Regency Centers

Soil Vapor Intrusion Investigation Summary

Carmel ShopRite Plaza
180 Gleneida Avenue
Carmel, New York
NYSDEC Site Number V00104

August 24, 2026

Version 2.0

Soil Vapor Intrusion Investigation Summary, Version 2.0

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Carmel, New York
NYSDEC Site Number V00104

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Acronyms

AGV air guidance values
COC constituent of concern
DUSR Data Usability Summary Report
EC Engineering Control
EPA United States Environmental Protection Agency
ft feet
fbg feet below grade
GES Groundwater & Environmental Services, Inc.
L/min liters per minute
MGD multi-gas detector
NYSDEC New York State Department of Environmental Conservation
NYSDOH New York State Department of Health
ppb parts per billion
ppm parts per million
PID Photoionization Detector
PCE Tetrachloroethene
SMP Site Management Plan
SVE Soil Vapor Extraction
SVI Soil Vapor Intrusion
SSD Sub-slab depressurization system
TCE Trichloroethene
VOCs Volatile Organic Compounds
µg/m^3 Micrograms Per Cubic Meter
1,1-DCE 1,1-Dichloroethene
1,1,1-TCA 1,1,1-Trichloroethane
c12-DCE Cis-1,2-Dichloroethene

1 Introduction

Groundwater & Environmental Services, Inc. (GES) has prepared this *Soil Vapor Intrusion Investigation Summary* report outlining the Soil Vapor Intrusion (SVI) investigation activities completed at the Carmel ShopRite Plaza located at 180 Gleneida Avenue (Route 52) in Carmel, New York (the site) in December 2024. The site is managed under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Program #V00104. A Site Location Map is included as **Figure 1** and a Site Map showing pertinent site features is included as **Figure 2**.

The SVI investigation activities performed by GES were limited to four (4) tenant spaces (#170, #174, #176, and #178 Route 52, Carmel, New York) that currently have active sub-slab depressurization (SSD) systems installed. SVI investigation activities were completed in accordance with the revised December 22, 2023 SVI Work Plan approved by the NYSDEC on January 10, 2024. The investigation activities were also completed in accordance with the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York,* dated October 2006, and Updates to Soil Vapor/Indoor Air Decision Matrices A through C, dated May 2017, for chlorinated constituents of concern, and Matrices D through F, dated February 2024, for petroleum constituents of concern.

A *Soil Vapor Instrusion Investigation Summary Report*, dated July 31, 2024 was submitted to the NYSDEC and NYSDOH following the completion of the first SVI event during the 2023/2024 heating season. A NYSDEC letter, dated October 3, 2024, requested additional sampling during the 2024/2025 heating season. In response, a second SVI event was conducted for the purpose of additional evaluation of the current sub-slab vapor and indoor air quality at the four (4) tenant spaces (#170, #174, #176, and #178) as well as evaluating the potential for SVI in the tenant spaces in support of decommissioning the SSD systems. The sub-slab vapor and indoor air sampling locations are shown on **Figure 3**.

Version 1.0 of the *Soil Vapor Intrusion Summary Report (Report)* was submitted to NYSDEC and NYSDOH on January 24, 2025. The NYSDEC, in communication with NYSDOH, disapproved the *Report* in a letter dated April 25, 2025. A copy of the letter is included as **Appendix A**.

On May 27, 2025, GES, Regency Centers, NYSDEC, and NYSDOH discussed the *Report* disapproval and site history. A *SVI Summary Report Follow-up* memo was prepared and submitted to NYSDEC and NYSDOH following the May 27, 2025 discussion, summarizing the historical site data and SSD System performance. Included in the memo were revised recommendations for the operation of the SSD System and future SVI investigation events. A copy of the memo is included as **Appendix A**.

In an email dated July 17, 2025, the NYSDEC approved the request to shut down and cap the three (3) SSD systems at Europa Pizza, Chic Nail & Spa, and Chinatown Restaurant tenant spaces. Additionally, the NYSDEC confirmed a SVI investigation shall be completed at all four (4) tenant spaces at the site during the 2025/2026 heating season with the one (1) remaining SSD system at Electric Paradise Tanning shut down 30 days prior to sampling. A copy of the email is included as **Appendix A**.

On August 22, 2025, the SSD systems at Europa Pizza, Chic Nail & Spa, and Chinatown Restaurant tenant spaces were shutdown following NYSDEC approval. The electric breakers for the SSD system fans were turned to the off position, and the SSD system exhaust ports were capped. The SSD system fan at the Electric Paradise Tanning tenant space remained operational.

2 Site Information

2.1 Site Location

The site is located in the Town of Carmel, County of Putnam, State of New York and is identified as Tax Map Number 44.9-1-9 on the Putnam County Tax Map. The site is located on a 19-acre parcel of land developed with three (3) commercial buildings and an asphalt parking lot. The three (3) commercial buildings are comprised of approximately twenty (20) tenant spaces that are primarily utilized as large retail businesses (supermarket, pharmacy), restaurants, salons, and small specialty shops.

The immediate vicinity of the site is predominantly surrounded by undeveloped land and roadways. Other properties in the vicinity of the site include:

- North*:* Commercial properties, including a monument maker for the neighboring cemetery.
- Northeast: Commercial properties, including a gas station.
- South: Commercial properties, including a strip mall.
- West: Cemetery
- East: Apartment complex

2.2 Current Use

The current tenants at the four (4) tenant spaces (#170, #174, #176, and #178 Route 52, Carmel, New York) evaluated as part of the SVI investigation include:

- 170 Route 52 – Chinatown Restaurant – 1,600 square foot tenant space occupied by a restaurant.
- 174 Route 52 – Electric Paradise Tanning – 1,200 square foot tenant space occupied by a tanning salon.
- 176 Route 52 – Chic Nail & Spa – 2,000 square foot tenant space occupied by a nail salon.
- 178 Route 52 – Europa Pizza – 2,000 square foot tenant space occupied by a restaurant.

SSD systems historically operated at Europa Pizza, Chic Nail & Spa, and Chinatown Restaurant tenant spaces utilizing a RadonAway® HS-5000 fan and were shut down in August 2025. A SSD system is currently operational at the Electric Paradise Tanning tenant space and utilizes a RadonAway® RP-265 Fan.

2.3 Remediation History

Lauren's Dry Cleaner and A&A Cleaners are noted as the historic tenants of concern in the shopping center and their historical operations resulted in Tetrachloroethene (PCE) contamination at the site. Site investigation activities were conducted between 1994 and 2004. During the investigation, a source area was identified beneath the concrete slab of the dry cleaner tenant space. The source area dimensions were noted as approximately 8 feet (ft) by 12 ft, to a depth of approximately 3 to 4 feet below grade (fbg). Approximately 49.66 tons of PCE impacted soil was excavated and removed for disposal off-site. Confirmation soil borings were completed subsequent to the excavation activities and indicated the presence of residual PCE contamination beneath the building slab. A soil vapor extraction (SVE) system was installed to remediate the residual PCE impacted soil. The SVE system was shut down when monitoring of the SVE system indicated that remediation of the PCE impacted soils was complete. Following the SVE system deactivation, SSD systems were installed in 2010 for the purpose of preventing potential residual contamination of PCE beneath the concrete slab from impacting indoor air quality. A deed restriction was executed and recorded to restrict land use and prevent future exposure to any contamination remaining at the site. A Site Management Plan (SMP) is also in place for the long term management of remaining contamination with the SSD systems acting as the engineering control (EC) for the specific tenant spaces.

3 Scope of Work

All activities described in this report were completed in accordance with published NYSDOH guidance for evaluating SVI in the State of New York. This effort was undertaken to determine the actions recommended to address current and potential exposures related to SVI as outlined in the Soil Vapor/Indoor Air Matrices A through C (May 2017) and Matrices D through F (February 2024). SVI investigation activities were also completed in accordance with the revised December 22, 2023 SVI Work Plan approved by the NYSDEC on January 10, 2024.

Field activities included SSD system shutdown, verifying the integrity of the existing sub-slab vapor points (which were installed by GES on January 31, and February 1, 2024), building and chemical inventory, and collection of sub-slab soil vapor and indoor air samples over an 8-hour period from designated sampling points within the four (4) designated tenant spaces.

The sub-slab vapor point locations are illustrated on **Figure 3** and summarized in the table below.

Table 1 – Sub-Slab Vapor Point Locations

Tenant Space Location	Sub-Slab Vapor Point ID
178 Route 52 – Europa Pizza	SS-1
	SS-2
176 Route 52 – Chic Nail & Spa	SS-3
	SS-4
174 Route 52 – Electric Paradise Tanning	SS-5
	SS-6
170 Route 52 – Chinatown Restaurant	SS-7
	SS-8

4 Pre-Sampling Requirements

4.1 SSD System Shutdown

On October 13, 2025, the SSD system at #174 Route 52, Carmel, NY (Electric Paradise Tanning) was temporarily shut down. The electric breaker for the SSD system fan was turned to the off position, and the SSD system exhaust port was capped. The SSD systems at the other three (3) tenant spaces (#170, #176, and #178 Route 52, Carmel, New York) were previously shut down with exhaust ports capped on August 22, 2025.

4.2 Pre-sampling Inspection and Preparation of Properties

On November 17, 2025, GES conducted a pre-sampling inspection at four (4) tenant spaces (#170, #174, #176, and #178 Route 52, Carmel, New York) to verify the floor layout, physical building conditions, and potential sources of volatile organic compounds (VOCs) that may be present within each tenant space that may affect or interfere with the planned sampling activities. Each of the tenant spaces were screened with a photoionization detector (PID) and inspected for products that potentially contain or are known to contain VOCs.

The NYSDOH *Indoor Air Quality Questionnaire and Building Inventory* Forms are provided in **Appendix B**.

4.2.1 Product Inventories

In accordance with the 2006 NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* document, GES completed a product inventory survey to document any potential or known sources of VOCs that may be present within each tenant's space during sample collection. Items that were evaluated during the product inventory survey included, although were not limited to, the use and/or storage of chemical products. The NYSDOH *Indoor Air Quality Questionnaire and Building Inventory* includes a Product Inventory Form which is provided in **Appendix B**.

Photographs of the products included on the Product Inventory Form are also provided in **Appendix B**.

A Product Inventory Form was completed for each tenant space and includes the product location, description, size, condition, chemical ingredients, and field instrumentation reading. Field instrumentation readings were collected using a ppbRAE 3000 PID equipped with a 10.6 eV bulb. The ppbRAE 3000 PID was calibrated prior to use with 10 parts per million (ppm) isobutylene calibration gas and passed calibration. Field instrument screening indicated 0.0 part per billion (ppb) for each product included on the Product Inventory Form.

4.2.2 Quality Assurance/Quality Control

On November 17, 2025, GES verified the integrity of the sub-slab vapor points using a helium tracer gas to test the seal. Each sub-slab location was then purged three (3) times the volume of the sampling point using a GILIAN personal air sampling system and a flow module (vacuum pump), which was set at a maximum flow rate of 0.2 liters per minute (L/min). Helium tracer gas was subsequently applied to the atmosphere (contained within a helium shroud) to confirm that an adequate seal was in place at all sub-slab vapor points. A helium multi-gas detector (MGD 2002) was used to verify all sub-slab vapor points. Additionally, a ppbRAE 3000 PID was utilized to screen soil gas concentrations via the sub-slab vapor point.

Each tenant space was also screened with a PID to measure background. The screening results are summarized in the table below:

Table 2 – Screening Results

Tenant Space Location	Sample Date	Sample ID	PID Reading (ppb)	Helium Trace Reading (ppm)	Background (ppb)
178 Route 52 – Europa Pizza	11/17/2025	SS-1	1,631	0	780
	11/17/2025	SS-2	1,649	0	
	11/17/2025	IA-1	780	--	
	11/17/2025	IA-2	780	--	
176 Route 52 – Chic Nails	11/17/2025	SS-3	1,472	0	11,780
	11/17/2025	SS-4	2,084	0	
	11/17/2025	IA-3	11,780	--	
	11/17/2025	IA-4	11,780	--	
174 Route 52 – Electric Paradise Tanning	11/17/2025	SS-5	318	0	480
	11/17/2025	SS-6	275	0	
	11/17/2025	IA-5	480	--	
	11/17/2025	IA-6	480	--	
170 Route 52 – Chinatown Restaurant	11/17/2025	SS-7	1,255	0	206
	11/17/2025	SS-8	843	0	
	11/17/2025	IA-7	206	--	
	11/17/2025	IA-8	206	--	
Outdoor	11/17/2025	OA-1	7	--	--
	11/17/2025	OA-2	13	--	

Notes:
ppb- parts per billion
ppm- parts per million

A photolog illustrating the PID and helium multi-gas detector results is provided in **Appendix C**.

5 Soil Vapor Intrusion Sampling

5.1 Sampling Event

On November 18, 2025, GES collected eight (8) sub-slab vapor samples, eight (8) indoor air samples, and two (2) outdoor air samples. One (1) duplicate sub-slab vapor sample and one (1) duplicate indoor air sample was also collected. All samples were collected concurrently, and

indoor air samples were co-located with the same numbered sub-slab sample (i.e., indoor air sample IA-1 was located above the slab adjacent to sub-slab vapor sample SS-1). Samples were collected in accordance with the revised December 22, 2023 SVI Work Plan approved by the NYSDEC on January 10, 2024.

The approximate locations of each sample are depicted on **Figure 3** and summarized on the table below:

Table 3 – Sampling Summary

Tenant Space Location	Sample Date	Sample ID	Sample Type
178 Route 52 – Europa Pizza	11/18/2025	SS-1	Soil Vapor
	11/18/2025	IA-1	Indoor Air
	11/18/2025	SS-2	Soil Vapor
	11/18/2025	IA-2	Indoor Air
176 Route 52 – Chic Nail & Spa	11/18/2025	SS-3	Soil Vapor
	11/18/2025	IA-3	Indoor Air
	11/18/2025	SS-4	Soil Vapor
	11/18/2025	IA-4	Indoor Air
174 Route 52 – Electric Paradise Tanning	11/18/2025	SS-5	Soil Vapor
	11/18/2025	IA-5	Indoor Air
	11/18/2025	SS-6	Soil Vapor
	11/18/2025	IA-6	Indoor Air
	11/18/2025	DUP (SS-5)	Soil Vapor
	11/18/2025	DUP (IA-6)	Indoor Air
170 Route 52 – Chinatown Restaurant	11/18/2025	SS-7	Soil Vapor
	11/18/2025	IA-7	Indoor Air
	11/18/2025	SS-8	Soil Vapor
	11/18/2025	IA-8	Indoor Air
Outdoor	11/18/2025	OA-1	Ambient Air
	11/18/2025	OA-2	Ambient Air

5.2 Sample Collection

All sub-slab, indoor, and outdoor air samples were collected over an 8-hour period using laboratory supplied, batch-certified, 6-liter SUMMA canisters equipped with 8-hour regulators. Upon completion of the 8-hour sampling period, each sample collection apparatus was stored according to the sample collection methodology set by the laboratory and delivered to SGS North

America, Inc. of Dayton, New Jersey under proper chain of custody for analysis of VOCs via United States Environmental Protection Agency (EPA) Method TO-15.

5.3 Sample Integrity

Duplicate samples were collected for both sub-slab and indoor air samples at sub-slab vapor sample SS-5 and indoor air sample IA-5. All summa canister samples were received by the laboratory in good condition and within sample holding time.

5.4 SSD System Restart

The SSD system at #174 Route 52, Carmel, NY (Electric Paradise Tanning) was restarted on November 19, 2025 following the completion of sample collection activities. The SSD systems at the other three (3) tenant spaces (#170, #176, and #178 Route 52, Carmel, NY) remaine offline.

6 Results

Laboratory analytical results indicated the presence of individual VOCs above laboratory reporting limits and/or above regulatory guidelines in sub-slab vapor samples, indoor air samples, and outdoor air samples. The analytical data is summarized on **Table 4** and the laboratory analytical reports are included in **Appendix D**. In addition, a data usability summary report (*DUSR*) was completed by Groundwater and Environmental Services Environmental Informatics Group, of Blacksburg, Virginia. The data usability evaluation verified all results acceptable for use. Data validation qualifiers were assigned to various analytes due to compliance issues as outlined on Table 1 of the *DUSR*. A copy of the *DUSR* is provided in **Appendix E.**

The following compounds exceeded regulatory guidelines in one (1) or more indoor air samples, based on the upper fence indoor air values in Appendix C of the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* document.

- Acetone (2-Propanone)
- Chloroform
- Methyl methacrylate
- Trichloroethylene

Compounds for all indoor air samples were below the NYSDOH Air Guideline Values (AGVs) from Table 3.1 of the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* document.

The upper fence indoor air values and AGVs pertain to indoor air samples only, not sub-slab vapor samples.

Laboratory analytical results for select constituents of concern (COC) were then compared to the Updates to Soil Vapor/Indoor Air Decision Matrices A through C, dated May 2017, and Matrices D through F, dated February 2024 (attached as **Appendix F**).

A summary of the COC and the matrix recommendation by tenant space are detailed below:

6.1 178 Route 52 – Europa Pizza

6.1.1 SS-1 and IA-1

- Concentrations of Matrix A COC [1,1-dichloroethene (1,1-DCE), carbon tetrachloride, cis-1,2-dichloroethene (c12-DCE), and trichloroethene (TCE) ranged from non-detect to 0.50 micrograms per cubic meter (µg/m^3) (carbon tetrachloride, IA-1) and result in a *No Further Action* recommendation.
- Concentrations of Matrix B COC [1,1,1-trichloroethane (1,1,1-TCA), methylene chloride, and PCE] ranged from non-detect to 1.6 µg/m^3 (PCE, SS-1) and result in a *No Further Action* recommendation.
- Concentrations of Matrix C COC (vinyl chloride) were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix D COC (benzene, cyclohexane, ethylbenzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2,2,4-trimethylpentane, and o-xylene) ranged from non-detect to 2.1 µg/m^3 (benzene, IA-1) and result in a *No Further Action* recommendation.
- Concentrations of Matrix E COC (heptane, hexane, and m,p-xylene) ranged from 0.69 µg/m^3 (m,p-xylene, IA-1) to 9.8 µg/m^3 (heptane, IA-1) and result in a *No Further Action* recommendation.
- Concentrations of Matrix F COC (toluene) ranged from 2.4 µg/m^3 (IA-1) to 3.1 µg/m^3 (SS-1) and result in a *No Further Action* recommendation.

6.1.2 SS-2 and IA-2

- Concentrations of Matrix A COC ranged from non-detect to 0.51 µg/m^3 (carbon tetrachloride, IA-2) and result in a *No Further Action* recommendation.
- Concentrations of Matrix B COC ranged from non-detect to 4.7 µg/m^3 (PCE, SS-2) and result in a *No Further Action* recommendation.
- Concentrations of Matrix C COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix D COC ranged from non-detect to 5.4 µg/m^3 (benzene, IA-2) and result in a *No Further Action* recommendation.
- Concentrations of Matrix E COC ranged from non-detect to 7.0 µg/m^3 (heptane, IA-2) and result in a *No Further Action* recommendation.
- Concentrations of Matrix F COC ranged from 1.5 µg/m^3 (IA-2) to 2.8 µg/m^3 (SS-2) and result in a *No Further Action* recommendation.

The COC analytical data for Europa Pizza tenant space (#178 Route 52, Carmel, NY) is summarized on **Table 5**, **Table 6**, and **Figure 4**.

6.2 176 Route 52 – Chic Nail & Spa

6.2.1 SS-3 and IA-3

- Concentrations of Matrix A COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix B COC ranged from non-detect to 18 µg/m^3 (PCE, SS-3) and result in a *No Further Action* recommendation.
- Concentrations of Matrix C COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix D COC ranged from non-detect to 1.8 µg/m^3 (cyclohexane, IA-3) and result in a *No Further Action* recommendation.
- Concentrations of Matrix E COC ranged from 0.69 µg/m^3 (m,p-xylene, IA-3) to 76.6 µg/m^3 (heptane, IA-3) and result in an *Identify Source, Resample, or Mitigate* recommendation (heptane).
    - Heptane is likely sourced from nail salon operations.
- Concentrations of Matrix F COC ranged from 3.8 µg/m^3 (IA-3) to 4.9 µg/m^3 (SS-3) and result in a *No Further Action* recommendation.

6.2.2 SS-4 and IA-4

- Concentrations of Matrix A COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix B COC ranged from non-detect to 5.2 µg/m^3 (PCE, SS-4) and result in a *No Further Action* recommendation.
- Concentrations of Matrix C COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix D COC ranged from non-detect to 1.0 µg/m^3 (cyclohexane, IA-4) and result in a *No Further Action* recommendation.
- Concentrations of Matrix E COC ranged from non-detect to 40 µg/m^3 (heptane, IA-4) and result in an *Identify Source, Resample, or Mitigate* recommendation.
    - Heptane is likely sourced from the nail salon operations.
- Concentrations of Matrix F COC ranged from 2.9 µg/m^3 (IA-4) to 4.1 µg/m^3 (SS-4) and result in a *No Further Action* recommendation.

The COC analytical data for Carmel Nails tenant space (#176 Route 52, Carmel, NY) is summarized on **Table 5**, **Table 6**, and **Figure 4**.

6.3 174 Route 52 – Electric Paradise Tanning

6.3.1 SS-5 and IA-5

- Concentrations of Matrix A COC ranged from non-detect to 17 µg/m^3 (TCE, SS-5) and result in a ***Mitigate*** recommendation (TCE).
- Concentrations of Matrix B COC ranged from non-detect to 11 µg/m^3 [PCE, SS-5 and SS-5 (DUP)] and result in a *No Further Action* recommendation.
- Concentrations of Matrix C COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix D COC ranged from non-detect to 1.5 µg/m^3 [benzene, IA-5, SS-5, and SS-5 (DUP)] and result in a *No Further Action* recommendation.
- Concentrations of Matrix E COC ranged from 0.69 µg/m^3 (m,p-xylene, IA-5) to 25 µg/m^3 (heptane, SS-5) and result in a *No Further Action* recommendation.
- Concentrations of Matrix F COC ranged from 1.4 µg/m^3 (IA-5) to 3.0 µg/m^3 (SS-5 and SS-5 (DUP)) and result in a *No Further Action* recommendation.

6.3.2 SS-6 and IA-6

- Concentrations of Matrix A COC ranged from non-detect to 1.0 µg/m^3 (carbon tetrachloride, IA-6) and result in a *No Further Action* recommendation.
    - The recommendation of *No Further Action* is based on the indoor air concentration at sample location IA-6 of 1.0 µg/m^3 for carbon tetrachloride with consideration that the duplicate sample location IA-6 (DUP) had a concentration of 0.63 µg/m^3 for carbon tetrachloride and the ambient air sample location OA-1 had a concentration of 0.48 µg/m^3 for carbon tetrachloride. Based on the detection in ambient air (OA-1) and the duplicate sample location with a concentration of carbon tetrachloride of less than 1.0 µg/m^3, a recommendation of *No Further Action* is reasonable.
- Concentrations of Matrix B COC ranged from non-detect to 214 µg/m^3 (PCE, SS-6) and result in a *No Further Action* recommendation.
- Concentrations of Matrix C COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix D COC ranged from non-detect to 2.0 µg/m^3 (benzene, IA-6) and result in a *No Further Action* recommendation.
- Concentrations of Matrix E COC ranged from non-detect to 12 µg/m^3 [heptane, IA-6 (DUP)] and result in a *No Further Action* recommendation.
- Concentrations of Matrix F COC ranged from 2.3 µg/m^3 [IA-6 (DUP)] to 3.8 µg/m^3 (SS-6) and result in a *No Further Action* recommendation.

The COC analytical data for Electric Paradise Tanning (tenant space #174 Route 52, Carmel, NY) is summarized on **Table 5**, **Table 6**, and **Figure 4**.

6.4 170 Route 52 – Chinatown Restaurant

6.4.1 SS-7 and IA-7

- Concentrations of Matrix A COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix B COC ranged from non-detect to 19 µg/m^3 (PCE, SS-7) and result in a *No Further Action* recommendation.
- Concentrations of Matrix C COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix D COC ranged from non-detect to 0.96 µg/m^3 (o-xylene, SS-7) and result in a *No Further Action* recommendation.
- Concentrations of Matrix E COC ranged from 0.81 µg/m^3 (hexane, SS-7) to 2.2 µg/m^3 (m,p-xylene, SS-7) and result in a *No Further Action* recommendation.
- Concentrations of Matrix F COC ranged from 0.90 µg/m^3 (IA-7) to 2.2 µg/m^3 (SS-7) and result in a *No Further Action* recommendation.

6.4.2 SS-8 and IA-8

- Concentrations of Matrix A COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix B COC ranged from non-detect to 4.5 µg/m^3 (PCE, SS-8) and result in a *No Further Action* recommendation.
- Concentrations of Matrix C COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix D COC were non-detect and result in a *No Further Action* recommendation.
- Concentrations of Matrix E COC ranged from non-detect to 1.6 µg/m^3 (m,p-xylene, SS-8) and result in a *No Further Action* recommendation.
- Concentrations of Matrix F COC ranged from non-detect to 1.7 µg/m^3 (SS-8) and result in a *No Further Action* recommendation.

The COC analytical data for Chinatown Restaurant tenant space (#170 Route 52, Carmel, NY) is summarized on **Table 5**, **Table 6**, and **Figure 4**.

7 Trends

Three (3) soil vapor intrusion sampling events and one (1) indoor air sampling event have been completed at the site between March 2024 and November 2025. Trend graphs were compiled to

illustrate the indoor air concentrations and sub-slab vapor concentrations at select COCs at the tenant spaces over this time period. Each individual tenant space COC trends for both indoor air and sub-slab vapor are depicted on **Figure 5** (#170, 176, 178 Route 52) and **Figure 6** (#174 Route 52). COC trends for indoor air and COC trends for sub-slab vapor at all tenant spaces are depicted on **Figure 7A** through **7D**.

7.1 178 Route 52 – Europa Pizza Trend Graph

The indoor air and sub-slab vapor concentrations for select COCs (carbon tetrachloride, methylene chloride, PCE, and TCE) at the Europa Pizza tenant space were graphed as shown in **Figure 5**.

- Carbon tetrachloride: stable or decreasing trends at all indoor air (IA-1 and IA-2) and sub-slab (SS-1 and SS-2) sample locations (**Figure 7A**).
- Methylene chloride: decreasing trends at indoor air sample location IA-2 and sub-slab sample location SS-1, however, increasing trends at indoor air sample location IA-1 and sub-slab sample location SS-2 (**Figure 7B**).
    - Although increasing trends, indoor air concentrations at sample location IA-1 are below the minimum threshold of less than 3 µg/m^3 (for Matrix B analytes) and sub-slab concentrations at sample location SS-2 are below the minimum threshold of less than 100 µg/m^3 (for Matrix B analytes).
- PCE: stable trends at all indoor air (IA-1 and IA-2) sample locations and decreasing trends at sub-slab (SS-1 and SS-2) sample locations (**Figure 7C**).
- TCE: stable or decreasing trends at all indoor air (IA-1 and IA-2) and sub-slab (SS-1 and SS-2) sample locations (**Figure 7D**).

The SSDS fan at the Europa Pizza tenant space was offline for approximately 3 months prior to the November 2025 sampling event. Based on the above trends, there does not appear to be rebound of COC contaminants in the tenant space following shutdown of the SSDS fan.

7.2 176 Route 52 – Chic Nail & Spa Trend Graph

The indoor air and sub-slab vapor concentrations for select COCs (carbon tetrachloride, methylene chloride, PCE, and TCE) at the Chic Nail & Spa tenant space were graphed as shown in **Figure 5.**.

- Carbon tetrachloride: stable trends at all indoor air (IA-3 and IA-4) and sub-slab (SS-3 and SS-4) sample locations (**Figure 7A**).
- Methylene chloride: stable trends at all indoor air (IA-3 and IA-4) and sub-slab (SS-3 and SS-4) sample locations (**Figure 7B**).
- PCE: stable trends at all indoor air (IA-3 and IA-4) sample locations and decreasing trends at sub-slab (SS-3 and SS-4) sample locations (**Figure 7C**).
- TCE: stable trends at all indoor air (IA-3 and IA-4) and sub-slab (SS-3 and SS-4) sample locations (**Figure 7D**).

Trends are considered stable for the COCs listed above based on the three (3) data points utilized, however, as illustrated in **Figure 5**, the concentrations at select sampling locations increased in December 2024. The concentrations decreased between December 2024 and November 2025 despite the SSDS fan shutdown approximately 3 months prior to the November 2025 sampling event. Based on these trends, there does not appear to be rebound of COC contaminants in the tenant space following shutdown of the SSDS fan.

7.3 174 Route 52 – Electric Paradise Tanning Trend Graph

The indoor air and sub-slab vapor concentrations for select COCs (carbon tetrachloride, methylene chloride, PCE, and TCE) at the Electric Paradise Tanning tenant space were graphed separately as shown in **Figure 6**.

Due to the sampling error at indoor air sample location IA-5 and sub-slab vapor sample location SS-5 in March 2024, the March 2024 sampling event data at Electric Paradise Tanning was not utilized for the trend graphs. An indoor air sampling event at sample locations IA-5 and IA-6 only was completed in June 2024 and is utilized in the trend graph to provide three (3) data points (June 2024, December 2024, and November 2025). However, since the sub-slab vapor was not resampled, only two (2) data points (December 2024 and November 2025) are available and cannot determine a trend. The indoor air concentration trends for select COCs are detailed below.

- Carbon tetrachloride: increasing trends at all indoor air (IA-5 and IA-6) sample locations (**Figure 7A**).
    - Although increasing trends at indoor air sample location IA-6, when compared to the duplicate sample location at IA-6 for the November 2025 sampling event, the trends are stable.
- Methylene chloride: stable trend at indoor air sample location IA-6 and increasing trend at indoor air sample location IA-5 (**Figure 7B**).
    - Although increasing trends, indoor air concentrations at sample location IA-5 are below the minimum threshold of less than 3 µg/m^3 (for Matrix B analytes).
- PCE: increasing trends at all indoor air (IA-5 and IA-6) sample locations (**Figure 7C**).
    - Although increasing trends, indoor air concentrations at sample locations IA-5 and IA-6 are below the minimum threshold of less than 3 µg/m^3 (for Matrix B analytes).
- TCE: stable trend at indoor air sample location IA-6 and increasing trend at indoor air sample location IA-5 (**Figure 7D**).

The November 2025 sampling event concentrations of TCE at indoor air sample location IA-5 were above the maximum threshold of greater than or equal to 1 µg/m^3 (for Matrix A analytes) and have illustrated increasing trends between June 2024 and November 2025. Therefore, further investigation into potential sources of indoor air contamination or continued mitigation via SSDS fan operation is warranted.

Although a trend graph with three (3) data points is not available for the sub-slab vapor samples at sample location SS-5 and SS-6, the concentrations of select COCs (carbon tetrachloride,

methylene chloride, PCE, and TCE) did decrease or remain the same between December 2024 and November 2025.

7.4 170 Route 52 – Chinatown Restaurant Trend Graph

The indoor air and sub-slab vapor concentrations for select COCs (carbon tetrachloride, methylene chloride, PCE, and TCE) at the Chinatown Restaurant tenant space were graphed as shown in **Figure 5**.

- Carbon tetrachloride: stable trends at all indoor air (IA-7 and IA-8) and sub-slab (SS-7 and SS-8) sample locations (**Figure 7A**).
- Methylene chloride: stable trends at sub-slab sample location SS-8, decreasing trends at indoor air sample location IA-7, and increasing trends at indoor air sample location IA-8 and sub-slab sample location SS-7 (**Figure 7B**).
    - Although increasing trends, indoor air concentrations at sample location IA-8 are below the minimum threshold of less than 3 µg/m^3 (for Matrix B analytes) and sub-slab concentrations at sample location SS-7 are below the minimum threshold of less than 100 µg/m^3 (for Matrix B analytes).
- PCE: stable trends at indoor air sample location IA-7 and sub-slab sample location SS-8, decreasing trends at indoor air sample location IA-8 and increasing trends at sub-slab sample location SS-7 (**Figure 7C**).
    - Although increasing trends, sub-slab concentrations at sample location SS-7 are below the minimum threshold of less than 100 µg/m^3 (for Matrix B analytes).
- TCE: stable trends at indoor air sample location IA-8 and sub-slab sample locations SS-7 and SS-8 and decreasing trends at indoor air sample location IA-7 (**Figure 7D**).

The SSDS fan at the Chinatown Restaurant tenant space was offline for approximately 3 months prior to the November 2025 sampling event. Overall trends do not indicate rebound of COC contaminants at the tenant space following shutdown of the SSDS fan.

8 Summary & Recommendations

On November 17 and 18, 2025, an additional SVI sampling event was completed at the Carmel ShopRite Plaza (NYSDEC Site Number V00104) at tenant spaces #170, #174, #176, and #178 Route 52, Carmel, NY in accordance with the NYSDEC letter dated October 3, 2024. This investigation was conducted for the purpose of evaluating current sub-slab soil vapor and indoor air quality as well as evaluating the potential for SVI in the tenant spaces in support of decommissioning the SSD systems.

- Ambient screening results indicate the presence of VOCs measured using a PID, in all four (4) of the four (4) tenant spaces during the pre-sampling screening completed on November 17, 2025. PID readings ranged from 206 ppb (Chinatown Restaurant) to 11,780 ppb (Chic Nails & Spa).

- Two (2) of the four (4) tenant spaces contained at least one (1) product contributing to the presence of VOCs in the indoor air, with the highest background observed in Chic Nails & Spa (11,780 ppb). Typical nail salon products were in use during the pre-sampling and sampling activities; this has affected the results of the SVI event.
    - The detections of acetone, isopropyl alcohol, ethanol, and ethyl acetate were higher than expected. To minimize any exposure to chemicals used in daily business practices, please ensure that all containers are properly seal and stored, and that products are used with adequate ventilation.
- Outdoor control samples contained detections of VOCs, a number of which were detected in indoor air samples. The outdoor air sample detections included: acetone (2-propanone); benzene; chloromethane; carbon tetrachloride; dichlorodifluoromethane; ethanol; ethyl acetate; hexane; isopropyl alcohol; methylene chloride; toluene; and trichlorofluoromethane. These same compounds were also detected in samples collected from tenant spaces.

Based on the NYSDEC Soil Vapor/Indoor Air Decision Matrices A through C comparison, a ***No Further Action*** recommendation for all locations resulted with the exception of Electric Paradise Tanning (#174 Route 52, Carmel, NY). This outcome was based on the detection of TCE at IA-5 (1.7 µg/m^3)/SS-5 (17 µg/m^3) which resulted in a recommendation of ***Mitigate***.

As discussed in Section 7, the SVI sampling events completed between March 2024 and November 2025 were evaluated via trend graphs to determine if rebound is evident following the SSDS fan shutdown at the three (3) tenant spaces (#170, #176, and #178 Route 52, Carmel, New York) in August 2025. The trend graphs illustrate that select COCs are generally stable or decreasing between March 2024 and November 2025, and if they have increasing trends, they are below the NYSDEC Soil Vapor/Indoor Air Decision Matrices minimum threshold or have decreased in concentration since SSDS fan shutdown.

Based on the above, the SSDS fan at the three (3) tenant spaces (#170, #176, and #178 Route 52, Carmel, New York) will remain offline and the SSDS fan at the one (1) tenant space (#174 Route 52, Carmel, New York) will remain operational. An SVI investigation will be completed during the 2026/2027 heating season to evaluate if the Electric Paradise Tanning Salon tenant space (#174 Route 52, Carmel, New York) SSDS can be shutdown.

The following recommendations are proposed at this time based on the results of the SVI sampling events:

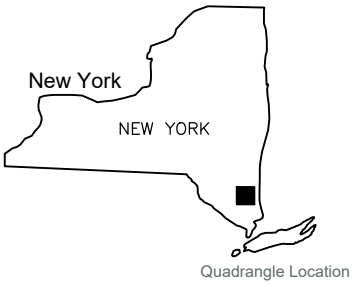
Table 7 – Recommendations

Tenant Space Location	Recommendation
178 Route 52 – Europa Pizza	The SSD system will remain offline and a final SVI sampling event (including sub-slab, indoor air) to monitor for rebound will be completed during the 2026/2027 heating season.
176 Route 52 – Chic Nails	The SSD system will remain offline and a final SVI sampling event (including sub-slab, indoor air) to monitor for rebound will be completed during the 2026/2027 heating season.
174 Route 52 – Electric Paradise Tanning Salon	Continue SSD operation. Complete an additional SVI sampling event to evaluate if the SSDS can be shutdown during the 2026/2027 heating season.
170 Route 52 – Chinatown Restaurant	The SSD system will remain offline and a final SVI sampling event (including sub-slab, indoor air) to monitor for rebound will be completed during the 2026/2027 heating season.

Figures



Source:
USGS 7.5 Minute Series
Topographic Quadrangle, 1981
Lake Carmel, New York
Contour Interval = 10'



Quadrangle Location

Site Location Map

Regency Centers
Carmel Shop Rite Center
180 Gleneida Avemue
Carmel, New York

Drawn
M.H.
Designed
P.M.
Approved

Date
01/21/24
Figure
1

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GES
Groundwater & Environmental Services, Inc.

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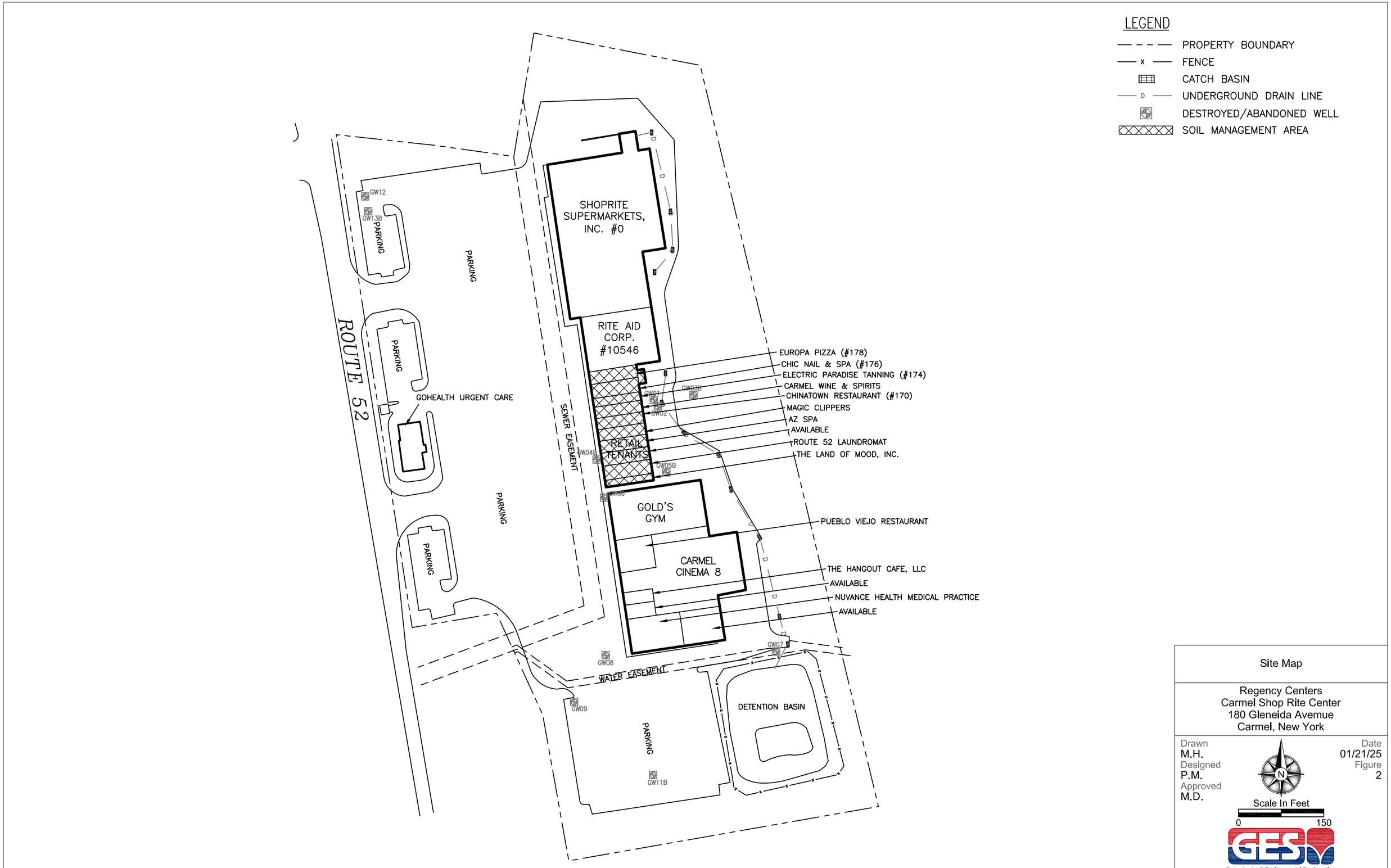

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RITE AID CORP.
#10546

EUROPA
PIZZA

CHIC NAIL & SPA

ELECTRIC
PARADISE
TANNING

CARMEL WINE &
SPIRITS

CHINATOWN
RESTAURANT

MAGIC
CLIPPERS

AZ SPA

AVAILABLE

ROUTE 52
LAUNDROMAT

SS-1/1A-1
SS-2/1A-2
SS-3/1A-3
SS-4/1A-4
SS-5/1A-5
DUPSS
SS-6/1A-6
DUP1A
SS-7/1A-7
SS-8/1A-8
OA-1
OA-2

LEGEND

- PROPERTY BOUNDARY
- FENCE
- CATCH BASIN
- UNDERGROUND DRAIN LINE
- SSDS SUCTION POINT
- OVERHEAD 3" PVC PIPING
- UNDERGROUND 6" PERFORATED PVC TRENCH
- HS-5000 FAN
- RP-265 FAN
- SUB-SLAB SAMPLING POINT
- OUTDOOR SAMPLING POINT

Sample Location Map

Regency Centers
Carmel Shop Rite Center
180 Gleneida Avemue
Carmel, New York

Drawn
M.H.
Designed
P.M.
Approved
M.D.

Date
01/21/25
Figure
3

Scale In Feet
0 20

Groundwater & Environmental Services, Inc.

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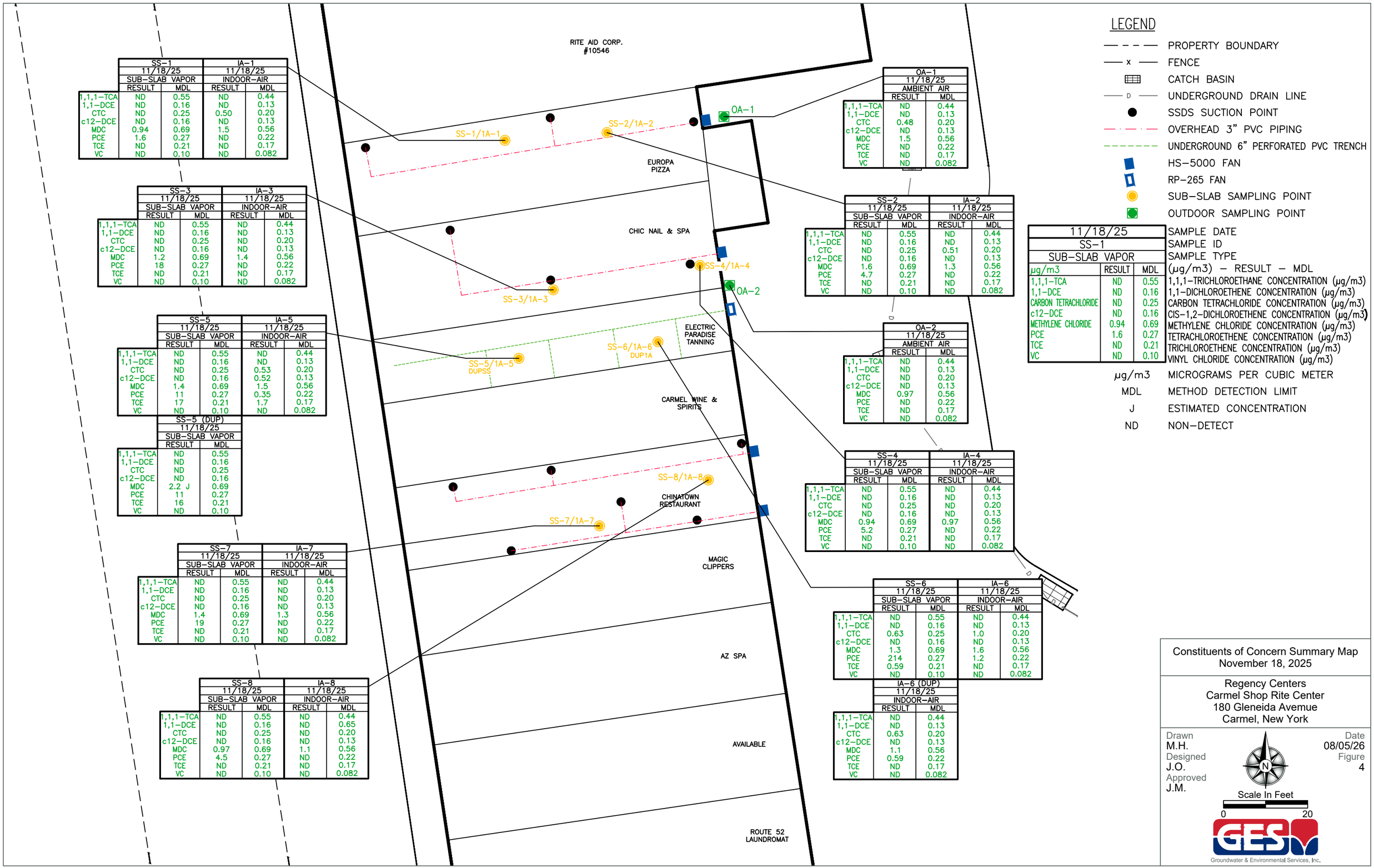

SS-1 11/18/25 SUB-SLAB VAPOR			IA-1 11/18/25 INDOOR-AIR	
	RESULT	MDL	RESULT	MDL
1,1,1-TCA	ND	0.55	ND	0.44
1,1-DCE	ND	0.16	ND	0.13
CTC	ND	0.25	0.50	0.20
c12-DCE	ND	0.16	ND	0.13
MDC	0.94	0.69	1.5	0.56
PCE	1.6	0.27	ND	0.22
TCE	ND	0.21	ND	0.17
VC	ND	0.10	ND	0.082

SS-3 11/18/25 SUB-SLAB VAPOR			IA-3 11/18/25 INDOOR-AIR	
	RESULT	MDL	RESULT	MDL
1,1,1-TCA	ND	0.55	ND	0.44
1,1-DCE	ND	0.16	ND	0.13
CTC	ND	0.25	ND	0.20
c12-DCE	ND	0.16	ND	0.13
MDC	1.2	0.69	1.4	0.56
PCE	18	0.27	ND	0.22
TCE	ND	0.21	ND	0.17
VC	ND	0.10	ND	0.082

SS-5 11/18/25 SUB-SLAB VAPOR			IA-5 11/18/25 INDOOR-AIR	
	RESULT	MDL	RESULT	MDL
1,1,1-TCA	ND	0.55	ND	0.44
1,1-DCE	ND	0.16	ND	0.13
CTC	ND	0.25	0.53	0.20
c12-DCE	ND	0.16	0.52	0.13
MDC	1.4	0.69	1.5	0.56
PCE	11	0.27	0.35	0.22
TCE	17	0.21	1.7	0.17
VC	ND	0.10	ND	0.082

SS-5 (DUP) 11/18/25 SUB-SLAB VAPOR		
	RESULT	MDL
1,1,1-TCA	ND	0.55
1,1-DCE	ND	0.16
CTC	ND	0.25
c12-DCE	ND	0.16
MDC	2.2 J	0.69
PCE	11	0.27
TCE	16	0.21
VC	ND	0.10

SS-7 11/18/25 SUB-SLAB VAPOR			IA-7 11/18/25 INDOOR-AIR	
	RESULT	MDL	RESULT	MDL
1,1,1-TCA	ND	0.55	ND	0.44
1,1-DCE	ND	0.16	ND	0.13
CTC	ND	0.25	ND	0.20
c12-DCE	ND	0.16	ND	0.13
MDC	1.4	0.69	1.3	0.56
PCE	19	0.27	ND	0.22
TCE	ND	0.21	ND	0.17
VC	ND	0.10	ND	0.082

SS-8 11/18/25 SUB-SLAB VAPOR			IA-8 11/18/25 INDOOR-AIR	
	RESULT	MDL	RESULT	MDL
1,1,1-TCA	ND	0.55	ND	0.44
1,1-DCE	ND	0.16	ND	0.65
CTC	ND	0.25	ND	0.20
c12-DCE	ND	0.16	ND	0.13
MDC	0.97	0.69	1.1	0.56
PCE	4.5	0.27	ND	0.22
TCE	ND	0.21	ND	0.17
VC	ND	0.10	ND	0.082

OA-1 11/18/25 AMBIENT AIR		
	RESULT	MDL
1,1,1-TCA	ND	0.44
1,1-DCE	ND	0.13
CTC	0.48	0.20
c12-DCE	ND	0.13
MDC	1.5	0.56
PCE	ND	0.22
TCE	ND	0.17
VC	ND	0.082

SS-2 11/18/25 SUB-SLAB VAPOR			IA-2 11/18/25 INDOOR-AIR	
	RESULT	MDL	RESULT	MDL
1,1,1-TCA	ND	0.55	ND	0.44
1,1-DCE	ND	0.16	ND	0.13
CTC	ND	0.25	0.51	0.20
c12-DCE	ND	0.16	ND	0.13
MDC	1.6	0.69	1.3	0.56
PCE	4.7	0.27	ND	0.22
TCE	ND	0.21	ND	0.17
VC	ND	0.10	ND	0.082

OA-2 11/18/25 AMBIENT AIR		
	RESULT	MDL
1,1,1-TCA	ND	0.44
1,1-DCE	ND	0.13
CTC	ND	0.20
c12-DCE	ND	0.13
MDC	0.97	0.56
PCE	ND	0.22
TCE	ND	0.17
VC	ND	0.082

SS-4 11/18/25 SUB-SLAB VAPOR			IA-4 11/18/25 INDOOR-AIR	
	RESULT	MDL	RESULT	MDL
1,1,1-TCA	ND	0.55	ND	0.44
1,1-DCE	ND	0.16	ND	0.13
CTC	ND	0.25	ND	0.20
c12-DCE	ND	0.16	ND	0.13
MDC	0.94	0.69	0.97	0.56
PCE	5.2	0.27	ND	0.22
TCE	ND	0.21	ND	0.17
VC	ND	0.10	ND	0.082

SS-6 11/18/25 SUB-SLAB VAPOR			IA-6 11/18/25 INDOOR-AIR	
	RESULT	MDL	RESULT	MDL
1,1,1-TCA	ND	0.55	ND	0.44
1,1-DCE	ND	0.16	ND	0.13
CTC	0.63	0.25	1.0	0.20
c12-DCE	ND	0.16	ND	0.13
MDC	1.3	0.69	1.6	0.56
PCE	214	0.27	1.2	0.22
TCE	0.59	0.21	ND	0.17
VC	ND	0.10	ND	0.082

IA-6 (DUP) 11/18/25 INDOOR-AIR		
	RESULT	MDL
1,1,1-TCA	ND	0.44
1,1-DCE	ND	0.13
CTC	0.63	0.20
c12-DCE	ND	0.13
MDC	1.1	0.56
PCE	0.59	0.22
TCE	ND	0.17
VC	ND	0.082

LEGEND

- PROPERTY BOUNDARY
- FENCE
- CATCH BASIN
- UNDERGROUND DRAIN LINE
- SSDS SUCTION POINT
- OVERHEAD 3" PVC PIPING
- UNDERGROUND 6" PERFORATED PVC TRENCH
- HS-5000 FAN
- RP-265 FAN
- SUB-SLAB SAMPLING POINT
- OUTDOOR SAMPLING POINT

11/18/25	
SS-1	SAMPLE ID
SUB-SLAB VAPOR	SAMPLE TYPE
µg/m3 RESULT MDL	(µg/m3) – RESULT – MDL
1,1,1-TCA ND 0.55	1,1,1-TRICHLOROETHANE CONCENTRATION (µg/m3)
1,1-DCE ND 0.16	1,1-DICHLOROETHENE CONCENTRATION (µg/m3)
CARBON TETRACHLORIDE ND 0.25	CARBON TETRACHLORIDE CONCENTRATION (µg/m3)
c12-DCE ND 0.16	CIS-1,2-DICHLOROETHENE CONCENTRATION (µg/m3)
METHYLENE CHLORIDE 0.94 0.69	METHYLENE CHLORIDE CONCENTRATION (µg/m3)
PCE 1.6 0.27	TETRACHLOROETHENE CONCENTRATION (µg/m3)
TCE ND 0.21	TRICHLOROETHENE CONCENTRATION (µg/m3)
VC ND 0.10	VINYL CHLORIDE CONCENTRATION (µg/m3)

µg/m3 MICROGRAMS PER CUBIC METER
MDL METHOD DETECTION LIMIT
J ESTIMATED CONCENTRATION
ND NON-DETECT

Constituents of Concern Summary Map
November 18, 2025

Regency Centers
Carmel Shop Rite Center
180 Gleneida Avemue
Carmel, New York

Drawn M.H.
Designed J.O.
Approved J.M.
Date 08/05/26
Figure 4

Scale In Feet
0 20

Groundwater & Environmental Services, Inc.

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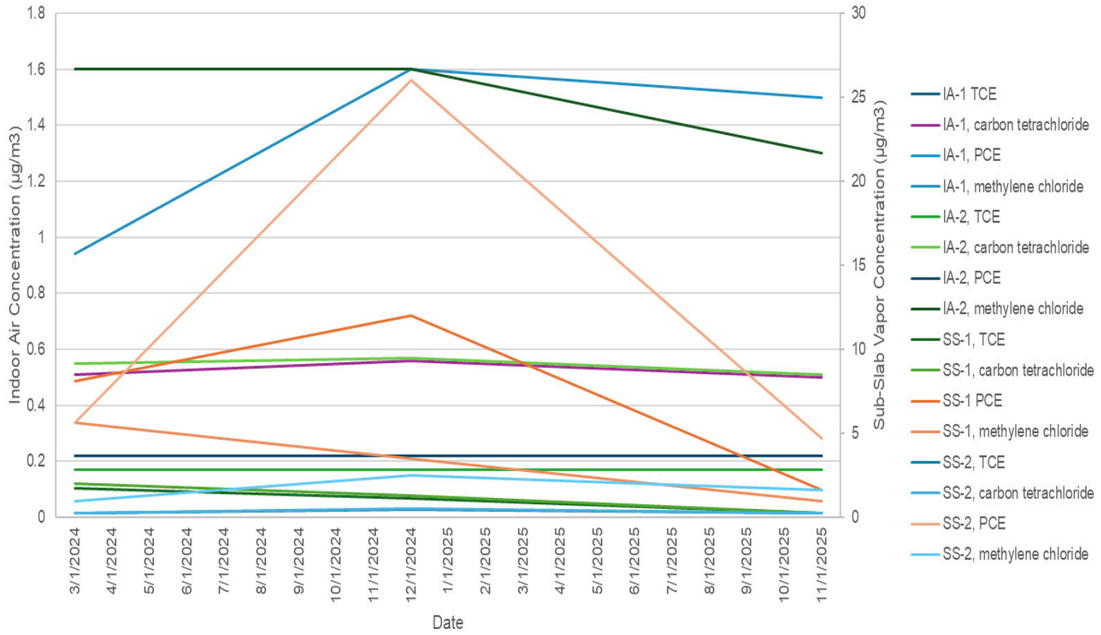
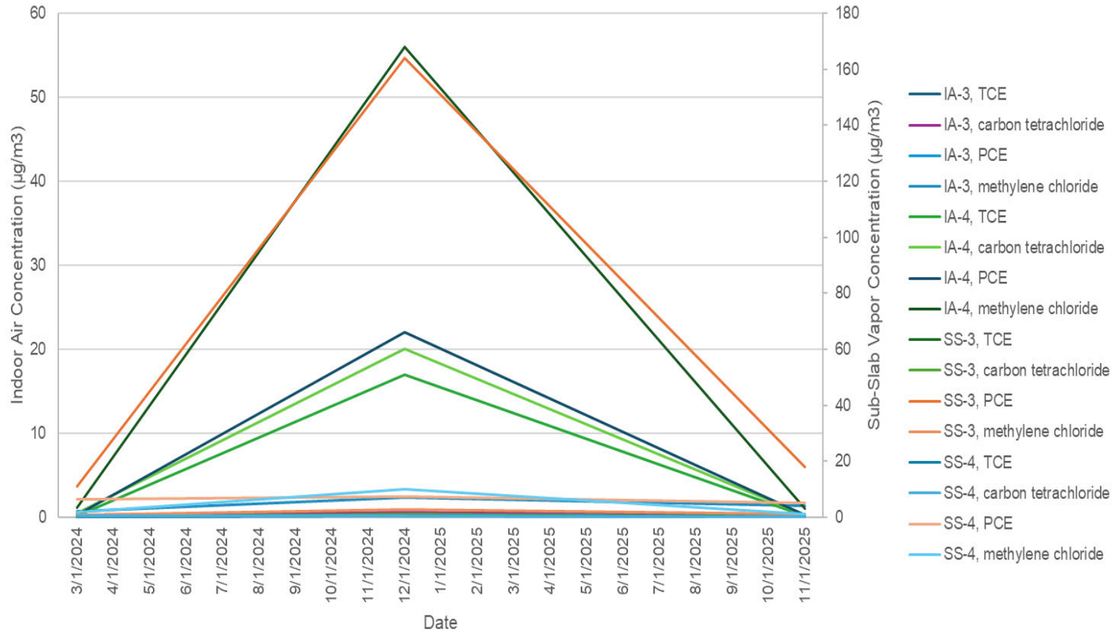
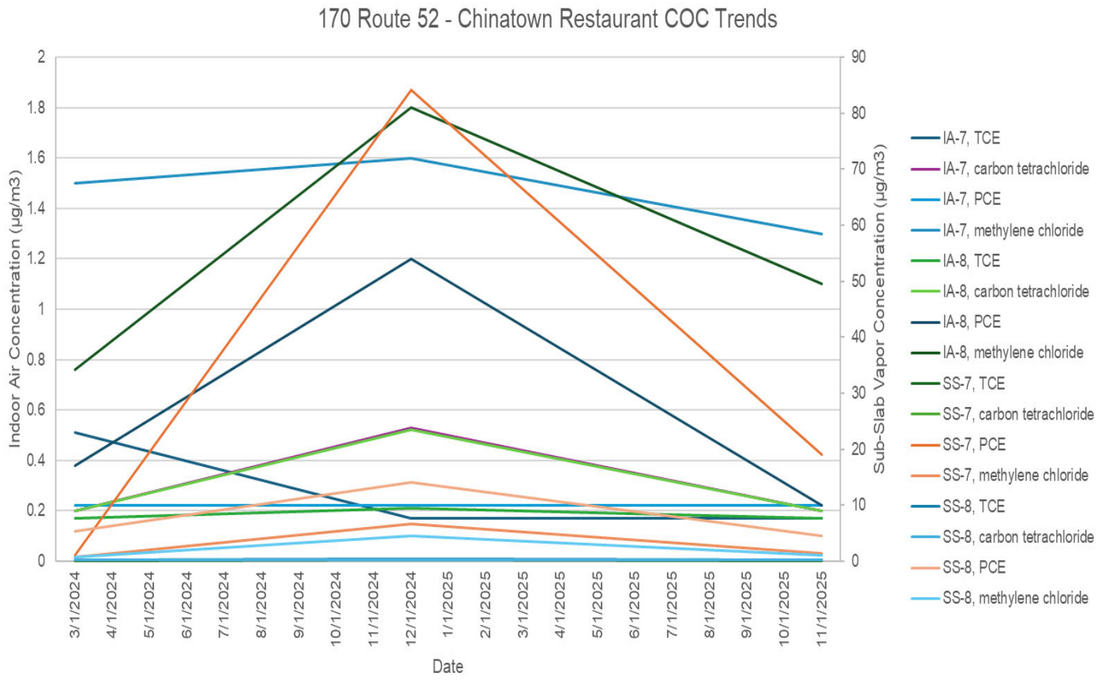
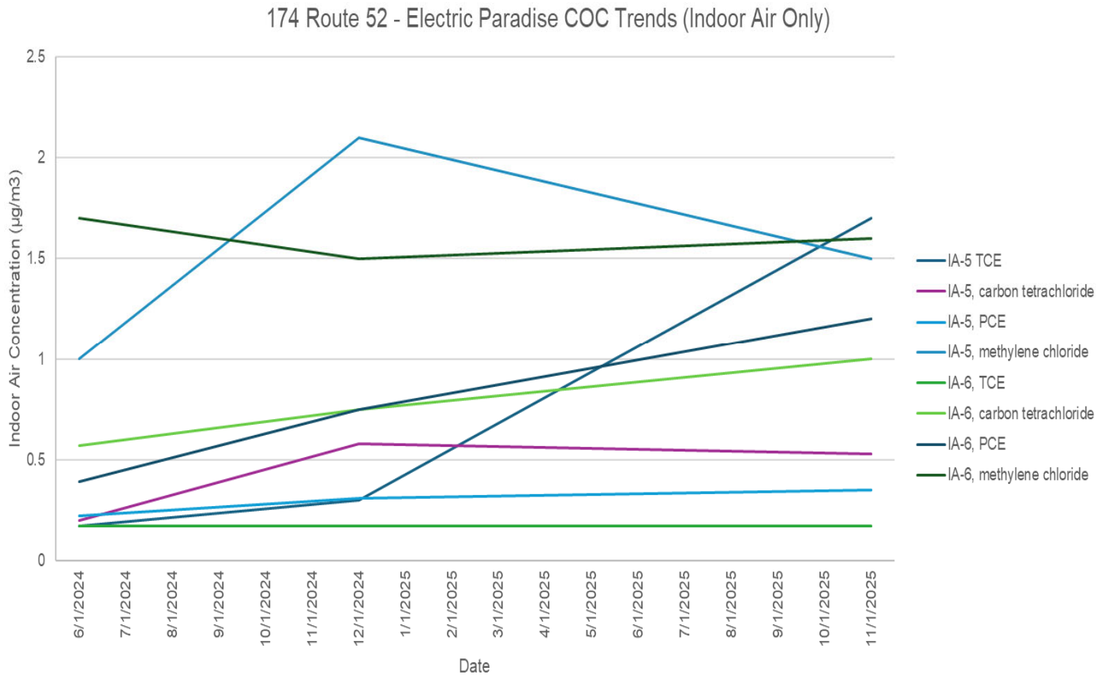


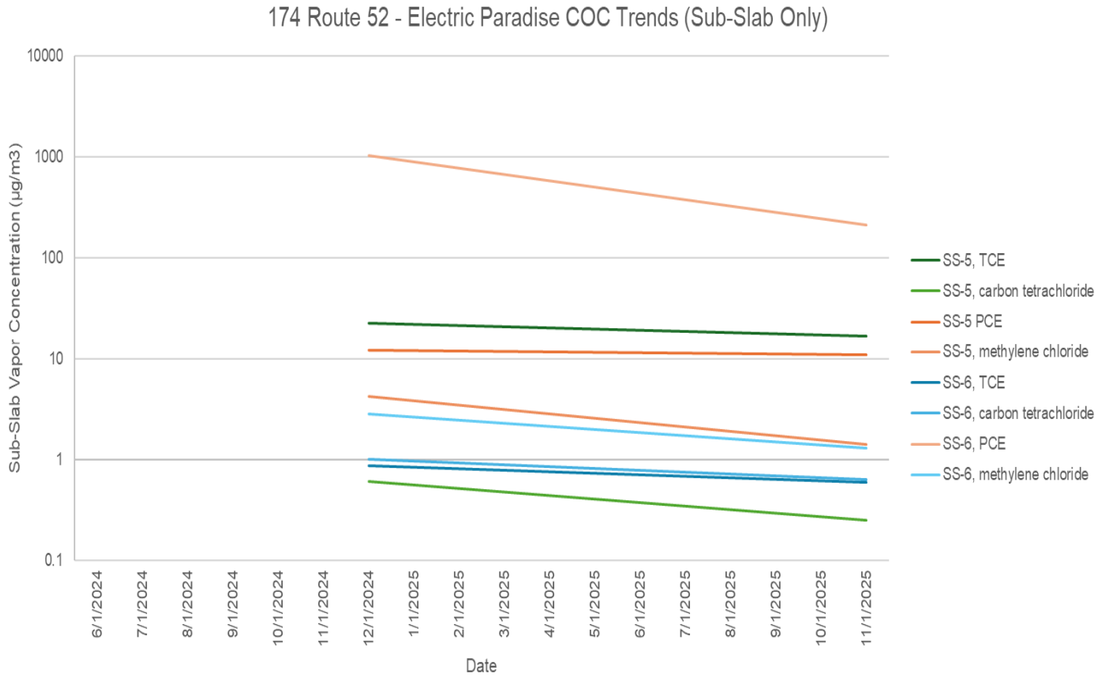




Notes:
COC – constituent of concern
IA – Indoor Air
SS – Sub-slab
PCE – tetrachloroethylene
TCE – trichloroethylene
µg/m3 – micrograms per cubic meter

DRAFTED BY: JM	COC Trends #170, 176, and 178 Route 52 Tenant Spaces March 2024 through November 2025
CHECKED BY: JM	REGENCY CENTERS CARMEL SHOP RITE CENTER 180 GLENEIDA AVENUE CARMEL, NEW YORK
REVIEWED BY: MD	Groundwater & Environmental Services, Inc. 63 EAST MAIN STREET, PAWLING, NY 12564
NORTH	No Scale / DATE 2/4/2026 / FIGURE 5

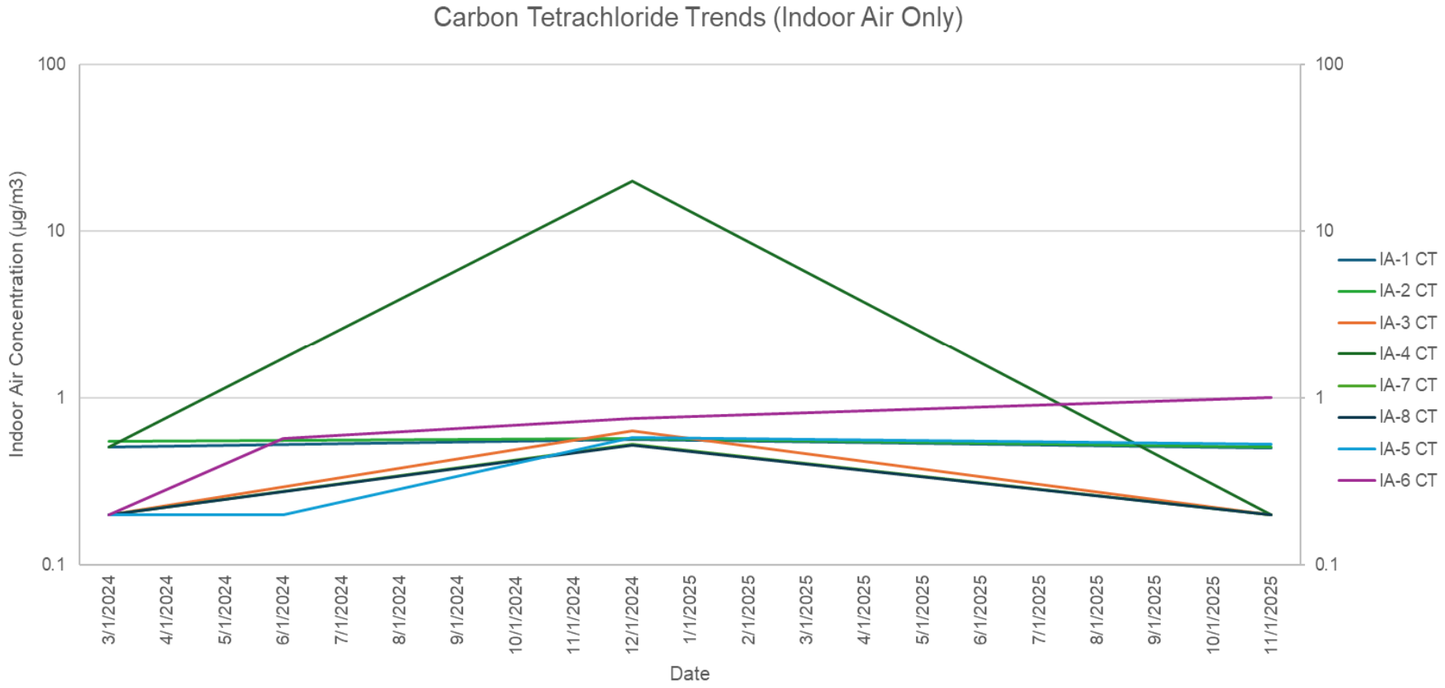


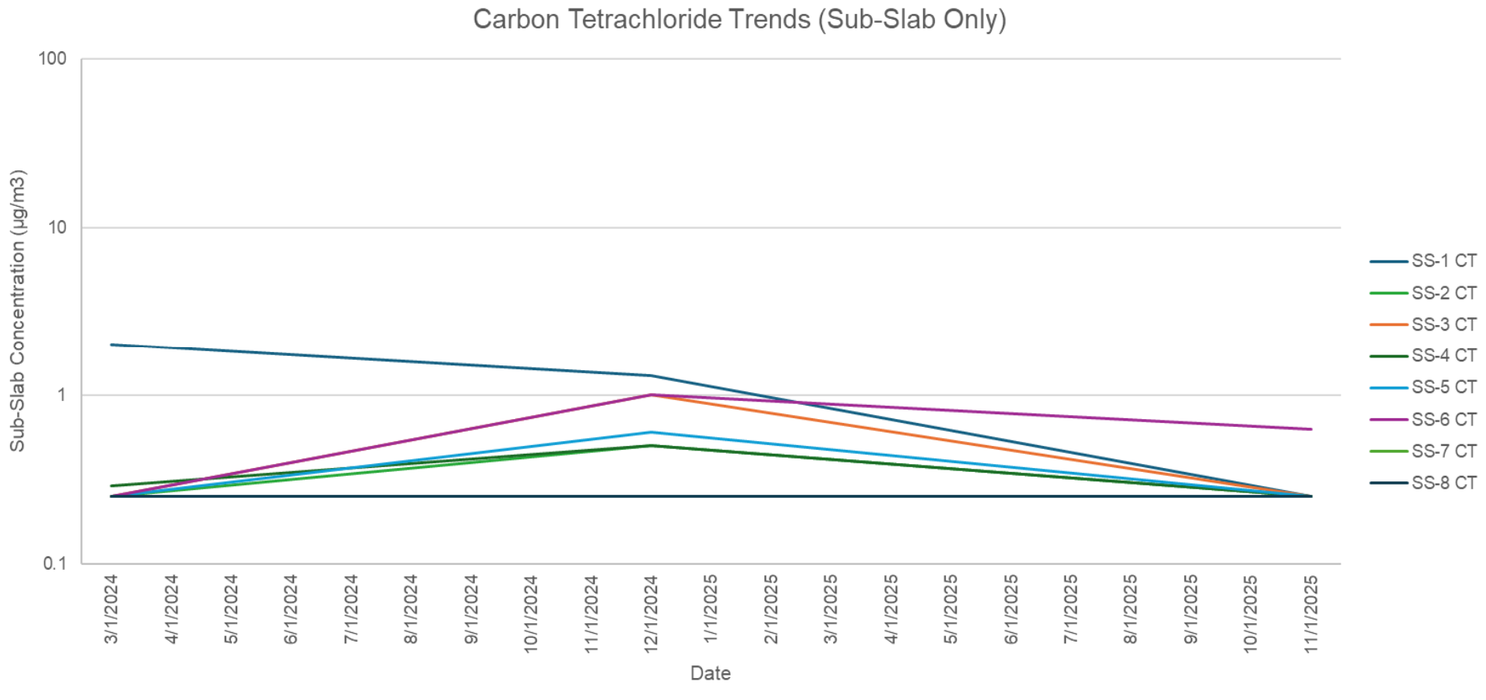


Notes:
COC – constituent of concern
IA – Indoor Air
SS – Sub-slab
PCE – tetrachloroethylene
TCE – trichloroethylene
µg/m3 – micrograms per cubic meter

*Data collected during the March 2024 soil vapor intrusion sampling event was not utilized in the generation of trend graphs due to a sampling error.

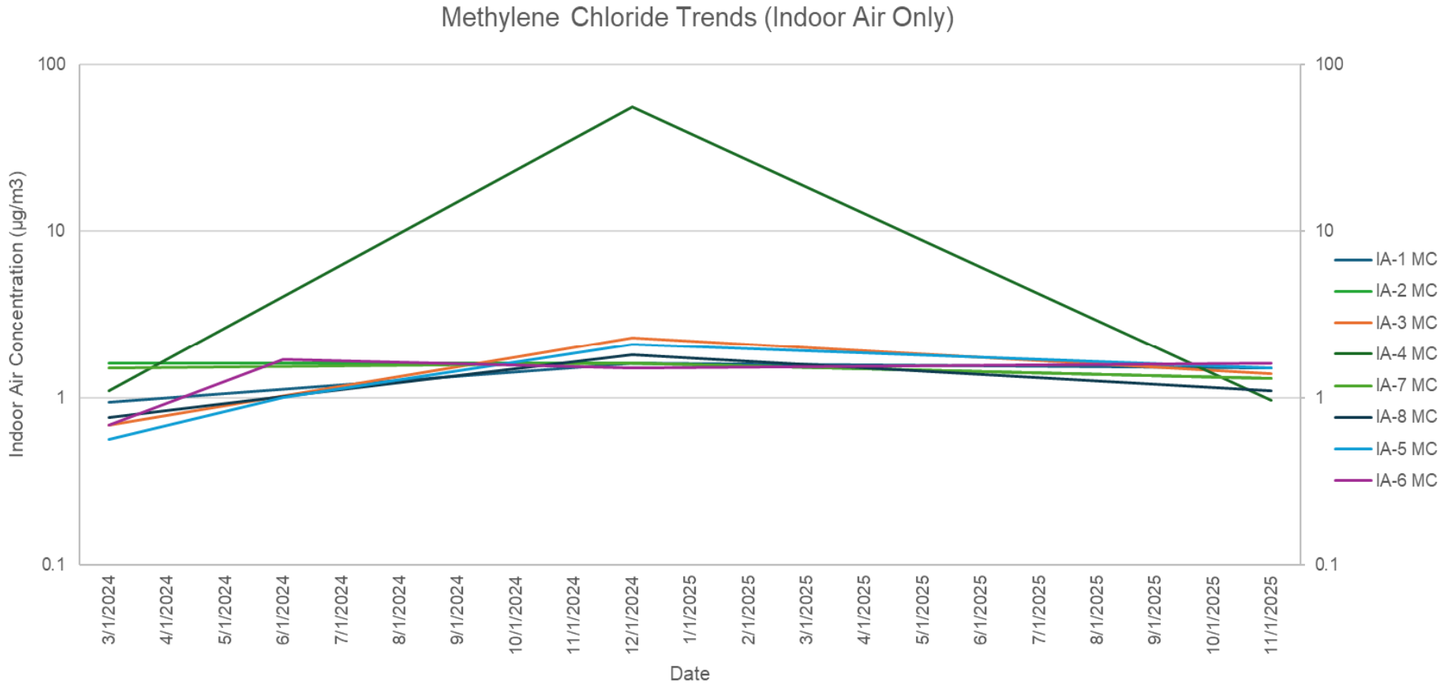
DRAFTED BY: JM	COC Trends #174 Route 52 Tenant Space June 2024 through November 2025
CHECKED BY: JM	REGENCY CENTERS CARMEL SHOP RITE CENTER 180 GLENEIDA AVENUE CARMEL, NEW YORK
REVIEWED BY: MD	Groundwater & Environmental Services, Inc. 63 EAST MAIN STREET, PAWLING, NY 12564
NORTH	No Scale / DATE 2/4/2026 / FIGURE 6

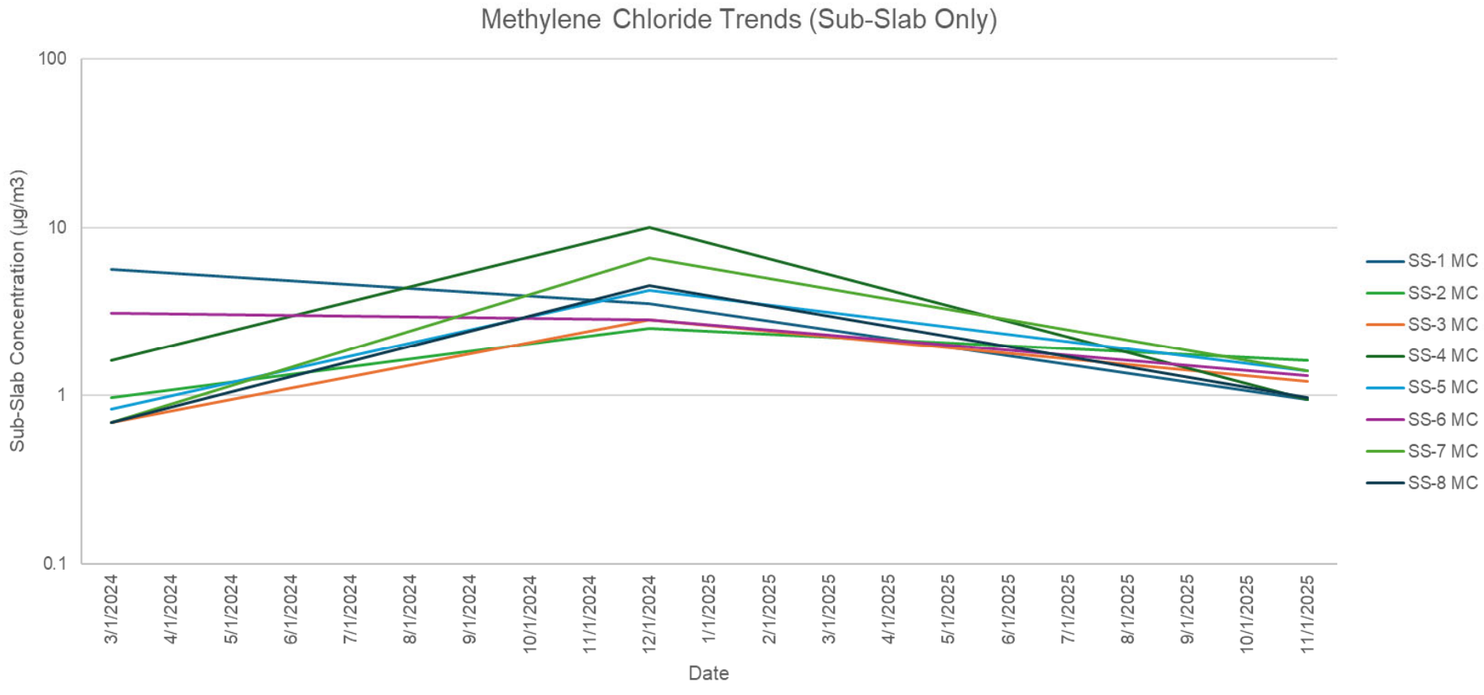




Notes:
COC – constituent of concern
IA – Indoor Air
SS – Sub-slab
CT – Carbon Tetrachloride
µg/m3 – micrograms per cubic meter

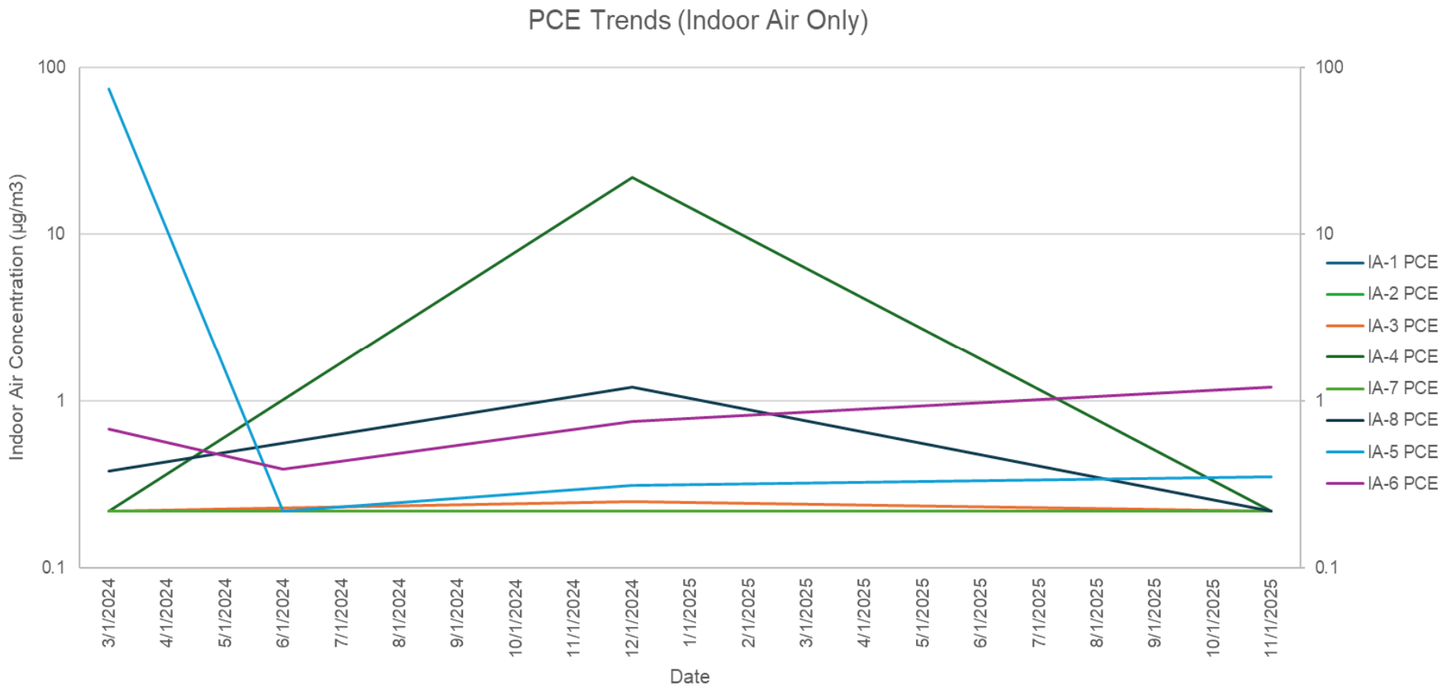
DRAFTED BY: JM	COC Trends – Carbon Tetrachloride #170, 174, 176, 178 Route 52 Tenant Spaces March 2024 through November 2025
CHECKED BY: JM	REGENCY CENTERS CARMEL SHOP RITE CENTER 180 GLENEIDA AVENUE CARMEL, NEW YORK
REVIEWED BY: MD	Groundwater & Environmental Services, Inc. 63 EAST MAIN STREET, PAWLING, NY 12564
NORTH	No Scale / DATE 8/18/2026 / FIGURE 7A

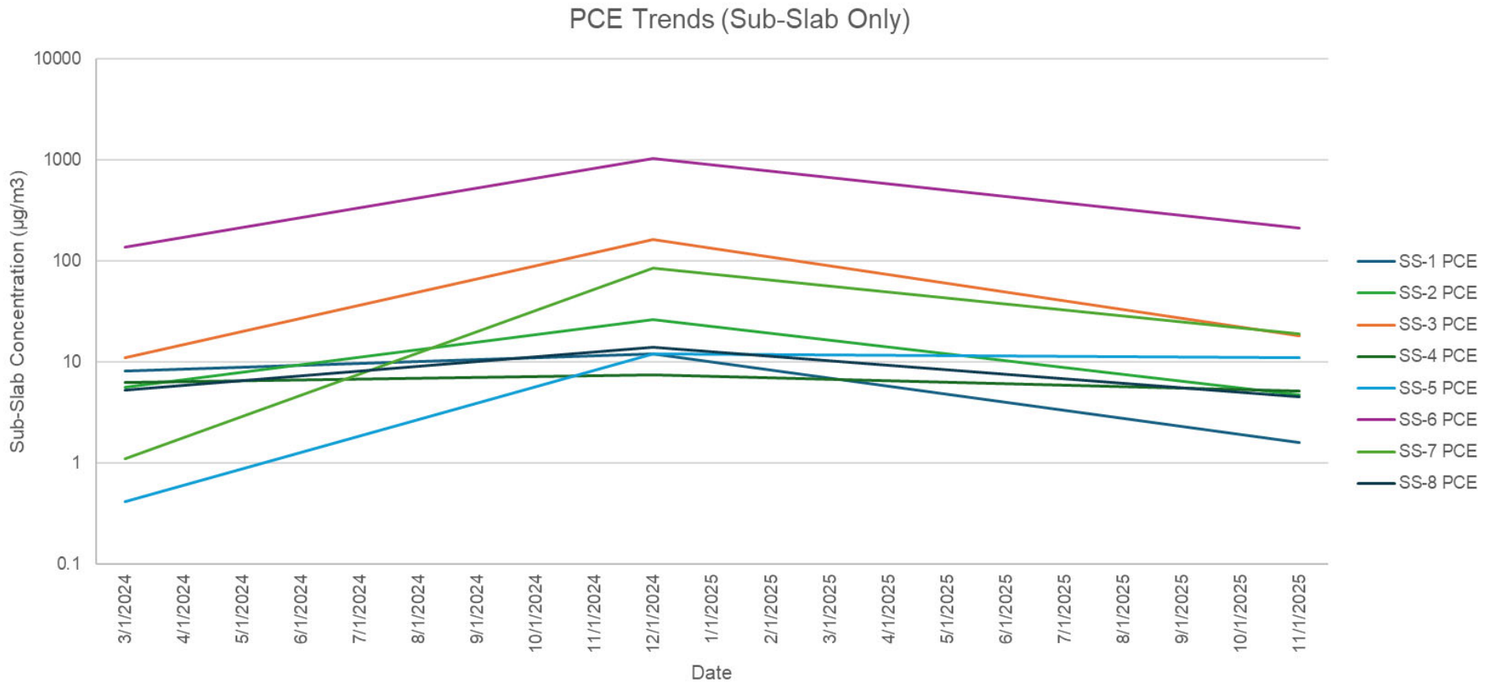




Notes:
COC – constituent of concern
IA – Indoor Air
SS – Sub-slab
MC – Methylene Chloride
µg/m3 – micrograms per cubic meter

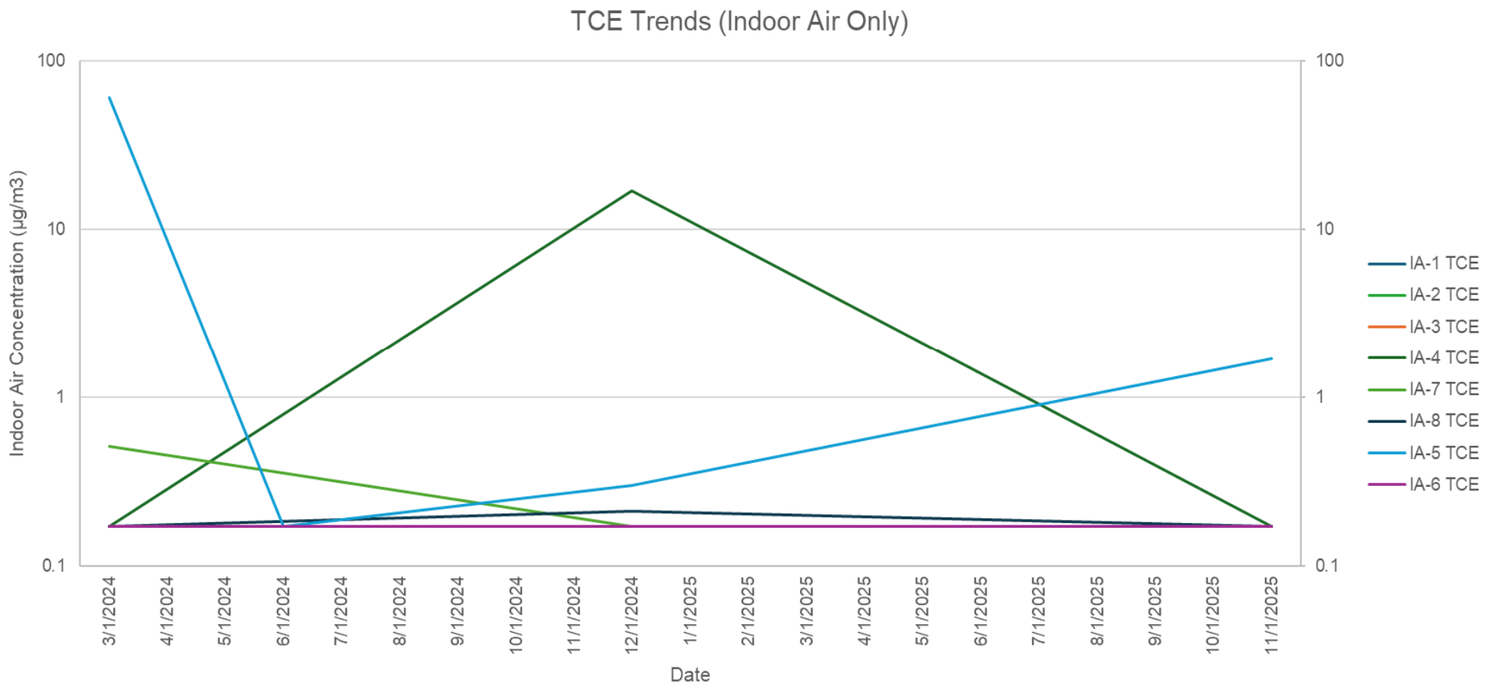
DRAFTED BY: JM	COC Trends – Methylene Chloride #170, 174, 176, 178 Route 52 Tenant Spaces March 2024 through November 2025
CHECKED BY: JM	REGENCY CENTERS CARMEL SHOP RITE CENTER 180 GLENEIDA AVENUE CARMEL, NEW YORK
REVIEWED BY: MD	Groundwater & Environmental Services, Inc. 63 EAST MAIN STREET, PAWLING, NY 12564
NORTH	No Scale / DATE 8/18/2026 / FIGURE 7B

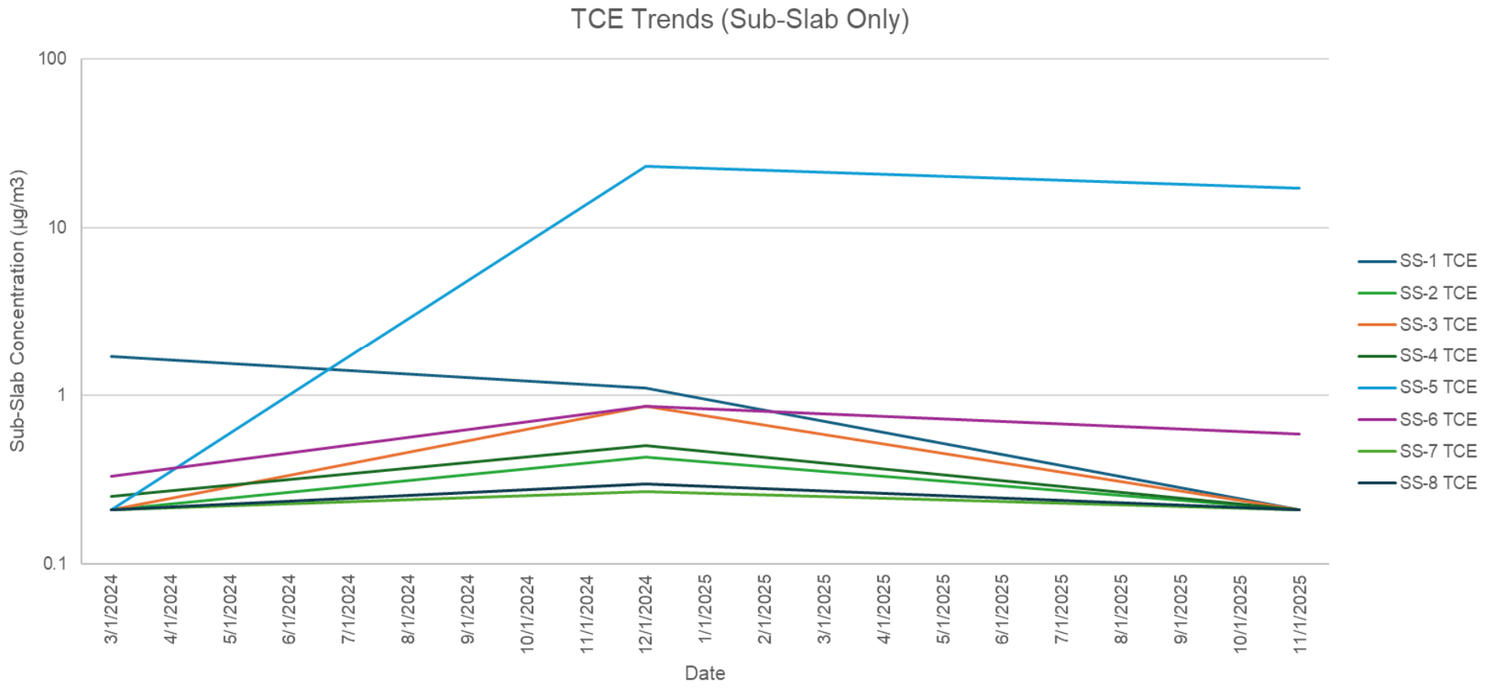




Notes:
COC – constituent of concern
IA – Indoor Air
SS – Sub-slab
PCE – tetrachloroethylene
µg/m3 – micrograms per cubic meter

DRAFTED BY: JM	COC Trends - PCE #170, 174, 176, 178 Route 52 Tenant Spaces March 2024 through November 2025		
CHECKED BY: JM	REGENCY CENTERS CARMEL SHOP RITE CENTER 180 GLENEIDA AVENUE CARMEL, NEW YORK		
REVIEWED BY: **MD**	Groundwater & Environmental Services, Inc. 63 EAST MAIN STREET, PAWLING, NY 12564		
NORTH	No Scale	DATE 8/18/2026	FIGURE **7C**





Notes:
COC – constituent of concern
IA – Indoor Air
SS – Sub-slab
TCE – trichloroethylene
µg/m3 – micrograms per cubic meter

DRAFTED BY: JM	COC Trends - TCE #170, 174, 176, 178 Route 52 Tenant Spaces March 2024 through November 2025
CHECKED BY: JM	REGENCY CENTERS CARMEL SHOP RITE CENTER 180 GLENEIDA AVENUE CARMEL, NEW YORK
REVIEWED BY: MD	Groundwater & Environmental Services, Inc. 63 EAST MAIN STREET, PAWLING, NY 12564
NORTH	No Scale / DATE 8/18/2026 / FIGURE 7D

Tables

Regency Centers Corp.
Carmel ShopRite Plaza
Carmel, New York

Table 4
Air Analytical Results
November 2025

Tenant Space Location	178 Route 52 – Europa Pizza				176 Route 52 – Carmel Nails				174 Route 52 – Electric Paradise Tanning						170 Route 52 – Chinatown Restaurant				Outdoors		Regulatory Guidance	
Client Sample ID:	IA-1	SS-1	IA-2	SS-2	IA-3	SS-3	IA-4	SS-4	IA-5	SS-5	IA-6	SS-6	DUP IA	DUP SS	IA-7	SS-7	IA-8	SS-8	OA-1	OA-2	NYSDOH 2006 Soil Vapor Indoor 95th Percentile (1)	NYSDOH 2006 Soil Vapor Intrusion Air Guidance Value (2)
Lab Sample ID:	JE23791-2	JE23791-1	JE23791-4	JE23791-3	JE23789-2	JE23789-1	JE23789-4	JE23789-3	JE23793-2	JE23793-1	JE23793-4	JE23793-3	JE23793-6	JE23793-5	JE23790-2	JE23790-1	JE23790-4	JE23790-3	JE23794-1	JE2488-2		
Date Sampled:	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025	11/18/2025		
Matrix:	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Ambient Air	Ambient Air		
Acetone (2-Propanone)	**1,670** [a]	124	**1,100** [a]	66.8	**9,120** [a]	815 [a]	**6,530** [a]	368 [a]	**915** [a]	675 [a]	**2,200** [a]	78.4	**2,800** [a]	758 [a]	24.0	46.6	12	46.8	7.1	7.1	140	NS
1,3-Butadiene	ND<(0.35)	ND<(0.44)	0.51	ND<(0.44)	ND<(0.35)	ND<(0.44)	ND<(0.35)	ND<(0.44)	ND<(0.35)	ND<(0.44)	0.53	ND<(0.44)	ND<(0.35)	ND<(0.44)	ND<(0.35)	ND<(0.44)	ND<(0.35)	ND<(0.44)	ND<(0.35)	ND<(0.35)	NS	NS
Benzene	2.1	1.2	5.4	1.8	0.70	0.89	0.77	0.89	1.5	1.5	2.0	0.80	1.9	1.5	0.89	0.80	ND<(0.51)	ND<(0.64)	0.58	0.70	29	NS
Bromodichloromethane	ND<(0.54)	ND<(0.67)	0.87	ND<(0.67)	ND<(0.54)	ND<(0.67)	ND<(0.54)	ND<(0.67)	ND<(0.54)	ND<(0.67)	ND<(0.54)	ND<(0.67)	ND<(0.54)	ND<(0.67)	ND<(0.54)	ND<(0.67)	ND<(0.54)	ND<(0.67)	ND<(0.54)	ND<(0.54)	NS	NS
Bromoform	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	ND<(0.33)	NS	NS
Bromomethane	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	ND<(0.62)	0.9	NS
Bromoethene	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	ND<(0.70)	NS	NS
Benzyl Chloride	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	ND<(0.82)	NS	NS
Carbon disulfide	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	ND<(0.50)	NS	NS
Chlorobenzene	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.74)	<0.25	NS
Chloroethane	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	ND<(0.42)	0.6	NS
Chloroform	2.2	1.0	**4.9**	1.7	1.6	ND<(0.98)	3.0	1.2	1.6	1.5	2.8	4.1	1.9	1.4	ND<(0.78)	ND<(0.98)	ND<(0.78)	ND<(0.98)	ND<(0.78)	ND<(0.78)	4.6	NS
Chloromethane	1.3	ND<(0.41)	1.5	ND<(0.41)	0.99	ND<(0.41)	1.0	ND<(0.41)	1.1	0.85	1.2	ND<(0.41)	1.2	1.1	0.85	ND<(0.41)	0.85	ND<(0.41)	1.1	1.0	5.2	NS
3-Chloropropene	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	ND<(0.50)	NS	NS
2-Chlorotoluene	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	ND<(0.83)	NS	NS
Carbon tetrachloride	0.50	ND<(0.25)	0.51	ND<(0.25)	ND<(0.20)	ND<(0.25)	ND<(0.20)	ND<(0.25)	0.53	ND<(0.25)	1.0	0.63	0.63	ND<(0.25)	ND<(0.20)	ND<(0.25)	ND<(0.20)	ND<(0.25)	0.48	ND<(0.20)	1.1	NS
Cyclohexane	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	1.8	1.1	1.0	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.55)	19	NS
1,1-Dichloroethane	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.65)	<0.25	NS
1,1-Dichloroethylene	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.13)	0.7	NS
1,2-Dibromoethane (EDB)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.61)	<0.25	NS
1,2-Dichloroethane	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	ND<(0.65)	<0.25	NS
1,2-Dichloropropane	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	ND<(0.74)	<0.25	NS
1,4-Dioxane	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.58)	NS	NS
Dichlorodifluoromethane	2.5	5.4	2.3	17	2.2	2.9	2.4	2.5	2.5	2.6	2.6	3.4	2.6	2.4	2.2	3.6	2.3	2.8	2.3	2.2	26	NS
Dibromochloromethane	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.68)	NS	NS
trans-1,2-Dichloroethylene	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	ND<(0.63)	NS	NS
cis-1,2-Dichloroethylene	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	0.52	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	ND<(0.13)	1.2	NS
cis-1,3-Dichloropropene	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.73)	<0.25	NS
m-Dichlorobenzene	ND<(0.48)	2.4	ND<(0.48)	2.0	ND<(0.48)	2.5	ND<(0.48)	1.4	ND<(0.48)	1.6	ND<(0.48)	0.96	ND<(0.48)	1.3	ND<(0.48)	3.0	ND<(0.48)	1.9	ND<(0.48)	ND<(0.48)	0.9	NS
o-Dichlorobenzene	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	ND<(0.19)	1	NS
p-Dichlorobenzene	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	ND<(0.48)	2.6	NS
trans-1,3-Dichloropropene	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	ND<(0.73)	<0.25	NS
Ethanol	1,490 [a]	599 [a] E	2,680 [a] E	335 E	533 [b]	522 [a]	337 [a]	386 [a]	1,060 [a] E	969 [a] E	1,220 [a]	187 E	1,100 [b]	929 [a]	950 E	349 E	84.4	224 E	7.0	4.7	NS	NS
Ethylbenzene	ND<(0.69)	0.91	ND<(0.69)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	1.3	ND<(0.69)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	ND<(0.69)	13	NS
Ethyl Acetate	81.7	48.2	41.0	42.5	382 [b]	479 [a]	153 [a]	63.7	47.9	52.9	71.6	23	94.7	56.9	9.0	18	8.3	26	10	27	NS	NS
4-Ethyltoluene	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.79)	NS	NS
Freon 113	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	ND<(0.61)	NS	NS
Freon 114	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	ND<(0.56)	NS	NS
Heptane	9.8	4.9	7.0	2.7	76.6	45.1	40	23	5.3	25	11	3.0	12	ND<(0.82)	0.82	0.86	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.66)	NS	NS
Hexachlorobutadiene	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	ND<(0.77)	11	NS
Hexane	1.4	1.4	1.1	1.0	0.81	1.6	0.85	1.2	0.74	1.3	0.85	0.81	0.88	1.9	1.2	0.81	0.70	1.1	0.67	0.74	NS	NS
2-Hexanone	ND<(0.65)	1.2	ND<(0.65)	ND<(0.82)	ND<(0.65)	ND<(0.82)	ND<(0.65)	ND<(0.82)	ND<(0.65)	ND<(0.82)	ND<(0.65)	ND<(0.82)	ND<(0.65)	ND<(0.82)	ND<(0.65)	ND<(0.82)	ND<(0.65)	ND<(0.82)	ND<(0.65)	ND<(0.65)	NS	NS
Isopropyl Alcohol	56.0	39.6	41.5	27.5	489 [b]	39.8	171 [a]	29.3	48.2	47.9	90.0	17	90.9	44.5	4.4	23	2.0	15	0.93	0.59	NS	NS
Methylene chloride	1.5	0.94	1.3	1.6	1.4	1.2	0.97	0.94	1.5	1.4	1.6	1.3	1.1	2.2	1.3	1.4	1.1	0.97	1.5	0.97	45	60
Methyl ethyl ketone	1.9	6.2	1.3	4.4	0.88	6.8	0.94	5.9	1.1	4.1	1.5	2.6	1.6	4.4	ND<(0.47)	5.3	ND<(0.47)	3.2	ND<(0.47)	ND<(0.47)	39	NS
Methyl Isobutyl Ketone	ND<(0.66)	0.98	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.66)	5.3	NS
Methyl Tert Butyl Ether	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	ND<(0.58)	71	NS
Methylmethacrylate	**18**	7.0	**12**	2.9	**70.4**	36	**51.2**	20	**13**	9.8	**28**	6.1	**27**	9.4	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	ND<(0.66)	1.1	NS
Naphthalene	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(1.0)	ND<(0.84)	ND<(0.84)	NS	NS
Propylene	ND<(0.69)	ND<(0.86)	ND<(0.69)	ND<(0.86)	1.5	ND<(0.86)	1.4	ND<(0.86)	ND<(0.69)	ND<(0.86)	ND<(0.69)	ND<(0.86)	ND<(0.69)	1.1	1.4	ND<(0.86)	0.77	ND<(0.86)	ND<(0.69)	ND<(0.69)	NS	NS
Styrene	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	ND<(0.68)	2.3	NS
1,1,1-Trichloroethane	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.44)	6.9	NS
1,1,2,2-Tetrachloroethane	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	ND<(0.55)	<0.25	NS
1,1,2-Trichloroethane	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	ND<(0.44)	<0.25	NS
1,2,4-Trichlorobenzene	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	ND<(0.59)	6.3	NS
1,2,4-Trimethylbenzene	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.79)	18	NS
1,3,5-Trimethylbenzene	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	ND<(0.79)	6.5	NS
2,2,4-Trimethylpentane	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	ND<(0.75)	NS	NS
Tertiary Butyl Alcohol	1.3	7.6	ND<(0.49)	7.9	0.85	12	0.70	9.4	1.2	7.3	1.3	2.9	1.2	8.2	ND<(0.49)	9.1	ND<(0.49)	5.2	ND<(0.49)	ND<(0.49)	NS	NS
Tetrachloroethylene	ND<(0.22)	1.6	ND<(0.22)	4.7	ND<(0.22)	18	ND<(0.22)	5.2	0.35	11	1.2	214	0.59	11	ND<(0.22)	19	ND<(0.22)	4.5	ND<(0.22)	ND<(0.22)	4.1	30
Tetrahydrofuran	ND<(0.47)	0.59	ND<(0.47)	ND<(0.59)	1.1	ND<(0.59)	0.74	ND<(0.59)	ND<(0.47)	ND<(0.59)	ND<(0.47)	ND<(0.59)	ND<(0.47)	ND<(0.59)	ND<(0.47)	ND<(0.59)	ND<(0.47)	1.5	ND<(0.47)	ND<(0.47)	9.4	NS
Toluene	2.4	3.1	1.5	2.8	3.8	4.9	2.9	4.1	1.4	3.0	2.7	3.8	2.3	3.0	0.90	2.2	ND<(0.60)	1.7	ND<(0.60)	0.60	110	NS
Trichloroethylene	ND<(0.17)	ND<(0.21)	ND<(0.17)	ND<(0.21)	ND<(0.17)	ND<(0.21)	ND<(0.17)	ND<(0.21)	**1.7**	17	ND<(0.17)	0.59	ND<(0.17)	16	ND<(0.17)	ND<(0.21)	ND<(0.17)	ND<(0.21)	ND<(0.17)	ND<(0.17)	0.8	2
Trichlorofluoromethane	4.0	1,380 [a]	5.1	265	2.7	306	2.5	5.6	3.7	16	4.0	87.7	4.2	15	1.7	73.1	1.3	10	1.5	1.5	30	NS
Vinyl chloride	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.10)	ND<(0.082)	ND<(0.082)	<0.25	NS
Vinyl Acetate	1.7	3.9	1.5	3.2	0.63	3.5	0.56	3.9	ND<(0.56)	3.0	ND<(0.56)	2.9	0.74	9.1	ND<(0.56)	3.9	ND<(0.56)	1.9	ND<(0.56)	ND<(0.56)	NS	NS
m,p-Xylene	0.69	2.7	ND<(0.69)	2.5	0.69	2.3	ND<(0.69)	1.9	0.69	2.4	0.78	4.3	ND<(0.69)	2.5	1.4	2.2	ND<(0.69)	1.6	ND<(0.69)	ND<(0.69)	21	NS
o-Xylene	ND<(0.69)	1.3	ND<(0.69)	1.1	ND<(0.69)	0.96	ND<(0.69)	ND<(0.87)	ND<(0.69)	1.1	ND<(0.69)	1.9	ND<(0.69)	1.1	ND<(0.69)	0.96	ND<(0.69)	ND<(0.87)	ND<(0.69)	ND<(0.69)	13	NS
Xylenes (total)	1.0	4.0	ND<(0.69)	3.6	1.1	3.3	ND<(0.69)	2.6	0.69	3.5	1.1	6.2	ND<(0.69)	3.6	2.1	3.2	ND<(0.69)	2.3	ND<(0.69)	ND<(0.69)	NS	NS

Notes:
Results and Regulatory Guidance values are expressed in µg/m^3.
- = Not analyzed for that specific compound
µg/m^3 = micrograms per cubic meter
[a] = Result is from Run #2
[b] = Result is from Run #3
E = Indicates value exceeds calibration range
J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit. Concentration is an approximate value.
ND (ND<#) = Not detected. Concentration is less than the laboratory reporting limit.
NS = No Standard
NYSDOH = New York State Department of Health
BOLD = Results exceed NYSDOH 2006 Soil Vapor Indoor Upper Fence (1) standard
ITALIC = Results exceed NYSDOH 2006 Soil Vapor Intrusion Air Guidance Value (2) standard
(1) Upper fence indoor air values from "Table C1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes" published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C" (October 2006, revised September 2013 and August 2015). Upper fence indoor air values pertain to indoor air samples only.
(2) NYSDOH Air Guideline Values (AGVs) from "Table 3.1 Air guideline values derived by the NYSDOH" presented in the Final Guidance for evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document"). AGVs pertain to indoor air samples only.

Table 5
Constituents of Concern Summary Comparison
November 2025 (Matrices A, B and C)

Sample ID 178 Route 52 Europa Pizza	SS-1 Sub-Slab Vapor		IA-1 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NFA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NFA
CARBON TETRACHLORIDE	ND	0.25	0.50	0.20	NFA
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	ND	0.13	NFA
METHYLENE CHLORIDE	0.94	0.69	1.5	0.56	NFA
TETRACHLOROETHYLENE (PCE)	1.6	0.27	ND	0.22	NFA
TRICHLOROETHYLENE (TCE)	ND	0.21	ND	0.17	NFA
VINYL CHLORIDE	ND	0.10	ND	0.082	NFA

Sample ID 178 Route 52 Europa Pizza	SS-2 Sub-Slab Vapor		IA-2 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NFA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NFA
CARBON TETRACHLORIDE	ND	0.25	0.51	0.20	NFA
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	ND	0.13	NFA
METHYLENE CHLORIDE	1.6	0.69	1.3	0.56	NFA
TETRACHLOROETHYLENE (PCE)	4.7	0.27	ND	0.22	NFA
TRICHLOROETHYLENE (TCE)	ND	0.21	ND	0.17	NFA
VINYL CHLORIDE	ND	0.10	ND	0.082	NFA

Matrix A
Matrix B
Matrix C
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 5
Constituents of Concern Summary Comparison
November 2025 (Matrices A, B and C)

Sample ID 176 Route 52 Carmel Nails	SS-3 Sub-Slab Vapor		IA-3 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NFA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NFA
CARBON TETRACHLORIDE	ND	0.25	ND	0.20	NFA
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	ND	0.13	NFA
METHYLENE CHLORIDE	1.2	0.69	1.4	0.56	NFA
TETRACHLOROETHYLENE (PCE)	18	0.27	ND	0.22	NFA
TRICHLOROETHYLENE (TCE)	ND	0.21	ND	0.17	NFA
VINYL CHLORIDE	ND	0.10	ND	0.082	NFA

Sample ID 176 Route 52 Carmel Nails	SS-4 Sub-Slab Vapor		IA-4 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NFA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NFA
CARBON TETRACHLORIDE	ND	0.25	ND	0.20	NFA
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	ND	0.13	NFA
METHYLENE CHLORIDE	0.94	0.69	0.97	0.56	NFA
TETRACHLOROETHYLENE (PCE)	5.2	0.27	ND	0.22	NFA
TRICHLOROETHYLENE (TCE)	ND	0.21	ND	0.17	NFA
VINYL CHLORIDE	ND	0.10	ND	0.082	NFA

Matrix A
Matrix B
Matrix C
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 5
Constituents of Concern Summary Comparison
November 2025 (Matrices A, B and C)

Sample ID 174 Route 52 Electric Paradise	SS-5 Sub-Slab Vapor		IA-5 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NFA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NFA
CARBON TETRACHLORIDE	ND	0.25	0.53	0.20	NFA
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	0.52	0.13	NFA
METHYLENE CHLORIDE	1.4	0.69	1.5	0.56	NFA
TETRACHLOROETHYLENE (PCE)	11	0.27	0.35	0.22	NFA
TRICHLOROETHYLENE (TCE)	17	0.21	1.7	0.17	MITIGATE
VINYL CHLORIDE	ND	0.10	ND	0.082	NFA

Sample ID 174 Route 52 Electric Paradise	SS-5 (DUP) Sub-Slab Vapor		IA-6 (DUP) Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NA
CARBON TETRACHLORIDE	ND	0.25	0.63	0.20	NA
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	ND	0.13	NA
METHYLENE CHLORIDE	2.2 J	0.69	1.1	0.56	NA
TETRACHLOROETHYLENE (PCE)	11	0.27	0.59	0.22	NA
TRICHLOROETHYLENE (TCE)	16	0.21	ND	0.17	NA
VINYL CHLORIDE	ND	0.10	ND	0.082	NA

Sample ID 174 Route 52 Electric Paradise	SS-6 Sub-Slab Vapor		IA-6 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NFA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NFA
CARBON TETRACHLORIDE	0.63	0.25	1.0	0.20	IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	ND	0.13	NFA
METHYLENE CHLORIDE	1.3	0.69	1.6	0.56	NFA
TETRACHLOROETHYLENE (PCE)	214	0.27	1.2	0.22	NFA
TRICHLOROETHYLENE (TCE)	0.59	0.21	ND	0.17	NFA
VINYL CHLORIDE	ND	0.10	ND	0.082	NFA

Matrix A
Matrix B
Matrix C
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 5
Constituents of Concern Summary Comparison
November 2025 (Matrices A, B and C)

Sample ID 170 Route 52 Chinatown	SS-7 Sub-Slab Vapor		IA-7 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NFA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NFA
CARBON TETRACHLORIDE	ND	0.25	ND	0.20	NFA
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	ND	0.13	NFA
METHYLENE CHLORIDE	1.4	0.69	1.3	0.56	NFA
TETRACHLOROETHYLENE (PCE)	19	0.27	ND	0.22	NFA
TRICHLOROETHYLENE (TCE)	ND	0.21	ND	0.17	NFA
VINYL CHLORIDE	ND	0.10	ND	0.082	NFA

Sample ID 170 Route 52 Chinatown	SS-8 Sub-Slab Vapor		IA-8 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.55	ND	0.44	NFA
1,1-DICHLOROETHYLENE (1,1-DCE)	ND	0.16	ND	0.13	NFA
CARBON TETRACHLORIDE	ND	0.25	ND	0.20	NFA
CIS-1,2-DICHLOROETHYLENE (c12-DCE)	ND	0.16	ND	0.13	NFA
METHYLENE CHLORIDE	0.97	0.69	1.1	0.56	NFA
TETRACHLOROETHYLENE (PCE)	4.5	0.27	ND	0.22	NFA
TRICHLOROETHYLENE (TCE)	ND	0.21	ND	0.17	NFA
VINYL CHLORIDE	ND	0.10	ND	0.082	NFA

Matrix A
Matrix B
Matrix C
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 5
Constituents of Concern Summary Comparison
November 2025 (Matrices A, B and C)

Sample ID	OA1 Outdoor Air		OA2 Outdoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	ND	0.44	ND	0.44	NA
1,1-DICHLOROETHLYENE (1,1-DCE)	ND	0.13	ND	0.13	NA
CARBON TETRACHLORIDE	0.48	0.20	ND	0.20	NA
CIS-1,2-DICHLOROETHLYENE (c12-DCE)	ND	0.13	ND	0.13	NA
METHYLENE CHLORIDE	1.5	0.56	0.97	0.56	NA
TETRACHLOROETHLYENE (PCE)	ND	0.22	ND	0.22	NA
TRICHLOROETHLYENE (TCE)	ND	0.17	ND	0.17	NA
VINYL CHLORIDE	ND	0.082	ND	0.082	NA

Matrix A
Matrix B
Matrix C
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 6
Constituents of Concern Summary Comparison
November 2025 (Matrices D, E and F)

Sample ID 178 Route 52 Europa Pizza	SS-1 Sub-Slab Vapor		IA-1 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	1.2	0.64	2.1	0.51	NFA
CYCLOHEXANE	ND	0.69	ND	0.55	NFA
ETHYLBENZENE	0.91	0.87	ND	0.69	NFA
HEPTANE	4.9	0.82	9.8	0.66	NFA
HEXANE	1.4	0.70	1.4	0.56	NFA
NAPHTHALENE	ND	1.0	ND	0.84	NFA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NFA
TOLUENE	3.1	0.75	2.4	0.60	NFA
M,P-XYLENE	2.7	0.87	0.69	0.69	NFA
O-XYLENE	1.3	0.87	ND	0.69	NFA

Sample ID 178 Route 52 Europa Pizza	SS-2 Sub-Slab Vapor		IA-2 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	1.8	0.64	5.4	0.51	NFA
CYCLOHEXANE	ND	0.69	ND	0.55	NFA
ETHYLBENZENE	ND	0.87	ND	0.69	NFA
HEPTANE	2.7	0.82	7.0	0.66	NFA
HEXANE	1.0	0.70	1.1	0.56	NFA
NAPHTHALENE	ND	1.0	ND	0.84	NFA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NFA
TOLUENE	2.8	0.75	1.5	0.60	NFA
M,P-XYLENE	2.5	0.87	ND	0.69	NFA
O-XYLENE	1.1	0.87	ND	0.69	NFA

Matrix D
Matrix E
Matrix F
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 6
Constituents of Concern Summary Comparison
November 2025 (Matrices D, E and F)

Sample ID 176 Route 52 Carmel Nails	SS-3 Sub-Slab Vapor		IA-3 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	0.89	0.64	0.70	0.51	NFA
CYCLOHEXANE	1.1	0.69	1.8	0.55	NFA
ETHYLBENZENE	ND	0.87	ND	0.69	NFA
HEPTANE	45.1	0.82	76.6	0.66	IDENTIFY SOURCE(s) and RESAMPLE or MITIGATE
HEXANE	1.6	0.70	0.81	0.56	NFA
NAPHTHALENE	ND	1.0	ND	0.84	NFA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NFA
TOLUENE	4.9	0.75	3.8	0.60	NFA
M,P-XYLENE	2.3	0.87	0.69	0.69	NFA
O-XYLENE	0.96	0.87	ND	0.69	NFA

Sample ID 176 Route 52 Carmel Nails	SS-4 Sub-Slab Vapor		IA-4 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	0.89	0.64	0.77	0.51	NFA
CYCLOHEXANE	ND	0.69	1.0	0.55	NFA
ETHYLBENZENE	ND	0.87	ND	0.69	NFA
HEPTANE	23	0.82	40	0.66	IDENTIFY SOURCE(s) and RESAMPLE or MITIGATE
HEXANE	1.2	0.70	0.85	0.56	NFA
NAPHTHALENE	ND	1.0	ND	0.84	NFA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NFA
TOLUENE	4.1	0.75	2.9	0.60	NFA
M,P-XYLENE	1.9	0.87	ND	0.69	NFA
O-XYLENE	ND	0.87	ND	0.69	NFA

Matrix D
Matrix E
Matrix F
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 6
Constituents of Concern Summary Comparison
November 2025 (Matrices D, E and F)

Sample ID 174 Route 52 Electric Paradise	SS-5 Sub-Slab Vapor		IA-5 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	1.5	0.64	1.5	0.51	NFA
CYCLOHEXANE	ND	0.69	ND	0.55	NFA
ETHYLBENZENE	ND	0.87	ND	0.69	NFA
HEPTANE	25	0.82	5.3	0.66	NFA
HEXANE	1.3	0.70	0.74	0.56	NFA
NAPHTHALENE	ND	1.0	ND	0.84	NFA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NFA
TOLUENE	3.0	0.75	1.4	0.60	NFA
M,P-XYLENE	2.4	0.87	0.69	0.69	NFA
O-XYLENE	1.1	0.87	ND	0.69	NFA

Sample ID 174 Route 52 Electric Paradise	SS-5 (DUP) Sub-Slab Vapor		IA-6 (DUP) Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	1.5	0.64	1.9	0.51	NA
CYCLOHEXANE	ND	0.69	ND	0.55	NA
ETHYLBENZENE	ND	0.87	ND	0.69	NA
HEPTANE	ND	0.82	12	0.66	NA
HEXANE	1.9	0.70	0.88	0.56	NA
NAPHTHALENE	ND	1.0	ND	0.84	NA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NA
TOLUENE	3.0	0.75	2.3	0.60	NA
M,P-XYLENE	2.5	0.87	ND	0.69	NA
O-XYLENE	1.1	0.87	ND	0.69	NA

Sample ID 174 Route 52 Electric Paradise	SS-6 Sub-Slab Vapor		IA-6 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	0.80	0.64	2.0	0.51	NFA
CYCLOHEXANE	ND	0.69	ND	0.55	NFA
ETHYLBENZENE	1.3	0.87	ND	0.69	NFA
HEPTANE	3.0	0.82	11	0.66	NFA
HEXANE	0.81	0.70	0.85	0.56	NFA
NAPHTHALENE	ND	1.0	ND	0.84	NFA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NFA
TOLUENE	3.8	0.75	2.7	0.60	NFA
M,P-XYLENE	4.3	0.87	0.78	0.69	NFA
O-XYLENE	1.9	0.87	ND	0.69	NFA

Matrix D
Matrix E
Matrix F
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 6
Constituents of Concern Summary Comparison
November 2025 (Matrices D, E and F)

Sample ID 170 Route 52 Chinatown	SS-7 Sub-Slab Vapor		IA-7 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	0.80	0.64	0.89	0.51	NFA
CYCLOHEXANE	ND	0.69	ND	0.55	NFA
ETHYLBENZENE	ND	0.87	ND	0.69	NFA
HEPTANE	0.86	0.82	0.82	0.66	NFA
HEXANE	0.81	0.70	1.2	0.56	NFA
NAPHTHALENE	ND	1.0	ND	0.84	NFA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NFA
TOLUENE	2.2	0.75	0.90	0.60	NFA
M,P-XYLENE	2.2	0.87	1.4	0.69	NFA
O-XYLENE	0.96	0.87	ND	0.69	NFA

Sample ID 170 Route 52 Chinatown	SS-8 Sub-Slab Vapor		IA-8 Indoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	ND	0.64	ND	0.51	NFA
CYCLOHEXANE	ND	0.69	ND	0.55	NFA
ETHYLBENZENE	ND	0.87	ND	0.69	NFA
HEPTANE	ND	0.82	ND	0.66	NFA
HEXANE	1.1	0.70	0.70	0.56	NFA
NAPHTHALENE	ND	1.0	ND	0.84	NFA
1,2,4-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
1,3,5-TRIMETHYLBENZENE	ND	0.98	ND	0.79	NFA
2,2,4-TRIMETHYLPENTANE	ND	0.93	ND	0.75	NFA
TOLUENE	1.7	0.75	ND	0.60	NFA
M,P-XYLENE	1.6	0.87	ND	0.69	NFA
O-XYLENE	ND	0.87	ND	0.69	NFA

Matrix D
Matrix E
Matrix F
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Table 6
Constituents of Concern Summary Comparison
November 2025 (Matrices D, E and F)

Sample ID	OA1 Outdoor Air		OA2 Outdoor Air		Matrices Result
(UG/M3)	Result	MDL	Result	MDL	
BENZENE	0.58	0.51	0.70	0.51	NA
CYCLOHEXANE	ND	0.55	ND	0.55	NA
ETHYLBENZENE	ND	0.69	ND	0.69	NA
HEPTANE	ND	0.66	ND	0.66	NA
HEXANE	0.67	0.56	0.74	0.56	NA
NAPHTHALENE	ND	0.84	ND	0.84	NA
1,2,4-TRIMETHYLBENZENE	ND	0.79	ND	0.79	NA
1,3,5-TRIMETHYLBENZENE	ND	0.79	ND	0.79	NA
2,2,4-TRIMETHYLPENTANE	ND	0.75	ND	0.75	NA
TOLUENE	ND	0.60	0.60	0.60	NA
M,P-XYLENE	ND	0.69	ND	0.69	NA
O-XYLENE	ND	0.69	ND	0.69	NA

Matrix D
Matrix E
Matrix F
NFA-No Further Action
All Results Are ug/m3
NS-No Sample
NA-Not Applicable

Appendix A – 2025 Correspondence with NYSDEC

NEW YORK STATE | Department of Environmental Conservation

KATHY HOCHUL
Governor

AMANDA LEFTON
Acting Commissioner

Transmitted Via Email

April 25, 2025

Regency Centers
Monica Roth
321 Railroad Avenue
Greenwich, CT 06830
monicaroth@regencycenters.com

Re: Carmel Shop-Rite Plaza
Soil Vapor Intrusion Investigation Summary Report and Tenant Notification Letters
180 Gleneida Avenue
Carmel, New York
Site No.: V00104

Dear Monica Roth,

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has reviewed the results from the January 1, 2025, Soil Vapor Intrusion Investigation Summary Report. Please note, the report must be shared with your tenants and when doing so it is clear the report is still under review by the Department and NYSDOH. Based on the Department's review of the information submitted and subsequent communications with NYSDOH staff, the Department disapproves this Soil Vapor Intrusion Investigation Summary Report for the following reasons and deficiencies.

Reasons for Disapproval

Please respond to the Department within fifteen (15) days of the date of this letter indicating whether the Volunteer shall elect to modify the disapproved Soil Vapor Intrusion Investigation Summary Report.

1. Section 6.2 - Analytical Results: The text states that tetrachloroethene (PCE) and trichloroethene (TCE) exceeded the NYSDOH Air Guideline Values (AGVs) for both compounds. Based on our review of the Report's Data Table 4, there were no exceedances of the AGVs for PCE and TCE. Revise the Report accordingly and clarify that the AGVs (i.e., Table 3.1) pertain to indoor air samples, not sub-slab soil vapor or soil vapor samples.

2. Section 7 - Summary & Recommendations: Modify the text for Bullet 3, add the following text stating that additional volatile organic compounds (VOCs) were detected in the indoor air of all the tenant spaces. Include text stating *"The detections of acetone and methyl methacrylate were higher than expected. To*

minimize any exposure to chemicals used in daily business practices, please ensure that all containers are properly sealed and stored, and that products are used with adequate ventilation."

3. Figure 4 - Chemicals of Concern (COC) Summary Map: Please revise the indoor air Method Detection Limits (MDL) Column for Indoor Air, IA-4, the decimal point is missing.

4. Table 4 - Air Analytical Results: Revise the table to remove the bold and italics from all sub-slab soil vapor data results (e.g., acetone, methyl methacrylate, PCE and TCE) where applicable. Sub-slab vapor data is not compared to the NYSDOH 2006 Indoor 95th Percentile Values or the NYSDOH AGV.

5. Table 5 and Table 6 - Sample IA-4: Revise the MDLs (Column 5) to include the correct decimal point.

6. Table 7 – Recommendations: Based on a review of the data, the Department and the NYSDOH recommend all SSDS remain operational.

7. Section 6.1.3, the Report states the dryer vent exhausts into the Paradise Tanning tenant space. This might be skewing results of the indoor air data, too.

Please provide copies of the final tenant notification letters once they are transmitted. I've provided fact sheets for VOCs, PCE, and TCE from NYSDOH to be transmitted with these tenant notification letters.

In accordance with 6 NYCRR Part 375-1.6(d)(3) should the Volunteer elect to revise the Soil Vapor Intrusion Investigation Summary Report, please notify the Department within 15 days of receipt of this letter and provide a revised Report incorporating the above modification within 30 days of receipt of this letter.

The revised Soil Vapor Intrusion Investigation Summary Report must be placed in the document repository within five (5) business days of submittal to the Department.

I can be reached at (518) 402-9605 or by email at matthew.hubicki@dec.ny.gov to discuss this matter further should you have any questions or comments.

Sincerely,



Matthew Hubicki,
Project Manager

Attachments

4 Tenant Notification Letters with NYSDEC/NYSDOH comments
VOCs in Commonly Used Products
NYSDOH Tenant Notification for Tetrachloroethene (Perc or PCE)
NYSDOH Tenant Notification for Trichloroethene (TCE)

Ec: w/Attachments

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File/DecDocs

Memo

To:	Matthew Hubicki (NYSDEC), Renata Ockerby (NYSDOH), and Melissa Doroski (NYSDOH)
From:	Jessica Montaldo (GES) and Michael DeGloria (GES)
cc:	Monica Roth (Regency Centers)
Date:	June 13, 2025
Re:	NYSDEC Site Number V00104 Carmel Shop-Rite Center SVI Summary Report Follow-up

The purpose of this draft memorandum (memo) is to document Groundwater & Environmental Services', Inc. (GES') review of applicable historical data and report files related to the soil vapor intrusion investigations at the Carmel ShopRite Plaza (NYSDEC Site Number V00104) located at 180 Gleneida Avenue (Route 52) in Carmel, New York (the site).

GES, Regency Centers, New York State Department of Environmental Conservation (NYSDEC), and New York State Department of Health (NYSDOH) had a conference call on May 27, 2025 to discuss the next steps and recommendations included in the *Soil Vapor Intrusion Investigation Summary* dated January 24, 2025. As discussed on the call, NYSDEC and NYSDOH requested a review of the historical data for Tetrachloroethene (PCE) and Trichloroethene (TCE) at the site. Additionally, GES reviewed the radius of influence (ROI) testing that was historically completed to evaluate if there are sub-slab pathways between each tenant space.

A Site Map and Sub-Slab Depressurization System Layout is included as **Figure 1** and **Figure 2**, respectively.

Historical PCE and TCE Data

The historical data for indoor air and soil gas presented in the February 2012 *Site Management Plan* and the recent soil vapor intrusion investigation data collected in March 2024 and December 2024 were reviewed and compared. The data is presented in **Table 1** and **Table 2** for indoor air and soil gas/sub-slab vapor, respectively.

Indoor Air

The Pre-Remediation data collected, prior to the excavation of impacted PCE soil and installation of a soil vapor extraction (SVE) system, has indoor air samples collected at the tenant spaces that are currently Electric Paradise Tanning (former dry cleaners), Carmel Wine & Spirits, Chic Nail & Spa, and Chinatown Restaurant. The Electric Paradise Tanning tenant space is the source

location, and the Carmel Wine & Spirits, Chic Nail & Spa, and Chinatown Restaurant are the adjacent tenant locations to the North (Chic Nail & Spa) and South (Carmel Wine & Spirits and Chinatown Restaurant) of the former dry cleaners. During the Pre-Remediation phase, concentrations of PCE were detected at all sample locations. The PCE concentrations ranged from 5 micrograms per cubic meter (µg/m^3) at the outdoor sample location to 7,900 µg/m^3 in the storage area of the former dry cleaners. Concentrations of TCE were non-detect (unknown reporting limit) at all sample locations or was not analyzed.

The Post Remediation data collected, after excavation of 36 tons of PCE impacted soil and operation of the SVE system, has indoor air samples collected at the tenant spaces that are now Electric Paradise Tanning (former dry cleaners), Chic Nail & Spa, Carmel Wine & Spirits, and Chinatown Restaurants. During the Post Remediation phase, concentrations of PCE were detected at the Electric Paradise Tanning, Chic Nail & Spa, and Carmel Wine & Spirits tenant locations. PCE was not identified in the indoor air at the Chinatown Restaurant or the outdoor sample location. The PCE concentrations ranged from 10.8 µg/m^3 at the Carmel Wine & Spirits sample location to 1,030.56 µg/m^3 in the storage area of the former dry cleaners. Concentrations of TCE were non-detect (unknown reporting limit) at all sample locations or was not analyzed.

The recent data collected in 2024, after operation of the sub-slab depressurization system (SSDS) that was installed in 2005 at the Electric Paradise Tanning (former dry cleaners) and modified in 2010 to include individual operating SSDS fans in neighboring tenant spaces at Chic Nail & Spa, Europa Pizza, and Chinatown Restaurant, has indoor air samples collected at the tenant spaces that are now Electric Paradise Tanning (former dry cleaners), Chic Nail & Spa, Chinatown Restaurants, and Europa Pizza. The recent concentrations of PCE in indoor air samples from March 2024 and resampled in June 2024 were detected at Electric Paradise Tanning and Chinatown Restaurant. The indoor air concentrations in March 2024 for PCE ranged from non-detect to 74.6 µg/m^3 (Electric Paradise Tanning at sample location IA-5) and for TCE ranged from non-detect to 60.7 µg/m^3 (Electric Paradise Tanning at sample location IA-5). The results at sample location IA-5 in March 2024 are presumed to be erroneous and all sample locations at the Electric Paradise Tanning tenant location were resampled in June 2024. The indoor air concentrations in June 2024 for PCE ranged from non-detect to 0.39 µg/m^3 (Electric Paradise Tanning at sample location IA-6) and the TCE concentrations were non-detect at both sample locations (IA-5 and IA-6). The recent concentrations of PCE in indoor air samples from December 2024 were detected at Electric Paradise Tanning, Chic Nail & Spa, and Chinatown Restaurant. The indoor air concentrations in December 2024 for PCE ranged from non-detect to 1.2 µg/m^3 (Chinatown Restaurant at sample location IA-8) and for TCE ranged from non-detect to 0.30 µg/m^3 (Electric Paradise Tanning at sample location IA-5).

Soil Gas/Sub-slab Vapor

GES was unable to identify if sub-slab vapor or soil gas samples were collected during the Pre-Remediation phase in the available historical reports. During the Post Remediation phase of the project (active SVE operation), a SVE influent sample (SVEIN) was collected. The SVEIN sample had concentrations of PCE at 49.6 µg/m^3 and TCE at 54.9 µg/m^3. Additionally, a sub-slab soil gas sampling event was conducted on October 19, 2004 at the tenant spaces that are now Carmel

Wine & Spirits, Magic Clippers, Europa Pizza, and Chinatown Restaurant. Sub-slab soil gas concentrations of PCE ranged from 15.8 µg/m^3 at the Magic Clippers sample location to 7,490 µg/m^3 at the Carmel Wine & Spirits tenant space (in the rear storage area). The sub-slab soil gas concentrations of TCE ranged from non-detect (Europa Pizza, Magic Clippers, and entrance of Carmel Wine & Spirits) to 276 µg/m^3 at the Chinatown Restaurant tenant space (behind service counter).

The recent data collected in 2024 of the sub-slab vapor points illustrate a continued decrease in concentrations over time following operation of the SVE system (which was terminated in 2005). In March 2024, sub-slab vapor concentrations for PCE ranged from 0.41 µg/m^3 (SS-5 at Electric Paradise Tanning) to 136 µg/m^3 (SS-6 at Electric Paradise Tanning) and concentrations of TCE ranged from non-detect to 0.33 (SS-6 at Electric Paradise Tanning). In December 2024, sub-slab vapor concentrations for PCE ranged from 7.5 µg/m^3 (SS-4 at Chic Nail & Spa) to 1,040 µg/m^3 (SS6 at Electric Paradise Tanning) and concentrations of TCE ranged from non-detect to 23 µg/m^3 (SS5 at Electric Paradise Tanning).

Historic Data Summary

In summary, recent concentrations of indoor air and sub-slab vapor collected in March 2024 and December 2024 indicate a decrease at all tenant spaces in comparison to Post-Remediation data. The Post Remediation data was collected during operation of the SVE System between 2002 and 2005.

The data collected in December 2024, that was most recently reported in the Soil Vapor Intrusion Investigation Summary dated January 24, 2025, was compared to the NYSDOH Updates to Soil Vapor/Indoor Air Decision Matrices A through C, dated May 2017, for chlorinated constituents of concern (COC). Based on the comparison of December 2024 indoor air and sub-slab vapor data to Matrices A through C, a No Further Action recommendation for all tenant locations, with the exception of Electric Paradise Tanning, was determined.

SSDS Operation

The SVE system operated between 2002 and 2005, then was modified to operate as an SSDS in 2005, and again modified in 2010 to include individual operating SSDS fans in neighboring tenant spaces. The SSDS is utilized at the site to create a pressure differential below the slab and prevent soil vapor intrusion, the SSDS is considered an engineering control and not a remedial action.

SSDS performance testing was documented in the October 2006 *Sub-Slab Soil Gas Sampling Results, SSDS Performance Test Results, and Work Plan for Upgrade of SSDS* document prepared by Vertex Environmental Services. Performance testing of the SSDS took place in October 2005, January 2006, and March 2006 to confirm the SSDS, which consisted of lateral piping installed only in the current Electric Paradise Tanning tenant space, was creating negative pressure beneath the slab.

The results of the SSDS Performance Testing are included below:

Summary of SSDS Performance Testing Results			
Testing Date	**Sampling Location**		
	Sunscape Tan (now Electric Paradise Tanning)	Rendendo's Pizza (now Europa Pizza)	Chinatown Restaurant
10/18/2005	-0.7	0	0
1/5/2006	-0.777	-0.007	0
3/23/2006	-0.4	0	0

Note: results in inches of water column (i.w.)

The results presented above indicate that there is little to no sub-slab communication between tenant spaces. Vacuum was only observed at the Electronic Paradise Tanning tenant space during all three (3) SSDS performance tests. Vertex Environmental Services concludes that the site geology or building footers prevent flow of air beneath the building slab.

Recommendations

Based on the overall reduction of COCs observed over time, the NYSDOH Matrice Outcome recommendations, and the apparent lack of sub-slab interaction between tenant spaces, GES recommends the following:

- The continued operation of the SSDS fan located at the Electric Paradise Tanning tenant space
- Temporarily shut down the SSDS fans at the Europa Pizza, Chic Nail & Spa, and Chinatown Restaurant.
- Conduct an additional SVI investigation during the next heating season at the four (4) tenant spaces, in accordance with the revised December 22, 2023 SVI Work Plan, to confirm SSDS operation is not required.

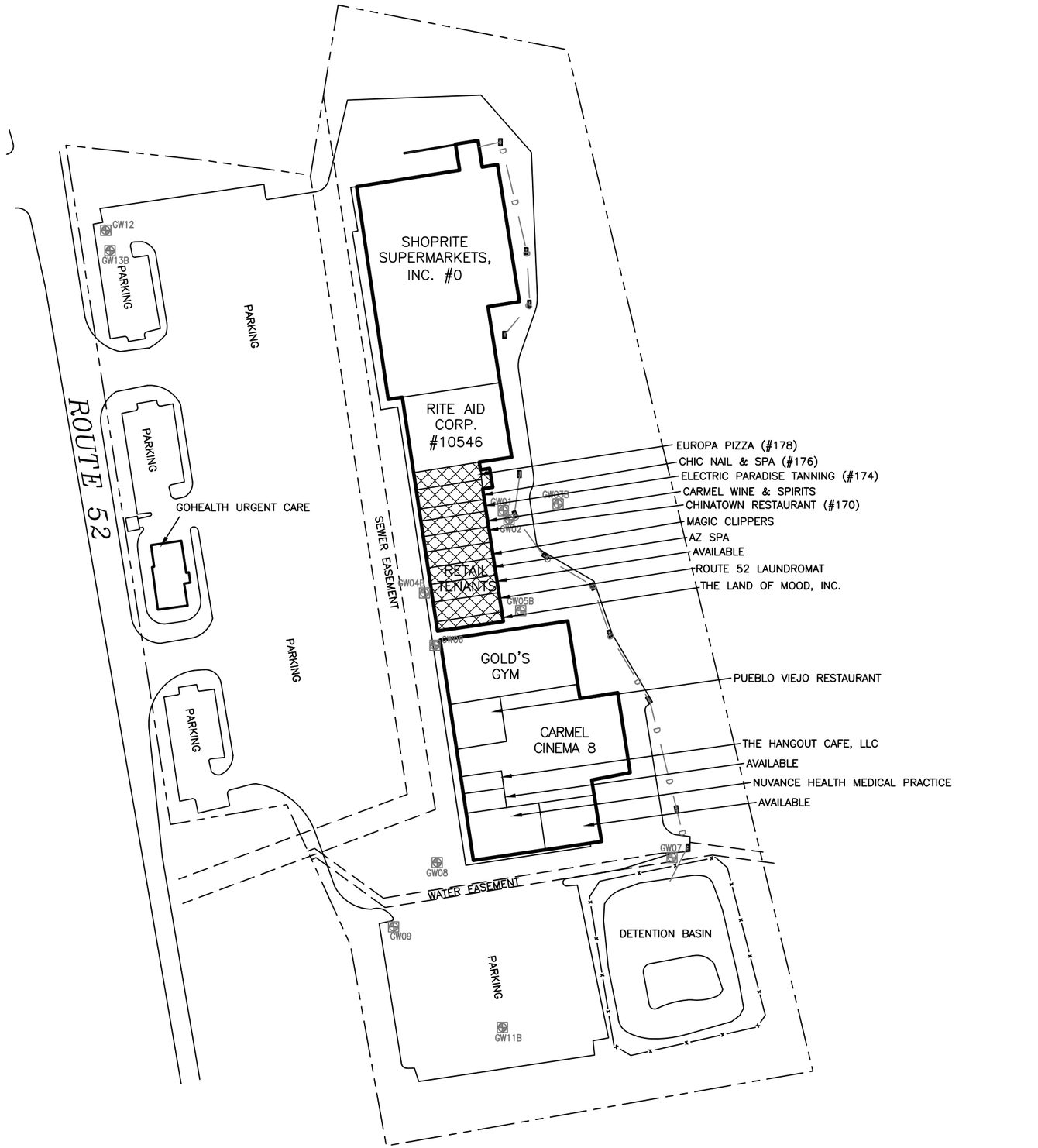
If you have any questions or comments regarding this memo, please contact Jessica Montaldo of GES at (800) 360-9405, extension 4328.

Sincerely,
Groundwater & Environmental Services, Inc.

Jessica Montaldo

Jessica Montaldo, PE
Project Engineer

Figures



Site Map

Regency Centers
Carmel Shop Rite Center
180 Gleneida Avemue
Carmel, New York

Drawn
M.H.
Designed
P.M.
Approved
M.D.

Date
01/21/25
Figure
1

Scale In Feet
0 150

Groundwater & Environmental Services, Inc.

N:\Graphics\Graphics\1100-Patterson-LHV\Misc\Urstadt Biddle Properties\Carmel\Carmel SM.dwg, B150 sm, 1/21/2025 1:54:37 PM, mhollister



N:\Graphics\Graphics\1100-Patterson-LHV\Misc\Urstadt Biddle Properties\Carmel\Carmel SM.dwg, B20, 11/18/2024 10:10:26 AM, mhollister

Sub-Slab Depressurization System Layout

Regency Centers
Carmel Shop Rite Center
180 Gleneida Avemue
Carmel, New York

Drawn
M.H.
Designed
J.M.
Approved
M.D.

Date
11/18/24
Figure
2

Scale In Feet
0 20

Groundwater & Environmental Services, Inc.

Tables

Table 1 - Historical Indoor Air Sampling Results for TCE and PCE

Sampling Date and Location	Additional Details on Location	Analyte	
		Trichloroethene (TCE)	Tetrachloroethene (PCE)
		ug/m^3	ug/m^3
PRE-REMEDIATION			
Subsurface Investigation (McLaren/Hart) (July 23, 1998)			
Air-01 (Drycleaner)	Now Electric Paradise Tanning	NA	330
Subsurface Investigation (McLaren/Hart) (July 1999)			
L-1 (Tony's Fine Wines & Spirits)	Now Carmel Wine & Spirits	ND	520
V-1 (Video Store)	Now Carmel Nails	ND	70
B-1 (Background)	Outdoors	ND	5
D-1 (Drycleaner - Front Counter)	Now Electric Paradise Tanning	ND	670
D-2 (Drycleaner - Front Counter)	Now Electric Paradise Tanning	ND	690
D-3 (Drycleaner - Clothing Storage)	Now Electric Paradise Tanning	ND	650
D-4 (Drycleaner - Lavatory)	Now Electric Paradise Tanning	ND	690
D-5 (Drycleaner - Storage Area)	Now Electric Paradise Tanning	ND	7,900
Air Sampling Investigation (VERTEX) (April 12, 2001)			
Liquor Store	Now Carmel Wine & Spirits	ND	38.7
Chinatown	Now Chinatown Restaurant	ND	66.5
Video Store	Now Carmel Nails	ND	217
Cleaner CRDC	Now Electric Paradise Tanning	ND	874.8
Cleaner CRC	Now Electric Paradise Tanning	ND	671.3
Cleaner BRDC	Now Electric Paradise Tanning	ND	1,024
Cleaner DCSA	Now Electric Paradise Tanning	ND	1,478.30
Cleaner Outside	Outdoors	ND	ND
POST REMEDIATION			
Air Sampling Investigation (VERTEX) (March 13, 2002)			
AS-1 (Drycleaner Front)	Now Electric Paradise Tanning	ND	739.02
AS-2 (Drycleaner Storage Area)	Now Electric Paradise Tanning	ND	1,030.56
AS-3 (Outside Drycleaner)	Outdoors	ND	ND
Air Sampling Investigation (VERTEX) (March 5, 2003)			
Nail Salon (formerly Video Store)	Now Carmel Nails	NA	30.5
Grapevine (Tony's Fine Wine & Spirits)	Now Carmel Wine & Spirits	NA	10.8
Chinatown	Now Chinatown Restaurant	NA	ND
SVE SYSTEM TRANSFORMED TO SSDS IN SEPTEMBER 2005, ADDITIONAL SSDS' INSTALLED IN MARCH 2010			
SVI Sampling Event #1 (GES) (March, 5, 2024)			
IA-1 Europa Pizza		ND<(0.17)	ND<(0.22)
IA-2 Europa Pizza		ND<(0.17)	ND<(0.22)
IA-3 Carmel Nails		ND<(0.17)	ND<(0.22)
IA-4 Carmel Nails		ND<(0.17)	ND<(0.22)
IA-5 Electric Paradise Tanning		60.7	74.6
IA-6 Electric Paradise Tanning		ND<(0.17)	0.68
IA-7 Chinatown Restaurant		0.51	0.22
IA-8 Chinatown Restaurant		ND<(0.17)	0.38
OA-1 Outdoors		ND<(0.17)	ND<(0.22)
OA-2 Outdoors		ND<(0.20)	ND<(0.25)
Indoor Air Resample at Electric Paradise Tanning (GES) (June 17, 2024)			
IA-5 Electric Paradise Tanning		ND<(0.17)	ND<(0.22)
IA-6 Electric Paradise Tanning		ND<(0.17)	0.39
SVI Sampling Event #2 (GES) (December 10, 2024)			
IA-1 Europa Pizza		ND<(0.17)	ND<(0.22)
IA-2 Europa Pizza		ND<(0.17)	ND<(0.22)
IA-3 Carmel Nails		ND<(0.17)	0.25
IA-4 Carmel Nails		ND<(17)	ND<(22)
IA-5 Electric Paradise Tanning		0.30	0.31
IA-6 Electric Paradise Tanning		ND<(0.17)	0.75
IA-7 Chinatown Restaurant		ND<(0.17)	ND<(0.22)
IA-8 Chinatown Restaurant		0.21	1.2
OA-1 Outdoors		ND<(0.17)	ND<(0.22)
OA-2 Outdoors		ND<(0.17)	ND<(0.22)

Notes:
Historic Data (prior to 2024) is from Table 3 of the Site Management Plan.
The indoor air data collected at sample location IA-5 in March 5, 2024 is presumed to be erroneous and was resampled on June 17, 2024.
µg/m^3 = micrograms per cubic meter
TCE = Trichloroethene
PCE = Tetrachloroethene
ND (ND<#) = Not detected. Concentration is less than the laboratory reporting limit.
NA = Not analyzed for that specific compound

Table 2 - Historical Soil Gas and/or Sub-Slab Sampling Results for TCE and PCE

Sampling Date and Location	Additional Details on Location	Analyte	
		Trichloroethene (TCE)	Tetrachloroethene (PCE)
		ug/m^3	ug/m^3
POST REMEDIATION			
SVE Confirmatory Sampling (VERTEX) (May 8, 2002)			
SVEIN (Soil Vapor Extraction Influent)	From piping installed at tenant space that is now Electric Paradise Tanning	54.9	49.6
Soil Gas Sampling Event (October 19, 2004)			
SG-1 Tony's Fine Wines & Spirits - Rear Storage Area	Now Carmel Wine & Spirits	24.8	7,490
SG-2 Tony's Fine Wines & Spirits - Entrance	Now Carmel Wine & Spirits	ND<(2.7)	379
SG-3 Express Communications - Center of Showroom	Now Magic Clippers	ND<(2.7)	15.8
SG-4 Redendo's Pizza - Rear Kitchen	Now Europa Pizza	ND<(2.7)	341
SG-5 Redendo's Pizza - Front Kitchen	Now Europa Pizza	ND<(2.7)	18.2
SG-6 Chinatown Restaurant - Behind Service Counter	Now Chinatown Restaurant	276	6,170
SVE SYSTEM TRANSFORMED TO SSDS IN SEPTEMBER 2005, ADDITIONAL SSDS' INSTALLED IN MARCH 2010			
SVI Sampling Event #1 (March, 5, 2024)			
SS-1 Europa Pizza		ND<(1.7)	8.1
SS-2 Europa Pizza		ND<(0.21)	5.6
SS-3 Carmel Nails		ND<(0.21)	11
SS-4 Carmel Nails		ND<(0.25)	6.3
SS-5 Electric Paradise Tanning		ND<(0.21)	0.41
SS-6 Electric Paradise Tanning		0.33	136
SS-7 Chinatown Restaurant		ND<(0.21)	1.1
SS-8 Chinatown Restaurant		ND<(0.21)	5.3
SVI Sampling Event #2 (December 10, 2024)			
SS-1 Europa Pizza		ND<(1.1)	12
SS-2 Europa Pizza		ND<(0.43)	26
SS-3 Carmel Nails		ND<(0.86)	164
SS-4 Carmel Nails		0.50	7.5
SS-5 Electric Paradise Tanning		23	12
SS-6 Electric Paradise Tanning		ND<(0.86)	1,040
SS-7 Chinatown Restaurant		0.27	84.1
SS-8 Chinatown Restaurant		0.30	14

Notes:
Historic Data (prior to 2024) is from Table 3 of the Site Management Plan.
µg/m^3 = micrograms per cubic meter
TCE = Trichloroethene
PCE = Tetrachloroethene
ND (ND<#) = Not detected. Concentration is less than the laboratory reporting limit.
NA = Not analyzed for that specific compound

Jessica Montaldo

To: Hubicki, Matthew S (DEC)
Cc: Ockerby, Renata E (HEALTH); Doroski, Melissa A (HEALTH); Michael C. DeGloria; Roth, Monica; Maloney, Kerry A (DEC)
Subject: RE: NYSDEC Site Number V00104 - Carmel Shop-Rite Center - SVI Summary Report Follow-up Memo

---

From: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Sent: Thursday, July 17, 2025 12:01 PM
To: Jessica Montaldo <JMontaldo@gesonline.com>
Cc: Ockerby, Renata E (HEALTH) <renata.ockerby@health.ny.gov>; Doroski, Melissa A (HEALTH) <melissa.doroski@health.ny.gov>; Michael C. DeGloria <MDeGloria@gesonline.com>; Roth, Monica <monicaroth@regencycenters.com>; Maloney, Kerry A (DEC) <kerry.maloney@dec.ny.gov>
Subject: RE: NYSDEC Site Number V00104 - Carmel Shop-Rite Center - SVI Summary Report Follow-up Memo

Stop – Look – Think – Decide: This e-mail came from outside of GES. Adhere to the guidelines of our ongoing GES cybersecurity awareness and training presentations. Be Aware – Be Smart

Jessica –

Based on our review of the 6/13/25 Soil Vapor Investigation (SVI) Summary Report Follow-up Memo and historical information provided by GES, we find the request to shut down and cap the 3 sub-slab depressurization (SSDS) systems at the Europa Pizza, Nail Spa, and Chinatown Restaurant tenant spaces during this summer/fall to be reasonable.
The SSDS located at the Electric Tanning SSDS should operate for several months, and then it should be shut down/capped for 30 days prior to SVI sampling.

All 4 tenant spaces should be sampled during the 2025-2026 Heating Season. Submit follow-up SVI Report in 2026 for review and comment.

Please proceed with finalizing Section 1.0 of the January 2025 SVI Report based on this memo, Department's/NYSDOH Comment Letter dated April 25, 2025, and these recommendations.

Thanks
Matt

Matthew Hubicki
Assistant Environmental Engineer, Remedial Bureau C
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: (518) 402-9605 | F: (518) 402-9679 | matthew.hubicki@dec.ny.gov
New York State Department of Environmental Conservation (ny.gov) | | |

From: Jessica Montaldo <JMontaldo@gesonline.com>
Sent: Tuesday, July 1, 2025 4:41 PM
To: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>

Cc: Ockerby, Renata E (HEALTH) <renata.ockerby@health.ny.gov>; Doroski, Melissa A (HEALTH) <melissa.doroski@health.ny.gov>; mdegloria@gesonline.com; Roth, Monica <monicaroth@regencycenters.com>; Maloney, Kerry A (DEC) <kerry.maloney@dec.ny.gov>; Jalanti, Caroline B (DEC) <Caroline.Jalanti@dec.ny.gov>
Subject: RE: NYSDEC Site Number V00104 - Carmel Shop-Rite Center - SVI Summary Report Follow-up Memo

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Understood. Thank you for the update Matt.

Jessica Montaldo, P.E.
Project Engineer

Office: 800.360.9405 ext. 4328
Mobile: 315.416.8979

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Safety: Plan, Prevent, Protect

Licensed PE in NY

From: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Sent: Tuesday, July 1, 2025 3:35 PM
To: Jessica Montaldo <JMontaldo@gesonline.com>
Cc: Ockerby, Renata E (HEALTH) <renata.ockerby@health.ny.gov>; Doroski, Melissa A (HEALTH) <melissa.doroski@health.ny.gov>; Michael C. DeGloria <MDeGloria@gesonline.com>; Roth, Monica <monicaroth@regencycenters.com>; Maloney, Kerry A (DEC) <kerry.maloney@dec.ny.gov>; Jalanti, Caroline B (DEC) <Caroline.Jalanti@dec.ny.gov>
Subject: RE: NYSDEC Site Number V00104 - Carmel Shop-Rite Center - SVI Summary Report Follow-up Memo

Stop – Look – Think – Decide: This e-mail came from outside of GES. Adhere to the guidelines of our ongoing GES cybersecurity awareness and training presentations. Be Aware – Be Smart

Hi Jessica – I was out of the office today, and we haven't had time to fully review this memo and discuss internally based upon on our last meeting with GES before submitting the final SVI Report.

Let me follow-up with DOH, and get back to GES after the holiday if another meeting/discussion is necessary.

Thanks
Matt

Matthew Hubicki
Assistant Environmental Engineer, Remedial Bureau C
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: (518) 402-9605 | F: (518) 402-9679 | matthew.hubicki@dec.ny.gov
New York State Department of Environmental Conservation (ny.gov) | | |

From: Jessica Montaldo <JMontaldo@gesonline.com>
Sent: Tuesday, July 1, 2025 10:02 AM
To: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Cc: Ockerby, Renata E (HEALTH) <renata.ockerby@health.ny.gov>; Doroski, Melissa A (HEALTH) <melissa.doroski@health.ny.gov>; mdegloria@gesonline.com; Roth, Monica <monicaroth@regencycenters.com>
Subject: RE: NYSDEC Site Number V00104 - Carmel Shop-Rite Center - SVI Summary Report Follow-up Memo

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Good morning – I wanted to check in on the status of the Memo that GES submitted in response to the SVI Summary Report disapproval letter. Please let us know if you have any questions or would like to discuss. GES will then submit SVI Summary Report Revision 1.0, based on the discussion.

Thanks,
Jessica

Jessica Montaldo, P.E.
Project Engineer

Office: 800.360.9405 ext. 4328
Mobile: 315.416.8979

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Safety: Plan, Prevent, Protect

Licensed PE in NY

From: Jessica Montaldo
Sent: Friday, June 13, 2025 2:50 PM
To: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Cc: Ockerby, Renata E (HEALTH) <renata.ockerby@health.ny.gov>; Doroski, Melissa A (HEALTH) <melissa.doroski@health.ny.gov>; MDeGloria@gesonline.com; Roth, Monica <monicaroth@regencycenters.com>
Subject: NYSDEC Site Number V00104 - Carmel Shop-Rite Center - SVI Summary Report Follow-up Memo

Good afternoon,

Following the disapproval received by the NYSDEC for the SVI Summary Report (dated January 24, 2025) and the May 27, 2025 conference call with NYSDEC and NYSDOH, GES has drafted the attached Memo for the subject site to discuss historic conditions and resubmit recommendations. Please review the attached memo and let us know if you have any questions and/or comments.

The SVI Summary Report Revision 1.0 will be finalized and submitted once we receive feedback on the memo.

Thank you,
Jessica

Jessica Montaldo, P.E.
Project Engineer

Office: 800.360.9405 ext. 4328
Mobile: 315.416.8979
jmontaldo@GESonline.com

Groundwater & Environmental Services, Inc.
1777 Veterans Memorial Highway, Suite 20
Islandia, NY 11749

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Appendix B – NYSDOH Indoor Air Quality Questionnaire and Building Inventory Forms

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

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

Preparer's Name: Liam Maher Date/Time Prepared: 11/18/2025 / 12:00

Preparer's Affiliation: GES Technician Phone No.: 866-839-5195

Purpose of Investigation: soil vapor intrusion sampling event

1. OCCUPANT:

Interviewed: Y✓ / N

Last Name: NA First Name: Carlos

Address: 178 Route 52 - Europa Pizza

County: NA

Home Phone: NA Office Phone: NA

Number of Occupants/persons at this location 3 Age of Occupants NA

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

Interviewed: Y / N✓

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: ___ Office Phone: ___

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use ✓
Industrial	Church	Other: _____

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

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

If multiple units, how many? ___

If the property is commercial, type?

Business Type(s) Restaurant (Europa Pizza)

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

Other characteristics:

Number of floors 1 Building age NA

Is the building insulated? Y✓ / N

How air tight? Tight / Average ✓ / Not Tight

4. AIRFLOW

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

Airflow between floors
NA

Airflow near source
NA

Outdoor air infiltration
Yes, back door usually ajar

Infiltration into air ducts
Yes, has air ducts

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

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

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

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

NA

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

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

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

The primary type of fuel used is:

Natural Gas ✓	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Gas

Boiler/furnace located in: Basement / Outdoors / Main Floor / Other NA

Air conditioning: Central Air ✓ / Window units / Open Windows / None

Are there air distribution ducts present? Y✓ / N

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

Good condition

---

7. OCCUPANCY

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

Level	**General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Restaurant (Europa Pizza)
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

j. Has painting/staining been done in the last 6 months? Y / N✓
Where & When? –

k. Is there new carpet, drapes or other textiles? Y / N✓

Where & When? –

l. Have air fresheners been used recently? Y / N✓

When & Type? –

m. Is there a kitchen exhaust fan? Y✓ / N

If yes, where vented? Roof

n. Is there a bathroom exhaust fan? Y / N✓

If yes, where vented?

o. Is there a clothes dryer? Y / N✓

If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N✓

When & Type? –

Are there odors in the building? Y / N✓

If yes, please describe: _____

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

If yes, what types of solvents are used? _____

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

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

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service

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

9. WATER AND SEWAGE

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

Sewage Disposal: Public Sewer ✓ Septic Tank Leach Field Dry Well Other: _

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

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

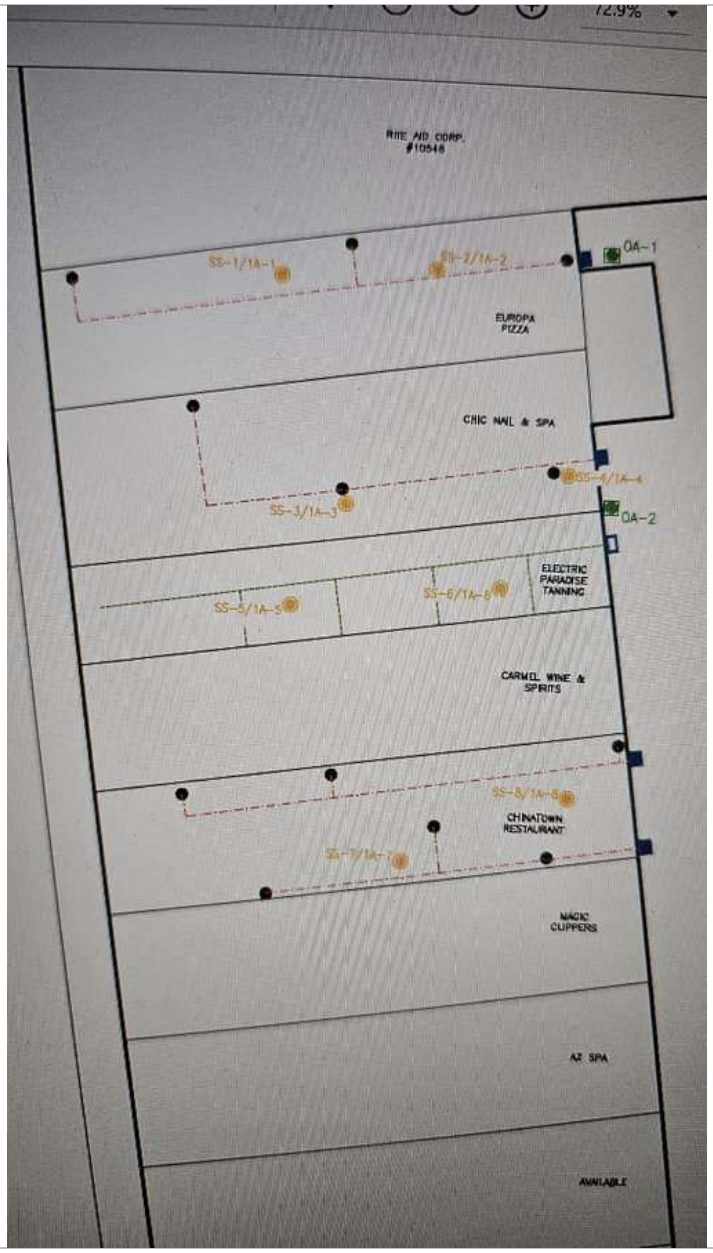
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement:

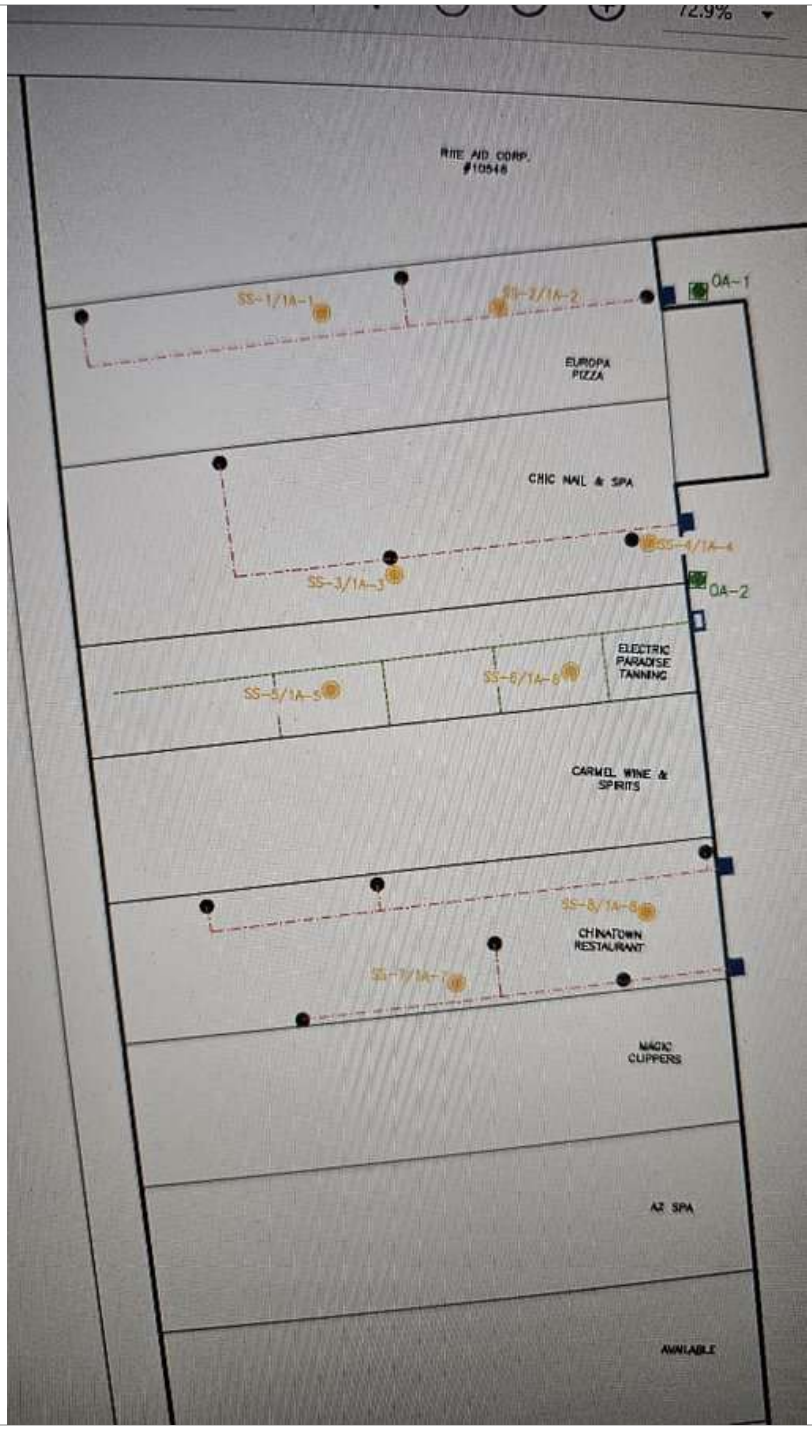
First Floor:


RITE AID CORP.
#10548
SS-1/1A-1
SS-2/1A-2
OA-1
EUROPA
PIZZA
CHIC NAIL & SPA
SS-3/1A-3
SS-4/1A-4
OA-2
SS-5/1A-5
SS-6/1A-6
ELECTRIC
PARADISE
TANNING
CARMEL WINE &
SPIRITS
SS-8/1A-8
CHINATOWN
RESTAURANT
SS-7/1A-7
MAGIC
CLIPPERS
AZ SPA
AVAILABLE

12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE systems MiniRAE 3000 PID (ppbRAE)

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
--	No Products Inventoried	--	--	--	--	--

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

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

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

Preparer's Name: Liam Maher Date/Time Prepared: 11/18/2025 / 12:56

Preparer's Affiliation: GES Technician Phone No.: 866-839-5195

Purpose of Investigation: soil vapor intrusion sampling event

1. OCCUPANT:

Interviewed: Y✓ / N

Last Name: NA First Name: Yongyong

Address: 176 Route 52 – Chic Nail & Spa

County: NA

Home Phone: NA Office Phone: NA

Number of Occupants/persons at this location 8 Age of Occupants NA

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

Interviewed: Y / N✓

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: ___ Office Phone: ___

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use ✓
Industrial	Church	Other: _____

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

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

If multiple units, how many? ___

If the property is commercial, type?

Business Type(s) Nail salon

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

Other characteristics:

Number of floors 1 Building age NA

Is the building insulated? Y✓ / N

How air tight? Tight / Average ✓ / Not Tight

4. AIRFLOW

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

Airflow between floors
NA

Airflow near source
NA

Outdoor air infiltration
NA

Infiltration into air ducts
NA

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

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

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

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

NA

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

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

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

The primary type of fuel used is:

Natural Gas ✓	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Gas

Boiler/furnace located in: Basement / Outdoors / Main Floor / Other NA

Air conditioning: Central Air ✓ / Window units / Open Windows / None

Are there air distribution ducts present? Y✓ / N

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

Good condition

7. OCCUPANCY

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

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Nail salon
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

j. Has painting/staining been done in the last 6 months? Y / N✓
Where & When? –

k. Is there new carpet, drapes or other textiles? Y / N✓

Where & When? –

l. Have air fresheners been used recently? Y / N✓

When & Type? –

m. Is there a kitchen exhaust fan? Y / N ✓

If yes, where vented?

n. Is there a bathroom exhaust fan? Y✓ / N

If yes, where vented? Roof

o. Is there a clothes dryer? Y✓ / N

If yes, is it vented outside? Y✓ / N

p. Has there been a pesticide application? Y / N✓

When & Type? –

Are there odors in the building? Y / N✓

If yes, please describe: _____

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

If yes, what types of solvents are used? Nail polish/remover

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

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

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service

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

9. WATER AND SEWAGE

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

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

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

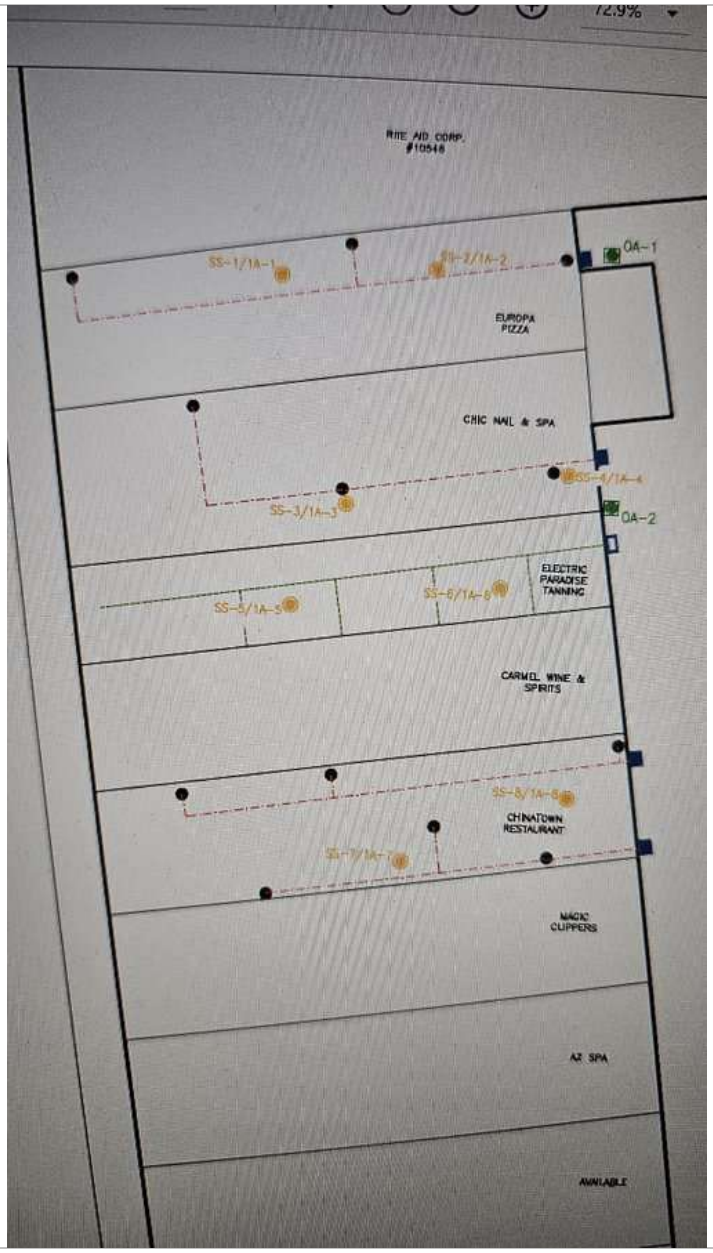
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement:

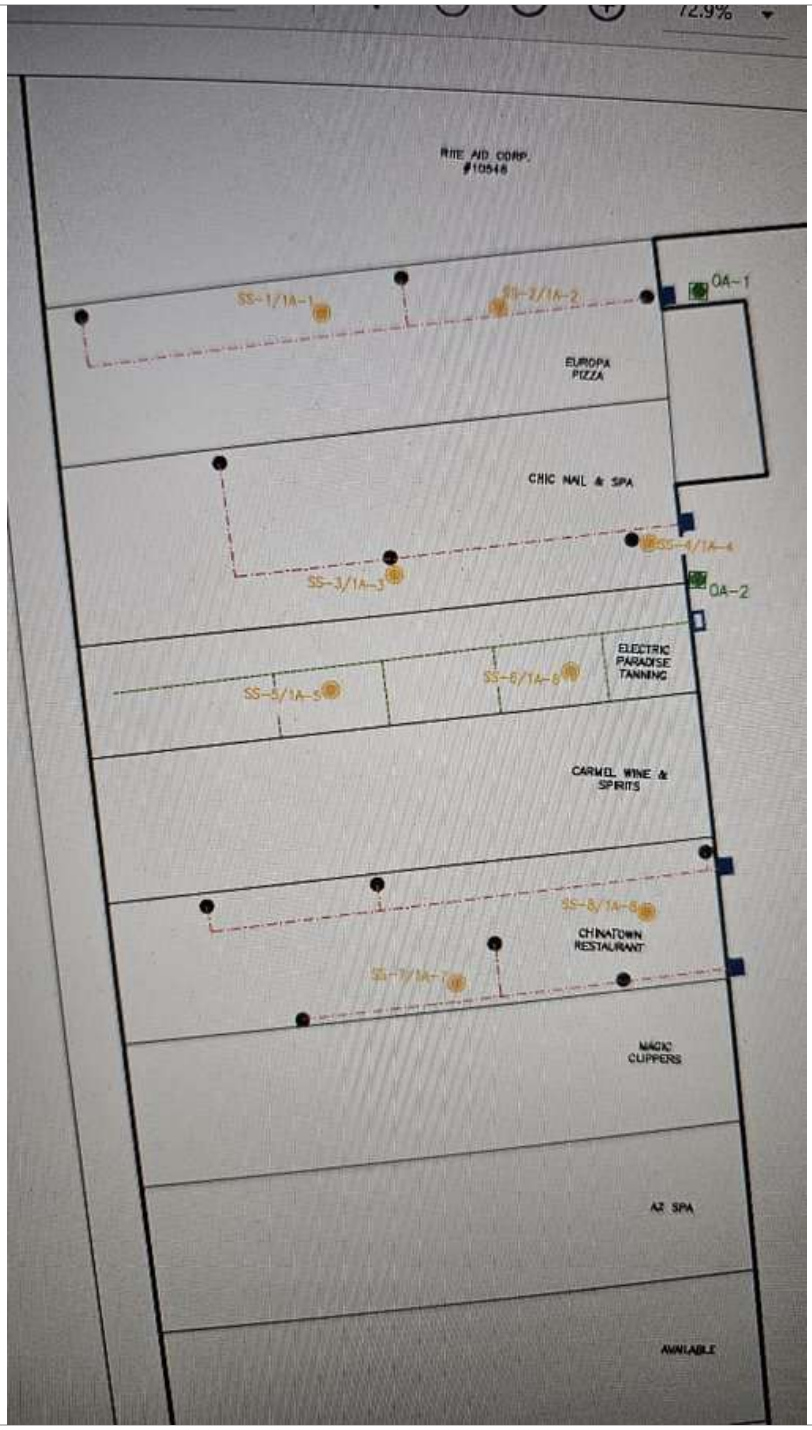
First Floor:


RITE AID CORP.
#10548
SS-1/1A-1
SS-2/1A-2
OA-1
EUROPA
PIZZA
CHIC NAIL & SPA
SS-3/1A-3
SS-4/1A-4
OA-2
SS-5/1A-5
SS-6/1A-6
ELECTRIC
PARADISE
TANNING
CARMEL WINE &
SPIRITS
SS-8/1A-8
CHINATOWN
RESTAURANT
SS-7/1A-7
MAGIC
CLIPPERS
AZ SPA
AVAILABLE

12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE systems MiniRAE 3000 PID (ppbRAE)

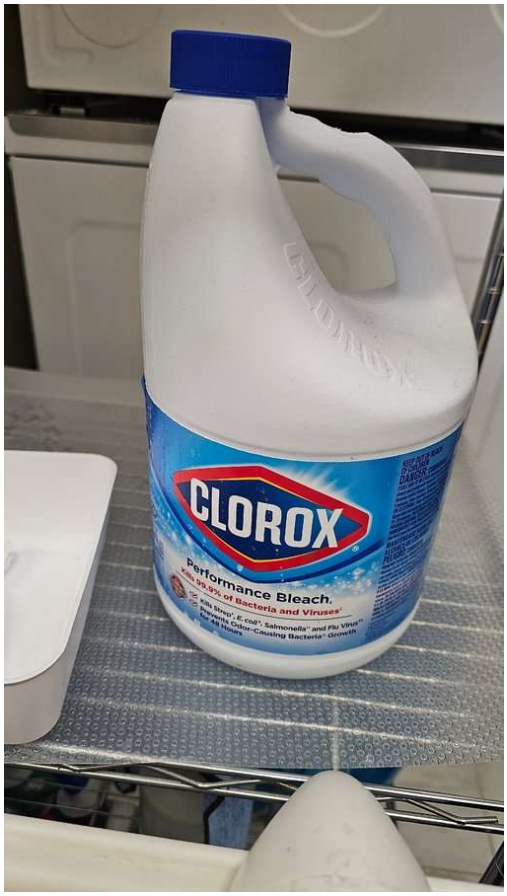
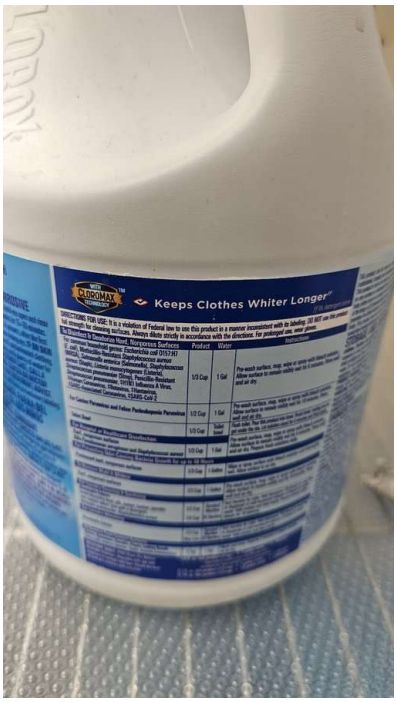
List specific products found in the residence that have the potential to affect indoor air quality.

Location	**Product Description**	**Size (units)**	**Condition***	**Chemical Ingredients**	**Field Instrument Reading (units)**	**Photo ** Y / N**
Backroom	Bleach	Gallon	U	See photo	0.00	Yes
Backroom	Pinesol	.5 gallon	U	See photo	0.00	Yes

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

PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Bleach
Project:	1192343	**Location of Product:**	Backroom
Site Location:	Chic Nail & Spa	**Date:**	11/18/2025

Product Front	
Product Back	

PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Pinesol
Project:	1192343	**Location of Product:**	Backroom
Site Location:	Chic Nail & Spa	**Date:**	11/18/2025

Product Front	
Product Back	

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

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

Preparer's Name: Liam Maher Date/Time Prepared: 11/18/2025 / 15:38

Preparer's Affiliation: GES Technician Phone No.: 866-839-5195

Purpose of Investigation: soil vapor intrusion sampling event

1. OCCUPANT:

Interviewed: Y✓ / N

Last Name: NA First Name: Wong

Address: 170 Route 52 – Chinatown Restaurant

County: NA

Home Phone: NA Office Phone: NA

Number of Occupants/persons at this location 3 Age of Occupants NA

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

Interviewed: Y / N✓

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: ___ Office Phone: ___

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use ✓
Industrial	Church	Other: _____

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

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

If multiple units, how many? ___

If the property is commercial, type?

Business Type(s) Restaurant (Chinatown Restaurant)

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

Other characteristics:

Number of floors 1 Building age NA

Is the building insulated? Y✓ / N

How air tight? Tight / Average ✓ / Not Tight

4. AIRFLOW

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

Airflow between floors
NA

Airflow near source
NA

Outdoor air infiltration
Backdoor is open all day

Infiltration into air ducts
NA

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

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

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

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

NA

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

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

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

The primary type of fuel used is:

Natural Gas ✓	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Gas

Boiler/furnace located in: Basement / Outdoors / Main Floor / Other NA

Air conditioning: Central Air ✓ / Window units / Open Windows / None

Are there air distribution ducts present? Y✓ / N

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

Good

7. OCCUPANCY

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

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Restaurant (Chinatown Restaurant)
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

j. Has painting/staining been done in the last 6 months? Y / N✓
Where & When? –

k. Is there new carpet, drapes or other textiles? Y / N✓

Where & When? –

l. Have air fresheners been used recently? Y / N✓

When & Type? –

m. Is there a kitchen exhaust fan? Y✓ / N

If yes, where vented? Roof

n. Is there a bathroom exhaust fan? Y✓ / N

If yes, where vented? Roof

o. Is there a clothes dryer? Y / N✓

If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N✓

When & Type? –

Are there odors in the building? Y / N✓

If yes, please describe: _____

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

If yes, what types of solvents are used? _____

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

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

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service

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

9. WATER AND SEWAGE

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

Sewage Disposal: Public Sewer ✓ Septic Tank Leach Field Dry Well Other: _

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

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

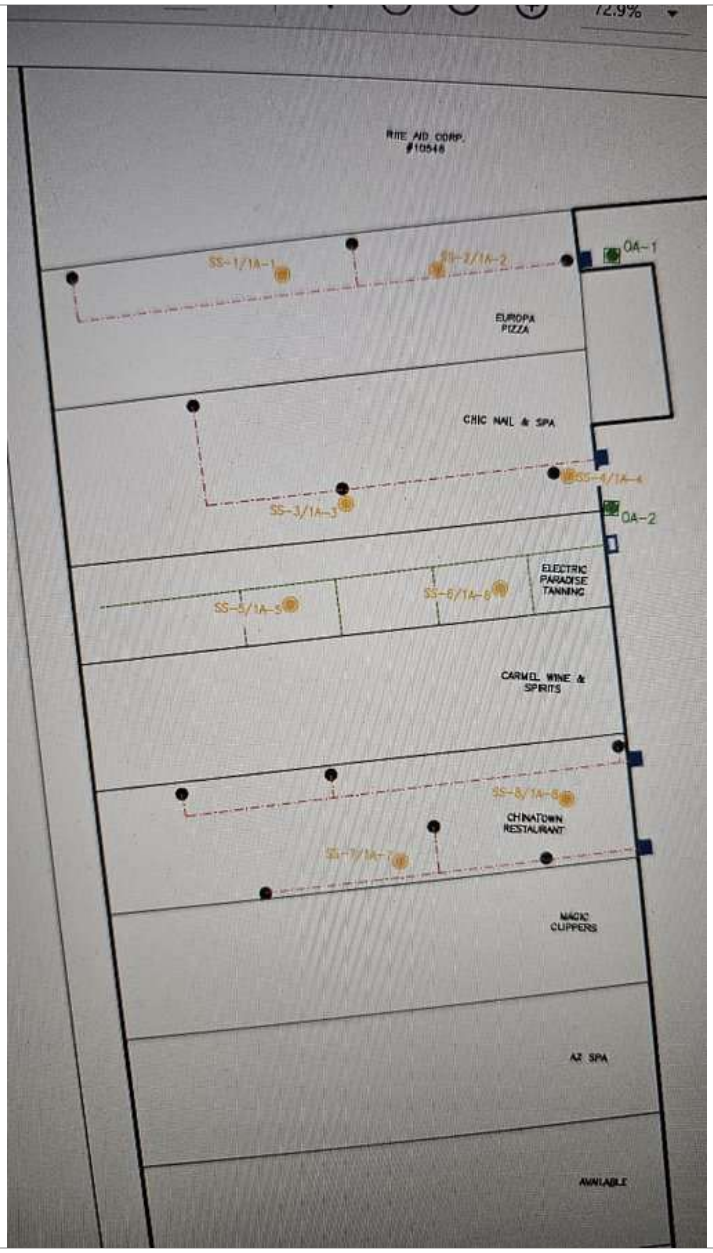
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement:

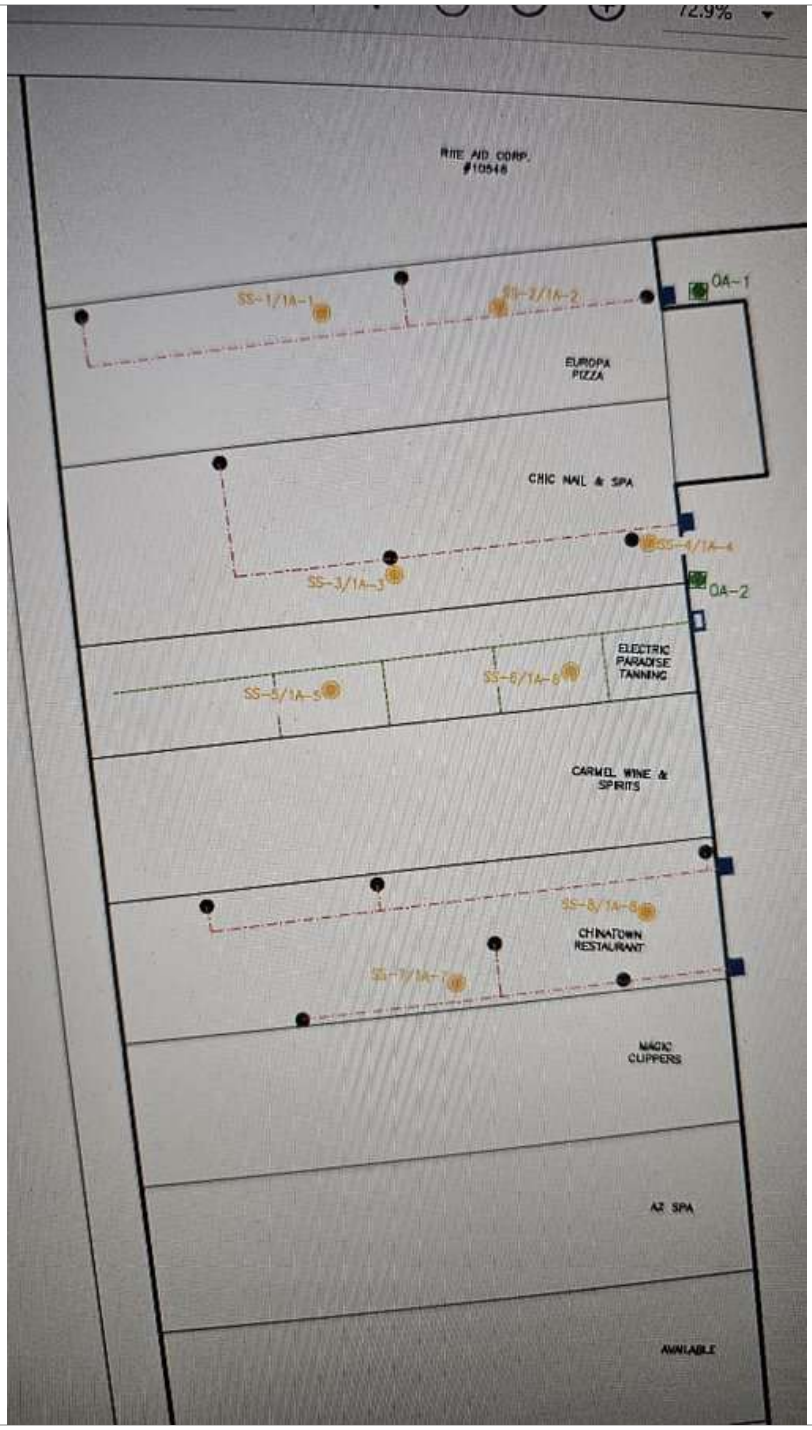
First Floor:


RITE AID CORP.
#10548
SS-1/1A-1
SS-2/1A-2
OA-1
EUROPA
PIZZA
CHIC NAIL & SPA
SS-3/1A-3
SS-4/1A-4
OA-2
SS-5/1A-5
SS-6/1A-6
ELECTRIC
PARADISE
TANNING
CARMEL WINE &
SPIRITS
SS-8/1A-8
CHINATOWN
RESTAURANT
SS-7/1A-7
MAGIC
CLIPPERS
AZ SPA
AVAILABLE

12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE systems MiniRAE 3000 PID (ppbRAE)

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
--	No Products Inventoried	--	--	--	--	--

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

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

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

Preparer's Name: Liam Maher Date/Time Prepared: 11/18/2025 / 15:12

Preparer's Affiliation: GES Technician Phone No.: 866-839-5195

Purpose of Investigation: soil vapor intrusion sampling event

1. OCCUPANT:

Interviewed: Y✓ / N

Last Name: NA First Name: Alyssa

Address: 174 Route 52 – Electric Paradise Tanning

County: NA

Home Phone: Na Office Phone: NA

Number of Occupants/persons at this location 1 Age of Occupants NA

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

Interviewed: Y / N✓

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: ___ Office Phone: ___

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use ✓
Industrial	Church	Other: _____

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

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

If multiple units, how many? ___

If the property is commercial, type?

Business Type(s) Tanning salon

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

Other characteristics:

Number of floors 1 Building age NaA

Is the building insulated? Y✓ / N

How air tight? Tight / Average ✓ / Not Tight

4. AIRFLOW

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

Airflow between floors
NA

Airflow near source
NA

Outdoor air infiltration
NA

Infiltration into air ducts
NA

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

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

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

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

NA

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

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

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

The primary type of fuel used is:

Natural Gas ✓	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Gas

Boiler/furnace located in: Basement / Outdoors / Main Floor / Other NA

Air conditioning: Central Air ✓ / Window units / Open Windows / None

Are there air distribution ducts present? Y✓ / N

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

Good condition

---

7. OCCUPANCY

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

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Tanning salon
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

j. Has painting/staining been done in the last 6 months? Y / N✓
Where & When? –

k. Is there new carpet, drapes or other textiles? Y / N✓

Where & When? –

l. Have air fresheners been used recently? Y / N✓

When & Type? –

m. Is there a kitchen exhaust fan? Y / N ✓

If yes, where vented?

n. Is there a bathroom exhaust fan? Y✓ / N

If yes, where vented? Roof

o. Is there a clothes dryer? Y✓ / N

If yes, is it vented outside? Y✓ / N

p. Has there been a pesticide application? Y / N✓

When & Type? –

Are there odors in the building? Y / N✓

If yes, please describe: _____

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

If yes, what types of solvents are used? _____

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

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

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service

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

9. WATER AND SEWAGE

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

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

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

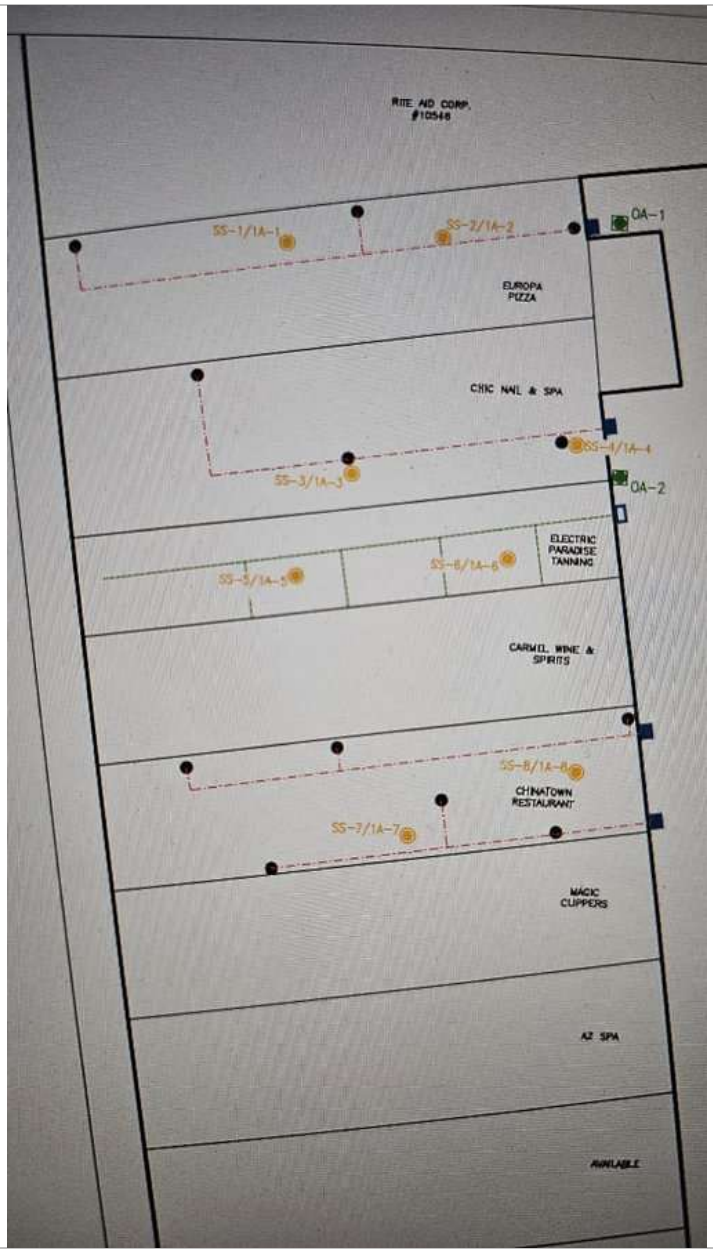
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement:

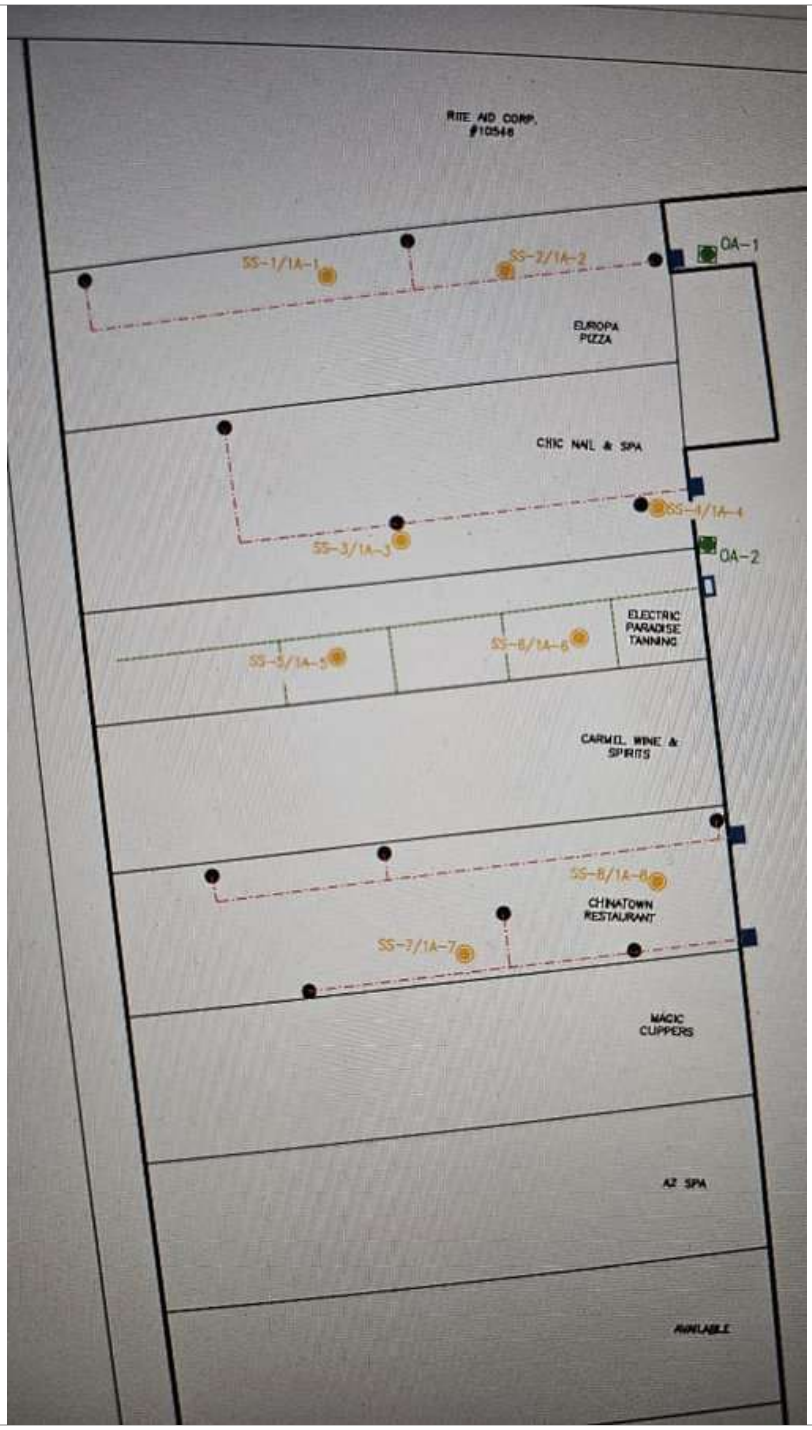
First Floor:


RITE AID CORP.
#10548
SS-1/1A-1
SS-2/1A-2
OA-1
EUROPA
PIZZA
CHIC NAIL & SPA
SS-4/1A-4
SS-3/1A-3
OA-2
ELECTRIC
PARADISE
TANNING
SS-5/1A-5
SS-6/1A-6
CARMEL WINE &
SPIRITS
SS-8/1A-8
CHINATOWN
RESTAURANT
SS-7/1A-7
MAGIC
CLIPPERS
AZ SPA
AVAILABLE

12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE systems MiniRAE 3000 PID (ppbRAE)

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

Location	**Product Description**	**Size (units)**	**Condition***	**Chemical Ingredients**	**Field Instrument Reading (units)**	**Photo ** Y / N**
Storage room	Contact adhesive	Qt	U	See Photo	0.00	Y
Storage room	Pines9l	.5 gal	U	See Photo	0.00	Y
Storage room	Clorox multi purpose cleaner	Gal	U	See Photo	0.00	Y
Storage room	Disinfectant sanitizer	Gal	U	See Photo	0.00	Y
Storage room	Paint(various)	Gal	U	NA – could not access	0.00	Y
Storage room	Disinfectant sanitizer	Gal	U	See Photo	0.00	Y
Storage room	Sanitizer	Gal	U	See Photo	0.00	Y

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

PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Contact adhesive
Project:	1192343	**Location of Product:**	Storage room
Site Location:	Electric Paradise	**Date:**	11/18/2025

Product Front	
Product Back	

PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Pinesol
Project:	1192343	**Location of Product:**	Storage room
Site Location:	Electric Paradise	**Date:**	11/18/2025

Product Front	
Product Back	

PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Clorox multi purpose cleaner
Project:	1192343	**Location of Product:**	Storage room
Site Location:	Electric Paradise	**Date:**	11/18/2025

Product Front	
Product Back	

PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Disinfectant sanitizer
Project:	1192343	**Location of Product:**	Storage room
Site Location:	Electric Paradise	**Date:**	11/18/2025

Product Front	
Product Back	

PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Paint(various)
Project:	1192343	**Location of Product:**	Storage room
Site Location:	Electric Paradise	**Date:**	11/18/2025

Product Front	
Product Back	

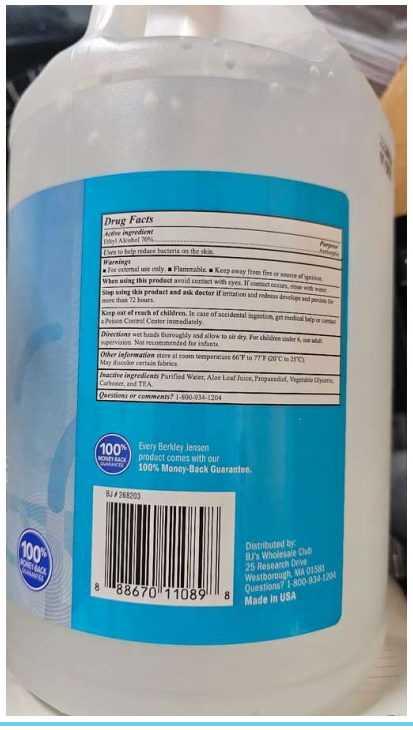
PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Disinfectant sanitizer
Project:	1192343	**Location of Product:**	Storage room
Site Location:	Electric Paradise	**Date:**	11/18/2025

Product Front	
Product Back	

PRODUCT INVENTORY PHOTOGRAPHS

Client:	Regency Center	**Product Description:**	Sanitizer
Project:	1192343	**Location of Product:**	Storage room
Site Location:	Electric Paradise	**Date:**	11/18/2025

Product Front	
Product Back	

Appendix C – Photograph Log

Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	1
Date:	11/18/2025
Direction:	Na

Comments:

SS-3



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	2
Date:	11/18/2025
Direction:	Na

Comments:

IA-3



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	3
Date:	11/18/2025
Direction:	Na

Comments:

SS-4/IA-4



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 170 Route 52, Chinatown Restaurant

Photo #:	1
Date:	11/18/2025
Direction:	Na

Comments:

SS-7/IA-7



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 170 Route 52, Chinatown Restaurant

Photo #:	2
Date:	11/18/2025
Direction:	Na

Comments:

SS-8/IA-8



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	1
Date:	11/18/2025
Direction:	NA

Comments:

SS-5/SS-DUP/IA-5



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	2
Date:	11/18/2025
Direction:	NA

Comments:

SS-6



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	3
Date:	11/18/2025
Direction:	NA
Comments: IA-6/IA-DUP	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	1
Date:	11/18/2025
Direction:	NA

Comments:

SS-1/IA-1



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	2
Date:	11/18/2025
Direction:	NA

Comments:

SS-2/IA-2



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	3
Date:	11/18/2025
Direction:	NA

Comments:

OA-1



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	1
Date:	11/17/2025
Direction:	NA
Comments: SS-1 PID	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	2
Date:	11/17/2025
Direction:	NA
Comments: SS-2 PID	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	3
Date:	11/17/2025
Direction:	NA

Comments:

SS-1 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	4
Date:	11/17/2025
Direction:	NA

Comments:

SS-1 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	5
Date:	11/17/2025
Direction:	NA

Comments:

SS-2 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 178 Route 52, Europa Pizza

Photo #:	6
Date:	11/17/2025
Direction:	NA

Comments:

SS-2 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	1
Date:	11/17/2025
Direction:	NA
Comments: SS-3 PID	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	2
Date:	11/17/2025
Direction:	NA
Comments: SS-4 PID	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	3
Date:	11/17/2025
Direction:	NA

Comments:

SS-3 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	4
Date:	11/17/2025
Direction:	NA

Comments:

SS-3 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	5
Date:	11/17/2025
Direction:	NA

Comments:

SS-4 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 176 Route 52, Chic Nail Salon

Photo #:	6
Date:	11/17/2025
Direction:	NA

Comments:

SS-4 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	1
Date:	11/17/2025
Direction:	NA
Comments: SS-5 PID	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	2
Date:	11/17/2025
Direction:	NA
Comments: SS-6 PID	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	3
Date:	11/17/2025
Direction:	NA

Comments:

SS-5 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	4
Date:	11/17/2025
Direction:	NA

Comments:

SS-5 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	5
Date:	11/17/2025
Direction:	NA
Comments: SS-6 Helium test	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	6
Date:	11/17/2025
Direction:	NA
Comments: SS-6 Helium test	



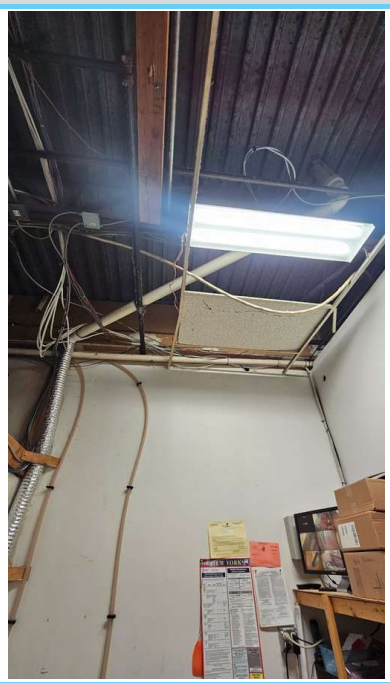
Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	7
Date:	11/17/2025
Direction:	NA
Comments: Dryer vented to roof	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 174 Route 52, Electric Paradise Tanning

Photo #:	8
Date:	11/17/2025
Direction:	NA
Comments: Dryer vented to roof	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 170 Route 52, Chinatown Restaurant

Photo #:	1
Date:	11/17/2025
Direction:	NA
Comments: SS-7 PID	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 170 Route 52, Chinatown Restaurant

Photo #:	2
Date:	11/17/2025
Direction:	NA
Comments: SS-8 PID	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 170 Route 52, Chinatown Restaurant

Photo #:	3
Date:	11/17/2025
Direction:	NA

Comments:

SS-7 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 170 Route 52, Chinatown Restaurant

Photo #:	4
Date:	11/17/2025
Direction:	NA

Comments:

SS-7 Helium test



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 170 Route 52, Chinatown Restaurant

Photo #:	5
Date:	11/17/2025
Direction:	NA
Comments: SS-8 Helium test	



Client: Regency Center **Site Name:** Carmel ShopRite Center	**Project:** 1192343 **Site Location:** 170 Route 52, Chinatown Restaurant

Photo #:	6
Date:	11/17/2025
Direction:	NA
Comments: SS-8 Helium test	



Appendix D – Laboratory Analytical Results

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

Regency Center Carmel ShopRite Plaza, Carmel, NY

1192343-02-210

SGS Job Number: JE23794

Sampling Date: 11/18/25



Report to:

Groundwater & Environmental Services
63 East Street Suite 3
Pawling, NY 12564
MDegloria@GESOnline.com; neregion@gesonline.com

ATTN: Michael DeGloria

Total number of pages in report: **1653**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Jeremy Vienneau 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Groundwater & Environmental Services

Job No: JE23794

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JE23794-1	11/18/25	16:40	LM	11/20/25	AIR	Ambient Air Comp.	OA-1
JE23794-2	11/18/25	15:58	LM	11/20/25	AIR	Ambient Air Comp.	OA-2

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Groundwater & Environmental Services	**Job No:**	JE23794
Site:	Regency Center Carmel ShopRite Plaza, Carmel, NY	**Report Date**	12/1/2025 6:41:30 AM

On 11/20/2025, 2 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS). An SGS Job Number of JE23794 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V5W2301

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23789-3DUP were used as the QC samples indicated.
- The duplicate RPD(s) for Vinyl Acetate, Benzene, Chloroform, Chloromethane, Cyclohexane, Ethylbenzene, Hexane, m,p-Xylene, m-Dichlorobenzene, Methylene chloride, o-Xylene, Tetrahydrofuran, Xylenes (total) are outside control limits for sample JE23789-3DUP. RPD acceptable due to low DUP and sample concentrations.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE23794
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE23794-1	**OA-1**					
Acetone (2-Propanone)		3.0	0.16		ppbv	TO-15
Benzene		0.18	0.16		ppbv	TO-15
Chloromethane		0.52	0.16		ppbv	TO-15
Carbon tetrachloride		0.076	0.032		ppbv	TO-15
Dichlorodifluoromethane		0.47	0.16		ppbv	TO-15
Ethanol		3.7	0.40		ppbv	TO-15
Ethyl Acetate		2.9	0.16		ppbv	TO-15
Hexane		0.19	0.16		ppbv	TO-15
Isopropyl Alcohol		0.38	0.16		ppbv	TO-15
Methylene chloride		0.43	0.16		ppbv	TO-15
Trichlorofluoromethane		0.26	0.080		ppbv	TO-15
Acetone (2-Propanone)		7.1	0.38		ug/m3	TO-15
Benzene		0.58	0.51		ug/m3	TO-15
Chloromethane		1.1	0.33		ug/m3	TO-15
Carbon tetrachloride		0.48	0.20		ug/m3	TO-15
Dichlorodifluoromethane		2.3	0.79		ug/m3	TO-15
Ethanol		7.0	0.75		ug/m3	TO-15
Ethyl Acetate		10	0.58		ug/m3	TO-15
Hexane		0.67	0.56		ug/m3	TO-15
Isopropyl Alcohol		0.93	0.39		ug/m3	TO-15
Methylene chloride		1.5	0.56		ug/m3	TO-15
Trichlorofluoromethane		1.5	0.45		ug/m3	TO-15
JE23794-2	**OA-2**					
Acetone (2-Propanone)		3.0	0.16		ppbv	TO-15
Benzene		0.22	0.16		ppbv	TO-15
Chloromethane		0.49	0.16		ppbv	TO-15
Dichlorodifluoromethane		0.44	0.16		ppbv	TO-15
Ethanol		2.5	0.40		ppbv	TO-15
Ethyl Acetate		7.6	0.16		ppbv	TO-15
Hexane		0.21	0.16		ppbv	TO-15
Isopropyl Alcohol		0.24	0.16		ppbv	TO-15
Methylene chloride		0.28	0.16		ppbv	TO-15
Toluene		0.16	0.16		ppbv	TO-15
Trichlorofluoromethane		0.26	0.080		ppbv	TO-15
Acetone (2-Propanone)		7.1	0.38		ug/m3	TO-15
Benzene		0.70	0.51		ug/m3	TO-15
Chloromethane		1.0	0.33		ug/m3	TO-15
Dichlorodifluoromethane		2.2	0.79		ug/m3	TO-15
Ethanol		4.7	0.75		ug/m3	TO-15
Ethyl Acetate		27	0.58		ug/m3	TO-15
Hexane		0.74	0.56		ug/m3	TO-15

Summary of Hits

Job Number: JE23794
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropyl Alcohol		0.59	0.39		ug/m3	TO-15
Methylene chloride		0.97	0.56		ug/m3	TO-15
Toluene		0.60	0.60		ug/m3	TO-15
Trichlorofluoromethane		1.5	0.45		ug/m3	TO-15

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	OA-1		
Lab Sample ID:	JE23794-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A1654	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60021.D	1	11/25/25 01:58	BK	n/a	n/a	V5W2301
Run #2							

	Initial Volume
Run #1	500 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	3.0	0.16	ppbv		7.1	0.38	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	0.18	0.16	ppbv		0.58	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	ND	0.16	ppbv		ND	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.52	0.16	ppbv		1.1	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.076	0.032	ppbv		0.48	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.47	0.16	ppbv		2.3	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OA-1		
Lab Sample ID:	JE23794-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A1654	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	3.7	0.40	ppbv		7.0	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	2.9	0.16	ppbv		10	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	ND	0.16	ppbv		ND	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.19	0.16	ppbv		0.67	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.38	0.16	ppbv		0.93	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.43	0.16	ppbv		1.5	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.16	ppbv		ND	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.16	ppbv		ND	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	ND	0.40	ppbv		ND	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.16	ppbv		ND	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.032	ppbv		ND	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	ND	0.16	ppbv		ND	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.080	ppbv		1.5	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.16	ppbv		ND	0.56	ug/m3
	106.2	m,p-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.16	ppbv		ND	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OA-1		
Lab Sample ID:	JE23794-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A1654	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		65-128%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	OA-2		
Lab Sample ID:	JE23794-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A247	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60022.D	1	11/25/25 02:43	BK	n/a	n/a	V5W2301
Run #2							

	Initial Volume
Run #1	500 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	3.0	0.16	ppbv		7.1	0.38	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	0.22	0.16	ppbv		0.70	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	ND	0.16	ppbv		ND	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.49	0.16	ppbv		1.0	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.032	ppbv		ND	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.44	0.16	ppbv		2.2	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OA-2		
Lab Sample ID:	JE23794-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A247	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.5	0.40	ppbv		4.7	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	7.6	0.16	ppbv		27	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	ND	0.16	ppbv		ND	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.21	0.16	ppbv		0.74	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.24	0.16	ppbv		0.59	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.28	0.16	ppbv		0.97	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.16	ppbv		ND	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.16	ppbv		ND	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	ND	0.40	ppbv		ND	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.16	ppbv		ND	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.032	ppbv		ND	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	0.16	0.16	ppbv		0.60	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.080	ppbv		1.5	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.16	ppbv		ND	0.56	ug/m3
	106.2	m,p-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.16	ppbv		ND	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OA-2		
Lab Sample ID:	JE23794-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A247	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		65-128%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle

Air

CHAIN OF CUSTODY - AIR

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #	Bottle Order Control # EN 115525 20
SGS Quote #	SGS Job # JE23794

Client / Reporting Information		Project Information		Weather Parameters	
Company Name: Groundwater & Environmental Services		Project Name: Regency Centers Carmel ShopRite Plaza, Carmel, NY		Temperature (Fahrenheit) Start: 40	Maximum: 40
Address: 63 East Street, Suite 3		Street: 180 Gleneida Ave.		Stop: 39	Minimum: 34
City: Pawling	State: NY Zip: 12564	City: Carmel	State: NY	Atmoshpheric Pressure (inches of Hg) Start: 30.1	Maximum: 30.1
Project Contact: Jessica Montaldo	E-mail: Jmontaldo@gesonline.com	Project #: 1192343-02-210		Stop: 30.1	Minimum: 30.1
Phone #: 800-360-9405, ext 4328		Client Purchase Order #: Invoice to GES, please reference project #		Other weather comment:	
Sampler(s) Name(s): Liam Maher					

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Sampling Equipment Info: Canister Size 6L or 1L	Sampling Equipment Info: Flow Controller Serial #	Start Sampling Information: Date	Start Sampling Information: Time (24hr clock)	Start Sampling Information: Canister Pressure ("Hg)	Start Sampling Information: Interior Temp (F)	Start Sampling Information: Sampler Init.	Stop Sampling Information: Date	Stop Sampling Information: Time (24hr clock)	Stop Sampling Information: Canister Pressure ("Hg)	Stop Sampling Information: Interior Temp (F)	Stop Sampling Information: Sampler Init.	VTO15NYLL and VMS+NAP	Requested Analysis			
1	OA-1	A	NR	A1654	6L	FC1172	11/18/25	0900	30	40	LM	11/18/25	1640	4	41	LM	X				
2	OA-2	A	NR	A247	6L	FC1456	11/18/25	0902	30	40	LM	11/18/25	1558	4	41	LM	X				

Turnaround Time (Business days)

- 15 Business Days
- 10 Business Days — Approved By: _____
- 5 Business Days
- 3 Business Days *
- 2 Business Days * — Date: _____
- 1 Business Day *
- Other

* Approval needed for 1-3 Business Day TAT

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

- Comm A
- Comm B
- Reduced T2
- Full T1
- Other: NYCATB
- DKQP reporting

Comments / Remarks

VTO15NYSVLL - soil vapor; VTO15NYLL - indoor/ambient
*NYCATB Report

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory: 1 Liam Maher	Date / Time: 11-19-25	Received By: 1 FED-EX	Relinquished By: 2 FX	Date / Time: 11/20/25 1000	Received By: 2
Relinquished by: 3	Date / Time:	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #		

Initial Assessment 2A XL

http://www.sgs.com/en/terms-and-conditions

SGS Sample Receipt Summary

Job Number: JE23794 **Client:** GROUNDWATER & ENVIRONMENTAL S **Project:** REGENCY CENTERS, GLENEIDA AVE, C

Date / Time Received: 11/20/2025 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Received: 11/20/25

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1654	6	30	11/11/25	JT	CP13206	7W17829.D	JE23794-1	11/21/25	TCH	3.5			1
A247	6	30	11/11/25	JT	CP13198	7W17485.D	JE23794-2	11/21/25	TCH	3.5			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1172	11/11/25	JT	10.5	8	11/26/25	JT	11	4.7	Flow Controller
FC1456	11/11/25	JT	10.5	8	11/26/25	JT	12.4	16.6	Flow Controller

SGS Bottle Order(s):
EN-11525-210

Prep Date	Room Temp(F)	Bar Pres "Hg
11/11/25	70	29.92

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: JE23794

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE23794-1	Collected: 18-NOV-25 16:40 By: LM		Received: 20-NOV-25 By: JR			
OA-1						
JE23794-1	TO-15	25-NOV-25 01:58	BK			VTO15NYLL
JE23794-2	Collected: 18-NOV-25 15:58 By: LM		Received: 20-NOV-25 By: JR			
OA-2						
JE23794-2	TO-15	25-NOV-25 02:43	BK			VTO15NYLL

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.2	98	9.9	95	3	70-130/30
106-99-0	1,3-Butadiene	10.3	10.8	105	10.5	102	3	70-130/30
71-43-2	Benzene	10.4	11.0	106	10.8	104	2	70-130/30
75-27-4	Bromodichloromethane	9.9	11.1	112	11.1	112	0	70-130/30
75-25-2	Bromoform	10.6	13.5	127	13.2	125	2	70-130/30
74-83-9	Bromomethane	10.2	11.6	114	11.5	113	1	70-130/30
593-60-2	Bromoethene	10.1	11.9	118	11.7	116	2	70-130/30
100-44-7	Benzyl Chloride	10.5	13.2	126	13.2	126	0	70-130/30
75-15-0	Carbon disulfide	10.6	10.8	102	10.6	100	2	70-130/30
108-90-7	Chlorobenzene	10.9	12.0	110	11.9	109	1	70-130/30
75-00-3	Chloroethane	10	9.8	98	9.8	98	0	70-130/30
67-66-3	Chloroform	10.5	11.4	109	11.2	107	2	70-130/30
74-87-3	Chloromethane	10.6	9.7	92	9.6	91	1	70-130/30
107-05-1	3-Chloropropene	10.2	9.8	96	9.7	95	1	70-130/30
95-49-8	2-Chlorotoluene	10.4	11.4	110	11.3	109	1	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.4	112	11.4	112	0	70-130/30
110-82-7	Cyclohexane	10.4	10.9	105	10.7	103	2	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.7	95	9.6	94	1	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.6	99	10.2	95	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	12.8	116	12.3	112	4	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.9	107	10.7	105	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.1	88	9.1	88	0	70-130/30
123-91-1	1,4-Dioxane	9.9	10.9	110	11.0	111	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.8	111	11.2	106	5	70-130/30
124-48-1	Dibromochloromethane	10.4	12.3	118	11.8	113	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	10.2	100	10.1	99	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10	96	9.9	95	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	10.2	101	1	70-130/30
541-73-1	m-Dichlorobenzene	10.5	13.0	124	12.8	122	2	70-130/30
95-50-1	o-Dichlorobenzene	10.7	12.4	116	12.0	112	3	70-130/30
106-46-7	p-Dichlorobenzene	10.8	12.1	112	11.9	110	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.6	100	1	70-130/30
64-17-5	Ethanol	9.7	11.4	118	10.7	110	6	70-130/30
100-41-4	Ethylbenzene	11	12.1	110	11.8	107	3	70-130/30
141-78-6	Ethyl Acetate	10.5	12.5	119	12.1	115	3	70-130/30
622-96-8	4-Ethyltoluene	10.6	13.0	123	12.8	121	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	12.3	118	12.0	115	2	70-130/30
142-82-5	Heptane	10.4	9.4	90	9.4	90	0	70-130/30
87-68-3	Hexachlorobutadiene	11.7	13.7	117	13.6	116	1	70-130/30
110-54-3	Hexane	10.5	9.9	94	9.7	92	2	70-130/30
591-78-6	2-Hexanone	10.4	12.0	115	11.6	112	3	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.5	90	9.2	88	3	70-130/30
75-09-2	Methylene chloride	10.2	9.8	96	9.5	93	3	70-130/30
78-93-3	Methyl ethyl ketone	10.4	12.5	120	12.2	117	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	11.3	111	11.4	112	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10.3	98	10.2	97	1	70-130/30
80-62-6	Methylmethacrylate	10.3	11.3	110	11.2	109	1	70-130/30
91-20-3	Naphthalene	11.8	13.6	115	13.4	114	1	70-130/30
115-07-1	Propylene	10.6	9.5	90	9.0	85	5	70-130/30
100-42-5	Styrene	10.9	12.5	115	12.2	112	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	11.3	109	11.0	106	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	12.4	113	12.1	110	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	11.2	107	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	13.5	115	13.1	112	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	13.3	122	13.0	119	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.6	108	11.4	107	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	10.4	102	10.6	104	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	10.2	106	9.7	101	5	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.5	117	3	70-130/30
109-99-9	Tetrahydrofuran	9.7	11.4	118	11.0	113	4	70-130/30
108-88-3	Toluene	10.6	10.6	100	10.8	102	2	70-130/30
79-01-6	Trichloroethylene	9.9	11.1	112	11.1	112	0	70-130/30
75-69-4	Trichlorofluoromethane	10.1	11.7	116	12.8	127	9	70-130/30
75-01-4	Vinyl chloride	10.2	10.8	106	10.7	105	1	70-130/30
108-05-4	Vinyl Acetate	10.2	11.4	112	11.3	111	1	70-130/30
	m,p-Xylene	21.2	23.5	111	23.4	110	0	70-130/30
95-47-6	o-Xylene	11	12.4	113	12.0	109	3	70-130/30
1330-20-7	Xylenes (total)	32.2	35.9	111	35.4	110	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	8.8	85	8.5	82	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.4	82	8.1	79	4	70-130/30
71-43-2	Benzene	10.4	9.8	94	9.6	92	2	70-130/30
75-27-4	Bromodichloromethane	9.9	10.3	104	10.1	102	2	70-130/30
75-25-2	Bromoform	10.6	15.4	145* [a]	15.1	142* [a]	2	70-130/30
74-83-9	Bromomethane	10.2	9.6	94	9.3	91	3	70-130/30
593-60-2	Bromoethene	10.1	10	99	9.7	96	3	70-130/30
100-44-7	Benzyl Chloride	10.5	9.9	94	9.7	92	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.1	86	9.0	85	1	70-130/30
108-90-7	Chlorobenzene	10.9	10.8	99	10.7	98	1	70-130/30
75-00-3	Chloroethane	10	8.5	85	8.3	83	2	70-130/30
67-66-3	Chloroform	10.5	10.3	98	10.1	96	2	70-130/30
74-87-3	Chloromethane	10.6	8.4	79	8.1	76	4	70-130/30
107-05-1	3-Chloropropene	10.2	8.8	86	8.6	84	2	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.6	102	10.6	102	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	10.7	105	10.5	103	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.1	97	3	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.5	93	9.1	89	4	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.0	93	9.8	92	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.3	103	11.0	100	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	9.4	92	9.2	90	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.9	96	9.6	93	3	70-130/30
123-91-1	1,4-Dioxane	9.9	10.3	104	10.0	101	3	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.7	101	10.2	96	5	70-130/30
124-48-1	Dibromochloromethane	10.4	11.7	113	11.5	111	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	8.8	86	8.6	84	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.1	97	9.8	94	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	9.9	98	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.6	101	10.5	100	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	10.6	99	10.6	99	0	70-130/30
106-46-7	p-Dichlorobenzene	10.8	10.8	100	10.9	101	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.5	99	2	70-130/30
64-17-5	Ethanol	9.7	8.7	90	8.4	87	4	70-130/30
100-41-4	Ethylbenzene	11	10.9	99	10.8	98	1	70-130/30
141-78-6	Ethyl Acetate	10.5	9.6	91	9.6	91	0	70-130/30
622-96-8	4-Ethyltoluene	10.6	10.8	102	10.7	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.2	106	11.0	104	2	70-130/30
76-14-2	Freon 114	10.4	10.1	97	9.8	94	3	70-130/30
142-82-5	Heptane	10.4	9.6	92	9.3	89	3	70-130/30
87-68-3	Hexachlorobutadiene	11.7	18.9	162* [a]	18.9	162* [a]	0	70-130/30
110-54-3	Hexane	10.5	9.5	90	9.2	88	3	70-130/30
591-78-6	2-Hexanone	10.4	8.5	82	8.4	81	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.0	86	8.8	84	2	70-130/30
75-09-2	Methylene chloride	10.2	9.0	88	8.8	86	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.6	92	9.3	89	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	8.9	87	8.8	86	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	9.6	91	9.3	89	3	70-130/30
80-62-6	Methylmethacrylate	10.3	10	97	9.7	94	3	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10	94	9.5	90	5	70-130/30
100-42-5	Styrene	10.9	11.1	102	11.1	102	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.3	99	10.1	97	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	10.8	98	10.7	97	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	10.8	103	10.5	100	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.3	139* [a]	16.3	139* [a]	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.1	102	11.1	102	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	10.8	101	10.8	101	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.4	92	9.2	90	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.2	75	7.1	74	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.7	119	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.2	95	4	70-130/30
108-88-3	Toluene	10.6	10.5	99	10.3	97	2	70-130/30
79-01-6	Trichloroethylene	9.9	10	101	9.7	98	3	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.3	102	10.0	99	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.4	82	8.2	80	2	70-130/30
108-05-4	Vinyl Acetate	10.2	9.8	96	9.6	94	2	70-130/30
	m,p-Xylene	21.2	21.0	99	20.7	98	1	70-130/30
95-47-6	o-Xylene	11	11.0	100	10.9	99	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.0	99	31.6	98	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	99%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	9.2	88	8.9	86	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.7	84	8.5	83	2	70-130/30
71-43-2	Benzene	10.4	9.9	95	9.8	94	1	70-130/30
75-27-4	Bromodichloromethane	9.9	10.6	107	10.3	104	3	70-130/30
75-25-2	Bromoform	10.6	16.0	151* [a]	15.9	150* [a]	1	70-130/30
74-83-9	Bromomethane	10.2	9.8	96	9.6	94	2	70-130/30
593-60-2	Bromoethene	10.1	10.2	101	10.0	99	2	70-130/30
100-44-7	Benzyl Chloride	10.5	10.5	100	10.3	98	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.4	89	9.3	88	1	70-130/30
108-90-7	Chlorobenzene	10.9	11.0	101	10.9	100	1	70-130/30
75-00-3	Chloroethane	10	9.0	90	8.8	88	2	70-130/30
67-66-3	Chloroform	10.5	10.6	101	10.4	99	2	70-130/30
74-87-3	Chloromethane	10.6	8.7	82	8.5	80	2	70-130/30
107-05-1	3-Chloropropene	10.2	9.1	89	8.8	86	3	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.8	104	10.8	104	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.1	109	10.9	107	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.3	99	1	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.8	96	10	98	2	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.4	97	10.1	94	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.6	105	11.3	103	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.1	99	9.8	96	3	70-130/30
78-87-5	1,2-Dichloropropane	10.3	10.3	100	10.1	98	2	70-130/30
123-91-1	1,4-Dioxane	9.9	10.8	109	10.4	105	4	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.6	100	10.4	98	2	70-130/30
124-48-1	Dibromochloromethane	10.4	12.2	117	11.9	114	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	9.0	88	8.7	85	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.3	99	10.1	97	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.4	103	10.2	101	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.8	103	10.8	103	0	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.1	104	10.9	102	2	70-130/30
106-46-7	p-Dichlorobenzene	10.8	11.1	103	10.9	101	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	10.1	105	9.9	103	2	70-130/30
64-17-5	Ethanol	9.7	7.7	79	7.5	77	3	70-130/30
100-41-4	Ethylbenzene	11	11.2	102	11.1	101	1	70-130/30
141-78-6	Ethyl Acetate	10.5	10.2	97	10.1	96	1	70-130/30
622-96-8	4-Ethyltoluene	10.6	11.0	104	11.0	104	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	10.4	100	10.2	98	2	70-130/30
142-82-5	Heptane	10.4	9.8	94	9.6	92	2	70-130/30
87-68-3	Hexachlorobutadiene	11.7	19.6	168* [a]	19.1	163* [a]	3	70-130/30
110-54-3	Hexane	10.5	9.7	92	9.6	91	1	70-130/30
591-78-6	2-Hexanone	10.4	9.2	88	9.1	88	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.7	92	9.3	89	4	70-130/30
75-09-2	Methylene chloride	10.2	9.2	90	9.0	88	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.8	94	9.5	91	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	9.5	93	9.4	92	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10	95	9.8	93	2	70-130/30
80-62-6	Methylmethacrylate	10.3	10.3	100	10.1	98	2	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10.2	96	9.9	93	3	70-130/30
100-42-5	Styrene	10.9	11.4	105	11.4	105	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.8	104	10.5	101	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	11.2	102	11.1	101	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	10.9	104	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.6	142* [a]	16.4	140* [a]	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.5	106	11.3	104	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.2	105	11.1	104	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.7	95	9.4	92	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.8	81	7.7	80	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	13.7	128	13.4	125	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.6	99	0	70-130/30
108-88-3	Toluene	10.6	10.8	102	10.5	99	3	70-130/30
79-01-6	Trichloroethylene	9.9	10.1	102	10	101	1	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.7	106	10.4	103	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.9	87	8.7	85	2	70-130/30
108-05-4	Vinyl Acetate	10.2	10.2	100	9.9	97	3	70-130/30
	m,p-Xylene	21.2	21.4	101	21.3	100	0	70-130/30
95-47-6	o-Xylene	11	11.2	102	11.1	101	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.6	101	32.4	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	155		157		1	25
106-99-0	1,3-Butadiene	ND [a]		ND		nc	25
71-43-2	Benzene	0.28 [a]		ND		200* [b]	25
75-27-4	Bromodichloromethane	ND [a]		ND		nc	25
75-25-2	Bromoform	ND [a]		ND		nc	25
74-83-9	Bromomethane	ND [a]		ND		nc	25
593-60-2	Bromoethene	ND [a]		ND		nc	25
100-44-7	Benzyl Chloride	ND [a]		ND		nc	25
75-15-0	Carbon disulfide	ND [a]		ND		nc	25
108-90-7	Chlorobenzene	ND [a]		ND		nc	25
75-00-3	Chloroethane	ND [a]		ND		nc	25
67-66-3	Chloroform	0.24 [a]		ND		200* [b]	25
74-87-3	Chloromethane	0.11 [a]		ND		200* [b]	25
107-05-1	3-Chloropropene	ND [a]		ND		nc	25
95-49-8	2-Chlorotoluene	ND [a]		ND		nc	25
56-23-5	Carbon tetrachloride	ND [a]		ND		nc	25
110-82-7	Cyclohexane	0.18 [a]		ND		200* [b]	25
75-34-3	1,1-Dichloroethane	ND [a]		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND [a]		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND [a]		ND		nc	25
107-06-2	1,2-Dichloroethane	ND [a]		ND		nc	25
78-87-5	1,2-Dichloropropane	ND [a]		ND		nc	25
123-91-1	1,4-Dioxane	ND [a]		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.50 [a]		0.51	J	2	25
124-48-1	Dibromochloromethane	ND [a]		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND [a]		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND [a]		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND [a]		ND		nc	25
541-73-1	m-Dichlorobenzene	0.23 [a]		ND		200* [b]	25
95-50-1	o-Dichlorobenzene	ND [a]		ND		nc	25
106-46-7	p-Dichlorobenzene	ND [a]		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND [a]		ND		nc	25
64-17-5	Ethanol	205		209		2	25
100-41-4	Ethylbenzene	0.14 [a]		ND		200* [b]	25
141-78-6	Ethyl Acetate	17.7 [a]		16.3		8	25
622-96-8	4-Ethyltoluene	ND [a]		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND [a]		ND		nc	25
76-14-2	Freon 114	ND [a]		ND		nc	25
142-82-5	Heptane	5.6 [a]		5.1		9	25
87-68-3	Hexachlorobutadiene	ND [a]		ND		nc	25
110-54-3	Hexane	0.34 [a]		ND		200* [b]	25
591-78-6	2-Hexanone	ND [a]		ND		nc	25
67-63-0	Isopropyl Alcohol	11.9 [a]		12.5		5	25
75-09-2	Methylene chloride	0.27 [a]		ND		200* [b]	25
78-93-3	Methyl ethyl ketone	2.0 [a]		1.7		16	25
108-10-1	Methyl Isobutyl Ketone	ND [a]		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND [a]		ND		nc	25
80-62-6	Methylmethacrylate	4.9 [a]		4.6		6	25
91-20-3	Naphthalene	ND [a]		ND		nc	25
115-07-1	Propylene	ND [a]		ND		nc	25
100-42-5	Styrene	ND [a]		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND [a]		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND [a]		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND [a]		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND [a]		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND [a]		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND [a]		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	3.1 [a]		3.4		9	25
127-18-4	Tetrachloroethylene	0.76 [a]		0.80		5	25
109-99-9	Tetrahydrofuran	0.14 [a]		ND		200* [b]	25
108-88-3	Toluene	1.1 [a]		1.1		0	25
79-01-6	Trichloroethylene	ND [a]		ND		nc	25
75-69-4	Trichlorofluoromethane	1.0 [a]		1.0		0	25
75-01-4	Vinyl chloride	ND [a]		ND		nc	25
108-05-4	Vinyl Acetate	1.1 [a]		0.85		26* [c]	25
	m,p-Xylene	0.44 [a]		ND		200* [b]	25
95-47-6	o-Xylene	0.17 [a]		ND		200* [b]	25
1330-20-7	Xylenes (total)	0.61 [a]		ND		200* [b]	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23794-1, JE23794-2

CAS No.	Surrogate Recoveries	DUP	JE23789-3	JE23789-3	Limits
460-00-4	4-Bromofluorobenzene	109%	108%	109%	65-128%

(a) Result is from Run #2.
(b) RPD acceptable due to low DUP and sample concentrations.
(c) Outside in house control limits.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23794-2(A247)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23794-2(A247)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23794-2(A247)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Summa Cleaning Certification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23794-1(A1654)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23794-1(A1654)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23794-1(A1654)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Instrument Performance Check (BFB)

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-BFB
Lab File ID: 5W59768.D
Instrument ID: GCMS5W
Injection Date: 11/06/25
Injection Time: 21:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	135749	18.8		Pass
75	30.0 - 66.0% of mass 95	334528	46.4		Pass
95	Base peak, 100% relative abundance	720341	100.0		Pass
96	5.0 - 9.0% of mass 95	49469	6.87		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	662677	92.0		Pass
175	4.0 - 9.01% of mass 174	51795	7.19	(7.82) [a]	Pass
176	93.0 - 101.0% of mass 174	657579	91.3	(99.2) [a]	Pass
177	5.0 - 9.0% of mass 176	45267	6.28	(6.88) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2292-IC2292	5W59769.D	11/06/25	22:35	00:36	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25	23:11	01:12	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25	23:50	01:51	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25	03:41	05:42	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25	06:57	08:58	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25	07:33	09:34	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25	08:12	10:13	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25	08:54	10:55	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25	09:38	11:39	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25	10:24	12:25	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25	12:25	14:26	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2301-BFB
Lab File ID: 5W60000.D
Instrument ID: GCMS5W
Injection Date: 11/24/25
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	126995	16.6		Pass
75	30.0 - 66.0% of mass 95	346987	45.5		Pass
95	Base peak, 100% relative abundance	763029	100.0		Pass
96	5.0 - 9.0% of mass 95	51400	6.74		Pass
173	Less than 2.0% of mass 174	6908	0.91	(0.88) [a]	Pass
174	50.0 - 120.0% of mass 95	783595	102.7		Pass
175	4.0 - 9.01% of mass 174	58229	7.63	(7.43) [a]	Pass
176	93.0 - 101.0% of mass 174	761195	99.8	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	50824	6.66	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2301-CC2292	5W60001.D	11/24/25	09:49	00:37	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25	12:02	02:50	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25	12:39	03:27	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25	14:27	05:15	Method Blank
ZZZZZZ	5W60006.D	11/24/25	15:18	06:06	(unrelated sample)
JE23789-3	5W60007.D	11/24/25	15:56	06:44	(used for QC only; not part of job JE23794)
JE23789-3DUP	5W60008.D	11/24/25	16:33	07:21	Duplicate
ZZZZZZ	5W60009.D	11/24/25	17:15	08:03	(unrelated sample)
ZZZZZZ	5W60010.D	11/24/25	17:58	08:46	(unrelated sample)
ZZZZZZ	5W60011.D	11/24/25	18:41	09:29	(unrelated sample)
ZZZZZZ	5W60012.D	11/24/25	19:25	10:13	(unrelated sample)
ZZZZZZ	5W60013.D	11/24/25	20:08	10:56	(unrelated sample)
ZZZZZZ	5W60014.D	11/24/25	20:52	11:40	(unrelated sample)
ZZZZZZ	5W60015.D	11/24/25	21:35	12:23	(unrelated sample)
ZZZZZZ	5W60016.D	11/24/25	22:19	13:07	(unrelated sample)
ZZZZZZ	5W60017.D	11/24/25	23:02	13:50	(unrelated sample)
ZZZZZZ	5W60018.D	11/24/25	23:46	14:34	(unrelated sample)
ZZZZZZ	5W60019.D	11/25/25	00:29	15:17	(unrelated sample)
ZZZZZZ	5W60020.D	11/25/25	01:14	16:02	(unrelated sample)
JE23794-1	5W60021.D	11/25/25	01:58	16:46	OA-1
JE23794-2	5W60022.D	11/25/25	02:43	17:31	OA-2
ZZZZZZ	5W60023.D	11/25/25	03:27	18:15	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25	04:12	19:00	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25	05:54	20:42	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2301-BFB	**Injection Date:**	11/24/25
Lab File ID:	5W60000.D	**Injection Time:**	09:12
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W60027.D	11/25/25	06:37	21:25	(unrelated sample)
JE23789-3	5W60028.D	11/25/25	07:20	22:08	(used for QC only; not part of job JE23794)
ZZZZZZ	5W60029.D	11/25/25	07:57	22:45	(unrelated sample)
ZZZZZZ	5W60030.D	11/25/25	08:34	23:22	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-BFB
Lab File ID: 7W16573.D
Instrument ID: GCMS7W
Injection Date: 08/07/25
Injection Time: 02:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	26979	21.8		Pass
75	30.0 - 66.0% of mass 95	60811	49.0		Pass
95	Base peak, 100% relative abundance	123992	100.0		Pass
96	5.0 - 9.0% of mass 95	7953	6.41		Pass
173	Less than 2.0% of mass 174	724	0.58	(0.83) [a]	Pass
174	50.0 - 120.0% of mass 95	87088	70.2		Pass
175	4.0 - 9.01% of mass 174	6502	5.24	(7.47) [a]	Pass
176	93.0 - 101.0% of mass 174	87355	70.5	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	5835	4.71	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W577-IC577	7W16576.D	08/07/25	04:00	01:55	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25	04:38	02:33	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25	08:36	06:31	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25	09:13	07:08	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25	12:29	10:24	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25	13:07	11:02	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25	13:47	11:42	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25	14:30	12:25	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25	15:15	13:10	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25	16:02	13:57	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25	18:07	16:02	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W613-BFB
Lab File ID: 7W17472.D
Instrument ID: GCMS7W
Injection Date: 09/26/25
Injection Time: 10:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	24211	19.5		Pass
75	30.0 - 66.0% of mass 95	60491	48.8		Pass
95	Base peak, 100% relative abundance	124040	100.0		Pass
96	5.0 - 9.0% of mass 95	8048	6.49		Pass
173	Less than 2.0% of mass 174	644	0.52	(0.57) [a]	Pass
174	50.0 - 120.0% of mass 95	113392	91.4		Pass
175	4.0 - 9.01% of mass 174	8039	6.48	(7.09) [a]	Pass
176	93.0 - 101.0% of mass 174	109491	88.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7193	5.80	(6.57) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W613-CC577	7W17473.D	09/26/25	11:04	00:39	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25	11:54	01:29	Blank Spike
V7W613-BSD	7W17475.D	09/26/25	12:32	02:07	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25	14:01	03:36	Method Blank
ZZZZZZ	7W17478.D	09/26/25	15:51	05:26	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25	16:43	06:18	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25	17:30	07:05	(unrelated sample)
JE19193-2	7W17481.D	09/26/25	18:21	07:56	(used for QC only; not part of job JE23794)
JE19193-2DUP	7W17482.D	09/26/25	19:09	08:44	Duplicate
V7W613-SCC	7W17483.D	09/26/25	19:55	09:30	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25	20:38	10:13	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25	21:22	10:57	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25	22:06	11:41	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25	22:50	12:25	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25	23:33	13:08	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25	00:13	13:48	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25	00:52	14:27	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25	01:31	15:06	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25	02:11	15:46	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25	02:50	16:25	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25	03:29	17:04	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25	04:08	17:43	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25	04:48	18:23	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W624-BFB
Lab File ID: 7W17800.D
Instrument ID: GCMS7W
Injection Date: 10/13/25
Injection Time: 10:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	32653	19.8		Pass
75	30.0 - 66.0% of mass 95	83059	50.4		Pass
95	Base peak, 100% relative abundance	164693	100.0		Pass
96	5.0 - 9.0% of mass 95	10435	6.34		Pass
173	Less than 2.0% of mass 174	1376	0.84	(0.93) [a]	Pass
174	50.0 - 120.0% of mass 95	148181	90.0		Pass
175	4.0 - 9.01% of mass 174	10927	6.63	(7.37) [a]	Pass
176	93.0 - 101.0% of mass 174	148821	90.4	(100.4) [a]	Pass
177	5.0 - 9.0% of mass 176	9210	5.59	(6.19) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W624-CC577	7W17801.D	10/13/25	11:18	00:37	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25	12:00	01:19	Blank Spike
V7W624-BSD	7W17803.D	10/13/25	12:37	01:56	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25	14:03	03:22	Method Blank
ZZZZZZ	7W17806.D	10/13/25	15:24	04:43	(unrelated sample)
JE20702-1	7W17807.D	10/13/25	16:09	05:28	(used for QC only; not part of job JE23794)
JE20702-1DUP	7W17808.D	10/13/25	16:55	06:14	Duplicate
ZZZZZZ	7W17809.D	10/13/25	17:45	07:04	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25	18:38	07:57	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25	19:25	08:44	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25	20:14	09:33	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25	21:05	10:24	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25	21:58	11:17	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25	22:49	12:08	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25	23:42	13:01	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25	00:27	13:46	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25	01:14	14:33	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25	02:02	15:21	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25	02:51	16:10	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25	03:40	16:59	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25	04:19	17:38	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25	04:58	18:17	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25	05:38	18:57	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25	06:17	19:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W624-BFB	**Injection Date:**	10/13/25
Lab File ID:	7W17800.D	**Injection Time:**	10:41
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W17826.D	10/14/25	06:55	20:14	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25	07:39	20:58	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25	08:23	21:42	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25	09:07	22:26	Summa Cleaning Certification

Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V5W2301-CC2292	**Injection Date:**	11/24/25
Lab File ID:	5W60001.D	**Injection Time:**	09:49
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	470220	7.35	2049823	9.21	1097928	13.53
Upper Limit [a]	658308	7.68	2869752	9.54	1537099	13.86
Lower Limit [b]	282132	7.02	1229894	8.88	658757	13.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2301-BS	477635	7.35	2106400	9.21	1093252	13.53
V5W2301-BSD	479179	7.35	2114849	9.21	1129270	13.53
V5W2301-MB	551412	7.35	2422137	9.21	1175032	13.53
ZZZZZZ	479276	7.34	2151488	9.20	1006479	13.53
JE23789-3	486262	7.35	2215300	9.21	1093617	13.53
JE23789-3DUP	490041	7.35	2190031	9.21	1089506	13.53
ZZZZZZ	467172	7.35	2081525	9.21	995730	13.53
ZZZZZZ	492269	7.35	2182901	9.21	1069119	13.53
ZZZZZZ	456556	7.35	2083658	9.21	1040810	13.53
ZZZZZZ	478467	7.35	2172826	9.21	1077180	13.53
ZZZZZZ	475205	7.35	2156975	9.21	973217	13.53
ZZZZZZ	468744	7.35	2166394	9.21	1085776	13.53
ZZZZZZ	474128	7.35	2121035	9.21	1035907	13.53
ZZZZZZ	481013	7.35	2162967	9.21	1070422	13.53
ZZZZZZ	475052	7.35	2137020	9.21	997545	13.53
ZZZZZZ	474848	7.36	2108916	9.21	1017029	13.53
ZZZZZZ	488279	7.35	2202107	9.21	1020272	13.53
ZZZZZZ	464538	7.35	2148688	9.21	1036446	13.53
JE23794-1	494809	7.34	2211542	9.20	1056914	13.53
JE23794-2	469833	7.35	2110422	9.21	1027988	13.53
ZZZZZZ	476461	7.35	2112621	9.21	1018512	13.53
ZZZZZZ	489936	7.35	2117411	9.21	1030226	13.53
ZZZZZZ	488795	7.35	2169845	9.21	1097700	13.53
ZZZZZZ	457379	7.35	2030446	9.21	965813	13.53
JE23789-3	487990	7.35	2191861	9.21	1085055	13.53
ZZZZZZ	467512	7.34	2049365	9.21	954808	13.53
ZZZZZZ	474173	7.35	2069410	9.21	971499	13.53

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W613-CC577	**Injection Date:**	09/26/25
Lab File ID:	7W17473.D	**Injection Time:**	11:04
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	116358	3.19	571811	4.45	520899	9.97
Upper Limit [a]	162901	3.52	800535	4.78	729259	10.30
Lower Limit [b]	69815	2.86	343087	4.12	312539	9.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W613-BS	117537	3.19	576557	4.45	537853	9.97
V7W613-BSD	119187	3.19	585415	4.45	537645	9.97
V7W613-MB	128174	3.19	642694	4.45	594320	9.96
ZZZZZZ	119787	3.19	602923	4.45	564591	9.96
ZZZZZZ	115596	3.19	572850	4.45	549268	9.97
ZZZZZZ	119426	3.19	598587	4.45	559501	9.97
JE19193-2	112064	3.19	565732	4.45	535025	9.96
JE19193-2DUP	119852	3.19	593173	4.45	552085	9.97
V7W613-SCC	122841	3.19	609530	4.45	568575	9.97
V7W613-SCC	123267	3.19	612589	4.45	566370	9.97
V7W613-SCC	124035	3.19	614922	4.45	572447	9.97
V7W613-SCC	122792	3.19	613182	4.45	569186	9.97
V7W613-SCC	123364	3.19	617156	4.45	570765	9.96
V7W613-SCC	121230	3.19	603406	4.45	557323	9.97
V7W613-SCC	124644	3.20	619956	4.46	573347	9.97
V7W613-SCC	122766	3.20	607988	4.46	562421	9.97
V7W613-SCC	122015	3.20	599456	4.46	558700	9.97
V7W613-SCC	123531	3.20	612393	4.46	566814	9.97
V7W613-SCC	121013	3.20	597047	4.46	554808	9.97
V7W613-SCC	125065	3.20	614767	4.46	568943	9.97
V7W613-SCC	124050	3.21	612021	4.46	566843	9.97
V7W613-SCC	122222	3.20	607269	4.46	565306	9.97

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W624-CC577	**Injection Date:**	10/13/25
Lab File ID:	7W17801.D	**Injection Time:**	11:18
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	133953	3.19	659891	4.45	616286	9.96
Upper Limit [a]	187534	3.52	923847	4.78	862800	10.29
Lower Limit [b]	80372	2.86	395935	4.12	369772	9.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W624-BS	130379	3.19	642815	4.45	599585	9.97
V7W624-BSD	133015	3.19	654252	4.45	606507	9.97
V7W624-MB	141808	3.19	703798	4.45	657479	9.96
ZZZZZZ	135394	3.21	669430	4.46	626248	9.97
JE20702-1	133082	3.19	664568	4.45	629037	9.96
JE20702-1DUP	127619	3.19	640507	4.45	607064	9.96
ZZZZZZ	128810	3.19	643176	4.45	605309	9.96
ZZZZZZ	125599	3.19	622159	4.45	593488	9.96
ZZZZZZ	127374	3.19	637226	4.45	604051	9.96
ZZZZZZ	125963	3.19	637764	4.45	602349	9.96
ZZZZZZ	131364	3.19	653605	4.45	609498	9.97
ZZZZZZ	123237	3.19	615381	4.45	583060	9.96
ZZZZZZ	131555	3.19	651668	4.45	604825	9.96
ZZZZZZ	123888	3.19	619782	4.45	585599	9.96
ZZZZZZ	122352	3.19	617796	4.45	579165	9.96
ZZZZZZ	122263	3.21	606145	4.46	576052	9.97
ZZZZZZ	123557	3.21	619493	4.46	584556	9.97
ZZZZZZ	129322	3.20	648769	4.46	605277	9.97
ZZZZZZ	130607	3.20	657333	4.46	618632	9.97
ZZZZZZ	127305	3.21	641300	4.46	595091	9.97
ZZZZZZ	132250	3.20	664281	4.46	620218	9.97
ZZZZZZ	131975	3.21	668505	4.46	623685	9.97
ZZZZZZ	127594	3.21	644592	4.46	596854	9.97
ZZZZZZ	133020	3.20	677172	4.46	625775	9.97
V7W624-SCC	133491	3.19	659279	4.45	611978	9.97
V7W624-SCC	139794	3.19	685797	4.45	636271	9.97
V7W624-SCC	138603	3.19	685964	4.45	631471	9.96

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.35	0.644	ok	0.638	0.578-0.698
Acrolein	4.62	7.35	0.629	ok	0.623	0.563-0.683
Acrylonitrile	5.11	7.35	0.695	ok	0.688	0.628-0.748
Acetonitrile	4.53	7.35	0.616	ok	0.611	0.551-0.671
1,3-Butadiene	3.93	7.35	0.535	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.40	13.53	1.138	ok	1.136	1.076-1.196
Bromodichloromethane	9.87	9.21	1.072	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.62	13.53	1.228	ok	1.225	1.165-1.285
n-Butylbenzene	17.33	13.53	1.281	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.45	13.53	1.216	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.49	7.35	1.019	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.54	7.35	0.754	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.10	9.21	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.44	7.35	0.876	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.45	13.53	0.920	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.80	9.21	1.281	ok	1.277	1.217-1.337
1,4-Dioxane	10.05	9.21	1.091	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.30	7.35	0.585	ok	0.583	0.523-0.643
Dibromochloromethane	12.18	13.53	0.900	ok	0.898	0.838-0.958
Dibromomethane	9.65	9.21	1.048	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.79	9.21	1.172	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.62	13.53	1.228	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.01	13.53	1.257	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.68	13.53	1.233	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.36	9.21	1.233	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.46	7.35	1.015	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.35	7.35	0.592	ok	0.589	0.529-0.649
Ethylbenzene	14.03	13.53	1.037	ok	1.034	0.974-1.094
Ethyl Acetate	7.21	7.35	0.981	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.25	13.53	0.905	ok	0.891	0.831-0.951
4-Ethyltoluene	16.00	13.53	1.183	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.38	7.35	0.460	ok	0.458	0.398-0.518
Freon 123	4.61	7.35	0.627	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.46	7.35	0.471	ok	0.468	0.408-0.528
Heptane	10.21	9.21	1.109	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.32	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.94	7.35	0.672	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.89	13.53	1.248	ok	1.246	1.186-1.306
Methyl Acrylate	7.40	7.35	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl Tert Butyl Ether	6.56	7.35	0.893	ok	0.884	0.824-0.944
alpha-Methylstyrene	16.25	13.53	1.201	ok	1.197	1.137-1.257
Naphthalene	18.73	13.53	1.384	ok	1.380	1.320-1.440
Nonane	14.94	13.53	1.104	ok	1.103	1.043-1.163
Octane	12.77	13.53	0.944	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.86	13.53	1.172	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.70	13.53	1.086	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.71	13.53	1.087	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.48	9.21	1.246	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.92	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.87	13.53	1.247	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.47	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.07	13.53	1.188	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Toluene	11.76	9.21	1.277	ok	1.273	1.213-1.333
Trichloroethylene	9.91	9.21	1.076	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.22	13.53	1.051	ok	1.048	0.988-1.108
o-Xylene	14.71	13.53	1.087	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.10	13.53	0.377	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	470818	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2113713	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1047801	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.09	7.35	0.693	ok	0.688	0.628-0.748
Acetonitrile	4.52	7.35	0.615	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.60	13.53	1.227	ok	1.225	1.165-1.285
n-Butylbenzene	17.29	13.53	1.278	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.44	13.53	1.215	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.43	13.53	0.919	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.79	9.21	1.280	ok	1.277	1.217-1.337
1,4-Dioxane	10.03	9.21	1.089	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.17	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.78	9.21	1.170	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.60	13.53	1.227	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.00	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.67	13.53	1.232	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.33	9.21	1.230	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.45	7.35	1.014	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.02	13.53	1.036	ok	1.034	0.974-1.094
Ethyl Acetate	7.54	7.35	1.026	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.12	13.53	0.896	ok	0.891	0.831-0.951
4-Ethyltoluene	15.98	13.53	1.181	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.20	9.21	1.107	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.51	7.35	1.022	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.92	7.35	0.941	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.96	9.21	1.190	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.55	7.35	0.891	ok	0.884	0.824-0.944
Methylmethacrylate	10.22	9.21	1.110	ok	1.100	1.040-1.160
alpha-Methylstyrene	16.23	13.53	1.200	ok	1.197	1.137-1.257
Naphthalene	18.70	13.53	1.382	ok	1.380	1.320-1.440

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.76	13.53	0.943	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.85	13.53	1.171	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.62	13.53	1.081	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.91	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.46	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Tetrahydrofuran	7.97	7.35	1.084	ok	1.072	1.012-1.132
Toluene	11.75	9.21	1.276	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.20	13.53	1.050	ok	1.048	0.988-1.108
o-Xylene	14.70	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	483296	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2143191	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1063437	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.08	7.35	0.691	ok	0.688	0.628-0.748
Acetonitrile	4.51	7.35	0.614	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.26	13.53	1.054	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.59	13.53	1.226	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.41	13.53	0.917	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.78	9.21	1.279	ok	1.277	1.217-1.337
1,4-Dioxane	10.00	9.21	1.086	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.77	9.21	1.169	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.99	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.31	9.21	1.228	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.44	7.35	1.012	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.00	13.53	1.035	ok	1.034	0.974-1.094
Ethyl Acetate	7.50	7.35	1.020	ok	1.010	0.950-1.070
Ethyl Acrylate	9.80	9.21	1.064	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.08	13.53	0.893	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.17	13.53	0.899	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.49	7.35	1.019	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.90	7.35	0.939	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.89	9.21	1.182	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.54	7.35	0.890	ok	0.884	0.824-0.944
Methylmethacrylate	10.17	9.21	1.104	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.22	13.53	1.199	ok	1.197	1.137-1.257
Naphthalene	18.68	13.53	1.381	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.83	13.53	1.170	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.60	13.53	1.079	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.90	13.53	1.397	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.84	13.53	1.097	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.53	1.216	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.46	7.35	0.743	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.95	7.35	1.082	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.62	7.35	0.901	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.53	1.049	ok	1.048	0.988-1.108
o-Xylene	14.69	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	467597	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2126307	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1045384	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.71	7.35	0.641	ok	0.638	0.578-0.698
Acrolein	4.59	7.35	0.624	ok	0.623	0.563-0.683
Acrylonitrile	5.06	7.35	0.688	ok	0.688	0.628-0.748
Acetonitrile	4.50	7.35	0.612	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.53	1.053	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.53	1.225	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.35	0.476	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.53	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.35	1.113	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.21	1.049	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.77	9.21	1.278	ok	1.277	1.217-1.337
1,4-Dioxane	9.97	9.21	1.083	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.21	1.168	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.53	1.255	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.30	9.21	1.227	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.42	7.35	1.010	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.53	1.034	ok	1.034	0.974-1.094
Ethyl Acetate	7.47	7.35	1.016	ok	1.010	0.950-1.070
Ethyl Acrylate	9.74	9.21	1.058	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.05	13.53	0.891	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.08	13.53	0.893	ok	0.889	0.829-0.949
Iodomethane	5.25	7.35	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.53	1.131	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.91	7.35	0.668	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.53	1.246	ok	1.246	1.186-1.306
Methyl Acrylate	7.45	7.35	1.014	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.86	7.35	0.933	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.85	9.21	1.178	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.52	7.35	0.887	ok	0.884	0.824-0.944
Methylmethacrylate	10.14	9.21	1.101	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.21	13.53	1.198	ok	1.197	1.137-1.257
Naphthalene	18.67	13.53	1.380	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.53	1.169	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.59	13.53	1.078	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.46	9.21	1.244	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.53	1.396	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.83	13.53	1.096	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.53	1.245	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.53	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.44	7.35	0.740	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.92	7.35	1.078	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.60	7.35	0.898	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.53	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.53	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	472964	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2121089	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1052969	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.68	7.35	0.637	ok	0.638	0.578-0.698
Acrolein	4.58	7.35	0.623	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.35	0.687	ok	0.688	0.628-0.748
Acetonitrile	4.49	7.35	0.611	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.91	9.21	1.076	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.43	7.35	1.011	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.21	1.052	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.02	13.54	0.888	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.35	0.664	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.80	9.21	1.173	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.49	7.35	0.883	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.87	7.35	1.071	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.35	0.894	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	462457	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2061895	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1060612	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.35	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.35	0.622	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.35	0.686	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.35	0.610	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.90	9.21	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.19	7.35	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.35	1.010	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.54	0.887	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.29	13.54	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.35	0.663	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.85	13.54	1.244	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.48	7.35	0.882	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.86	7.35	1.069	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.56	7.35	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	458592	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2019630	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1088548	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.36	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.49	7.36	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.21	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.36	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.60	7.36	0.625	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.45	7.36	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.85	7.36	1.067	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.36	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	450013	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	1932450	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1113631	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.54	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.54	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.22	1.047	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.54	0.898	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.22	1.223	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.94	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.54	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.54	1.085	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.54	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	458599	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1942721	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1247352	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.56	7.36	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.55	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.10	7.36	0.557	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.94	7.36	0.535	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.55	1.223	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.55	1.274	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.36	0.573	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.36	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.36	1.018	ok	1.017	0.957-1.077
Chloromethane	3.66	7.36	0.497	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.36	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.55	1.229	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.25	7.36	0.713	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.55	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.49	7.36	0.474	ok	0.476	0.416-0.536
Styrene	14.57	13.55	1.075	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.55	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.55	1.184	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.81	7.36	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	467162	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1929313	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1280918	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.37	0.634	ok	0.638	0.578-0.698
Acrolein	4.57	7.37	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.37	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.37	0.608	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.37	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.55	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.37	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.37	0.608	ok	0.610	0.550-0.670
n-Butane	3.95	7.37	0.536	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.55	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.55	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.37	0.769	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.37	0.472	ok	0.473	0.413-0.533
Chloroethane	4.23	7.37	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.37	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.37	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.37	0.498	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.37	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.37	1.221	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.37	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.37	0.722	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.37	1.110	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.37	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.37	0.582	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.37	0.847	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.37	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.55	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.37	1.003	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.37	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.37	0.586	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.37	1.007	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.22	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.37	0.765	ok	0.767	0.707-0.827
Freon 114	3.73	7.37	0.506	ok	0.507	0.447-0.567
Freon 115	3.37	7.37	0.457	ok	0.458	0.398-0.518
Freon 123	4.60	7.37	0.624	ok	0.625	0.565-0.685
Freon 123A	4.64	7.37	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.37	0.495	ok	0.496	0.436-0.556
Freon 152A	3.44	7.37	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.37	1.001	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.37	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.55	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.37	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.37	1.005	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.37	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.37	0.921	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.37	0.878	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.37	0.688	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.50	7.37	0.475	ok	0.476	0.416-0.536
Styrene	14.58	13.55	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.37	1.141	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.55	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.55	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.37	0.729	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.37	1.064	ok	1.072	1.012-1.132
Toluene	11.73	9.22	1.272	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.37	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.37	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.37	0.891	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.36	7.03-7.69	467614	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1973593	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1346242	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.96	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.92	4.45	1.106	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.73	4.45	1.737	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.07	4.45	1.364	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.96	1.346	ok	1.345	1.285-1.405
Octane	8.98	4.45	2.018	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.96	1.213	ok	1.211	1.151-1.271

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.96	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.78	4.45	1.524	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.33	9.96	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114117	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	582166	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	538138	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.96	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.96	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.96	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.17	9.96	1.623	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.39	9.96	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.12	9.96	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.96	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.28	9.96	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.96	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.96	1.701	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.96	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.83	9.96	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.82	3.19	0.884	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.96	1.140	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	113084	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	573427	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	530262	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.96	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.59	9.96	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.96	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.96	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.34	4.45	0.975	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.09	4.45	1.144	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.96	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.72	4.45	1.735	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.96	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.96	1.345	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.06	9.96	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.49	3.19	1.094	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.34	9.96	1.139	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.96	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114690	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	581918	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	540272	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.97	1.368	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.97	1.118	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.06	4.45	1.137	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.94	3.19	0.608	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.56	9.97	1.260	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.97	1.698	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.48	3.19	1.091	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.27	9.97	1.231	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114041	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	577981	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	540711	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.97	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.18	4.45	1.613	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.36	9.97	1.842	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.97	1.837	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110309	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	561645	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511167	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.97	1.654	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110672	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	555876	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511162	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.37	3.19	0.743	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.30	9.97	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.97	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109480	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	545187	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	503767	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109851	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	546669	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	501897	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.68	9.97	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	105717	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531881	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	494368	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.51	9.97	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.06	9.97	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.27	3.19	1.025	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.02	4.45	1.802	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.67	3.19	1.150	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.95	4.45	1.337	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.81	9.97	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.42	9.97	1.346	ok	1.345	1.285-1.405
Octane	9.01	4.45	2.025	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.32	9.97	1.236	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.95	9.97	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.86	4.45	1.991	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.37	9.97	1.140	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	106909	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531012	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	486982	ok	515873	309524-722222

Surrogate Recovery Summary

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JE23794-1	5W60021.D	109
JE23794-2	5W60022.D	111
JE23789-3DUP	5W60008.D	109
V5W2301-BS	5W60002.D	99
V5W2301-BSD	5W60003.D	99
V5W2301-MB	5W60005.D	106
V7W613-SCC	7W17483.D	94
V7W624-SCC	7W17827.D	95
V7W613-BS	7W17474.D	98
V7W613-BSD	7W17475.D	99
V7W613-MB	7W17477.D	94
V7W624-BS	7W17802.D	101
V7W624-BSD	7W17803.D	100
V7W624-MB	7W17805.D	95

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JE23794 **Sample:** V5W2292-ICC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59783.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Response Factor Report GCMS5W

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Calibration Files
0.04=5w59769.D 0.1 =5w59770.D 0.2 =5w59771.D 0.5 =5w59777.D
5 =5w59782.D 10 =5w59783.D 20 =5w59784.D 40 =5w59785.D
50 =5w59786.D 60 =5w59787.D = =

Compound	0.04	0.1	0.2	0.5	5	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	0.904	0.623	0.441	0.867	0.844	0.649	0.468				0.685	27.83
3) FREON 152A	1.190	0.843	0.777	0.639	0.629	0.634	0.654	0.669	0.679	0.703	0.742	23.17
4) CHLORODIFLUOROMETHANE	0.261	0.310	0.322	0.317	0.319	0.318	0.321	0.312	0.309	0.313	0.310	5.70
5) CHLOROTRIFLUOROETHENE	1.547	1.519	1.498	1.506	1.563	1.584	1.608	1.574	1.553	1.582	1.553	2.33
6) DICHLORODIFLUOROMETHANE	2.985	2.960	2.993	2.976	2.973	2.974	2.928	2.665	2.607	2.557	2.862	6.17
7) PROPYLENE	1.163	0.858	0.858	0.767	0.686	0.687	0.692	0.670	0.647	0.647	0.768	20.84
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.780	2.706	2.572	2.594	2.313	2.270	2.220	1.987	1.876	1.858	2.318	14.62
9) FREON 114	2.937	2.861	2.921	2.907	2.796	2.727	2.639	2.259	2.075	2.040	2.616	13.59
10) CHLOROMETHANE	0.431	0.378	0.356	0.335	0.302	0.297	0.293	0.263	0.244	0.242	0.314	19.44
11) VINYL CHLORIDE	1.049	1.003	1.074	1.031	1.012	1.001	0.979	0.875	0.834	0.829	0.969	9.24
12) 1,3-BUTADIENE	0.749	0.651	0.660	0.616	0.592	0.574	0.542	0.498	0.476	0.474	0.583	15.30
13) n-BUTANE	1.389	1.067	1.063	1.022	0.942	0.918	0.873	0.782	0.739	0.736	0.953	20.68
14) BROMOMETHANE	1.246	1.098	1.104	1.032	1.048	1.039	1.003	0.930	0.898	0.905	1.030	10.28
15) CHLOROETHANE	0.741	0.573	0.510	0.453	0.430	0.429	0.383	0.375	0.359		0.473	25.66
16) DICHLOROFLUOROMETHANE	2.476	2.142	2.254	2.245	2.119	2.098	2.008	1.802	1.755	1.690	2.059	12.07
17) ACETONITRILE	0.672	0.547	0.640	0.621	0.555	0.546	0.514	0.465	0.444	0.440	0.544	14.95
18) ACROLEIN	0.368	0.324	0.348	0.304	0.344	0.324	0.299	0.268	0.257	0.259	0.309	12.60
19) FREON 123	3.217	2.695	2.600	2.612	2.453	2.381	2.248	1.947	1.846	1.818	2.382	18.31
20) FREON 123A	1.580	1.536	1.456	1.509	1.438	1.391	1.317	1.182	1.137	1.133	1.368	12.24
21) TRICHLOROFLUOROMETHANE	2.581	2.586	2.629	2.688	2.603	2.488	2.433	2.204	2.126	2.106	2.445	8.97
22) ISOPROPYL ALCOHOL	2.614	2.508	2.222	2.040	1.950	1.865	1.714	1.590	1.499	1.605	1.961	19.74
23) ACETONE												

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                    0.630 0.436 0.382 0.383 0.361 0.324 0.307 0.315  0.392   26.83
24)  PENTANE
          1.642 1.236 1.065 0.988 0.887 0.890 0.897 0.874 0.848 0.861  1.019   24.53
25)  IODOMETHANE
          3.028 3.099 3.178 3.075 3.112 3.051 3.062 2.974 2.936 2.953  3.047    2.50
26)  1,1-DICHLOROETHYLENE
          1.447 1.169 1.069 1.090 1.017 0.995 0.996 0.975 0.978 0.990  1.073   13.53
27)  CARBON DISULFIDE
          2.997 3.014 2.977 2.890 2.819 2.764 2.735 2.653 2.618 2.638  2.810    5.44
28)  ETHANOL
                          0.410 0.368 0.360 0.325 0.282 0.280 0.274  0.329   16.02
29)  BROMOETHENE
          1.144 1.045 1.084 1.077 1.054 1.046 1.003 0.925 0.895 0.887  1.016    8.53
30)  ACRYLONITRILE
          0.731 0.728 0.766 0.659 0.613 0.615 0.631 0.630 0.623 0.643  0.664    8.45
31)  METHYLENE CHLORIDE
          1.452 1.200 1.182 0.923 0.907 0.882 0.885 0.862 0.863 0.878  1.003   20.24
32)  3-CHLOROPROPENE
          0.592 0.509 0.507 0.503 0.454 0.454 0.455 0.447 0.449 0.461  0.483    9.46
33)  FREON 113
          1.817 1.755 1.790 1.795 1.801 1.780 1.806 1.784 1.751 1.767  1.785    1.22
34)  TRANS-1,2-DICHLOROETHYLENE
          1.406 1.205 1.180 1.132 1.061 1.031 1.048 1.050 1.047 1.085  1.125   10.31
35)  TERTIARY BUTYL ALCOHOL
          2.011 1.926 2.111 2.081 2.179 2.134 2.097 1.869 1.847 1.796  2.005    6.76
36)  METHYL TERTIARY BUTYL ETHER
          3.856 3.026 2.904 2.828 2.710 2.672 2.659 2.576 2.512 2.562  2.830   13.94
37)  TETRAHYDROFURAN
                0.289 0.323 0.368 0.410 0.414 0.422 0.416 0.417 0.434  0.388   13.03
38)  HEXANE
          1.915 1.826 1.847 1.513 1.521 1.530 1.570 1.453 1.436 1.353  1.597   12.17
39)  VINYL ACETATE
                    0.067 0.100 0.168 0.173 0.192 0.191 0.196 0.204  0.161   31.11
40)  1,1-DICHLOROETHANE
          2.633 2.495 2.189 2.043 1.949 1.897 1.894 1.857 1.819 1.859  2.063   13.90
41)  METHYL ETHYL KETONE
                0.183 0.275 0.353 0.436 0.436 0.443 0.444 0.443 0.463  0.386   25.10
42)  cis-1,2-DICHLOROETHYLENE
          1.936 1.350 1.202 1.161 1.089 1.079 1.109 1.087 1.109 1.135  1.226   21.40
43)  DIISOPROPYL ETHER
          0.264 0.354 0.387 0.430 0.466 0.474 0.486 0.457 0.450 0.431  0.420   16.24
44)  ETHYL ACETATE
                0.083 0.229 0.295 0.349 0.343 0.350 0.339 0.335 0.333  0.295   29.95
45)  METHYL ACRYLATE
          0.432 1.287 1.422 1.650 1.890 1.915 1.940 1.815 1.761 1.699  1.581   28.86
46)  CHLOROFORM
          2.352 2.269 2.286 2.272 2.286 2.248 2.196 2.129 2.087 2.110  2.223    3.98
47)  2,4-DIMETHYLPENTANE
          2.053 1.842 1.846 1.806 1.778 1.772 1.798 1.731 1.733 1.710  1.807    5.41
48)  1,1,1-TRICHLOROETHANE
          2.325 2.281 2.406 2.366 2.372 2.352 2.356 2.258 2.249 2.226  2.319    2.65
49)  CARBON TETRACHLORIDE
          2.444 2.411 2.530 2.547 2.639 2.617 2.629 2.495 2.438 2.439  2.519    3.44
50)  1,2-DICHLOROETHANE
          1.533 1.473 1.599 1.594 1.593 1.588 1.592 1.515 1.471 1.491  1.545    3.50

51) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
52)  BENZENE
          0.696 0.655 0.643 0.656 0.654 0.658 0.683 0.675 0.693 0.687  0.670    2.84
53)  CYCLOHEXANE
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          0.273 0.253 0.260 0.267 0.265 0.261 0.271 0.269 0.280 0.278  0.268    3.20
54)  2,3-DIMETHYLPENTANE
          0.129 0.129 0.130 0.128 0.130 0.135 0.137 0.144 0.146 0.145  0.135    5.39
55)  TRICHLOROETHYLENE
          0.328 0.325 0.320 0.336 0.341 0.346 0.363 0.354 0.359 0.342  0.341    4.26
56)  1,2-DICHLOROPROPANE
          0.438 0.404 0.281 0.300 0.278 0.277 0.289 0.285 0.283 0.275  0.311   18.96
57)  DIBROMOMETHANE
          0.424 0.377 0.366 0.351 0.361 0.367 0.389 0.393 0.396 0.391  0.381    5.63
58)  ETHYL ACRYLATE
                      0.253 0.395 0.528 0.532 0.558 0.543 0.544 0.537  0.486   22.14
59)  BROMODICHLOROMETHANE
          0.553 0.553 0.574 0.575 0.604 0.609 0.628 0.607 0.618 0.597  0.592    4.47
60)  2,2,4-TRIMETHYLPENTANE
          1.172 1.070 1.076 1.110 1.083 1.092 1.093 1.008 0.985 0.912  1.060    6.91
61)  1,4-DIOXANE
          0.119 0.163 0.166 0.153 0.156 0.158 0.161 0.149 0.155 0.148  0.153    8.55
62)  HEPTANE
          0.486 0.429 0.412 0.394 0.359 0.364 0.366 0.350 0.352 0.343  0.385   11.77
63)  METHYL METHACRYLATE
                0.165 0.191 0.210 0.220 0.230 0.237 0.235 0.237 0.240  0.218   11.74
64)  METHYL ISOBUTYL KETONE
                0.094 0.143 0.177 0.216 0.220 0.232 0.229 0.234 0.233  0.198   25.14
65)  cis-1,3-DICHLOROPROPENE
          0.549 0.472 0.454 0.444 0.448 0.457 0.480 0.484 0.488 0.488  0.477    6.41
66)  TOLUENE
          0.453 0.460 0.472 0.473 0.501 0.504 0.534 0.536 0.536 0.539  0.501    6.86
67)  1,3-DICHLOROPROPANE
          0.388 0.399 0.412 0.403 0.408 0.405 0.424 0.412 0.418 0.413  0.408    2.50
68)  trans-1,3-DICHLOROPROPENE
          0.532 0.455 0.440 0.408 0.413 0.432 0.450 0.446 0.464 0.458  0.450    7.61
69)  1,1,2-TRICHLOROETHANE
          0.222 0.260 0.256 0.259 0.273 0.275 0.289 0.291 0.298 0.295  0.272    8.64

70) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
71)  2-HEXANONE
                    0.408 0.431 0.614 0.614 0.604 0.521 0.508 0.486  0.523   15.56
72)  ETHYL METHACRYLATE
                0.516 0.665 0.708 0.800 0.801 0.777 0.665 0.658 0.627  0.691   13.43
73)  TETRACHLOROETHYLENE
          0.676 0.720 0.732 0.733 0.739 0.718 0.701 0.620 0.602 0.581  0.682    8.74
74)  DIBROMOCHLOROMETHANE
          1.151 1.237 1.210 1.236 1.308 1.287 1.240 1.073 1.045 0.990  1.178    9.18
75)  1,2-DIBROMOETHANE
          0.796 0.917 0.967 0.994 1.020 0.988 0.966 0.866 0.842 0.809  0.916    8.99
76)  OCTANE
          1.367 1.023 1.031 0.997 0.998 0.951 0.922 0.779 0.739 0.693  0.950   20.17
77)  1,1,1,2-TETRACHLOROETHANE
          0.759 0.752 0.771 0.778 0.809 0.810 0.790 0.715 0.681 0.635  0.750    7.58
78)  CHLOROBENZENE
          1.396 1.346 1.325 1.345 1.310 1.304 1.267 1.132 1.076 0.996  1.250   10.70
79)  ETHYLBENZENE
          2.081 2.086 2.090 2.062 2.054 2.026 1.959 1.699 1.615 1.496  1.917   11.72
80)  m,p-XYLENE
          0.737 0.778 0.808 0.808 0.831 0.813 0.805 0.692 0.665 0.617  0.755    9.80
81)  o-XYLENE
          0.690 0.721 0.758 0.763 0.789 0.776 0.769 0.649 0.607 0.548  0.707   11.55
82)  STYRENE
          0.842 1.090 1.135 1.188 1.219 1.241 1.200 1.083 1.051 0.991  1.104   11.06
83)  NONANE
```

Initial Calibration Summary

Job Number: JE23794 **Sample:** V5W2292-ICC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59783.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
           1.263 1.143 1.098 1.070 1.015 0.984 0.936 0.758 0.711 0.630  0.961   21.20
 84)  BROMOFORM
           0.975 1.099 1.138 1.163 1.350 1.334 1.294 1.136 1.095 1.036  1.162   10.84
 85)  4-BROMOFLUOROBENZENE
           1.330 1.340 1.366 1.347 1.327 1.287 1.218 1.121 1.095 1.064  1.249    9.27
 86)  1,1,2,2-TETRACHLOROETHANE
           1.295 1.327 1.329 1.369 1.391 1.354 1.306 1.073 0.984 0.872  1.230   14.92
 87)  1,2,3-TRICHLOROPROPANE
           1.343 1.154 1.094 1.066 1.002 0.961 0.918 0.802 0.795 0.755  0.989   18.56
 88)  ISOPROPYLBENZENE
           2.240 2.330 2.361 2.367 2.405 2.373 2.298 1.911 1.764 1.610  2.166   13.45
 89)  BROMOBENZENE
           1.244 1.237 1.285 1.170 1.203 1.169 1.138 0.981 0.955 0.885  1.127   12.18
 90)  2-CHLOROTOLUENE
           0.536 0.627 0.631 0.629 0.644 0.645 0.636 0.568 0.559 0.524  0.600    7.92
 91)  n-PROPYLBENZENE
           0.507 0.562 0.604 0.628 0.636 0.654 0.635 0.554 0.528 0.499  0.581    9.98
 92)  4-ETHYLTOLUENE
           1.639 1.966 2.121 2.208 2.358 2.292 2.208 1.826 1.672 1.521  1.981   15.14
 93)  1,3,5-TRIMETHYLBENZENE
           2.134 2.114 2.126 2.019 2.006 1.939 1.861 1.528 1.413 1.278  1.842   17.25
 94)  ALPHA-METHYLSTYRENE
           0.664 0.815 0.913 0.949 1.039 1.056 1.037 0.912 0.886 0.802  0.907   13.61
 95)  tert-BUTYLBENZENE
                 0.385 0.387 0.399 0.430 0.437 0.419 0.333 0.301 0.273  0.374   15.59
 96)  1,2,4-TRIMETHYLBENZENE
           1.774 1.808 1.921 1.943 2.043 2.024 1.886 1.411 1.261 1.116  1.719   19.36
 97)  m-DICHLOROBENZENE
           1.071 1.275 1.361 1.467 1.581 1.575 1.484 1.226 1.105 0.994  1.314   16.21
 98)  BENZYL CHLORIDE
           1.079 1.369 1.537 1.720 2.062 2.046 1.914 1.531 1.366 1.212  1.584   21.69
 99)  p-DICHLOROBENZENE
           1.495 1.539 1.589 1.568 1.519 1.496 1.454 1.250 1.145 1.072  1.413   13.19
100)  sec-BUTYLBENZENE
           0.443 0.490 0.508 0.501 0.536 0.521 0.509 0.438 0.405 0.385  0.474   10.99
101)  1,2,3-TRIMETHYLBENZENE
           1.891 2.048 2.044 2.086 2.132 2.084 1.952 1.469 1.317 1.153  1.818   19.95
102)  p-ISOPROPYLTOLUENE
           0.478 0.540 0.594 0.609 0.642 0.635 0.609 0.471 0.423 0.368  0.537   17.98
103)  o-DICHLOROBENZENE
           1.222 1.365 1.402 1.444 1.466 1.430 1.407 1.207 1.165 1.072  1.318   10.51
104)  n-BUTYLBENZENE
           0.393 0.469 0.535 0.547 0.617 0.598 0.602 0.528 0.503 0.466  0.526   13.41
105)  HEXACHLOROETHANE
           0.945 0.925 0.962 0.982 1.025 1.011 0.994 0.812 0.739 0.669  0.906   13.59
106)  HEXACHLOROBUTADIENE
           1.290 1.305 1.341 1.386 1.445 1.419 1.355 1.012 0.902 0.796  1.225   18.99
107)  1,2,4-TRICHLOROBENZENE
           1.125 1.174 1.216 1.297 1.397 1.381 1.375 1.174 1.089 0.985  1.221   11.36
108)  NAPHTHALENE
           2.542 2.726 2.760 2.887 3.309 3.228 3.019 2.334 2.035 1.777  2.662   18.70

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
           6.493 5.469 7.159 6.304 5.822 5.911 6.041 5.816 5.676 5.781  6.047    8.12
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M5w2292.M         Mon Nov 10 09:45:04 2025
```

Initial Calibration Verification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w59790.D Vial: 5
Acq On : 7 Nov 2025 12:25 pm Operator: benk
Sample : icv2292-10 Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	109	0.00	7.35
2	FREON 115	0.685	0.779	-13.7	130	0.00	3.37
3	FREON 152A	0.742	0.643	13.3	110	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	109	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.530	1.5	105	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	2.988	-4.4	109	0.00	3.55
7	PROPYLENE	0.768	0.702	8.6	111	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.153	7.1	103	0.00	3.65
9	FREON 114	2.616	2.753	-5.2	110	0.00	3.73
10	CHLOROMETHANE	0.314	0.302	3.8	110	0.00	3.67
11	VINYL CHLORIDE	0.969	0.972	-0.3	105	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	106	0.00	3.91
13	n-BUTANE	0.953	0.914	4.1	108	0.00	3.95
14	BROMOMETHANE	1.030	1.045	-1.5	109	0.00	4.11
15	CHLOROETHANE	0.473	0.420	11.2	106	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.125	-3.2	110	0.00	4.29
17	ACETONITRILE	0.544	0.544	0.0	108	0.00	4.48
18	ACROLEIN	0.309	0.333	-7.8	112	0.00	4.57
19	FREON 123	2.382	2.220	6.8	101	0.00	4.59
20	FREON 123A	1.368	1.202	12.1	94	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.504	-2.4	109	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.814	7.5	106	0.00	4.87
23	ACETONE	0.392	0.355	9.4	101	0.00	4.67
24	PENTANE	1.019	0.893	12.4	109	0.00	5.07
25	IODOMETHANE	3.047	3.023	0.8	108	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	0.965	10.1	105	0.00	5.32
27	CARBON DISULFIDE	2.810	2.525	10.1	99	0.00	5.67
28	ETHANOL	0.329	0.346	-5.2	104	0.00	4.31
29	BROMOETHENE	1.016	0.992	2.4	103	0.00	4.48
30	ACRYLONITRILE	0.664	0.612	7.8	108	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.881	12.2	108	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.449	7.0	108	0.00	5.52
33	FREON 113	1.785	1.773	0.7	108	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.001	11.0	105	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	2.333	-16.4	119	0.00	5.37
36	METHYL TERTIARY BUTYL ETH	2.830	2.647	6.5	108	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.451	-16.2	118	0.00	7.86
38	HEXANE	1.597	1.514	5.2	107	0.00	7.38
39	VINYL ACETATE	0.161	0.179	-11.2	112	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.900	7.9	109	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.431	-11.7	107	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.081	11.8	109	0.00	7.20

Initial Calibration Verification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

43		DIISOPROPYL ETHER	0.420	0.475	-13.1	109	0.00	7.39
44		ETHYL ACETATE	0.295	0.316	-7.1	100	0.00	7.42
45		METHYL ACRYLATE	1.581	1.896	-19.9	108	0.00	7.40
46		CHLOROFORM	2.223	2.242	-0.9	108	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.797	0.6	110	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.340	-0.9	108	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.531	-0.5	105	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.580	-2.3	108	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	107	0.00	9.21
52		BENZENE	0.670	0.673	-0.4	110	0.00	8.85
53		CYCLOHEXANE	0.268	0.265	1.1	109	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.135	0.0	107	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.344	-0.9	107	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.279	10.3	108	0.00	9.65
57		DIBROMOMETHANE	0.381	0.364	4.5	106	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.544	-11.9	110	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.612	-3.4	108	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.094	-3.2	107	0.00	9.91
61		1,4-DIOXANE	0.153	0.172	-12.4	117	0.00	9.90
62		HEPTANE	0.385	0.362	6.0	106	0.00	10.19
63		METHYL METHACRYLATE	0.218	0.234	-7.3	109	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.228	-15.2	111	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.428	10.3	100	0.00	10.75
66		TOLUENE	0.501	0.522	-4.2	111	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.415	-1.7	110	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.426	5.3	106	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.279	-2.6	109	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	0.00	13.54
71		2-HEXANONE	0.523	0.623	-19.1	109	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.789	-14.2	106	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.719	-5.4	107	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.278	-8.5	106	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	0.991	-8.2	108	0.00	12.40
76		OCTANE	0.950	0.982	-3.4	111	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.807	-7.6	107	0.00	13.56
78		CHLOROBENZENE	1.250	1.307	-4.6	108	0.00	13.58
79		ETHYLBENZENE	1.917	2.022	-5.5	107	0.00	13.99
80		m,p-XYLENE	0.755	0.820	-8.6	108	0.00	14.18
81		o-XYLENE	0.707	0.798	-12.9	110	0.00	14.68
82		STYRENE	1.104	1.193	-8.1	103	0.00	14.57
83		NONANE	0.961	0.979	-1.9	107	0.00	14.93
84		BROMOFORM	1.162	1.338	-15.1	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.271	-1.8	106	0.00	15.16
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.370	-11.4	109	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.972	1.7	108	0.00	14.82
88		ISOPROPYLBENZENE	2.166	2.352	-8.6	106	0.00	15.29
89		BROMOBENZENE	1.127	1.177	-4.4	108	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.648	-8.0	108	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.653	-12.4	107	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.350	-18.6	110	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.949	-5.8	108	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	0.970	-6.9	98	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.445	-19.0	109	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.034	-18.3	108	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.579	-20.2	108	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.924	-21.5	101	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.485	-5.1	106	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.527	-11.2	108	0.00	16.70

Initial Calibration Verification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

101		1,2,3-TRIMETHYLBENZENE	1.818	2.100	-15.5	108	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.630	-17.3	106	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.447	-9.8	109	0.00	16.98
104		n-BUTYLBENZENE	0.526	0.598	-13.7	107	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.898	0.9	95	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.374	-12.2	104	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.350	-10.6	105	0.00	18.89
108		NAPHTHALENE	2.662	3.063	-15.1	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	108	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.852	3.2	107	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Mon Nov 10 09:44:44 2025

6.9.2
6

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60001.D Vial: 2
Acq On : 24 Nov 2025 9:49 am Operator: benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	103	0.00	7.35
2	FREON 115	0.685	0.650	5.1	103	0.00	3.37
3	FREON 152A	0.742	0.612	17.5	99	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	103	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.657	-6.7	107	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	3.030	-5.9	104	0.00	3.55
7	PROPYLENE	0.768	0.623	18.9	93	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.297	0.9	104	0.00	3.65
9	FREON 114	2.616	2.883	-10.2	108	0.00	3.73
10	CHLOROMETHANE	0.314	0.281	10.5	97	0.00	3.67
11	VINYL CHLORIDE	0.969	0.994	-2.6	102	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	100	0.00	3.91
13	n-BUTANE	0.953	0.869	8.8	97	0.00	3.95
14	BROMOMETHANE	1.030	1.106	-7.4	109	0.00	4.11
15	CHLOROETHANE	0.473	0.431	8.9	103	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.152	-4.5	105	0.00	4.29
17	ACETONITRILE	0.544	0.522	4.0	98	0.00	4.48
18	ACROLEIN	0.309	0.307	0.6	97	0.00	4.57
19	FREON 123	2.382	2.544	-6.8	110	0.00	4.59
20	FREON 123A	1.368	1.505	-10.0	111	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.691	-10.1	111	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.675	14.6	92	0.00	4.87
23	ACETONE	0.392	0.386	1.5	103	0.00	4.67
24	PENTANE	1.019	0.807	20.8	93	0.00	5.07
25	IODOMETHANE	3.047	3.258	-6.9	110	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	1.032	3.8	106	0.00	5.32
27	CARBON DISULFIDE	2.810	2.762	1.7	102	0.00	5.67
28	ETHANOL	0.329	0.359	-9.1	102	0.00	4.32
29	BROMOETHENE	1.016	1.138	-12.0	112	0.00	4.48
30	ACRYLONITRILE	0.664	0.575	13.4	96	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.914	8.9	106	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.437	9.5	99	0.00	5.52
33	FREON 113	1.785	1.909	-6.9	110	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.066	5.2	106	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	1.976	1.4	95	0.00	5.38
36	METHYL TERTIARY BUTYL ETH	2.830	2.633	7.0	101	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.407	-4.9	101	0.00	7.86
38	HEXANE	1.597	1.427	10.6	96	0.00	7.38
39	VINYL ACETATE	0.161	0.169	-5.0	100	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.832	11.2	99	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.416	-7.8	98	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.103	10.0	105	0.00	7.19

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43		DIISOPROPYL ETHER	0.420	0.446	-6.2	97	0.00	7.38
44		ETHYL ACETATE	0.295	0.326	-10.5	98	0.00	7.42
45		METHYL ACRYLATE	1.581	1.788	-13.1	96	0.00	7.40
46		CHLOROFORM	2.223	2.301	-3.5	105	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.640	9.2	95	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.386	-2.9	104	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.656	-5.4	104	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.513	2.1	98	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00	9.21
52		BENZENE	0.670	0.663	1.0	102	0.00	8.85
53		CYCLOHEXANE	0.268	0.260	3.0	101	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.132	2.2	99	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.368	-7.9	108	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.268	13.8	98	0.00	9.65
57		DIBROMOMETHANE	0.381	0.400	-5.0	111	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.502	-3.3	96	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.625	-5.6	104	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.033	2.5	96	0.00	9.91
61		1,4-DIOXANE	0.153	0.162	-5.9	104	0.00	9.90
62		HEPTANE	0.385	0.323	16.1	90	0.00	10.18
63		METHYL METHACRYLATE	0.218	0.225	-3.2	99	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.209	-5.6	96	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.456	4.4	101	0.00	10.75
66		TOLUENE	0.501	0.512	-2.2	103	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.409	-0.2	103	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.432	4.0	101	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.285	-4.8	105	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00	13.53
71		2-HEXANONE	0.523	0.580	-10.9	95	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.782	-13.2	99	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.805	-18.0	113	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.365	-15.9	107	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	1.051	-14.7	107	0.00	12.39
76		OCTANE	0.950	0.880	7.4	93	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.847	-12.9	105	0.00	13.56
78		CHLOROBENZENE	1.250	1.365	-9.2	106	0.00	13.58
79		ETHYLBENZENE	1.917	2.077	-8.3	103	0.00	13.98
80		m,p-XYLENE	0.755	0.819	-8.5	102	0.00	14.18
81		o-XYLENE	0.707	0.793	-12.2	103	0.00	14.68
82		STYRENE	1.104	1.238	-12.1	101	0.00	14.57
83		NONANE	0.961	0.916	4.7	94	0.00	14.93
84		BROMOFORM	1.162	1.434	-23.4	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.269	-1.6	99	0.00	15.15
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.384	-12.5	103	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.971	1.8	102	0.00	14.81
88		ISOPROPYLBENZENE	2.166	2.356	-8.8	100	0.00	15.29
89		BROMOBENZENE	1.127	1.169	-3.7	101	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.664	-10.7	104	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.659	-13.4	102	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.339	-18.1	103	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.987	-7.9	103	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	1.038	-14.4	99	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.450	-20.3	104	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.087	-21.4	104	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.625	-23.7	104	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.930	-21.8	95	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.541	-9.1	104	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.516	-8.9	100	0.00	16.70

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.150	-18.3	104	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.657	-22.3	104	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.459	-10.7	103	0.00	16.97
104		n-BUTYLBENZENE	0.526	0.603	-14.6	102	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.831	8.3	83	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.512	-23.4	108	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.482	-21.4	108	0.00	18.88
108		NAPHTHALENE	2.662	3.274	-23.0	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	102	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.436	10.1	94	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Tue Nov 25 23:10:44 2025

Initial Calibration Summary

Job Number: JE23794 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Response Factor Report MS7W

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Calibration Files
0.04=7w16576.D 0.10=7w16577.D 0.20=7w16583.D 0.5 =7w16584.D
5.0 =7w16589.D 10 =7w16590.D 20 =7w16591.D 40 =7w16592.D
50 =7w16593.D 60 =7w16594.D = =

Compound	0.04	0.10	0.20	0.5	5.0	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	1.203	1.393	1.114	1.143	1.254	1.290	1.096				1.213	8.81
3) FREON 152A	0.745	0.766	0.515	0.617	0.600	0.616	0.583	0.573	0.625	0.619	0.626	12.09
4) CHLORODIFLUOROMETHANE	0.262	0.310	0.227	0.298	0.278	0.280	0.263	0.256	0.274	0.268	0.272	8.44
5) CHLOROTRIFLUOROETHENE	1.236	1.313	1.228	1.323	1.328	1.374	1.287	1.267	1.368	1.350	1.307	3.96
6) DICHLORODIFLUOROMETHANE	2.430	2.605	2.232	2.464	2.458	2.507	2.286	2.240	2.393	2.333	2.395	5.06
7) PROPYLENE	1.071	0.884	0.802	0.773	0.770	0.792	0.740	0.724	0.781	0.764	0.810	12.49
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.209	2.330	2.069	2.243	2.205	2.234	2.046	1.940	2.046	1.984	2.131	6.08
9) FREON 114	2.502	2.559	2.224	2.545	2.563	2.616	2.427	2.335	2.486	2.428	2.469	4.82
10) CHLOROMETHANE	0.455	0.388	0.331	0.328	0.341	0.337	0.316	0.304	0.322	0.312	0.343	13.20
11) VINYL CHLORIDE	1.458	1.323	1.045	1.211	1.233	1.252	1.156	1.121	1.196	1.166	1.216	9.35
12) 1,3-BUTADIENE	1.219	1.115	0.851	0.966	0.948	0.970	0.888	0.854	0.905	0.890	0.961	12.39
13) N-BUTANE	2.037	1.684	1.681	1.625	1.658	1.513	1.438	1.522	1.470		1.625	11.08
14) BROMOMETHANE	1.198	1.035	0.868	0.913	0.937	0.952	0.882	0.849	0.907	0.888	0.943	11.02
15) CHLOROETHANE	0.861	0.707	0.614	0.656	0.639	0.662	0.623	0.586	0.634	0.618	0.660	11.78
16) DICHLOROFLUOROMETHANE	2.550	2.579	2.157	2.307	2.310	2.365	2.164	2.072	2.204	2.152	2.286	7.50
17) ACETONITRILE	1.721	1.525	1.208	1.108	1.011	1.040	0.948	0.902	0.961	0.935	1.136	24.30
18) ACROLEIN	0.687	0.560	0.578	0.522	0.542	0.495	0.474	0.507	0.493		0.540	11.98
19) FREON 123	2.414	2.455	2.175	2.383	2.349	2.423	2.225	2.120	2.271	2.217	2.303	5.06
20) FREON 123A	1.611	1.387	1.303	1.356	1.389	1.419	1.304	1.248	1.330	1.298	1.364	7.40
21) TRICHLOROFLUOROMETHANE	2.753	2.717	2.507	2.784	2.706	2.755	2.516	2.365	2.495	2.413	2.601	6.06
22) ISOPROPYL ALCOHOL	2.546	2.456	2.277	2.284	2.064	1.926	2.061	2.020			2.204	10.05
23) ACETONE												

Initial Calibration Summary

Job Number: JE23794 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
                    0.656 0.680 0.609 0.633 0.569 0.543 0.574 0.556  0.603    8.27
24)  PENTANE
          1.606 1.407 1.190 1.200 1.152 1.181 1.073 1.014 1.072 1.043  1.194   15.35
25)  IODOMETHANE
          2.438 2.580 2.265 2.470 2.464 2.527 2.313 2.208 2.364 2.301  2.393    5.06
26)  1,1-DICHLOROETHYLENE
          1.069 1.117 0.969 0.998 1.011 1.023 0.937 0.893 0.958 0.941  0.991    6.72
27)  CARBON DISULFIDE
          2.988 3.039 2.590 2.949 2.902 2.970 2.722 2.581 2.743 2.649  2.813    6.24
28)  ETHANOL
                    0.707 0.722 0.581 0.585 0.538 0.501 0.535 0.525  0.587   14.28
29)  BROMOETHENE
          1.011 1.016 0.878 0.948 0.967 0.995 0.915 0.878 0.942 0.919  0.947    5.32
30)  ACRYLONITRILE
                    0.902 0.945 0.863 0.877 0.802 0.767 0.822 0.800  0.847    7.05
31)  METHYLENE CHLORIDE
               1.365 0.950 1.004 0.951 0.971 0.878 0.845 0.906 0.879  0.972   16.03
32)  3-CHLOROPROPENE
          0.565 0.547 0.514 0.539 0.548 0.554 0.515 0.489 0.524 0.509  0.530    4.50
33)  FREON 113
          1.465 1.565 1.411 1.596 1.560 1.594 1.454 1.381 1.476 1.433  1.493    5.28
34)  TRANS-1,2-DICHLOROETHENE
          1.192 1.283 0.975 1.120 1.106 1.128 1.036 0.985 1.053 1.031  1.091    8.76
35)  TERTIARY BUTYL ALCOHOL
          3.327 3.620 2.504 2.744 2.758 2.788 2.506 2.337 2.506 2.448  2.754   14.99
36)  METHYL TERTIARY BUTYL ETHER
          3.411 3.505 2.859 3.151 3.124 3.202 2.945 2.821 3.037 2.976  3.103    7.24
37)  TETRAHYDROFURAN
          0.463 0.602 0.399 0.525 0.513 0.535 0.492 0.480 0.516 0.507  0.503   10.41
38)  HEXANE
          2.426 2.447 1.855 2.100 2.092 2.121 1.971 1.886 2.029 1.974  2.090    9.71
39)  VINYL ACETATE
          0.346 0.297 0.248 0.276 0.290 0.312 0.297 0.291 0.313 0.311  0.298    8.61
40)  1,1-DICHLOROETHANE
          2.208 2.250 1.966 2.188 2.166 2.223 2.038 1.955 2.090 2.006  2.109    5.30
41)  METHYL ETHYL KETONE
          0.680 0.718 0.505 0.543 0.558 0.573 0.528 0.509 0.548 0.540  0.570   12.52
42)  CIS-1,2-DICHLOROETHENE
          1.234 1.216 1.059 1.153 1.131 1.168 1.084 1.043 1.122 1.105  1.132    5.56
43)  DIISOPROPYL ETHER
          0.655 0.625 0.569 0.597 0.608 0.610 0.568 0.546 0.580 0.566  0.593    5.54
44)  ETHYL ACETATE
          0.424 0.389 0.362 0.383 0.409 0.431 0.405 0.389 0.414 0.401  0.401    5.13
45)  METHYL ACRYLATE
          2.886 2.714 2.279 2.520 2.550 2.627 2.441 2.344 2.498 2.434  2.529    7.05
46)  CHLOROFORM
          2.197 2.312 2.087 2.345 2.258 2.323 2.107 1.996 2.127 2.074  2.183    5.57
47)  2,4-DIMETHYLPENTANE
          2.514 2.532 2.162 2.399 2.371 2.421 2.242 2.159 2.317 2.276  2.339    5.64
48)  1,1,1-TRICHLOROETHANE
          2.385 2.439 2.098 2.353 2.370 2.418 2.235 2.144 2.305 2.254  2.300    5.01
49)  CARBON TETRACHLORIDE
          2.279 2.359 2.087 2.395 2.491 2.585 2.402 2.314 2.482 2.435  2.383    5.75
50)  1,2-DICHLOROETHANE
          1.529 1.771 1.601 1.817 1.788 1.824 1.680 1.592 1.704 1.661  1.697    6.03
51)  BENZENE
          3.752 3.819 3.173 3.365 3.315 3.400 3.154 3.029 3.266 3.210  3.348    7.61

52) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
53)  CYCLOHEXANE
```

0.289 0.316 0.271 0.301 0.297 0.307 0.287 0.273 0.293 0.292 0.293 4.78

54) 2,3-DIMETHYLPENTANE
0.134 0.157 0.127 0.152 0.150 0.156 0.144 0.140 0.149 0.149 0.146 6.57

55) TRICHLOROETHENE
0.321 0.352 0.277 0.322 0.315 0.327 0.303 0.290 0.307 0.305 0.312 6.69

56) 1,2-DICHLOROPROPANE
0.293 0.297 0.236 0.287 0.276 0.288 0.269 0.259 0.276 0.274 0.276 6.53

57) DIBROMOMETHANE
0.334 0.292 0.244 0.263 0.256 0.267 0.247 0.241 0.257 0.257 0.266 10.55

58) ETHYL ACRYLATE
0.633 0.638 0.568 0.598 0.626 0.654 0.614 0.590 0.627 0.622 0.617 4.11

59) BROMODICHLOROMETHANE
0.497 0.496 0.450 0.504 0.522 0.542 0.509 0.488 0.518 0.513 0.504 4.82

60) 2,2,4-TRIMETHYLPENTANE
1.551 1.607 1.274 1.372 1.313 1.363 1.263 1.209 1.281 1.270 1.350 9.64

61) 1,4-DIOXANE
0.119 0.148 0.155 0.162 0.148 0.142 0.153 0.153 0.148 8.73

62) HEPTANE
0.521 0.485 0.419 0.457 0.443 0.456 0.421 0.404 0.428 0.424 0.446 7.95

63) METHYL METHACRYLATE
0.275 0.256 0.220 0.251 0.252 0.262 0.247 0.238 0.254 0.251 0.251 5.74

64) METHYL ISOBUTYL KETONE
0.327 0.358 0.222 0.242 0.257 0.269 0.250 0.240 0.255 0.253 0.267 15.78

65) CIS-1,3-DICHLOROPROPENE
0.386 0.412 0.377 0.409 0.433 0.458 0.431 0.422 0.450 0.449 0.423 6.41

66) TOLUENE
0.794 0.853 0.735 0.806 0.797 0.829 0.777 0.750 0.801 0.798 0.794 4.35

67) 1,3-DICHLOROPROPANE
0.371 0.411 0.360 0.404 0.410 0.429 0.401 0.383 0.408 0.403 0.398 5.17

68) TRANS-1,3-DICHLOROPROPENE
0.306 0.358 0.314 0.361 0.397 0.425 0.407 0.399 0.426 0.426 0.382 11.78

69) 1,1,2-TRICHLOROETHANE
0.177 0.235 0.215 0.239 0.234 0.246 0.229 0.221 0.235 0.232 0.226 8.60

70) 2-HEXANONE
0.551 0.561 0.286 0.321 0.341 0.353 0.330 0.317 0.337 0.334 0.373 26.30

71) ETHYL METHACRYLATE
0.409 0.415 0.369 0.418 0.431 0.450 0.421 0.404 0.431 0.429 0.418 5.11

72) TETRACHLOROETHENE
0.284 0.301 0.266 0.297 0.292 0.305 0.287 0.277 0.295 0.292 0.290 4.03

73) DIBROMOCHLOROMETHANE
0.387 0.447 0.377 0.424 0.479 0.511 0.486 0.474 0.507 0.505 0.460 10.69

74) 1,2-DIBROMOETHANE
0.390 0.428 0.370 0.416 0.422 0.438 0.407 0.391 0.418 0.414 0.409 4.99

75) OCTANE
0.655 0.631 0.559 0.596 0.602 0.624 0.580 0.556 0.587 0.582 0.597 5.33

76) I CHLOROBENZENE-D5 ----------ISTD----------

77) 1,1,1,2-TETRACHLOROETHANE
0.343 0.367 0.294 0.339 0.374 0.394 0.367 0.357 0.377 0.379 0.359 7.87

78) CHLOROBENZENE
0.675 0.708 0.637 0.693 0.700 0.721 0.670 0.650 0.686 0.692 0.683 3.74

79) ETHYLBENZENE
1.102 1.188 1.022 1.113 1.145 1.188 1.103 1.070 1.126 1.136 1.119 4.50

80) M,P-XYLENE
0.940 0.969 0.843 0.899 0.934 0.953 0.886 0.853 0.895 0.897 0.907 4.59

81) O-XYLENE
0.848 0.949 0.803 0.890 0.917 0.935 0.865 0.834 0.876 0.883 0.880 5.14

82) STYRENE
0.585 0.667 0.537 0.636 0.698 0.728 0.678 0.664 0.699 0.705 0.660 8.95

83) NONANE

Initial Calibration Summary

Job Number: JE23794 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
           0.735 0.732 0.655 0.678 0.699 0.717 0.665 0.637 0.665 0.669  0.685    4.92
 84)  BROMOFORM
           0.327 0.379 0.342 0.378 0.440 0.475 0.457 0.452 0.483 0.489  0.422   14.30
 85)  1,1,2,2-TETRACHLOROETHANE
           0.585 0.632 0.595 0.635 0.663 0.680 0.629 0.606 0.638 0.642  0.630    4.61
 86)  1,2,3-TRICHLOROPROPANE
           0.459 0.490 0.452 0.513 0.520 0.536 0.491 0.474 0.500 0.506  0.494    5.38
 87)  4-BROMOFLUOROBENZENE
           0.795 0.797 0.788 0.782 0.814 0.814 0.811 0.819 0.805 0.827  0.805    1.77
 88)  ISOPROPYLBENZENE
           0.310 0.362 0.307 0.333 0.350 0.358 0.331 0.321 0.335 0.340  0.335    5.62
 89)  BROMOBENZENE
           0.635 0.709 0.582 0.638 0.665 0.677 0.629 0.608 0.638 0.645  0.643    5.48
 90)  2-CHLOROTOLUENE
           0.291 0.323 0.266 0.303 0.327 0.338 0.316 0.306 0.323 0.327  0.312    6.80
 91)  N-PROPYLBENZENE
           0.304 0.354 0.329 0.341 0.378 0.388 0.362 0.351 0.370 0.374  0.355    7.08
 92)  4-ETHYLTOLUENE
           1.225 1.328 1.167 1.286 1.380 1.406 1.322 1.291 1.361 1.375  1.314    5.66
 93)  1,3,5-TRIMETHYLBENZENE
           1.057 1.125 0.973 1.053 1.143 1.172 1.092 1.064 1.125 1.132  1.094    5.33
 94)  ALPHA-METHYLSTYRENE
           0.465 0.531 0.443 0.509 0.582 0.598 0.561 0.553 0.589 0.593  0.542   10.10
 95)  TERT-BUTYLBENZENE
           0.292 0.271 0.234 0.266 0.276 0.283 0.259 0.253 0.265 0.267  0.267    5.99
 96)  1,2,4-TRIMETHYLBENZENE
           0.993 1.060 0.975 1.056 1.151 1.185 1.098 1.068 1.127 1.130  1.084    6.19
 97)  BENZYL CHLORIDE
           0.665 0.680 0.609 0.685 0.934 1.021 0.987 1.003 1.077 1.097  0.876   21.94
 98)  M-DICHLOROBENZENE
           0.778 0.747 0.669 0.727 0.770 0.792 0.735 0.716 0.754 0.761  0.745    4.75
 99)  P-DICHLOROBENZENE
           0.732 0.753 0.673 0.715 0.761 0.780 0.725 0.704 0.746 0.752  0.734    4.23
100)  O-DICHLOROBENZENE
           0.638 0.739 0.634 0.684 0.718 0.733 0.678 0.665 0.706 0.715  0.691    5.41
101)  SEC-BUTYLBENZENE
           0.279 0.343 0.289 0.319 0.333 0.341 0.317 0.306 0.323 0.325  0.318    6.61
102)  1,2,3-TRIMETHYLBENZENE
           1.078 1.094 0.958 1.060 1.137 1.163 1.076 1.057 1.118 1.129  1.087    5.28
103)  P-ISOPROPYLTOLUENE
           0.330 0.354 0.319 0.351 0.372 0.383 0.354 0.342 0.361 0.363  0.353    5.38
104)  N-BUTYLBENZENE
           0.300 0.310 0.302 0.317 0.357 0.368 0.345 0.340 0.362 0.364  0.336    7.99
105)  HEXACHLOROETHANE
           0.381 0.371 0.330 0.367 0.438 0.457 0.435 0.435 0.462 0.468  0.415   11.60
106)  HEXACHLOROBUTADIENE
           0.478 0.495 0.442 0.464 0.483 0.503 0.482 0.495 0.533 0.542  0.491    6.07
107)  1,2,4-TRICHLOROBENZENE
           0.484 0.469 0.444 0.485 0.601 0.648 0.626 0.653 0.724 0.760  0.589   19.07
108)  NAPHTHALENE
           1.002 1.026 0.865 1.011 1.370 1.508 1.466 1.522 1.680 1.773  1.322   24.25

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
                      7.365 7.136 5.390 5.515 5.122 4.738 5.018 4.871  5.644   18.16
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M7W577.M          Fri Aug 08 16:10:30 2025
```

Initial Calibration Verification

Job Number: JE23794 **Sample:** V7W577-ICV577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16597.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\7w16597.D Vial: 5
Acq On : 7 Aug 2025 6:07 pm Operator: benk
Sample : icv577-10 Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	0.00	3.19
2	T	FREON 115	1.213	1.246	-2.7	95	0.00	1.58
3	T	FREON 152A	0.626	0.611	2.4	97	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.285	-4.8	100	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.329	-1.7	95	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.616	-9.2	102	0.00	1.65
7	T	PROPYLENE	0.810	0.788	2.7	97	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.153	-1.0	94	0.00	1.68
9	T	FREON 114	2.469	2.694	-9.1	101	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.350	-2.0	102	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.267	-4.2	99	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.982	-2.2	99	0.00	1.79
13	T	N-BUTANE	1.625	1.681	-3.4	99	0.00	1.80
14	T	BROMOMETHANE	0.943	0.998	-5.8	103	0.00	1.86
15	T	CHLOROETHANE	0.660	0.669	-1.4	99	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.479	-8.4	103	0.00	1.93
17	T	ACETONITRILE	1.136	1.096	3.5	103	0.00	2.00
18	T	ACROLEIN	0.540	0.545	-0.9	99	0.00	2.04
19	T	FREON 123	2.303	2.334	-1.3	94	0.00	2.05
20	T	FREON 123A	1.364	1.283	5.9	89	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.842	-9.3	101	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.550	-15.7	109	0.00	2.14
23	T	ACETONE	0.603	0.625	-3.6	97	0.00	2.07
24	T	PENTANE	1.194	1.175	1.6	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.479	-3.6	96	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	1.009	-1.8	97	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.756	2.0	91	0.00	2.46
28	T	ETHANOL	0.587	0.617	-5.1	103	0.00	1.93
29	T	BROMOETHENE	0.947	0.979	-3.4	96	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.867	-2.4	97	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.978	-0.6	99	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.547	-3.2	97	0.00	2.41
33	T	FREON 113	1.493	1.611	-7.9	99	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	1.105	-1.3	96	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	3.094	-12.3	109	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	3.270	-5.4	100	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.589	-17.1	108	0.00	3.47
38	T	HEXANE	2.090	2.121	-1.5	98	0.00	3.24
39	T	VINYL ACETATE	0.298	0.316	-6.0	99	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.238	-6.1	99	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.578	-1.4	99	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.188	-4.9	100	0.00	3.12

Initial Calibration Verification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-ICV577
Lab FileID: 7W16597.D

43	T	DIISOPROPYL ETHER	0.593	0.628	-5.9	101	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.405	-1.0	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.624	-3.8	98	0.00	3.24
46	T	CHLOROFORM	2.183	2.360	-8.1	100	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.482	-6.1	100	0.00	3.74
48	T	1,1,1-TRICHLOROETHANE	2.300	2.477	-7.7	100	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.593	-8.8	98	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.858	-9.5	100	0.00	3.66
51	t	BENZENE	3.348	3.478	-3.9	100	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.313	-6.8	100	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.159	-8.9	100	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.328	-5.1	99	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.290	-5.1	99	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.267	-0.4	98	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.656	-6.3	99	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.555	-10.1	101	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.381	-2.3	100	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.175	-18.2	106	0.00	5.02
62	T	HEPTANE	0.446	0.460	-3.1	99	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.270	-7.6	101	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.277	-3.7	101	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.423	0.0	91	0.00	5.94
66	T	TOLUENE	0.794	0.843	-6.2	100	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.426	-7.0	98	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.415	-8.6	96	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.247	-9.3	99	0.00	6.77
70	T	2-HEXANONE	0.373	0.368	1.3	103	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.451	-7.9	99	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.309	-6.6	99	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.523	-13.7	101	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.437	-6.8	98	0.00	8.00
75	T	OCTANE	0.597	0.635	-6.4	100	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.398	-10.9	99	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.728	-6.6	99	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.197	-7.0	99	0.00	10.92
80	t	M,P-XYLENE	0.907	0.962	-6.1	99	0.00	11.35
81	t	O-XYLENE	0.880	0.951	-8.1	100	0.00	12.28
82	T	STYRENE	0.660	0.702	-6.4	94	0.00	12.07
83	T	NONANE	0.685	0.720	-5.1	98	0.00	13.40
84	T	BROMOFORM	0.422	0.500	-18.5	103	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.683	-8.4	98	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.538	-8.9	98	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.816	-1.4	98	0.00	13.32
88	T	ISOPROPYLBENZENE	0.335	0.363	-8.4	99	0.00	13.79
89	T	BROMOBENZENE	0.643	0.682	-6.1	99	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.338	-8.3	98	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.388	-9.3	98	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.399	-6.5	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.162	-6.2	97	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.522	3.7	85	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.280	-4.9	97	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.161	-7.1	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.883	-0.8	85	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.774	-3.9	96	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.756	-3.0	95	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.724	-4.8	97	0.00	16.99

Initial Calibration Verification

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Sample: V7W577-ICV577
Lab FileID: 7W16597.D

101	T	SEC-BUTYLBENZENE	0.318	0.341	-7.2	98	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.159	-6.6	98	0.00	16.94
103	T	P-ISOPROPYLTOLUENE	0.353	0.382	-8.2	98	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.361	-7.4	96	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	88	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.473	3.7	92	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.619	-5.1	94	0.00	18.31
108	T	NAPHTHALENE	1.322	1.417	-7.2	92	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	98	0.00	3.19
110		TVHC as equiv Pentane	5.644	5.524	2.1	98	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Fri Aug 08 16:10:52 2025

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17473.D Vial: 2
Acq On : 26 Sep 2025 11:04 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	105	0.00	3.19
2	T	FREON 115	1.213	1.348	-11.1	110	0.00	1.58
3	T	FREON 152A	0.626	0.642	-2.6	109	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.271	0.4	102	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.425	-9.0	109	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.356	1.6	99	0.00	1.65
7	T	PROPYLENE	0.810	0.774	4.4	103	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.002	6.1	94	0.00	1.69
9	T	FREON 114	2.469	2.380	3.6	96	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.267	22.2	83	0.00	1.69
11	T	VINYL CHLORIDE	1.216	0.990	18.6	83	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.789	17.9	85	0.00	1.79
13	T	N-BUTANE	1.625	1.307	19.6	83	0.00	1.80
14	T	BROMOMETHANE	0.943	0.881	6.6	97	0.00	1.86
15	T	CHLOROETHANE	0.660	0.558	15.5	89	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.107	7.8	94	0.00	1.93
17	T	ACETONITRILE	1.136	0.823	27.6	83	0.00	2.00
18	T	ACROLEIN	0.540	0.421	22.0	82	0.00	2.04
19	T	FREON 123	2.303	2.179	5.4	95	0.00	2.05
20	T	FREON 123A	1.364	1.343	1.5	100	0.00	2.07
21	T	TRICHLOROFLUOROMETHANE	2.601	2.684	-3.2	102	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	1.930	12.4	89	0.00	2.14
23	T	ACETONE	0.603	0.508	15.8	84	0.00	2.07
24	T	PENTANE	1.194	0.971	18.7	86	0.00	2.24
25	T	IODOMETHANE	2.393	2.426	-1.4	101	0.00	2.31
26	T	1,1-DICHLOROETHYLENE	0.991	0.912	8.0	94	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.397	14.8	85	0.00	2.47
28	T	ETHANOL	0.587	0.528	10.1	95	0.00	1.94
29	T	BROMOETHENE	0.947	0.914	3.5	97	0.00	2.01
30	T	ACRYLONITRILE	0.847	0.728	14.0	87	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.847	12.9	92	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.448	15.5	85	0.00	2.41
33	T	FREON 113	1.493	1.560	-4.5	103	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.923	15.4	86	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.016	26.8	76	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.792	10.0	92	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.482	4.2	95	0.00	3.47
38	T	HEXANE	2.090	1.901	9.0	94	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	96	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.002	5.1	95	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.523	8.2	96	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.098	3.0	99	0.00	3.12

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.522	12.0	90	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.378	5.7	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.289	9.5	92	0.00	3.24
46	T	CHLOROFORM	2.183	2.158	1.1	98	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.161	7.6	94	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.281	0.8	99	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.508	-5.2	102	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.592	6.2	92	0.00	3.66
51	t	BENZENE	3.348	3.151	5.9	97	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	103	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.289	1.4	97	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.145	0.7	96	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.315	-1.0	99	0.00	5.02
56	T	1,2-DICHLOROPROPANE	0.276	0.263	4.7	94	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.320	-20.3	124	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.576	6.6	91	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.523	-3.8	99	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.242	8.0	94	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.149	-0.7	95	0.00	5.03
62	T	HEPTANE	0.446	0.408	8.5	92	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.241	4.0	95	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.235	12.0	90	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.419	0.9	94	0.00	5.94
66	T	TOLUENE	0.794	0.782	1.5	97	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.402	-1.0	96	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.381	0.3	92	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.231	-2.2	97	0.00	6.77
70	T	2-HEXANONE	0.373	0.308	17.4	90	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.403	3.6	92	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.348	-20.0	117	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.519	-12.8	105	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.417	-2.0	98	0.00	8.00
75	T	OCTANE	0.597	0.552	7.5	91	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	102	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.371	-3.3	96	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.688	-0.7	97	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.127	-0.7	97	0.00	10.92
80	t	M,P-XYLENE	0.907	0.908	-0.1	97	0.00	11.35
81	t	O-XYLENE	0.880	0.887	-0.8	97	0.00	12.28
82	T	STYRENE	0.660	0.689	-4.4	96	0.00	12.07
83	T	NONANE	0.685	0.636	7.2	90	0.00	13.40
84	T	BROMOFORM	0.422	0.614	-45.5#	132	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.627	0.5	94	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.496	-0.4	94	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.806	-0.1	101	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.334	0.3	95	0.00	13.78
89	T	BROMOBENZENE	0.643	0.623	3.1	94	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.322	-3.2	97	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.367	-3.4	96	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.345	-2.4	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.126	-2.9	98	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.560	-3.3	95	0.00	16.18
95	T	TERT-BUTYLBENZENE	0.267	0.251	6.0	90	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.121	-3.4	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.818	6.6	82	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.758	-1.7	98	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.743	-1.2	97	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.700	-1.3	97	0.00	16.99

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.304	4.4	91	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.099	-1.1	96	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.342	3.1	91	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.332	1.2	92	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.440	-6.0	98	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.799	-62.7#	162#	-0.01	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.817	-38.7#	129	0.00	18.31
108	T	NAPHTHALENE	1.322	1.545	-16.9	104	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	105	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.772	15.5	91	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Sep 29 17:09:51 2025

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17801.D Vial: 1
Acq On : 13 Oct 2025 11:18 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	121	0.00	3.19
2	T	FREON 115	1.213	1.274	-5.0	120	0.00	1.58
3	T	FREON 152A	0.626	0.645	-3.0	127	0.00	1.60
4	T	CHLORODIFLUOROMETHANE	0.272	0.278	-2.2	120	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.370	-4.8	121	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.379	0.7	115	0.00	1.64
7	T	PROPYLENE	0.810	0.764	5.7	117	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.069	2.9	112	0.00	1.68
9	T	FREON 114	2.469	2.336	5.4	108	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.270	21.3	97	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.018	16.3	98	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.790	17.8	99	0.00	1.78
13	T	N-BUTANE	1.625	1.323	18.6	97	0.00	1.80
14	T	BROMOMETHANE	0.943	0.867	8.1	110	0.00	1.86
15	T	CHLOROETHANE	0.660	0.566	14.2	103	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.179	4.7	112	0.00	1.93
17	T	ACETONITRILE	1.136	0.822	27.6	96	0.00	2.00
18	T	ACROLEIN	0.540	0.416	23.0	93	0.00	2.03
19	T	FREON 123	2.303	2.148	6.7	107	0.00	2.05
20	T	FREON 123A	1.364	1.338	1.9	114	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.670	-2.7	117	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.103	4.6	111	0.00	2.14
23	T	ACETONE	0.603	0.521	13.6	100	0.00	2.07
24	T	PENTANE	1.194	0.947	20.7	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.395	-0.1	115	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.920	7.2	109	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.401	14.6	98	0.00	2.46
28	T	ETHANOL	0.587	0.454	22.7	94	0.00	1.94
29	T	BROMOETHENE	0.947	0.905	4.4	110	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.718	15.2	99	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.841	13.5	105	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.452	14.7	99	0.00	2.41
33	T	FREON 113	1.493	1.561	-4.6	119	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.918	15.9	99	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.179	20.9	95	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.838	8.5	107	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.476	5.4	108	0.00	3.47
38	T	HEXANE	2.090	1.897	9.2	108	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	110	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	1.925	8.7	105	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.507	11.1	107	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.078	4.8	112	0.00	3.12

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.536	9.6	106	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.385	4.0	108	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.343	7.4	108	0.00	3.23
46	T	CHLOROFORM	2.183	2.141	1.9	112	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.186	6.5	109	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.290	0.4	115	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.499	-4.9	117	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.640	3.4	109	0.00	3.66
51	t	BENZENE	3.348	3.068	8.4	109	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	119	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.280	4.4	108	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.142	2.7	108	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.307	1.6	112	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.267	3.3	110	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.321	-20.7	143#	0.00	4.75
58	T	ETHYL ACRYLATE	0.617	0.588	4.7	107	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.515	-2.2	113	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.250	7.4	109	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.151	-2.0	111	0.00	5.03
62	T	HEPTANE	0.446	0.407	8.7	106	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.239	4.8	108	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.242	9.4	107	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.417	1.4	108	0.00	5.94
66	T	TOLUENE	0.794	0.769	3.1	110	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.390	2.0	108	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.387	-1.3	108	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.227	-0.4	110	0.00	6.77
70	T	2-HEXANONE	0.373	0.318	14.7	107	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.401	4.1	106	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.356	-22.8	138	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.515	-12.0	120	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.414	-1.2	112	0.00	8.00
75	T	OCTANE	0.597	0.550	7.9	105	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00	9.96
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.361	-0.6	111	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.661	3.2	111	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.091	2.5	111	0.00	10.92
80	t	M,P-XYLENE	0.907	0.883	2.6	112	0.00	11.35
81	t	O-XYLENE	0.880	0.862	2.0	111	0.00	12.27
82	T	STYRENE	0.660	0.663	-0.5	110	0.00	12.07
83	T	NONANE	0.685	0.617	9.9	104	0.00	13.40
84	T	BROMOFORM	0.422	0.611	-44.8#	155#	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.611	3.0	108	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.484	2.0	109	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.817	-1.5	121	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.323	3.6	109	0.00	13.79
89	T	BROMOBENZENE	0.643	0.604	6.1	107	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.309	1.0	110	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.352	0.8	109	0.00	15.13
92	T	4-ETHYLTOLUENE	1.314	1.312	0.2	113	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.087	0.6	112	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.540	0.4	109	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.237	11.2	101	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.091	-0.6	111	0.00	16.51
97	T	BENZYL CHLORIDE	0.876	0.828	5.5	98	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.733	1.6	112	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.718	2.2	111	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.682	1.3	112	0.00	16.99

Continuing Calibration Summary

Job Number: JE23794 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.294	7.5	104	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.068	1.7	111	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.328	7.1	103	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.317	5.7	104	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	108	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.775	-57.8#	186#	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.781	-32.6#	145#	-0.01	18.31
108	T	NAPHTHALENE	1.322	1.446	-9.4	116	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	121	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.664	17.4	102	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Oct 13 21:33:39 2025

6.9.7

6

Run Sequence Report

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2292 **Method:** TO-15 **Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2292-BFB	5W59768.D	11/06/25 21:59	n/a	BFB Tune
V5W2292-IC2292	5W59769.D	11/06/25 22:35	n/a	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25 23:11	n/a	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25 23:50	n/a	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25 03:41	n/a	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25 06:57	n/a	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	n/a	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25 08:12	n/a	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25 08:54	n/a	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25 09:38	n/a	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25 10:24	n/a	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25 12:25	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2301 **Method:** TO-15 **Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2301-BFB	5W60000.D	11/24/25 09:12	n/a	BFB Tune
V5W2301-CC2292	5W60001.D	11/24/25 09:49	n/a	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25 12:02	n/a	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25 12:39	n/a	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25 14:27	n/a	Method Blank
ZZZZZZ	5W60006.D	11/24/25 15:18	n/a	(unrelated sample)
JE23789-3	5W60007.D	11/24/25 15:56	n/a	(used for QC only; not part of job JE23794)
JE23789-3DUP	5W60008.D	11/24/25 16:33	n/a	Duplicate
ZZZZZZ	5W60009.D	11/24/25 17:15	n/a	(unrelated sample)
ZZZZZZ	5W60010.D	11/24/25 17:58	n/a	(unrelated sample)
ZZZZZZ	5W60011.D	11/24/25 18:41	n/a	(unrelated sample)
ZZZZZZ	5W60012.D	11/24/25 19:25	n/a	(unrelated sample)
ZZZZZZ	5W60013.D	11/24/25 20:08	n/a	(unrelated sample)
ZZZZZZ	5W60014.D	11/24/25 20:52	n/a	(unrelated sample)
ZZZZZZ	5W60015.D	11/24/25 21:35	n/a	(unrelated sample)
ZZZZZZ	5W60016.D	11/24/25 22:19	n/a	(unrelated sample)
ZZZZZZ	5W60017.D	11/24/25 23:02	n/a	(unrelated sample)
ZZZZZZ	5W60018.D	11/24/25 23:46	n/a	(unrelated sample)
ZZZZZZ	5W60019.D	11/25/25 00:29	n/a	(unrelated sample)
ZZZZZZ	5W60020.D	11/25/25 01:14	n/a	(unrelated sample)
JE23794-1	5W60021.D	11/25/25 01:58	n/a	OA-1
JE23794-2	5W60022.D	11/25/25 02:43	n/a	OA-2
ZZZZZZ	5W60023.D	11/25/25 03:27	n/a	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25 04:12	n/a	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25 05:54	n/a	(unrelated sample)
ZZZZZZ	5W60027.D	11/25/25 06:37	n/a	(unrelated sample)
JE23789-3	5W60028.D	11/25/25 07:20	n/a	(used for QC only; not part of job JE23794)
ZZZZZZ	5W60029.D	11/25/25 07:57	n/a	(unrelated sample)
ZZZZZZ	5W60030.D	11/25/25 08:34	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W577	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W577-BFB	7W16573.D	08/07/25 02:05	n/a	BFB Tune
V7W577-IC577	7W16576.D	08/07/25 04:00	n/a	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25 04:38	n/a	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25 08:36	n/a	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25 09:13	n/a	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25 12:29	n/a	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25 13:07	n/a	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25 13:47	n/a	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25 14:30	n/a	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25 15:15	n/a	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25 16:02	n/a	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25 18:07	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W613	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W613-BFB	7W17472.D	09/26/25 10:25	n/a	BFB Tune
V7W613-CC577	7W17473.D	09/26/25 11:04	n/a	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25 11:54	n/a	Blank Spike
V7W613-BSD	7W17475.D	09/26/25 12:32	n/a	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25 14:01	n/a	Method Blank
ZZZZZZ	7W17478.D	09/26/25 15:51	n/a	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25 16:43	n/a	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25 17:30	n/a	(unrelated sample)
JE19193-2	7W17481.D	09/26/25 18:21	n/a	(used for QC only; not part of job JE23794)
JE19193-2DUP	7W17482.D	09/26/25 19:09	n/a	Duplicate
V7W613-SCC	7W17483.D	09/26/25 19:55	n/a	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25 20:38	n/a	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25 21:22	n/a	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25 22:06	n/a	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25 22:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25 23:33	n/a	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25 00:13	n/a	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25 00:52	n/a	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25 01:31	n/a	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25 02:11	n/a	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25 02:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25 03:29	n/a	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25 04:08	n/a	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25 04:48	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JE23794
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W624	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W624-BFB	7W17800.D	10/13/25 10:41	n/a	BFB Tune
V7W624-CC577	7W17801.D	10/13/25 11:18	n/a	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25 12:00	n/a	Blank Spike
V7W624-BSD	7W17803.D	10/13/25 12:37	n/a	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25 14:03	n/a	Method Blank
ZZZZZZ	7W17806.D	10/13/25 15:24	n/a	(unrelated sample)
JE20702-1	7W17807.D	10/13/25 16:09	n/a	(used for QC only; not part of job JE23794)
JE20702-1DUP	7W17808.D	10/13/25 16:55	n/a	Duplicate
ZZZZZZ	7W17809.D	10/13/25 17:45	n/a	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25 18:38	n/a	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25 19:25	n/a	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25 20:14	n/a	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25 21:05	n/a	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25 21:58	n/a	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25 22:49	n/a	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25 23:42	n/a	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25 00:27	n/a	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25 01:14	n/a	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25 02:02	n/a	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25 02:51	n/a	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25 03:40	n/a	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25 04:19	n/a	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25 04:58	n/a	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25 05:38	n/a	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25 06:17	n/a	(unrelated sample)
ZZZZZZ	7W17826.D	10/14/25 06:55	n/a	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25 07:39	n/a	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25 08:23	n/a	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25 09:07	n/a	Summa Cleaning Certification

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60021.D
Acq On : 25 Nov 2025 1:58 am
Operator : benk
Sample : je23794-1 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 26 05:21:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

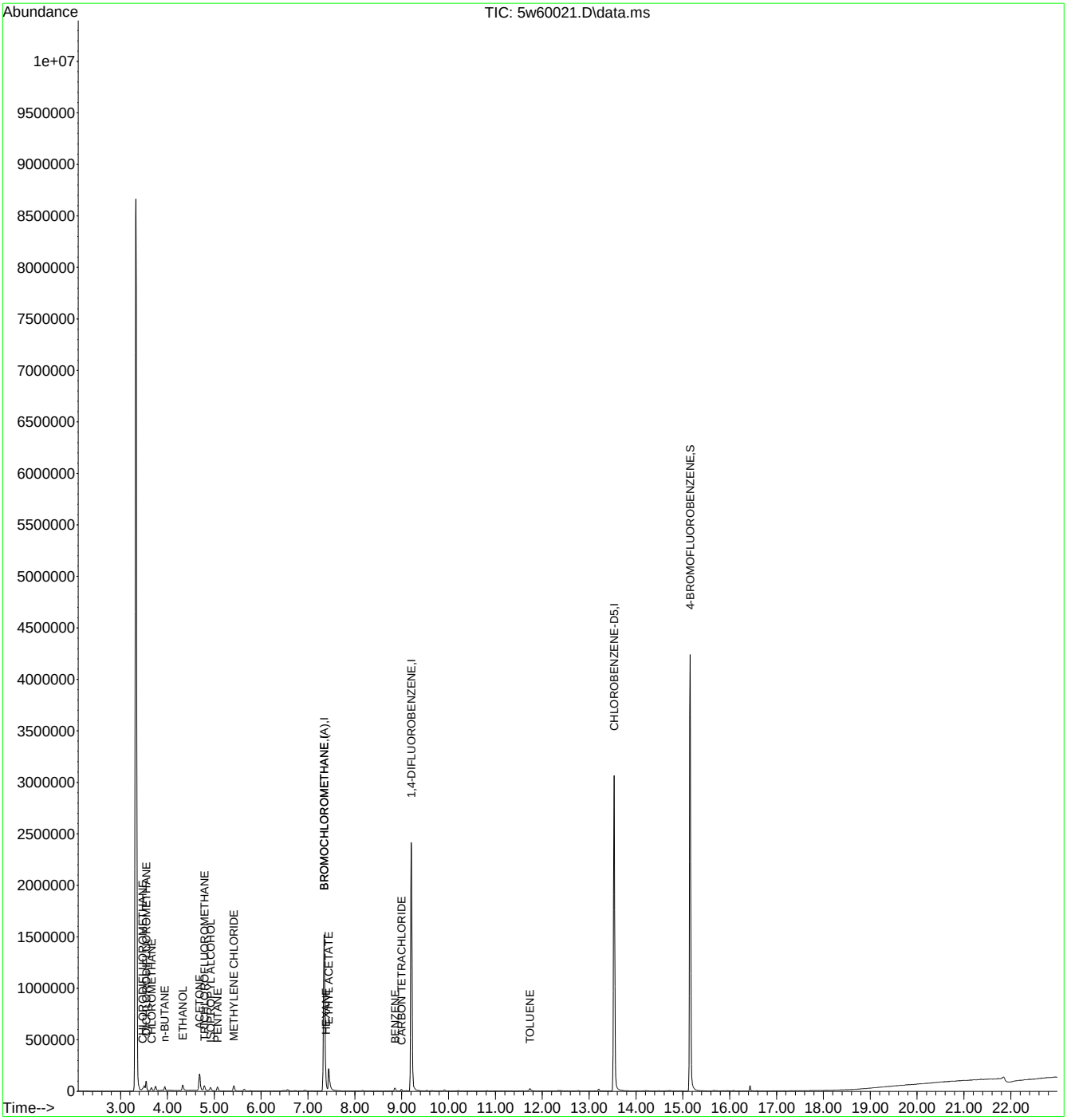
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.342	128	494809	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.202	114	2211542	10.00	PPBV	-0.01
70) CHLOROBENZENE-D5	13.533	82	1056914	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.342	128	495973	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1434053	10.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.60%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	3.470	67	4073	0.2653	PPBV	71
6) DICHLORODIFLUOROMETHANE	3.549	85	84062	0.5936	PPBV	100
10) CHLOROMETHANE	3.659	52	10022	0.6444	PPBV	85
13) n-BUTANE	3.941	43	34796	0.7378	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.791	101	39567	0.3271	PPBV	99
22) ISOPROPYL ALCOHOL	4.919	45	46628	0.4806	PPBV	91
23) ACETONE	4.687	58	71956	3.7078	PPBV	86
24) PENTANE	5.066	42	18240	0.3618	PPBV	100
28) ETHANOL	4.326	45	75251	4.6291	PPBV	98
31) METHYLENE CHLORIDE	5.415	84	26494	0.5336	PPBV	93
38) HEXANE	7.385	57	18667	0.2363	PPBV #	77
44) ETHYL ACETATE	7.440	61	52859	3.6194	PPBV	97
49) CARBON TETRACHLORIDE	8.994	117	11899	0.0955	PPBV	97
52) BENZENE	8.859	78	32939	0.2223	PPBV	98
66) TOLUENE	11.735	92	16261	0.1468	PPBV	90

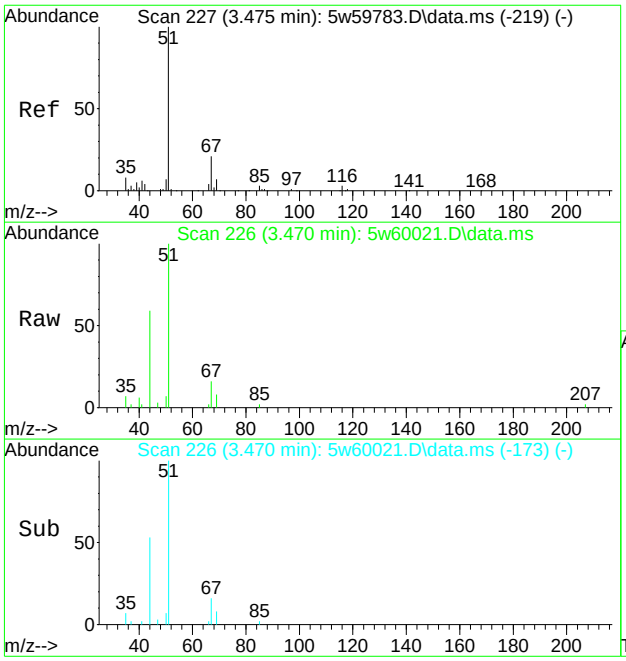
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60021.D
Acq On : 25 Nov 2025 1:58 am
Operator : benk
Sample : je23794-1 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 26 05:21:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

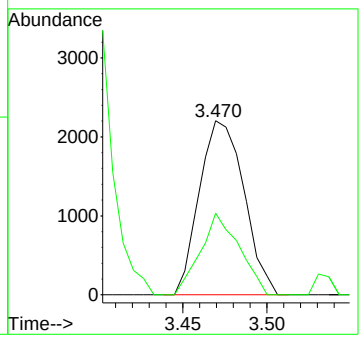


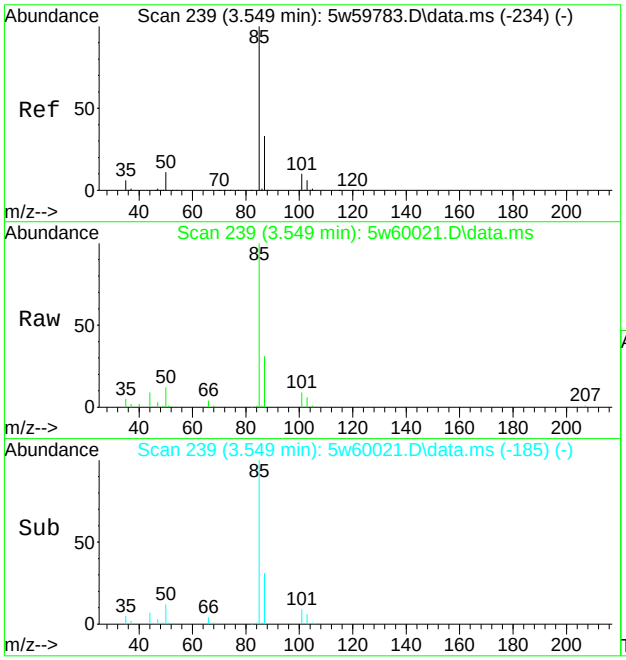


#4
CHLORODIFLUOROMETHANE
Concen: 0.2653 PPBV
RT: 3.470 min Scan# 226
Delta R.T. -0.005 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 67 Resp: 4073

Ion	Ratio	Lower	Upper
67	100		
69	46.9	1.0	61.0

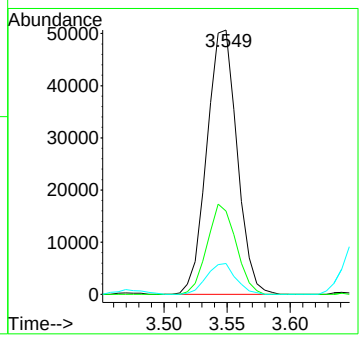


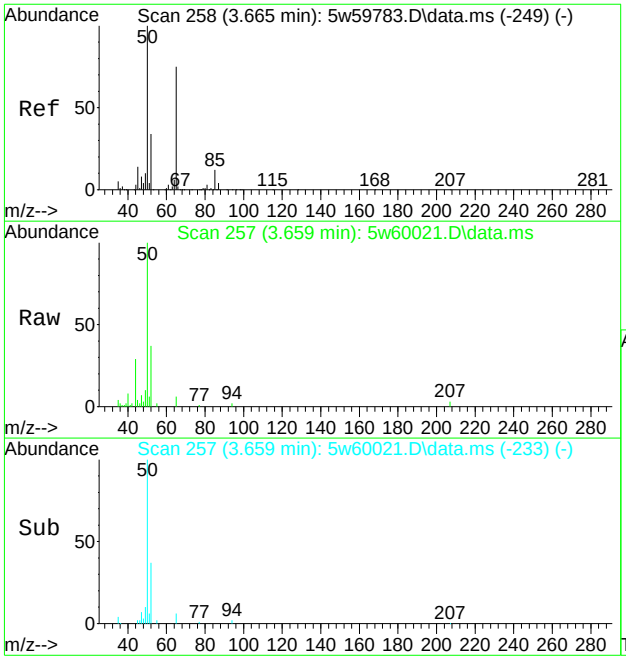


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5936 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 85 Resp: 84062

Ion	Ratio	Lower	Upper
85	100		
87	32.6	2.5	62.5
50	11.4	0.0	41.7

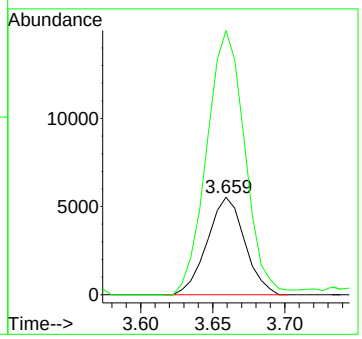


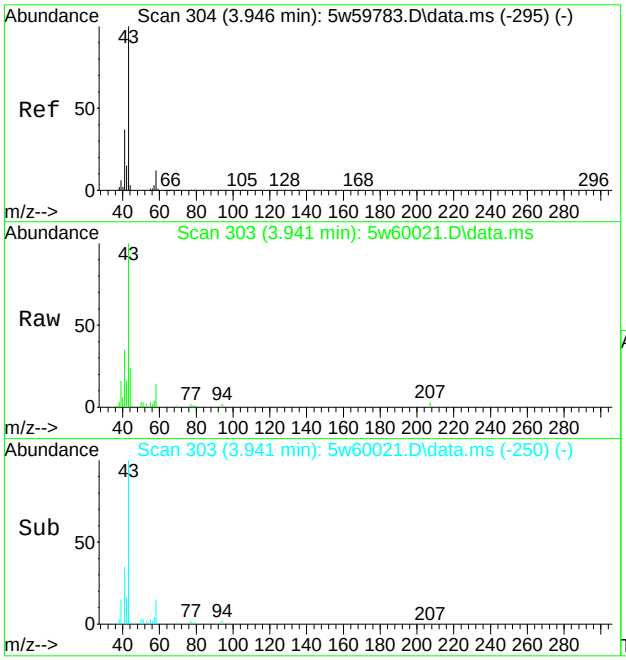


#10
CHLOROMETHANE
Concen: 0.6444 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 52 Resp: 10022

Ion	Ratio	Lower	Upper
52	100		
50	268.1	267.9	327.9

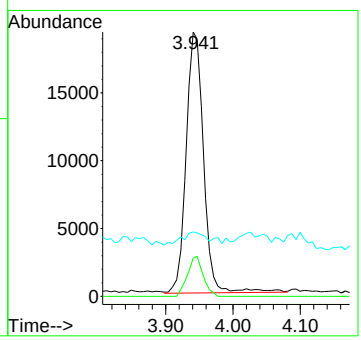


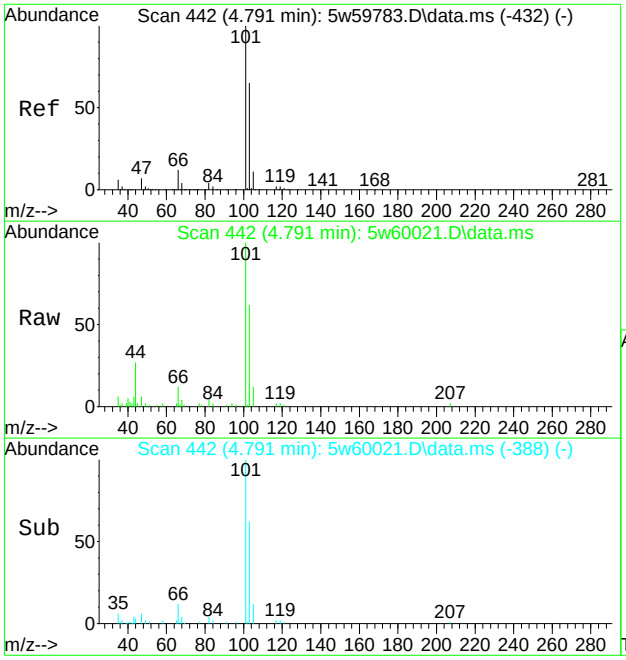


#13
n-BUTANE
Concen: 0.7378 PPBV
RT: 3.941 min Scan# 303
Delta R.T. -0.005 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 43 Resp: 34796

Ion	Ratio	Lower	Upper
43	100		
58	13.7	0.0	42.6
44	7.6	0.0	34.9

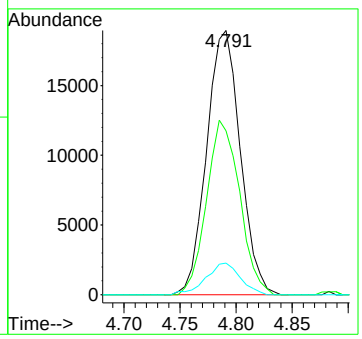


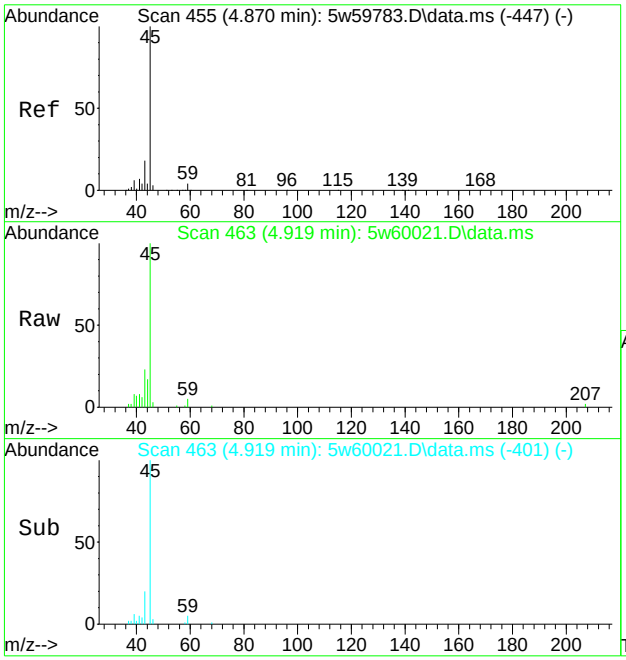


#21
TRICHLOROFLUOROMETHANE
Concen: 0.3271 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion:101 Resp: 39567

Ion	Ratio	Lower	Upper
101	100		
103	64.9	35.0	95.0
105	12.3	0.0	40.7

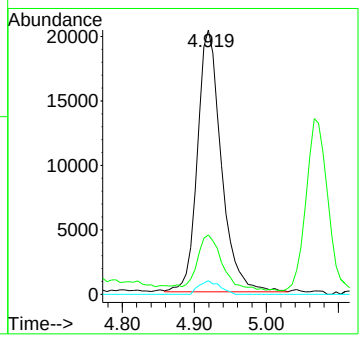


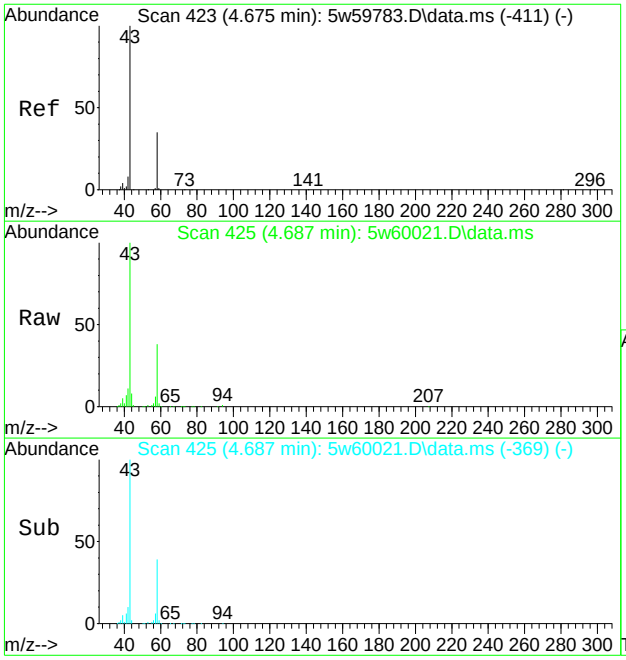


#22
ISOPROPYL ALCOHOL
Concen: 0.4806 PPBV
RT: 4.919 min Scan# 463
Delta R.T. 0.049 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 45 Resp: 46628

Ion	Ratio	Lower	Upper
45	100		
43	22.5	0.0	47.8
59	5.3	0.0	34.1

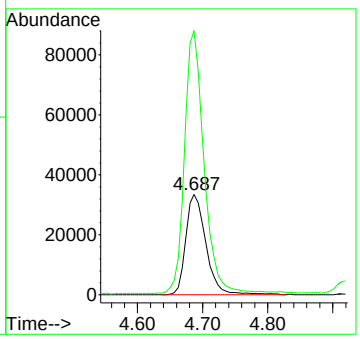


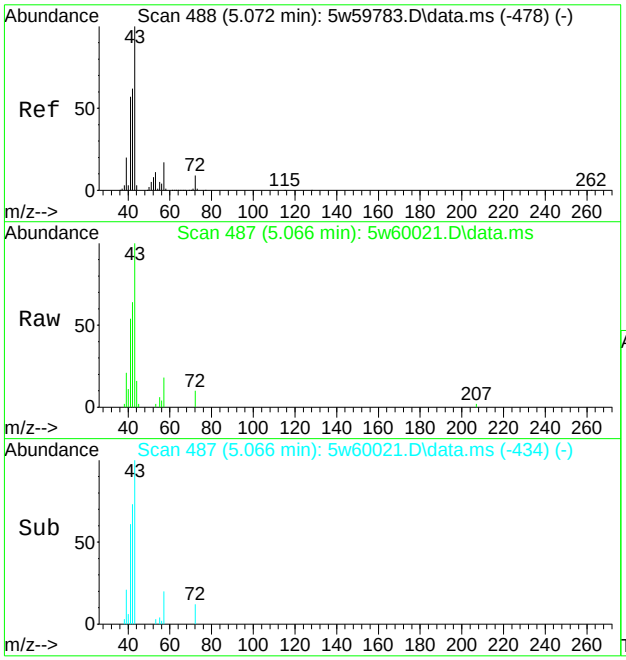


#23
ACETONE
Concen: 3.7078 PPBV
RT: 4.687 min Scan# 425
Delta R.T. 0.012 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 58 Resp: 71956

Ion	Ratio	Lower	Upper
58	100		
43	255.8	252.3	312.3

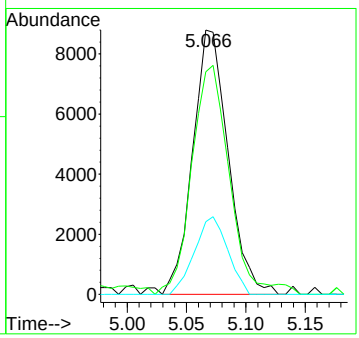


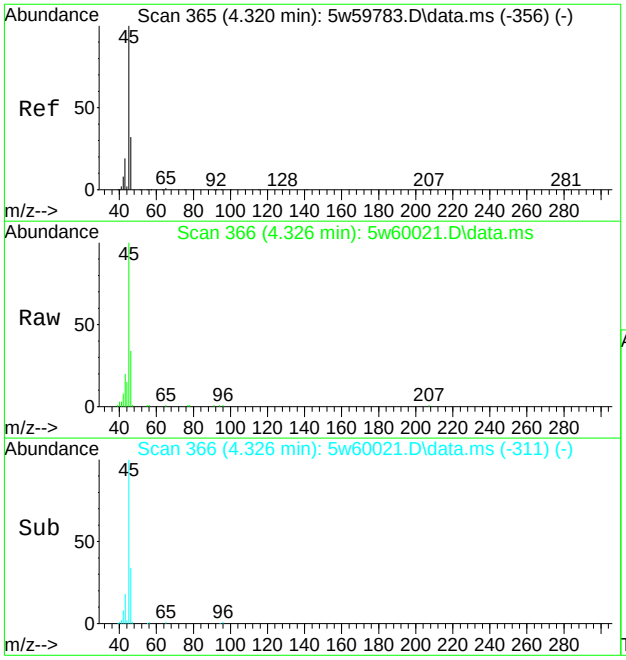


#24
PENTANE
Concen: 0.3618 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 42 Resp: 18240

Ion	Ratio	Lower	Upper
42	100		
41	92.2	62.3	122.3
57	27.5	0.0	57.7

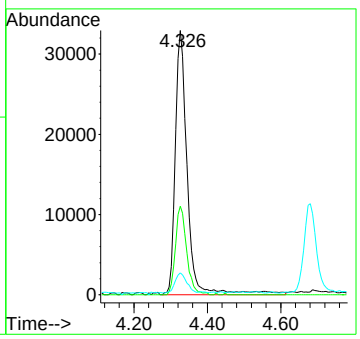


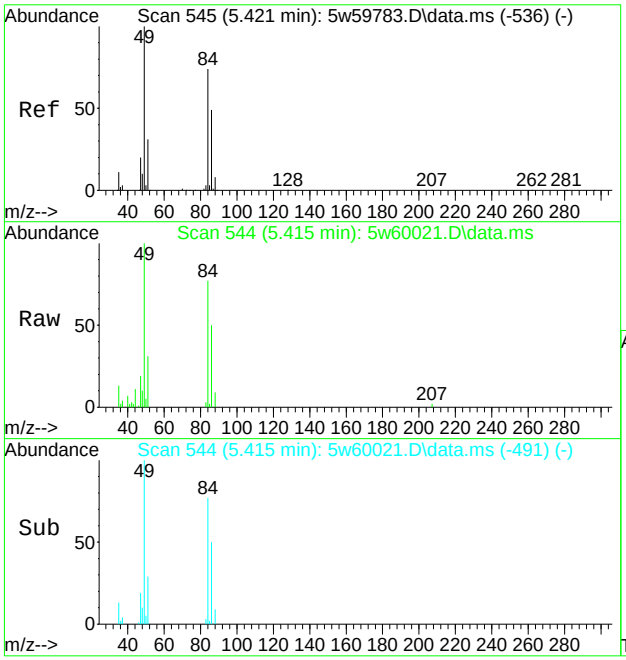


#28
ETHANOL
Concen: 4.6291 PPBV
RT: 4.326 min Scan# 366
Delta R.T. 0.006 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 45 Resp: 75251

Ion	Ratio	Lower	Upper
45	100		
46	31.2	2.0	62.0
42	10.3	0.0	38.5

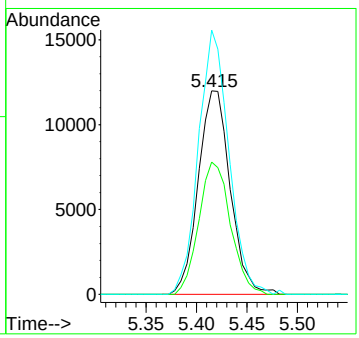


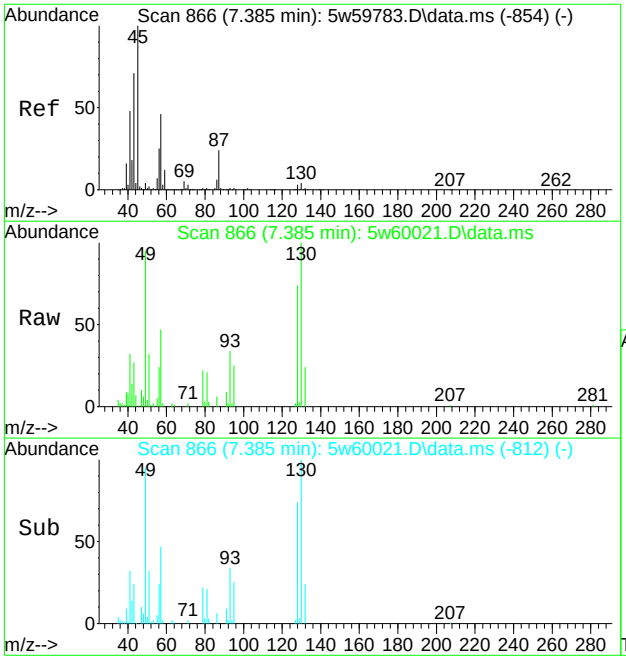


#31
METHYLENE CHLORIDE
Concen: 0.5336 PPBV
RT: 5.415 min Scan# 544
Delta R.T. -0.006 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 84 Resp: 26494

Ion	Ratio	Lower	Upper
84	100		
86	64.3	35.2	95.2
49	123.8	105.3	165.3

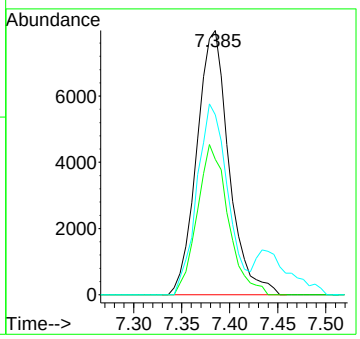


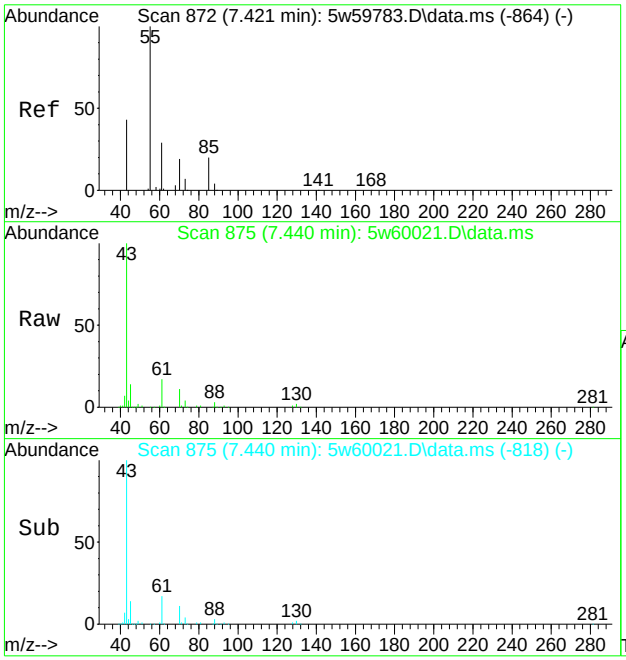


#38
HEXANE
Concen: 0.2363 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 57 Resp: 18667

Ion	Ratio	Lower	Upper
57	100		
56	54.4	25.9	85.9
41	69.8	74.7	134.7#

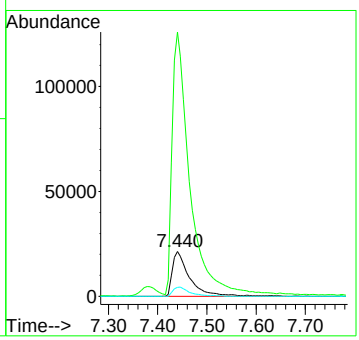


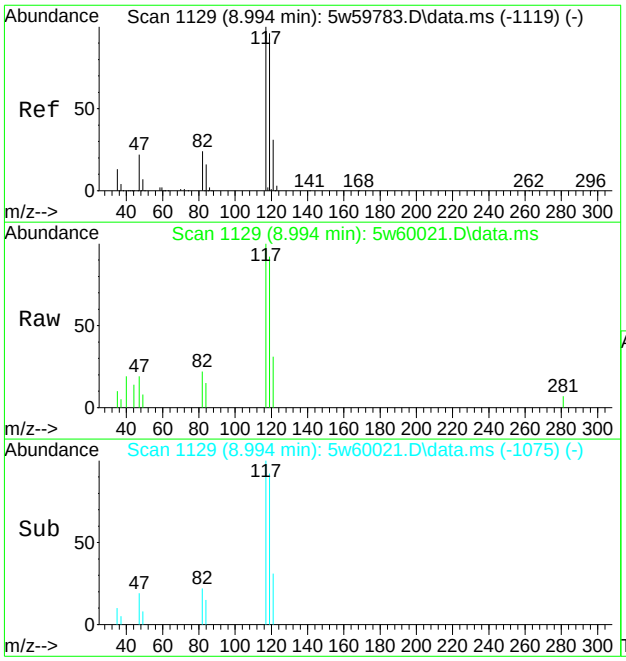


#44
ETHYL ACETATE
Concen: 3.6194 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.019 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 61 Resp: 52859

Ion	Ratio	Lower	Upper
61	100		
43	595.0	560.5	620.5
88	20.3	4.5	64.5

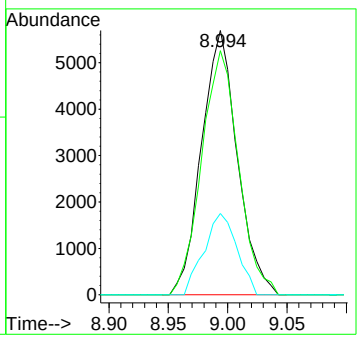


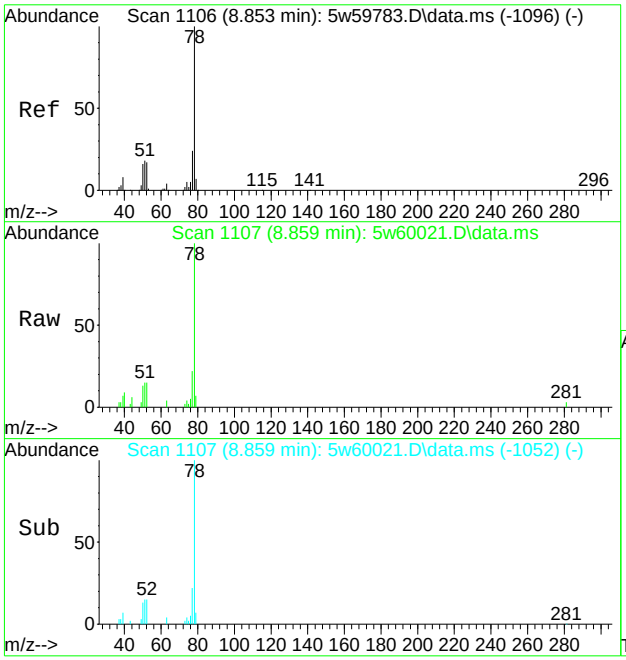


#49
CARBON TETRACHLORIDE
Concen: 0.0955 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion:117 Resp: 11899

Ion	Ratio	Lower	Upper
117	100		
119	95.2	66.9	126.9
121	28.4	1.3	61.3

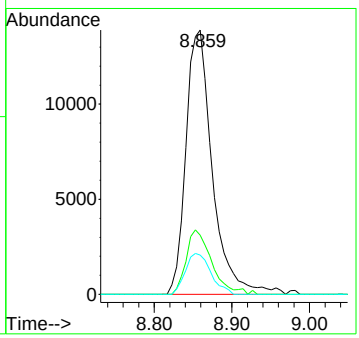


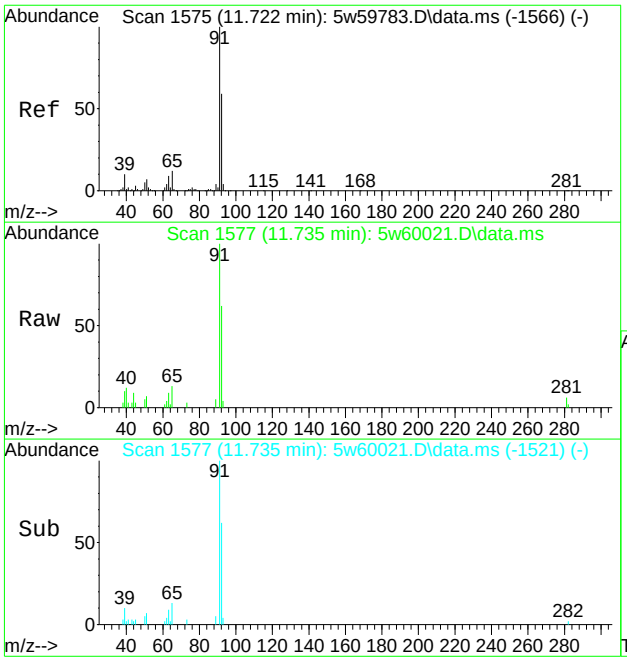


#52
BENZENE
Concen: 0.2223 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 78 Resp: 32939

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	14.9	0.0	46.9

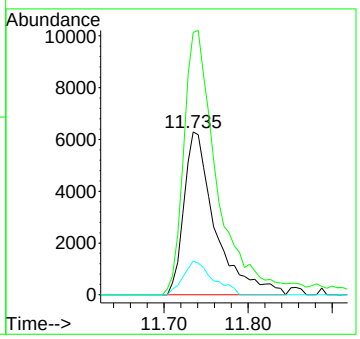




#66
TOLUENE
Concen: 0.1468 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w60021.D
Acq: 25 Nov 2025 1:58 am

Tgt Ion: 92 Resp: 16261

Ion	Ratio	Lower	Upper
92	100		
91	184.0	140.1	200.1
65	19.5	0.0	53.1



7.1.1

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60022.D
Acq On : 25 Nov 2025 2:43 am
Operator : benk
Sample : je23794-2 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 05:25:24 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

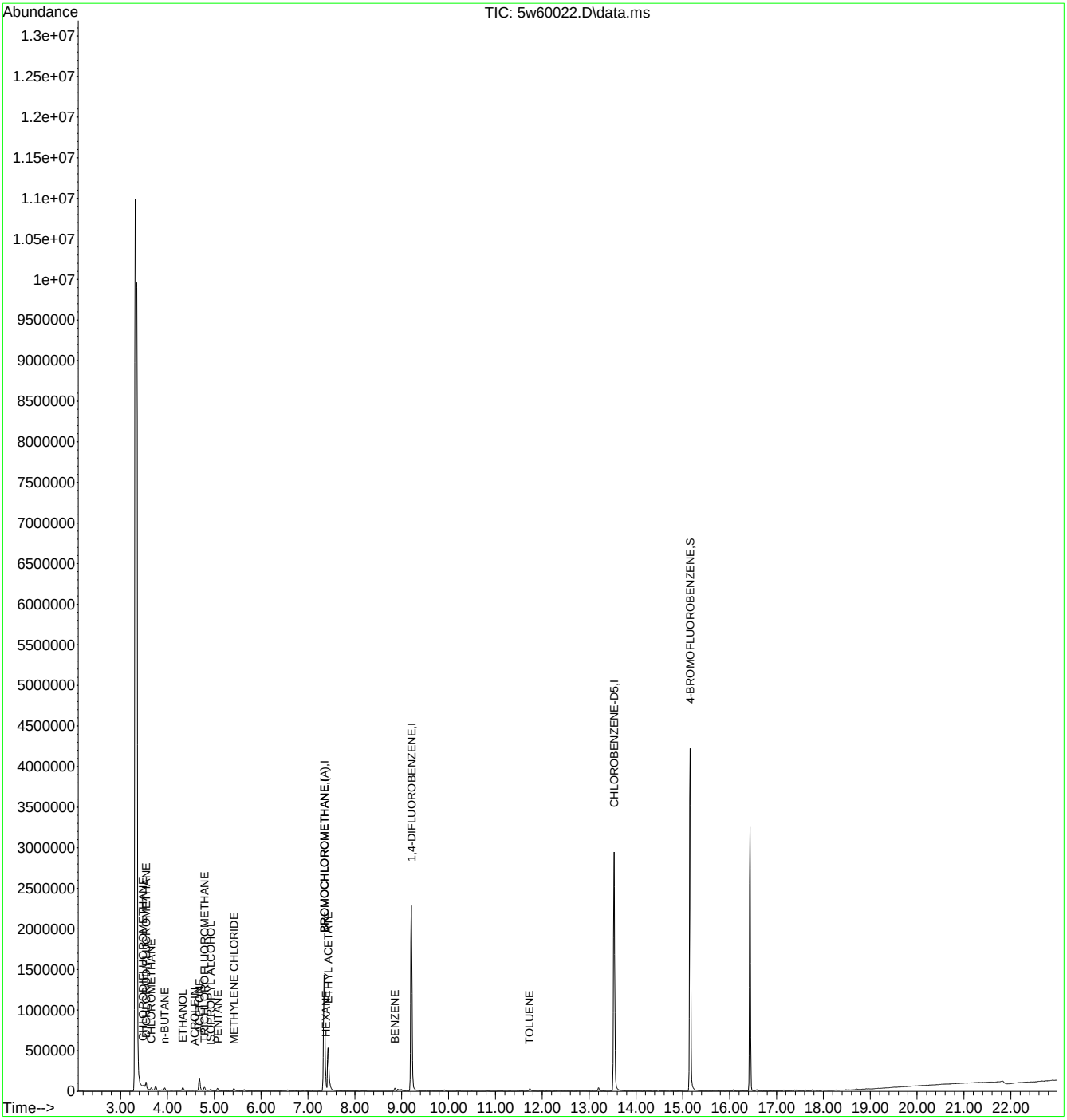
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	469833	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2110422	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1027988	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	471012	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1419910	11.05	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 110.50%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	3.475	67	3729	0.2558	PPBV	95
6) DICHLORODIFLUOROMETHANE	3.543	85	73784	0.5488	PPBV	99
10) CHLOROMETHANE	3.653	52	9014	0.6104	PPBV	85
13) n-BUTANE	3.940	43	31229	0.6974	PPBV #	95
18) ACROLEIN	4.583	56	2985	0.2053	PPBV	90
21) TRICHLOROFLUOROMETHANE	4.791	101	36744	0.3199	PPBV	98
22) ISOPROPYL ALCOHOL	4.919	45	27787	0.3016	PPBV	89
23) ACETONE	4.681	58	68075	3.6943	PPBV #	80
24) PENTANE	5.072	42	15135	0.3162	PPBV	98
28) ETHANOL	4.326	45	48392	3.1351	PPBV	97
31) METHYLENE CHLORIDE	5.421	84	16210	0.3438	PPBV	90
38) HEXANE	7.385	57	19843	0.2645	PPBV	99
44) ETHYL ACETATE	7.427	61	131312	9.4693	PPBV	98
52) BENZENE	8.853	78	38678	0.2736	PPBV	97
66) TOLUENE	11.728	92	20702	0.1959	PPBV	96

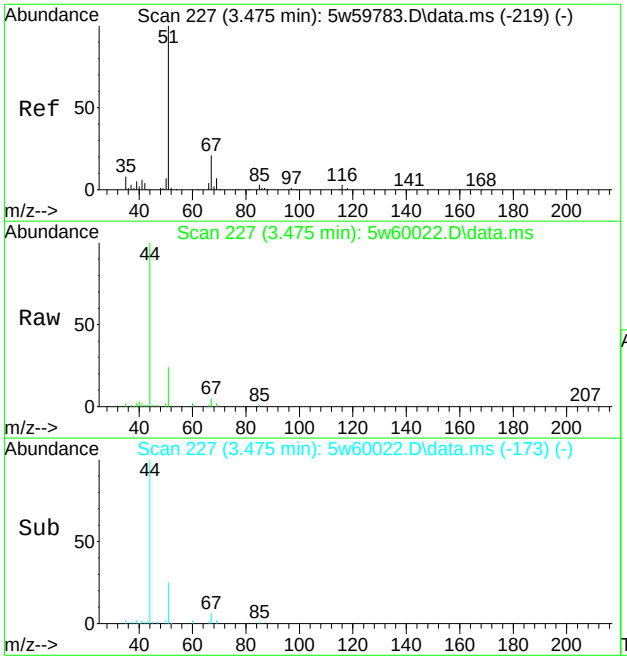
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60022.D
Acq On : 25 Nov 2025 2:43 am
Operator : benk
Sample : je23794-2 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 05:25:24 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

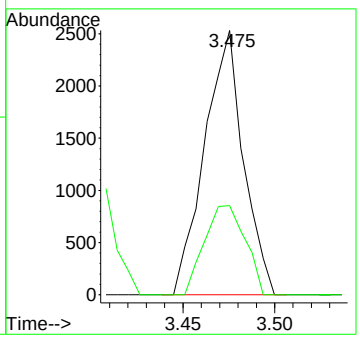


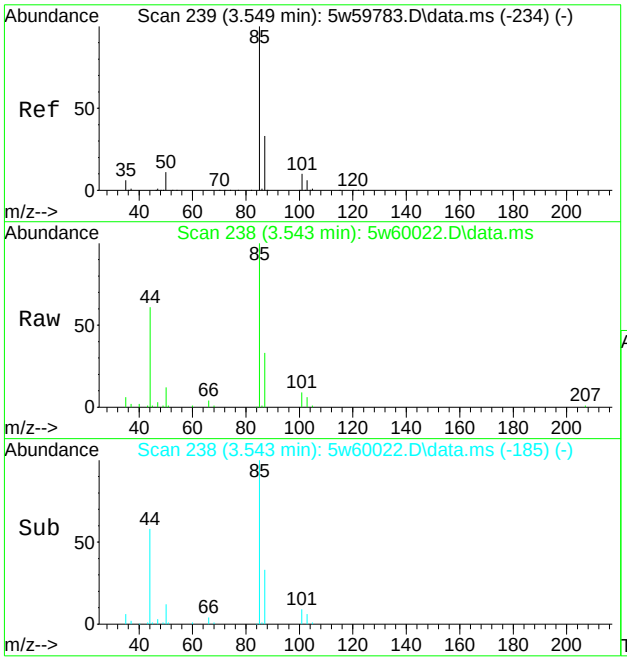


#4
CHLORODIFLUOROMETHANE
Concen: 0.2558 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 67 Resp: 3729

Ion	Ratio	Lower	Upper
67	100		
69	33.8	1.0	61.0

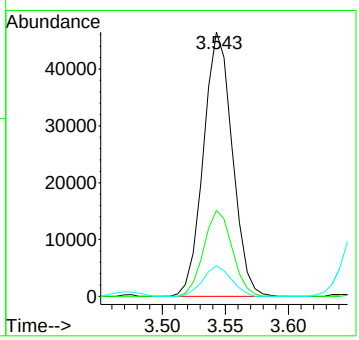


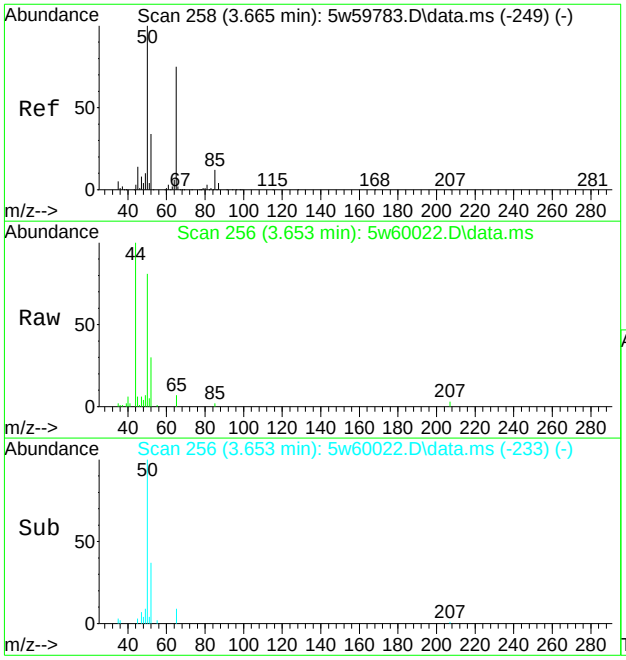


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5488 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 85 Resp: 73784

Ion	Ratio	Lower	Upper
85	100		
87	32.0	2.5	62.5
50	11.4	0.0	41.7

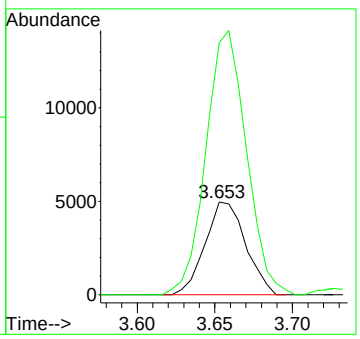


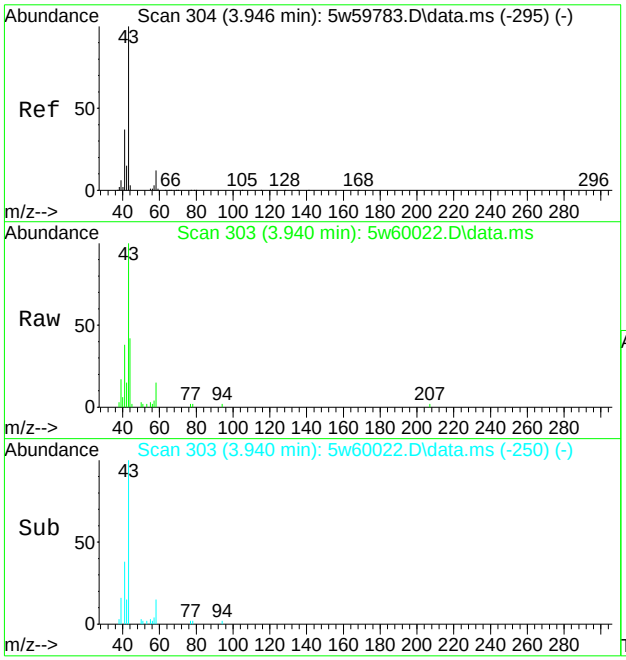


#10
CHLOROMETHANE
Concen: 0.6104 PPBV
RT: 3.653 min Scan# 256
Delta R.T. -0.012 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 52 Resp: 9014

Ion	Ratio	Lower	Upper
52	100		
50	268.8	267.9	327.9

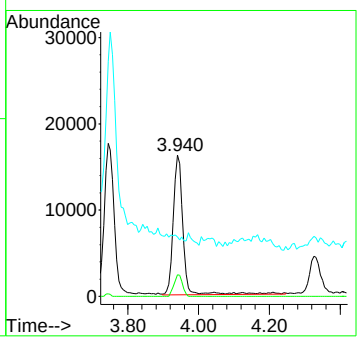


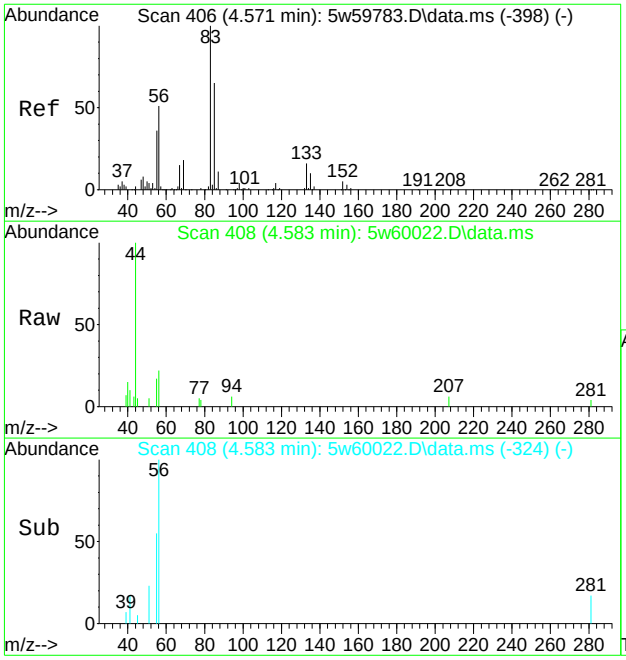


#13
n-BUTANE
Concen: 0.6974 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 43 Resp: 31229

Ion	Ratio	Lower	Upper
43	100		
58	13.2	0.0	42.6
44	0.0	0.0	34.9

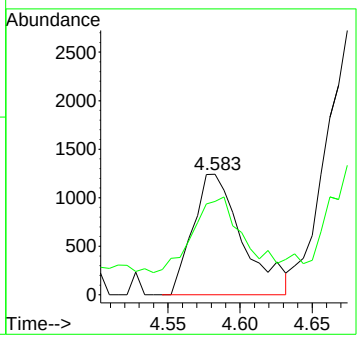


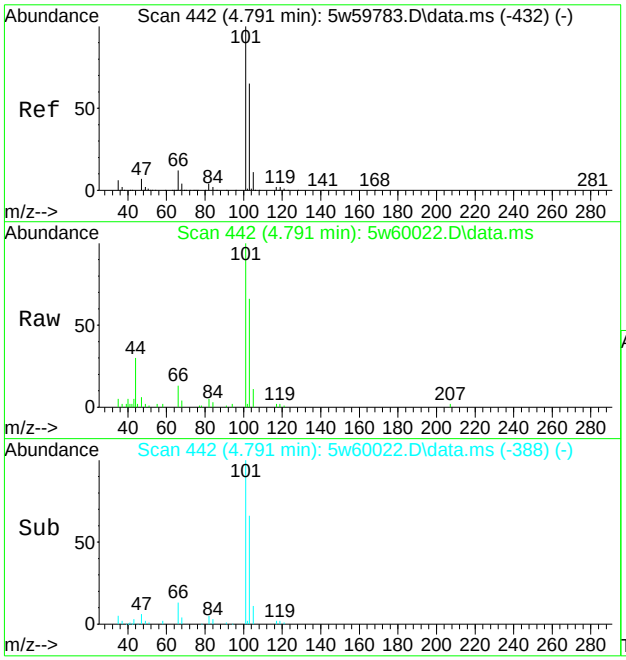


#18
ACROLEIN
Concen: 0.2053 PPBV
RT: 4.583 min Scan# 408
Delta R.T. 0.012 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 56 Resp: 2985

Ion	Ratio	Lower	Upper
56	100		
55	74.4	46.6	86.6

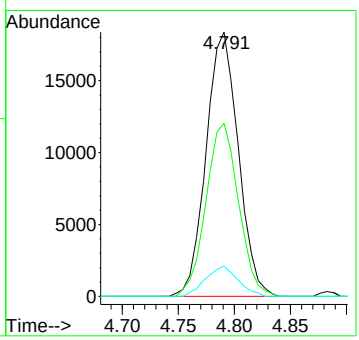


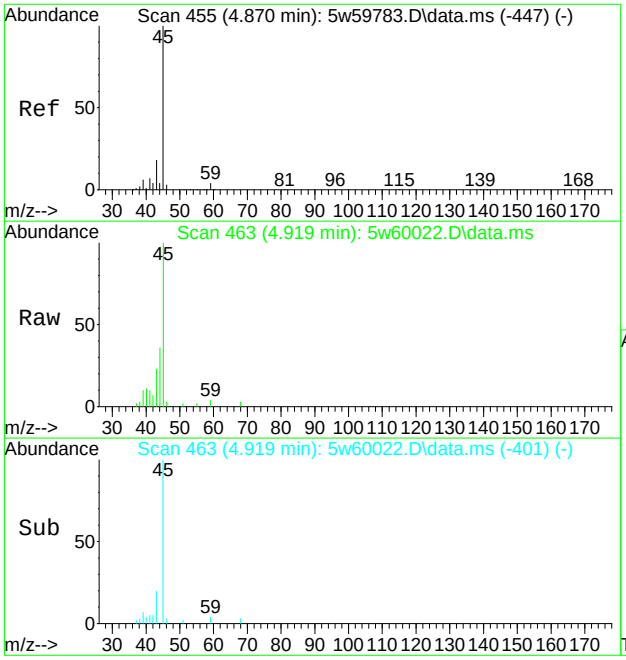


#21
TRICHLOROFLUOROMETHANE
Concen: 0.3199 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion:101 Resp: 36744

Ion	Ratio	Lower	Upper
101	100		
103	66.2	35.0	95.0
105	11.5	0.0	40.7

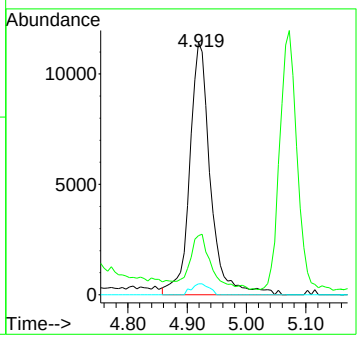


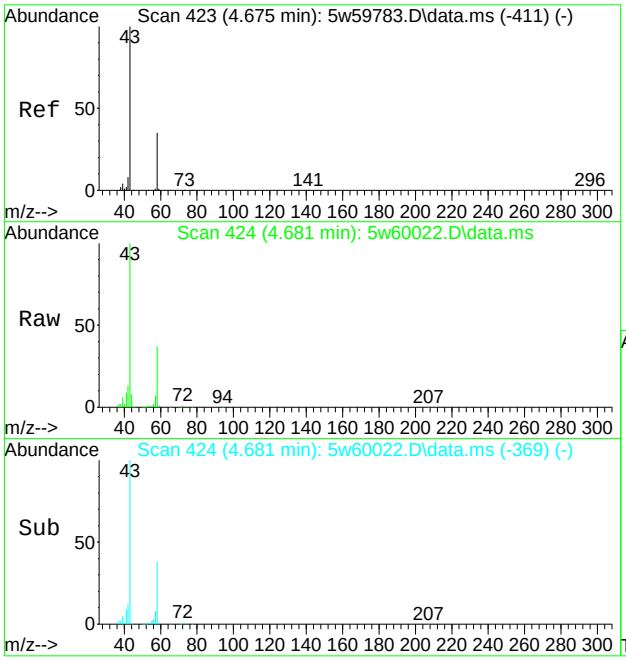


#22
ISOPROPYL ALCOHOL
Concen: 0.3016 PPBV
RT: 4.919 min Scan# 463
Delta R.T. 0.049 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 45 Resp: 27787

Ion	Ratio	Lower	Upper
45	100		
43	23.4	0.0	47.8
59	4.3	0.0	34.1

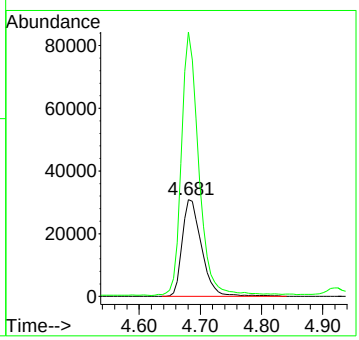


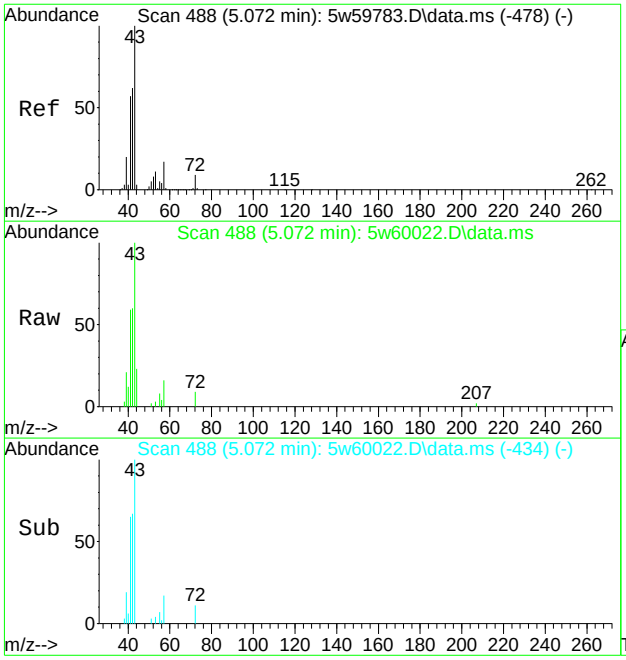


#23
ACETONE
Concen: 3.6943 PPBV
RT: 4.681 min Scan# 424
Delta R.T. 0.006 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 58 Resp: 68075

Ion	Ratio	Lower	Upper
58	100		
43	245.3	252.3	312.3#

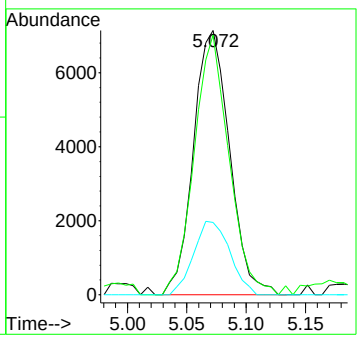


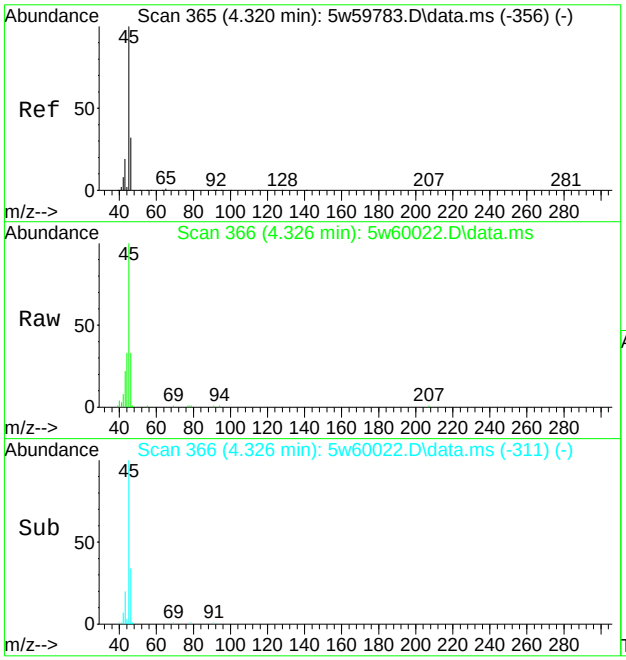


#24
PENTANE
Concen: 0.3162 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 42 Resp: 15135

Ion	Ratio	Lower	Upper
42	100		
41	94.3	62.3	122.3
57	27.8	0.0	57.7

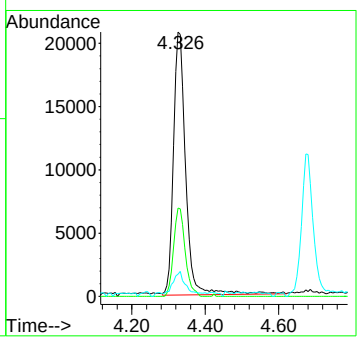


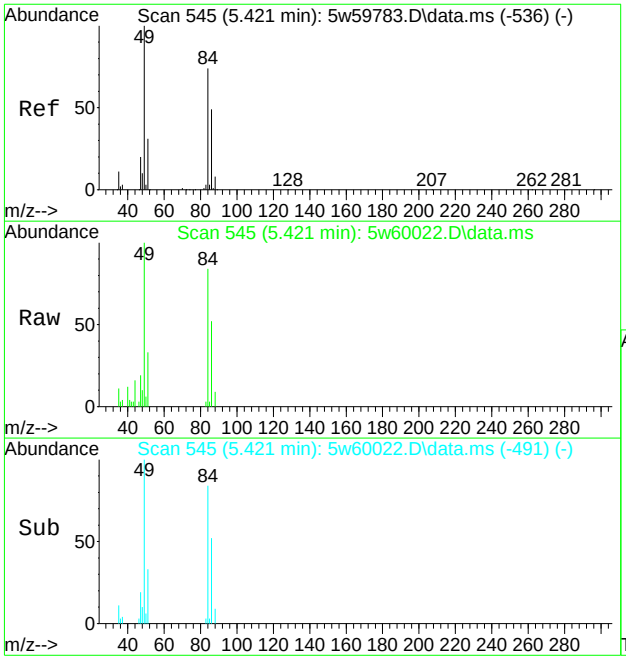


#28
ETHANOL
Concen: 3.1351 PPBV
RT: 4.326 min Scan# 366
Delta R.T. 0.006 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 45 Resp: 48392

Ion	Ratio	Lower	Upper
45	100		
46	31.7	2.0	62.0
42	12.1	0.0	38.5

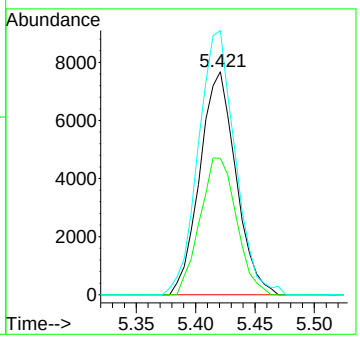


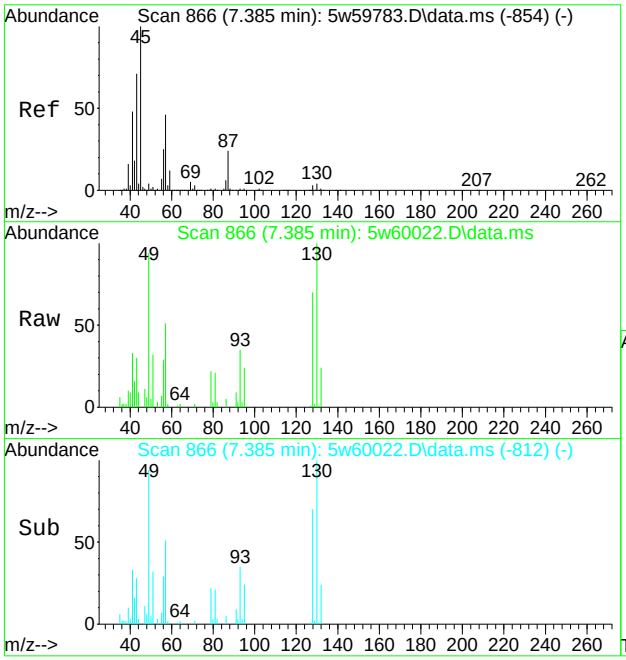


#31
METHYLENE CHLORIDE
Concen: 0.3438 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 84 Resp: 16210

Ion	Ratio	Lower	Upper
84	100		
86	61.7	35.2	95.2
49	120.7	105.3	165.3

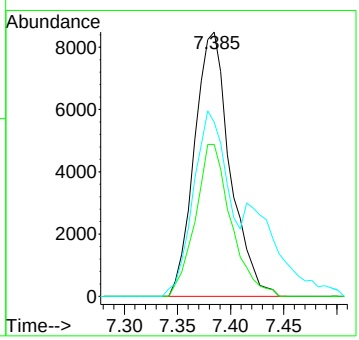


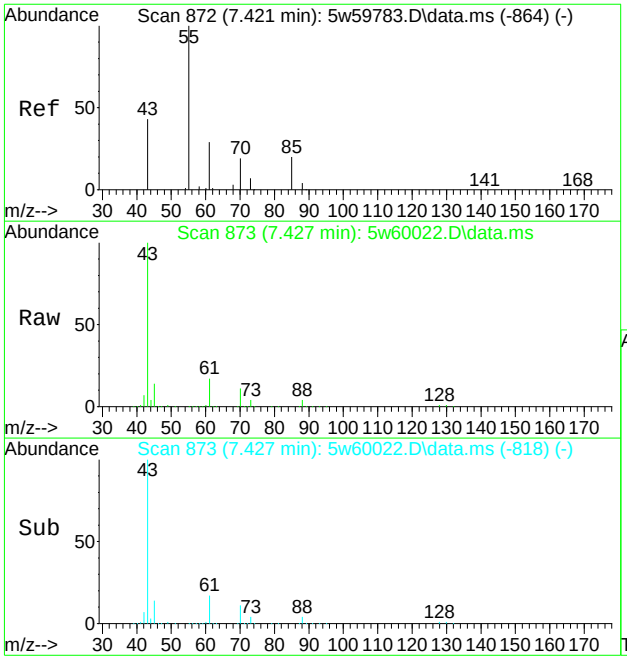


#38
HEXANE
Concen: 0.2645 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 57 Resp: 19843

Ion	Ratio	Lower	Upper
57	100		
56	57.4	25.9	85.9
41	104.5	74.7	134.7

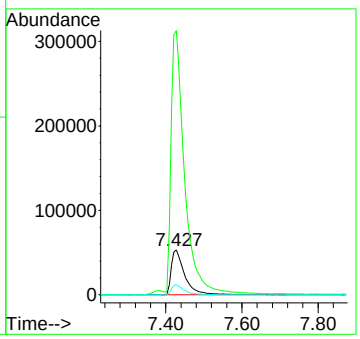


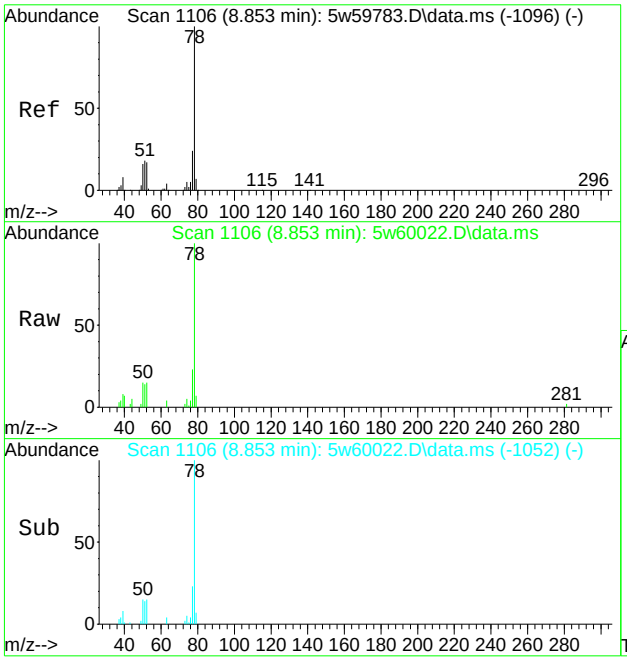


#44
ETHYL ACETATE
Concen: 9.4693 PPBV
RT: 7.427 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 61 Resp: 131312

Ion	Ratio	Lower	Upper
61	100		
43	586.6	560.5	620.5
88	21.4	4.5	64.5

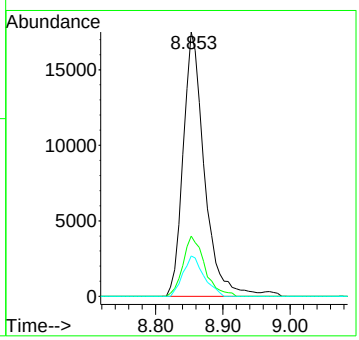


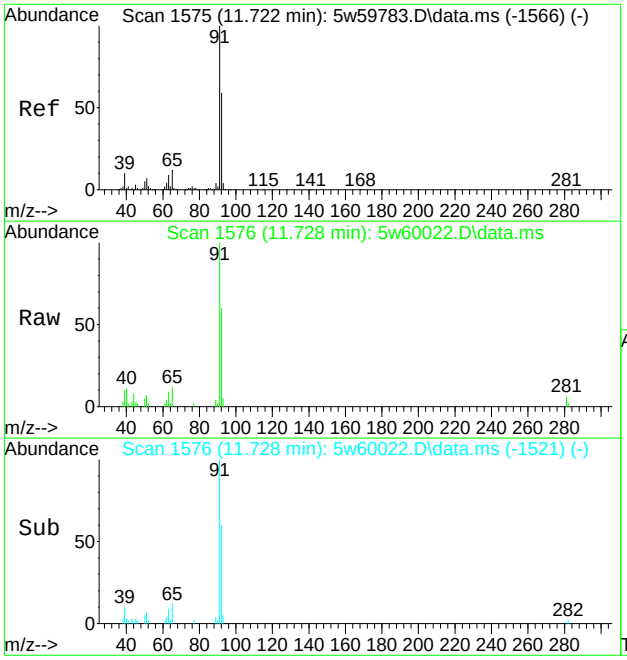


#52
BENZENE
Concen: 0.2736 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. -0.000 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 78 Resp: 38678

Ion	Ratio	Lower	Upper
78	100		
77	23.2	0.0	53.8
52	14.9	0.0	46.9

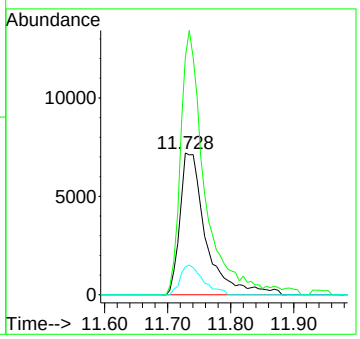




#66
TOLUENE
Concen: 0.1959 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60022.D
Acq: 25 Nov 2025 2:43 am

Tgt Ion: 92 Resp: 20702

Ion	Ratio	Lower	Upper
92	100		
91	174.9	140.1	200.1
65	18.4	0.0	53.1



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

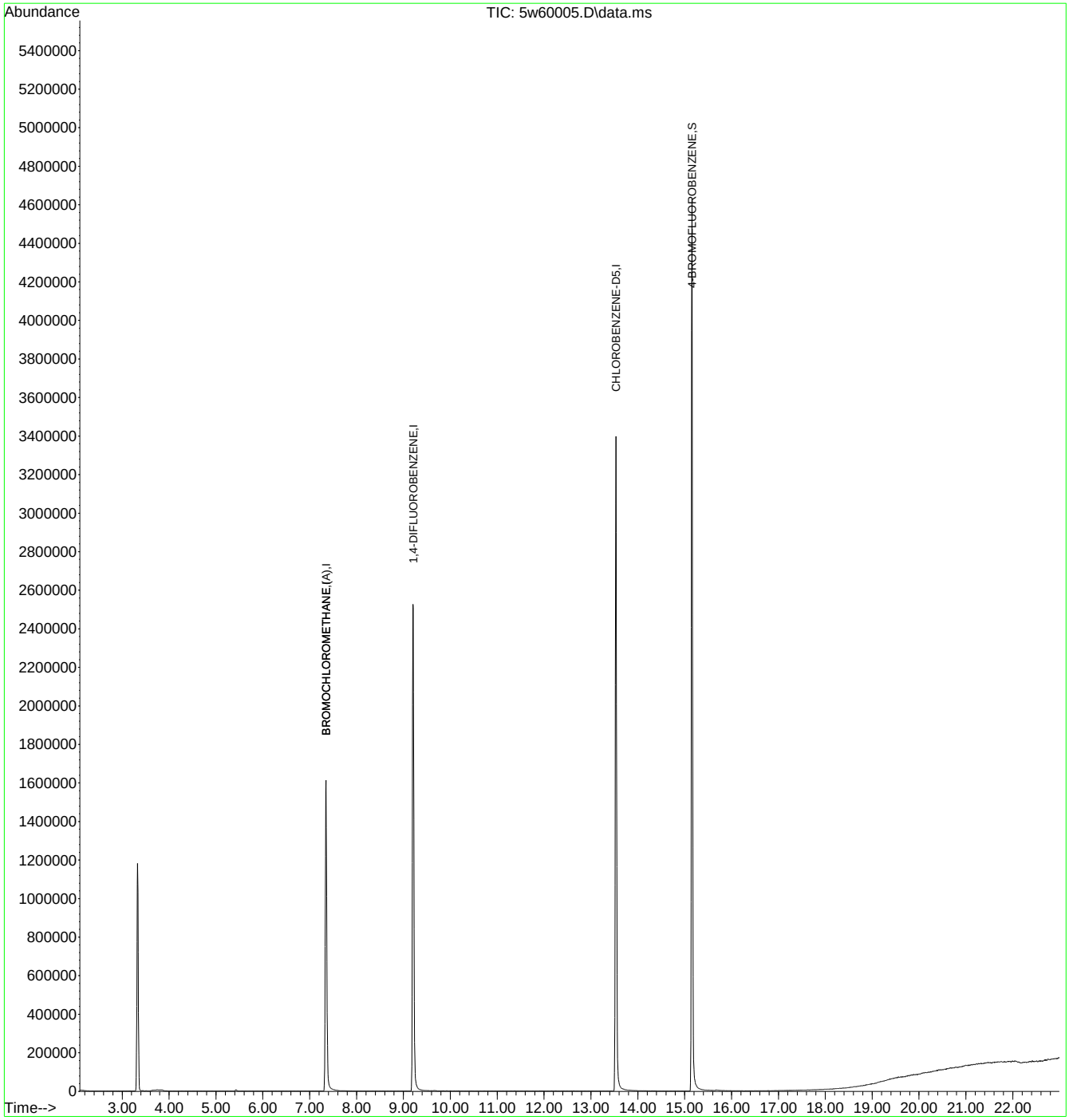
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	551412	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2422137	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1175032	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	553790	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1558462	10.62	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.20%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

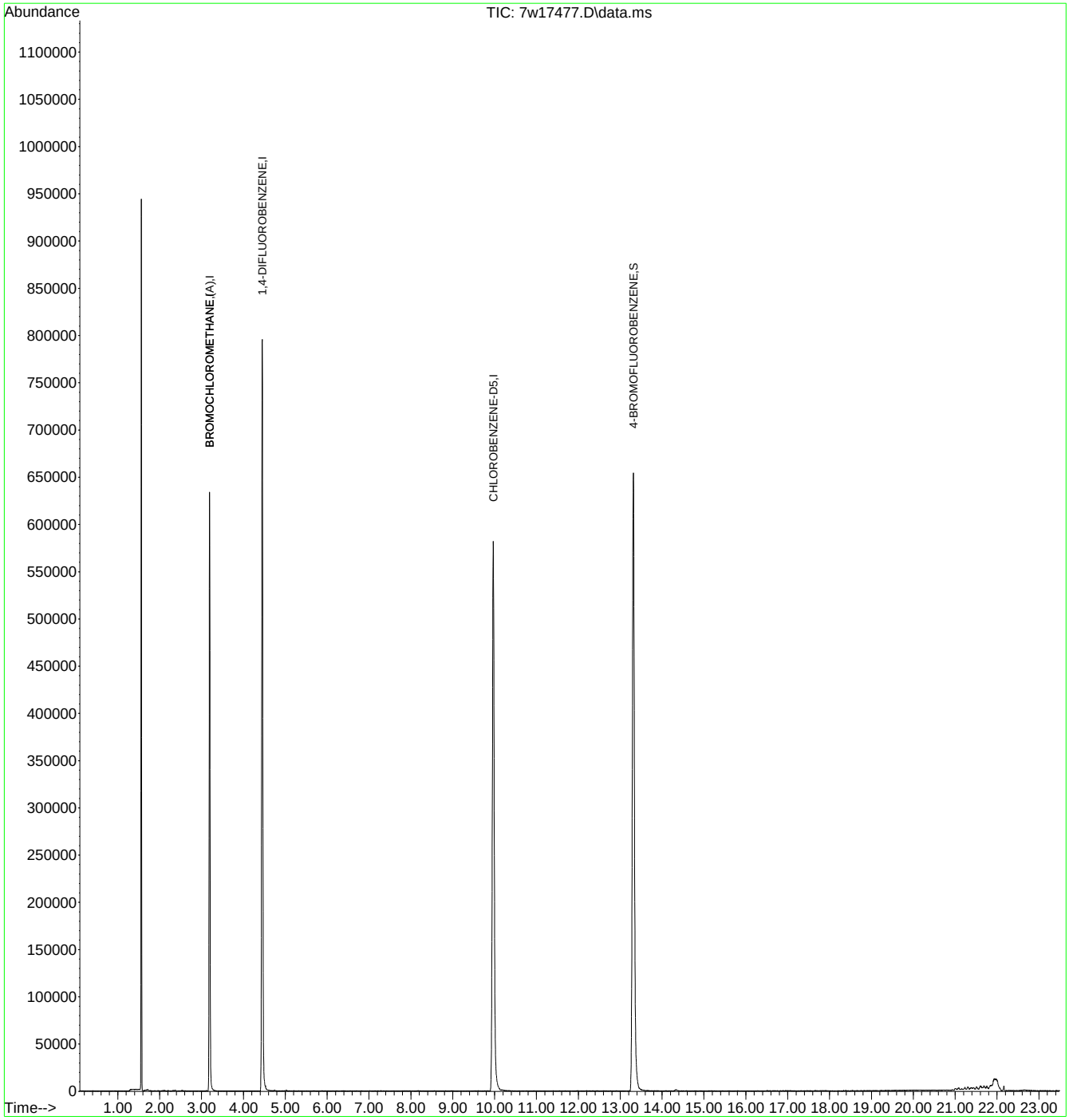
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	128174	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	642694	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	594320	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	128174	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	451678	9.44	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

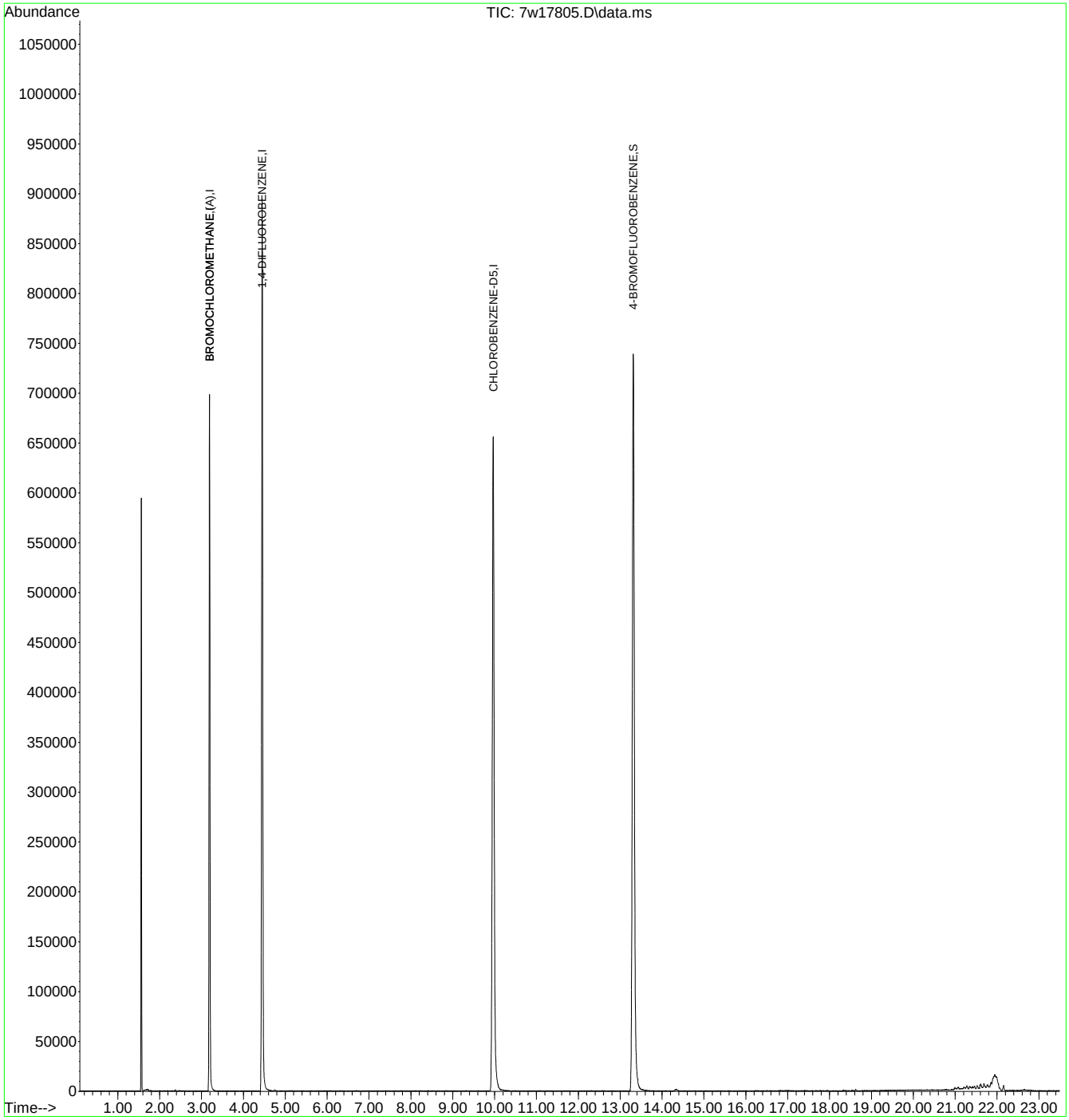
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	141808	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	703798	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	657479	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	141808	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	501563	9.47	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	477635	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2106400	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1093252	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	477635	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1356906	9.93	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.30%			
Target Compounds						Qvalue
2) FREON 115	3.378	119	240600	7.3523	PPBV	99
3) FREON 152A	3.451	65	340897	9.6234	PPBV	96
4) CHLORODIFLUOROMETHANE	3.482	67	173657	11.7195	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.512	116	869018	11.7123	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.555	85	1610737	11.7838	PPBV	98
7) PROPYLENE	3.506	41	350050	9.5479	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1227255	11.0863	PPBV	98
9) FREON 114	3.739	85	1541030	12.3325	PPBV	100
10) CHLOROMETHANE	3.671	52	145917	9.7203	PPBV	97
11) VINYL CHLORIDE	3.824	62	498599	10.7753	PPBV	100
12) 1,3-BUTADIENE	3.916	54	301164	10.8112	PPBV	99
13) n-BUTANE	3.953	43	488858	10.7389	PPBV	98
14) BROMOMETHANE	4.112	94	569388	11.5706	PPBV	100
15) CHLOROETHANE	4.234	64	221549	9.8142	PPBV	99
16) DICHLOROFLUOROMETHANE	4.295	67	1109461	11.2826	PPBV	99
17) ACETONITRILE	4.485	41	262953	10.1114	PPBV	100
18) ACROLEIN	4.577	56	156039	10.5589	PPBV	98
19) FREON 123	4.595	83	1275447	11.2118	PPBV #	71
20) FREON 123A	4.638	117	772471	11.8230	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.797	101	1369754	11.7315	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	890471	9.5073	PPBV	99
23) ACETONE	4.681	58	190458	10.1670	PPBV	94
24) PENTANE	5.078	42	438928	9.0202	PPBV	99
25) IODOMETHANE	5.256	142	1749912	12.0245	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.323	96	543628	10.6119	PPBV	93
27) CARBON DISULFIDE	5.678	76	1448112	10.7882	PPBV	98
28) ETHANOL	4.326	45	178411	11.3698	PPBV	99
29) BROMOETHENE	4.485	106	577429	11.8977	PPBV	100
30) ACRYLONITRILE	5.048	52	316874	9.9950	PPBV	99
31) METHYLENE CHLORIDE	5.427	84	467883	9.7626	PPBV	92
32) 3-CHLOROPROPENE	5.525	76	226892	9.8346	PPBV	88
33) FREON 113	5.647	151	974773	11.4357	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	548163	10.2055	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.384	59	972270	10.1517	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.479	73	1396961	10.3330	PPBV	97
37) TETRAHYDROFURAN	7.856	72	210812	11.3678	PPBV	91
38) HEXANE	7.385	57	756923	9.9262	PPBV	99
39) VINYL ACETATE	6.571	86	87754	11.3789	PPBV #	75
40) 1,1-DICHLOROETHANE	6.424	63	953472	9.6741	PPBV	99
41) METHYL ETHYL KETONE	6.798	72	230629	12.5008	PPBV #	84
42) cis-1,2-DICHLOROETHYLENE	7.201	96	583866	9.9734	PPBV	94
43) DIISOPROPYL ETHER	7.391	59	237718	11.8560	PPBV	94
44) ETHYL ACETATE	7.422	61	176619	12.5284	PPBV #	1
45) METHYL ACRYLATE	7.409	55	948114	12.5543	PPBV	98
46) CHLOROFORM	7.477	83	1211542	11.4081	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	866235	10.0371	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1247024	11.2579	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1372682	11.4094	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	801218	10.8575	PPBV		99
52)	BENZENE	8.853	78	1557974	11.0402	PPBV		98
53)	CYCLOHEXANE	9.104	84	613975	10.8904	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.349	71	306612	10.7626	PPBV		92
55)	TRICHLOROETHYLENE	9.887	95	797832	11.0985	PPBV		100
56)	1,2-DICHLOROPROPANE	9.648	63	593320	9.0562	PPBV		99
57)	DIBROMOMETHANE	9.630	174	871066	10.8406	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	1136650	11.1015	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1381772	11.0855	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2319907	10.3884	PPBV		100
61)	1,4-DIOXANE	9.899	88	350755	10.8965	PPBV		94
62)	HEPTANE	10.181	43	766095	9.4348	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	517632	11.2549	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.792	58	471710	11.3302	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1017497	10.1371	PPBV		95
66)	TOLUENE	11.716	92	1121935	10.6362	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	902626	10.4980	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	919315	9.7025	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	631574	11.0269	PPBV		100
71)	2-HEXANONE	12.010	58	684568	11.9712	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	912136	12.0768	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	963989	12.9264	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.144	129	1579609	12.2672	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1280981	12.7862	PPBV		100
76)	OCTANE	12.738	43	1084136	10.4396	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1018658	12.4242	PPBV		99
78)	CHLOROBENZENE	13.582	112	1637921	11.9899	PPBV		100
79)	ETHYLBENZENE	13.980	91	2539898	12.1204	PPBV		100
80)	m,p-XYLENE	14.169	106	1940190	23.4941	PPBV		99
81)	o-XYLENE	14.677	106	958925	12.4007	PPBV		100
82)	STYRENE	14.567	104	1511270	12.5221	PPBV		99
83)	NONANE	14.928	43	1114955	10.6142	PPBV		97
84)	BROMOFORM	14.243	173	1714310	13.4966	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1674189	12.4499	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1150923	10.6445	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2755878	11.6391	PPBV		100
89)	BROMOBENZENE	15.375	77	1347534	10.9390	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	747013	11.3913	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	769370	12.1202	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2824547	13.0416	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2342515	11.6338	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1204069	12.1371	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	534840	13.0829	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2503827	13.3251	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1863396	12.9729	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2290925	13.2334	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1868035	12.0955	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	634126	12.2457	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2573220	12.9495	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	788089	13.4263	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1788603	12.4134	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	738576	12.8477	PPBV		99
105)	HEXACHLOROETHANE	17.607	117	1125990	11.3634	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1828537	13.6527	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1796737	13.4571	PPBV		100
108)	NAPHTHALENE	18.660	128	3954766	13.5904	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	2952896	10.2236	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

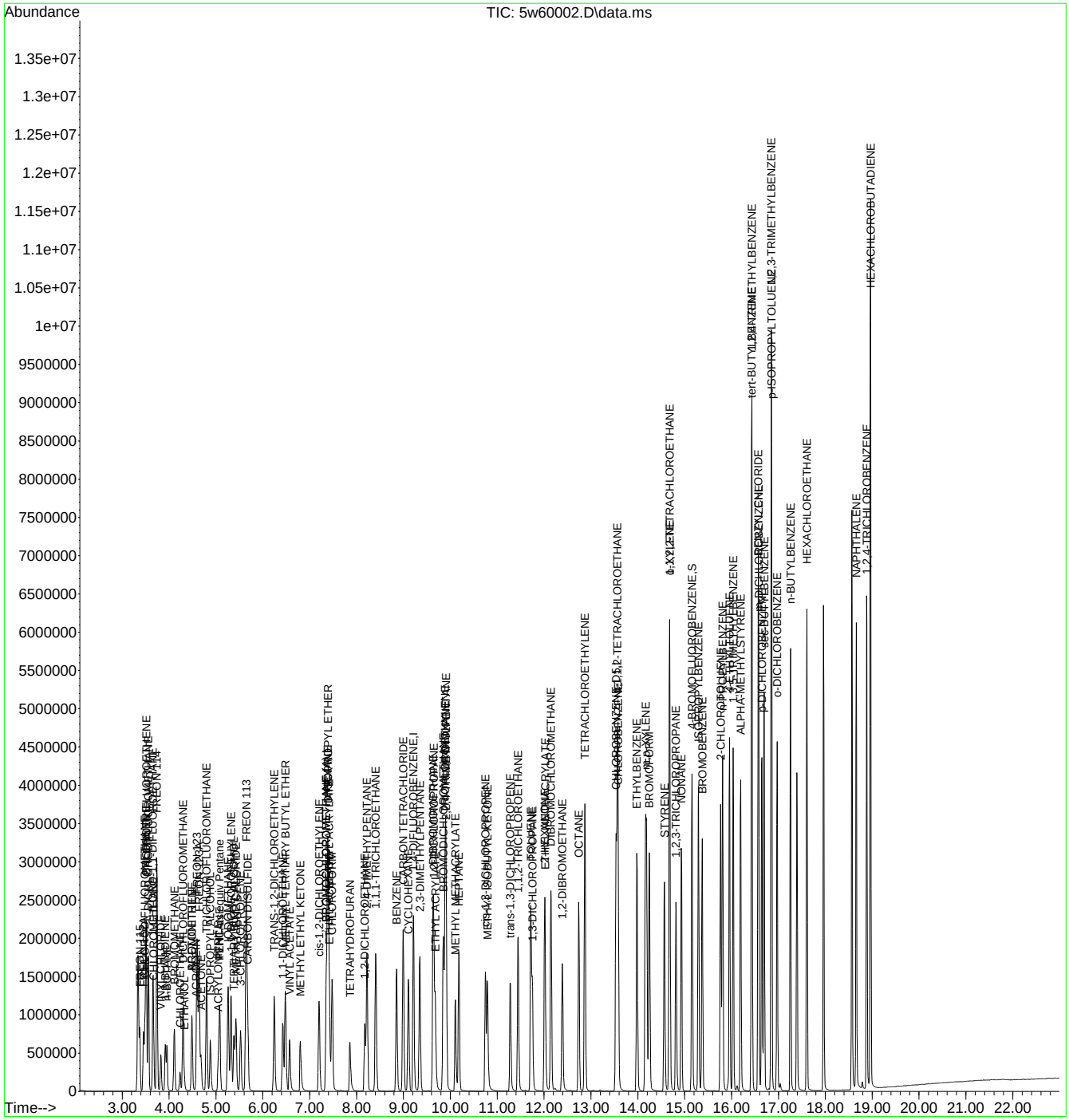
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	479179	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2114849	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1129270	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	479285	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1394712	9.88	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.80%			
Target Compounds						Qvalue
2) FREON 115	3.359	119	349972	10.6600	PPBV	100
3) FREON 152A	3.439	65	316320	8.9009	PPBV	96
4) CHLORODIFLUOROMETHANE	3.470	67	162018	10.8988	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.500	116	828169	11.1258	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.543	85	1534563	11.1904	PPBV	98
7) PROPYLENE	3.494	41	329492	8.9582	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	1195554	10.7651	PPBV	98
9) FREON 114	3.726	85	1510187	12.0467	PPBV	99
10) CHLOROMETHANE	3.659	52	144738	9.6107	PPBV	99
11) VINYL CHLORIDE	3.812	62	495530	10.6745	PPBV	99
12) 1,3-BUTADIENE	3.904	54	292494	10.4661	PPBV	98
13) n-BUTANE	3.941	43	458598	10.0417	PPBV	98
14) BROMOMETHANE	4.100	94	567948	11.5041	PPBV	99
15) CHLOROETHANE	4.216	64	222236	9.8129	PPBV	98
16) DICHLOROFLUOROMETHANE	4.283	67	1068372	10.8297	PPBV	99
17) ACETONITRILE	4.473	41	251312	9.6326	PPBV	99
18) ACROLEIN	4.565	56	155502	10.4886	PPBV	98
19) FREON 123	4.583	83	1272619	11.1509	PPBV	71
20) FREON 123A	4.626	117	764670	11.6659	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.785	101	1500156	12.8070	PPBV	100
22) ISOPROPYL ALCOHOL	4.864	45	862773	9.1819	PPBV	98
23) ACETONE	4.669	58	186096	9.9021	PPBV	94
24) PENTANE	5.066	42	428867	8.7850	PPBV	99
25) IODOMETHANE	5.250	142	1697179	11.6246	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.311	96	525383	10.2227	PPBV	93
27) CARBON DISULFIDE	5.666	76	1428932	10.6111	PPBV	98
28) ETHANOL	4.314	45	168540	10.7061	PPBV	99
29) BROMOETHENE	4.473	106	568162	11.6690	PPBV	100
30) ACRYLONITRILE	5.036	52	305406	9.6023	PPBV	99
31) METHYLENE CHLORIDE	5.415	84	455621	9.4761	PPBV	92
32) 3-CHLOROPROPENE	5.513	76	224082	9.6815	PPBV	87
33) FREON 113	5.635	151	976601	11.4203	PPBV	96
34) TRANS-1,2-DICHLOROETHY...	6.235	96	544122	10.0977	PPBV	92
35) TERTIARY BUTYL ALCOHOL	5.372	59	930895	9.6884	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1388096	10.2344	PPBV	97
37) TETRAHYDROFURAN	7.850	72	205030	11.0204	PPBV	90
38) HEXANE	7.379	57	739090	9.6611	PPBV	99
39) VINYL ACETATE	6.559	86	87525	11.3126	PPBV #	70
40) 1,1-DICHLOROETHANE	6.418	63	946262	9.5700	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	225201	12.1673	PPBV #	82
42) cis-1,2-DICHLOROETHYLENE	7.195	96	583002	9.9265	PPBV	94
43) DIISOPROPYL ETHER	7.385	59	234562	11.6609	PPBV	94
44) ETHYL ACETATE	7.415	61	171373	12.1171	PPBV #	1
45) METHYL ACRYLATE	7.403	55	931131	12.2897	PPBV	98
46) CHLOROFORM	7.471	83	1190185	11.1709	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.217	57	848788	9.8032	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.407	97	1227800	11.0486	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.988	117	1379991	11.4332	PPBV		100
50)	1,2-DICHLOROETHANE	8.168	62	792023	10.6983	PPBV		100
52)	BENZENE	8.847	78	1523228	10.7509	PPBV		99
53)	CYCLOHEXANE	9.104	84	604407	10.6779	PPBV		92
54)	2,3-DIMETHYLPENTANE	9.343	71	304244	10.6368	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	800597	11.0925	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	596490	9.0682	PPBV		99
57)	DIBROMOMETHANE	9.630	174	889311	11.0234	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1144267	11.1312	PPBV		99
59)	BROMODICHLOROMETHANE	9.844	83	1392832	11.1295	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.905	57	2373633	10.5865	PPBV		100
61)	1,4-DIOXANE	9.893	88	356621	11.0344	PPBV	#	75
62)	HEPTANE	10.181	43	763072	9.3600	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	518879	11.2369	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	478608	11.4499	PPBV		96
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1029199	10.2127	PPBV		95
66)	TOLUENE	11.716	92	1141793	10.7812	PPBV		99
67)	1,3-DICHLOROPROPANE	11.747	76	915403	10.6041	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	914117	9.6091	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.441	83	642885	11.1796	PPBV		99
71)	2-HEXANONE	12.010	58	687139	11.6329	PPBV		98
72)	ETHYL METHACRYLATE	12.022	69	924260	11.8470	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	965929	12.5393	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.144	129	1569979	11.8035	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1268536	12.2581	PPBV		99
76)	OCTANE	12.738	43	1078013	10.0496	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1040956	12.2912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1676579	11.8814	PPBV		99
79)	ETHYLBENZENE	13.980	91	2558019	11.8175	PPBV		100
80)	m,p-XYLENE	14.169	106	1994813	23.3851	PPBV		99
81)	o-XYLENE	14.677	106	961640	12.0392	PPBV		100
82)	STYRENE	14.567	104	1523708	12.2225	PPBV		99
83)	NONANE	14.928	43	1112505	10.2531	PPBV		98
84)	BROMOFORM	14.249	173	1725817	13.1538	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1686640	12.1424	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1146826	10.2683	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2846838	11.6398	PPBV		100
89)	BROMOBENZENE	15.375	77	1373208	10.7919	PPBV		97
90)	2-CHLOROTOLUENE	15.766	126	767010	11.3232	PPBV		99
91)	n-PROPYLBENZENE	15.809	120	793940	12.1083	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2873727	12.8454	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2364619	11.3690	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1214522	11.8520	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	529036	12.5282	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2518685	12.9767	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1900758	12.8109	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	2352253	13.1542	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1890803	11.8524	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	651887	12.1872	PPBV		98
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2595477	12.6449	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	801855	13.2251	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1781932	11.9726	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	733212	12.3476	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	1190740	11.6336	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1877270	13.5695	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1809449	13.1201	PPBV		100
108)	NAPHTHALENE	18.660	128	4030657	13.4094	PPBV		100
110)	TVHC as equiv Pentane	5.066	TIC	2846840	9.8225	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

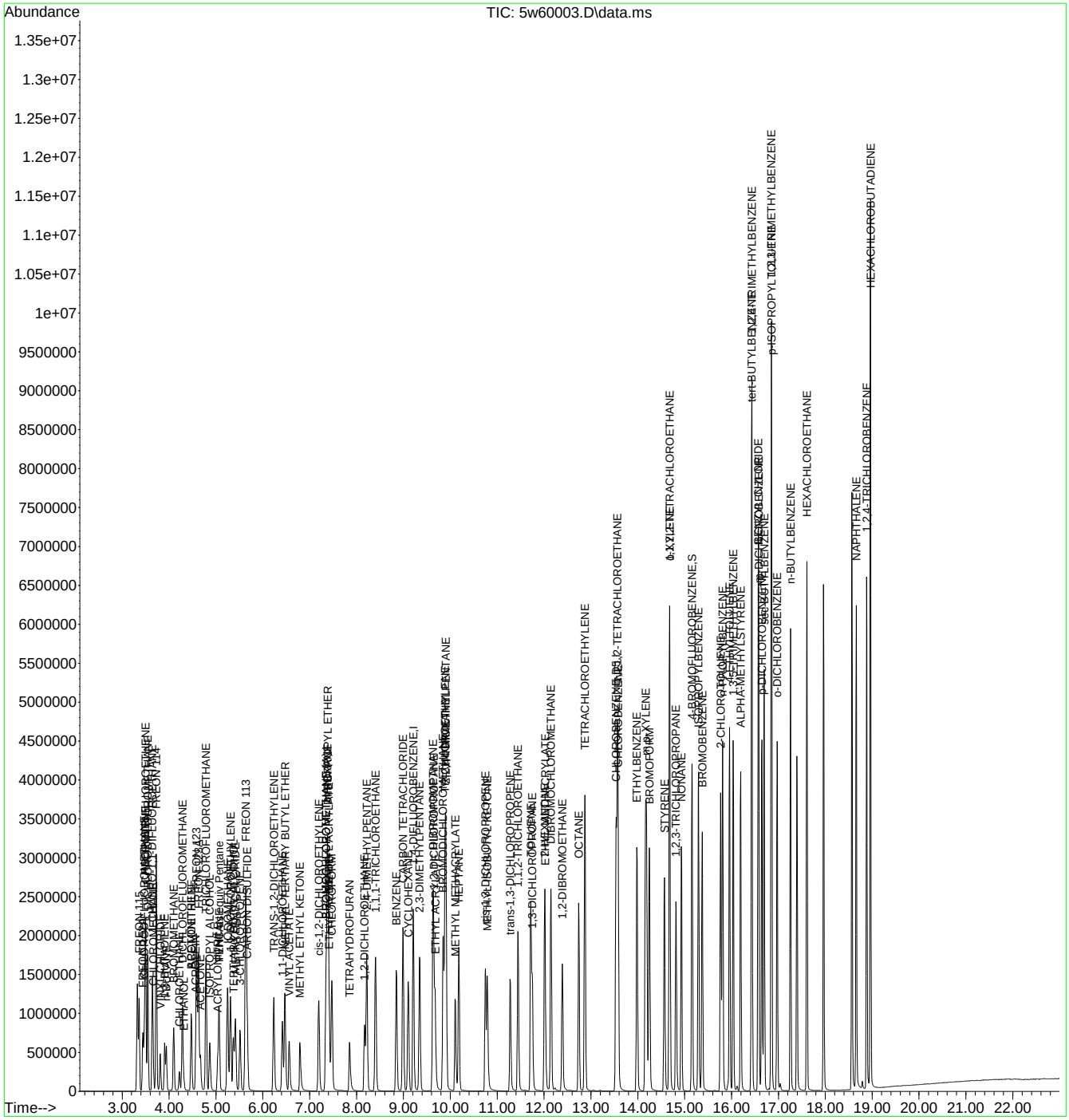
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	117537	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	576557	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	537853	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	117431	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	424524	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	166464	11.6748	PPBV		98
3) FREON 152A	1.605	65	78132	10.6216	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	34082	10.6722	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	177991	11.5833	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	301836m	10.7228	PPBV		
7) PROPYLENE	1.627	41	94847	9.9623	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	251622	10.0470	PPBV		99
9) FREON 114	1.717	85	293840	10.1272	PPBV		98
10) CHLOROMETHANE	1.689	52	33784	8.3689	PPBV		98
11) VINYL CHLORIDE	1.746	62	120764m	8.4483	PPBV		
12) 1,3-BUTADIENE	1.785	54	95122	8.4248	PPBV		99
13) N-BUTANE	1.801	43	167061	8.7444	PPBV		99
14) BROMOMETHANE	1.859	94	106278	9.5883	PPBV		100
15) CHLOROETHANE	1.907	64	66166	8.5278	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	249903	9.3010	PPBV		100
17) ACETONITRILE	1.997	41	94569	7.0834	PPBV		100
18) ACROLEIN	2.036	56	54010	8.5161	PPBV		99
19) FREON 123	2.049	83	274608	10.1439	PPBV		99
20) FREON 123A	2.068	117	172350	10.7466	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	314396	10.2837	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	232486	8.9738	PPBV		96
23) ACETONE	2.074	58	62370	8.8053	PPBV		96
24) PENTANE	2.242	42	120801	8.6097	PPBV		97
25) IODOMETHANE	2.303	142	308750	10.9767	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	116988	10.0387	PPBV		91
27) CARBON DISULFIDE	2.467	76	301097	9.1059	PPBV		98
28) ETHANOL	1.933	45	60214	8.7304	PPBV		99
29) BROMOETHENE	2.007	106	110839	9.9603	PPBV		100
30) ACRYLONITRILE	2.213	52	91814	9.2178	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	103212	9.0347	PPBV		89
32) 3-CHLOROPROPENE	2.409	76	54741	8.7819	PPBV		93
33) FREON 113	2.463	151	196110	11.1721	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	113209	8.8294	PPBV		92
35) TERTIARY BUTYL ALCOHOL	2.341	59	232200	7.1738	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.795	73	349229	9.5751	PPBV		99
37) TETRAHYDROFURAN	3.470	72	56702	9.5859	PPBV		93
38) HEXANE	3.242	57	233347	9.4984	PPBV		99
39) VINYL ACETATE	2.830	86	34231	9.7646	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	234708	9.4691	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	64142	9.5684	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	134876	10.1412	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	65603	9.4186	PPBV		95
44) ETHYL ACETATE	3.251	61	45389	9.6391	PPBV		99
45) METHYL ACRYLATE	3.238	55	284596	9.5736	PPBV	#	100
46) CHLOROFORM	3.264	83	265353	10.3437	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	270843	9.8502	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279613	10.3419	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	300115	10.7149	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	187132	9.3837	PPBV		98
51)	BENZENE	4.129	78	385720	9.8016	PPBV		98
53)	CYCLOHEXANE	4.335	84	174716	10.3579	PPBV		97
54)	2,3-DIMETHYLPENTANE	4.586	71	88179	10.4827	PPBV		97
55)	TRICHLOROETHENE	5.016	95	179264	9.9695	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	156598	9.8534	PPBV		98
57)	DIBROMOMETHANE	4.746	174	193825	12.6496	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	350540	9.8543	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	297958	10.2561	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	729930	9.3764	PPBV		100
61)	1,4-DIOXANE	5.029	88	88045	10.3442	PPBV		96
62)	HEPTANE	5.418	43	246005	9.5707	PPBV		98
63)	METHYL METHACRYLATE	5.319	69	143934	9.9651	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.042	58	136749	8.8717	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	247041	10.1375	PPBV		96
66)	TOLUENE	7.132	91	482354	10.5364	PPBV		99
67)	1,3-DICHLOROPROPANE	7.190	76	245416	10.6929	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	214544	9.7443	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.766	83	140276	10.7531	PPBV		97
70)	2-HEXANONE	7.695	58	183274	8.5213	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	246125	10.2154	PPBV		95
72)	TETRACHLOROETHENE	8.849	164	215940	12.9316	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.659	129	310840	11.7252	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	266221	11.2805	PPBV	#	99
75)	OCTANE	8.997	43	341515	9.9187	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	213785	11.0766	PPBV		98
78)	CHLOROBENZENE	10.045	112	396327	10.7864	PPBV		99
79)	ETHYLBENZENE	10.926	91	655869	10.8932	PPBV		100
80)	M,P-XYLENE	11.351	91	1023644	20.9873	PPBV		97
81)	O-XYLENE	12.280	91	519895	10.9823	PPBV		99
82)	STYRENE	12.068	104	395063	11.1318	PPBV		100
83)	NONANE	13.399	43	360332	9.7785	PPBV		98
84)	BROMOFORM	11.161	173	350108	15.4204	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	367207	10.8288	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.576	75	288503	10.8553	PPBV		100
88)	ISOPROPYLBENZENE	13.791	120	195144	10.8441	PPBV		98
89)	BROMOBENZENE	13.656	77	359353	10.3975	PPBV		87
90)	2-CHLOROTOLUENE	14.788	126	178666	10.6452	PPBV		100
91)	N-PROPYLBENZENE	15.129	120	203706	10.6654	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	763752	10.8053	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.846	105	637092	10.8300	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.170	118	310988	10.6596	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	146662	10.2257	PPBV		90
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	648383	11.1180	PPBV		100
97)	BENZYL CHLORIDE	16.598	91	467740	9.9277	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	423012	10.5575	PPBV		97
99)	P-DICHLOROBENZENE	16.662	146	425526	10.7779	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	395575	10.6431	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	177791	10.4101	PPBV		91
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	621853	10.6368	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.013	134	195199	10.2831	PPBV		88
104)	N-BUTYLBENZENE	17.379	134	192735	10.6499	PPBV		93
105)	HEXACHLOROETHANE	17.559	117	257445	11.5470	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.630	225	500479	18.9339	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.315	180	517111	16.3117	PPBV		97
108)	NAPHTHALENE	18.363	128	993777	13.9741	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	579819	8.7479	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

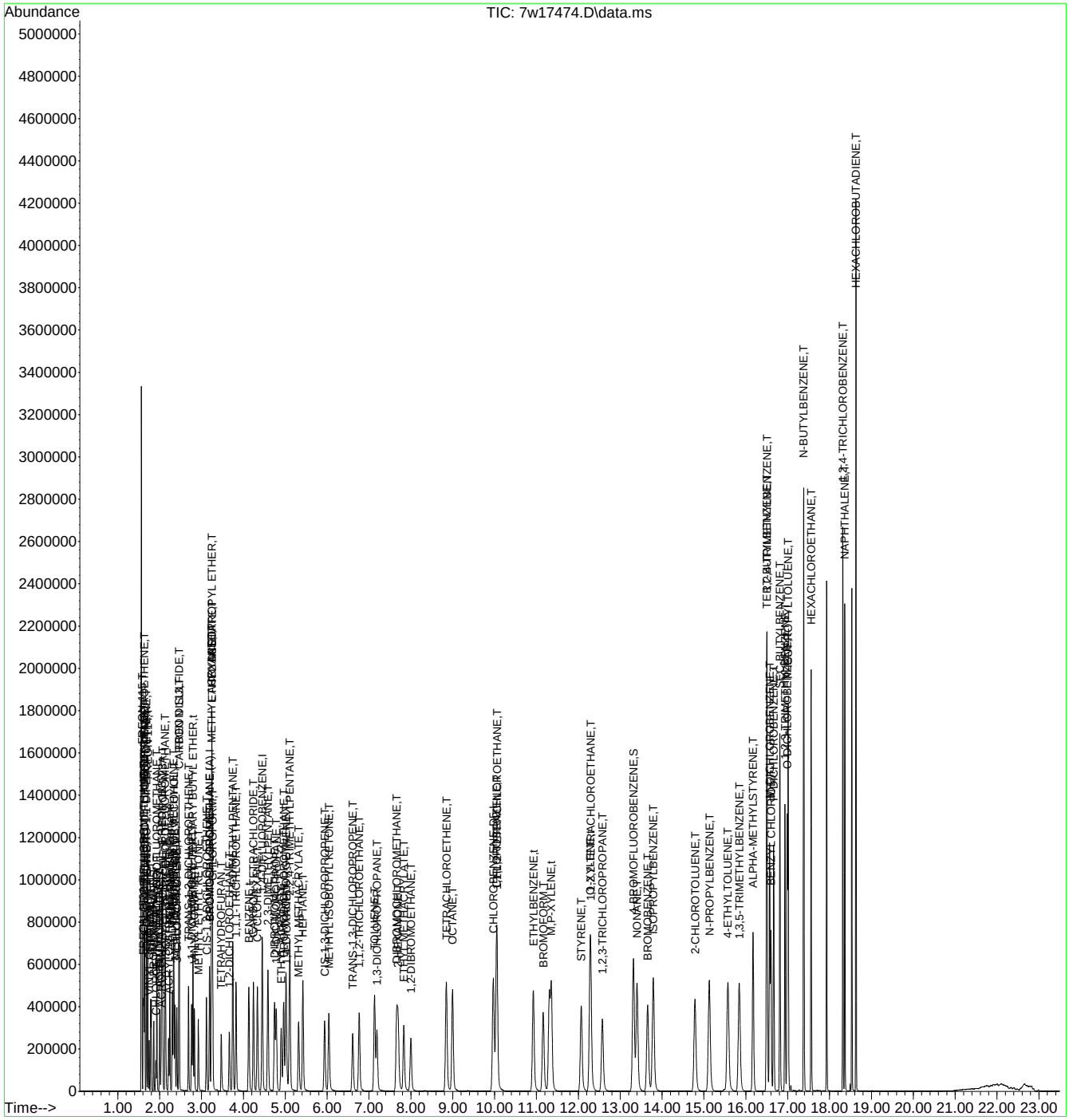
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

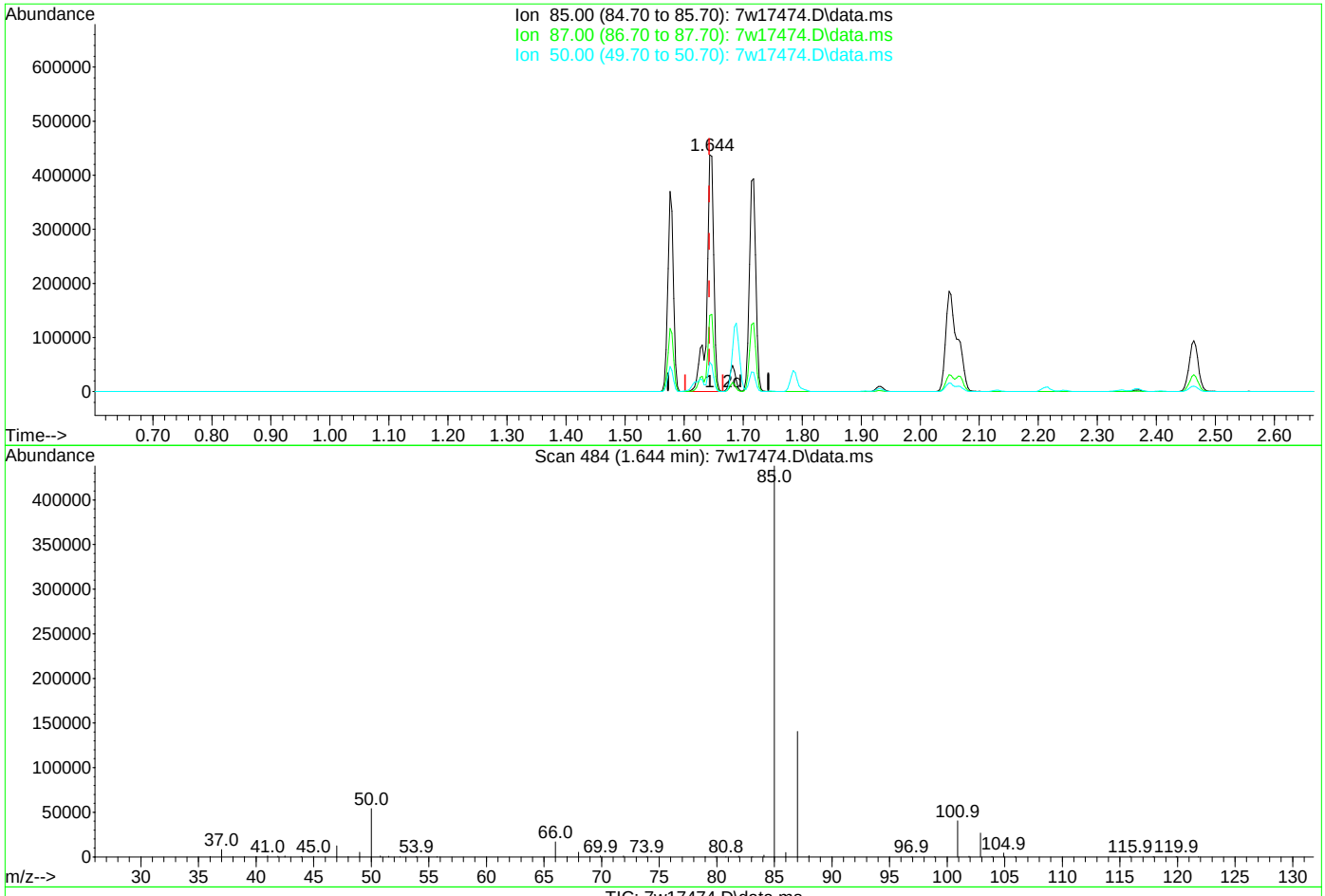
Sample Number: V7W613-BS
Lab FileID: 7W17474.D
Injection Time: 09/26/25 11:54
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.85PPBV

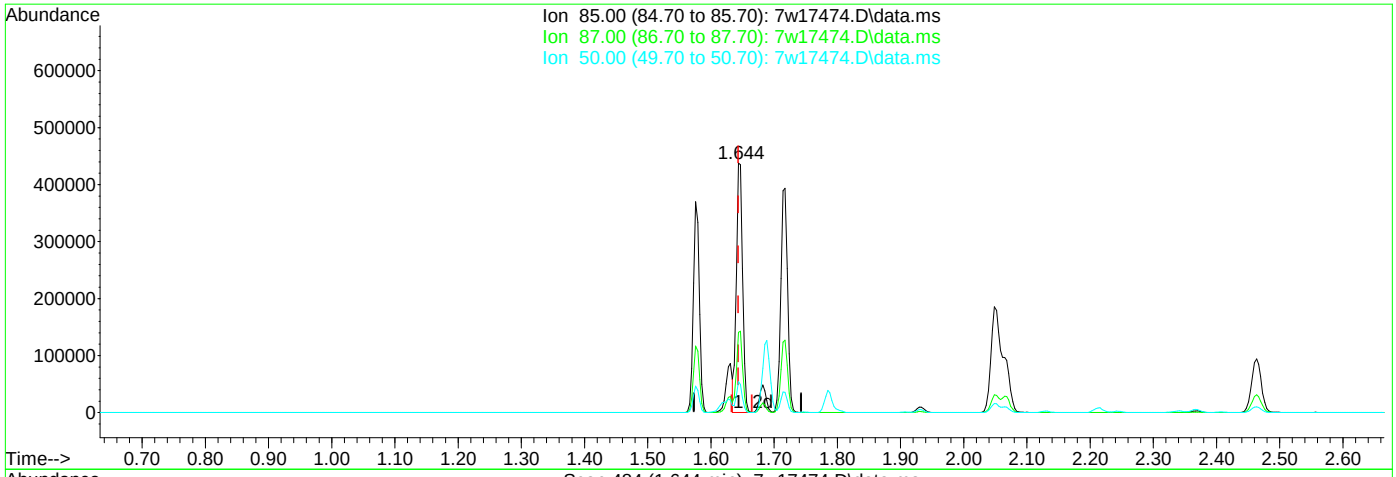
response 361845

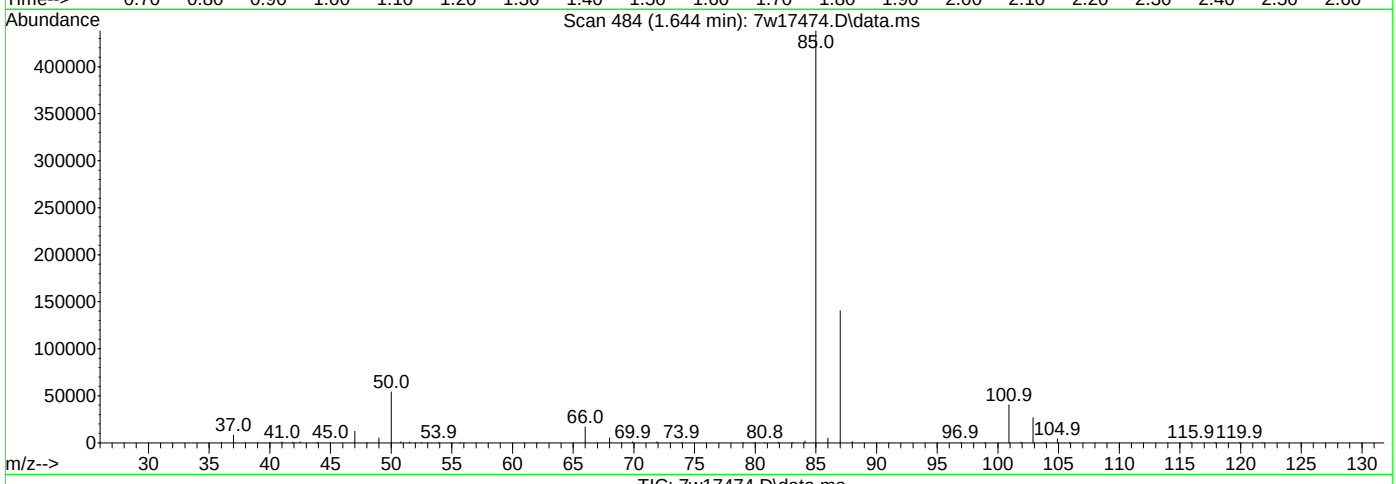
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.38
50.00	19.30	17.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.72PPBV m

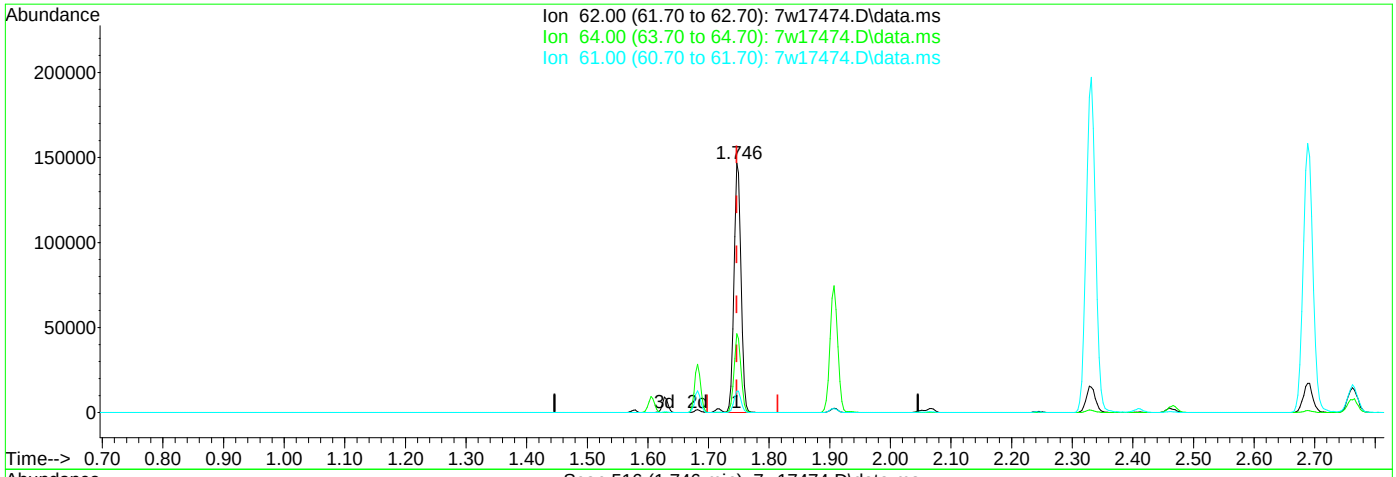
response 301836

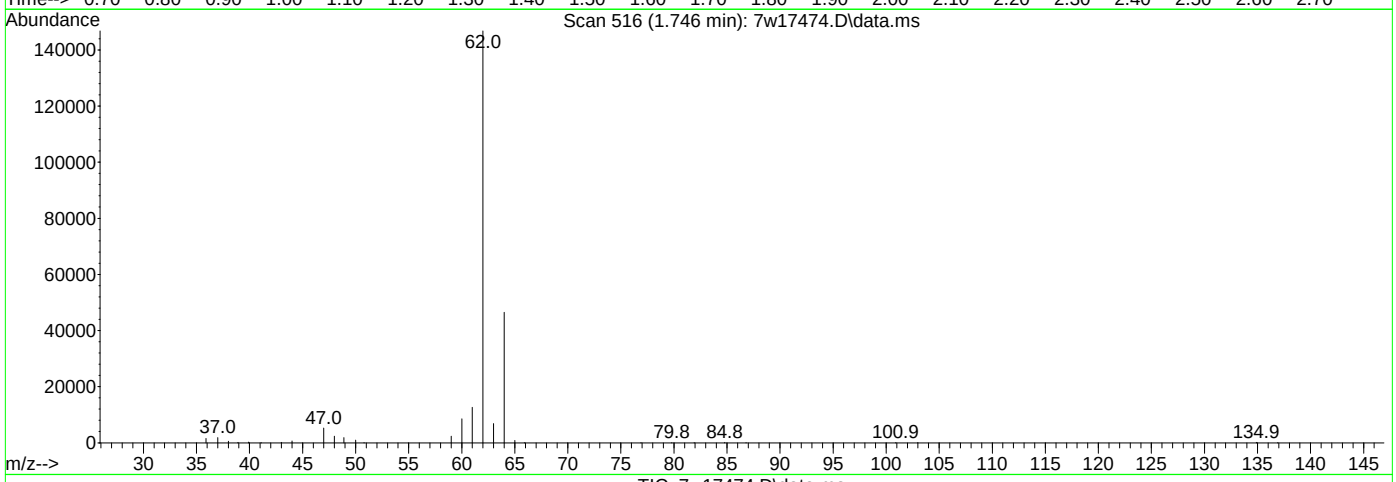
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.81
50.00	19.30	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.57PPBV

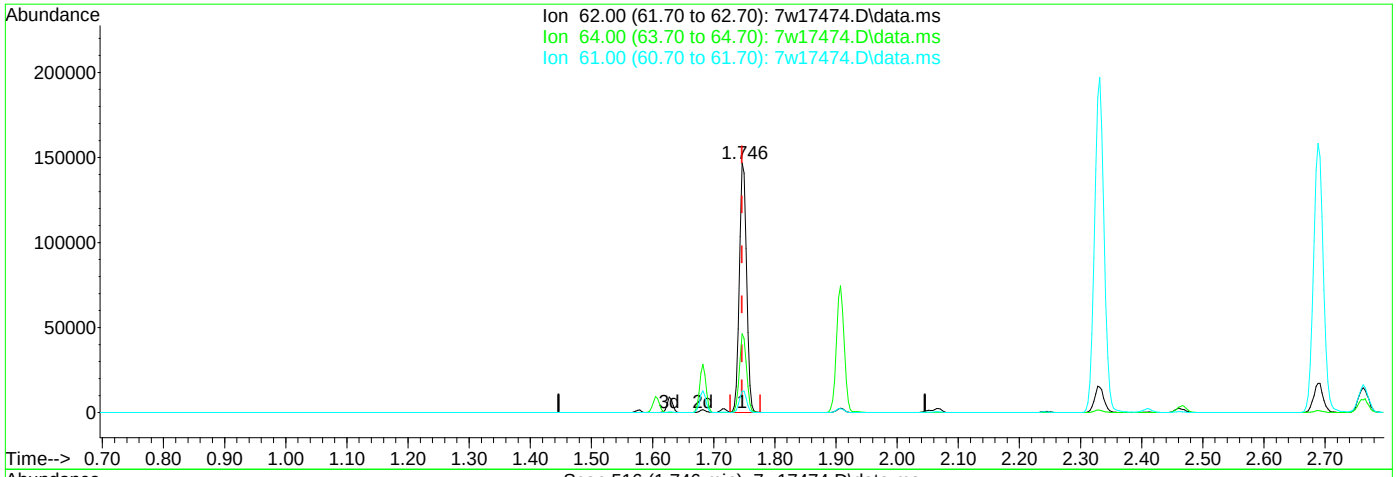
response 122511

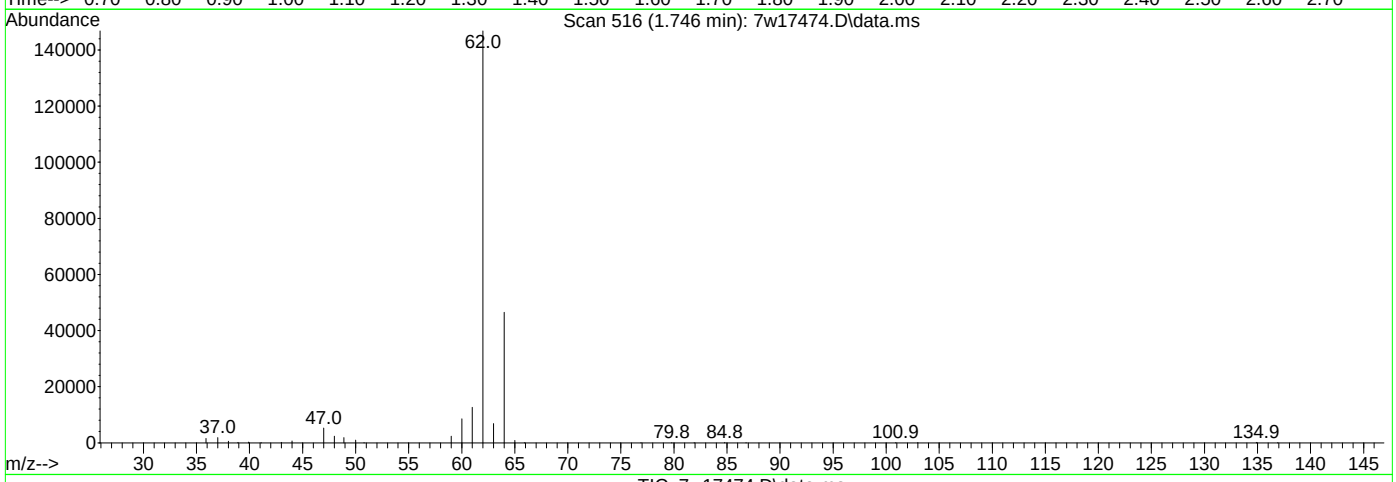
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	30.89
61.00	8.10	8.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.45PPBV m

response 120764

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.33
61.00	8.10	9.03
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.194	128	119187	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	585415	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	537645	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.194	128	119187	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	430611	9.95	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	161488	11.1690	PPBV		98
3) FREON 152A	1.605	65	75759	10.1564	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	33425	10.3216	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.628	116	174440	11.1950	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	291674m	10.2183	PPBV		
7) PROPYLENE	1.628	41	92093	9.5391	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.683	65	249388	9.8200	PPBV		98
9) FREON 114	1.715	85	289184	9.8288	PPBV		99
10) CHLOROMETHANE	1.686	52	33293	8.1331	PPBV		96
11) VINYL CHLORIDE	1.747	62	119109m	8.2172	PPBV		
12) 1,3-BUTADIENE	1.785	54	92631	8.0906	PPBV		97
13) N-BUTANE	1.801	43	164144	8.4728	PPBV		99
14) BROMOMETHANE	1.859	94	104635	9.3094	PPBV		100
15) CHLOROETHANE	1.908	64	65277	8.2967	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.930	67	246489	9.0469	PPBV		100
17) ACETONITRILE	1.998	41	92543	6.8357	PPBV		99
18) ACROLEIN	2.036	56	52535	8.1689	PPBV		96
19) FREON 123	2.049	83	272708	9.9342	PPBV		99
20) FREON 123A	2.065	117	170374	10.4763	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	311447	10.0462	PPBV		100
22) ISOPROPYL ALCOHOL	2.146	45	230027	8.7560	PPBV		97
23) ACETONE	2.075	58	61137	8.5117	PPBV		92
24) PENTANE	2.242	42	118430	8.3239	PPBV		97
25) IODOMETHANE	2.303	142	303085	10.6261	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	115657	9.7871	PPBV		90
27) CARBON DISULFIDE	2.467	76	301432m	8.9898	PPBV		
28) ETHANOL	1.933	45	59051	8.4432	PPBV		99
29) BROMOETHENE	2.007	106	109124	9.6704	PPBV		100
30) ACRYLONITRILE	2.213	52	91360	9.0453	PPBV		97
31) METHYLENE CHLORIDE	2.367	84	102065	8.8106	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	54180	8.5716	PPBV		94
33) FREON 113	2.464	151	195458	10.9808	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	111522	8.5775	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.342	59	233489	7.1138	PPBV		92
36) METHYL TERTIARY BUTYL ...	2.795	73	345519	9.3422	PPBV		99
37) TETRAHYDROFURAN	3.473	72	55023	9.1733	PPBV		95
38) HEXANE	3.242	57	229499	9.2124	PPBV		98
39) VINYL ACETATE	2.830	86	34282	9.6437	PPBV		86
40) 1,1-DICHLOROETHANE	2.763	63	229340	9.1245	PPBV		99
41) METHYL ETHYL KETONE	2.924	72	63545	9.3481	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.117	96	132692	9.8389	PPBV		95
43) DIISOPROPYL ETHER	3.248	59	63868	9.0426	PPBV		99
44) ETHYL ACETATE	3.248	61	45705	9.5719	PPBV		94
45) METHYL ACRYLATE	3.239	55	278453	9.2373	PPBV	#	100
46) CHLOROFORM	3.264	83	261849	10.0658	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.747	57	269368	9.6609	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	276376	10.0807	PPBV		97
49) CARBON TETRACHLORIDE	4.242	117	298654	10.5152	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	186432	9.2192	PPBV		98
51)	BENZENE	4.129	78	383912	9.6206	PPBV		97
53)	CYCLOHEXANE	4.335	84	173211	10.1133	PPBV		96
54)	2,3-DIMETHYLPENTANE	4.586	71	88496	10.3612	PPBV		94
55)	TRICHLOROETHENE	5.020	95	177169	9.7039	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	154800	9.5929	PPBV		99
57)	DIBROMOMETHANE	4.747	174	192245	12.3567	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	347251	9.6141	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	296513	10.0519	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.107	57	724228	9.1624	PPBV		100
61)	1,4-DIOXANE	5.026	88	86594	10.0198	PPBV		98
62)	HEPTANE	5.422	43	242237	9.2815	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	142858	9.7409	PPBV		93
64)	METHYL ISOBUTYL KETONE	6.039	58	138357	8.8402	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.940	75	245439	9.9193	PPBV		96
66)	TOLUENE	7.132	91	479641	10.3186	PPBV		99
67)	1,3-DICHLOROPROPANE	7.190	76	243826	10.4629	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	212620	9.5108	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.769	83	139676	10.5451	PPBV		99
70)	2-HEXANONE	7.695	58	183154	8.3868	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	244235	9.9836	PPBV		95
72)	TETRACHLOROETHENE	8.846	164	214993	12.6801	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	308974	11.4785	PPBV		99
74)	1,2-DIBROMOETHANE	8.001	107	264374	11.0327	PPBV	#	99
75)	OCTANE	8.997	43	340227	9.7318	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	213802	11.0818	PPBV		98
78)	CHLOROBENZENE	10.046	112	392719	10.6923	PPBV		99
79)	ETHYLBENZENE	10.923	91	651683	10.8278	PPBV		100
80)	M,P-XYLENE	11.351	91	1010310	20.7219	PPBV		100
81)	O-XYLENE	12.280	91	515533	10.8943	PPBV		99
82)	STYRENE	12.068	104	395209	11.1402	PPBV		100
83)	NONANE	13.402	43	357848	9.7149	PPBV		98
84)	BROMOFORM	11.158	173	342855	15.1068	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	361121	10.6535	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.576	75	285430	10.7439	PPBV	#	100
88)	ISOPROPYLBENZENE	13.788	120	191225	10.6304	PPBV		99
89)	BROMOBENZENE	13.653	77	356600	10.3218	PPBV		88
90)	2-CHLOROTOLUENE	14.785	126	177031	10.5518	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	202037	10.5821	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	756559	10.7077	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.843	105	633103	10.7664	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.171	118	305574	10.4780	PPBV		99
95)	TERT-BUTYLBENZENE	16.499	134	146423	10.2130	PPBV		91
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	646508	11.0901	PPBV		100
97)	BENZYL CHLORIDE	16.602	91	458275	9.7306	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	418818	10.4569	PPBV		97
99)	P-DICHLOROBENZENE	16.663	146	428379	10.8544	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	393831	10.6003	PPBV		97
101)	SEC-BUTYLBENZENE	16.814	134	177863	10.4183	PPBV		92
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	620374	10.6156	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.010	134	193374	10.1909	PPBV		89
104)	N-BUTYLBENZENE	17.380	134	191374	10.5788	PPBV		94
105)	HEXACHLOROETHANE	17.560	117	252934	11.3491	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.630	225	499473	18.9032	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.315	180	516000	16.2830	PPBV		97
108)	NAPHTHALENE	18.363	128	991089	13.9417	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	565634	8.4081	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

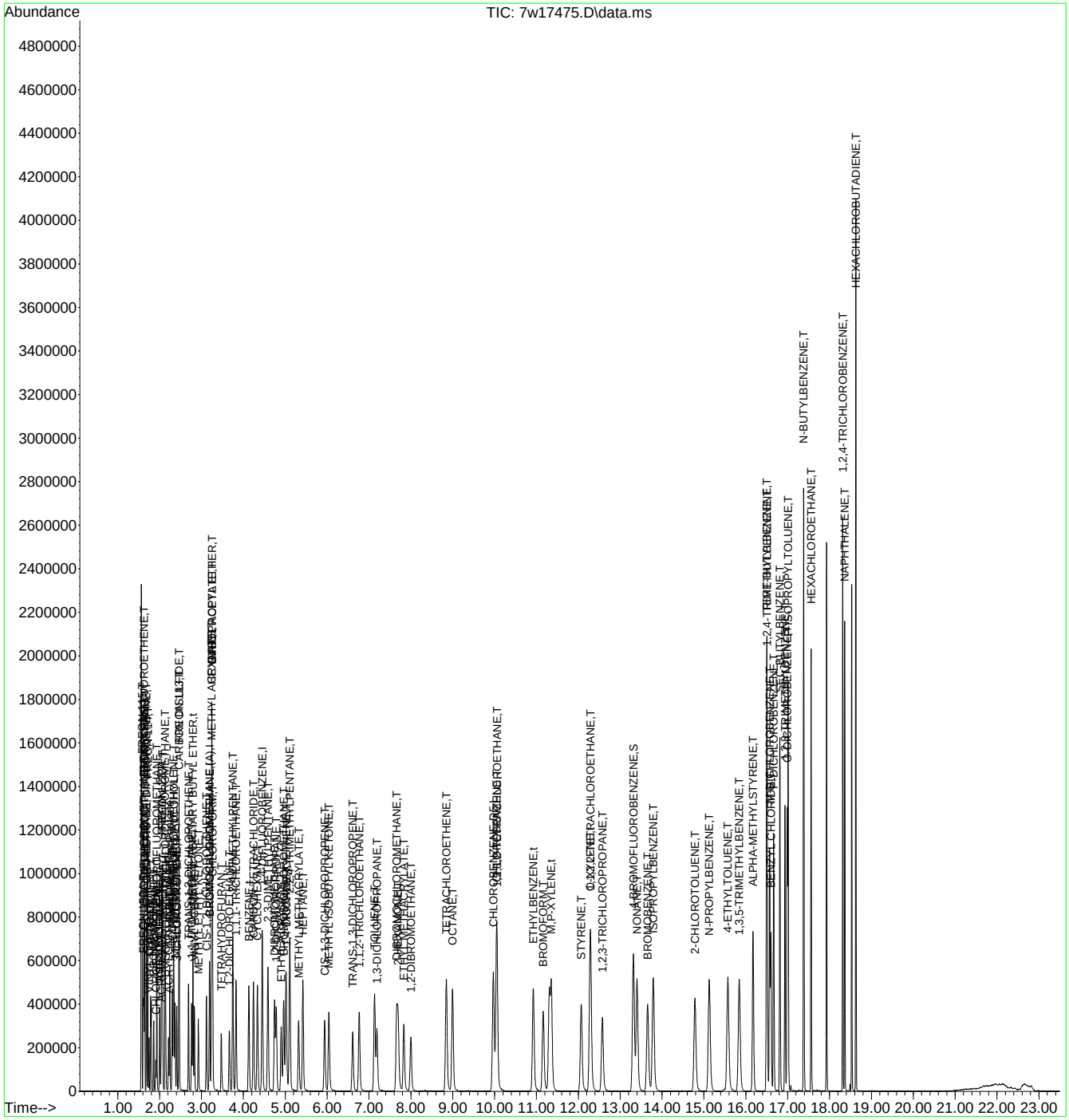
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

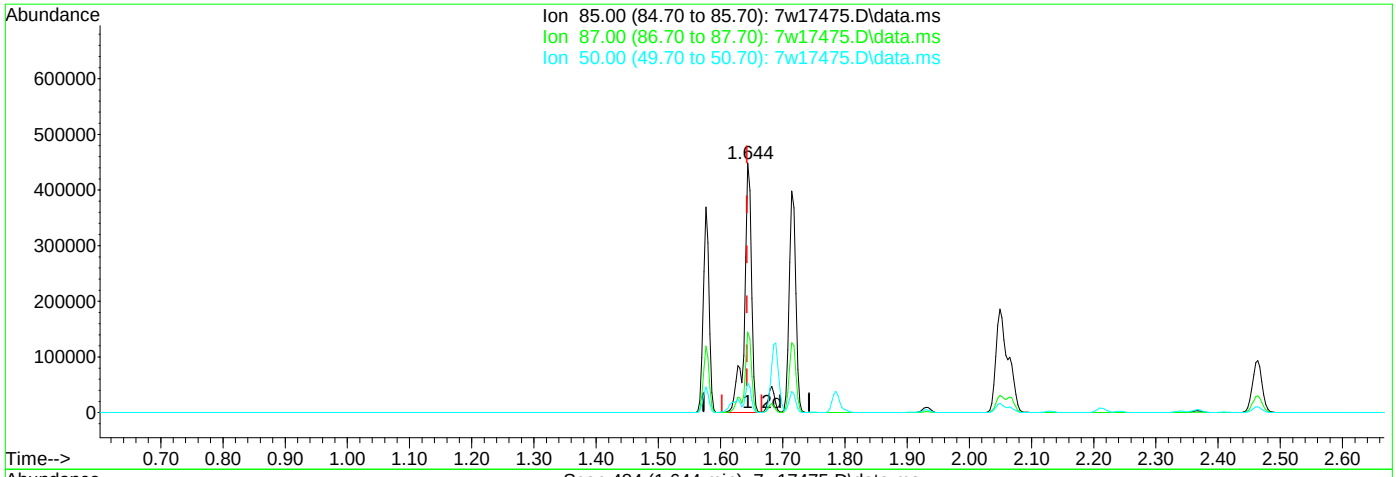
Sample Number: V7W613-BSD
Lab FileID: 7W17475.D
Injection Time: 09/26/25 12:32
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

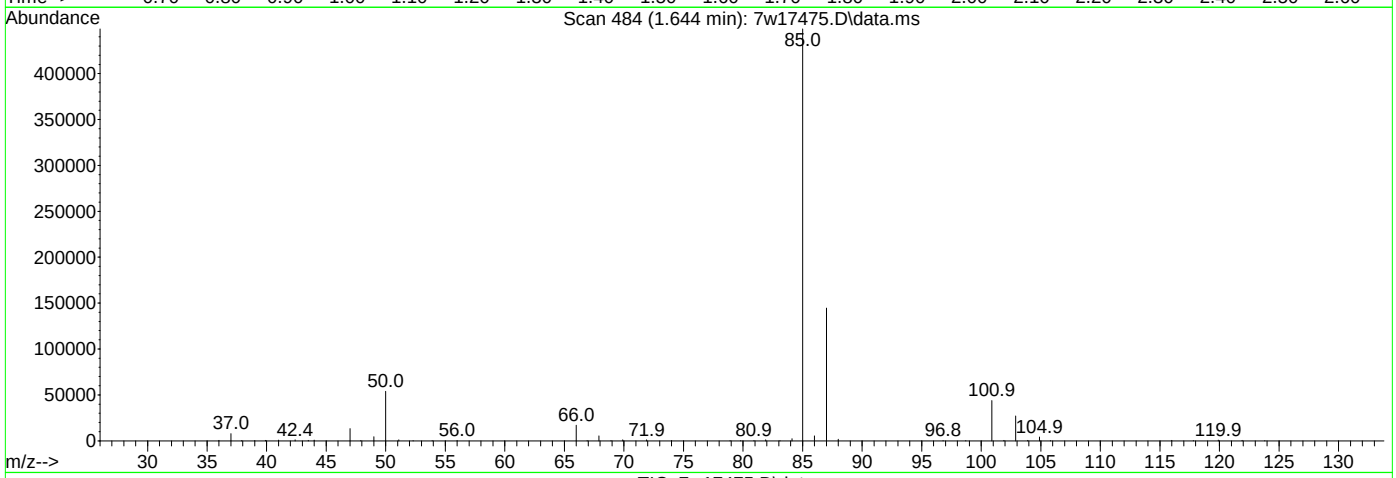
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak
Carbon disulfide	75-15-0		2.47	Missed peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.35PPBV

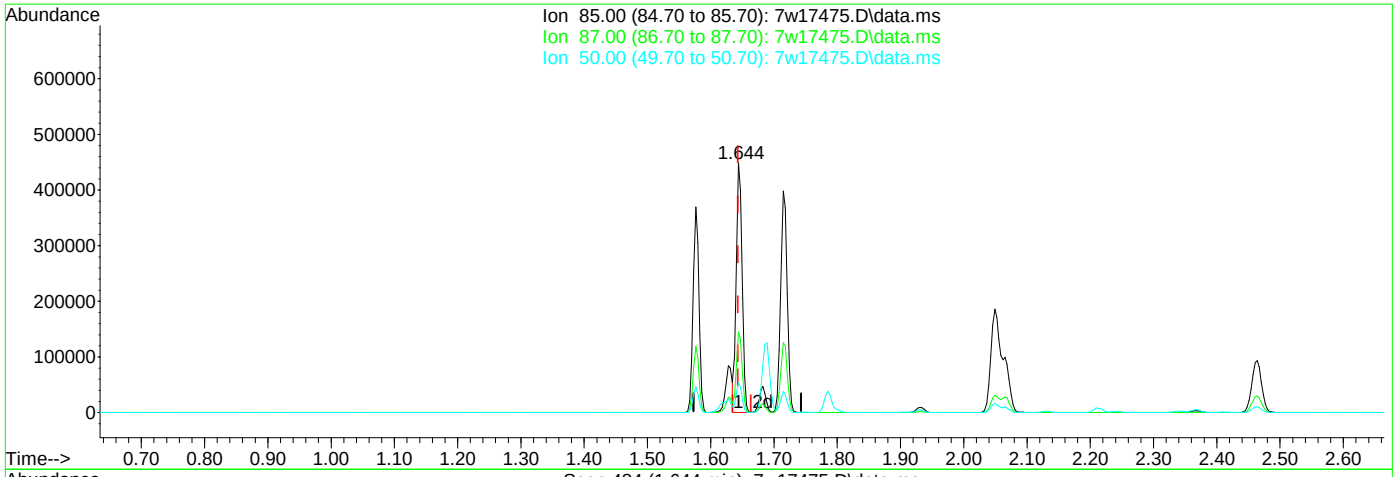
response 352449

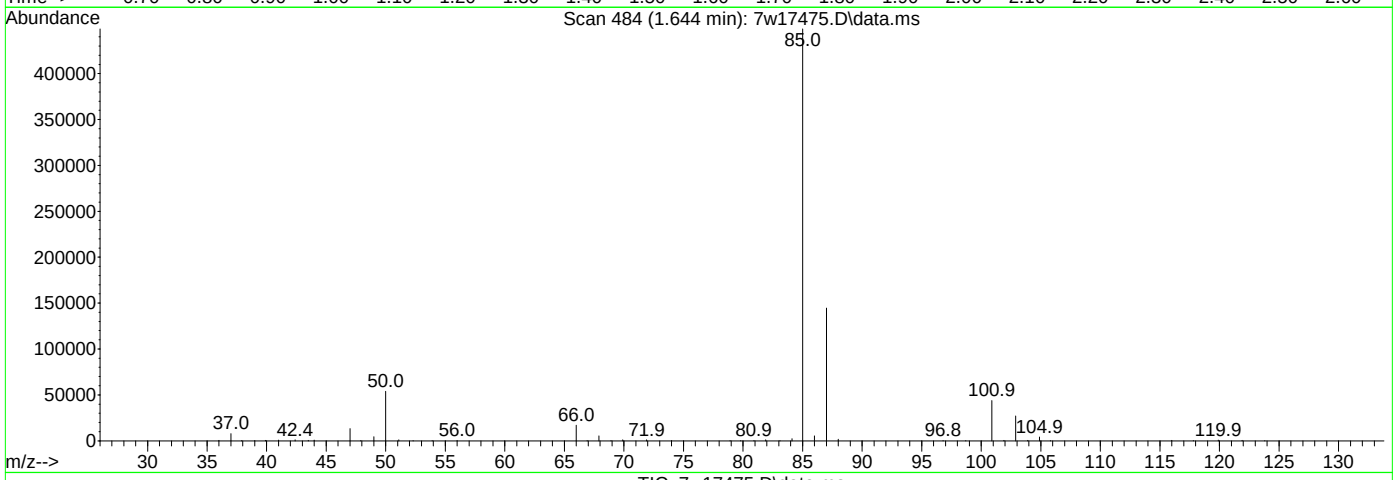
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.29
50.00	19.30	17.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.22PPBV m

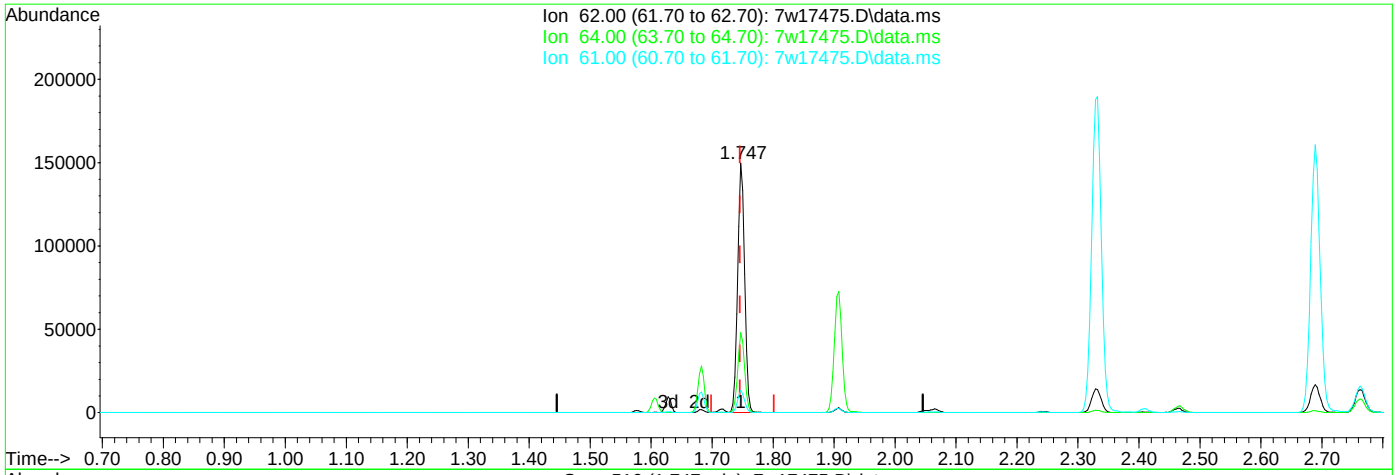
response 291674

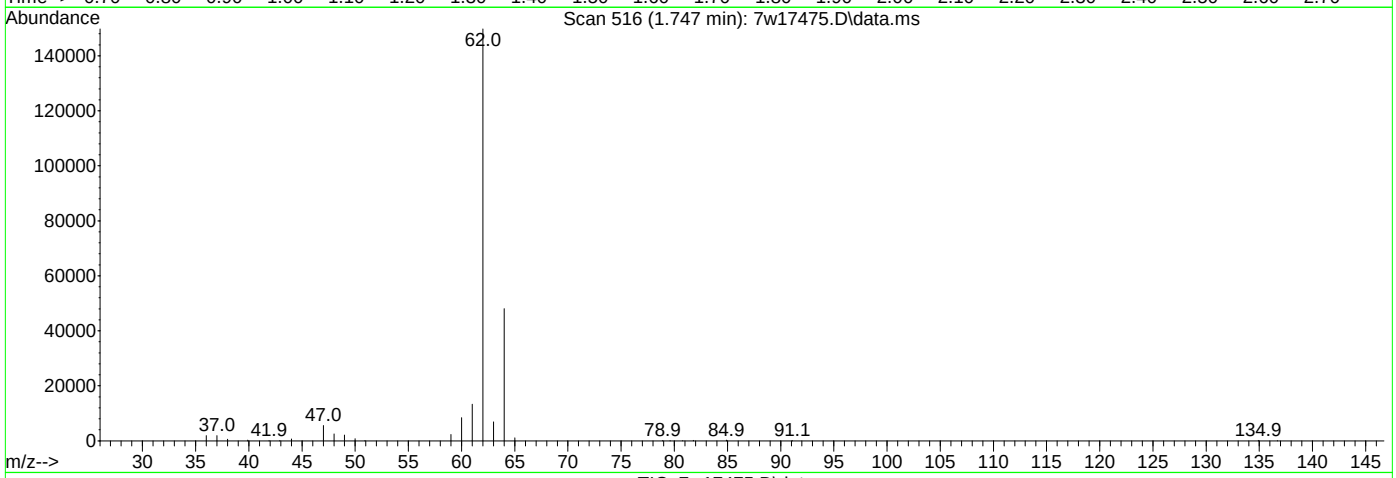
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.02
50.00	19.30	20.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.33PPBV

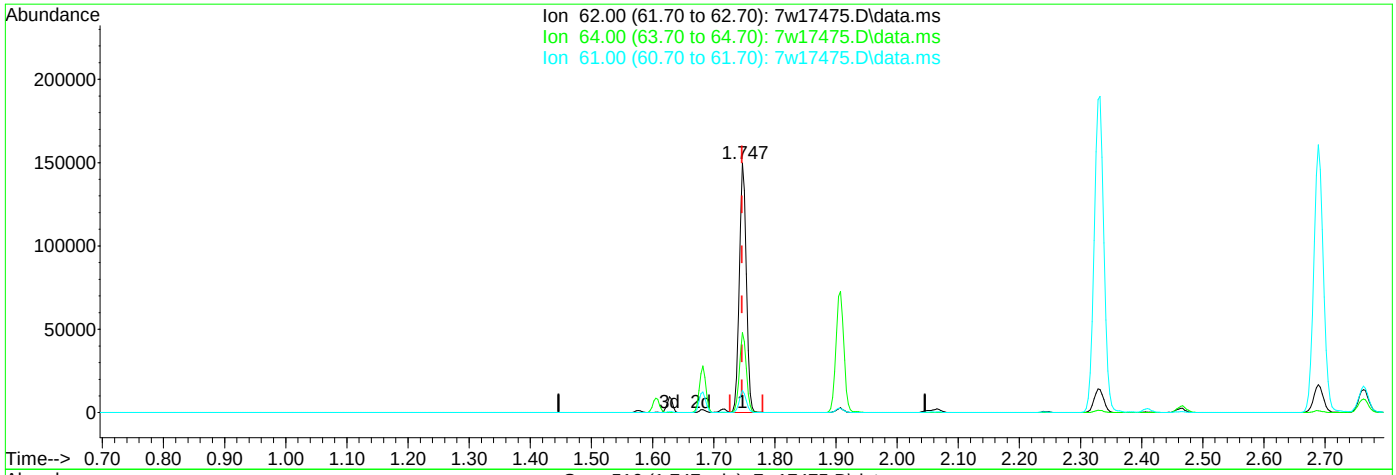
response 120814

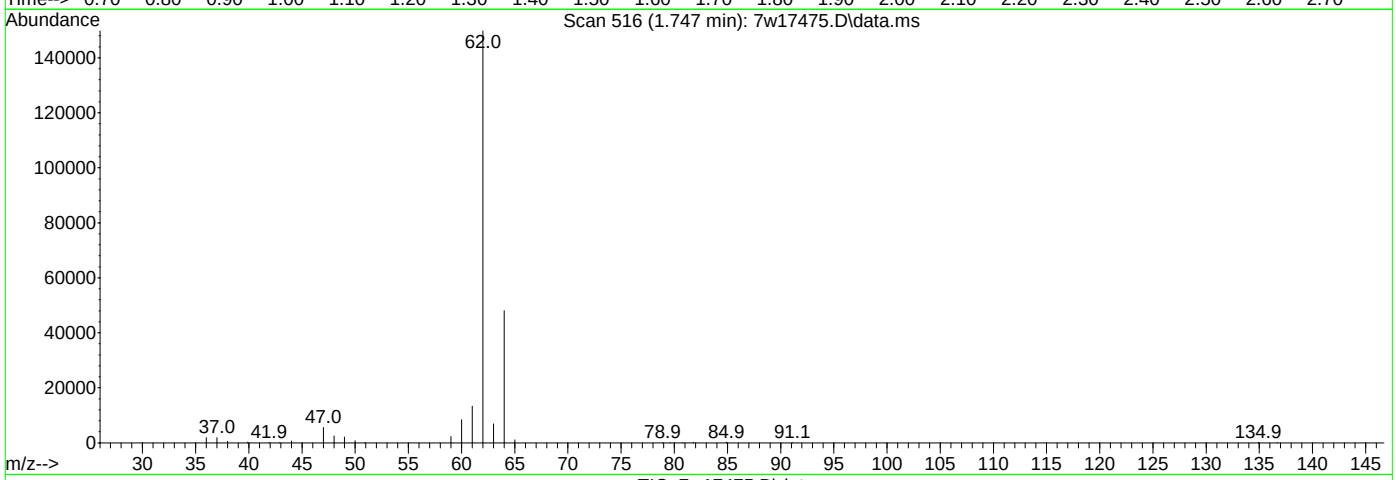
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.28
61.00	8.10	8.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.22PPBV m

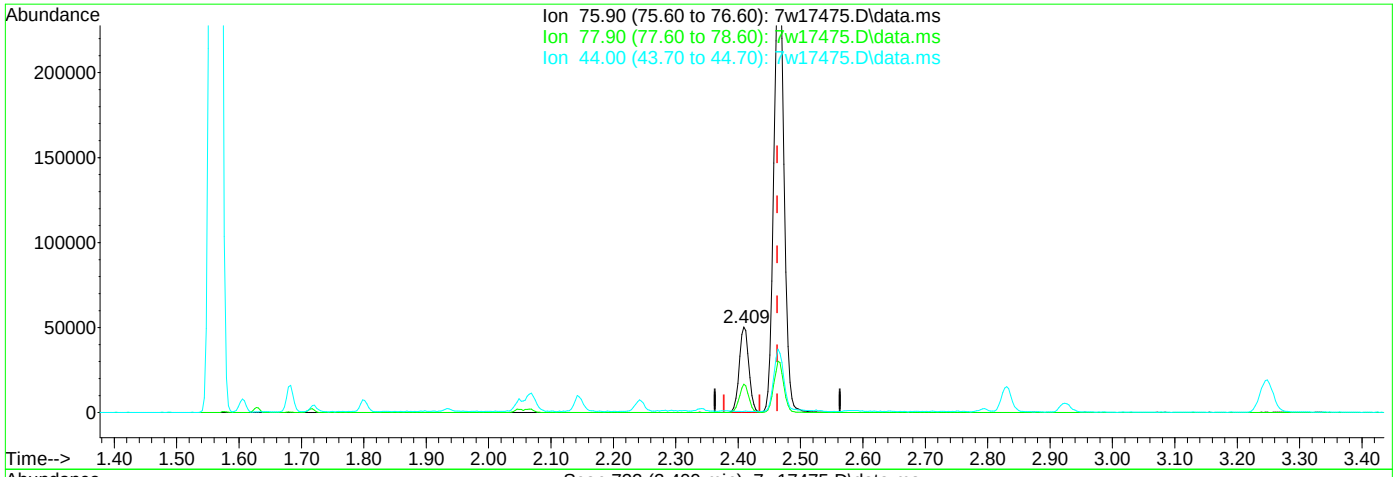
response 119109

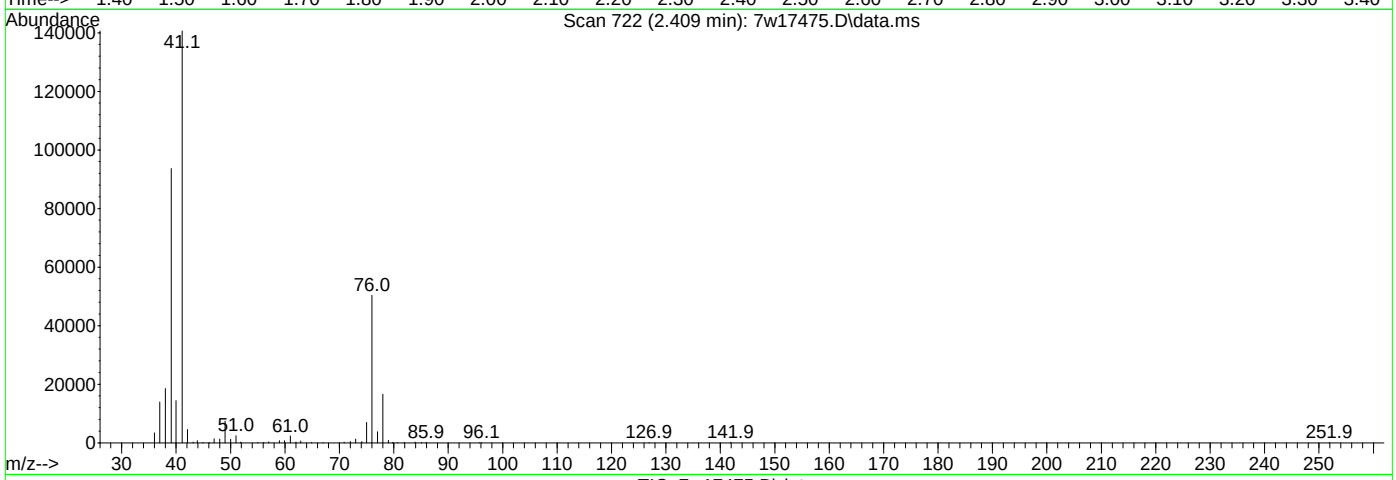
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.73
61.00	8.10	8.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.409min (-0.054) 1.62PPBV

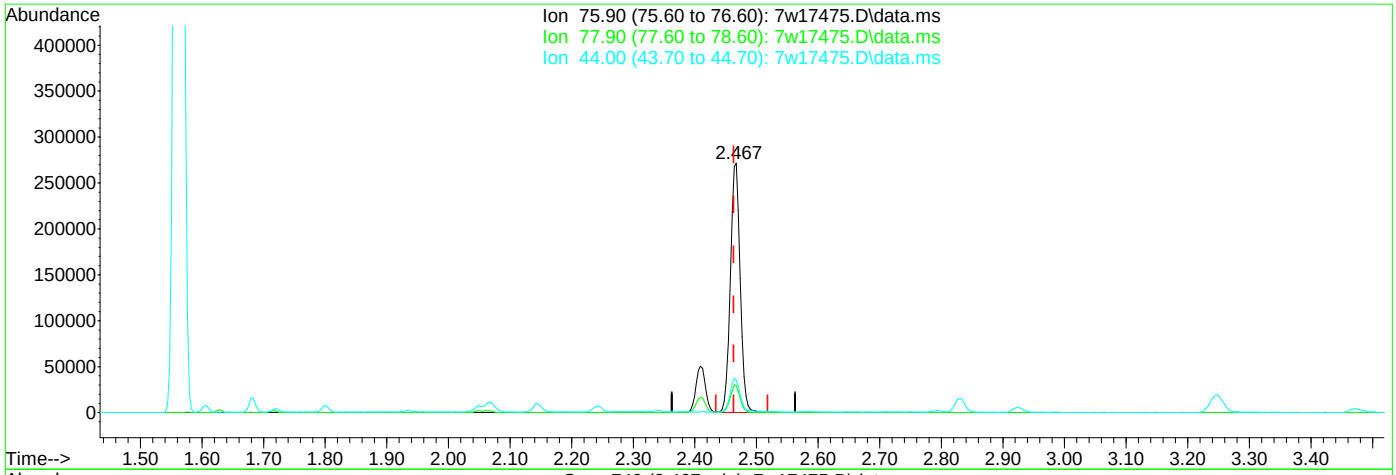
response 54178

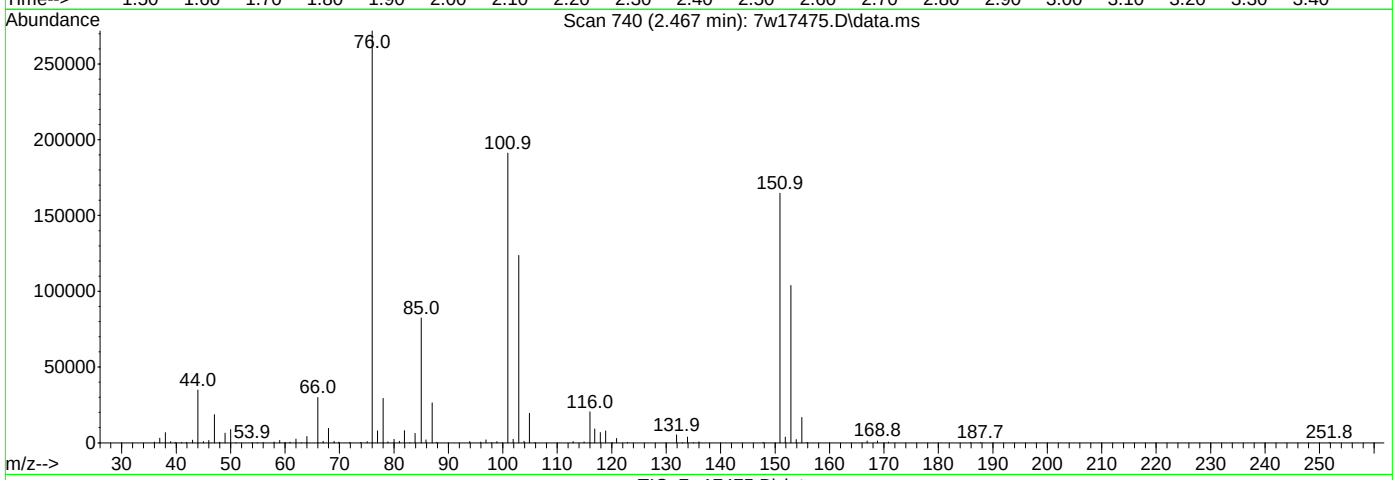
Ion	Exp%	Act%
75.90	100	100
77.90	11.00	32.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.467min (+0.004) 8.99PPBV m

response 301432

Ion	Exp%	Act%
75.90	100	100
77.90	11.00	5.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	130379	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	642815	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	599585	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	130461	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	486335	10.07	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	176735	11.1743	PPBV		99
3) FREON 152A	1.608	65	89326	10.9473	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	40053	11.3065	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	197338	11.5774	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	331395m	10.6133	PPBV		
7) PROPYLENE	1.627	41	107588	10.1874	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	298348	10.7394	PPBV		99
9) FREON 114	1.717	85	333202	10.3527	PPBV		98
10) CHLOROMETHANE	1.689	52	39113	8.7346	PPBV		96
11) VINYL CHLORIDE	1.750	62	140496m	8.8606	PPBV		
12) 1,3-BUTADIENE	1.785	54	109540	8.7462	PPBV		99
13) N-BUTANE	1.801	43	189708	8.9517	PPBV		98
14) BROMOMETHANE	1.859	94	120340	9.7876	PPBV		99
15) CHLOROETHANE	1.907	64	77444	8.9982	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.933	67	293933	9.8622	PPBV		99
17) ACETONITRILE	1.997	41	106613	7.1990	PPBV		100
18) ACROLEIN	2.036	56	60964	8.6658	PPBV		97
19) FREON 123	2.049	83	313937	10.4544	PPBV		99
20) FREON 123A	2.068	117	196771	11.0608	PPBV		94
21) TRICHLOROFLUOROMETHANE	2.129	101	362130	10.6783	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	277425	9.6537	PPBV		97
23) ACETONE	2.074	58	72195	9.1885	PPBV		96
24) PENTANE	2.242	42	135958	8.7355	PPBV		95
25) IODOMETHANE	2.303	142	352266	11.2902	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	134028	10.3681	PPBV		95
27) CARBON DISULFIDE	2.463	76	345454	9.4183	PPBV		99
28) ETHANOL	1.936	45	58852	7.6924	PPBV		98
29) BROMOETHENE	2.007	106	125973	10.2053	PPBV		100
30) ACRYLONITRILE	2.213	52	103889	9.4028	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	117155	9.2451	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	62884	9.0946	PPBV		93
33) FREON 113	2.463	151	222768	11.4407	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	127816	8.9868	PPBV		95
35) TERTIARY BUTYL ALCOHOL	2.341	59	281570	7.8423	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	403327	9.9691	PPBV		100
37) TETRAHYDROFURAN	3.470	72	63152	9.6247	PPBV		95
38) HEXANE	3.242	57	265163	9.7303	PPBV		100
39) VINYL ACETATE	2.830	86	39734	10.2179	PPBV		91
40) 1,1-DICHLOROETHANE	2.762	63	268535	9.7668	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	72677	9.7738	PPBV		93
42) CIS-1,2-DICHLOROETHENE	3.116	96	152205	10.3170	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	75942	9.8290	PPBV		95
44) ETHYL ACETATE	3.251	61	53380	10.2196	PPBV		96
45) METHYL ACRYLATE	3.238	55	326671	9.9066	PPBV	#	100
46) CHLOROFORM	3.264	83	302027	10.6136	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	312976	10.2614	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	322542	10.7547	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	344735	11.0957	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224224	10.1362	PPBV		99
51)	BENZENE	4.129	78	434136	9.9453	PPBV		99
53)	CYCLOHEXANE	4.335	84	195153	10.3770	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.586	71	100086	10.6718	PPBV		100
55)	TRICHLOROETHENE	5.013	95	203318	10.1417	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	182672	10.3093	PPBV		99
57)	DIBROMOMETHANE	4.746	174	219183	12.8301	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	405297	10.2192	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	344428	10.6336	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	843872	9.7228	PPBV		99
61)	1,4-DIOXANE	5.029	88	102208	10.7705	PPBV		97
62)	HEPTANE	5.418	43	281372	9.8183	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	166045	10.3110	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	163064	9.4885	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	281698	10.3681	PPBV		97
66)	TOLUENE	7.132	91	550062	10.7769	PPBV		98
67)	1,3-DICHLOROPROPANE	7.190	76	278241	10.8735	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	247748	10.0926	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.765	83	159511	10.9672	PPBV		98
70)	2-HEXANONE	7.691	58	219736	9.1635	PPBV		97
71)	ETHYL METHACRYLATE	7.830	69	282972	10.5342	PPBV		96
72)	TETRACHLOROETHENE	8.846	164	255210	13.7080	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	361003	12.2138	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	305704	11.6183	PPBV	#	98
75)	OCTANE	8.994	43	390745	10.1788	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	247746	11.5146	PPBV		98
78)	CHLOROBENZENE	10.045	112	451175	11.0149	PPBV		99
79)	ETHYLBENZENE	10.926	91	750408	11.1801	PPBV		99
80)	M,P-XYLENE	11.351	91	1163998	21.4078	PPBV		98
81)	O-XYLENE	12.280	91	593266	11.2419	PPBV		99
82)	STYRENE	12.071	104	449108	11.3517	PPBV		99
83)	NONANE	13.402	43	415056	10.1039	PPBV		97
84)	BROMOFORM	11.161	173	406205	16.0491	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	423563	11.2047	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.576	75	333873	11.2690	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218081	10.8709	PPBV		99
89)	BROMOBENZENE	13.656	77	410584	10.6567	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	201788	10.7850	PPBV		100
91)	N-PROPYLBENZENE	15.125	120	231395	10.8678	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	870118	11.0427	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.846	105	731717	11.1579	PPBV		98
94)	ALPHA-METHYLSTYRENE	16.173	118	351353	10.8032	PPBV		99
95)	TERT-BUTYLBENZENE	16.495	134	165463	10.3488	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	747610	11.4996	PPBV		99
97)	BENZYL CHLORIDE	16.598	91	551134	10.4934	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	482591	10.8044	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	486723	11.0587	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	460040	11.1032	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	202794	10.6516	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	718118	11.0188	PPBV		98
103)	P-ISOPROPYLTOLUENE	17.009	134	221605	10.4722	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218487	10.8299	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	282989	11.3859	PPBV	#	83
106)	HEXACHLOROBUTADIENE	18.620	225	578900	19.6459	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.308	180	586728	16.6022	PPBV		97
108)	NAPHTHALENE	18.357	128	1106673	13.9595	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	673394	9.1450	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

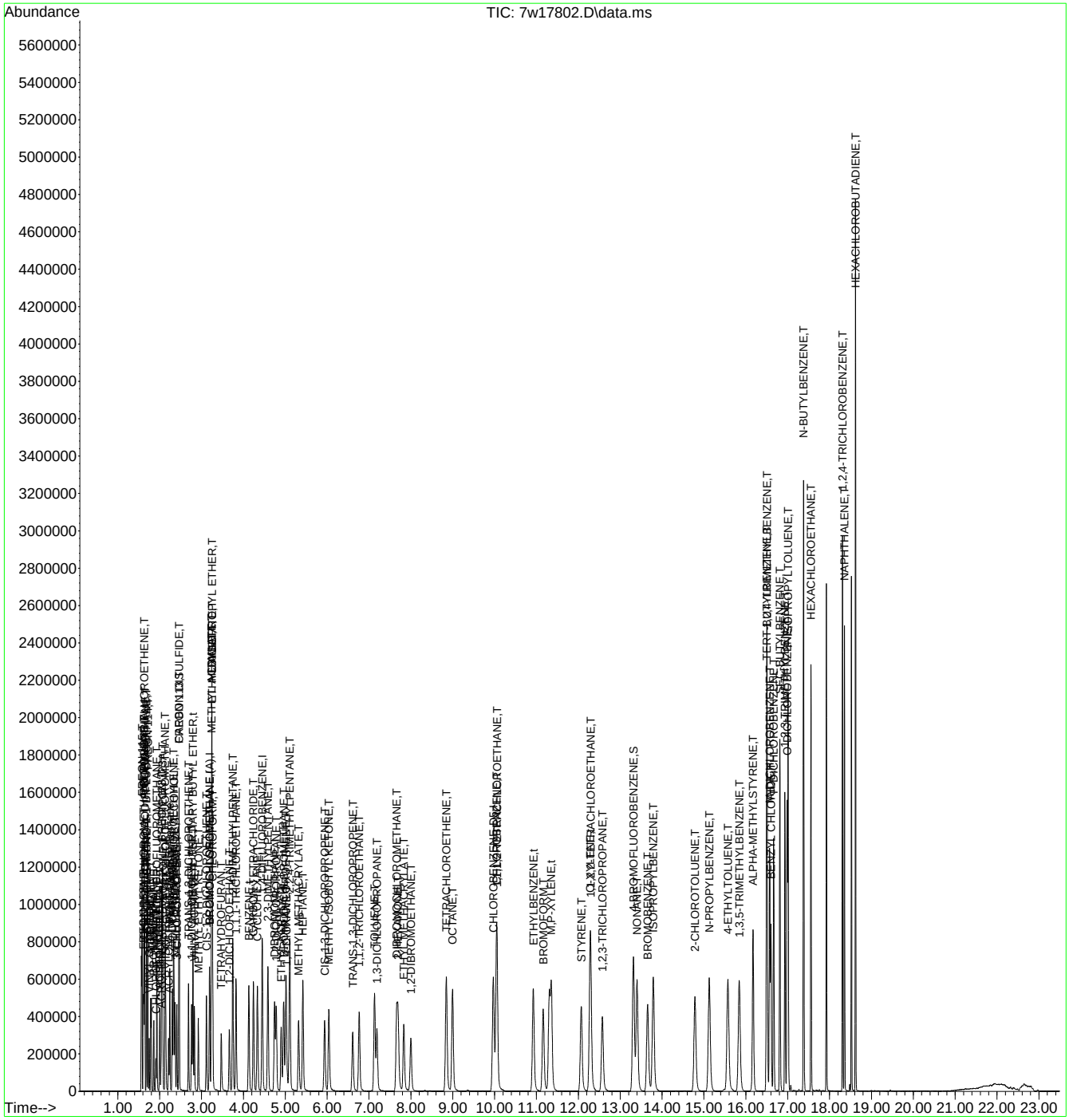
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

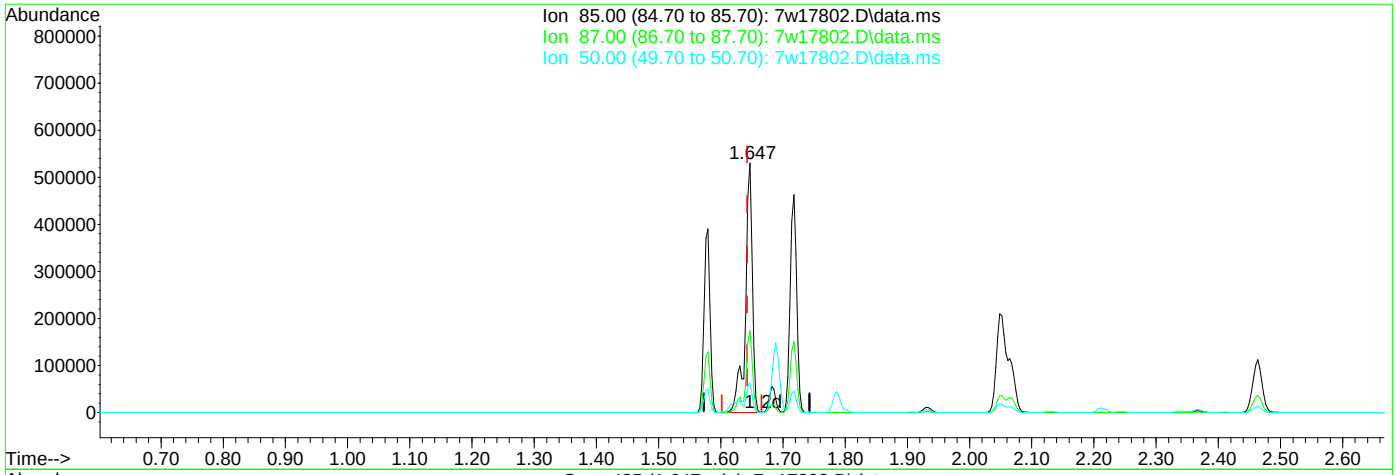
Sample Number: V7W624-BS
Lab FileID: 7W17802.D
Injection Time: 10/13/25 12:00
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

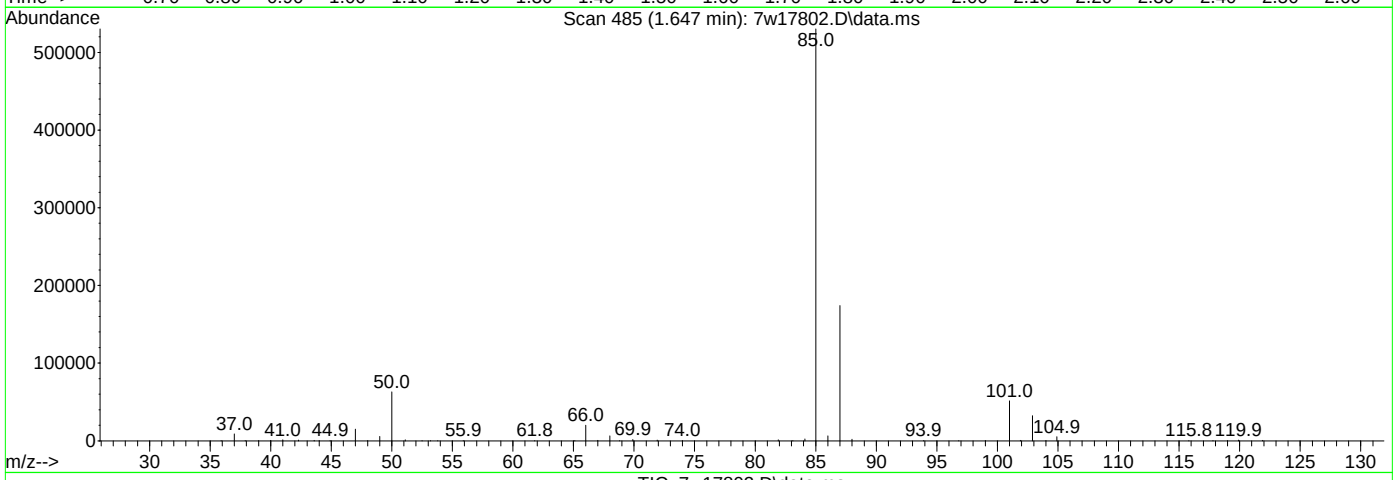
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.10PPBV

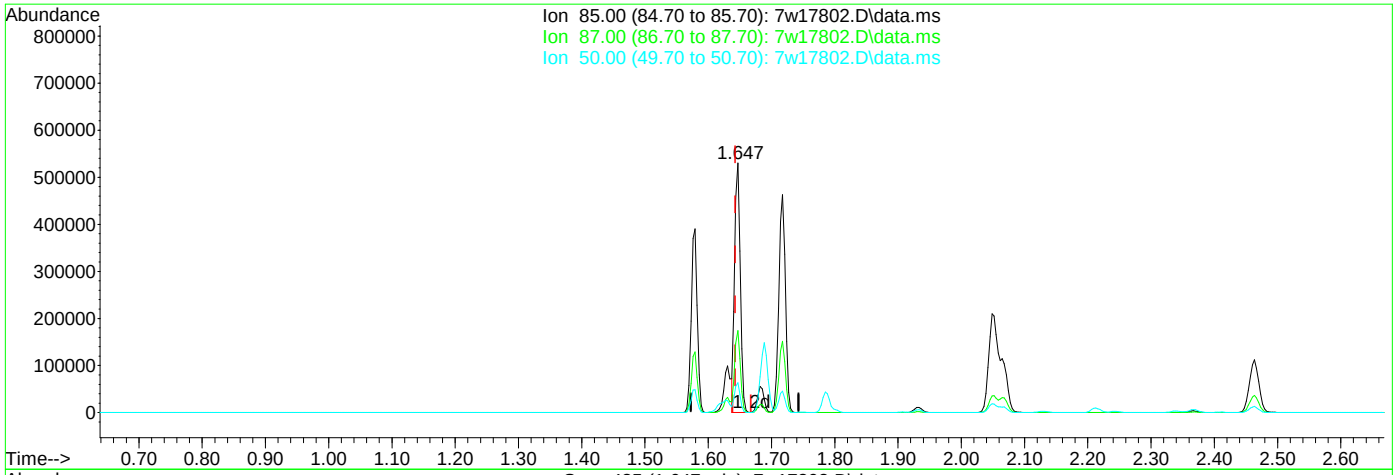
response 409190

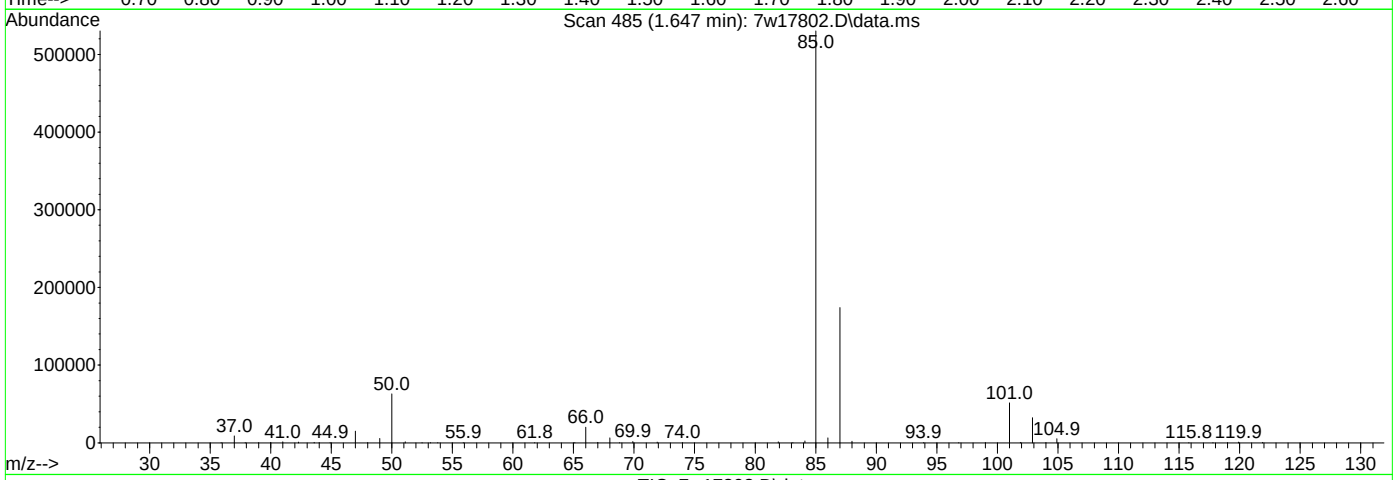
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.71
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.61PPBV m

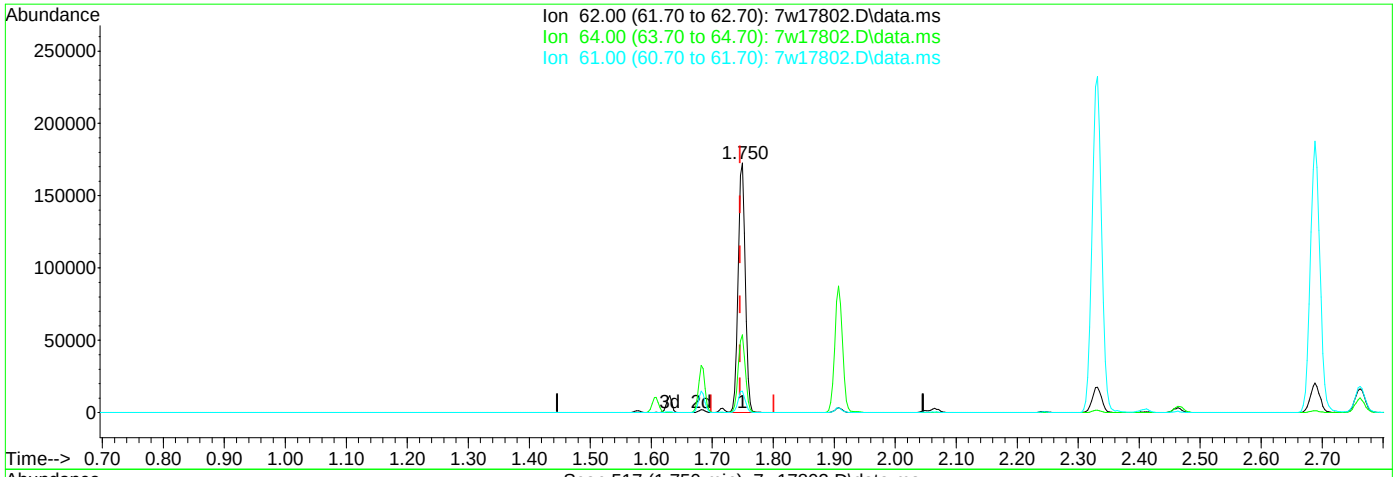
response 331395

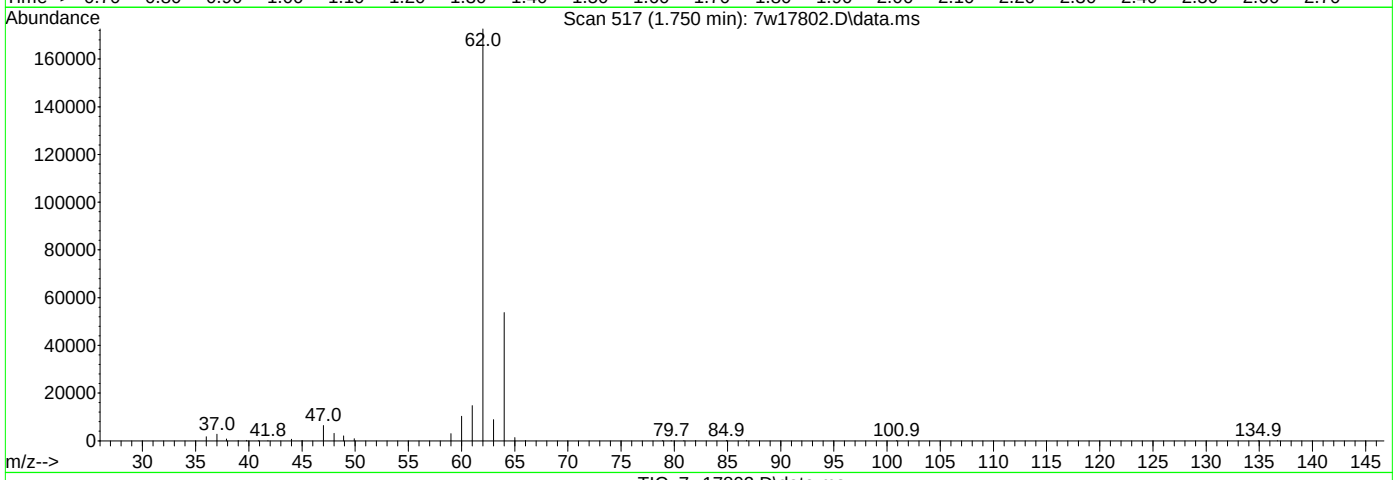
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.39
50.00	19.30	21.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.98PPBV

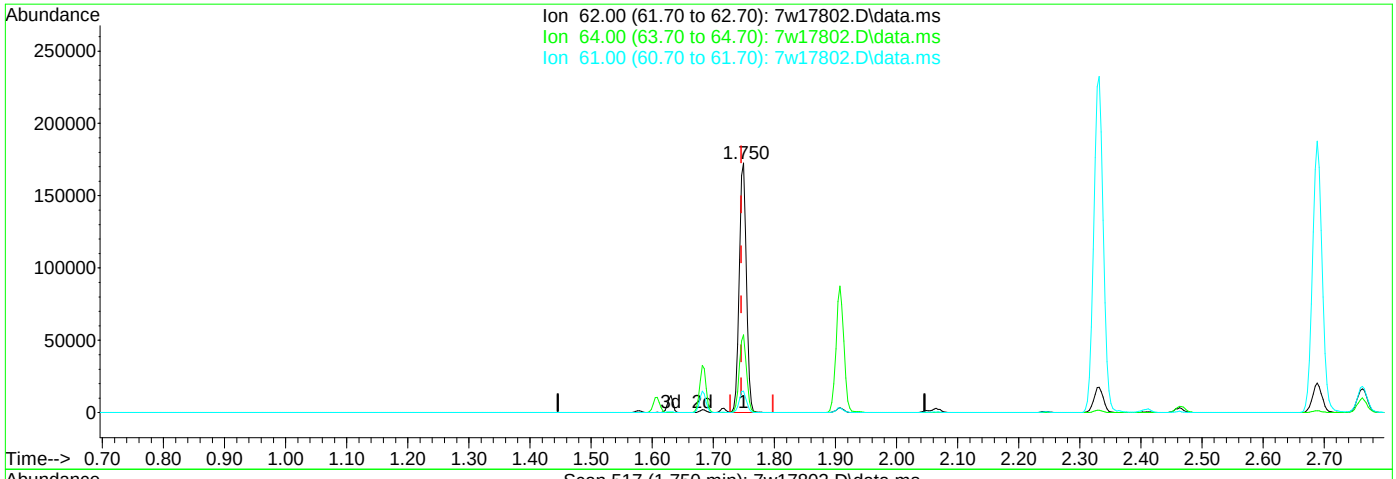
response 142442

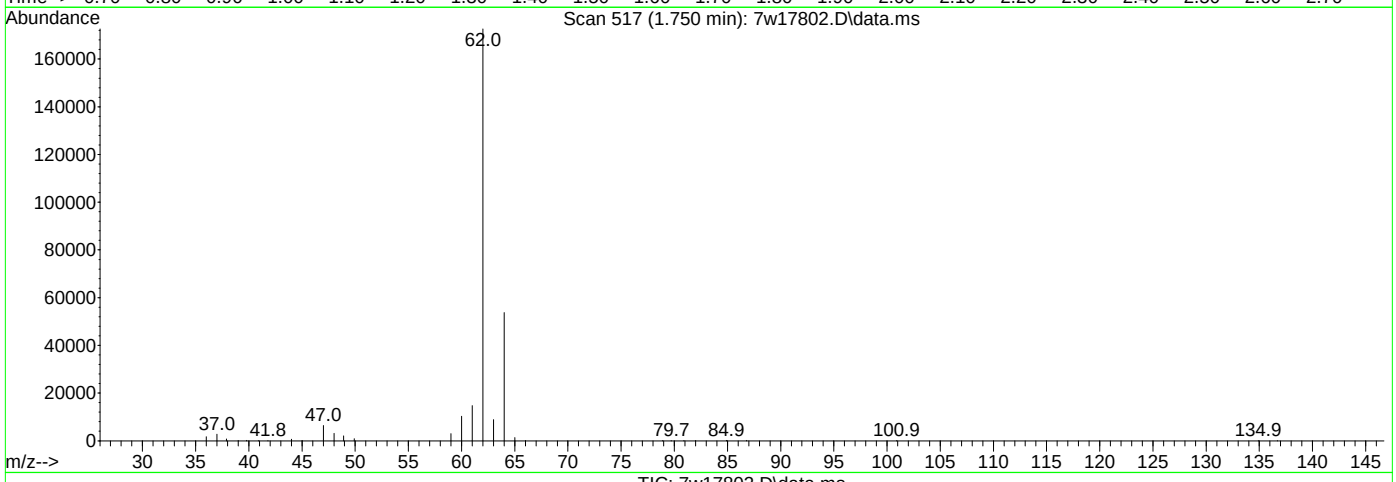
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.06
61.00	8.10	8.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.86PPBV m

response 140496

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.49
61.00	8.10	9.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	133015	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	654252	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	606507	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	133015	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	488885	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	184518	11.4351	PPBV		97
3) FREON 152A	1.608	65	88561	10.6384	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	39504	10.9306	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	198082	11.3907	PPBV		93
6) DICHLORODIFLUOROMETHANE	1.647	85	330825m	10.3850	PPBV		
7) PROPYLENE	1.627	41	106360	9.8716	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	294346	10.3854	PPBV		99
9) FREON 114	1.718	85	333590	10.1593	PPBV		98
10) CHLOROMETHANE	1.689	52	38875	8.5094	PPBV		95
11) VINYL CHLORIDE	1.750	62	141171m	8.7268	PPBV		
12) 1,3-BUTADIENE	1.788	54	109232	8.5488	PPBV		98
13) N-BUTANE	1.801	43	188556	8.7211	PPBV		98
14) BROMOMETHANE	1.859	94	120595	9.6140	PPBV		100
15) CHLOROETHANE	1.907	64	77077	8.7781	PPBV		97
16) DICHLOROFLUOROMETHANE	1.933	67	293626	9.6567	PPBV		99
17) ACETONITRILE	1.997	41	107546	7.1181	PPBV		100
18) ACROLEIN	2.036	56	60096	8.3731	PPBV		98
19) FREON 123	2.049	83	313055	10.2185	PPBV		99
20) FREON 123A	2.068	117	194913	10.7393	PPBV		95
21) TRICHLOROFLUOROMETHANE	2.129	101	360832	10.4292	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	271841	9.2719	PPBV		97
23) ACETONE	2.074	58	71308	8.8957	PPBV		93
24) PENTANE	2.245	42	137594	8.6655	PPBV		97
25) IODOMETHANE	2.303	142	349118	10.9676	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	133461	10.1196	PPBV		93
27) CARBON DISULFIDE	2.463	76	347514	9.2867	PPBV		99
28) ETHANOL	1.936	45	58793	7.5324	PPBV		99
29) BROMOETHENE	2.007	106	126156	10.0176	PPBV		99
30) ACRYLONITRILE	2.213	52	102809	9.1206	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	116850	9.0383	PPBV		91
32) 3-CHLOROPROPENE	2.409	76	62225	8.8210	PPBV		94
33) FREON 113	2.463	151	226512	11.4025	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.689	96	126753	8.7354	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.341	59	282424	7.7102	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	404326	9.7958	PPBV		100
37) TETRAHYDROFURAN	3.470	72	64425	9.6242	PPBV		94
38) HEXANE	3.242	57	266392	9.5817	PPBV		99
39) VINYL ACETATE	2.830	86	39170	9.8733	PPBV		92
40) 1,1-DICHLOROETHANE	2.762	63	279927	9.9793	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	72215	9.5192	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	151940	10.0949	PPBV		97
43) DIISOPROPYL ETHER	3.245	59	75945	9.6346	PPBV		93
44) ETHYL ACETATE	3.251	61	53799	10.0957	PPBV		93
45) METHYL ACRYLATE	3.238	55	325302	9.6696	PPBV	#	99
46) CHLOROFORM	3.264	83	301909	10.3992	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313273	10.0676	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	320180	10.4644	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	344405	10.8654	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	222139	9.8429	PPBV		98
51)	BENZENE	4.129	78	434777	9.7626	PPBV		99
53)	CYCLOHEXANE	4.335	84	196451	10.2634	PPBV		98
54)	2,3-DIMETHYLPENTANE	4.589	71	99309	10.4039	PPBV		100
55)	TRICHLOROETHENE	5.016	95	203186	9.9580	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181676	10.0739	PPBV		99
57)	DIBROMOMETHANE	4.746	174	220157	12.6619	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	408747	10.1261	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	340157	10.3182	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	830339	9.3996	PPBV		100
61)	1,4-DIOXANE	5.029	88	100689	10.4249	PPBV		99
62)	HEPTANE	5.418	43	278969	9.5643	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	165333	10.0873	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	164209	9.3881	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	282530	10.2170	PPBV		96
66)	TOLUENE	7.129	91	547970	10.5482	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	280485	10.7696	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	247201	9.8943	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	160800	10.8626	PPBV		98
70)	2-HEXANONE	7.692	58	221370	9.0703	PPBV		96
71)	ETHYL METHACRYLATE	7.830	69	280723	10.2678	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	253519	13.3791	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	357061	11.8692	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	302895	11.3103	PPBV	#	100
75)	OCTANE	8.997	43	389859	9.9782	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	244269	11.2234	PPBV		97
78)	CHLOROBENZENE	10.045	112	450459	10.8719	PPBV		100
79)	ETHYLBENZENE	10.923	91	751257	11.0651	PPBV		99
80)	M,P-XYLENE	11.347	91	1173523	21.3367	PPBV		99
81)	O-XYLENE	12.277	91	592934	11.1073	PPBV		99
82)	STYRENE	12.068	104	454402	11.3545	PPBV		99
83)	NONANE	13.402	43	413963	9.9623	PPBV		98
84)	BROMOFORM	11.161	173	406068	15.8606	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	423094	11.0646	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	334705	11.1682	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218245	10.7550	PPBV		100
89)	BROMOBENZENE	13.656	77	409590	10.5096	PPBV		87
90)	2-CHLOROTOLUENE	14.785	126	203896	10.7733	PPBV		100
91)	N-PROPYLBENZENE	15.129	120	231345	10.7414	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	877241	11.0060	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	734177	11.0677	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.170	118	351054	10.6708	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	165961	10.2615	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	742070	11.2841	PPBV		100
97)	BENZYL CHLORIDE	16.598	91	548913	10.3318	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	486045	10.7576	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	485602	10.9073	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	457928	10.9261	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	201843	10.4806	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	720134	10.9236	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	221195	10.3336	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218571	10.7104	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	284764	11.3265	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.624	225	569272	19.0986	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	587813	16.4431	PPBV		97
108)	NAPHTHALENE	18.357	128	1114796	13.9014	PPBV		100
110)	TVHC as equiv Pentane	2.245	TIC	677533	9.0245	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

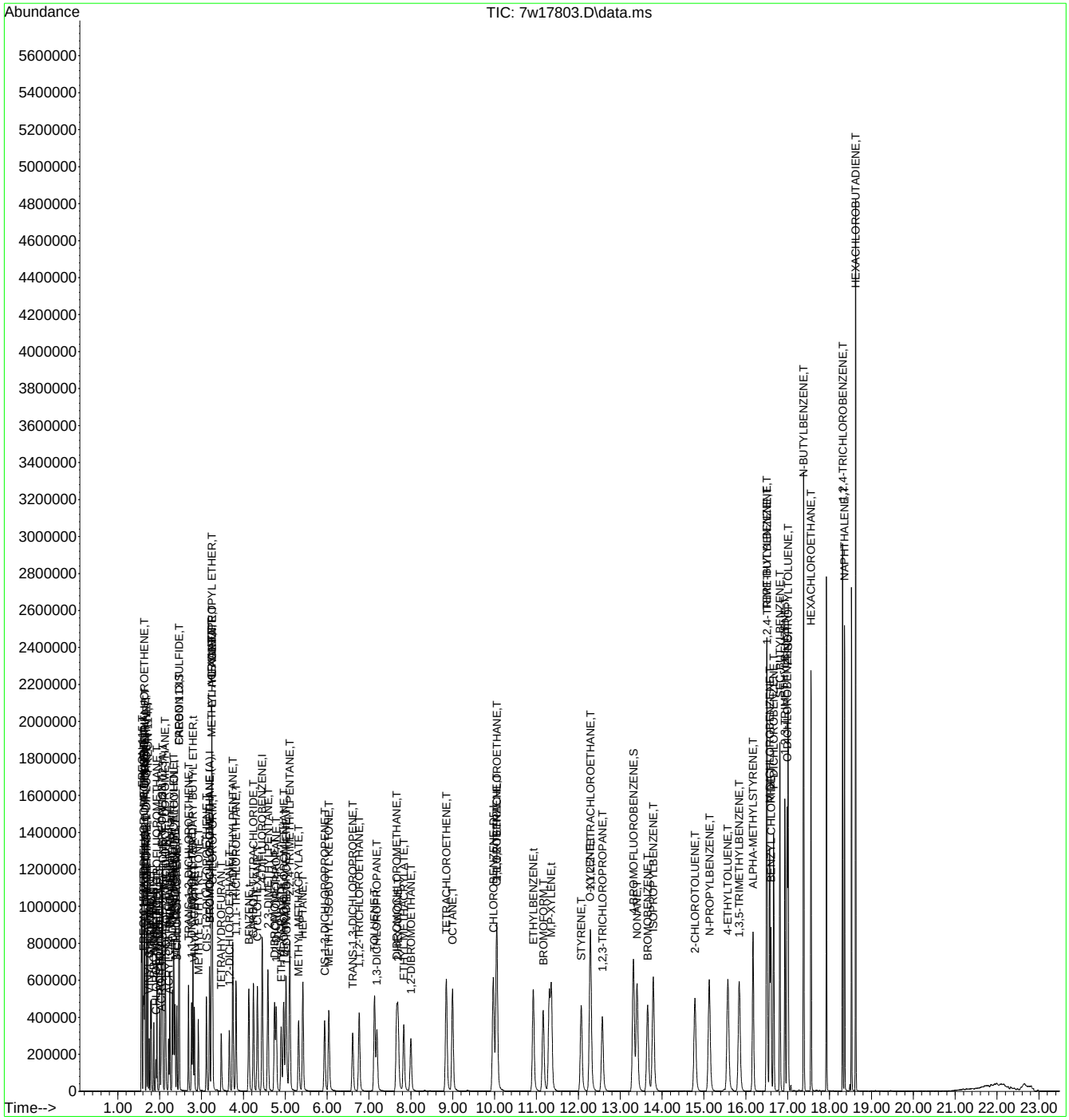
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

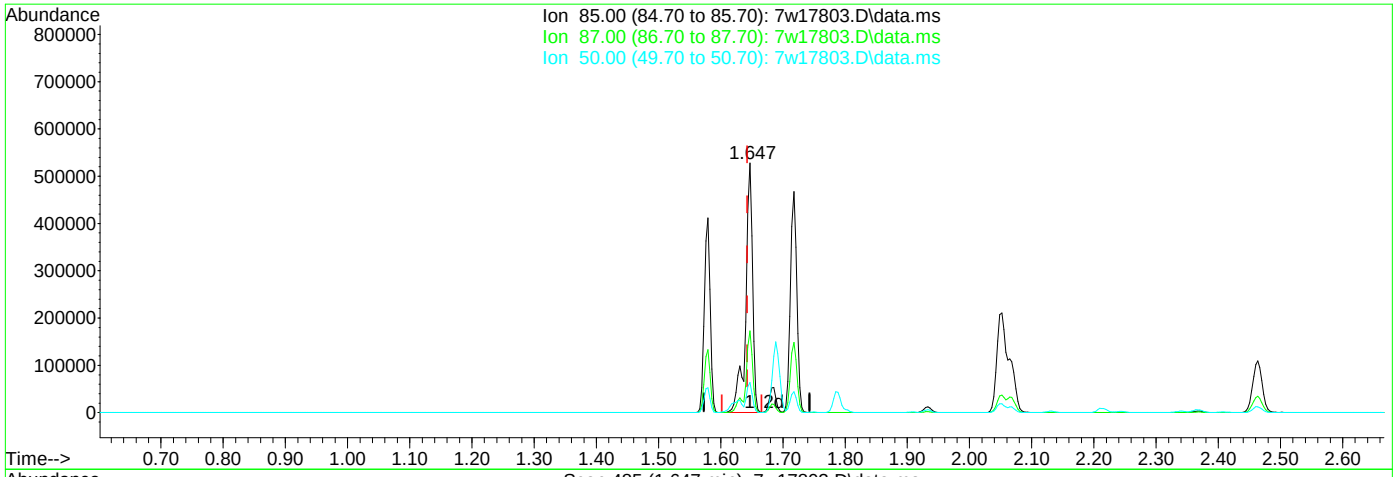
Sample Number: V7W624-BSD
Lab FileID: 7W17803.D
Injection Time: 10/13/25 12:37
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

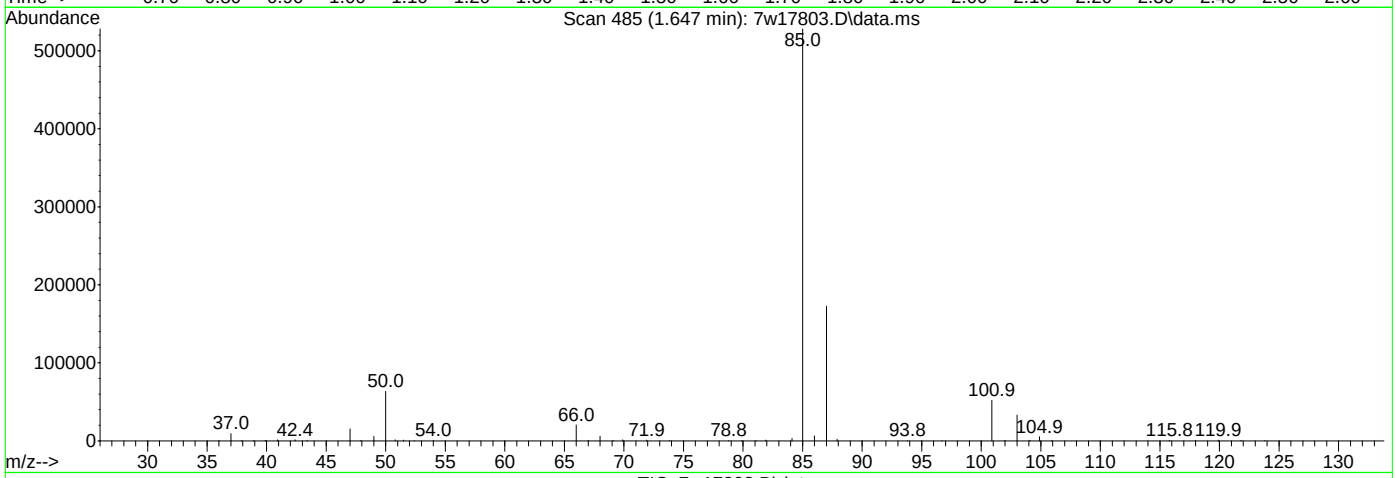
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

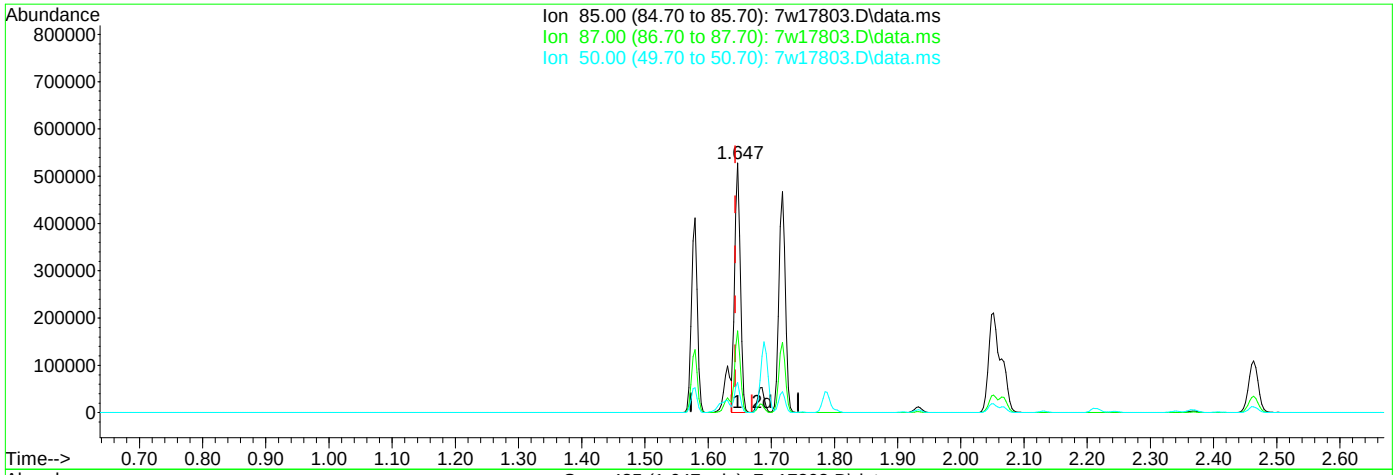
response 406017

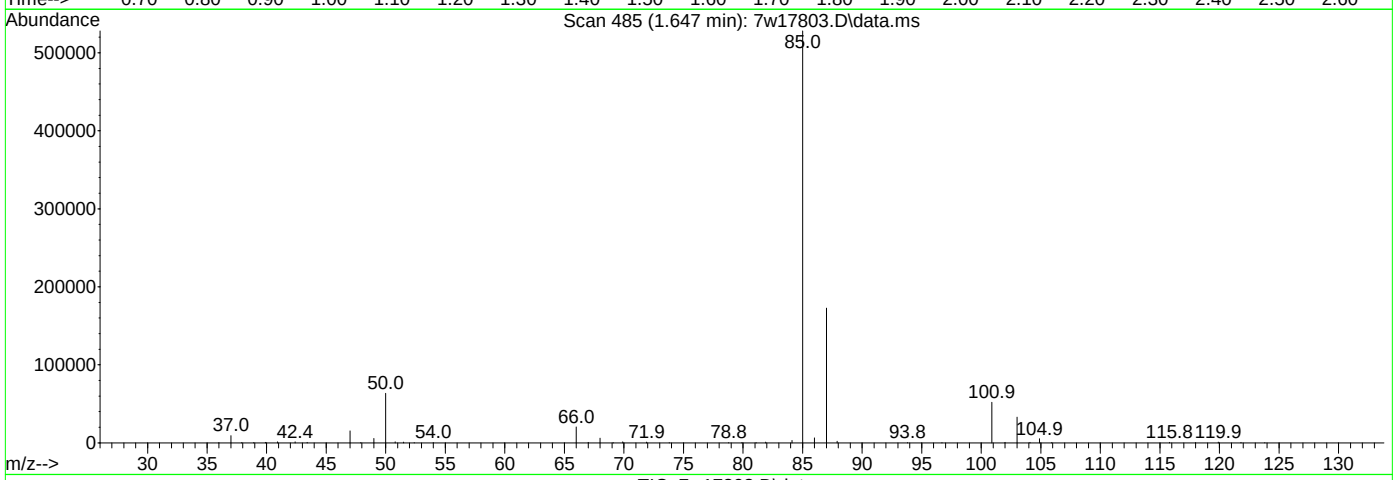
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.62
50.00	19.30	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.39PPBV m

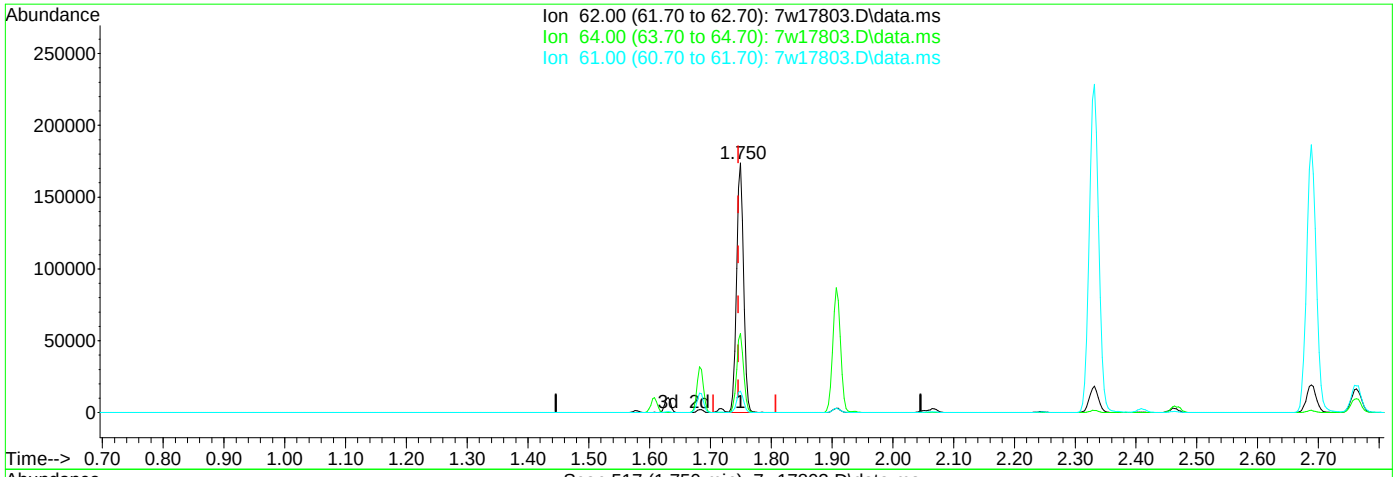
response 330825

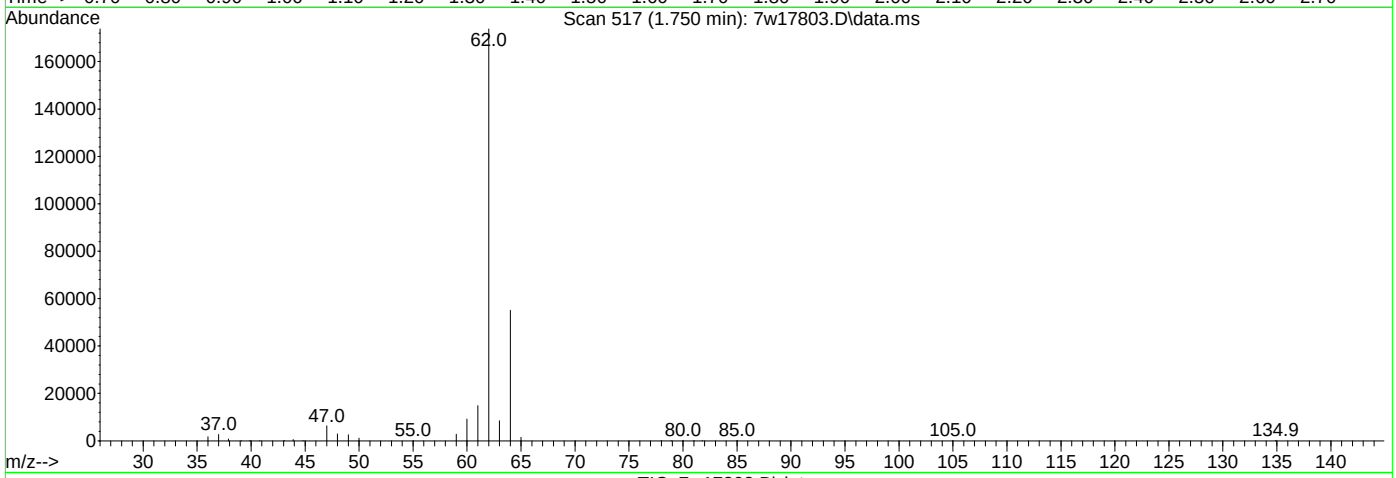
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.03
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.85PPBV

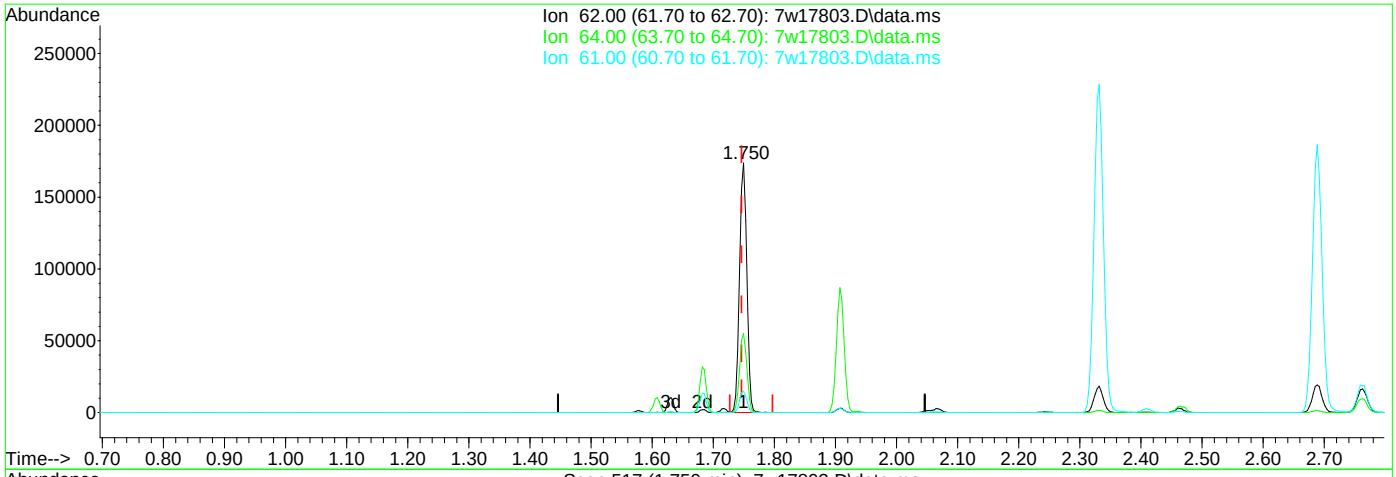
response 143146

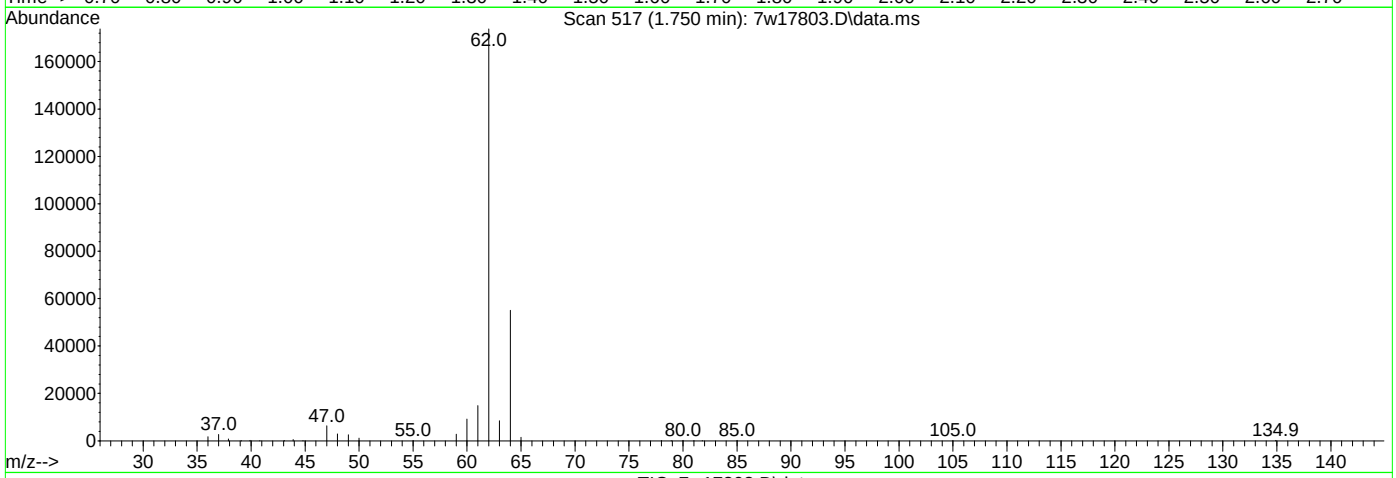
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.17
61.00	8.10	8.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.73PPBV m

response 141171

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.61
61.00	8.10	8.79
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

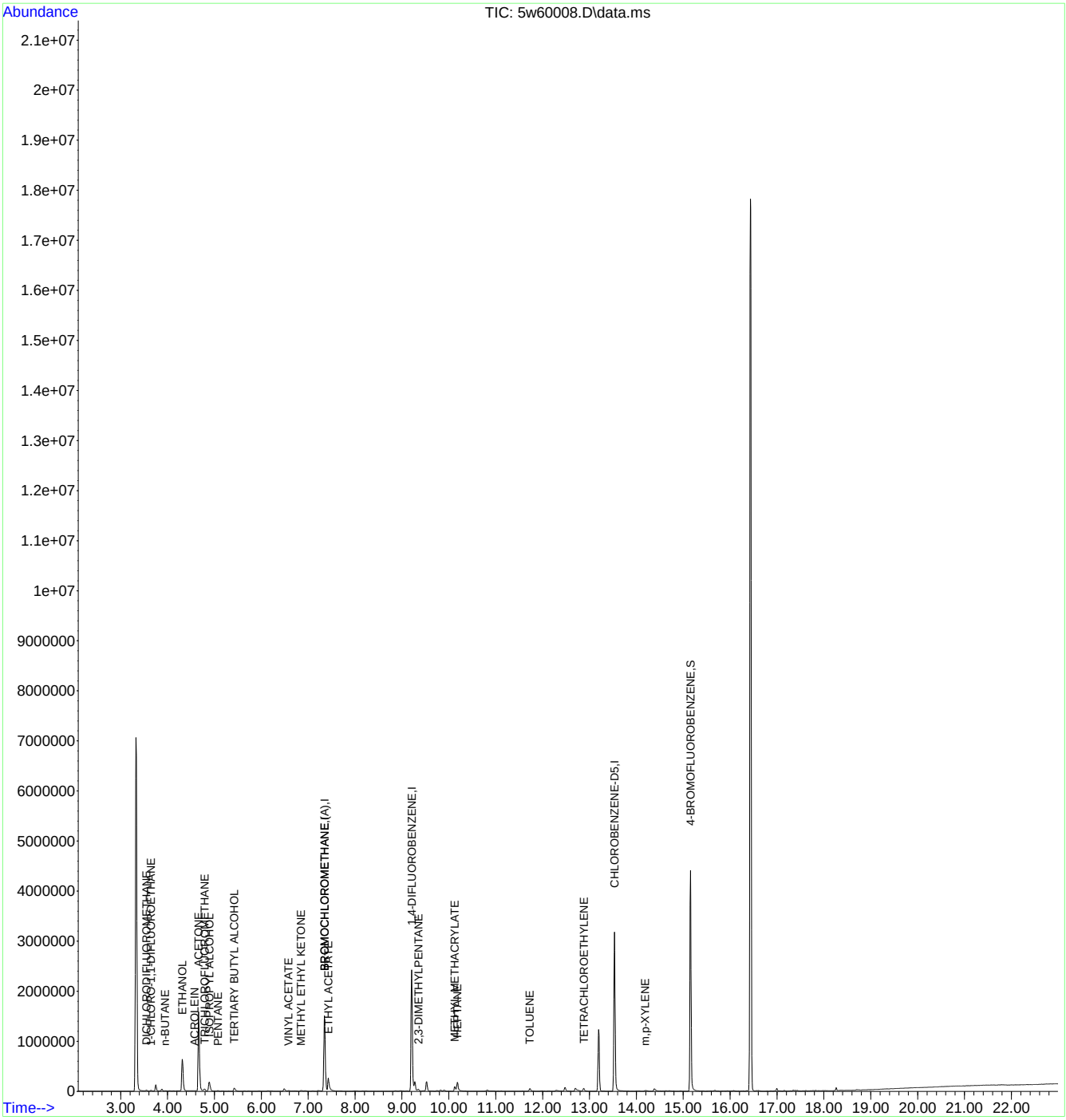
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	490041	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2190031	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1089506	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	490778	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1484212	10.90	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.00%				
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	3.549	85	17723	0.1264	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13929	0.1226	PPBV		96
13) n-BUTANE	3.946	43	4731	0.1013	PPBV		92
18) ACROLEIN	4.577	56	3620	0.2388	PPBV		79
21) TRICHLOROFLUOROMETHANE	4.791	101	31215	0.2606	PPBV		99
22) ISOPROPYL ALCOHOL	4.888	45	300854	3.1308	PPBV		95
23) ACETONE	4.662	58	752725	39.1644	PPBV		89
24) PENTANE	5.072	42	5091	0.1020	PPBV		98
28) ETHANOL	4.313	45	842689	52.3433	PPBV		98
35) TERTIARY BUTYL ALCOHOL	5.421	59	84382	0.8587	PPBV		95
39) VINYL ACETATE	6.577	86	1682	0.2126	PPBV	#	89
41) METHYL ETHYL KETONE	6.840	72	7867	0.4156	PPBV		95
44) ETHYL ACETATE	7.427	61	58928	4.0742	PPBV		94
54) 2,3-DIMETHYLPENTANE	9.342	71	6241	0.2107	PPBV	#	92
62) HEPTANE	10.180	43	107980	1.2790	PPBV		78
63) METHYL METHACRYLATE	10.125	69	55112	1.1525	PPBV	#	73
66) TOLUENE	11.728	92	30163	0.2750	PPBV		94
73) TETRACHLOROETHYLENE	12.878	164	14795	0.1991	PPBV		97
80) m,p-XYLENE	14.194	106	8586	0.1043	PPBV		96

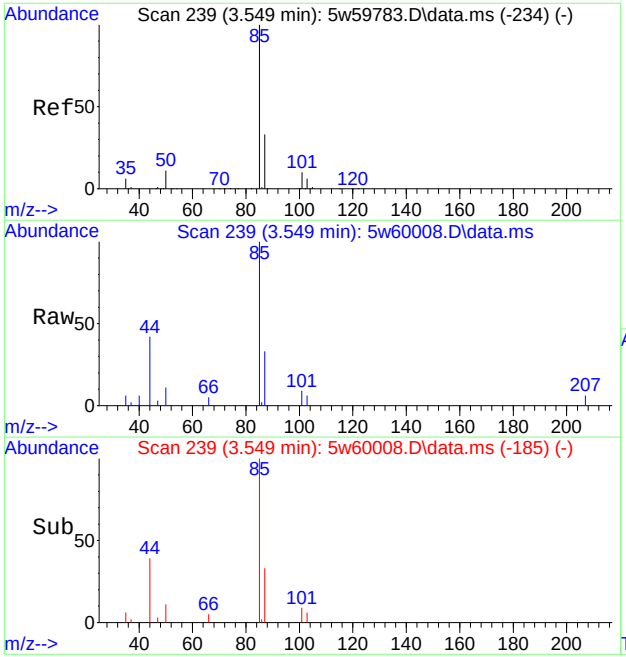
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

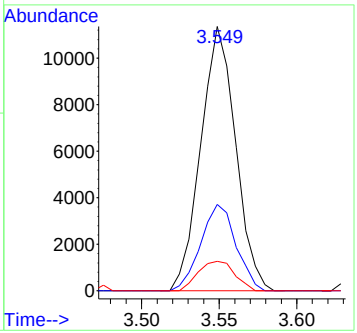


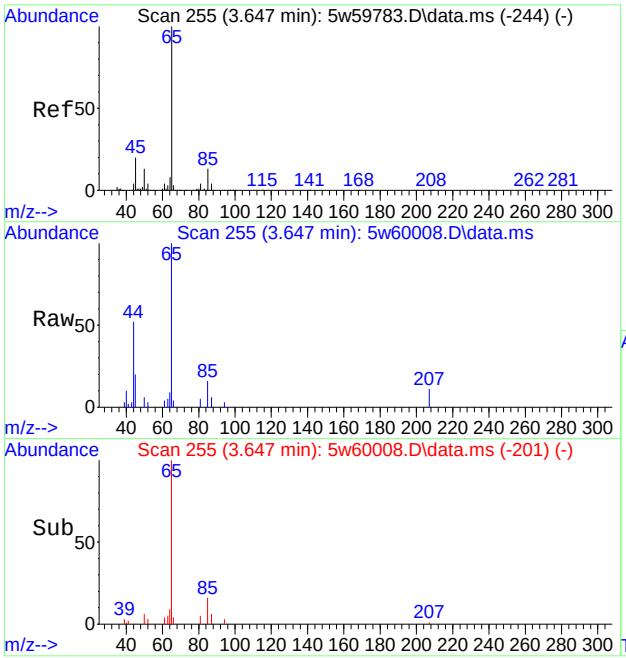


#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 85 Resp: 17723

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

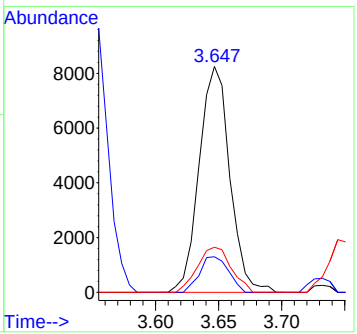


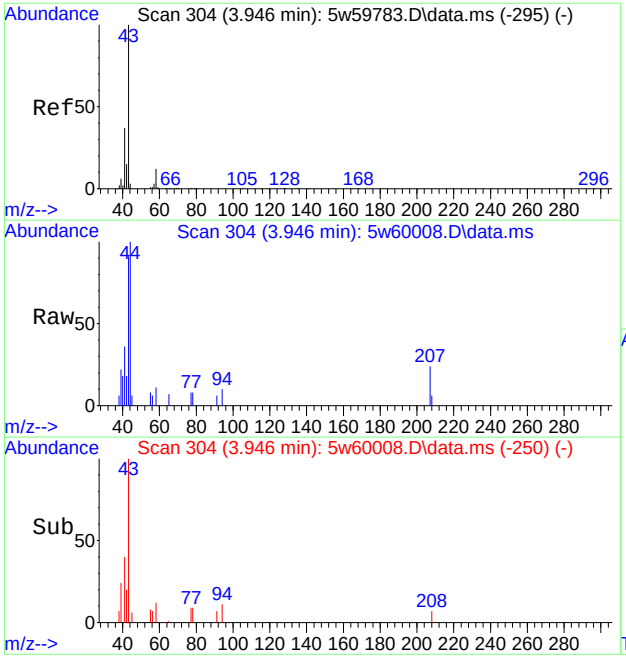


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.12 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 65 Resp: 13929

Ion	Ratio	Lower	Upper
65	100		
85	14.8	11.5	21.3
45	22.0	14.0	26.0

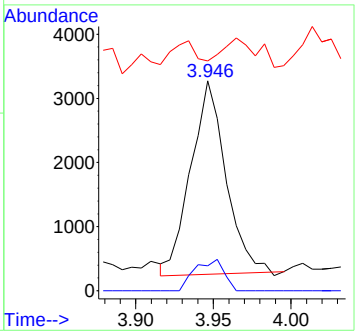


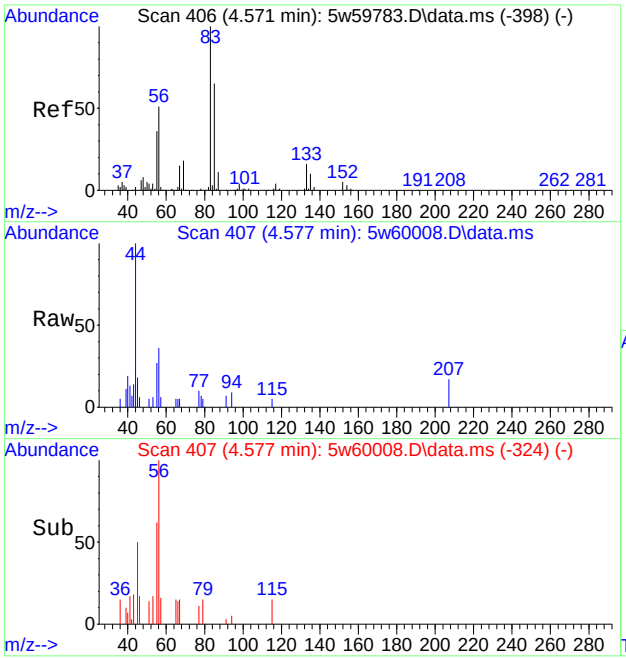


#13
n-BUTANE
Concen: 0.10 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 4731

Ion	Ratio	Lower	Upper
43	100		
58	13.4	0.0	42.6
44	13.1	0.0	34.9

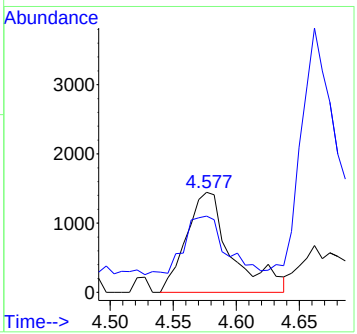


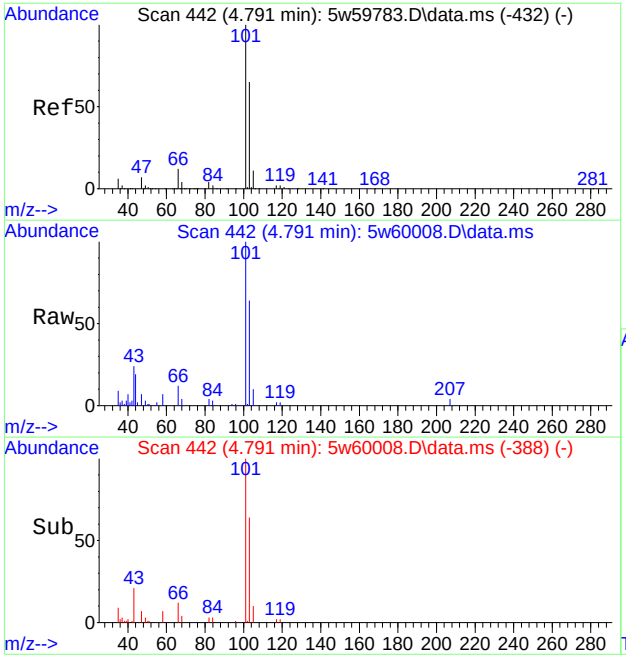


#18
ACROLEIN
Concen: 0.24 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 56 Resp: 3620

Ion	Ratio	Lower	Upper
56	100		
55	50.0	46.6	86.6

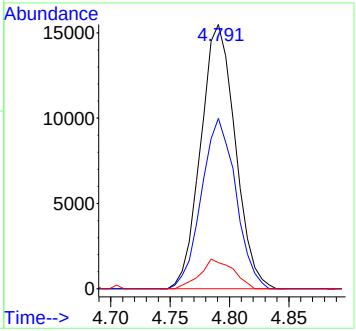


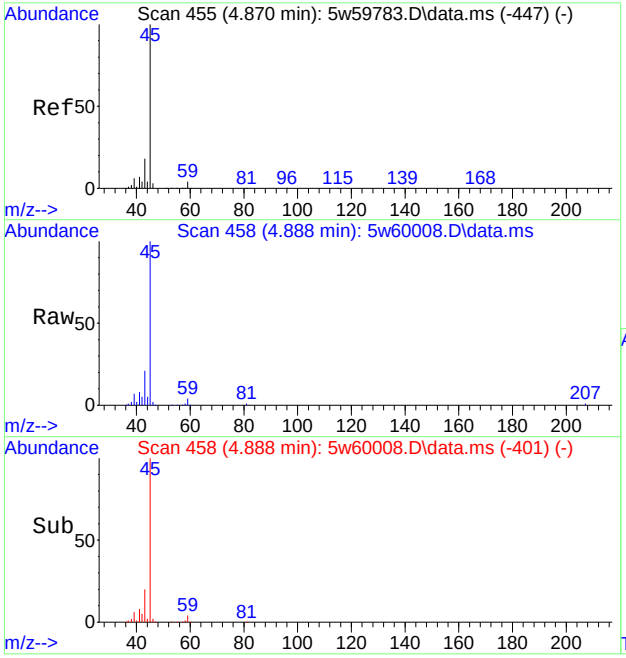


#21
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:101 Resp: 31215

Ion	Ratio	Lower	Upper
101	100		
103	64.1	35.0	95.0
105	10.8	0.0	40.7

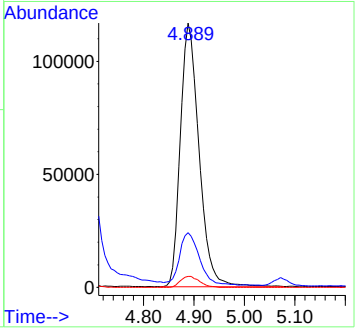


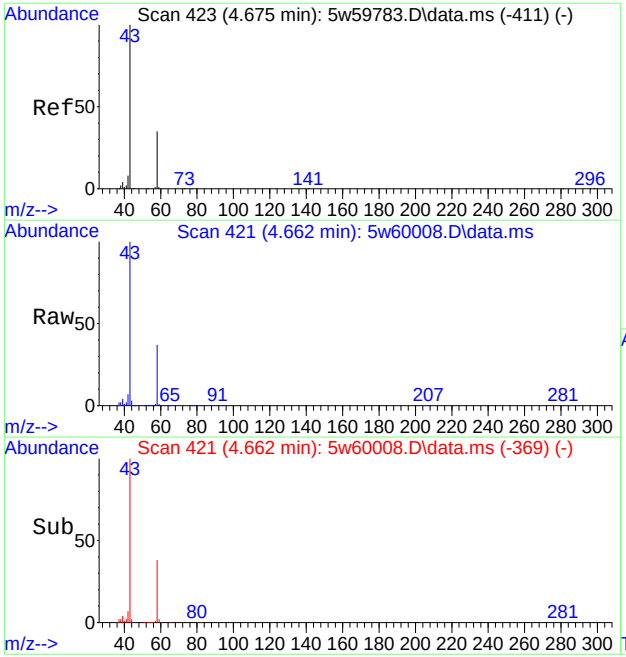


#22
ISOPROPYL ALCOHOL
Concen: 3.13 PPBV
RT: 4.888 min Scan# 458
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 300854

Ion	Ratio	Lower	Upper
45	100		
43	20.7	0.0	47.8
59	4.1	0.0	34.1

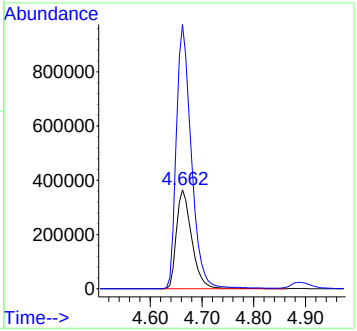


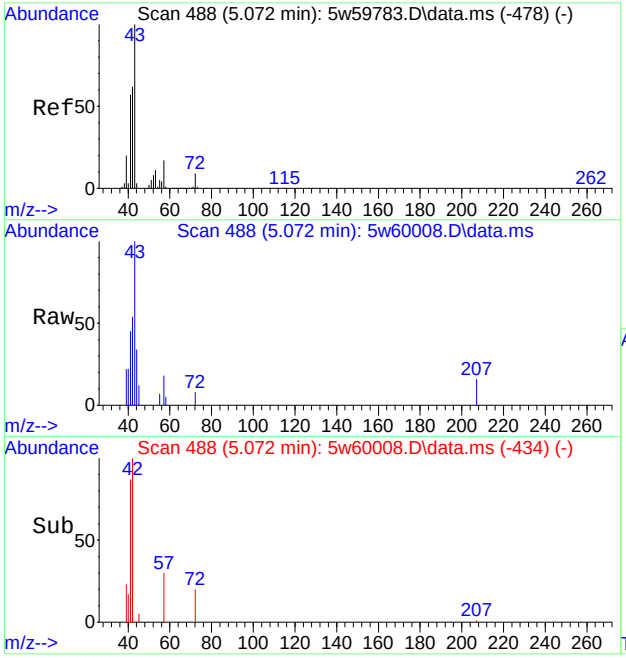


#23
ACETONE
Concen: 39.16 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 58 Resp: 752725

Ion	Ratio	Lower	Upper
58	100		
43	261.3	252.3	312.3

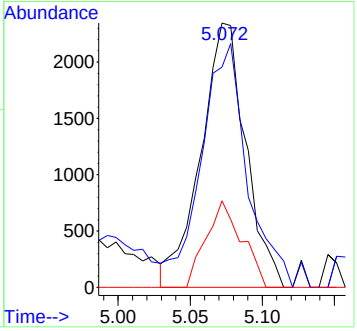


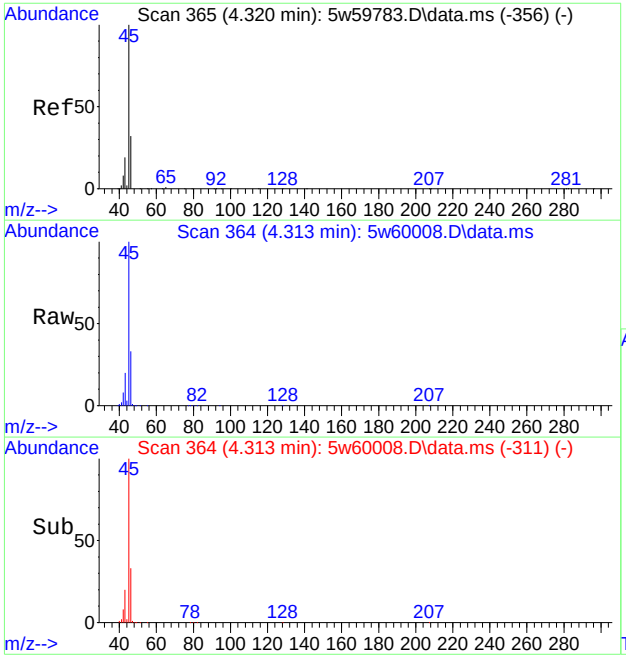


#24
PENTANE
Concen: 0.10 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 42 Resp: 5091

Ion	Ratio	Lower	Upper
42	100		
41	93.8	62.3	122.3
57	26.0	0.0	57.7

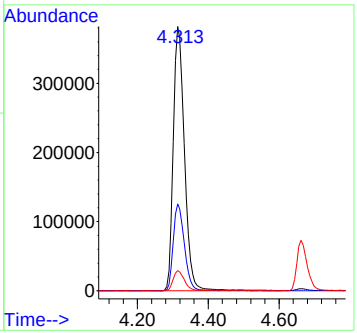


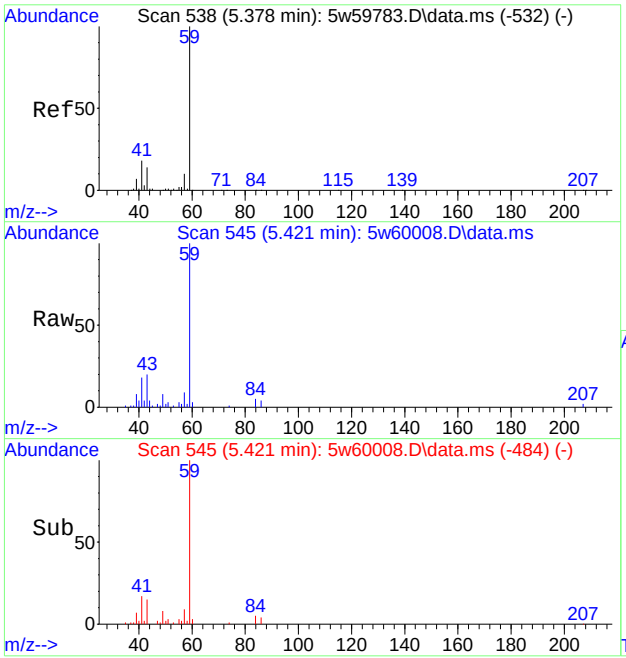


#28
ETHANOL
Concen: 52.34 PPBV
RT: 4.313 min Scan# 364
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 842689

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	7.8	0.0	38.5

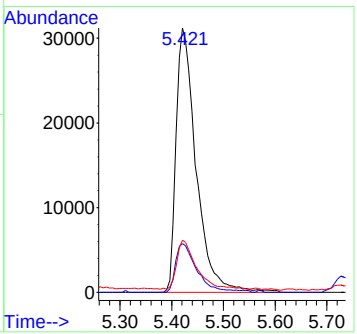


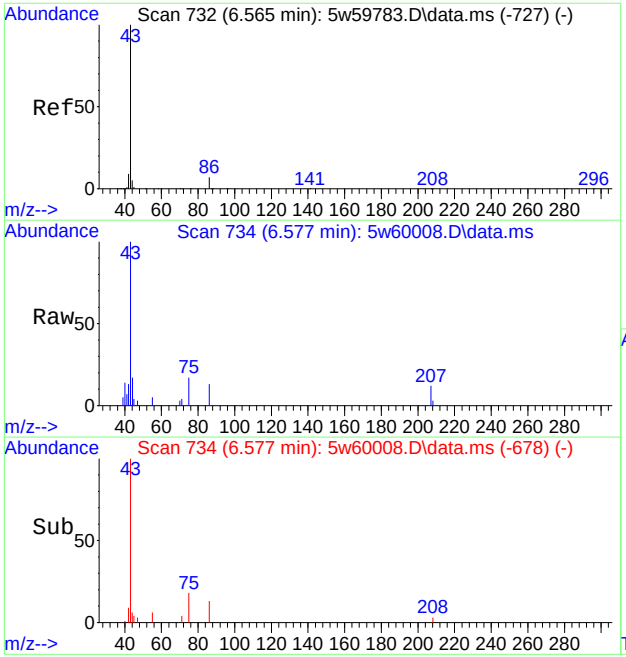


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.86 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 59 Resp: 84382

Ion	Ratio	Lower	Upper
59	100		
41	19.7	0.0	49.3
43	18.9	0.0	44.1

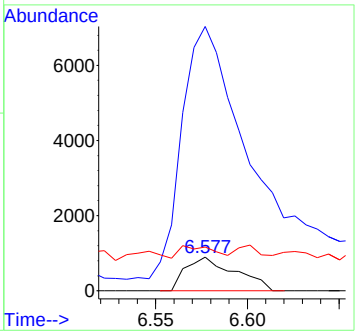


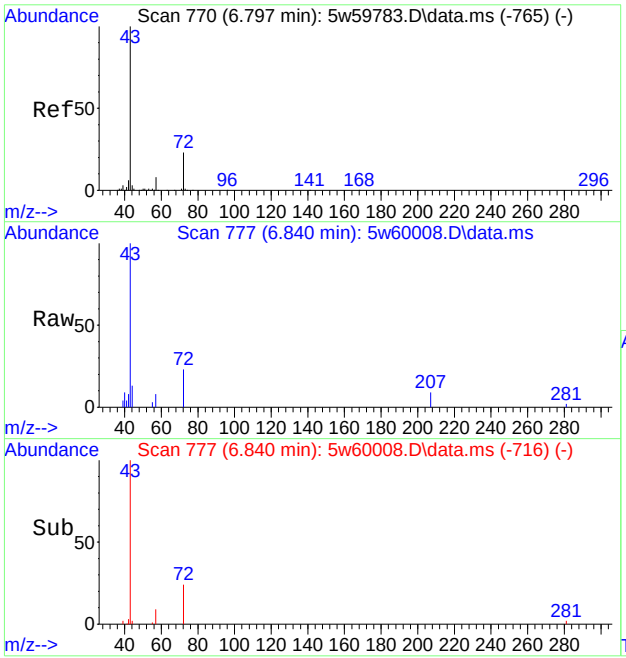


#39
VINYL ACETATE
Concen: 0.21 PPBV
RT: 6.577 min Scan# 734
Delta R.T. 0.012 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 86 Resp: 1682

Ion	Ratio	Lower	Upper
86	100		
43	1459.6	1379.7	1439.7#
44	24.5	36.9	96.9#

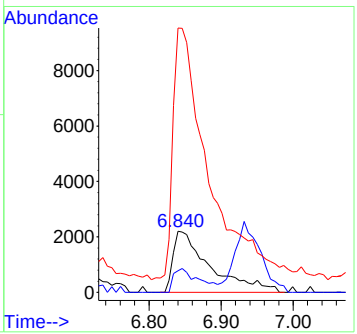


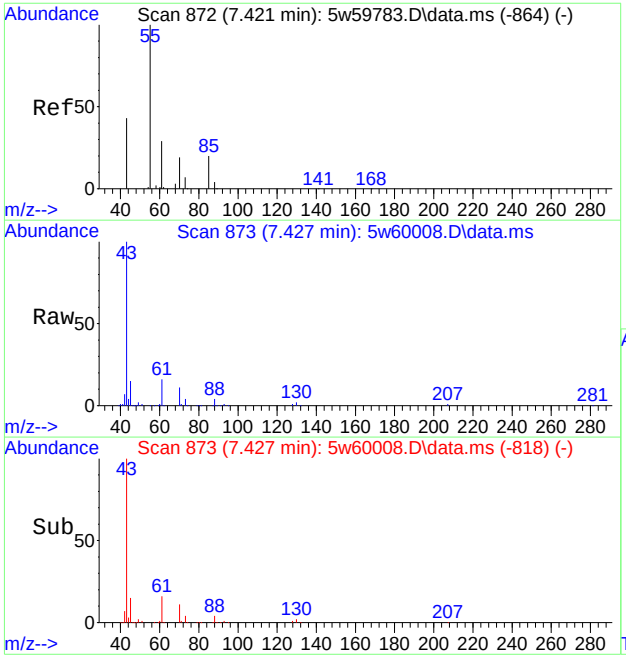


#41
METHYL ETHYL KETONE
Concen: 0.42 PPBV
RT: 6.840 min Scan# 777
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 72 Resp: 7867

Ion	Ratio	Lower	Upper
72	100		
57	35.4	4.8	64.8
43	431.7	415.9	475.9

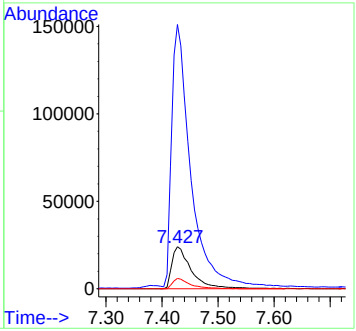


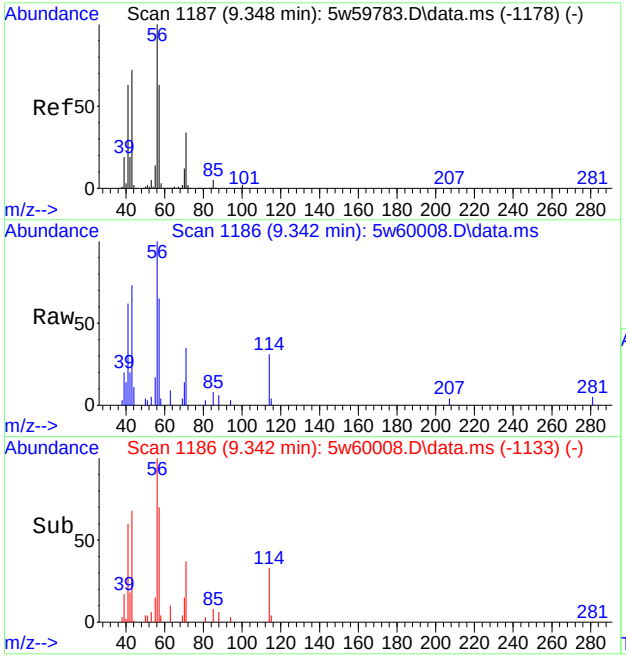


#44
ETHYL ACETATE
Concen: 4.07 PPBV
RT: 7.427 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 61 Resp: 58928

Ion	Ratio	Lower	Upper
61	100		
43	606.5	560.5	620.5
88	22.1	4.5	64.5

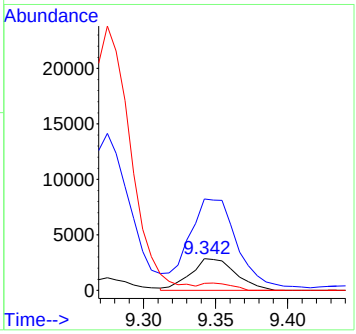


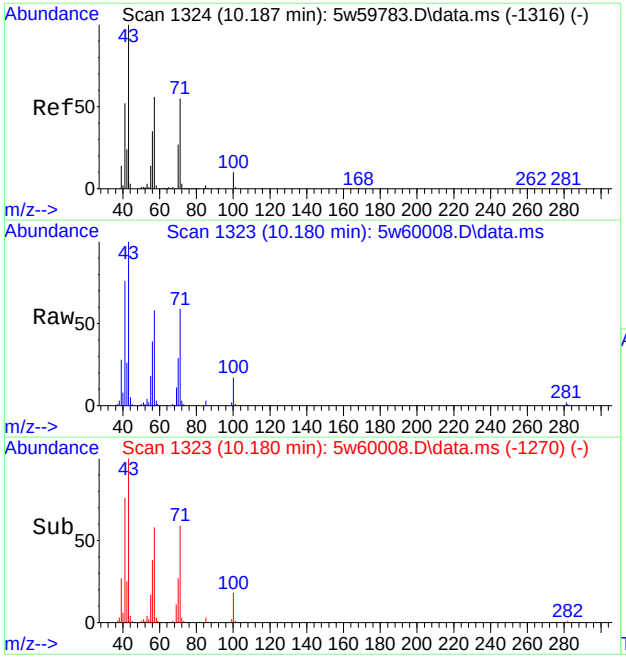


#54
2,3-DIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 71 Resp: 6241

Ion	Ratio	Lower	Upper
71	100		
56	306.2	264.6	324.6
85	0.0	0.0	45.3

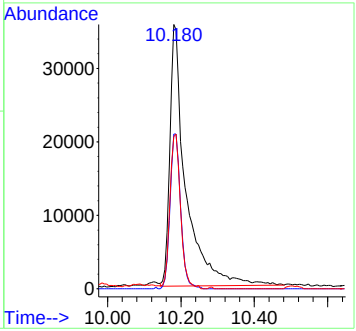


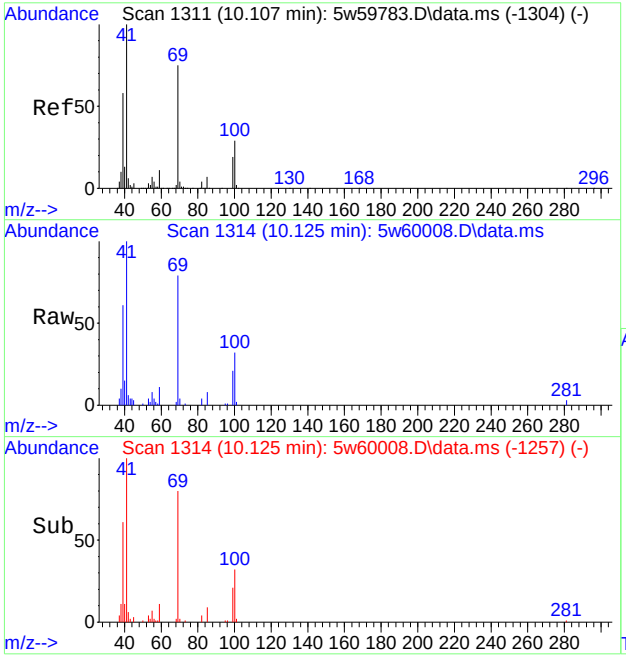


#62
HEPTANE
Concen: 1.28 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 107980

Ion	Ratio	Lower	Upper
43	100		
71	39.3	24.5	84.5
57	39.6	26.2	86.2

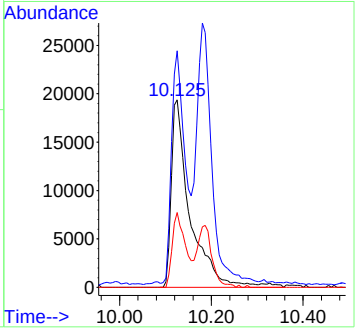


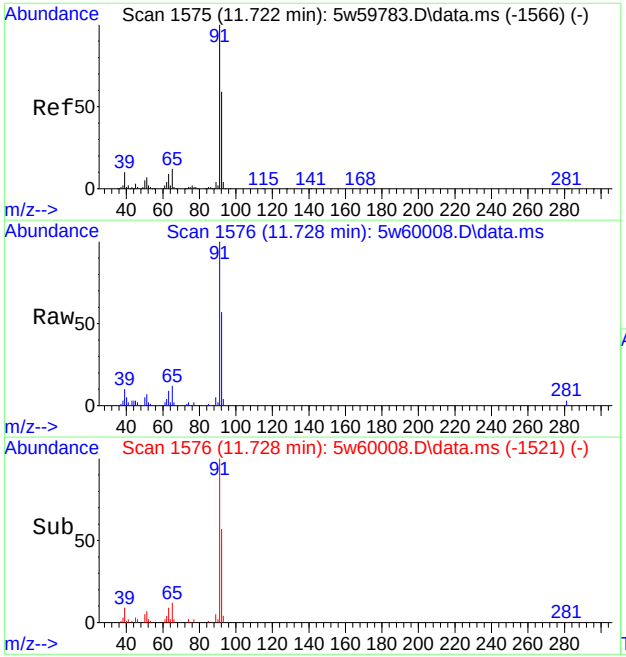


#63
METHYL METHACRYLATE
Concen: 1.15 PPBV
RT: 10.125 min Scan# 1314
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 69 Resp: 55112

Ion	Ratio	Lower	Upper
69	100		
41	90.0	95.3	155.3#
100	29.5	6.3	66.3

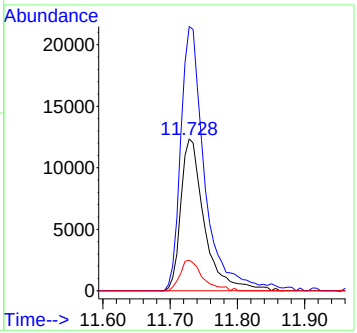


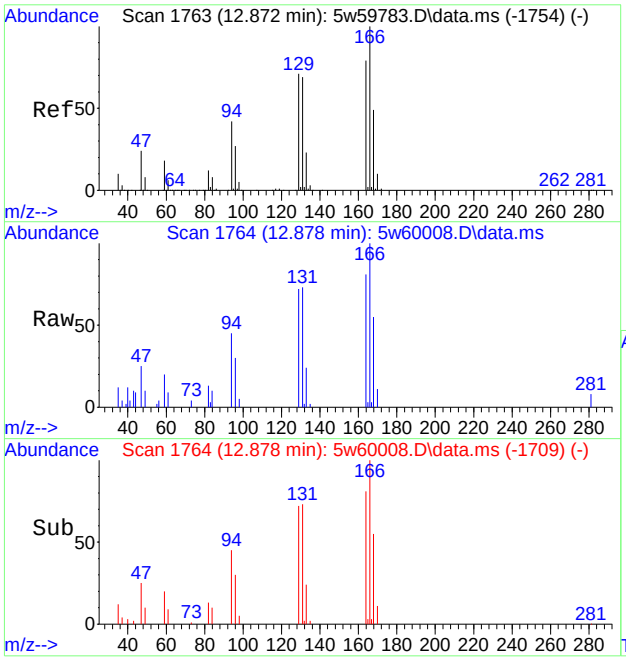


#66
TOLUENE
Concen: 0.28 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 92 Resp: 30163

Ion	Ratio	Lower	Upper
92	100		
91	177.8	140.1	200.1
65	19.2	0.0	53.1

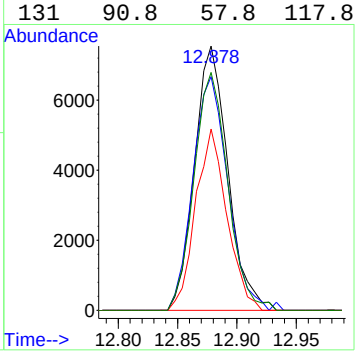


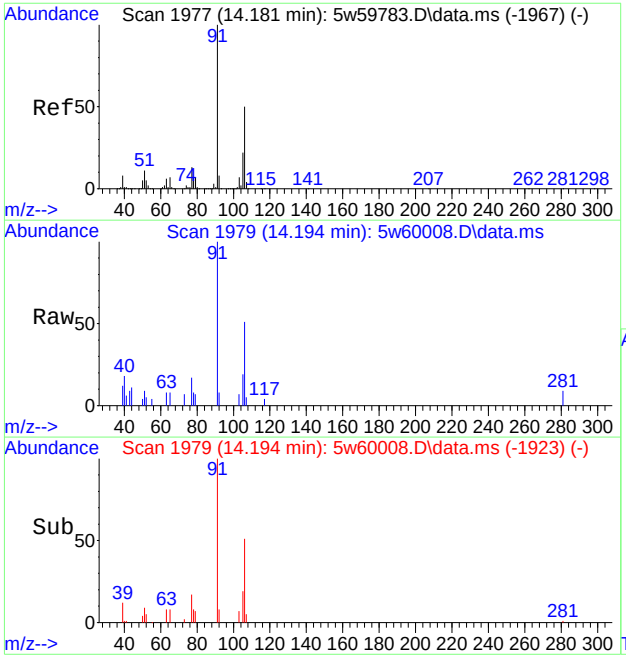


#73
TETRACHLOROETHYLENE
Concen: 0.20 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:164 Resp: 14795

Ion	Ratio	Lower	Upper
164	100		
129	92.6	59.7	119.7
168	64.1	32.2	92.2
131	90.8	57.8	117.8

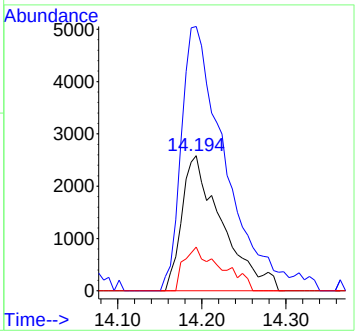




#80
m,p-XYLENE
Concen: 0.10 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:106 Resp: 8586

Ion	Ratio	Lower	Upper
106	100		
91	195.5	171.0	231.0
77	32.4	0.0	56.7



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

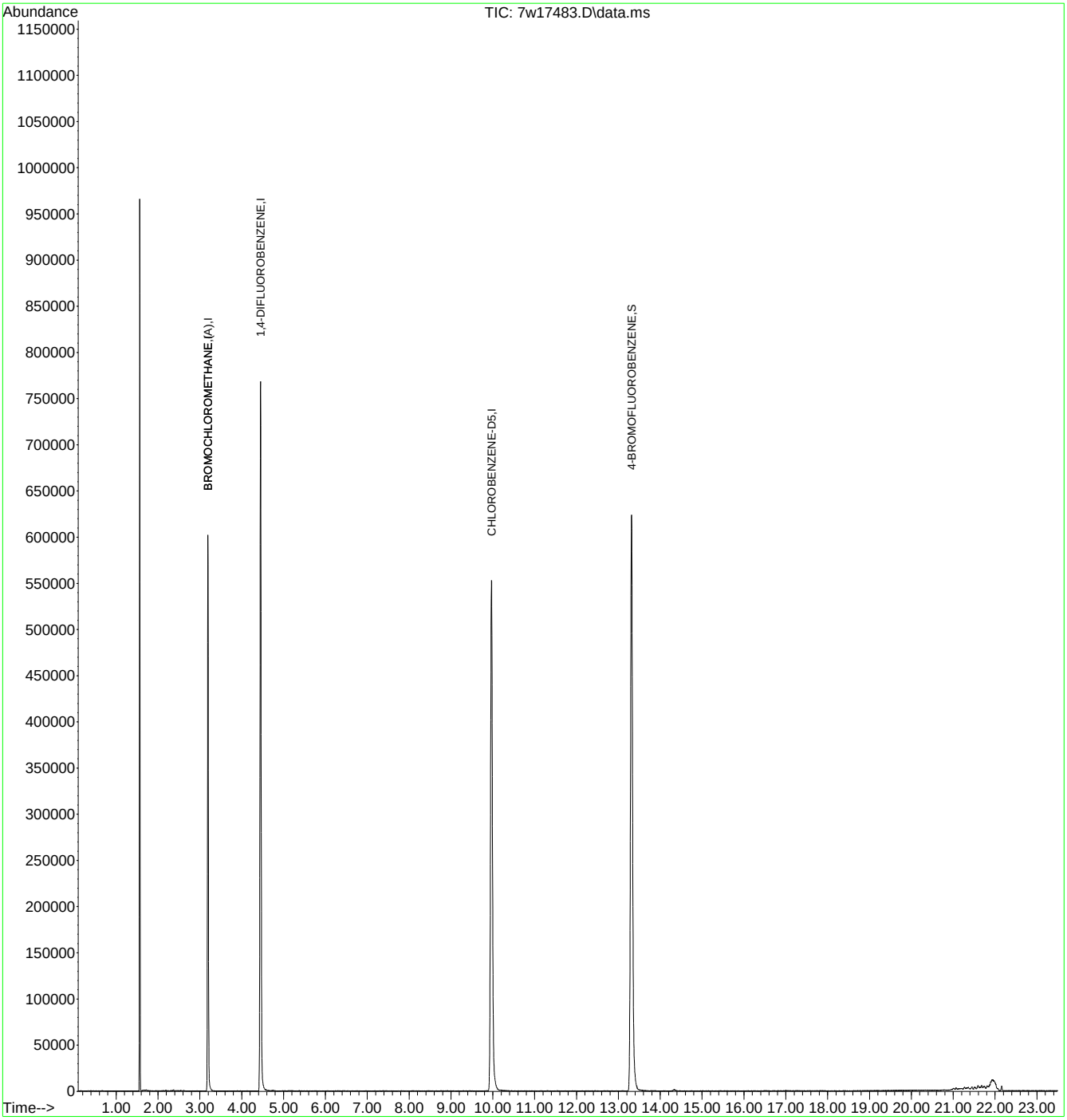
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	122841	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	609530	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	568575	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	122841	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	430277	9.40	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

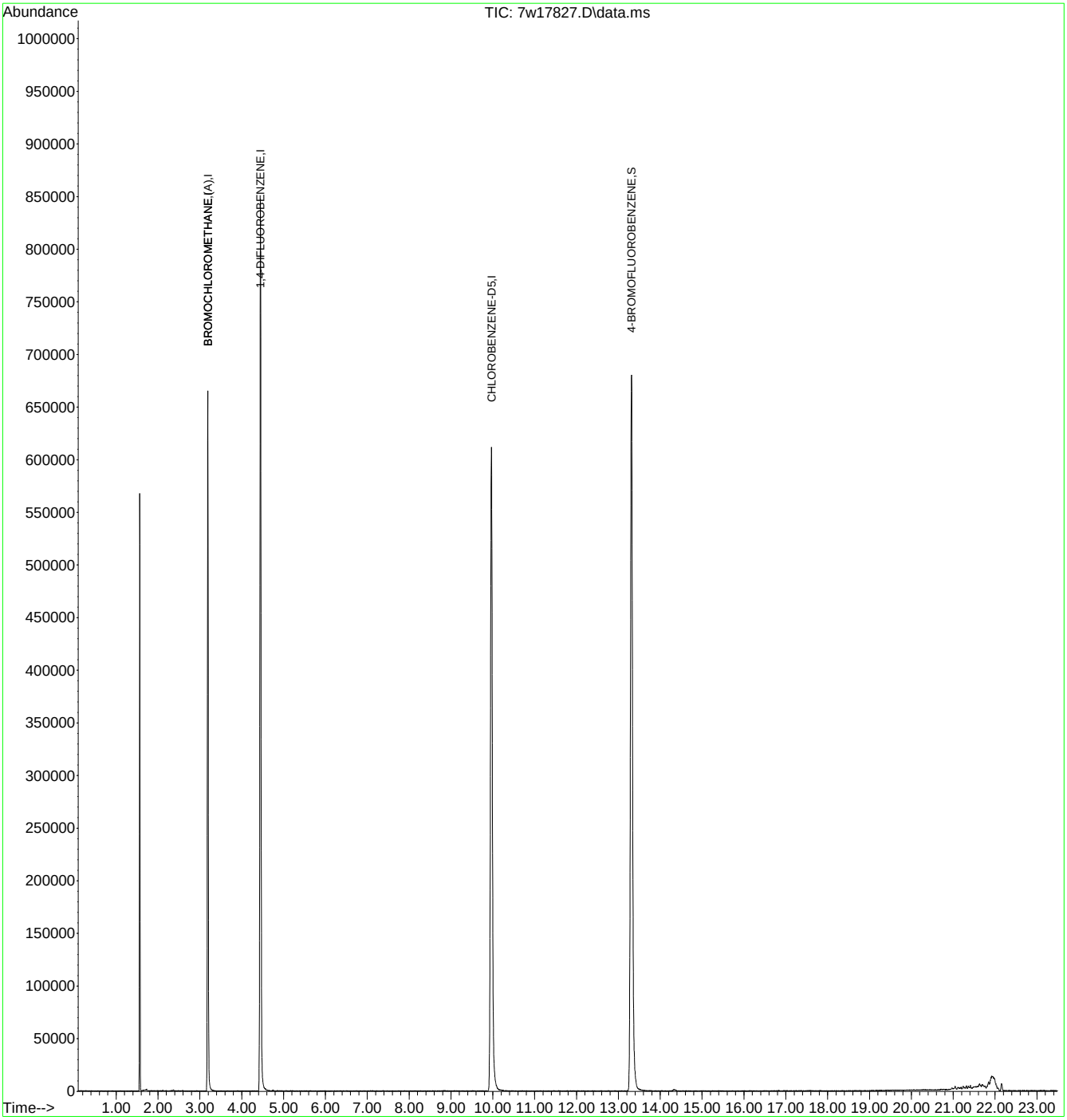
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	133491	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659279	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	611978	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133491	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	469303	9.52	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

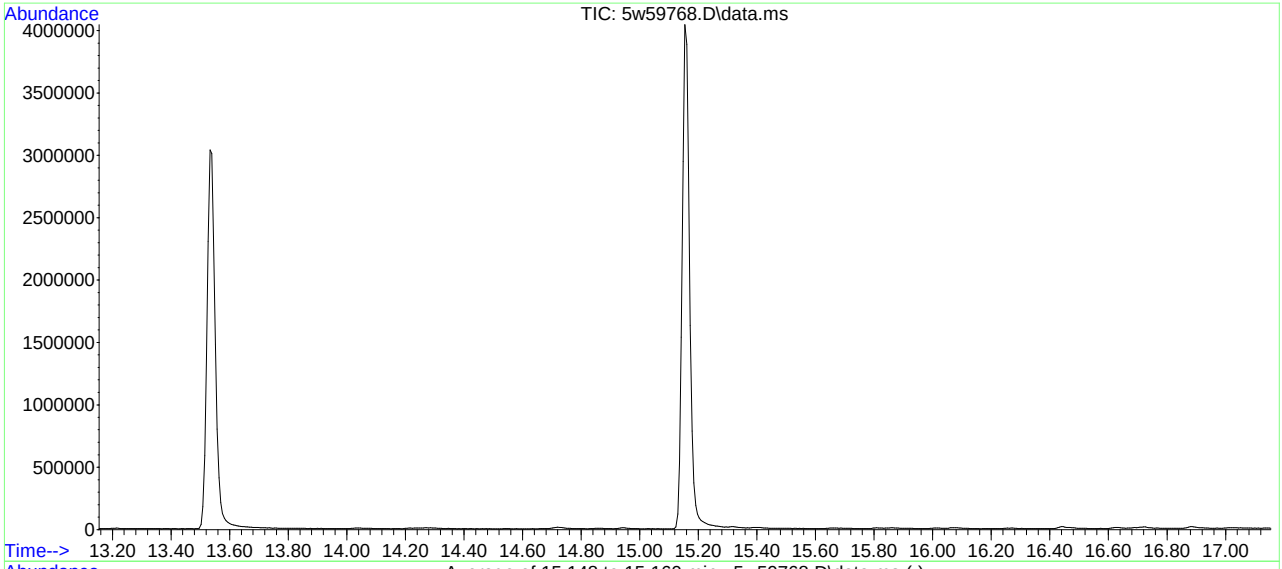
Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



BFB

Data File : C:\msdchem\1\data\5w\5w59768.D Vial: 2
Acq On : 6 Nov 2025 9:59 pm Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5wBFB.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	135749	PASS
75	95	30	66	46.4	334528	PASS
95	95	100	100	100.0	720341	PASS
96	95	5	9	6.9	49469	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.0	662677	PASS
175	174	4	9	7.8	51795	PASS
176	174	93	101	99.2	657579	PASS
177	176	5	9	6.9	45267	PASS

5w59768.D M5wBFB.M Fri Nov 07 21:29:07 2025

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	5545	48.00	3946	61.05	32339	74.05	112597
37.10	30280	49.05	27840	62.10	32435	75.05	334528
38.10	26987	50.10	135749	63.10	24125	76.10	29141
39.10	10667	51.05	41606	64.05	2305	77.00	4066
40.00	348	52.05	1737	67.05	1826	78.00	3098
41.05	175	55.05	2016	68.00	72219	78.90	24720
43.00	450	56.05	10826	69.00	70581	80.00	6986
44.00	3502	57.05	20024	70.00	5326	80.90	25387
45.10	6092	58.05	889	71.10	296	81.95	5504
46.05	426	59.10	145	72.05	3398	82.95	490
47.10	8871	60.00	6445	73.00	28839	86.05	874

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	35085	104.90	1175	118.90	3821	133.90	92
88.00	33645	105.95	3347	121.90	77	134.95	1334
90.95	2907	106.95	762	123.00	102	135.95	160
92.00	19285	109.95	420	123.90	511	136.90	1385
93.00	29085	110.95	751	124.95	264	138.95	431
94.00	80680	111.95	485	125.90	315	139.90	588
95.05	720341	112.90	723	126.95	311	141.00	7227
96.05	49469	114.95	770	127.95	2733	141.90	954
97.05	1483	115.90	2767	128.95	1406	143.00	7195
102.90	330	116.95	4700	129.90	2746	143.95	411
103.95	3663	117.90	2744	130.90	1002	144.95	616

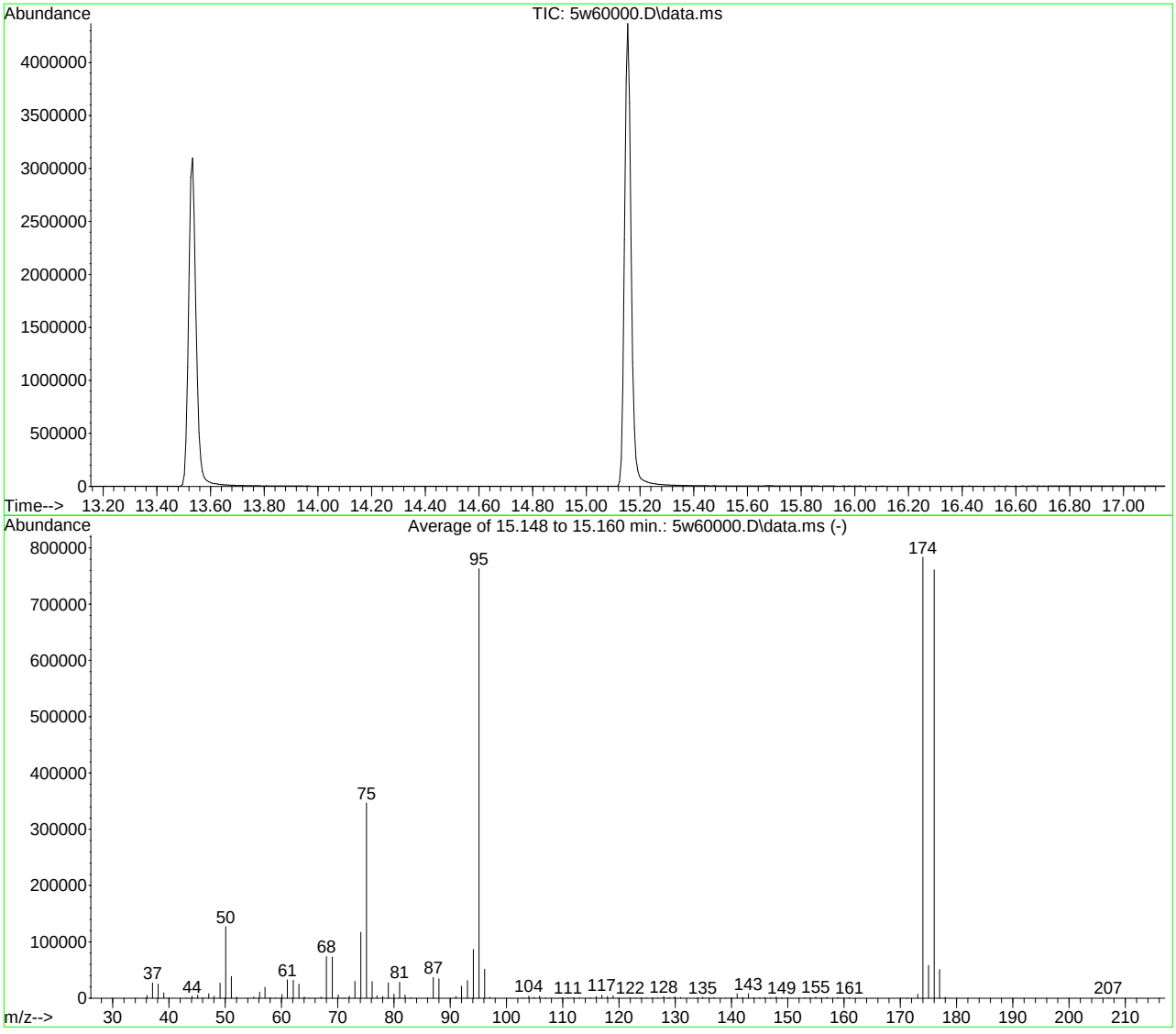
Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.90	1065	158.00	77	177.95	1268		
146.95	543	158.90	800	207.00	73		
147.95	1676	160.95	830	262.10	64		
148.95	564	168.05	273	267.00	88		
149.90	853	169.15	140	296.00	119		
151.90	371	170.10	70				
152.95	529	170.95	154				
153.95	452	174.00	662677				
154.95	1955	175.00	51795				
155.90	102	176.00	657579				
156.95	1271	177.00	45267				

BFB

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60000.D Vial: 1
Acq On : 24 Nov 2025 9:12 am Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	126995	PASS
75	95	30	66	45.5	346987	PASS
95	95	100	100	100.0	763029	PASS
96	95	5	9	6.7	51400	PASS
173	174	0.00	2	0.9	6908	PASS
174	95	50	120	102.7	783595	PASS
175	174	4	9	7.4	58229	PASS
176	174	93	101	97.1	761195	PASS
177	176	5	9	6.7	50824	PASS

5w60000.D M5w2292.M Tue Nov 25 23:08:37 2025

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	4650	49.10	26525	62.10	31869	74.10	117019
37.10	27331	50.10	126995	63.10	24912	75.10	346987
38.10	24979	51.10	38837	64.05	2223	76.10	29517
39.10	9324	52.05	1658	65.00	241	77.00	4337
40.00	204	55.05	1920	67.05	1906	78.00	3156
43.05	281	56.10	10853	68.00	73867	79.00	27331
44.10	3527	57.10	19475	69.05	73197	80.00	7302
45.10	5492	58.05	758	70.10	5545	81.00	28117
46.05	417	58.90	105	71.10	91	81.95	5771
47.10	8187	60.10	6537	72.05	3589	83.00	606
48.05	3627	61.05	32525	73.05	29765	86.00	841

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	36965	104.90	1240	118.95	4253	130.95	1208
88.00	34704	105.90	3734	120.00	67	133.90	164
91.00	3137	106.95	790	122.00	69	134.90	1543
92.00	21184	109.90	548	122.95	268	136.00	273
93.05	31387	110.95	694	123.90	547	136.90	1399
94.10	86395	111.90	555	124.95	239	138.95	311
95.10	763029	112.95	714	125.95	349	139.95	560
96.10	51400	114.90	873	126.90	319	141.00	7918
97.05	1522	115.95	3019	127.95	3130	141.95	985
102.95	392	116.95	5208	128.95	1381	143.00	8168
103.95	3865	117.95	3230	129.90	3066	143.90	507

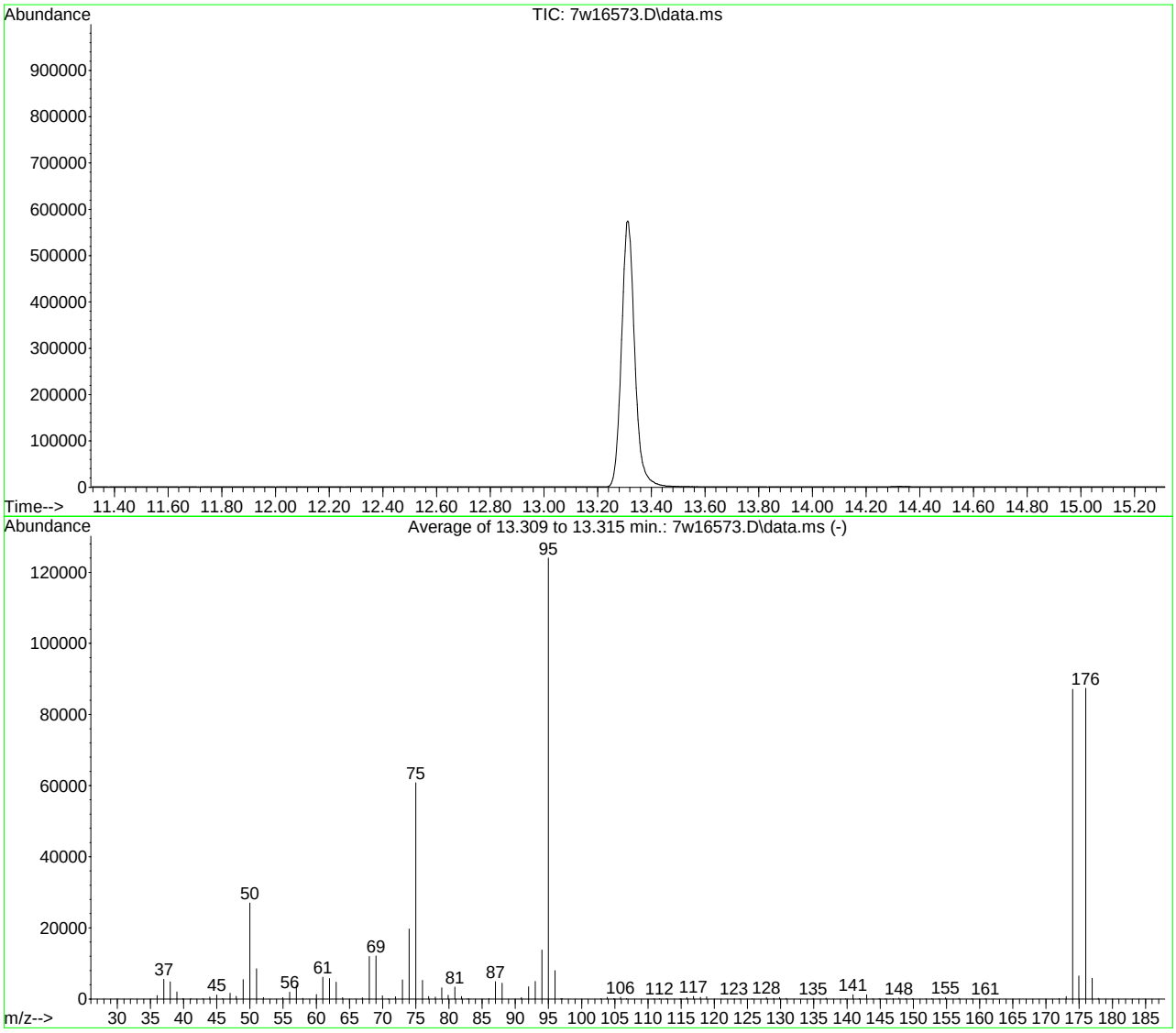
Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.00	756	156.95	1491				
145.90	1168	158.90	960				
146.95	496	160.95	1022				
147.95	2087	171.20	121				
148.95	494	173.10	6908				
149.95	844	174.00	783595				
151.95	343	175.00	58229				
153.00	621	176.00	761195				
153.95	558	177.00	50824				
154.95	2182	178.00	1438				
155.95	294	207.00	83				

BFB

Data File : C:\msdchem\1\data\GCMS7W\7w16573.D Vial: 1
Acq On : 7 Aug 2025 2:05 am Operator: benk
Sample : bfb Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7wbfb.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.8	26979	PASS
75	95	30	66	49.0	60811	PASS
95	95	100	100	100.0	123992	PASS
96	95	5	9	6.4	7953	PASS
173	174	0.00	2	0.8	724	PASS
174	95	50	120	70.2	87088	PASS
175	174	4	9	7.5	6502	PASS
176	174	93	101	100.3	87355	PASS
177	176	5	9	6.7	5835	PASS

7w16573.D M7wbfb.M Thu Aug 07 19:41:55 2025

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1003	47.95	740	62.00	5766	75.00	60811
37.00	5547	49.00	5430	63.00	4750	76.00	5229
38.00	4772	50.00	26979	63.95	424	76.95	708
39.00	2026	51.00	8474	66.95	299	77.95	540
39.90	124	52.05	389	68.00	11924	78.90	3135
41.10	25	54.95	396	69.00	12070	79.90	1017
42.90	41	56.00	1901	69.95	941	80.90	3372
43.95	582	57.00	3847	70.85	48	81.90	685
45.00	1100	57.95	166	71.95	619	82.80	43
45.90	98	60.00	1293	73.00	5387	83.00	36
47.00	1625	61.00	6112	74.00	19688	86.05	112

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	4905	103.85	440	118.85	584	140.90	1229
88.00	4464	104.85	140	123.00	27	141.85	127
90.90	435	105.85	490	123.85	46	142.95	1190
92.00	3416	106.75	134	125.70	18	143.85	47
93.00	4959	110.85	68	127.85	413	144.85	107
94.00	13797	111.75	95	128.95	195	145.80	112
95.00	123992	112.80	80	129.85	393	146.95	49
96.00	7953	114.85	127	130.85	195	147.85	242
96.90	94	115.85	424	134.90	189	148.85	86
97.05	108	116.85	766	136.85	220	149.85	102
102.90	18	117.90	451	139.80	24	151.90	32

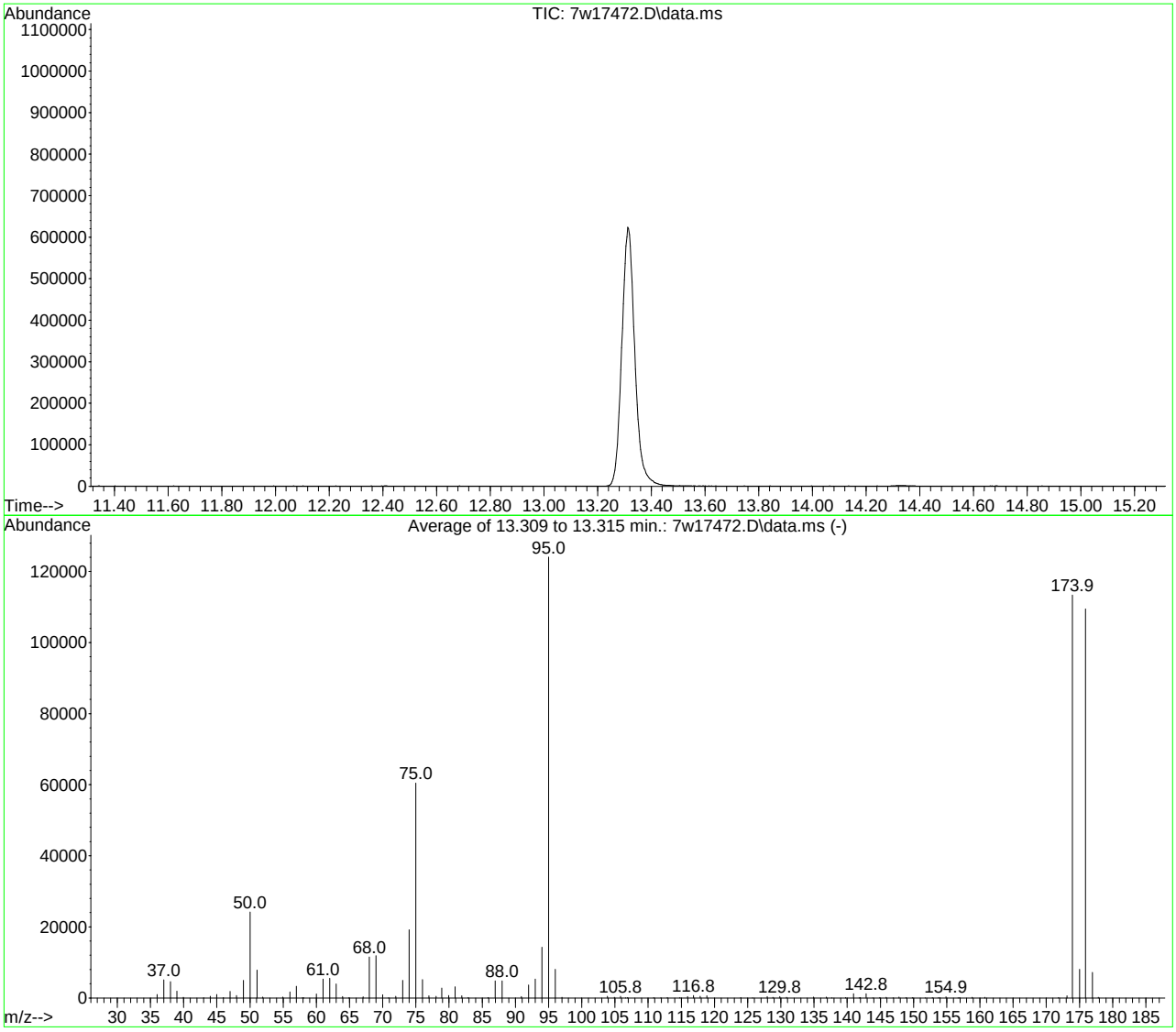
Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.80	91	176.95	5835				
153.85	70	177.90	218				
154.85	324						
156.85	216						
158.80	101						
160.90	114						
171.95	93						
173.05	724						
174.00	87088						
174.95	6502						
176.00	87355						

BFB

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17472.D Vial: 1
Acq On : 26 Sep 2025 10:25 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	24211	PASS
75	95	30	66	48.8	60491	PASS
95	95	100	100	100.0	124040	PASS
96	95	5	9	6.5	8048	PASS
173	174	0.00	2	0.6	644	PASS
174	95	50	120	91.4	113392	PASS
175	174	4	9	7.1	8039	PASS
176	174	93	101	96.6	109491	PASS
177	176	5	9	6.6	7193	PASS

7w17472.D M7W577.M Mon Sep 29 17:06:33 2025

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	994	49.00	4950	62.00	5501	74.00	19179
37.00	5126	50.00	24211	63.00	3974	75.00	60491
38.00	4613	51.05	7854	63.95	379	76.00	5147
39.00	1932	51.90	257	64.90	32	76.95	609
39.95	151	54.95	267	67.05	309	78.05	463
43.00	44	56.00	1686	68.00	11538	78.90	2810
44.00	503	57.00	3259	69.00	11858	79.95	727
45.00	1015	57.90	119	70.00	932	80.90	3140
46.00	92	58.10	23	70.90	21	81.90	597
47.00	1841	60.00	1139	71.95	510	82.90	78
47.95	717	61.00	5344	73.00	4973	85.85	98

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	4797	105.85	510	123.95	77	141.80	28
88.00	4809	106.60	20	125.75	39	141.95	105
90.90	382	106.90	116	127.95	391	142.85	1231
92.00	3682	110.85	88	128.80	181	143.85	52
93.00	5316	111.90	44	129.85	412	144.90	88
94.00	14286	112.90	99	130.85	210	145.85	149
95.00	124040	114.80	128	134.90	238	146.90	68
96.00	8048	115.95	365	136.85	239	147.80	291
97.00	215	116.85	679	137.70	22	148.85	103
103.85	482	117.85	469	139.75	93	149.80	113
104.90	165	118.85	609	140.95	1166	151.75	39

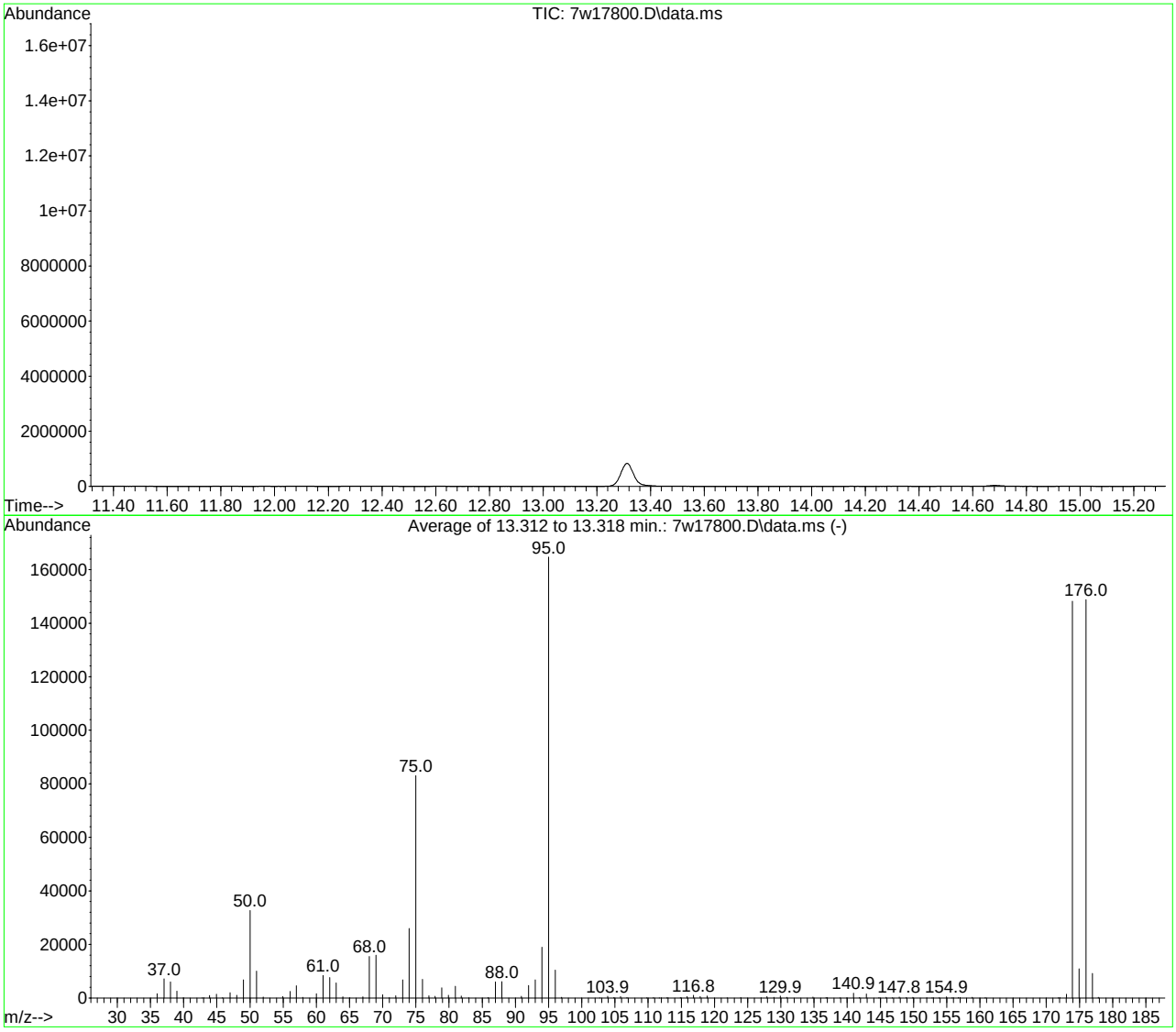
Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.85	109	175.00	8039				
153.75	100	175.90	109491				
154.00	27	176.95	7193				
154.90	329	177.85	205				
156.70	41						
156.95	84						
158.85	175						
160.75	178						
171.85	118						
173.10	644						
173.95	113392						

BFB

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17800.D Vial: 4
Acq On : 13 Oct 2025 10:41 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4113, 4114, 4115; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.8	32653	PASS
75	95	30	66	50.4	83059	PASS
95	95	100	100	100.0	164693	PASS
96	95	5	9	6.3	10435	PASS
173	174	0.00	2	0.9	1376	PASS
174	95	50	120	90.0	148181	PASS
175	174	4	9	7.4	10927	PASS
176	174	93	101	100.4	148821	PASS
177	176	5	9	6.2	9210	PASS

7w17800.D M7W577.M Mon Oct 13 21:32:02 2025

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1548	48.00	998	62.00	7648	74.00	25928
37.05	7146	49.00	6797	63.00	5647	75.00	83059
38.00	6017	50.00	32653	64.00	469	76.00	6950
39.00	2546	51.00	10056	65.05	77	76.95	868
39.95	76	52.00	373	67.00	420	77.90	624
42.80	54	54.95	497	68.00	15526	78.90	3753
43.05	93	56.05	2421	69.00	16030	79.90	1027
43.90	913	57.00	4596	70.00	1185	80.95	4363
44.95	1374	57.95	241	71.00	23	81.85	687
45.85	94	60.00	1599	71.95	837	82.95	81
47.00	1988	61.00	8422	73.00	6766	85.85	192

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	6024	104.85	174	116.85	972	136.80	132
87.95	6118	105.85	560	117.85	490	137.00	170
90.90	612	106.80	151	118.90	774	138.90	18
92.00	4652	109.80	57	121.90	30	139.95	66
93.00	6777	110.80	117	123.95	114	140.95	1778
94.00	18955	111.70	57	127.00	18	141.85	181
95.00	164693	112.00	28	127.90	524	142.90	1542
96.00	10435	112.80	81	128.95	268	144.80	153
96.95	293	113.00	43	129.90	709	145.85	237
102.70	47	114.85	180	130.90	269	146.80	75
103.90	664	115.85	548	134.85	315	147.85	387

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.90	132	158.85	205				
149.90	249	160.80	198				
152.00	18	171.80	84				
152.80	36	172.05	152				
153.00	89	173.05	1376				
153.85	77	173.95	148181				
154.95	434	174.95	10927				
155.80	23	176.00	148821				
156.00	23	176.95	9210				
156.75	173	177.85	232				
157.00	105						

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	470818	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2113713	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1047801	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	474427	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1393397	10.72	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 107.20%				
Target Compounds							Qvalue
2) FREON 115	3.378	119	1822	0.06	PPBV		95
3) FREON 152A	3.457	65	2398	0.07	PPBV		97
4) CHLORODIFLUOROMETHANE	3.482	67	522	0.04	PPBV	#	44
5) CHLOROTRIFLUOROETHENE	3.512	116	3060	0.04	PPBV		95
6) DICHLORODIFLUOROMETHANE	3.555	85	5958	0.04	PPBV		95
7) PROPYLENE	3.512	41	2388m	0.07	PPBV		
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	5550m	0.05	PPBV		
9) FREON 114	3.732	85	6084	0.05	PPBV		93
10) CHLOROMETHANE	3.671	52	845	0.06	PPBV	#	32
11) VINYL CHLORIDE	3.824	62	2035	0.05	PPBV	#	39
12) 1,3-BUTADIENE	3.928	54	1523	0.06	PPBV	#	42
13) n-BUTANE	3.953	43	2825m	0.07	PPBV		
14) BROMOMETHANE	4.112	94	2464	0.05	PPBV	#	53
15) CHLOROETHANE	4.234	64	1697m	0.08	PPBV		
16) DICHLOROFLUOROMETHANE	4.301	67	4942	0.05	PPBV	#	84
17) ACETONITRILE	4.534	41	1278	0.05	PPBV	#	61
18) ACROLEIN	4.620	56	728m	0.05	PPBV		
19) FREON 123	4.607	83	6421	0.06	PPBV		76
20) FREON 123A	4.644	117	3274	0.05	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	5153	0.05	PPBV	#	77
22) ISOPROPYL ALCOHOL	4.938	45	5219m	0.06	PPBV		
23) ACETONE	4.730	58	1951	0.11	PPBV		95
24) PENTANE	5.084	42	3370	0.08	PPBV		76
25) IODOMETHANE	5.256	142	6273	0.04	PPBV		87
26) 1,1-DICHLOROETHYLENE	5.323	96	2915	0.06	PPBV	#	58
27) CARBON DISULFIDE	5.684	76	5982	0.05	PPBV		90
28) ETHANOL	4.350	45	2592	0.17	PPBV		78
29) BROMOETHENE	4.491	106	2283	0.05	PPBV	#	64
30) ACRYLONITRILE	5.109	52	1514	0.05	PPBV	#	71
31) METHYLENE CHLORIDE	5.427	84	2871	0.06	PPBV		97
32) 3-CHLOROPROPENE	5.537	76	1170	0.05	PPBV	#	68
33) FREON 113	5.647	151	3628	0.04	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.253	96	2781m	0.05	PPBV		
35) TERTIARY BUTYL ALCOHOL	5.482	59	3750	0.04	PPBV		78
36) METHYL TERTIARY BUTYL ...	6.565	73	7842	0.06	PPBV		90
38) HEXANE	7.385	57	3894	0.05	PPBV		89
40) 1,1-DICHLOROETHANE	6.436	63	5305	0.06	PPBV		94
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3901	0.07	PPBV	#	54
43) DIISOPROPYL ETHER	7.458	59	536	0.03	PPBV	#	1
44) ETHYL ACETATE	7.207	61	3226	0.23	PPBV	#	1
45) METHYL ACRYLATE	7.397	55	878	0.01	PPBV	#	65
46) CHLOROFORM	7.489	83	4783	0.05	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	8.229	57	4175	0.05	PPBV		91
48) 1,1,1-TRICHLOROETHANE	8.413	97	4728	0.04	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	4970	0.04	PPBV		99
50) 1,2-DICHLOROETHANE	8.192	62	3147	0.04	PPBV	#	73
52) BENZENE	8.871	78	6471	0.05	PPBV		84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

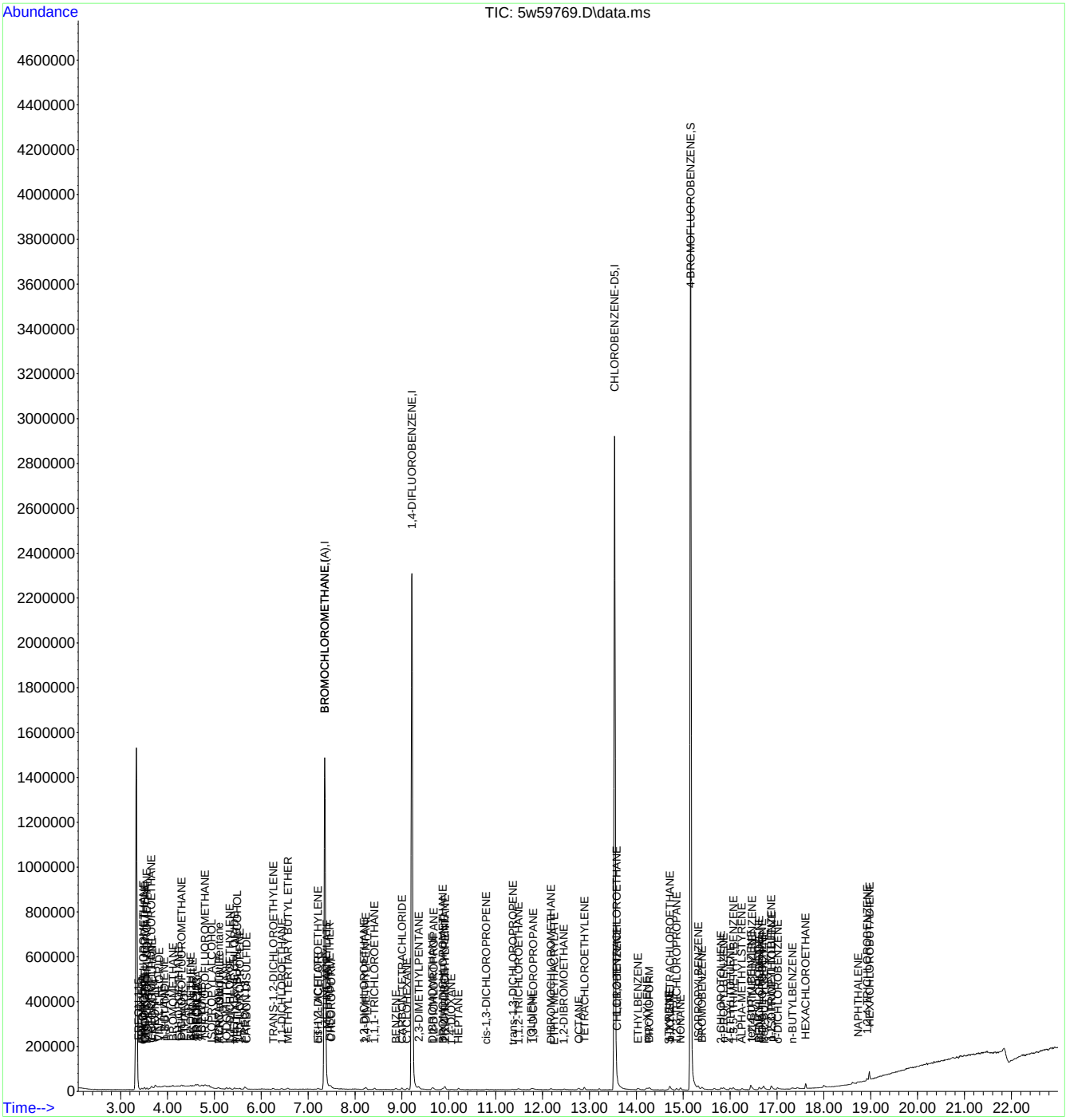
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) CYCLOHEXANE	9.104	84	2517	0.04	PPBV		86
54) 2,3-DIMETHYLPENTANE	9.361	71	1176	0.04	PPBV	#	68
55) TRICHLOROETHYLENE	9.905	95	2913	0.04	PPBV		91
56) 1,2-DICHLOROPROPANE	9.673	63	3887m	0.06	PPBV		
57) DIBROMOMETHANE	9.648	174	3768	0.05	PPBV		94
59) BROMODICHLOROMETHANE	9.869	83	4912	0.04	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	9.917	57	10699	0.05	PPBV		97
61) 1,4-DIOXANE	10.052	88	1059	0.03	PPBV	#	1
62) HEPTANE	10.205	43	4522	0.06	PPBV		88
65) cis-1,3-DICHLOROPROPENE	10.792	75	4969	0.05	PPBV		77
66) TOLUENE	11.759	92	4059	0.04	PPBV		84
67) 1,3-DICHLOROPROPANE	11.796	76	3478	0.04	PPBV	#	53
68) trans-1,3-DICHLOROPROPENE	11.361	75	4586	0.05	PPBV		80
69) 1,1,2-TRICHLOROETHANE	11.484	83	2006	0.03	PPBV		89
72) ETHYL METHACRYLATE	12.248	69	735	0.01	PPBV	#	1
73) TETRACHLOROETHYLENE	12.891	164	3089	0.04	PPBV		89
74) DIBROMOCHLOROMETHANE	12.181	129	5067	0.04	PPBV		93
75) 1,2-DIBROMOETHANE	12.450	107	3668	0.04	PPBV	#	91
76) OCTANE	12.768	43	6243m	0.07	PPBV		
77) 1,1,1,2-TETRACHLOROETHANE	13.576	131	3434	0.04	PPBV		95
78) CHLOROBENZENE	13.588	112	6320	0.05	PPBV	#	50
79) ETHYLBENZENE	14.035	91	9593	0.05	PPBV		86
80) m,p-XYLENE	14.224	106	6608	0.08	PPBV	#	91
81) o-XYLENE	14.714	106	3154	0.04	PPBV	#	64
82) STYRENE	14.695	104	3881	0.03	PPBV		84
83) NONANE	14.940	43	5771	0.06	PPBV		90
84) BROMOFORM	14.273	173	4371	0.04	PPBV	#	93
86) 1,1,2,2-TETRACHLOROETHANE	14.714	83	5918	0.05	PPBV		95
87) 1,2,3-TRICHLOROPROPANE	14.854	75	5967	0.06	PPBV		74
88) ISOPROPYLBENZENE	15.319	105	9953	0.04	PPBV		87
89) BROMOBENZENE	15.399	77	5423	0.05	PPBV		89
90) 2-CHLOROTOLUENE	15.803	126	2313	0.04	PPBV		63
91) n-PROPYLBENZENE	15.858	120	2252	0.04	PPBV	#	61
92) 4-ETHYLTOLUENE	16.005	105	7489m	0.04	PPBV		
93) 1,3,5-TRIMETHYLBENZENE	16.066	105	9751m	0.05	PPBV		
94) ALPHA-METHYLSTYRENE	16.249	118	2895	0.03	PPBV		87
95) tert-BUTYLBENZENE	16.445	134	1525	0.04	PPBV	#	63
96) 1,2,4-TRIMETHYLBENZENE	16.470	105	8180	0.05	PPBV	#	29
97) m-DICHLOROBENZENE	16.622	146	4669	0.03	PPBV		89
98) BENZYL CHLORIDE	16.622	91	4703	0.03	PPBV		83
99) p-DICHLOROBENZENE	16.684	146	6829m	0.05	PPBV		
100) sec-BUTYLBENZENE	16.714	134	2023	0.04	PPBV	#	72
101) 1,2,3-TRIMETHYLBENZENE	16.873	105	8480	0.04	PPBV		93
102) p-ISOPROPYLTOLUENE	16.886	134	2164	0.04	PPBV	#	60
103) o-DICHLOROBENZENE	17.014	146	5480	0.04	PPBV		94
104) n-BUTYLBENZENE	17.332	134	1780	0.03	PPBV	#	47
105) HEXACHLOROETHANE	17.607	117	4357	0.05	PPBV		95
106) HEXACHLOROBUTADIENE	18.972	225	5840	0.05	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.923	180	5141	0.04	PPBV		96
108) NAPHTHALENE	18.727	128	11614m	0.04	PPBV		
110) TVHC as equiv Pentane	5.097	TIC	13430m	0.05	PPBV		

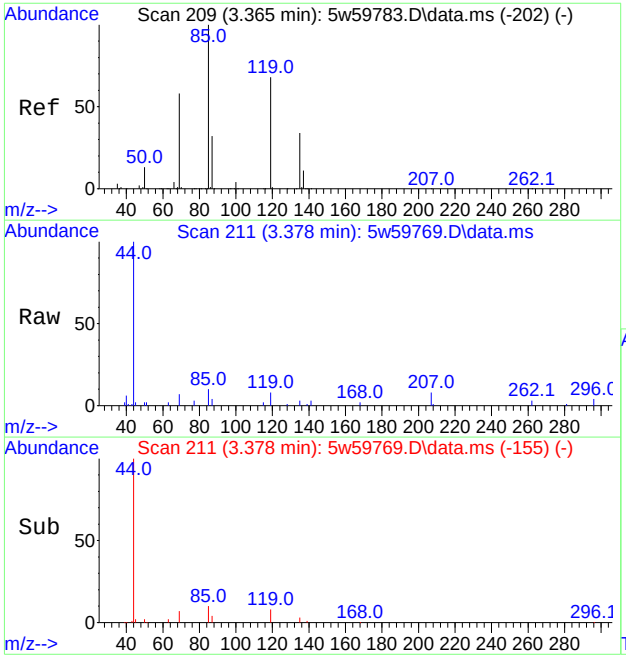
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

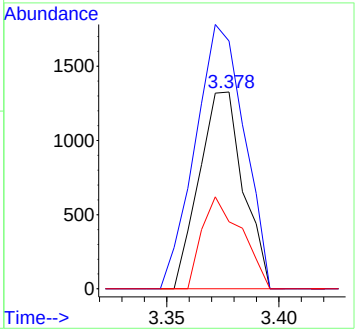


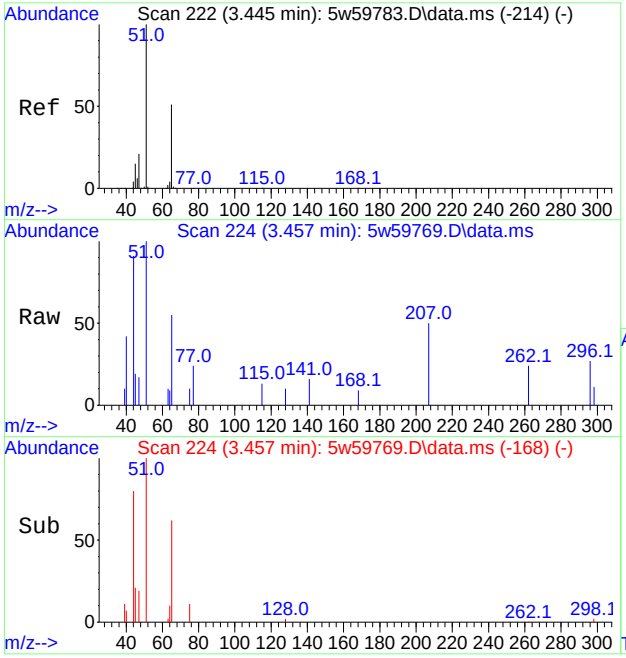


#2
FREON 115
Concen: 0.06 PPBV
RT: 3.378 min Scan# 211
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:119 Resp: 1822

Ion	Ratio	Lower	Upper
119	100		
85	149.2	116.2	176.2
135	41.9	20.6	80.6

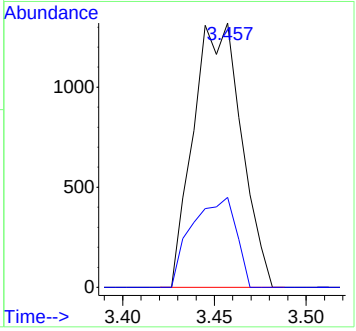


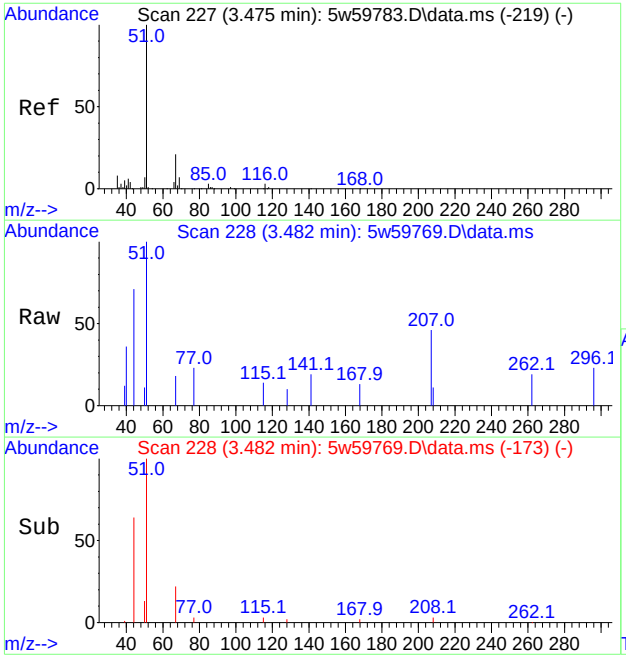


#3
FREON 152A
Concen: 0.07 PPBV
RT: 3.457 min Scan# 224
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 2398

Ion	Ratio	Lower	Upper
65	100		
45	31.4	0.0	60.0

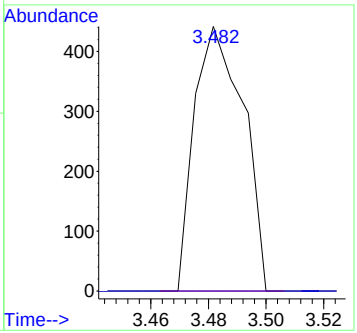


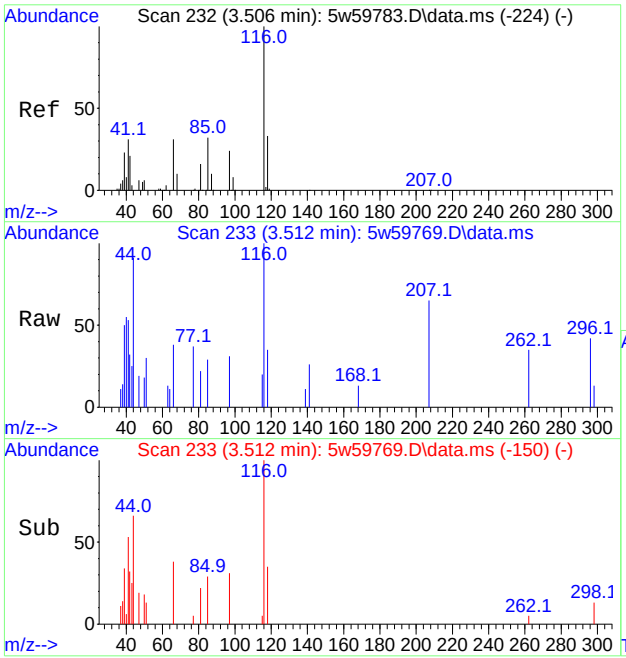


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 522

Ion	Ratio	Lower	Upper
67	100		
69	0.0	1.0	61.0#

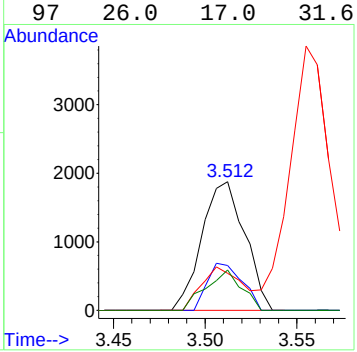


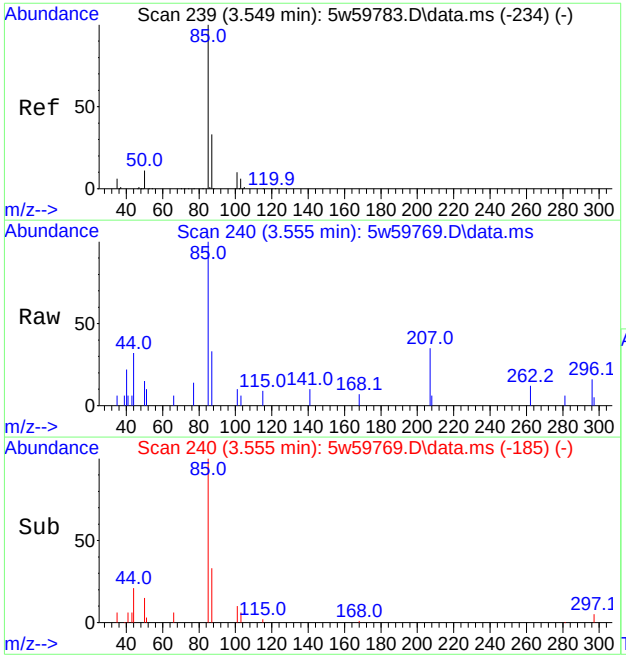


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 3.512 min Scan# 233
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:116 Resp: 3060

Ion	Ratio	Lower	Upper
116	100		
118	29.7	22.9	42.5
85	31.1	23.7	44.1
97	26.0	17.0	31.6

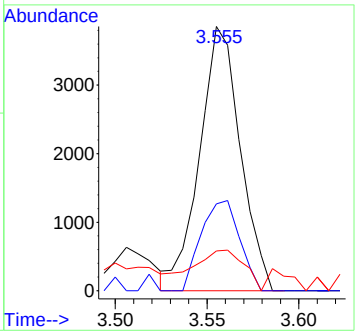


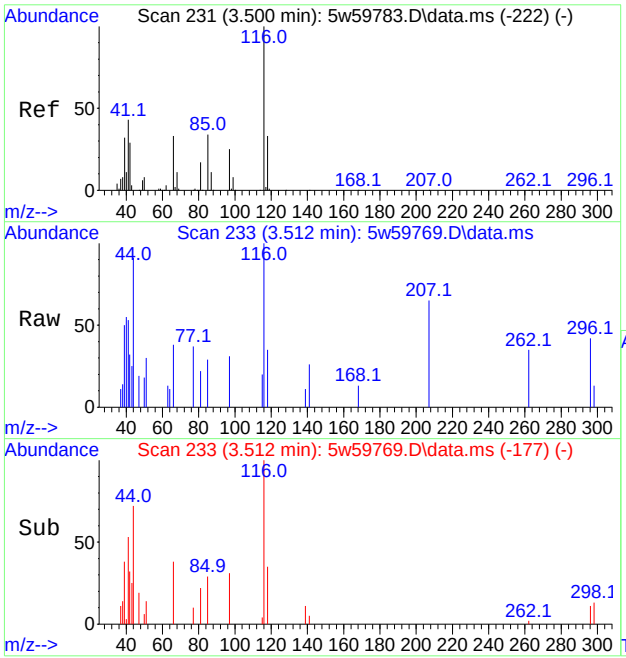


#6
DICHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 5958

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	18.7	0.0	41.7

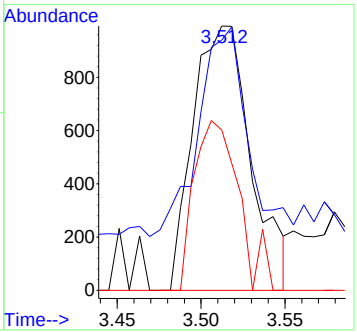


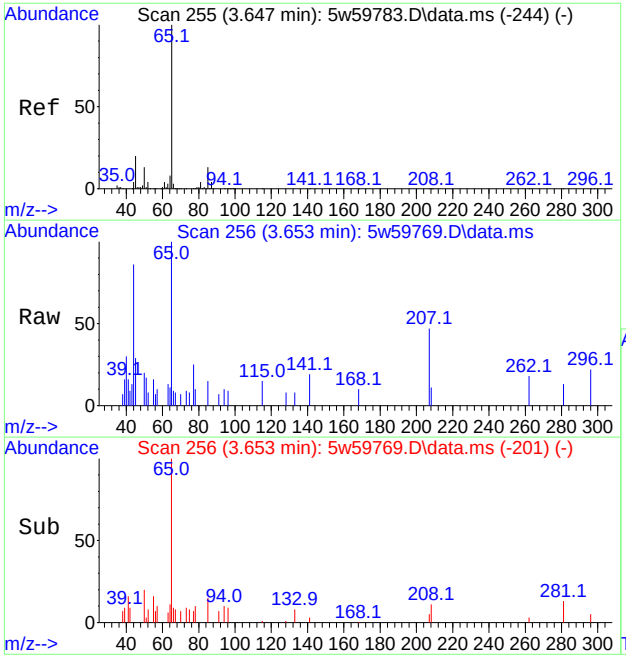


#7
PROPYLENE
Concen: 0.07 PPBV m
RT: 3.512 min Scan# 233
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 2388

Ion	Ratio	Lower	Upper
41	100		
39	236.5	45.1	105.1#
42	49.5	36.3	96.3

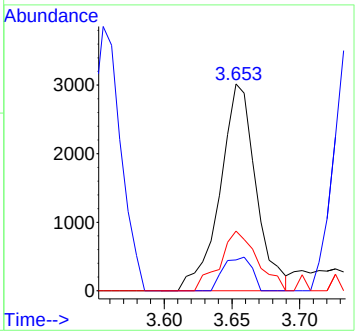


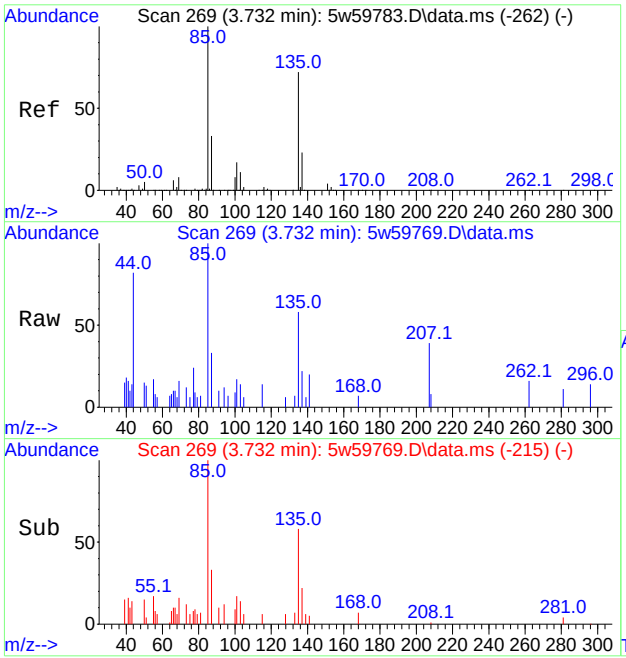


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.05 PPBV m
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 5550

Ion	Ratio	Lower	Upper
65	100		
85	12.9	11.5	21.3
45	30.0	14.0	26.0#

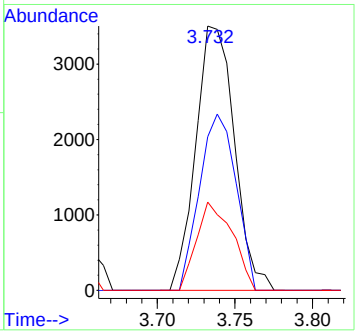


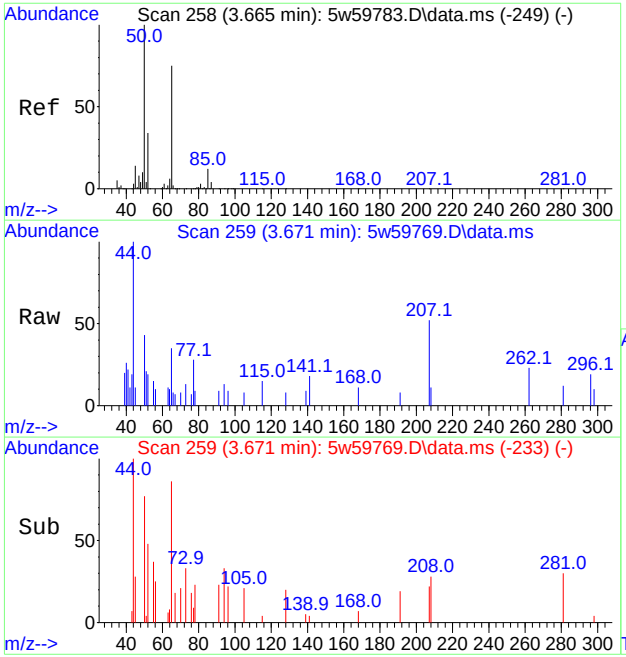


#9
FREON 114
Concen: 0.05 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 6084

Ion	Ratio	Lower	Upper
85	100		
135	63.0	40.5	100.5
87	30.9	3.0	63.0

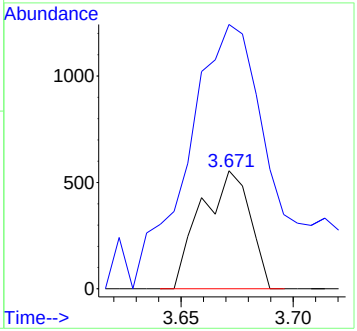


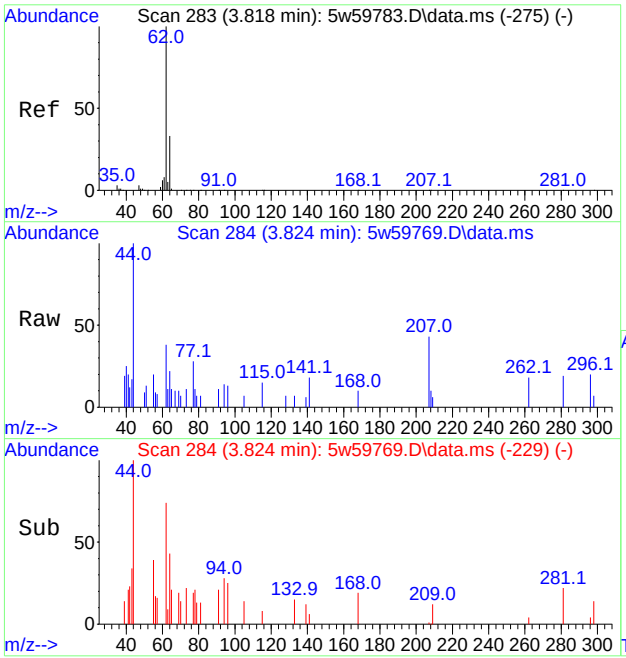


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 3.671 min Scan# 259
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 845

Ion	Ratio	Lower	Upper
52	100		
50	165.1	267.9	327.9#

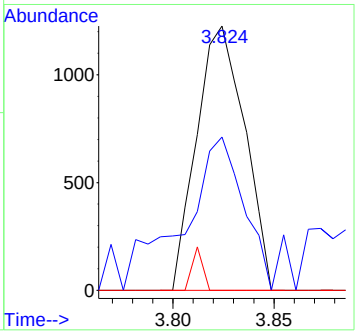


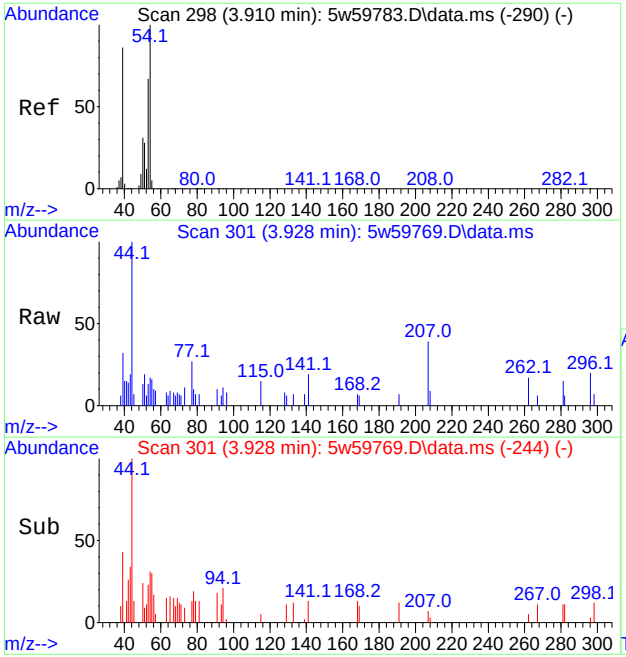


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 3.824 min Scan# 284
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 2035

Ion	Ratio	Lower	Upper
62	100		
64	73.5	3.6	63.6#
61	0.0	0.0	38.2

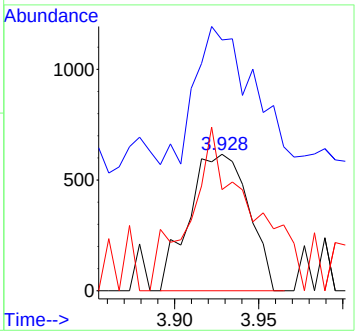


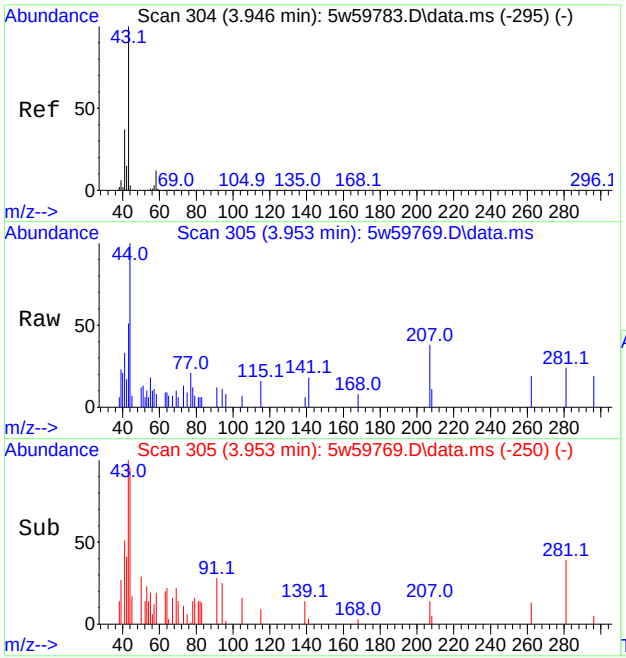


#12
1,3-BUTADIENE
Concen: 0.06 PPBV
RT: 3.928 min Scan# 301
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 54 Resp: 1523

Ion	Ratio	Lower	Upper
54	100		
39	168.7	82.0	142.0#
53	123.3	40.2	100.2#

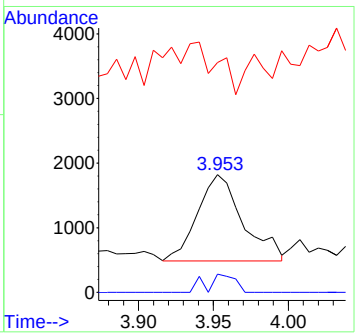


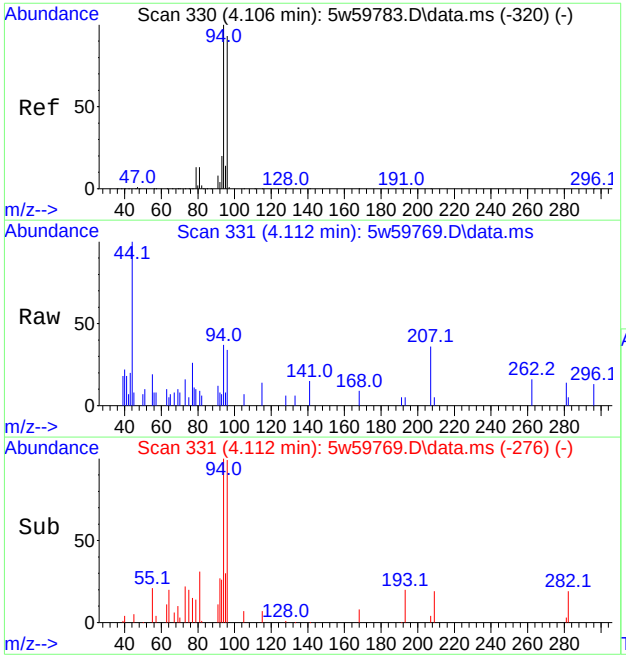


#13
n-BUTANE
Concen: 0.07 PPBV m
RT: 3.953 min Scan# 305
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 2825

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	0.0	0.0	34.9

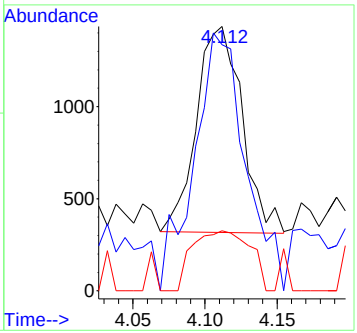


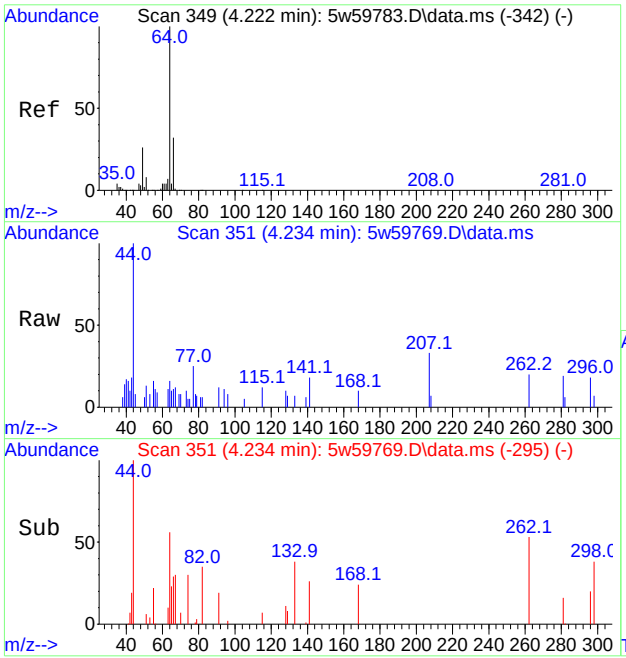


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 4.112 min Scan# 331
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 94 Resp: 2464

Ion	Ratio	Lower	Upper
94	100		
96	140.0	65.3	125.3#
95	36.8	0.0	44.1

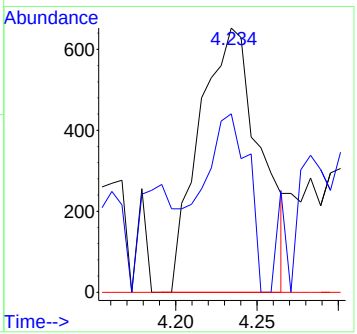


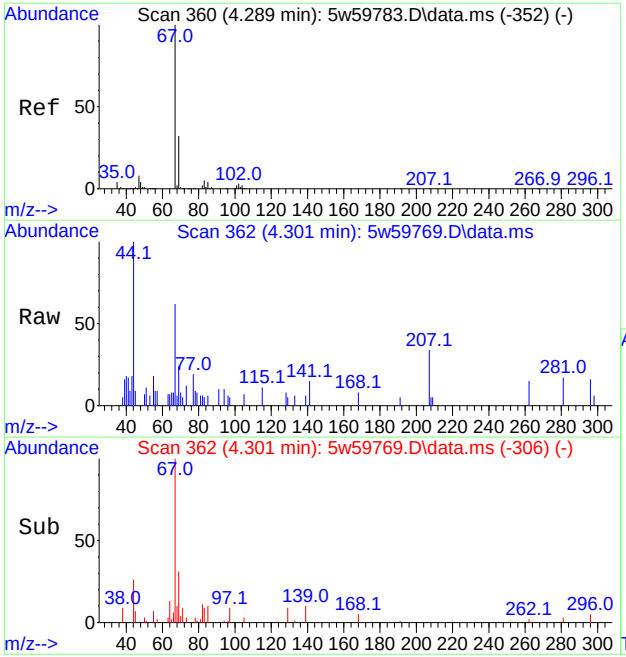


#15
CHLOROETHANE
Concen: 0.08 PPBV m
RT: 4.234 min Scan# 351
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 64 Resp: 1697

Ion	Ratio	Lower	Upper
64	100		
66	45.4	3.1	63.1
49	0.0	0.0	55.3

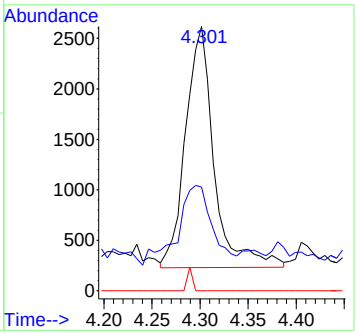


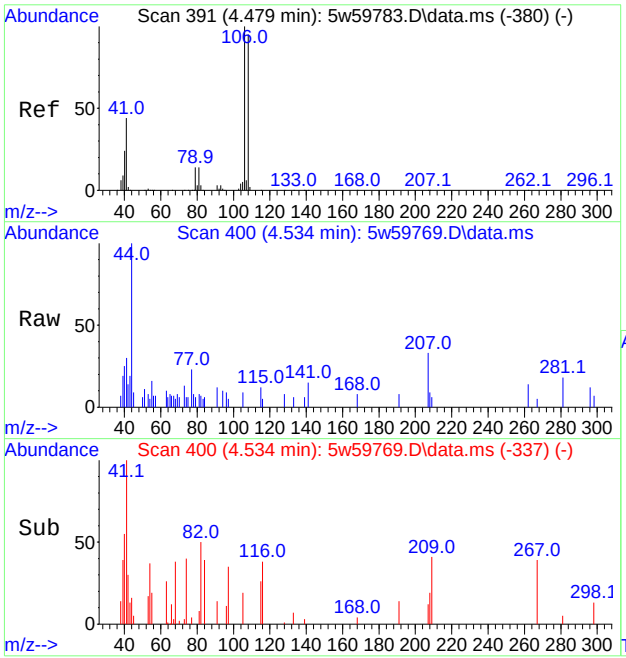


#16
DICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.301 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 4942

Ion	Ratio	Lower	Upper
67	100		
69	40.5	22.7	42.3
47	0.0	5.6	10.4#

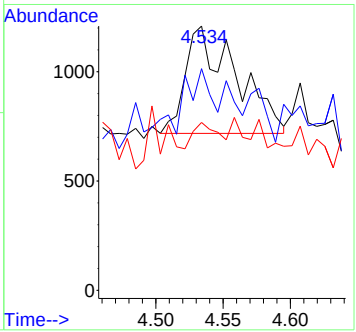


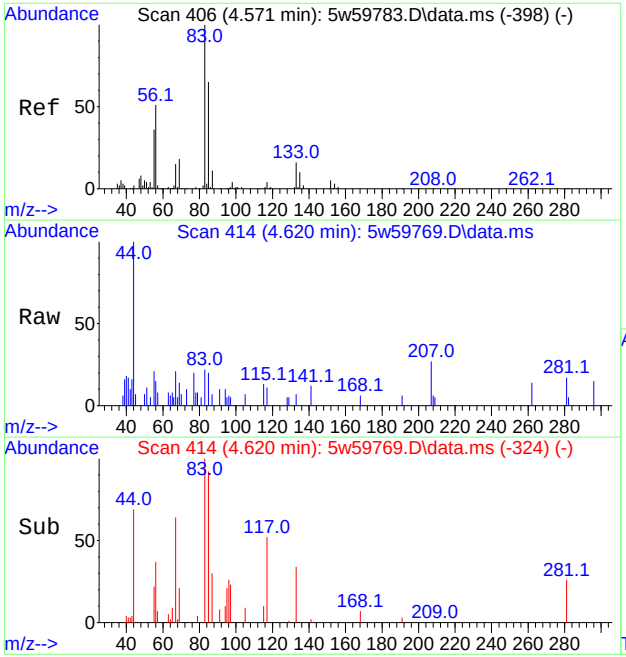


#17
ACETONITRILE
Concen: 0.05 PPBV
RT: 4.534 min Scan# 400
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 1278

Ion	Ratio	Lower	Upper
41	100		
40	81.2	37.9	70.5#
39	0.0	13.4	24.8#

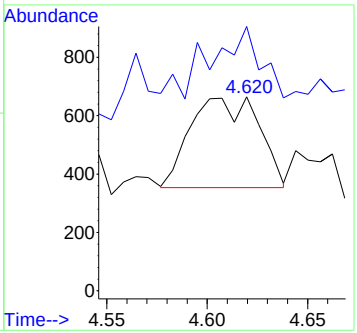


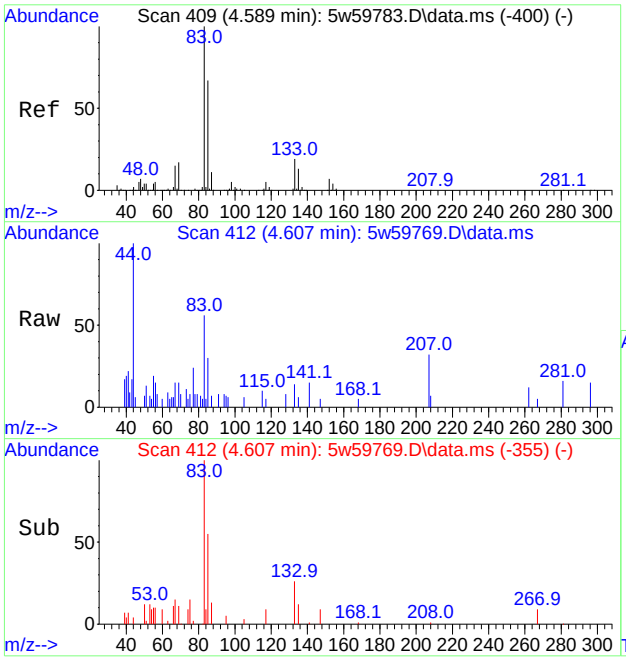


#18
ACROLEIN
Concen: 0.05 PPBV m
RT: 4.620 min Scan# 414
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 56 Resp: 728

Ion	Ratio	Lower	Upper
56	100		
55	401.2	46.6	86.6#

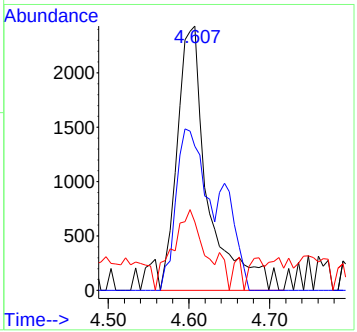


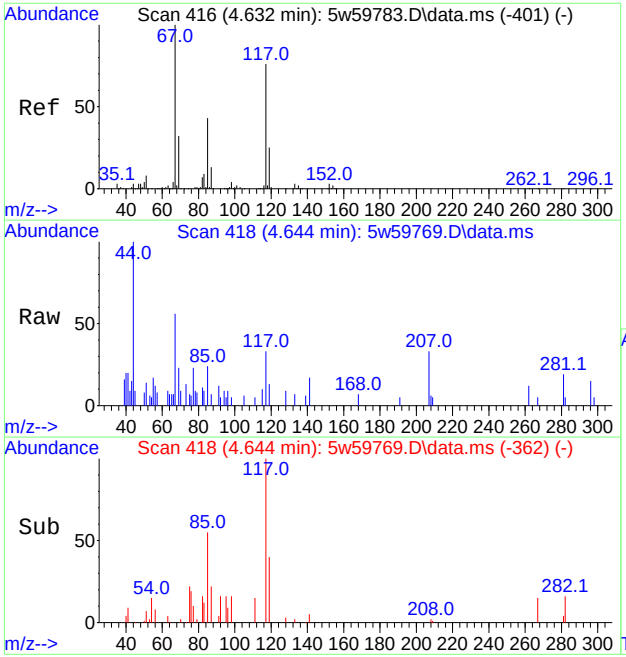


#19
FREON 123
Concen: 0.06 PPBV
RT: 4.607 min Scan# 412
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 6421

Ion	Ratio	Lower	Upper
83	100		
85	82.3	34.0	94.0
133	33.3	0.0	50.7

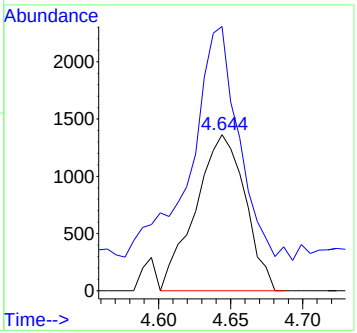


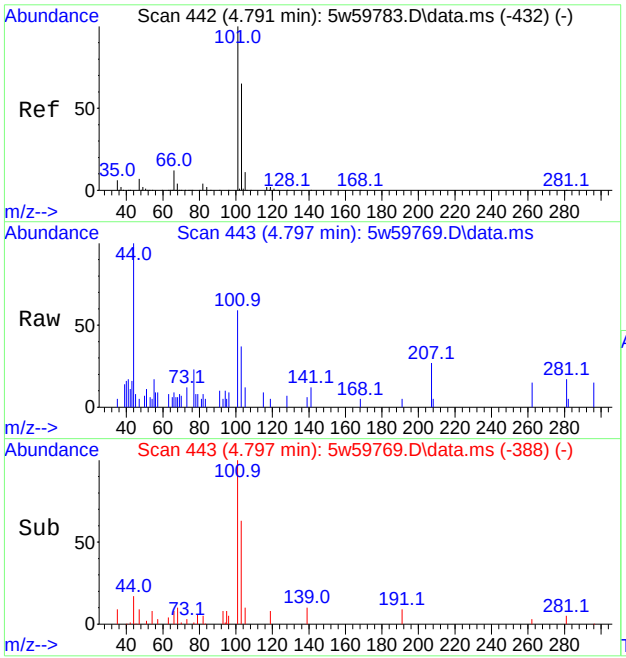


#20
FREON 123A
Concen: 0.05 PPBV
RT: 4.644 min Scan# 418
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 3274

Ion	Ratio	Lower	Upper
117	100		
67	146.4	114.6	174.6

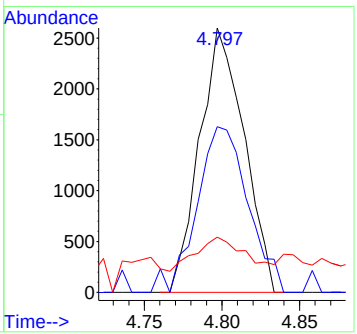


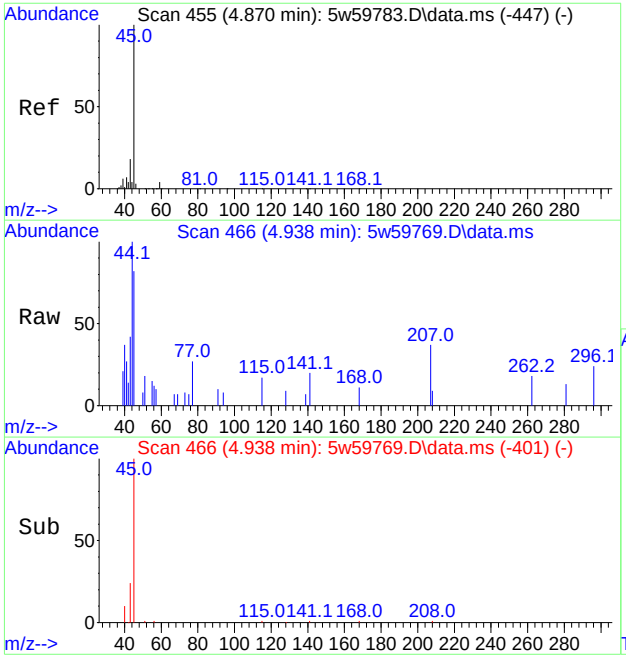


#21
TRICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:101 Resp: 5153

Ion	Ratio	Lower	Upper
101	100		
103	72.3	35.0	95.0
105	51.3	0.0	40.7#

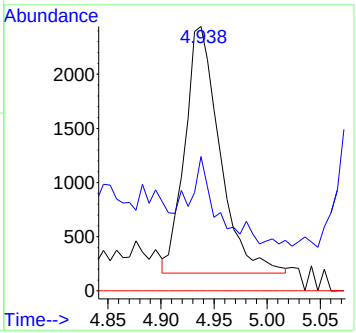


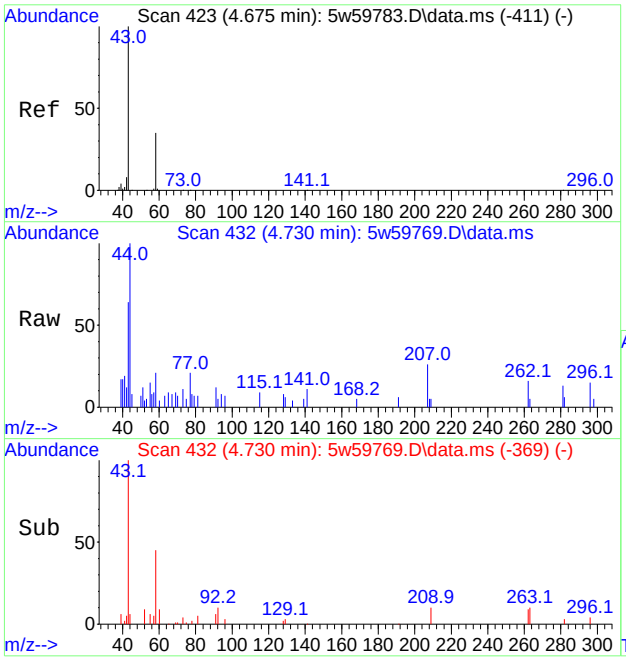


#22
ISOPROPYL ALCOHOL
Concen: 0.06 PPBV m
RT: 4.938 min Scan# 466
Delta R.T. 0.068 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 45 Resp: 5219

Ion	Ratio	Lower	Upper
45	100		
43	50.8	0.0	47.8#
59	0.0	0.0	34.1

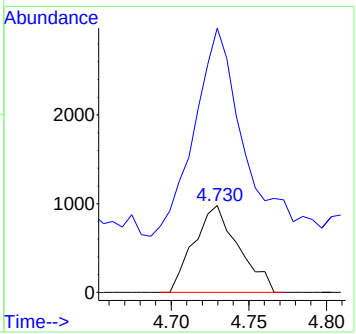


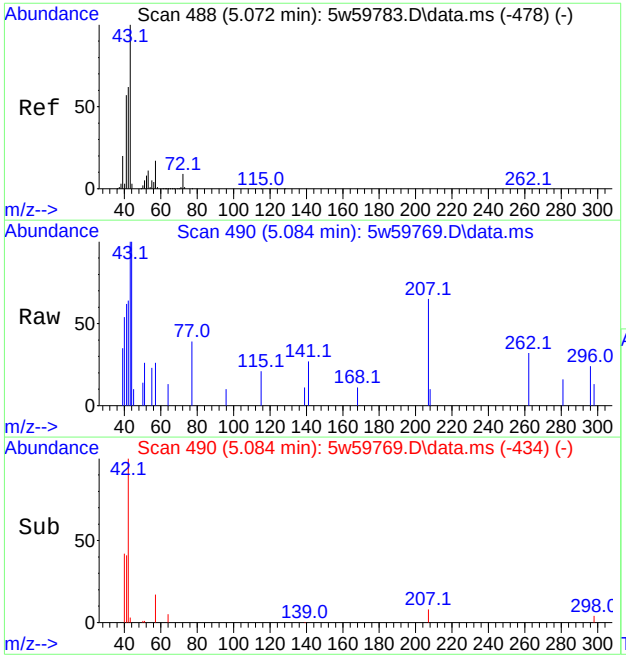


#23
ACETONE
Concen: 0.11 PPBV
RT: 4.730 min Scan# 432
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 58 Resp: 1951

Ion	Ratio	Lower	Upper
58	100		
43	292.5	252.3	312.3

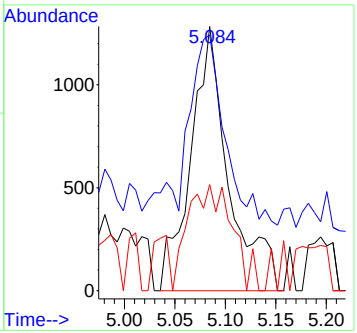


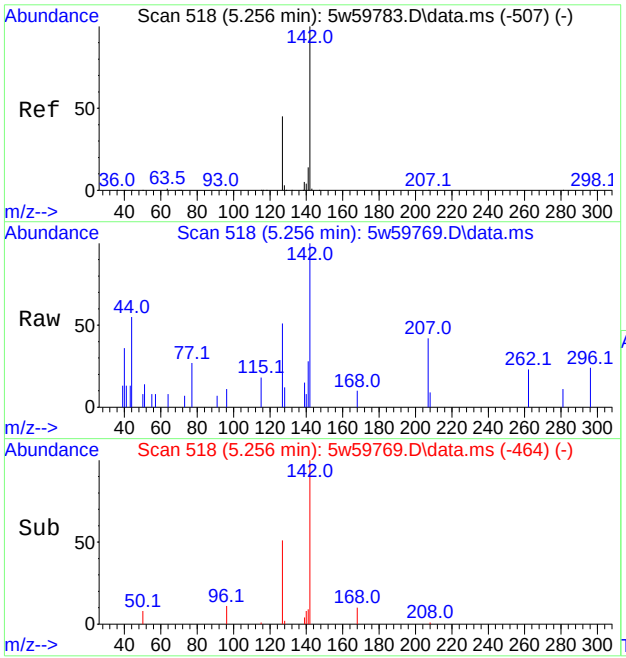


#24
PENTANE
Concen: 0.08 PPBV
RT: 5.084 min Scan# 490
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 42 Resp: 3370

Ion	Ratio	Lower	Upper
42	100		
41	72.5	62.3	122.3
57	46.9	0.0	57.7

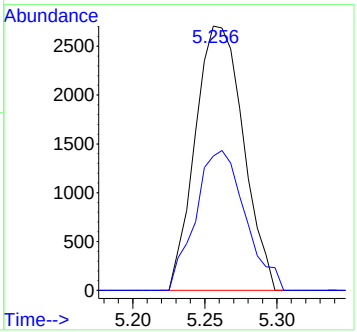


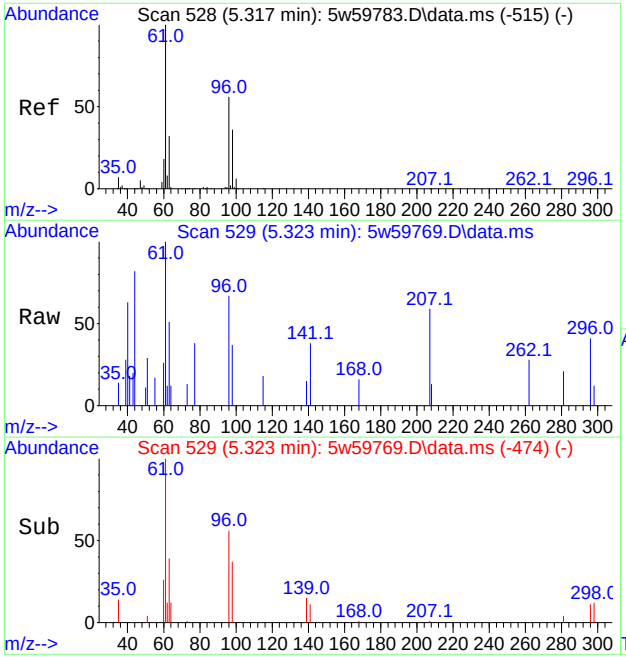


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:142 Resp: 6273

Ion	Ratio	Lower	Upper
142	100		
127	54.7	16.0	76.0

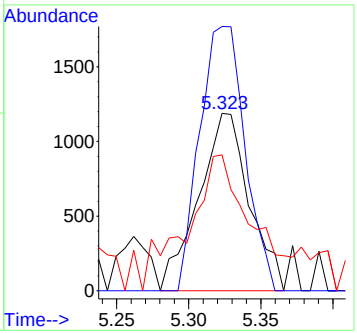


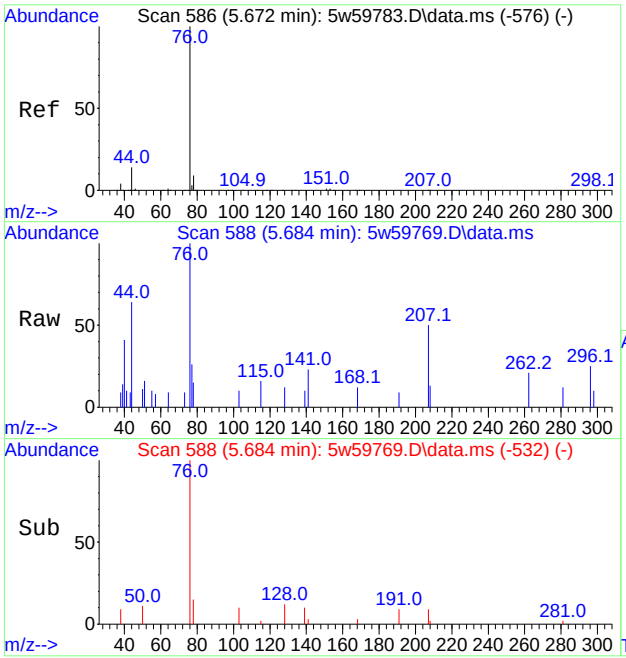


#26
1,1-DICHLOROETHYLENE
Concen: 0.06 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2915

Ion	Ratio	Lower	Upper
96	100		
61	132.6	148.5	208.5#
63	110.9	27.4	87.4#

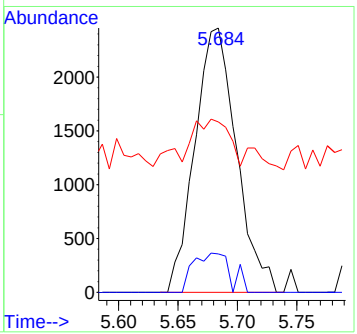


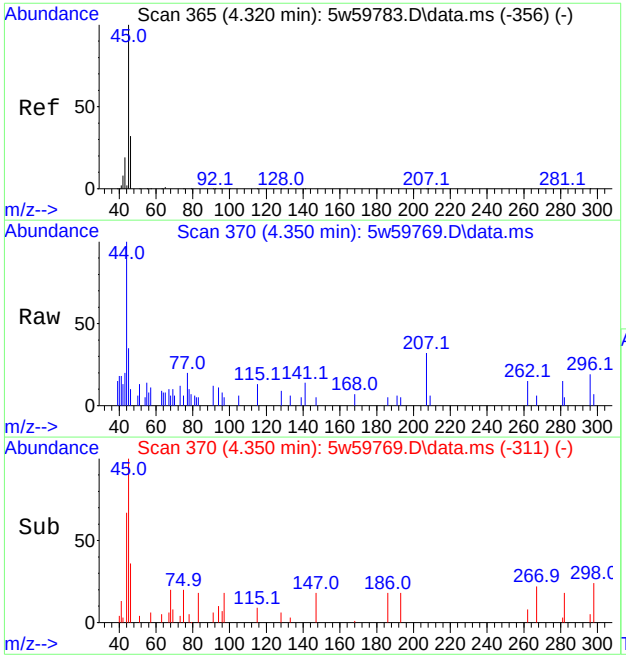


#27
CARBON DISULFIDE
Concen: 0.05 PPBV
RT: 5.684 min Scan# 588
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 5982

Ion	Ratio	Lower	Upper
76	100		
78	13.3	0.0	41.5
44	20.2	0.0	44.6

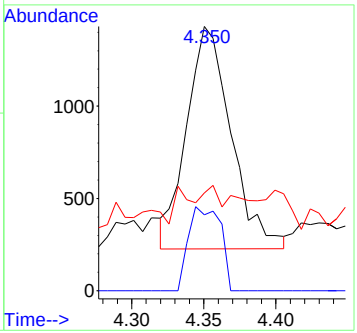


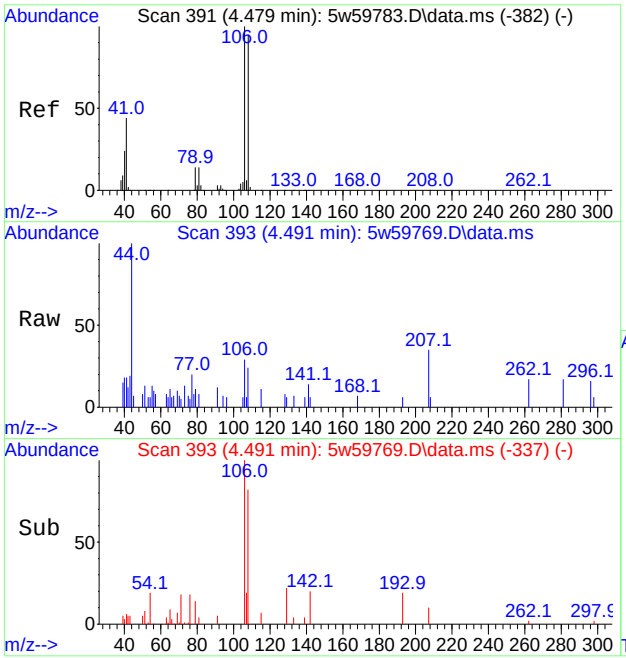


#28
ETHANOL
Concen: 0.17 PPBV
RT: 4.350 min Scan# 370
Delta R.T. 0.030 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 45 Resp: 2592

Ion	Ratio	Lower	Upper
45	100		
46	27.1	2.0	62.0
42	34.5	0.0	38.5

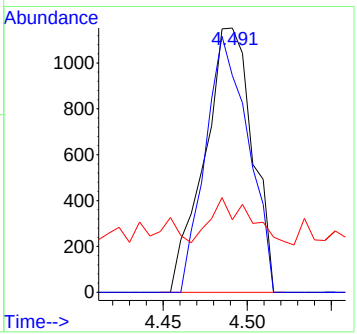


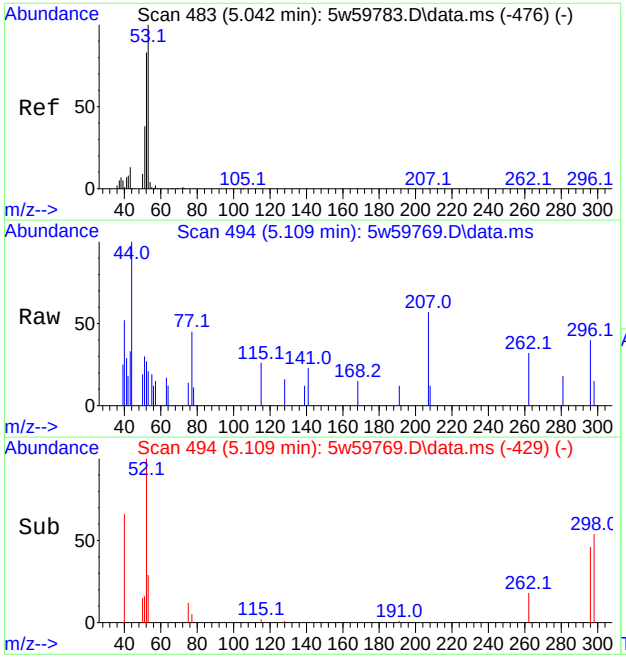


#29
BROMOETHENE
Concen: 0.05 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 2283

Ion	Ratio	Lower	Upper
106	100		
108	86.8	65.6	125.6
81	103.9	0.0	43.9#

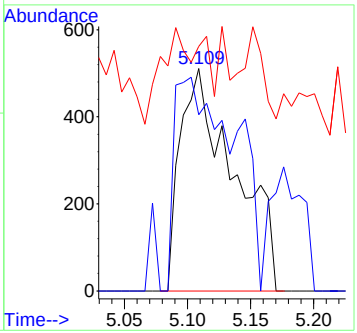


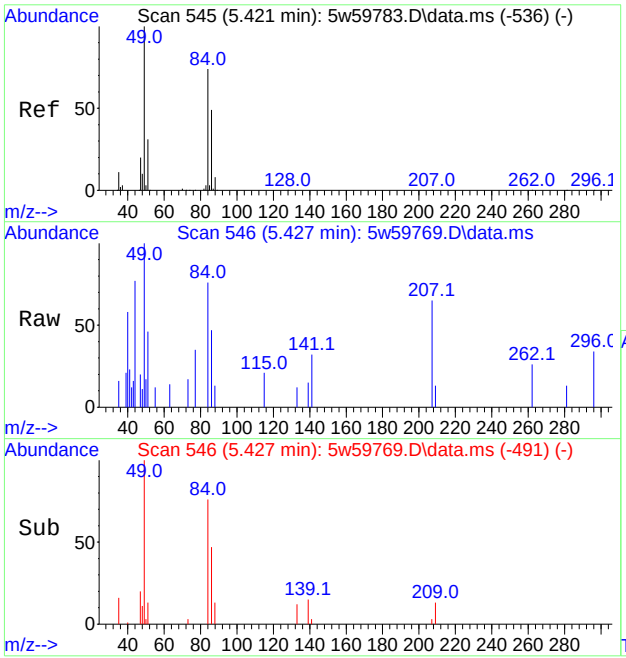


#30
ACRYLONITRILE
Concen: 0.05 PPBV
RT: 5.109 min Scan# 494
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 1514

Ion	Ratio	Lower	Upper
52	100		
53	107.2	85.8	159.4
51	0.0	32.3	60.1#

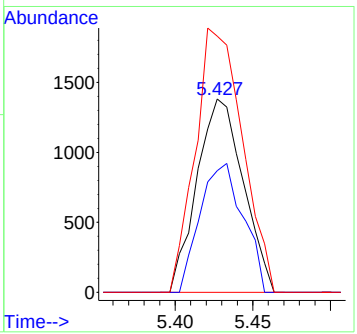


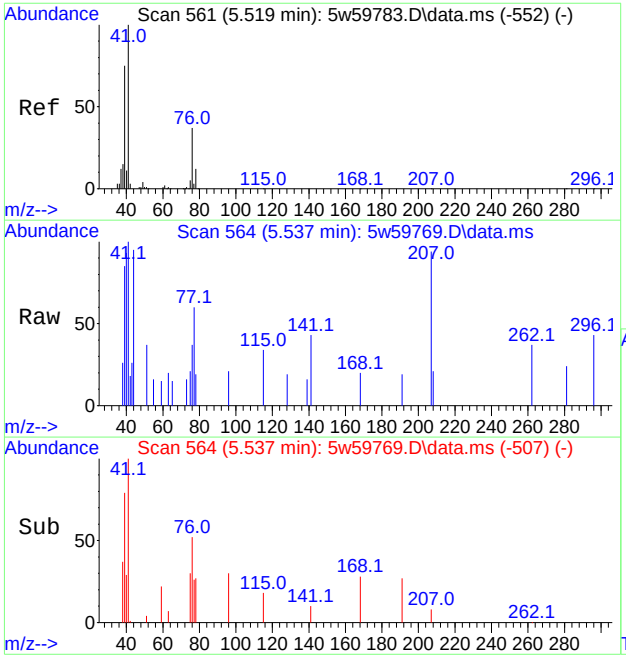


#31
METHYLENE CHLORIDE
Concen: 0.06 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2871

Ion	Ratio	Lower	Upper
84	100		
86	61.9	35.2	95.2
49	139.0	105.3	165.3

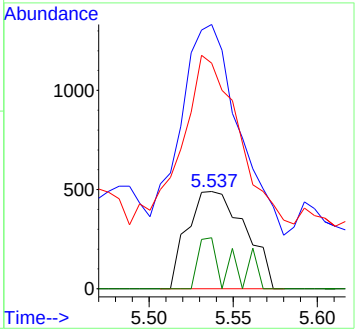


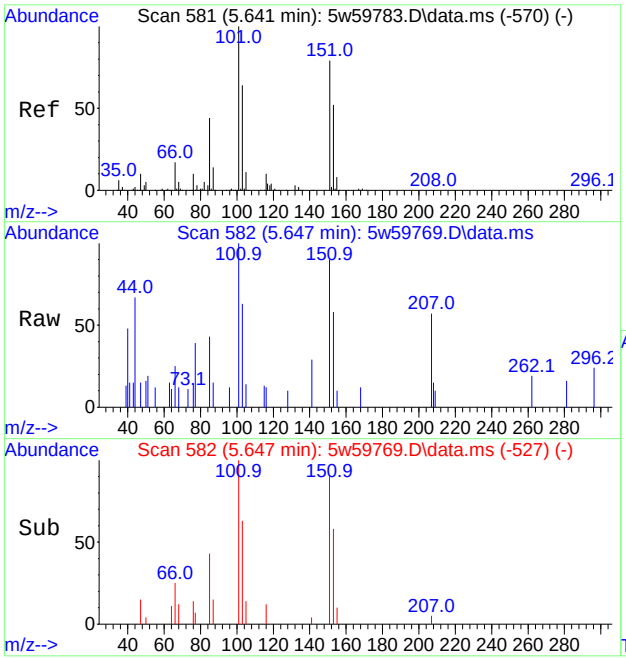


#32
3-CHLOROPROPENE
Concen: 0.05 PPBV
RT: 5.537 min Scan# 564
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 1170

Ion	Ratio	Lower	Upper
76	100		
41	199.4	240.8	300.8#
39	168.5	173.6	233.6#
78	15.9	2.8	62.8

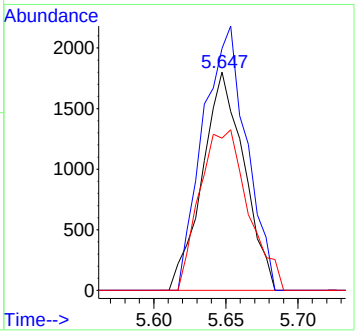


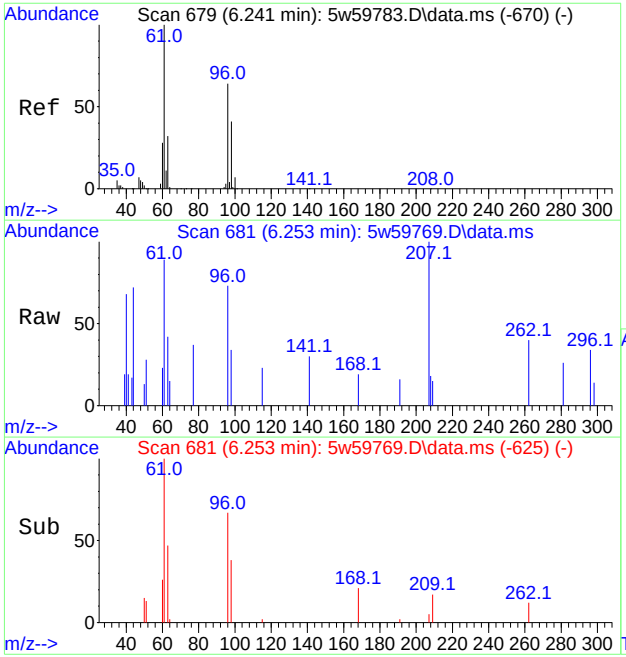


#33
FREON 113
Concen: 0.04 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:151 Resp: 3628

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	85.4	52.5	112.5

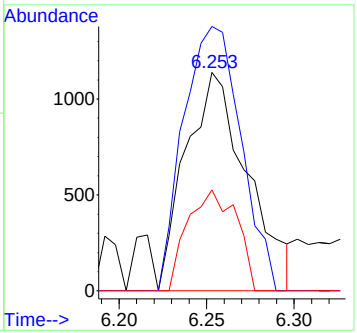


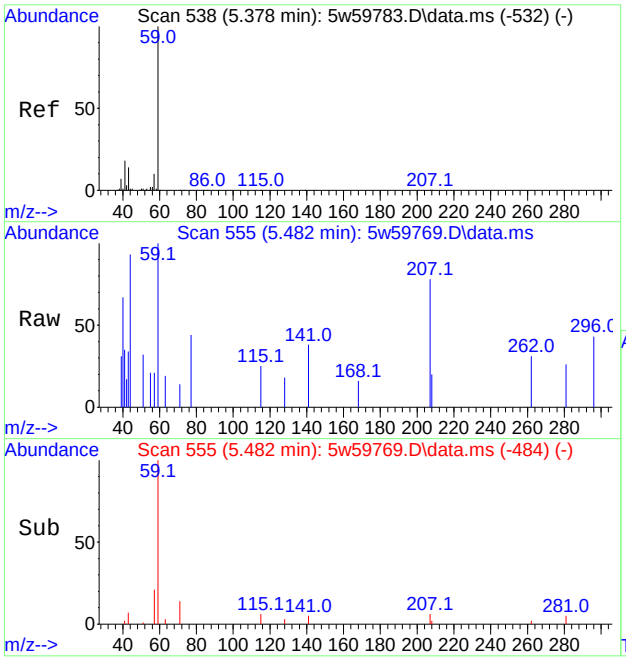


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.05 PPBV m
RT: 6.253 min Scan# 681
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2781

Ion	Ratio	Lower	Upper
96	100		
61	113.3	126.4	186.4#
98	36.7	34.1	94.1

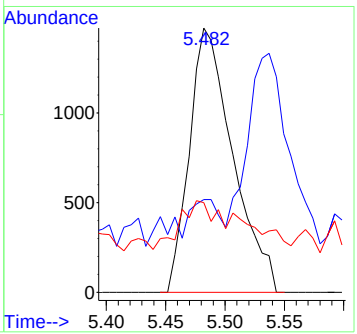


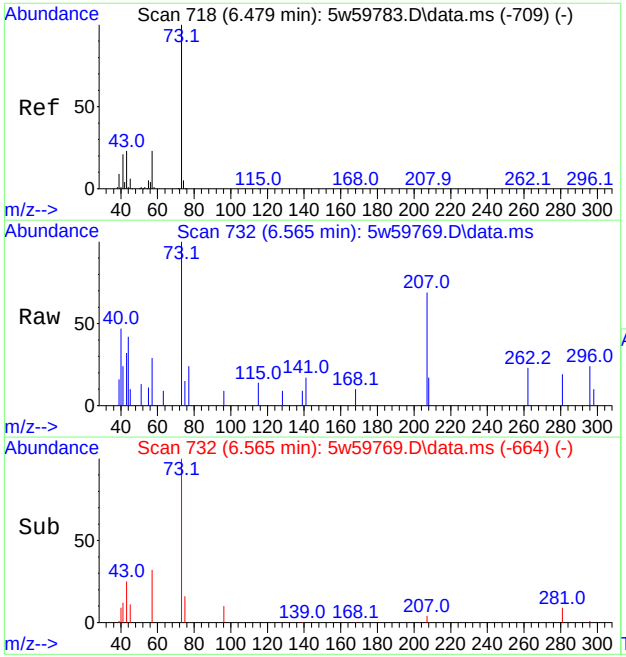


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.04 PPBV
RT: 5.482 min Scan# 555
Delta R.T. 0.104 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 3750

Ion	Ratio	Lower	Upper
59	100		
41	11.0	0.0	49.3
43	25.6	0.0	44.1

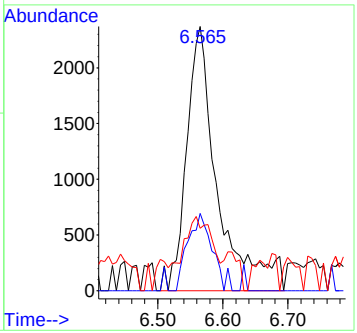


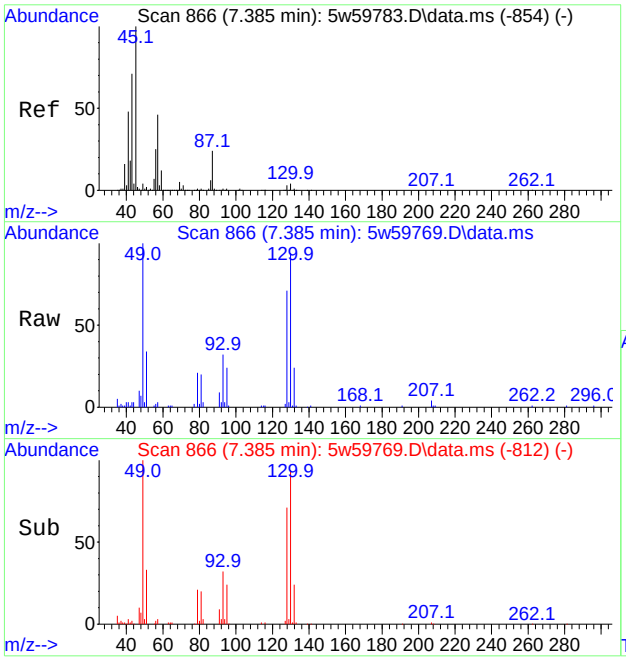


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.06 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.086 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 73 Resp: 7842

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	30.5	0.0	50.6

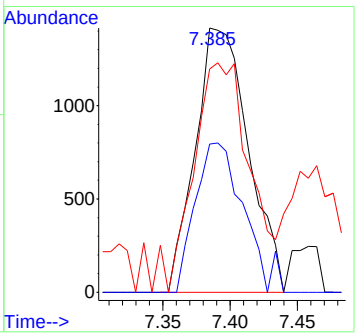


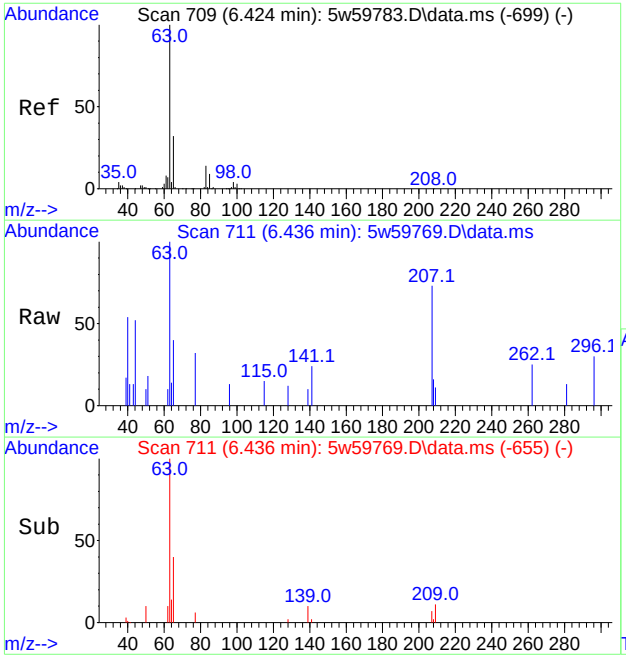


#38
HEXANE
Concen: 0.05 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 3894

Ion	Ratio	Lower	Upper
57	100		
56	51.6	25.9	85.9
41	90.7	74.7	134.7

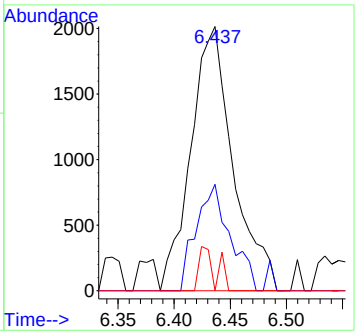


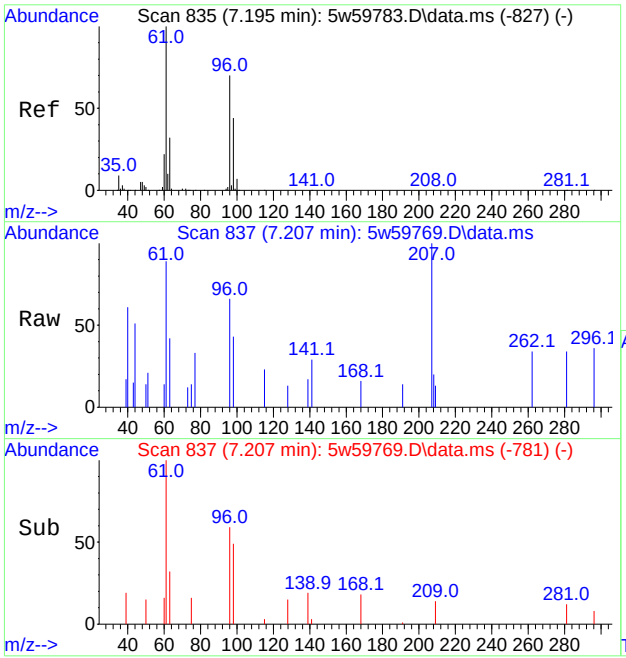


#40
1,1-DICHLOROETHANE
Concen: 0.06 PPBV
RT: 6.436 min Scan# 711
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 5305

Ion	Ratio	Lower	Upper
63	100		
65	32.5	1.7	61.7
83	6.6	0.0	43.5

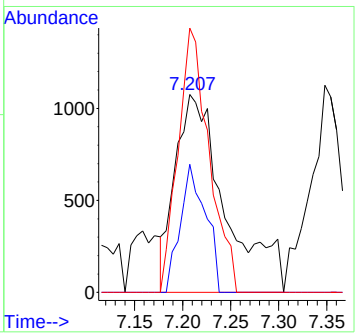


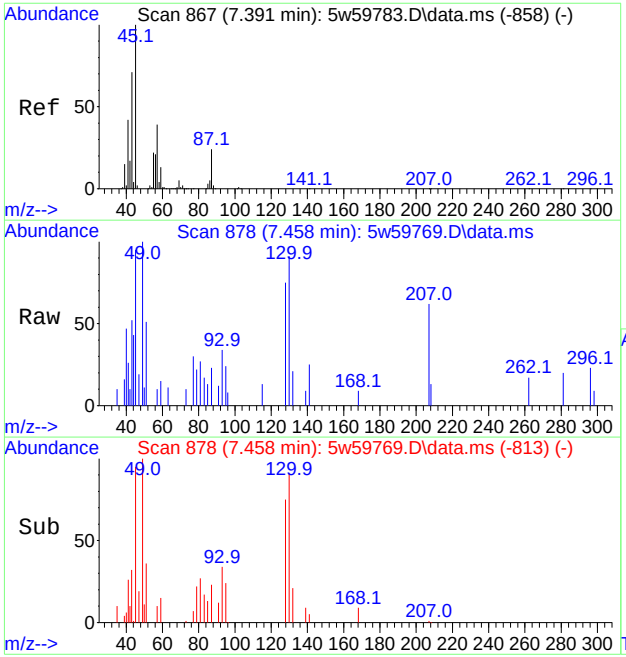


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.07 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 3901

Ion	Ratio	Lower	Upper
96	100		
98	32.6	34.0	94.0#
61	82.7	111.5	171.5#

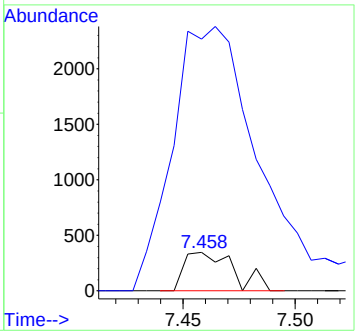


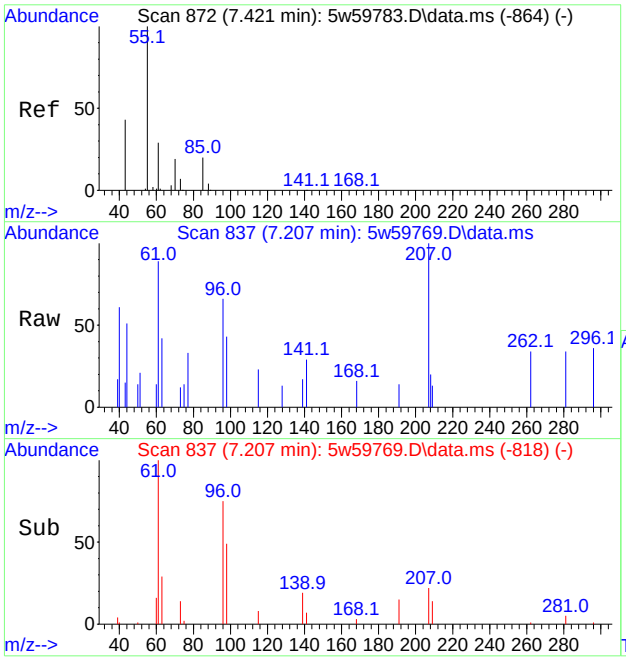


#43
DIISOPROPYL ETHER
Concen: 0.03 PPBV
RT: 7.458 min Scan# 878
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 536

Ion	Ratio	Lower	Upper
59	100		
45	1232.1	720.9	780.9#

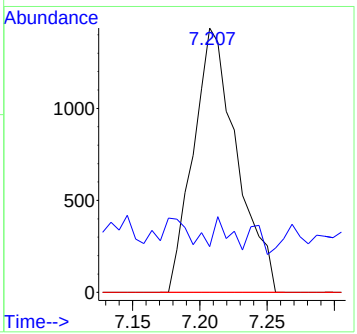


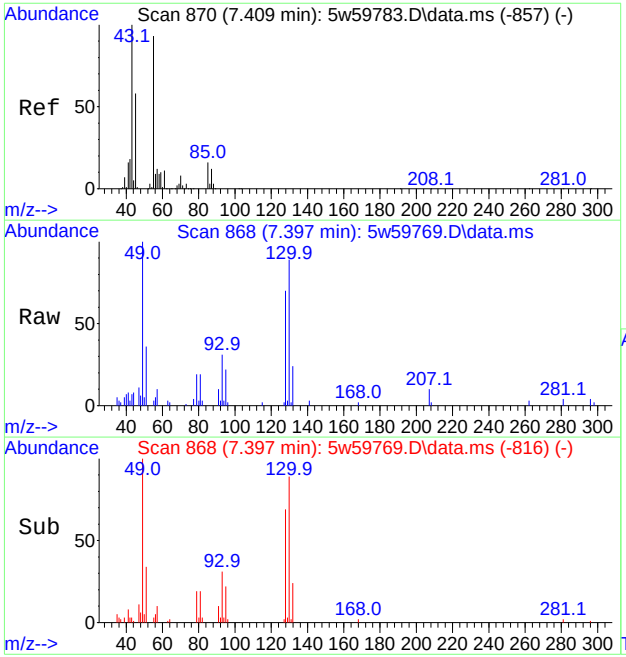


#44
ETHYL ACETATE
Concen: 0.23 PPBV
RT: 7.207 min Scan# 837
Delta R.T. -0.214 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 61 Resp: 3226

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	0.0	4.5	64.5#

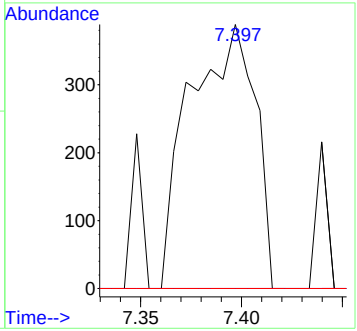


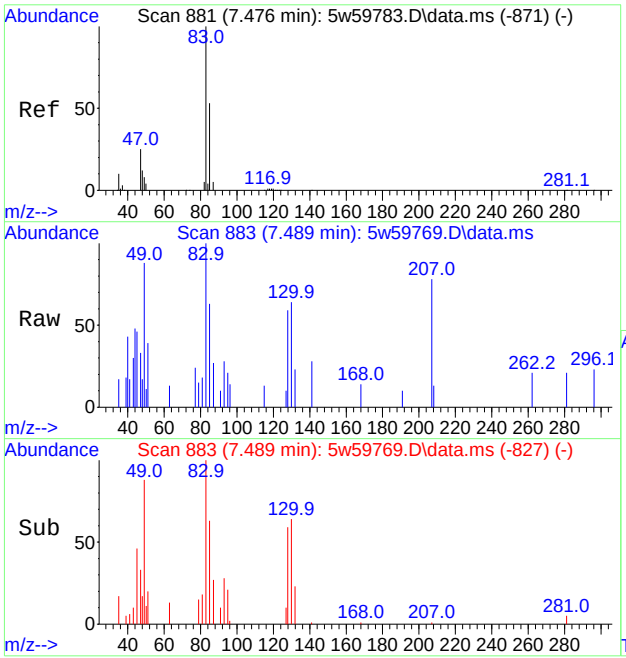


#45
METHYL ACRYLATE
Concen: 0.01 PPBV
RT: 7.397 min Scan# 868
Delta R.T. -0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 55 Resp: 878

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

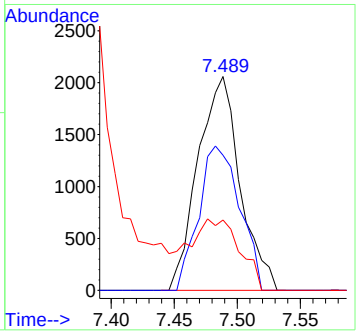


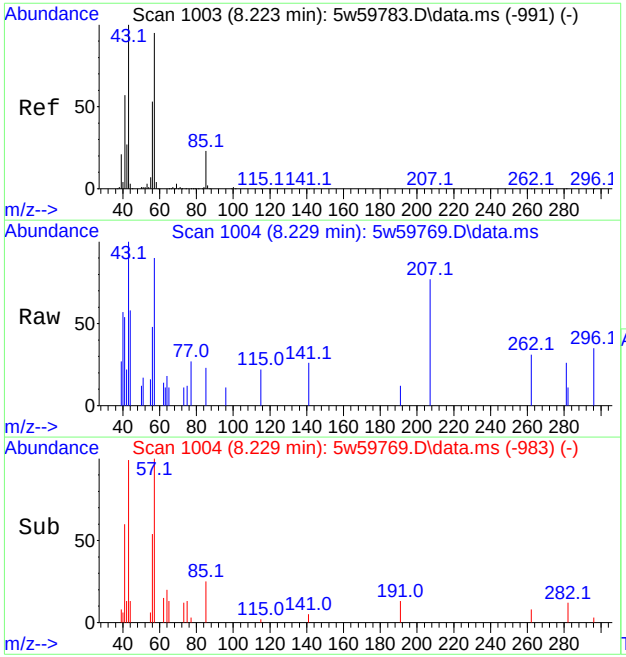


#46
CHLOROFORM
Concen: 0.05 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4783

Ion	Ratio	Lower	Upper
83	100		
85	65.9	35.6	95.6
47	0.0	0.0	55.2

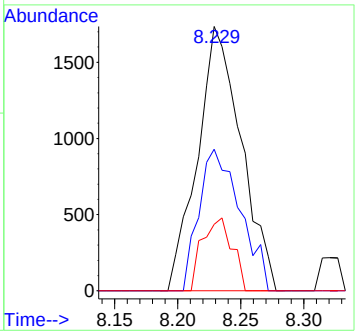


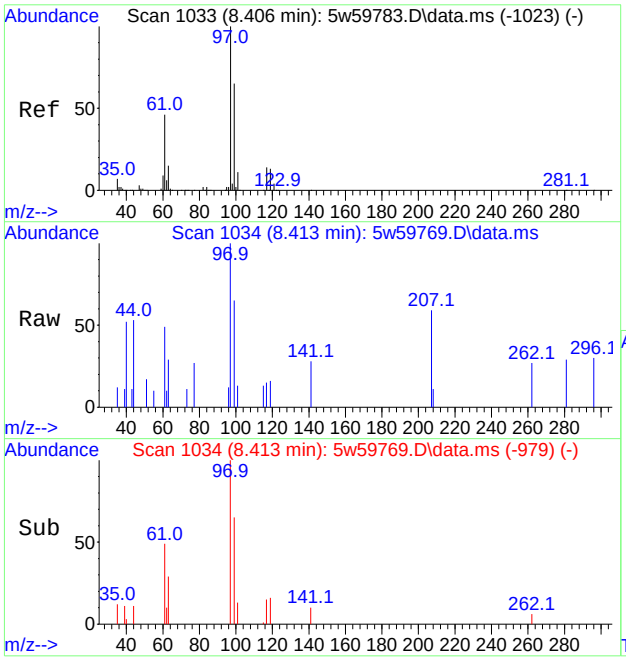


#47
2,4-DIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 4175

Ion	Ratio	Lower	Upper
57	100		
56	50.5	26.5	86.5
85	18.8	0.0	53.8

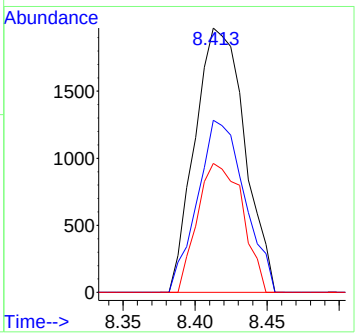


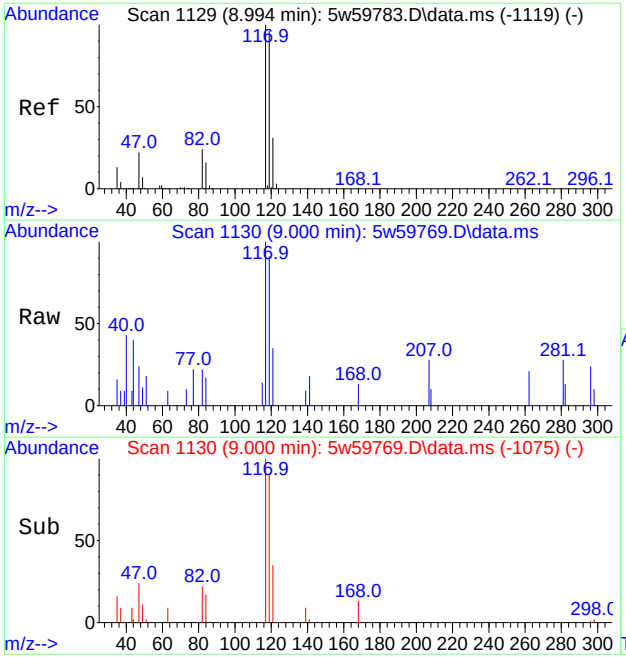


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 97 Resp: 4728

Ion	Ratio	Lower	Upper
97	100		
99	61.8	34.8	94.8
61	44.4	15.8	75.8

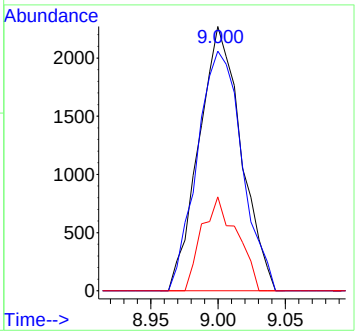


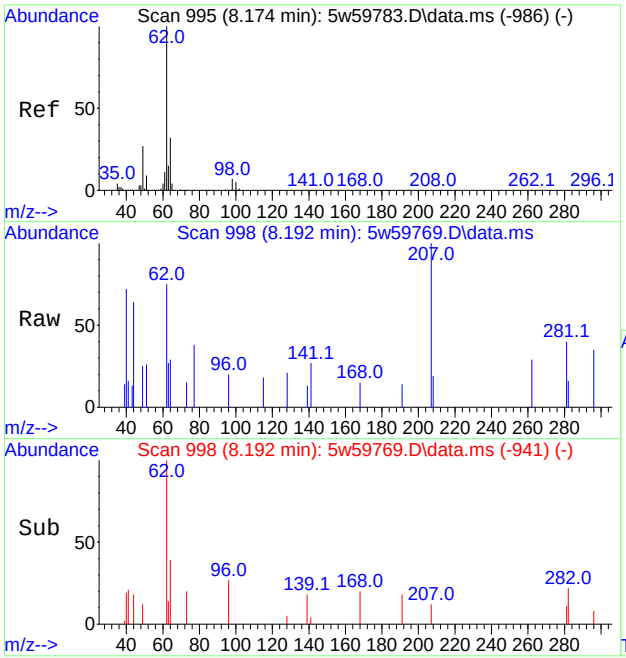


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4970

Ion	Ratio	Lower	Upper
117	100		
119	96.1	66.9	126.9
121	29.5	1.3	61.3

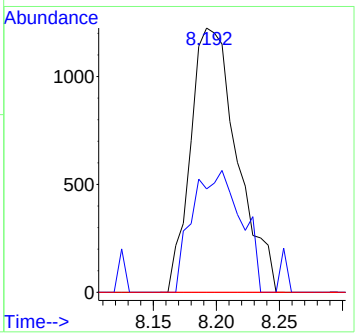


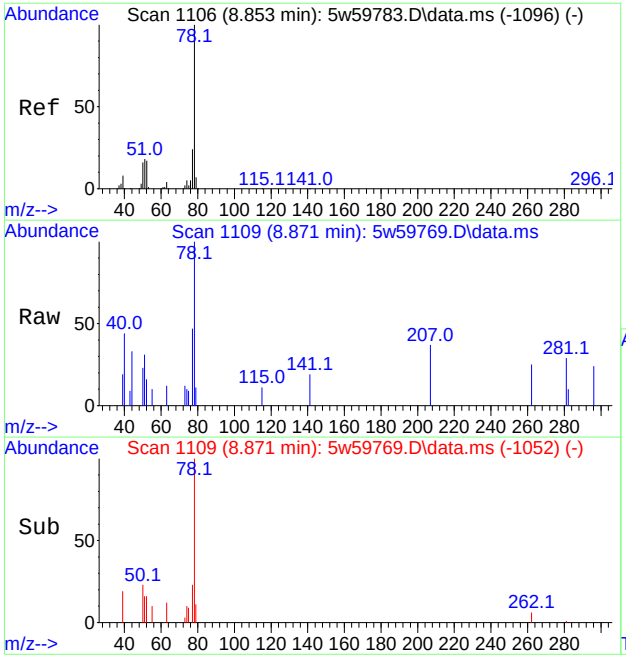


#50
1,2-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.192 min Scan# 998
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 3147

Ion	Ratio	Lower	Upper
62	100		
64	48.3	2.3	62.3
98	0.0	0.0	36.9

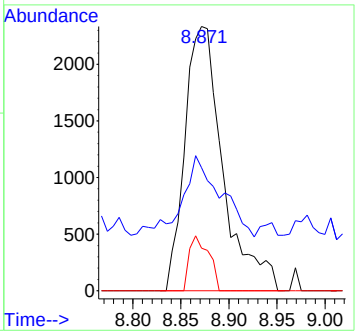


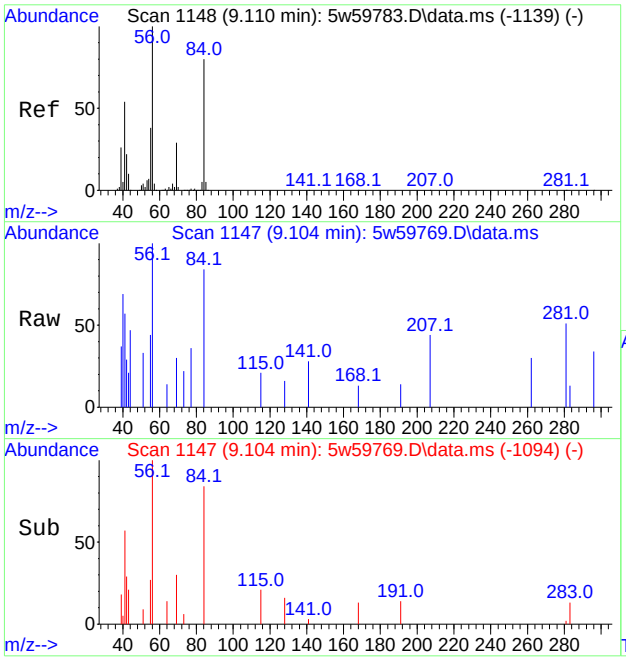


#52
BENZENE
Concen: 0.05 PPBV
RT: 8.871 min Scan# 1109
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 78 Resp: 6471

Ion	Ratio	Lower	Upper
78	100		
77	31.7	0.0	53.8
52	10.6	0.0	46.9

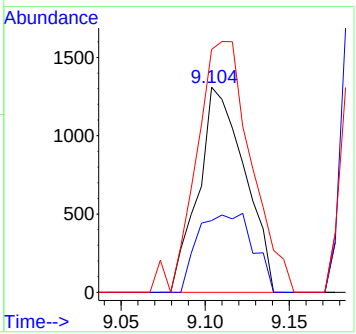


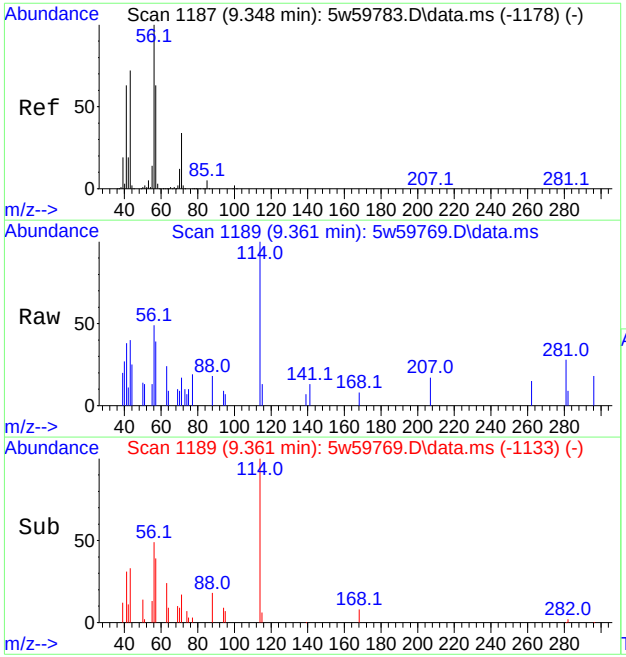


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2517

Ion	Ratio	Lower	Upper
84	100		
69	45.4	6.9	66.9
56	143.8	98.2	158.2

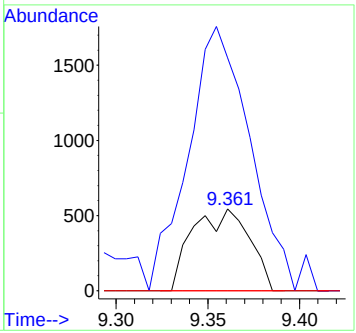


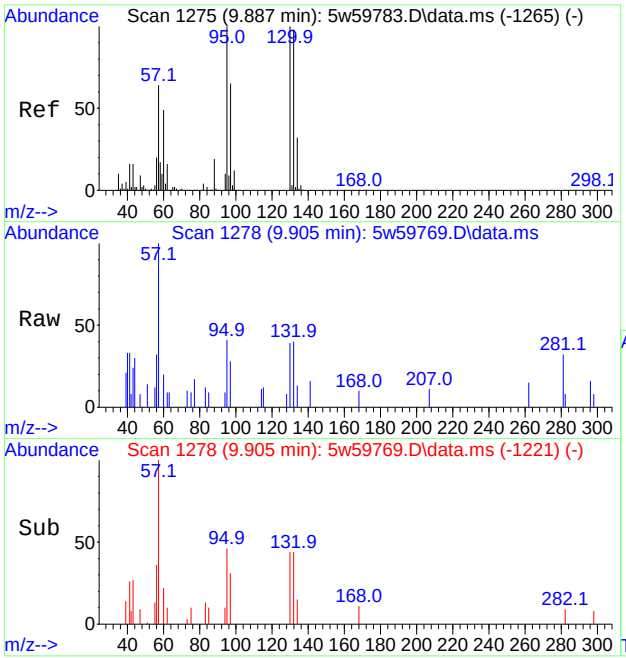


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 71 Resp: 1176

Ion	Ratio	Lower	Upper
71	100		
56	356.8	264.6	324.6#
85	0.0	0.0	45.3

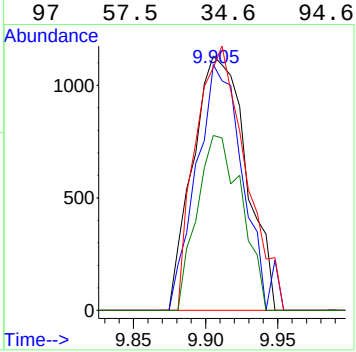


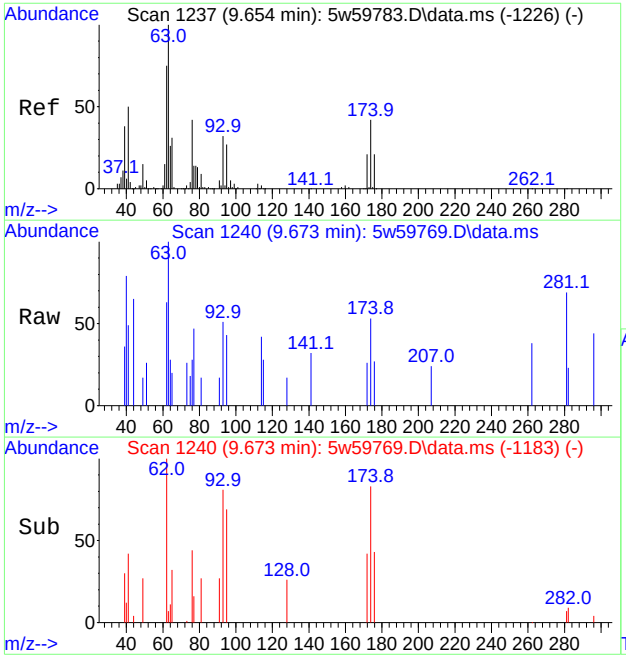


#55
TRICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 9.905 min Scan# 1278
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 95 Resp: 2913

Ion	Ratio	Lower	Upper
95	100		
132	84.8	69.0	129.0
130	97.2	70.6	130.6
97	57.5	34.6	94.6

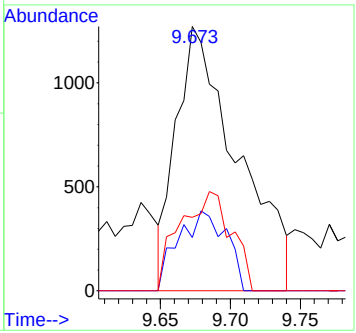


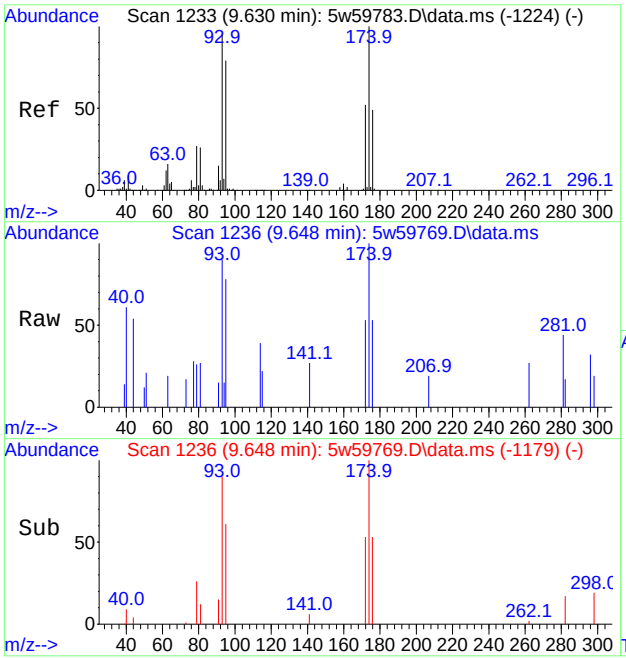


#56
1,2-DICHLOROPROPANE
Concen: 0.06 PPBV m
RT: 9.673 min Scan# 1240
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 3887

Ion	Ratio	Lower	Upper
63	100		
65	23.5	0.5	60.5
76	31.3	11.5	71.5

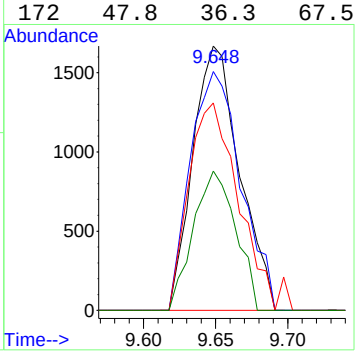


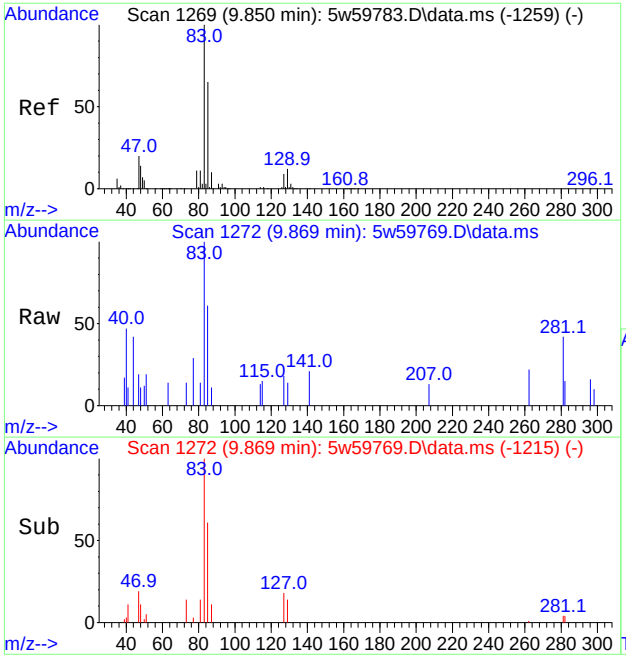


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:174 Resp: 3768

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	84.4	54.5	101.1
172	47.8	36.3	67.5

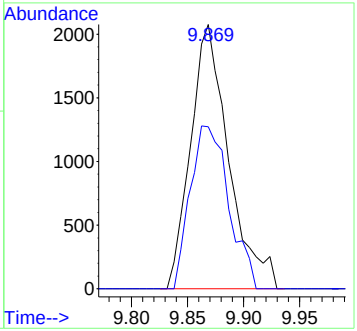


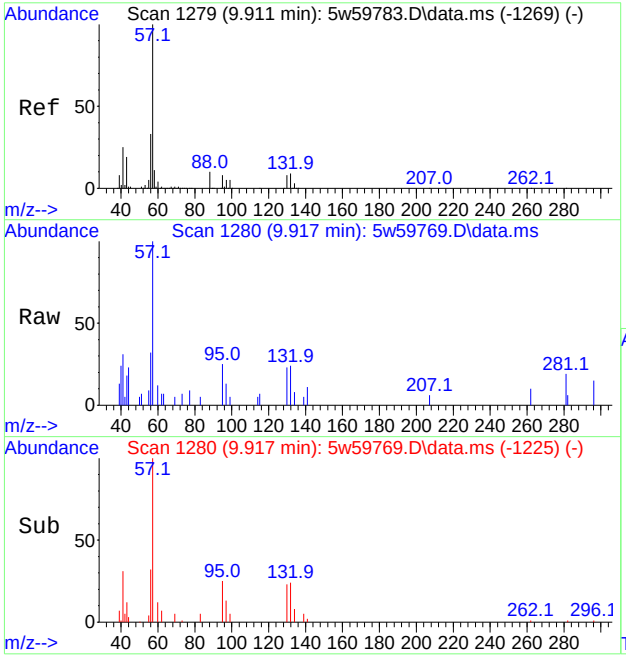


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 9.869 min Scan# 1272
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4912

Ion	Ratio	Lower	Upper
83	100		
85	62.2	33.4	93.4

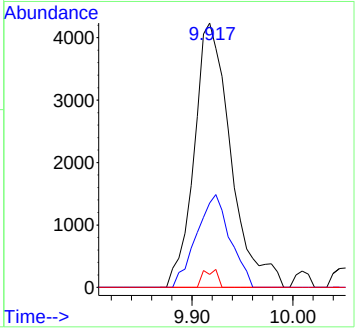


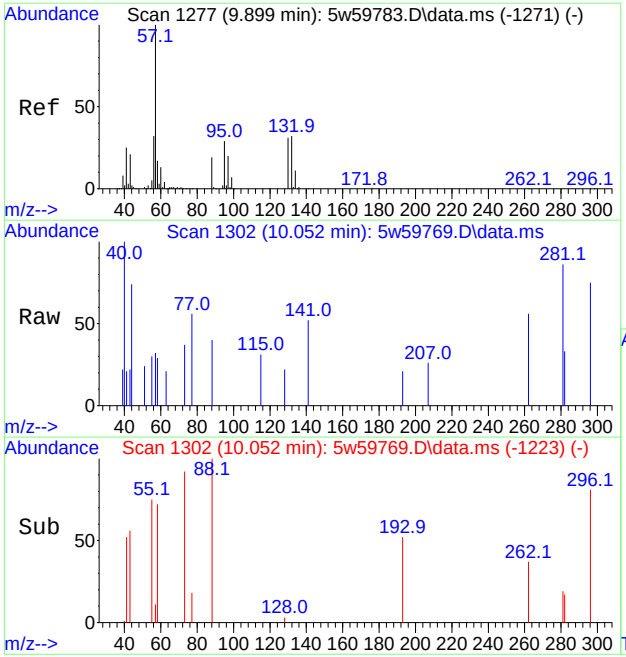


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 10699

Ion	Ratio	Lower	Upper
57	100		
56	32.2	2.5	62.5
99	2.6	0.0	37.3

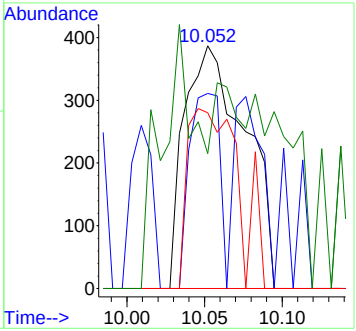


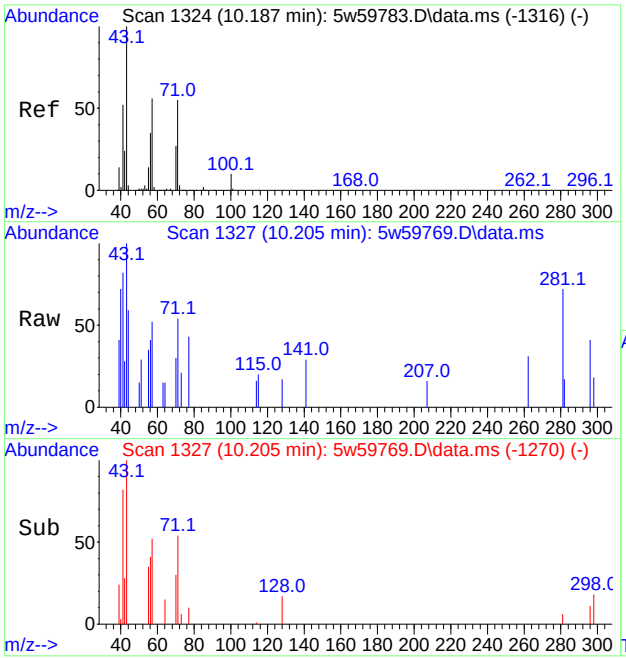


#61
1,4-DIOXANE
Concen: 0.03 PPBV
RT: 10.052 min Scan# 1302
Delta R.T. 0.153 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 88 Resp: 1059

Ion	Ratio	Lower	Upper
88	100		
57	80.4	494.2	554.2#
58	72.4	58.9	118.9
43	55.6	78.3	138.3#

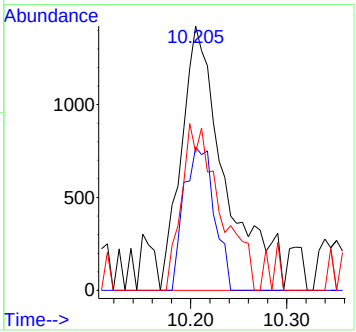


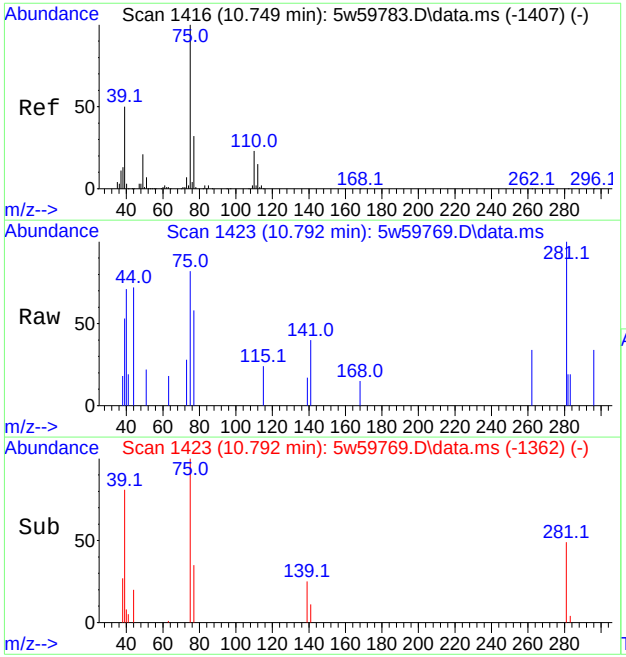


#62
HEPTANE
Concen: 0.06 PPBV
RT: 10.205 min Scan# 1327
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 4522

Ion	Ratio	Lower	Upper
43	100		
71	37.6	24.5	84.5
57	55.7	26.2	86.2

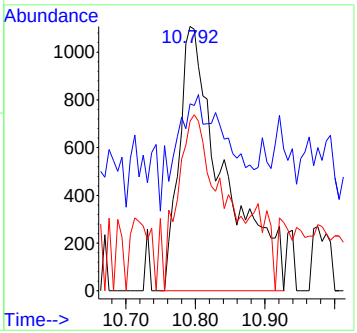


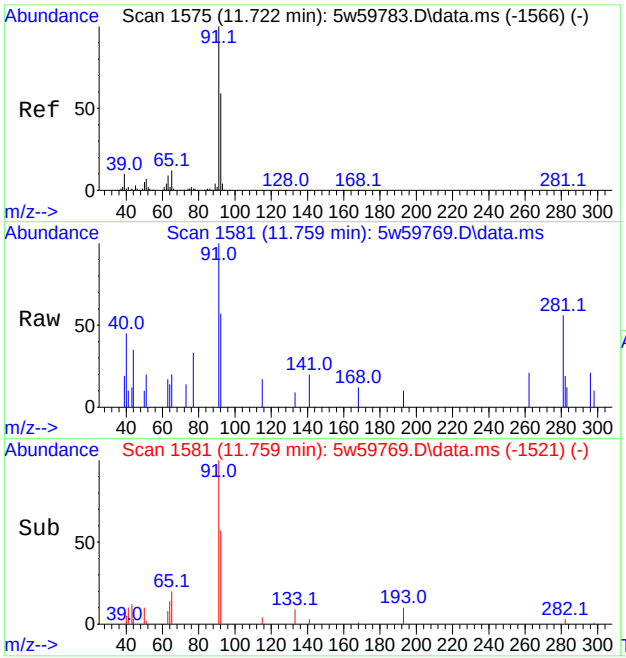


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4969

Ion	Ratio	Lower	Upper
75	100		
77	49.8	2.2	62.2
39	78.5	34.3	94.3

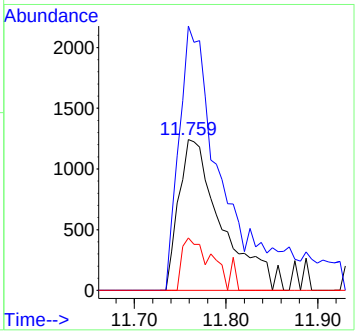


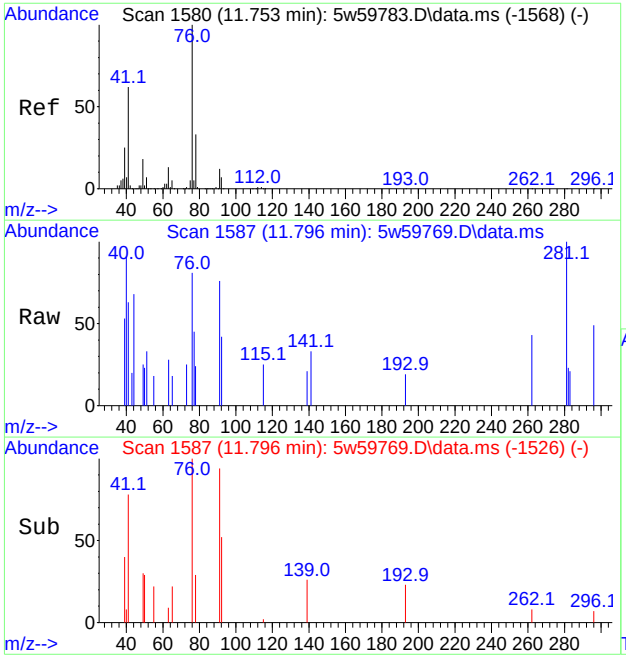


#66
TOLUENE
Concen: 0.04 PPBV
RT: 11.759 min Scan# 1581
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 92 Resp: 4059

Ion	Ratio	Lower	Upper
92	100		
91	195.5	140.1	200.1
65	22.8	0.0	53.1

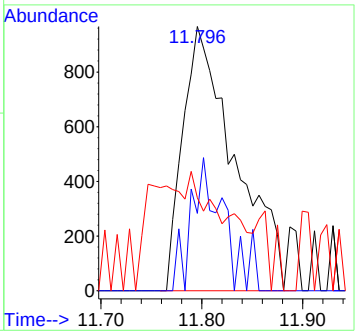


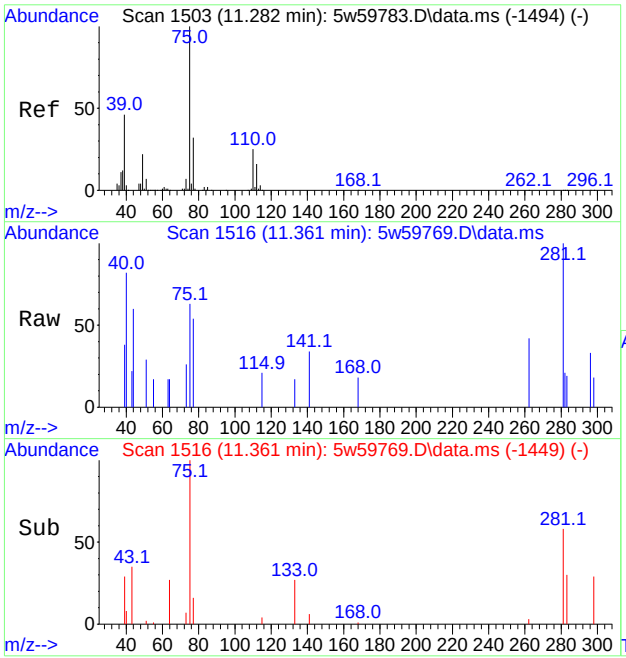


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 11.796 min Scan# 1587
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 3478

Ion	Ratio	Lower	Upper
76	100		
78	27.2	23.2	43.0
63	71.6	7.1	13.1#

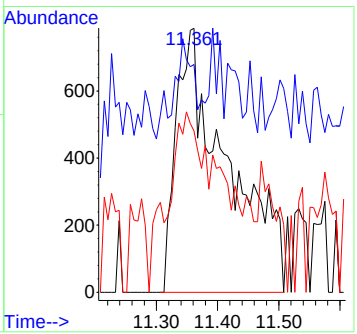


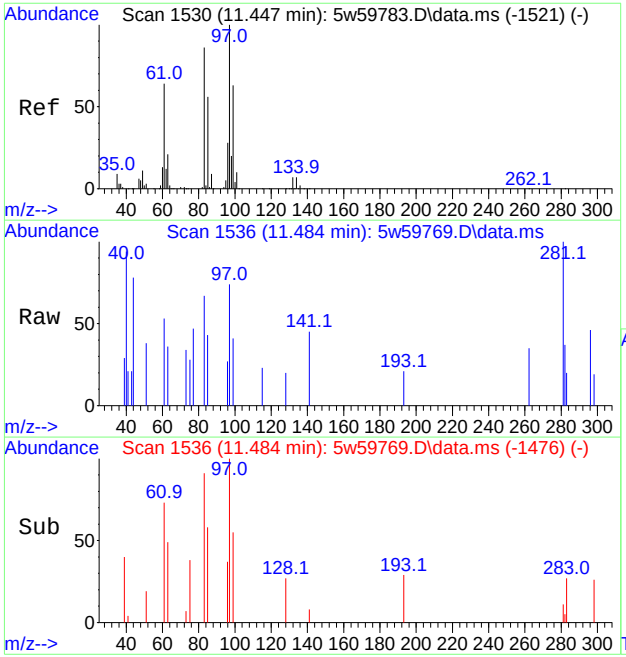


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 11.361 min Scan# 1516
Delta R.T. 0.079 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4586

Ion	Ratio	Lower	Upper
75	100		
77	16.9	1.6	61.6
39	35.7	16.1	76.1

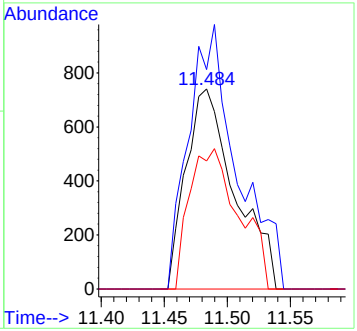


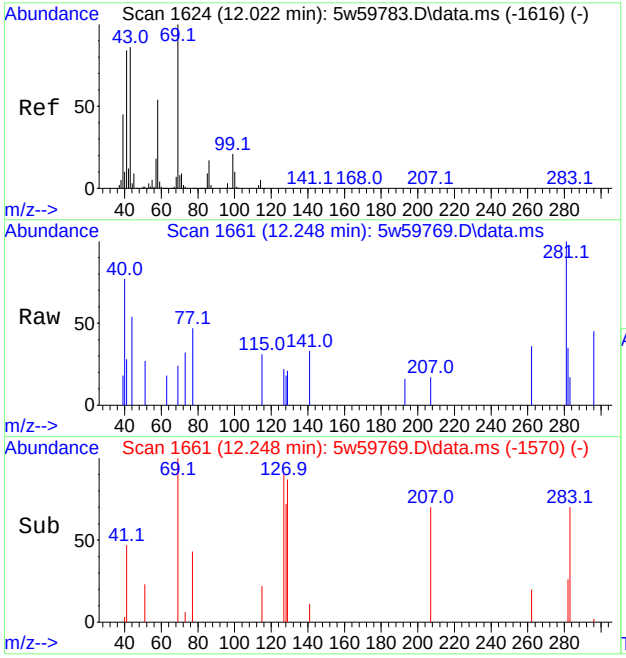


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 11.484 min Scan# 1536
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 2006

Ion	Ratio	Lower	Upper
83	100		
97	130.6	86.3	146.3
85	70.5	35.3	95.3

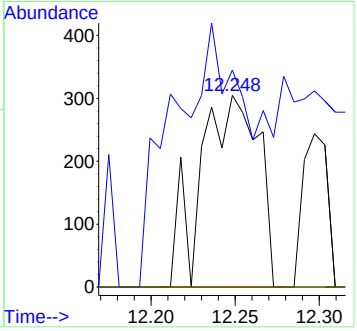


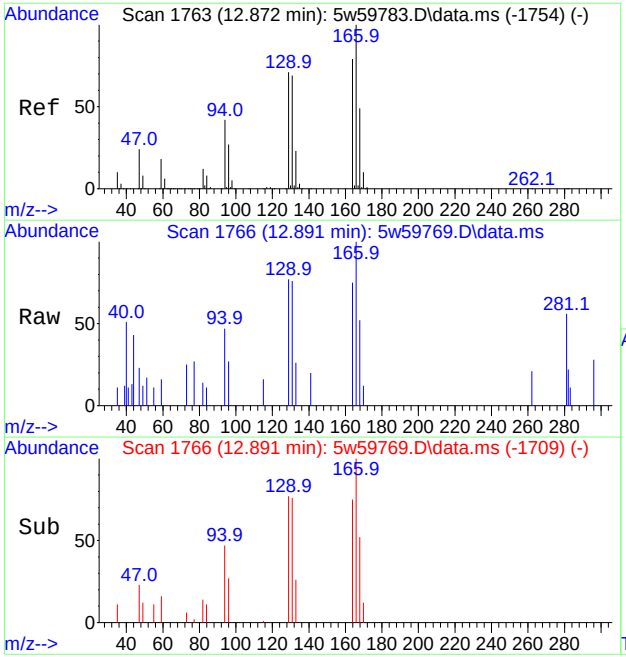


#72
ETHYL METHACRYLATE
Concen: 0.01 PPBV
RT: 12.248 min Scan# 1661
Delta R.T. 0.226 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 69 Resp: 735

Ion	Ratio	Lower	Upper
69	100		
41	291.7	64.0	119.0#
86	0.0	12.0	22.4#
99	0.0	15.0	27.8#

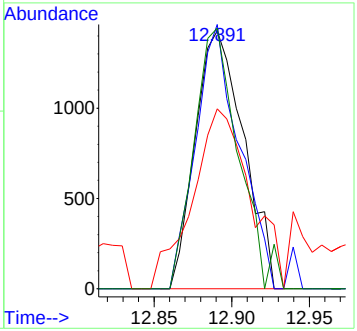


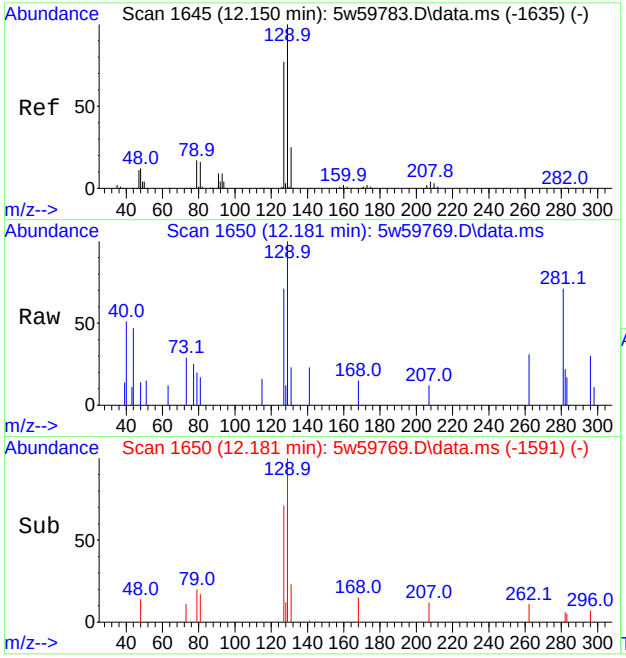


#73
TETRACHLOROETHYLENE
Concen: 0.04 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:164 Resp: 3089

Ion	Ratio	Lower	Upper
164	100		
129	93.4	59.7	119.7
168	83.4	32.2	92.2
131	92.9	57.8	117.8

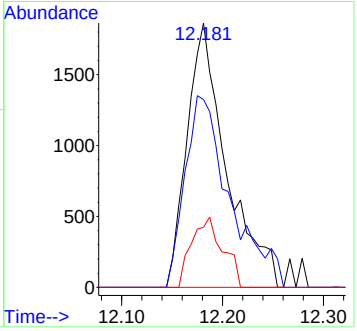


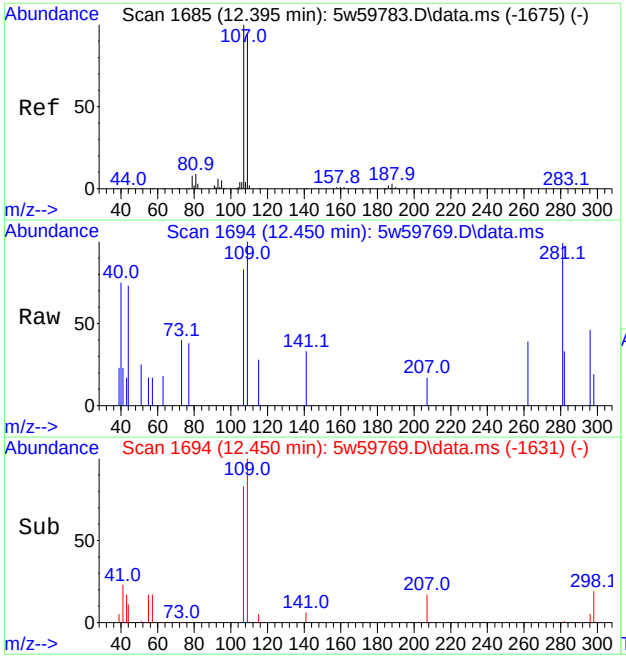


#74
DIBROMOCHLOROMETHANE
Concen: 0.04 PPBV
RT: 12.181 min Scan# 1650
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:129 Resp: 5067

Ion	Ratio	Lower	Upper
129	100		
127	82.7	47.1	107.1
131	21.0	0.0	54.5

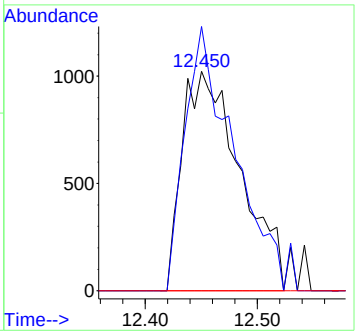


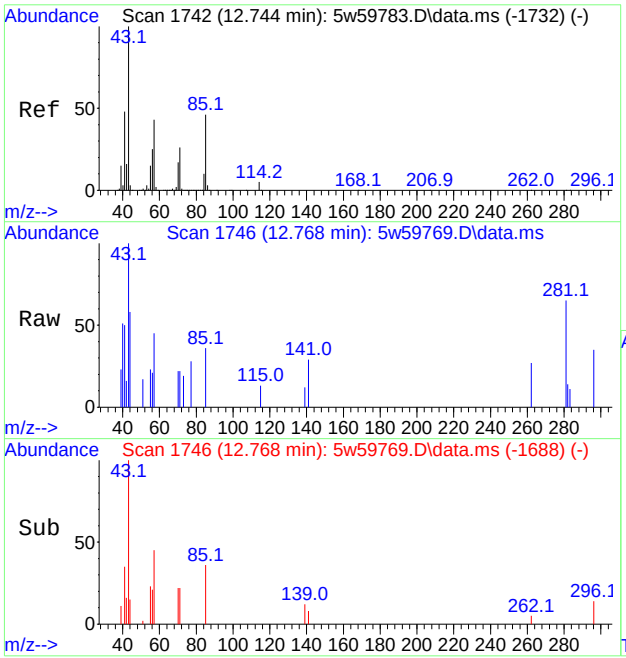


#75
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 12.450 min Scan# 1694
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:107 Resp: 3668

Ion	Ratio	Lower	Upper
107	100		
109	103.5	64.8	124.8
188	0.0	0.0	32.8

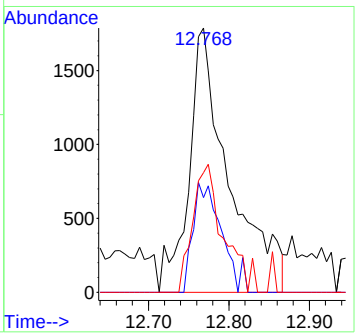


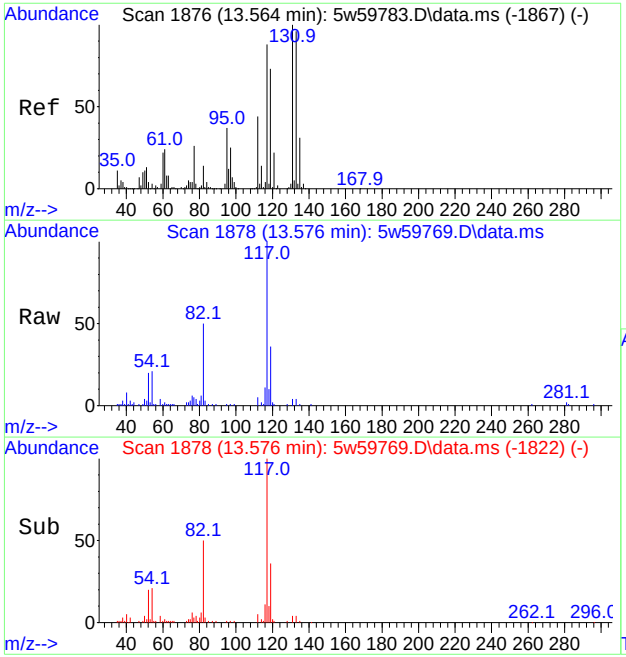


#76
OCTANE
Concen: 0.07 PPBV m
RT: 12.768 min Scan# 1746
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 6243

Ion	Ratio	Lower	Upper
43	100		
85	29.3	14.6	74.6
57	37.0	13.7	73.7

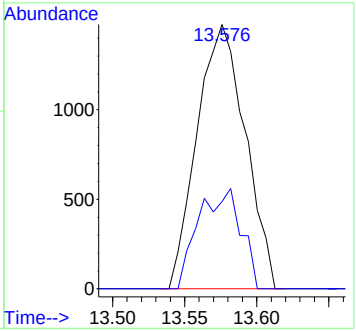


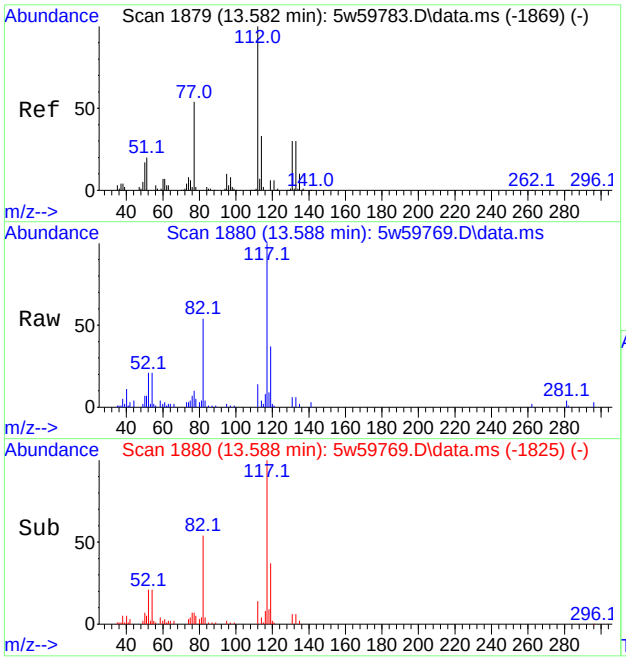


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:131 Resp: 3434

Ion	Ratio	Lower	Upper
131	100		
95	33.4	6.5	66.5

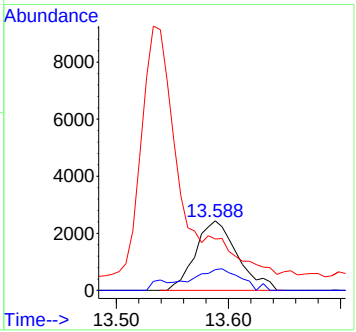


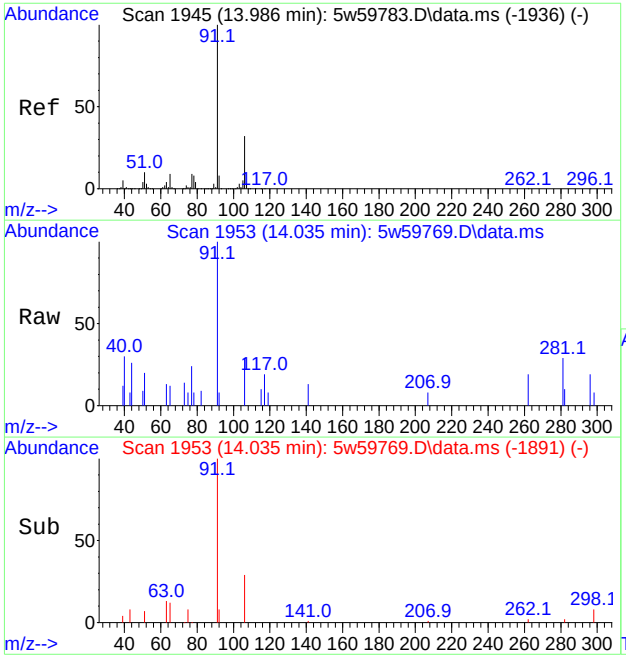


#78
CHLOROBENZENE
Concen: 0.05 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:112 Resp: 6320

Ion	Ratio	Lower	Upper
112	100		
114	30.4	2.6	62.6
77	0.0	25.4	85.4#

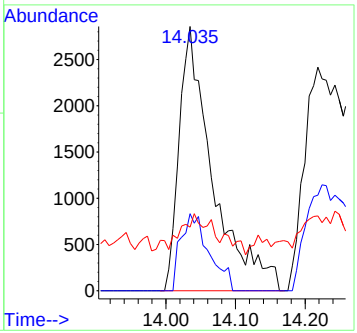


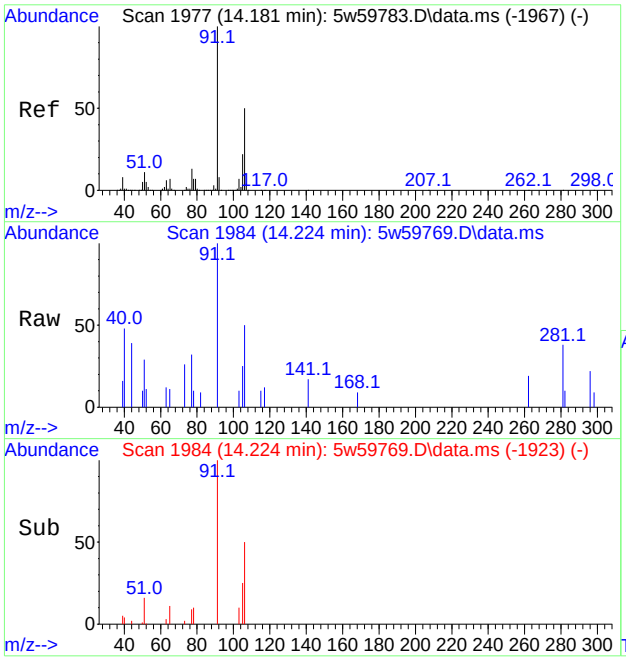


#79
ETHYLBENZENE
Concen: 0.05 PPBV
RT: 14.035 min Scan# 1953
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 9593

Ion	Ratio	Lower	Upper
91	100		
106	24.4	1.3	61.3
77	16.4	0.0	38.6

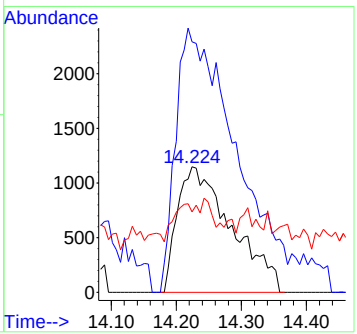


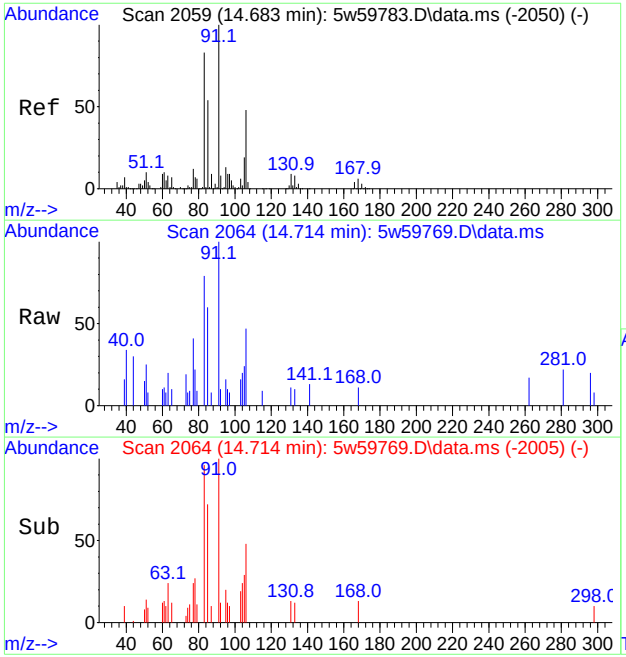


#80
m,p-XYLENE
Concen: 0.08 PPBV
RT: 14.224 min Scan# 1984
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 6608

Ion	Ratio	Lower	Upper
106	100		
91	199.7	171.0	231.0
77	64.2	0.0	56.7#

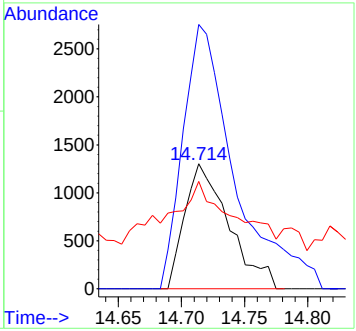


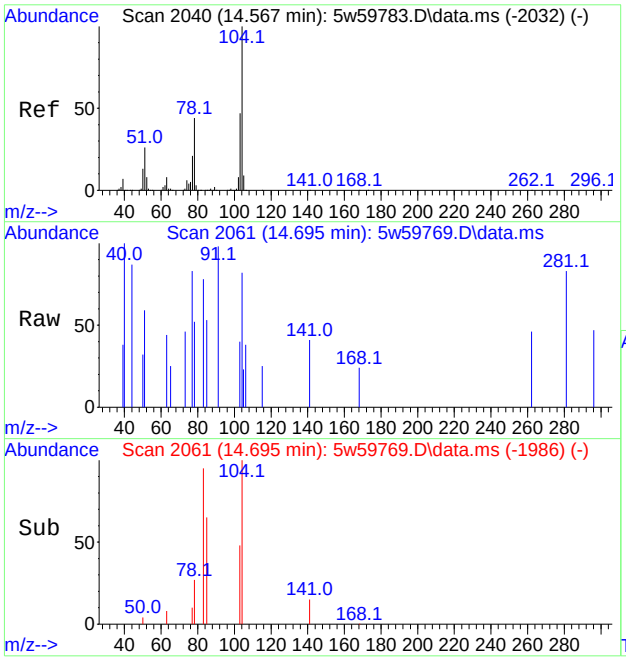


#81
o-XYLENE
Concen: 0.04 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 3154

Ion	Ratio	Lower	Upper
106	100		
91	249.6	181.6	241.6#
77	92.1	0.0	56.6#

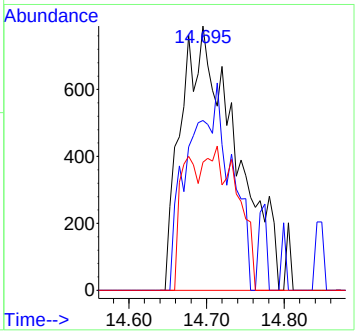


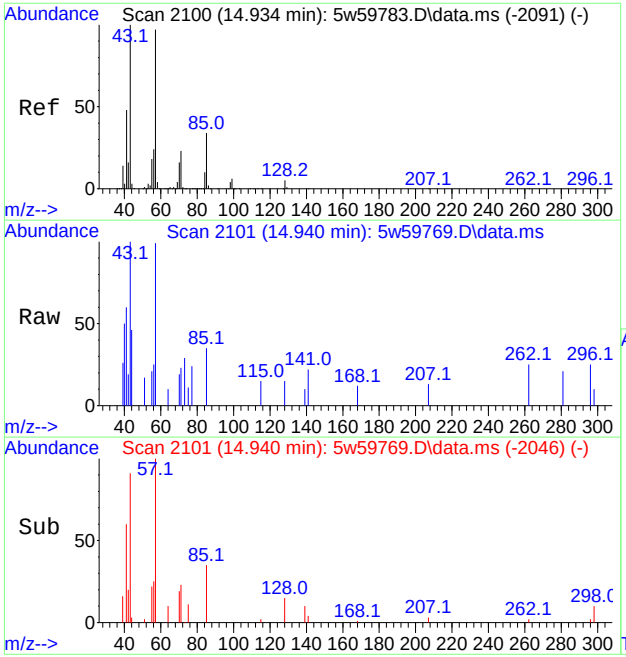


#82
STYRENE
Concen: 0.03 PPBV
RT: 14.695 min Scan# 2061
Delta R.T. 0.128 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:104 Resp: 3881

Ion	Ratio	Lower	Upper
104	100		
78	60.7	13.3	73.3
103	51.1	17.2	77.2

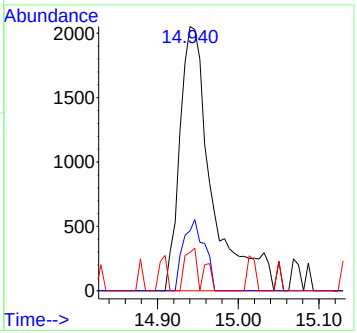


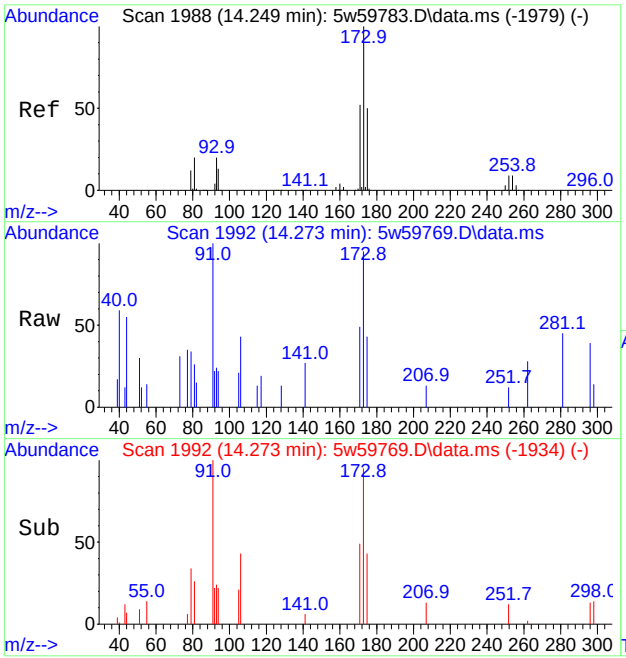


#83
NONANE
Concen: 0.06 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 5771

Ion	Ratio	Lower	Upper
43	100		
71	17.4	0.0	52.7
128	5.8	0.0	34.7

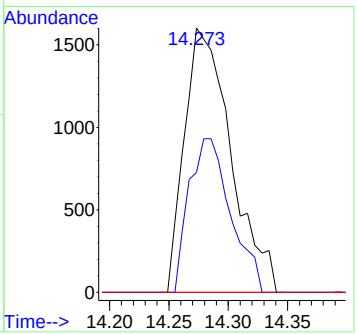


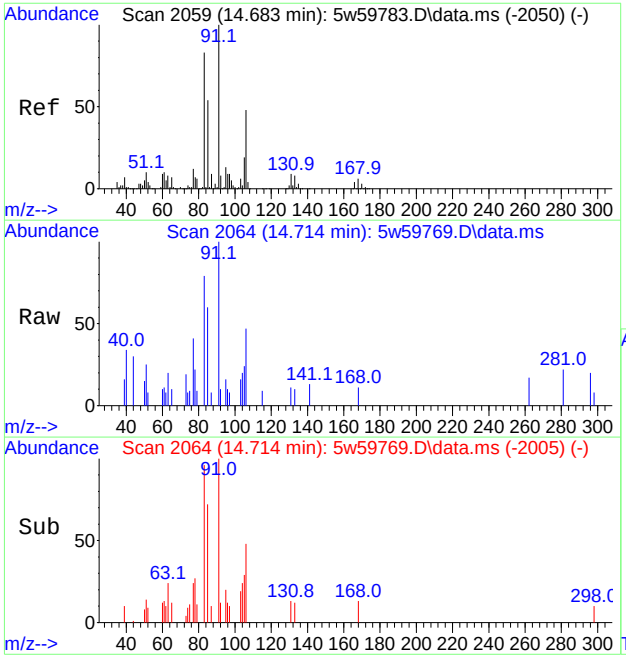


#84
BROMOFORM
Concen: 0.04 PPBV
RT: 14.273 min Scan# 1992
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:173 Resp: 4371

Ion	Ratio	Lower	Upper
173	100		
175	52.0	19.6	79.6
254	0.0	0.0	39.0

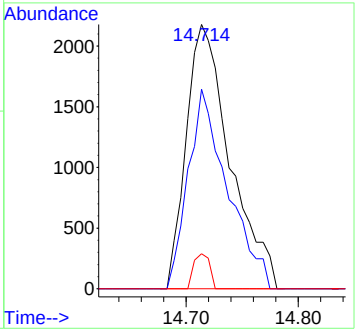


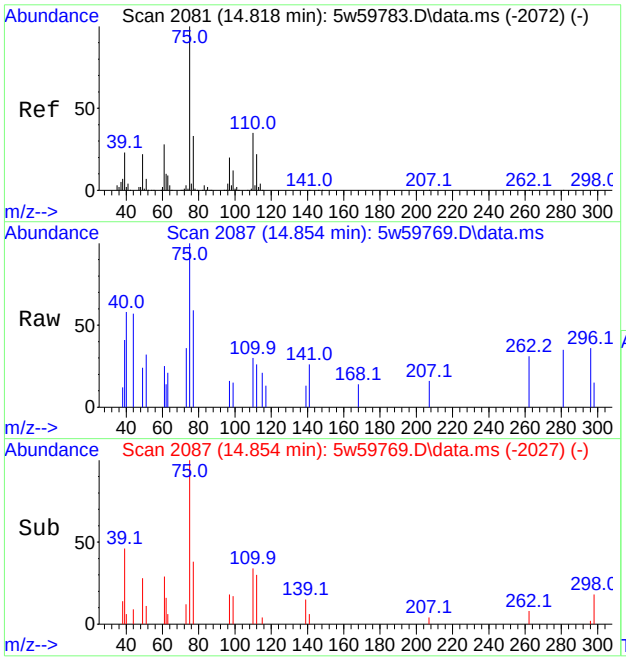


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.05 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 5918

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	4.8	0.0	40.3

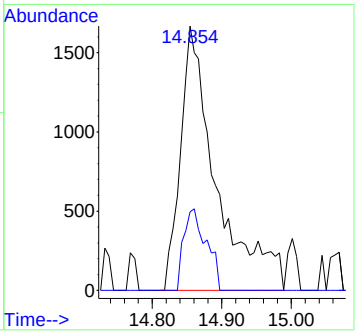


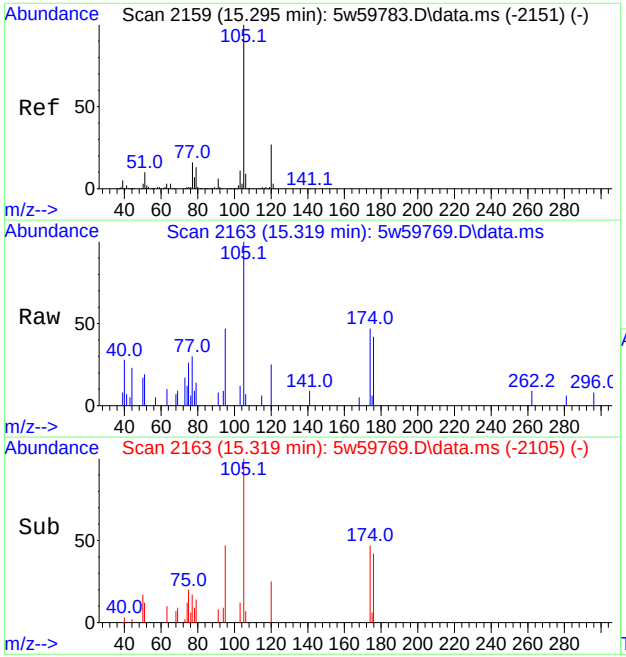


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.06 PPBV
RT: 14.854 min Scan# 2087
Delta R.T. 0.036 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 5967

Ion	Ratio	Lower	Upper
75	100		
110	19.5	4.4	64.4

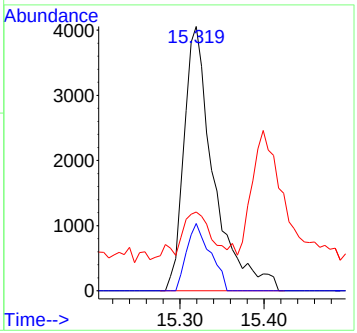


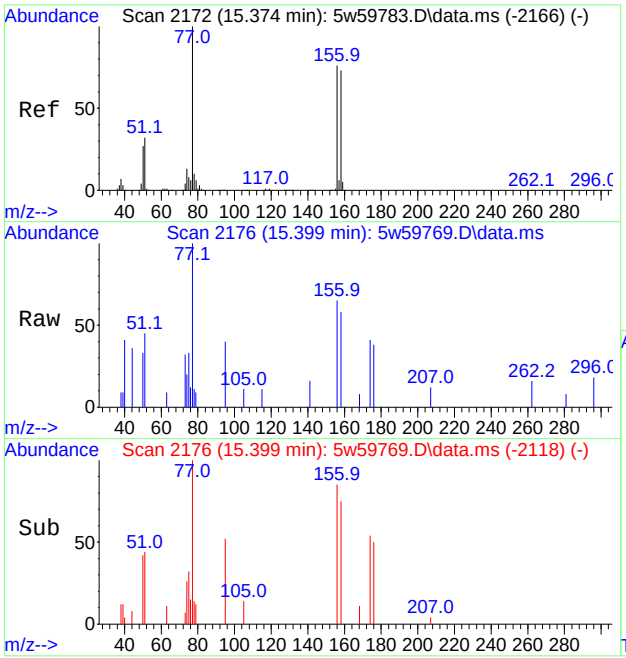


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.319 min Scan# 2163
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9953

Ion	Ratio	Lower	Upper
105	100		
120	20.2	0.0	56.0
77	22.4	0.0	45.6

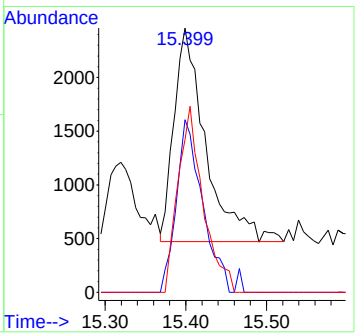


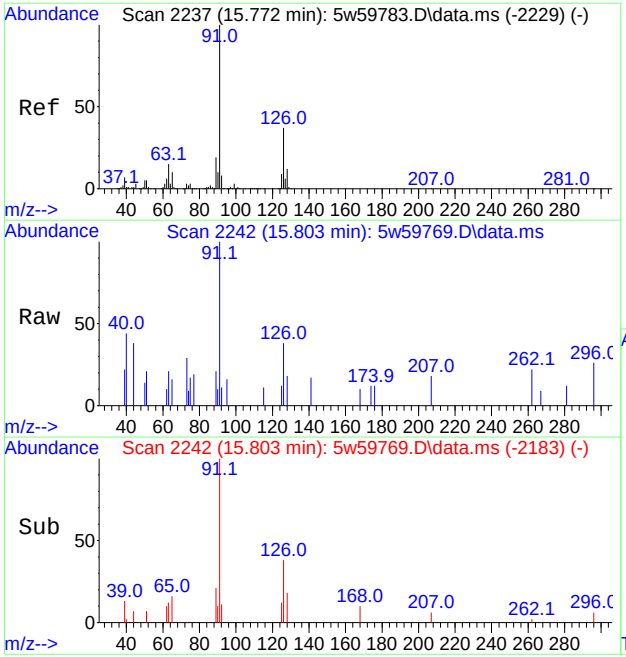


#89
BROMOBENZENE
Concen: 0.05 PPBV
RT: 15.399 min Scan# 2176
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 77 Resp: 5423

Ion	Ratio	Lower	Upper
77	100		
156	66.4	54.9	101.9
158	69.0	53.5	99.3

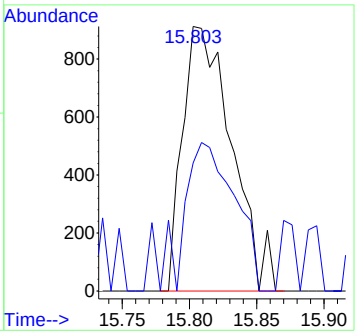


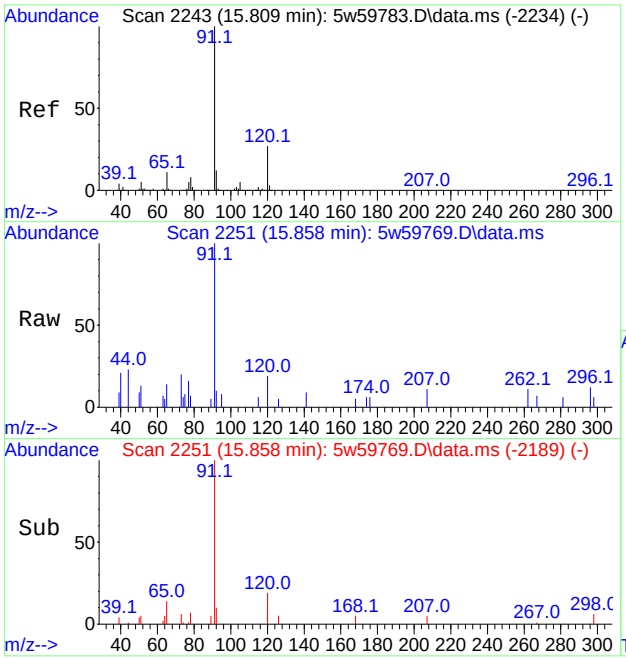


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 15.803 min Scan# 2242
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:126 Resp: 2313

Ion	Ratio	Lower	Upper
126	100		
128	53.8	2.7	62.7

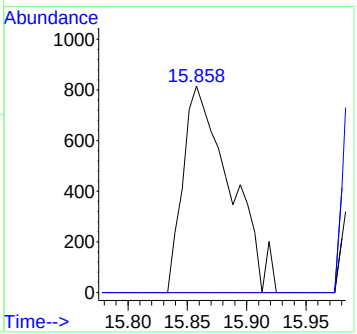


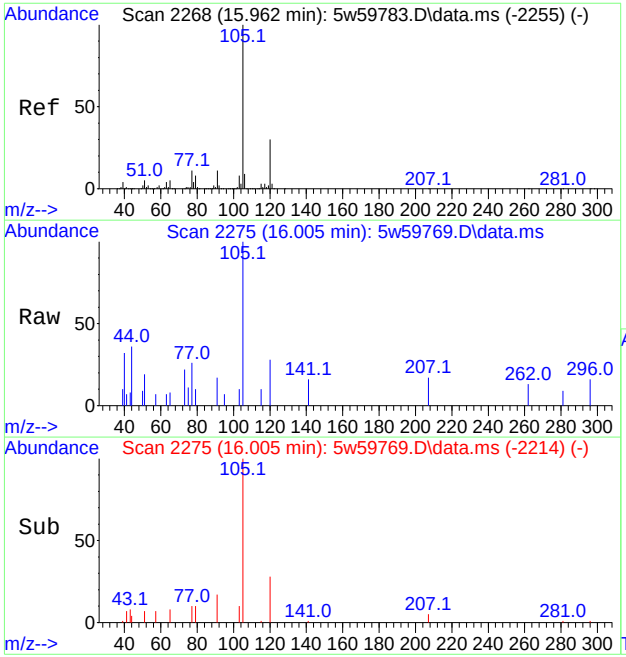


#91
n-PROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.858 min Scan# 2251
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:120 Resp: 2252

Ion	Ratio	Lower	Upper
120	100		
105	0.0	0.0	47.0

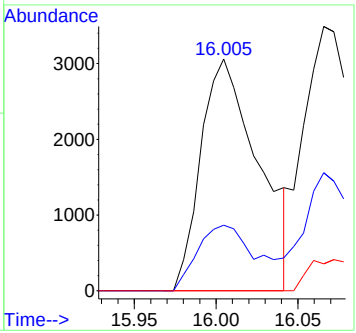


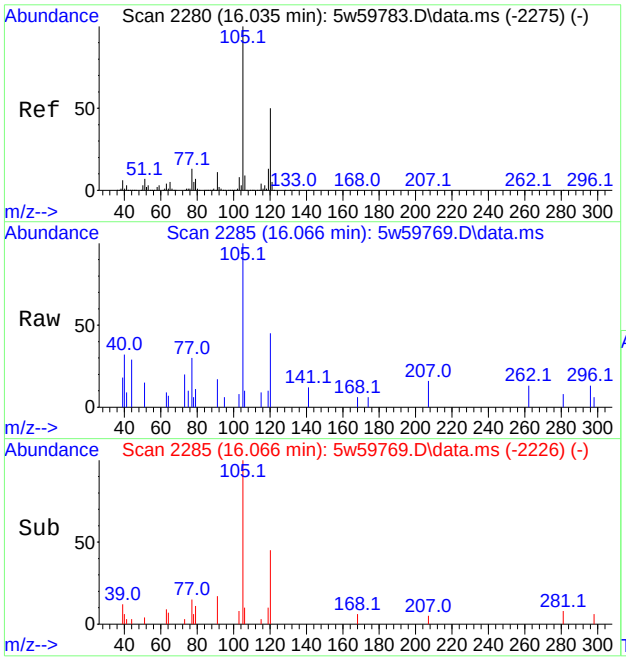


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV m
RT: 16.005 min Scan# 2275
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 7489

Ion	Ratio	Lower	Upper
105	100		
120	55.0	0.0	59.9
119	12.2	0.0	32.3

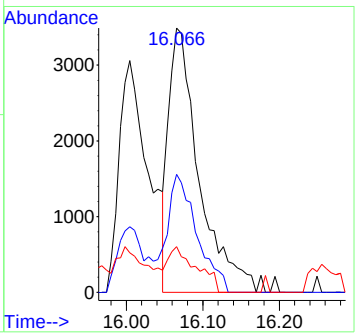


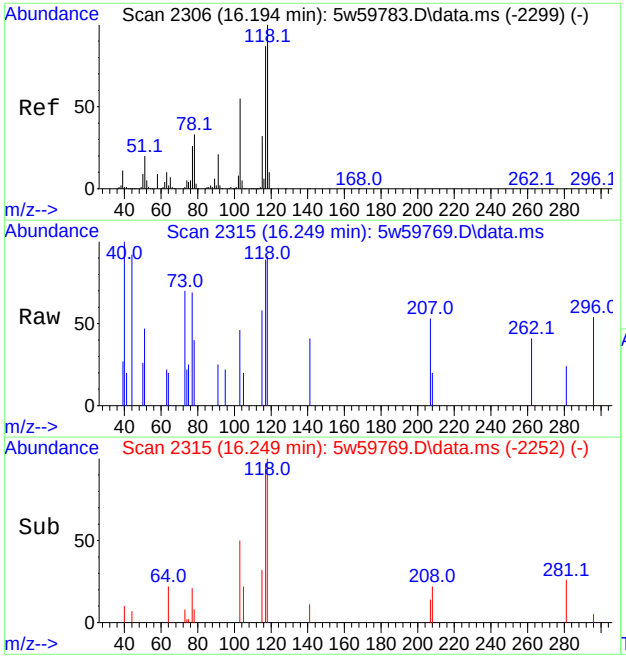


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.05 PPBV m
RT: 16.066 min Scan# 2285
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9751

Ion	Ratio	Lower	Upper
105	100		
120	23.3	19.4	79.4
91	17.0	0.0	40.8

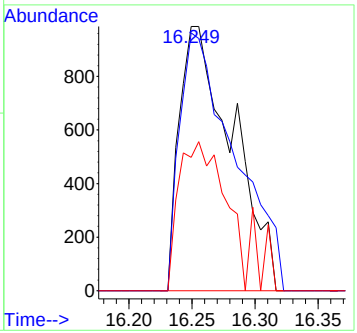


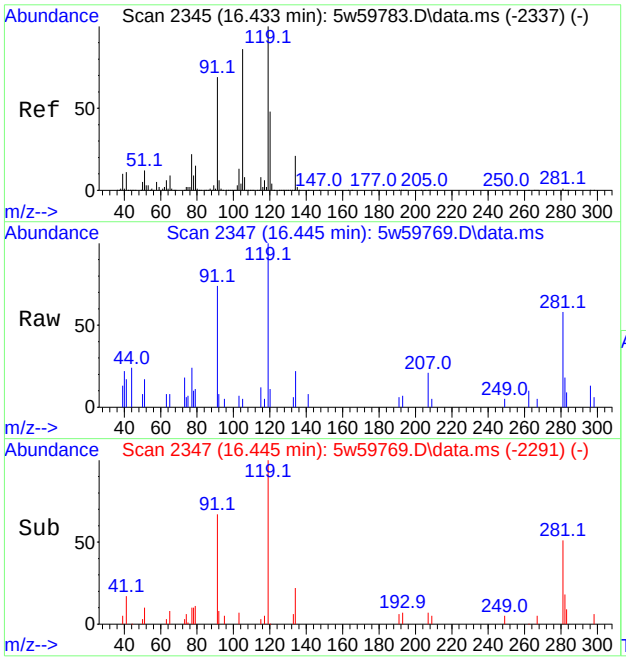


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.249 min Scan# 2315
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:118 Resp: 2895

Ion	Ratio	Lower	Upper
118	100		
117	100.8	60.9	113.1
103	48.7	38.6	71.8

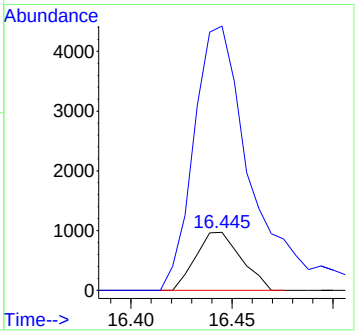


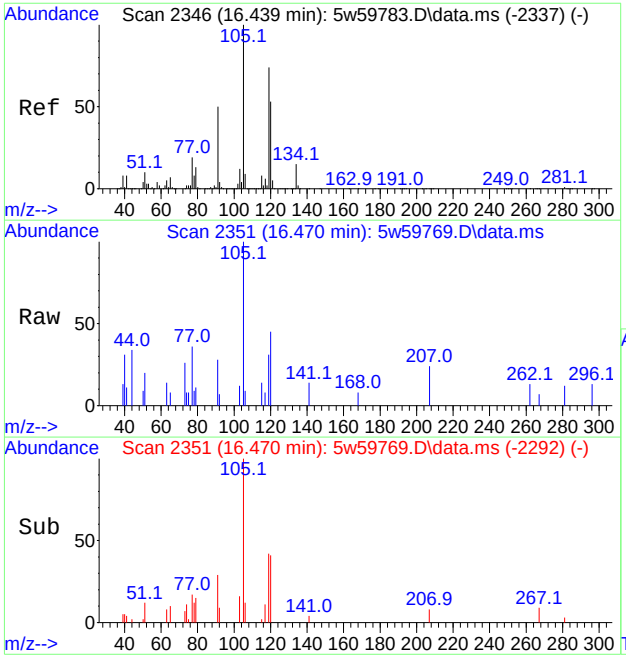


#95
tert-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1525

Ion	Ratio	Lower	Upper
134	100		
119	590.2	459.3	519.3#

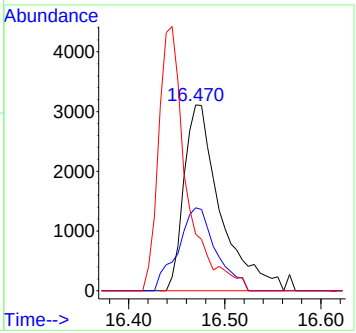


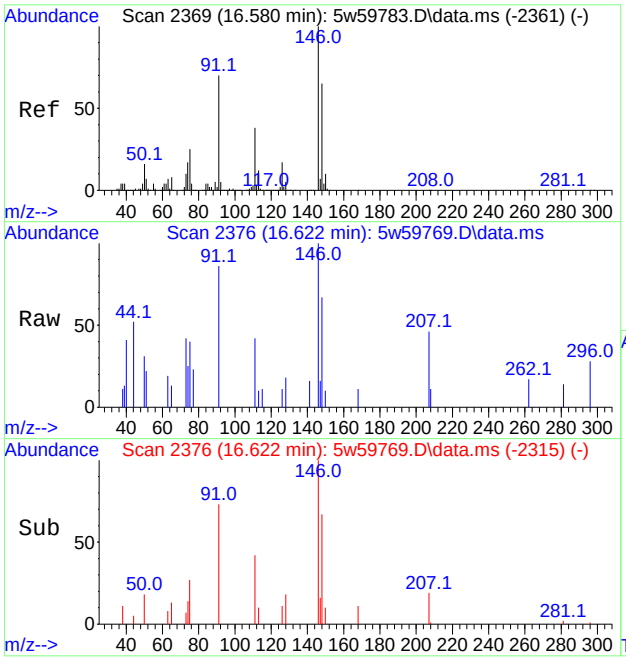


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.05 PPBV
RT: 16.470 min Scan# 2351
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8180

Ion	Ratio	Lower	Upper
105	100		
120	46.7	25.7	85.7
119	0.0	75.7	135.7#

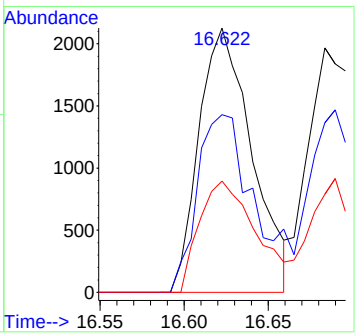


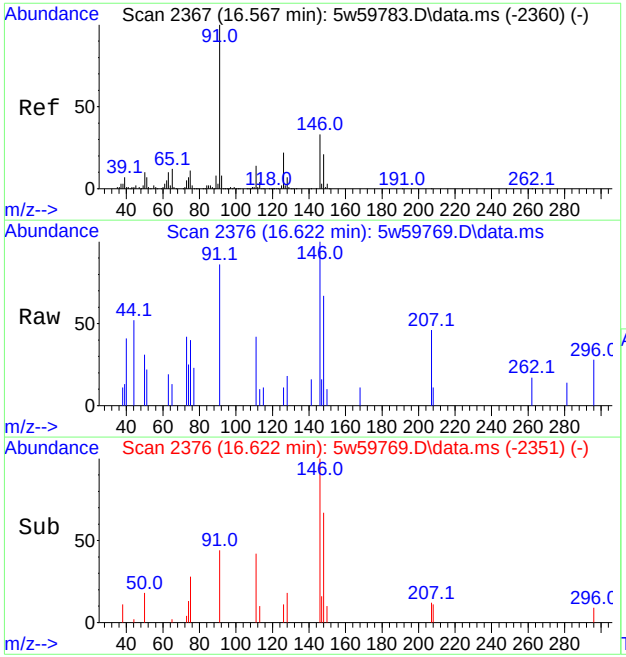


#97
m-DICHLOROBENZENE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.042 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 4669

Ion	Ratio	Lower	Upper
146	100		
148	73.3	34.8	94.8
111	44.7	8.2	68.2

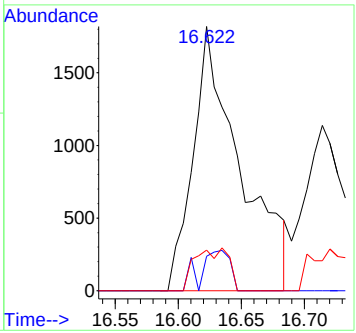


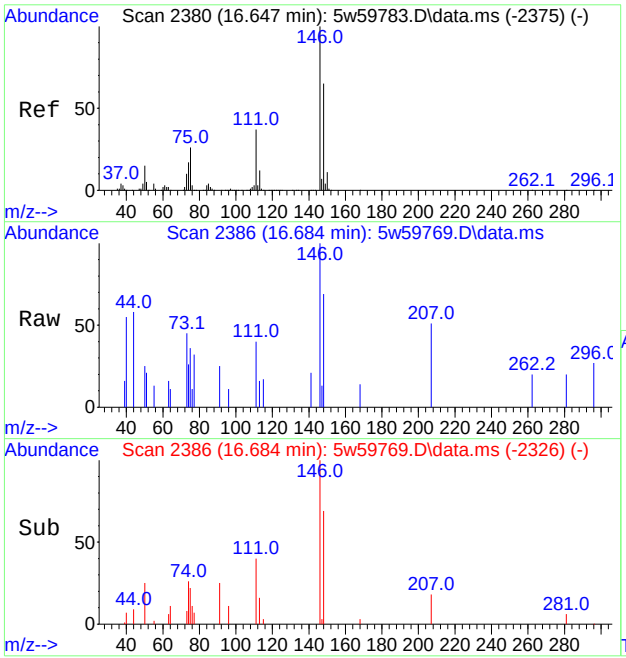


#98
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 4703

Ion	Ratio	Lower	Upper
91	100		
126	9.6	0.0	51.7
65	11.6	0.0	42.2

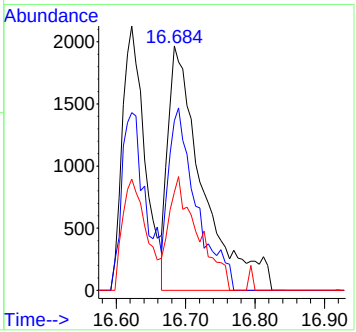


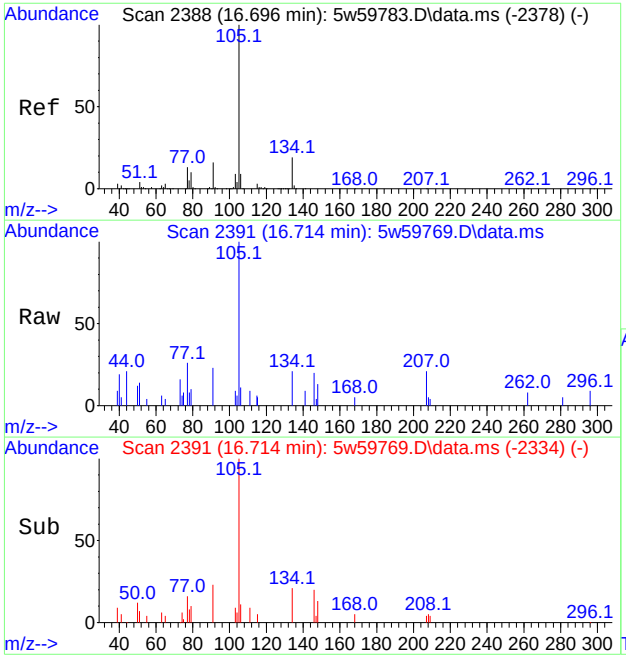


#99
p-DICHLOROBENZENE
Concen: 0.05 PPBV m
RT: 16.684 min Scan# 2386
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 6829

Ion	Ratio	Lower	Upper
146	100		
148	50.1	34.6	94.6
111	30.5	6.7	66.7

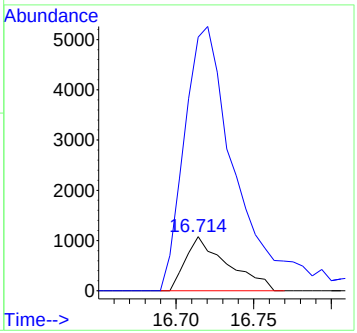


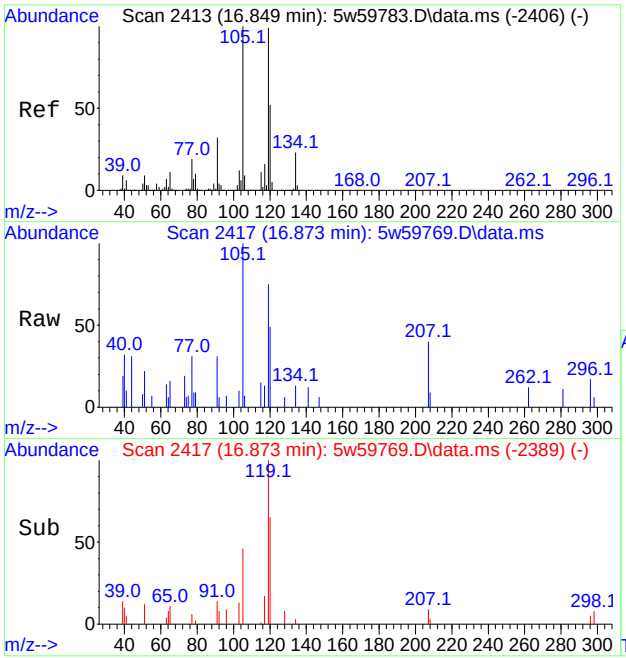


#100
sec-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.714 min Scan# 2391
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2023

Ion	Ratio	Lower	Upper
134	100		
105	613.6	502.5	562.5#

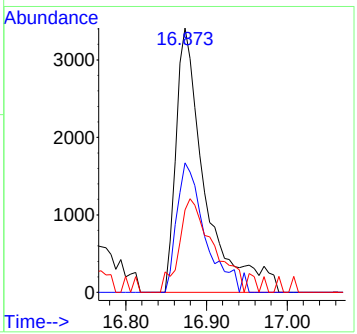


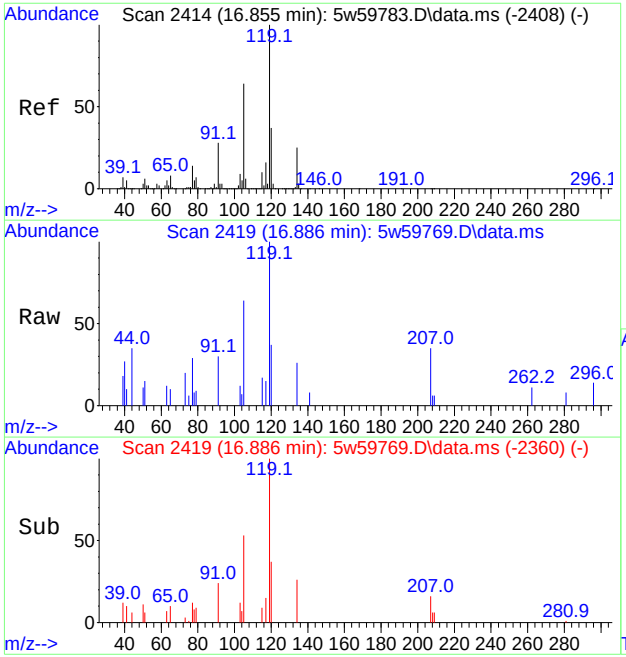


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.873 min Scan# 2417
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8480

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	41.5	7.4	67.4

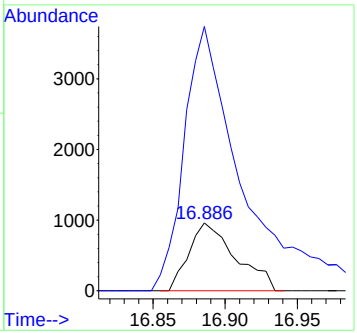


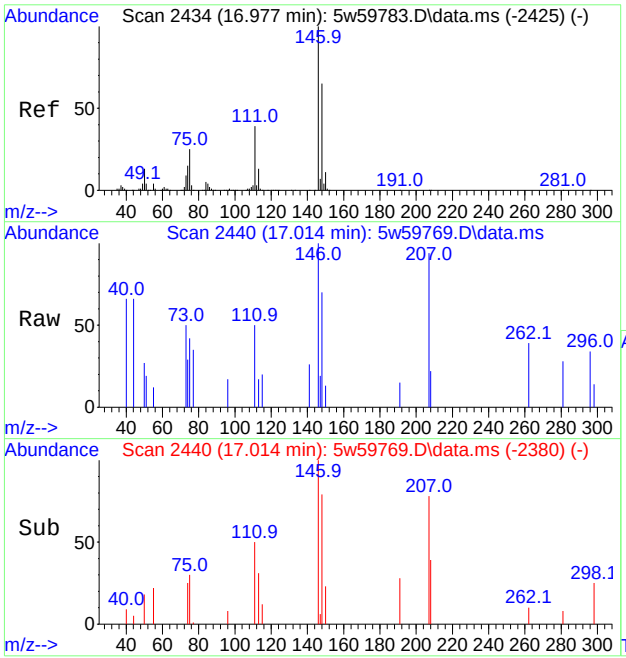


#102
p-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 16.886 min Scan# 2419
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2164

Ion	Ratio	Lower	Upper
134	100		
119	504.7	377.7	437.7#

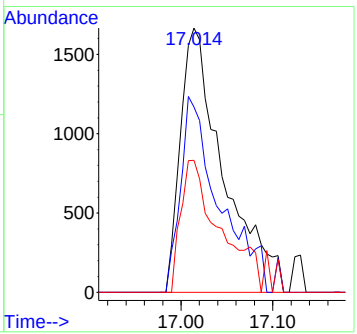


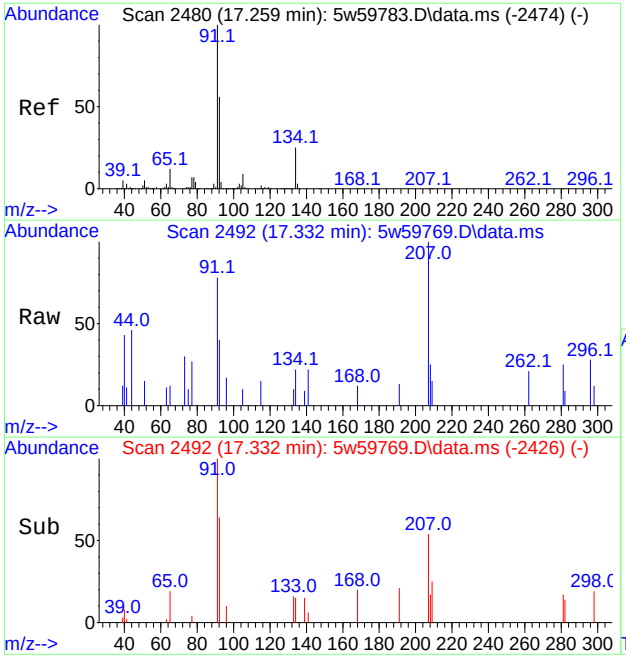


#103
o-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 17.014 min Scan# 2440
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 5480

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.3	94.3
111	45.3	9.2	69.2

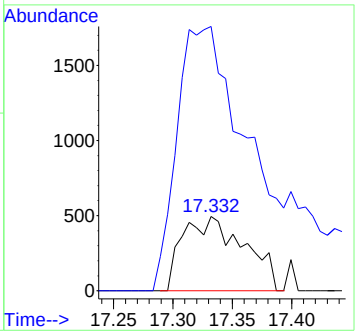


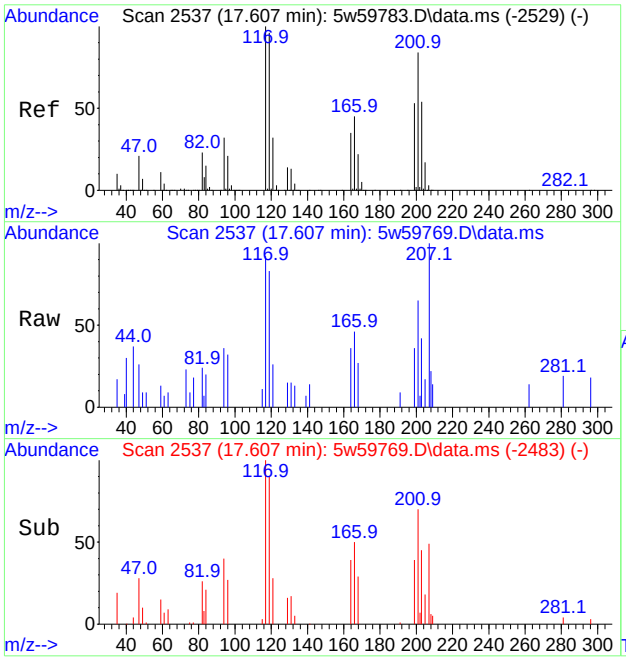


#104
n-BUTYLBENZENE
Concen: 0.03 PPBV
RT: 17.332 min Scan# 2492
Delta R.T. 0.073 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1780

Ion	Ratio	Lower	Upper
134	100		
91	517.0	363.1	423.1#

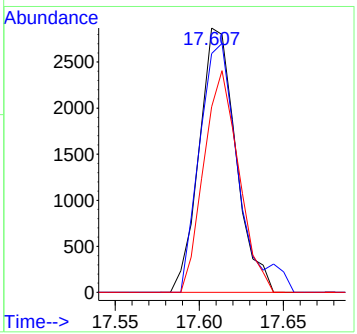


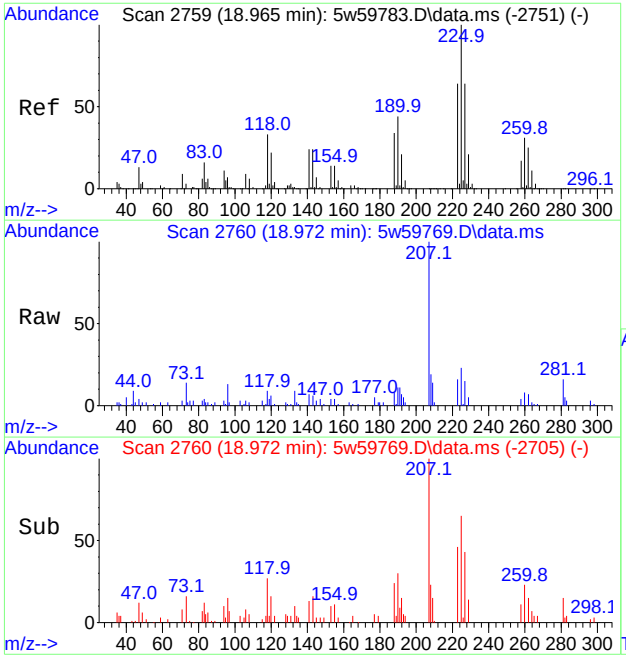


#105
HEXACHLOROETHANE
Concen: 0.05 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4357

Ion	Ratio	Lower	Upper
117	100		
119	99.3	67.2	124.8
201	80.2	61.1	113.5

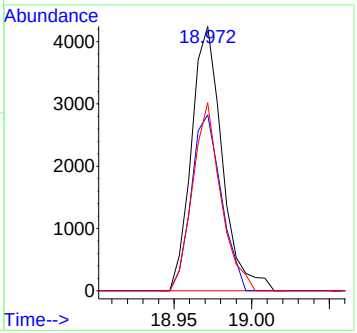


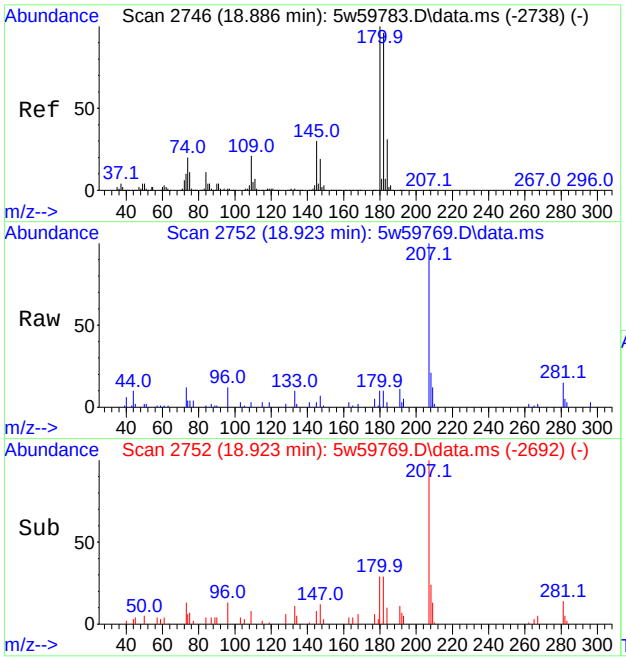


#106
HEXACHLOROBUTADIENE
Concen: 0.05 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:225 Resp: 5840

Ion	Ratio	Lower	Upper
225	100		
227	65.1	34.2	94.2
223	65.4	33.3	93.3

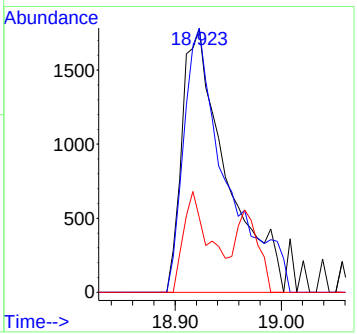


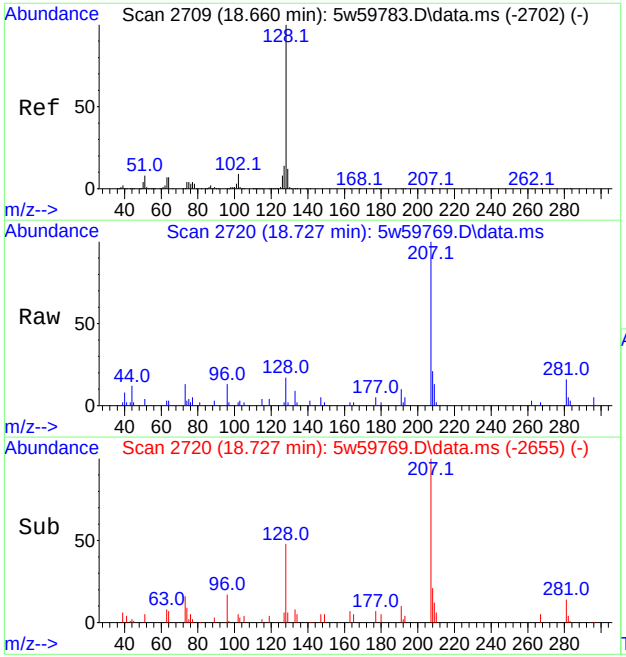


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.04 PPBV
RT: 18.923 min Scan# 2752
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:180 Resp: 5141

Ion	Ratio	Lower	Upper
180	100		
182	97.1	65.4	125.4
145	22.6	0.0	59.4

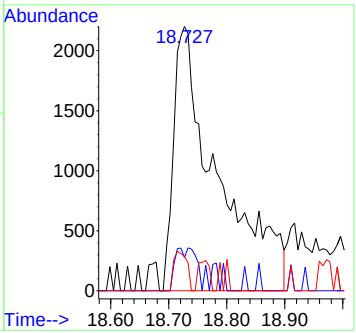


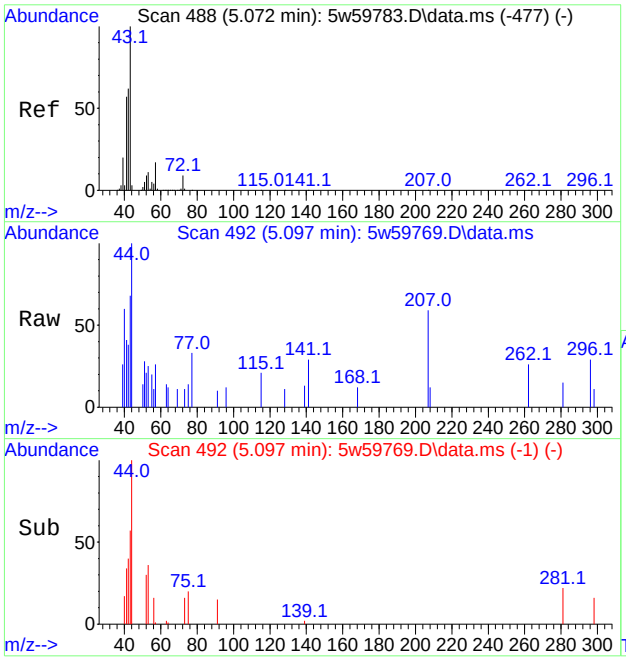


#108
NAPHTHALENE
Concen: 0.04 PPBV m
RT: 18.727 min Scan# 2720
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:128 Resp: 11614

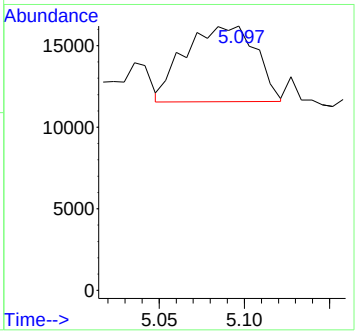
Ion	Ratio	Lower	Upper
128	100		
127	7.7	0.0	43.3
129	4.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.05 PPBV m
RT: 5.097 min Scan# 492
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:TIC Resp: 13430



Manual Integration Approval Summary

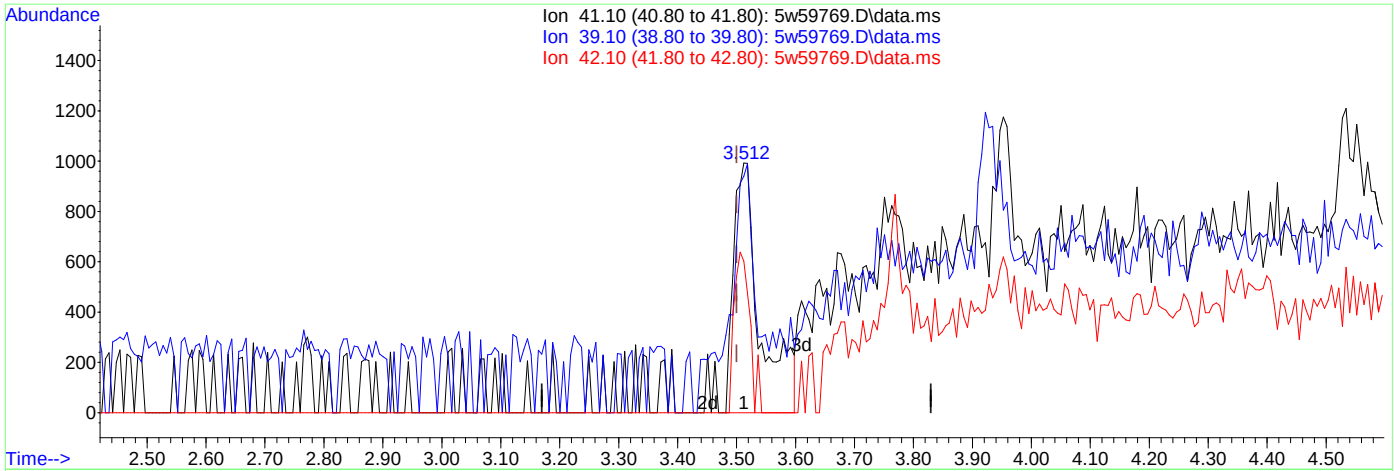
Sample Number: V5W2292-IC2292
Lab FileID: 5W59769.D
Injection Time: 11/06/25 22:35
Method: TO-15
Analyst approved: 11/07/25 21:30 Benjamin Kim
Supervisor approved: 11/10/25 12:57 Kanya Veerawat

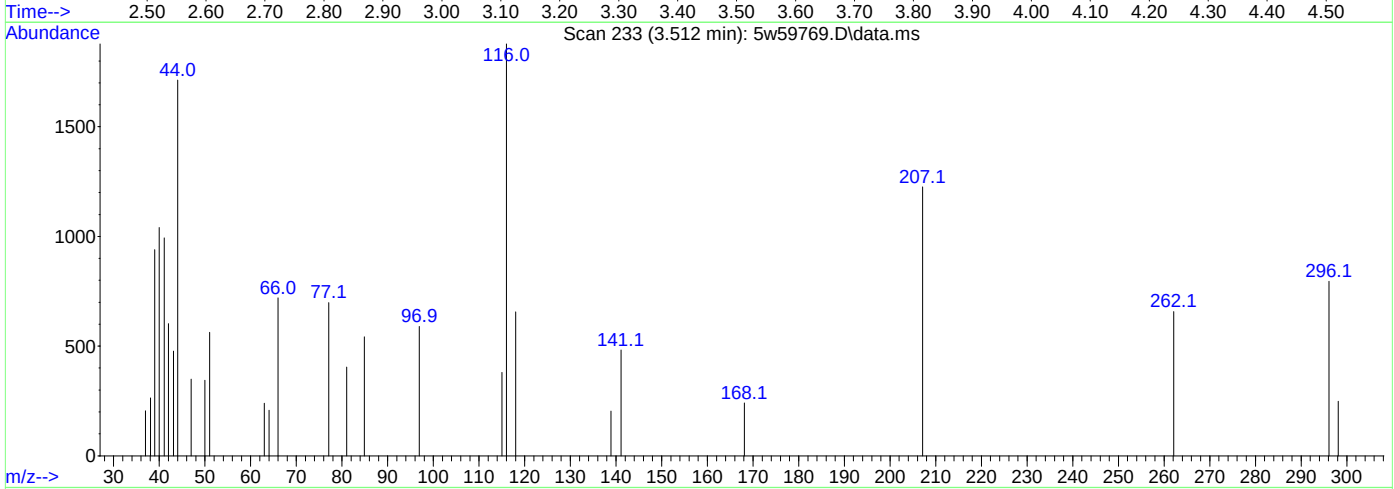
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propylene	115-07-1		3.51	Poor instrument integration
Freon 142B	75-68-3		3.65	Poor instrument integration
n-Butane	106-97-8		3.95	Poor instrument integration
Chloroethane	75-00-3		4.23	Poor instrument integration
Acrolein	107-02-8		4.62	Poor instrument integration
Isopropyl Alcohol	67-63-0		4.94	Poor instrument integration
TVHC As Equiv Pentane			5.10	Missed peak
trans-1,2-Dichloroethylene	156-60-5		6.25	Poor instrument integration
1,2-Dichloropropane	78-87-5		9.67	Poor instrument integration
Octane	111-65-9		12.77	Poor instrument integration
4-Ethyltoluene	622-96-8		16.00	Missed peak
1,3,5-Trimethylbenzene	108-67-8		16.07	Missed peak
p-Dichlorobenzene	106-46-7		16.68	Missed peak
Naphthalene	91-20-3		18.73	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.09PPBV

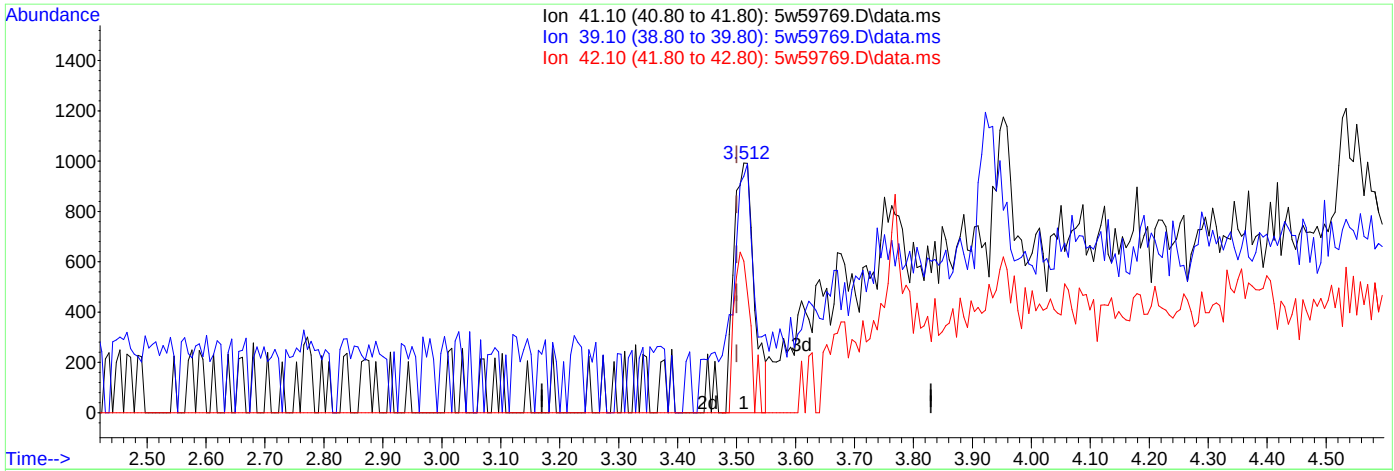
response 3070

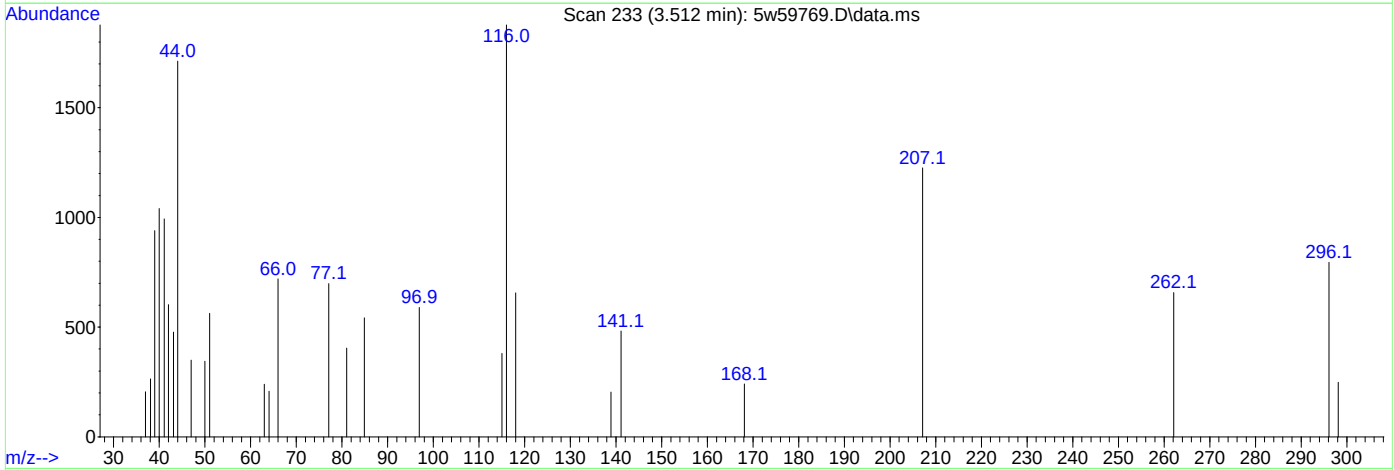
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	183.94#
42.10	66.30	38.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.07PPBV m

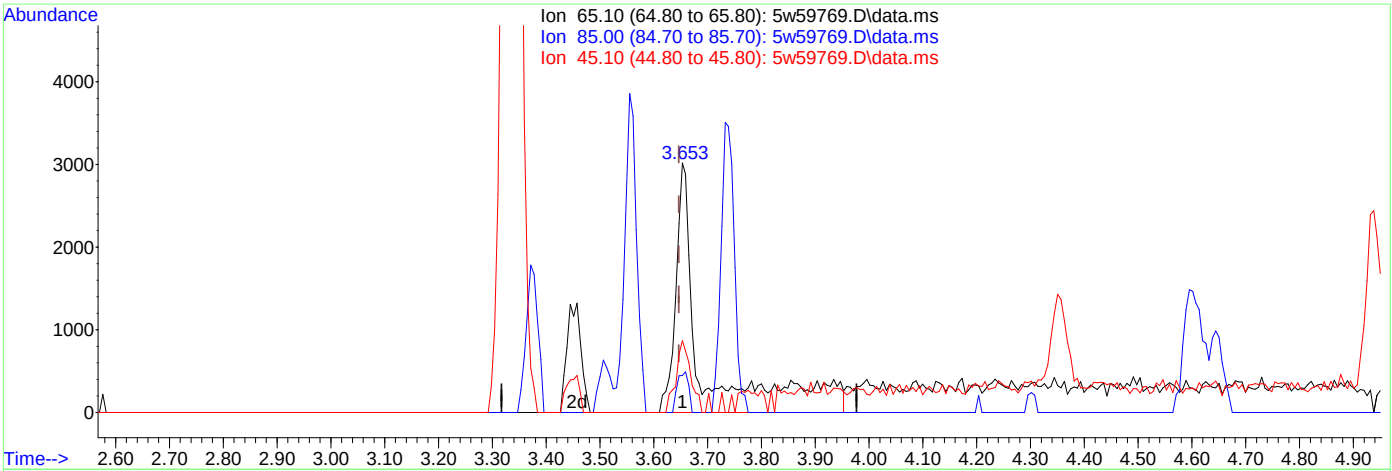
response 2388

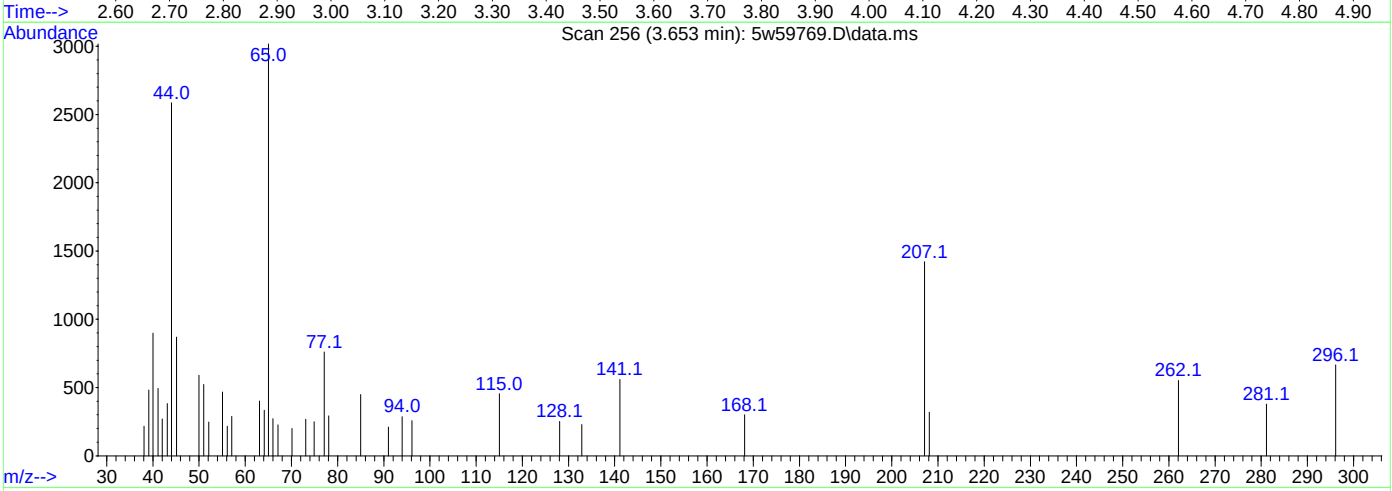
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	236.47#
42.10	66.30	49.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.10PPBV

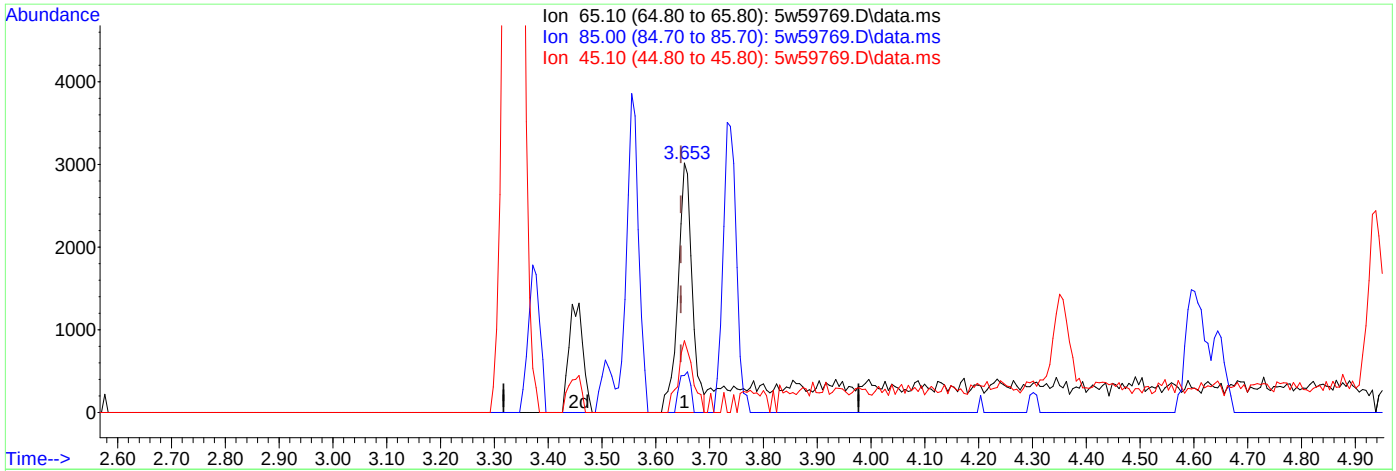
response 10348

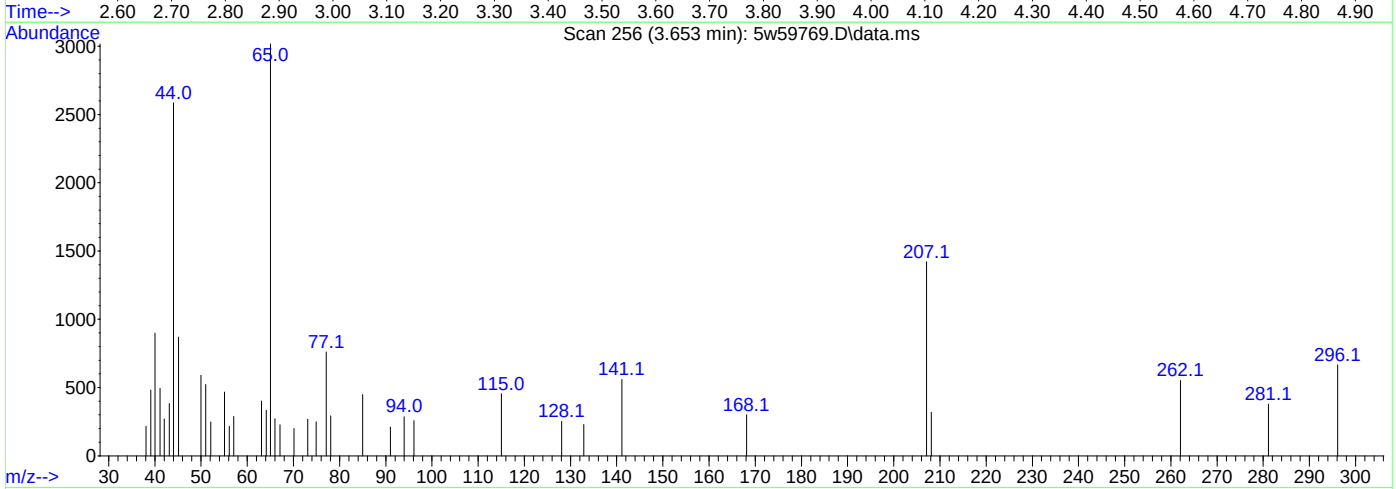
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	6.94#
45.10	20.00	16.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.05PPBV m

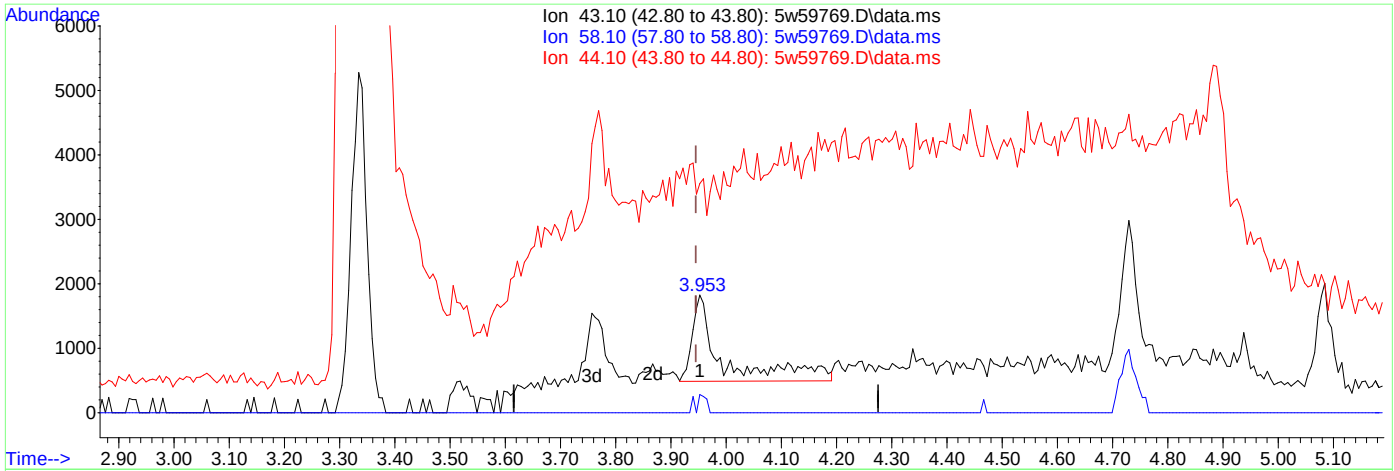
response 5550

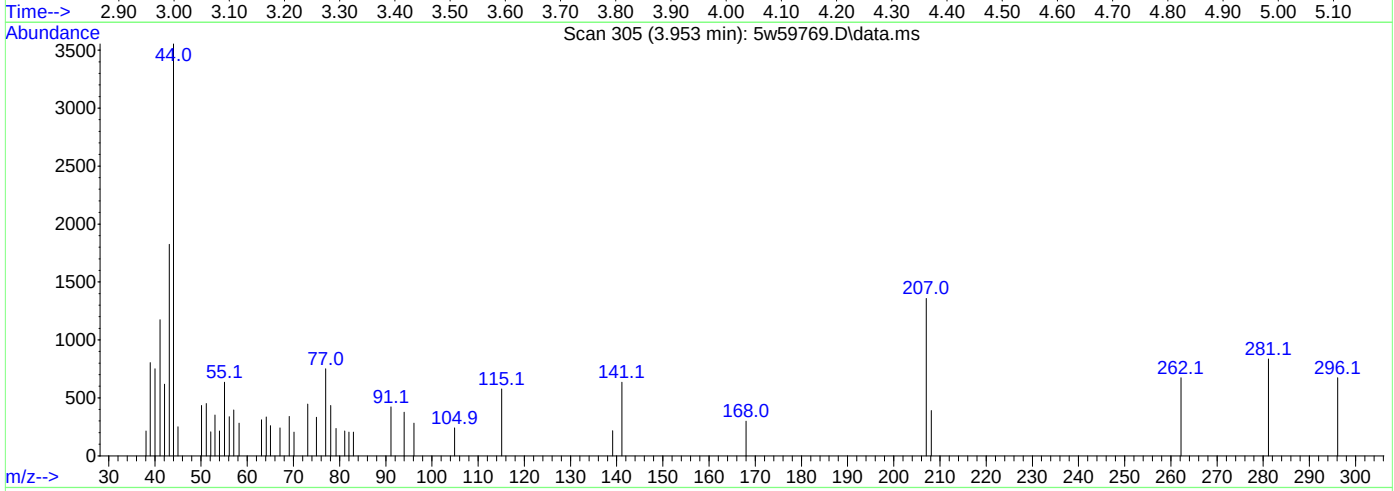
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	12.94
45.10	20.00	29.96#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.12PPBV

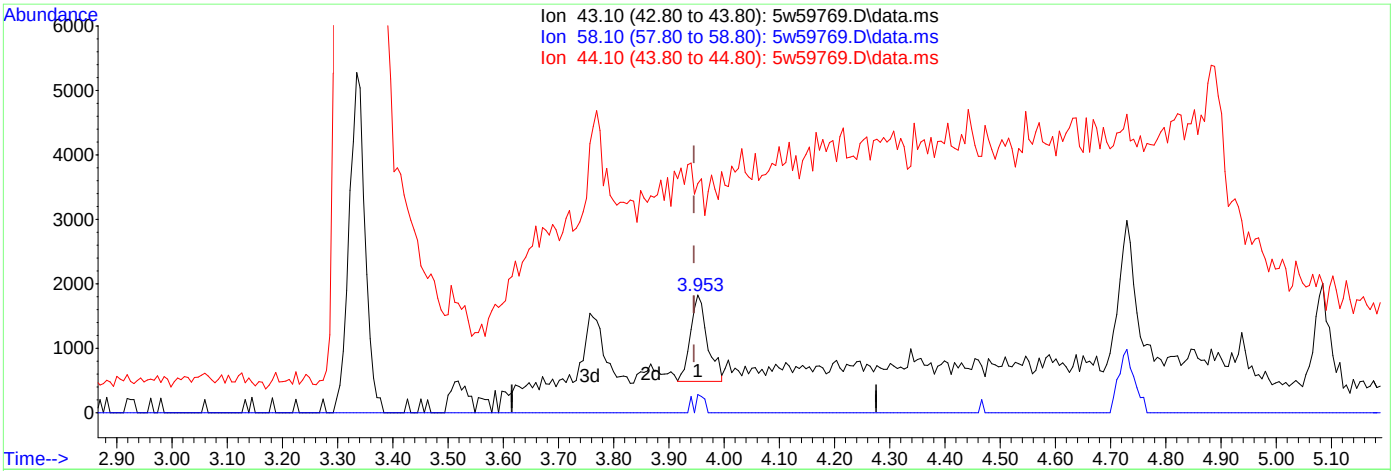
response 5032

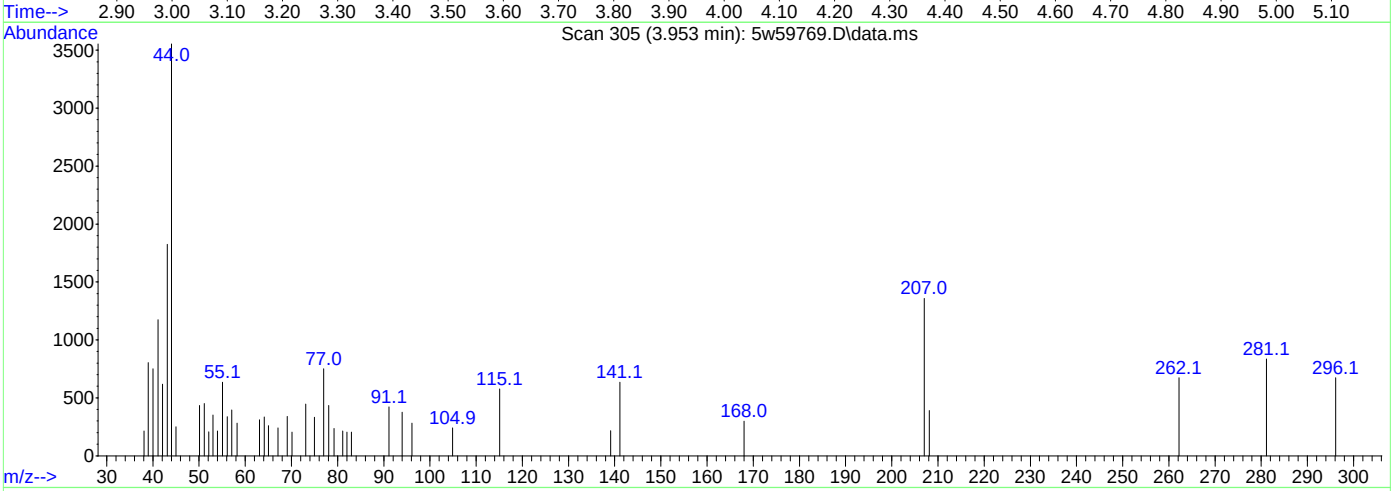
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	7.21
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.07PPBV m

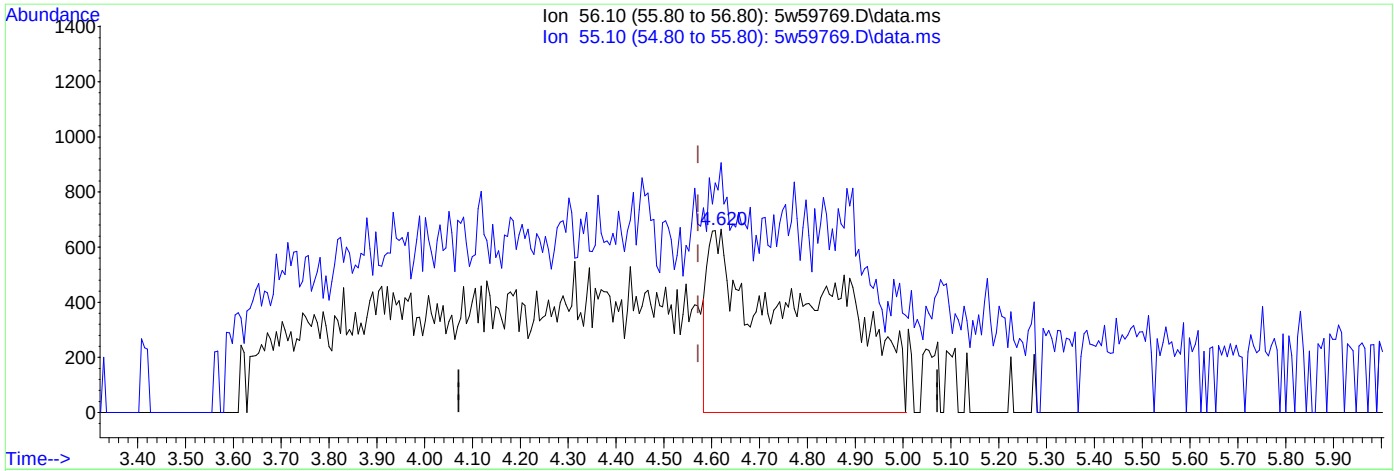
response 2825

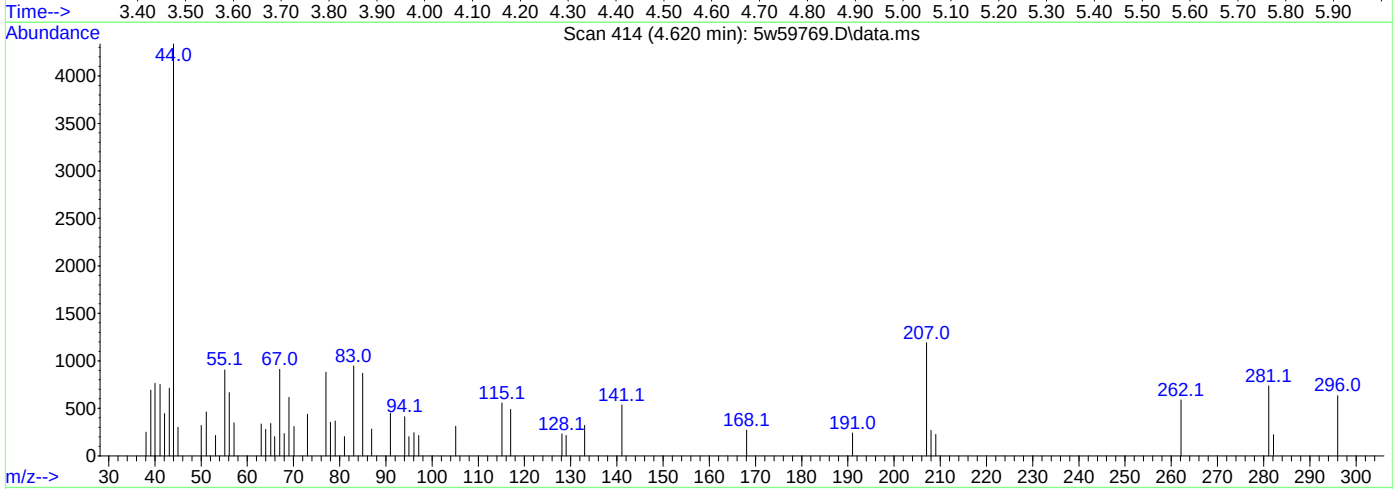
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	12.85
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.69PPBV

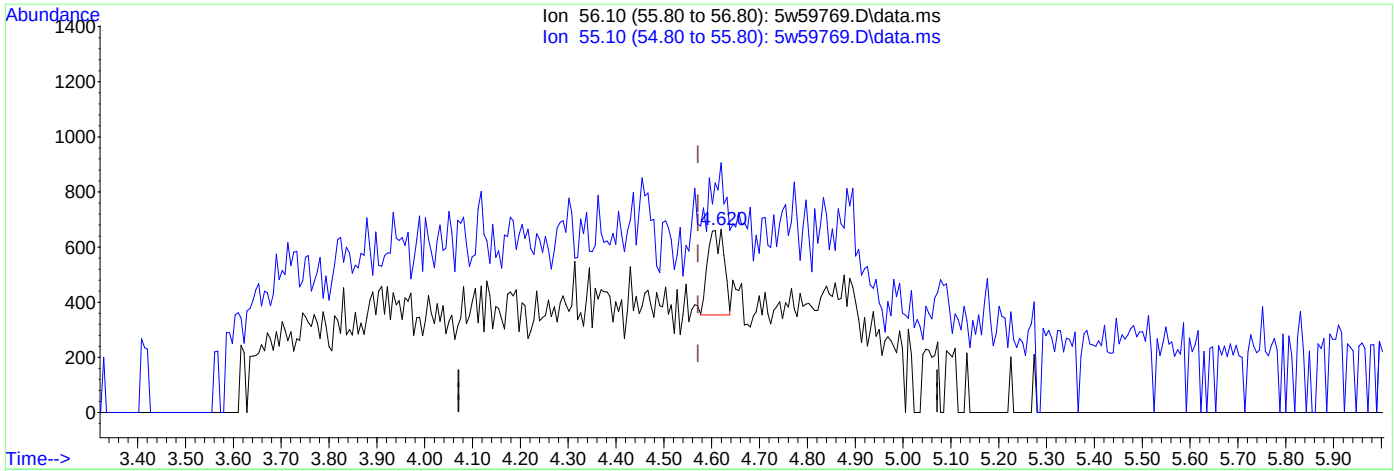
response 9827

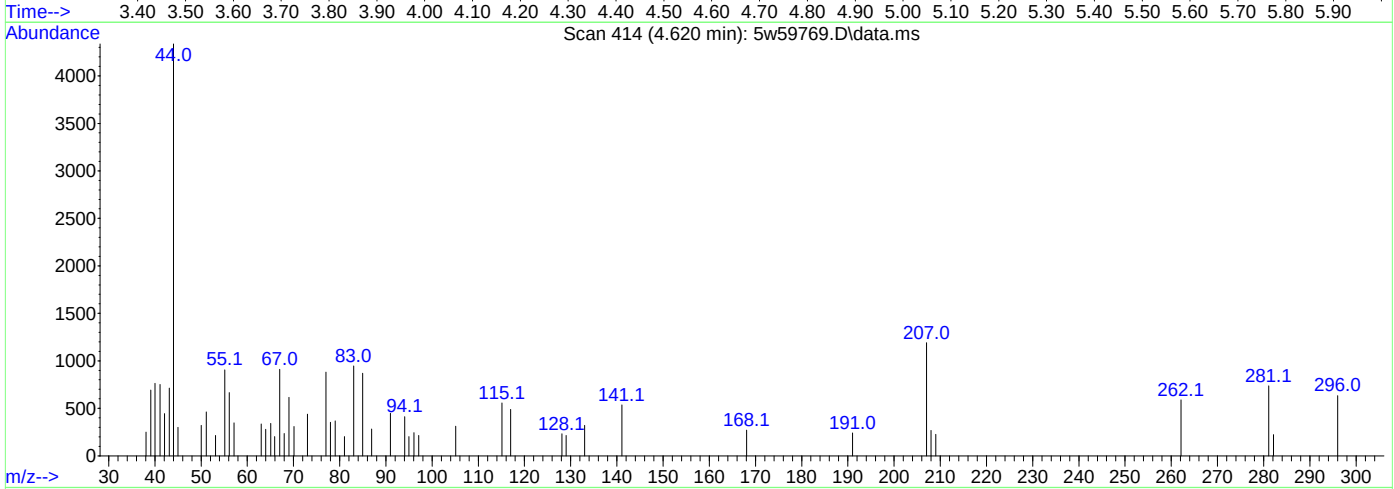
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	29.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.05PPBV m

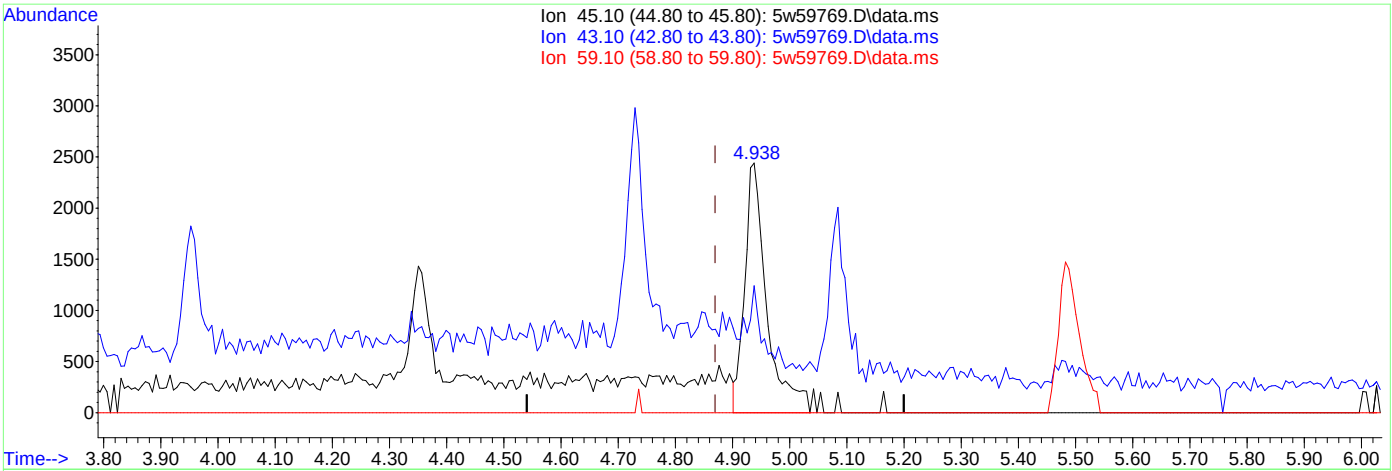
response 728

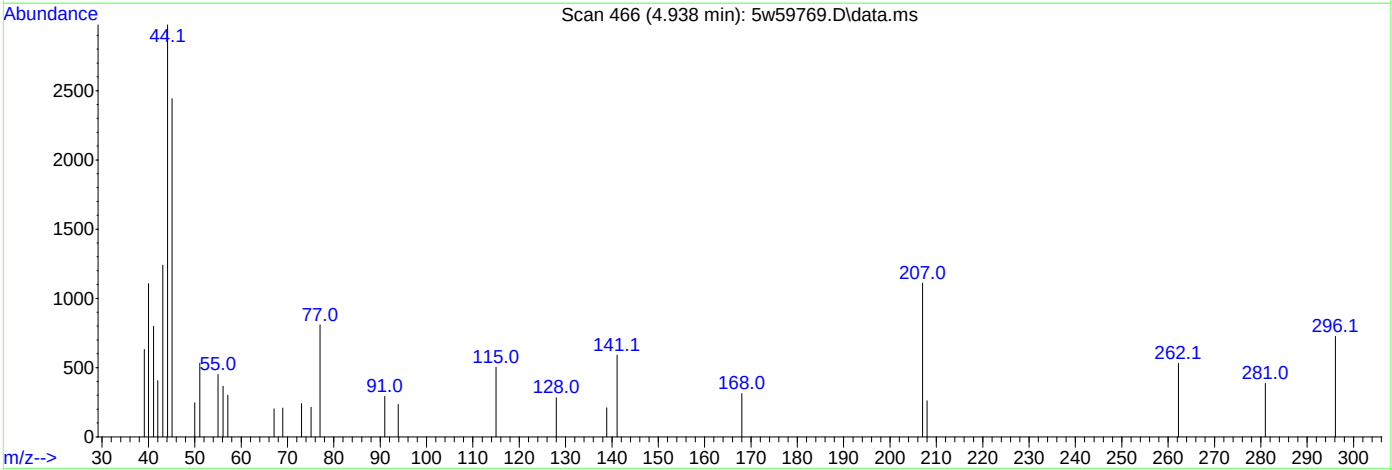
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	401.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.07PPBV

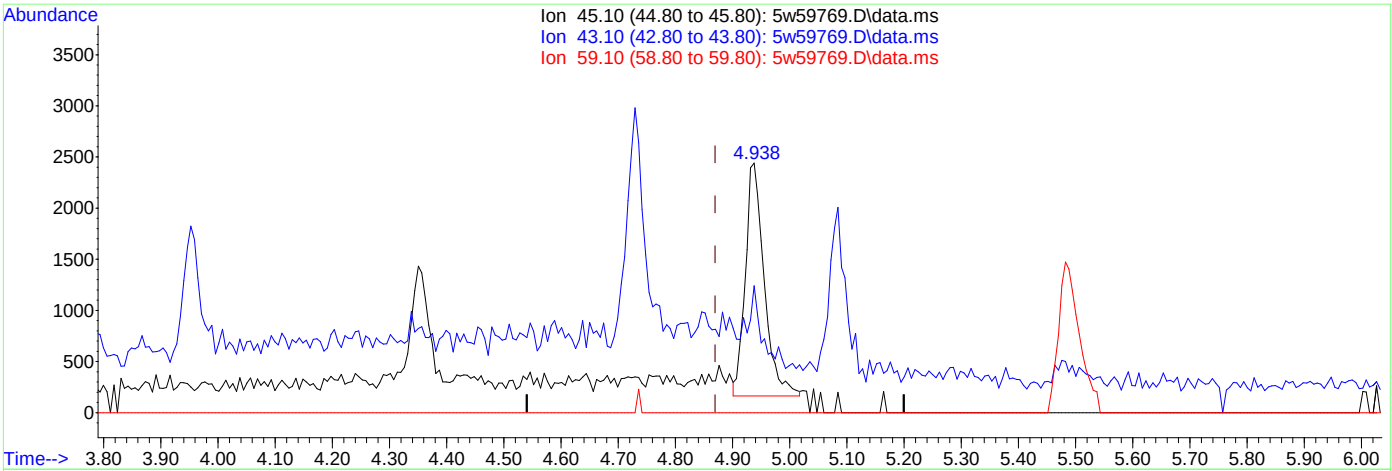
response 6511

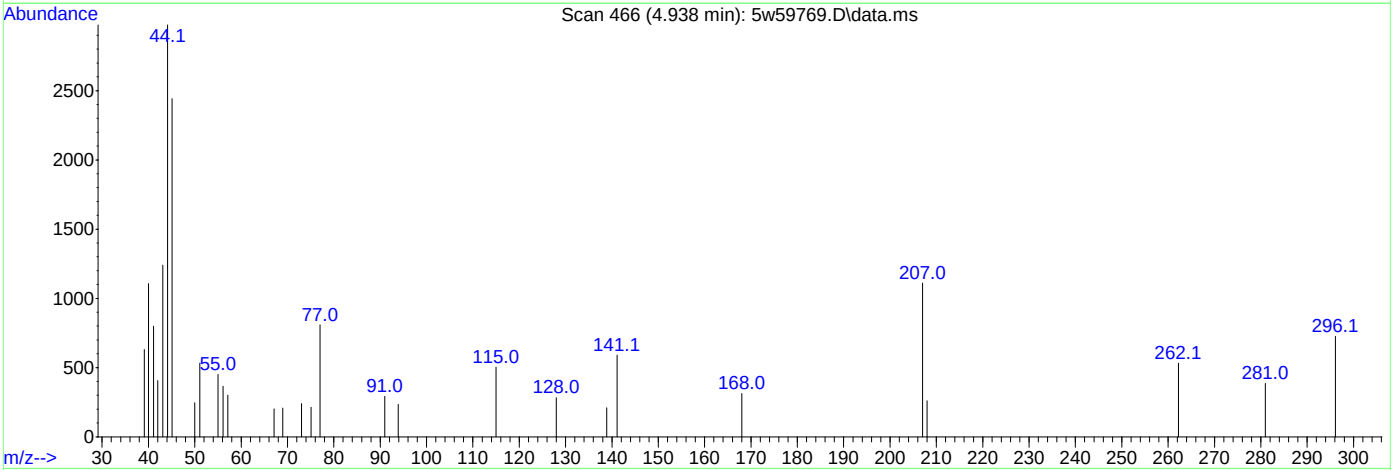
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.06PPBV m

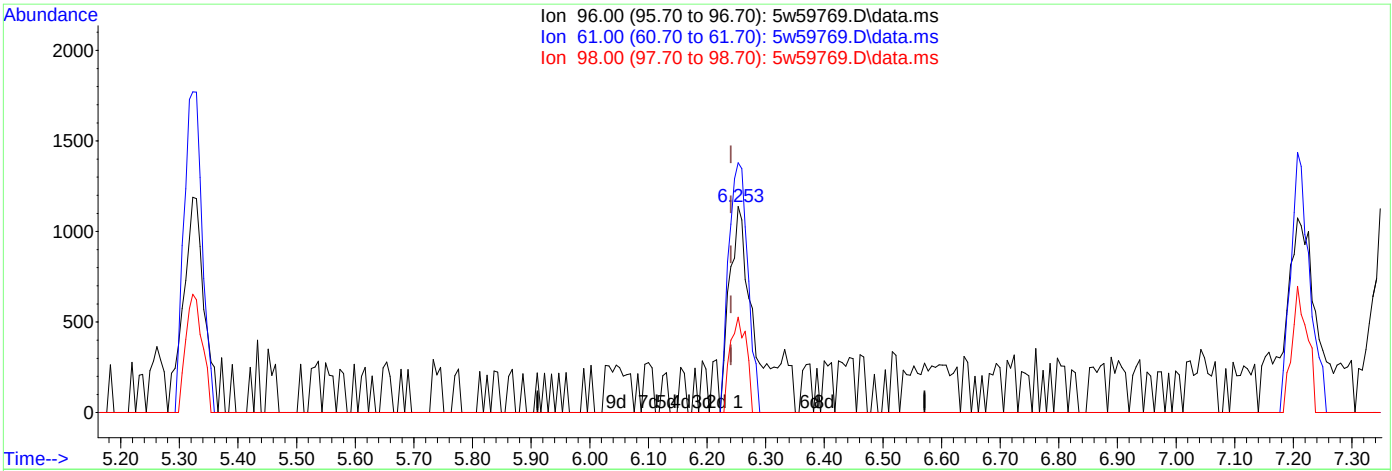
response 5219

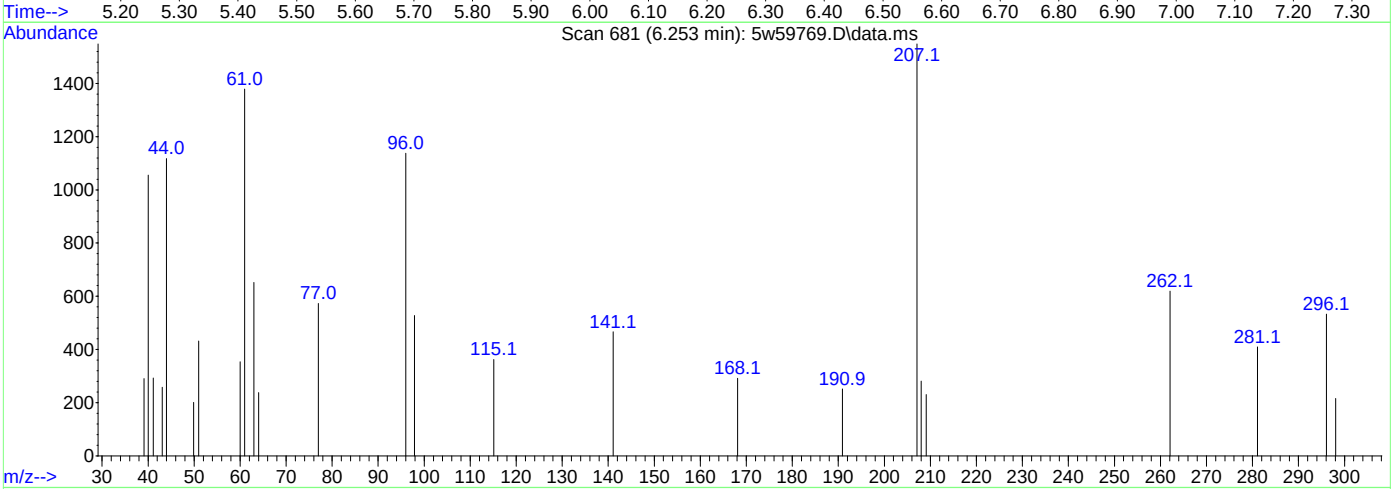
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.07PPBV

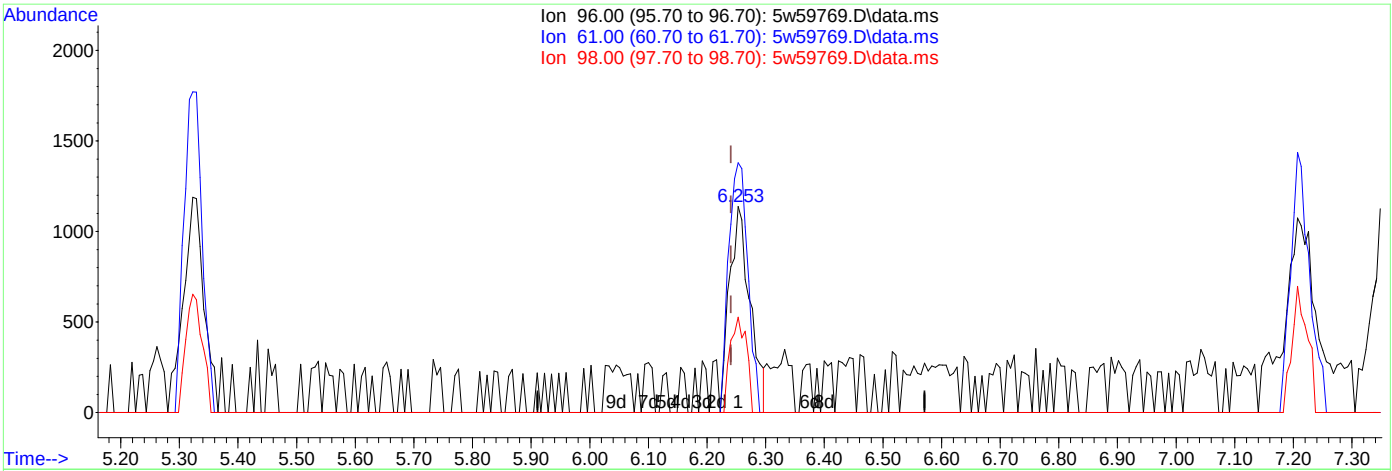
response 3570

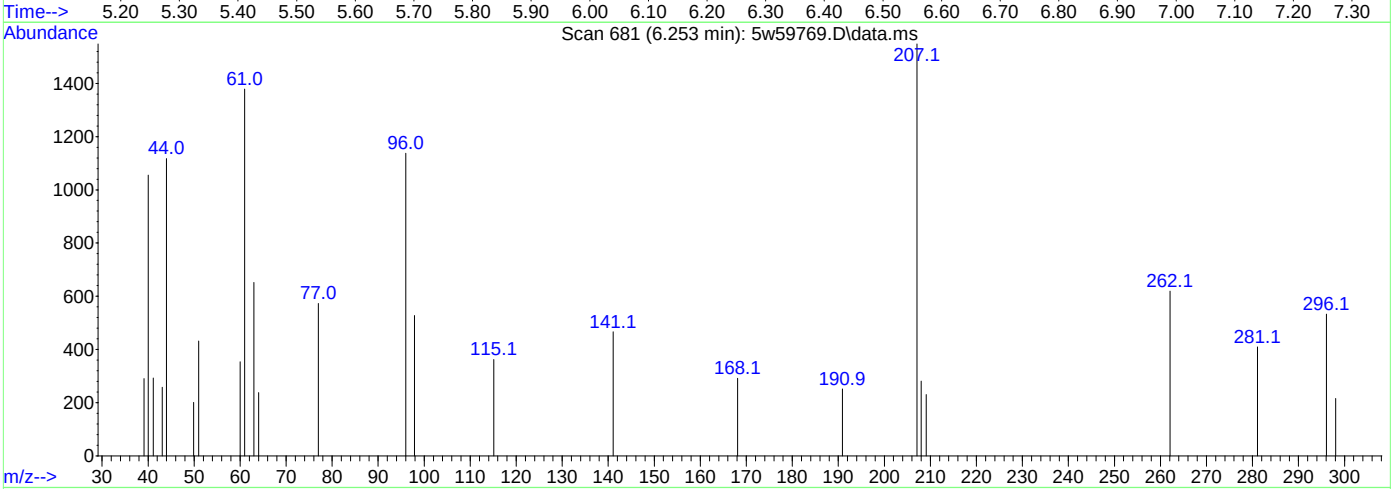
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	88.26#
98.00	64.10	28.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.05PPBV m

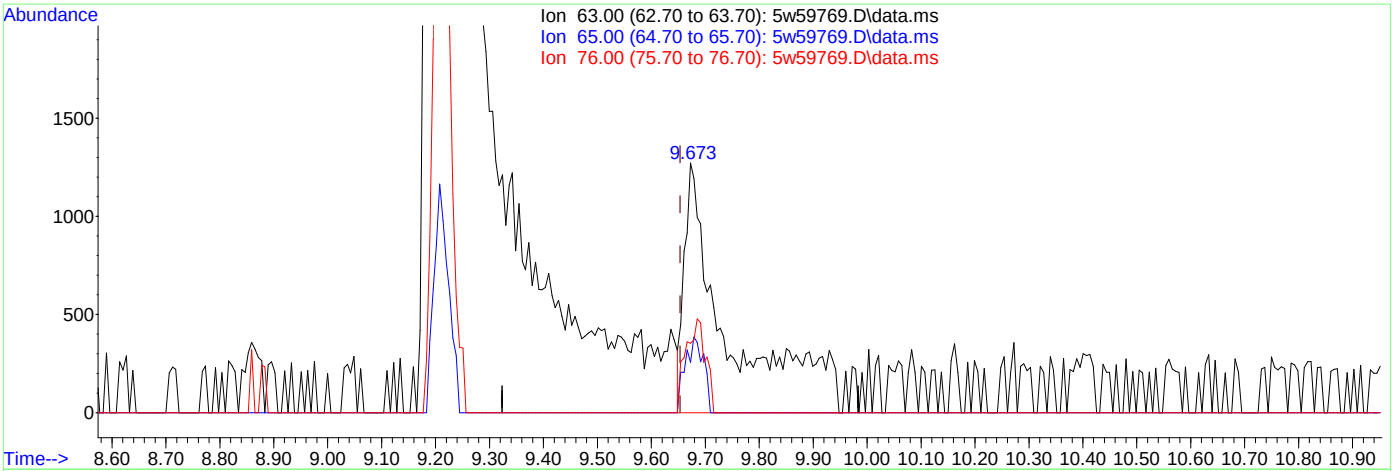
response 2781

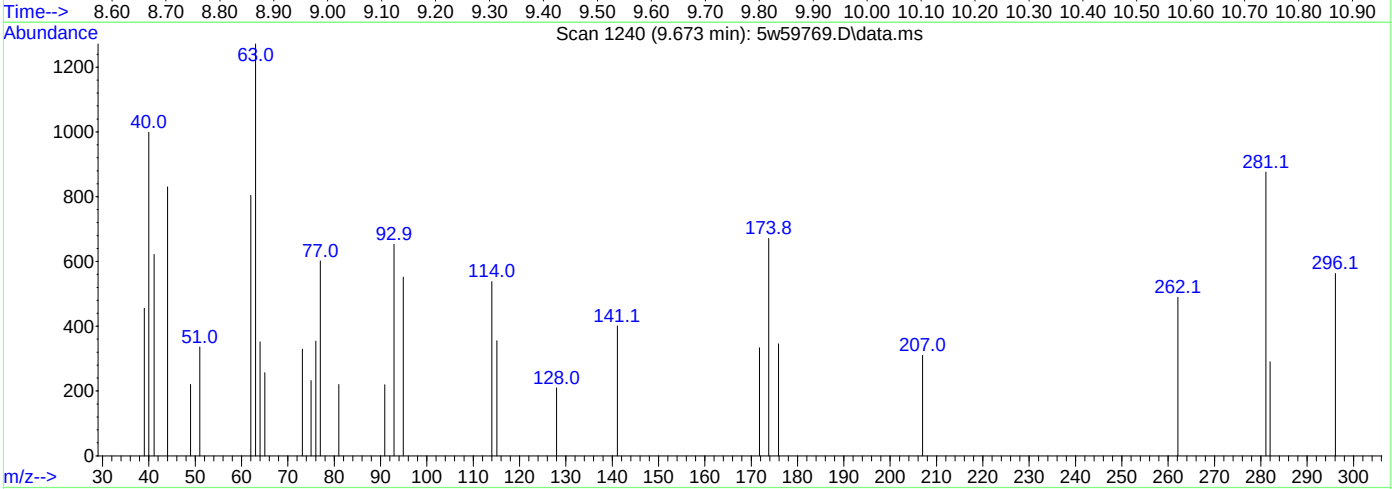
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	113.30#
98.00	64.10	36.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.11PPBV

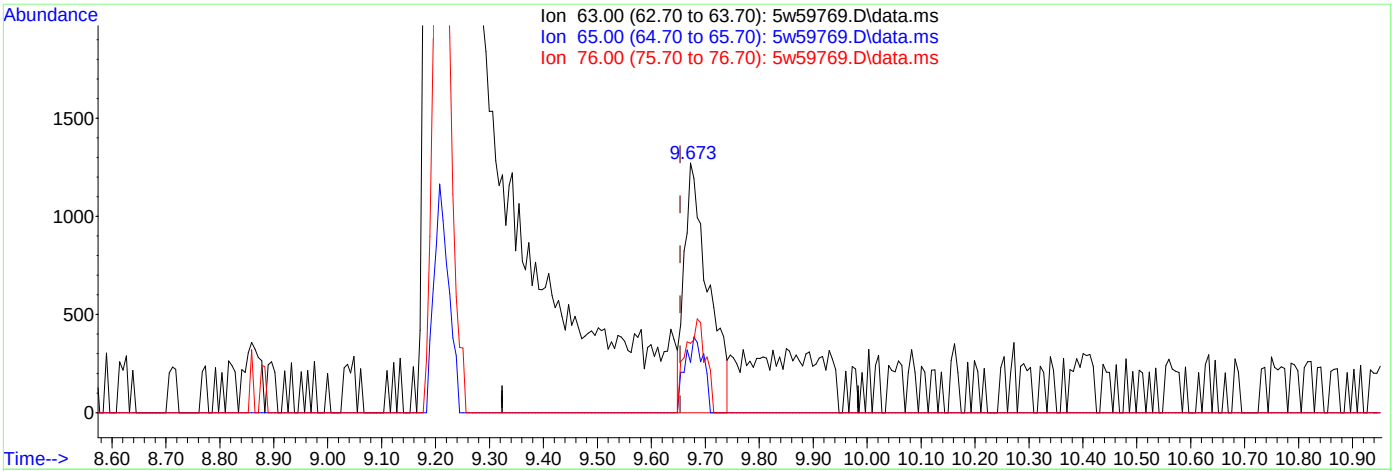
response 7133

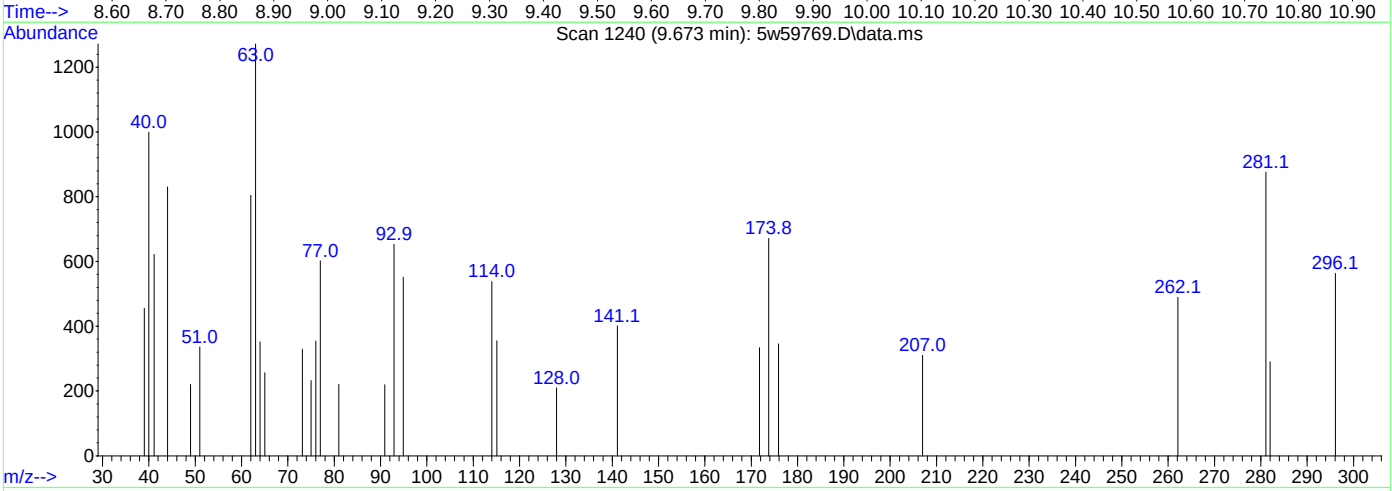
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	12.81
76.00	41.50	17.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.06PPBV m

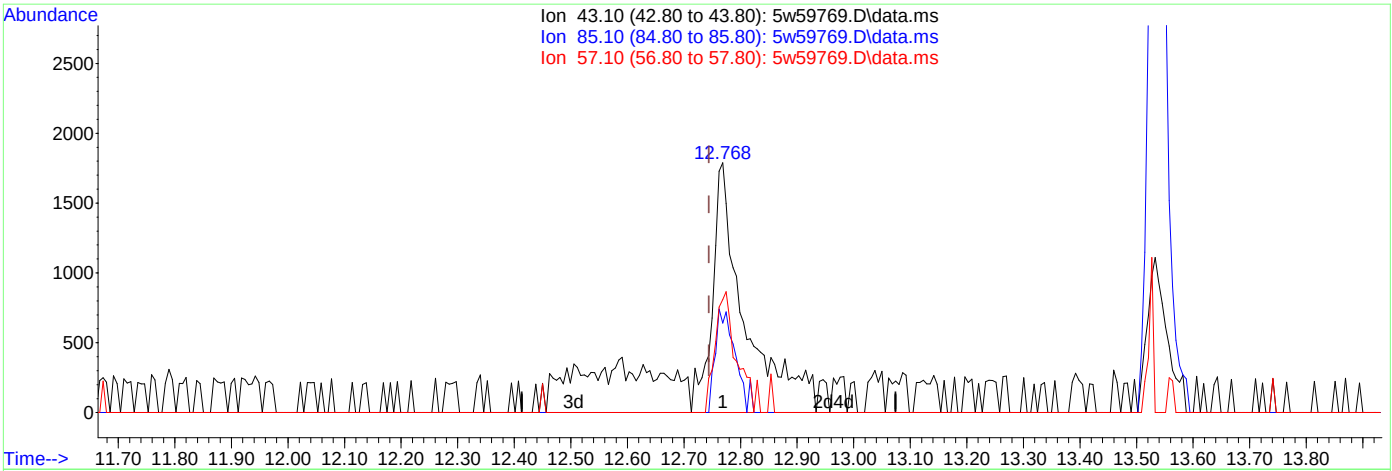
response 3887

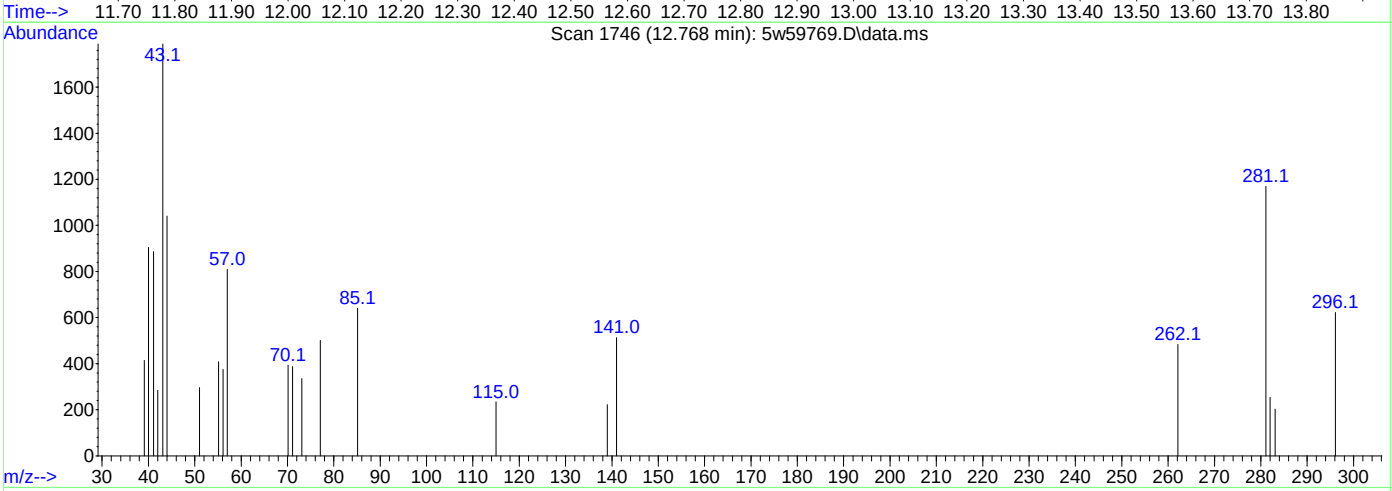
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	23.51
76.00	41.50	31.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.08PPBV

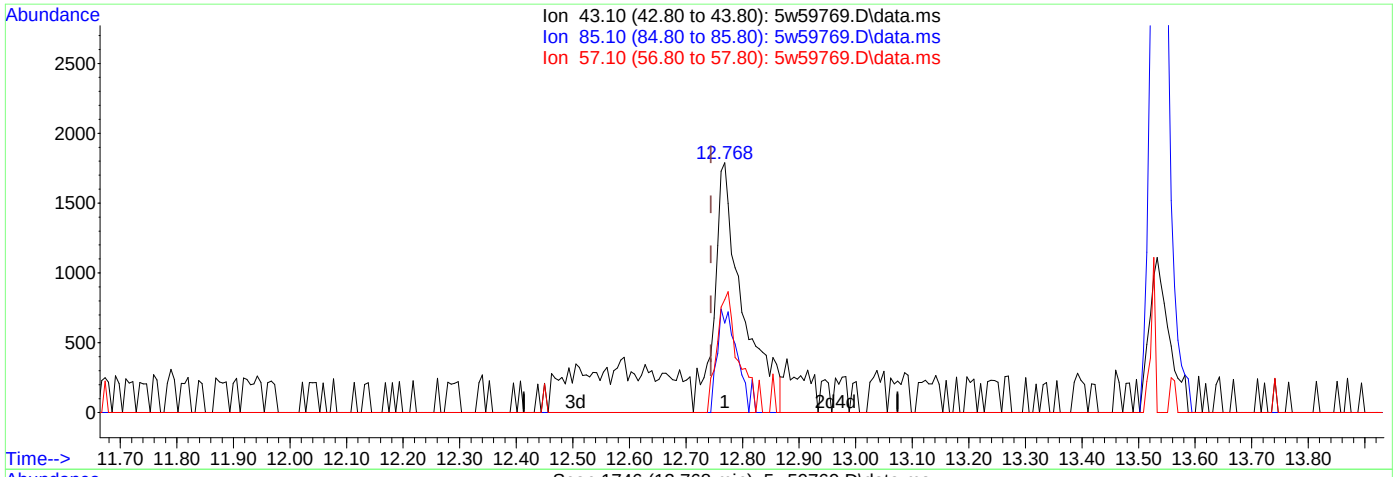
response 7210

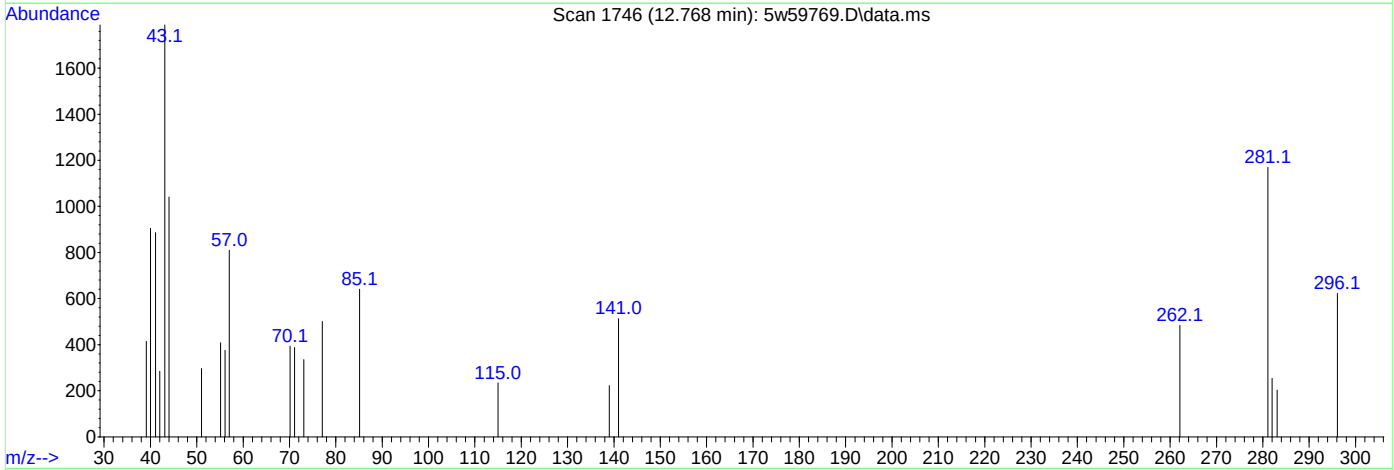
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	25.34
57.10	43.70	32.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.07PPBV m

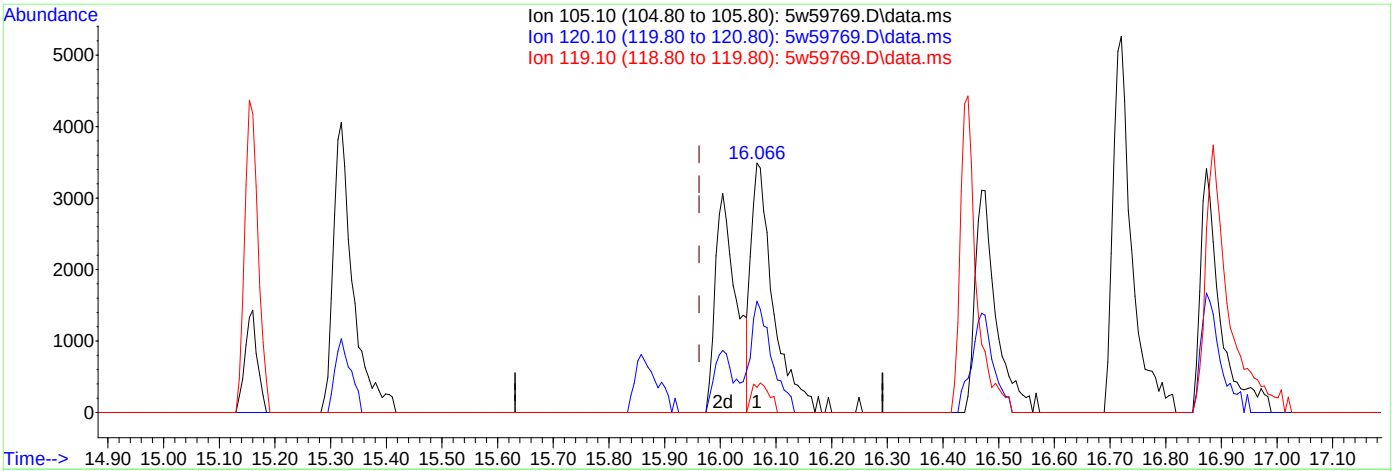
response 6243

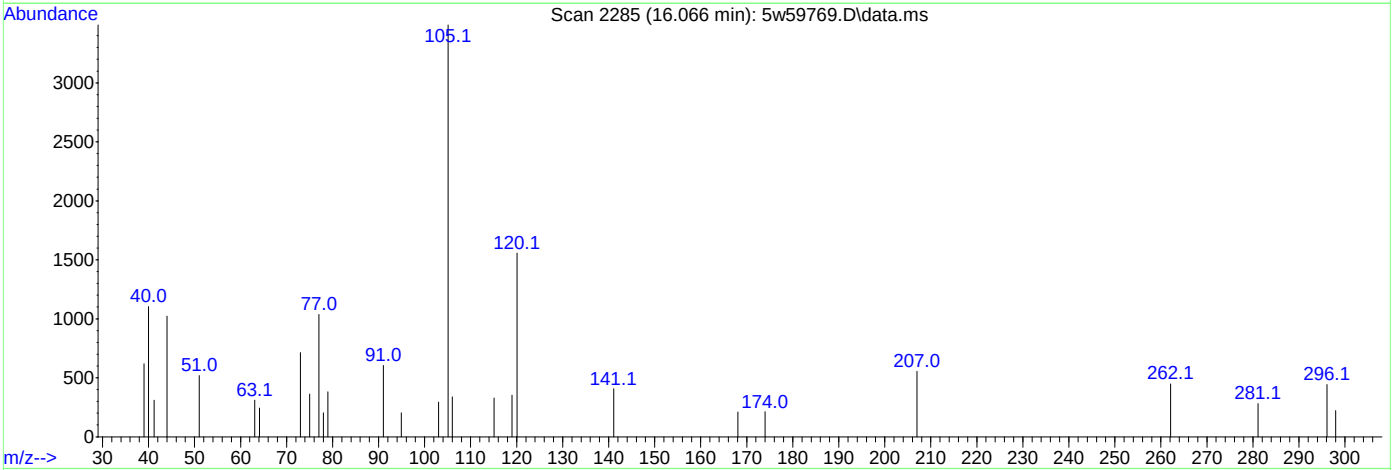
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	29.26
57.10	43.70	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.066min (+0.104) 0.05PPBV

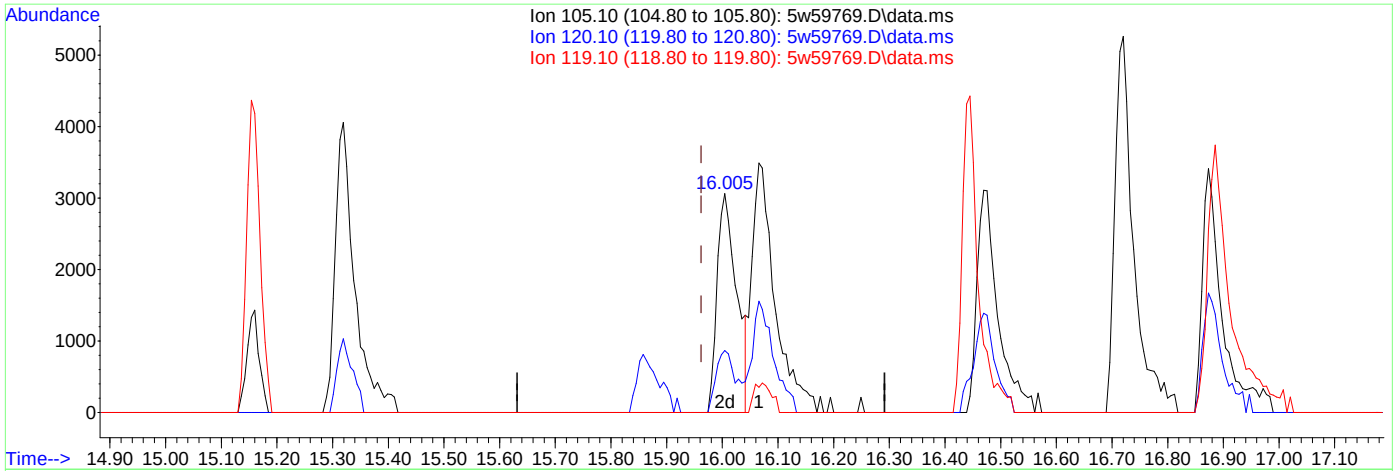
response 9673

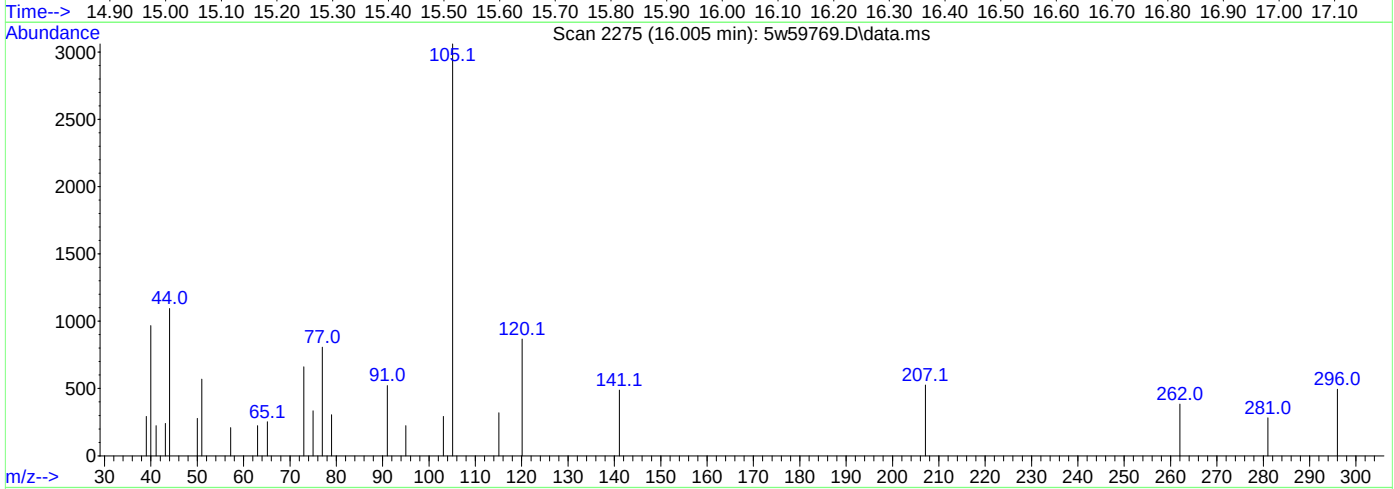
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	42.57
119.10	2.30	9.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.005min (+0.043) 0.04PPBV m

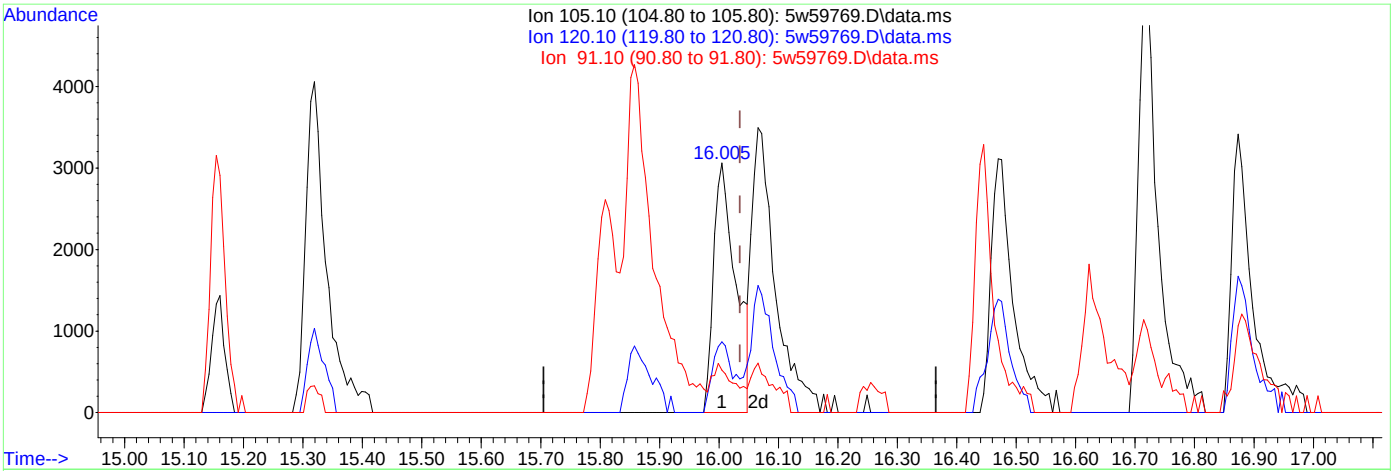
response 7489

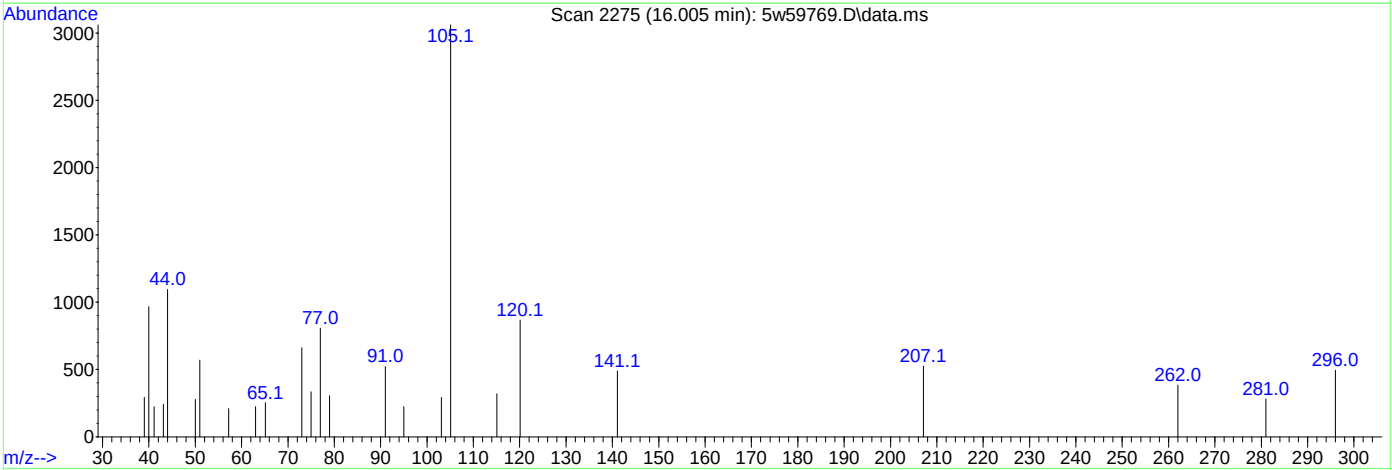
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	54.99
119.10	2.30	12.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.005min (-0.030) 0.04PPBV

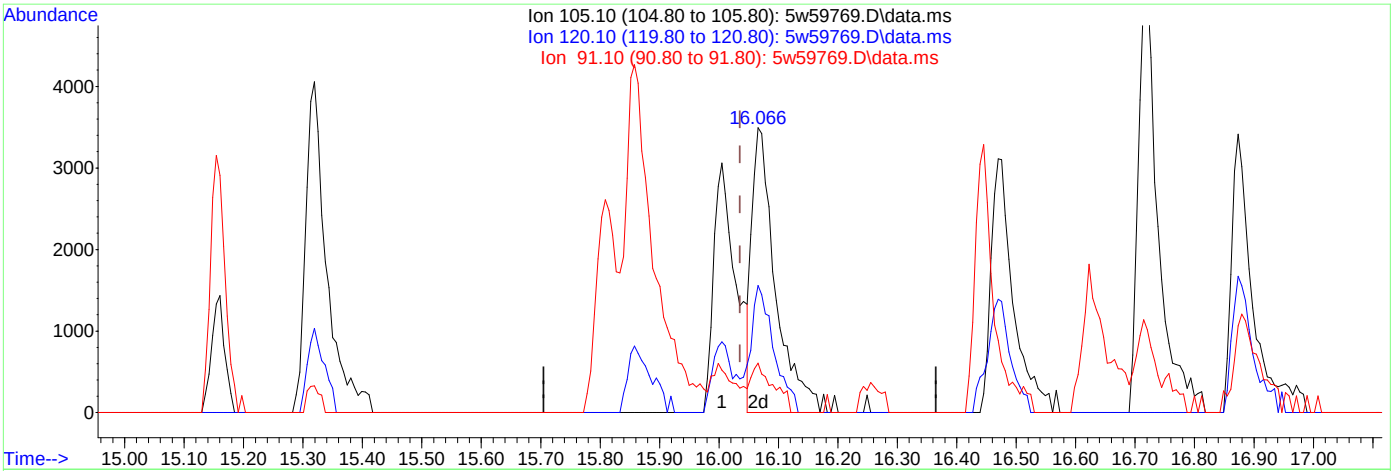
response 7976

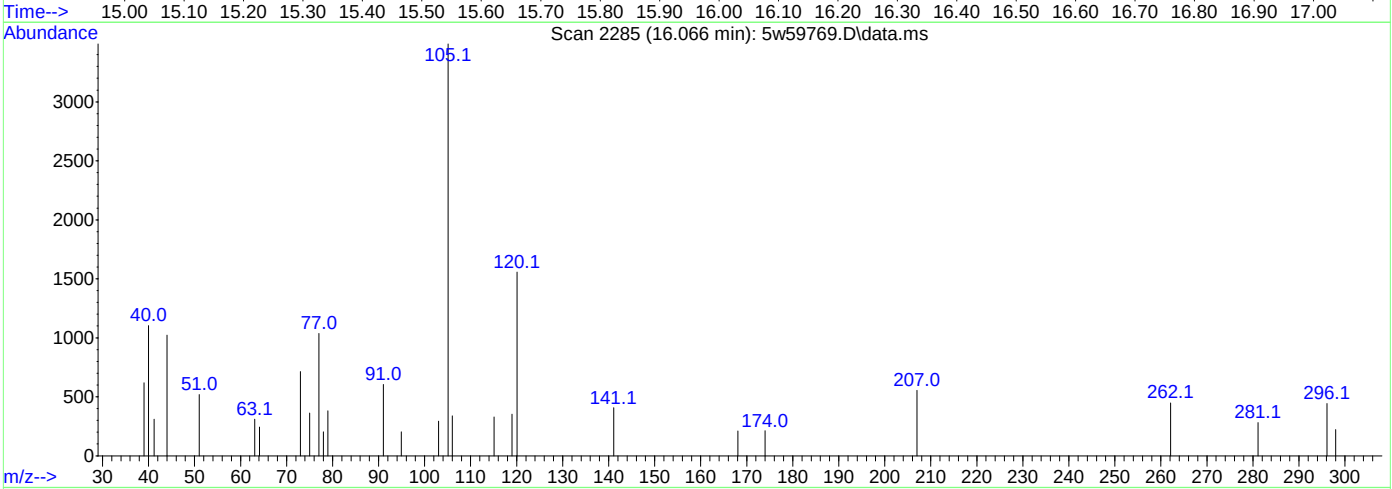
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	28.45
91.10	10.80	20.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.066min (+0.031) 0.05PPBV m

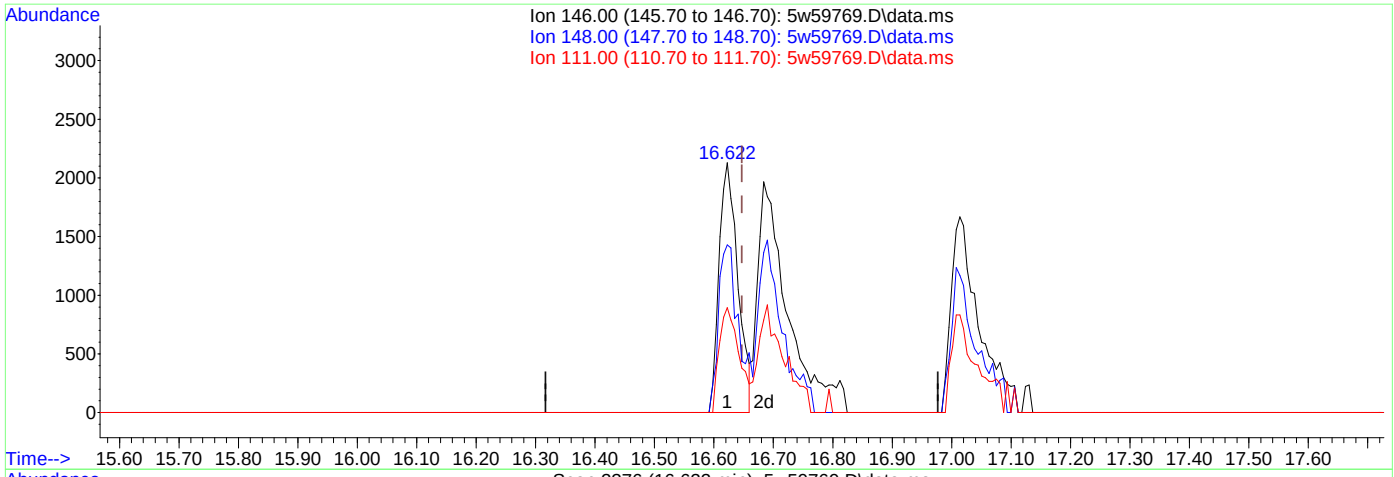
response 9751

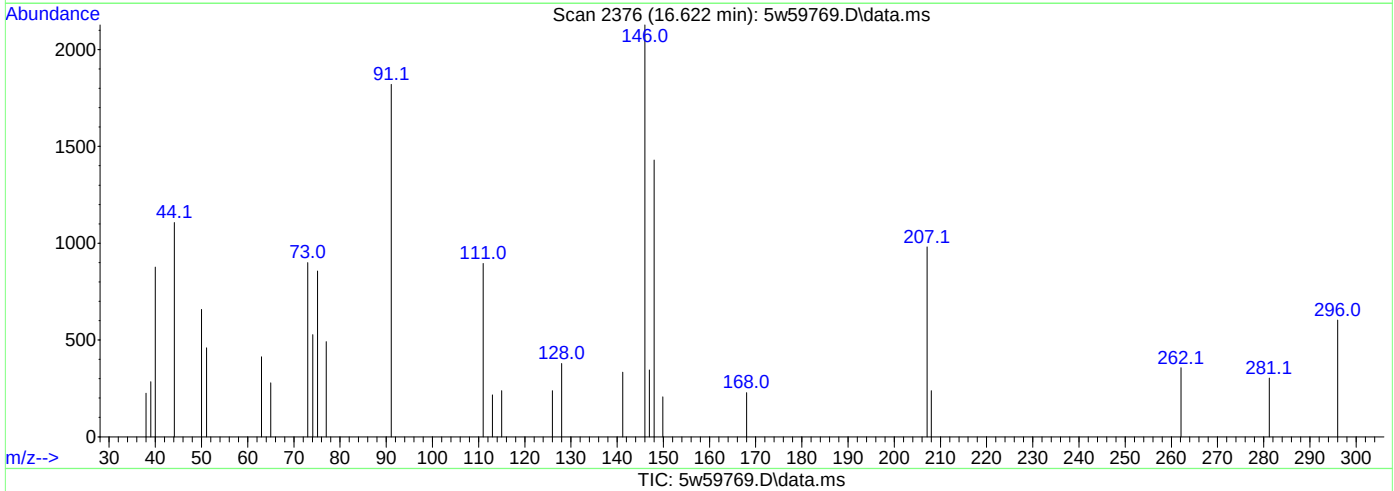
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	23.27
91.10	10.80	17.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.622min (-0.025) 0.03PPBV

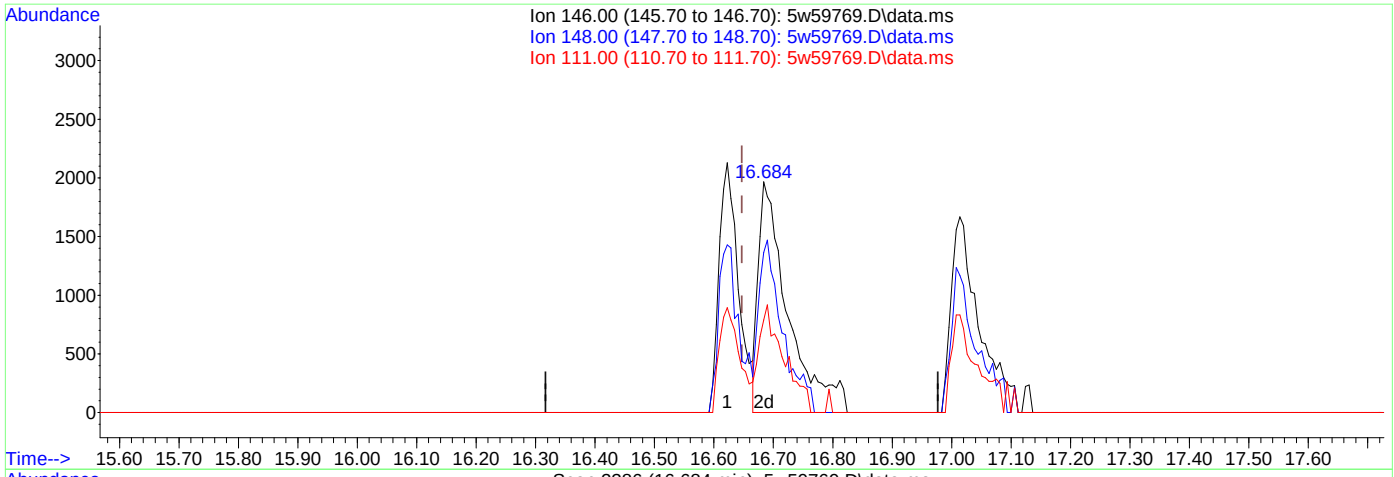
response 4669

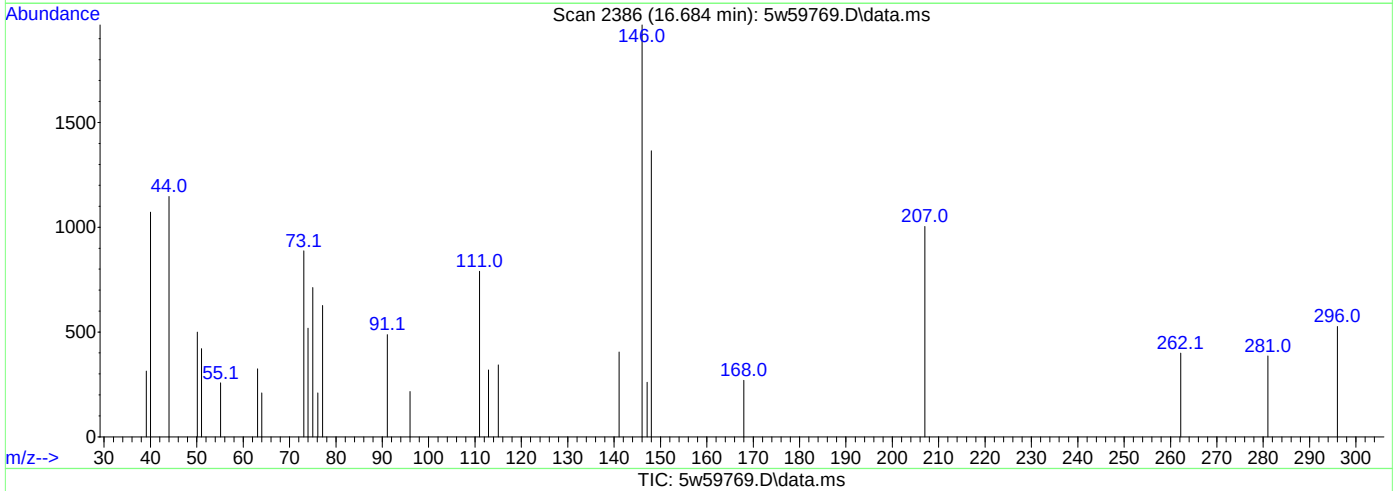
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	73.29
111.00	36.70	44.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.684min (+0.037) 0.05PPBV m

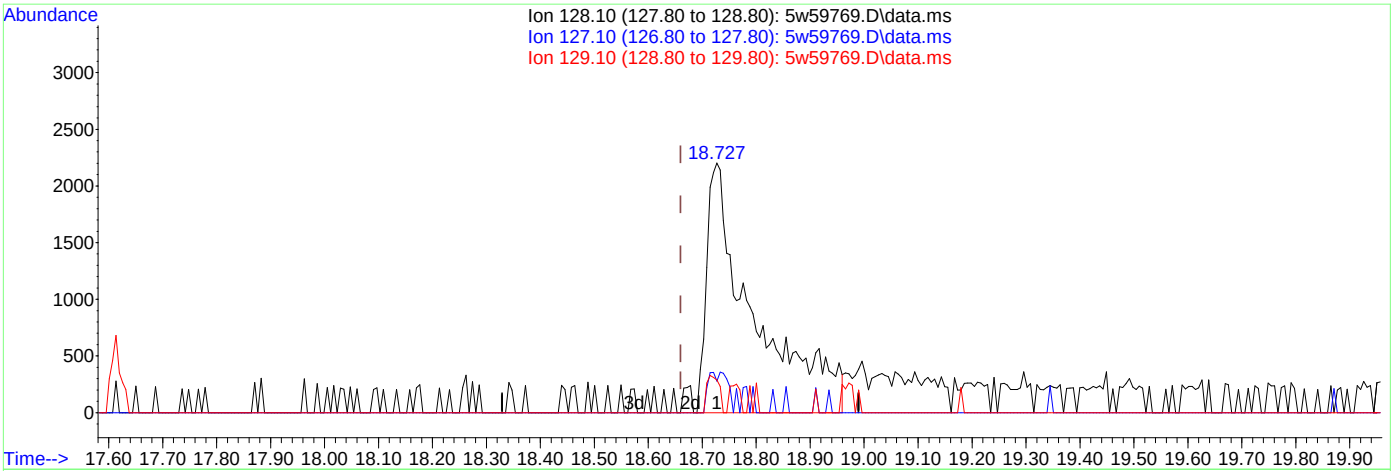
response 6829

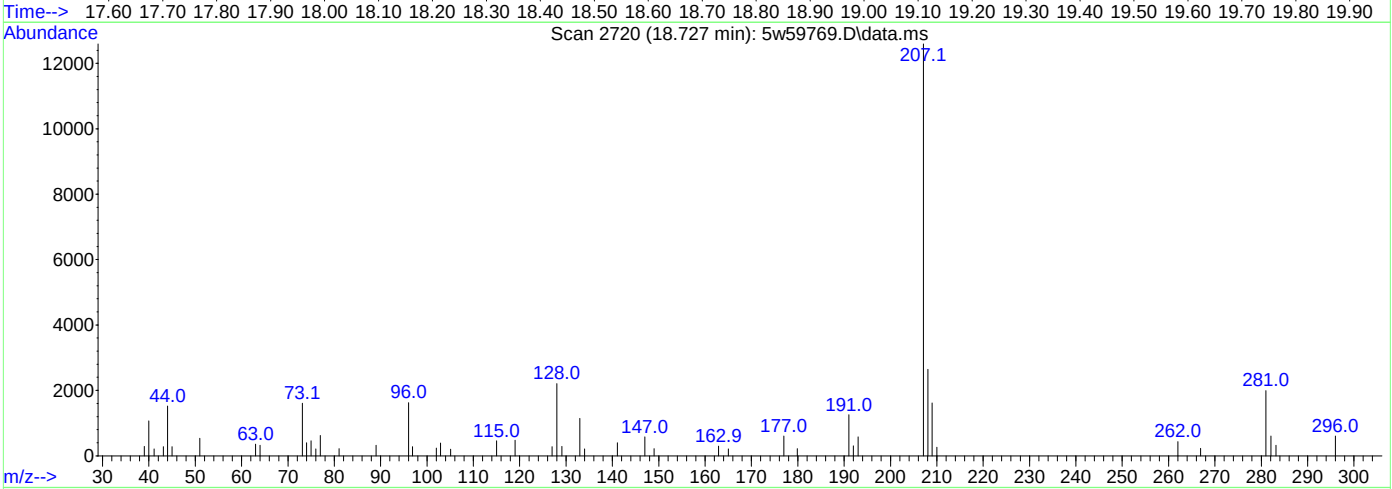
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	50.11
111.00	36.70	30.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.05PPBV

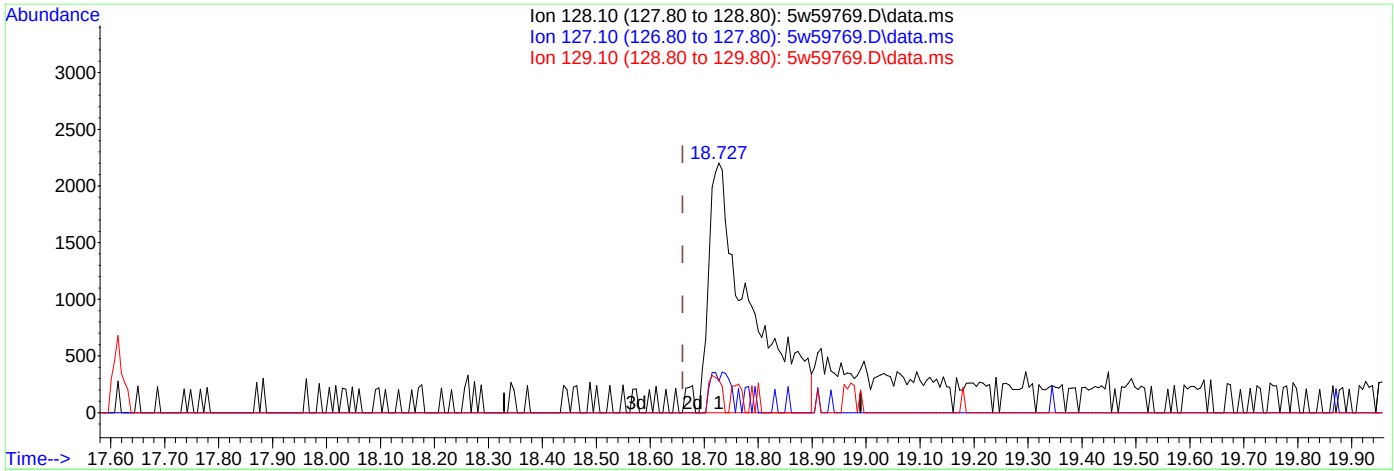
response 13130

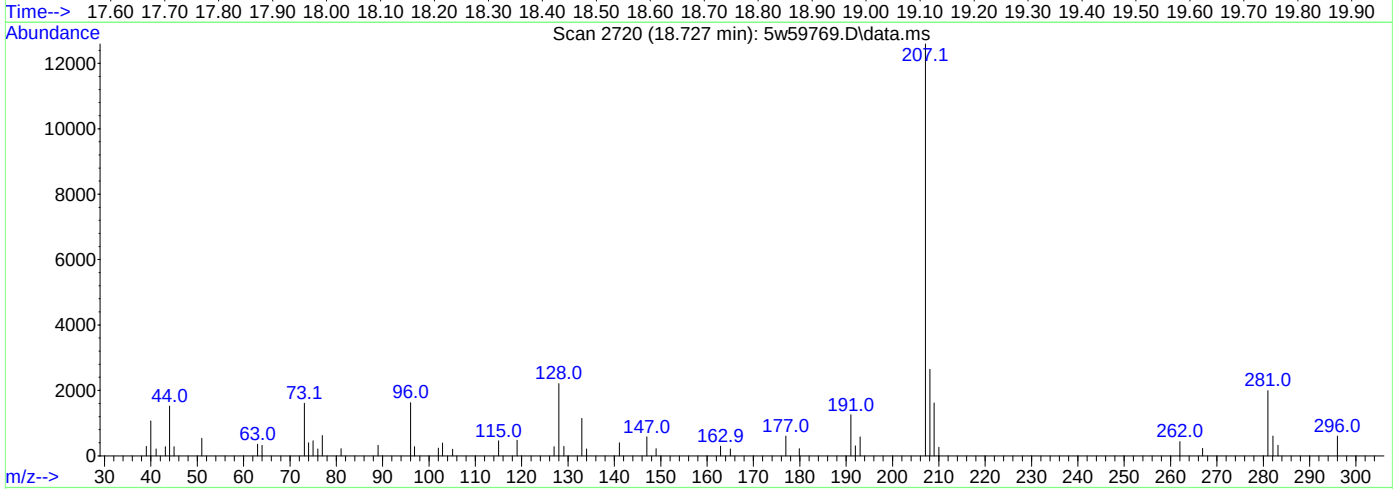
Ion	Exp%	Act%
128.10	100	100
127.10	13.30	6.81
129.10	11.40	3.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.04PPBV m

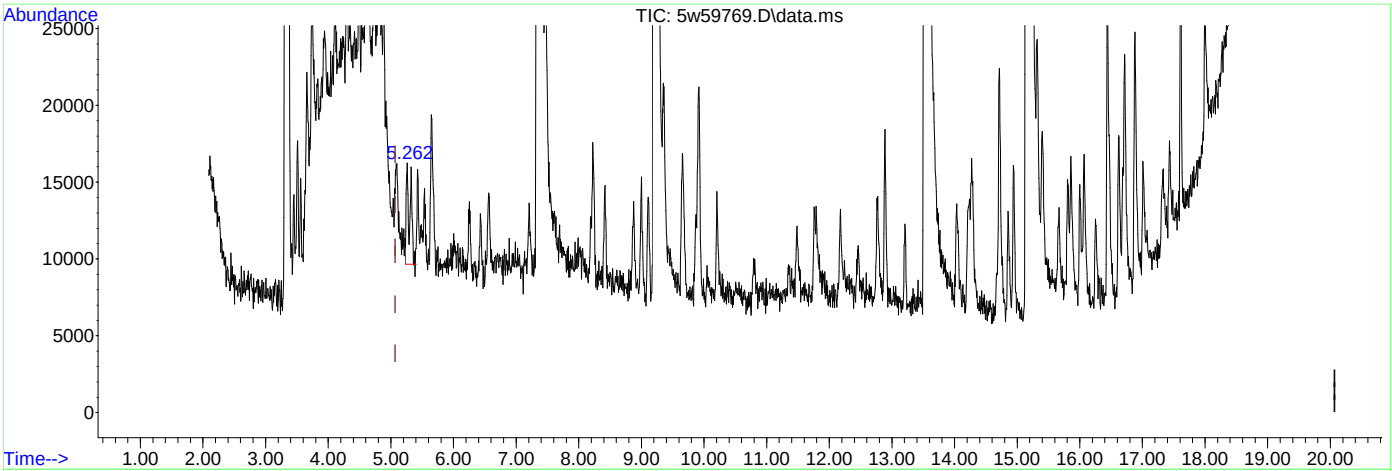
response 11614

Ion	Exp%	Act%
128.10	100	100
127.10	13.30	7.70
129.10	11.40	4.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration



TIC: 5w59769.D\data.ms

(110) TVHC as equiv Pentane

5.262min (+0.190) 0.10PPBV

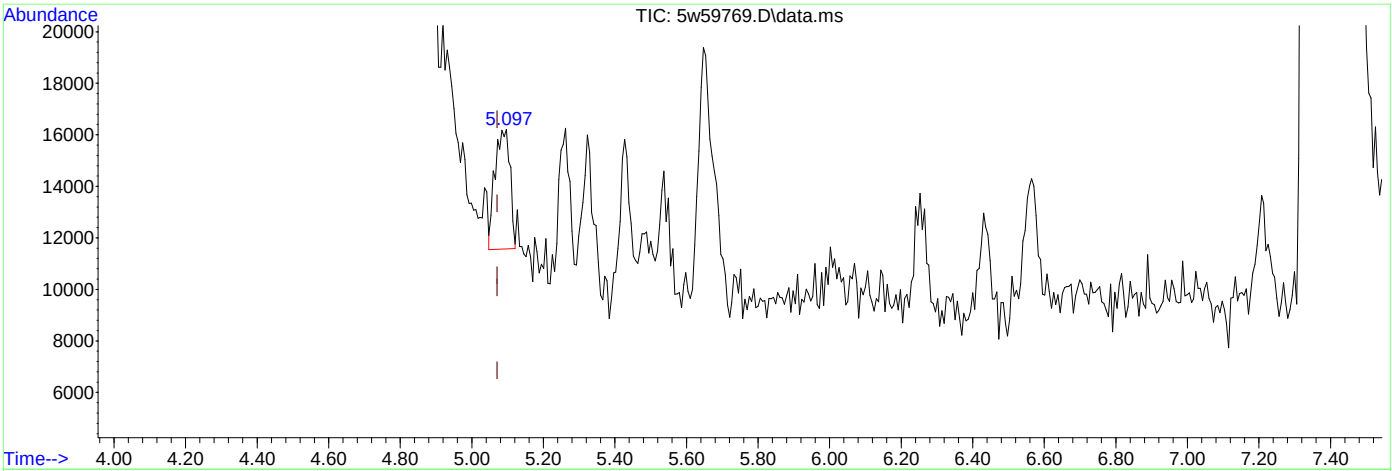
response 28223

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration



TIC: 5w59769.D\data.ms

(110) TVHC as equiv Pentane

5.097min (+0.025) 0.05PPBV m

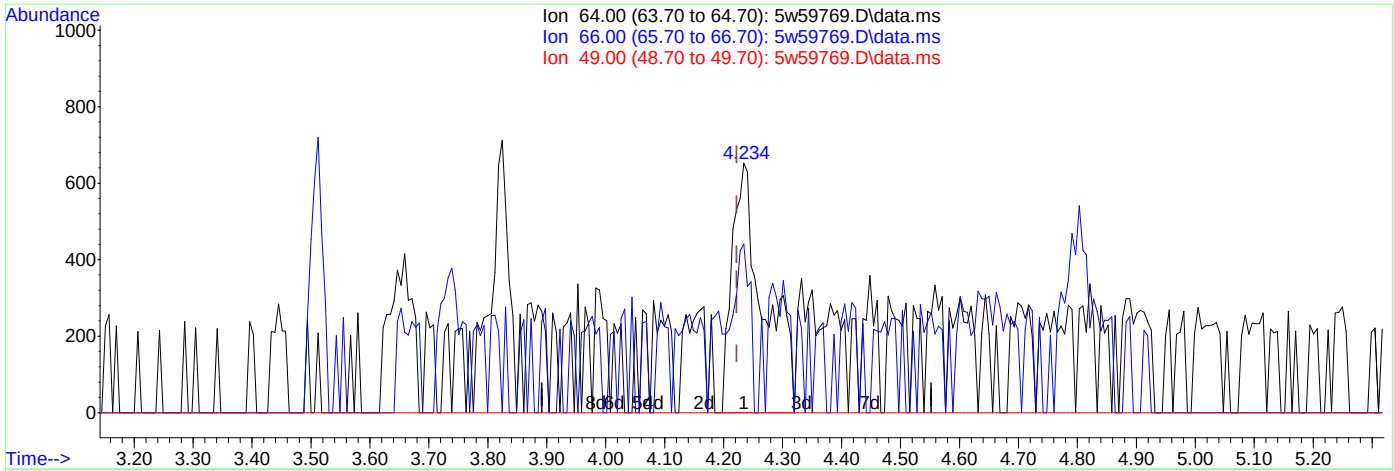
response 13430

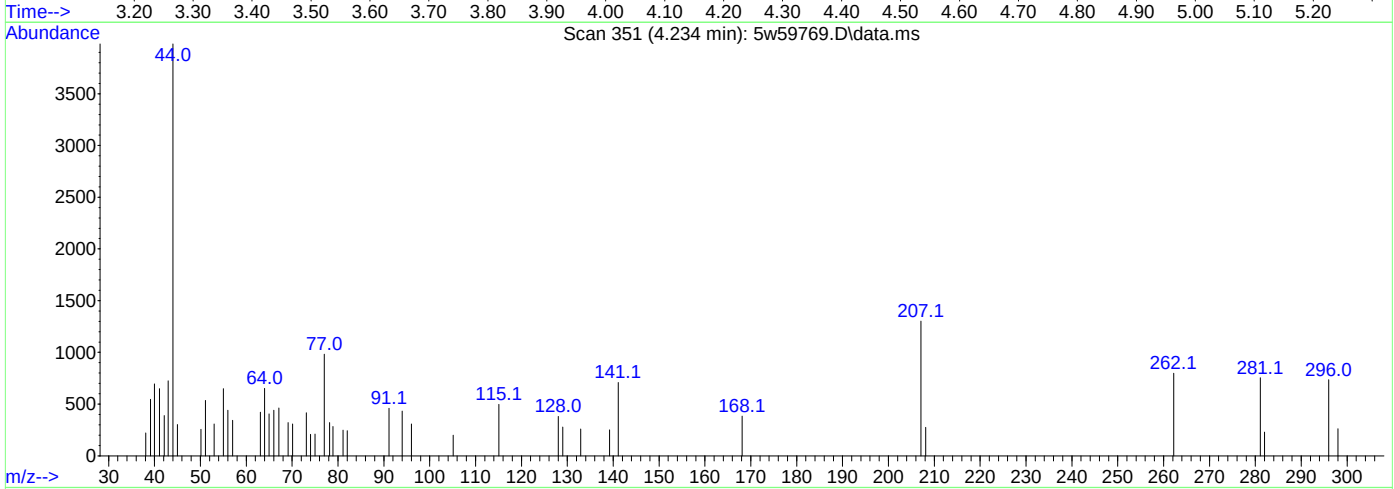
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.11PPBV

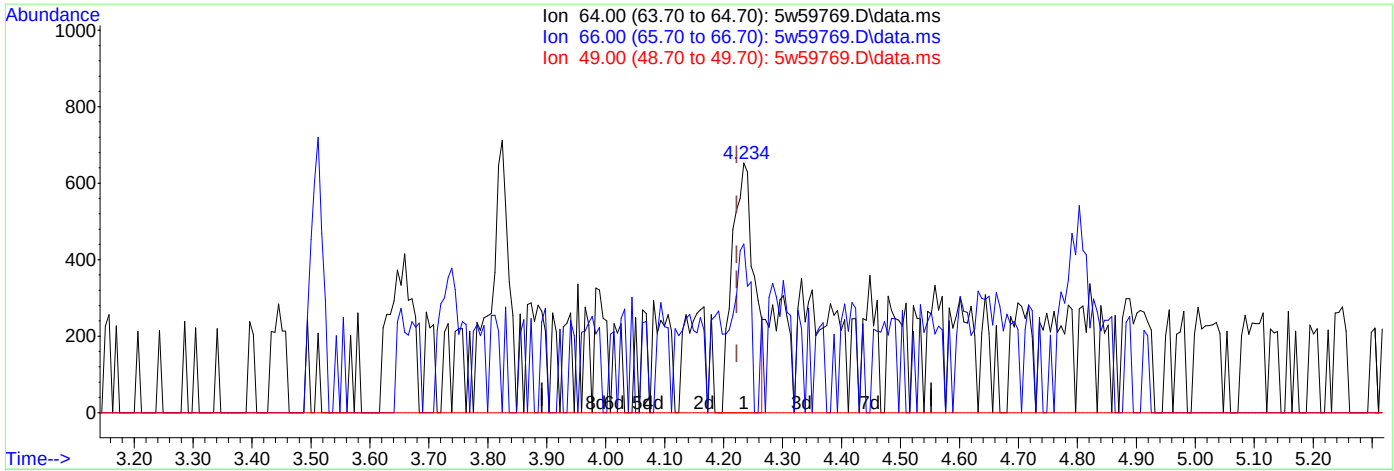
response 2438

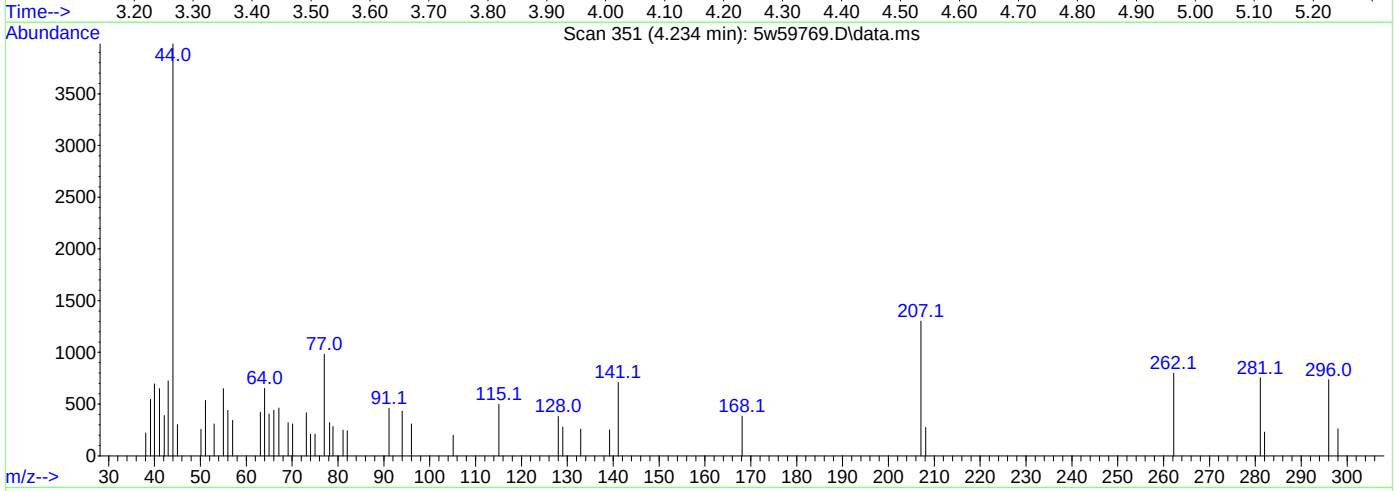
Ion	Exp%	Act%
64.00	100	100
66.00	33.10	31.58
49.00	25.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.08PPBV m

response 1697

Ion	Exp%	Act%
64.00	100	100
66.00	33.10	45.37
49.00	25.30	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	483296	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2143191	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1063437	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	486994	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1424858	10.91	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.10%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	3221	0.10	PPBV		95
3) FREON 152A	3.445	65	4358	0.13	PPBV		89
4) CHLORODIFLUOROMETHANE	3.482	67	1589	0.10	PPBV		90
5) CHLOROTRIFLUOROETHENE	3.506	116	7707	0.10	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	15163	0.11	PPBV		95
7) PROPYLENE	3.506	41	4519	0.13	PPBV	#	69
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13862	0.13	PPBV		96
9) FREON 114	3.732	85	15211	0.12	PPBV		98
10) CHLOROMETHANE	3.665	52	1901	0.13	PPBV	#	75
11) VINYL CHLORIDE	3.818	62	4992	0.11	PPBV		78
12) 1,3-BUTADIENE	3.916	54	3400	0.13	PPBV		93
13) n-BUTANE	3.947	43	5567	0.13	PPBV	#	95
14) BROMOMETHANE	4.106	94	5574	0.12	PPBV		88
15) CHLOROETHANE	4.228	64	3723	0.18	PPBV		72
16) DICHLOROFLUOROMETHANE	4.289	67	10972	0.11	PPBV		90
17) ACETONITRILE	4.522	41	2670m	0.10	PPBV		
18) ACROLEIN	4.601	56	1642m	0.11	PPBV		
19) FREON 123	4.595	83	13808m	0.13	PPBV		
20) FREON 123A	4.638	117	8167	0.13	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	13248	0.11	PPBV		89
22) ISOPROPYL ALCOHOL	4.932	45	12850	0.15	PPBV		84
23) ACETONE	4.724	58	3503	0.18	PPBV		87
24) PENTANE	5.072	42	6510	0.15	PPBV	#	42
25) IODOMETHANE	5.256	142	16474	0.11	PPBV		98
26) 1,1-DICHLOROETHYLENE	5.317	96	6043	0.12	PPBV		88
27) CARBON DISULFIDE	5.672	76	15443	0.12	PPBV		89
28) ETHANOL	4.344	45	5592	0.26	PPBV		87
29) BROMOETHENE	4.485	106	5356	0.11	PPBV		95
30) ACRYLONITRILE	5.091	52	3869	0.12	PPBV	#	91
31) METHYLENE CHLORIDE	5.427	84	6090	0.14	PPBV		98
32) 3-CHLOROPROPENE	5.531	76	2581	0.11	PPBV	#	52
33) FREON 113	5.647	151	8991	0.10	PPBV		97
34) TRANS-1,2-DICHLOROETHY...	6.247	96	6117	0.12	PPBV		82
35) TERTIARY BUTYL ALCOHOL	5.476	59	9217	0.09	PPBV		76
36) METHYL TERTIARY BUTYL ...	6.547	73	15796	0.12	PPBV		87
37) TETRAHYDROFURAN	7.966	72	1469	0.08	PPBV	#	45
38) HEXANE	7.385	57	9533	0.13	PPBV		83
40) 1,1-DICHLOROETHANE	6.430	63	12904	0.14	PPBV		91
41) METHYL ETHYL KETONE	6.920	72	956m	0.05	PPBV		
42) cis-1,2-DICHLOROETHYLENE	7.207	96	6979	0.13	PPBV		77
43) DIISOPROPYL ETHER	7.452	59	1846	0.09	PPBV	#	39
44) ETHYL ACETATE	7.544	61	434m	0.03	PPBV		
45) METHYL ACRYLATE	7.507	55	6719m	0.08	PPBV		
46) CHLOROFORM	7.483	83	11842	0.11	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	9616	0.11	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	11905	0.11	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	12586	0.10	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

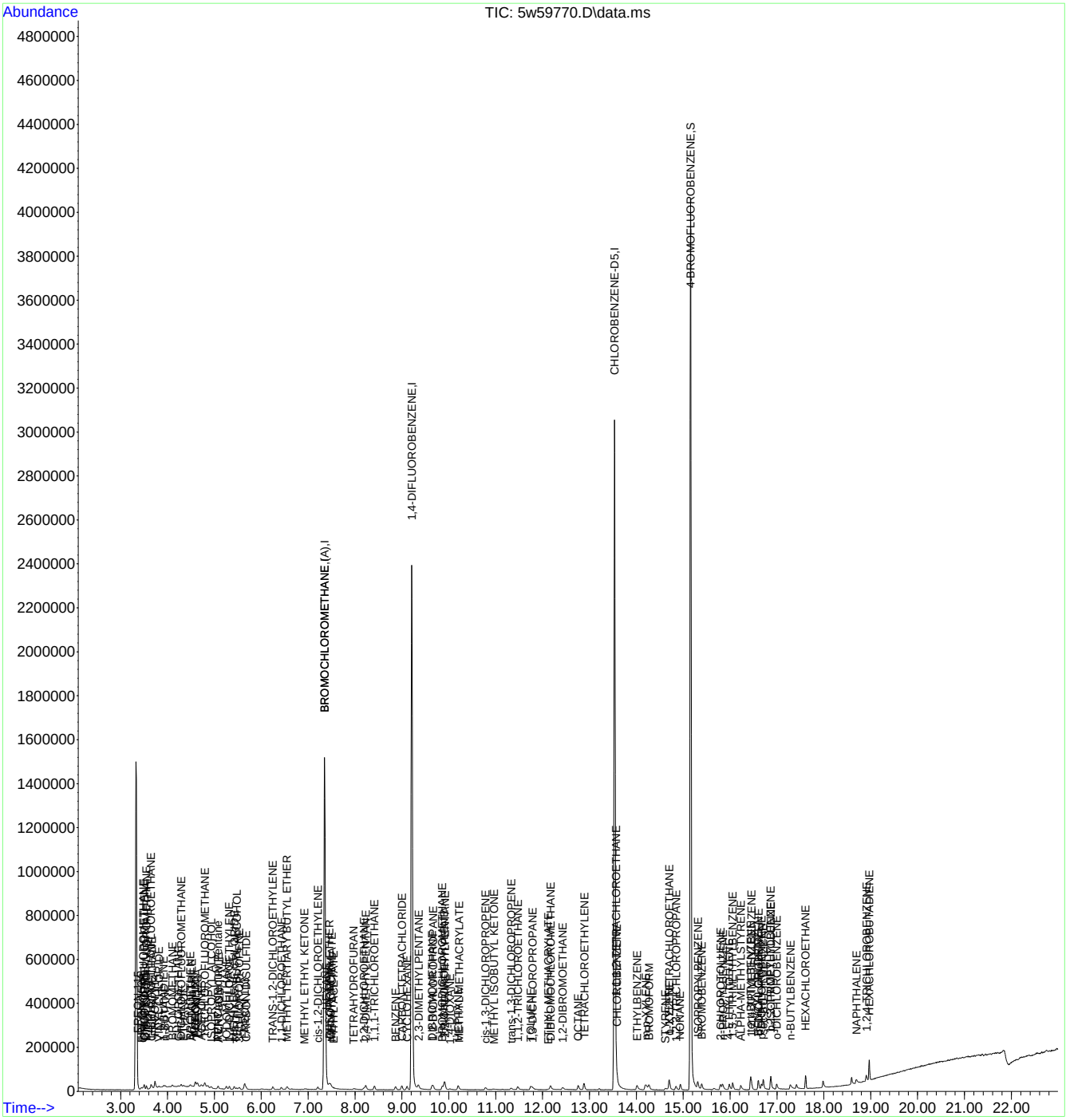
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	8.186	62	7761	0.10	PPBV		85
52)	BENZENE	8.865	78	15430	0.11	PPBV		91
53)	CYCLOHEXANE	9.110	84	5905	0.10	PPBV		90
54)	2,3-DIMETHYLPENTANE	9.361	71	2989	0.10	PPBV		89
55)	TRICHLOROETHYLENE	9.899	95	7303	0.10	PPBV		98
56)	1,2-DICHLOROPROPANE	9.667	63	9099	0.15	PPBV		85
57)	DIBROMOMETHANE	9.642	174	8479	0.11	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	12436	0.10	PPBV		94
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	24769	0.11	PPBV		93
61)	1,4-DIOXANE	10.028	88	3670	0.11	PPBV	#	1
62)	HEPTANE	10.199	43	10112	0.13	PPBV		90
63)	METHYL METHACRYLATE	10.217	69	3857	0.08	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.964	58	2182	0.05	PPBV	#	26
65)	cis-1,3-DICHLOROPROPENE	10.780	75	10824	0.11	PPBV		90
66)	TOLUENE	11.747	92	10446	0.10	PPBV		90
67)	1,3-DICHLOROPROPANE	11.789	76	9064	0.10	PPBV	#	90
68)	trans-1,3-DICHLOROPROPENE	11.331	75	9955	0.11	PPBV		88
69)	1,1,2-TRICHLOROETHANE	11.471	83	5972	0.10	PPBV		90
72)	ETHYL METHACRYLATE	12.120	69	5758	0.08	PPBV	#	65
73)	TETRACHLOROETHYLENE	12.891	164	8344	0.12	PPBV		90
74)	DIBROMOCHLOROMETHANE	12.169	129	13809	0.11	PPBV		97
75)	1,2-DIBROMOETHANE	12.426	107	10727	0.11	PPBV	#	98
76)	OCTANE	12.756	43	11856	0.13	PPBV		95
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	8635	0.11	PPBV		99
78)	CHLOROBENZENE	13.588	112	15456	0.12	PPBV	#	49
79)	ETHYLBENZENE	14.016	91	24398	0.12	PPBV		95
80)	m,p-XYLENE	14.200	106	17695	0.22	PPBV		94
81)	o-XYLENE	14.701	106	8363	0.11	PPBV		88
82)	STYRENE	14.616	104	12755	0.11	PPBV		84
83)	NONANE	14.934	43	13253	0.14	PPBV		94
84)	BROMOFORM	14.267	173	12500	0.10	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.701	83	15380	0.12	PPBV		96
87)	1,2,3-TRICHLOROPROPANE	14.848	75	13012	0.13	PPBV		86
88)	ISOPROPYLBENZENE	15.313	105	26261	0.12	PPBV		98
89)	BROMOBENZENE	15.393	77	13681	0.12	PPBV		90
90)	2-CHLOROTOLUENE	15.797	126	6870	0.11	PPBV		79
91)	n-PROPYLBENZENE	15.845	120	6334	0.10	PPBV		96
92)	4-ETHYLTOLUENE	15.980	105	22792	0.11	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.054	105	24501	0.13	PPBV		92
94)	ALPHA-METHYLSTYRENE	16.231	118	9018	0.09	PPBV		93
95)	tert-BUTYLBENZENE	16.439	134	4502	0.11	PPBV		89
96)	1,2,4-TRIMETHYLBENZENE	16.457	105	21144	0.12	PPBV		95
97)	m-DICHLOROBENZENE	16.604	146	14099	0.10	PPBV		98
98)	BENZYL CHLORIDE	16.598	91	15140	0.09	PPBV		92
99)	p-DICHLOROBENZENE	16.671	146	17844	0.12	PPBV		99
100)	sec-BUTYLBENZENE	16.708	134	5680	0.11	PPBV	#	86
101)	1,2,3-TRIMETHYLBENZENE	16.861	105	23306	0.12	PPBV		93
102)	p-ISOPROPYLTOLUENE	16.867	134	6197	0.11	PPBV	#	80
103)	o-DICHLOROBENZENE	16.996	146	15528	0.11	PPBV		97
104)	n-BUTYLBENZENE	17.289	134	5383	0.09	PPBV	#	64
105)	HEXACHLOROETHANE	17.607	117	10817	0.11	PPBV		96
106)	HEXACHLOROBUTADIENE	18.966	225	14991	0.12	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.910	180	13603	0.10	PPBV		93
108)	NAPHTHALENE	18.696	128	31596	0.11	PPBV		94
110)	TVHC as equiv Pentane	5.078	TIC	29029	0.10	PPBV		100

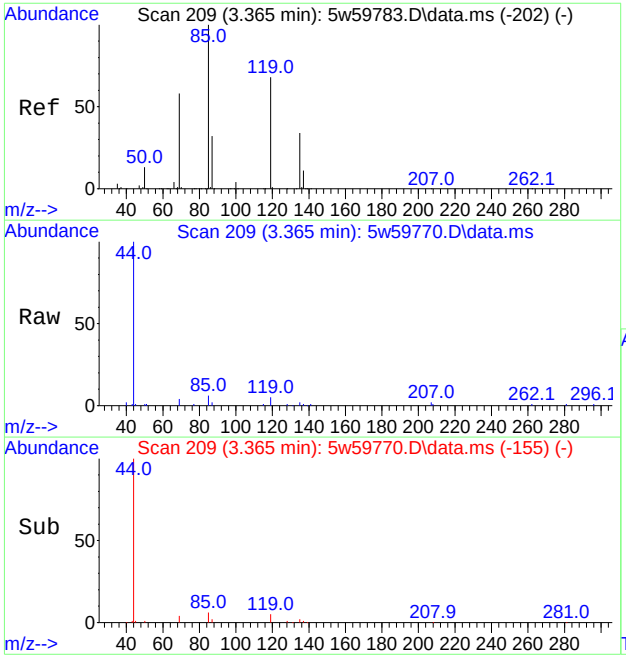
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

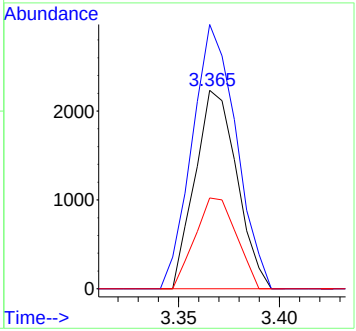


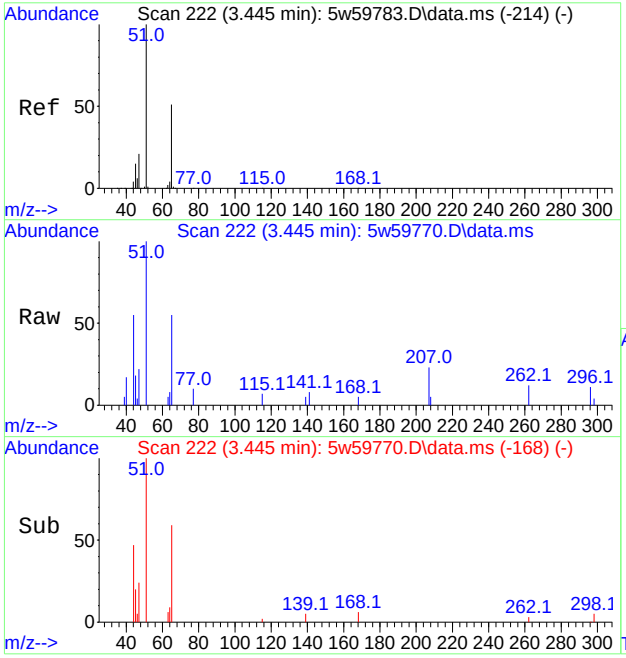


#2
FREON 115
Concen: 0.10 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:119 Resp: 3221

Ion	Ratio	Lower	Upper
119	100		
85	140.3	116.2	176.2
135	45.2	20.6	80.6

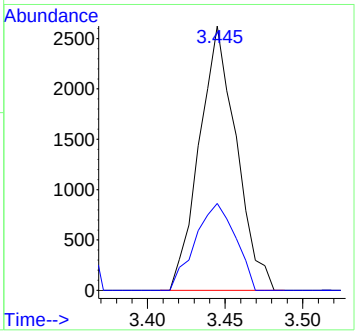


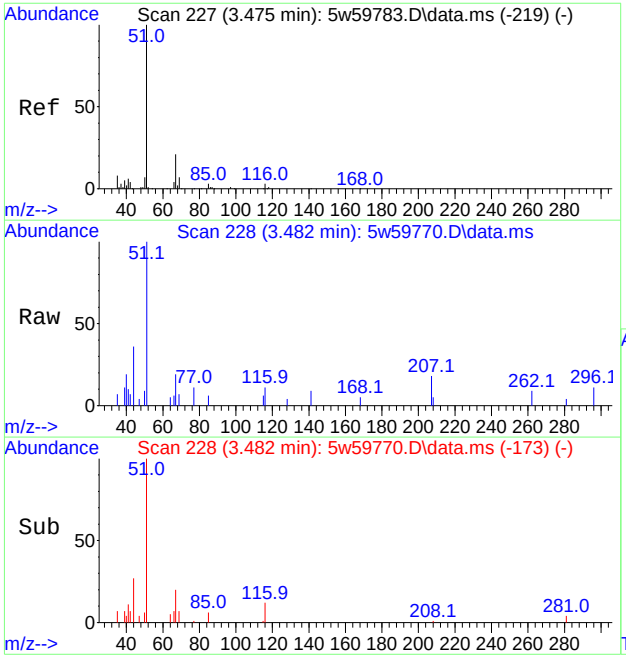


#3
FREON 152A
Concen: 0.13 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 4358

Ion	Ratio	Lower	Upper
65	100		
45	35.8	0.0	60.0

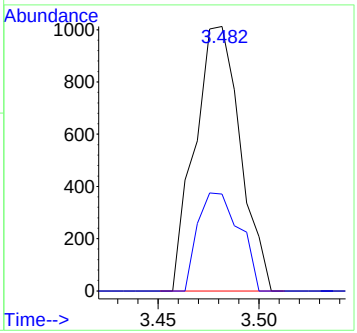


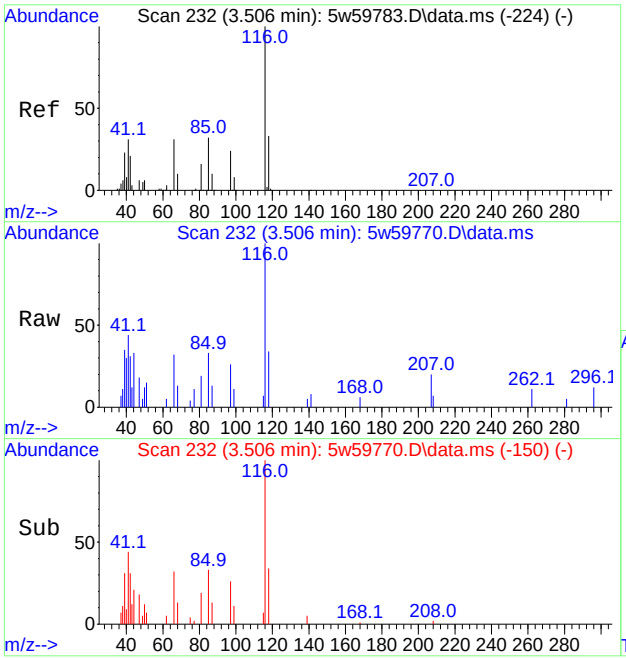


#4
CHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 1589

Ion	Ratio	Lower	Upper
67	100		
69	36.6	1.0	61.0

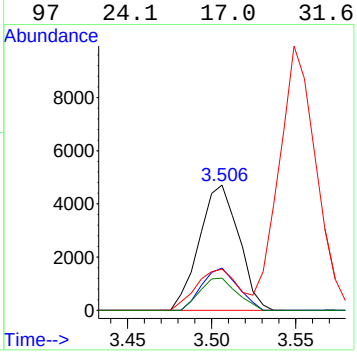


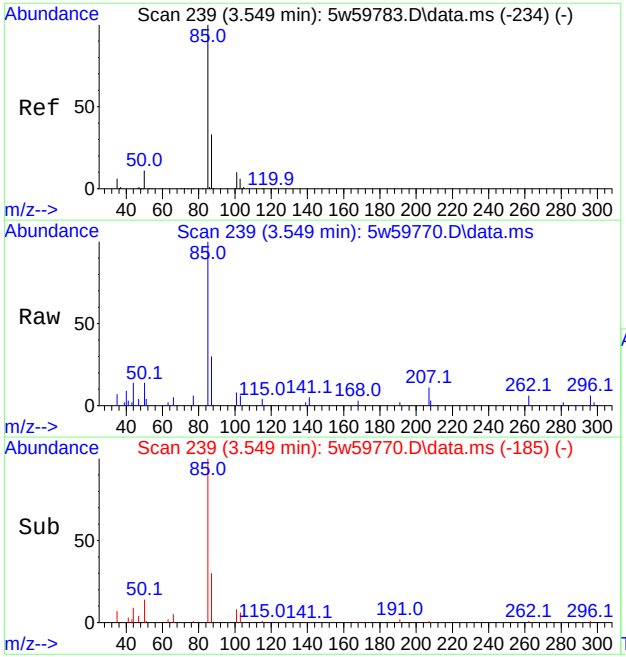


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:116 Resp: 7707

Ion	Ratio	Lower	Upper
116	100		
118	30.8	22.9	42.5
85	36.3	23.7	44.1
97	24.1	17.0	31.6

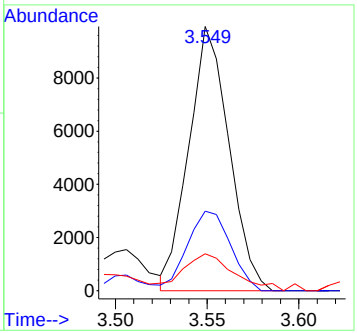


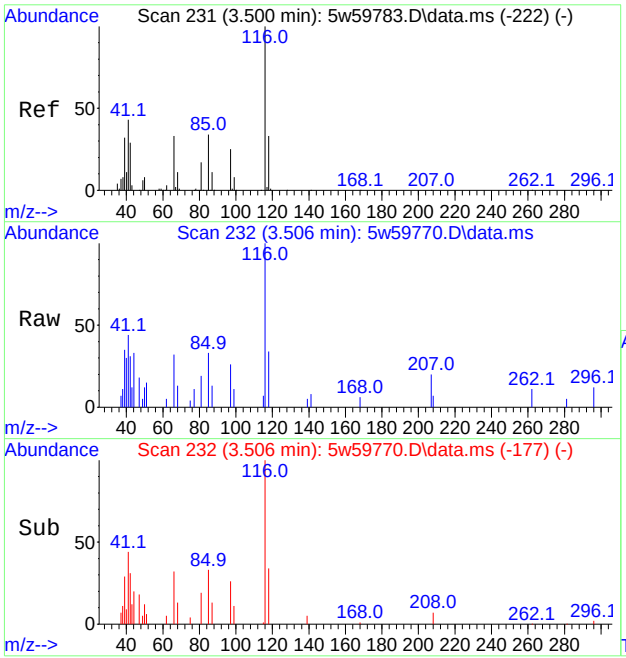


#6
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15163

Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.5	62.5
50	18.6	0.0	41.7

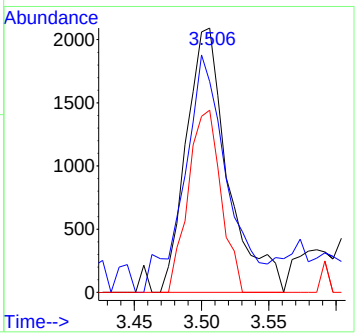


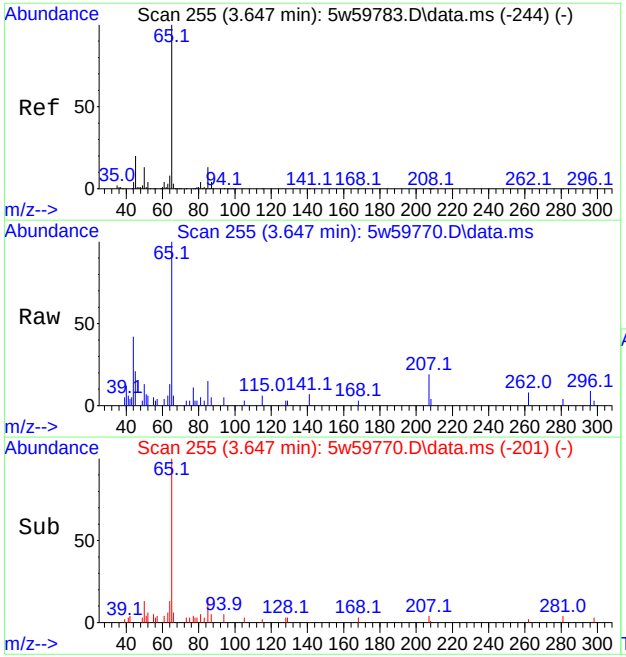


#7
PROPYLENE
Concen: 0.13 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 4519

Ion	Ratio	Lower	Upper
41	100		
39	113.7	45.1	105.1#
42	54.2	36.3	96.3

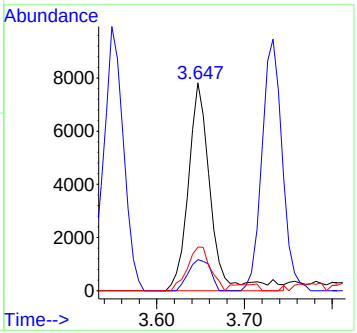


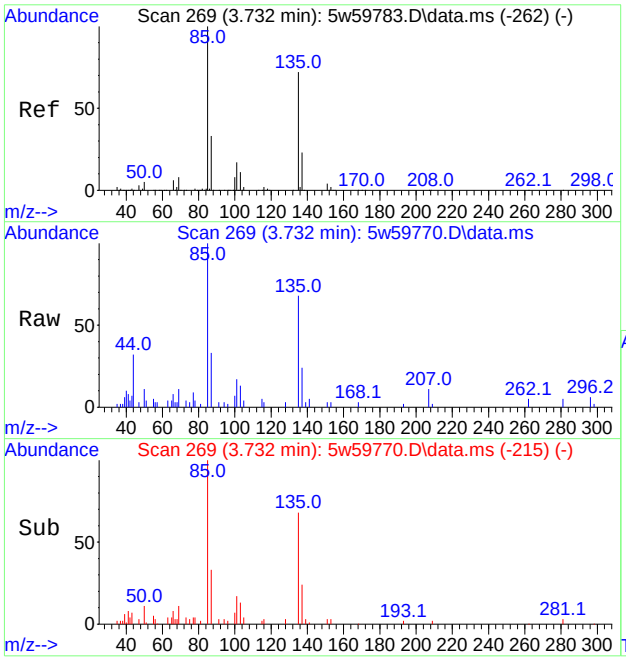


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.13 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 13862

Ion	Ratio	Lower	Upper
65	100		
85	14.7	11.5	21.3
45	21.5	14.0	26.0

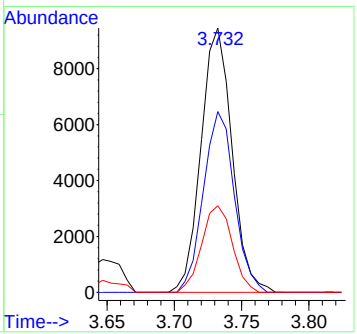


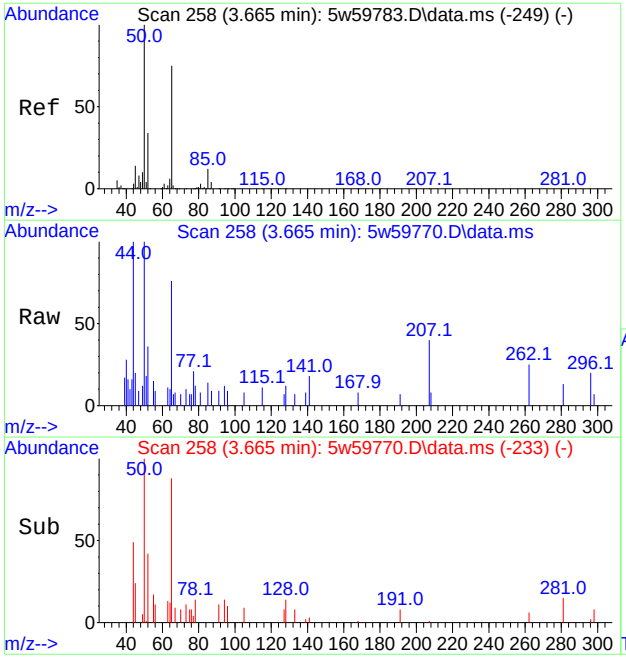


#9
FREON 114
Concen: 0.12 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15211

Ion	Ratio	Lower	Upper
85	100		
135	68.1	40.5	100.5
87	32.4	3.0	63.0

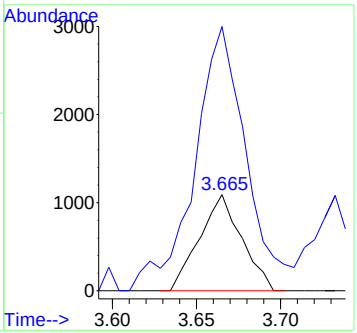


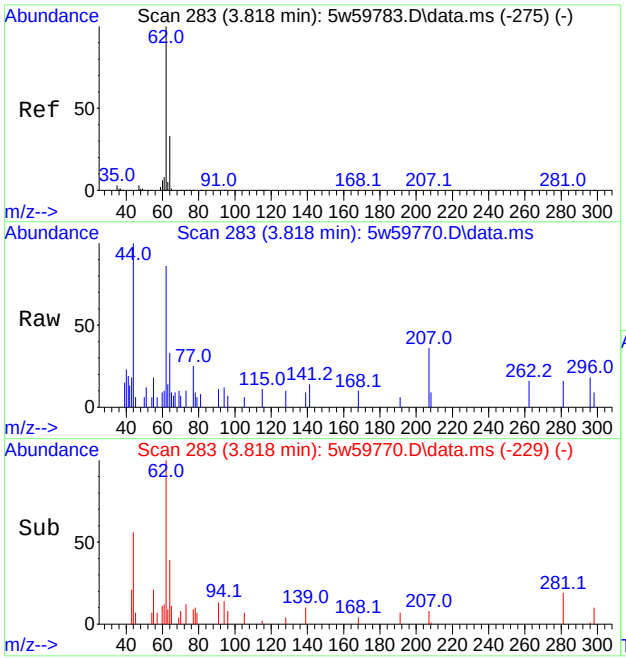


#10
CHLOROMETHANE
Concen: 0.13 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 1901

Ion	Ratio	Lower	Upper
52	100		
50	249.3	267.9	327.9#

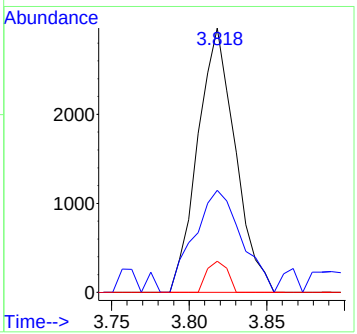


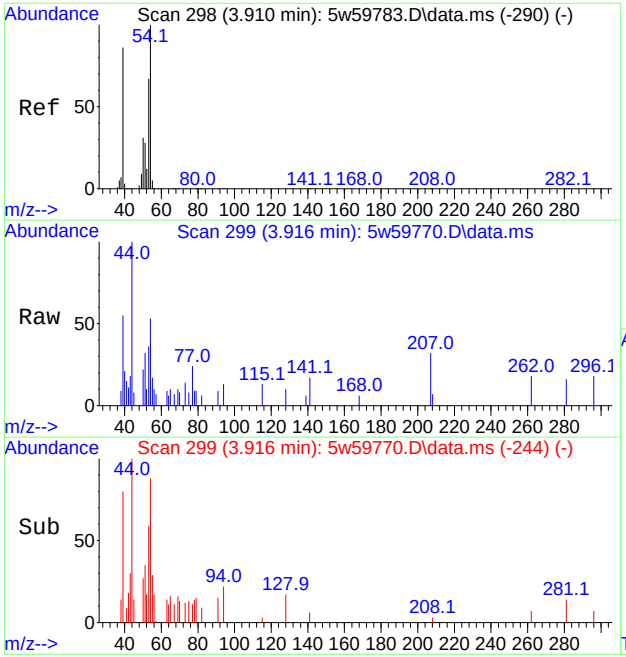


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 4992

Ion	Ratio	Lower	Upper
62	100		
64	48.5	3.6	63.6
61	6.6	0.0	38.2

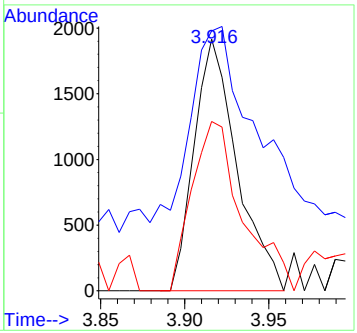


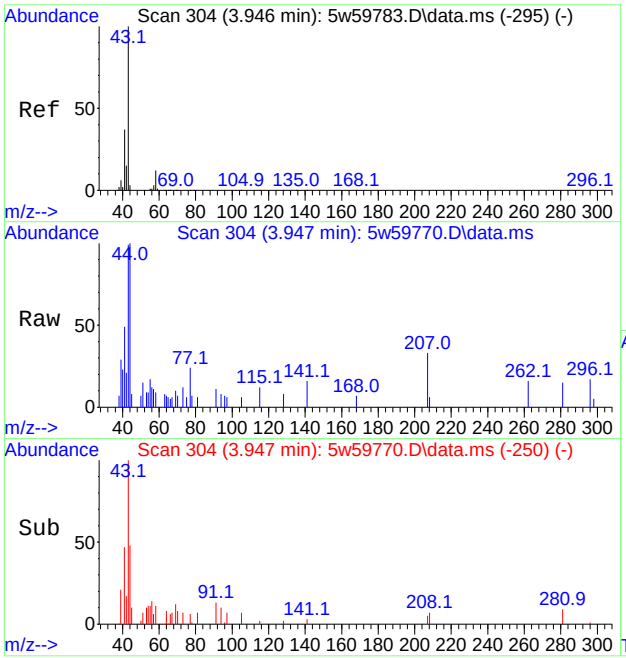


#12
1,3-BUTADIENE
Concen: 0.13 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 54 Resp: 3400

Ion	Ratio	Lower	Upper
54	100		
39	107.9	82.0	142.0
53	79.3	40.2	100.2

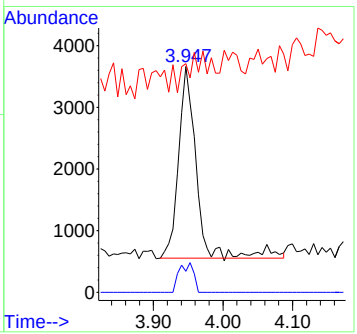


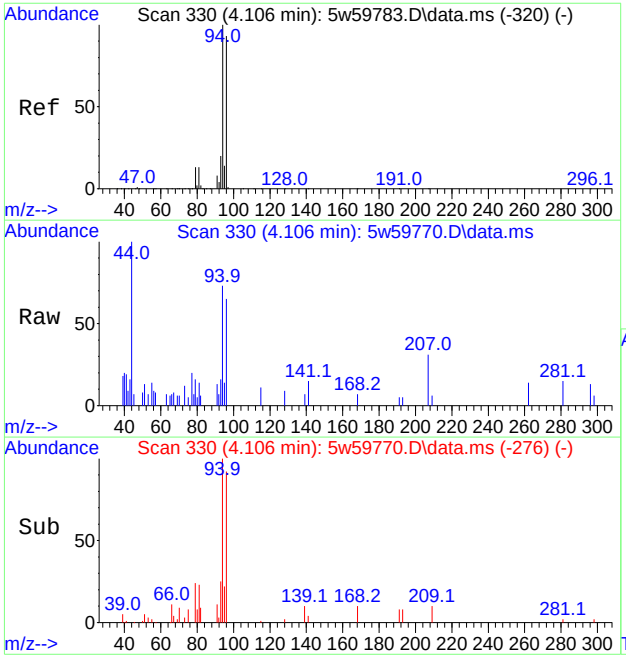


#13
n-BUTANE
Concen: 0.13 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 5567

Ion	Ratio	Lower	Upper
43	100		
58	12.4	0.0	42.6
44	0.0	0.0	34.9

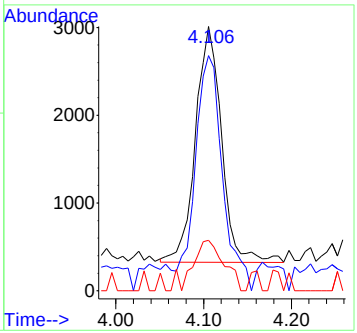


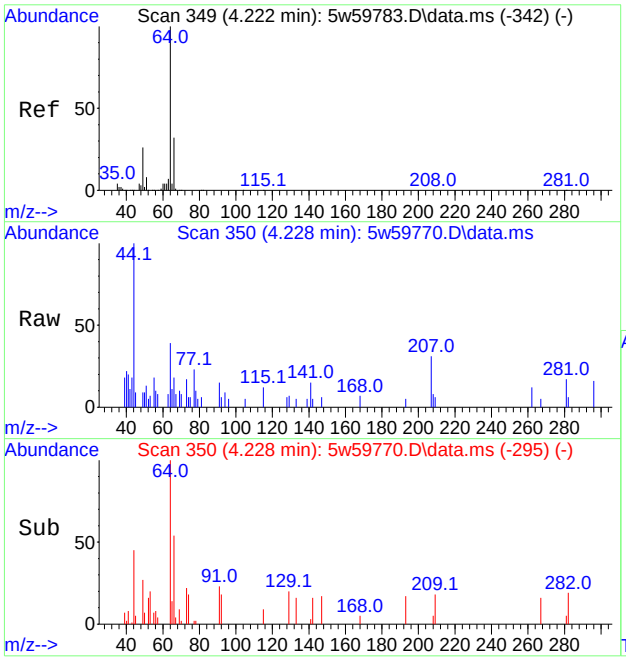


#14
BROMOMETHANE
Concen: 0.12 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 94 Resp: 5574

Ion	Ratio	Lower	Upper
94	100		
96	104.1	65.3	125.3
95	26.0	0.0	44.1

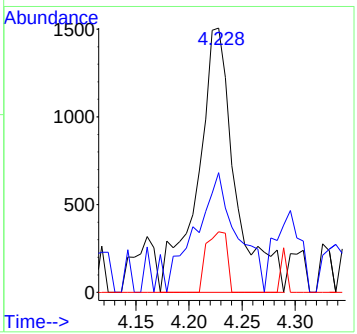


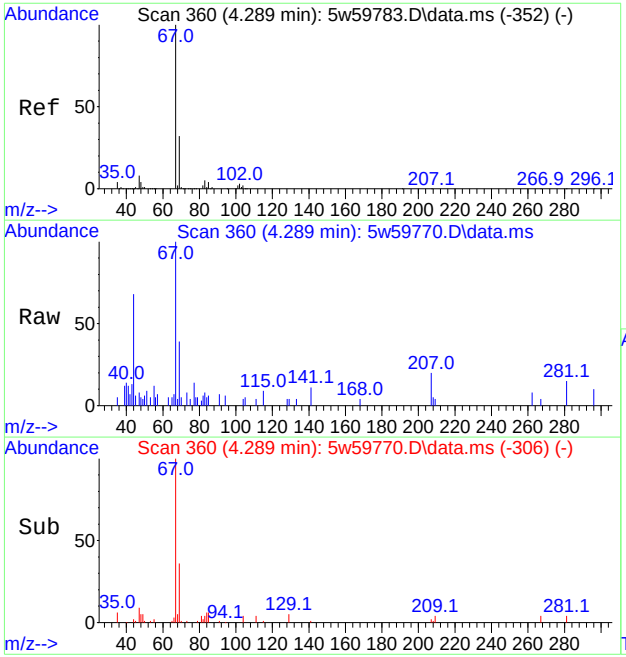


#15
CHLOROETHANE
Concen: 0.18 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 64 Resp: 3723

Ion	Ratio	Lower	Upper
64	100		
66	49.7	3.1	63.1
49	12.5	0.0	55.3

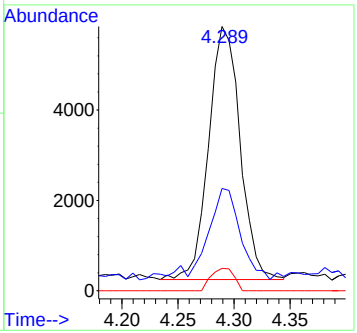


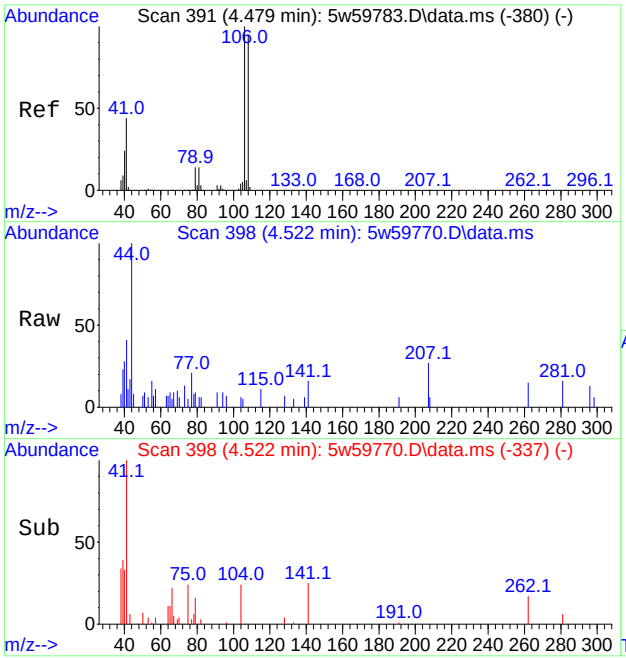


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 10972

Ion	Ratio	Lower	Upper
67	100		
69	38.6	22.7	42.3
47	6.5	5.6	10.4

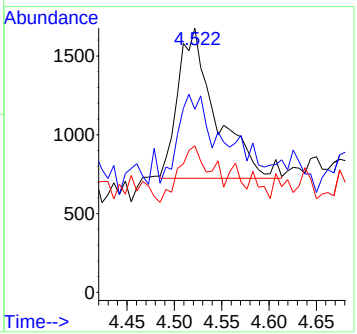


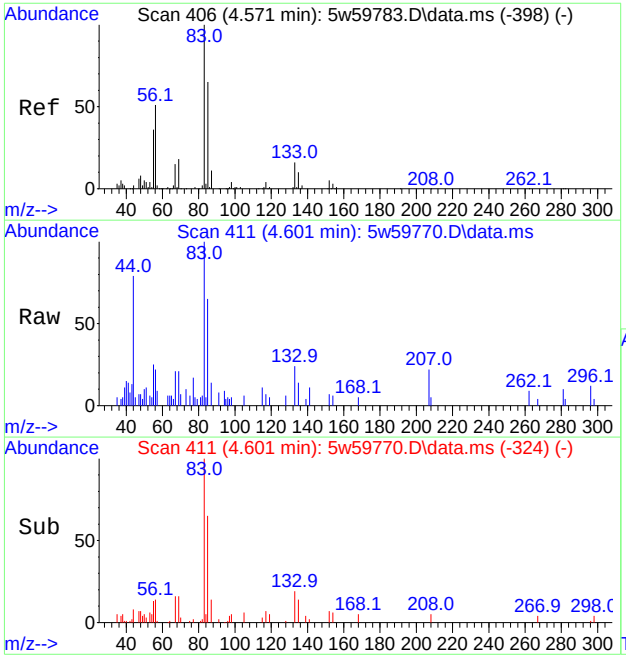


#17
ACETONITRILE
Concen: 0.10 PPBV m
RT: 4.522 min Scan# 398
Delta R.T. 0.043 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 2670

Ion	Ratio	Lower	Upper
41	100		
40	100.2	37.9	70.5#
39	46.6	13.4	24.8#

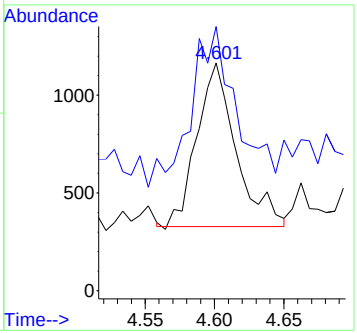


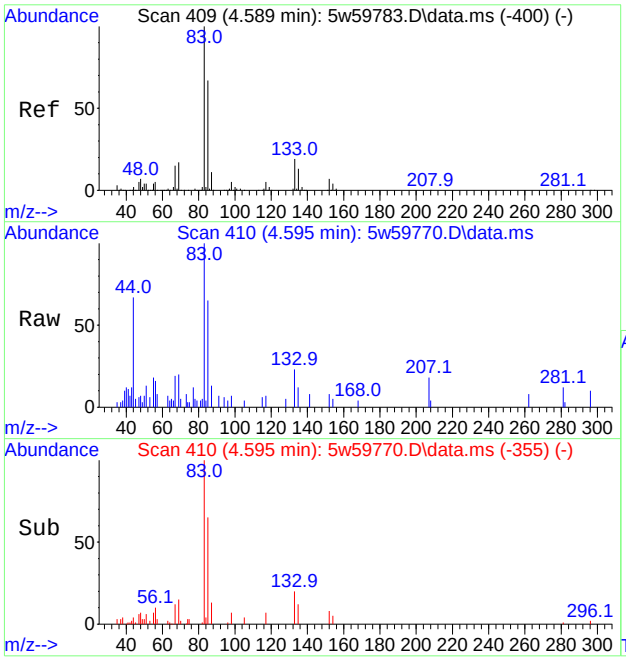


#18
ACROLEIN
Concen: 0.11 PPBV m
RT: 4.601 min Scan# 411
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 56 Resp: 1642

Ion	Ratio	Lower	Upper
56	100		
55	106.4	46.6	86.6#

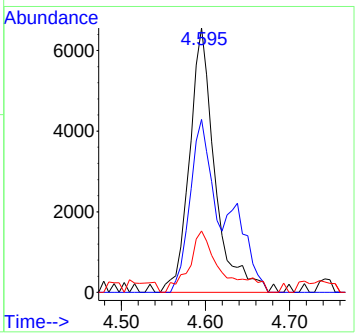


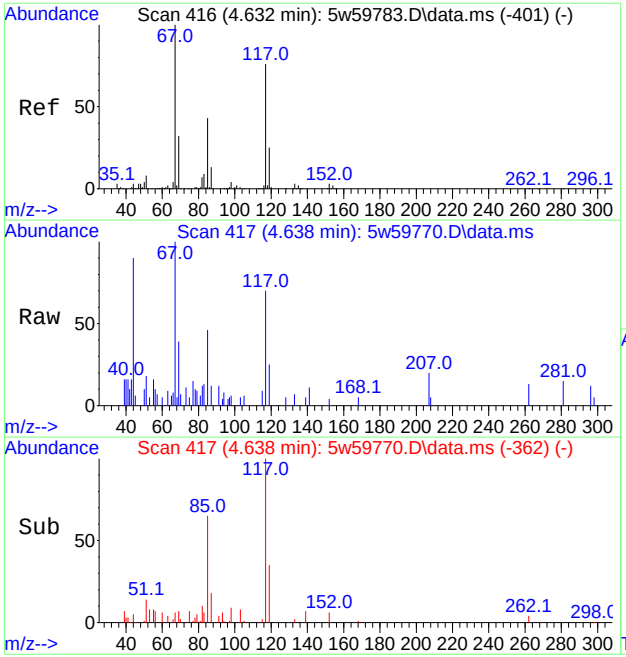


#19
FREON 123
Concen: 0.13 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 13808

Ion	Ratio	Lower	Upper
83	100		
85	60.2	34.0	94.0
133	28.7	0.0	50.7

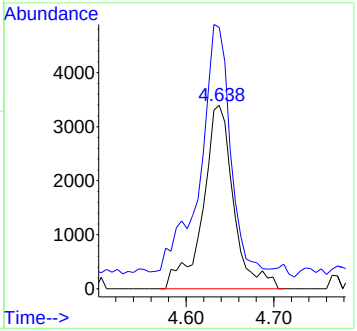


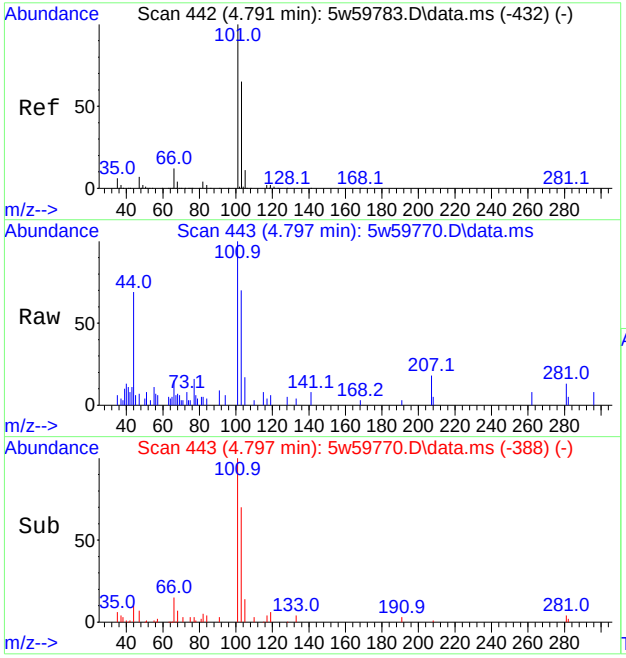


#20
FREON 123A
Concen: 0.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 8167

Ion	Ratio	Lower	Upper
117	100		
67	143.7	114.6	174.6

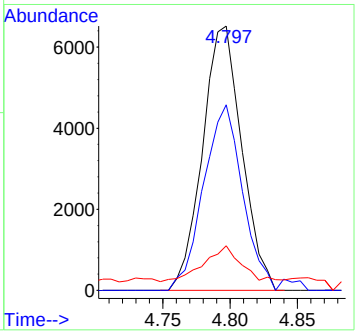


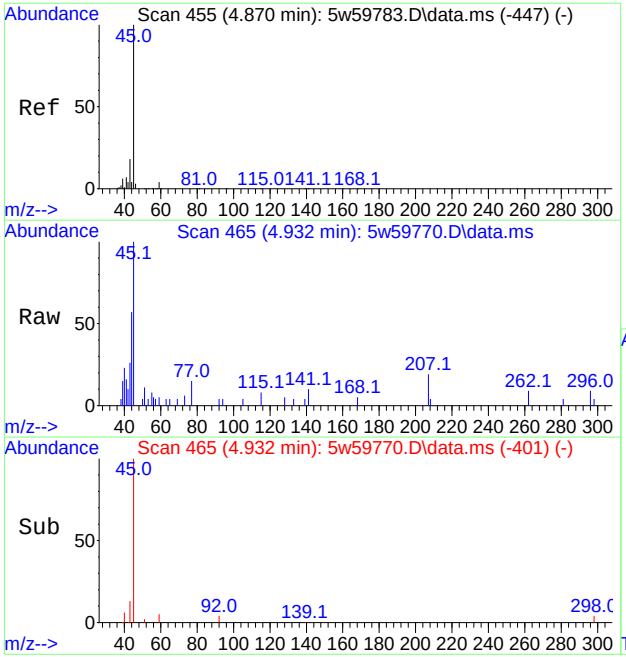


#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:101 Resp: 13248

Ion	Ratio	Lower	Upper
101	100		
103	69.6	35.0	95.0
105	25.5	0.0	40.7

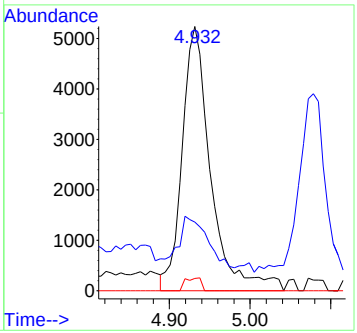


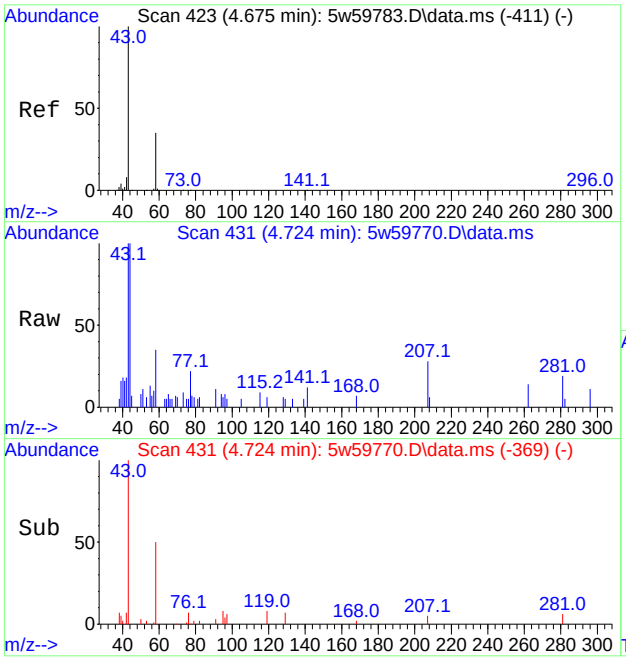


#22
ISOPROPYL ALCOHOL
Concen: 0.15 PPBV
RT: 4.932 min Scan# 465
Delta R.T. 0.062 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 12850

Ion	Ratio	Lower	Upper
45	100		
43	26.0	0.0	47.8
59	4.7	0.0	34.1

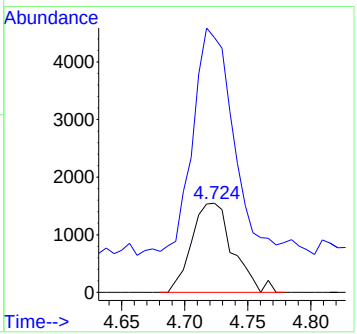


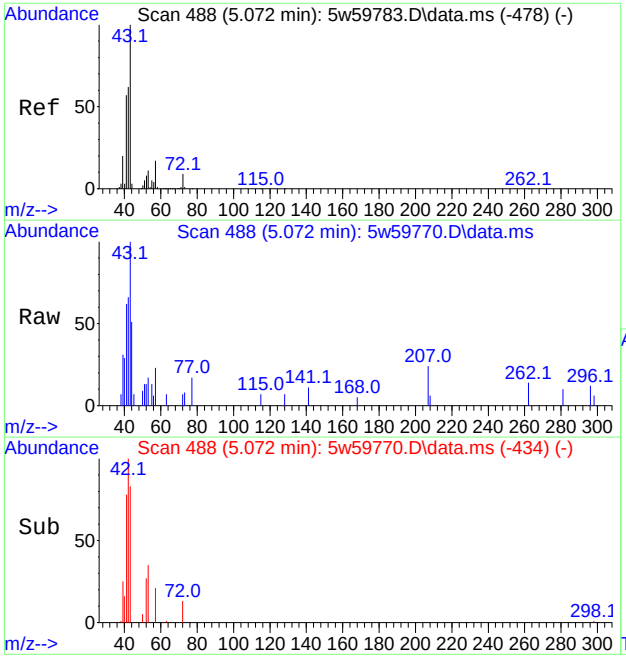


#23
ACETONE
Concen: 0.18 PPBV
RT: 4.724 min Scan# 431
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 3503

Ion	Ratio	Lower	Upper
58	100		
43	258.5	252.3	312.3

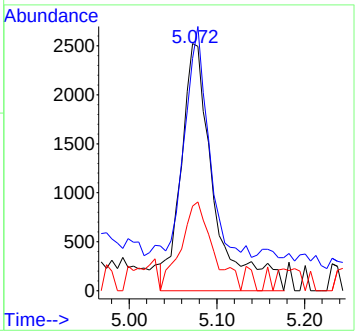


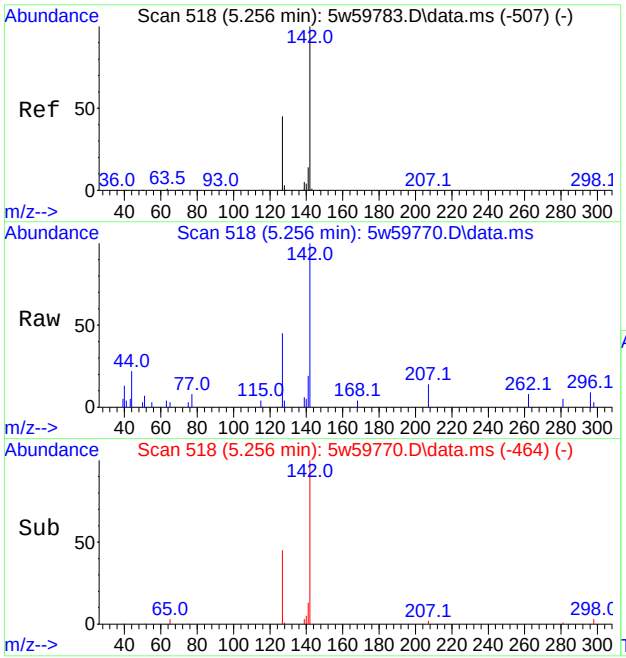


#24
PENTANE
Concen: 0.15 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 42 Resp: 6510

Ion	Ratio	Lower	Upper
42	100		
41	160.1	62.3	122.3#
57	35.3	0.0	57.7

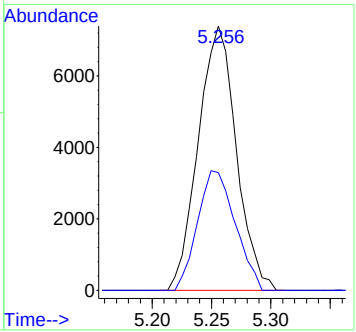


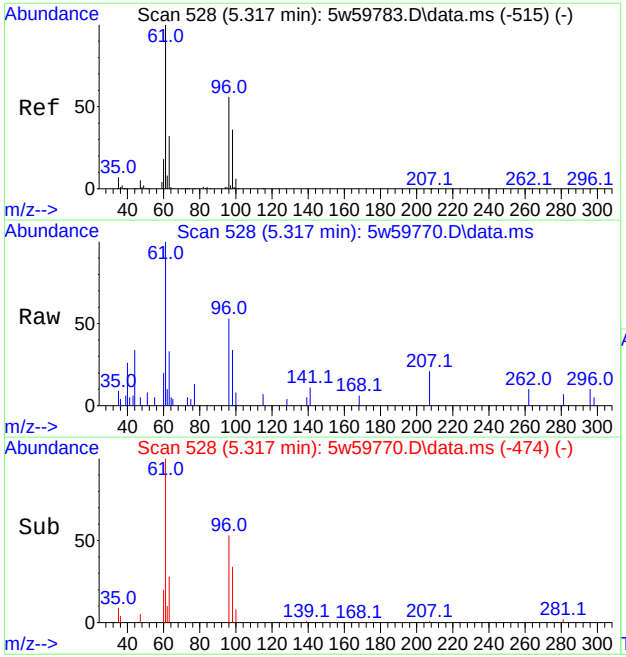


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:142 Resp: 16474

Ion	Ratio	Lower	Upper
142	100		
127	44.7	16.0	76.0

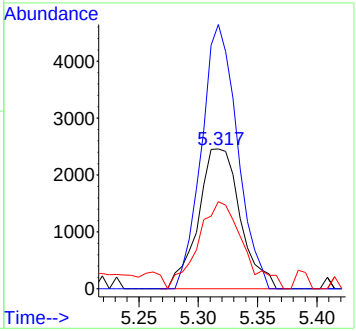


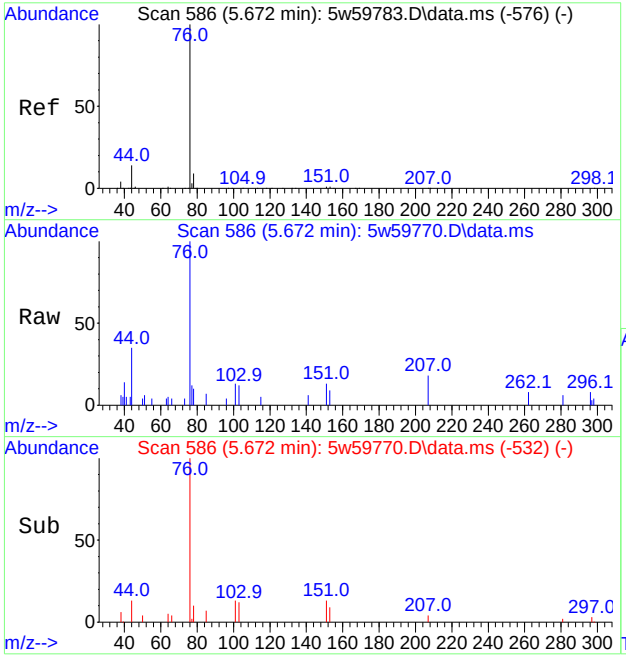


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6043

Ion	Ratio	Lower	Upper
96	100		
61	161.4	148.5	208.5
63	66.7	27.4	87.4

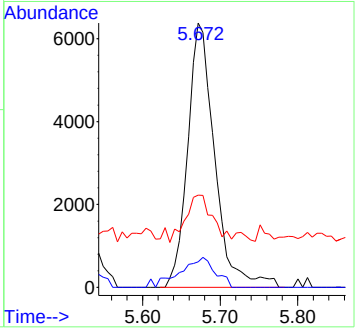


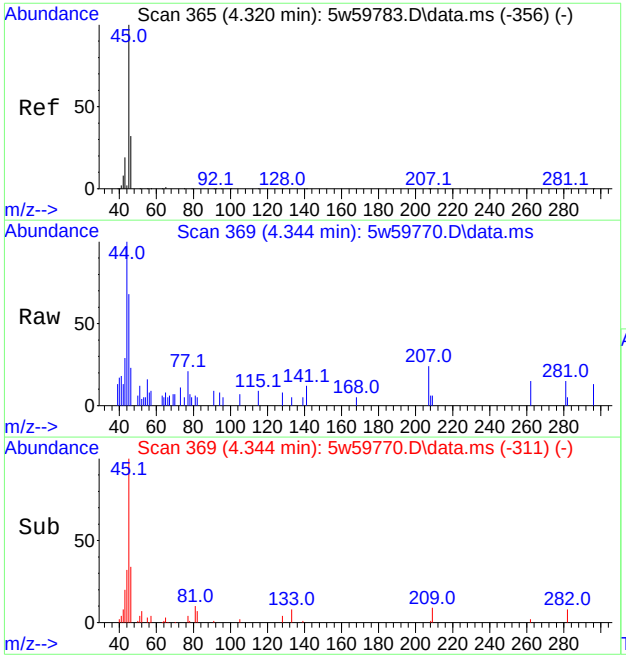


#27
CARBON DISULFIDE
Concen: 0.12 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 15443

Ion	Ratio	Lower	Upper
76	100		
78	14.8	0.0	41.5
44	19.6	0.0	44.6

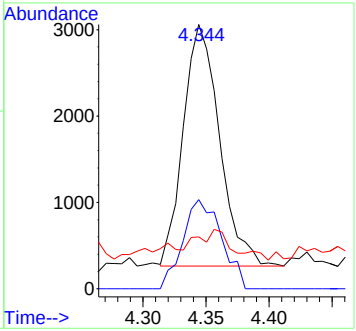


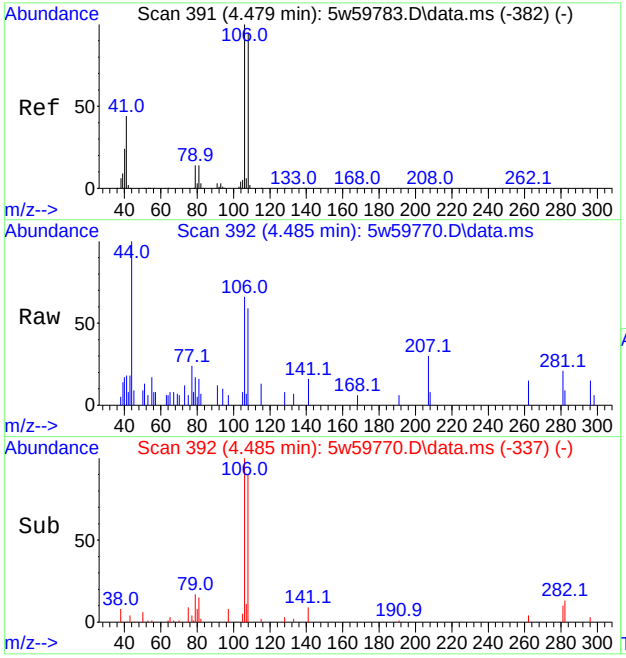


#28
ETHANOL
Concen: 0.26 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 5592

Ion	Ratio	Lower	Upper
45	100		
46	39.3	2.0	62.0
42	12.5	0.0	38.5

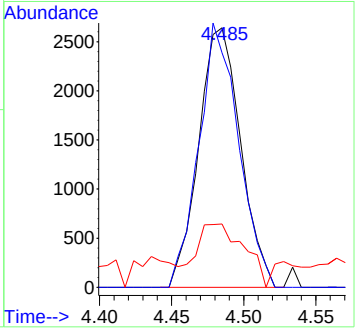


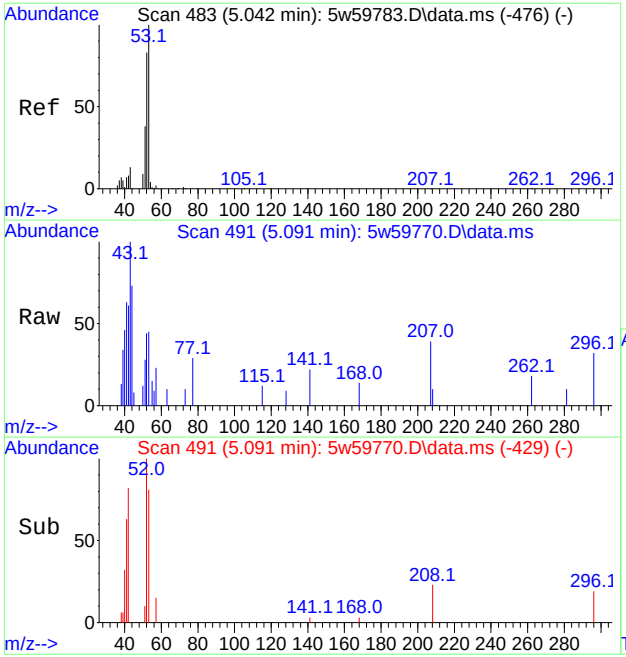


#29
BROMOETHENE
Concen: 0.11 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 5356

Ion	Ratio	Lower	Upper
106	100		
108	96.6	65.6	125.6
81	28.1	0.0	43.9

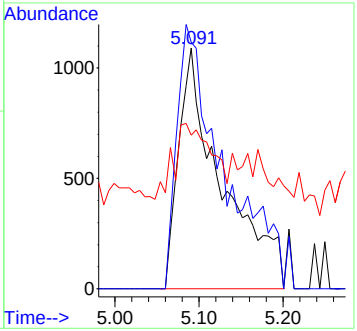


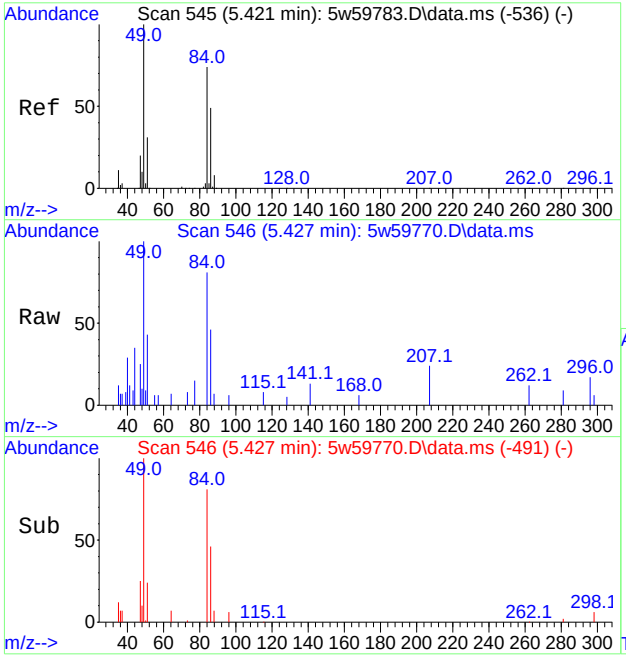


#30
ACRYLONITRILE
Concen: 0.12 PPBV
RT: 5.091 min Scan# 491
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 3869

Ion	Ratio	Lower	Upper
52	100		
53	121.0	85.8	159.4
51	65.0	32.3	60.1#

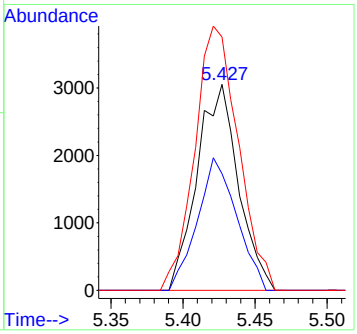


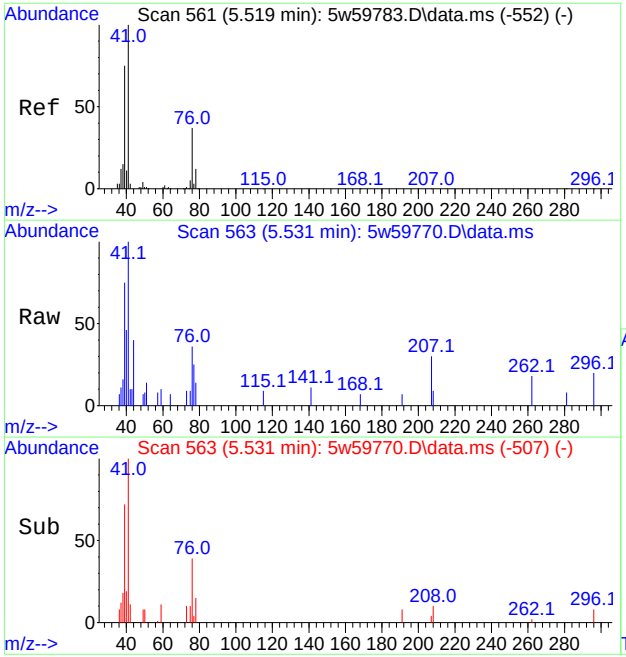


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 6090

Ion	Ratio	Lower	Upper
84	100		
86	61.0	35.2	95.2
49	135.4	105.3	165.3

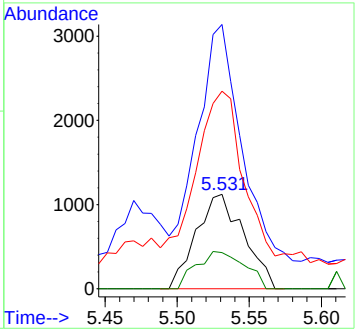


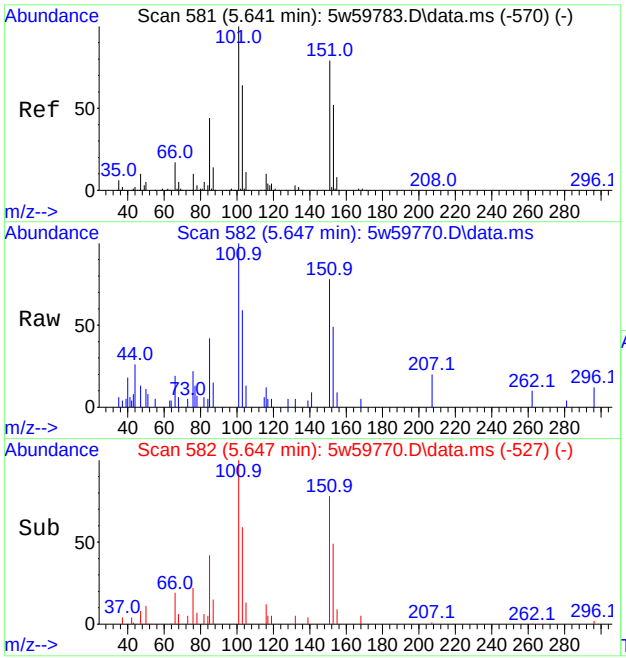


#32
3-CHLOROPROPENE
Concen: 0.11 PPBV
RT: 5.531 min Scan# 563
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 2581

Ion	Ratio	Lower	Upper
76	100		
41	416.2	240.8	300.8#
39	186.5	173.6	233.6
78	40.1	2.8	62.8

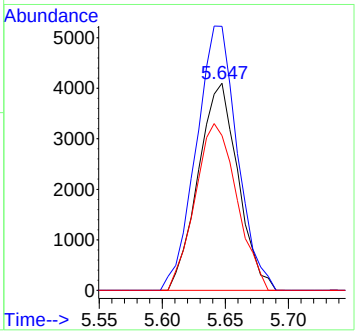


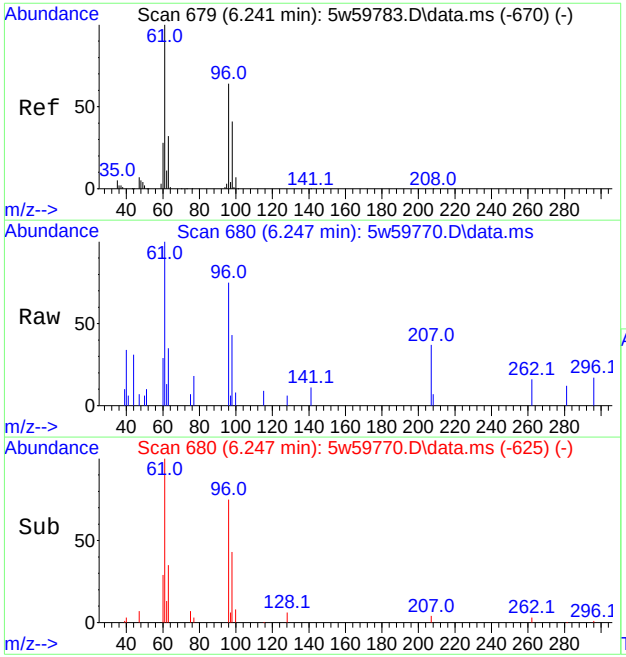


#33
FREON 113
Concen: 0.10 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:151 Resp: 8991

Ion	Ratio	Lower	Upper
151	100		
101	131.6	97.5	157.5
103	84.2	52.5	112.5

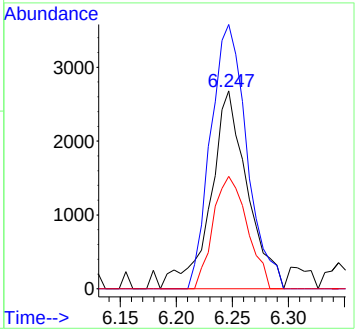


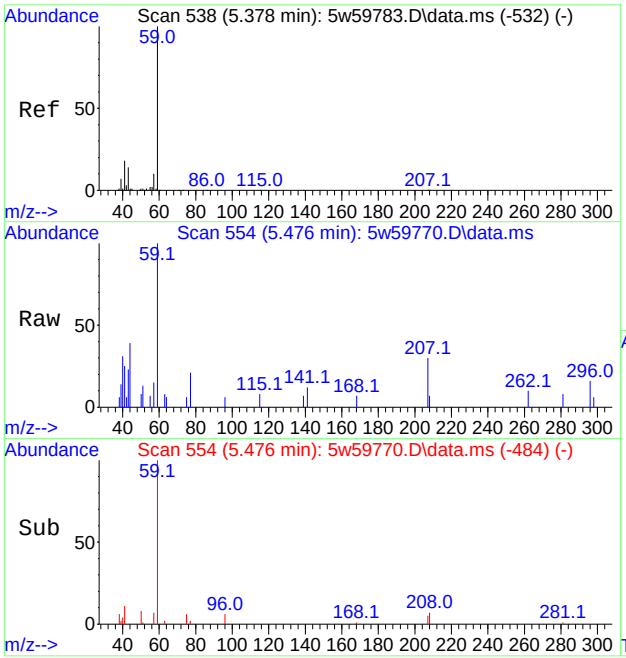


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6117

Ion	Ratio	Lower	Upper
96	100		
61	131.9	126.4	186.4
98	52.8	34.1	94.1

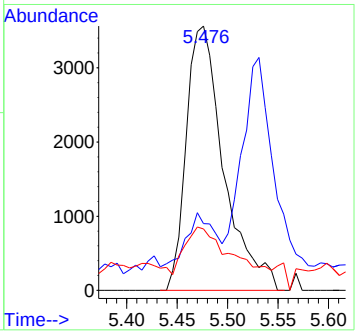


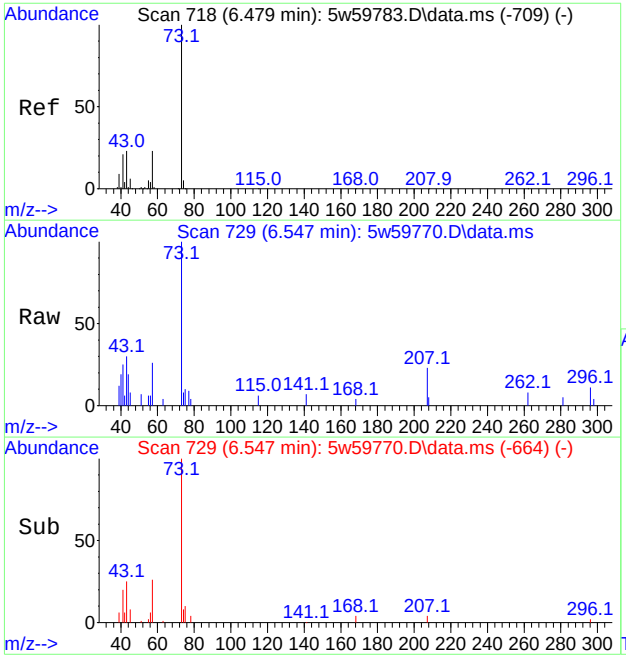


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.09 PPBV
RT: 5.476 min Scan# 554
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 9217

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	36.4	0.0	44.1

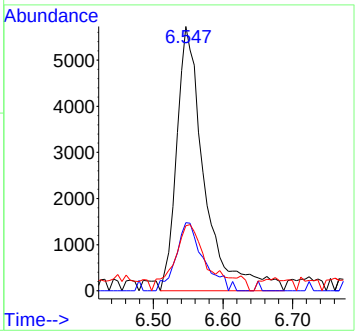


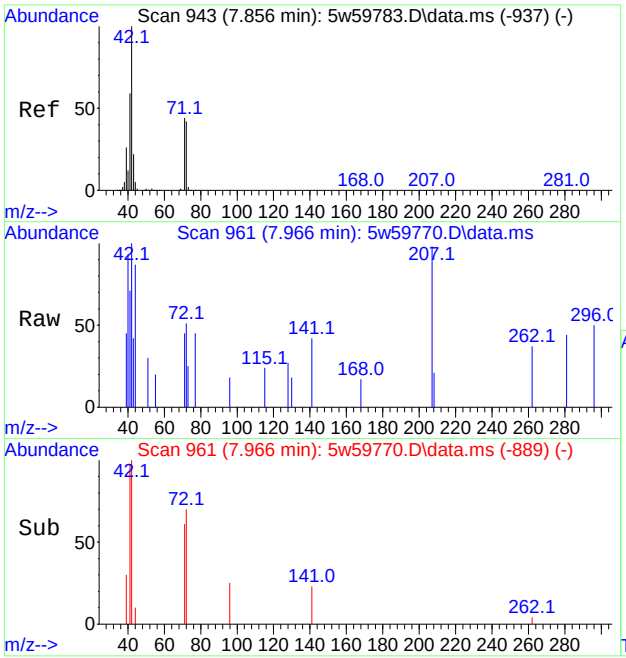


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.12 PPBV
RT: 6.547 min Scan# 729
Delta R.T. 0.068 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 73 Resp: 15796

Ion	Ratio	Lower	Upper
73	100		
57	25.8	0.0	53.1
41	30.7	0.0	50.6

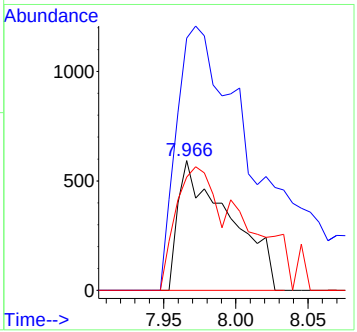


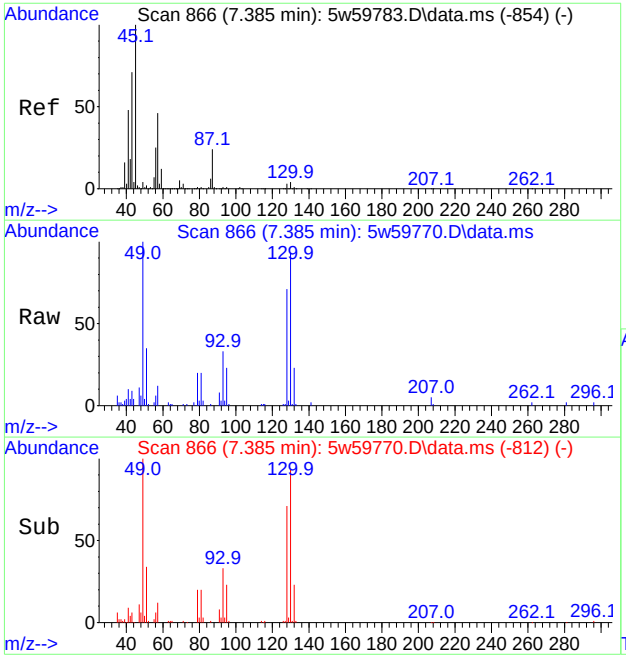


#37
TETRAHYDROFURAN
Concen: 0.08 PPBV
RT: 7.966 min Scan# 961
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 1469

Ion	Ratio	Lower	Upper
72	100		
42	342.0	202.4	262.4#
71	131.0	71.1	131.1

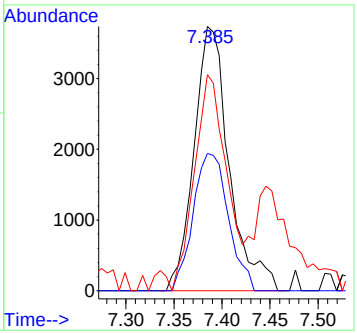


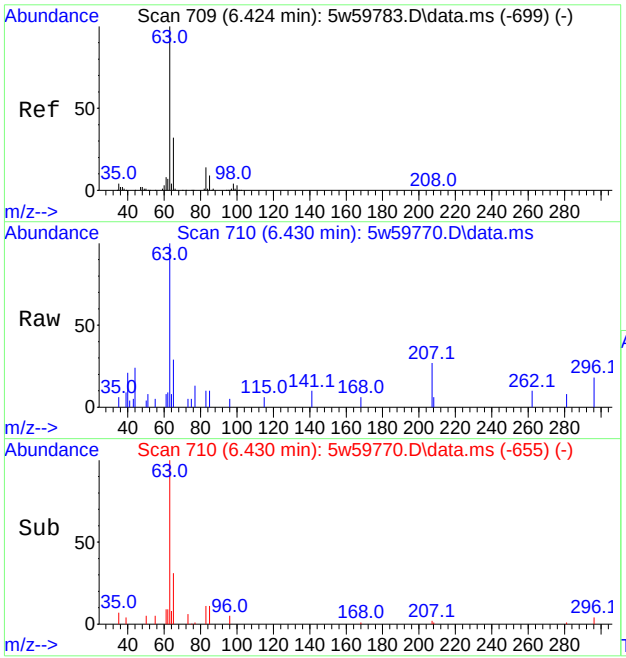


#38
HEXANE
Concen: 0.13 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9533

Ion	Ratio	Lower	Upper
57	100		
56	52.0	25.9	85.9
41	80.5	74.7	134.7

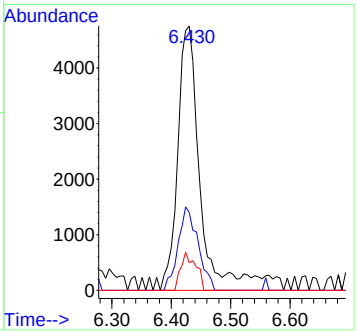


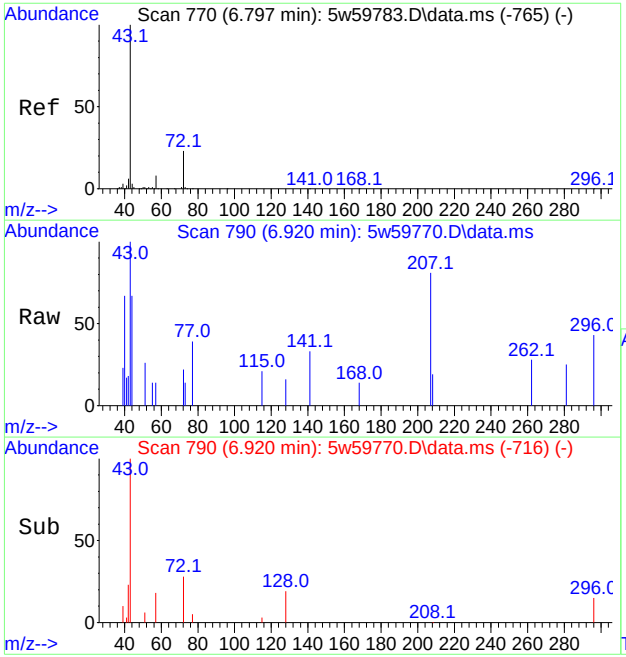


#40
1,1-DICHLOROETHANE
Concen: 0.14 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 12904

Ion	Ratio	Lower	Upper
63	100		
65	27.4	1.7	61.7
83	9.4	0.0	43.5

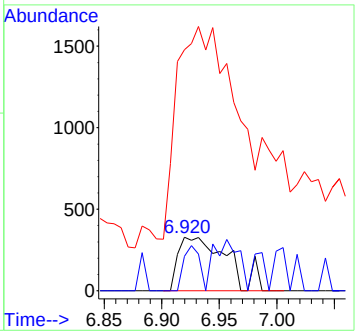


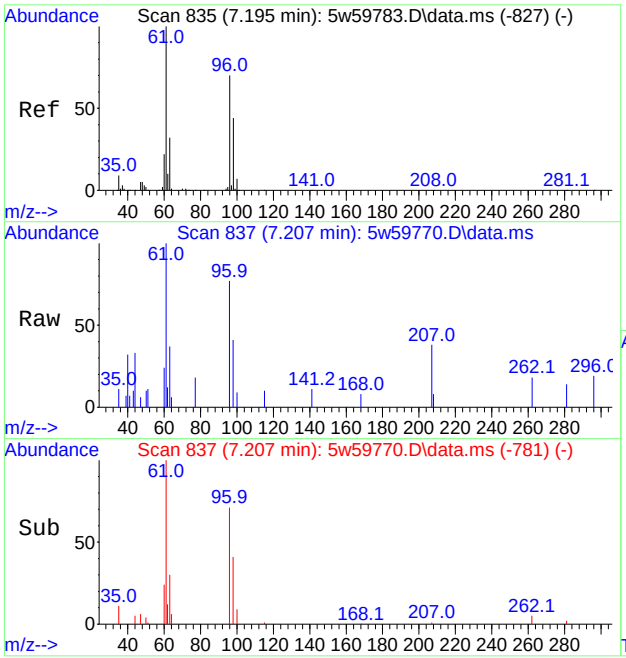


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV m
RT: 6.920 min Scan# 790
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 956

Ion	Ratio	Lower	Upper
72	100		
57	64.6	4.8	64.8
43	450.9	415.9	475.9

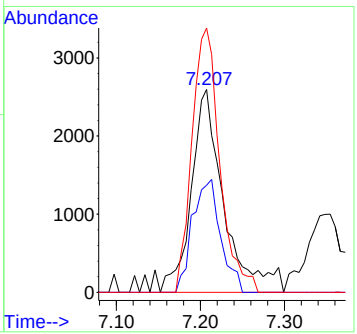


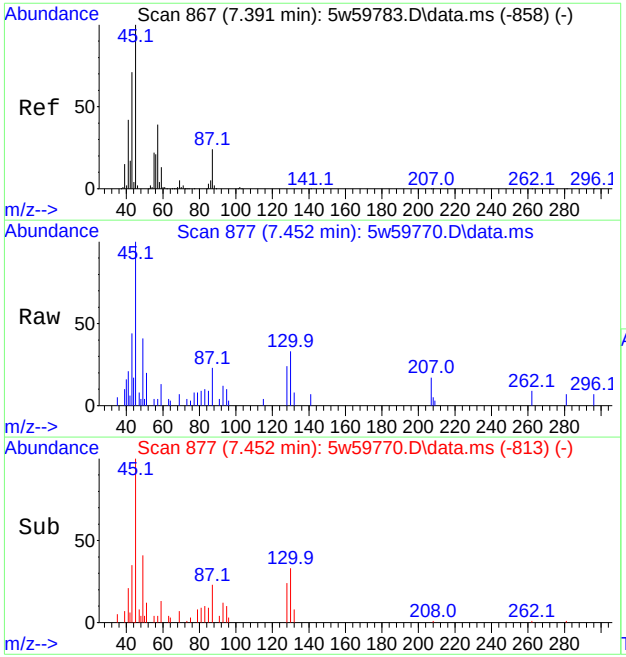


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.13 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6979

Ion	Ratio	Lower	Upper
96	100		
98	48.0	34.0	94.0
61	111.6	111.5	171.5

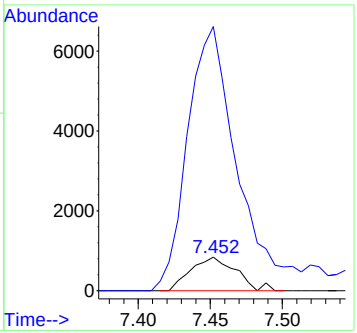


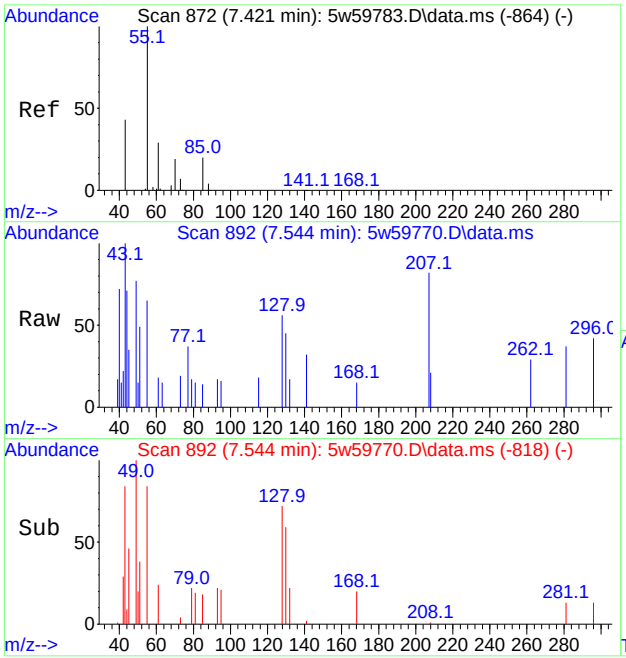


#43
DIISOPROPYL ETHER
Concen: 0.09 PPBV
RT: 7.452 min Scan# 877
Delta R.T. 0.061 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 1846

Ion	Ratio	Lower	Upper
59	100		
45	973.3	720.9	780.9#

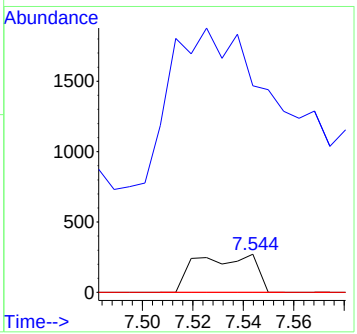


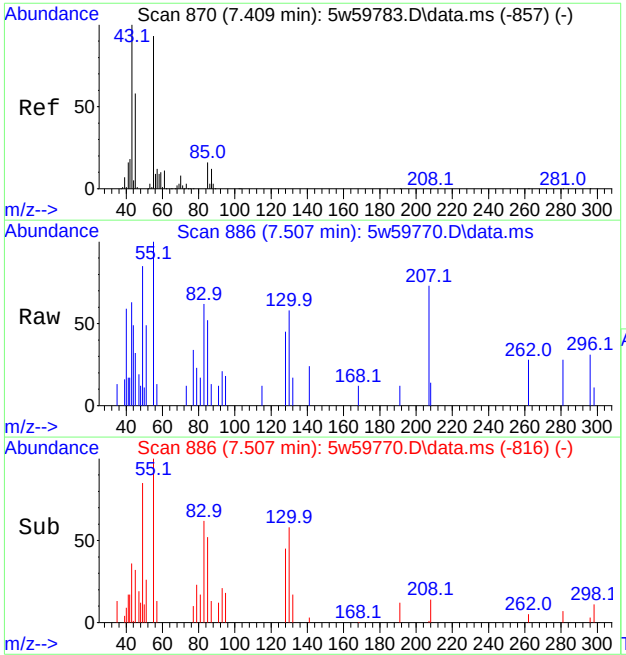


#44
ETHYL ACETATE
Concen: 0.03 PPBV m
RT: 7.544 min Scan# 892
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 61 Resp: 434

Ion	Ratio	Lower	Upper
61	100		
43	829.0	560.5	620.5#
88	0.0	4.5	64.5#

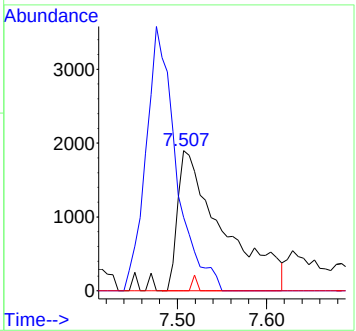


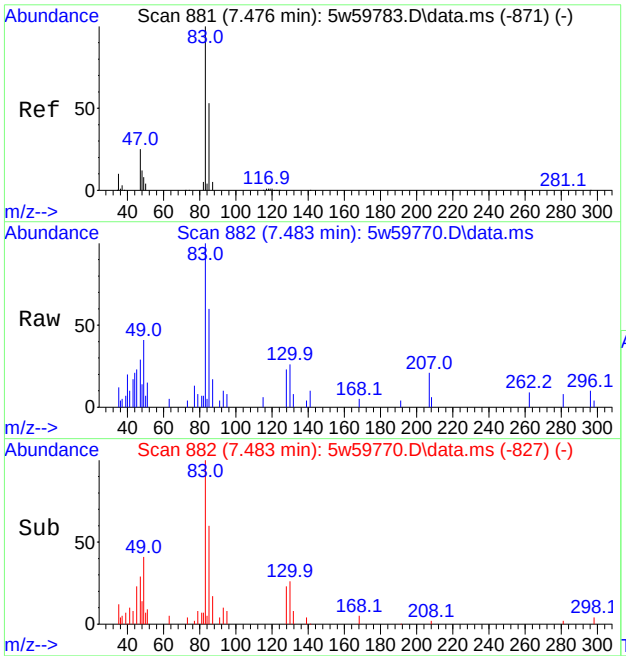


#45
METHYL ACRYLATE
Concen: 0.08 PPBV m
RT: 7.507 min Scan# 886
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 55 Resp: 6719

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

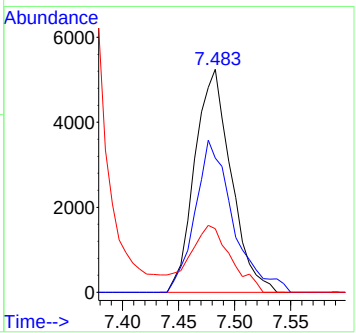


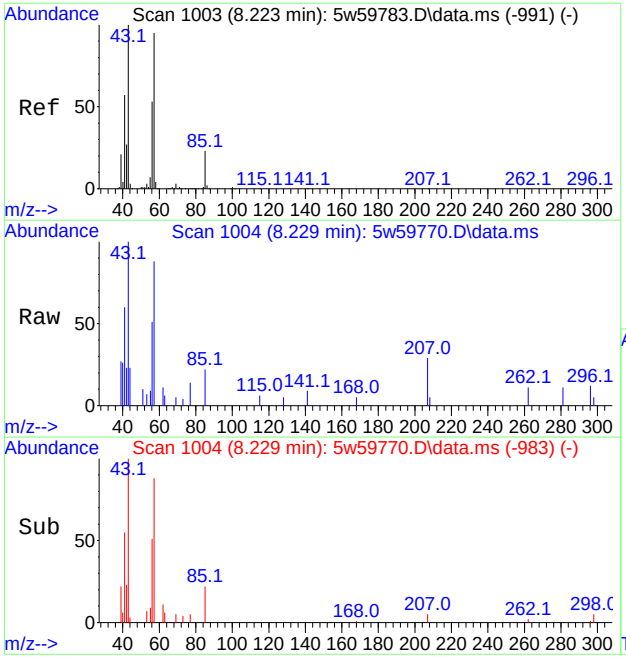


#46
CHLOROFORM
Concen: 0.11 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 11842

Ion	Ratio	Lower	Upper
83	100		
85	71.3	35.6	95.6
47	32.6	0.0	55.2

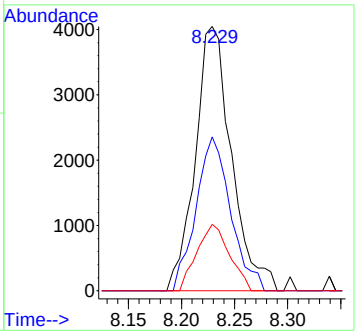


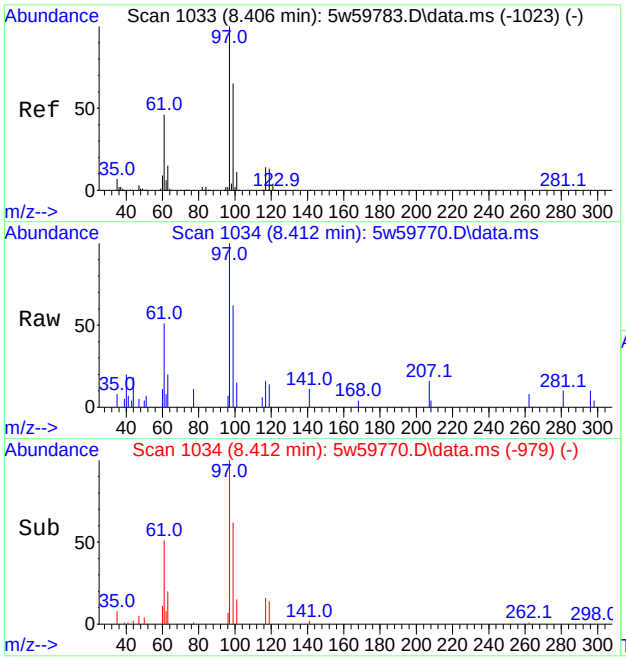


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9616

Ion	Ratio	Lower	Upper
57	100		
56	55.5	26.5	86.5
85	22.6	0.0	53.8

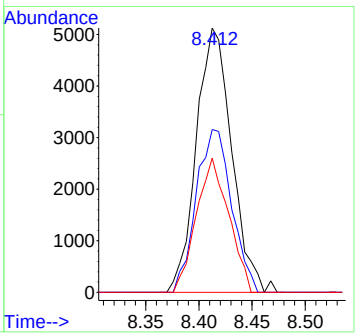


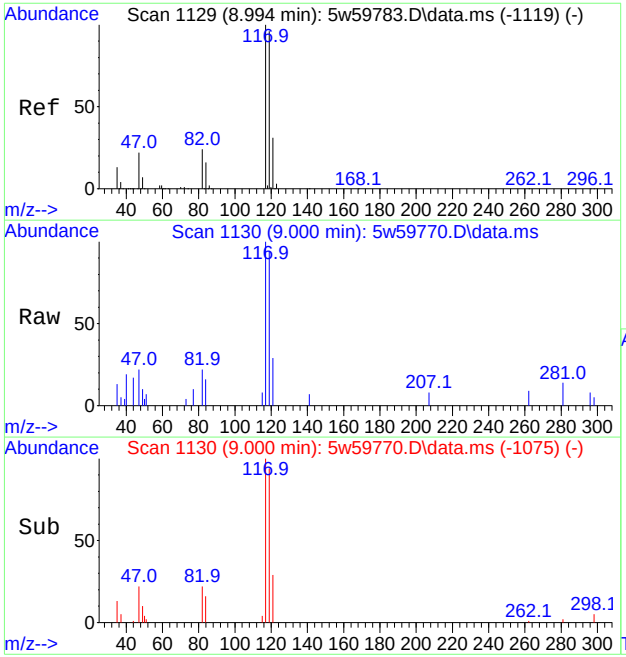


#48
1,1,1-TRICHLOROETHANE
Concen: 0.11 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 97 Resp: 11905

Ion	Ratio	Lower	Upper
97	100		
99	61.5	34.8	94.8
61	46.5	15.8	75.8

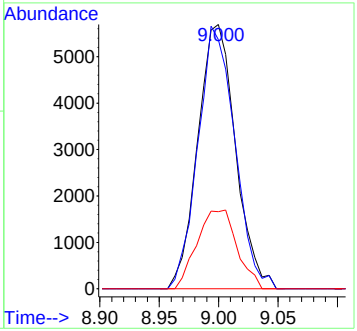


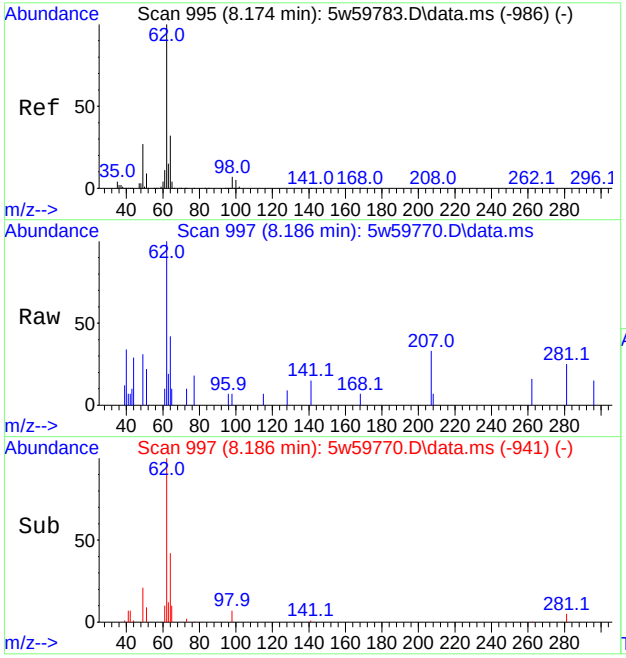


#49
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 12586

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.4	1.3	61.3

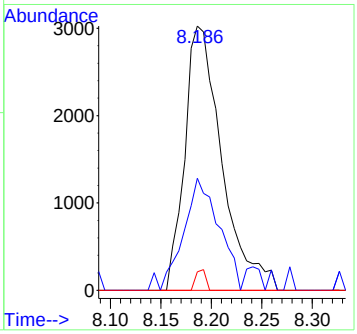


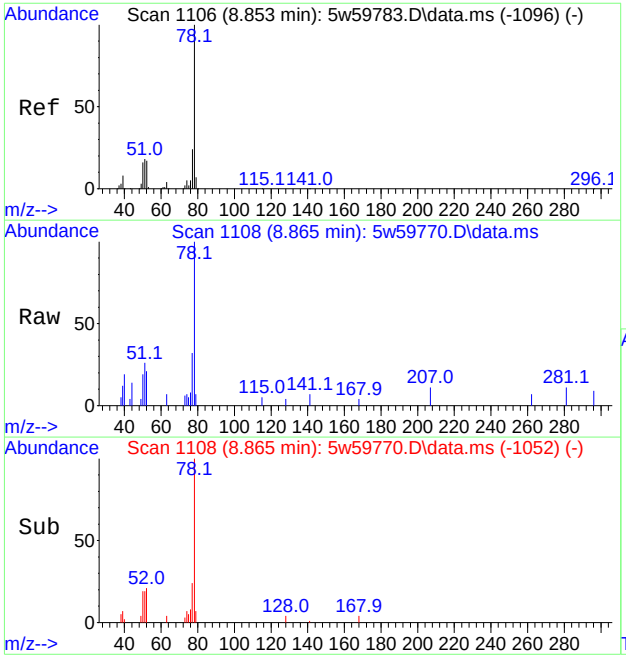


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 7761

Ion	Ratio	Lower	Upper
62	100		
64	40.9	2.3	62.3
98	2.1	0.0	36.9

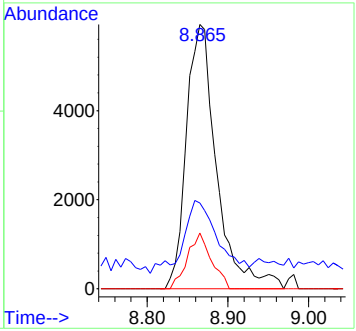


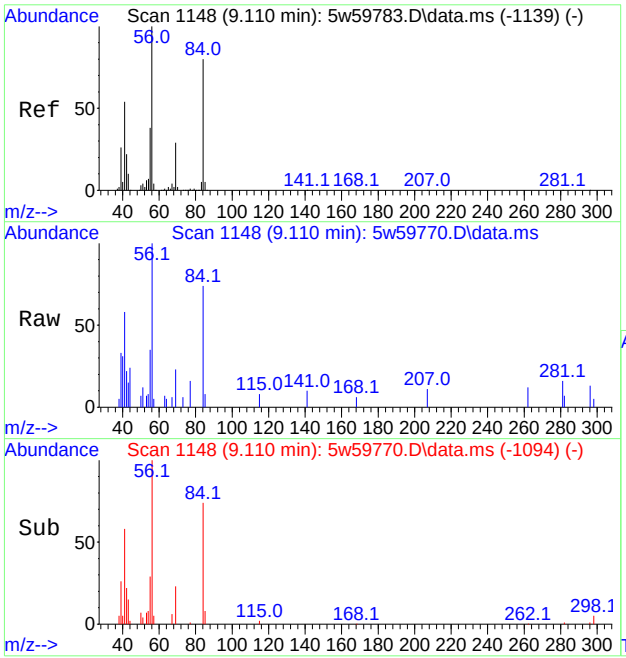


#52
BENZENE
Concen: 0.11 PPBV
RT: 8.865 min Scan# 1108
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 78 Resp: 15430

Ion	Ratio	Lower	Upper
78	100		
77	31.0	0.0	53.8
52	16.7	0.0	46.9

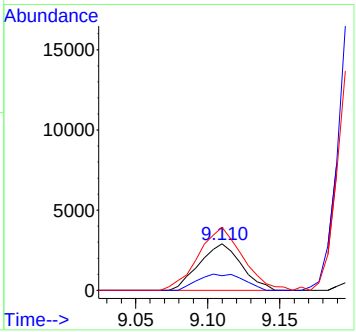


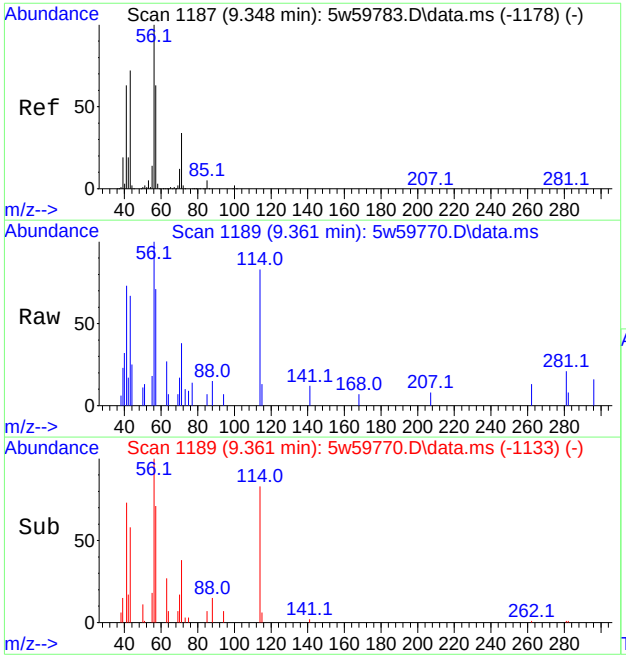


#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 5905

Ion	Ratio	Lower	Upper
84	100		
69	38.2	6.9	66.9
56	142.3	98.2	158.2

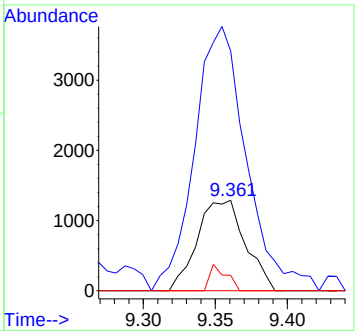


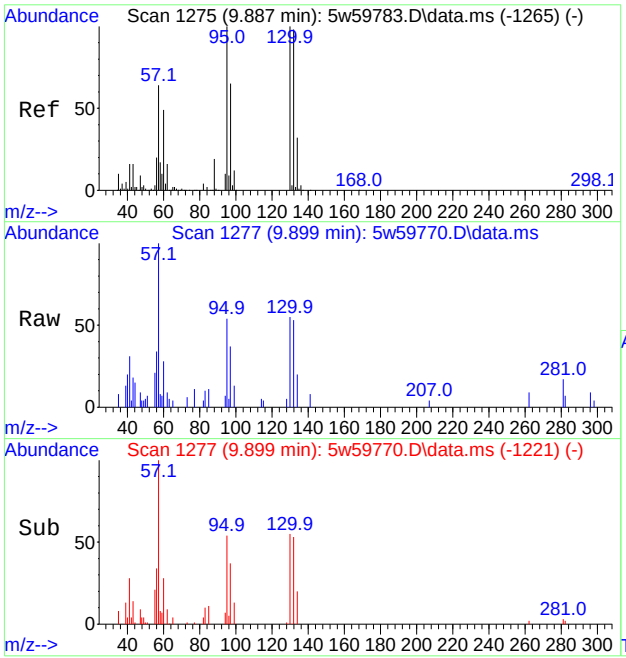


#54
2,3-DIMETHYLPENTANE
Concen: 0.10 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 71 Resp: 2989

Ion	Ratio	Lower	Upper
71	100		
56	315.8	264.6	324.6
85	10.1	0.0	45.3

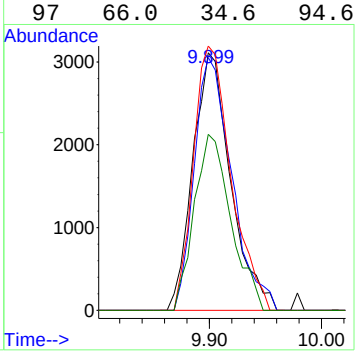


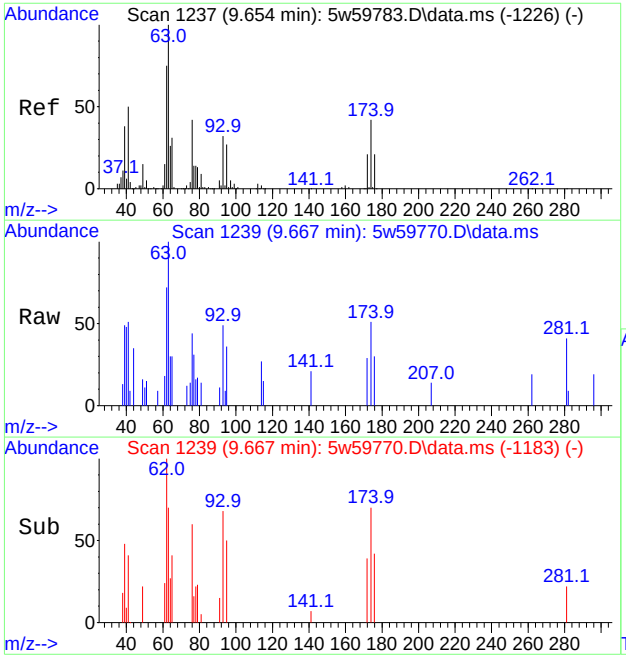


#55
TRICHLOROETHYLENE
Concen: 0.10 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 95 Resp: 7303

Ion	Ratio	Lower	Upper
95	100		
132	97.0	69.0	129.0
130	101.9	70.6	130.6
97	66.0	34.6	94.6

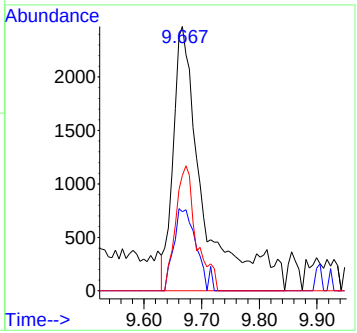


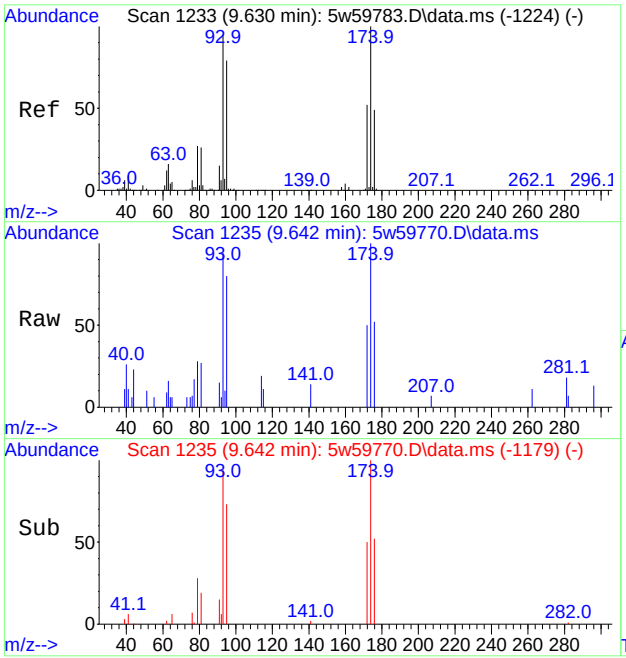


#56
1,2-DICHLOROPROPANE
Concen: 0.15 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 9099

Ion	Ratio	Lower	Upper
63	100		
65	22.9	0.5	60.5
76	31.9	11.5	71.5

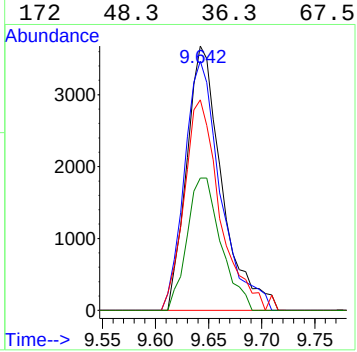


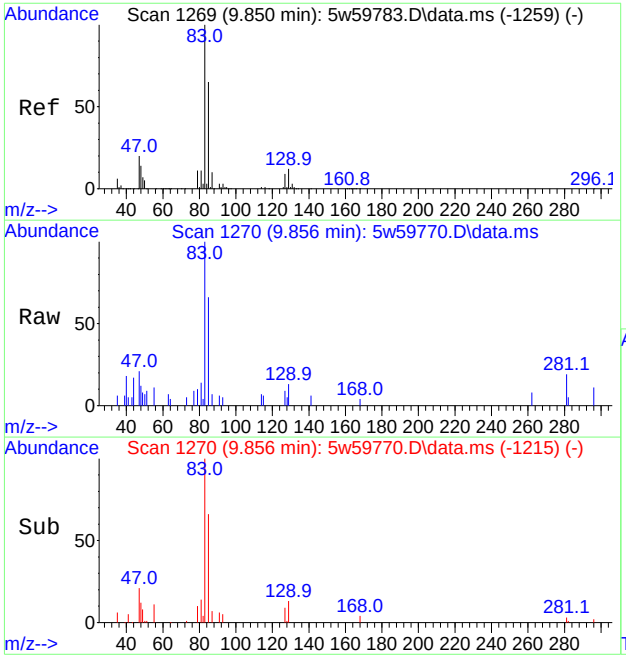


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:174 Resp: 8479

Ion	Ratio	Lower	Upper
174	100		
93	96.7	65.0	120.6
95	81.4	54.5	101.1
172	48.3	36.3	67.5

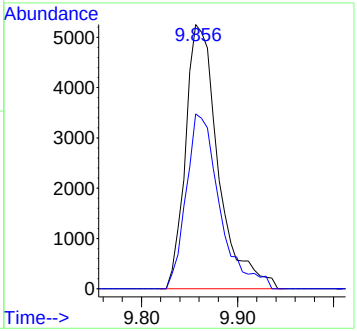


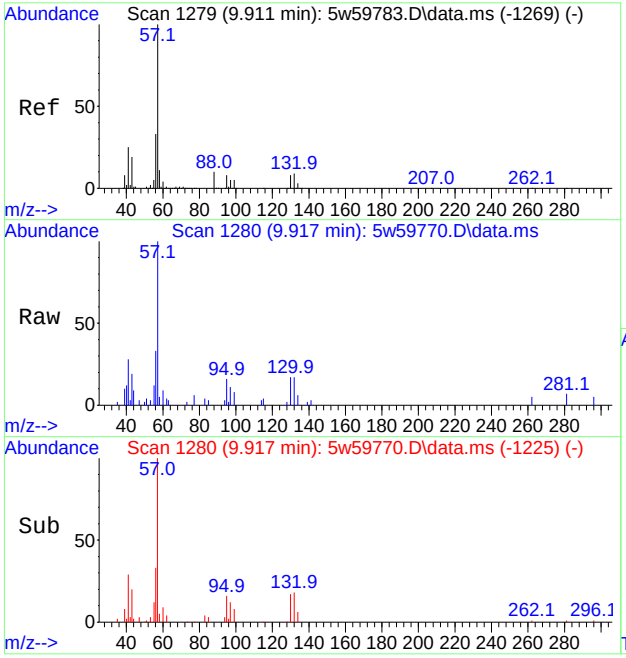


#59
BROMODICHLOROMETHANE
Concen: 0.10 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 12436

Ion	Ratio	Lower	Upper
83	100		
85	67.7	33.4	93.4

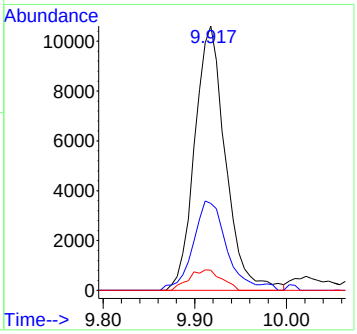


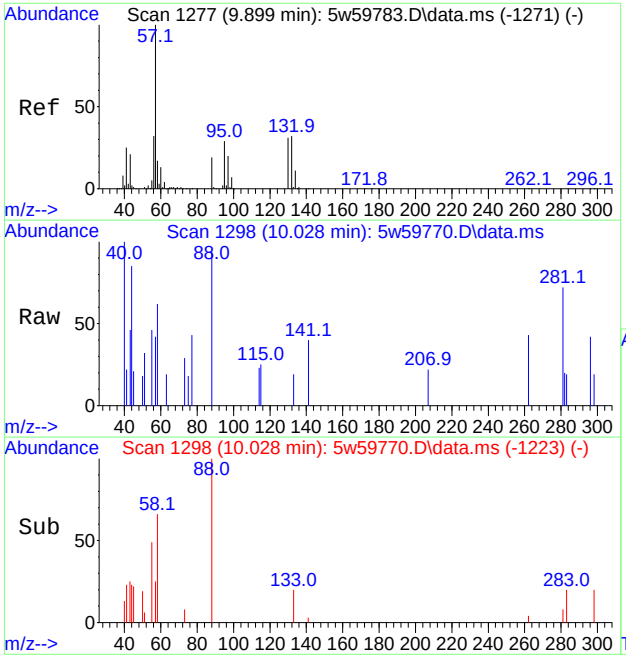


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 24769

Ion	Ratio	Lower	Upper
57	100		
56	37.1	2.5	62.5
99	8.2	0.0	37.3

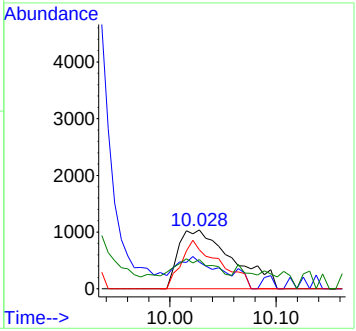


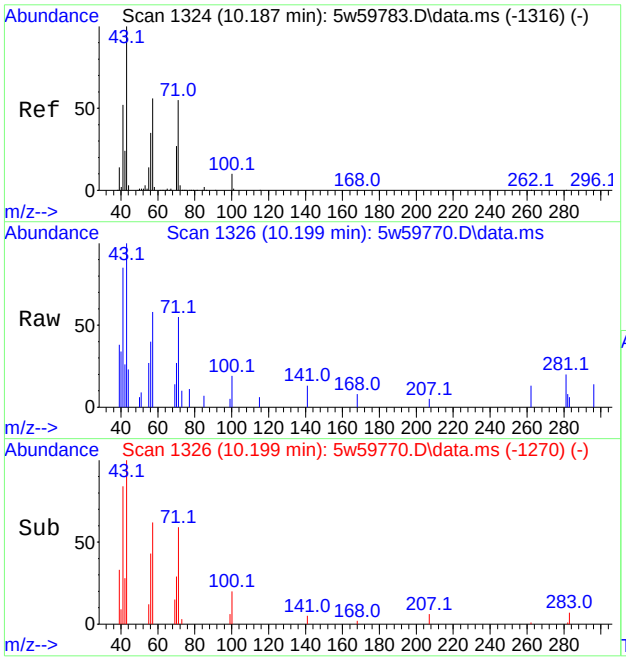


#61
1,4-DIOXANE
Concen: 0.11 PPBV
RT: 10.028 min Scan# 1298
Delta R.T. 0.129 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 88 Resp: 3670

Ion	Ratio	Lower	Upper
88	100		
57	45.3	494.2	554.2#
58	66.2	58.9	118.9
43	49.4	78.3	138.3#

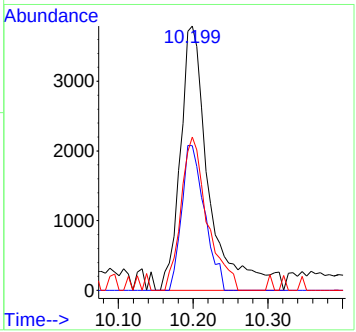


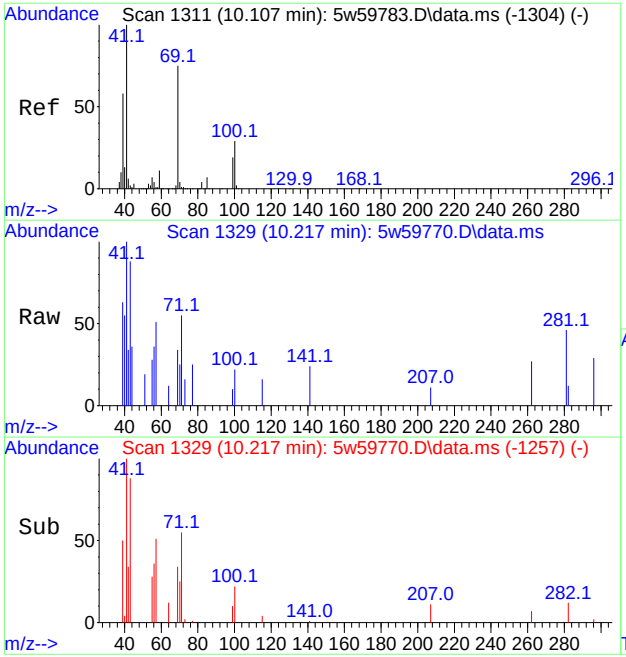


#62
HEPTANE
Concen: 0.13 PPBV
RT: 10.199 min Scan# 1326
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 10112

Ion	Ratio	Lower	Upper
43	100		
71	43.8	24.5	84.5
57	52.9	26.2	86.2

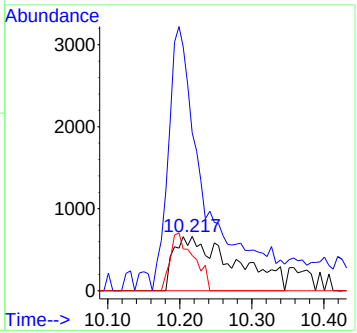


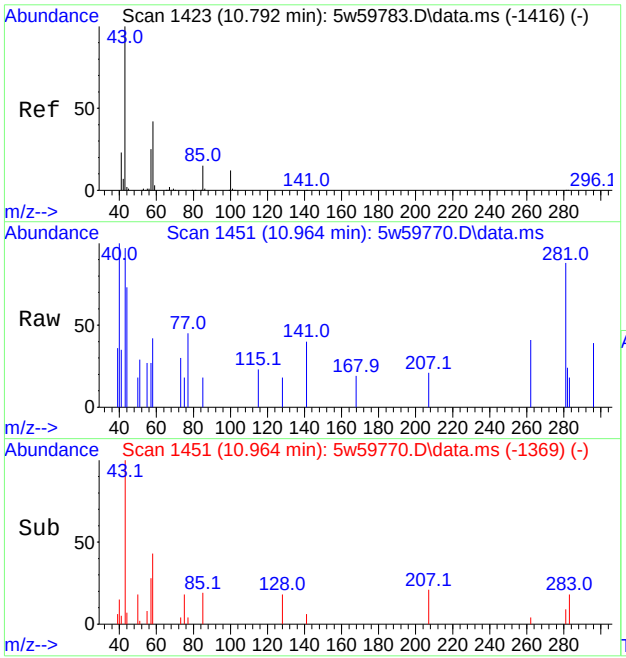


#63
METHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 10.217 min Scan# 1329
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 3857

Ion	Ratio	Lower	Upper
69	100		
41	336.7	95.3	155.3#
100	41.2	6.3	66.3

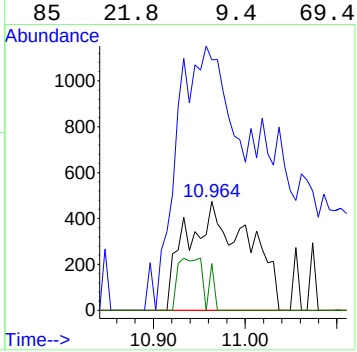


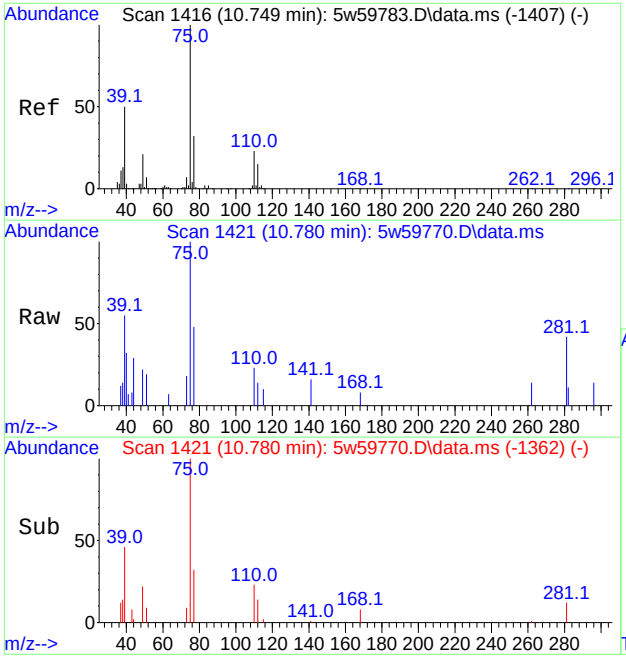


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 10.964 min Scan# 1451
Delta R.T. 0.172 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 2182

Ion	Ratio	Lower	Upper
58	100		
43	381.4	209.2	269.2#
100	0.0	0.0	58.8
85	21.8	9.4	69.4

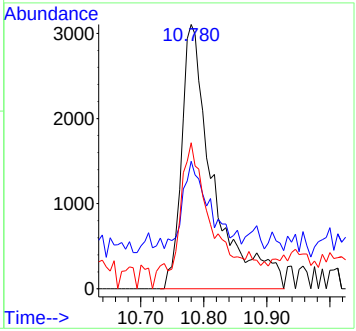


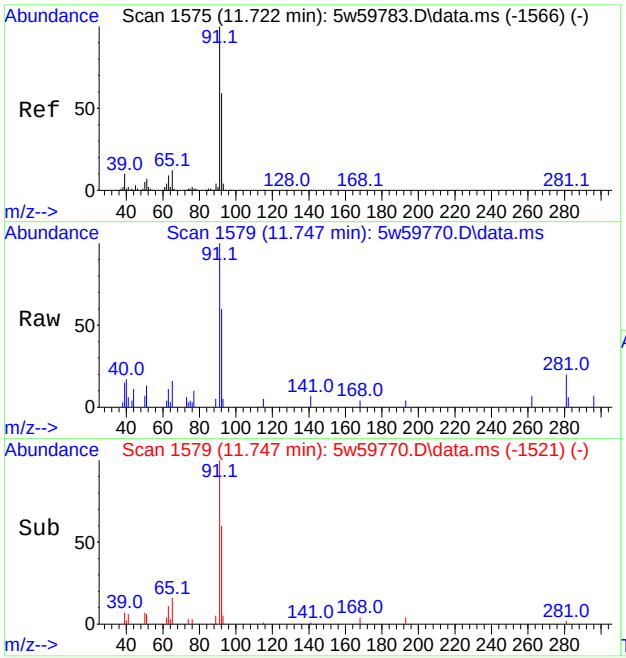


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 10.780 min Scan# 1421
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 10824

Ion	Ratio	Lower	Upper
75	100		
77	30.2	2.2	62.2
39	53.8	34.3	94.3

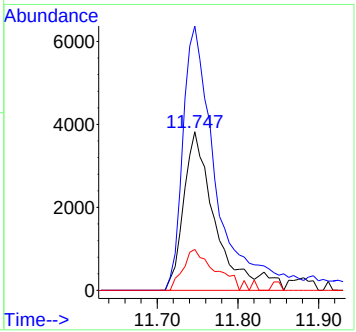


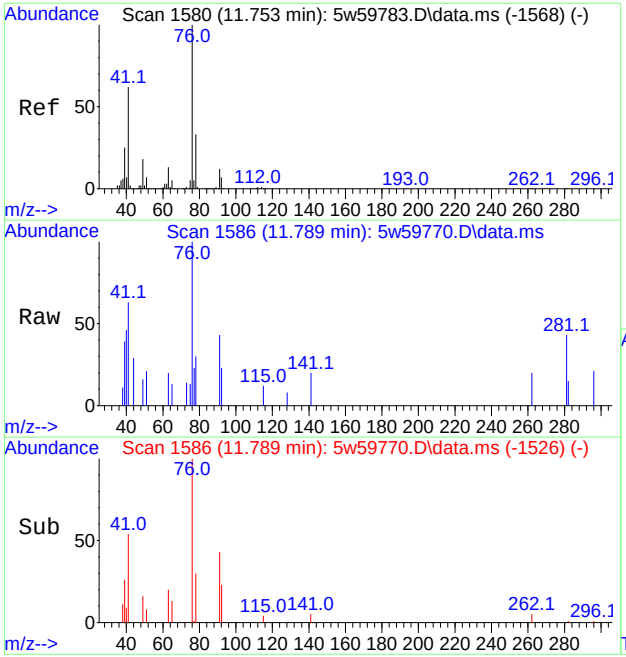


#66
TOLUENE
Concen: 0.10 PPBV
RT: 11.747 min Scan# 1579
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 92 Resp: 10446

Ion	Ratio	Lower	Upper
92	100		
91	184.4	140.1	200.1
65	27.5	0.0	53.1

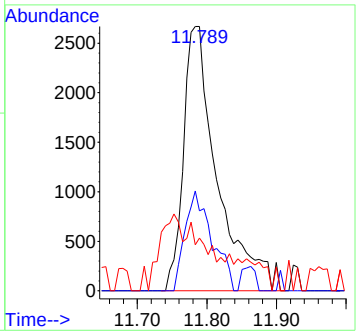


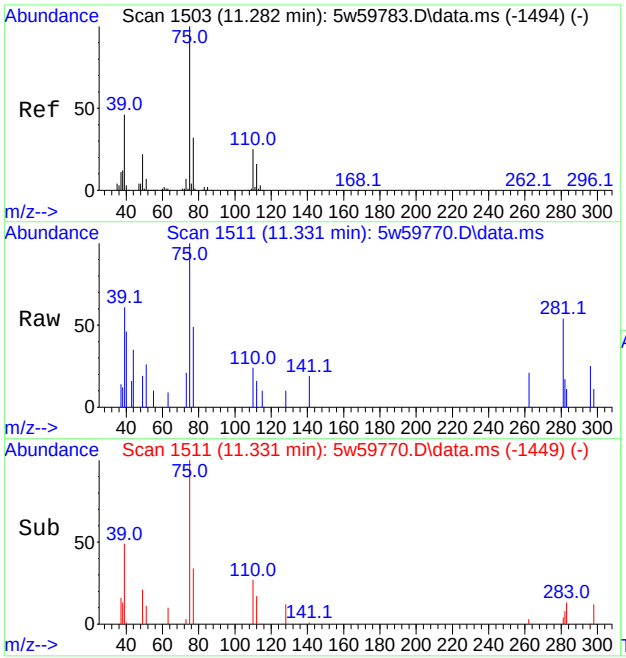


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 11.789 min Scan# 1586
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 9064

Ion	Ratio	Lower	Upper
76	100		
78	30.1	23.2	43.0
63	0.0	7.1	13.1#

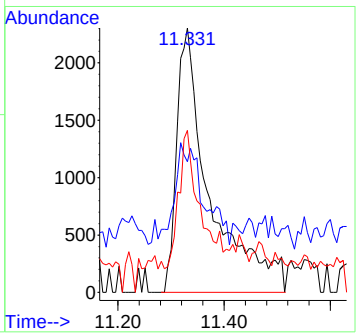


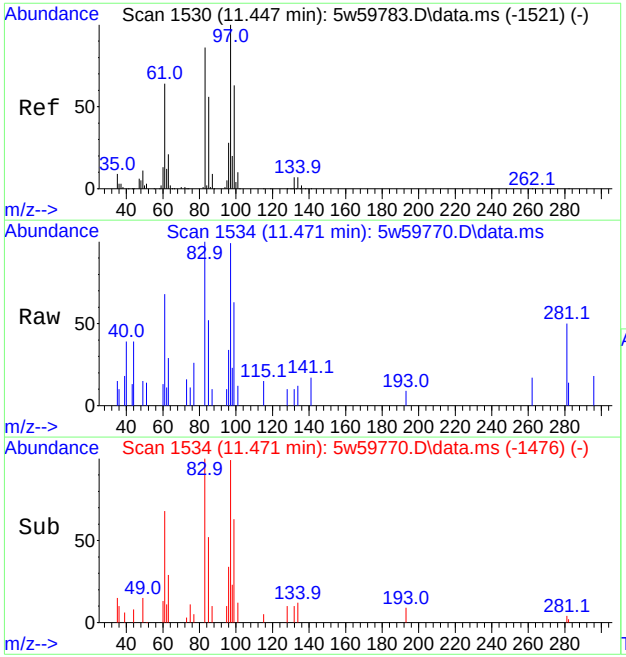


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 11.331 min Scan# 1511
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 9955

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	58.2	16.1	76.1

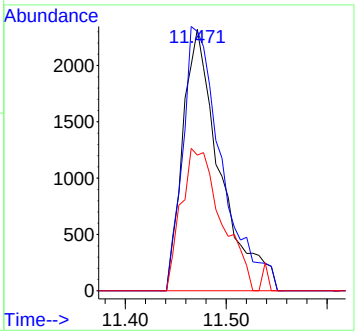


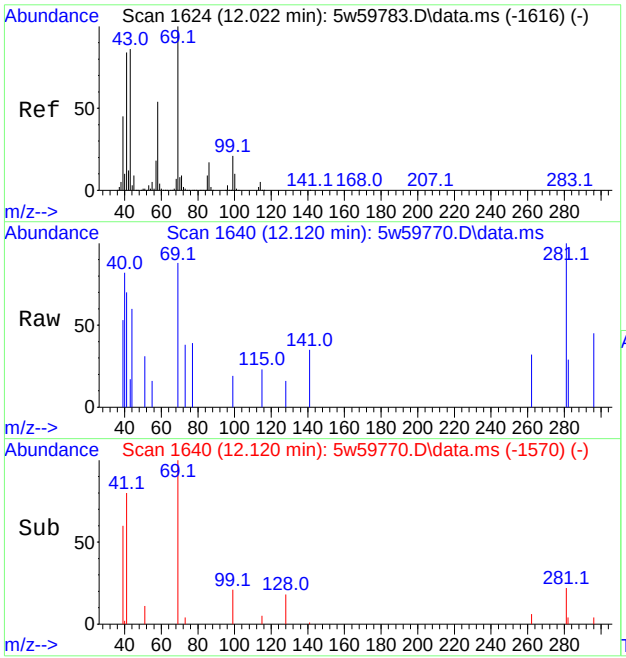


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 11.471 min Scan# 1534
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 5972

Ion	Ratio	Lower	Upper
83	100		
97	105.4	86.3	146.3
85	58.5	35.3	95.3

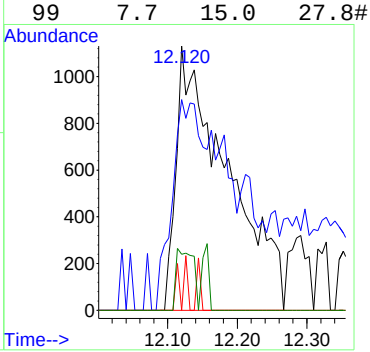


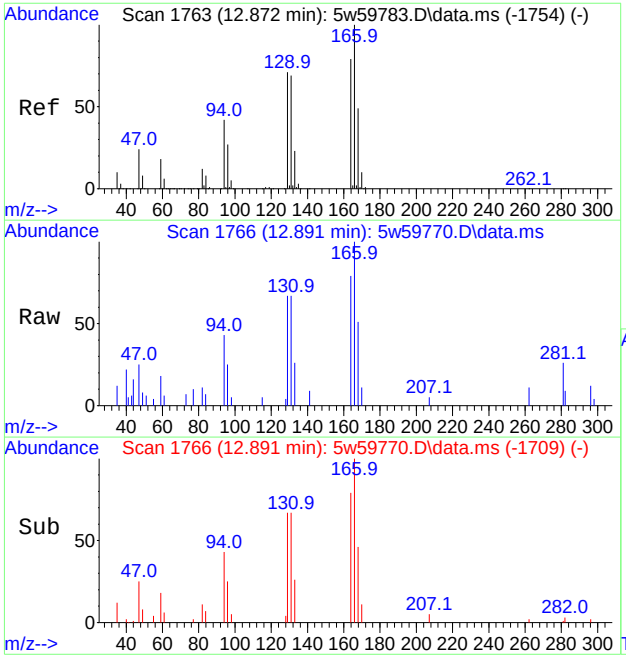


#72
ETHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 12.120 min Scan# 1640
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 5758

Ion	Ratio	Lower	Upper
69	100		
41	125.5	64.0	119.0#
86	0.0	12.0	22.4#
99	7.7	15.0	27.8#

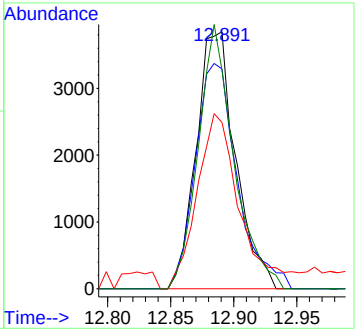


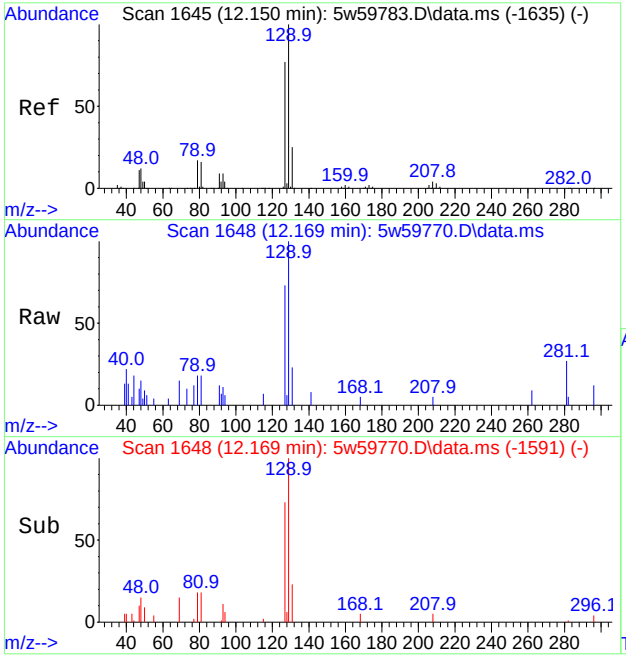


#73
TETRACHLOROETHYLENE
Concen: 0.12 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:164 Resp: 8344

Ion	Ratio	Lower	Upper
164	100		
129	93.5	59.7	119.7
168	81.8	32.2	92.2
131	93.3	57.8	117.8

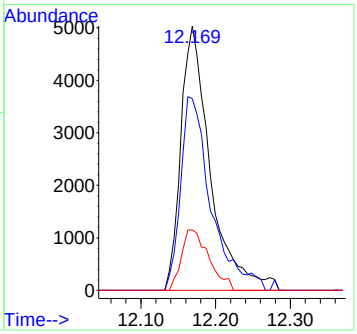


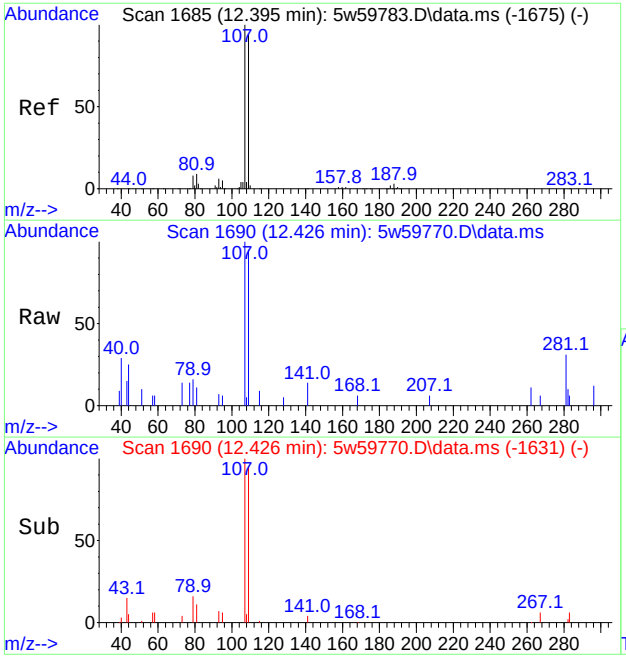


#74
DIBROMOCHLOROMETHANE
Concen: 0.11 PPBV
RT: 12.169 min Scan# 1648
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:129 Resp: 13809

Ion	Ratio	Lower	Upper
129	100		
127	75.3	47.1	107.1
131	21.3	0.0	54.5

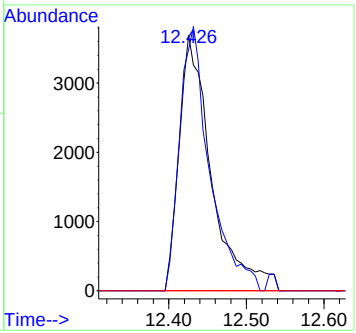


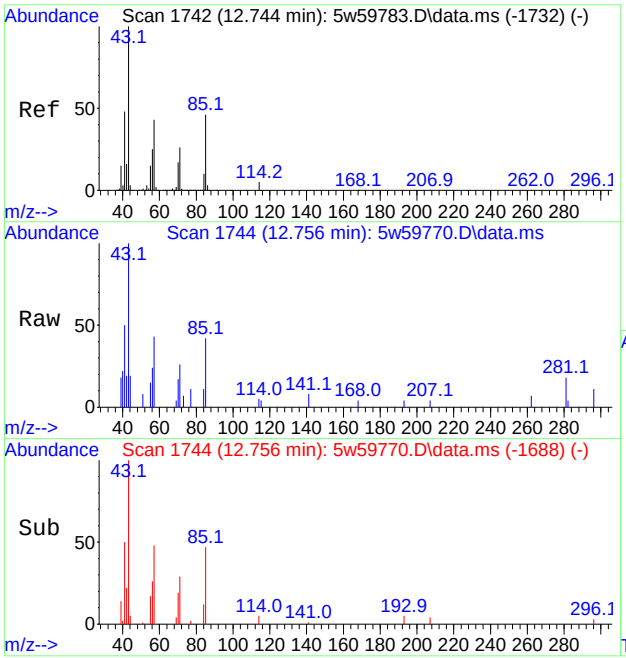


#75
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 12.426 min Scan# 1690
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:107 Resp: 10727

Ion	Ratio	Lower	Upper
107	100		
109	96.3	64.8	124.8
188	0.0	0.0	32.8

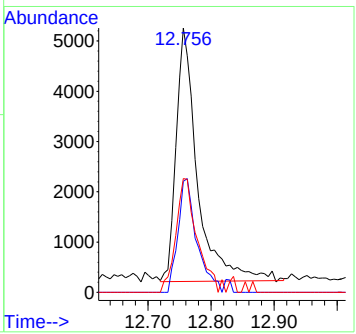


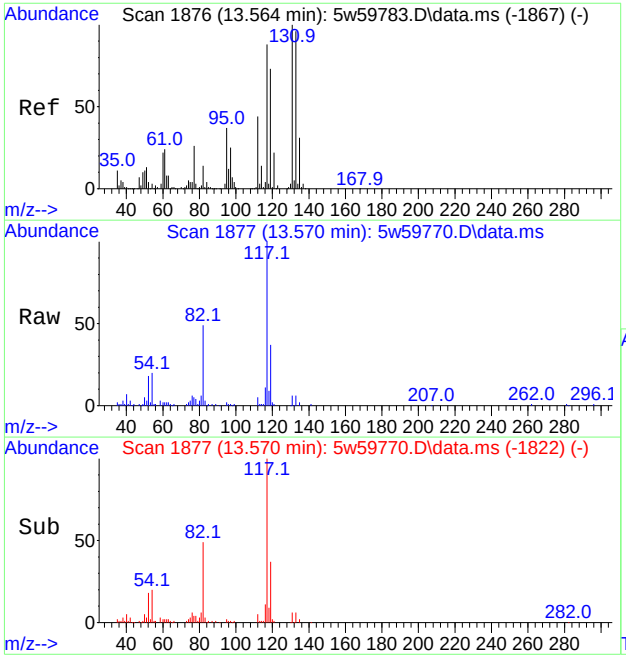


#76
OCTANE
Concen: 0.13 PPBV
RT: 12.756 min Scan# 1744
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 11856

Ion	Ratio	Lower	Upper
43	100		
85	39.5	14.6	74.6
57	45.0	13.7	73.7

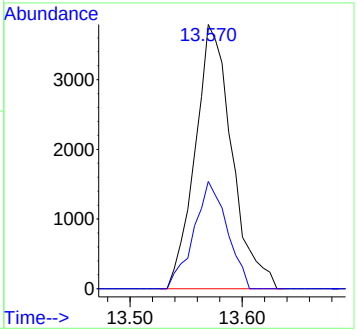


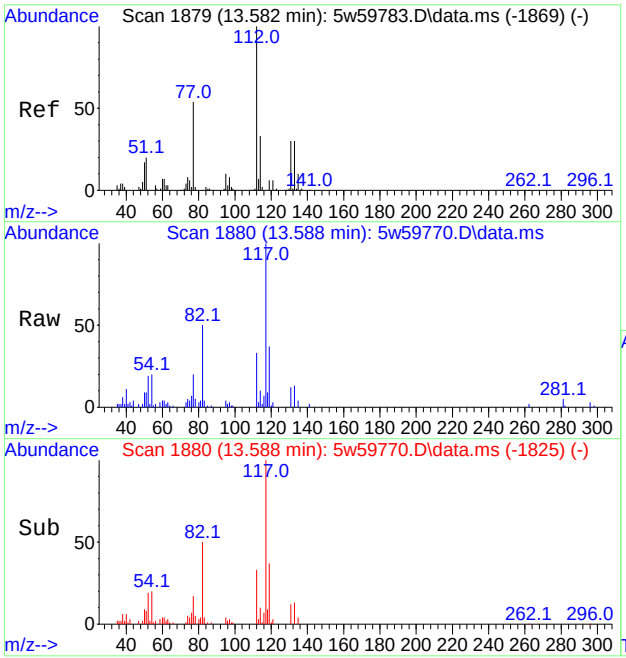


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.11 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:131 Resp: 8635

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

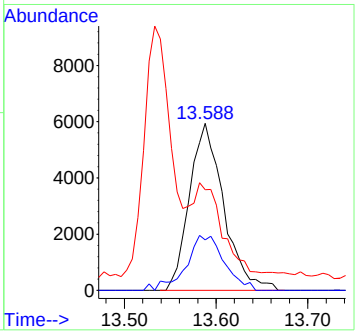


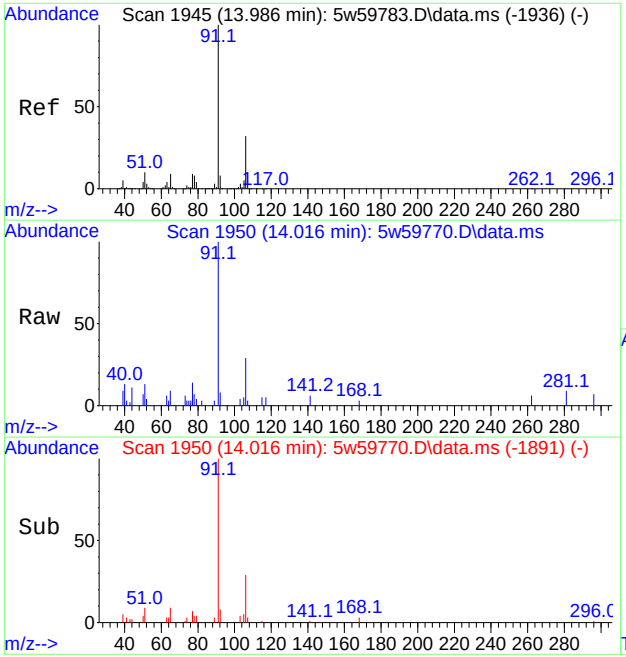


#78
CHLOROBENZENE
Concen: 0.12 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:112 Resp: 15456

Ion	Ratio	Lower	Upper
112	100		
114	36.4	2.6	62.6
77	0.0	25.4	85.4#

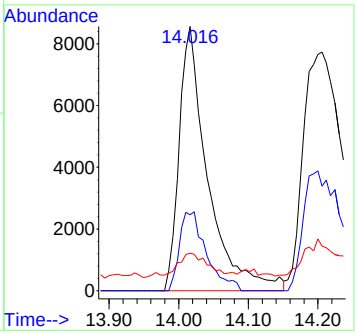


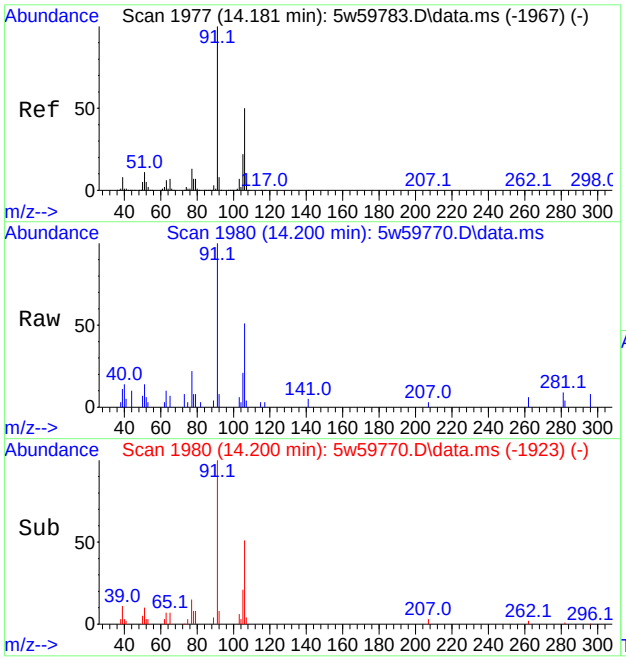


#79
ETHYLBENZENE
Concen: 0.12 PPBV
RT: 14.016 min Scan# 1950
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 24398

Ion	Ratio	Lower	Upper
91	100		
106	28.2	1.3	61.3
77	8.1	0.0	38.6

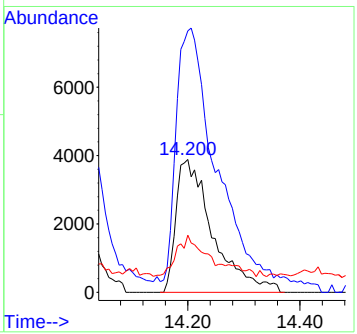


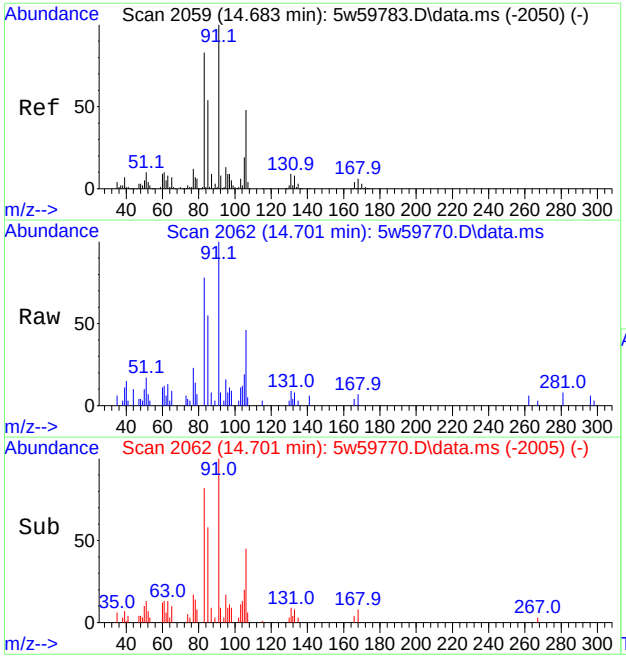


#80
m,p-XYLENE
Concen: 0.22 PPBV
RT: 14.200 min Scan# 1980
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 17695

Ion	Ratio	Lower	Upper
106	100		
91	196.6	171.0	231.0
77	43.1	0.0	56.7

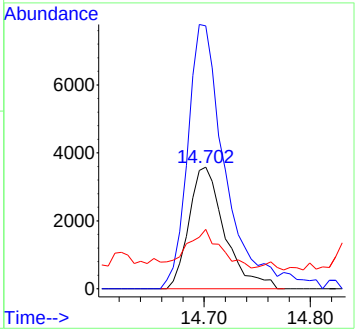


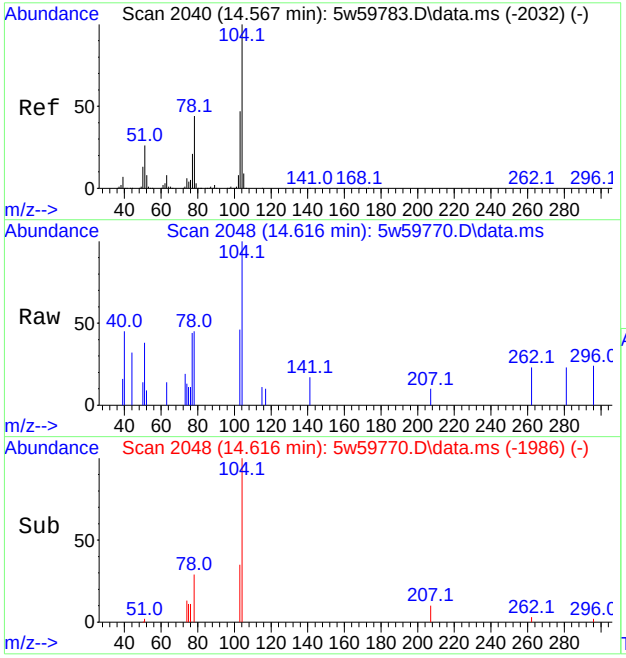


#81
o-XYLENE
Concen: 0.11 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 8363

Ion	Ratio	Lower	Upper
106	100		
91	232.2	181.6	241.6
77	28.4	0.0	56.6

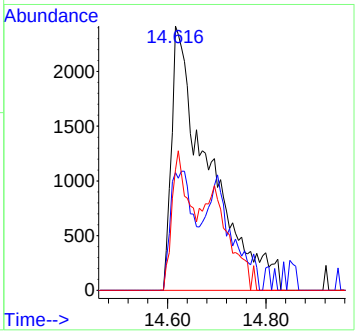


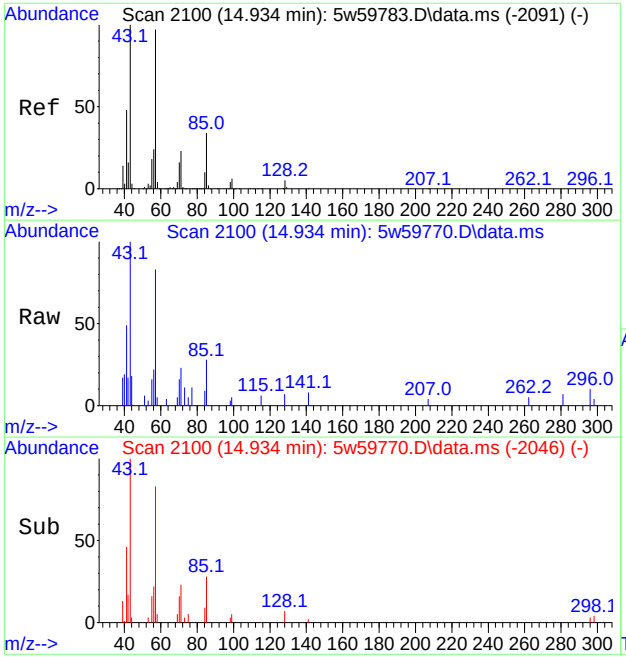


#82
STYRENE
Concen: 0.11 PPBV
RT: 14.616 min Scan# 2048
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:104 Resp: 12755

Ion	Ratio	Lower	Upper
104	100		
78	58.0	13.3	73.3
103	54.2	17.2	77.2

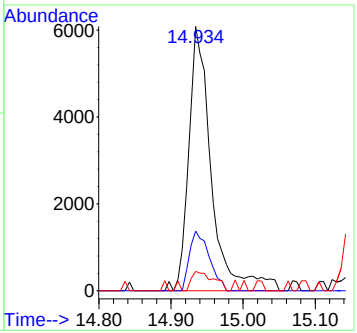


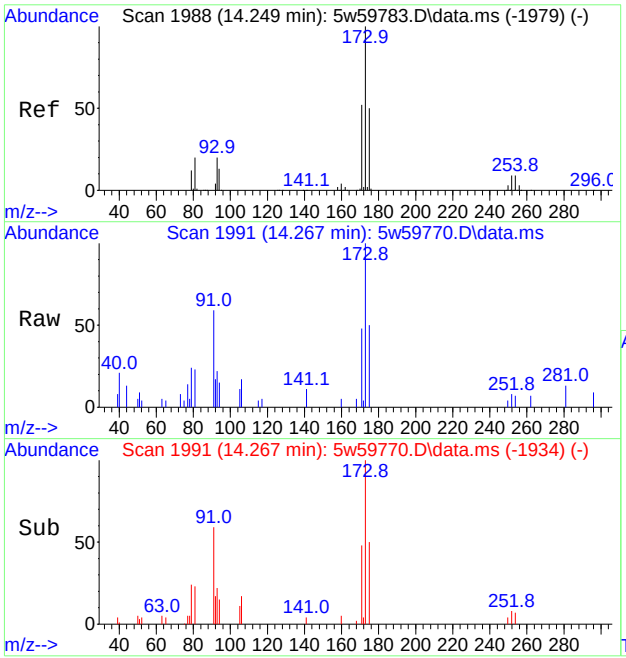


#83
NONANE
Concen: 0.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 13253

Ion	Ratio	Lower	Upper
43	100		
71	19.7	0.0	52.7
128	7.1	0.0	34.7

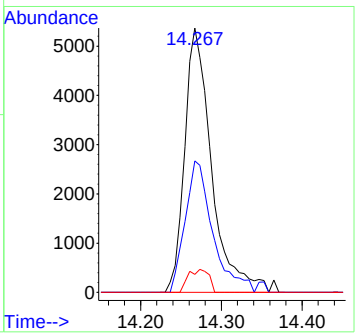


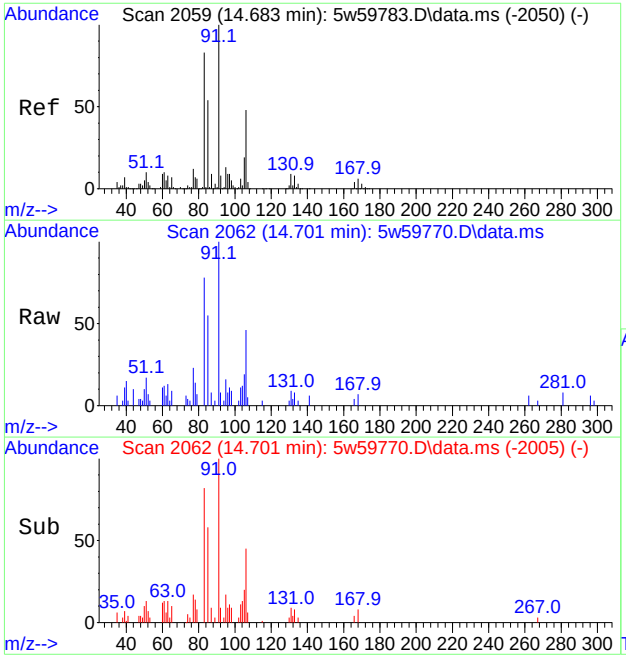


#84
BROMOFORM
Concen: 0.10 PPBV
RT: 14.267 min Scan# 1991
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:173 Resp: 12500

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	6.7	0.0	39.0

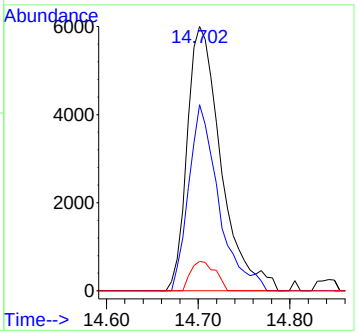


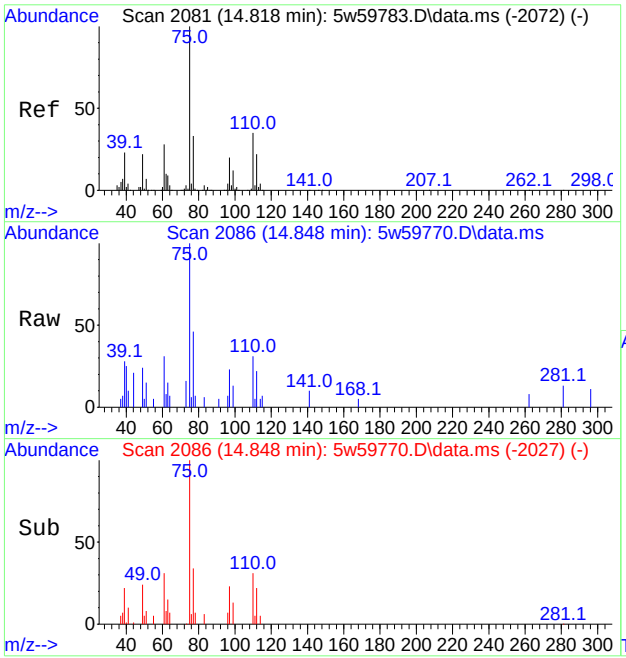


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.12 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 15380

Ion	Ratio	Lower	Upper
83	100		
85	62.5	35.2	95.2
131	8.1	0.0	40.3

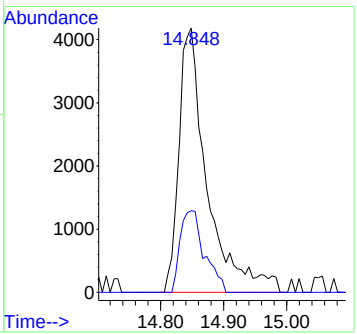


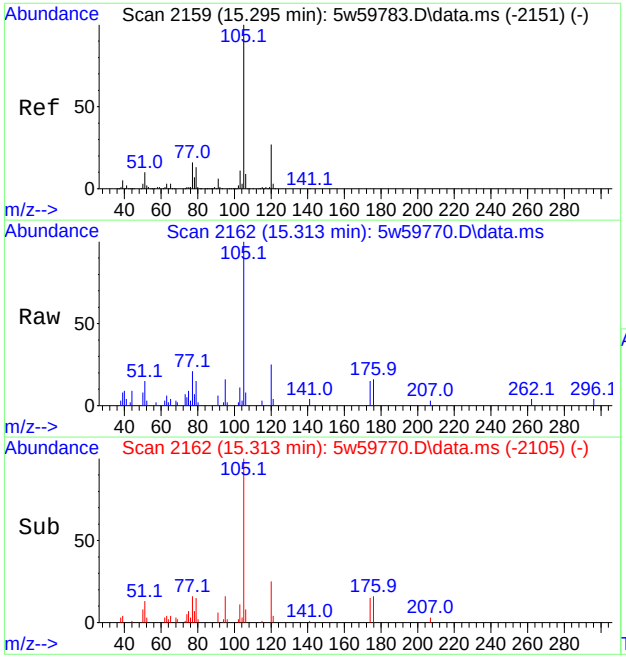


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.13 PPBV
RT: 14.848 min Scan# 2086
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 13012

Ion	Ratio	Lower	Upper
75	100		
110	26.6	4.4	64.4

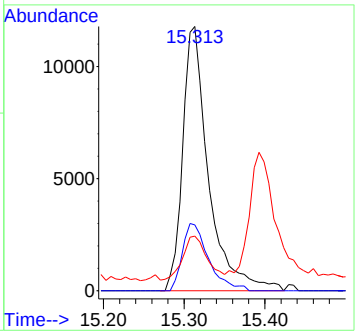


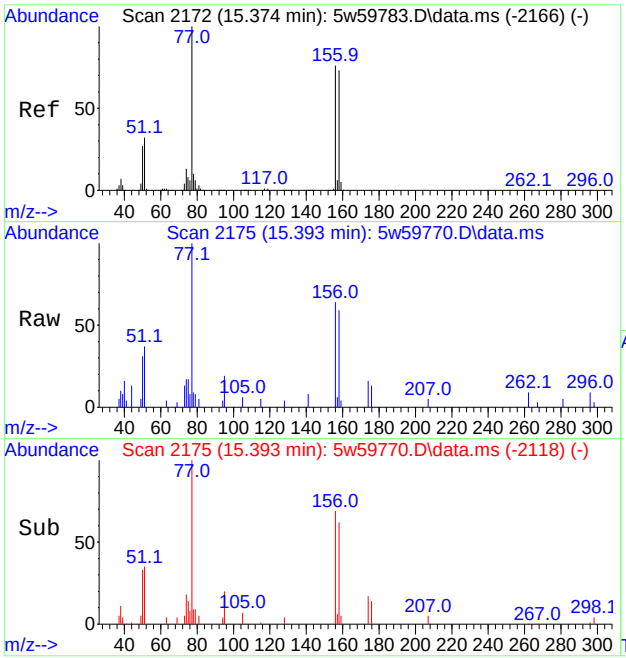


#88
ISOPROPYLBENZENE
Concen: 0.12 PPBV
RT: 15.313 min Scan# 2162
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 26261

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	17.6	0.0	45.6

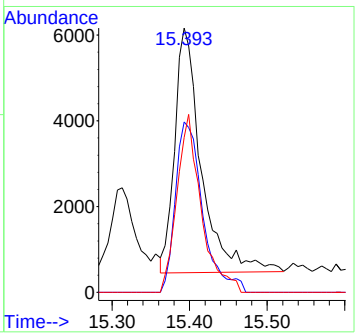


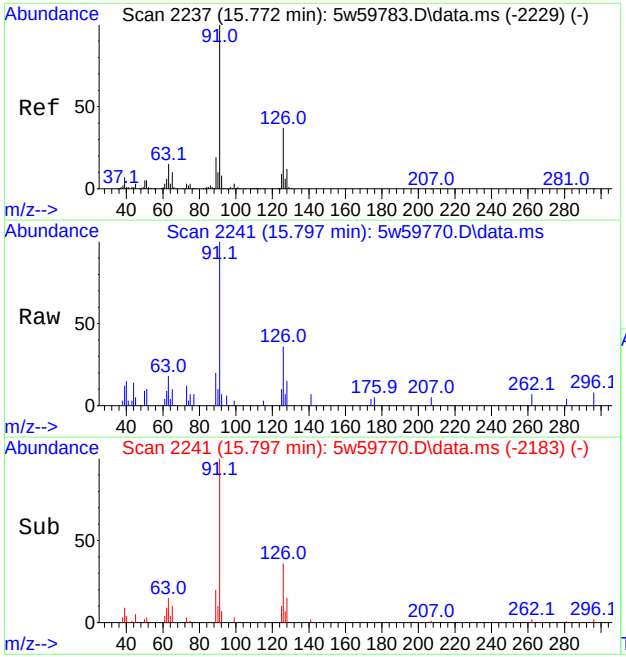


#89
BROMOBENZENE
Concen: 0.12 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 77 Resp: 13681

Ion	Ratio	Lower	Upper
77	100		
156	71.4	54.9	101.9
158	66.2	53.5	99.3

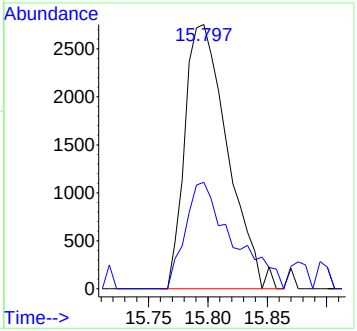


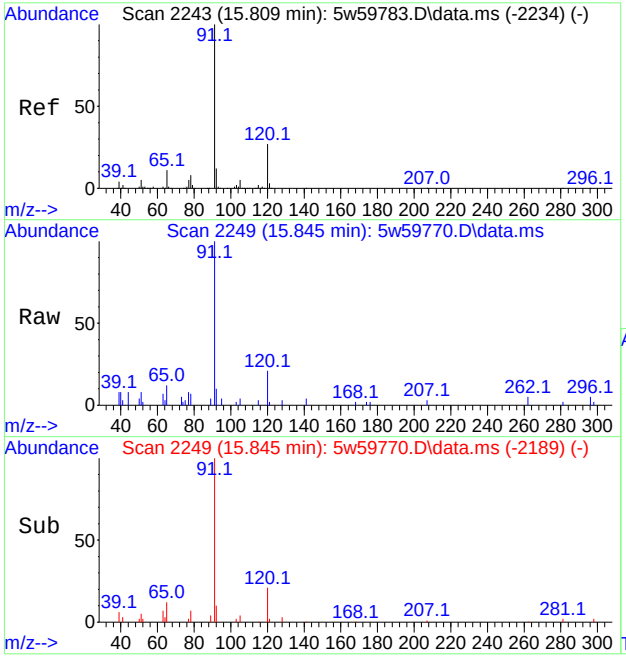


#90
2-CHLOROTOLUENE
Concen: 0.11 PPBV
RT: 15.797 min Scan# 2241
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:126 Resp: 6870

Ion	Ratio	Lower	Upper
126	100		
128	44.7	2.7	62.7

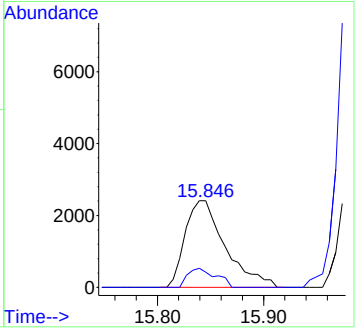


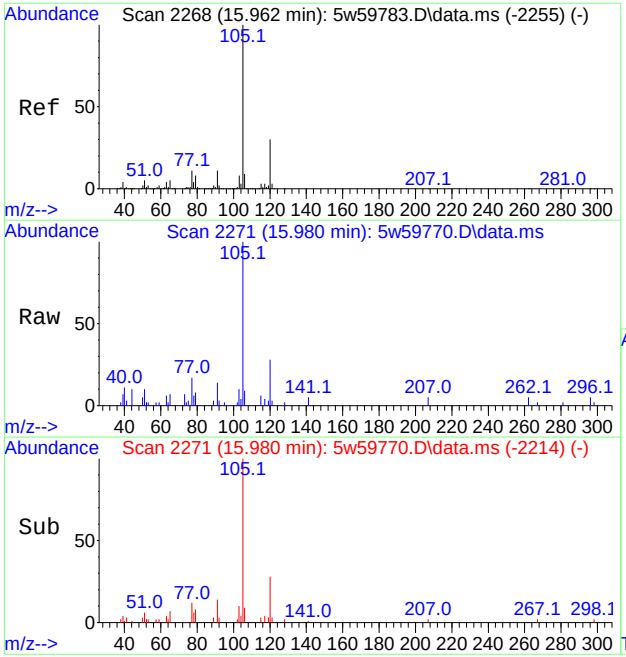


#91
n-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.845 min Scan# 2249
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:120 Resp: 6334

Ion	Ratio	Lower	Upper
120	100		
105	15.4	0.0	47.0

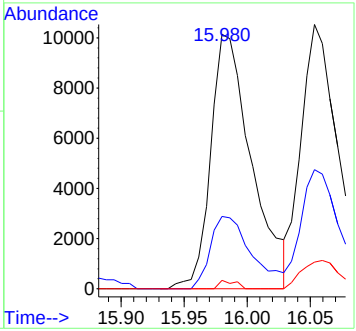


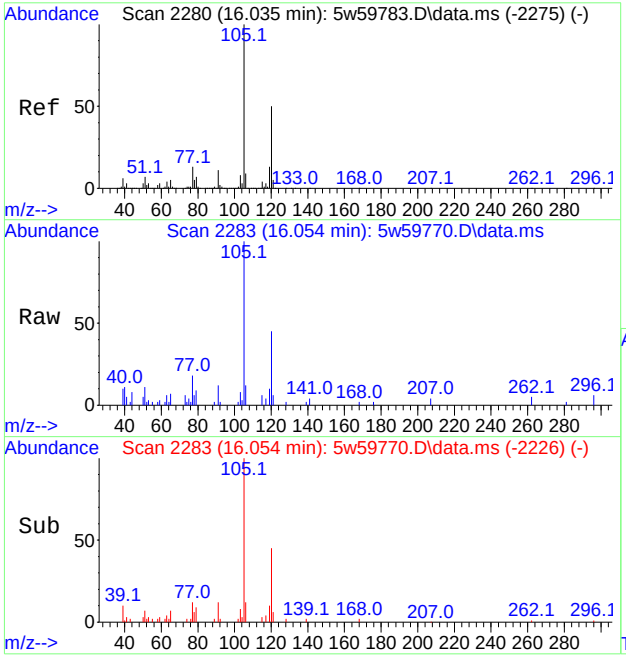


#92
4-ETHYLTOLUENE
Concen: 0.11 PPBV
RT: 15.980 min Scan# 2271
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 22792

Ion	Ratio	Lower	Upper
105	100		
120	29.0	0.0	59.9
119	1.3	0.0	32.3

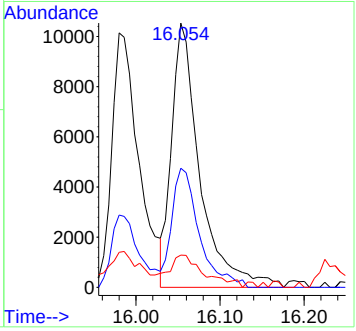


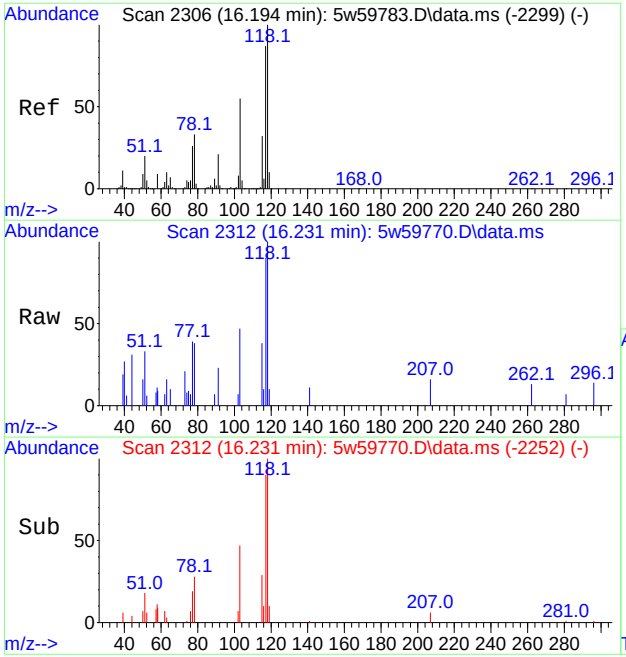


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.13 PPBV
RT: 16.054 min Scan# 2283
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 24501

Ion	Ratio	Lower	Upper
105	100		
120	43.9	19.4	79.4
91	14.7	0.0	40.8

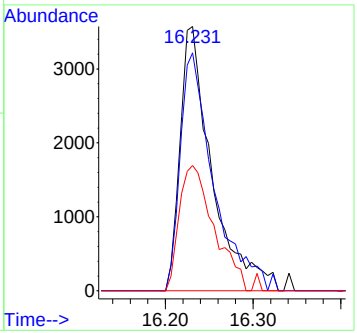


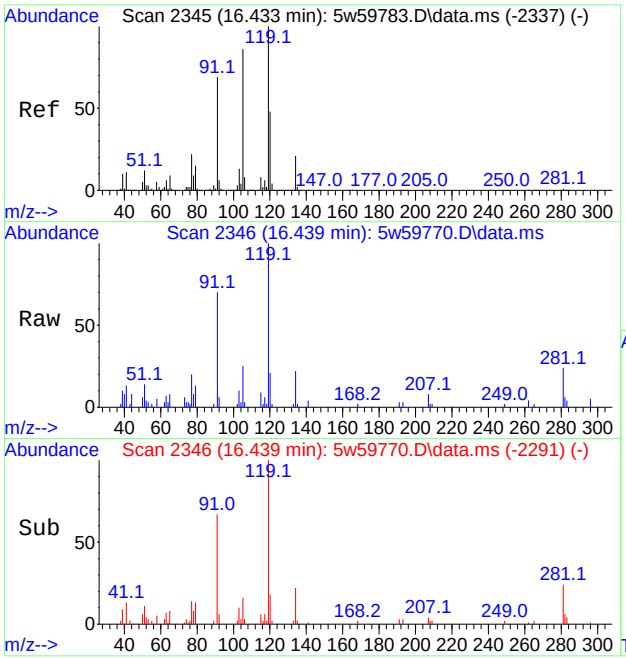


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.231 min Scan# 2312
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:118 Resp: 9018

Ion	Ratio	Lower	Upper
118	100		
117	94.5	60.9	113.1
103	51.7	38.6	71.8

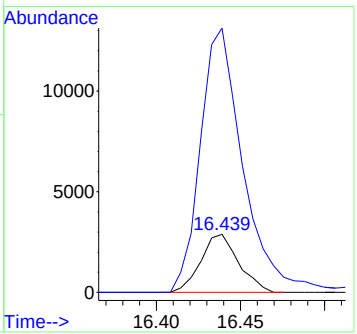


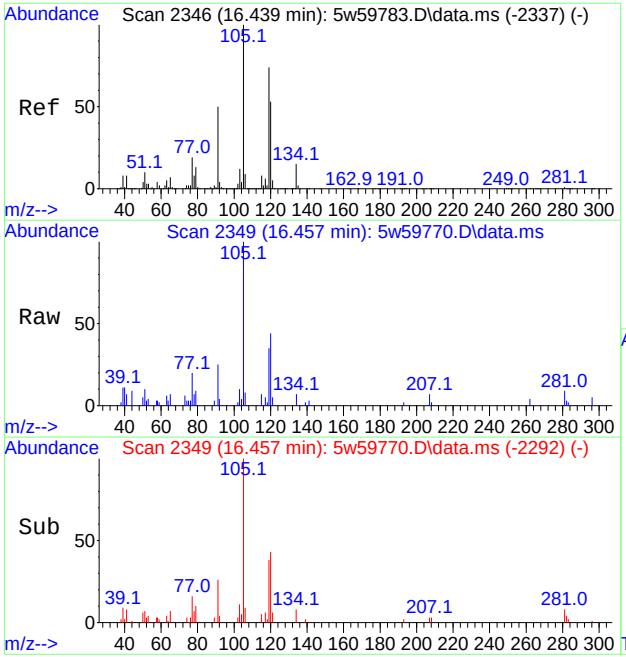


#95
tert-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 4502

Ion	Ratio	Lower	Upper
134	100		
119	518.7	459.3	519.3

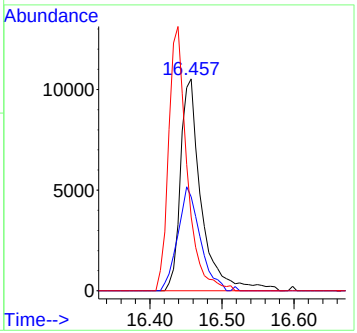


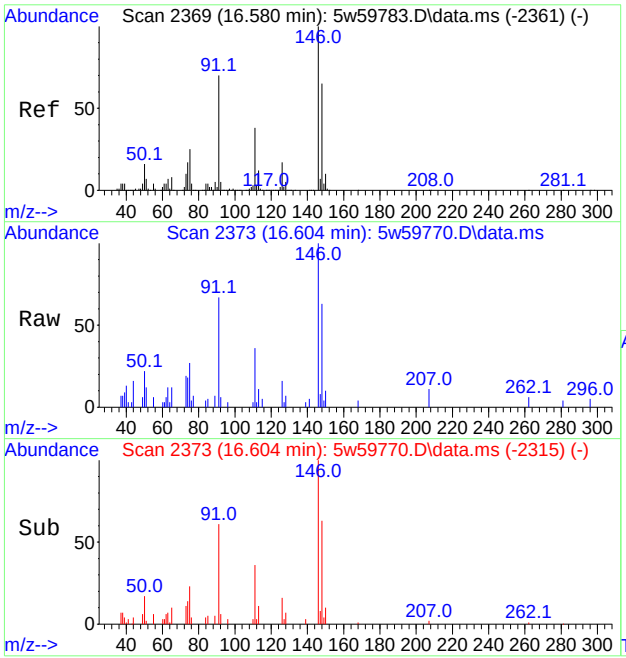


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.457 min Scan# 2349
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 21144

Ion	Ratio	Lower	Upper
105	100		
120	52.5	25.7	85.7
119	110.4	75.7	135.7

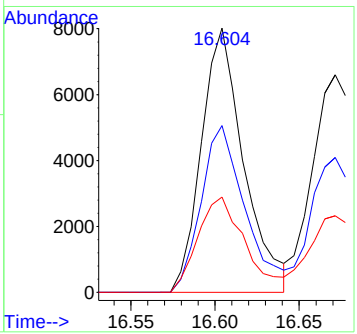


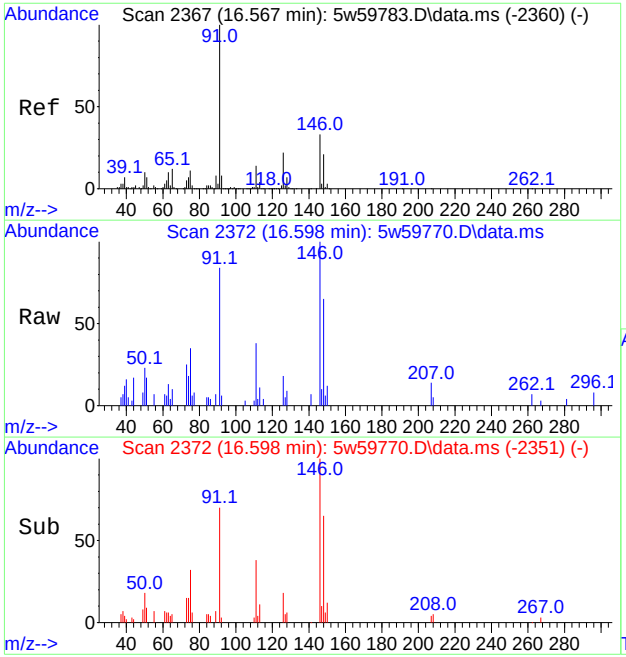


#97
m-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.604 min Scan# 2373
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 14099

Ion	Ratio	Lower	Upper
146	100		
148	65.5	34.8	94.8
111	40.2	8.2	68.2

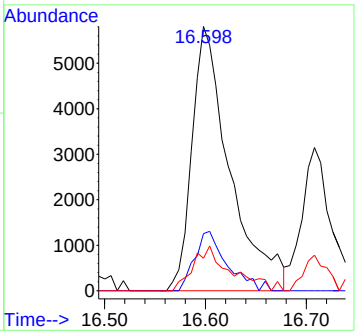


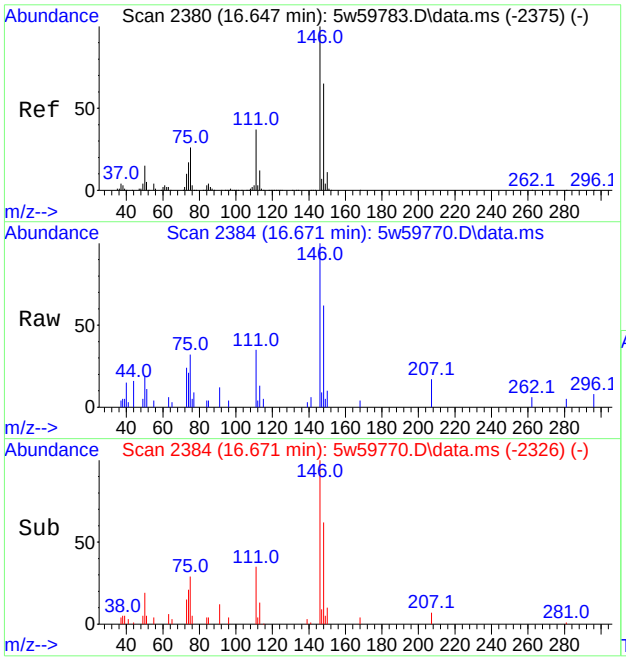


#98
BENZYL CHLORIDE
Concen: 0.09 PPBV
RT: 16.598 min Scan# 2372
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 15140

Ion	Ratio	Lower	Upper
91	100		
126	19.2	0.0	51.7
65	16.9	0.0	42.2

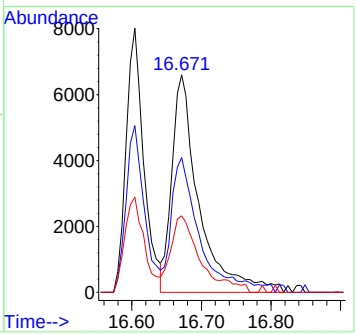


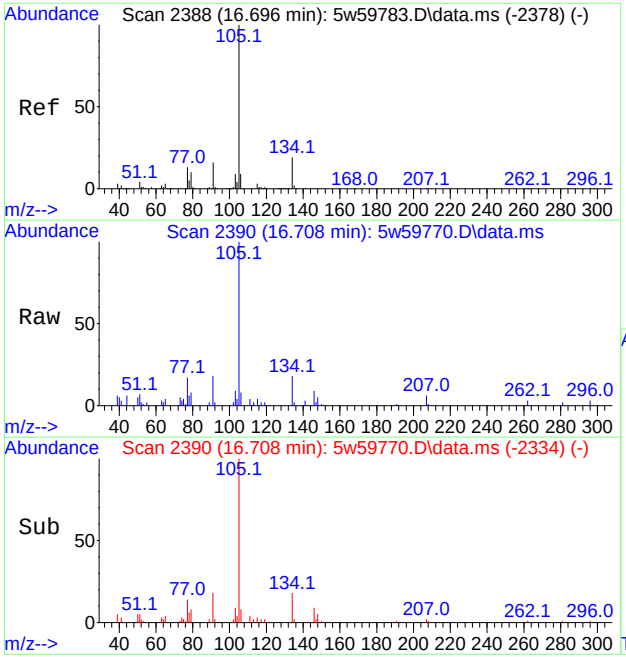


#99
p-DICHLOROBENZENE
Concen: 0.12 PPBV
RT: 16.671 min Scan# 2384
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 17844

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	38.4	6.7	66.7

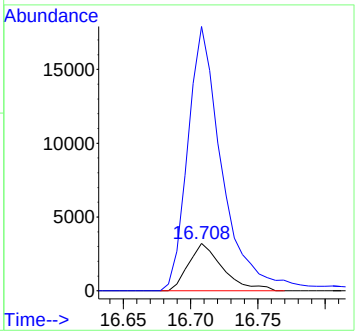


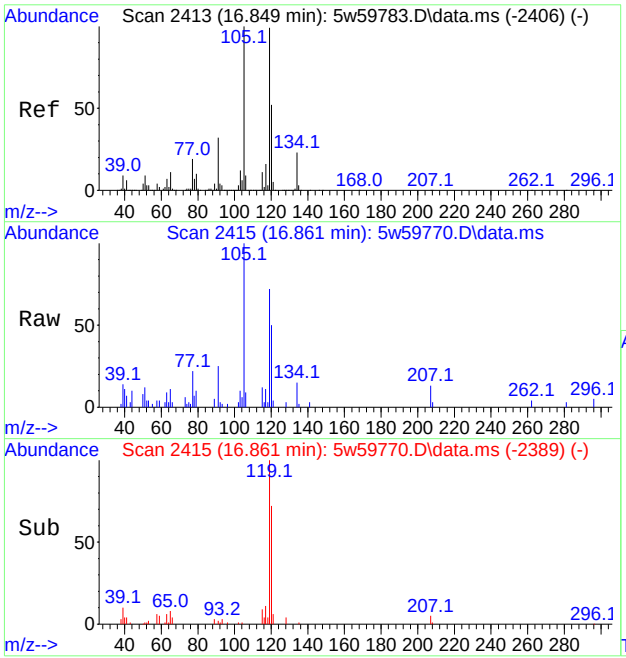


#100
sec-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.708 min Scan# 2390
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5680

Ion	Ratio	Lower	Upper
134	100		
105	572.9	502.5	562.5#

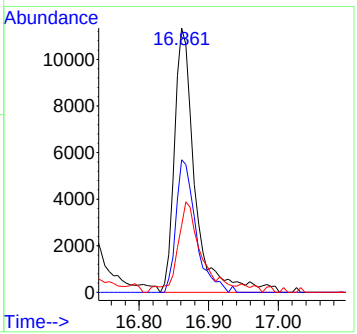


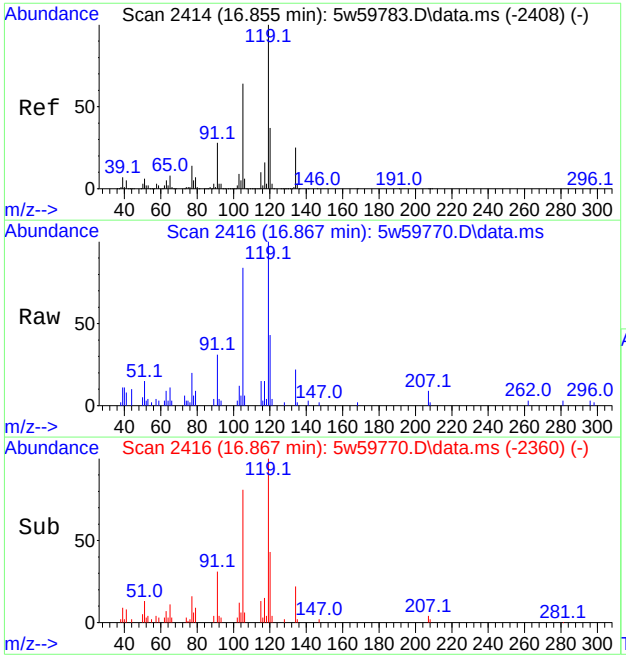


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 23306

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.5	83.5
91	41.1	7.4	67.4

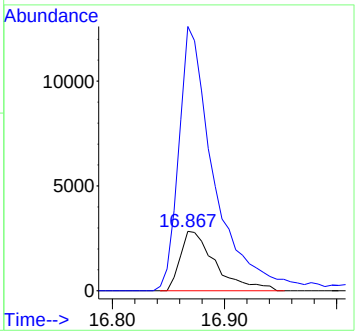


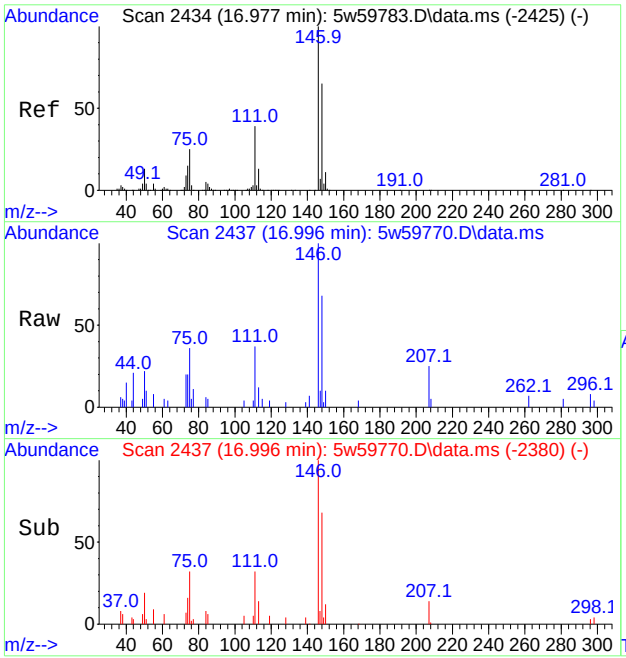


#102
p-ISOPROPYLTOLUENE
Concen: 0.11 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 6197

Ion	Ratio	Lower	Upper
134	100		
119	456.3	377.7	437.7#

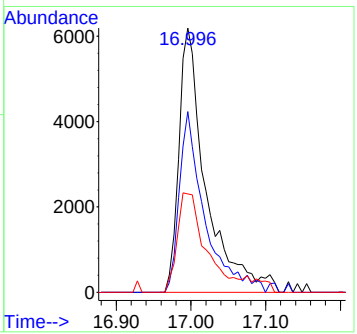


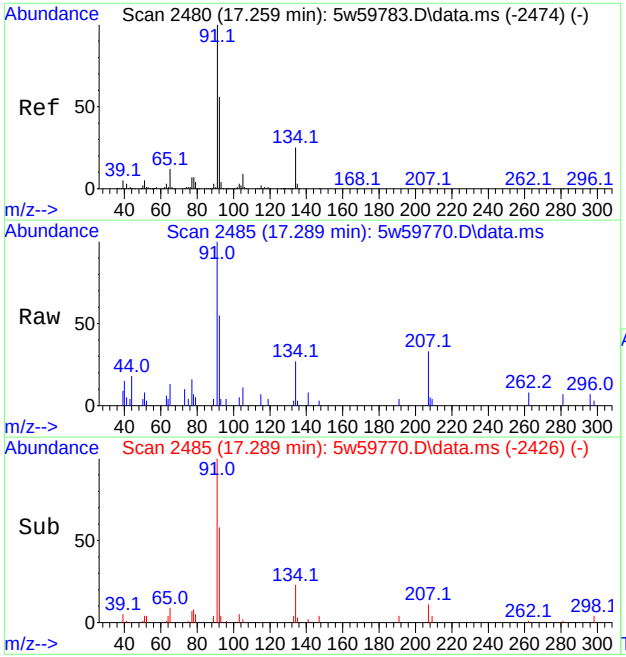


#103
o-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.996 min Scan# 2437
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 15528

Ion	Ratio	Lower	Upper
146	100		
148	64.1	34.3	94.3
111	44.3	9.2	69.2

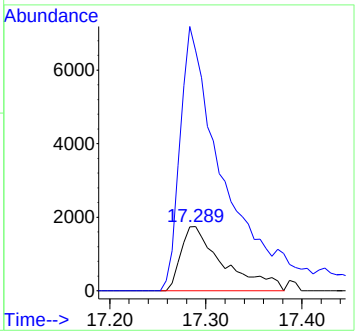


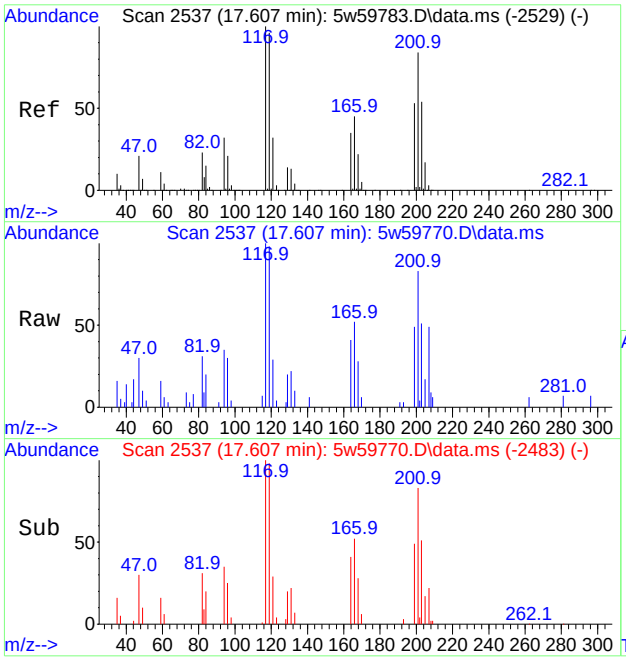


#104
n-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.289 min Scan# 2485
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5383

Ion	Ratio	Lower	Upper
134	100		
91	477.2	363.1	423.1#

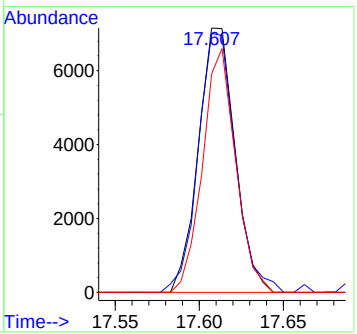


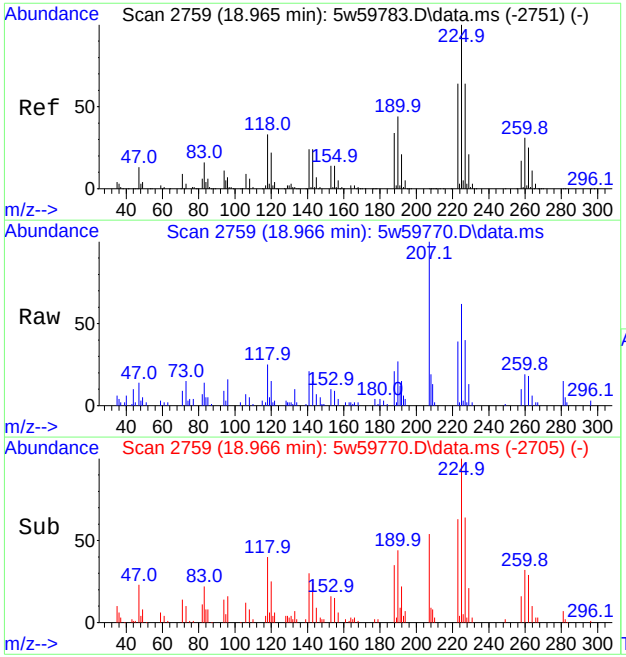


#105
HEXACHLOROETHANE
Concen: 0.11 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 10817

Ion	Ratio	Lower	Upper
117	100		
119	99.7	67.2	124.8
201	83.6	61.1	113.5

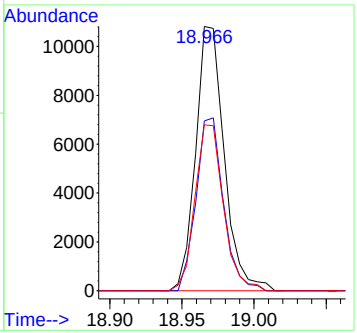


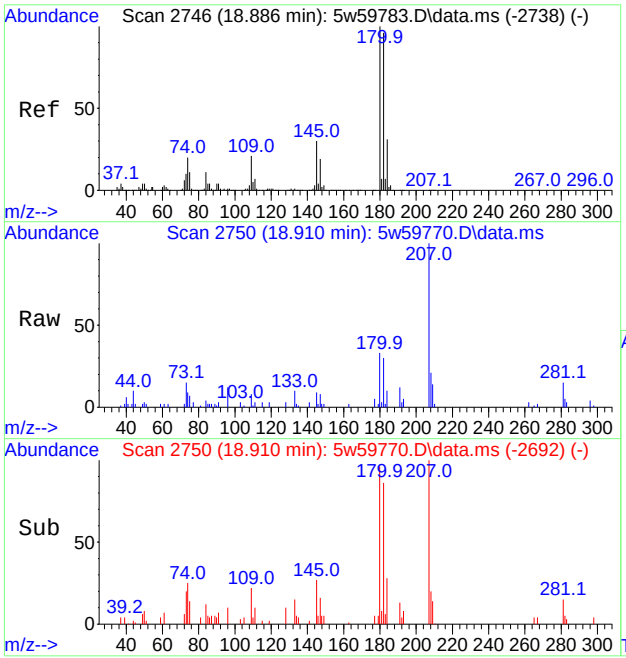


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:225 Resp: 14991

Ion	Ratio	Lower	Upper
225	100		
227	62.5	34.2	94.2
223	62.2	33.3	93.3

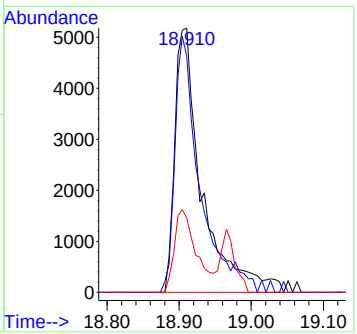


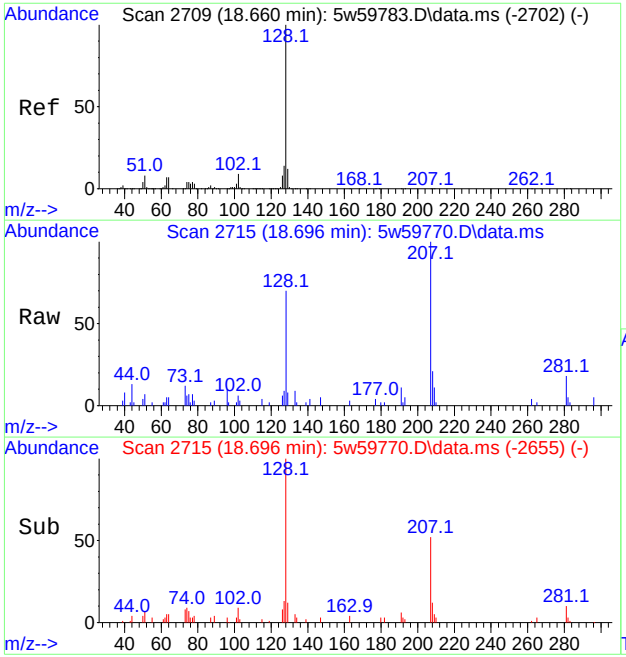


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.10 PPBV
RT: 18.910 min Scan# 2750
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:180 Resp: 13603

Ion	Ratio	Lower	Upper
180	100		
182	88.7	65.4	125.4
145	25.3	0.0	59.4

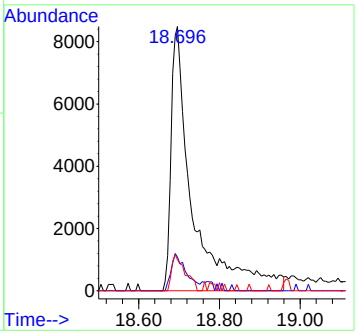


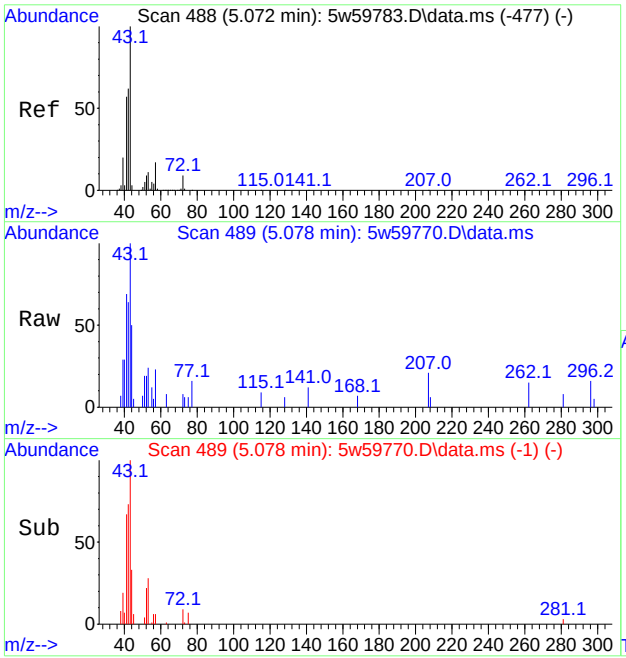


#108
NAPHTHALENE
Concen: 0.11 PPBV
RT: 18.696 min Scan# 2715
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:128 Resp: 31596

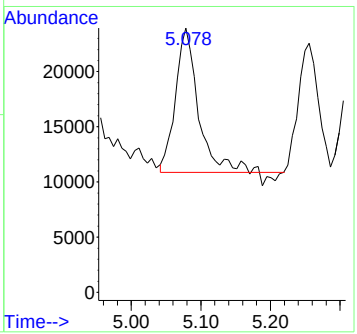
Ion	Ratio	Lower	Upper
128	100		
127	11.5	0.0	43.3
129	8.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.10 PPBV
RT: 5.078 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:TIC Resp: 29029



Manual Integration Approval Summary

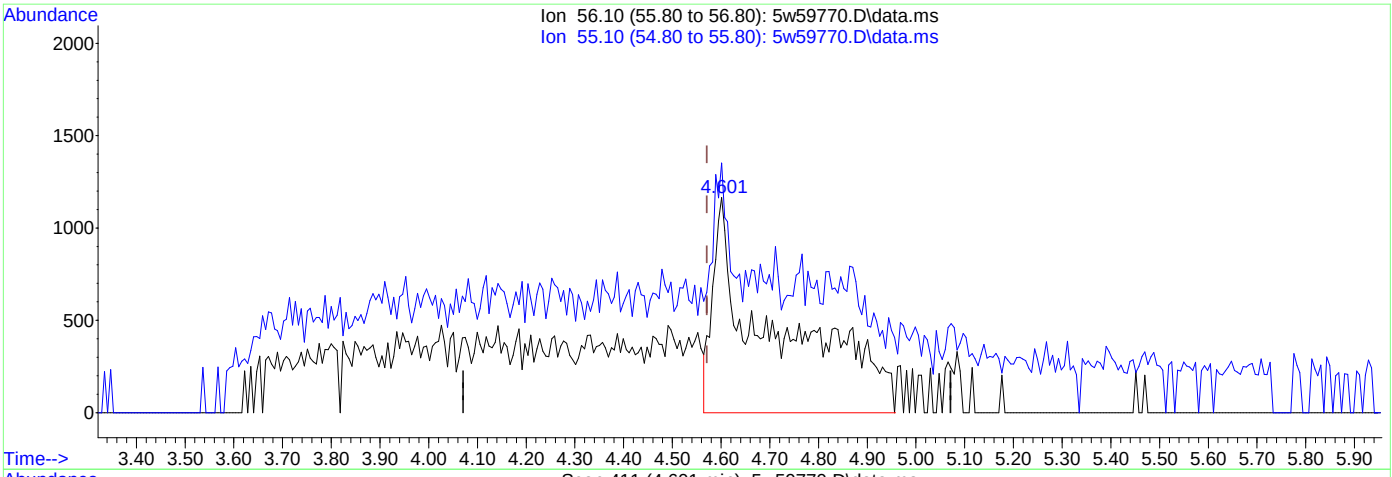
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59770.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:11 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

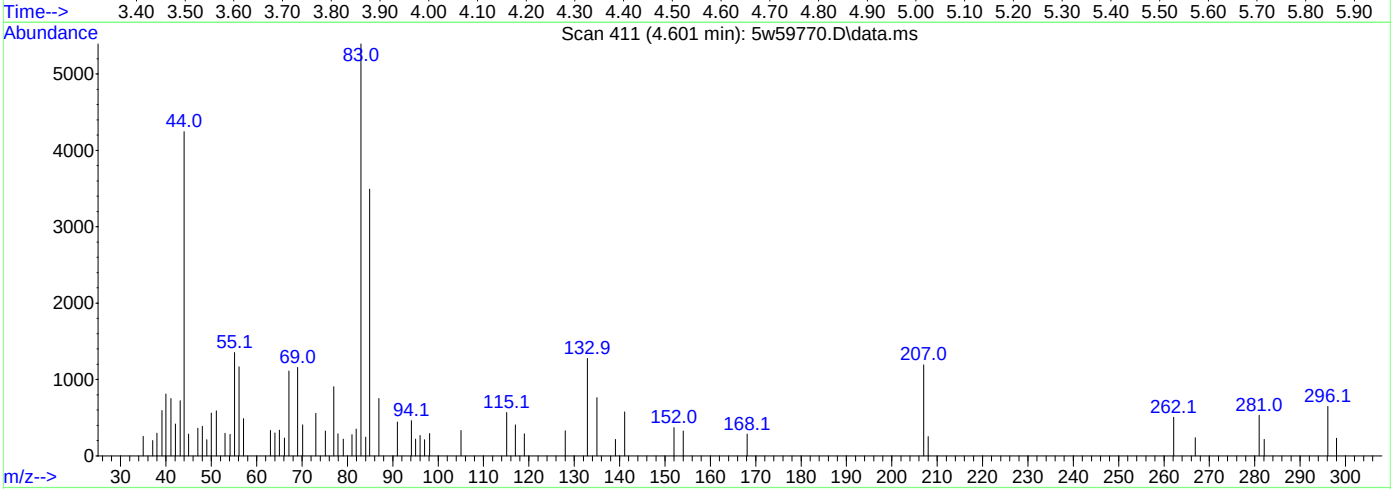
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		4.52	Poor instrument integration
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl ethyl ketone	78-93-3		6.92	Poor instrument integration
Methyl Acrylate	96-33-3		7.51	Missed peak
Ethyl Acetate	141-78-6		7.54	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.70PPBV

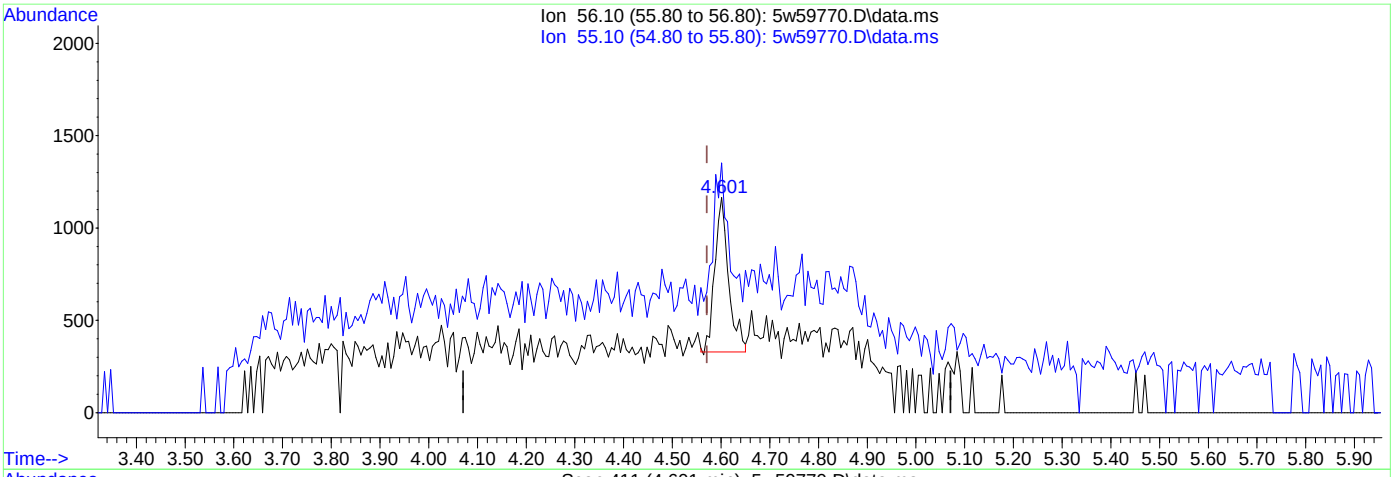
response 10153

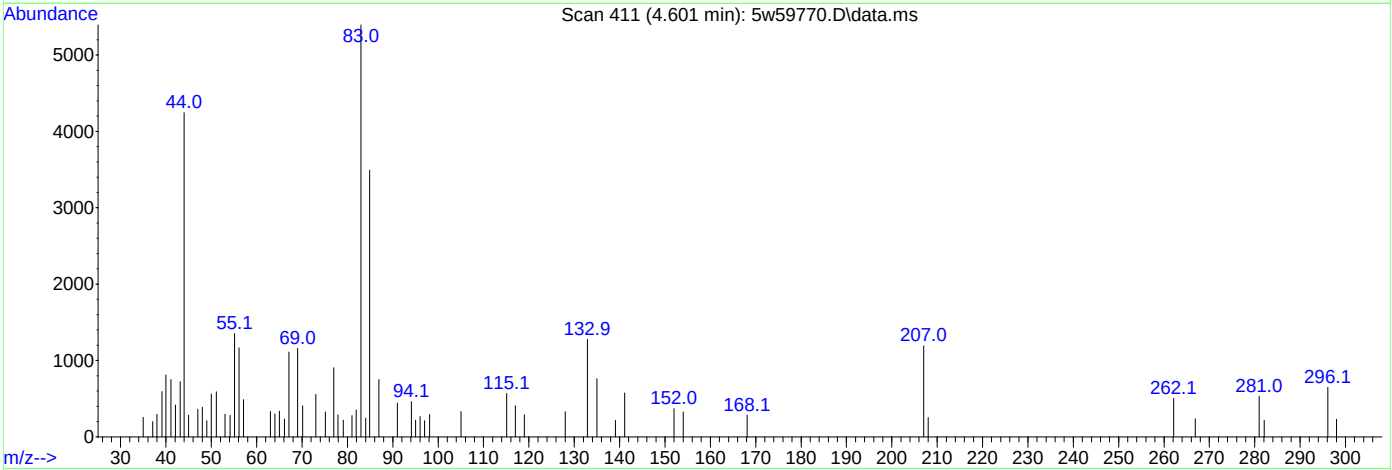
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	17.21#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.11PPBV m

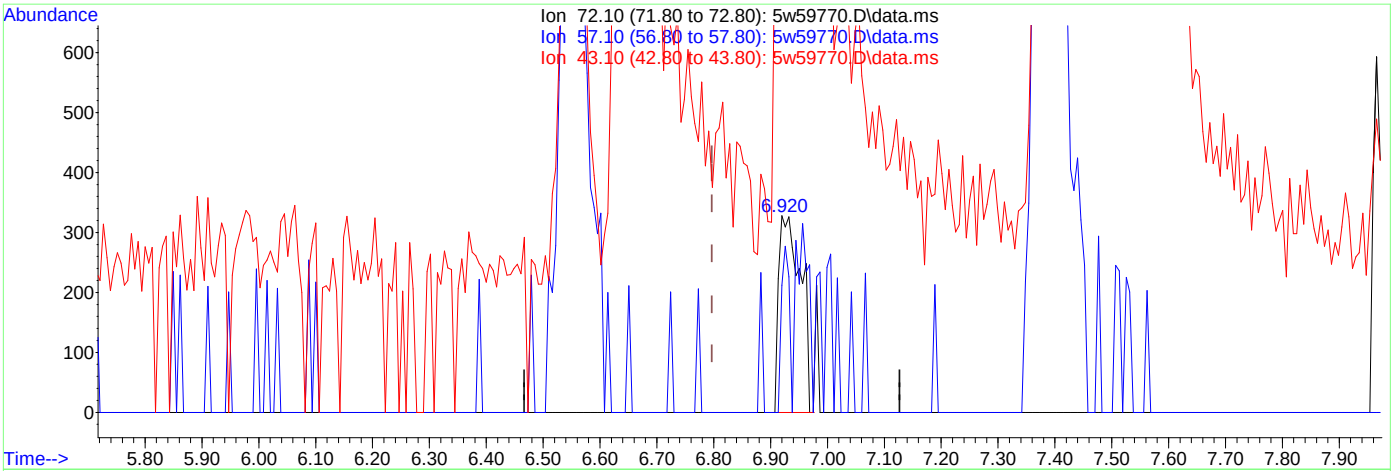
response 1642

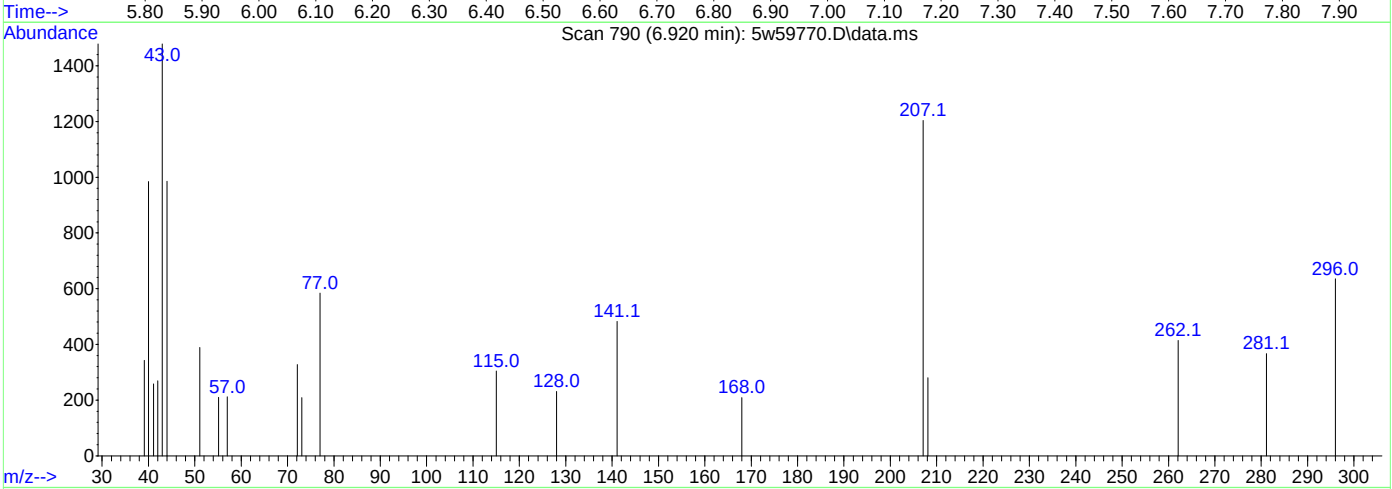
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	106.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.04PPBV

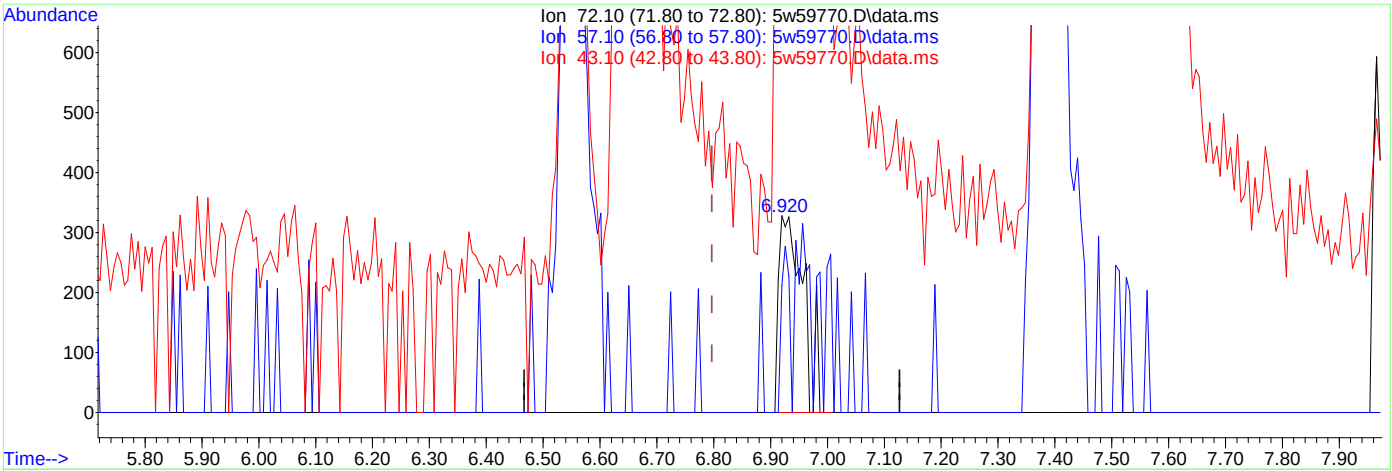
response 878

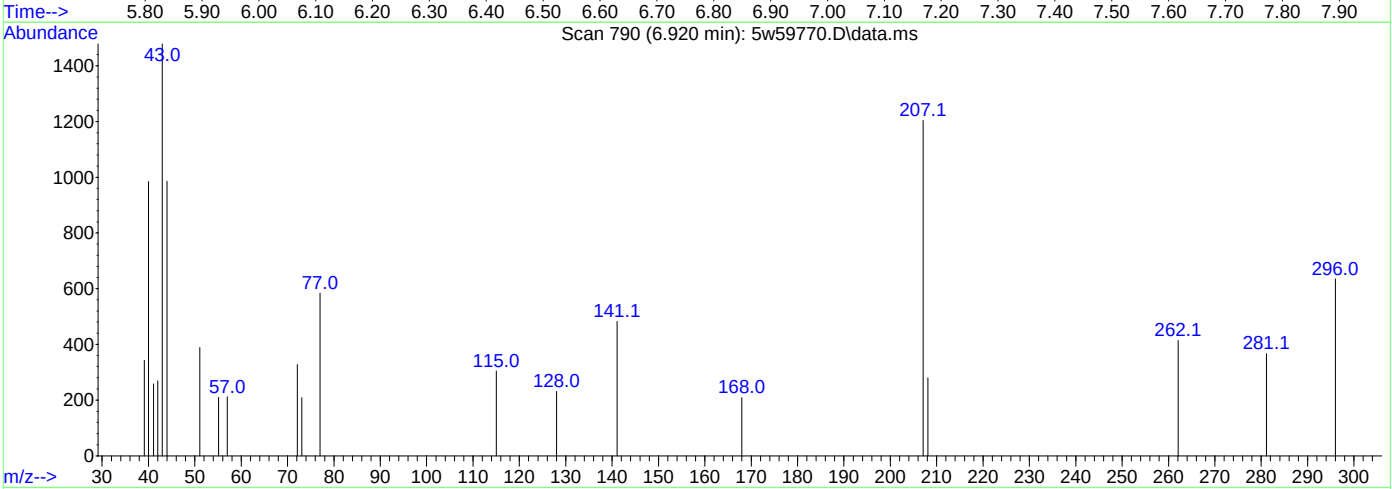
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.05PPBV m

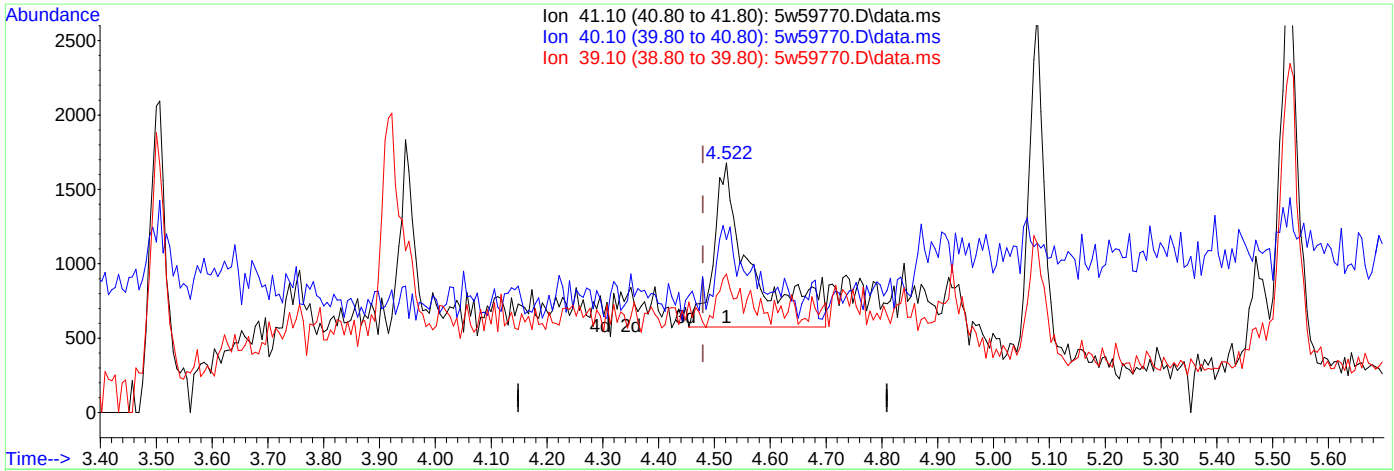
response 956

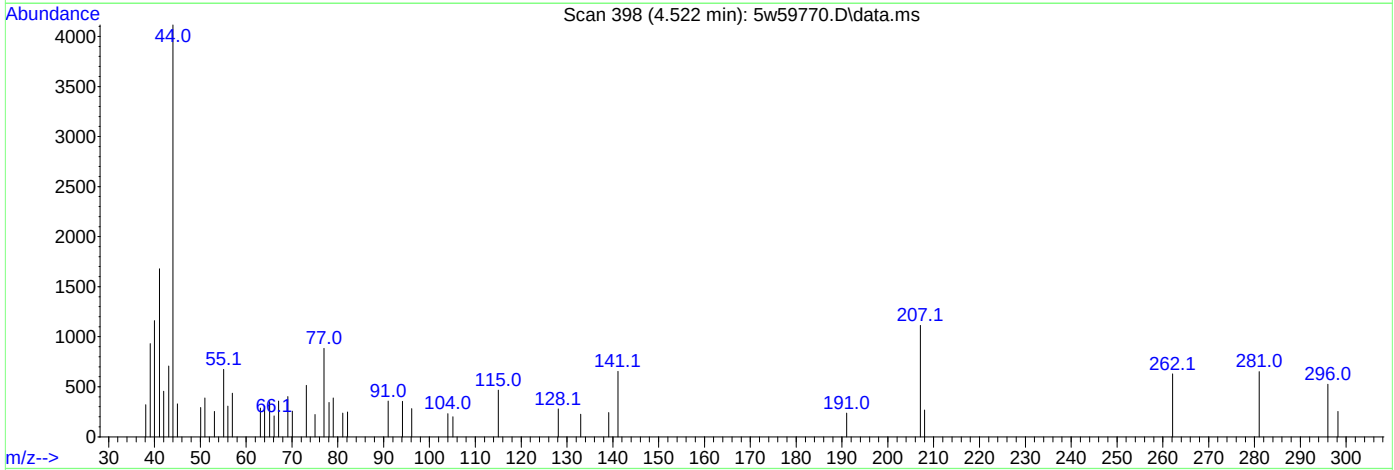
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.21PPBV

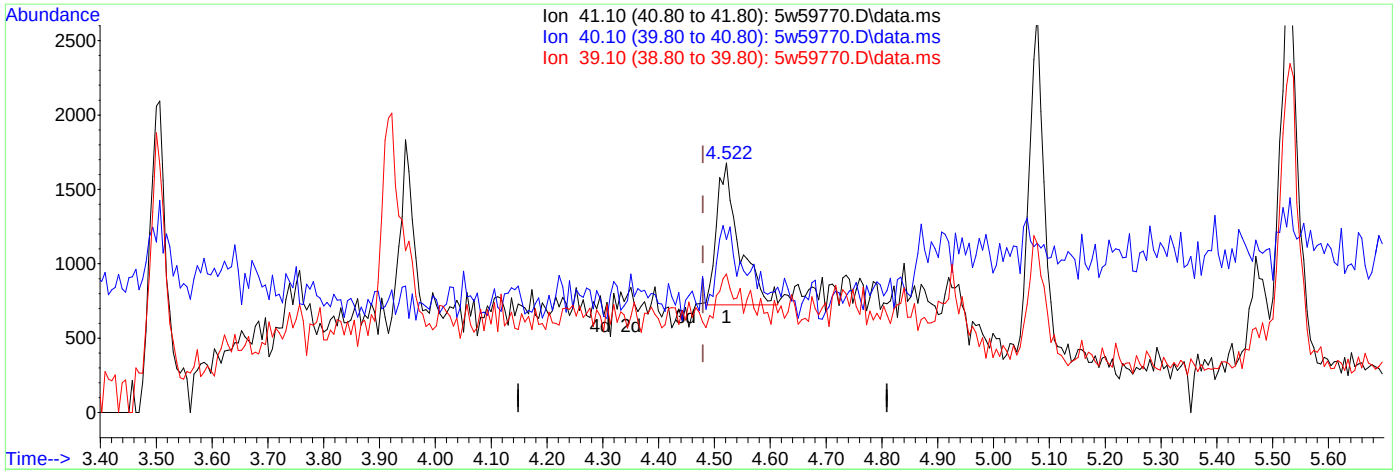
response 5252

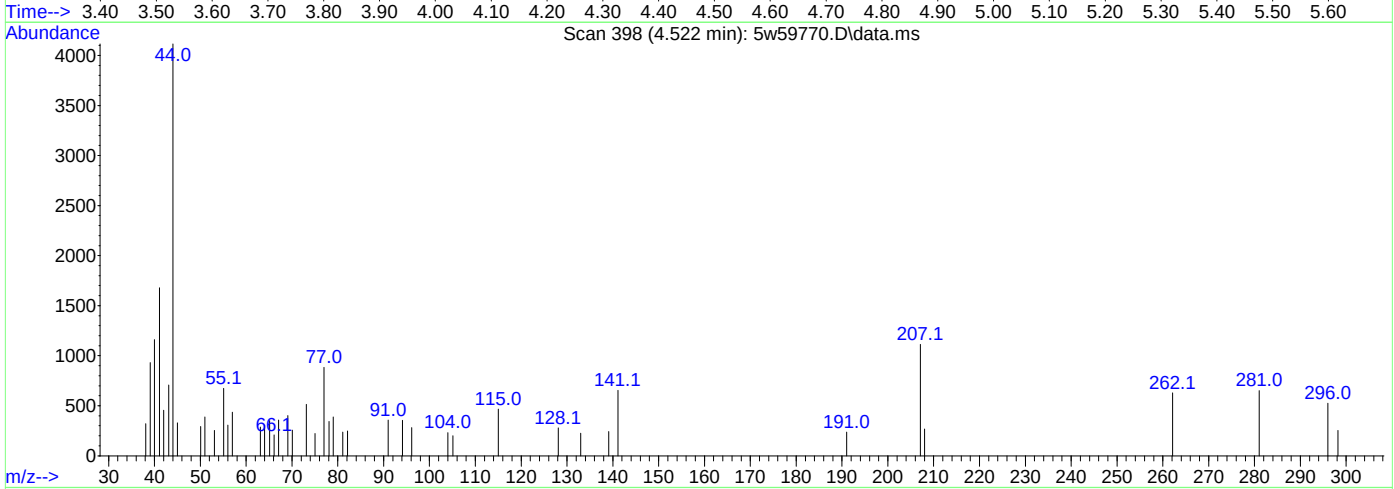
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	50.95
39.10	19.10	23.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.10PPBV m

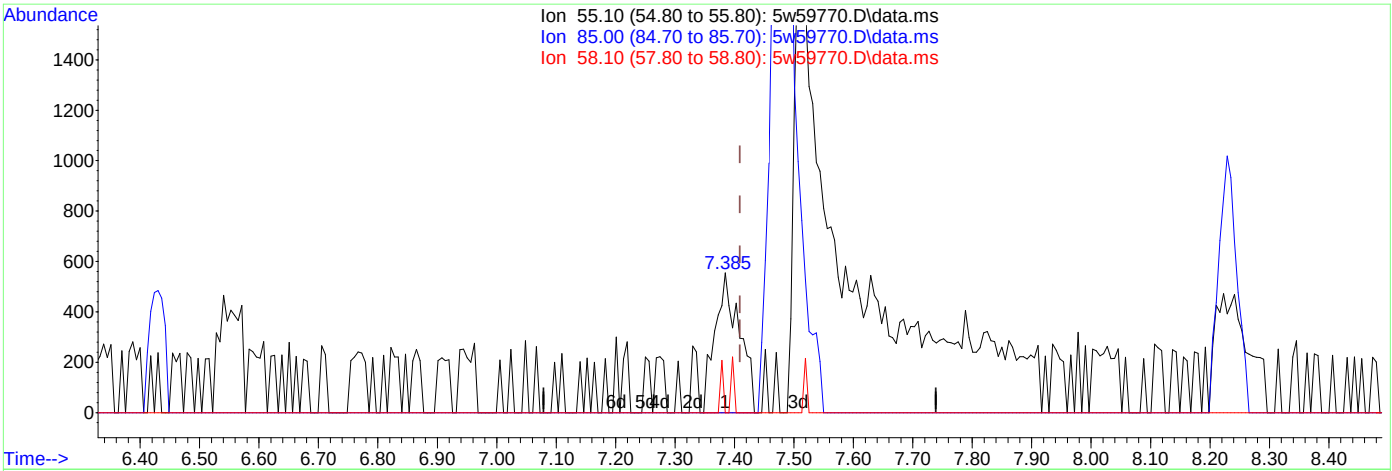
response 2670

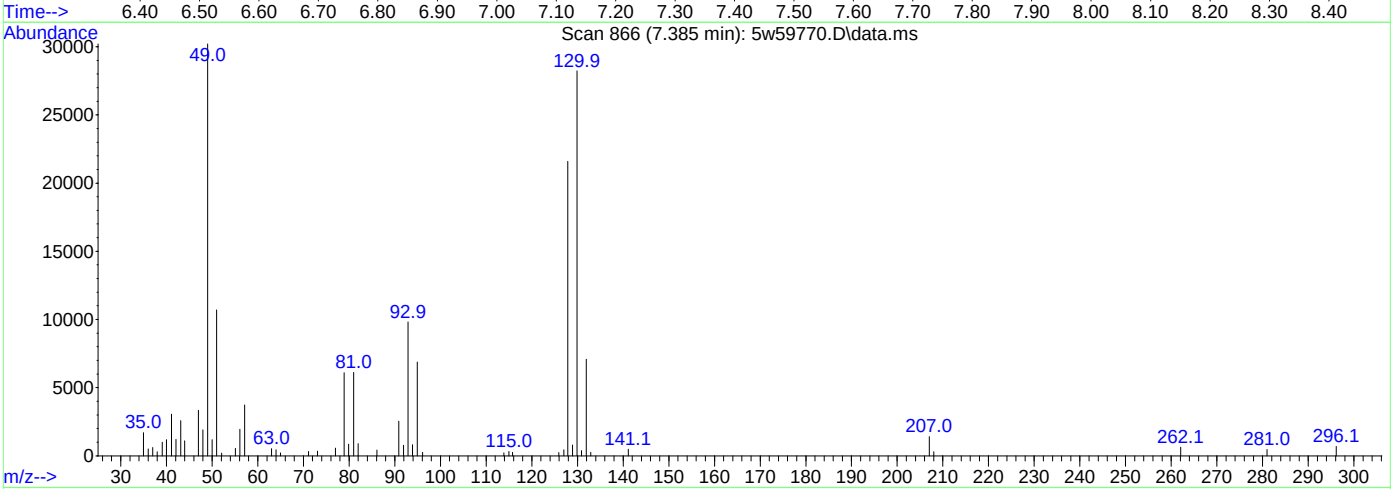
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	100.22#
39.10	19.10	46.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.02PPBV

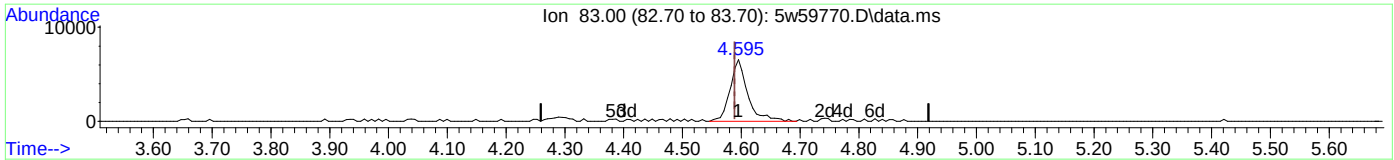
response 1598

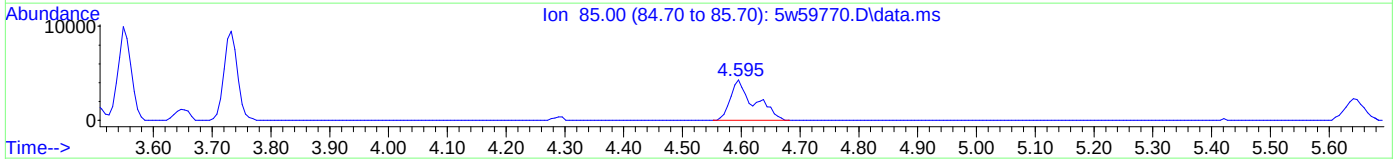
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

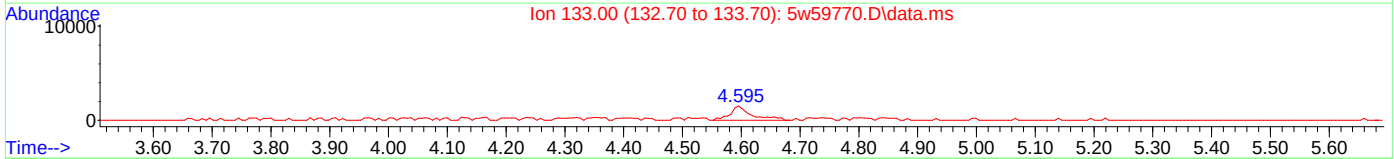
Quantitation Report (Qedit)

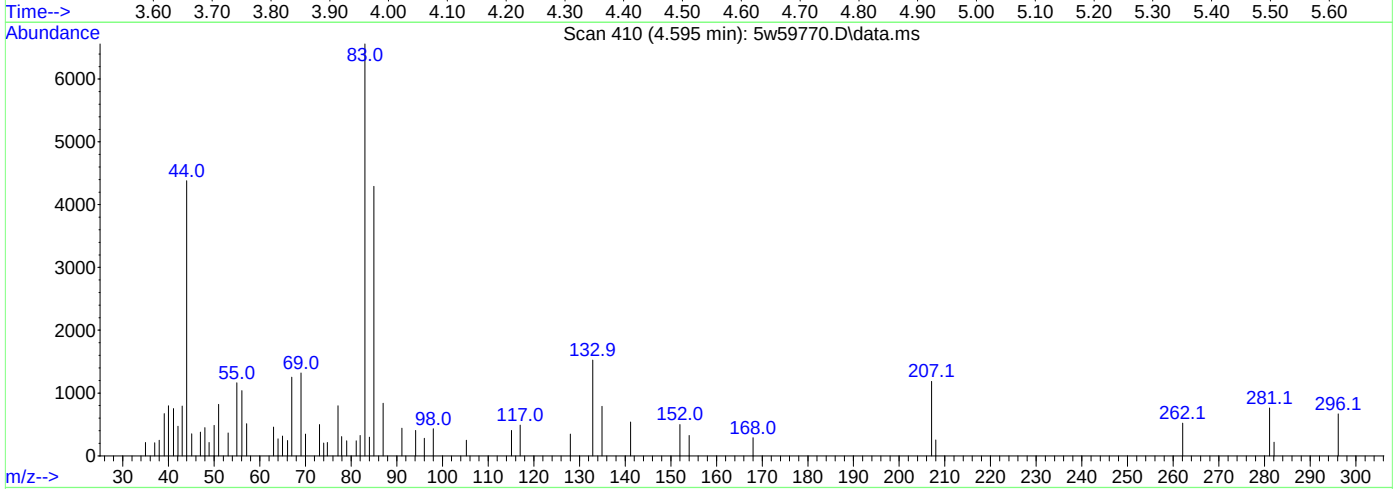
Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration









TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV

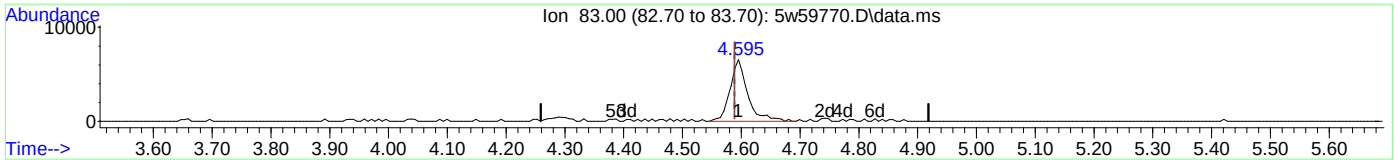
response 13808

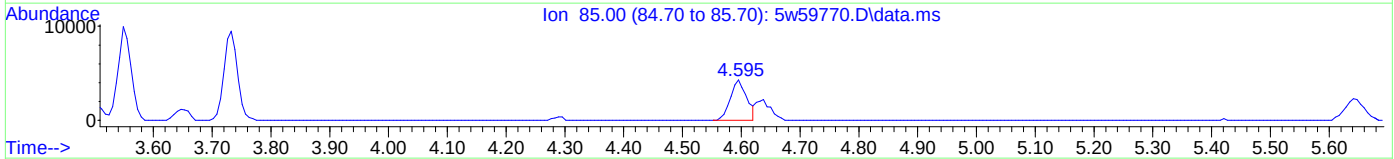
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	87.89
133.00	20.70	28.69
0.00	0.00	0.00

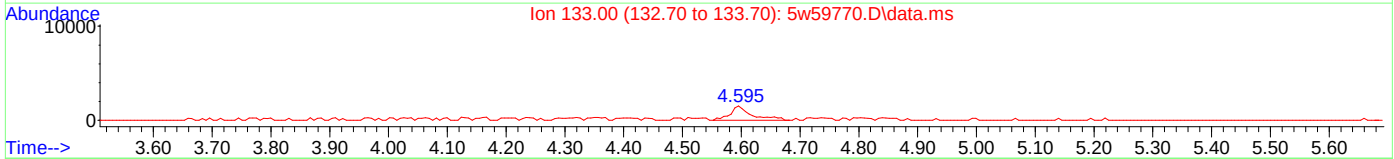
Quantitation Report (Qedit)

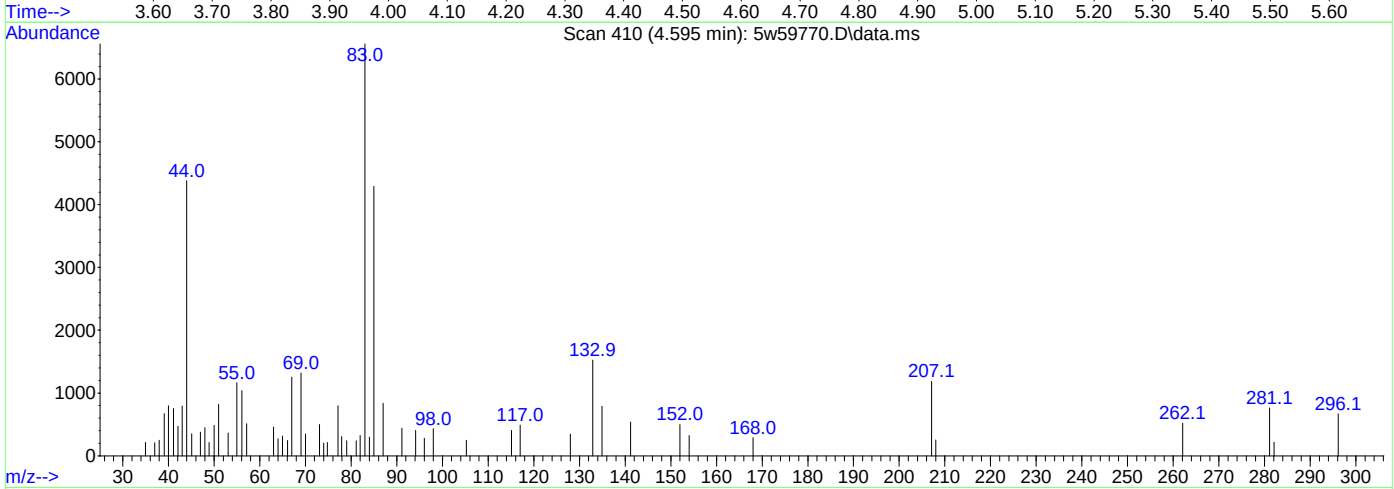
Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration









TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV m

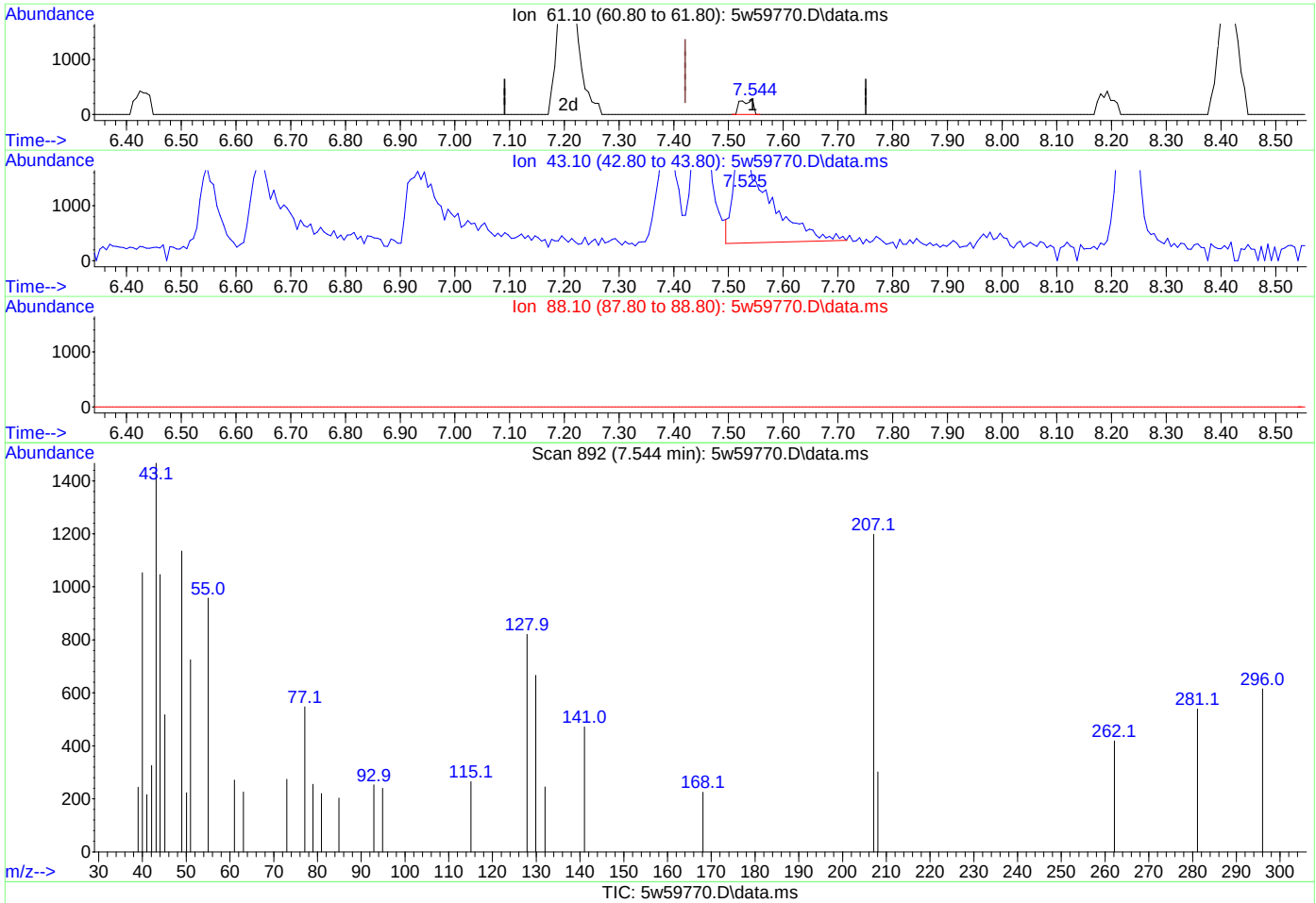
response 13808

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	60.19
133.00	20.70	28.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV

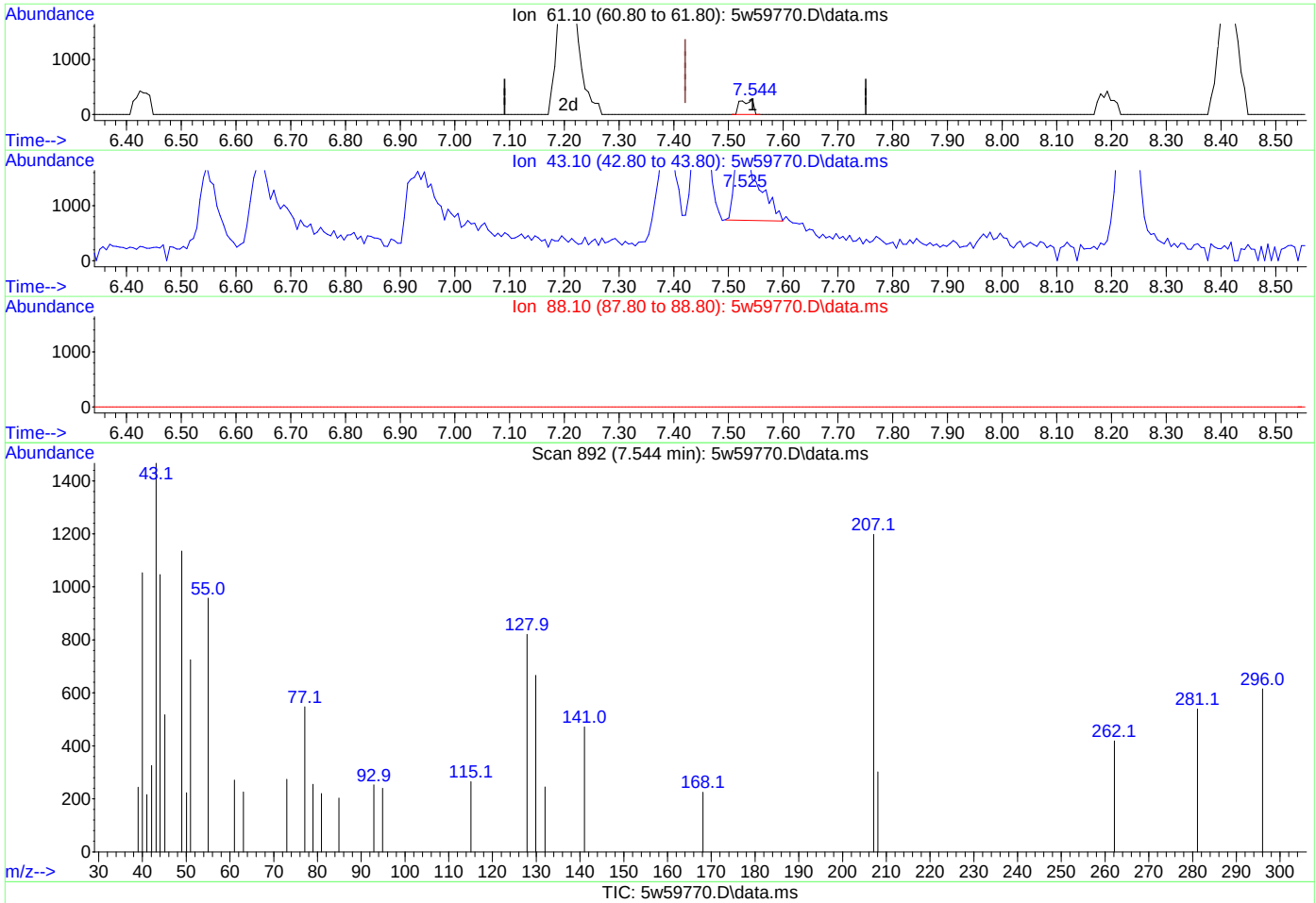
response 434

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1705.99#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV m

response 434

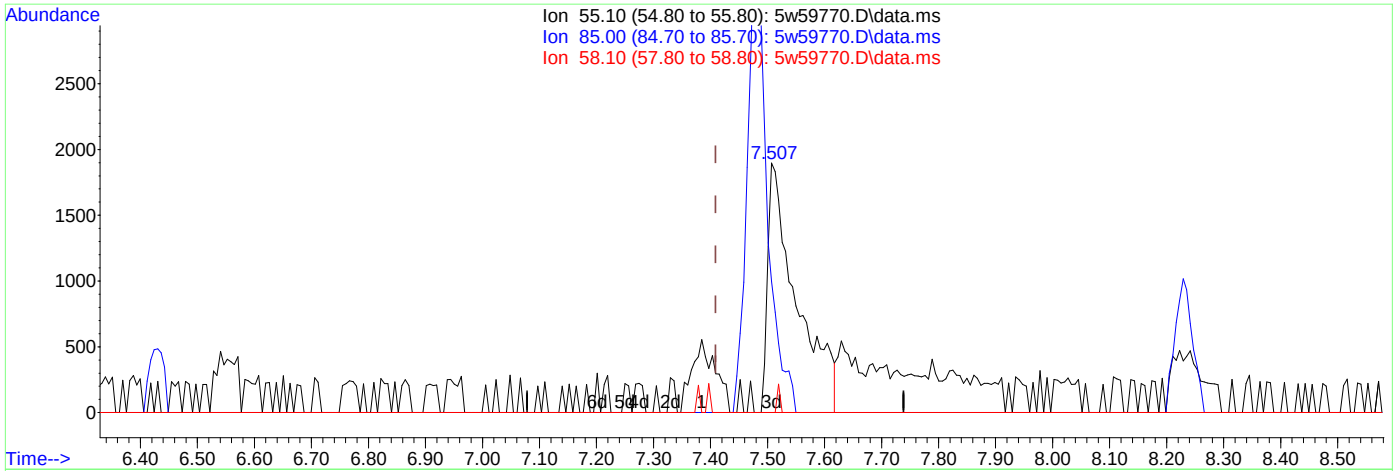
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	829.03#
88.10	34.50	0.00#
0.00	0.00	0.00

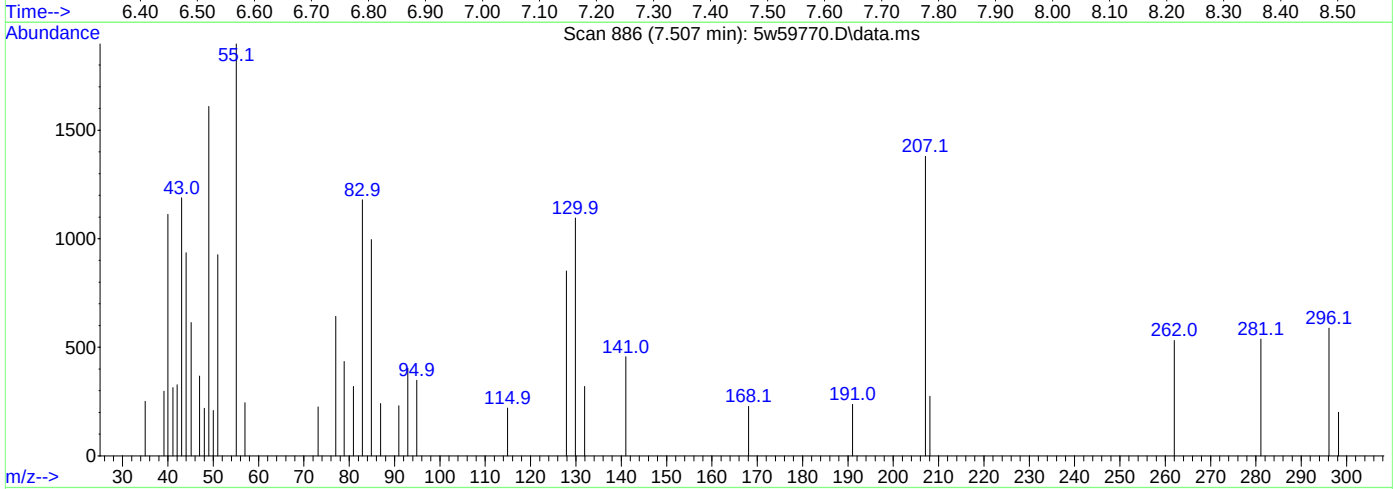
5W59770.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:51:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.507min (+0.098) 0.08PPBV m

response 6719

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	467597	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2126307	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1045384	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	471090	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1427663	11.16	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.60%				
Target Compounds							Qvalue
2) FREON 115	3.372	119	4412	0.12	PPBV		95
3) FREON 152A	3.445	65	7777	0.24	PPBV		98
4) CHLORODIFLUOROMETHANE	3.482	67	3190	0.21	PPBV		100
5) CHLOROTRIFLUOROETHENE	3.506	116	14712	0.20	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	29673	0.22	PPBV		99
7) PROPYLENE	3.506	41	8750	0.24	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	25496	0.24	PPBV		98
9) FREON 114	3.733	85	30048	0.24	PPBV		100
10) CHLOROMETHANE	3.665	52	3463	0.25	PPBV	#	84
11) VINYL CHLORIDE	3.818	62	10347	0.23	PPBV		91
12) 1,3-BUTADIENE	3.916	54	6663	0.25	PPBV		93
13) n-BUTANE	3.947	43	10741	0.25	PPBV	#	93
14) BROMOMETHANE	4.106	94	10837	0.23	PPBV		77
15) CHLOROETHANE	4.228	64	5570	0.26	PPBV		90
16) DICHLOROFLUOROMETHANE	4.289	67	22344	0.23	PPBV		99
17) ACETONITRILE	4.510	41	6047	0.24	PPBV	#	74
18) ACROLEIN	4.595	56	3414m	0.24	PPBV		
19) FREON 123	4.595	83	25775m	0.24	PPBV		
20) FREON 123A	4.638	117	14980	0.23	PPBV		96
21) TRICHLOROFLUOROMETHANE	4.797	101	26063	0.22	PPBV		93
22) ISOPROPYL ALCOHOL	4.926	45	22029	0.25	PPBV		87
23) ACETONE	4.718	58	6066	0.34	PPBV		100
24) PENTANE	5.079	42	10859	0.25	PPBV		93
25) IODOMETHANE	5.256	142	32697	0.22	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.323	96	10700	0.22	PPBV		95
27) CARBON DISULFIDE	5.678	76	29507	0.22	PPBV		92
28) ETHANOL	4.344	45	12121	0.73	PPBV		98
29) BROMOETHENE	4.485	106	10750	0.22	PPBV		92
30) ACRYLONITRILE	5.085	52	7876	0.26	PPBV		94
31) METHYLENE CHLORIDE	5.427	84	11602	0.27	PPBV		97
32) 3-CHLOROPROPENE	5.525	76	4977	0.22	PPBV		98
33) FREON 113	5.647	151	17747	0.21	PPBV		95
34) TRANS-1,2-DICHLOROETHY...	6.247	96	11590	0.22	PPBV		85
35) TERTIARY BUTYL ALCOHOL	5.464	59	19541	0.20	PPBV		97
36) METHYL TERTIARY BUTYL ...	6.541	73	29335	0.23	PPBV		89
37) TETRAHYDROFURAN	7.954	72	3172	0.16	PPBV	#	59
38) HEXANE	7.385	57	18650	0.26	PPBV	#	77
39) VINYL ACETATE	6.620	86	653	0.09	PPBV	#	1
40) 1,1-DICHLOROETHANE	6.431	63	21909	0.23	PPBV		96
41) METHYL ETHYL KETONE	6.902	72	2781	0.14	PPBV	#	80
42) cis-1,2-DICHLOROETHYLENE	7.207	96	12027	0.22	PPBV		91
43) DIISOPROPYL ETHER	7.440	59	3909	0.18	PPBV	#	53
44) ETHYL ACETATE	7.501	61	2309m	0.15	PPBV		
45) METHYL ACRYLATE	7.489	55	14366m	0.17	PPBV		
46) CHLOROFORM	7.483	83	23090	0.22	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	18643	0.22	PPBV		100
48) 1,1,1-TRICHLOROETHANE	8.413	97	24304	0.22	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	25552	0.21	PPBV		100
50)	1,2-DICHLOROETHANE	8.186	62	16304	0.22	PPBV		94
52)	BENZENE	8.859	78	30072	0.21	PPBV		99
53)	CYCLOHEXANE	9.110	84	12037	0.20	PPBV		94
54)	2,3-DIMETHYLPENTANE	9.355	71	5961	0.20	PPBV		91
55)	TRICHLOROETHYLENE	9.899	95	14290	0.19	PPBV		99
56)	1,2-DICHLOROPROPANE	9.667	63	12562	0.20	PPBV		99
57)	DIBROMOMETHANE	9.642	174	16323	0.20	PPBV		98
58)	ETHYL ACRYLATE	9.801	55	11494m	0.10	PPBV		
59)	BROMODICHLOROMETHANE	9.856	83	25637	0.20	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	49437	0.21	PPBV		95
61)	1,4-DIOXANE	9.997	88	7396	0.22	PPBV	#	1
62)	HEPTANE	10.193	43	19280	0.24	PPBV		92
63)	METHYL METHACRYLATE	10.175	69	8860	0.18	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.890	58	6548	0.14	PPBV	#	70
65)	cis-1,3-DICHLOROPROPENE	10.774	75	20672	0.20	PPBV		93
66)	TOLUENE	11.735	92	21289	0.19	PPBV		93
67)	1,3-DICHLOROPROPANE	11.777	76	18562m	0.21	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.312	75	19068	0.20	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.465	83	11660	0.19	PPBV		99
71)	2-HEXANONE	12.169	58	9038m	0.16	PPBV		
72)	ETHYL METHACRYLATE	12.083	69	14602	0.19	PPBV	#	86
73)	TETRACHLOROETHYLENE	12.879	164	16678	0.23	PPBV		96
74)	DIBROMOCHLOROMETHANE	12.163	129	26574	0.21	PPBV		99
75)	1,2-DIBROMOETHANE	12.414	107	22241	0.22	PPBV		100
76)	OCTANE	12.750	43	23489	0.25	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	17410	0.21	PPBV		95
78)	CHLOROBENZENE	13.588	112	29927	0.23	PPBV		100
79)	ETHYLBENZENE	14.004	91	48060	0.24	PPBV		96
80)	m,p-XYLENE	14.188	106	36141	0.45	PPBV		97
81)	o-XYLENE	14.689	106	17278	0.23	PPBV		90
82)	STYRENE	14.598	104	26105	0.21	PPBV		86
83)	NONANE	14.934	43	25033	0.26	PPBV		94
84)	BROMOFORM	14.261	173	25461	0.20	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.696	83	30281	0.23	PPBV		97
87)	1,2,3-TRICHLOROPROPANE	14.836	75	24248	0.24	PPBV		93
88)	ISOPROPYLBENZENE	15.307	105	52329	0.23	PPBV		98
89)	BROMOBENZENE	15.393	77	27933	0.24	PPBV		92
90)	2-CHLOROTOLUENE	15.785	126	13598	0.21	PPBV		86
91)	n-PROPYLBENZENE	15.827	120	13388	0.21	PPBV		99
92)	4-ETHYLTOLUENE	15.974	105	48336	0.22	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.048	105	48446	0.26	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.219	118	19855	0.19	PPBV		97
95)	tert-BUTYLBENZENE	16.433	134	8909	0.22	PPBV	#	87
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	44191	0.24	PPBV		99
97)	m-DICHLOROBENZENE	16.592	146	29601	0.20	PPBV		98
98)	BENZYL CHLORIDE	16.586	91	33418	0.19	PPBV		96
99)	p-DICHLOROBENZENE	16.659	146	36208	0.24	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	11583	0.23	PPBV		91
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	45724	0.24	PPBV		94
102)	p-ISOPROPYLTOLUENE	16.867	134	13423	0.23	PPBV		93
103)	o-DICHLOROBENZENE	16.990	146	31360	0.22	PPBV		98
104)	n-BUTYLBENZENE	17.271	134	12074	0.20	PPBV	#	83
105)	HEXACHLOROETHANE	17.608	117	22122	0.23	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	30270	0.23	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.898	180	27720	0.21	PPBV		97
108)	NAPHTHALENE	18.678	128	62904	0.22	PPBV		97
110)	TVHC as equiv Pentane	5.079	TIC	73523	0.25	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

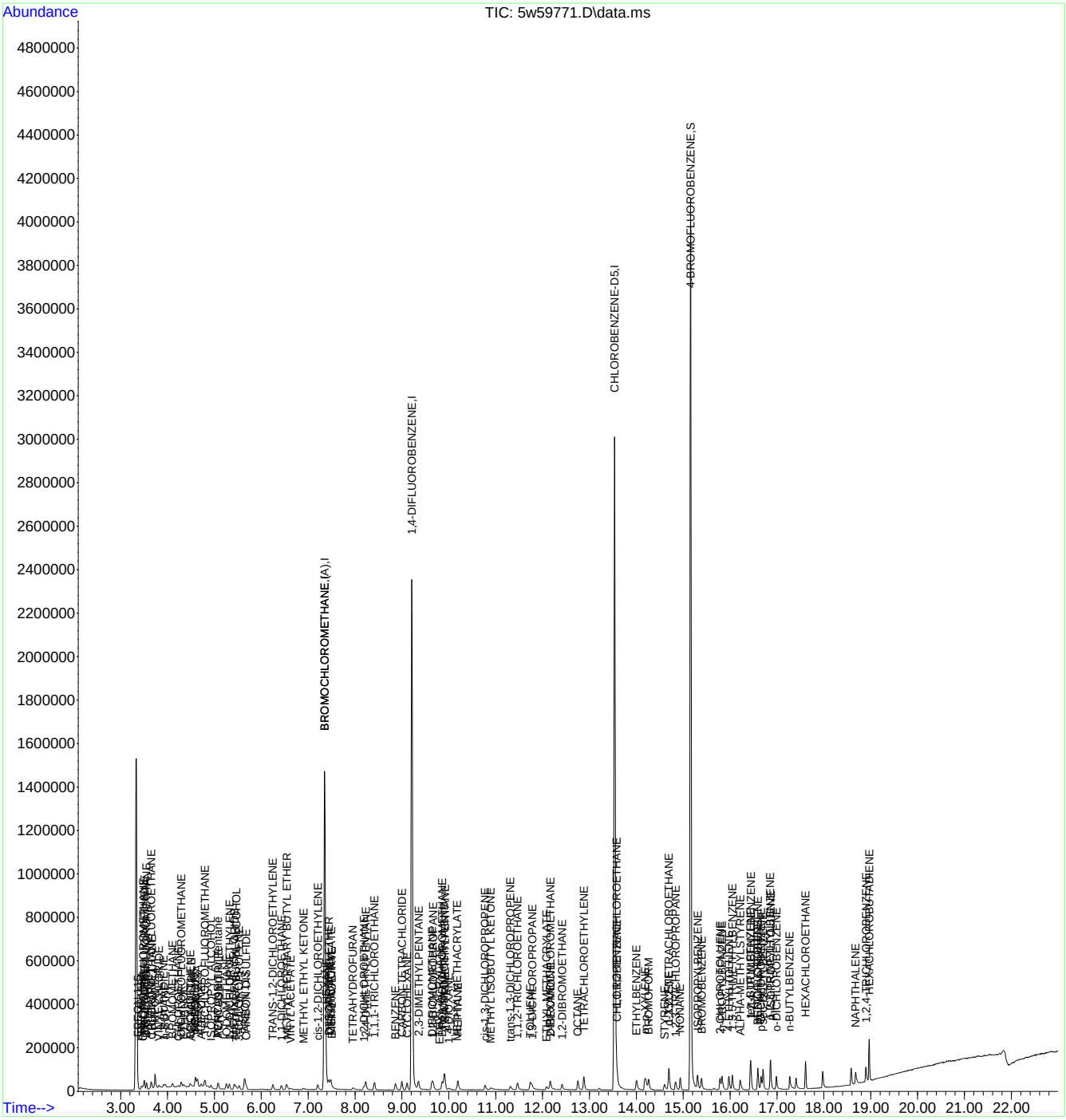
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

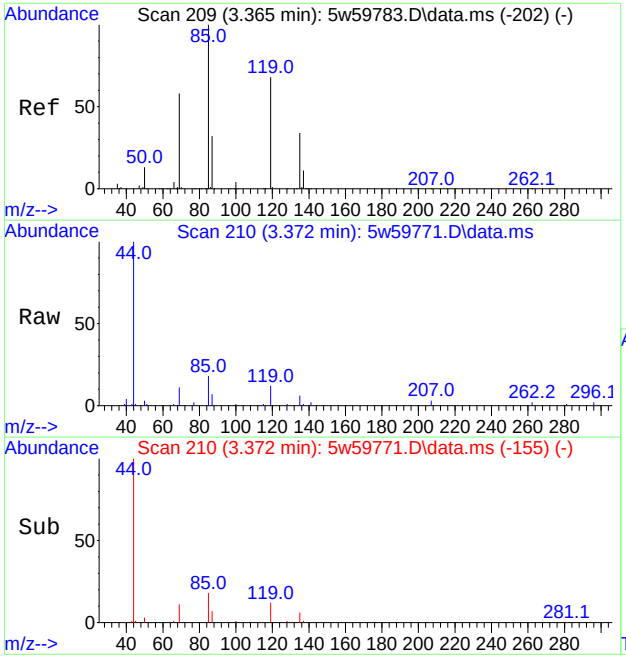
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

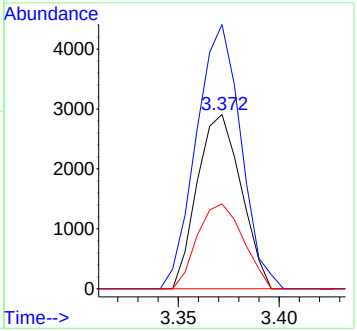


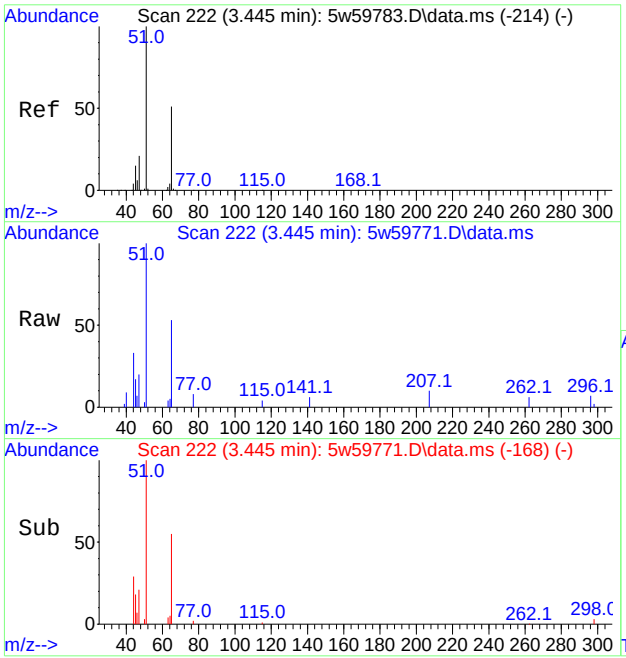


#2
FREON 115
Concen: 0.12 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:119 Resp: 4412

Ion	Ratio	Lower	Upper
119	100		
85	153.9	116.2	176.2
135	50.8	20.6	80.6

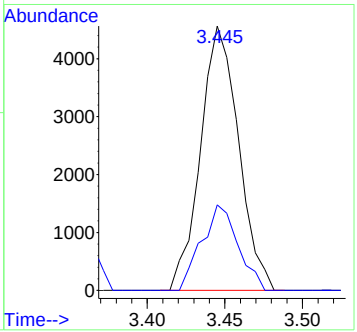


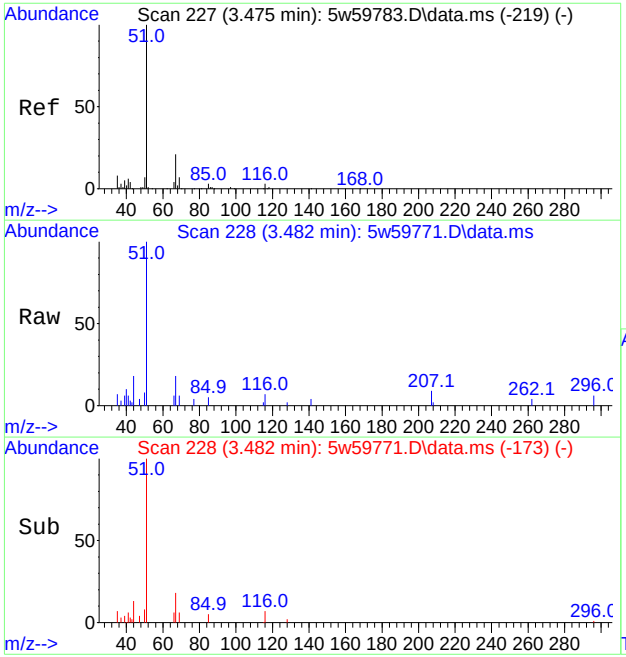


#3
FREON 152A
Concen: 0.24 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 7777

Ion	Ratio	Lower	Upper
65	100		
45	30.9	0.0	60.0

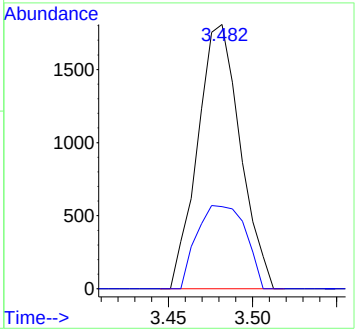


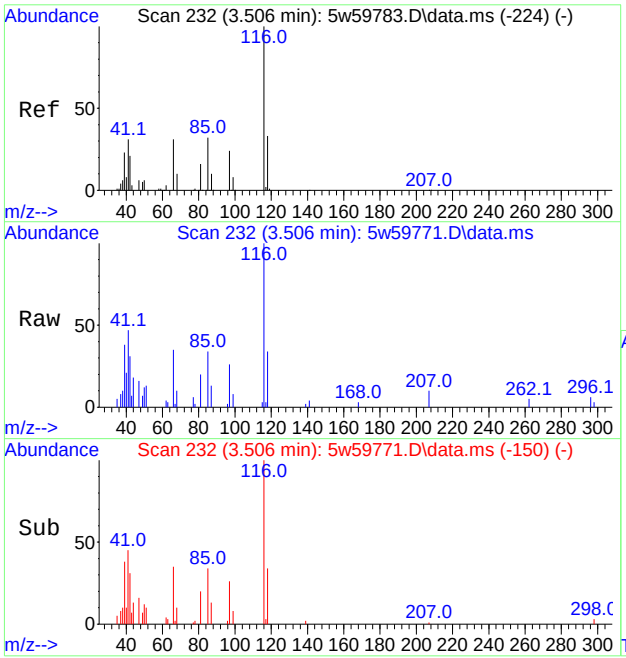


#4
CHLORODIFLUOROMETHANE
Concen: 0.21 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 3190

Ion	Ratio	Lower	Upper
67	100		
69	31.1	1.0	61.0

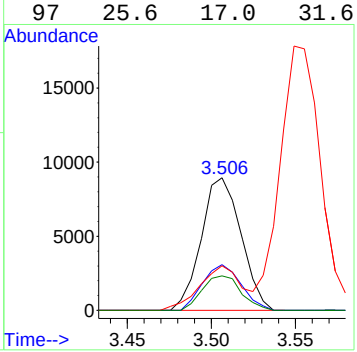


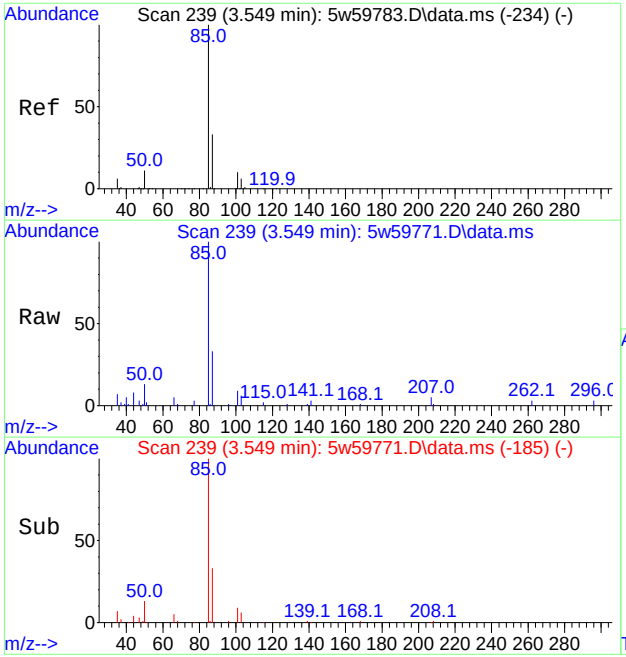


#5
CHLOROTRIFLUOROETHENE
Concen: 0.20 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:116 Resp: 14712

Ion	Ratio	Lower	Upper
116	100		
118	33.6	22.9	42.5
85	35.8	23.7	44.1
97	25.6	17.0	31.6

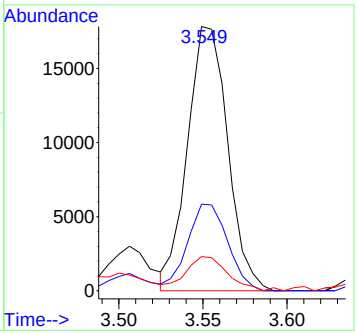


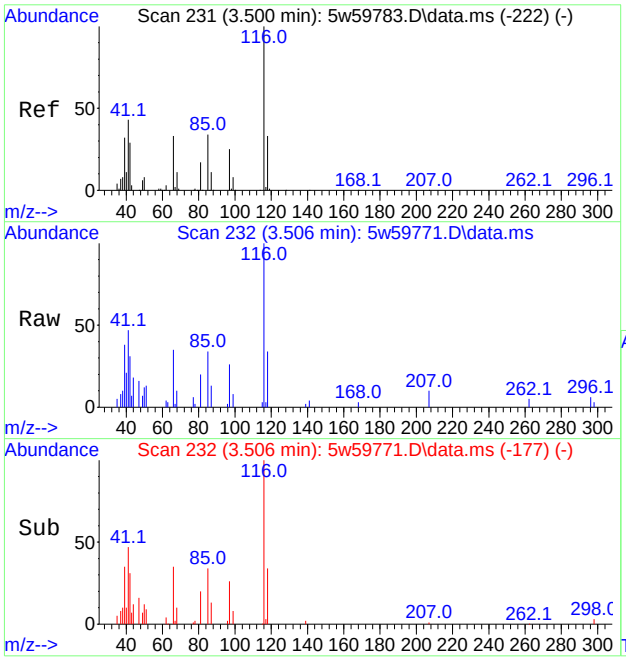


#6
DICHLORODIFLUOROMETHANE
Concen: 0.22 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 29673

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	13.3	0.0	41.7

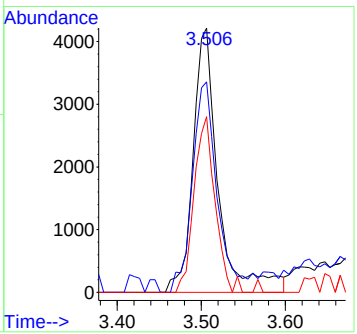


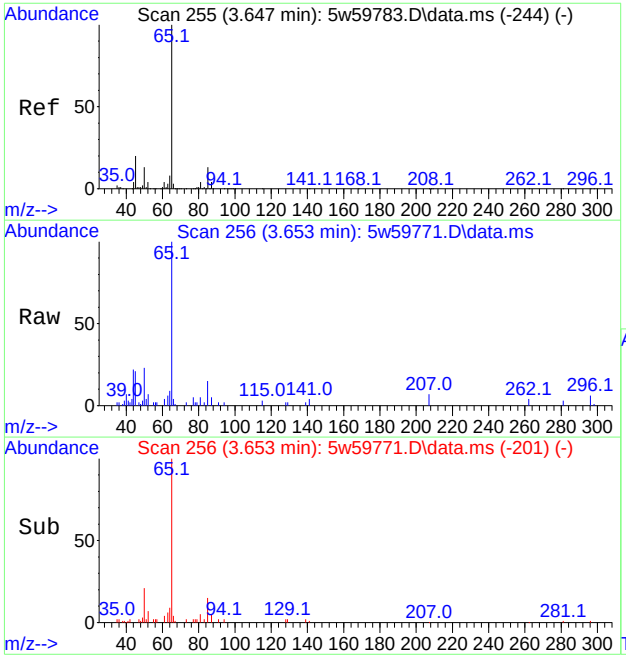


#7
PROPYLENE
Concen: 0.24 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 8750

Ion	Ratio	Lower	Upper
41	100		
39	85.7	45.1	105.1
42	55.7	36.3	96.3

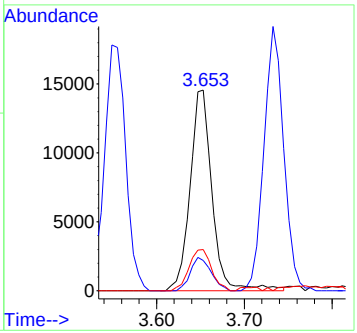


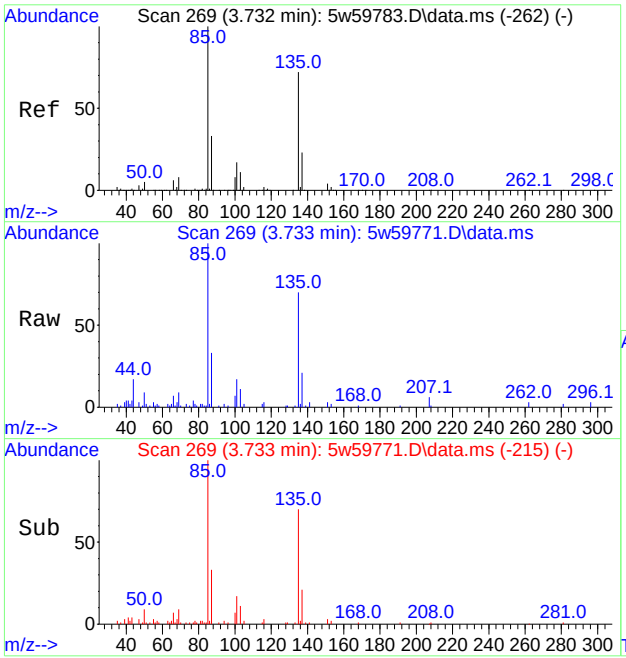


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.24 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 25496

Ion	Ratio	Lower	Upper
65	100		
85	15.6	11.5	21.3
45	21.1	14.0	26.0

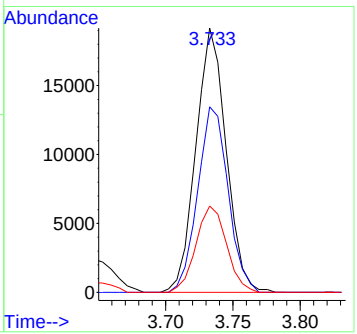


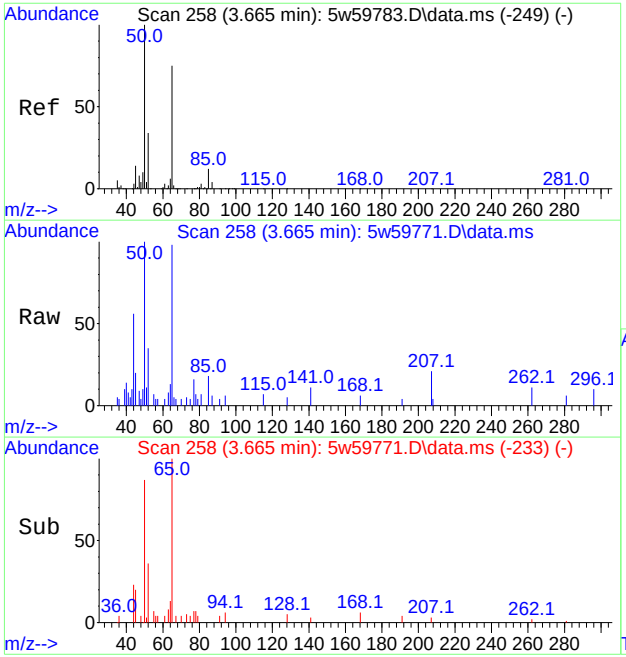


#9
FREON 114
Concen: 0.24 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 30048

Ion	Ratio	Lower	Upper
85	100		
135	70.7	40.5	100.5
87	33.1	3.0	63.0

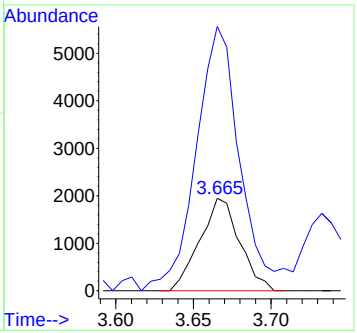


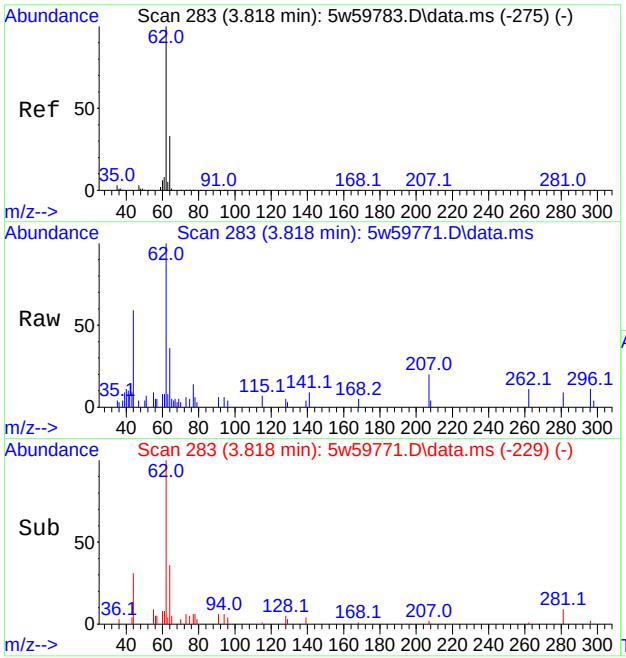


#10
CHLOROMETHANE
Concen: 0.25 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 3463

Ion	Ratio	Lower	Upper
52	100		
50	267.4	267.9	327.9#

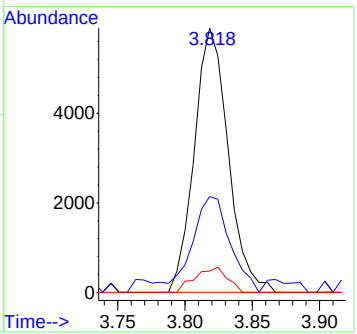


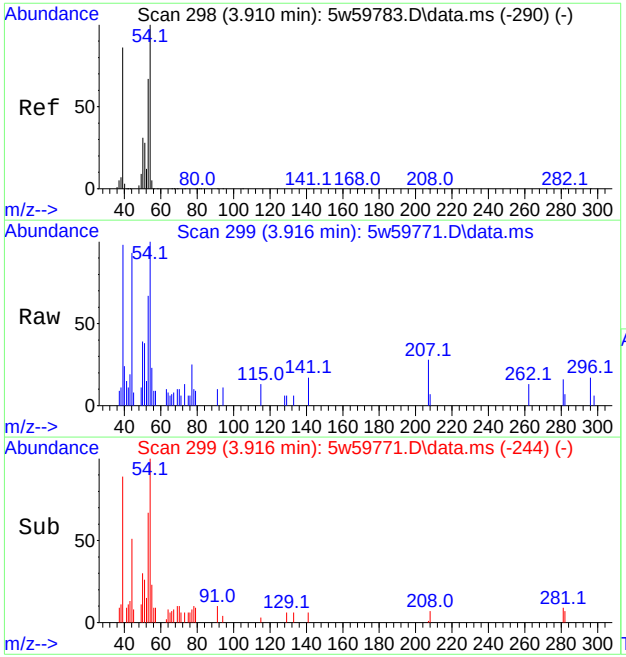


#11
VINYL CHLORIDE
Concen: 0.23 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 10347

Ion	Ratio	Lower	Upper
62	100		
64	39.8	3.6	63.6
61	9.1	0.0	38.2

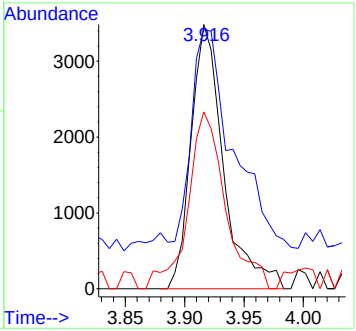


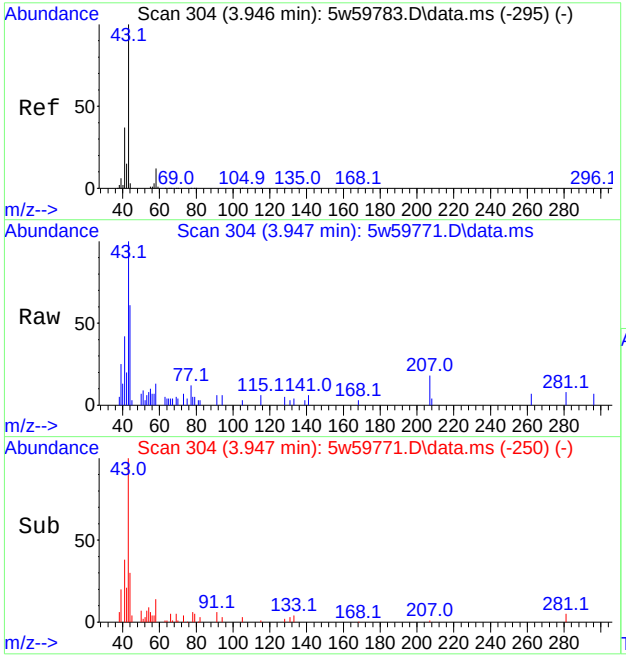


#12
1,3-BUTADIENE
Concen: 0.25 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 54 Resp: 6663

Ion	Ratio	Lower	Upper
54	100		
39	104.6	82.0	142.0
53	76.7	40.2	100.2

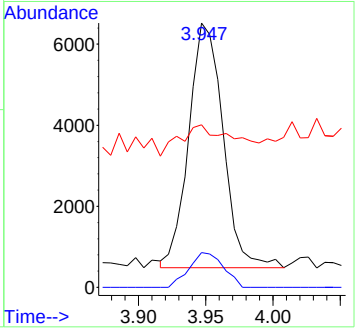


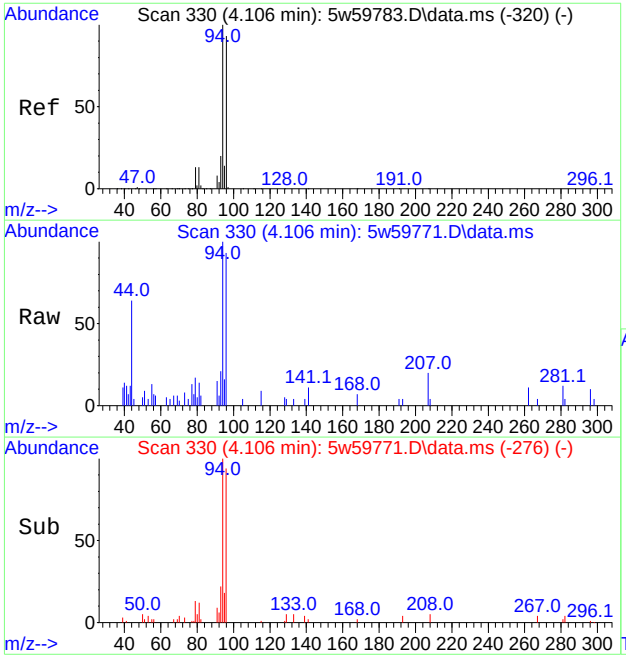


#13
n-BUTANE
Concen: 0.25 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 10741

Ion	Ratio	Lower	Upper
43	100		
58	14.2	0.0	42.6
44	0.0	0.0	34.9

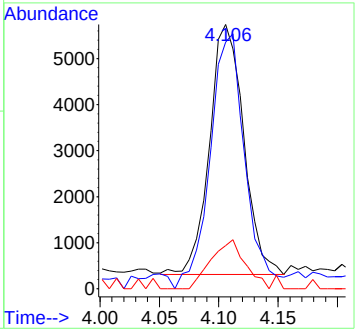


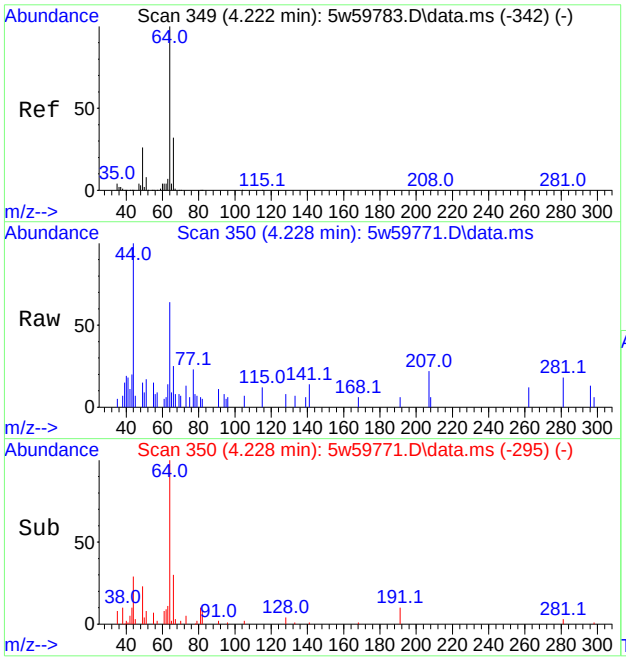


#14
BROMOMETHANE
Concen: 0.23 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 94 Resp: 10837

Ion	Ratio	Lower	Upper
94	100		
96	119.6	65.3	125.3
95	19.5	0.0	44.1

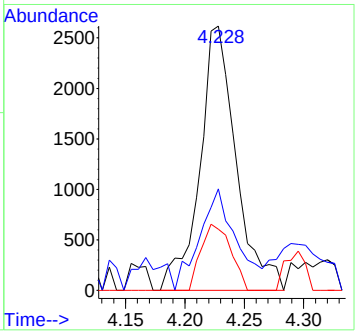


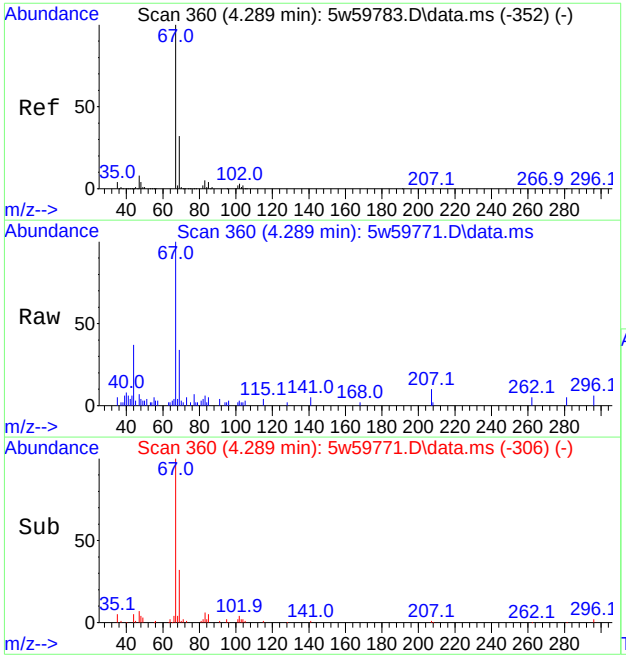


#15
CHLOROETHANE
Concen: 0.26 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 64 Resp: 5570

Ion	Ratio	Lower	Upper
64	100		
66	38.9	3.1	63.1
49	20.5	0.0	55.3

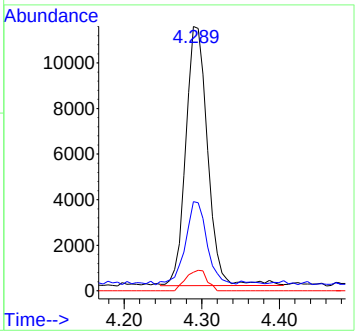


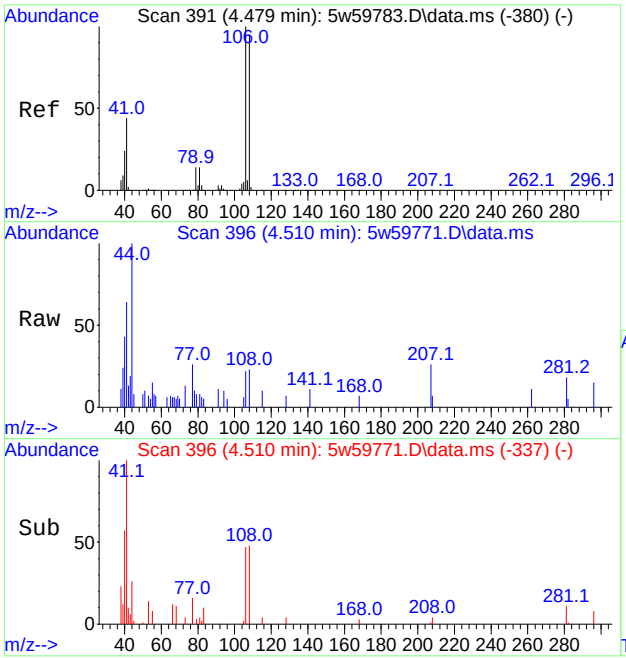


#16
DICHLOROFLUOROMETHANE
Concen: 0.23 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 22344

Ion	Ratio	Lower	Upper
67	100		
69	31.7	22.7	42.3
47	7.6	5.6	10.4

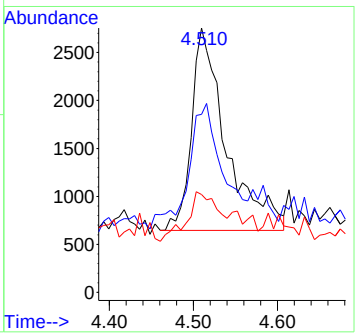


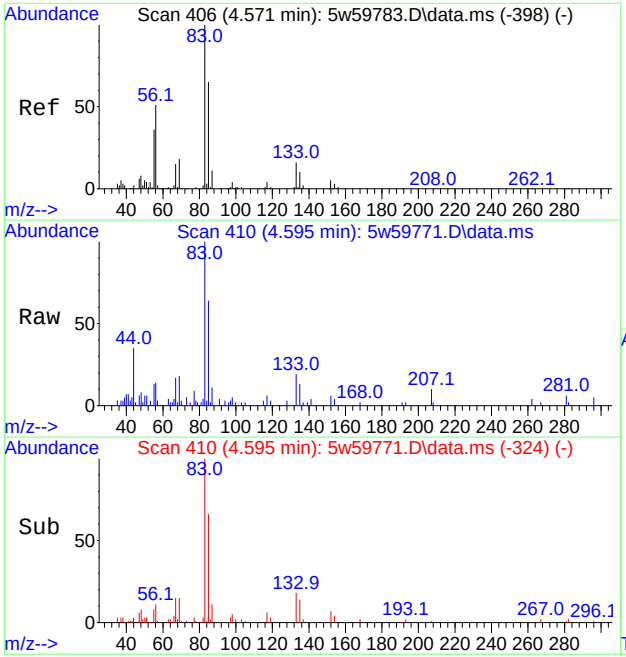


#17
ACETONITRILE
Concen: 0.24 PPBV
RT: 4.510 min Scan# 396
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 6047

Ion	Ratio	Lower	Upper
41	100		
40	72.0	37.9	70.5#
39	31.5	13.4	24.8#

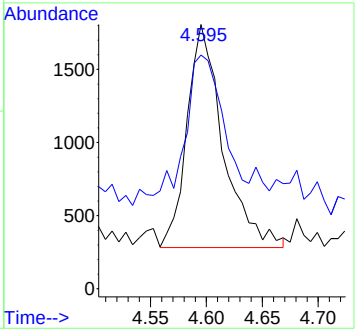


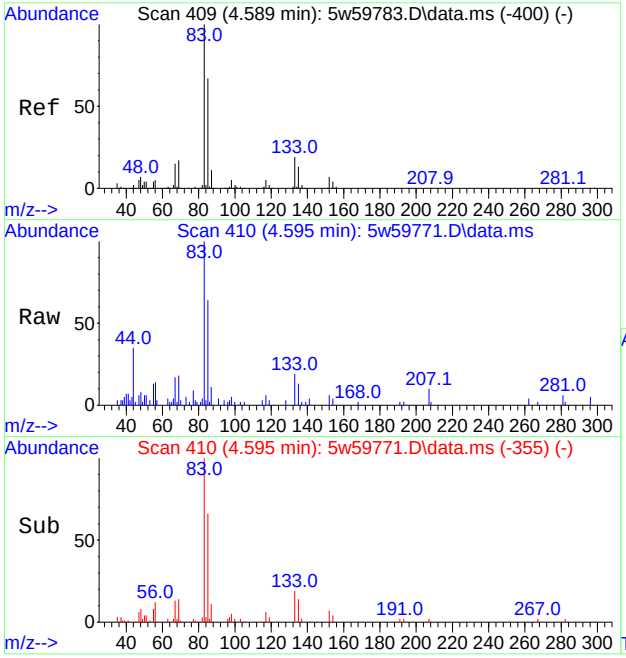


#18
ACROLEIN
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 56 Resp: 3414

Ion	Ratio	Lower	Upper
56	100		
55	99.6	46.6	86.6#

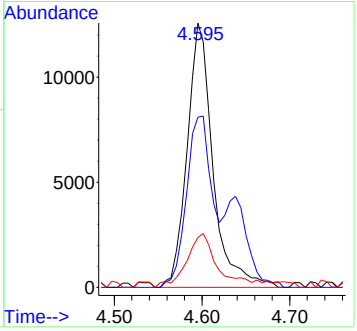


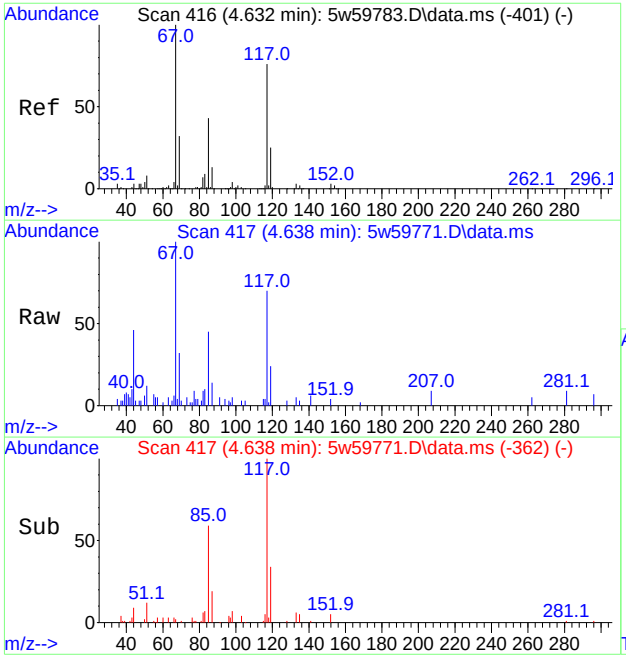


#19
FREON 123
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25775

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.0	94.0
133	26.8	0.0	50.7

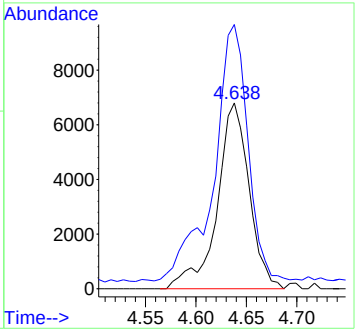


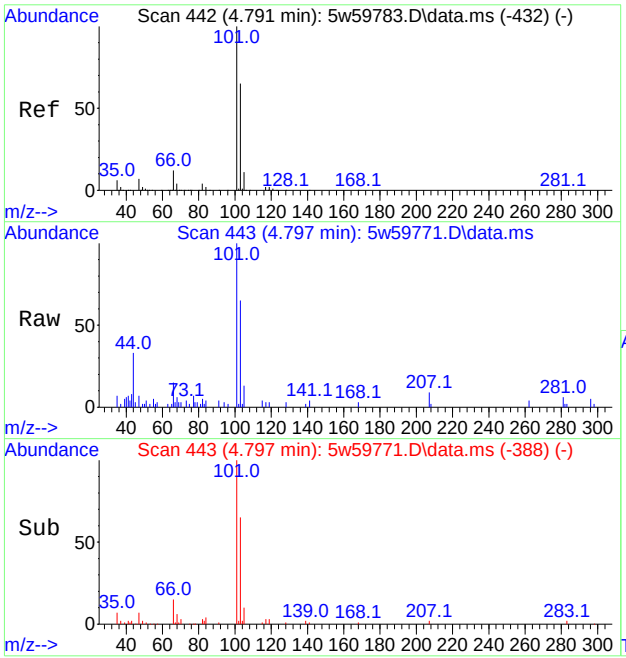


#20
FREON 123A
Concen: 0.23 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 14980

Ion	Ratio	Lower	Upper
117	100		
67	149.3	114.6	174.6

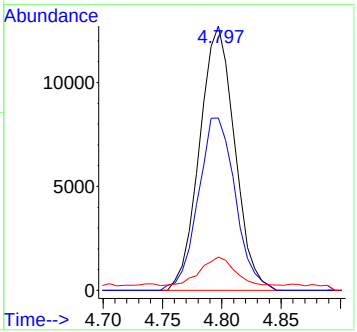


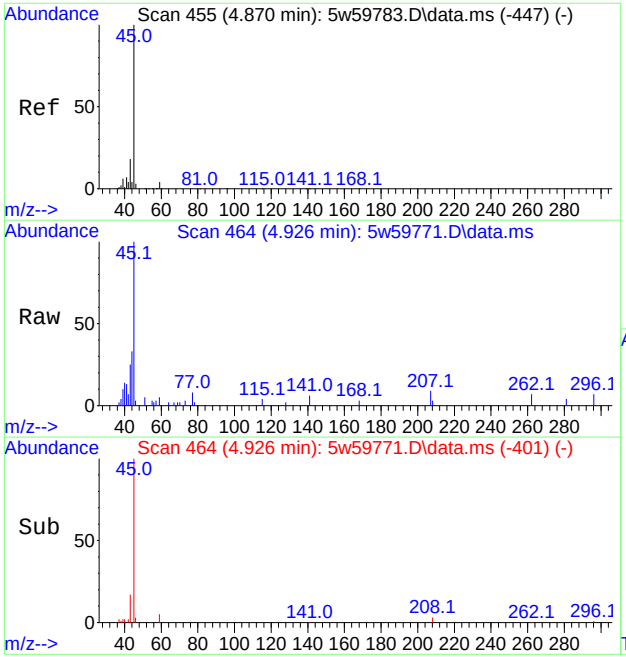


#21
TRICHLOROFLUOROMETHANE
Concen: 0.22 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:101 Resp: 26063

Ion	Ratio	Lower	Upper
101	100		
103	69.0	35.0	95.0
105	17.9	0.0	40.7

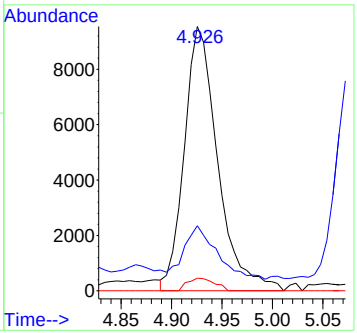


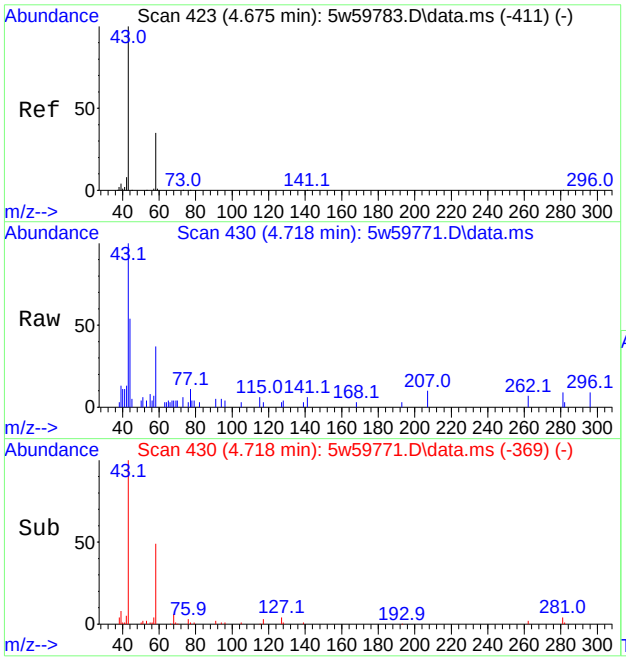


#22
ISOPROPYL ALCOHOL
Concen: 0.25 PPBV
RT: 4.926 min Scan# 464
Delta R.T. 0.056 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 22029

Ion	Ratio	Lower	Upper
45	100		
43	24.6	0.0	47.8
59	4.8	0.0	34.1

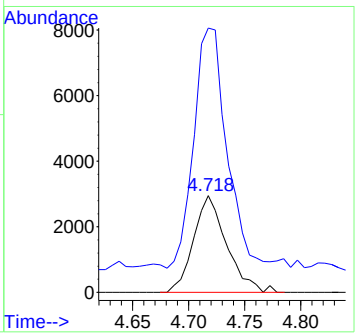


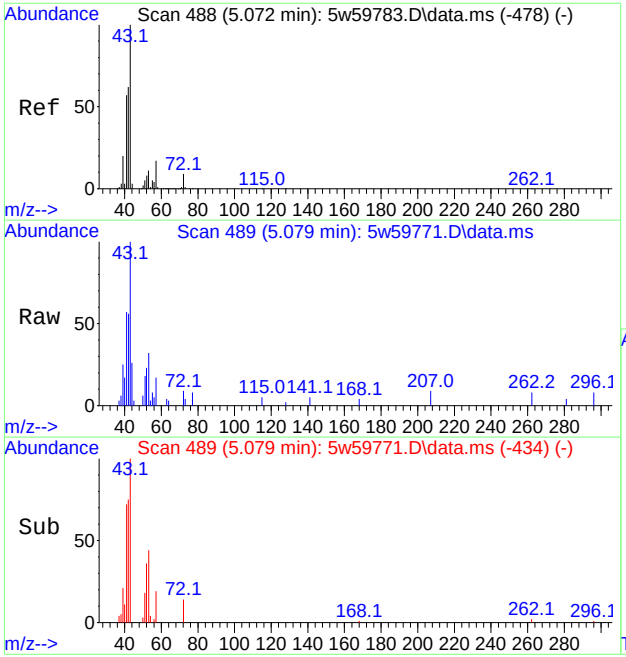


#23
ACETONE
Concen: 0.34 PPBV
RT: 4.718 min Scan# 430
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6066

Ion	Ratio	Lower	Upper
58	100		
43	283.0	252.3	312.3

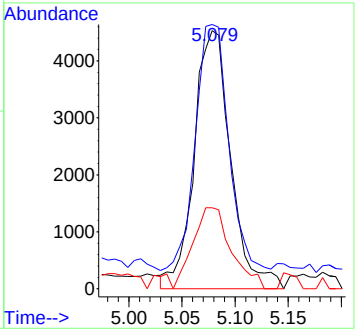


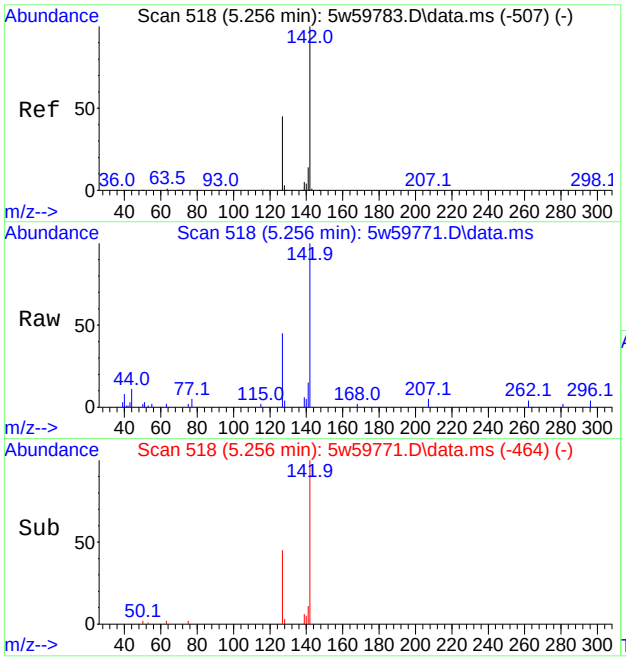


#24
PENTANE
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 42 Resp: 10859

Ion	Ratio	Lower	Upper
42	100		
41	86.3	62.3	122.3
57	32.8	0.0	57.7

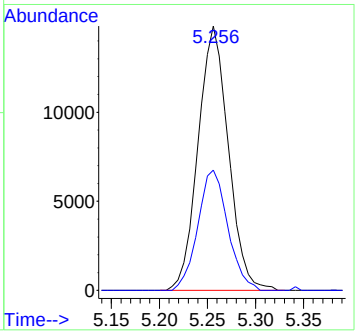


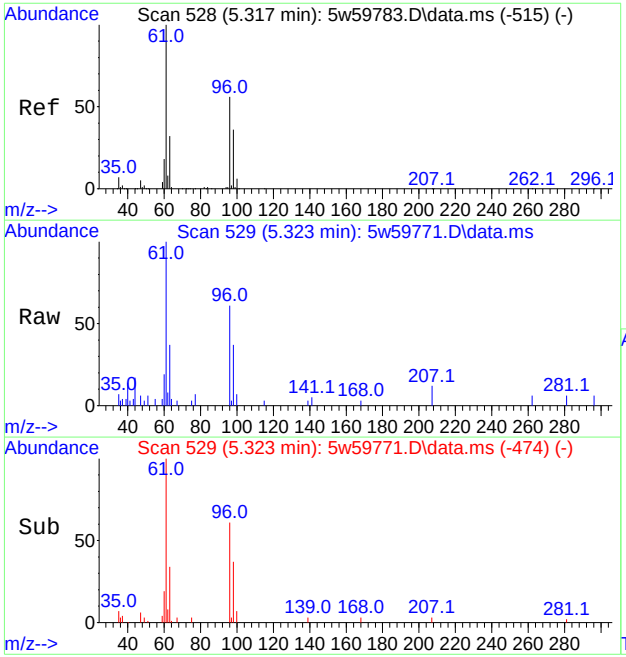


#25
IODOMETHANE
Concen: 0.22 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:142 Resp: 32697

Ion	Ratio	Lower	Upper
142	100		
127	45.0	16.0	76.0

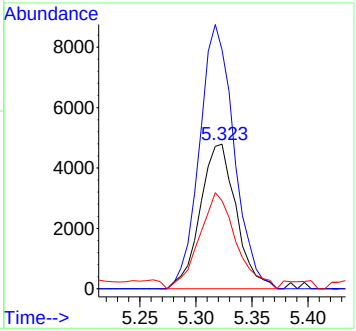


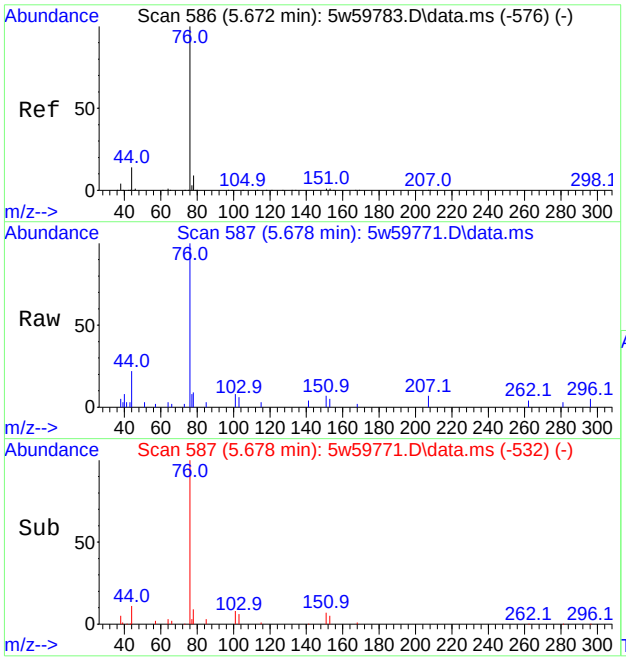


#26
1,1-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 10700

Ion	Ratio	Lower	Upper
96	100		
61	175.5	148.5	208.5
63	67.6	27.4	87.4

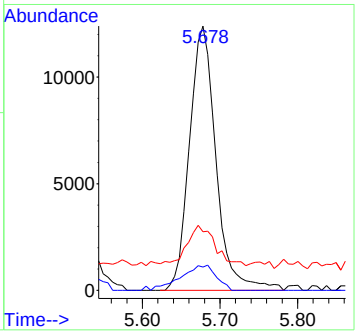


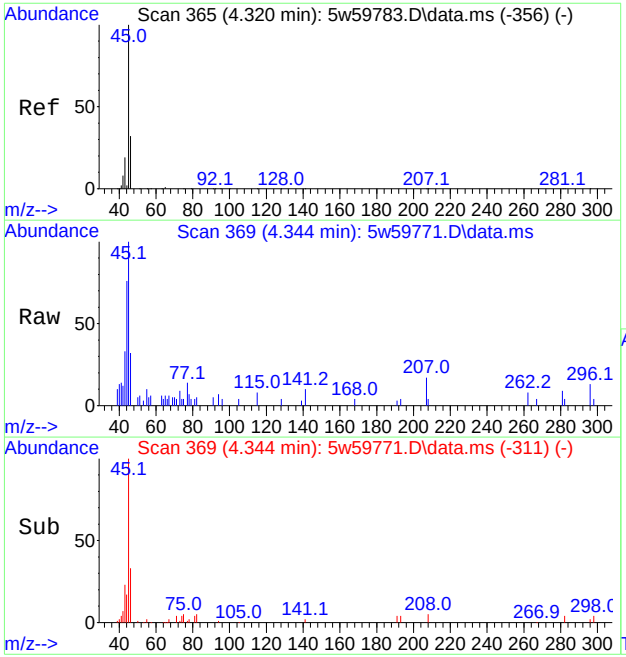


#27
CARBON DISULFIDE
Concen: 0.22 PPBV
RT: 5.678 min Scan# 587
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 29507

Ion	Ratio	Lower	Upper
76	100		
78	12.8	0.0	41.5
44	19.7	0.0	44.6

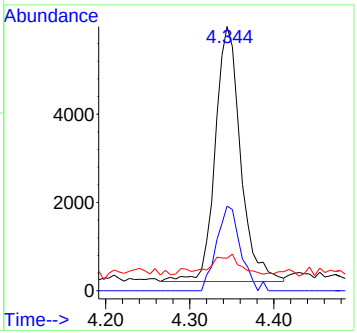


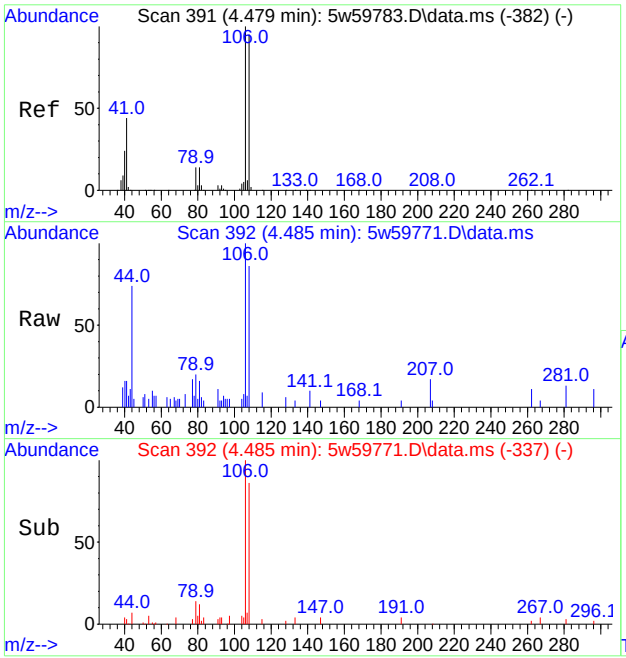


#28
ETHANOL
Concen: 0.73 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 12121

Ion	Ratio	Lower	Upper
45	100		
46	31.3	2.0	62.0
42	10.3	0.0	38.5

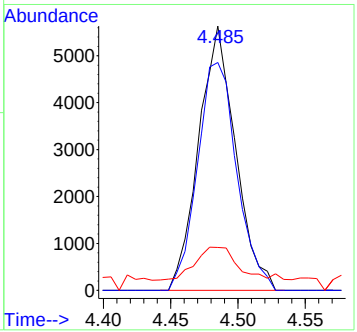


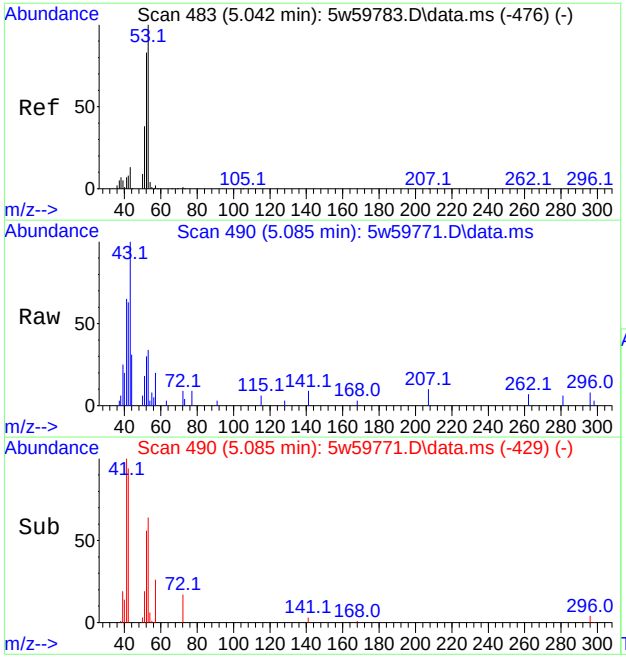


#29
BROMOETHENE
Concen: 0.22 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 10750

Ion	Ratio	Lower	Upper
106	100		
108	92.0	65.6	125.6
81	28.2	0.0	43.9

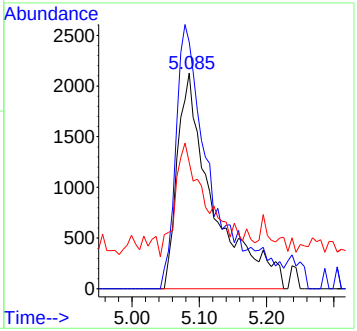


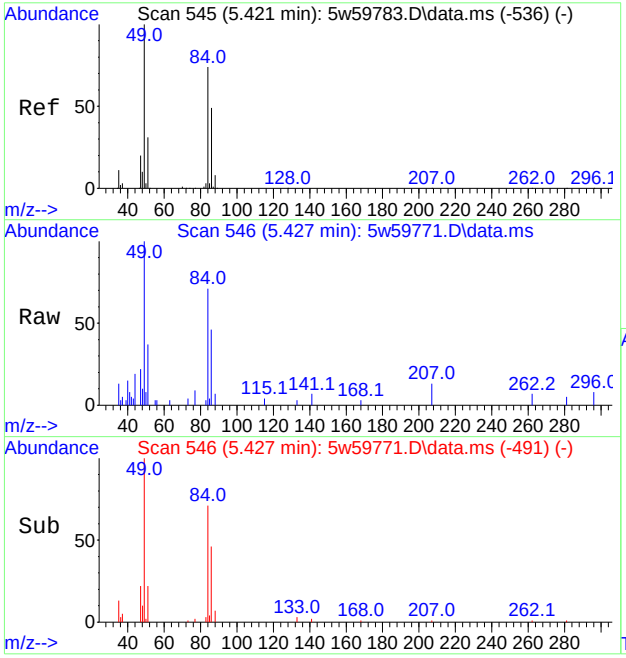


#30
ACRYLONITRILE
Concen: 0.26 PPBV
RT: 5.085 min Scan# 490
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 7876

Ion	Ratio	Lower	Upper
52	100		
53	128.6	85.8	159.4
51	50.1	32.3	60.1

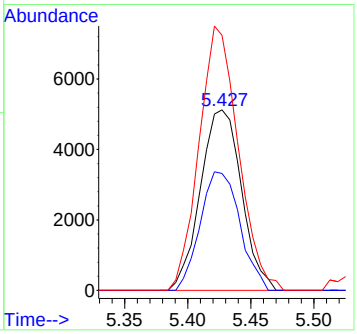


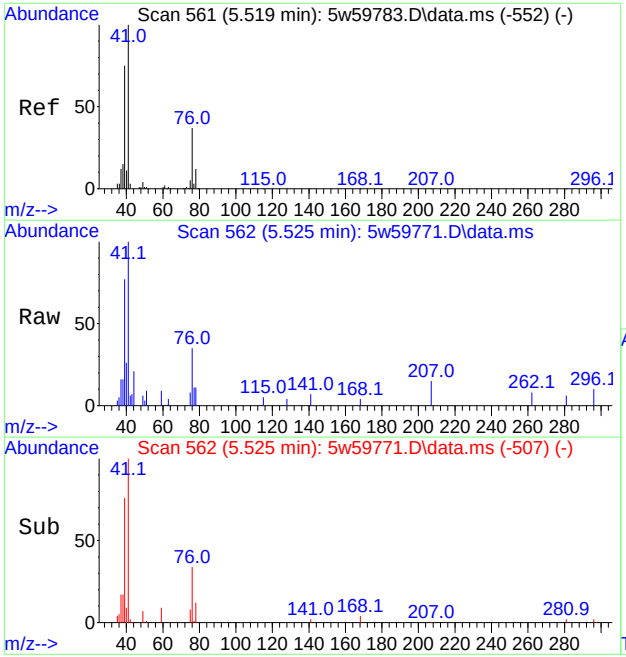


#31
METHYLENE CHLORIDE
Concen: 0.27 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 11602

Ion	Ratio	Lower	Upper
84	100		
86	63.2	35.2	95.2
49	139.5	105.3	165.3

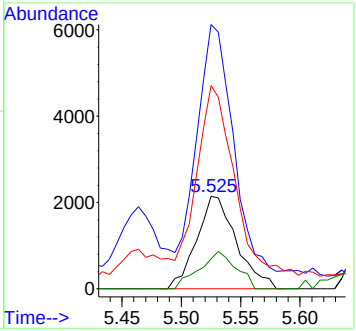


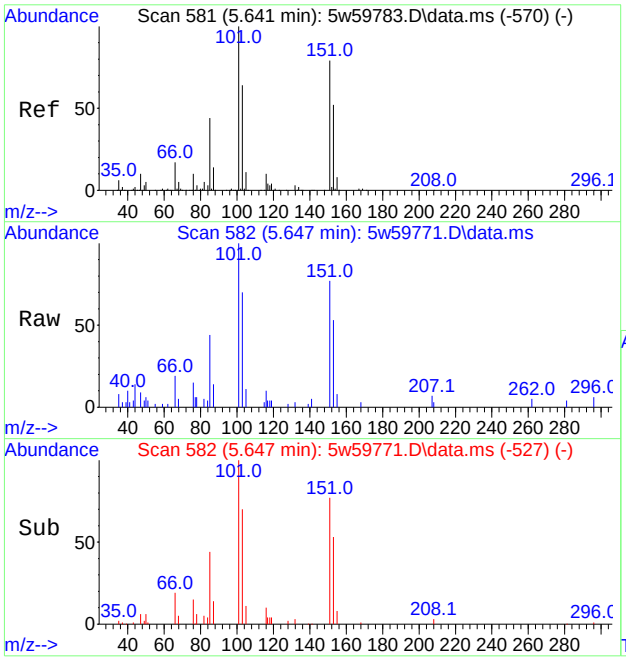


#32
3-CHLOROPROPENE
Concen: 0.22 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 4977

Ion	Ratio	Lower	Upper
76	100		
41	272.3	240.8	300.8
39	208.6	173.6	233.6
78	37.2	2.8	62.8

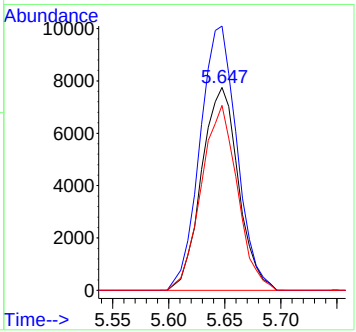


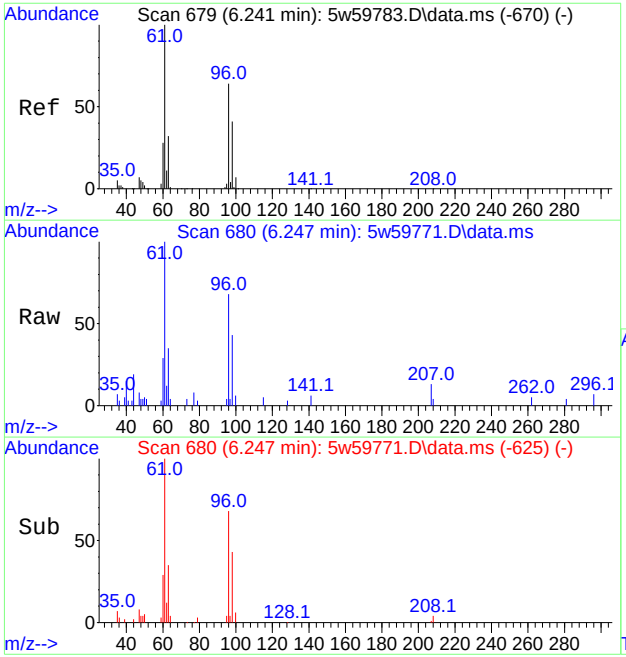


#33
FREON 113
Concen: 0.21 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:151 Resp: 17747

Ion	Ratio	Lower	Upper
151	100		
101	130.5	97.5	157.5
103	89.3	52.5	112.5

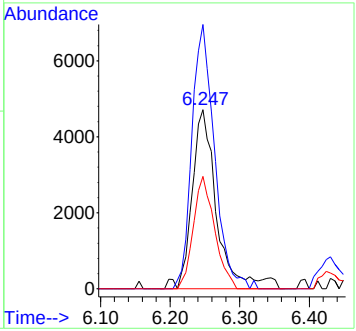


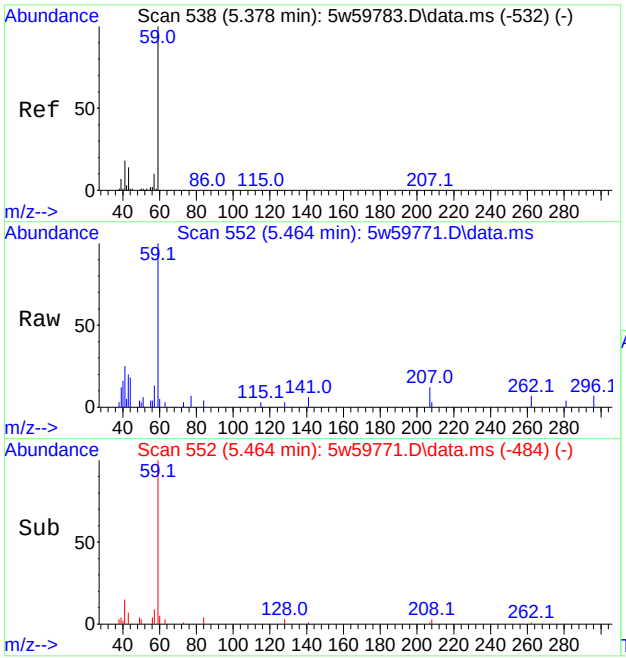


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 11590

Ion	Ratio	Lower	Upper
96	100		
61	135.4	126.4	186.4
98	54.1	34.1	94.1

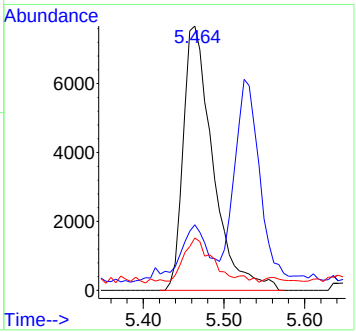


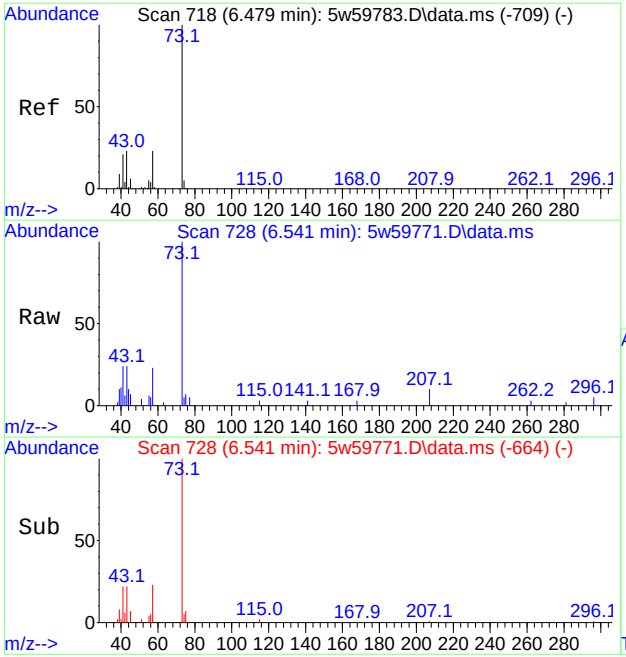


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.20 PPBV
RT: 5.464 min Scan# 552
Delta R.T. 0.086 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 19541

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	16.8	0.0	44.1

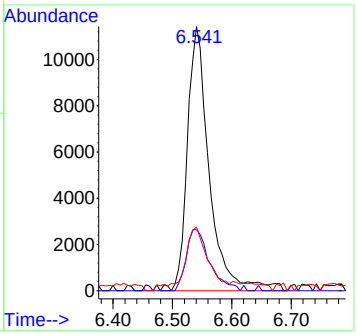


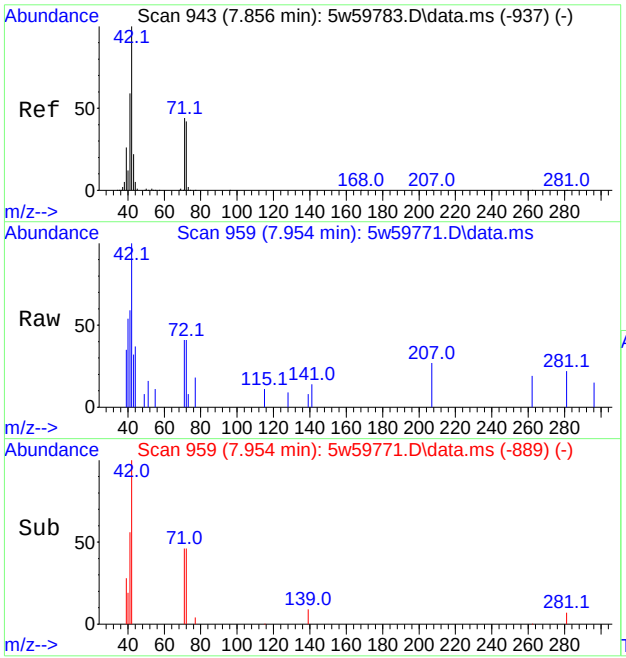


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.23 PPBV
RT: 6.541 min Scan# 728
Delta R.T. 0.062 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 73 Resp: 29335

Ion	Ratio	Lower	Upper
73	100		
57	24.5	0.0	53.1
41	30.1	0.0	50.6

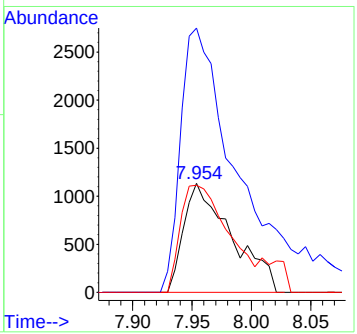


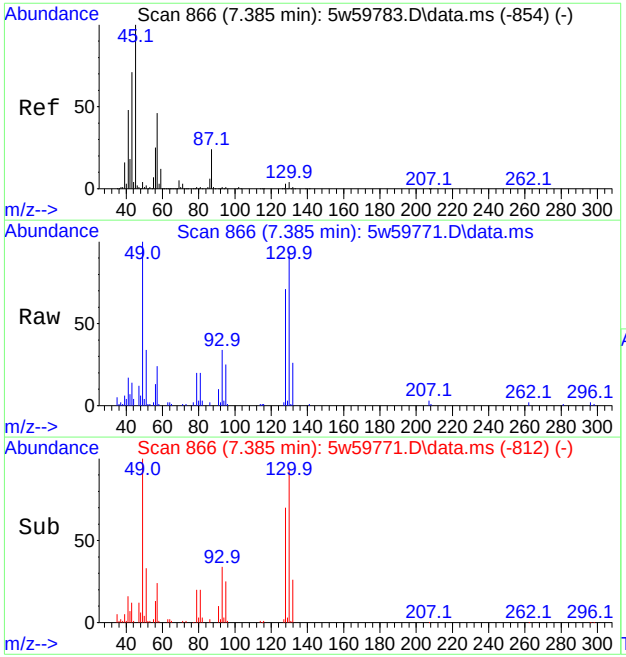


#37
TETRAHYDROFURAN
Concen: 0.16 PPBV
RT: 7.954 min Scan# 959
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 3172

Ion	Ratio	Lower	Upper
72	100		
42	320.8	202.4	262.4#
71	114.2	71.1	131.1

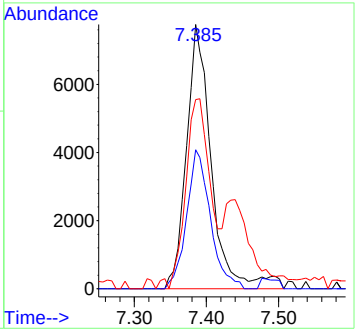


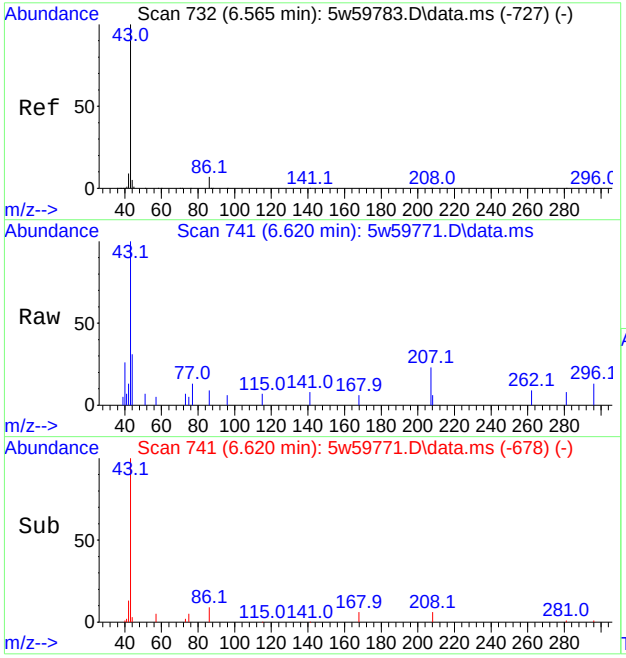


#38
HEXANE
Concen: 0.26 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18650

Ion	Ratio	Lower	Upper
57	100		
56	50.0	25.9	85.9
41	73.1	74.7	134.7#

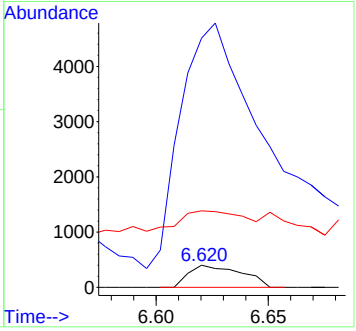


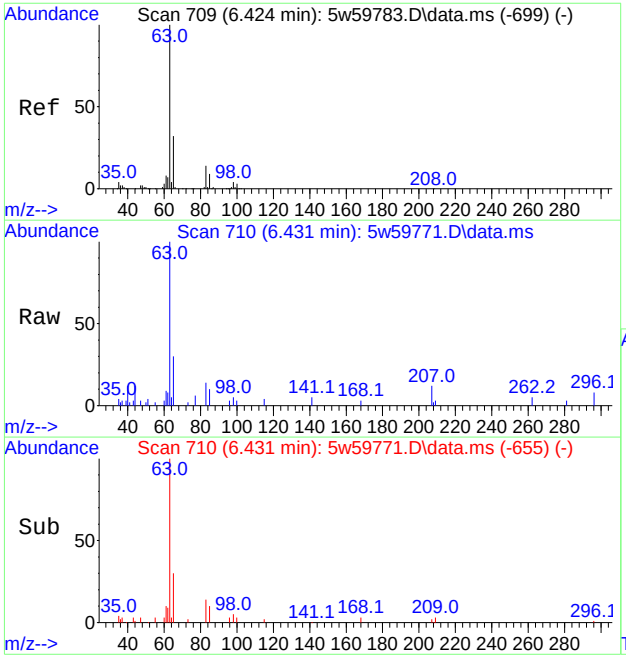


#39
VINYL ACETATE
Concen: 0.09 PPBV
RT: 6.620 min Scan# 741
Delta R.T. 0.055 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 86 Resp: 653

Ion	Ratio	Lower	Upper
86	100		
43	2548.1	1379.7	1439.7#
44	190.8	36.9	96.9#

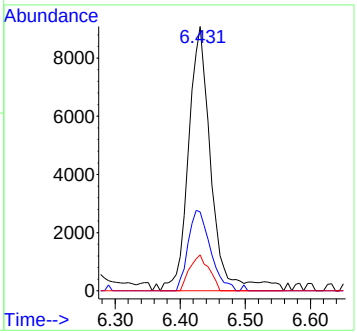


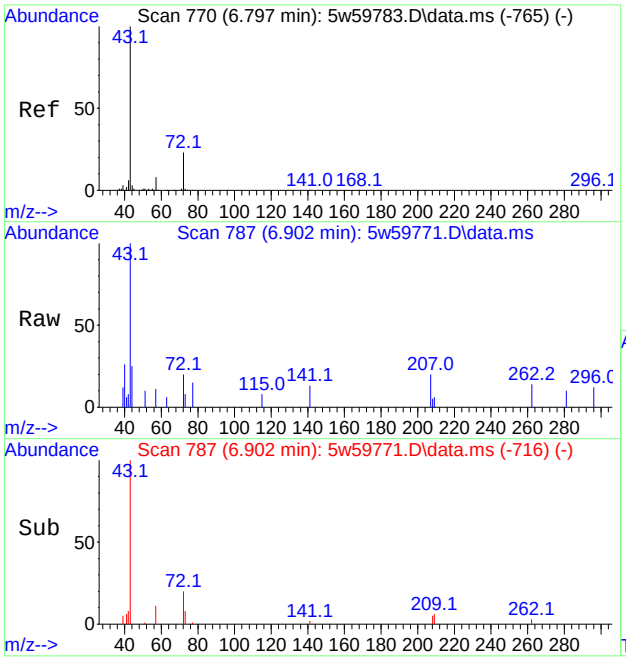


#40
1,1-DICHLOROETHANE
Concen: 0.23 PPBV
RT: 6.431 min Scan# 710
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 21909

Ion	Ratio	Lower	Upper
63	100		
65	30.0	1.7	61.7
83	11.7	0.0	43.5

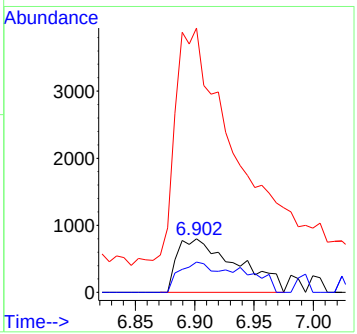


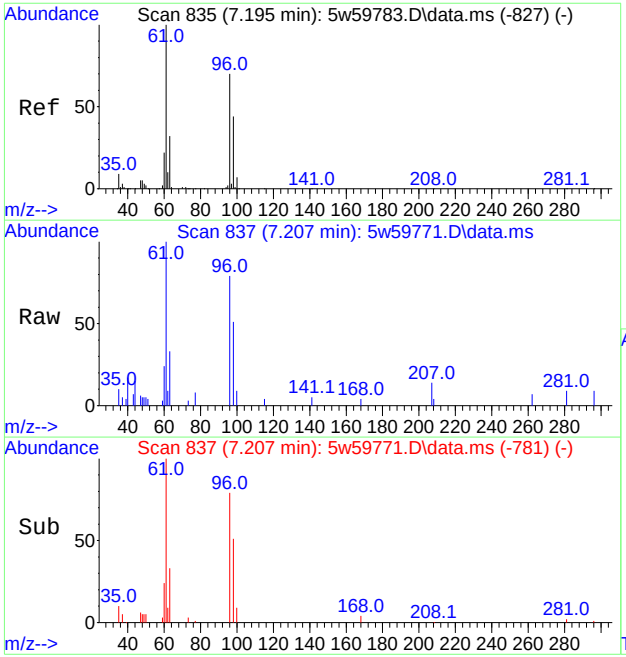


#41
METHYL ETHYL KETONE
Concen: 0.14 PPBV
RT: 6.902 min Scan# 787
Delta R.T. 0.105 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 2781

Ion	Ratio	Lower	Upper
72	100		
57	56.4	4.8	64.8
43	493.5	415.9	475.9#

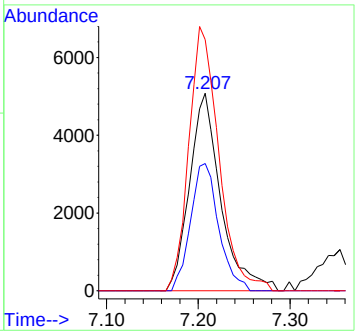


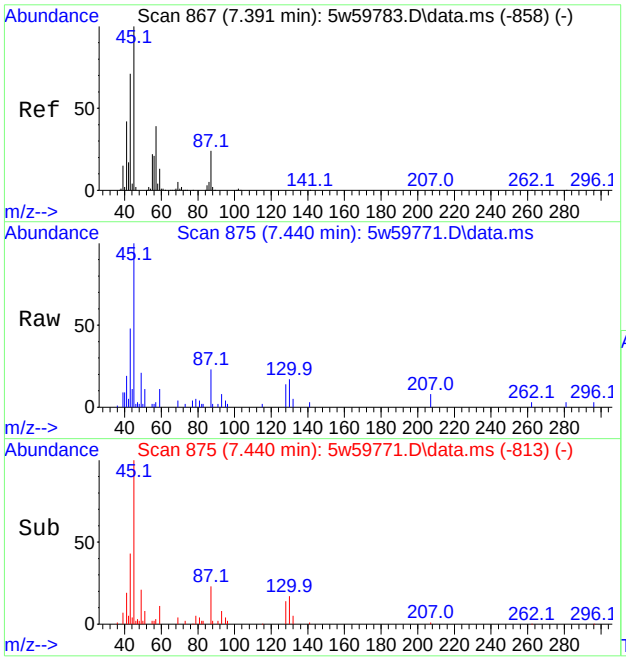


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 12027

Ion	Ratio	Lower	Upper
96	100		
98	58.2	34.0	94.0
61	128.8	111.5	171.5

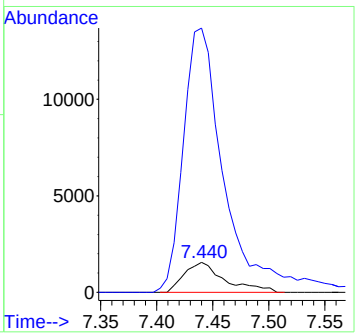


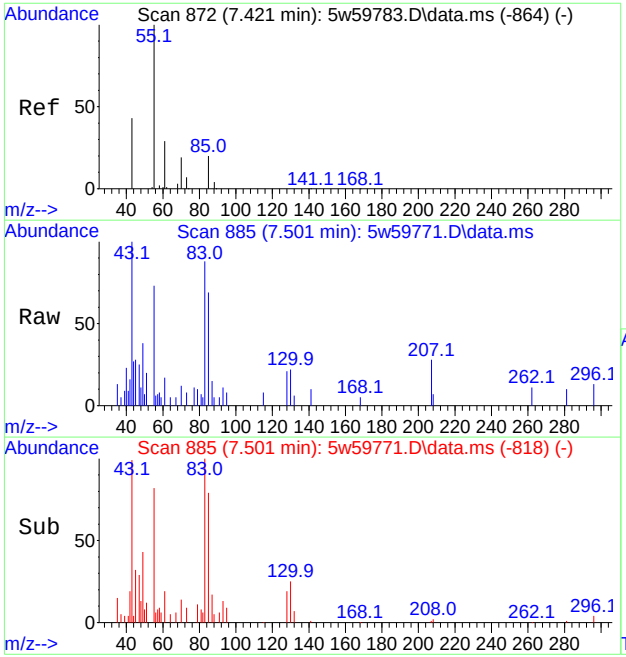


#43
DIISOPROPYL ETHER
Concen: 0.18 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.049 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 3909

Ion	Ratio	Lower	Upper
59	100		
45	923.5	720.9	780.9#

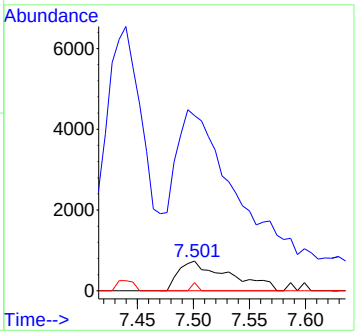


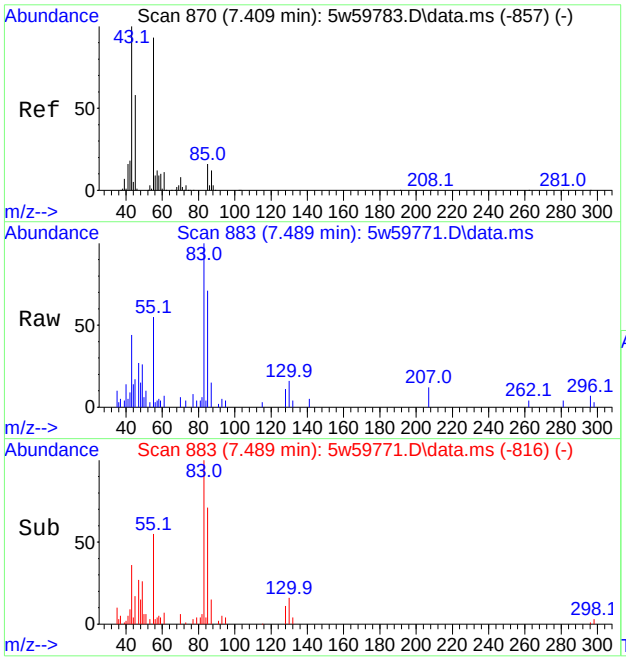


#44
ETHYL ACETATE
Concen: 0.15 PPBV m
RT: 7.501 min Scan# 885
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 61 Resp: 2309

Ion	Ratio	Lower	Upper
61	100		
43	613.1	560.5	620.5
88	3.2	4.5	64.5#

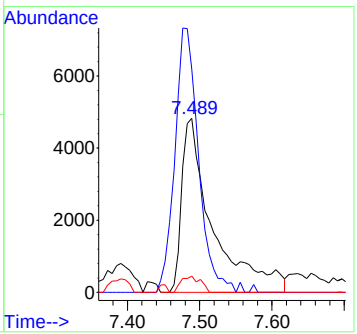


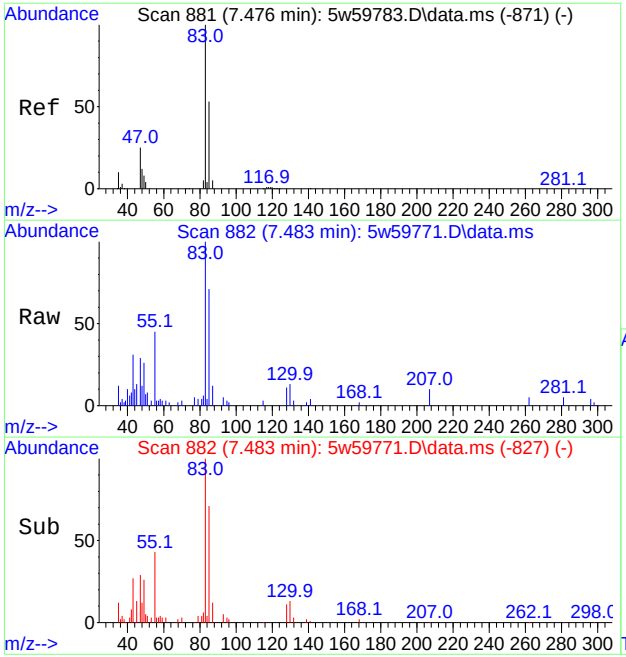


#45
METHYL ACRYLATE
Concen: 0.17 PPBV m
RT: 7.489 min Scan# 883
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 14366

Ion	Ratio	Lower	Upper
55	100		
85	116.3	10.9	20.3#
58	5.8	9.4	17.6#

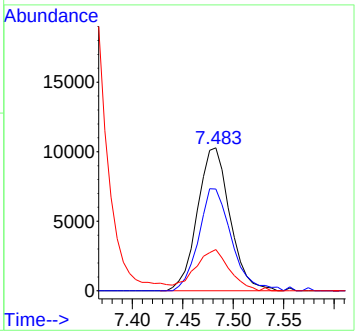


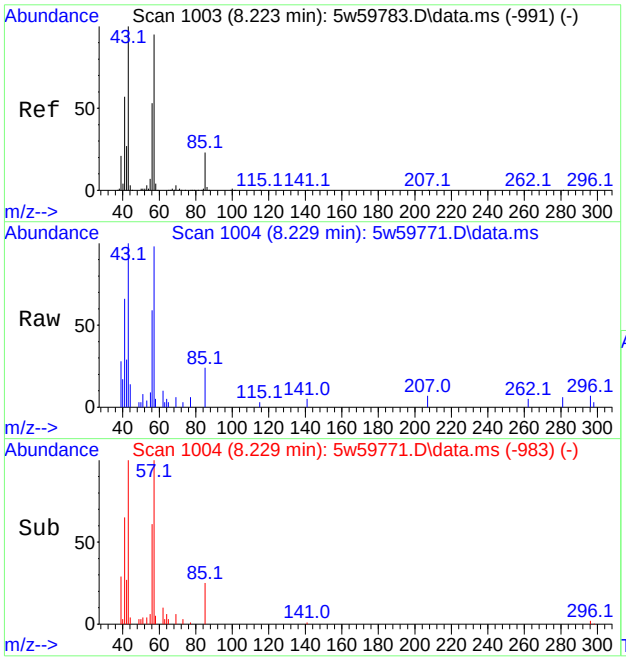


#46
CHLOROFORM
Concen: 0.22 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 23090

Ion	Ratio	Lower	Upper
83	100		
85	72.4	35.6	95.6
47	30.7	0.0	55.2

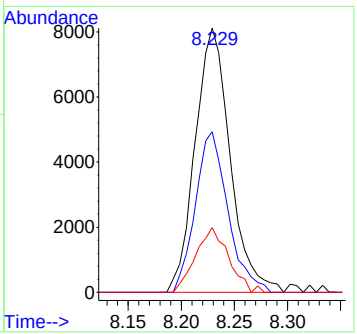


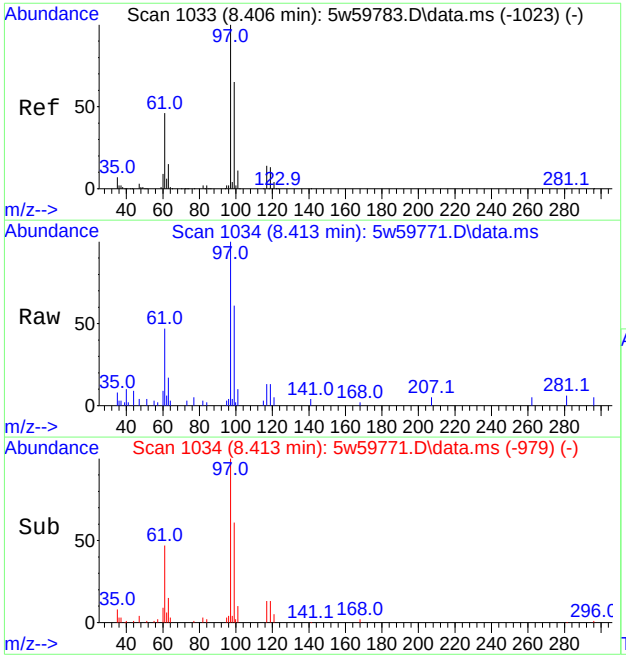


#47
2,4-DIMETHYLPENTANE
Concen: 0.22 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18643

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.1	0.0	53.8

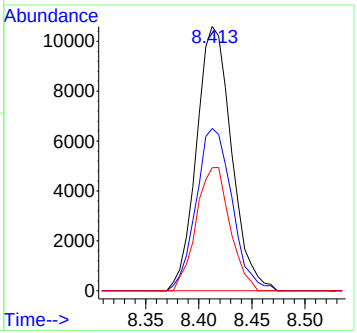


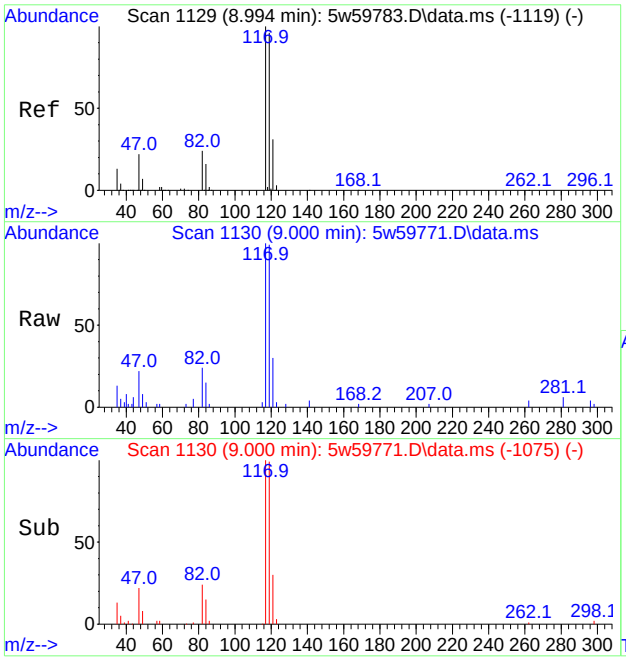


#48
1,1,1-TRICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 97 Resp: 24304

Ion	Ratio	Lower	Upper
97	100		
99	62.9	34.8	94.8
61	44.9	15.8	75.8

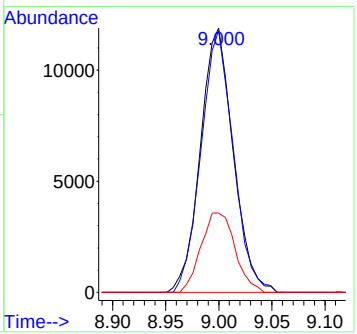


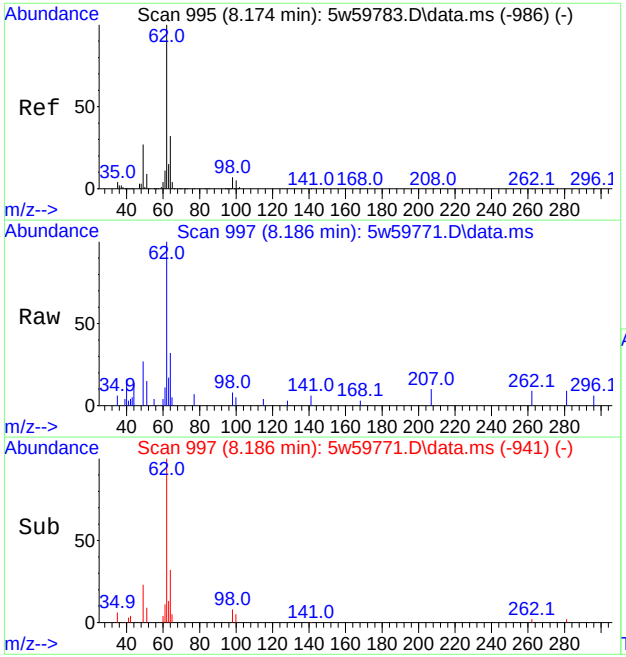


#49
CARBON TETRACHLORIDE
Concen: 0.21 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 25552

Ion	Ratio	Lower	Upper
117	100		
119	97.5	66.9	126.9
121	31.2	1.3	61.3

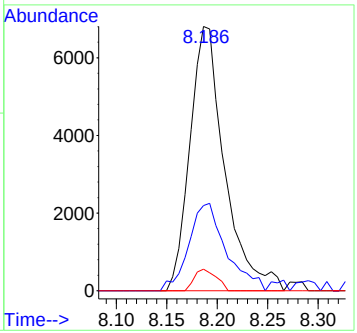


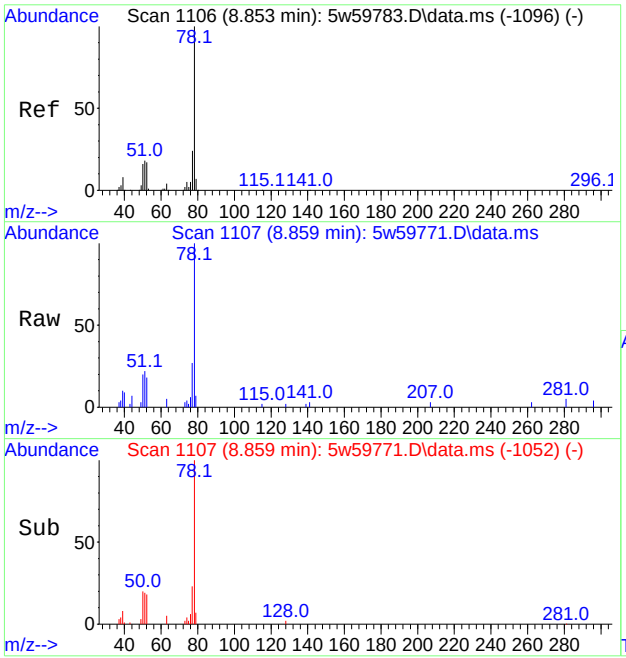


#50
1,2-DICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 16304

Ion	Ratio	Lower	Upper
62	100		
64	35.5	2.3	62.3
98	5.2	0.0	36.9

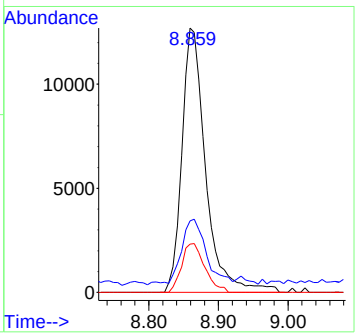


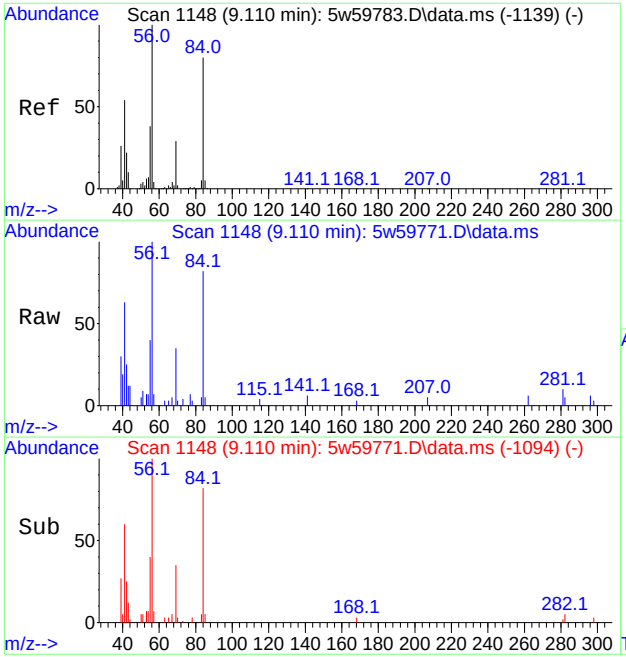


#52
BENZENE
Concen: 0.21 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 78 Resp: 30072

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	18.0	0.0	46.9

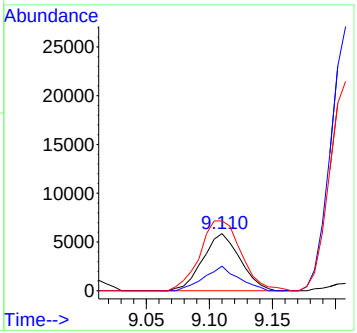


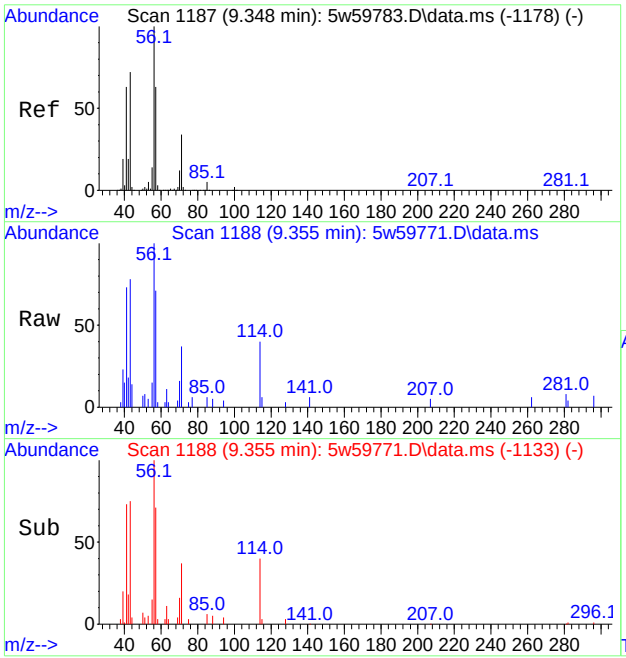


#53
CYCLOHEXANE
Concen: 0.20 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 12037

Ion	Ratio	Lower	Upper
84	100		
69	39.7	6.9	66.9
56	135.6	98.2	158.2

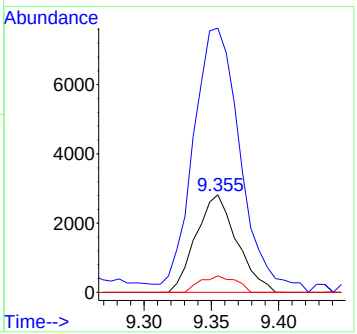


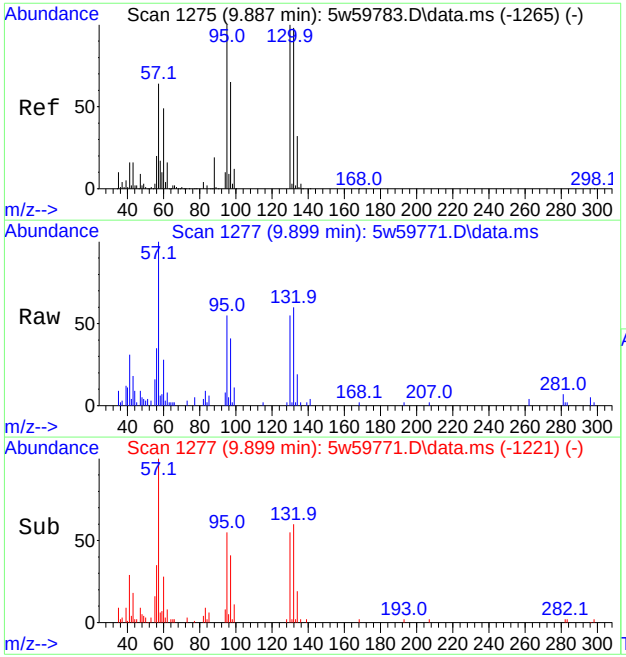


#54
2,3-DIMETHYLPENTANE
Concen: 0.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 71 Resp: 5961

Ion	Ratio	Lower	Upper
71	100		
56	313.5	264.6	324.6
85	14.8	0.0	45.3

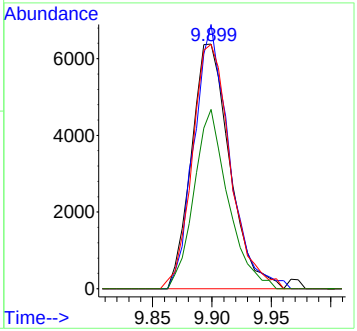


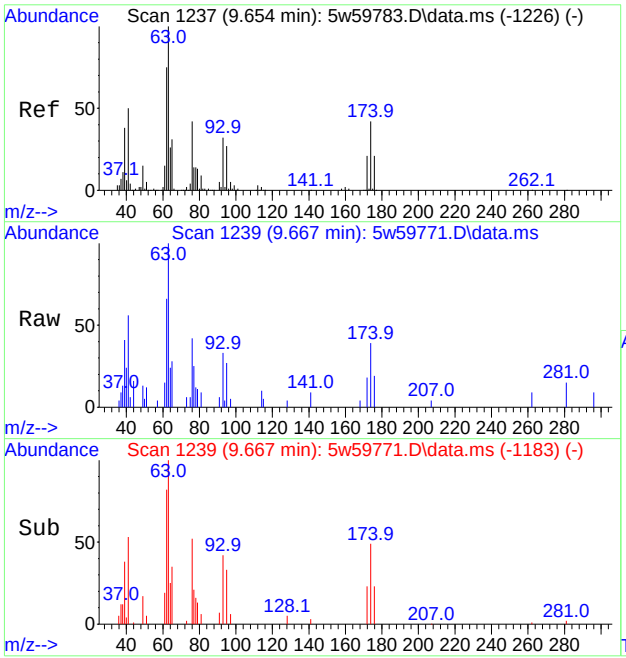


#55
TRICHLOROETHYLENE
Concen: 0.19 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 95 Resp: 14290

Ion	Ratio	Lower	Upper
95	100		
132	99.8	69.0	129.0
130	99.4	70.6	130.6
97	65.4	34.6	94.6

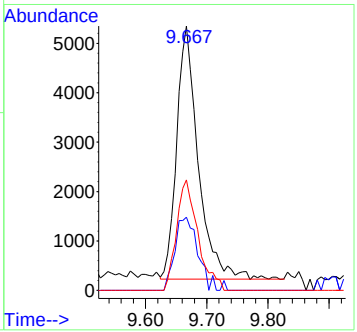


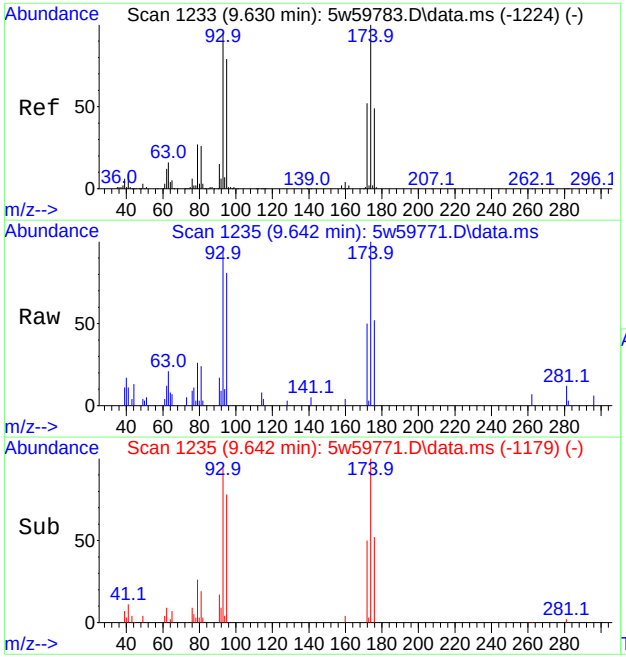


#56
1,2-DICHLOROPROPANE
Concen: 0.20 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 12562

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	43.0	11.5	71.5

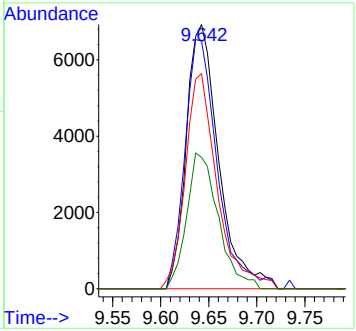


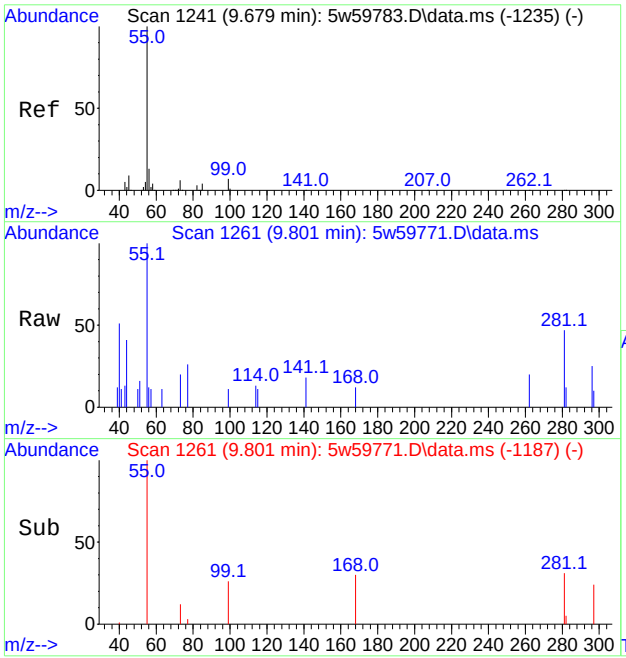


#57
DIBROMOMETHANE
Concen: 0.20 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:174 Resp: 16323

Ion	Ratio	Lower	Upper
174	100		
93	94.4	65.0	120.6
95	79.7	54.5	101.1
172	50.0	36.3	67.5

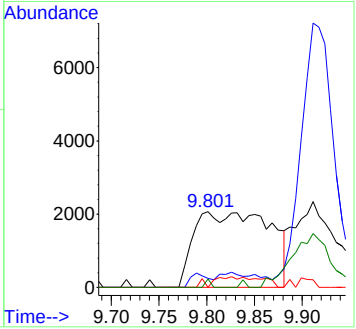


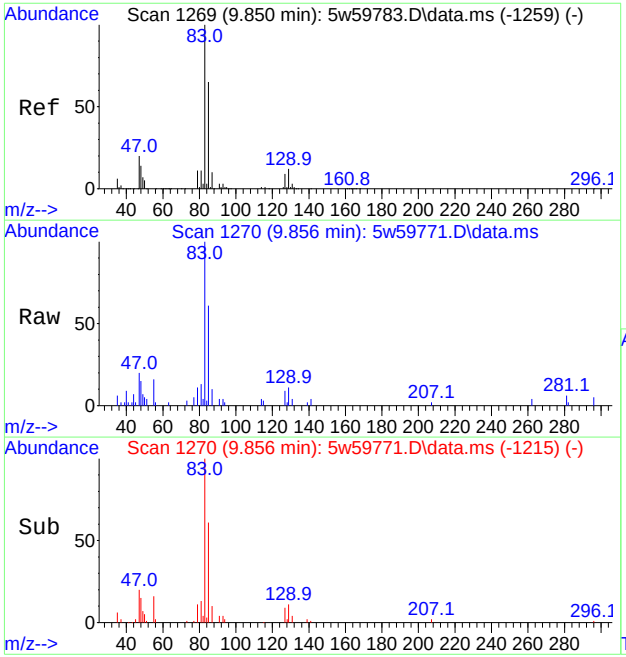


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV m
RT: 9.801 min Scan# 1261
Delta R.T. 0.122 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 11494

Ion	Ratio	Lower	Upper
55	100		
56	0.0	8.6	16.0#
45	0.0	6.6	12.2#
99	0.0	6.4	12.0#

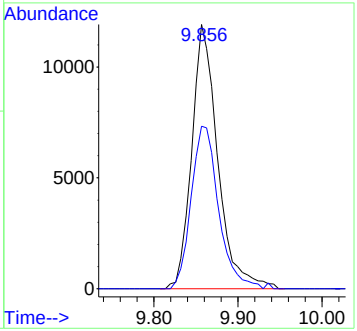


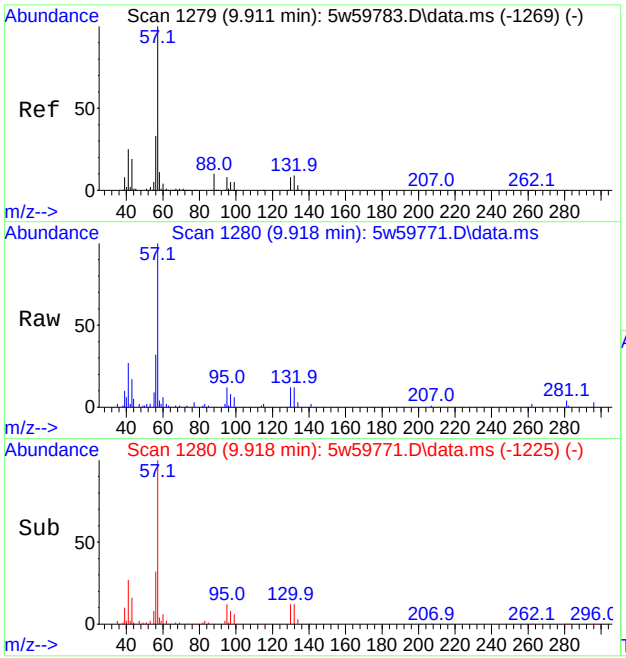


#59
BROMODICHLOROMETHANE
Concen: 0.20 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25637

Ion	Ratio	Lower	Upper
83	100		
85	64.9	33.4	93.4

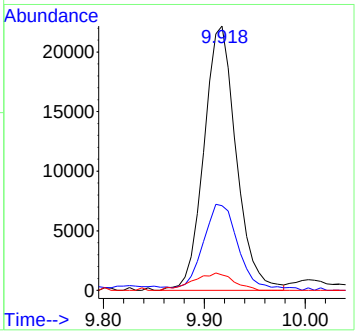


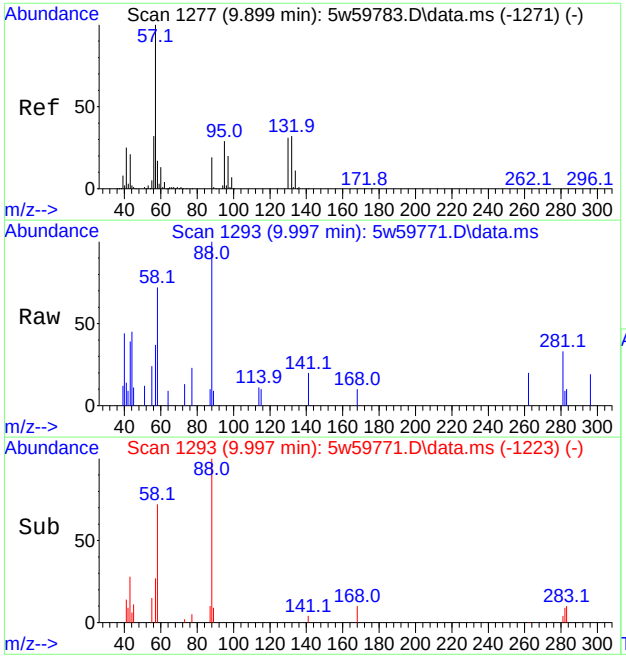


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 49437

Ion	Ratio	Lower	Upper
57	100		
56	35.7	2.5	62.5
99	8.3	0.0	37.3

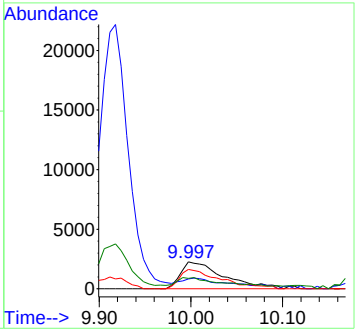


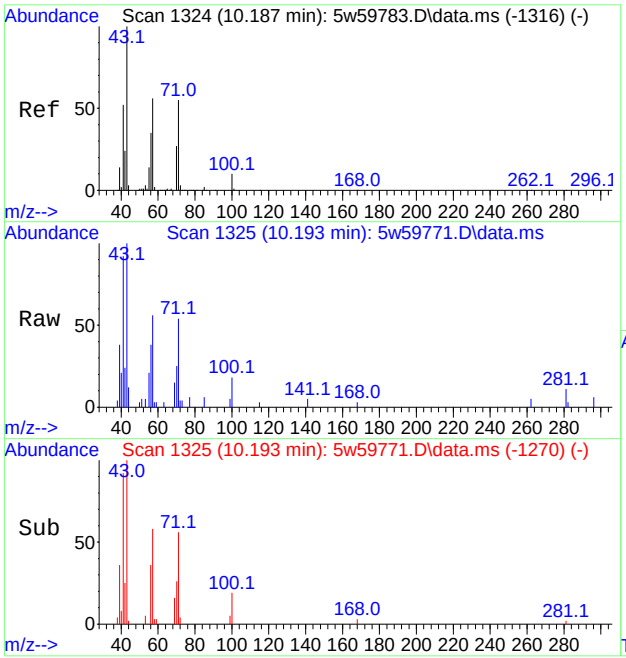


#61
1,4-DIOXANE
Concen: 0.22 PPBV
RT: 9.997 min Scan# 1293
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 88 Resp: 7396

Ion	Ratio	Lower	Upper
88	100		
57	36.9	494.2	554.2#
58	72.0	58.9	118.9
43	38.6	78.3	138.3#

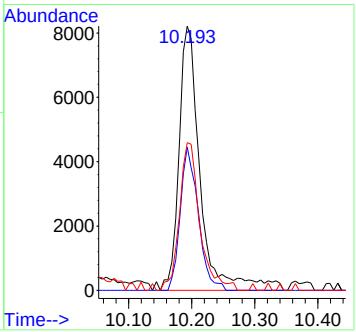


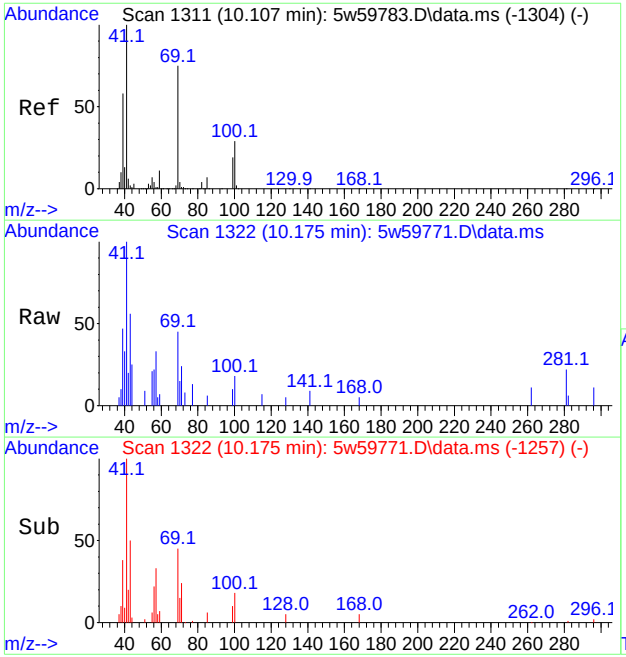


#62
HEPTANE
Concen: 0.24 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 19280

Ion	Ratio	Lower	Upper
43	100		
71	45.8	24.5	84.5
57	53.5	26.2	86.2

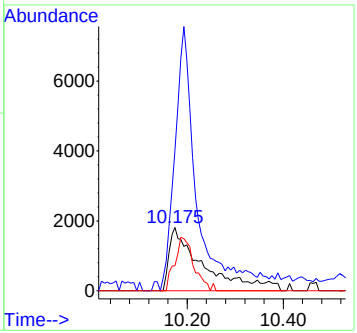


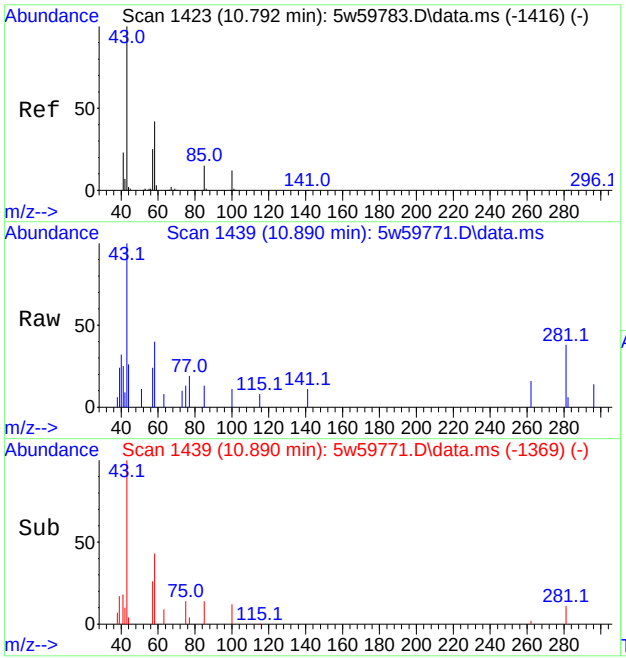


#63
METHYL METHACRYLATE
Concen: 0.18 PPBV
RT: 10.175 min Scan# 1322
Delta R.T. 0.068 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 8860

Ion	Ratio	Lower	Upper
69	100		
41	286.0	95.3	155.3#
100	47.7	6.3	66.3

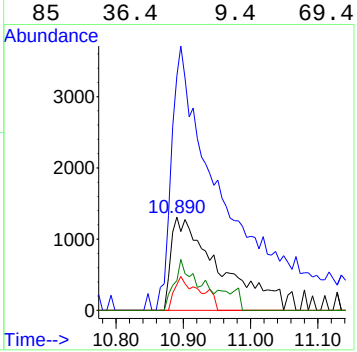


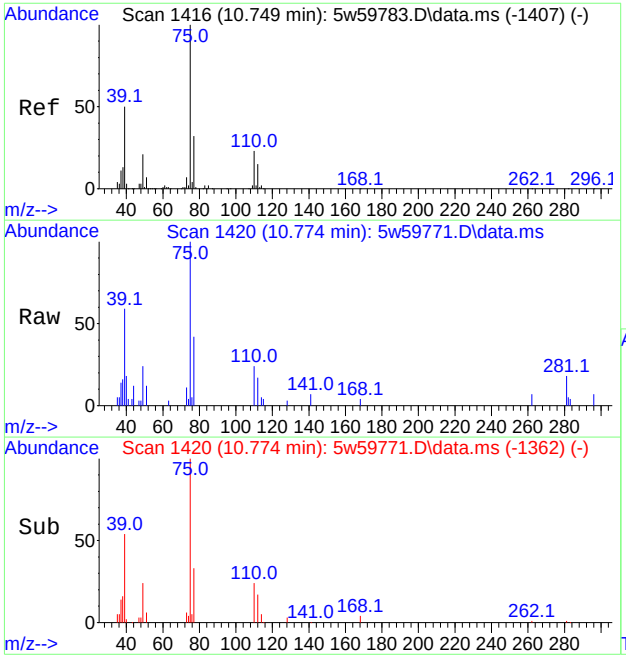


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 10.890 min Scan# 1439
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6548

Ion	Ratio	Lower	Upper
58	100		
43	299.8	209.2	269.2#
100	19.0	0.0	58.8
85	36.4	9.4	69.4

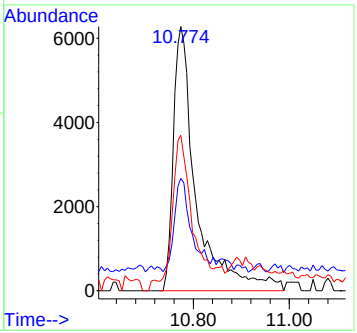


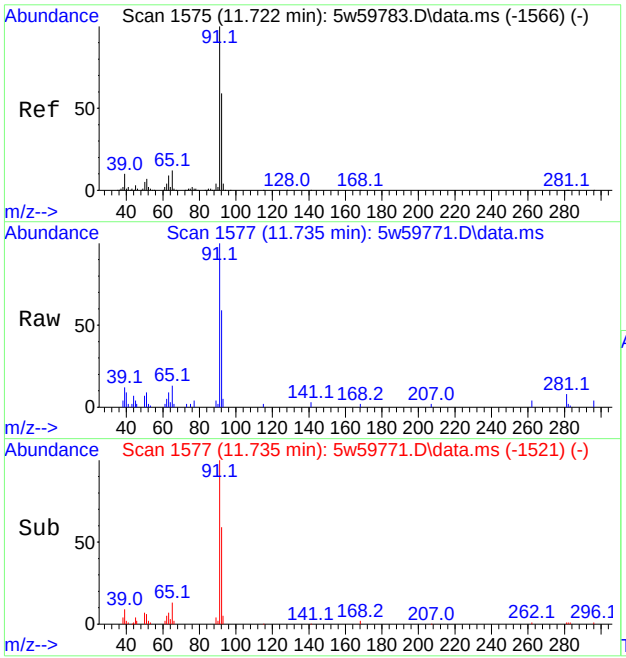


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 10.774 min Scan# 1420
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 20672

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	57.0	34.3	94.3

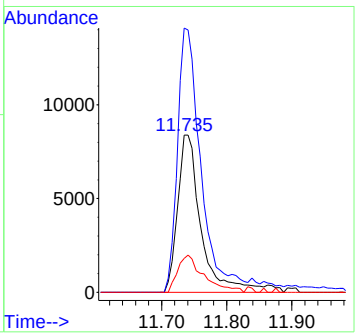


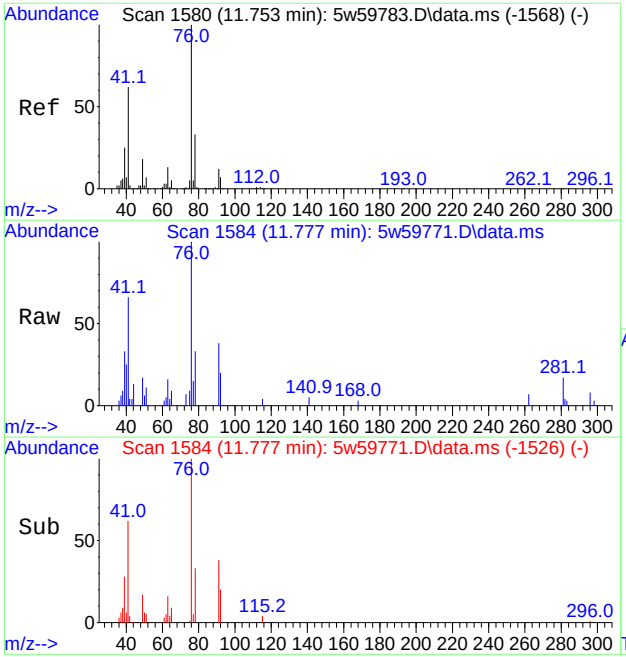


#66
TOLUENE
Concen: 0.19 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 92 Resp: 21289

Ion	Ratio	Lower	Upper
92	100		
91	180.0	140.1	200.1
65	25.9	0.0	53.1

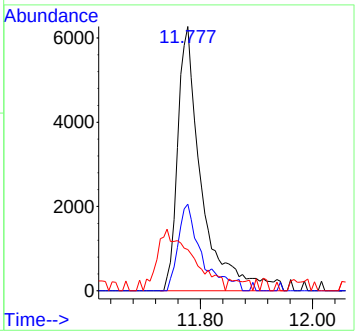


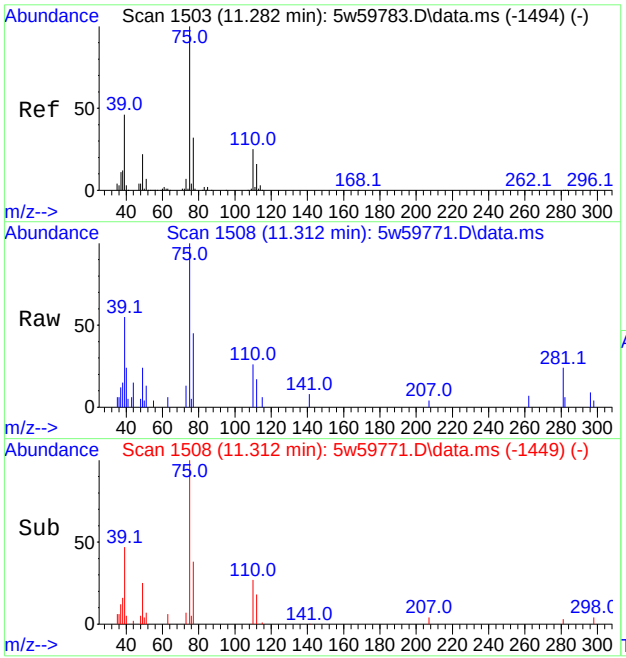


#67
1,3-DICHLOROPROPANE
Concen: 0.21 PPBV m
RT: 11.777 min Scan# 1584
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 18562

Ion	Ratio	Lower	Upper
76	100		
78	32.2	23.2	43.0
63	9.4	7.1	13.1

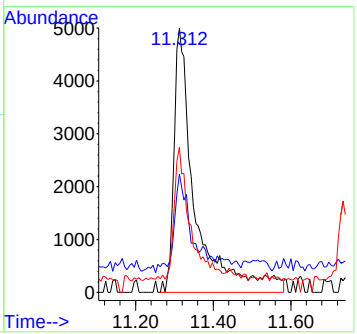


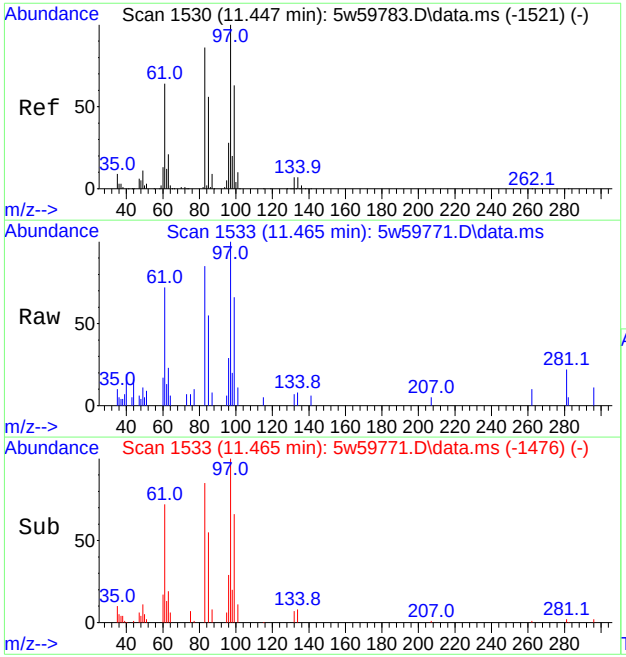


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 11.312 min Scan# 1508
Delta R.T. 0.030 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 19068

Ion	Ratio	Lower	Upper
75	100		
77	35.2	1.6	61.6
39	50.1	16.1	76.1

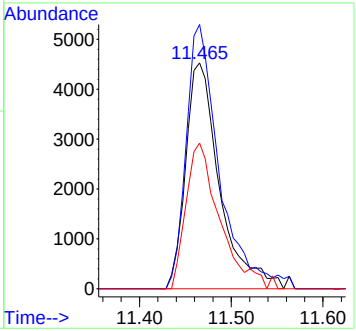


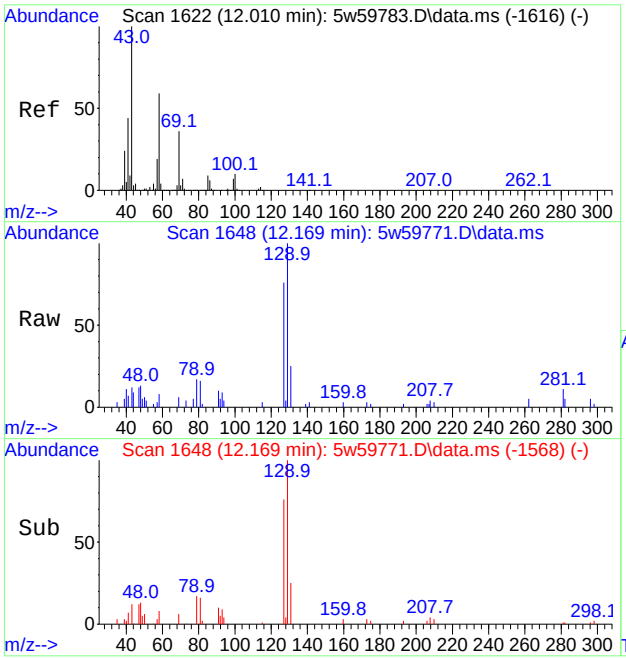


#69
1,1,2-TRICHLOROETHANE
Concen: 0.19 PPBV
RT: 11.465 min Scan# 1533
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 11660

Ion	Ratio	Lower	Upper
83	100		
97	114.8	86.3	146.3
85	64.7	35.3	95.3

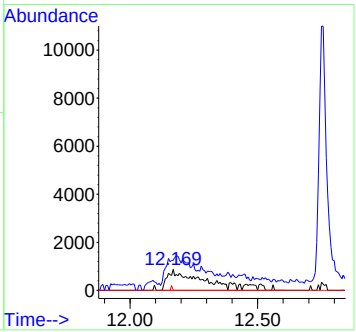


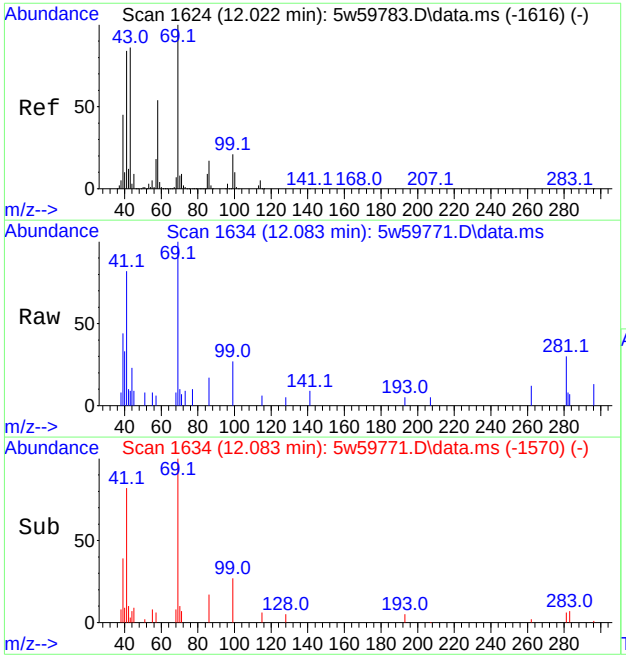


#71
2-HEXANONE
Concen: 0.16 PPBV m
RT: 12.169 min Scan# 1648
Delta R.T. 0.159 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 9038

Ion	Ratio	Lower	Upper
58	100		
43	104.3	137.2	197.2#
100	0.0	0.0	46.9

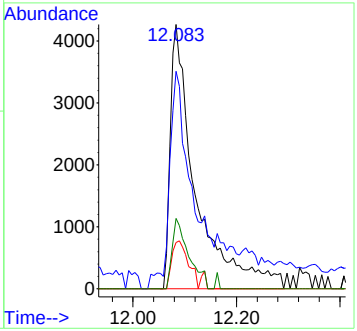


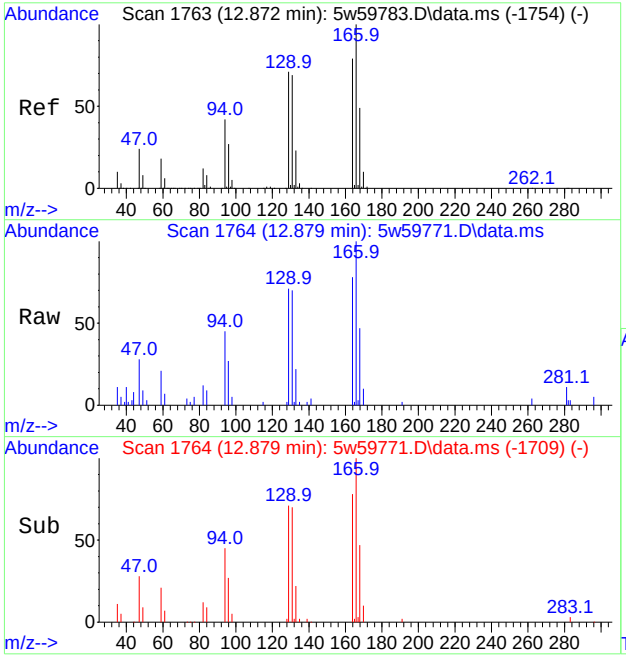


#72
ETHYL METHACRYLATE
Concen: 0.19 PPBV
RT: 12.083 min Scan# 1634
Delta R.T. 0.061 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 14602

Ion	Ratio	Lower	Upper
69	100		
41	106.4	64.0	119.0
86	11.8	12.0	22.4#
99	17.3	15.0	27.8

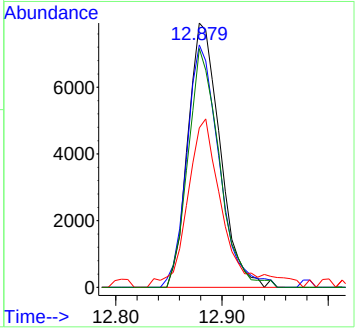


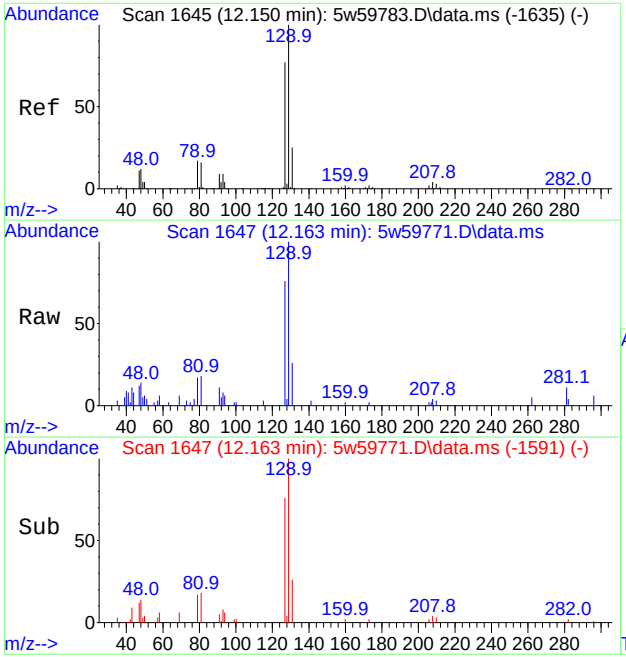


#73
TETRACHLOROETHYLENE
Concen: 0.23 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:164 Resp: 16678

Ion	Ratio	Lower	Upper
164	100		
129	92.5	59.7	119.7
168	69.8	32.2	92.2
131	88.1	57.8	117.8

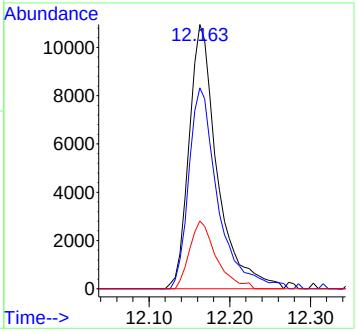


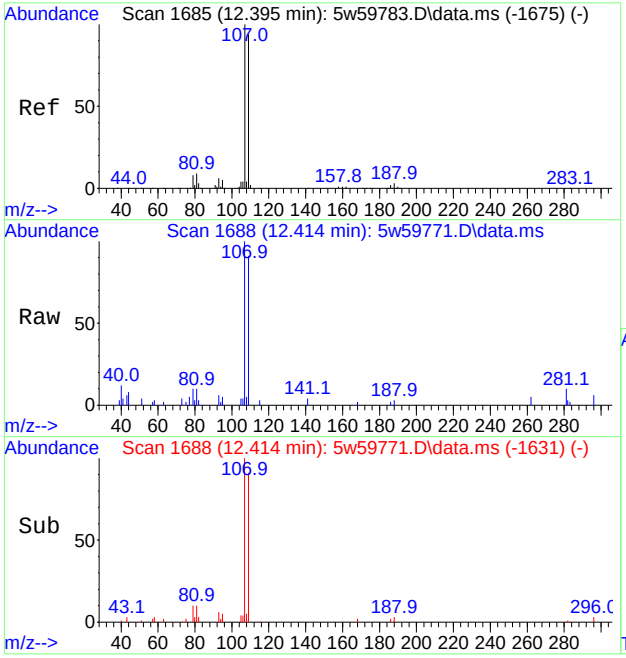


#74
DIBROMOCHLOROMETHANE
Concen: 0.21 PPBV
RT: 12.163 min Scan# 1647
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:129 Resp: 26574

Ion	Ratio	Lower	Upper
129	100		
127	78.2	47.1	107.1
131	24.1	0.0	54.5

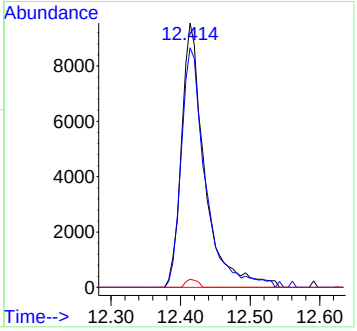


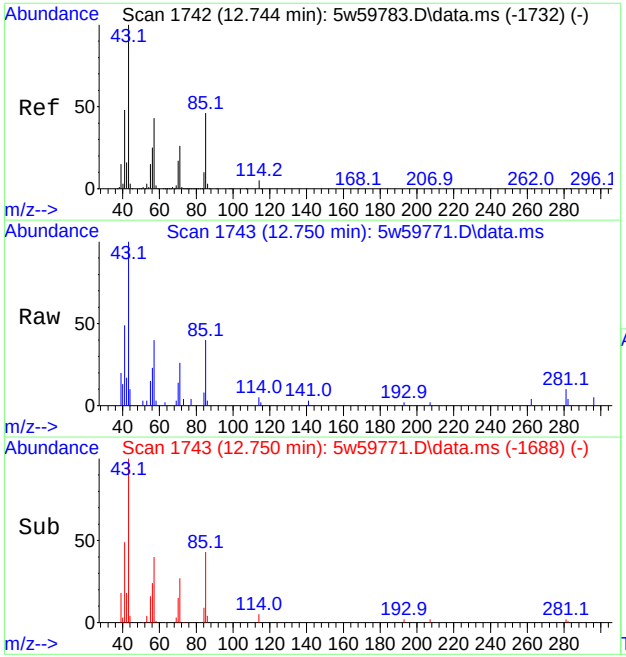


#75
1,2-DIBROMOETHANE
Concen: 0.22 PPBV
RT: 12.414 min Scan# 1688
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:107 Resp: 22241

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	1.6	0.0	32.8

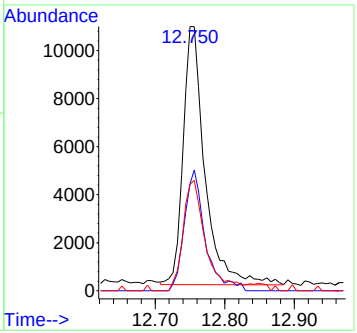


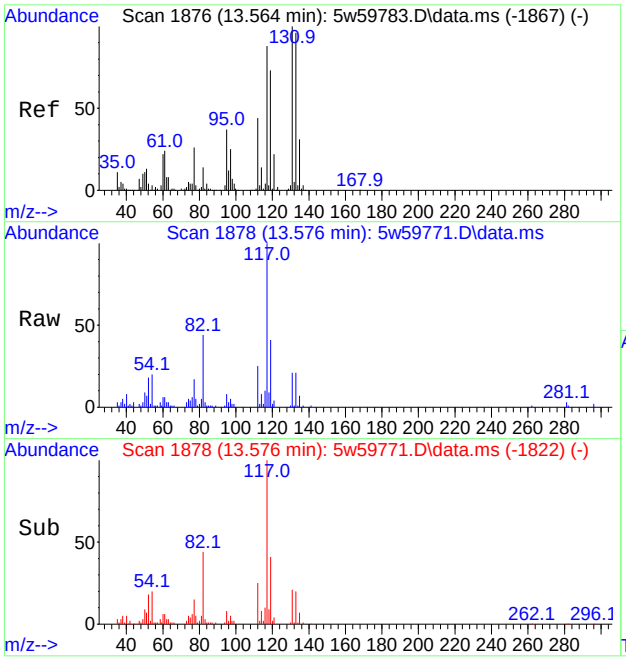


#76
OCTANE
Concen: 0.25 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 23489

Ion	Ratio	Lower	Upper
43	100		
85	44.5	14.6	74.6
57	46.5	13.7	73.7

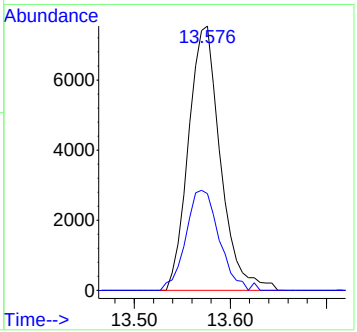


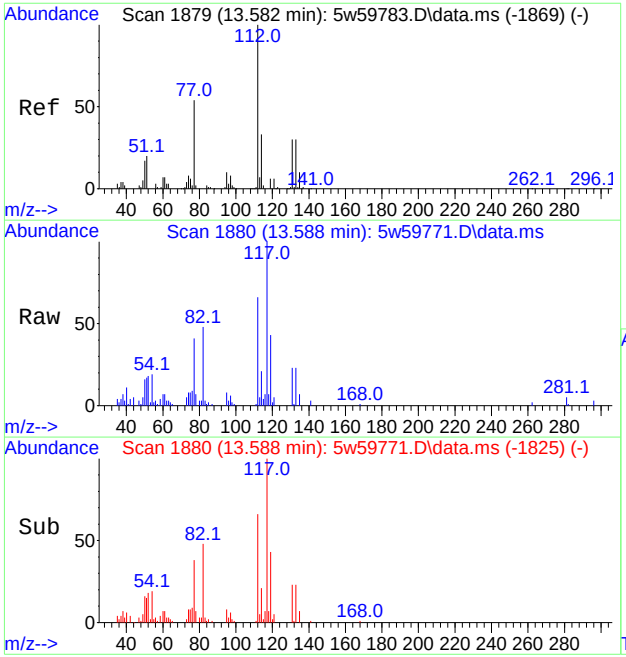


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.21 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:131 Resp: 17410

Ion	Ratio	Lower	Upper
131	100		
95	39.7	6.5	66.5

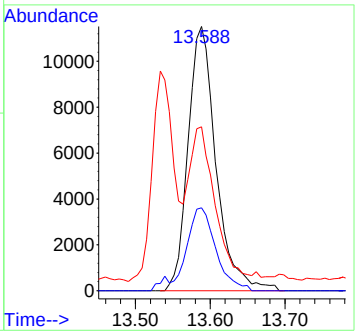


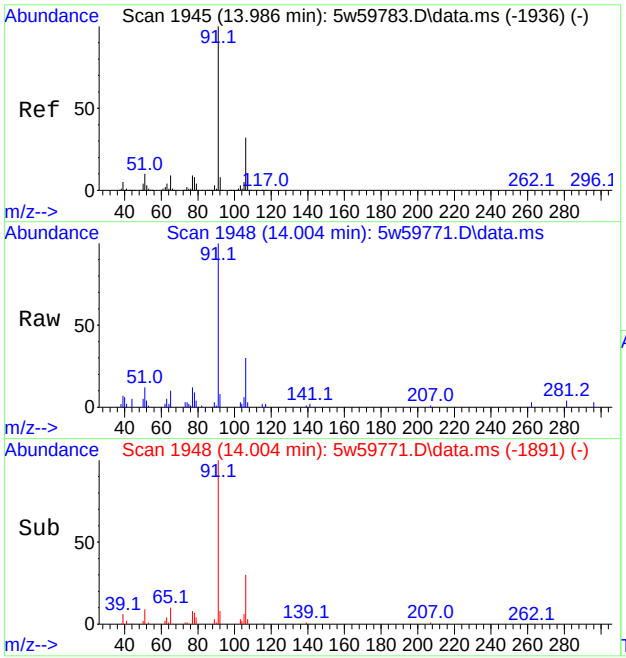


#78
CHLOROBENZENE
Concen: 0.23 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:112 Resp: 29927

Ion	Ratio	Lower	Upper
112	100		
114	32.2	2.6	62.6
77	55.6	25.4	85.4

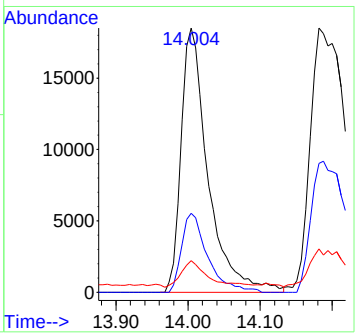


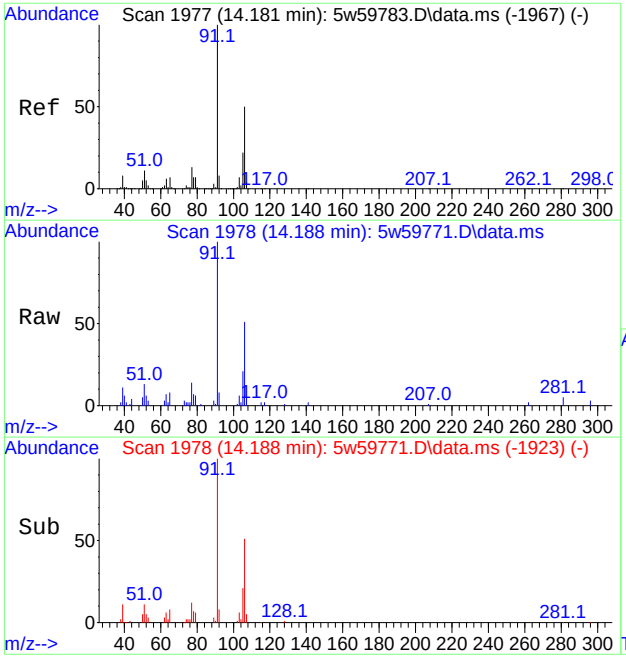


#79
ETHYLBENZENE
Concen: 0.24 PPBV
RT: 14.004 min Scan# 1948
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 48060

Ion	Ratio	Lower	Upper
91	100		
106	28.9	1.3	61.3
77	10.2	0.0	38.6

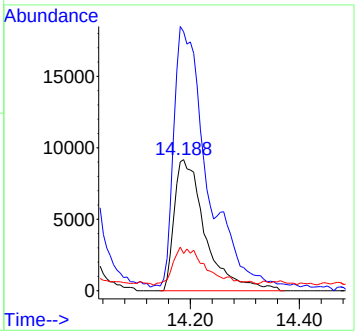


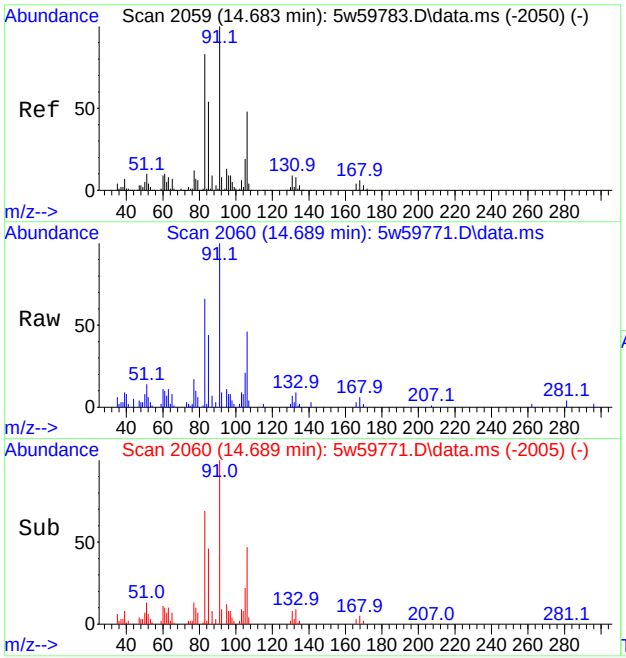


#80
m,p-XYLENE
Concen: 0.45 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 36141

Ion	Ratio	Lower	Upper
106	100		
91	197.2	171.0	231.0
77	28.5	0.0	56.7

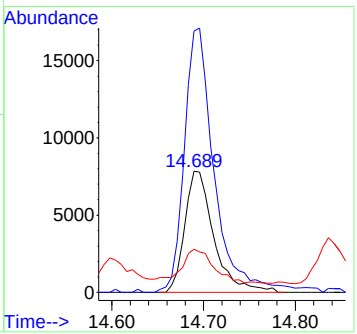


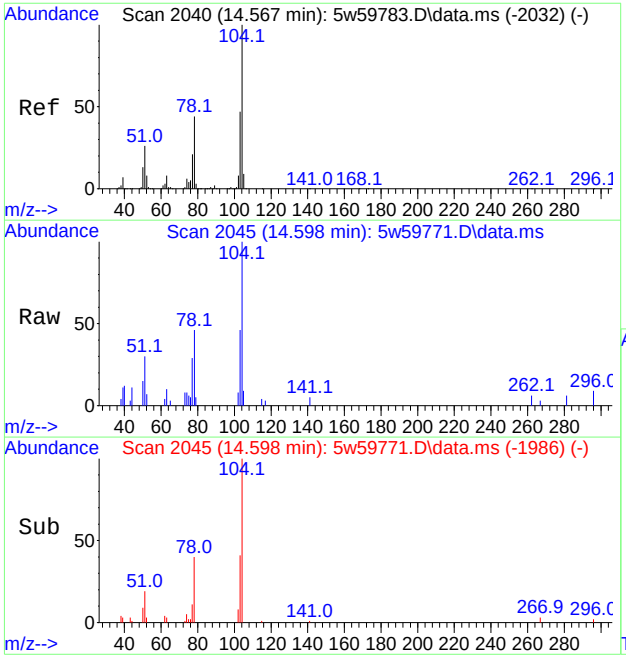


#81
o-XYLENE
Concen: 0.23 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 17278

Ion	Ratio	Lower	Upper
106	100		
91	226.2	181.6	241.6
77	34.4	0.0	56.6

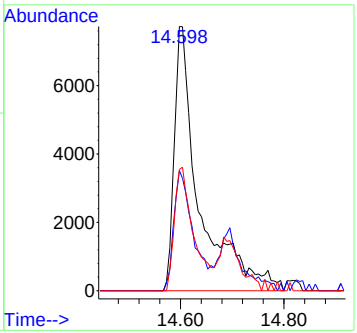


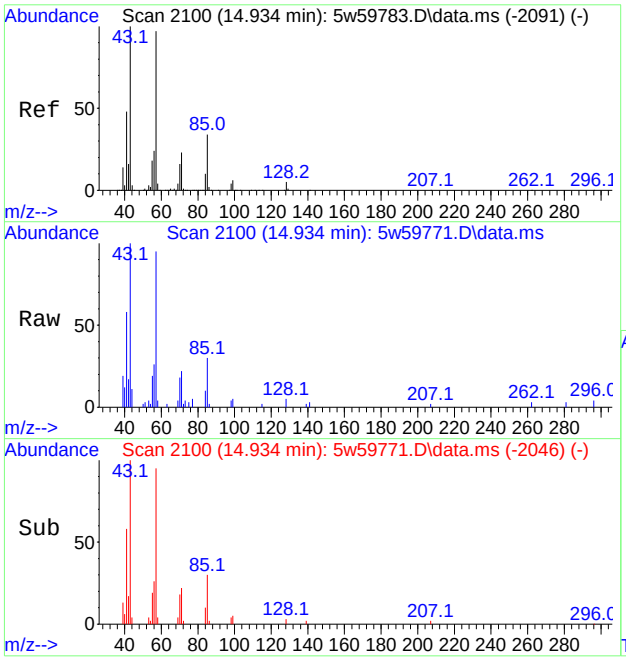


#82
STYRENE
Concen: 0.21 PPBV
RT: 14.598 min Scan# 2045
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:104 Resp: 26105

Ion	Ratio	Lower	Upper
104	100		
78	36.1	13.3	73.3
103	36.3	17.2	77.2

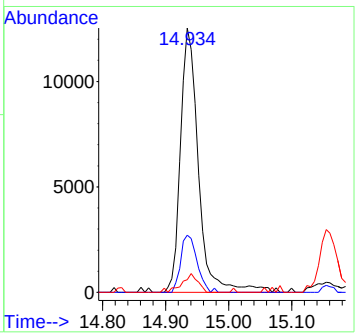


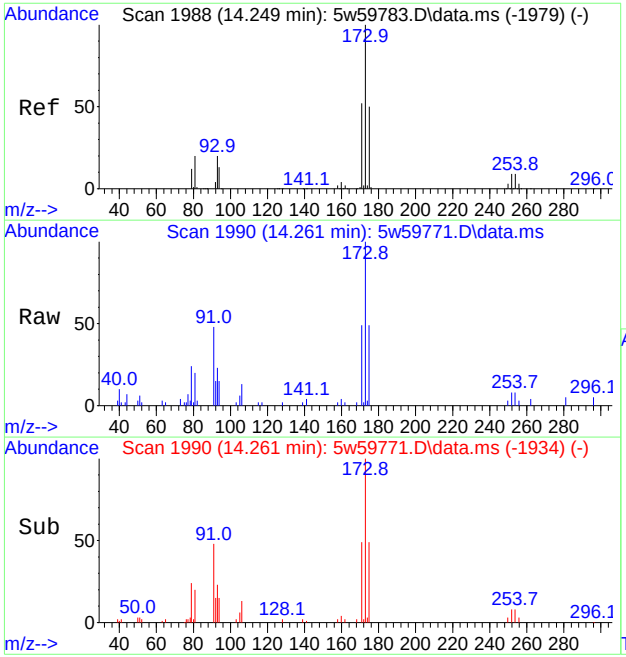


#83
NONANE
Concen: 0.26 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 25033

Ion	Ratio	Lower	Upper
43	100		
71	19.6	0.0	52.7
128	6.3	0.0	34.7

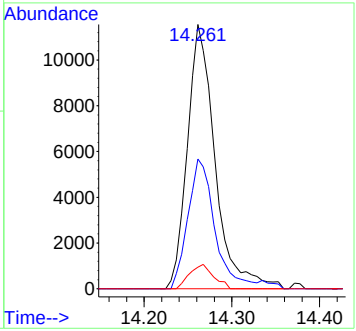


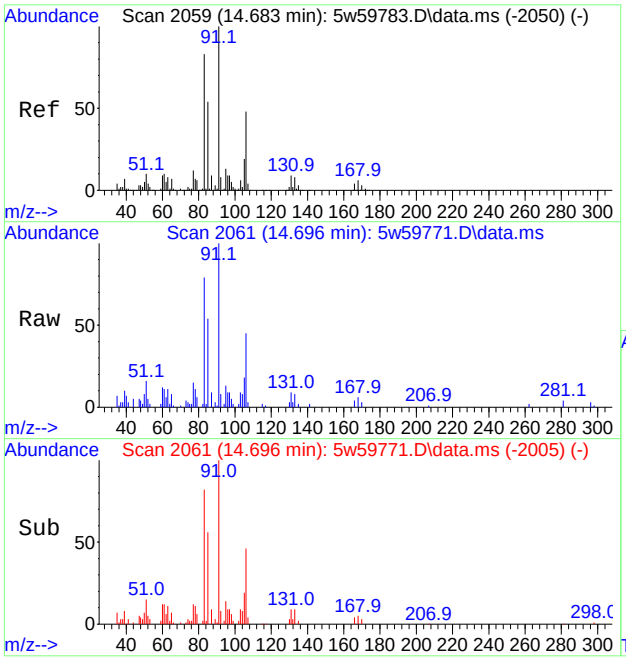


#84
BROMOFORM
Concen: 0.20 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:173 Resp: 25461

Ion	Ratio	Lower	Upper
173	100		
175	49.1	19.6	79.6
254	7.9	0.0	39.0

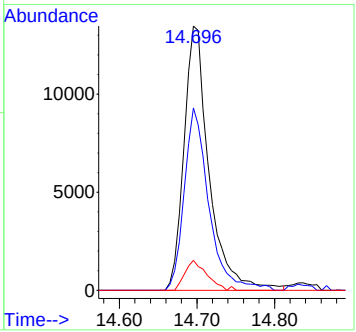


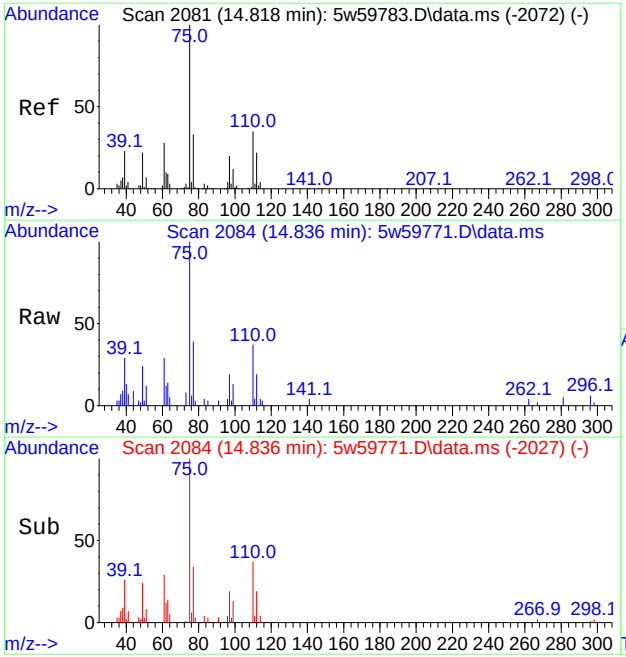


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.23 PPBV
RT: 14.696 min Scan# 2061
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 30281

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	10.0	0.0	40.3

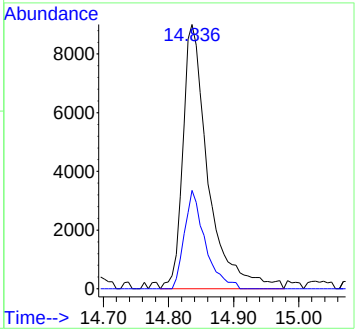


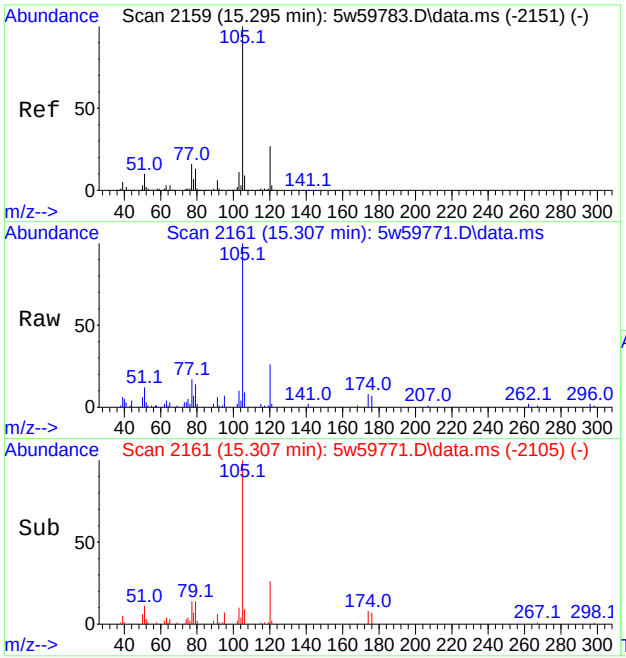


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.24 PPBV
RT: 14.836 min Scan# 2084
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 24248

Ion	Ratio	Lower	Upper
75	100		
110	30.6	4.4	64.4

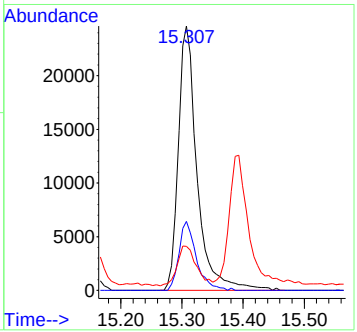


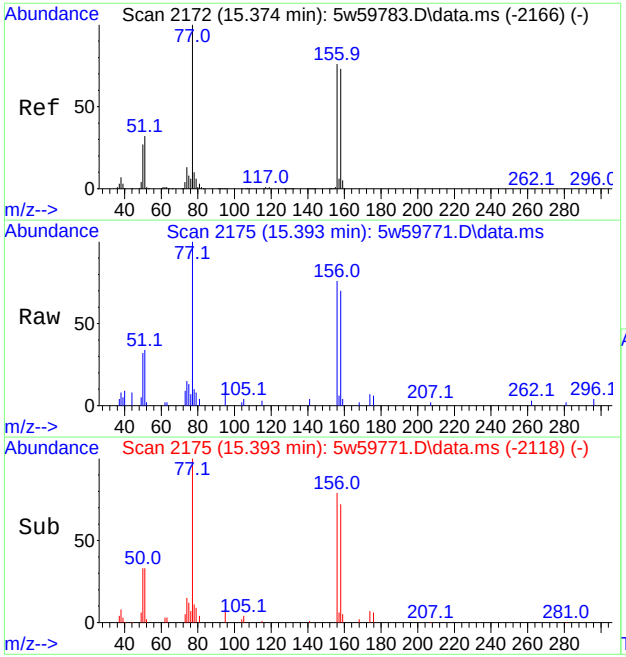


#88
ISOPROPYLBENZENE
Concen: 0.23 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 52329

Ion	Ratio	Lower	Upper
105	100		
120	24.2	0.0	56.0
77	15.5	0.0	45.6

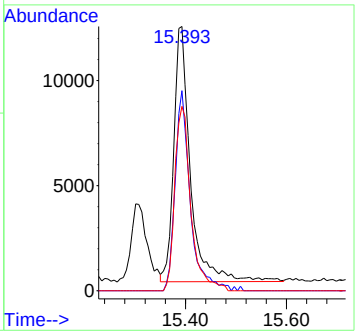


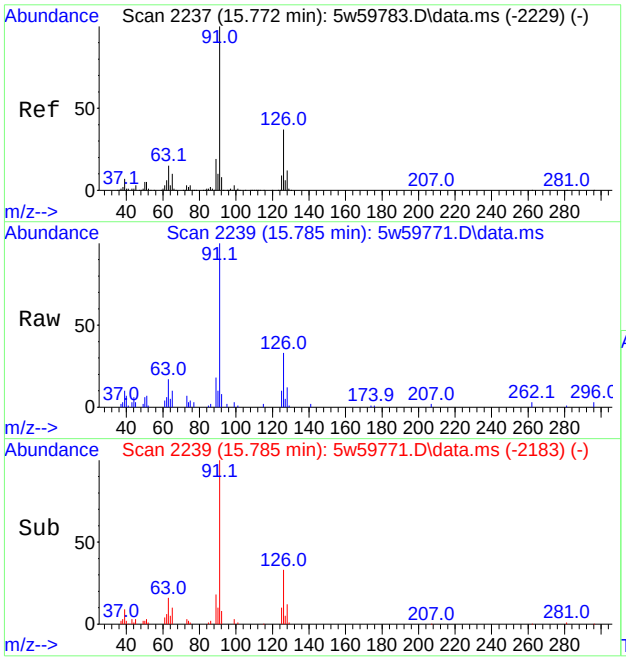


#89
BROMOBENZENE
Concen: 0.24 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 77 Resp: 27933

Ion	Ratio	Lower	Upper
77	100		
156	70.8	54.9	101.9
158	69.8	53.5	99.3

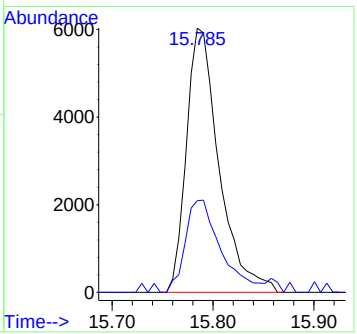


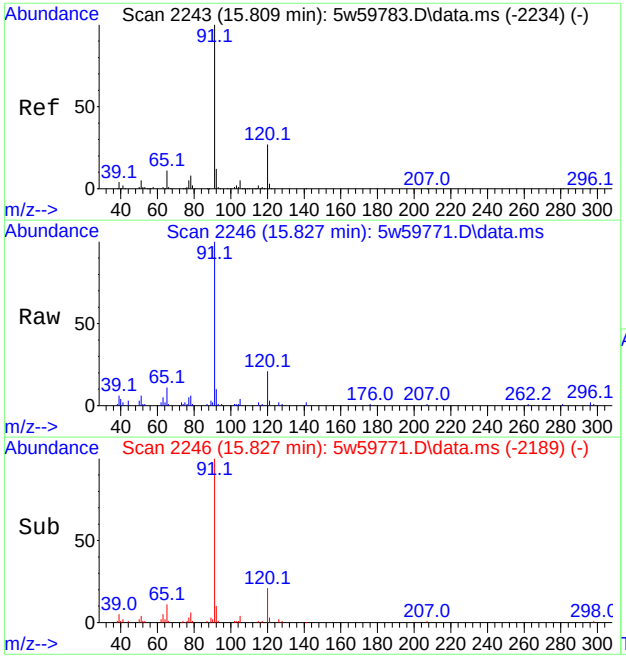


#90
2-CHLOROTOLUENE
Concen: 0.21 PPBV
RT: 15.785 min Scan# 2239
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:126 Resp: 13598

Ion	Ratio	Lower	Upper
126	100		
128	40.4	2.7	62.7

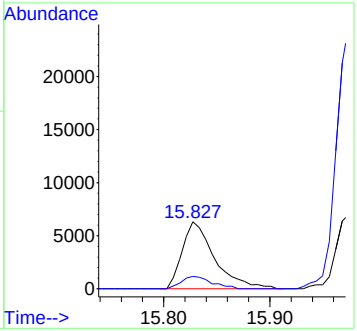


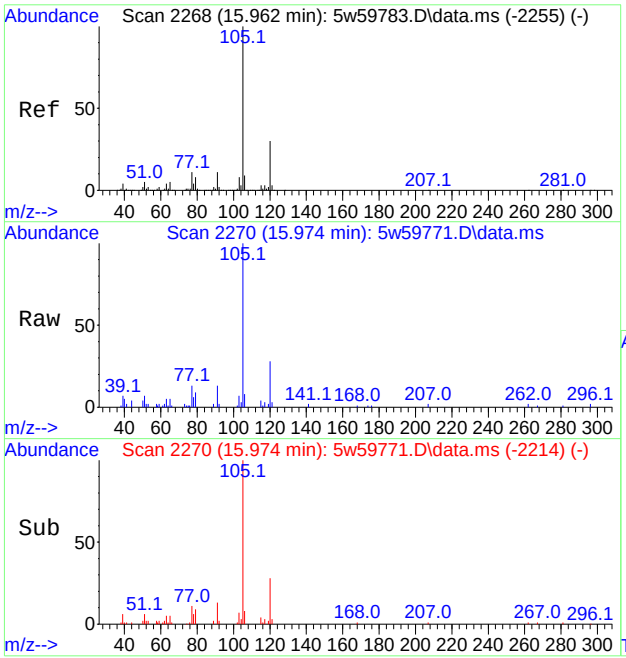


#91
n-PROPYLBENZENE
Concen: 0.21 PPBV
RT: 15.827 min Scan# 2246
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:120 Resp: 13388

Ion	Ratio	Lower	Upper
120	100		
105	17.4	0.0	47.0

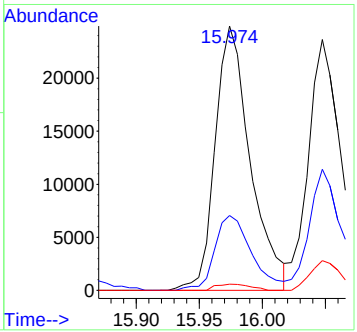


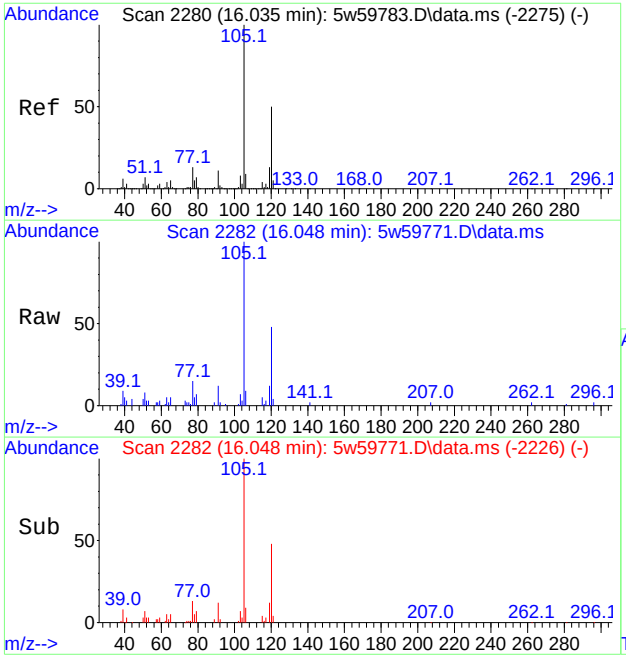


#92
4-ETHYLTOLUENE
Concen: 0.22 PPBV
RT: 15.974 min Scan# 2270
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48336

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	59.9
119	2.3	0.0	32.3

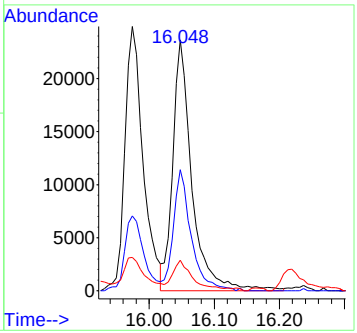


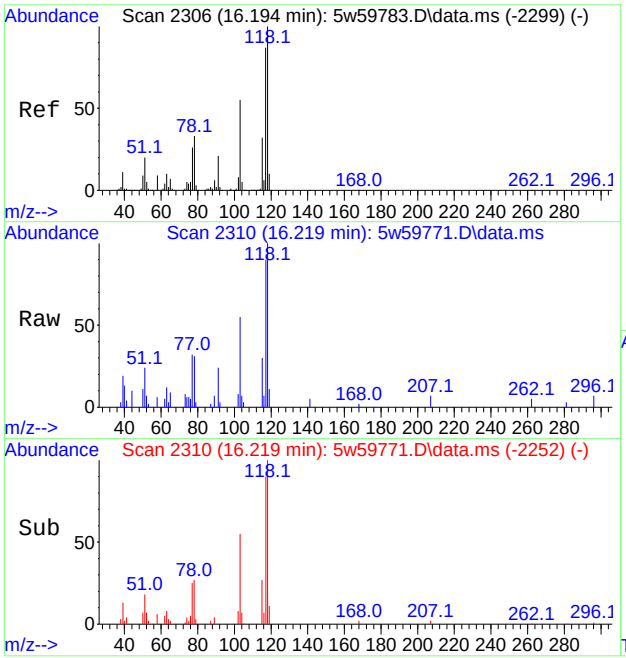


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.26 PPBV
RT: 16.048 min Scan# 2282
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48446

Ion	Ratio	Lower	Upper
105	100		
120	45.0	19.4	79.4
91	13.3	0.0	40.8

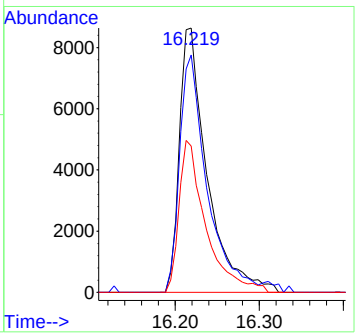


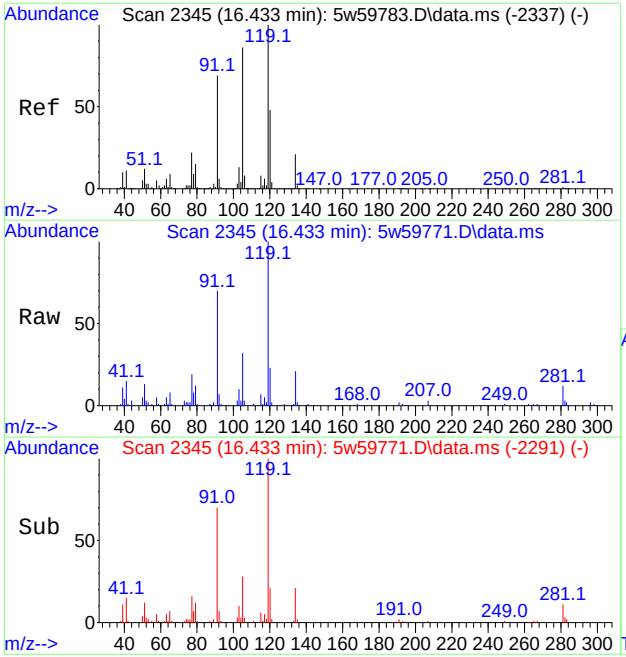


#94
ALPHA-METHYLSTYRENE
Concen: 0.19 PPBV
RT: 16.219 min Scan# 2310
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:118 Resp: 19855

Ion	Ratio	Lower	Upper
118	100		
117	90.9	60.9	113.1
103	55.4	38.6	71.8

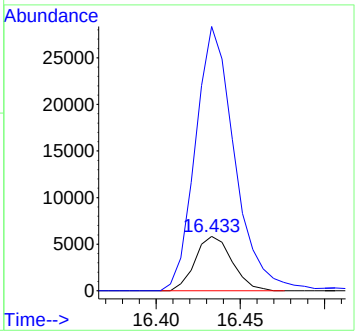


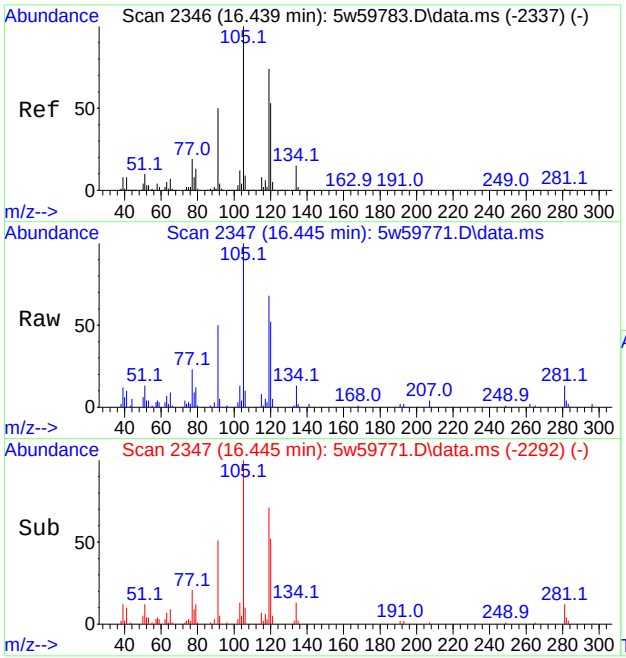


#95
tert-BUTYLBENZENE
Concen: 0.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 8909

Ion	Ratio	Lower	Upper
134	100		
119	524.3	459.3	519.3#

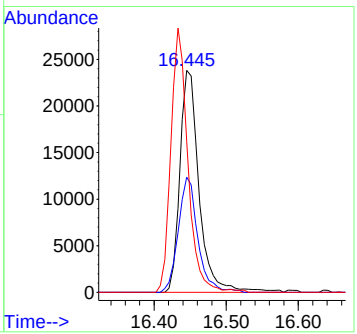


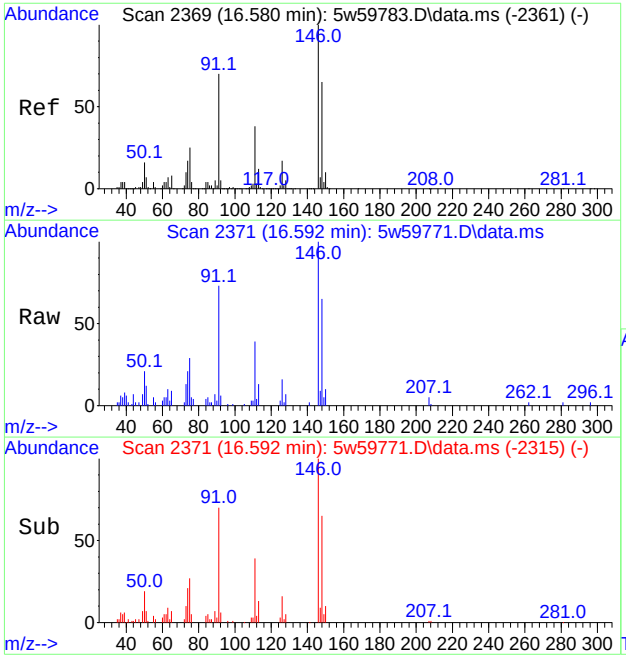


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 44191

Ion	Ratio	Lower	Upper
105	100		
120	52.7	25.7	85.7
119	105.7	75.7	135.7

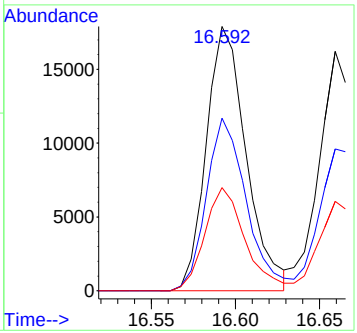


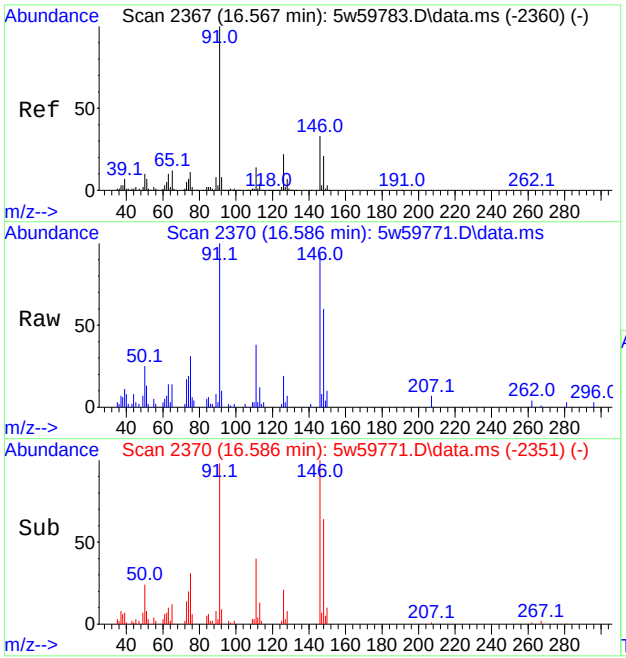


#97
m-DICHLOROBENZENE
Concen: 0.20 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 29601

Ion	Ratio	Lower	Upper
146	100		
148	66.0	34.8	94.8
111	39.3	8.2	68.2

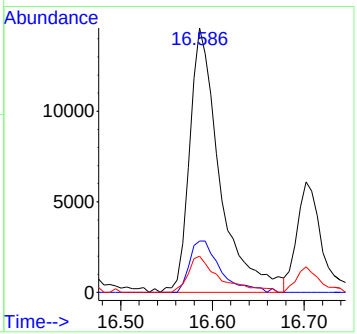


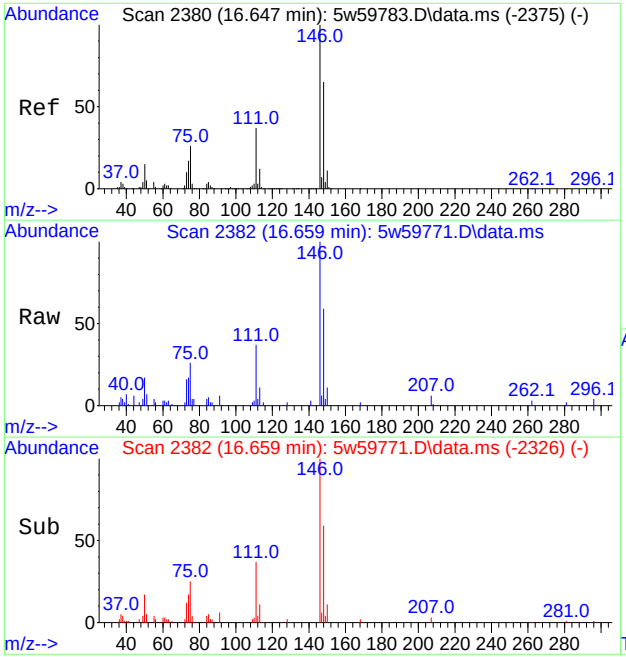


#98
BENZYL CHLORIDE
Concen: 0.19 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 33418

Ion	Ratio	Lower	Upper
91	100		
126	20.0	0.0	51.7
65	14.3	0.0	42.2

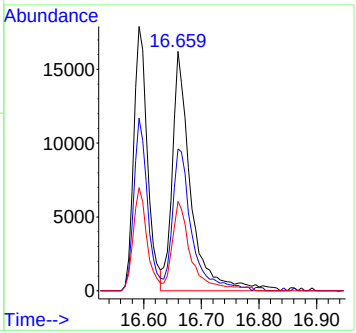


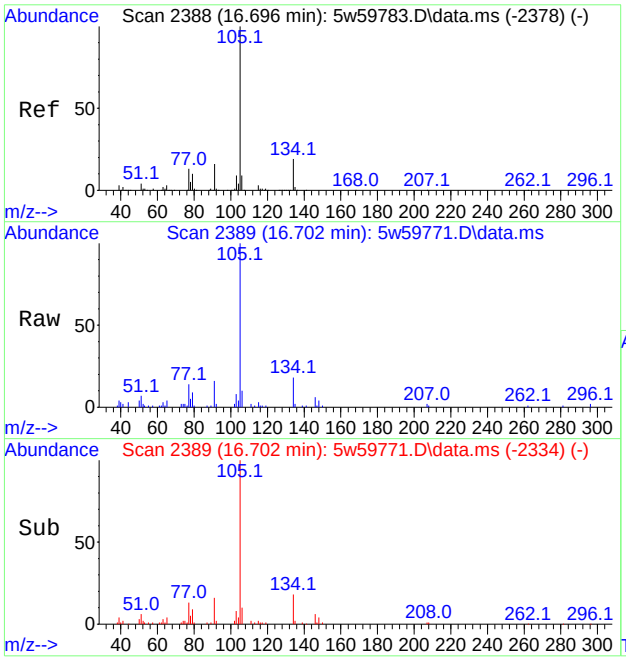


#99
p-DICHLOROBENZENE
Concen: 0.24 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 36208

Ion	Ratio	Lower	Upper
146	100		
148	61.8	34.6	94.6
111	38.4	6.7	66.7

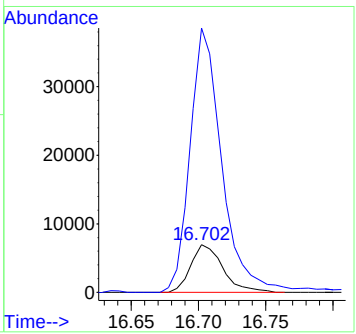


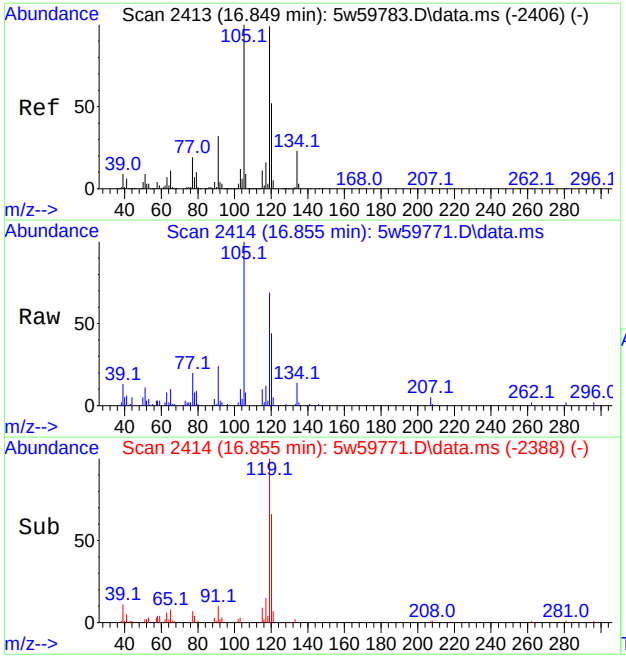


#100
sec-BUTYLBENZENE
Concen: 0.23 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 11583

Ion	Ratio	Lower	Upper
134	100		
105	557.6	502.5	562.5

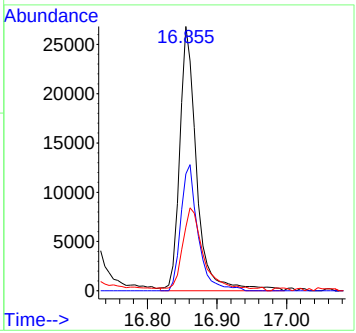


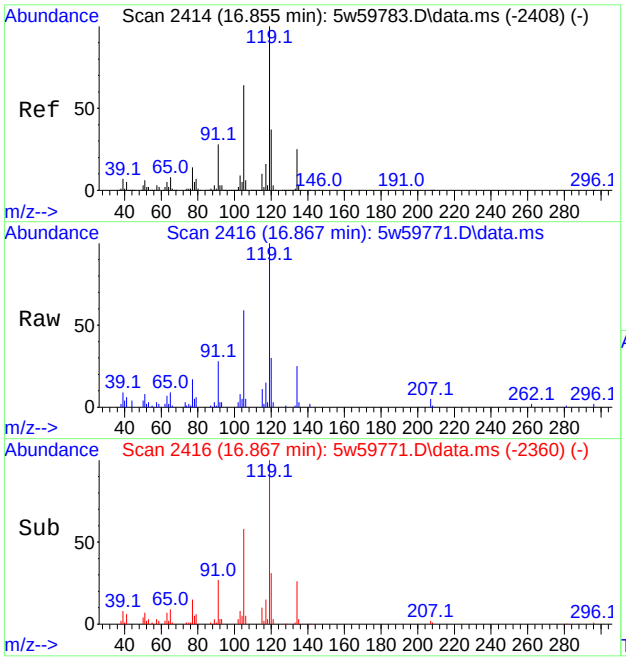


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 45724

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	39.5	7.4	67.4

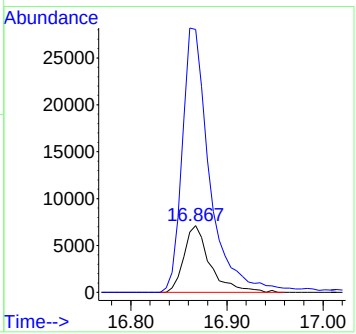


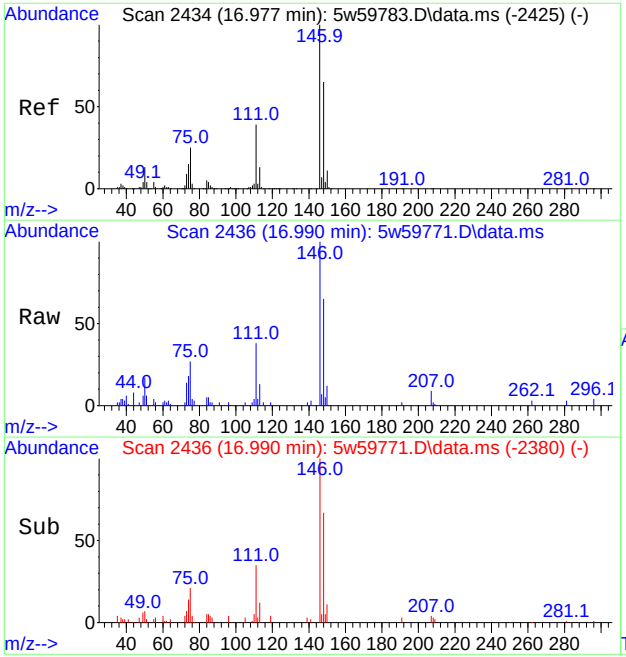


#102
p-ISOPROPYLTOLUENE
Concen: 0.23 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 13423

Ion	Ratio	Lower	Upper
134	100		
119	423.6	377.7	437.7

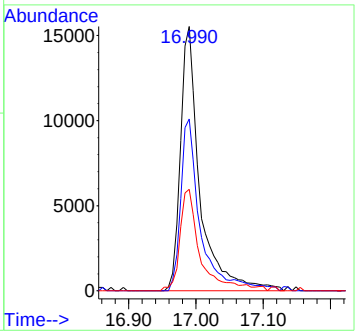


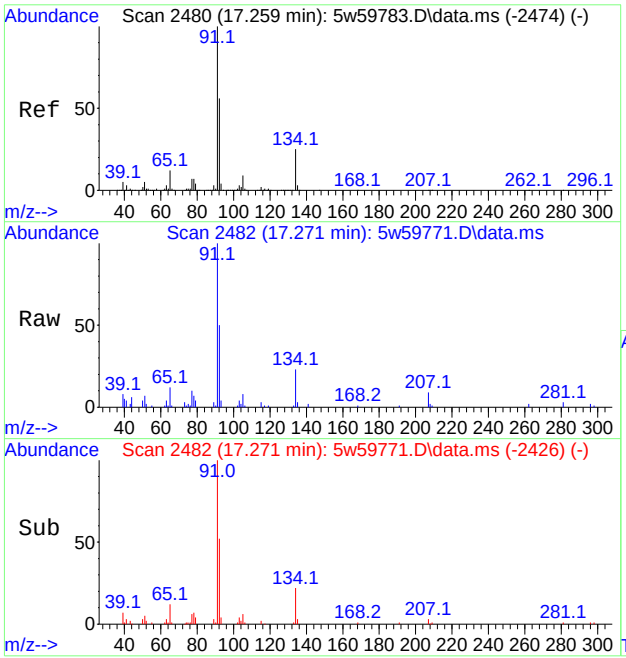


#103
o-DICHLOROBENZENE
Concen: 0.22 PPBV
RT: 16.990 min Scan# 2436
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 31360

Ion	Ratio	Lower	Upper
146	100		
148	65.8	34.3	94.3
111	40.0	9.2	69.2

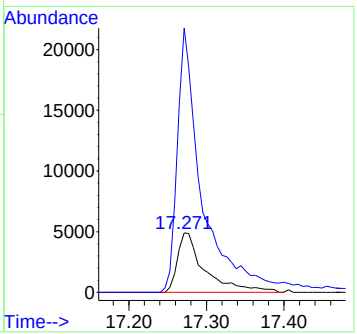


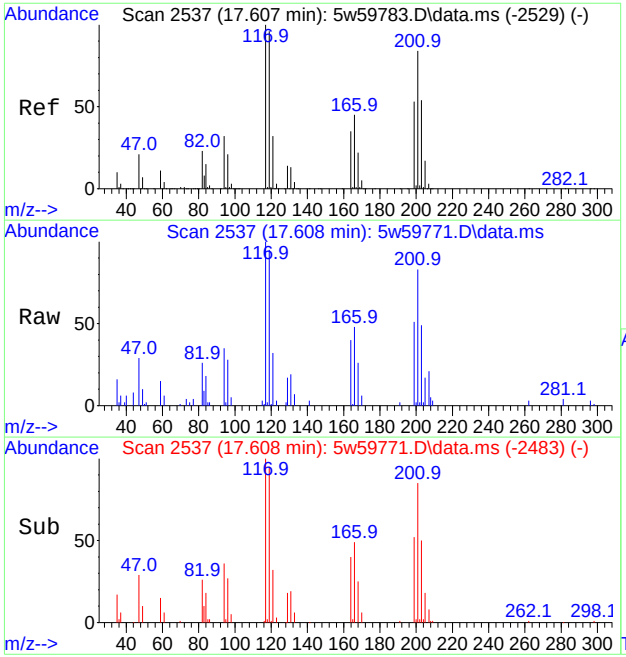


#104
n-BUTYLBENZENE
Concen: 0.20 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 12074

Ion	Ratio	Lower	Upper
134	100		
91	432.2	363.1	423.1#

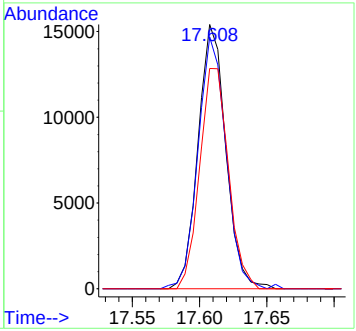


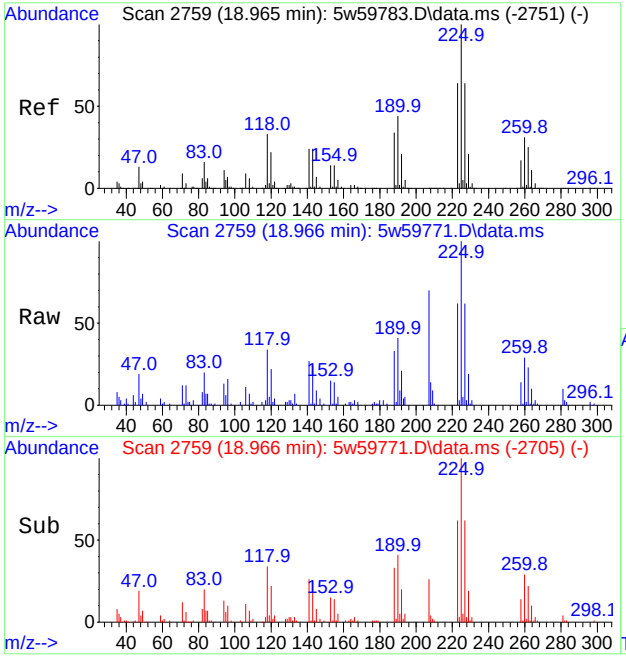


#105
HEXACHLOROETHANE
Concen: 0.23 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 22122

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.2	124.8
201	86.3	61.1	113.5

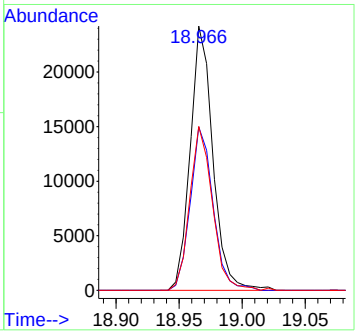


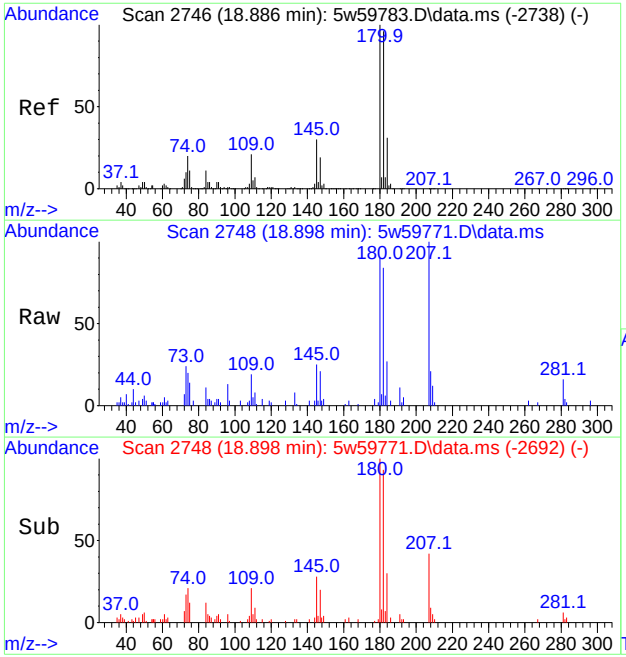


#106
HEXACHLOROBUTADIENE
Concen: 0.23 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:225 Resp: 30270

Ion	Ratio	Lower	Upper
225	100		
227	62.2	34.2	94.2
223	62.0	33.3	93.3

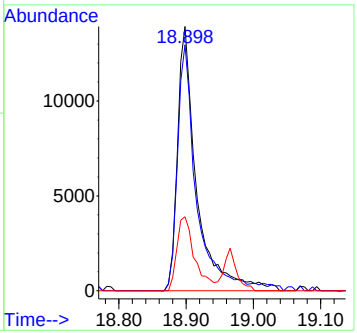


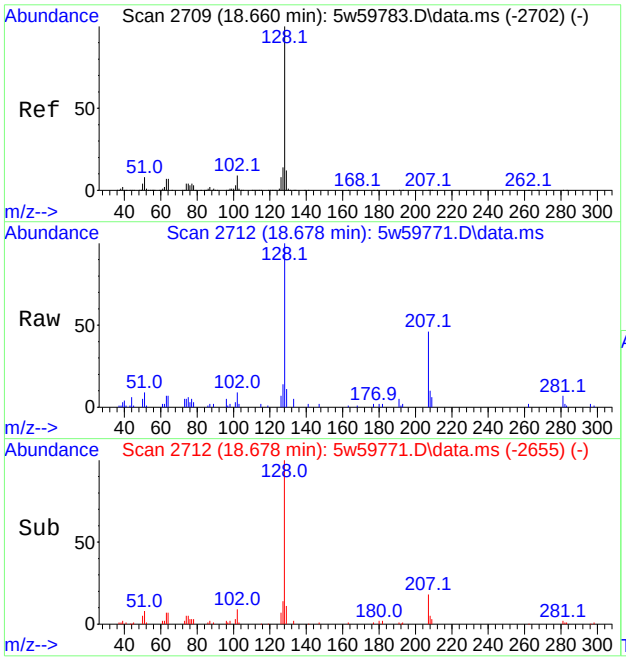


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.21 PPBV
RT: 18.898 min Scan# 2748
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:180 Resp: 27720

Ion	Ratio	Lower	Upper
180	100		
182	93.4	65.4	125.4
145	26.0	0.0	59.4

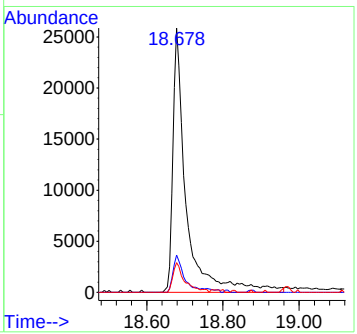


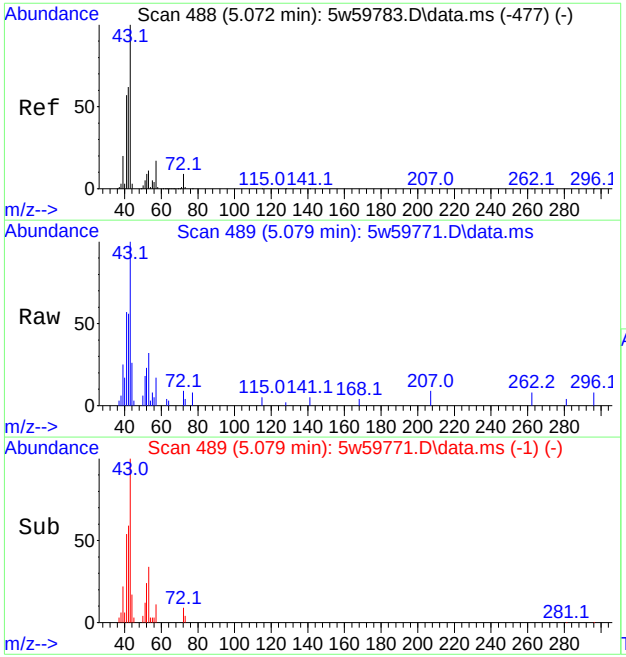


#108
NAPHTHALENE
Concen: 0.22 PPBV
RT: 18.678 min Scan# 2712
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:128 Resp: 62904

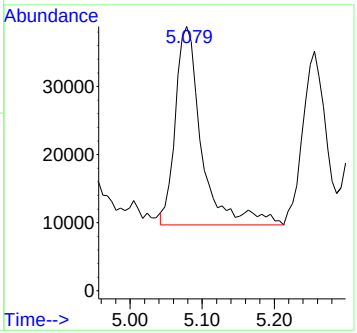
Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	43.3
129	9.9	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:TIC Resp: 73523



7.7.3

7

Manual Integration Approval Summary

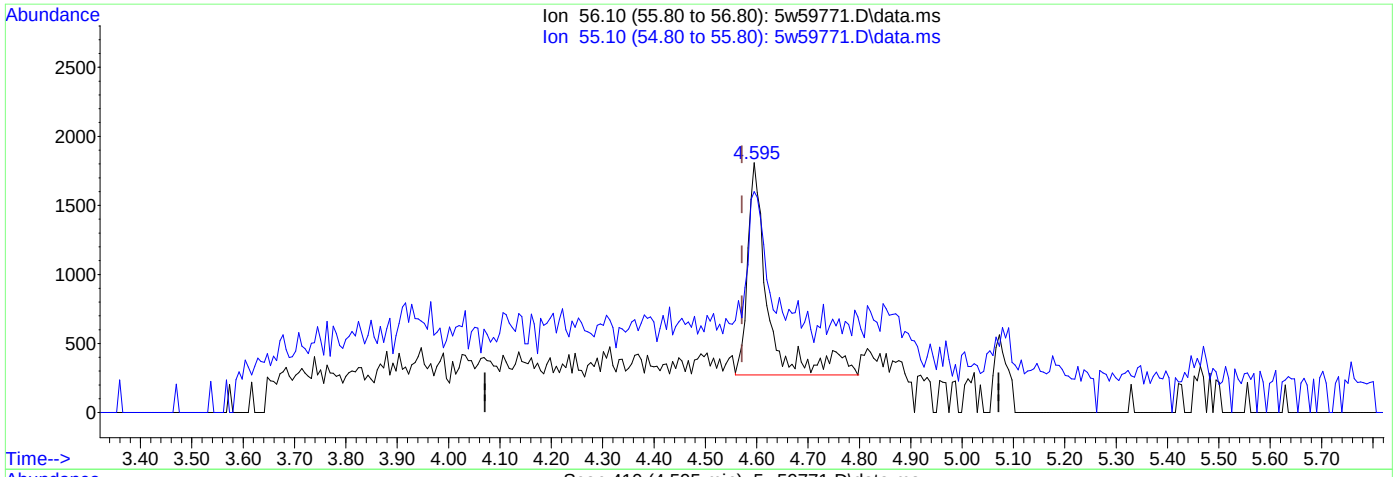
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59771.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:50 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

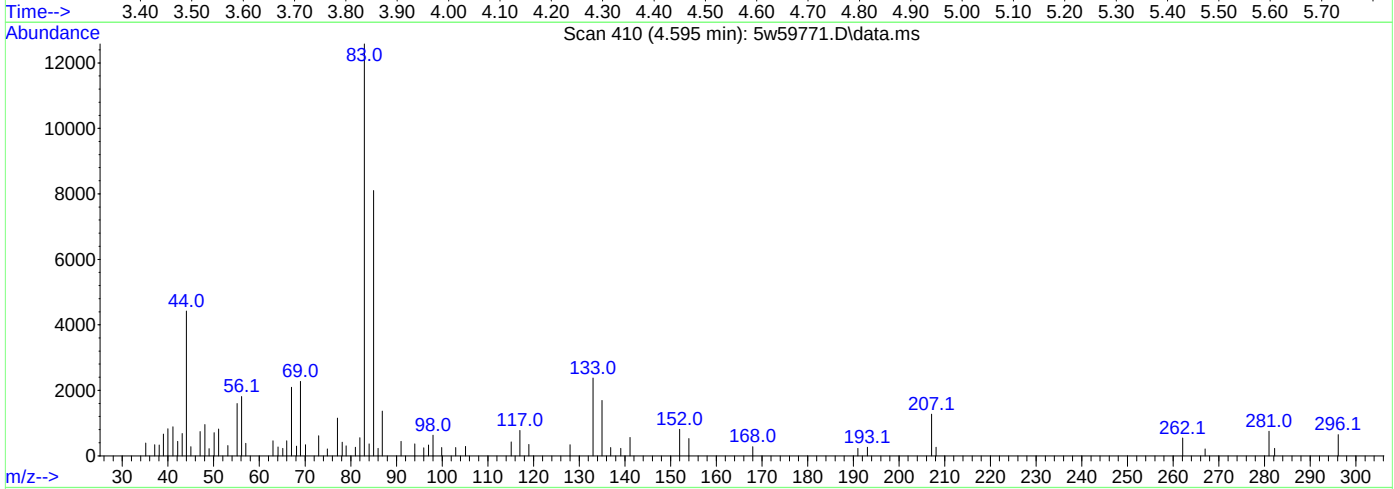
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl Acrylate	96-33-3		7.49	Missed peak
Ethyl Acetate	141-78-6		7.50	Poor instrument integration
Ethyl Acrylate	140-88-5		9.80	Missed peak
1,3-Dichloropropane	142-28-9		11.78	Poor instrument integration
2-Hexanone	591-78-6		12.17	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.29PPBV

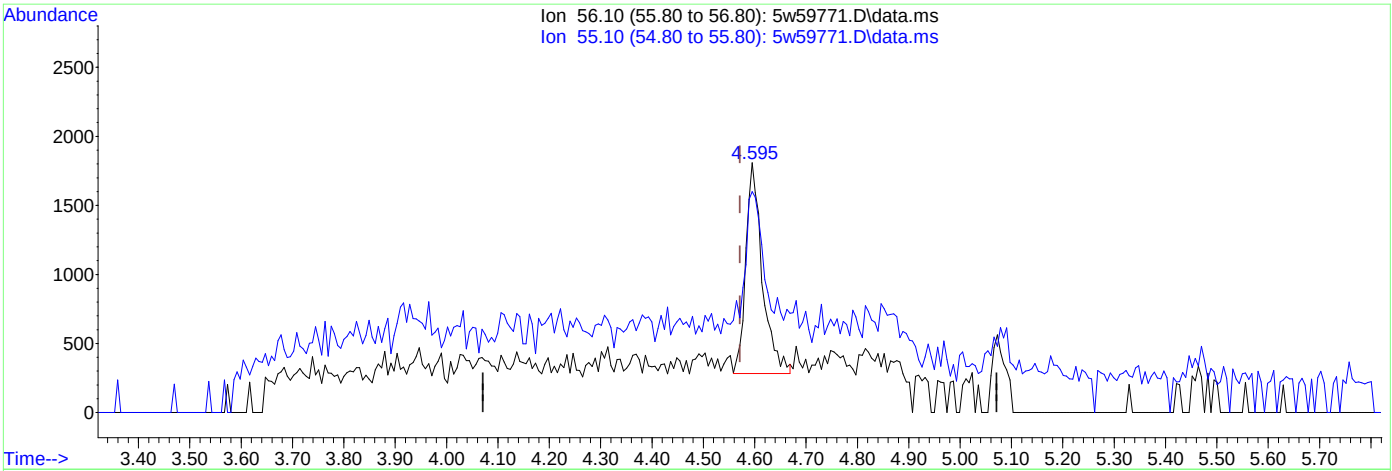
response 4217

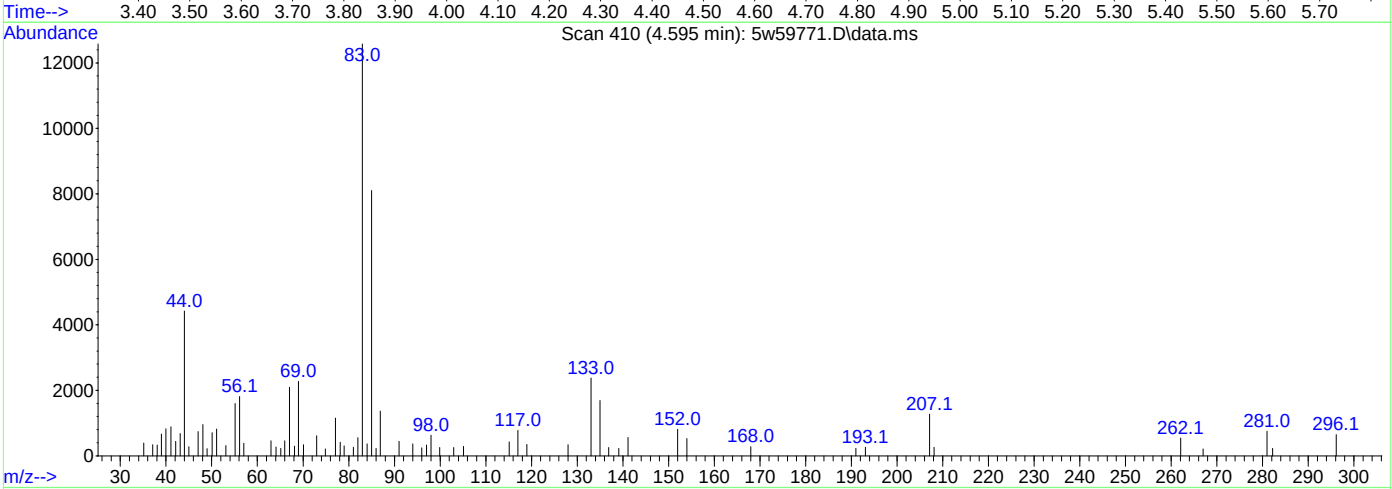
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	80.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.24PPBV m

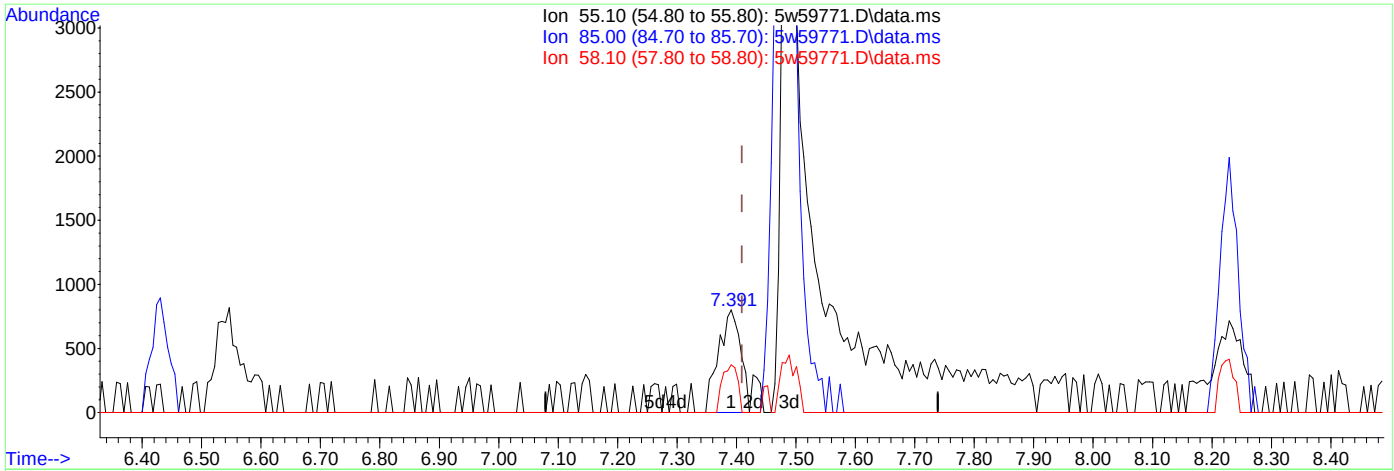
response 3414

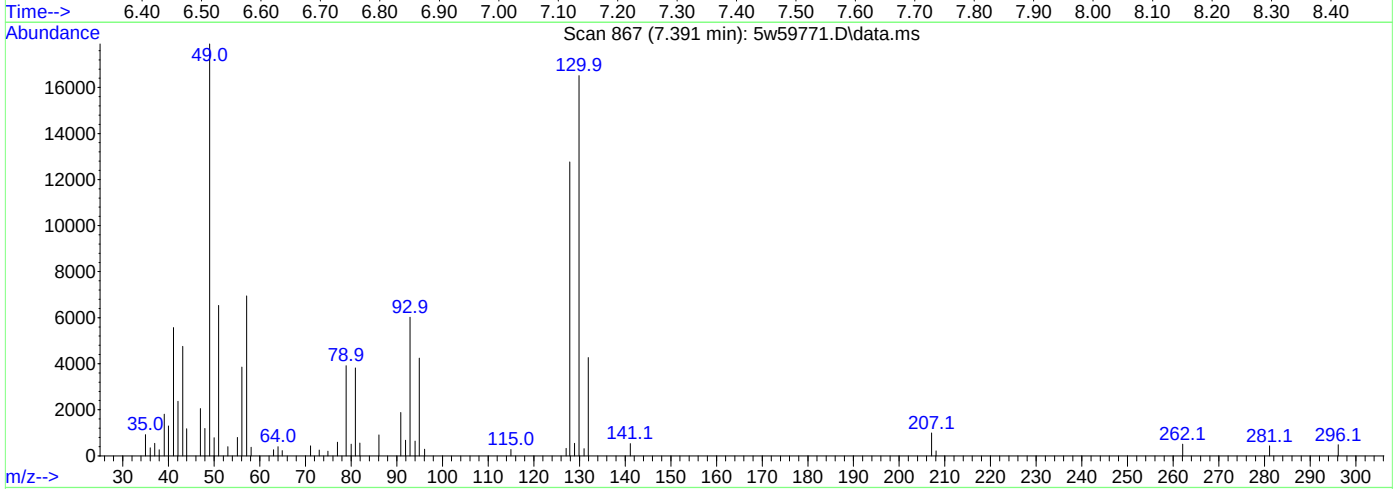
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	99.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.391min (-0.018) 0.03PPBV

response 2074

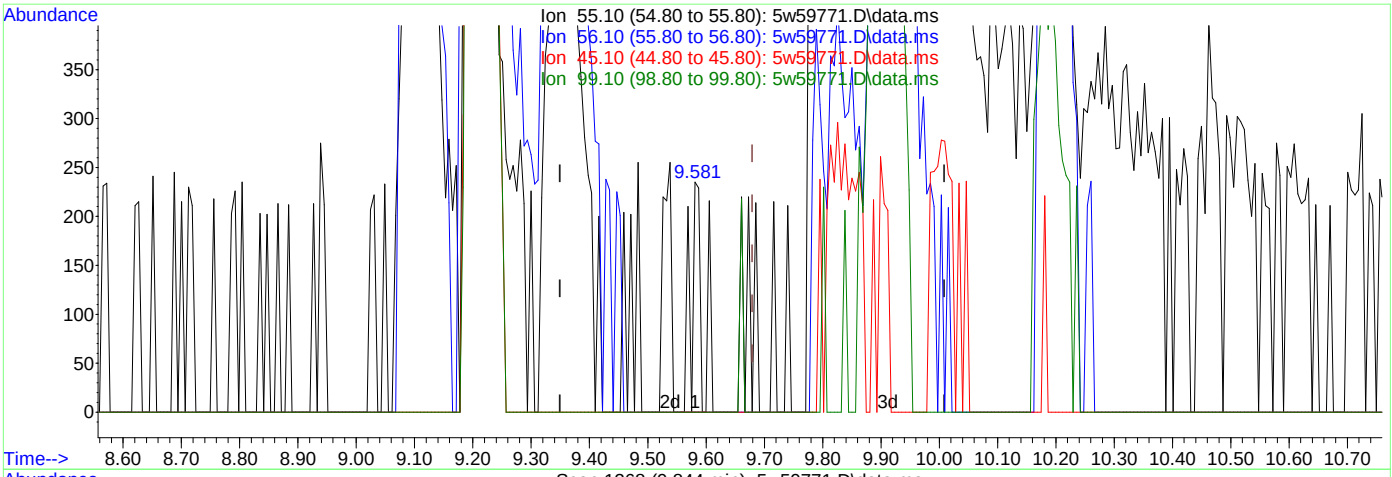
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	31.97#
0.00	0.00	0.00

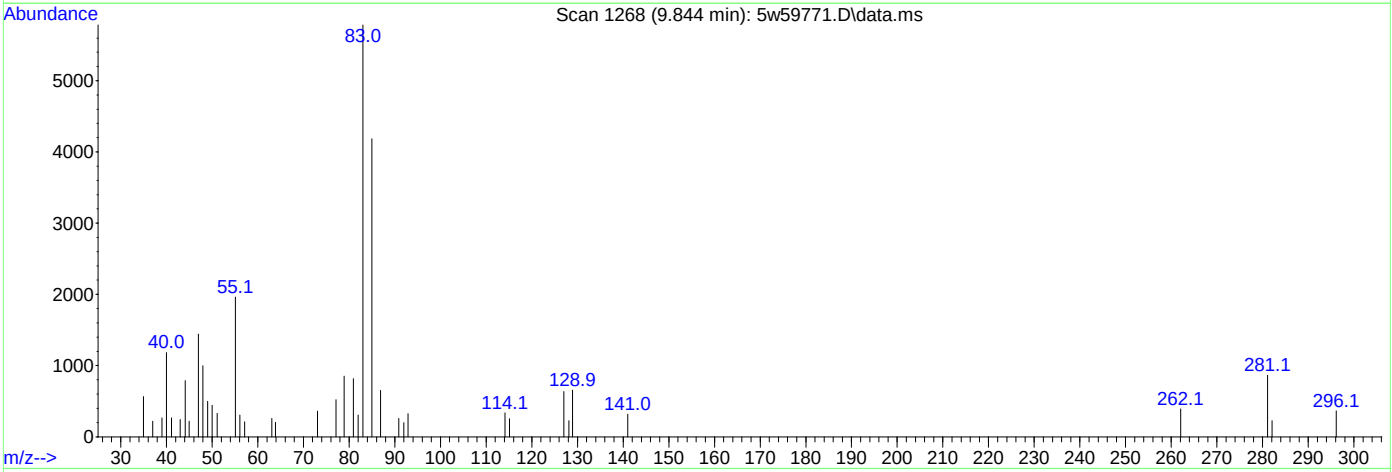
5W59771.D edits: METHYL ACRYLATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.581min (-0.098) 0.00PPBV

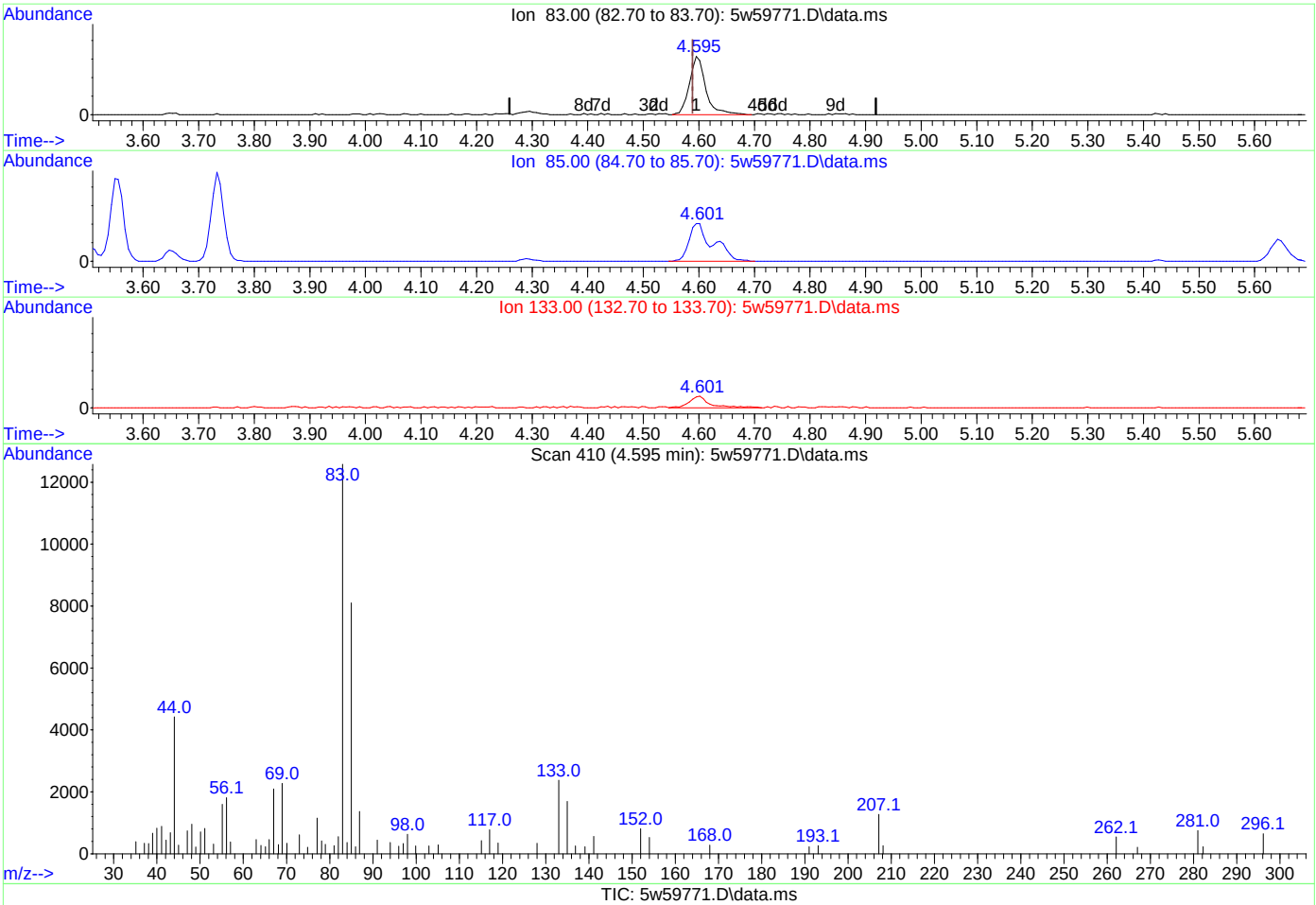
response 247

Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV

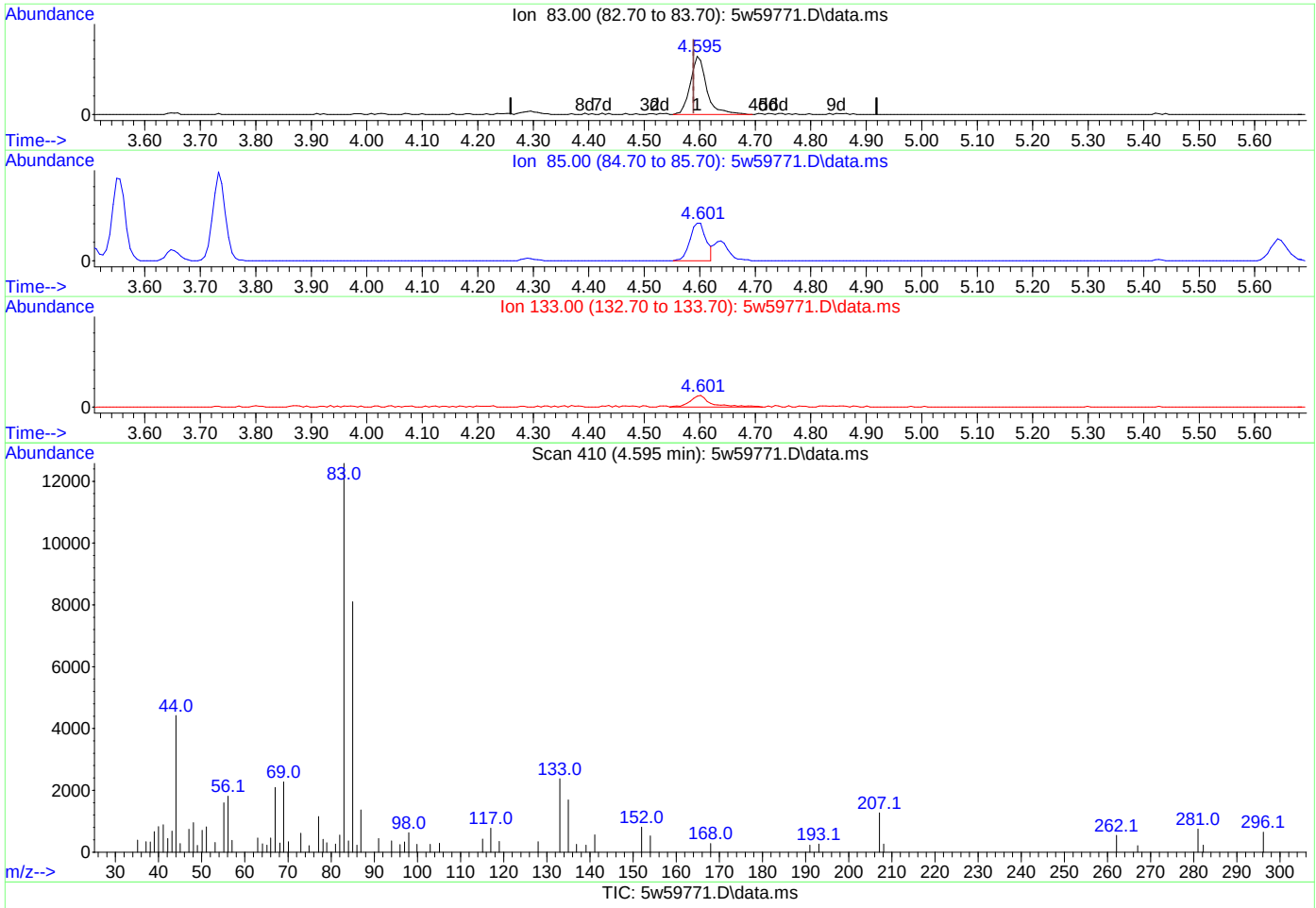
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.04#
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV m

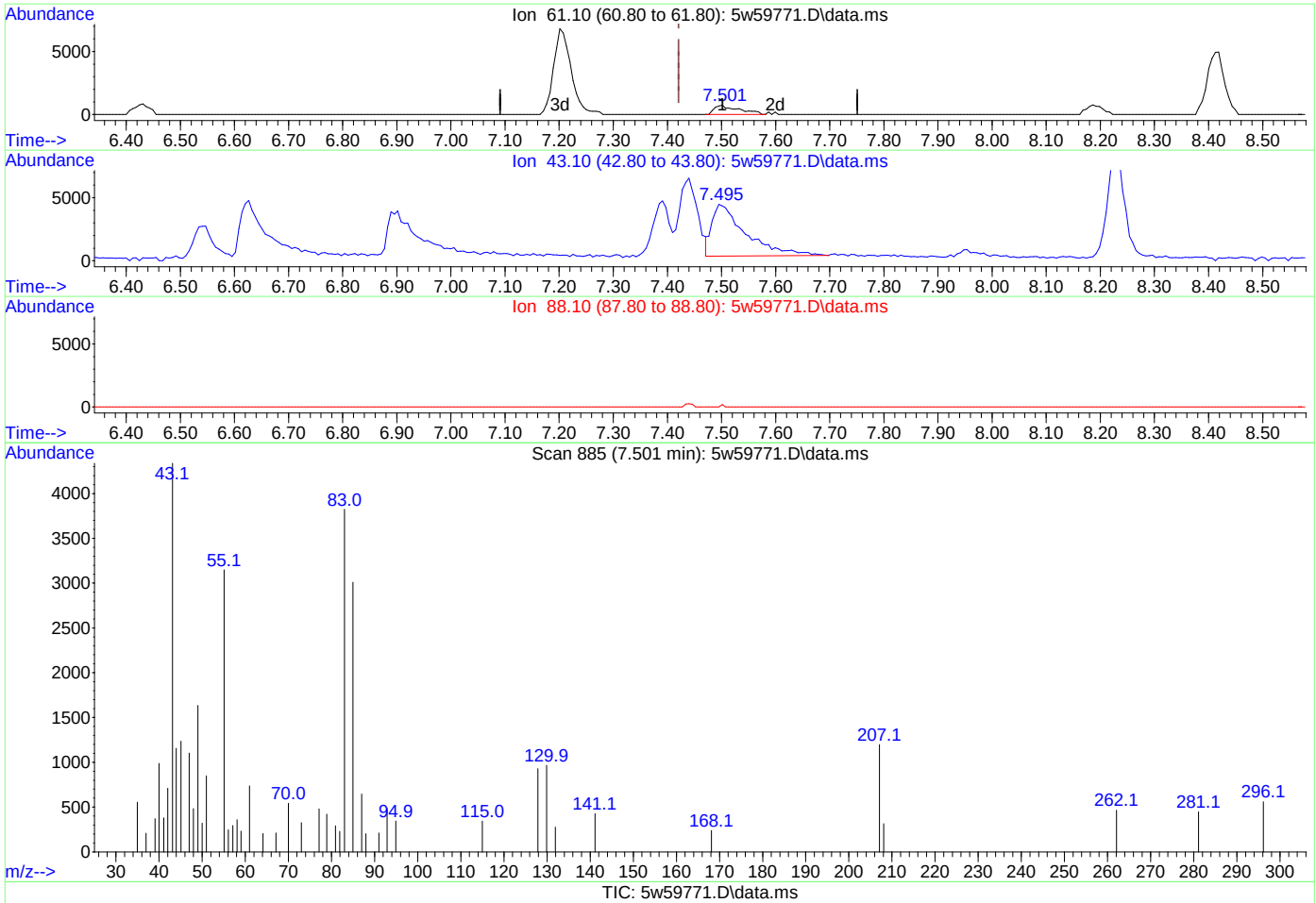
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	64.29
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV

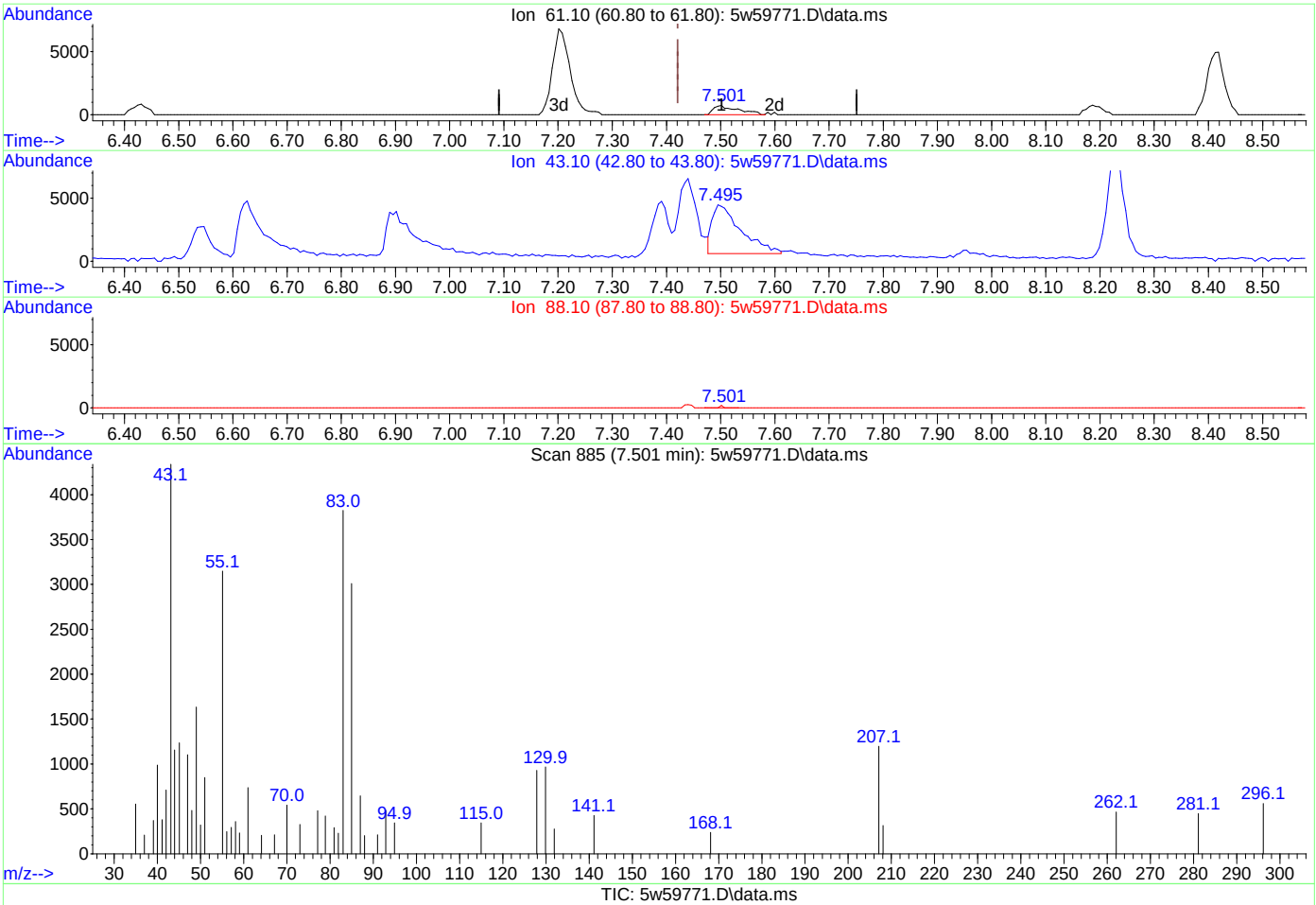
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	764.40#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV m

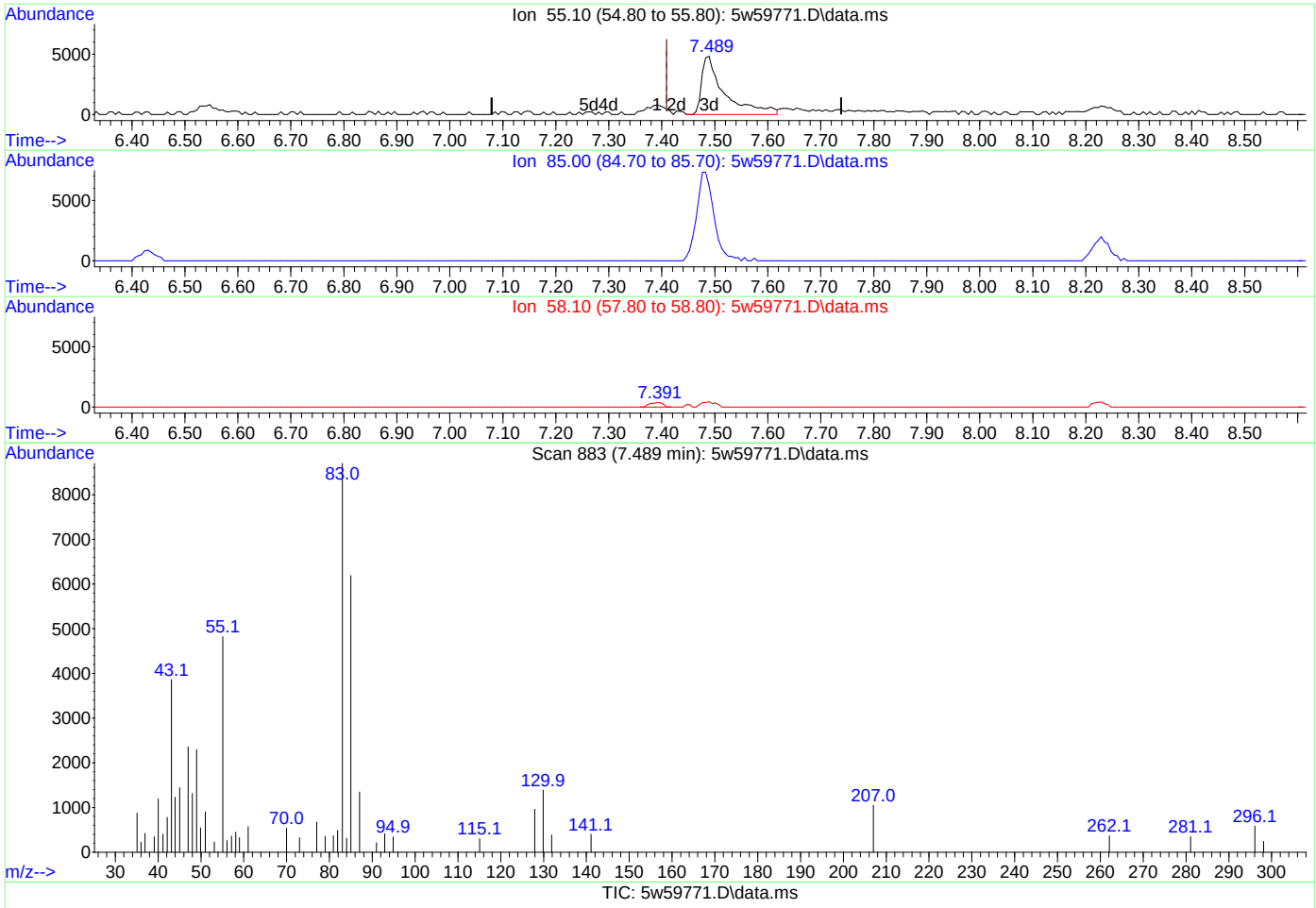
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	613.12
88.10	34.50	3.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.489min (+0.080) 0.17PPBV m

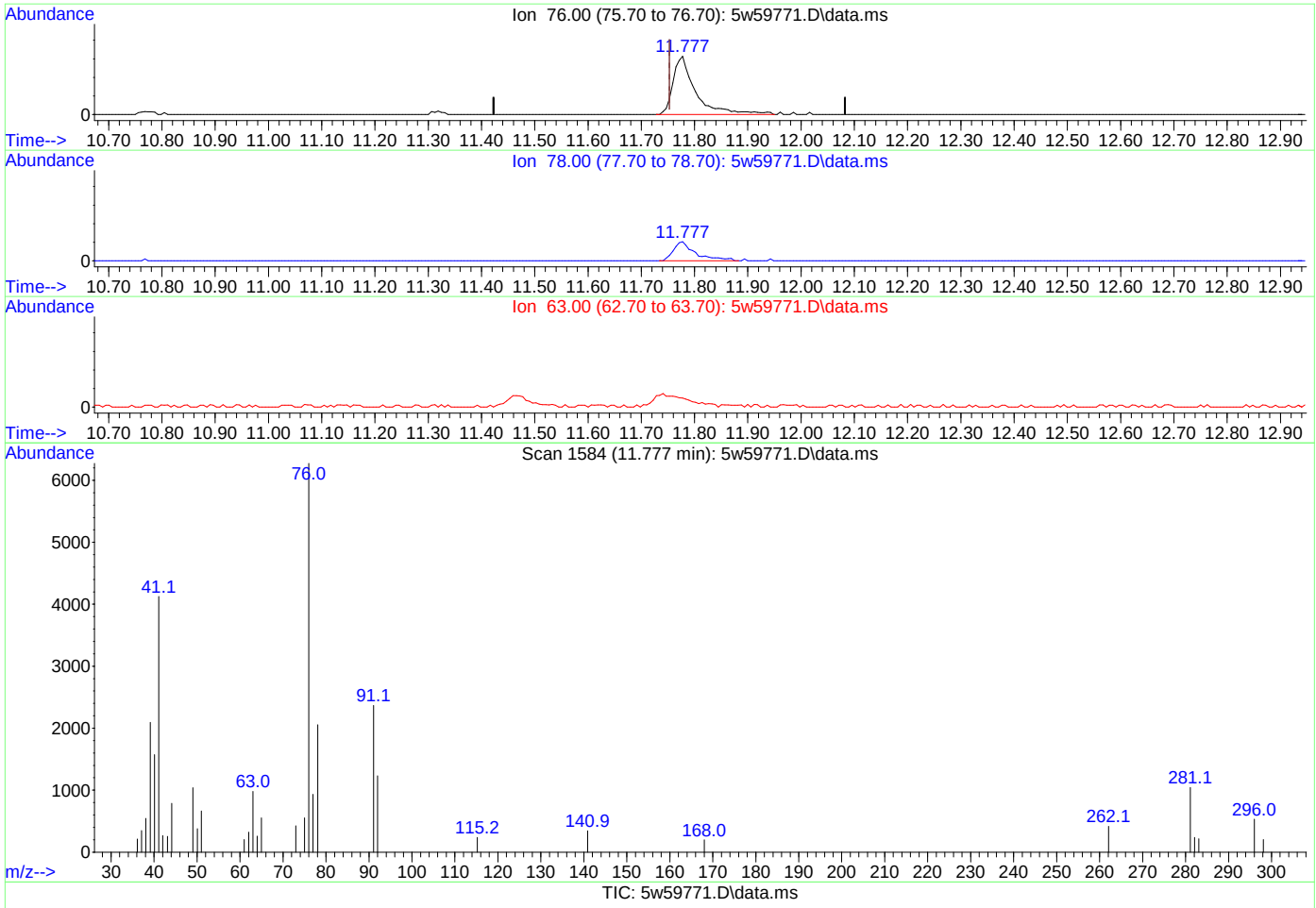
response 14366

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	4.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV

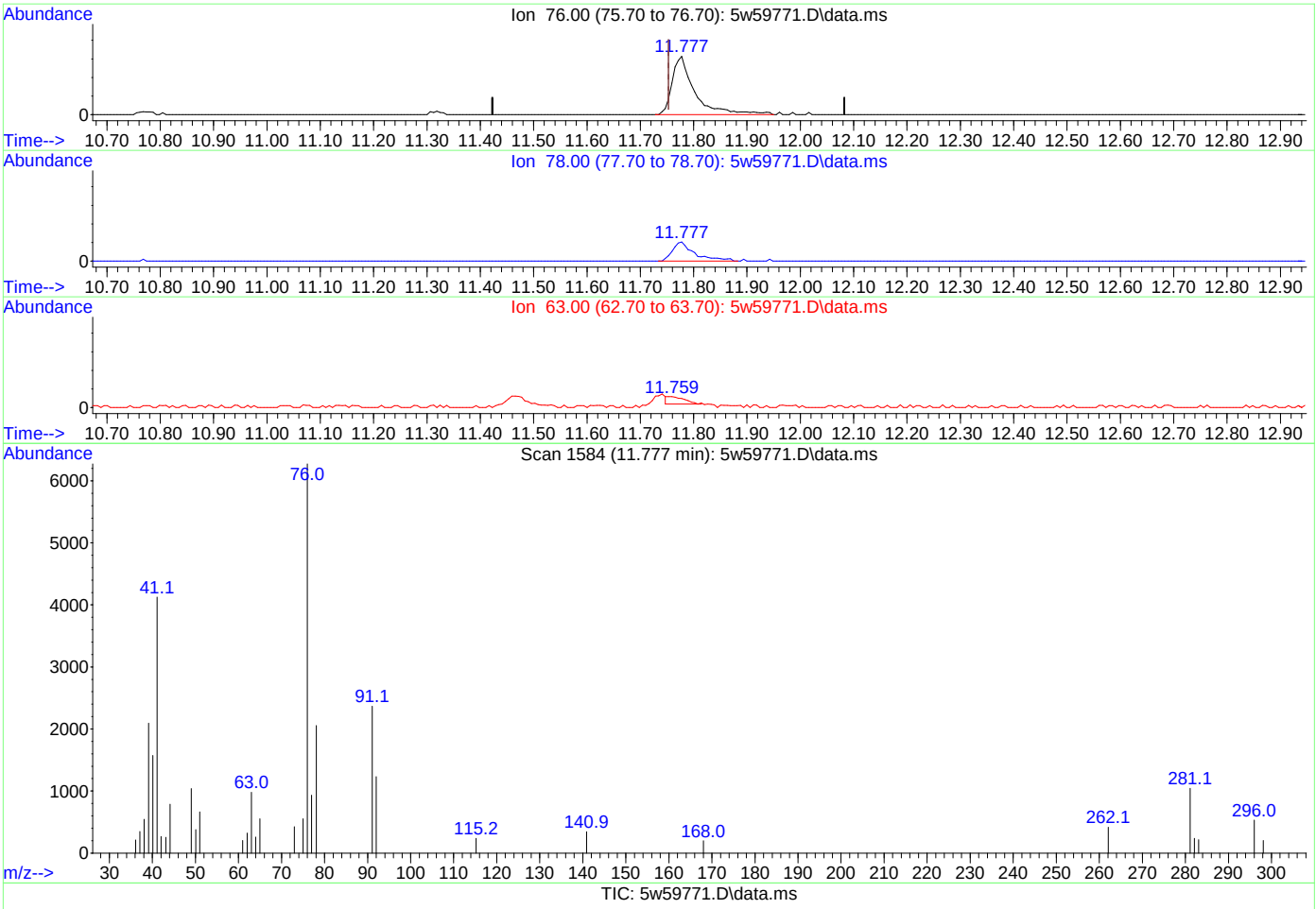
response 18562

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV m

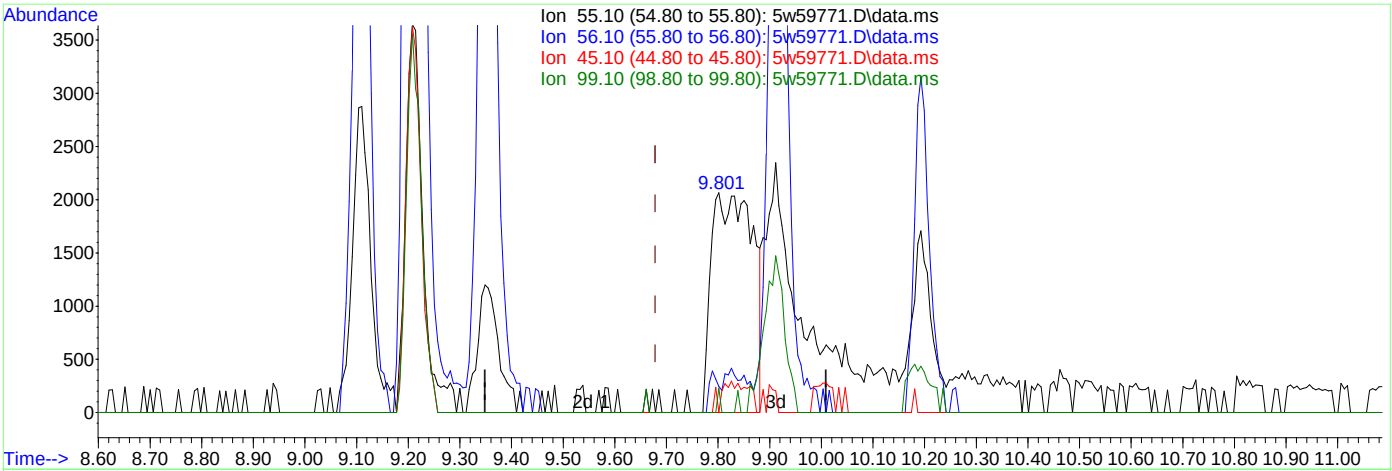
response 18562

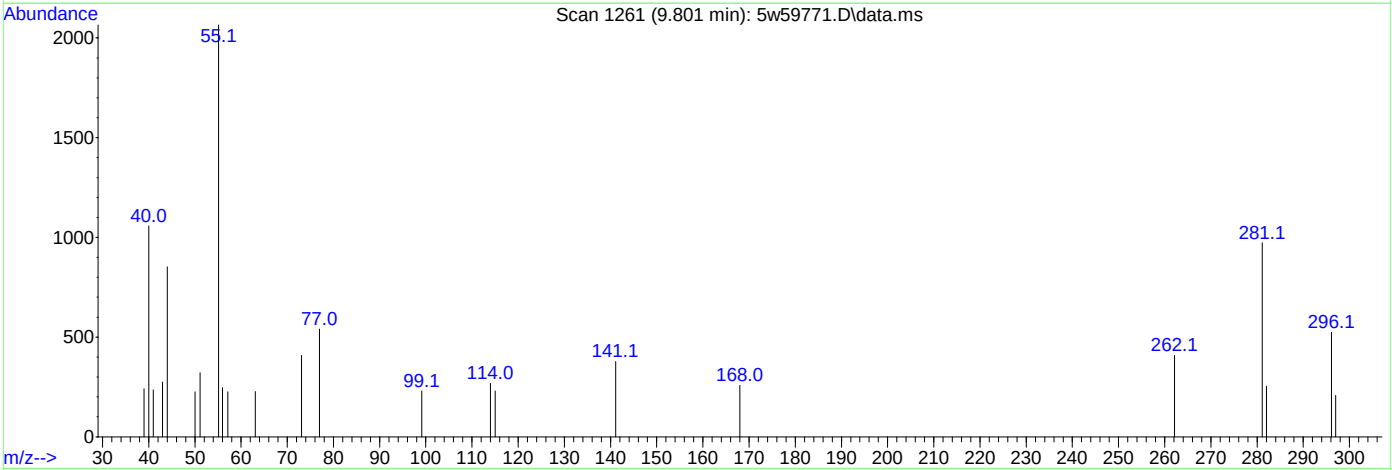
Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	9.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:17:39 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.801min (+0.122) 0.10PPBV m

response 11494

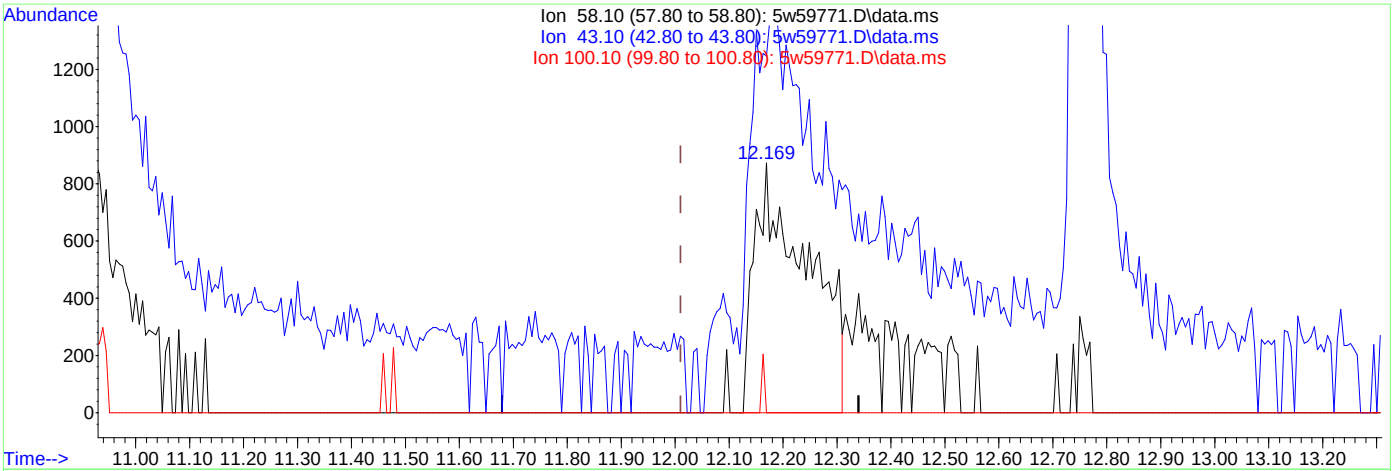
Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

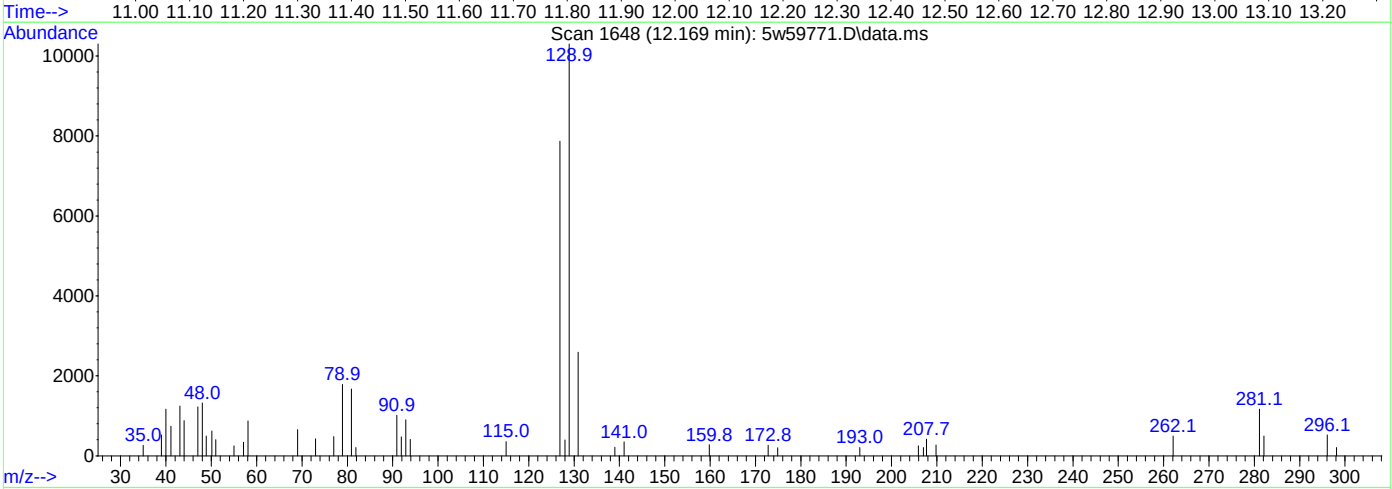
5W59771.D edits: ETHYL ACRYLATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.11PPBV

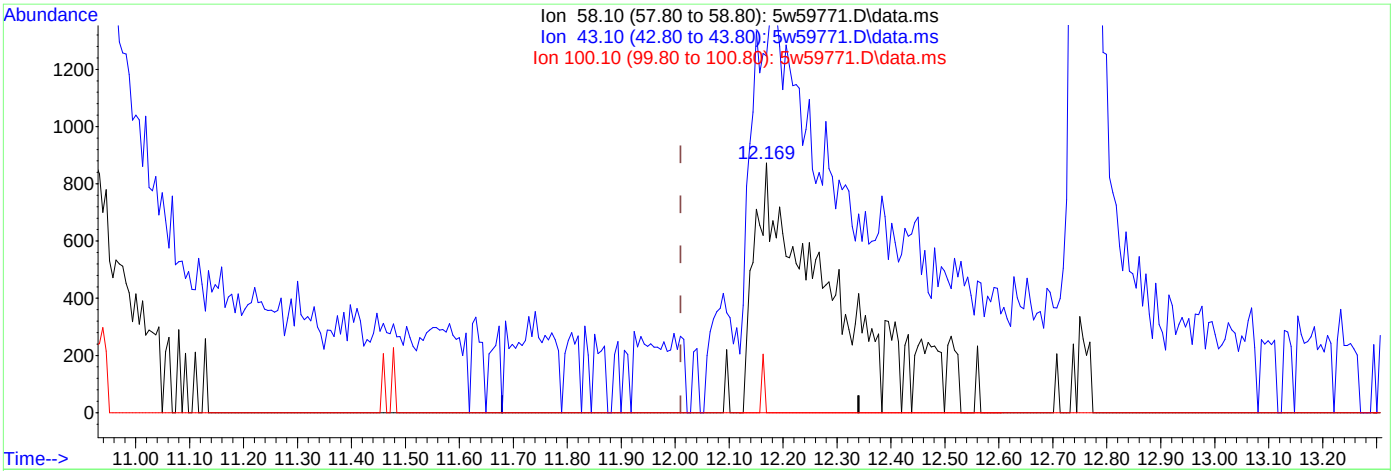
response 5939

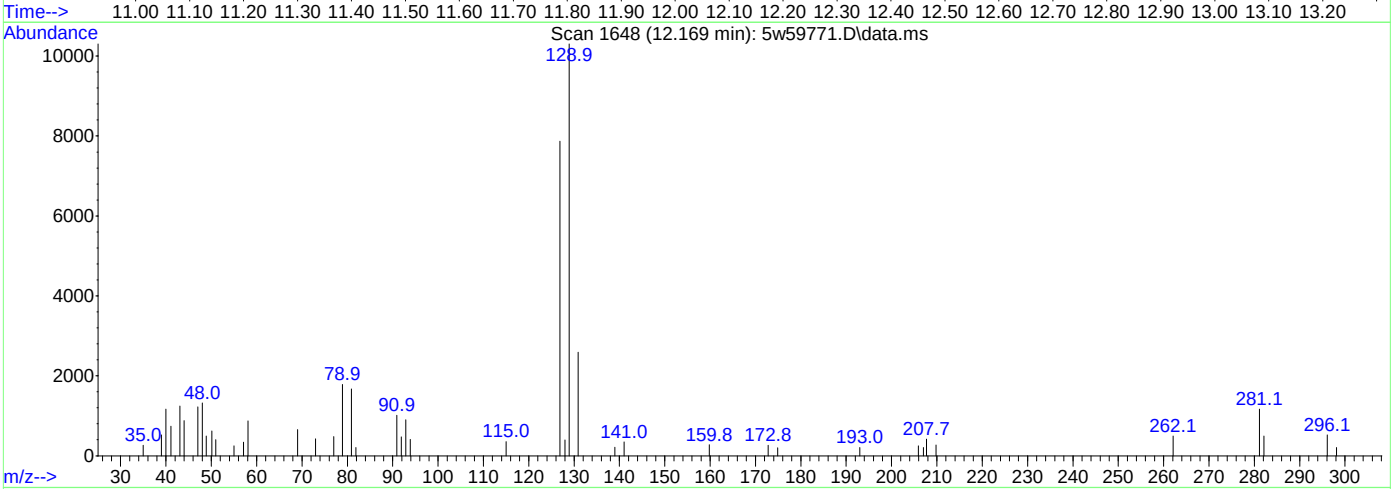
Ion	Exp%	Act%
58.10	100	100
43.10	167.20	158.80
100.10	16.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.16PPBV m

response 9038

Ion	Exp%	Act%
58.10	100	100
43.10	167.20	104.35#
100.10	16.90	0.00
0.00	0.00	0.00

5W59771.D edits: 2-HEXANONE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	472964	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2121089	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1052969	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	476464	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1418470	11.18	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.80%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	21944	0.27	PPBV		98
3) FREON 152A	3.445	65	16180	0.33	PPBV		98
4) CHLORODIFLUOROMETHANE	3.476	67	7935	0.34	PPBV		97
5) CHLOROTRIFLUOROETHENE	3.500	116	37384	0.32	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	74611	0.34	PPBV		99
7) PROPYLENE	3.500	41	19764	0.39	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	65023	0.39	PPBV		98
9) FREON 114	3.732	85	75616	0.38	PPBV		98
10) CHLOROMETHANE	3.665	52	8248	0.38	PPBV		89
11) VINYL CHLORIDE	3.818	62	25119	0.33	PPBV		95
12) 1,3-BUTADIENE	3.910	54	15745	0.37	PPBV		97
13) n-BUTANE	3.947	43	26092	0.38	PPBV	#	94
14) BROMOMETHANE	4.106	94	25633	0.33	PPBV		84
15) CHLOROETHANE	4.222	64	12538	0.39	PPBV		96
16) DICHLOROFLUOROMETHANE	4.289	67	56285	0.36	PPBV		97
17) ACETONITRILE	4.497	41	14827	0.37	PPBV		98
18) ACROLEIN	4.589	56	7542m	0.30	PPBV		
19) FREON 123	4.589	83	65470m	0.37	PPBV		
20) FREON 123A	4.632	117	39245	0.38	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.791	101	67375	0.36	PPBV		98
22) ISOPROPYL ALCOHOL	4.907	45	51138	0.37	PPBV		95
23) ACETONE	4.705	58	10630	0.38	PPBV		97
24) PENTANE	5.072	42	25466	0.38	PPBV		99
25) IODOMETHANE	5.250	142	79998	0.35	PPBV		100
26) 1,1-DICHLOROETHYLENE	5.317	96	27579	0.36	PPBV		96
27) CARBON DISULFIDE	5.672	76	72450	0.34	PPBV		99
28) ETHANOL	4.338	45	9883	0.39	PPBV		97
29) BROMOETHENE	4.479	106	27007	0.35	PPBV		98
30) ACRYLONITRILE	5.060	52	17143	0.37	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	22923	0.34	PPBV		98
32) 3-CHLOROPROPENE	5.525	76	12479	0.36	PPBV	#	88
33) FREON 113	5.641	151	45001	0.33	PPBV		99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	28115	0.35	PPBV		87
35) TERTIARY BUTYL ALCOHOL	5.439	59	48711	0.31	PPBV		96
36) METHYL TERTIARY BUTYL ...	6.516	73	72222	0.36	PPBV		95
37) TETRAHYDROFURAN	7.917	72	9128	0.29	PPBV	#	81
38) HEXANE	7.385	57	38643	0.34	PPBV		92
39) VINYL ACETATE	6.602	86	2461	0.19	PPBV	#	68
40) 1,1-DICHLOROETHANE	6.424	63	51689	0.36	PPBV		98
41) METHYL ETHYL KETONE	6.859	72	9022	0.28	PPBV		97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	29380	0.35	PPBV		94
43) DIISOPROPYL ETHER	7.415	59	10994	0.31	PPBV	#	84
44) ETHYL ACETATE	7.470	61	7547	0.29	PPBV	#	73
45) METHYL ACRYLATE	7.452	55	42153m	0.30	PPBV		
46) CHLOROFORM	7.477	83	58038	0.34	PPBV		88
47) 2,4-DIMETHYLPENTANE	8.223	57	46136	0.34	PPBV		99
48) 1,1,1-TRICHLOROETHANE	8.413	97	60433	0.34	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	65062	0.33	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	41098	0.34	PPBV		99
52)	BENZENE	8.859	78	76538	0.34	PPBV		99
53)	CYCLOHEXANE	9.110	84	30877	0.34	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	14658	0.32	PPBV		92
55)	TRICHLOROETHYLENE	9.893	95	37369	0.32	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	33377	0.35	PPBV		96
57)	DIBROMOMETHANE	9.636	174	39103	0.31	PPBV		97
58)	ETHYL ACRYLATE	9.740	55	44771	0.25	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	64038	0.31	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	127085	0.35	PPBV		99
61)	1,4-DIOXANE	9.973	88	17043	0.32	PPBV	#	1
62)	HEPTANE	10.187	43	45917	0.38	PPBV		94
63)	METHYL METHACRYLATE	10.144	69	24229	0.31	PPBV	#	60
64)	METHYL ISOBUTYL KETONE	10.854	58	20298	0.27	PPBV		89
65)	cis-1,3-DICHLOROPROPENE	10.762	75	50330	0.32	PPBV		85
66)	TOLUENE	11.728	92	53175	0.31	PPBV		97
67)	1,3-DICHLOROPROPANE	11.765	76	45275	0.32	PPBV	#	92
68)	trans-1,3-DICHLOROPROPENE	11.300	75	44098	0.30	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.459	83	29376	0.31	PPBV		99
71)	2-HEXANONE	12.077	58	24053	0.25	PPBV		89
72)	ETHYL METHACRYLATE	12.053	69	39133	0.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	42039	0.36	PPBV		97
74)	DIBROMOCHLOROMETHANE	12.157	129	68347	0.33	PPBV		100
75)	1,2-DIBROMOETHANE	12.401	107	57560	0.36	PPBV		99
76)	OCTANE	12.750	43	57196	0.37	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	44229	0.34	PPBV		99
78)	CHLOROBENZENE	13.588	112	76482	0.36	PPBV		99
79)	ETHYLBENZENE	13.992	91	119442	0.37	PPBV		98
80)	m,p-XYLENE	14.175	106	91065	0.70	PPBV		98
81)	o-XYLENE	14.683	106	43793	0.35	PPBV		94
82)	STYRENE	14.585	104	68779	0.36	PPBV		91
83)	NONANE	14.934	43	61419	0.39	PPBV		97
84)	BROMOFORM	14.255	173	65517	0.31	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	78542	0.37	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.830	75	59513	0.37	PPBV		94
88)	ISOPROPYLBENZENE	15.301	105	132085	0.35	PPBV		99
89)	BROMOBENZENE	15.381	77	64086	0.34	PPBV		99
90)	2-CHLOROTOLUENE	15.778	126	34084	0.33	PPBV		96
91)	n-PROPYLBENZENE	15.821	120	35058	0.34	PPBV		100
92)	4-ETHYLTOLUENE	15.968	105	126699	0.35	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	115870	0.38	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.206	118	51966	0.31	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	23128	0.35	PPBV		93
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	112549	0.37	PPBV		98
97)	m-DICHLOROBENZENE	16.586	146	80323	0.33	PPBV		99
98)	BENZYL CHLORIDE	16.580	91	94193	0.31	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	89982	0.38	PPBV		99
100)	sec-BUTYLBENZENE	16.702	134	28746	0.34	PPBV	#	87
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	117540	0.37	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	34620	0.35	PPBV		94
103)	o-DICHLOROBENZENE	16.983	146	81336	0.35	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	31100	0.32	PPBV	#	83
105)	HEXACHLOROETHANE	17.607	117	56860	0.36	PPBV		98
106)	HEXACHLOROBUTADIENE	18.966	225	78824	0.35	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.892	180	74442	0.33	PPBV		99
108)	NAPHTHALENE	18.672	128	165689	0.33	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	163703	0.37	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

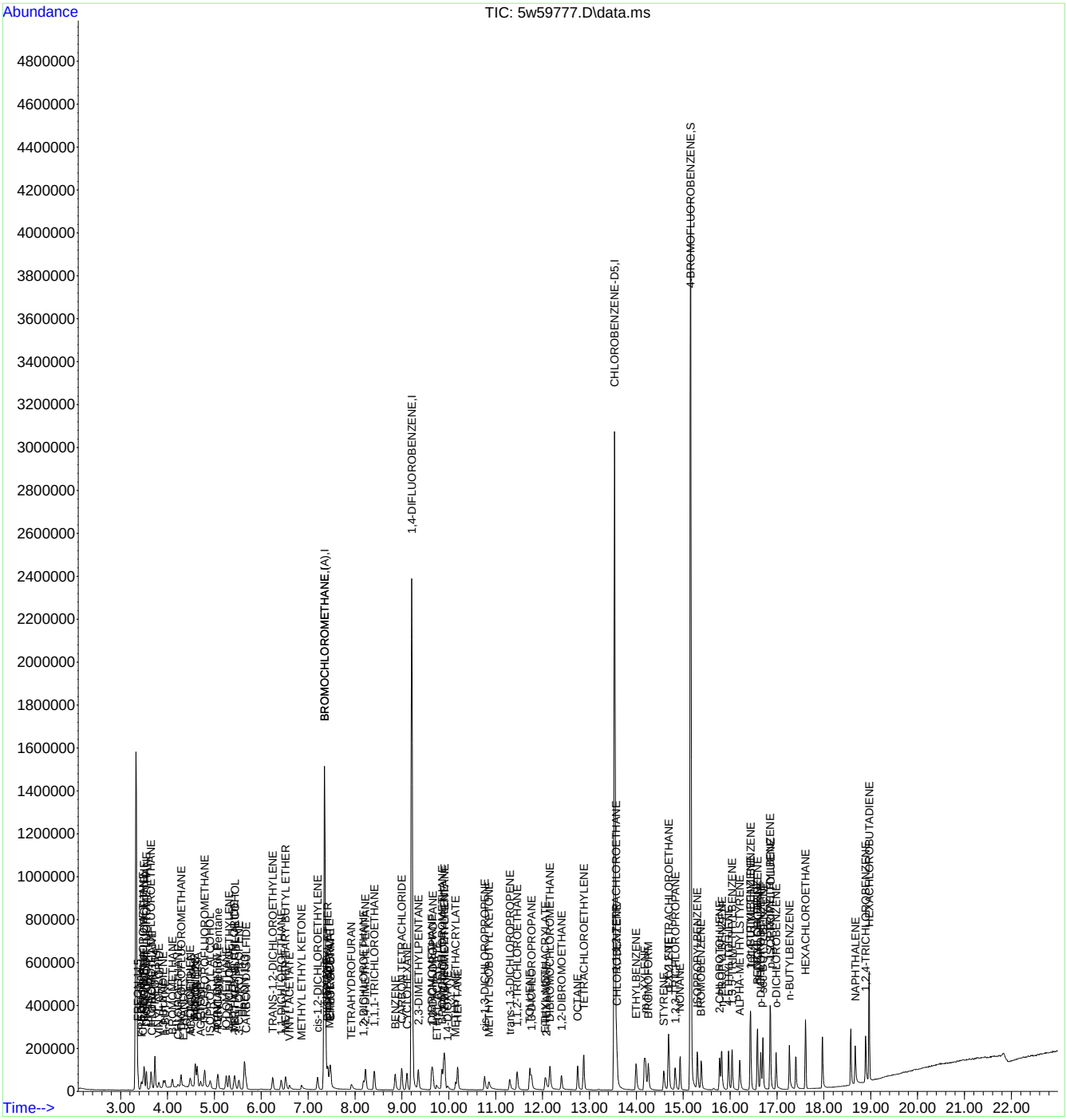
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

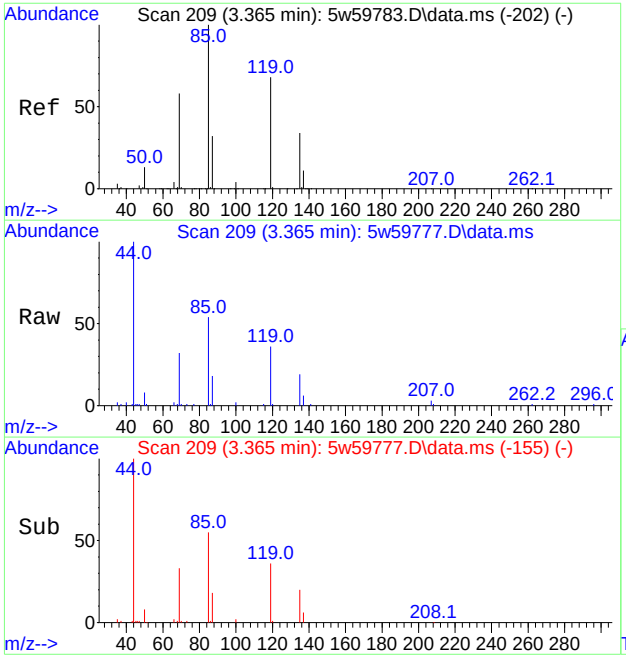
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

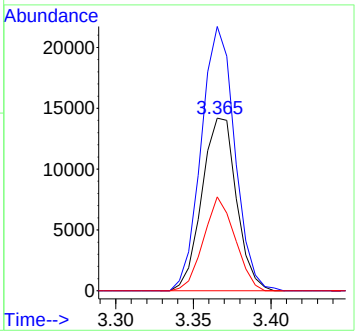


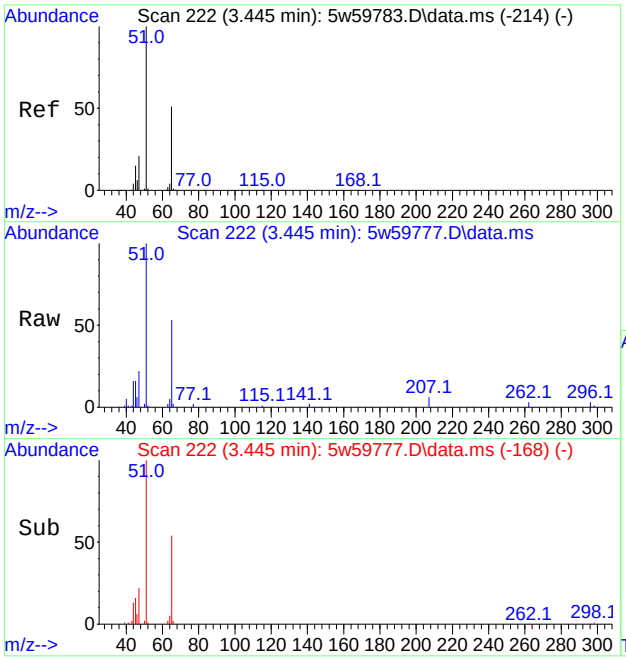


#2
FREON 115
Concen: 0.27 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:119 Resp: 21944

Ion	Ratio	Lower	Upper
119	100		
85	148.6	116.2	176.2
135	49.6	20.6	80.6

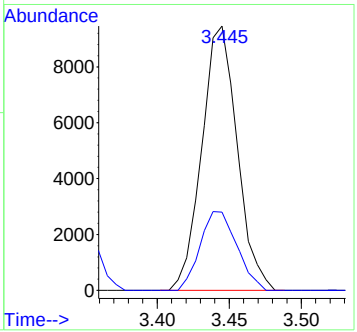


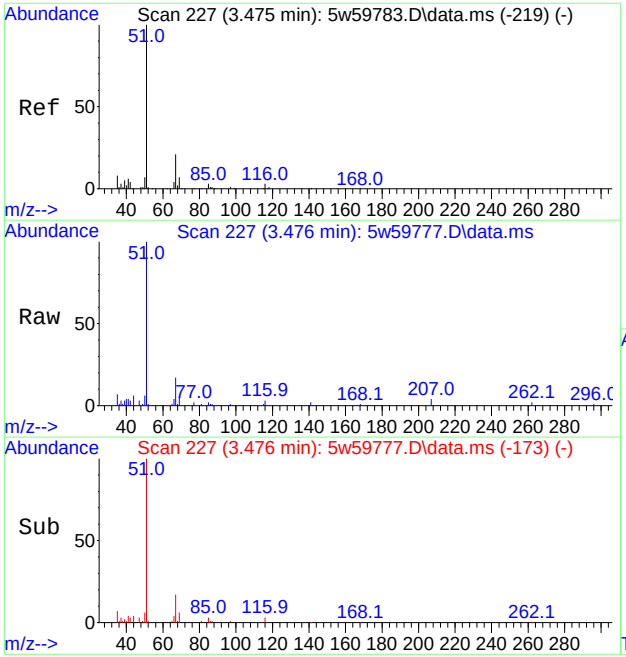


#3
FREON 152A
Concen: 0.33 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 16180

Ion	Ratio	Lower	Upper
65	100		
45	31.0	0.0	60.0

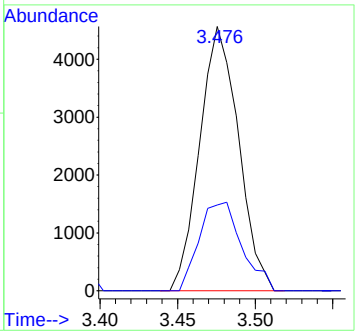


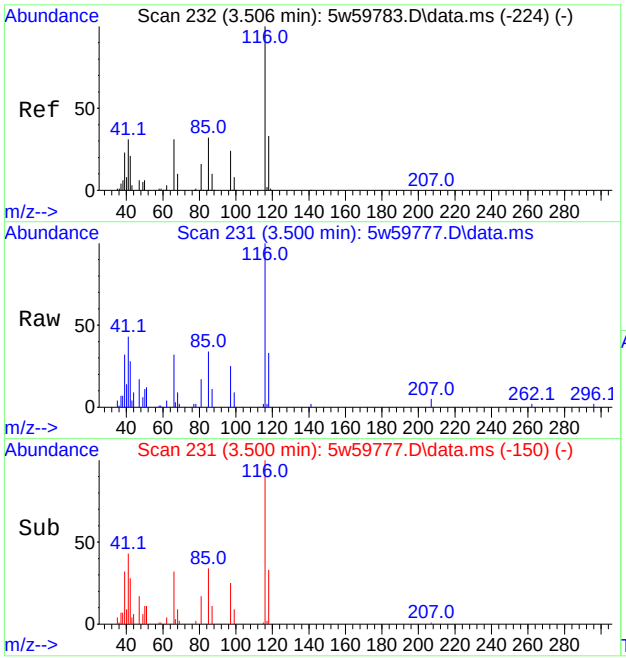


#4
CHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 7935

Ion	Ratio	Lower	Upper
67	100		
69	32.4	1.0	61.0

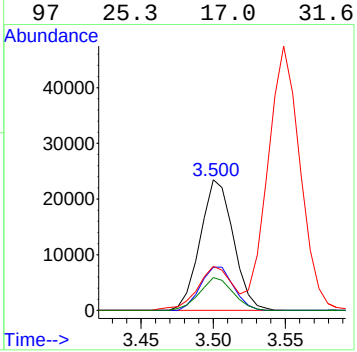


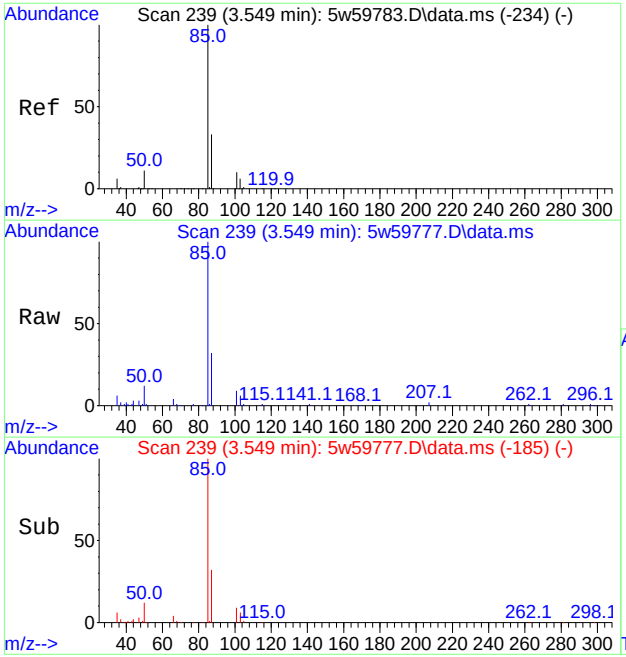


#5
CHLOROTRIFLUOROETHENE
Concen: 0.32 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:116 Resp: 37384

Ion	Ratio	Lower	Upper
116	100		
118	33.2	22.9	42.5
85	35.1	23.7	44.1
97	25.3	17.0	31.6

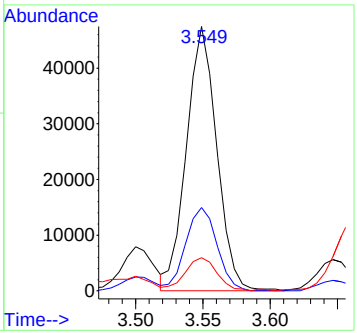


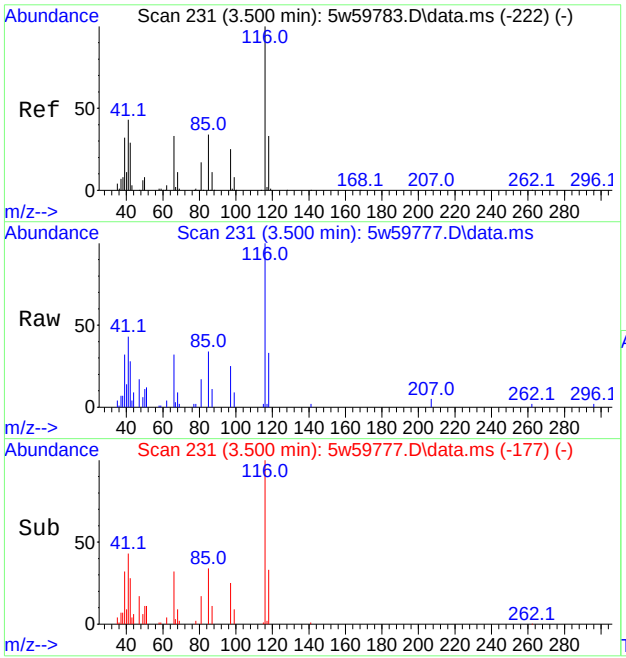


#6
DICHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 74611

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	13.2	0.0	41.7

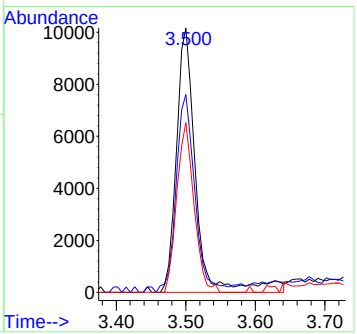


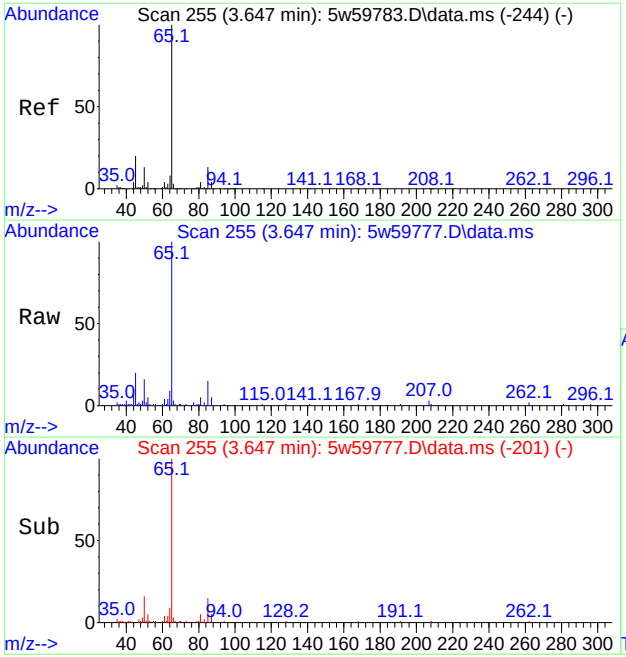


#7
PROPYLENE
Concen: 0.39 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 19764

Ion	Ratio	Lower	Upper
41	100		
39	87.7	45.1	105.1
42	56.8	36.3	96.3

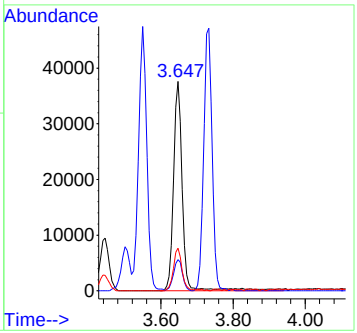


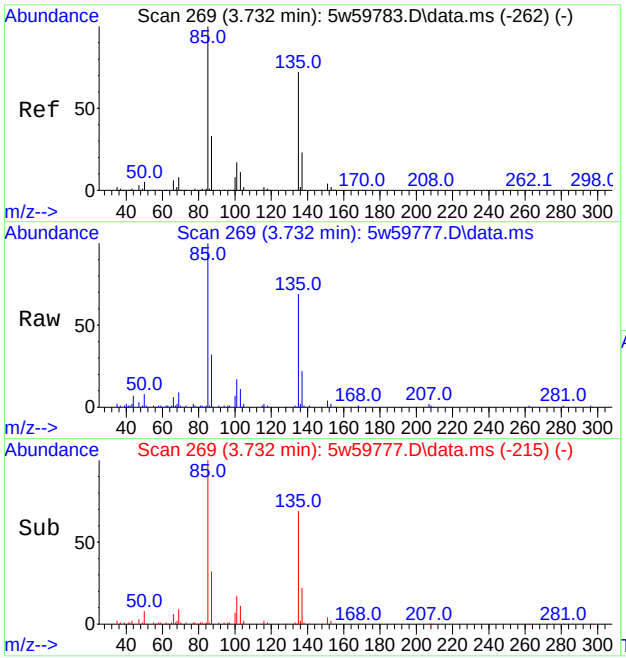


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.39 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 65023

Ion	Ratio	Lower	Upper
65	100		
85	15.0	11.5	21.3
45	20.1	14.0	26.0

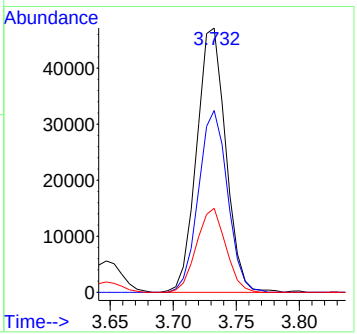


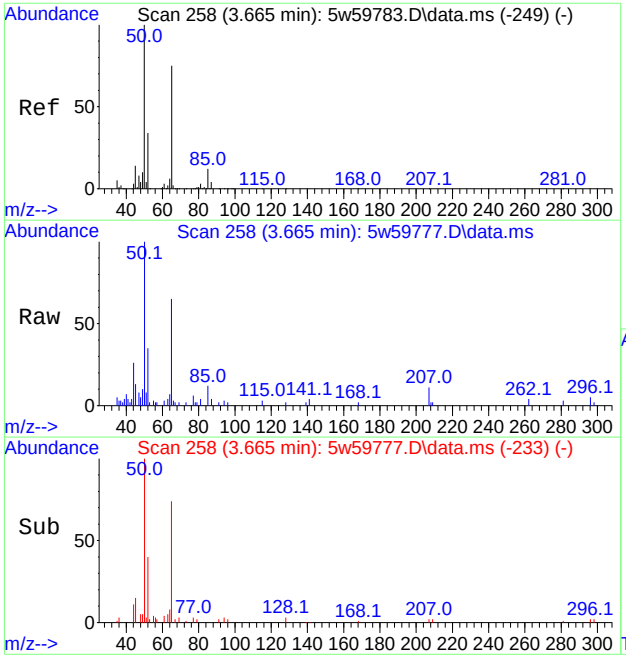


#9
FREON 114
Concen: 0.38 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 75616

Ion	Ratio	Lower	Upper
85	100		
135	68.6	40.5	100.5
87	31.9	3.0	63.0

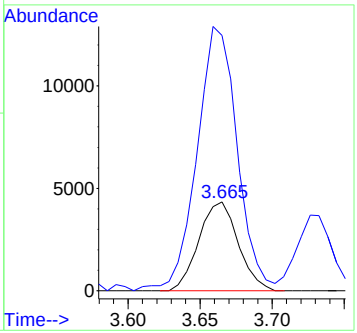


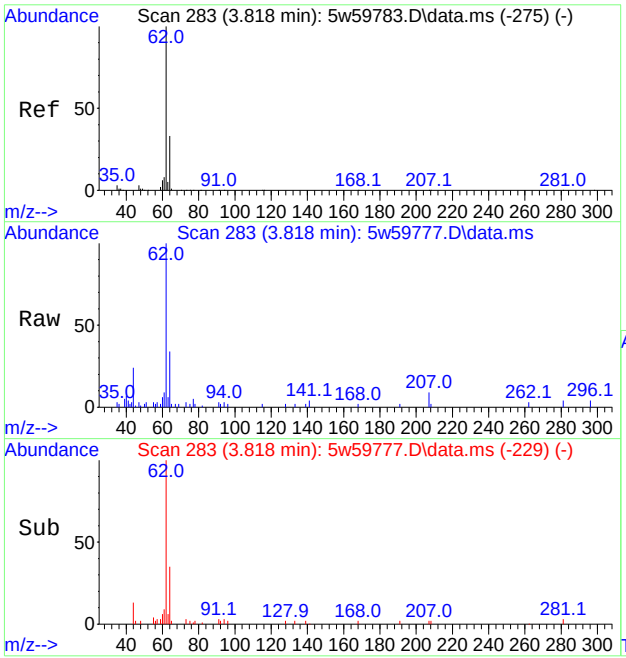


#10
CHLOROMETHANE
Concen: 0.38 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 8248

Ion	Ratio	Lower	Upper
52	100		
50	276.5	267.9	327.9

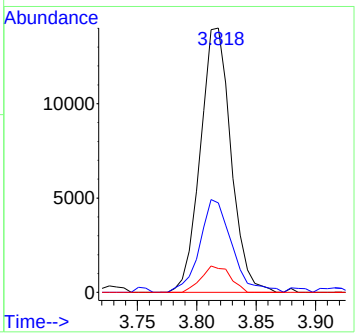


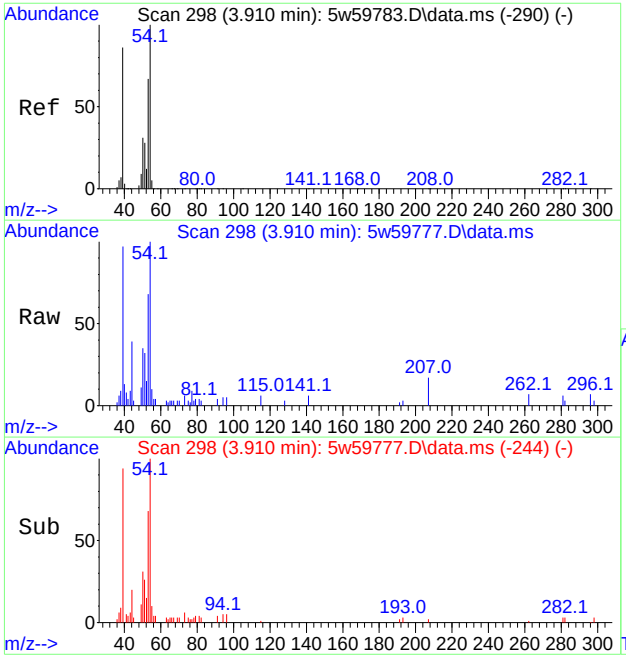


#11
VINYL CHLORIDE
Concen: 0.33 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 25119

Ion	Ratio	Lower	Upper
62	100		
64	36.8	3.6	63.6
61	9.4	0.0	38.2

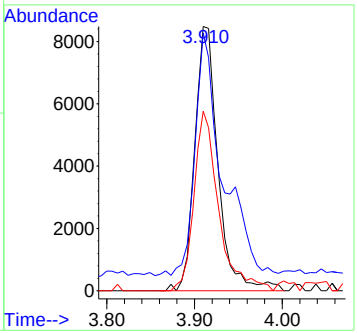


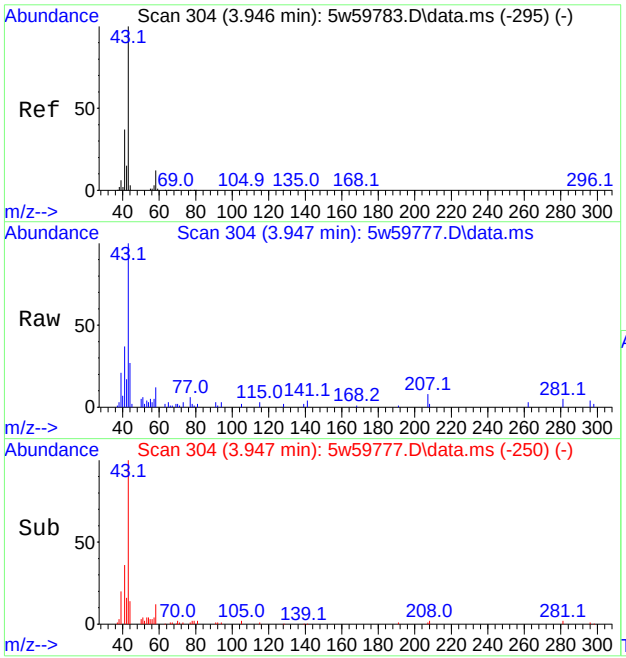


#12
1,3-BUTADIENE
Concen: 0.37 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 54 Resp: 15745

Ion	Ratio	Lower	Upper
54	100		
39	115.9	82.0	142.0
53	71.6	40.2	100.2

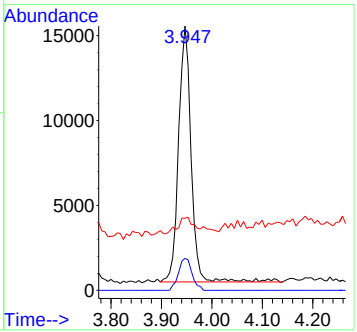


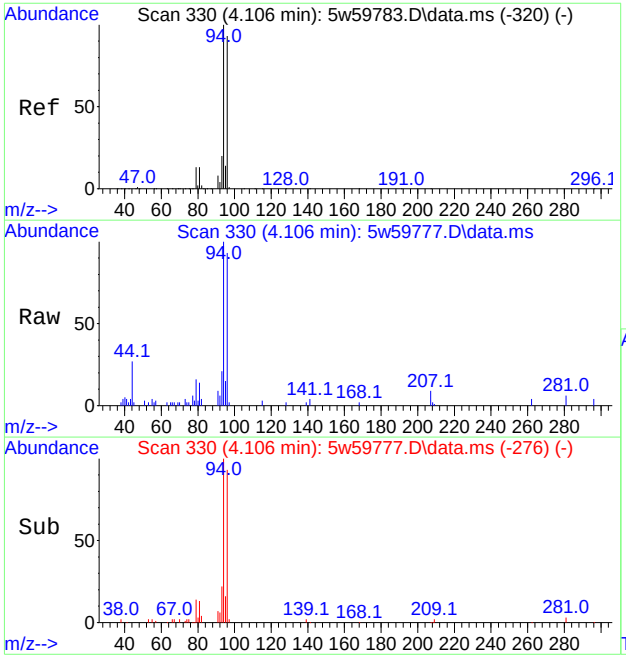


#13
n-BUTANE
Concen: 0.38 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 26092

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	0.0	0.0	34.9

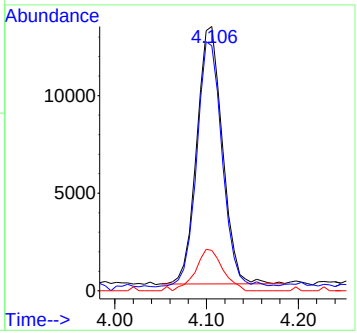


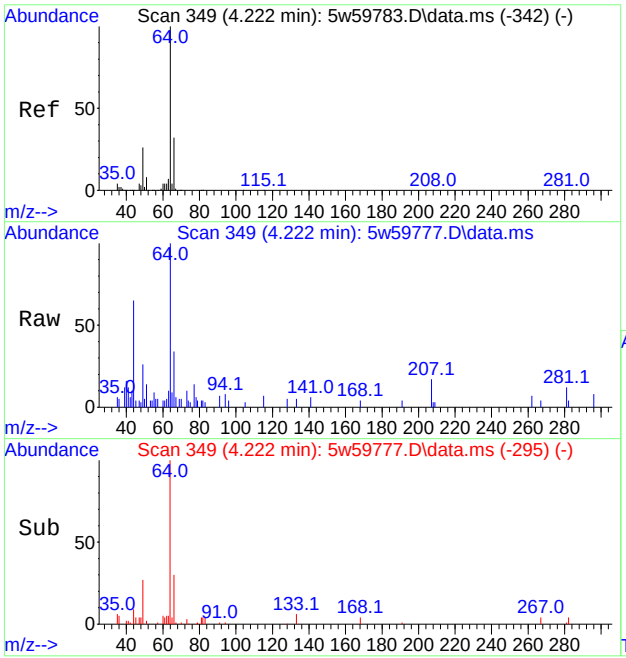


#14
BROMOMETHANE
Concen: 0.33 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 94 Resp: 25633

Ion	Ratio	Lower	Upper
94	100		
96	111.8	65.3	125.3
95	17.3	0.0	44.1

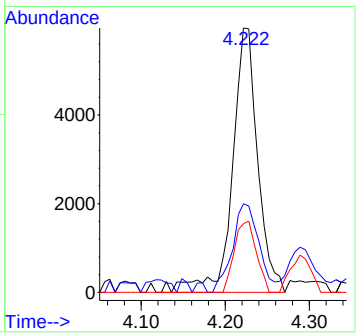


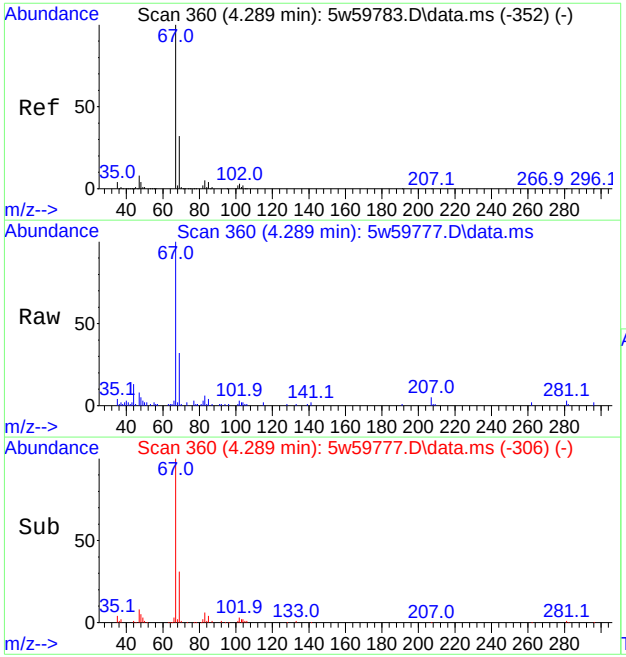


#15
CHLOROETHANE
Concen: 0.39 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 64 Resp: 12538

Ion	Ratio	Lower	Upper
64	100		
66	34.9	3.1	63.1
49	23.3	0.0	55.3

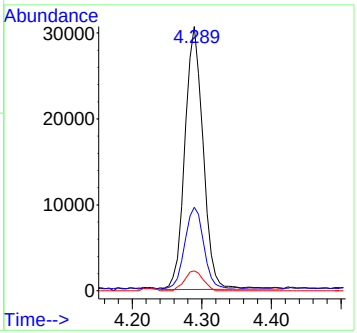


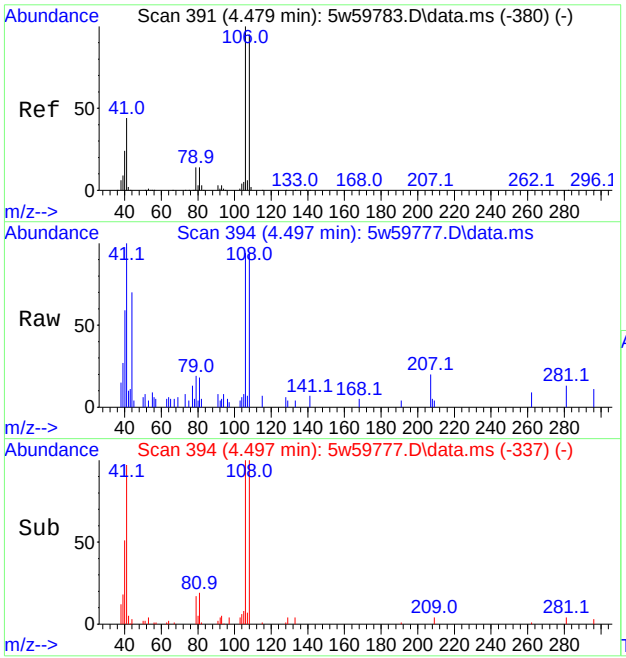


#16
DICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 56285

Ion	Ratio	Lower	Upper
67	100		
69	34.4	22.7	42.3
47	7.6	5.6	10.4

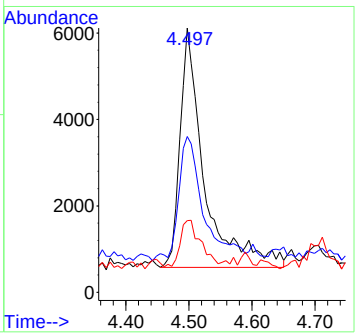


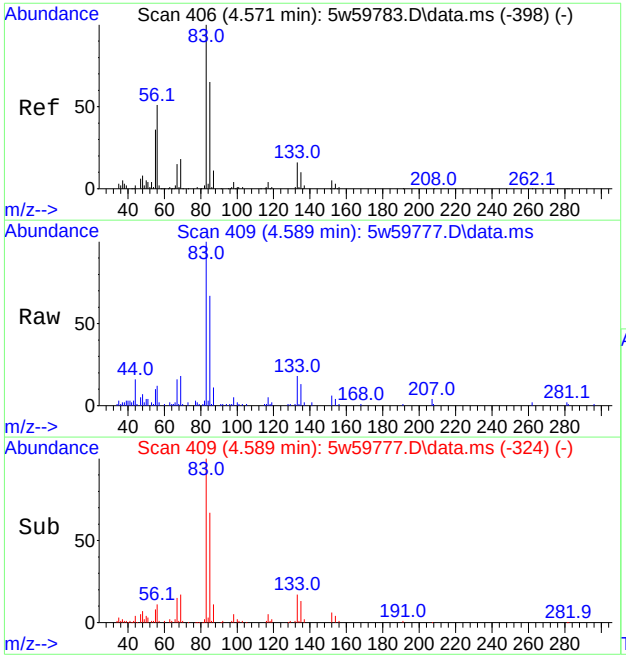


#17
ACETONITRILE
Concen: 0.37 PPBV
RT: 4.497 min Scan# 394
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 14827

Ion	Ratio	Lower	Upper
41	100		
40	55.5	37.9	70.5
39	17.7	13.4	24.8

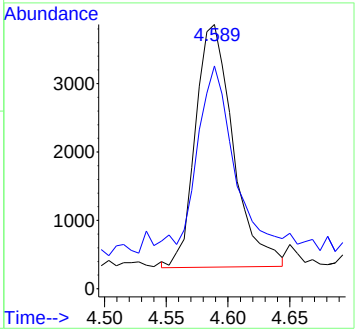


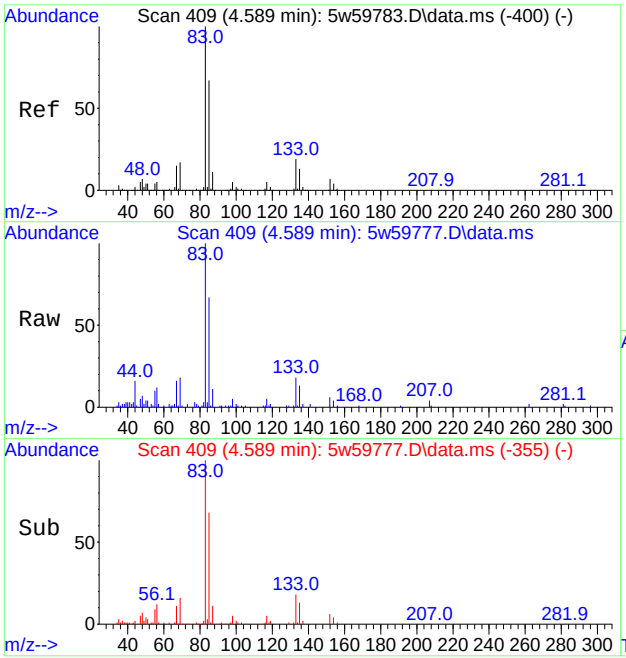


#18
ACROLEIN
Concen: 0.30 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 56 Resp: 7542

Ion	Ratio	Lower	Upper
56	100		
55	78.8	46.6	86.6

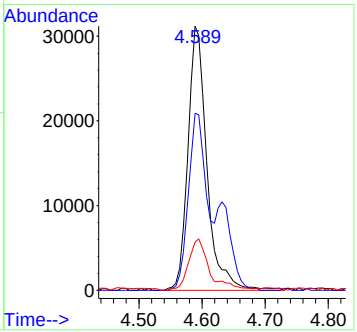


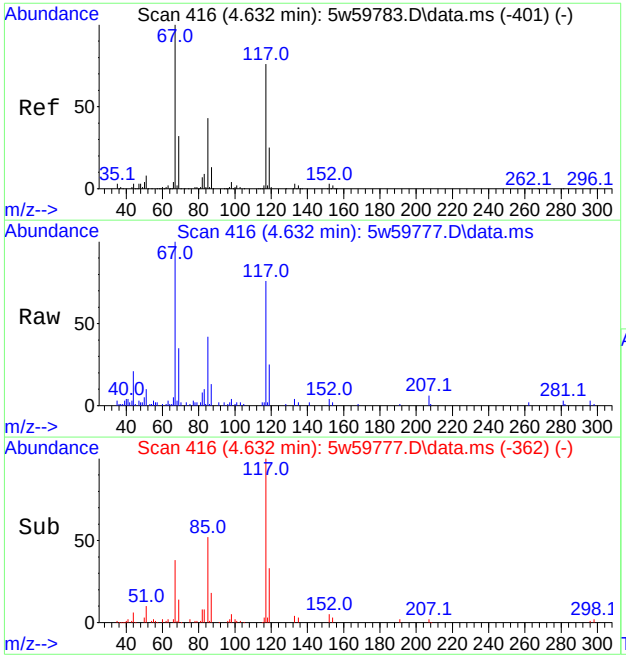


#19
FREON 123
Concen: 0.37 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 65470

Ion	Ratio	Lower	Upper
83	100		
85	65.8	34.0	94.0
133	22.6	0.0	50.7

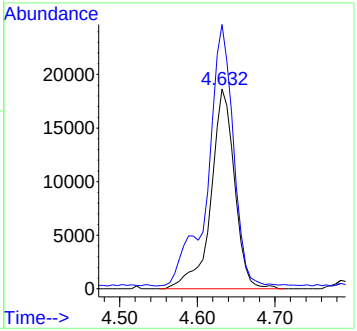


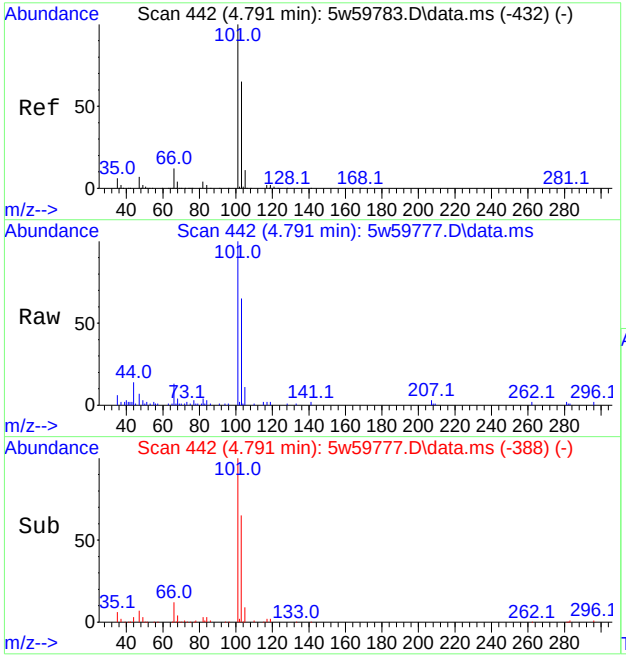


#20
FREON 123A
Concen: 0.38 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 39245

Ion	Ratio	Lower	Upper
117	100		
67	143.3	114.6	174.6

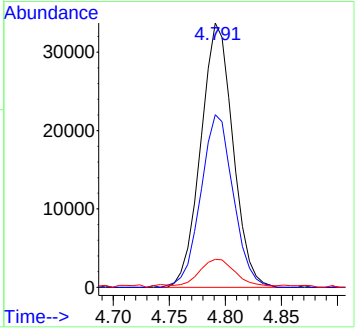


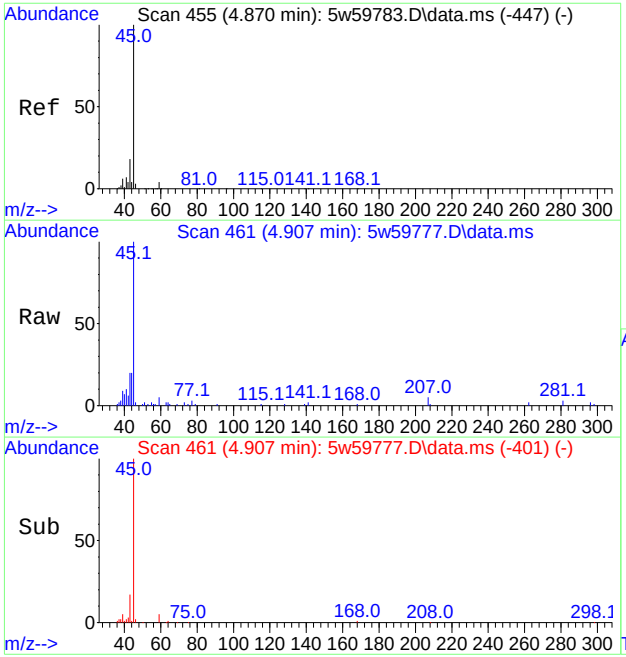


#21
TRICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:101 Resp: 67375

Ion	Ratio	Lower	Upper
101	100		
103	66.3	35.0	95.0
105	12.9	0.0	40.7

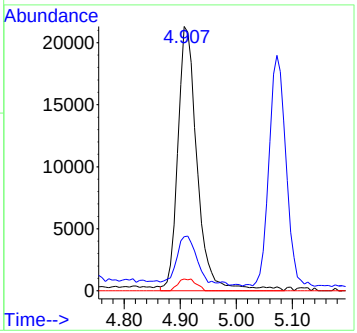


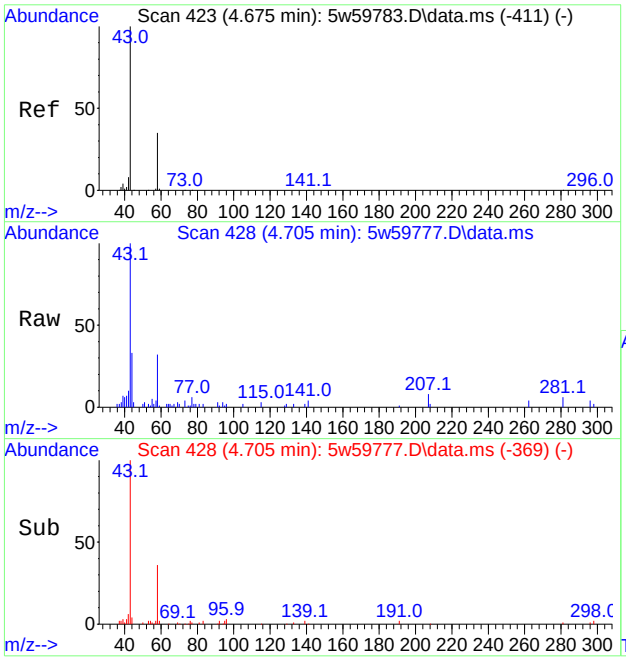


#22
ISOPROPYL ALCOHOL
Concen: 0.37 PPBV
RT: 4.907 min Scan# 461
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 51138

Ion	Ratio	Lower	Upper
45	100		
43	20.4	0.0	47.8
59	4.5	0.0	34.1

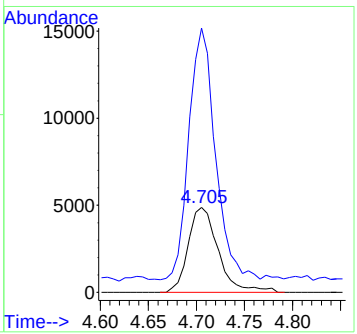


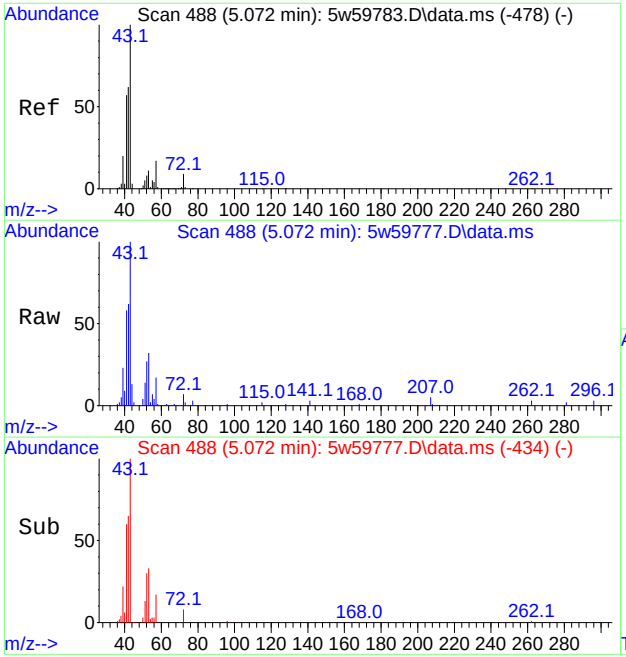


#23
ACETONE
Concen: 0.38 PPBV
RT: 4.705 min Scan# 428
Delta R.T. 0.030 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 10630

Ion	Ratio	Lower	Upper
58	100		
43	277.1	252.3	312.3

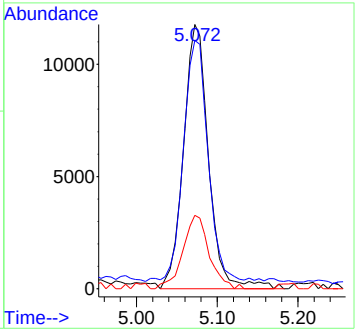


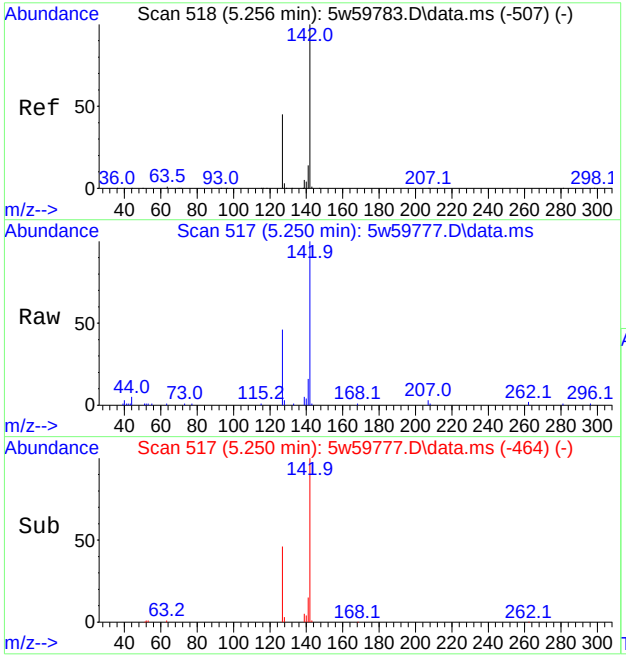


#24
PENTANE
Concen: 0.38 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 42 Resp: 25466

Ion	Ratio	Lower	Upper
42	100		
41	92.5	62.3	122.3
57	29.1	0.0	57.7

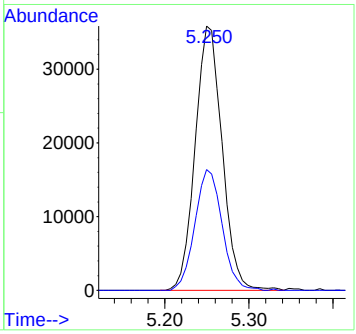


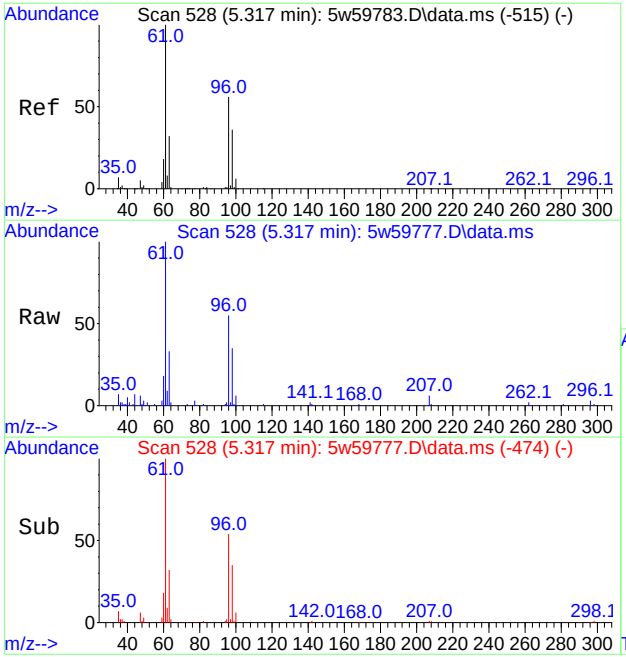


#25
IODOMETHANE
Concen: 0.35 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:142 Resp: 79998

Ion	Ratio	Lower	Upper
142	100		
127	46.1	16.0	76.0

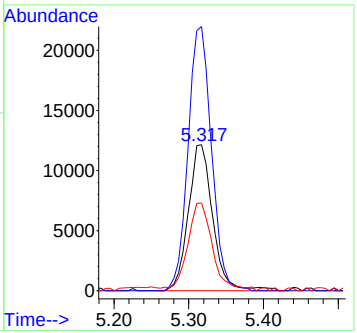


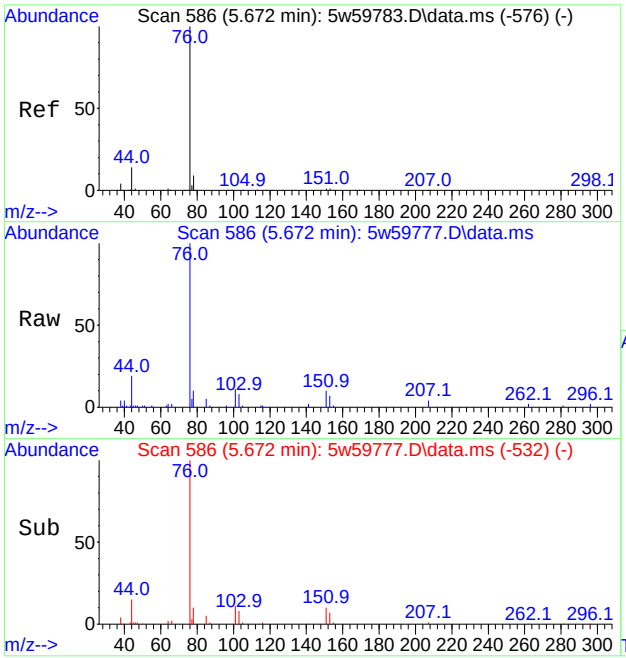


#26
1,1-DICHLOROETHYLENE
Concen: 0.36 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 27579

Ion	Ratio	Lower	Upper
96	100		
61	173.2	148.5	208.5
63	60.6	27.4	87.4

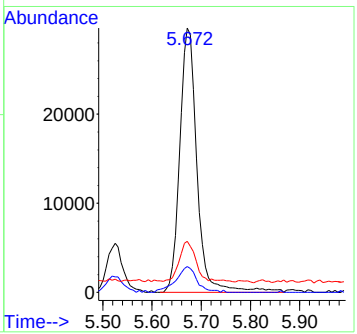


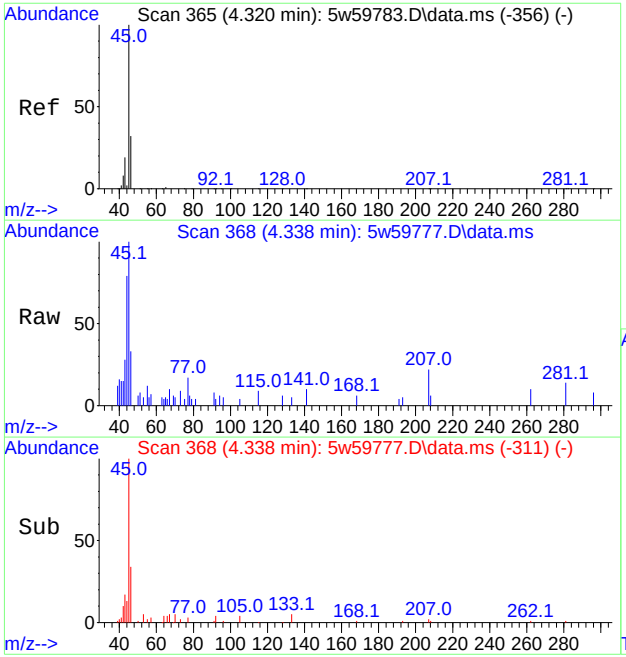


#27
CARBON DISULFIDE
Concen: 0.34 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 72450

Ion	Ratio	Lower	Upper
76	100		
78	11.8	0.0	41.5
44	15.1	0.0	44.6

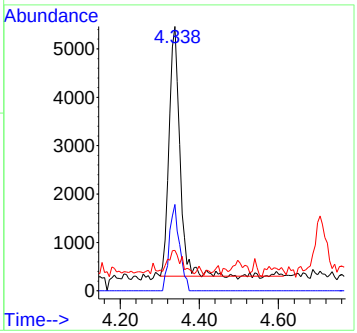


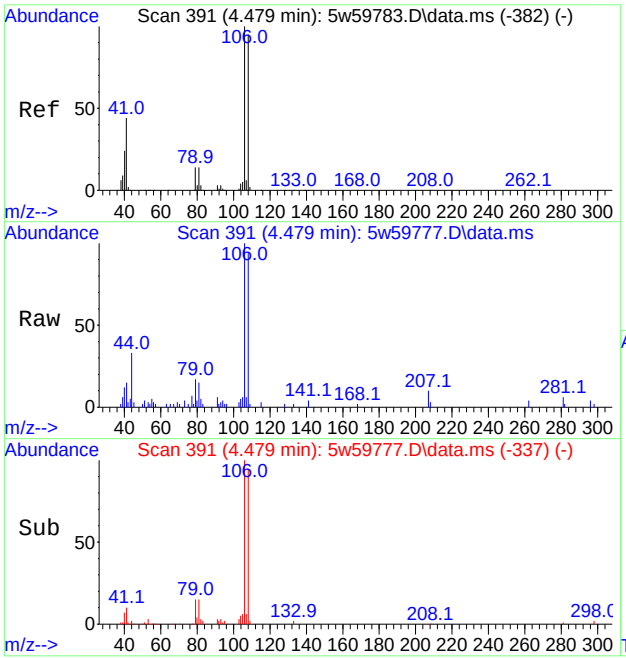


#28
ETHANOL
Concen: 0.39 PPBV
RT: 4.338 min Scan# 368
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 9883

Ion	Ratio	Lower	Upper
45	100		
46	32.7	2.0	62.0
42	12.7	0.0	38.5

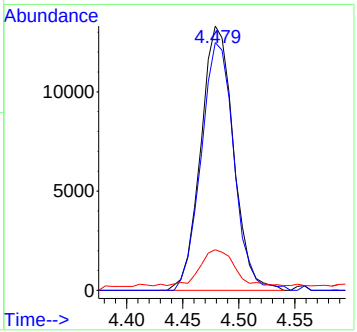


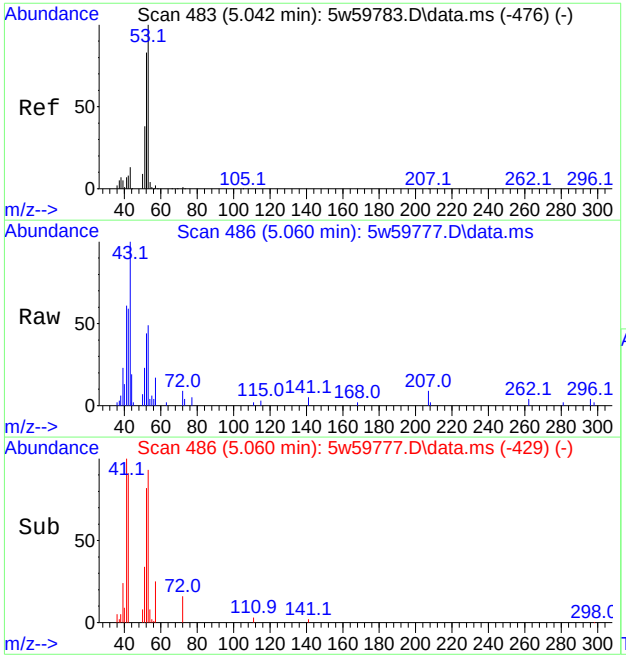


#29
BROMOETHENE
Concen: 0.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 27007

Ion	Ratio	Lower	Upper
106	100		
108	93.9	65.6	125.6
81	13.1	0.0	43.9

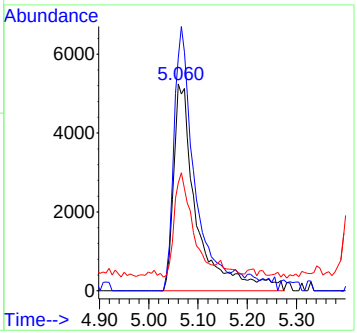


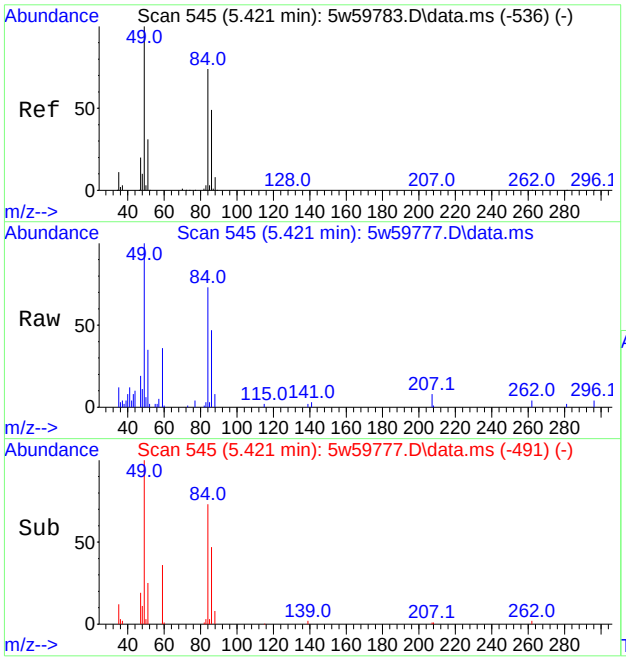


#30
ACRYLONITRILE
Concen: 0.37 PPBV
RT: 5.060 min Scan# 486
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 17143

Ion	Ratio	Lower	Upper
52	100		
53	123.5	85.8	159.4
51	43.9	32.3	60.1

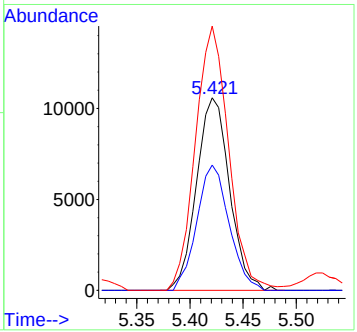


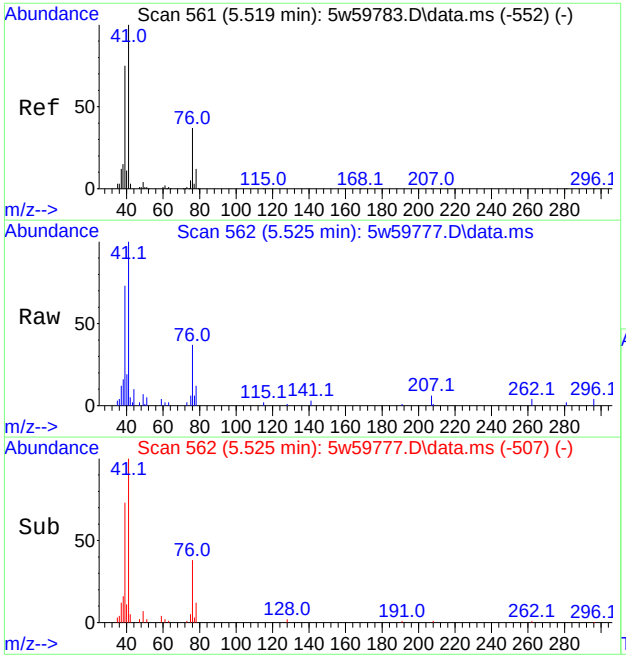


#31
METHYLENE CHLORIDE
Concen: 0.34 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 22923

Ion	Ratio	Lower	Upper
84	100		
86	63.7	35.2	95.2
49	138.4	105.3	165.3

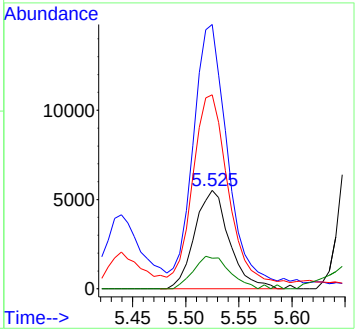


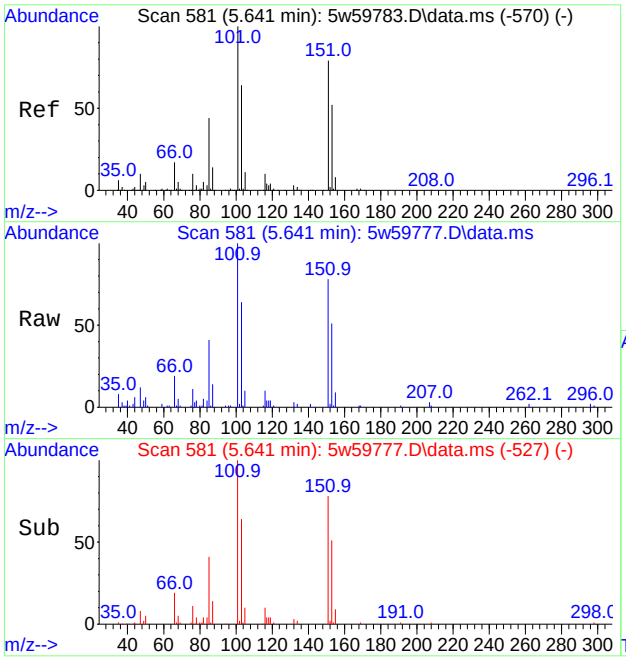


#32
3-CHLOROPROPENE
Concen: 0.36 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 12479

Ion	Ratio	Lower	Upper
76	100		
41	307.5	240.8	300.8#
39	198.9	173.6	233.6
78	34.4	2.8	62.8

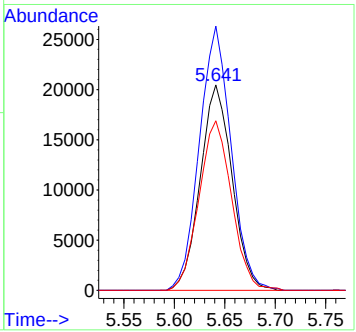


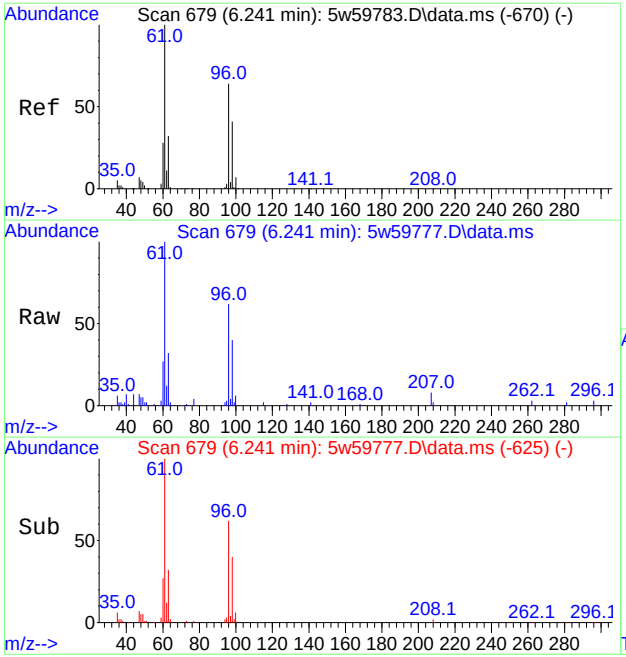


#33
FREON 113
Concen: 0.33 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:151 Resp: 45001

Ion	Ratio	Lower	Upper
151	100		
101	128.1	97.5	157.5
103	84.5	52.5	112.5

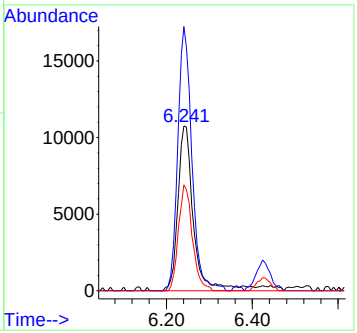


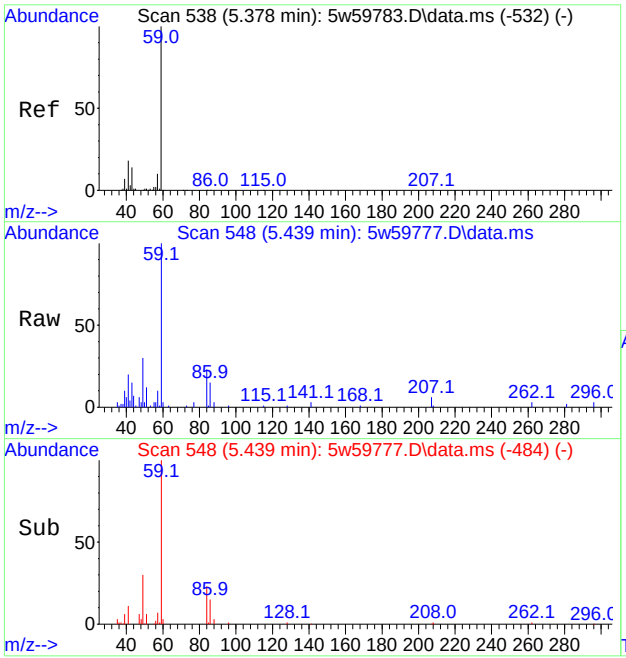


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 28115

Ion	Ratio	Lower	Upper
96	100		
61	139.5	126.4	186.4
98	55.2	34.1	94.1

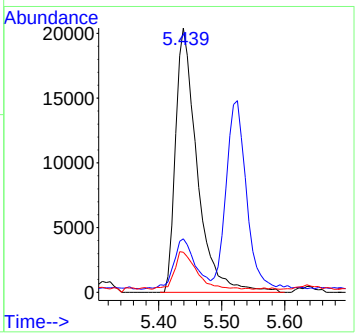


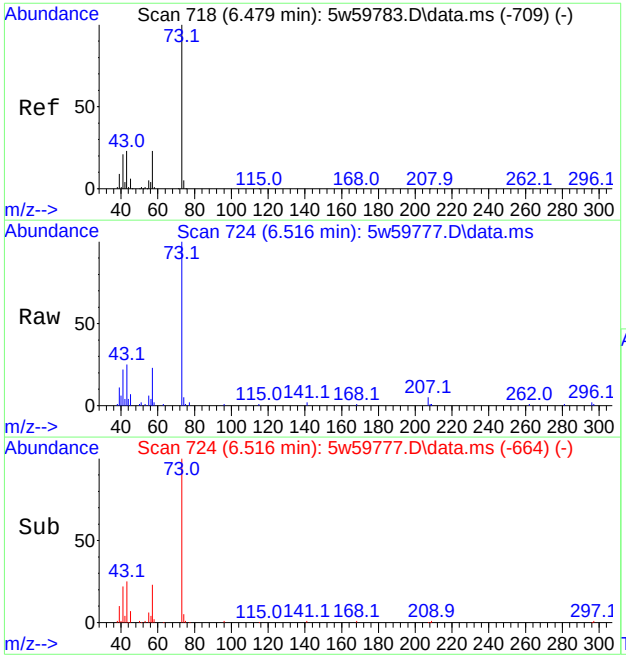


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.31 PPBV
RT: 5.439 min Scan# 548
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 48711

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	17.9	0.0	44.1

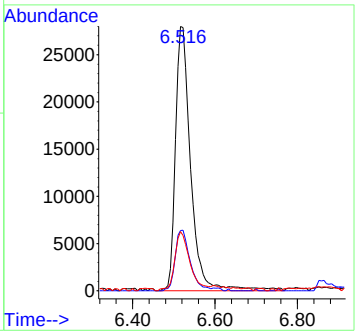


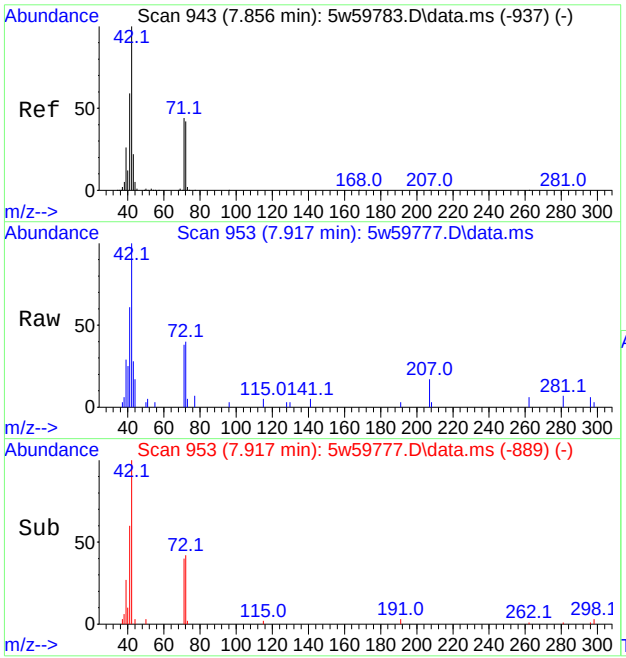


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.36 PPBV
RT: 6.516 min Scan# 724
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 73 Resp: 72222

Ion	Ratio	Lower	Upper
73	100		
57	22.9	0.0	53.1
41	25.0	0.0	50.6

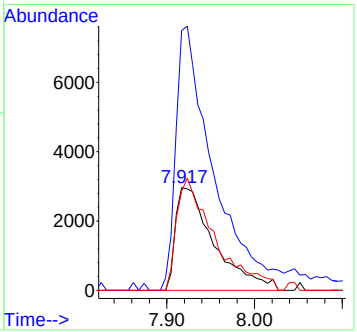


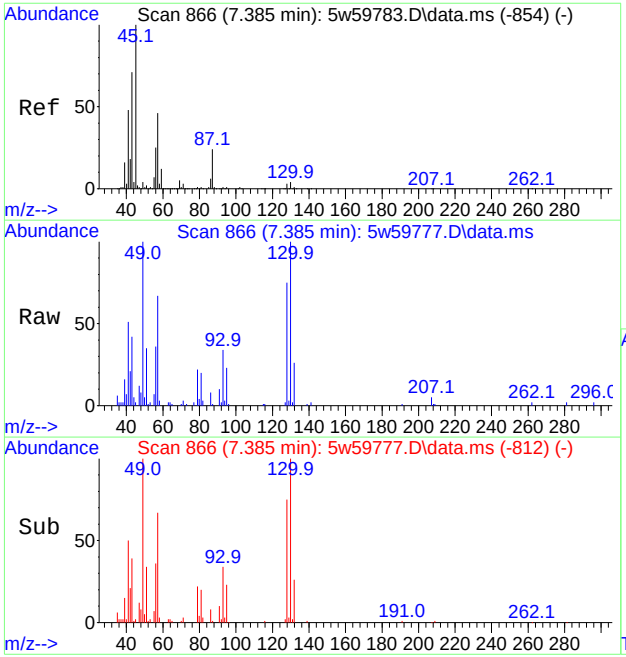


#37
TETRAHYDROFURAN
Concen: 0.29 PPBV
RT: 7.917 min Scan# 953
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9128

Ion	Ratio	Lower	Upper
72	100		
42	273.5	202.4	262.4#
71	107.4	71.1	131.1

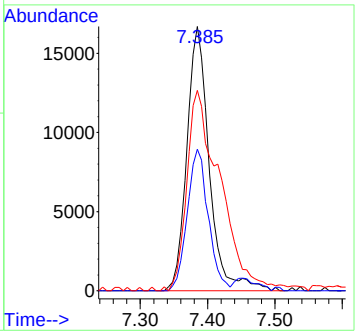


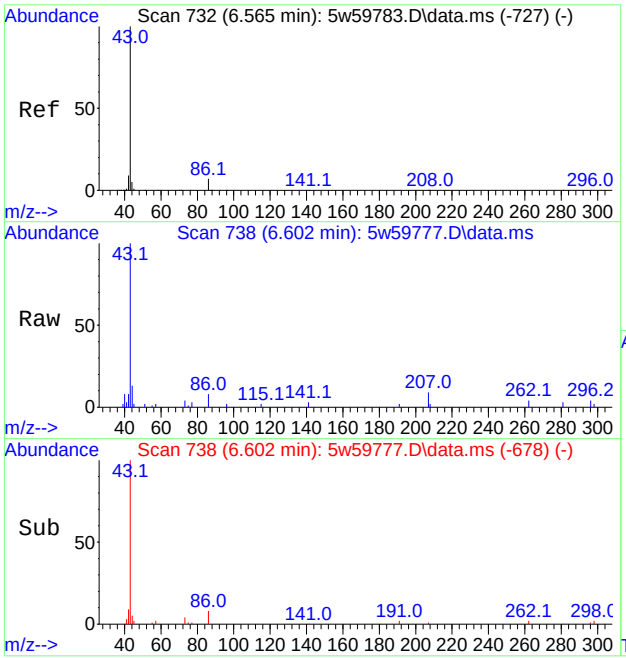


#38
HEXANE
Concen: 0.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 38643

Ion	Ratio	Lower	Upper
57	100		
56	50.3	25.9	85.9
41	113.5	74.7	134.7

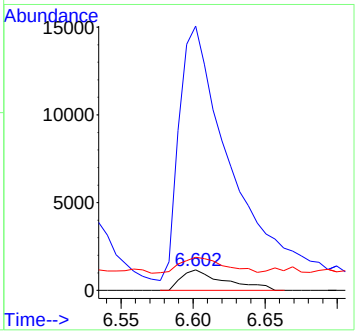


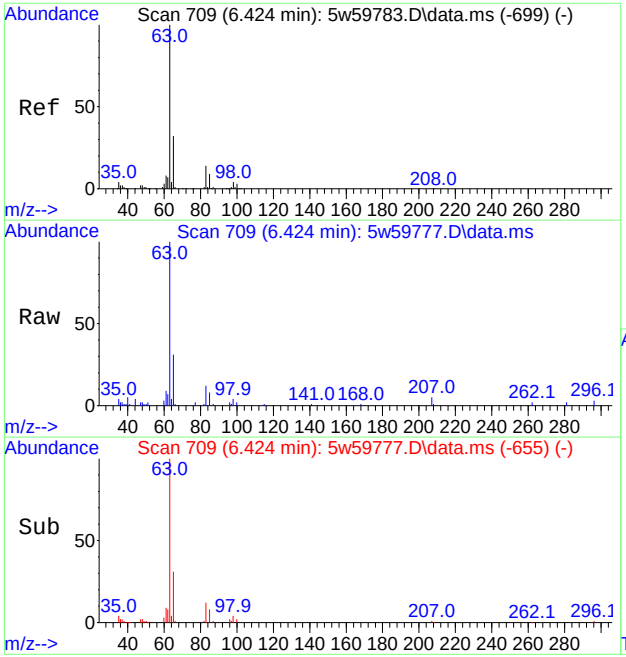


#39
VINYL ACETATE
Concen: 0.19 PPBV
RT: 6.602 min Scan# 738
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 86 Resp: 2461

Ion	Ratio	Lower	Upper
86	100		
43	1595.3	1379.7	1439.7#
44	82.6	36.9	96.9

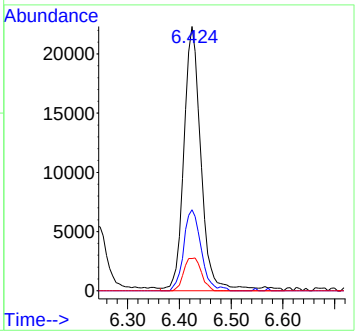


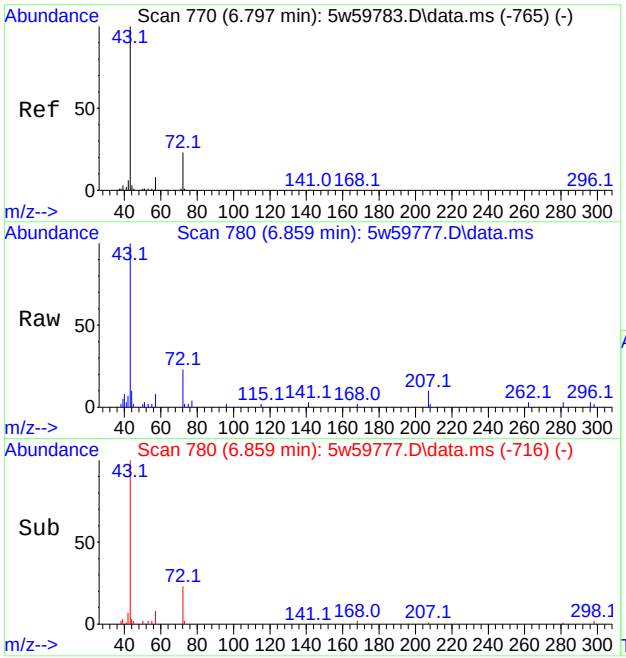


#40
1,1-DICHLOROETHANE
Concen: 0.36 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 51689

Ion	Ratio	Lower	Upper
63	100		
65	31.0	1.7	61.7
83	12.6	0.0	43.5

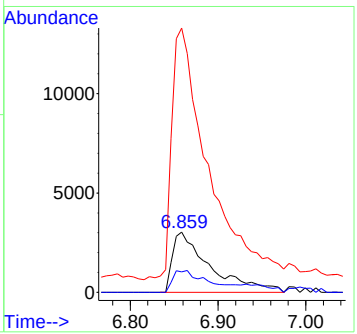


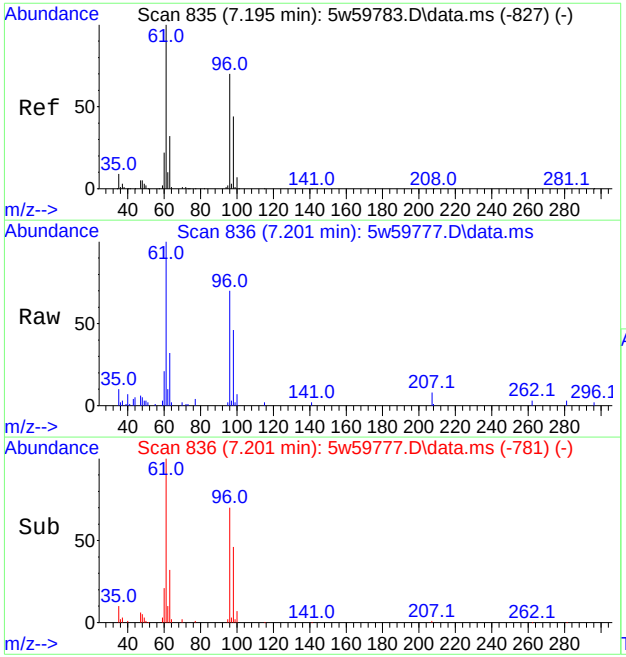


#41
METHYL ETHYL KETONE
Concen: 0.28 PPBV
RT: 6.859 min Scan# 780
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9022

Ion	Ratio	Lower	Upper
72	100		
57	34.2	4.8	64.8
43	439.2	415.9	475.9

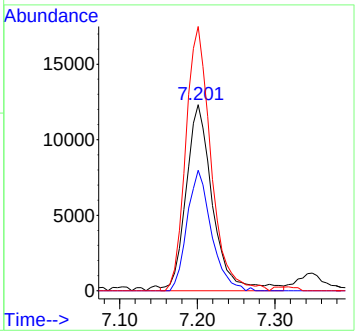


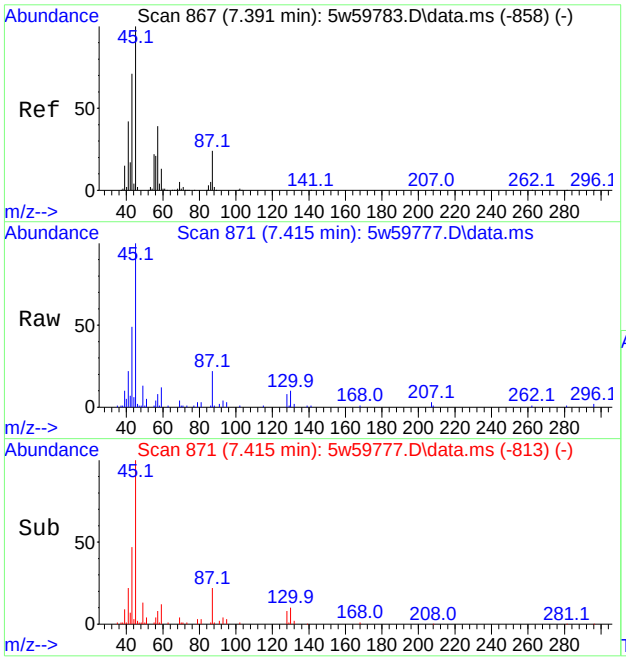


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 29380

Ion	Ratio	Lower	Upper
96	100		
98	59.0	34.0	94.0
61	133.9	111.5	171.5

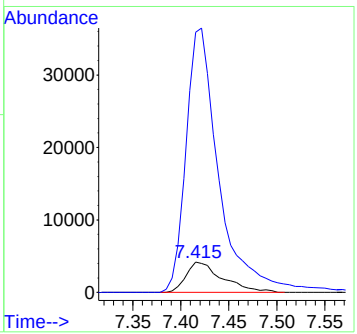


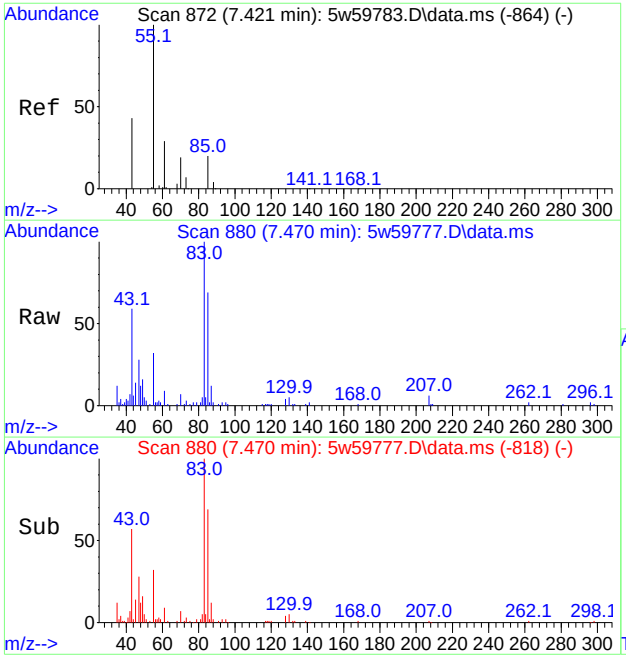


#43
DIISOPROPYL ETHER
Concen: 0.31 PPBV
RT: 7.415 min Scan# 871
Delta R.T. 0.024 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 10994

Ion	Ratio	Lower	Upper
59	100		
45	807.5	720.9	780.9#

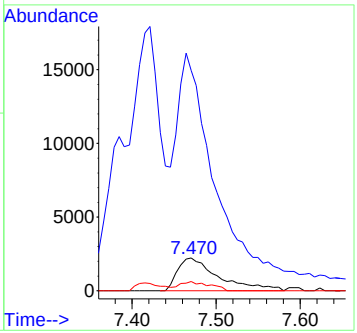


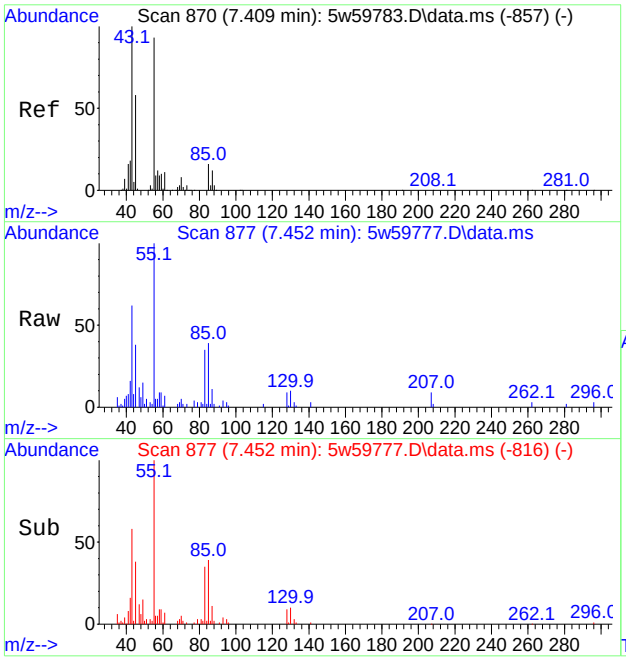


#44
ETHYL ACETATE
Concen: 0.29 PPBV
RT: 7.470 min Scan# 880
Delta R.T. 0.049 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 61 Resp: 7547

Ion	Ratio	Lower	Upper
61	100		
43	674.6	560.5	620.5#
88	20.6	4.5	64.5

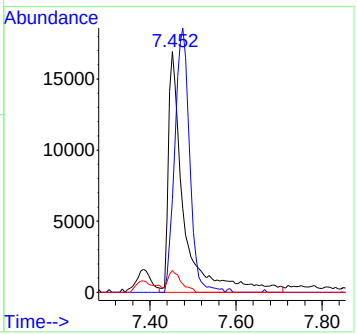


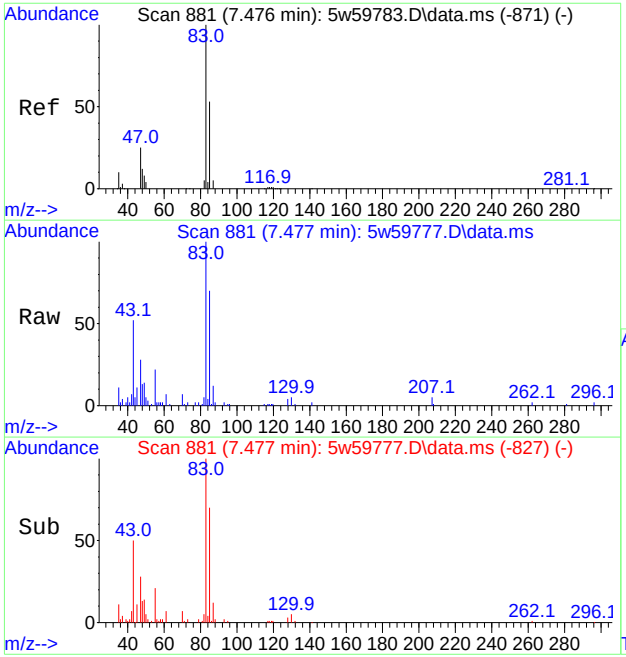


#45
METHYL ACRYLATE
Concen: 0.30 PPBV m
RT: 7.452 min Scan# 877
Delta R.T. 0.043 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 42153

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	6.0	9.4	17.6#

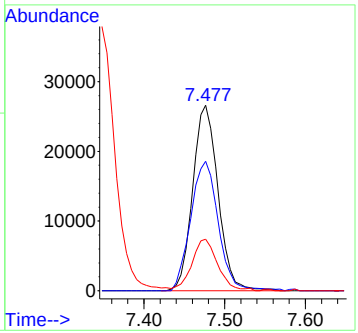


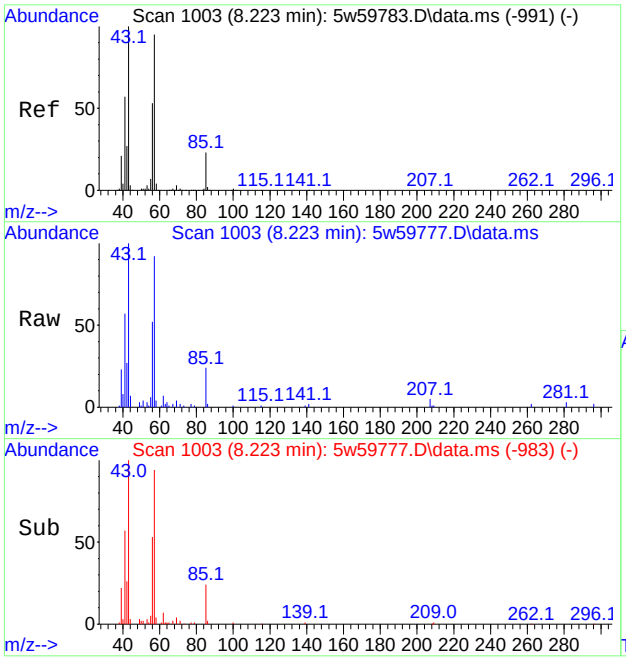


#46
CHLOROFORM
Concen: 0.34 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 58038

Ion	Ratio	Lower	Upper
83	100		
85	76.4	35.6	95.6
47	28.3	0.0	55.2

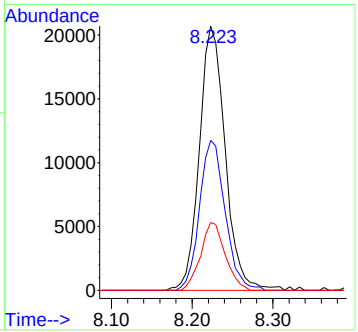


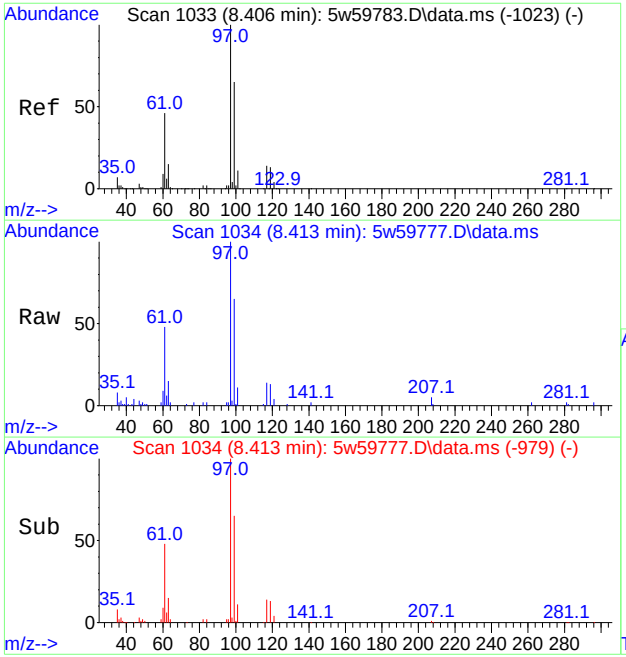


#47
2,4-DIMETHYLPENTANE
Concen: 0.34 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 46136

Ion	Ratio	Lower	Upper
57	100		
56	56.2	26.5	86.5
85	24.4	0.0	53.8

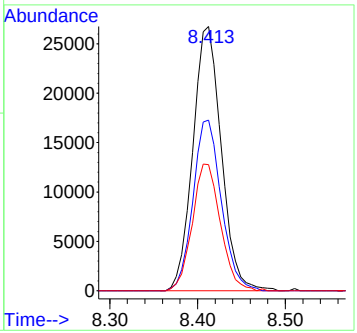


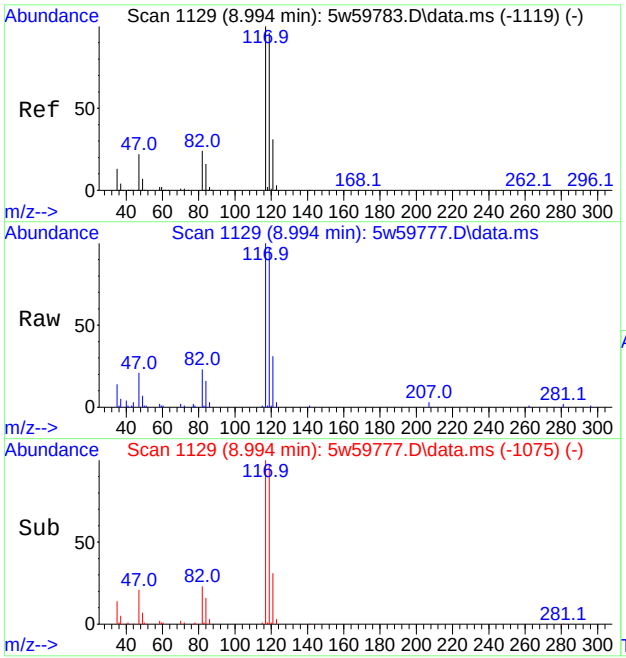


#48
1,1,1-TRICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 97 Resp: 60433

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.8	94.8
61	47.5	15.8	75.8

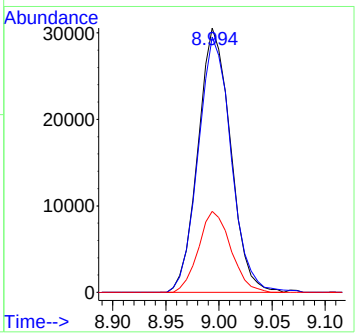


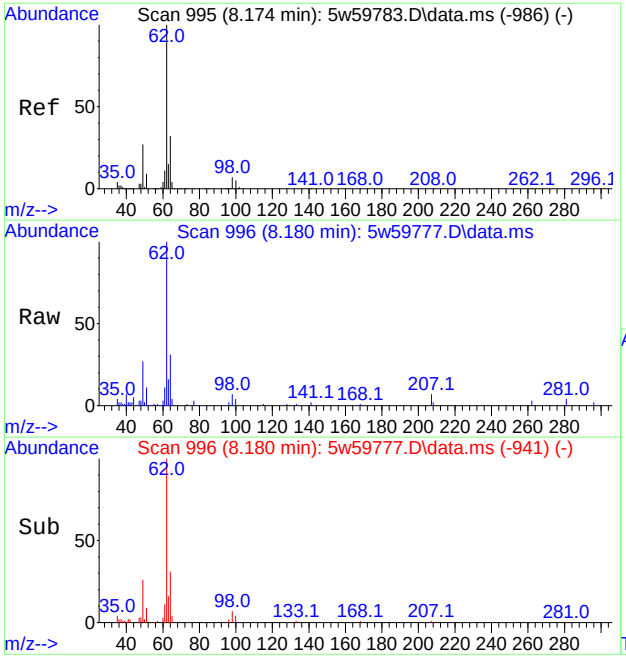


#49
CARBON TETRACHLORIDE
Concen: 0.33 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 65062

Ion	Ratio	Lower	Upper
117	100		
119	98.1	66.9	126.9
121	30.5	1.3	61.3

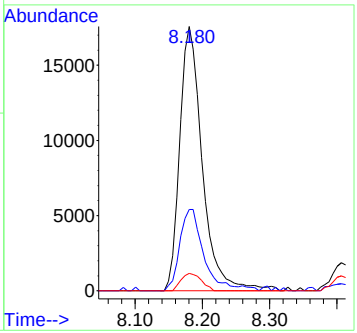


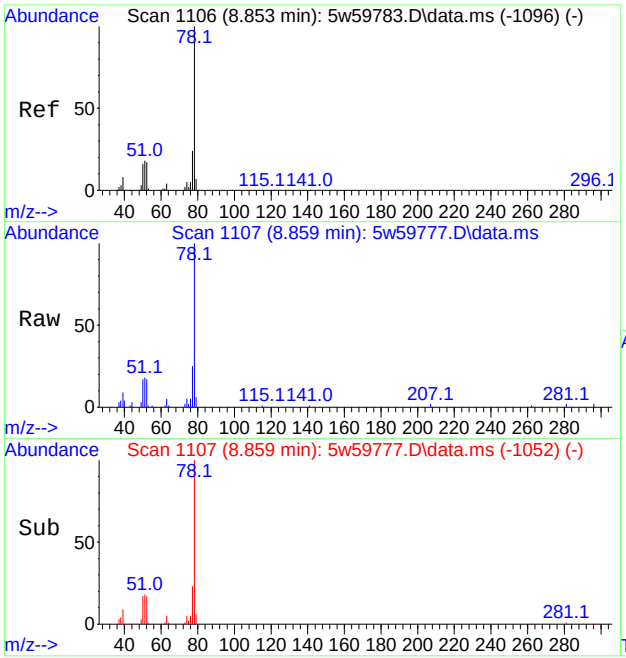


#50
1,2-DICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 41098

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	5.9	0.0	36.9

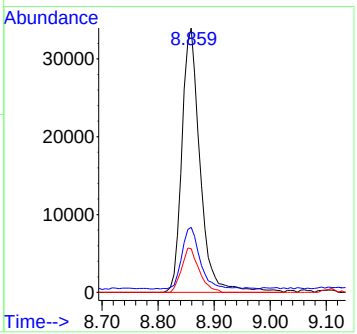


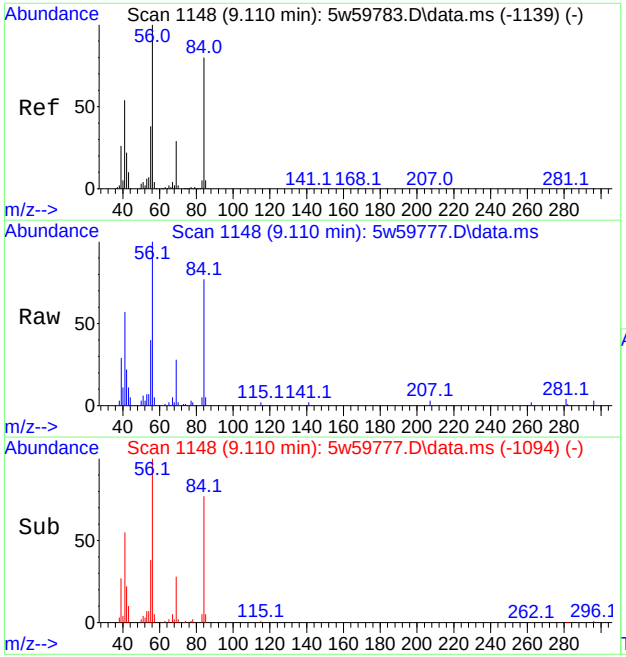


#52
BENZENE
Concen: 0.34 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 78 Resp: 76538

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	16.1	0.0	46.9

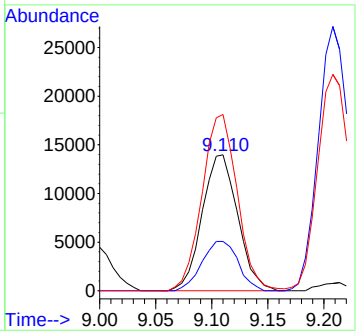


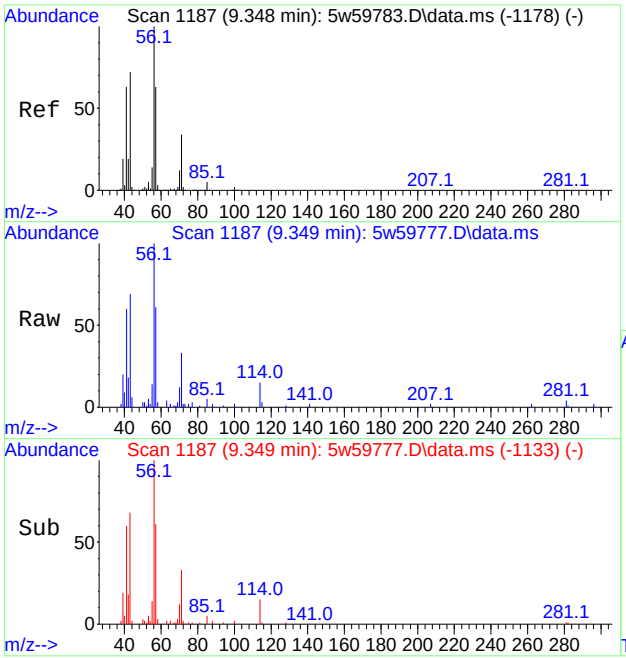


#53
CYCLOHEXANE
Concen: 0.34 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 30877

Ion	Ratio	Lower	Upper
84	100		
69	37.0	6.9	66.9
56	128.6	98.2	158.2

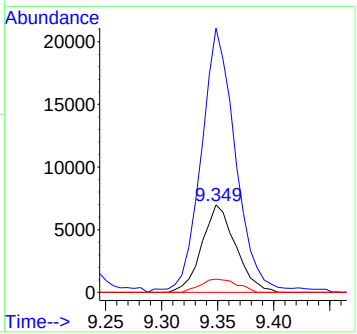


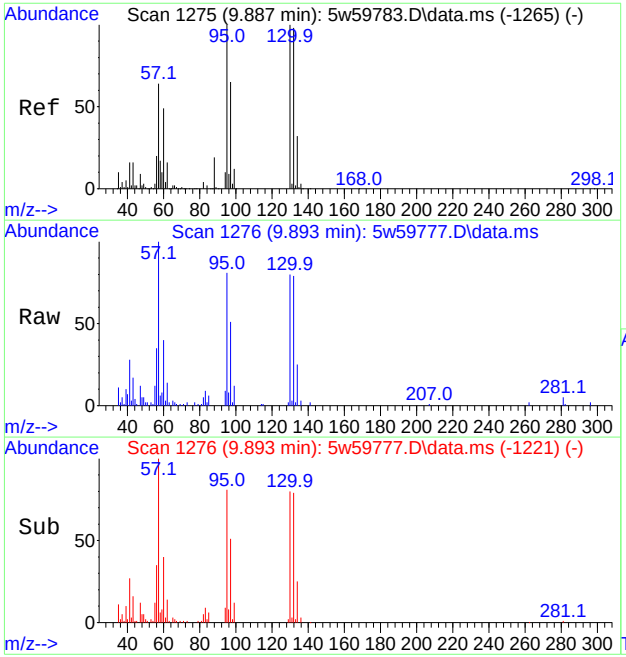


#54
2,3-DIMETHYLPENTANE
Concen: 0.32 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 71 Resp: 14658

Ion	Ratio	Lower	Upper
71	100		
56	309.7	264.6	324.6
85	16.6	0.0	45.3

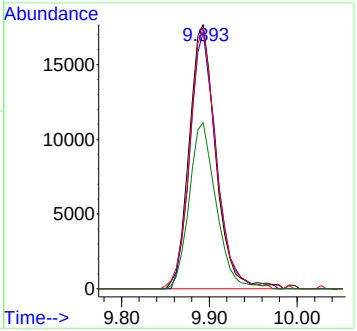


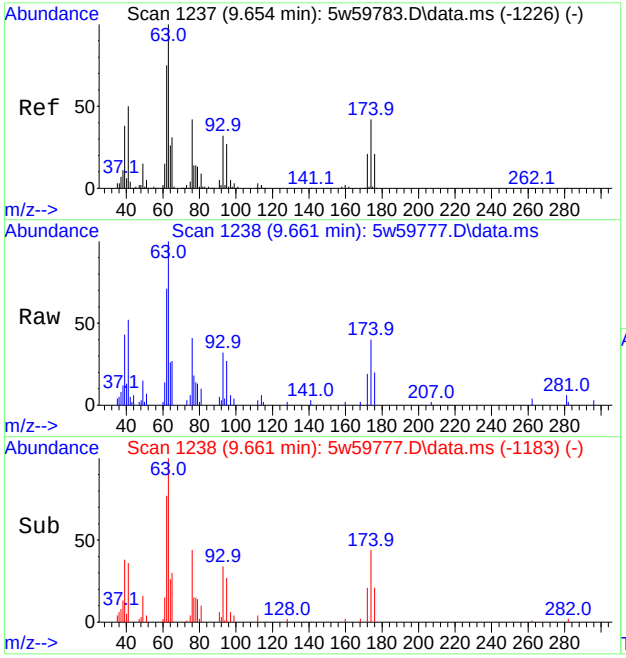


#55
TRICHLOROETHYLENE
Concen: 0.32 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 95 Resp: 37369

Ion	Ratio	Lower	Upper
95	100		
132	96.2	69.0	129.0
130	98.7	70.6	130.6
97	63.6	34.6	94.6

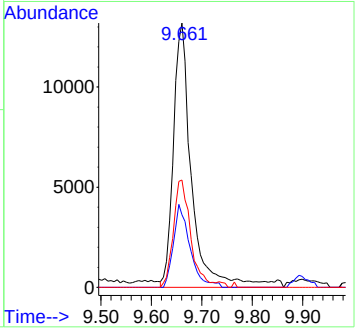


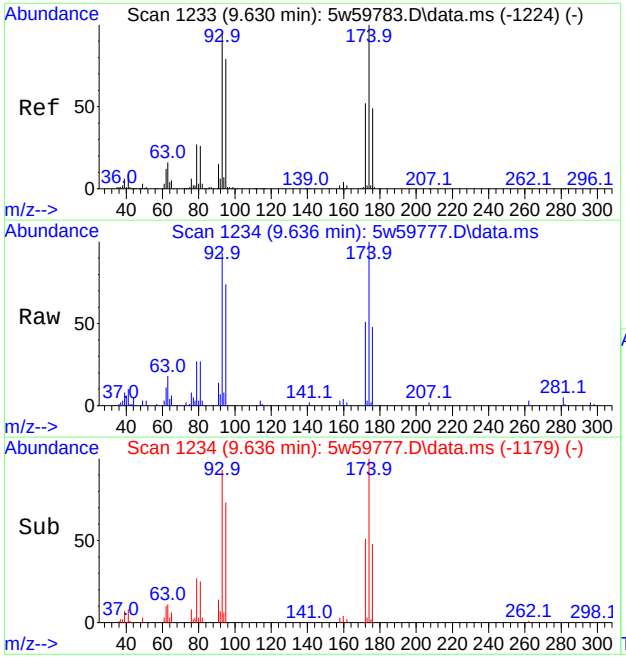


#56
1,2-DICHLOROPROPANE
Concen: 0.35 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 33377

Ion	Ratio	Lower	Upper
63	100		
65	28.2	0.5	60.5
76	39.1	11.5	71.5

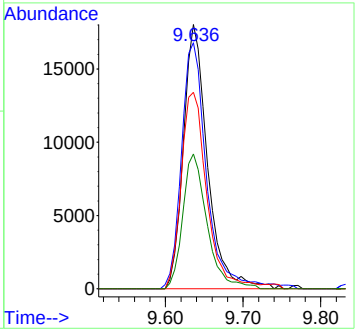


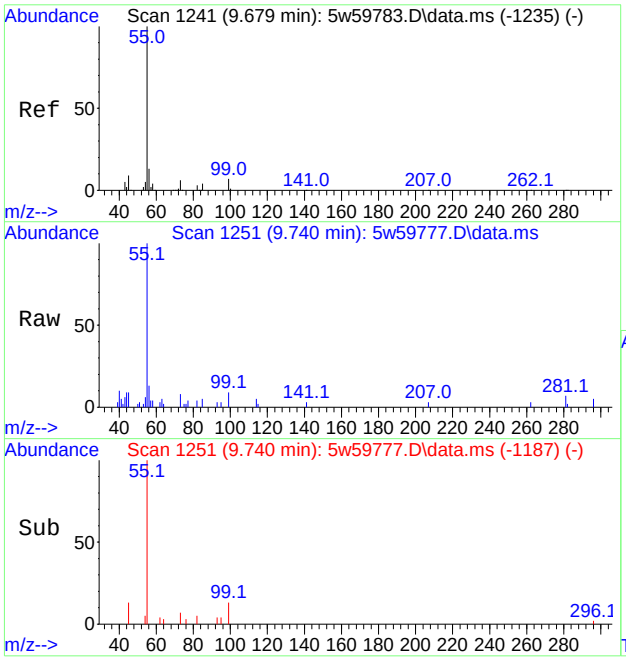


#57
DIBROMOMETHANE
Concen: 0.31 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:174 Resp: 39103

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	80.0	54.5	101.1
172	51.2	36.3	67.5

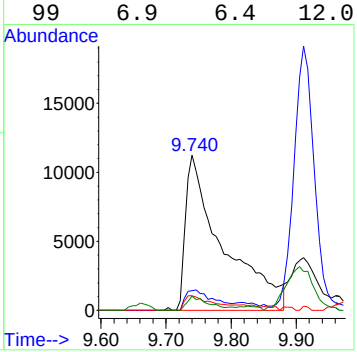


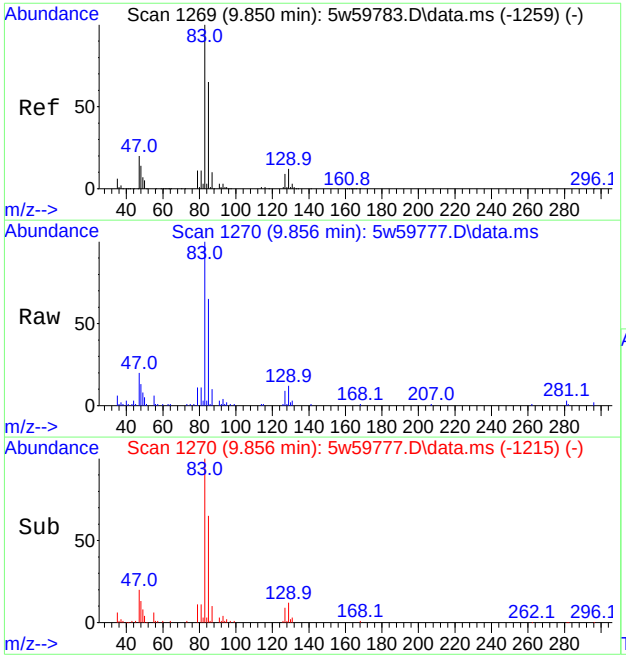


#58
ETHYL ACRYLATE
Concen: 0.25 PPBV
RT: 9.740 min Scan# 1251
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 44771

Ion	Ratio	Lower	Upper
55	100		
56	13.8	8.6	16.0
45	9.9	6.6	12.2
99	6.9	6.4	12.0

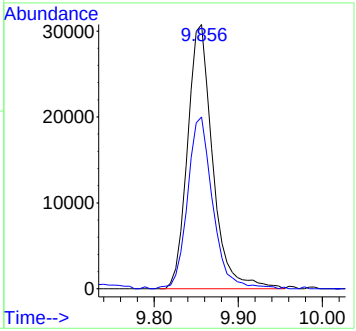


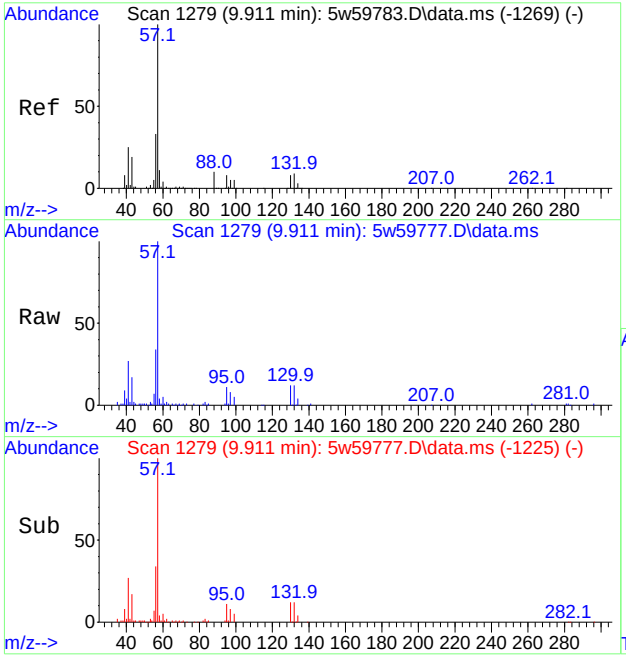


#59
BROMODICHLOROMETHANE
Concen: 0.31 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 64038

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

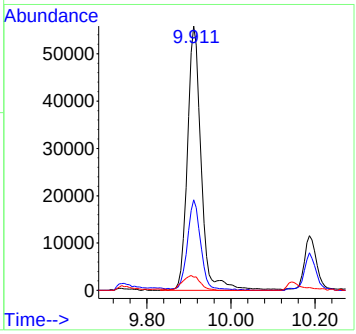


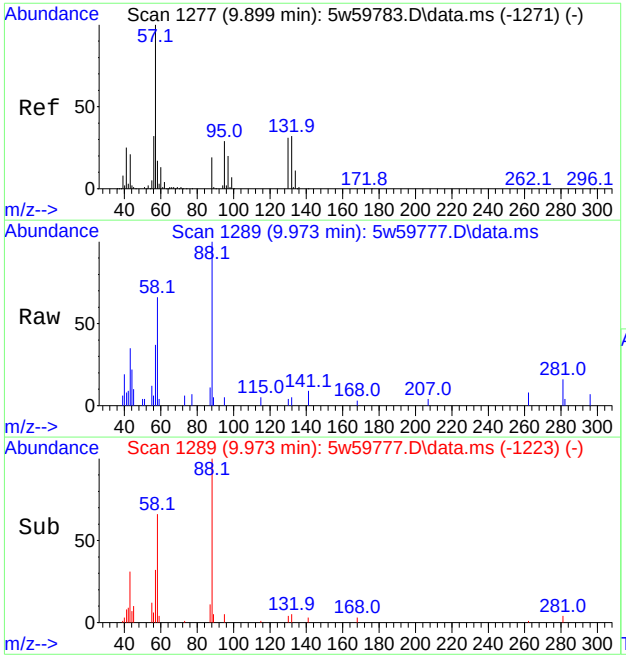


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.35 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 127085

Ion	Ratio	Lower	Upper
57	100		
56	33.3	2.5	62.5
99	7.3	0.0	37.3

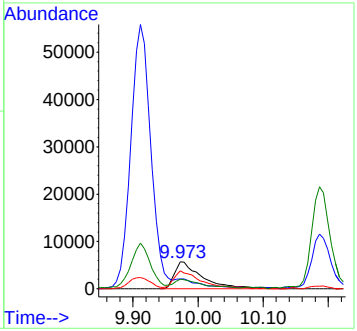


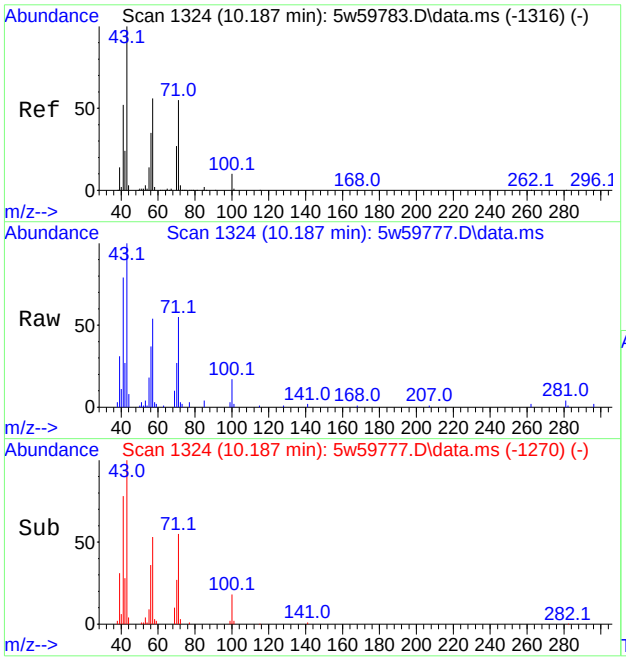


#61
1,4-DIOXANE
Concen: 0.32 PPBV
RT: 9.973 min Scan# 1289
Delta R.T. 0.074 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 88 Resp: 17043

Ion	Ratio	Lower	Upper
88	100		
57	36.5	494.2	554.2#
58	66.1	58.9	118.9
43	35.3	78.3	138.3#

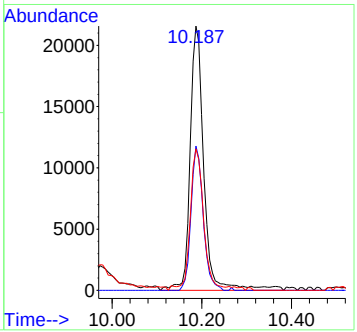


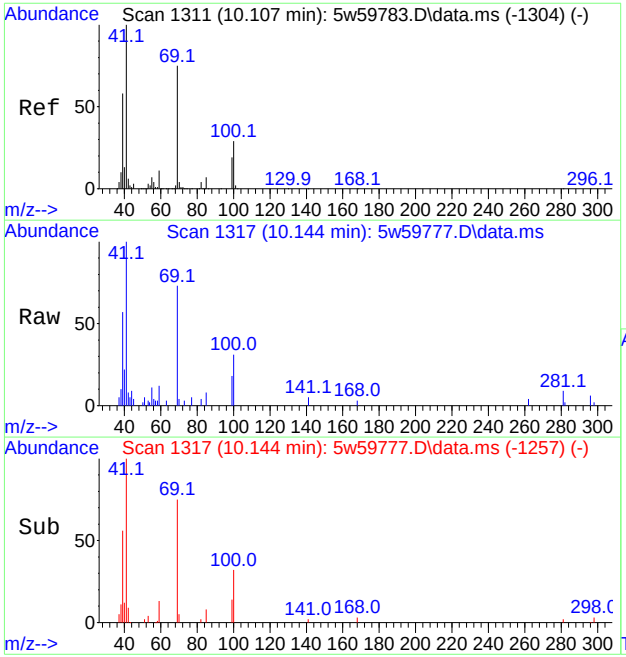


#62
HEPTANE
Concen: 0.38 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 45917

Ion	Ratio	Lower	Upper
43	100		
71	48.0	24.5	84.5
57	53.4	26.2	86.2

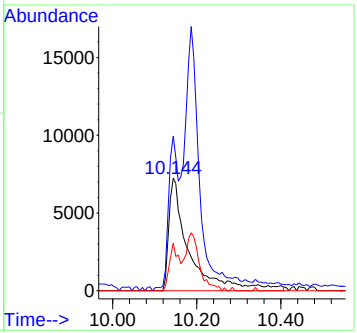


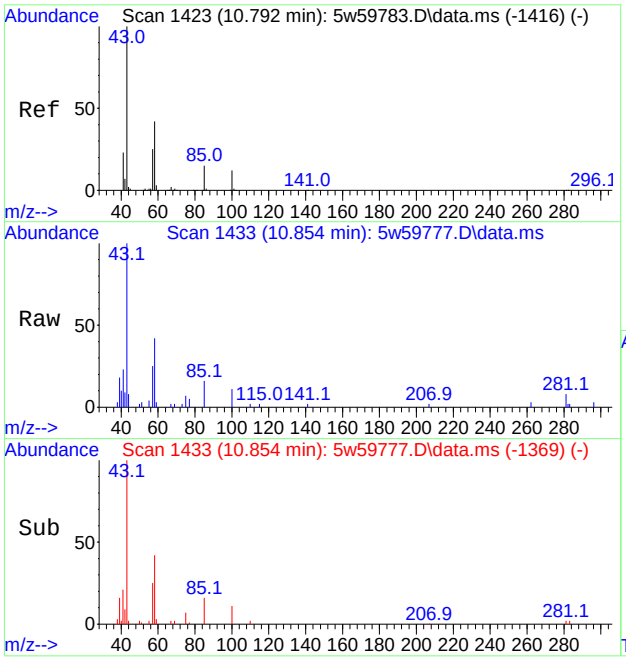


#63
METHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 10.144 min Scan# 1317
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 24229

Ion	Ratio	Lower	Upper
69	100		
41	73.7	95.3	155.3#
100	22.5	6.3	66.3

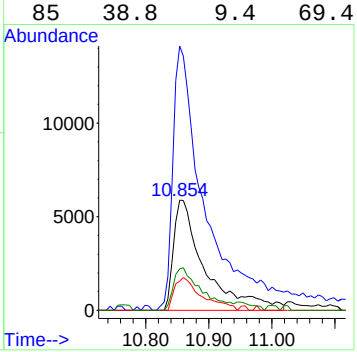


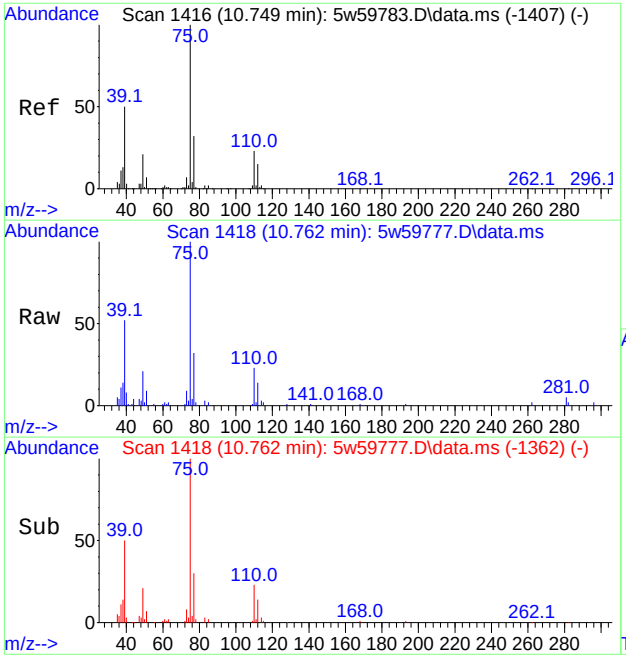


#64
METHYL ISOBUTYL KETONE
Concen: 0.27 PPBV
RT: 10.854 min Scan# 1433
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 20298

Ion	Ratio	Lower	Upper
58	100		
43	262.8	209.2	269.2
100	26.0	0.0	58.8
85	38.8	9.4	69.4

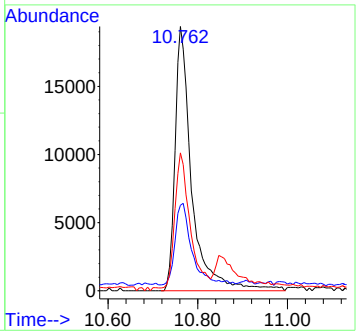


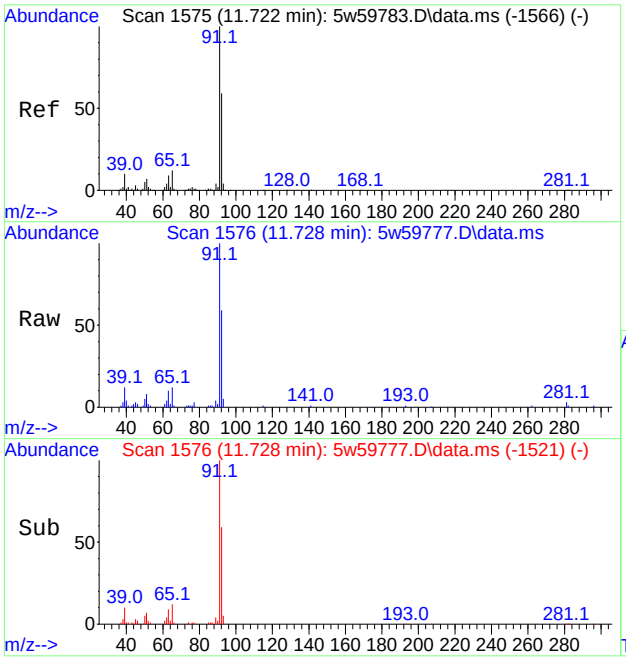


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.32 PPBV
RT: 10.762 min Scan# 1418
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 50330

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	47.9	34.3	94.3

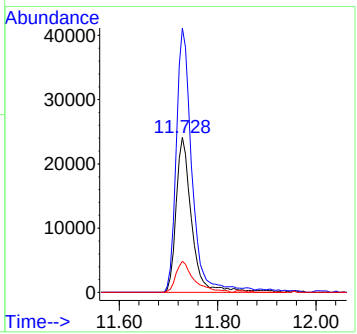


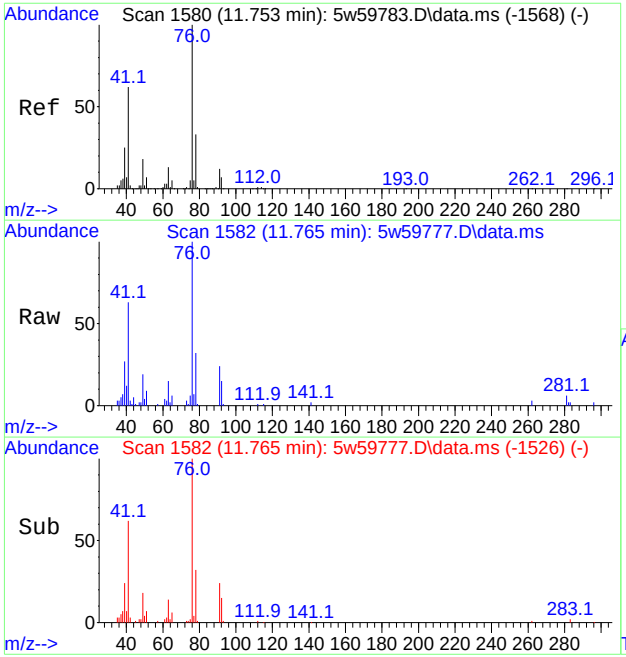


#66
TOLUENE
Concen: 0.31 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 92 Resp: 53175

Ion	Ratio	Lower	Upper
92	100		
91	174.5	140.1	200.1
65	23.0	0.0	53.1

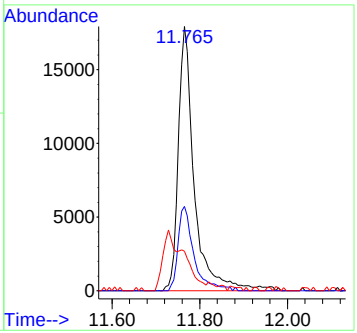


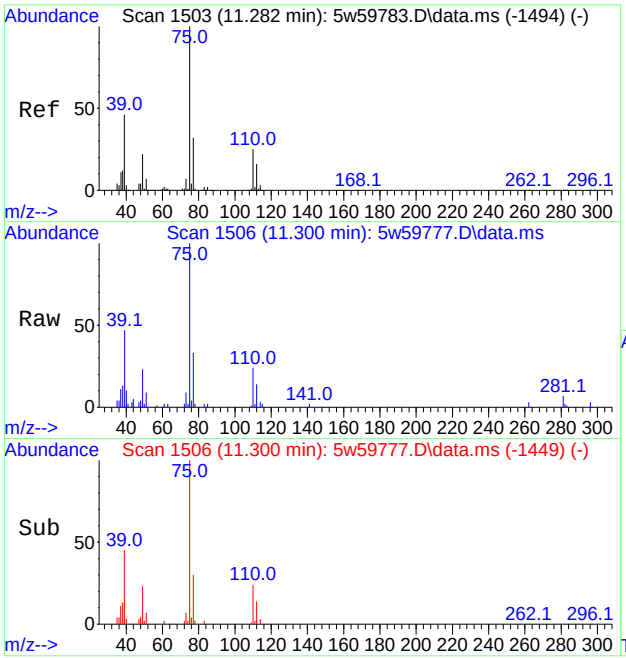


#67
1,3-DICHLOROPROPANE
Concen: 0.32 PPBV
RT: 11.765 min Scan# 1582
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 45275

Ion	Ratio	Lower	Upper
76	100		
78	31.9	23.2	43.0
63	0.0	7.1	13.1#

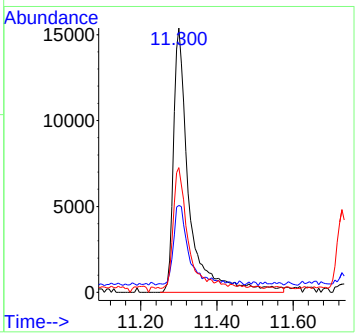


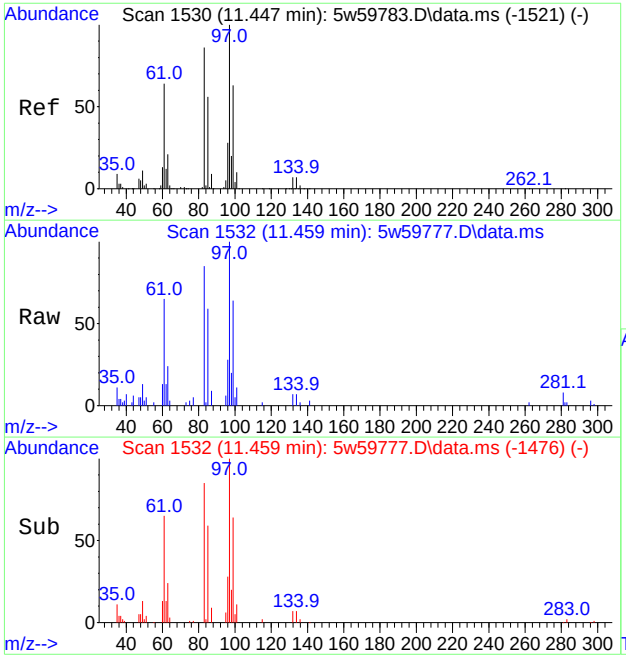


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.30 PPBV
RT: 11.300 min Scan# 1506
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 44098

Ion	Ratio	Lower	Upper
75	100		
77	28.5	1.6	61.6
39	49.3	16.1	76.1

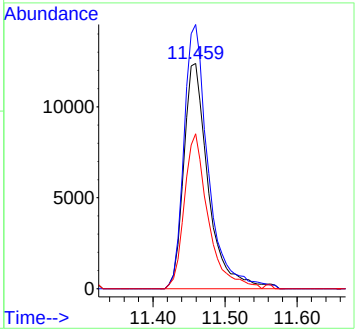


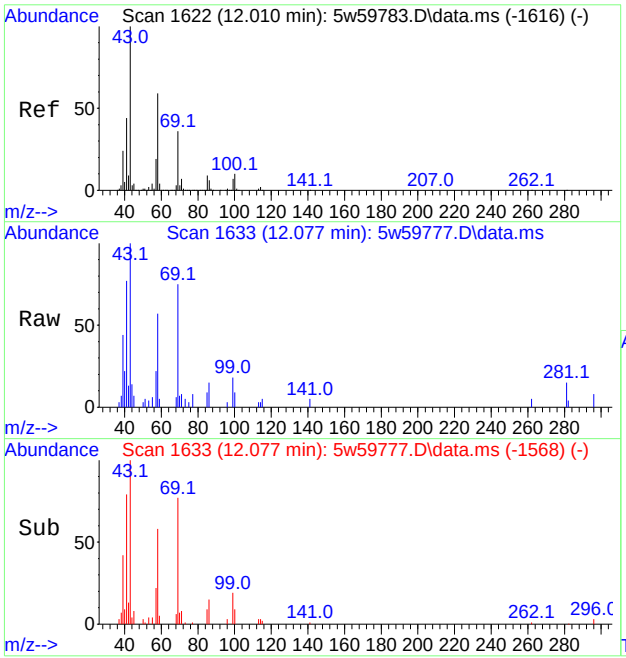


#69
1,1,2-TRICHLOROETHANE
Concen: 0.31 PPBV
RT: 11.459 min Scan# 1532
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 29376

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	66.8	35.3	95.3

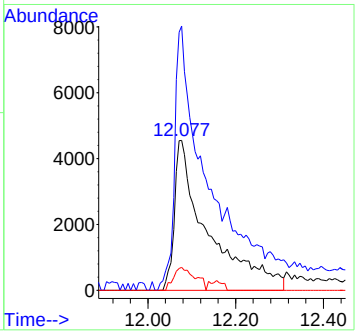


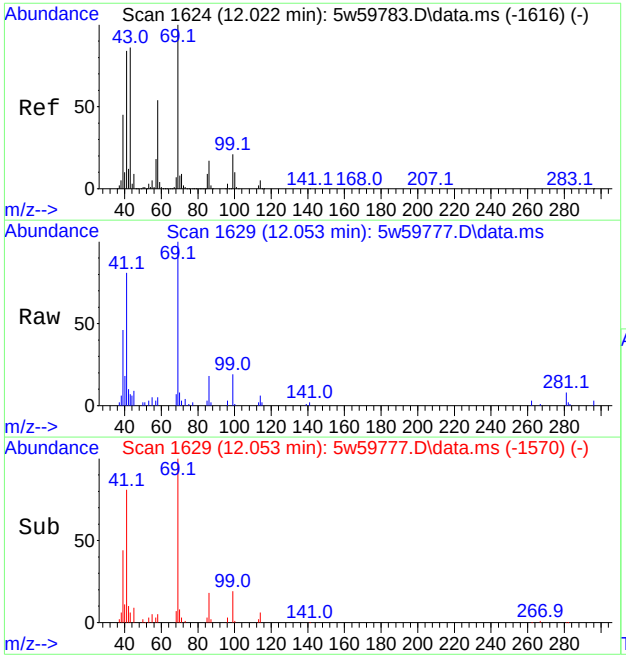


#71
2-HEXANONE
Concen: 0.25 PPBV
RT: 12.077 min Scan# 1633
Delta R.T. 0.067 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 24053

Ion	Ratio	Lower	Upper
58	100		
43	181.6	137.2	197.2
100	9.8	0.0	46.9

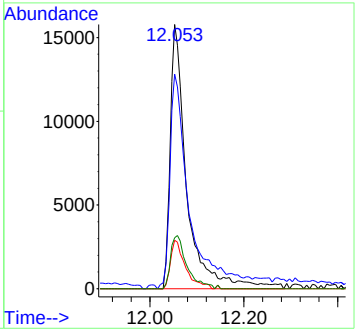


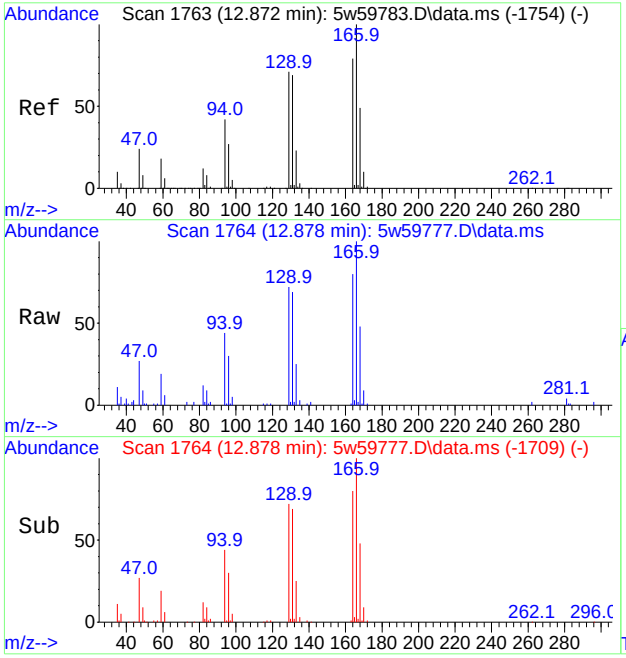


#72
ETHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 12.053 min Scan# 1629
Delta R.T. 0.031 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 39133

Ion	Ratio	Lower	Upper
69	100		
41	104.7	64.0	119.0
86	16.5	12.0	22.4
99	19.9	15.0	27.8

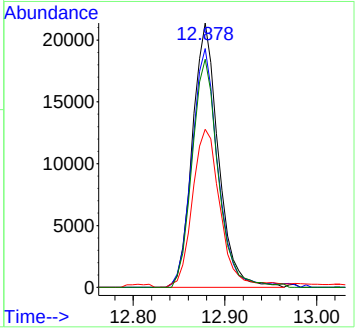


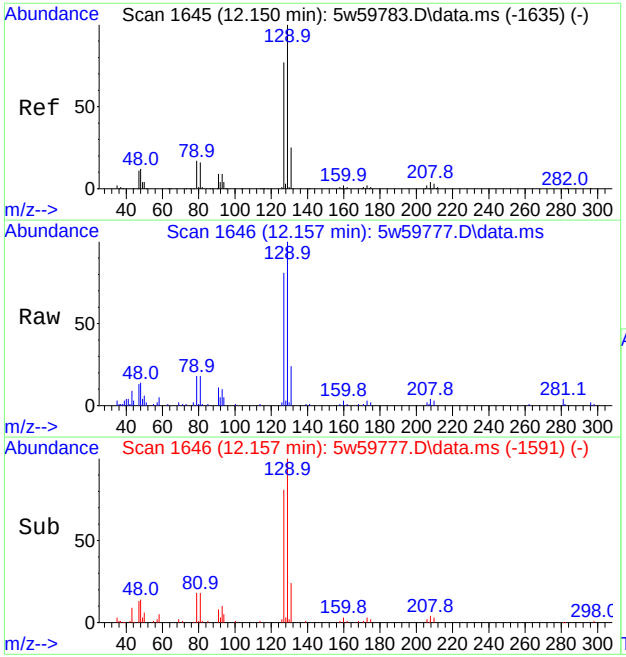


#73
TETRACHLOROETHYLENE
Concen: 0.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:164 Resp: 42039

Ion	Ratio	Lower	Upper
164	100		
129	92.1	59.7	119.7
168	67.5	32.2	92.2
131	87.3	57.8	117.8

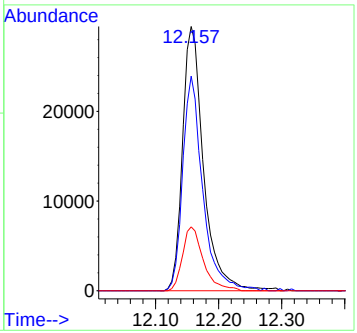


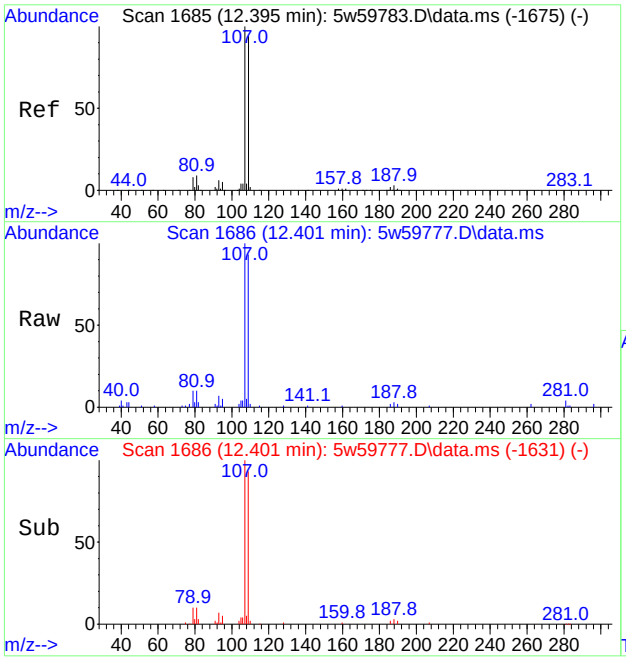


#74
DIBROMOCHLOROMETHANE
Concen: 0.33 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:129 Resp: 68347

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.0	0.0	54.5

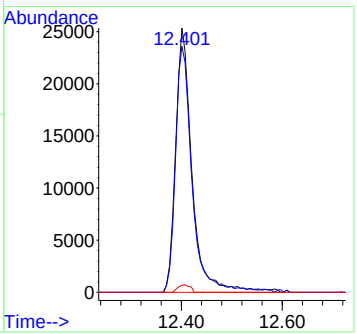


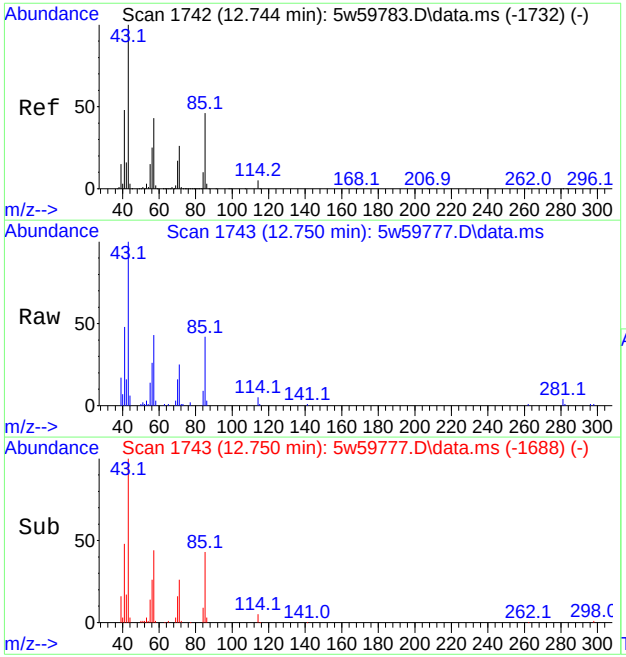


#75
1,2-DIBROMOETHANE
Concen: 0.36 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:107 Resp: 57560

Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.8	124.8
188	2.2	0.0	32.8

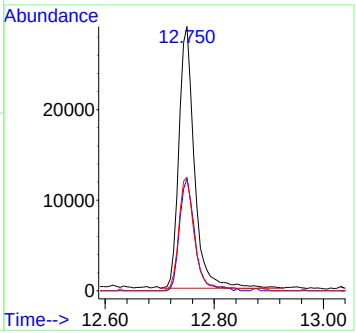


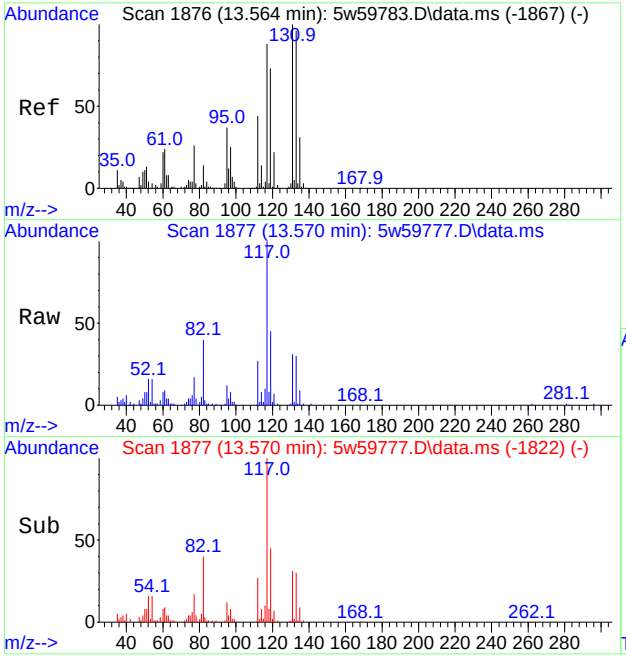


#76
OCTANE
Concen: 0.37 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 57196

Ion	Ratio	Lower	Upper
43	100		
85	42.4	14.6	74.6
57	45.8	13.7	73.7

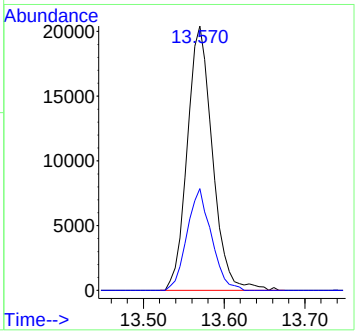


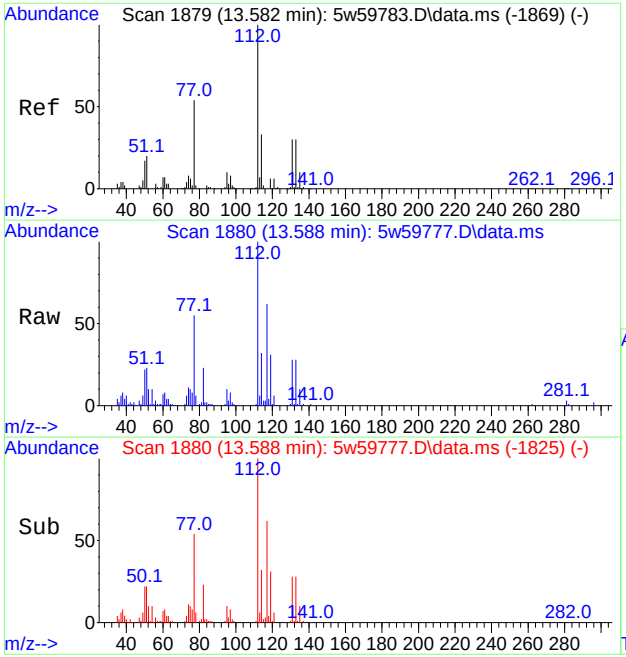


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.34 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:131 Resp: 44229

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

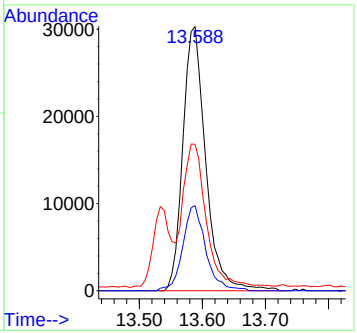


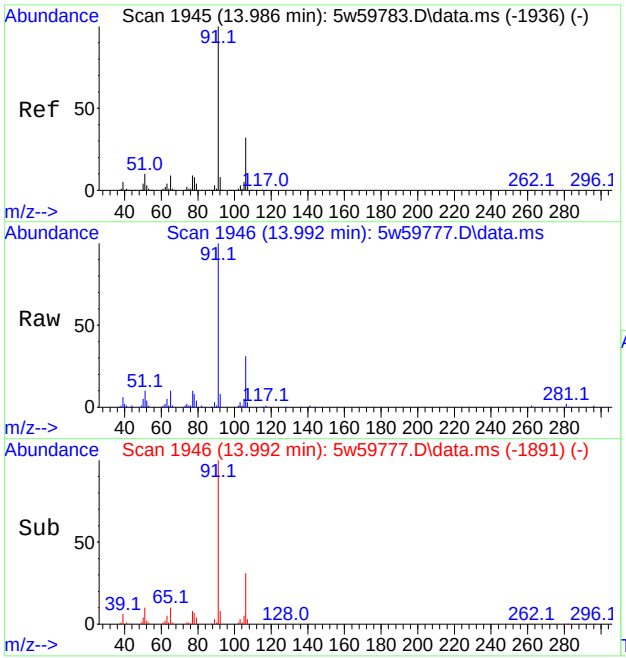


#78
CHLOROBENZENE
Concen: 0.36 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:112 Resp: 76482

Ion	Ratio	Lower	Upper
112	100		
114	32.3	2.6	62.6
77	54.6	25.4	85.4

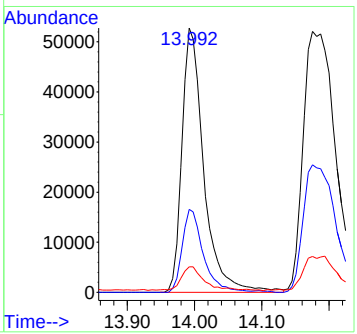


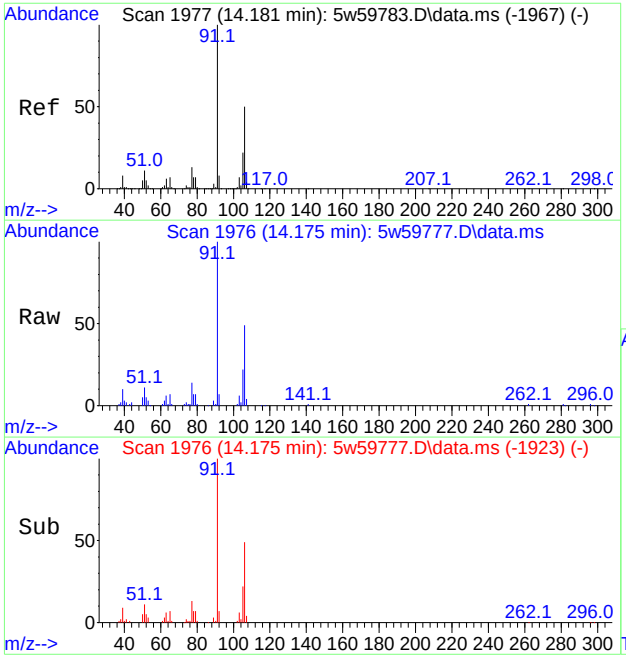


#79
ETHYLBENZENE
Concen: 0.37 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 119442

Ion	Ratio	Lower	Upper
91	100		
106	30.6	1.3	61.3
77	9.8	0.0	38.6

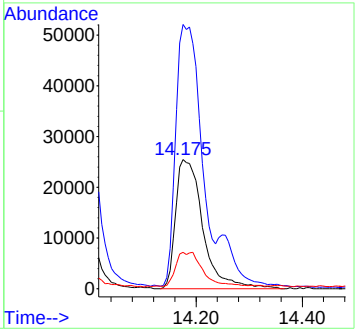


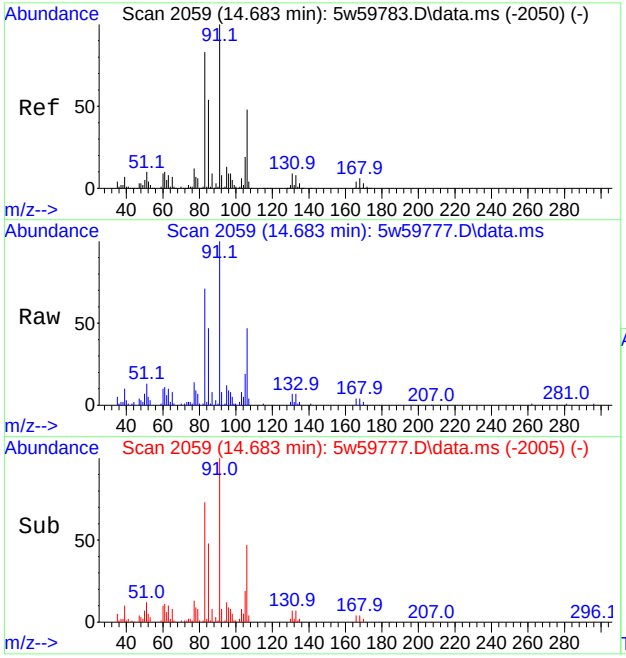


#80
m,p-XYLENE
Concen: 0.70 PPBV
RT: 14.175 min Scan# 1976
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 91065

Ion	Ratio	Lower	Upper
106	100		
91	204.5	171.0	231.0
77	28.2	0.0	56.7

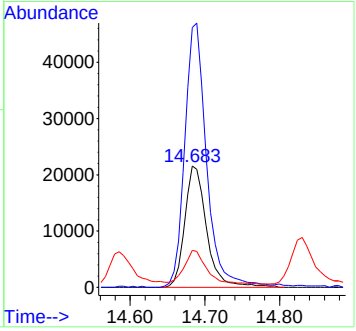


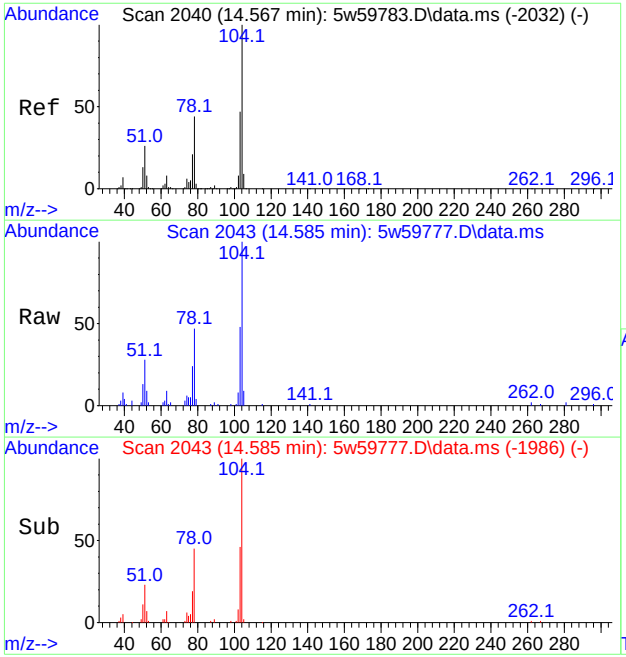


#81
o-XYLENE
Concen: 0.35 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 43793

Ion	Ratio	Lower	Upper
106	100		
91	220.8	181.6	241.6
77	30.0	0.0	56.6

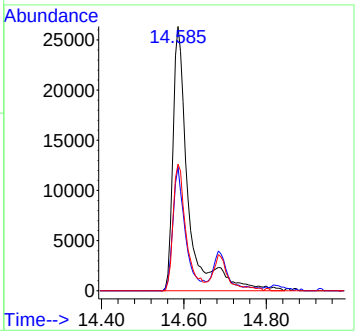


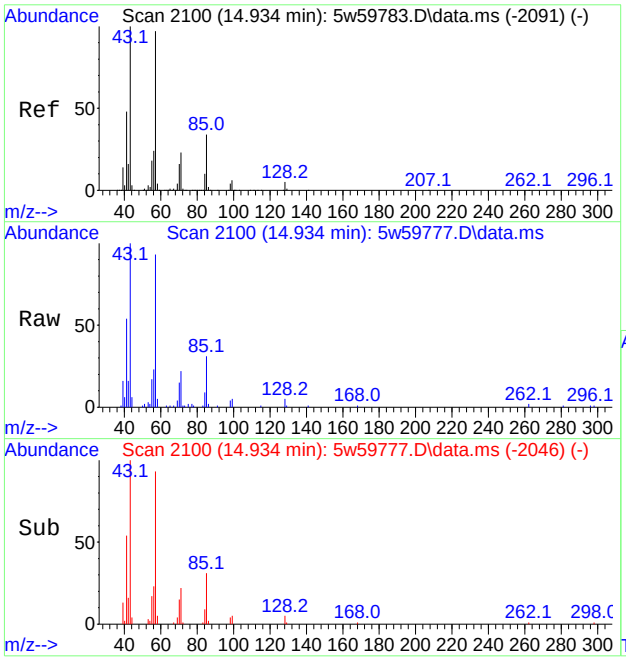


#82
STYRENE
Concen: 0.36 PPBV
RT: 14.585 min Scan# 2043
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:104 Resp: 68779

Ion	Ratio	Lower	Upper
104	100		
78	38.1	13.3	73.3
103	40.5	17.2	77.2

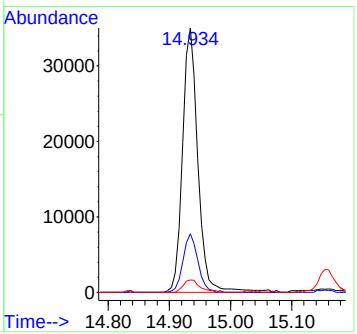


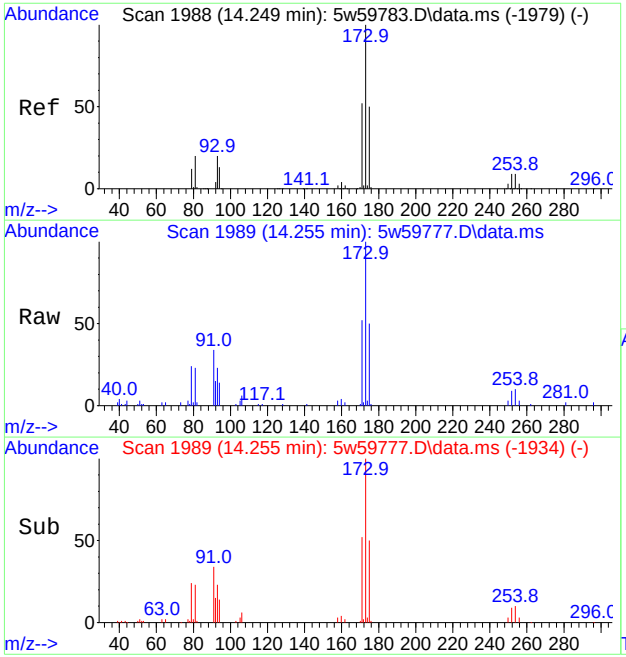


#83
NONANE
Concen: 0.39 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 61419

Ion	Ratio	Lower	Upper
43	100		
71	21.3	0.0	52.7
128	5.1	0.0	34.7

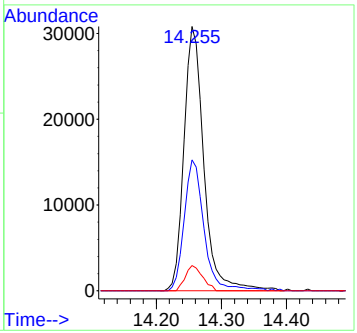


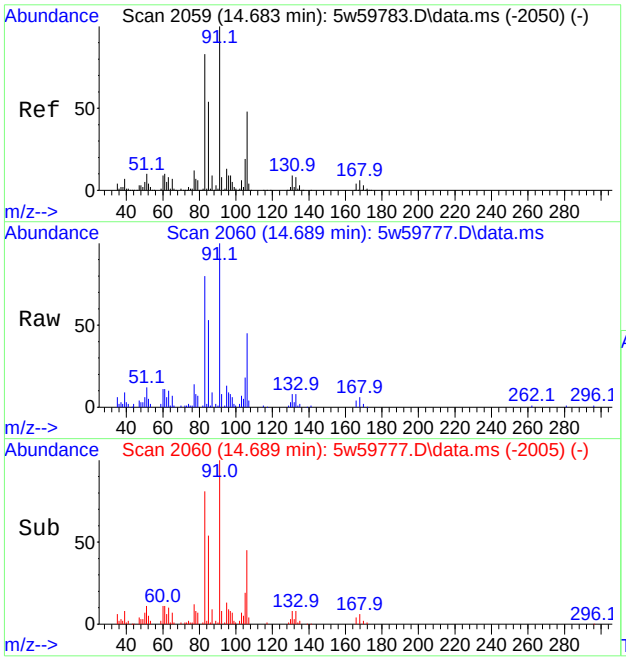


#84
BROMOFORM
Concen: 0.31 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:173 Resp: 65517

Ion	Ratio	Lower	Upper
173	100		
175	49.3	19.6	79.6
254	8.2	0.0	39.0

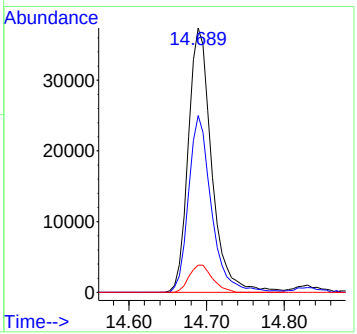


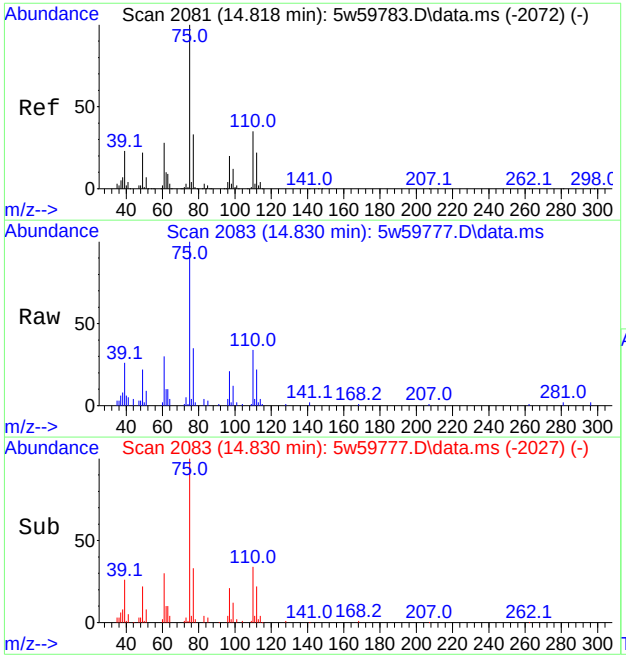


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.37 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 78542

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.2	95.2
131	10.3	0.0	40.3

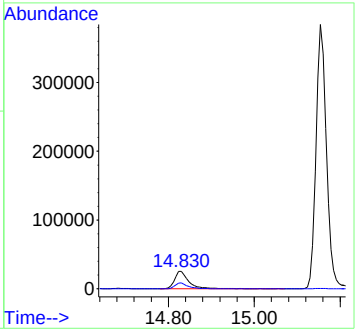


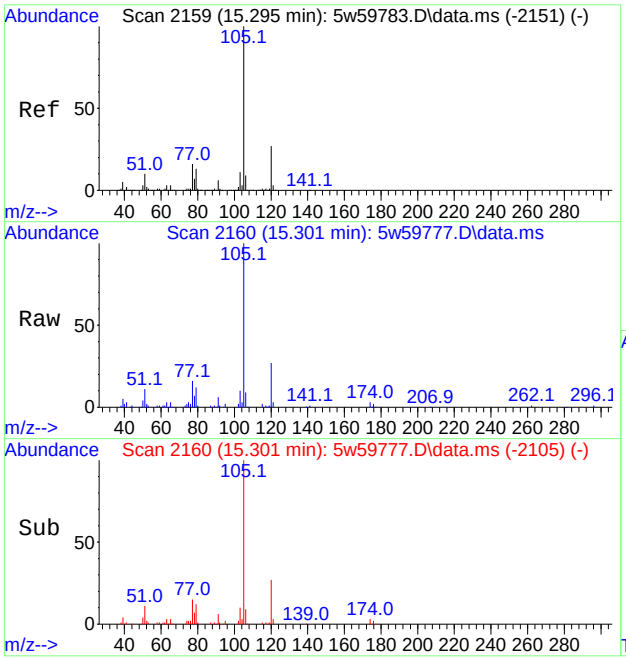


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.37 PPBV
RT: 14.830 min Scan# 2083
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 59513

Ion	Ratio	Lower	Upper
75	100		
110	30.7	4.4	64.4

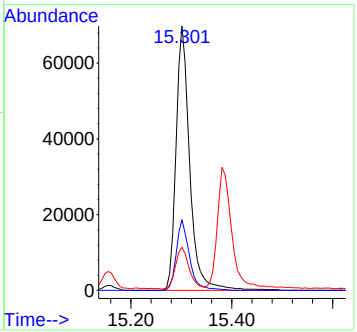


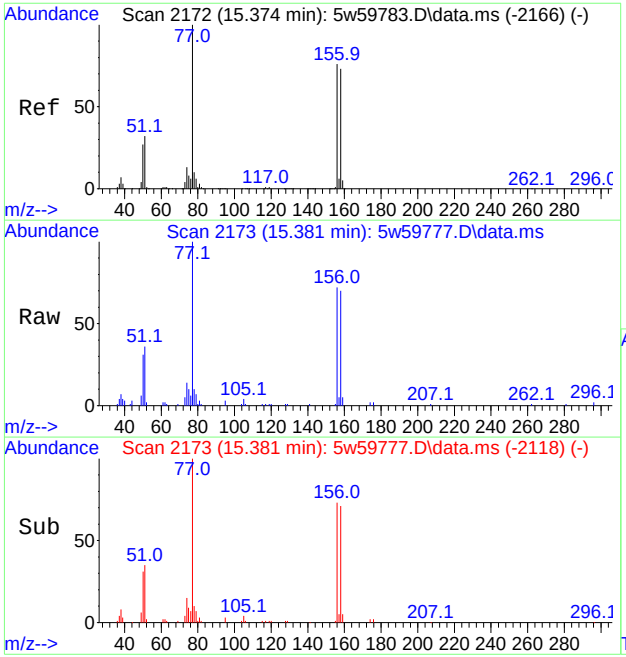


#88
ISOPROPYLBENZENE
Concen: 0.35 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 132085

Ion	Ratio	Lower	Upper
105	100		
120	25.5	0.0	56.0
77	15.4	0.0	45.6

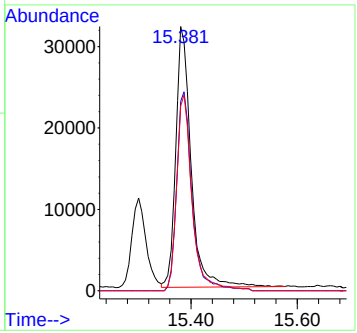


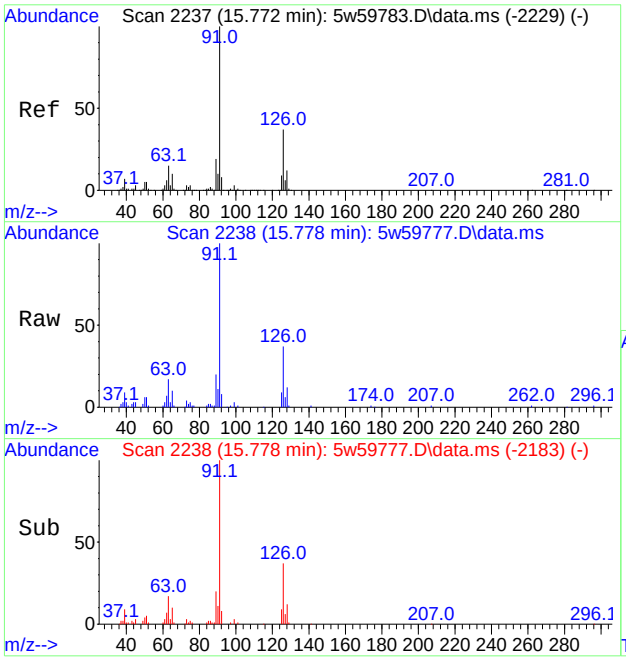


#89
BROMOBENZENE
Concen: 0.34 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 77 Resp: 64086

Ion	Ratio	Lower	Upper
77	100		
156	76.9	54.9	101.9
158	75.5	53.5	99.3

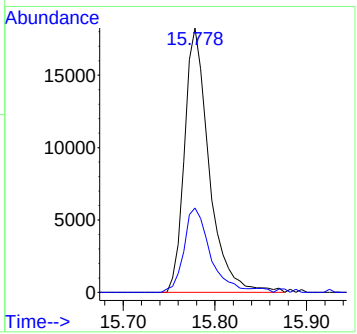


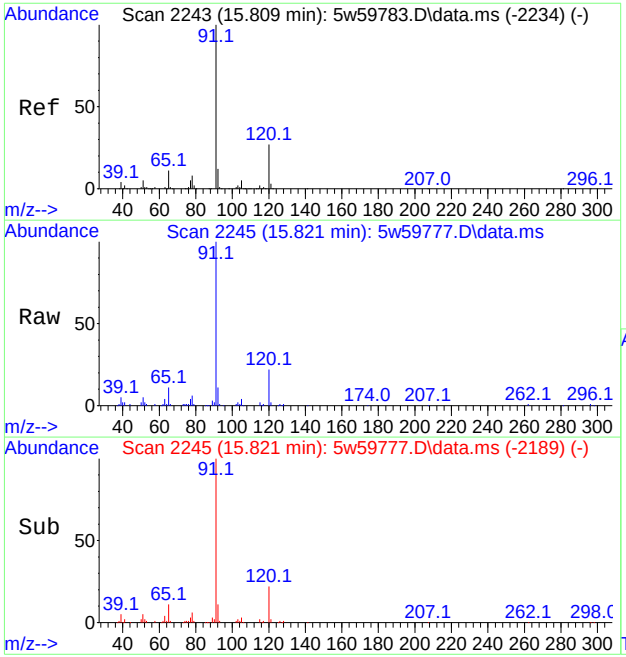


#90
2-CHLOROTOLUENE
Concen: 0.33 PPBV
RT: 15.778 min Scan# 2238
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:126 Resp: 34084

Ion	Ratio	Lower	Upper
126	100		
128	34.8	2.7	62.7

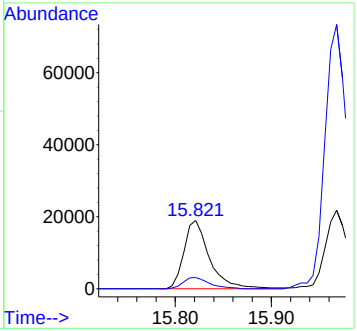


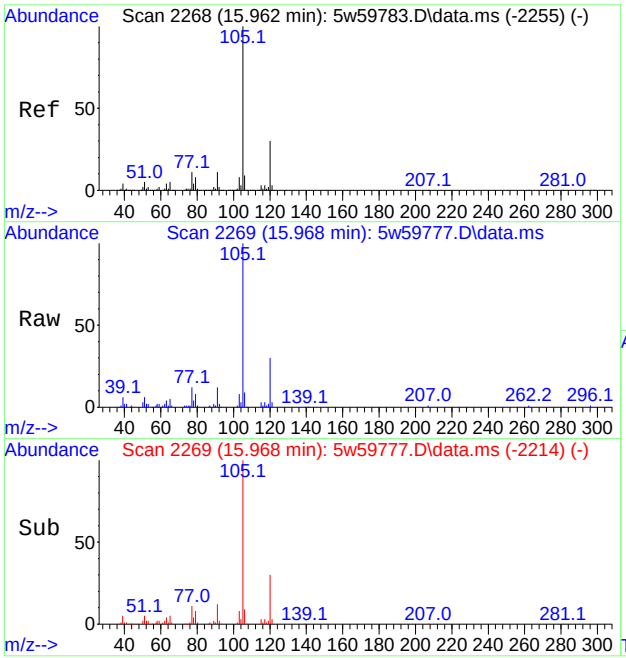


#91
n-PROPYLBENZENE
Concen: 0.34 PPBV
RT: 15.821 min Scan# 2245
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:120 Resp: 35058

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

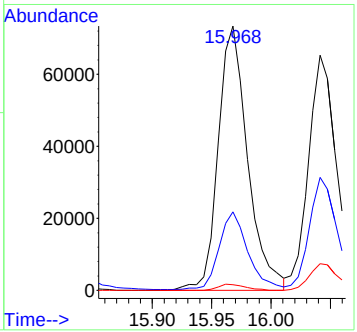


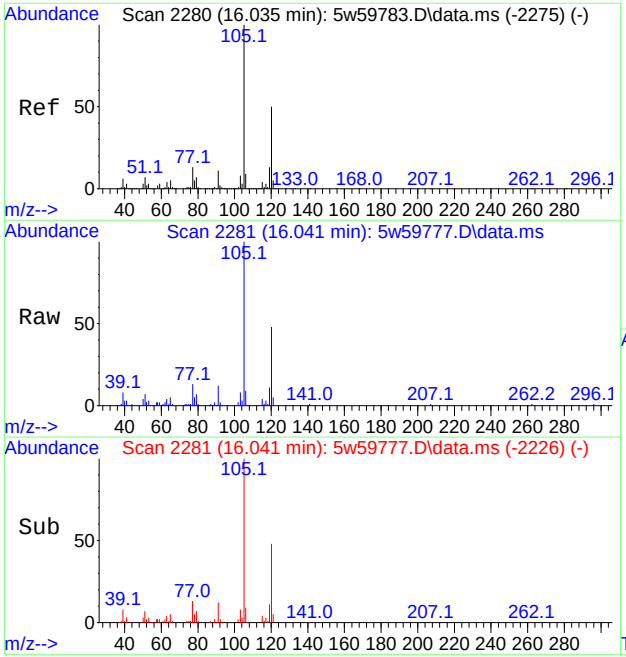


#92
4-ETHYLTOLUENE
Concen: 0.35 PPBV
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 126699

Ion	Ratio	Lower	Upper
105	100		
120	29.4	0.0	59.9
119	2.1	0.0	32.3

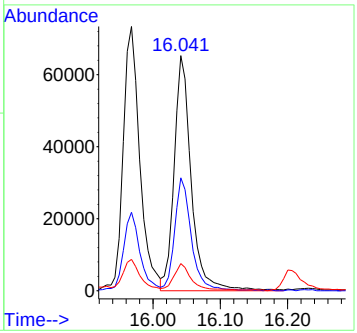


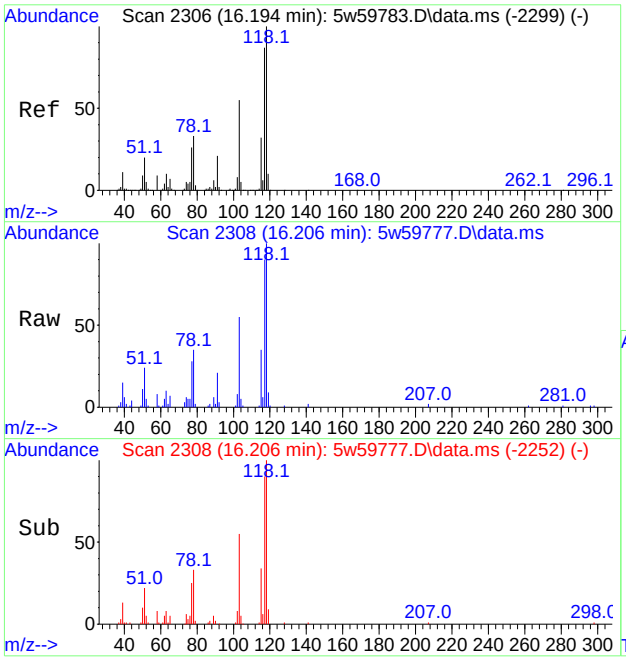


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.38 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 115870

Ion	Ratio	Lower	Upper
105	100		
120	47.0	19.4	79.4
91	12.8	0.0	40.8

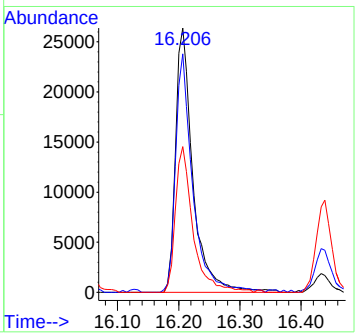


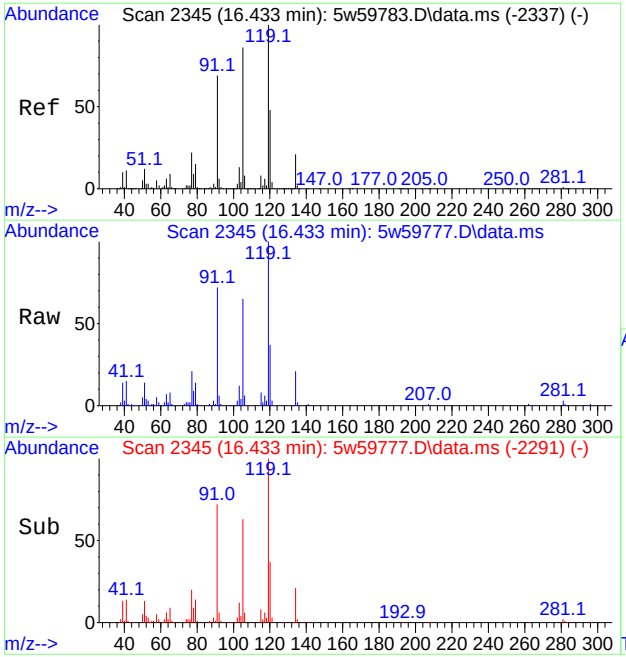


#94
ALPHA-METHYLSTYRENE
Concen: 0.31 PPBV
RT: 16.206 min Scan# 2308
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:118 Resp: 51966

Ion	Ratio	Lower	Upper
118	100		
117	89.3	60.9	113.1
103	55.9	38.6	71.8

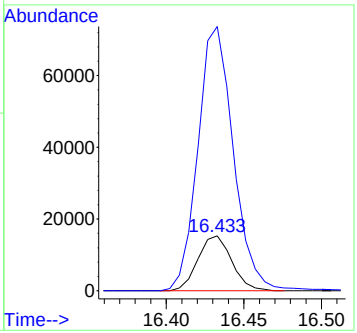


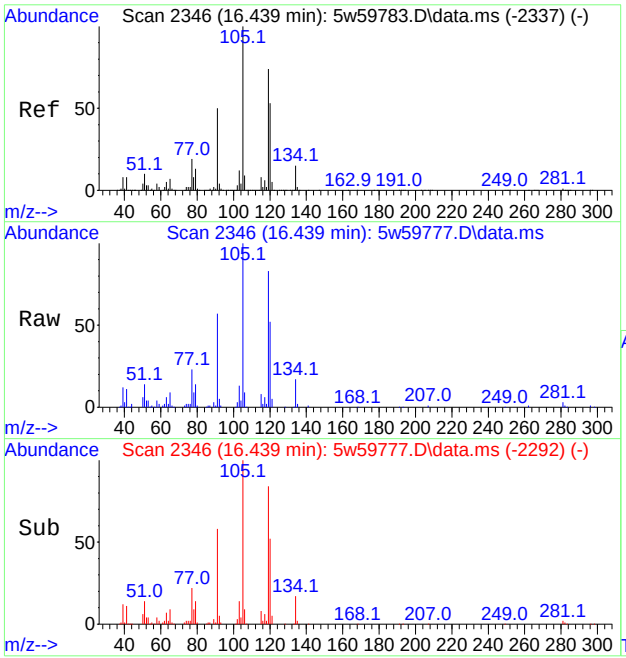


#95
tert-BUTYLBENZENE
Concen: 0.35 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 23128

Ion	Ratio	Lower	Upper
134	100		
119	509.5	459.3	519.3

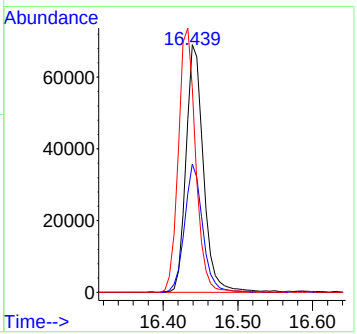


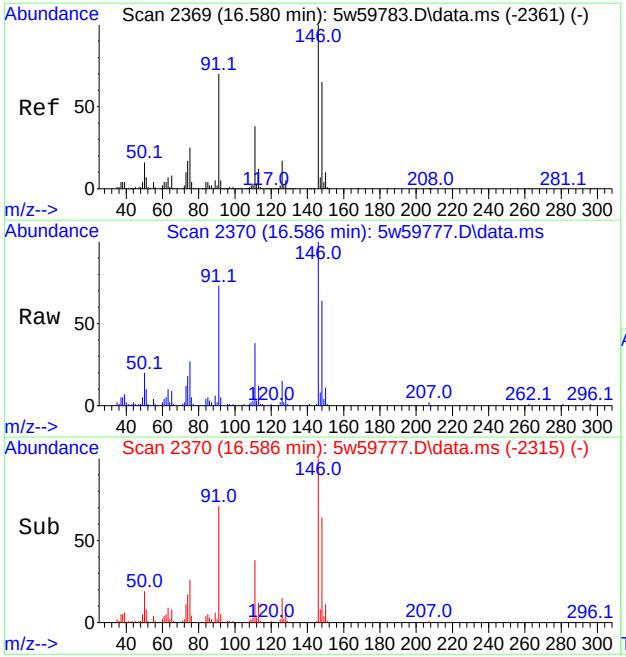


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 112549

Ion	Ratio	Lower	Upper
105	100		
120	53.3	25.7	85.7
119	104.7	75.7	135.7

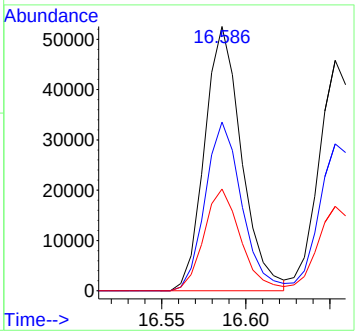


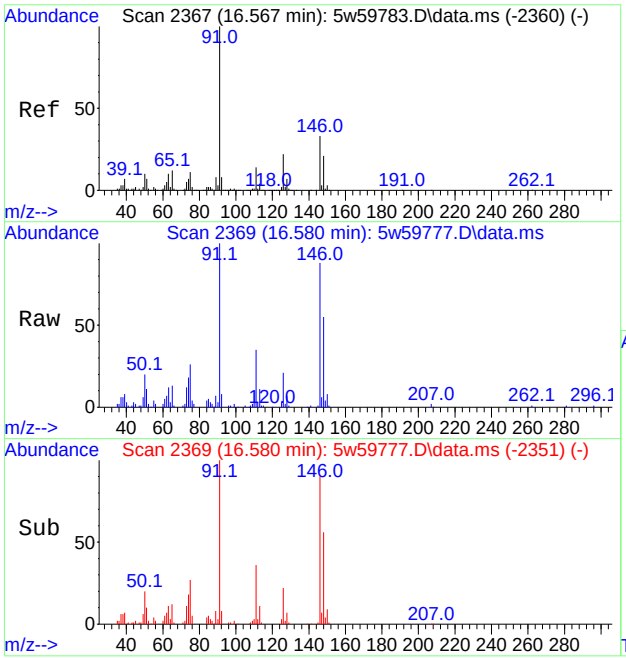


#97
m-DICHLOROBENZENE
Concen: 0.33 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 80323

Ion	Ratio	Lower	Upper
146	100		
148	63.5	34.8	94.8
111	38.5	8.2	68.2

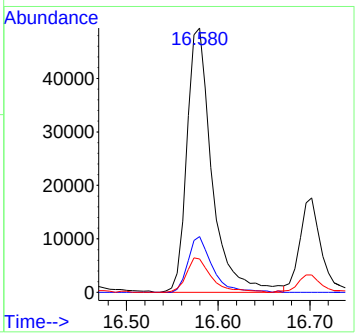


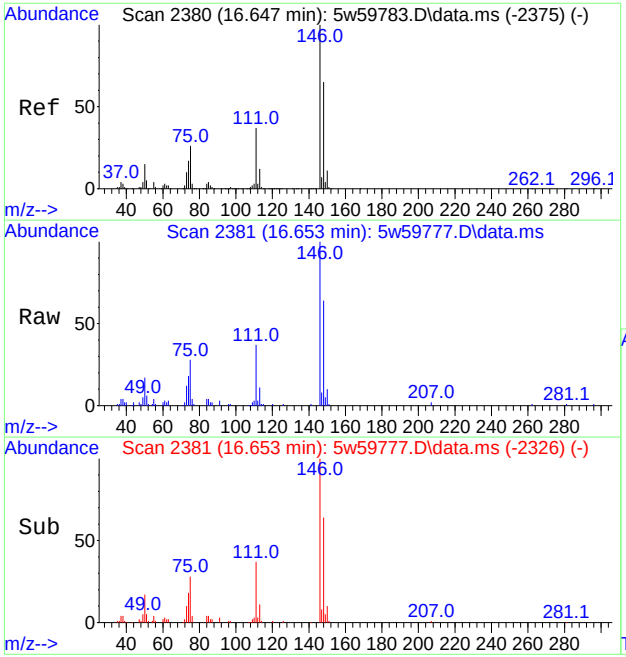


#98
BENZYL CHLORIDE
Concen: 0.31 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 94193

Ion	Ratio	Lower	Upper
91	100		
126	20.4	0.0	51.7
65	13.1	0.0	42.2

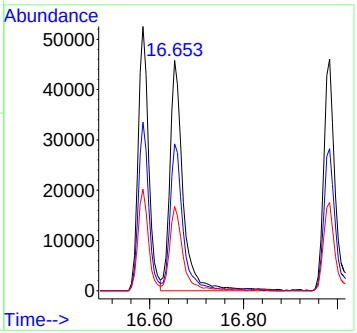


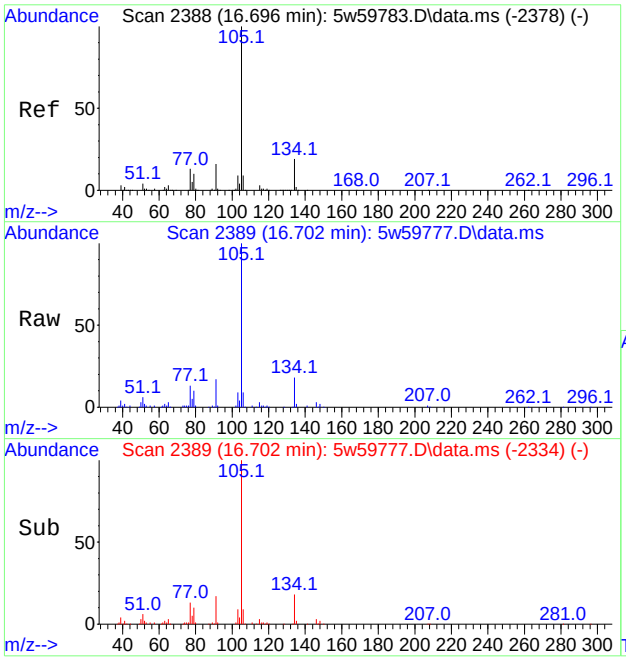


#99
p-DICHLOROBENZENE
Concen: 0.38 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 89982

Ion	Ratio	Lower	Upper
146	100		
148	63.9	34.6	94.6
111	37.0	6.7	66.7

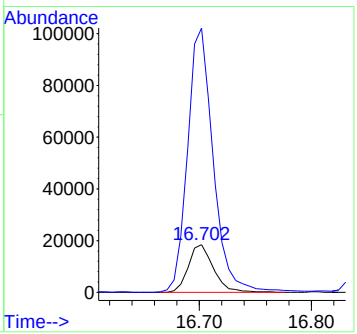


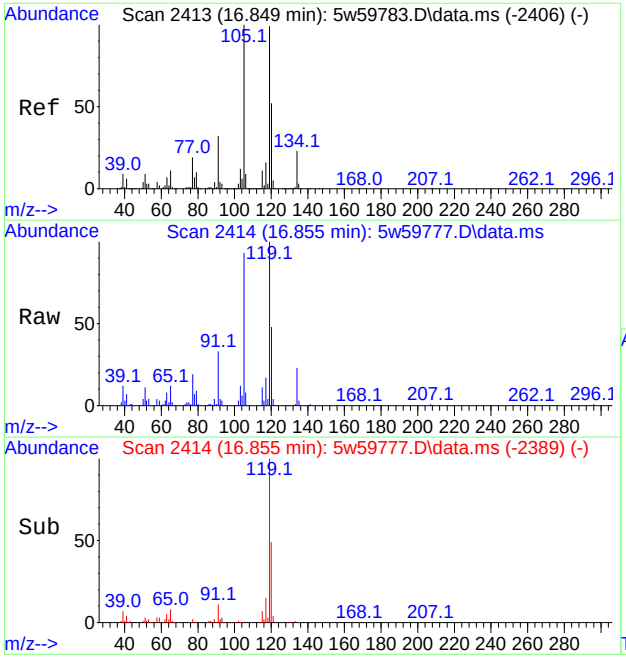


#100
sec-BUTYLBENZENE
Concen: 0.34 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 28746

Ion	Ratio	Lower	Upper
134	100		
105	570.2	502.5	562.5#

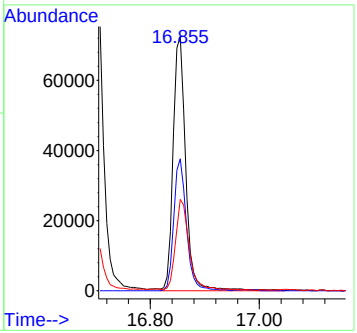


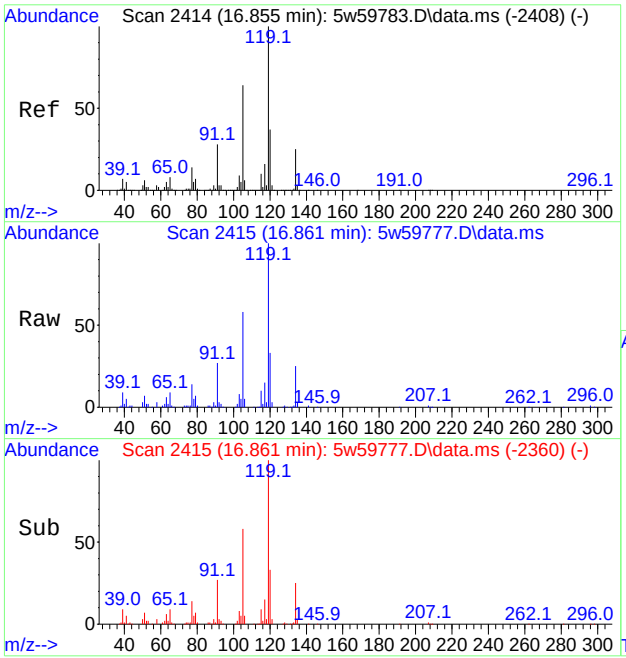


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 117540

Ion	Ratio	Lower	Upper
105	100		
120	51.6	23.5	83.5
91	39.7	7.4	67.4

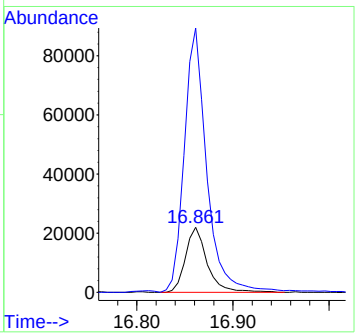


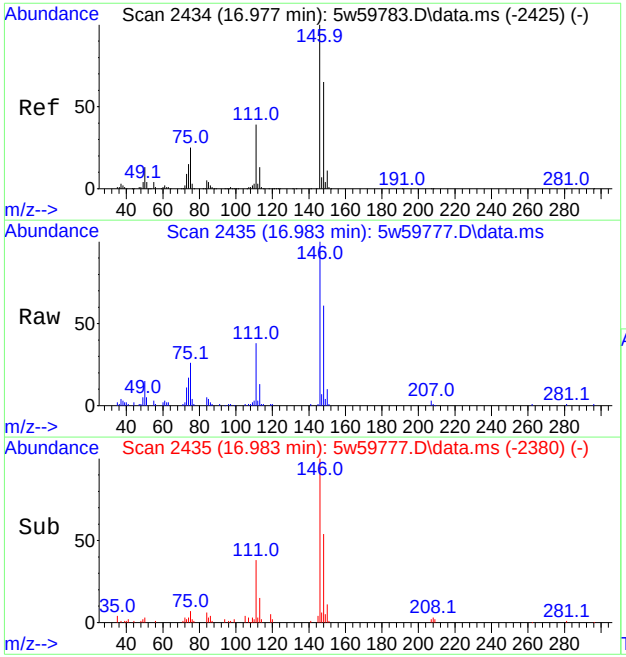


#102
p-ISOPROPYLTOLUENE
Concen: 0.35 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 34620

Ion	Ratio	Lower	Upper
134	100		
119	423.3	377.7	437.7

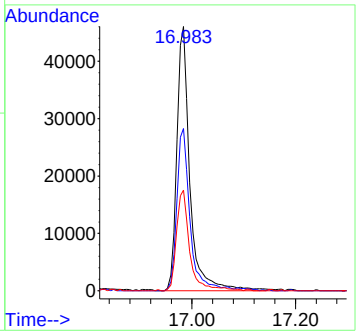


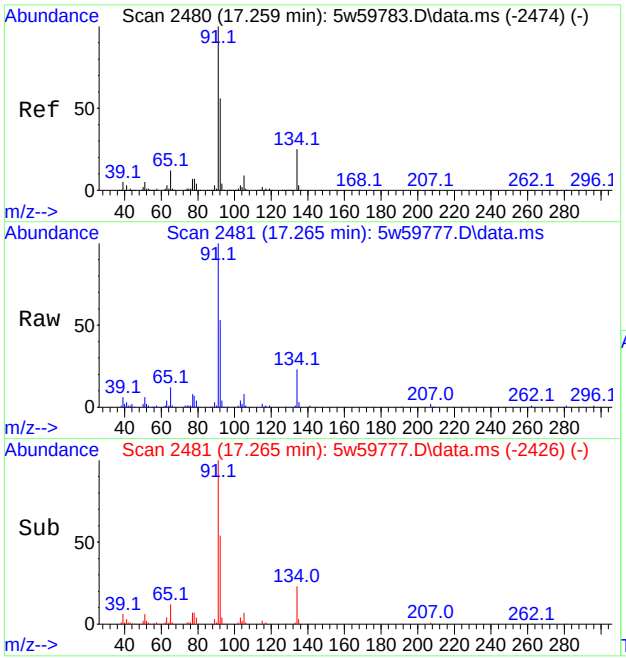


#103
o-DICHLOROBENZENE
Concen: 0.35 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 81336

Ion	Ratio	Lower	Upper
146	100		
148	61.4	34.3	94.3
111	38.4	9.2	69.2

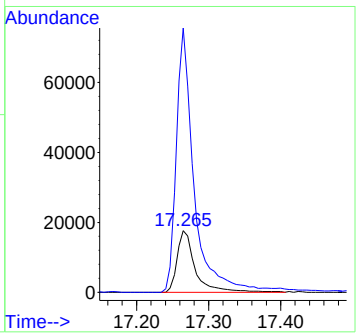


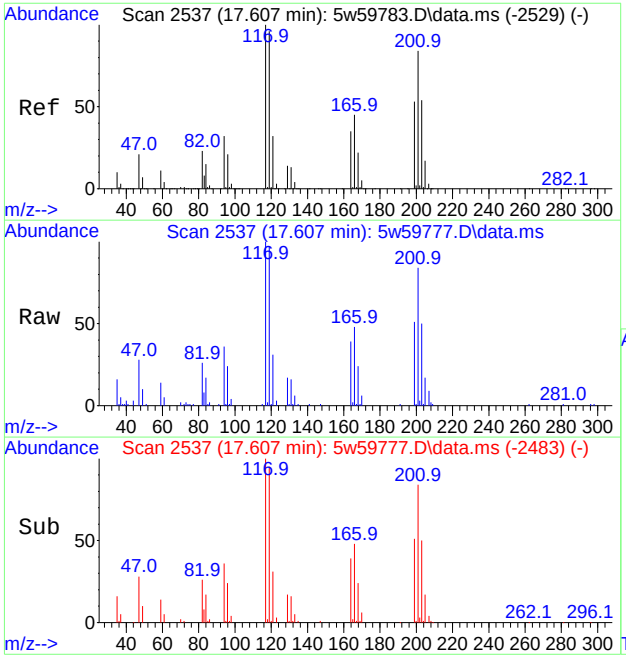


#104
n-BUTYLBENZENE
Concen: 0.32 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 31100

Ion	Ratio	Lower	Upper
134	100		
91	433.4	363.1	423.1#

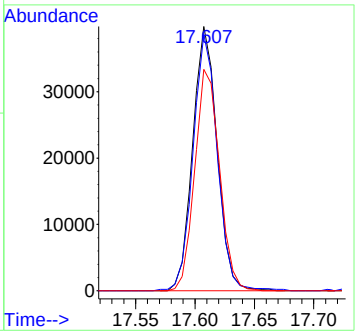


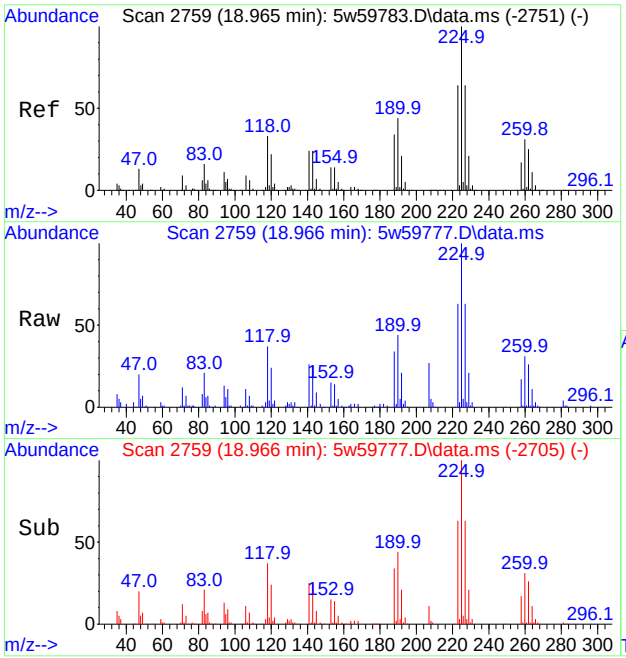


#105
HEXACHLOROETHANE
Concen: 0.36 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 56860

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	84.8	61.1	113.5

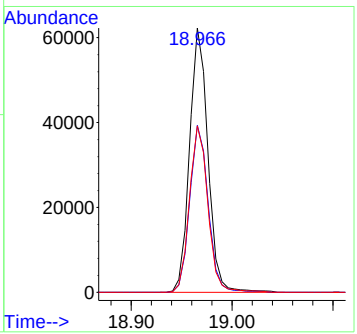


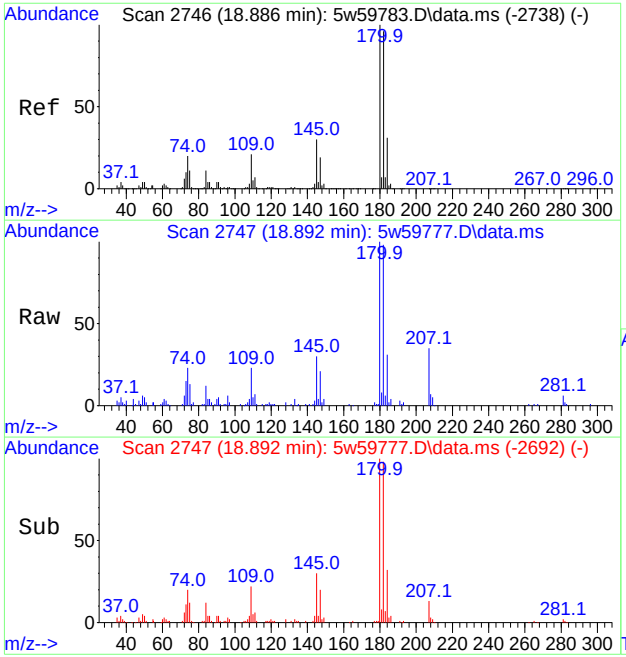


#106
HEXACHLOROBUTADIENE
Concen: 0.35 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:225 Resp: 78824

Ion	Ratio	Lower	Upper
225	100		
227	63.7	34.2	94.2
223	63.4	33.3	93.3

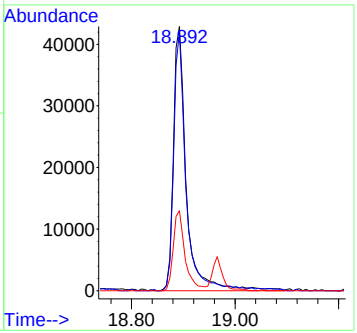


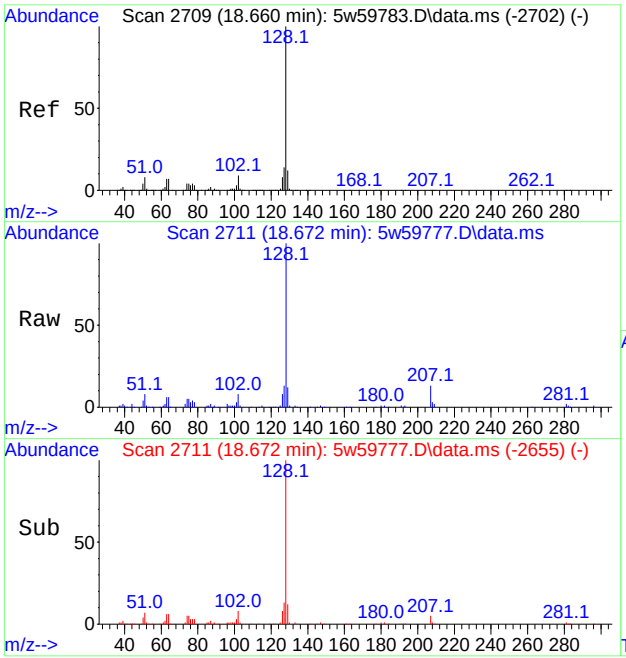


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.33 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:180 Resp: 74442

Ion	Ratio	Lower	Upper
180	100		
182	94.6	65.4	125.4
145	27.7	0.0	59.4

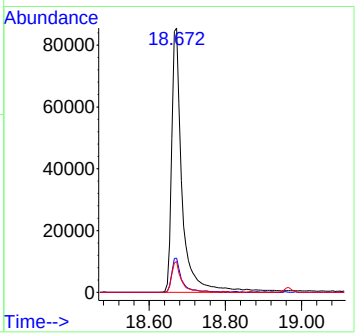


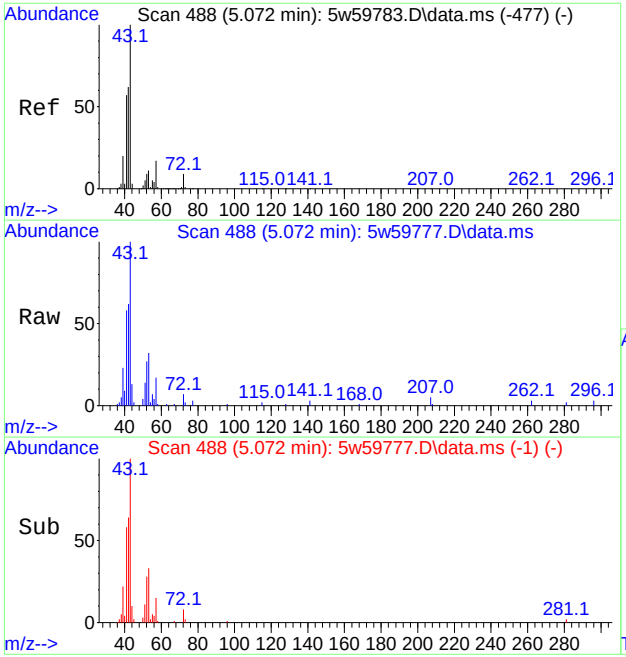


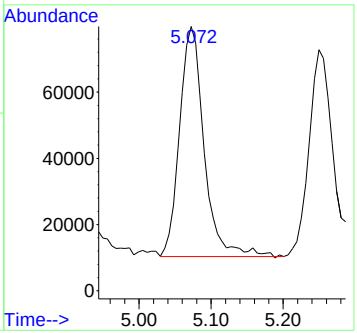
#108
NAPHTHALENE
Concen: 0.33 PPBV
RT: 18.672 min Scan# 2711
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:128 Resp: 165689

Ion	Ratio	Lower	Upper
128	100		
127	12.3	0.0	43.3
129	10.7	0.0	41.4







#110
TVHC as equiv Pentane
Concen: 0.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:TIC Resp: 163703

7.7.4

Manual Integration Approval Summary

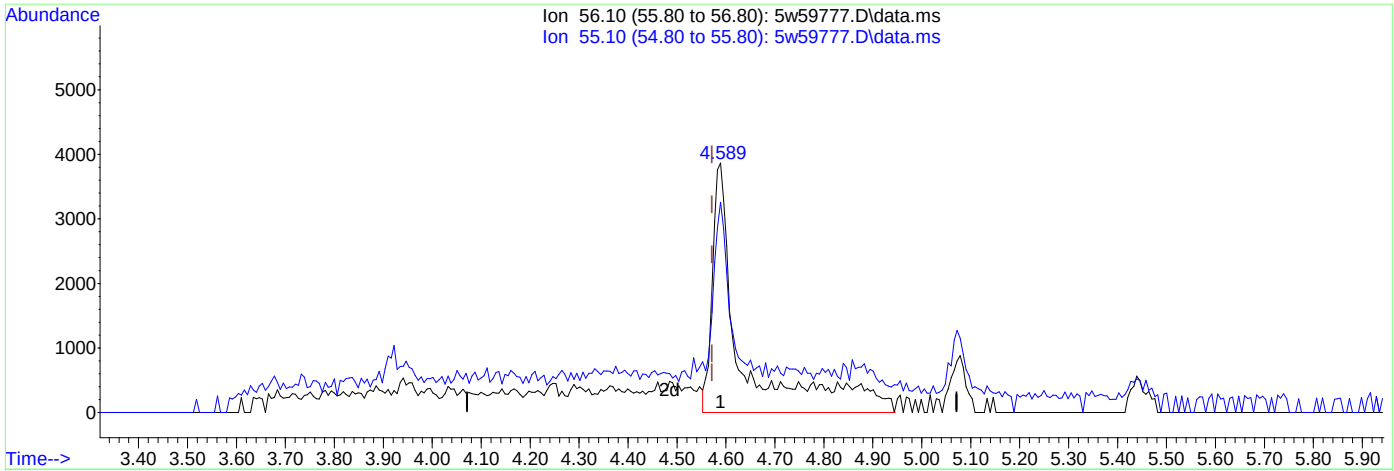
Sample Number: V5W2292-IC2292
Lab FileID: 5W59777.D
Injection Time: 11/07/25 03:41
Method: TO-15
Analyst approved: 11/07/25 21:30 Benjamin Kim
Supervisor approved: 11/10/25 12:57 Kanya Veerawat

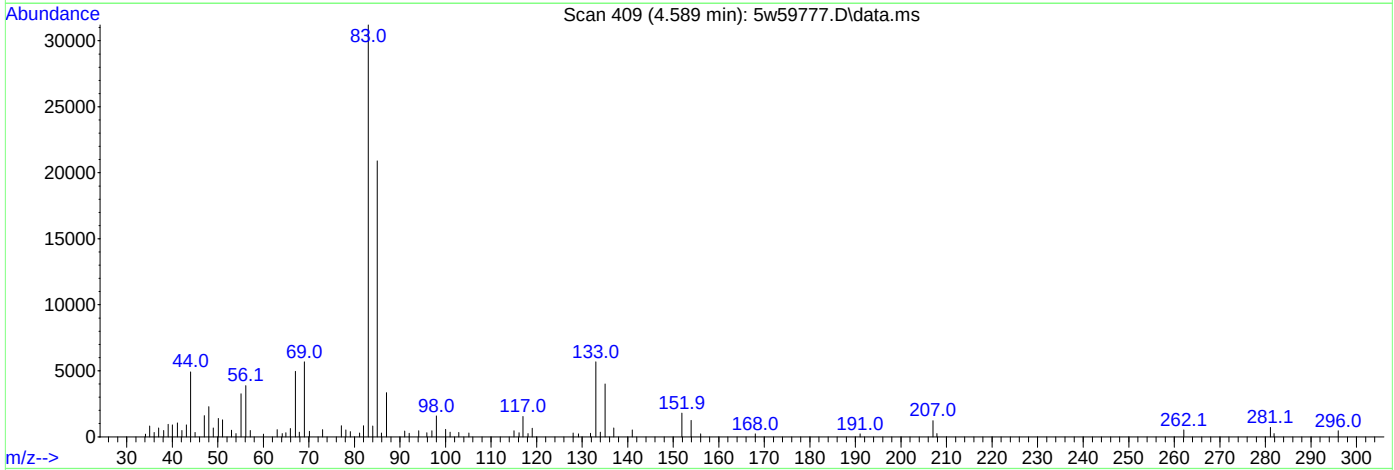
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.59	Poor instrument integration
Freon 123	306-83-2		4.59	Poor instrument integration
Methyl Acrylate	96-33-3		7.45	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.63PPBV

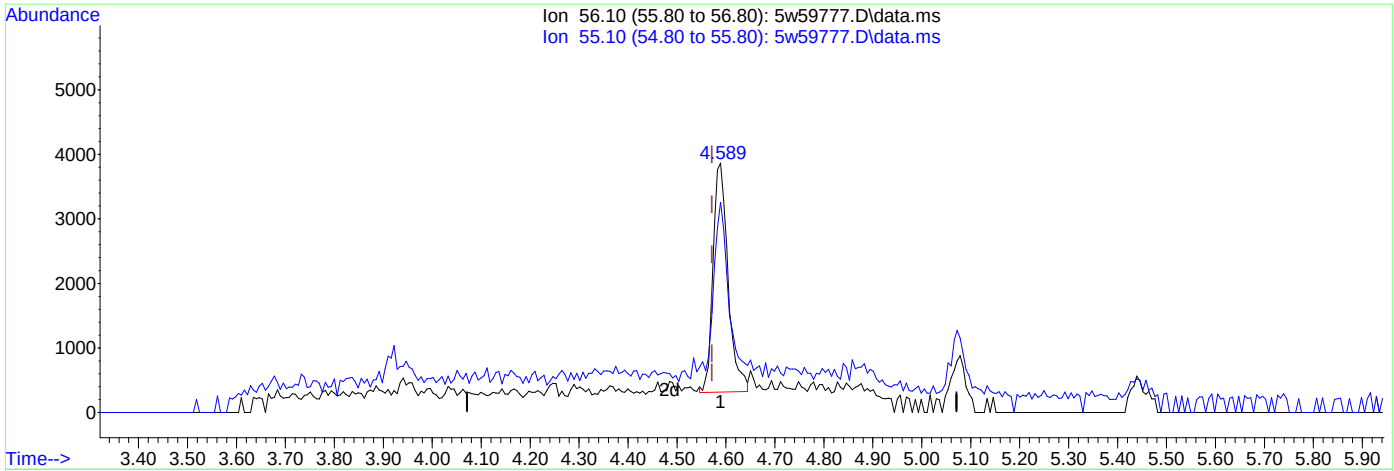
response 15953

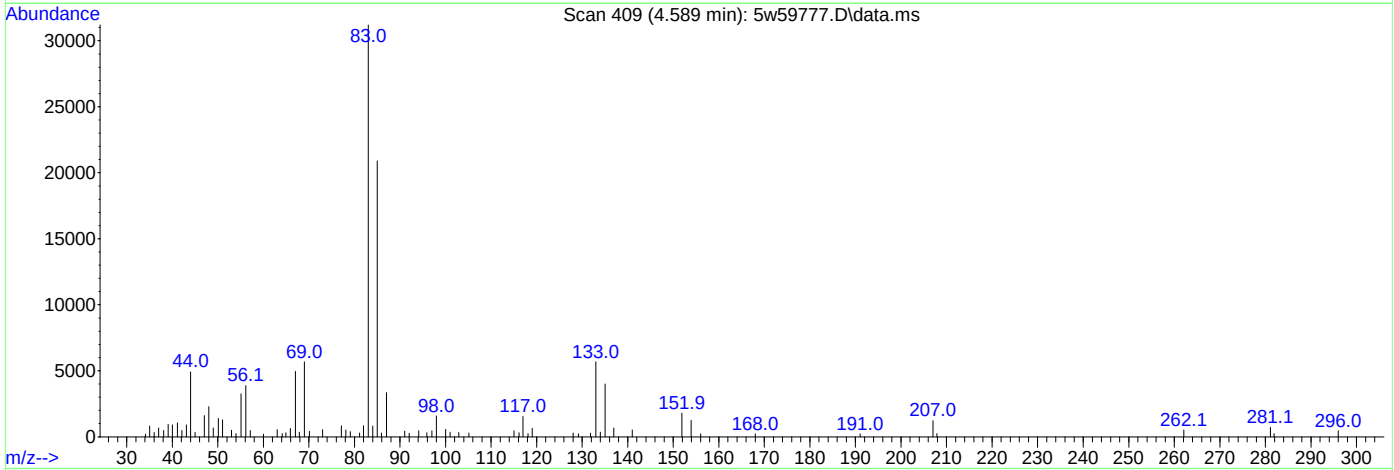
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	37.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.30PPBV m

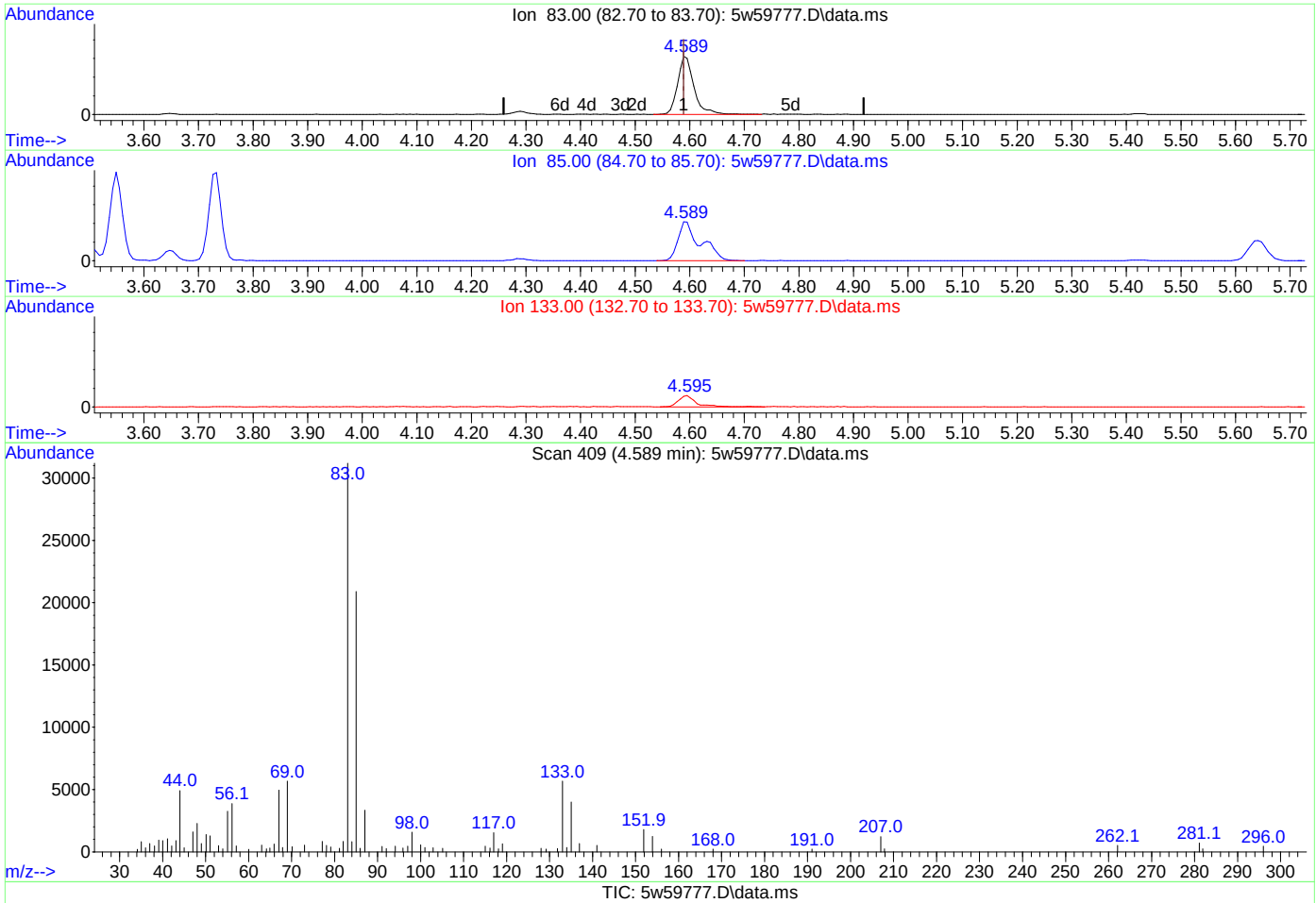
response 7542

Ion	Exp%	Act%
56.10	100	100
55.10	66.60	78.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV

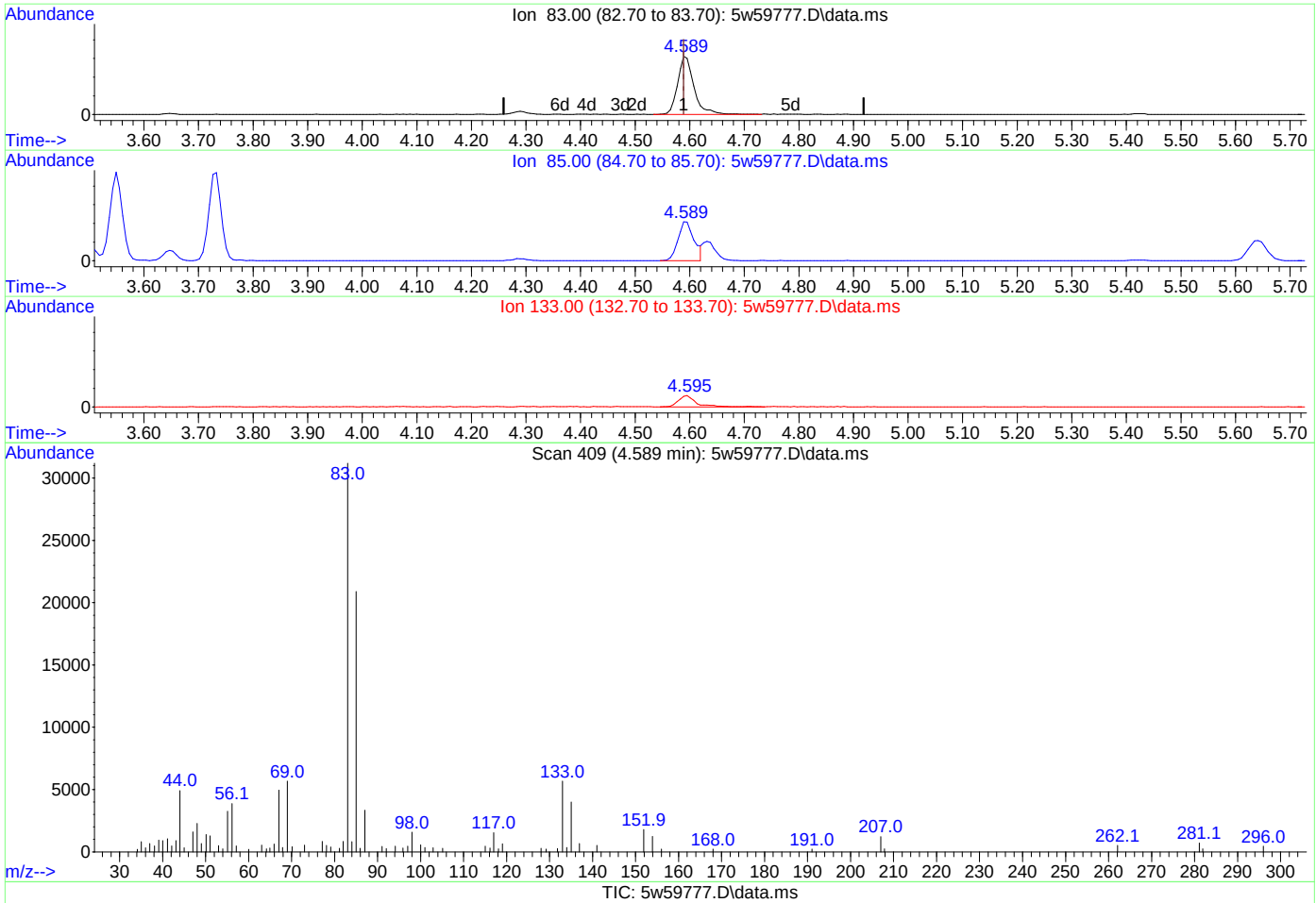
response 65470

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	91.44
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV m

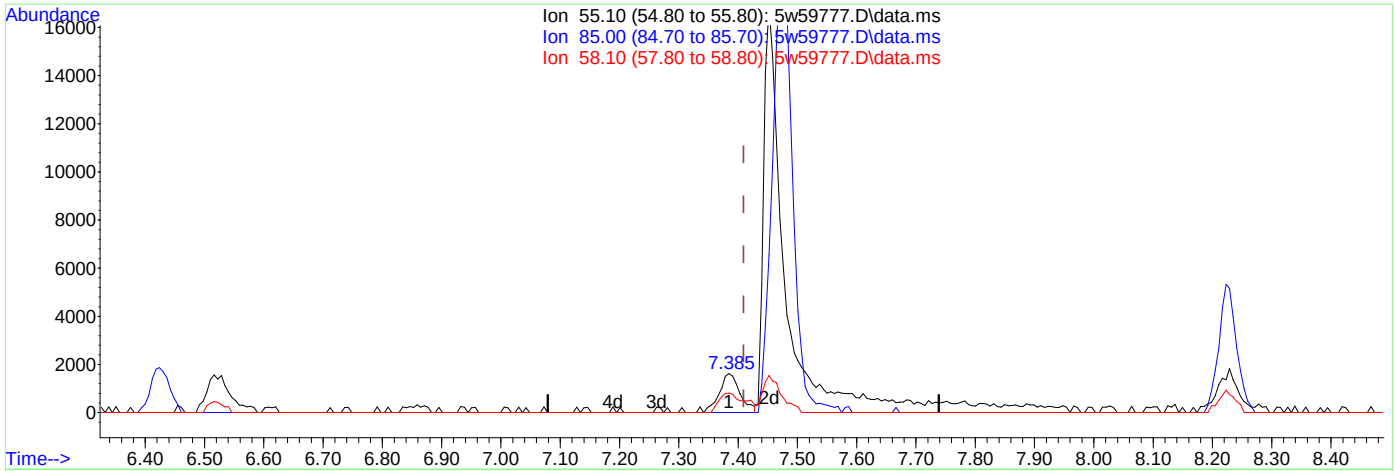
response 65470

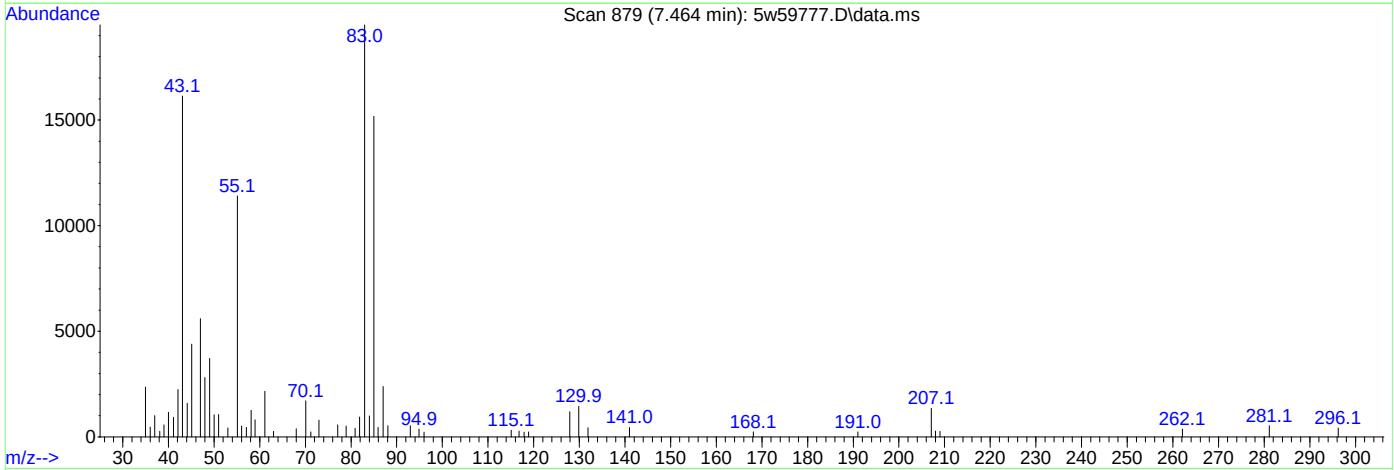
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.82
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.03PPBV

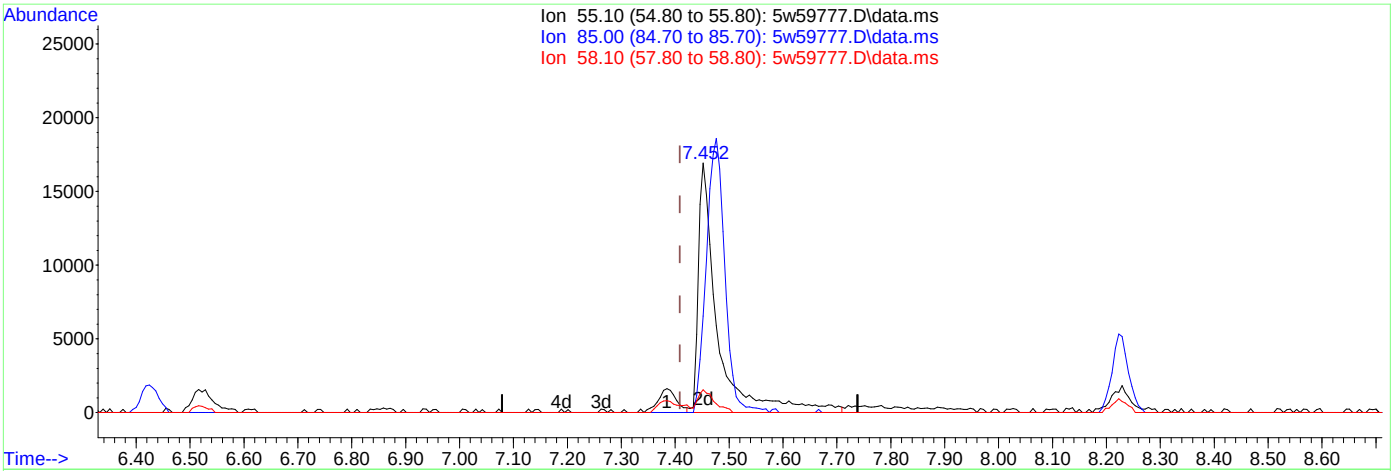
response 4031

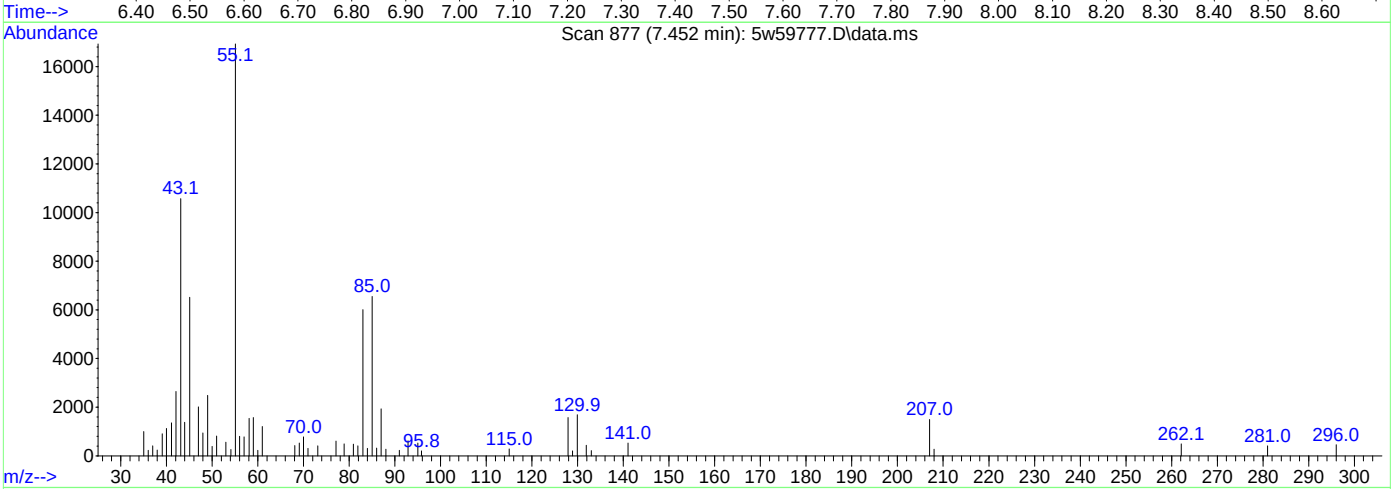
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	63.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.452min (+0.043) 0.30PPBV m

response 42153

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	6.03#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	462457	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2061895	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1060612	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	463168	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1407517	10.67	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.70%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	208779	4.00	PPBV	100
3) FREON 152A	3.445	65	155544	4.45	PPBV	99
4) CHLORODIFLUOROMETHANE	3.482	67	78206	4.97	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	379587	5.00	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	728724	4.91	PPBV	99
7) PROPYLENE	3.500	41	173008	4.61	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	566971	4.38	PPBV	99
9) FREON 114	3.733	85	711067	5.56	PPBV	99
10) CHLOROMETHANE	3.665	52	72544	4.72	PPBV	94
11) VINYL CHLORIDE	3.818	62	241017	4.89	PPBV	100
12) 1,3-BUTADIENE	3.916	54	147915	4.60	PPBV	99
13) n-BUTANE	3.947	43	235159	4.12	PPBV	98
14) BROMOMETHANE	4.106	94	254496	5.13	PPBV	99
15) CHLOROETHANE	4.228	64	109032	4.83	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	519301	4.56	PPBV	100
17) ACETONITRILE	4.485	41	129687	3.95	PPBV	100
18) ACROLEIN	4.577	56	83602	4.77	PPBV	95
19) FREON 123	4.595	83	601219m	5.20	PPBV	
20) FREON 123A	4.638	117	365750	5.13	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.797	101	638121	4.08	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	477900	4.35	PPBV	98
23) ACETONE	4.681	58	90961	4.50	PPBV	95
24) PENTANE	5.079	42	223509	3.74	PPBV	99
25) IODOMETHANE	5.256	142	791555	5.20	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	251542	4.66	PPBV	99
27) CARBON DISULFIDE	5.672	76	690855	4.87	PPBV	100
28) ETHANOL	4.320	45	86798	4.05	PPBV	100
29) BROMOETHENE	4.485	106	258283	5.39	PPBV	100
30) ACRYLONITRILE	5.048	52	155799	4.59	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	220204	4.55	PPBV	99
32) 3-CHLOROPROPENE	5.525	76	110268	4.99	PPBV	99
33) FREON 113	5.641	151	441351	4.66	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	257488	4.68	PPBV	97
35) TERTIARY BUTYL ALCOHOL	5.384	59	498869	4.44	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.486	73	676684	5.04	PPBV	100
37) TETRAHYDROFURAN	7.868	72	99619	5.53	PPBV	100
38) HEXANE	7.385	57	379941	5.02	PPBV	99
39) VINYL ACETATE	6.571	86	40455	4.63	PPBV	96
40) 1,1-DICHLOROETHANE	6.424	63	482232	4.85	PPBV	99
41) METHYL ETHYL KETONE	6.804	72	108805	5.80	PPBV	98
42) cis-1,2-DICHLOROETHYLENE	7.201	96	269410	4.74	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	116383	5.65	PPBV	97
44) ETHYL ACETATE	7.428	61	87258m	5.60	PPBV	
45) METHYL ACRYLATE	7.409	55	471994	5.35	PPBV	99
46) CHLOROFORM	7.477	83	570969	4.95	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	444023	5.08	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	592452	4.75	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	658939	4.82	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	401494	4.97	PPBV		100
52)	BENZENE	8.853	78	741517	5.39	PPBV		100
53)	CYCLOHEXANE	9.110	84	297316	5.48	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.349	71	144492	5.25	PPBV		97
55)	TRICHLOROETHYLENE	9.887	95	369372	5.01	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	300591	5.12	PPBV		100
57)	DIBROMOMETHANE	9.630	174	391164	4.83	PPBV		99
58)	ETHYL ACRYLATE	9.685	55	582502	5.68	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	653402	5.05	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.912	57	1206122	5.26	PPBV		100
61)	1,4-DIOXANE	9.912	88	168473	5.89	PPBV	#	8
62)	HEPTANE	10.187	43	406924	4.93	PPBV		99
63)	METHYL METHACRYLATE	10.113	69	247000	5.84	PPBV		97
64)	METHYL ISOBUTYL KETONE	10.799	58	240795	5.60	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	10.750	75	494703	5.47	PPBV		86
66)	TOLUENE	11.722	92	547474	5.55	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	446082m	5.43	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	434584	5.29	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	301561	5.53	PPBV		99
71)	2-HEXANONE	12.022	58	344921	6.43	PPBV		99
72)	ETHYL METHACRYLATE	12.028	69	445397	6.46	PPBV		97
73)	TETRACHLOROETHYLENE	12.872	164	427336	5.33	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	728217	5.41	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	595110	5.98	PPBV		100
76)	OCTANE	12.744	43	576898	5.29	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	463451	5.26	PPBV		99
78)	CHLOROBENZENE	13.582	112	750075	5.17	PPBV		98
79)	ETHYLBENZENE	13.986	91	1198151	5.80	PPBV		100
80)	m,p-XYLENE	14.182	106	943241	11.83	PPBV		99
81)	o-XYLENE	14.677	106	456348	6.21	PPBV		100
82)	STYRENE	14.573	104	711140	6.37	PPBV		100
83)	NONANE	14.934	43	586796	5.44	PPBV		99
84)	BROMOFORM	14.249	173	765790	5.54	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	804240	6.16	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	563086	5.21	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	1351649	5.60	PPBV		100
89)	BROMOBENZENE	15.375	77	663458	5.25	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	351599	5.42	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	357322	5.54	PPBV		99
92)	4-ETHYLTOLUENE	15.962	105	1362882	6.29	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	1159491	5.77	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	573224	5.89	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	250823	6.02	PPBV		96
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	1191915	6.18	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	871935	5.56	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	1137176	6.44	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	878264	5.40	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	309649	5.79	PPBV		97
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	1209627	5.87	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	367882	6.01	PPBV		96
103)	o-DICHLOROBENZENE	16.977	146	831952	5.25	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	353476	6.27	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	597723	5.71	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	827665	5.13	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	807736	7.16	PPBV		100
108)	NAPHTHALENE	18.660	128	1912544	7.30	PPBV		99
110)	TVHC as equiv Pentane	5.072	TIC	1469674	4.29	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

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

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

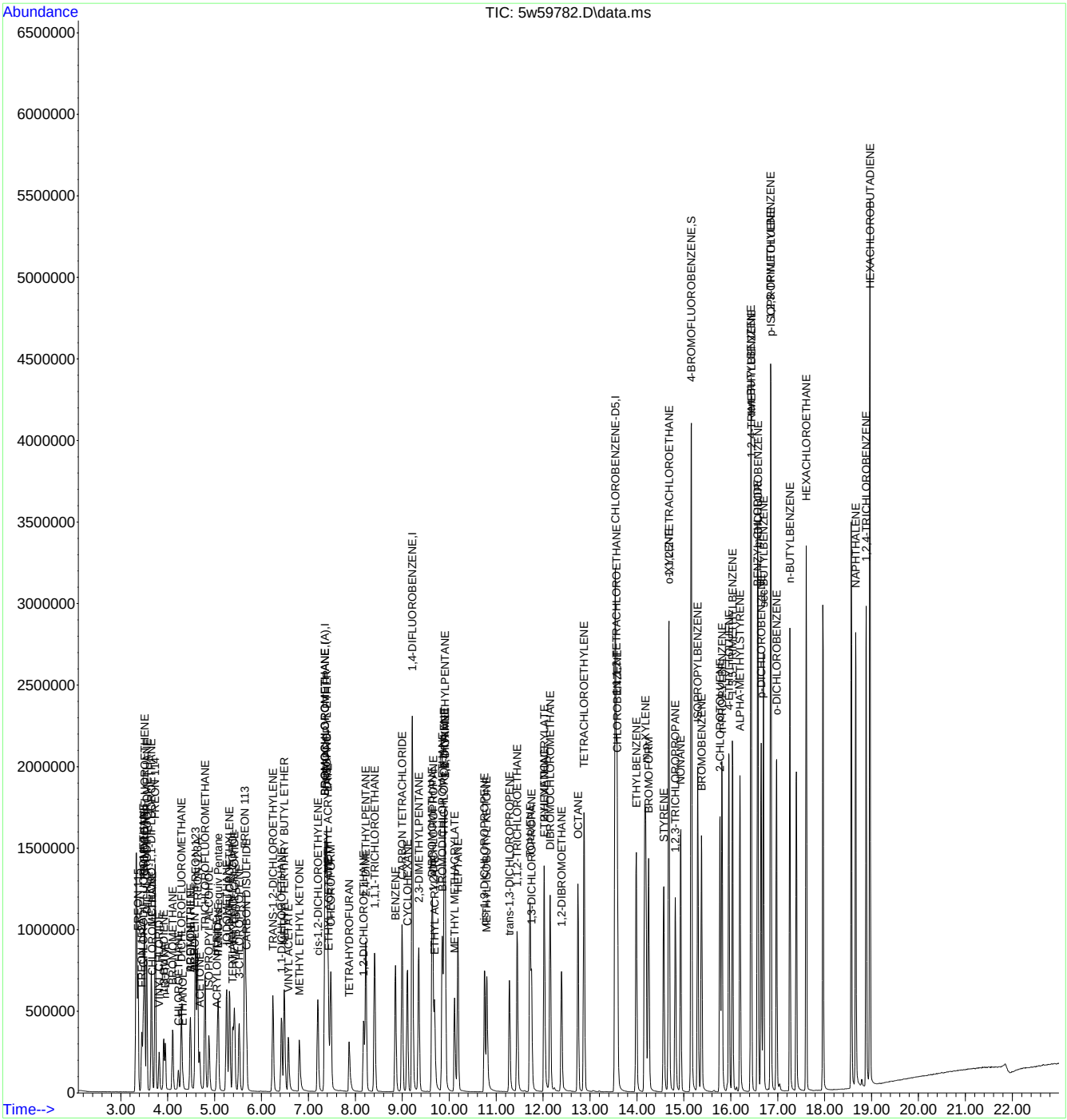
7.7.5

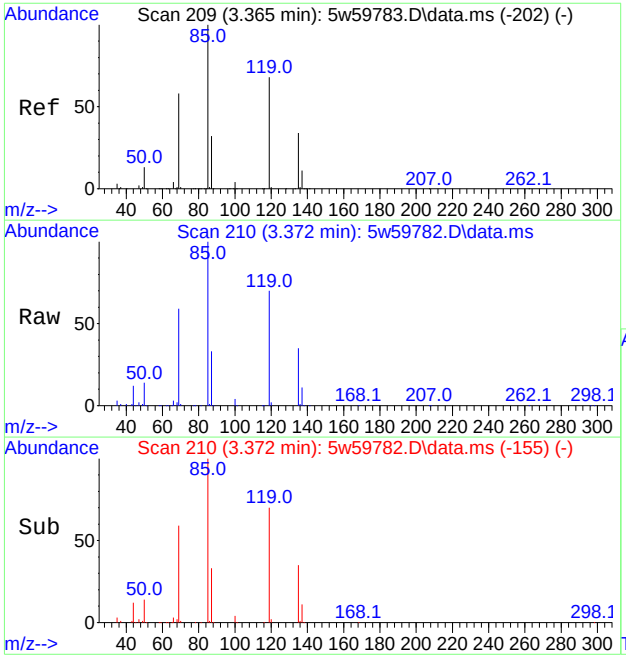
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

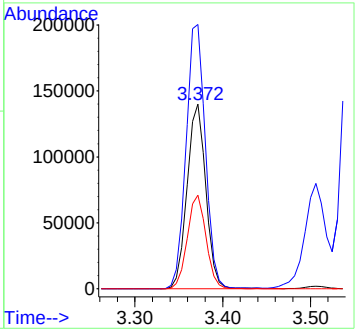


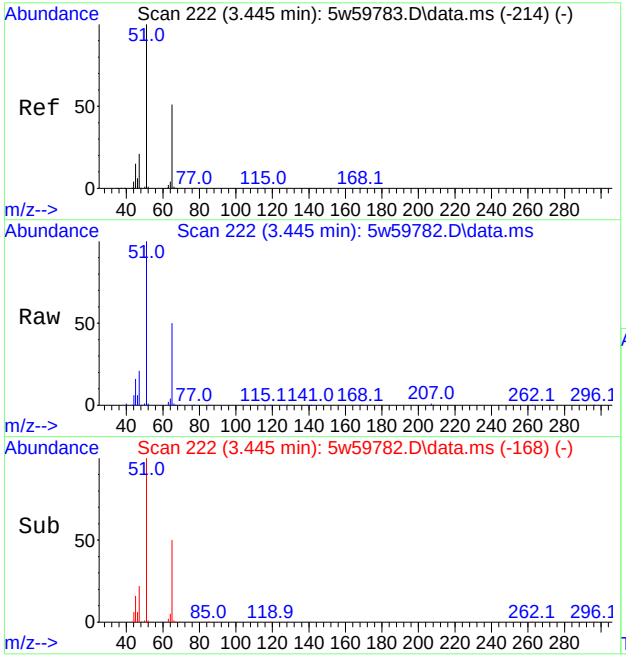


#2
FREON 115
Concen: 4.00 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:119 Resp: 208779

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.6	20.6	80.6

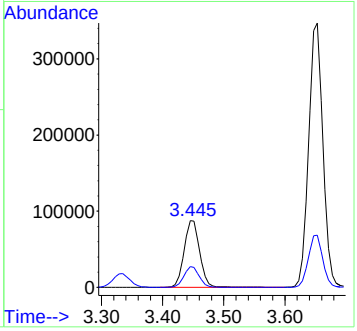


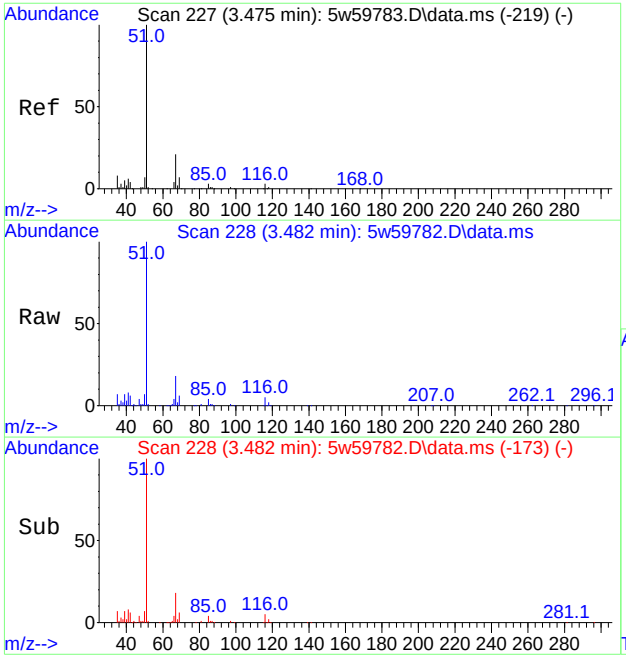


#3
FREON 152A
Concen: 4.45 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 155544

Ion	Ratio	Lower	Upper
65	100		
45	30.4	0.0	60.0

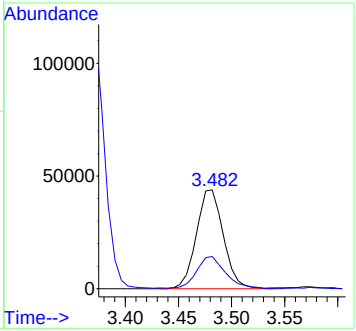


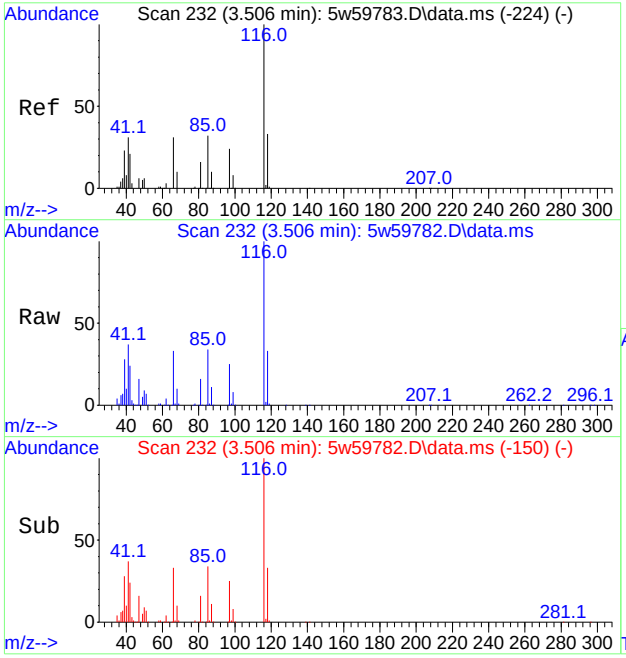


#4
CHLORODIFLUOROMETHANE
Concen: 4.97 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 78206

Ion	Ratio	Lower	Upper
67	100		
69	32.7	1.0	61.0

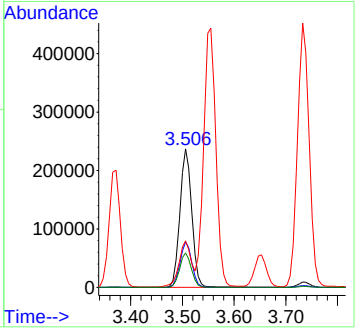


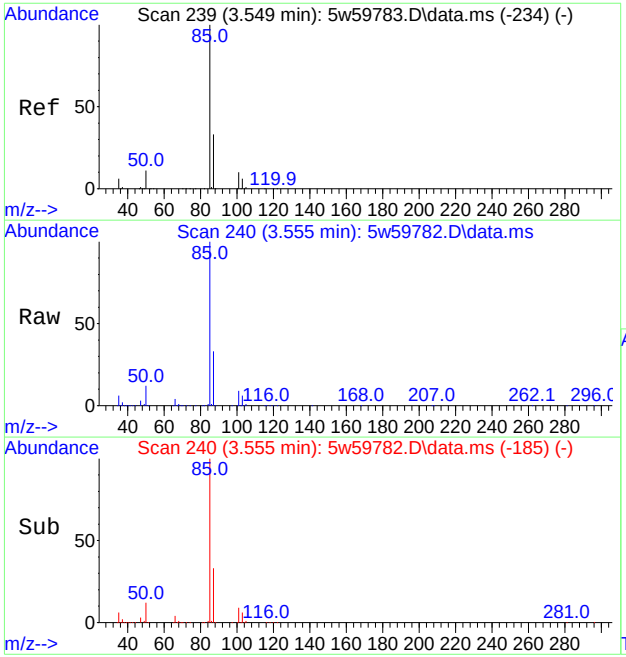


#5
CHLOROTRIFLUOROETHENE
Concen: 5.00 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:116 Resp: 379587

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.9	42.5
85	35.3	23.7	44.1
97	24.4	17.0	31.6

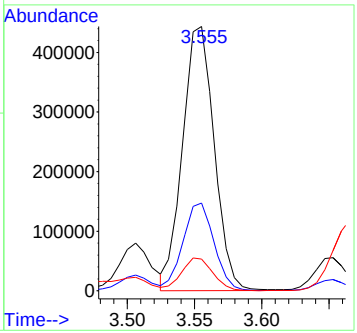


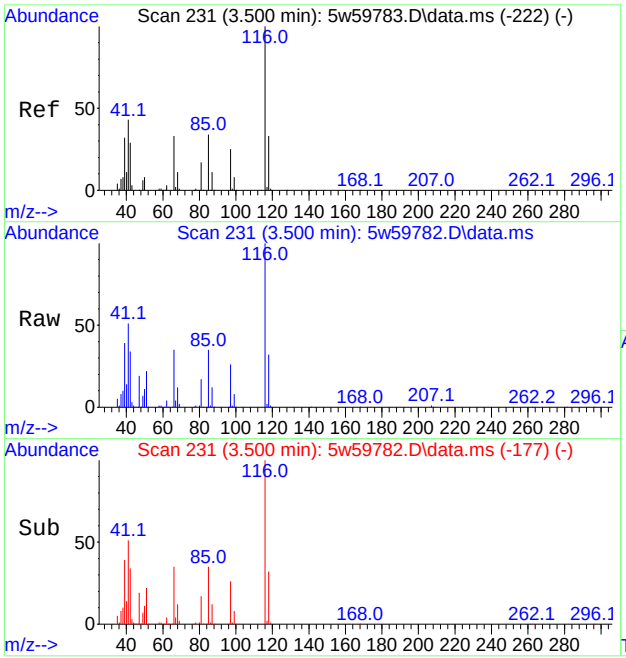


#6
DICHLORODIFLUOROMETHANE
Concen: 4.91 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 728724

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	12.3	0.0	41.7

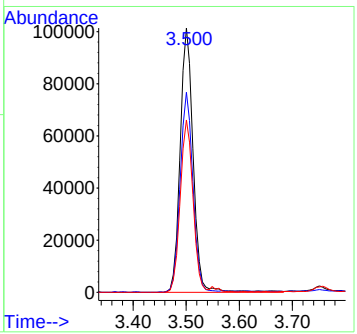


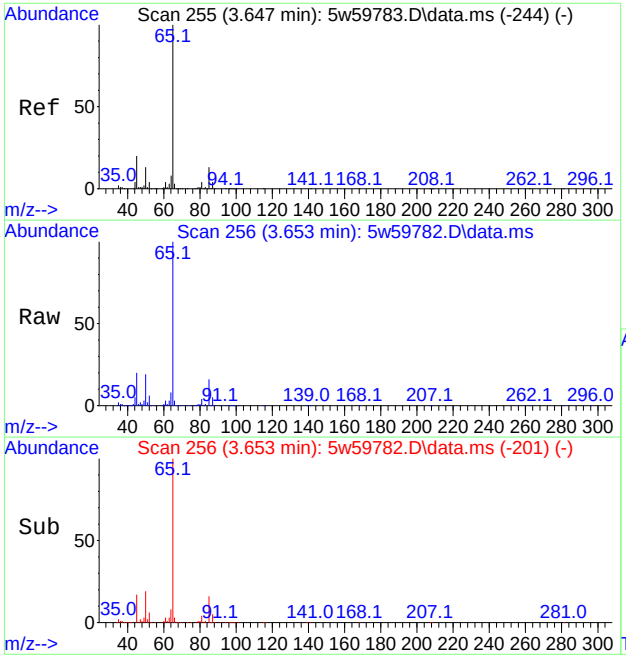


#7
PROPYLENE
Concen: 4.61 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 173008

Ion	Ratio	Lower	Upper
41	100		
39	77.1	45.1	105.1
42	63.7	36.3	96.3

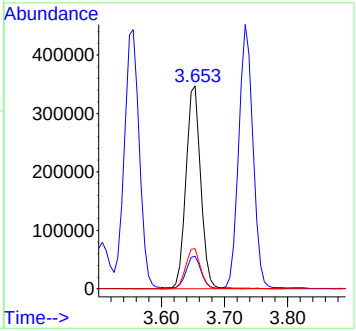


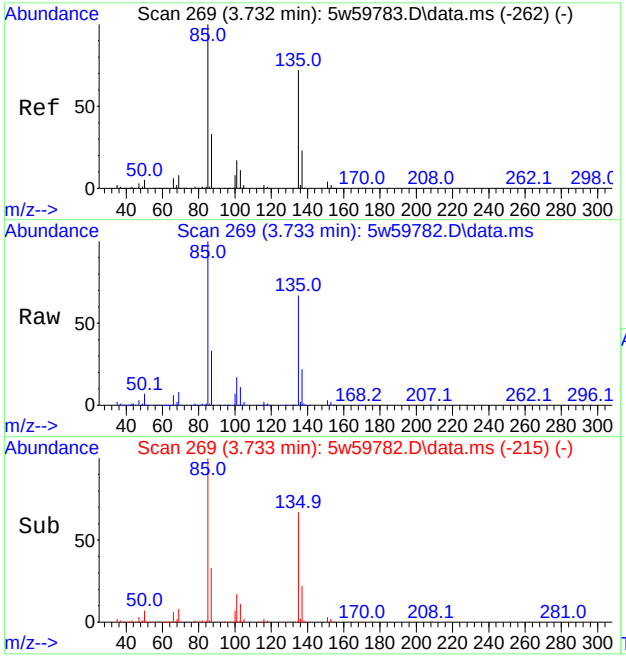


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 4.38 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 566971

Ion	Ratio	Lower	Upper
65	100		
85	16.1	11.5	21.3
45	20.3	14.0	26.0

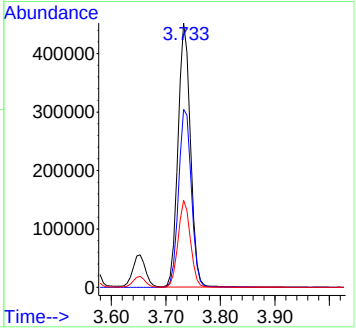


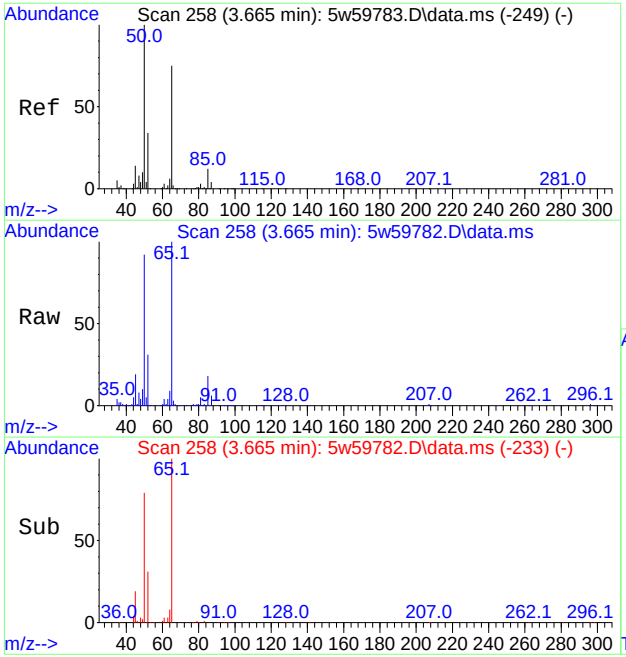


#9
FREON 114
Concen: 5.56 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 711067

Ion	Ratio	Lower	Upper
85	100		
135	69.7	40.5	100.5
87	32.8	3.0	63.0

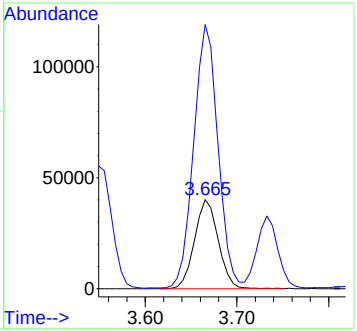


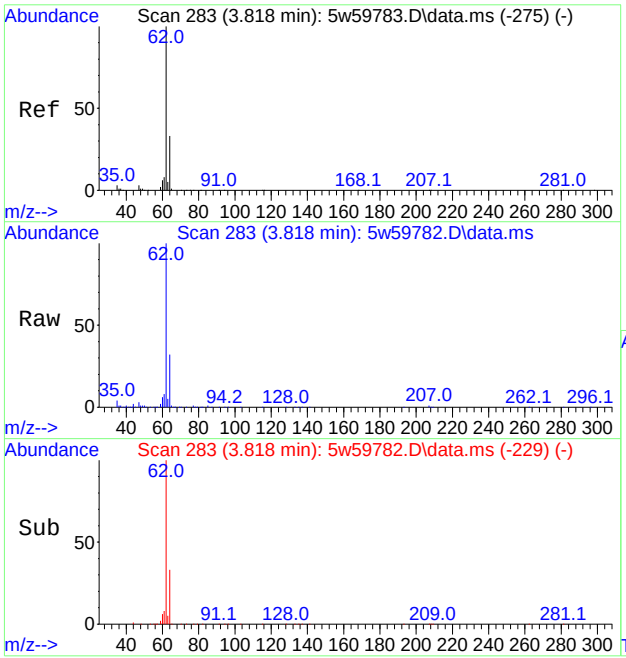


#10
CHLOROMETHANE
Concen: 4.72 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 72544

Ion	Ratio	Lower	Upper
52	100		
50	285.9	267.9	327.9

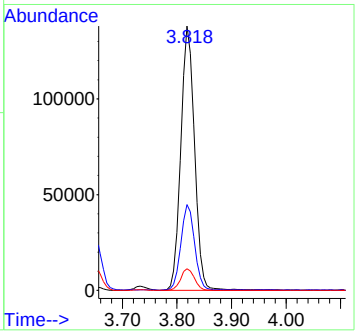


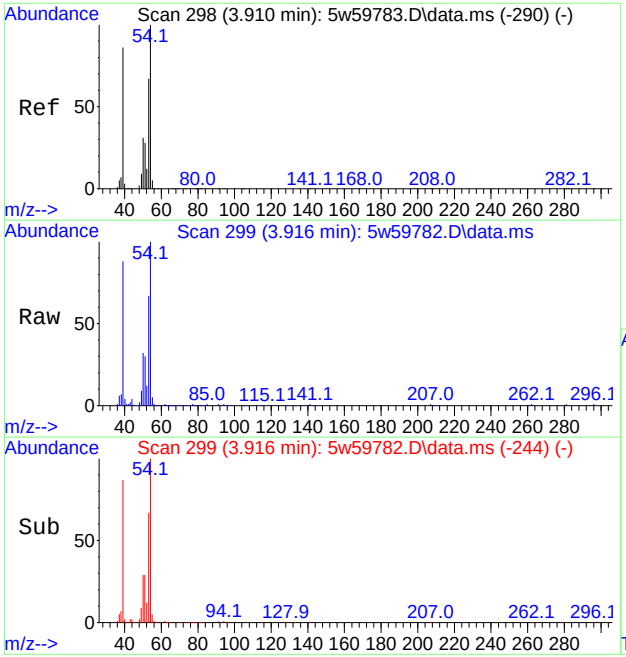


#11
VINYL CHLORIDE
Concen: 4.89 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 241017

Ion	Ratio	Lower	Upper
62	100		
64	33.5	3.6	63.6
61	8.2	0.0	38.2

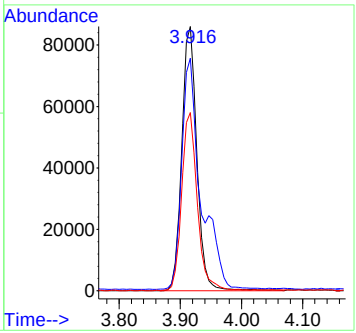


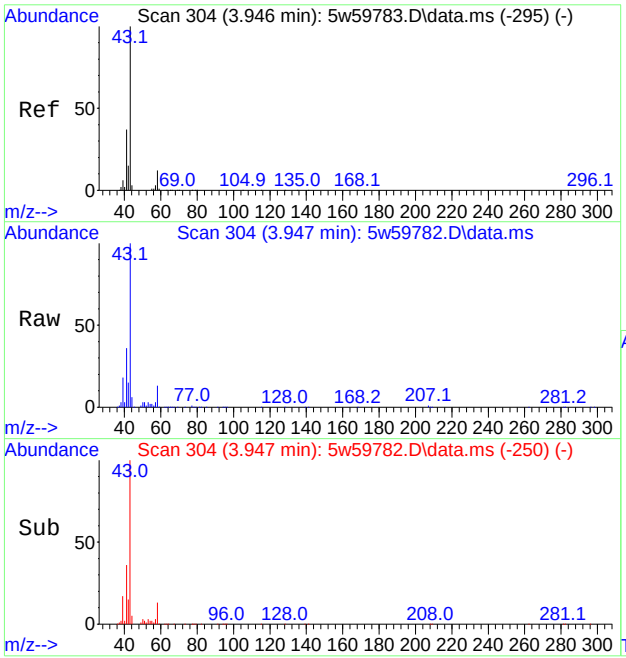


#12
1,3-BUTADIENE
Concen: 4.60 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 54 Resp: 147915

Ion	Ratio	Lower	Upper
54	100		
39	111.9	82.0	142.0
53	71.7	40.2	100.2

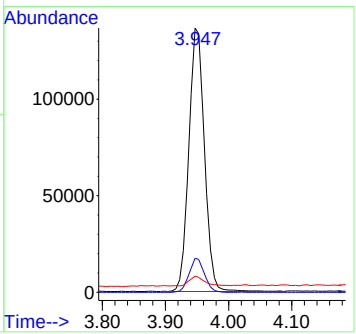


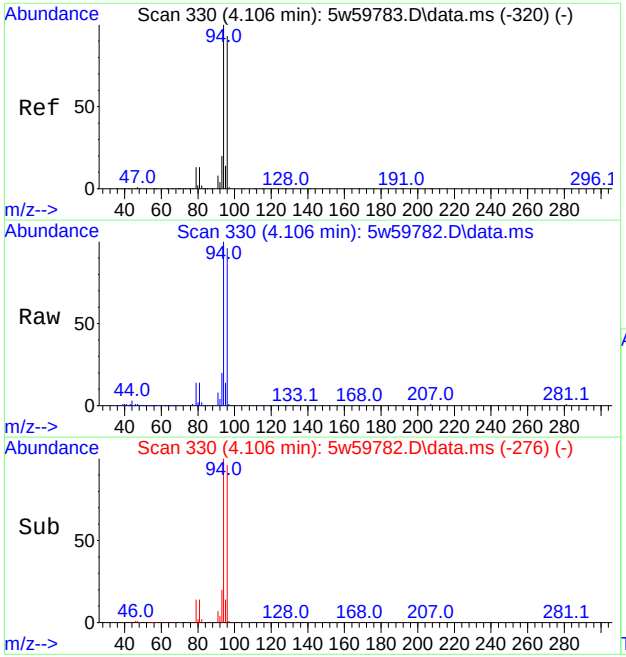


#13
n-BUTANE
Concen: 4.12 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 235159

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	6.5	0.0	34.9

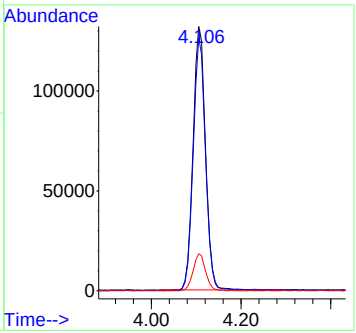


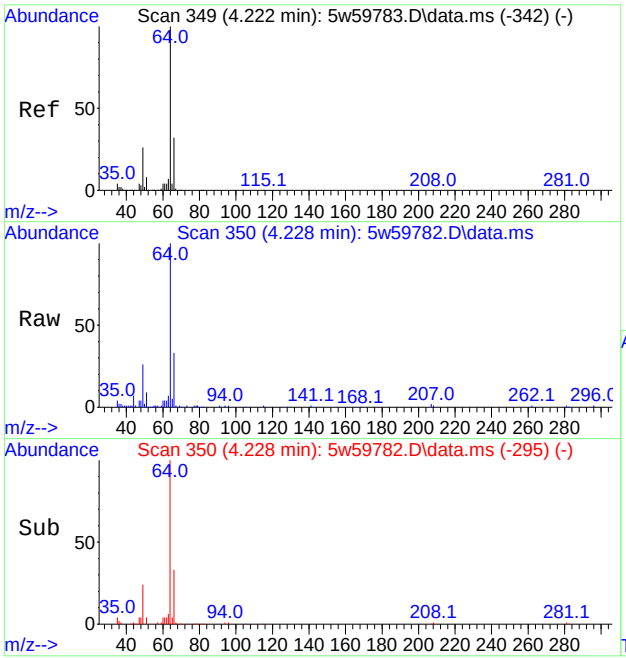


#14
BROMOMETHANE
Concen: 5.13 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 94 Resp: 254496

Ion	Ratio	Lower	Upper
94	100		
96	96.4	65.3	125.3
95	14.1	0.0	44.1

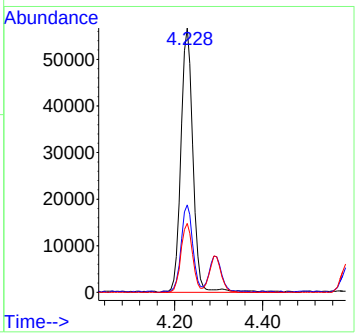


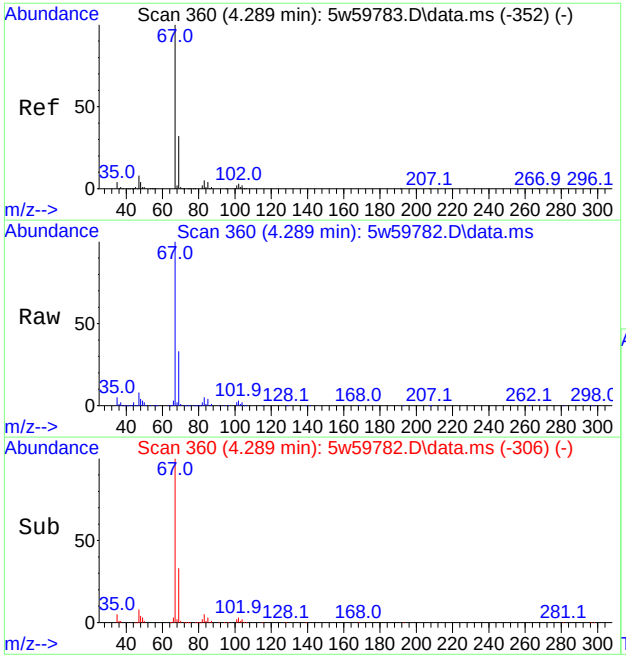


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 64 Resp: 109032

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

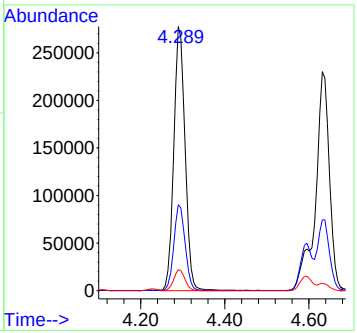


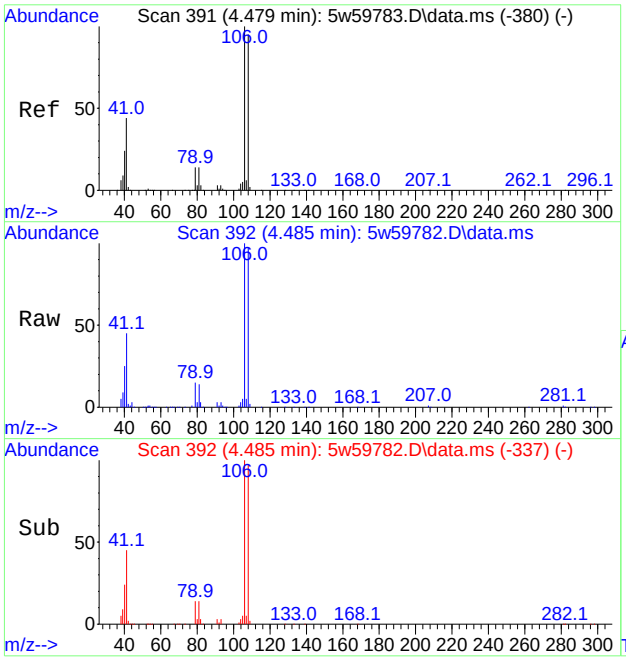


#16
DICHLOROFLUOROMETHANE
Concen: 4.56 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 519301

Ion	Ratio	Lower	Upper
67	100		
69	32.7	22.7	42.3
47	8.0	5.6	10.4

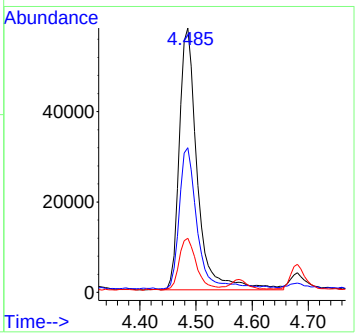


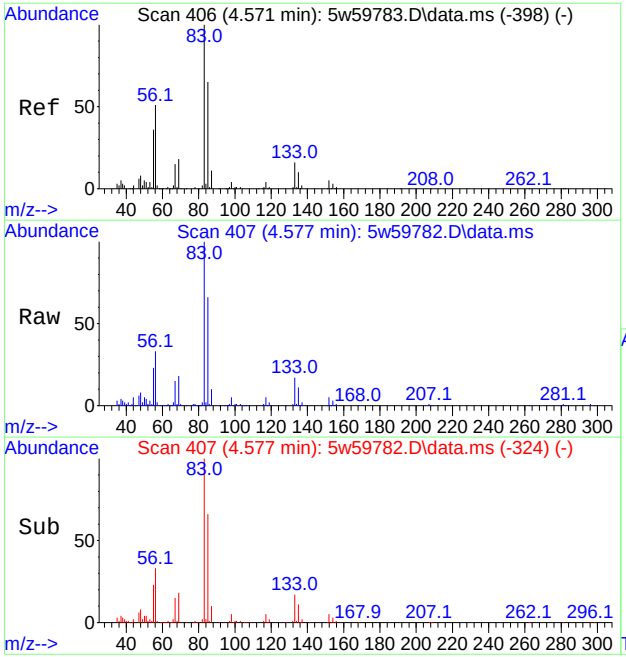


#17
ACETONITRILE
Concen: 3.95 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 129687

Ion	Ratio	Lower	Upper
41	100		
40	54.3	37.9	70.5
39	19.1	13.4	24.8

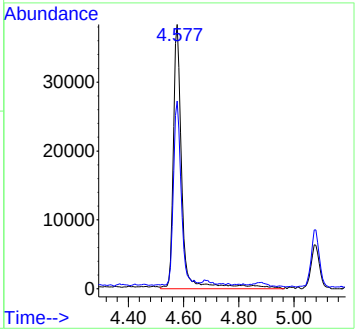


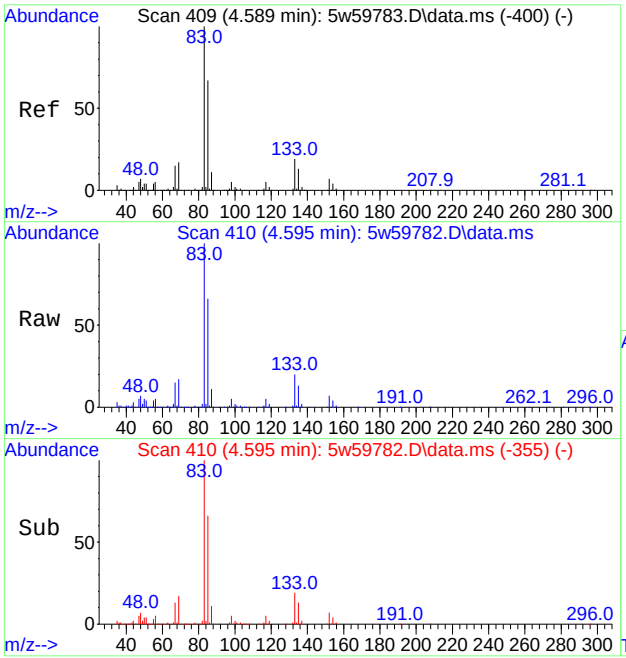


#18
ACROLEIN
Concen: 4.77 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 56 Resp: 83602

Ion	Ratio	Lower	Upper
56	100		
55	62.6	46.6	86.6

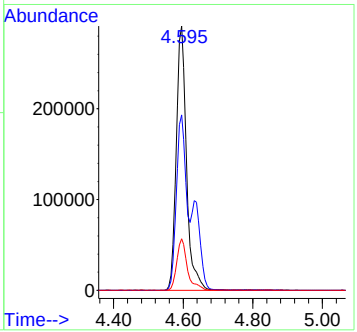


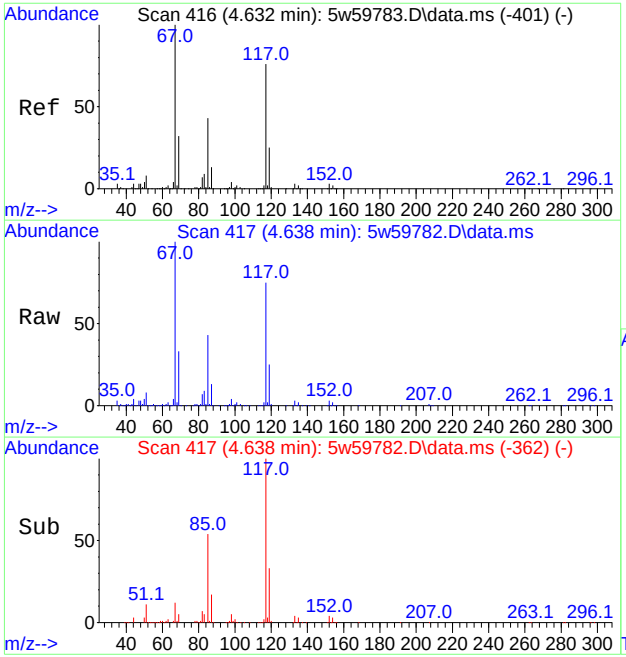


#19
FREON 123
Concen: 5.20 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 601219

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	20.5	0.0	50.7

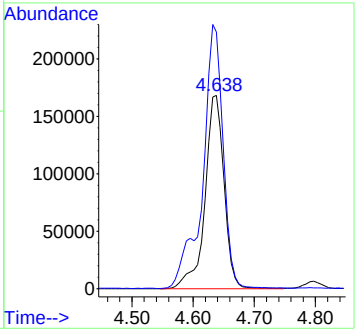


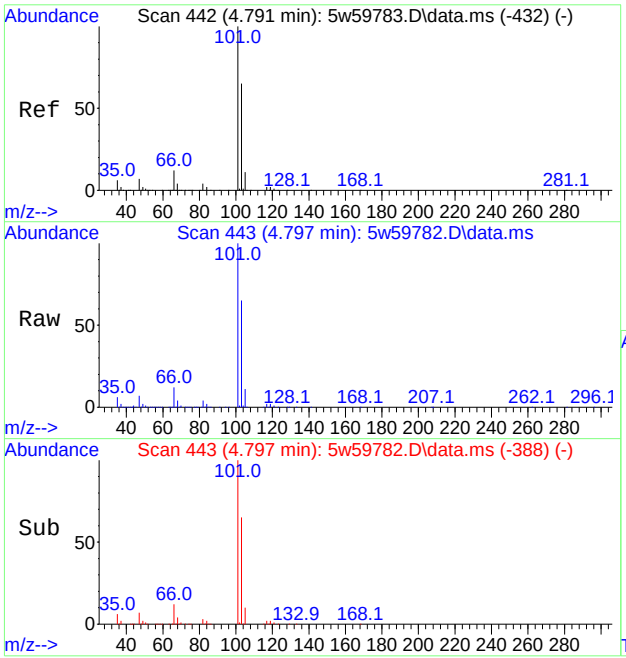


#20
FREON 123A
Concen: 5.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 365750

Ion	Ratio	Lower	Upper
117	100		
67	145.9	114.6	174.6

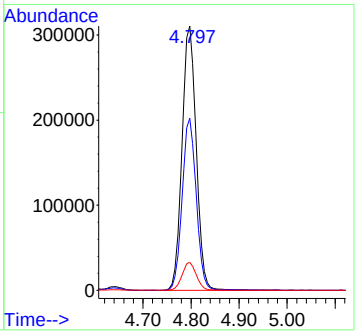


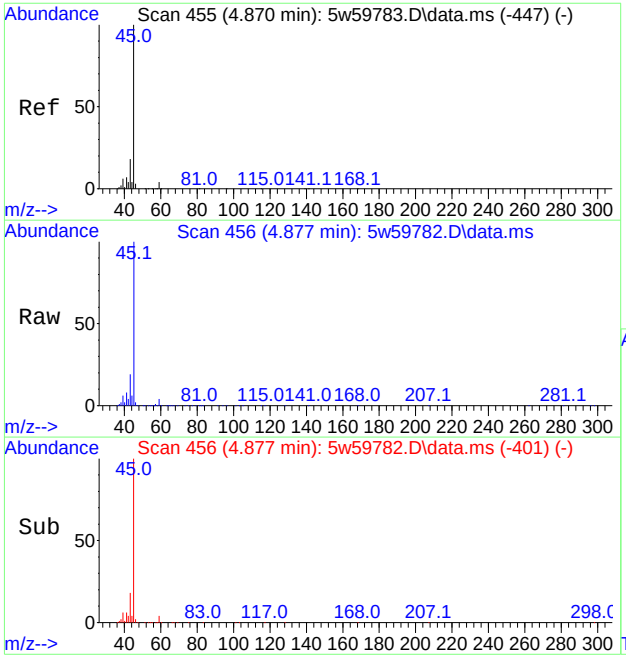


#21
TRICHLOROFLUOROMETHANE
Concen: 4.08 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:101 Resp: 638121

Ion	Ratio	Lower	Upper
101	100		
103	64.6	35.0	95.0
105	10.8	0.0	40.7

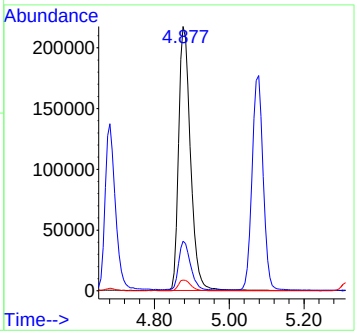


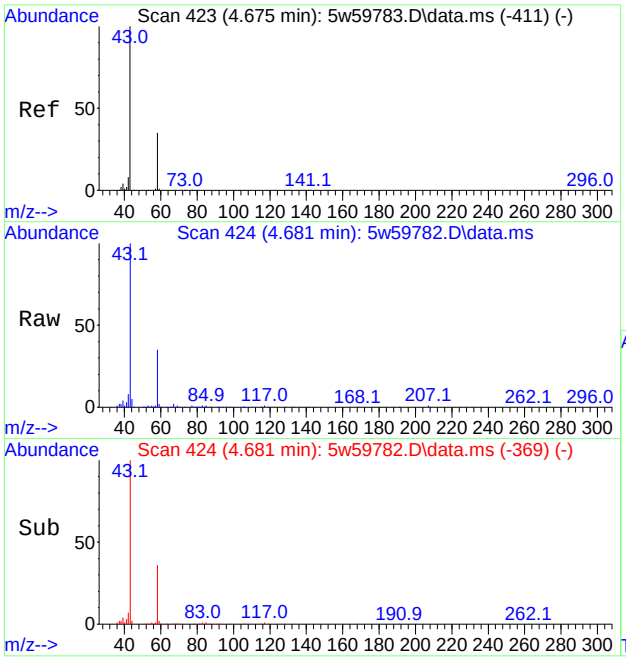


#22
ISOPROPYL ALCOHOL
Concen: 4.35 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 477900

Ion	Ratio	Lower	Upper
45	100		
43	18.8	0.0	47.8
59	4.1	0.0	34.1

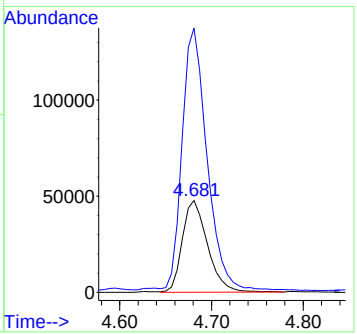


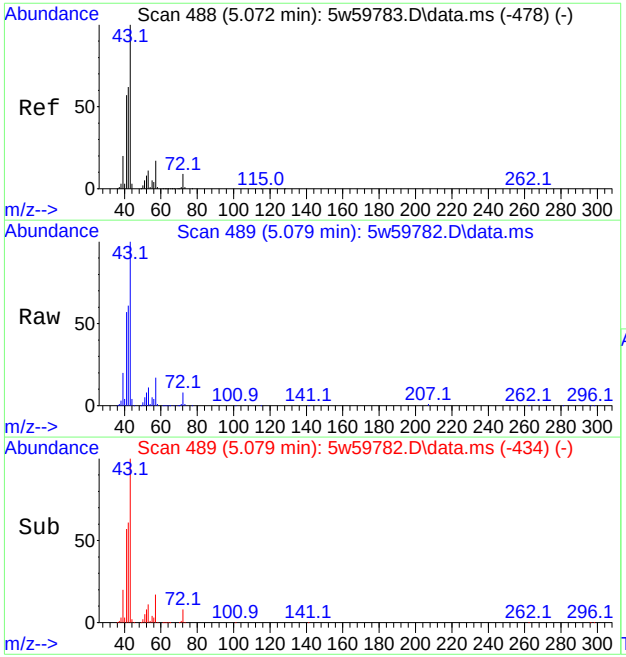


#23
ACETONE
Concen: 4.50 PPBV
RT: 4.681 min Scan# 424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 90961

Ion	Ratio	Lower	Upper
58	100		
43	290.9	252.3	312.3

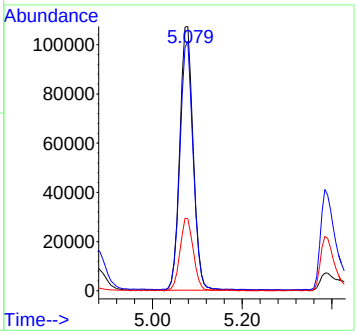


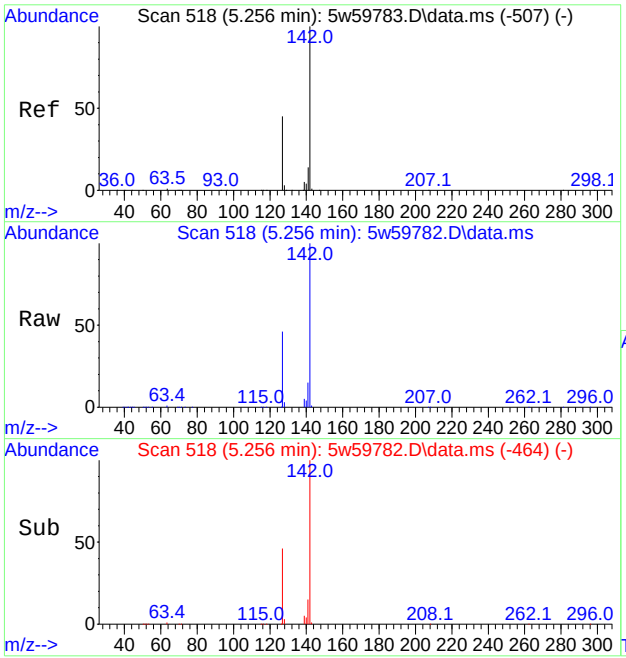


#24
PENTANE
Concen: 3.74 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 42 Resp: 223509

Ion	Ratio	Lower	Upper
42	100		
41	93.1	62.3	122.3
57	27.7	0.0	57.7

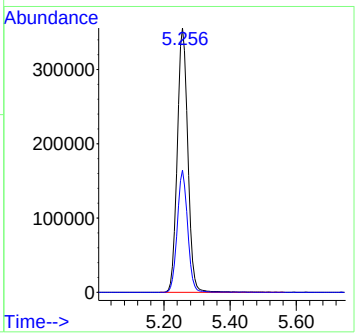


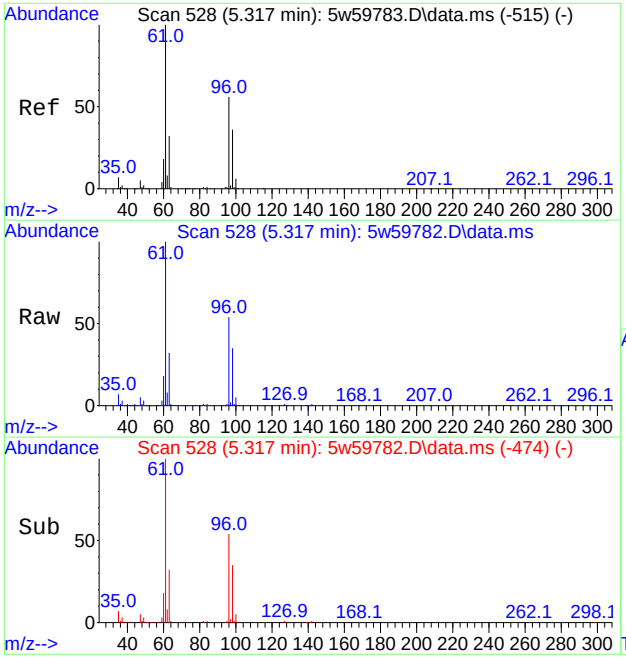


#25
IODOMETHANE
Concen: 5.20 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:142 Resp: 791555

Ion	Ratio	Lower	Upper
142	100		
127	45.5	16.0	76.0

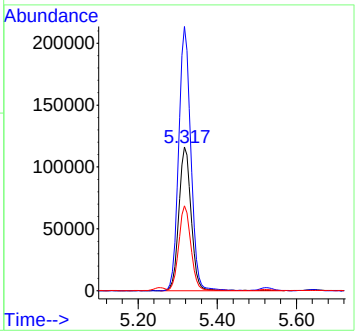


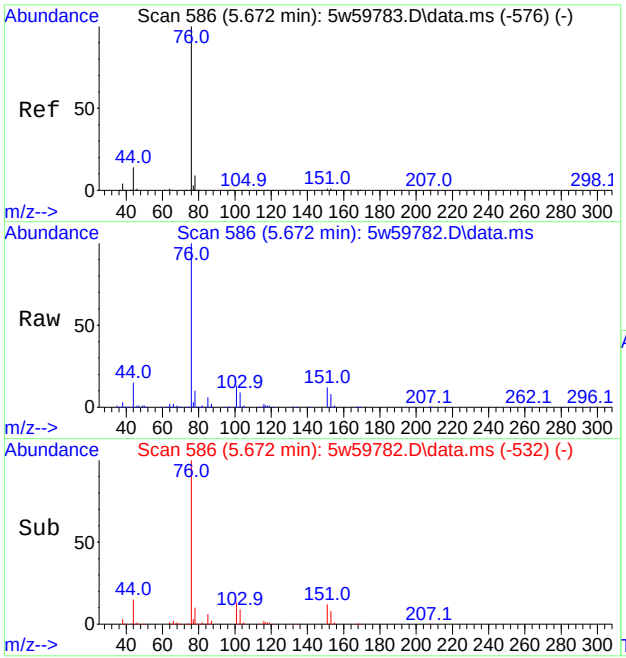


#26
1,1-DICHLOROETHYLENE
Concen: 4.66 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 251542

Ion	Ratio	Lower	Upper
96	100		
61	180.6	148.5	208.5
63	57.9	27.4	87.4

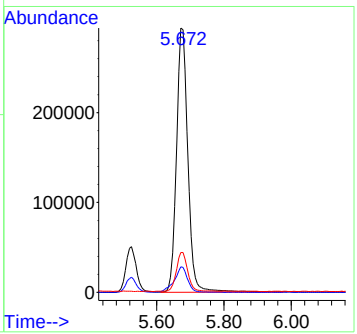


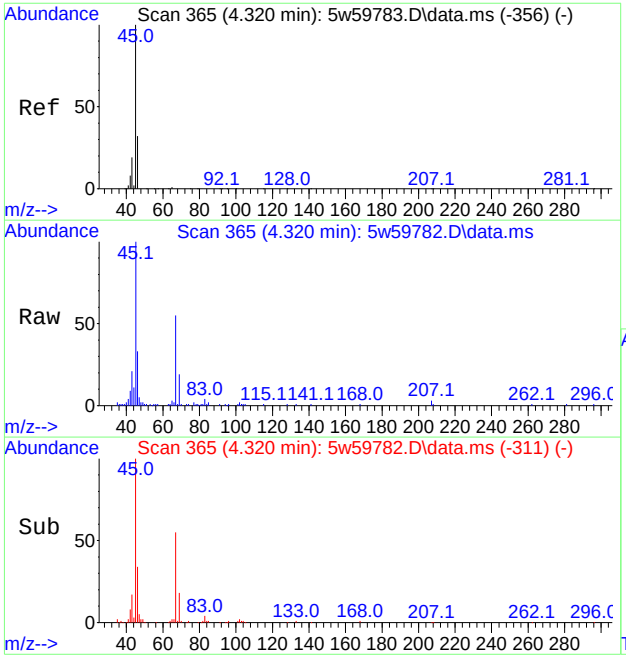


#27
CARBON DISULFIDE
Concen: 4.87 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 690855

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

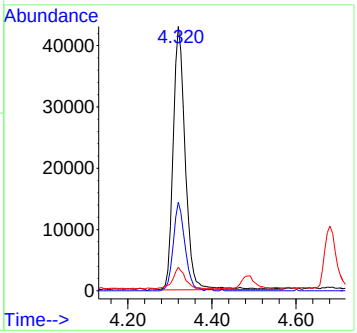


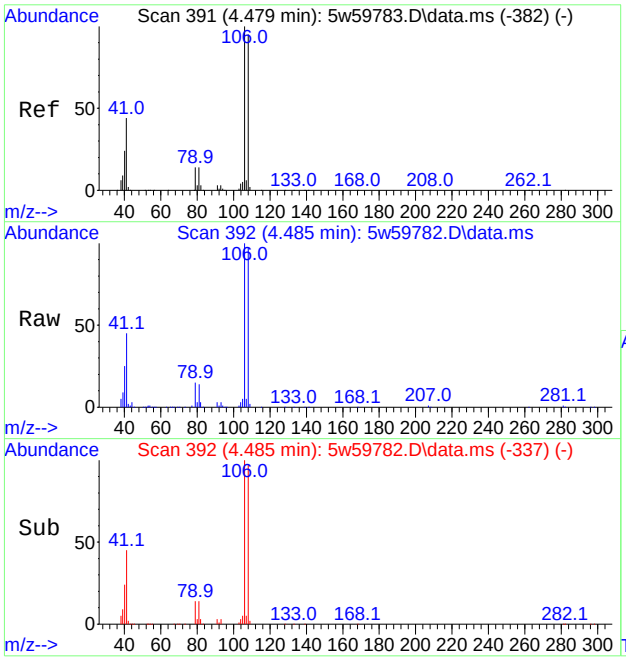


#28
ETHANOL
Concen: 4.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 86798

Ion	Ratio	Lower	Upper
45	100		
46	32.2	2.0	62.0
42	8.5	0.0	38.5

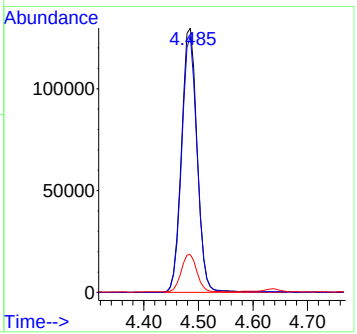


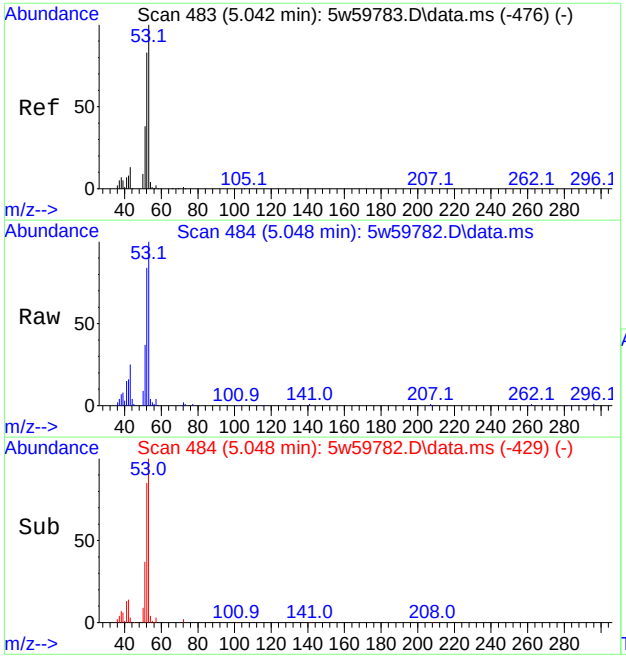


#29
BROMOETHENE
Concen: 5.39 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 258283

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	14.5	0.0	43.9

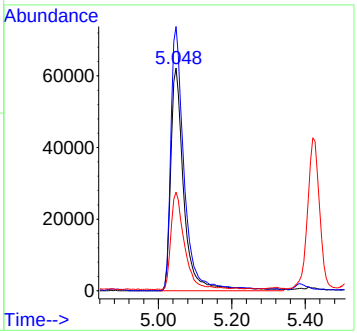


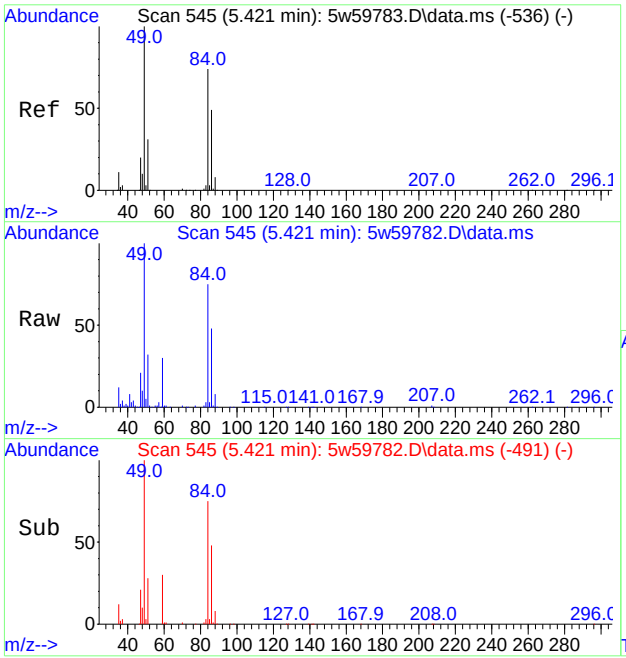


#30
ACRYLONITRILE
Concen: 4.59 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 155799

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.6	32.3	60.1

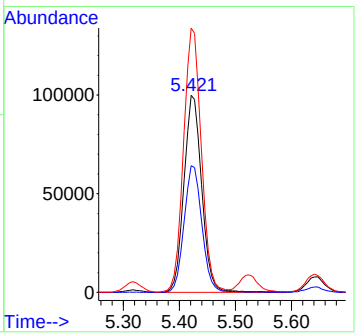


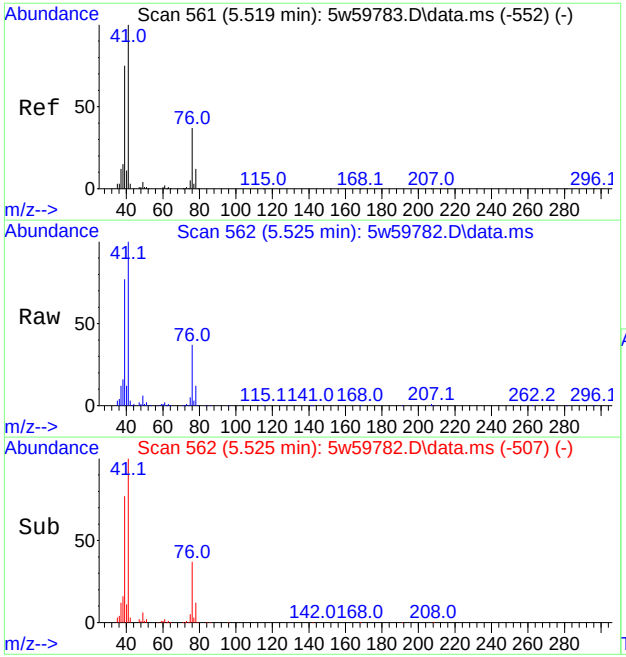


#31
METHYLENE CHLORIDE
Concen: 4.55 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 220204

Ion	Ratio	Lower	Upper
84	100		
86	64.5	35.2	95.2
49	134.2	105.3	165.3

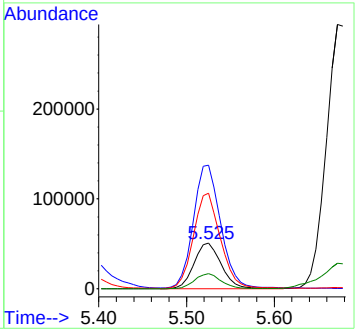


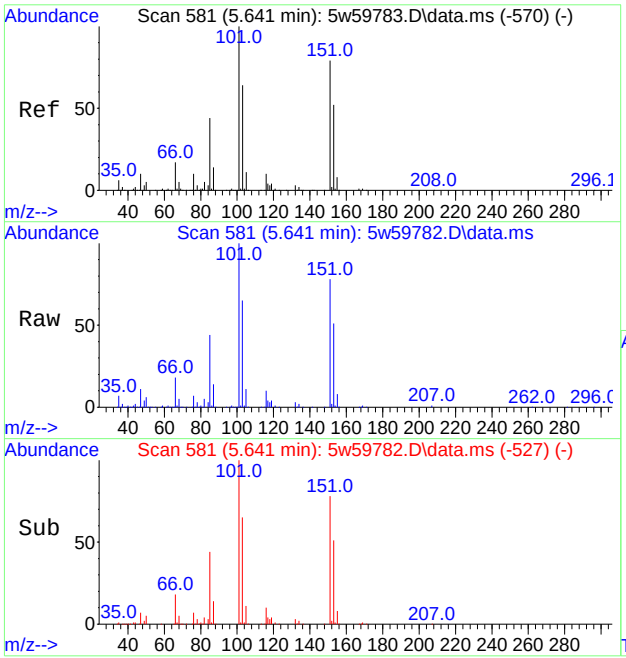


#32
3-CHLOROPROPENE
Concen: 4.99 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 110268

Ion	Ratio	Lower	Upper
76	100		
41	271.1	240.8	300.8
39	207.1	173.6	233.6
78	32.9	2.8	62.8

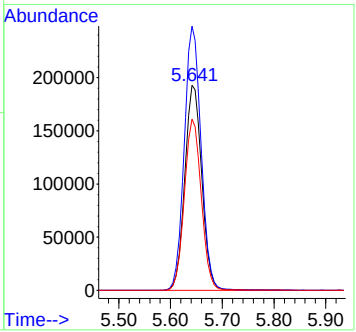


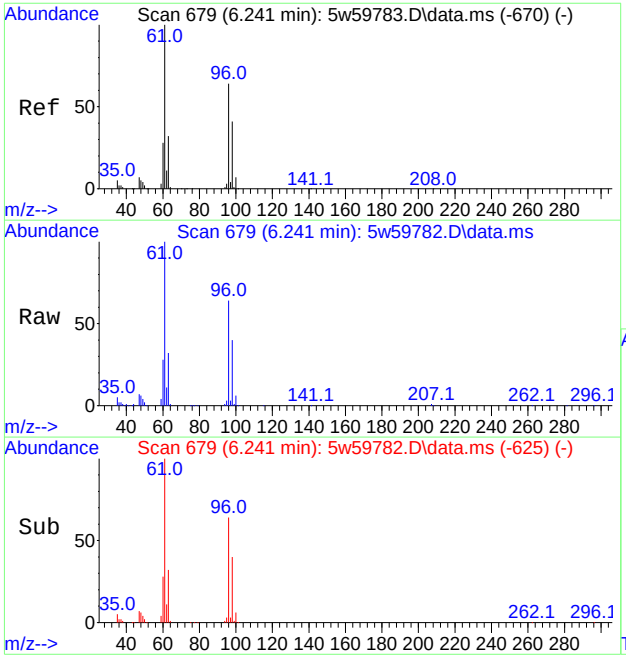


#33
FREON 113
Concen: 4.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:151 Resp: 441351

Ion	Ratio	Lower	Upper
151	100		
101	127.4	97.5	157.5
103	83.0	52.5	112.5

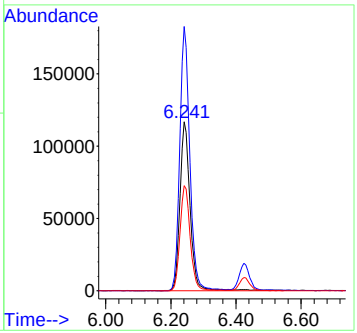


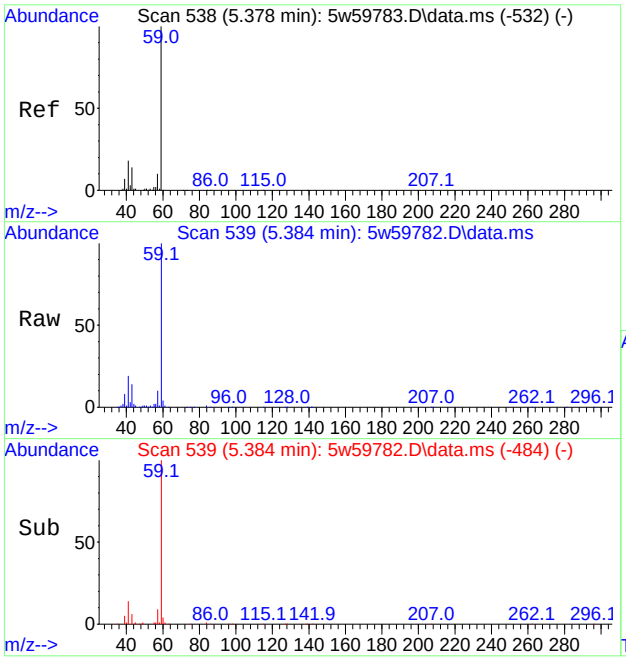


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 4.68 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 257488

Ion	Ratio	Lower	Upper
96	100		
61	152.8	126.4	186.4
98	62.3	34.1	94.1

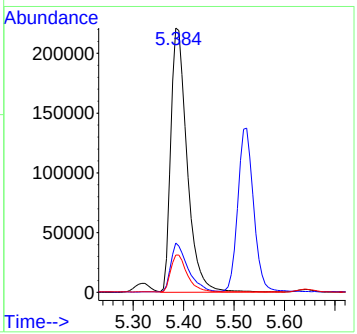


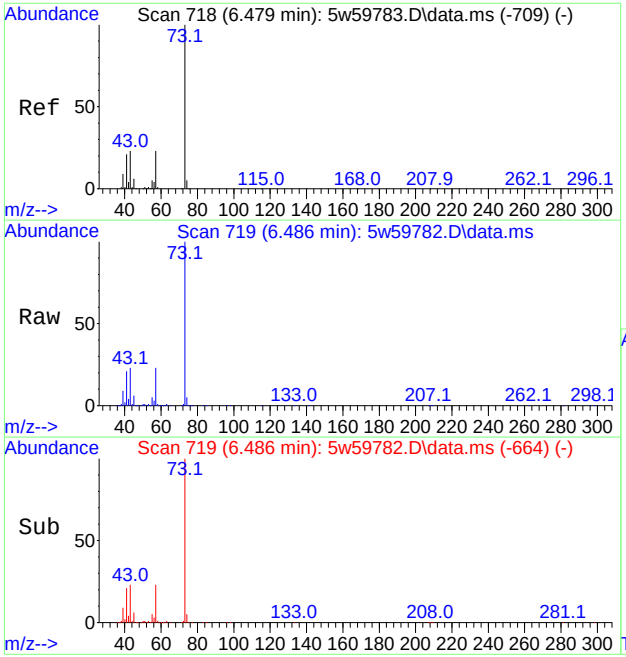


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.44 PPBV
RT: 5.384 min Scan# 539
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 498869

Ion	Ratio	Lower	Upper
59	100		
41	19.5	0.0	49.3
43	14.1	0.0	44.1

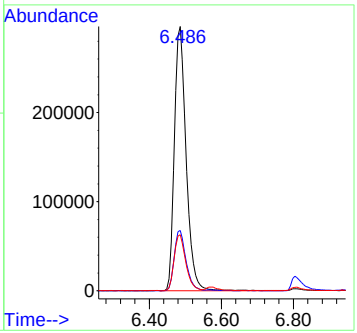


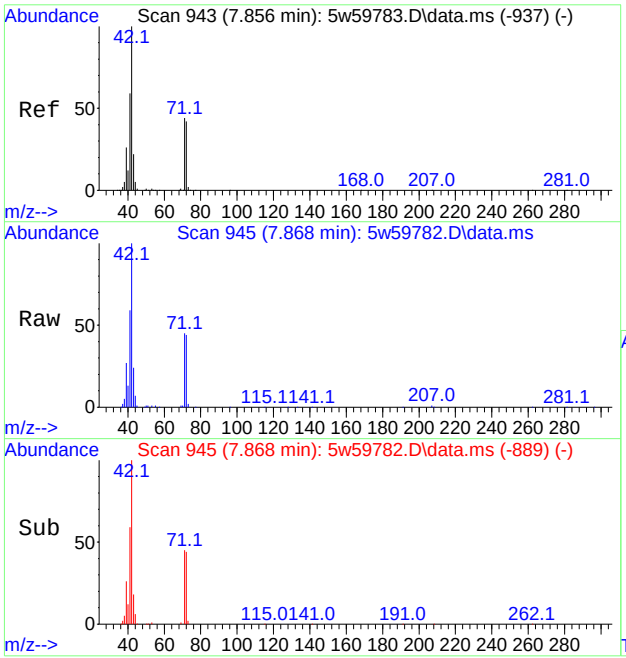


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.04 PPBV
RT: 6.486 min Scan# 719
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 73 Resp: 676684

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.9	0.0	50.6

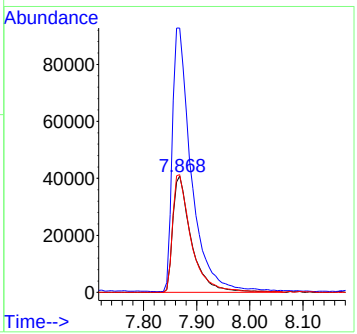


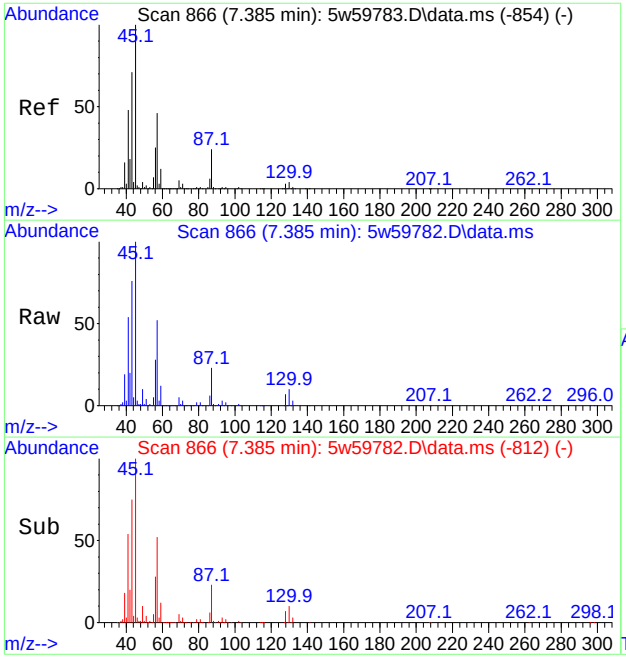


#37
TETRAHYDROFURAN
Concen: 5.53 PPBV
RT: 7.868 min Scan# 945
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 99619

Ion	Ratio	Lower	Upper
72	100		
42	231.9	202.4	262.4
71	101.4	71.1	131.1

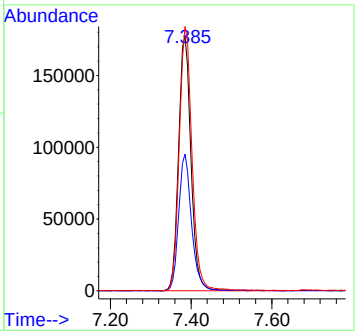


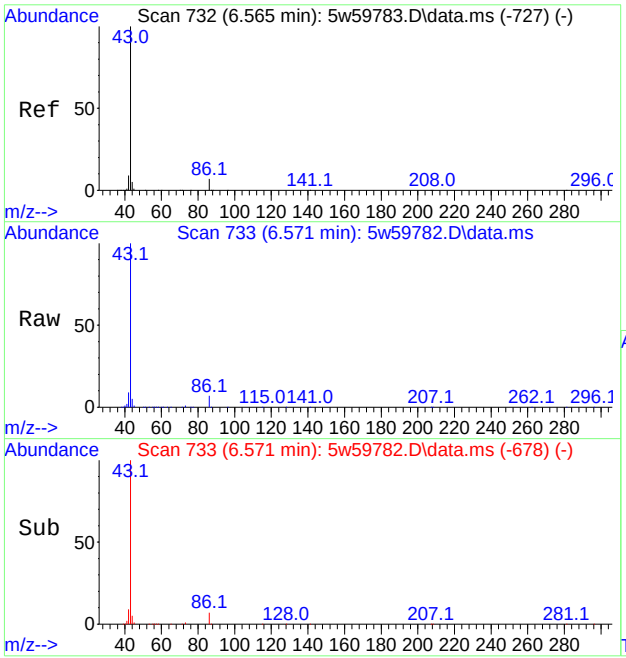


#38
HEXANE
Concen: 5.02 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 379941

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	106.7	74.7	134.7

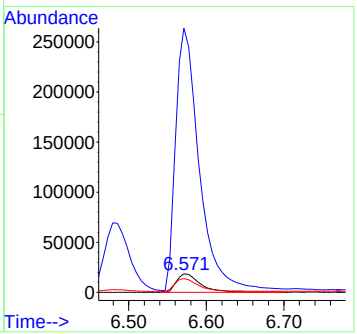


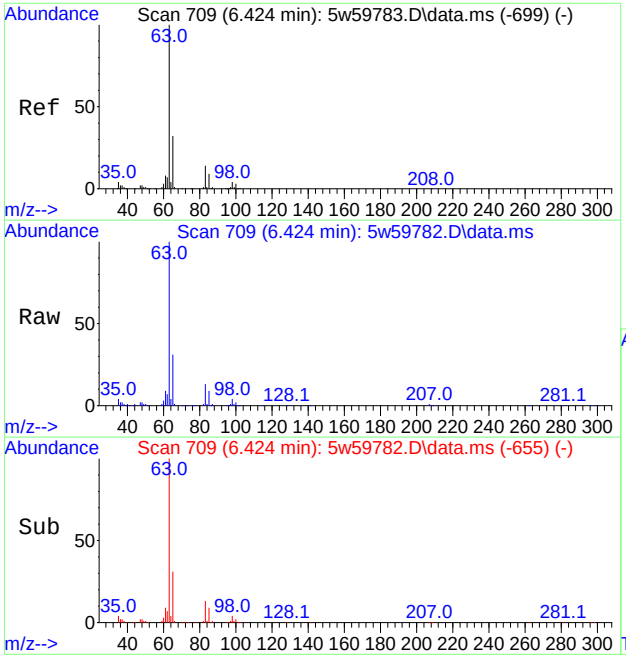


#39
VINYL ACETATE
Concen: 4.63 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 86 Resp: 40455

Ion	Ratio	Lower	Upper
86	100		
43	1388.3	1379.7	1439.7
44	68.5	36.9	96.9

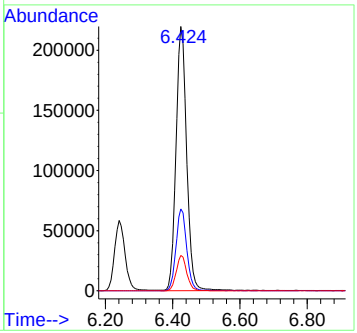


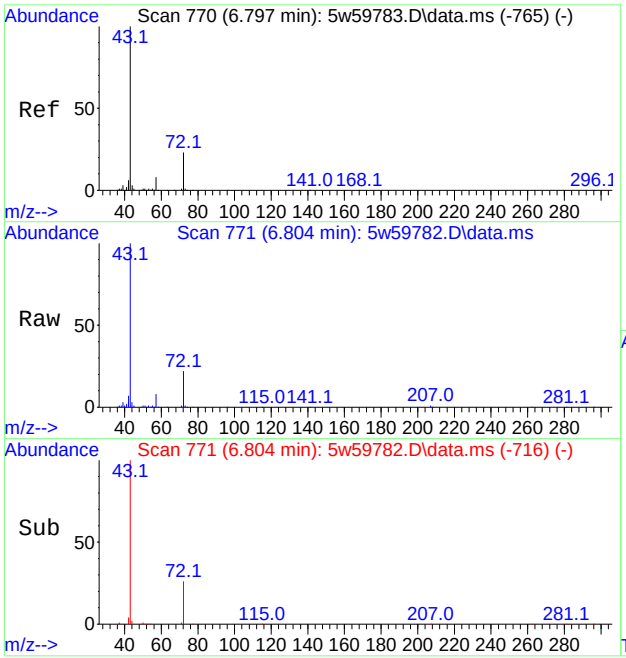


#40
1,1-DICHLOROETHANE
Concen: 4.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 482232

Ion	Ratio	Lower	Upper
63	100		
65	31.3	1.7	61.7
83	13.2	0.0	43.5

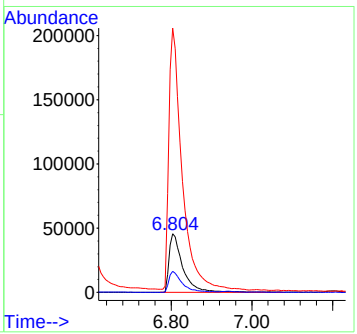


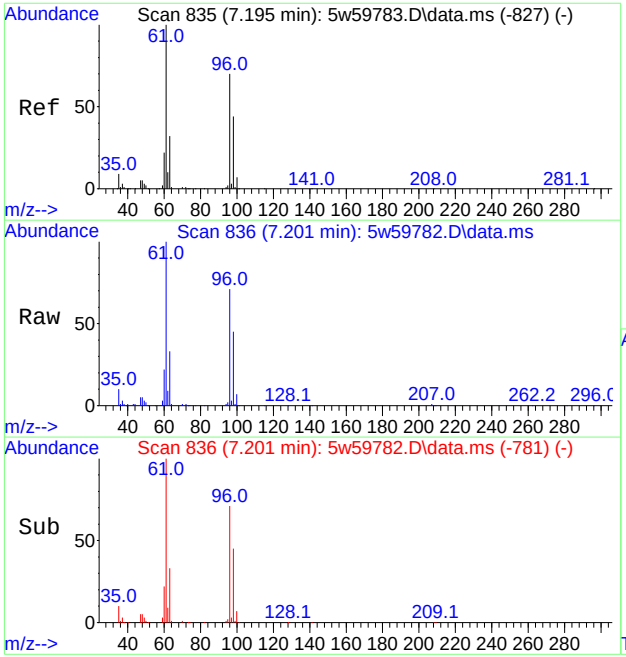


#41
METHYL ETHYL KETONE
Concen: 5.80 PPBV
RT: 6.804 min Scan# 771
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 108805

Ion	Ratio	Lower	Upper
72	100		
57	35.8	4.8	64.8
43	450.4	415.9	475.9

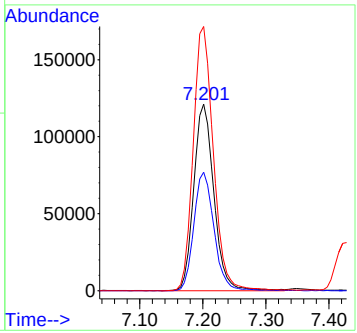


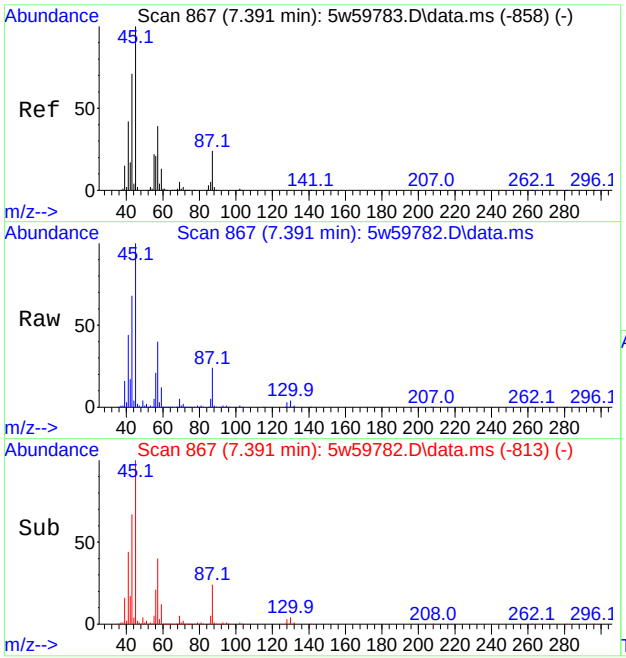


#42
cis-1,2-DICHLOROETHYLENE
Concen: 4.74 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 269410

Ion	Ratio	Lower	Upper
96	100		
98	63.6	34.0	94.0
61	142.1	111.5	171.5

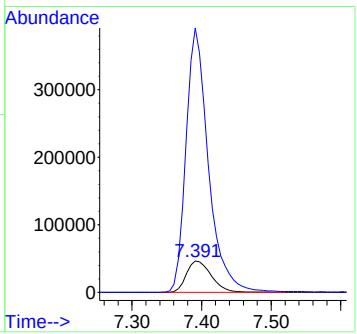


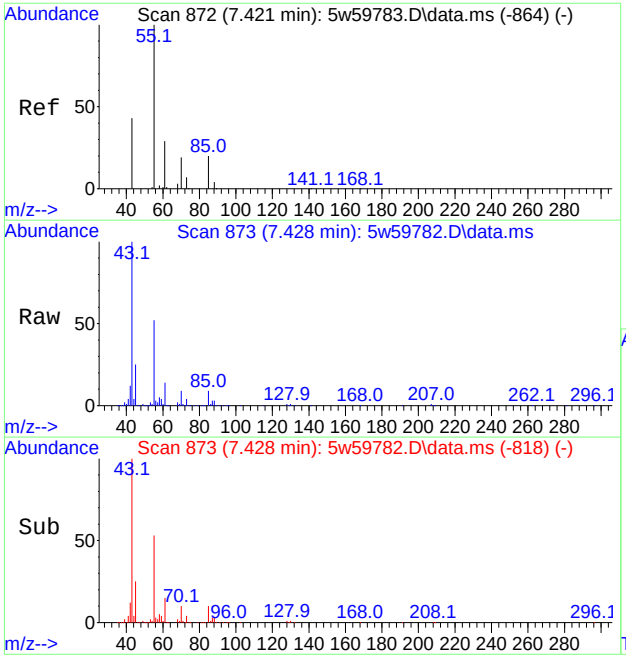


#43
DIISOPROPYL ETHER
Concen: 5.65 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 116383

Ion	Ratio	Lower	Upper
59	100		
45	760.3	720.9	780.9

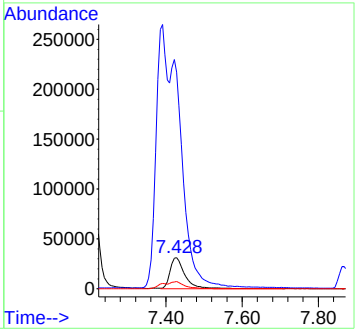


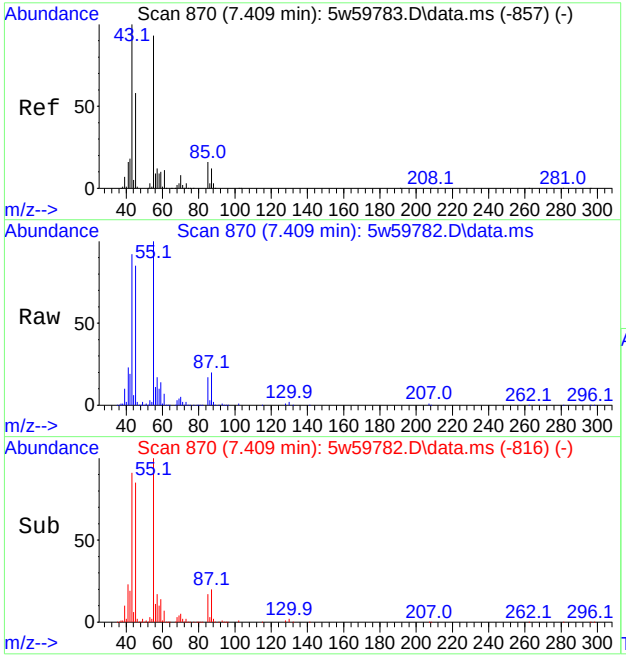


#44
ETHYL ACETATE
Concen: 5.60 PPBV m
RT: 7.428 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 61 Resp: 87258

Ion	Ratio	Lower	Upper
61	100		
43	636.4	560.5	620.5#
88	32.9	4.5	64.5

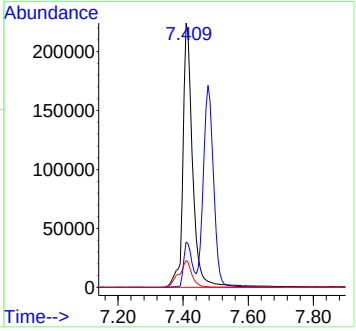


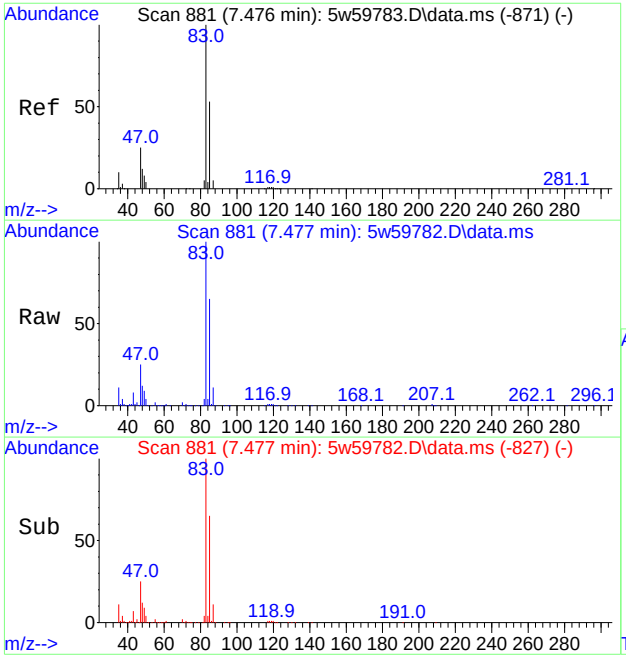


#45
METHYL ACRYLATE
Concen: 5.35 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 471994

Ion	Ratio	Lower	Upper
55	100		
85	15.0	10.9	20.3
58	13.3	9.4	17.6

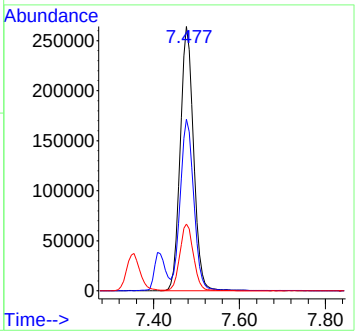


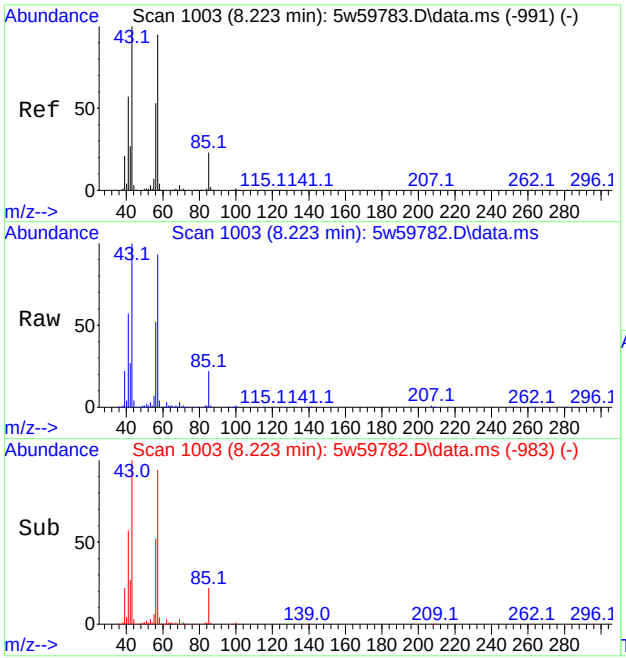


#46
CHLOROFORM
Concen: 4.95 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 570969

Ion	Ratio	Lower	Upper
83	100		
85	66.4	35.6	95.6
47	25.9	0.0	55.2

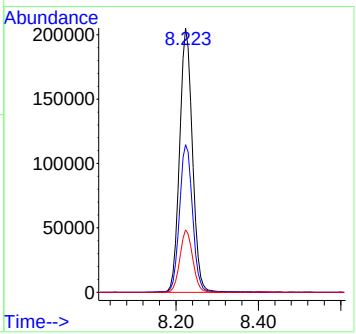


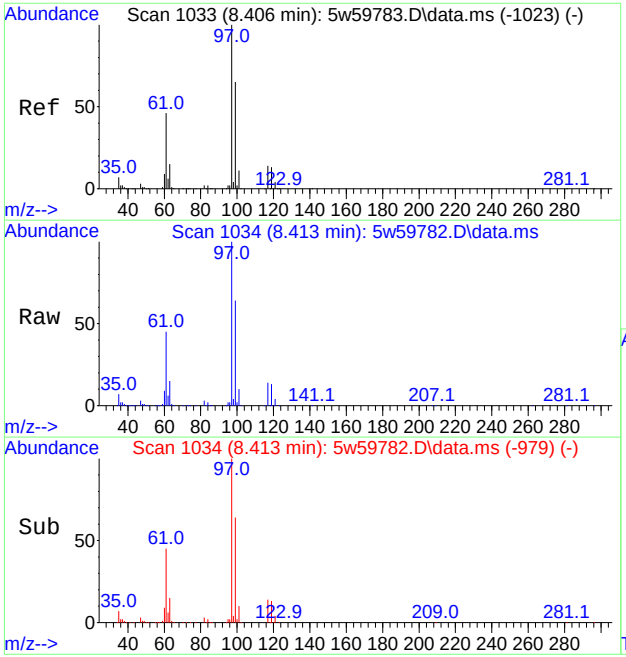


#47
2,4-DIMETHYLPENTANE
Concen: 5.08 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 444023

Ion	Ratio	Lower	Upper
57	100		
56	57.0	26.5	86.5
85	23.7	0.0	53.8

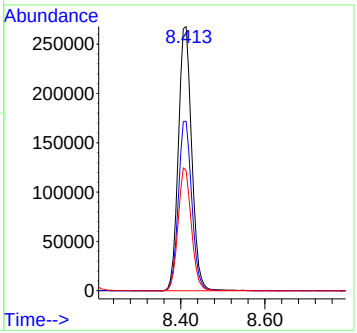


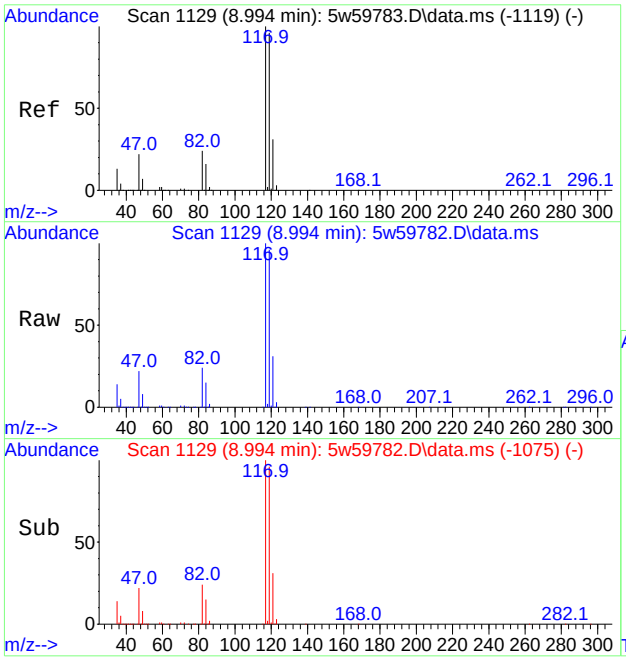


#48
1,1,1-TRICHLOROETHANE
Concen: 4.75 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 97 Resp: 592452

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.8	94.8
61	46.2	15.8	75.8

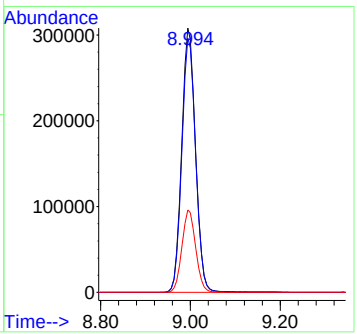


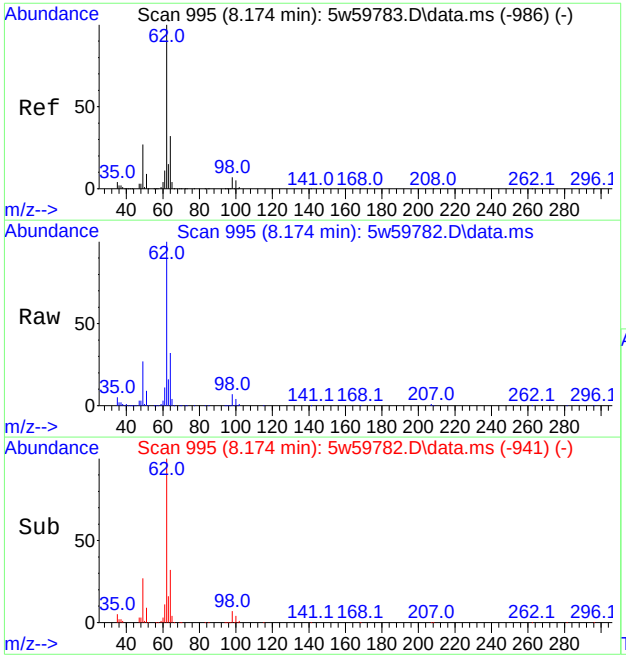


#49
CARBON TETRACHLORIDE
Concen: 4.82 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 658939

Ion	Ratio	Lower	Upper
117	100		
119	96.4	66.9	126.9
121	31.1	1.3	61.3

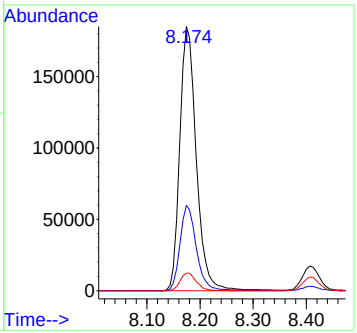


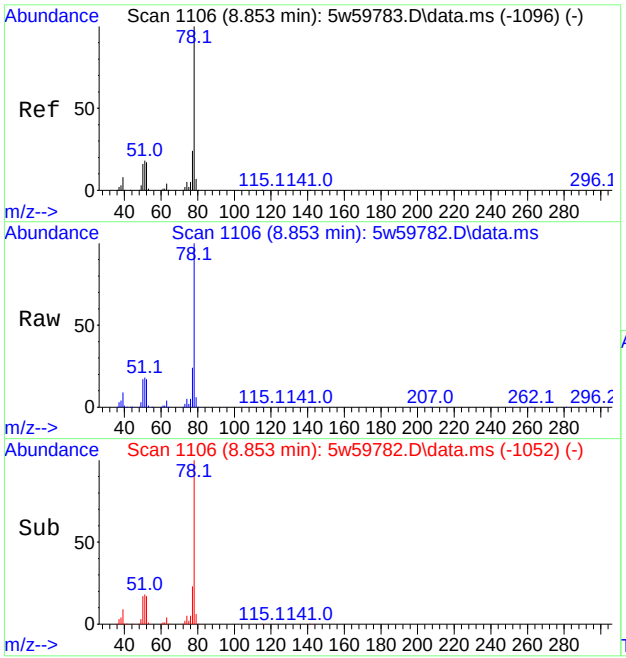


#50
1,2-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 401494

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.7	0.0	36.9

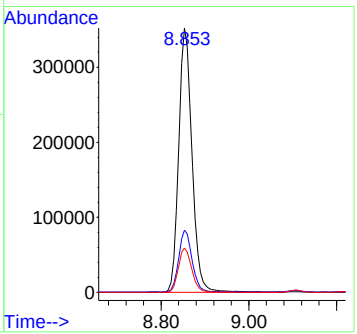


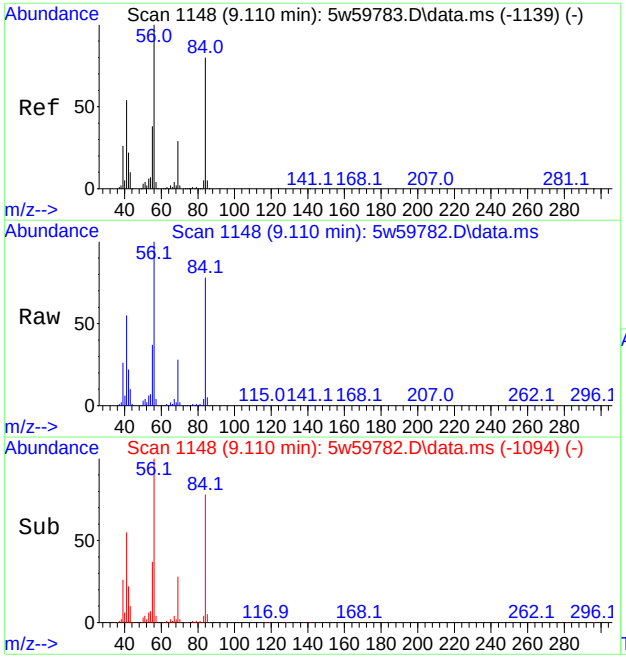


#52
BENZENE
Concen: 5.39 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 78 Resp: 741517

Ion	Ratio	Lower	Upper
78	100		
77	23.5	0.0	53.8
52	16.9	0.0	46.9

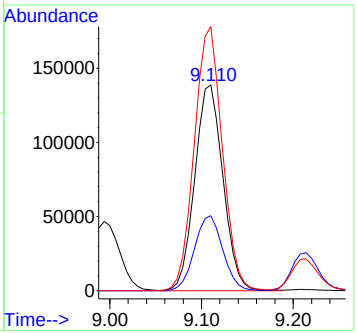


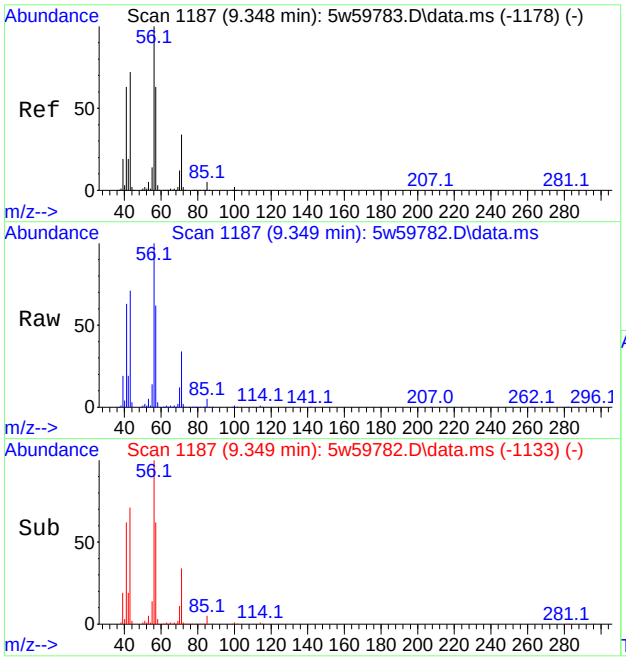


#53
CYCLOHEXANE
Concen: 5.48 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 297316

Ion	Ratio	Lower	Upper
84	100		
69	36.6	6.9	66.9
56	127.4	98.2	158.2

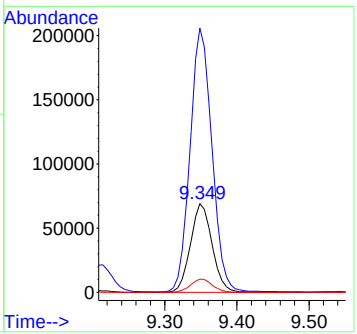


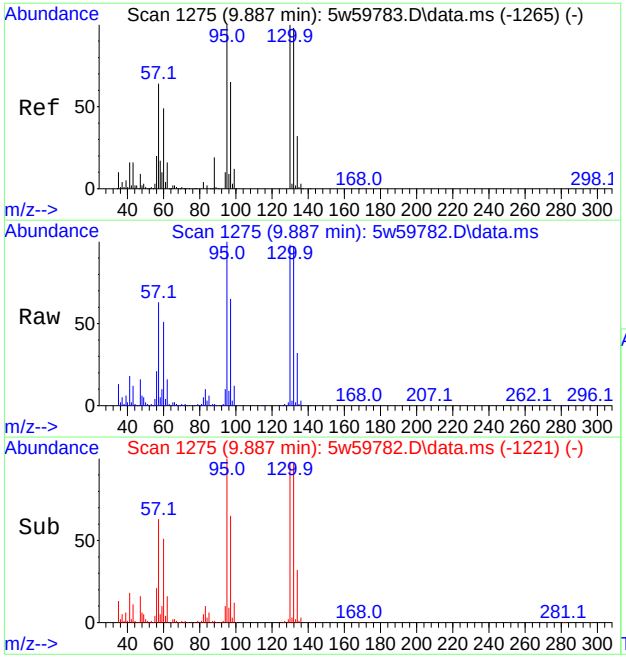


#54
2,3-DIMETHYLPENTANE
Concen: 5.25 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 71 Resp: 144492

Ion	Ratio	Lower	Upper
71	100		
56	300.3	264.6	324.6
85	15.2	0.0	45.3

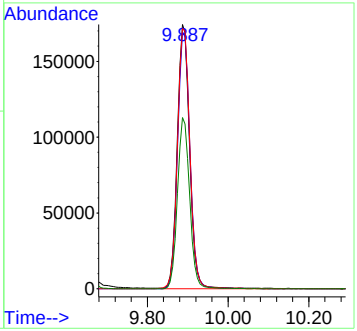


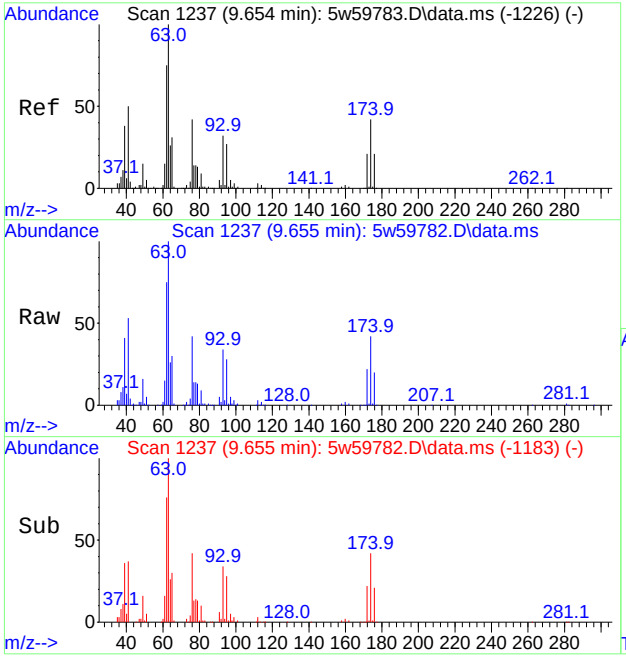


#55
TRICHLOROETHYLENE
Concen: 5.01 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 95 Resp: 369372

Ion	Ratio	Lower	Upper
95	100		
132	97.7	69.0	129.0
130	99.7	70.6	130.6
97	63.9	34.6	94.6

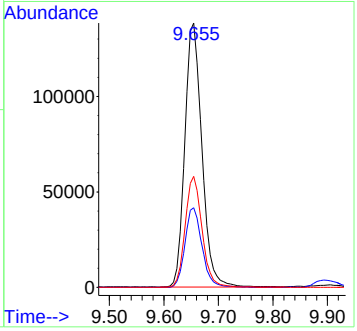


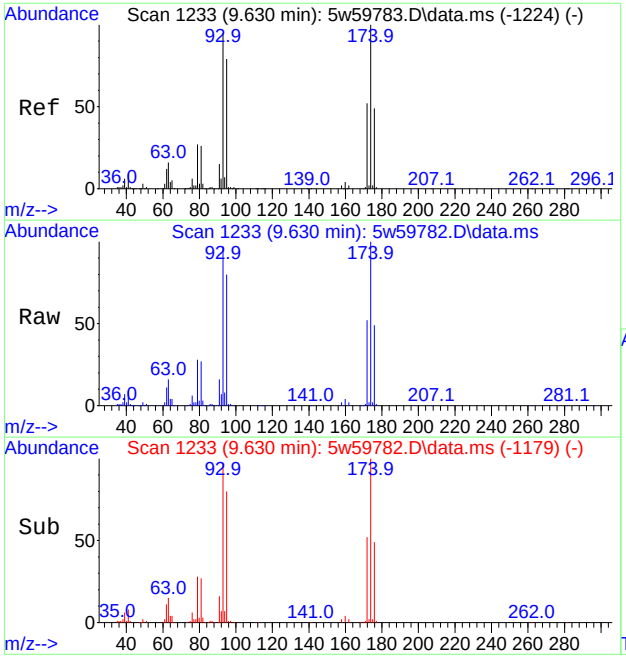


#56
1,2-DICHLOROPROPANE
Concen: 5.12 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 300591

Ion	Ratio	Lower	Upper
63	100		
65	30.0	0.5	60.5
76	41.6	11.5	71.5

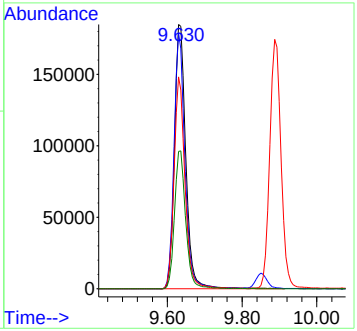


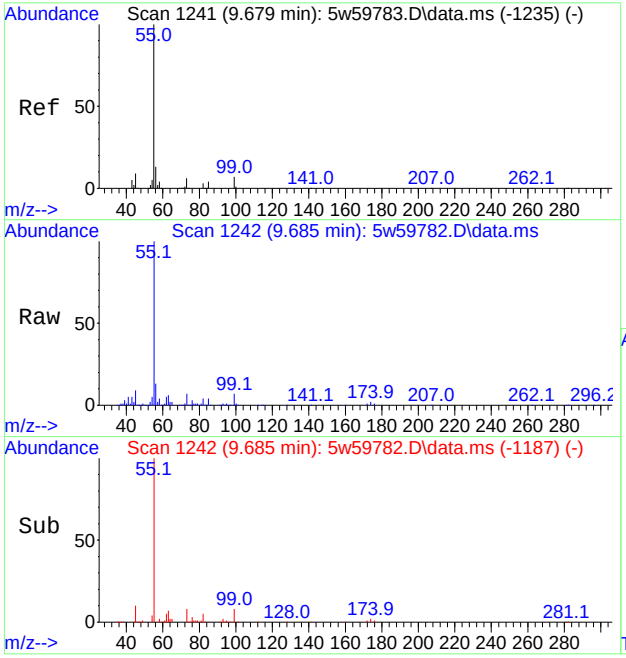


#57
DIBROMOMETHANE
Concen: 4.83 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:174 Resp: 391164

Ion	Ratio	Lower	Upper
174	100		
93	94.0	65.0	120.6
95	78.2	54.5	101.1
172	51.8	36.3	67.5

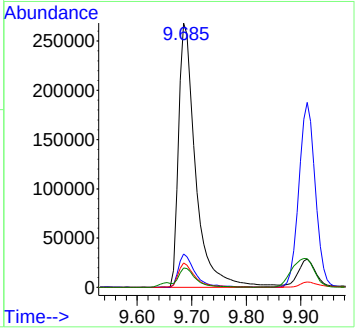


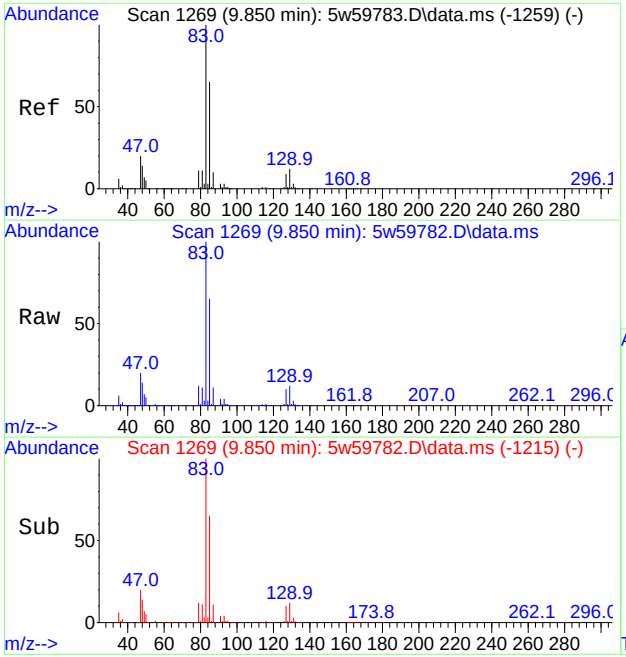


#58
ETHYL ACRYLATE
Concen: 5.68 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 582502

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.5	6.6	12.2
99	8.8	6.4	12.0

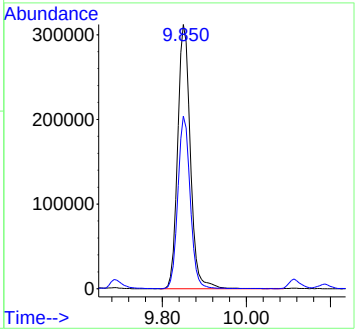


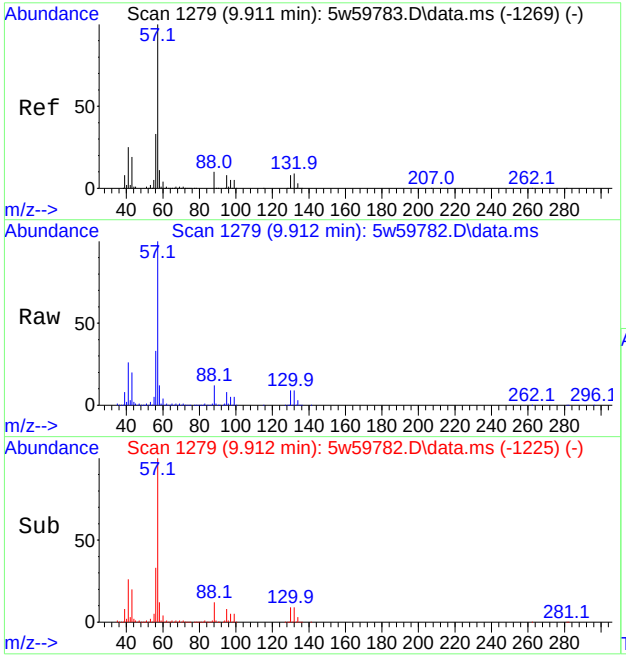


#59
BROMODICHLOROMETHANE
Concen: 5.05 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 653402

Ion	Ratio	Lower	Upper
83	100		
85	63.8	33.4	93.4

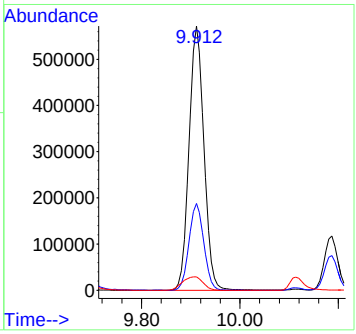


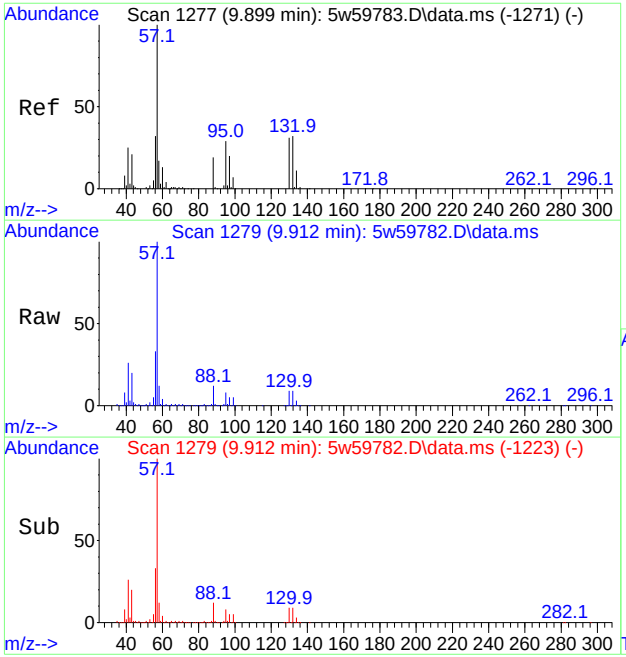


#60
2,2,4-TRIMETHYLPENTANE
Concen: 5.26 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 1206122

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.2	0.0	37.3

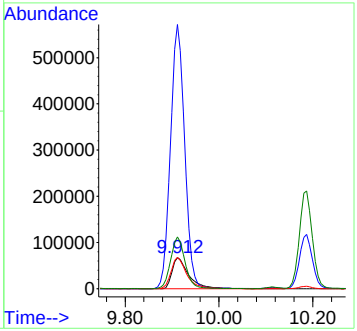


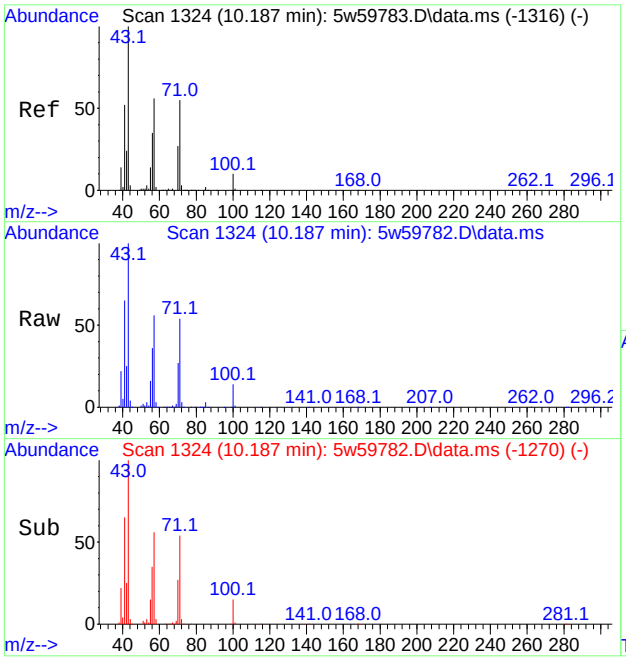


#61
1,4-DIOXANE
Concen: 5.89 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 88 Resp: 168473

Ion	Ratio	Lower	Upper
88	100		
57	845.3	494.2	554.2#
58	100.5	58.9	118.9
43	165.6	78.3	138.3#

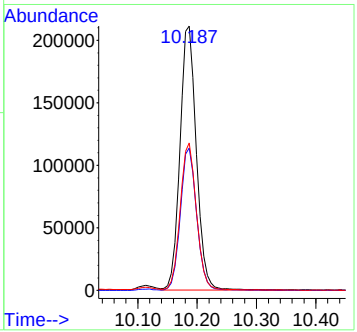


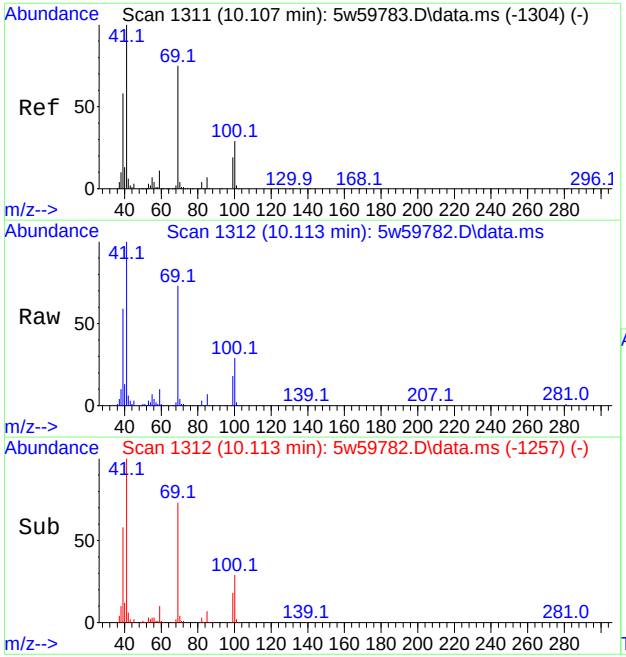


#62
HEPTANE
Concen: 4.93 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 406924

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.4	26.2	86.2

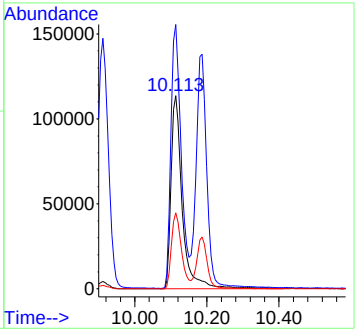


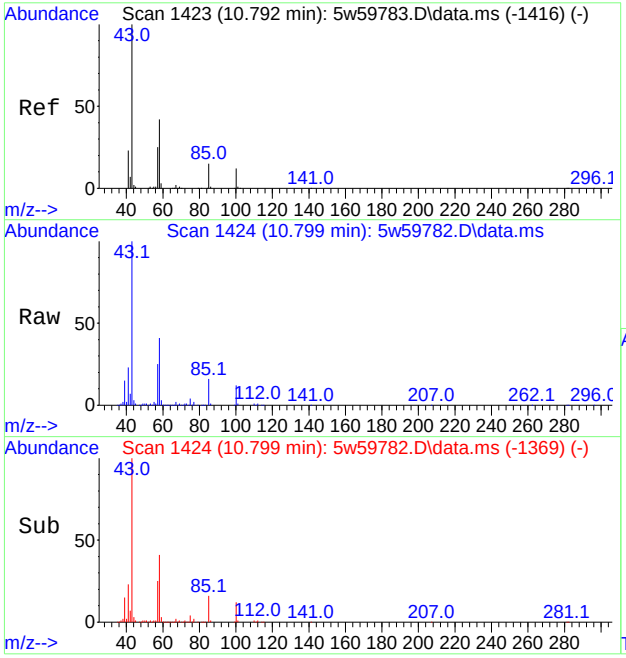


#63
METHYL METHACRYLATE
Concen: 5.84 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 247000

Ion	Ratio	Lower	Upper
69	100		
41	122.1	95.3	155.3
100	35.3	6.3	66.3

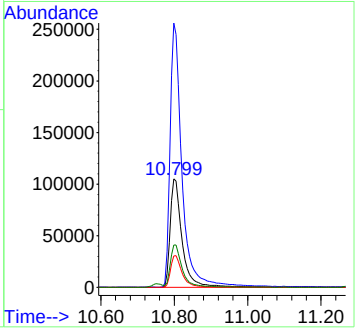


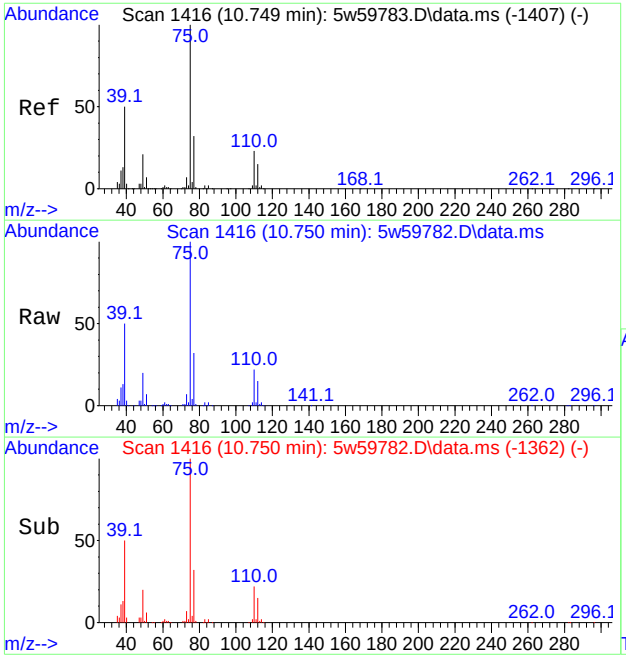


#64
METHYL ISOBUTYL KETONE
Concen: 5.60 PPBV
RT: 10.799 min Scan# 1424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 240795

Ion	Ratio	Lower	Upper
58	100		
43	242.6	209.2	269.2
100	29.0	0.0	58.8
85	39.9	9.4	69.4

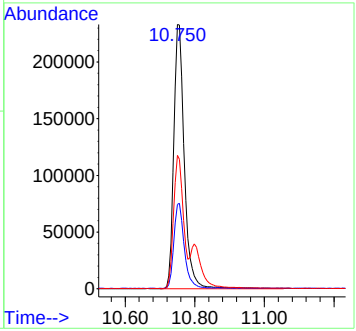


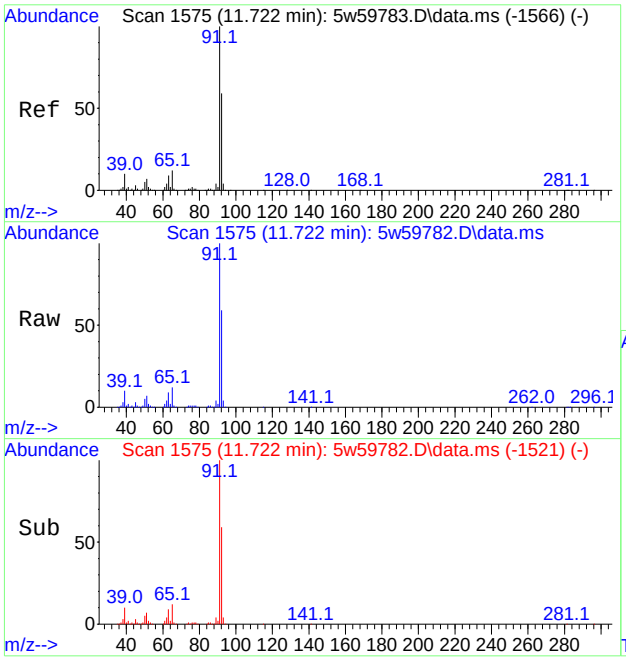


#65
cis-1,3-DICHLOROPROPENE
Concen: 5.47 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 494703

Ion	Ratio	Lower	Upper
75	100		
77	31.7	2.2	62.2
39	48.4	34.3	94.3

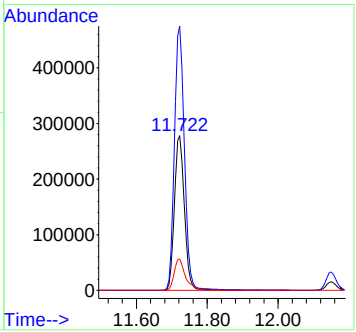


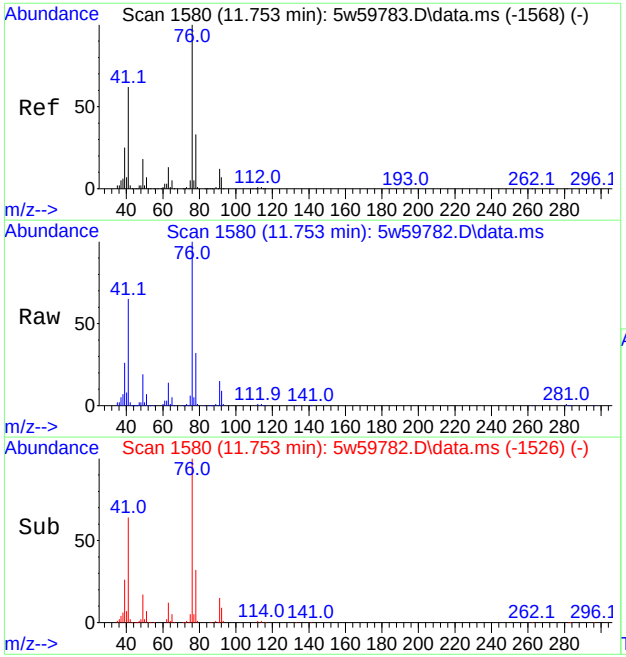


#66
TOLUENE
Concen: 5.55 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 92 Resp: 547474

Ion	Ratio	Lower	Upper
92	100		
91	170.9	140.1	200.1
65	23.1	0.0	53.1

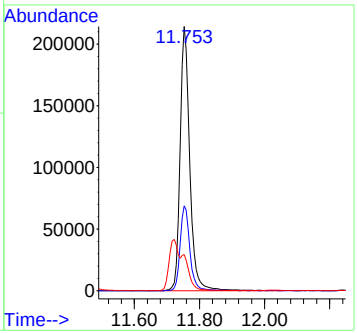


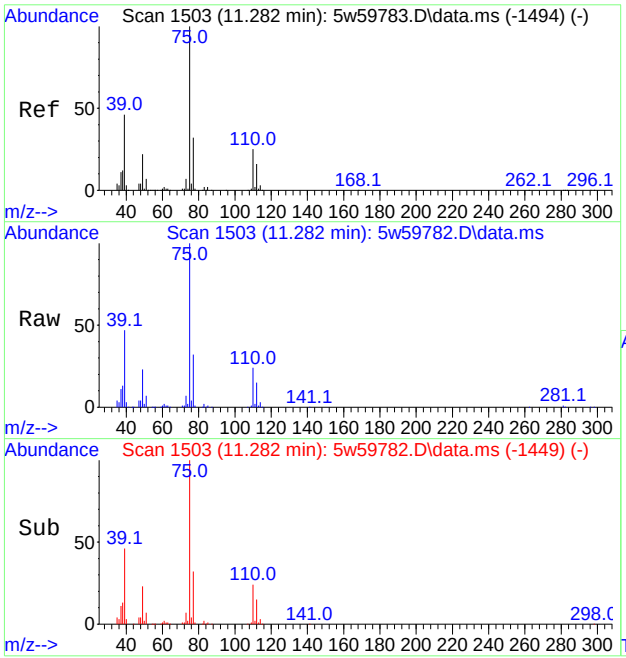


#67
1,3-DICHLOROPROPANE
Concen: 5.43 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 446082

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	11.2	7.1	13.1

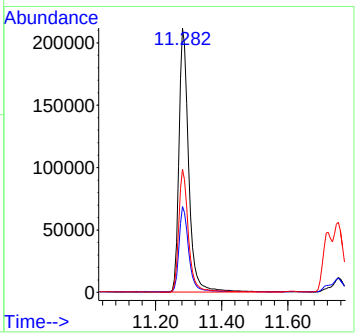


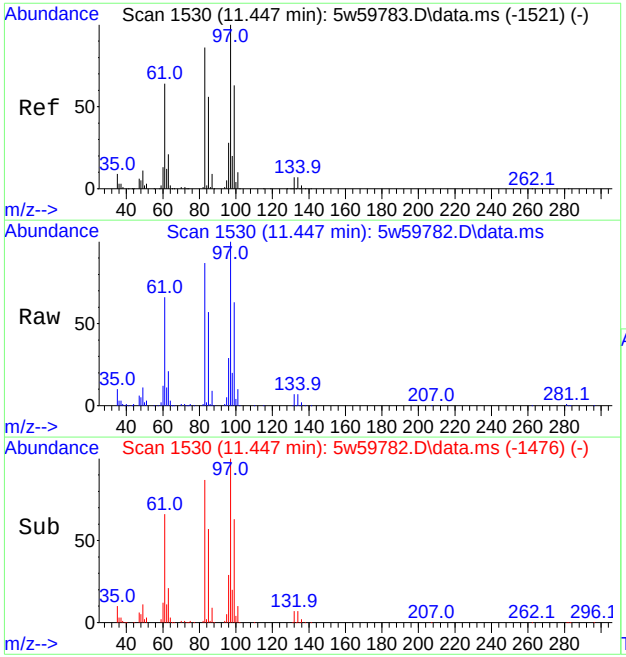


#68
trans-1,3-DICHLOROPROPENE
Concen: 5.29 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 434584

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	46.8	16.1	76.1

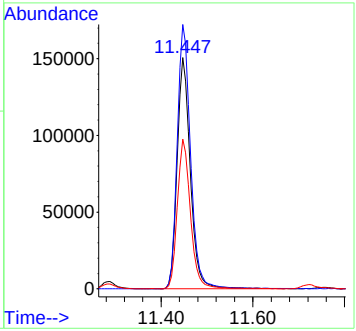


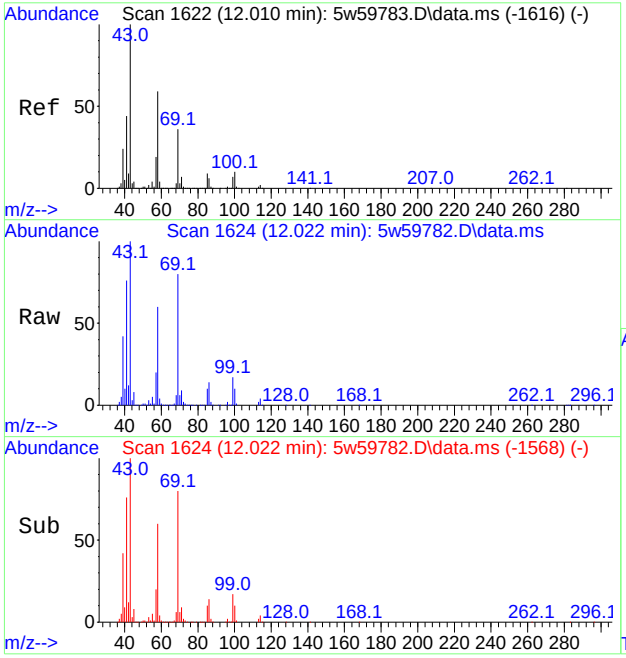


#69
1,1,2-TRICHLOROETHANE
Concen: 5.53 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 301561

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	64.7	35.3	95.3

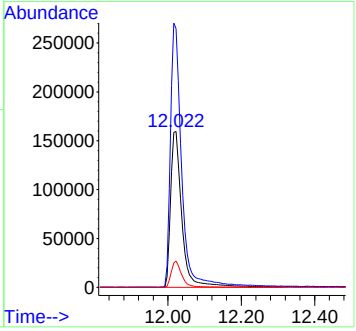


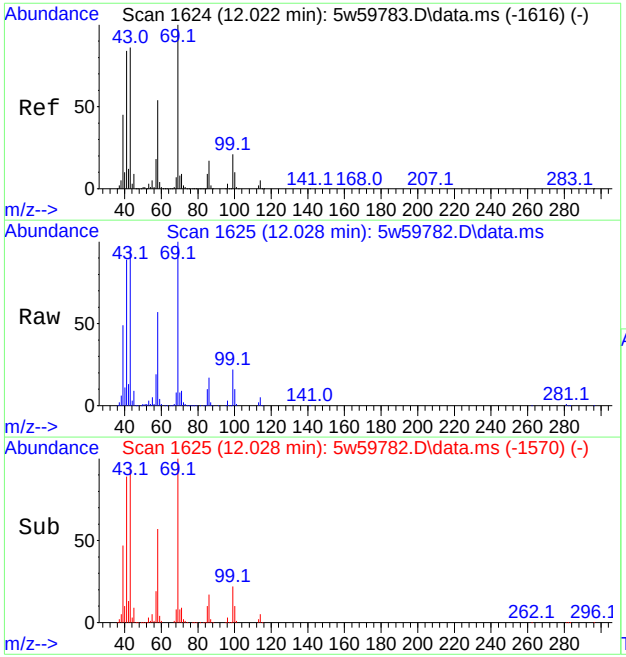


#71
2-HEXANONE
Concen: 6.43 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 344921

Ion	Ratio	Lower	Upper
58	100		
43	169.0	137.2	197.2
100	16.2	0.0	46.9

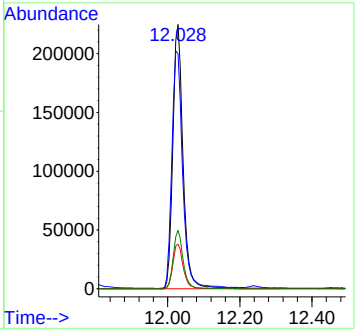


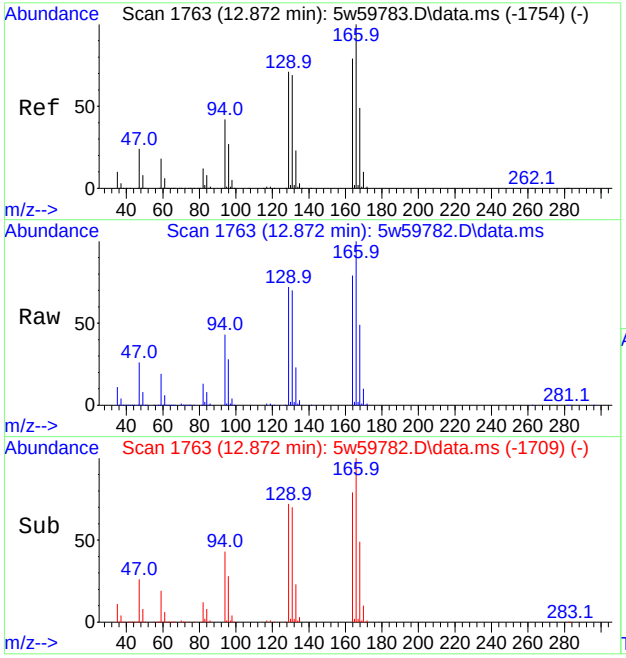


#72
ETHYL METHACRYLATE
Concen: 6.46 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 445397

Ion	Ratio	Lower	Upper
69	100		
41	94.9	64.0	119.0
86	16.9	12.0	22.4
99	21.6	15.0	27.8

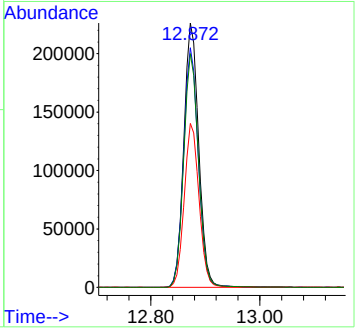


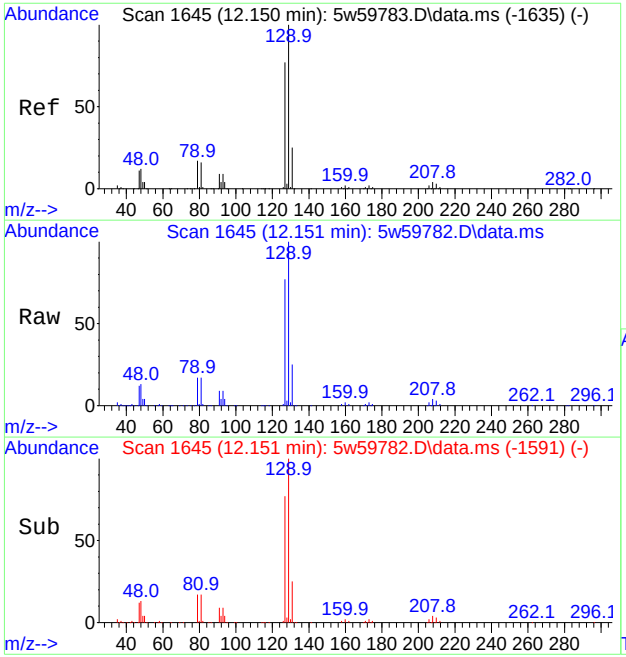


#73
TETRACHLOROETHYLENE
Concen: 5.33 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:164 Resp: 427336

Ion	Ratio	Lower	Upper
164	100		
129	90.2	59.7	119.7
168	62.2	32.2	92.2
131	88.1	57.8	117.8

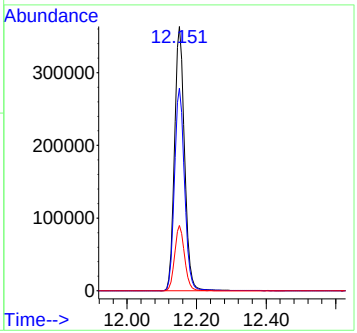


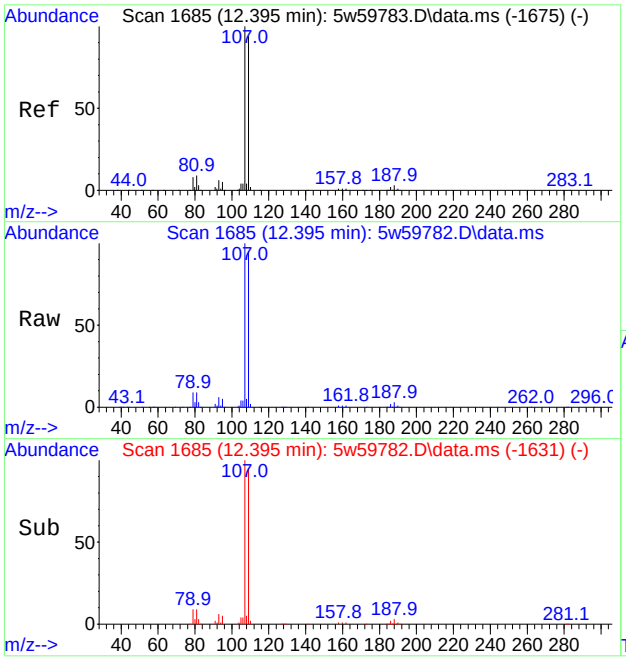


#74
DIBROMOCHLOROMETHANE
Concen: 5.41 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:129 Resp: 728217

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.5	0.0	54.5

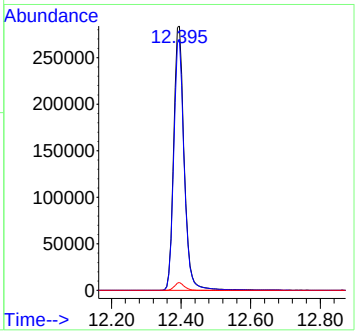


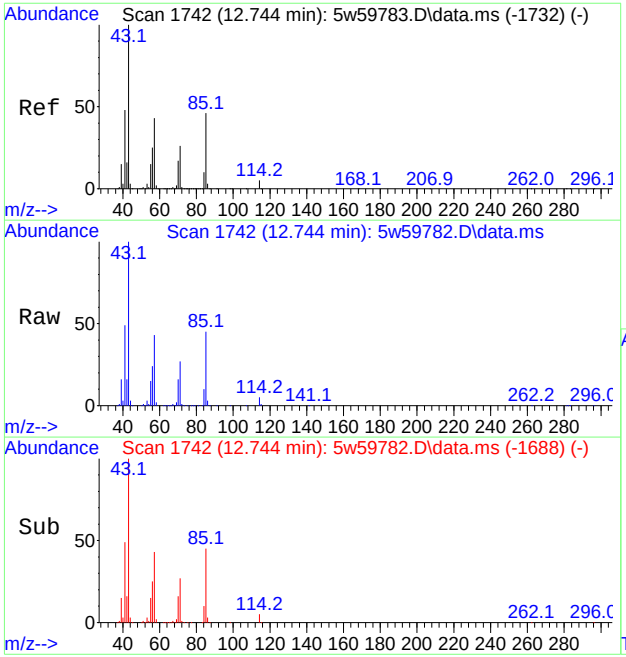


#75
1,2-DIBROMOETHANE
Concen: 5.98 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:107 Resp: 595110

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

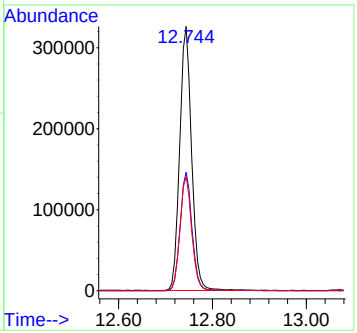


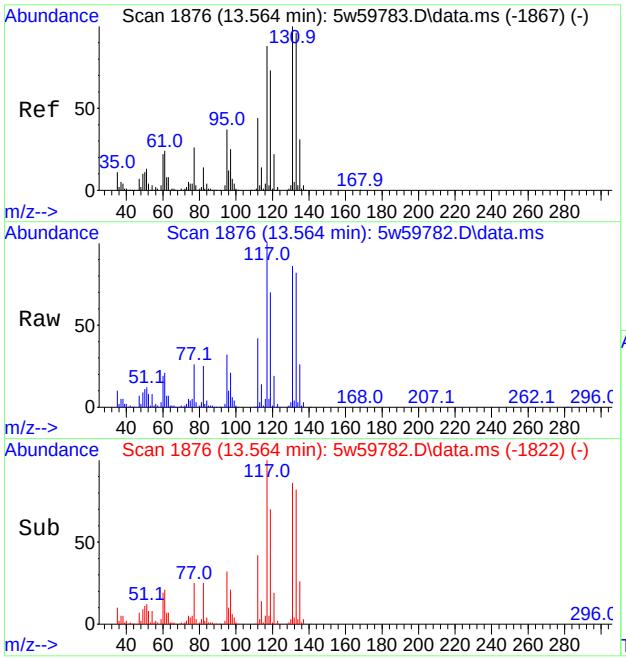


#76
OCTANE
Concen: 5.29 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 576898

Ion	Ratio	Lower	Upper
43	100		
85	44.8	14.6	74.6
57	43.5	13.7	73.7

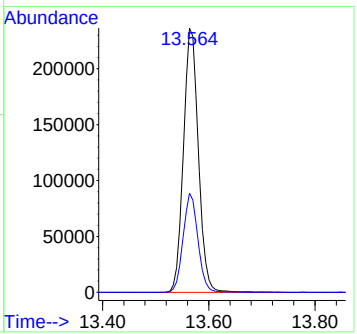


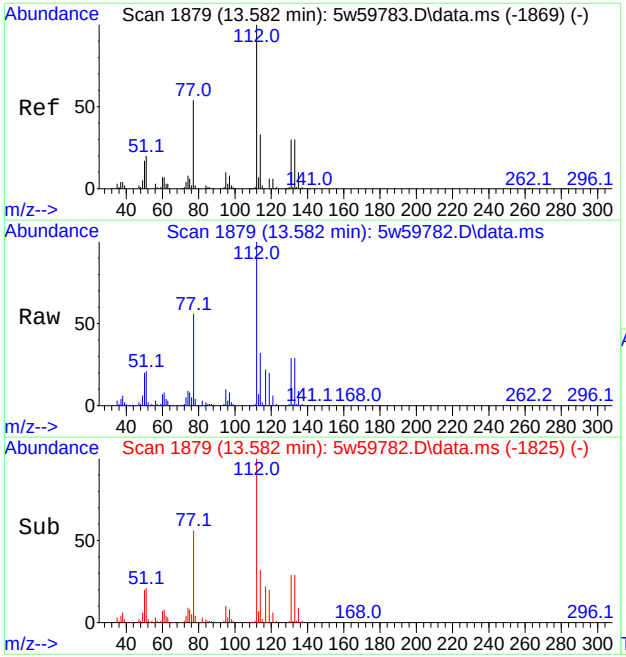


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.26 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:131 Resp: 463451

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

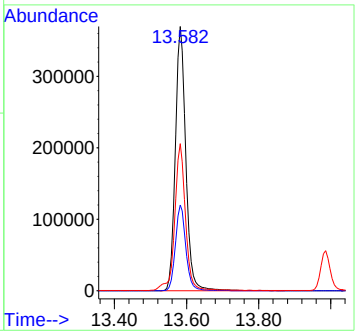


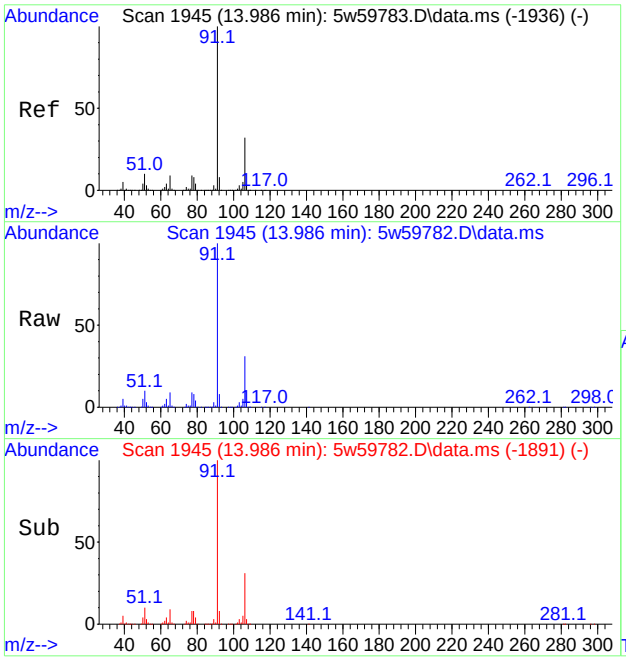


#78
CHLOROBENZENE
Concen: 5.17 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:112 Resp: 750075

Ion	Ratio	Lower	Upper
112	100		
114	32.5	2.6	62.6
77	57.4	25.4	85.4

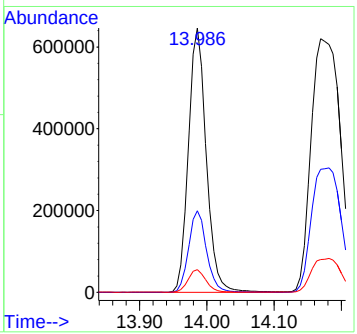


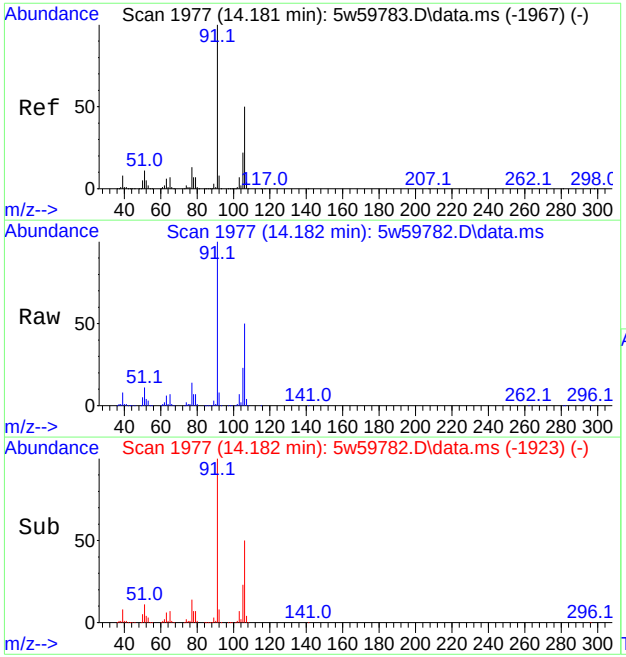


#79
ETHYLBENZENE
Concen: 5.80 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1198151

Ion	Ratio	Lower	Upper
91	100		
106	31.0	1.3	61.3
77	8.6	0.0	38.6

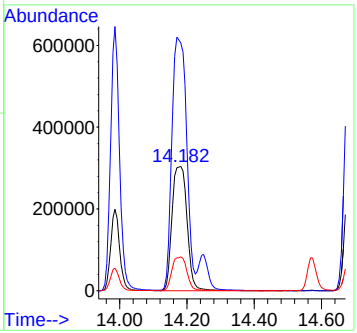


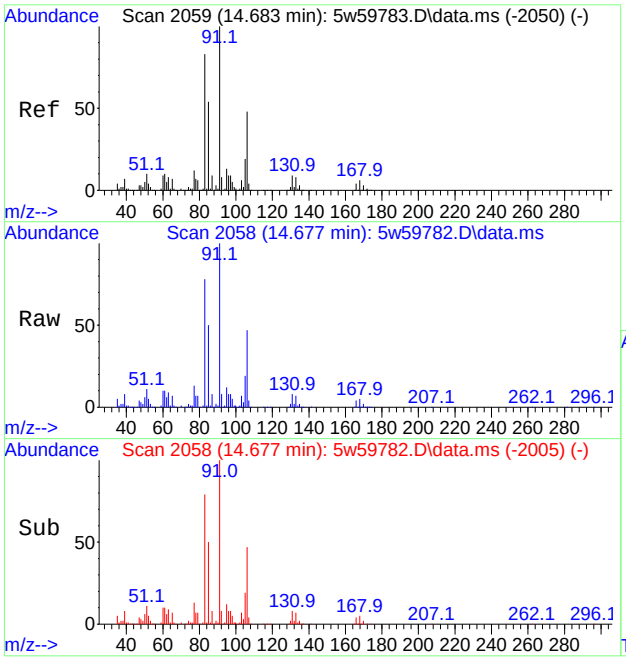


#80
m,p-XYLENE
Concen: 11.83 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 943241

Ion	Ratio	Lower	Upper
106	100		
91	199.4	171.0	231.0
77	27.3	0.0	56.7

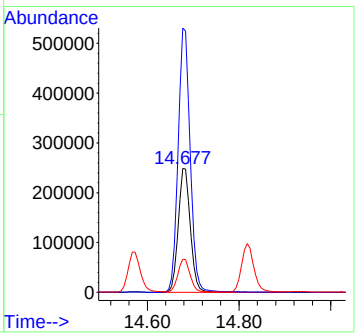


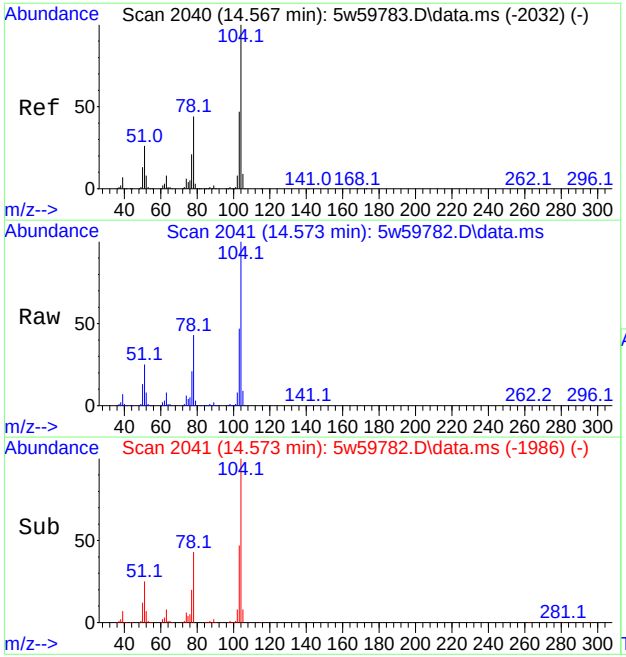


#81
o-XYLENE
Concen: 6.21 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 456348

Ion	Ratio	Lower	Upper
106	100		
91	212.0	181.6	241.6
77	27.1	0.0	56.6

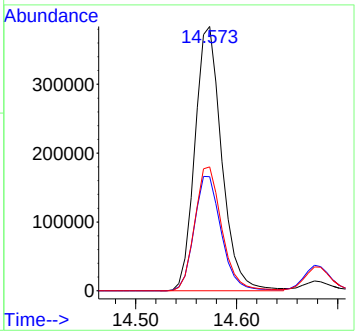


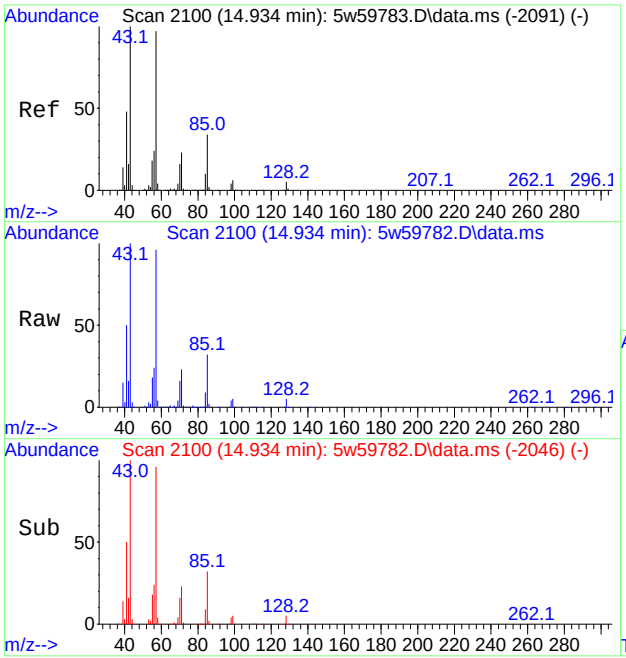


#82
STYRENE
Concen: 6.37 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:104 Resp: 711140

Ion	Ratio	Lower	Upper
104	100		
78	43.6	13.3	73.3
103	47.1	17.2	77.2

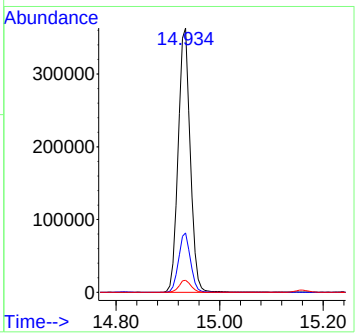


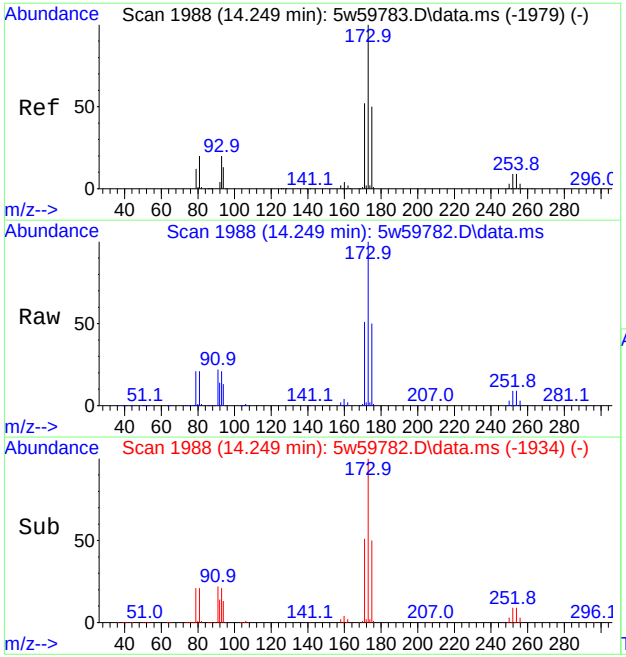


#83
NONANE
Concen: 5.44 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 586796

Ion	Ratio	Lower	Upper
43	100		
71	22.3	0.0	52.7
128	4.6	0.0	34.7

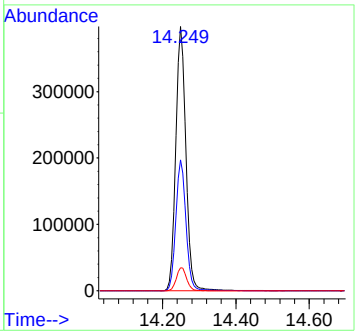


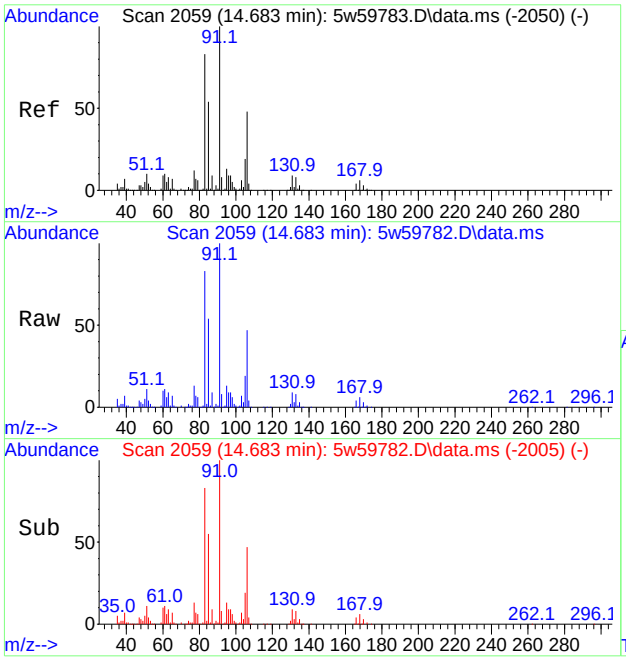


#84
BROMOFORM
Concen: 5.54 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:173 Resp: 765790

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	8.9	0.0	39.0

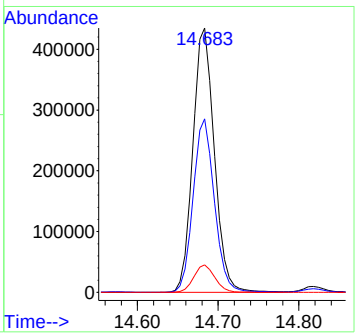


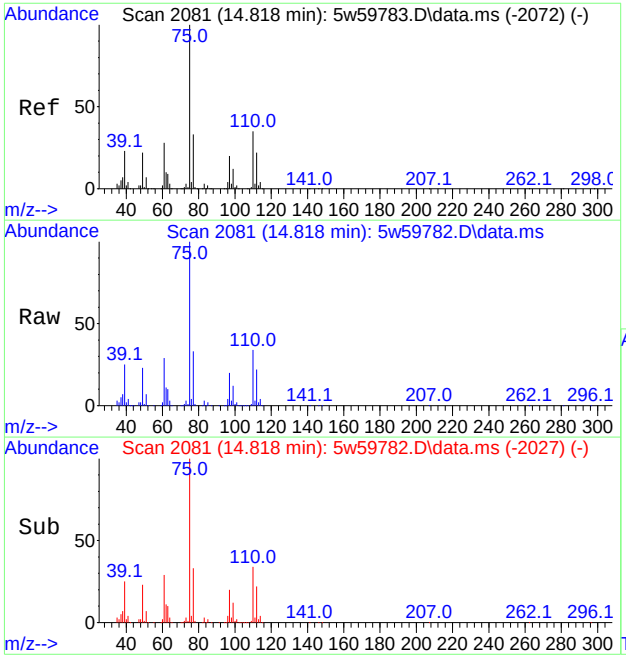


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 6.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 804240

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.2	95.2
131	10.3	0.0	40.3

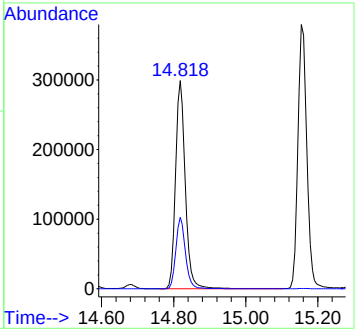


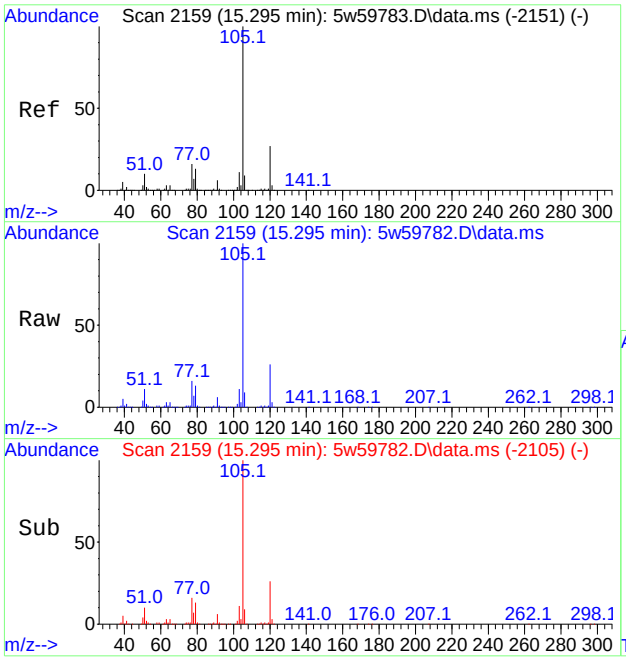


#87
1,2,3-TRICHLOROPROPANE
Concen: 5.21 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 563086

Ion	Ratio	Lower	Upper
75	100		
110	34.0	4.4	64.4

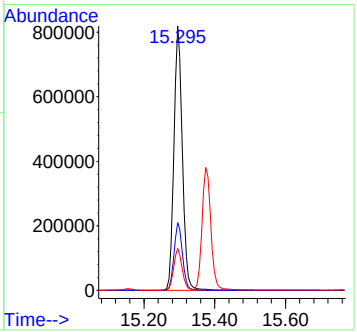


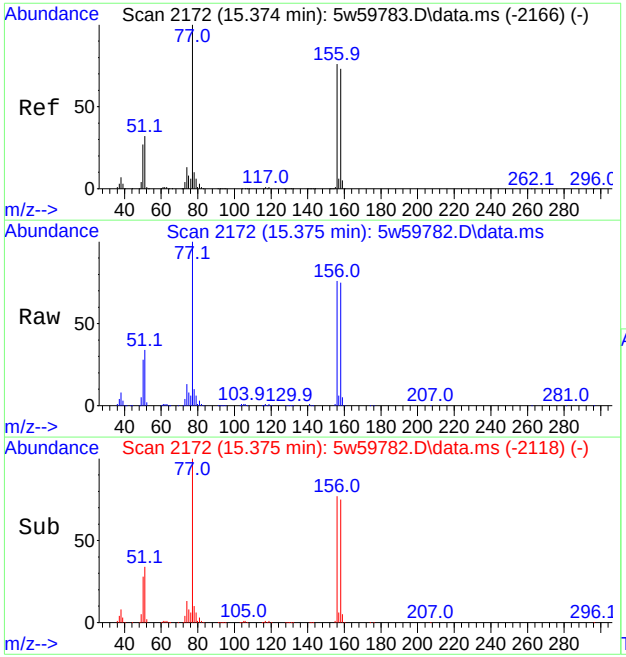


#88
ISOPROPYLBENZENE
Concen: 5.60 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1351649

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	15.5	0.0	45.6

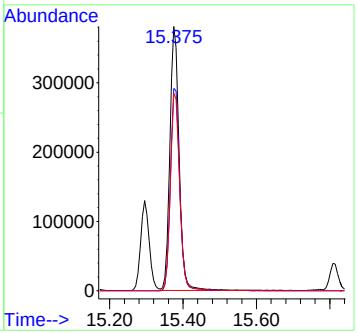


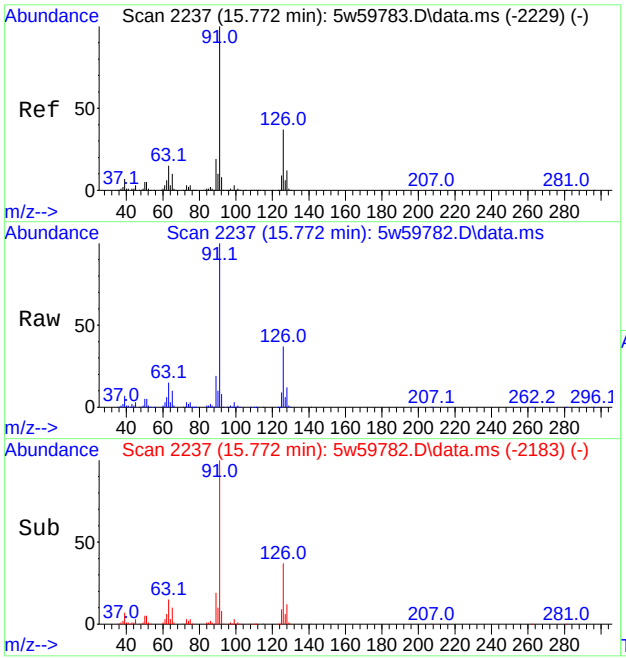


#89
BROMOBENZENE
Concen: 5.25 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 77 Resp: 663458

Ion	Ratio	Lower	Upper
77	100		
156	78.3	54.9	101.9
158	75.8	53.5	99.3

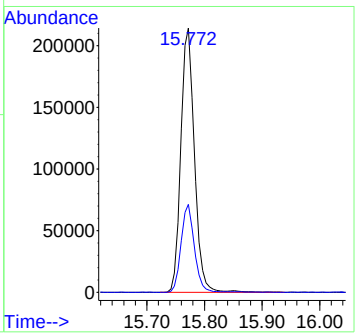


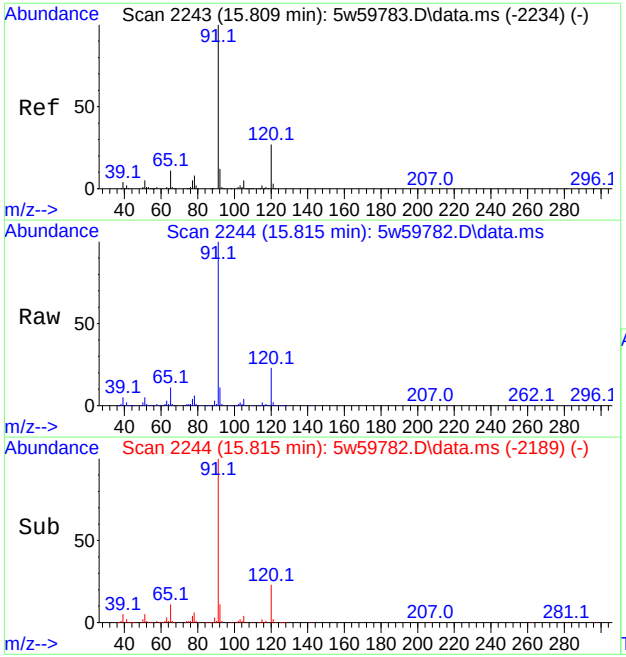


#90
2-CHLOROTOLUENE
Concen: 5.42 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:126 Resp: 351599

Ion	Ratio	Lower	Upper
126	100		
128	32.9	2.7	62.7

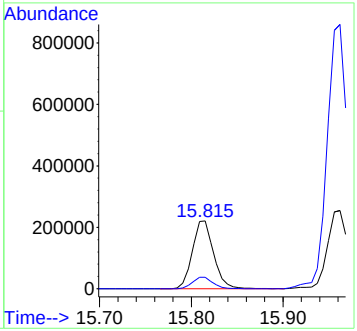


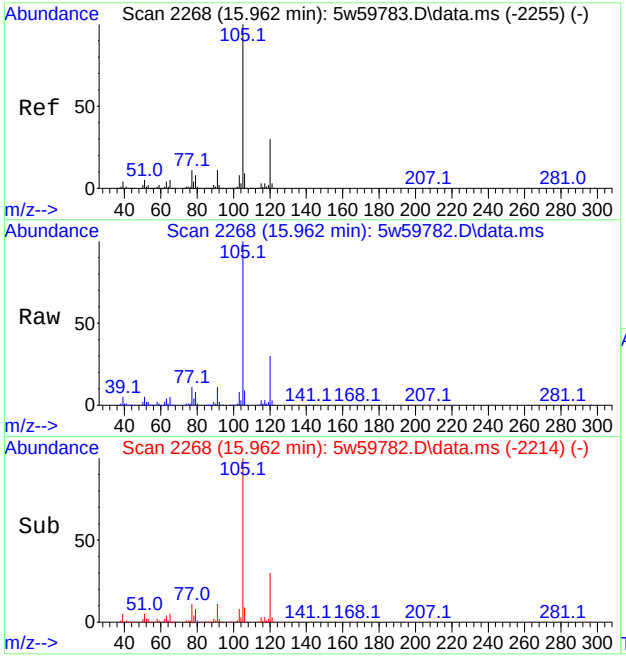


#91
n-PROPYLBENZENE
Concen: 5.54 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:120 Resp: 357322

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

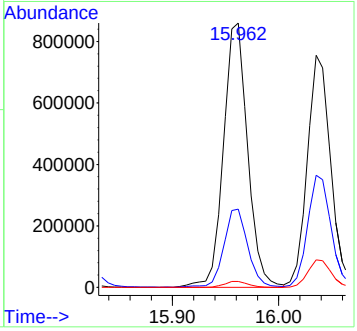


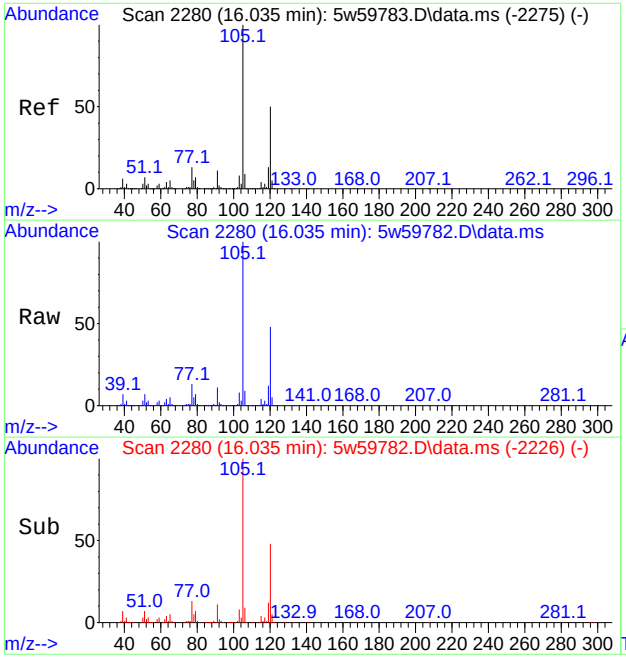


#92
4-ETHYLTOLUENE
Concen: 6.29 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1362882

Ion	Ratio	Lower	Upper
105	100		
120	29.5	0.0	59.9
119	2.3	0.0	32.3

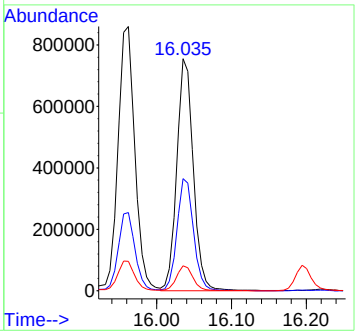


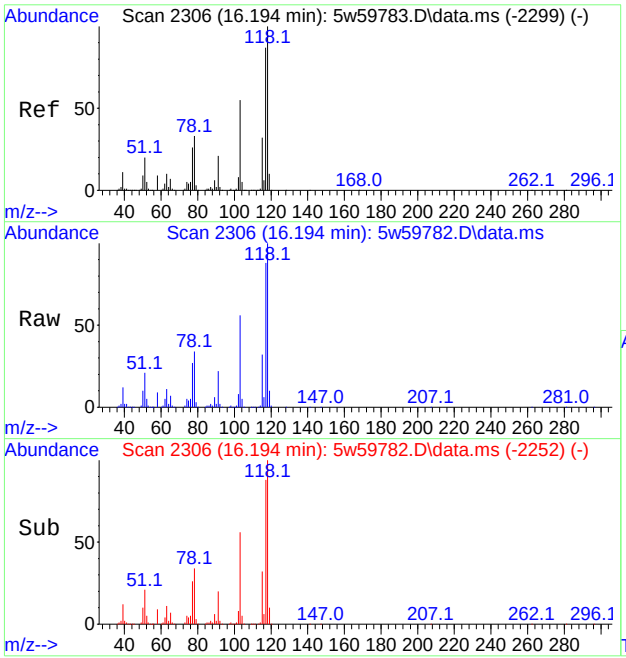


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.77 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1159491

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.4	79.4
91	10.9	0.0	40.8

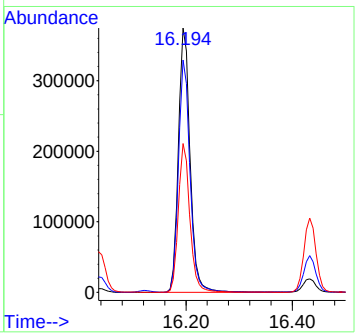


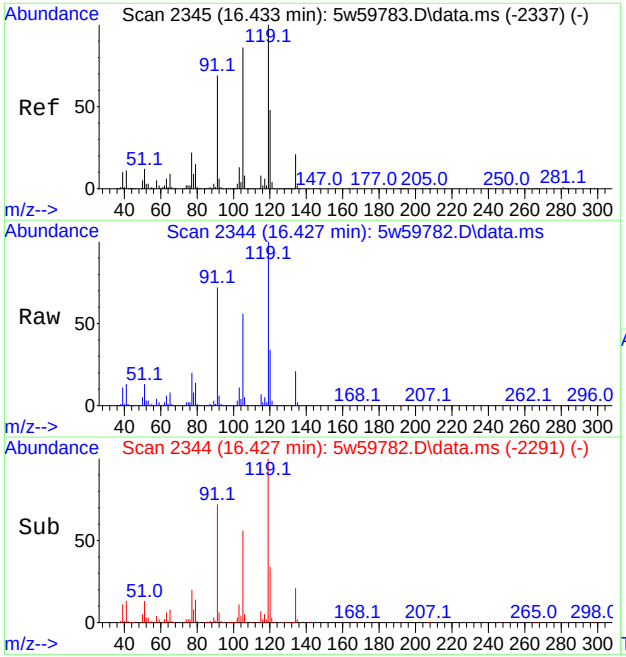


#94
ALPHA-METHYLSTYRENE
Concen: 5.89 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:118 Resp: 573224

Ion	Ratio	Lower	Upper
118	100		
117	87.5	60.9	113.1
103	55.8	38.6	71.8

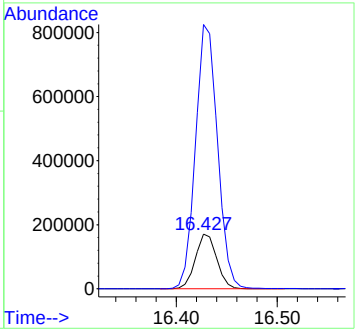


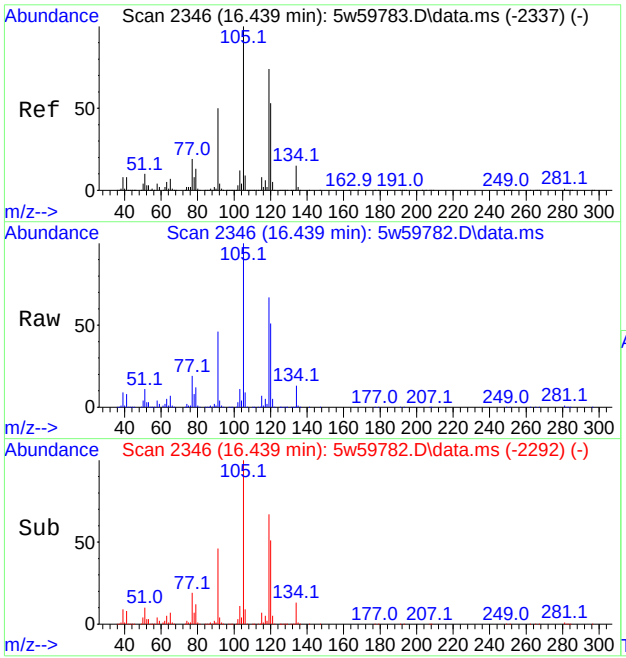


#95
tert-BUTYLBENZENE
Concen: 6.02 PPBV
RT: 16.427 min Scan# 2344
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 250823

Ion	Ratio	Lower	Upper
134	100		
119	500.9	459.3	519.3

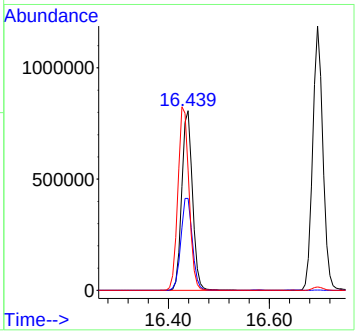


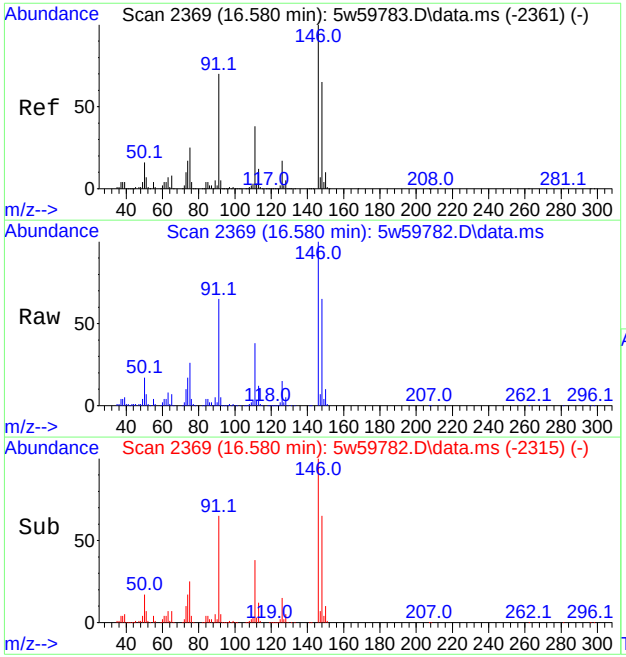


#96
1,2,4-TRIMETHYLBENZENE
Concen: 6.18 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1191915

Ion	Ratio	Lower	Upper
105	100		
120	55.1	25.7	85.7
119	105.4	75.7	135.7

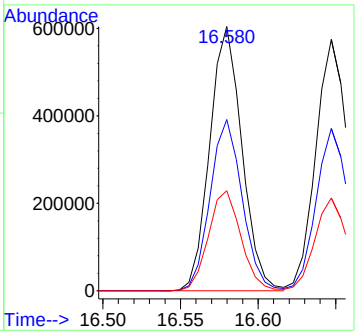


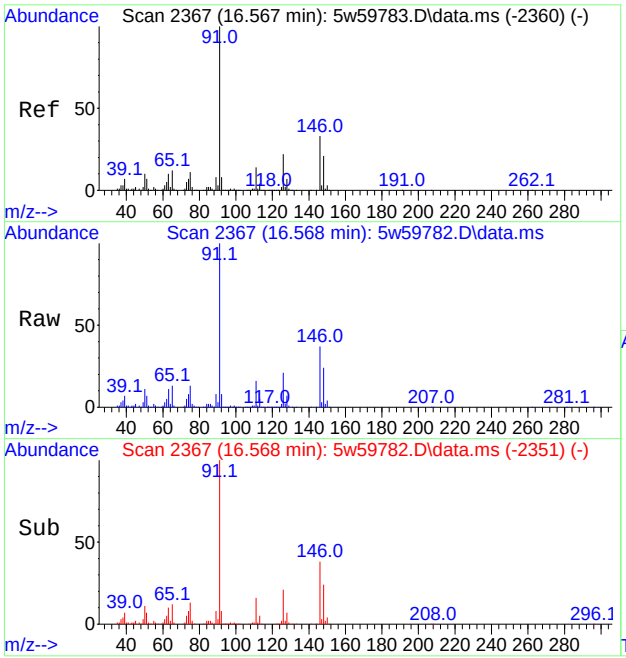


#97
m-DICHLOROBENZENE
Concen: 5.56 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 871935

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.8	94.8
111	38.2	8.2	68.2

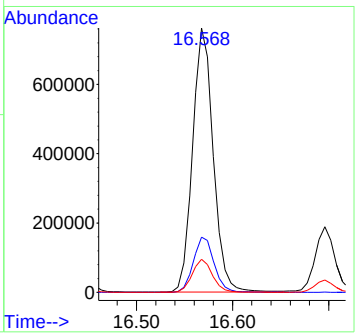


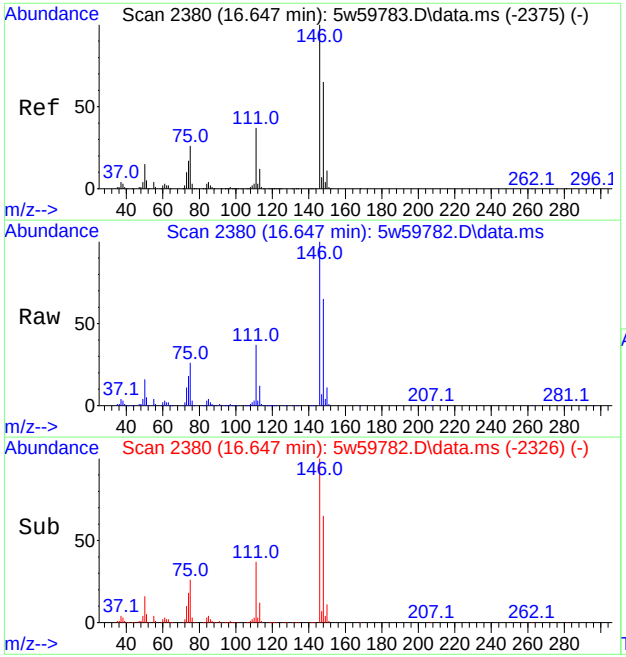


#98
BENZYL CHLORIDE
Concen: 6.44 PPBV
RT: 16.568 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1137176

Ion	Ratio	Lower	Upper
91	100		
126	21.2	0.0	51.7
65	12.5	0.0	42.2

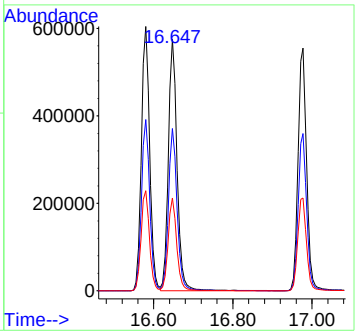


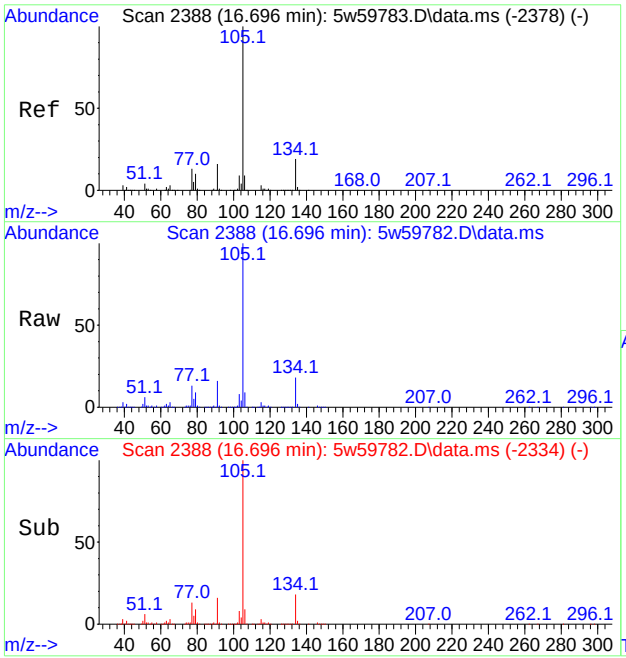


#99
p-DICHLOROBENZENE
Concen: 5.40 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 878264

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.6	94.6
111	36.4	6.7	66.7

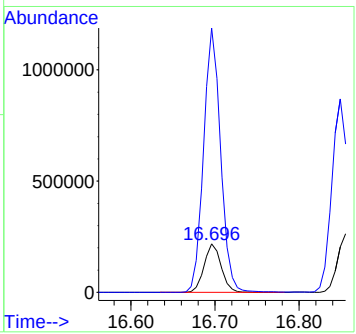


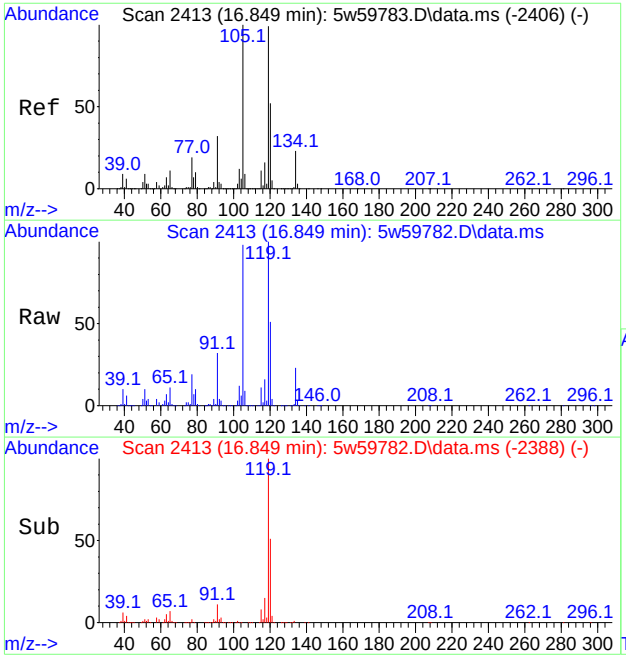


#100
sec-BUTYLBENZENE
Concen: 5.79 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 309649

Ion	Ratio	Lower	Upper
134	100		
105	540.4	502.5	562.5

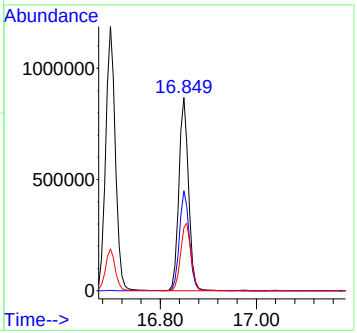


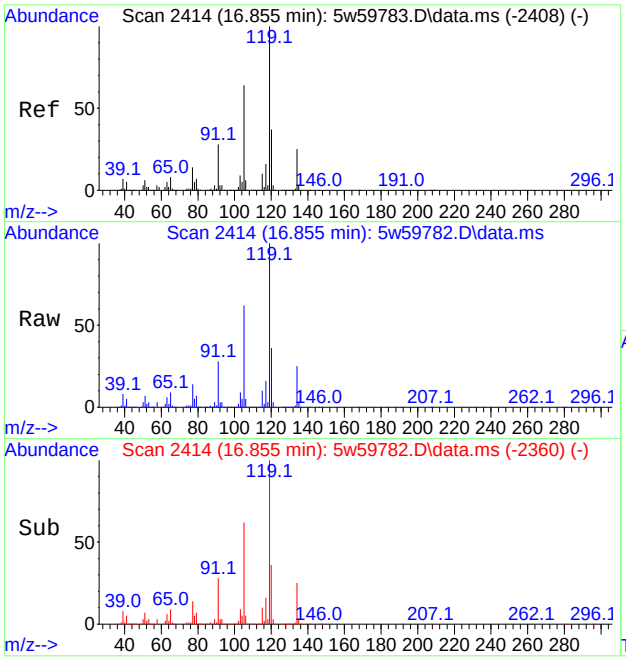


#101
1,2,3-TRIMETHYLBENZENE
Concen: 5.87 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1209627

Ion	Ratio	Lower	Upper
105	100		
120	53.0	23.5	83.5
91	37.7	7.4	67.4

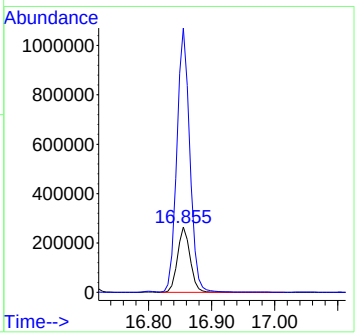


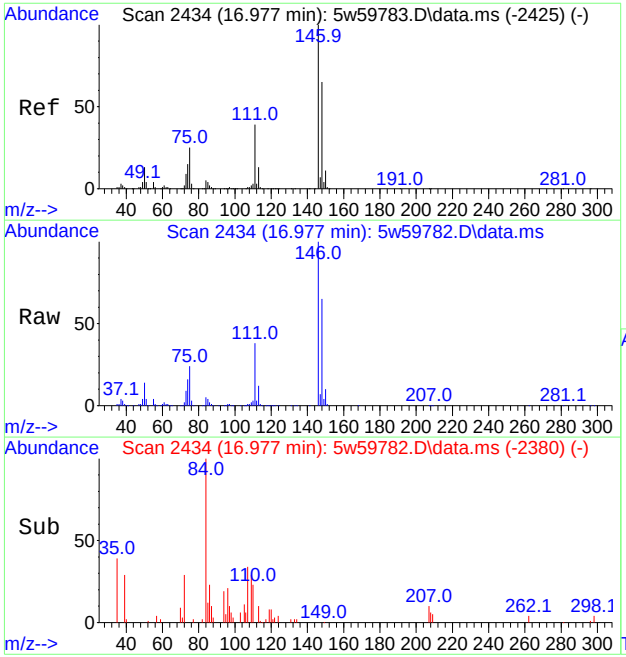


#102
p-ISOPROPYLTOLUENE
Concen: 6.01 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 367882

Ion	Ratio	Lower	Upper
134	100		
119	416.3	377.7	437.7

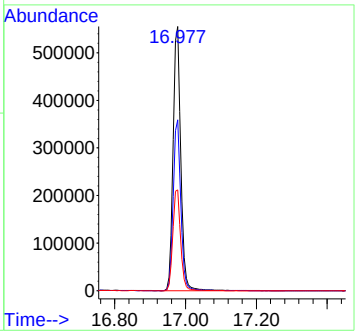


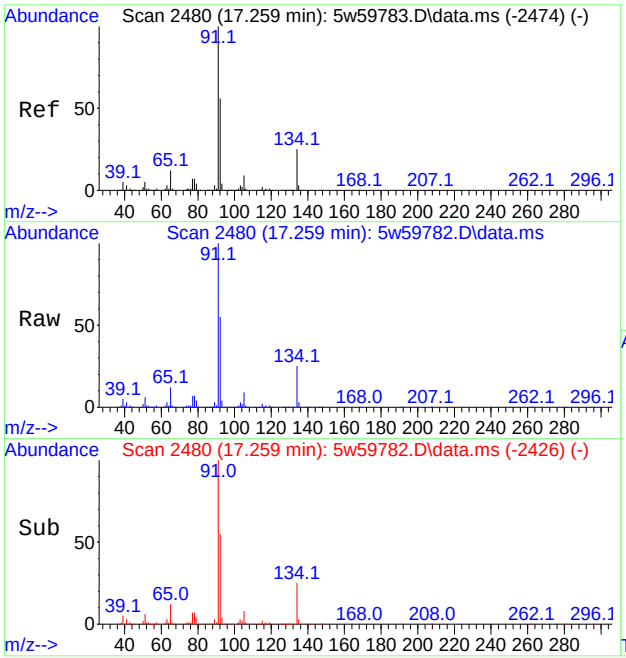


#103
o-DICHLOROBENZENE
Concen: 5.25 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 831952

Ion	Ratio	Lower	Upper
146	100		
148	64.2	34.3	94.3
111	39.5	9.2	69.2

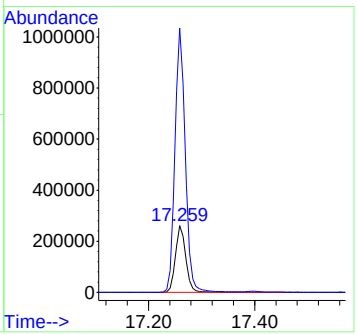


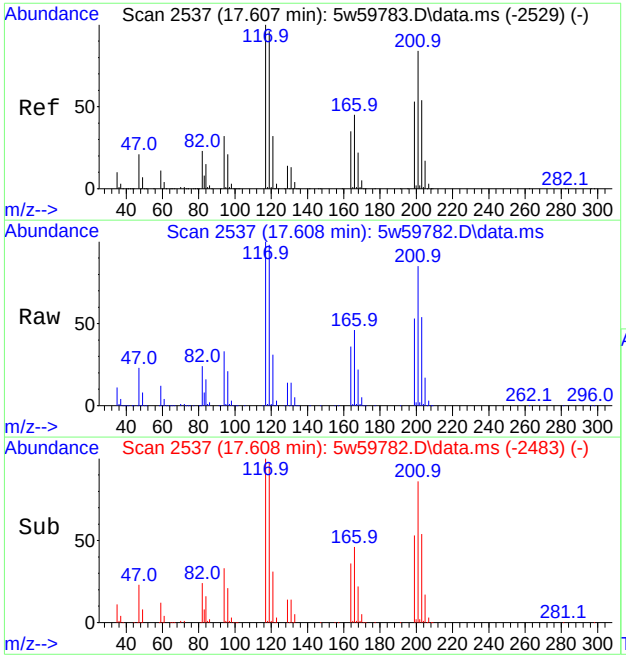


#104
n-BUTYLBENZENE
Concen: 6.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 353476

Ion	Ratio	Lower	Upper
134	100		
91	394.8	363.1	423.1

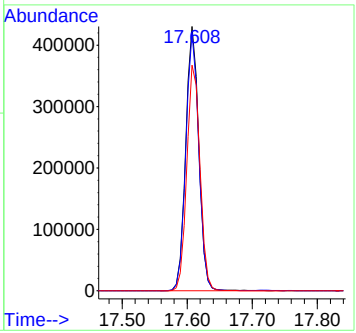


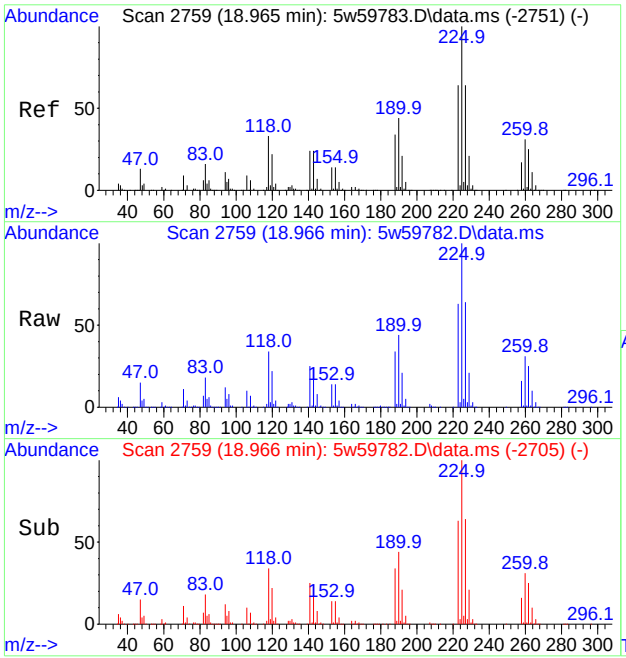


#105
HEXACHLOROETHANE
Concen: 5.71 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 597723

Ion	Ratio	Lower	Upper
117	100		
119	96.4	67.2	124.8
201	86.1	61.1	113.5

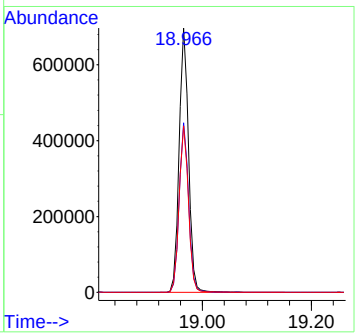


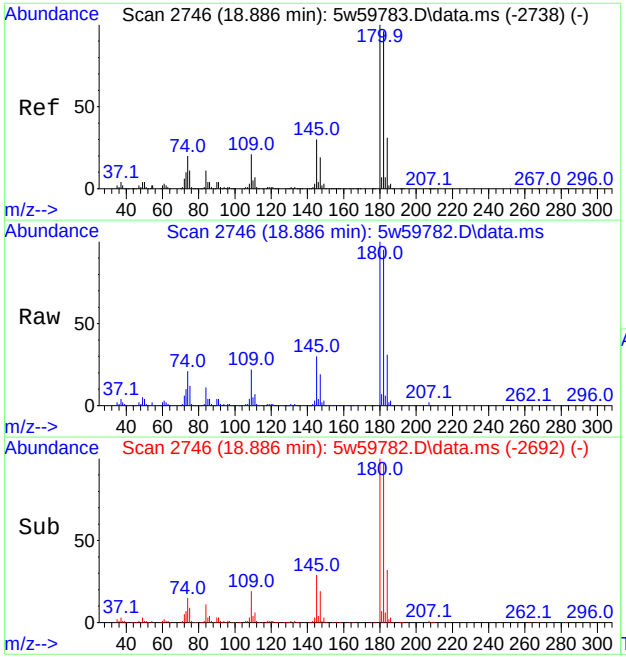


#106
HEXACHLOROBUTADIENE
Concen: 5.13 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:225 Resp: 827665

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	62.9	33.3	93.3

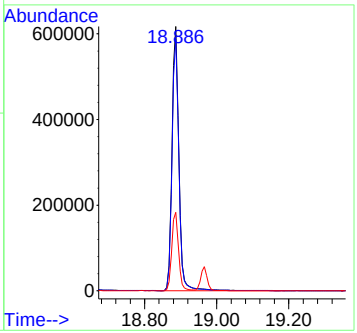


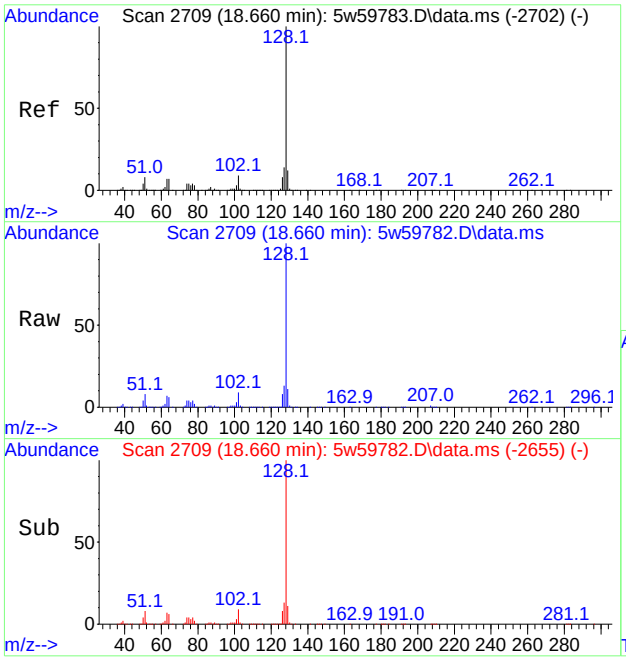


#107
1,2,4-TRICHLOROBENZENE
Concen: 7.16 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:180 Resp: 807736

Ion	Ratio	Lower	Upper
180	100		
182	95.5	65.4	125.4
145	29.5	0.0	59.4

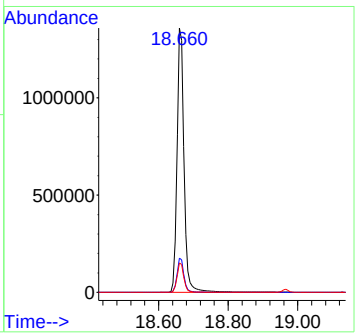


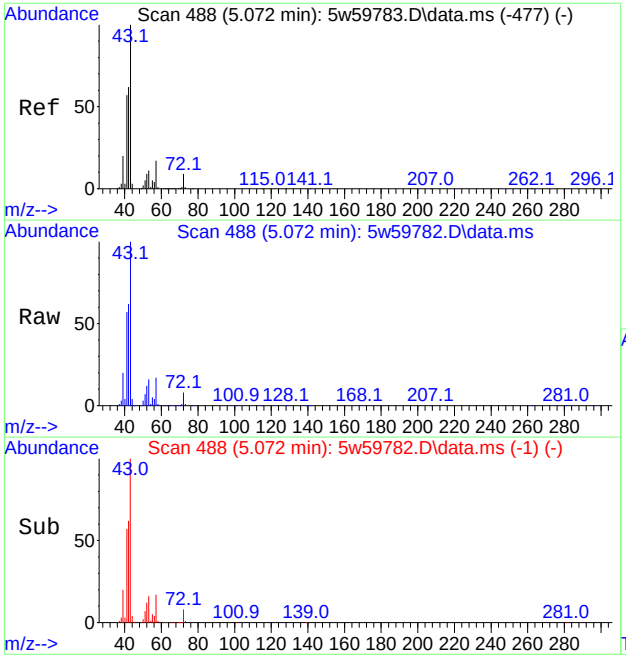


#108
NAPHTHALENE
Concen: 7.30 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:128 Resp: 1912544

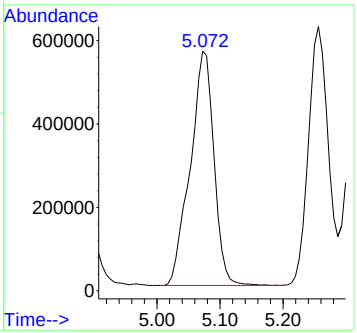
Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	43.3
129	11.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 4.29 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:TIC Resp: 1469674



7.7.5

7

Manual Integration Approval Summary

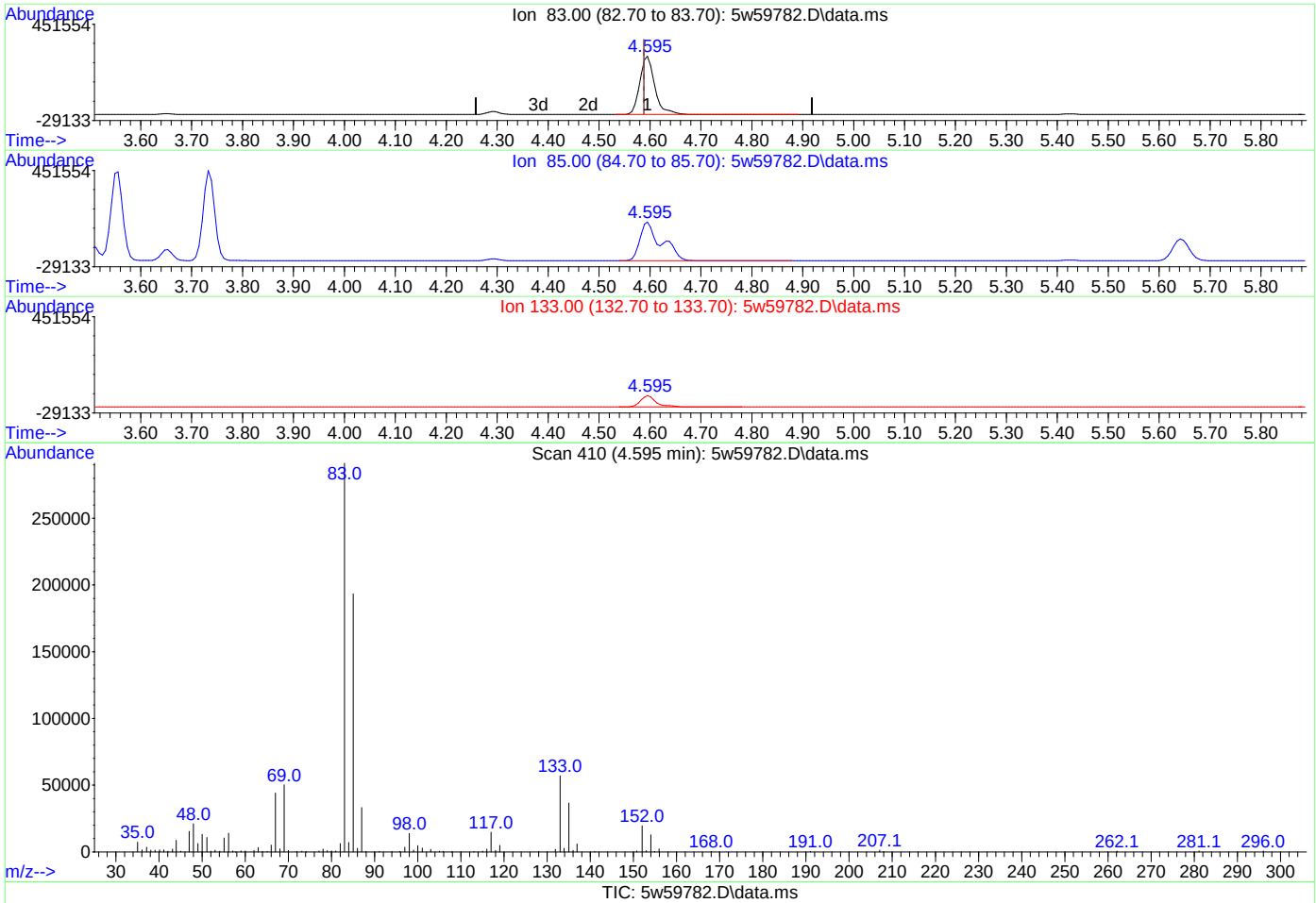
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59782.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 06:57 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.43	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV

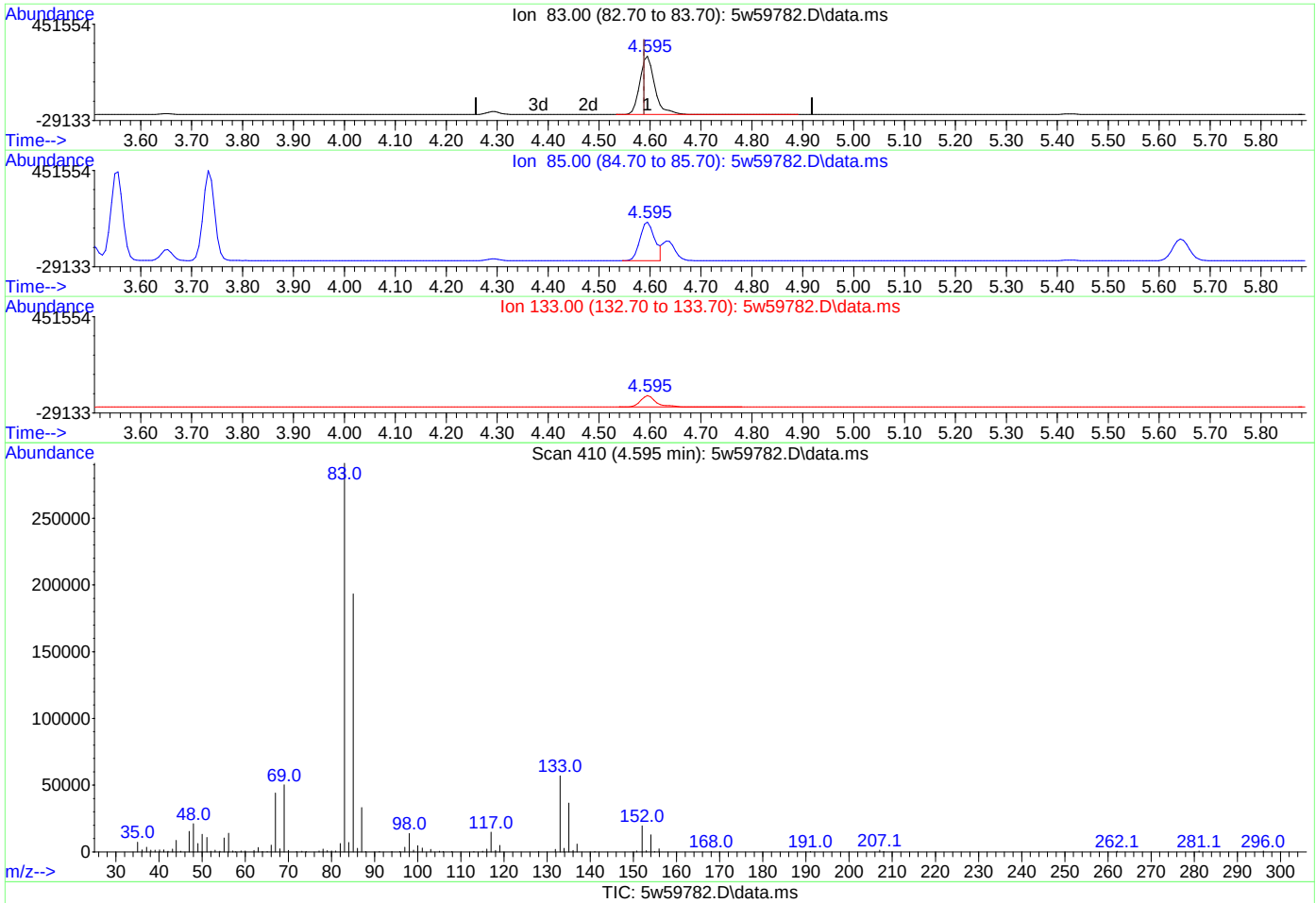
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.31#
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV m

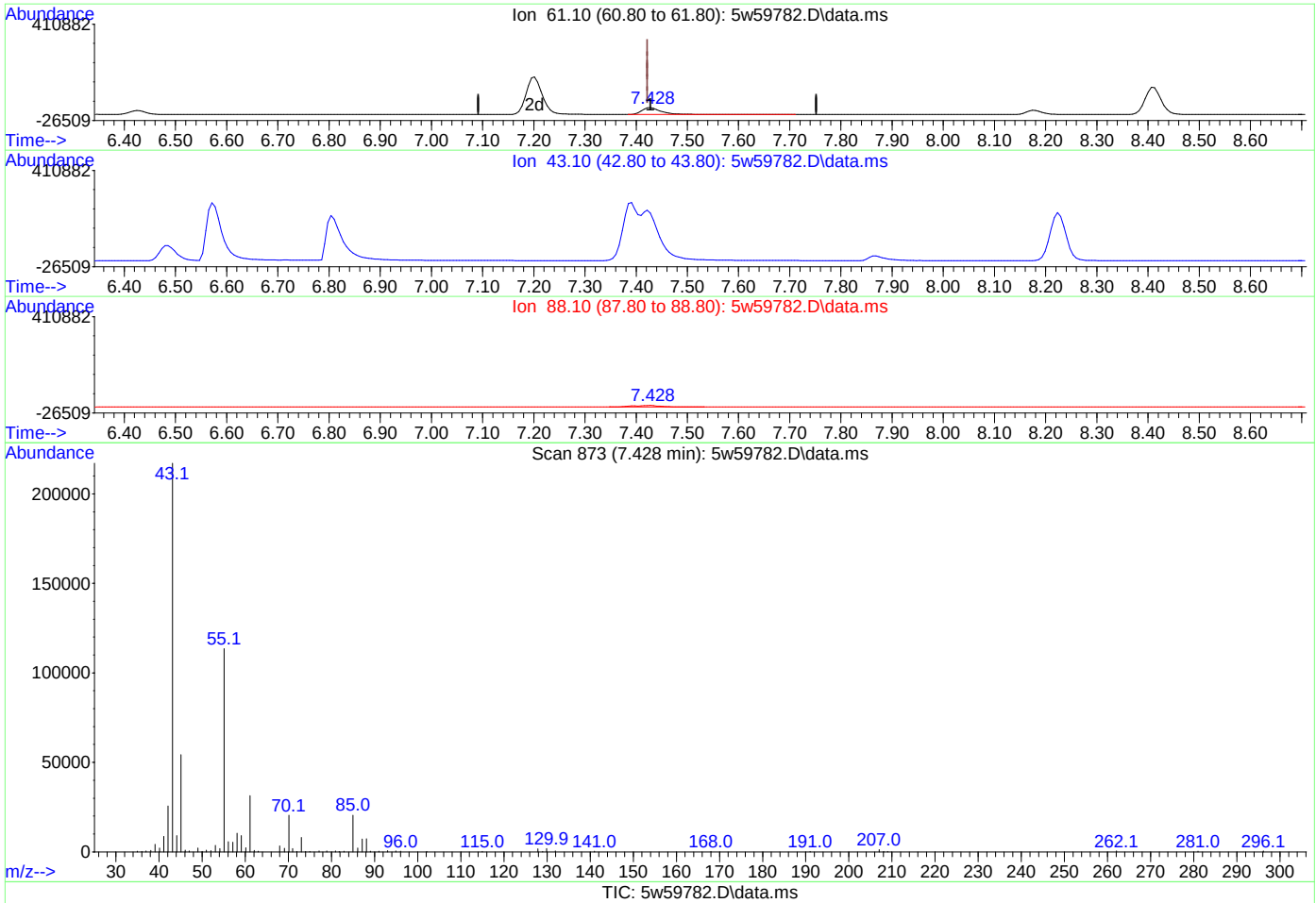
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.72
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV

response 87258

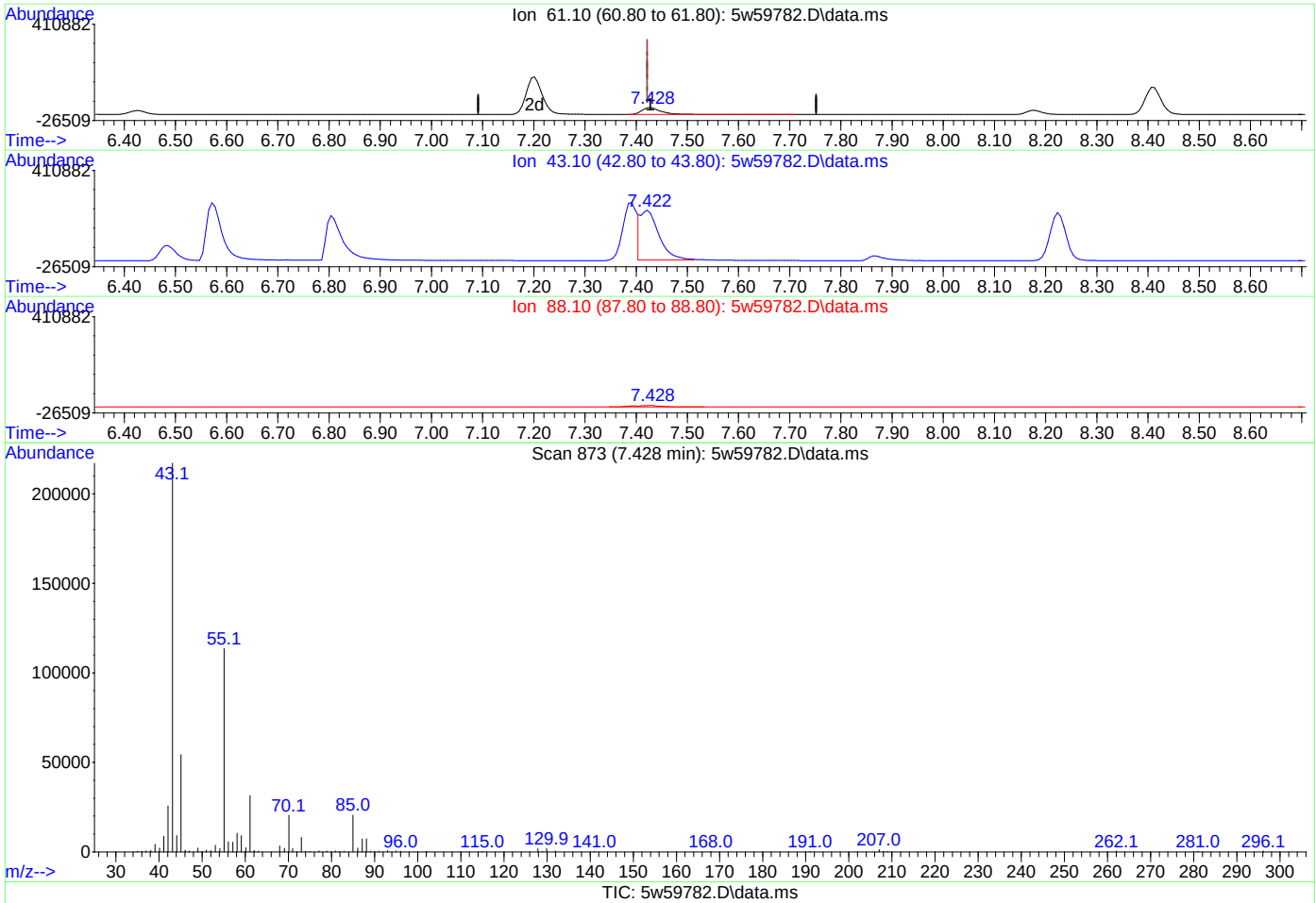
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	32.87
0.00	0.00	0.00

5W59782.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV m

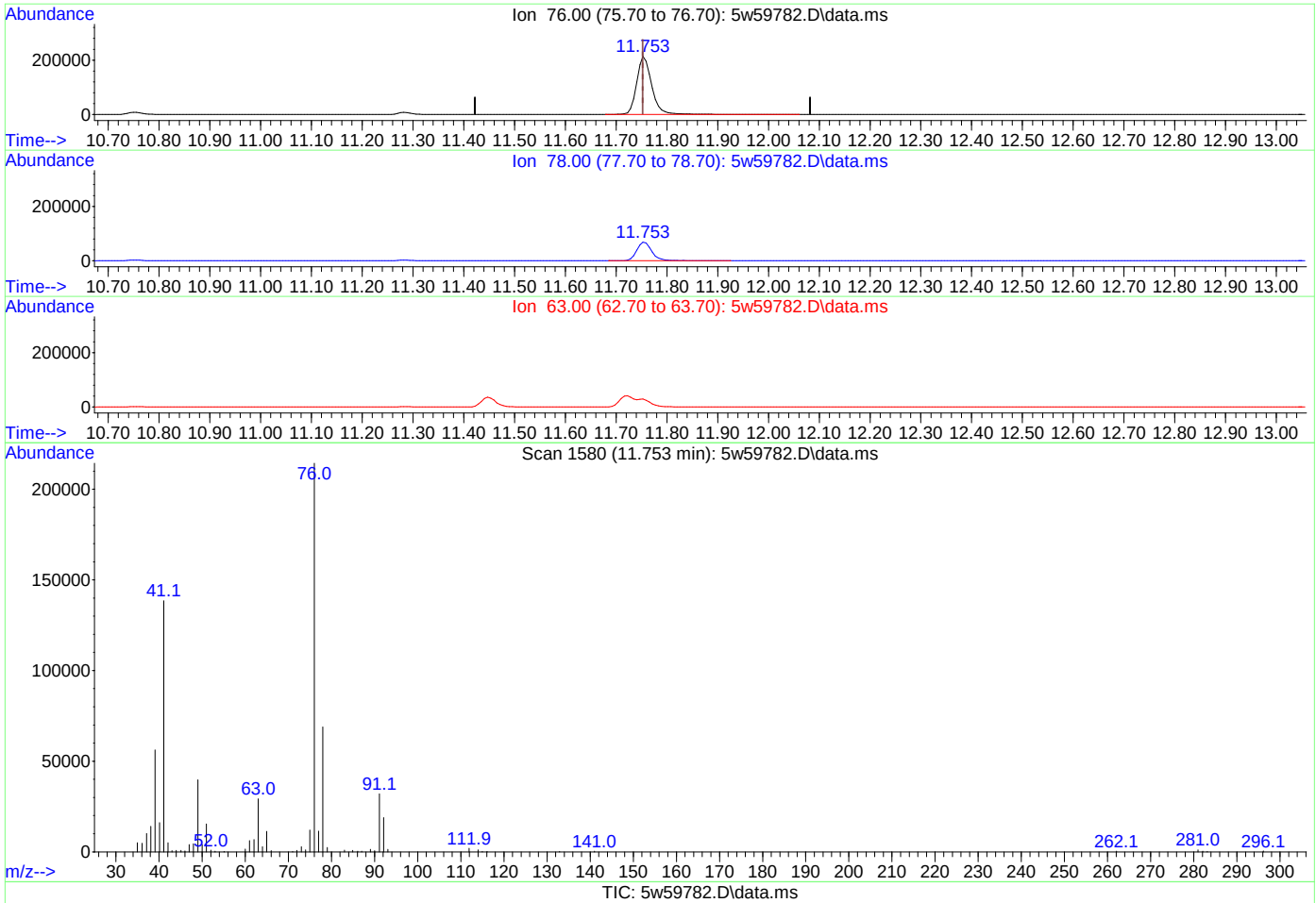
response 87258

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	636.36#
88.10	34.50	32.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV

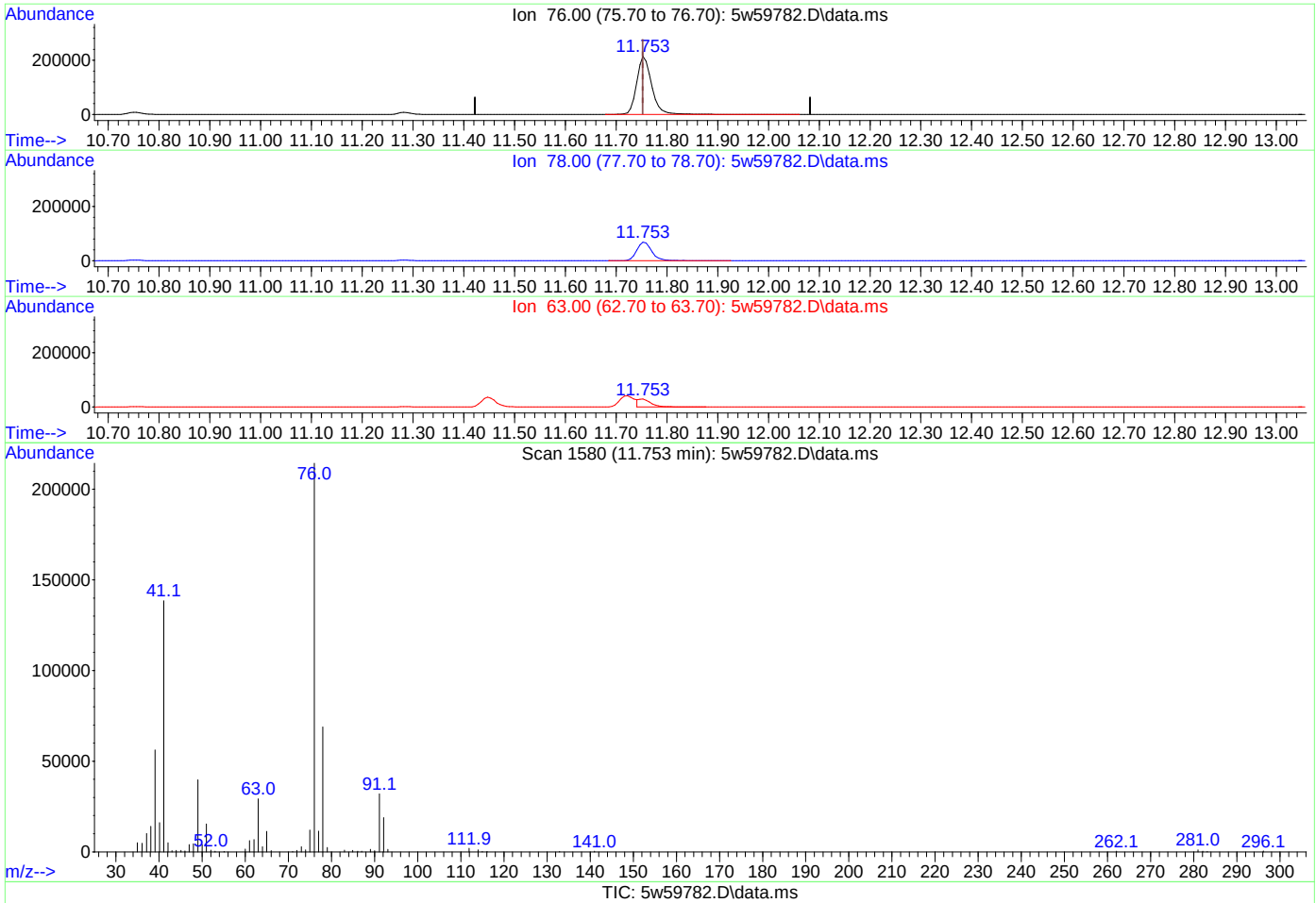
response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV m

response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	11.22
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	458592	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2019630	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1088548	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	459307	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1400456	10.41	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.10%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	318291	5.37	PPBV	100
3) FREON 152A	3.445	65	311212	8.83	PPBV	100
4) CHLORODIFLUOROMETHANE	3.475	67	154727	9.59	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.506	116	762524	10.03	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.549	85	1445515	9.55	PPBV	100
7) PROPYLENE	3.500	41	343468	8.81	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1103467	8.04	PPBV	100
9) FREON 114	3.732	85	1375524	10.56	PPBV	100
10) CHLOROMETHANE	3.665	52	141881	8.80	PPBV	100
11) VINYL CHLORIDE	3.818	62	472875	9.34	PPBV	100
12) 1,3-BUTADIENE	3.910	54	284232	8.35	PPBV	100
13) n-BUTANE	3.946	43	454503	7.37	PPBV	100
14) BROMOMETHANE	4.106	94	500092	10.05	PPBV	100
15) CHLOROETHANE	4.222	64	205309	8.90	PPBV	100
16) DICHLOROFLUOROMETHANE	4.289	67	1019855	8.67	PPBV	100
17) ACETONITRILE	4.479	41	252958	7.21	PPBV	100
18) ACROLEIN	4.571	56	155868	8.51	PPBV	100
19) FREON 123	4.589	83	1157483m	9.93	PPBV	
20) FREON 123A	4.632	117	701588	9.69	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1209415	7.29	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	906732	7.67	PPBV	100
23) ACETONE	4.675	58	180987	8.59	PPBV	100
24) PENTANE	5.072	42	444915	7.13	PPBV	100
25) IODOMETHANE	5.256	142	1538968	10.06	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	488317	8.97	PPBV	100
27) CARBON DISULFIDE	5.672	76	1343447	9.35	PPBV	100
28) ETHANOL	4.320	45	168471	7.22	PPBV	100
29) BROMOETHENE	4.479	106	508476	10.65	PPBV	100
30) ACRYLONITRILE	5.042	52	310247	8.54	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	424759	8.70	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	218615	9.74	PPBV	100
33) FREON 113	5.641	151	865046	9.06	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	496473	8.93	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.378	59	968852	8.31	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.479	73	1323434	9.62	PPBV	100
37) TETRAHYDROFURAN	7.856	72	199227	10.87	PPBV	100
38) HEXANE	7.385	57	758015	9.88	PPBV	100
39) VINYL ACETATE	6.565	86	82624	9.01	PPBV	100
40) 1,1-DICHLOROETHANE	6.424	63	931030	9.18	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	216147	11.31	PPBV	100
42) cis-1,2-DICHLOROETHYLENE	7.195	96	529578	9.24	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	234936	11.29	PPBV	100
44) ETHYL ACETATE	7.421	61	169787m	10.80	PPBV	
45) METHYL ACRYLATE	7.409	55	948651	10.40	PPBV	100
46) CHLOROFORM	7.476	83	1113306	9.51	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	877406	9.73	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.406	97	1165134	9.11	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1296040	9.17	PPBV	100
50)	1,2-DICHLOROETHANE	8.174	62	793795	9.55	PPBV	100
52)	BENZENE	8.853	78	1461752	10.93	PPBV	100
53)	CYCLOHEXANE	9.110	84	573806	10.80	PPBV	100
54)	2,3-DIMETHYLPENTANE	9.348	71	294377	10.99	PPBV	100
55)	TRICHLOROETHYLENE	9.887	95	733457	10.30	PPBV	100
56)	1,2-DICHLOROPROPANE	9.654	63	587338	10.35	PPBV	100
57)	DIBROMOMETHANE	9.630	174	777595	9.96	PPBV	100
58)	ETHYL ACRYLATE	9.679	55	1150308	11.15	PPBV	100
59)	BROMODICHLOROMETHANE	9.850	83	1291376	10.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2382864	10.46	PPBV	100
61)	1,4-DIOXANE	9.899	88	335180	12.16	PPBV	100
62)	HEPTANE	10.187	43	809108	9.62	PPBV	100
63)	METHYL METHACRYLATE	10.107	69	505563	12.20	PPBV	100
64)	METHYL ISOBUTYL KETONE	10.792	58	480676	11.29	PPBV	100
65)	cis-1,3-DICHLOROPROPENE	10.749	75	988291	11.23	PPBV	87
66)	TOLUENE	11.722	92	1078428	11.29	PPBV	100
67)	1,3-DICHLOROPROPANE	11.753	76	866163m	10.80	PPBV	
68)	trans-1,3-DICHLOROPROPENE	11.282	75	890794	11.02	PPBV	100
69)	1,1,2-TRICHLOROETHANE	11.447	83	593800	11.35	PPBV	100
71)	2-HEXANONE	12.010	58	708433	12.76	PPBV	100
72)	ETHYL METHACRYLATE	12.022	69	915611	13.03	PPBV	100
73)	TETRACHLOROETHYLENE	12.872	164	851797	10.39	PPBV	100
74)	DIBROMOCHLOROMETHANE	12.150	129	1470928	10.66	PPBV	100
75)	1,2-DIBROMOETHANE	12.395	107	1182589	11.73	PPBV	100
76)	OCTANE	12.744	43	1128893	9.72	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	951903	10.52	PPBV	100
78)	CHLOROBENZENE	13.582	112	1532486	10.30	PPBV	100
79)	ETHYLBENZENE	13.986	91	2426187	11.38	PPBV	100
80)	m,p-XYLENE	14.181	106	1894377	23.39	PPBV	100
81)	o-XYLENE	14.683	106	921132	12.40	PPBV	100
82)	STYRENE	14.567	104	1485661	13.06	PPBV	100
83)	NONANE	14.934	43	1167938	10.14	PPBV	100
84)	BROMOFORM	14.249	173	1553327	10.92	PPBV	100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1606320	12.27	PPBV	100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1108756	9.96	PPBV	100
88)	ISOPROPYLBENZENE	15.295	105	2737713	11.04	PPBV	100
89)	BROMOBENZENE	15.374	77	1323542	10.19	PPBV	100
90)	2-CHLOROTOLUENE	15.772	126	723050	10.93	PPBV	100
91)	n-PROPYLBENZENE	15.809	120	754817	11.44	PPBV	100
92)	4-ETHYLTOLUENE	15.962	105	2719805	12.20	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2300675	11.13	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.194	118	1195904	12.09	PPBV	100
95)	tert-BUTYLBENZENE	16.433	134	523380	12.22	PPBV	100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2423323	12.17	PPBV	100
97)	m-DICHLOROBENZENE	16.580	146	1782947	11.15	PPBV	100
98)	BENZYL CHLORIDE	16.567	91	2316167	12.73	PPBV	100
99)	p-DICHLOROBENZENE	16.647	146	1775311	10.72	PPBV	100
100)	sec-BUTYLBENZENE	16.696	134	618616	11.27	PPBV	100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2427524	11.39	PPBV	100
102)	p-ISOPROPYLTOLUENE	16.855	134	746734	11.87	PPBV	100
103)	o-DICHLOROBENZENE	16.977	146	1665215	10.31	PPBV	100
104)	n-BUTYLBENZENE	17.259	134	703045	12.21	PPBV	100
105)	HEXACHLOROETHANE	17.607	117	1210974	11.22	PPBV	100
106)	HEXACHLOROBUTADIENE	18.965	225	1667734	9.84	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1638870	14.54	PPBV	100
108)	NAPHTHALENE	18.660	128	3829842	14.35	PPBV	100
110)	TVHC as equiv Pentane	5.072	TIC	2959189	8.08	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

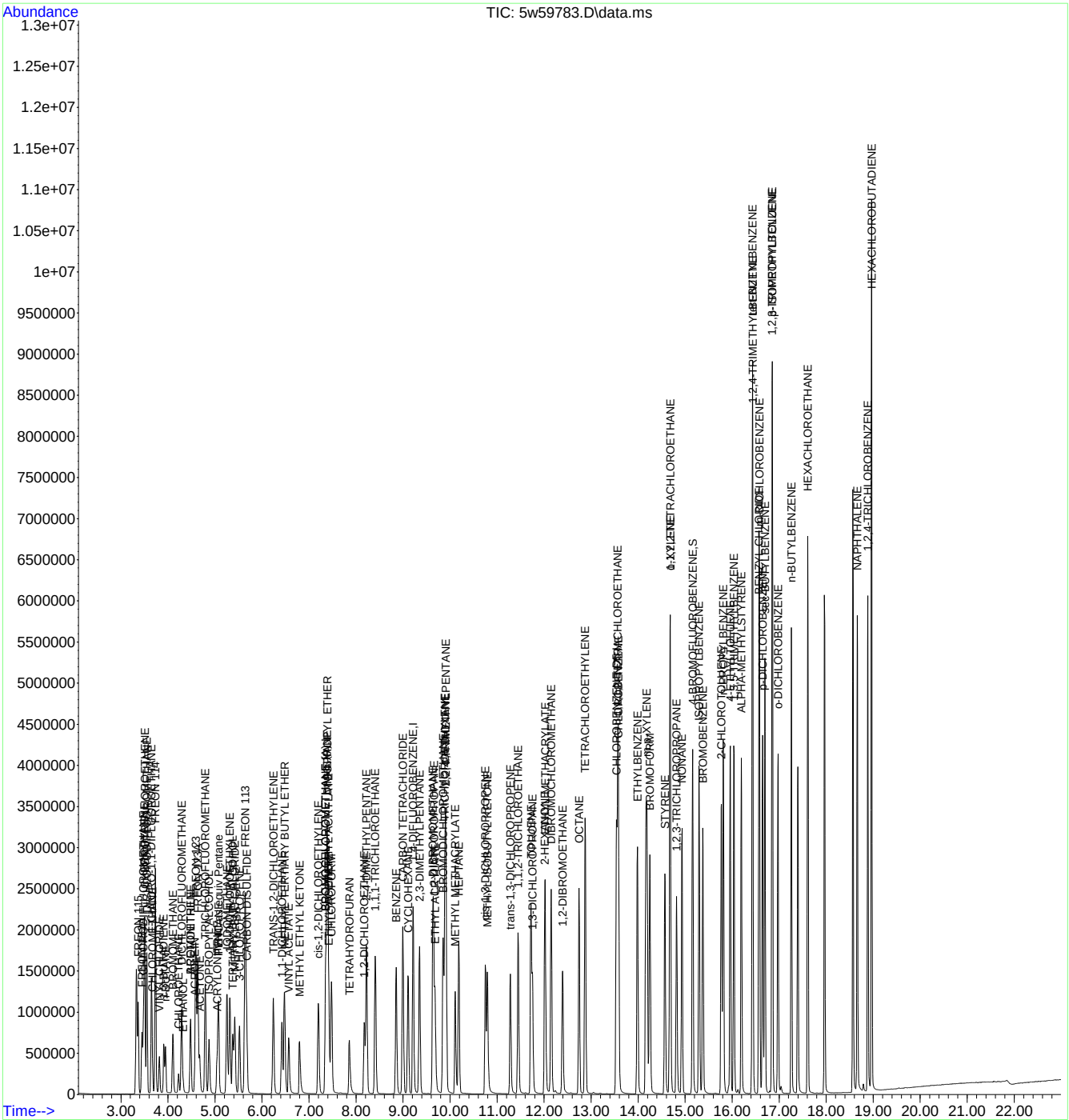
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

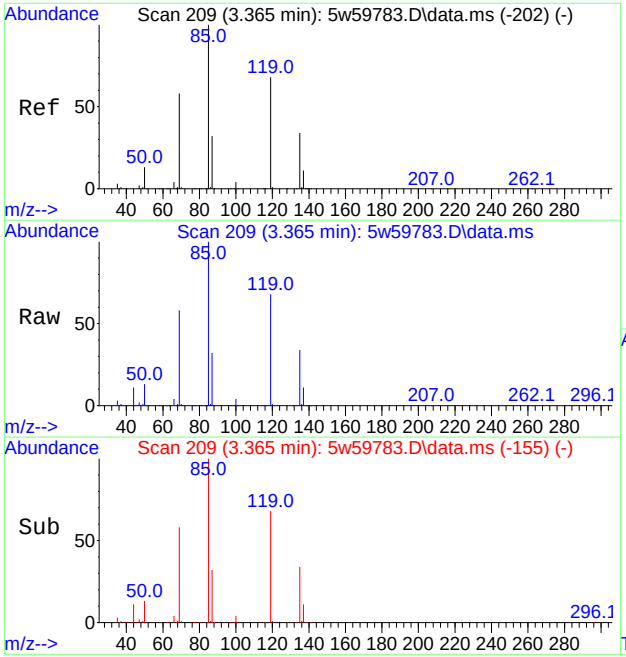
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

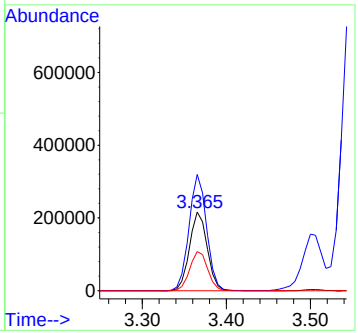


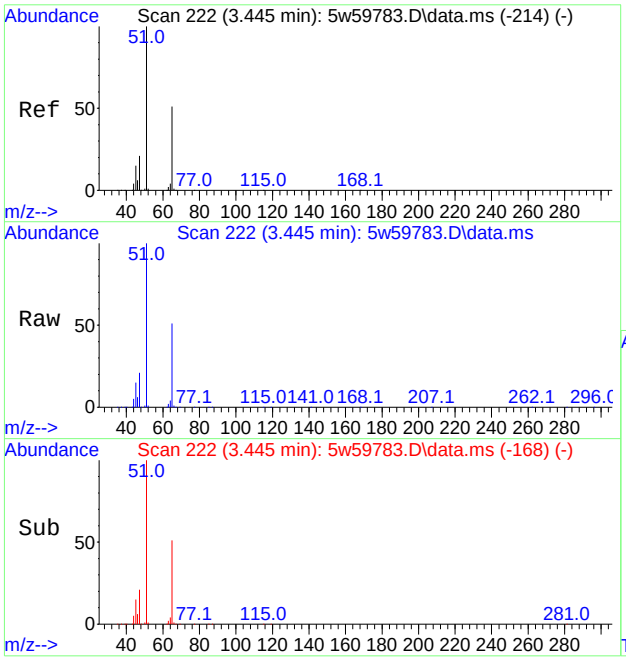


#2
FREON 115
Concen: 5.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:119 Resp: 318291

Ion	Ratio	Lower	Upper
119	100		
85	146.2	116.2	176.2
135	50.6	20.6	80.6

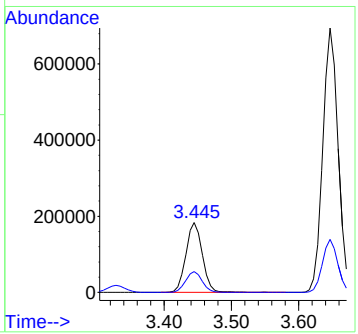


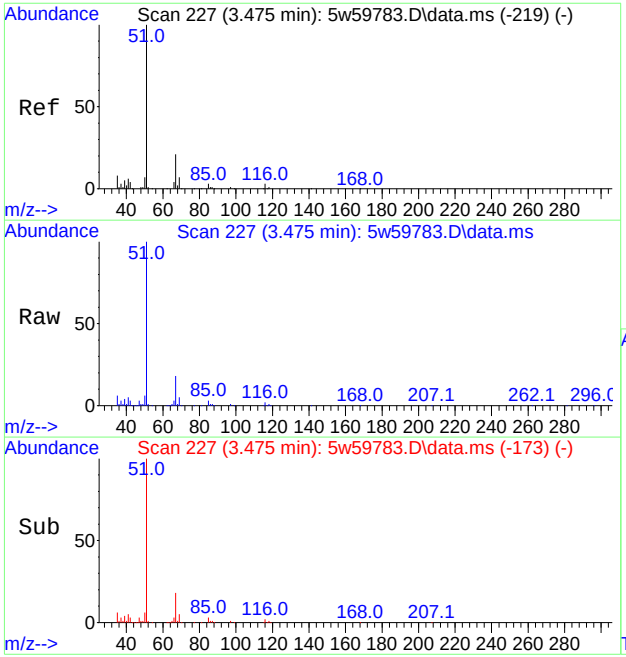


#3
FREON 152A
Concen: 8.83 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 311212

Ion	Ratio	Lower	Upper
65	100		
45	30.0	0.0	60.0

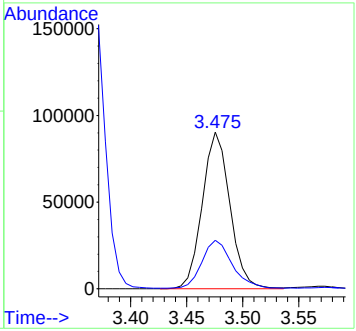


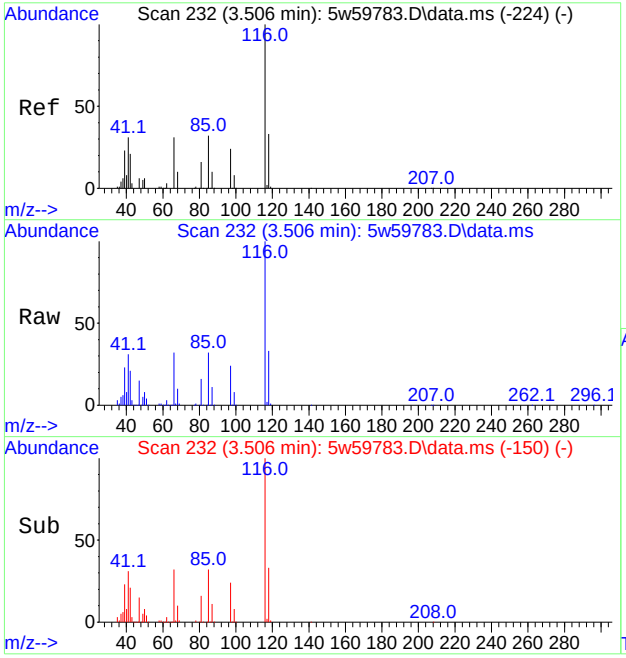


#4
CHLORODIFLUOROMETHANE
Concen: 9.59 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 154727

Ion	Ratio	Lower	Upper
67	100		
69	31.0	1.0	61.0

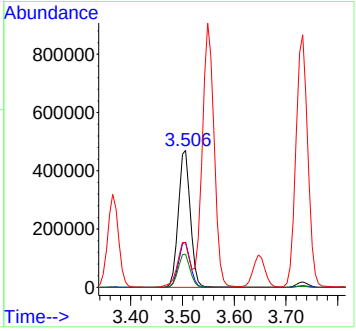


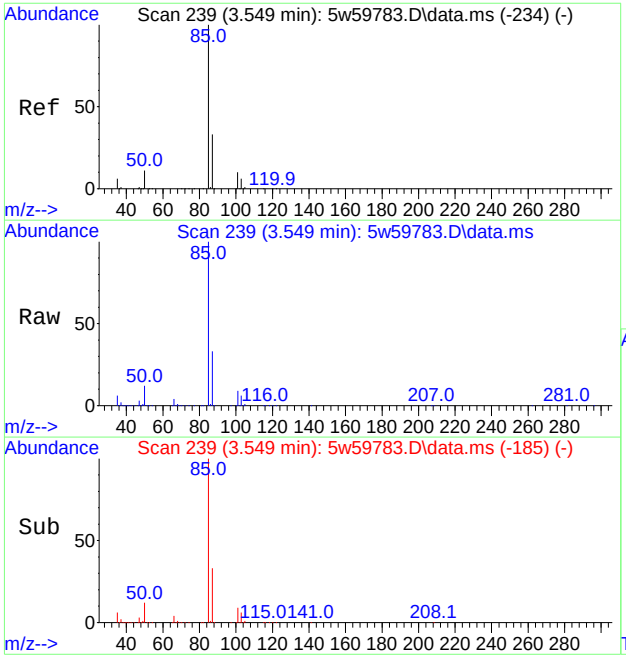


#5
CHLOROTRIFLUOROETHENE
Concen: 10.03 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:116 Resp: 762524

Ion	Ratio	Lower	Upper
116	100		
118	32.7	22.9	42.5
85	33.9	23.7	44.1
97	24.3	17.0	31.6

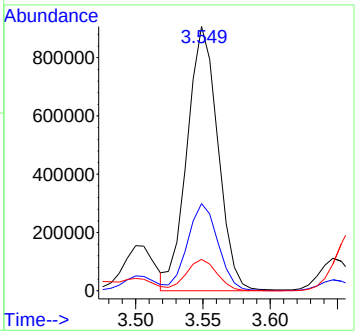


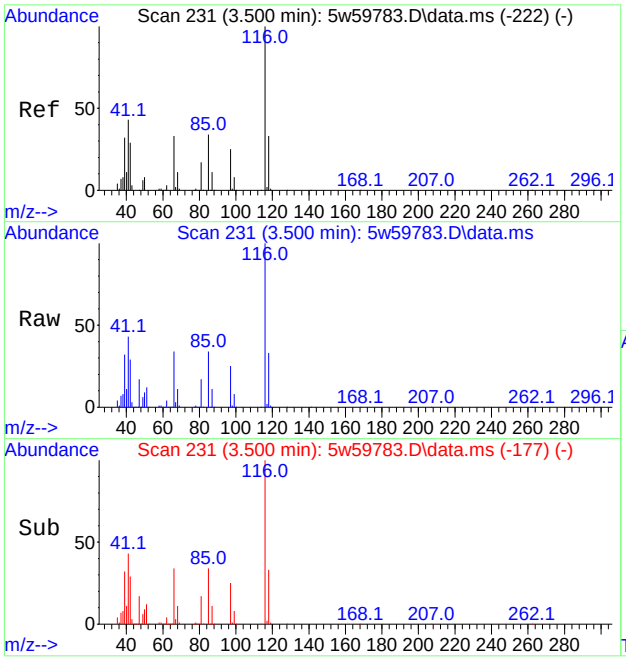


#6
DICHLORODIFLUOROMETHANE
Concen: 9.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1445515

Ion	Ratio	Lower	Upper
85	100		
87	32.5	2.5	62.5
50	11.7	0.0	41.7

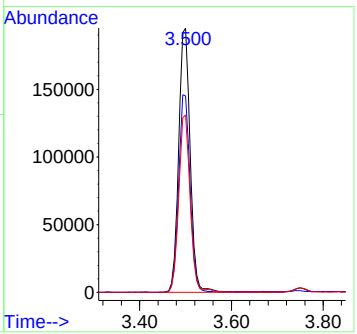


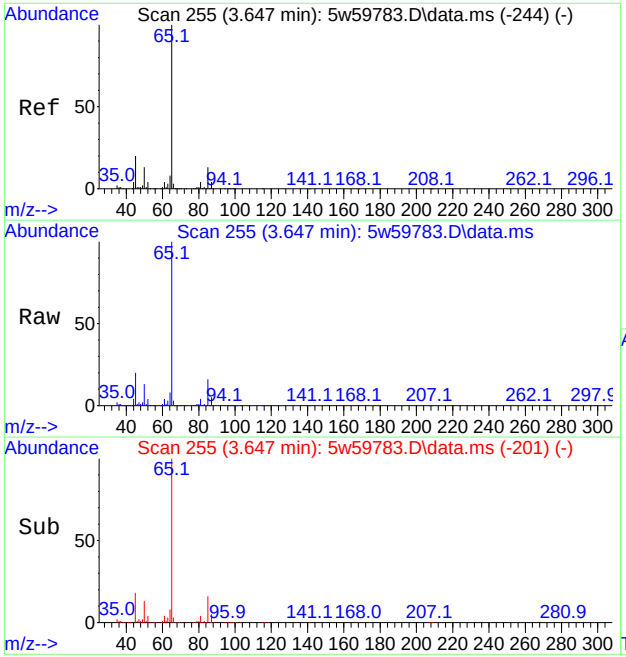


#7
PROPYLENE
Concen: 8.81 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 343468

Ion	Ratio	Lower	Upper
41	100		
39	75.1	45.1	105.1
42	66.3	36.3	96.3

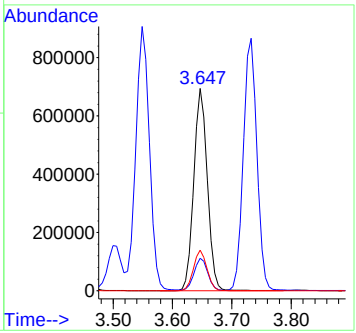


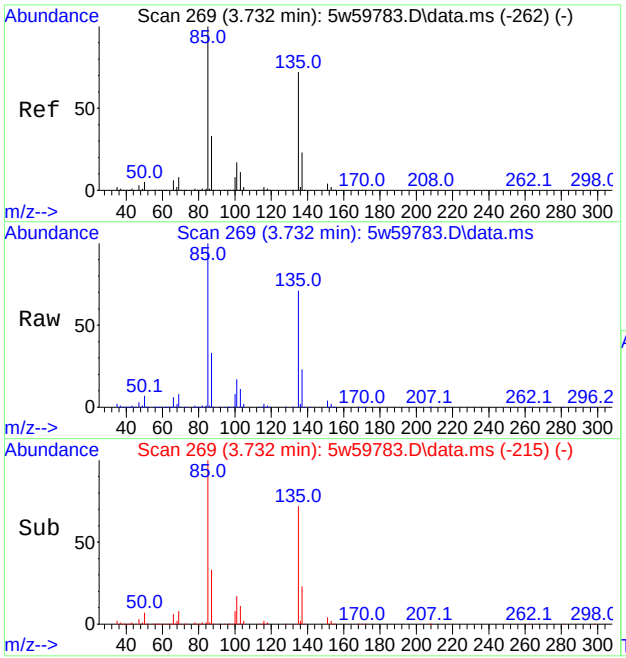


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 8.04 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 1103467

Ion	Ratio	Lower	Upper
65	100		
85	16.4	11.3	21.1
45	20.0	14.0	26.0

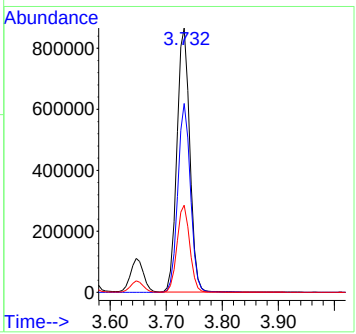


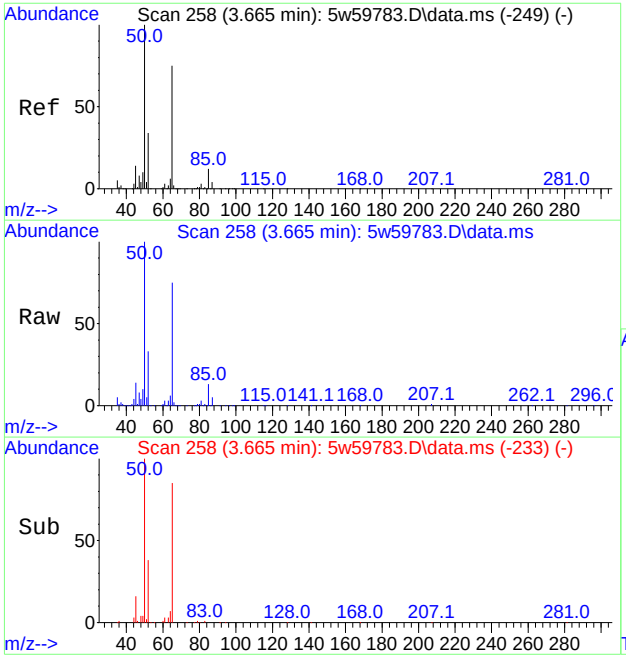


#9
FREON 114
Concen: 10.56 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1375524

Ion	Ratio	Lower	Upper
85	100		
135	70.5	40.5	100.5
87	33.0	3.0	63.0

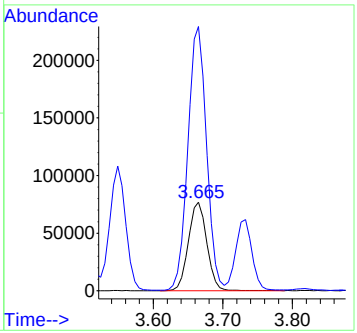


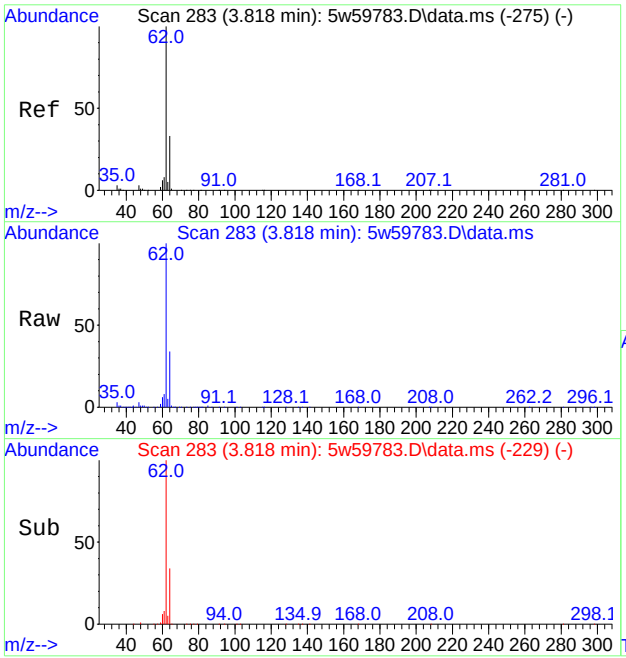


#10
CHLOROMETHANE
Concen: 8.80 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 141881

Ion	Ratio	Lower	Upper
52	100		
50	297.9	267.9	327.9

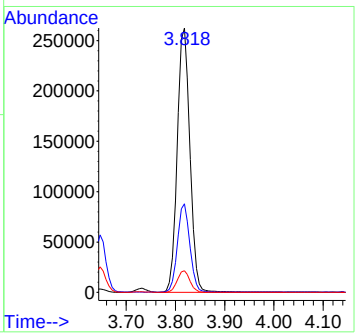


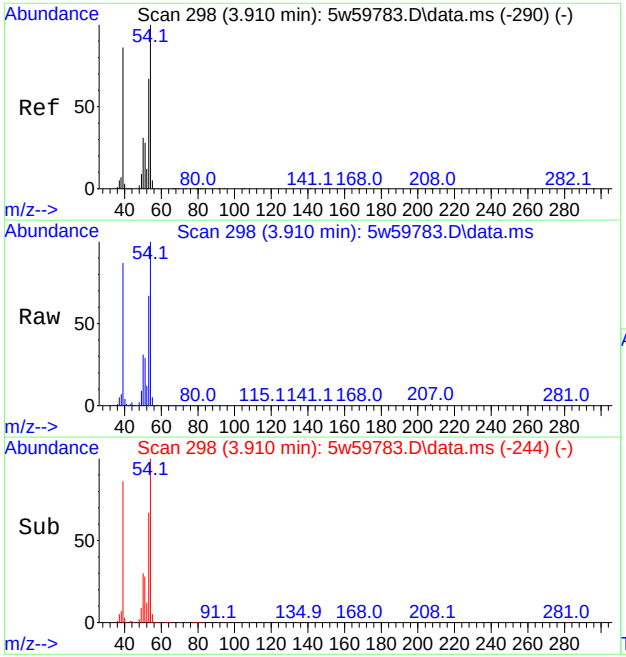


#11
VINYL CHLORIDE
Concen: 9.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 472875

Ion	Ratio	Lower	Upper
62	100		
64	33.6	3.6	63.6
61	8.2	0.0	38.2

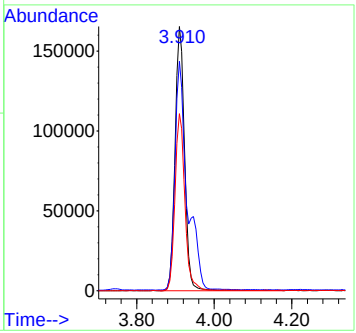


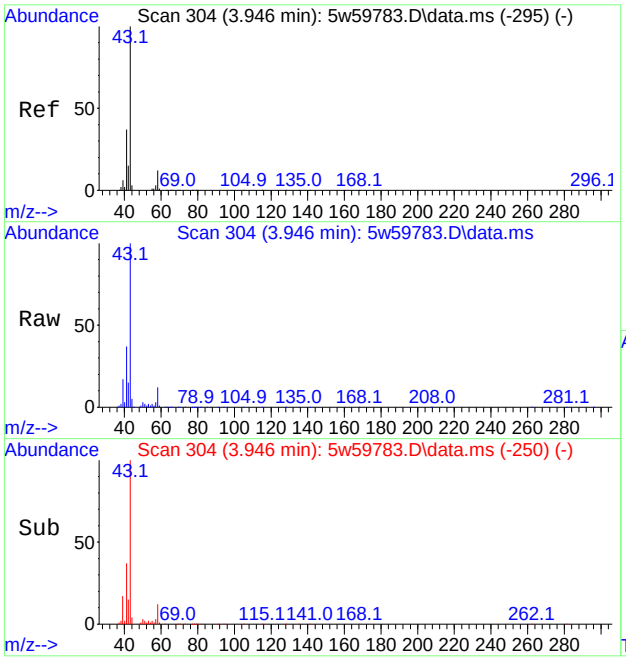


#12
1,3-BUTADIENE
Concen: 8.35 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 54 Resp: 284232

Ion	Ratio	Lower	Upper
54	100		
39	112.0	82.0	142.0
53	70.2	40.2	100.2

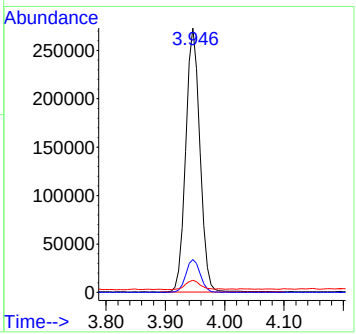


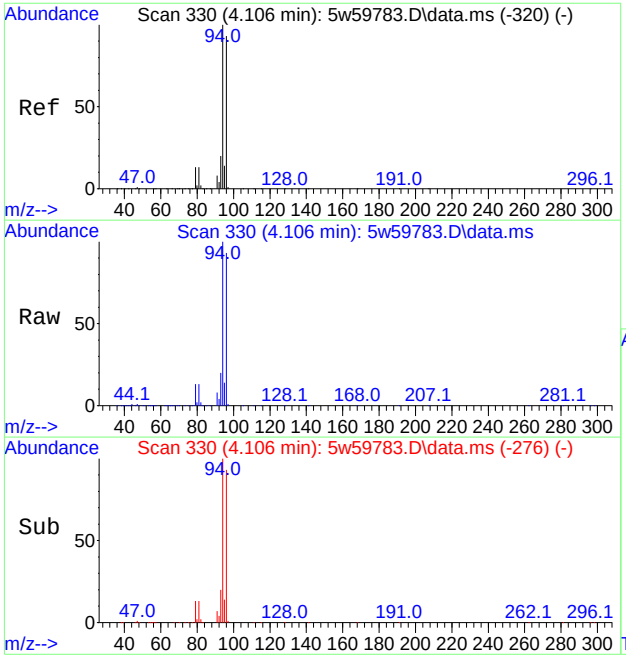


#13
n-BUTANE
Concen: 7.37 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 454503

Ion	Ratio	Lower	Upper
43	100		
58	12.6	0.0	42.6
44	4.9	0.0	34.9

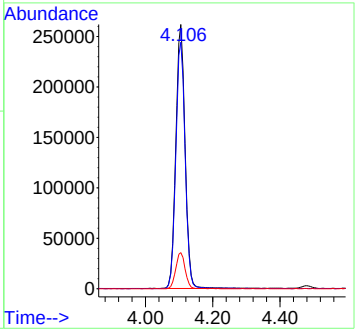


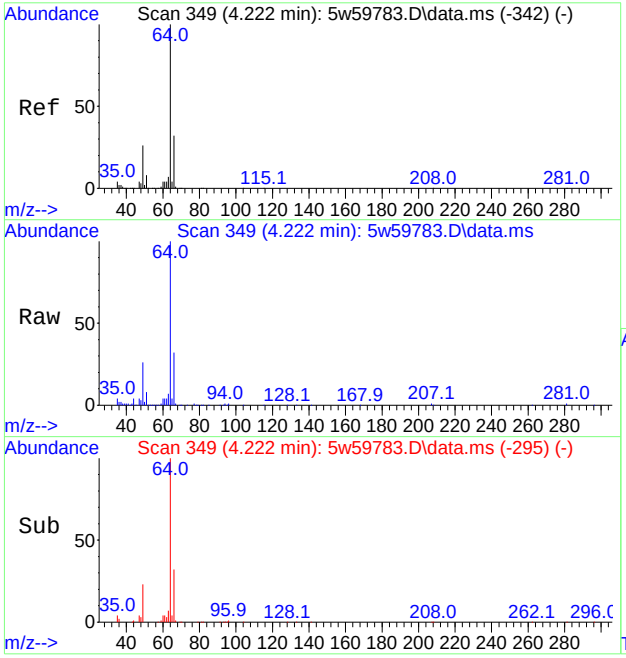


#14
BROMOMETHANE
Concen: 10.05 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 94 Resp: 500092

Ion	Ratio	Lower	Upper
94	100		
96	95.3	65.3	125.3
95	14.1	0.0	44.1

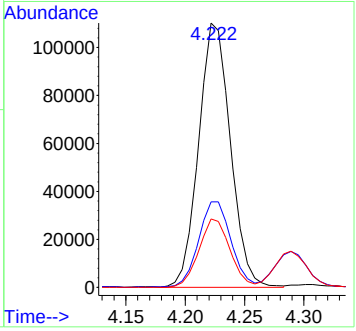


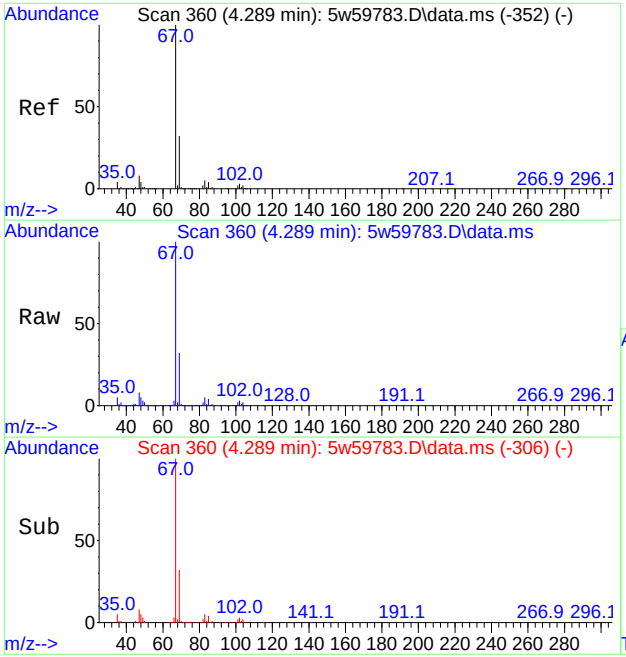


#15
CHLOROETHANE
Concen: 8.90 PPBV
RT: 4.222 min Scan# 349
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 64 Resp: 205309

Ion	Ratio	Lower	Upper
64	100		
66	33.1	3.1	63.1
49	25.3	0.0	55.3

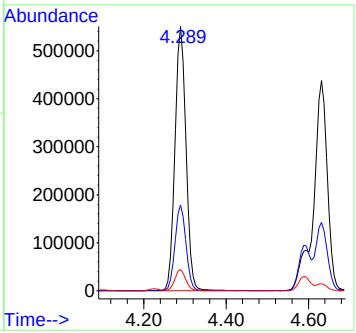


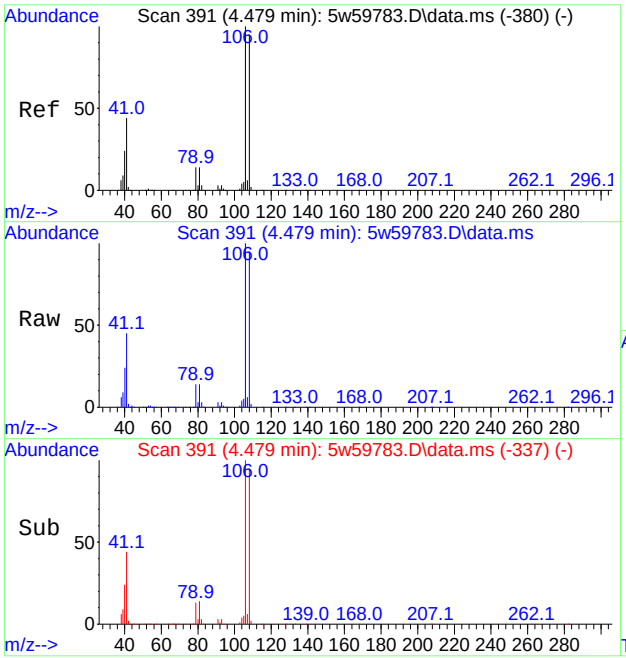


#16
DICHLOROFLUOROMETHANE
Concen: 8.67 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 1019855

Ion	Ratio	Lower	Upper
67	100		
69	32.5	22.7	42.3
47	8.0	5.6	10.4

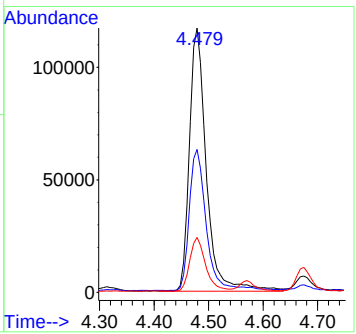


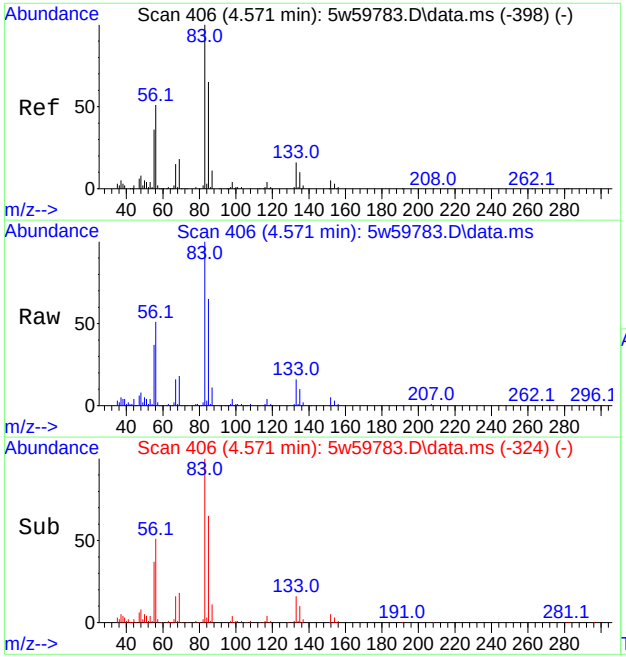


#17
ACETONITRILE
Concen: 7.21 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 252958

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.1	13.4	24.8

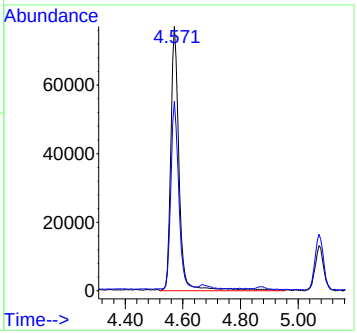


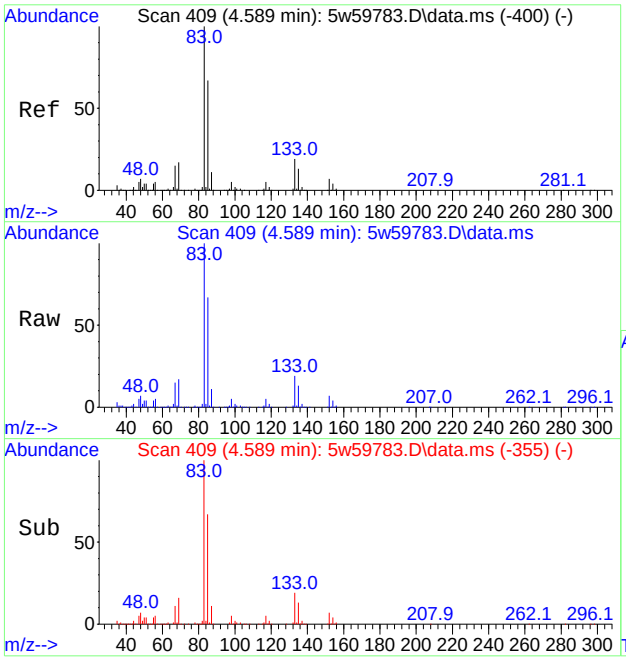


#18
ACROLEIN
Concen: 8.51 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 56 Resp: 155868

Ion	Ratio	Lower	Upper
56	100		
55	66.6	46.6	86.6

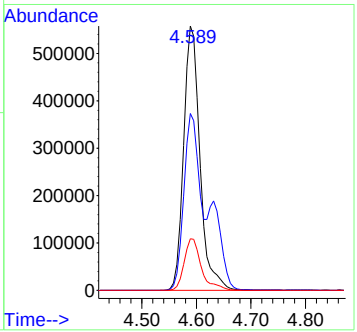


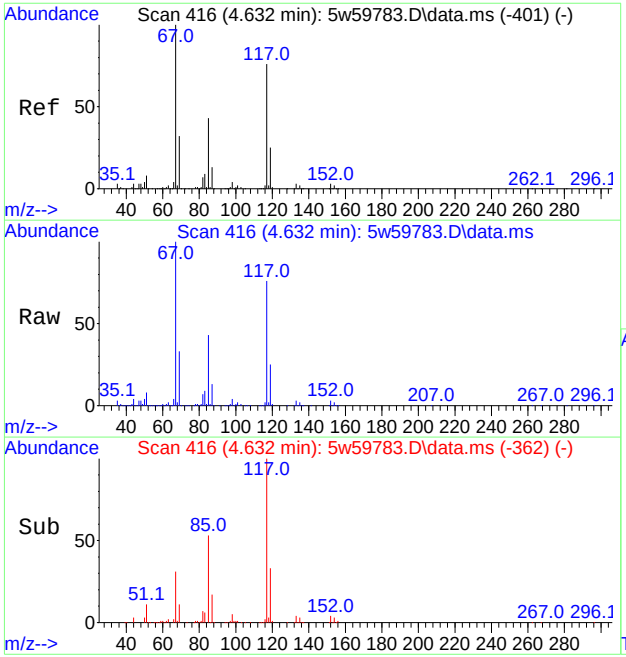


#19
FREON 123
Concen: 9.93 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1157483

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.0	94.0
133	20.7	0.0	50.7

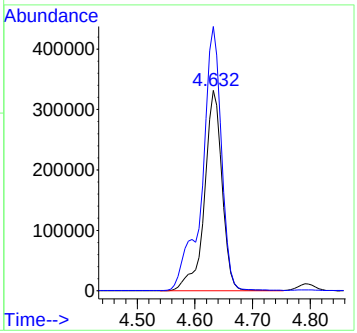


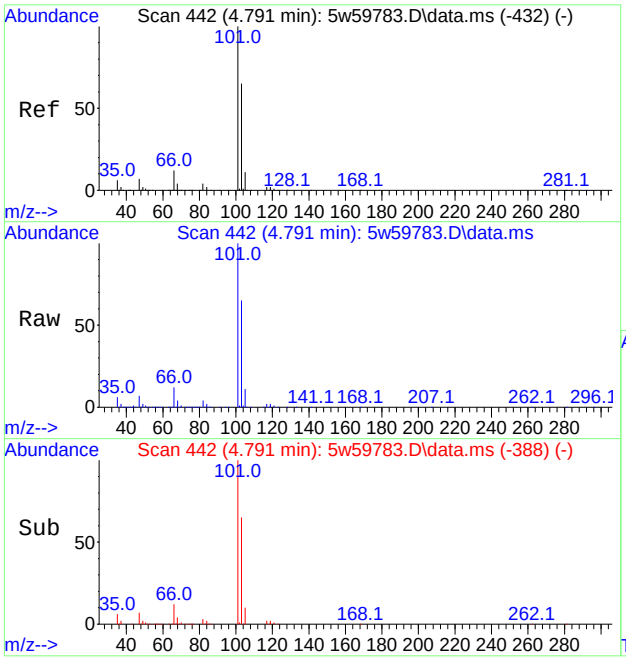


#20
FREON 123A
Concen: 9.69 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 701588

Ion	Ratio	Lower	Upper
117	100		
67	144.6	114.6	174.6

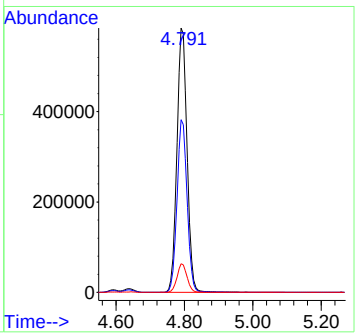




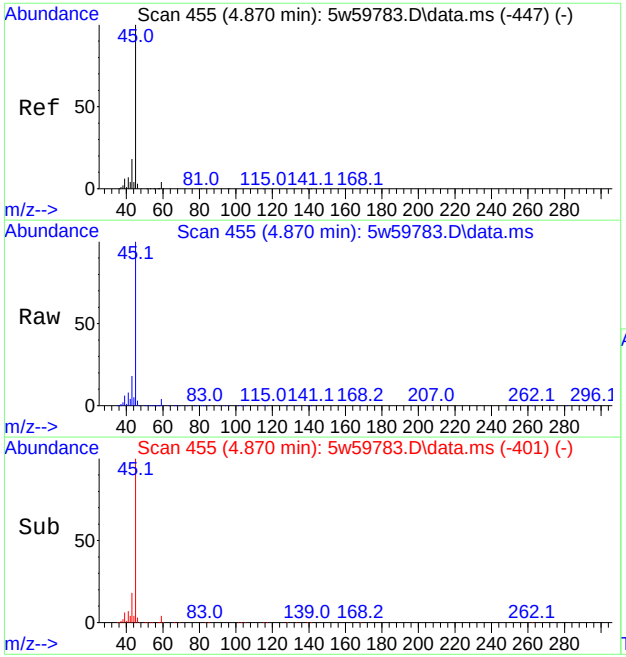
#21
TRICHLOROFLUOROMETHANE
Concen: 7.29 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:101 Resp: 1209415

Ion	Ratio	Lower	Upper
101	100		
103	65.0	35.0	95.0
105	10.7	0.0	40.7



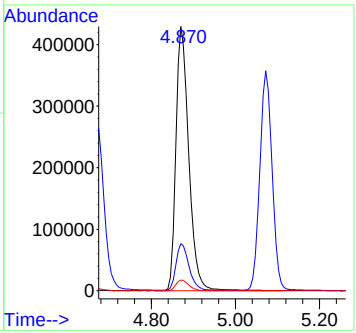
7.7.6

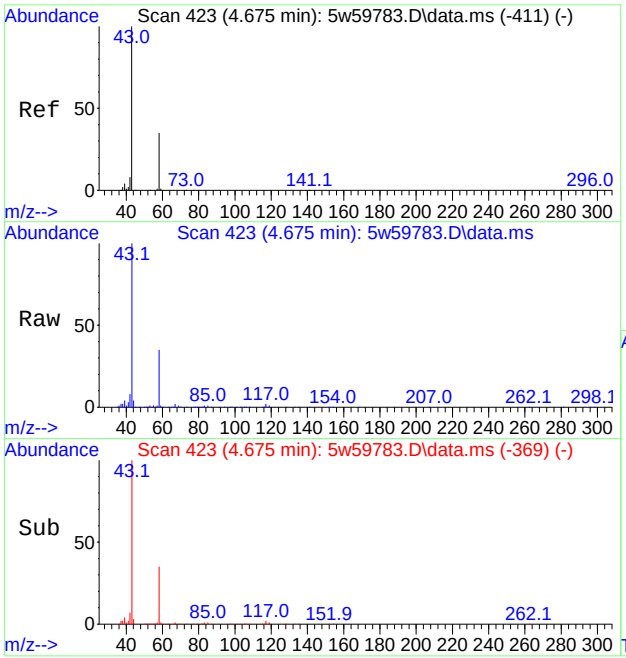


#22
ISOPROPYL ALCOHOL
Concen: 7.67 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 906732

Ion	Ratio	Lower	Upper
45	100		
43	17.8	0.0	47.8
59	4.1	0.0	34.1

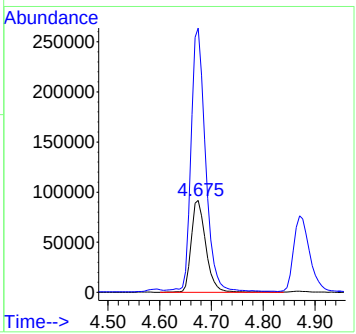


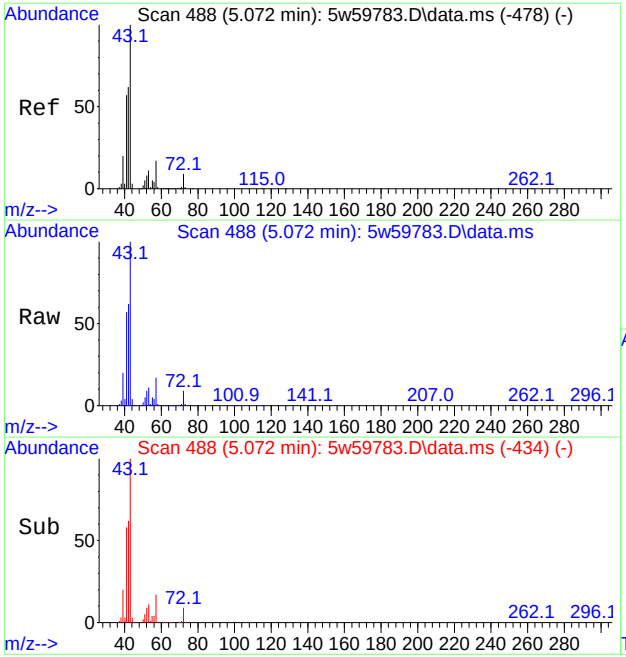


#23
ACETONE
Concen: 8.59 PPBV
RT: 4.675 min Scan# 423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 180987

Ion	Ratio	Lower	Upper
58	100		
43	282.3	252.1	312.1

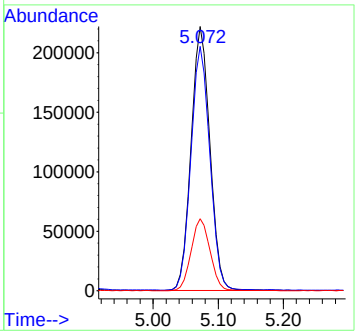


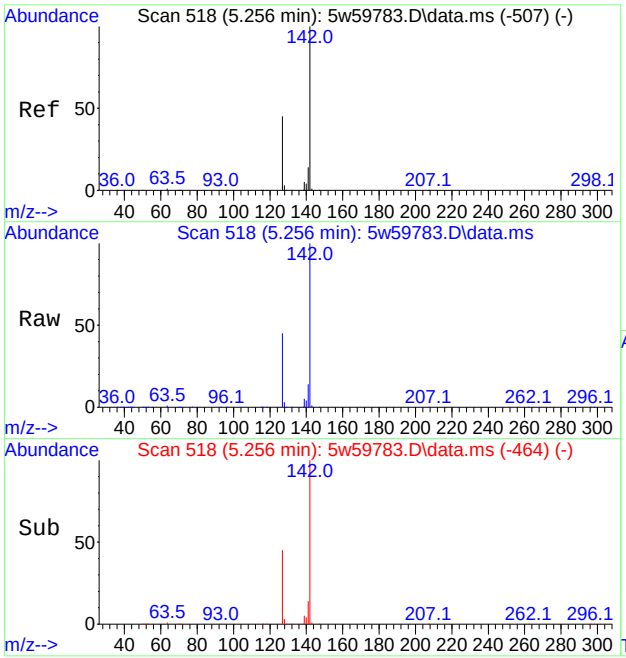


#24
PENTANE
Concen: 7.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 42 Resp: 444915

Ion	Ratio	Lower	Upper
42	100		
41	92.3	62.3	122.3
57	27.7	0.0	57.7

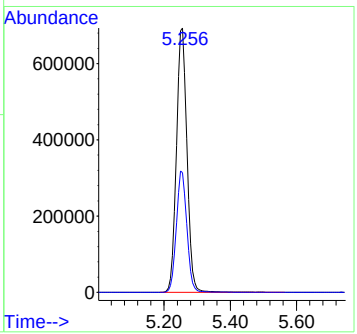


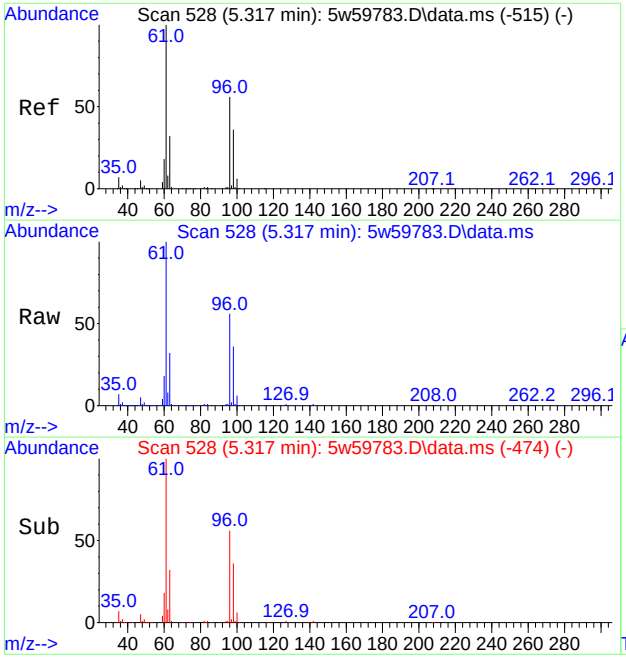


#25
IODOMETHANE
Concen: 10.06 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:142 Resp: 1538968

Ion	Ratio	Lower	Upper
142	100		
127	46.0	16.0	76.0

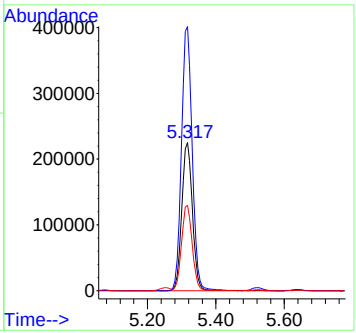


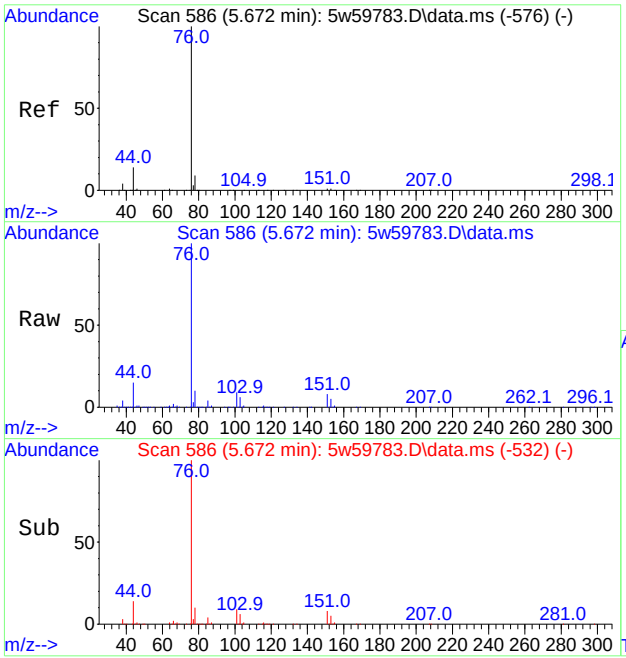


#26
1,1-DICHLOROETHYLENE
Concen: 8.97 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 488317

Ion	Ratio	Lower	Upper
96	100		
61	178.5	148.5	208.5
63	57.4	27.4	87.4

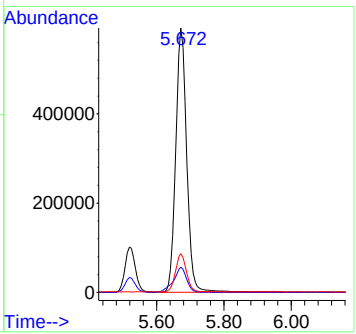


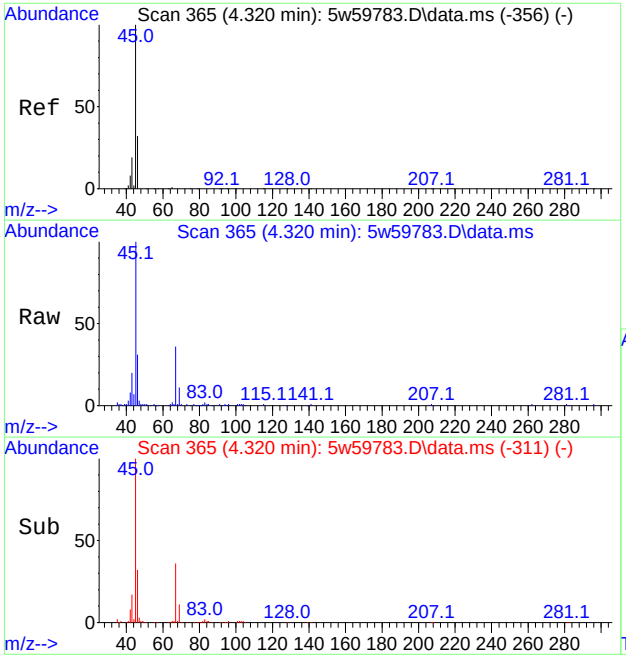


#27
CARBON DISULFIDE
Concen: 9.35 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 1343447

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

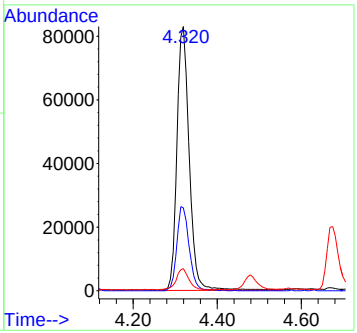


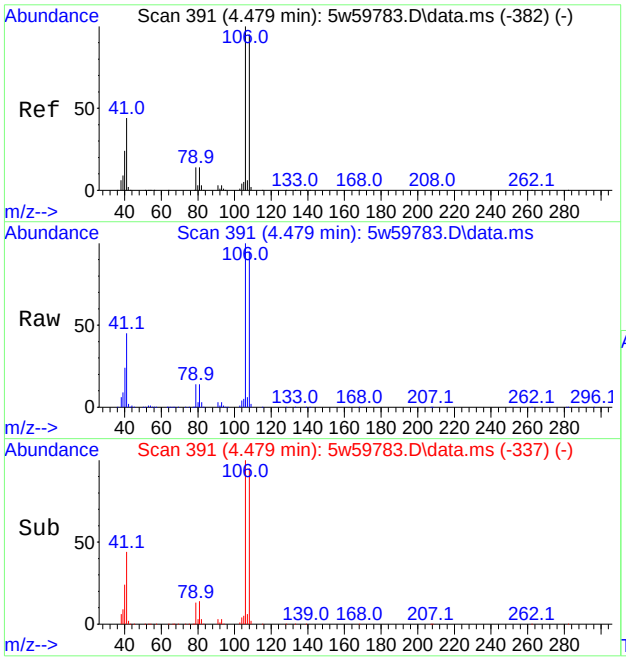


#28
ETHANOL
Concen: 7.22 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 168471

Ion	Ratio	Lower	Upper
45	100		
46	32.0	2.0	62.0
42	8.5	0.0	38.5

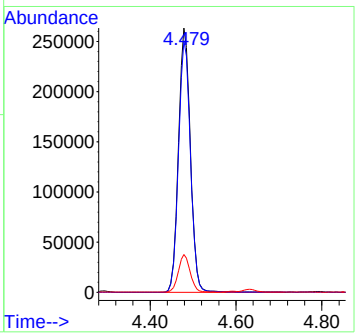


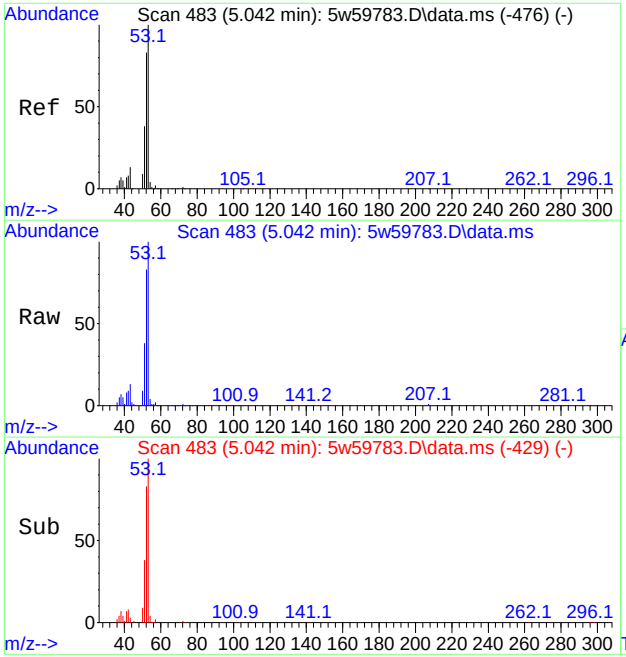


#29
BROMOETHENE
Concen: 10.65 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 508476

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	13.9	0.0	44.0

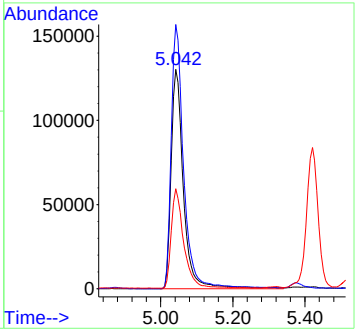


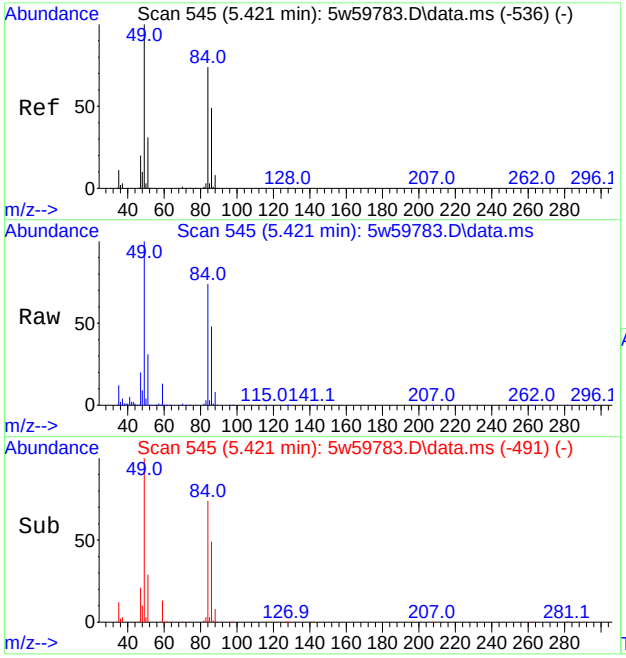


#30
ACRYLONITRILE
Concen: 8.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 310247

Ion	Ratio	Lower	Upper
52	100		
53	122.6	85.8	159.4
51	46.2	32.3	59.9

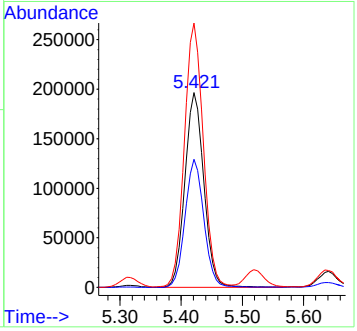


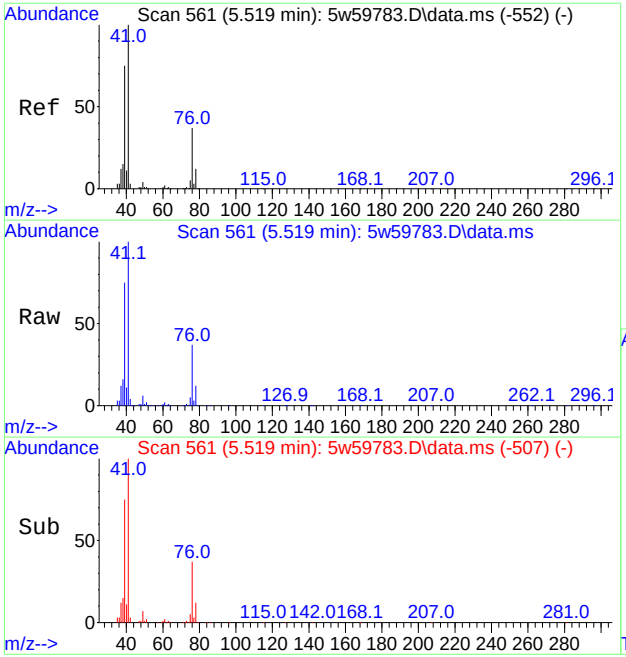


#31
METHYLENE CHLORIDE
Concen: 8.70 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 424759

Ion	Ratio	Lower	Upper
84	100		
86	65.2	35.2	95.2
49	135.3	105.3	165.3

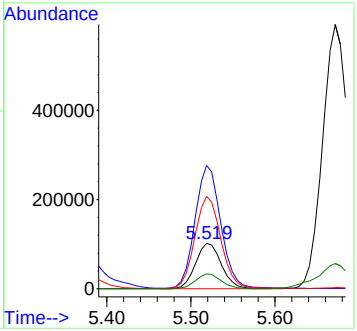


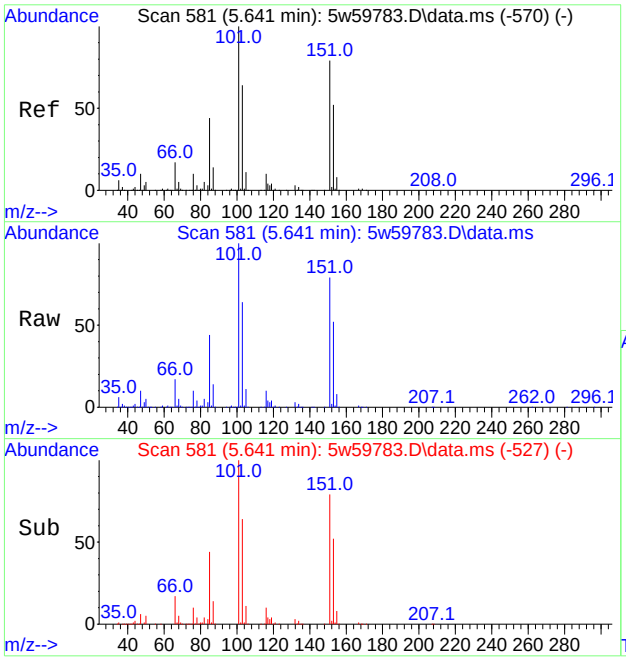


#32
3-CHLOROPROPENE
Concen: 9.74 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 218615

Ion	Ratio	Lower	Upper
76	100		
41	270.8	240.9	300.9
39	203.6	173.3	233.3
78	32.8	2.8	62.8

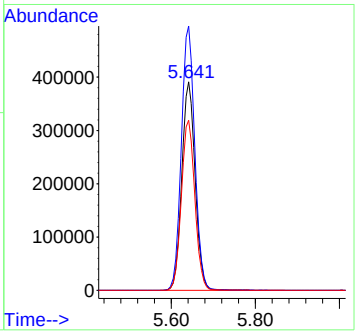


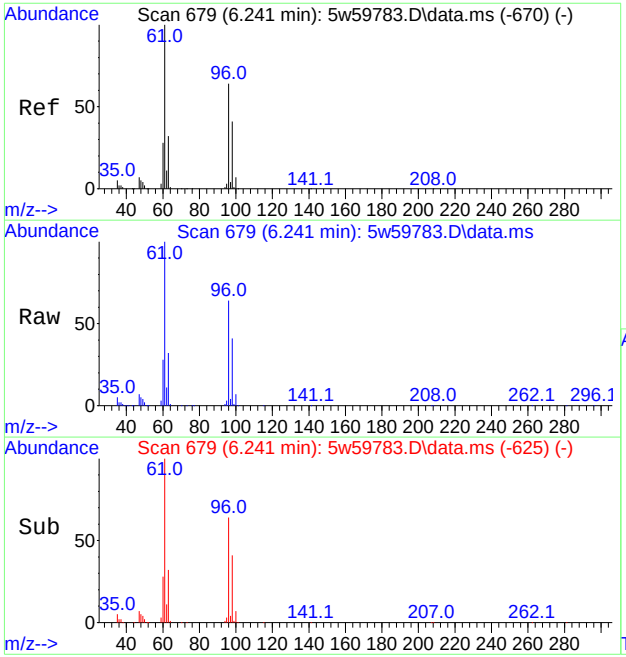


#33
FREON 113
Concen: 9.06 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:151 Resp: 865046

Ion	Ratio	Lower	Upper
151	100		
101	127.5	97.5	157.5
103	82.5	52.5	112.5

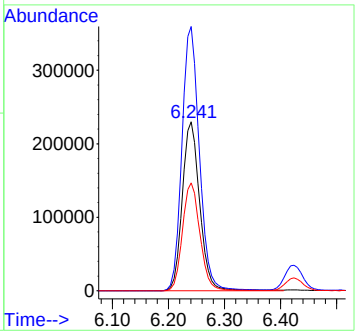


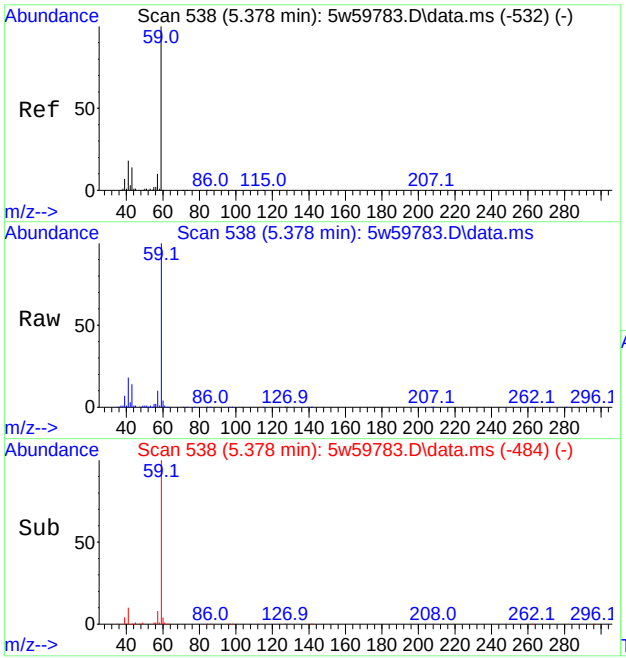


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 8.93 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 496473

Ion	Ratio	Lower	Upper
96	100		
61	156.4	126.4	186.4
98	64.1	34.1	94.1

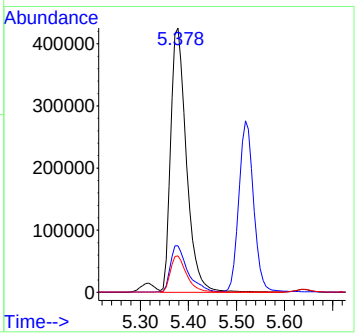


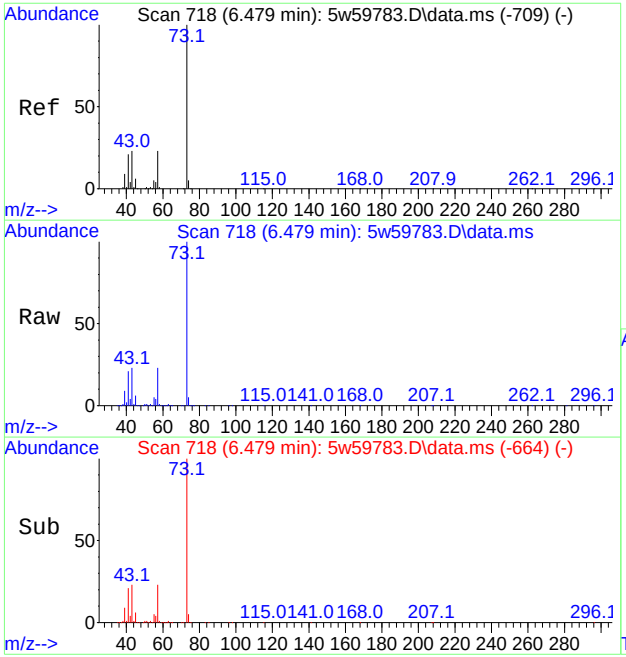


#35
TERTIARY BUTYL ALCOHOL
Concen: 8.31 PPBV
RT: 5.378 min Scan# 538
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 968852

Ion	Ratio	Lower	Upper
59	100		
41	19.3	0.0	49.3
43	14.1	0.0	44.1

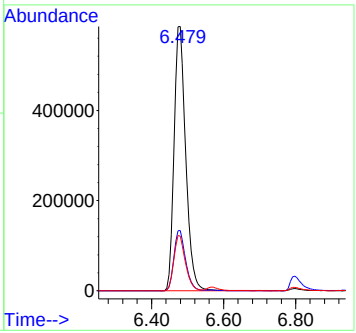


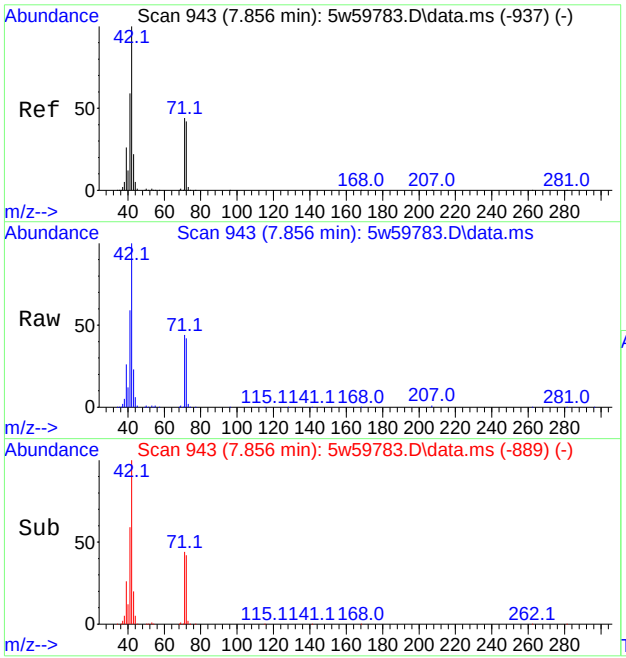


#36
METHYL TERTIARY BUTYL ETHER
Concen: 9.62 PPBV
RT: 6.479 min Scan# 718
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 73 Resp: 1323434

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.6	0.0	50.6

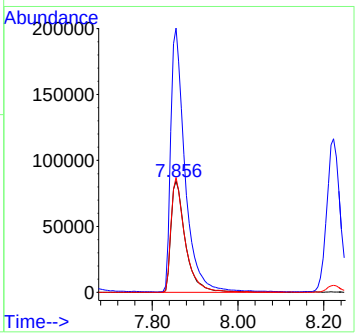


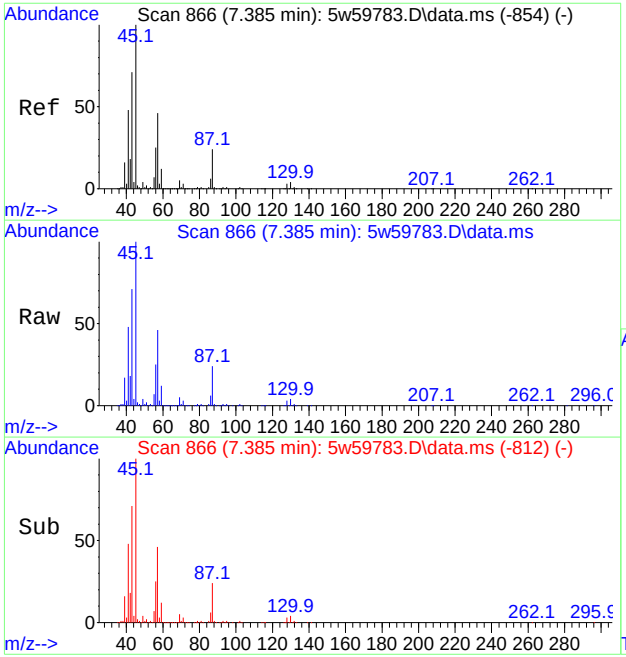


#37
TETRAHYDROFURAN
Concen: 10.87 PPBV
RT: 7.856 min Scan# 943
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 199227

Ion	Ratio	Lower	Upper
72	100		
42	232.4	202.4	262.4
71	101.1	71.1	131.1

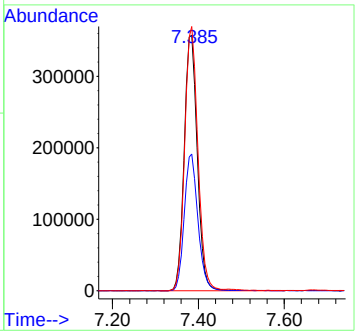


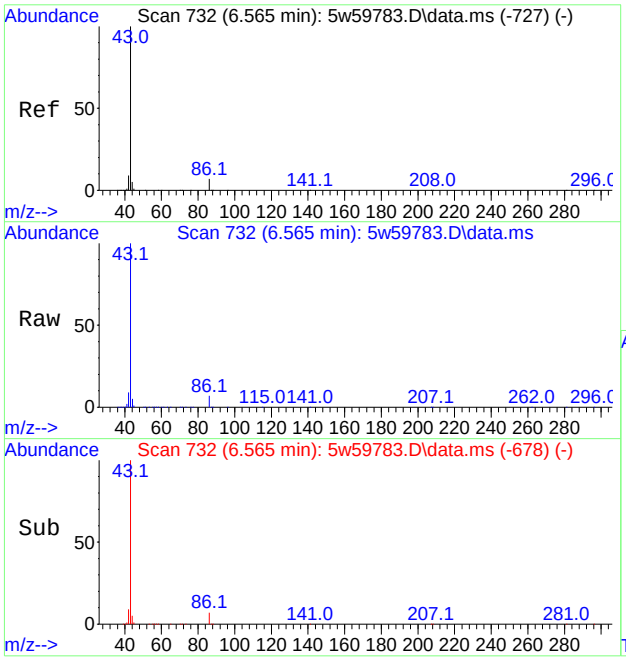


#38
HEXANE
Concen: 9.88 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 758015

Ion	Ratio	Lower	Upper
57	100		
56	55.9	25.9	85.9
41	104.7	74.7	134.7

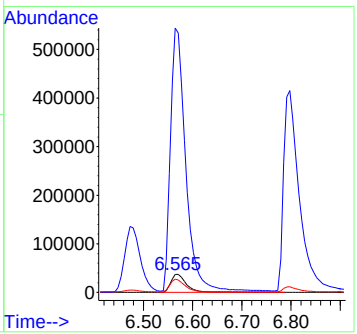


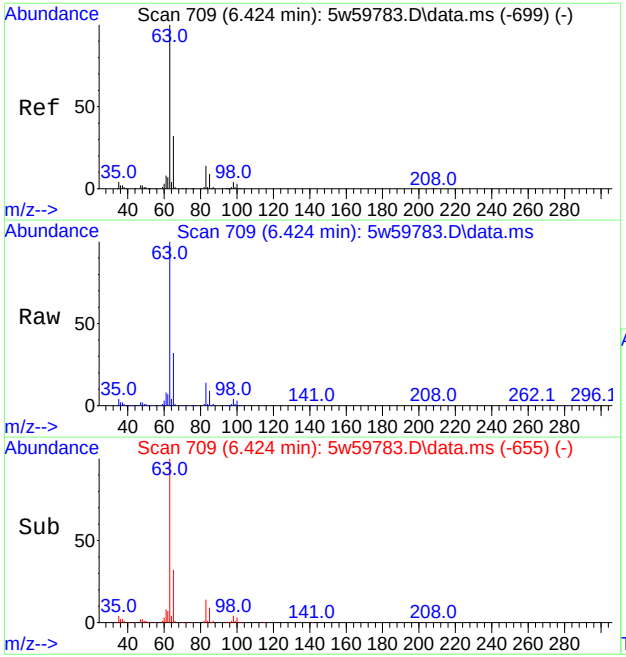


#39
VINYL ACETATE
Concen: 9.01 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 86 Resp: 82624

Ion	Ratio	Lower	Upper
86	100		
43	1409.7	1379.7	1439.7
44	66.9	36.9	96.9

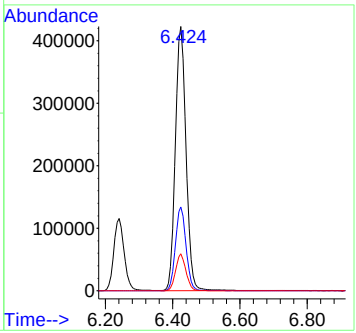


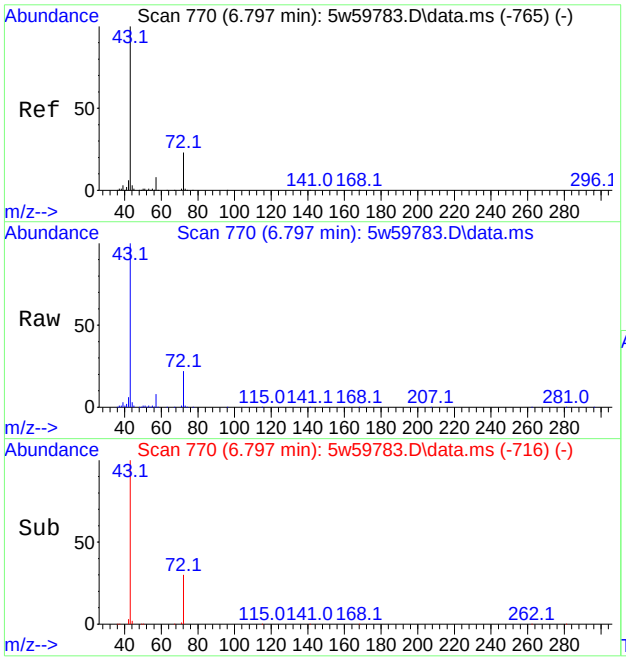


#40
1,1-DICHLOROETHANE
Concen: 9.18 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 931030

Ion	Ratio	Lower	Upper
63	100		
65	31.7	1.7	61.7
83	13.5	0.0	43.5

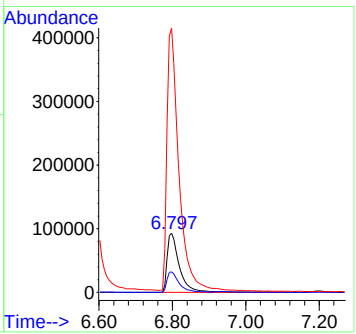


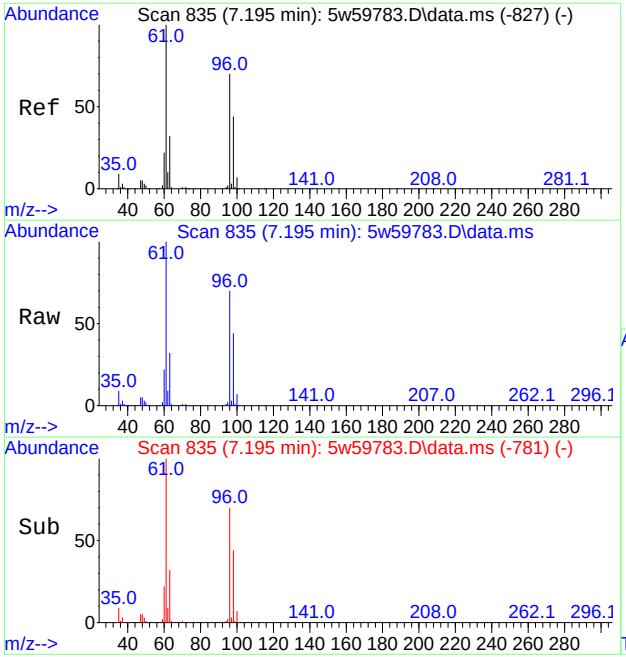


#41
METHYL ETHYL KETONE
Concen: 11.31 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 216147

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	445.9	415.9	475.9

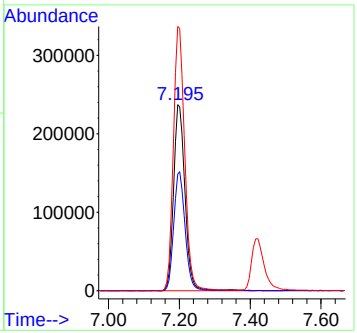


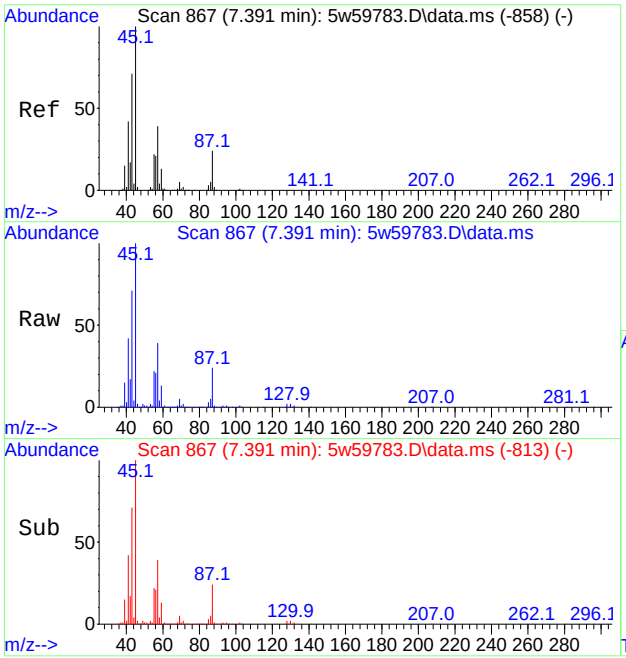


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.24 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 529578

Ion	Ratio	Lower	Upper
96	100		
98	64.0	34.0	94.0
61	141.5	111.5	171.5

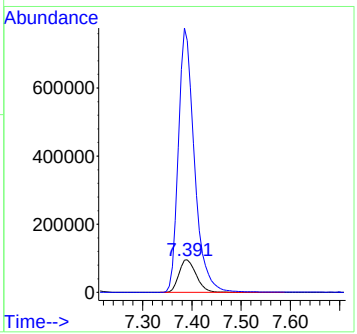


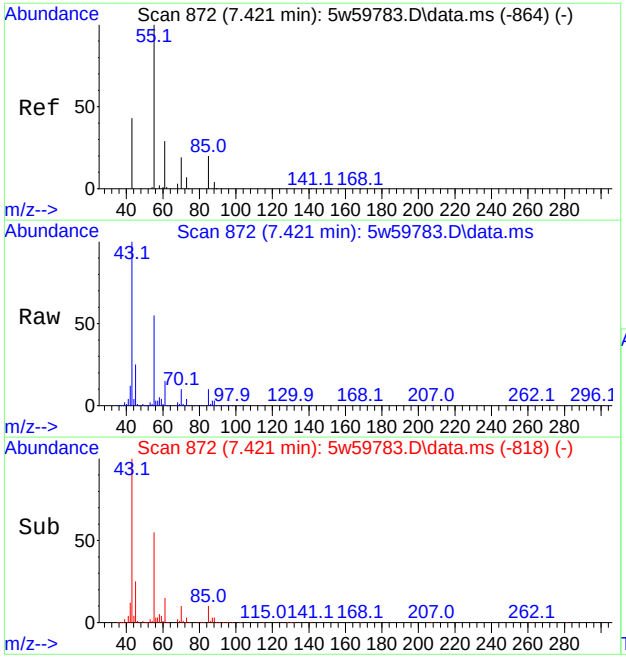


#43
DIISOPROPYL ETHER
Concen: 11.29 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 234936

Ion	Ratio	Lower	Upper
59	100		
45	750.9	720.9	780.9

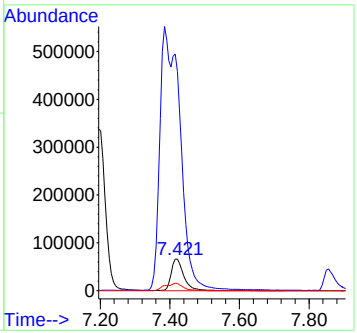


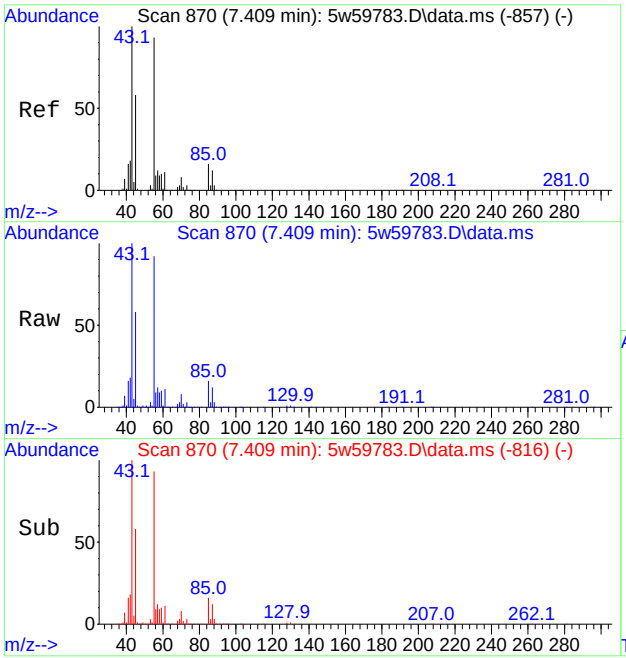


#44
ETHYL ACETATE
Concen: 10.80 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 61 Resp: 169787

Ion	Ratio	Lower	Upper
61	100		
43	590.5	581.3	641.3
88	34.5	4.5	64.5

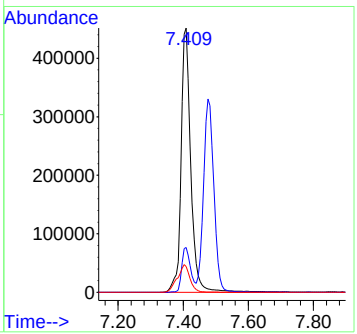


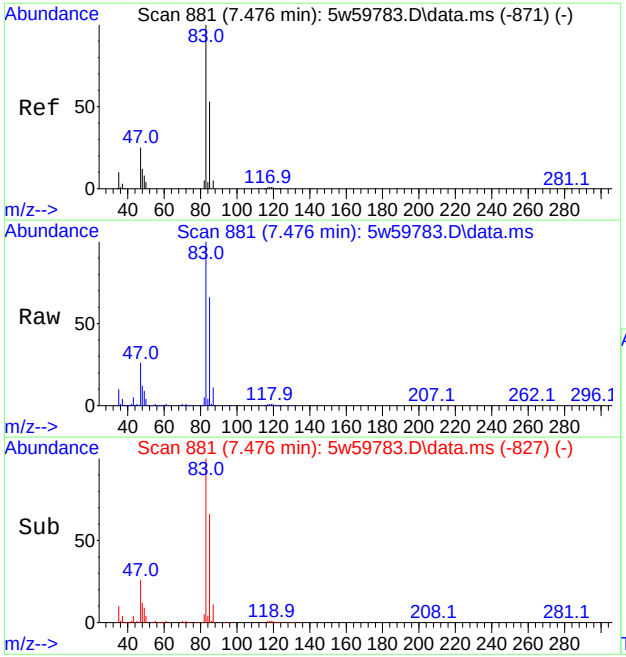


#45
METHYL ACRYLATE
Concen: 10.40 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 948651

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.5	9.4	17.6

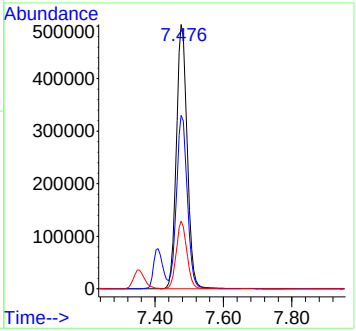


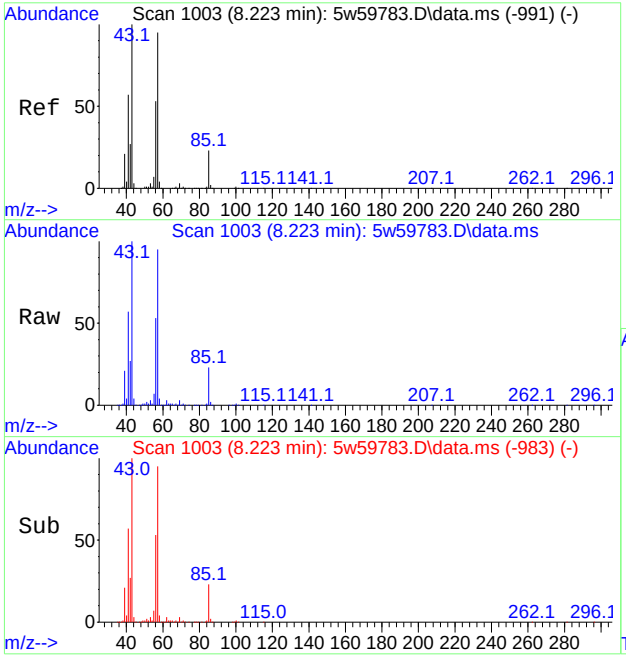


#46
CHLOROFORM
Concen: 9.51 PPBV
RT: 7.476 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1113306

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.5	95.5
47	25.2	0.0	55.2

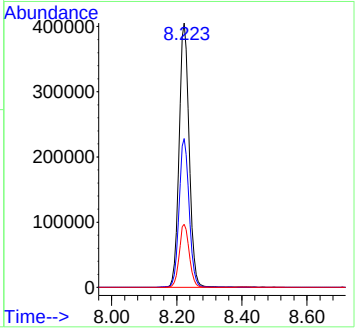


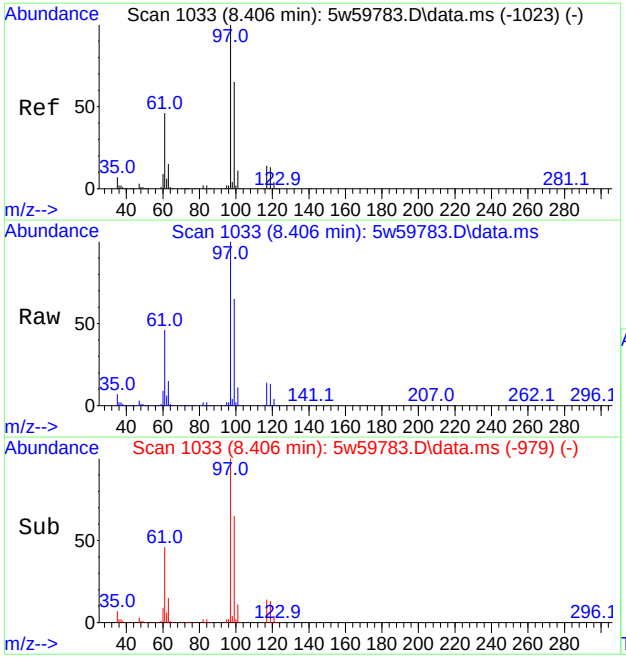


#47
2,4-DIMETHYLPENTANE
Concen: 9.73 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 877406

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.8	0.0	53.8

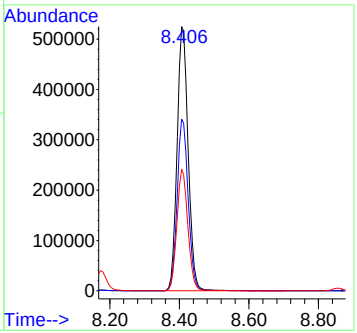


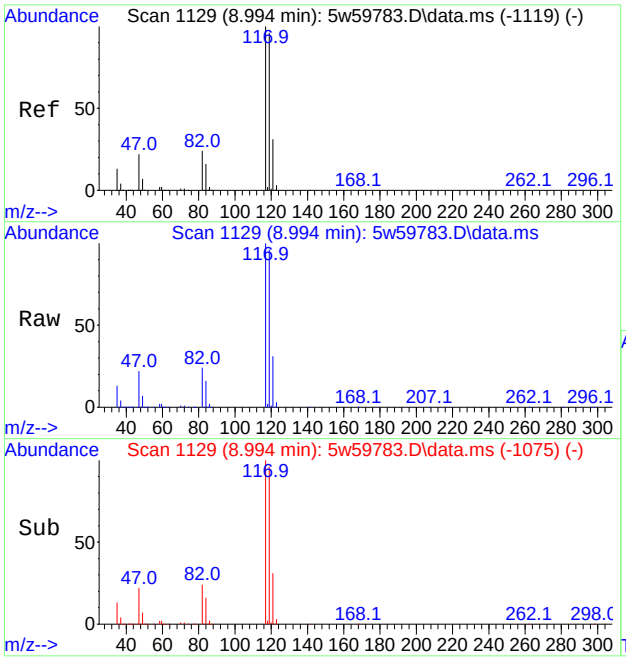


#48
1,1,1-TRICHLOROETHANE
Concen: 9.11 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 97 Resp: 1165134

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.8	94.8
61	45.8	15.8	75.8

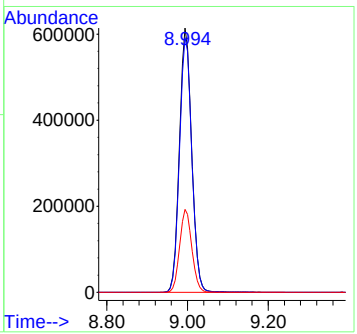


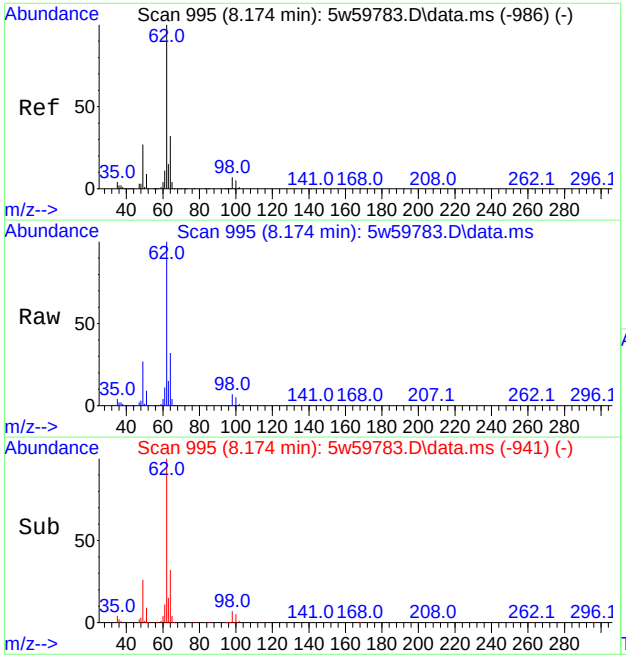


#49
CARBON TETRACHLORIDE
Concen: 9.17 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1296040

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.3	1.3	61.3

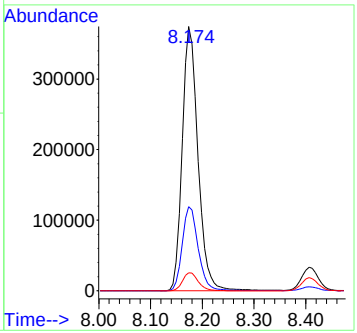


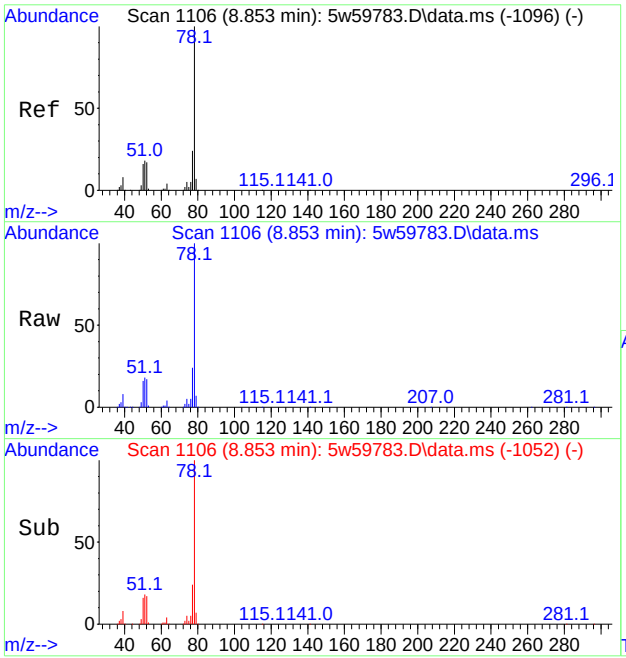


#50
1,2-DICHLOROETHANE
Concen: 9.55 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 793795

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.9	0.0	36.9

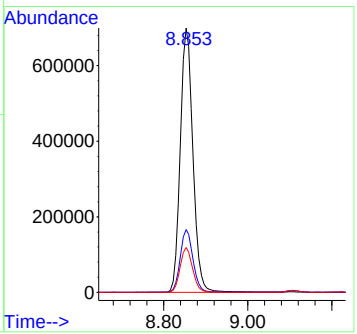


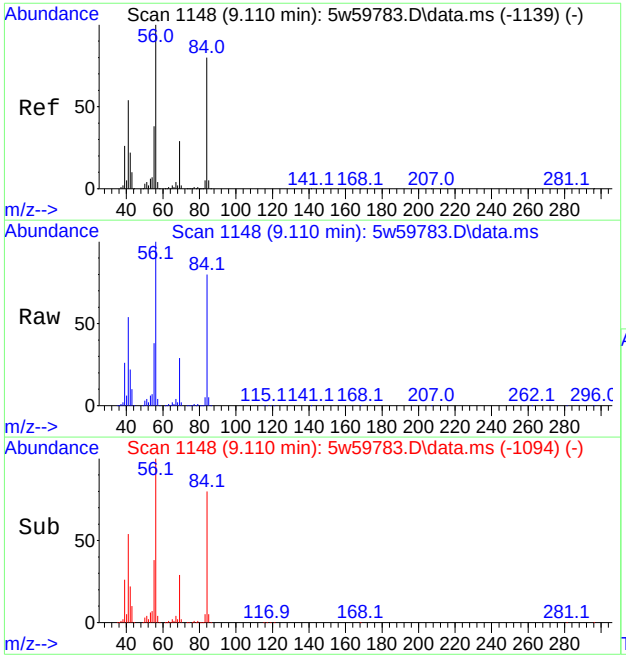


#52
BENZENE
Concen: 10.93 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 78 Resp: 1461752

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.8
52	16.9	0.0	46.9

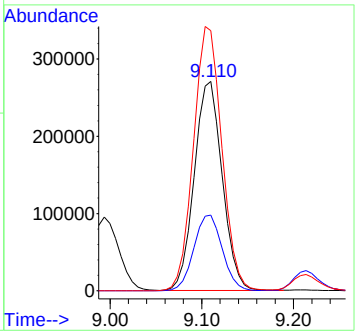


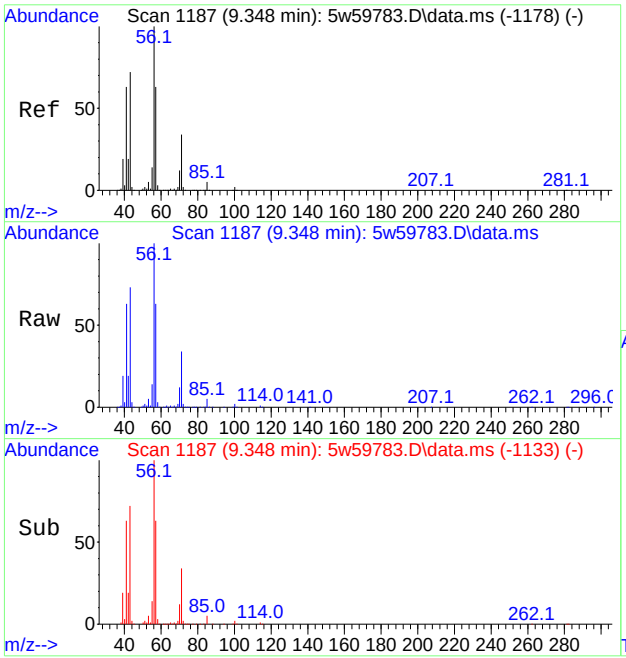


#53
CYCLOHEXANE
Concen: 10.80 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 573806

Ion	Ratio	Lower	Upper
84	100		
69	36.9	6.9	66.9
56	128.2	98.2	158.2

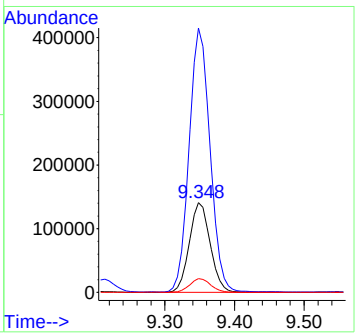


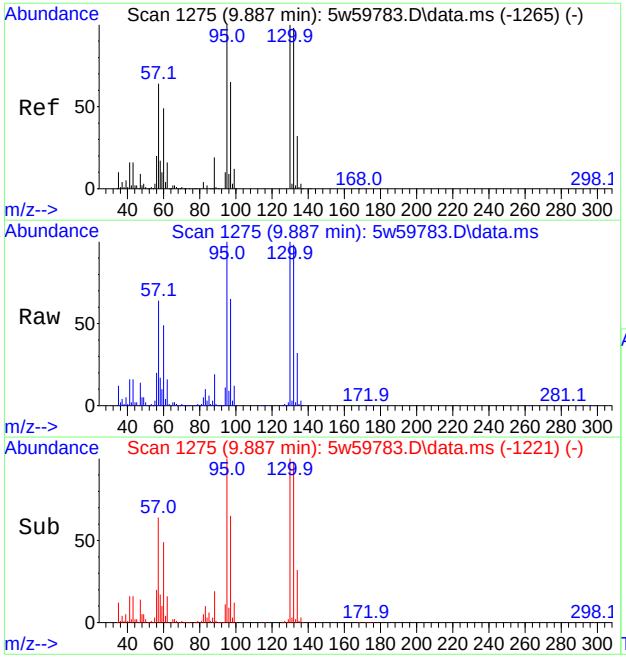


#54
2,3-DIMETHYLPENTANE
Concen: 10.99 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 71 Resp: 294377

Ion	Ratio	Lower	Upper
71	100		
56	294.6	264.6	324.6
85	15.3	0.0	45.3

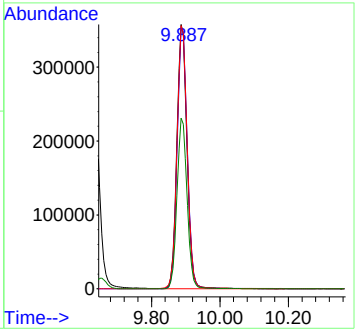


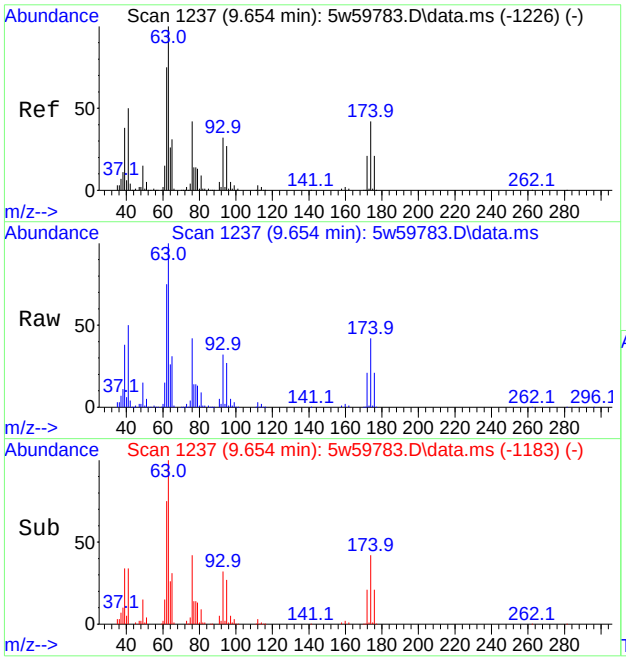


#55
TRICHLOROETHYLENE
Concen: 10.30 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 95 Resp: 733457

Ion	Ratio	Lower	Upper
95	100		
132	99.0	69.0	129.0
130	100.6	70.6	130.6
97	64.6	34.6	94.6

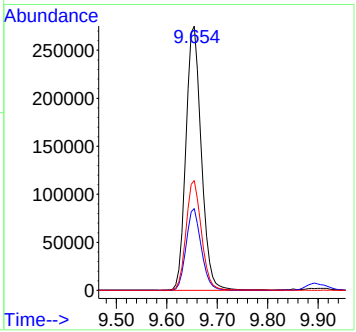


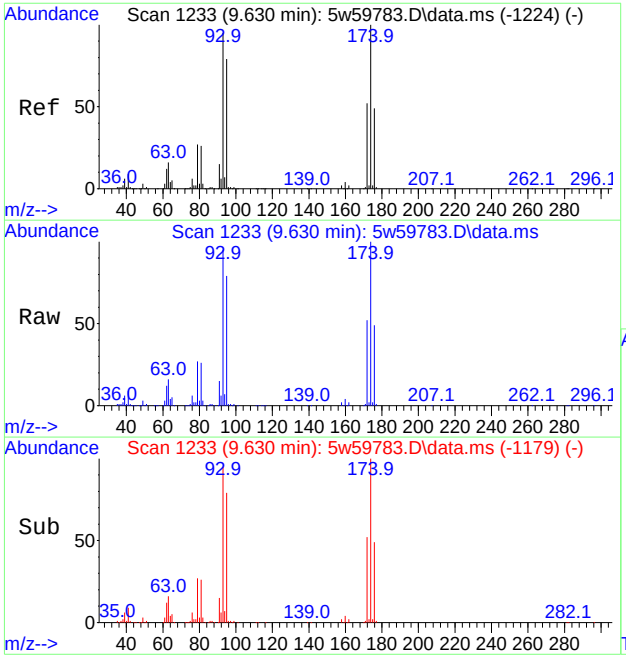


#56
1,2-DICHLOROPROPANE
Concen: 10.35 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 587338

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.5	11.5	71.5

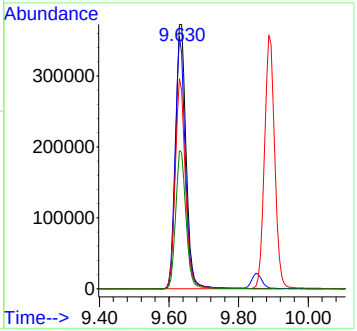


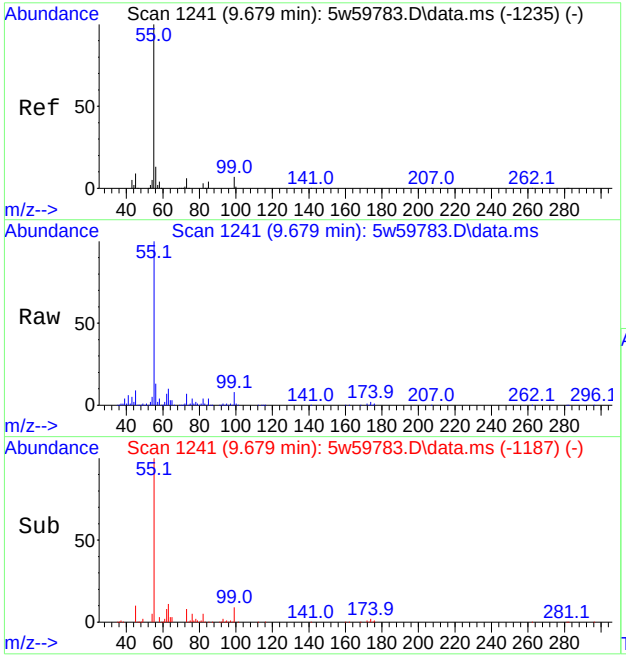


#57
DIBROMOMETHANE
Concen: 9.96 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:174 Resp: 777595

Ion	Ratio	Lower	Upper
174	100		
93	92.8	65.0	120.6
95	77.8	54.5	101.1
172	51.9	36.3	67.5

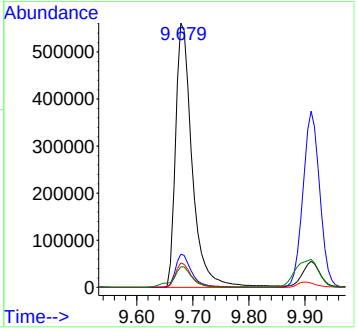


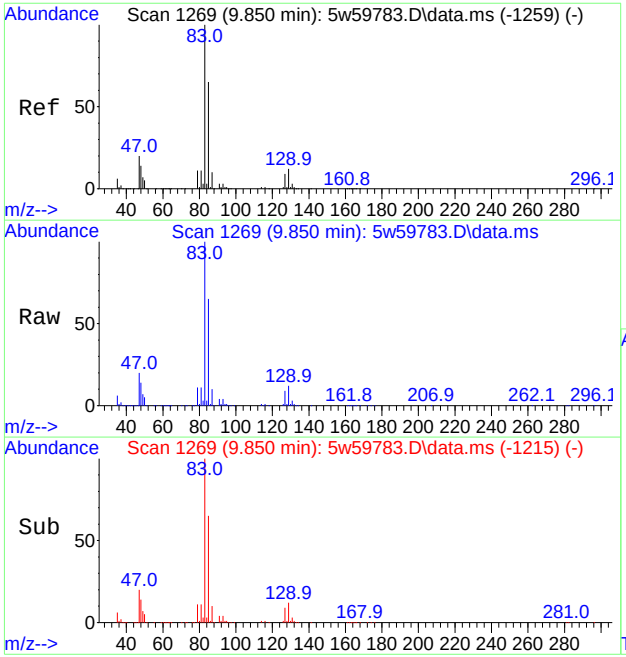


#58
ETHYL ACRYLATE
Concen: 11.15 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 1150308

Ion	Ratio	Lower	Upper
55	100		
56	12.3	8.6	16.0
45	9.4	6.6	12.2
99	9.2	6.4	12.0

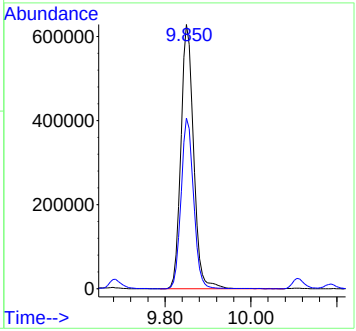


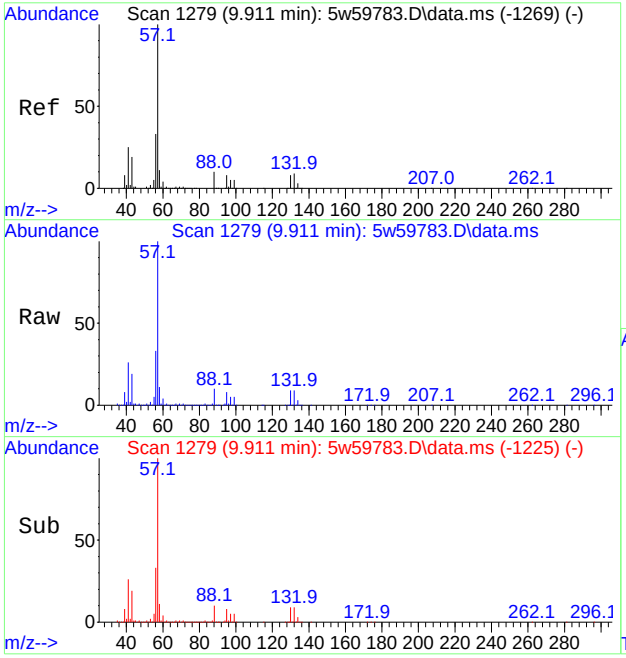


#59
BROMODICHLOROMETHANE
Concen: 10.19 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1291376

Ion	Ratio	Lower	Upper
83	100		
85	63.4	33.4	93.4

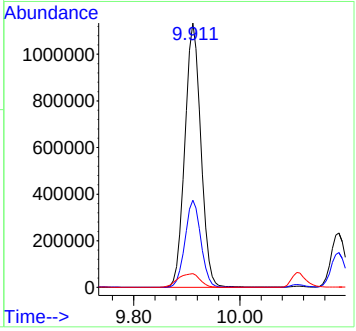


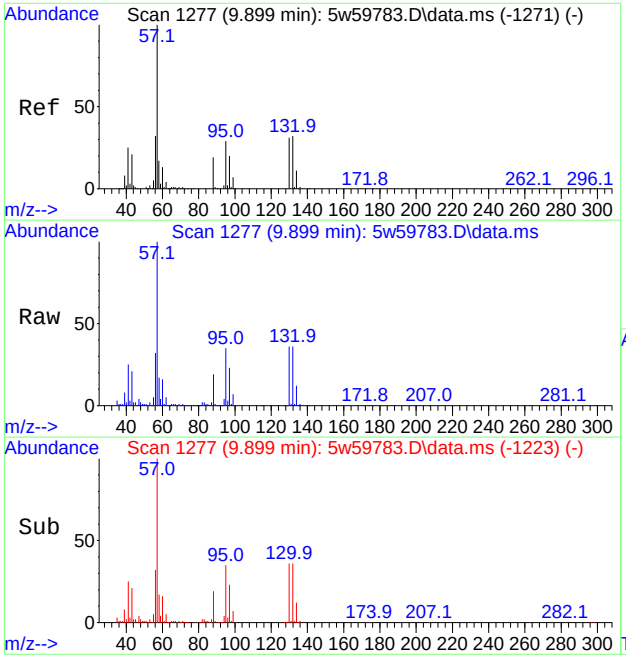


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.46 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 2382864

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.3	0.0	37.3

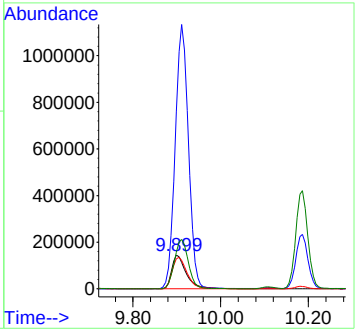


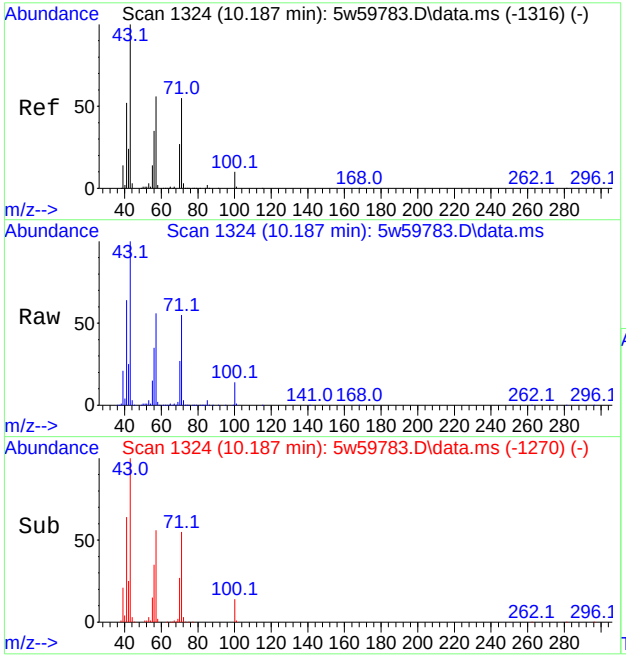


#61
1,4-DIOXANE
Concen: 12.16 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 88 Resp: 335180

Ion	Ratio	Lower	Upper
88	100		
57	524.2	494.2	554.2
58	88.9	58.9	118.9
43	108.3	78.3	138.3

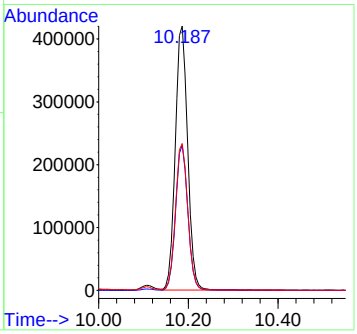


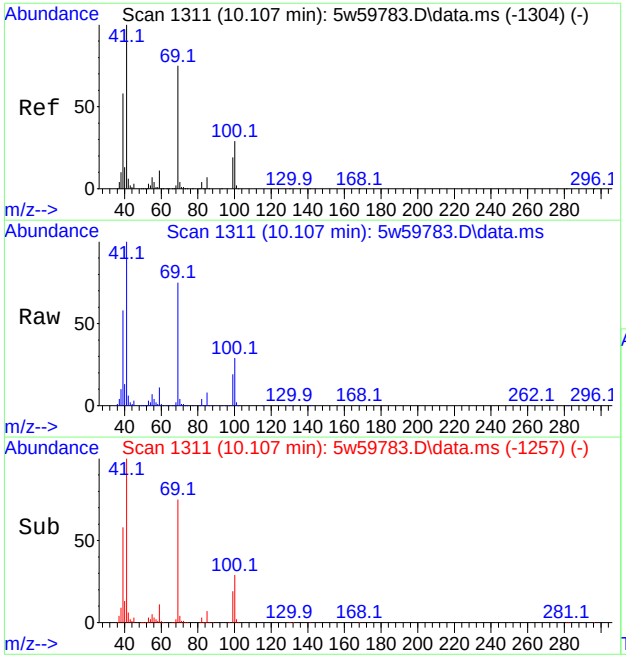


#62
HEPTANE
Concen: 9.62 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 809108

Ion	Ratio	Lower	Upper
43	100		
71	54.5	24.5	84.5
57	56.2	26.2	86.2

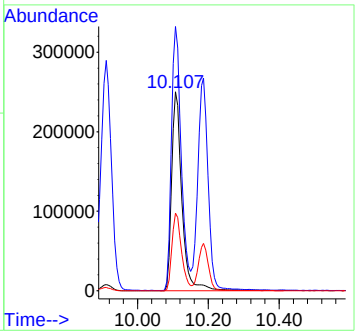


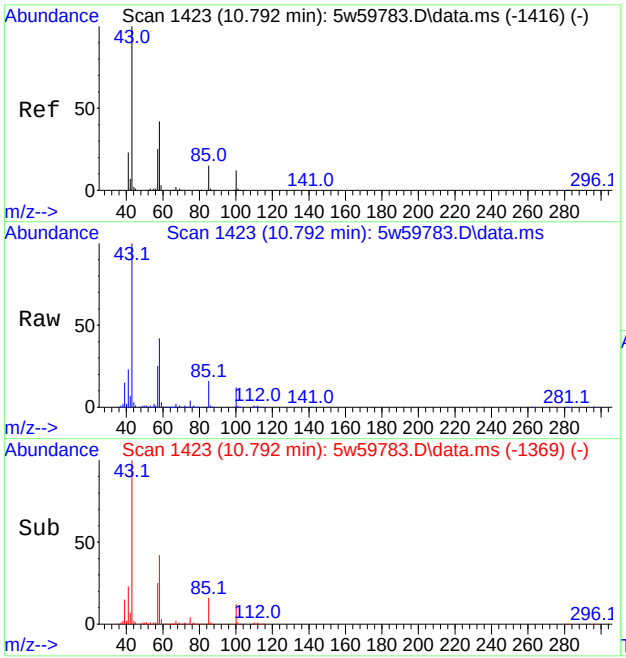


#63
METHYL METHACRYLATE
Concen: 12.20 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 505563

Ion	Ratio	Lower	Upper
69	100		
41	125.3	95.3	155.3
100	36.3	6.3	66.3

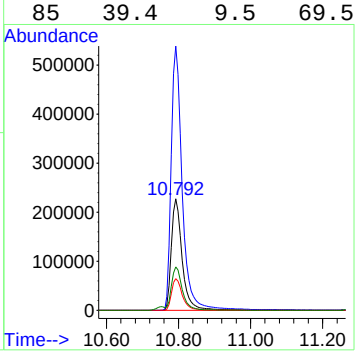


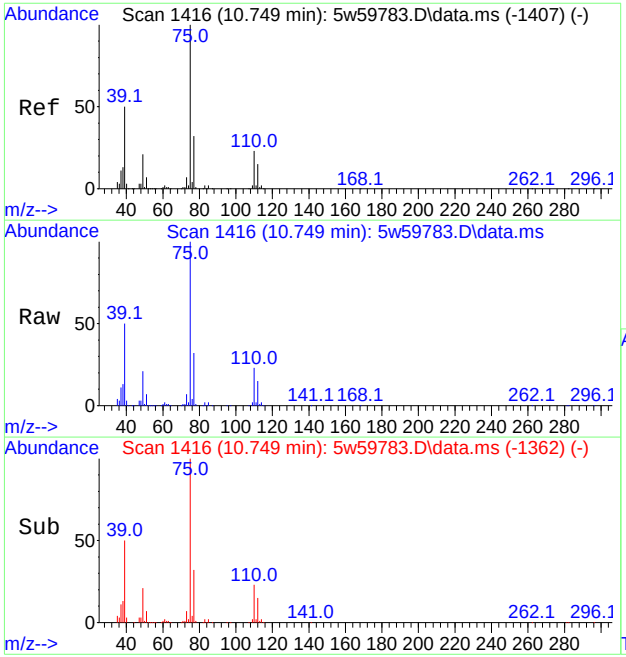


#64
METHYL ISOBUTYL KETONE
Concen: 11.29 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 480676

Ion	Ratio	Lower	Upper
58	100		
43	239.2	209.1	269.1
100	28.8	0.0	58.8
85	39.4	9.5	69.5

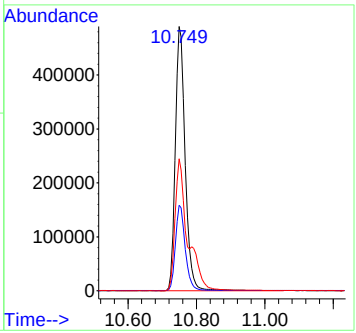


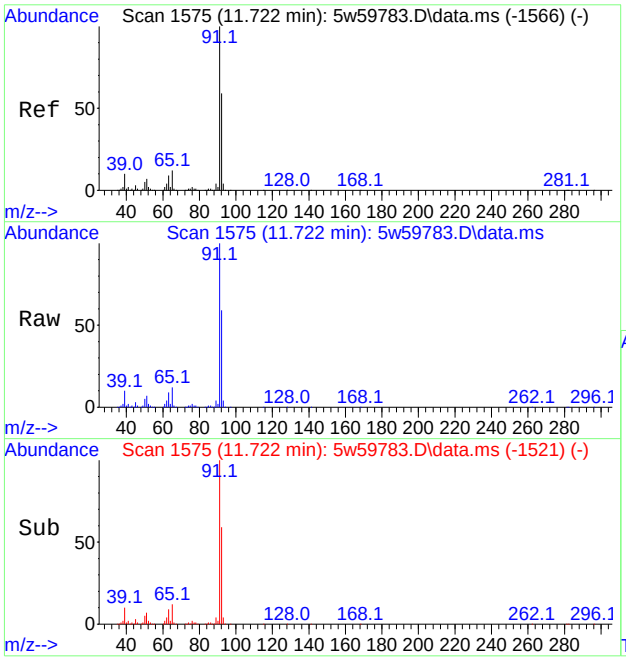


#65
cis-1,3-DICHLOROPROPENE
Concen: 11.23 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 988291

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.3	19.2	79.2

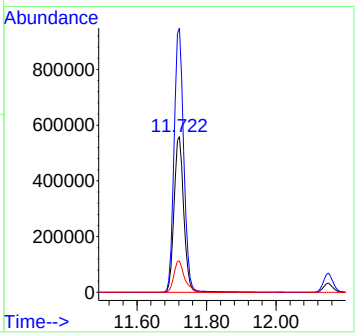


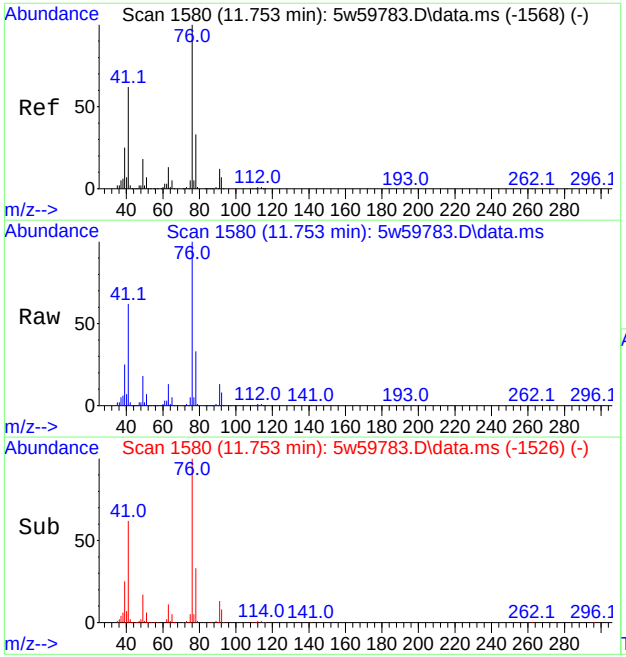


#66
TOLUENE
Concen: 11.29 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 92 Resp: 1078428

Ion	Ratio	Lower	Upper
92	100		
91	170.1	140.1	200.1
65	23.1	0.0	53.1

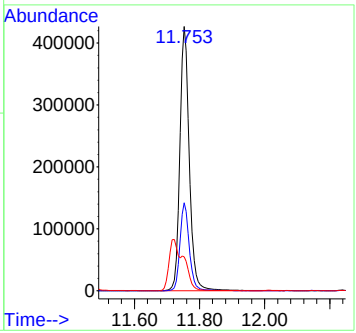


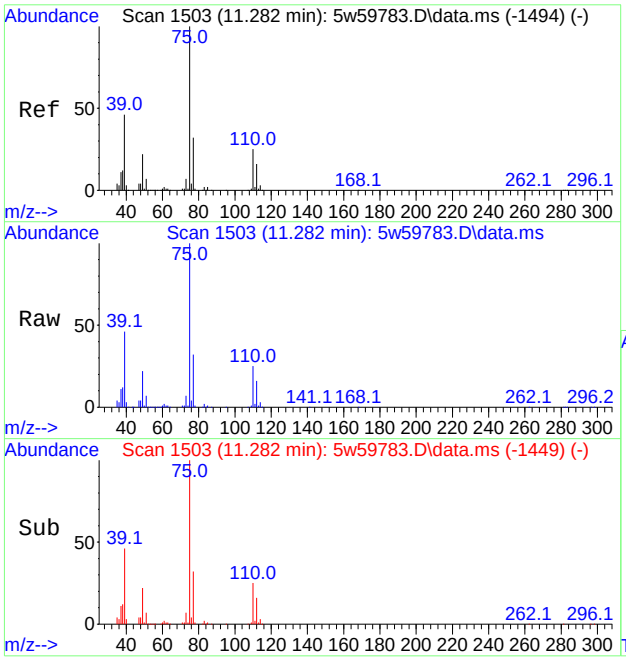


#67
1,3-DICHLOROPROPANE
Concen: 10.80 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 866163

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	10.1	7.2	13.4

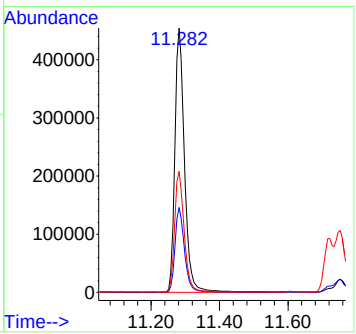


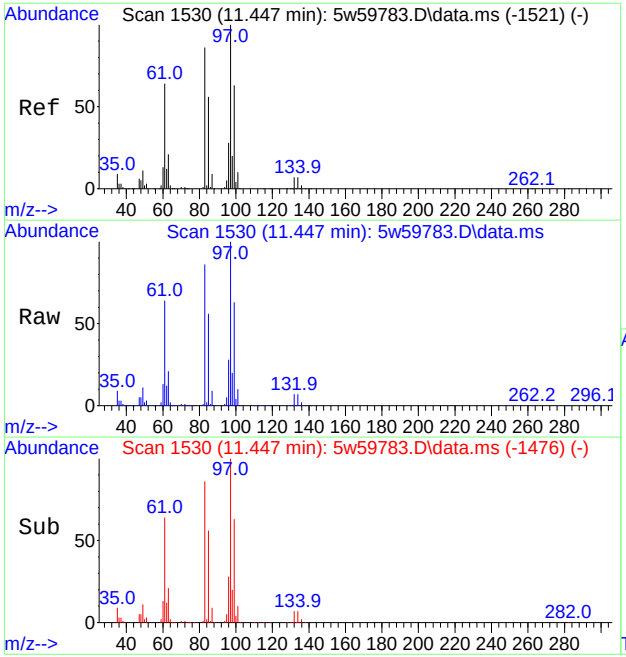


#68
trans-1,3-DICHLOROPROPENE
Concen: 11.02 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 890794

Ion	Ratio	Lower	Upper
75	100		
77	31.6	1.7	61.7
39	46.1	16.2	76.2

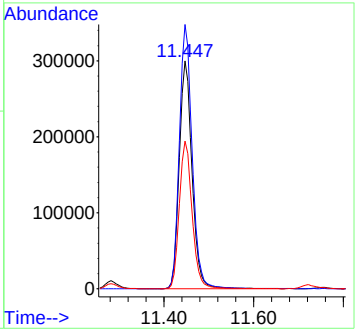


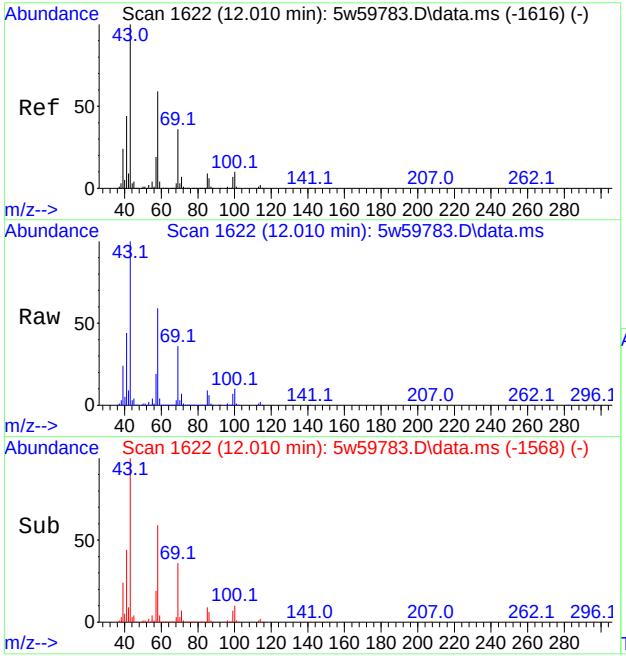


#69
1,1,2-TRICHLOROETHANE
Concen: 11.35 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 593800

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.3	35.3	95.3

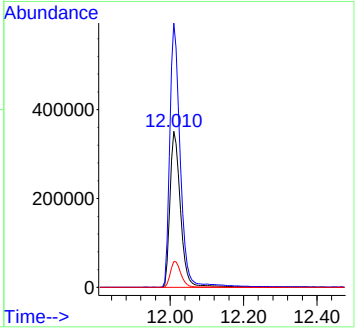


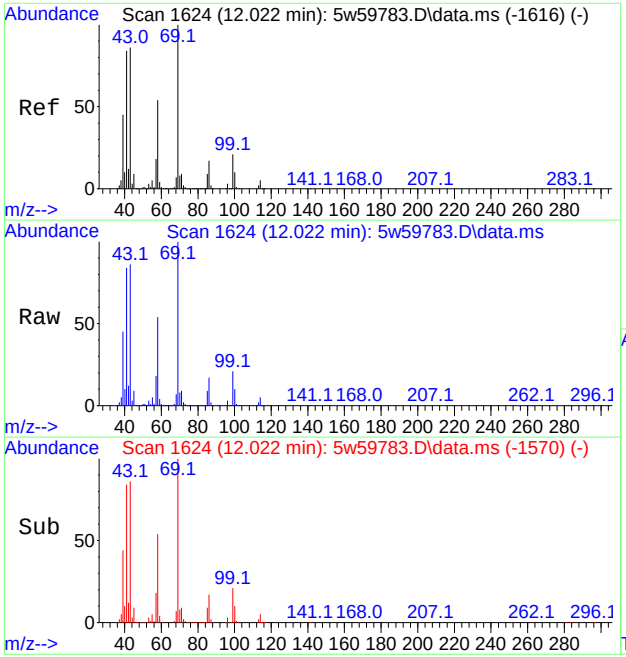


#71
2-HEXANONE
Concen: 12.76 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 708433

Ion	Ratio	Lower	Upper
58	100		
43	167.2	137.2	197.2
100	16.9	0.0	46.9

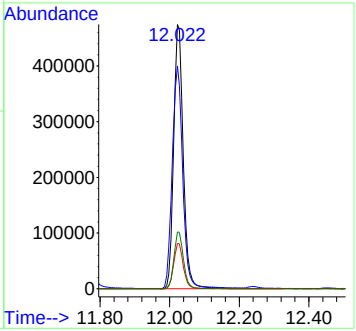


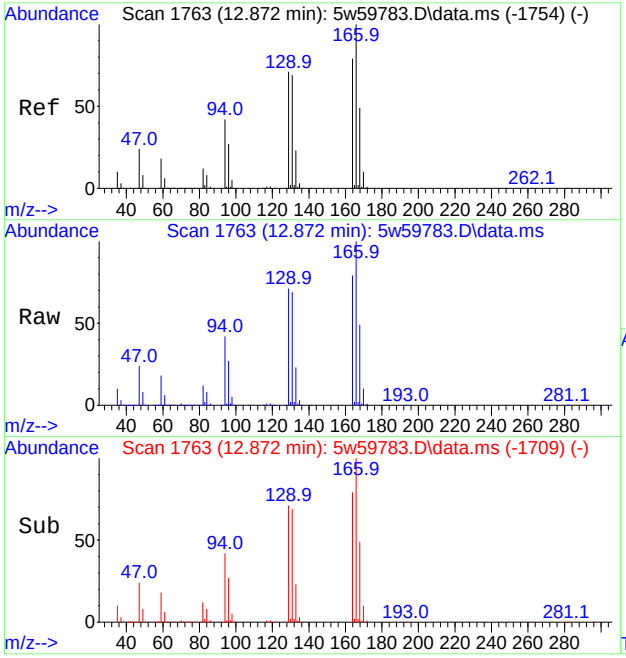


#72
ETHYL METHACRYLATE
Concen: 13.03 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 915611

Ion	Ratio	Lower	Upper
69	100		
41	91.5	64.0	119.0
86	17.2	12.0	22.4
99	21.4	15.0	27.8

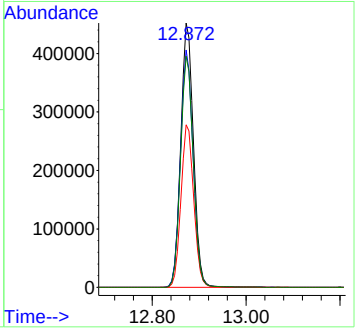


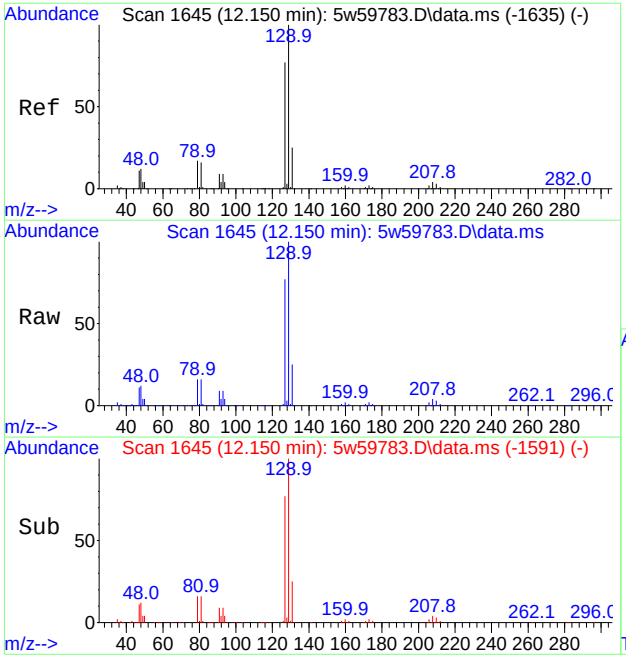


#73
TETRACHLOROETHYLENE
Concen: 10.39 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:164 Resp: 851797

Ion	Ratio	Lower	Upper
164	100		
129	89.7	59.7	119.7
168	62.2	32.2	92.2
131	87.8	57.8	117.8

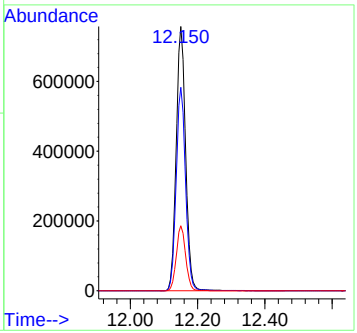


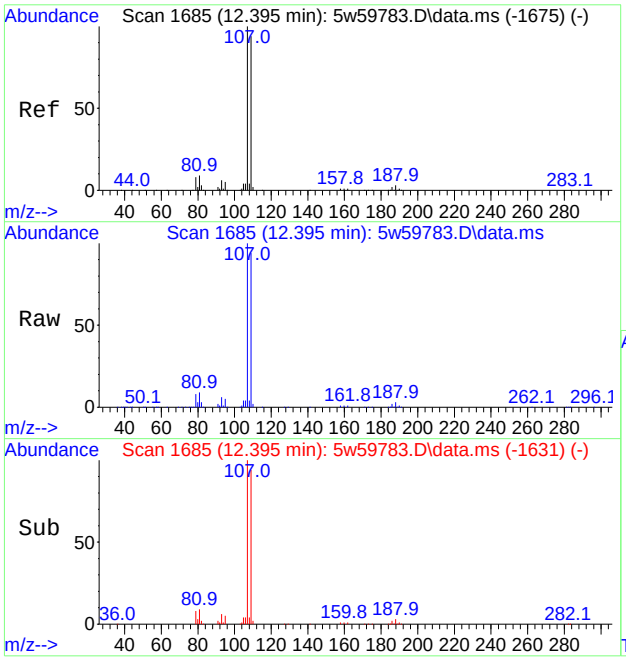


#74
DIBROMOCHLOROMETHANE
Concen: 10.66 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:129 Resp: 1470928

Ion	Ratio	Lower	Upper
129	100		
127	77.1	47.1	107.1
131	24.5	0.0	54.5

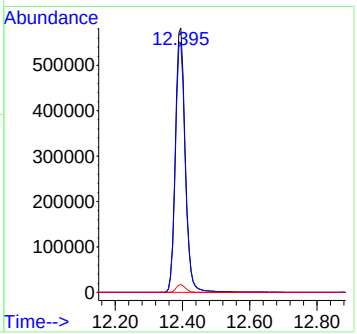


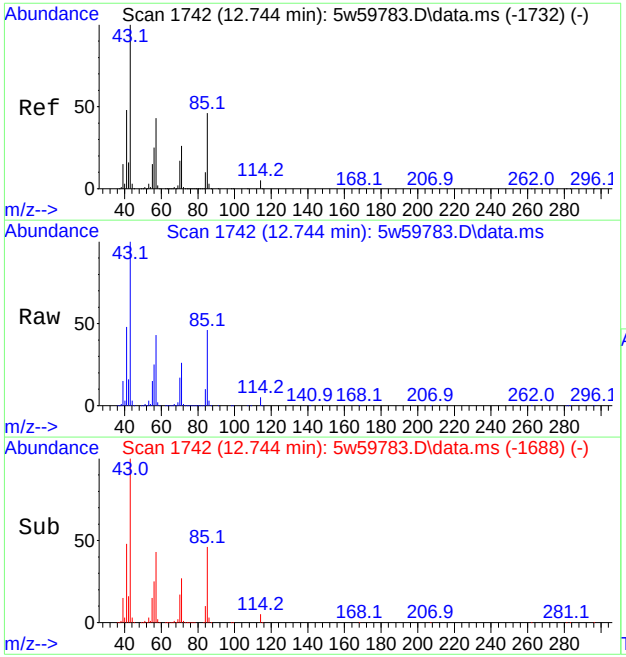


#75
1,2-DIBROMOETHANE
Concen: 11.73 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:107 Resp: 1182589

Ion	Ratio	Lower	Upper
107	100		
109	94.8	64.8	124.8
188	2.8	0.0	32.8

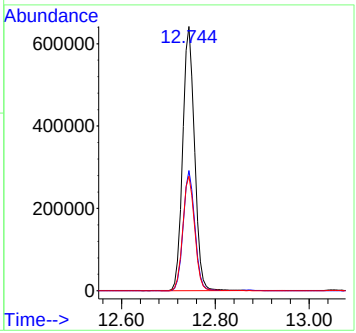


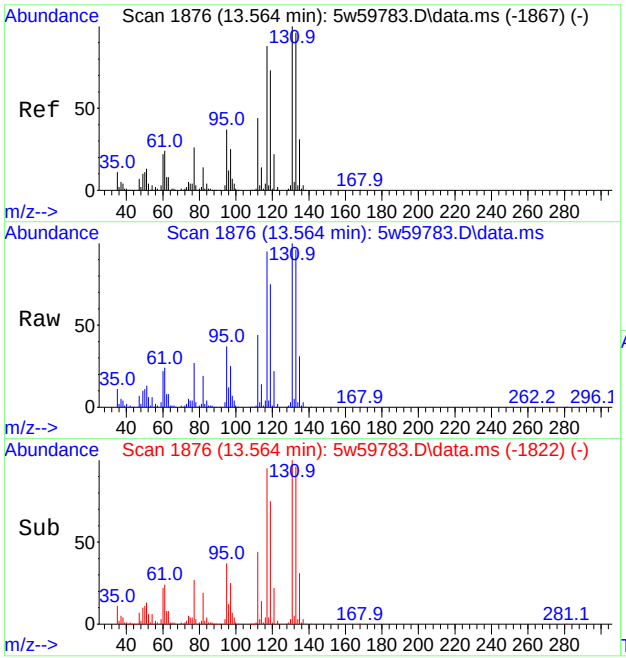


#76
OCTANE
Concen: 9.72 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1128893

Ion	Ratio	Lower	Upper
43	100		
85	44.6	14.6	74.6
57	43.7	13.7	73.7

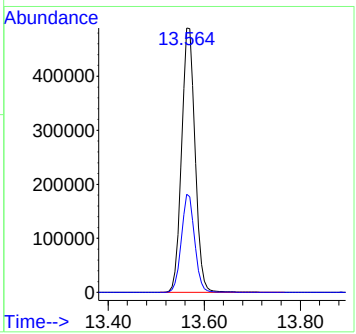


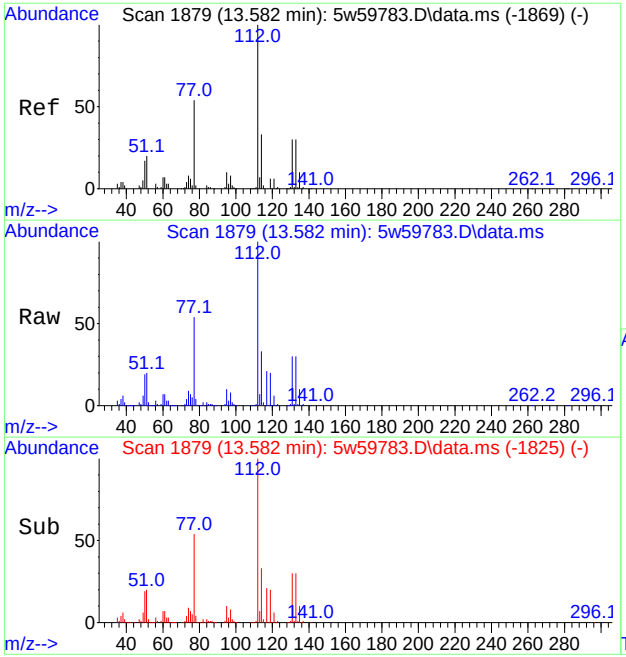


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.52 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:131 Resp: 951903

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

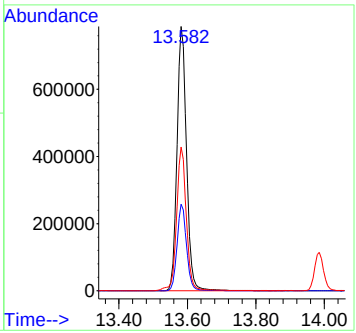


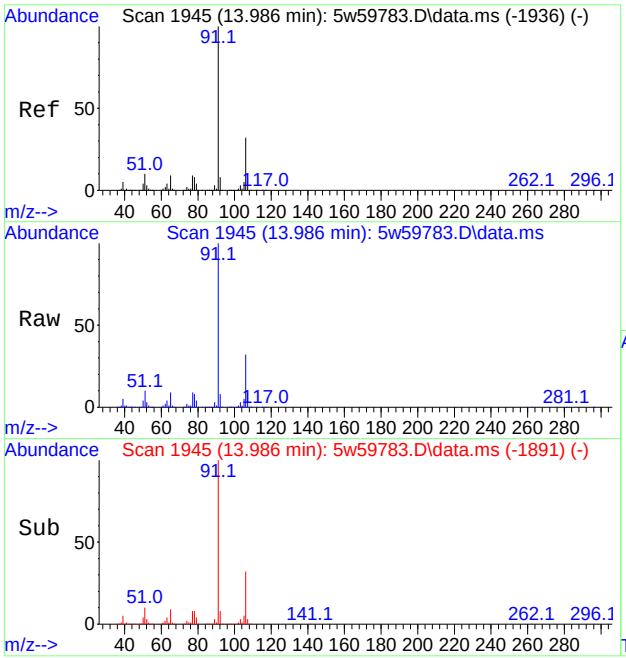


#78
CHLOROBENZENE
Concen: 10.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:112 Resp: 1532486

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.4	25.4	85.4

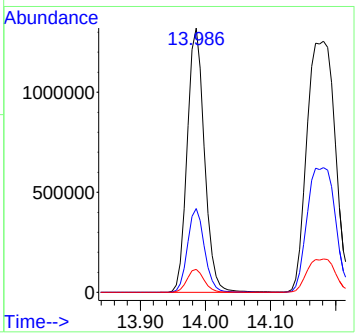


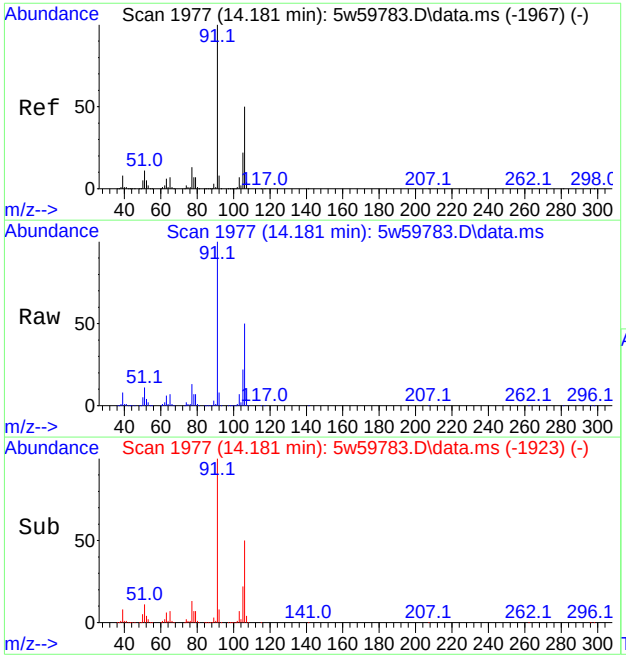


#79
ETHYLBENZENE
Concen: 11.38 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2426187

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.3	61.3
77	8.6	0.0	38.6

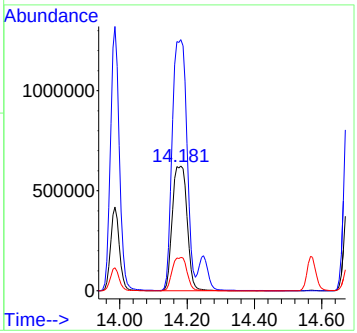


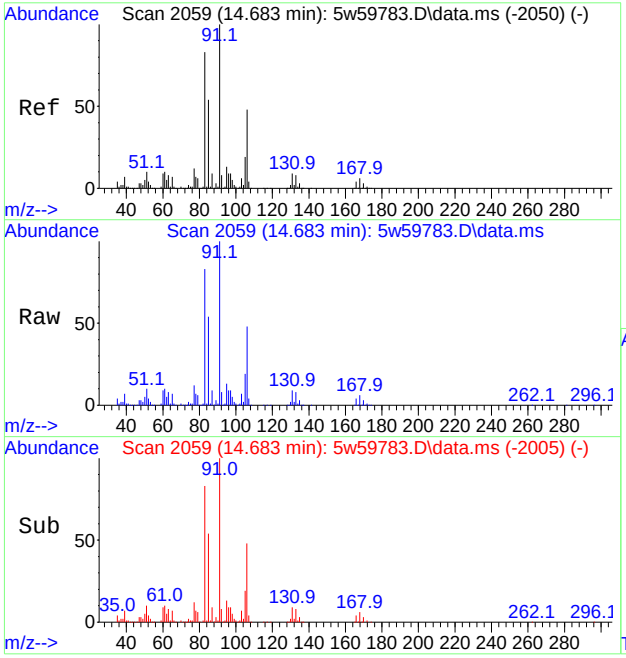


#80
m,p-XYLENE
Concen: 23.39 PPBV
RT: 14.181 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 1894377

Ion	Ratio	Lower	Upper
106	100		
91	201.0	171.0	231.0
77	26.7	0.0	56.7

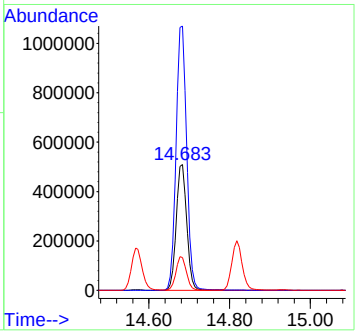


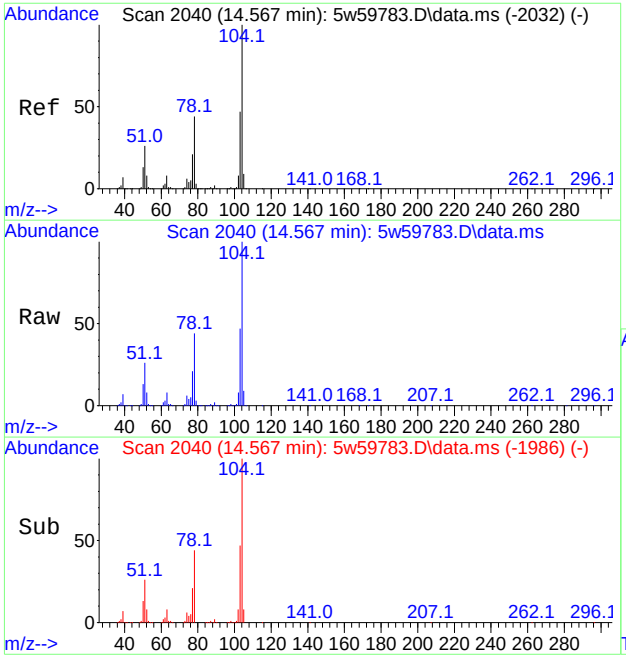


#81
o-XYLENE
Concen: 12.40 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 921132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	181.6	241.6
77	26.6	0.0	56.6

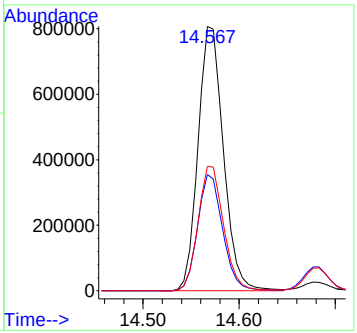


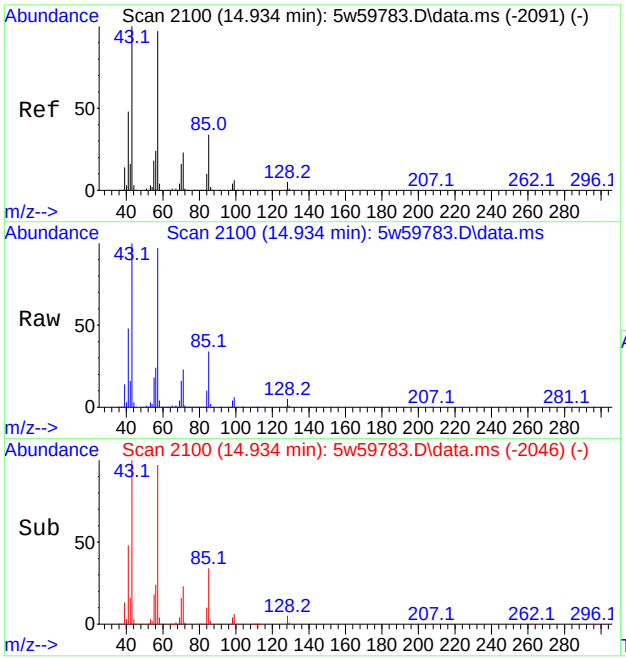


#82
STYRENE
Concen: 13.06 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:104 Resp: 1485661

Ion	Ratio	Lower	Upper
104	100		
78	43.3	13.3	73.3
103	47.2	17.2	77.2

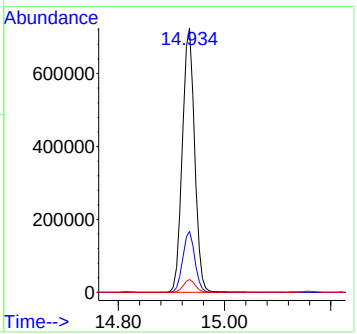


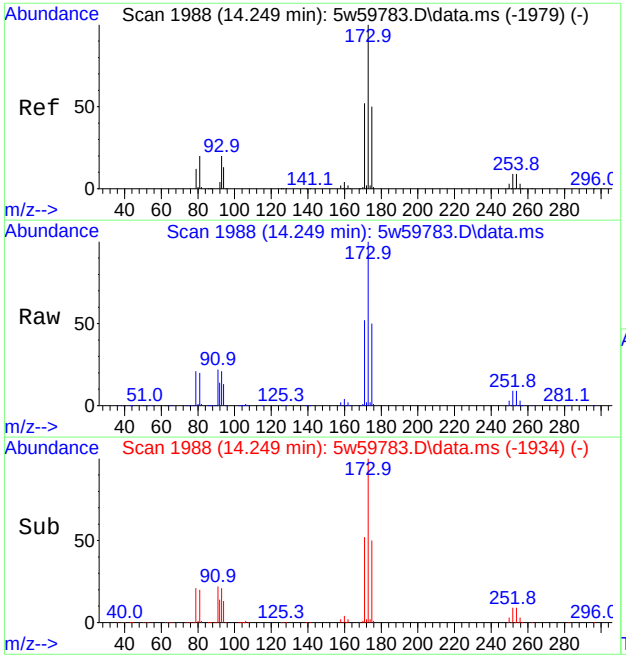


#83
NONANE
Concen: 10.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1167938

Ion	Ratio	Lower	Upper
43	100		
71	22.7	0.0	52.7
128	4.7	0.0	34.7

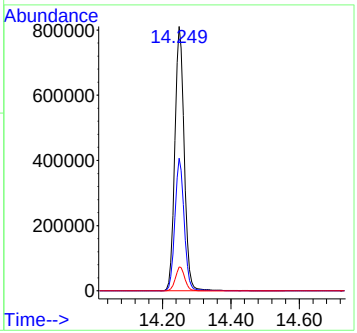


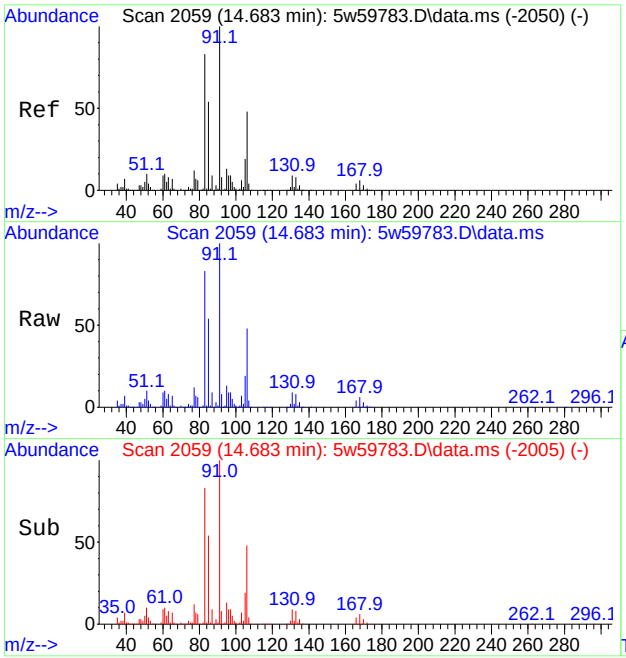


#84
BROMOFORM
Concen: 10.92 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:173 Resp: 1553327

Ion	Ratio	Lower	Upper
173	100		
175	49.6	19.6	79.6
254	9.0	0.0	39.0

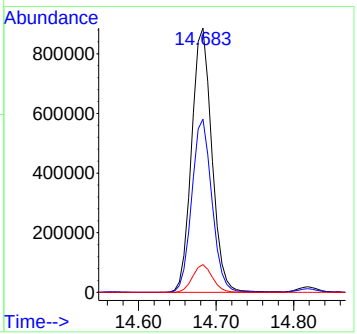


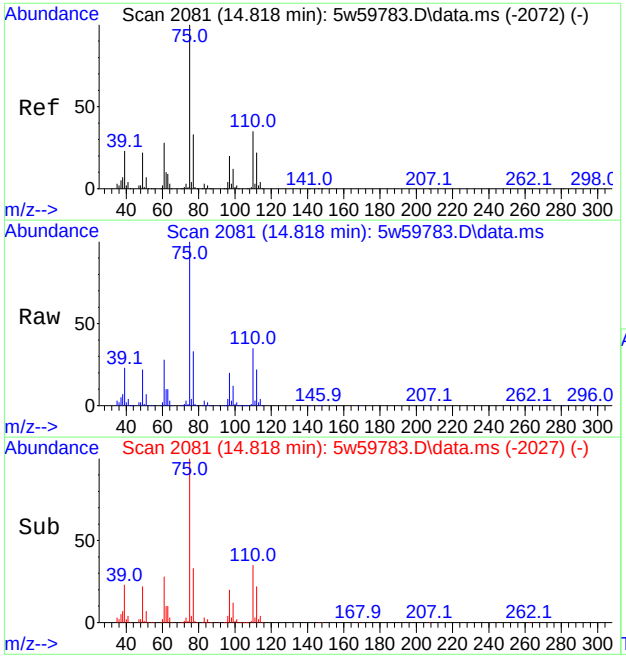


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.27 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1606320

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.2	95.2
131	10.3	0.0	40.3

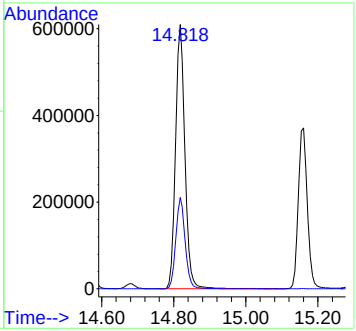


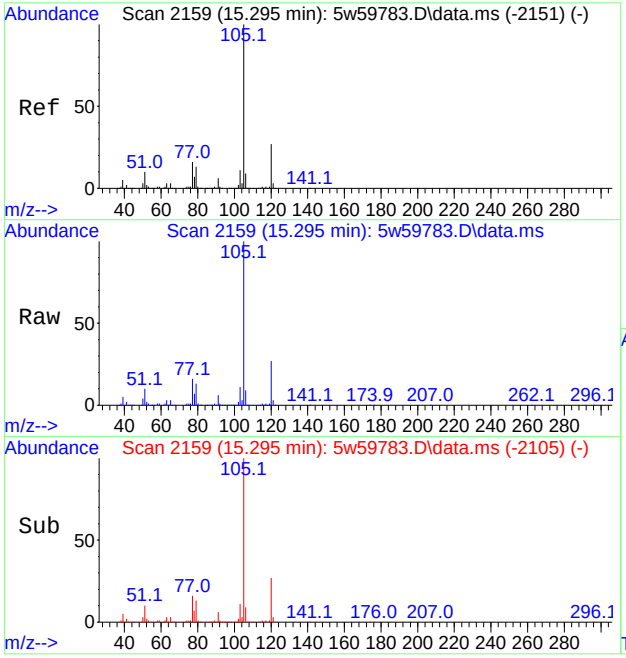


#87
1,2,3-TRICHLOROPROPANE
Concen: 9.96 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 1108756

Ion	Ratio	Lower	Upper
75	100		
110	34.4	4.4	64.4

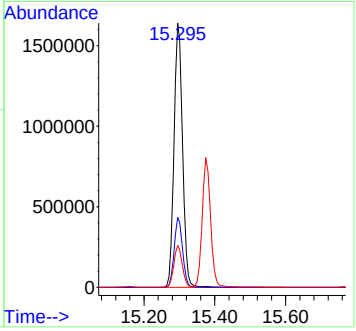


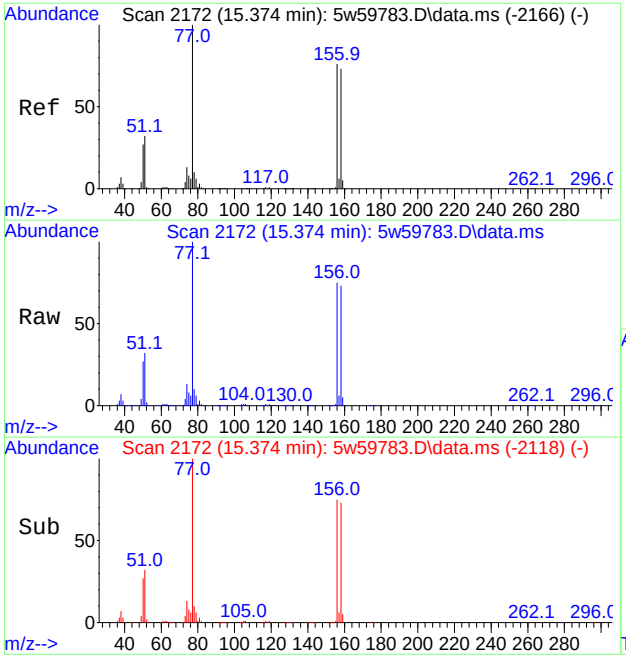


#88
ISOPROPYLBENZENE
Concen: 11.04 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2737713

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

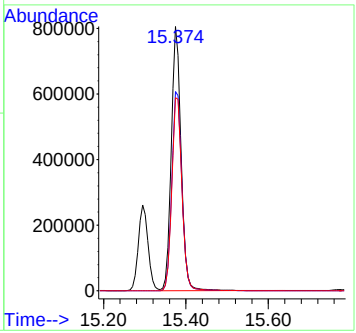


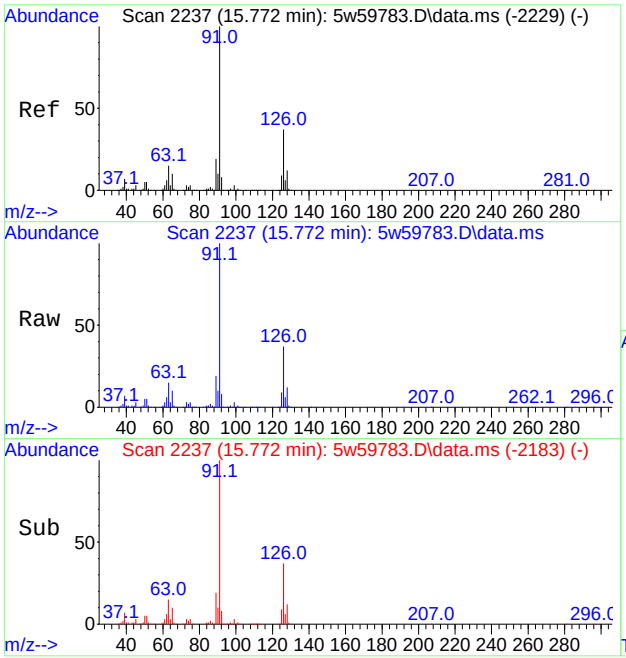


#89
BROMOBENZENE
Concen: 10.19 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 77 Resp: 1323542

Ion	Ratio	Lower	Upper
77	100		
156	78.4	54.9	101.9
158	76.4	53.5	99.3

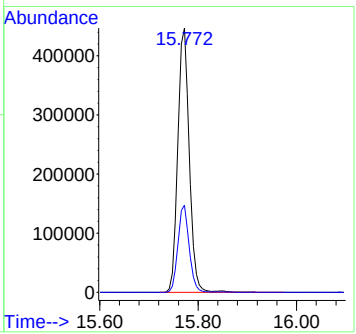


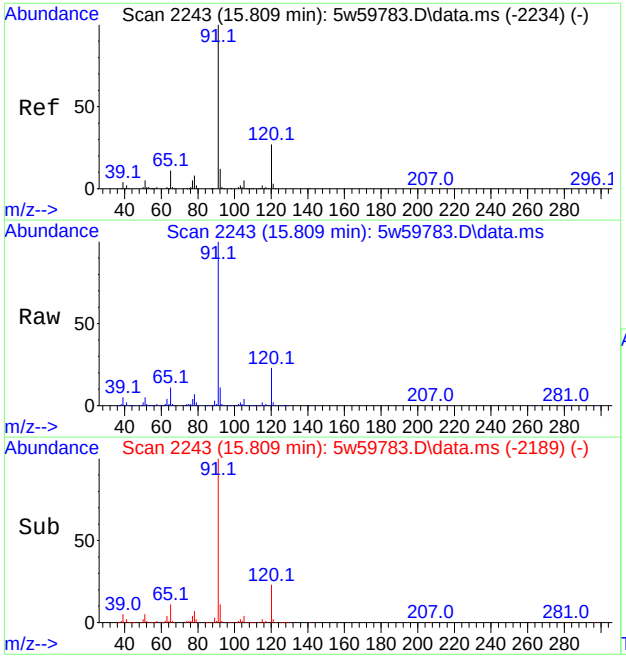


#90
2-CHLOROTOLUENE
Concen: 10.93 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:126 Resp: 723050

Ion	Ratio	Lower	Upper
126	100		
128	32.7	2.7	62.7

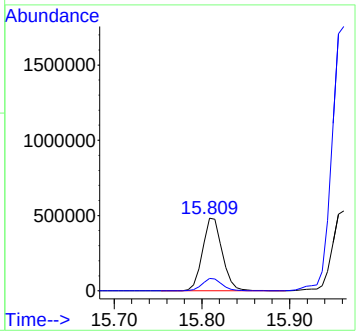


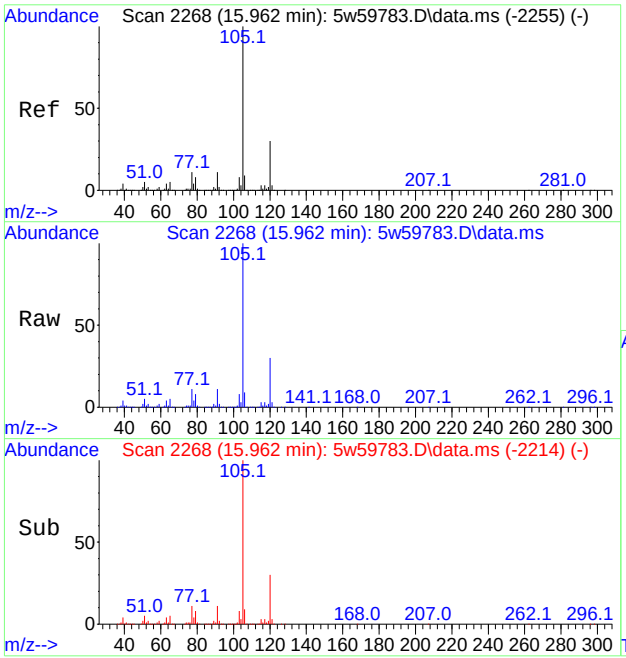


#91
n-PROPYLBENZENE
Concen: 11.44 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:120 Resp: 754817

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

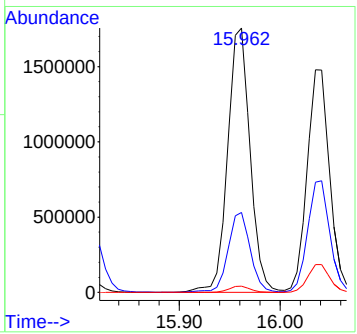


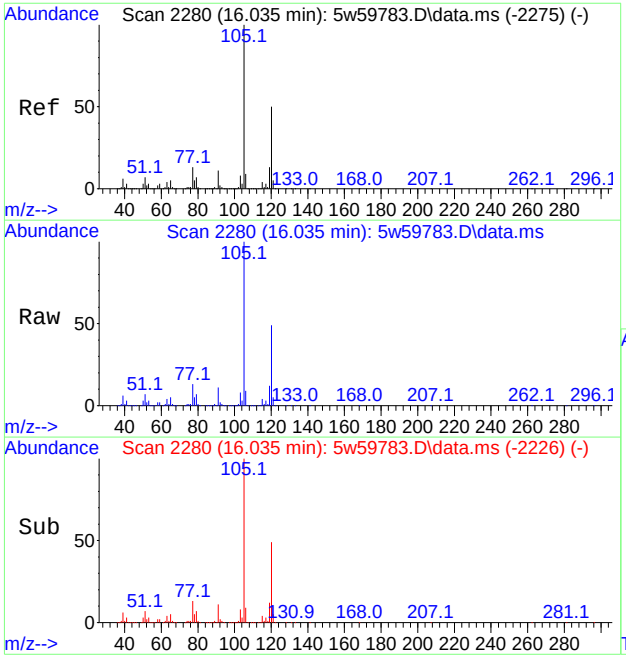


#92
4-ETHYLTOLUENE
Concen: 12.20 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2719805

Ion	Ratio	Lower	Upper
105	100		
120	29.9	0.0	59.9
119	2.3	0.0	32.3

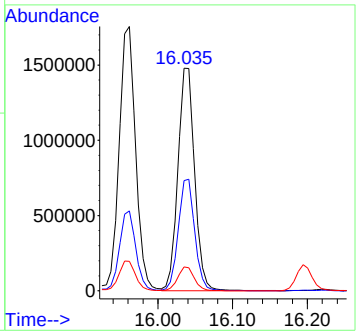


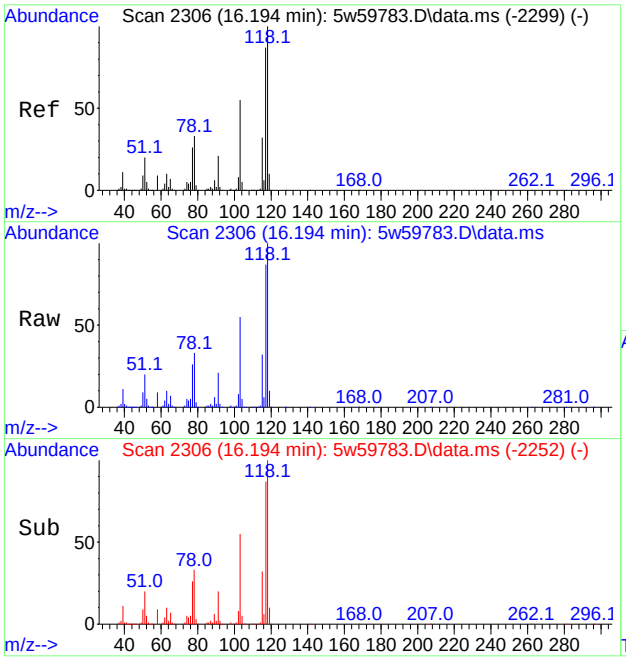


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.13 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2300675

Ion	Ratio	Lower	Upper
105	100		
120	49.4	19.4	79.4
91	10.8	0.0	40.7

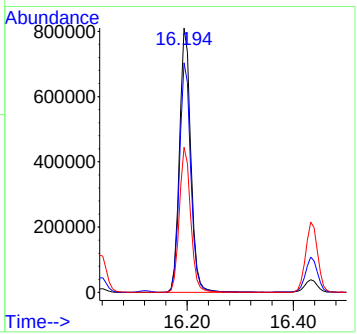


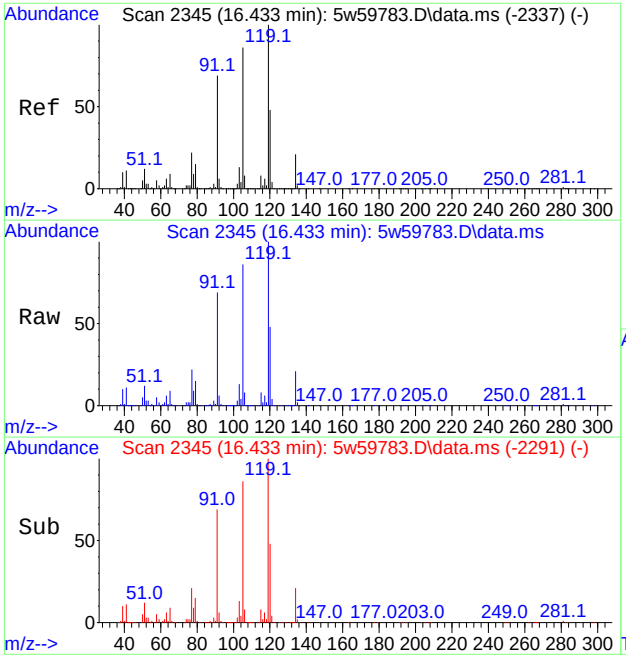


#94
ALPHA-METHYLSTYRENE
Concen: 12.09 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:118 Resp: 1195904

Ion	Ratio	Lower	Upper
118	100		
117	87.0	60.9	113.1
103	55.2	38.6	71.8

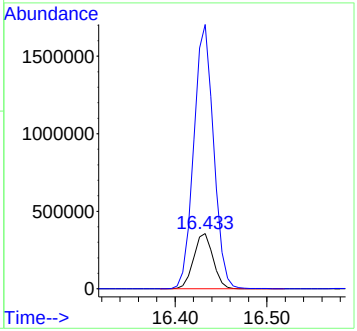


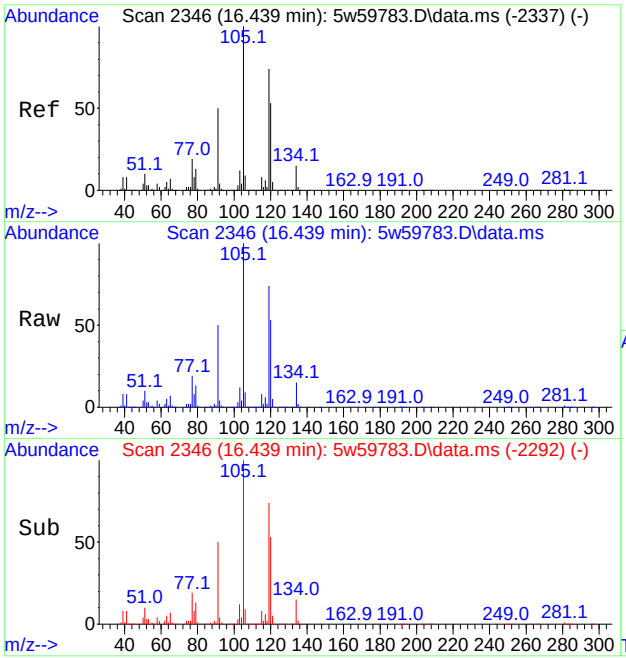


#95
tert-BUTYLBENZENE
Concen: 12.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 523380

Ion	Ratio	Lower	Upper
134	100		
119	489.3	459.3	519.3

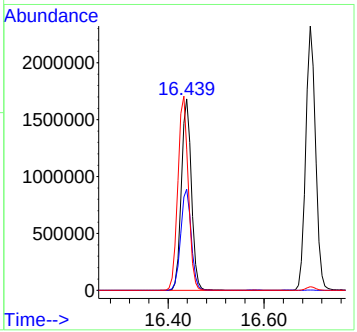


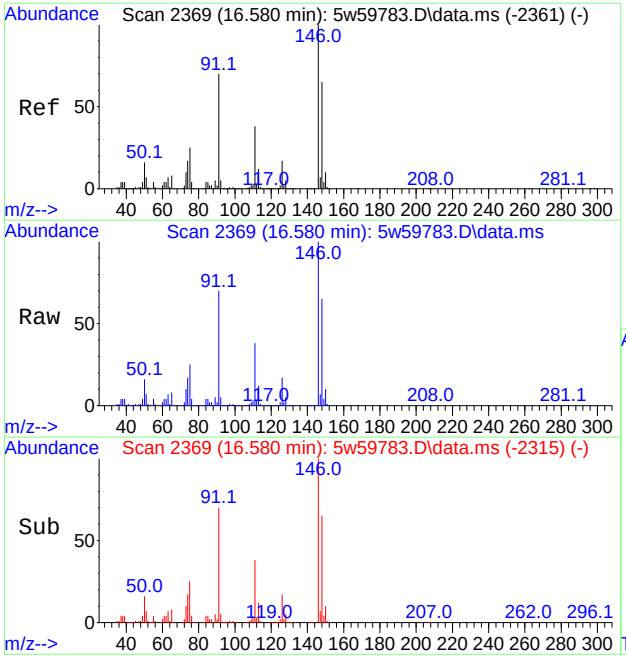


#96
1,2,4-TRIMETHYLBENZENE
Concen: 12.17 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2423323

Ion	Ratio	Lower	Upper
105	100		
120	55.7	25.7	85.7
119	105.7	75.7	135.7

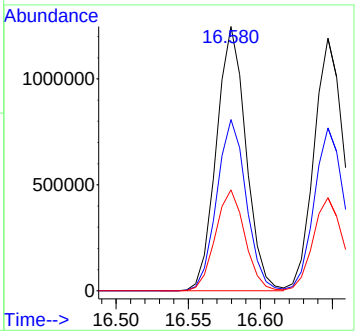


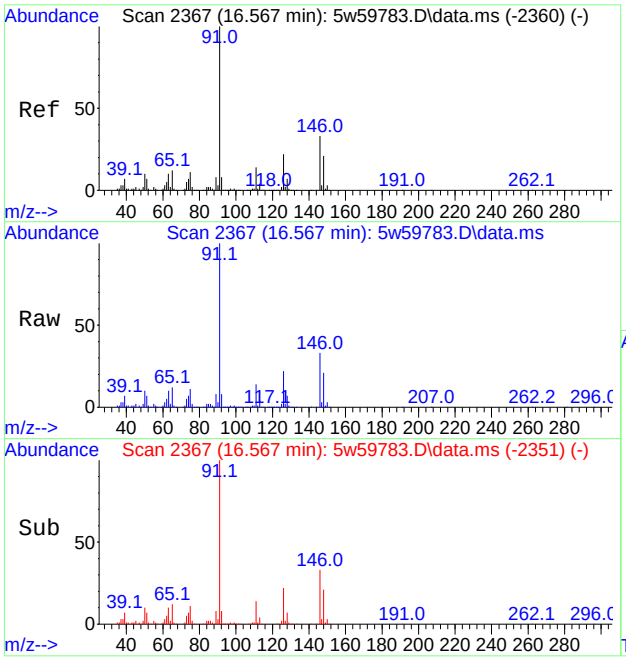


#97
m-DICHLOROBENZENE
Concen: 11.15 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1782947

Ion	Ratio	Lower	Upper
146	100		
148	64.8	34.8	94.8
111	38.2	8.2	68.2

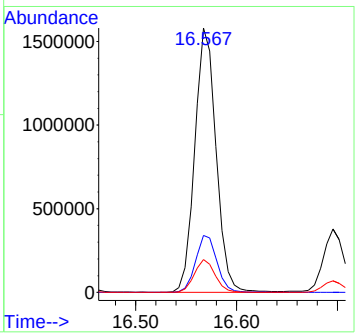


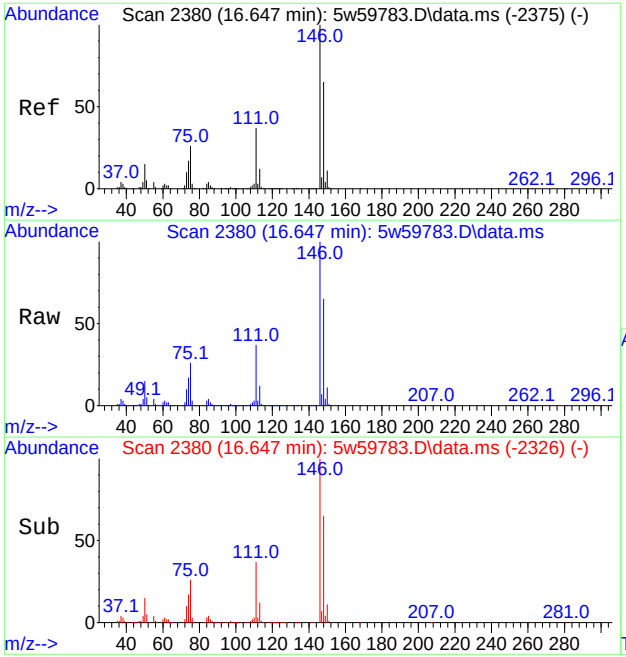


#98
BENZYL CHLORIDE
Concen: 12.73 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2316167

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.2	0.0	42.2

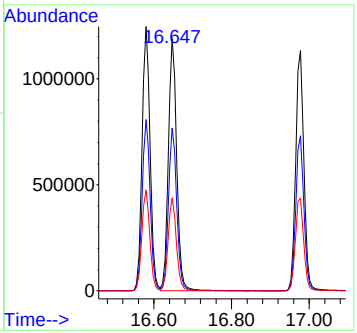


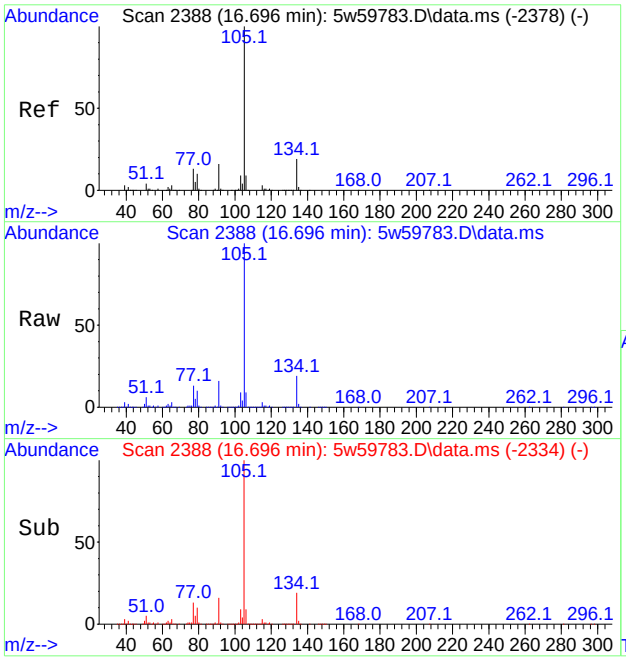


#99
p-DICHLOROBENZENE
Concen: 10.72 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1775311

Ion	Ratio	Lower	Upper
146	100		
148	64.6	34.6	94.6
111	36.7	6.7	66.7

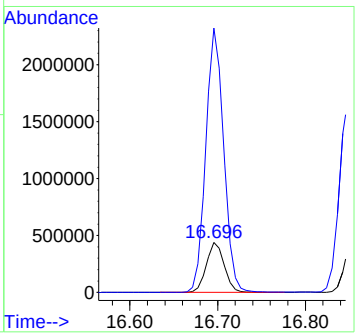


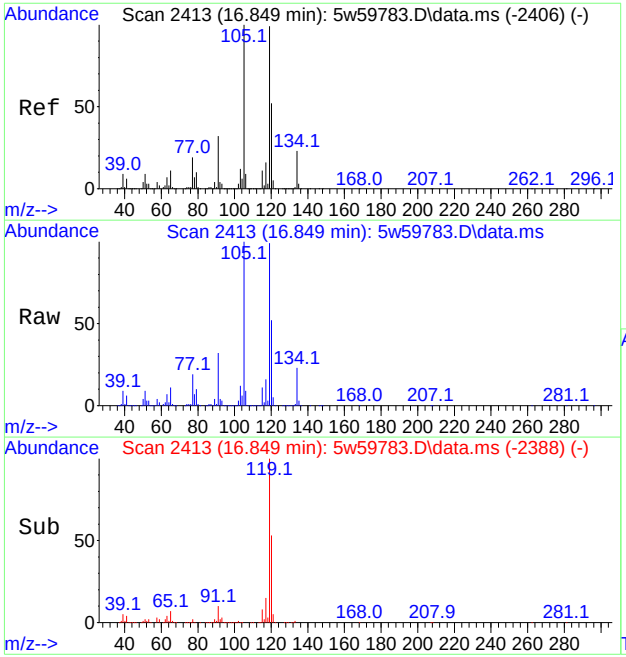


#100
sec-BUTYLBENZENE
Concen: 11.27 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 618616

Ion	Ratio	Lower	Upper
134	100		
105	532.5	502.5	562.5

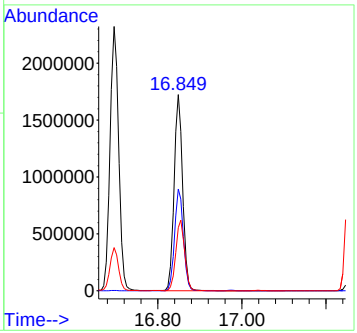


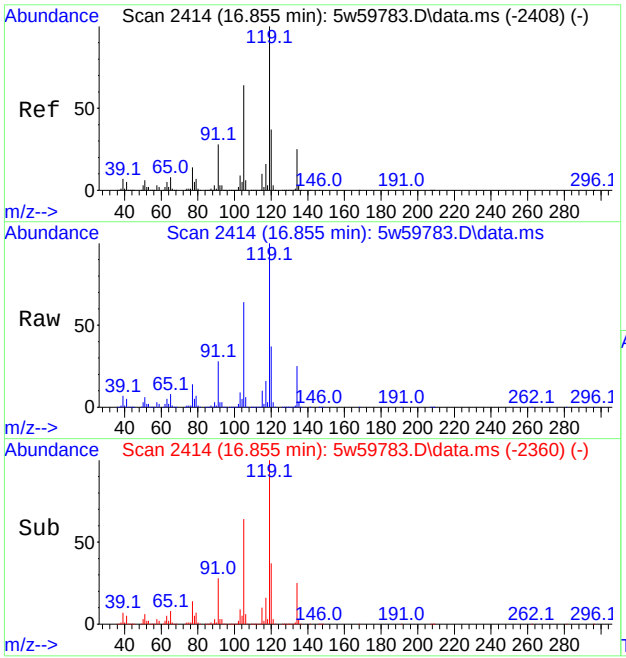


#101
1,2,3-TRIMETHYLBENZENE
Concen: 11.39 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2427524

Ion	Ratio	Lower	Upper
105	100		
120	53.5	23.5	83.5
91	37.4	7.4	67.4

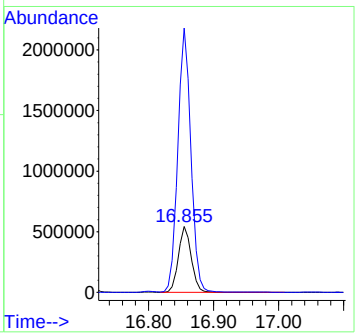


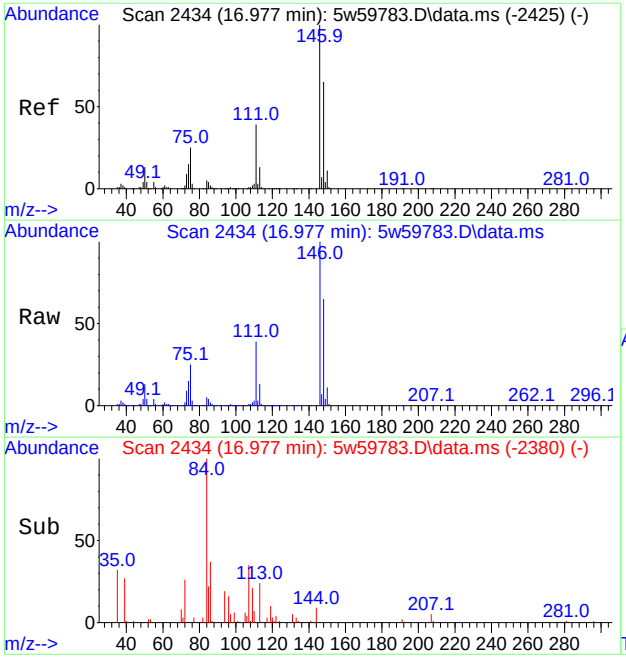


#102
p-ISOPROPYLTOLUENE
Concen: 11.87 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 746734

Ion	Ratio	Lower	Upper
134	100		
119	407.7	377.7	437.7

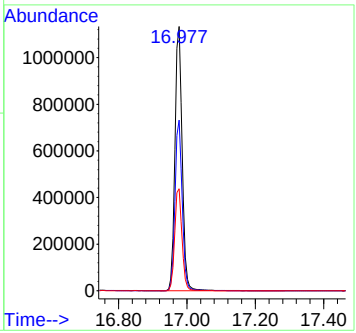


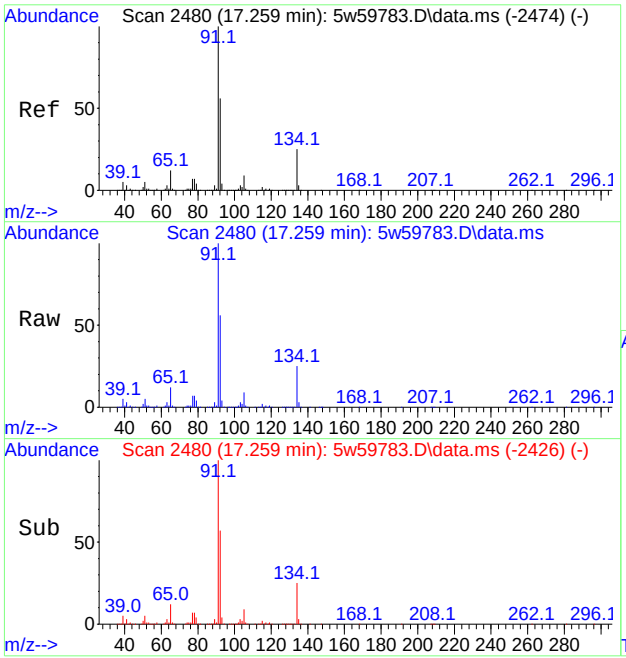


#103
o-DICHLOROBENZENE
Concen: 10.31 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1665215

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.3	94.3
111	39.2	9.2	69.2

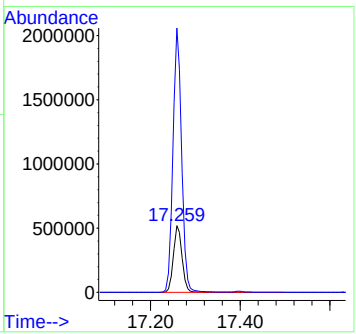


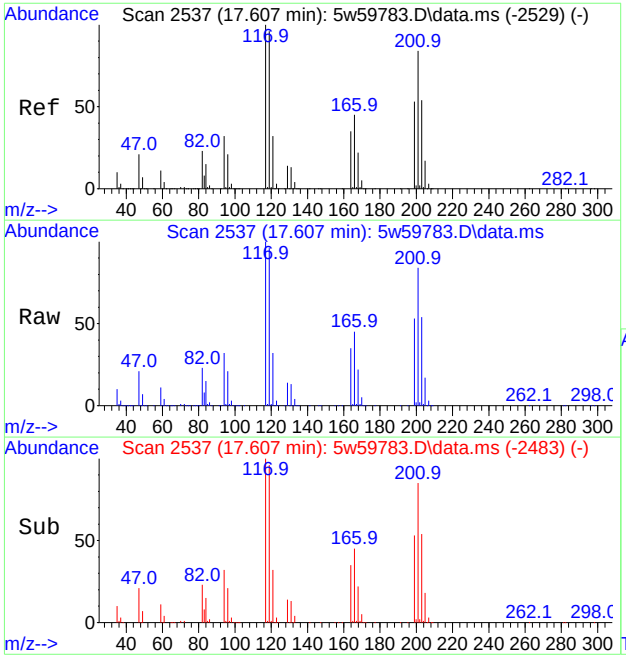


#104
n-BUTYLBENZENE
Concen: 12.21 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 703045

Ion	Ratio	Lower	Upper
134	100		
91	393.1	363.1	423.1

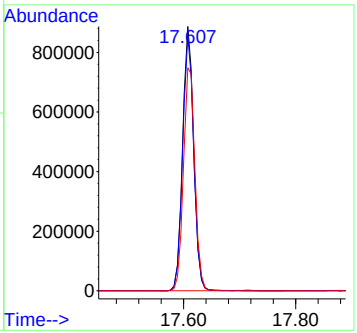


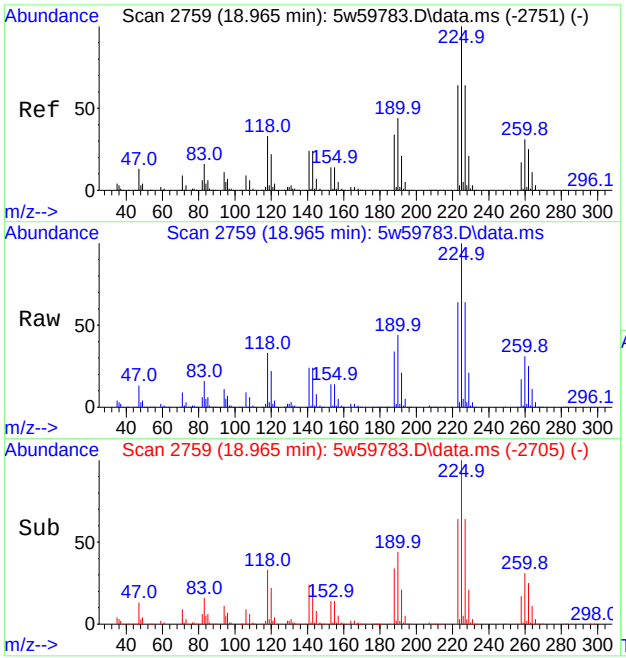


#105
HEXACHLOROETHANE
Concen: 11.22 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1210974

Ion	Ratio	Lower	Upper
117	100		
119	96.0	67.2	124.8
201	87.3	61.1	113.5

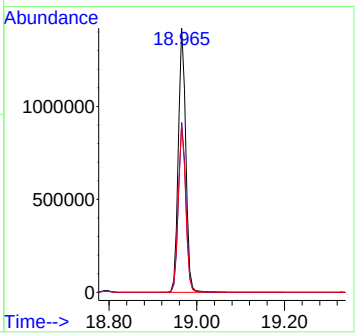


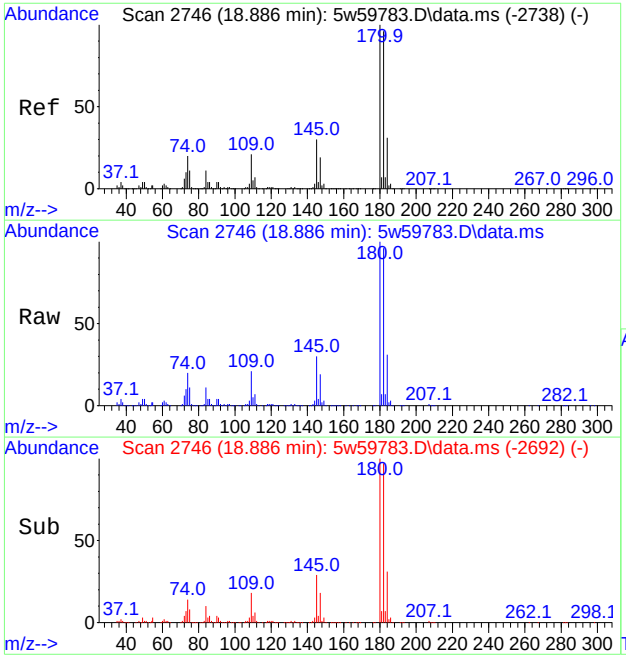


#106
HEXACHLOROBUTADIENE
Concen: 9.84 PPBV
RT: 18.965 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:225 Resp: 1667734

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.3	33.3	93.3

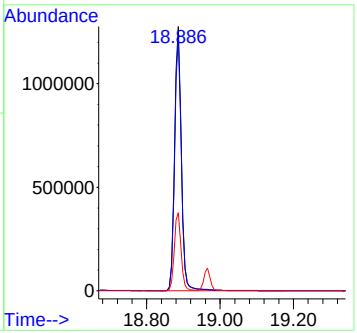


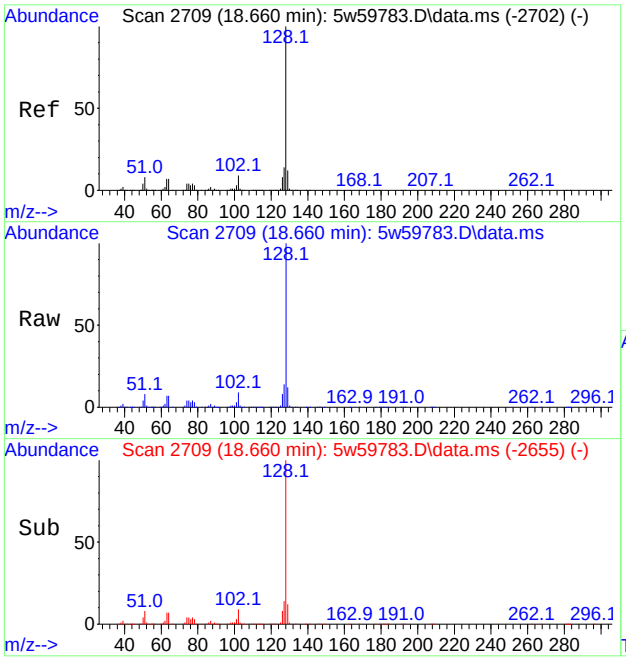


#107
1,2,4-TRICHLOROBENZENE
Concen: 14.54 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:180 Resp: 1638870

Ion	Ratio	Lower	Upper
180	100		
182	95.4	65.4	125.4
145	29.4	0.0	59.4

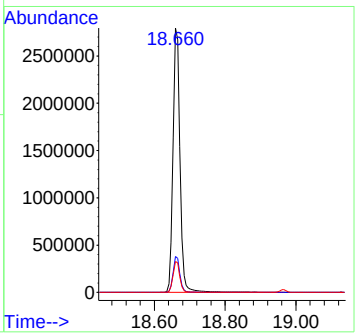


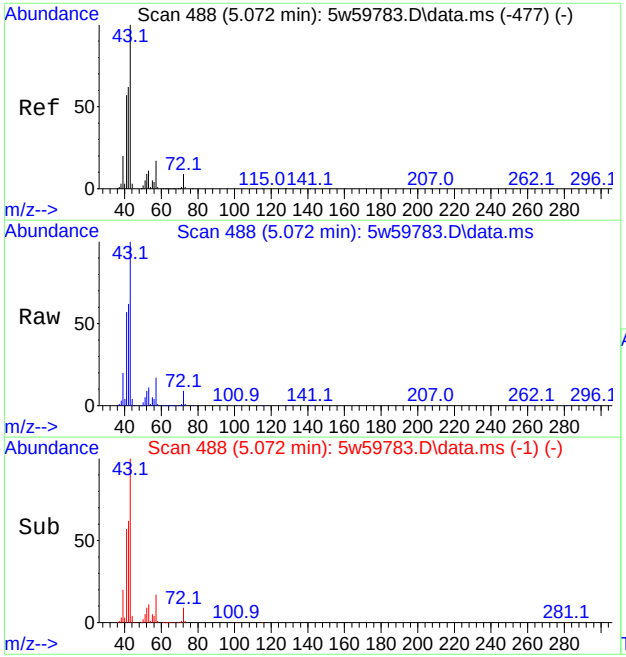


#108
NAPHTHALENE
Concen: 14.35 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:128 Resp: 3829842

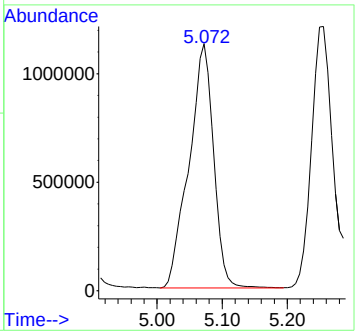
Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	43.3
129	11.4	0.0	41.5





#110
TVHC as equiv Pentane
Concen: 8.08 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:TIC Resp: 2959189



Manual Integration Approval Summary

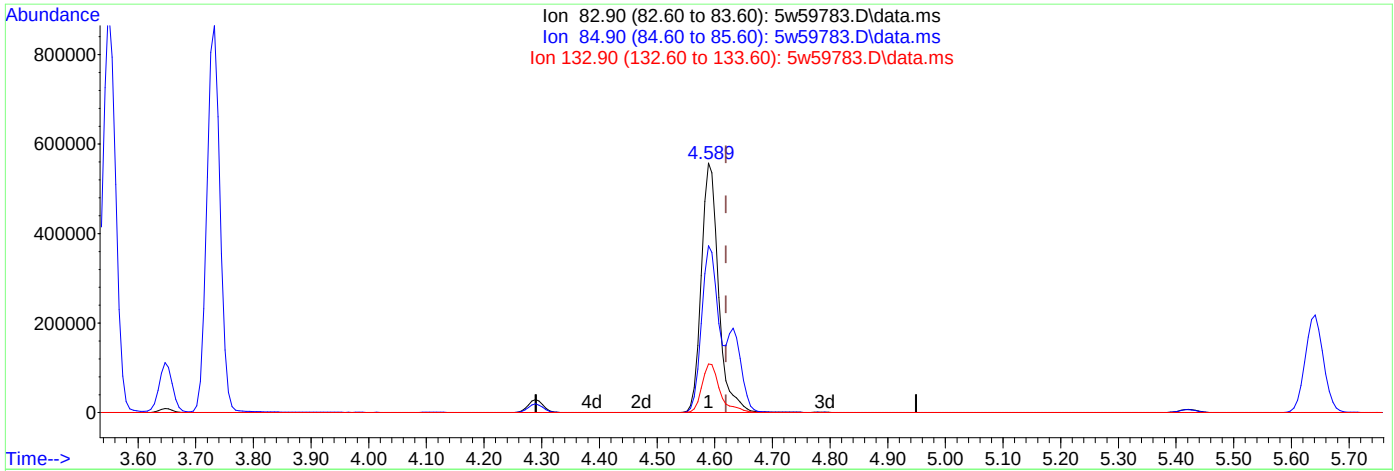
Sample Number: V5W2292-ICC2292 **Method:** TO-15
Lab FileID: 5W59783.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 07:33 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

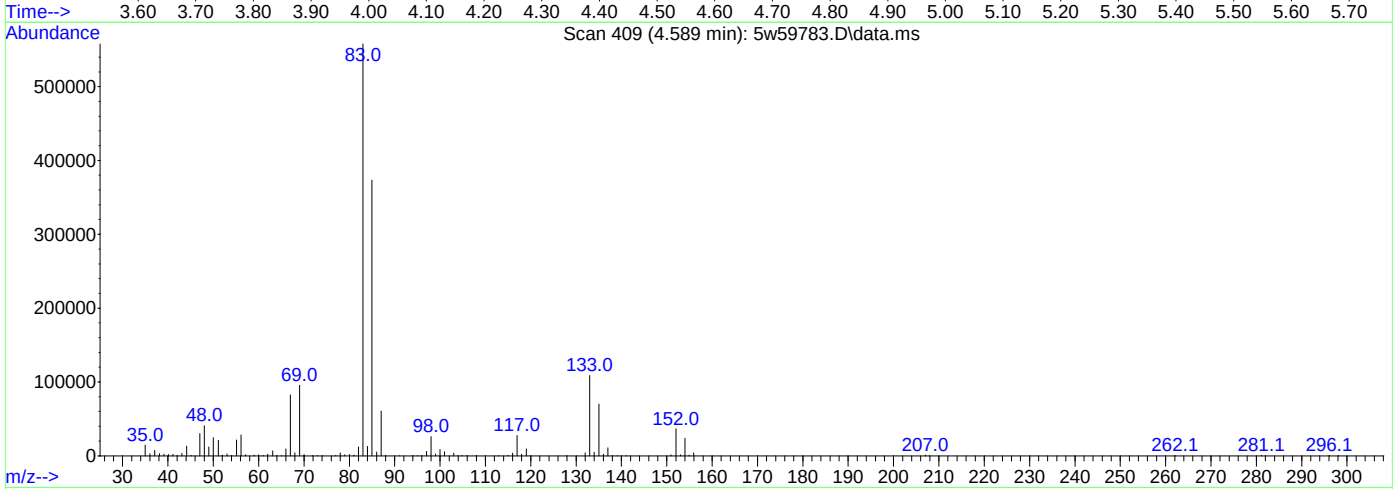
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration





TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (-0.031) 9.91PPBV

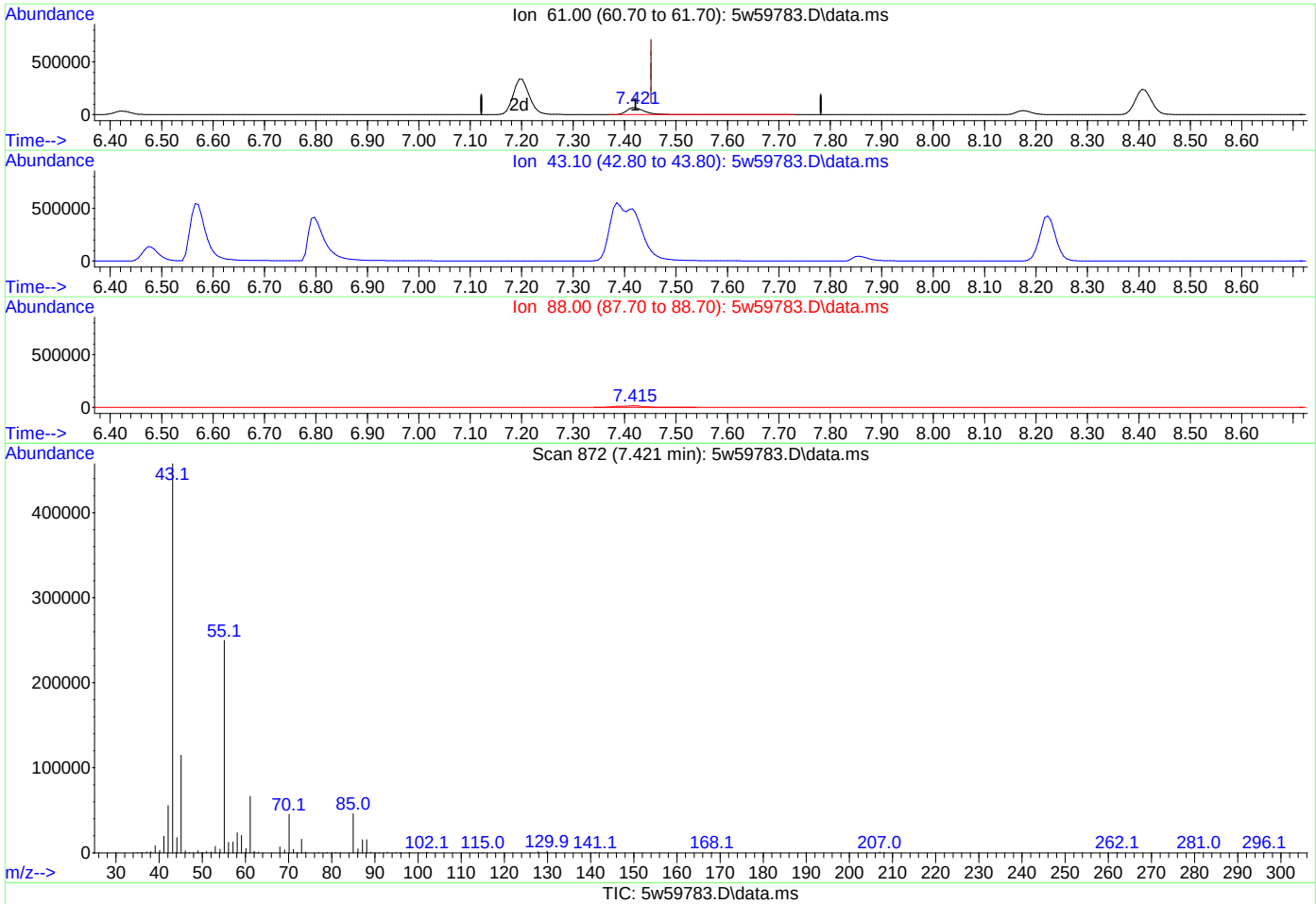
response 1157483

Ion	Exp%	Act%
82.90	100	100
84.90	94.90	94.40
132.90	27.20	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (-0.031) 10.63PPBV

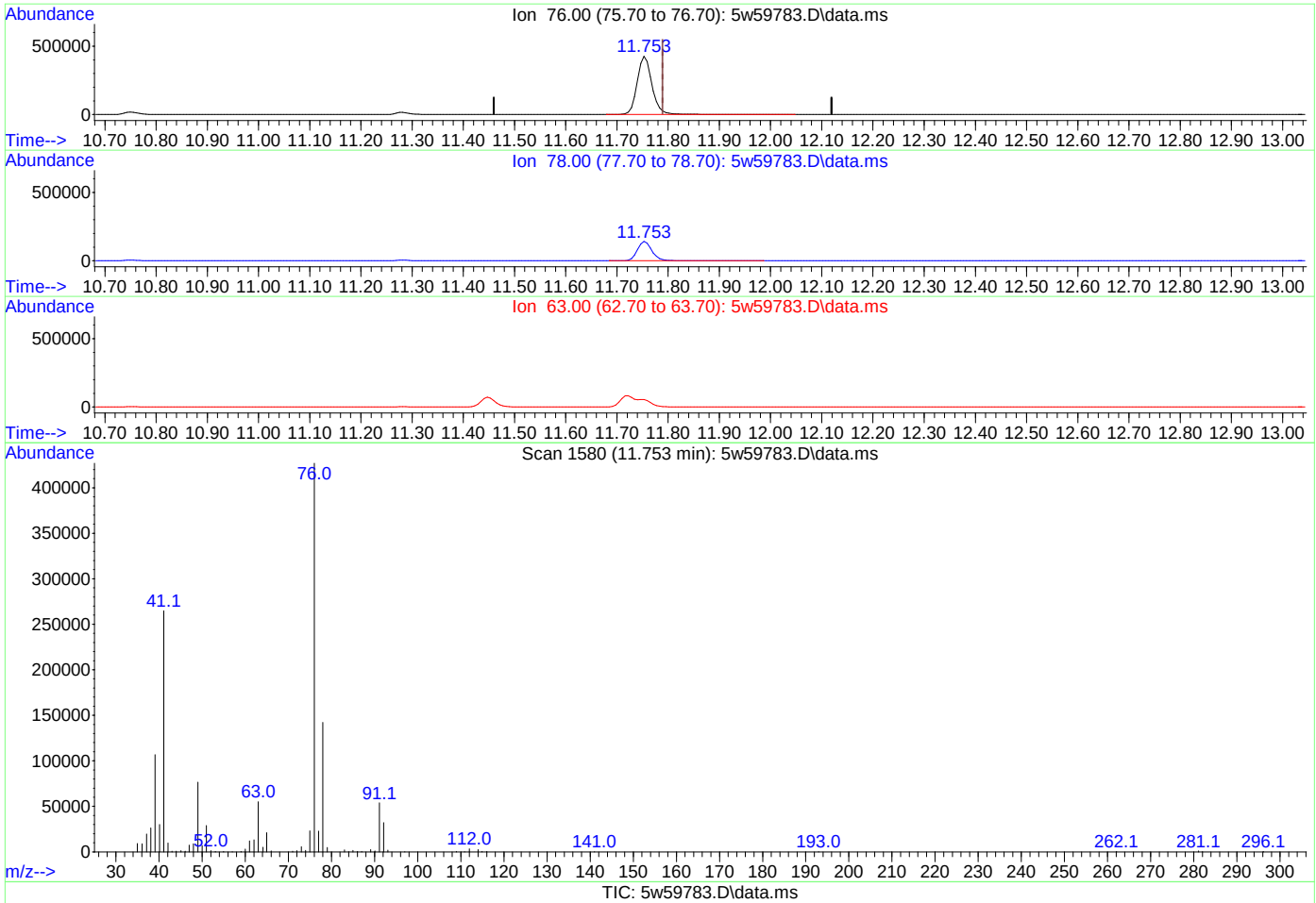
response 169787

Ion	Exp%	Act%
61.00	100	100
43.10	0.00	0.00
88.00	34.00	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (-0.037) 10.74PPBV

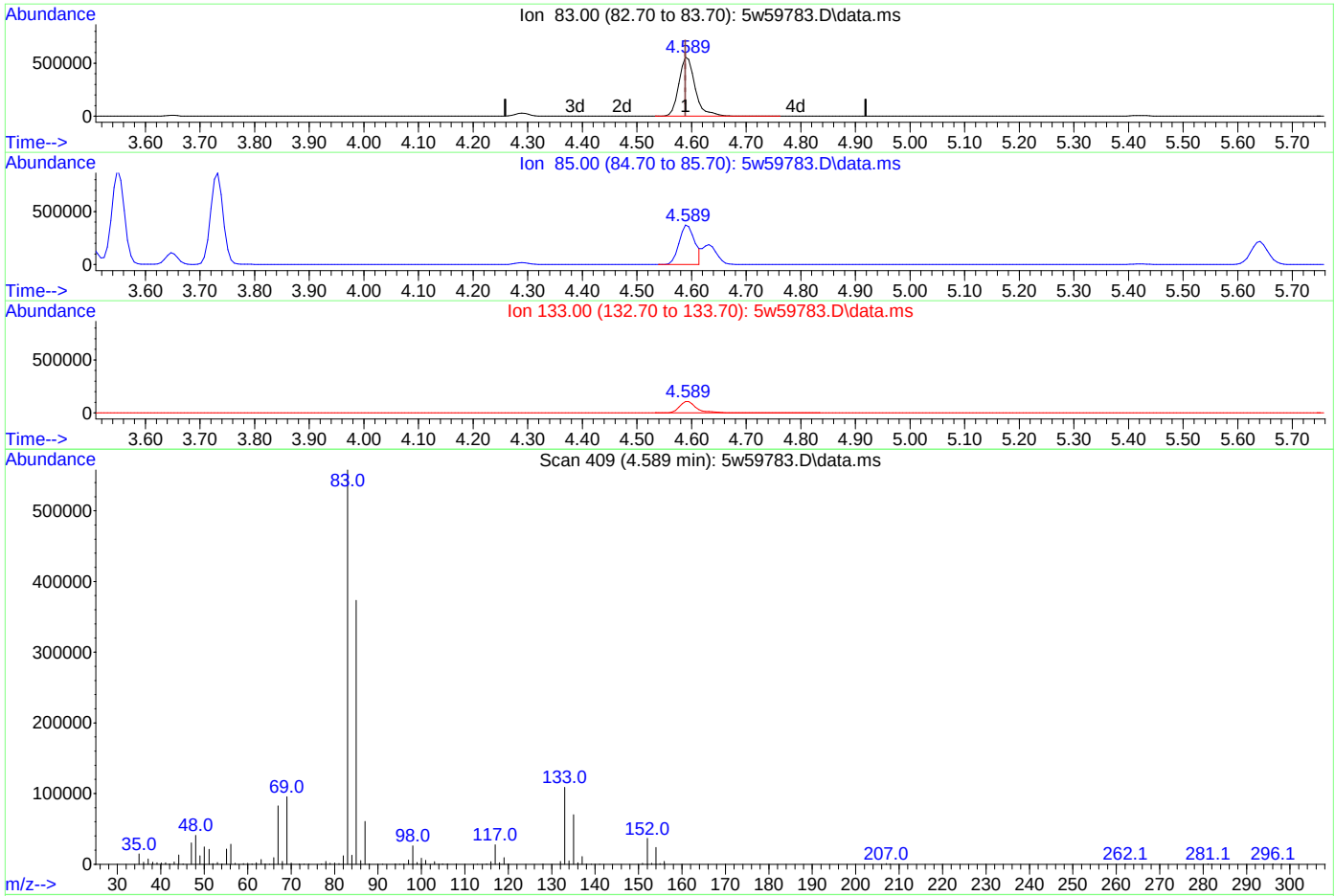
response 865913

Ion	Exp%	Act%
76.00	100	100
78.00	32.00	33.09
63.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (0.000) 9.93PPBV m

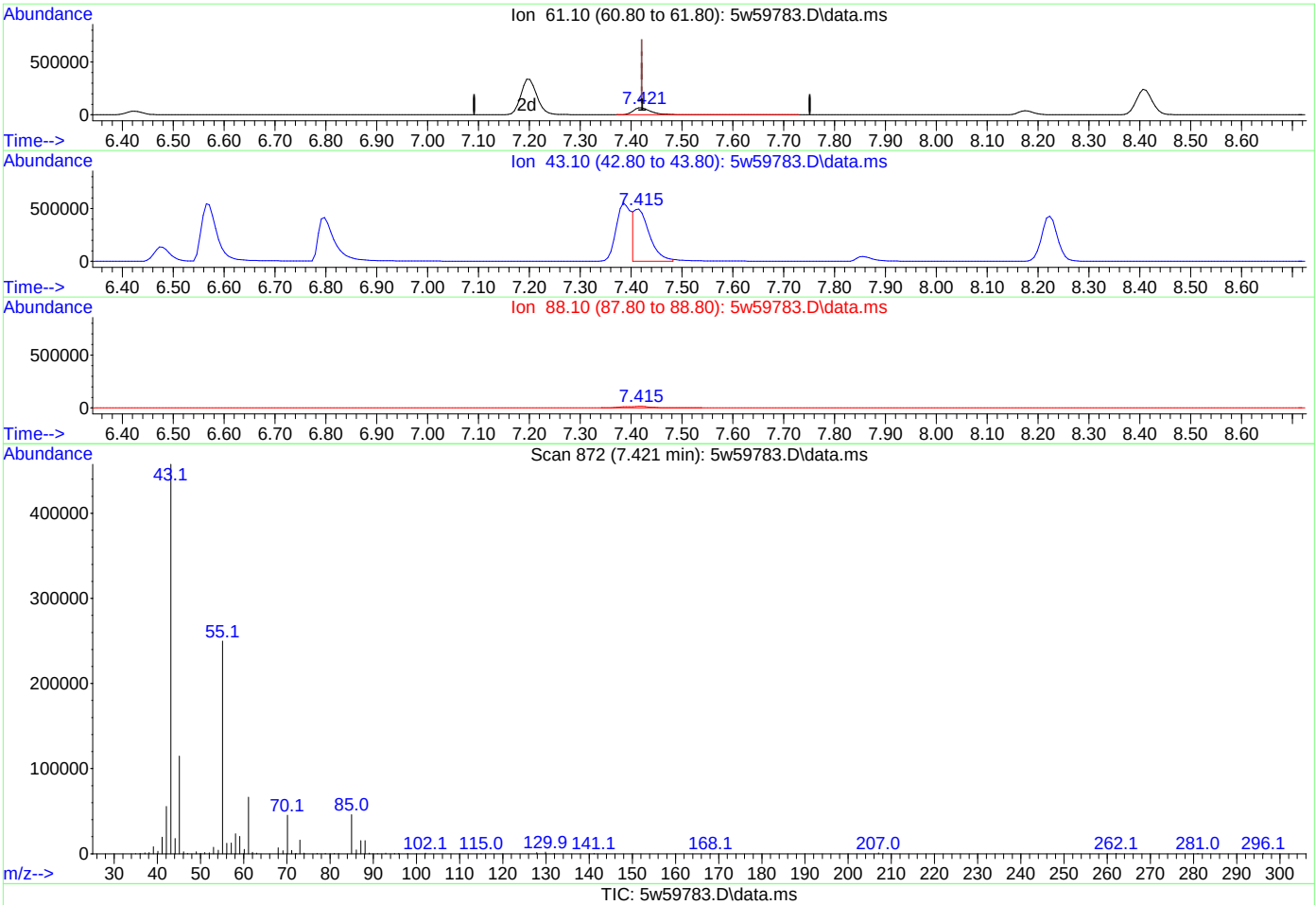
response 1157483

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.96
133.00	20.70	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (0.000) 10.80PPBV m

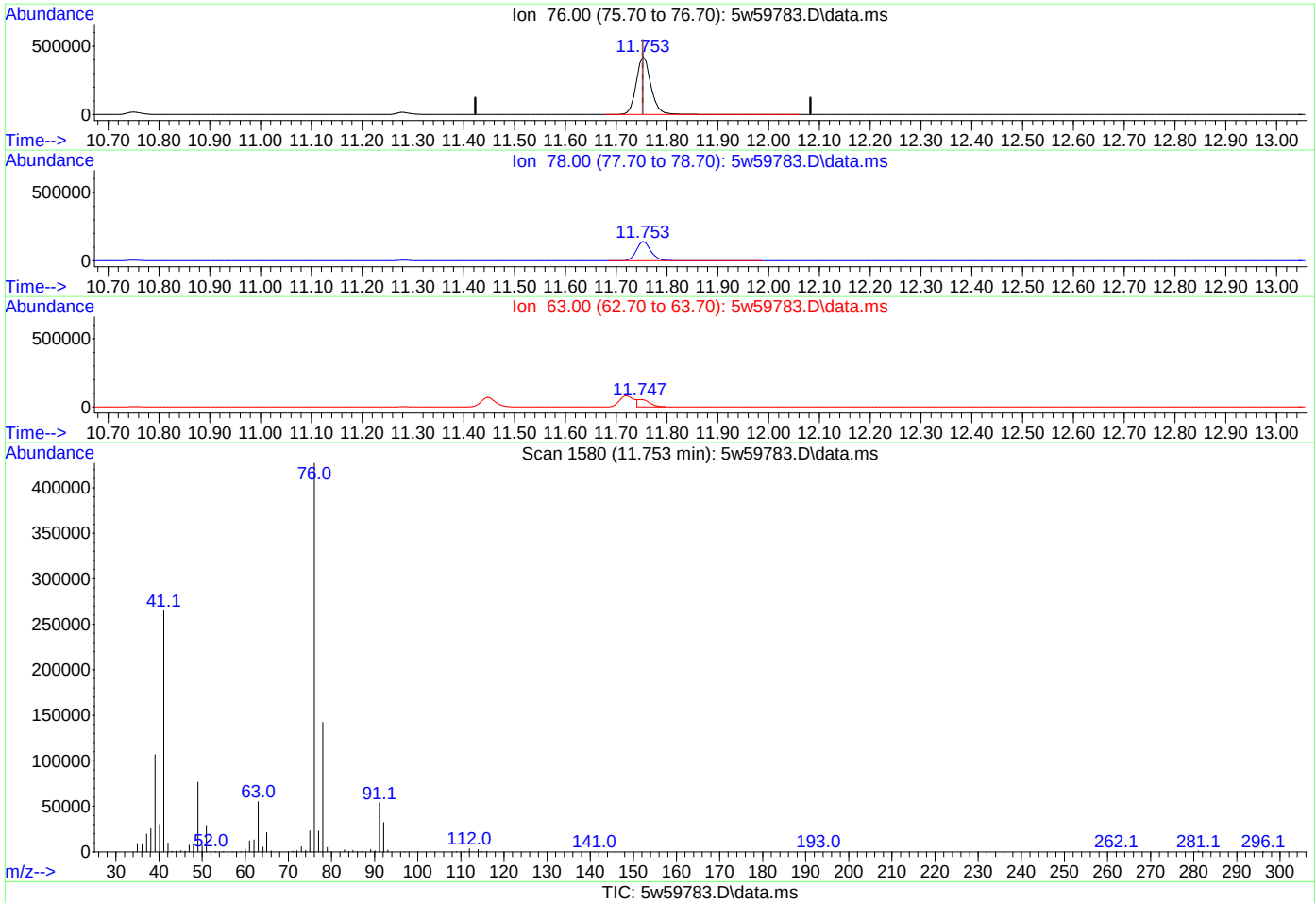
response 169787

Ion	Exp%	Act%
61.10	100	100
43.10	611.30	590.54
88.10	34.50	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (0.000) 10.80PPBV m

response 866163

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.08
63.00	10.30	10.05
0.00	0.00	0.00

5W59784.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	450013	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	1932450	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1113631	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	450746	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1356787	9.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	450963	7.75	PPBV	100
3) FREON 152A	3.445	65	629601	18.20	PPBV	98
4) CHLORODIFLUOROMETHANE	3.476	67	306106	19.32	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	1520054	20.38	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	2793626	18.80	PPBV	99
7) PROPYLENE	3.500	41	679227	17.76	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	2117806	15.73	PPBV	99
9) FREON 114	3.733	85	2612576	20.44	PPBV	99
10) CHLOROMETHANE	3.665	52	274402	17.35	PPBV	100
11) VINYL CHLORIDE	3.818	62	907868	18.27	PPBV	99
12) 1,3-BUTADIENE	3.916	54	526623m	15.76	PPBV	
13) n-BUTANE	3.947	43	848889	14.02	PPBV	99
14) BROMOMETHANE	4.106	94	947413	19.40	PPBV	100
15) CHLOROETHANE	4.228	64	401918	17.76	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1915216	16.60	PPBV	100
17) ACETONITRILE	4.479	41	467576	13.59	PPBV	99
18) ACROLEIN	4.571	56	282182	15.70	PPBV	95
19) FREON 123	4.595	83	2144663m	18.75	PPBV	
20) FREON 123A	4.632	117	1303591	18.34	PPBV	97
21) TRICHLOROFLUOROMETHANE	4.797	101	2321202	14.25	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	1635668	14.11	PPBV	99
23) ACETONE	4.669	58	334468	16.18	PPBV	99
24) PENTANE	5.072	42	880198	14.37	PPBV	99
25) IODOMETHANE	5.256	142	3031933	20.19	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	959349	17.96	PPBV	99
27) CARBON DISULFIDE	5.672	76	2608827	18.51	PPBV	99
28) ETHANOL	4.320	45	298730	13.05	PPBV	99
29) BROMOETHENE	4.485	106	957242	20.43	PPBV	100
30) ACRYLONITRILE	5.042	52	624246	17.51	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	836157	17.45	PPBV	98
32) 3-CHLOROPROPENE	5.525	76	430205	19.53	PPBV	96
33) FREON 113	5.641	151	1722837	18.38	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	990650	18.16	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.372	59	1868378	16.33	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	2584253	19.14	PPBV	99
37) TETRAHYDROFURAN	7.850	72	399188	22.19	PPBV	98
38) HEXANE	7.385	57	1526495	20.27	PPBV	96
39) VINYL ACETATE	6.571	86	179566	19.94	PPBV #	89
40) 1,1-DICHLOROETHANE	6.424	63	1823762	18.32	PPBV	100
41) METHYL ETHYL KETONE	6.791	72	430294	22.94	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	1068157	19.00	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	472029	23.11	PPBV	94
44) ETHYL ACETATE	7.415	61	340212m	22.04	PPBV	
45) METHYL ACRYLATE	7.409	55	1885856	21.07	PPBV	99
46) CHLOROFORM	7.483	83	2134176	18.57	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	1747860	19.75	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.413	97	2289683	18.23	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	2555242	18.43	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	1561332	19.15	PPBV		100
52)	BENZENE	8.853	78	2903342	22.68	PPBV		100
53)	CYCLOHEXANE	9.110	84	1139585	22.41	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.355	71	573637	22.39	PPBV		100
55)	TRICHLOROETHYLENE	9.893	95	1474907	21.65	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	1173566	21.61	PPBV		100
57)	DIBROMOMETHANE	9.636	174	1578012	21.13	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	2306359	23.37	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	2548286	21.01	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	4564310	20.94	PPBV		99
61)	1,4-DIOXANE	9.893	88	653321	24.77	PPBV	#	20
62)	HEPTANE	10.187	43	1555190	19.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	1000168	25.22	PPBV		99
64)	METHYL ISOBUTYL KETONE	10.786	58	969468	23.79	PPBV		97
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1985103	23.56	PPBV		97
66)	TOLUENE	11.722	92	2187710	23.93	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	1738240m	22.65	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	1772531	22.91	PPBV		98
69)	1,1,2-TRICHLOROETHANE	11.447	83	1196566	23.91	PPBV		100
71)	2-HEXANONE	12.004	58	1425280	25.09	PPBV		96
72)	ETHYL METHACRYLATE	12.022	69	1817206	25.28	PPBV		97
73)	TETRACHLOROETHYLENE	12.879	164	1702539	20.29	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	2900352	20.55	PPBV		99
75)	1,2-DIBROMOETHANE	12.395	107	2366337	22.95	PPBV		100
76)	OCTANE	12.744	43	2238080	18.84	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	1899714	20.52	PPBV		100
78)	CHLOROBENZENE	13.582	112	3046547	20.02	PPBV		99
79)	ETHYLBENZENE	13.986	91	4800136	22.00	PPBV		99
80)	m,p-XYLENE	14.188	106	3838940	46.33	PPBV		95
81)	o-XYLENE	14.683	106	1866956	24.57	PPBV		98
82)	STYRENE	14.573	104	2939414	25.25	PPBV		99
83)	NONANE	14.934	43	2271246	19.27	PPBV		98
84)	BROMOFORM	14.249	173	3083788	21.19	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	3171683	23.67	PPBV		99
87)	1,2,3-TRICHLOROPROPANE	14.818	75	2166410	19.01	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	5426205	21.38	PPBV		99
89)	BROMOBENZENE	15.375	77	2635582	19.84	PPBV		99
90)	2-CHLOROTOLUENE	15.772	126	1458347	21.55	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	1498983	22.21	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	5359201	23.50	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	4517483	21.37	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	2401651	23.73	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1027177	23.44	PPBV		95
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	4619537	22.68	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	3436542	21.01	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	4433280	23.83	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	3529112	20.84	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	1236753	22.03	PPBV		92
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	4652009	21.34	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	1464768	22.76	PPBV		94
103)	o-DICHLOROBENZENE	16.977	146	3353483	20.30	PPBV		99
104)	n-BUTYLBENZENE	17.265	134	1447206	24.56	PPBV		93
105)	HEXACHLOROETHANE	17.608	117	2435886	22.06	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	3259497	18.79	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	3337105	28.94	PPBV		100
108)	NAPHTHALENE	18.666	128	7329968	26.85	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	5936529	16.52	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

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

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

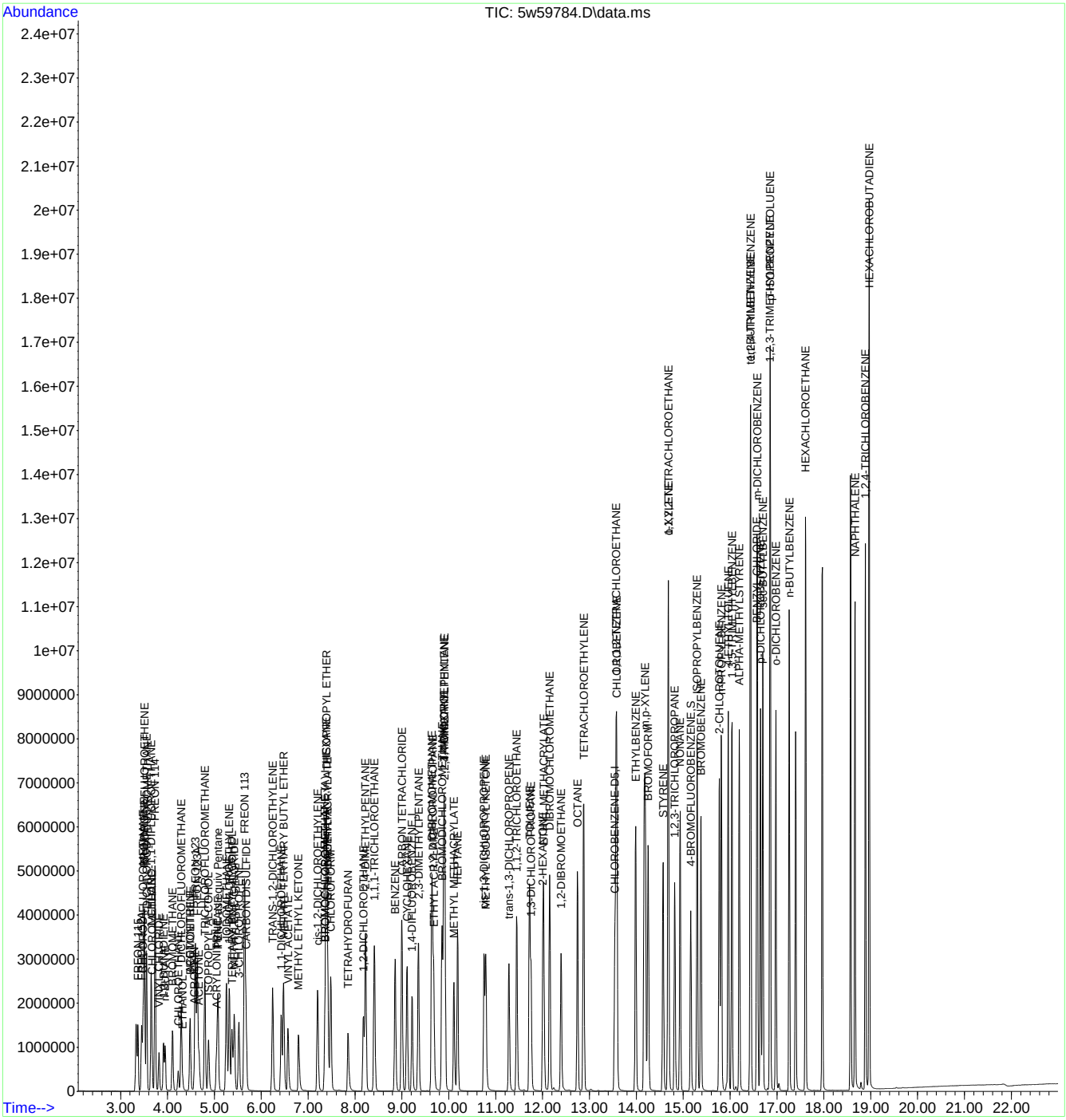
7.2.7

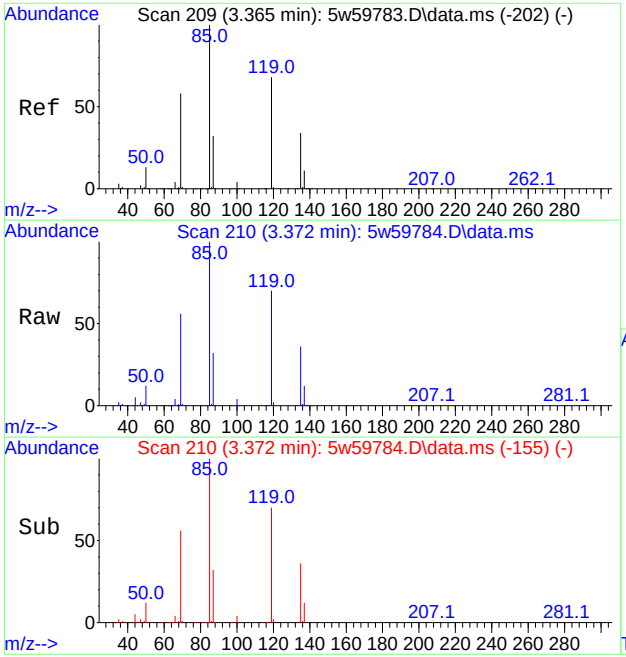
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

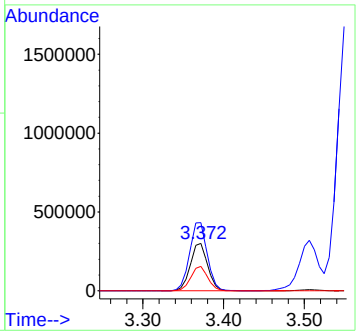


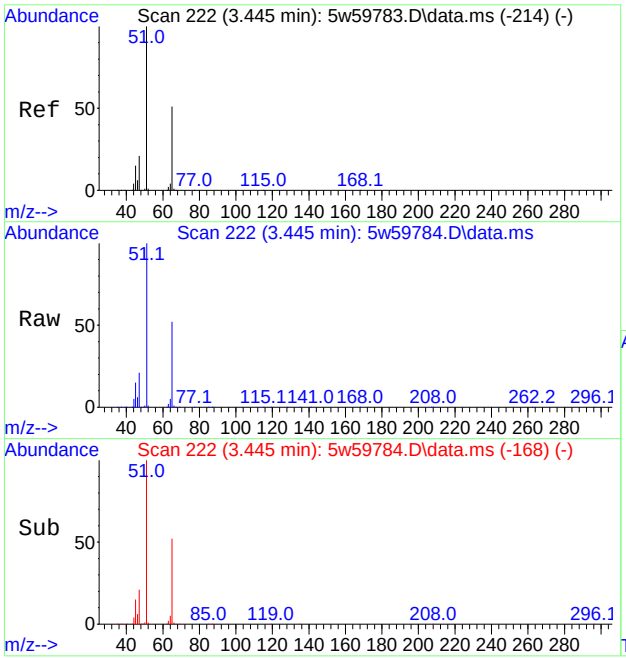


#2
FREON 115
Concen: 7.75 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:119 Resp: 450963

Ion	Ratio	Lower	Upper
119	100		
85	146.0	116.2	176.2
135	50.3	20.6	80.6

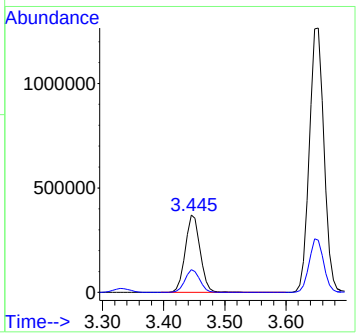


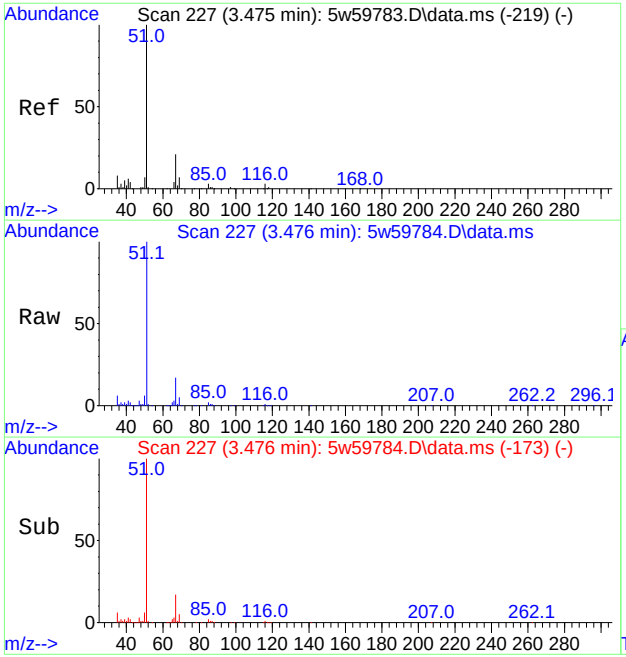


#3
FREON 152A
Concen: 18.20 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 629601

Ion	Ratio	Lower	Upper
65	100		
45	29.1	0.0	60.0

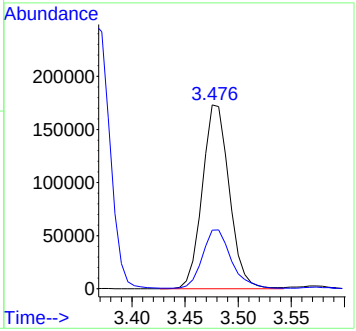


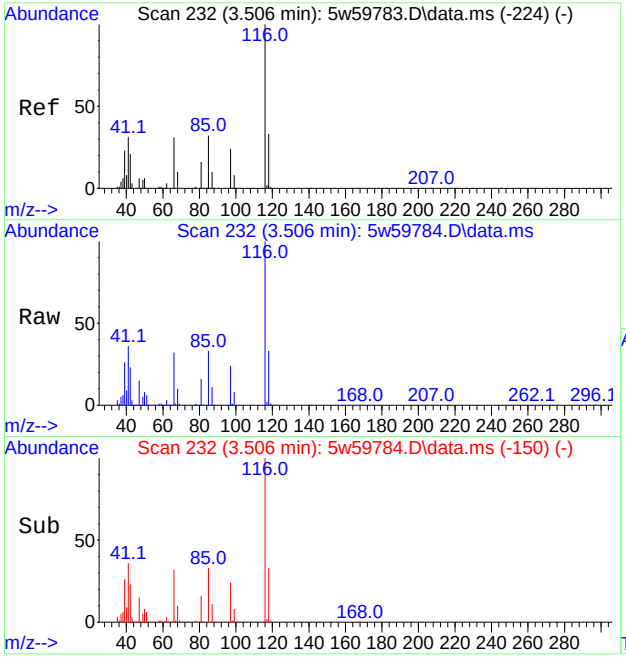


#4
CHLORODIFLUOROMETHANE
Concen: 19.32 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 306106

Ion	Ratio	Lower	Upper
67	100		
69	31.9	1.0	61.0

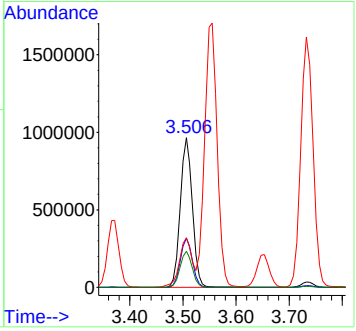


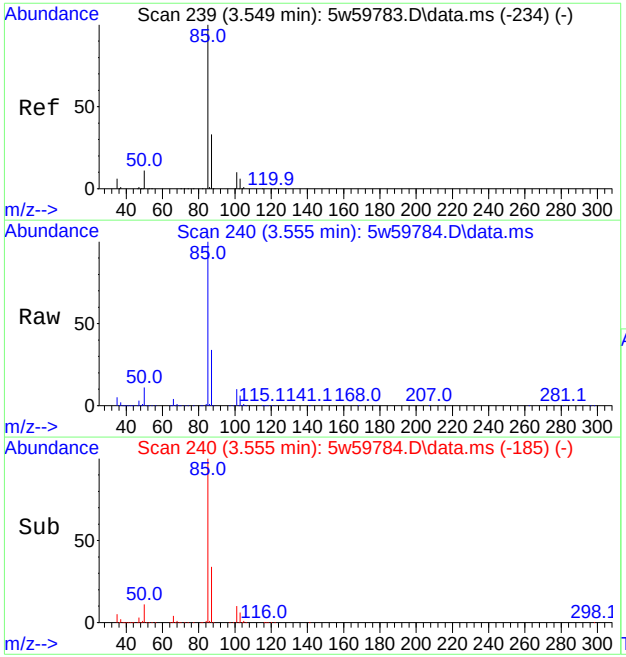


#5
CHLOROTRIFLUOROETHENE
Concen: 20.38 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:116 Resp: 1520054

Ion	Ratio	Lower	Upper
116	100		
118	32.8	22.9	42.5
85	35.4	23.7	44.1
97	24.2	17.0	31.6

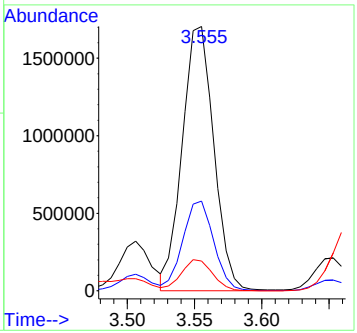


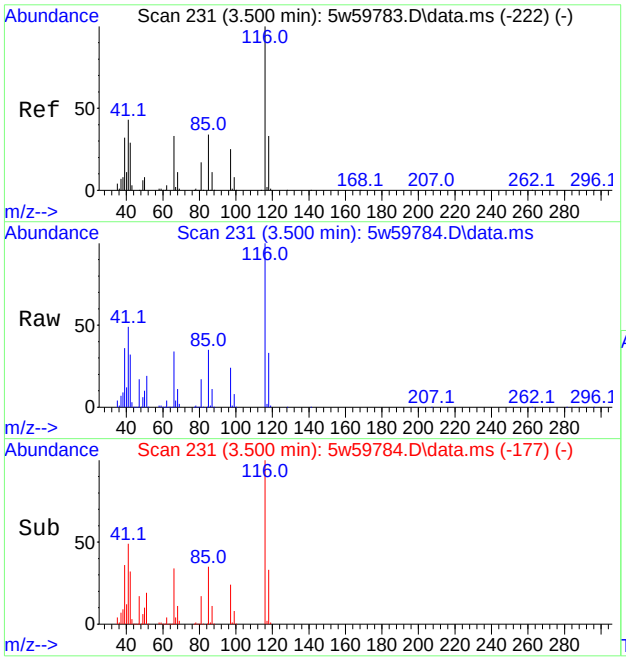


#6
DICHLORODIFLUOROMETHANE
Concen: 18.80 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2793626

Ion	Ratio	Lower	Upper
85	100		
87	33.4	2.5	62.5
50	11.7	0.0	41.7

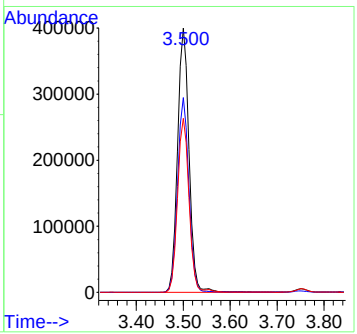


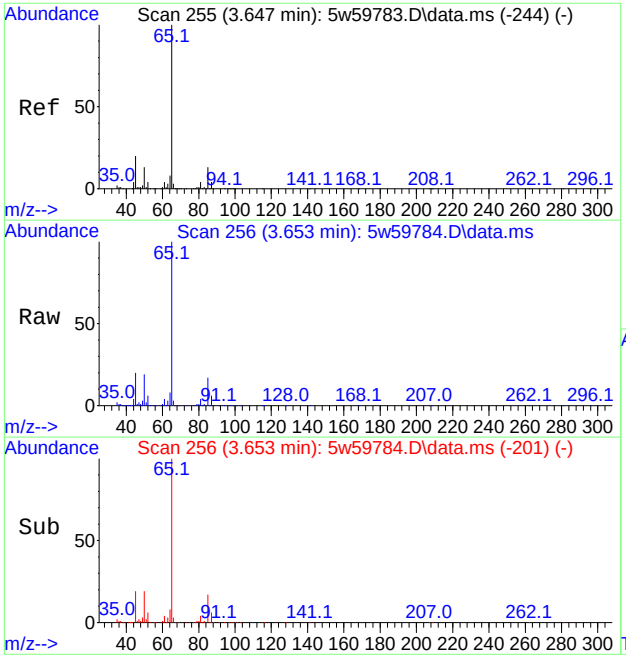


#7
PROPYLENE
Concen: 17.76 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 679227

Ion	Ratio	Lower	Upper
41	100		
39	73.5	45.1	105.1
42	66.1	36.3	96.3

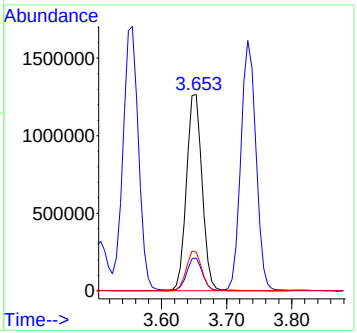


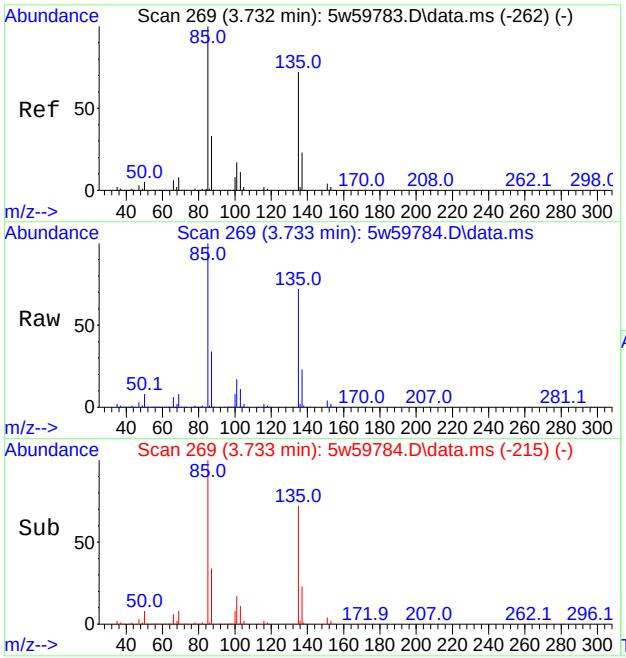


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 15.73 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 2117806

Ion	Ratio	Lower	Upper
65	100		
85	16.6	11.5	21.3
45	20.2	14.0	26.0

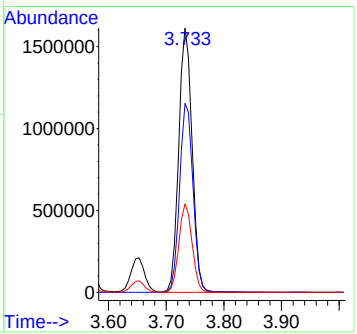


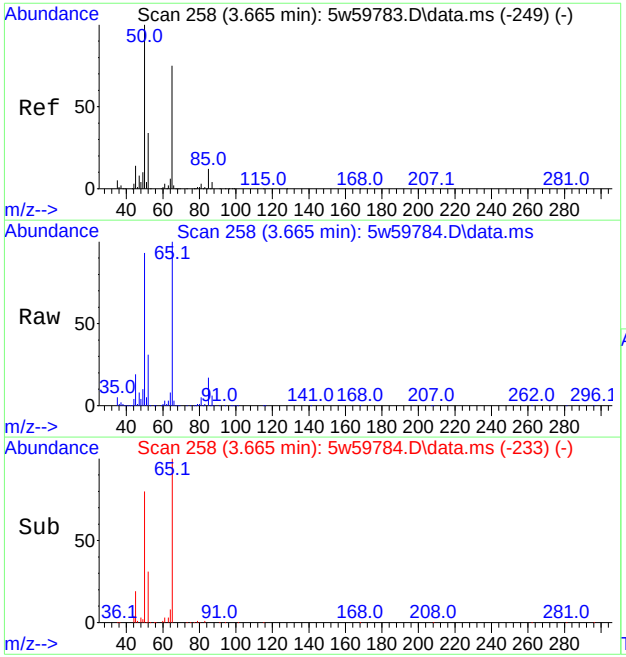


#9
FREON 114
Concen: 20.44 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2612576

Ion	Ratio	Lower	Upper
85	100		
135	71.9	40.5	100.5
87	33.3	3.0	63.0

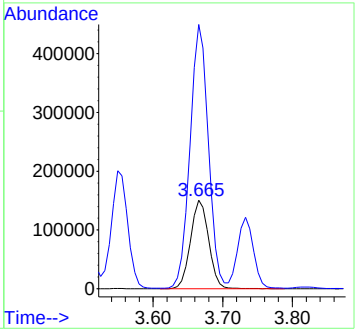


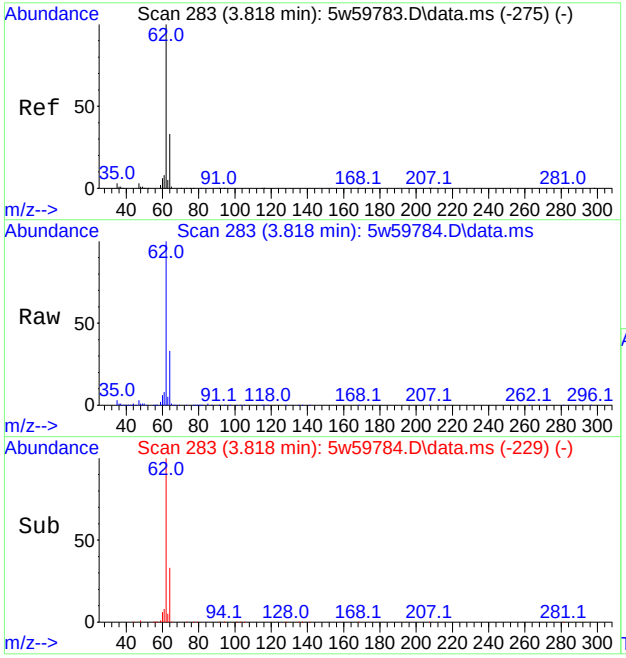


#10
CHLOROMETHANE
Concen: 17.35 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 274402

Ion	Ratio	Lower	Upper
52	100		
50	298.2	267.9	327.9

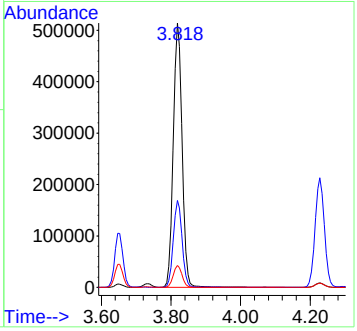


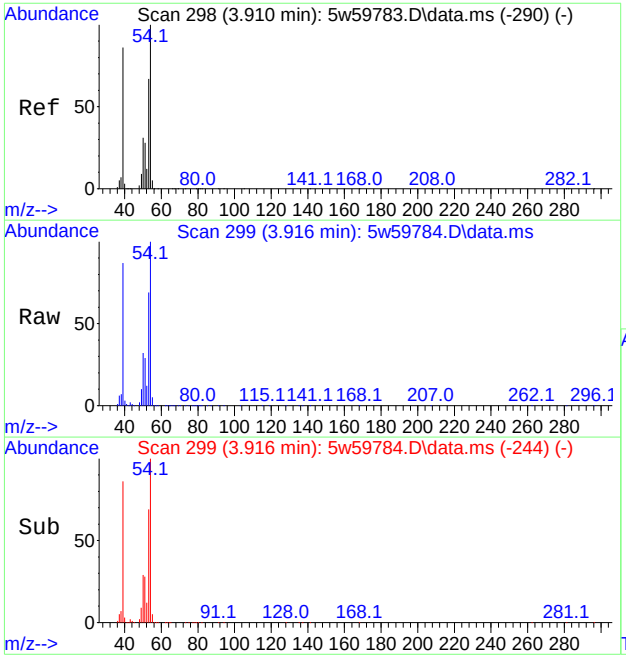


#11
VINYL CHLORIDE
Concen: 18.27 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 907868

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.3	0.0	38.2

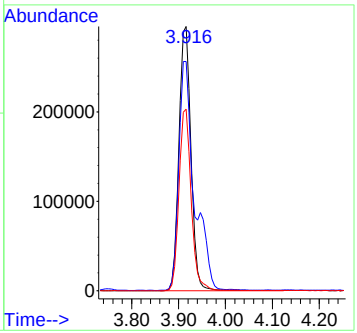


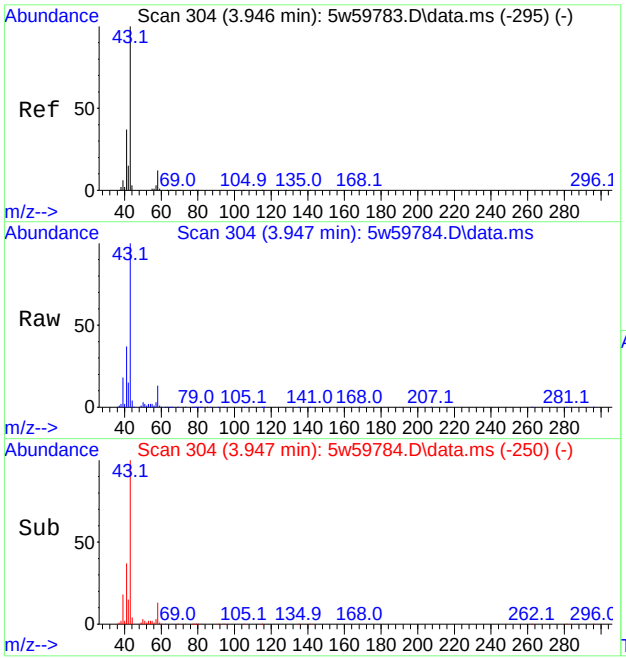


#12
1,3-BUTADIENE
Concen: 15.76 PPBV m
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 54 Resp: 526623

Ion	Ratio	Lower	Upper
54	100		
39	93.3	82.0	142.0
53	70.7	40.2	100.2

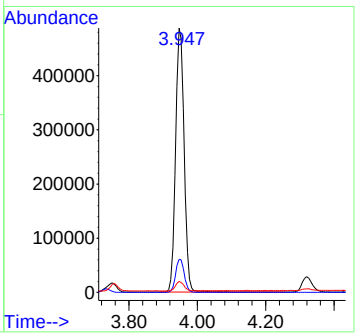


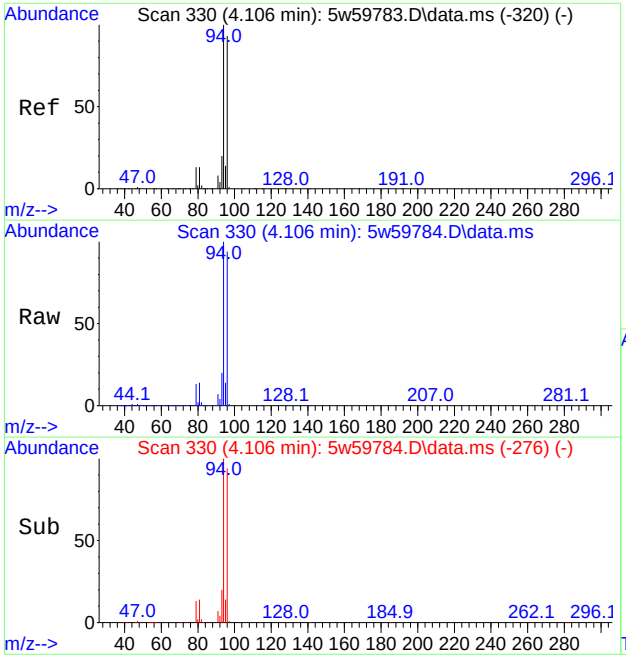


#13
n-BUTANE
Concen: 14.02 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 848889

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	3.5	0.0	34.9

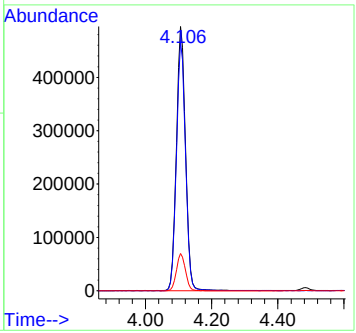


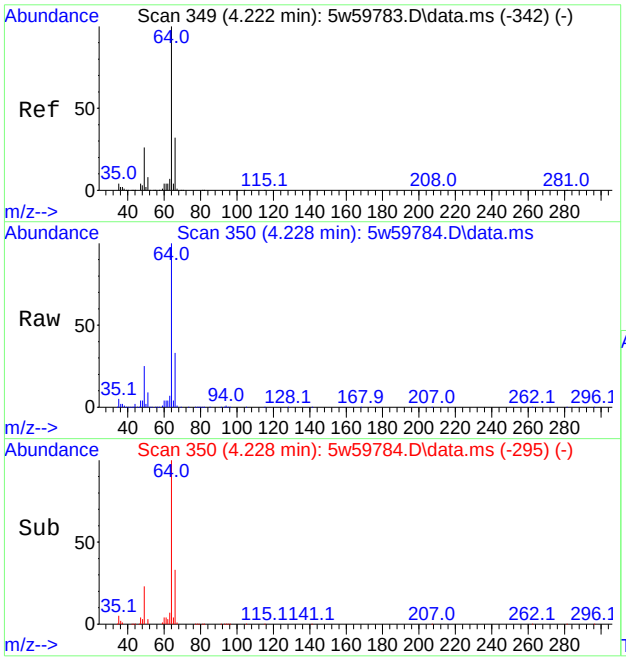


#14
BROMOMETHANE
Concen: 19.40 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 94 Resp: 947413

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

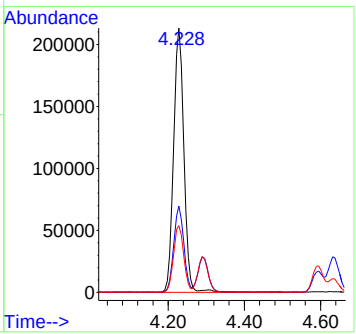


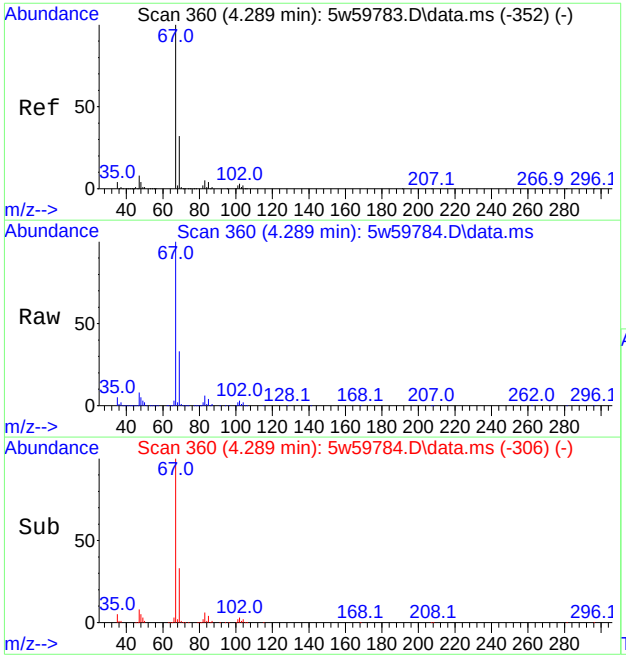


#15
CHLOROETHANE
Concen: 17.76 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 64 Resp: 401918

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

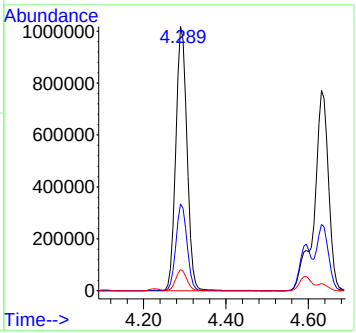


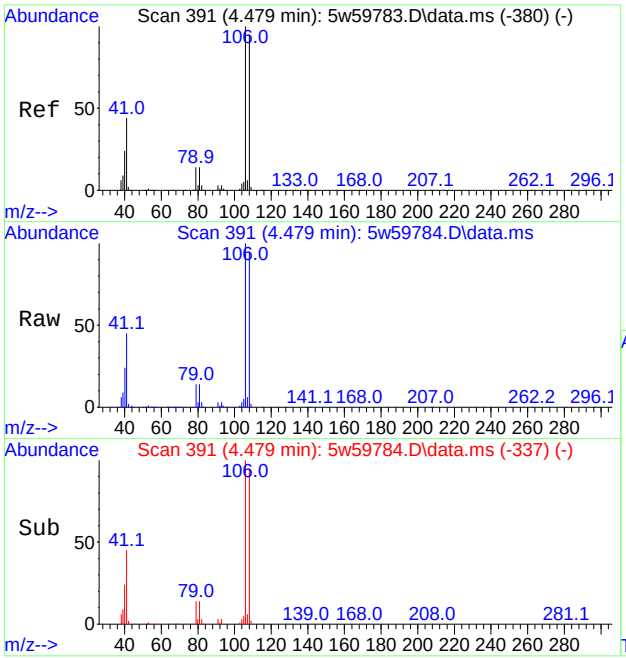


#16
DICHLOROFLUOROMETHANE
Concen: 16.60 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 1915216

Ion	Ratio	Lower	Upper
67	100		
69	32.8	22.7	42.3
47	8.1	5.6	10.4

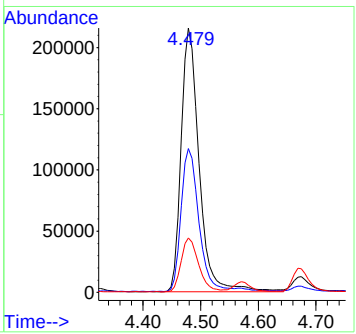


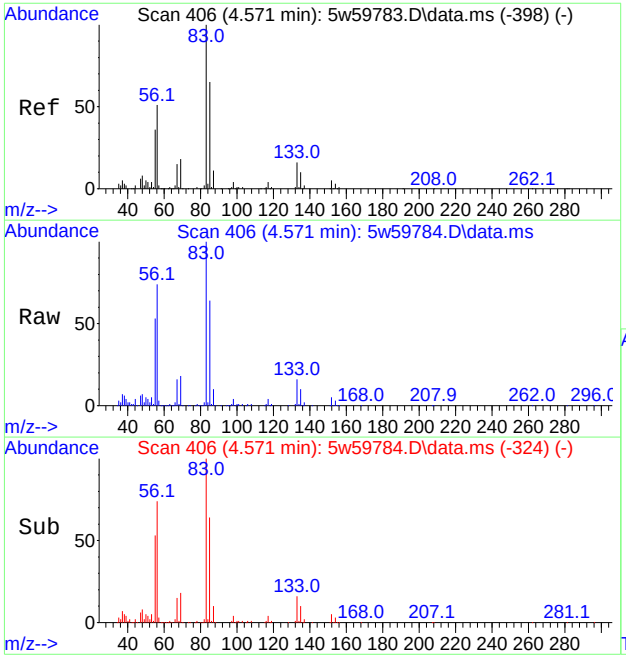


#17
ACETONITRILE
Concen: 13.59 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 467576

Ion	Ratio	Lower	Upper
41	100		
40	54.4	37.9	70.5
39	19.7	13.4	24.8

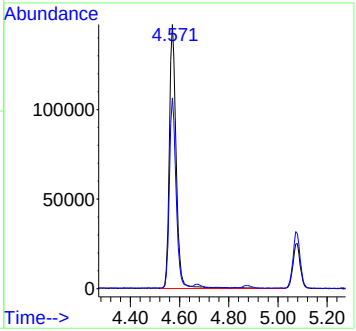


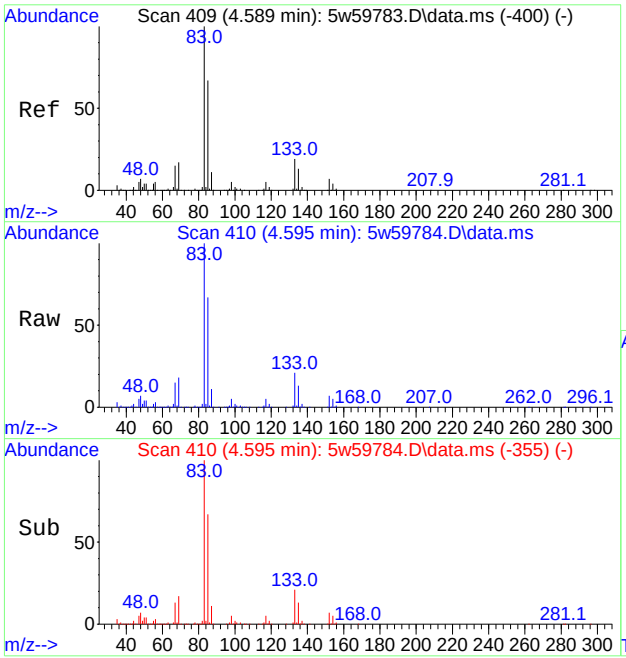


#18
ACROLEIN
Concen: 15.70 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 56 Resp: 282182

Ion	Ratio	Lower	Upper
56	100		
55	70.3	46.6	86.6

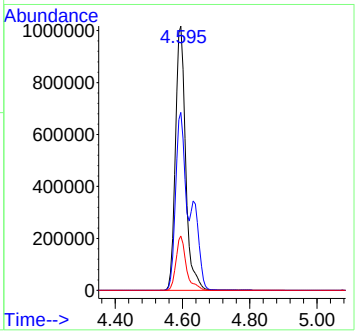


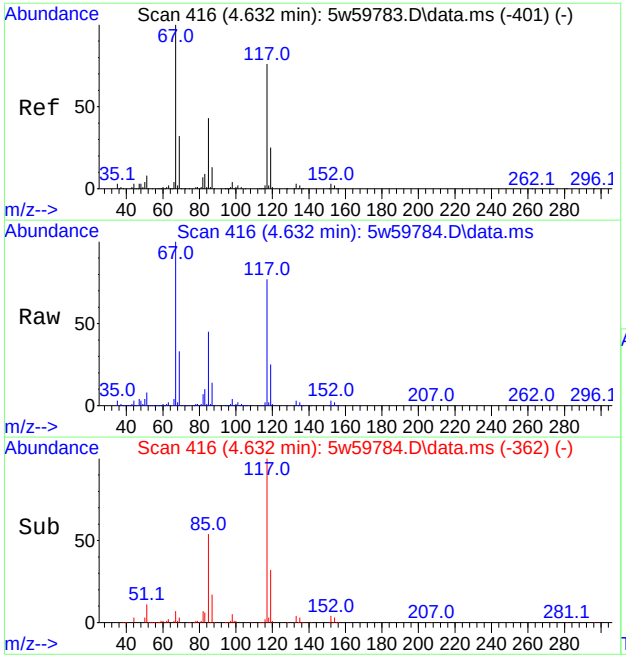


#19
FREON 123
Concen: 18.75 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2144663

Ion	Ratio	Lower	Upper
83	100		
85	66.7	34.0	94.0
133	20.9	0.0	50.7

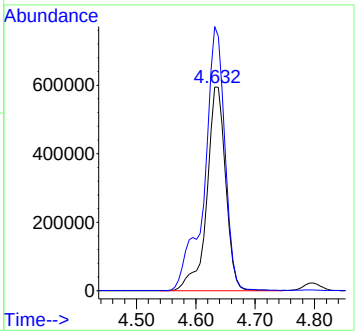


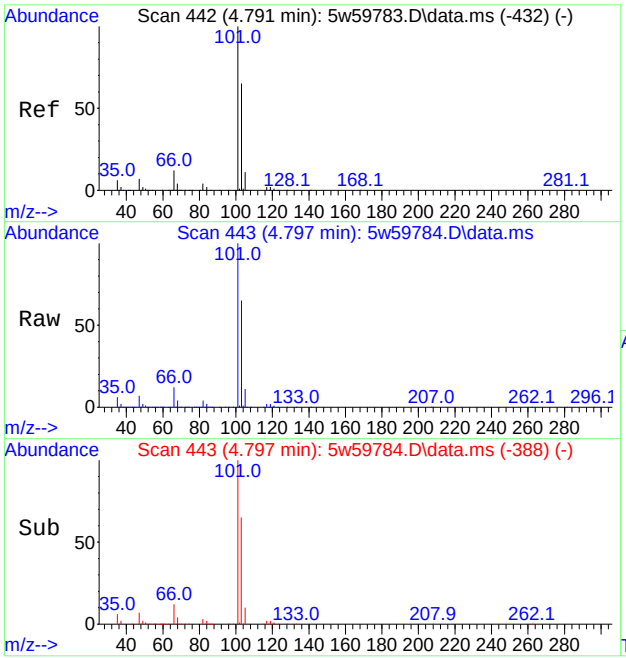


#20
FREON 123A
Concen: 18.34 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 1303591

Ion	Ratio	Lower	Upper
117	100		
67	141.5	114.6	174.6

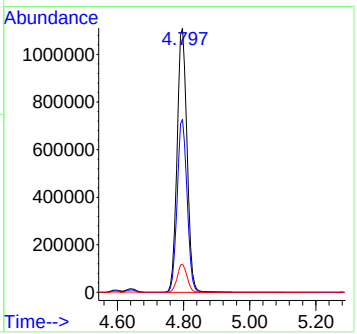


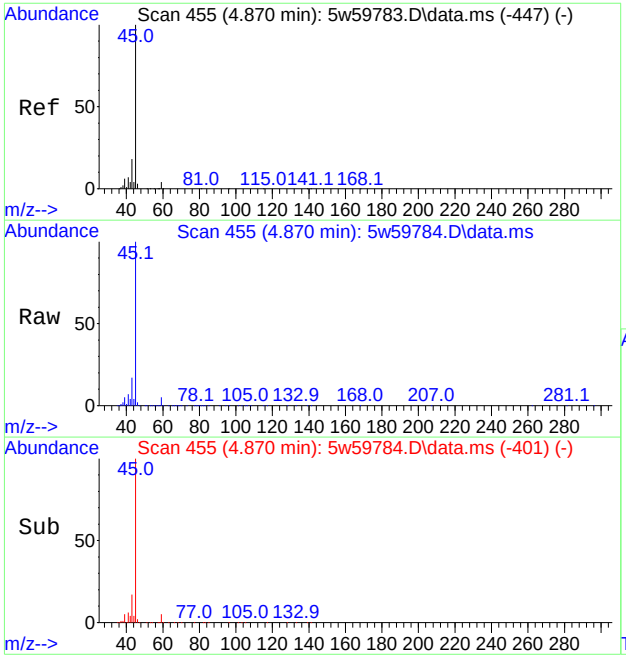


#21
TRICHLOROFLUOROMETHANE
Concen: 14.25 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:101 Resp: 2321202

Ion	Ratio	Lower	Upper
101	100		
103	65.6	35.0	95.0
105	10.8	0.0	40.7

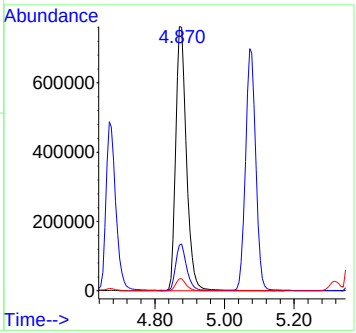


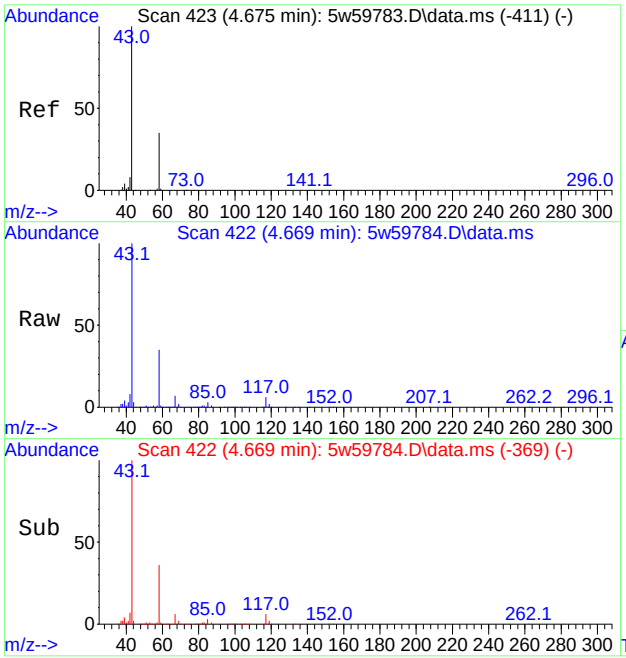


#22
ISOPROPYL ALCOHOL
Concen: 14.11 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 1635668

Ion	Ratio	Lower	Upper
45	100		
43	17.2	0.0	47.8
59	4.6	0.0	34.1

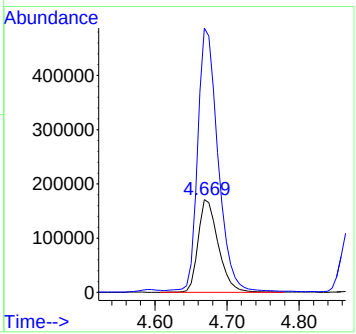


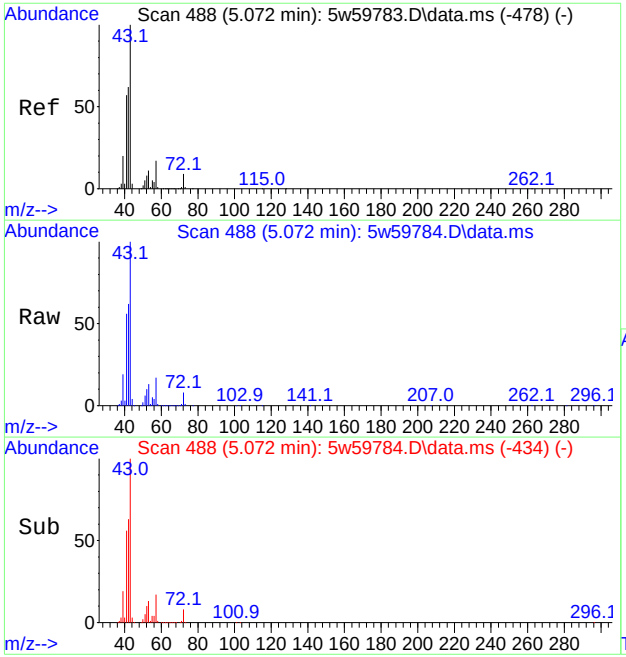


#23
ACETONE
Concen: 16.18 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 334468

Ion	Ratio	Lower	Upper
58	100		
43	284.6	252.3	312.3

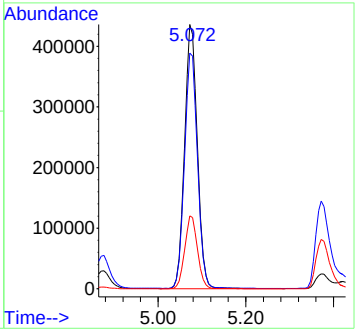


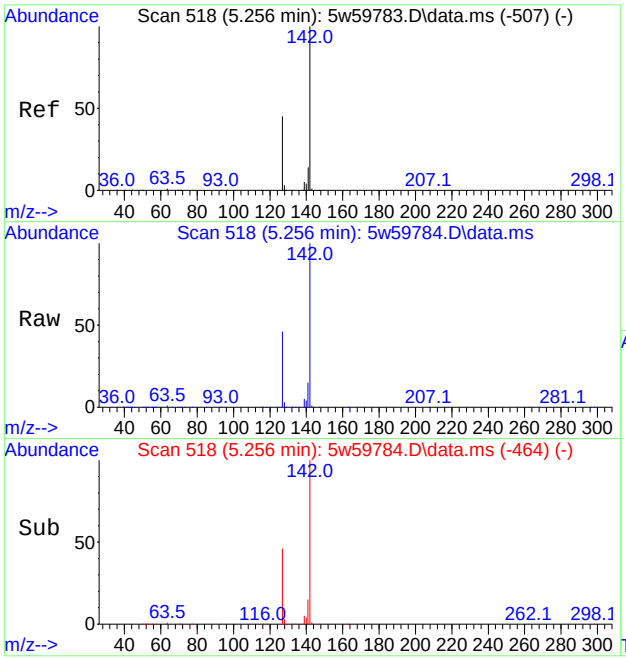


#24
PENTANE
Concen: 14.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 42 Resp: 880198

Ion	Ratio	Lower	Upper
42	100		
41	91.2	62.3	122.3
57	27.8	0.0	57.7

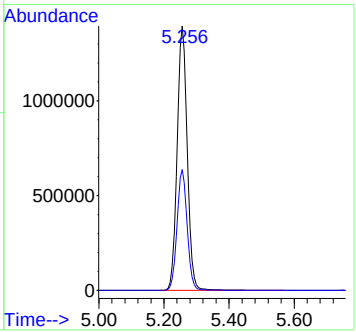


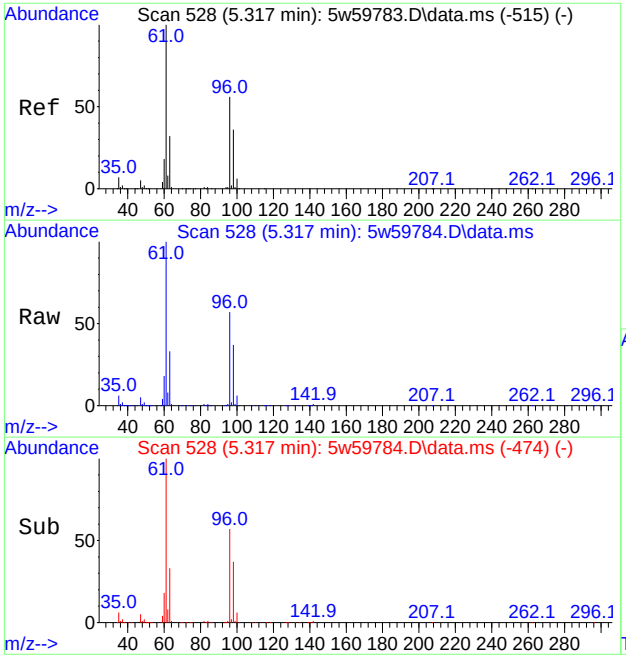


#25
IODOMETHANE
Concen: 20.19 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:142 Resp: 3031933

Ion	Ratio	Lower	Upper
142	100		
127	45.9	16.0	76.0

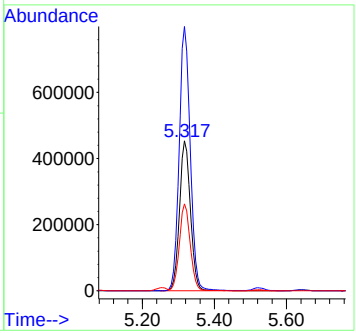


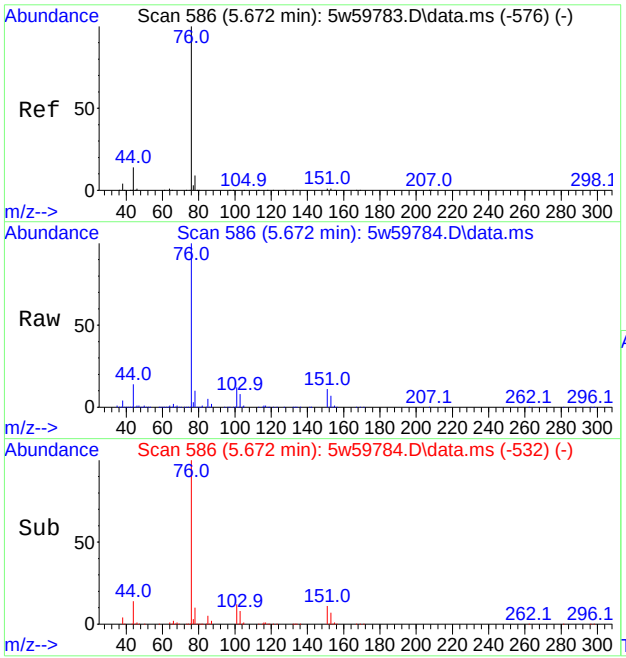


#26
1,1-DICHLOROETHYLENE
Concen: 17.96 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 959349

Ion	Ratio	Lower	Upper
96	100		
61	177.3	148.5	208.5
63	57.4	27.4	87.4

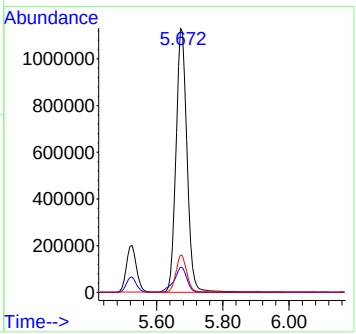


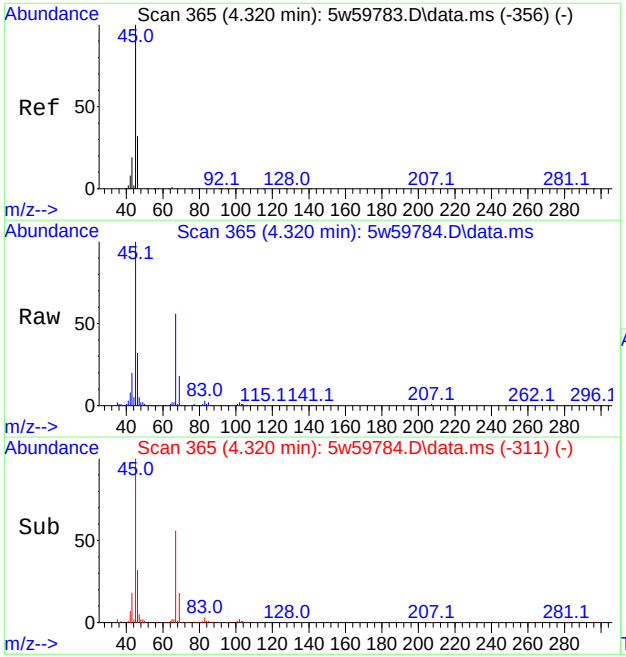


#27
CARBON DISULFIDE
Concen: 18.51 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 2608827

Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	41.5
44	14.0	0.0	44.6

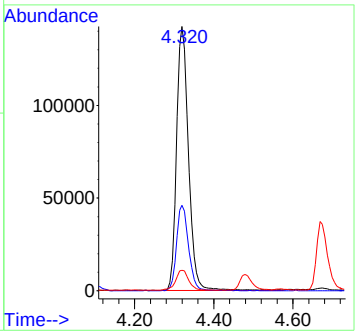


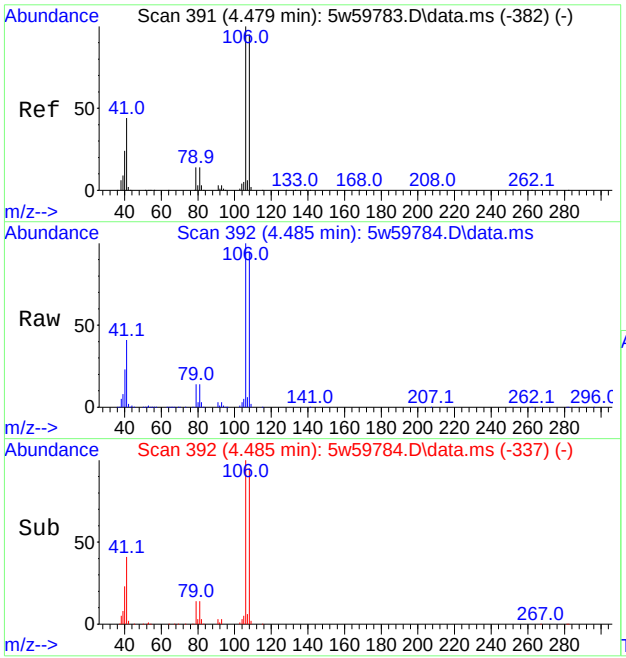


#28
ETHANOL
Concen: 13.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 298730

Ion	Ratio	Lower	Upper
45	100		
46	32.8	2.0	62.0
42	8.4	0.0	38.5

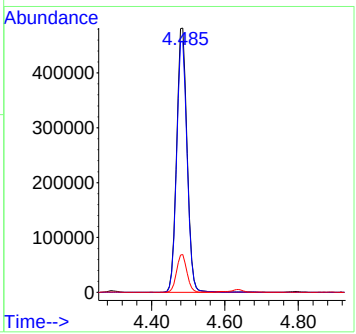


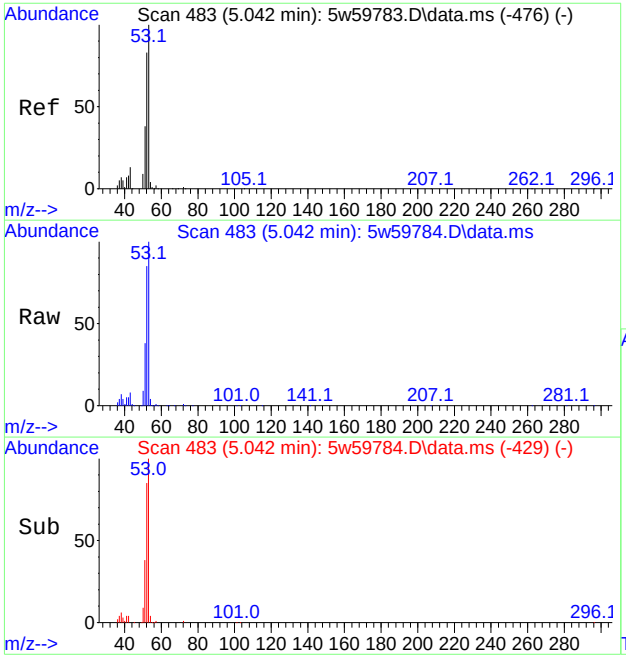


#29
BROMOETHENE
Concen: 20.43 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 957242

Ion	Ratio	Lower	Upper
106	100		
108	95.3	65.6	125.6
81	14.2	0.0	43.9

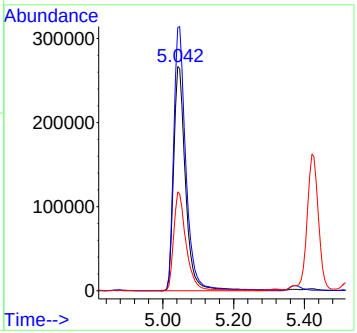


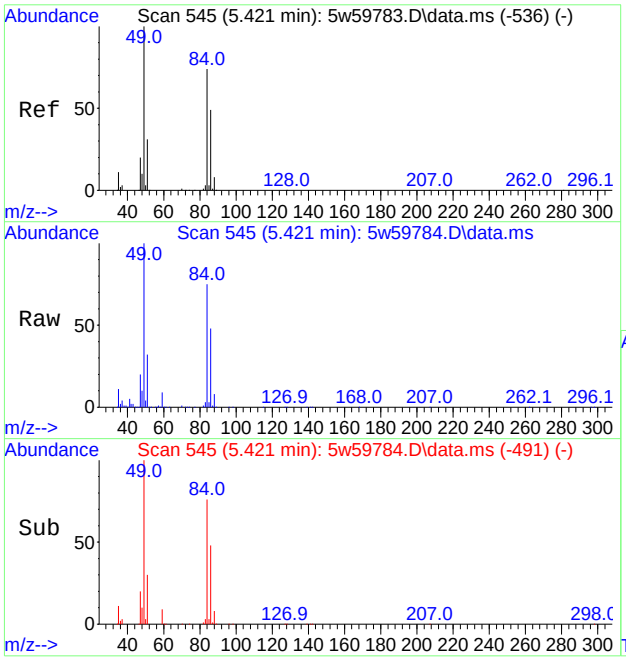


#30
ACRYLONITRILE
Concen: 17.51 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 624246

Ion	Ratio	Lower	Upper
52	100		
53	121.1	85.8	159.4
51	45.8	32.3	60.1

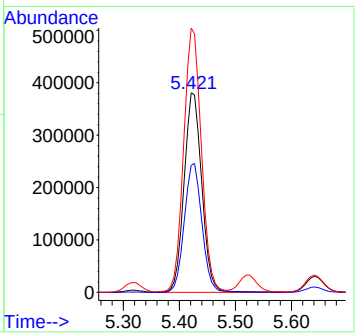


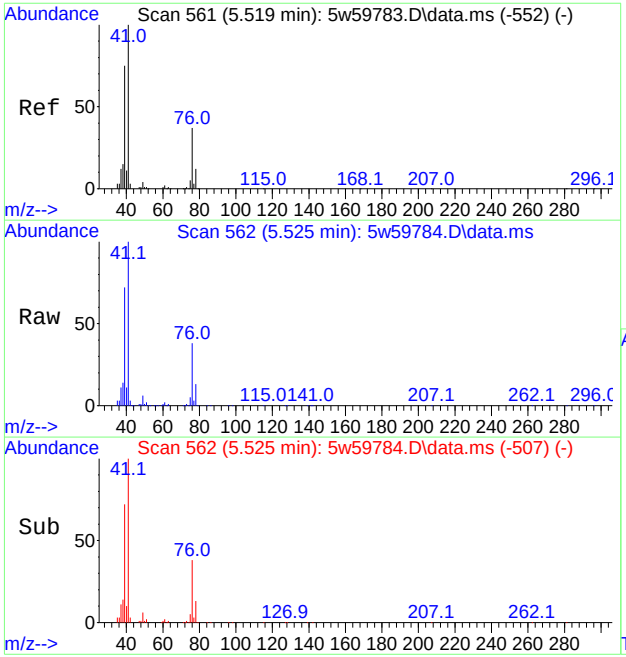


#31
METHYLENE CHLORIDE
Concen: 17.45 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 836157

Ion	Ratio	Lower	Upper
84	100		
86	64.4	35.2	95.2
49	132.4	105.3	165.3

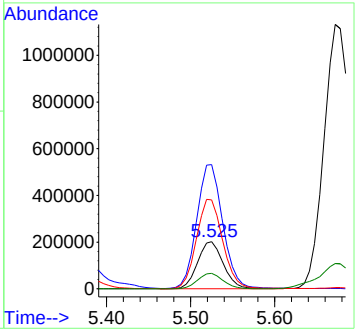


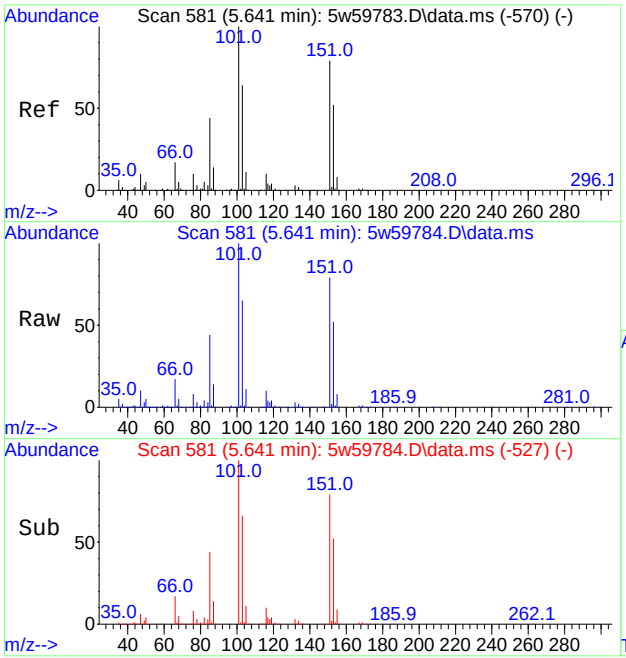


#32
3-CHLOROPROPENE
Concen: 19.53 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 430205

Ion	Ratio	Lower	Upper
76	100		
41	267.1	240.8	300.8
39	193.9	173.6	233.6
78	32.7	2.8	62.8

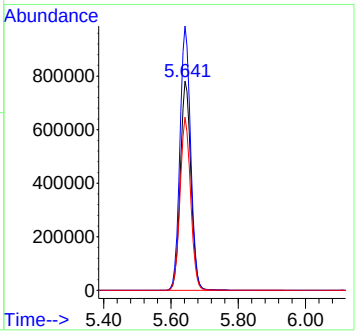


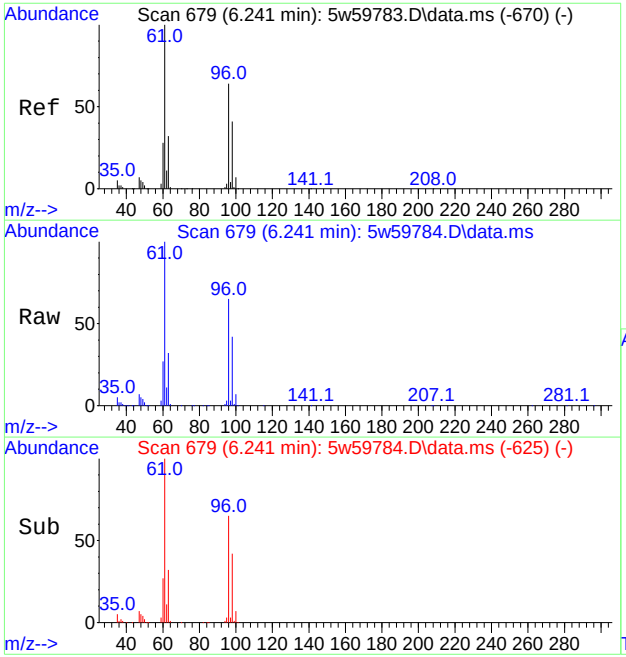


#33
FREON 113
Concen: 18.38 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:151 Resp: 1722837

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	82.1	52.5	112.5

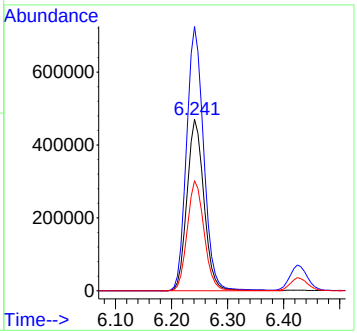


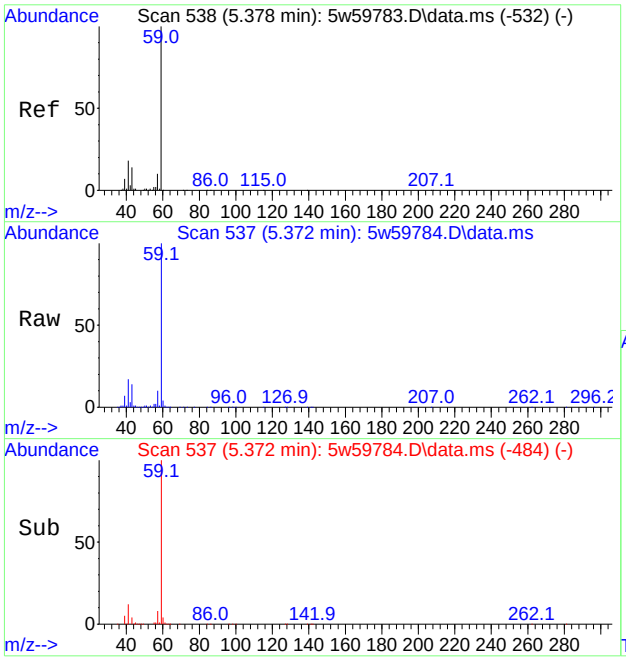


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 18.16 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 990650

Ion	Ratio	Lower	Upper
96	100		
61	155.3	126.4	186.4
98	64.1	34.1	94.1

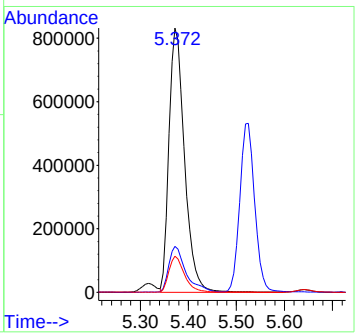


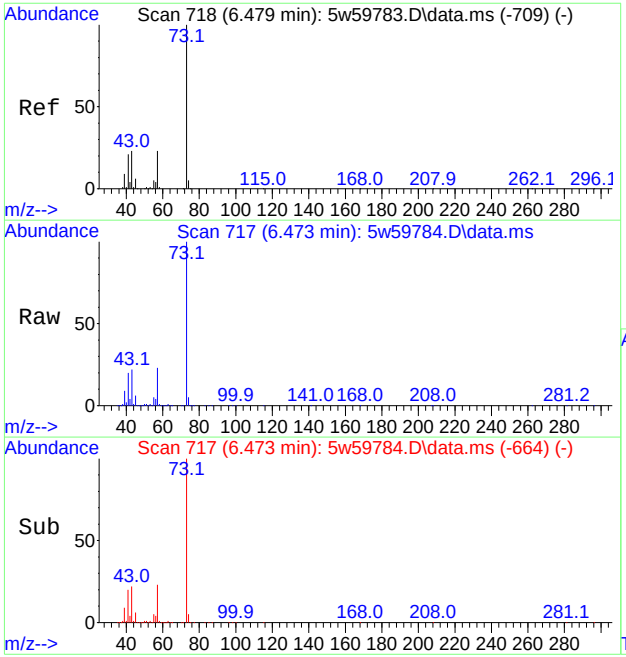


#35
TERTIARY BUTYL ALCOHOL
Concen: 16.33 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 1868378

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.7	0.0	44.1

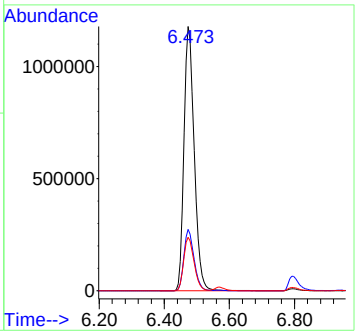


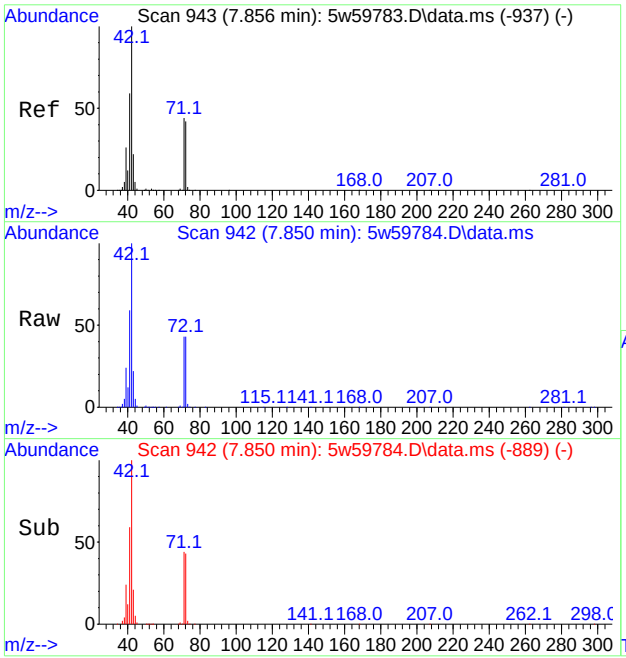


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.14 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 73 Resp: 2584253

Ion	Ratio	Lower	Upper
73	100		
57	22.8	0.0	53.1
41	20.4	0.0	50.6

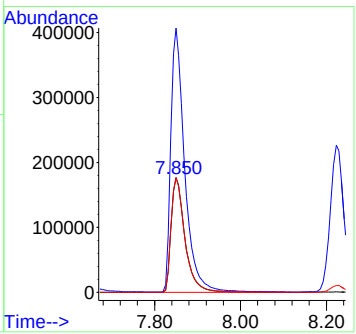


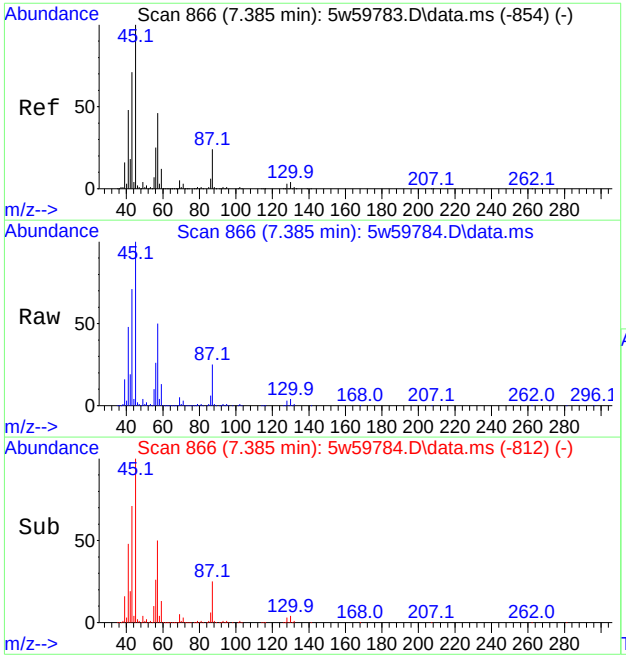


#37
TETRAHYDROFURAN
Concen: 22.19 PPBV
RT: 7.850 min Scan# 942
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 399188

Ion	Ratio	Lower	Upper
72	100		
42	228.7	202.4	262.4
71	100.4	71.1	131.1

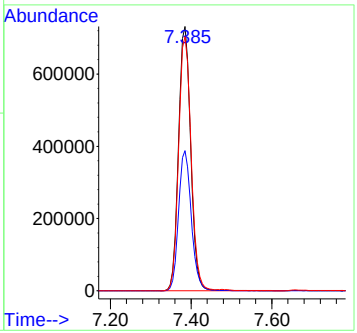


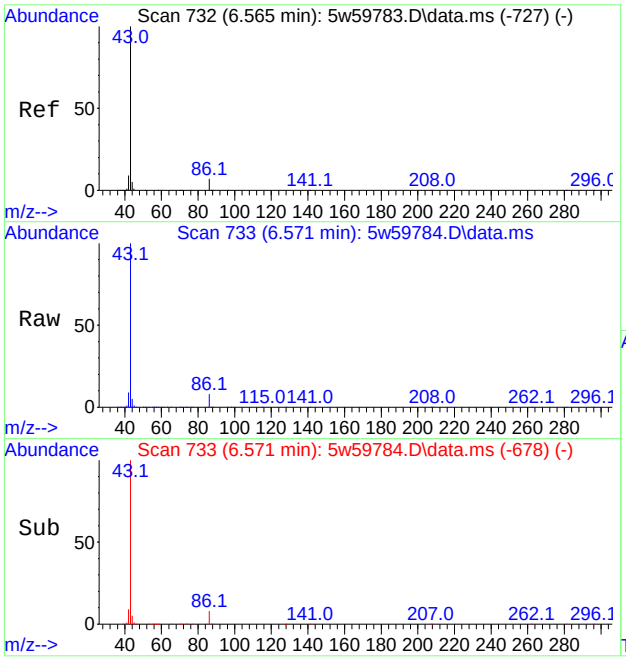


#38
HEXANE
Concen: 20.27 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1526495

Ion	Ratio	Lower	Upper
57	100		
56	55.6	25.9	85.9
41	99.2	74.7	134.7

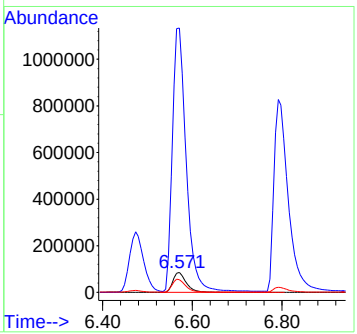


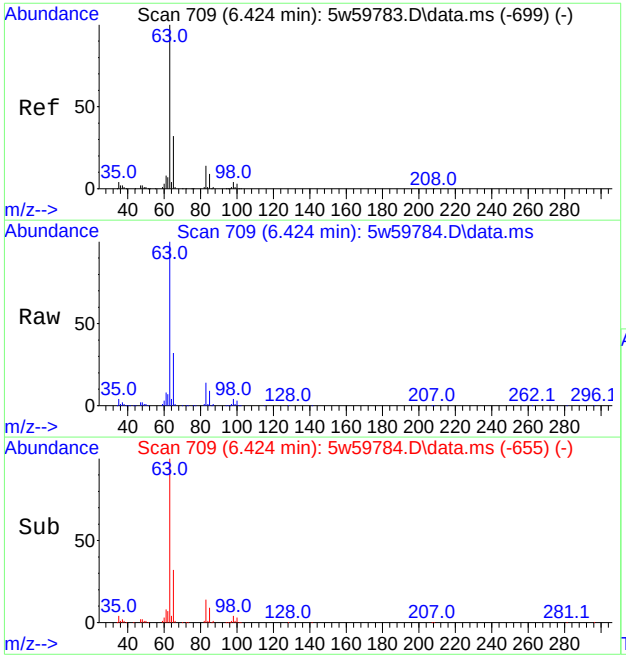


#39
VINYL ACETATE
Concen: 19.94 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 86 Resp: 179566

Ion	Ratio	Lower	Upper
86	100		
43	1346.7	1379.7	1439.7#
44	64.7	36.9	96.9

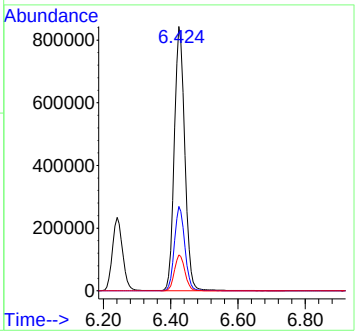


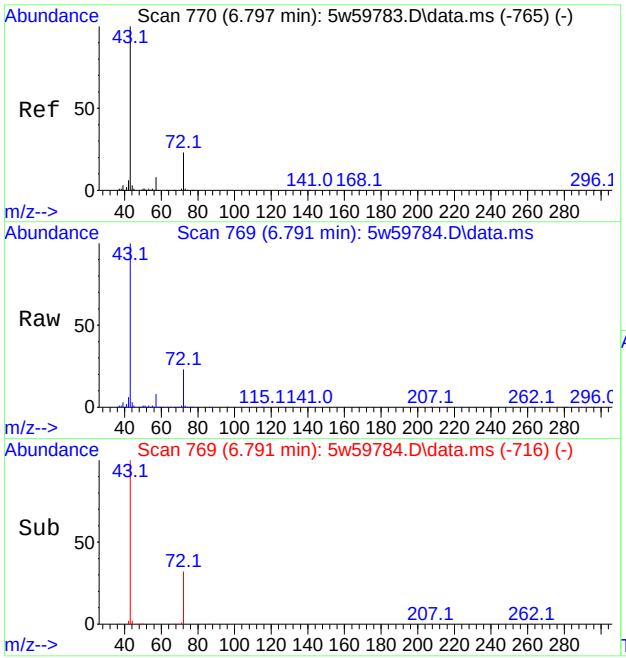


#40
1,1-DICHLOROETHANE
Concen: 18.32 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1823762

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.7	61.7
83	13.6	0.0	43.5

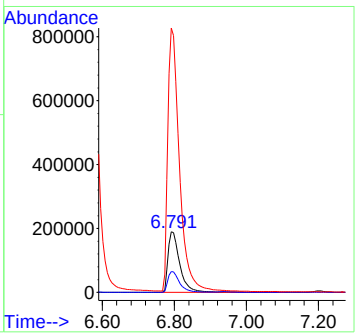


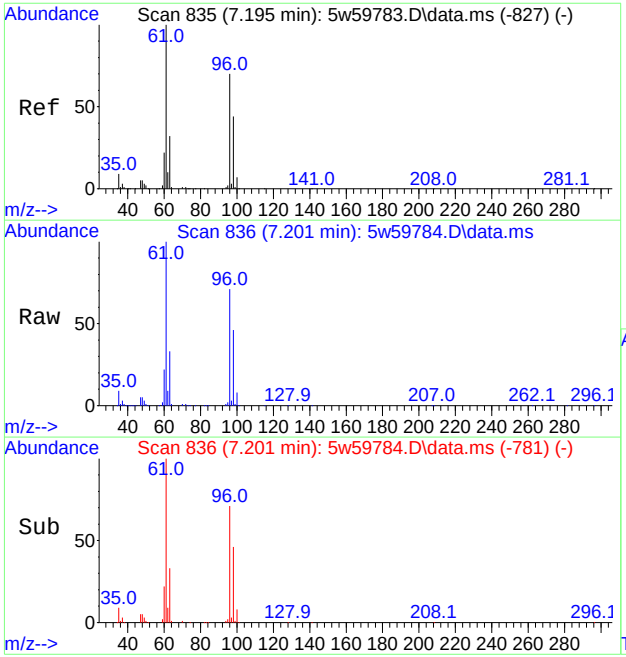


#41
METHYL ETHYL KETONE
Concen: 22.94 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 430294

Ion	Ratio	Lower	Upper
72	100		
57	34.5	4.8	64.8
43	437.4	415.9	475.9

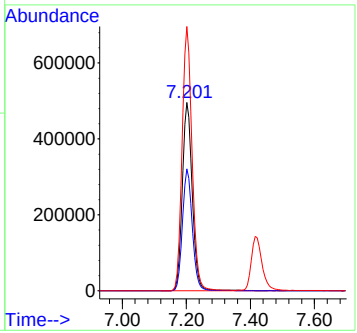


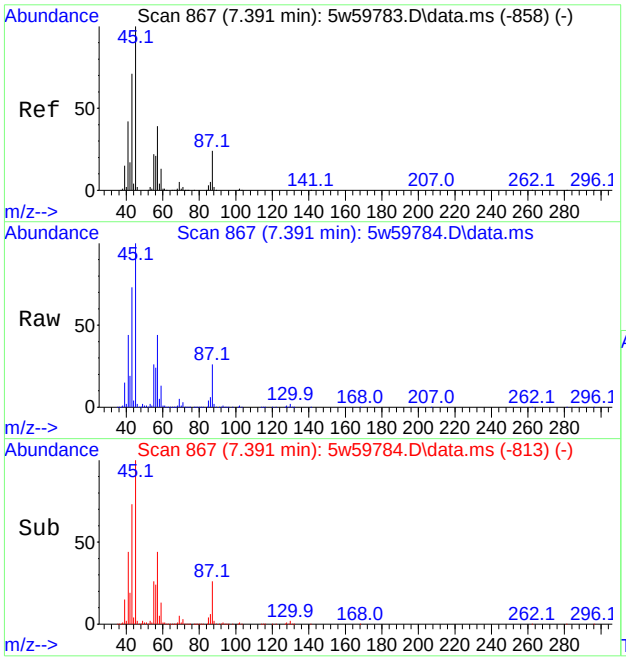


#42
cis-1,2-DICHLOROETHYLENE
Concen: 19.00 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 1068157

Ion	Ratio	Lower	Upper
96	100		
98	64.3	34.0	94.0
61	140.2	111.5	171.5

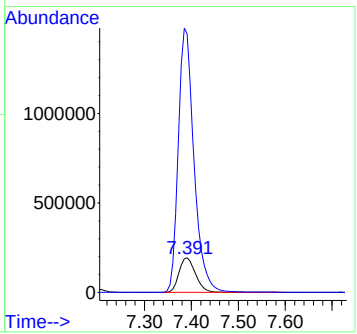


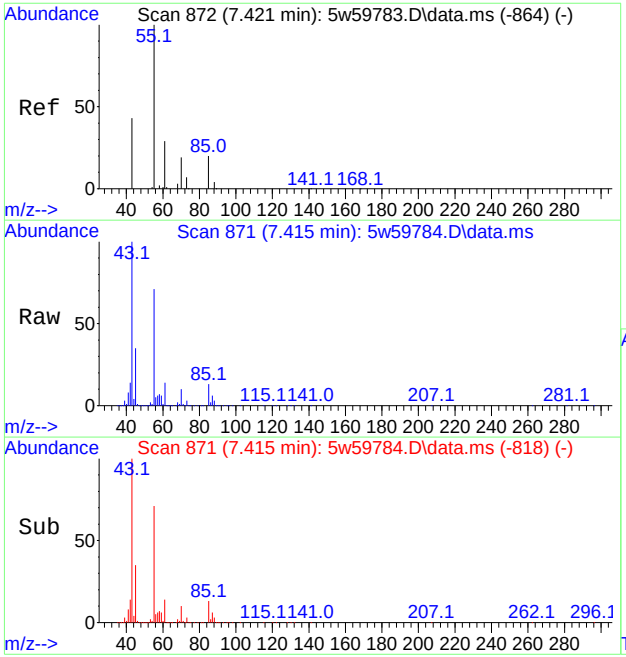


#43
DIISOPROPYL ETHER
Concen: 23.11 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 472029

Ion	Ratio	Lower	Upper
59	100		
45	729.2	720.9	780.9

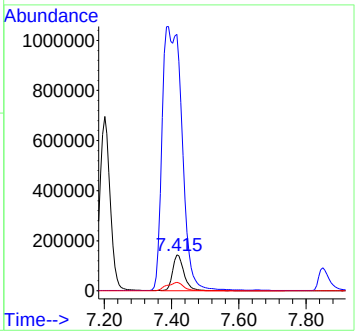


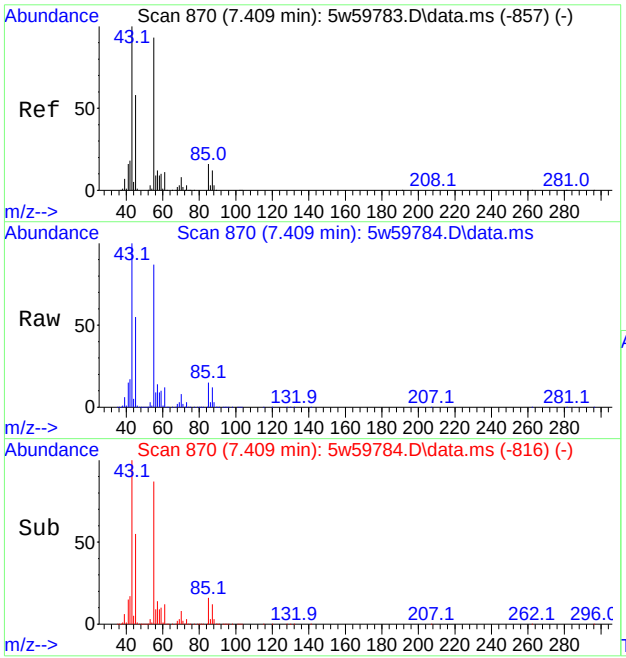


#44
ETHYL ACETATE
Concen: 22.04 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 61 Resp: 340212

Ion	Ratio	Lower	Upper
61	100		
43	580.2	560.5	620.5
88	35.0	4.5	64.5

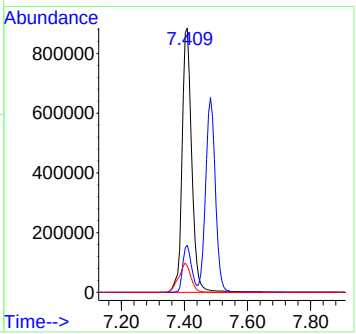


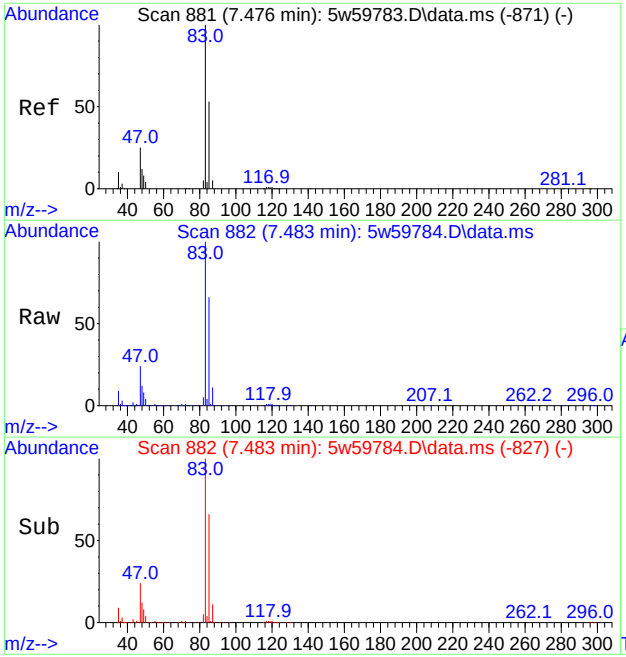


#45
METHYL ACRYLATE
Concen: 21.07 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 1885856

Ion	Ratio	Lower	Upper
55	100		
85	16.1	10.9	20.3
58	13.9	9.4	17.6

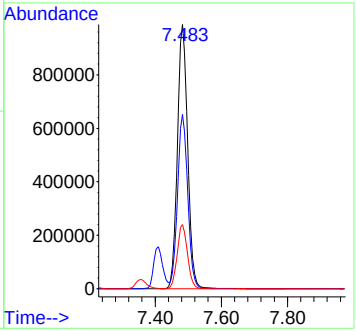


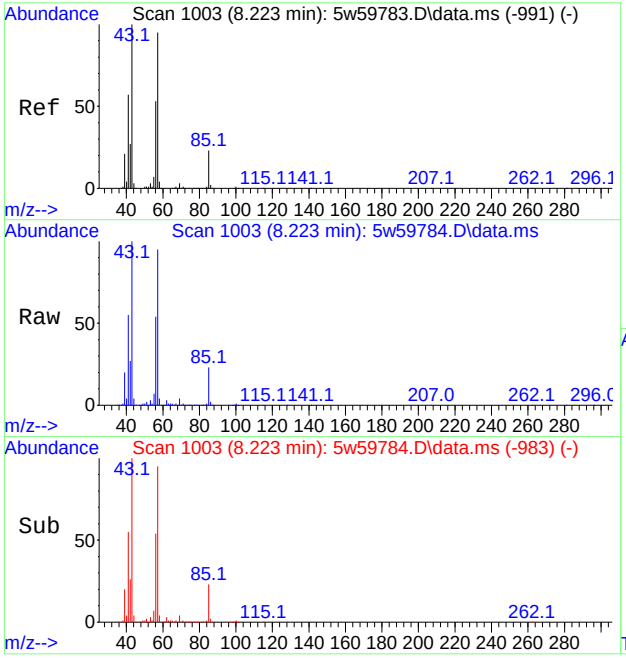


#46
CHLOROFORM
Concen: 18.57 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2134176

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	24.5	0.0	55.2

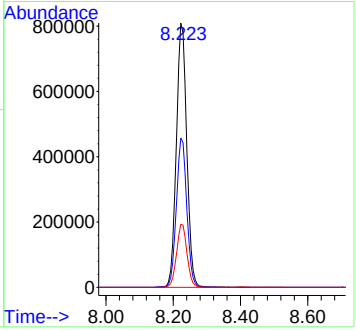


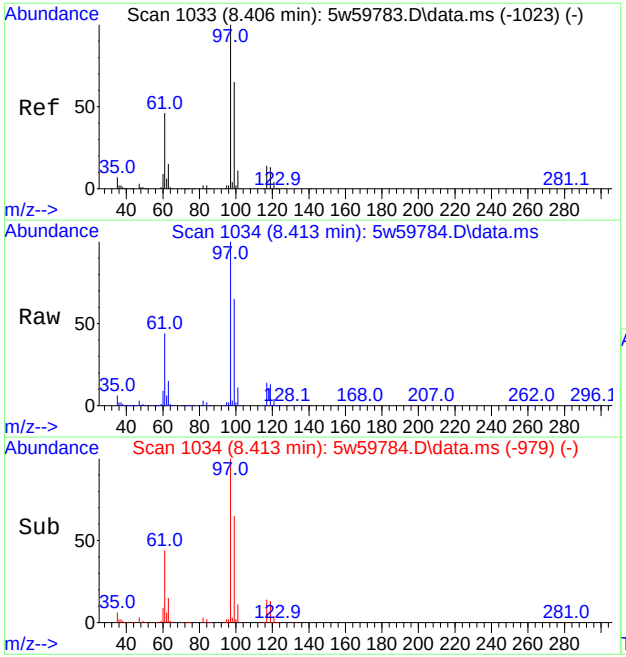


#47
2,4-DIMETHYLPENTANE
Concen: 19.75 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1747860

Ion	Ratio	Lower	Upper
57	100		
56	56.8	26.5	86.5
85	24.0	0.0	53.8

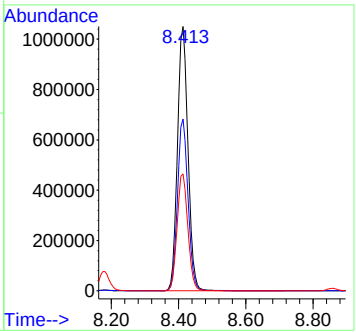


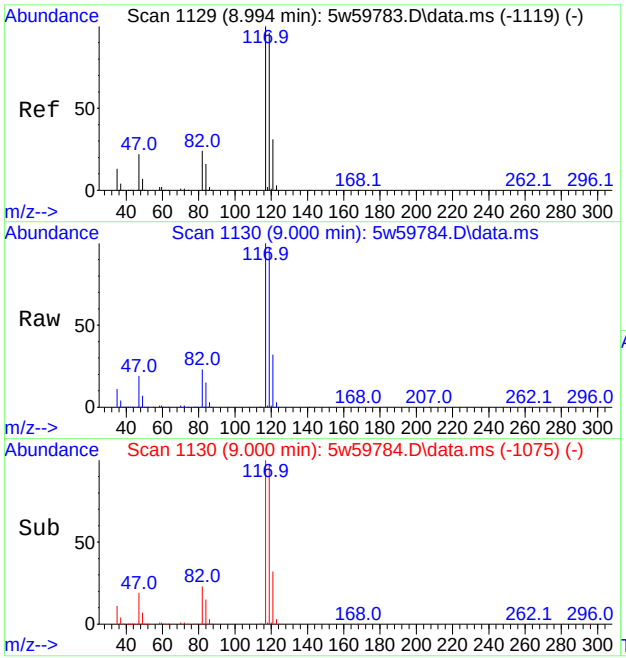


#48
1,1,1-TRICHLOROETHANE
Concen: 18.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 97 Resp: 2289683

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.8	94.8
61	45.3	15.8	75.8

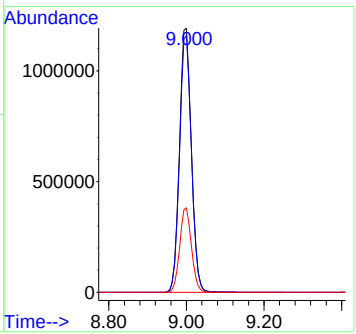


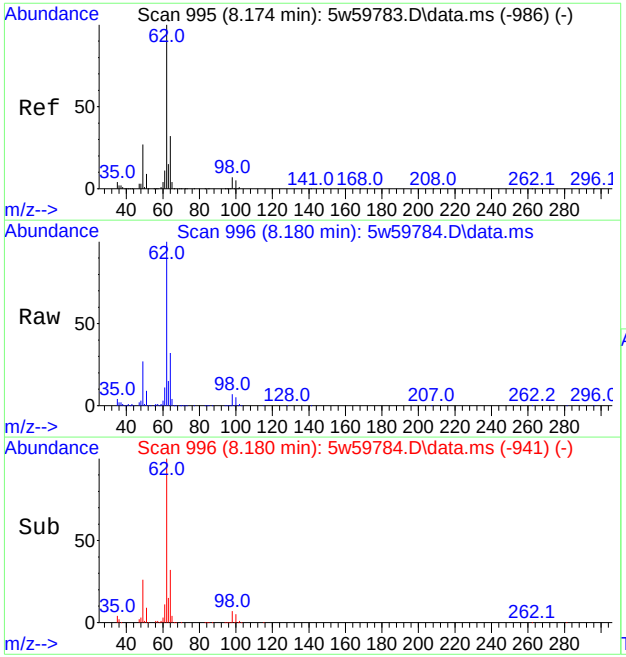


#49
CARBON TETRACHLORIDE
Concen: 18.43 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2555242

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.5	1.3	61.3

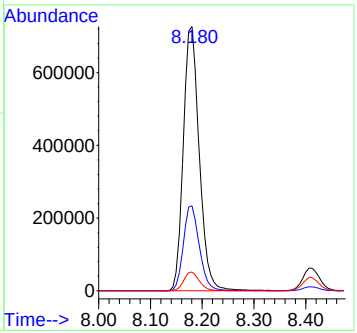


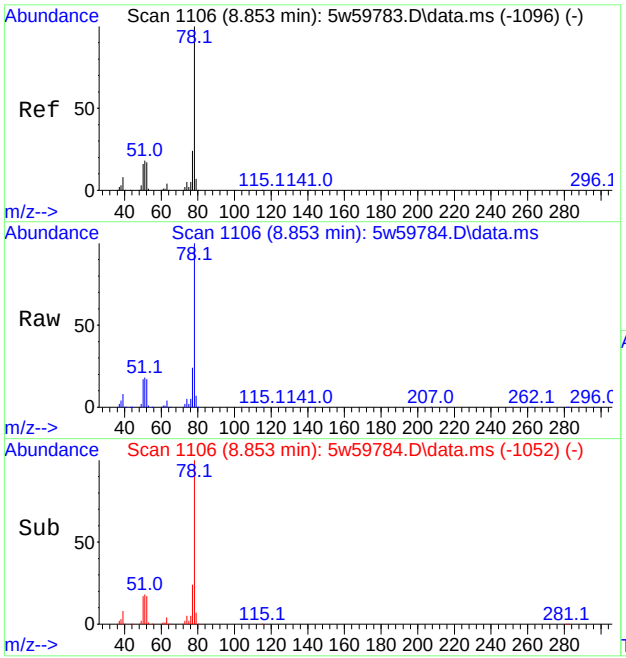


#50
1,2-DICHLOROETHANE
Concen: 19.15 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 1561332

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	7.0	0.0	36.9

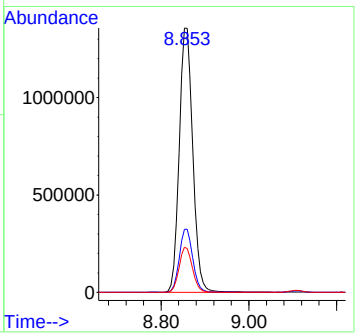


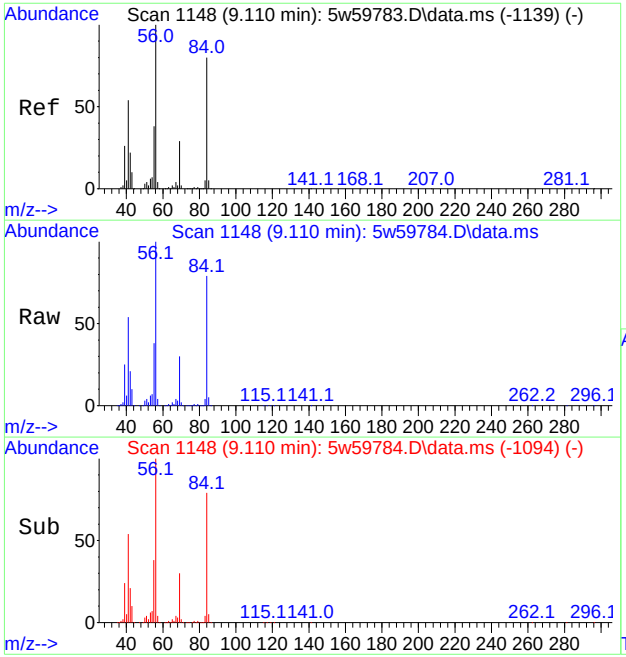


#52
BENZENE
Concen: 22.68 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 78 Resp: 2903342

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

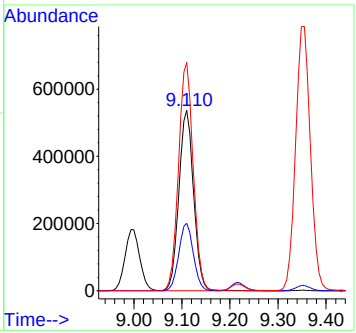


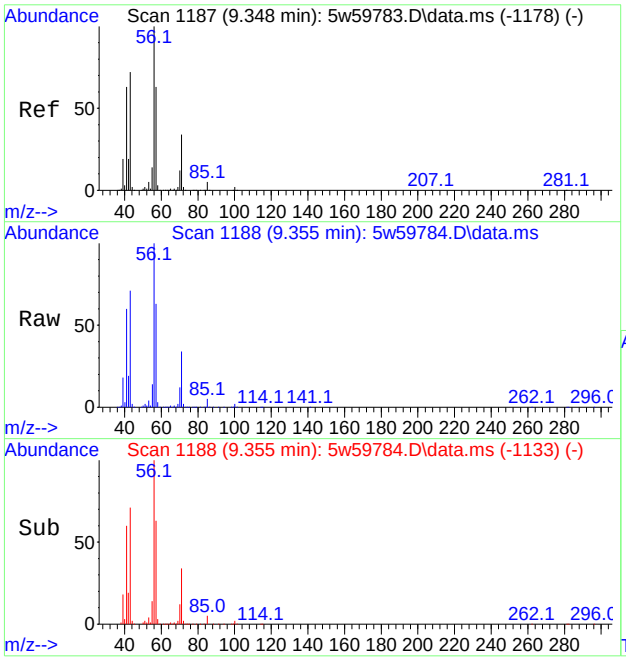


#53
CYCLOHEXANE
Concen: 22.41 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 1139585

Ion	Ratio	Lower	Upper
84	100		
69	37.2	6.9	66.9
56	126.2	98.2	158.2

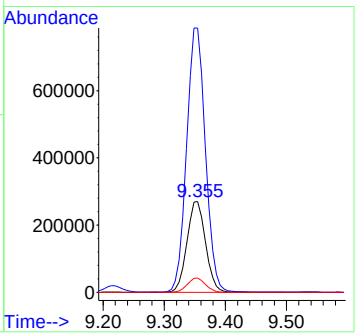


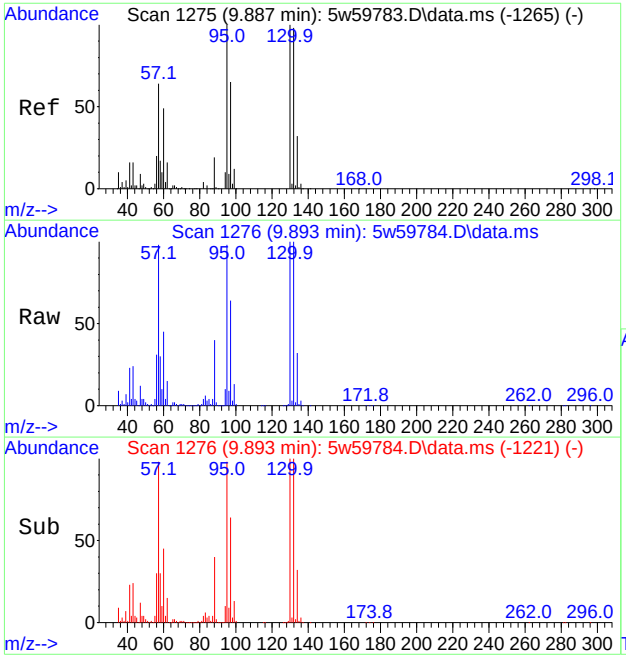


#54
2,3-DIMETHYLPENTANE
Concen: 22.39 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 71 Resp: 573637

Ion	Ratio	Lower	Upper
71	100		
56	294.3	264.6	324.6
85	15.5	0.0	45.3

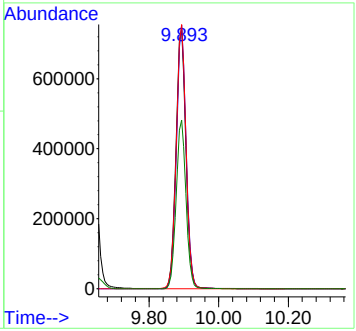


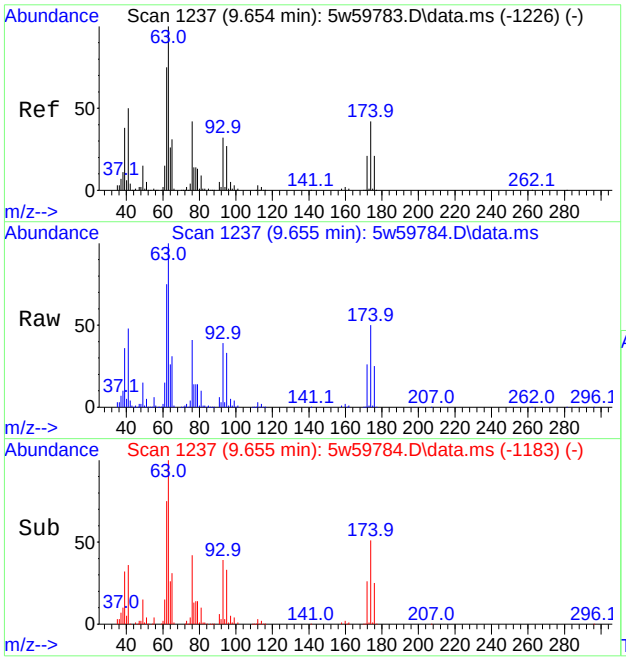


#55
TRICHLOROETHYLENE
Concen: 21.65 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 95 Resp: 1474907

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.3	70.6	130.6
97	64.8	34.6	94.6

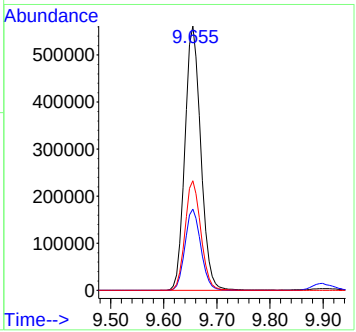


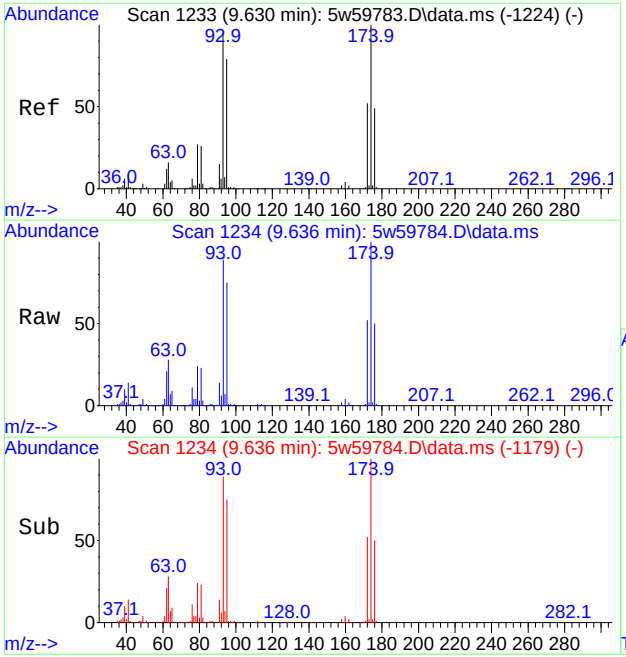


#56
1,2-DICHLOROPROPANE
Concen: 21.61 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1173566

Ion	Ratio	Lower	Upper
63	100		
65	30.7	0.5	60.5
76	41.3	11.5	71.5

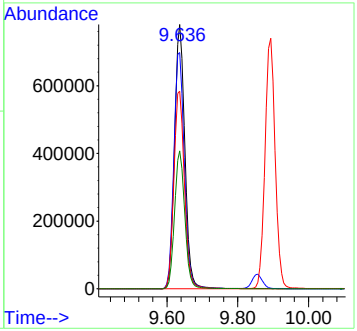


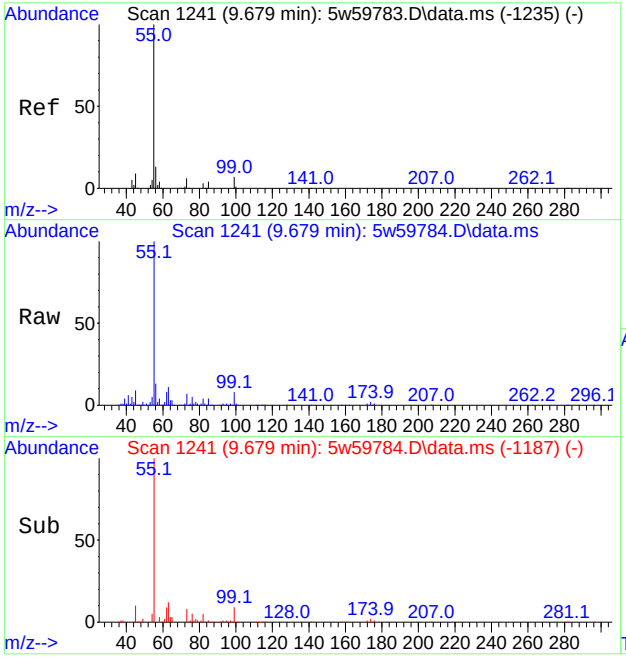


#57
DIBROMOMETHANE
Concen: 21.13 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:174 Resp: 1578012

Ion	Ratio	Lower	Upper
174	100		
93	91.6	65.0	120.6
95	76.8	54.5	101.1
172	52.1	36.3	67.5

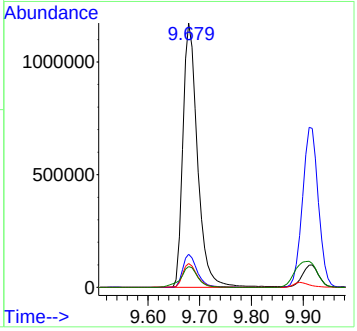


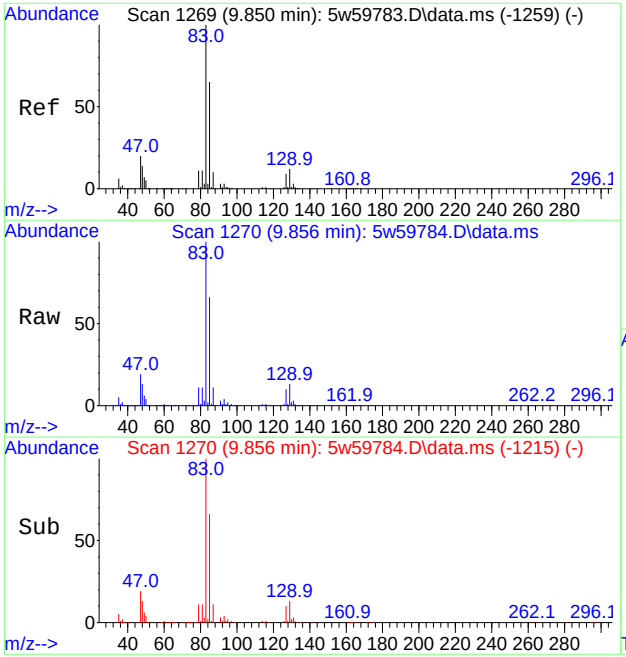


#58
ETHYL ACRYLATE
Concen: 23.37 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 2306359

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.0	6.6	12.2
99	9.3	6.4	12.0

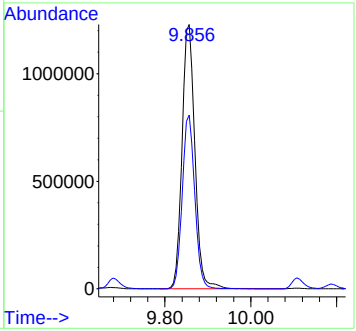


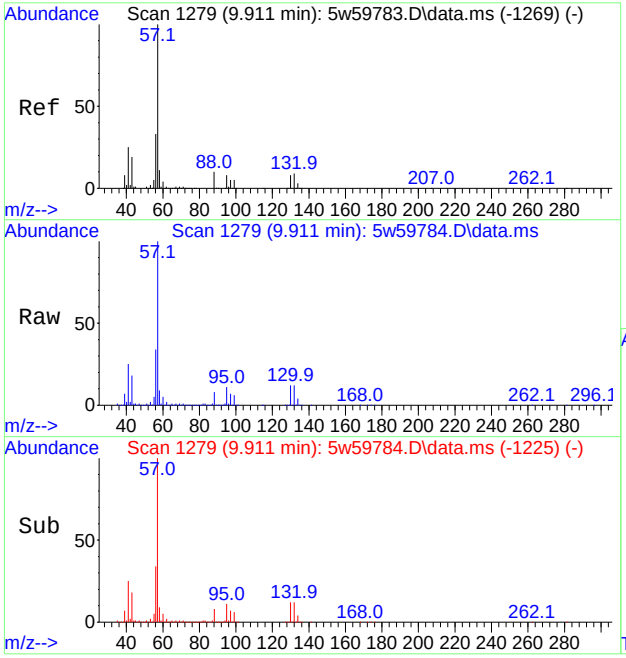


#59
BROMODICHLOROMETHANE
Concen: 21.01 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2548286

Ion	Ratio	Lower	Upper
83	100		
85	64.1	33.4	93.4

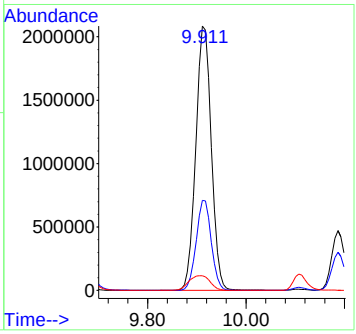


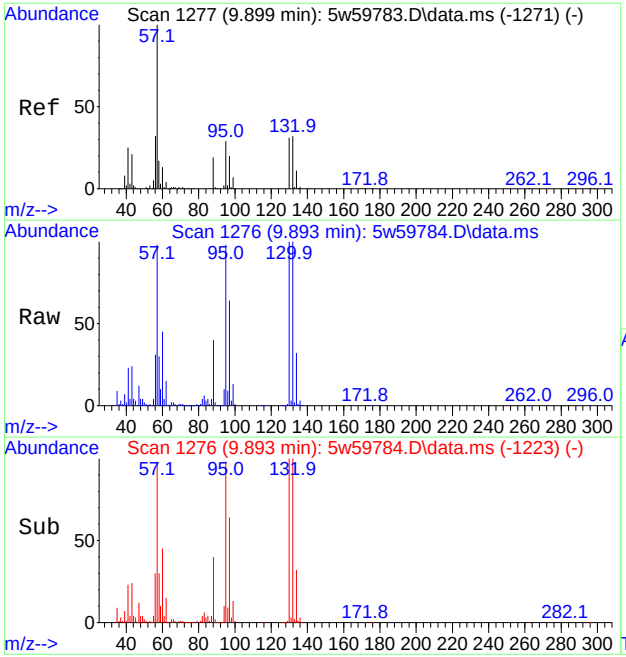


#60
2,2,4-TRIMETHYLPENTANE
Concen: 20.94 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 4564310

Ion	Ratio	Lower	Upper
57	100		
56	33.1	2.5	62.5
99	7.7	0.0	37.3

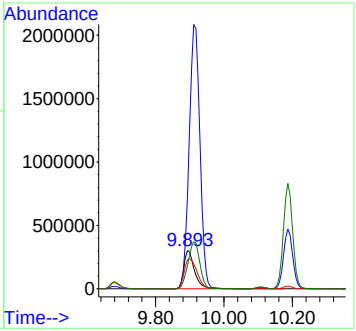


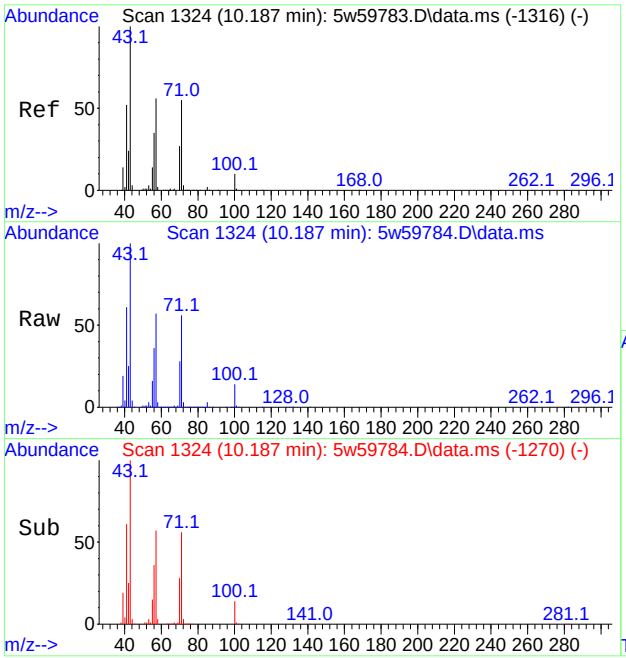


#61
1,4-DIOXANE
Concen: 24.77 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 88 Resp: 653321

Ion	Ratio	Lower	Upper
88	100		
57	243.5	494.2	554.2#
58	75.6	58.9	118.9
43	60.5	78.3	138.3#

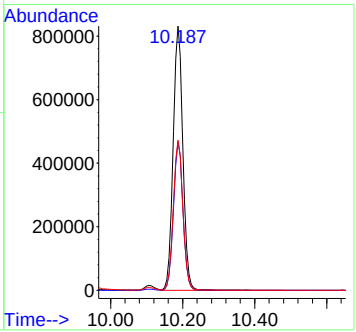


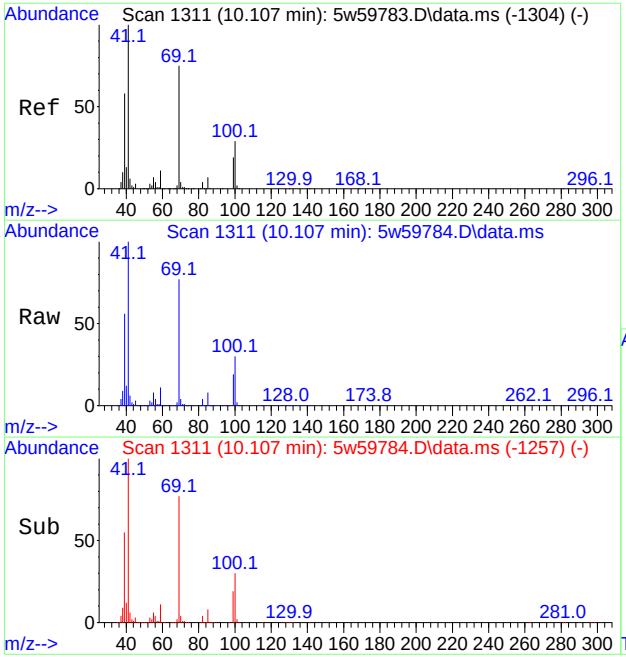


#62
HEPTANE
Concen: 19.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 1555190

Ion	Ratio	Lower	Upper
43	100		
71	55.3	24.5	84.5
57	56.8	26.2	86.2

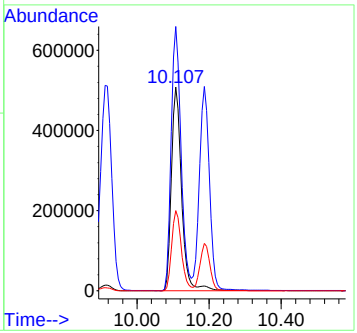


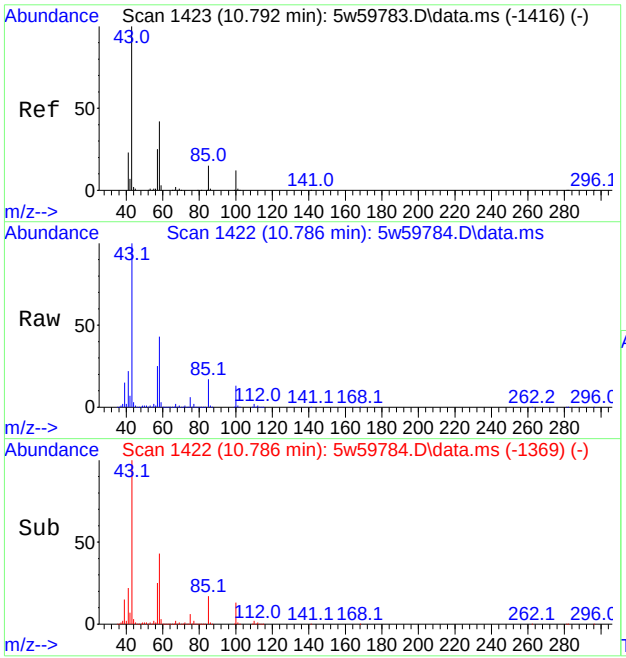


#63
METHYL METHACRYLATE
Concen: 25.22 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1000168

Ion	Ratio	Lower	Upper
69	100		
41	124.8	95.3	155.3
100	37.7	6.3	66.3

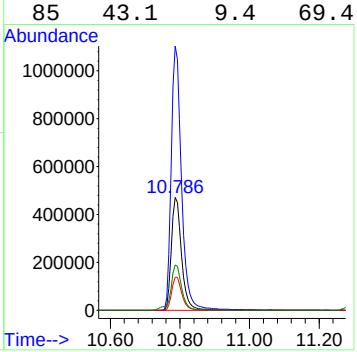


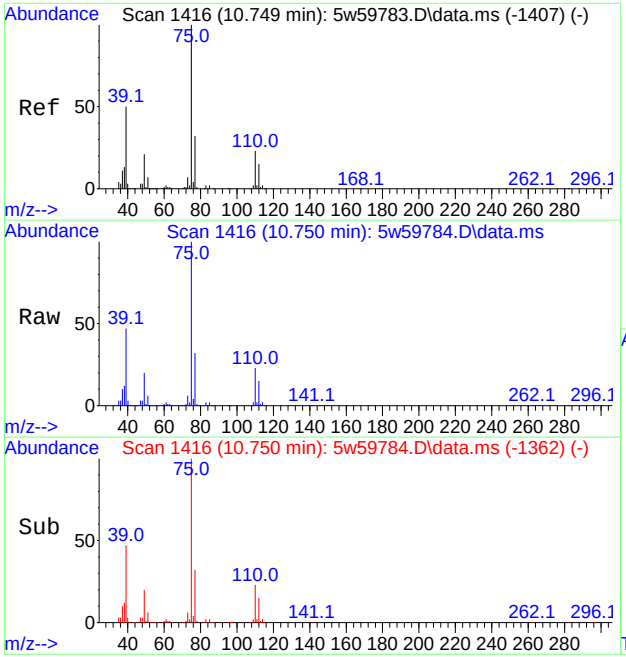


#64
METHYL ISOBUTYL KETONE
Concen: 23.79 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 969468

Ion	Ratio	Lower	Upper
58	100		
43	234.9	209.2	269.2
100	29.7	0.0	58.8
85	43.1	9.4	69.4

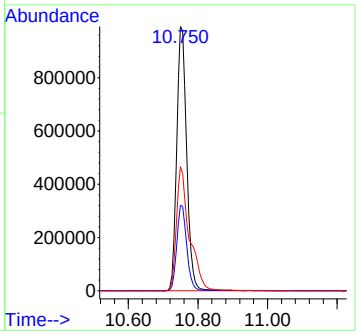


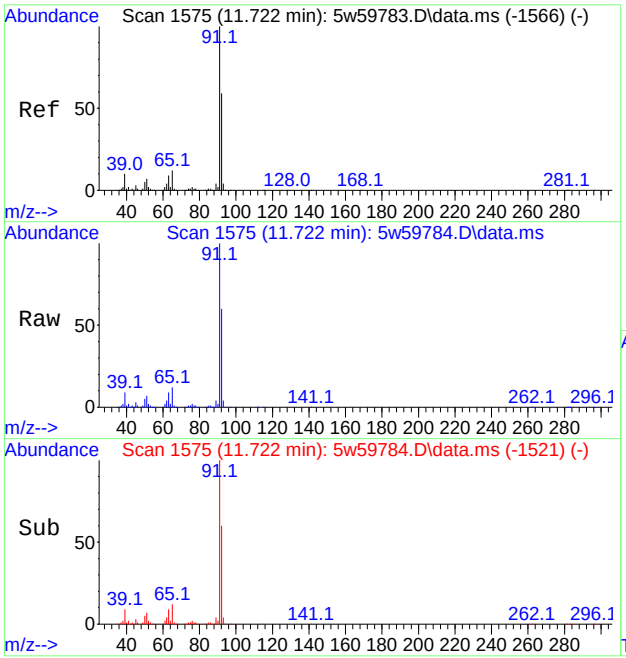


#65
cis-1,3-DICHLOROPROPENE
Concen: 23.56 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1985103

Ion	Ratio	Lower	Upper
75	100		
77	32.3	2.2	62.2
39	61.2	34.3	94.3

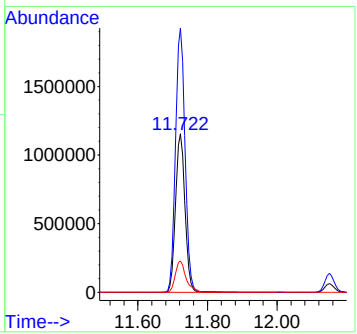


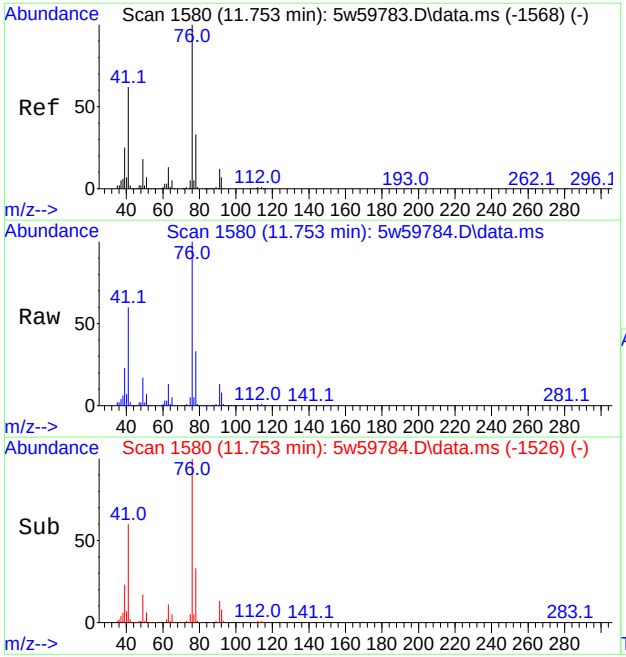


#66
TOLUENE
Concen: 23.93 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 92 Resp: 2187710

Ion	Ratio	Lower	Upper
92	100		
91	168.7	140.1	200.1
65	22.8	0.0	53.1

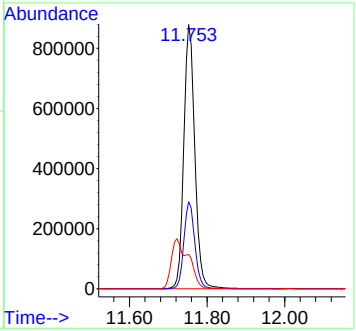


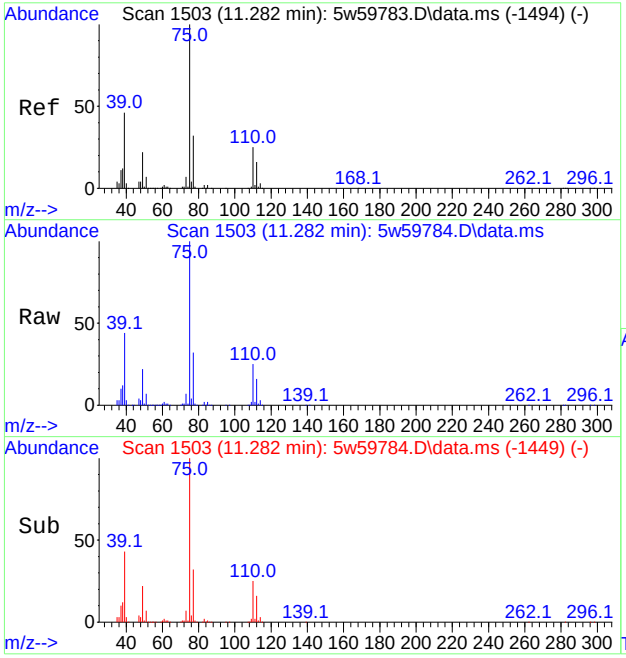


#67
1,3-DICHLOROPROPANE
Concen: 22.65 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 1738240

Ion	Ratio	Lower	Upper
76	100		
78	33.0	23.2	43.0
63	10.3	7.1	13.1

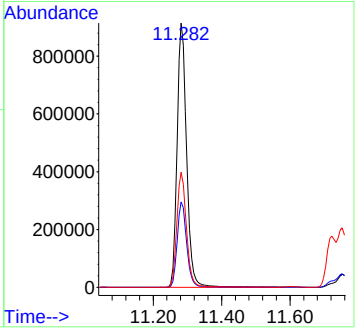


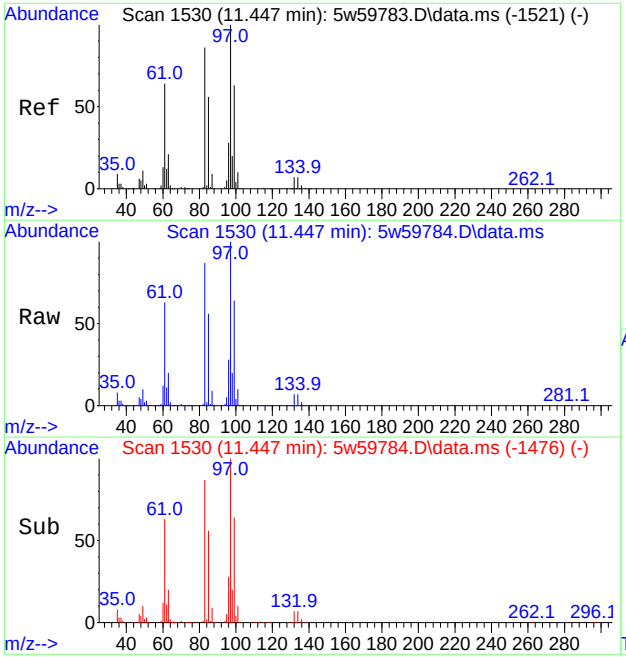


#68
trans-1,3-DICHLOROPROPENE
Concen: 22.91 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1772531

Ion	Ratio	Lower	Upper
75	100		
77	32.4	1.6	61.6
39	44.2	16.1	76.1

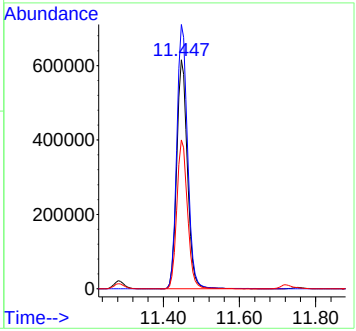


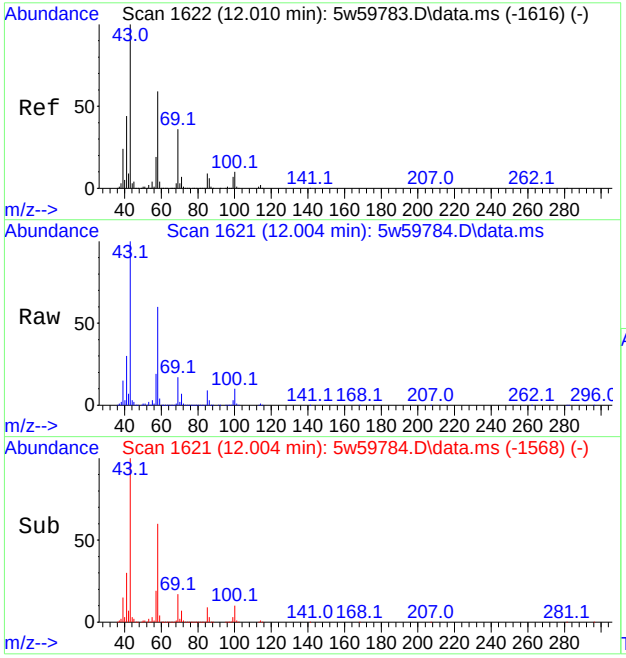


#69
1,1,2-TRICHLOROETHANE
Concen: 23.91 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 1196566

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.2	35.3	95.3

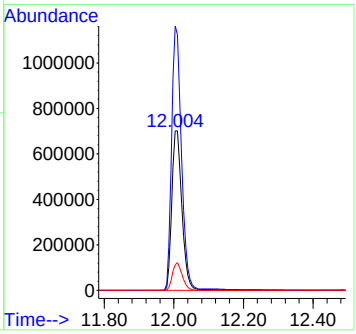


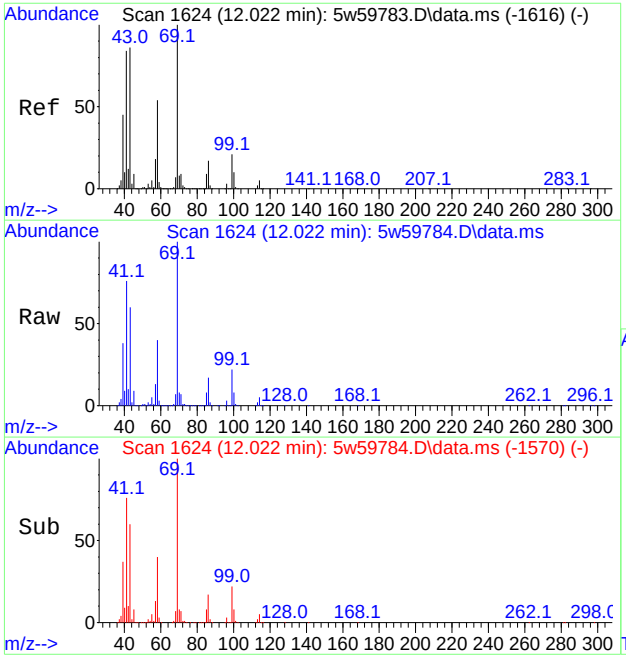


#71
2-HEXANONE
Concen: 25.09 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 1425280

Ion	Ratio	Lower	Upper
58	100		
43	161.8	137.2	197.2
100	17.1	0.0	46.9

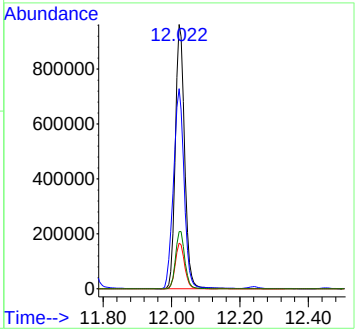


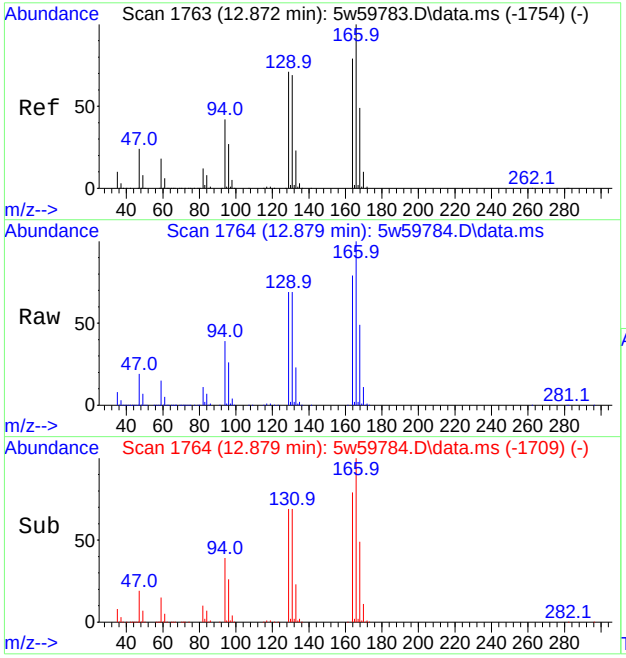


#72
ETHYL METHACRYLATE
Concen: 25.28 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1817206

Ion	Ratio	Lower	Upper
69	100		
41	87.2	64.0	119.0
86	17.4	12.0	22.4
99	21.8	15.0	27.8

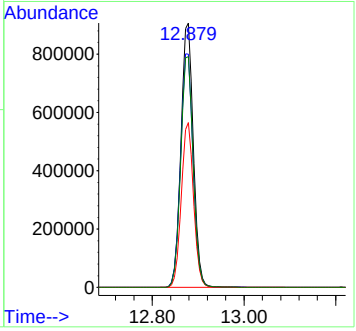


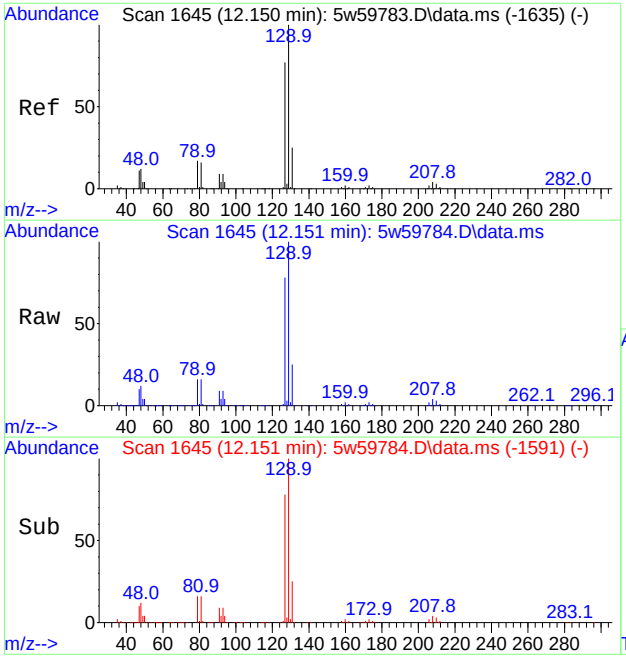


#73
TETRACHLOROETHYLENE
Concen: 20.29 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:164 Resp: 1702539

Ion	Ratio	Lower	Upper
164	100		
129	89.5	59.7	119.7
168	62.0	32.2	92.2
131	88.0	57.8	117.8

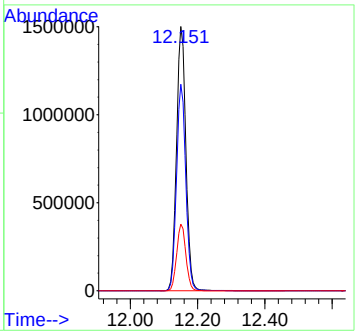


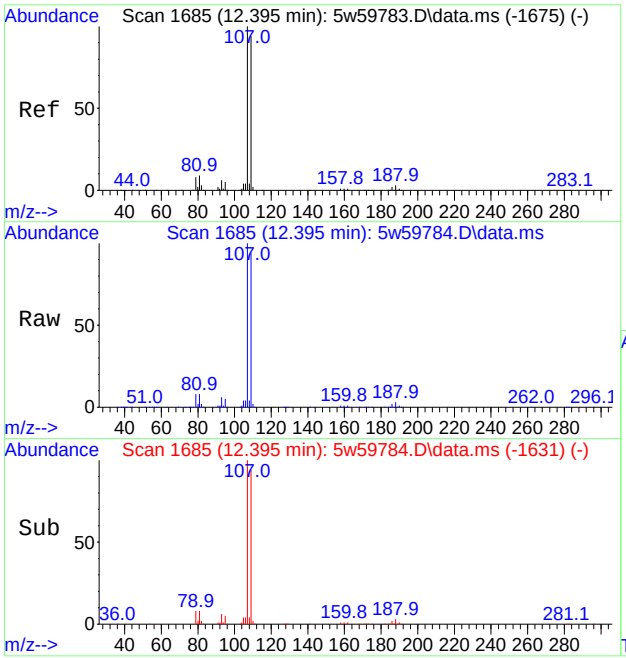


#74
DIBROMOCHLOROMETHANE
Concen: 20.55 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:129 Resp: 2900352

Ion	Ratio	Lower	Upper
129	100		
127	77.8	47.1	107.1
131	25.0	0.0	54.5

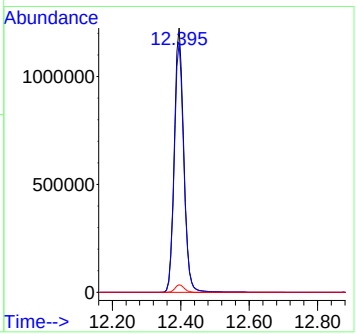


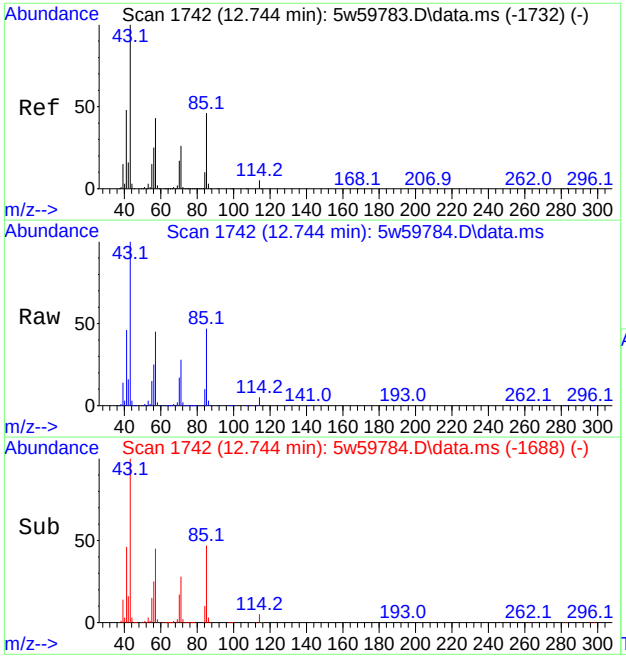


#75
1,2-DIBROMOETHANE
Concen: 22.95 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:107 Resp: 2366337

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

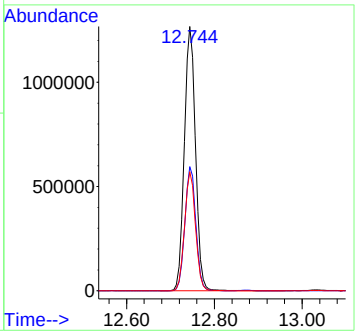


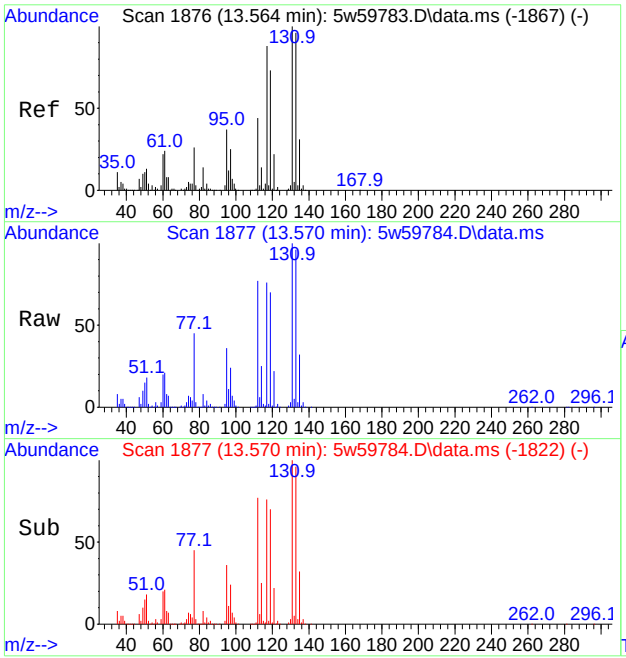


#76
OCTANE
Concen: 18.84 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2238080

Ion	Ratio	Lower	Upper
43	100		
85	46.2	14.6	74.6
57	44.3	13.7	73.7

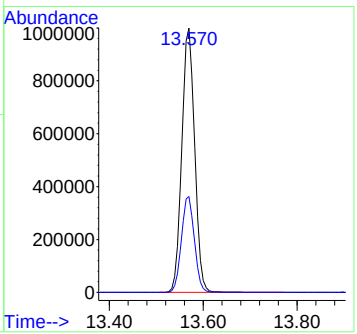


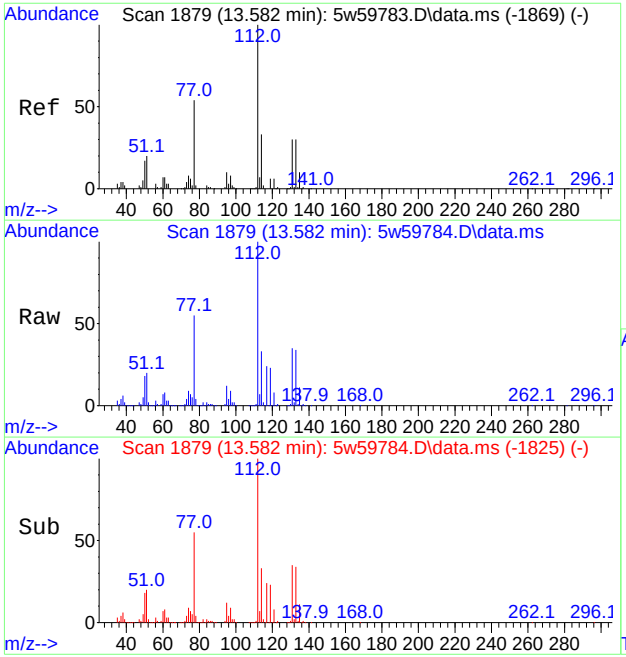


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.52 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:131 Resp: 1899714

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

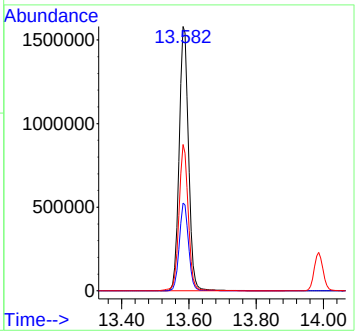


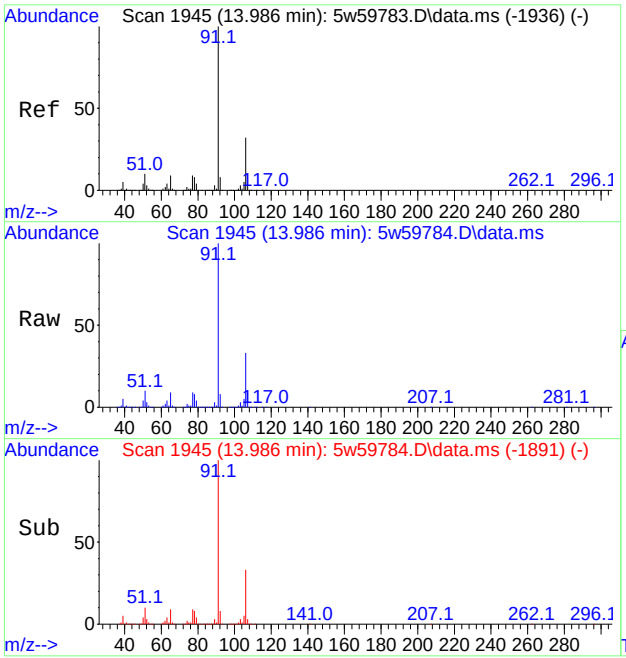


#78
CHLOROBENZENE
Concen: 20.02 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:112 Resp: 3046547

Ion	Ratio	Lower	Upper
112	100		
114	33.0	2.6	62.6
77	55.1	25.4	85.4

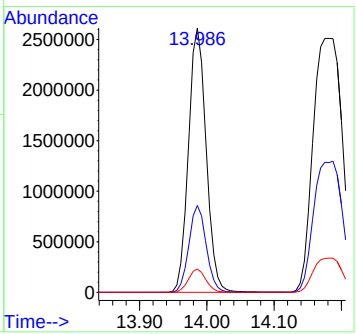


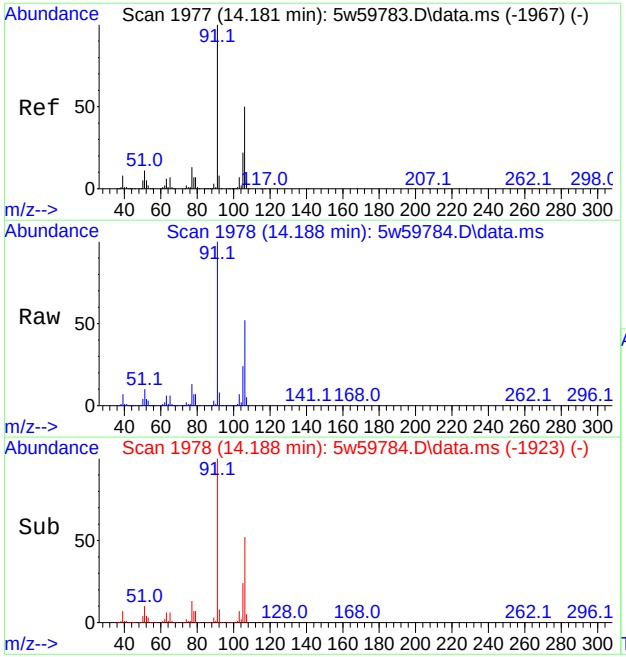


#79
ETHYLBENZENE
Concen: 22.00 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4800136

Ion	Ratio	Lower	Upper
91	100		
106	32.3	1.3	61.3
77	8.7	0.0	38.6

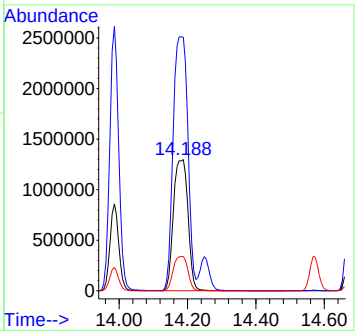


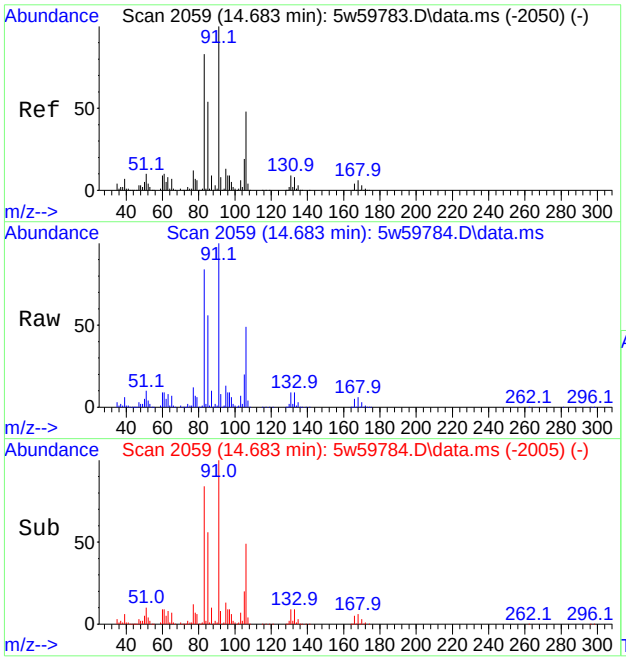


#80
m,p-XYLENE
Concen: 46.33 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 3838940

Ion	Ratio	Lower	Upper
106	100		
91	193.3	171.0	231.0
77	26.1	0.0	56.7

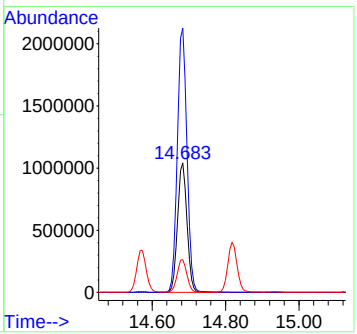


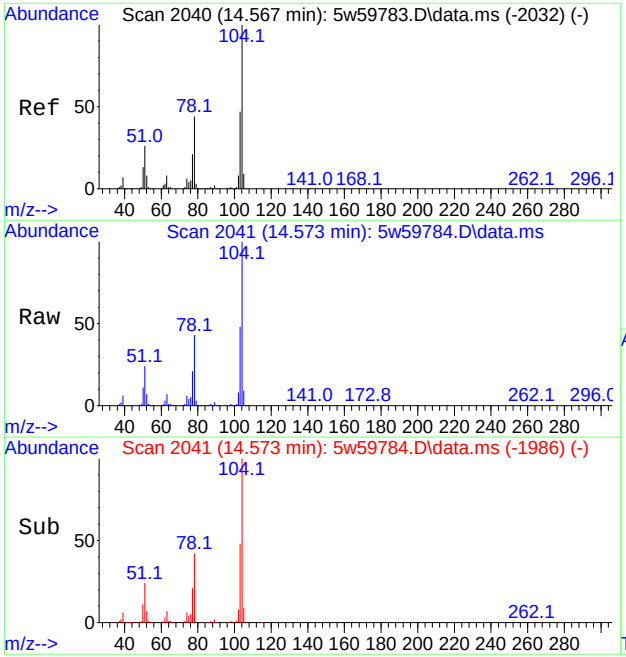


#81
o-XYLENE
Concen: 24.57 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 1866956

Ion	Ratio	Lower	Upper
106	100		
91	207.5	181.6	241.6
77	26.0	0.0	56.6

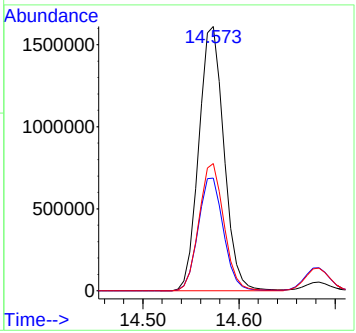


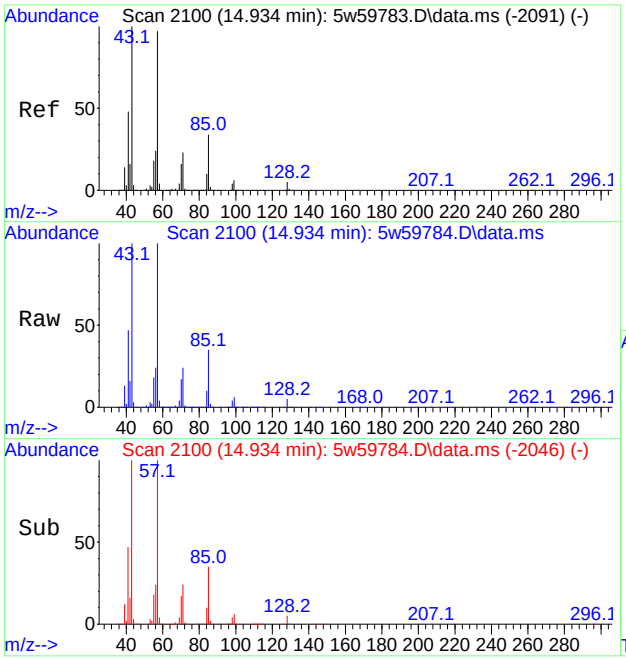


#82
STYRENE
Concen: 25.25 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:104 Resp: 2939414

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.7	17.2	77.2

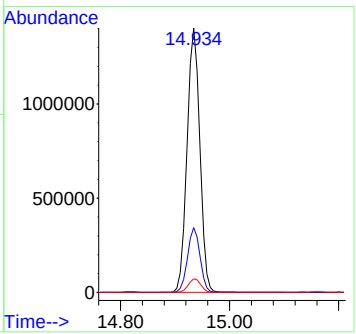


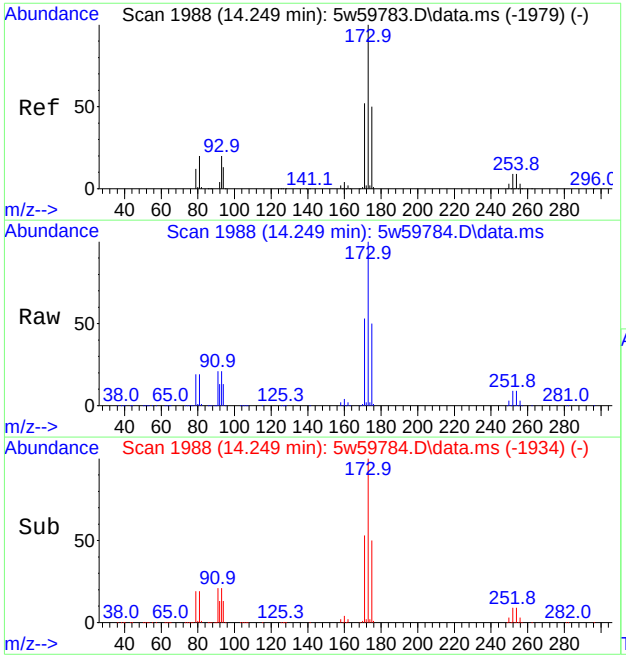


#83
NONANE
Concen: 19.27 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2271246

Ion	Ratio	Lower	Upper
43	100		
71	23.9	0.0	52.7
128	5.0	0.0	34.7

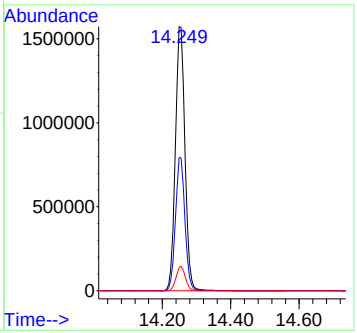


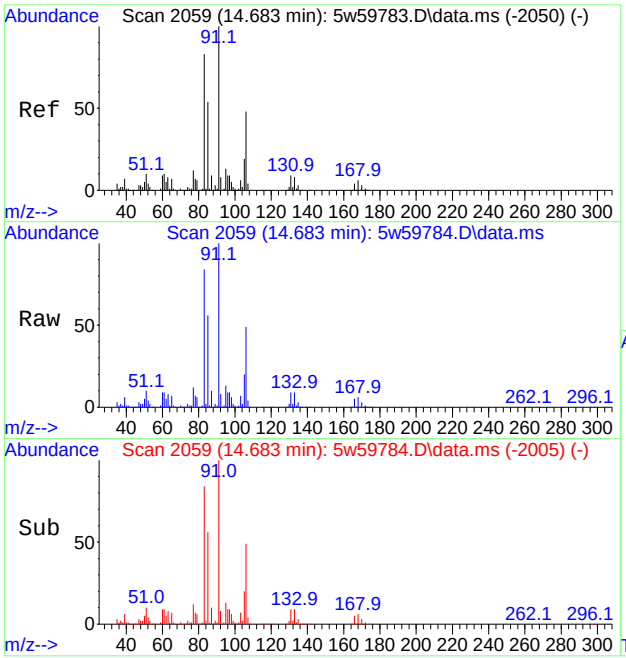


#84
BROMOFORM
Concen: 21.19 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:173 Resp: 3083788

Ion	Ratio	Lower	Upper
173	100		
175	49.9	19.6	79.6
254	9.1	0.0	39.0

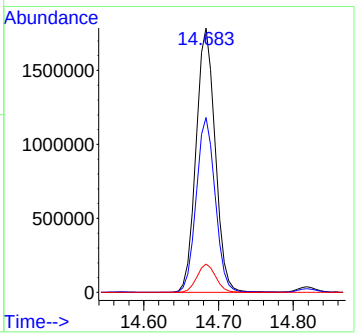


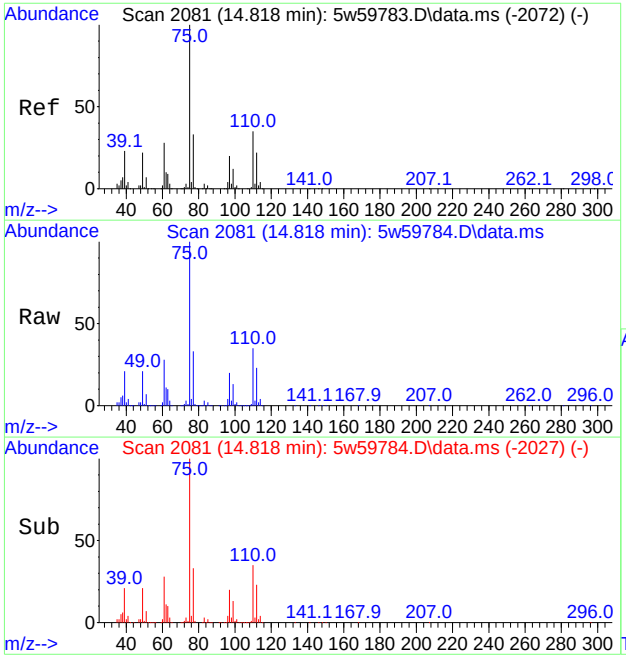


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 23.67 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 3171683

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.2	95.2
131	10.5	0.0	40.3

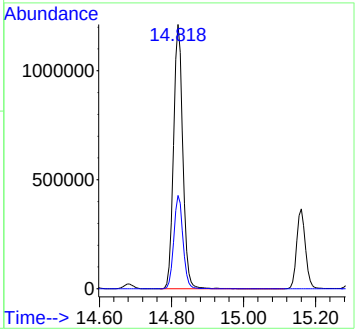


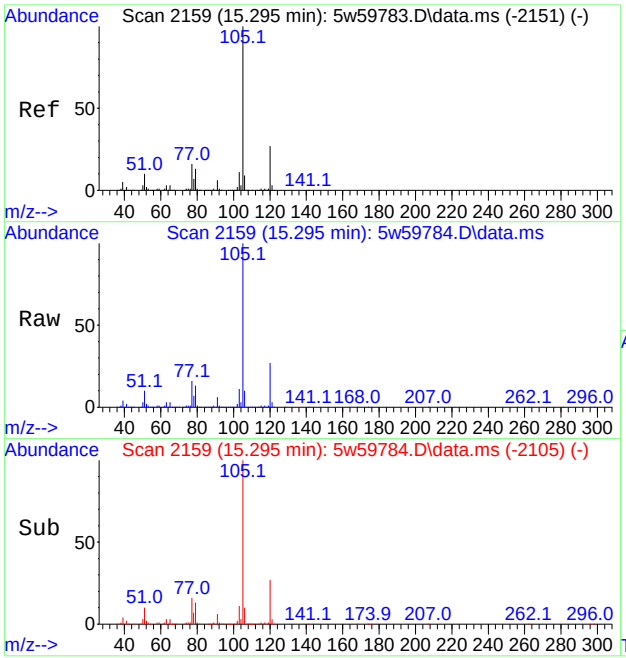


#87
1,2,3-TRICHLOROPROPANE
Concen: 19.01 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 2166410

Ion	Ratio	Lower	Upper
75	100		
110	35.1	4.4	64.4

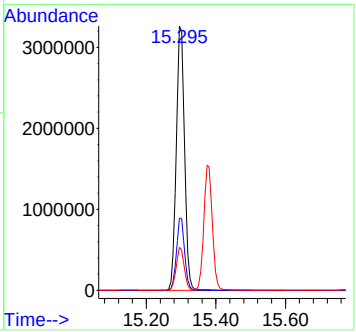


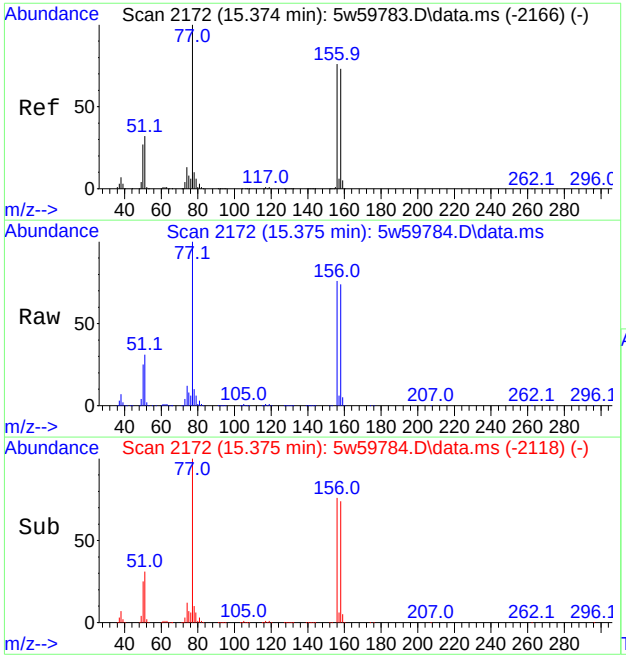


#88
ISOPROPYLBENZENE
Concen: 21.38 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5426205

Ion	Ratio	Lower	Upper
105	100		
120	26.8	0.0	56.0
77	15.7	0.0	45.6

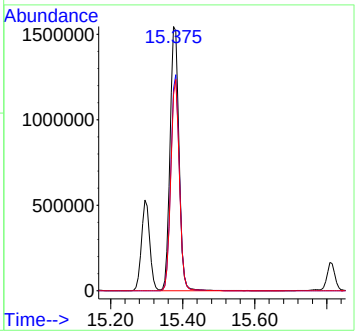


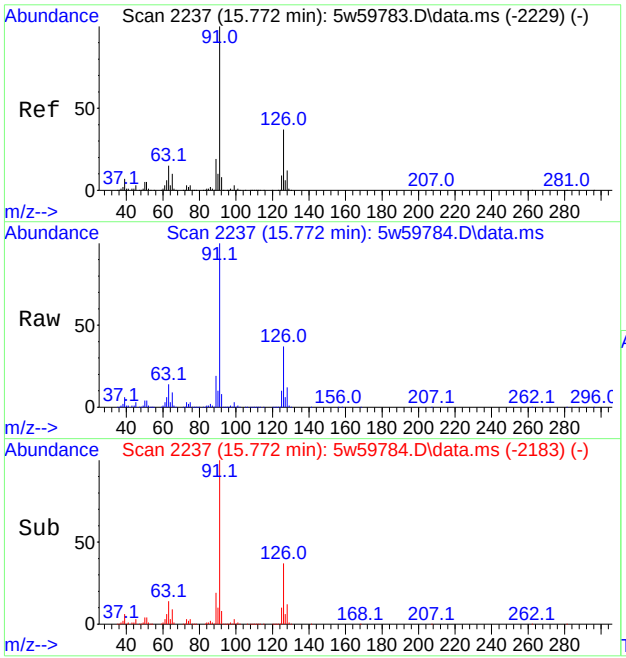


#89
BROMOBENZENE
Concen: 19.84 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 77 Resp: 2635582

Ion	Ratio	Lower	Upper
77	100		
156	79.3	54.9	101.9
158	77.4	53.5	99.3

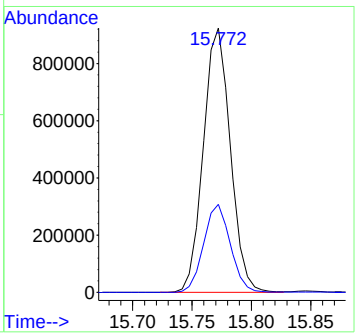


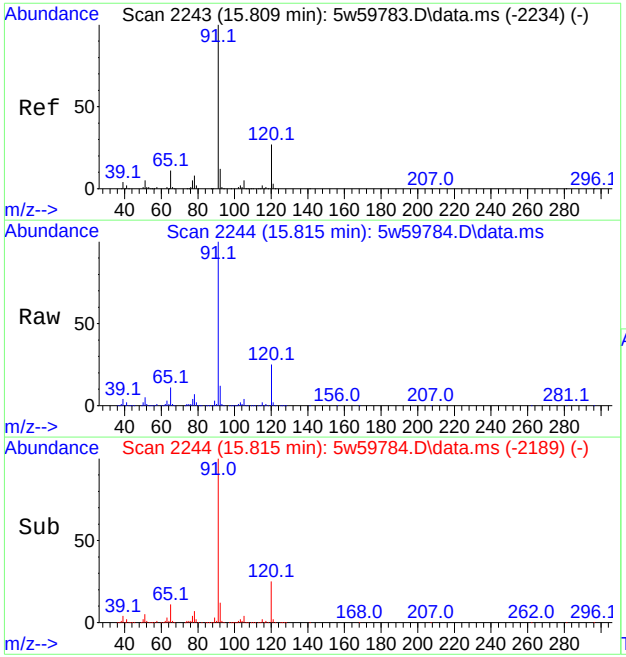


#90
2-CHLOROTOLUENE
Concen: 21.55 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:126 Resp: 1458347

Ion	Ratio	Lower	Upper
126	100		
128	33.0	2.7	62.7

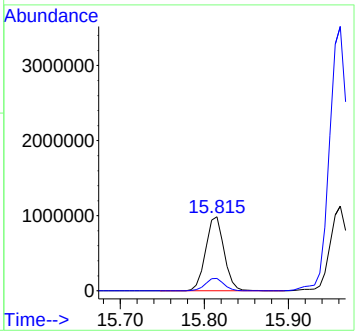


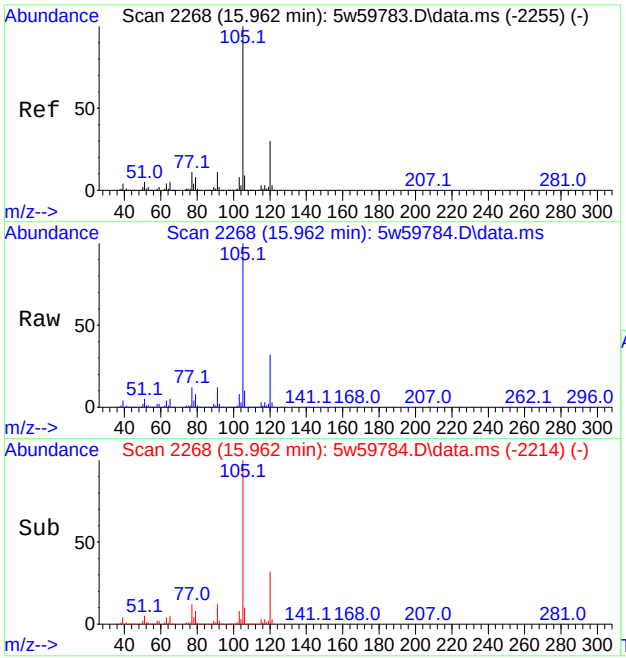


#91
n-PROPYLBENZENE
Concen: 22.21 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:120 Resp: 1498983

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

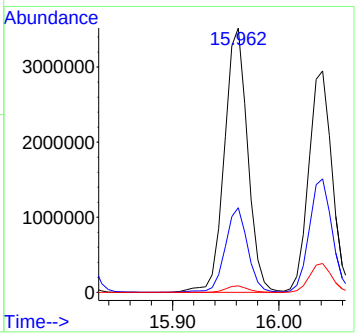


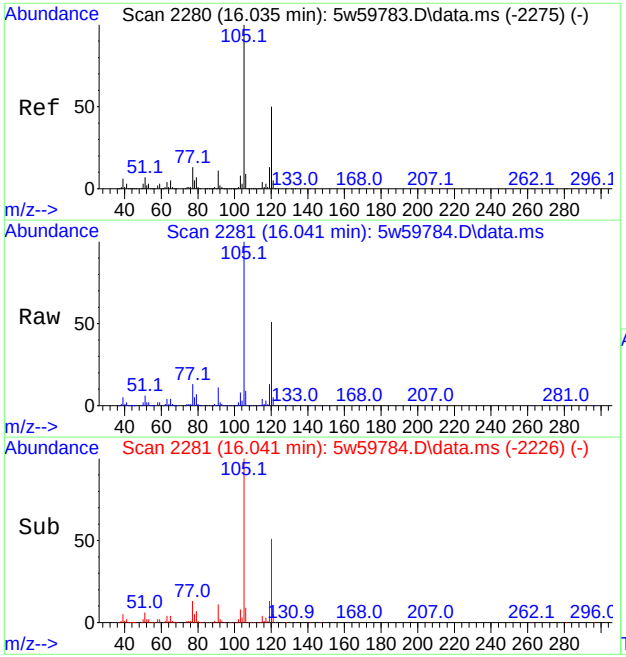


#92
4-ETHYLTOLUENE
Concen: 23.50 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5359201

Ion	Ratio	Lower	Upper
105	100		
120	30.9	0.0	59.9
119	2.4	0.0	32.3

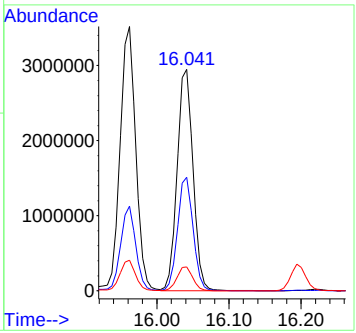


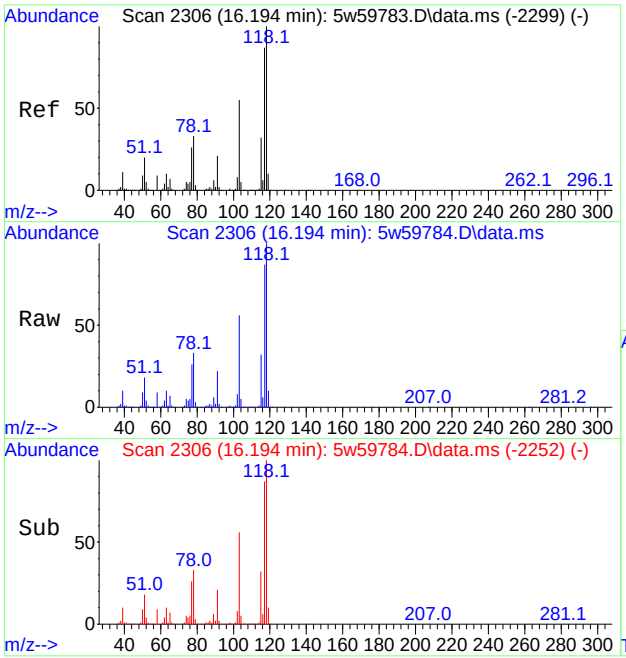


#93
1,3,5-TRIMETHYLBENZENE
Concen: 21.37 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4517483

Ion	Ratio	Lower	Upper
105	100		
120	50.2	19.4	79.4
91	10.8	0.0	40.8

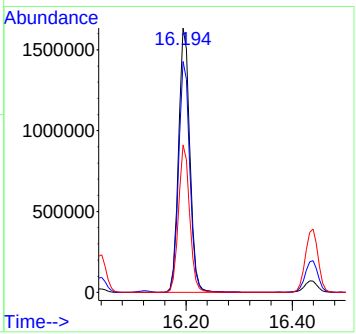


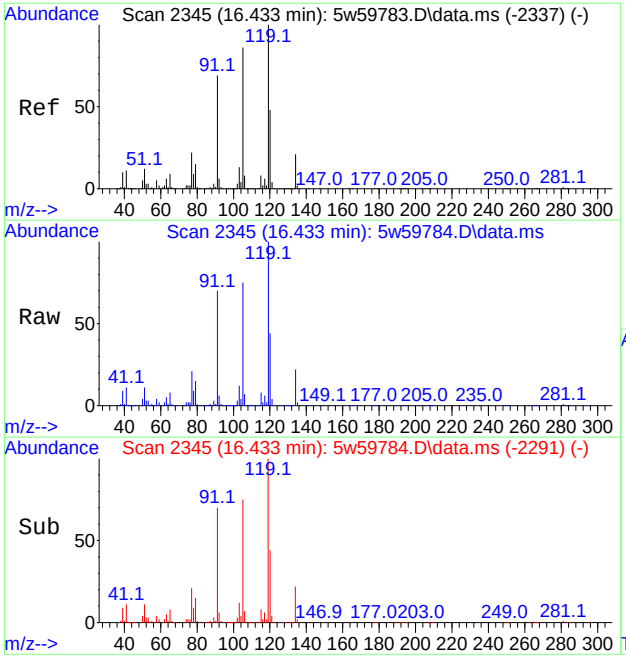


#94
ALPHA-METHYLSTYRENE
Concen: 23.73 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:118 Resp: 2401651

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.1	38.6	71.8

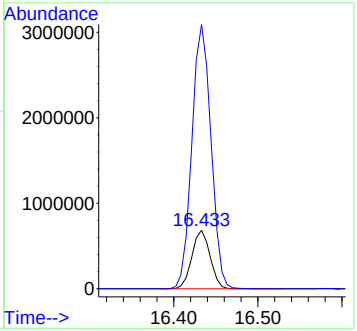


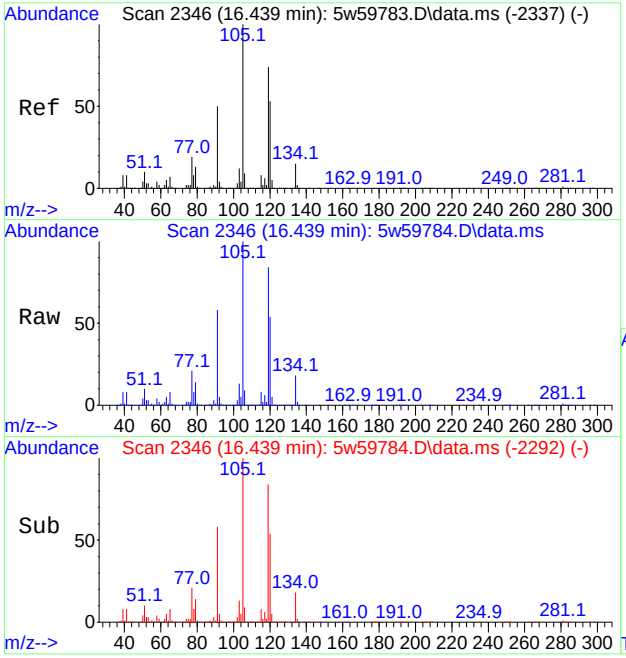


#95
tert-BUTYLBENZENE
Concen: 23.44 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1027177

Ion	Ratio	Lower	Upper
134	100		
119	476.8	459.3	519.3

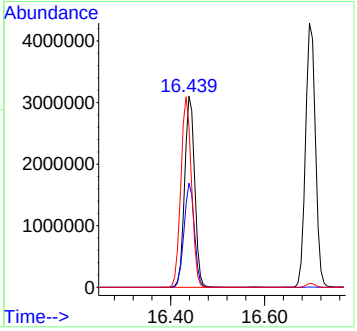


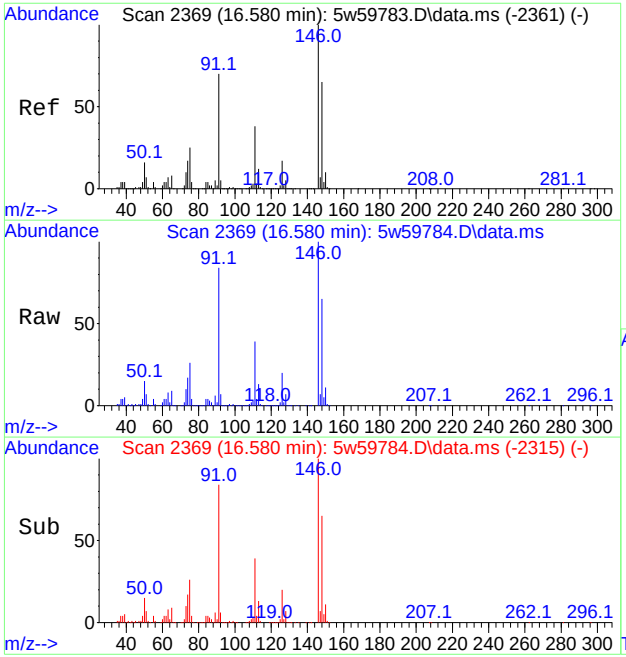


#96
1,2,4-TRIMETHYLBENZENE
Concen: 22.68 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4619537

Ion	Ratio	Lower	Upper
105	100		
120	56.6	25.7	85.7
119	106.0	75.7	135.7

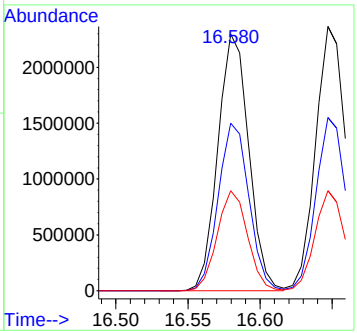


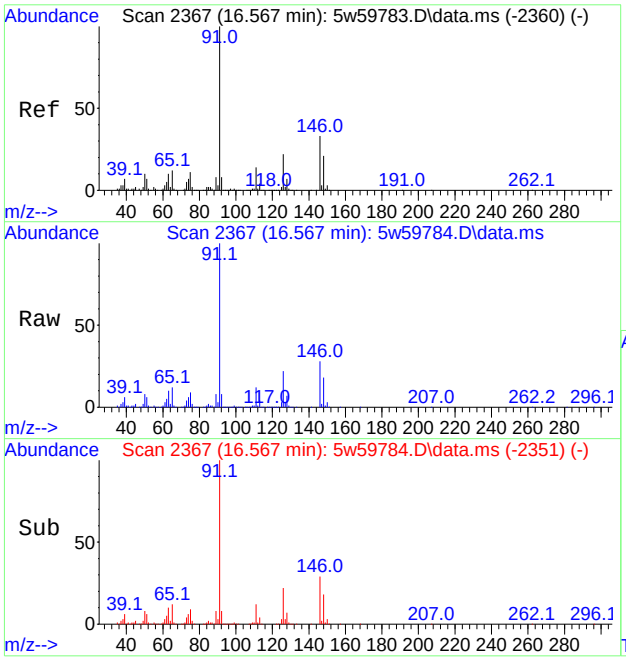


#97
m-DICHLOROBENZENE
Concen: 21.01 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3436542

Ion	Ratio	Lower	Upper
146	100		
148	65.0	34.8	94.8
111	38.3	8.2	68.2

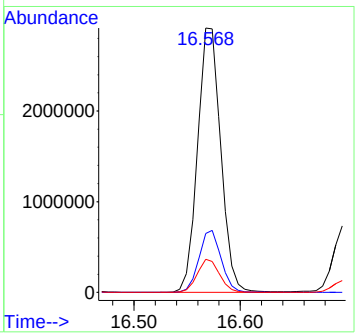


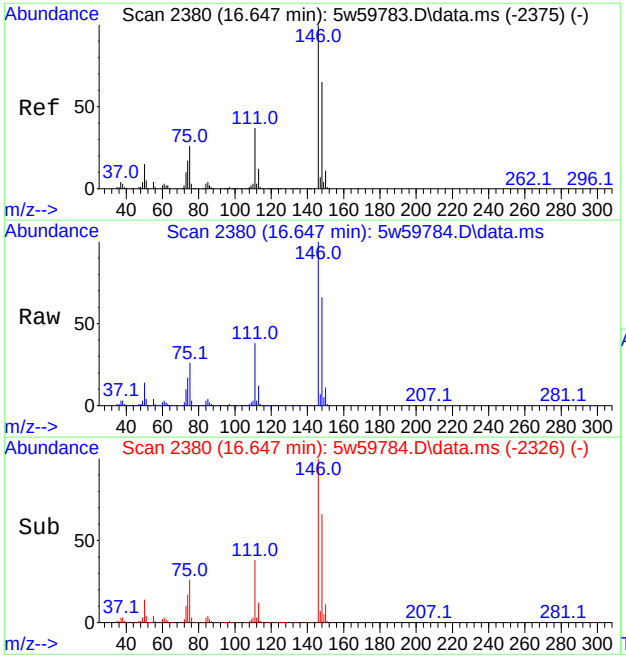


#98
BENZYL CHLORIDE
Concen: 23.83 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4433280

Ion	Ratio	Lower	Upper
91	100		
126	22.5	0.0	51.7
65	12.0	0.0	42.2

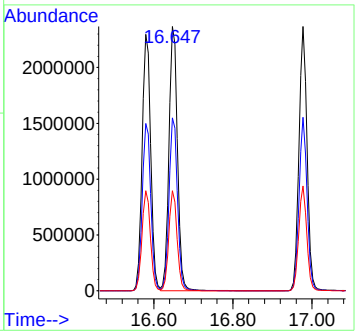


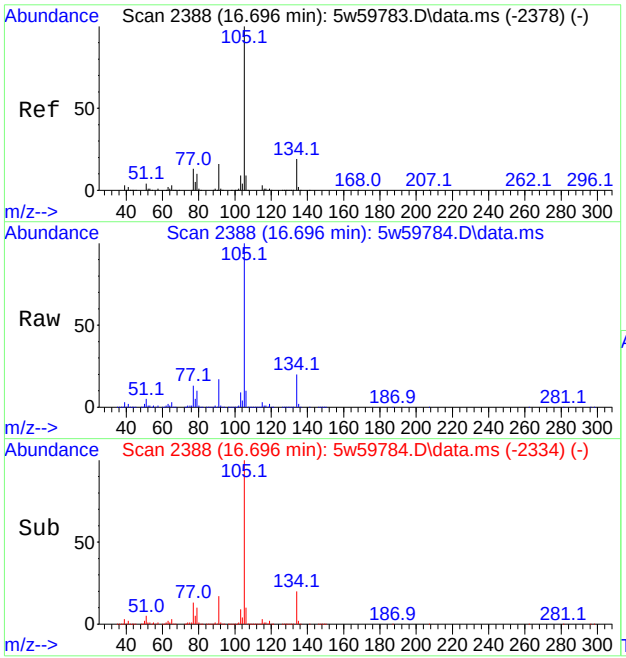


#99
p-DICHLOROBENZENE
Concen: 20.84 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3529112

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	37.0	6.7	66.7

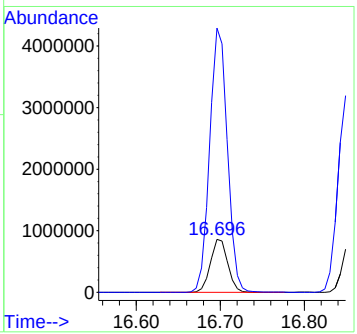


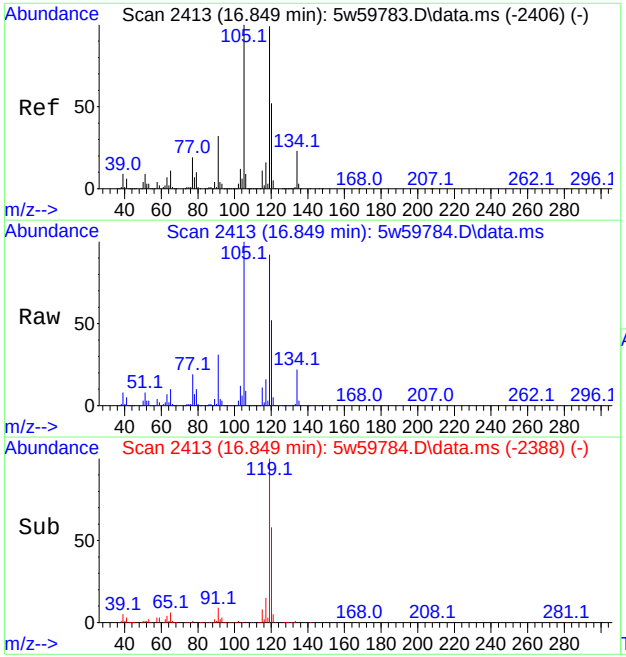


#100
sec-BUTYLBENZENE
Concen: 22.03 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1236753

Ion	Ratio	Lower	Upper
134	100		
105	509.0	502.5	562.5

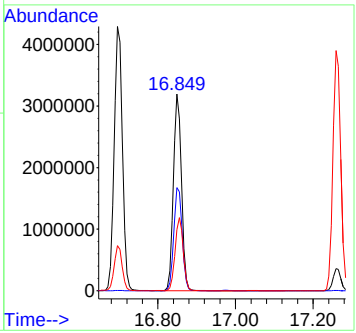


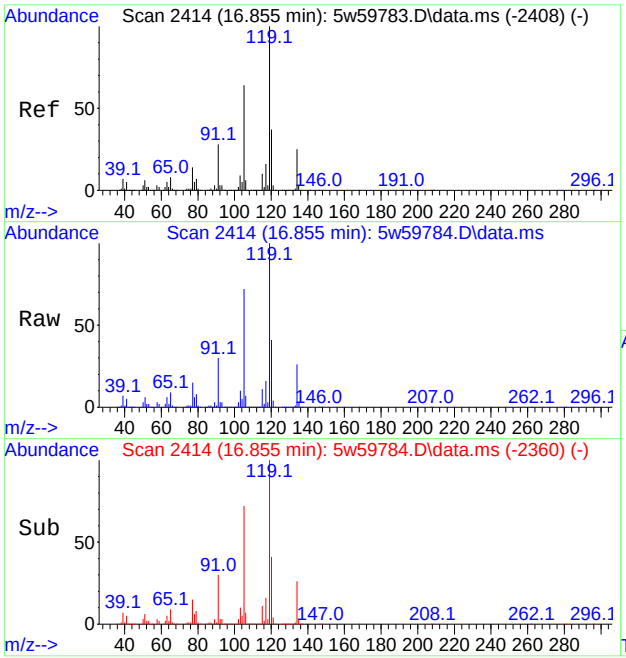


#101
1,2,3-TRIMETHYLBENZENE
Concen: 21.34 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4652009

Ion	Ratio	Lower	Upper
105	100		
120	54.4	23.5	83.5
91	37.5	7.4	67.4

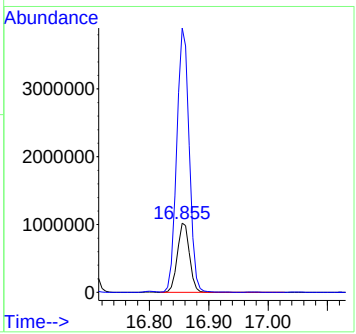


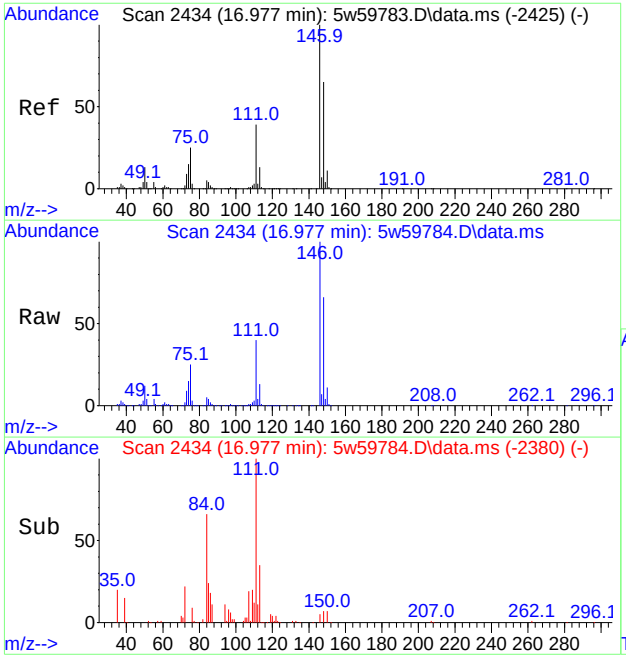


#102
p-ISOPROPYLTOLUENE
Concen: 22.76 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1464768

Ion	Ratio	Lower	Upper
134	100		
119	393.7	377.7	437.7

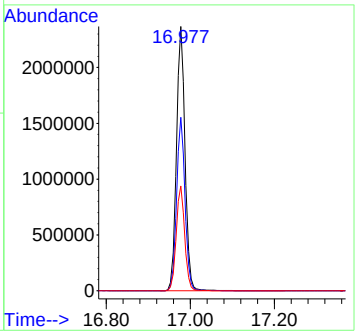


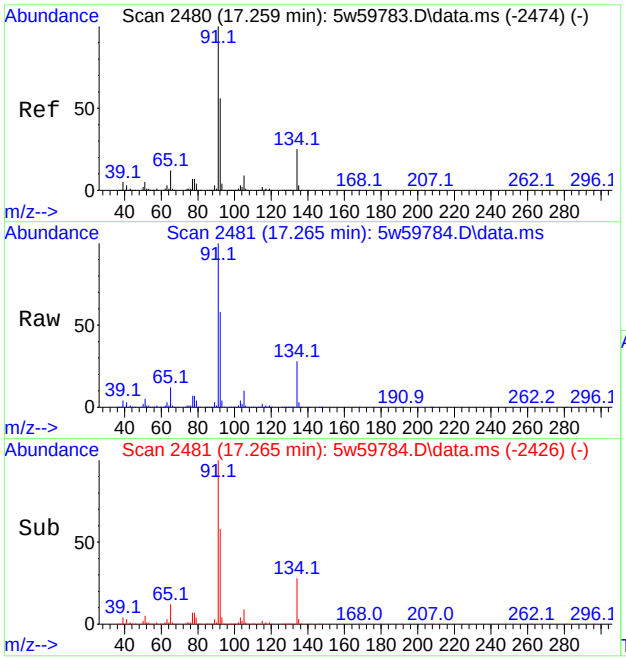


#103
o-DICHLOROBENZENE
Concen: 20.30 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3353483

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.3	94.3
111	39.4	9.2	69.2

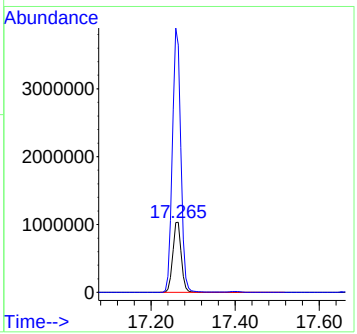


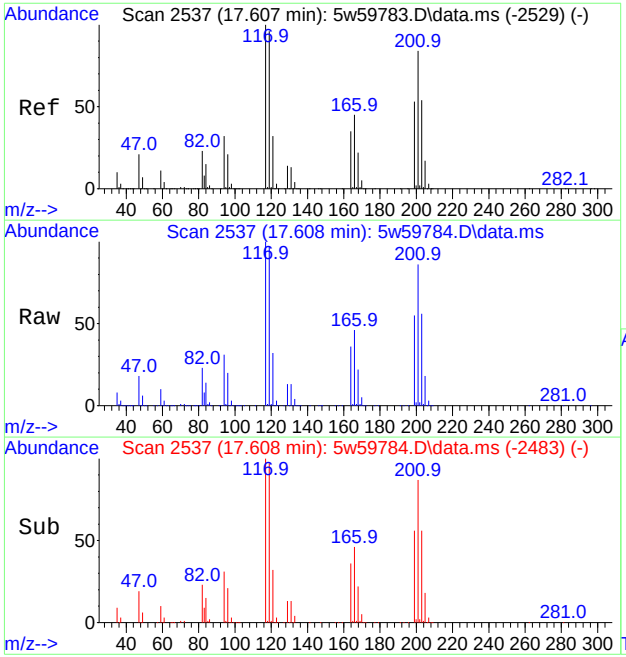


#104
n-BUTYLBENZENE
Concen: 24.56 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1447206

Ion	Ratio	Lower	Upper
134	100		
91	376.5	363.1	423.1

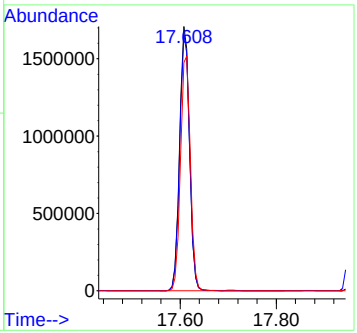


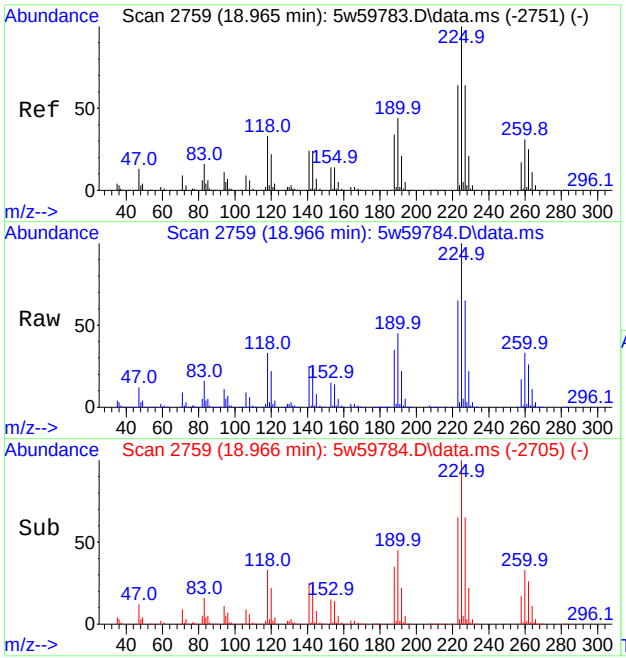


#105
HEXACHLOROETHANE
Concen: 22.06 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2435886

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	89.0	61.1	113.5

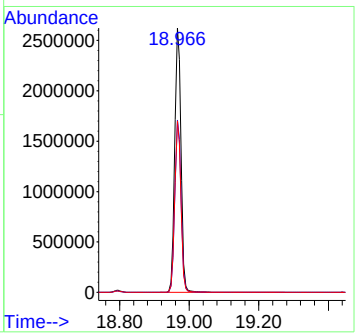


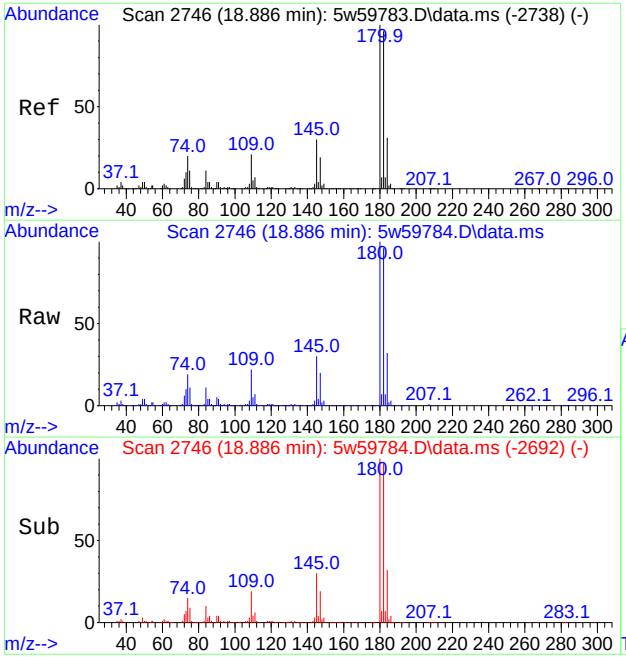


#106
HEXACHLOROBUTADIENE
Concen: 18.79 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:225 Resp: 3259497

Ion	Ratio	Lower	Upper
225	100		
227	64.9	34.2	94.2
223	64.0	33.3	93.3

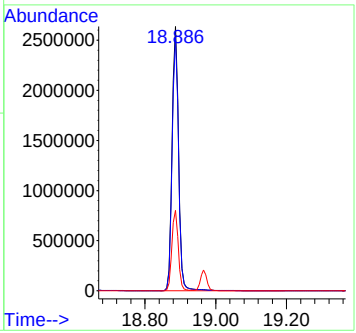


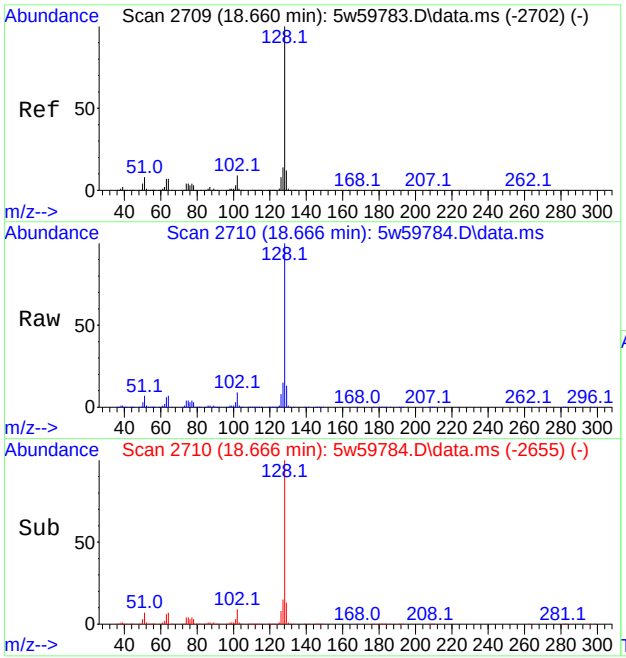


#107
1,2,4-TRICHLOROBENZENE
Concen: 28.94 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:180 Resp: 3337105

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	30.1	0.0	59.4

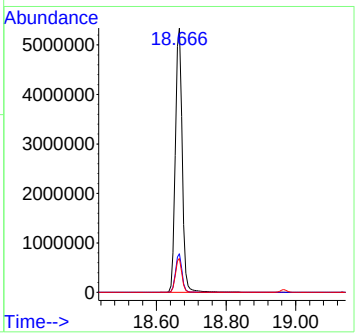


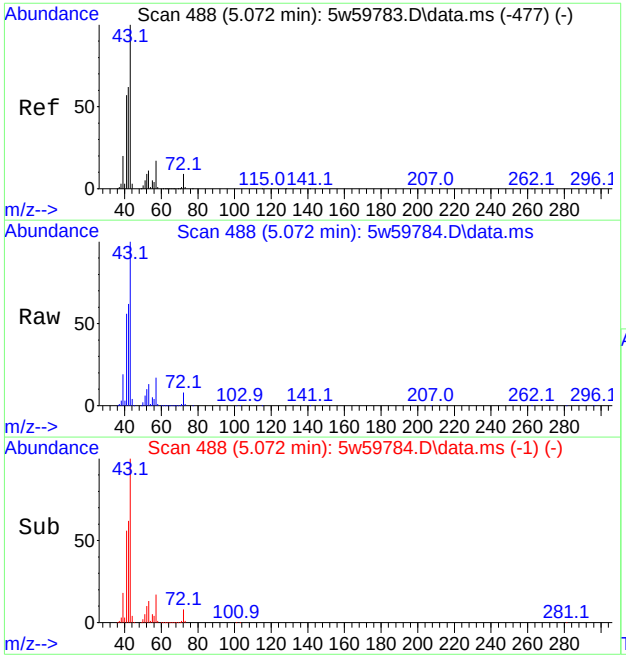


#108
NAPHTHALENE
Concen: 26.85 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:128 Resp: 7329968

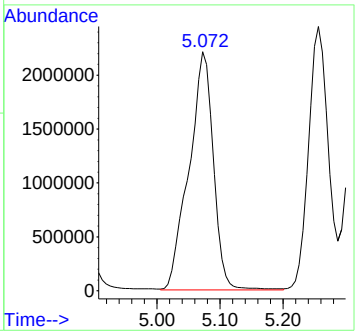
Ion	Ratio	Lower	Upper
128	100		
127	14.0	0.0	43.3
129	12.2	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 16.52 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:TIC Resp: 5936529



Manual Integration Approval Summary

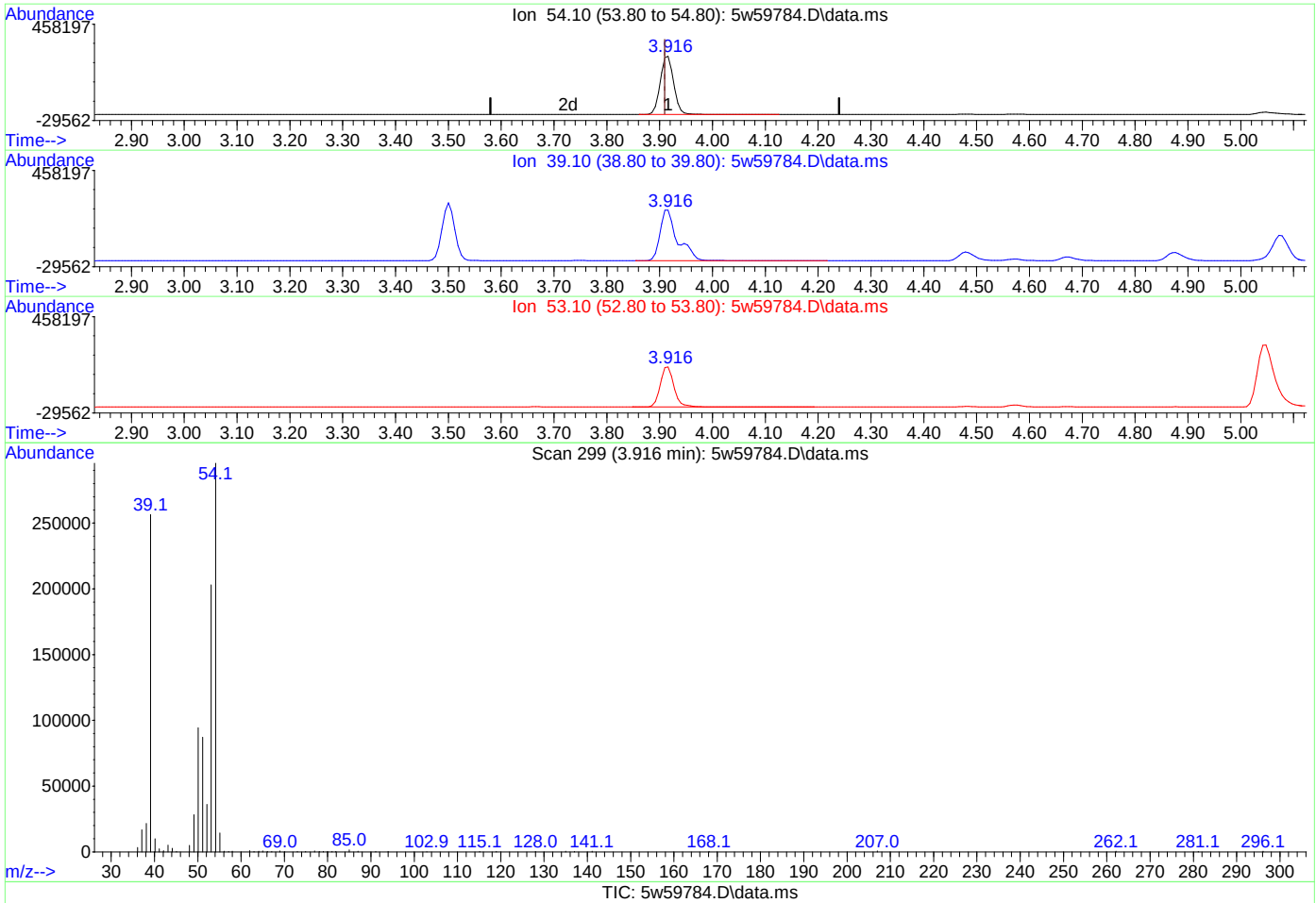
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59784.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:12 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		3.92	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV

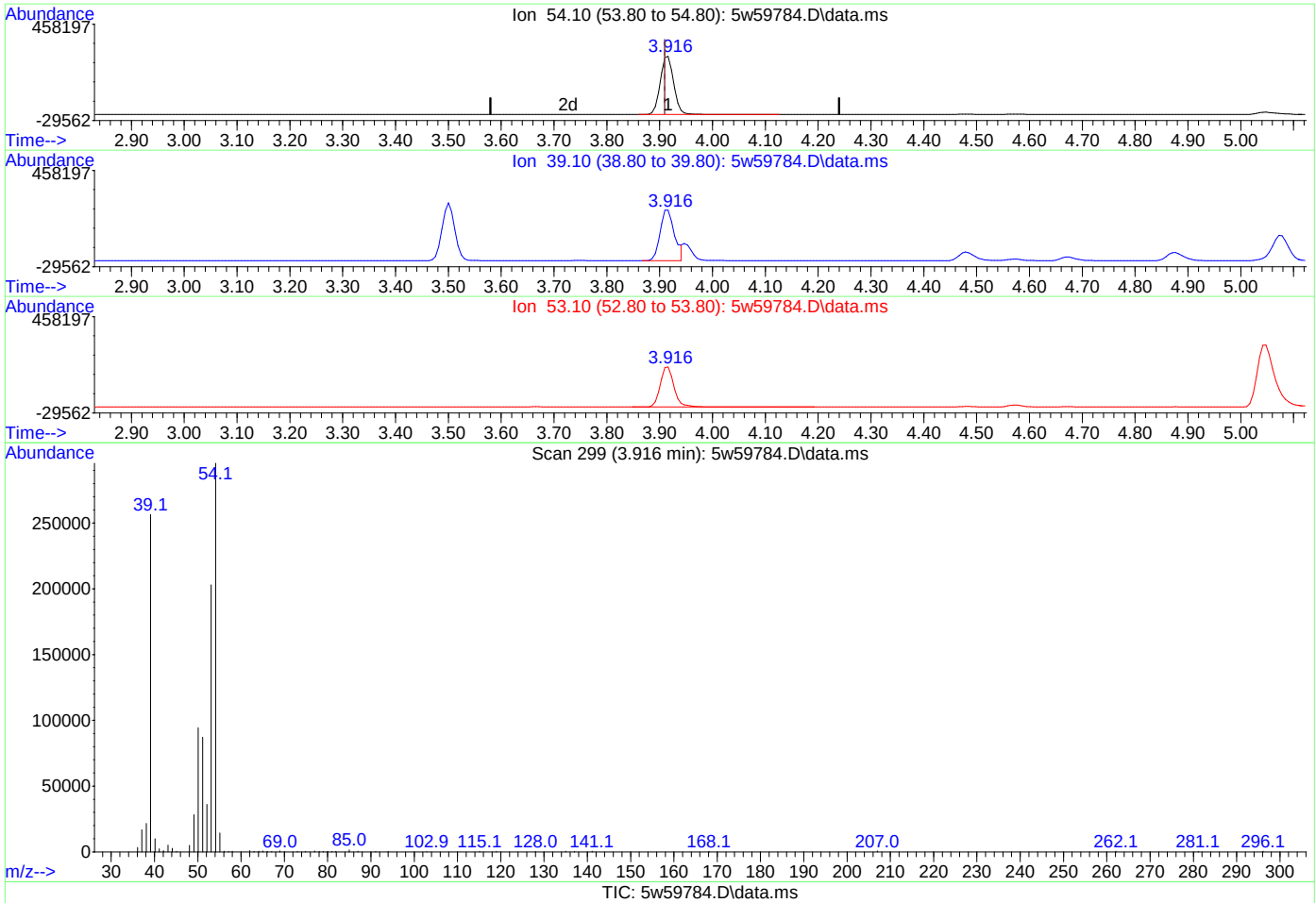
response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	113.35
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV m

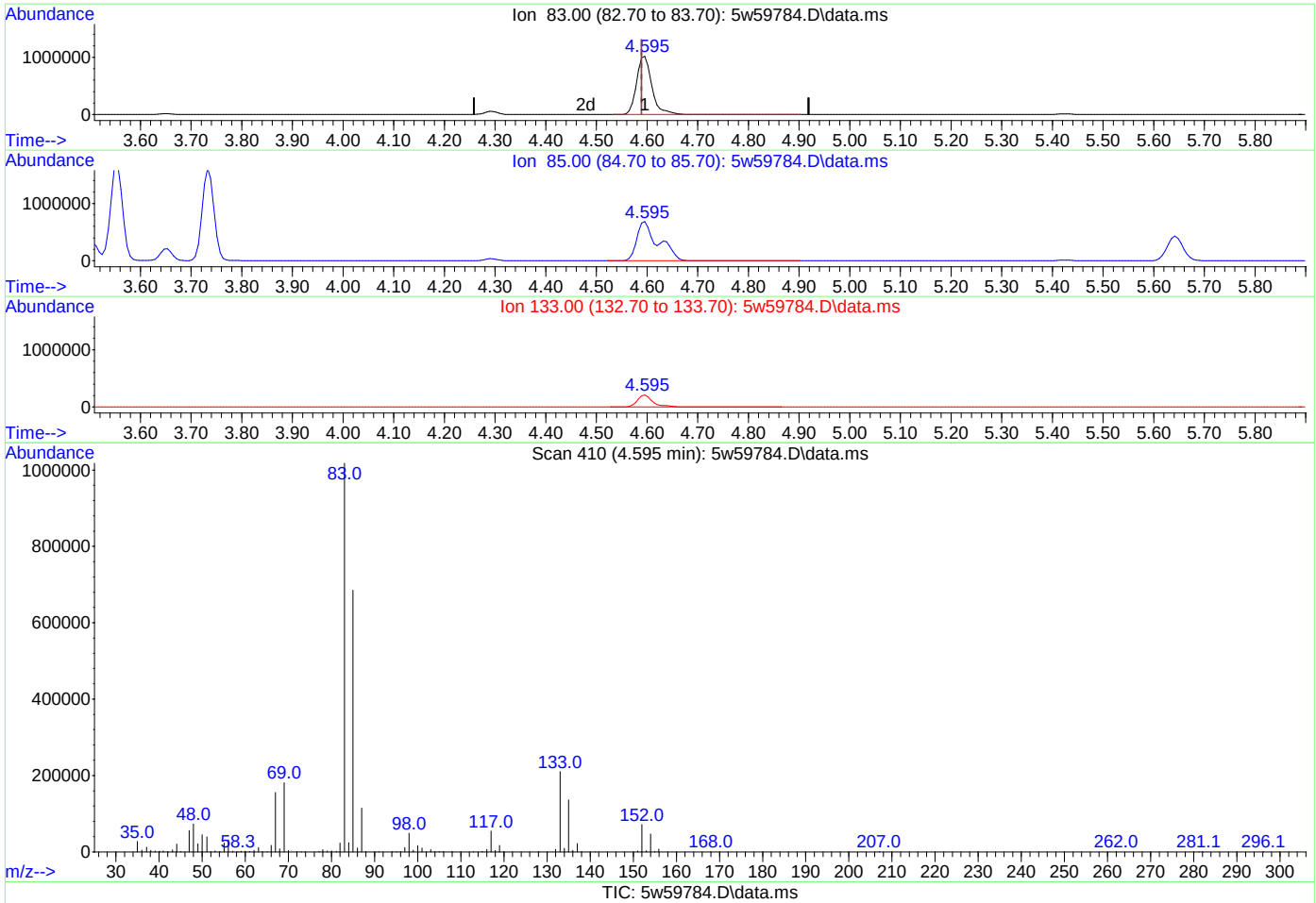
response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	93.33
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV

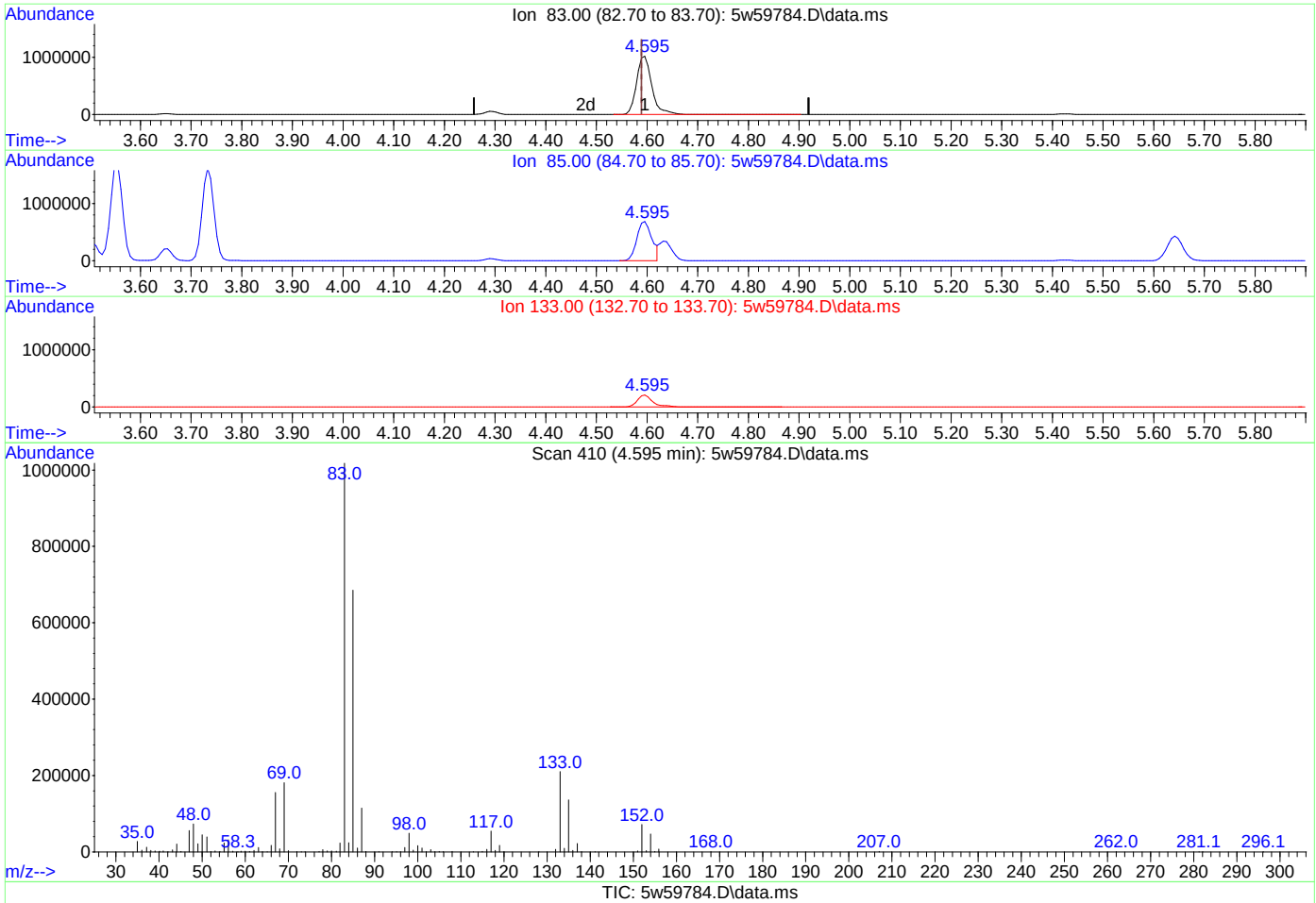
response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.23#
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV m

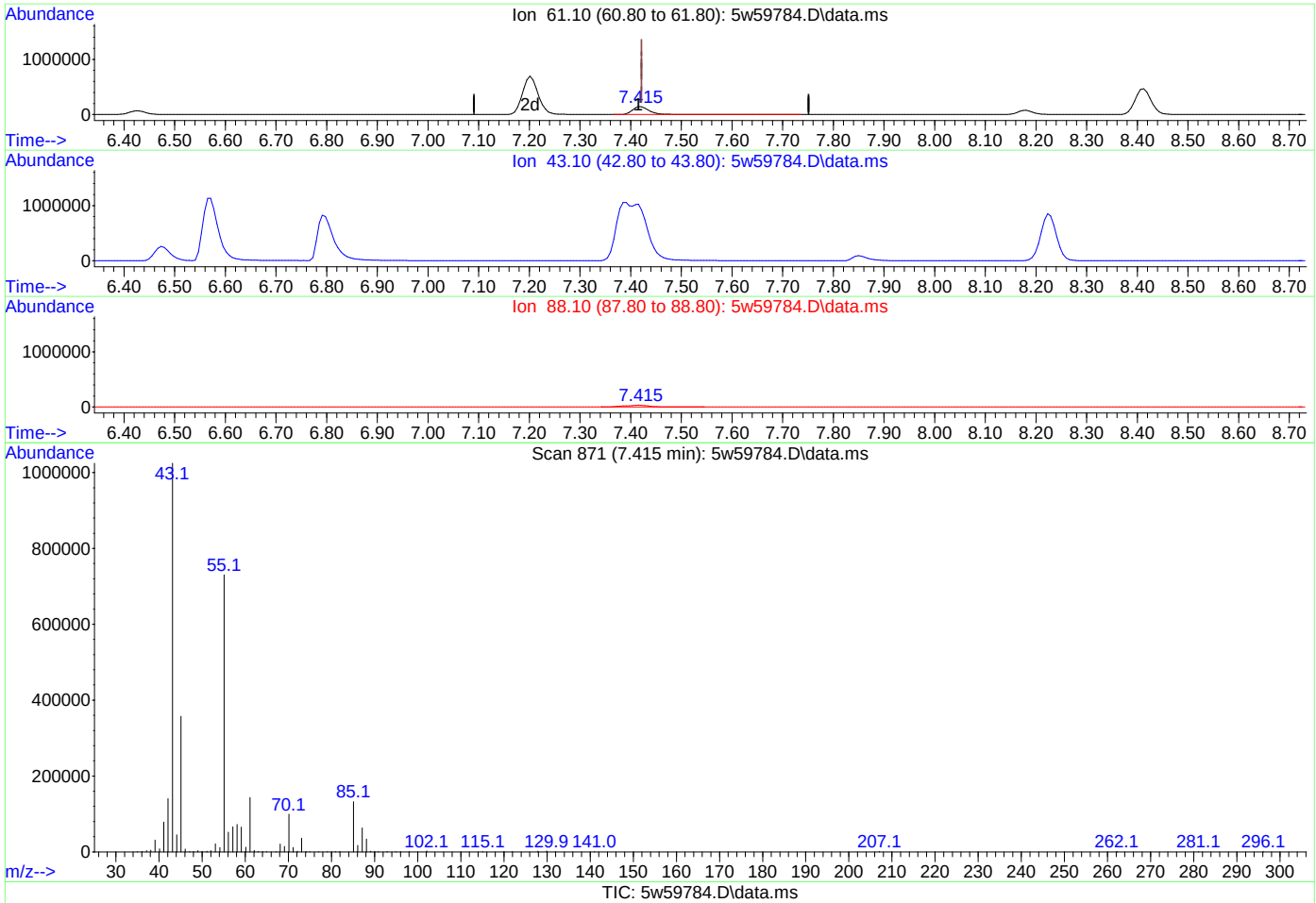
response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	66.65
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV

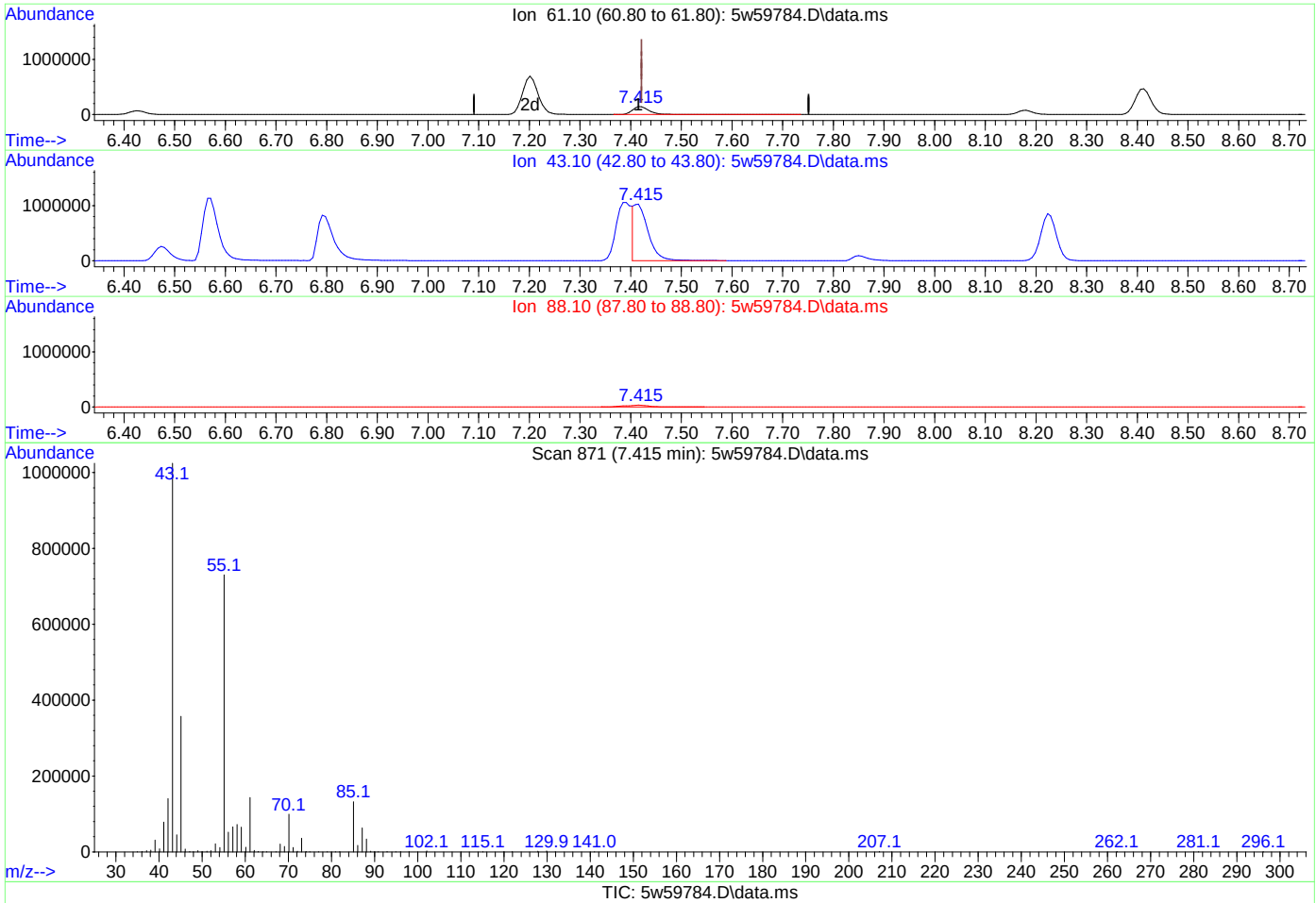
response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV m

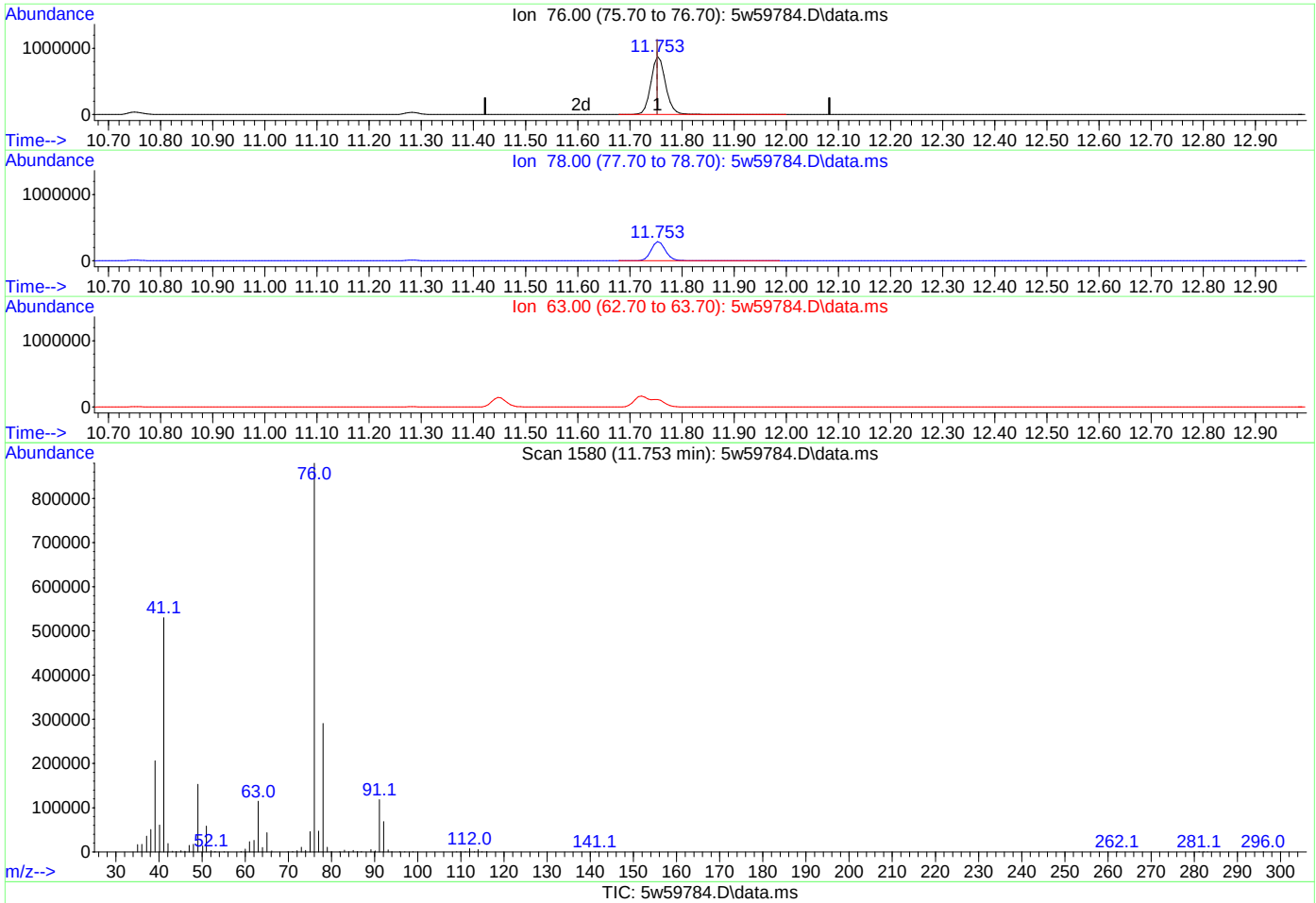
response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	580.22
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV

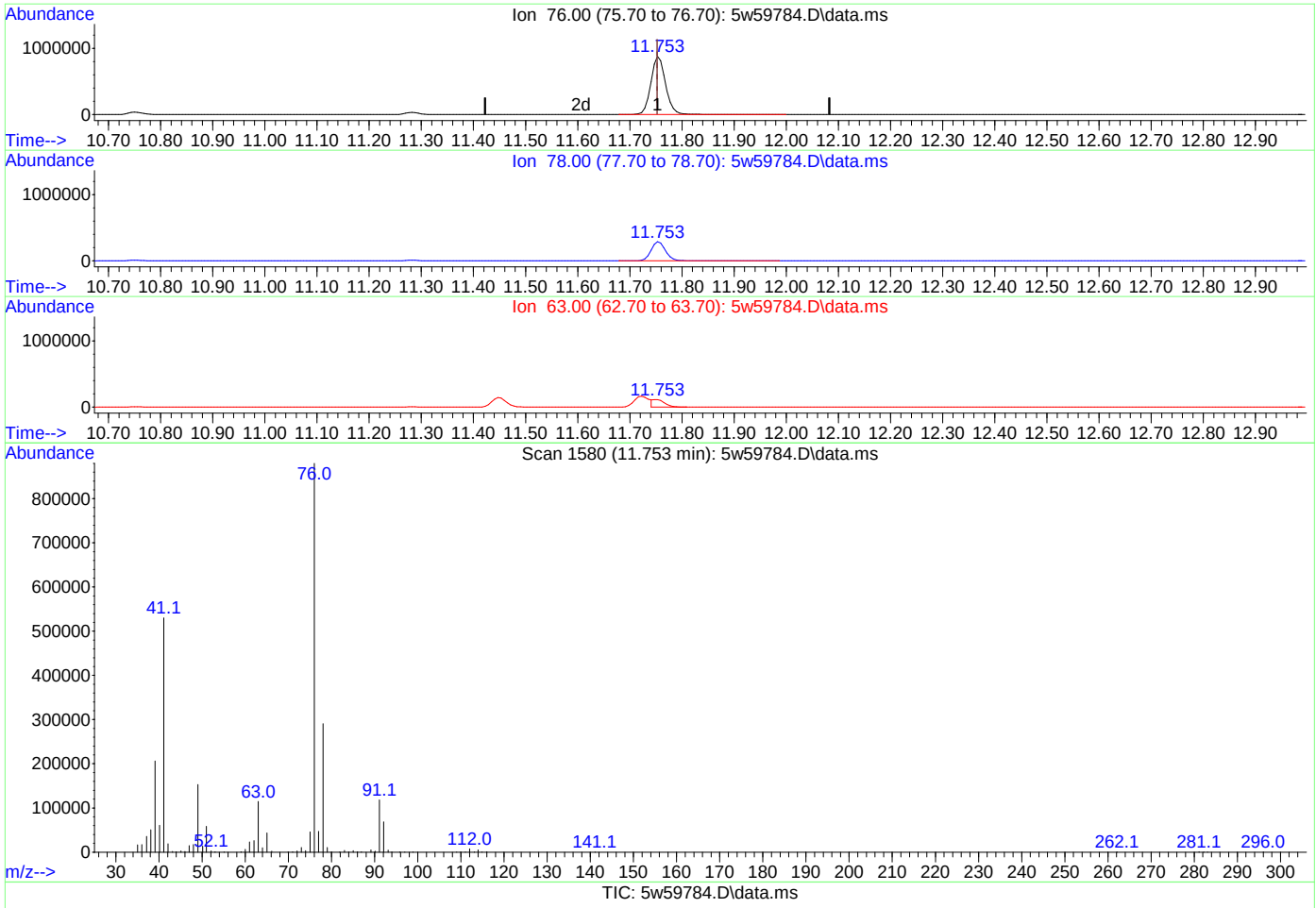
response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV m

response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	10.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	458599	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1942721	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1247352	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	458722	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1398246	9.05	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.50%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	510693	9.37	PPBV	100
3) FREON 152A	3.445	65	1313214	37.53	PPBV	97
4) CHLORODIFLUOROMETHANE	3.476	67	606229	38.04	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	3030922	39.97	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.549	85	5182161	34.55	PPBV	98
7) PROPYLENE	3.500	41	1339768	35.21	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	3864501	29.06	PPBV	99
9) FREON 114	3.733	85	4558389	35.25	PPBV	98
10) CHLOROMETHANE	3.665	52	502015	31.88	PPBV	97
11) VINYL CHLORIDE	3.818	62	1652876	33.07	PPBV	99
12) 1,3-BUTADIENE	3.910	54	986783	29.91	PPBV	99
13) n-BUTANE	3.947	43	1549667	26.23	PPBV	99
14) BROMOMETHANE	4.106	94	1791748	36.10	PPBV	100
15) CHLOROETHANE	4.228	64	730406	32.03	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	3504203	30.34	PPBV	99
17) ACETONITRILE	4.479	41	862154	25.50	PPBV	99
18) ACROLEIN	4.571	56	516183	28.89	PPBV	95
19) FREON 123	4.589	83	3786151m	32.62	PPBV	
20) FREON 123A	4.632	117	2385952	33.24	PPBV	94
21) TRICHLOROFLUOROMETHANE	4.791	101	4286330	26.66	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	3091991	27.22	PPBV	99
23) ACETONE	4.669	58	611815	29.72	PPBV	97
24) PENTANE	5.072	42	1748442	28.85	PPBV	97
25) IODOMETHANE	5.256	142	6000517	39.54	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	1913922	35.49	PPBV	96
27) CARBON DISULFIDE	5.672	76	5159120	36.29	PPBV	98
28) ETHANOL	4.320	45	528233	23.67	PPBV	99
29) BROMOETHENE	4.479	106	1797717	37.63	PPBV	100
30) ACRYLONITRILE	5.042	52	1271597	36.54	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	1660696	34.35	PPBV	97
32) 3-CHLOROPROPENE	5.525	76	861126	38.85	PPBV	93
33) FREON 113	5.641	151	3469148	36.66	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2022318	36.73	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.372	59	3394797	29.74	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	5102873	37.67	PPBV	99
37) TETRAHYDROFURAN	7.844	72	801341	44.15	PPBV	98
38) HEXANE	7.385	57	2879156	37.98	PPBV	93
39) VINYL ACETATE	6.571	86	363965	40.72	PPBV #	86
40) 1,1-DICHLOROETHANE	6.424	63	3644940	36.44	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	879599	46.66	PPBV	90
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2133694	37.52	PPBV	98
43) DIISOPROPYL ETHER	7.391	59	905463	43.95	PPBV #	83
44) ETHYL ACETATE	7.415	61	671399m	43.14	PPBV	
45) METHYL ACRYLATE	7.409	55	3595052	40.28	PPBV	97
46) CHLOROFORM	7.483	83	4216969	36.42	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	3428957	38.76	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	4473116	35.48	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	4942966	35.62	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	3028960	37.08	PPBV		99
52)	BENZENE	8.859	78	5773385	44.75	PPBV		100
53)	CYCLOHEXANE	9.110	84	2282258	44.64	PPBV		98
54)	2,3-DIMETHYLPENTANE	9.355	71	1205121	46.80	PPBV		95
55)	TRICHLOROETHYLENE	9.893	95	2886125	41.87	PPBV		99
56)	1,2-DICHLOROPROPANE	9.654	63	2329113	42.47	PPBV		99
57)	DIBROMOMETHANE	9.636	174	3208165	42.48	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	4517787	46.25	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	4951368	40.63	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	8459039	38.93	PPBV		97
61)	1,4-DIOXANE	9.893	88	1215269	45.35	PPBV	#	1
62)	HEPTANE	10.187	43	2988992	37.77	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	1989625	49.92	PPBV		98
64)	METHYL ISOBUTYL KETONE	10.786	58	1921879	47.23	PPBV		92
65)	cis-1,3-DICHLOROPROPENE	10.756	75	4023307	47.39	PPBV		92
66)	TOLUENE	11.722	92	4414753	47.83	PPBV		97
67)	1,3-DICHLOROPROPANE	11.759	76	3397591m	44.02	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	3536223	45.59	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.453	83	2422259	47.73	PPBV		100
71)	2-HEXANONE	12.004	58	2753205	43.59	PPBV		91
72)	ETHYL METHACRYLATE	12.028	69	3484828	43.20	PPBV		92
73)	TETRACHLOROETHYLENE	12.878	164	3370251	35.84	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	5622668	35.57	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	4750806	40.93	PPBV		100
76)	OCTANE	12.750	43	4235557	32.56	PPBV		94
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	3854037	37.26	PPBV		100
78)	CHLOROBENZENE	13.588	112	6101033	35.87	PPBV		99
79)	ETHYLBENZENE	13.986	91	9323124	38.31	PPBV		96
80)	m,p-XYLENE	14.188	106	7385992	79.24	PPBV		91
81)	o-XYLENE	14.683	106	3531781	41.16	PPBV		95
82)	STYRENE	14.573	104	5945197	45.55	PPBV		99
83)	NONANE	14.940	43	4120325	31.95	PPBV		94
84)	BROMOFORM	14.255	173	6063084	37.29	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	5834633	38.41	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	4239056	33.30	PPBV		98
88)	ISOPROPYLBENZENE	15.301	105	10105051	35.54	PPBV		96
89)	BROMOBENZENE	15.381	77	5092227	34.24	PPBV		97
90)	2-CHLOROTOLUENE	15.772	126	2919479	38.46	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	2929586	38.73	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	9932010	38.91	PPBV		95
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	8308295	35.08	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.200	118	4732251	41.57	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1826681	37.13	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	7744703	33.90	PPBV		97
97)	m-DICHLOROBENZENE	16.586	146	6361294	34.54	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	7942485	38.06	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	6796416	35.68	PPBV		98
100)	sec-BUTYLBENZENE	16.702	134	2382473	37.89	PPBV	#	76
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	7842082	32.09	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	2537472	35.07	PPBV	#	85
103)	o-DICHLOROBENZENE	16.983	146	6444852	34.67	PPBV		98
104)	n-BUTYLBENZENE	17.265	134	2846318	43.05	PPBV	#	78
105)	HEXACHLOROETHANE	17.614	117	4455103	36.00	PPBV		97
106)	HEXACHLOROBUTADIENE	18.972	225	5455879	28.29	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.886	180	6383531	48.55	PPBV		99
108)	NAPHTHALENE	18.666	128	12695949	41.10	PPBV		93
110)	TVHC as equiv Pentane	5.072	TIC	11631459	33.13	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

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

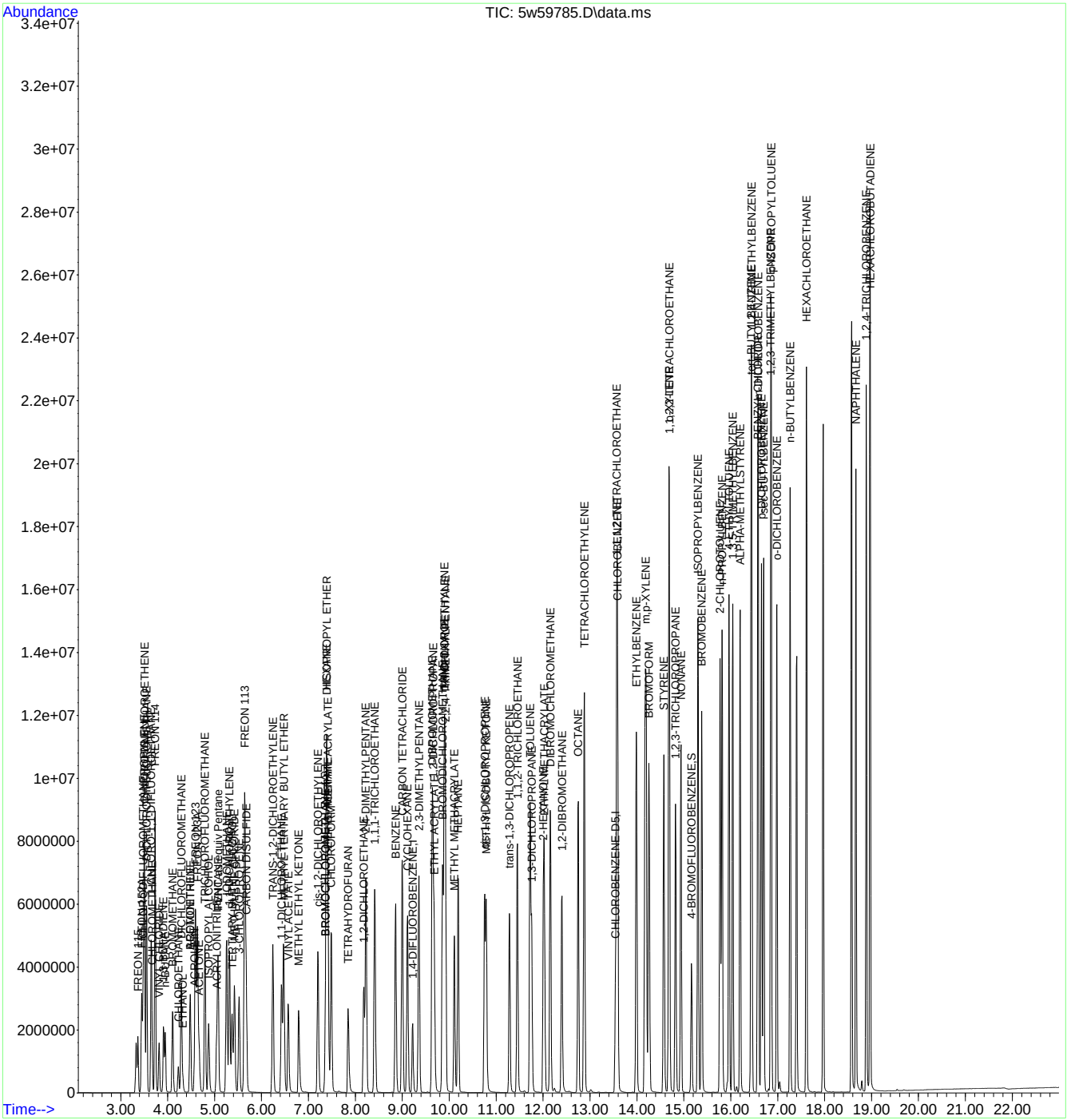
(#) = qualifier out of range (m) = manual integration (+) = signals summed

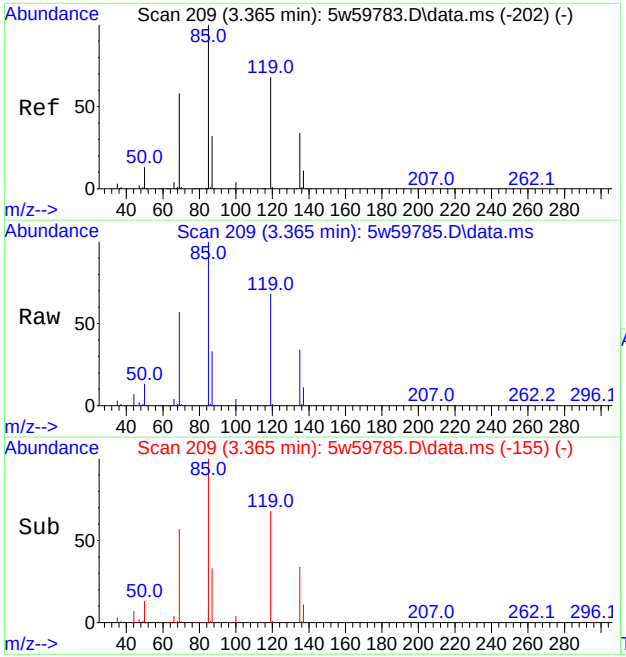
7.7.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

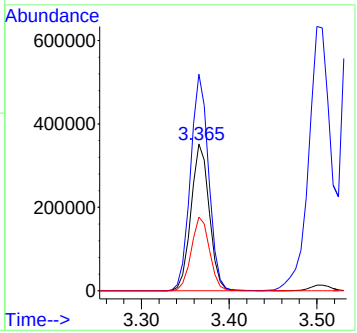


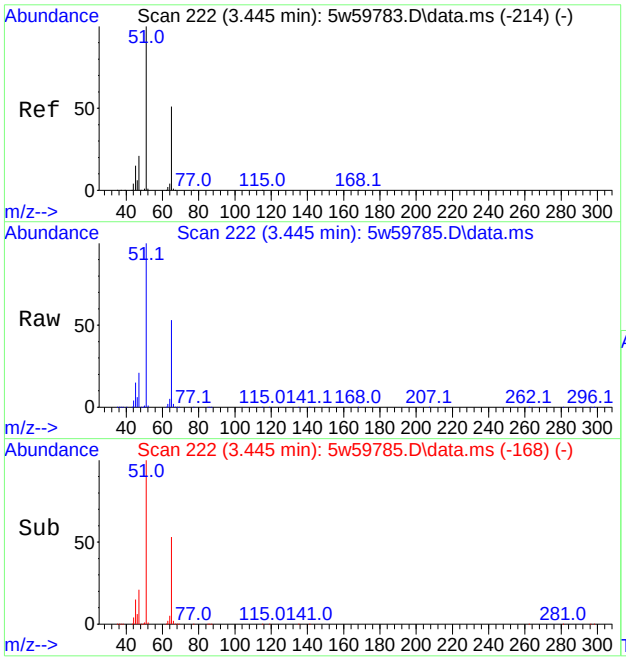


#2
FREON 115
Concen: 9.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:119 Resp: 510693

Ion	Ratio	Lower	Upper
119	100		
85	146.8	116.2	176.2
135	50.3	20.6	80.6

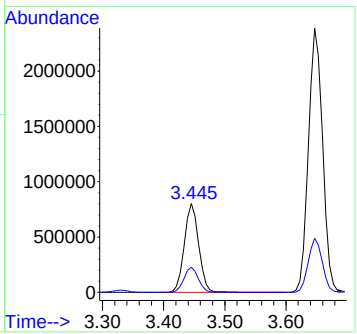


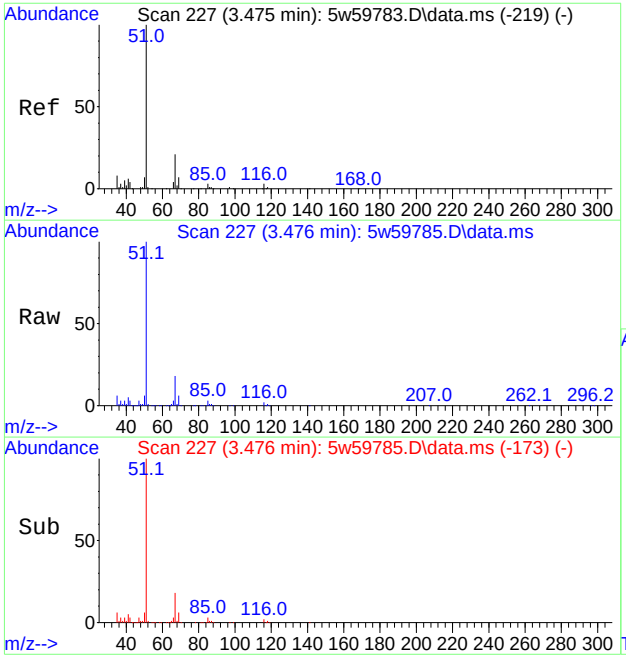


#3
FREON 152A
Concen: 37.53 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 1313214

Ion	Ratio	Lower	Upper
65	100		
45	28.4	0.0	60.0

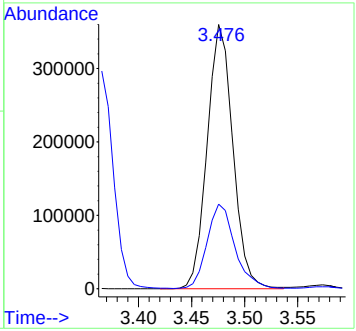


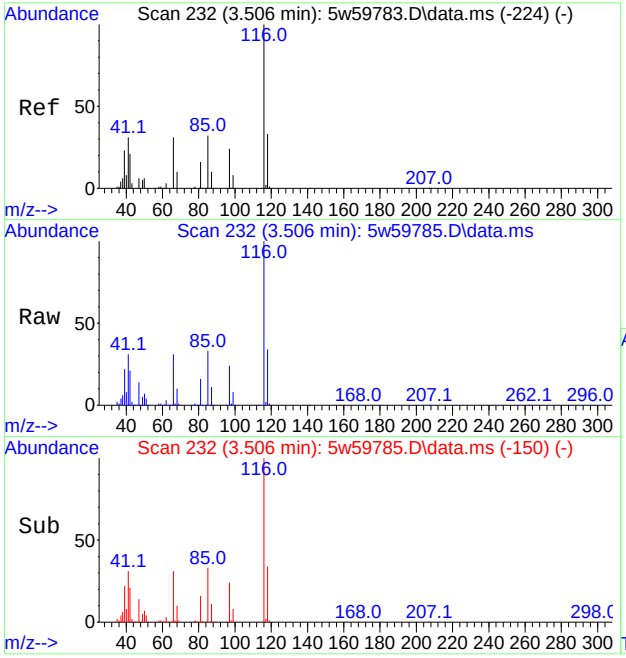


#4
CHLORODIFLUOROMETHANE
Concen: 38.04 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 606229

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

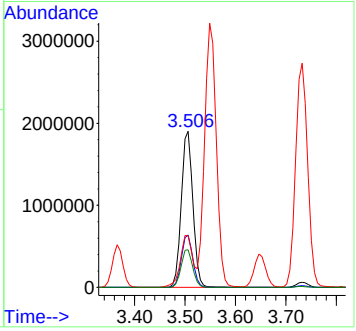


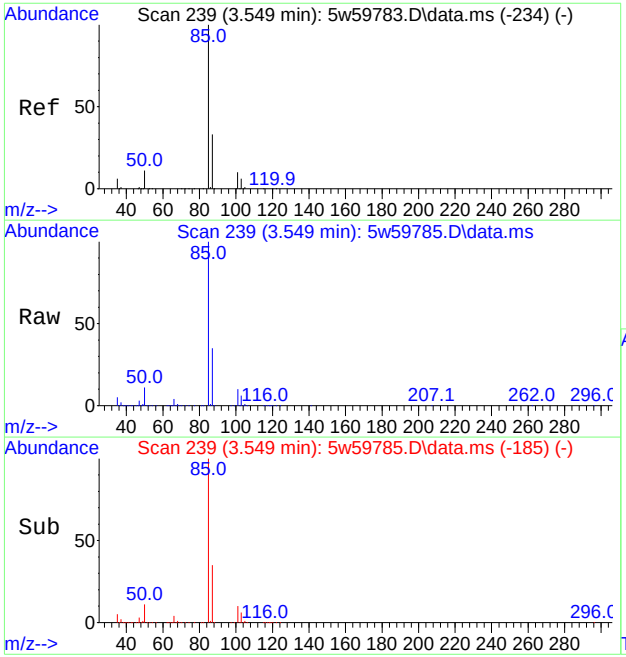


#5
CHLOROTRIFLUOROETHENE
Concen: 39.97 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:116 Resp: 3030922

Ion	Ratio	Lower	Upper
116	100		
118	33.3	22.9	42.5
85	37.1	23.7	44.1
97	24.2	17.0	31.6

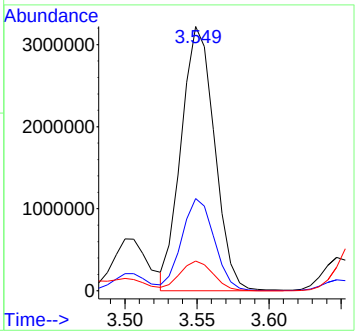


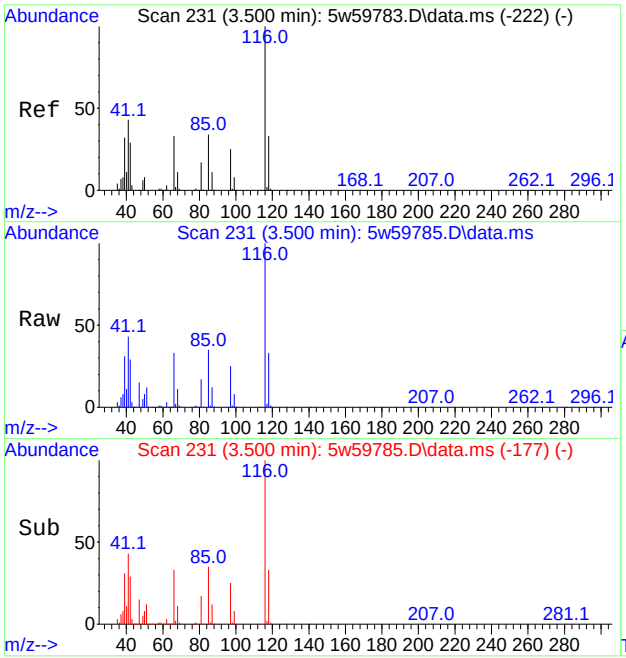


#6
DICHLORODIFLUOROMETHANE
Concen: 34.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 5182161

Ion	Ratio	Lower	Upper
85	100		
87	34.2	2.5	62.5
50	11.3	0.0	41.7

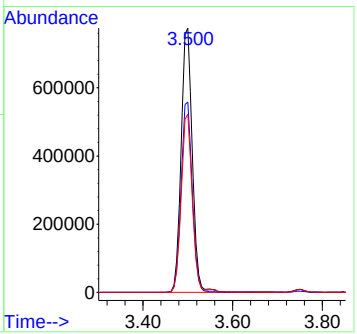


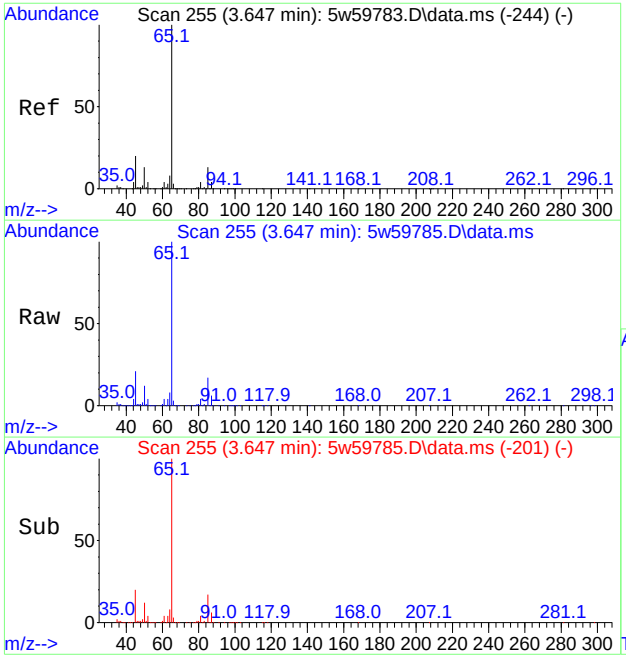


#7
PROPYLENE
Concen: 35.21 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 1339768

Ion	Ratio	Lower	Upper
41	100		
39	72.3	45.1	105.1
42	67.0	36.3	96.3

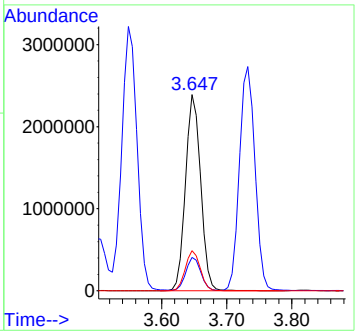


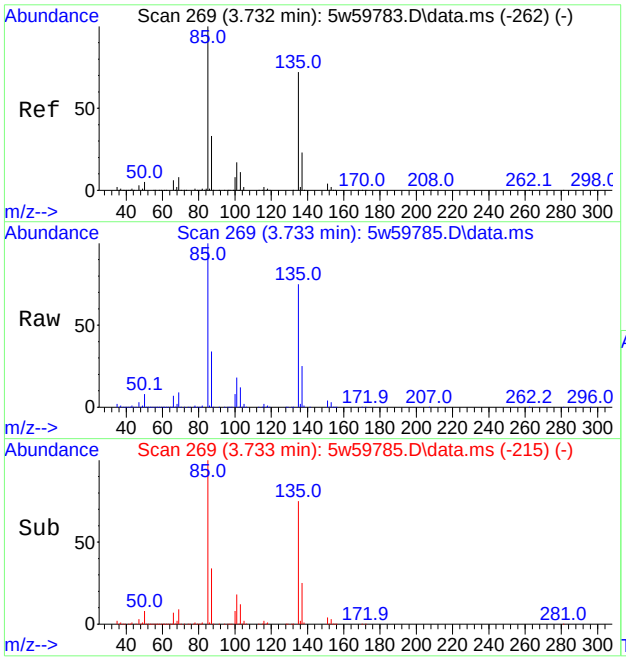


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 29.06 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 3864501

Ion	Ratio	Lower	Upper
65	100		
85	16.9	11.5	21.3
45	20.4	14.0	26.0

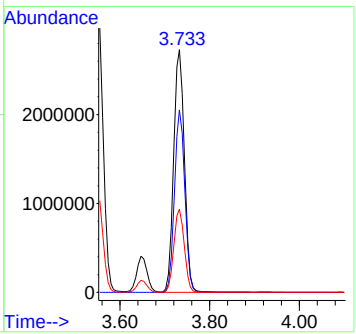


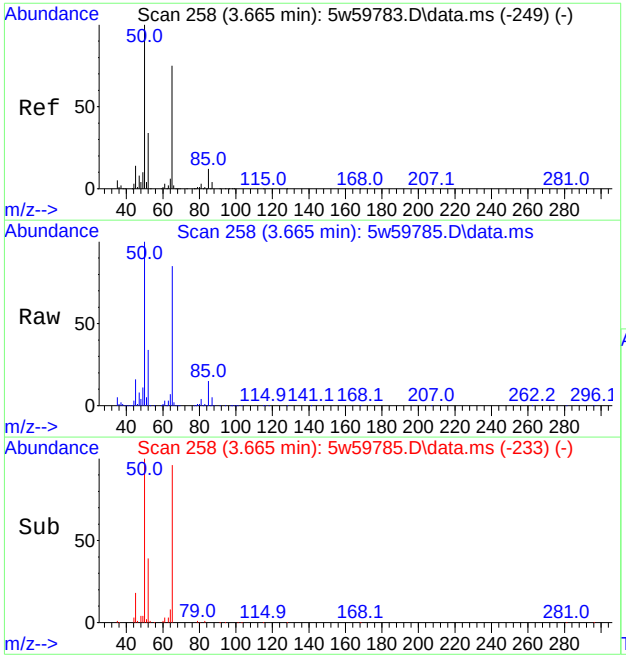


#9
FREON 114
Concen: 35.25 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 4558389

Ion	Ratio	Lower	Upper
85	100		
135	73.1	40.5	100.5
87	33.6	3.0	63.0

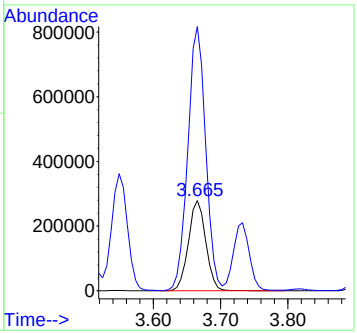


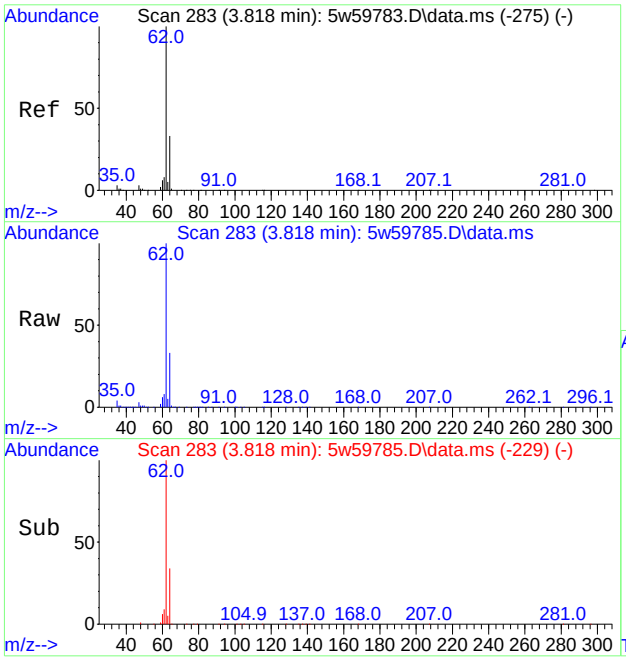


#10
CHLOROMETHANE
Concen: 31.88 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 502015

Ion	Ratio	Lower	Upper
52	100		
50	292.3	267.9	327.9

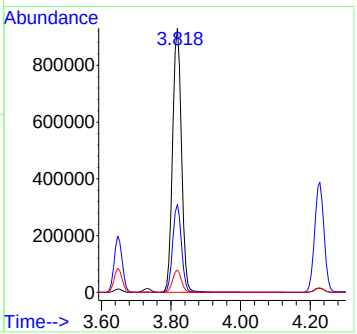


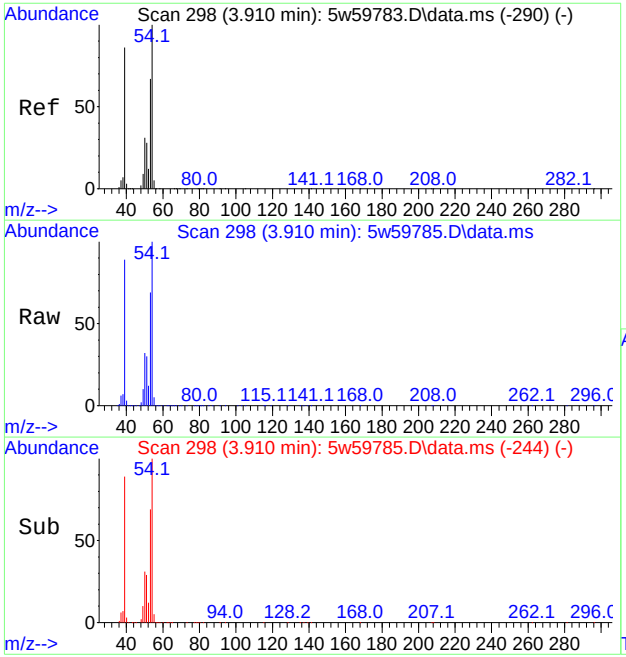


#11
VINYL CHLORIDE
Concen: 33.07 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 1652876

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

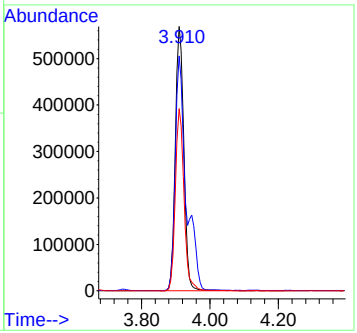


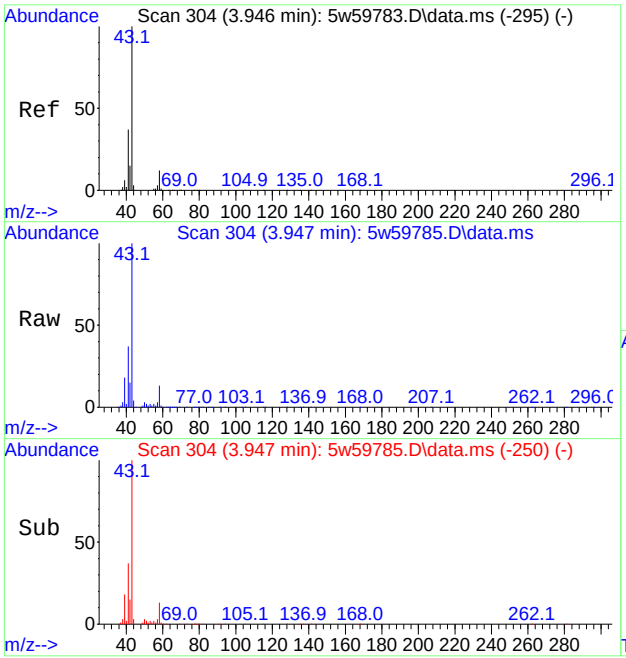


#12
1,3-BUTADIENE
Concen: 29.91 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 54 Resp: 986783

Ion	Ratio	Lower	Upper
54	100		
39	113.9	82.0	142.0
53	70.3	40.2	100.2

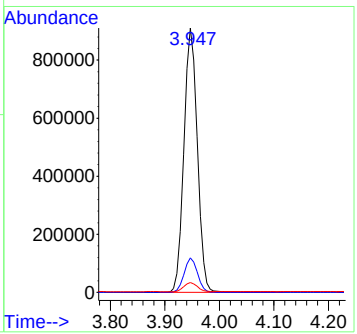


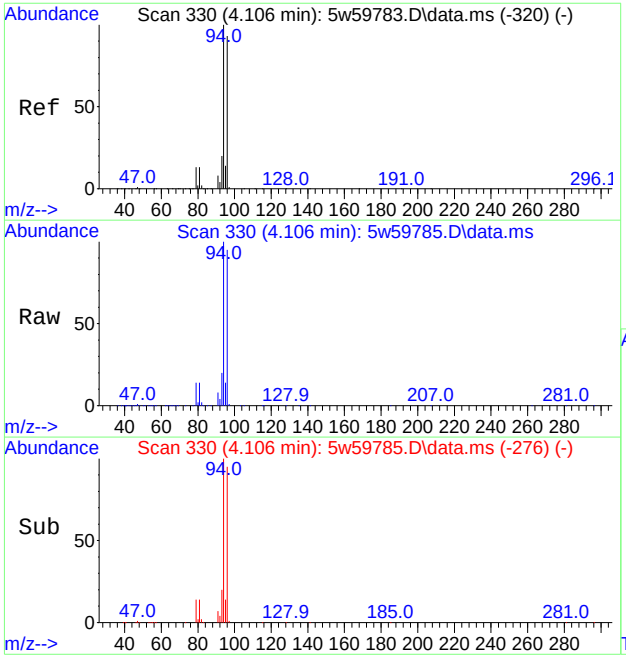


#13
n-BUTANE
Concen: 26.23 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 1549667

Ion	Ratio	Lower	Upper
43	100		
58	12.9	0.0	42.6
44	4.1	0.0	34.9

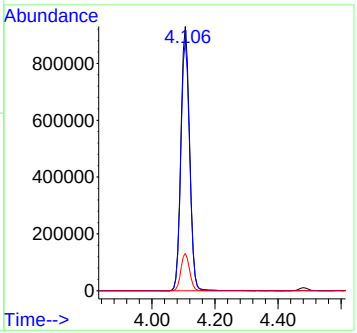


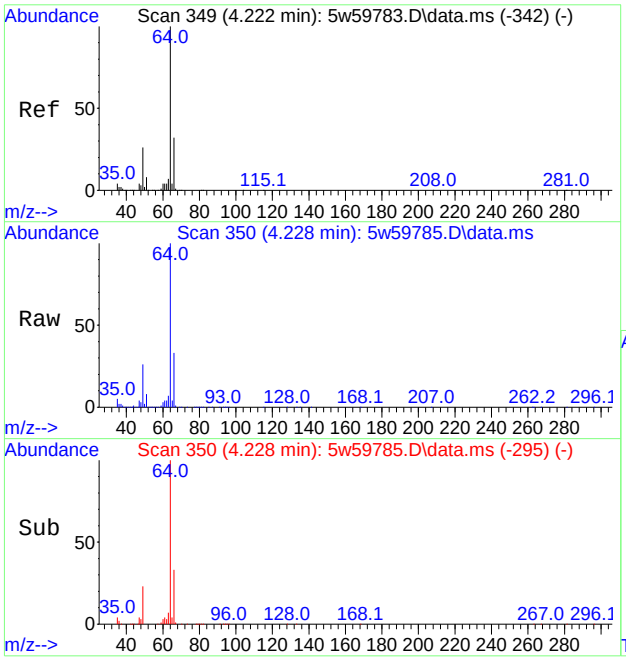


#14
BROMOMETHANE
Concen: 36.10 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 94 Resp: 1791748

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.1	0.0	44.1

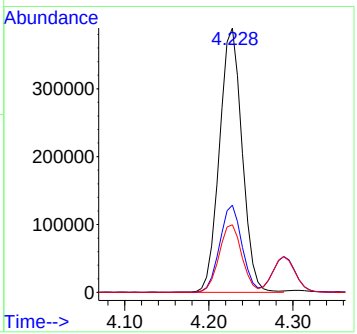


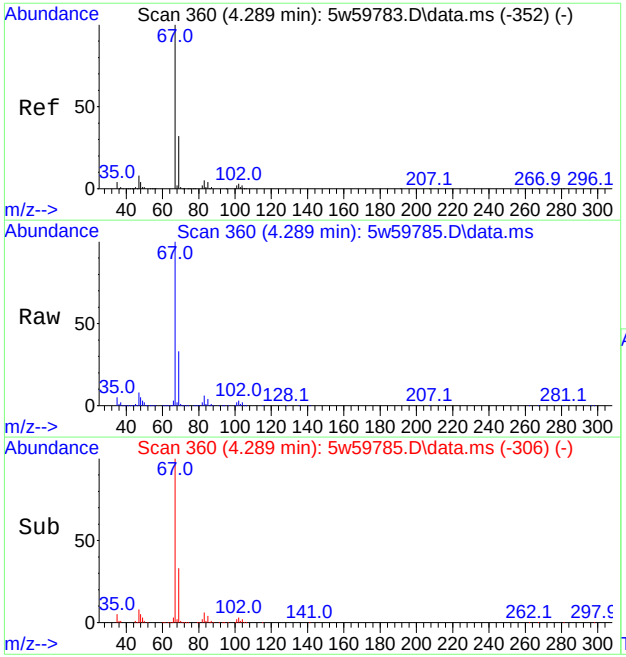


#15
CHLOROETHANE
Concen: 32.03 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 64 Resp: 730406

Ion	Ratio	Lower	Upper
64	100		
66	32.5	3.1	63.1
49	25.7	0.0	55.3

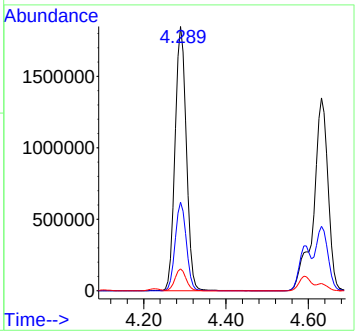


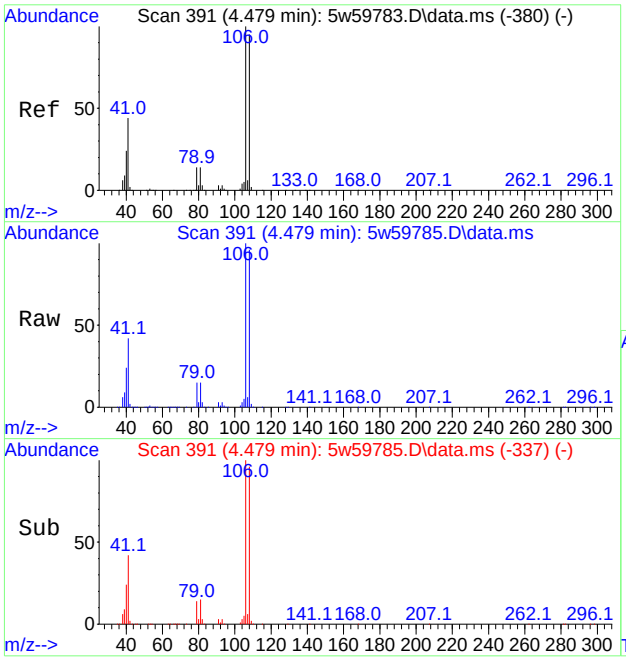


#16
DICHLOROFLUOROMETHANE
Concen: 30.34 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 3504203

Ion	Ratio	Lower	Upper
67	100		
69	33.3	22.7	42.3
47	8.3	5.6	10.4

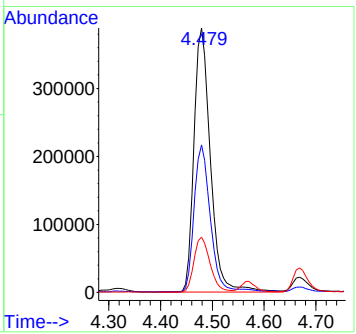


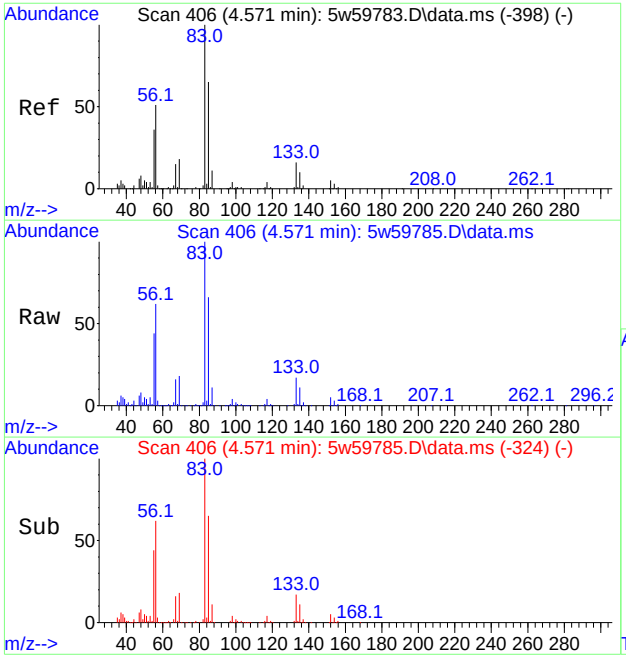


#17
ACETONITRILE
Concen: 25.50 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 862154

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

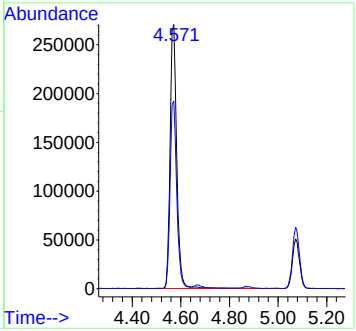


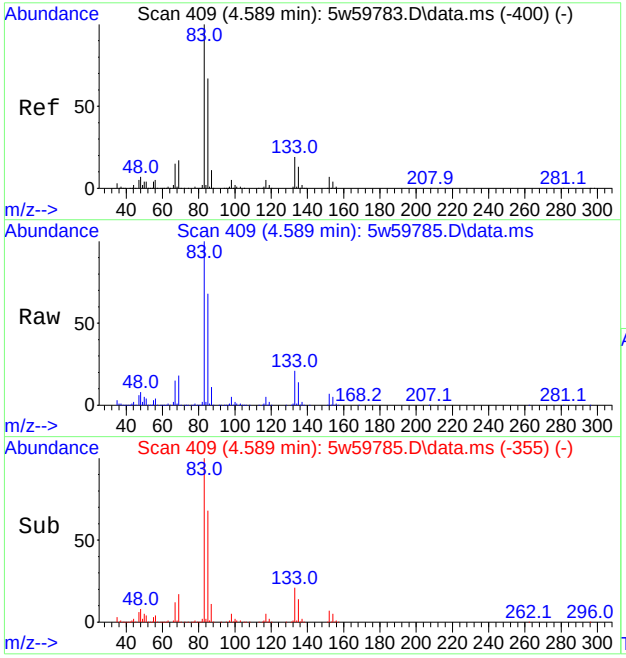


#18
ACROLEIN
Concen: 28.89 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 56 Resp: 516183

Ion	Ratio	Lower	Upper
56	100		
55	70.8	46.6	86.6

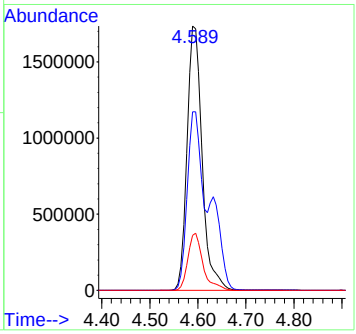


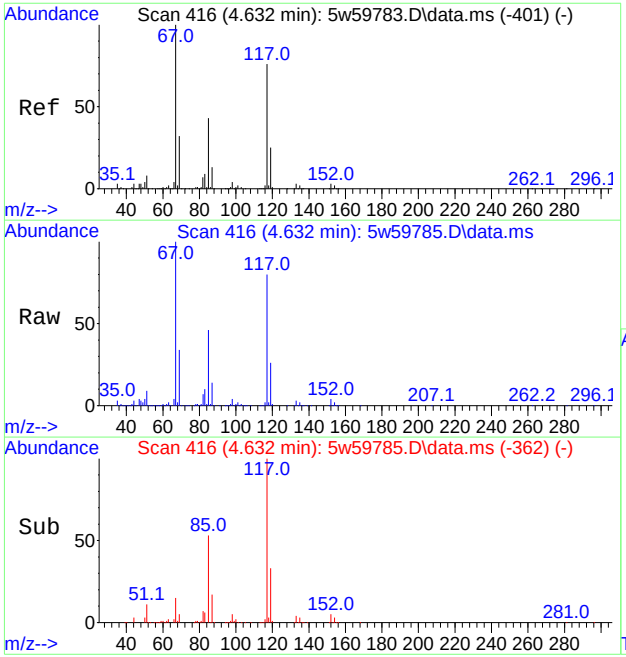


#19
FREON 123
Concen: 32.62 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 3786151

Ion	Ratio	Lower	Upper
83	100		
85	63.6	34.0	94.0
133	21.9	0.0	50.7

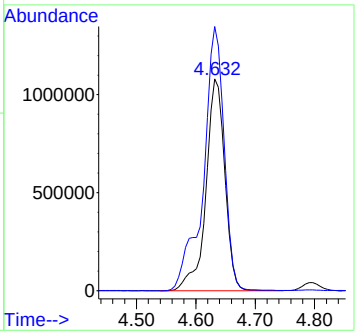


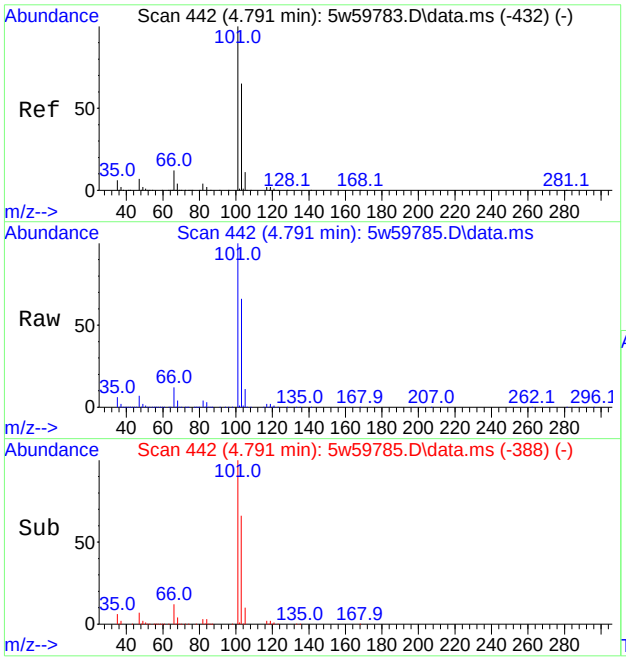


#20
FREON 123A
Concen: 33.24 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 2385952

Ion	Ratio	Lower	Upper
117	100		
67	137.4	114.6	174.6

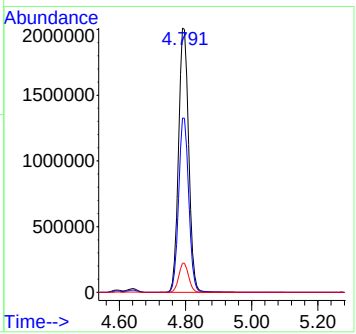


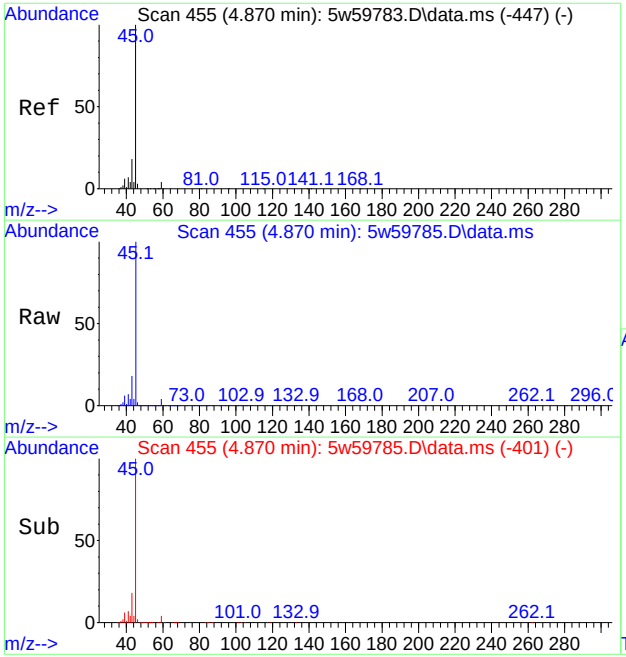


#21
TRICHLOROFLUOROMETHANE
Concen: 26.66 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:101 Resp: 4286330

Ion	Ratio	Lower	Upper
101	100		
103	65.8	35.0	95.0
105	10.9	0.0	40.7

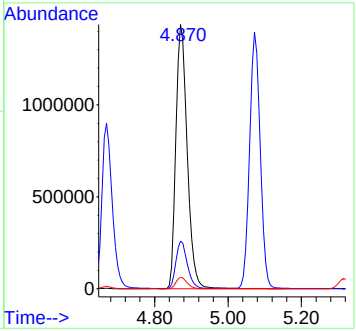


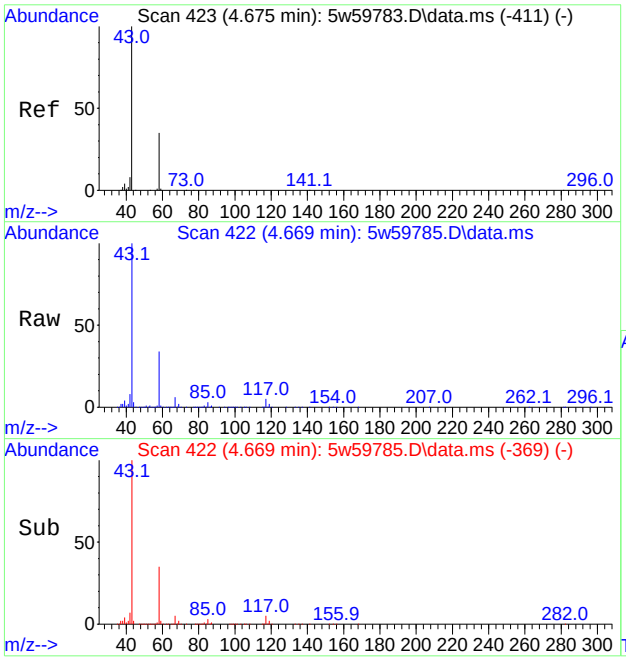


#22
ISOPROPYL ALCOHOL
Concen: 27.22 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 3091991

Ion	Ratio	Lower	Upper
45	100		
43	18.0	0.0	47.8
59	4.4	0.0	34.1

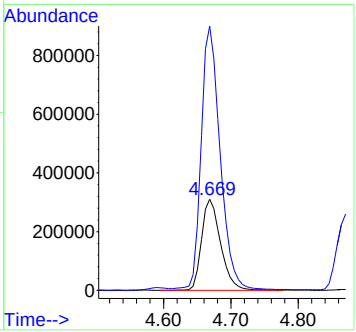


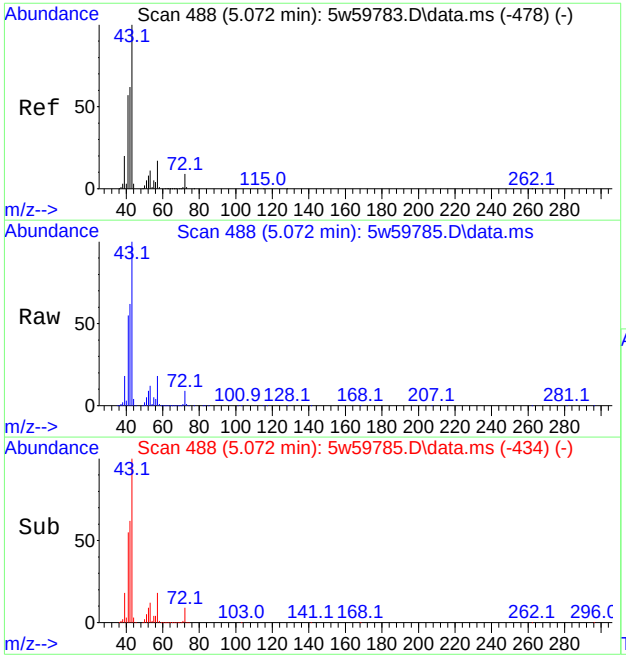


#23
ACETONE
Concen: 29.72 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 611815

Ion	Ratio	Lower	Upper
58	100		
43	288.5	252.3	312.3

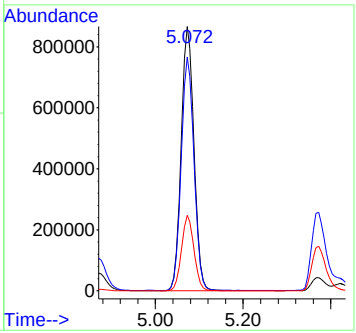


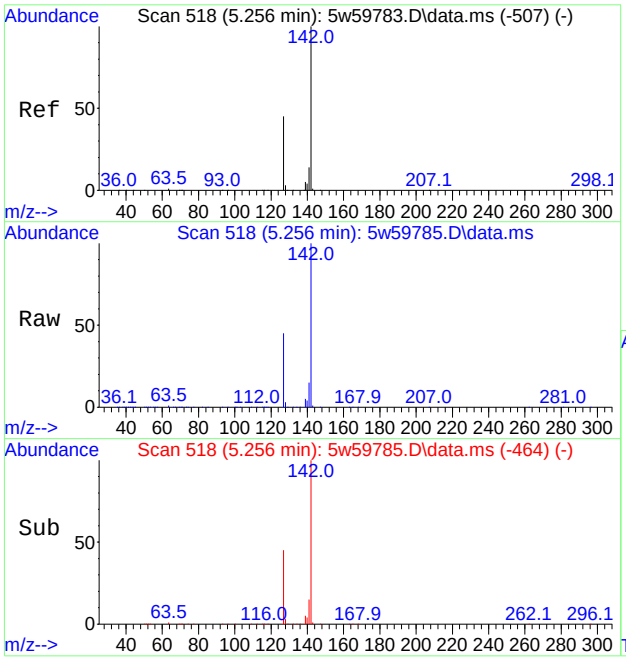


#24
PENTANE
Concen: 28.85 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 42 Resp: 1748442

Ion	Ratio	Lower	Upper
42	100		
41	89.0	62.3	122.3
57	28.1	0.0	57.7

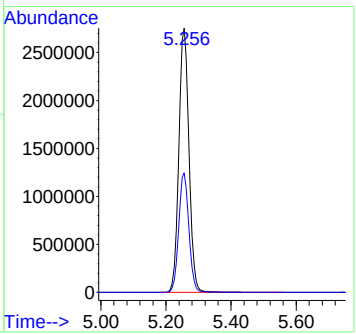


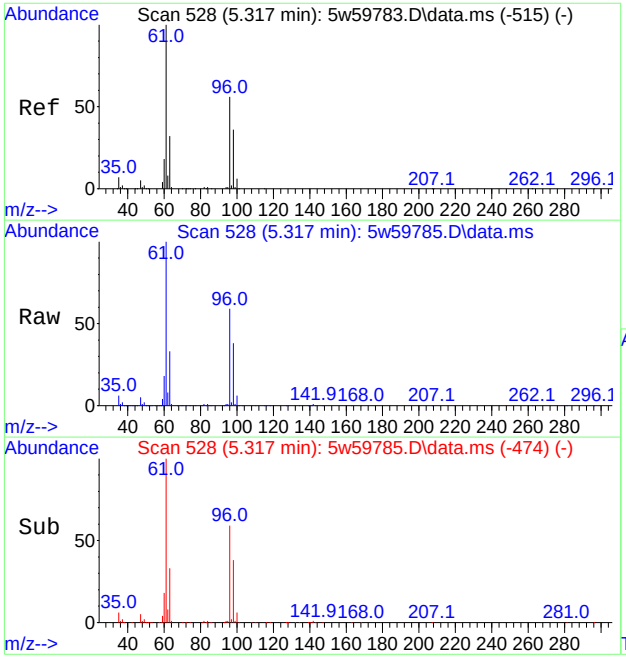


#25
IODOMETHANE
Concen: 39.54 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:142 Resp: 6000517

Ion	Ratio	Lower	Upper
142	100		
127	45.4	16.0	76.0

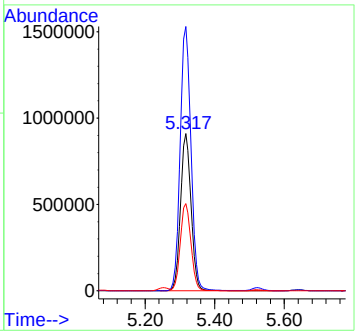


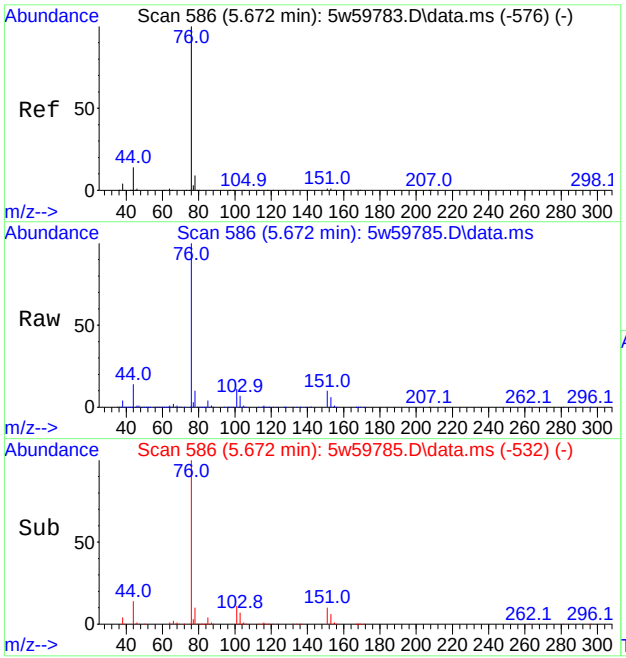


#26
1,1-DICHLOROETHYLENE
Concen: 35.49 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 1913922

Ion	Ratio	Lower	Upper
96	100		
61	172.5	148.5	208.5
63	56.3	27.4	87.4

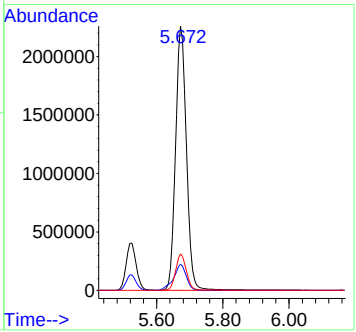


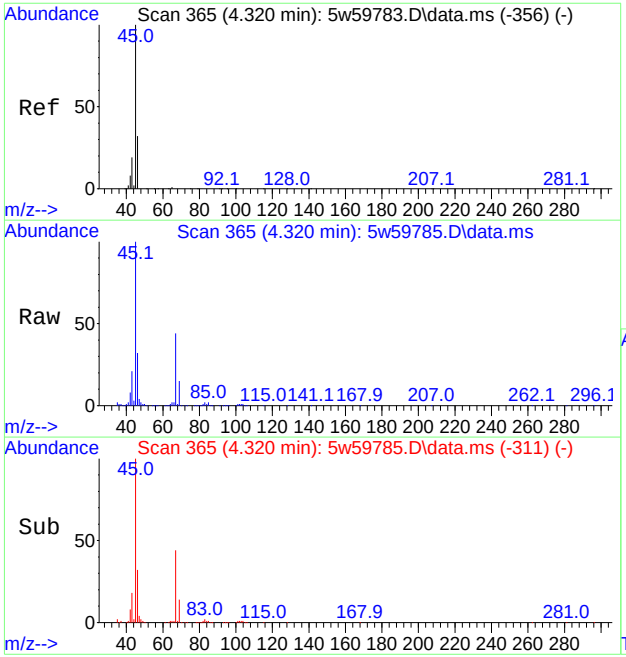


#27
CARBON DISULFIDE
Concen: 36.29 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 5159120

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.5	0.0	44.6

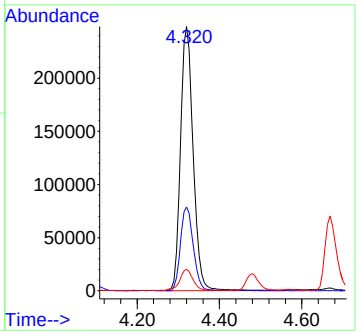


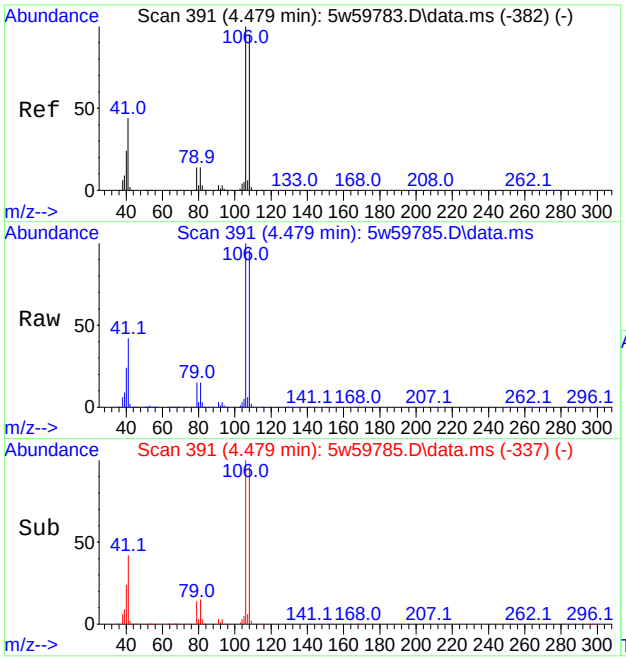


#28
ETHANOL
Concen: 23.67 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 528233

Ion	Ratio	Lower	Upper
45	100		
46	32.3	2.0	62.0
42	8.3	0.0	38.5

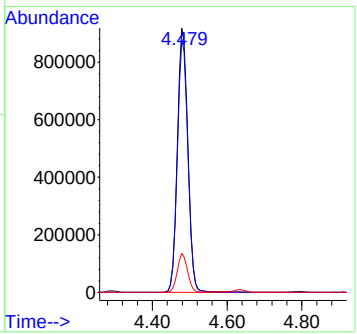


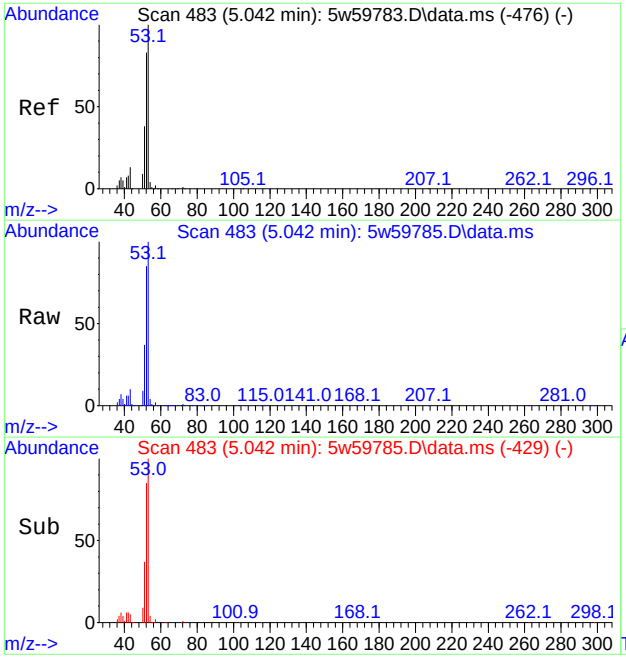


#29
BROMOETHENE
Concen: 37.63 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 1797717

Ion	Ratio	Lower	Upper
106	100		
108	95.5	65.6	125.6
81	14.2	0.0	43.9

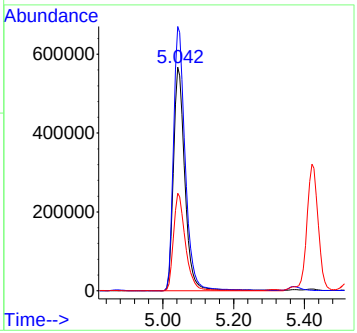


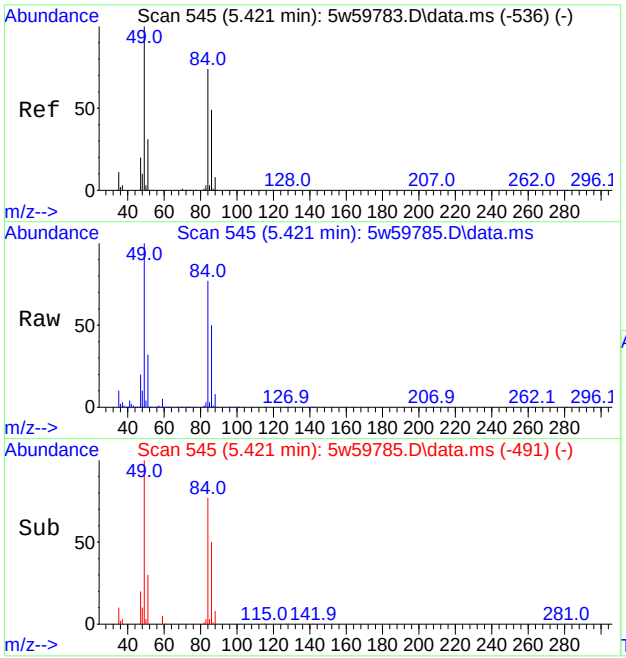


#30
ACRYLONITRILE
Concen: 36.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 1271597

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.4	32.3	60.1

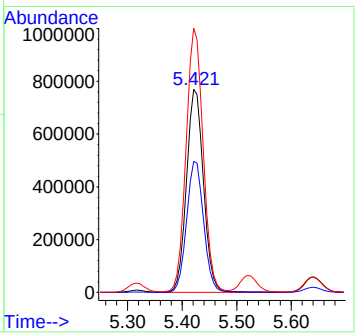


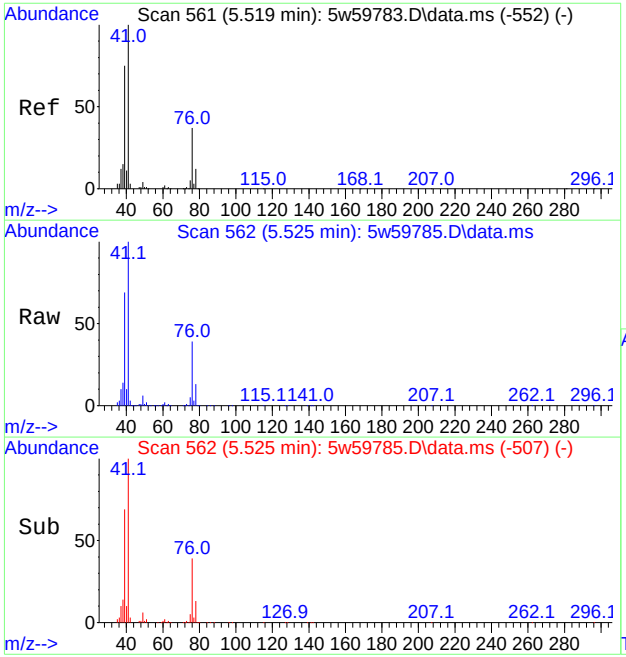


#31
METHYLENE CHLORIDE
Concen: 34.35 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 1660696

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	130.9	105.3	165.3

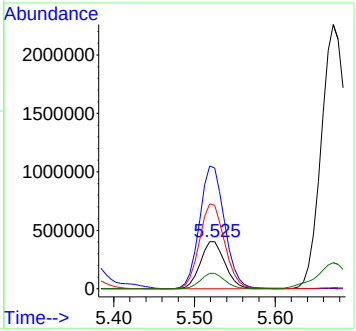


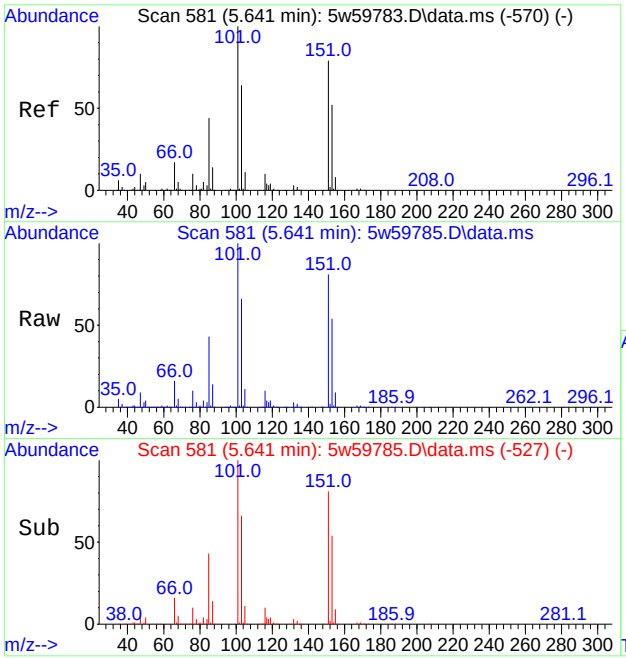


#32
3-CHLOROPROPENE
Concen: 38.85 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 861126

Ion	Ratio	Lower	Upper
76	100		
41	263.0	240.8	300.8
39	183.7	173.6	233.6
78	32.6	2.8	62.8

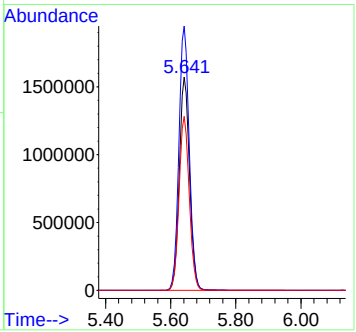


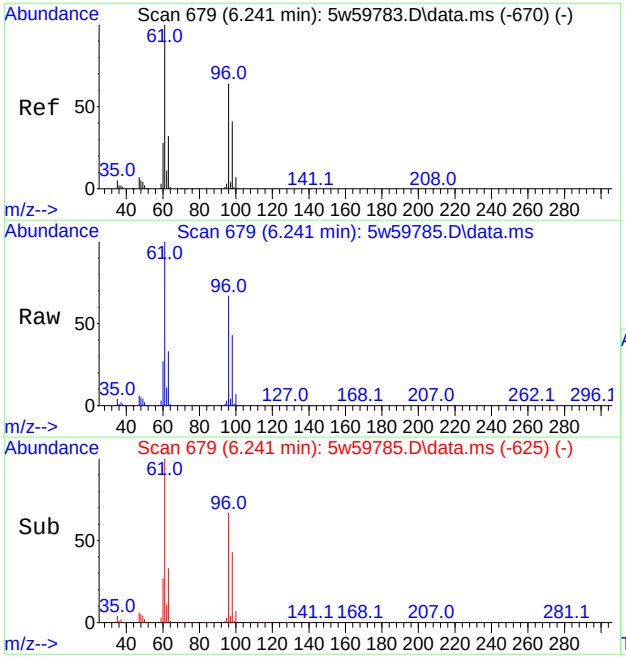


#33
FREON 113
Concen: 36.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:151 Resp: 3469148

Ion	Ratio	Lower	Upper
151	100		
101	125.0	97.5	157.5
103	81.5	52.5	112.5

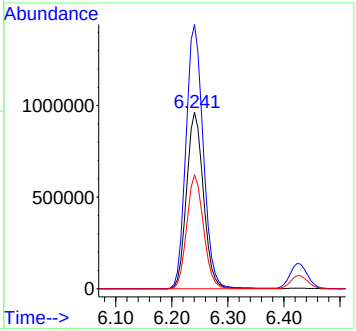


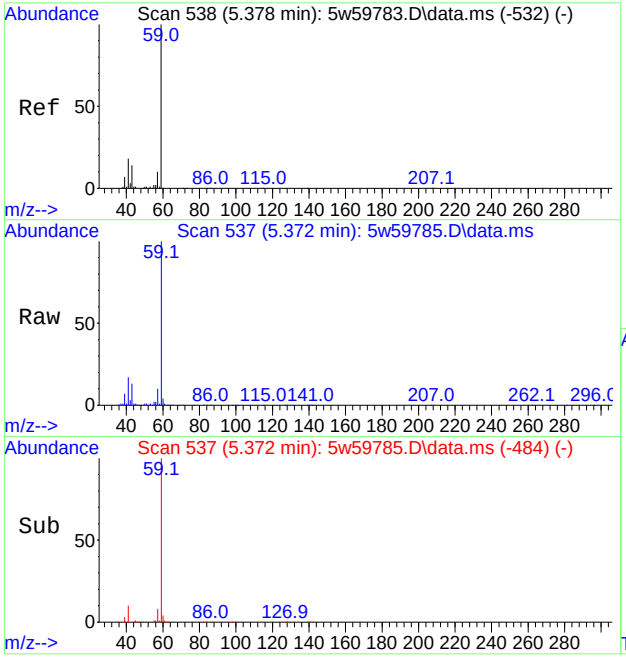


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 36.73 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2022318

Ion	Ratio	Lower	Upper
96	100		
61	152.5	126.4	186.4
98	64.2	34.1	94.1

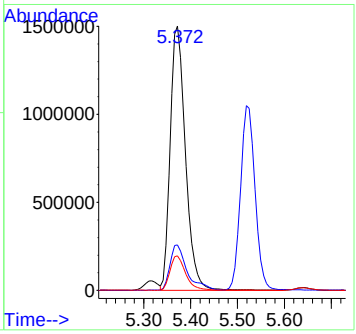


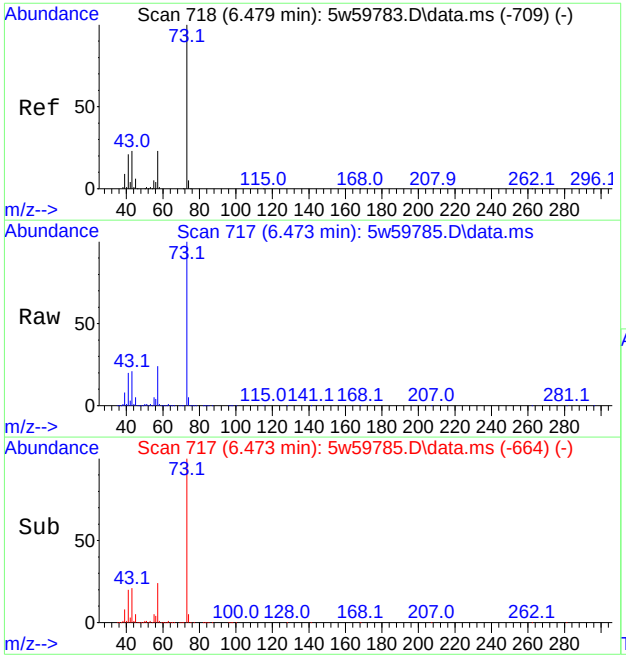


#35
TERTIARY BUTYL ALCOHOL
Concen: 29.74 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 3394797

Ion	Ratio	Lower	Upper
59	100		
41	19.2	0.0	49.3
43	13.3	0.0	44.1

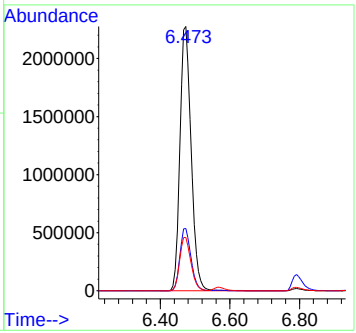


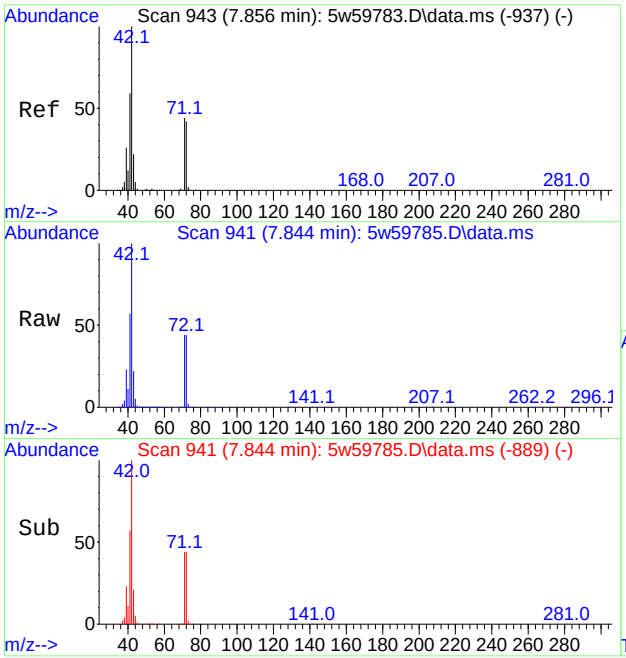


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.67 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 73 Resp: 5102873

Ion	Ratio	Lower	Upper
73	100		
57	23.4	0.0	53.1
41	20.3	0.0	50.6

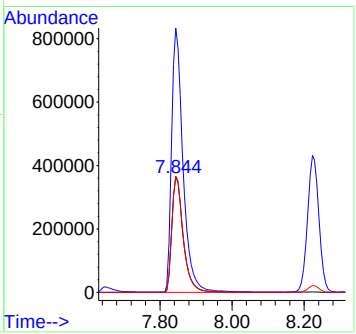


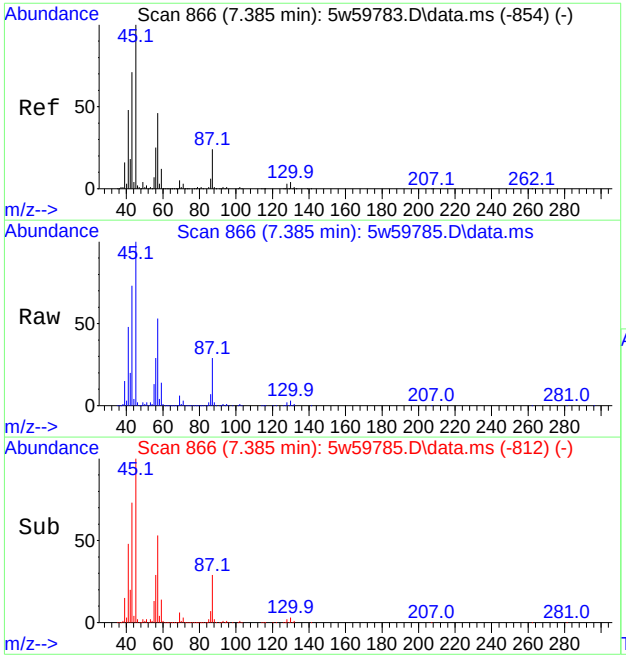


#37
TETRAHYDROFURAN
Concen: 44.15 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 801341

Ion	Ratio	Lower	Upper
72	100		
42	228.6	202.4	262.4
71	101.0	71.1	131.1

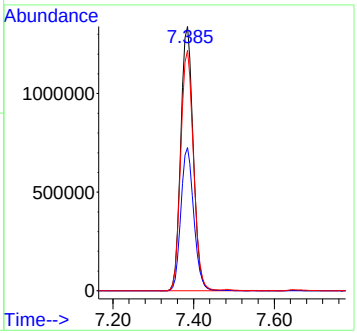


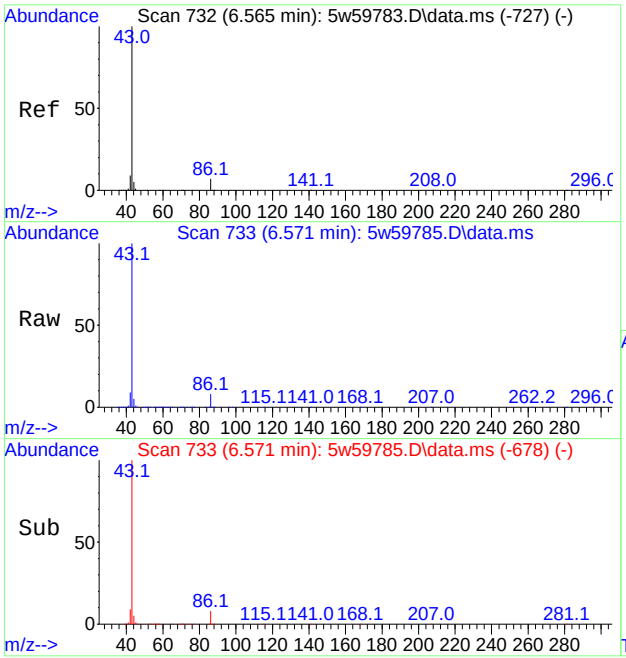


#38
HEXANE
Concen: 37.98 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 2879156

Ion	Ratio	Lower	Upper
57	100		
56	56.3	25.9	85.9
41	93.3	74.7	134.7

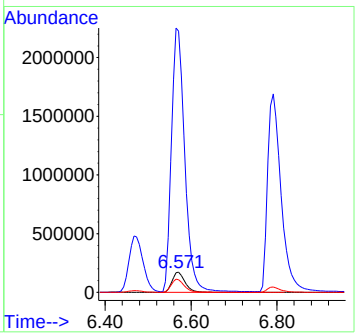


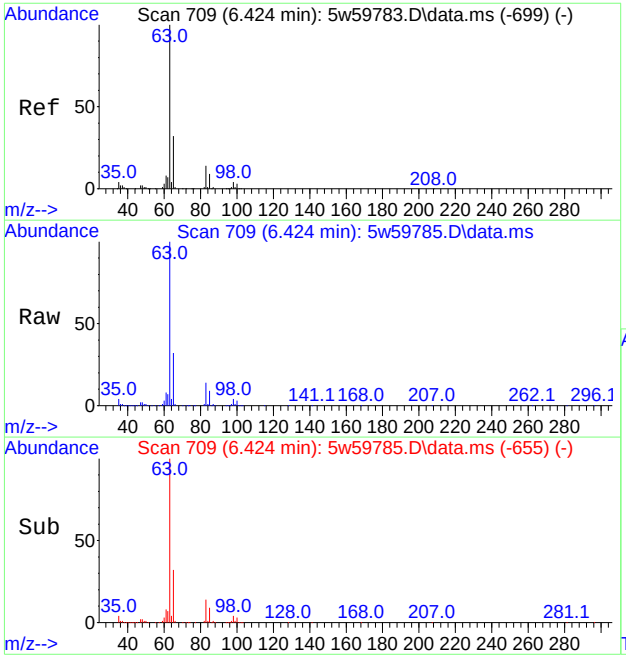


#39
VINYL ACETATE
Concen: 40.72 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 86 Resp: 363965

Ion	Ratio	Lower	Upper
86	100		
43	1327.9	1379.7	1439.7#
44	64.4	36.9	96.9

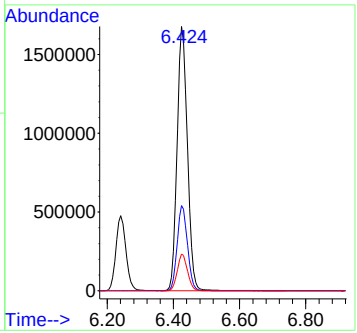


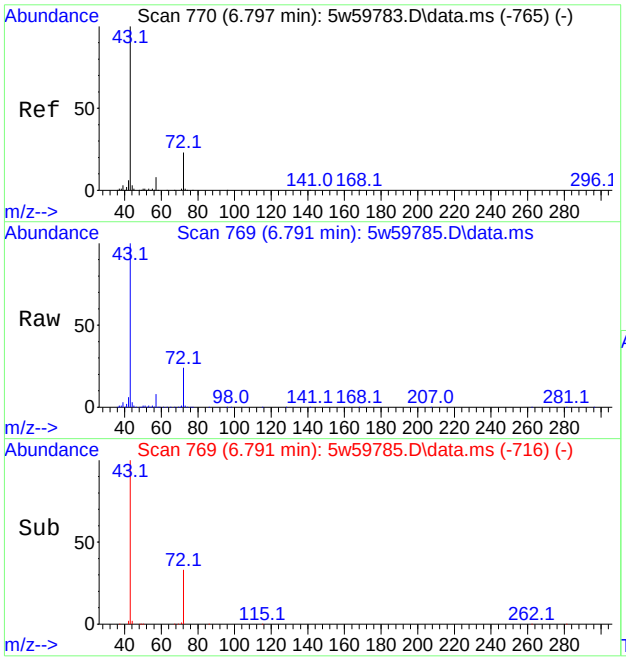


#40
1,1-DICHLOROETHANE
Concen: 36.44 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 3644940

Ion	Ratio	Lower	Upper
63	100		
65	32.2	1.7	61.7
83	13.7	0.0	43.5

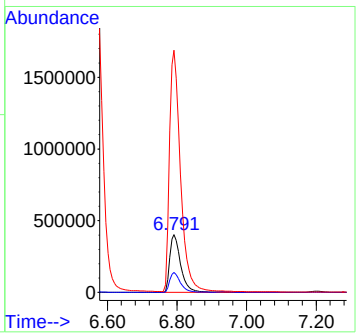


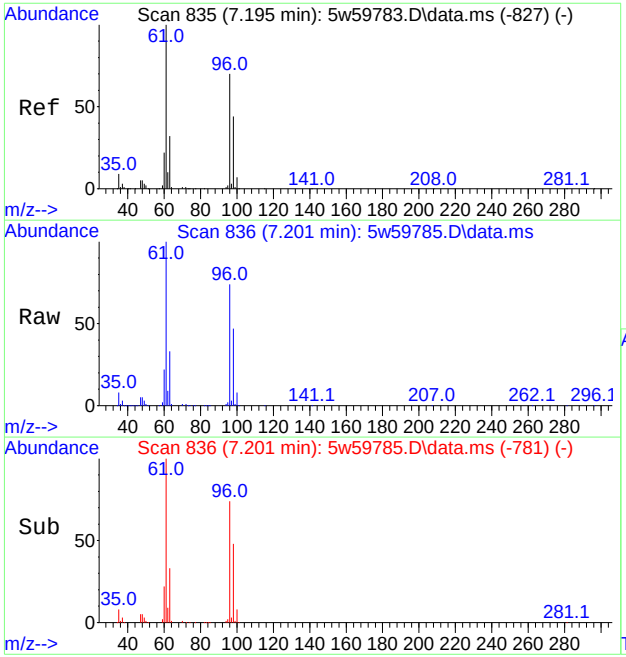


#41
METHYL ETHYL KETONE
Concen: 46.66 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 879599

Ion	Ratio	Lower	Upper
72	100		
57	34.6	4.8	64.8
43	418.8	415.9	475.9

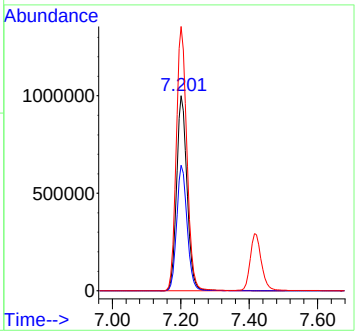


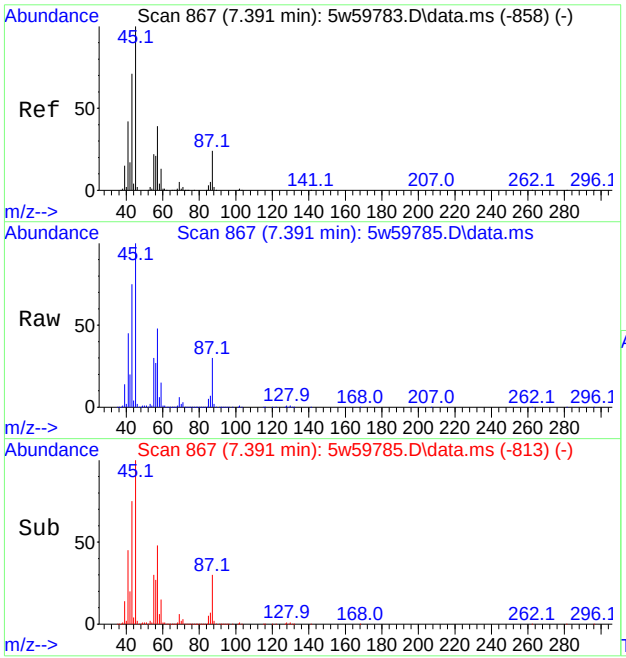


#42
cis-1,2-DICHLOROETHYLENE
Concen: 37.52 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2133694

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	137.7	111.5	171.5

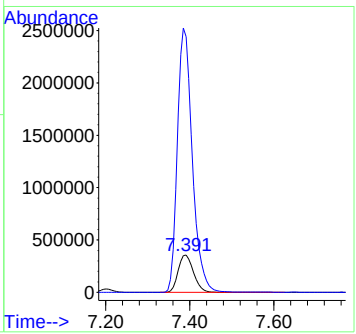


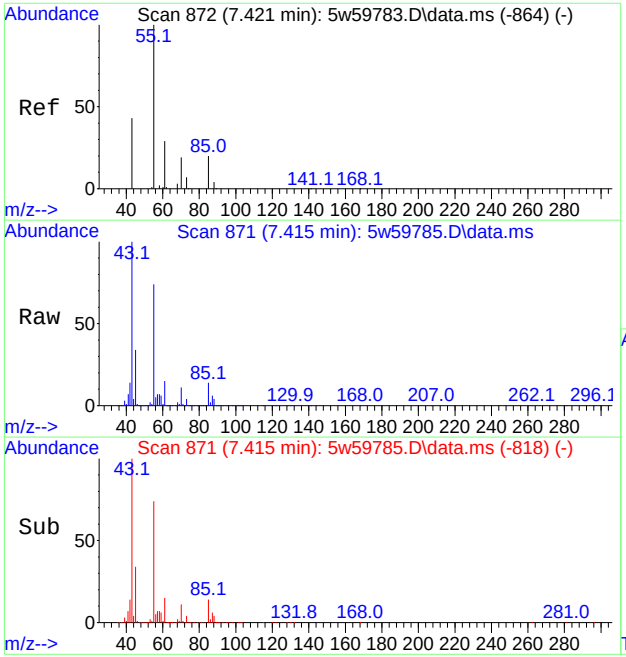


#43
DIISOPROPYL ETHER
Concen: 43.95 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 905463

Ion	Ratio	Lower	Upper
59	100		
45	688.0	720.9	780.9#

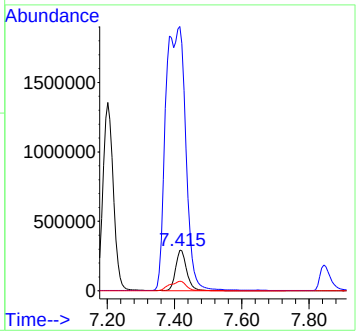


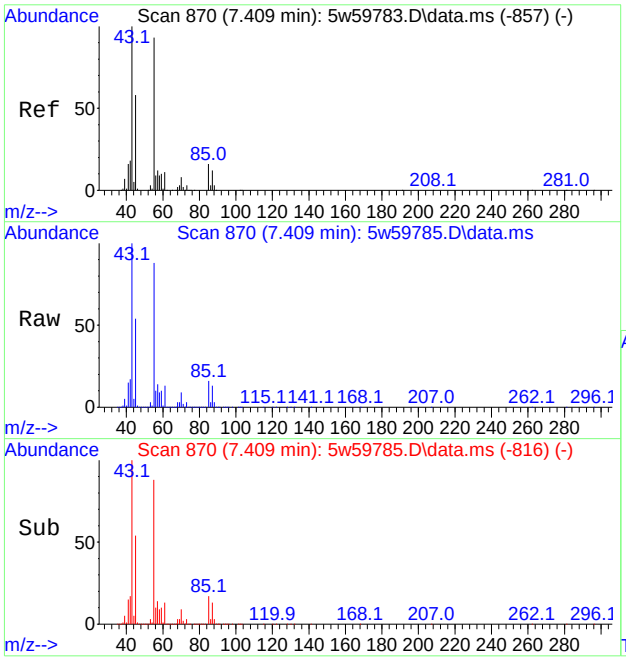


#44
ETHYL ACETATE
Concen: 43.14 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 61 Resp: 671399

Ion	Ratio	Lower	Upper
61	100		
43	592.5	560.5	620.5
88	35.9	4.5	64.5

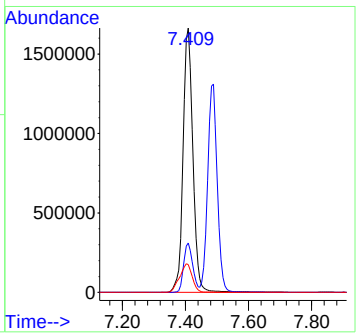


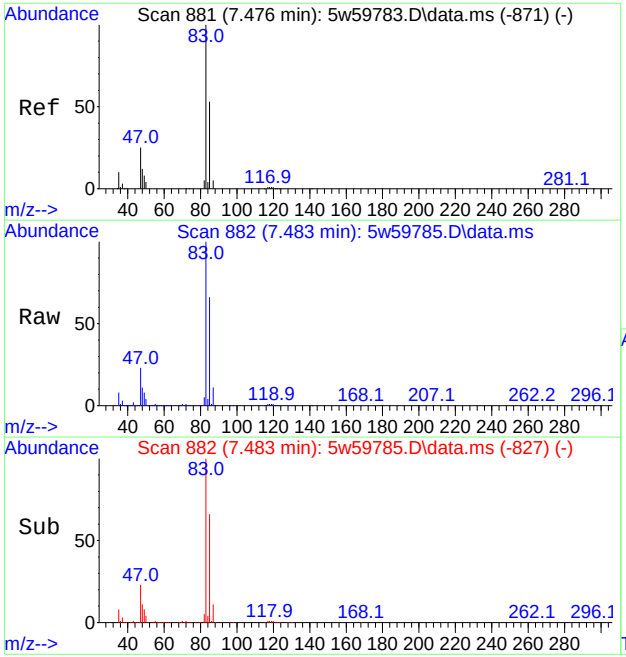


#45
METHYL ACRYLATE
Concen: 40.28 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 3595052

Ion	Ratio	Lower	Upper
55	100		
85	17.5	10.9	20.3
58	14.0	9.4	17.6

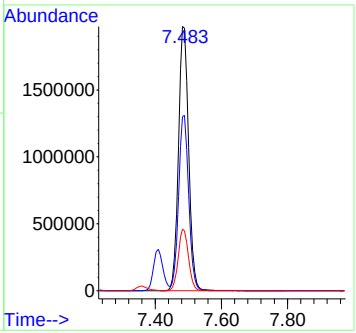


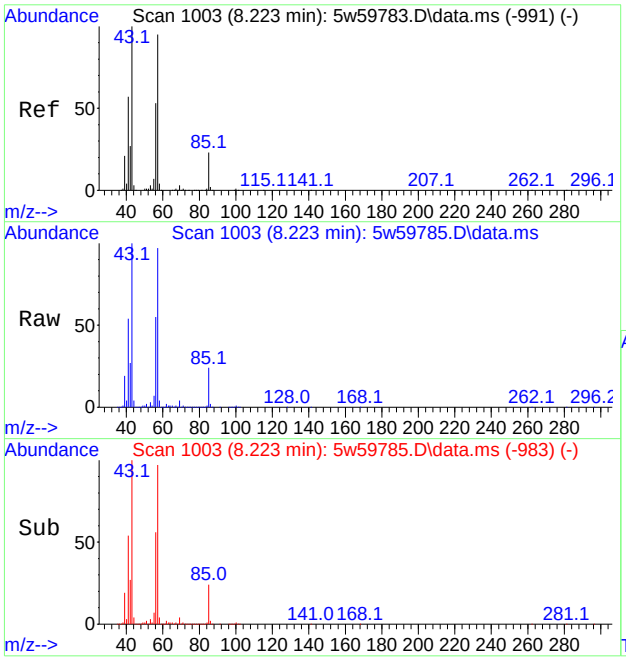


#46
CHLOROFORM
Concen: 36.42 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4216969

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	23.6	0.0	55.2

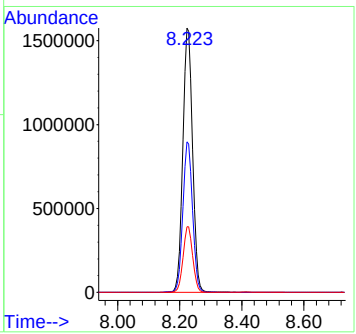


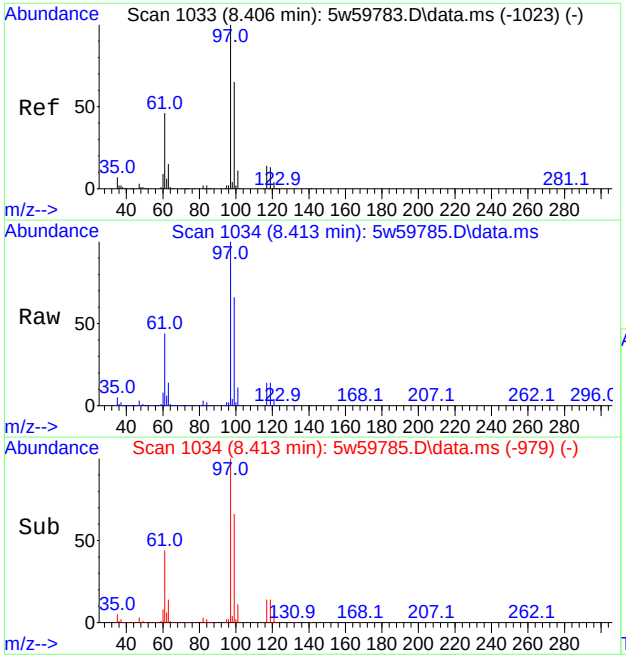


#47
2,4-DIMETHYLPENTANE
Concen: 38.76 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 3428957

Ion	Ratio	Lower	Upper
57	100		
56	57.1	26.5	86.5
85	24.6	0.0	53.8

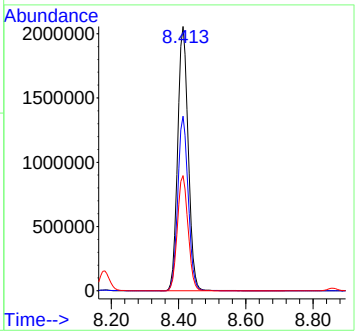


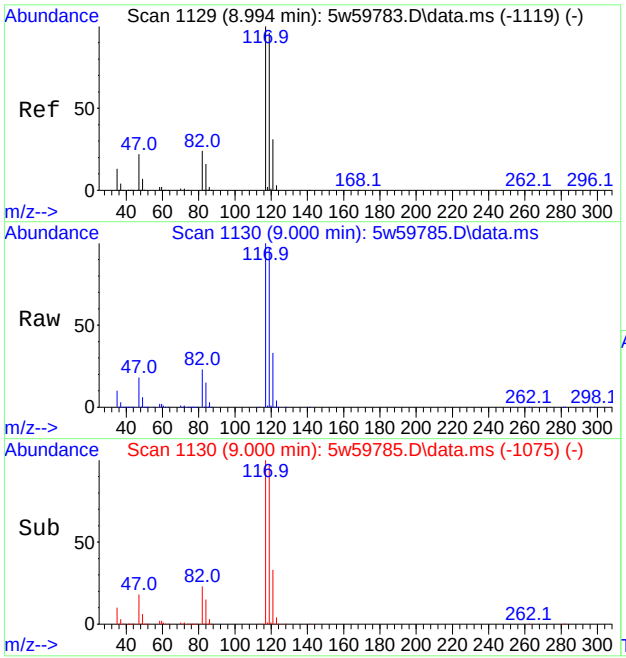


#48
1,1,1-TRICHLOROETHANE
Concen: 35.48 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 97 Resp: 4473116

Ion	Ratio	Lower	Upper
97	100		
99	65.5	34.8	94.8
61	44.3	15.8	75.8

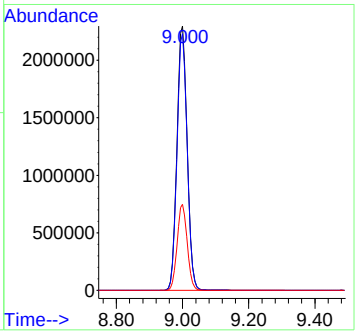


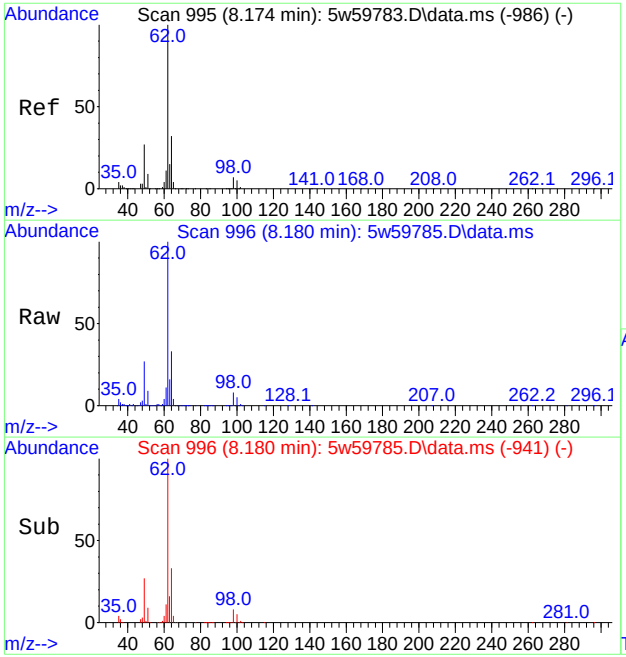


#49
CARBON TETRACHLORIDE
Concen: 35.62 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4942966

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.9	126.9
121	32.2	1.3	61.3

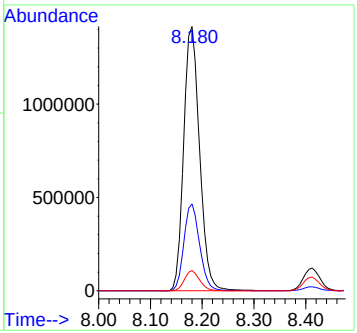


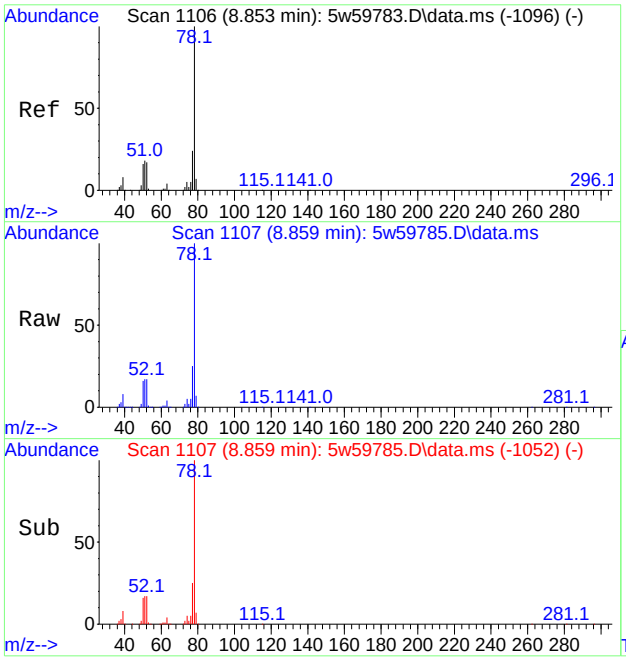


#50
1,2-DICHLOROETHANE
Concen: 37.08 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 3028960

Ion	Ratio	Lower	Upper
62	100		
64	32.6	2.3	62.3
98	7.4	0.0	36.9

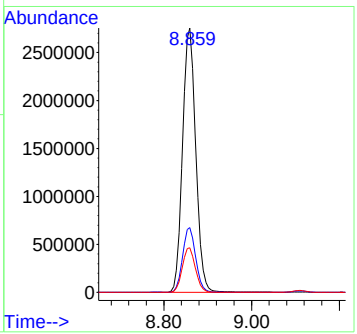


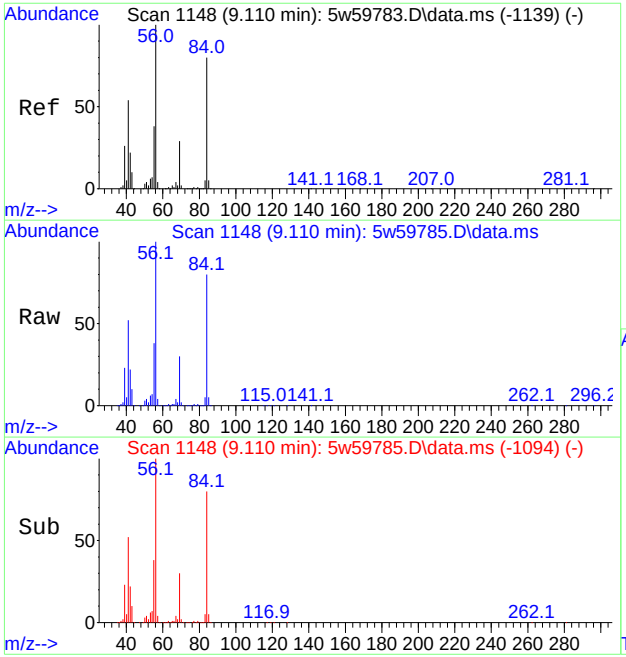


#52
BENZENE
Concen: 44.75 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 78 Resp: 5773385

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	53.8
52	16.9	0.0	46.9

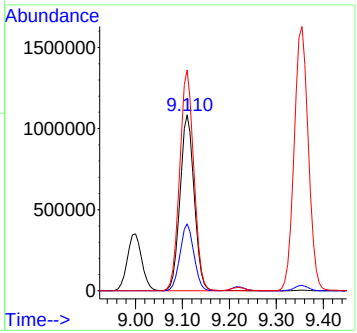


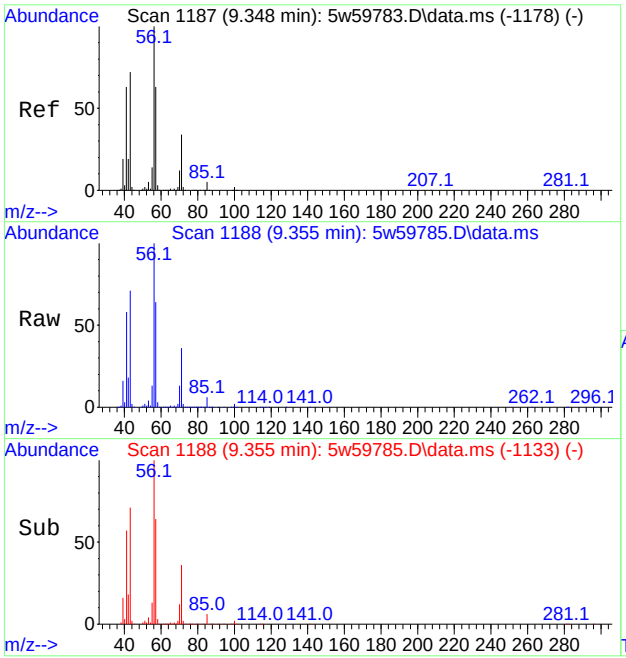


#53
CYCLOHEXANE
Concen: 44.64 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 2282258

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	125.1	98.2	158.2

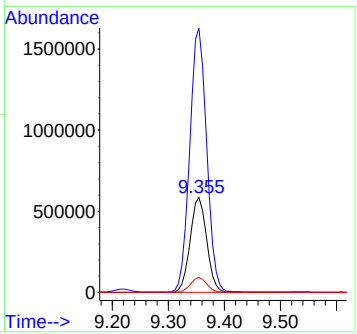


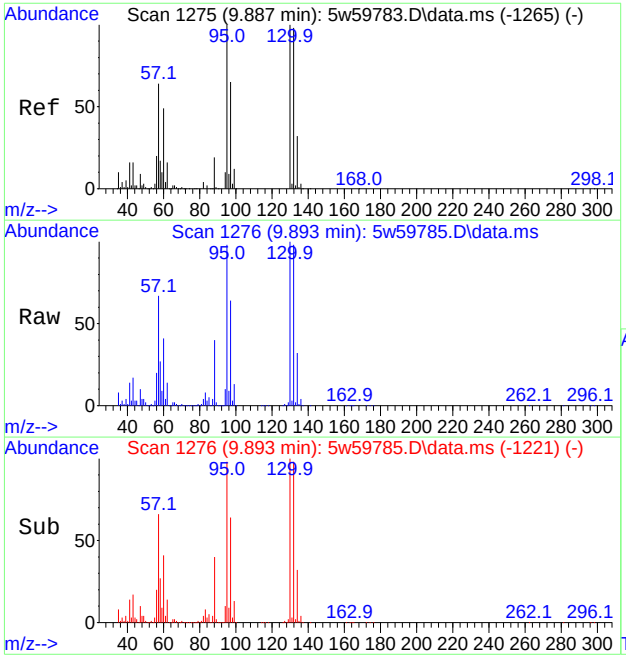


#54
2,3-DIMETHYLPENTANE
Concen: 46.80 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 71 Resp: 1205121

Ion	Ratio	Lower	Upper
71	100		
56	284.5	264.6	324.6
85	15.5	0.0	45.3

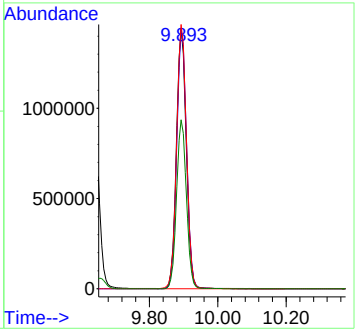


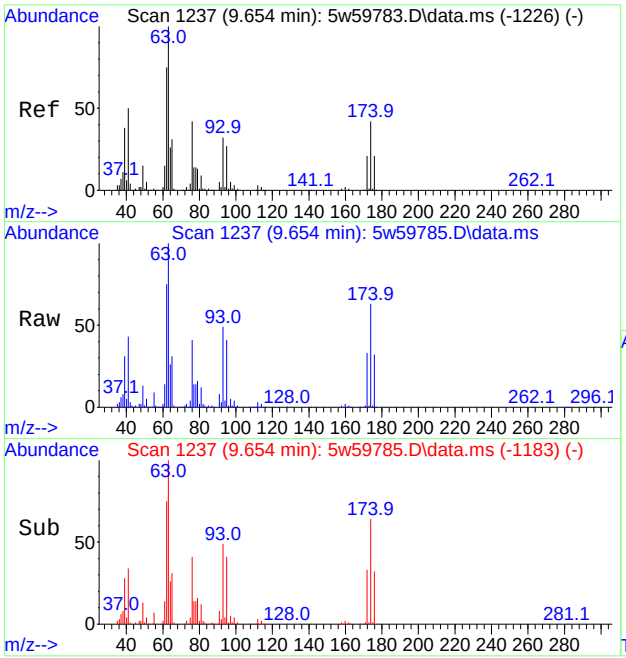


#55
TRICHLOROETHYLENE
Concen: 41.87 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 95 Resp: 2886125

Ion	Ratio	Lower	Upper
95	100		
132	99.9	69.0	129.0
130	102.3	70.6	130.6
97	65.1	34.6	94.6

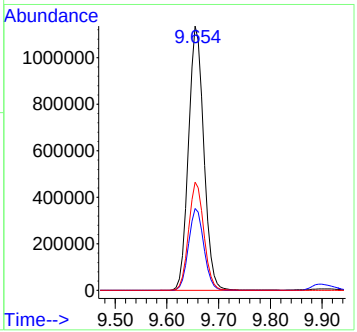


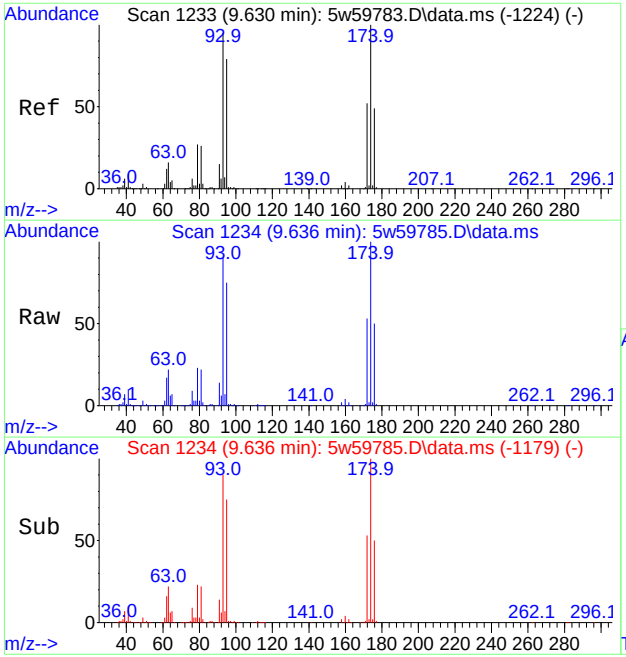


#56
1,2-DICHLOROPROPANE
Concen: 42.47 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 2329113

Ion	Ratio	Lower	Upper
63	100		
65	31.1	0.5	60.5
76	40.9	11.5	71.5

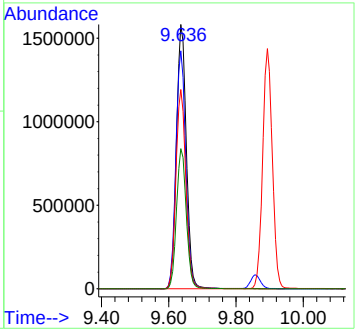


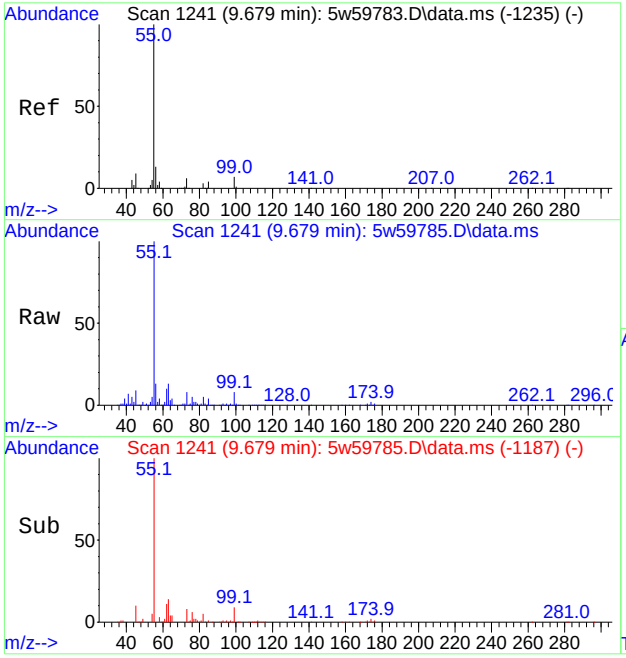


#57
DIBROMOMETHANE
Concen: 42.48 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:174 Resp: 3208165

Ion	Ratio	Lower	Upper
174	100		
93	90.6	65.0	120.6
95	76.0	54.5	101.1
172	52.7	36.3	67.5

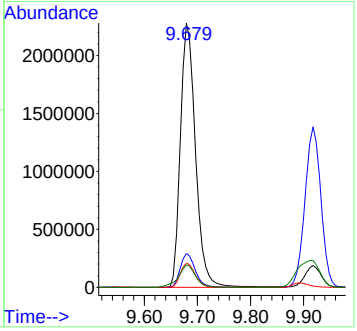


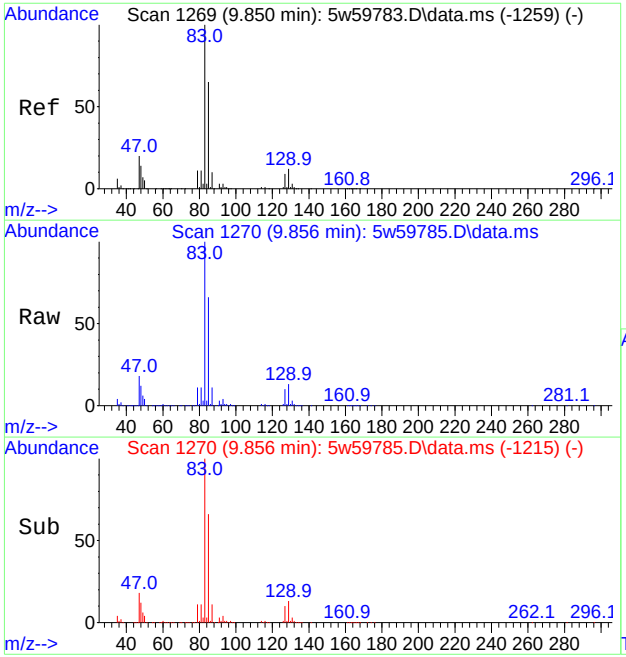


#58
ETHYL ACRYLATE
Concen: 46.25 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 4517787

Ion	Ratio	Lower	Upper
55	100		
56	12.6	8.6	16.0
45	9.1	6.6	12.2
99	9.6	6.4	12.0

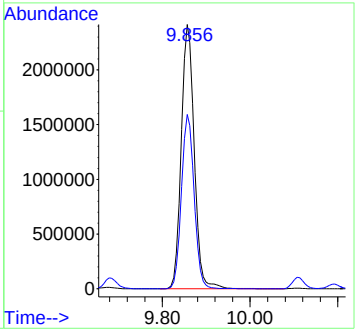


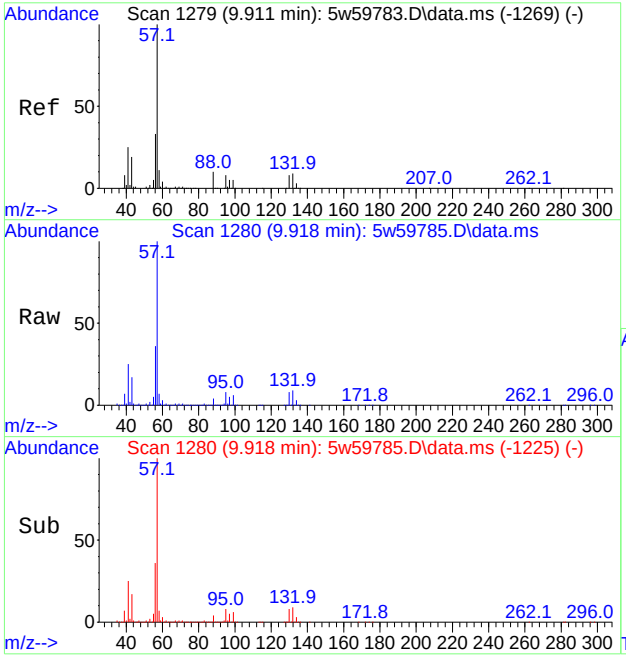


#59
BROMODICHLOROMETHANE
Concen: 40.63 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4951368

Ion	Ratio	Lower	Upper
83	100		
85	64.6	33.4	93.4

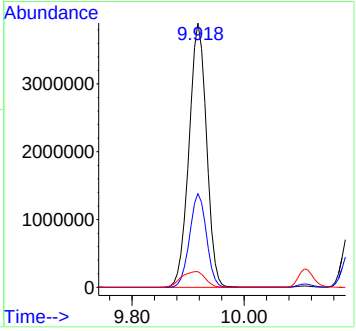


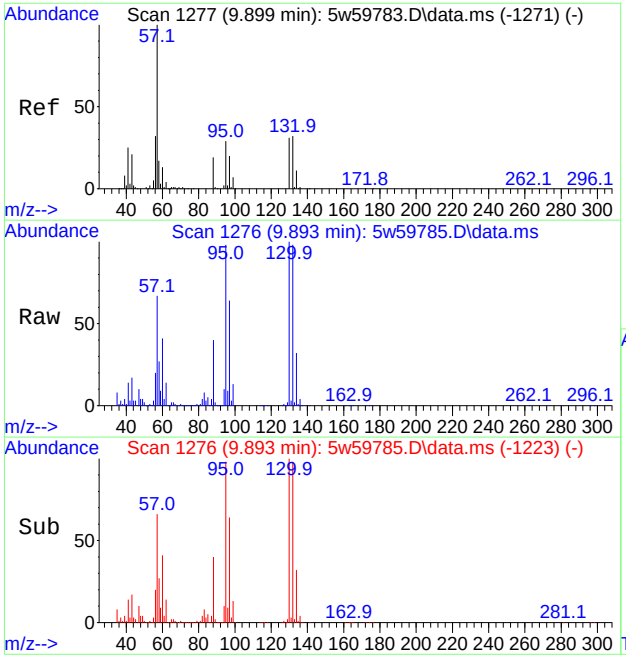


#60
2,2,4-TRIMETHYLPENTANE
Concen: 38.93 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 8459039

Ion	Ratio	Lower	Upper
57	100		
56	34.0	2.5	62.5
99	8.2	0.0	37.3

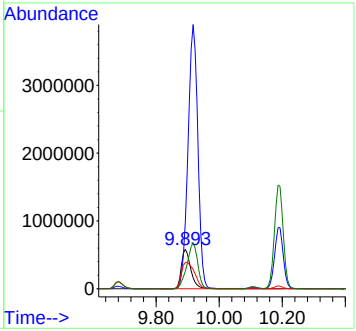


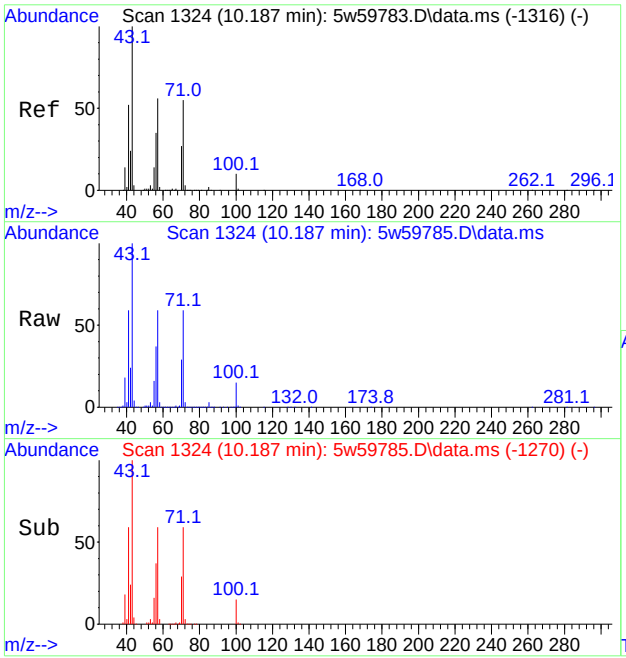


#61
1,4-DIOXANE
Concen: 45.35 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 88 Resp: 1215269

Ion	Ratio	Lower	Upper
88	100		
57	167.4	494.2	554.2#
58	67.1	58.9	118.9
43	43.9	78.3	138.3#

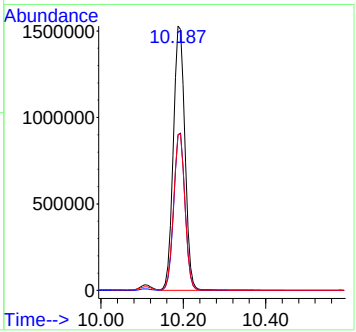


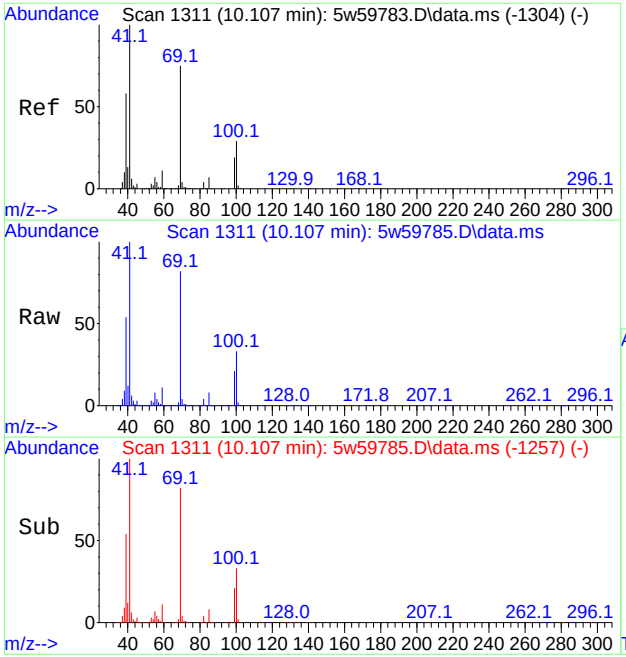


#62
HEPTANE
Concen: 37.77 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 2988992

Ion	Ratio	Lower	Upper
43	100		
71	57.8	24.5	84.5
57	58.3	26.2	86.2

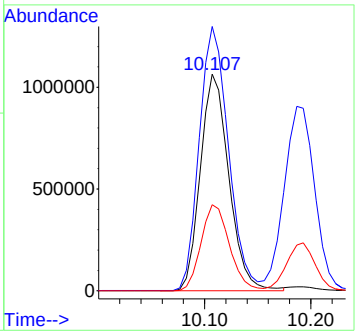


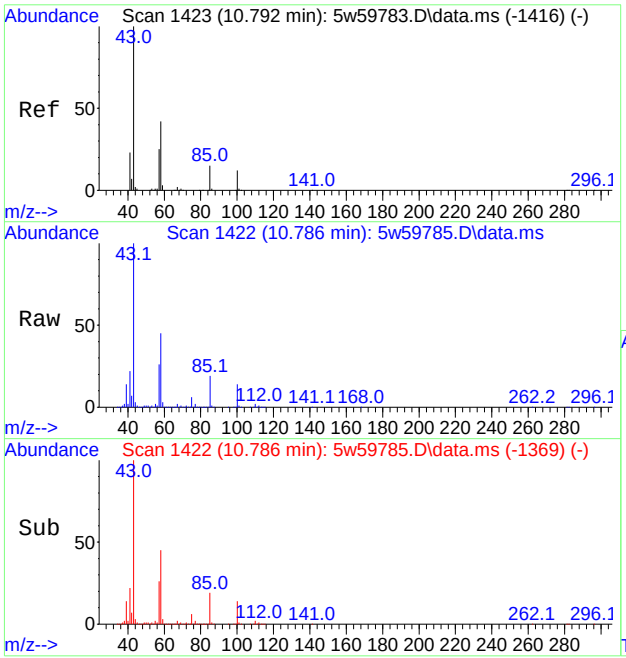


#63
METHYL METHACRYLATE
Concen: 49.92 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 1989625

Ion	Ratio	Lower	Upper
69	100		
41	124.2	95.3	155.3
100	39.6	6.3	66.3

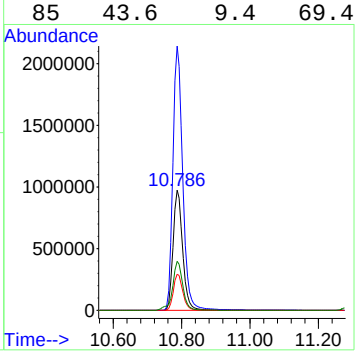


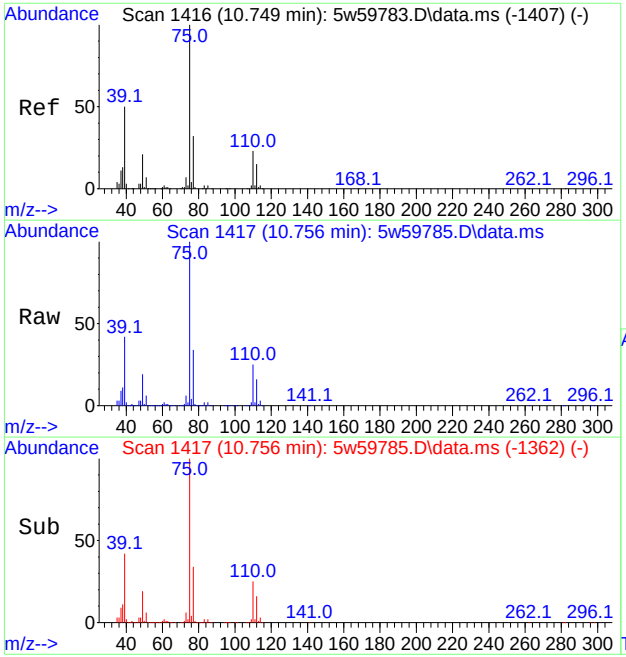


#64
METHYL ISOBUTYL KETONE
Concen: 47.23 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 1921879

Ion	Ratio	Lower	Upper
58	100		
43	225.1	209.2	269.2
100	30.1	0.0	58.8
85	43.6	9.4	69.4

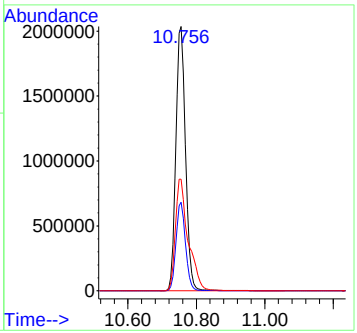


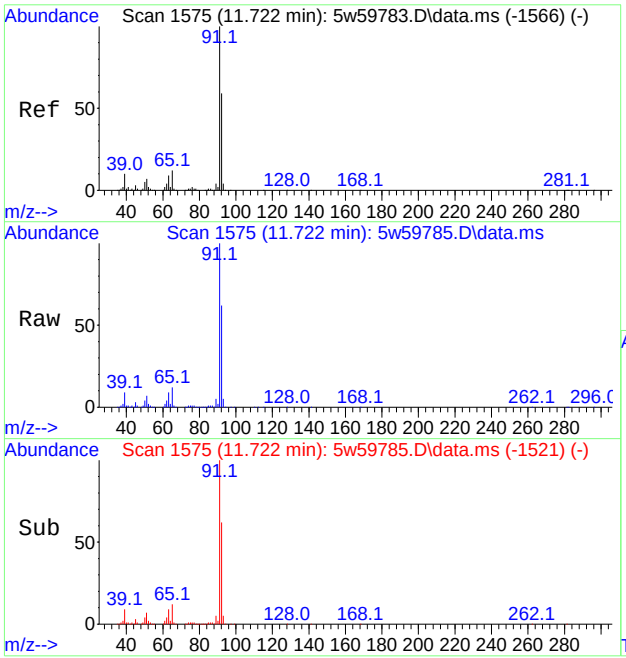


#65
cis-1,3-DICHLOROPROPENE
Concen: 47.39 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4023307

Ion	Ratio	Lower	Upper
75	100		
77	33.0	2.2	62.2
39	56.0	34.3	94.3

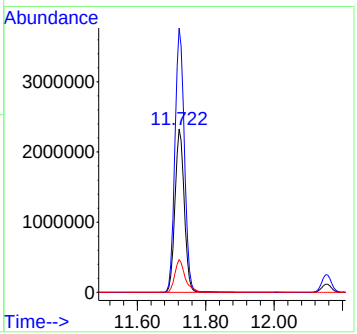


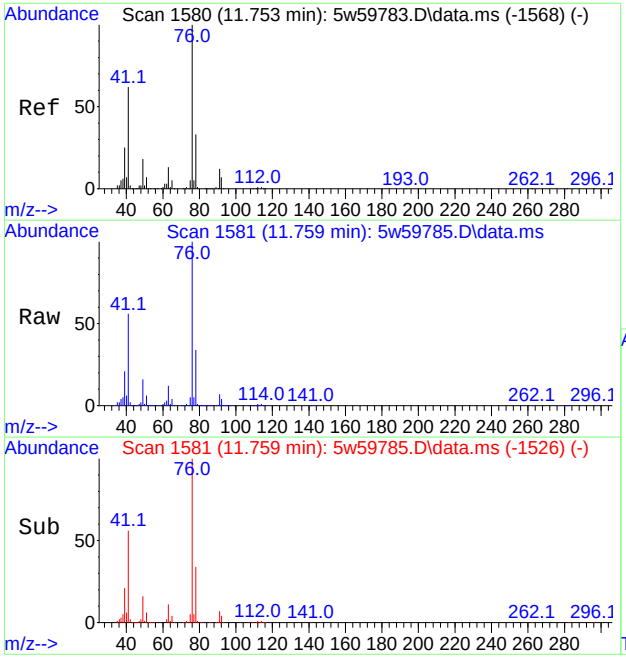


#66
TOLUENE
Concen: 47.83 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 92 Resp: 4414753

Ion	Ratio	Lower	Upper
92	100		
91	164.9	140.1	200.1
65	22.5	0.0	53.1

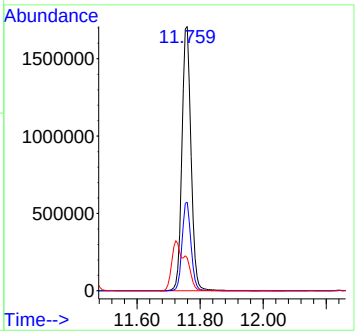


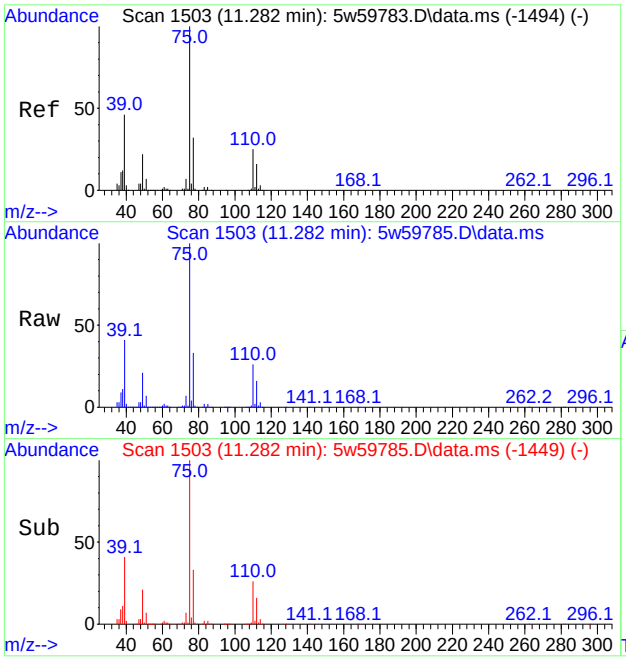


#67
1,3-DICHLOROPROPANE
Concen: 44.02 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 3397591

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	11.1	7.1	13.1

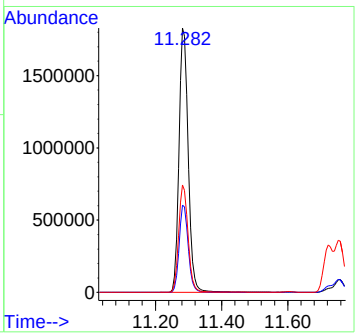


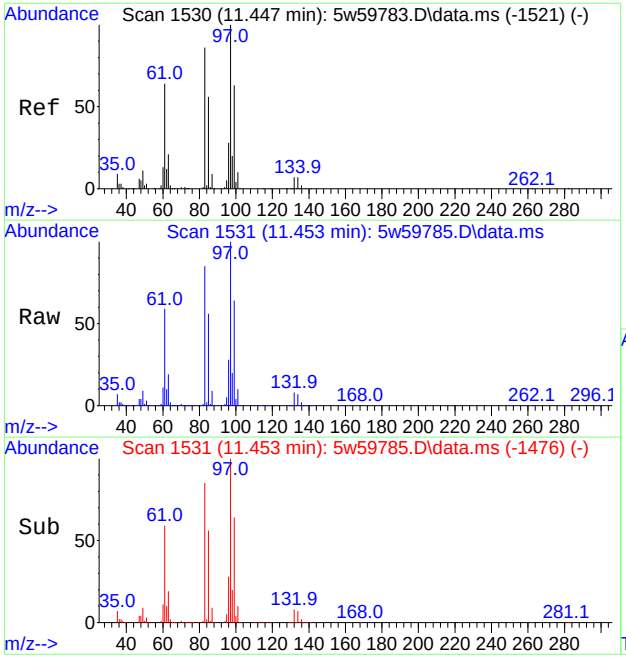


#68
trans-1,3-DICHLOROPROPENE
Concen: 45.59 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 3536223

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	41.6	16.1	76.1

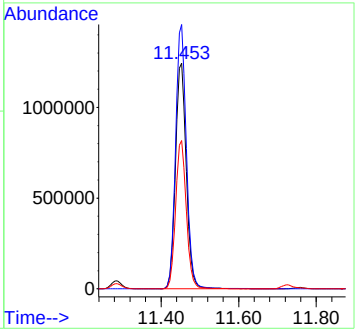


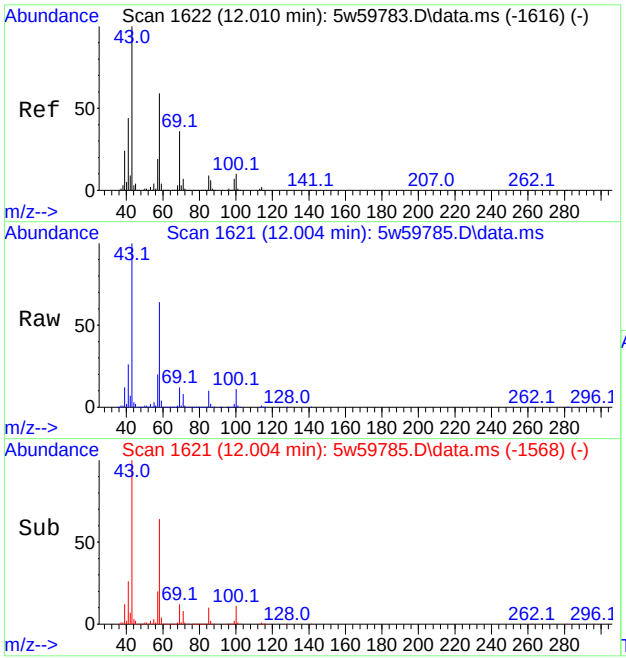


#69
1,1,2-TRICHLOROETHANE
Concen: 47.73 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 2422259

Ion	Ratio	Lower	Upper
83	100		
97	116.5	86.3	146.3
85	65.3	35.3	95.3

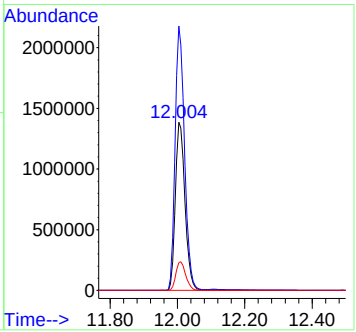


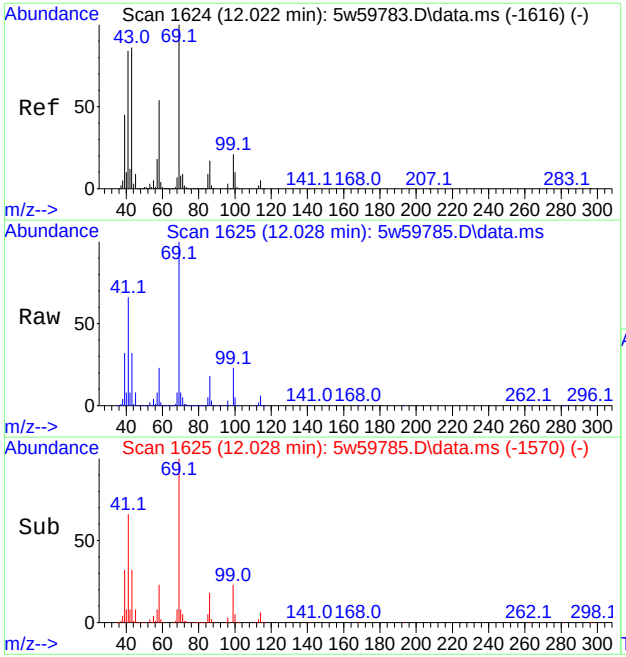


#71
2-HEXANONE
Concen: 43.59 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 2753205

Ion	Ratio	Lower	Upper
58	100		
43	154.2	137.2	197.2
100	17.6	0.0	46.9

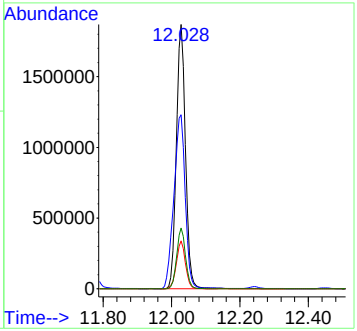


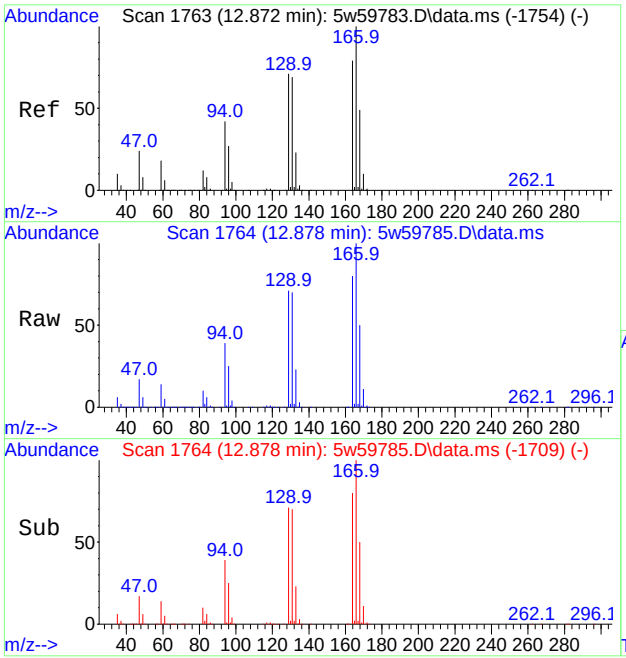


#72
ETHYL METHACRYLATE
Concen: 43.20 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 3484828

Ion	Ratio	Lower	Upper
69	100		
41	81.9	64.0	119.0
86	18.0	12.0	22.4
99	22.5	15.0	27.8

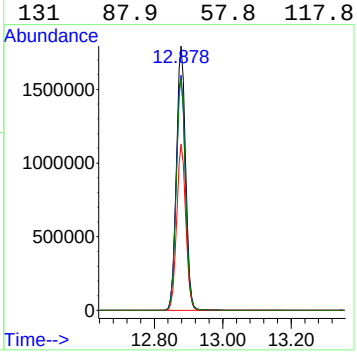


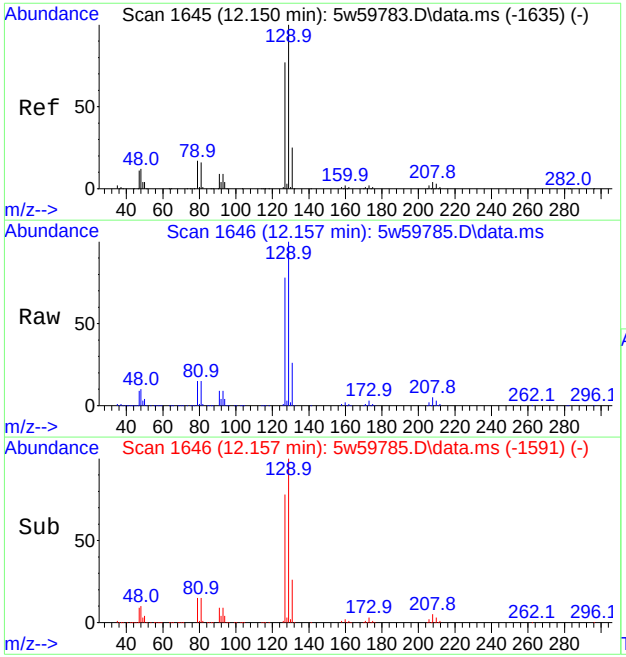


#73
TETRACHLOROETHYLENE
Concen: 35.84 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:164 Resp: 3370251

Ion	Ratio	Lower	Upper
164	100		
129	89.6	59.7	119.7
168	62.4	32.2	92.2
131	87.9	57.8	117.8

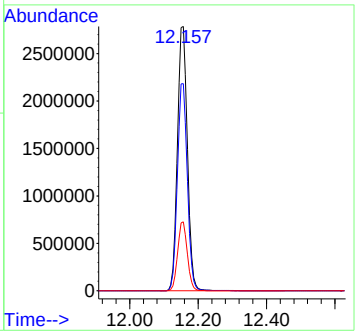


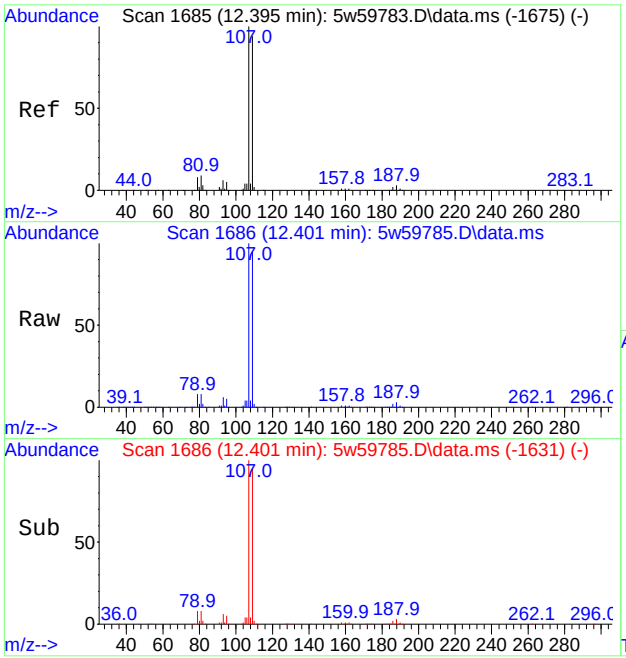


#74
DIBROMOCHLOROMETHANE
Concen: 35.57 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:129 Resp: 5622668

Ion	Ratio	Lower	Upper
129	100		
127	78.3	47.1	107.1
131	25.5	0.0	54.5

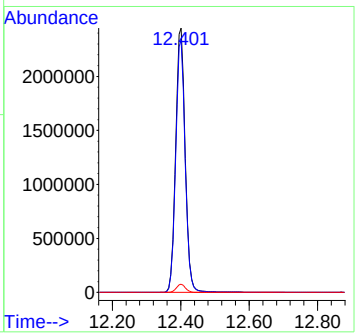


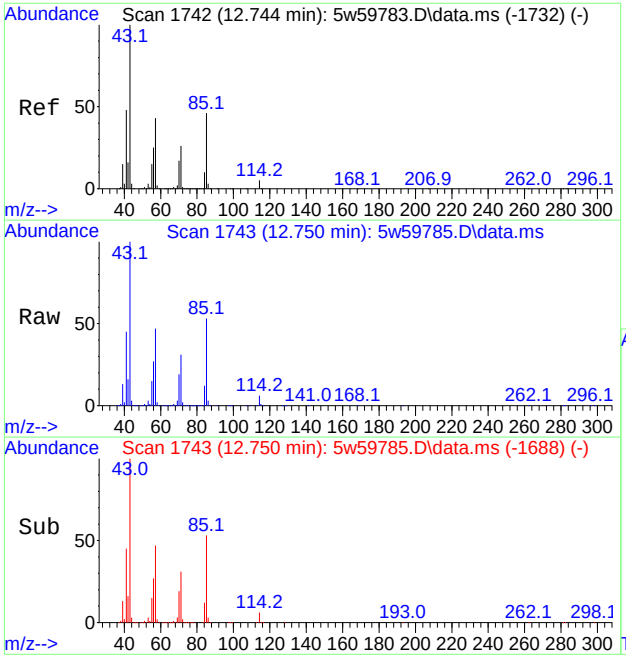


#75
1,2-DIBROMOETHANE
Concen: 40.93 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:107 Resp: 4750806

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

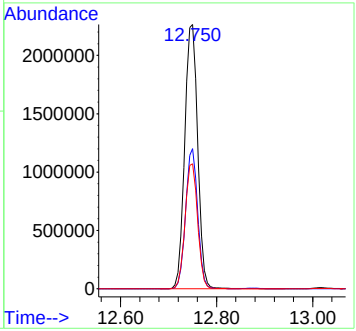


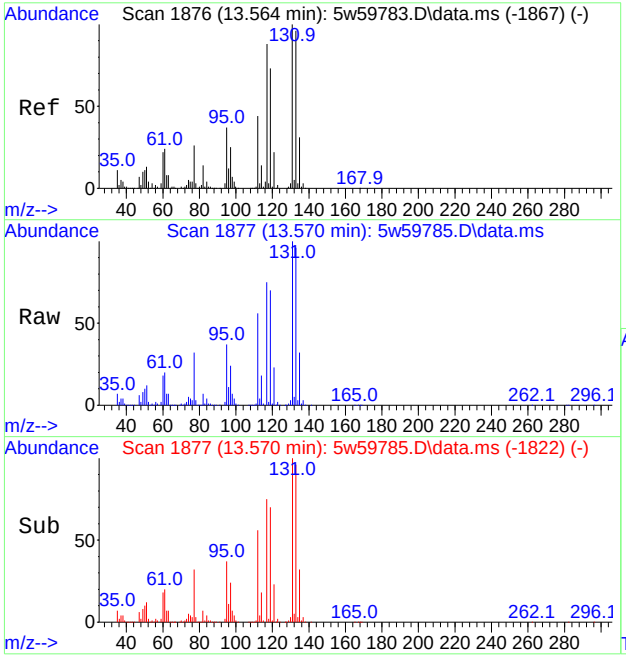


#76
OCTANE
Concen: 32.56 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4235557

Ion	Ratio	Lower	Upper
43	100		
85	49.4	14.6	74.6
57	46.0	13.7	73.7

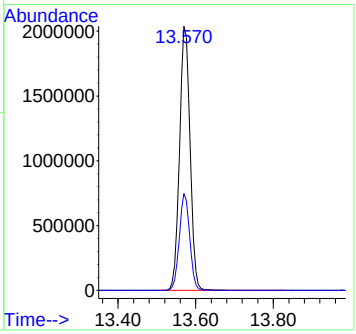


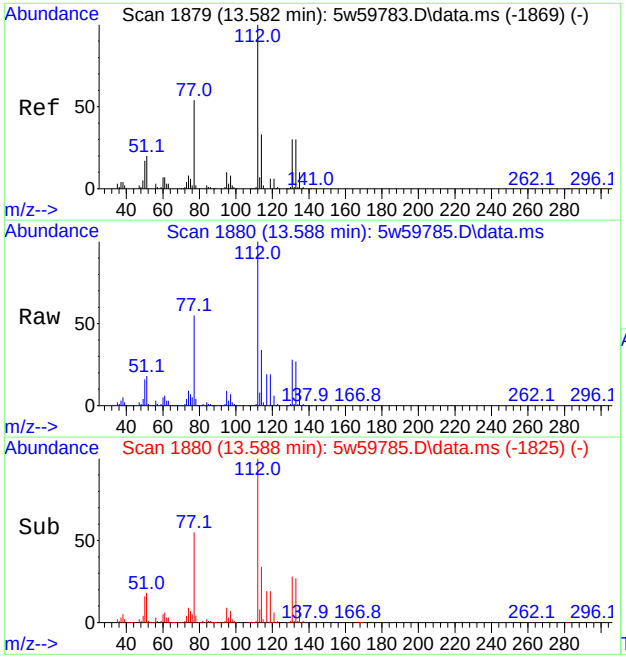


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 37.26 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:131 Resp: 3854037

Ion	Ratio	Lower	Upper
131	100		
95	36.3	6.5	66.5

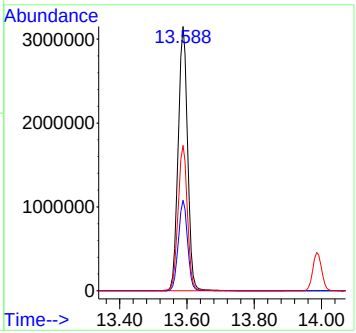


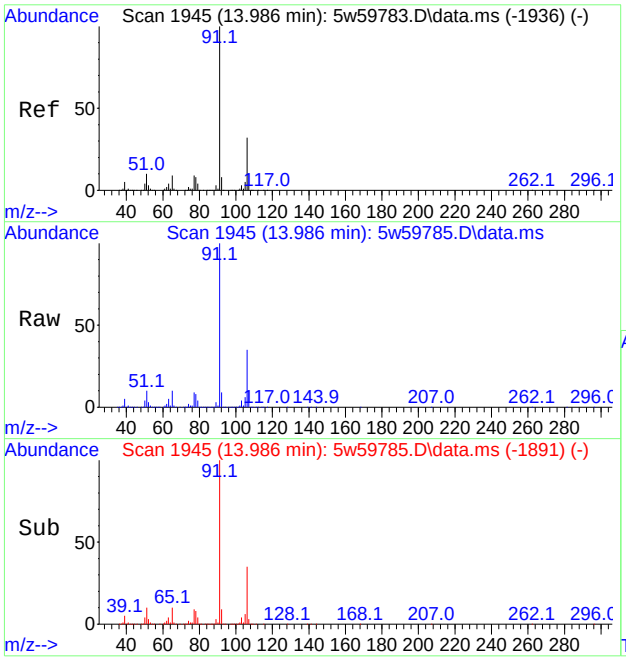


#78
CHLOROBENZENE
Concen: 35.87 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:112 Resp: 6101033

Ion	Ratio	Lower	Upper
112	100		
114	33.7	2.6	62.6
77	55.0	25.4	85.4

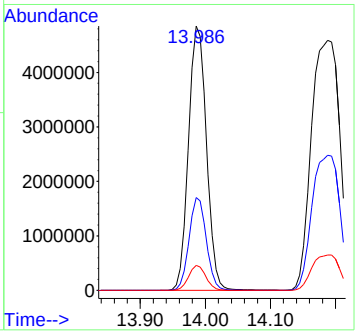


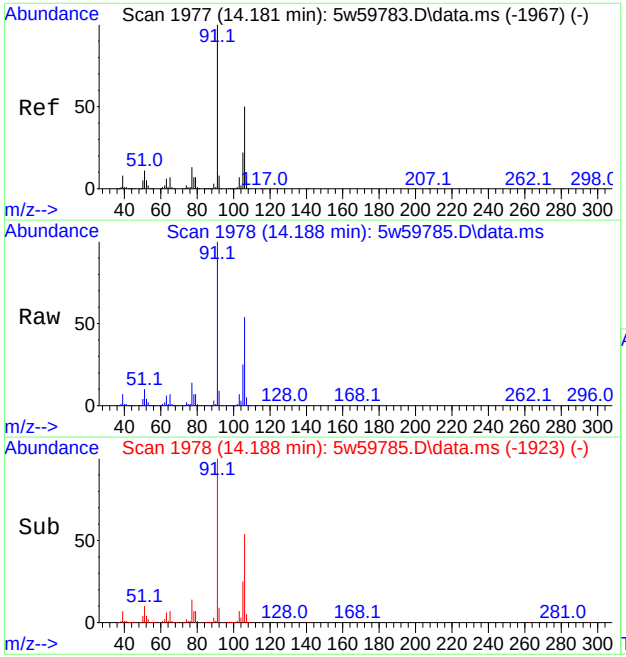


#79
ETHYLBENZENE
Concen: 38.31 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 9323124

Ion	Ratio	Lower	Upper
91	100		
106	33.7	1.3	61.3
77	9.0	0.0	38.6

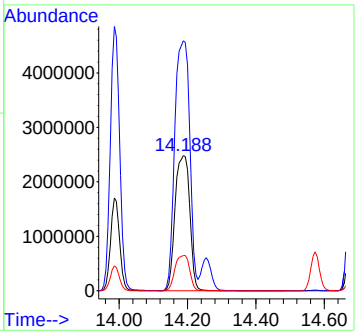


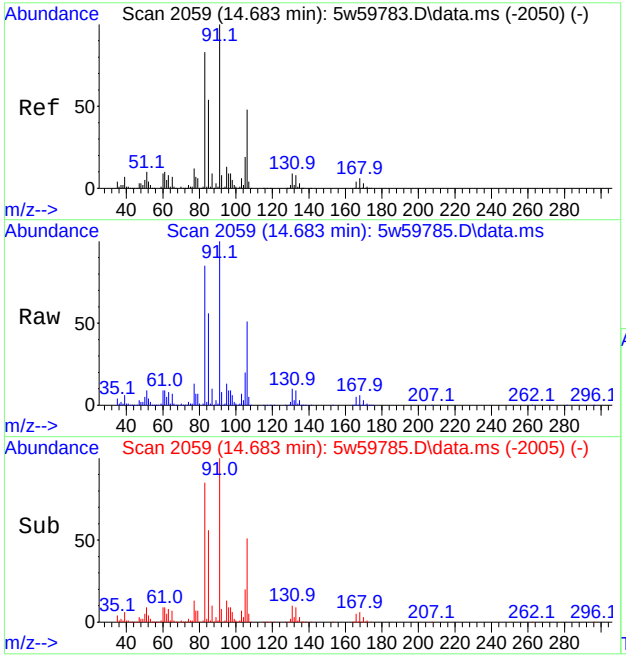


#80
m,p-XYLENE
Concen: 79.24 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 7385992

Ion	Ratio	Lower	Upper
106	100		
91	184.9	171.0	231.0
77	26.2	0.0	56.7

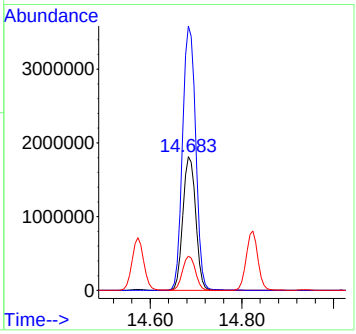


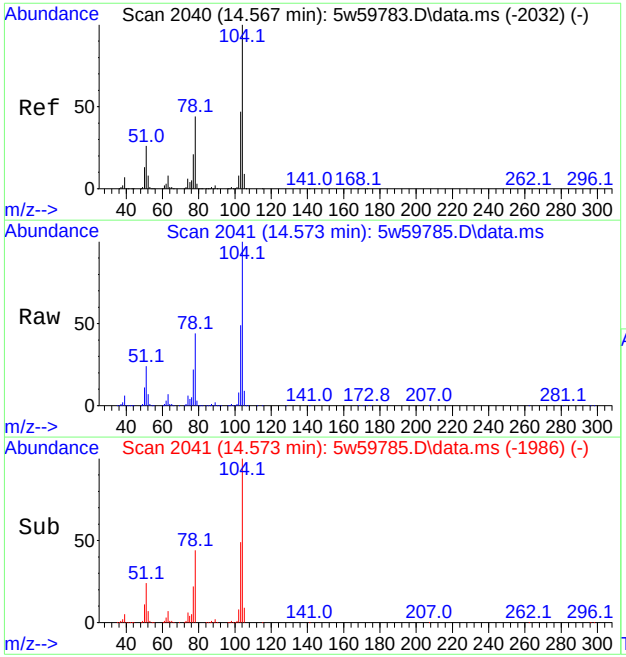


#81
o-XYLENE
Concen: 41.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 3531781

Ion	Ratio	Lower	Upper
106	100		
91	202.6	181.6	241.6
77	25.7	0.0	56.6

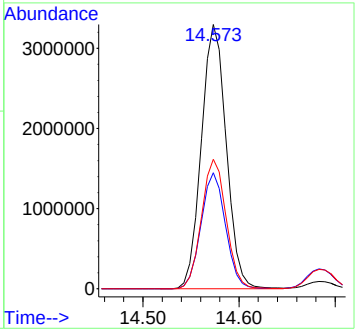


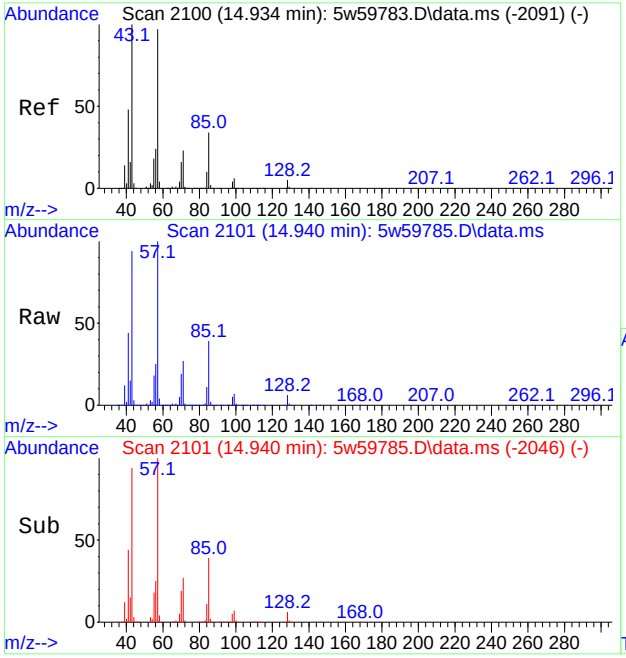


#82
STYRENE
Concen: 45.55 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:104 Resp: 5945197

Ion	Ratio	Lower	Upper
104	100		
78	43.2	13.3	73.3
103	48.5	17.2	77.2

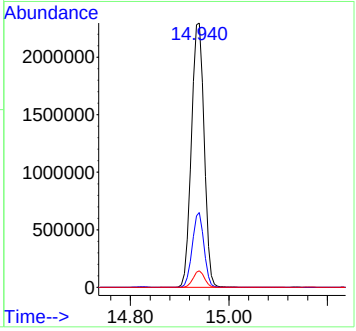


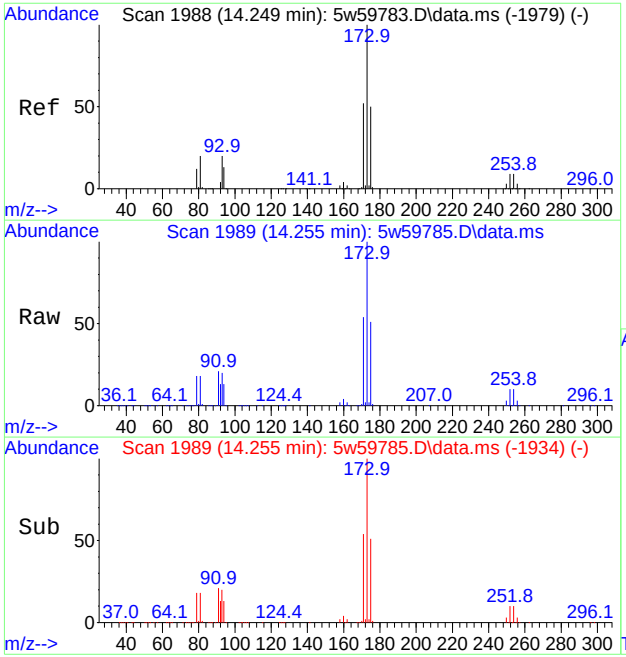


#83
NONANE
Concen: 31.95 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4120325

Ion	Ratio	Lower	Upper
43	100		
71	26.0	0.0	52.7
128	5.7	0.0	34.7

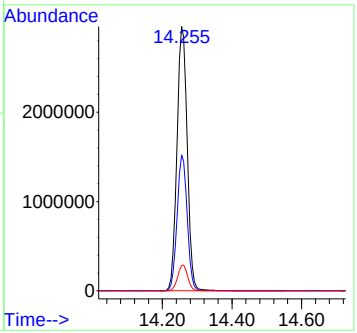


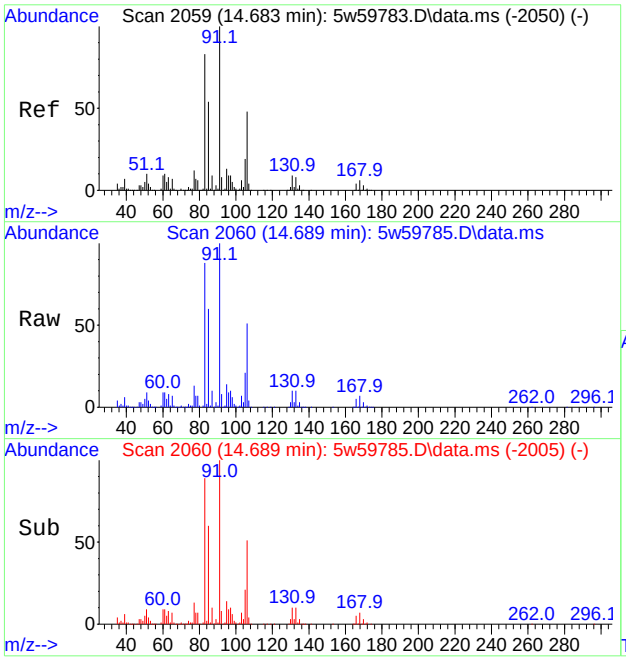


#84
BROMOFORM
Concen: 37.29 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:173 Resp: 6063084

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	9.5	0.0	39.0

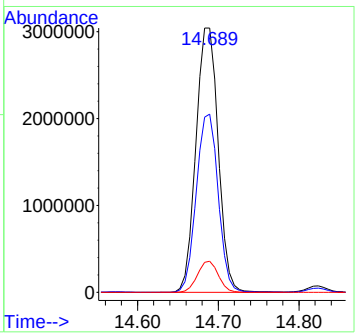


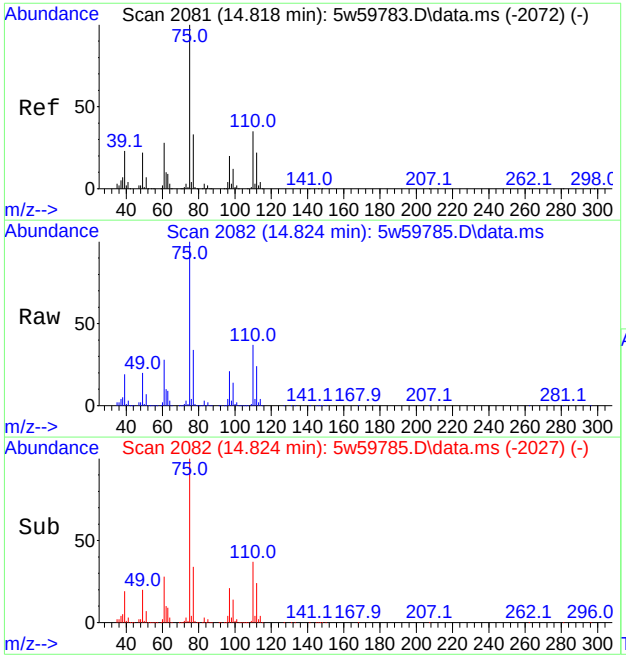


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 38.41 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 5834633

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.2	95.2
131	11.1	0.0	40.3

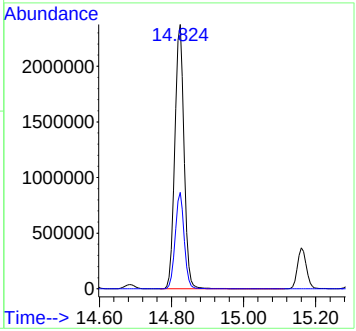


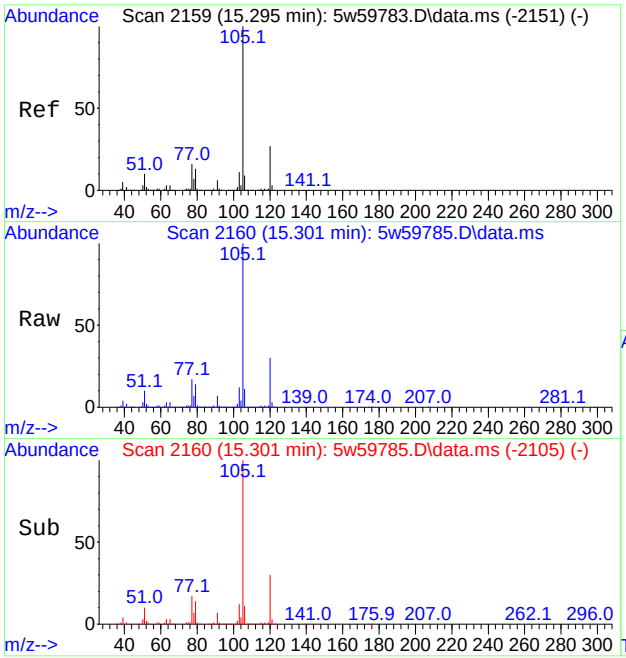


#87
1,2,3-TRICHLOROPROPANE
Concen: 33.30 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4239056

Ion	Ratio	Lower	Upper
75	100		
110	35.6	4.4	64.4

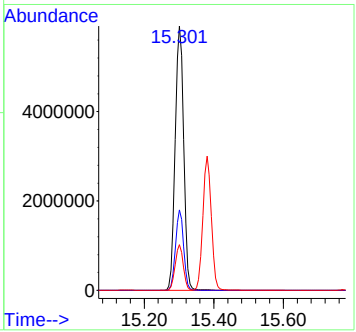


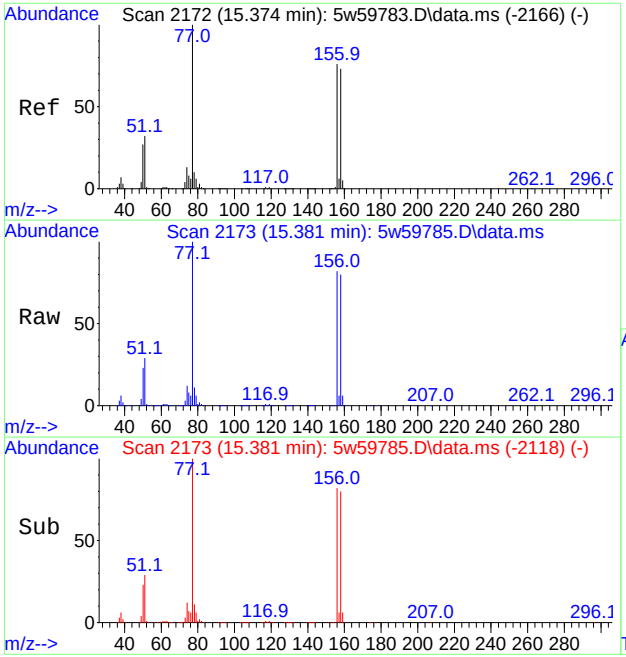


#88
ISOPROPYLBENZENE
Concen: 35.54 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp:10105051

Ion	Ratio	Lower	Upper
105	100		
120	28.8	0.0	56.0
77	16.4	0.0	45.6

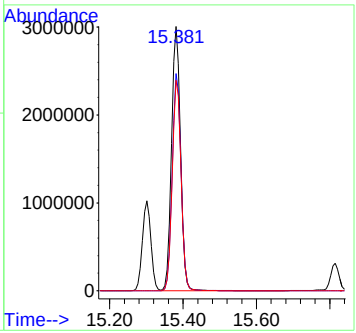


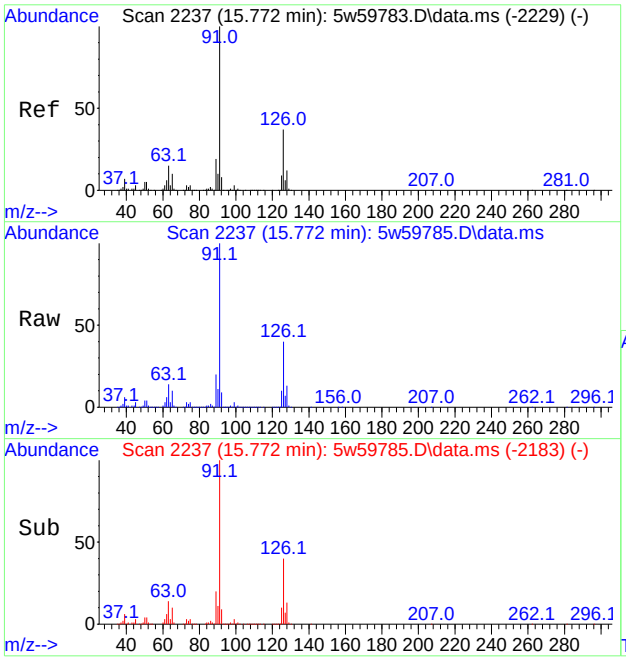


#89
BROMOBENZENE
Concen: 34.24 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 77 Resp: 5092227

Ion	Ratio	Lower	Upper
77	100		
156	81.3	54.9	101.9
158	79.0	53.5	99.3

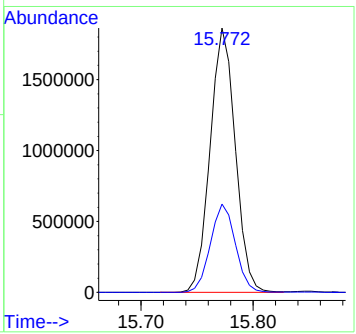


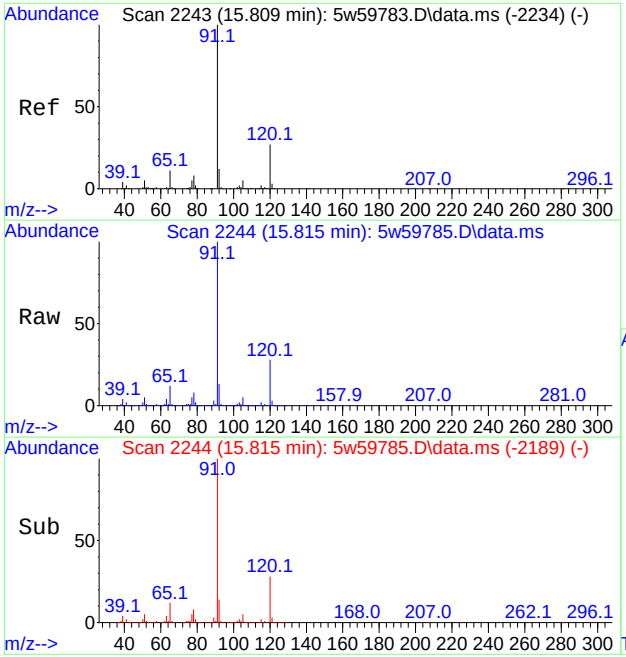


#90
2-CHLOROTOLUENE
Concen: 38.46 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:126 Resp: 2919479

Ion	Ratio	Lower	Upper
126	100		
128	33.1	2.7	62.7

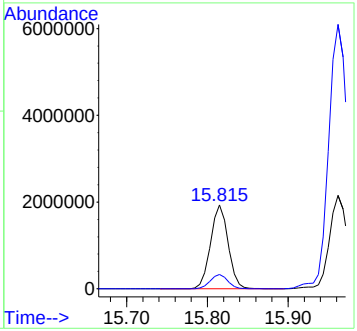


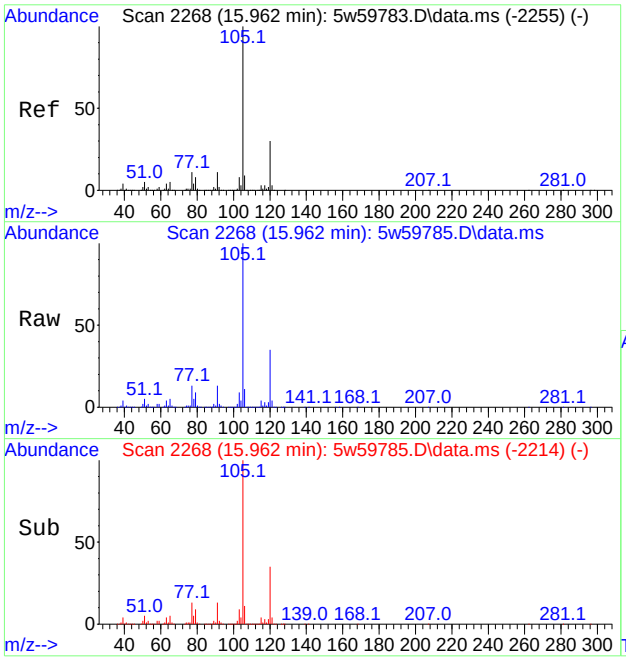


#91
n-PROPYLBENZENE
Concen: 38.73 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:120 Resp: 2929586

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

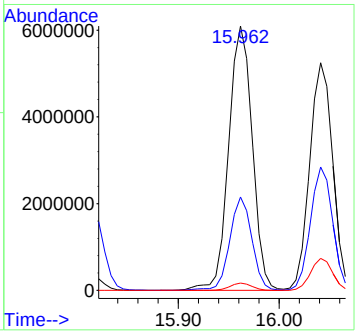


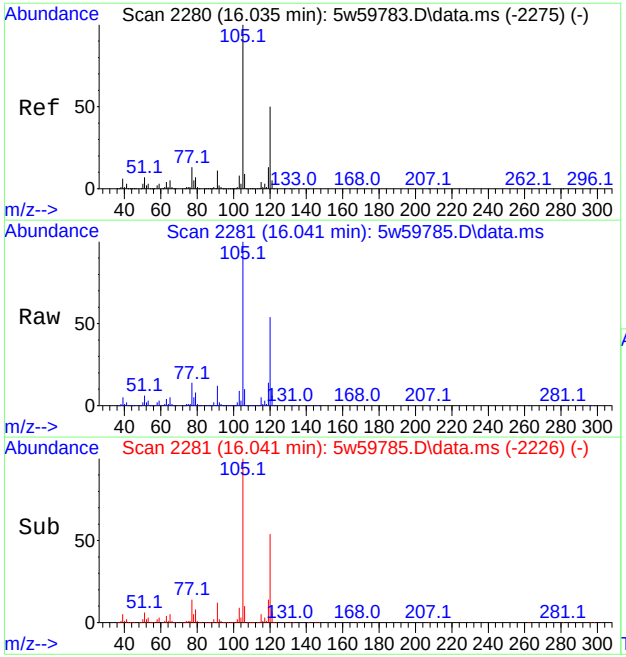


#92
4-ETHYLTOLUENE
Concen: 38.91 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 9932010

Ion	Ratio	Lower	Upper
105	100		
120	33.0	0.0	59.9
119	2.6	0.0	32.3

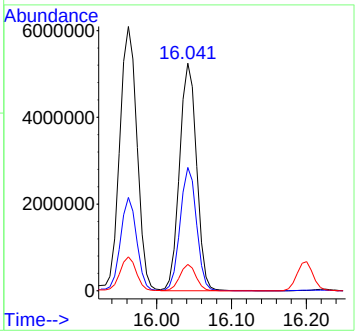


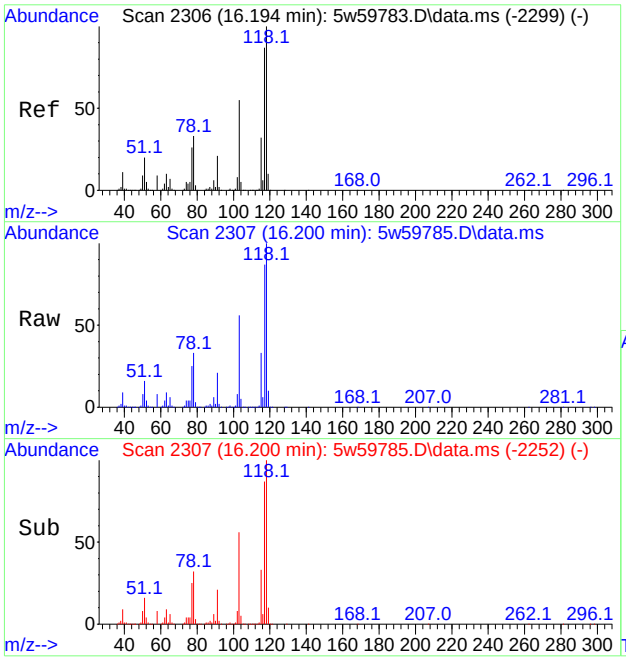


#93
1,3,5-TRIMETHYLBENZENE
Concen: 35.08 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 8308295

Ion	Ratio	Lower	Upper
105	100		
120	52.2	19.4	79.4
91	11.1	0.0	40.8

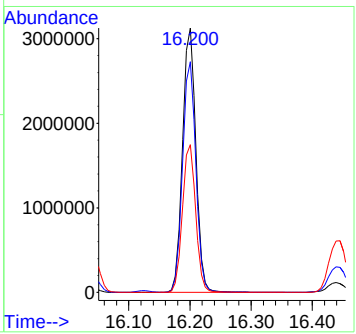


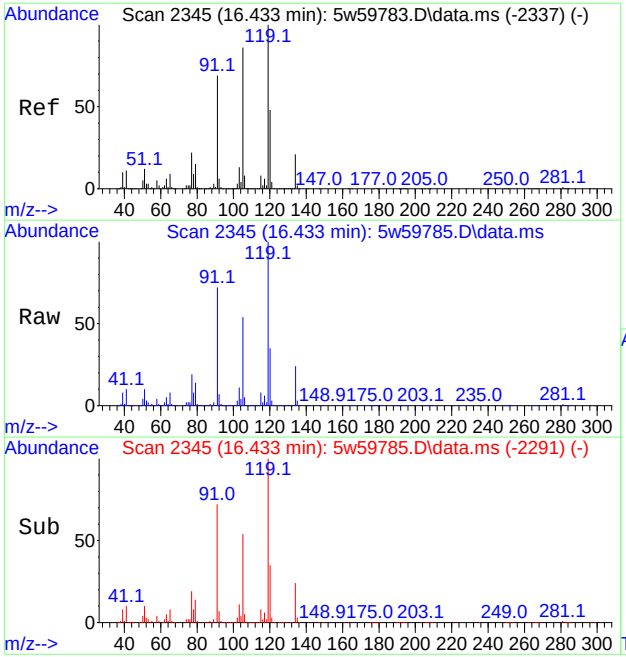


#94
ALPHA-METHYLSTYRENE
Concen: 41.57 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:118 Resp: 4732251

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.7	38.6	71.8

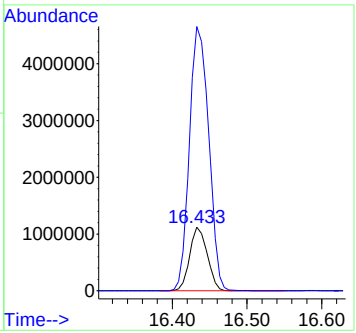


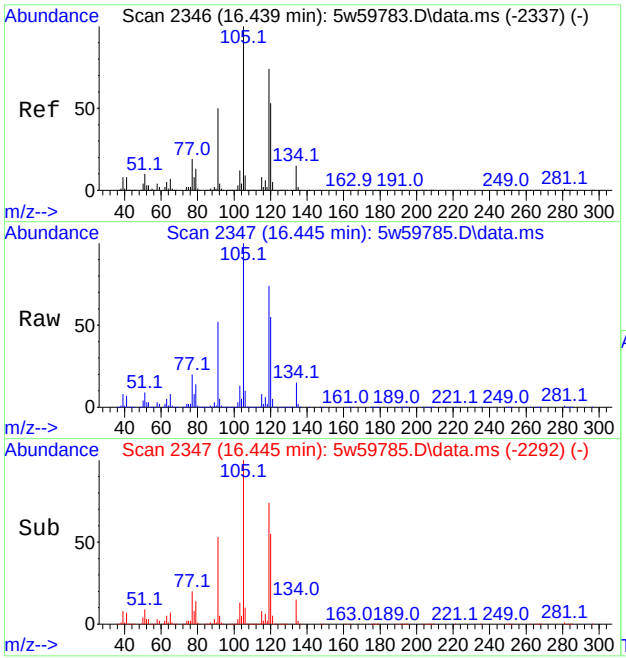


#95
tert-BUTYLBENZENE
Concen: 37.13 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 1826681

Ion	Ratio	Lower	Upper
134	100		
119	457.8	459.3	519.3#

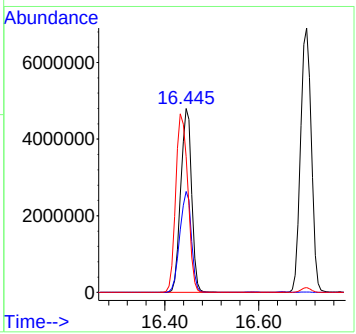


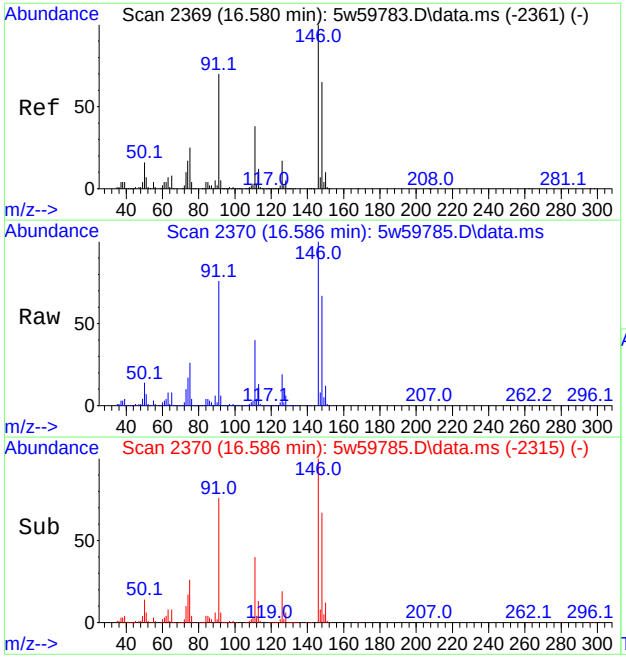


#96
1,2,4-TRIMETHYLBENZENE
Concen: 33.90 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7744703

Ion	Ratio	Lower	Upper
105	100		
120	58.3	25.7	85.7
119	108.0	75.7	135.7

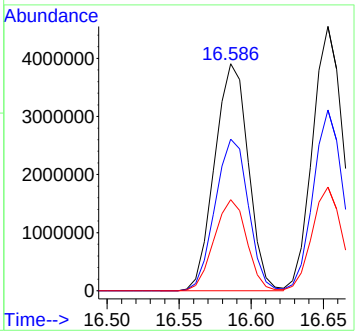


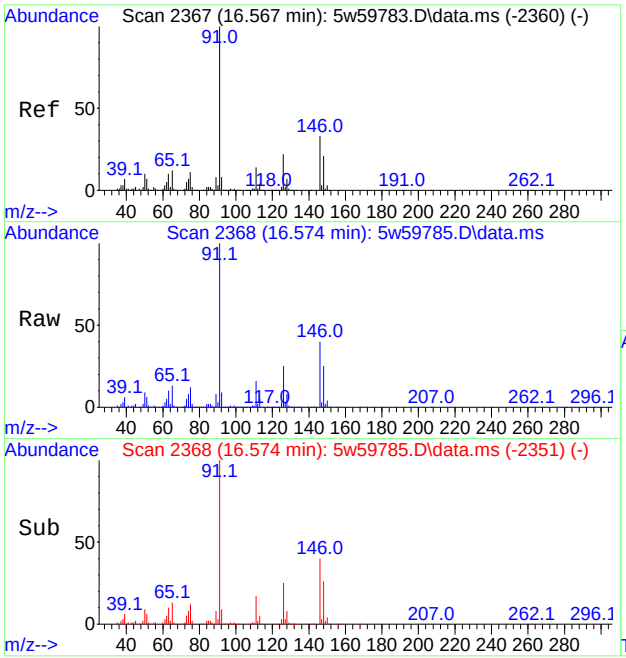


#97
m-DICHLOROBENZENE
Concen: 34.54 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6361294

Ion	Ratio	Lower	Upper
146	100		
148	66.1	34.8	94.8
111	39.0	8.2	68.2

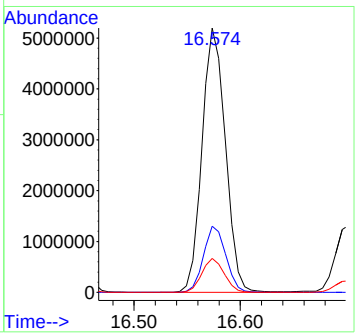


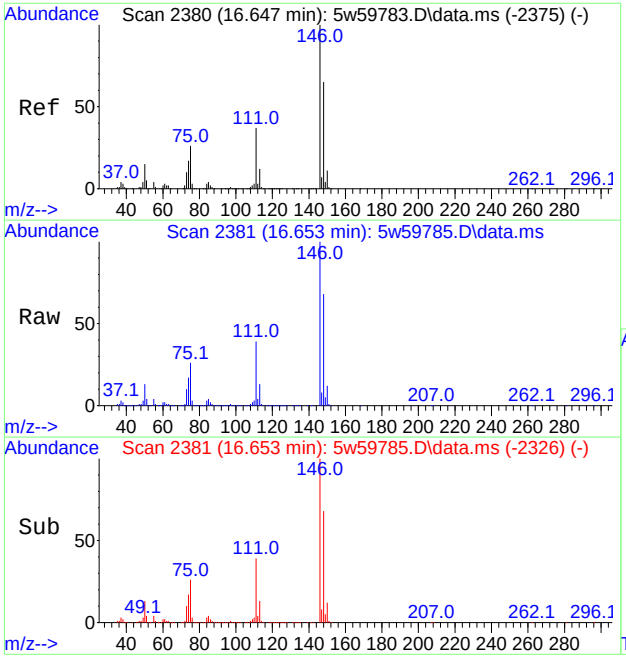


#98
BENZYL CHLORIDE
Concen: 38.06 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 7942485

Ion	Ratio	Lower	Upper
91	100		
126	24.0	0.0	51.7
65	12.3	0.0	42.2

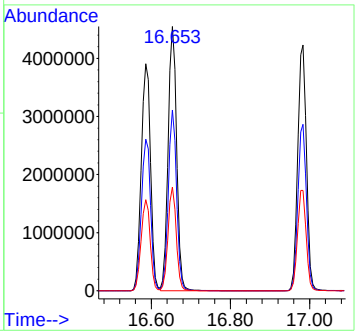


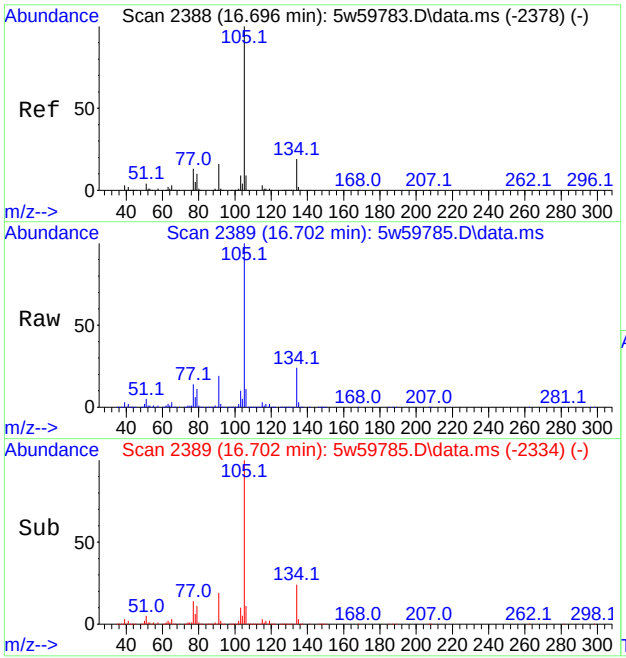


#99
p-DICHLOROBENZENE
Concen: 35.68 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6796416

Ion	Ratio	Lower	Upper
146	100		
148	66.6	34.6	94.6
111	38.0	6.7	66.7

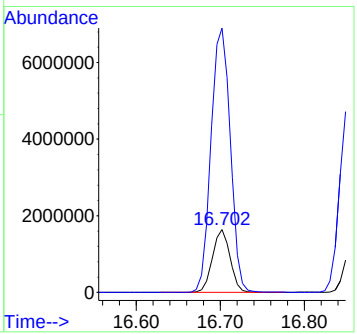


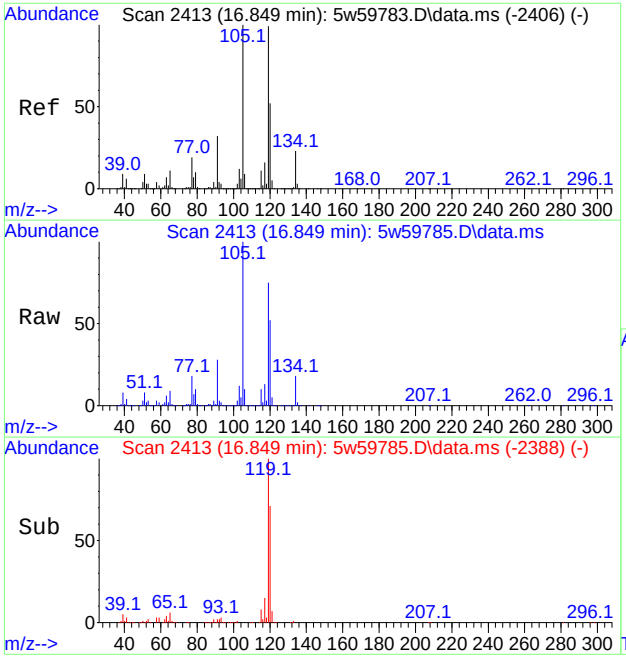


#100
sec-BUTYLBENZENE
Concen: 37.89 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2382473

Ion	Ratio	Lower	Upper
134	100		
105	462.5	502.5	562.5#

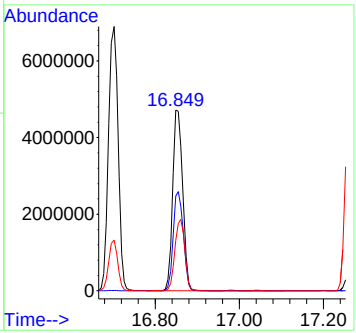


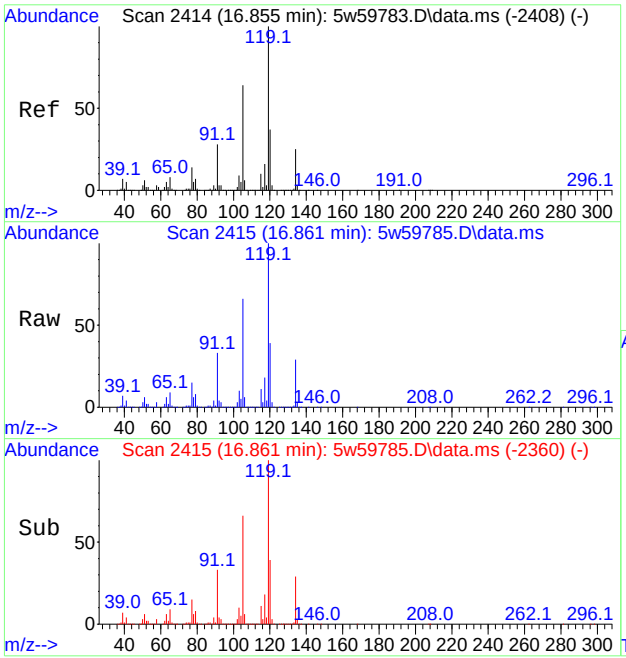


#101
1,2,3-TRIMETHYLBENZENE
Concen: 32.09 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7842082

Ion	Ratio	Lower	Upper
105	100		
120	55.3	23.5	83.5
91	38.9	7.4	67.4

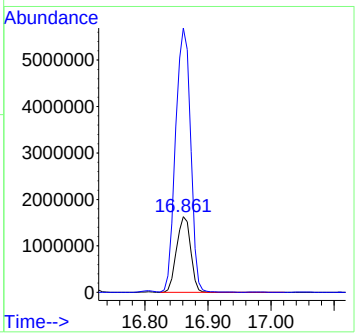


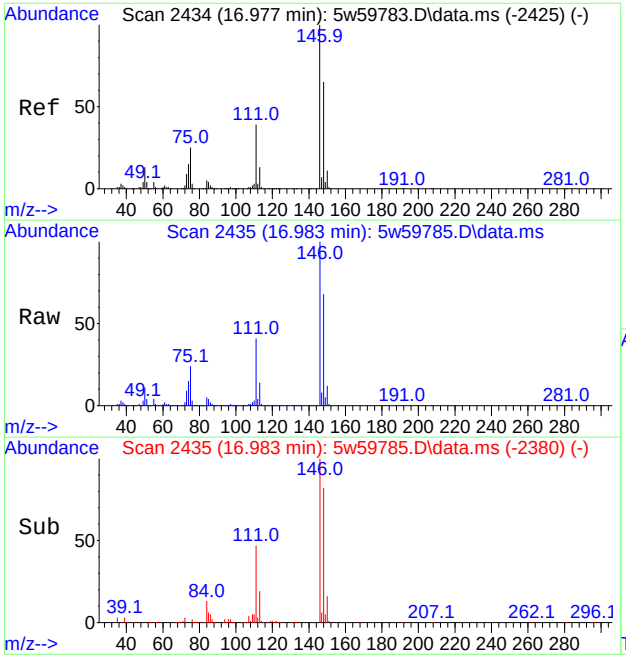


#102
p-ISOPROPYLTOLUENE
Concen: 35.07 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2537472

Ion	Ratio	Lower	Upper
134	100		
119	372.6	377.7	437.7#

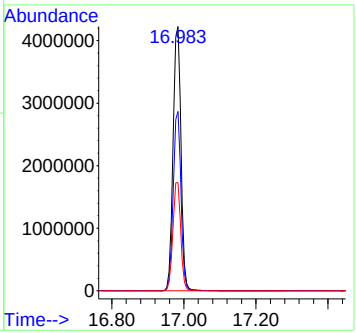


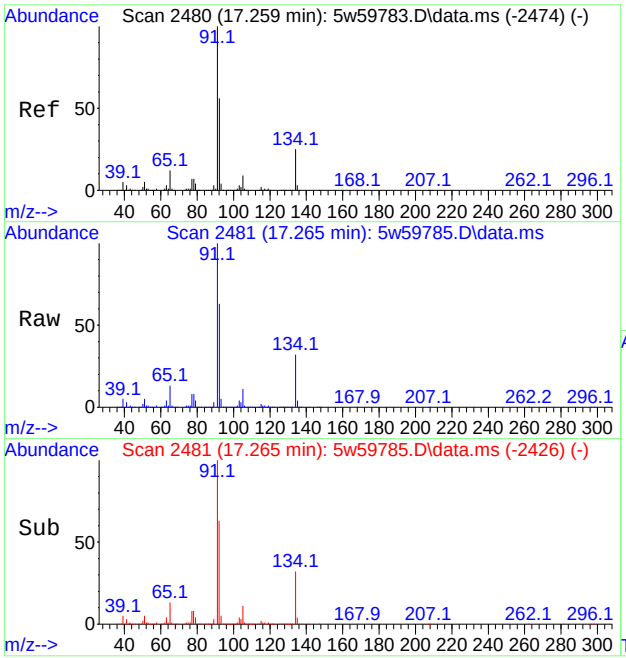


#103
o-DICHLOROBENZENE
Concen: 34.67 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6444852

Ion	Ratio	Lower	Upper
146	100		
148	66.3	34.3	94.3
111	40.6	9.2	69.2

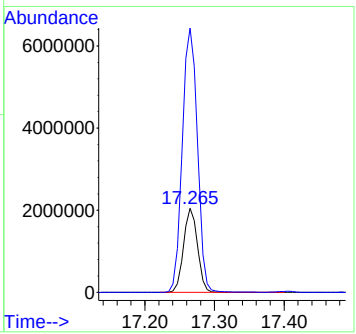


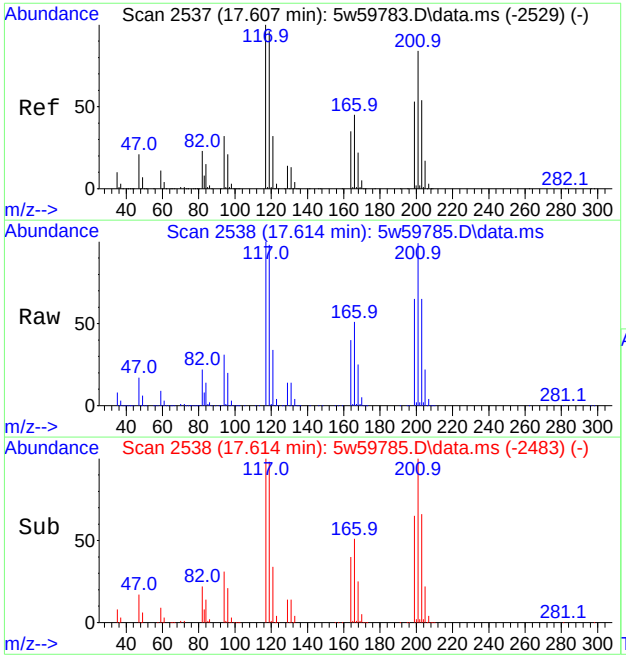


#104
n-BUTYLBENZENE
Concen: 43.05 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2846318

Ion	Ratio	Lower	Upper
134	100		
91	341.3	363.1	423.1#

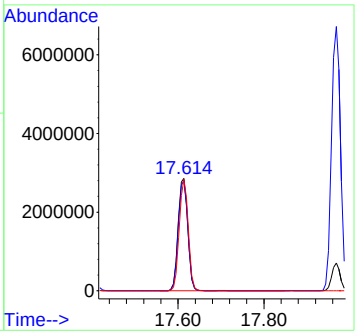


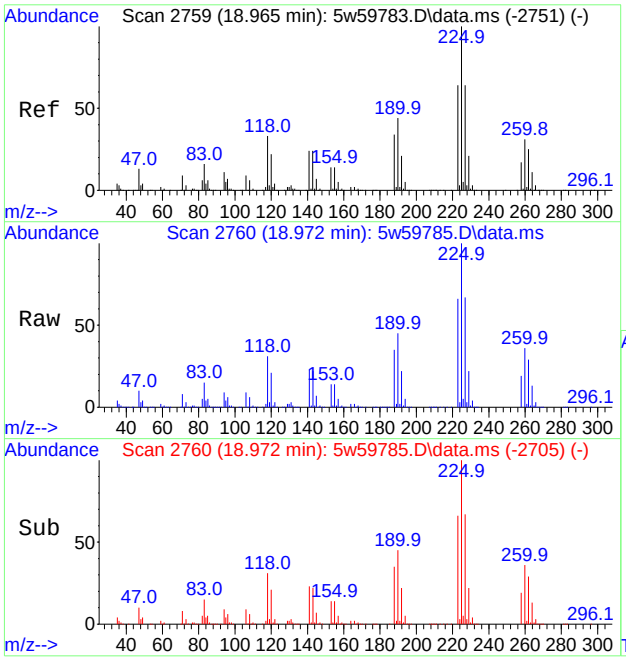


#105
HEXACHLOROETHANE
Concen: 36.00 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4455103

Ion	Ratio	Lower	Upper
117	100		
119	96.9	67.2	124.8
201	93.1	61.1	113.5

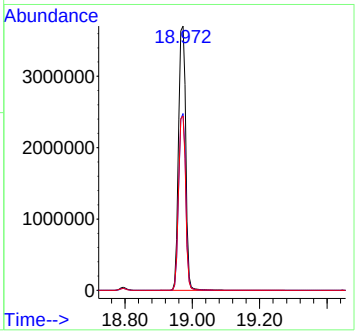


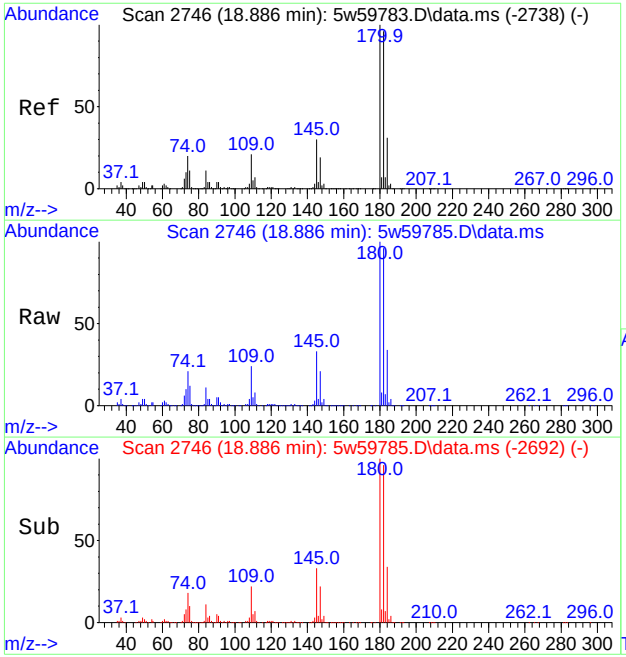


#106
HEXACHLOROBUTADIENE
Concen: 28.29 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:225 Resp: 5455879

Ion	Ratio	Lower	Upper
225	100		
227	65.9	34.2	94.2
223	65.2	33.3	93.3

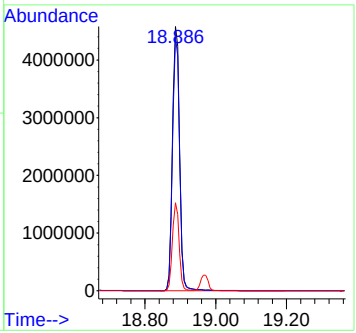


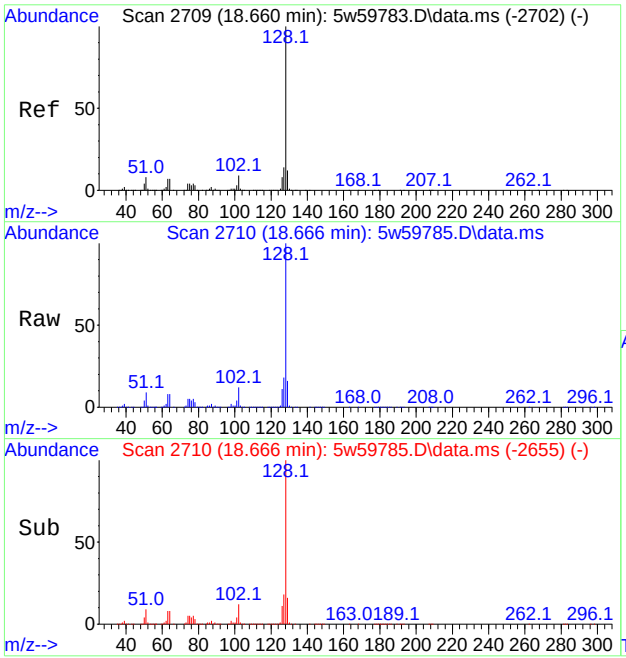


#107
1,2,4-TRICHLOROBENZENE
Concen: 48.55 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:180 Resp: 6383531

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	31.5	0.0	59.4

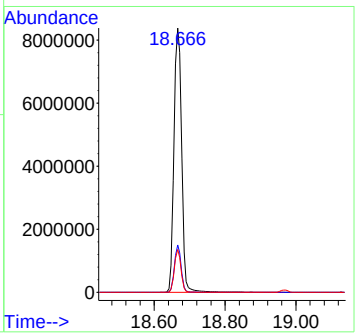


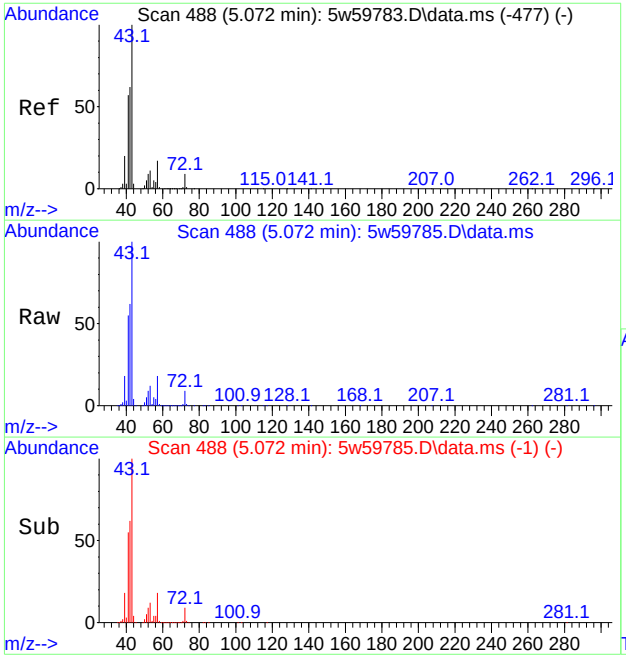


#108
NAPHTHALENE
Concen: 41.10 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:128 Resp:12695949

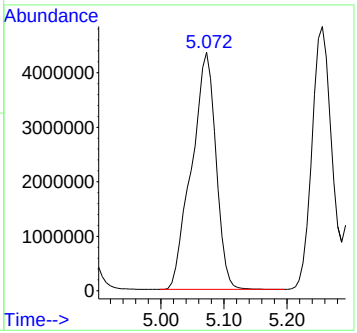
Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	43.3
129	14.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 33.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:TIC Resp:11631459



Manual Integration Approval Summary

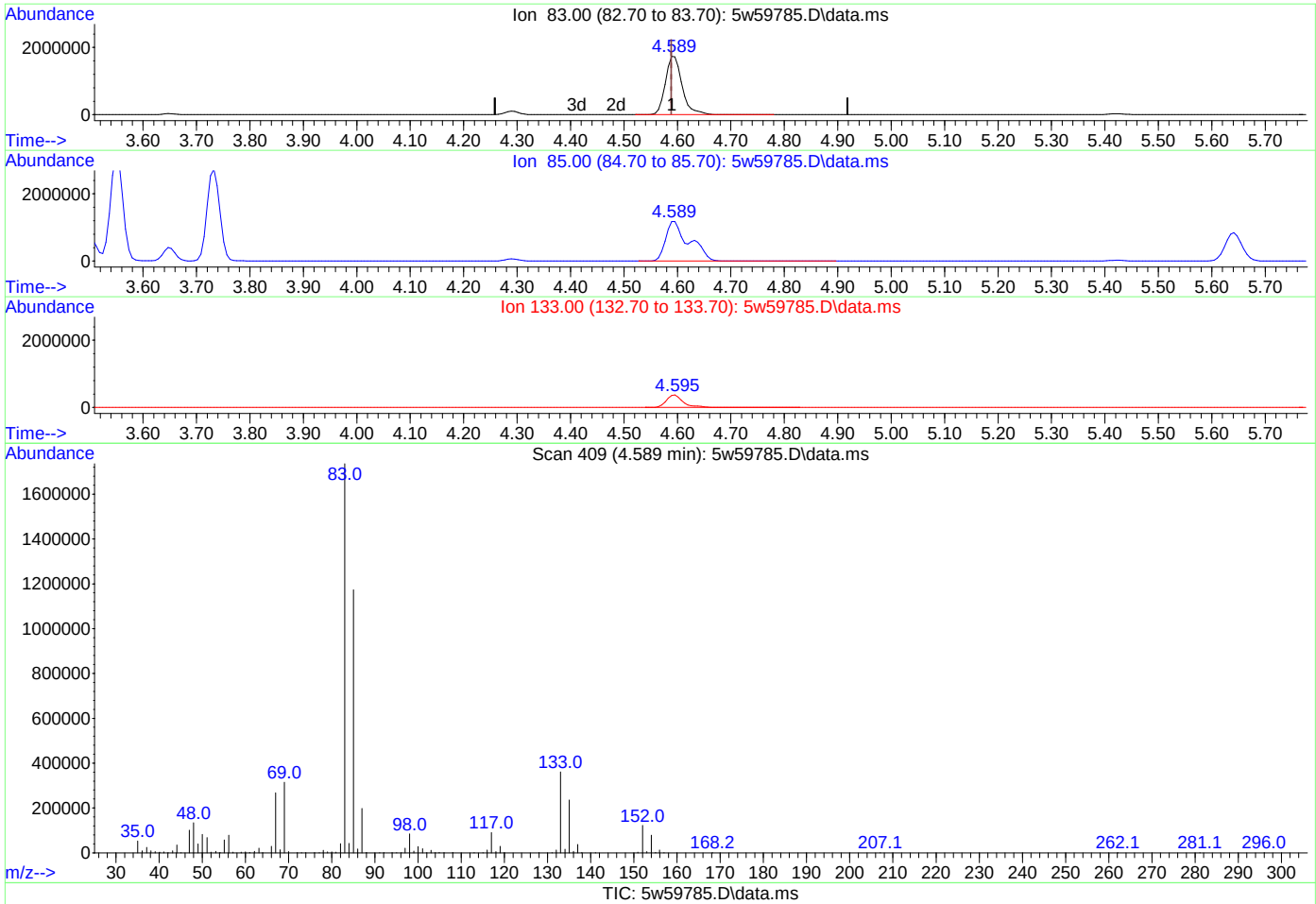
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59785.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:54 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV

response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.18#
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
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QLast Update : Fri Nov 07 09:40:43 2025
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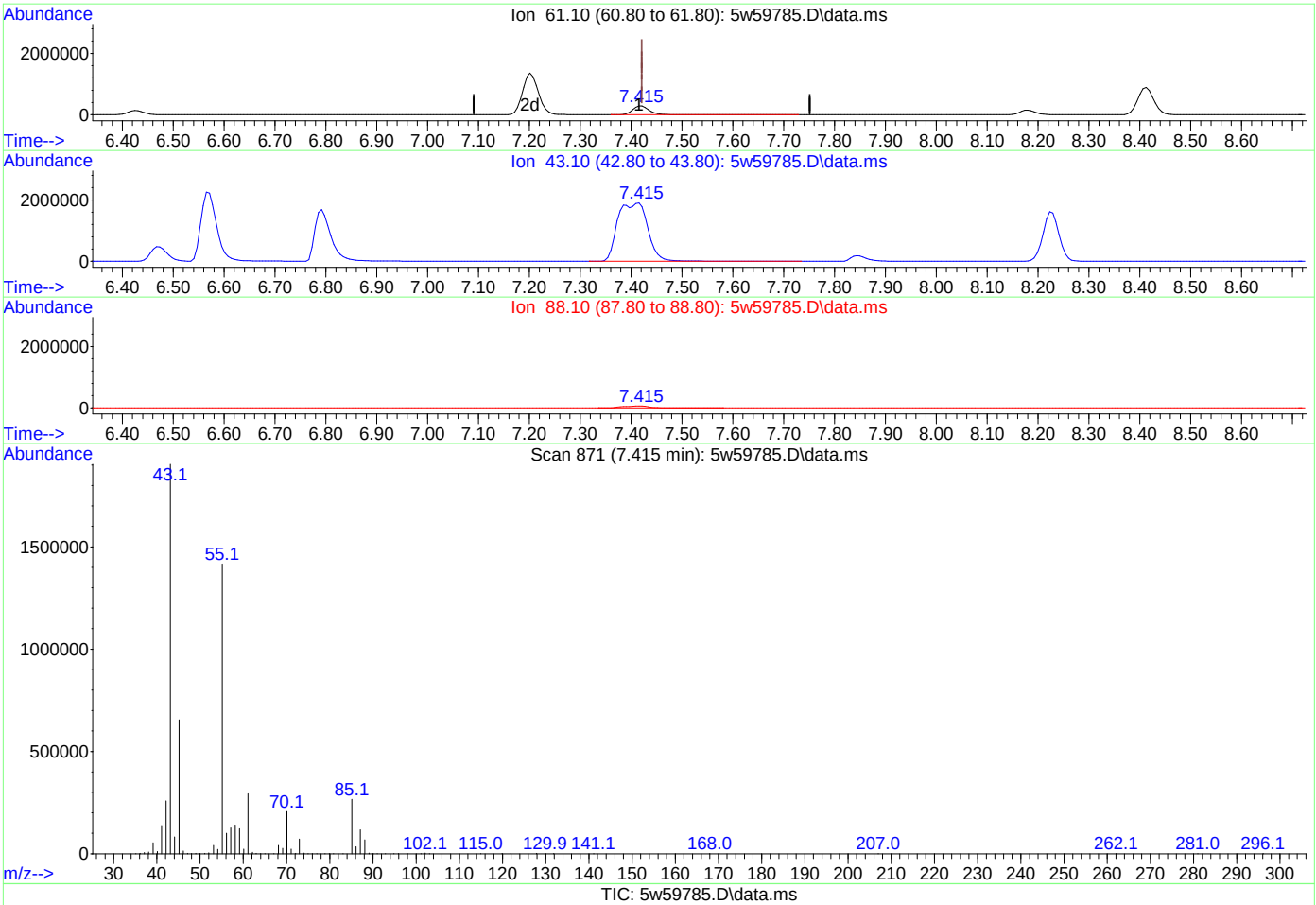

TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV

response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1167.91#
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
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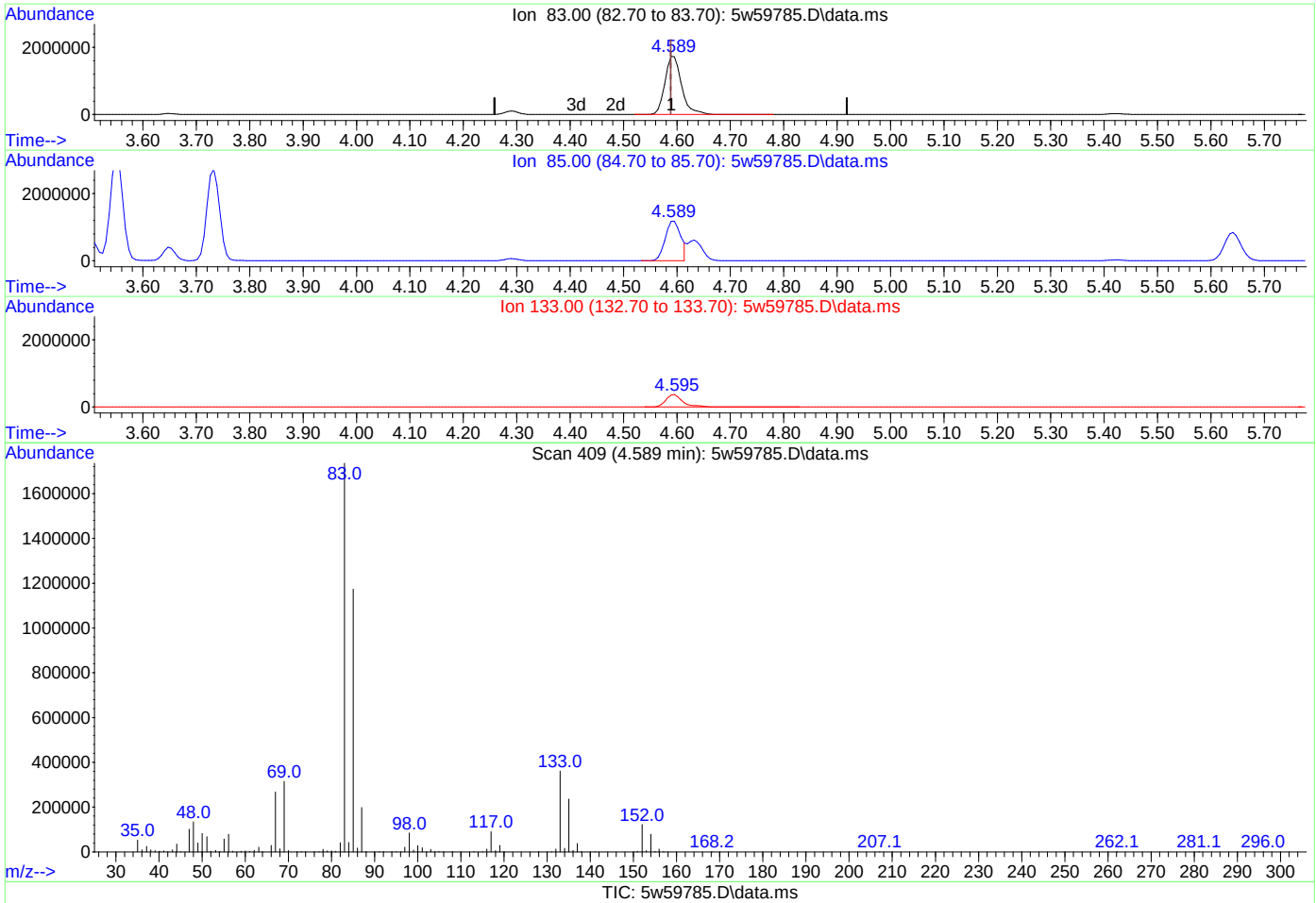

TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV m

response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.60
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
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Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
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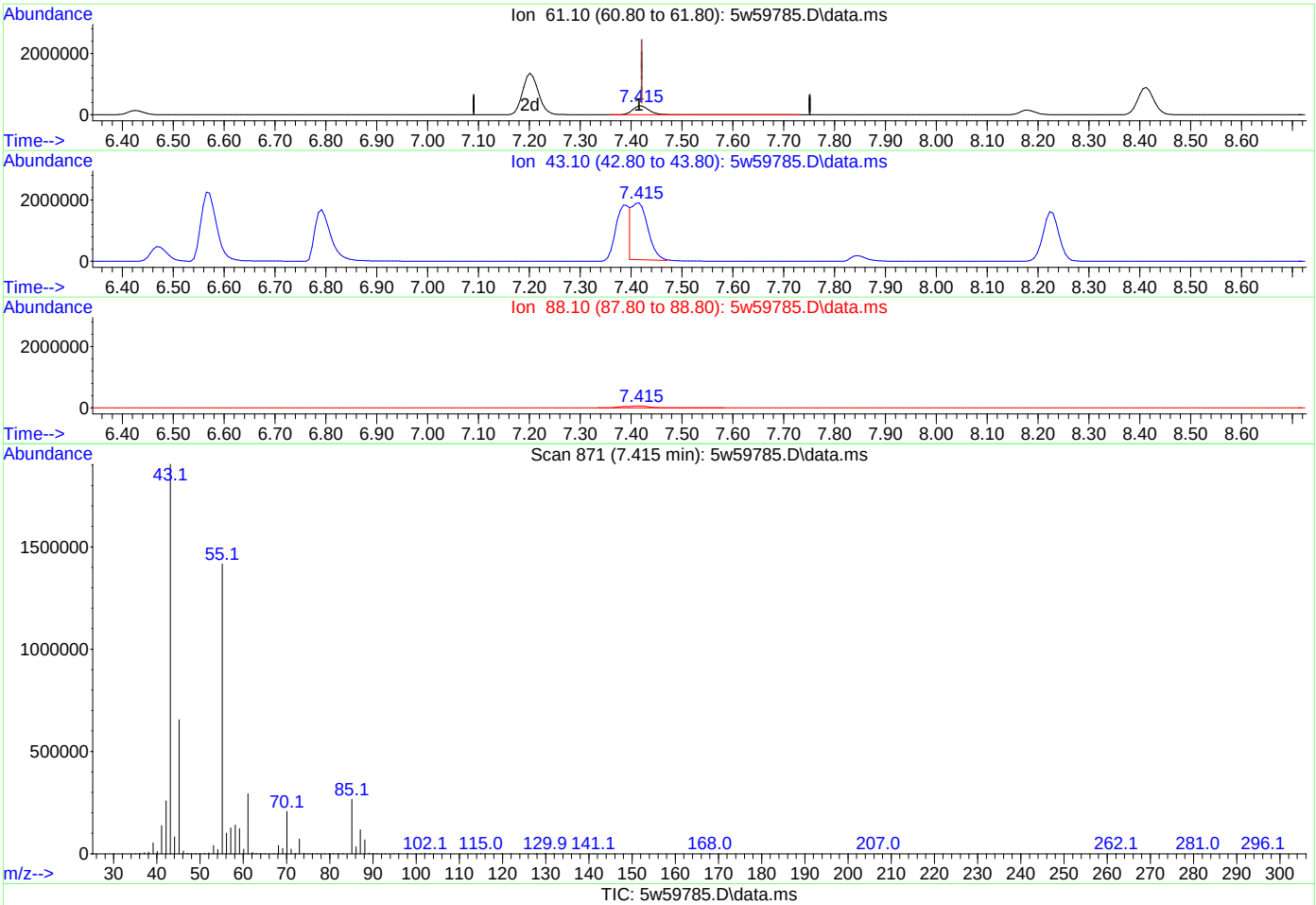

TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV m

response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	592.51
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
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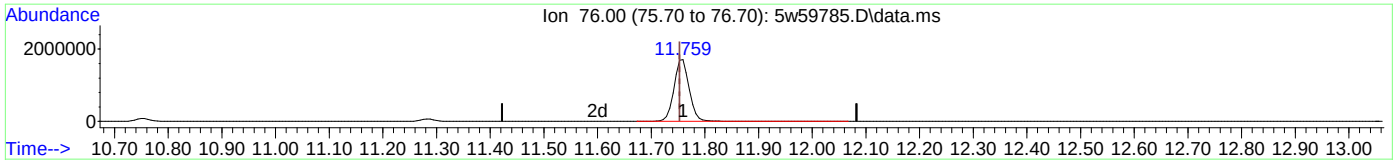

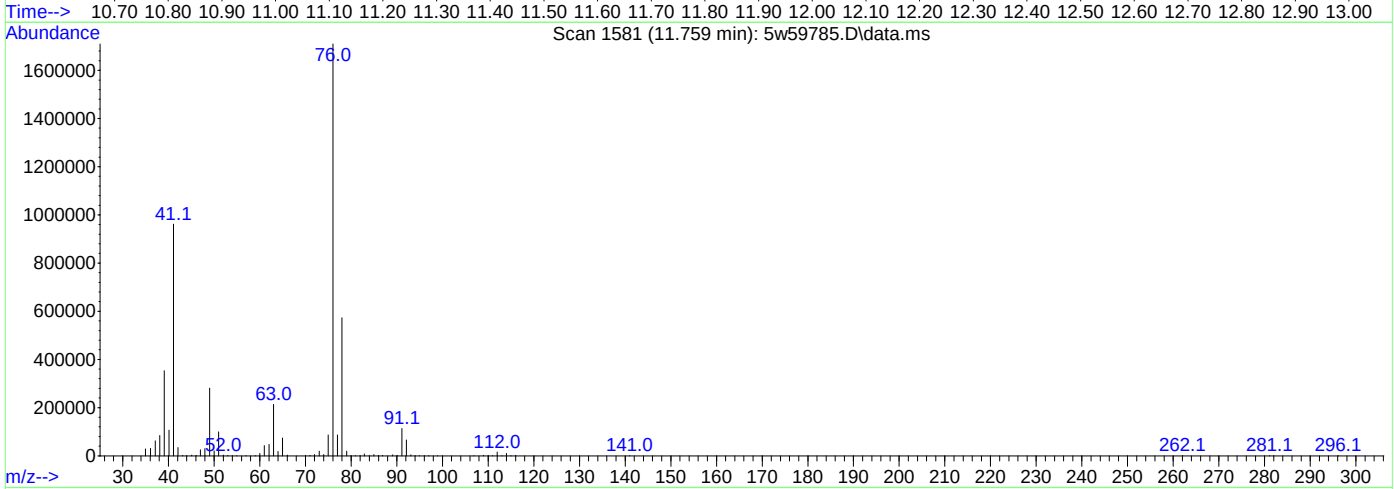

TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV

response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
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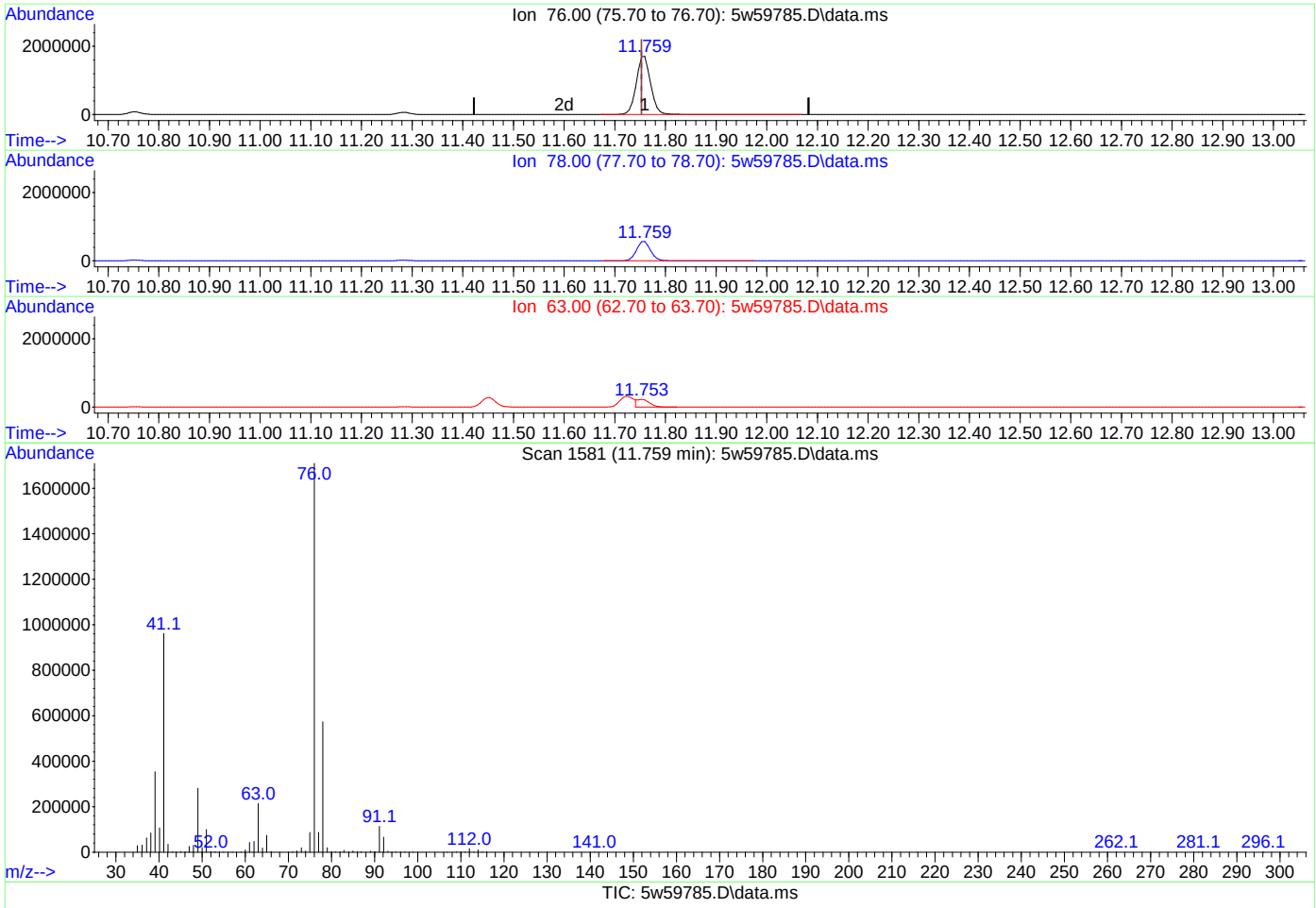
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV m

response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	11.06
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.360	128	467162	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1929313	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1280918	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	467697	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.160	95	1403075	8.83	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 88.30%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	512492	7.63	PPBV		99
3) FREON 152A	3.445	65	1696184	36.17	PPBV		95
4) CHLORODIFLUOROMETHANE	3.475	67	765807	35.25	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.500	116	3809315	35.53	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	6454003	31.33	PPBV		97
7) PROPYLENE	3.494	41	1647441	32.49	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	4644392	27.21	PPBV		99
9) FREON 114	3.726	85	5332552	28.55	PPBV		96
10) CHLOROMETHANE	3.659	52	593159	28.33	PPBV		99
11) VINYL CHLORIDE	3.812	62	2006744	28.44	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1201486	27.81	PPBV		98
13) n-BUTANE	3.940	43	1865429	24.94	PPBV		98
14) BROMOMETHANE	4.099	94	2201552	30.01	PPBV		100
15) CHLOROETHANE	4.222	64	910647	29.04	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	4344933	28.26	PPBV		99
17) ACETONITRILE	4.479	41	1047676	24.43	PPBV		99
18) ACROLEIN	4.564	56	630972	24.71	PPBV		96
19) FREON 123	4.589	83	4570353m	27.57	PPBV		
20) FREON 123A	4.632	117	2921341	29.40	PPBV		93
21) TRICHLOROFLUOROMETHANE	4.791	101	5263086	26.51	PPBV		99
22) ISOPROPYL ALCOHOL	4.870	45	3712437	25.25	PPBV		100
23) ACETONE	4.668	58	738868	25.68	PPBV		96
24) PENTANE	5.072	42	2159289	29.26	PPBV		97
25) IODOMETHANE	5.250	142	7543155	35.46	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2443503	33.22	PPBV		95
27) CARBON DISULFIDE	5.672	76	6480951	33.10	PPBV		98
28) ETHANOL	4.320	45	668282	25.13	PPBV		99
29) BROMOETHENE	4.479	106	2216899	32.02	PPBV		100
30) ACRYLONITRILE	5.042	52	1601584	34.08	PPBV		99
31) METHYLENE CHLORIDE	5.421	84	2117266	32.13	PPBV		96
32) 3-CHLOROPROPENE	5.519	76	1102190	35.87	PPBV		90
33) FREON 113	5.641	151	4335347	33.71	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2566855	33.70	PPBV		97
35) TERTIARY BUTYL ALCOHOL	5.372	59	4270952	27.79	PPBV		99
36) METHYL TERTIARY BUTYL ...	6.467	73	6337595	33.80	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1023793	37.42	PPBV		97
38) HEXANE	7.379	57	3623516	34.89	PPBV		91
39) VINYL ACETATE	6.571	86	477066	39.37	PPBV	#	79
40) 1,1-DICHLOROETHANE	6.424	63	4545260	33.30	PPBV		99
41) METHYL ETHYL KETONE	6.791	72	1116320	39.33	PPBV	#	86
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2772689	35.23	PPBV		97
43) DIISOPROPYL ETHER	7.391	59	1134199	38.69	PPBV	#	77
44) ETHYL ACETATE	7.421	61	845012m	34.91	PPBV		
45) METHYL ACRYLATE	7.409	55	4442118	33.33	PPBV		96
46) CHLOROFORM	7.489	83	5265891	33.15	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.223	57	4372372	35.95	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	5674011	33.44	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	6150579	33.09	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	3745660	33.65	PPBV		99
52)	BENZENE	8.859	78	7354311	40.36	PPBV		99
53)	CYCLOHEXANE	9.110	84	2949070	40.67	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1522391	42.20	PPBV		93
55)	TRICHLOROETHYLENE	9.893	95	3632086	37.53	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	2868397	37.03	PPBV		99
57)	DIBROMOMETHANE	9.636	174	4006214	38.37	PPBV		98
58)	ETHYL ACRYLATE	9.685	55	5610538	37.54	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	6264555	37.04	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	10265949	34.27	PPBV		97
61)	1,4-DIOXANE	9.893	88	1571741	39.31	PPBV	#	1
62)	HEPTANE	10.193	43	3734901	36.15	PPBV		94
63)	METHYL METHACRYLATE	10.107	69	2494133	41.16	PPBV		96
64)	METHYL ISOBUTYL KETONE	10.786	58	2440543	38.84	PPBV		90
65)	cis-1,3-DICHLOROPROPENE	10.756	75	5041121	41.46	PPBV		91
66)	TOLUENE	11.722	92	5480196	41.16	PPBV		95
67)	1,3-DICHLOROPROPANE	11.759	76	4271872m	38.74	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	4565890	40.93	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.453	83	3077034	42.06	PPBV		100
71)	2-HEXANONE	12.010	58	3450029	32.66	PPBV		89
72)	ETHYL METHACRYLATE	12.028	69	4427593	33.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	4203511	31.36	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	7029117	30.46	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	5931699	33.98	PPBV		100
76)	OCTANE	12.750	43	5161401	28.88	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	4713028	31.92	PPBV		99
78)	CHLOROBENZENE	13.588	112	7439915	30.47	PPBV		99
79)	ETHYLBENZENE	13.992	91	11379916	31.54	PPBV		95
80)	m,p-XYLENE	14.194	106	9117454	65.12	PPBV		89
81)	o-XYLENE	14.689	106	4240336	32.29	PPBV		94
82)	STYRENE	14.573	104	7405410	37.26	PPBV		99
83)	NONANE	14.940	43	4961142	27.57	PPBV		91
84)	BROMOFORM	14.261	173	7504388	32.02	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	6869258	29.32	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	5400423	29.33	PPBV		96
88)	ISOPROPYLBENZENE	15.301	105	11977220	28.72	PPBV		94
89)	BROMOBENZENE	15.381	77	6360723	29.55	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	3685448	32.56	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	3584454	31.94	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	11670979	30.19	PPBV		93
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	9865714	28.34	PPBV		95
94)	ALPHA-METHYLSTYRENE	16.200	118	5900787	33.71	PPBV		99
95)	tert-BUTYLBENZENE	16.433	134	2122779	28.46	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	8886934	26.06	PPBV		97
97)	m-DICHLOROBENZENE	16.592	146	7359121	27.06	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	9095992	28.12	PPBV		96
99)	p-DICHLOROBENZENE	16.653	146	7993903	28.96	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	2827725	30.67	PPBV	#	70
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9024748	24.94	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	2924462	27.10	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	7985671	29.61	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	3481921	34.55	PPBV	#	72
105)	HEXACHLOROETHANE	17.614	117	5208368	28.92	PPBV		96
106)	HEXACHLOROBUTADIENE	18.972	225	6236008	22.78	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	7600427	32.01	PPBV		99
108)	NAPHTHALENE	18.666	128	14205927	26.02	PPBV		91
110)	TVHC as equiv Pentane	5.066	TIC	14466620	31.68	PPBV		100

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QLast Update : Fri Nov 07 09:56:45 2025
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
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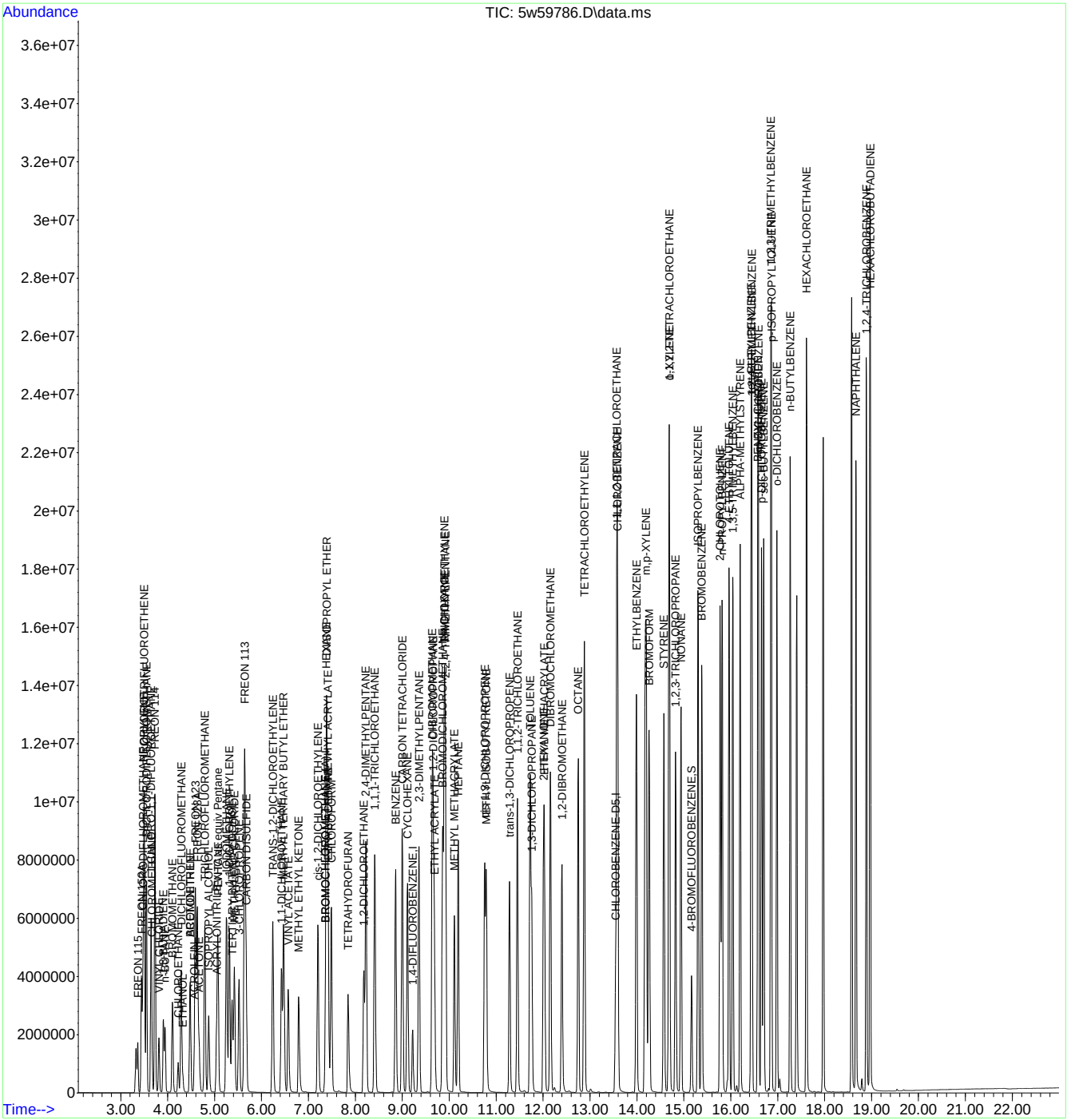
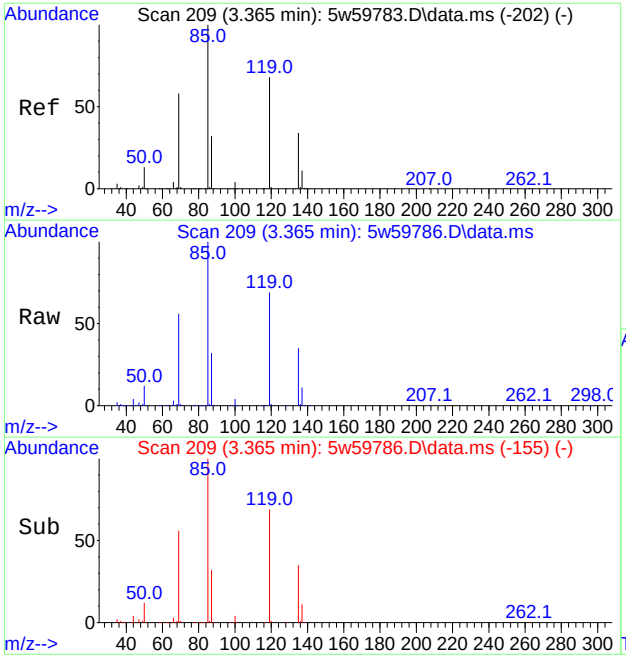
Response via : Initial Calibration

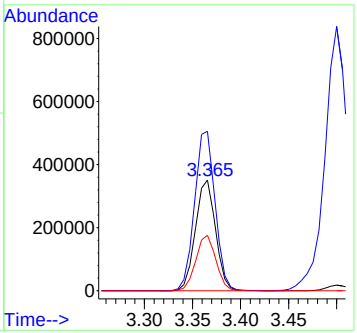


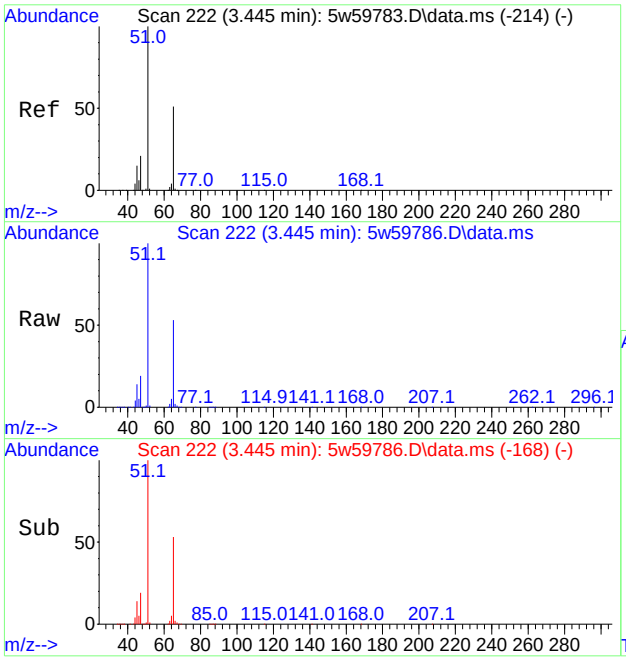


#2
FREON 115
Concen: 7.63 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:119 Resp: 512492

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.1	20.6	80.6

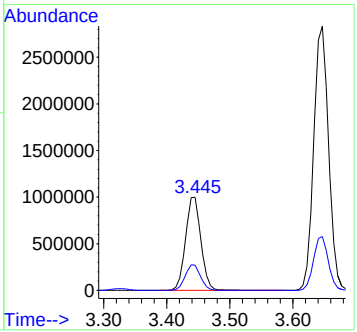


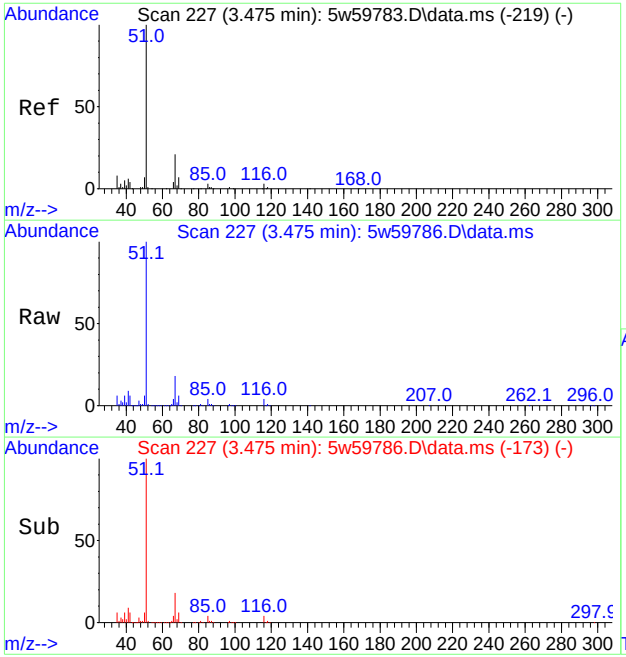


#3
FREON 152A
Concen: 36.17 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 1696184

Ion	Ratio	Lower	Upper
65	100		
45	27.4	0.0	60.0

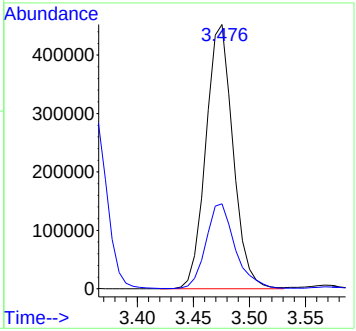


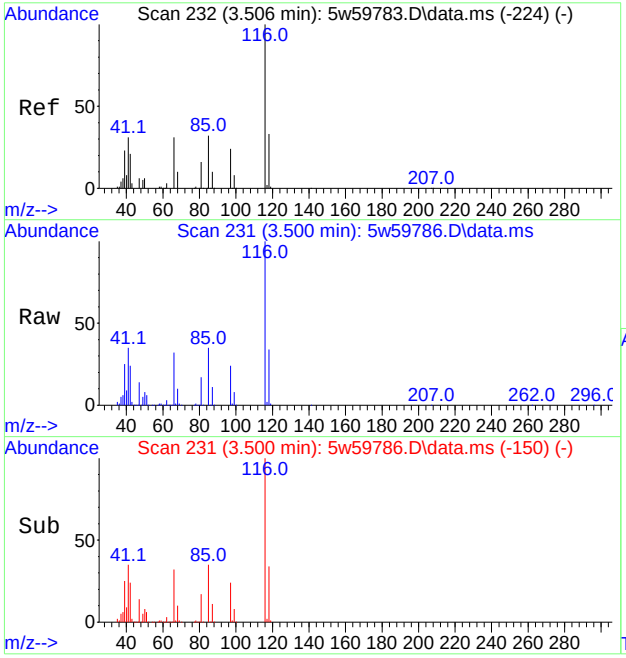


#4
CHLORODIFLUOROMETHANE
Concen: 35.25 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 765807

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

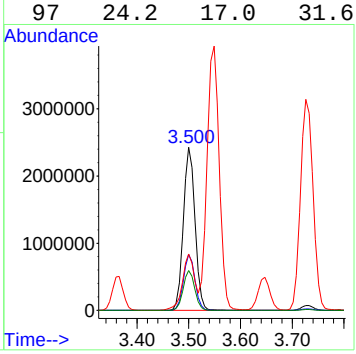


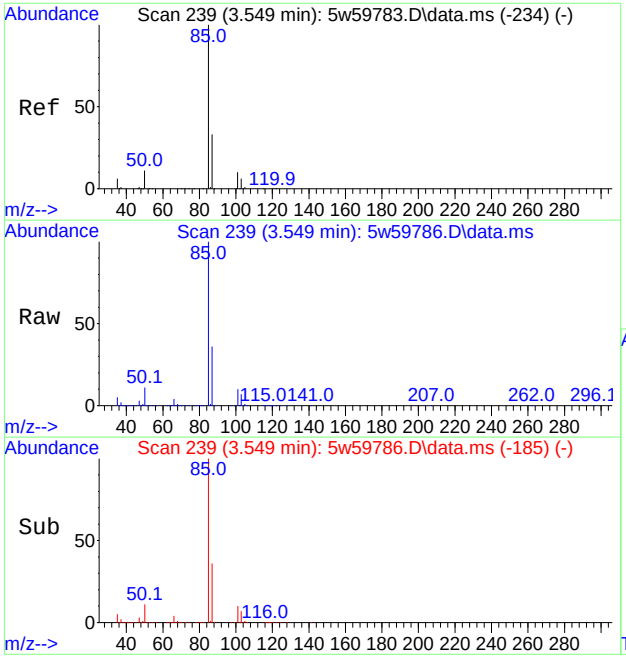


#5
CHLOROTRIFLUOROETHENE
Concen: 35.53 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:116 Resp: 3809315

Ion	Ratio	Lower	Upper
116	100		
118	33.7	22.9	42.5
85	36.0	23.7	44.1
97	24.2	17.0	31.6

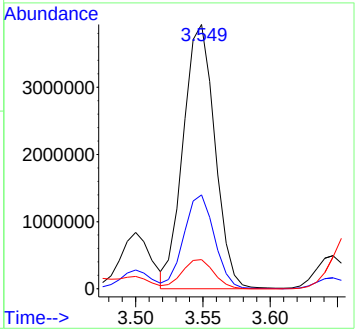


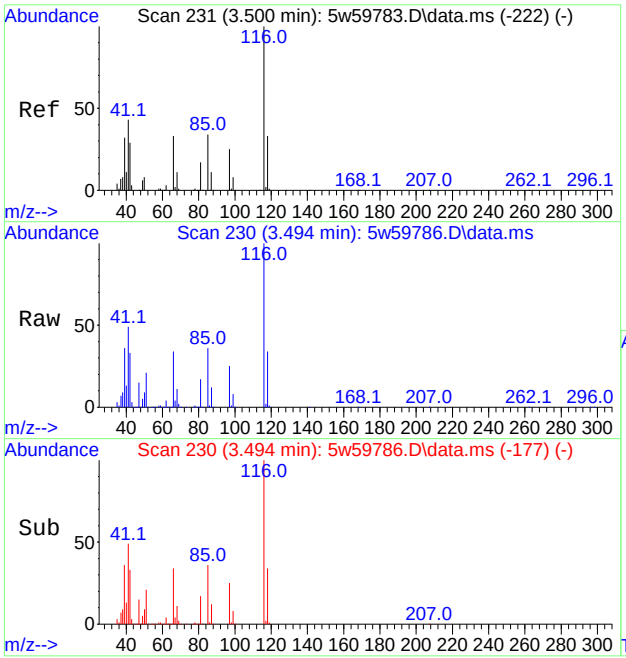


#6
DICHLORODIFLUOROMETHANE
Concen: 31.33 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 6454003

Ion	Ratio	Lower	Upper
85	100		
87	34.5	2.5	62.5
50	11.2	0.0	41.7

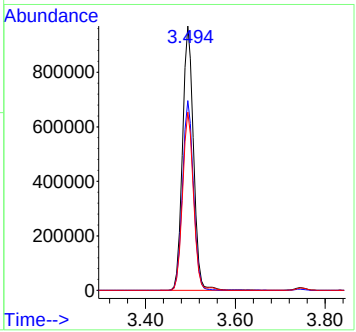


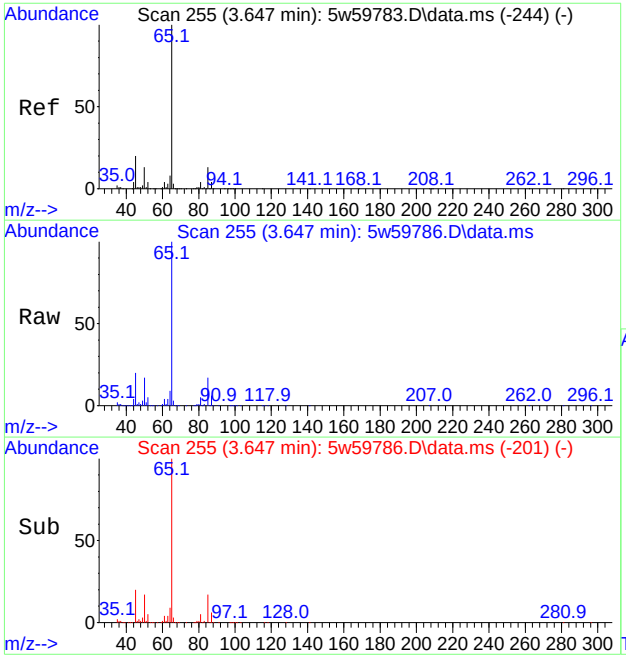


#7
PROPYLENE
Concen: 32.49 PPBV
RT: 3.494 min Scan# 230
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1647441

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.1	36.3	96.3

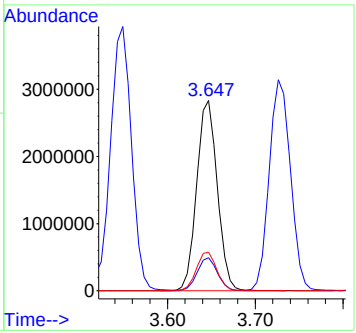


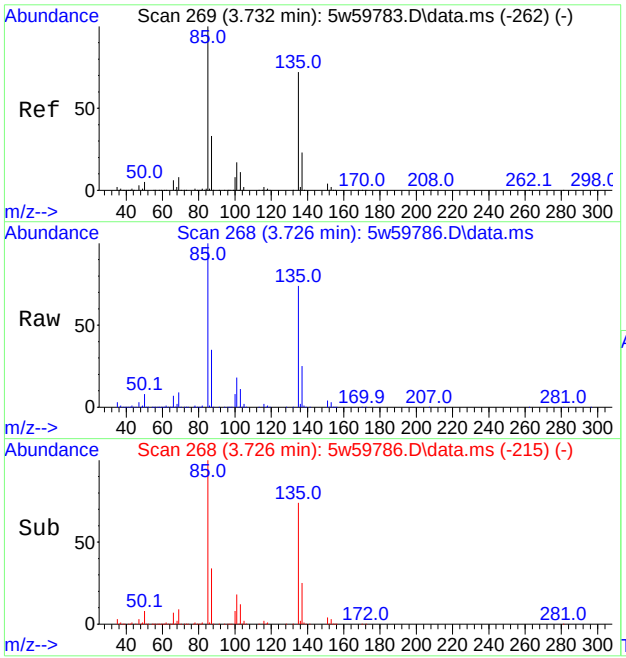


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 27.21 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 4644392

Ion	Ratio	Lower	Upper
65	100		
85	17.0	11.5	21.3
45	20.3	14.0	26.0

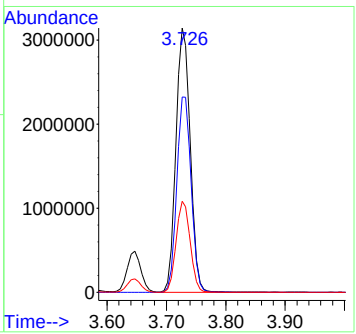


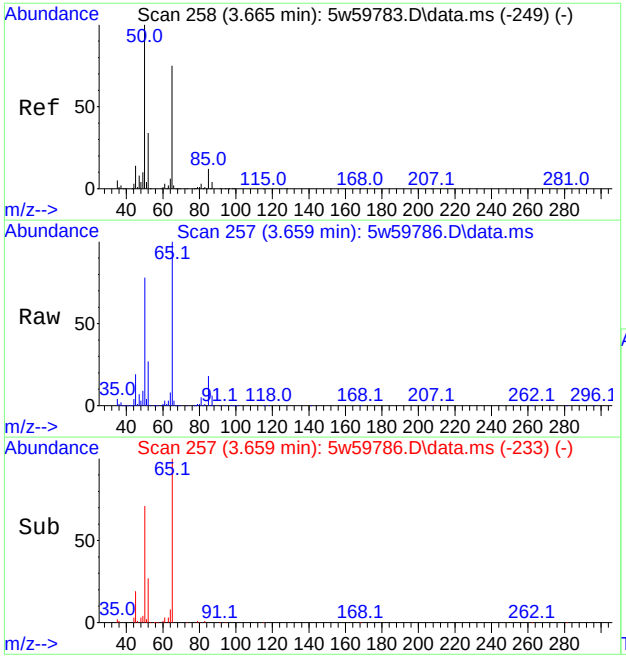


#9
FREON 114
Concen: 28.55 PPBV
RT: 3.726 min Scan# 268
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 5332552

Ion	Ratio	Lower	Upper
85	100		
135	74.3	40.5	100.5
87	33.9	3.0	63.0

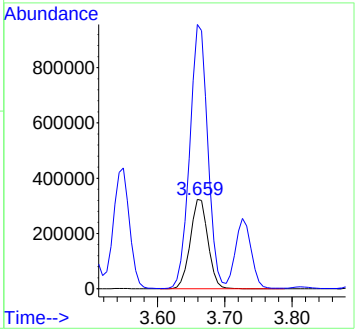


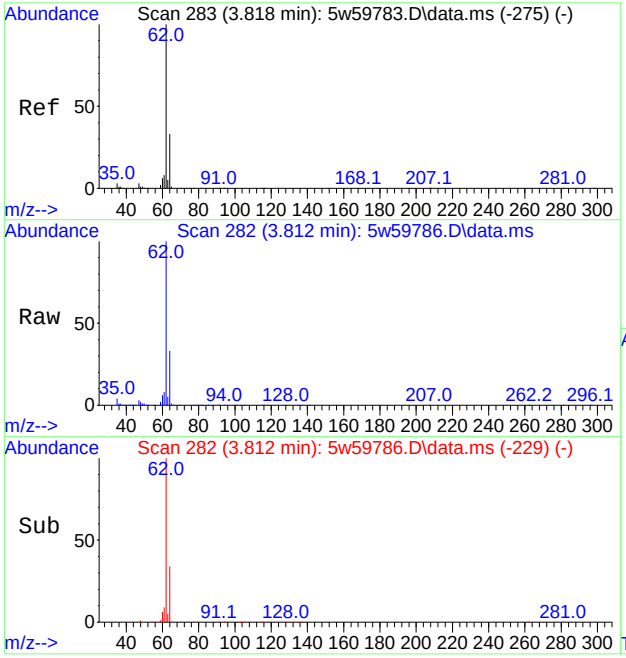


#10
CHLOROMETHANE
Concen: 28.33 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 593159

Ion	Ratio	Lower	Upper
52	100		
50	295.1	267.9	327.9

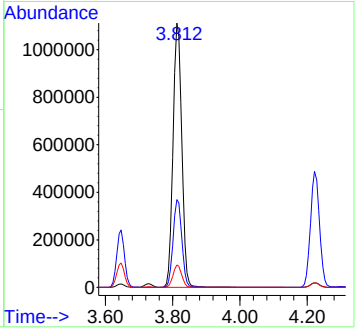


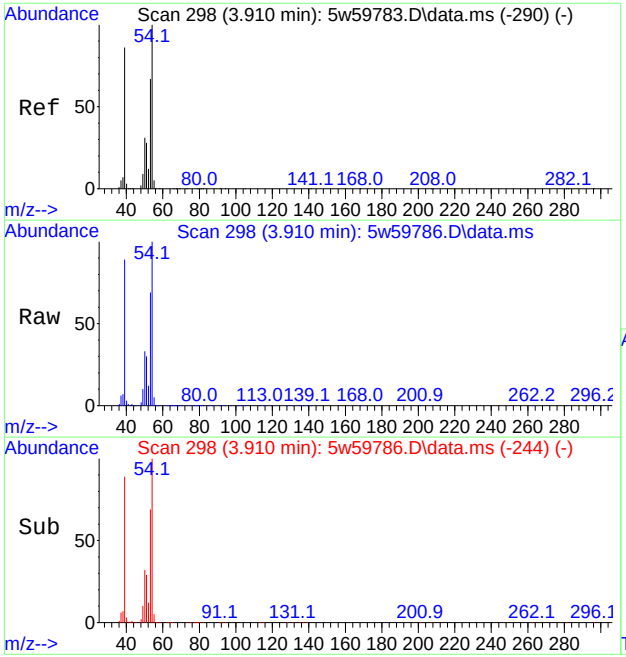


#11
VINYL CHLORIDE
Concen: 28.44 PPBV
RT: 3.812 min Scan# 282
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 2006744

Ion	Ratio	Lower	Upper
62	100		
64	33.3	3.6	63.6
61	8.4	0.0	38.2

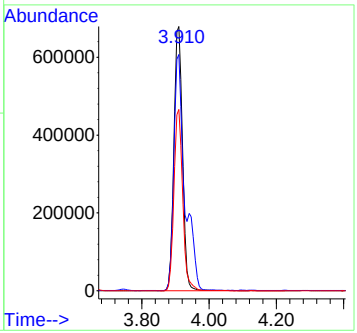


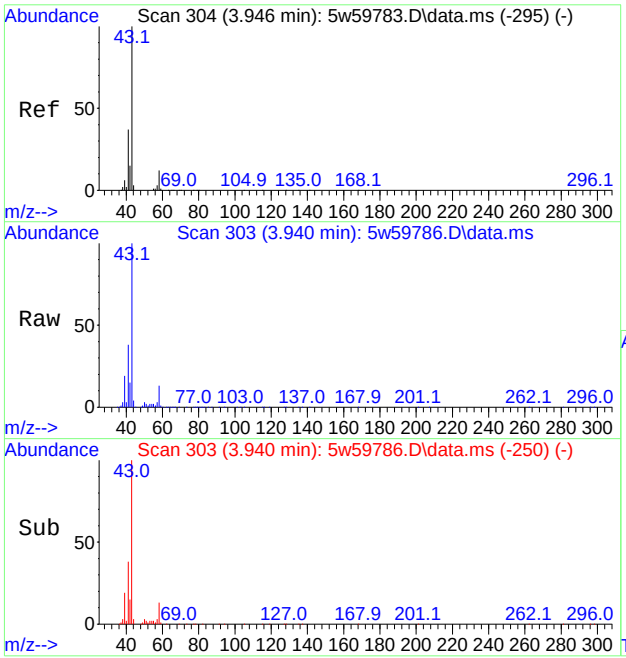


#12
1,3-BUTADIENE
Concen: 27.81 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 54 Resp: 1201486

Ion	Ratio	Lower	Upper
54	100		
39	114.6	82.0	142.0
53	70.5	40.2	100.2

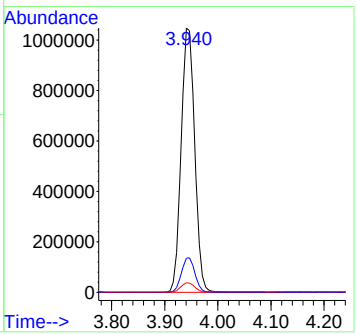


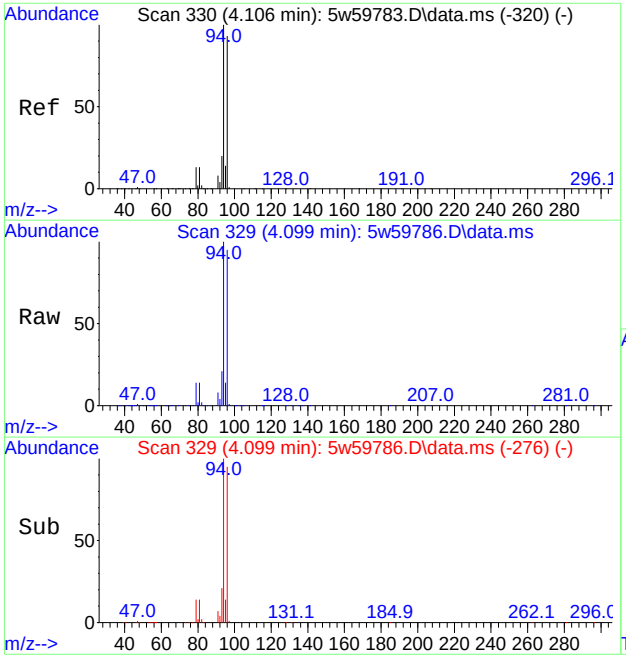


#13
n-BUTANE
Concen: 24.94 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 1865429

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.8	0.0	34.9

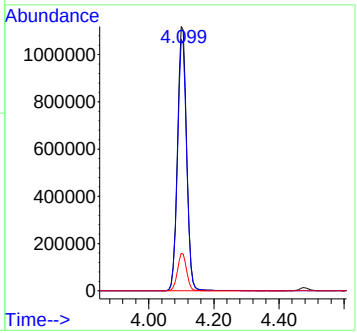


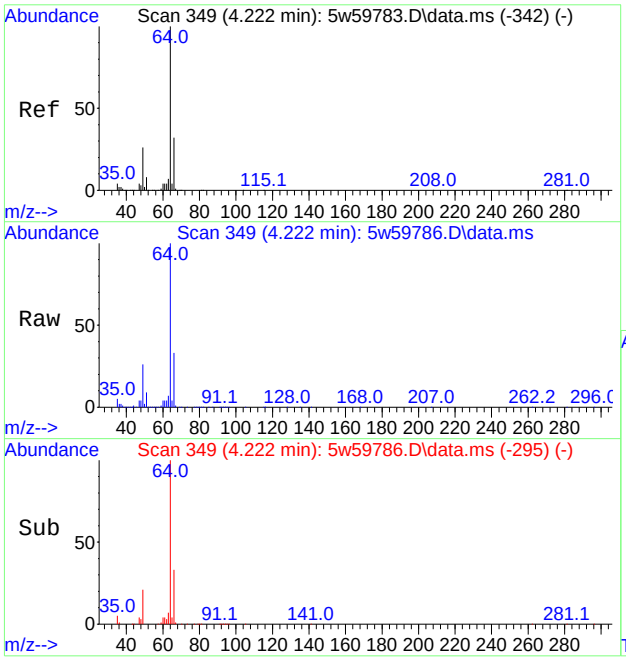


#14
BROMOMETHANE
Concen: 30.01 PPBV
RT: 4.099 min Scan# 329
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 94 Resp: 2201552

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

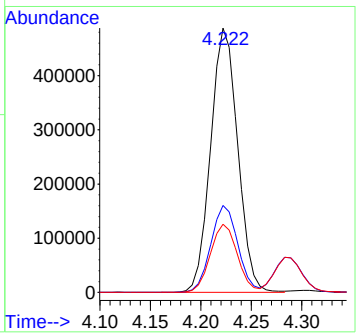


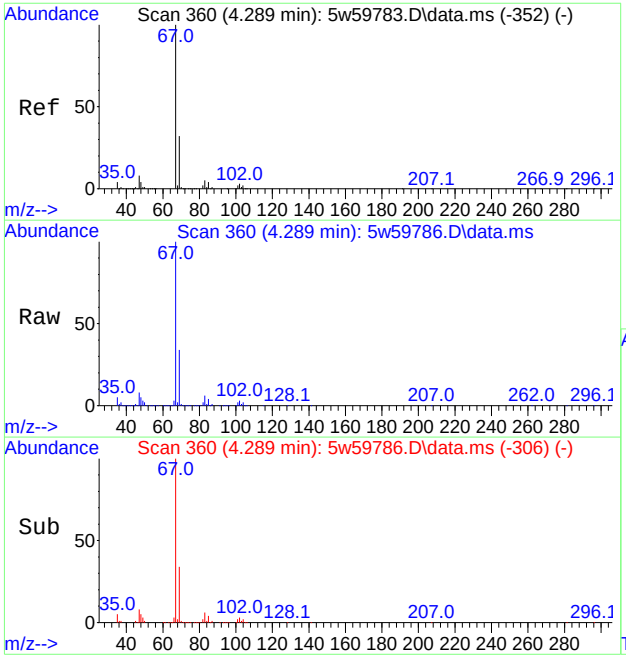


#15
CHLOROETHANE
Concen: 29.04 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 64 Resp: 910647

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

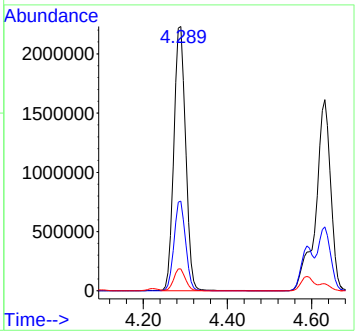


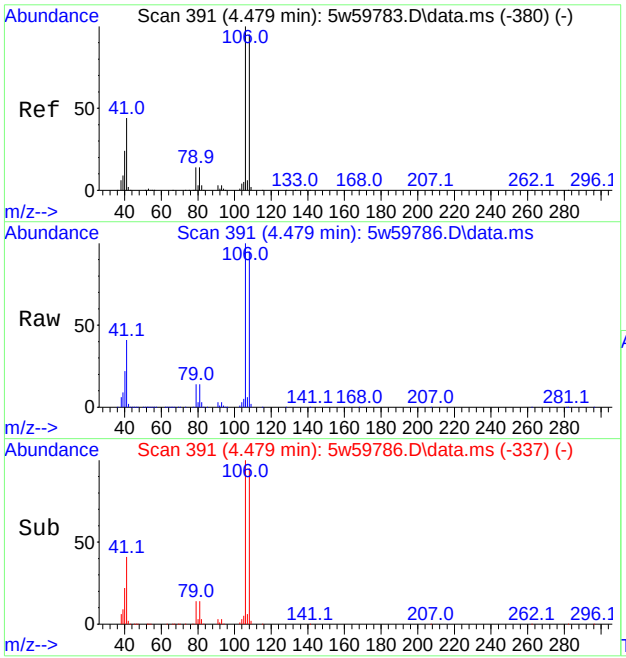


#16
DICHLOROFLUOROMETHANE
Concen: 28.26 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 4344933

Ion	Ratio	Lower	Upper
67	100		
69	33.4	22.7	42.3
47	8.3	5.6	10.4

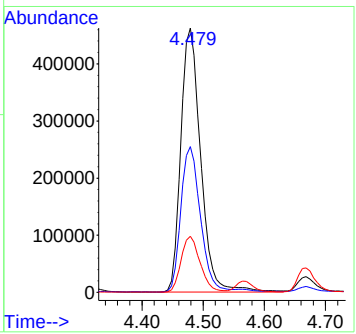


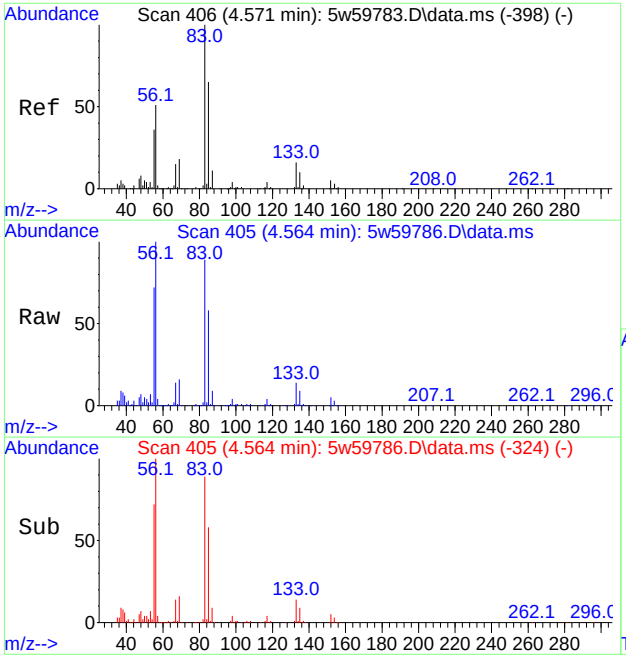


#17
ACETONITRILE
Concen: 24.43 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1047676

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

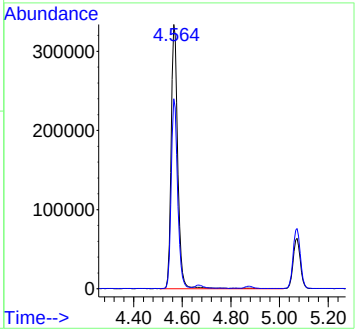


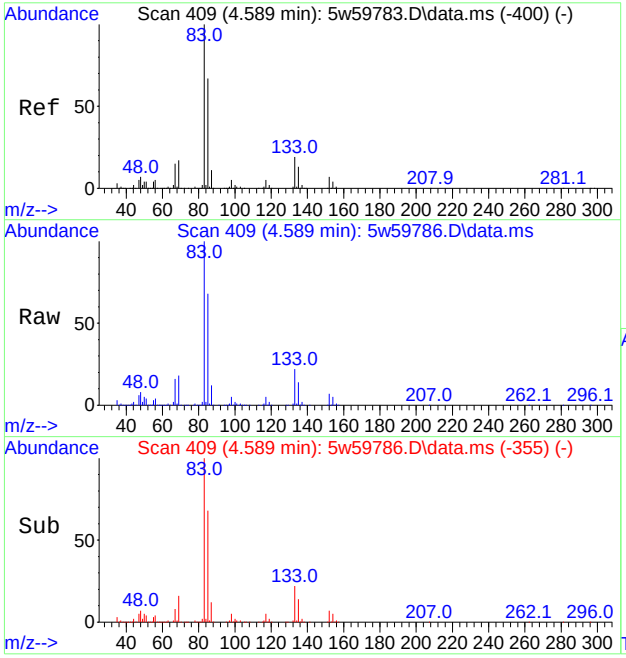


#18
ACROLEIN
Concen: 24.71 PPBV
RT: 4.564 min Scan# 405
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 56 Resp: 630972

Ion	Ratio	Lower	Upper
56	100		
55	70.2	46.6	86.6

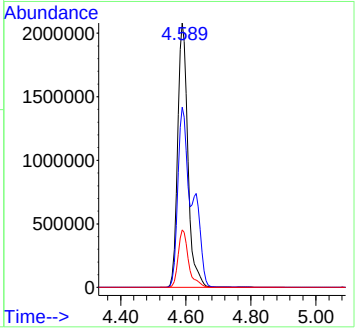


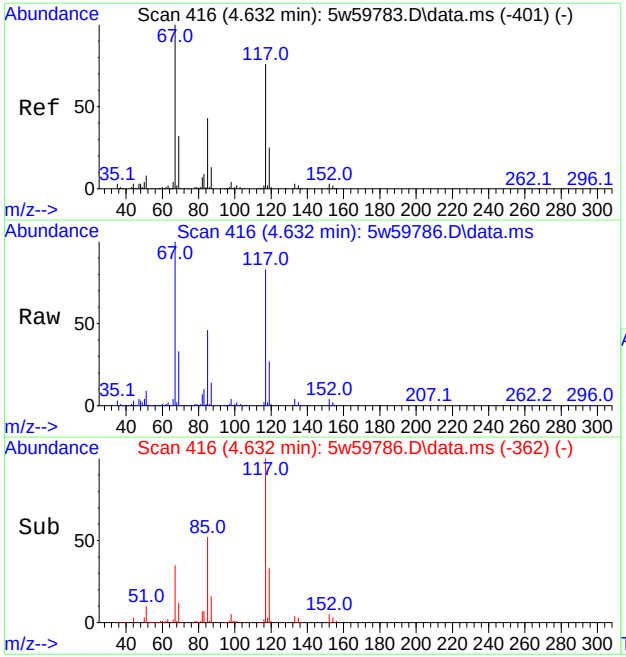


#19
FREON 123
Concen: 27.57 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 4570353

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	22.3	0.0	50.7

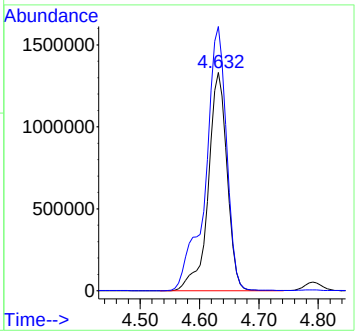


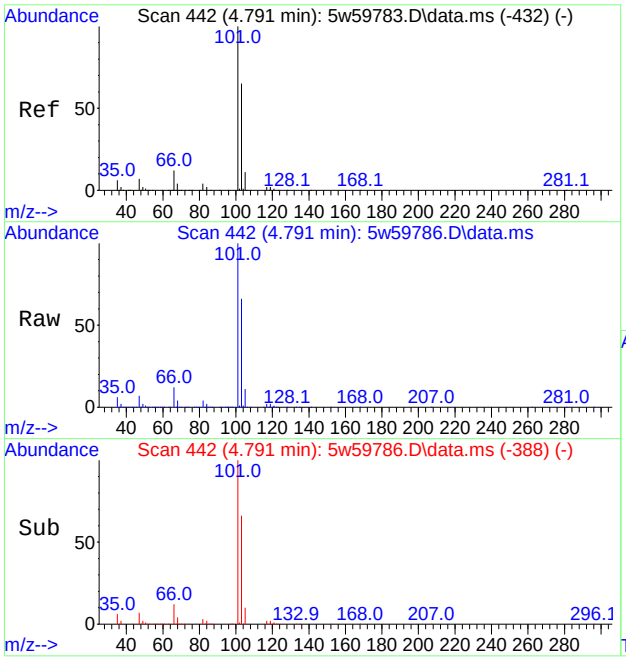


#20
FREON 123A
Concen: 29.40 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 2921341

Ion	Ratio	Lower	Upper
117	100		
67	135.7	114.6	174.6

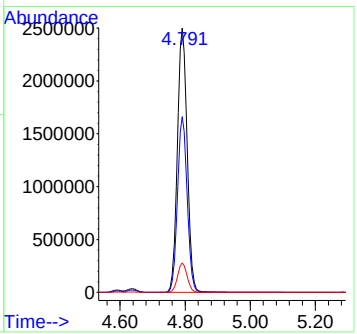


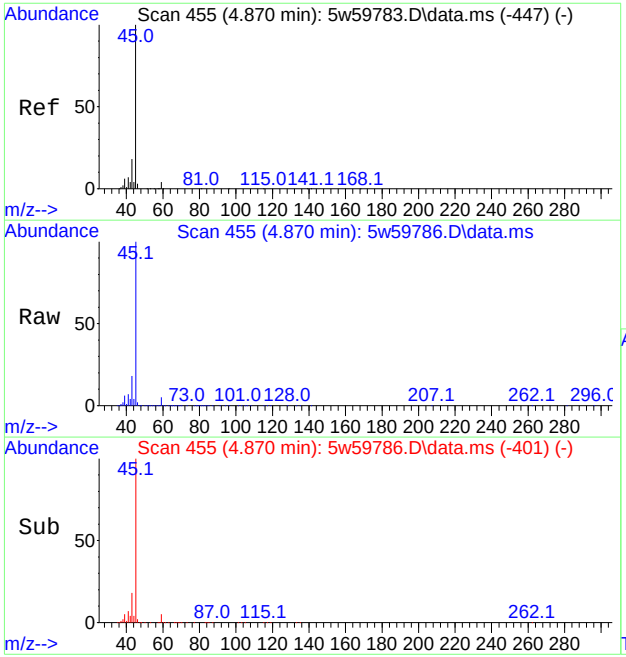


#21
TRICHLOROFLUOROMETHANE
Concen: 26.51 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:101 Resp: 5263086

Ion	Ratio	Lower	Upper
101	100		
103	65.9	35.0	95.0
105	11.0	0.0	40.7

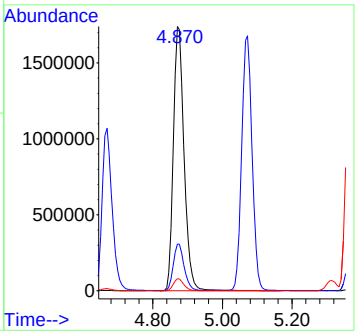


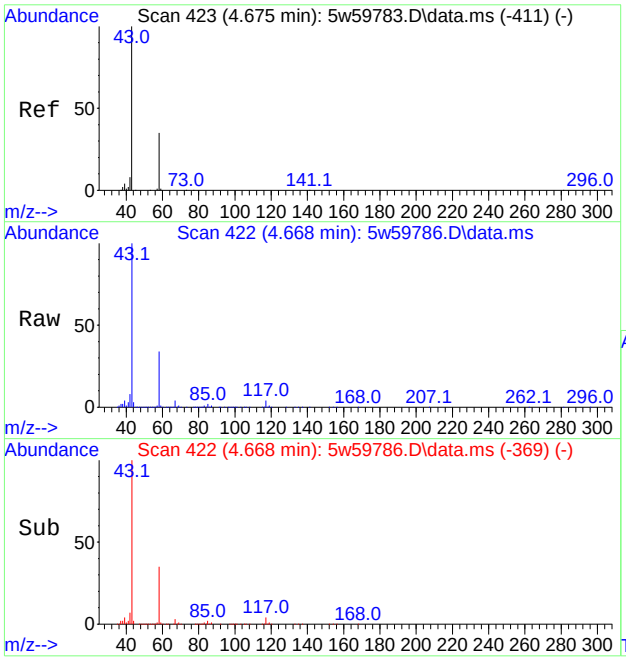


#22
ISOPROPYL ALCOHOL
Concen: 25.25 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 3712437

Ion	Ratio	Lower	Upper
45	100		
43	17.7	0.0	47.8
59	4.6	0.0	34.1

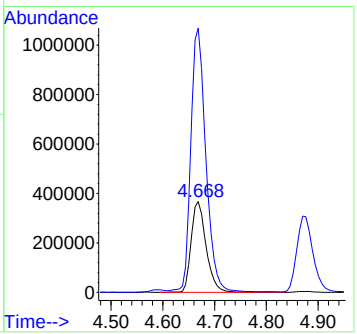


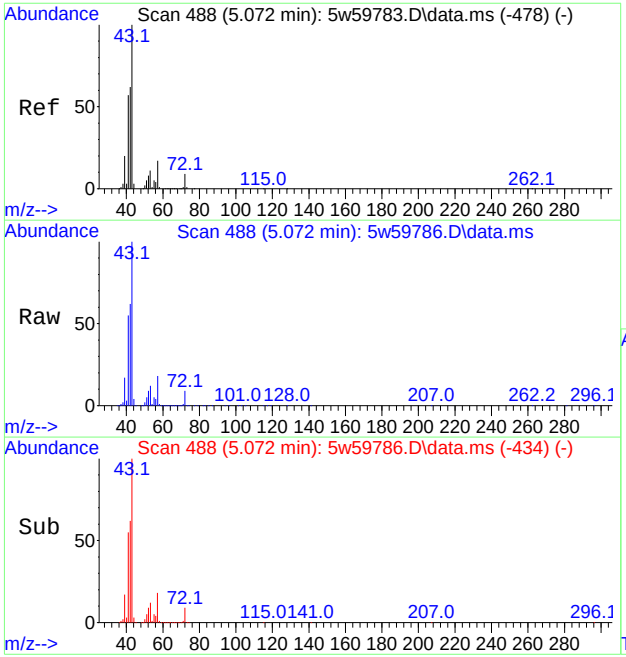


#23
ACETONE
Concen: 25.68 PPBV
RT: 4.668 min Scan# 422
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 738868

Ion	Ratio	Lower	Upper
58	100		
43	289.9	252.3	312.3

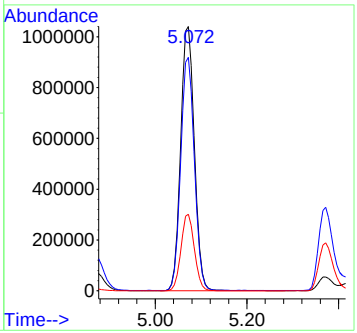


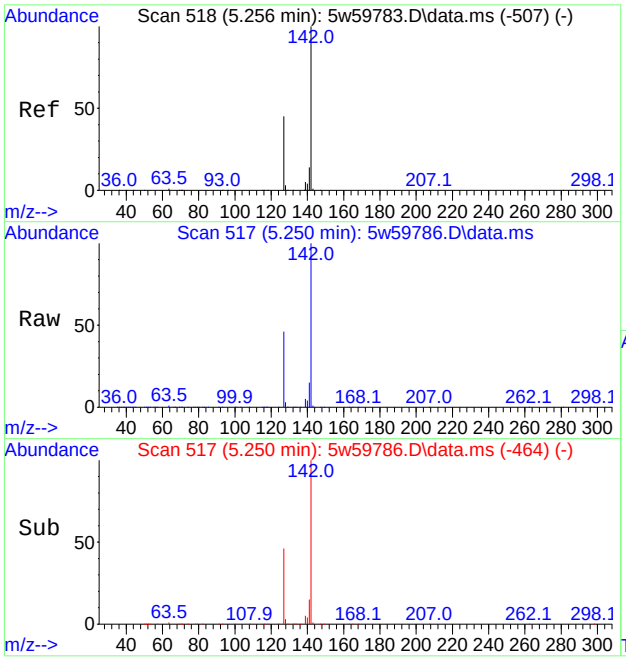


#24
PENTANE
Concen: 29.26 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 42 Resp: 2159289

Ion	Ratio	Lower	Upper
42	100		
41	88.6	62.3	122.3
57	28.5	0.0	57.7

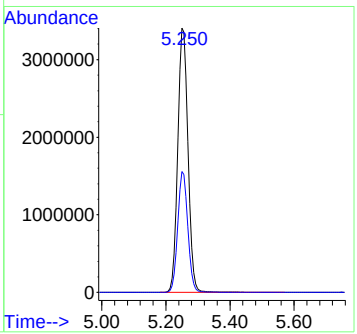


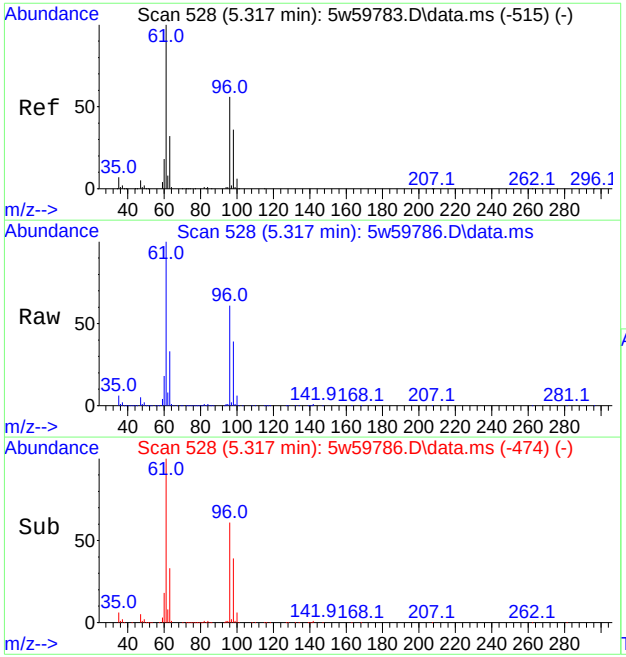


#25
IODOMETHANE
Concen: 35.46 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:142 Resp: 7543155

Ion	Ratio	Lower	Upper
142	100		
127	45.2	16.0	76.0

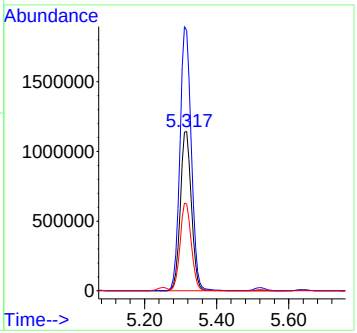


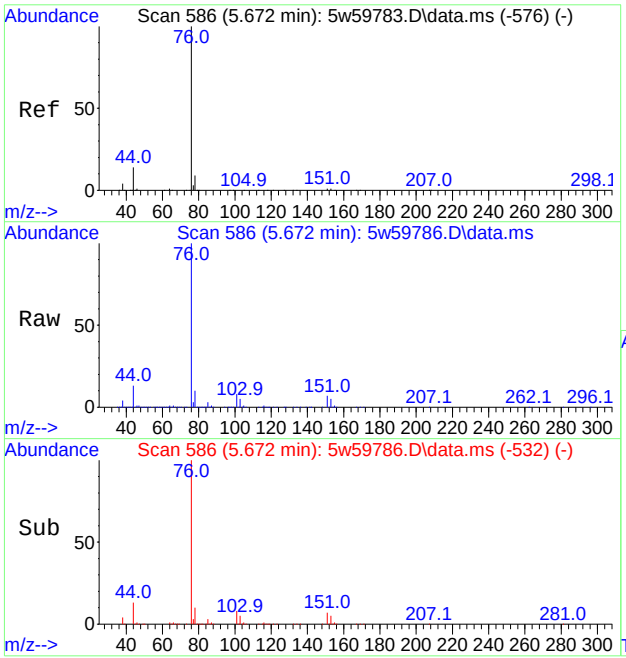


#26
1,1-DICHLOROETHYLENE
Concen: 33.22 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2443503

Ion	Ratio	Lower	Upper
96	100		
61	169.6	148.5	208.5
63	55.5	27.4	87.4

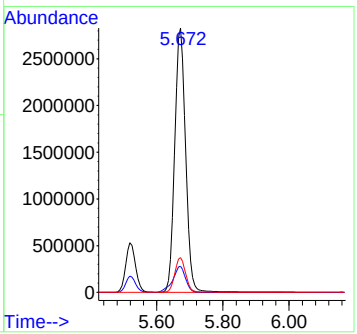


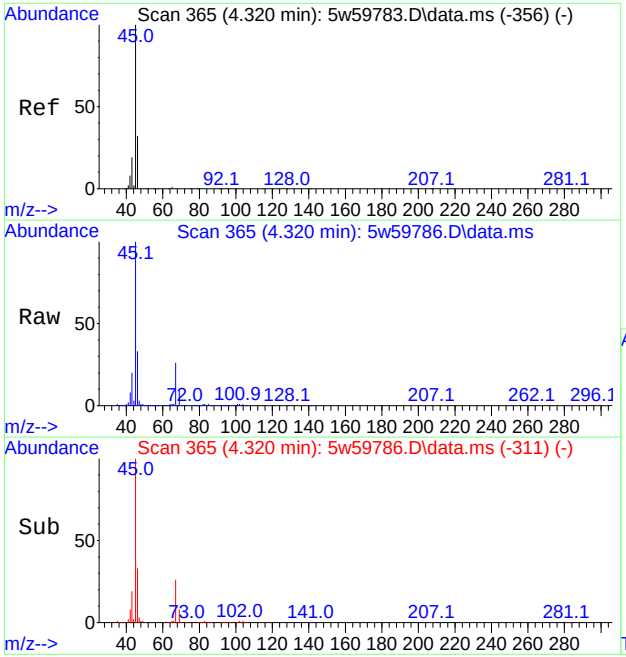


#27
CARBON DISULFIDE
Concen: 33.10 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 6480951

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.1	0.0	44.6

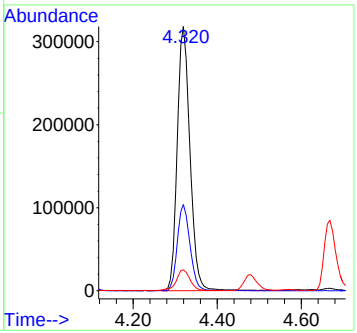


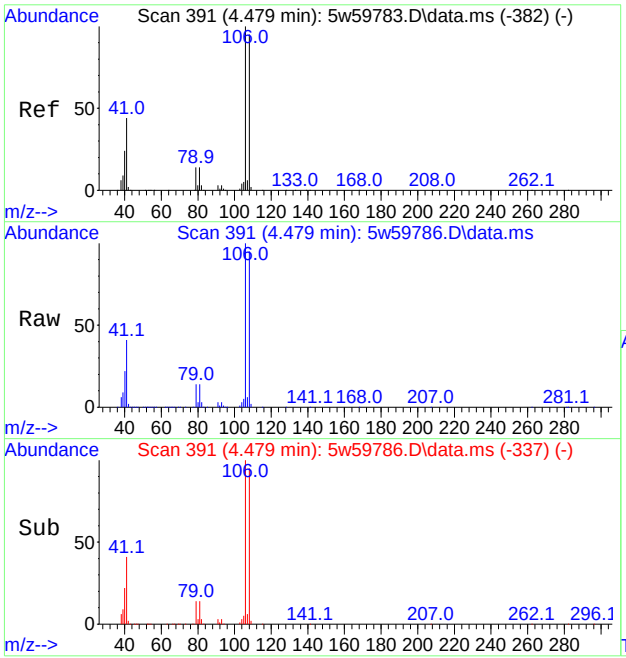


#28
ETHANOL
Concen: 25.13 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 668282

Ion	Ratio	Lower	Upper
45	100		
46	32.6	2.0	62.0
42	8.5	0.0	38.5

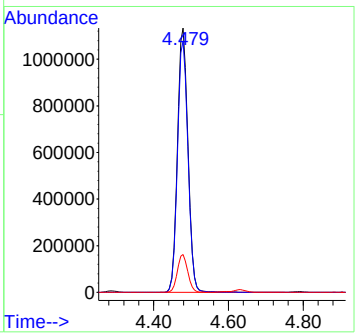


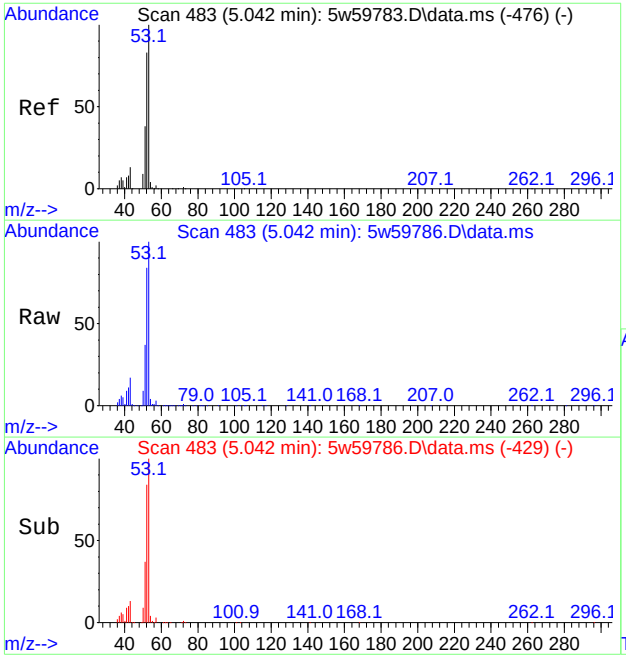


#29
BROMOETHENE
Concen: 32.02 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 2216899

Ion	Ratio	Lower	Upper
106	100		
108	95.4	65.6	125.6
81	14.3	0.0	43.9

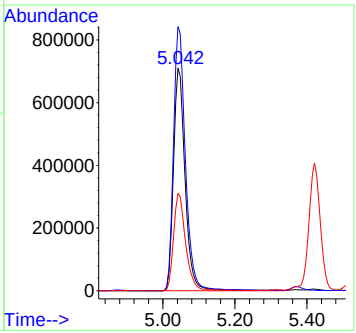


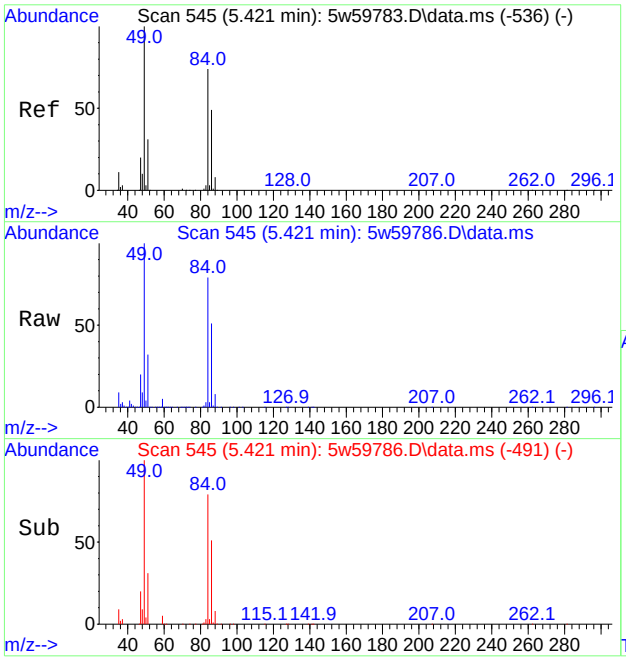


#30
ACRYLONITRILE
Concen: 34.08 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 1601584

Ion	Ratio	Lower	Upper
52	100		
53	121.7	85.8	159.4
51	45.3	32.3	60.1

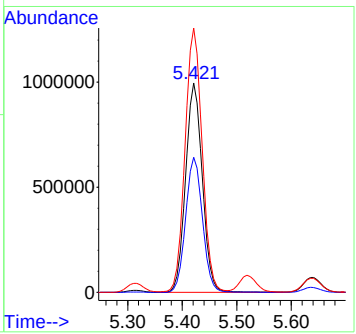


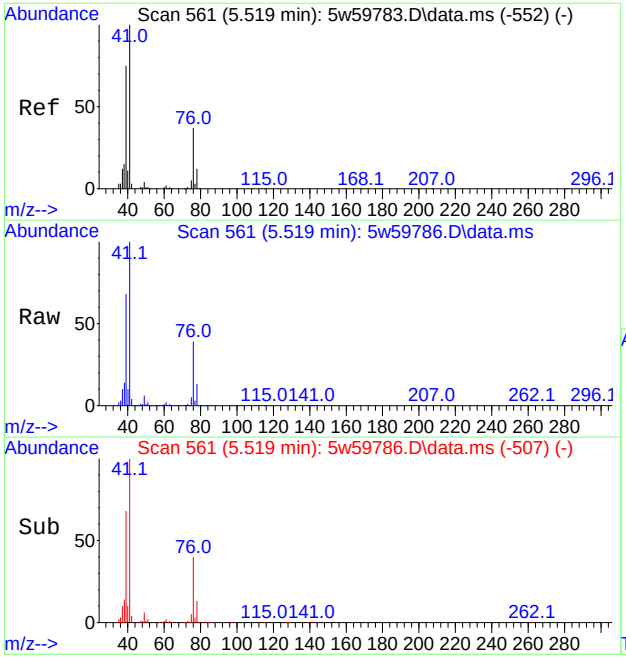


#31
METHYLENE CHLORIDE
Concen: 32.13 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2117266

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	128.7	105.3	165.3

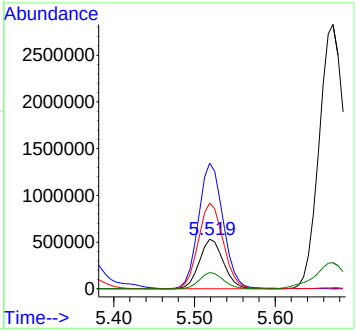


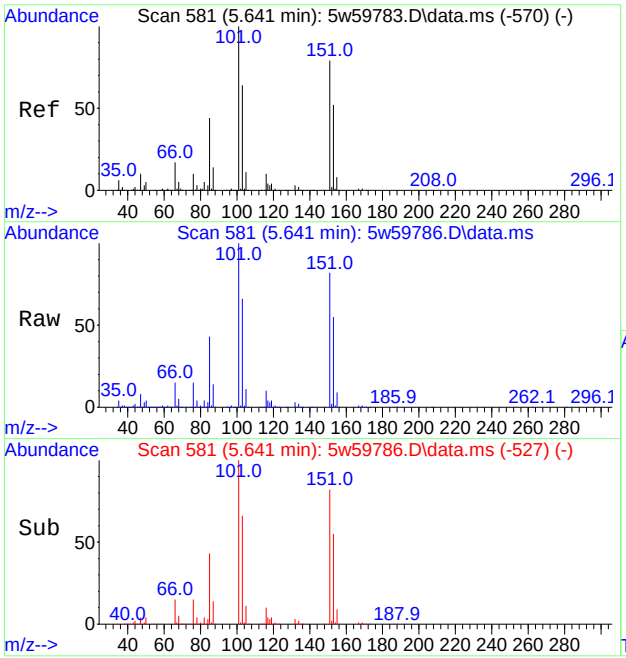


#32
3-CHLOROPROPENE
Concen: 35.87 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 1102190

Ion	Ratio	Lower	Upper
76	100		
41	259.8	240.8	300.8
39	178.8	173.6	233.6
78	32.8	2.8	62.8

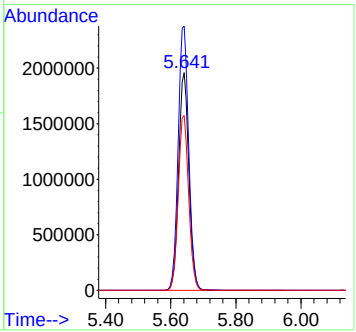


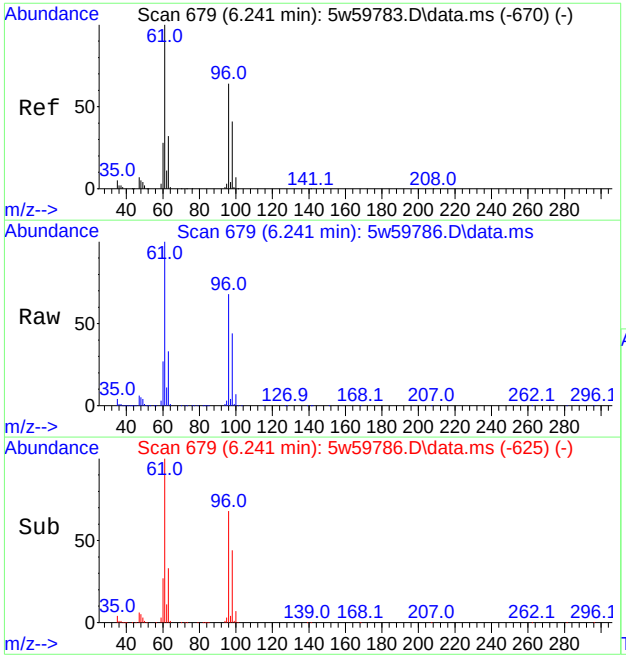


#33
FREON 113
Concen: 33.71 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:151 Resp: 4335347

Ion	Ratio	Lower	Upper
151	100		
101	124.7	97.5	157.5
103	81.6	52.5	112.5

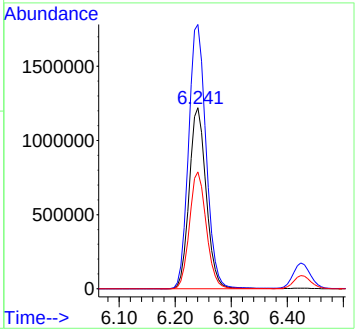


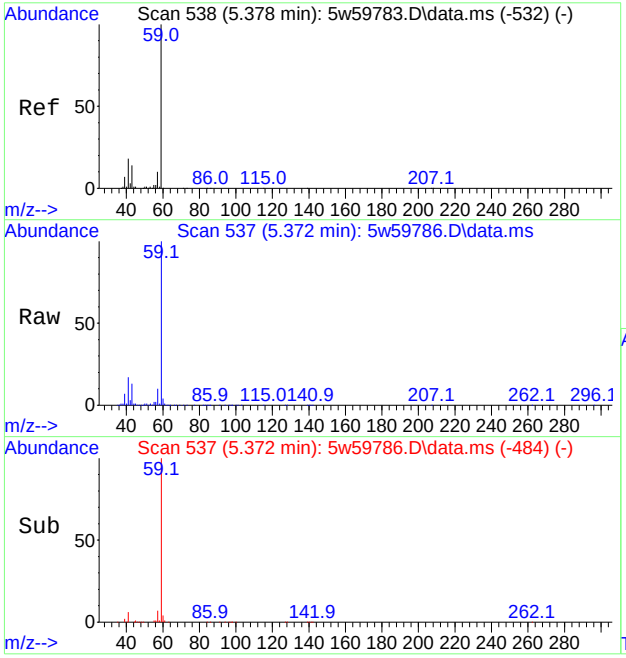


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 33.70 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2566855

Ion	Ratio	Lower	Upper
96	100		
61	150.4	126.4	186.4
98	64.4	34.1	94.1

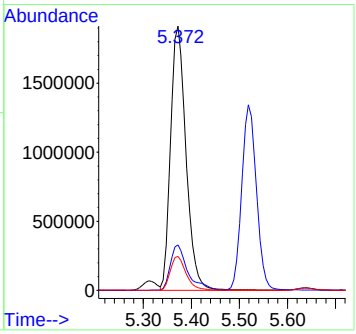


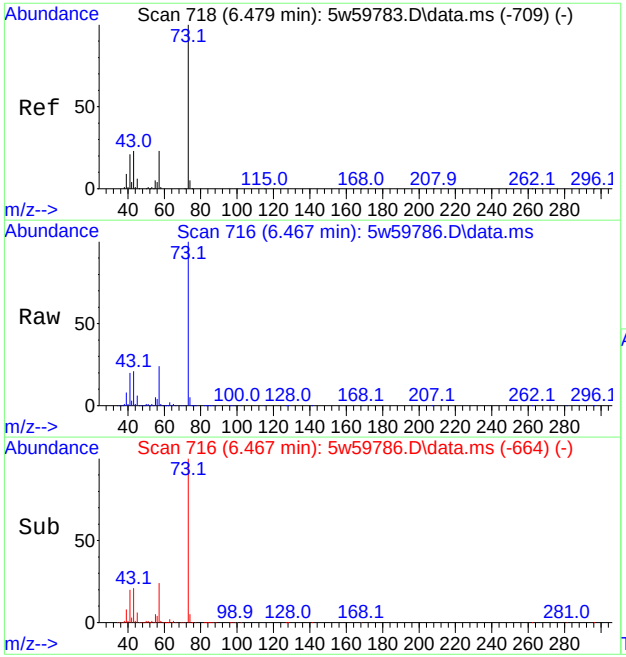


#35
TERTIARY BUTYL ALCOHOL
Concen: 27.79 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 4270952

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.2	0.0	44.1

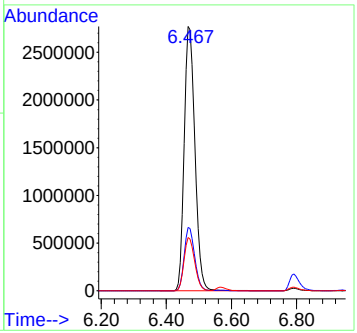


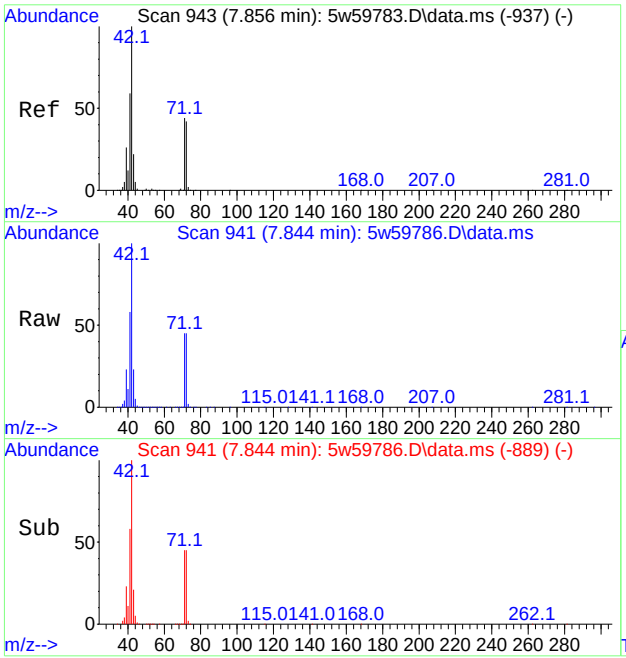


#36
METHYL TERTIARY BUTYL ETHER
Concen: 33.80 PPBV
RT: 6.467 min Scan# 716
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 73 Resp: 6337595

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	20.0	0.0	50.6

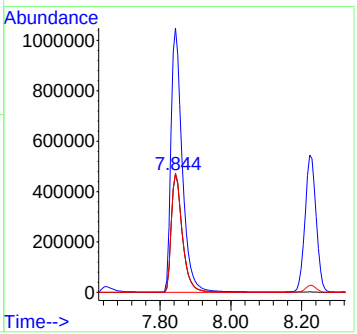


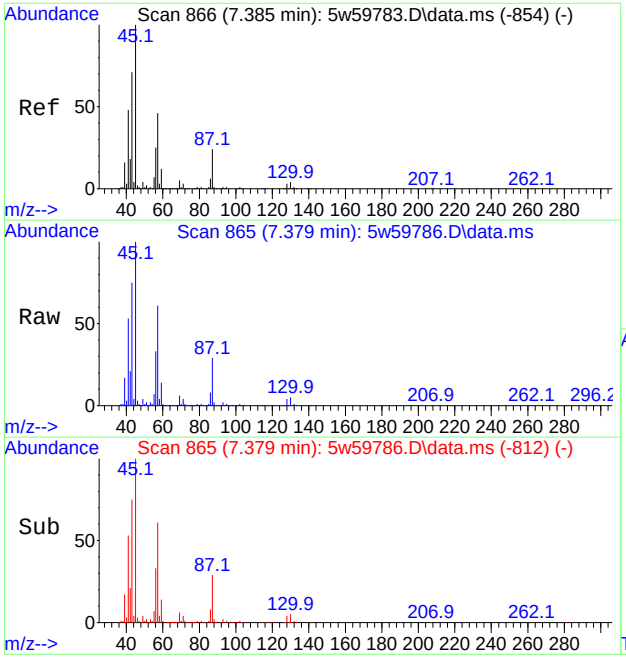


#37
TETRAHYDROFURAN
Concen: 37.42 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1023793

Ion	Ratio	Lower	Upper
72	100		
42	225.7	202.4	262.4
71	100.8	71.1	131.1

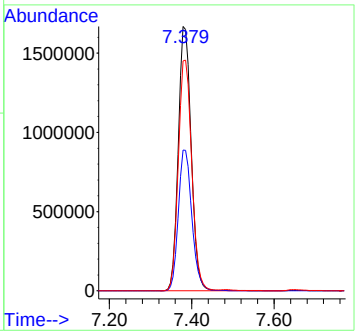


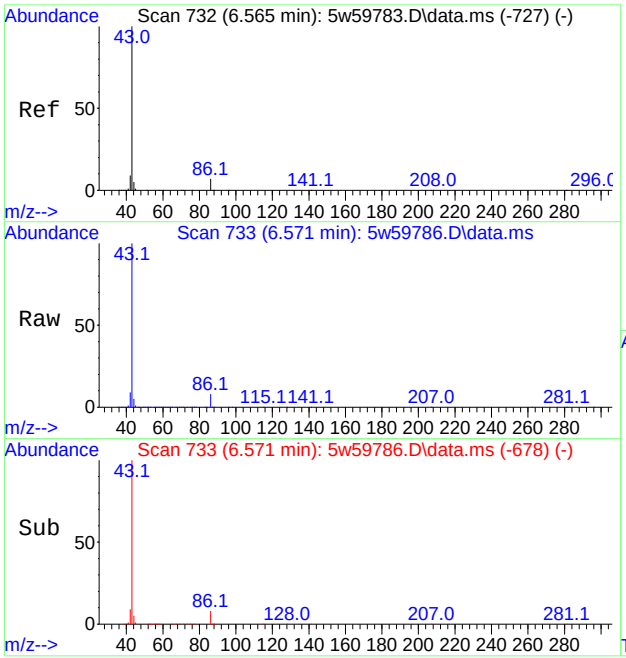


#38
HEXANE
Concen: 34.89 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 3623516

Ion	Ratio	Lower	Upper
57	100		
56	56.2	25.9	85.9
41	91.2	74.7	134.7

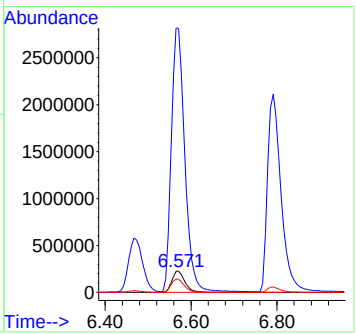


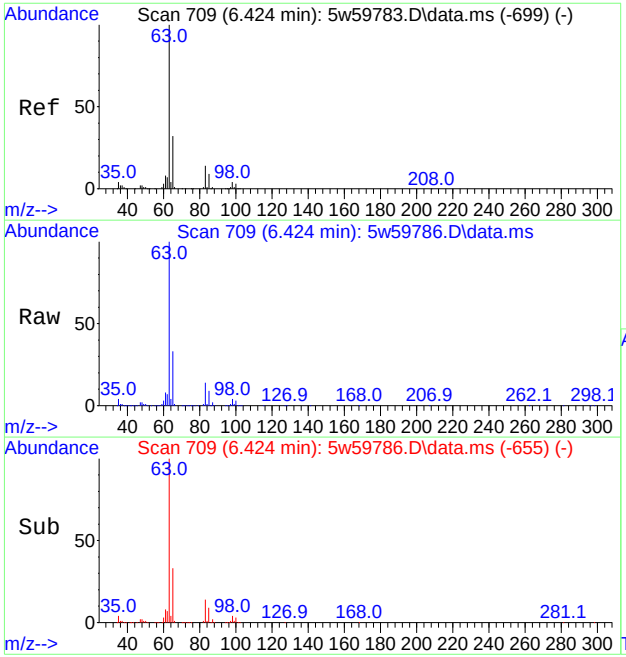


#39
VINYL ACETATE
Concen: 39.37 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 86 Resp: 477066

Ion	Ratio	Lower	Upper
86	100		
43	1285.9	1379.7	1439.7#
44	63.4	36.9	96.9

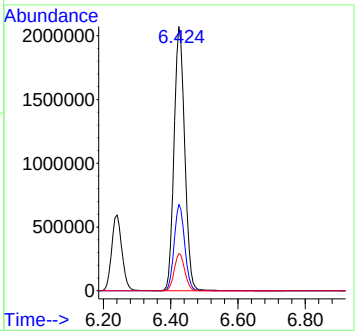


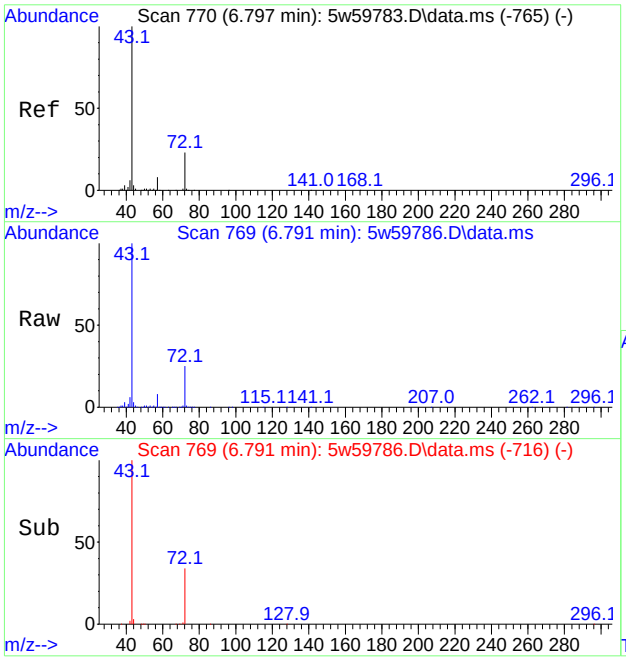


#40
1,1-DICHLOROETHANE
Concen: 33.30 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 4545260

Ion	Ratio	Lower	Upper
63	100		
65	32.4	1.7	61.7
83	13.9	0.0	43.5

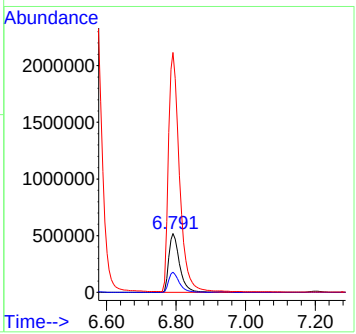


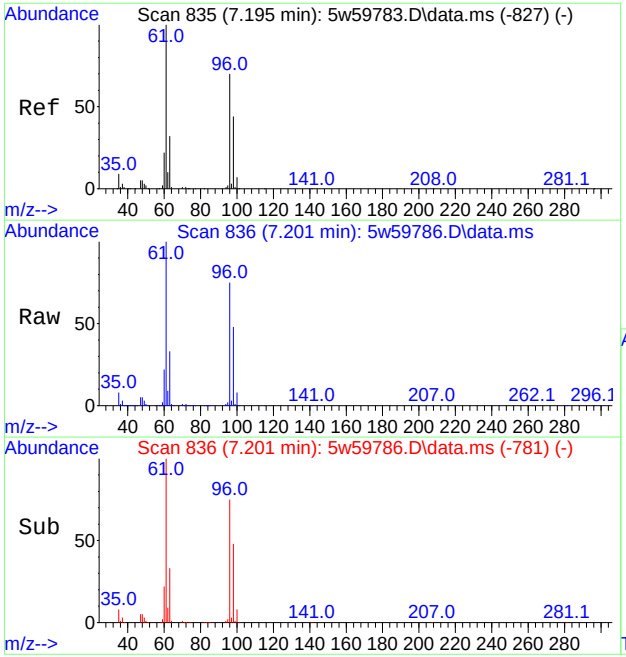


#41
METHYL ETHYL KETONE
Concen: 39.33 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1116320

Ion	Ratio	Lower	Upper
72	100		
57	34.3	4.8	64.8
43	407.4	415.9	475.9#

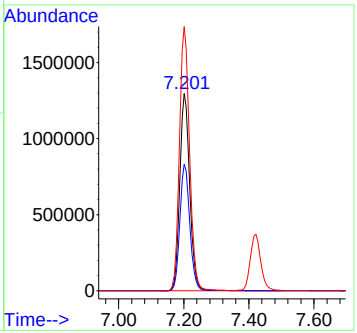


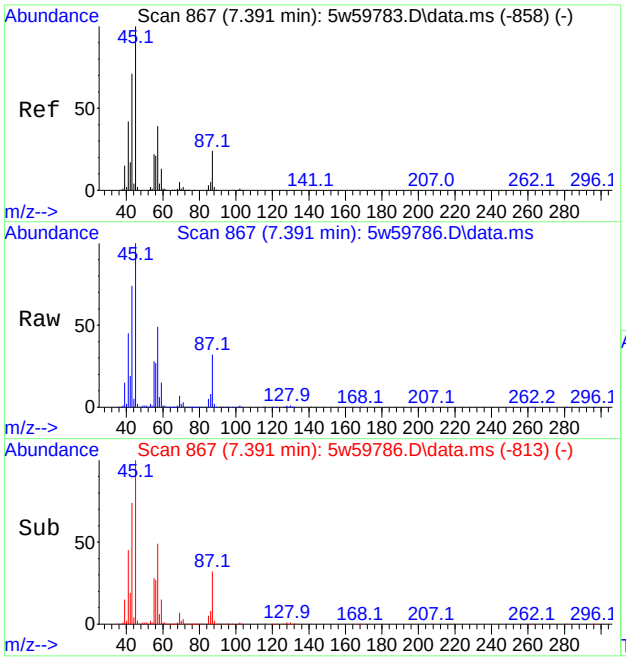


#42
cis-1,2-DICHLOROETHYLENE
Concen: 35.23 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2772689

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	136.2	111.5	171.5

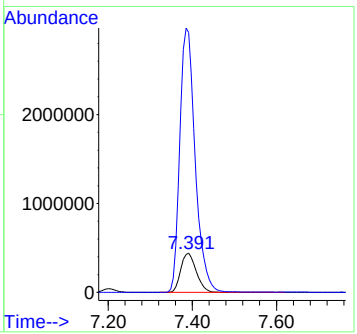


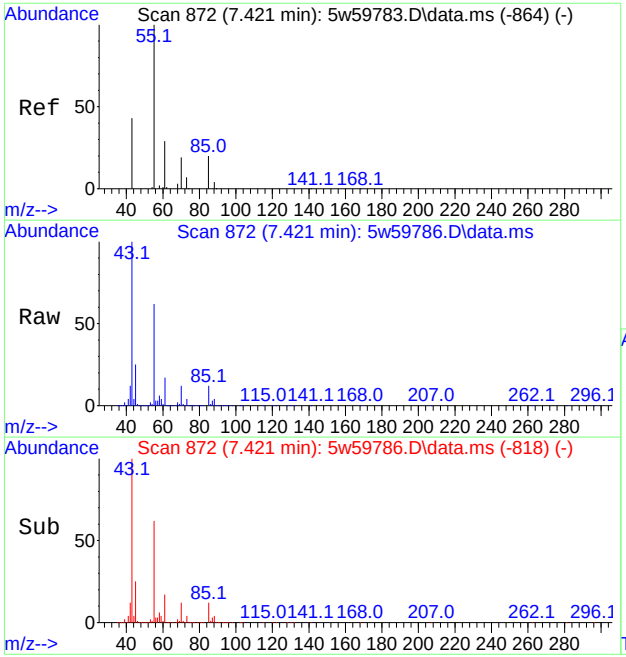


#43
DIISOPROPYL ETHER
Concen: 38.69 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 1134199

Ion	Ratio	Lower	Upper
59	100		
45	668.8	720.9	780.9#

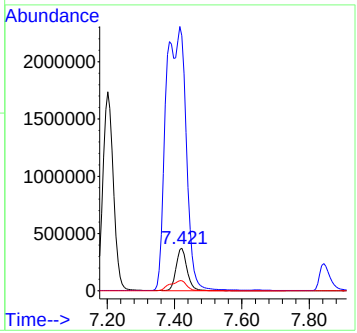


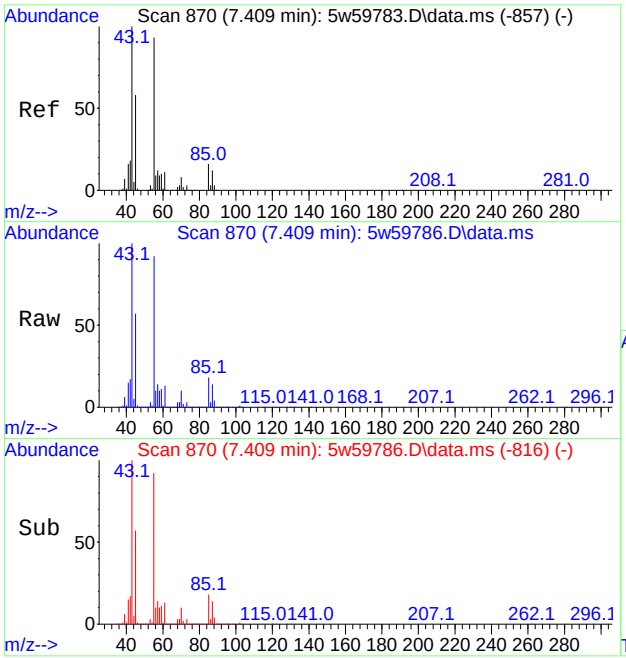


#44
ETHYL ACETATE
Concen: 34.91 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 61 Resp: 845012

Ion	Ratio	Lower	Upper
61	100		
43	618.0	560.5	620.5
88	37.0	4.5	64.5

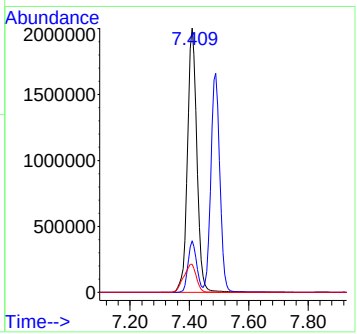


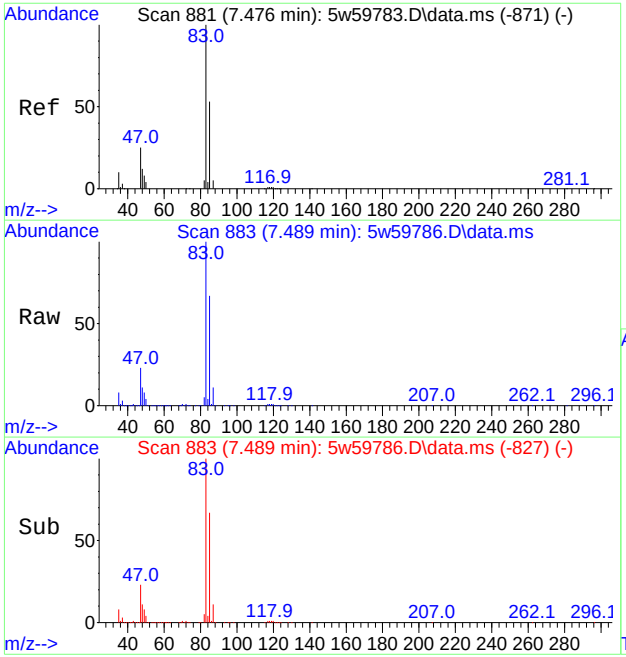


#45
METHYL ACRYLATE
Concen: 33.33 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 4442118

Ion	Ratio	Lower	Upper
55	100		
85	17.9	10.9	20.3
58	14.3	9.4	17.6

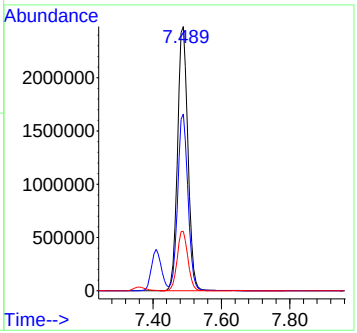


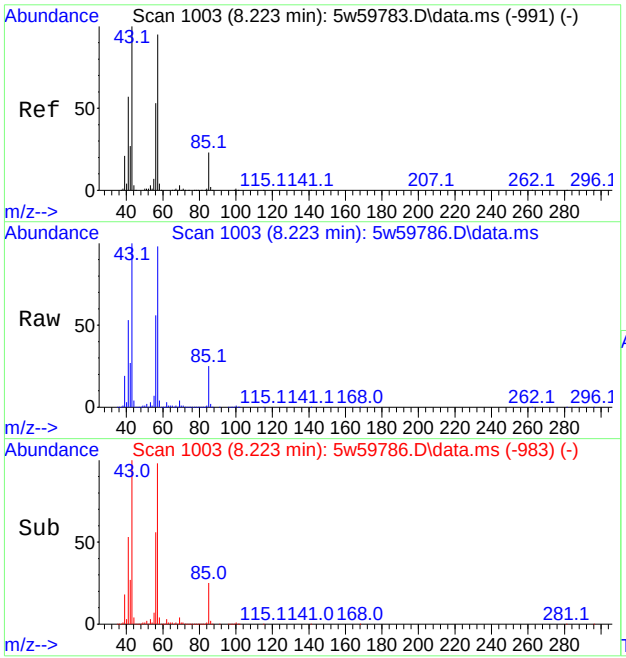


#46
CHLOROFORM
Concen: 33.15 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 5265891

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.6	95.6
47	23.1	0.0	55.2

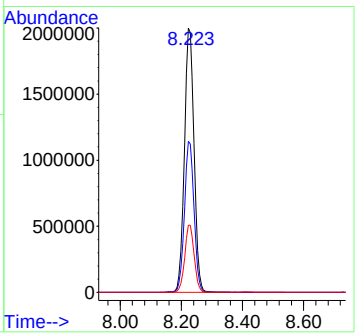


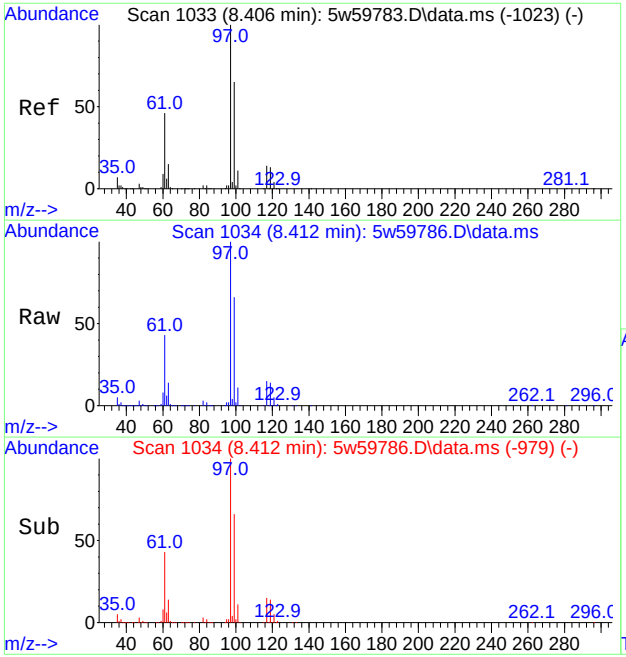


#47
2,4-DIMETHYLPENTANE
Concen: 35.95 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 4372372

Ion	Ratio	Lower	Upper
57	100		
56	57.3	26.5	86.5
85	25.1	0.0	53.8

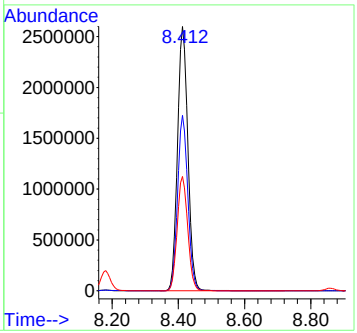


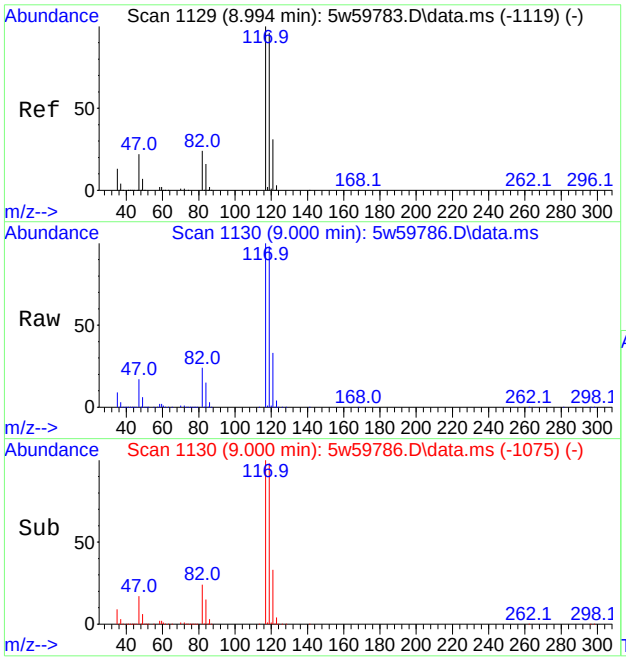


#48
1,1,1-TRICHLOROETHANE
Concen: 33.44 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 97 Resp: 5674011

Ion	Ratio	Lower	Upper
97	100		
99	65.7	34.8	94.8
61	43.9	15.8	75.8

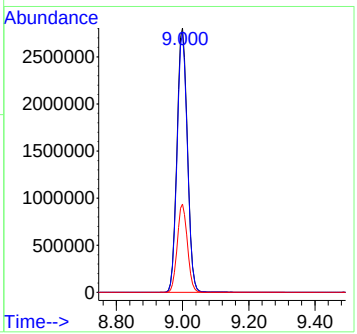


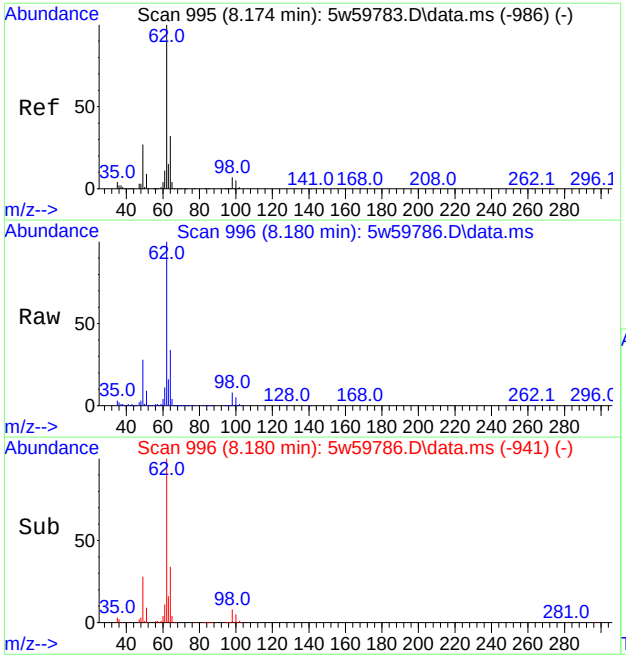


#49
CARBON TETRACHLORIDE
Concen: 33.09 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 6150579

Ion	Ratio	Lower	Upper
117	100		
119	97.1	66.9	126.9
121	32.6	1.3	61.3

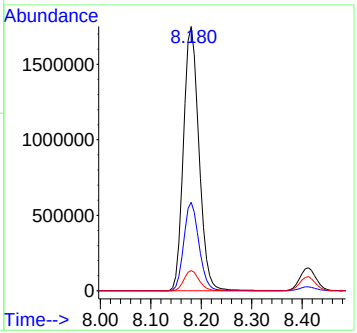


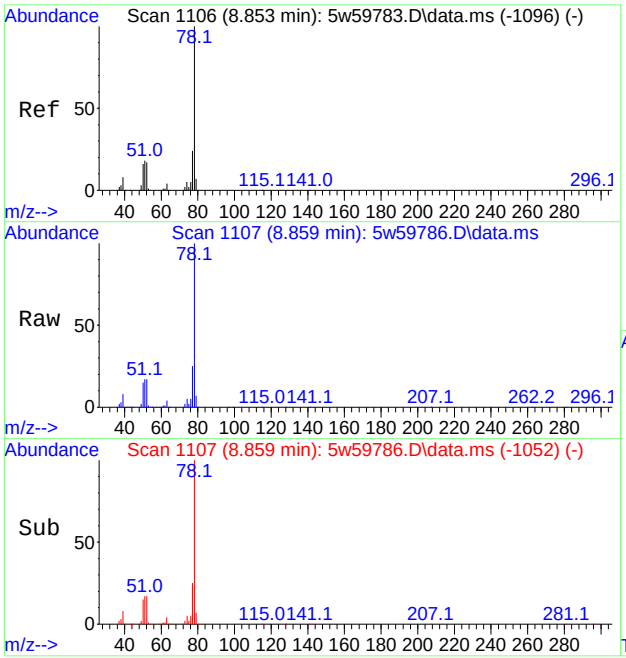


#50
1,2-DICHLOROETHANE
Concen: 33.65 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 3745660

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	7.5	0.0	36.9

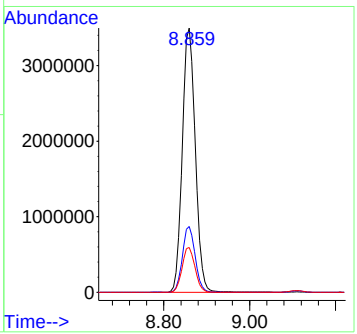


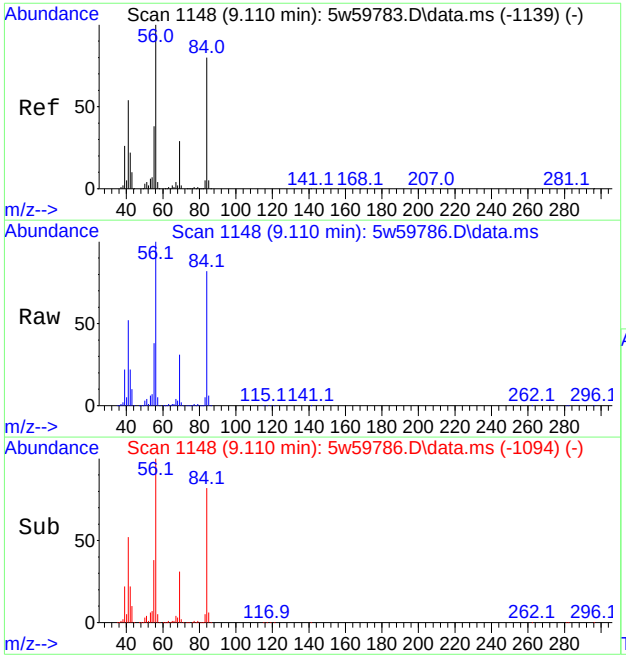


#52
BENZENE
Concen: 40.36 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 78 Resp: 7354311

Ion	Ratio	Lower	Upper
78	100		
77	24.5	0.0	53.8
52	17.0	0.0	46.9

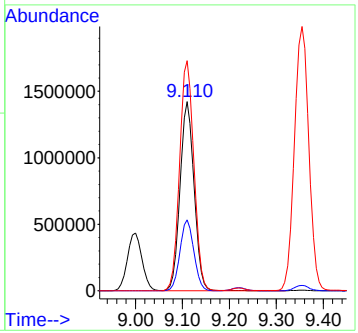


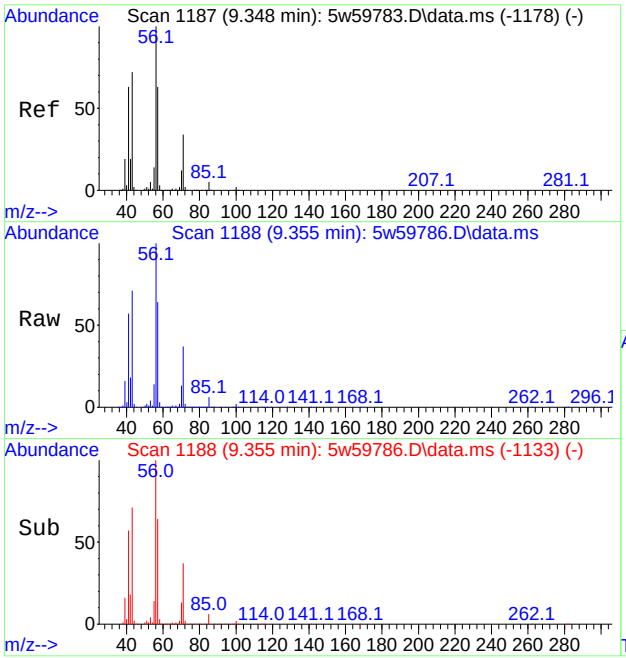


#53
CYCLOHEXANE
Concen: 40.67 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2949070

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	124.0	98.2	158.2

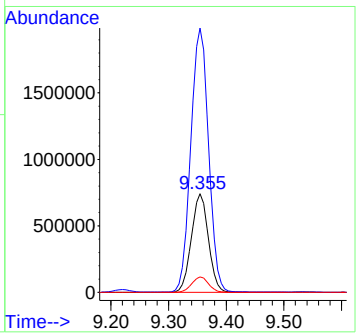


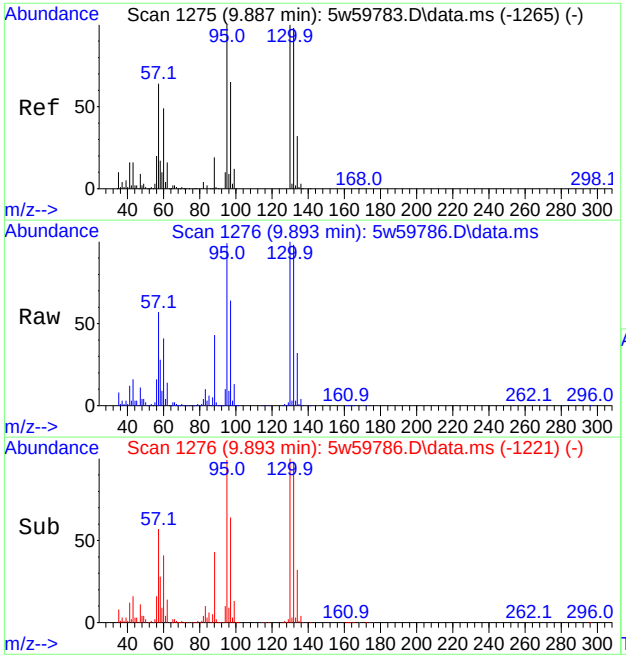


#54
2,3-DIMETHYLPENTANE
Concen: 42.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 71 Resp: 1522391

Ion	Ratio	Lower	Upper
71	100		
56	280.1	264.6	324.6
85	15.6	0.0	45.3

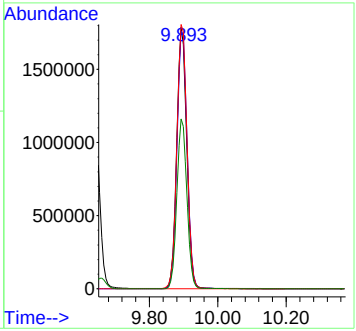


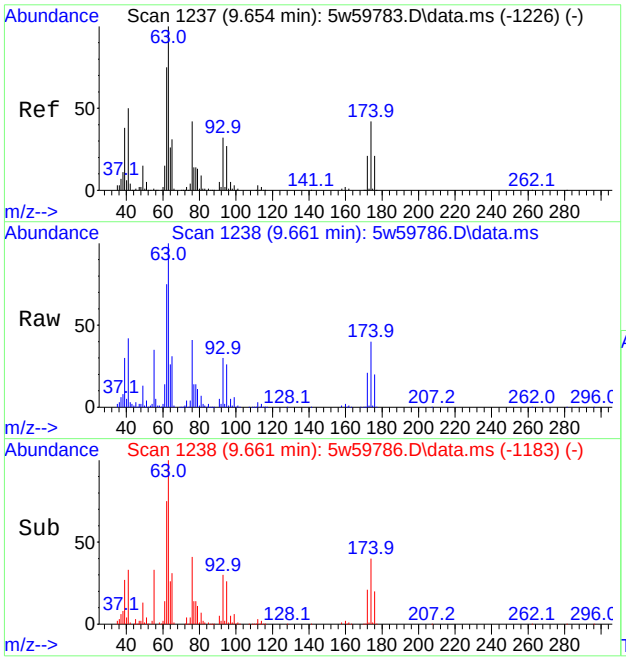


#55
TRICHLOROETHYLENE
Concen: 37.53 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 95 Resp: 3632086

Ion	Ratio	Lower	Upper
95	100		
132	100.6	69.0	129.0
130	103.1	70.6	130.6
97	65.4	34.6	94.6

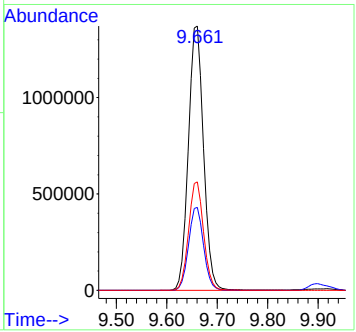


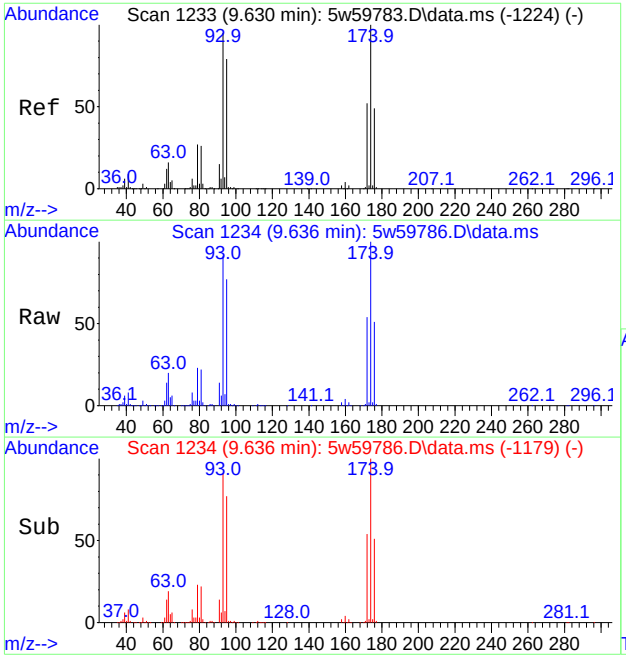


#56
1,2-DICHLOROPROPANE
Concen: 37.03 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 2868397

Ion	Ratio	Lower	Upper
63	100		
65	31.3	0.5	60.5
76	40.8	11.5	71.5

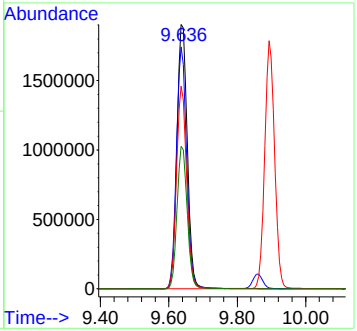


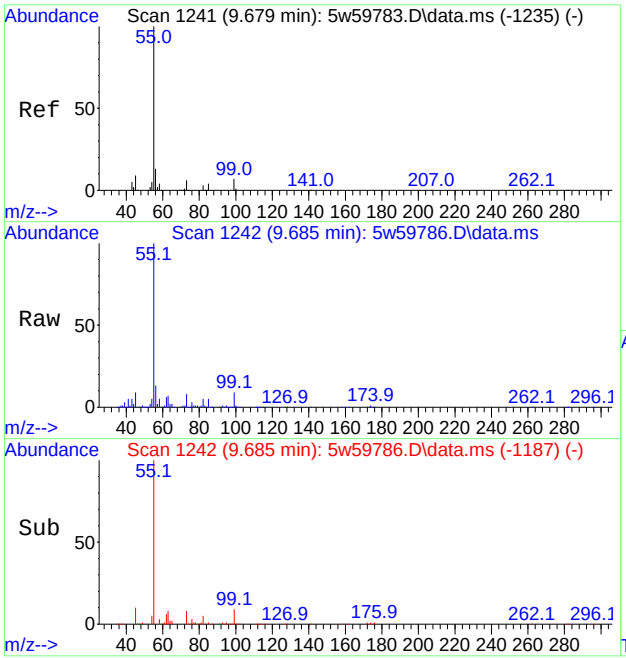


#57
DIBROMOMETHANE
Concen: 38.37 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:174 Resp: 4006214

Ion	Ratio	Lower	Upper
174	100		
93	90.3	65.0	120.6
95	75.8	54.5	101.1
172	53.2	36.3	67.5

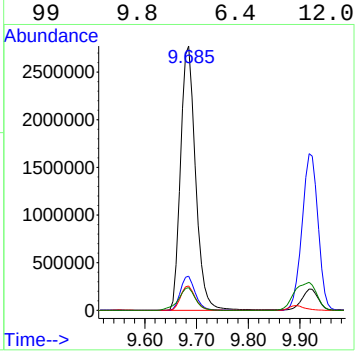


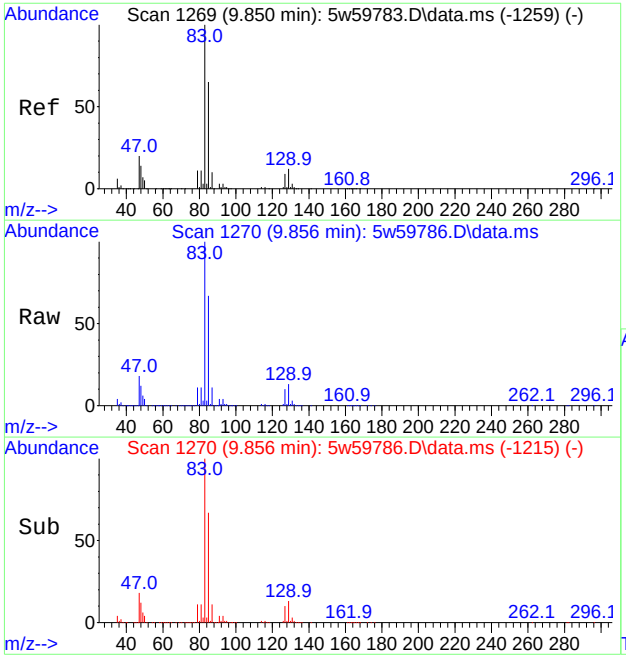


#58
ETHYL ACRYLATE
Concen: 37.54 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 5610538

Ion	Ratio	Lower	Upper
55	100		
56	12.7	8.6	16.0
45	9.0	6.6	12.2
99	9.8	6.4	12.0

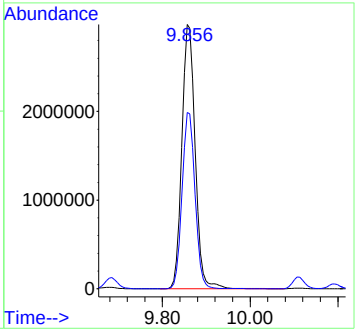


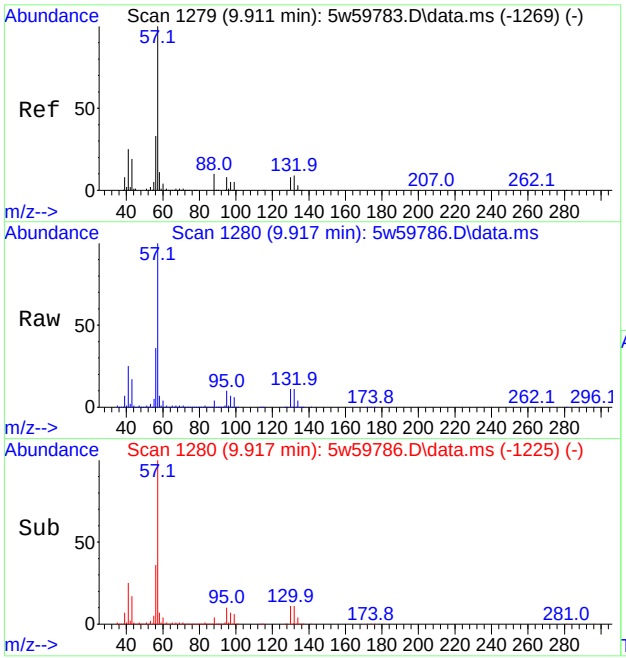


#59
BROMODICHLOROMETHANE
Concen: 37.04 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6264555

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

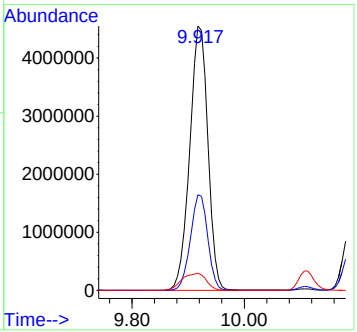


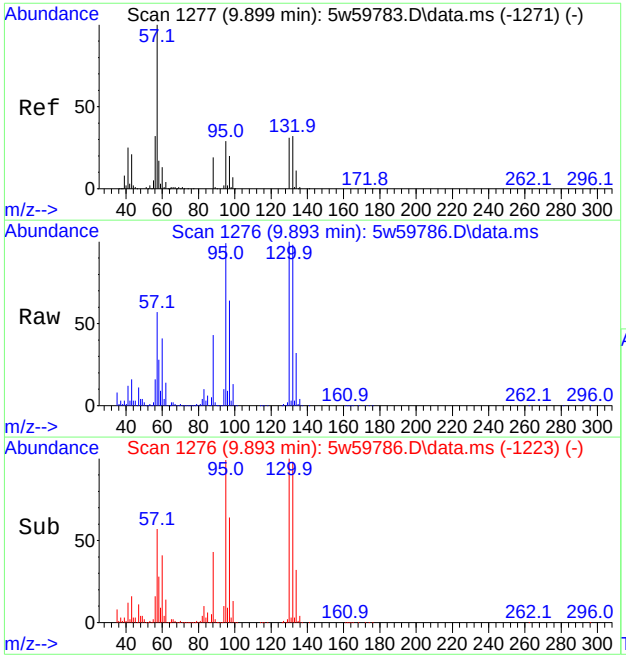


#60
2,2,4-TRIMETHYLPENTANE
Concen: 34.27 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp:10265949

Ion	Ratio	Lower	Upper
57	100		
56	34.3	2.5	62.5
99	8.6	0.0	37.3

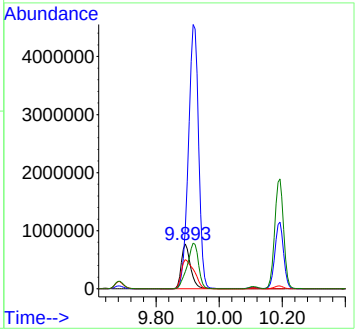


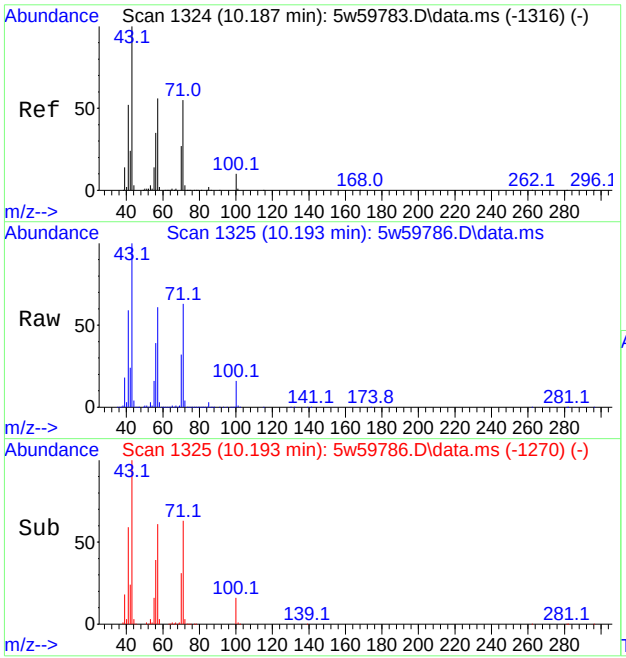


#61
1,4-DIOXANE
Concen: 39.31 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 88 Resp: 1571741

Ion	Ratio	Lower	Upper
88	100		
57	134.3	494.2	554.2#
58	65.0	58.9	118.9
43	37.9	78.3	138.3#

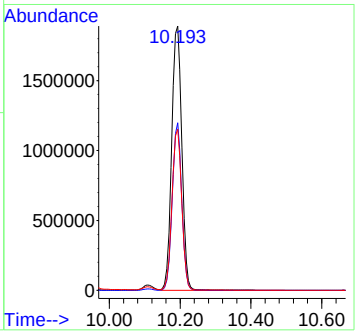


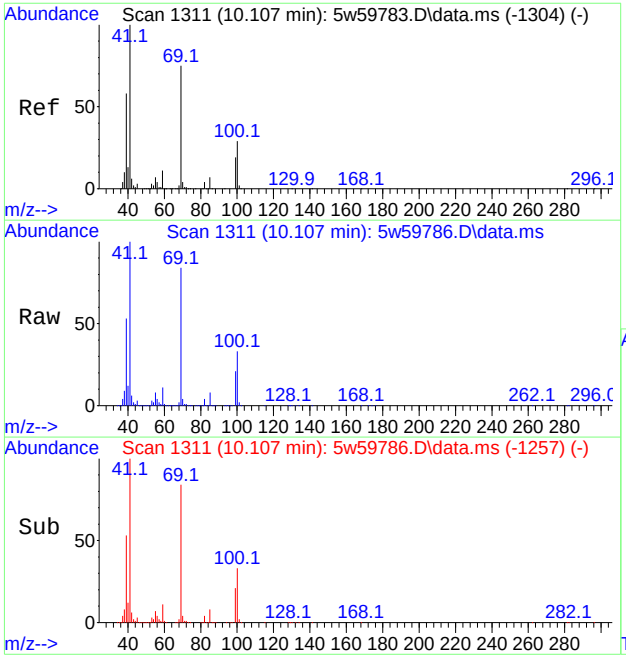


#62
HEPTANE
Concen: 36.15 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 3734901

Ion	Ratio	Lower	Upper
43	100		
71	59.6	24.5	84.5
57	59.3	26.2	86.2

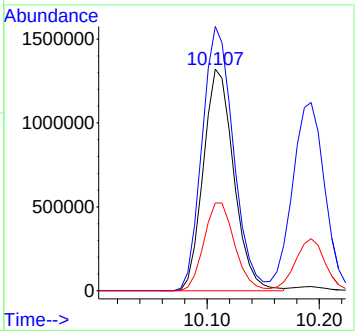


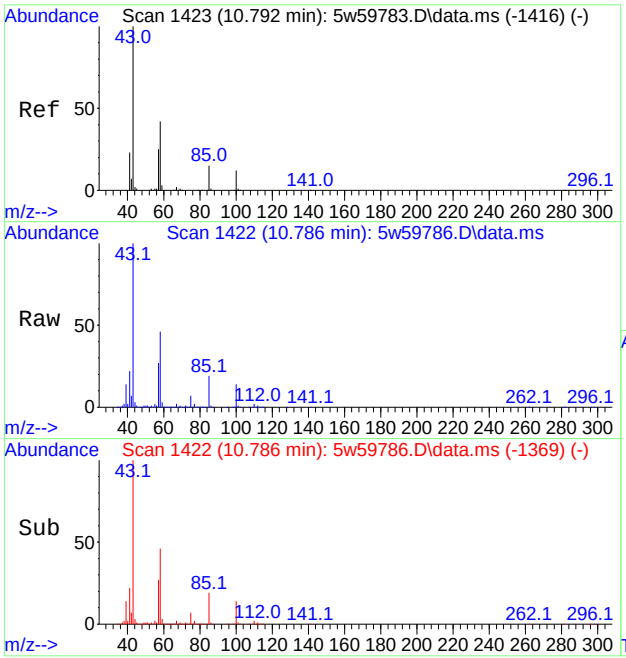


#63
METHYL METHACRYLATE
Concen: 41.16 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 2494133

Ion	Ratio	Lower	Upper
69	100		
41	121.8	95.3	155.3
100	40.1	6.3	66.3

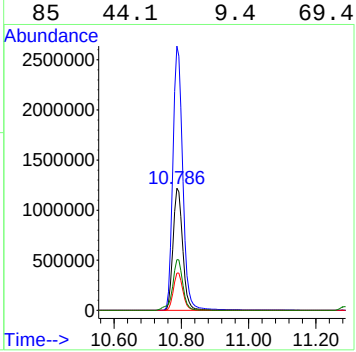


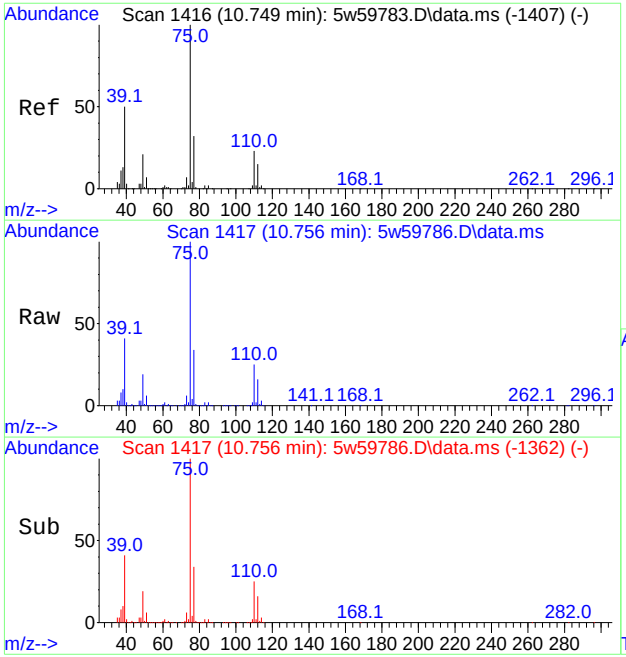


#64
METHYL ISOBUTYL KETONE
Concen: 38.84 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 2440543

Ion	Ratio	Lower	Upper
58	100		
43	220.5	209.2	269.2
100	30.5	0.0	58.8
85	44.1	9.4	69.4

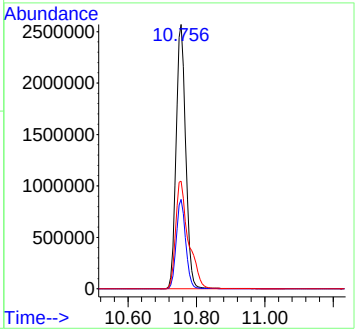


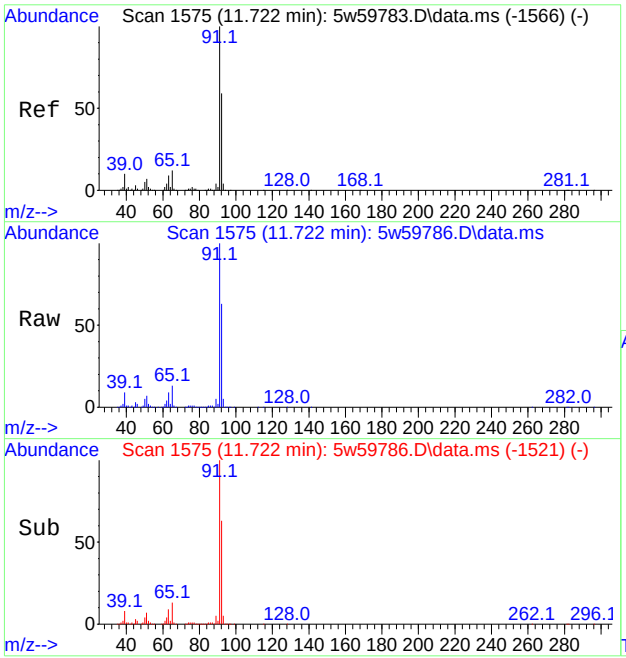


#65
cis-1,3-DICHLOROPROPENE
Concen: 41.46 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5041121

Ion	Ratio	Lower	Upper
75	100		
77	33.3	2.2	62.2
39	54.5	34.3	94.3

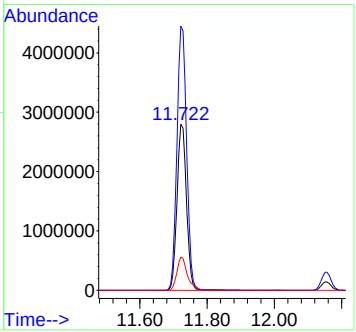


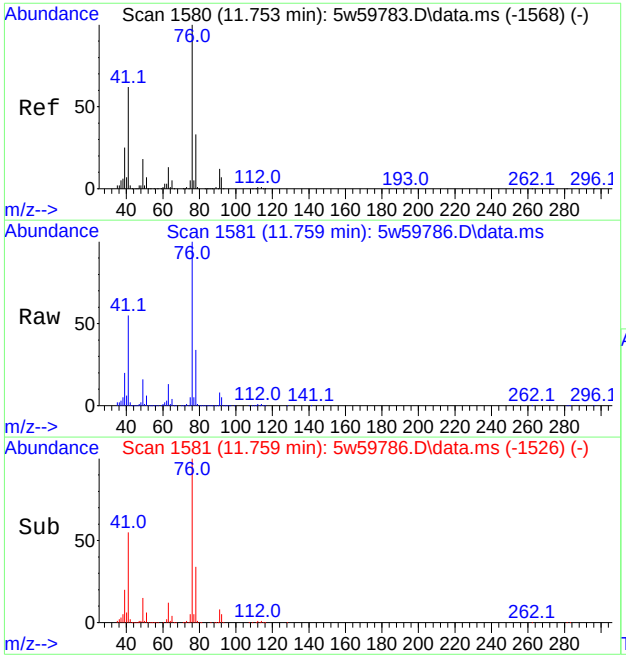


#66
TOLUENE
Concen: 41.16 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 92 Resp: 5480196

Ion	Ratio	Lower	Upper
92	100		
91	163.0	140.1	200.1
65	22.6	0.0	53.1

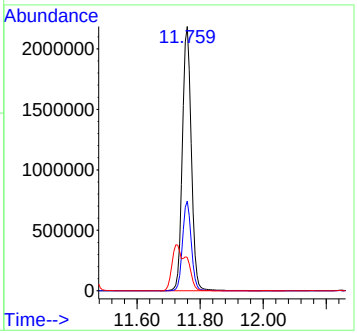


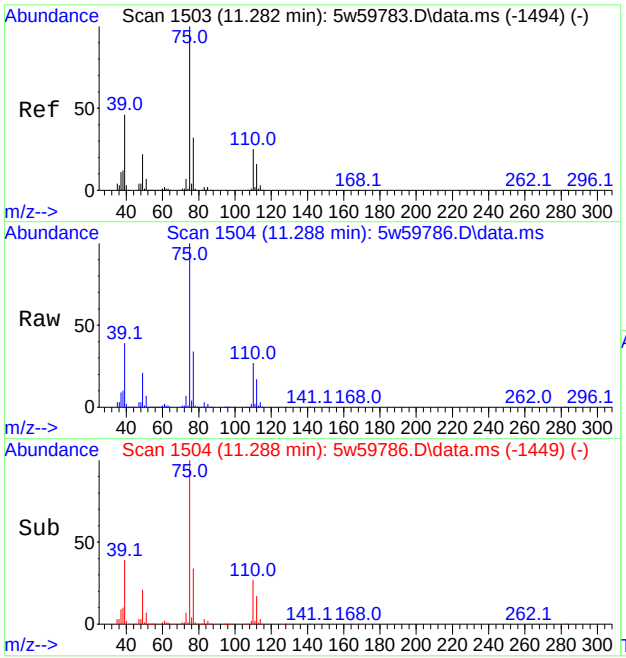


#67
1,3-DICHLOROPROPANE
Concen: 38.74 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 4271872

Ion	Ratio	Lower	Upper
76	100		
78	33.4	23.2	43.0
63	11.6	7.1	13.1

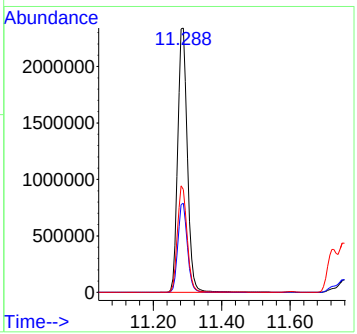


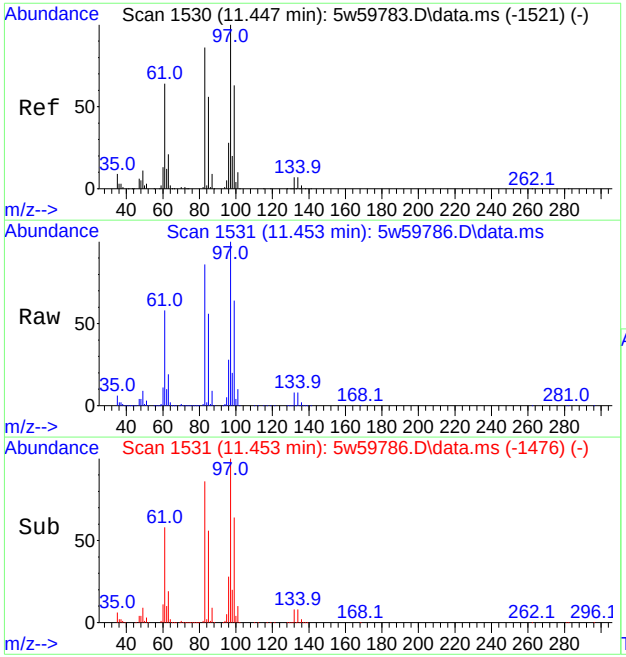


#68
trans-1,3-DICHLOROPROPENE
Concen: 40.93 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 4565890

Ion	Ratio	Lower	Upper
75	100		
77	33.1	1.6	61.6
39	40.9	16.1	76.1

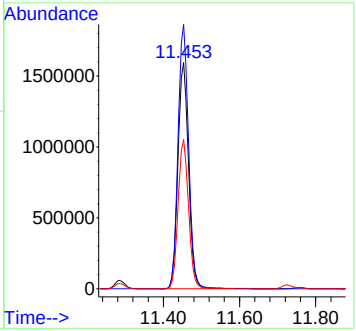


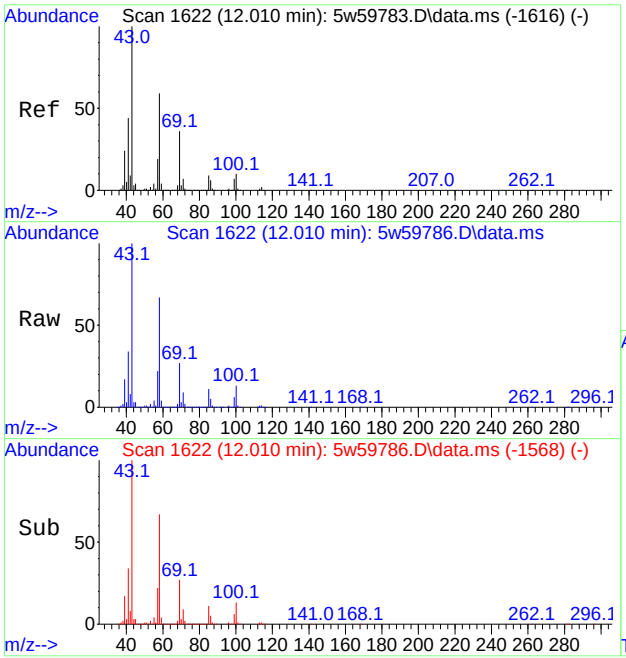


#69
1,1,2-TRICHLOROETHANE
Concen: 42.06 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 3077034

Ion	Ratio	Lower	Upper
83	100		
97	116.8	86.3	146.3
85	65.4	35.3	95.3

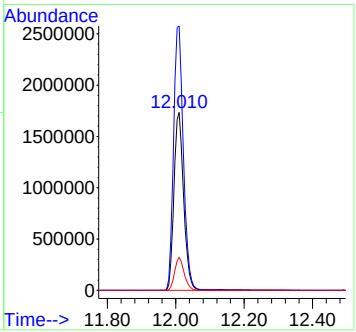


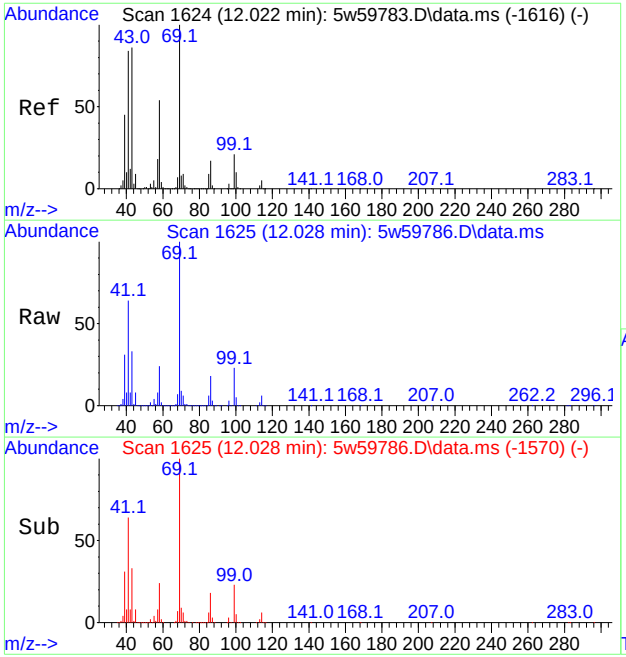


#71
2-HEXANONE
Concen: 32.66 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 3450029

Ion	Ratio	Lower	Upper
58	100		
43	150.6	137.2	197.2
100	18.4	0.0	46.9

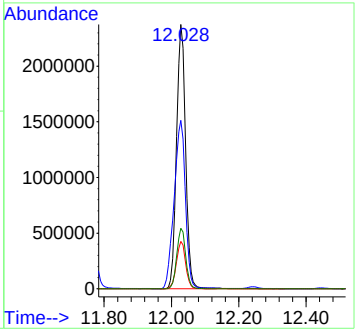


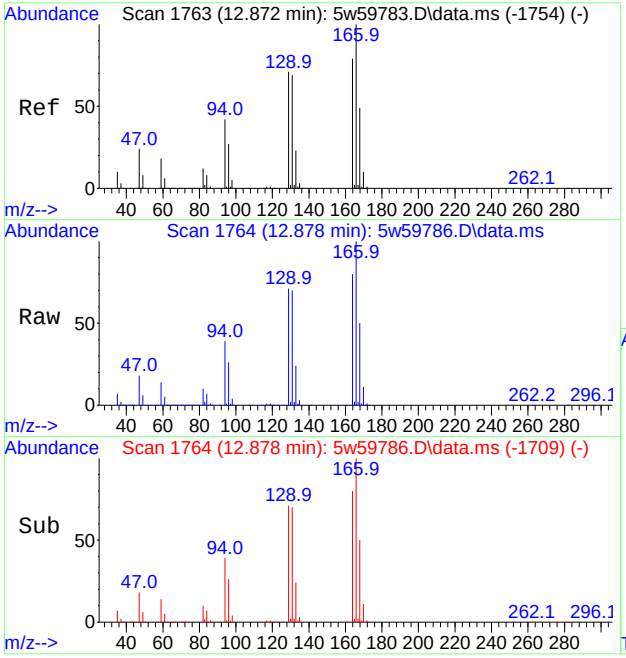


#72
ETHYL METHACRYLATE
Concen: 33.31 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 4427593

Ion	Ratio	Lower	Upper
69	100		
41	79.2	64.0	119.0
86	18.2	12.0	22.4
99	22.8	15.0	27.8

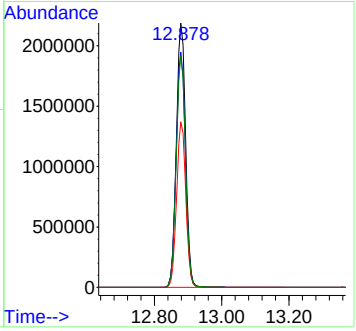


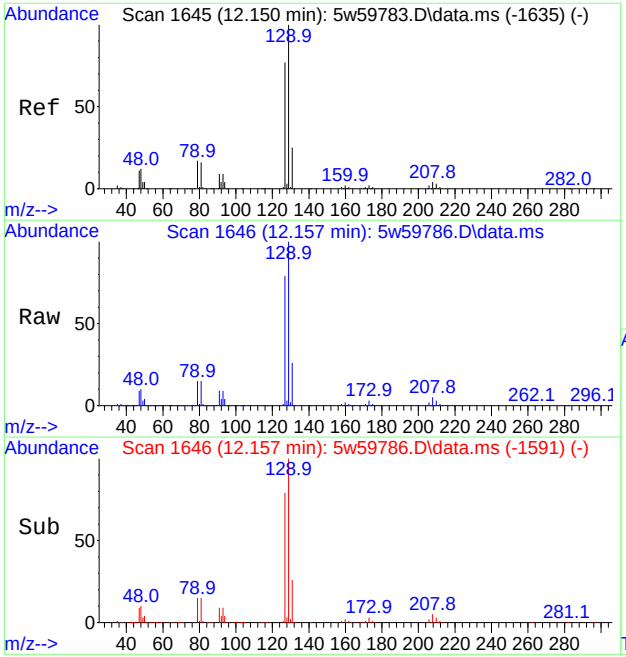


#73
TETRACHLOROETHYLENE
Concen: 31.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:164 Resp: 4203511

Ion	Ratio	Lower	Upper
164	100		
129	89.3	59.7	119.7
168	62.4	32.2	92.2
131	87.7	57.8	117.8

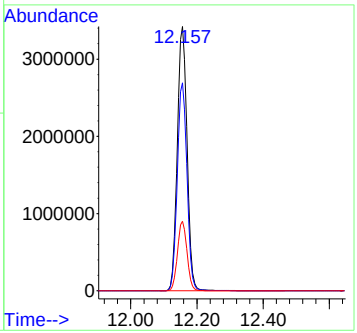


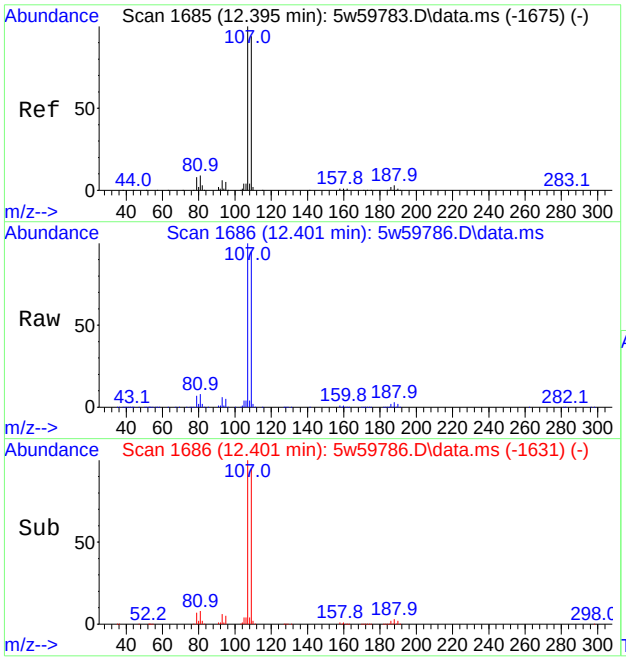


#74
DIBROMOCHLOROMETHANE
Concen: 30.46 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:129 Resp: 7029117

Ion	Ratio	Lower	Upper
129	100		
127	78.5	47.1	107.1
131	25.8	0.0	54.5

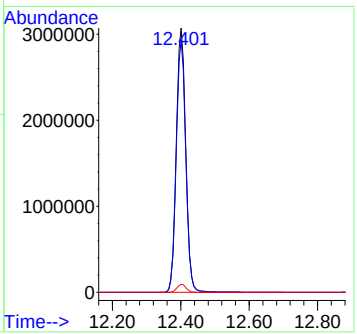


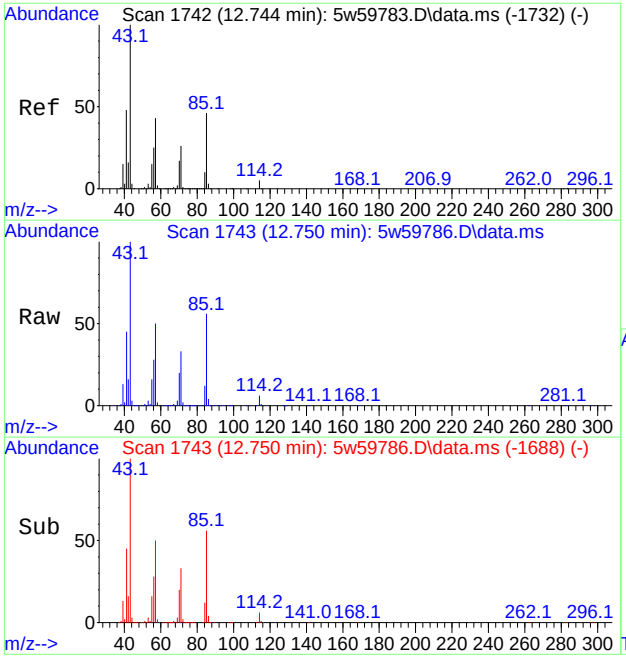


#75
1,2-DIBROMOETHANE
Concen: 33.98 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:107 Resp: 5931699

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

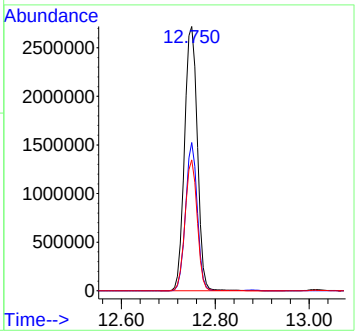


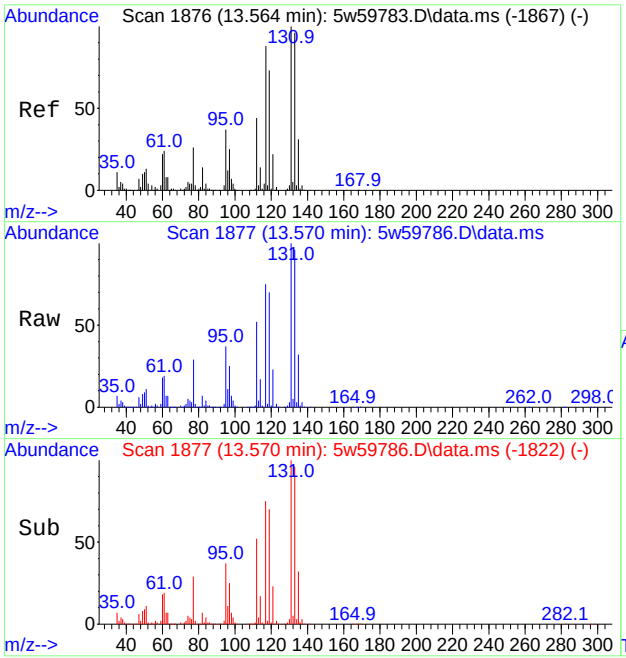


#76
OCTANE
Concen: 28.88 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 5161401

Ion	Ratio	Lower	Upper
43	100		
85	51.2	14.6	74.6
57	46.9	13.7	73.7

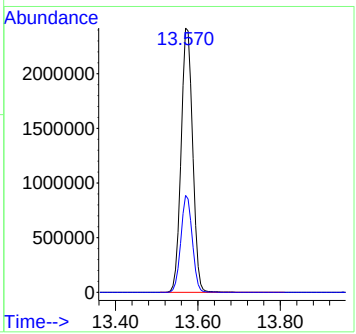


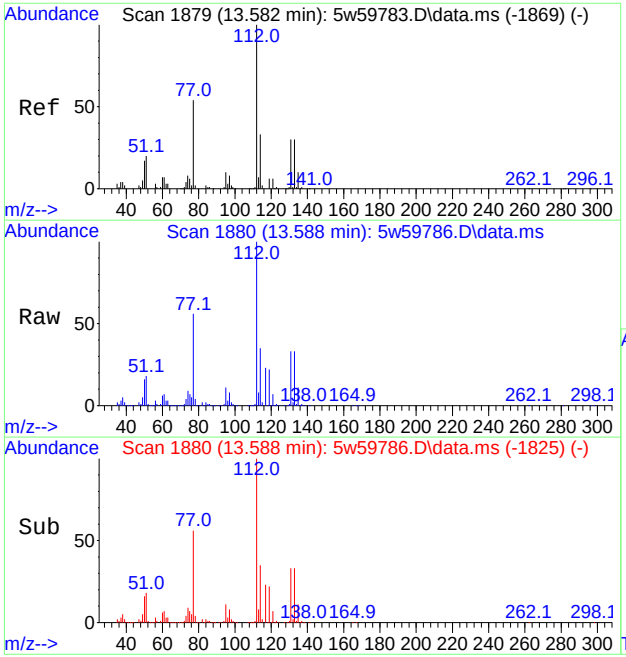


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 31.92 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:131 Resp: 4713028

Ion	Ratio	Lower	Upper
131	100		
95	36.1	6.5	66.5

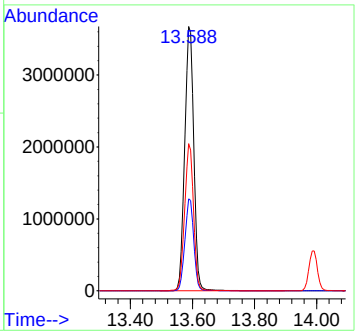


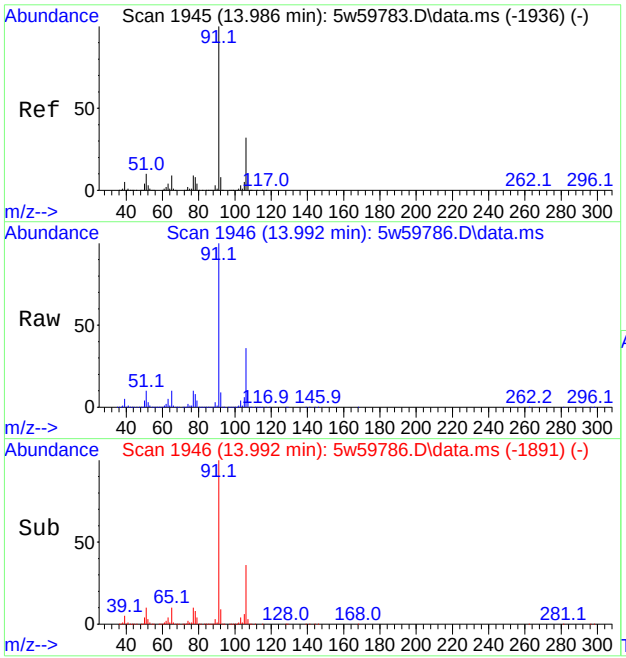


#78
CHLOROBENZENE
Concen: 30.47 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:112 Resp: 7439915

Ion	Ratio	Lower	Upper
112	100		
114	34.0	2.6	62.6
77	54.9	25.4	85.4

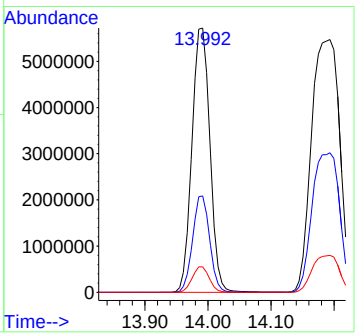


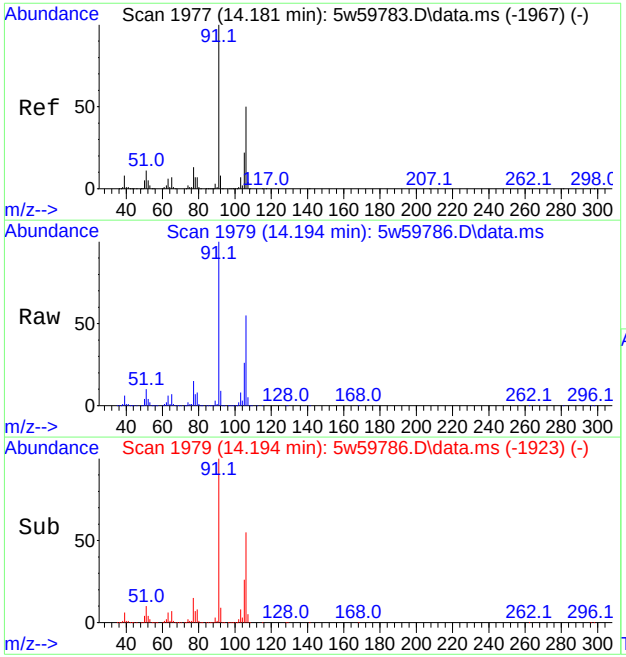


#79
ETHYLBENZENE
Concen: 31.54 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp:11379916

Ion	Ratio	Lower	Upper
91	100		
106	34.6	1.3	61.3
77	9.2	0.0	38.6

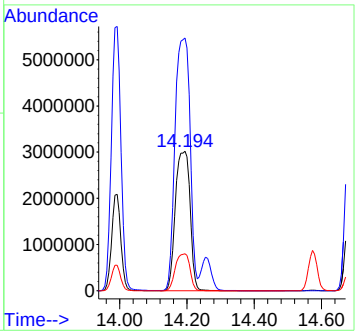


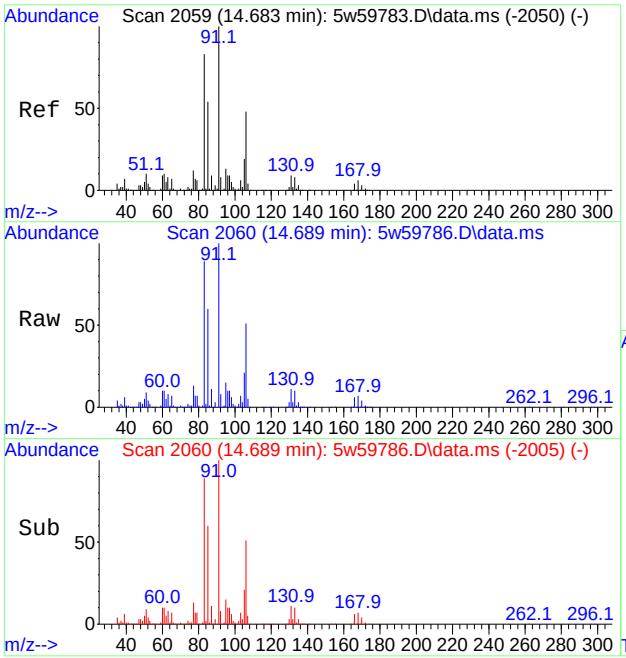


#80
m,p-XYLENE
Concen: 65.12 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 9117454

Ion	Ratio	Lower	Upper
106	100		
91	181.2	171.0	231.0
77	26.6	0.0	56.7

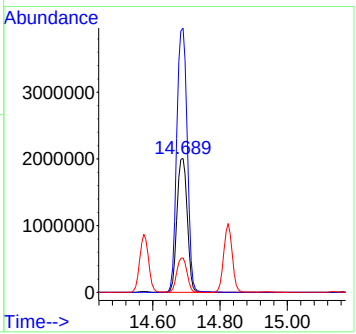


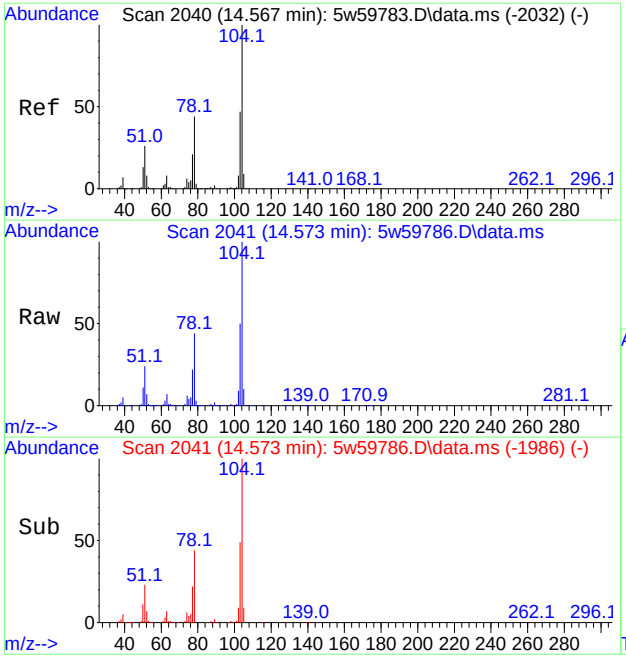


#81
o-XYLENE
Concen: 32.29 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 4240336

Ion	Ratio	Lower	Upper
106	100		
91	200.7	181.6	241.6
77	25.7	0.0	56.6

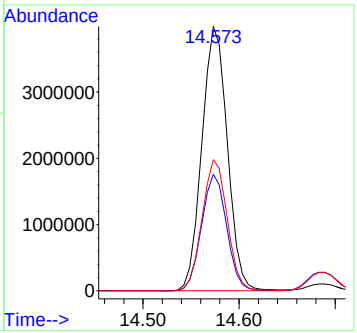


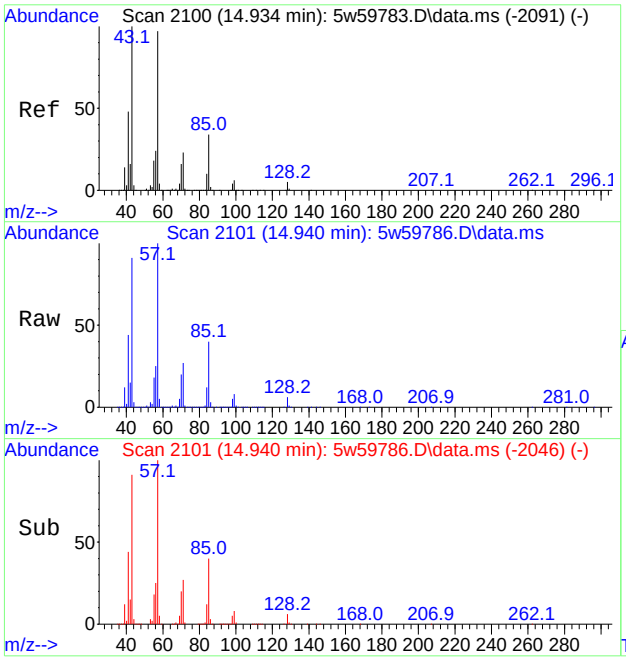


#82
STYRENE
Concen: 37.26 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:104 Resp: 7405410

Ion	Ratio	Lower	Upper
104	100		
78	43.4	13.3	73.3
103	48.7	17.2	77.2

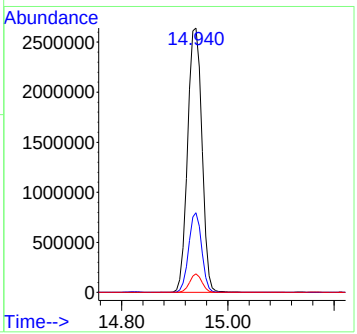


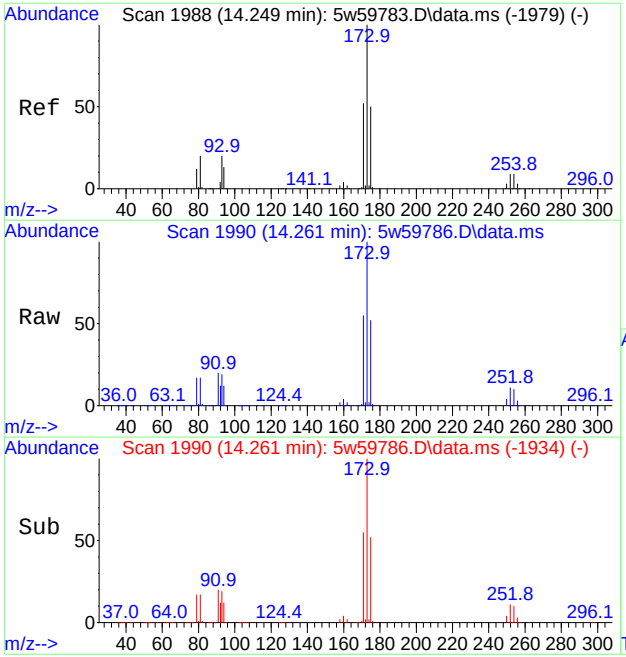


#83
NONANE
Concen: 27.57 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 4961142

Ion	Ratio	Lower	Upper
43	100		
71	27.5	0.0	52.7
128	6.1	0.0	34.7

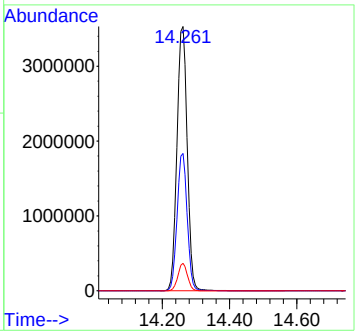


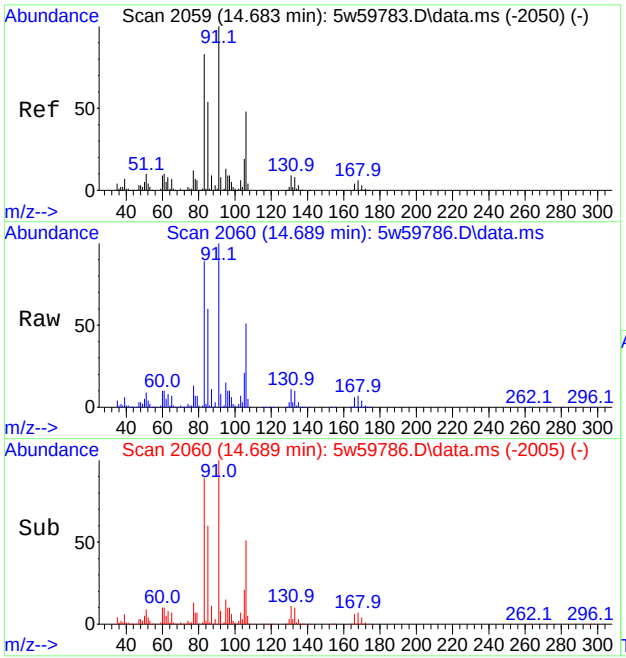


#84
BROMOFORM
Concen: 32.02 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:173 Resp: 7504388

Ion	Ratio	Lower	Upper
173	100		
175	51.0	19.6	79.6
254	9.8	0.0	39.0

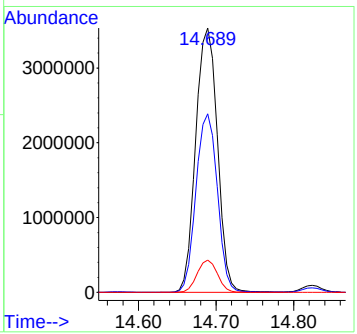


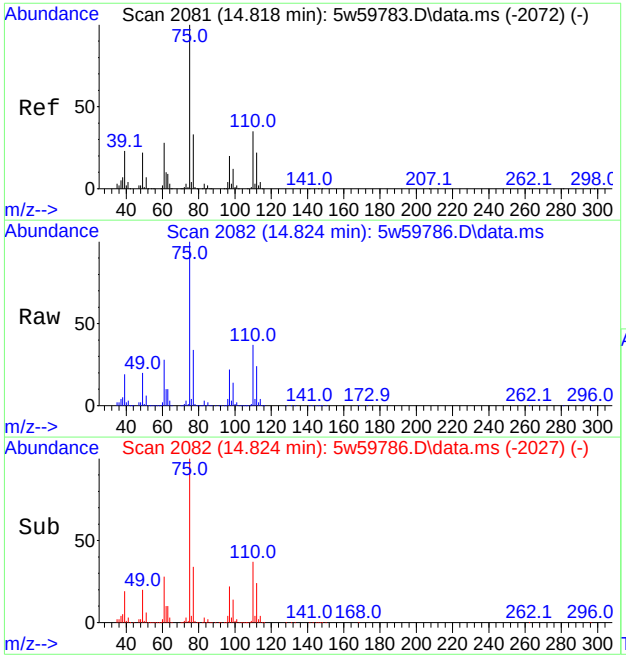


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 29.32 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6869258

Ion	Ratio	Lower	Upper
83	100		
85	66.6	35.2	95.2
131	11.5	0.0	40.3

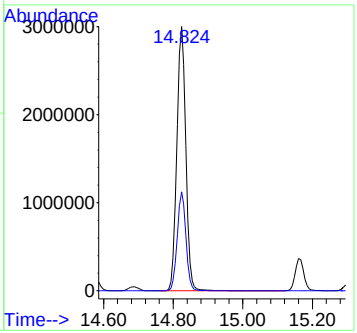


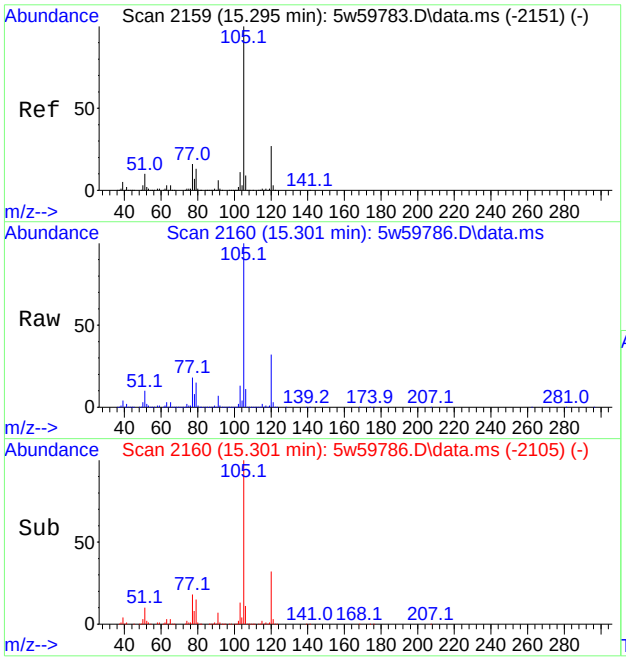


#87
1,2,3-TRICHLOROPROPANE
Concen: 29.33 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5400423

Ion	Ratio	Lower	Upper
75	100		
110	36.5	4.4	64.4

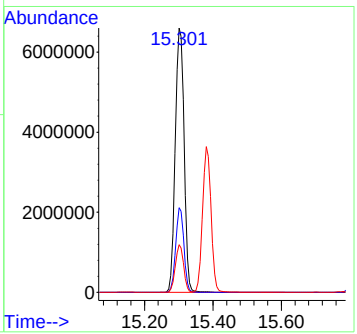


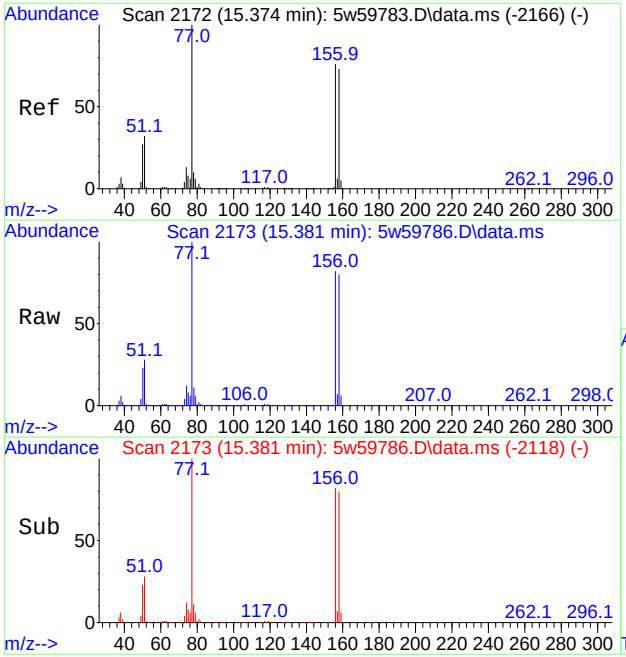


#88
ISOPROPYLBENZENE
Concen: 28.72 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11977220

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	56.0
77	16.8	0.0	45.6

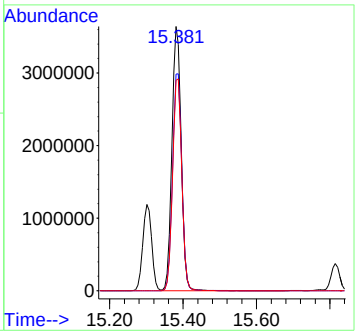


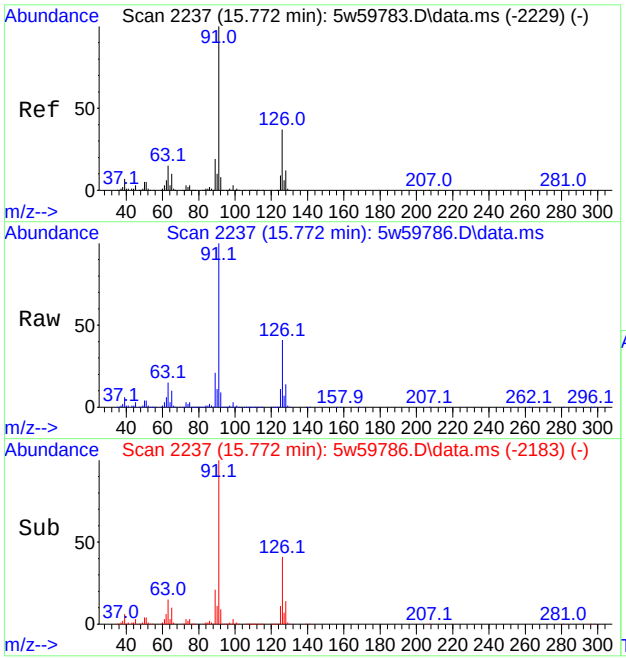


#89
BROMOBENZENE
Concen: 29.55 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 77 Resp: 6360723

Ion	Ratio	Lower	Upper
77	100		
156	82.5	54.9	101.9
158	80.2	53.5	99.3

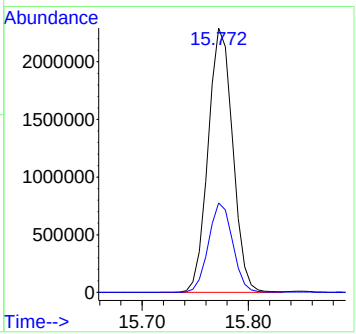


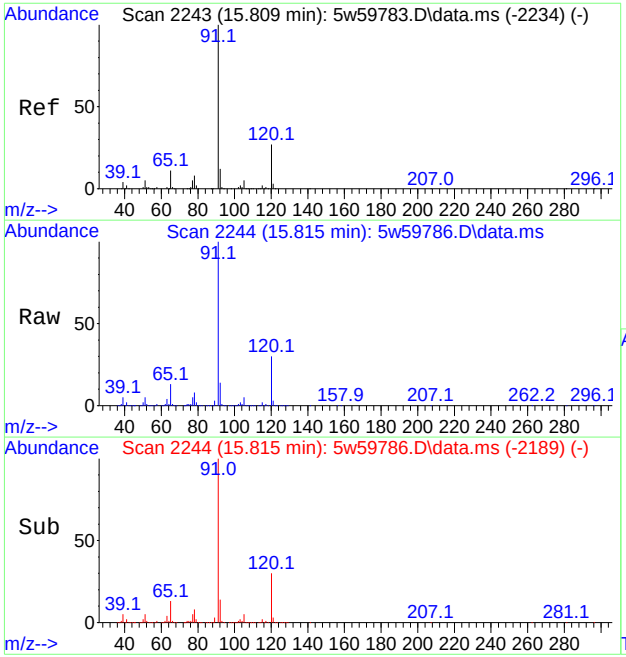


#90
2-CHLOROTOLUENE
Concen: 32.56 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:126 Resp: 3685448

Ion	Ratio	Lower	Upper
126	100		
128	33.2	2.7	62.7

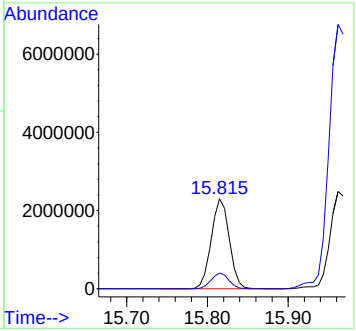


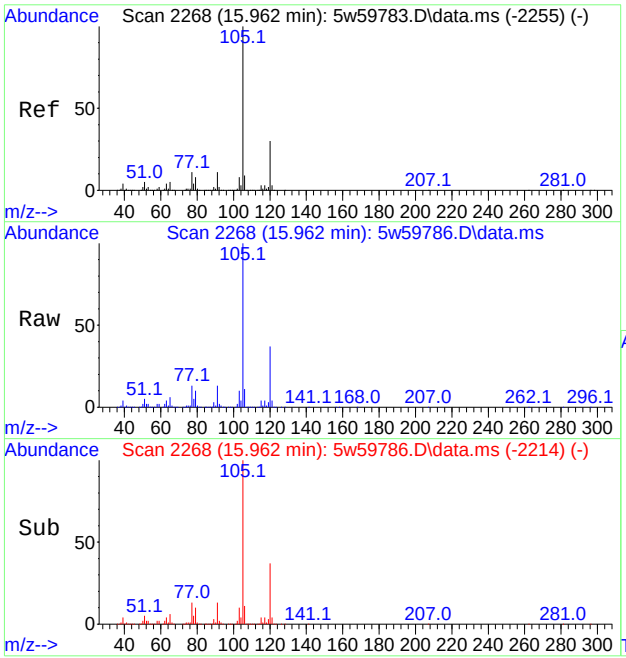


#91
n-PROPYLBENZENE
Concen: 31.94 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:120 Resp: 3584454

Ion	Ratio	Lower	Upper
120	100		
105	17.1	0.0	47.0

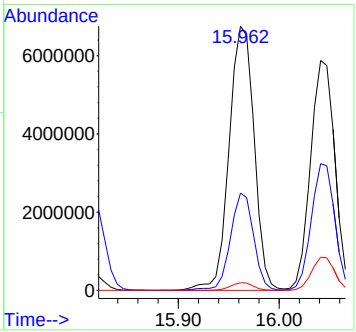


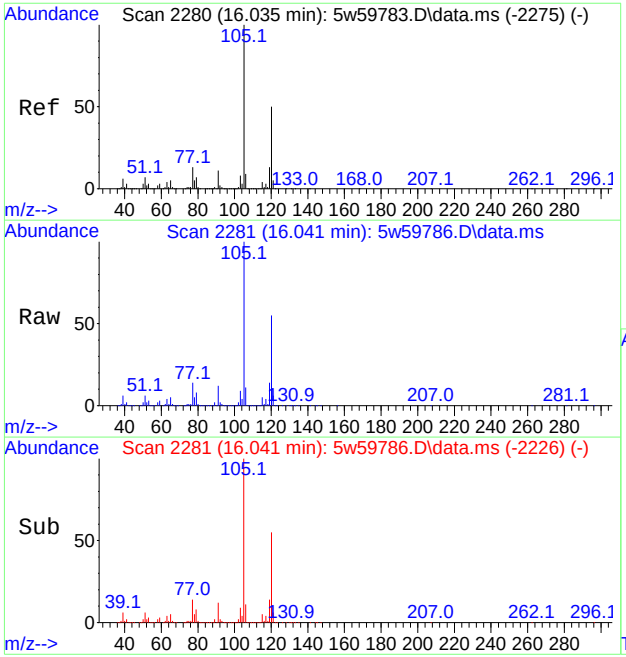


#92
4-ETHYLTOLUENE
Concen: 30.19 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11670979

Ion	Ratio	Lower	Upper
105	100		
120	34.0	0.0	59.9
119	2.7	0.0	32.3

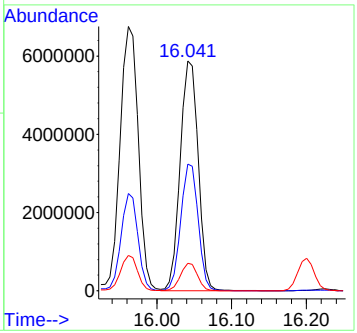


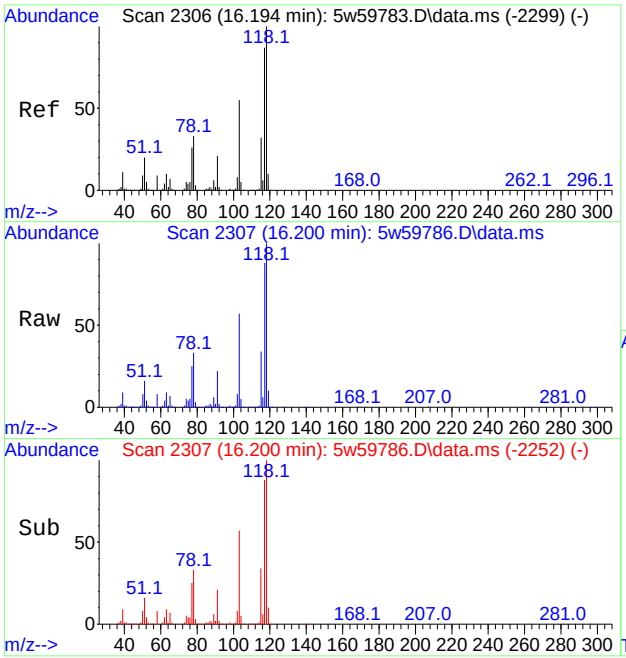


#93
1,3,5-TRIMETHYLBENZENE
Concen: 28.34 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9865714

Ion	Ratio	Lower	Upper
105	100		
120	53.1	19.4	79.4
91	11.4	0.0	40.8

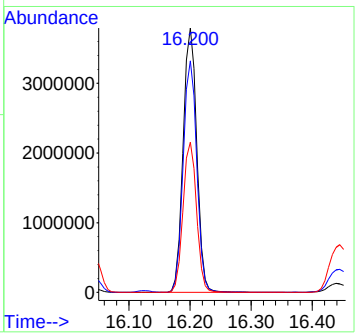


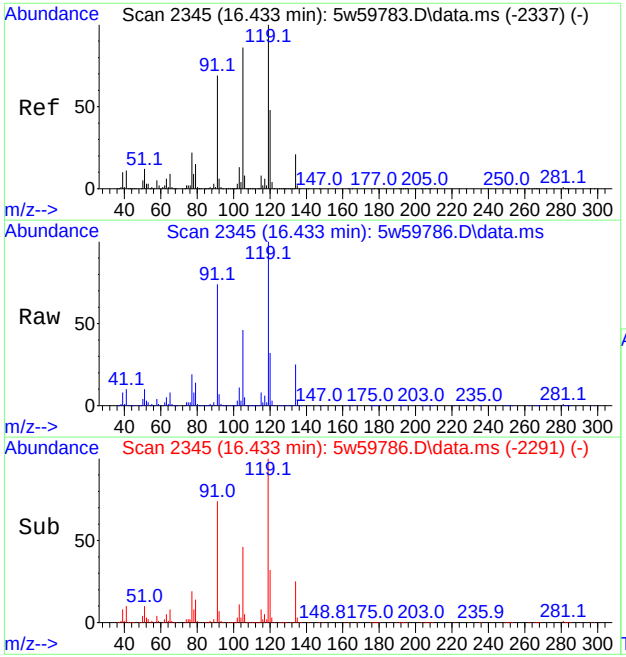


#94
ALPHA-METHYLSTYRENE
Concen: 33.71 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:118 Resp: 5900787

Ion	Ratio	Lower	Upper
118	100		
117	87.6	60.9	113.1
103	56.3	38.6	71.8

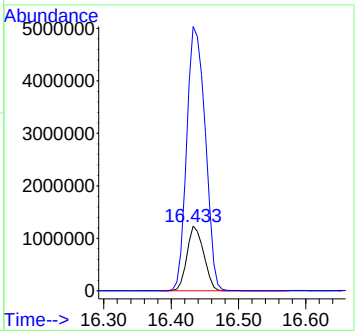


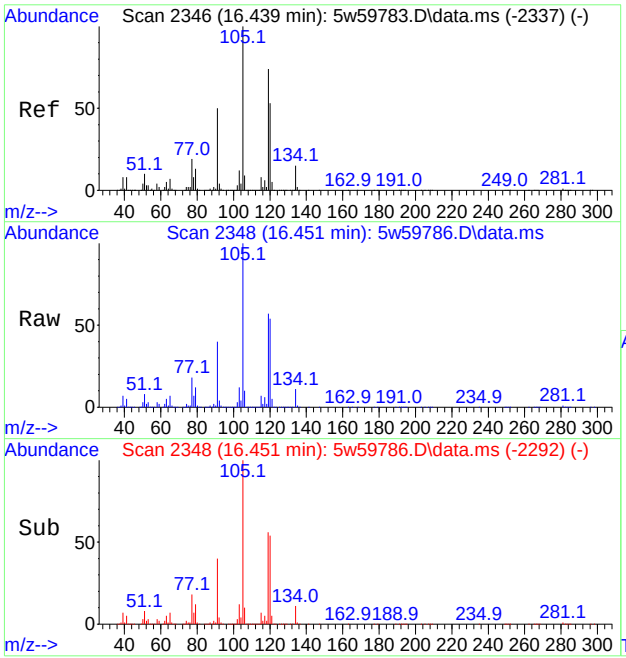


#95
tert-BUTYLBENZENE
Concen: 28.46 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2122779

Ion	Ratio	Lower	Upper
134	100		
119	455.7	459.3	519.3#

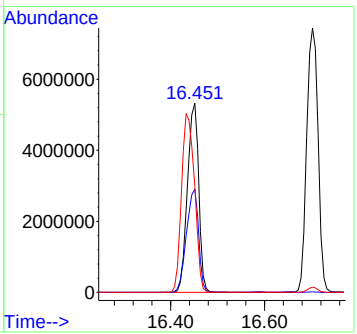


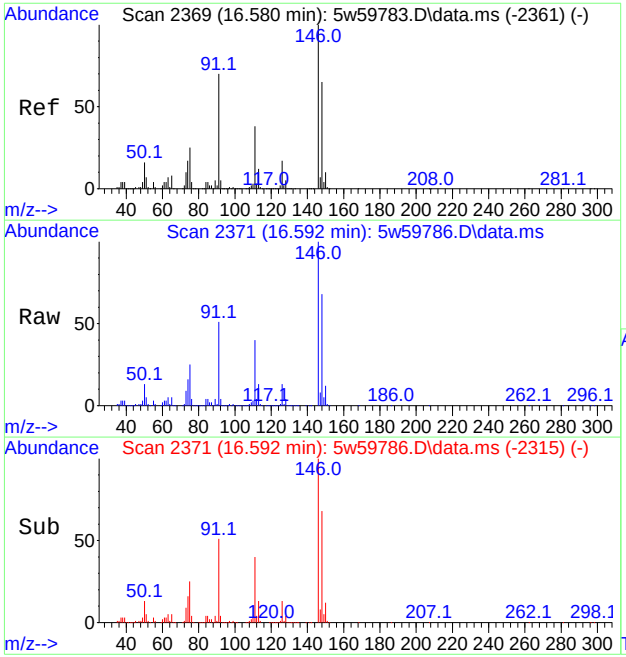


#96
1,2,4-TRIMETHYLBENZENE
Concen: 26.06 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 8886934

Ion	Ratio	Lower	Upper
105	100		
120	58.6	25.7	85.7
119	108.9	75.7	135.7

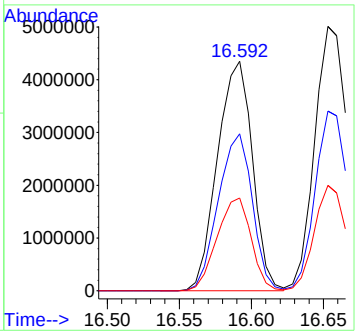


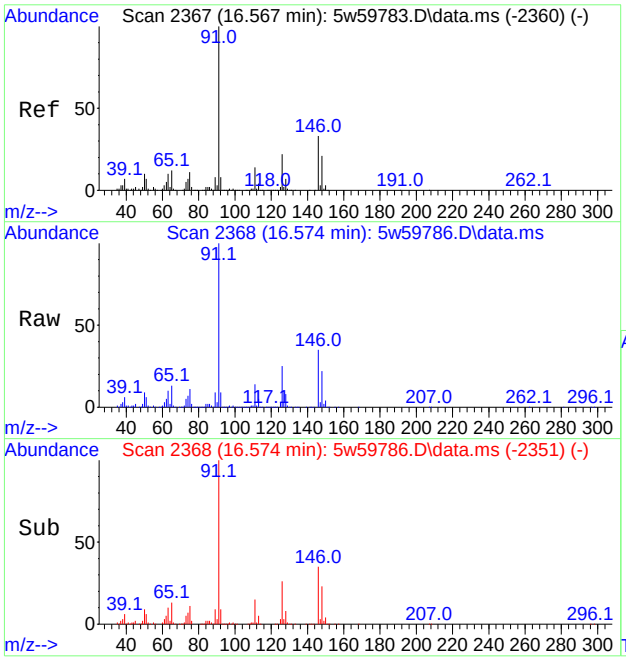


#97
m-DICHLOROBENZENE
Concen: 27.06 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7359121

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.8	94.8
111	39.4	8.2	68.2

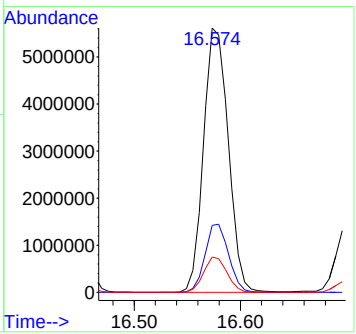


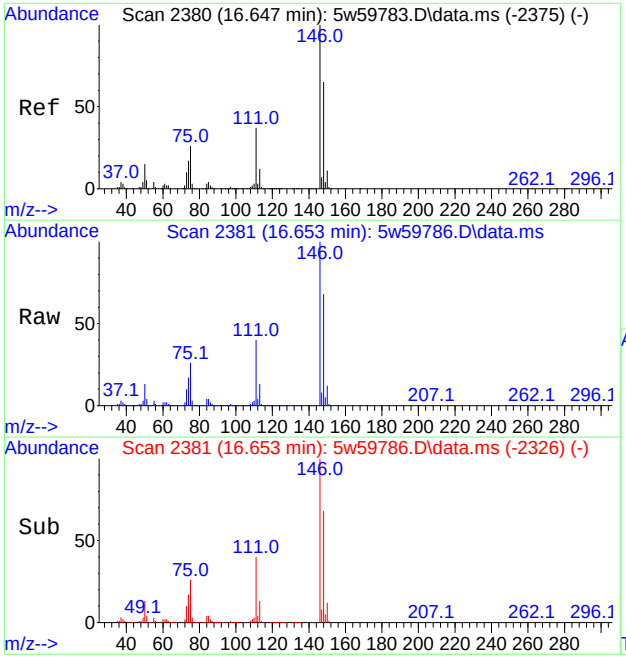


#98
BENZYL CHLORIDE
Concen: 28.12 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp: 9095992

Ion	Ratio	Lower	Upper
91	100		
126	24.6	0.0	51.7
65	12.7	0.0	42.2

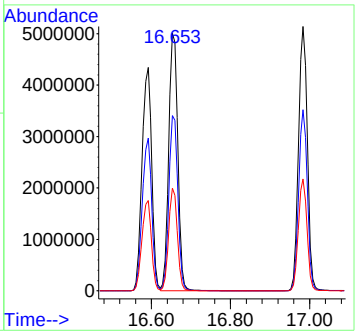


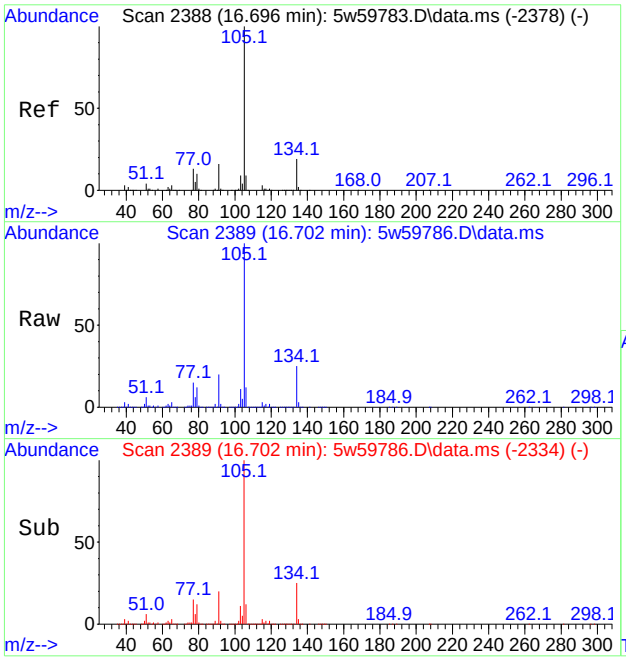


#99
p-DICHLOROBENZENE
Concen: 28.96 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7993903

Ion	Ratio	Lower	Upper
146	100		
148	67.0	34.6	94.6
111	38.3	6.7	66.7

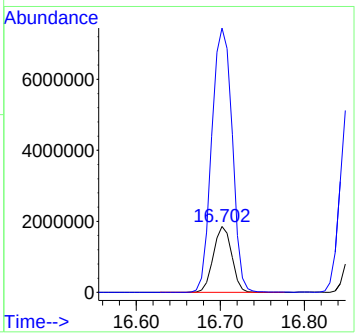


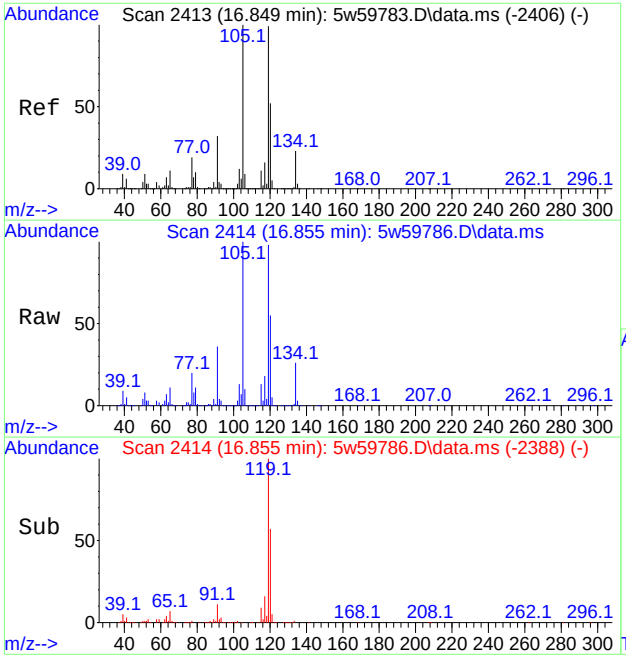


#100
sec-BUTYLBENZENE
Concen: 30.67 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2827725

Ion	Ratio	Lower	Upper
134	100		
105	445.7	502.5	562.5#

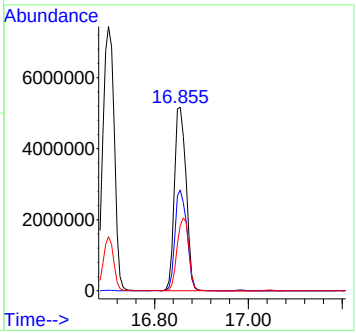


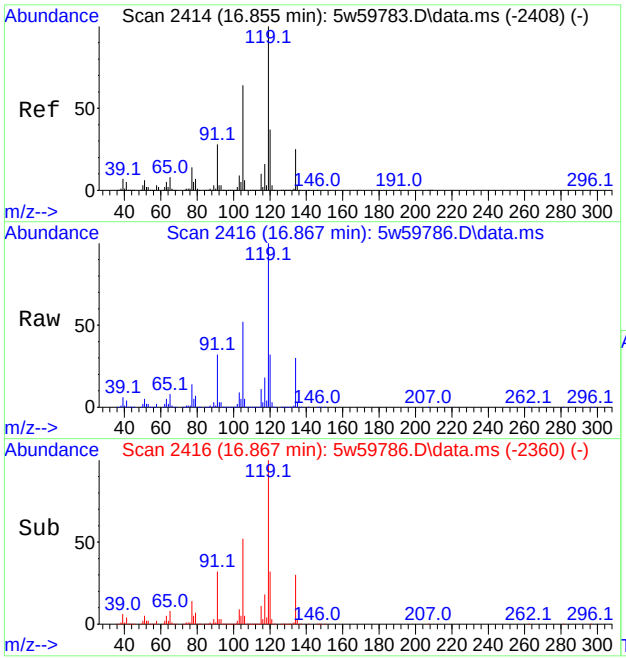


#101
1,2,3-TRIMETHYLBENZENE
Concen: 24.94 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9024748

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	39.4	7.4	67.4

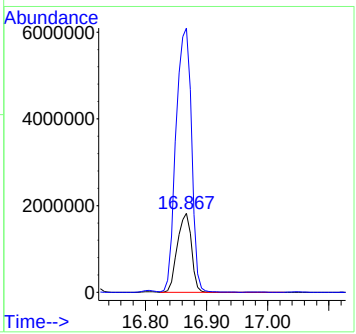


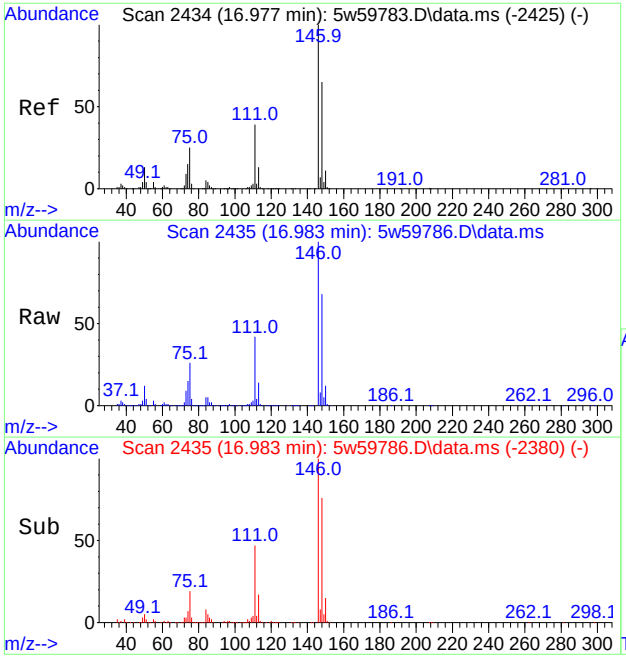


#102
p-ISOPROPYLTOLUENE
Concen: 27.10 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2924462

Ion	Ratio	Lower	Upper
134	100		
119	367.4	377.7	437.7#

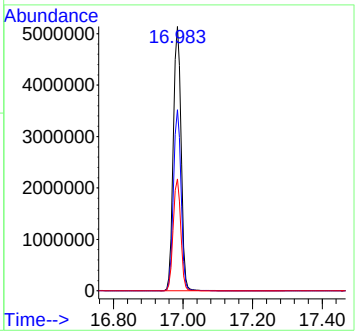


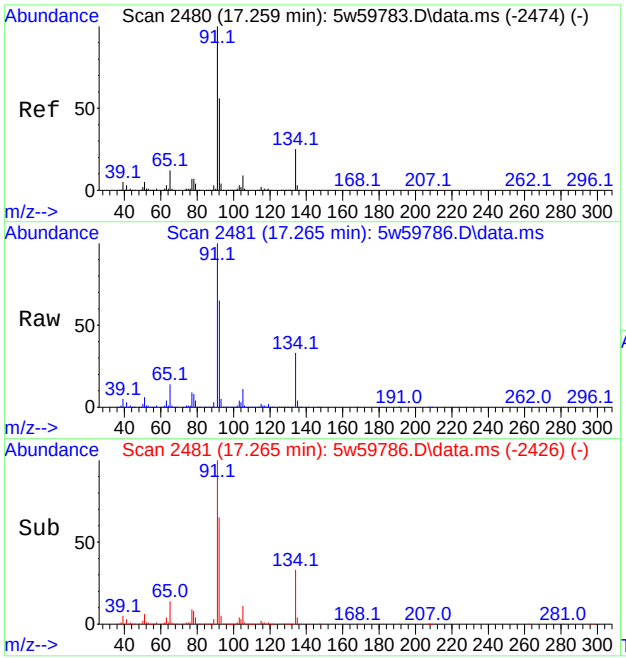


#103
o-DICHLOROBENZENE
Concen: 29.61 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7985671

Ion	Ratio	Lower	Upper
146	100		
148	67.1	34.3	94.3
111	41.2	9.2	69.2

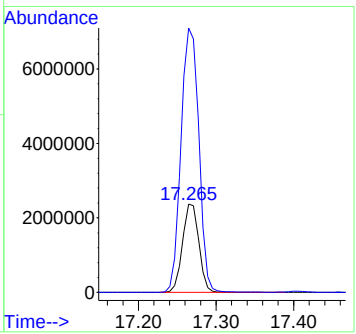


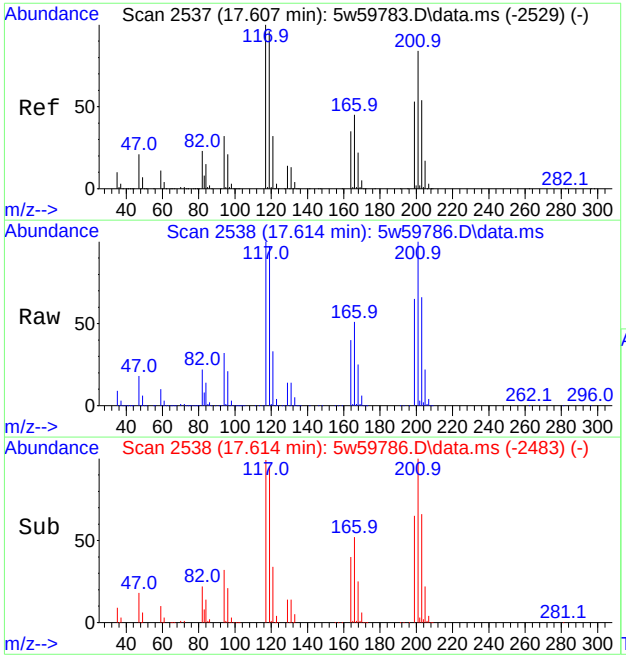


#104
n-BUTYLBENZENE
Concen: 34.55 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 3481921

Ion	Ratio	Lower	Upper
134	100		
91	327.2	363.1	423.1#

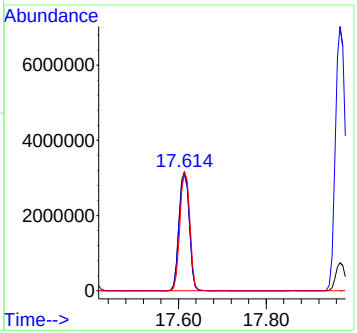


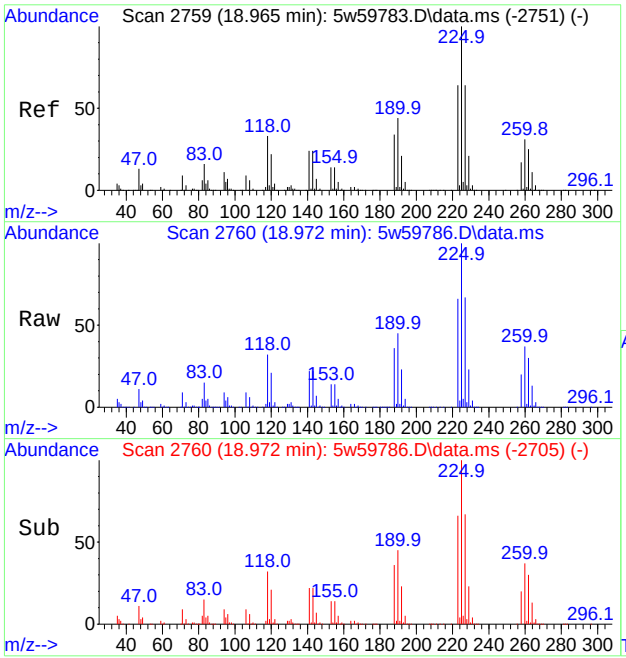


#105
HEXACHLOROETHANE
Concen: 28.92 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 5208368

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	95.1	61.1	113.5

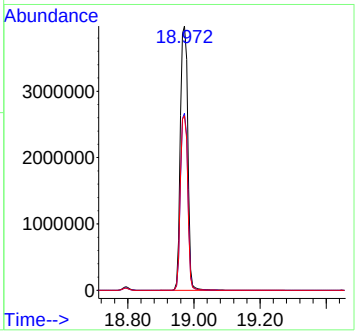


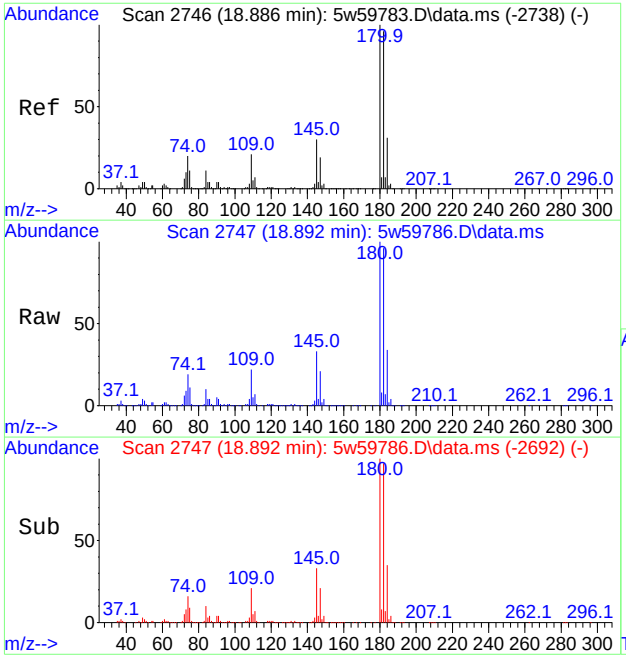


#106
HEXACHLOROBUTADIENE
Concen: 22.78 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:225 Resp: 6236008

Ion	Ratio	Lower	Upper
225	100		
227	66.2	34.2	94.2
223	65.6	33.3	93.3

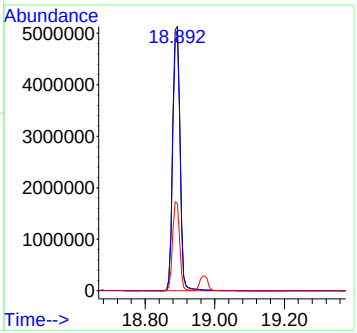


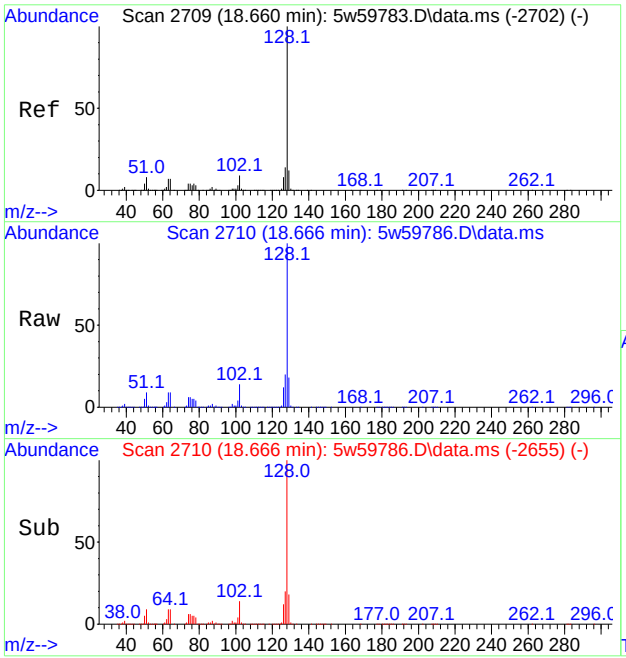


#107
1,2,4-TRICHLOROBENZENE
Concen: 32.01 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:180 Resp: 7600427

Ion	Ratio	Lower	Upper
180	100		
182	95.8	65.4	125.4
145	32.0	0.0	59.4

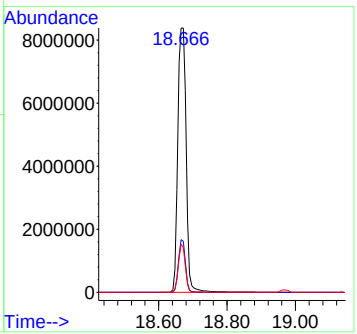


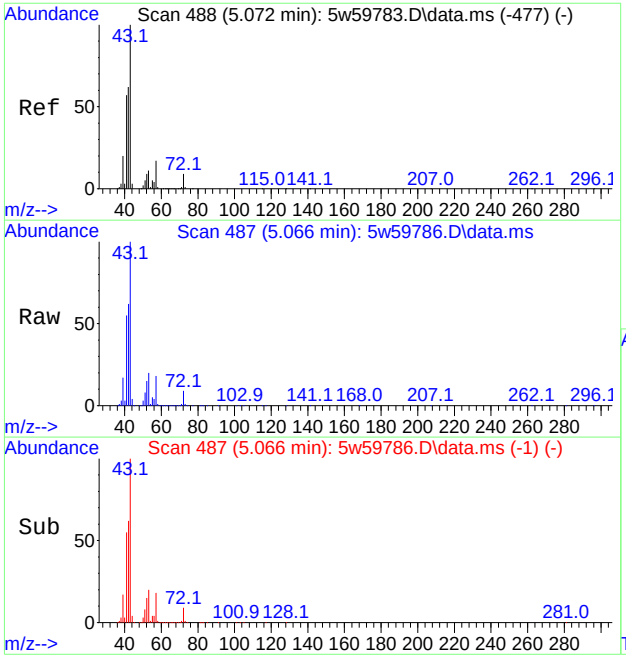


#108
NAPHTHALENE
Concen: 26.02 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:128 Resp:14205927

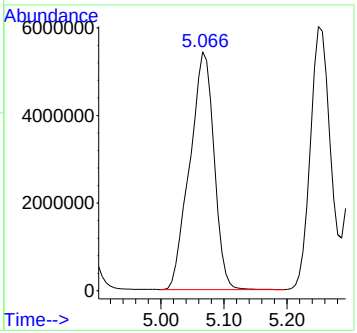
Ion	Ratio	Lower	Upper
128	100		
127	16.9	0.0	43.3
129	15.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 31.68 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:TIC Resp:14466620



Manual Integration Approval Summary

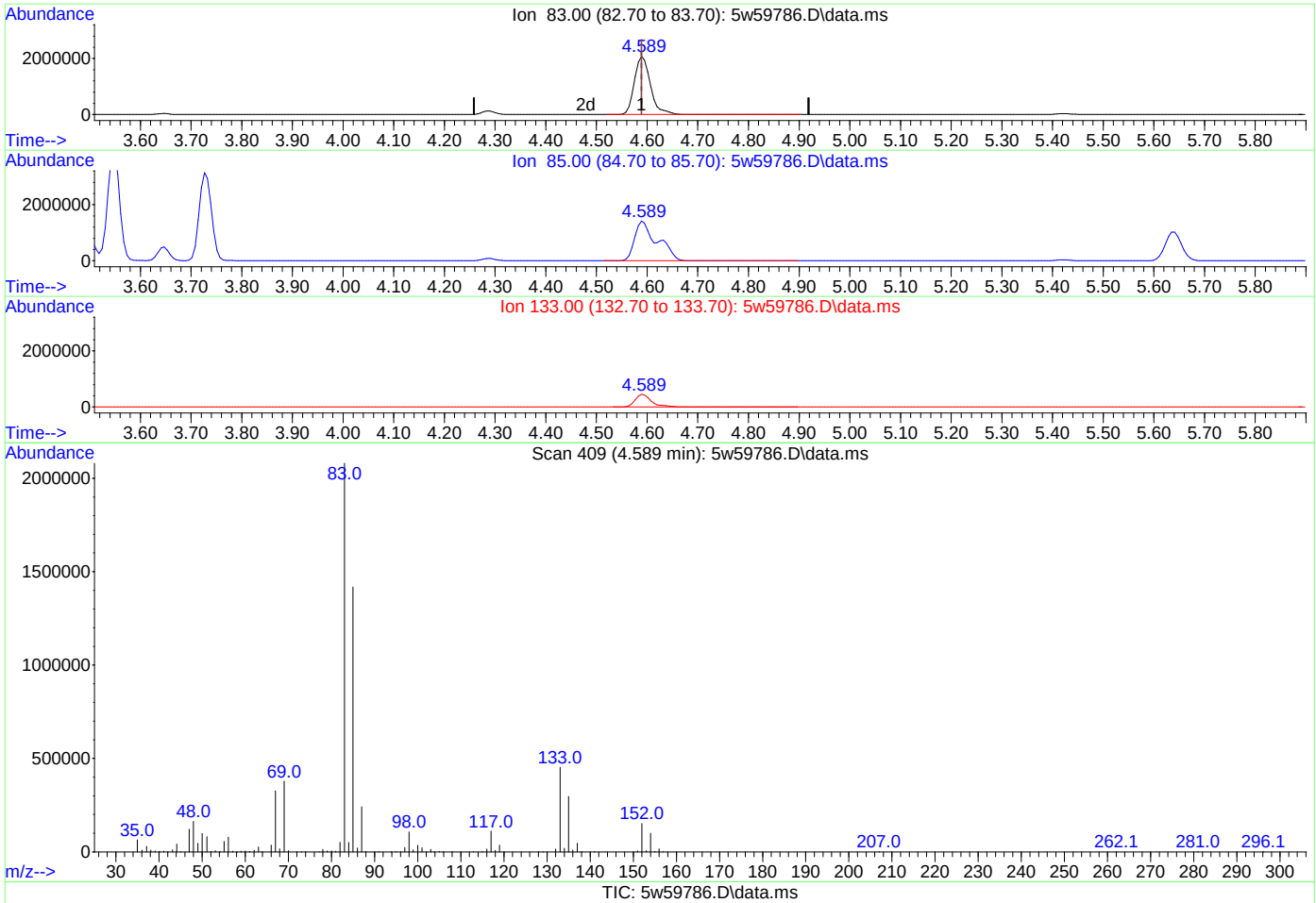
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59786.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 09:38 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV

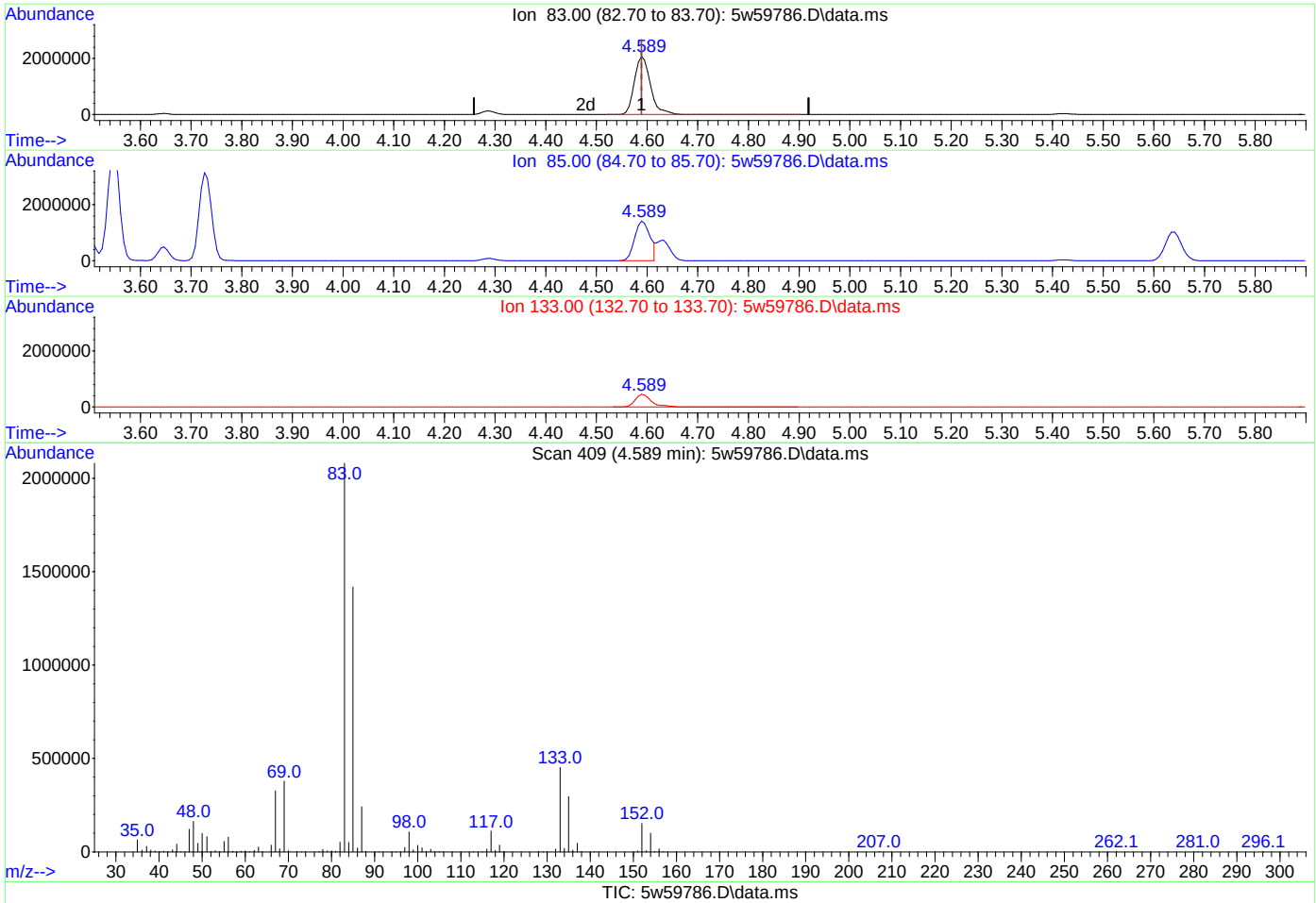
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.64#
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV m

response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.67
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
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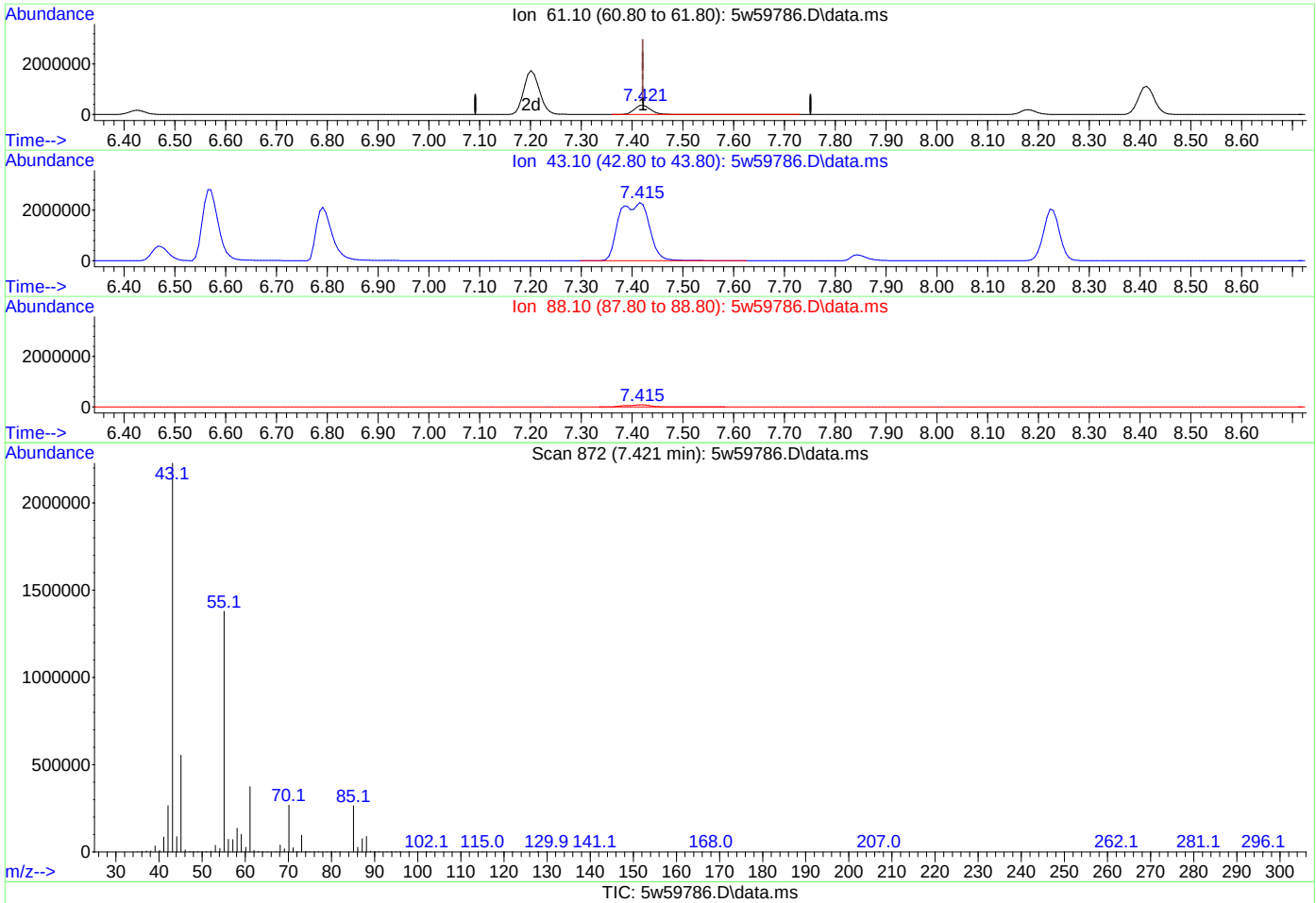


TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV

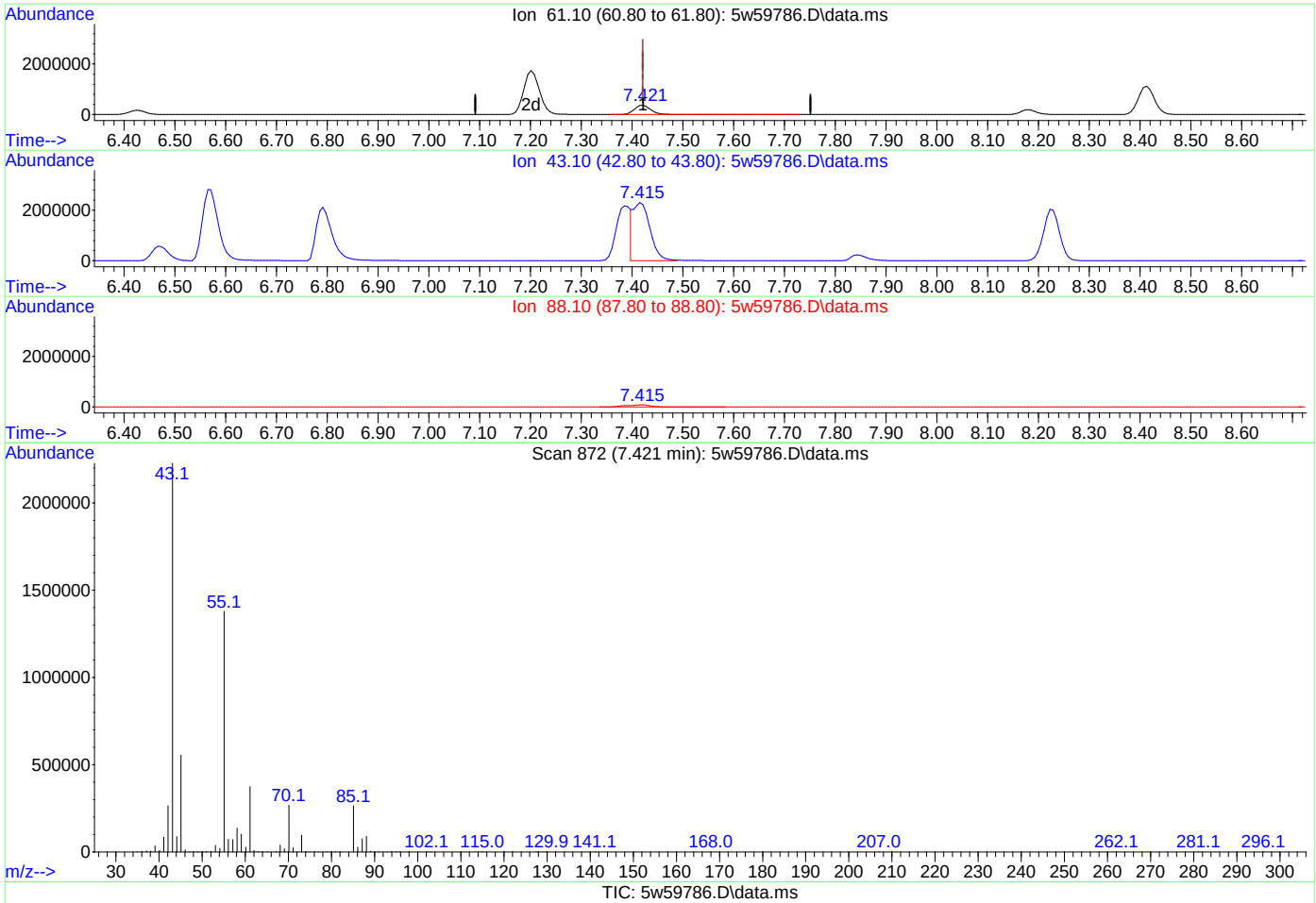
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1136.24#
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV m

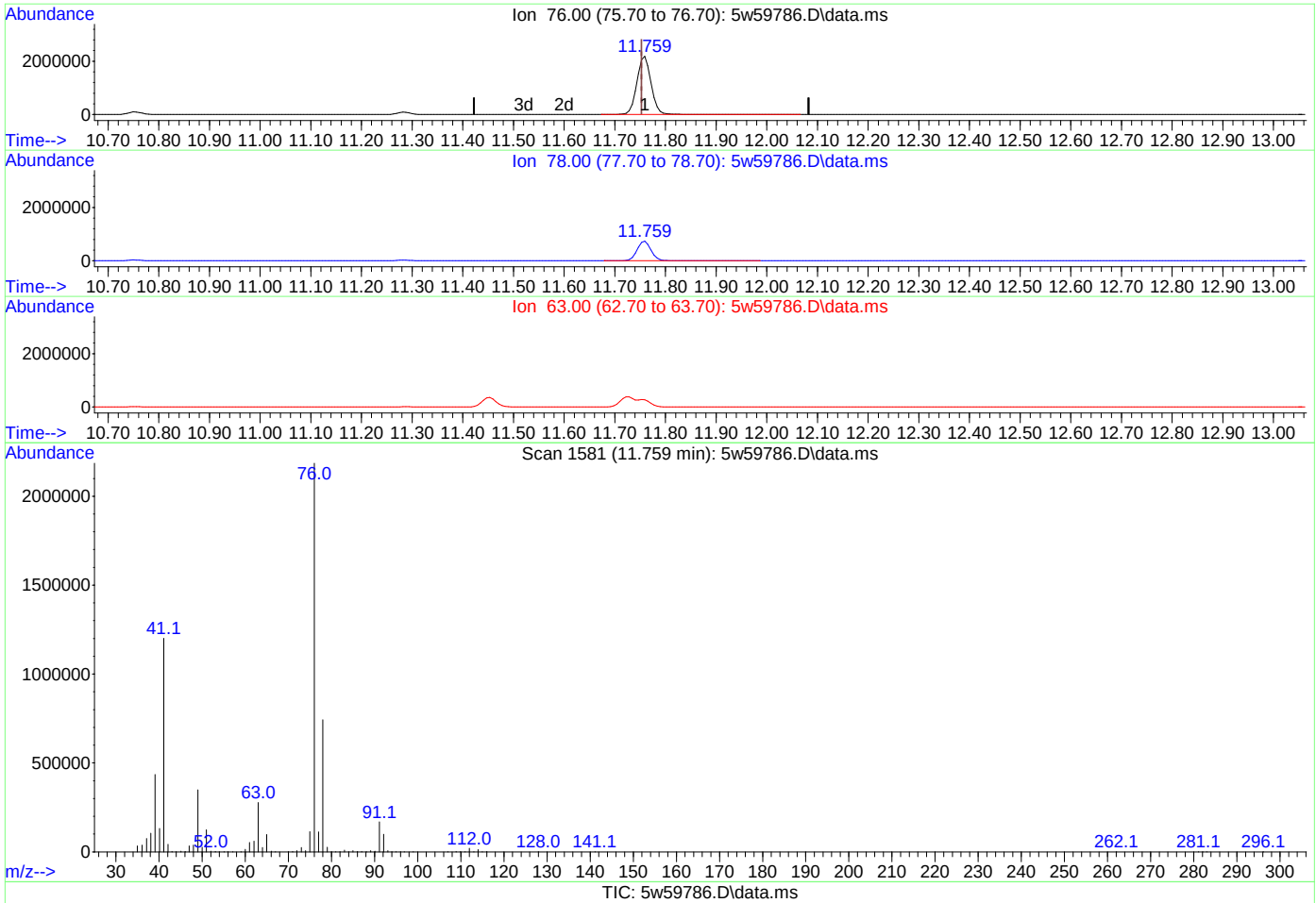
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	618.03
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV

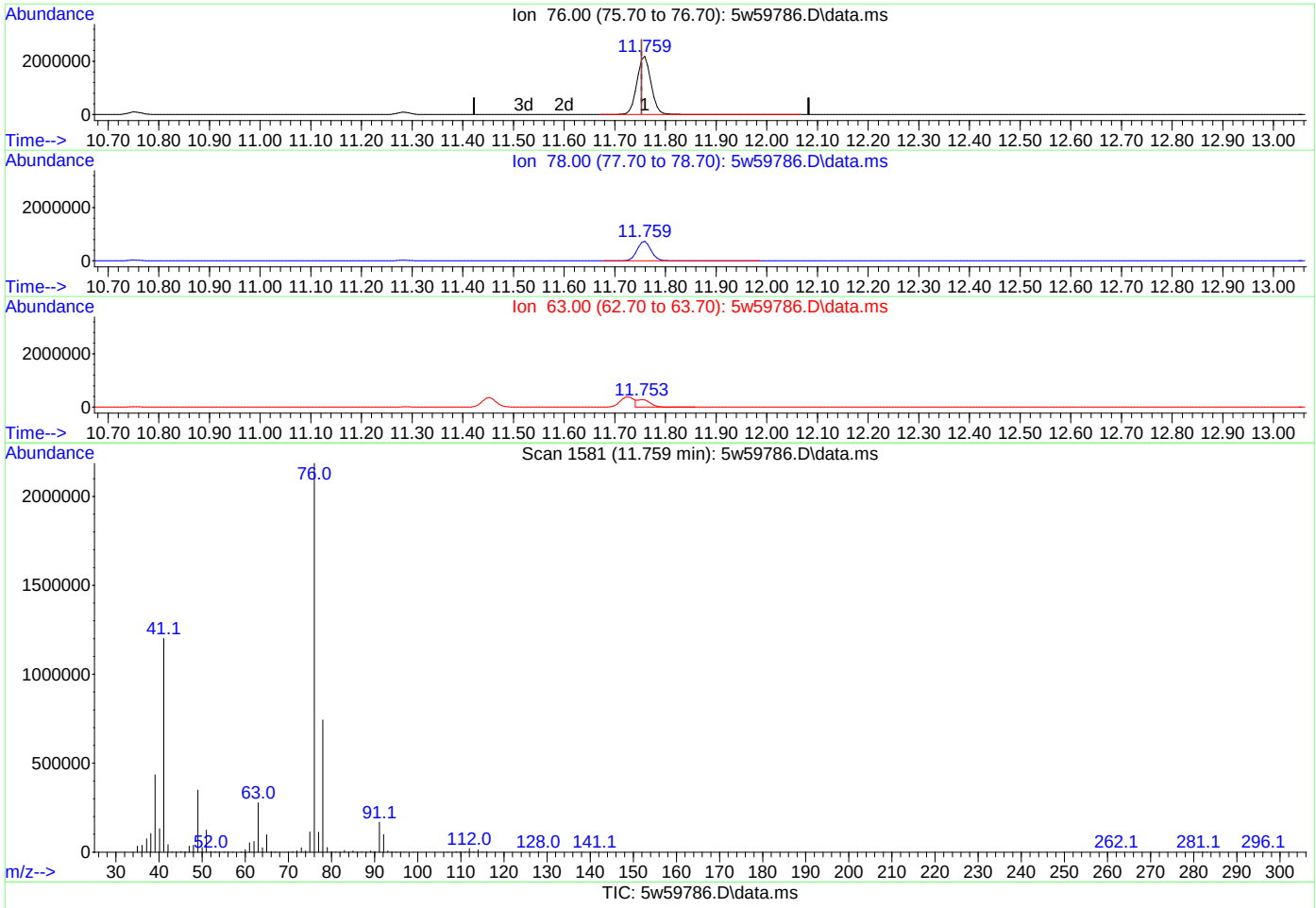
response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV m

response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	11.61
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.366	128	467614	10.00	PPBV		0.01
51) 1,4-DIFLUOROBENZENE	9.220	114	1973593	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1346242	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.366	128	467614	10.00	PPBV		0.01
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.167	95	1432127	8.79	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 87.90%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	581031	25.61	PPBV		100
3) FREON 152A	3.445	65	2109561	69.10	PPBV		94
4) CHLORODIFLUOROMETHANE	3.476	67	930907	63.03	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.506	116	4660403	63.22	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	7605378	57.48	PPBV		96
7) PROPYLENE	3.500	41	1977365	62.50	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	5527171	55.41	PPBV		98
9) FREON 114	3.733	85	6296072	53.88	PPBV		96
10) CHLOROMETHANE	3.665	52	706786	54.00	PPBV		96
11) VINYL CHLORIDE	3.818	62	2396129	54.50	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1434792	57.20	PPBV		98
13) n-BUTANE	3.947	43	2229721	56.04	PPBV		98
14) BROMOMETHANE	4.106	94	2666902	57.99	PPBV		100
15) CHLOROETHANE	4.228	64	1048912	54.16	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	5025383	54.94	PPBV		98
17) ACETONITRILE	4.479	41	1245621	52.74	PPBV		99
18) ACROLEIN	4.571	56	762905	54.68	PPBV		95
19) FREON 123	4.595	83	5407858m	53.17	PPBV		
20) FREON 123A	4.638	117	3495792	57.82	PPBV		92
21) TRICHLOROFLUOROMETHANE	4.797	101	6263951	56.50	PPBV		99
22) ISOPROPYL ALCOHOL	4.877	45	4774264	59.23	PPBV		99
23) ACETONE	4.669	58	909361	55.35	PPBV		98
24) PENTANE	5.072	42	2631624	64.00	PPBV		96
25) IODOMETHANE	5.256	142	9114140	64.39	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2972573	64.07	PPBV		93
27) CARBON DISULFIDE	5.672	76	7844304	61.73	PPBV		97
28) ETHANOL	4.320	45	782956	51.79	PPBV		100
29) BROMOETHENE	4.479	106	2638149	57.30	PPBV		100
30) ACRYLONITRILE	5.048	52	1983513	68.16	PPBV		99
31) METHYLENE CHLORIDE	5.427	84	2586702	62.87	PPBV		95
32) 3-CHLOROPROPENE	5.525	76	1356999	64.21	PPBV	#	88
33) FREON 113	5.641	151	5255099	62.99	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	3195584	65.25	PPBV		96
35) TERTIARY BUTYL ALCOHOL	5.372	59	4989539	52.68	PPBV		98
36) METHYL TERTIARY BUTYL ...	6.473	73	7764187	63.24	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1279396	65.77	PPBV		96
38) HEXANE	7.385	57	4098725	58.34	PPBV		91
39) VINYL ACETATE	6.571	86	595335	69.16	PPBV	#	73
40) 1,1-DICHLOROETHANE	6.430	63	5580661	63.37	PPBV		98
41) METHYL ETHYL KETONE	6.791	72	1403846	68.19	PPBV	#	81
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3406006	66.53	PPBV		96
43) DIISOPROPYL ETHER	7.391	59	1304563	59.80	PPBV	#	72
44) ETHYL ACETATE	7.422	61	1009100m	62.87	PPBV		
45) METHYL ACRYLATE	7.409	55	5147084	59.04	PPBV		96
46) CHLOROFORM	7.489	83	6393103	62.45	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.229	57	5181431	62.87	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.413	97	6744194	62.23	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	7391895	61.67	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	4560398	62.85	PPBV		98
52)	BENZENE	8.859	78	8949189	67.41	PPBV		99
53)	CYCLOHEXANE	9.110	84	3590293	67.59	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1853301	67.86	PPBV		90
55)	TRICHLOROETHYLENE	9.893	95	4247994	61.05	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	3414269	61.24	PPBV		99
57)	DIBROMOMETHANE	9.642	174	4863346	64.66	PPBV		97
58)	ETHYL ACRYLATE	9.685	55	6797917	63.67	PPBV		98
59)	BROMODICHLOROMETHANE	9.862	83	7417663	61.30	PPBV		97
60)	2,2,4-TRIMETHYLPENTANE	9.924	57	11658719	56.13	PPBV		96
61)	1,4-DIOXANE	9.893	88	1844331	60.00	PPBV	#	1
62)	HEPTANE	10.193	43	4474034	63.31	PPBV		93
63)	METHYL METHACRYLATE	10.113	69	3101307	67.79	PPBV		94
64)	METHYL ISOBUTYL KETONE	10.792	58	2975343	66.58	PPBV		88
65)	cis-1,3-DICHLOROPROPENE	10.756	75	6183357	66.43	PPBV		90
66)	TOLUENE	11.728	92	6766589	65.67	PPBV		93
67)	1,3-DICHLOROPROPANE	11.759	76	5183507m	63.52	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	5535715	63.59	PPBV		93
69)	1,1,2-TRICHLOROETHANE	11.453	83	3736885	66.35	PPBV		100
71)	2-HEXANONE	12.010	58	4158676	54.00	PPBV		87
72)	ETHYL METHACRYLATE	12.034	69	5321053	53.39	PPBV		89
73)	TETRACHLOROETHYLENE	12.878	164	5112644	56.17	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.157	129	8396348	52.38	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	7189005	57.04	PPBV		100
76)	OCTANE	12.750	43	6099138	51.61	PPBV		89
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	5539677	54.07	PPBV		100
78)	CHLOROBENZENE	13.594	112	8685700	52.99	PPBV		98
79)	ETHYLBENZENE	13.992	91	13293280	52.78	PPBV		93
80)	m,p-XYLENE	14.194	106	10660694	104.01	PPBV		86
81)	o-XYLENE	14.689	106	4828440	49.93	PPBV		93
82)	STYRENE	14.579	104	8801086	56.42	PPBV		98
83)	NONANE	14.940	43	5544485	46.77	PPBV		89
84)	BROMOFORM	14.261	173	8954982	53.58	PPBV		97
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	7680268	46.70	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	6463476	53.62	PPBV		96
88)	ISOPROPYLBENZENE	15.307	105	13782072	47.61	PPBV		93
89)	BROMOBENZENE	15.387	77	7438070	50.72	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	4362530	53.10	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	4269312	52.74	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	13388380	48.02	PPBV		91
93)	1,3,5-TRIMETHYLBENZENE	16.047	105	11253685	47.79	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.200	118	6738901	50.76	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	2429034	46.98	PPBV	#	85
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	9912721	42.68	PPBV		96
97)	m-DICHLOROBENZENE	16.592	146	8350505	44.49	PPBV		97
98)	BENZYL CHLORIDE	16.580	91	10182019	42.40	PPBV		95
99)	p-DICHLOROBENZENE	16.659	146	9434738	51.05	PPBV		96
100)	sec-BUTYLBENZENE	16.702	134	3389691	52.25	PPBV	#	63
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9964483	41.33	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	3209884	42.88	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	9264152	51.54	PPBV		96
104)	n-BUTYLBENZENE	17.271	134	4068110	53.04	PPBV	#	67
105)	HEXACHLOROETHANE	17.614	117	5943910	48.19	PPBV		95
106)	HEXACHLOROBUTADIENE	18.972	225	6941797	42.04	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	8668660	50.18	PPBV		98
108)	NAPHTHALENE	18.666	128	15644412	41.73	PPBV		88
110)	TVHC as equiv Pentane	5.072	TIC	17678397	64.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

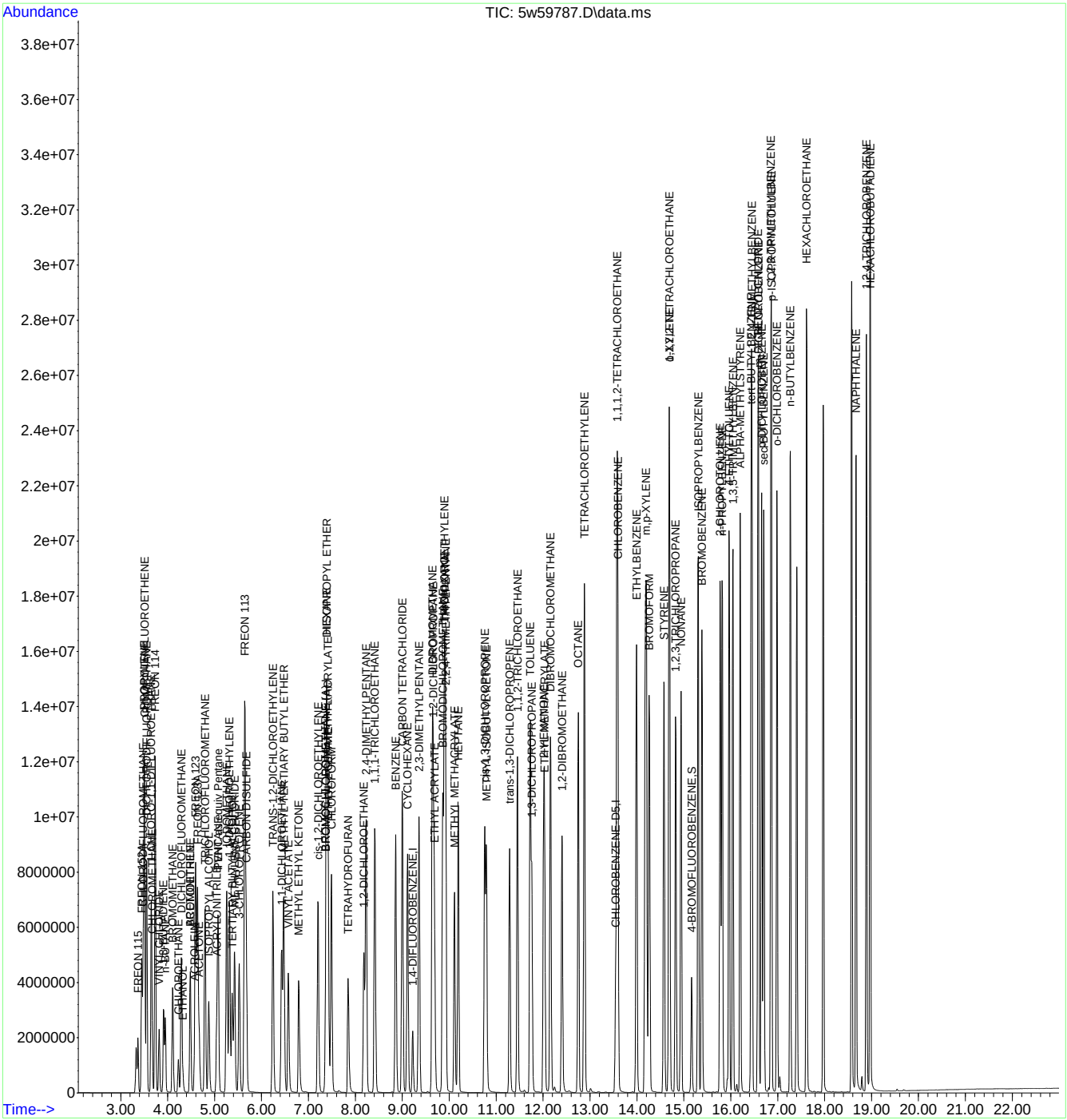
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

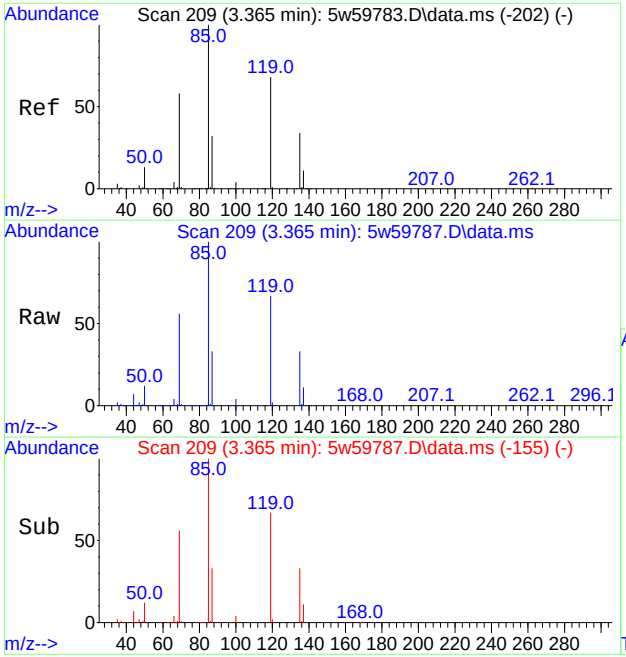
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

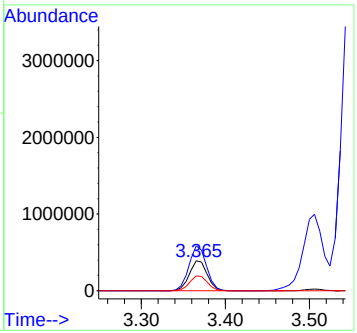


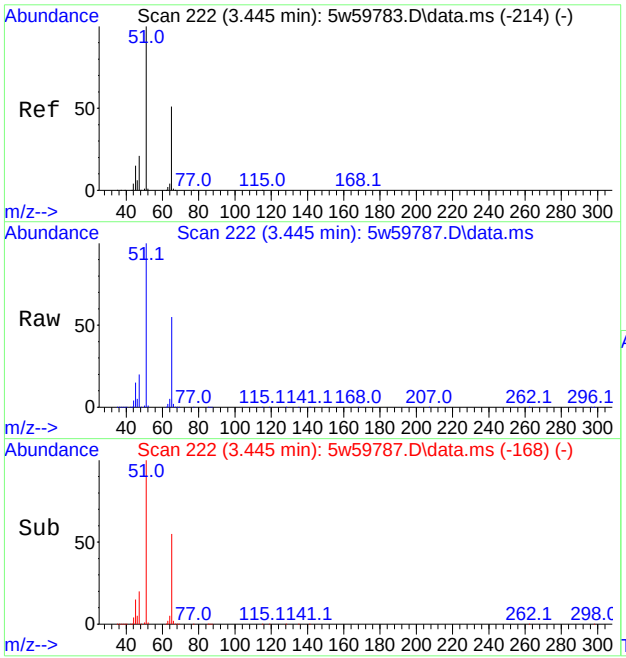


#2
FREON 115
Concen: 25.61 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:119 Resp: 581031

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.1	20.6	80.6

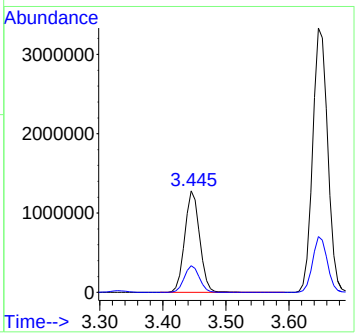


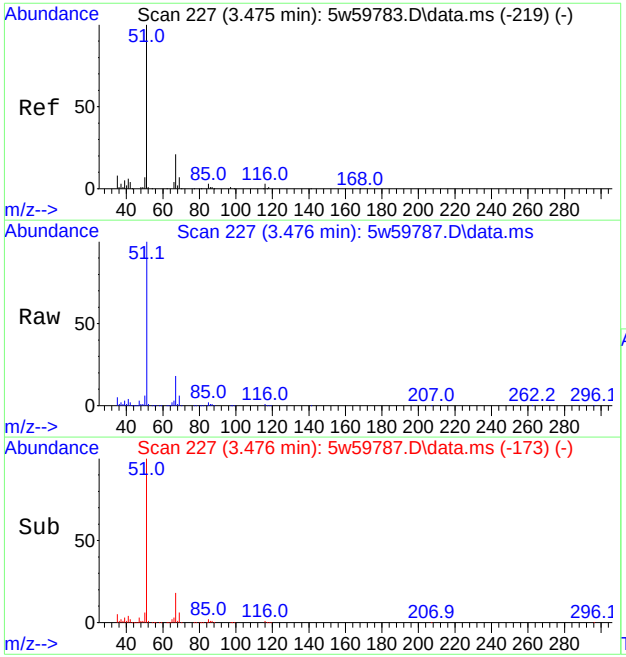


#3
FREON 152A
Concen: 69.10 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 2109561

Ion	Ratio	Lower	Upper
65	100		
45	26.7	0.0	60.0

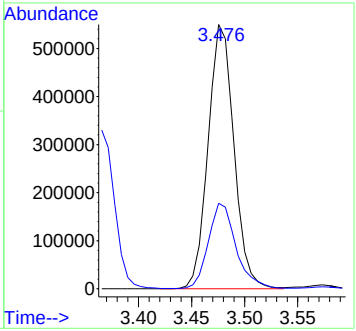


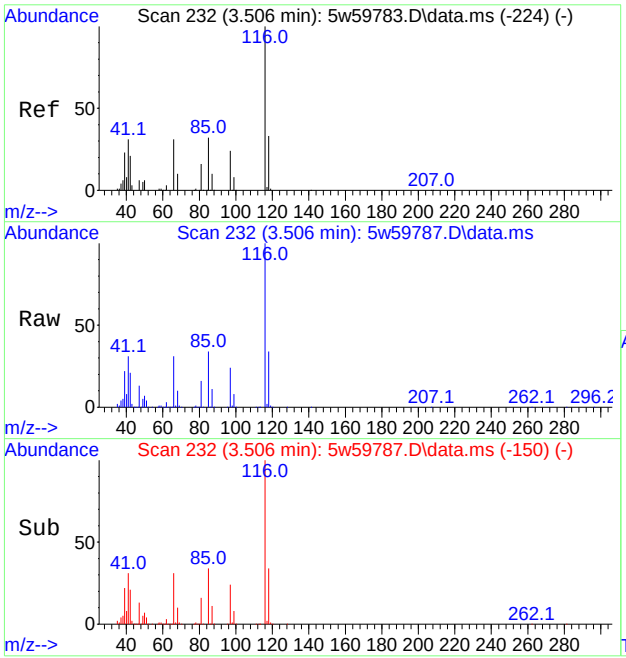


#4
CHLORODIFLUOROMETHANE
Concen: 63.03 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 930907

Ion	Ratio	Lower	Upper
67	100		
69	32.3	1.0	61.0

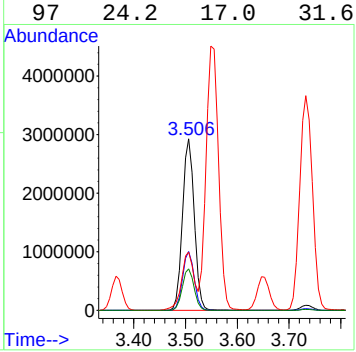


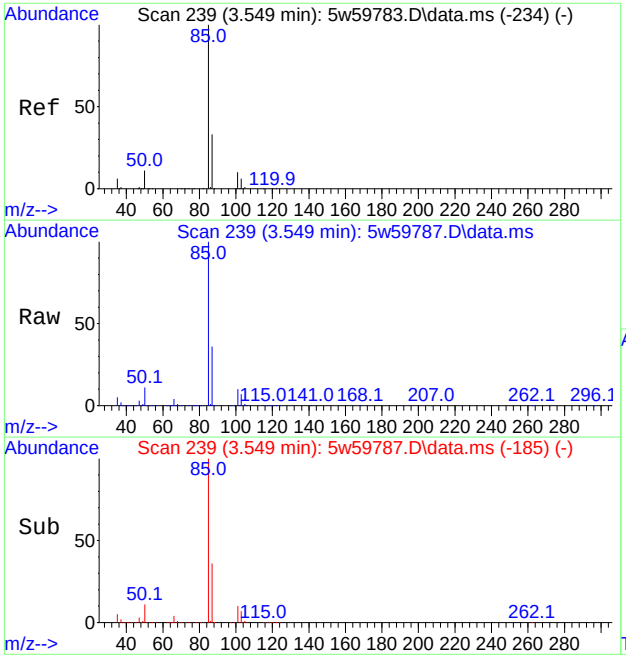


#5
CHLOROTRIFLUOROETHENE
Concen: 63.22 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:116 Resp: 4660403

Ion	Ratio	Lower	Upper
116	100		
118	33.9	22.9	42.5
85	36.8	23.7	44.1
97	24.2	17.0	31.6

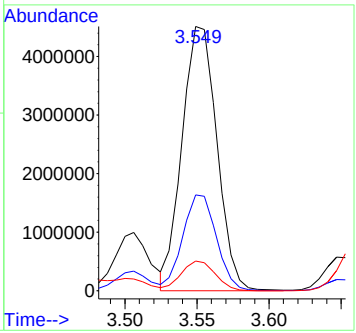


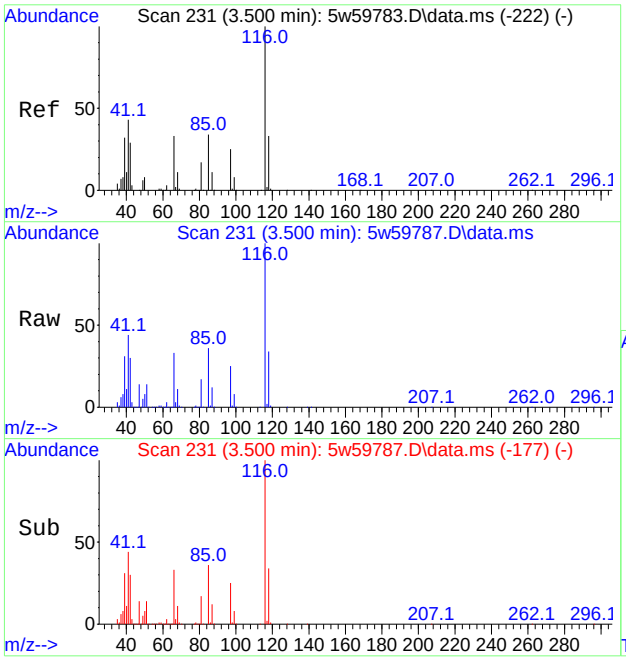


#6
DICHLORODIFLUOROMETHANE
Concen: 57.48 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 7605378

Ion	Ratio	Lower	Upper
85	100		
87	35.1	2.5	62.5
50	11.1	0.0	41.7

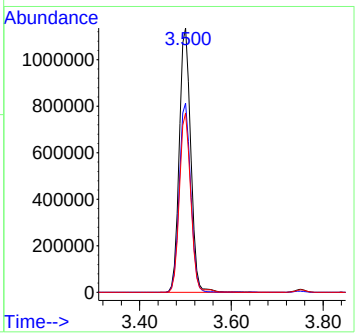


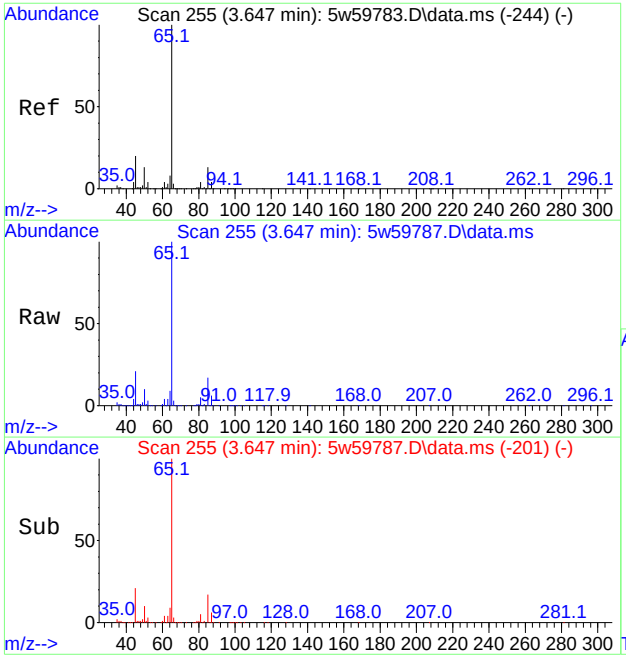


#7
PROPYLENE
Concen: 62.50 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1977365

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.3	36.3	96.3

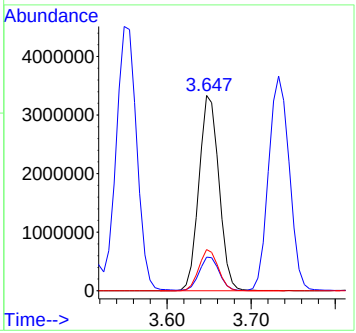


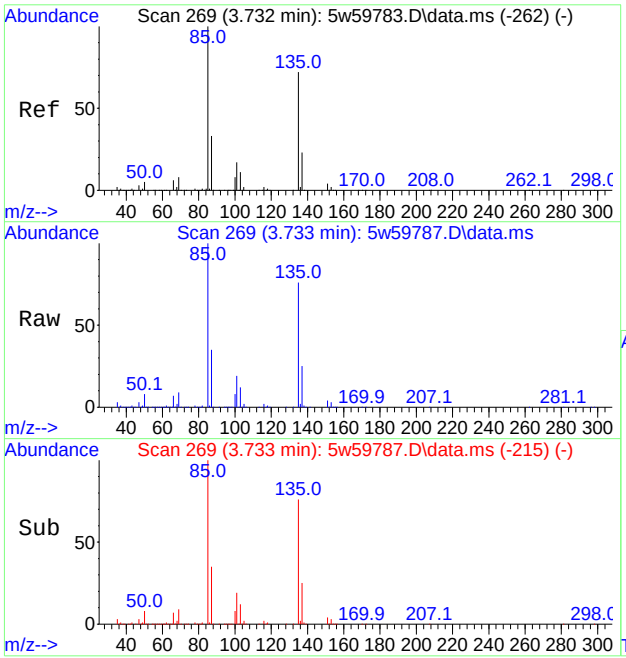


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 55.41 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 5527171

Ion	Ratio	Lower	Upper
65	100		
85	17.3	11.5	21.3
45	20.6	14.0	26.0

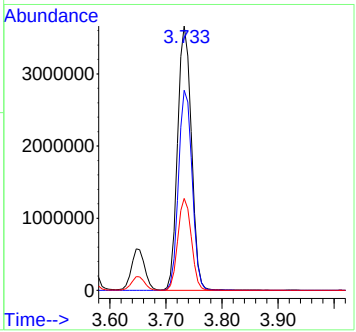


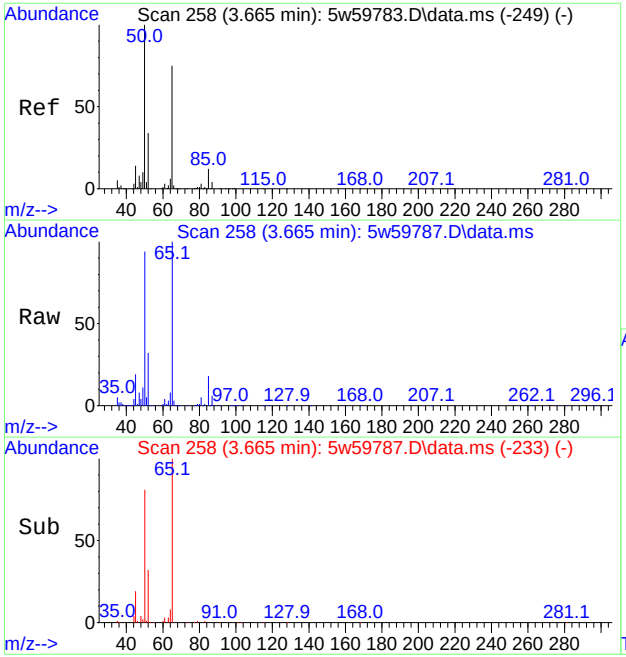


#9
FREON 114
Concen: 53.88 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 6296072

Ion	Ratio	Lower	Upper
85	100		
135	74.5	40.5	100.5
87	34.1	3.0	63.0

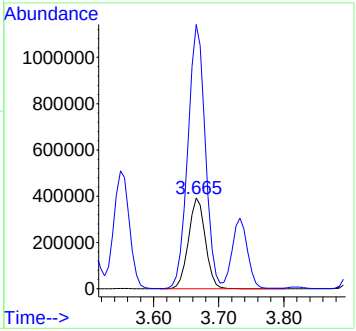


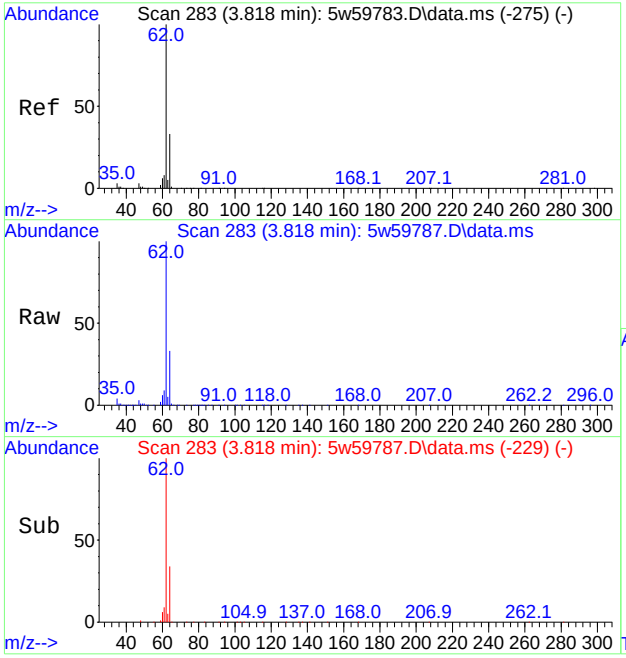


#10
CHLOROMETHANE
Concen: 54.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 706786

Ion	Ratio	Lower	Upper
52	100		
50	290.3	267.9	327.9

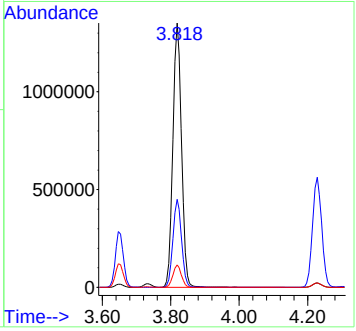


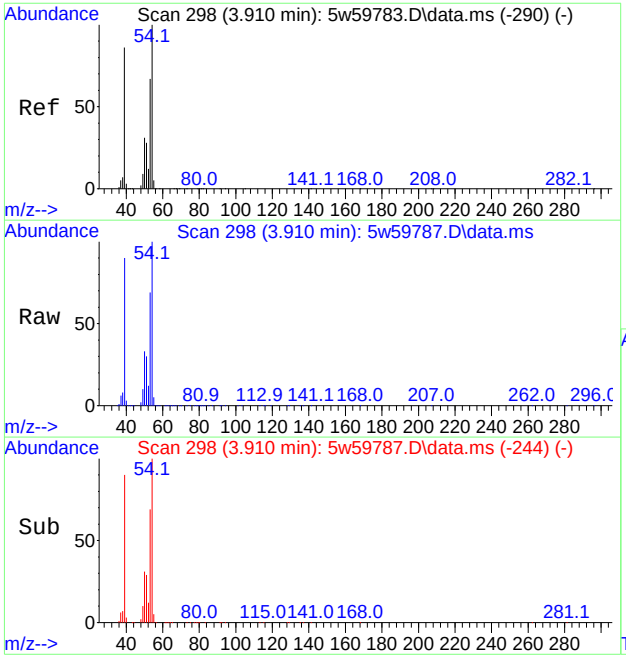


#11
VINYL CHLORIDE
Concen: 54.50 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 2396129

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

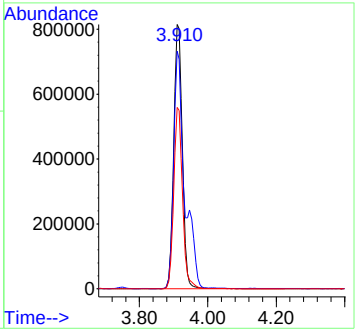


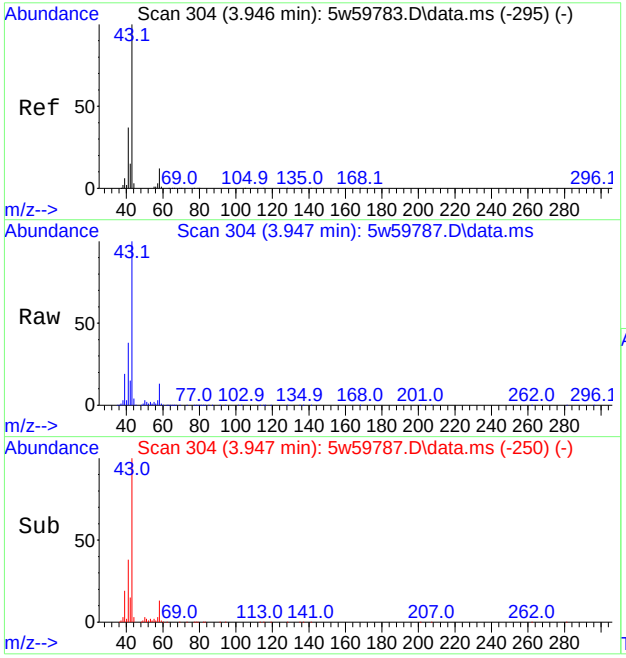


#12
1,3-BUTADIENE
Concen: 57.20 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 54 Resp: 1434792

Ion	Ratio	Lower	Upper
54	100		
39	115.1	82.0	142.0
53	70.3	40.2	100.2

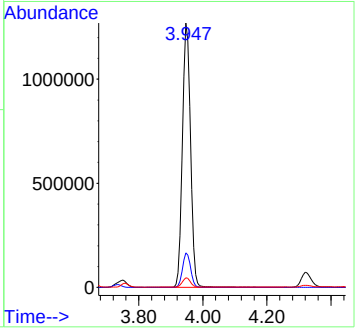


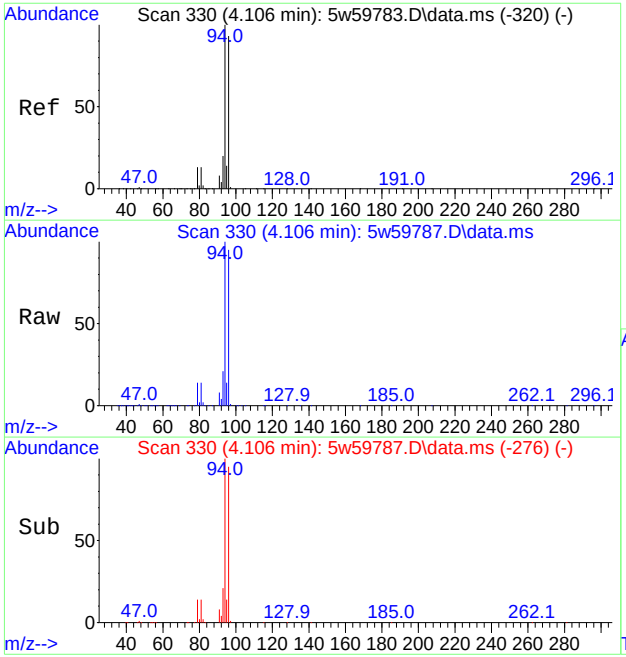


#13
n-BUTANE
Concen: 56.04 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 2229721

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.6	0.0	34.9

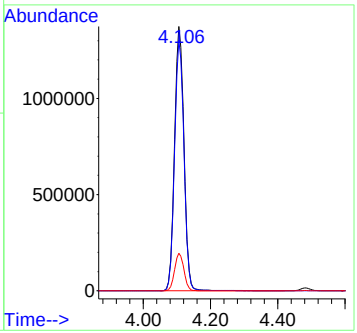


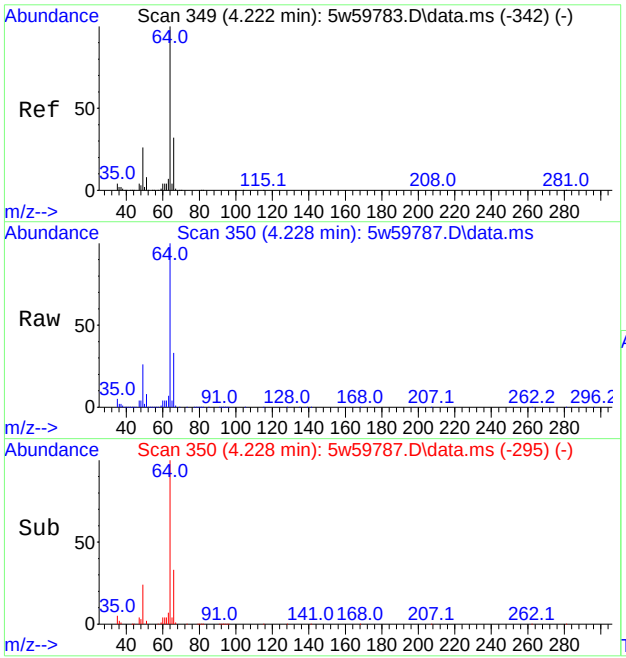


#14
BROMOMETHANE
Concen: 57.99 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 94 Resp: 2666902

Ion	Ratio	Lower	Upper
94	100		
96	94.9	65.3	125.3
95	14.2	0.0	44.1

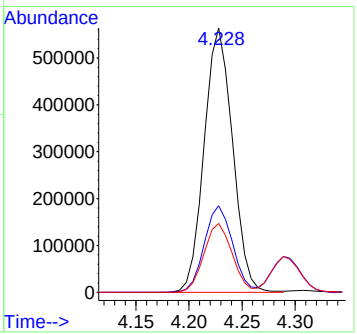


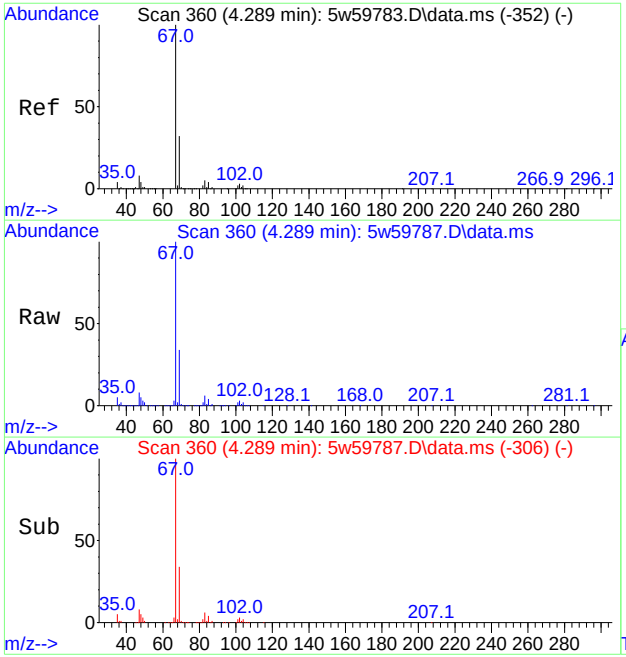


#15
CHLOROETHANE
Concen: 54.16 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 64 Resp: 1048912

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

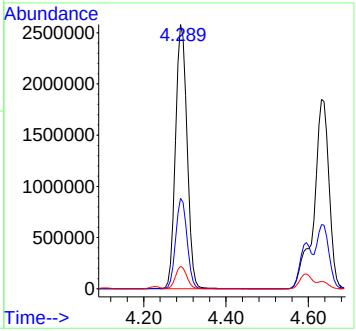


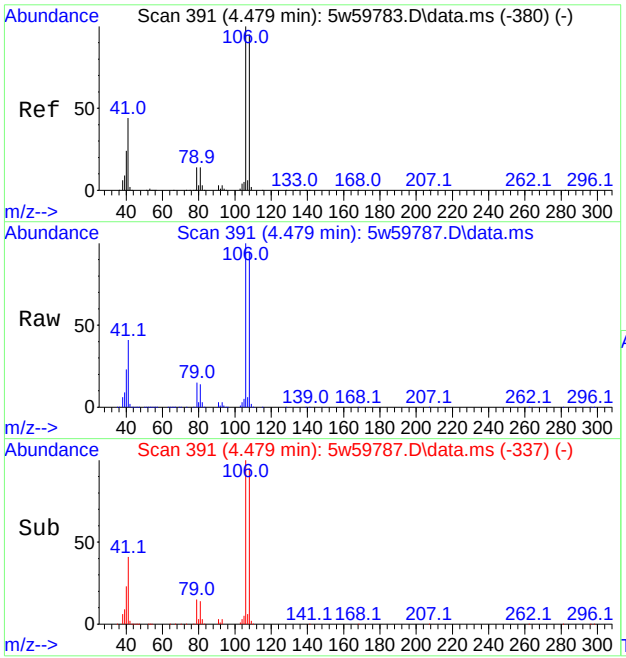


#16
DICHLOROFLUOROMETHANE
Concen: 54.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 5025383

Ion	Ratio	Lower	Upper
67	100		
69	33.7	22.7	42.3
47	8.4	5.6	10.4

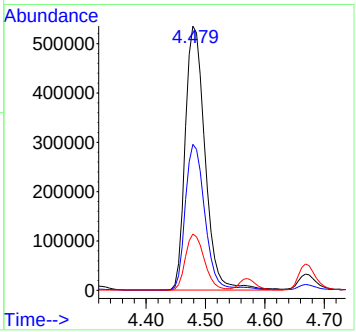


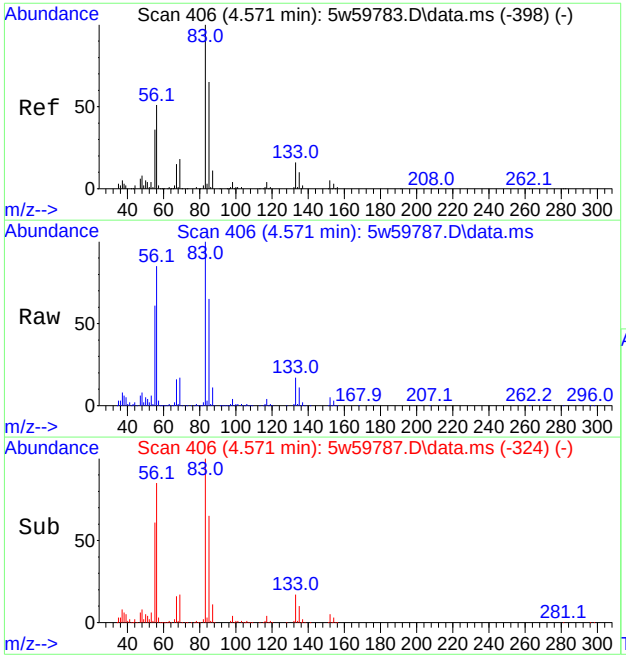


#17
ACETONITRILE
Concen: 52.74 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1245621

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.3	13.4	24.8

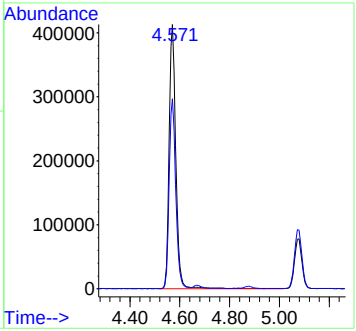


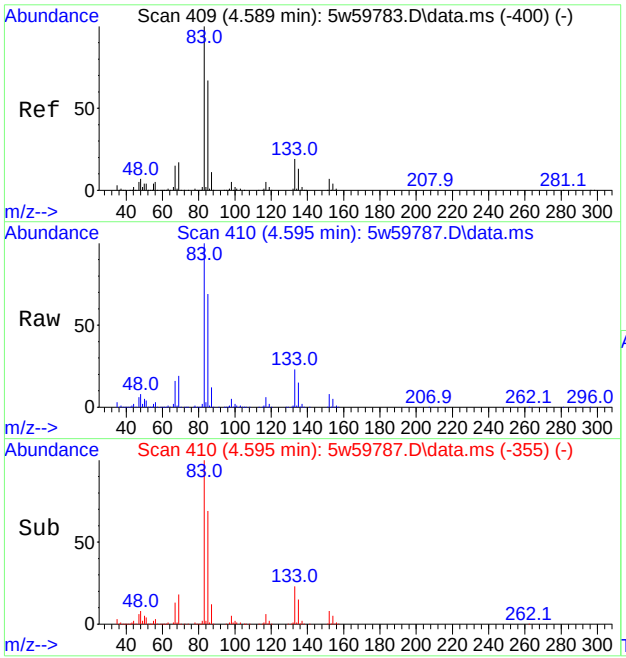


#18
ACROLEIN
Concen: 54.68 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 56 Resp: 762905

Ion	Ratio	Lower	Upper
56	100		
55	70.9	46.6	86.6

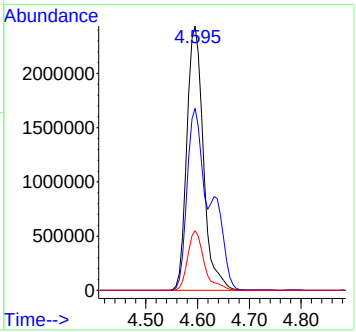


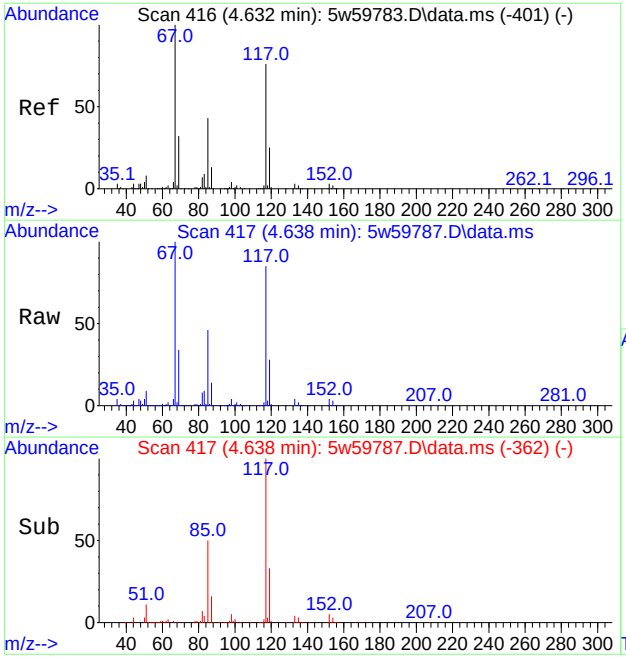


#19
FREON 123
Concen: 53.17 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 5407858

Ion	Ratio	Lower	Upper
83	100		
85	67.6	34.0	94.0
133	22.7	0.0	50.7

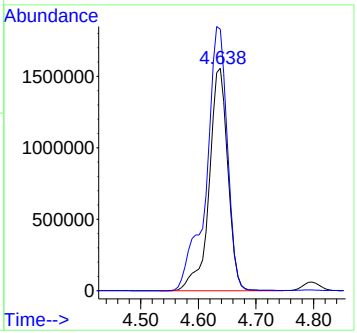


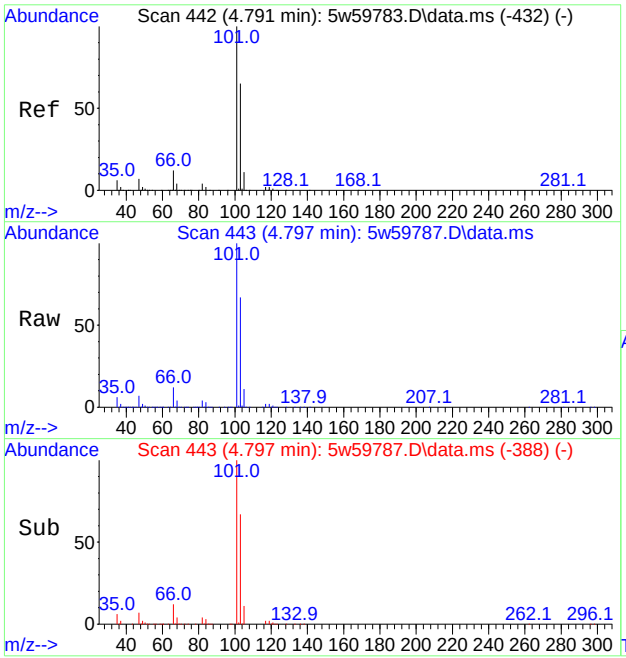


#20
FREON 123A
Concen: 57.82 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 3495792

Ion	Ratio	Lower	Upper
117	100		
67	134.2	114.6	174.6

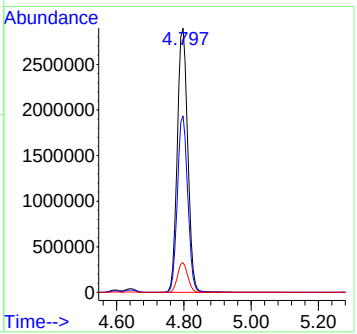


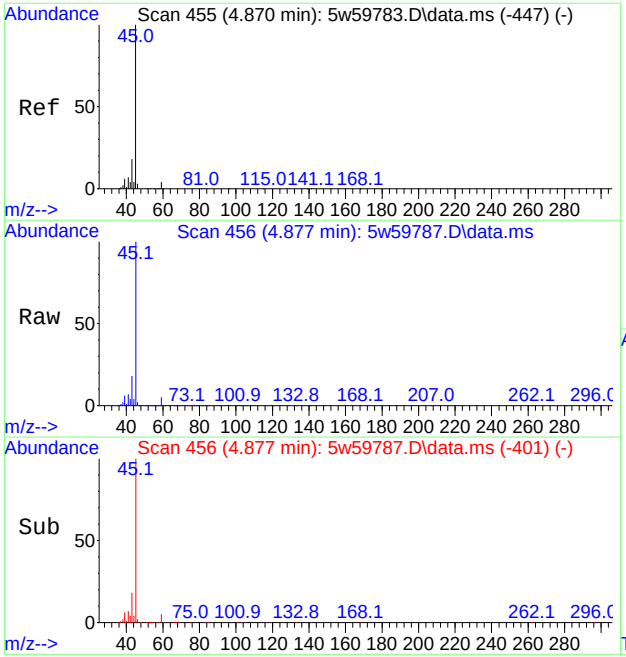


#21
TRICHLOROFLUOROMETHANE
Concen: 56.50 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:101 Resp: 6263951

Ion	Ratio	Lower	Upper
101	100		
103	66.2	35.0	95.0
105	11.1	0.0	40.7

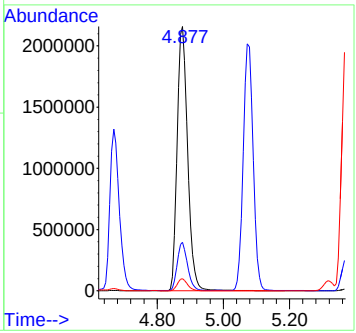


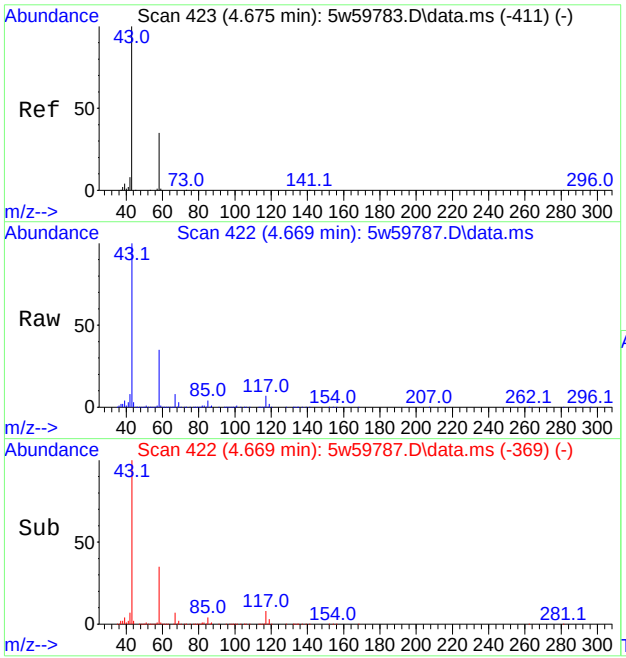


#22
ISOPROPYL ALCOHOL
Concen: 59.23 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 4774264

Ion	Ratio	Lower	Upper
45	100		
43	18.3	0.0	47.8
59	4.5	0.0	34.1

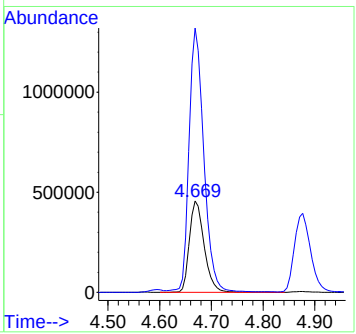


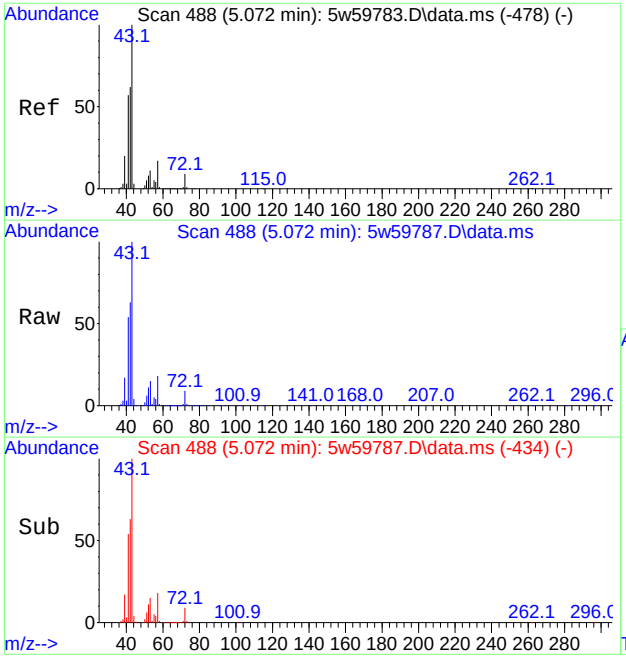


#23
ACETONE
Concen: 55.35 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 909361

Ion	Ratio	Lower	Upper
58	100		
43	286.4	252.3	312.3

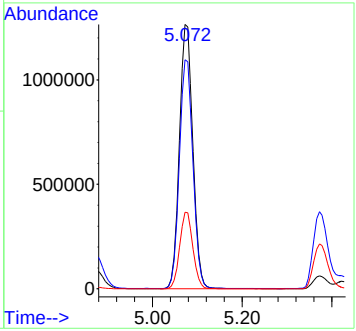


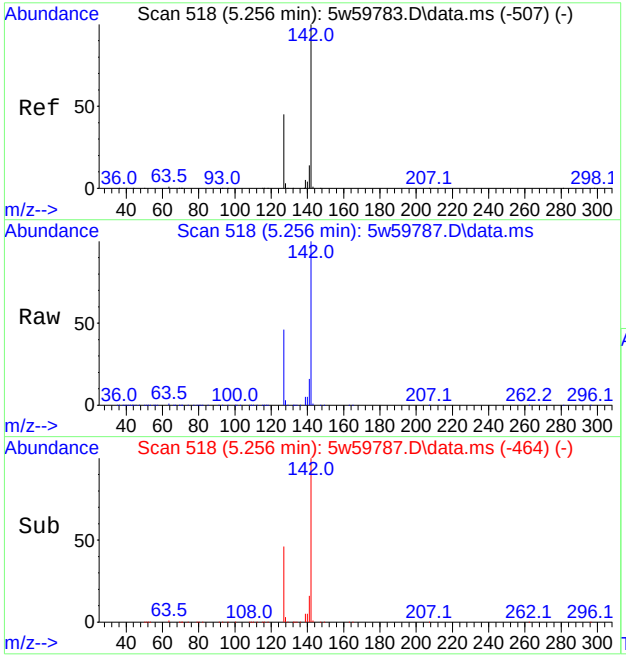


#24
PENTANE
Concen: 64.00 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 42 Resp: 2631624

Ion	Ratio	Lower	Upper
42	100		
41	88.0	62.3	122.3
57	28.7	0.0	57.7

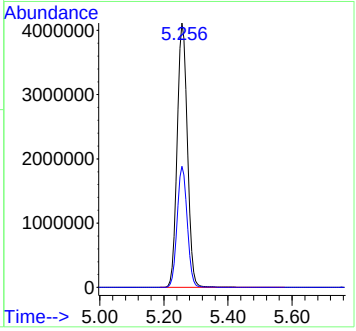


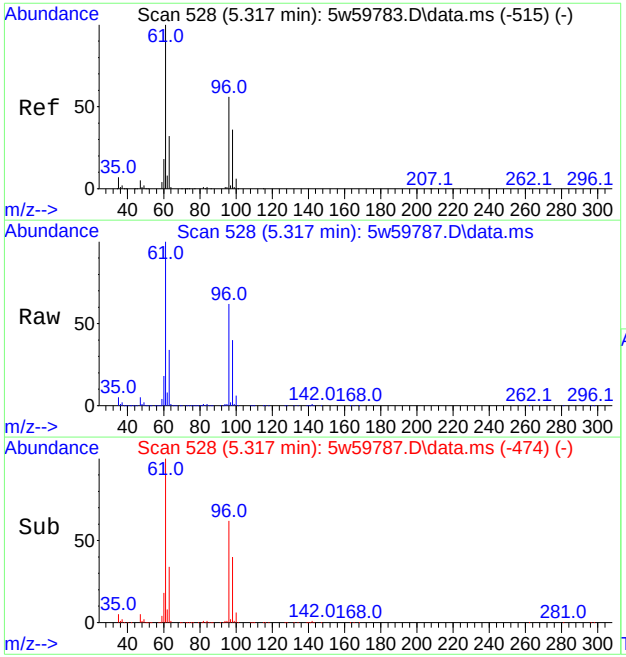


#25
IODOMETHANE
Concen: 64.39 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:142 Resp: 9114140

Ion	Ratio	Lower	Upper
142	100		
127	45.3	16.0	76.0

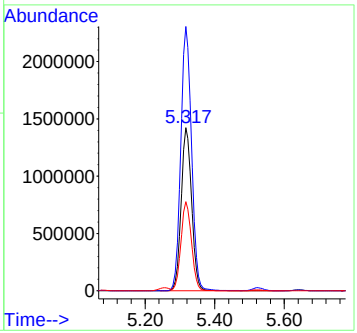


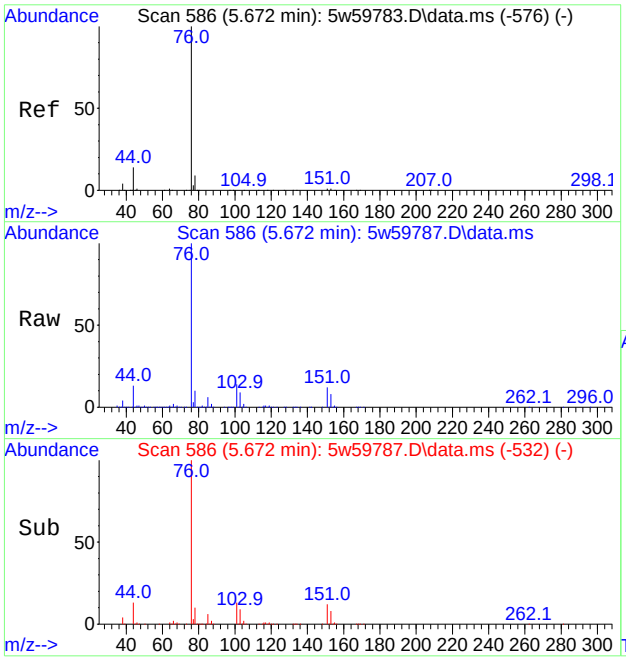


#26
1,1-DICHLOROETHYLENE
Concen: 64.07 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 2972573

Ion	Ratio	Lower	Upper
96	100		
61	166.3	148.5	208.5
63	55.0	27.4	87.4

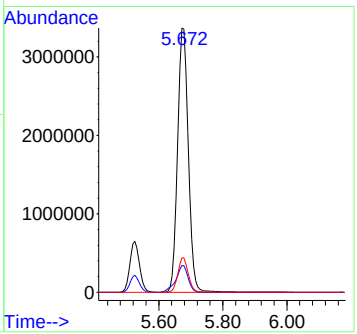


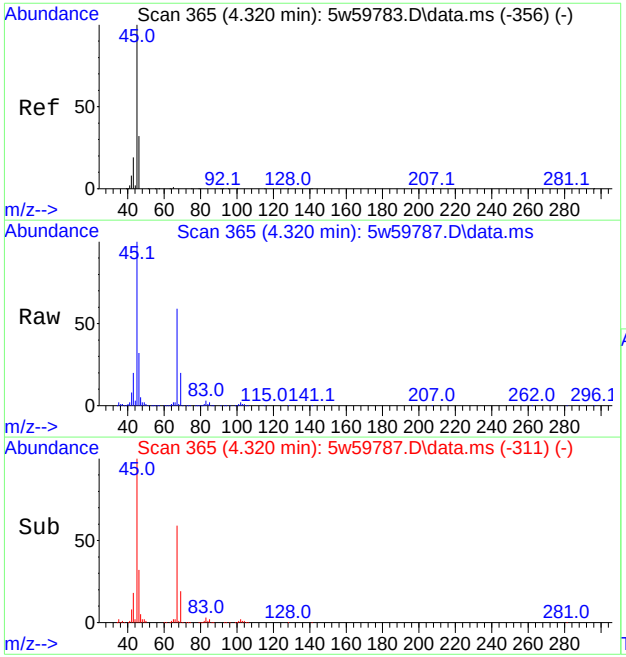


#27
CARBON DISULFIDE
Concen: 61.73 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 7844304

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	12.8	0.0	44.6

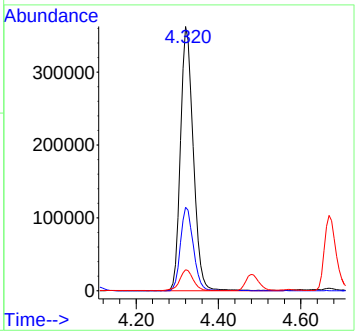


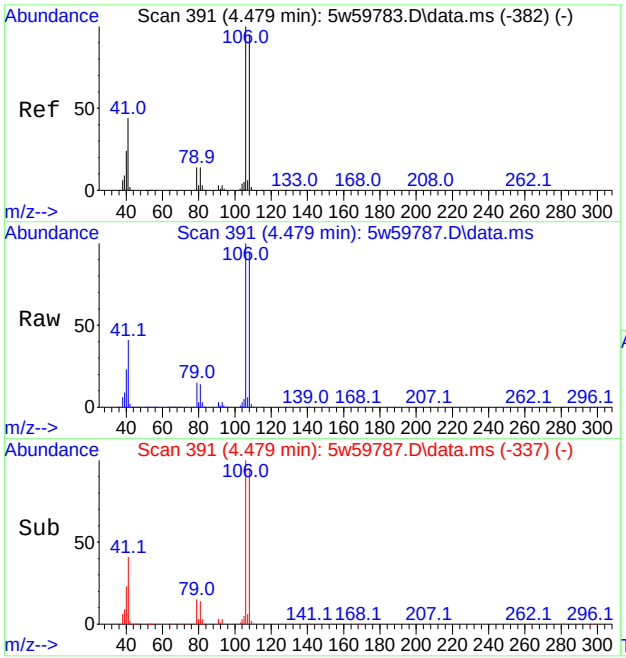


#28
ETHANOL
Concen: 51.79 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 782956

Ion	Ratio	Lower	Upper
45	100		
46	31.9	2.0	62.0
42	8.5	0.0	38.5

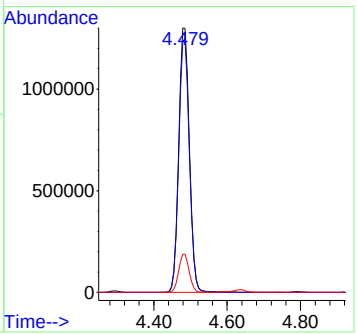


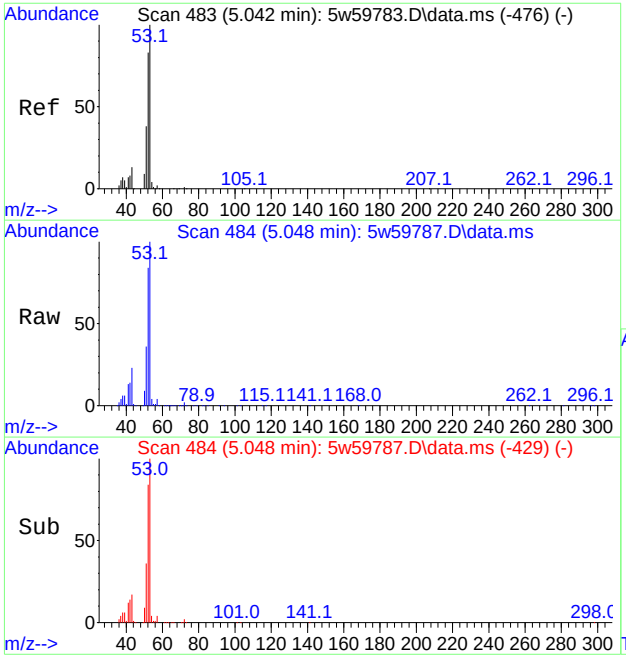


#29
BROMOETHENE
Concen: 57.30 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 2638149

Ion	Ratio	Lower	Upper
106	100		
108	95.2	65.6	125.6
81	14.3	0.0	43.9

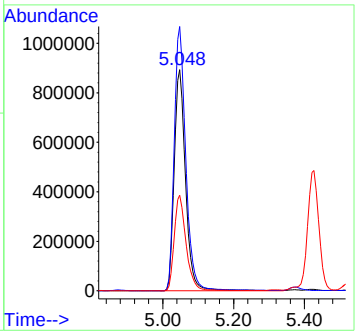


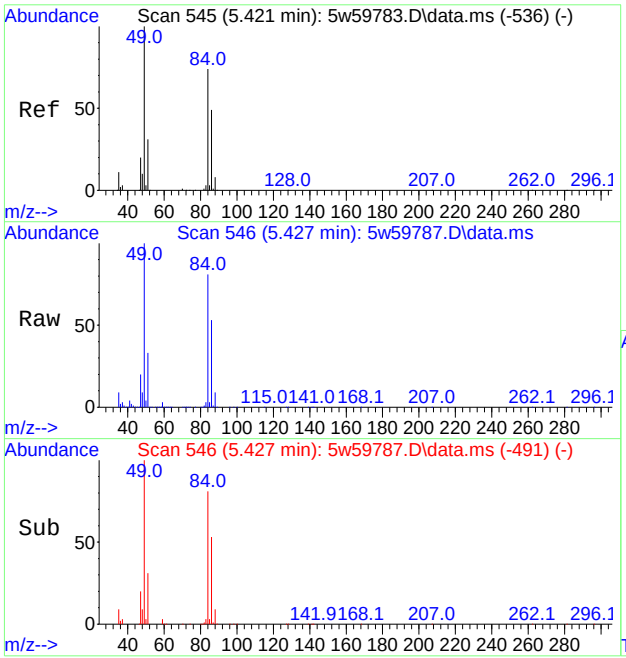


#30
ACRYLONITRILE
Concen: 68.16 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 1983513

Ion	Ratio	Lower	Upper
52	100		
53	121.8	85.8	159.4
51	45.1	32.3	60.1

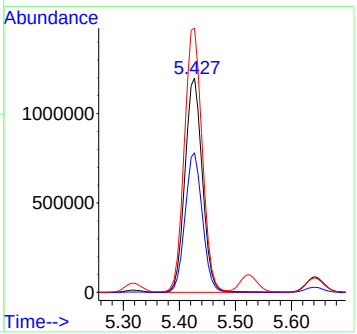


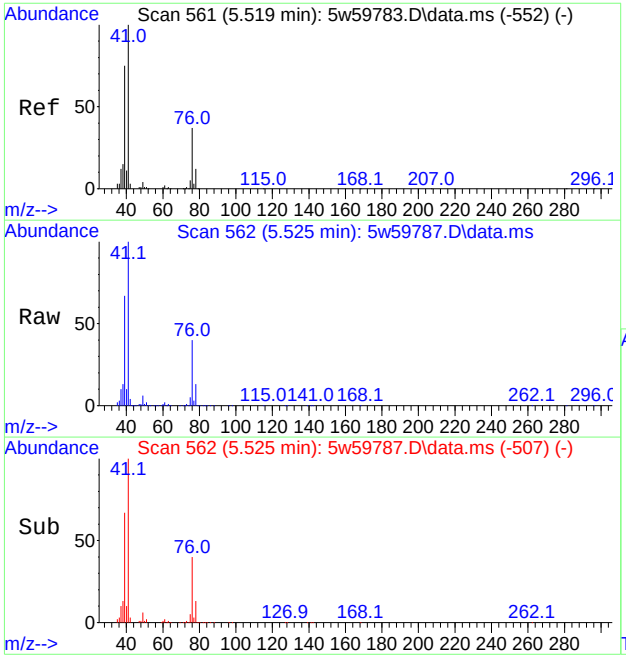


#31
METHYLENE CHLORIDE
Concen: 62.87 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 2586702

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	126.9	105.3	165.3

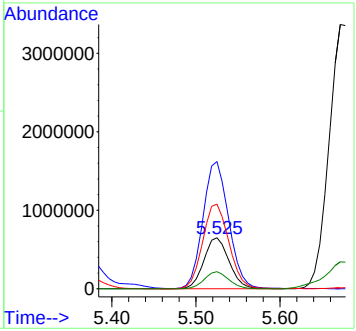


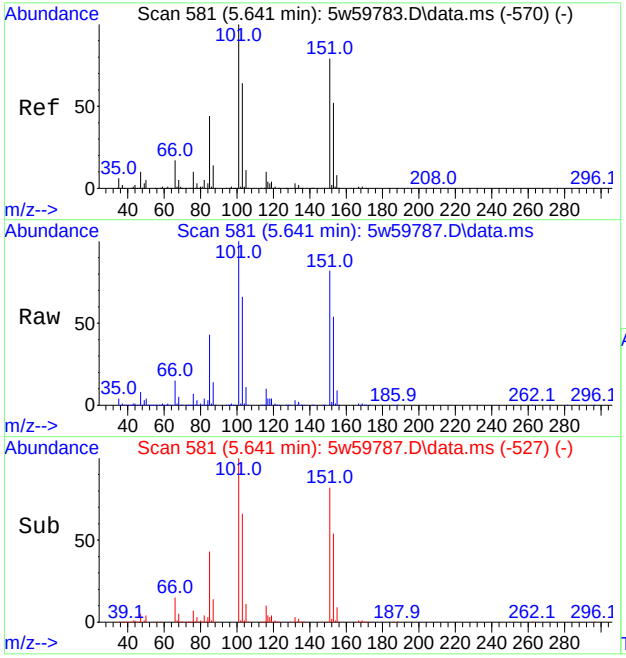


#32
3-CHLOROPROPENE
Concen: 64.21 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 1356999

Ion	Ratio	Lower	Upper
76	100		
41	255.7	240.8	300.8
39	172.9	173.6	233.6#
78	32.9	2.8	62.8

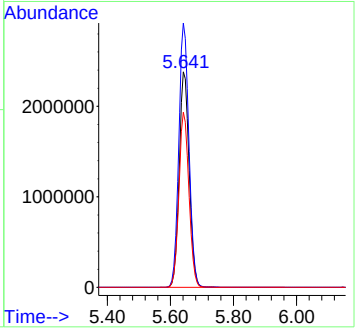


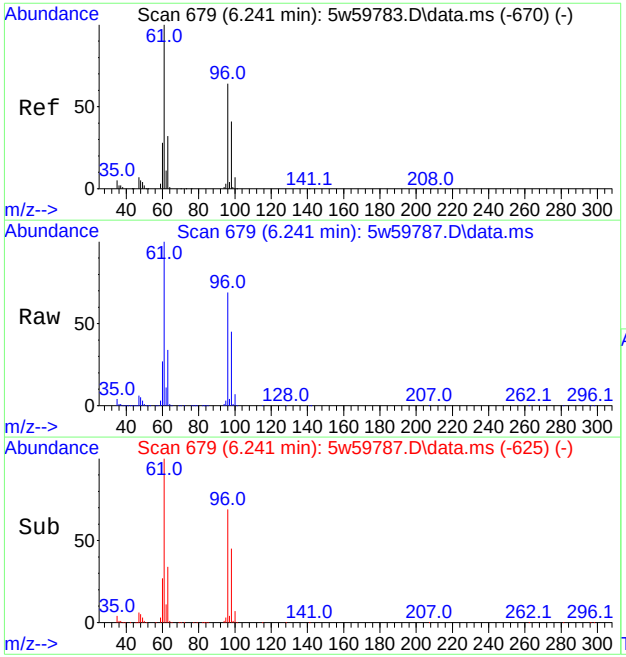


#33
FREON 113
Concen: 62.99 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:151 Resp: 5255099

Ion	Ratio	Lower	Upper
151	100		
101	124.0	97.5	157.5
103	81.5	52.5	112.5

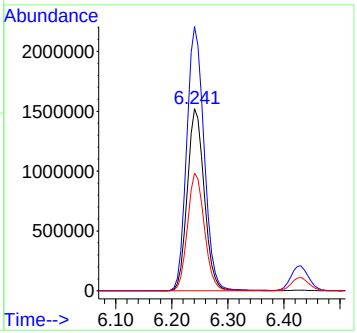


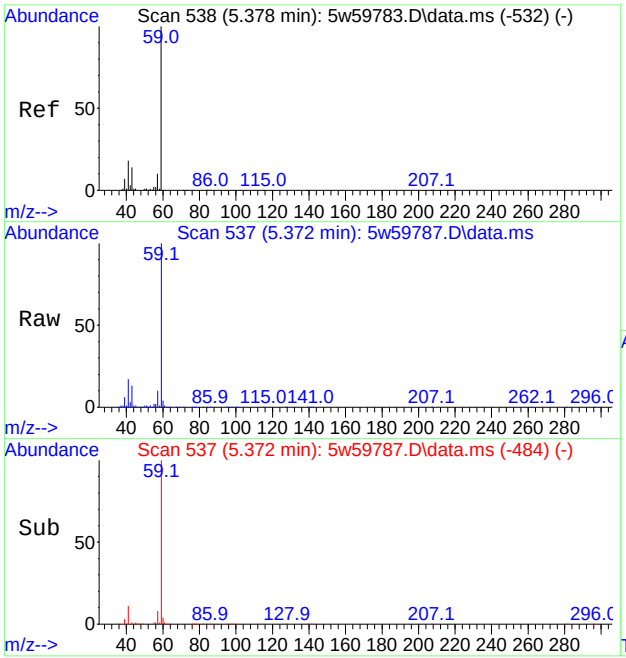


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 65.25 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3195584

Ion	Ratio	Lower	Upper
96	100		
61	148.6	126.4	186.4
98	64.5	34.1	94.1

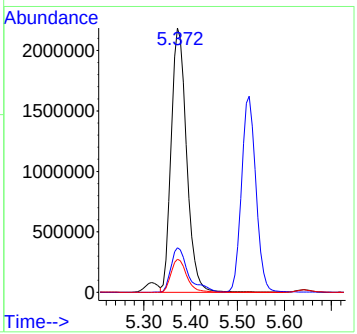


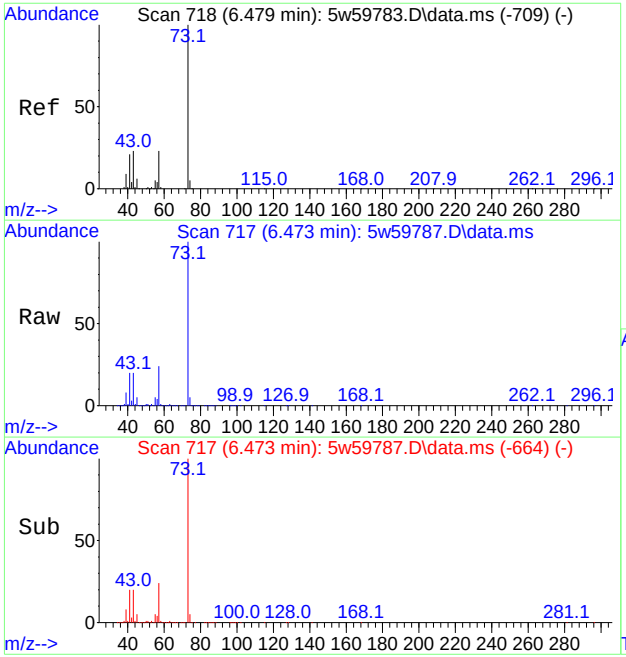


#35
TERTIARY BUTYL ALCOHOL
Concen: 52.68 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 4989539

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	12.7	0.0	44.1

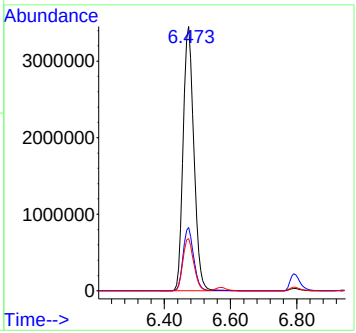


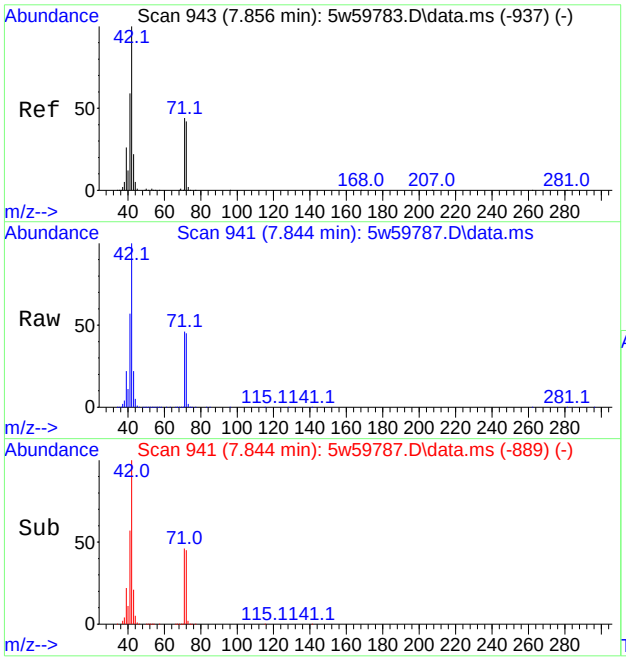


#36
METHYL TERTIARY BUTYL ETHER
Concen: 63.24 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 73 Resp: 7764187

Ion	Ratio	Lower	Upper
73	100		
57	23.5	0.0	53.1
41	19.8	0.0	50.6

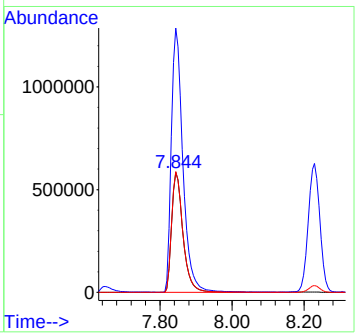


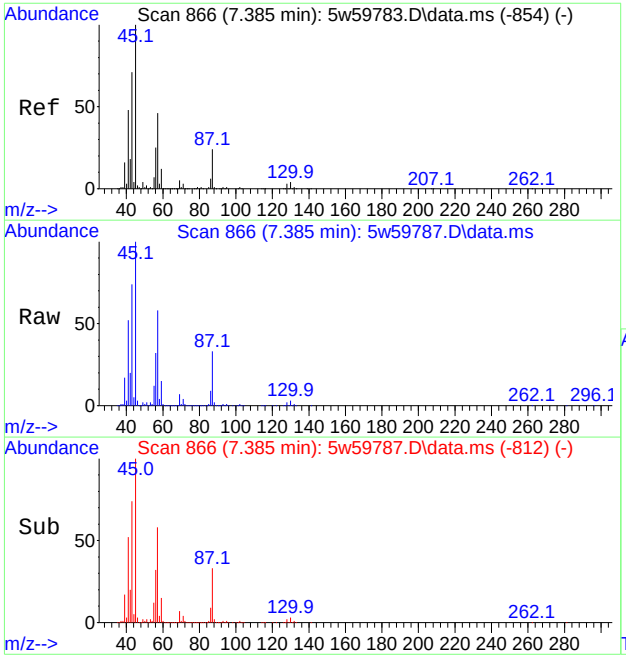


#37
TETRAHYDROFURAN
Concen: 65.77 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1279396

Ion	Ratio	Lower	Upper
72	100		
42	223.5	202.4	262.4
71	100.6	71.1	131.1

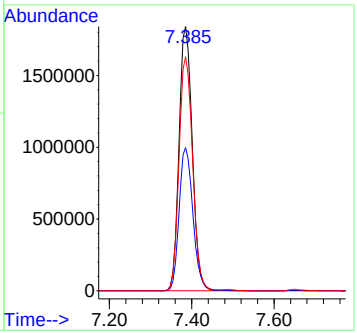


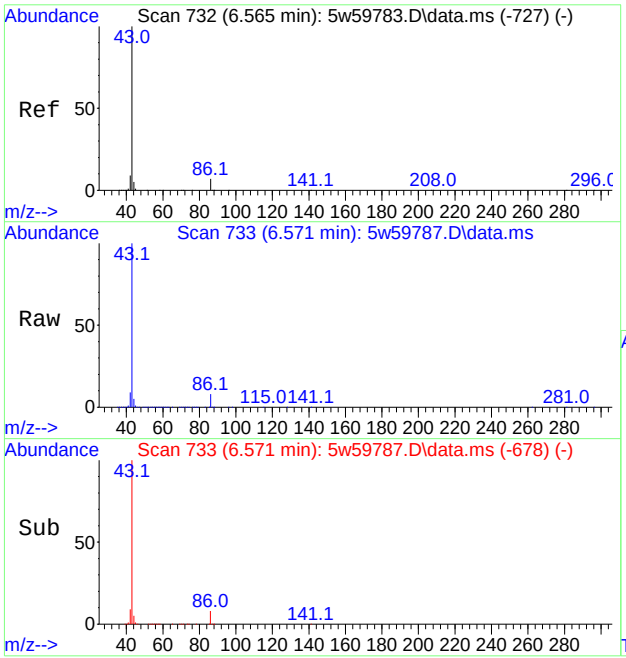


#38
HEXANE
Concen: 58.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 4098725

Ion	Ratio	Lower	Upper
57	100		
56	56.6	25.9	85.9
41	91.2	74.7	134.7

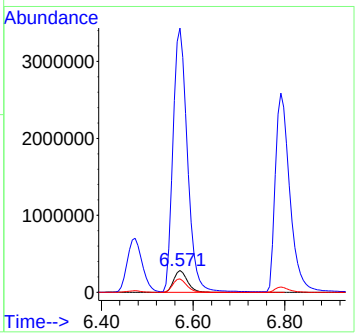


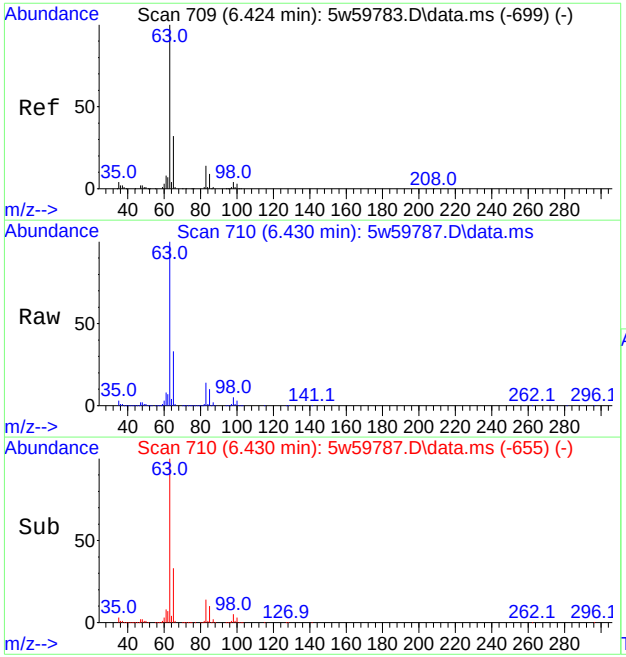


#39
VINYL ACETATE
Concen: 69.16 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 86 Resp: 595335

Ion	Ratio	Lower	Upper
86	100		
43	1251.0	1379.7	1439.7#
44	62.3	36.9	96.9

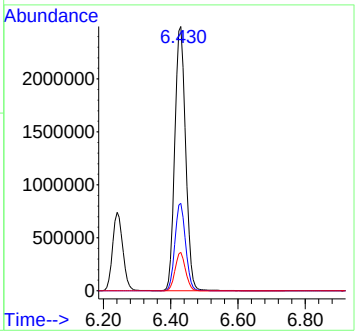


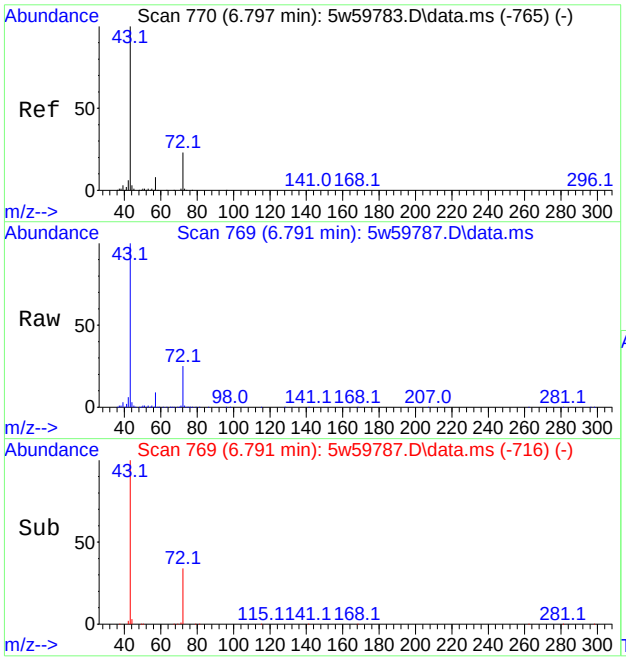


#40
1,1-DICHLOROETHANE
Concen: 63.37 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 5580661

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.7	61.7
83	14.0	0.0	43.5

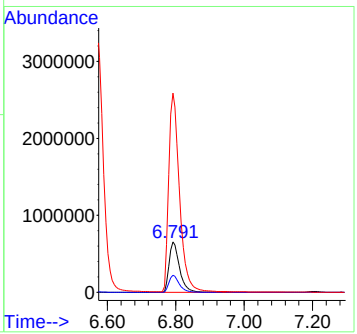


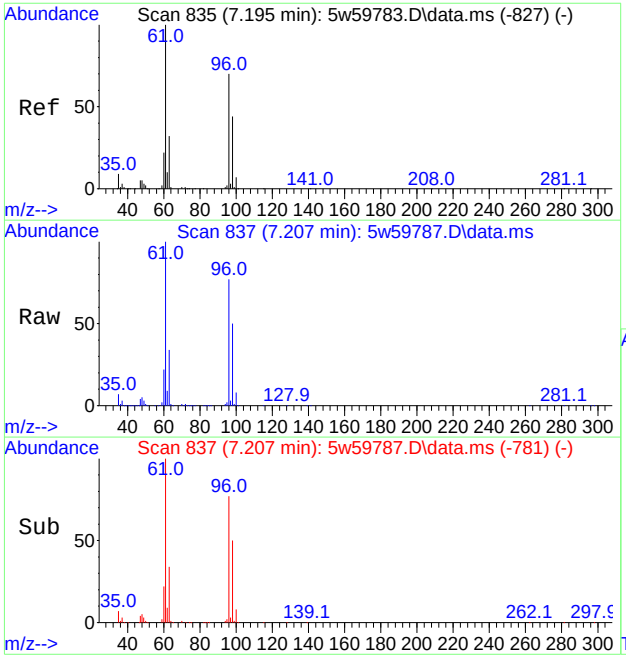


#41
METHYL ETHYL KETONE
Concen: 68.19 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1403846

Ion	Ratio	Lower	Upper
72	100		
57	34.0	4.8	64.8
43	394.5	415.9	475.9#

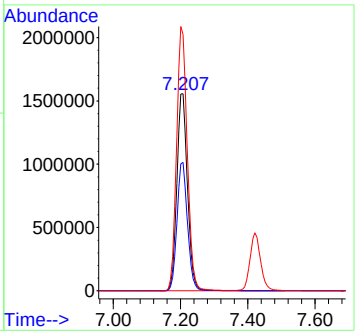


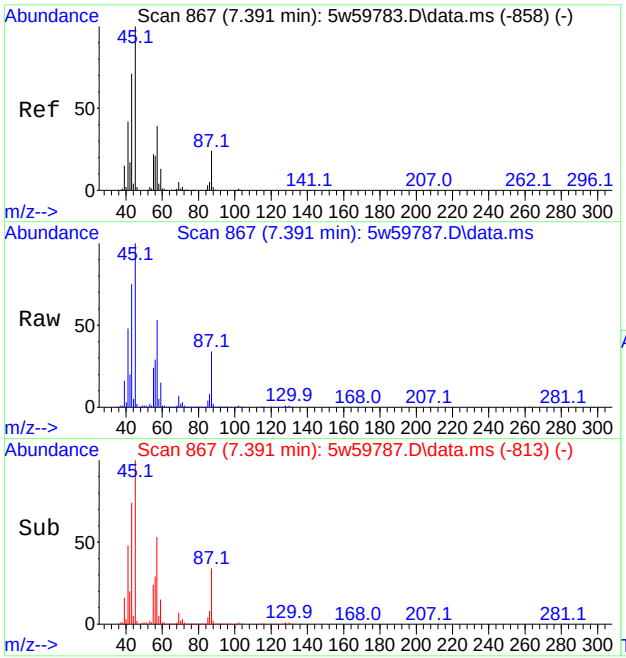


#42
cis-1,2-DICHLOROETHYLENE
Concen: 66.53 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3406006

Ion	Ratio	Lower	Upper
96	100		
98	64.6	34.0	94.0
61	134.9	111.5	171.5

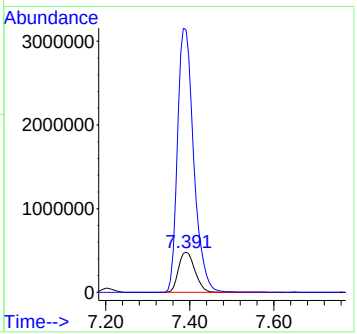


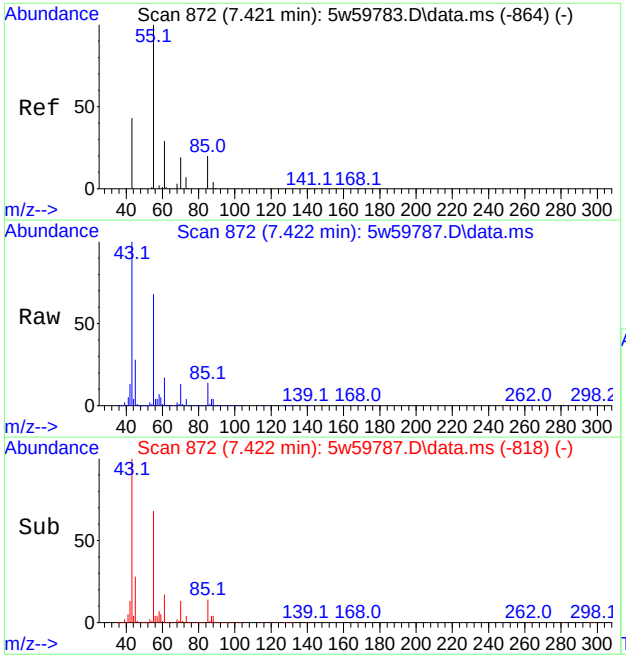


#43
DIISOPROPYL ETHER
Concen: 59.80 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 1304563

Ion	Ratio	Lower	Upper
59	100		
45	649.0	720.9	780.9#

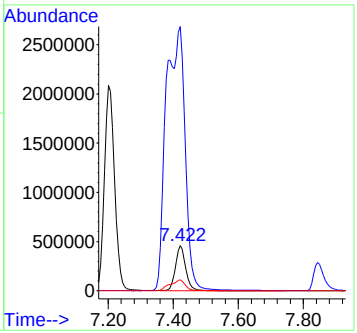


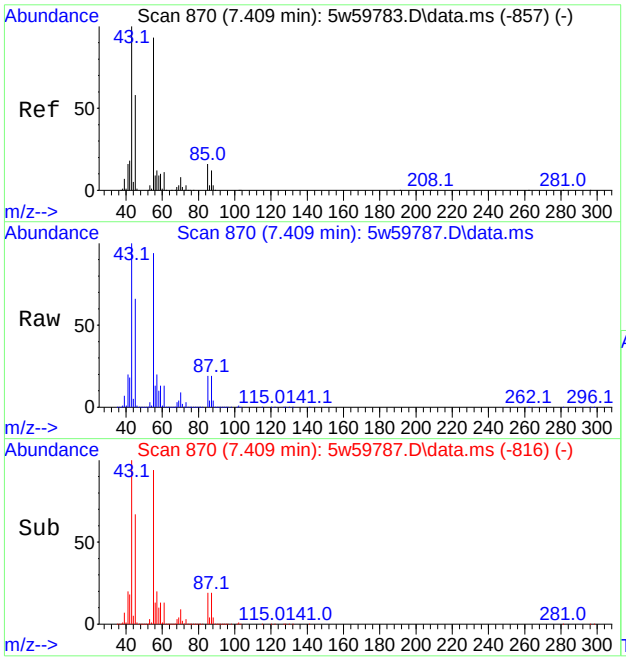


#44
ETHYL ACETATE
Concen: 62.87 PPBV m
RT: 7.422 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 61 Resp: 1009100

Ion	Ratio	Lower	Upper
61	100		
43	545.0	560.5	620.5#
88	36.8	4.5	64.5

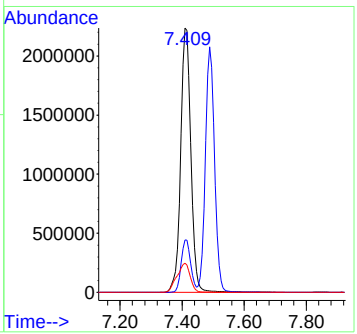


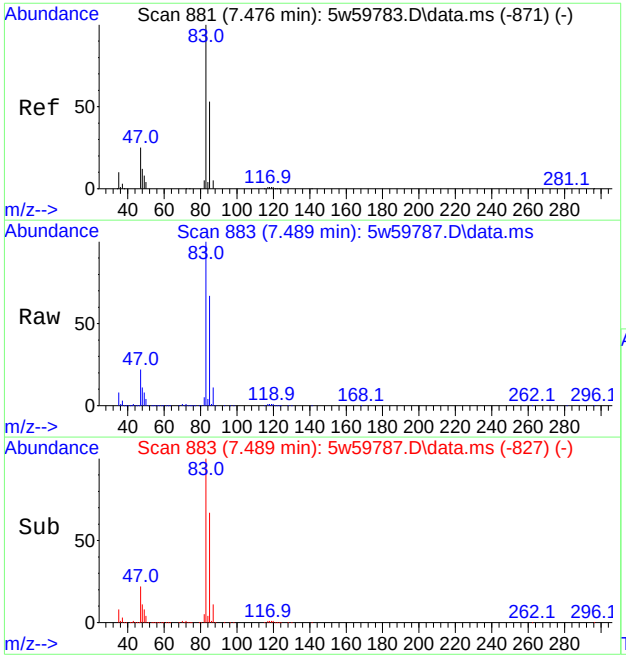


#45
METHYL ACRYLATE
Concen: 59.04 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 5147084

Ion	Ratio	Lower	Upper
55	100		
85	18.4	10.9	20.3
58	14.2	9.4	17.6

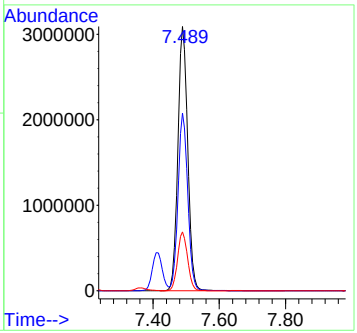


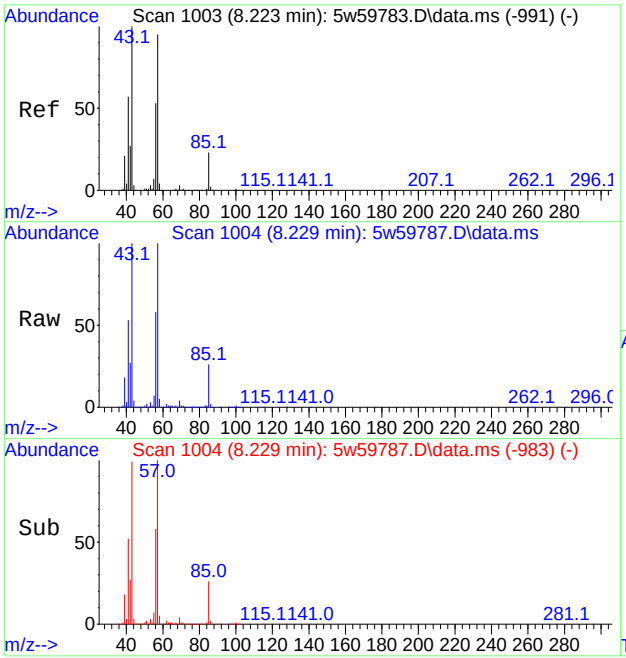


#46
CHLOROFORM
Concen: 62.45 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 6393103

Ion	Ratio	Lower	Upper
83	100		
85	66.7	35.6	95.6
47	22.7	0.0	55.2

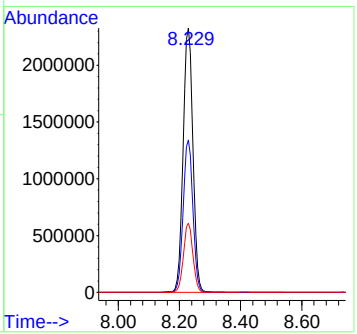


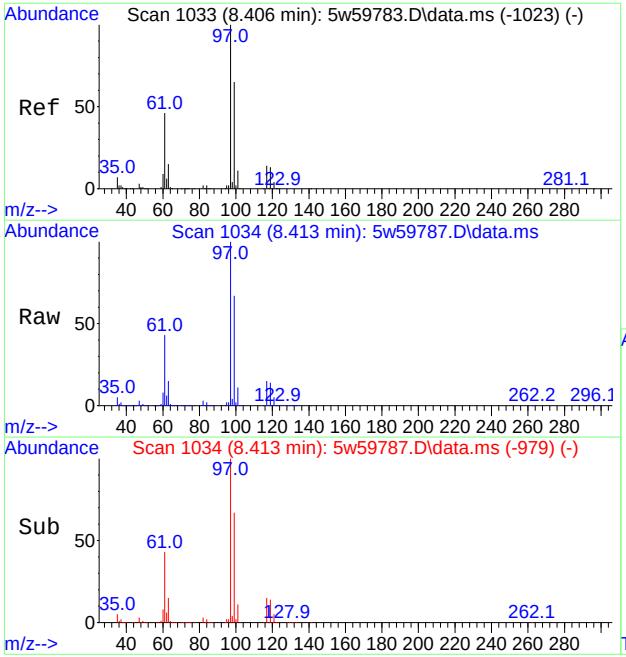


#47
2,4-DIMETHYLPENTANE
Concen: 62.87 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 5181431

Ion	Ratio	Lower	Upper
57	100		
56	57.5	26.5	86.5
85	25.4	0.0	53.8

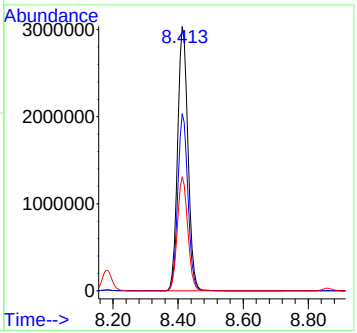


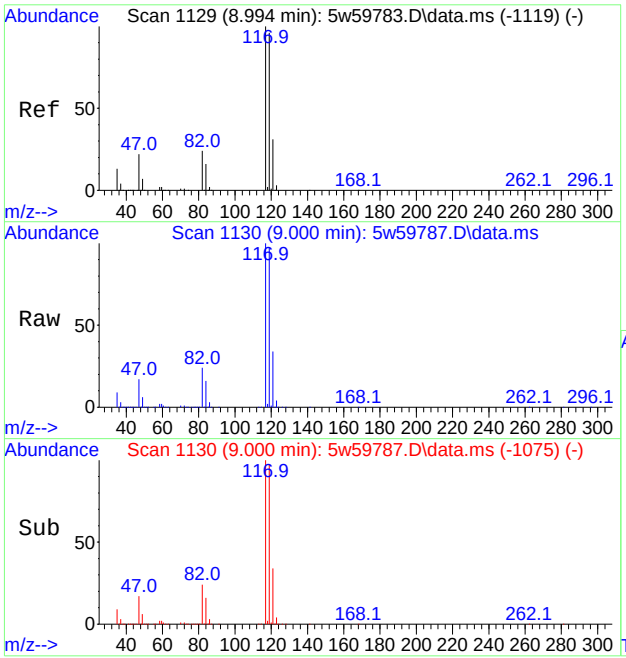


#48
1,1,1-TRICHLOROETHANE
Concen: 62.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 97 Resp: 6744194

Ion	Ratio	Lower	Upper
97	100		
99	66.0	34.8	94.8
61	43.4	15.8	75.8

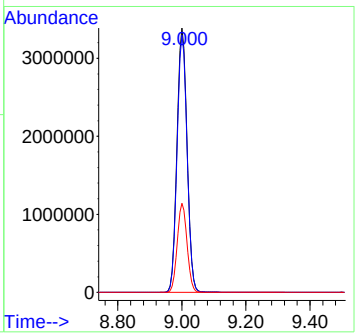


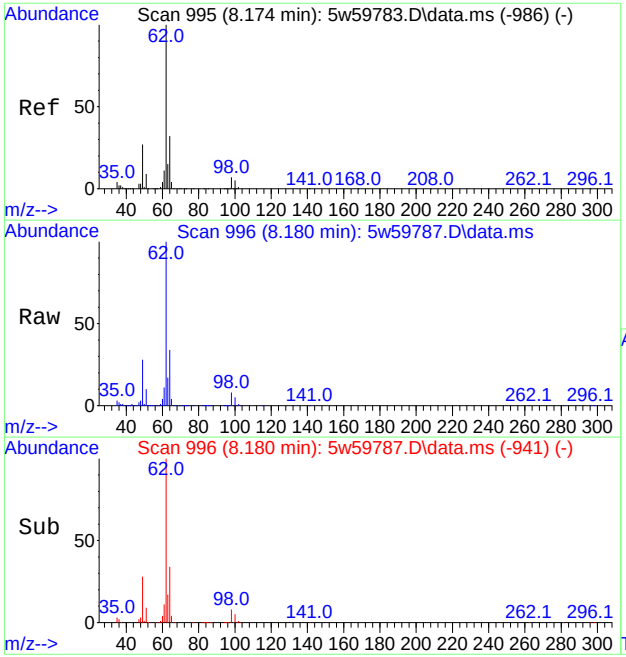


#49
CARBON TETRACHLORIDE
Concen: 61.67 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 7391895

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	32.8	1.3	61.3

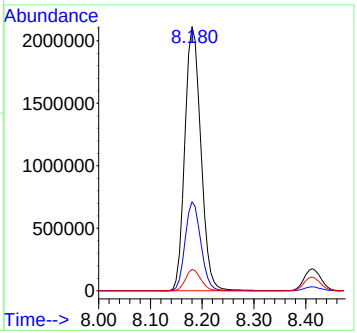


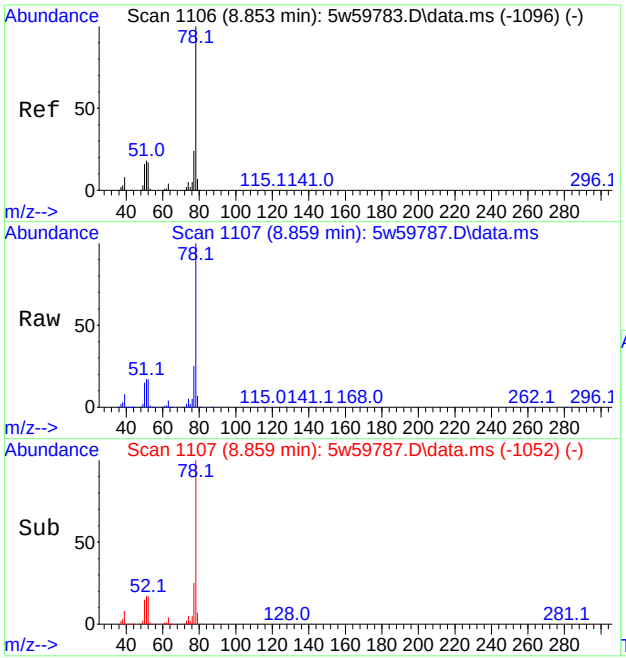


#50
1,2-DICHLOROETHANE
Concen: 62.85 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 4560398

Ion	Ratio	Lower	Upper
62	100		
64	33.2	2.3	62.3
98	7.7	0.0	36.9

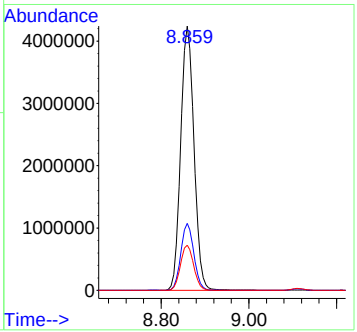


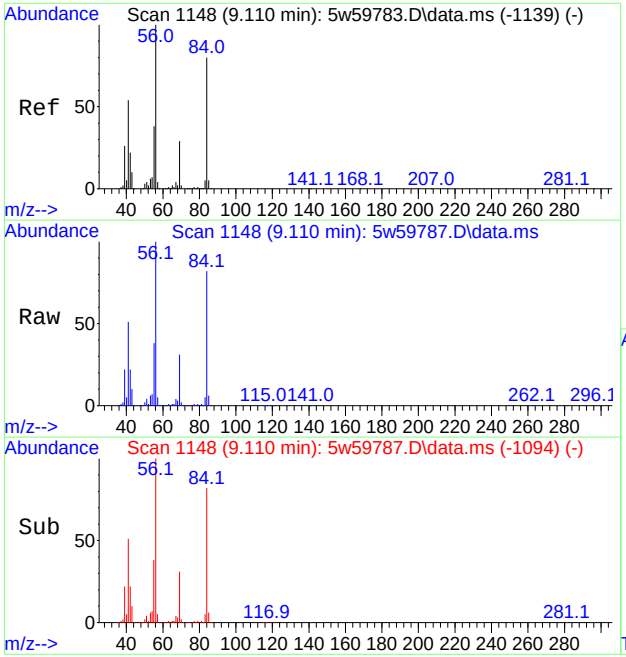


#52
BENZENE
Concen: 67.41 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 78 Resp: 8949189

Ion	Ratio	Lower	Upper
78	100		
77	24.7	0.0	53.8
52	17.1	0.0	46.9

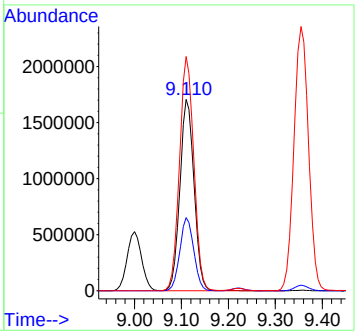


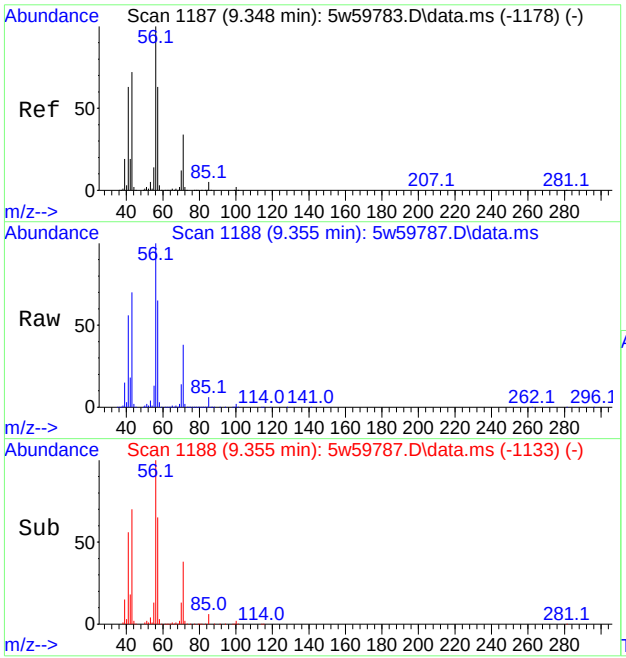


#53
CYCLOHEXANE
Concen: 67.59 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 3590293

Ion	Ratio	Lower	Upper
84	100		
69	37.6	6.9	66.9
56	123.7	98.2	158.2

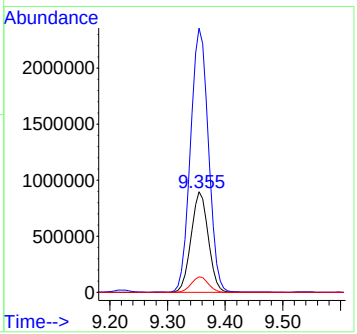


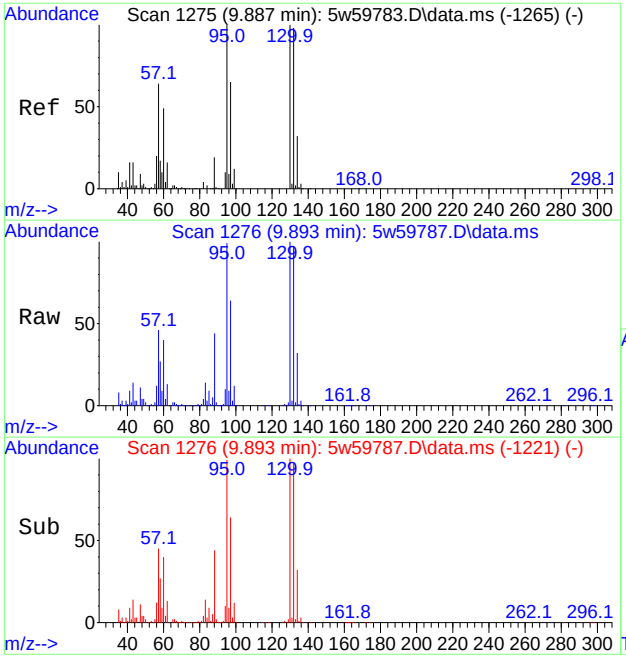


#54
2,3-DIMETHYLPENTANE
Concen: 67.86 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 71 Resp: 1853301

Ion	Ratio	Lower	Upper
71	100		
56	275.2	264.6	324.6
85	15.5	0.0	45.3

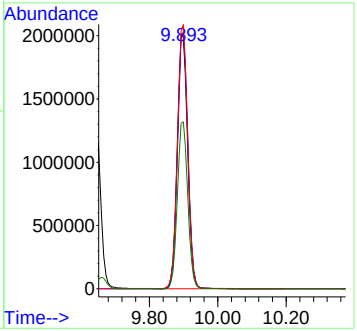


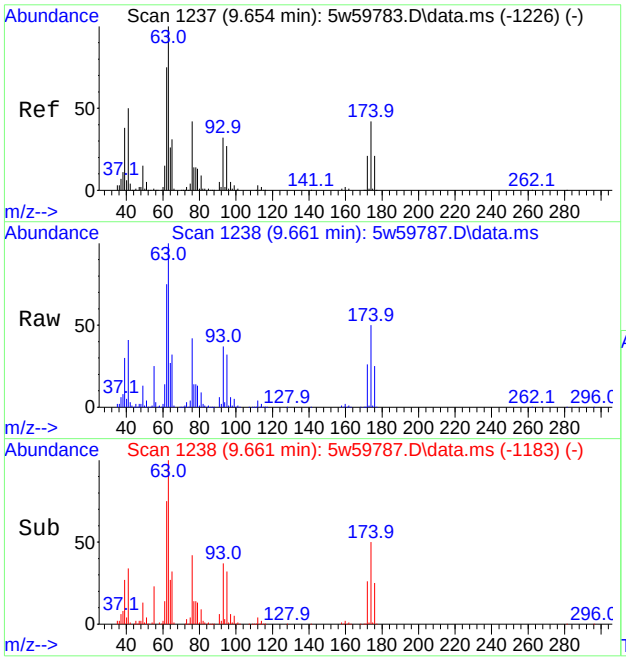


#55
TRICHLOROETHYLENE
Concen: 61.05 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 95 Resp: 4247994

Ion	Ratio	Lower	Upper
95	100		
132	100.4	69.0	129.0
130	103.4	70.6	130.6
97	65.6	34.6	94.6

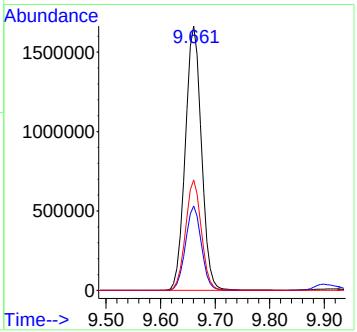


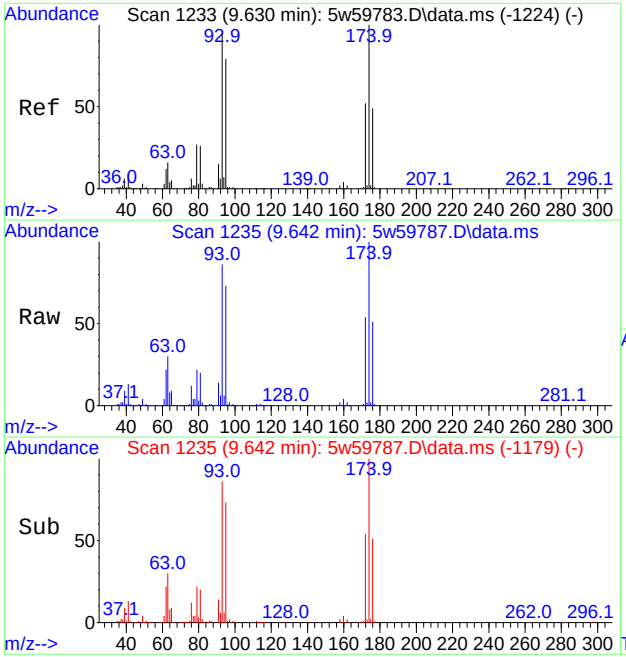


#56
1,2-DICHLOROPROPANE
Concen: 61.24 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 3414269

Ion	Ratio	Lower	Upper
63	100		
65	31.5	0.5	60.5
76	41.1	11.5	71.5

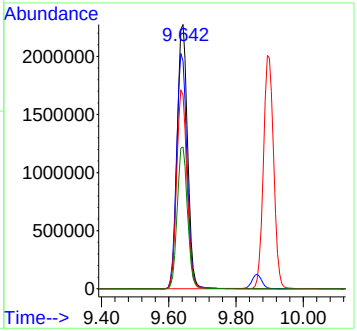


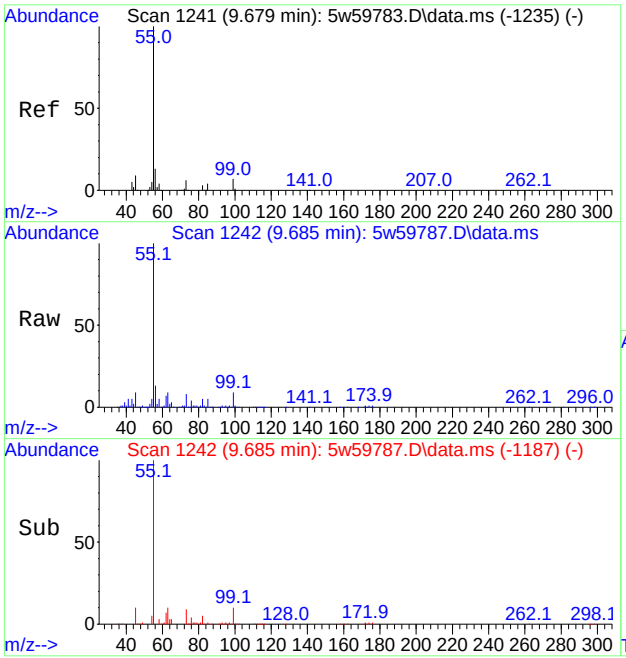


#57
DIBROMOMETHANE
Concen: 64.66 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:174 Resp: 4863346

Ion	Ratio	Lower	Upper
174	100		
93	89.4	65.0	120.6
95	75.5	54.5	101.1
172	53.4	36.3	67.5

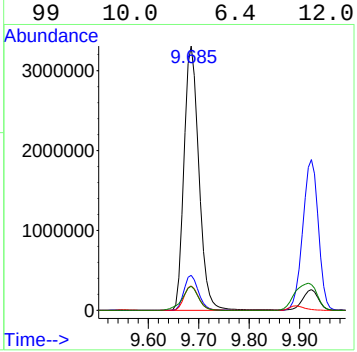


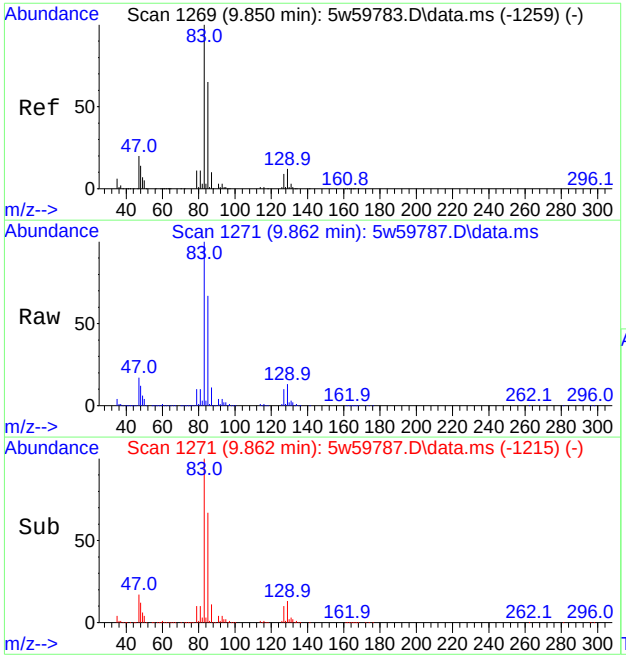


#58
ETHYL ACRYLATE
Concen: 63.67 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 6797917

Ion	Ratio	Lower	Upper
55	100		
56	12.9	8.6	16.0
45	9.0	6.6	12.2
99	10.0	6.4	12.0

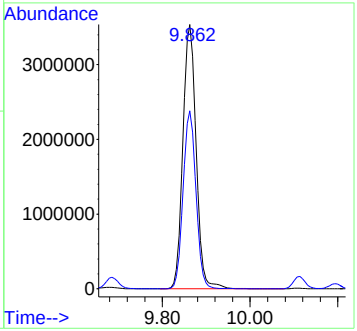


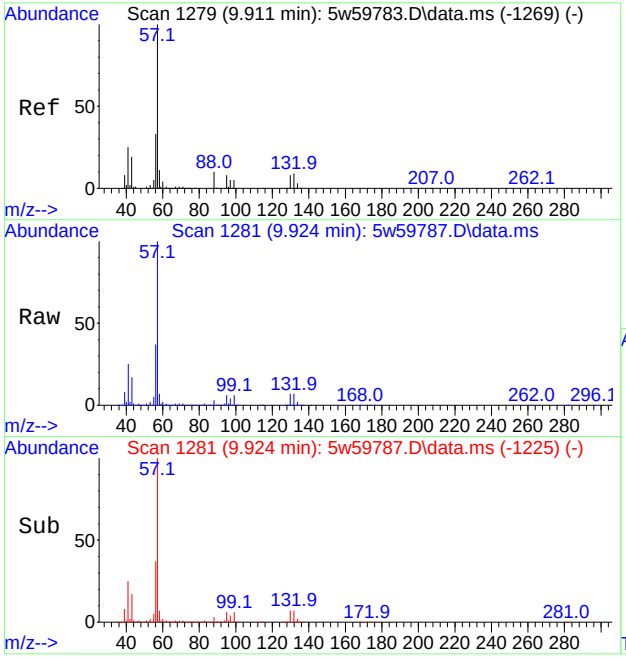


#59
BROMODICHLOROMETHANE
Concen: 61.30 PPBV
RT: 9.862 min Scan# 1271
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7417663

Ion	Ratio	Lower	Upper
83	100		
85	65.4	33.4	93.4

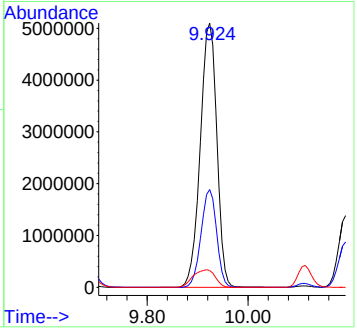


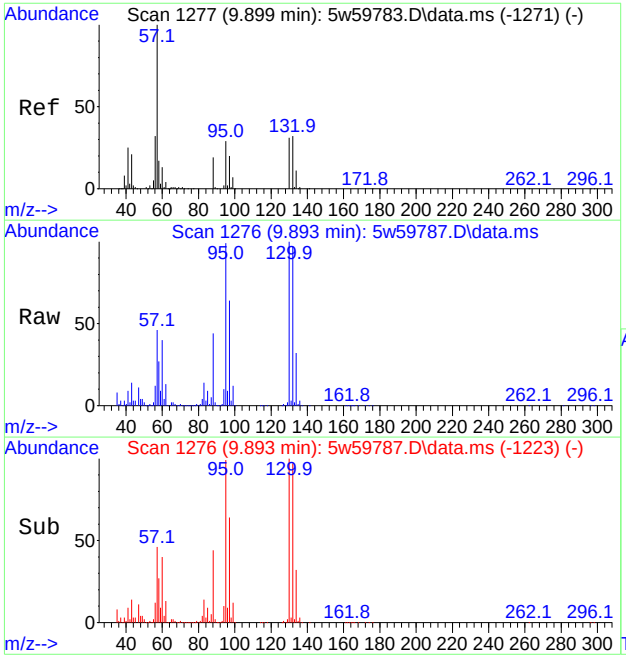


#60
2,2,4-TRIMETHYLPENTANE
Concen: 56.13 PPBV
RT: 9.924 min Scan# 1281
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp:11658719

Ion	Ratio	Lower	Upper
57	100		
56	34.7	2.5	62.5
99	8.9	0.0	37.3

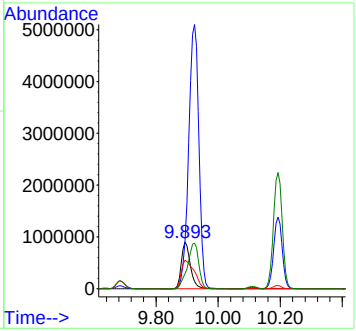


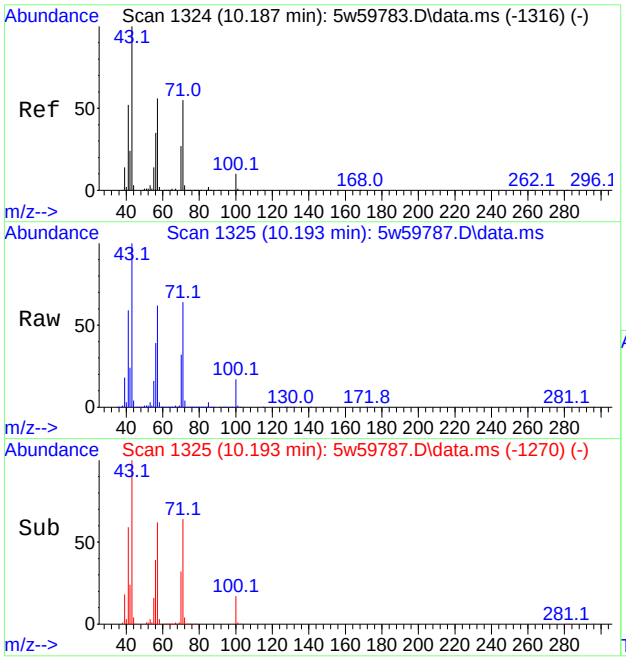


#61
1,4-DIOXANE
Concen: 60.00 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 88 Resp: 1844331

Ion	Ratio	Lower	Upper
88	100		
57	102.5	494.2	554.2#
58	61.2	58.9	118.9
43	32.1	78.3	138.3#

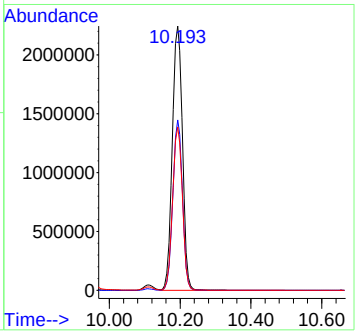


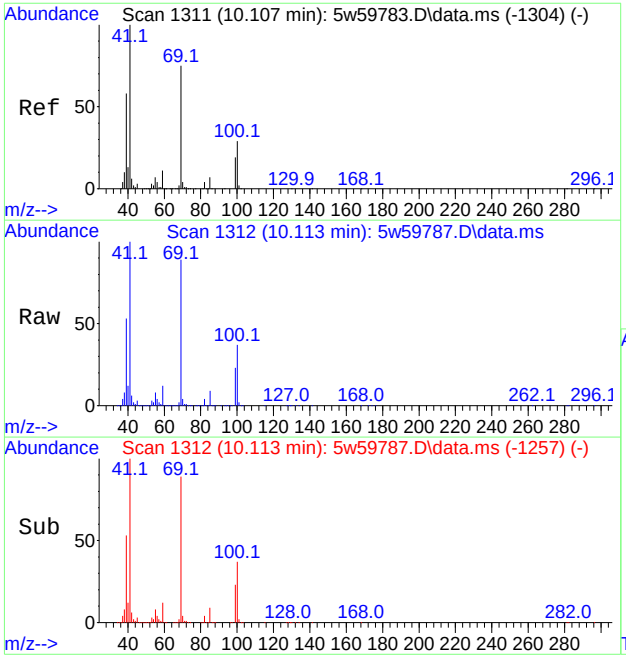


#62
HEPTANE
Concen: 63.31 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 4474034

Ion	Ratio	Lower	Upper
43	100		
71	61.1	24.5	84.5
57	59.9	26.2	86.2

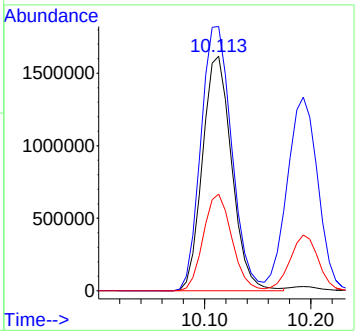


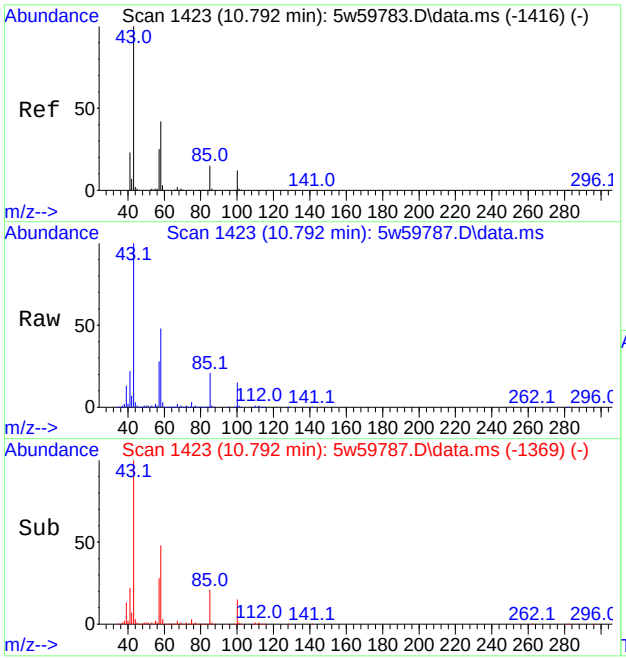


#63
METHYL METHACRYLATE
Concen: 67.79 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 3101307

Ion	Ratio	Lower	Upper
69	100		
41	118.8	95.3	155.3
100	40.2	6.3	66.3

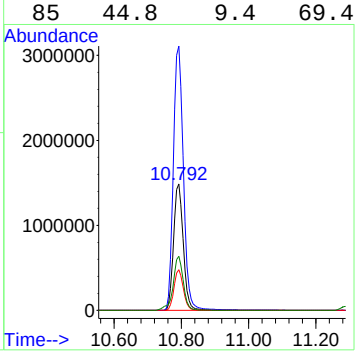


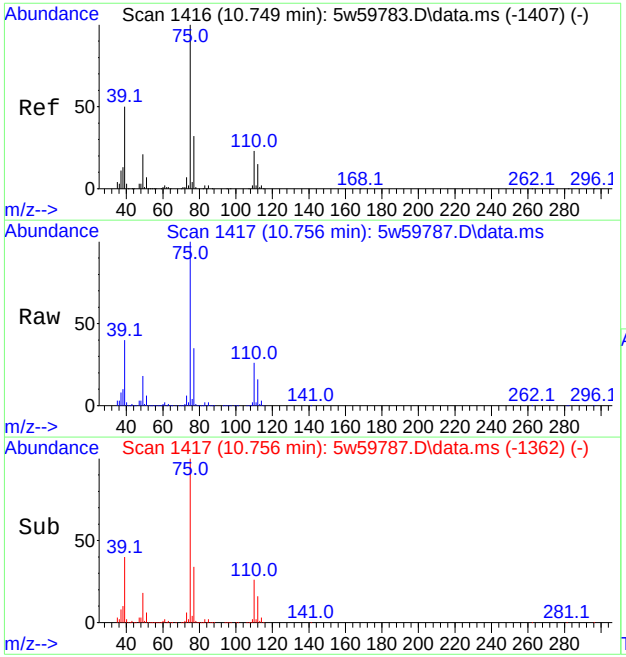


#64
METHYL ISOBUTYL KETONE
Concen: 66.58 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 2975343

Ion	Ratio	Lower	Upper
58	100		
43	216.5	209.2	269.2
100	31.2	0.0	58.8
85	44.8	9.4	69.4

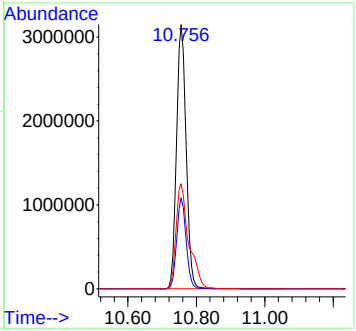


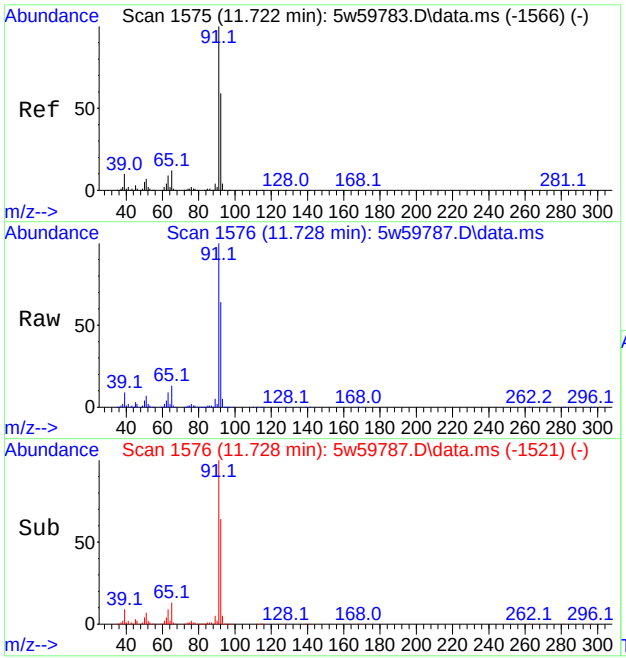


#65
cis-1,3-DICHLOROPROPENE
Concen: 66.43 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6183357

Ion	Ratio	Lower	Upper
75	100		
77	33.7	2.2	62.2
39	53.0	34.3	94.3

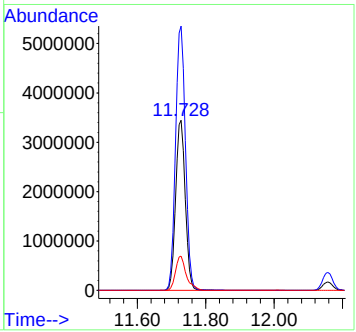


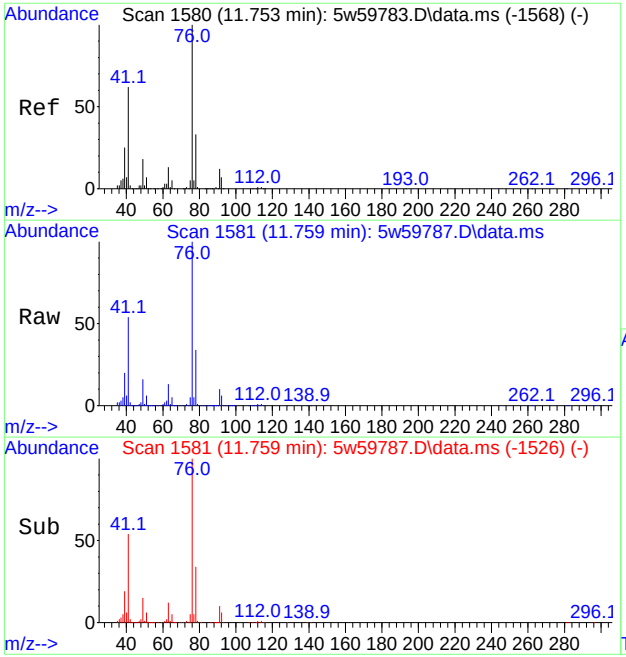


#66
TOLUENE
Concen: 65.67 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 92 Resp: 6766589

Ion	Ratio	Lower	Upper
92	100		
91	160.0	140.1	200.1
65	22.6	0.0	53.1

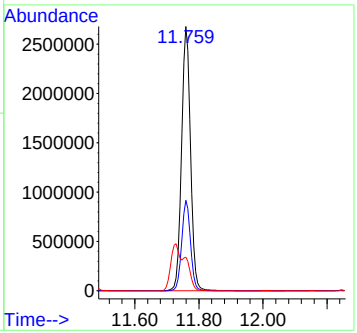


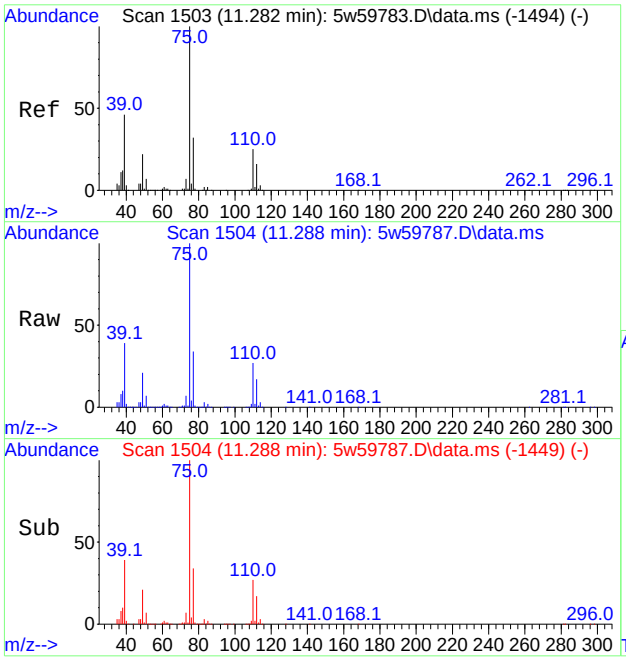


#67
1,3-DICHLOROPROPANE
Concen: 63.52 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 5183507

Ion	Ratio	Lower	Upper
76	100		
78	33.7	23.2	43.0
63	12.1	7.1	13.1

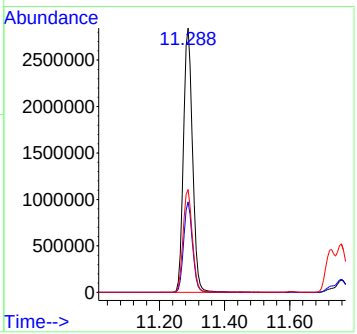


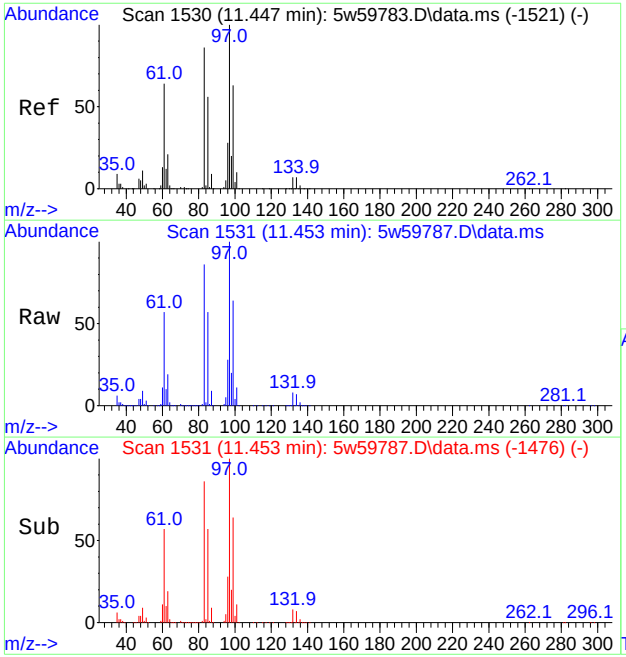


#68
trans-1,3-DICHLOROPROPENE
Concen: 63.59 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 5535715

Ion	Ratio	Lower	Upper
75	100		
77	33.3	1.6	61.6
39	40.1	16.1	76.1

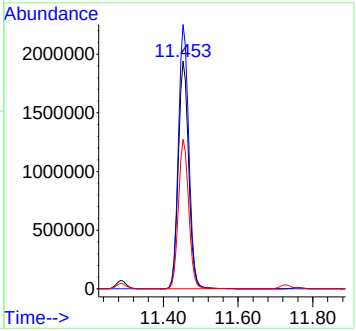


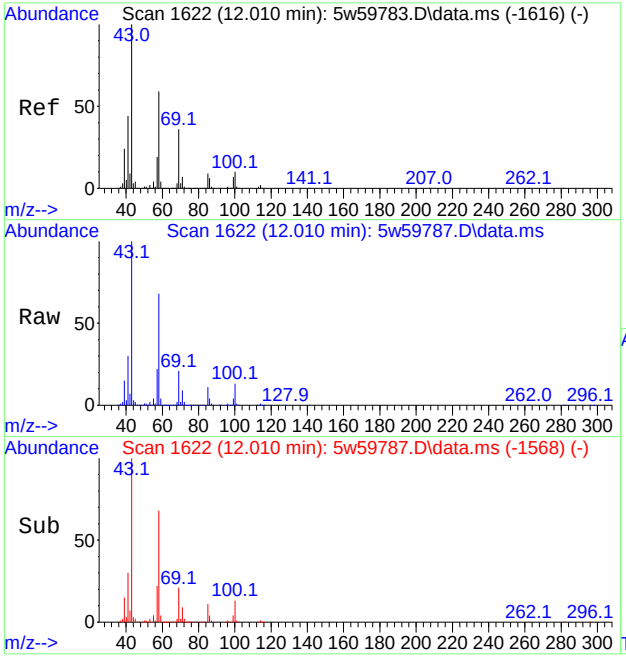


#69
1,1,2-TRICHLOROETHANE
Concen: 66.35 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 3736885

Ion	Ratio	Lower	Upper
83	100		
97	116.2	86.3	146.3
85	65.4	35.3	95.3

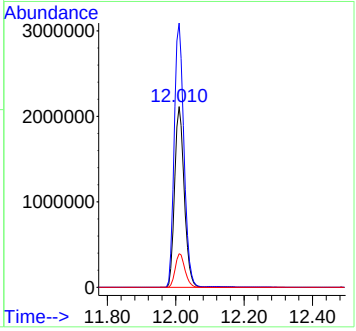


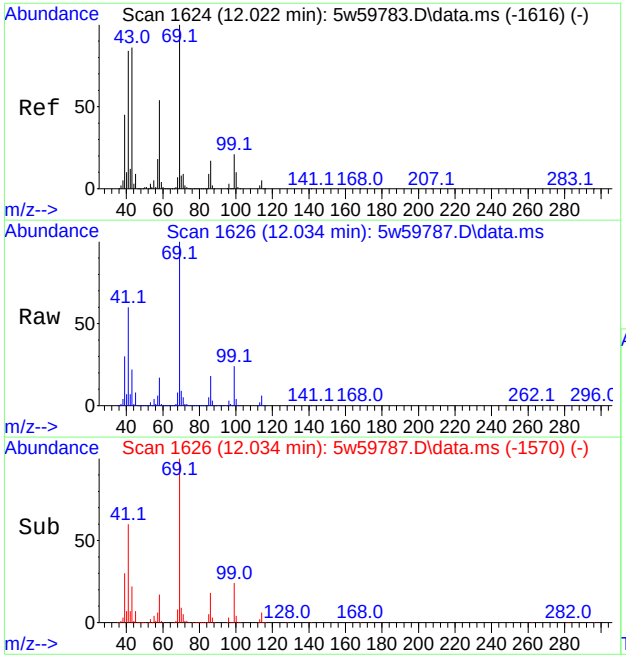


#71
2-HEXANONE
Concen: 54.00 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 4158676

Ion	Ratio	Lower	Upper
58	100		
43	147.9	137.2	197.2
100	18.9	0.0	46.9

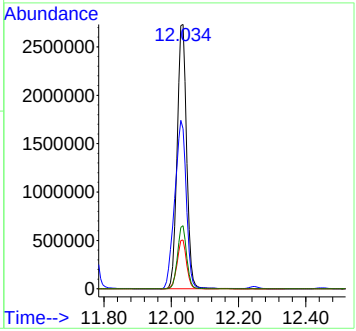


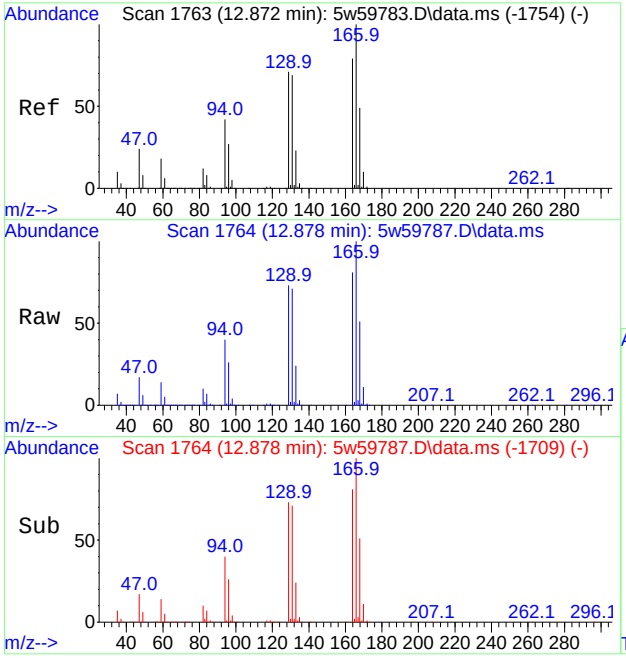


#72
ETHYL METHACRYLATE
Concen: 53.39 PPBV
RT: 12.034 min Scan# 1626
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 5321053

Ion	Ratio	Lower	Upper
69	100		
41	77.8	64.0	119.0
86	18.4	12.0	22.4
99	23.1	15.0	27.8

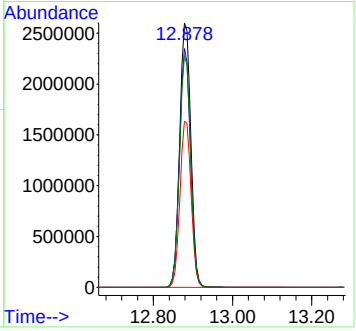


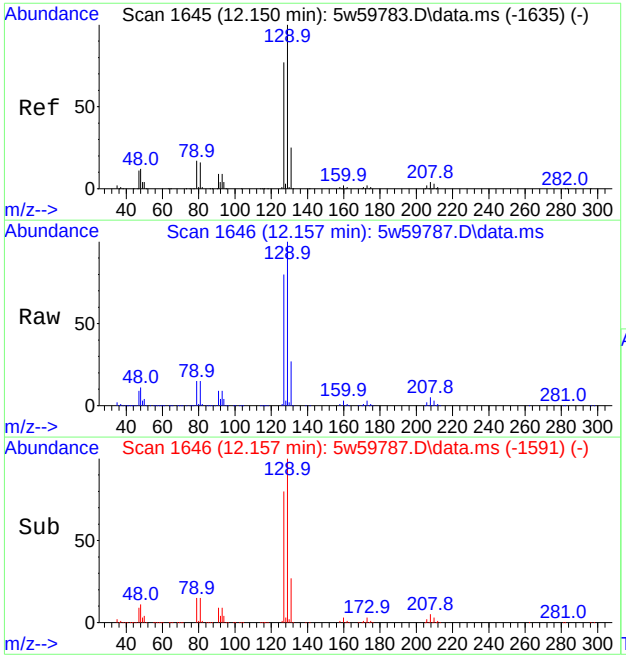


#73
TETRACHLOROETHYLENE
Concen: 56.17 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:164 Resp: 5112644

Ion	Ratio	Lower	Upper
164	100		
129	89.2	59.7	119.7
168	62.8	32.2	92.2
131	87.3	57.8	117.8

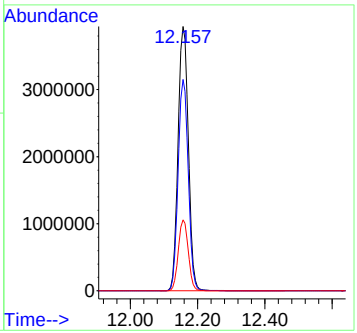


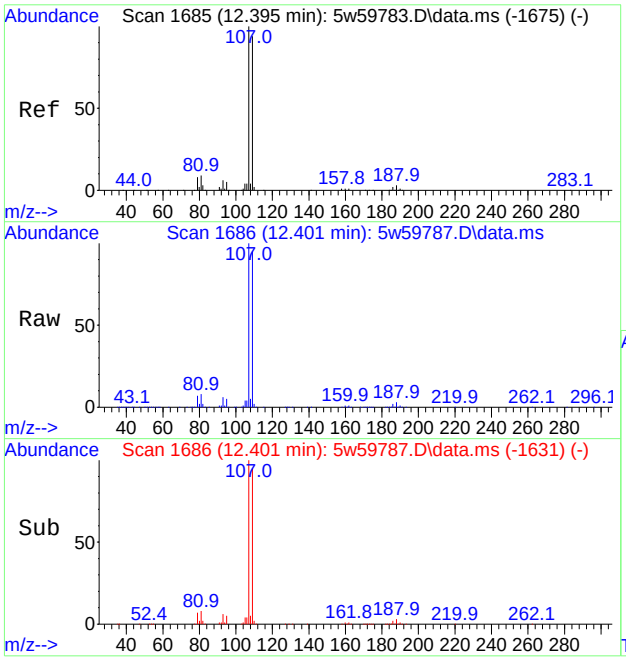


#74
DIBROMOCHLOROMETHANE
Concen: 52.38 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:129 Resp: 8396348

Ion	Ratio	Lower	Upper
129	100		
127	78.8	47.1	107.1
131	26.1	0.0	54.5

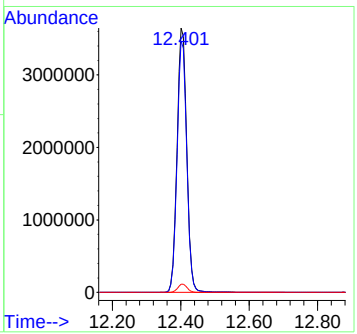


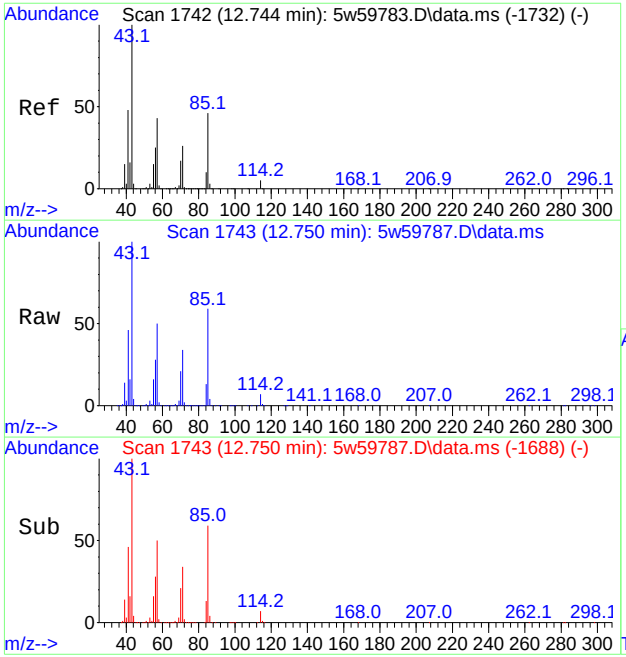


#75
1,2-DIBROMOETHANE
Concen: 57.04 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:107 Resp: 7189005

Ion	Ratio	Lower	Upper
107	100		
109	95.3	64.8	124.8
188	3.0	0.0	32.8

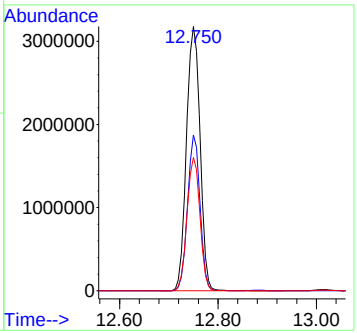


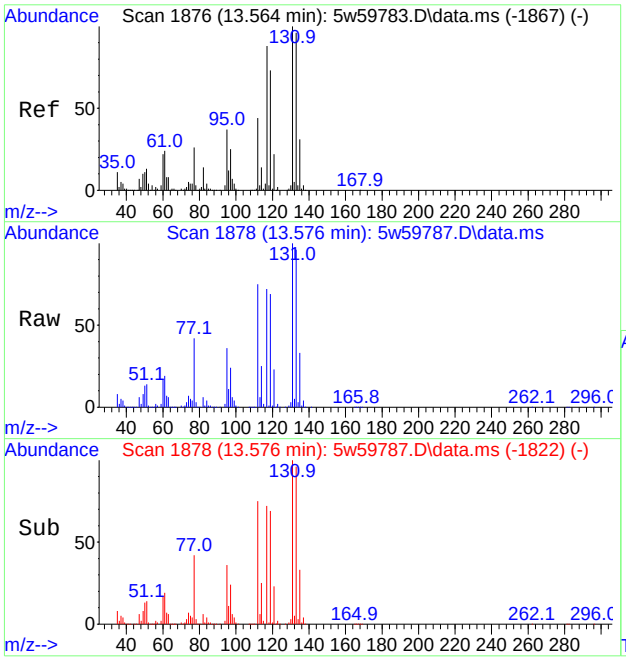


#76
OCTANE
Concen: 51.61 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 6099138

Ion	Ratio	Lower	Upper
43	100		
85	53.9	14.6	74.6
57	48.0	13.7	73.7

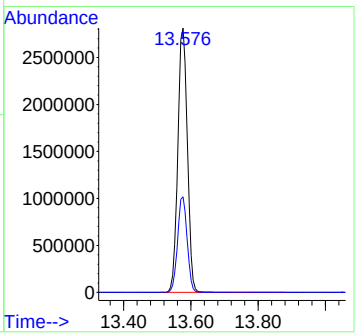


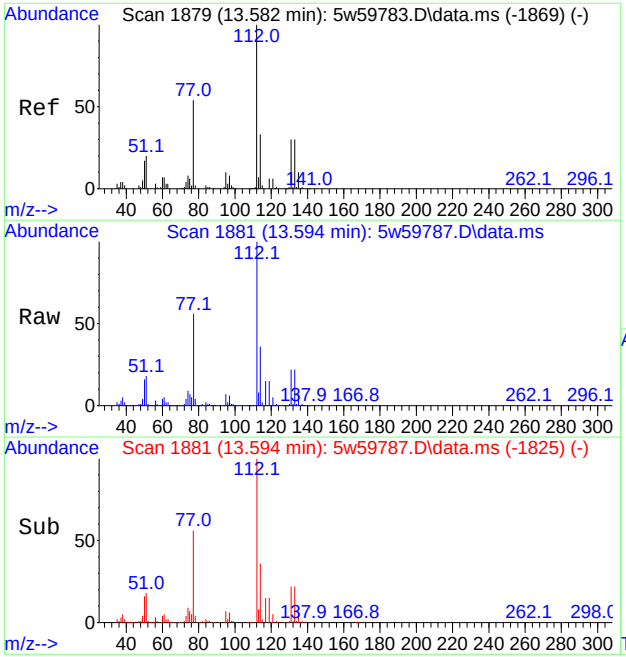


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 54.07 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:131 Resp: 5539677

Ion	Ratio	Lower	Upper
131	100		
95	36.2	6.5	66.5

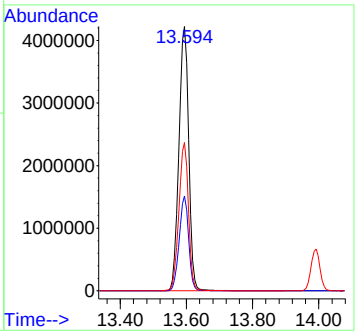


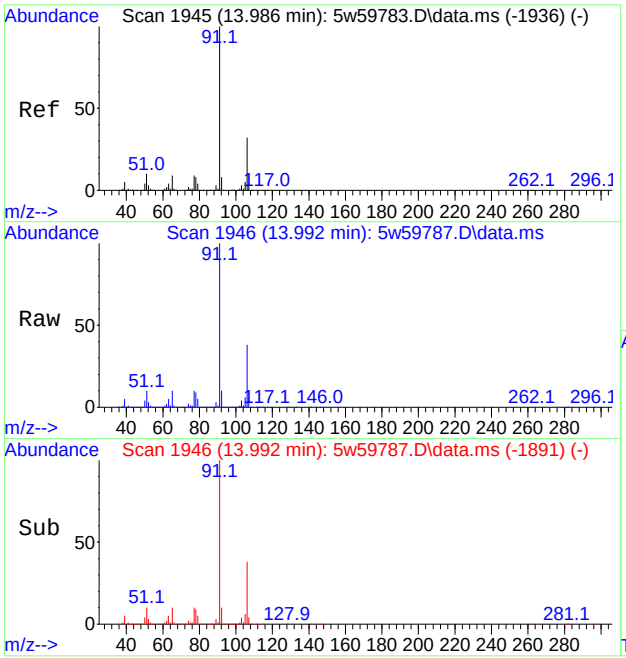


#78
CHLOROBENZENE
Concen: 52.99 PPBV
RT: 13.594 min Scan# 1881
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:112 Resp: 8685700

Ion	Ratio	Lower	Upper
112	100		
114	34.4	2.6	62.6
77	55.0	25.4	85.4

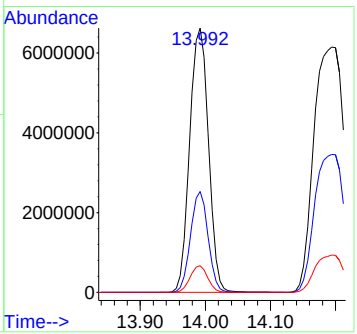


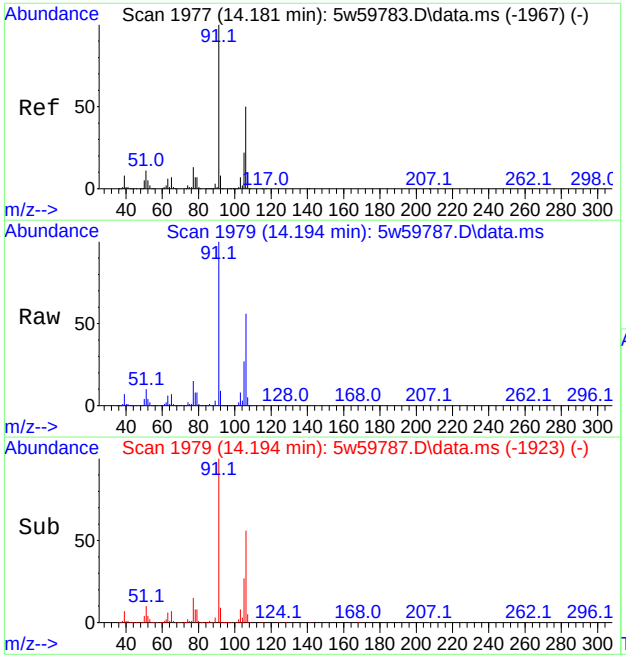


#79
ETHYLBENZENE
Concen: 52.78 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:13293280

Ion	Ratio	Lower	Upper
91	100		
106	35.6	1.3	61.3
77	9.4	0.0	38.6

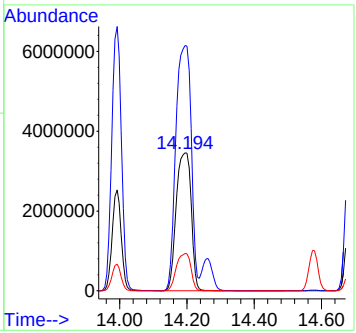


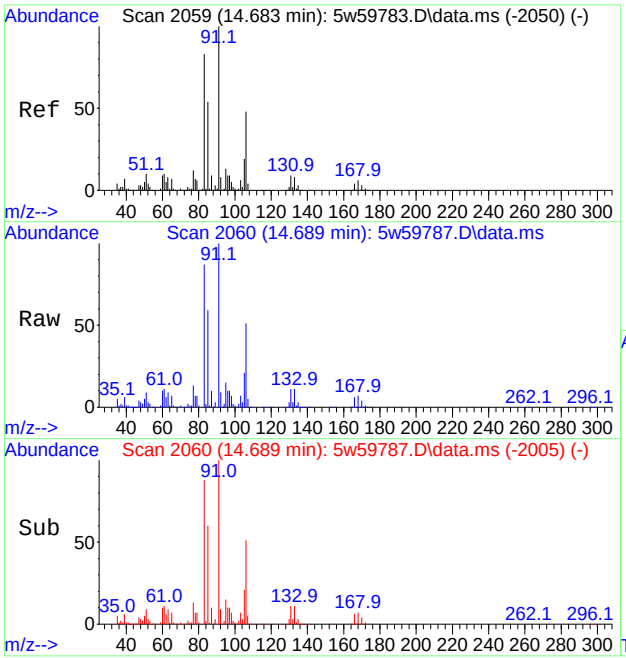


#80
m,p-XYLENE
Concen: 104.01 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp:10660694

Ion	Ratio	Lower	Upper
106	100		
91	177.8	171.0	231.0
77	27.1	0.0	56.7

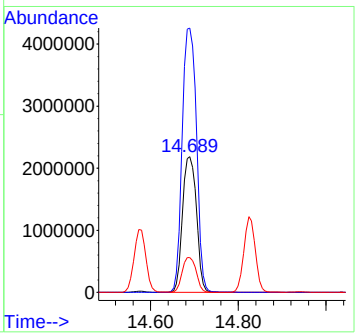


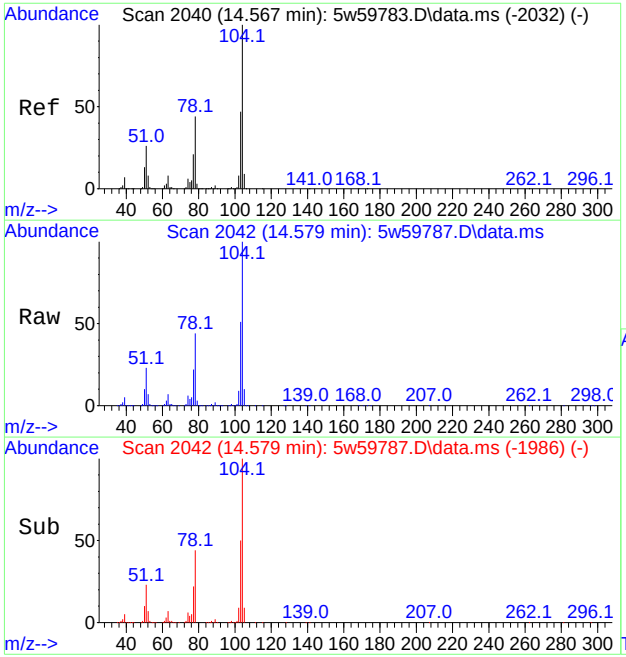


#81
o-XYLENE
Concen: 49.93 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 4828440

Ion	Ratio	Lower	Upper
106	100		
91	199.8	181.6	241.6
77	25.8	0.0	56.6

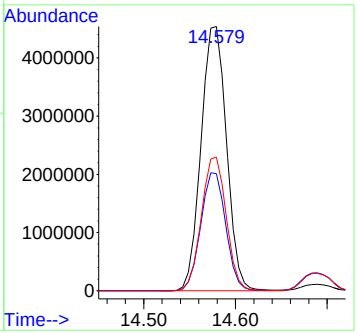


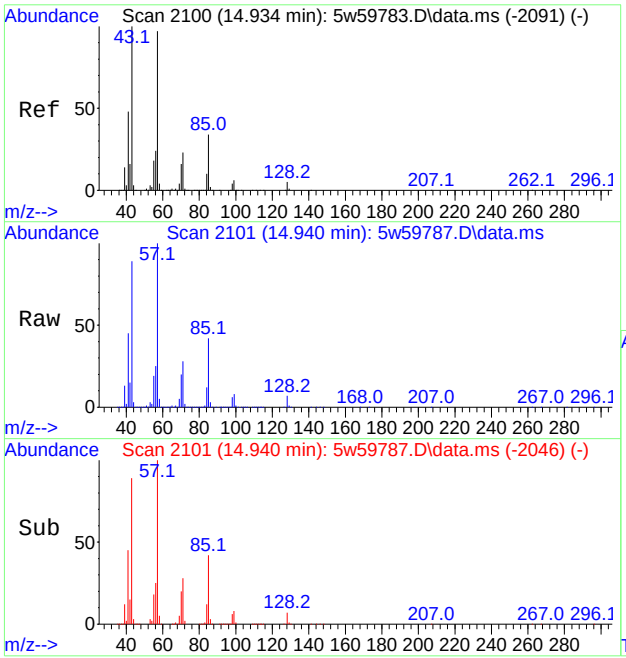


#82
STYRENE
Concen: 56.42 PPBV
RT: 14.579 min Scan# 2042
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:104 Resp: 8801086

Ion	Ratio	Lower	Upper
104	100		
78	43.7	13.3	73.3
103	49.3	17.2	77.2

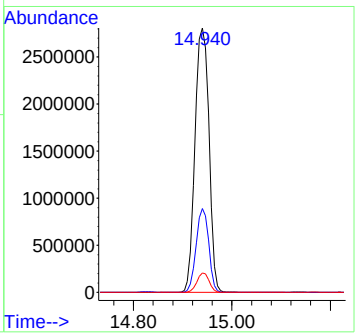


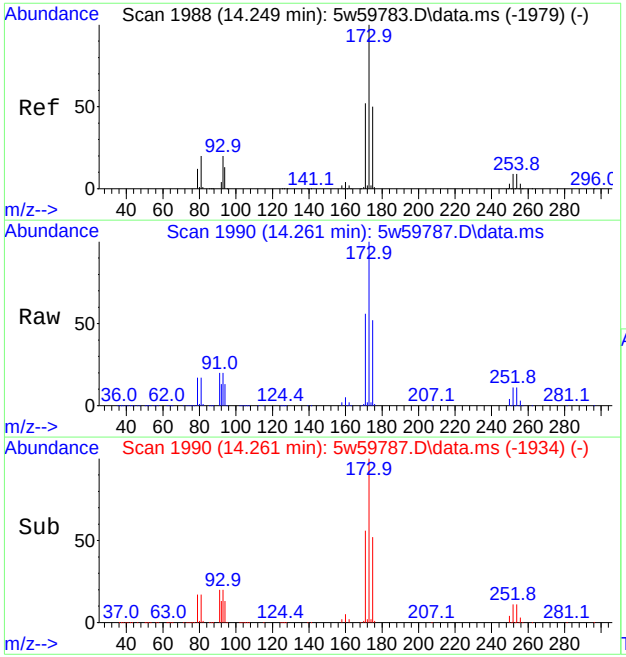


#83
NONANE
Concen: 46.77 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 5544485

Ion	Ratio	Lower	Upper
43	100		
71	28.5	0.0	52.7
128	6.4	0.0	34.7

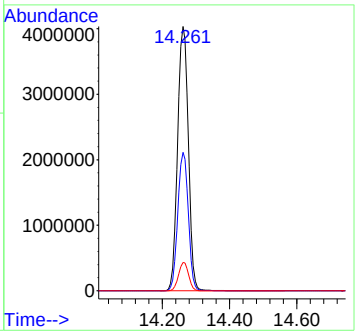


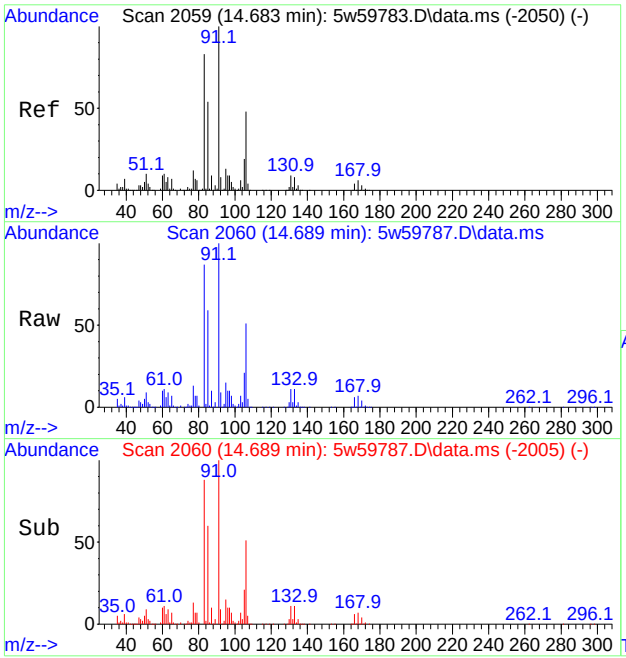


#84
BROMOFORM
Concen: 53.58 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:173 Resp: 8954982

Ion	Ratio	Lower	Upper
173	100		
175	51.3	19.6	79.6
254	10.1	0.0	39.0

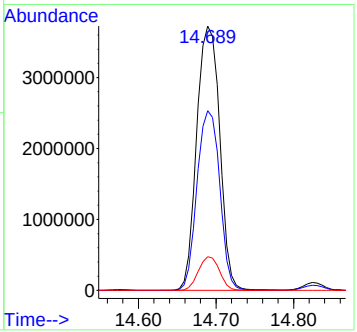


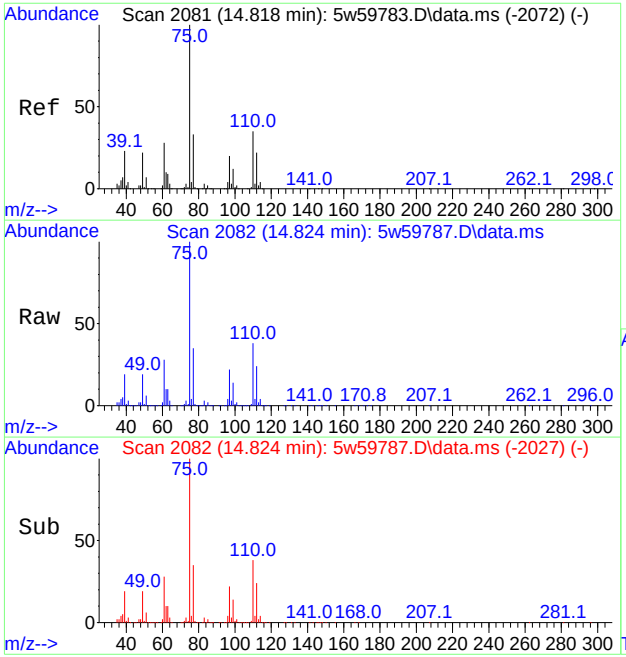


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 46.70 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7680268

Ion	Ratio	Lower	Upper
83	100		
85	67.0	35.2	95.2
131	11.7	0.0	40.3

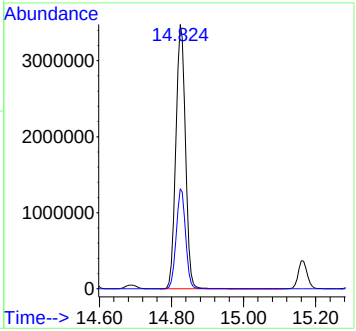


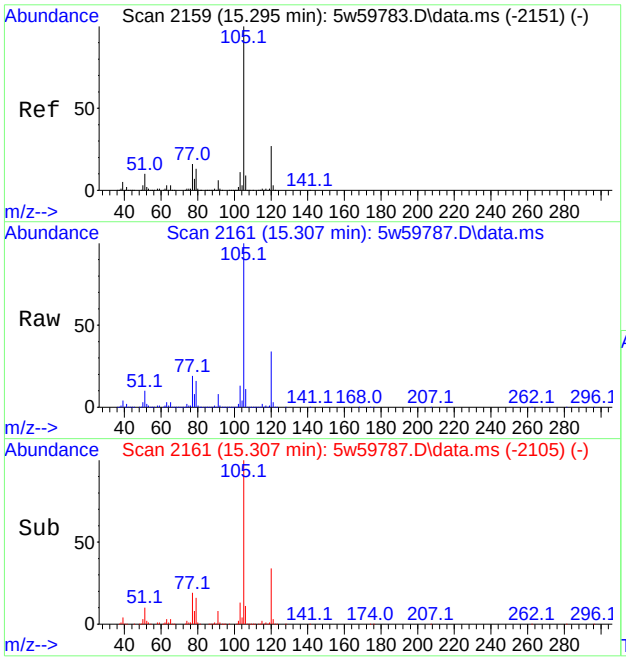


#87
1,2,3-TRICHLOROPROPANE
Concen: 53.62 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6463476

Ion	Ratio	Lower	Upper
75	100		
110	36.9	4.4	64.4

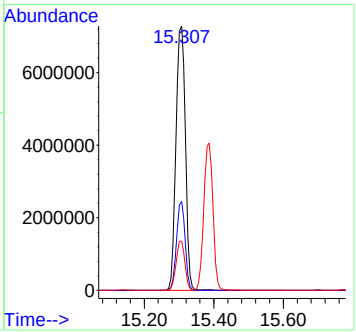


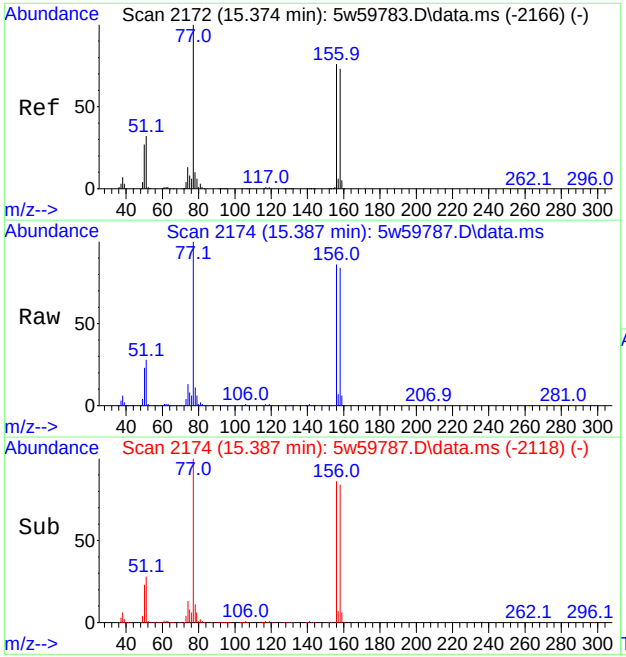


#88
ISOPROPYLBENZENE
Concen: 47.61 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13782072

Ion	Ratio	Lower	Upper
105	100		
120	30.8	0.0	56.0
77	17.4	0.0	45.6

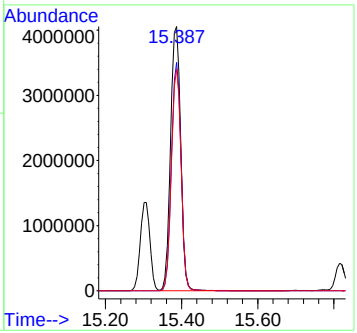


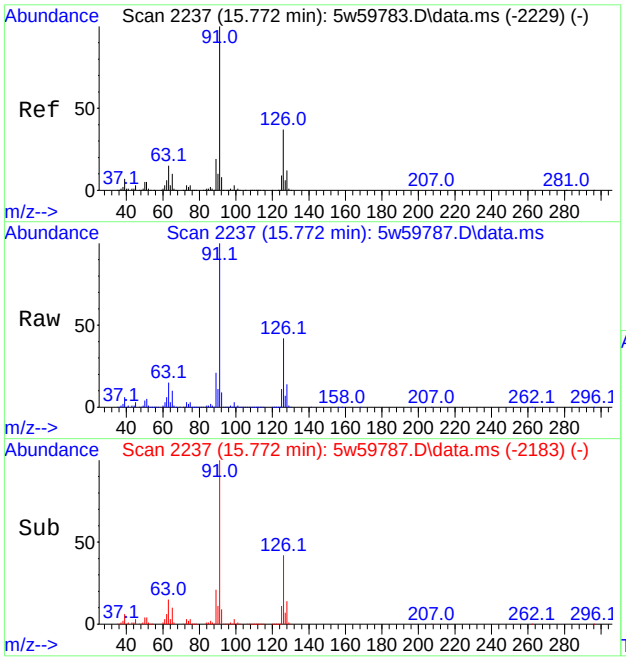


#89
BROMOBENZENE
Concen: 50.72 PPBV
RT: 15.387 min Scan# 2174
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 77 Resp: 7438070

Ion	Ratio	Lower	Upper
77	100		
156	83.1	54.9	101.9
158	80.8	53.5	99.3

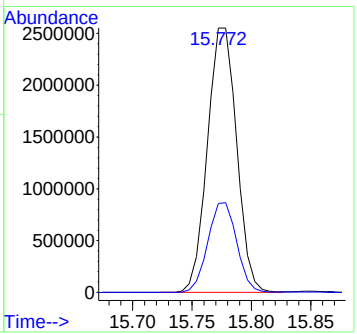


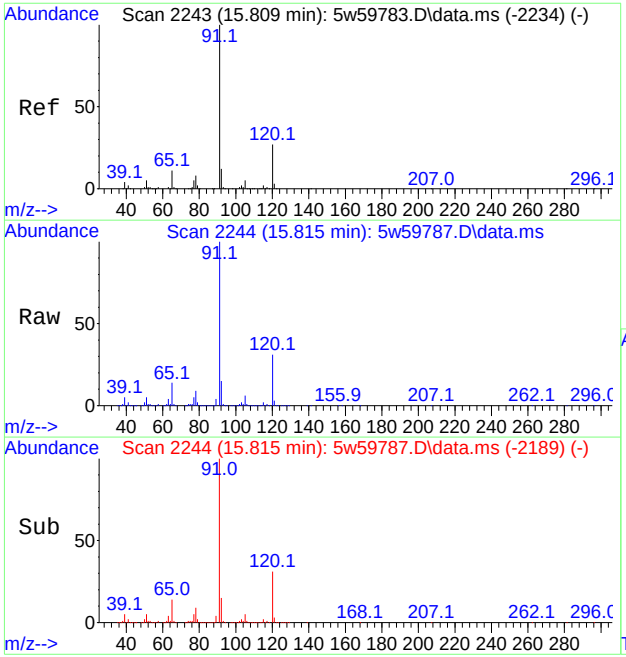


#90
2-CHLOROTOLUENE
Concen: 53.10 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:126 Resp: 4362530

Ion	Ratio	Lower	Upper
126	100		
128	33.5	2.7	62.7

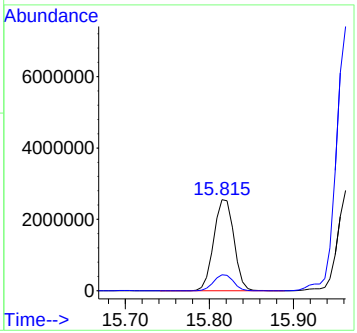


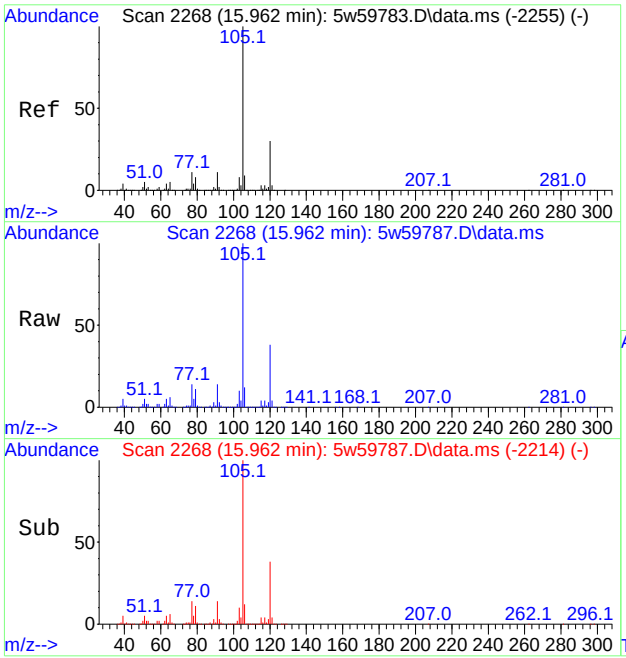


#91
n-PROPYLBENZENE
Concen: 52.74 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:120 Resp: 4269312

Ion	Ratio	Lower	Upper
120	100		
105	17.2	0.0	47.0

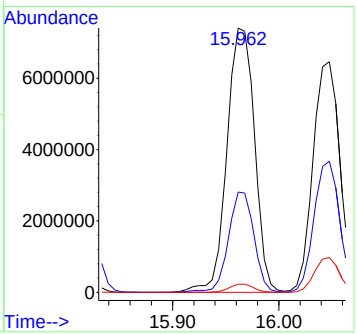


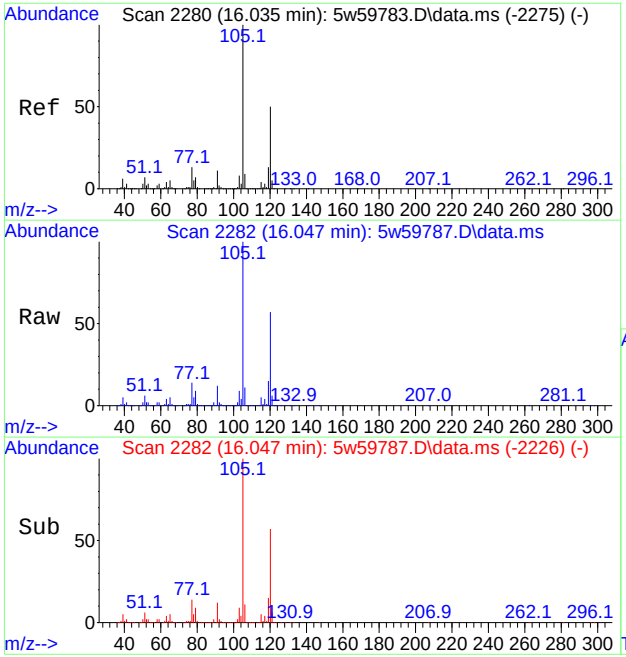


#92
4-ETHYLTOLUENE
Concen: 48.02 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13388380

Ion	Ratio	Lower	Upper
105	100		
120	35.0	0.0	59.9
119	2.8	0.0	32.3

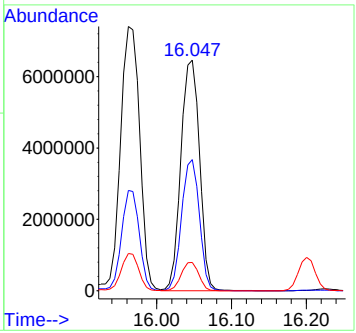


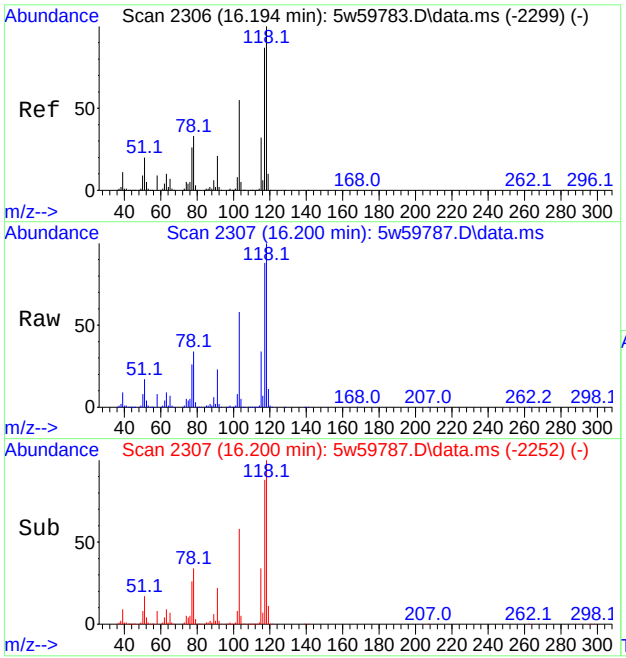


#93
1,3,5-TRIMETHYLBENZENE
Concen: 47.79 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:11253685

Ion	Ratio	Lower	Upper
105	100		
120	54.0	19.4	79.4
91	11.6	0.0	40.8

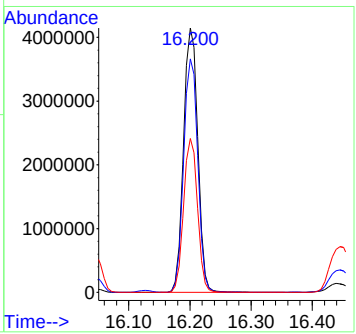


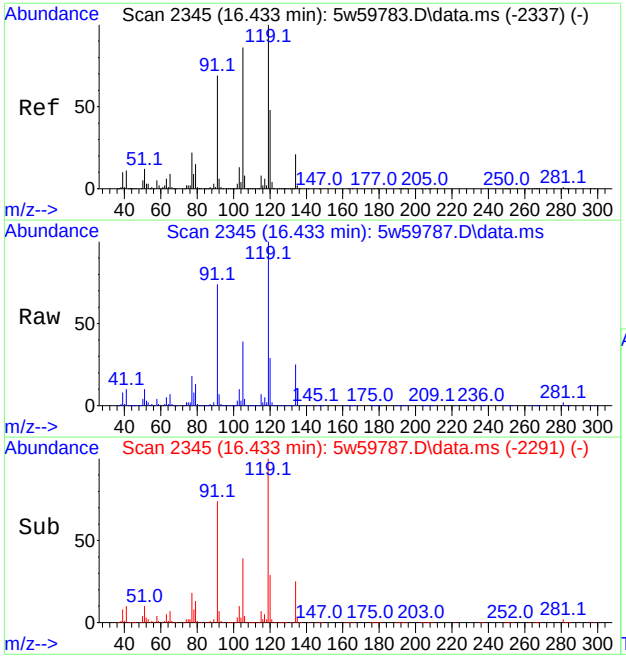


#94
ALPHA-METHYLSTYRENE
Concen: 50.76 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:118 Resp: 6738901

Ion	Ratio	Lower	Upper
118	100		
117	88.0	60.9	113.1
103	56.8	38.6	71.8

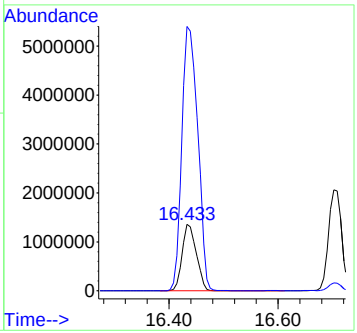


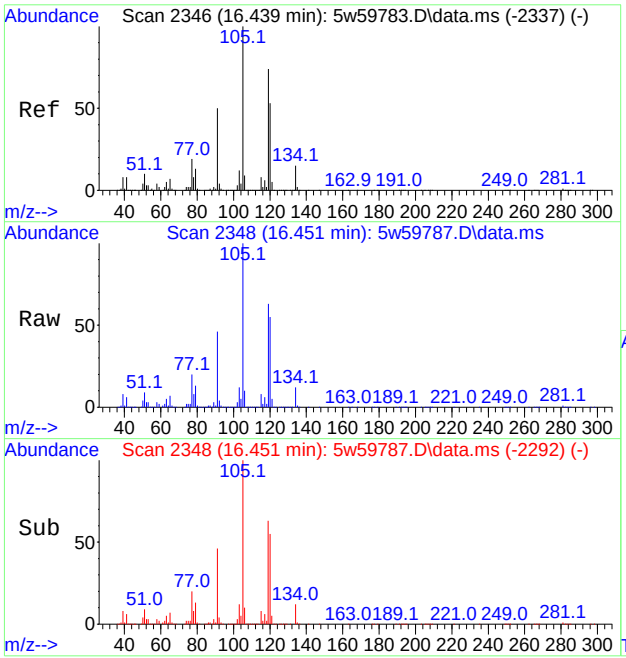


#95
tert-BUTYLBENZENE
Concen: 46.98 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 2429034

Ion	Ratio	Lower	Upper
134	100		
119	449.7	459.3	519.3#

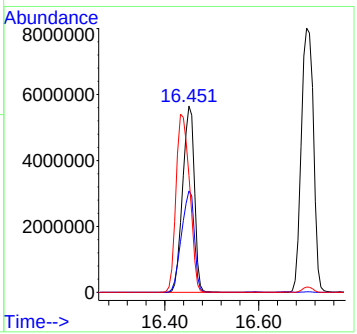


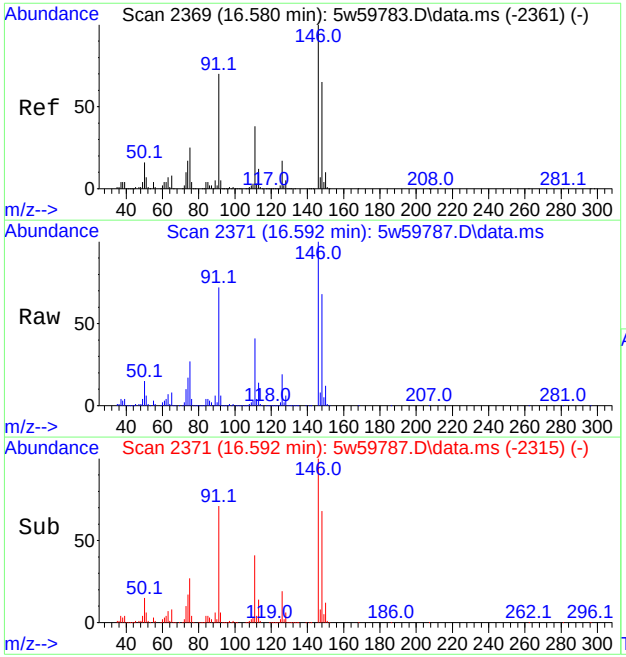


#96
1,2,4-TRIMETHYLBENZENE
Concen: 42.68 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9912721

Ion	Ratio	Lower	Upper
105	100		
120	59.1	25.7	85.7
119	110.2	75.7	135.7

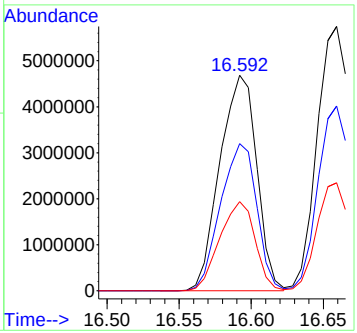


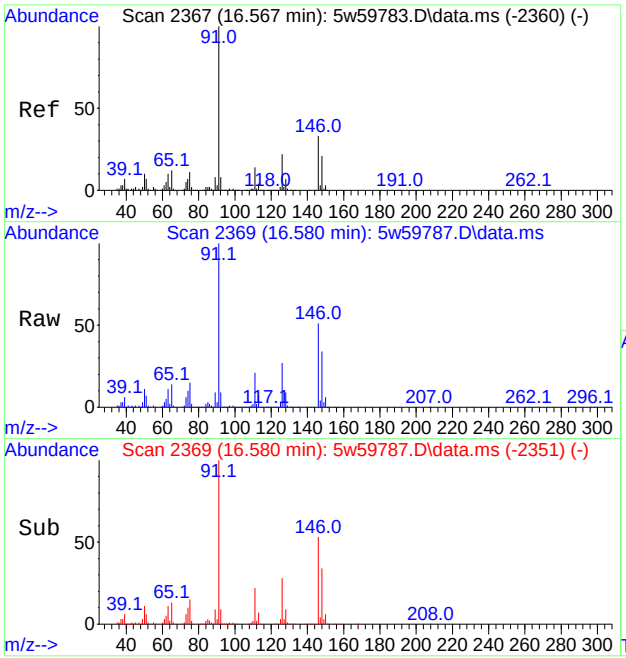


#97
m-DICHLOROBENZENE
Concen: 44.49 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 8350505

Ion	Ratio	Lower	Upper
146	100		
148	66.9	34.8	94.8
111	39.8	8.2	68.2

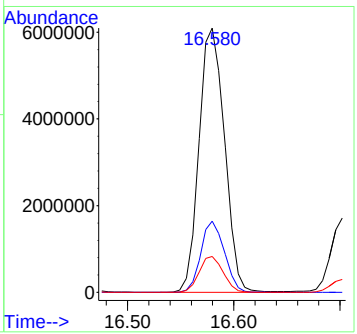


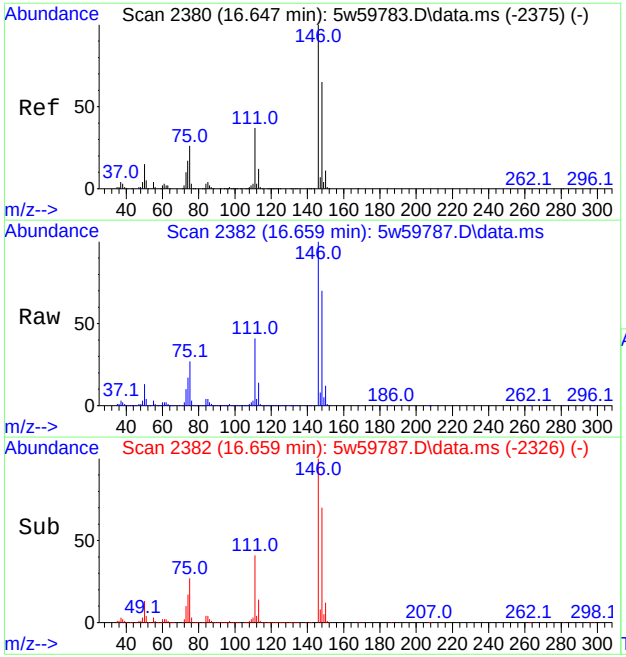


#98
BENZYL CHLORIDE
Concen: 42.40 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:10182019

Ion	Ratio	Lower	Upper
91	100		
126	25.0	0.0	51.7
65	12.9	0.0	42.2

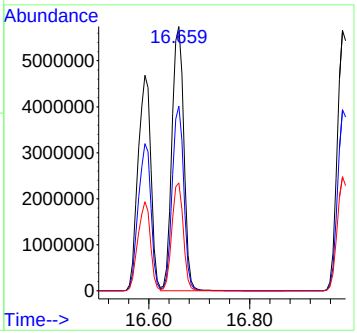


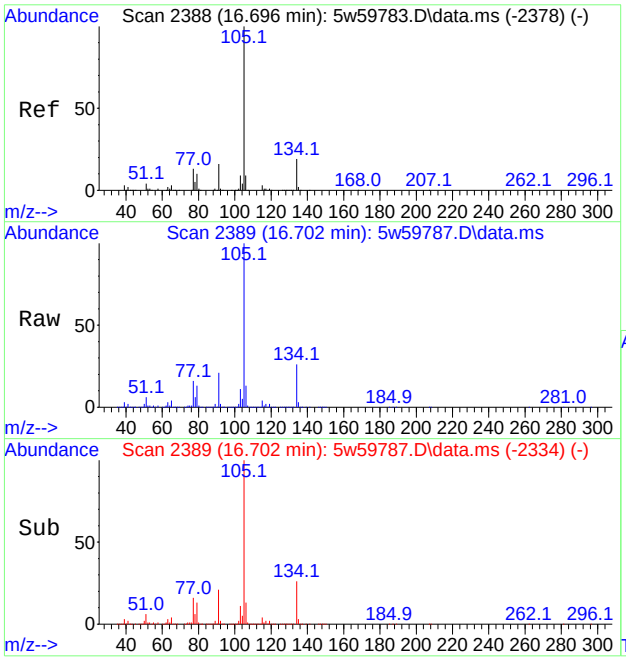


#99
p-DICHLOROBENZENE
Concen: 51.05 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9434738

Ion	Ratio	Lower	Upper
146	100		
148	67.8	34.6	94.6
111	39.2	6.7	66.7

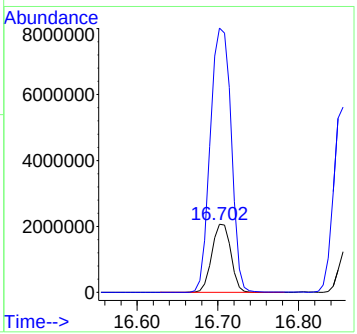


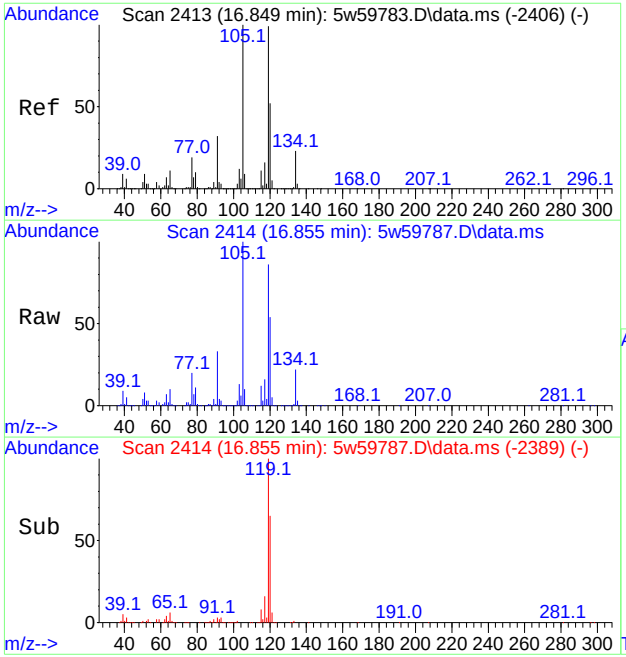


#100
sec-BUTYLBENZENE
Concen: 52.25 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3389691

Ion	Ratio	Lower	Upper
134	100		
105	427.3	502.5	562.5#

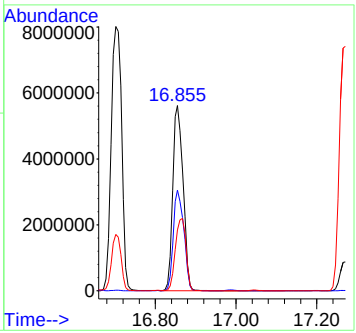


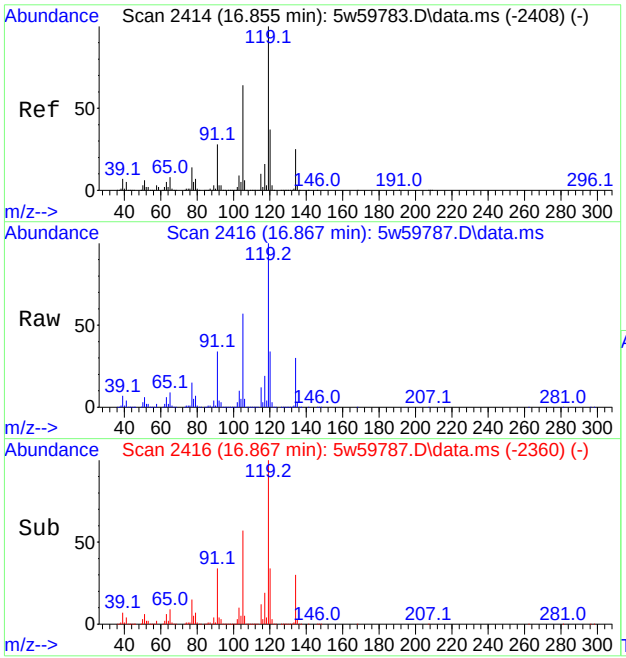


#101
1,2,3-TRIMETHYLBENZENE
Concen: 41.33 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9964483

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	40.0	7.4	67.4

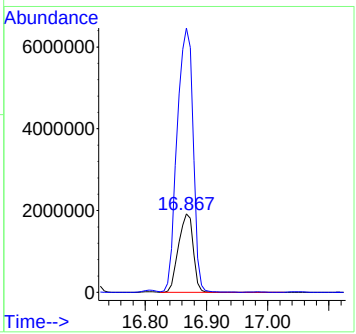


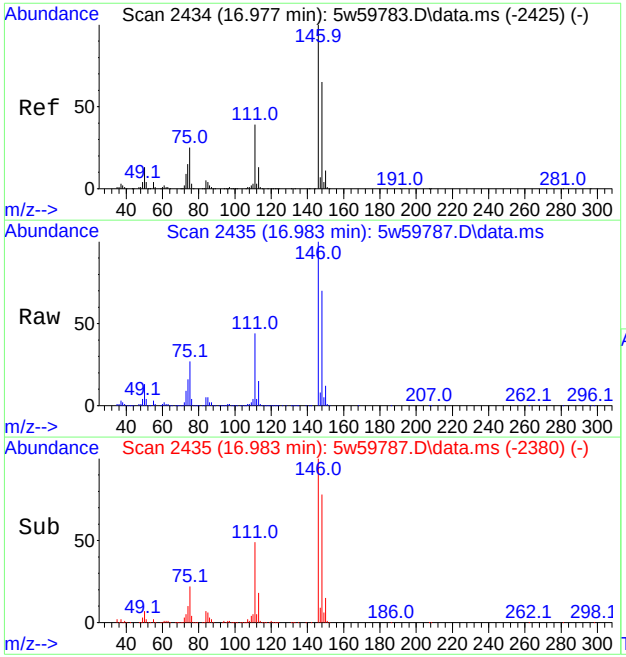


#102
p-ISOPROPYLTOLUENE
Concen: 42.88 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3209884

Ion	Ratio	Lower	Upper
134	100		
119	366.4	377.7	437.7#

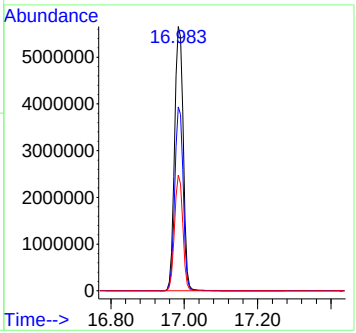


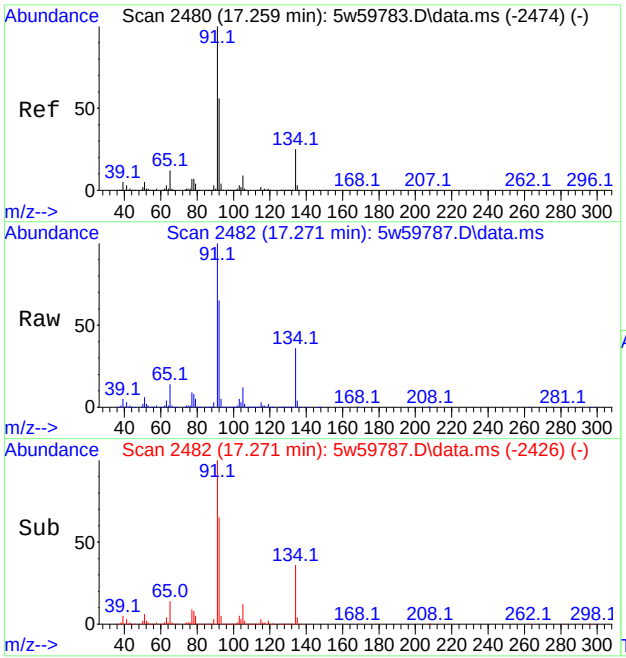


#103
o-DICHLOROBENZENE
Concen: 51.54 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9264152

Ion	Ratio	Lower	Upper
146	100		
148	67.6	34.3	94.3
111	41.8	9.2	69.2

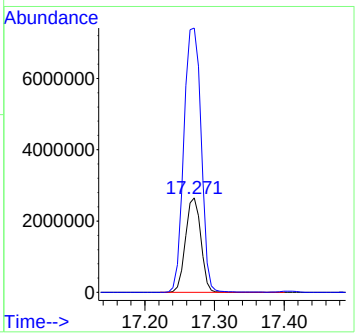


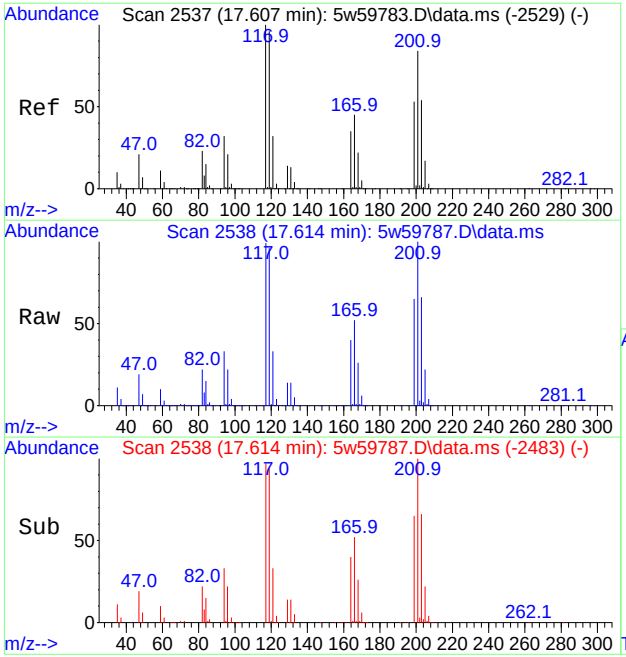


#104
n-BUTYLBENZENE
Concen: 53.04 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 4068110

Ion	Ratio	Lower	Upper
134	100		
91	315.5	363.1	423.1#

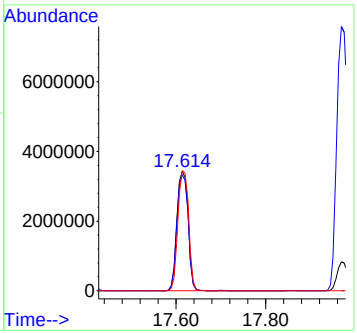


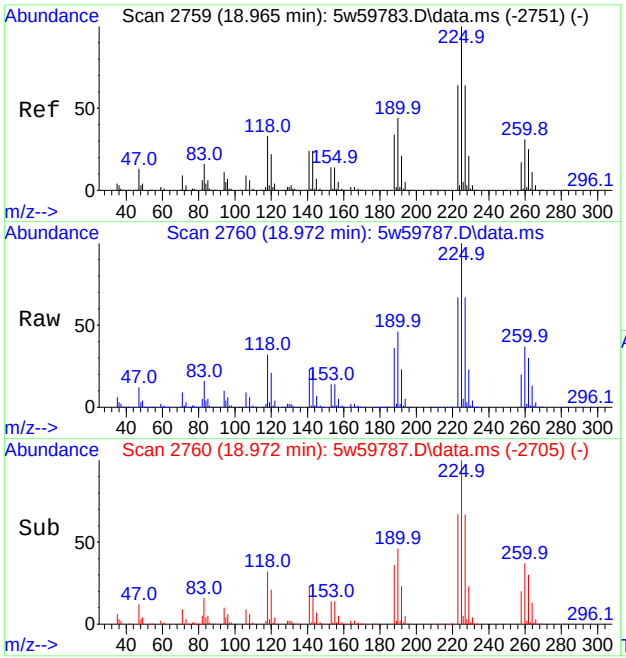


#105
HEXACHLOROETHANE
Concen: 48.19 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 5943910

Ion	Ratio	Lower	Upper
117	100		
119	96.7	67.2	124.8
201	96.6	61.1	113.5

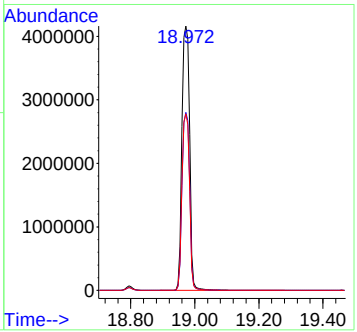


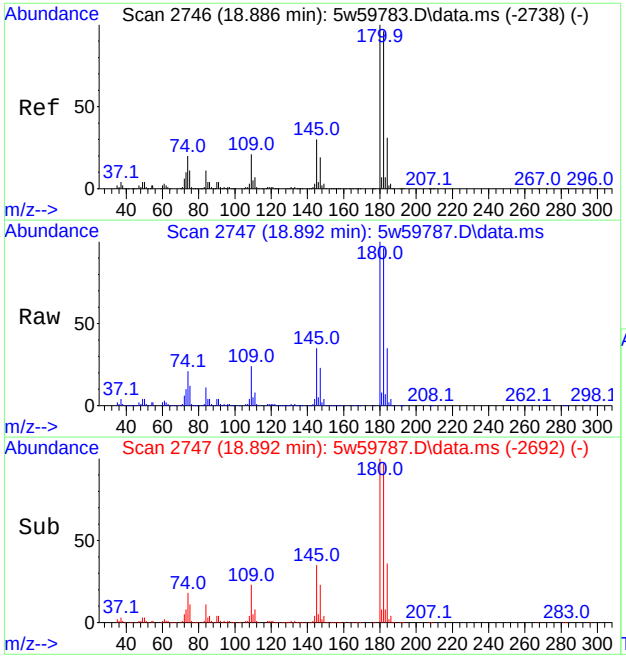


#106
HEXACHLOROBUTADIENE
Concen: 42.04 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:225 Resp: 6941797

Ion	Ratio	Lower	Upper
225	100		
227	66.3	34.2	94.2
223	65.7	33.3	93.3

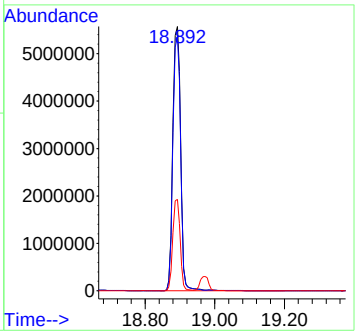


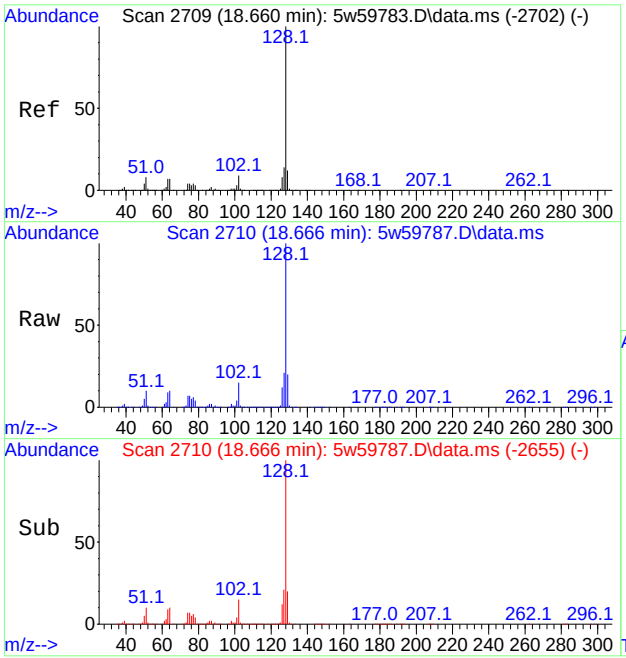


#107
1,2,4-TRICHLOROBENZENE
Concen: 50.18 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:180 Resp: 8668660

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	32.7	0.0	59.4

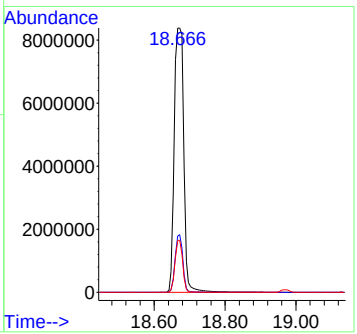


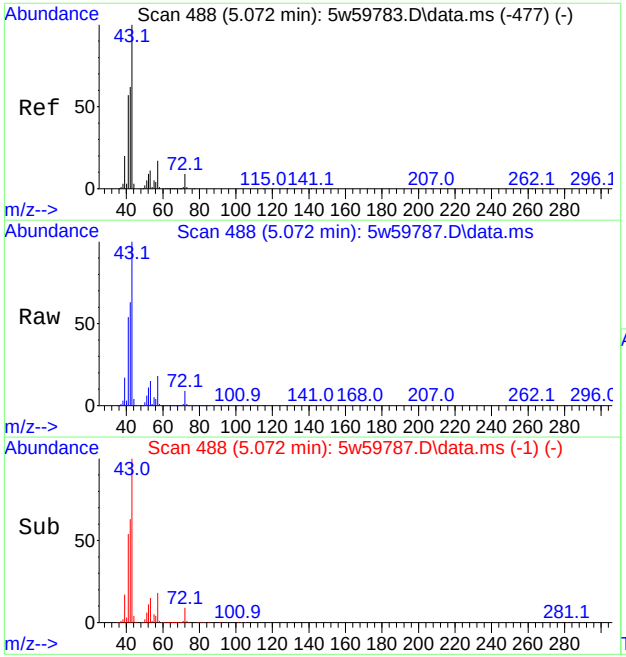


#108
NAPHTHALENE
Concen: 41.73 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:128 Resp:15644412

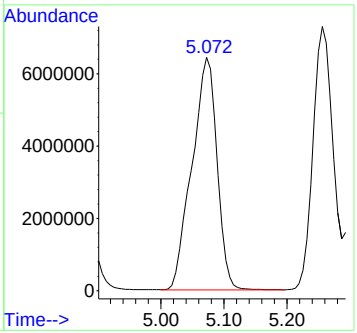
Ion	Ratio	Lower	Upper
128	100		
127	17.9	0.0	43.3
129	16.0	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 64.59 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:TIC Resp:17678397



7.7.10

7

Manual Integration Approval Summary

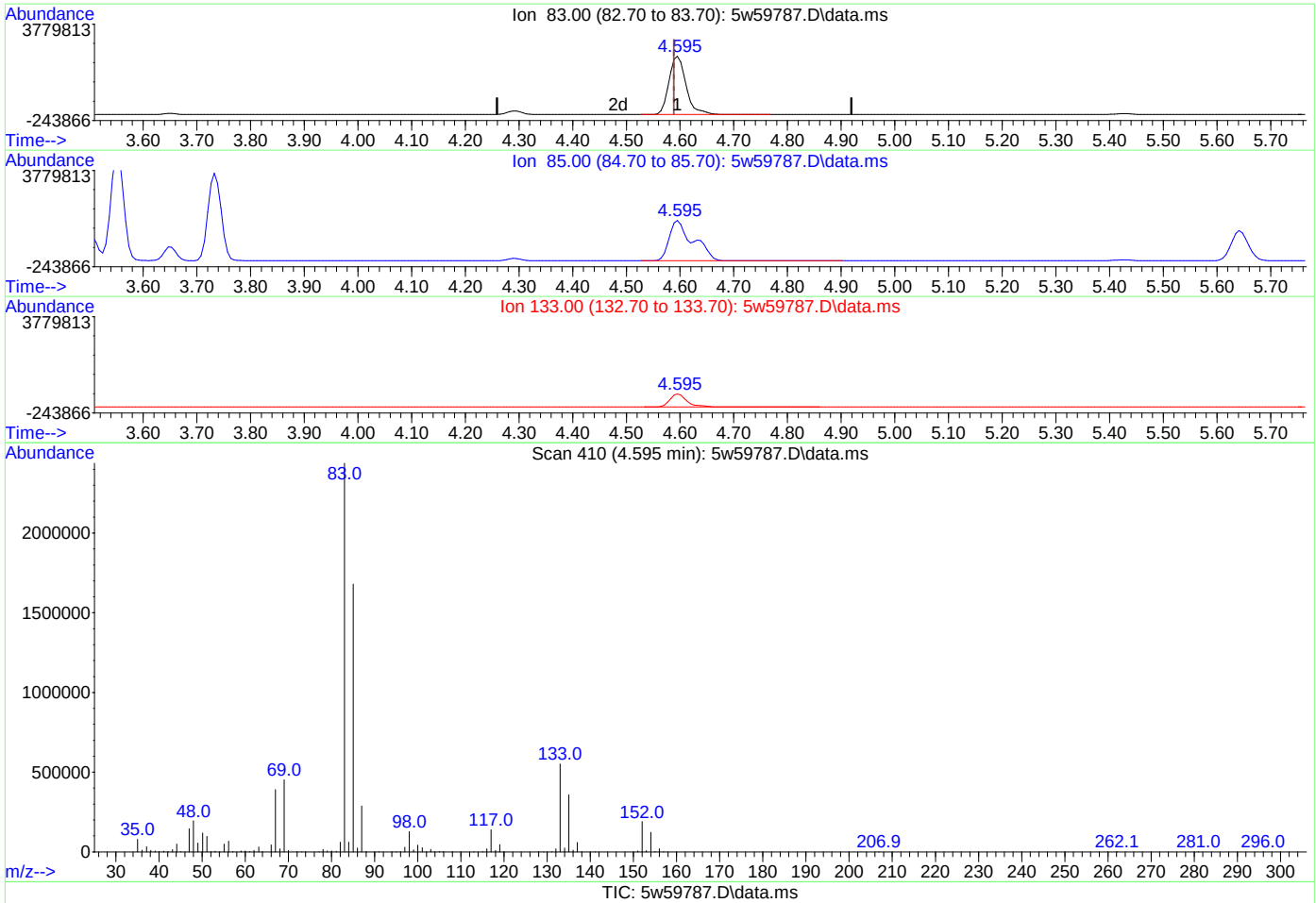
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59787.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 10:24 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV

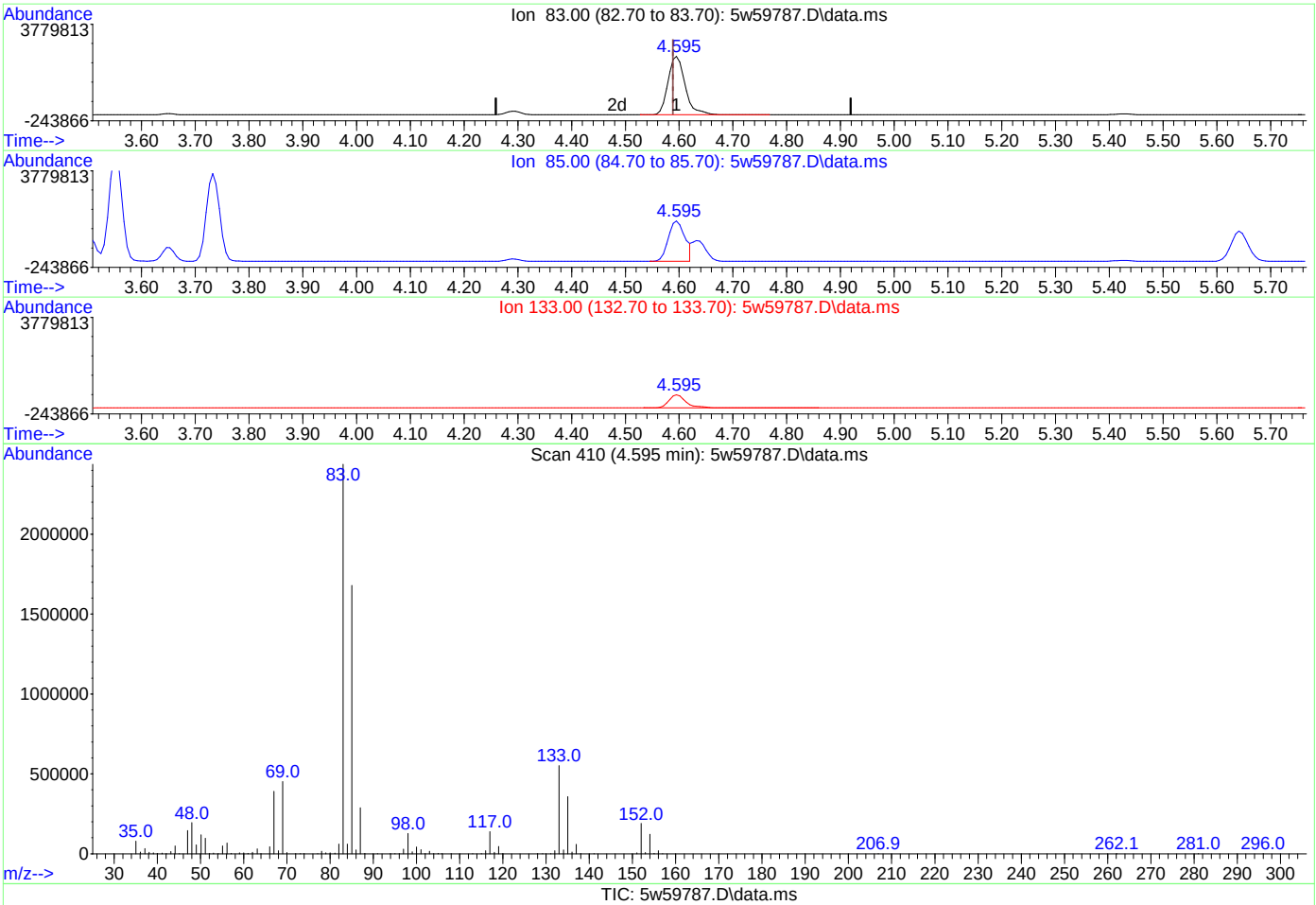
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	96.25#
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV m

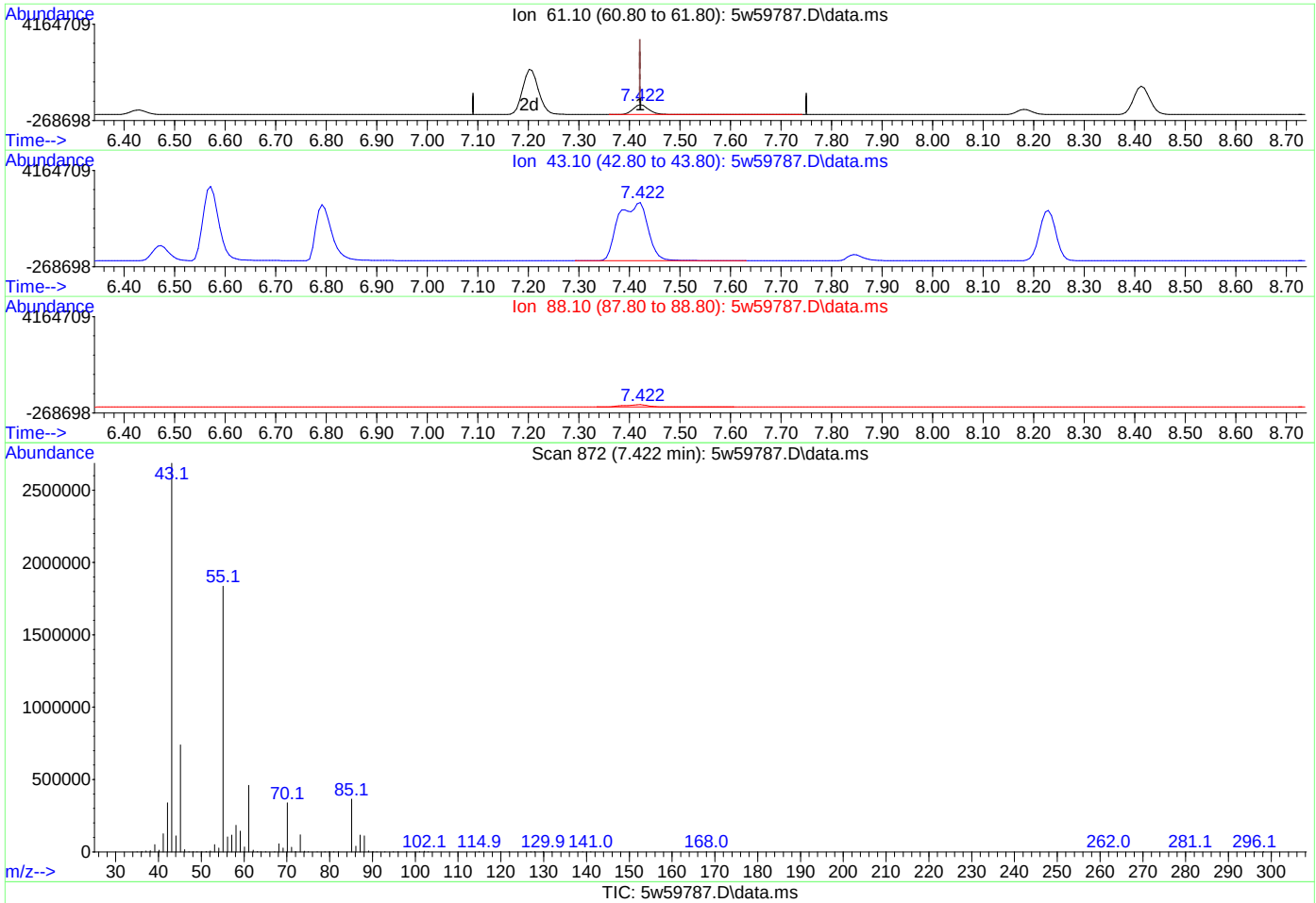
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	67.57
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV

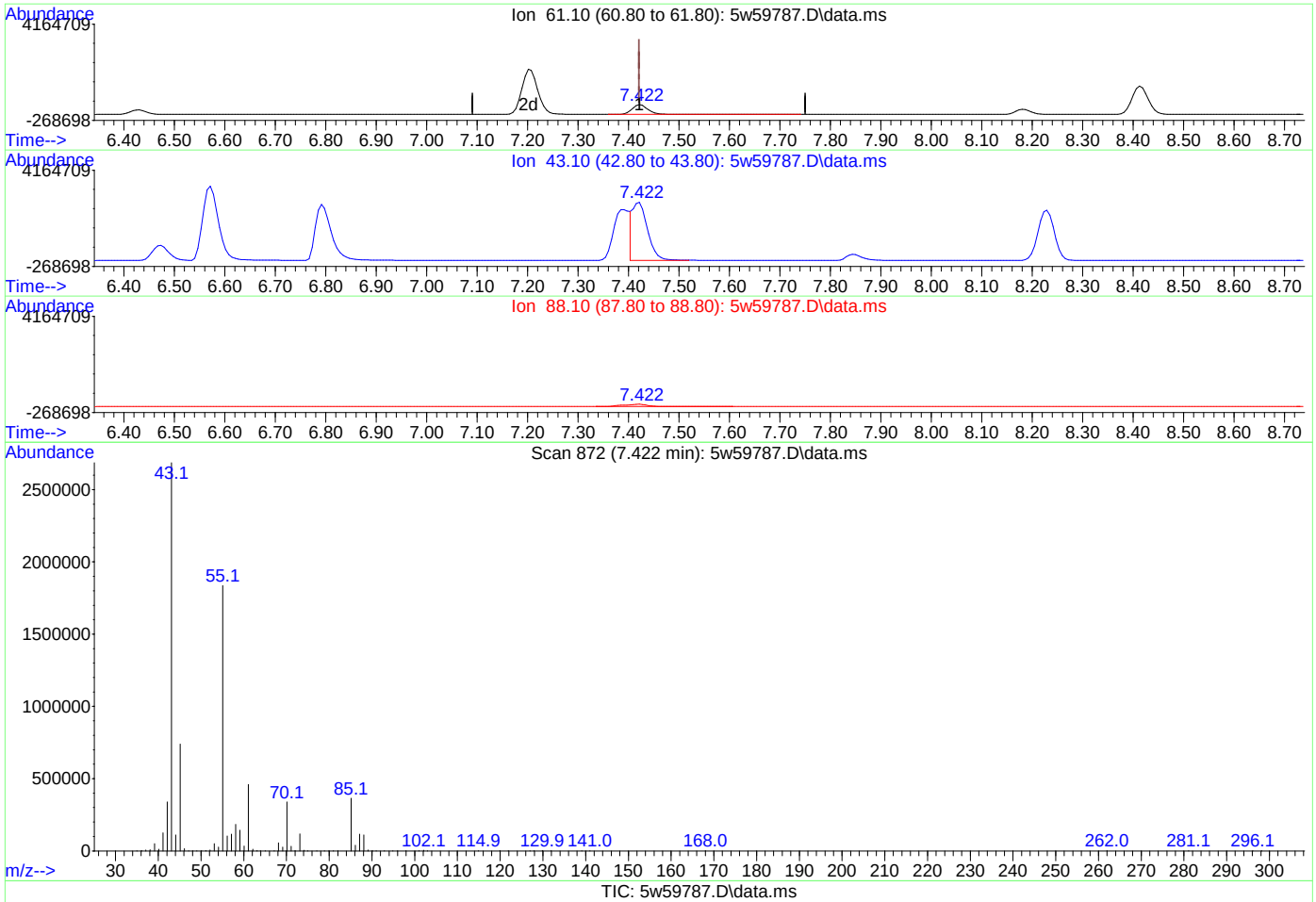
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1080.14#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV m

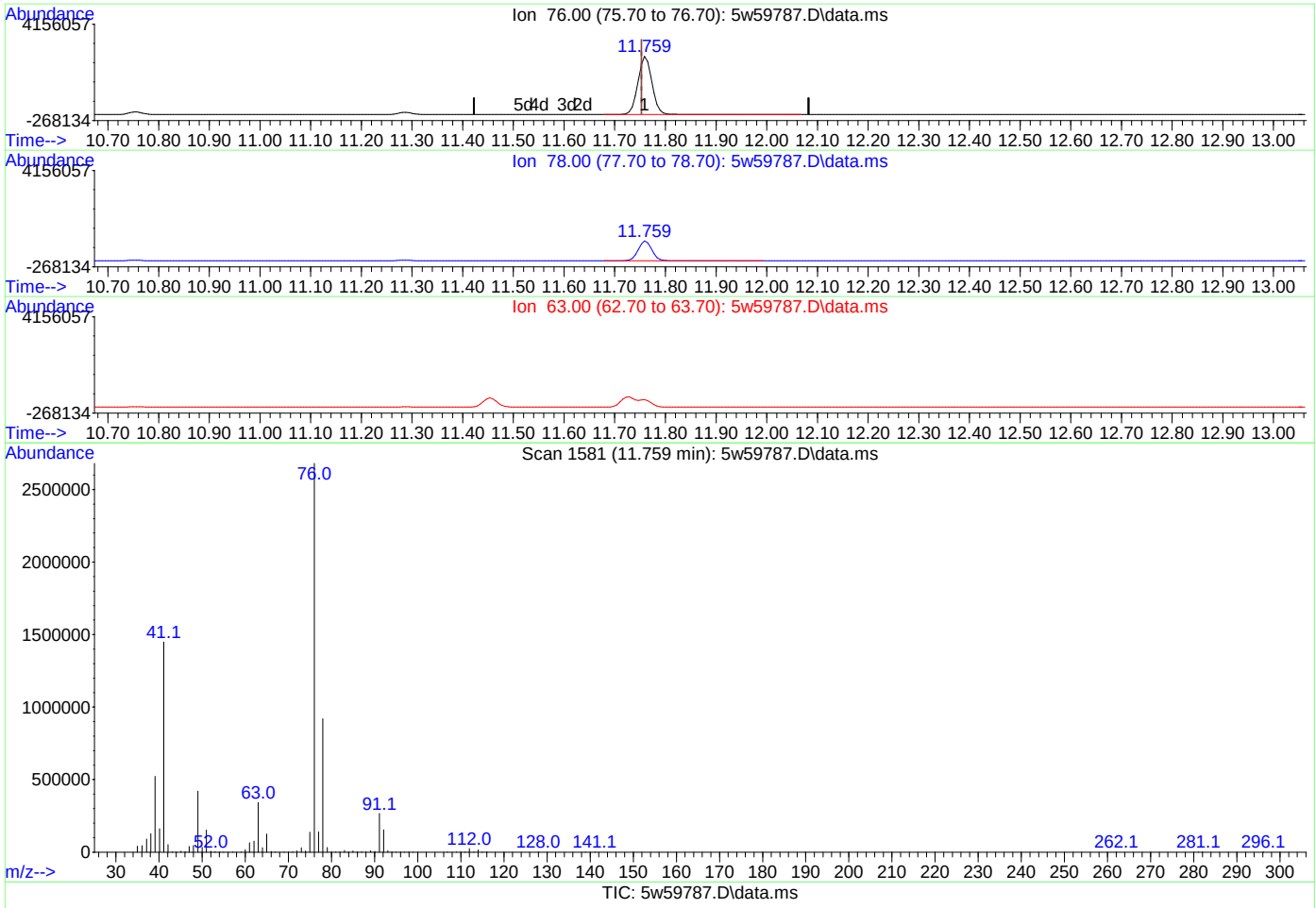
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	545.04#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV

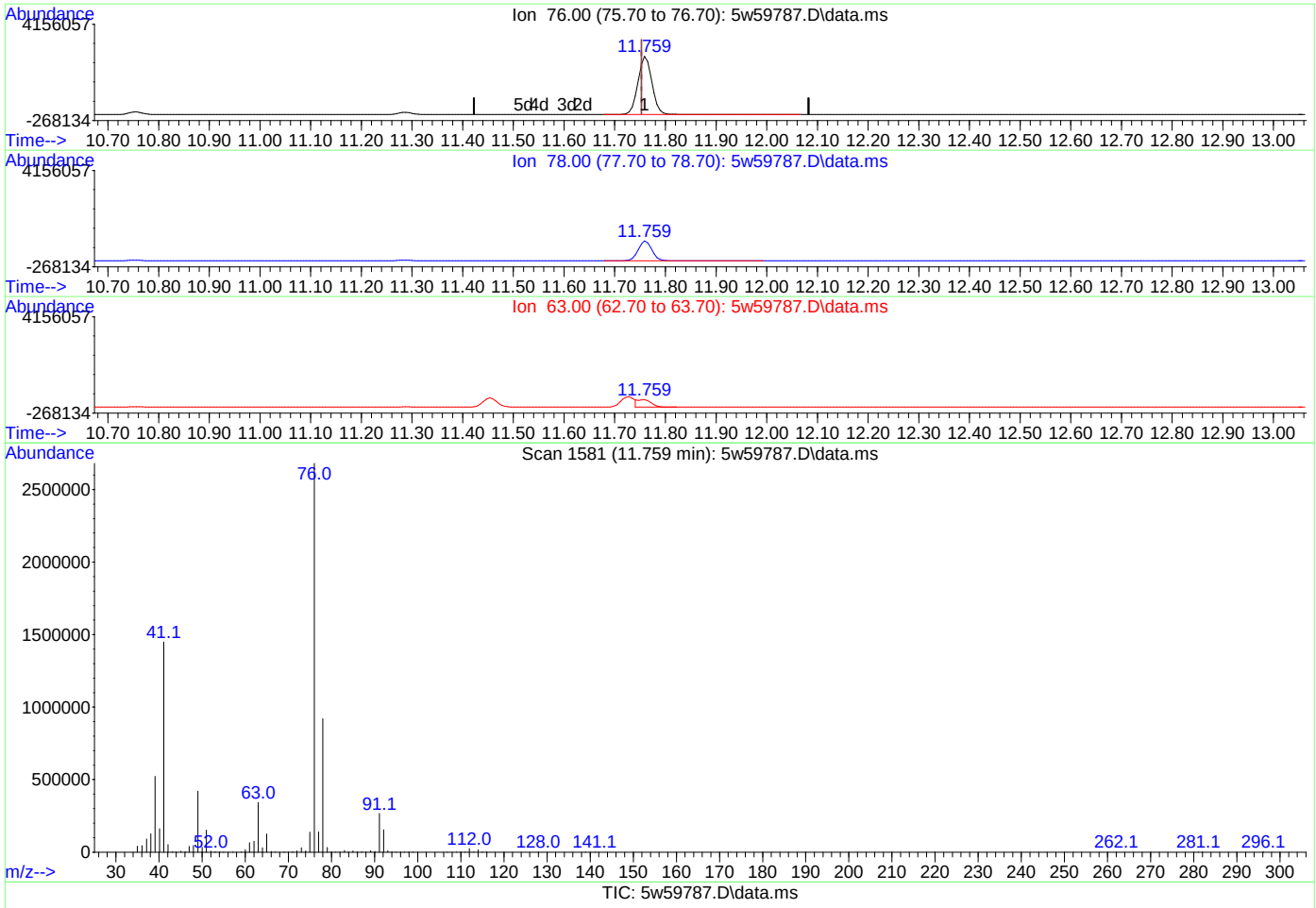
response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV m

response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	12.12
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	498212	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2163467	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1167536	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	498212	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1483789	10.17	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.70%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	415215	12.16	PPBV	100
3) FREON 152A	3.445	65	342794	9.28	PPBV	99
4) CHLORODIFLUOROMETHANE	3.476	67	168320	10.89	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	800294	10.34	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.549	85	1577776	11.07	PPBV	99
7) PROPYLENE	3.500	41	381437	9.97	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1137041	9.85	PPBV	100
9) FREON 114	3.732	85	1508684	11.57	PPBV	99
10) CHLOROMETHANE	3.665	52	156659	10.00	PPBV	98
11) VINYL CHLORIDE	3.818	62	498882	10.34	PPBV	99
12) 1,3-BUTADIENE	3.910	54	299983	10.32	PPBV	99
13) n-BUTANE	3.947	43	491620	10.35	PPBV	99
14) BROMOMETHANE	4.106	94	546593	10.65	PPBV	100
15) CHLOROETHANE	4.228	64	217760	9.25	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1122027	10.94	PPBV	100
17) ACETONITRILE	4.479	41	273749	10.09	PPBV	100
18) ACROLEIN	4.571	56	174000	11.29	PPBV	98
19) FREON 123	4.589	83	1172331	9.88	PPBV	73
20) FREON 123A	4.632	117	658691	9.67	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1322128	10.86	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	957946	9.81	PPBV	99
23) ACETONE	4.675	58	182115	9.32	PPBV	97
24) PENTANE	5.072	42	485024	9.56	PPBV	99
25) IODOMETHANE	5.256	142	1656951	10.92	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	514235	9.62	PPBV	99
27) CARBON DISULFIDE	5.672	76	1333722	9.53	PPBV	99
28) ETHANOL	4.314	45	175873	10.75	PPBV	99
29) BROMOETHENE	4.479	106	523753	10.35	PPBV	100
30) ACRYLONITRILE	5.042	52	335497	10.15	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	460743	9.22	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	235062	9.77	PPBV	98
33) FREON 113	5.641	151	936508	10.53	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	523452	9.34	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.372	59	1150749	11.52	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1424107	10.10	PPBV	100
37) TETRAHYDROFURAN	7.856	72	236078	12.20	PPBV	99
38) HEXANE	7.379	57	814752	10.24	PPBV	100
39) VINYL ACETATE	6.565	86	92915	11.55	PPBV #	94
40) 1,1-DICHLOROETHANE	6.424	63	1012856	9.85	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	231727	12.04	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.195	96	576053	9.43	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	255743	12.23	PPBV	99
44) ETHYL ACETATE	7.415	61	170036	11.56	PPBV #	1
45) METHYL ACRYLATE	7.403	55	1019941	12.95	PPBV	100
46) CHLOROFORM	7.477	83	1206541	10.89	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	967097	10.74	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1259183	10.90	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1361951	10.85	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	857881	11.15	PPBV		100
52)	BENZENE	8.853	78	1601042	11.05	PPBV		100
53)	CYCLOHEXANE	9.104	84	624324	10.78	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	314676	10.75	PPBV		98
55)	TRICHLOROETHYLENE	9.887	95	782511	10.60	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	634380	9.43	PPBV		100
57)	DIBROMOMETHANE	9.630	174	826704	10.02	PPBV		100
58)	ETHYL ACRYLATE	9.679	55	1259813	11.98	PPBV		100
59)	BROMODICHLOROMETHANE	9.850	83	1390089	10.86	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2555629	11.14	PPBV		100
61)	1,4-DIOXANE	9.899	88	390530	11.81	PPBV	#	89
62)	HEPTANE	10.187	43	861635	10.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	552495	11.70	PPBV		100
64)	METHYL ISOBUTYL KETONE	10.792	58	532725	12.46	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	10.749	75	990327	9.61	PPBV		100
66)	TOLUENE	11.722	92	1196655	11.05	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	950675	10.77	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	940495	9.66	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	646298	10.99	PPBV		100
71)	2-HEXANONE	12.010	58	770539	12.62	PPBV		99
72)	ETHYL METHACRYLATE	12.022	69	966723	11.99	PPBV		99
73)	TETRACHLOROETHYLENE	12.872	164	915172	11.49	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.150	129	1566467	11.39	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	1272221	11.89	PPBV		100
76)	OCTANE	12.744	43	1249572	11.27	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1017442	11.62	PPBV		99
78)	CHLOROBENZENE	13.582	112	1647850	11.30	PPBV		100
79)	ETHYLBENZENE	13.986	91	2597260	11.61	PPBV		100
80)	m,p-XYLENE	14.182	106	2050019	23.24	PPBV		100
81)	o-XYLENE	14.677	106	1016013	12.30	PPBV		99
82)	STYRENE	14.567	104	1531560	11.88	PPBV		100
83)	NONANE	14.934	43	1246325	11.11	PPBV		100
84)	BROMOFORM	14.249	173	1671641	12.32	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1743965	12.14	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1202955	10.42	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2910298	11.51	PPBV		100
89)	BROMOBENZENE	15.374	77	1429493	10.87	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	779180	11.13	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	807953	11.92	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2990249	12.93	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2480601	11.54	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.194	118	1177774	11.12	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	570968	13.08	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2612198	13.02	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1916772	12.50	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2335931	12.63	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1889997	11.46	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	670798	12.13	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2623929	12.36	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	794033	12.67	PPBV		100
103)	o-DICHLOROBENZENE	16.977	146	1807576	11.75	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	753590	12.27	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1153176	10.90	PPBV		100
106)	HEXACHLOROBUTADIENE	18.966	225	1732361	12.11	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1717833	12.05	PPBV		99
108)	NAPHTHALENE	18.660	128	3898122	12.54	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	3177953	10.55	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

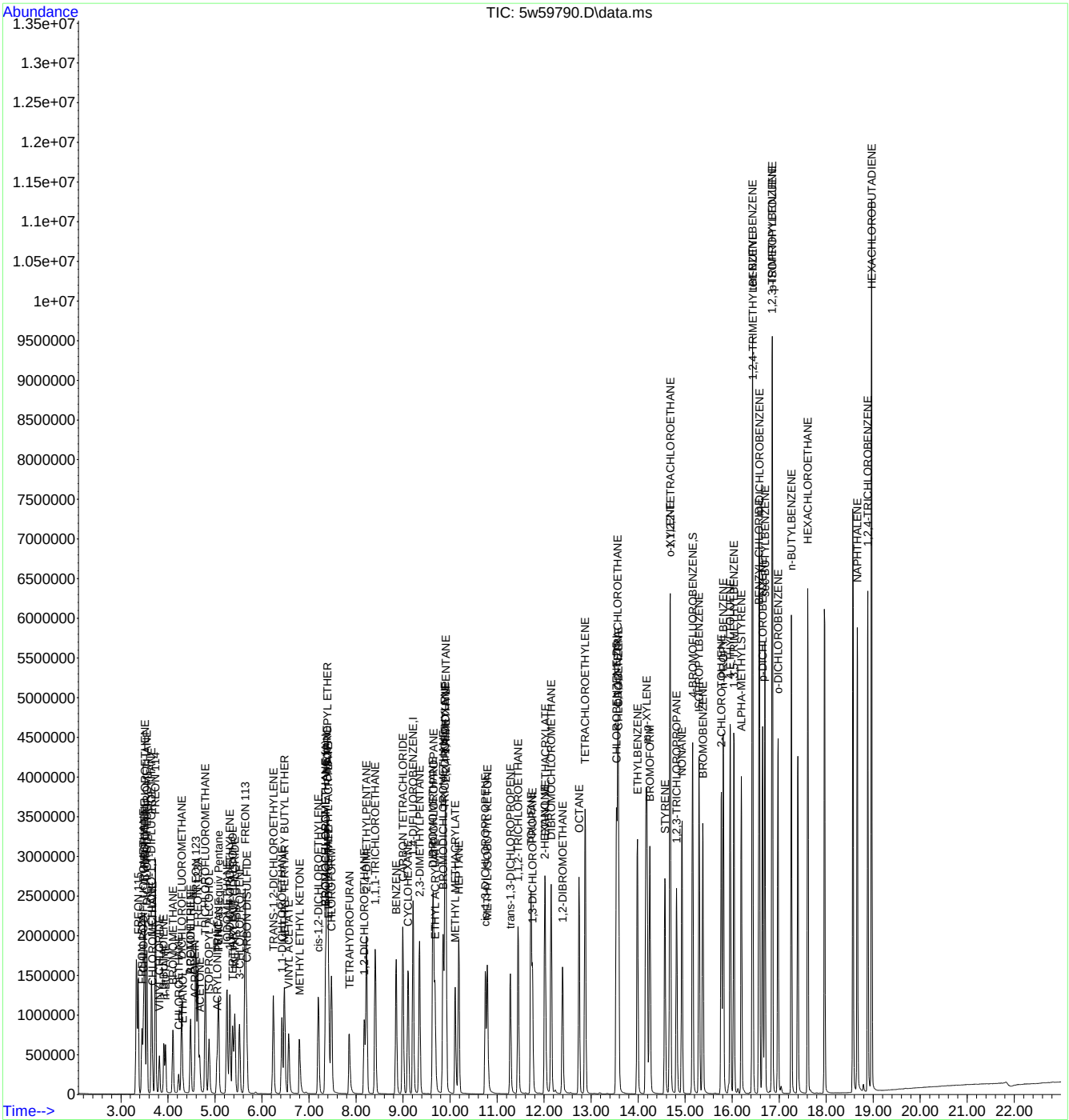
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

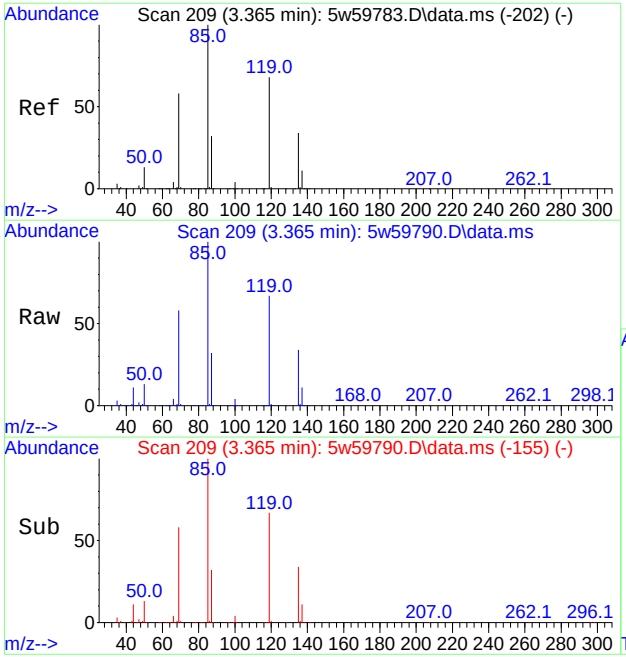
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

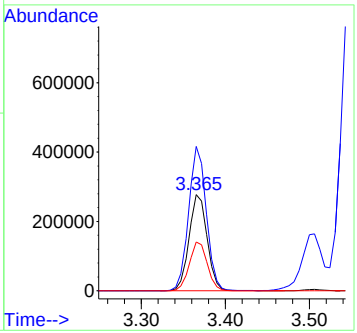


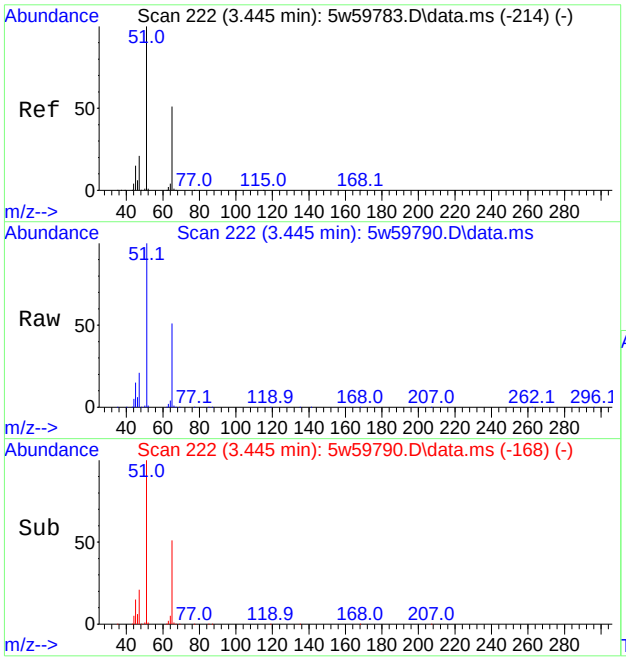


#2
FREON 115
Concen: 12.16 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:119 Resp: 415215

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.4	20.6	80.6

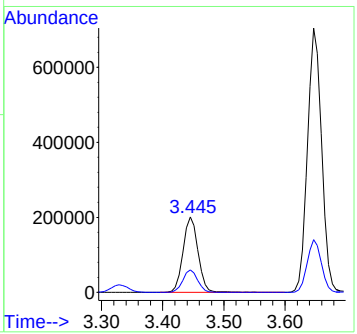


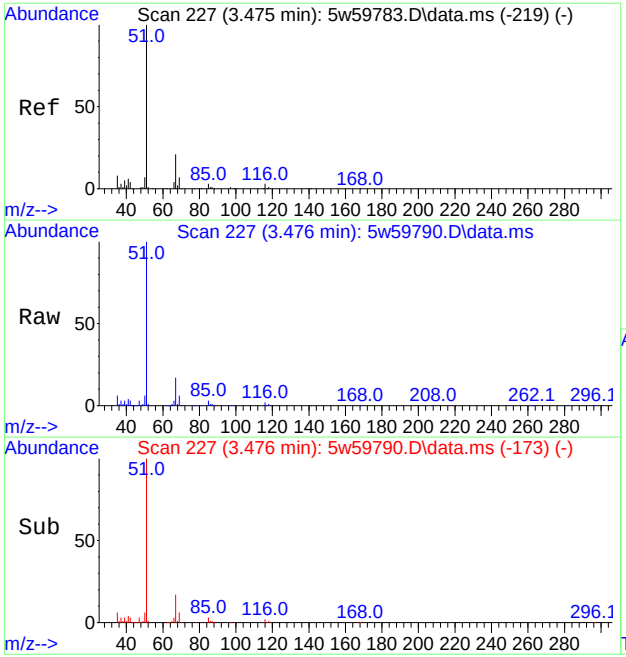


#3
FREON 152A
Concen: 9.28 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 342794

Ion	Ratio	Lower	Upper
65	100		
45	29.5	0.0	60.0

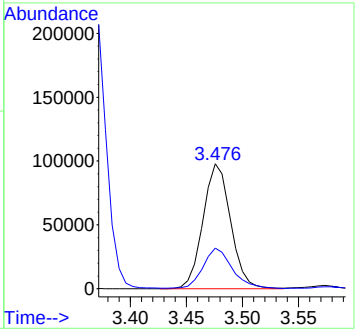


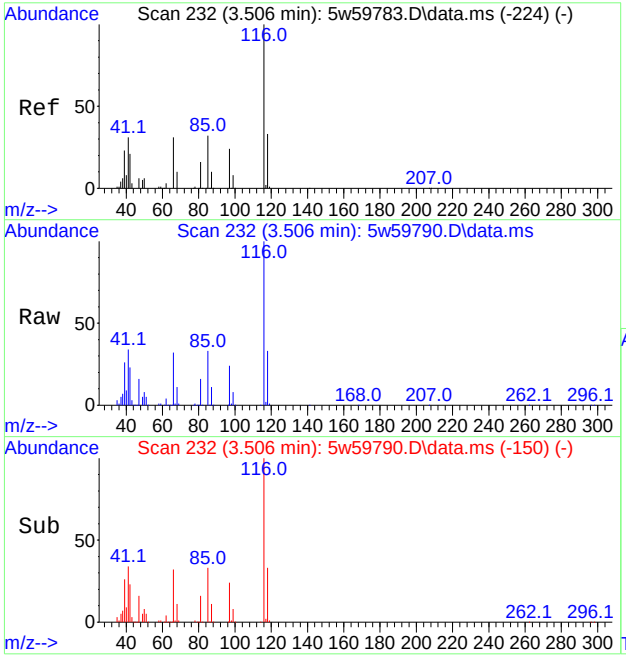


#4
CHLORODIFLUOROMETHANE
Concen: 10.89 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 168320

Ion	Ratio	Lower	Upper
67	100		
69	32.5	1.0	61.0

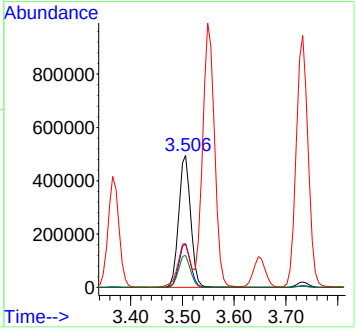


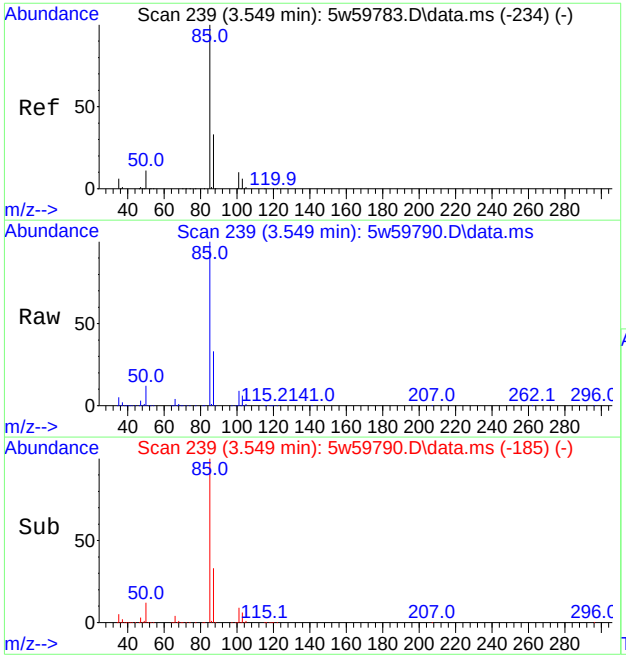


#5
CHLOROTRIFLUOROETHENE
Concen: 10.34 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:116 Resp: 800294

Ion	Ratio	Lower	Upper
116	100		
118	32.6	22.9	42.5
85	37.1	23.7	44.1
97	24.1	17.0	31.6

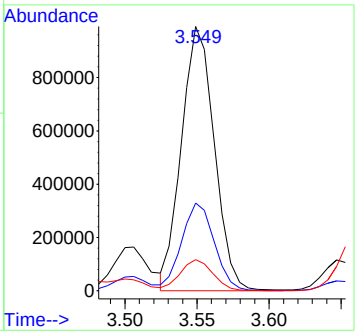


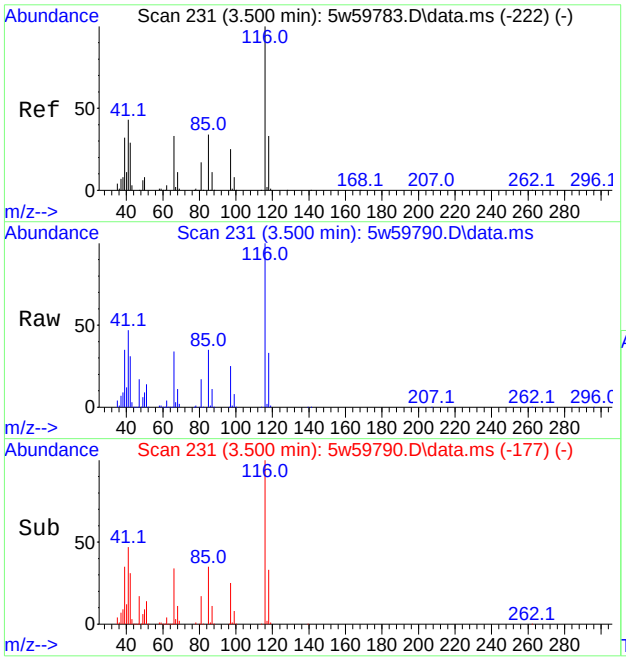


#6
DICHLORODIFLUOROMETHANE
Concen: 11.07 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1577776

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

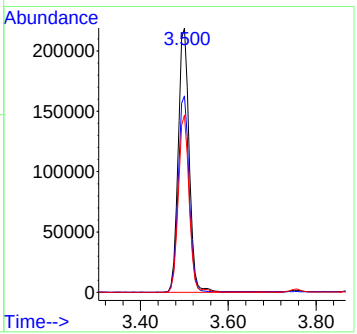


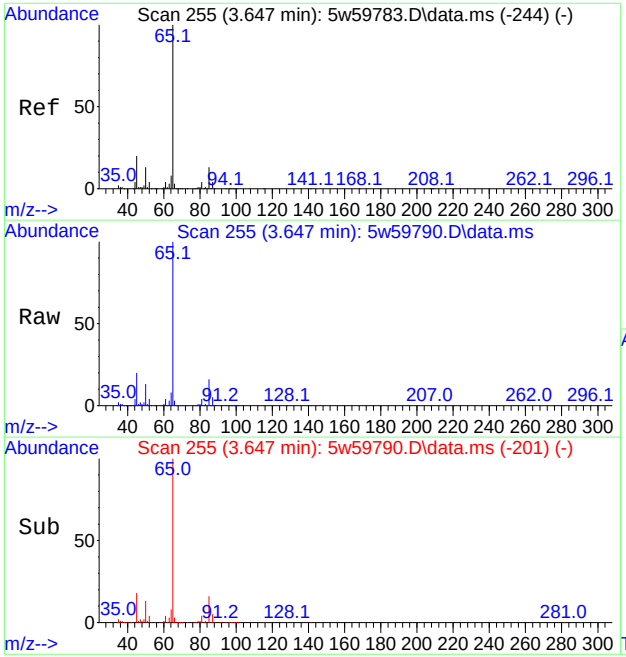


#7
PROPYLENE
Concen: 9.97 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 381437

Ion	Ratio	Lower	Upper
41	100		
39	75.5	45.1	105.1
42	66.3	36.3	96.3

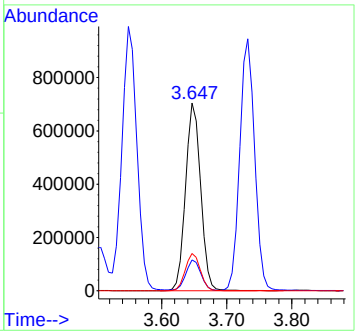


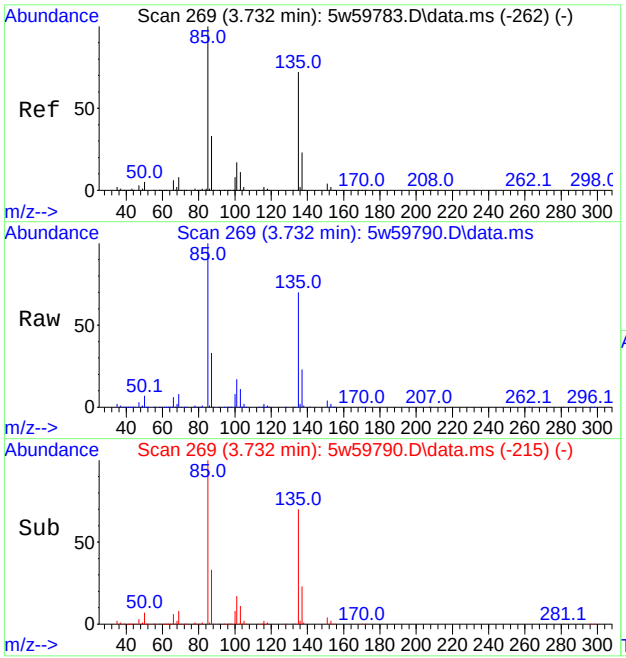


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 9.85 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 1137041

Ion	Ratio	Lower	Upper
65	100		
85	16.5	11.5	21.3
45	20.0	14.0	26.0

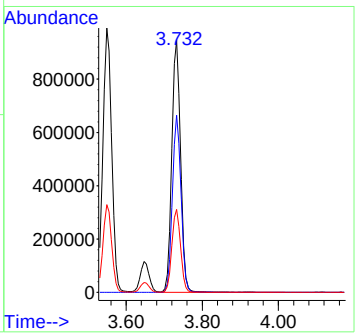


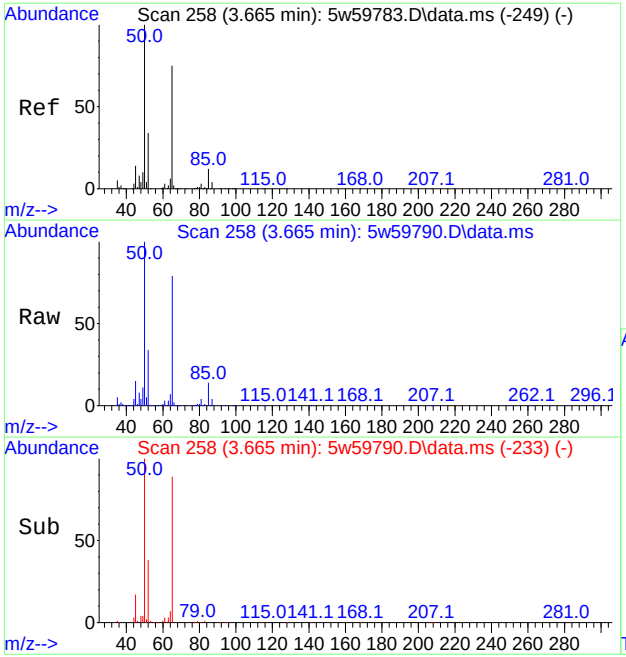


#9
FREON 114
Concen: 11.57 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1508684

Ion	Ratio	Lower	Upper
85	100		
135	69.6	40.5	100.5
87	32.8	3.0	63.0

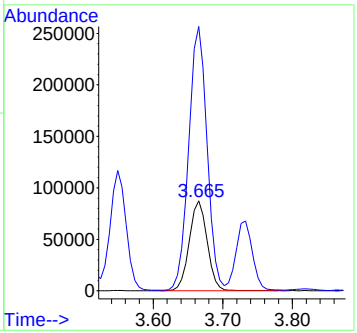


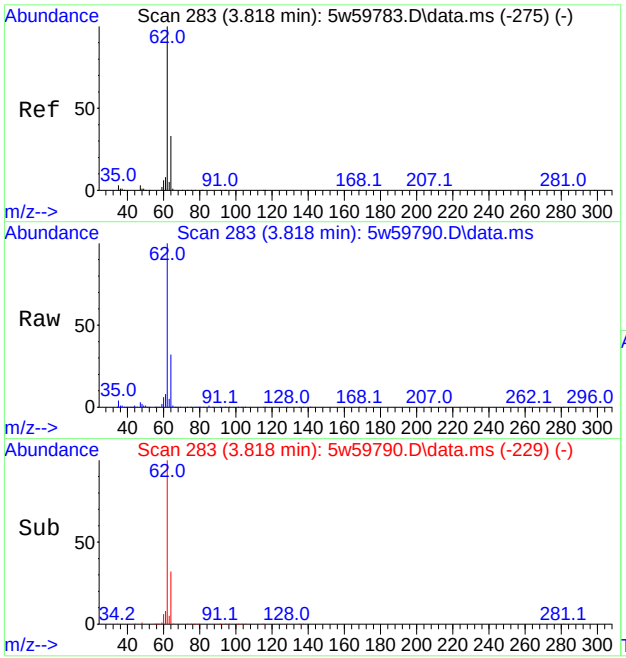


#10
CHLOROMETHANE
Concen: 10.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 156659

Ion	Ratio	Lower	Upper
52	100		
50	293.1	267.9	327.9

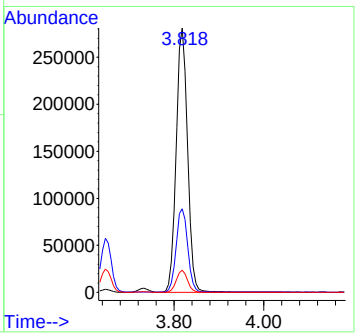


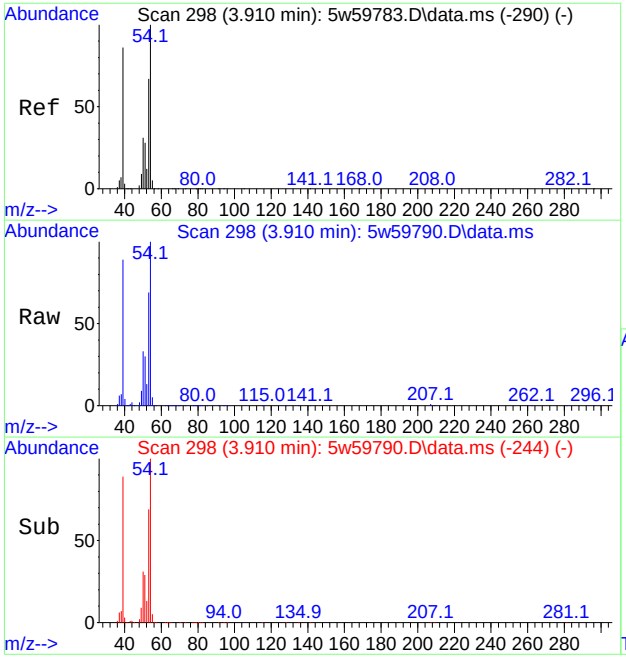


#11
VINYL CHLORIDE
Concen: 10.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 498882

Ion	Ratio	Lower	Upper
62	100		
64	32.9	3.6	63.6
61	8.2	0.0	38.2

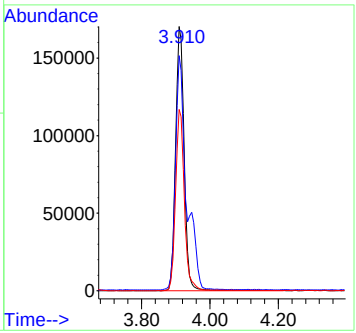


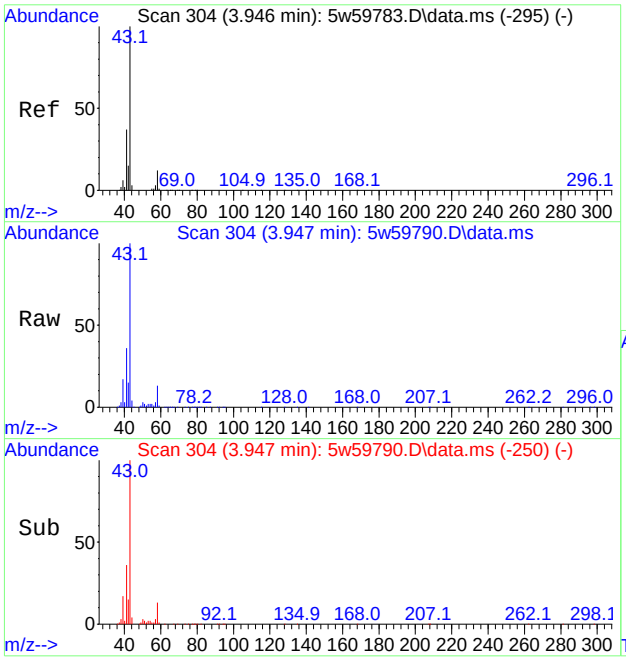


#12
1,3-BUTADIENE
Concen: 10.32 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 54 Resp: 299983

Ion	Ratio	Lower	Upper
54	100		
39	113.6	82.0	142.0
53	71.1	40.2	100.2

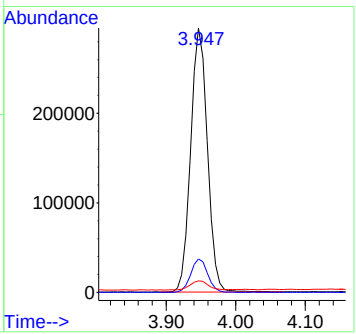


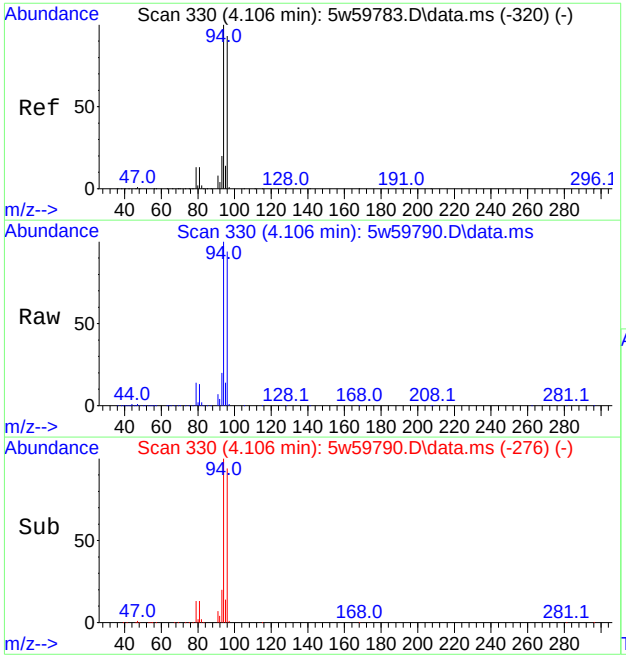


#13
n-BUTANE
Concen: 10.35 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 491620

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	3.8	0.0	34.9

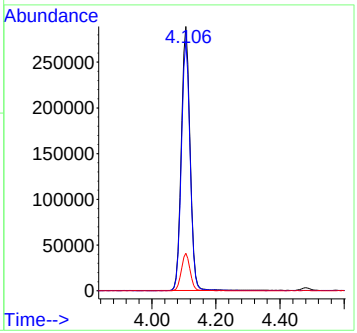


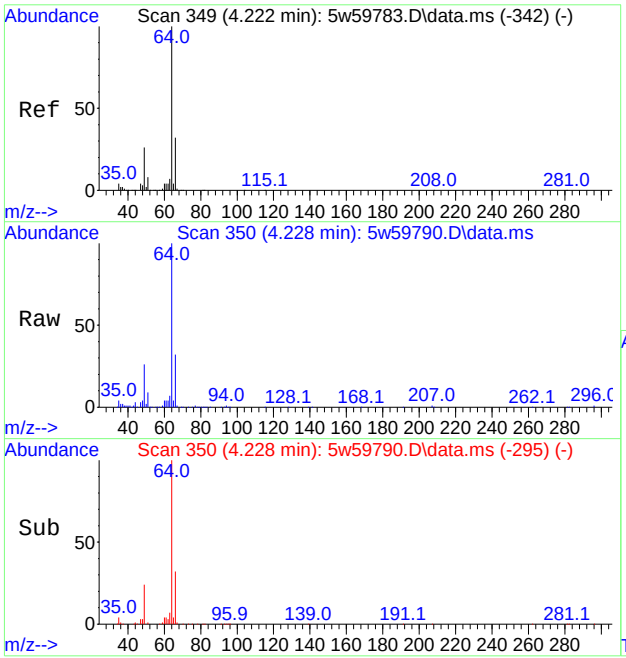


#14
BROMOMETHANE
Concen: 10.65 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 94 Resp: 546593

Ion	Ratio	Lower	Upper
94	100		
96	95.2	65.3	125.3
95	14.3	0.0	44.1

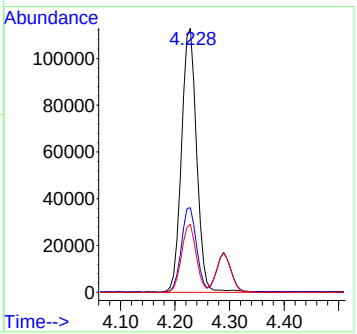


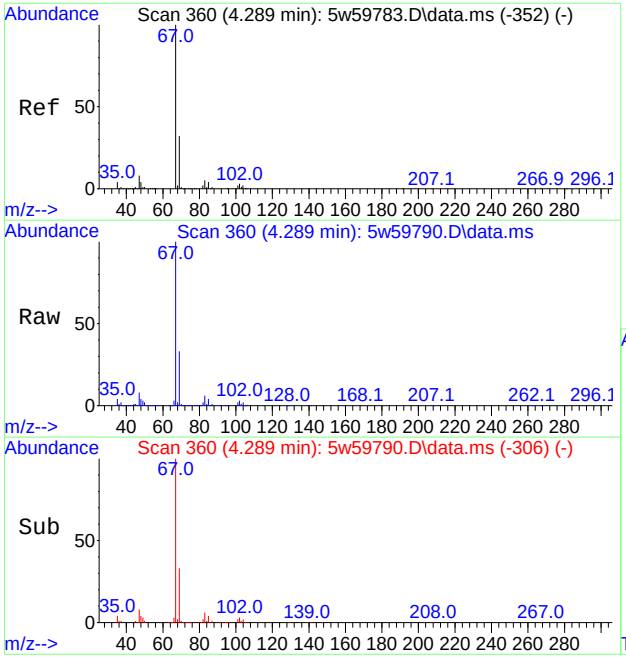


#15
CHLOROETHANE
Concen: 9.25 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 64 Resp: 217760

Ion	Ratio	Lower	Upper
64	100		
66	32.0	3.1	63.1
49	25.0	0.0	55.3

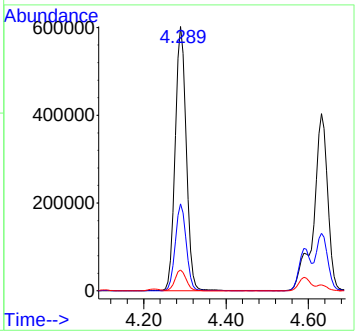


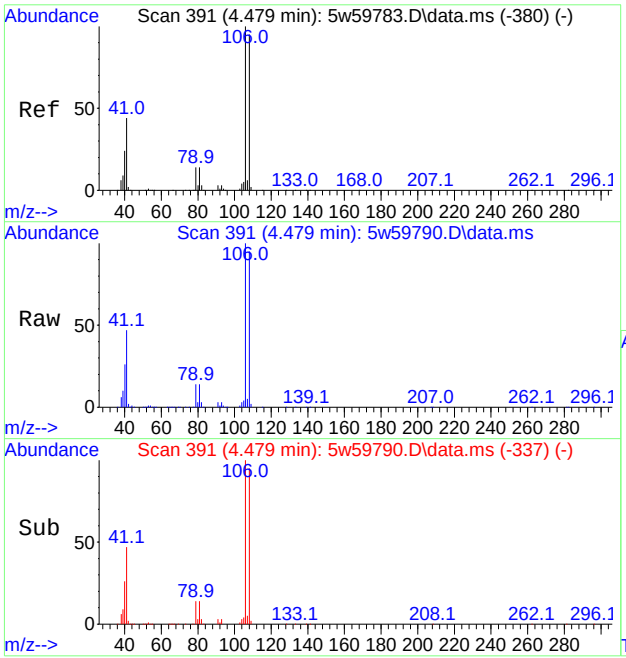


#16
DICHLOROFLUOROMETHANE
Concen: 10.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 1122027

Ion	Ratio	Lower	Upper
67	100		
69	32.6	22.7	42.3
47	8.0	5.6	10.4

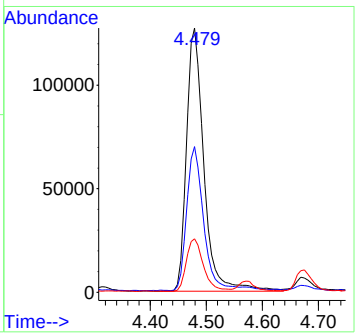


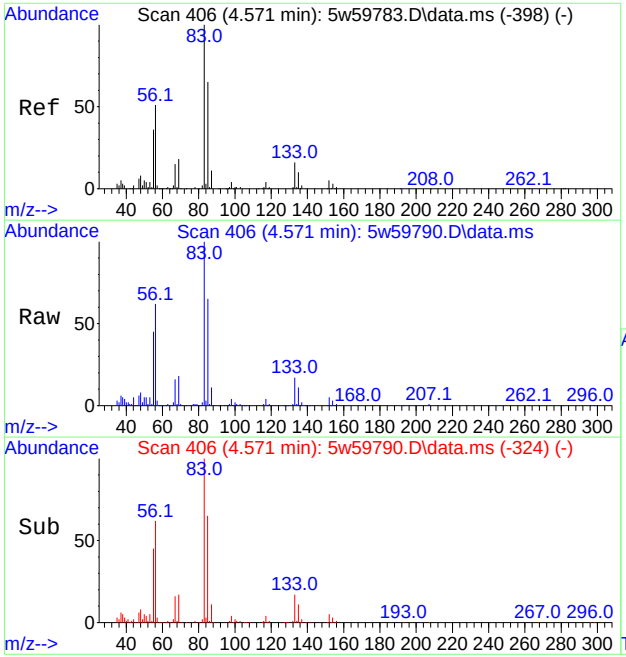


#17
ACETONITRILE
Concen: 10.09 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 273749

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.5	13.4	24.8

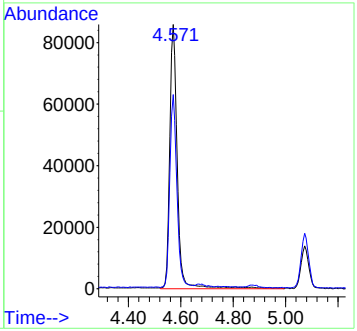


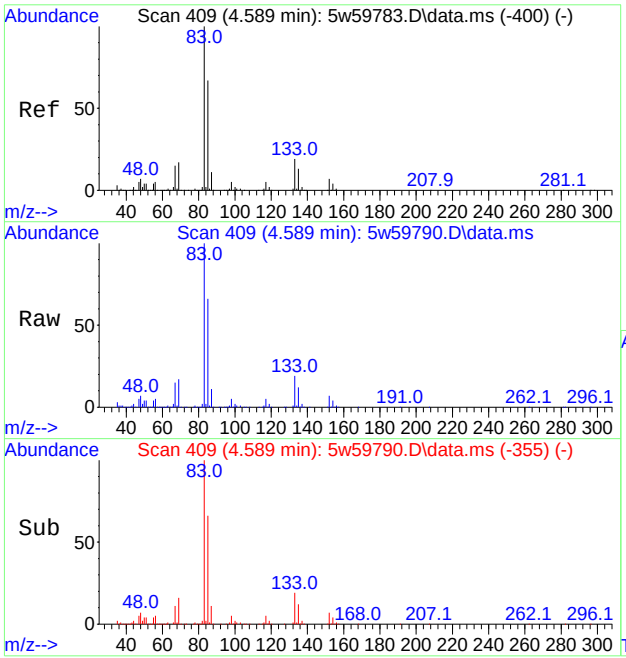


#18
ACROLEIN
Concen: 11.29 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 56 Resp: 174000

Ion	Ratio	Lower	Upper
56	100		
55	68.2	46.6	86.6

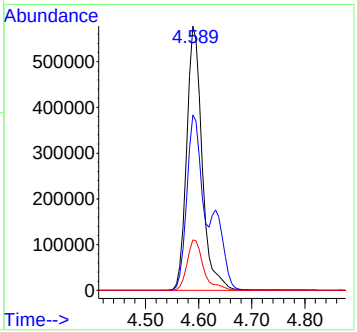


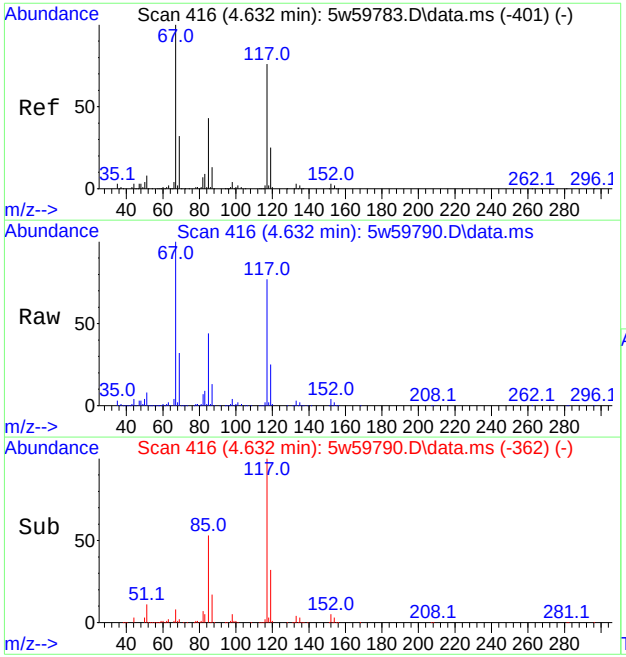


#19
FREON 123
Concen: 9.88 PPBV
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1172331

Ion	Ratio	Lower	Upper
83	100		
85	92.1	34.0	94.0
133	20.4	0.0	50.7

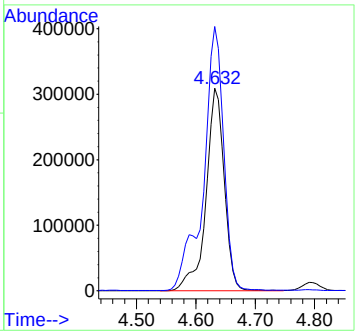


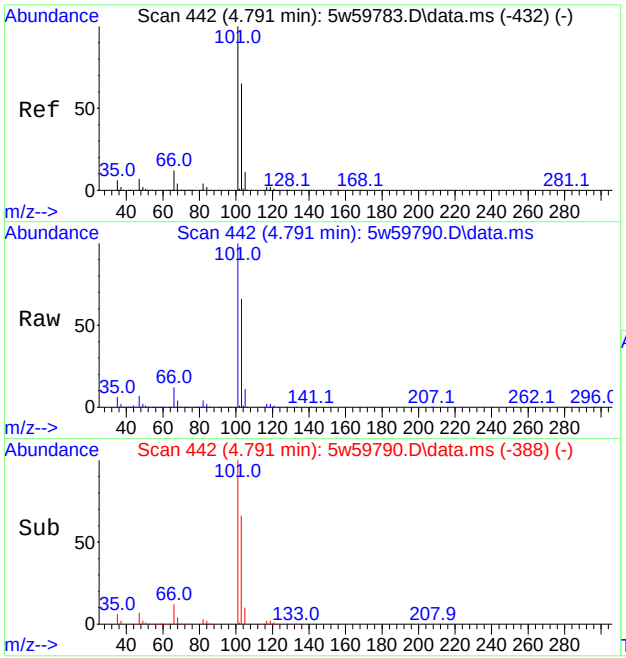


#20
FREON 123A
Concen: 9.67 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 658691

Ion	Ratio	Lower	Upper
117	100		
67	145.1	114.6	174.6

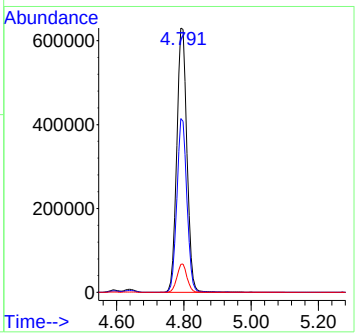


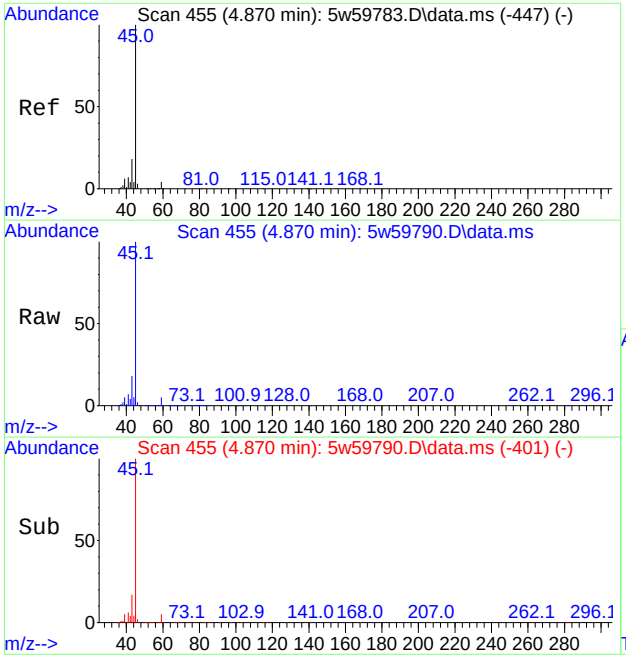


#21
TRICHLOROFLUOROMETHANE
Concen: 10.86 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:101 Resp: 1322128

Ion	Ratio	Lower	Upper
101	100		
103	65.1	35.0	95.0
105	10.7	0.0	40.7

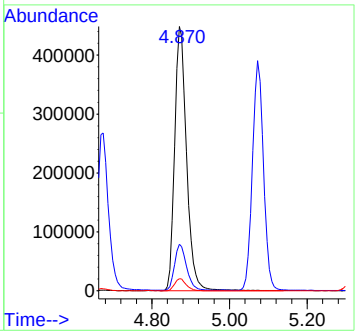


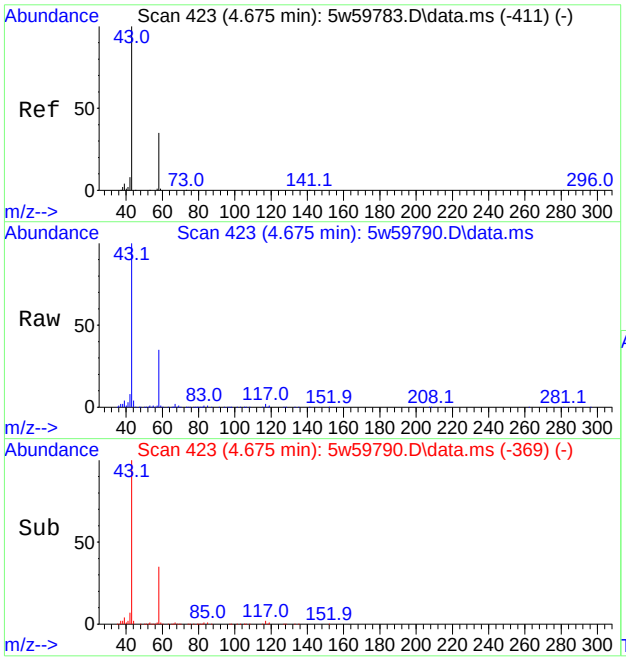


#22
ISOPROPYL ALCOHOL
Concen: 9.81 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 957946

Ion	Ratio	Lower	Upper
45	100		
43	17.6	0.0	47.8
59	4.6	0.0	34.1

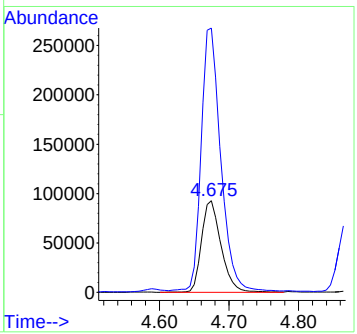


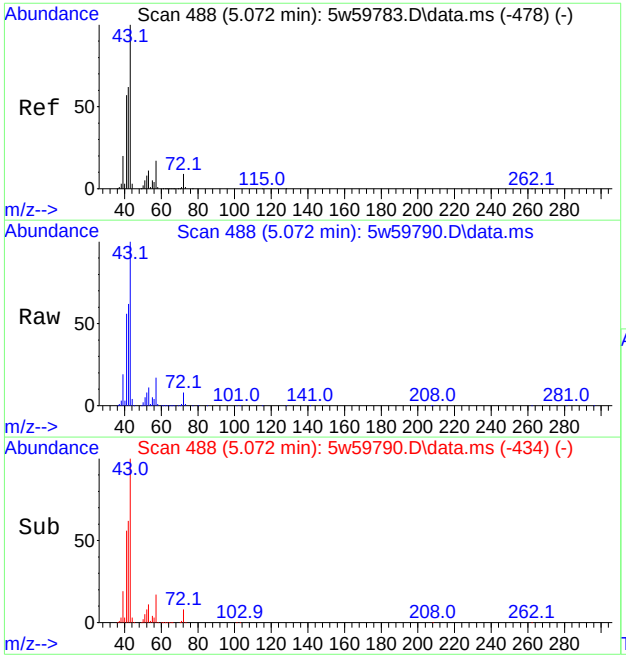


#23
ACETONE
Concen: 9.32 PPBV
RT: 4.675 min Scan# 423
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 182115

Ion	Ratio	Lower	Upper
58	100		
43	287.5	252.3	312.3

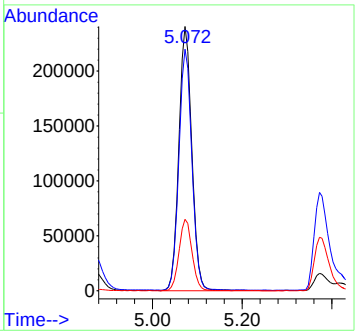


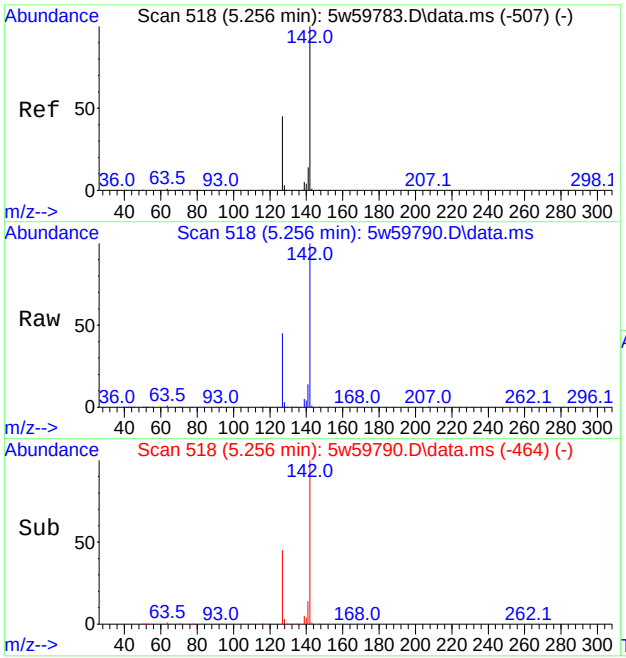


#24
PENTANE
Concen: 9.56 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 42 Resp: 485024

Ion	Ratio	Lower	Upper
42	100		
41	91.0	62.3	122.3
57	27.3	0.0	57.7

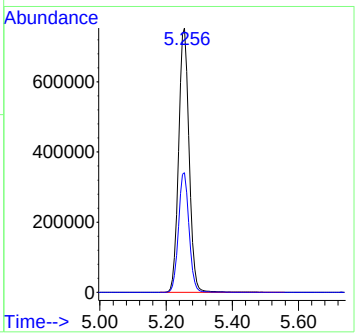


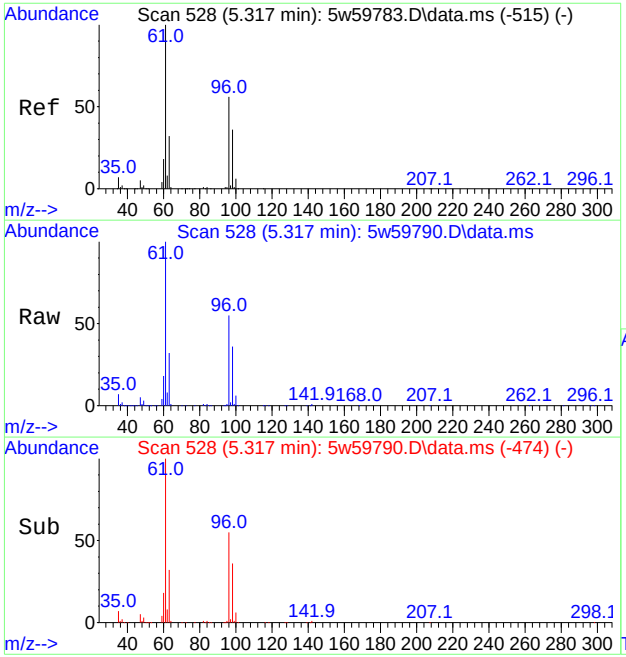


#25
IODOMETHANE
Concen: 10.92 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:142 Resp: 1656951

Ion	Ratio	Lower	Upper
142	100		
127	45.8	16.0	76.0

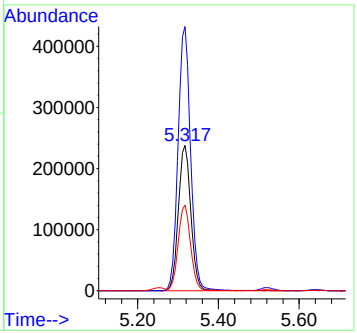


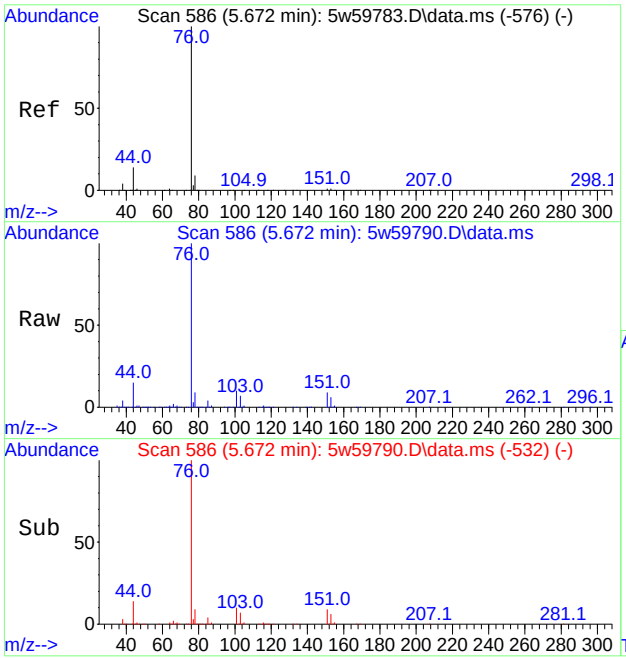


#26
1,1-DICHLOROETHYLENE
Concen: 9.62 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 514235

Ion	Ratio	Lower	Upper
96	100		
61	180.7	148.5	208.5
63	58.0	27.4	87.4

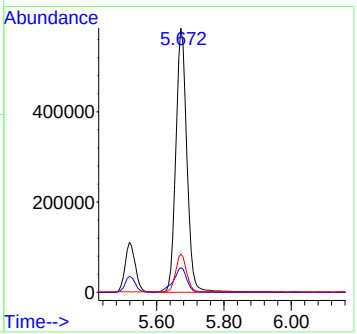


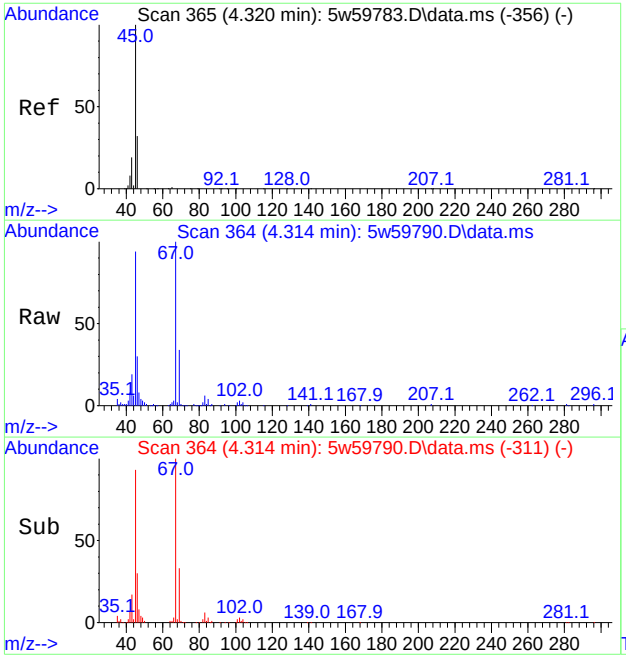


#27
CARBON DISULFIDE
Concen: 9.53 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 1333722

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	14.3	0.0	44.6

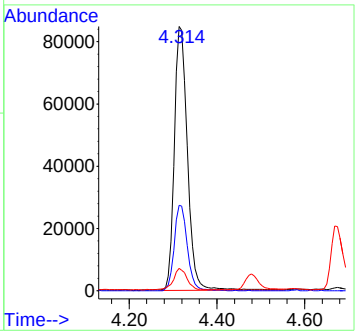


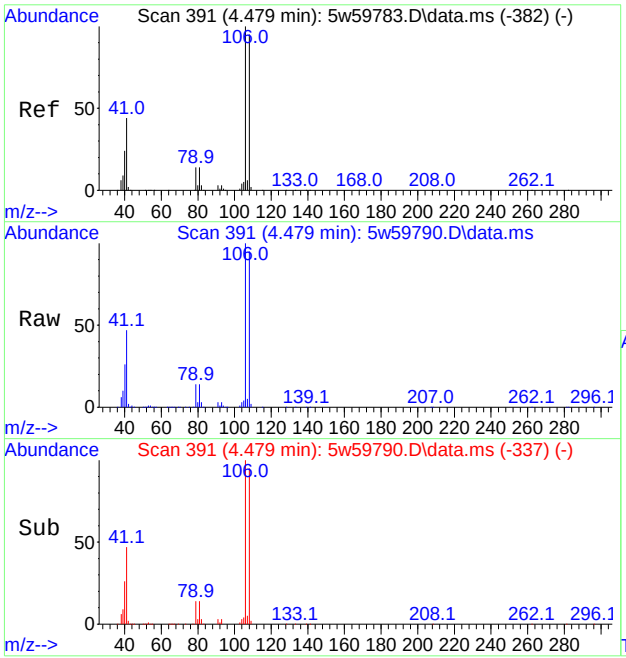


#28
ETHANOL
Concen: 10.75 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 175873

Ion	Ratio	Lower	Upper
45	100		
46	32.5	2.0	62.0
42	8.3	0.0	38.5

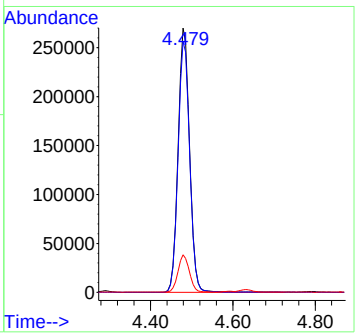


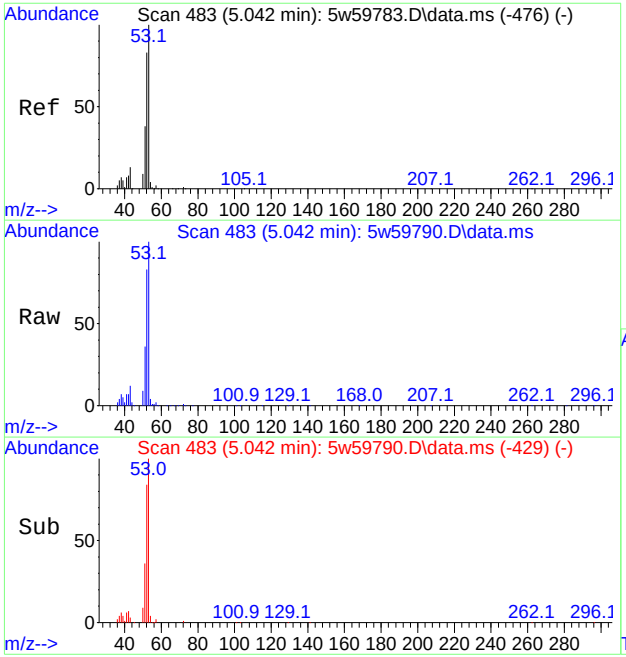


#29
BROMOETHENE
Concen: 10.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 523753

Ion	Ratio	Lower	Upper
106	100		
108	95.9	65.6	125.6
81	14.0	0.0	43.9

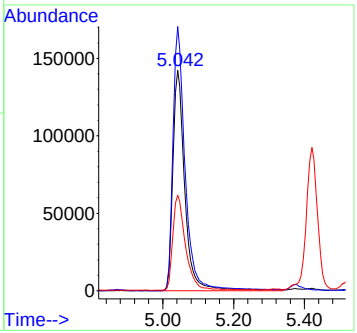


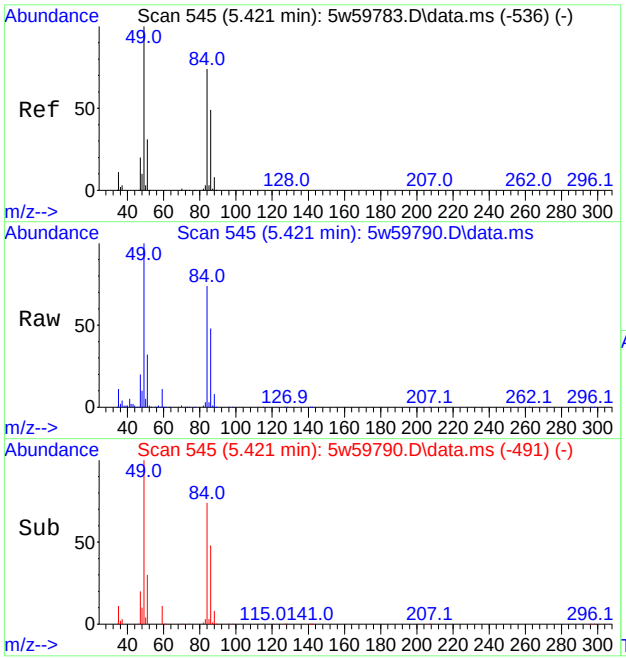


#30
ACRYLONITRILE
Concen: 10.15 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 335497

Ion	Ratio	Lower	Upper
52	100		
53	122.5	85.8	159.4
51	46.4	32.3	60.1

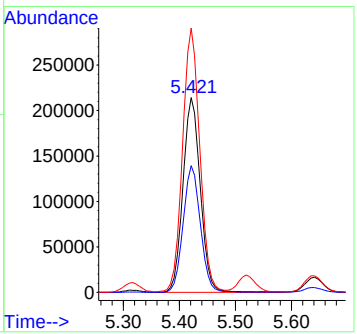


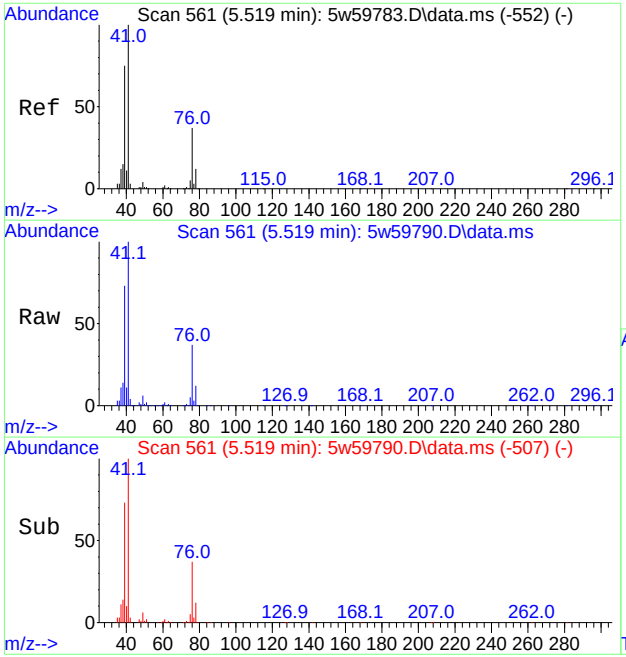


#31
METHYLENE CHLORIDE
Concen: 9.22 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 460743

Ion	Ratio	Lower	Upper
84	100		
86	64.8	35.2	95.2
49	134.8	105.3	165.3

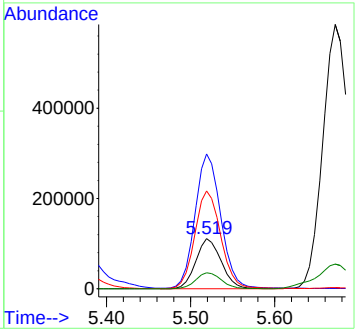


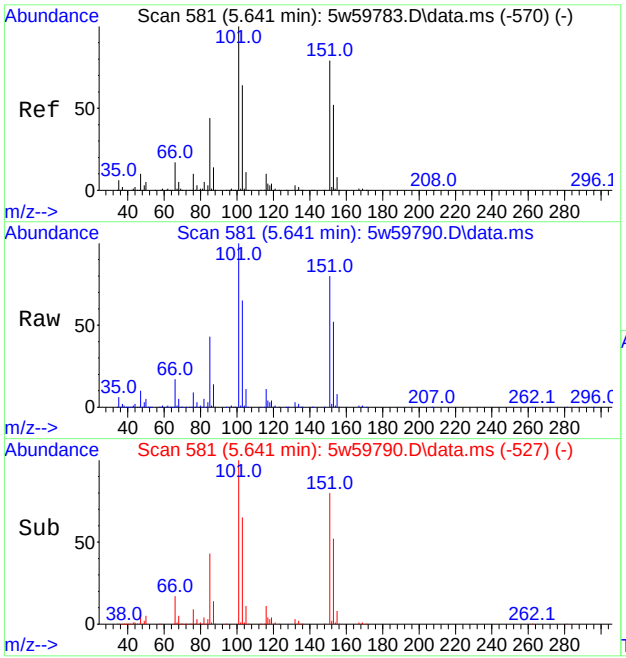


#32
3-CHLOROPROPENE
Concen: 9.77 PPBV
RT: 5.519 min Scan# 561
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 235062

Ion	Ratio	Lower	Upper
76	100		
41	271.7	240.8	300.8
39	197.9	173.6	233.6
78	32.5	2.8	62.8

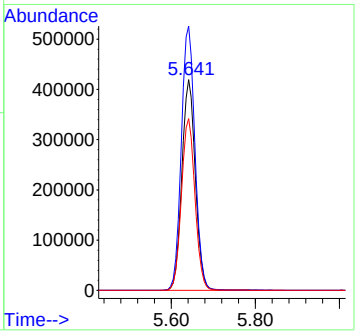


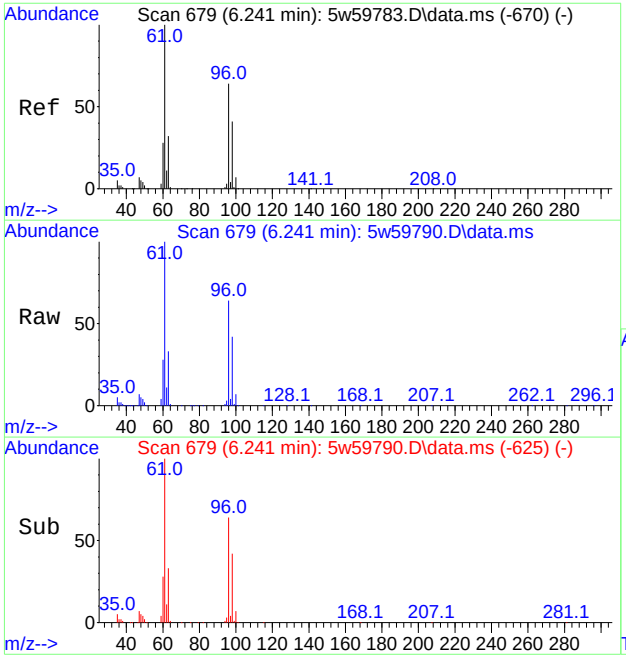


#33
FREON 113
Concen: 10.53 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:151 Resp: 936508

Ion	Ratio	Lower	Upper
151	100		
101	126.4	97.5	157.5
103	82.0	52.5	112.5

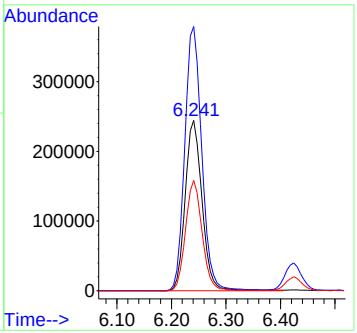


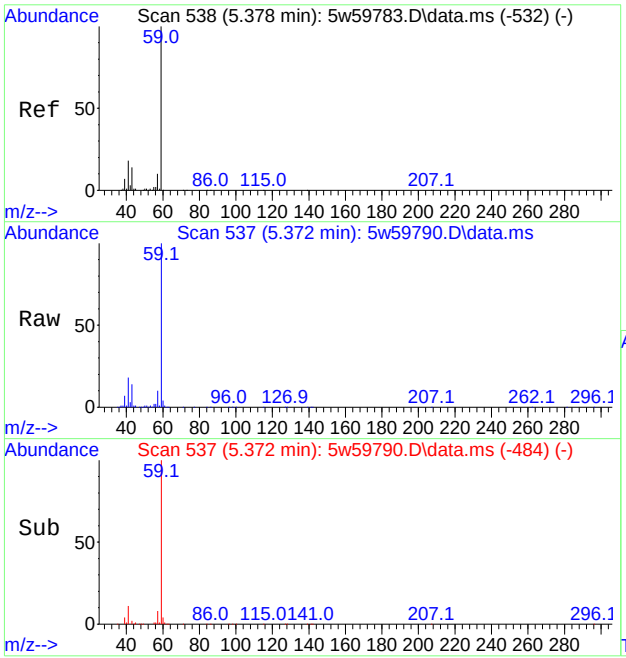


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 9.34 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 523452

Ion	Ratio	Lower	Upper
96	100		
61	156.5	126.4	186.4
98	63.9	34.1	94.1

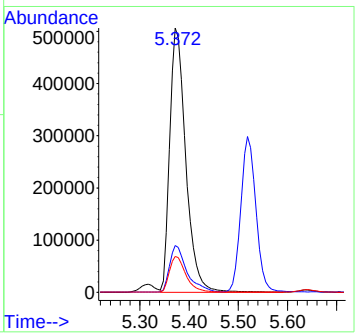


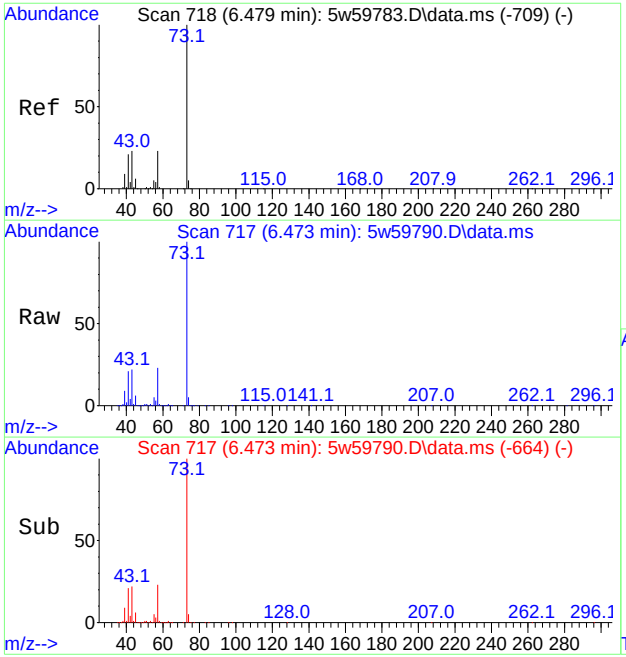


#35
TERTIARY BUTYL ALCOHOL
Concen: 11.52 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 1150749

Ion	Ratio	Lower	Upper
59	100		
41	19.0	0.0	49.3
43	13.9	0.0	44.1

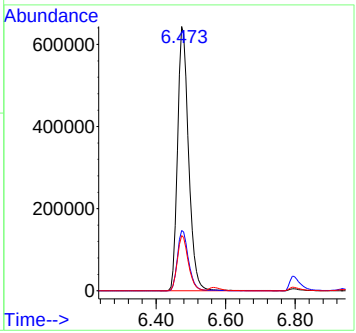


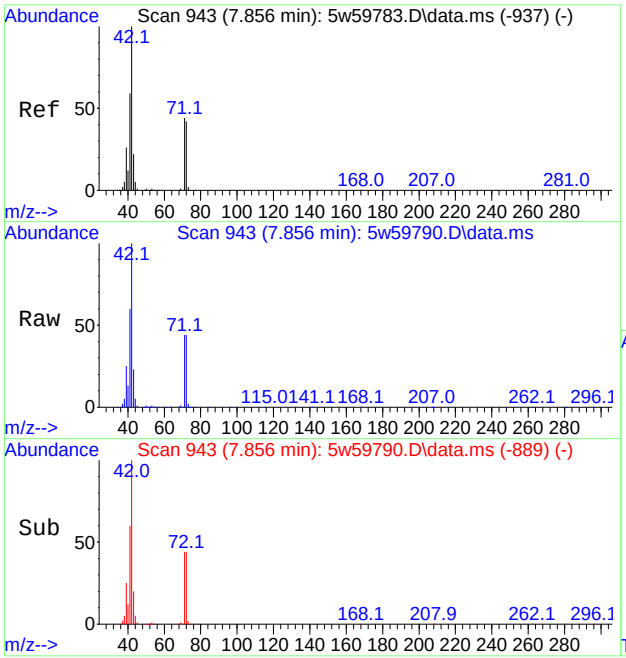


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.10 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 73 Resp: 1424107

Ion	Ratio	Lower	Upper
73	100		
57	23.2	0.0	53.1
41	20.7	0.0	50.6

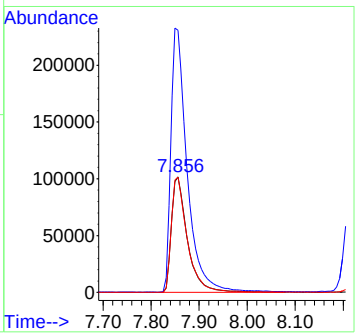


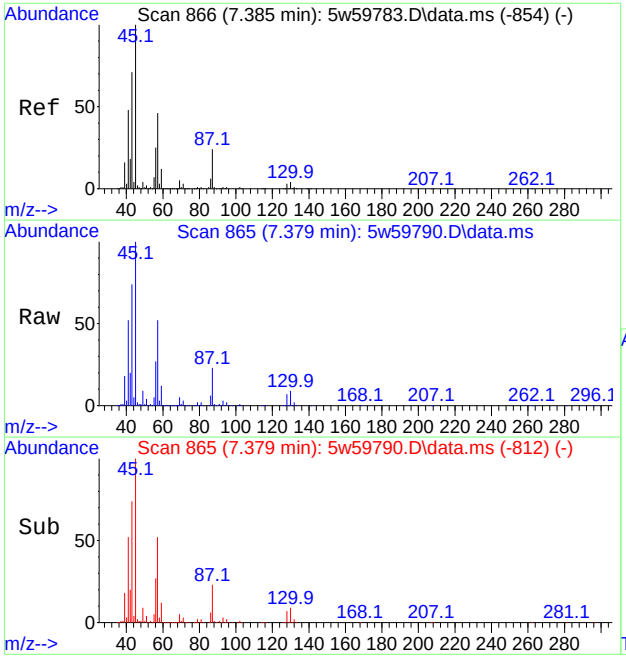


#37
TETRAHYDROFURAN
Concen: 12.20 PPBV
RT: 7.856 min Scan# 943
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 236078

Ion	Ratio	Lower	Upper
72	100		
42	233.9	202.4	262.4
71	99.8	71.1	131.1

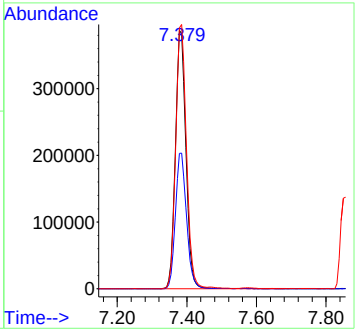


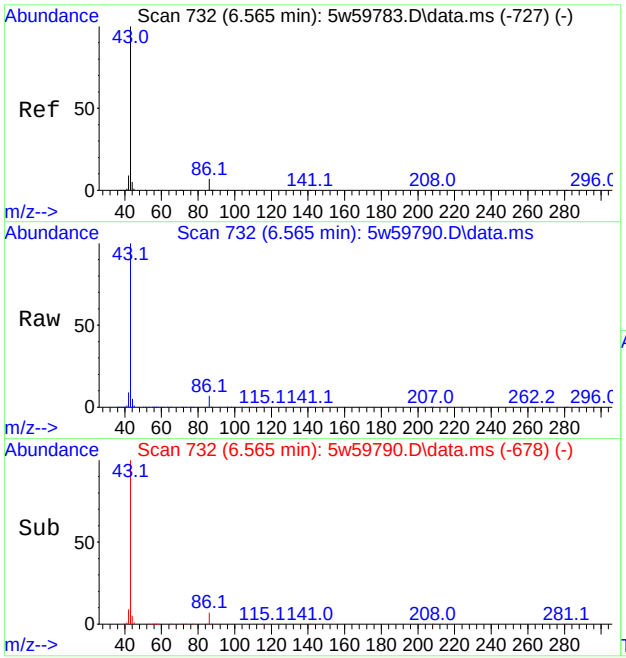


#38
HEXANE
Concen: 10.24 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 814752

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	104.6	74.7	134.7

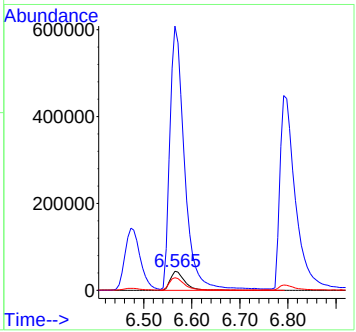


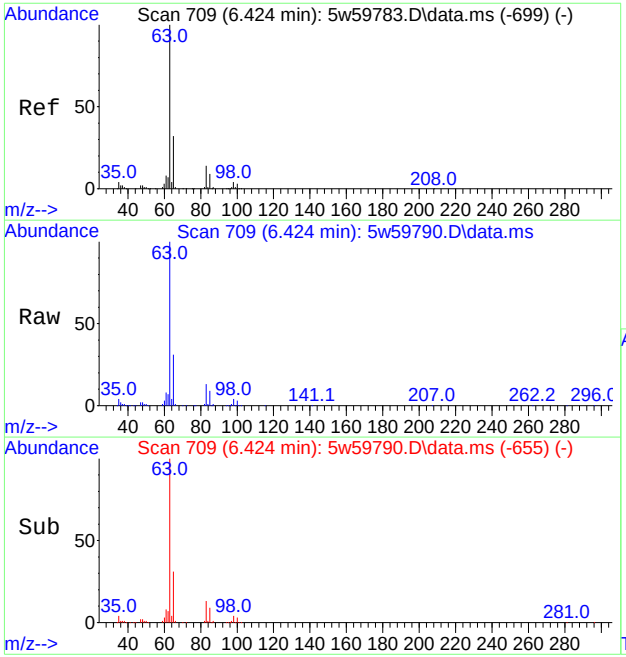


#39
VINYL ACETATE
Concen: 11.55 PPBV
RT: 6.565 min Scan# 732
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 86 Resp: 92915

Ion	Ratio	Lower	Upper
86	100		
43	1372.6	1379.7	1439.7#
44	66.6	36.9	96.9

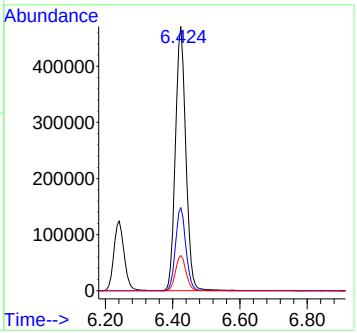


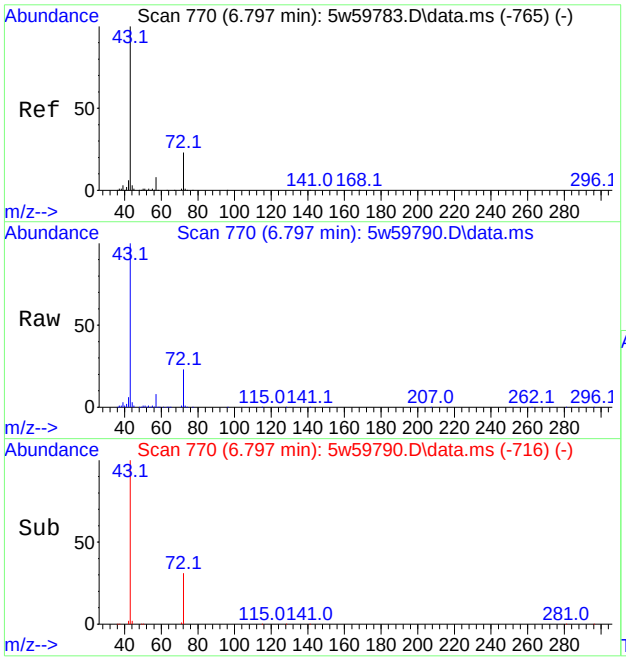


#40
1,1-DICHLOROETHANE
Concen: 9.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 1012856

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.7	61.7
83	13.5	0.0	43.5

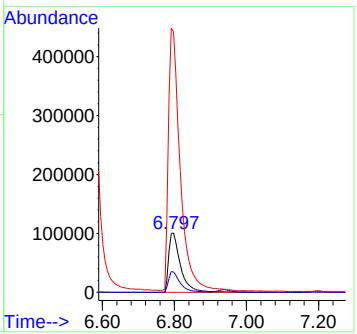


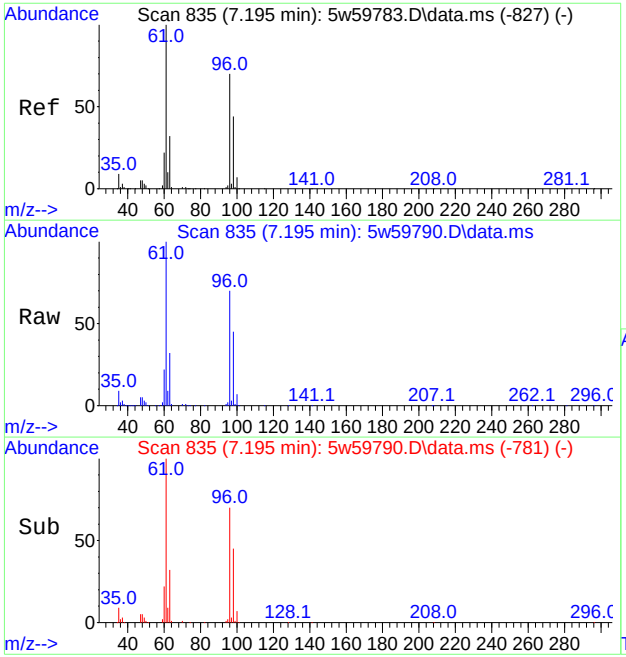


#41
METHYL ETHYL KETONE
Concen: 12.04 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 231727

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	438.5	415.9	475.9

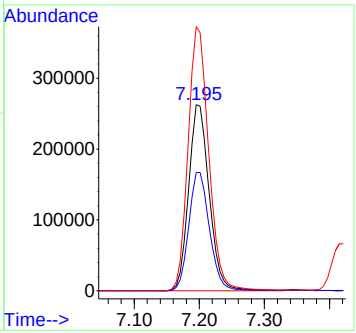


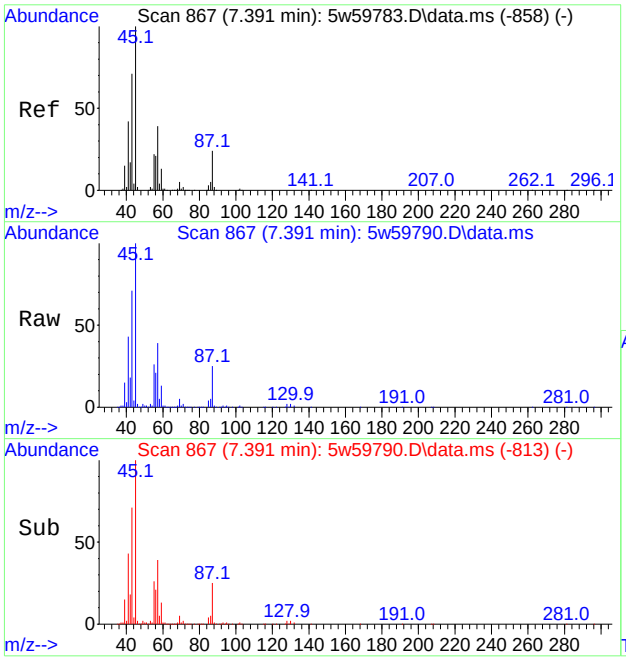


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.43 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 576053

Ion	Ratio	Lower	Upper
96	100		
98	64.4	34.0	94.0
61	142.6	111.5	171.5

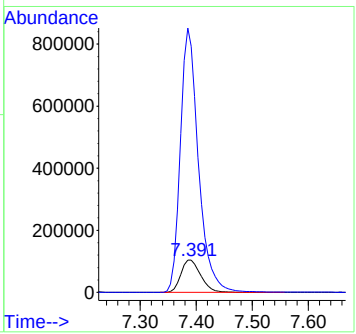


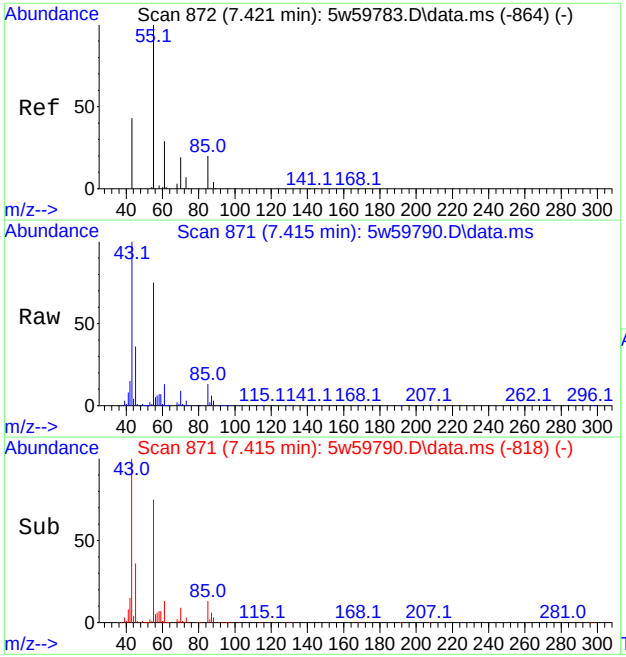


#43
DIISOPROPYL ETHER
Concen: 12.23 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 255743

Ion	Ratio	Lower	Upper
59	100		
45	748.7	720.9	780.9

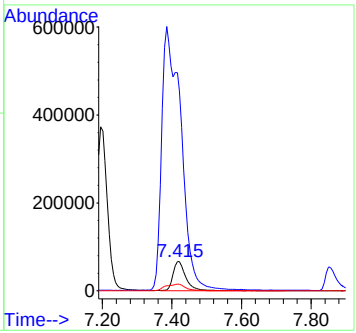


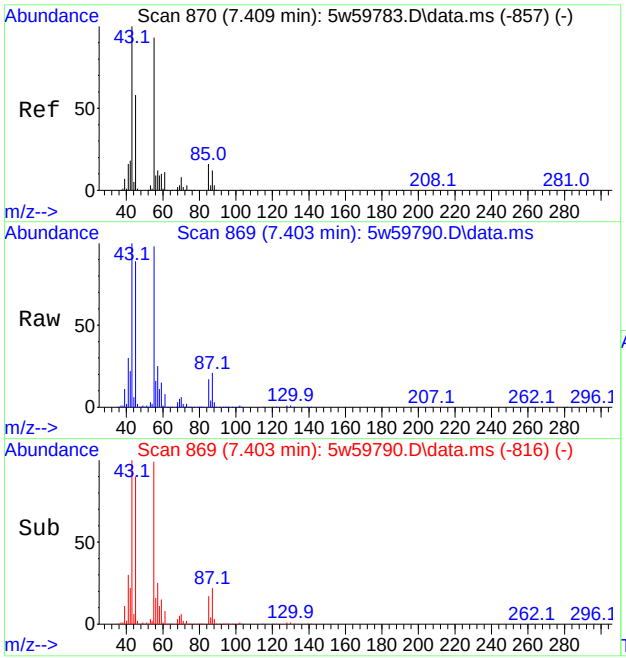


#44
ETHYL ACETATE
Concen: 11.56 PPBV
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 61 Resp: 170036

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	35.7	4.5	64.5

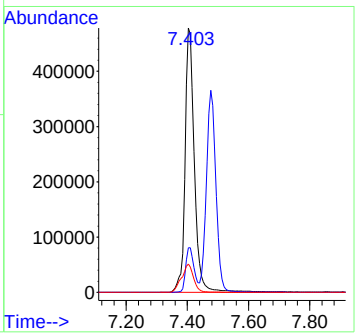


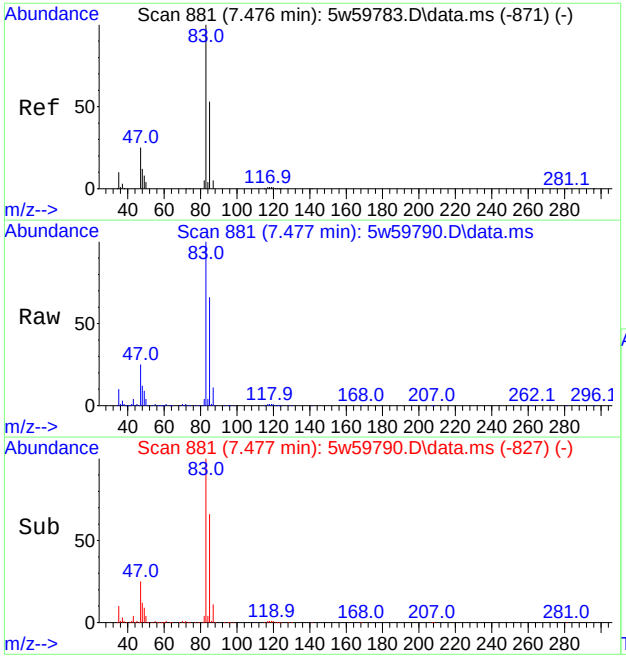


#45
METHYL ACRYLATE
Concen: 12.95 PPBV
RT: 7.403 min Scan# 869
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1019941

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.7	9.4	17.6

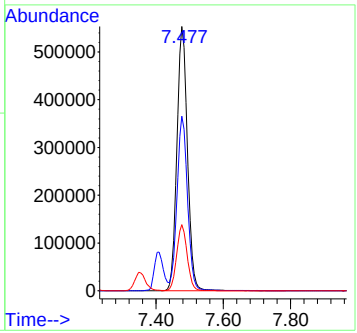


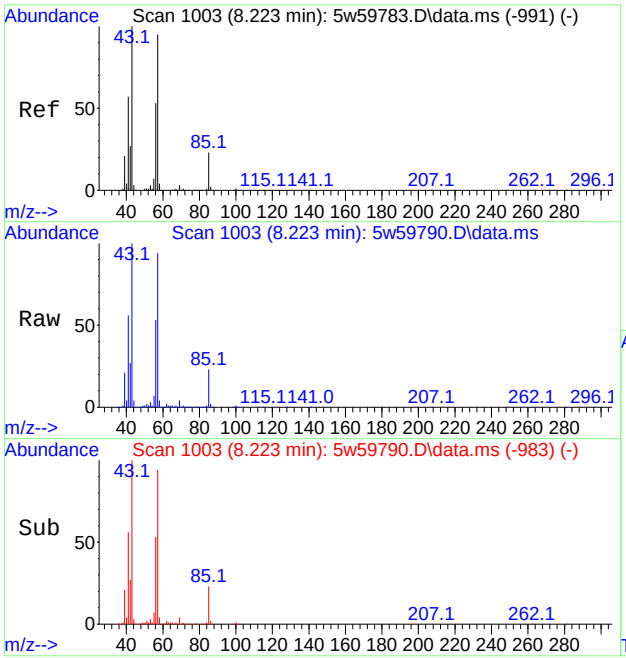


#46
CHLOROFORM
Concen: 10.89 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1206541

Ion	Ratio	Lower	Upper
83	100		
85	65.8	35.6	95.6
47	24.9	0.0	55.2

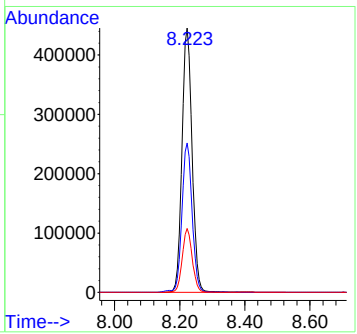


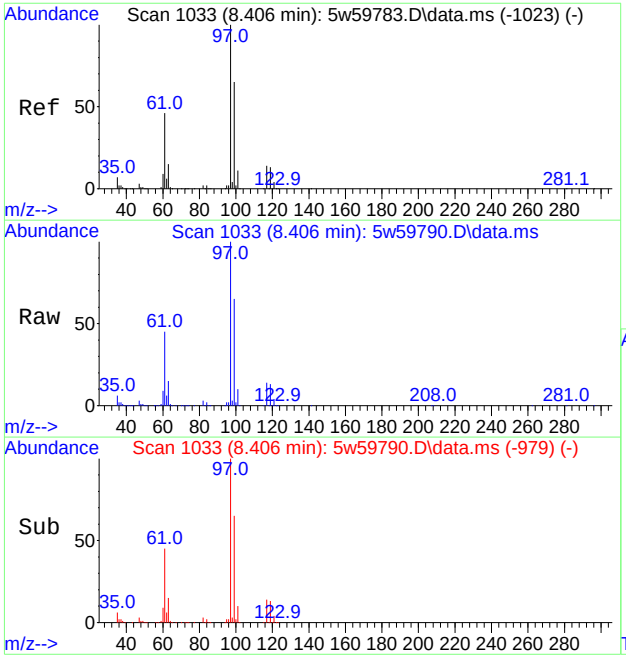


#47
2,4-DIMETHYLPENTANE
Concen: 10.74 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 967097

Ion	Ratio	Lower	Upper
57	100		
56	57.2	26.5	86.5
85	23.9	0.0	53.8

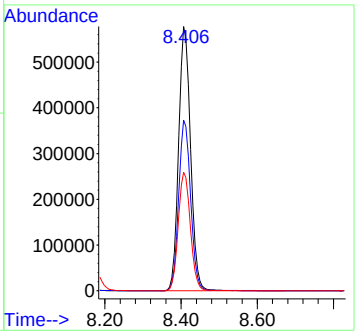


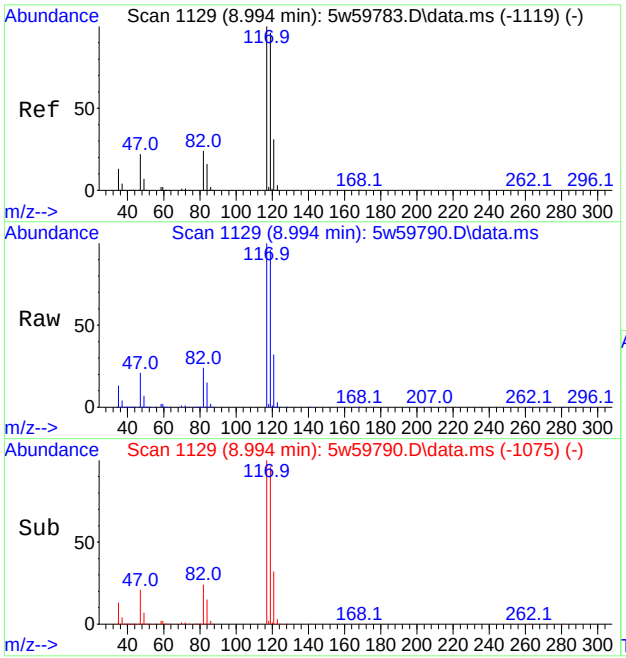


#48
1,1,1-TRICHLOROETHANE
Concen: 10.90 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 97 Resp: 1259183

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.8	94.8
61	45.8	15.8	75.8

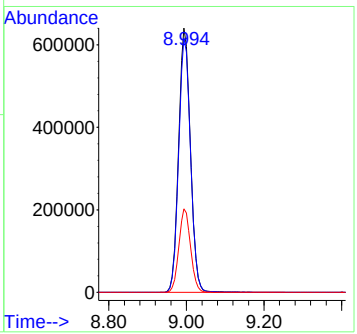


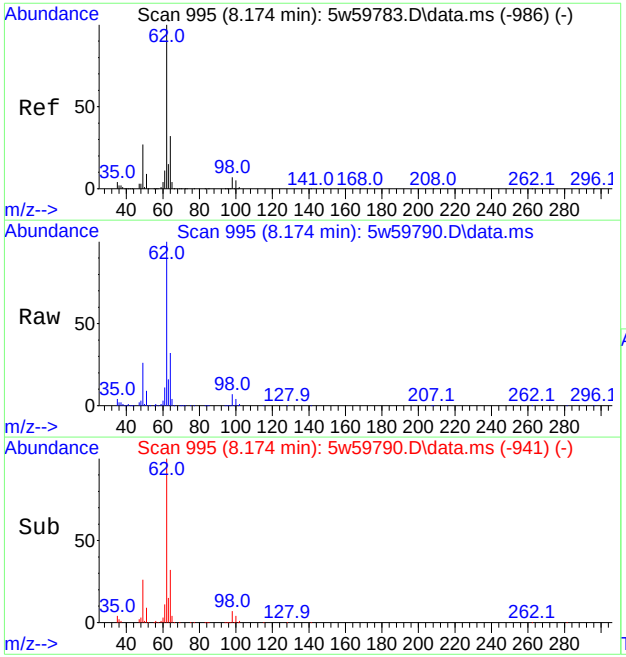


#49
CARBON TETRACHLORIDE
Concen: 10.85 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1361951

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.3	1.3	61.3

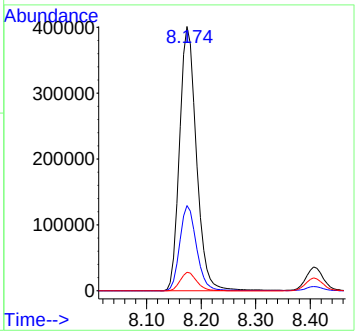


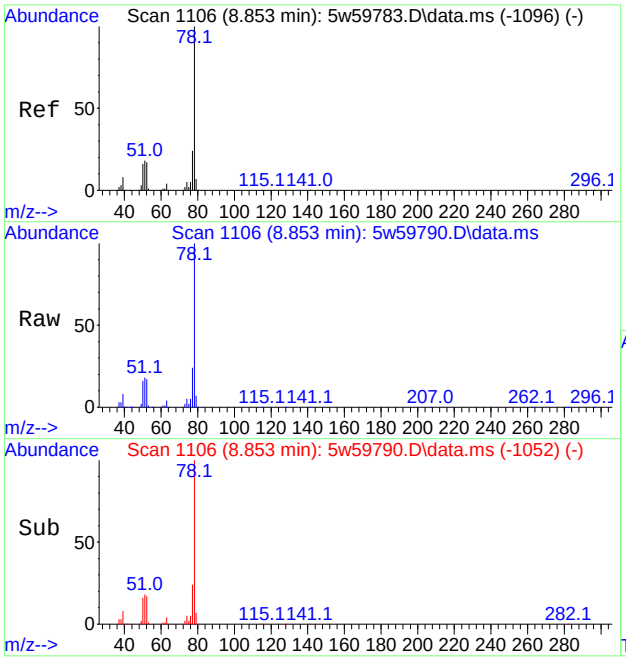


#50
1,2-DICHLOROETHANE
Concen: 11.15 PPBV
RT: 8.174 min Scan# 995
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 857881

Ion	Ratio	Lower	Upper
62	100		
64	32.2	2.3	62.3
98	6.9	0.0	36.9

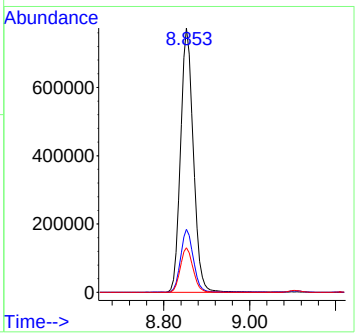


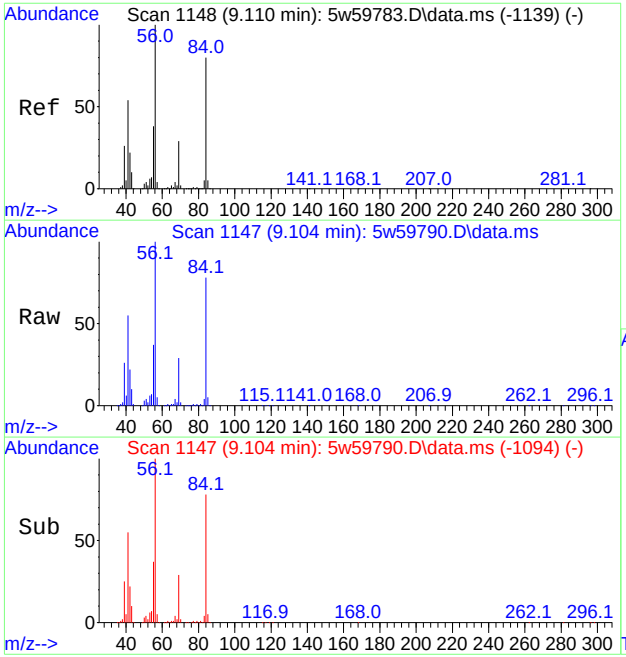


#52
BENZENE
Concen: 11.05 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 78 Resp: 1601042

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

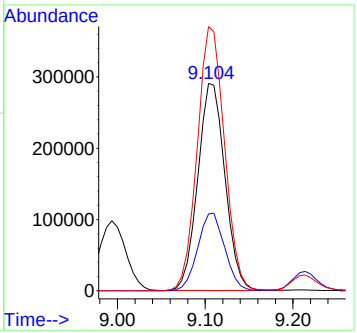


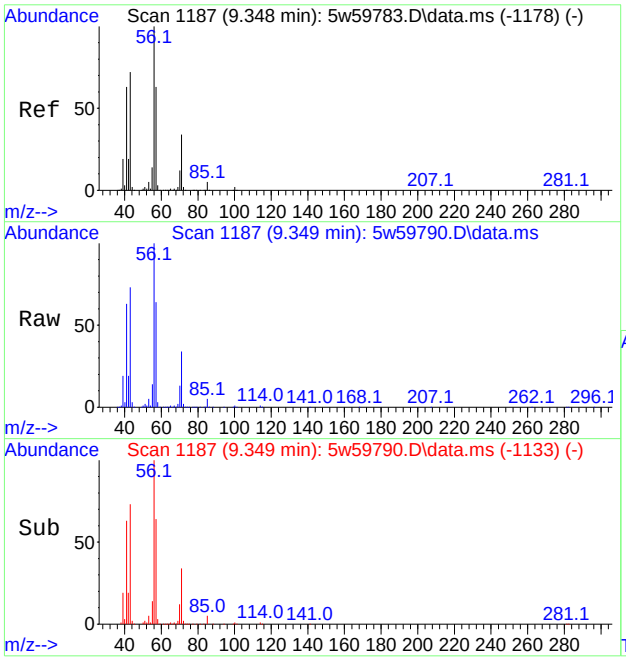


#53
CYCLOHEXANE
Concen: 10.78 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 624324

Ion	Ratio	Lower	Upper
84	100		
69	37.5	6.9	66.9
56	128.3	98.2	158.2

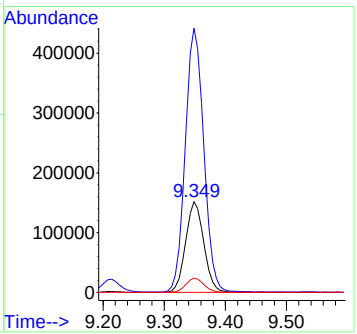


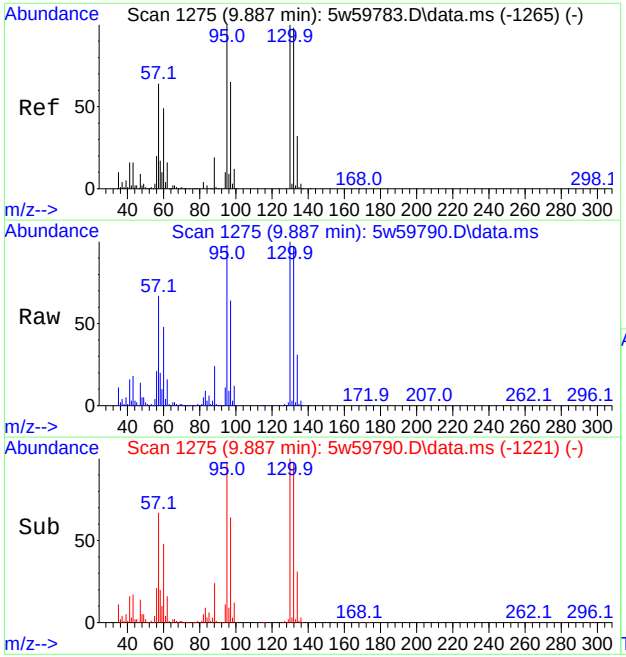


#54
2,3-DIMETHYLPENTANE
Concen: 10.75 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 71 Resp: 314676

Ion	Ratio	Lower	Upper
71	100		
56	298.0	264.6	324.6
85	15.5	0.0	45.3

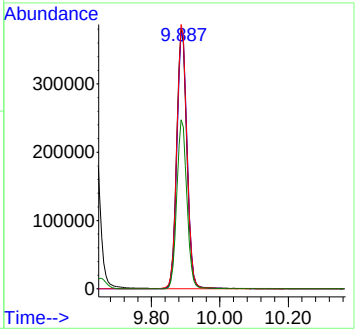


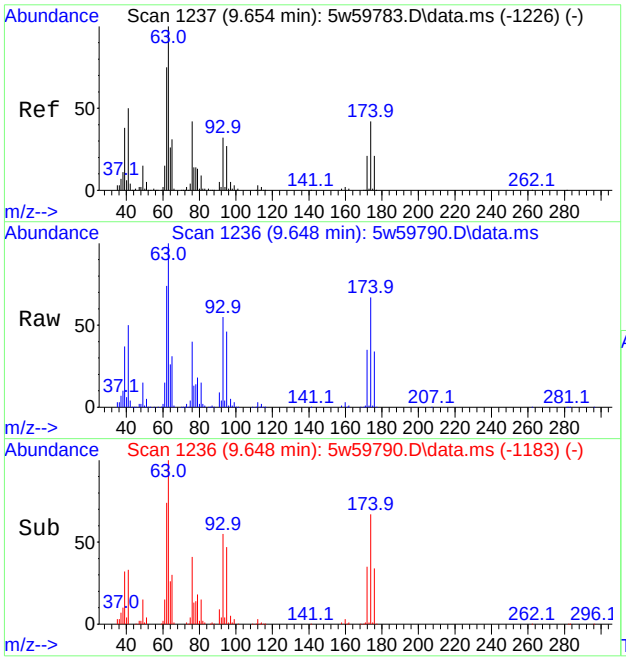


#55
TRICHLOROETHYLENE
Concen: 10.60 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 95 Resp: 782511

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.7	70.6	130.6
97	65.0	34.6	94.6

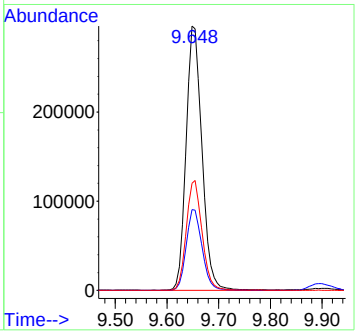


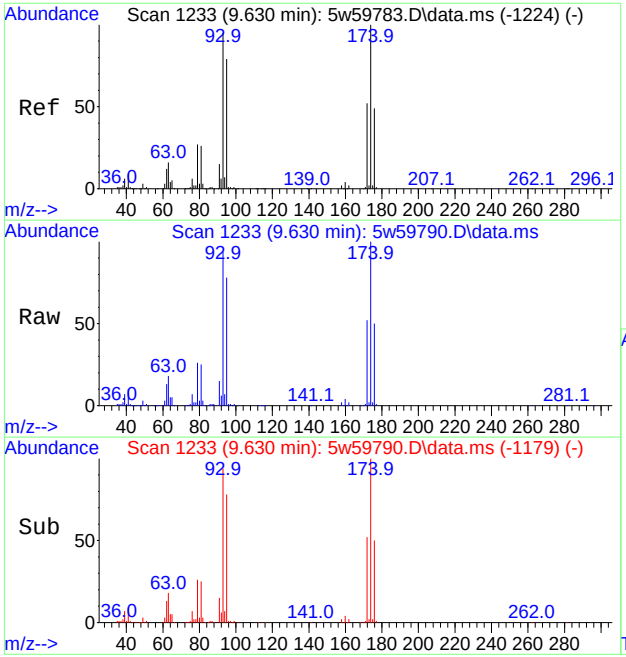


#56
1,2-DICHLOROPROPANE
Concen: 9.43 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 634380

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.1	11.5	71.5

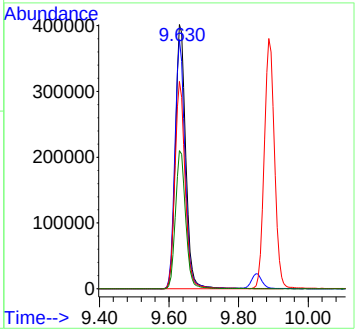


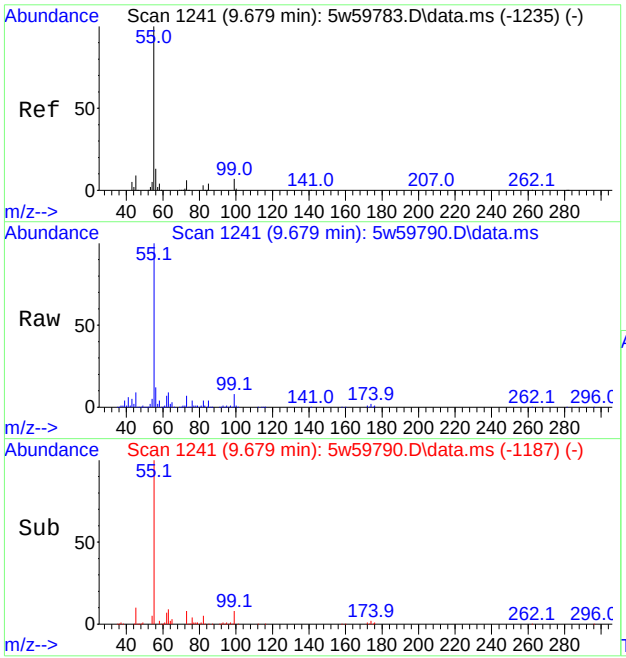


#57
DIBROMOMETHANE
Concen: 10.02 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:174 Resp: 826704

Ion	Ratio	Lower	Upper
174	100		
93	93.2	65.0	120.6
95	78.3	54.5	101.1
172	52.1	36.3	67.5

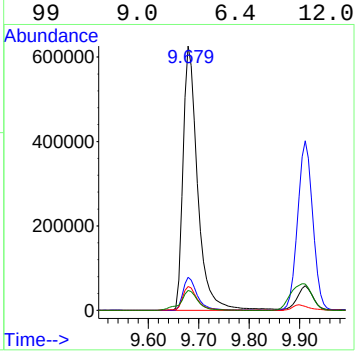


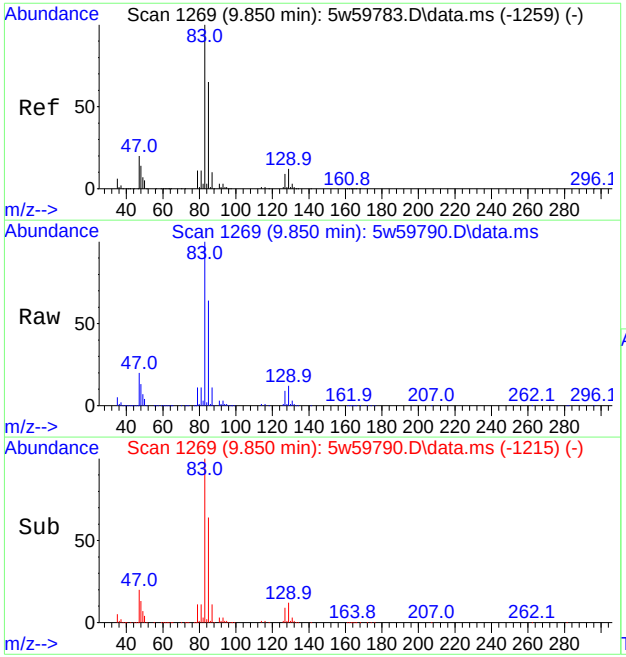


#58
ETHYL ACRYLATE
Concen: 11.98 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1259813

Ion	Ratio	Lower	Upper
55	100		
56	12.4	8.6	16.0
45	9.4	6.6	12.2
99	9.0	6.4	12.0

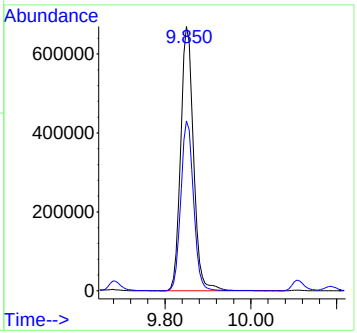


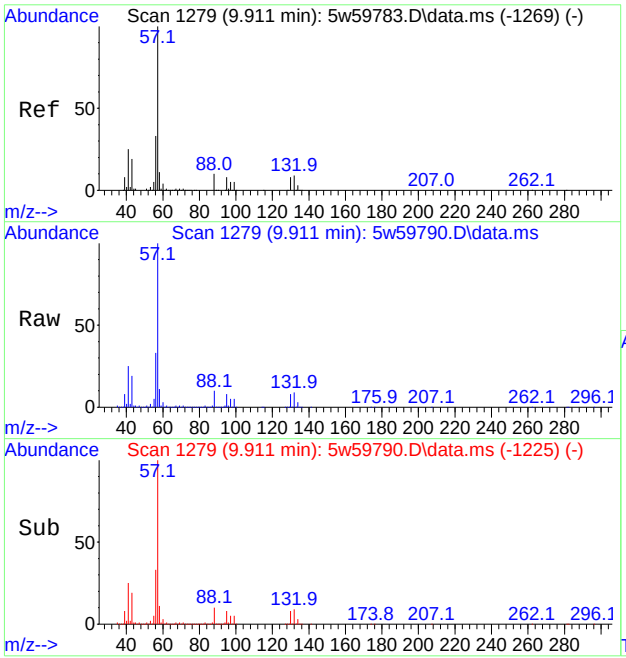


#59
BROMODICHLOROMETHANE
Concen: 10.86 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1390089

Ion	Ratio	Lower	Upper
83	100		
85	63.5	33.4	93.4

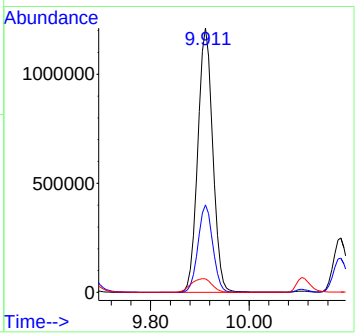


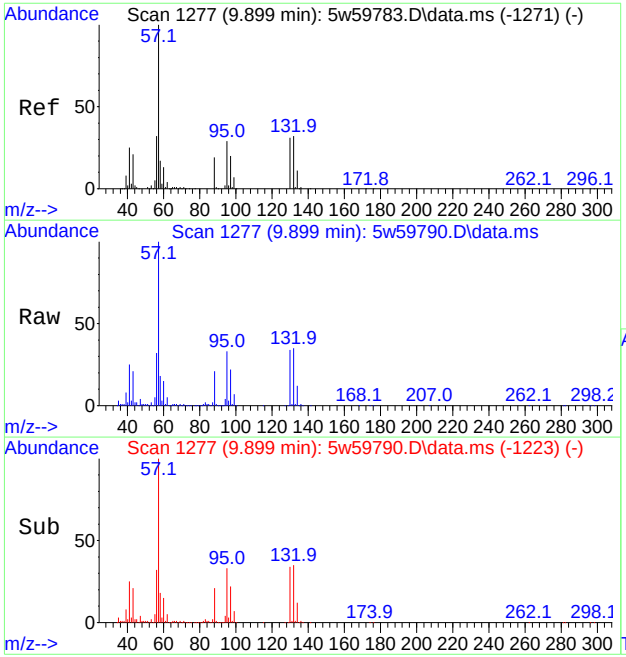


#60
2,2,4-TRIMETHYLPENTANE
Concen: 11.14 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 2555629

Ion	Ratio	Lower	Upper
57	100		
56	32.6	2.5	62.5
99	7.3	0.0	37.3

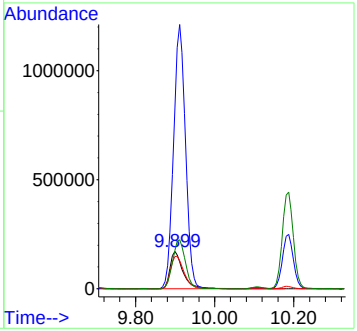


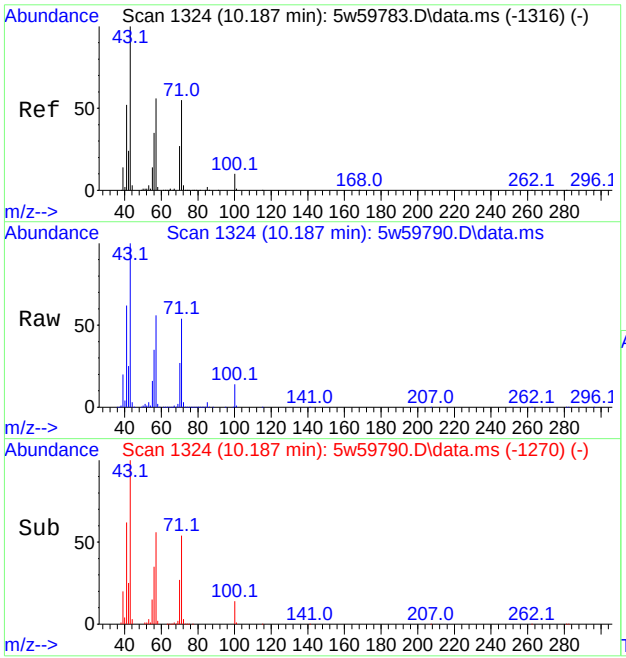


#61
1,4-DIOXANE
Concen: 11.81 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 88 Resp: 390530

Ion	Ratio	Lower	Upper
88	100		
57	486.3	494.2	554.2#
58	86.9	58.9	118.9
43	103.0	78.3	138.3

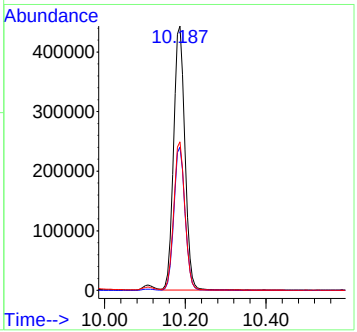


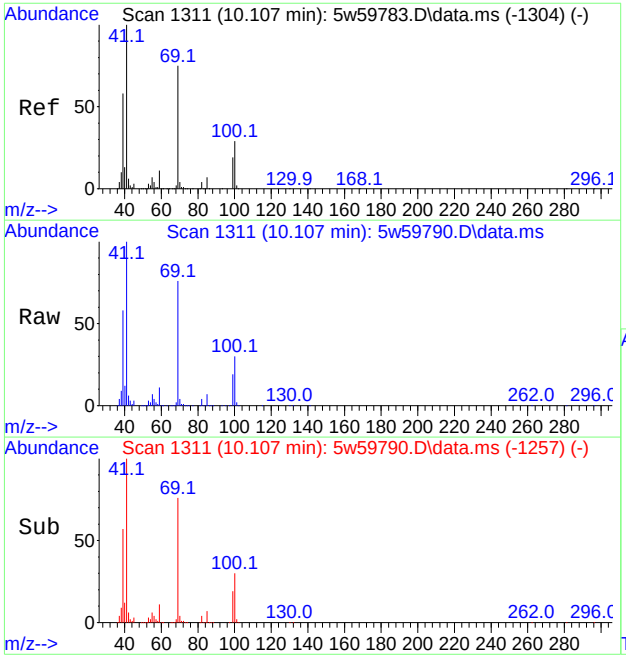


#62
HEPTANE
Concen: 10.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 861635

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.1	26.2	86.2

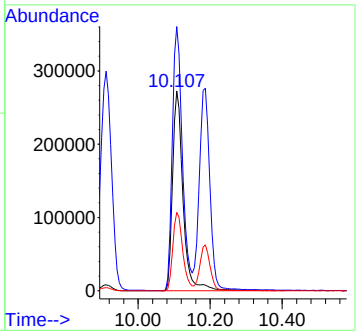


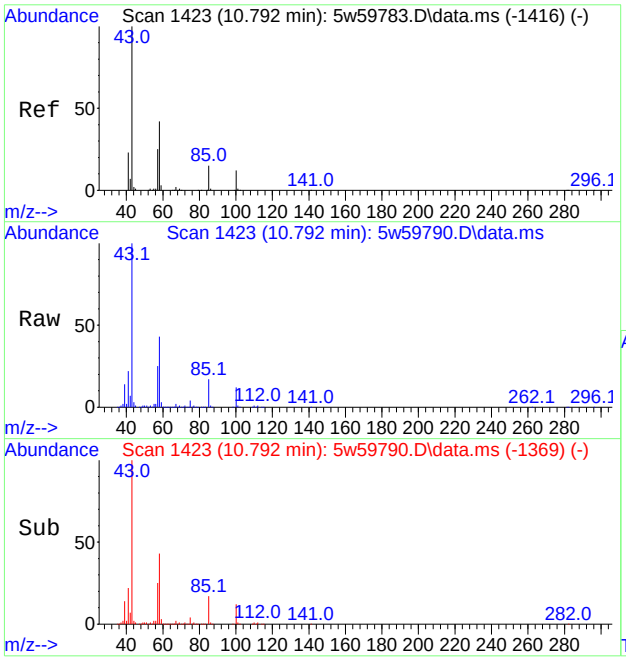


#63
METHYL METHACRYLATE
Concen: 11.70 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 552495

Ion	Ratio	Lower	Upper
69	100		
41	125.2	95.3	155.3
100	36.8	6.3	66.3

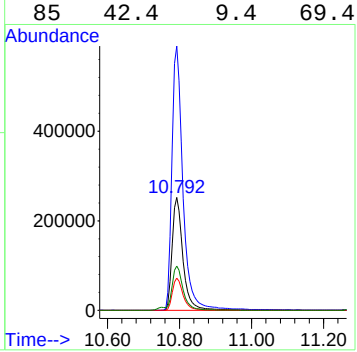


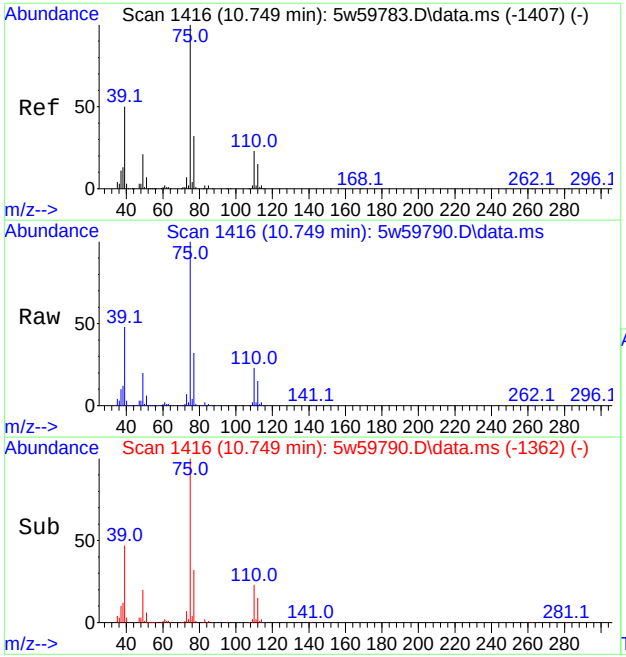


#64
METHYL ISOBUTYL KETONE
Concen: 12.46 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 532725

Ion	Ratio	Lower	Upper
58	100		
43	237.9	209.2	269.2
100	28.7	0.0	58.8
85	42.4	9.4	69.4

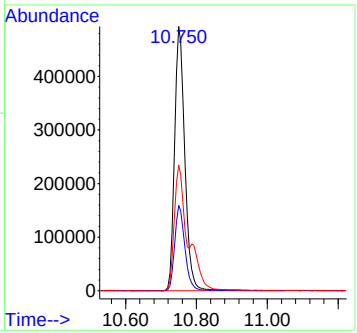


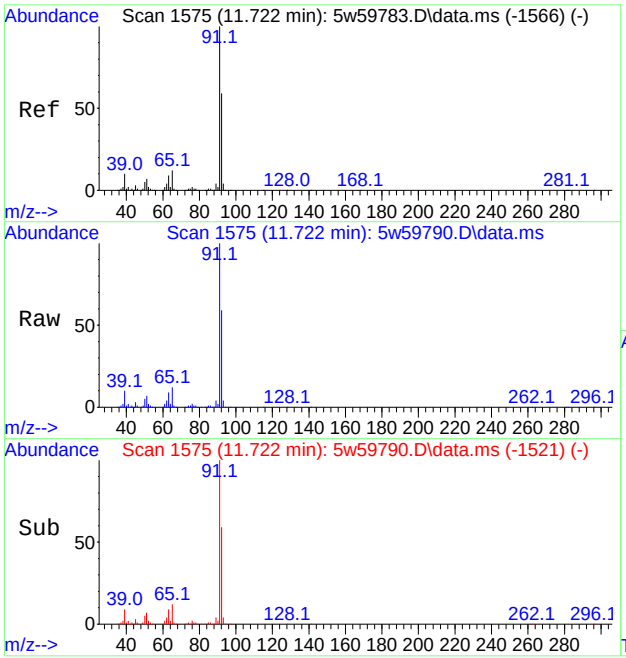


#65
cis-1,3-DICHLOROPROPENE
Concen: 9.61 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 990327

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.0	34.3	94.3

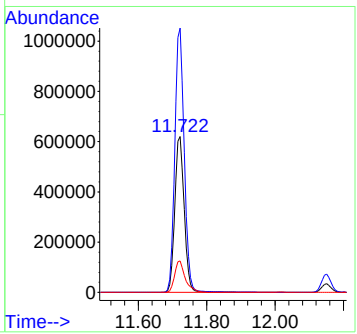


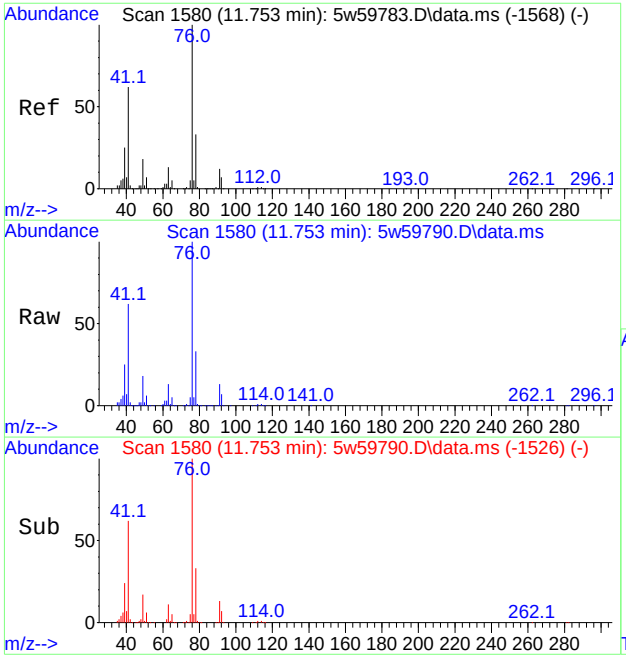


#66
TOLUENE
Concen: 11.05 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 92 Resp: 1196655

Ion	Ratio	Lower	Upper
92	100		
91	169.3	140.1	200.1
65	22.9	0.0	53.1

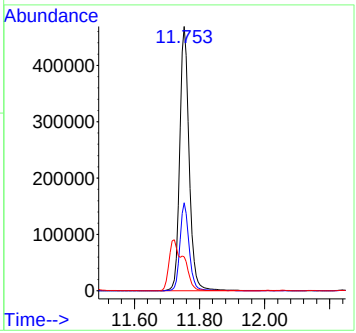


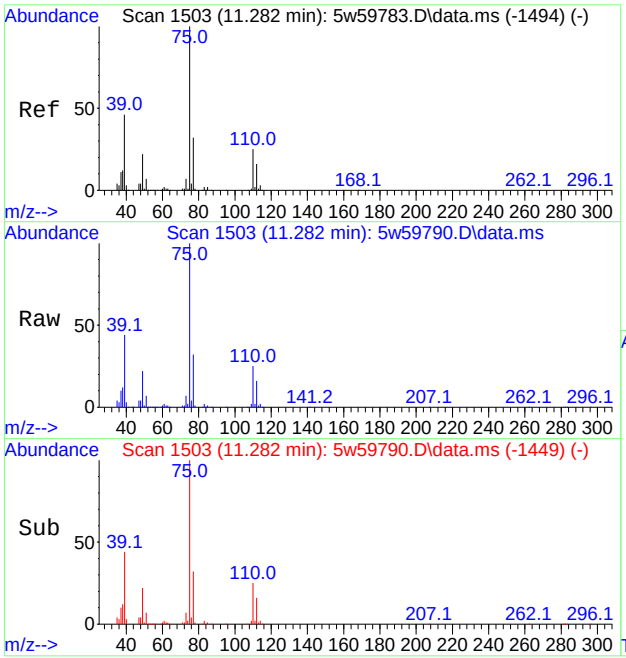


#67
1,3-DICHLOROPROPANE
Concen: 10.77 PPBV
RT: 11.753 min Scan# 1580
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 950675

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	0.0	7.1	13.1#

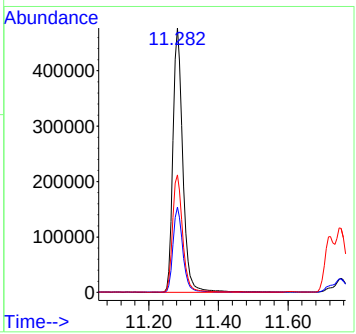


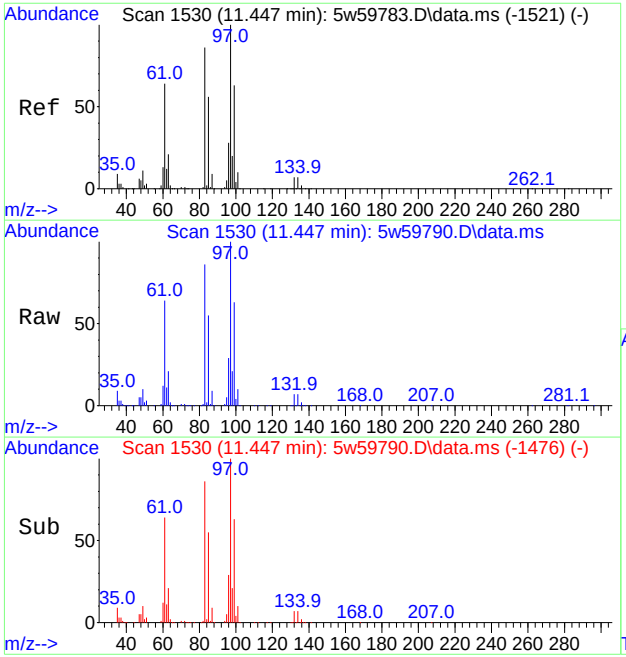


#68
trans-1,3-DICHLOROPROPENE
Concen: 9.66 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 940495

Ion	Ratio	Lower	Upper
75	100		
77	32.2	1.6	61.6
39	45.6	16.1	76.1

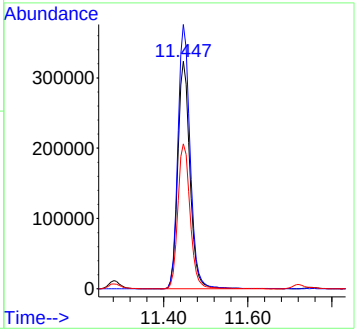


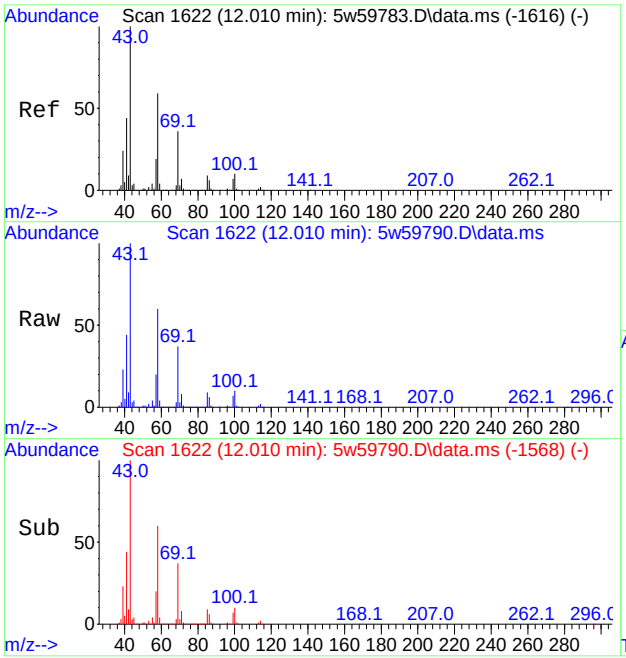


#69
1,1,2-TRICHLOROETHANE
Concen: 10.99 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 646298

Ion	Ratio	Lower	Upper
83	100		
97	116.7	86.3	146.3
85	64.9	35.3	95.3

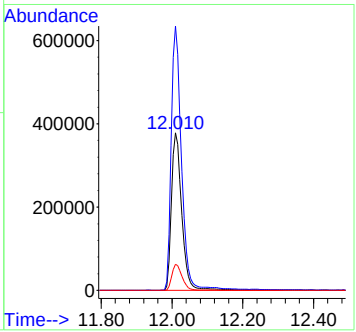


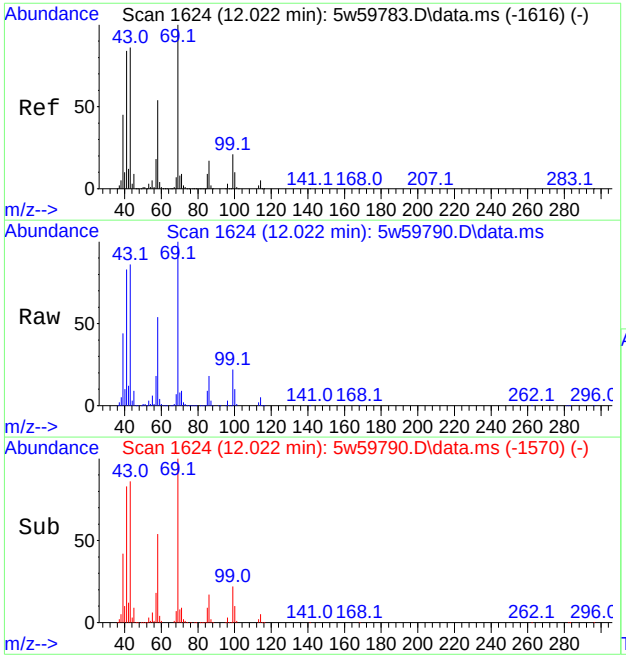


#71
2-HEXANONE
Concen: 12.62 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 770539

Ion	Ratio	Lower	Upper
58	100		
43	166.2	137.2	197.2
100	16.7	0.0	46.9

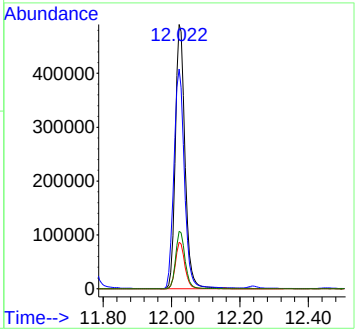


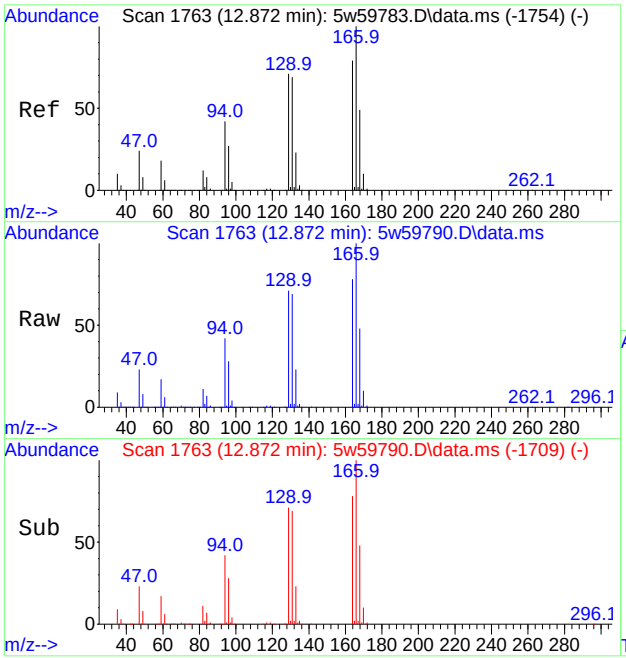


#72
ETHYL METHACRYLATE
Concen: 11.99 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 966723

Ion	Ratio	Lower	Upper
69	100		
41	90.6	64.0	119.0
86	17.3	12.0	22.4
99	21.4	15.0	27.8

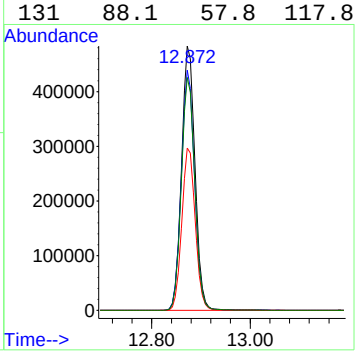


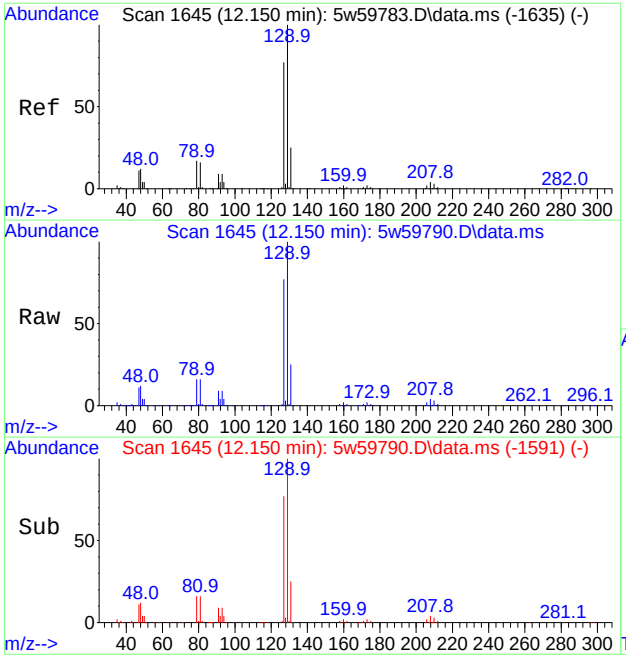


#73
TETRACHLOROETHYLENE
Concen: 11.49 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:164 Resp: 915172

Ion	Ratio	Lower	Upper
164	100		
129	90.3	59.7	119.7
168	62.0	32.2	92.2
131	88.1	57.8	117.8

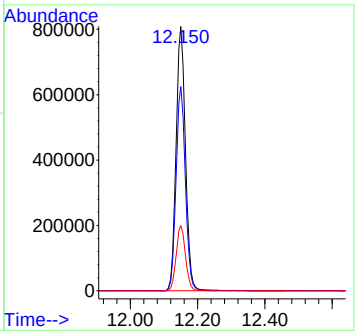


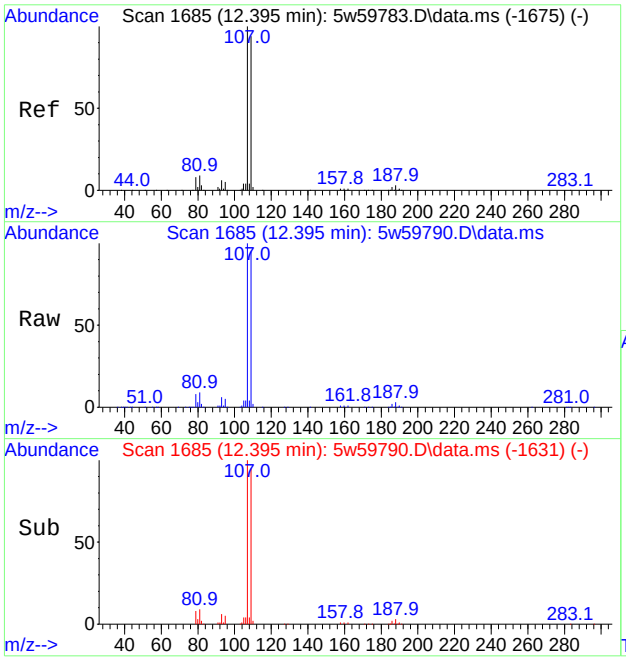


#74
DIBROMOCHLOROMETHANE
Concen: 11.39 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:129 Resp: 1566467

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.7	0.0	54.5

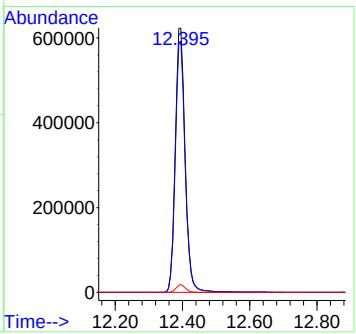


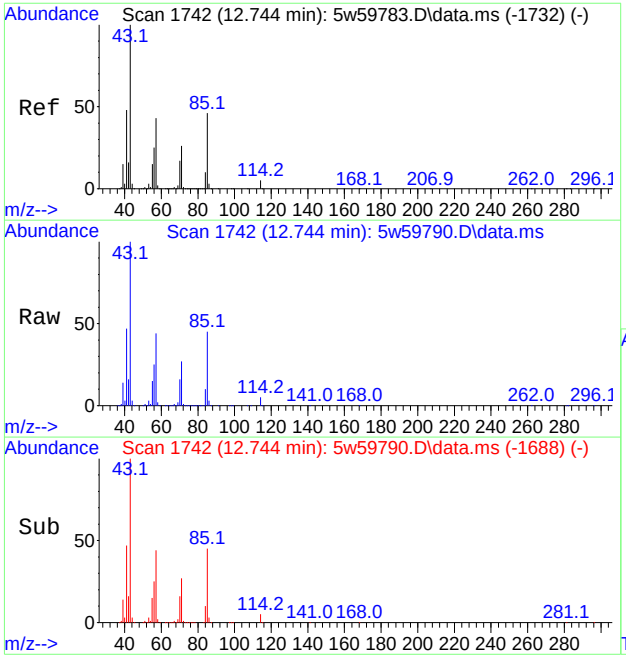


#75
1,2-DIBROMOETHANE
Concen: 11.89 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:107 Resp: 1272221

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	2.8	0.0	32.8

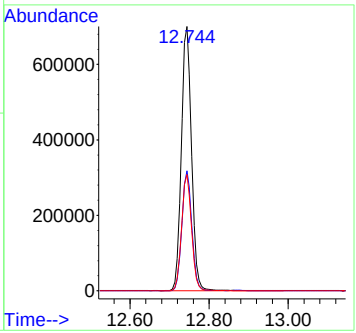


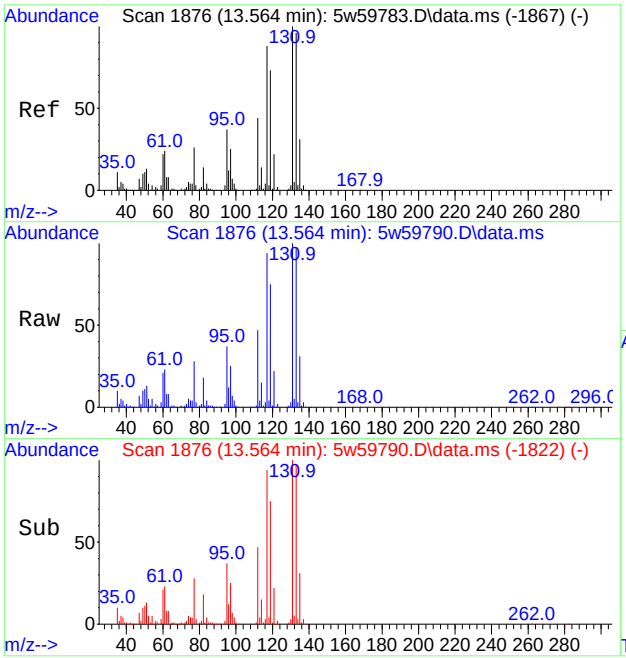


#76
OCTANE
Concen: 11.27 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1249572

Ion	Ratio	Lower	Upper
43	100		
85	44.7	14.6	74.6
57	43.4	13.7	73.7

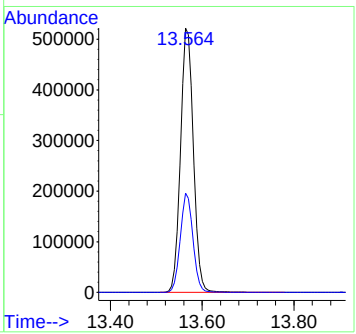


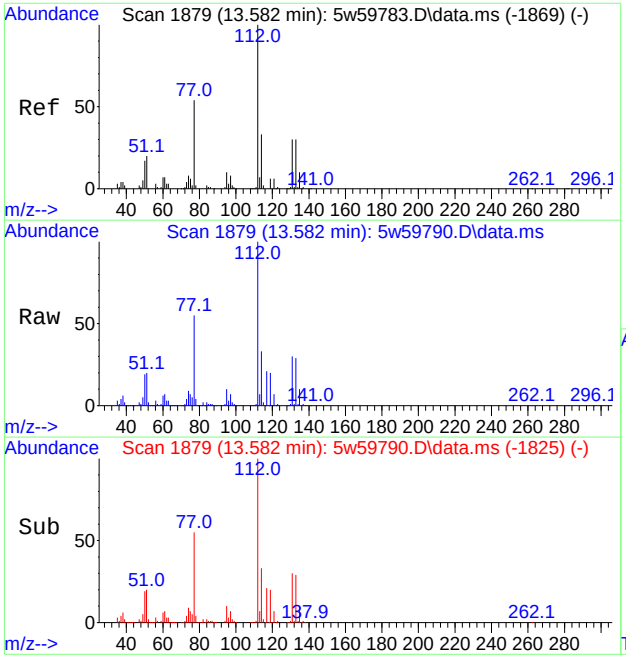


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 11.62 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:131 Resp: 1017442

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

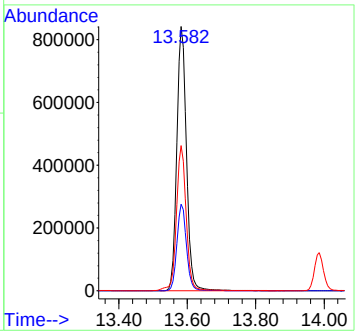


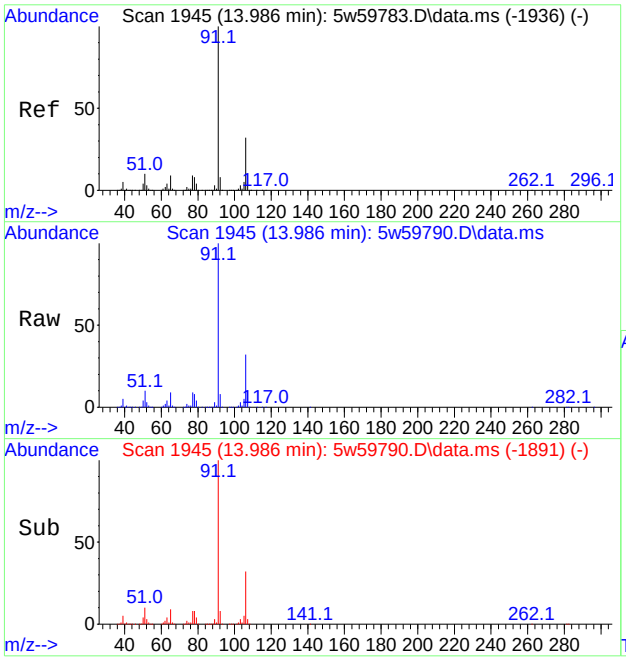


#78
CHLOROBENZENE
Concen: 11.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:112 Resp: 1647850

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.5	25.4	85.4

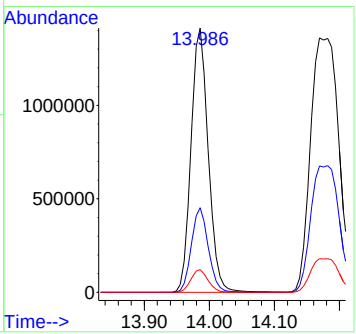


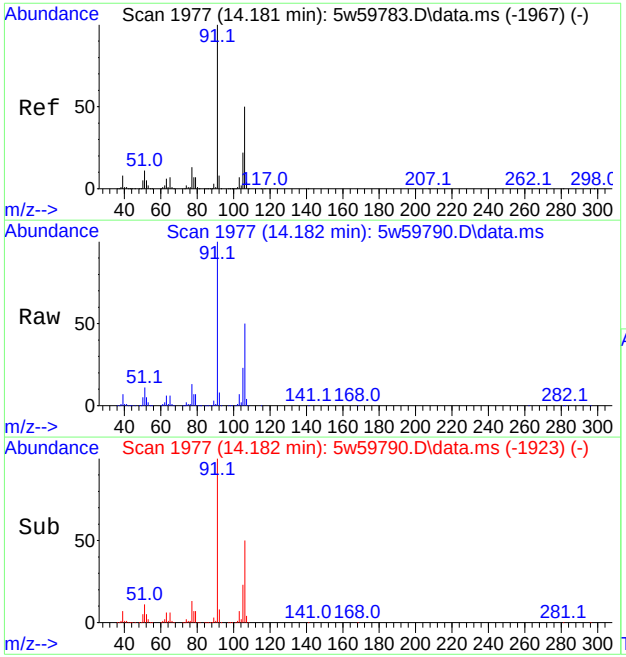


#79
ETHYLBENZENE
Concen: 11.61 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2597260

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.3	61.3
77	8.6	0.0	38.6

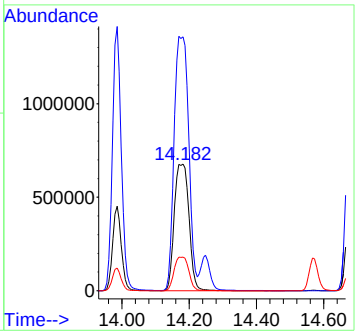


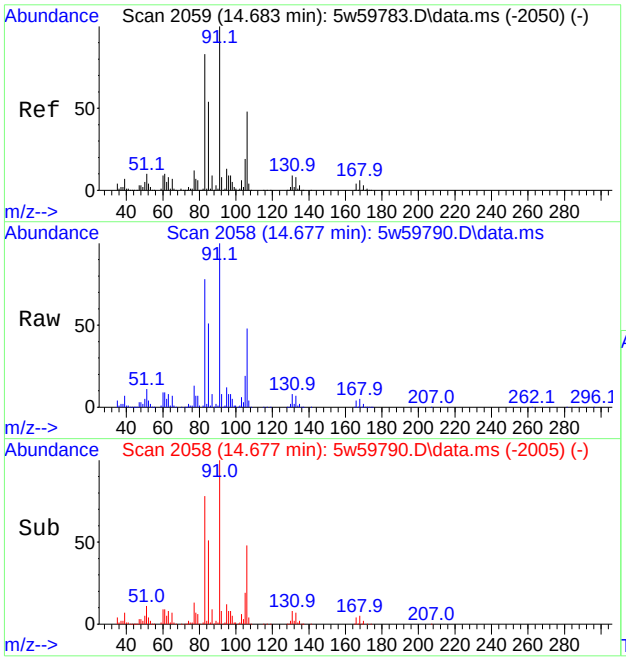


#80
m,p-XYLENE
Concen: 23.24 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 2050019

Ion	Ratio	Lower	Upper
106	100		
91	200.2	171.0	231.0
77	26.6	0.0	56.7

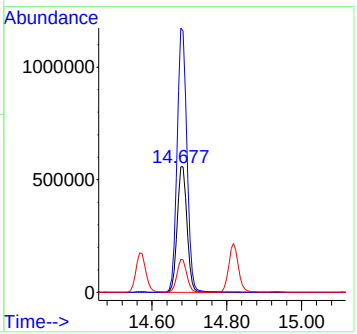


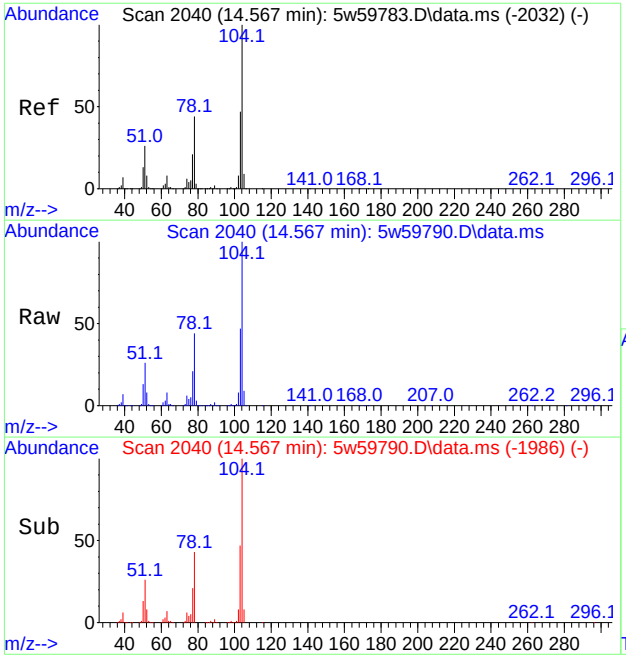


#81
o-XYLENE
Concen: 12.30 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 1016013

Ion	Ratio	Lower	Upper
106	100		
91	209.6	181.6	241.6
77	26.2	0.0	56.6

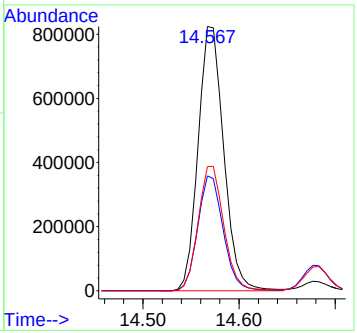


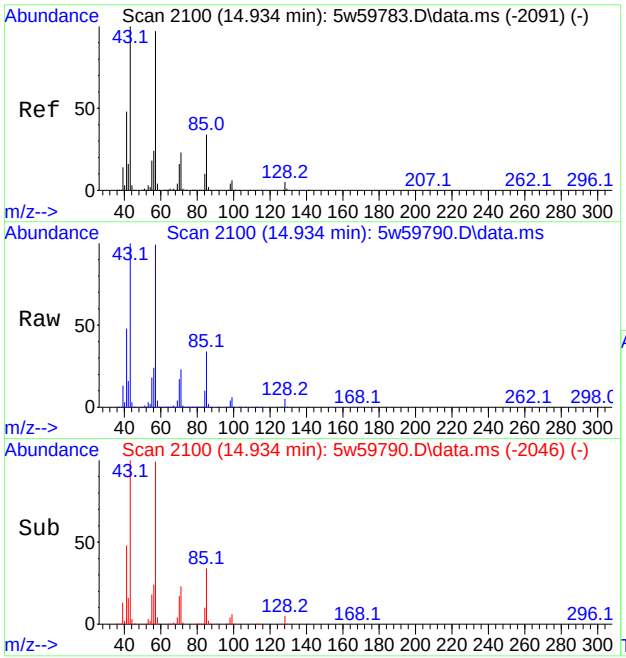


#82
STYRENE
Concen: 11.88 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:104 Resp: 1531560

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.1	17.2	77.2

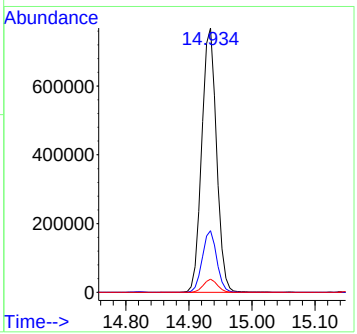


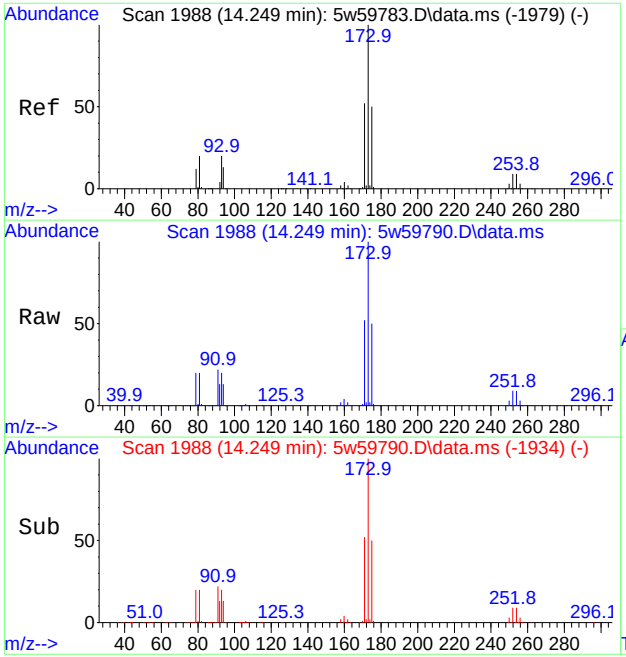


#83
NONANE
Concen: 11.11 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1246325

Ion	Ratio	Lower	Upper
43	100		
71	22.9	0.0	52.7
128	4.8	0.0	34.7

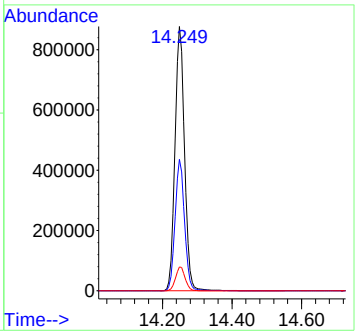


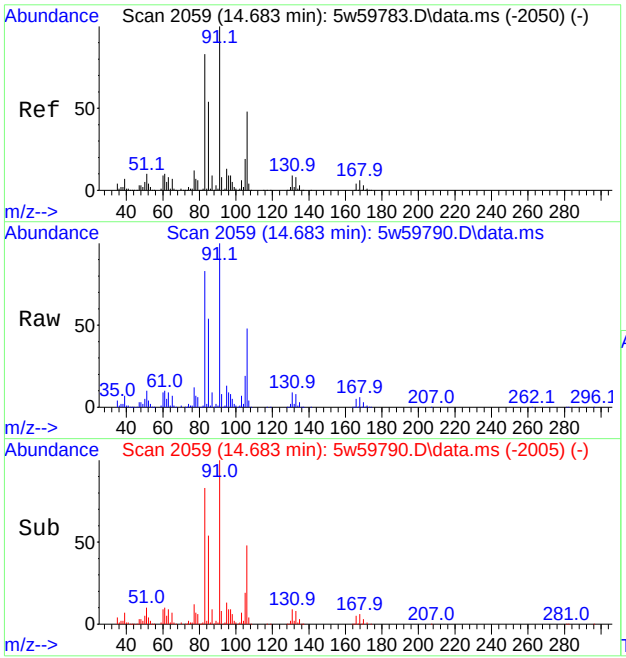


#84
BROMOFORM
Concen: 12.32 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:173 Resp: 1671641

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	9.0	0.0	39.0

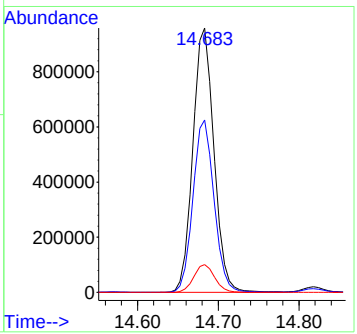


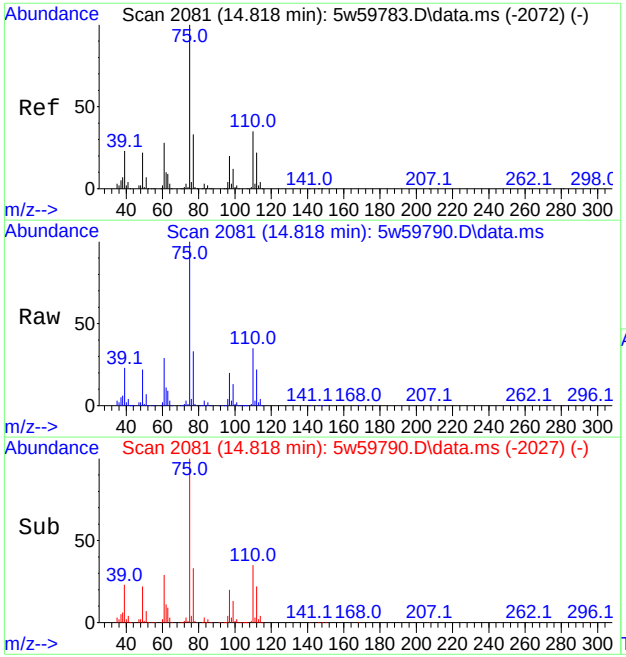


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.14 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1743965

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.2	95.2
131	10.5	0.0	40.3

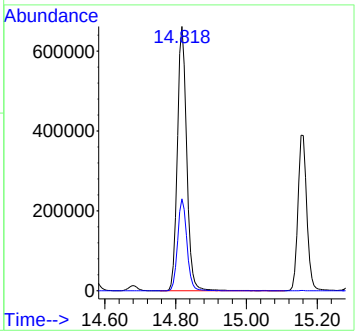


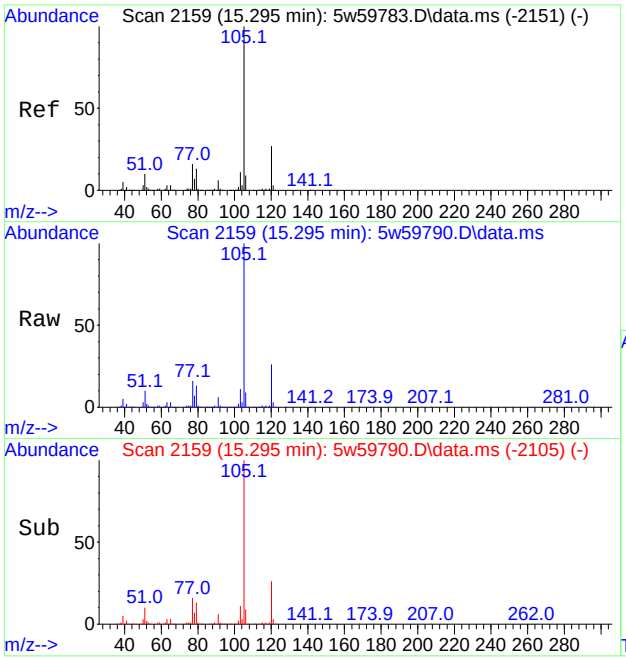


#87
1,2,3-TRICHLOROPROPANE
Concen: 10.42 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 1202955

Ion	Ratio	Lower	Upper
75	100		
110	34.7	4.4	64.4

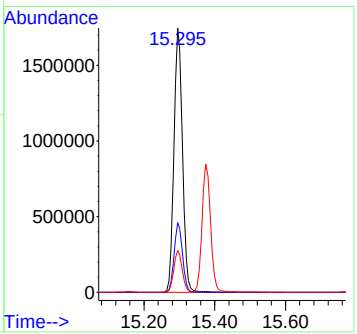


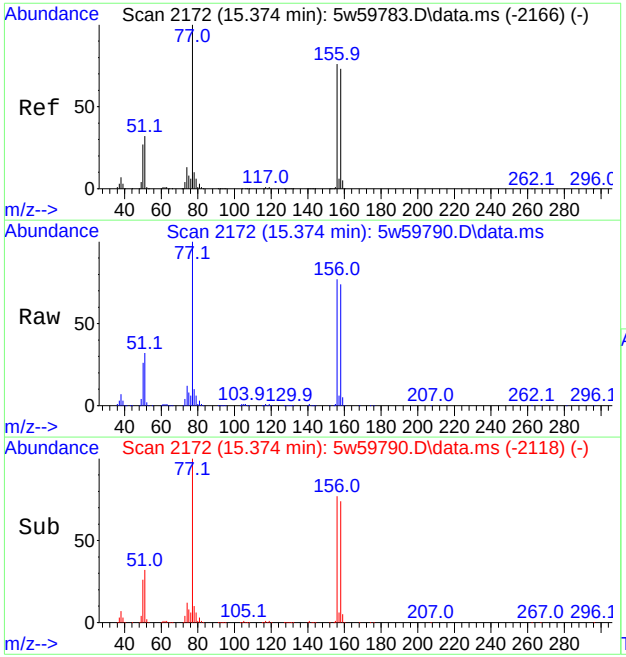


#88
ISOPROPYLBENZENE
Concen: 11.51 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2910298

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

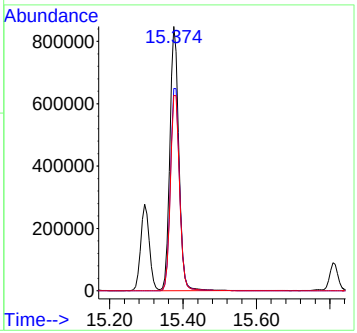


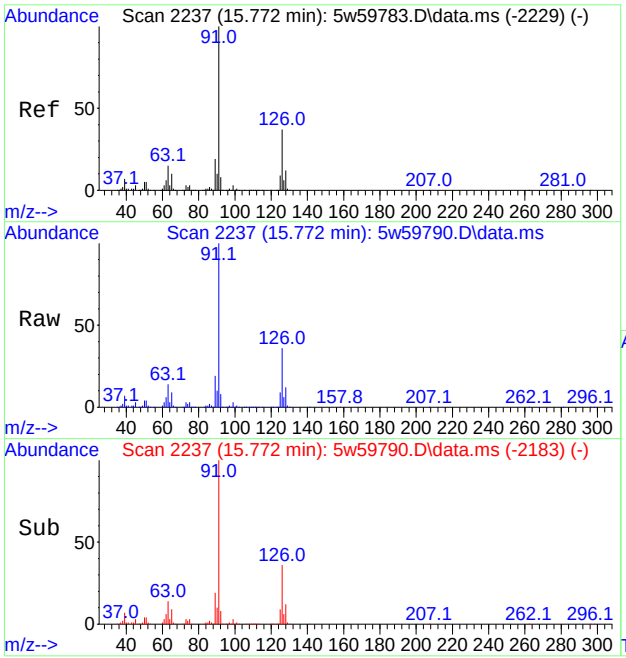


#89
BROMOBENZENE
Concen: 10.87 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 77 Resp: 1429493

Ion	Ratio	Lower	Upper
77	100		
156	78.9	54.9	101.9
158	76.6	53.5	99.3

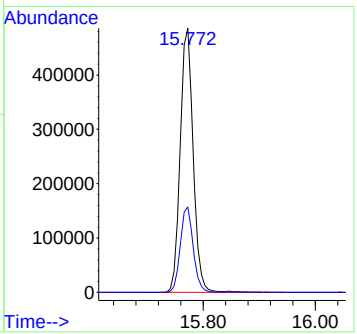


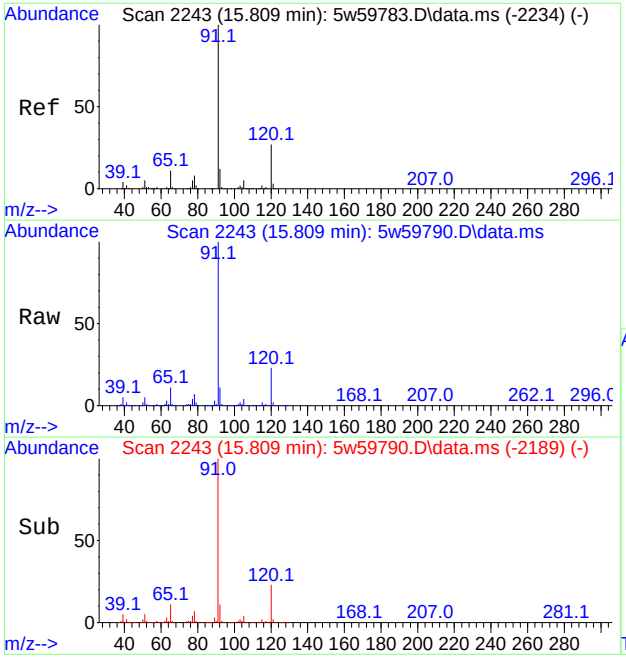


#90
2-CHLOROTOLUENE
Concen: 11.13 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:126 Resp: 779180

Ion	Ratio	Lower	Upper
126	100		
128	32.5	2.7	62.7

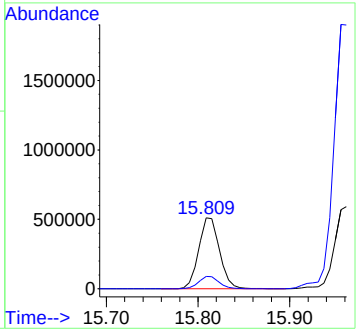


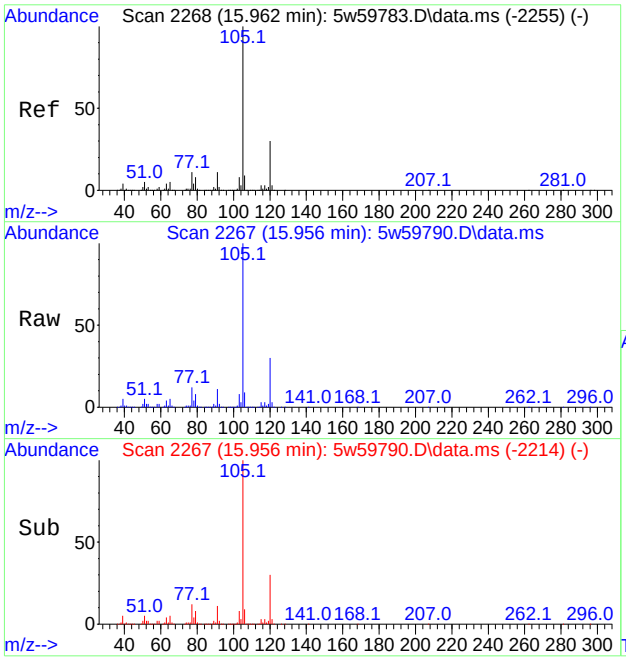


#91
n-PROPYLBENZENE
Concen: 11.92 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:120 Resp: 807953

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

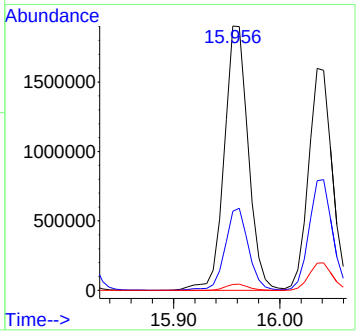


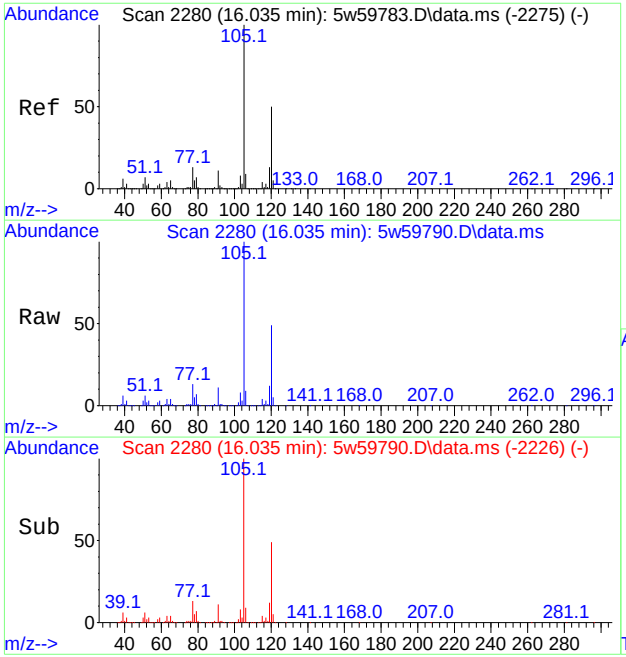


#92
4-ETHYLTOLUENE
Concen: 12.93 PPBV
RT: 15.956 min Scan# 2267
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2990249

Ion	Ratio	Lower	Upper
105	100		
120	30.3	0.0	59.9
119	2.3	0.0	32.3

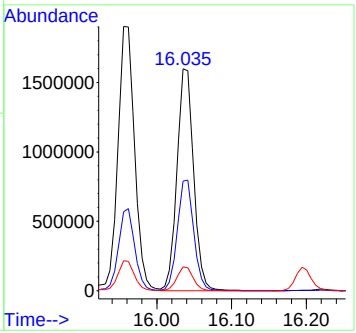


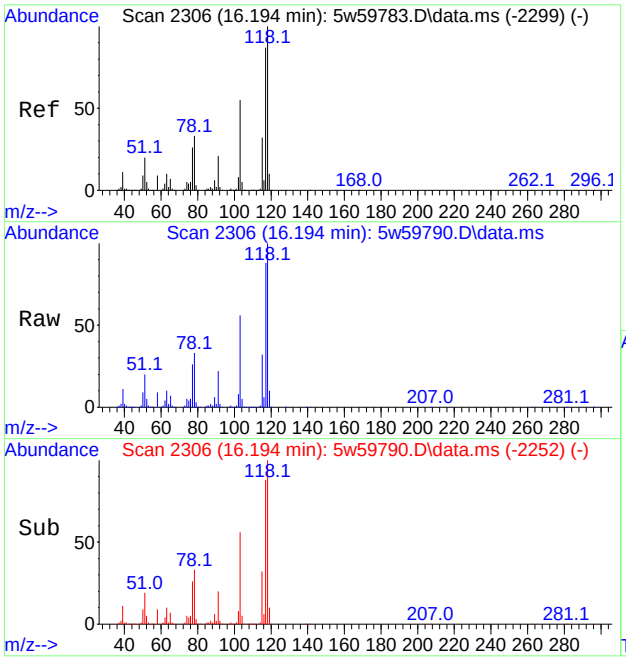


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.54 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2480601

Ion	Ratio	Lower	Upper
105	100		
120	49.3	19.4	79.4
91	10.7	0.0	40.8

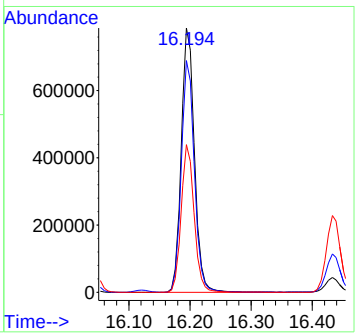


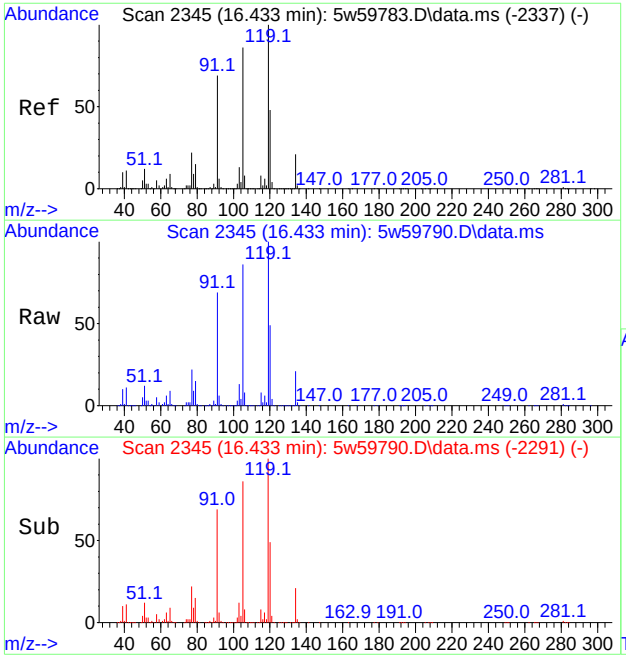


#94
ALPHA-METHYLSTYRENE
Concen: 11.12 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:118 Resp: 1177774

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.4	38.6	71.8

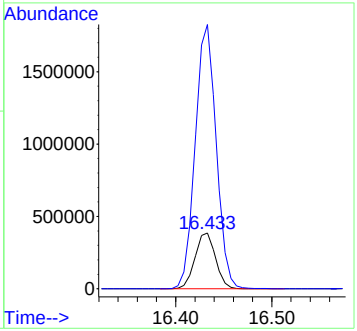


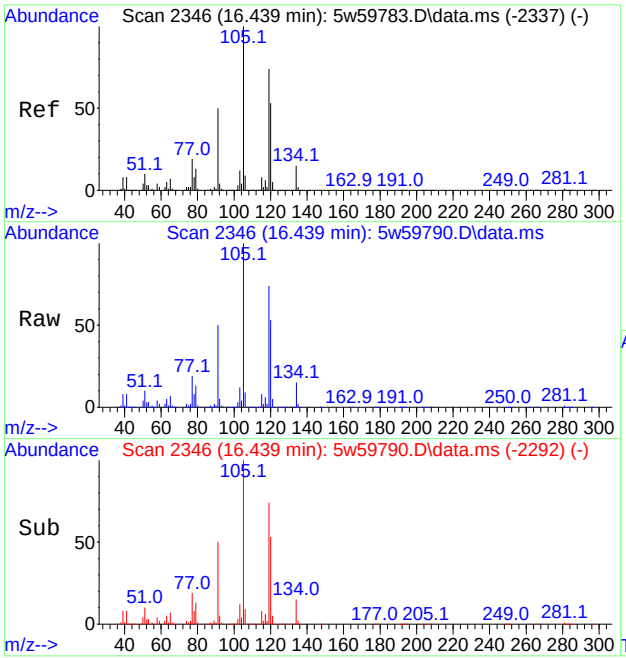


#95
tert-BUTYLBENZENE
Concen: 13.08 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 570968

Ion	Ratio	Lower	Upper
134	100		
119	485.6	459.3	519.3

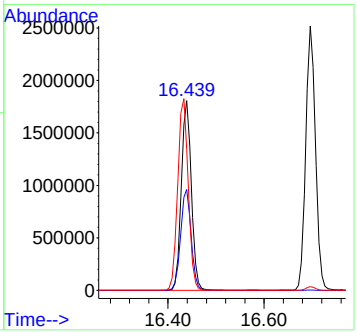


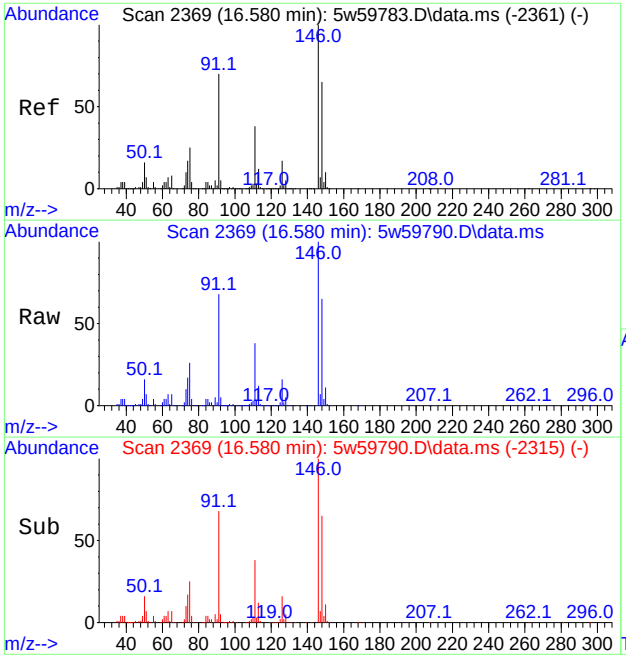


#96
1,2,4-TRIMETHYLBENZENE
Concen: 13.02 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2612198

Ion	Ratio	Lower	Upper
105	100		
120	55.9	25.7	85.7
119	106.1	75.7	135.7

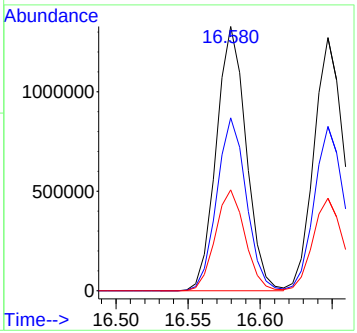


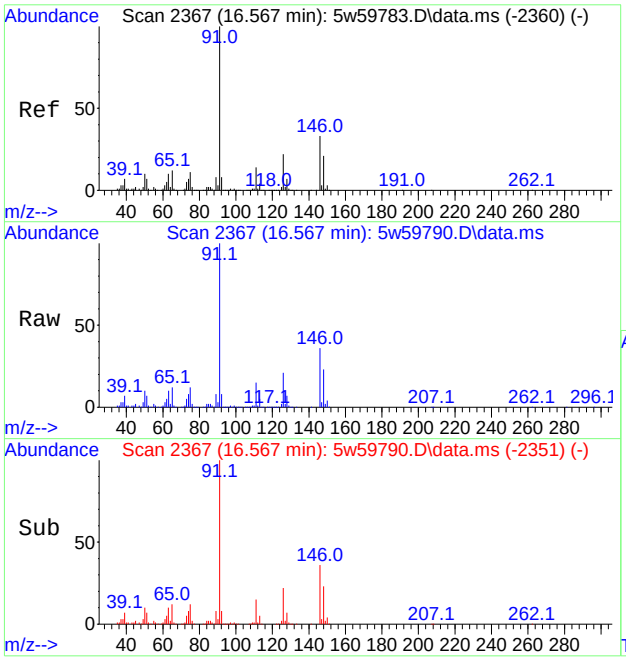


#97
m-DICHLOROBENZENE
Concen: 12.50 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1916772

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.8	94.8
111	38.1	8.2	68.2

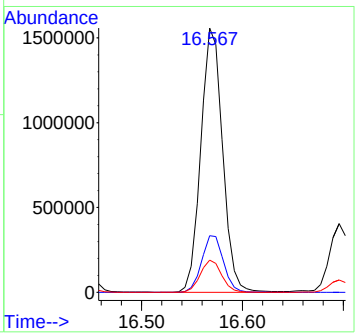


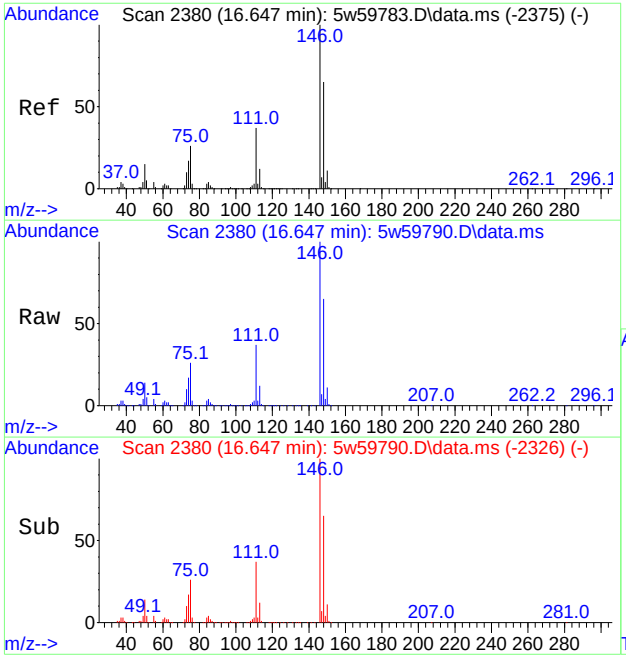


#98
BENZYL CHLORIDE
Concen: 12.63 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2335931

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.1	0.0	42.2

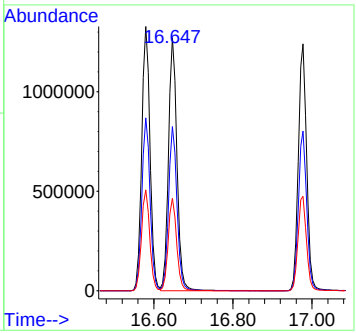


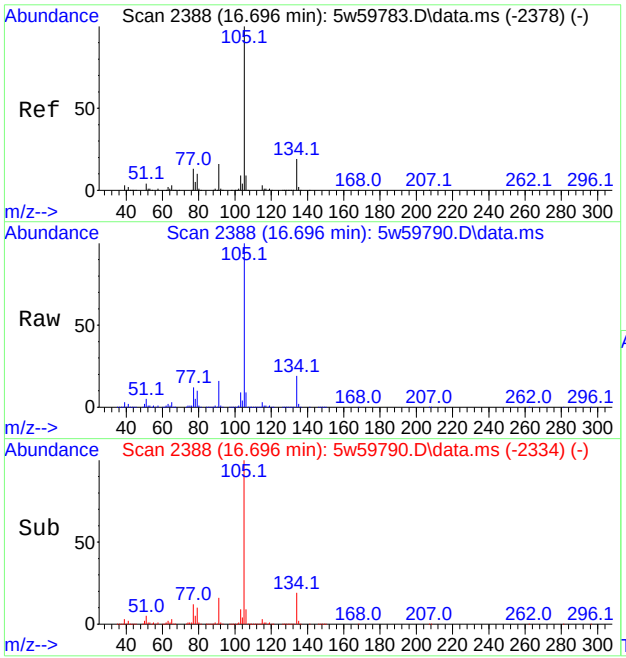


#99
p-DICHLOROBENZENE
Concen: 11.46 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1889997

Ion	Ratio	Lower	Upper
146	100		
148	64.7	34.6	94.6
111	36.6	6.7	66.7

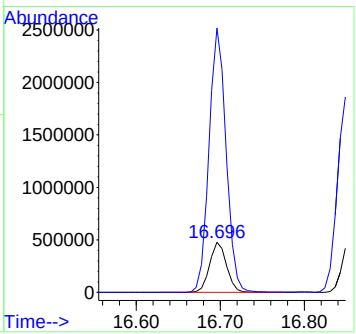


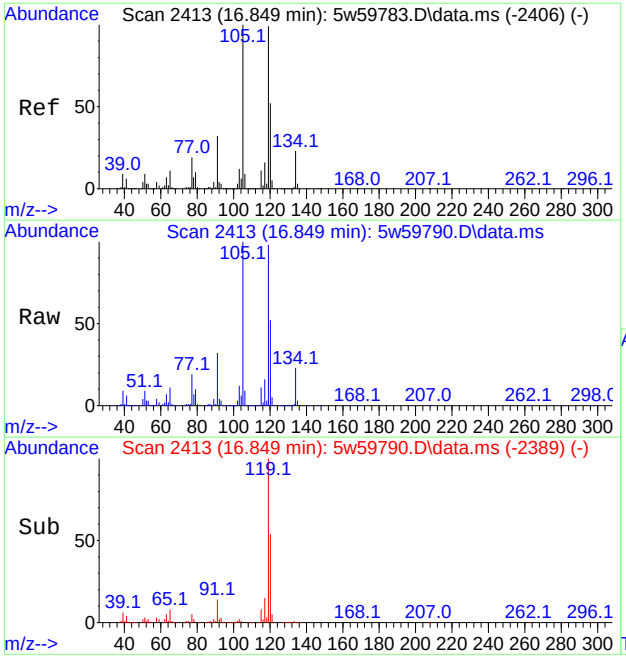


#100
sec-BUTYLBENZENE
Concen: 12.13 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 670798

Ion	Ratio	Lower	Upper
134	100		
105	530.0	502.5	562.5

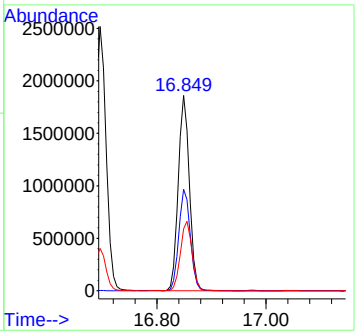


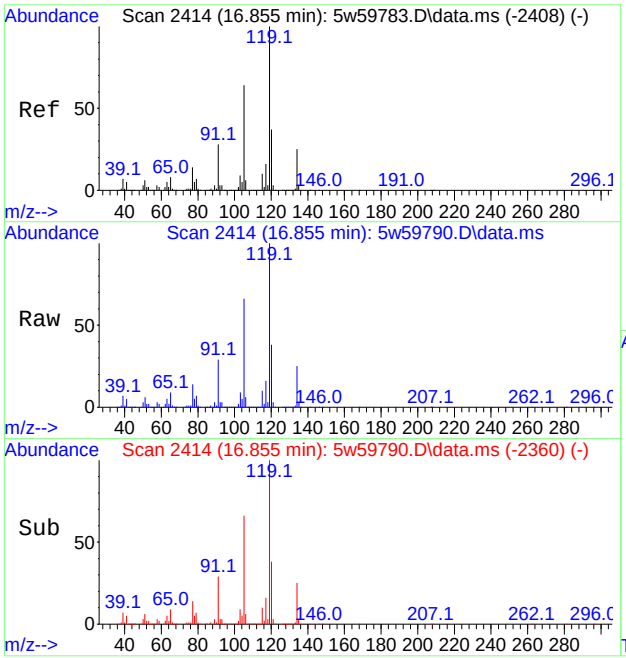


#101
1,2,3-TRIMETHYLBENZENE
Concen: 12.36 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2623929

Ion	Ratio	Lower	Upper
105	100		
120	53.6	23.5	83.5
91	37.1	7.4	67.4

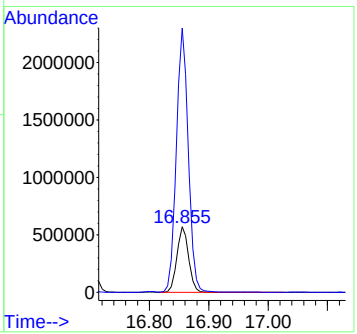


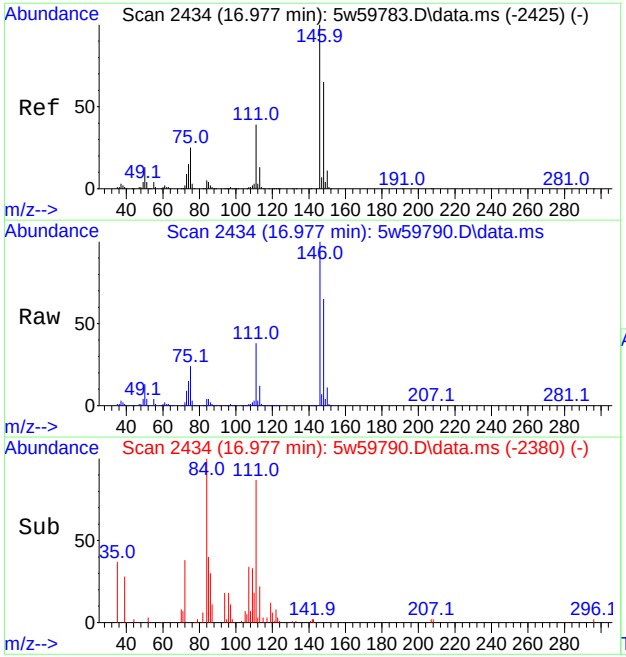


#102
p-ISOPROPYLTOLUENE
Concen: 12.67 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 794033

Ion	Ratio	Lower	Upper
134	100		
119	408.5	377.7	437.7

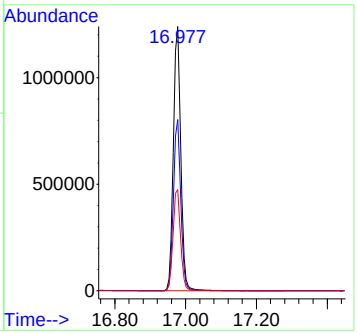


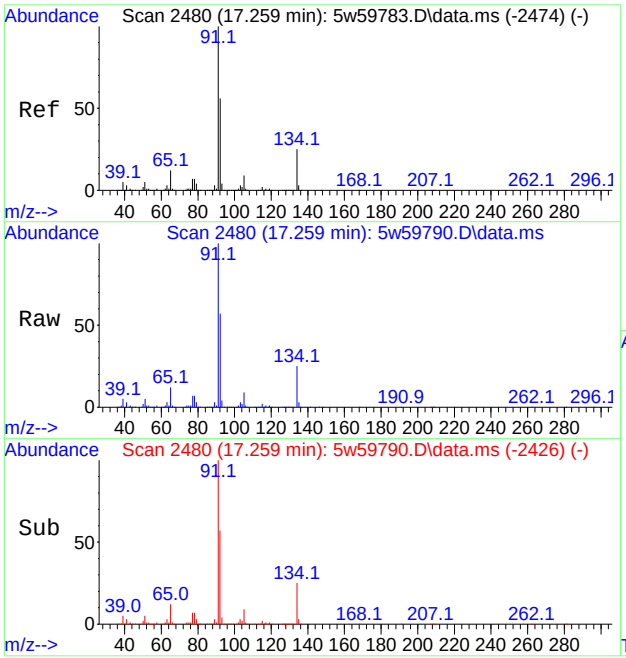


#103
o-DICHLOROBENZENE
Concen: 11.75 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1807576

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.3	94.3
111	38.9	9.2	69.2

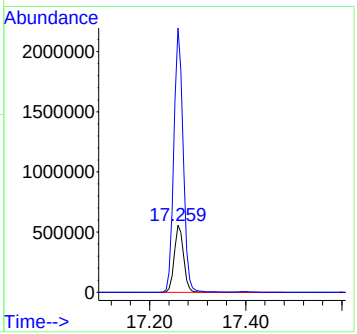


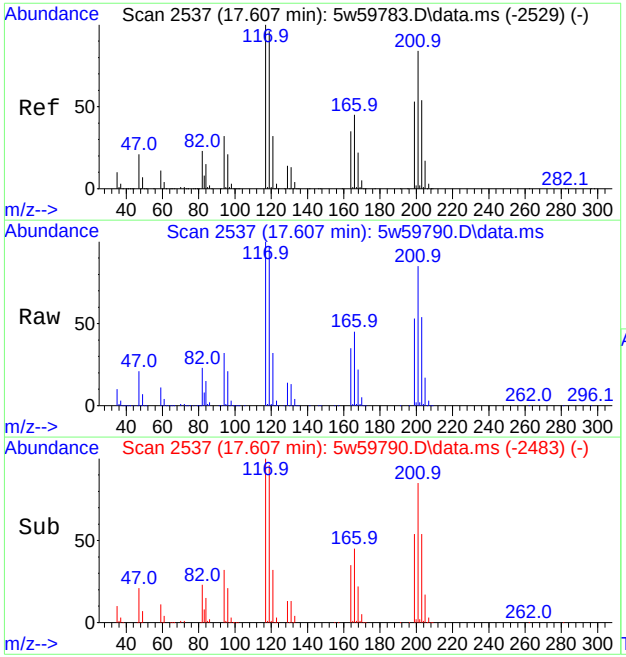


#104
n-BUTYLBENZENE
Concen: 12.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 753590

Ion	Ratio	Lower	Upper
134	100		
91	392.6	363.1	423.1

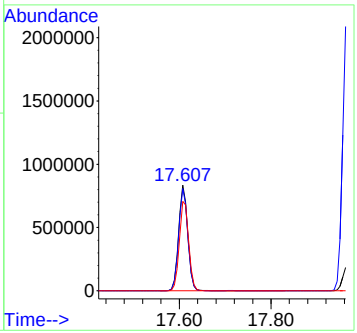


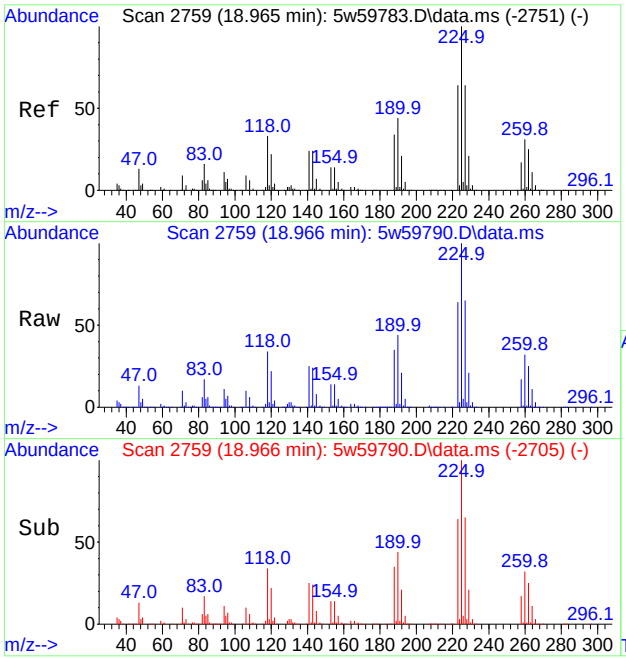


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1153176

Ion	Ratio	Lower	Upper
117	100		
119	96.2	67.2	124.8
201	86.7	61.1	113.5

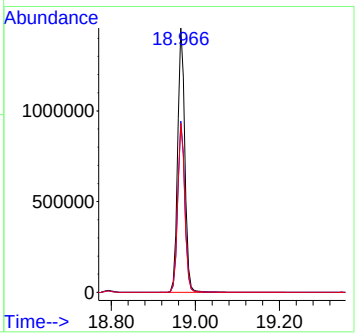


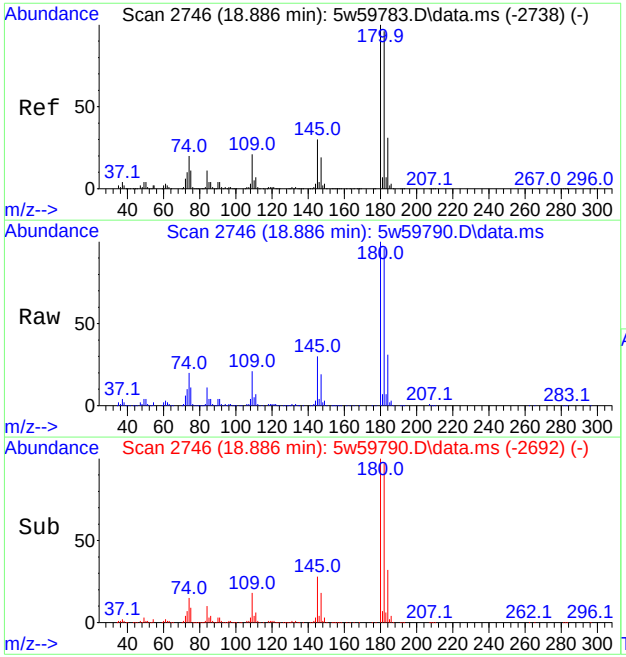


#106
HEXACHLOROBUTADIENE
Concen: 12.11 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:225 Resp: 1732361

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.4	33.3	93.3

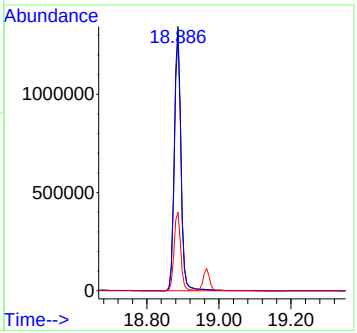


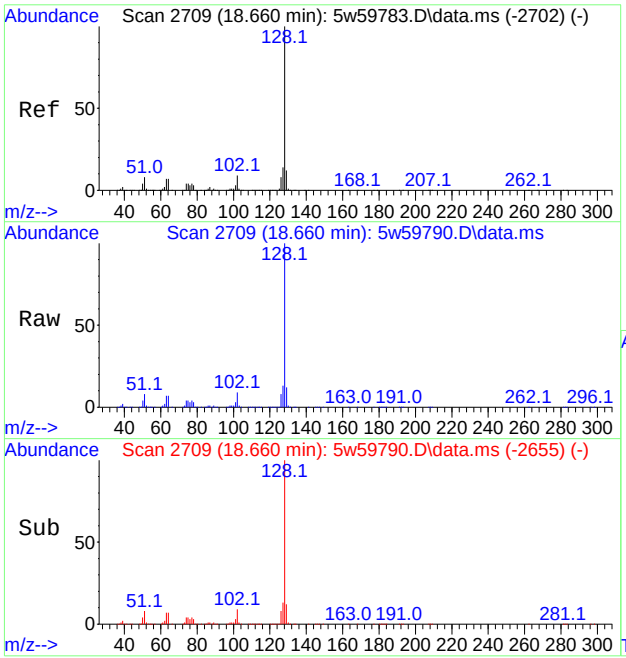


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.05 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:180 Resp: 1717833

Ion	Ratio	Lower	Upper
180	100		
182	95.9	65.4	125.4
145	29.7	0.0	59.4

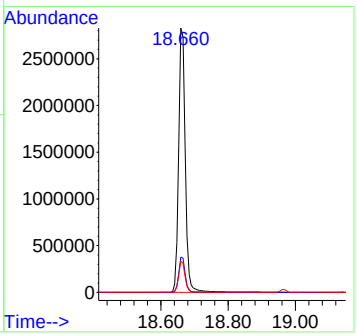


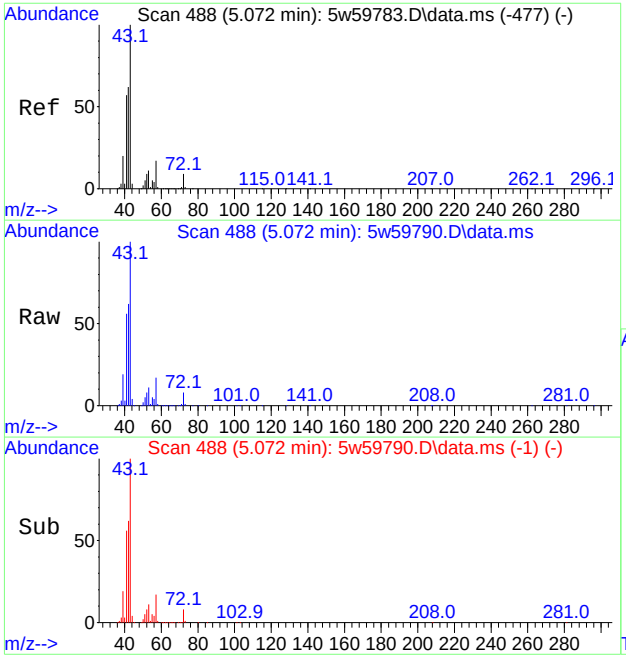


#108
NAPHTHALENE
Concen: 12.54 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:128 Resp: 3898122

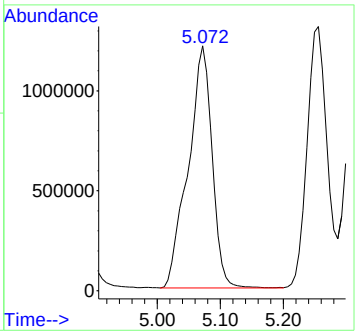
Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	43.3
129	11.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 10.55 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:TIC Resp: 3177953



7.7.11

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	470220	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2049823	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1097928	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	470220	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1392885	10.15	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.50%			
Target Compounds						Qvalue
2) FREON 115	3.371	119	326866	10.1459	PPBV	99
3) FREON 152A	3.445	65	308096	8.8346	PPBV	97
4) CHLORODIFLUOROMETHANE	3.475	67	159233	10.9155	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	818335	11.2032	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.549	85	1510102	11.2218	PPBV	98
7) PROPYLENE	3.500	41	319179	8.8431	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1145136	10.5076	PPBV	97
9) FREON 114	3.732	85	1491348	12.1231	PPBV	98
10) CHLOROMETHANE	3.665	52	137482	9.3028	PPBV	99
11) VINYL CHLORIDE	3.818	62	481278	10.5650	PPBV	99
12) 1,3-BUTADIENE	3.910	54	283401	10.3340	PPBV	98
13) n-BUTANE	3.946	43	441343	9.8480	PPBV	98
14) BROMOMETHANE	4.106	94	546023	11.2707	PPBV	100
15) CHLOROETHANE	4.228	64	210971	9.4930	PPBV	98
16) DICHLOROFLUOROMETHANE	4.289	67	1072755	11.0813	PPBV	99
17) ACETONITRILE	4.479	41	247921	9.6837	PPBV	100
18) ACROLEIN	4.570	56	151722	10.4286	PPBV	96
19) FREON 123	4.589	83	1267783	11.3202	PPBV #	71
20) FREON 123A	4.632	117	778337	12.1007	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.791	101	1341181	11.6680	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	834842	9.0540	PPBV	97
23) ACETONE	4.674	58	187128	10.1467	PPBV	90
24) PENTANE	5.072	42	413834	8.6386	PPBV	99
25) IODOMETHANE	5.256	142	1685190	11.7624	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	518986	10.2907	PPBV	92
27) CARBON DISULFIDE	5.672	76	1376641	10.4175	PPBV	98
28) ETHANOL	4.320	45	171992	11.1335	PPBV	99
29) BROMOETHENE	4.479	106	567142	11.8700	PPBV	100
30) ACRYLONITRILE	5.042	52	297460	9.5306	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	451379	9.5667	PPBV	91
32) 3-CHLOROPROPENE	5.519	76	215893	9.5054	PPBV	87
33) FREON 113	5.641	151	951655	11.3406	PPBV	97
34) TRANS-1,2-DICHLOROETHY...	6.241	96	526395	9.9548	PPBV	93
35) TERTIARY BUTYL ALCOHOL	5.378	59	919943	9.7568	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1337117	10.0464	PPBV	97
37) TETRAHYDROFURAN	7.856	72	200962	11.0075	PPBV	91
38) HEXANE	7.379	57	724495	9.6508	PPBV	98
39) VINYL ACETATE	6.565	86	82739	10.8977	PPBV #	70
40) 1,1-DICHLOROETHANE	6.424	63	921820	9.5004	PPBV	99
41) METHYL ETHYL KETONE	6.797	72	211335	11.6357	PPBV #	85
42) cis-1,2-DICHLOROETHYLENE	7.195	96	554718	9.6249	PPBV	95
43) DIISOPROPYL ETHER	7.385	59	226741	11.4869	PPBV	95
44) ETHYL ACETATE	7.415	61	165646	11.9353	PPBV #	1
45) METHYL ACRYLATE	7.403	55	907802	12.2101	PPBV	98
46) CHLOROFORM	7.476	83	1168778	11.1790	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	832763	9.8014	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.406	97	1211580	11.1104	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1349067	11.3900	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	775572	10.6757	PPBV		99
52)	BENZENE	8.853	78	1495903	10.8929	PPBV		98
53)	CYCLOHEXANE	9.104	84	581961	10.6075	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.348	71	291255	10.5057	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	792757	11.3323	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	576732	9.0459	PPBV		99
57)	DIBROMOMETHANE	9.630	174	860591	11.0058	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1100529	11.0454	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1346052	11.0969	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2287516	10.5261	PPBV		99
61)	1,4-DIOXANE	9.899	88	347837	11.1041	PPBV		92
62)	HEPTANE	10.180	43	728662	9.2215	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	501935	11.2148	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	463649	11.4439	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.749	75	999428	10.2319	PPBV		95
66)	TOLUENE	11.716	92	1111812	10.8312	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	888447	10.6183	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	902397	9.7868	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	624758	11.2090	PPBV		100
71)	2-HEXANONE	12.010	58	674815	11.7504	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	901895	11.8904	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	962806	12.8556	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.150	129	1573733	12.1695	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1269369	12.6163	PPBV		100
76)	OCTANE	12.738	43	1053564	10.1020	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1003830	12.1912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1619008	11.8010	PPBV		100
79)	ETHYLBENZENE	13.980	91	2508035	11.9174	PPBV		100
80)	m,p-XYLENE	14.181	106	1924720	23.2075	PPBV		99
81)	o-XYLENE	14.677	106	949484	12.2264	PPBV		100
82)	STYRENE	14.567	104	1494724	12.3322	PPBV		99
83)	NONANE	14.928	43	1096357	10.3927	PPBV		97
84)	BROMOFORM	14.249	173	1685100	13.2101	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1656478	12.2657	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1130272	10.4090	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2741340	11.5284	PPBV		100
89)	BROMOBENZENE	15.374	77	1335269	10.7933	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	750782	11.4000	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	767167	12.0340	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2799486	12.8708	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2378299	11.7612	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1185359	11.8976	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	543620	13.2410	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2520167	13.3550	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1855781	12.8649	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2204108	12.6776	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1844102	11.8897	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	617709	11.8779	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2525370	12.6546	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	778885	13.2130	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1713925	11.8444	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	715520	12.3936	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1003668	10.0858	PPBV		99
106)	HEXACHLOROBUTADIENE	18.965	225	1793051	13.3307	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1773089	13.2234	PPBV		100
108)	NAPHTHALENE	18.660	128	3918365	13.4079	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	2785944	9.7977	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

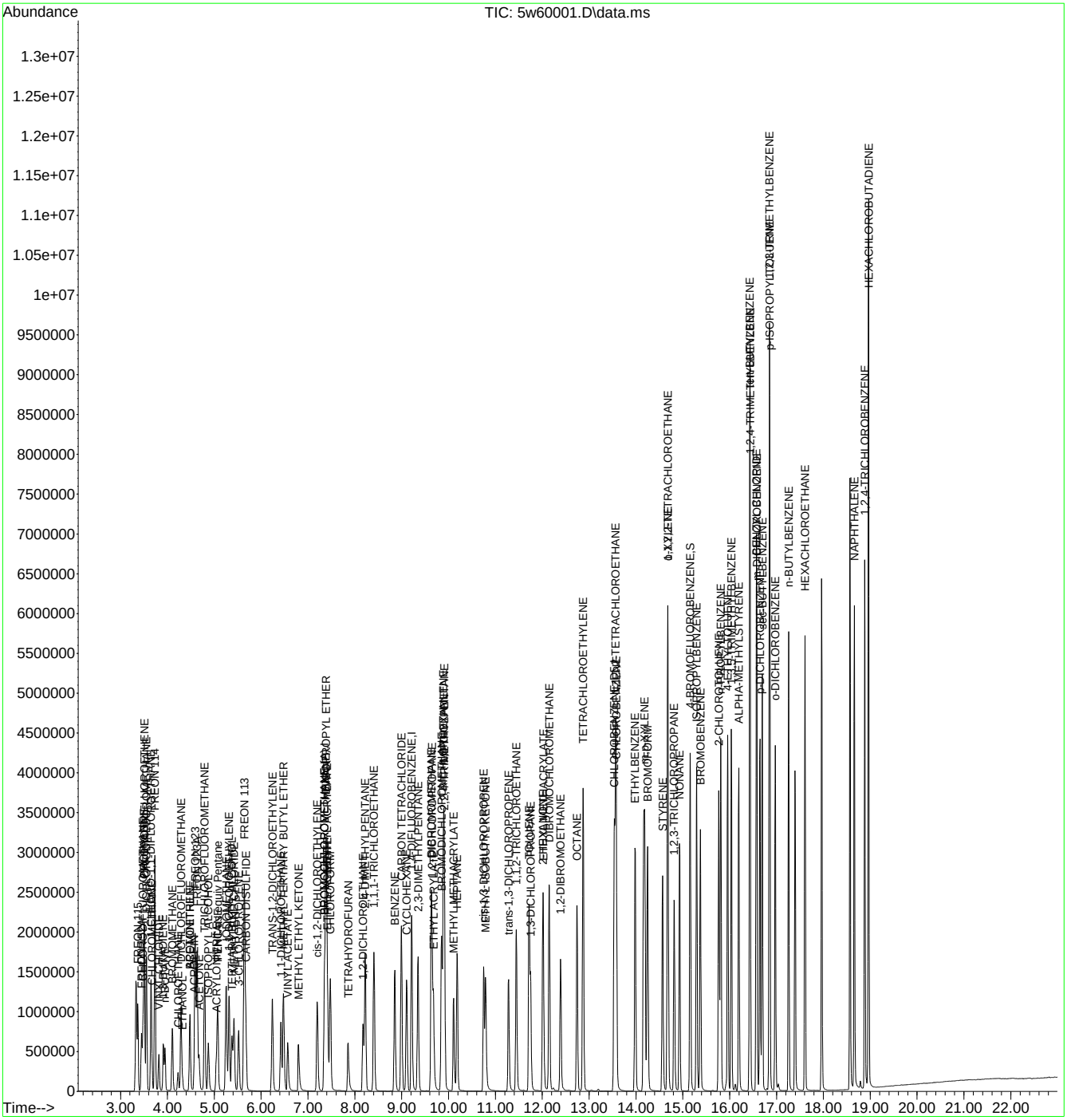
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	114117	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	582166	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	538138	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	114117	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	427692	9.77	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	571	0.04	PPBV		82
3) FREON 152A	1.602	65	357	0.05	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	127	0.04	PPBV	#	79
5) CHLOROTRIFLUOROETHENE	1.631	116	598	0.04	PPBV		77
6) DICHLORODIFLUOROMETHANE	1.647	85	1176m	0.03	PPBV		
7) PROPYLENE	1.628	41	518	0.06	PPBV	#	80
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1089	0.04	PPBV		93
9) FREON 114	1.714	85	1188	0.04	PPBV		81
10) CHLOROMETHANE	1.689	52	220	0.06	PPBV		60
11) VINYL CHLORIDE	1.747	62	679	0.05	PPBV	#	92
12) 1,3-BUTADIENE	1.785	54	573	0.05	PPBV	#	62
14) BROMOMETHANE	1.859	94	558	0.05	PPBV	#	95
15) CHLOROETHANE	1.907	64	393	0.05	PPBV		91
16) DICHLOROFLUOROMETHANE	1.930	67	1164	0.04	PPBV	#	56
17) ACETONITRILE	2.001	41	762	0.06	PPBV	#	43
19) FREON 123	2.049	83	1179	0.04	PPBV		97
20) FREON 123A	2.062	117	787	0.05	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.129	101	1269	0.04	PPBV	#	98
24) PENTANE	2.239	42	777	0.06	PPBV	#	82
25) IODOMETHANE	2.300	142	1191	0.04	PPBV		93
26) 1,1-DICHLOROETHYLENE	2.332	96	522	0.04	PPBV	#	59
27) CARBON DISULFIDE	2.460	76	1446	0.04	PPBV	#	4
29) BROMOETHENE	2.001	106	466	0.04	PPBV	#	94
32) 3-CHLOROPROPENE	2.409	76	263	0.04	PPBV	#	64
33) FREON 113	2.460	151	709	0.04	PPBV		83
34) TRANS-1,2-DICHLOROETHENE	2.685	96	555	0.04	PPBV	#	58
35) TERTIARY BUTYL ALCOHOL	2.348	59	1458	0.05	PPBV	#	71
36) METHYL TERTIARY BUTYL ...	2.795	73	1635	0.04	PPBV	#	50
37) TETRAHYDROFURAN	3.499	72	205	0.03	PPBV	#	48
38) HEXANE	3.242	57	1163	0.05	PPBV		87
39) VINYL ACETATE	2.833	86	161	0.05	PPBV	#	13
40) 1,1-DICHLOROETHANE	2.759	63	1028	0.04	PPBV		99
41) METHYL ETHYL KETONE	2.930	72	323	0.05	PPBV	#	25
42) CIS-1,2-DICHLOROETHENE	3.116	96	586	0.04	PPBV		81
43) DIISOPROPYL ETHER	3.245	59	314	0.05	PPBV		88
44) ETHYL ACETATE	3.251	61	203	0.04	PPBV	#	97
45) METHYL ACRYLATE	3.242	55	1383	0.05	PPBV	#	86
46) CHLOROFORM	3.261	83	1053	0.04	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	3.740	57	1228	0.04	PPBV	#	92
48) 1,1,1-TRICHLOROETHANE	3.820	97	1132	0.04	PPBV		92
49) CARBON TETRACHLORIDE	4.235	117	1061	0.04	PPBV		88
50) 1,2-DICHLOROETHANE	3.656	62	712	0.03	PPBV	#	93
51) BENZENE	4.132	78	1781	0.05	PPBV		94
53) CYCLOHEXANE	4.332	84	700	0.04	PPBV	#	56
54) 2,3-DIMETHYLPENTANE	4.586	71	330	0.04	PPBV	#	6
55) TRICHLOROETHENE	5.013	95	741	0.04	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	703	0.04	PPBV	#	77
57) DIBROMOMETHANE	4.740	174	802	0.05	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

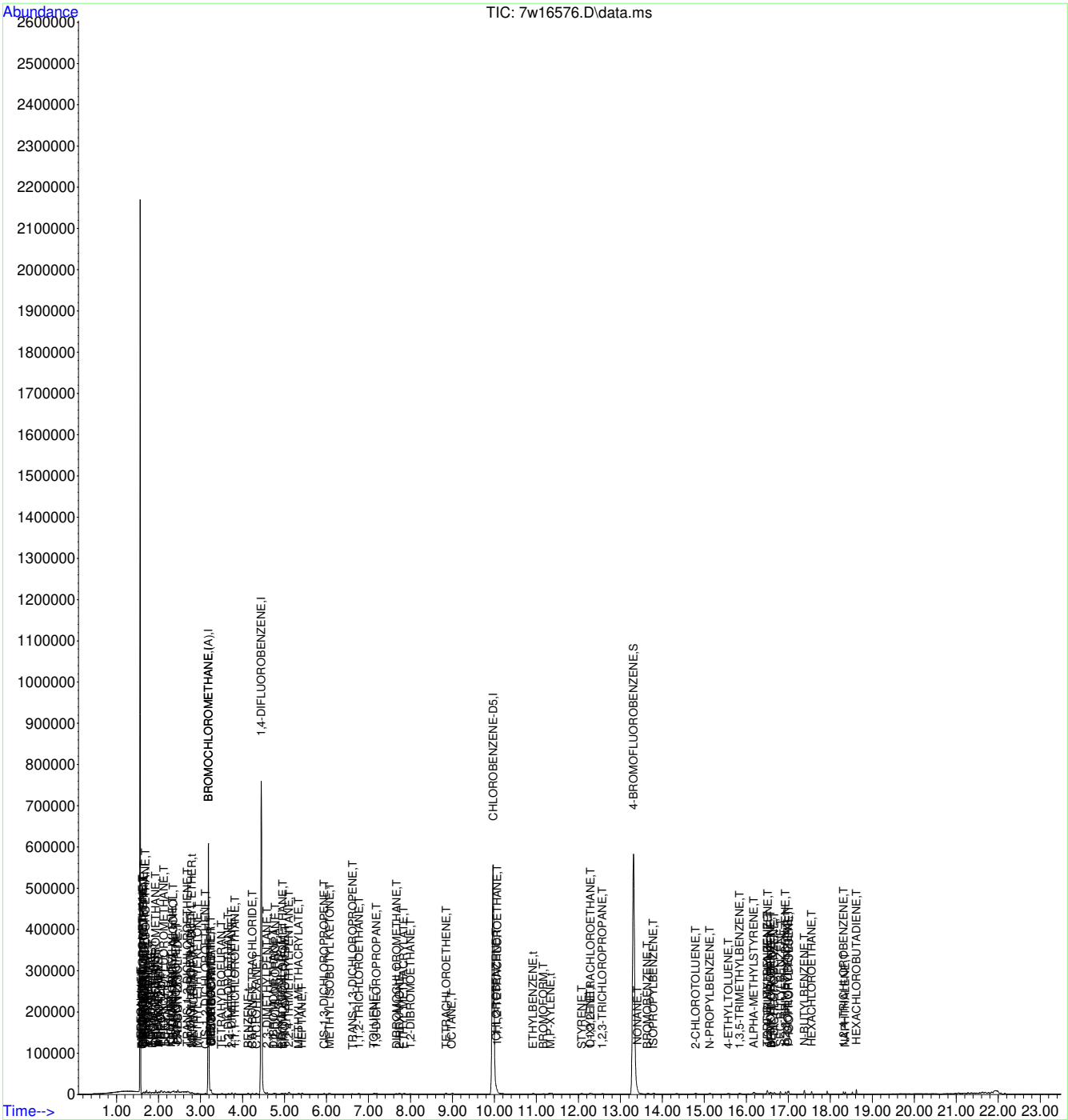
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	4.920	55	1547	0.04	PPBV	#	87
59) BROMODICHLOROMETHANE	4.959	83	1145	0.04	PPBV		97
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	3683	0.05	PPBV	#	90
62) HEPTANE	5.418	43	1262	0.05	PPBV		89
63) METHYL METHACRYLATE	5.332	69	659	0.04	PPBV	#	71
64) METHYL ISOBUTYL KETONE	6.074	58	776	0.05	PPBV	#	93
65) CIS-1,3-DICHLOROPROPENE	5.939	75	908	0.03	PPBV		89
66) TOLUENE	7.129	91	1961	0.04	PPBV		94
67) 1,3-DICHLOROPROPANE	7.187	76	917	0.04	PPBV	#	90
68) TRANS-1,3-DICHLOROPROPENE	6.624	75	685	0.03	PPBV	#	73
69) 1,1,2-TRICHLOROETHANE	6.775	83	432	0.03	PPBV		88
70) 2-HEXANONE	7.733	58	1334	0.06	PPBV	#	1
71) ETHYL METHACRYLATE	7.836	69	991	0.04	PPBV	#	33
72) TETRACHLOROETHENE	8.852	164	707	0.04	PPBV	#	62
73) DIBROMOCHLOROMETHANE	7.669	129	938	0.03	PPBV	#	21
74) 1,2-DIBROMOETHANE	8.004	107	998	0.04	PPBV	#	98
75) OCTANE	8.981	43	1632	0.04	PPBV	#	30
77) 1,1,1,2-TETRACHLOROETHANE	10.065	131	804	0.04	PPBV		100
78) CHLOROBENZENE	10.039	112	1584	0.04	PPBV	#	75
79) ETHYLBENZENE	10.917	91	2610	0.04	PPBV		87
80) M,P-XYLENE	11.335	91	4291	0.08	PPBV		90
81) O-XYLENE	12.280	91	2009	0.04	PPBV	#	64
82) STYRENE	12.077	104	1372	0.04	PPBV		94
83) NONANE	13.408	43	1708	0.04	PPBV	#	21
84) BROMOFORM	11.164	173	746	0.03	PPBV	#	92
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	1386	0.04	PPBV	#	91
86) 1,2,3-TRICHLOROPROPANE	12.566	75	1086	0.04	PPBV	#	99
88) ISOPROPYLBENZENE	13.778	120	720	0.04	PPBV		100
89) BROMOBENZENE	13.643	77	1476	0.04	PPBV	#	72
90) 2-CHLOROTOLUENE	14.788	126	652	0.04	PPBV	#	66
91) N-PROPYLBENZENE	15.125	120	688	0.03	PPBV	#	64
92) 4-ETHYLTOLUENE	15.569	105	2796	0.04	PPBV	#	93
93) 1,3,5-TRIMETHYLBENZENE	15.842	105	2434	0.04	PPBV		88
94) ALPHA-METHYLSTYRENE	16.180	118	1042	0.03	PPBV		91
95) TERT-BUTYLBENZENE	16.495	134	685	0.05	PPBV		91
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	2331	0.04	PPBV		91
97) BENZYL CHLORIDE	16.601	91	1503	0.03	PPBV		89
98) M-DICHLOROBENZENE	16.572	146	1758	0.04	PPBV		98
99) P-DICHLOROBENZENE	16.666	146	1701	0.04	PPBV		93
100) O-DICHLOROBENZENE	16.987	146	1470	0.04	PPBV		92
101) SEC-BUTYLBENZENE	16.810	134	660	0.04	PPBV		63
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	2483	0.04	PPBV		94
103) P-ISOPROPYLTOLUENE	17.013	134	767	0.04	PPBV		86
104) N-BUTYLBENZENE	17.376	134	703	0.04	PPBV		66
105) HEXACHLOROETHANE	17.556	117	895	0.04	PPBV		97
106) HEXACHLOROBUTADIENE	18.620	225	1203	0.04	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.312	180	1219	0.03	PPBV		94
108) NAPHTHALENE	18.357	128	2545	0.03	PPBV		94

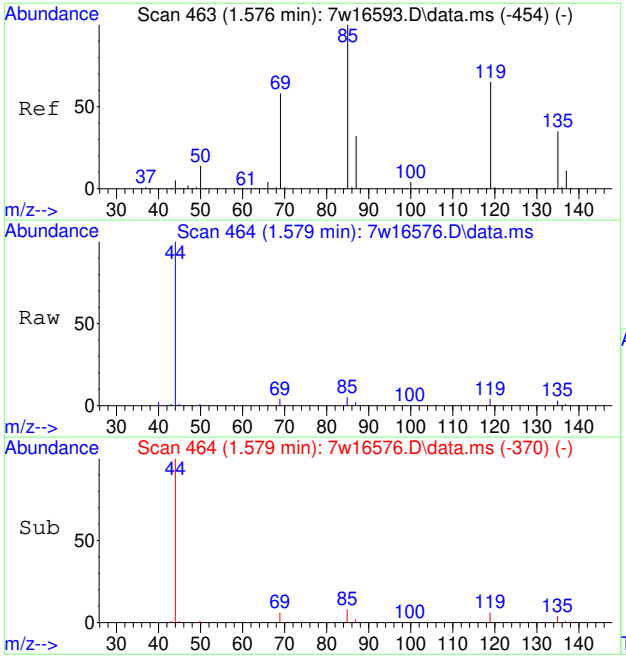
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

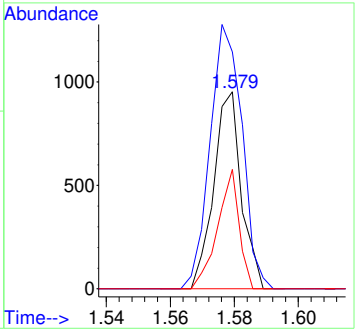


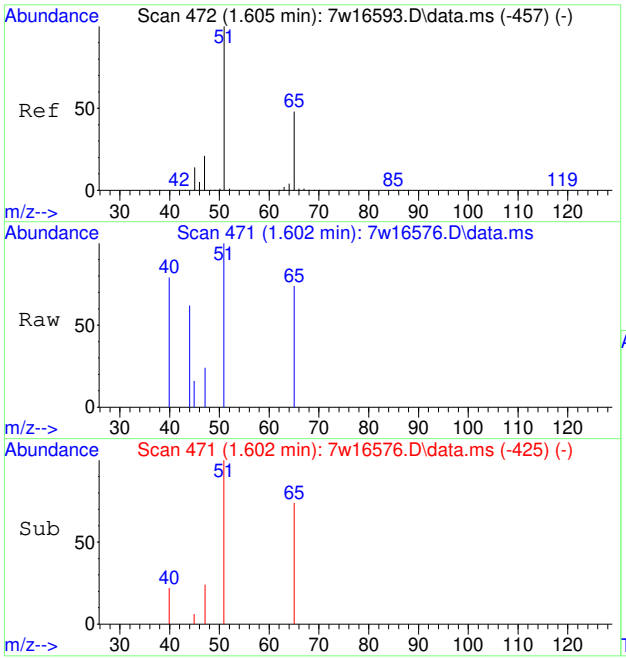


#2
FREON 115
Concen: 0.04 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:119 Resp: 571

Ion	Ratio	Lower	Upper
119	100		
85	155.3	90.9	168.7
135	47.3	38.2	71.0

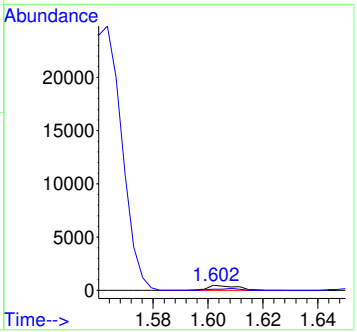


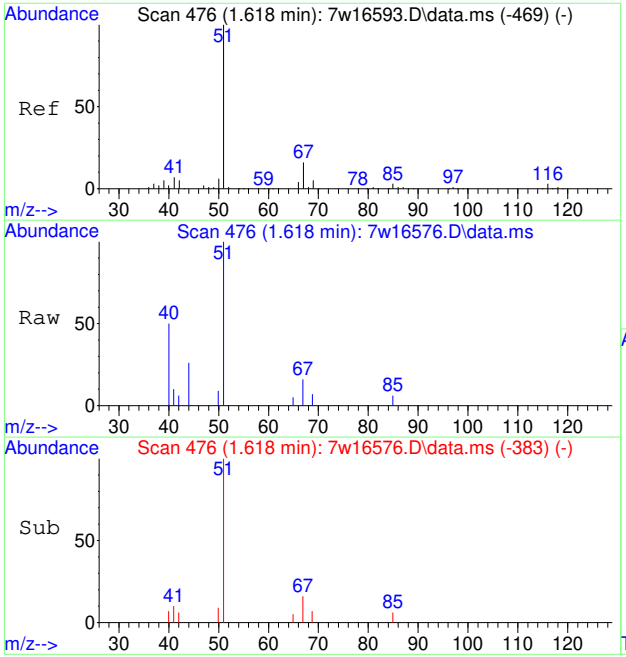


#3
FREON 152A
Concen: 0.05 PPBV
RT: 1.602 min Scan# 471
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 357

Ion	Ratio	Lower	Upper
65	100		
45	30.5	20.6	38.4

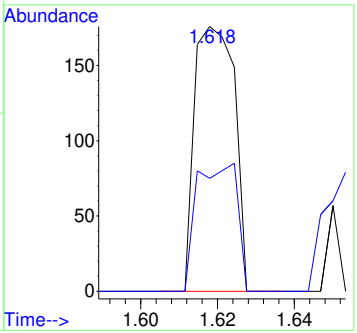


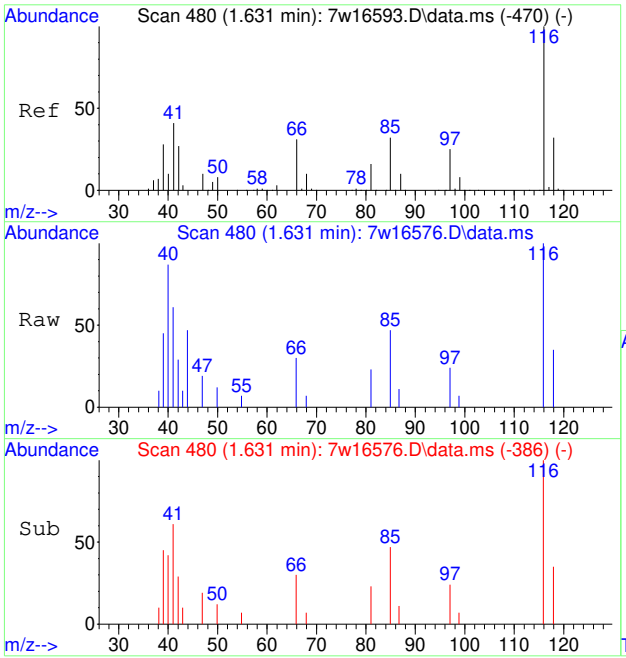


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 127

Ion	Ratio	Lower	Upper
67	100		
69	48.8	25.4	47.2#

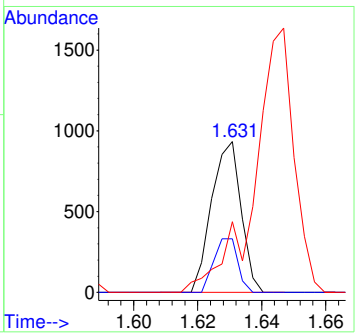


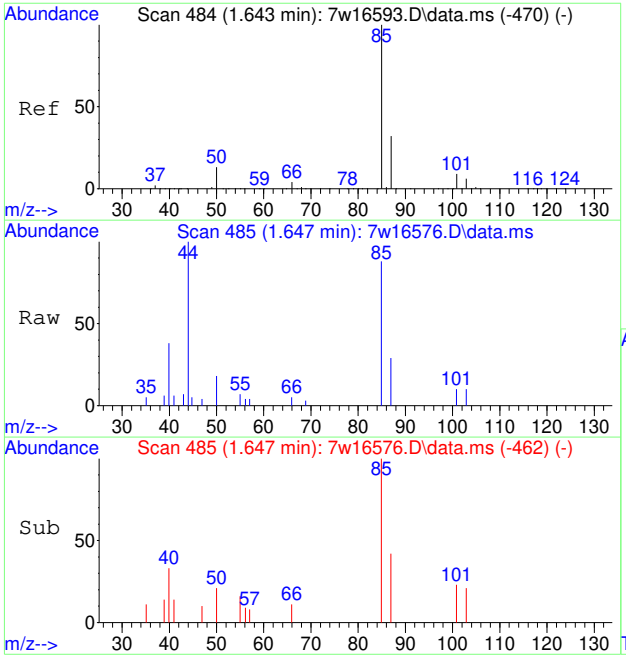


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:116 Resp: 598

Ion	Ratio	Lower	Upper
116	100		
118	28.9	22.7	42.1
85	232.1	194.7	361.7

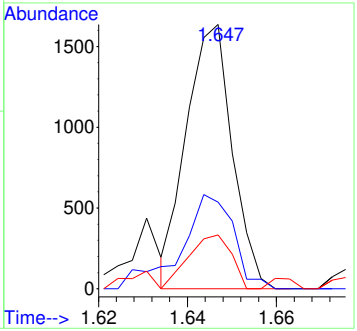


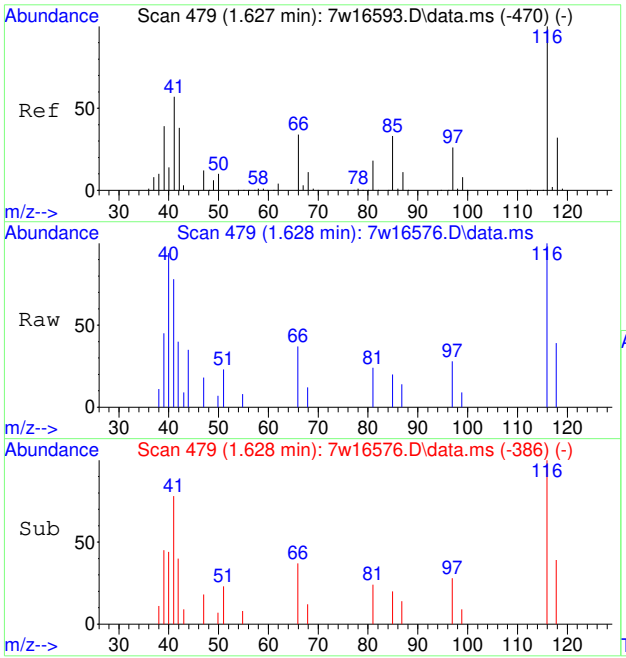


#6
DICHLORODIFLUOROMETHANE
Concen: 0.03 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1176

Ion	Ratio	Lower	Upper
85	100		
87	40.9	23.1	42.9
50	27.6	12.1	22.5#

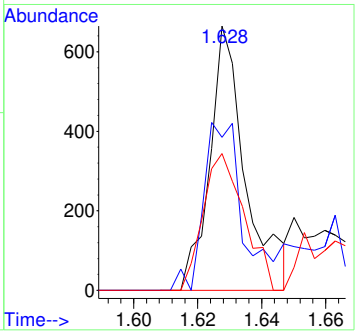


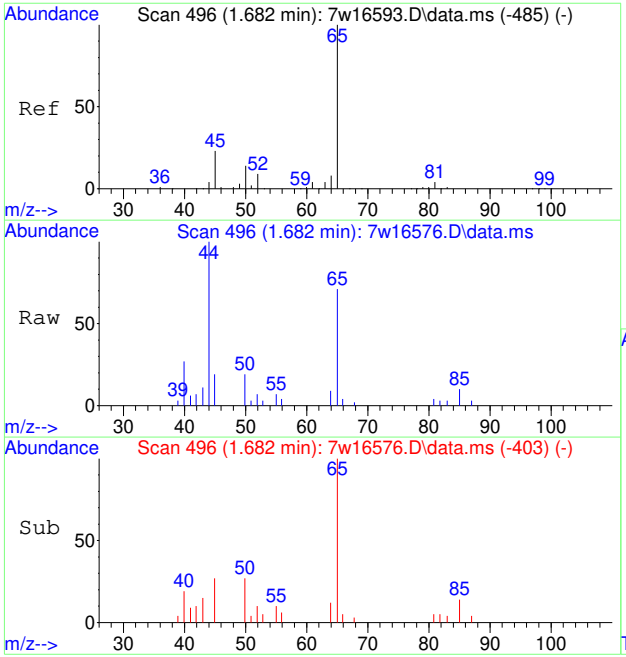


#7
PROPYLENE
Concen: 0.06 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 518

Ion	Ratio	Lower	Upper
41	100		
39	98.5	51.0	94.8#
42	59.3	46.6	86.6

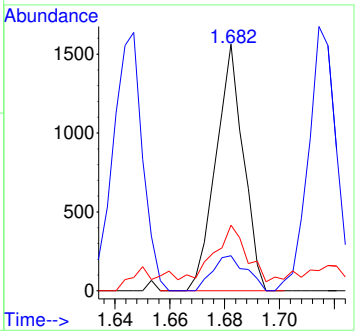


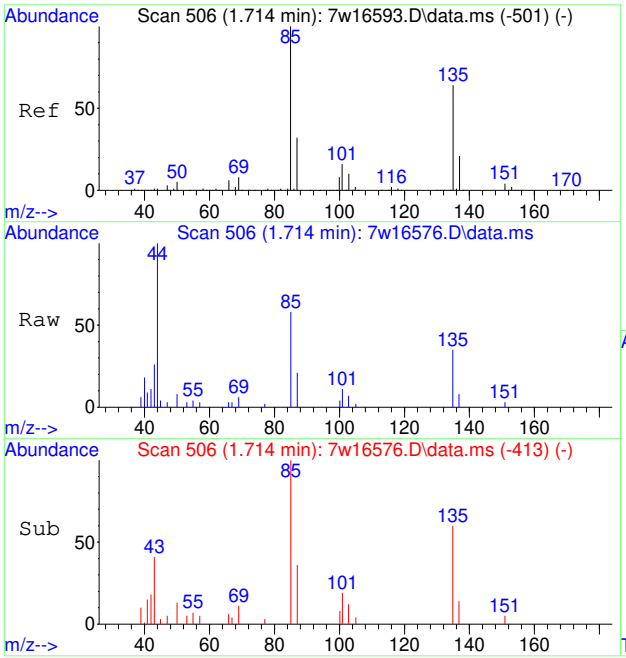


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.04 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 1089

Ion	Ratio	Lower	Upper
65	100		
85	17.5	9.7	17.9
45	27.3	17.0	31.6

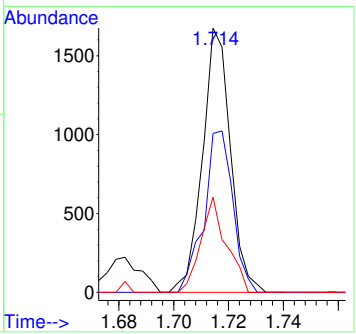


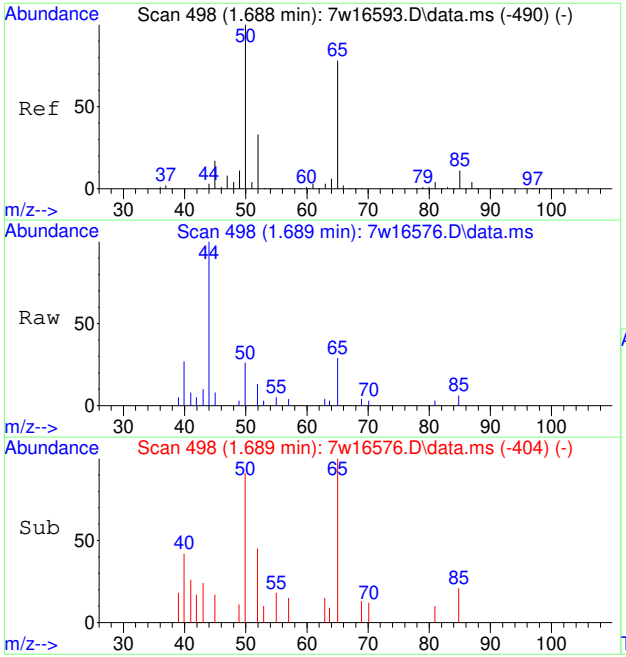


#9
FREON 114
Concen: 0.04 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1188

Ion	Ratio	Lower	Upper
85	100		
135	63.0	61.3	113.9
87	32.9	23.2	43.0

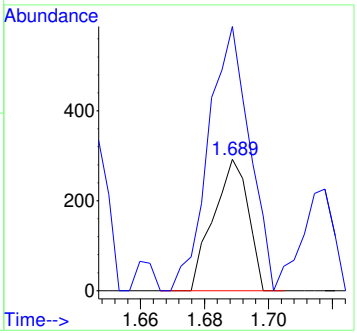


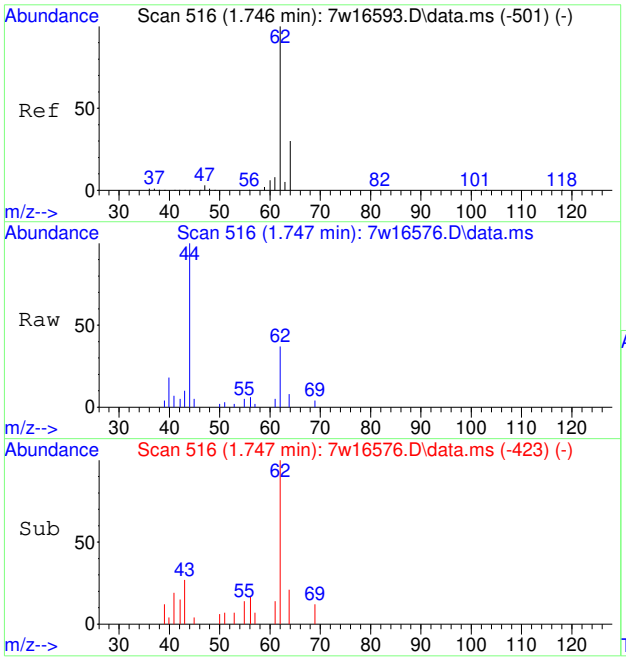


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 52 Resp: 220

Ion	Ratio	Lower	Upper
52	100		
50	242.3	227.6	422.6

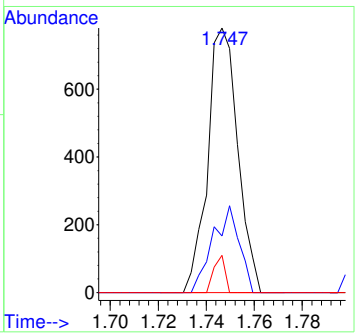


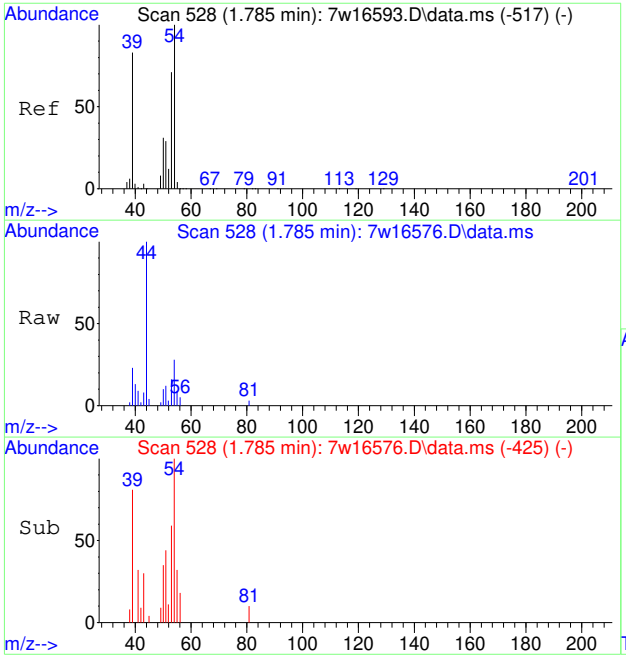


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 679

Ion	Ratio	Lower	Upper
62	100		
64	28.9	21.6	40.2
61	0.0	5.7	10.7#

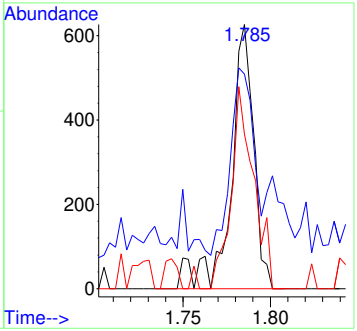


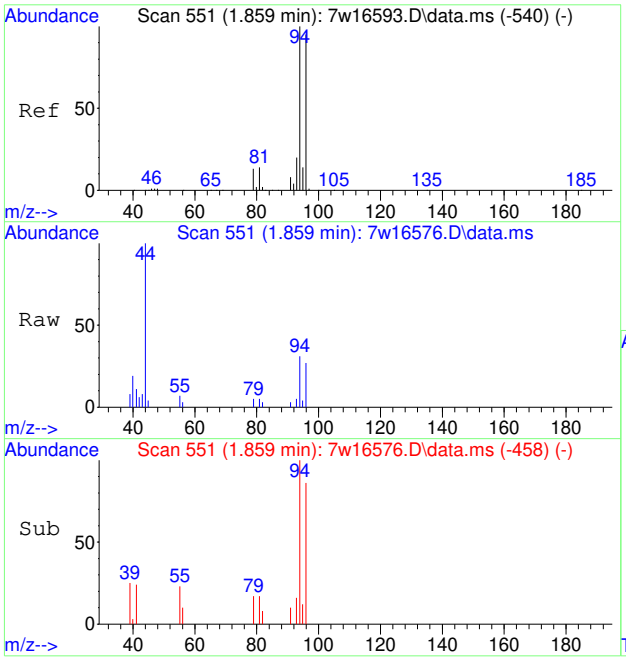


#12
1,3-BUTADIENE
Concen: 0.05 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 54 Resp: 573

Ion	Ratio	Lower	Upper
54	100		
39	88.8	125.6	185.6#
53	76.8	40.7	100.7

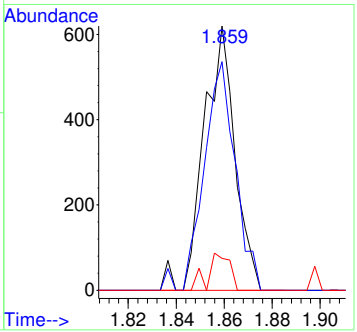


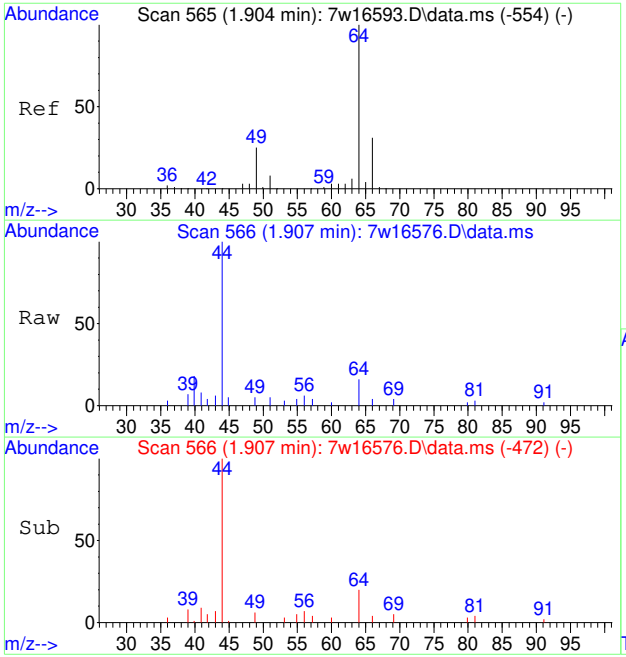


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 94 Resp: 558

Ion	Ratio	Lower	Upper
94	100		
96	87.3	63.6	118.0
95	9.9	10.0	18.6#

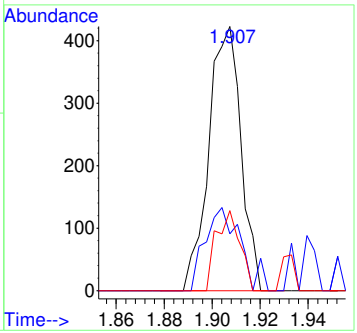


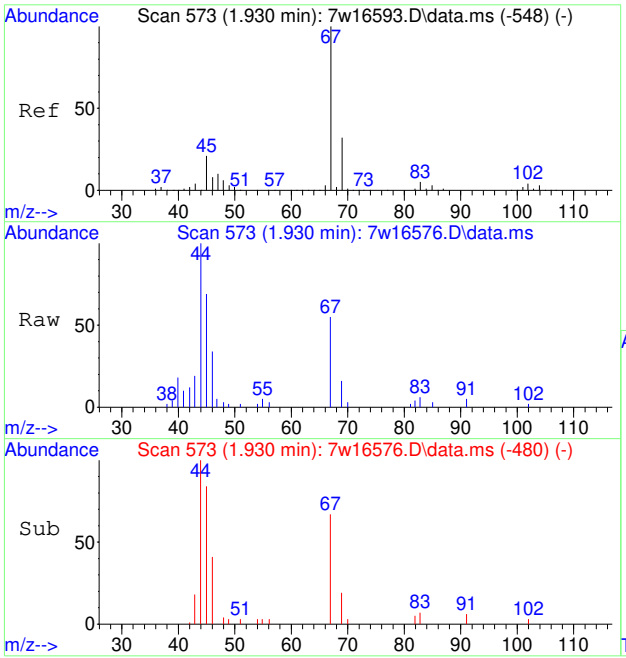


#15
CHLOROETHANE
Concen: 0.05 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 64 Resp: 393

Ion	Ratio	Lower	Upper
64	100		
66	34.9	23.0	42.6
49	22.4	21.5	39.9

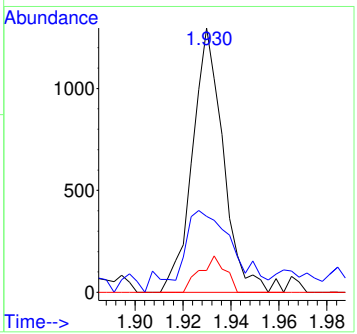


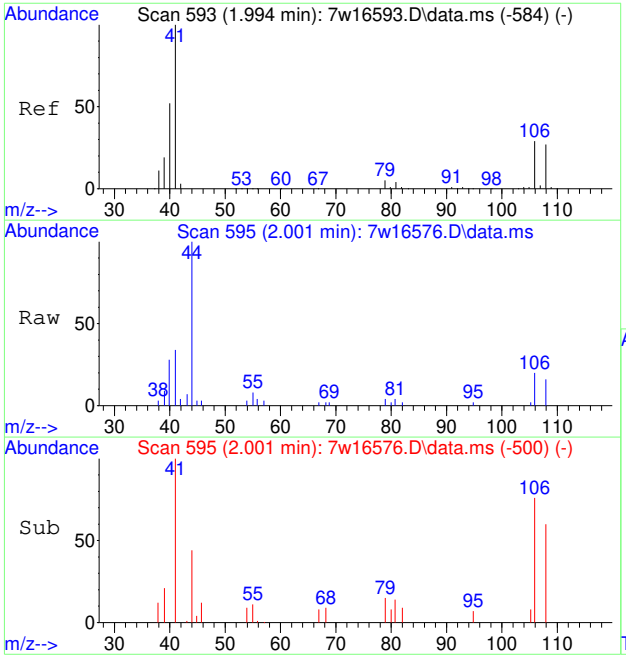


#16
DICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 1164

Ion	Ratio	Lower	Upper
67	100		
69	67.2	23.2	43.0#
47	11.3	9.6	17.8

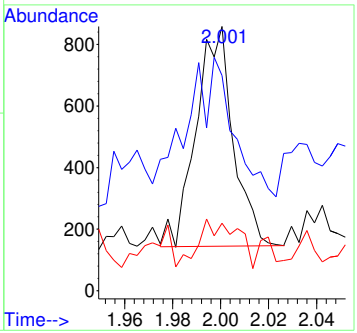


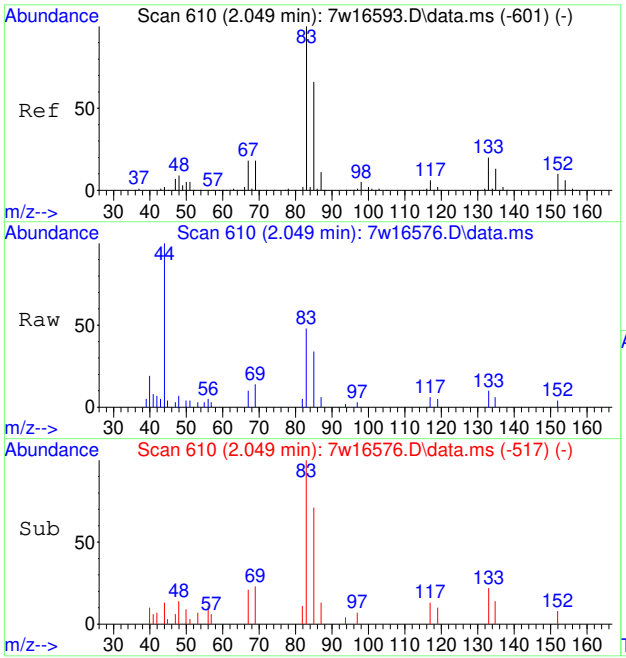


#17
ACETONITRILE
Concen: 0.06 PPBV
RT: 2.001 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 762

Ion	Ratio	Lower	Upper
41	100		
40	110.5	38.4	71.4#
39	23.4	14.5	26.9

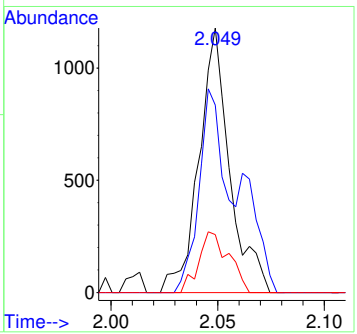


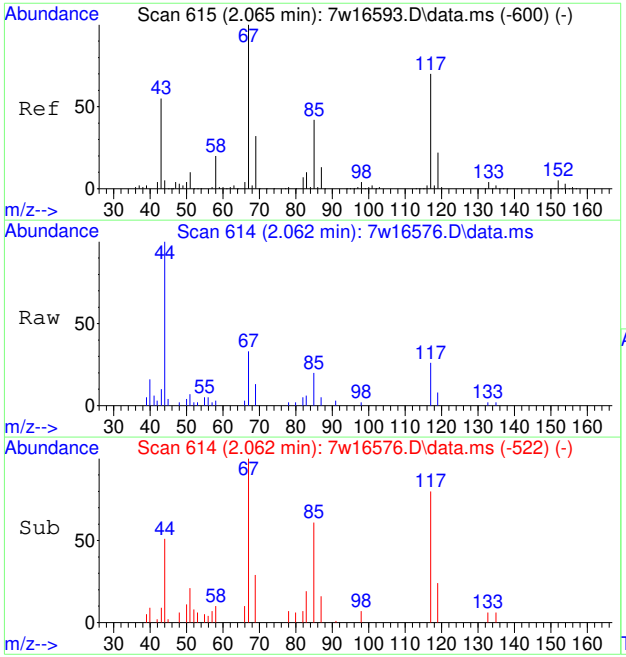


#19
FREON 123
Concen: 0.04 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1179

Ion	Ratio	Lower	Upper
83	100		
85	94.0	65.7	121.9
133	22.4	19.9	36.9

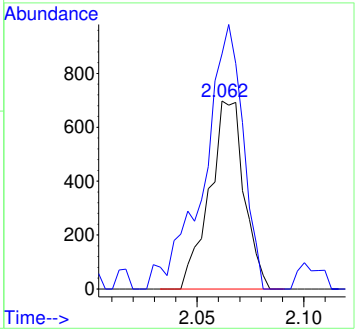


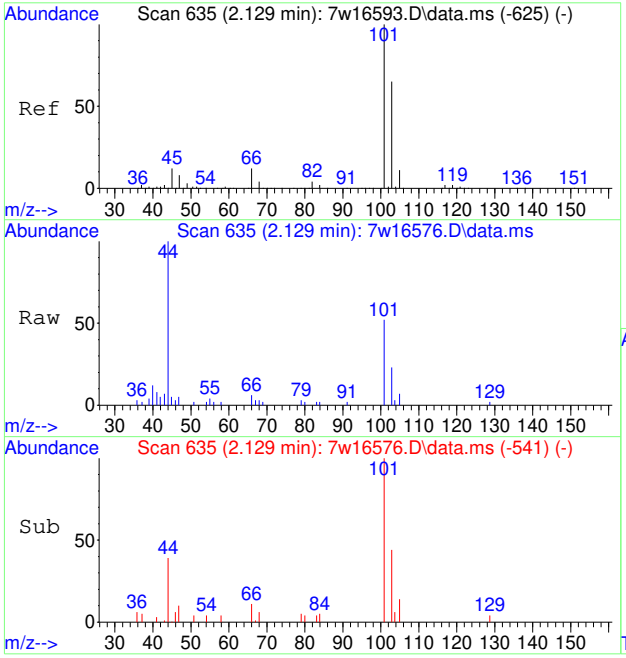


#20
FREON 123A
Concen: 0.05 PPBV
RT: 2.062 min Scan# 614
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 787

Ion	Ratio	Lower	Upper
117	100		
67	158.8	78.8	146.4#

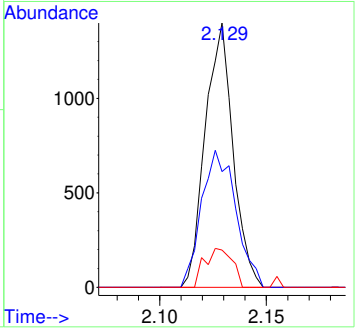


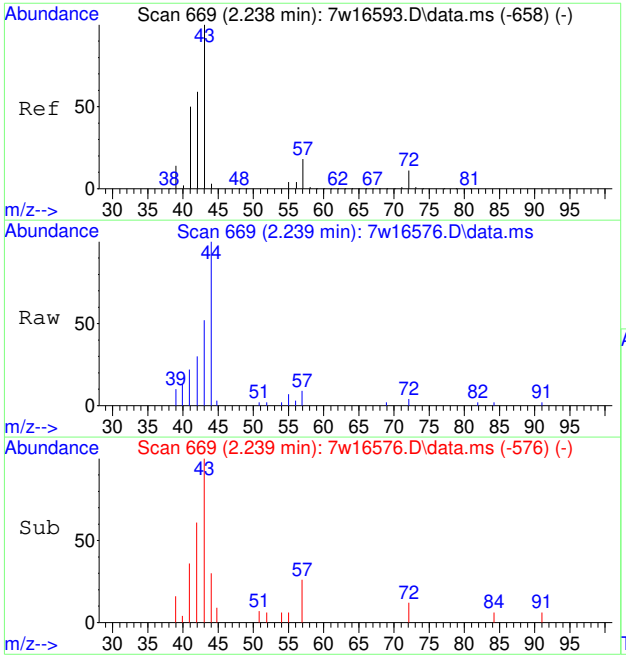


#21
TRICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:101 Resp: 1269

Ion	Ratio	Lower	Upper
101	100		
103	64.0	44.3	82.3
105	14.7	7.3	13.7#

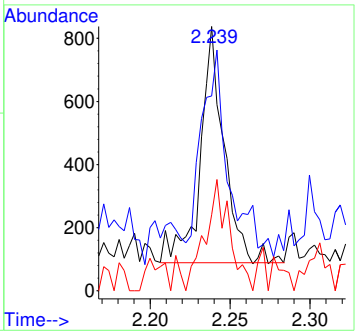


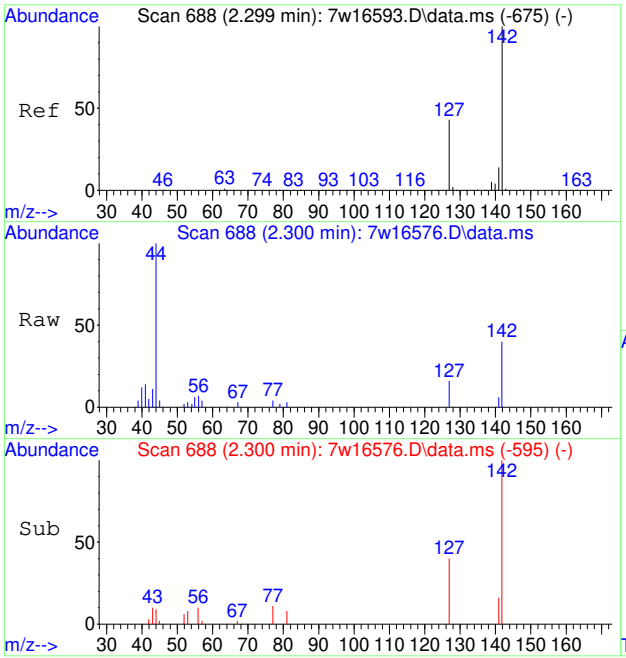


#24
PENTANE
Concen: 0.06 PPBV
RT: 2.239 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 42 Resp: 777

Ion	Ratio	Lower	Upper
42	100		
41	109.0	69.2	128.6
57	51.7	18.6	34.6#

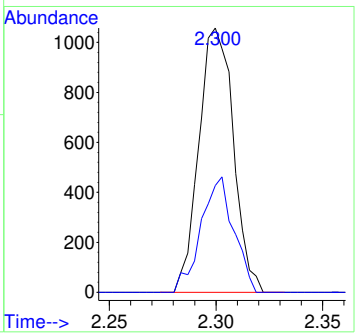


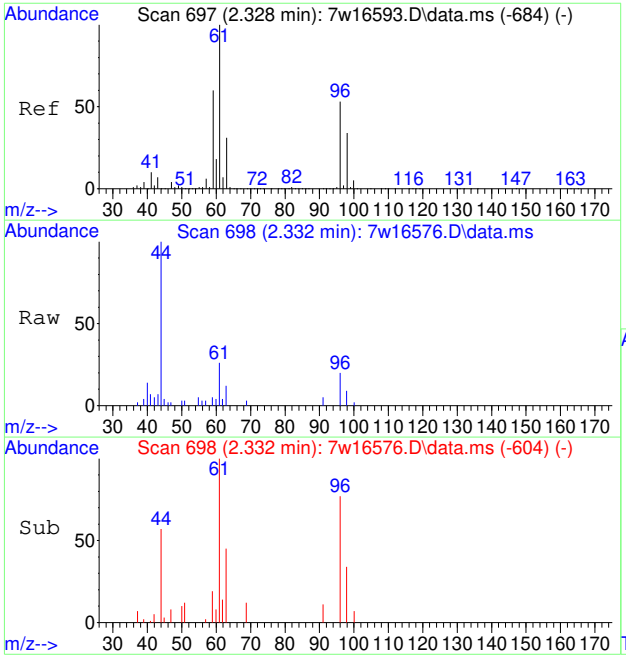


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:142 Resp: 1191

Ion	Ratio	Lower	Upper
142	100		
127	41.4	32.1	59.7

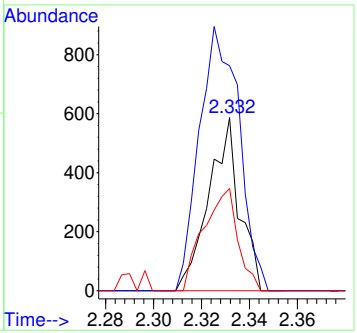


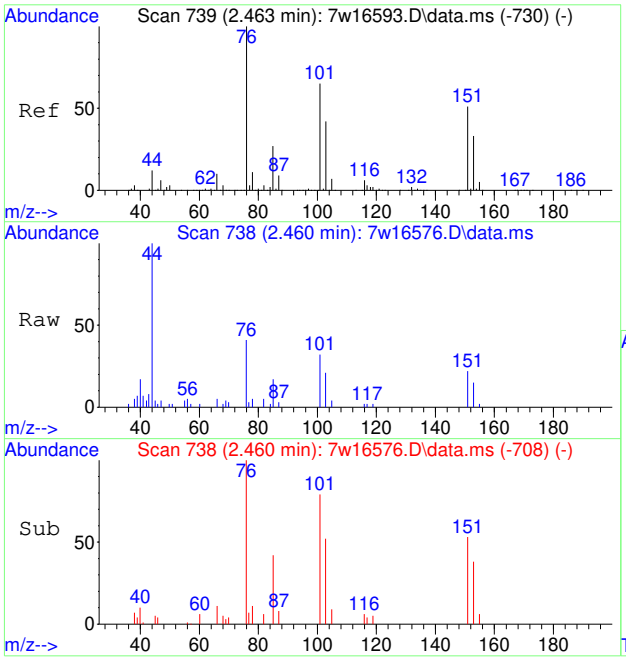


#26
1,1-DICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 2.332 min Scan# 698
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 522

Ion	Ratio	Lower	Upper
96	100		
61	196.4	98.3	182.5#
63	65.7	33.2	61.7#

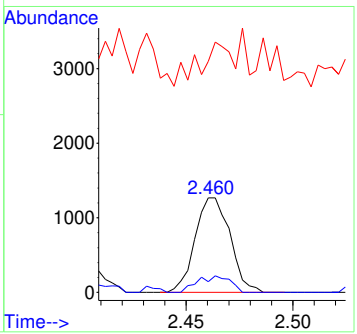


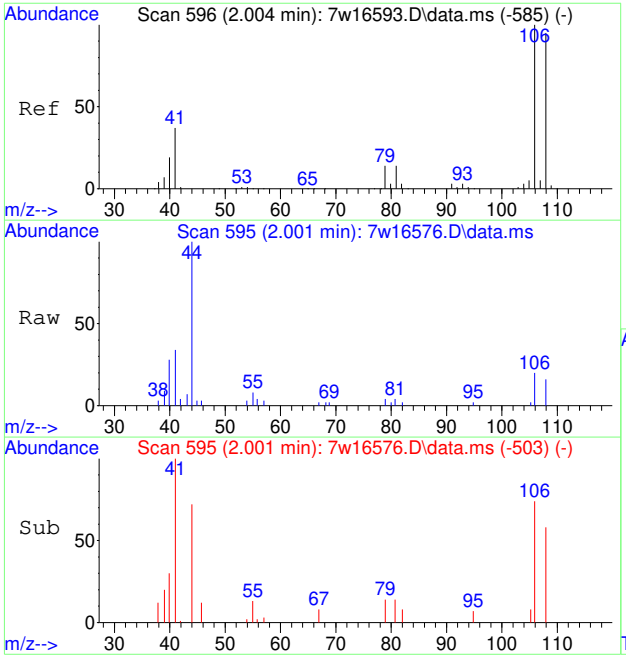


#27
CARBON DISULFIDE
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 1446

Ion	Ratio	Lower	Upper
76	100		
78	16.3	8.3	15.3#
44	85.3	13.0	24.1#

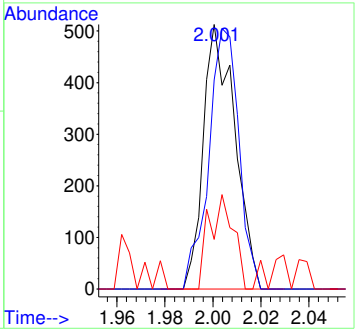


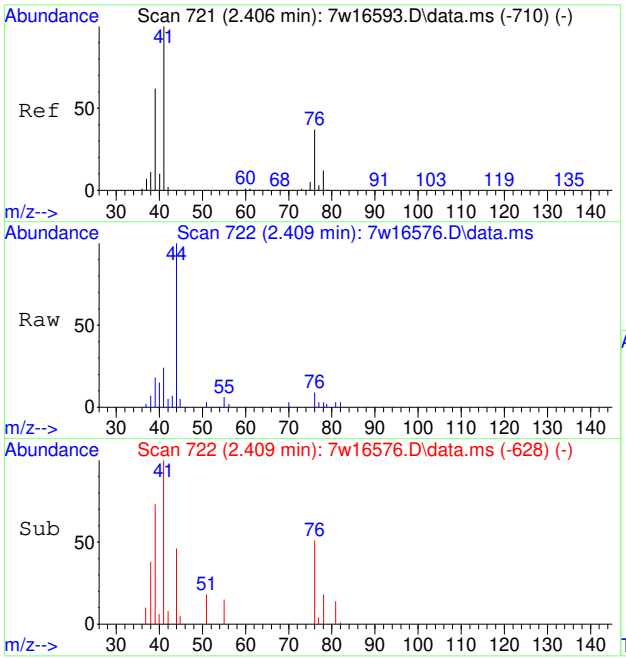


#29
BROMOETHENE
Concen: 0.04 PPBV
RT: 2.001 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:106 Resp: 466

Ion	Ratio	Lower	Upper
106	100		
108	94.2	68.3	126.8
81	29.8	14.7	27.3#

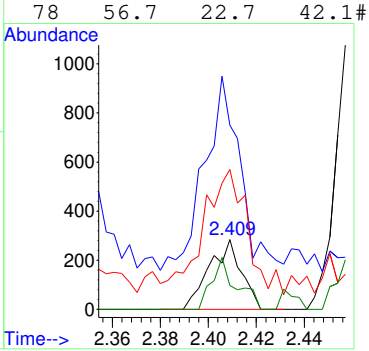


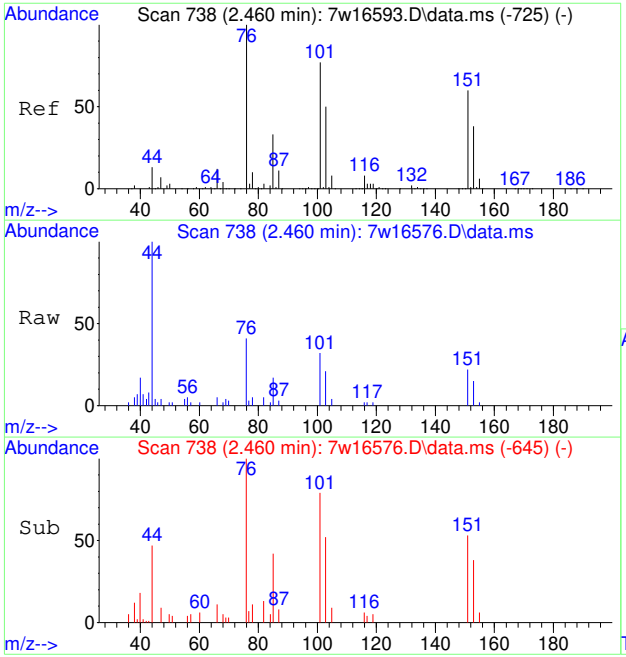


#32
3-CHLOROPROPENE
Concen: 0.04 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 263

Ion	Ratio	Lower	Upper
76	100		
41	309.5	160.9	298.9#
39	248.7	150.7	279.9
78	56.7	22.7	42.1#

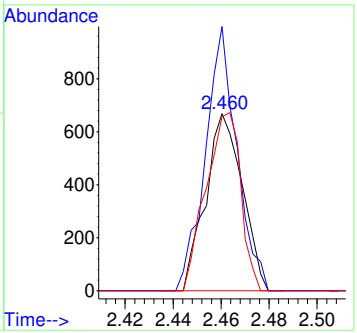


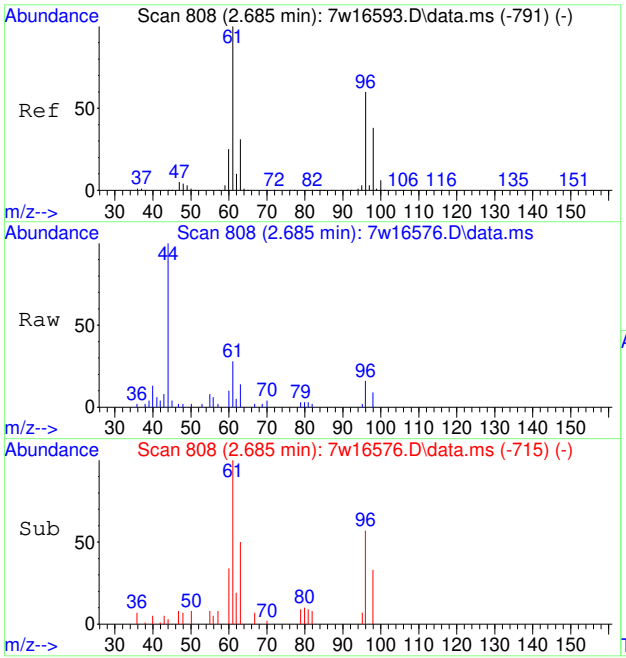


#33
FREON 113
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:151 Resp: 709

Ion	Ratio	Lower	Upper
151	100		
101	127.8	81.1	150.7
103	95.2	51.4	95.4

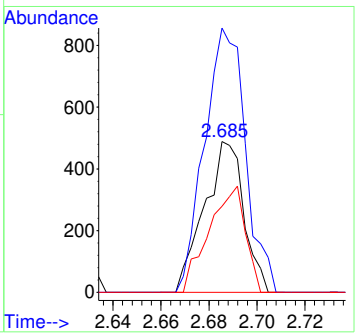


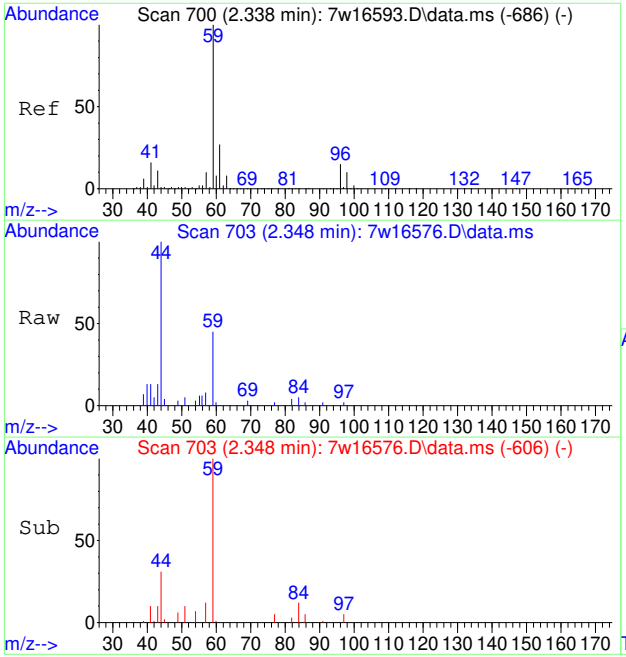


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 555

Ion	Ratio	Lower	Upper
96	100		
61	182.7	78.5	145.9#
98	65.2	46.5	86.3

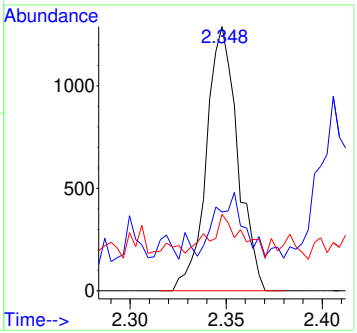


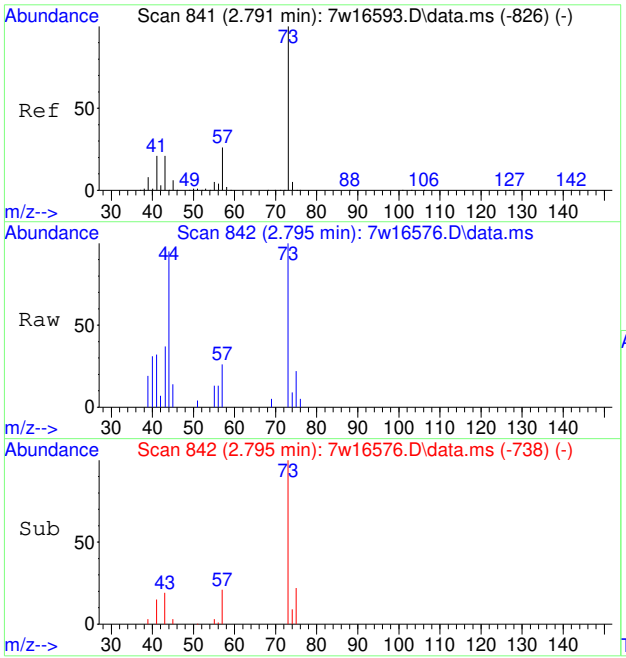


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.05 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 1458

Ion	Ratio	Lower	Upper
59	100		
41	32.6	15.3	28.5#
43	33.5	12.3	22.9#

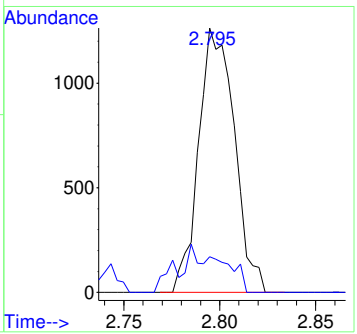


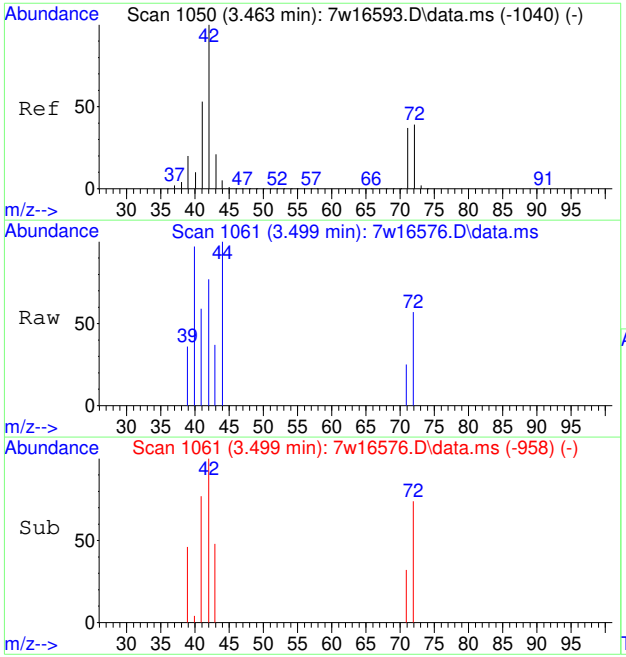


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.04 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 73 Resp: 1635

Ion	Ratio	Lower	Upper
73	100		
45	21.6	3.4	6.4#

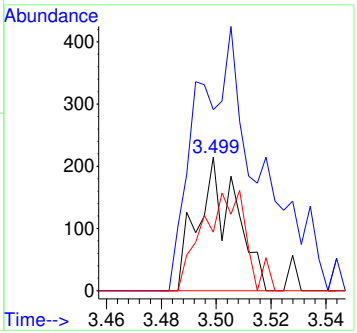


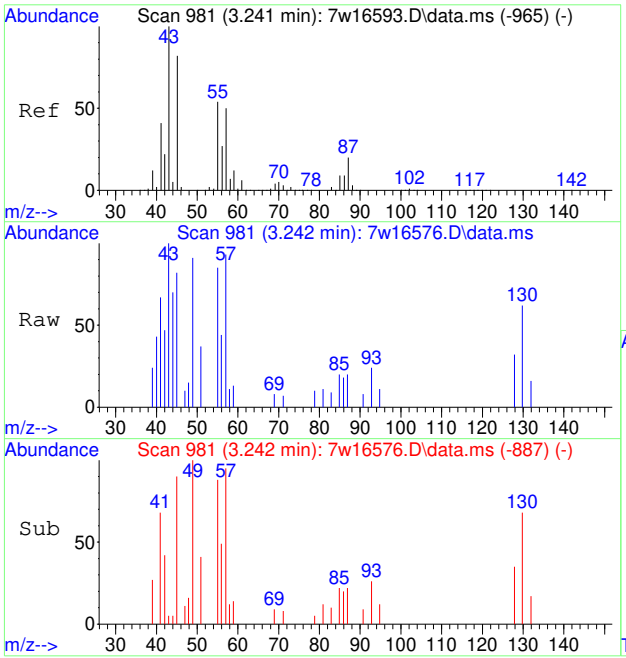


#37
TETRAHYDROFURAN
Concen: 0.03 PPBV
RT: 3.499 min Scan# 1061
Delta R.T. 0.032 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 205

Ion	Ratio	Lower	Upper
72	100		
42	334.1	153.0	284.2#
71	85.9	62.7	116.5

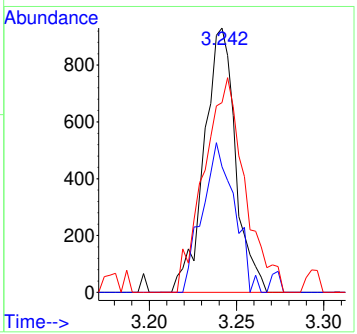


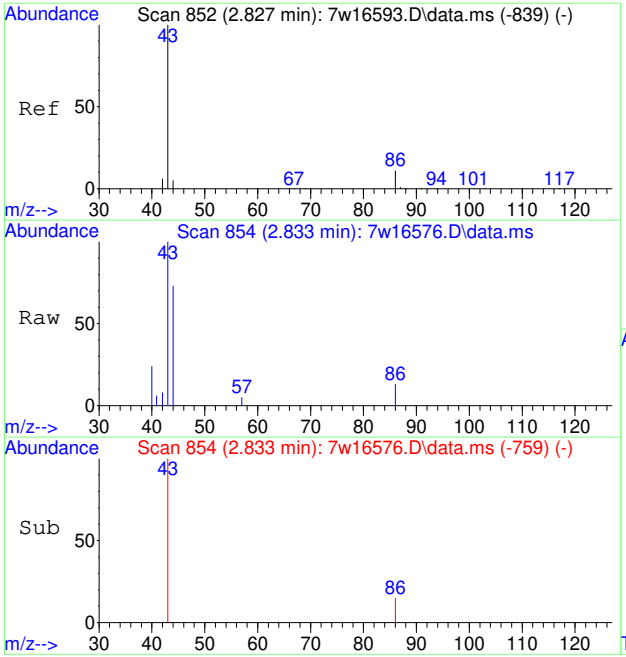


#38
HEXANE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1163

Ion	Ratio	Lower	Upper
57	100		
56	58.0	37.3	69.3
41	105.6	86.7	161.1

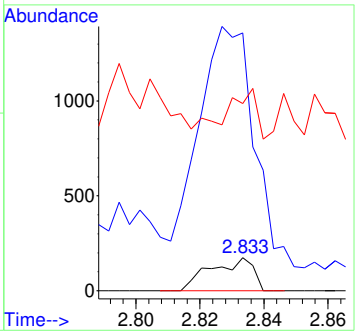


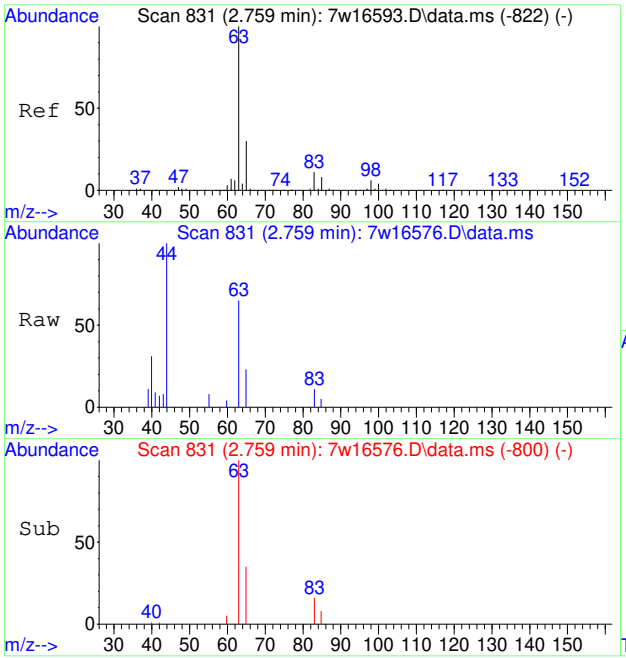


#39
VINYL ACETATE
Concen: 0.05 PPBV
RT: 2.833 min Scan# 854
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 86 Resp: 161

Ion	Ratio	Lower	Upper
86	100		
43	1339.1	667.9	1240.3#
44	80.7	32.7	60.7#

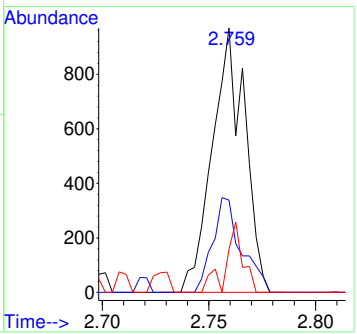


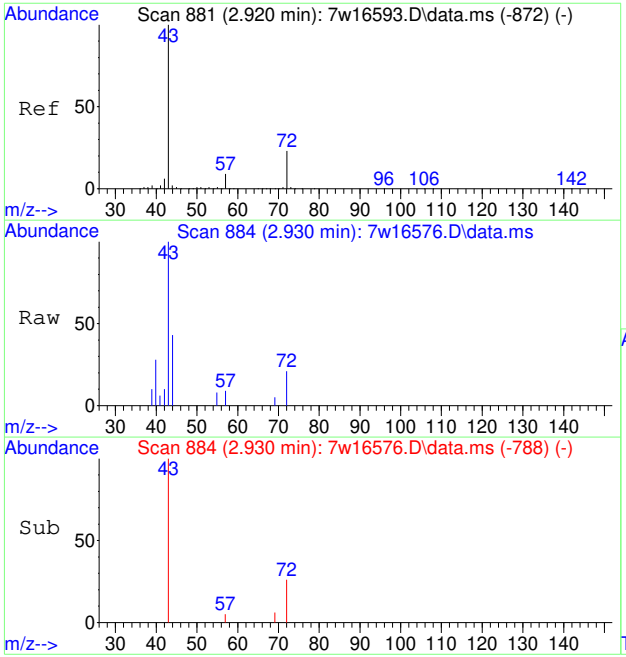


#40
1,1-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 1028

Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.8	40.6
83	14.1	10.6	19.6

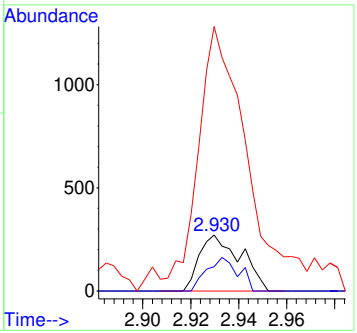


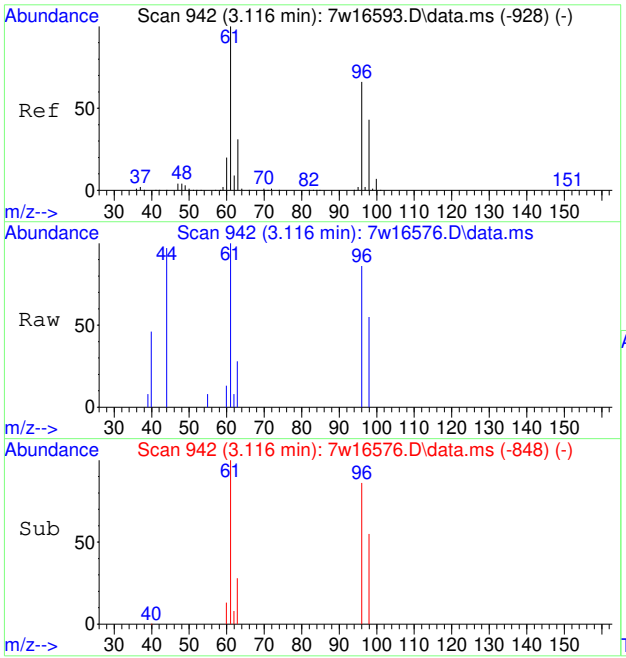


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV
RT: 2.930 min Scan# 884
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 323

Ion	Ratio	Lower	Upper
72	100		
57	45.8	20.3	37.7#
43	590.4	282.8	525.2#

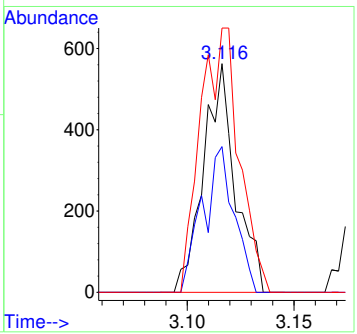


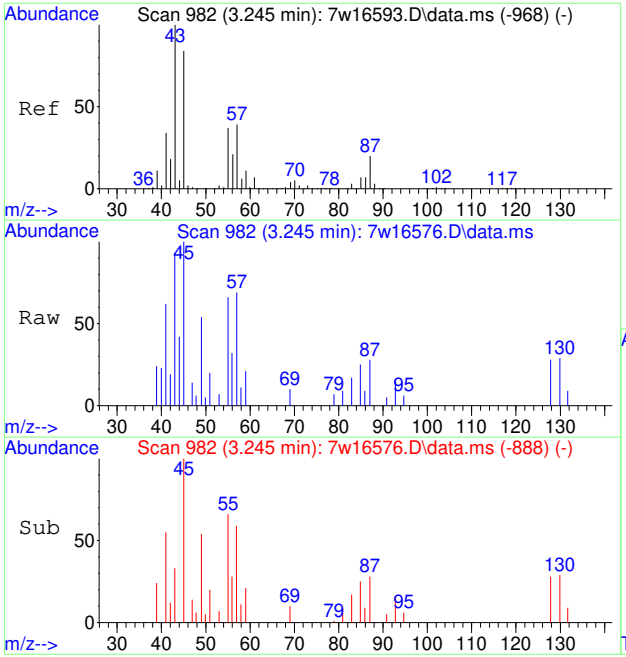


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 586

Ion	Ratio	Lower	Upper
96	100		
98	63.0	46.8	86.8
61	140.8	78.3	145.5

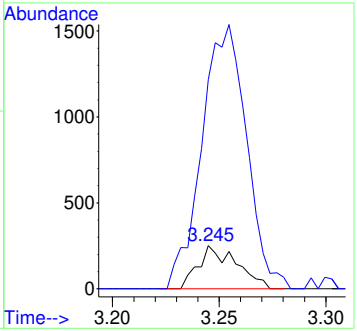


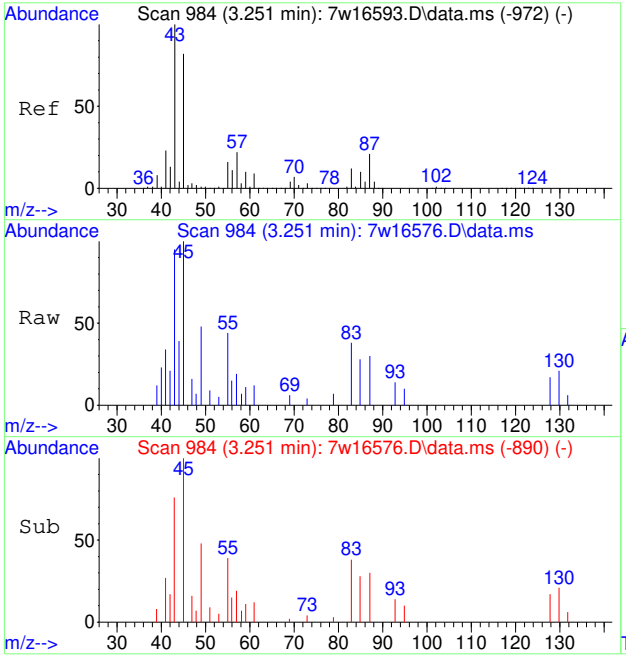


#43
DIISOPROPYL ETHER
Concen: 0.05 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 314

Ion	Ratio	Lower	Upper
59	100		
45	714.3	532.1	988.1

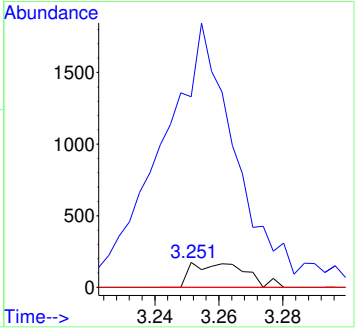


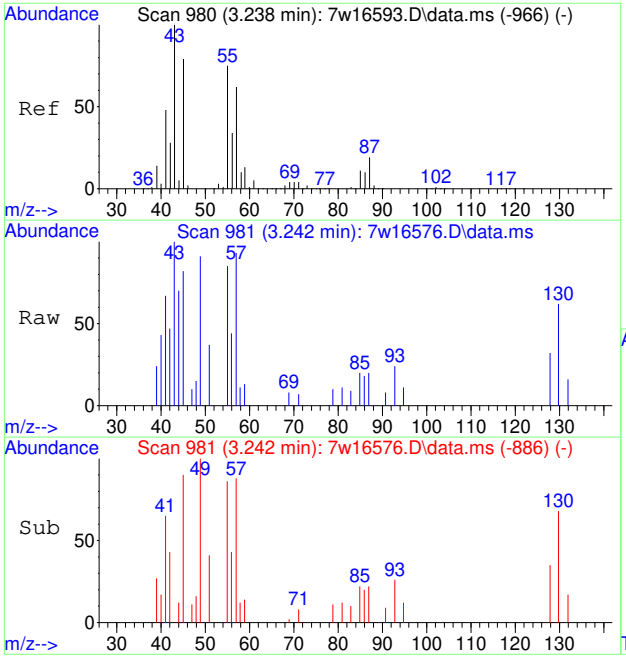


#44
ETHYL ACETATE
Concen: 0.04 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 61 Resp: 203

Ion	Ratio	Lower	Upper
61	100		
43	1613.8	1127.5	2093.9
88	0.0	36.2	67.2#

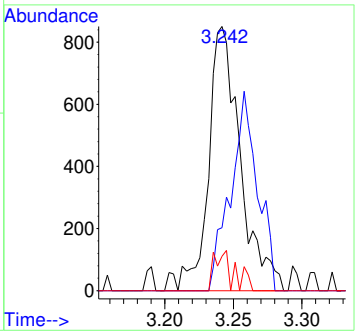


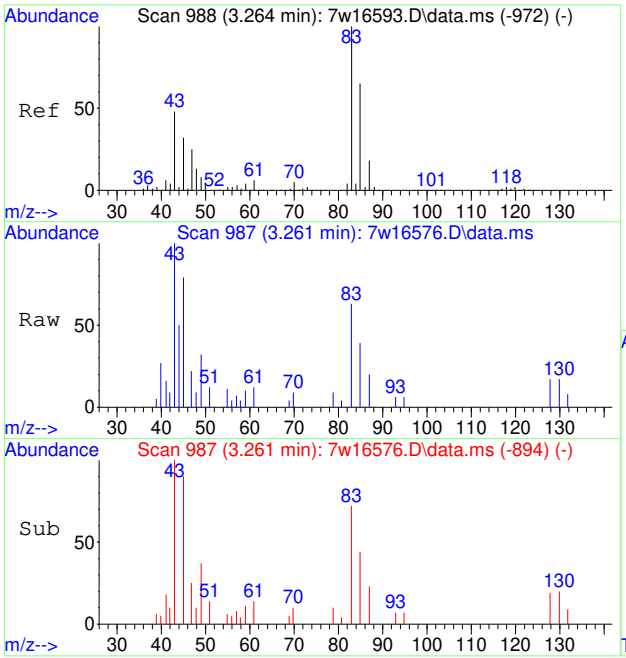


#45
METHYL ACRYLATE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1383

Ion	Ratio	Lower	Upper
55	100		
85	63.6	0.0	0.0#
58	7.4	9.2	17.0#

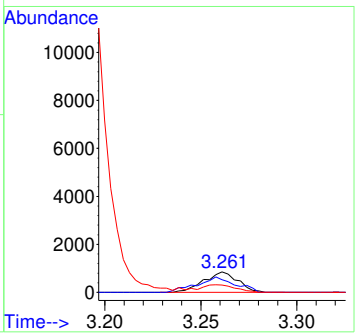


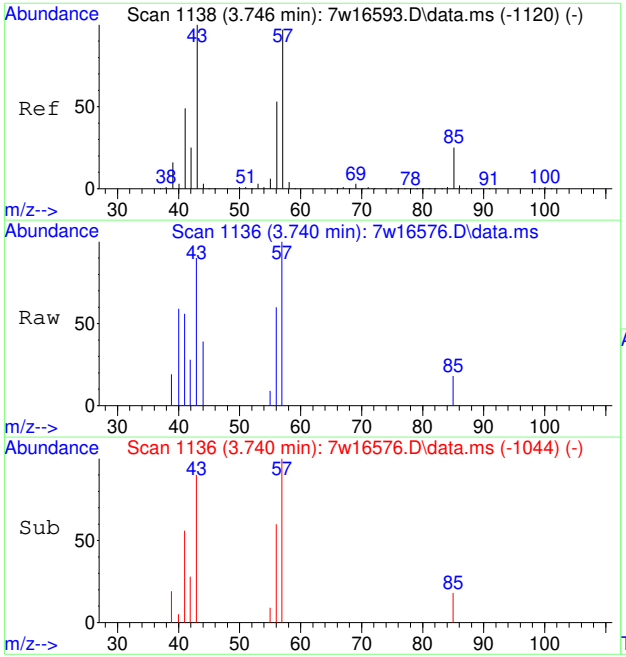


#46
CHLOROFORM
Concen: 0.04 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1053

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	44.6	17.9	33.3#

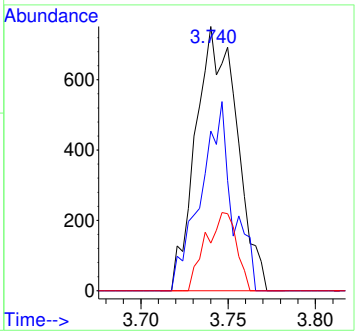


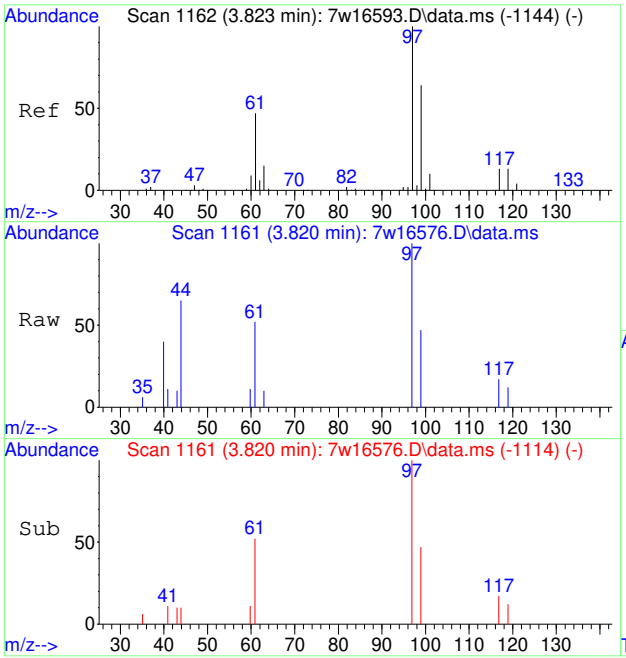


#47
2,4-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1228

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	22.1	24.1	44.7#

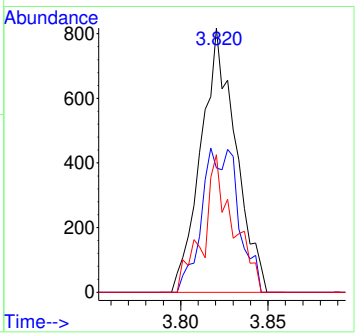


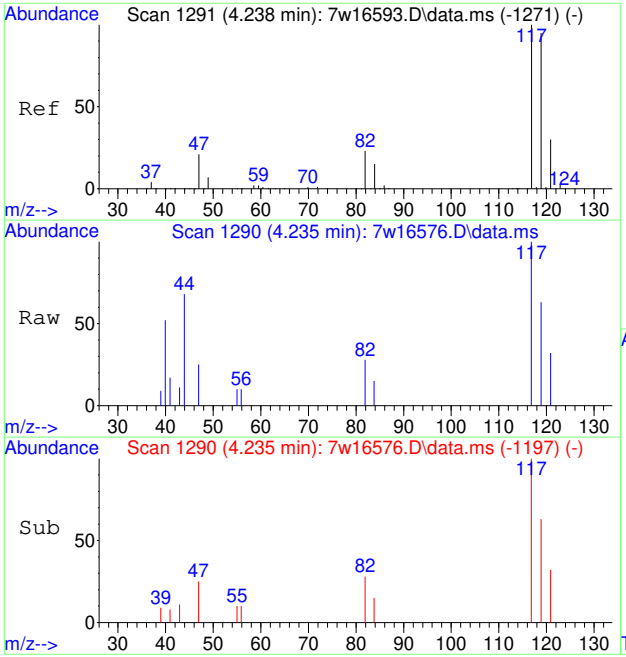


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 97 Resp: 1132

Ion	Ratio	Lower	Upper
97	100		
99	57.4	44.9	83.5
61	44.7	28.6	53.0

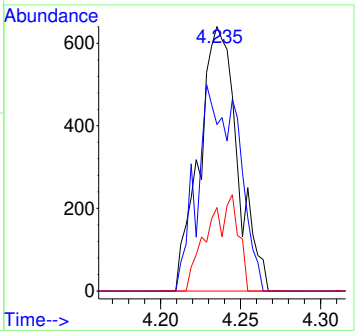


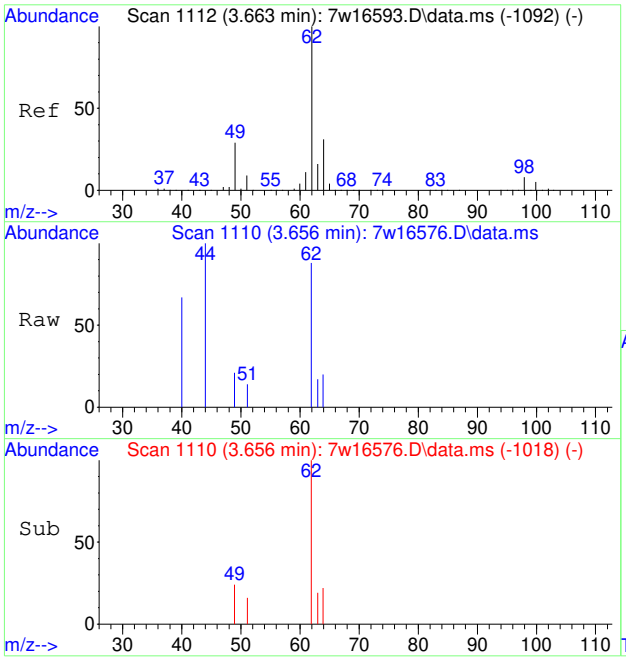


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 1061

Ion	Ratio	Lower	Upper
117	100		
119	83.8	68.8	127.8
121	29.1	22.2	41.2

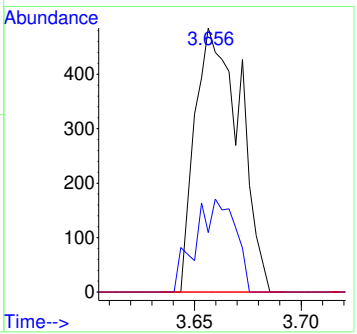


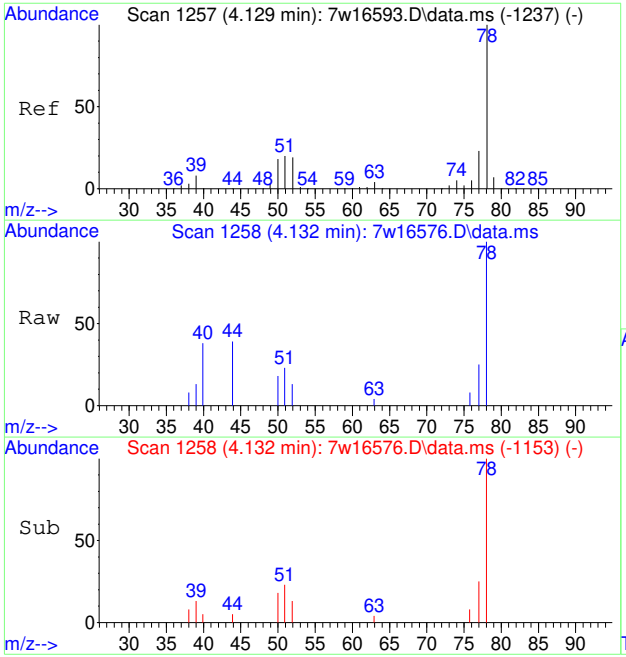


#50
1,2-DICHLOROETHANE
Concen: 0.03 PPBV
RT: 3.656 min Scan# 1110
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 712

Ion	Ratio	Lower	Upper
62	100		
64	31.3	22.5	41.7
98	0.0	6.8	12.6#

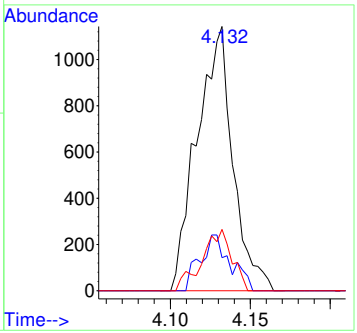


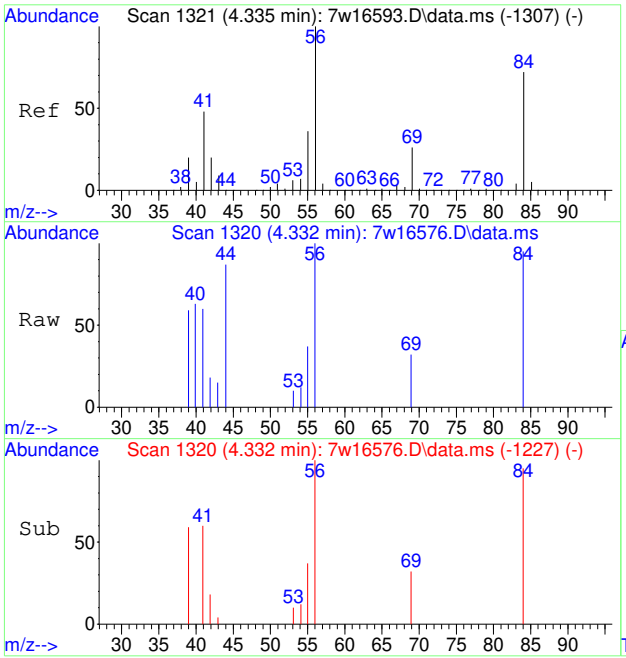


#51
BENZENE
Concen: 0.05 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 78 Resp: 1781

Ion	Ratio	Lower	Upper
78	100		
52	17.9	0.0	44.6
51	19.4	0.0	47.3

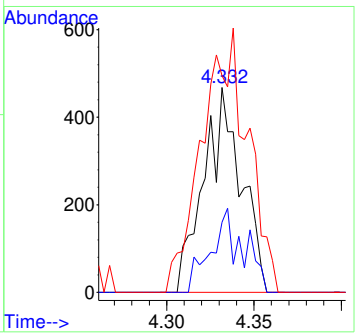


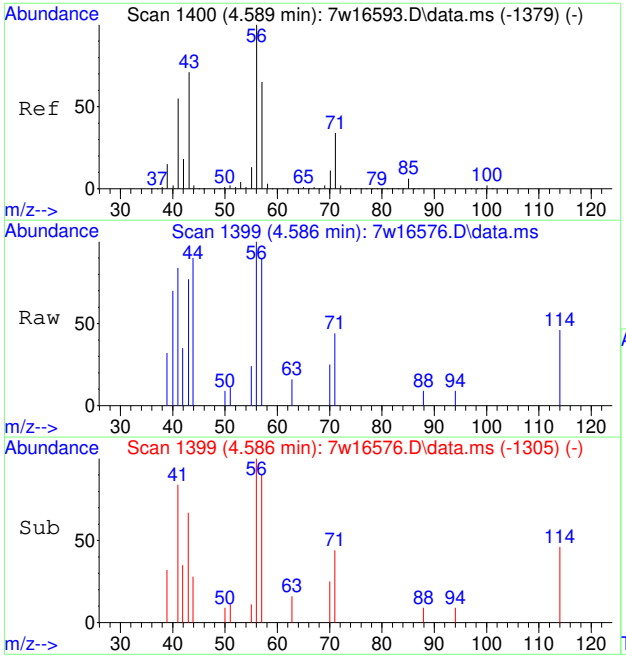


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 84 Resp: 700

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	156.6	70.2	130.4#

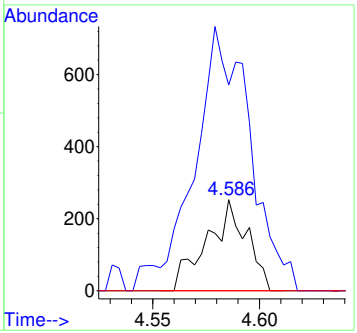


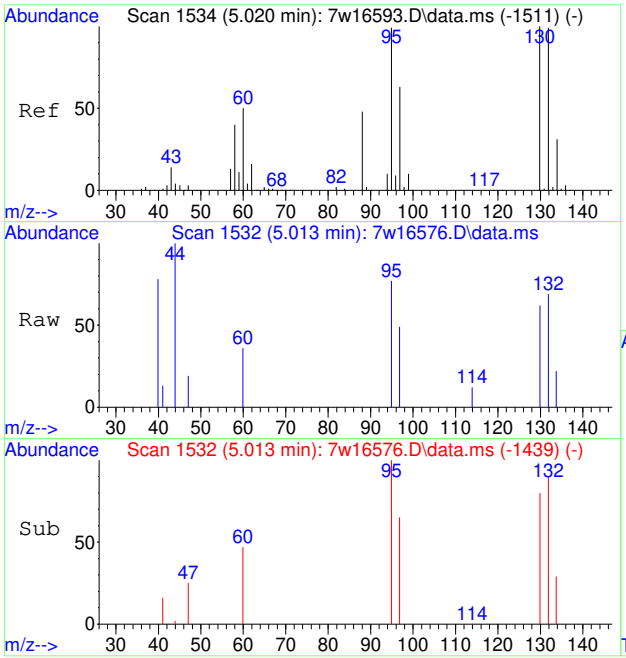


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 71 Resp: 330

Ion	Ratio	Lower	Upper
71	100		
56	412.7	171.4	318.4#
85	0.0	12.6	23.4#

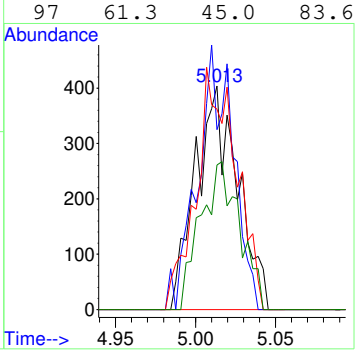


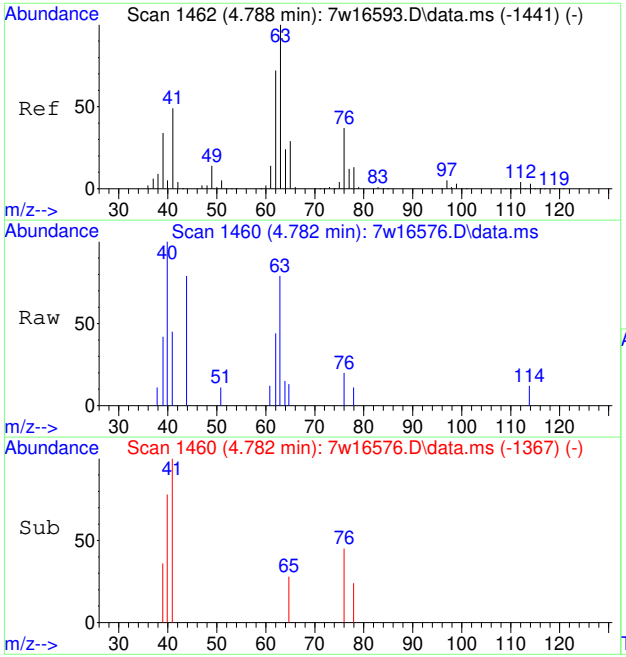


#55
TRICHLOROETHENE
Concen: 0.04 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 95 Resp: 741

Ion	Ratio	Lower	Upper
95	100		
130	98.4	85.9	159.5
132	101.9	79.4	147.4
97	61.3	45.0	83.6

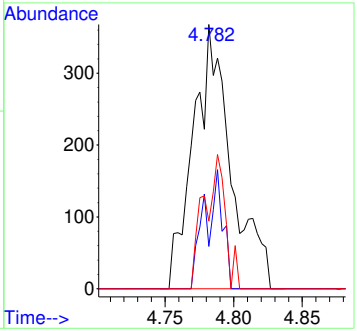


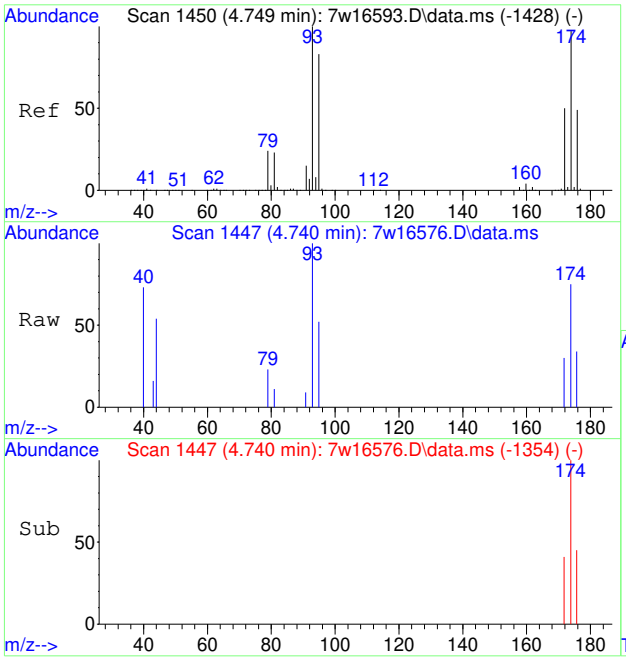


#56
1,2-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 703

Ion	Ratio	Lower	Upper
63	100		
65	21.5	22.6	42.0#
76	28.7	31.8	59.0#

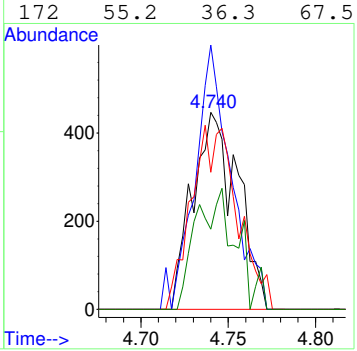


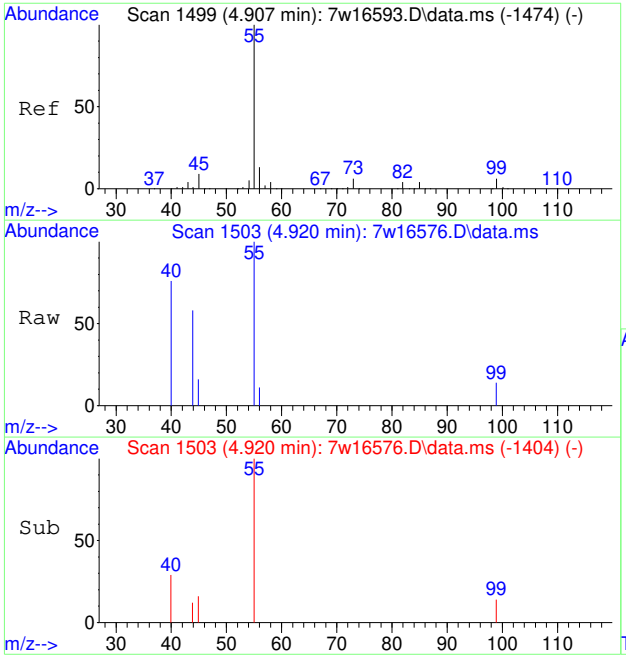


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:174 Resp: 802

Ion	Ratio	Lower	Upper
174	100		
93	108.0	67.3	125.1
95	95.5	56.8	105.6
172	55.2	36.3	67.5

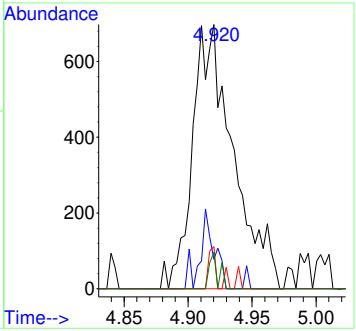


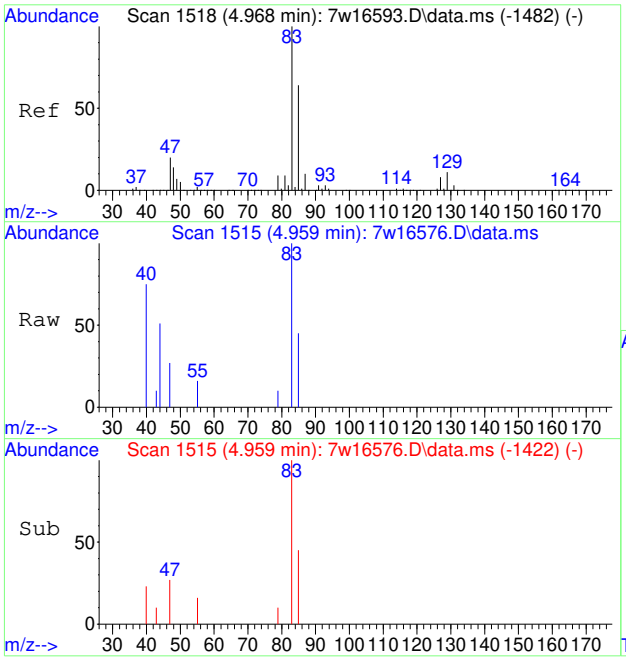


#58
ETHYL ACRYLATE
Concen: 0.04 PPBV
RT: 4.920 min Scan# 1503
Delta R.T. 0.020 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1547

Ion	Ratio	Lower	Upper
55	100		
56	10.5	7.9	14.7
45	4.1	6.6	12.2#
99	0.0	6.2	11.6#

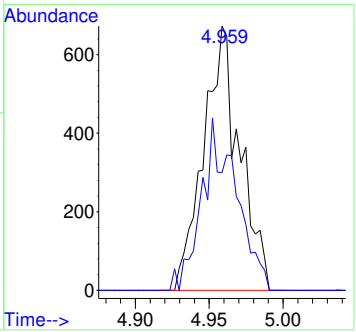


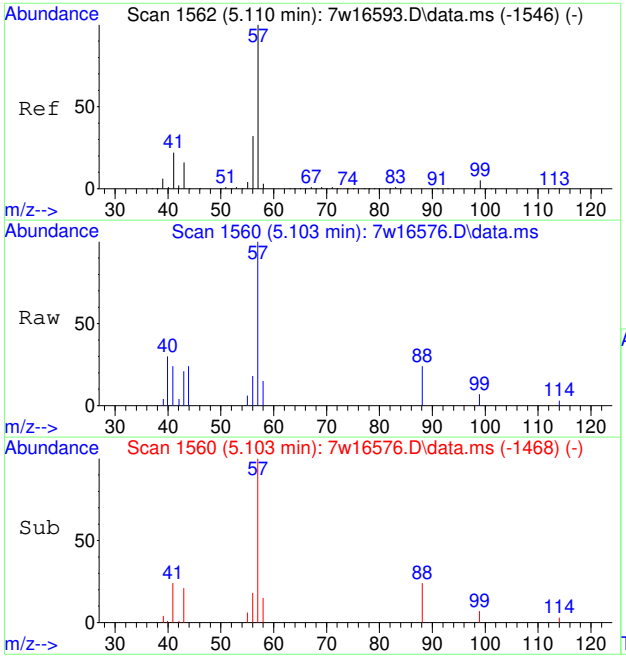


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1145

Ion	Ratio	Lower	Upper
83	100		
85	62.1	44.9	83.5

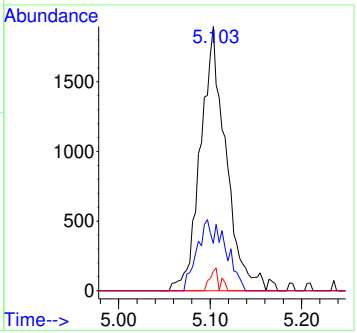


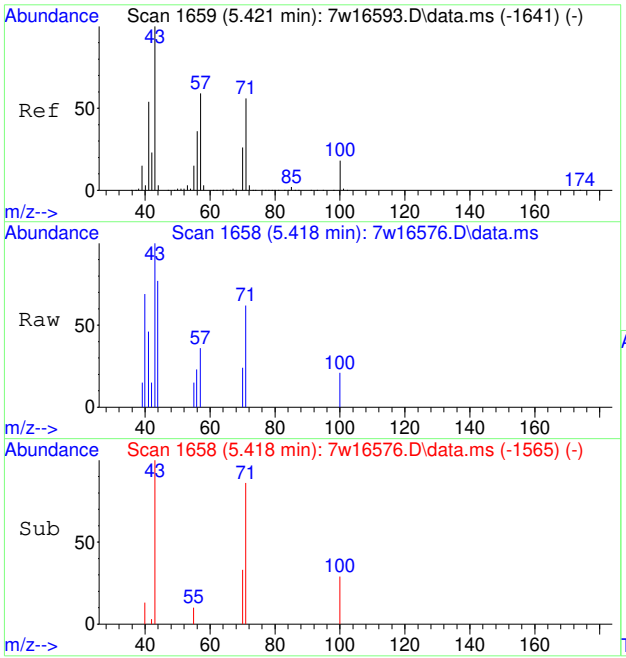


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 3683

Ion	Ratio	Lower	Upper
57	100		
56	29.4	24.4	45.2
99	3.2	5.2	9.6#

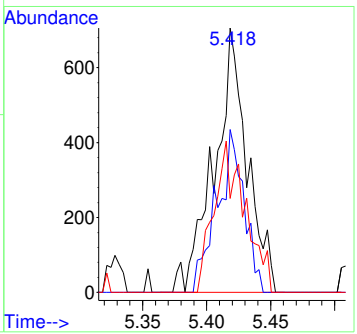


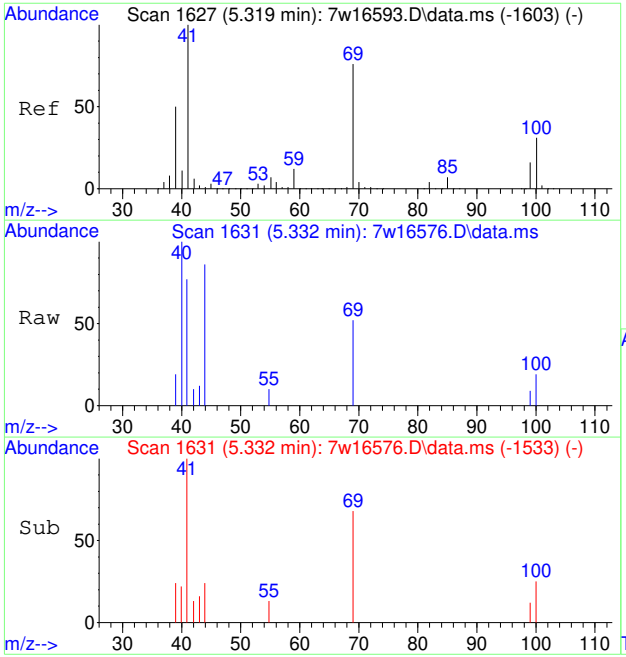


#62
HEPTANE
Concen: 0.05 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1262

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	54.4	37.2	69.0

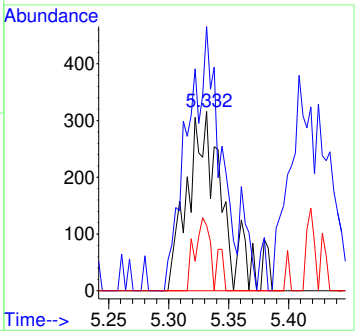


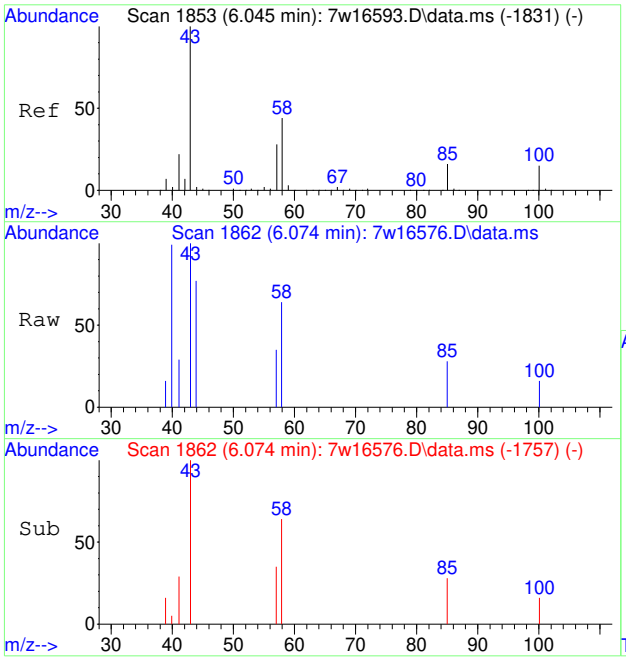


#63
METHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 5.332 min Scan# 1631
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 659

Ion	Ratio	Lower	Upper
69	100		
41	150.2	84.3	156.5
100	20.9	30.8	57.2#

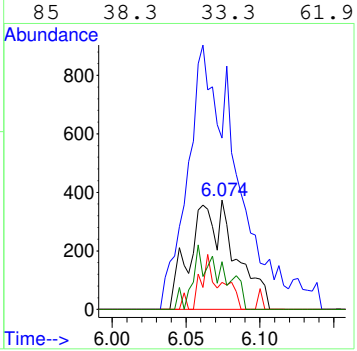


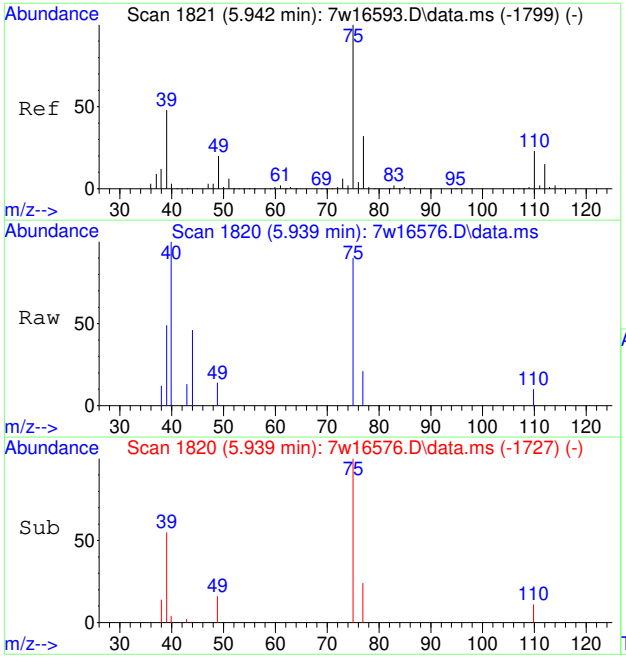


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 6.074 min Scan# 1862
Delta R.T. 0.039 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 776

Ion	Ratio	Lower	Upper
58	100		
43	276.2	193.8	360.0
100	23.3	32.8	60.8#
85	38.3	33.3	61.9

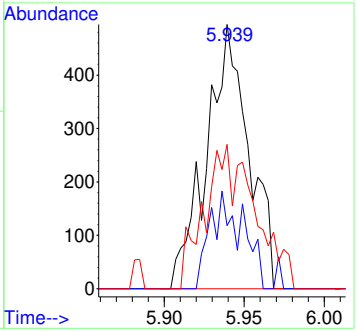


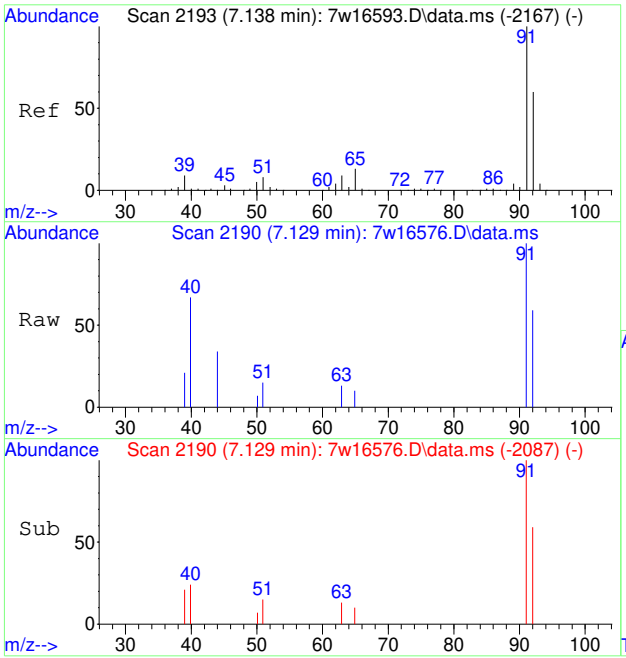


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 908

Ion	Ratio	Lower	Upper
75	100		
77	28.3	22.0	40.8
39	65.5	38.5	71.5

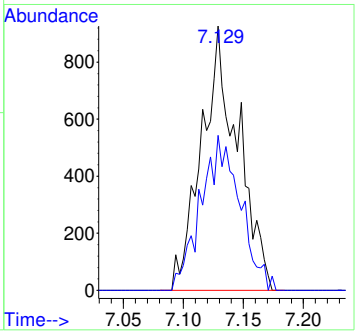


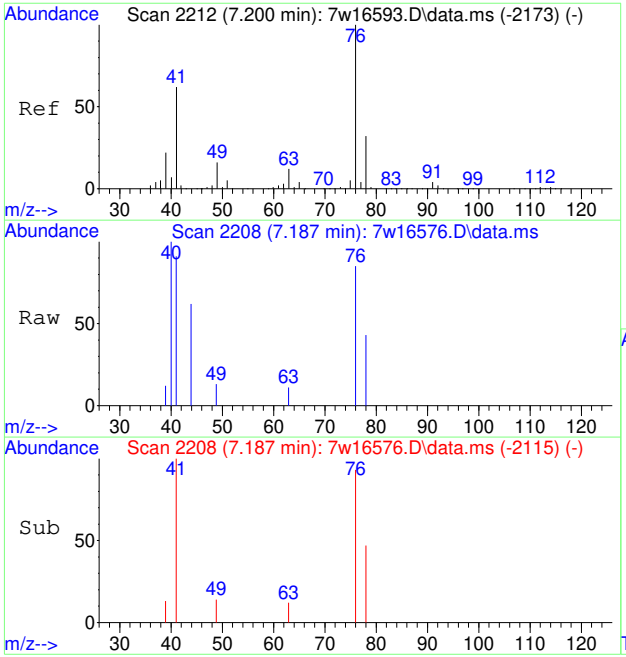


#66
TOLUENE
Concen: 0.04 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1961

Ion	Ratio	Lower	Upper
91	100		
92	62.6	28.1	88.1

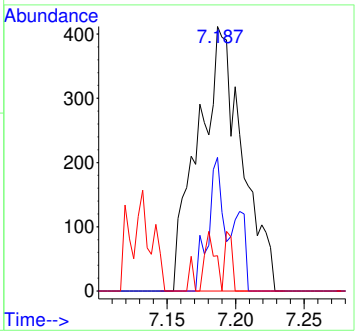


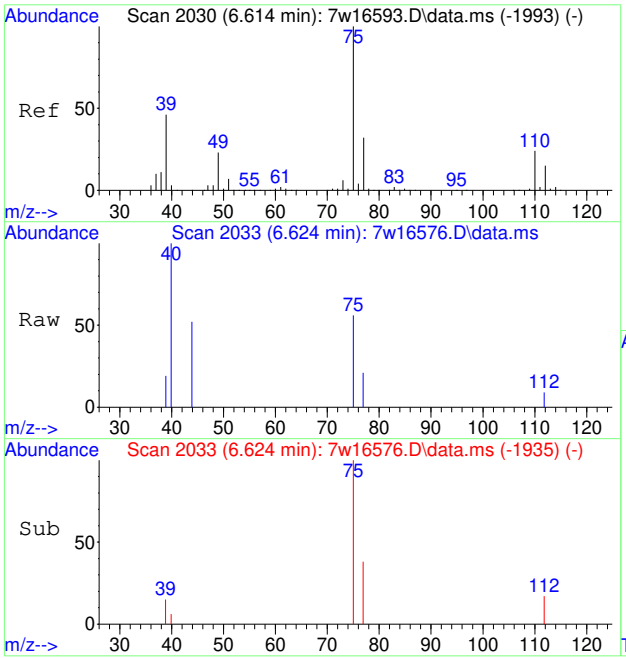


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 917

Ion	Ratio	Lower	Upper
76	100		
78	26.3	22.1	41.1
63	6.5	8.0	14.8#

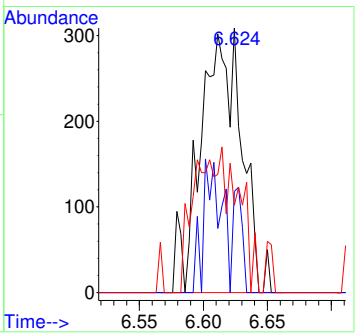


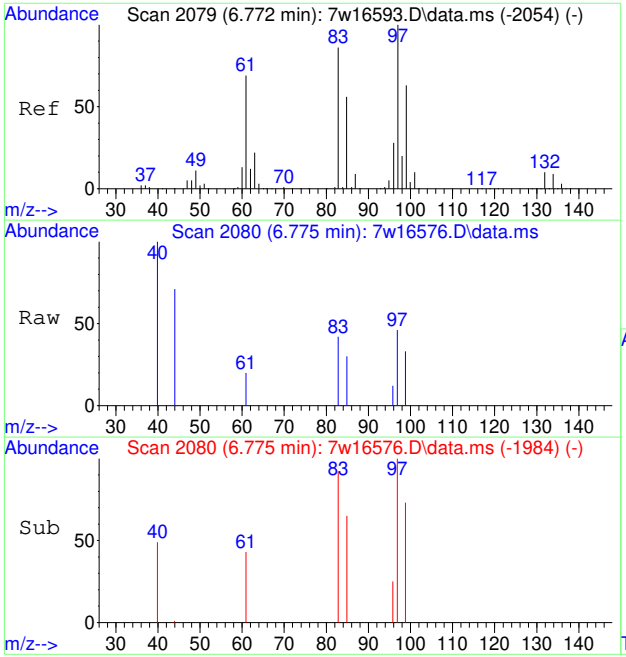


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 6.624 min Scan# 2033
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 685

Ion	Ratio	Lower	Upper
75	100		
77	0.0	22.5	41.7#
39	59.0	37.2	69.0

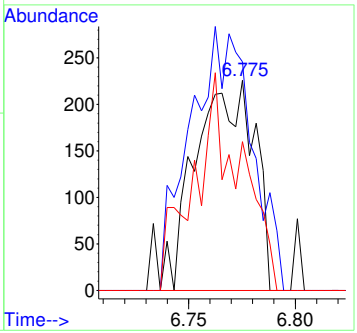


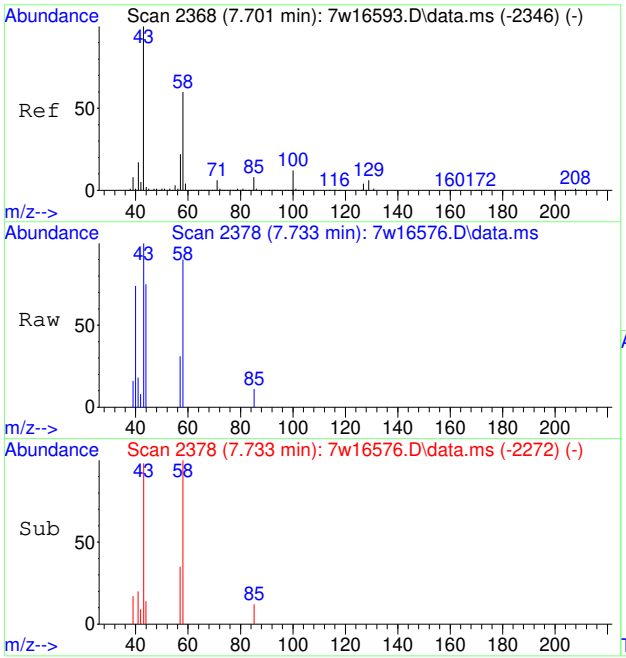


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 6.775 min Scan# 2080
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 432

Ion	Ratio	Lower	Upper
83	100		
97	131.5	86.7	160.9
85	82.9	45.5	84.5

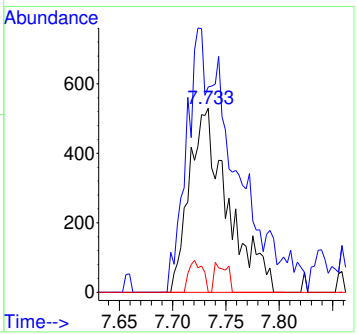


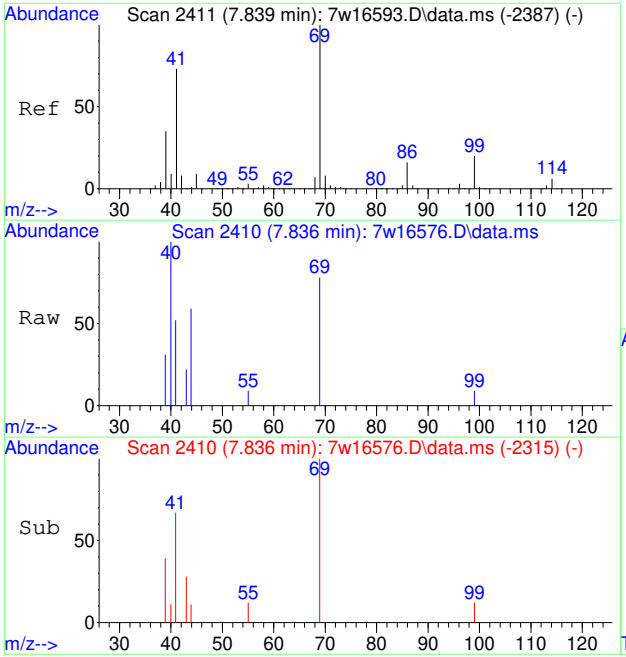


#70
2-HEXANONE
Concen: 0.06 PPBV
RT: 7.733 min Scan# 2378
Delta R.T. 0.042 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 1334

Ion	Ratio	Lower	Upper
58	100		
43	0.0	141.7	263.3#
100	5.2	18.9	35.1#

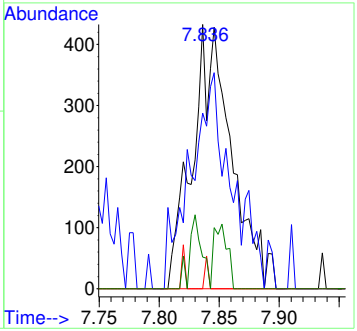


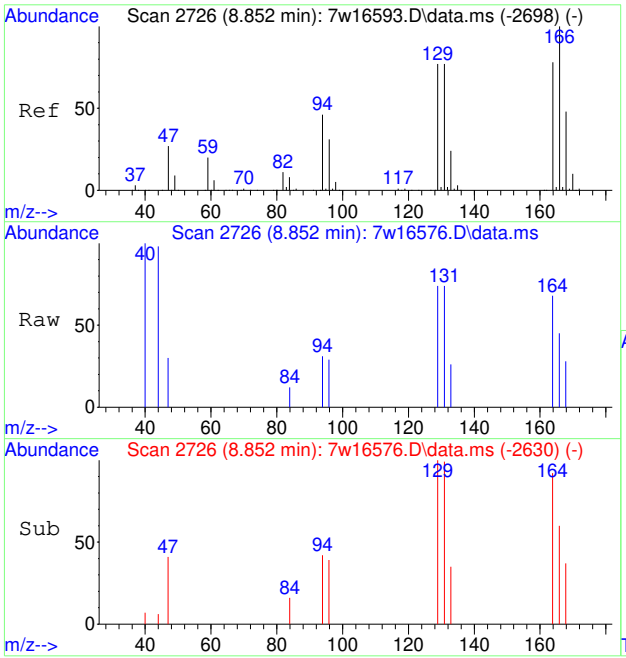


#71
ETHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 991

Ion	Ratio	Lower	Upper
69	100		
41	0.0	49.3	91.6#
86	0.0	11.6	21.6#
99	8.7	13.4	24.8#

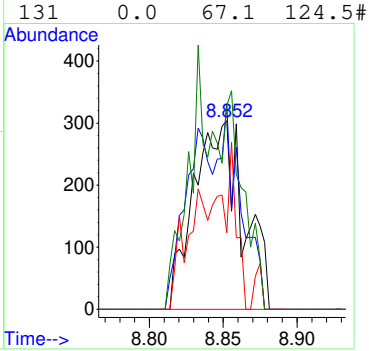


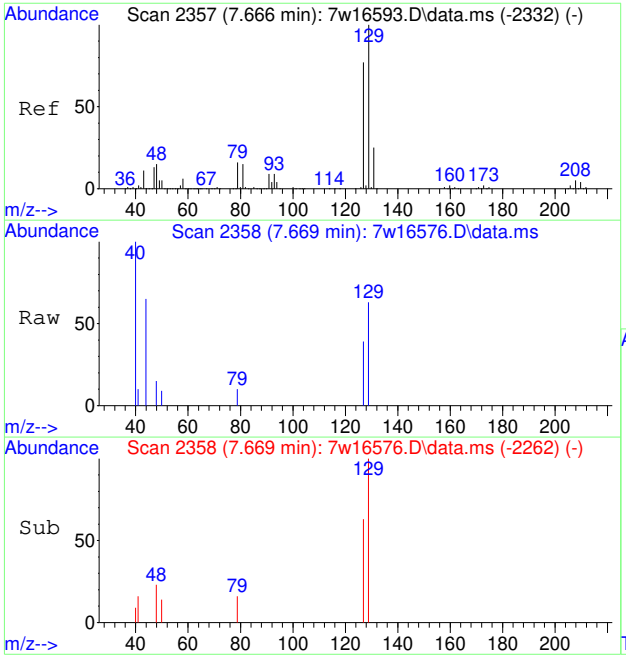


#72
TETRACHLOROETHENE
Concen: 0.04 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:164 Resp: 707

Ion	Ratio	Lower	Upper
164	100		
129	101.7	69.7	129.5
168	63.5	43.4	80.6
131	0.0	67.1	124.5#

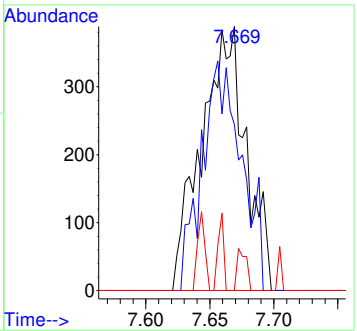


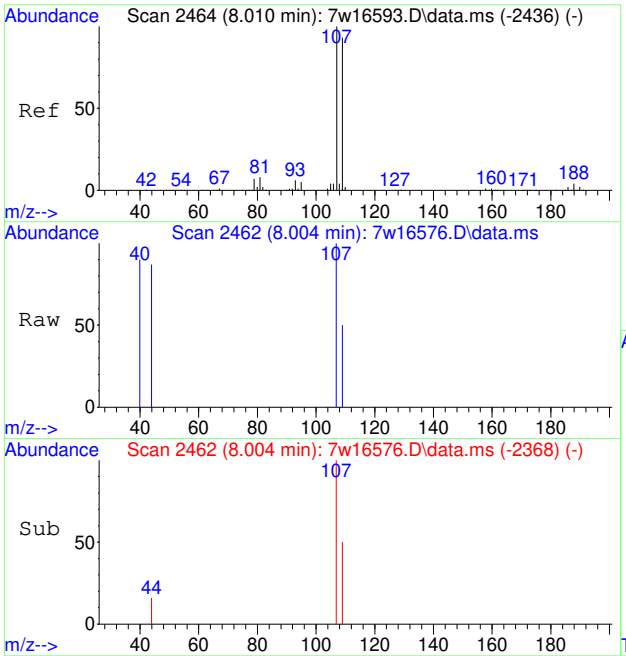


#73
DIBROMOCHLOROMETHANE
Concen: 0.03 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:129 Resp: 938

Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.0	98.4#
131	0.0	16.9	31.3#

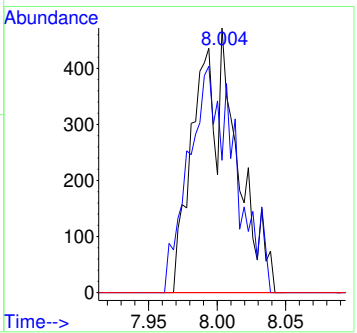


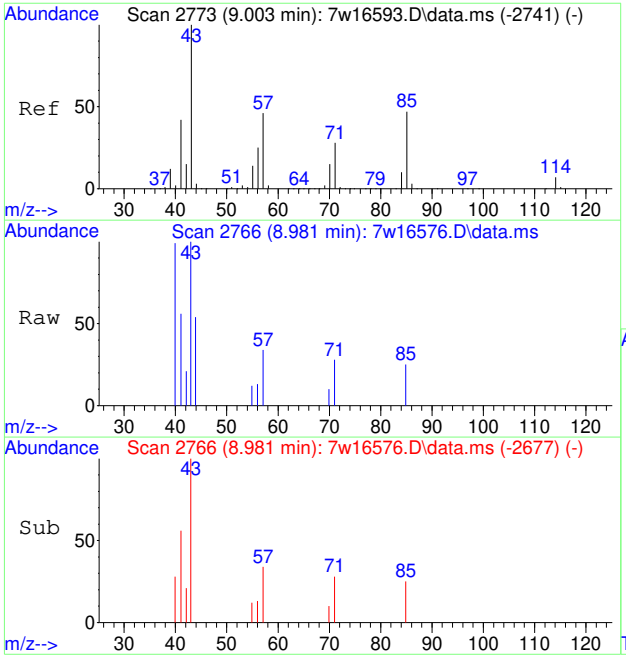


#74
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 8.004 min Scan# 2462
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:107 Resp: 998

Ion	Ratio	Lower	Upper
107	100		
109	95.5	65.7	122.1
188	0.0	2.4	4.4#

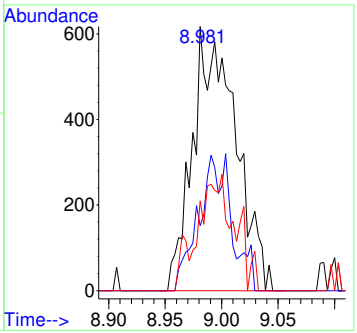


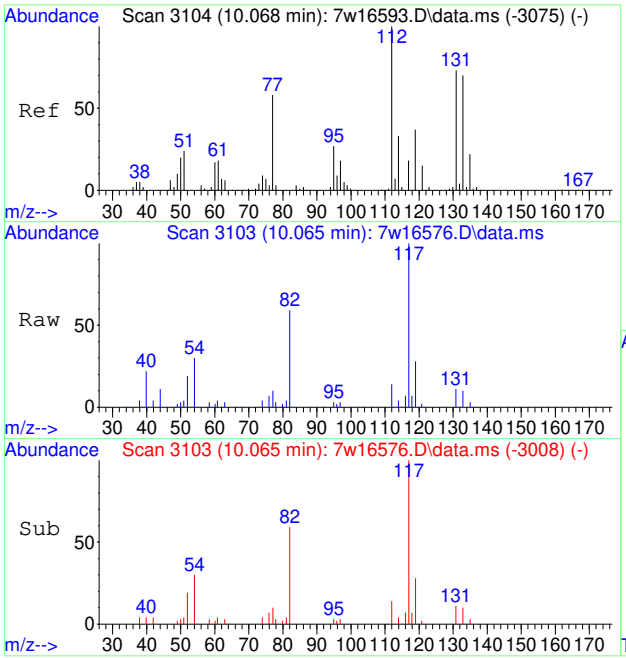


#75
OCTANE
Concen: 0.04 PPBV
RT: 8.981 min Scan# 2766
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1632

Ion	Ratio	Lower	Upper
43	100		
85	0.0	36.5	67.9#
57	0.0	27.6	51.2#

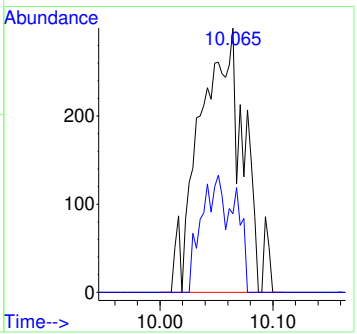


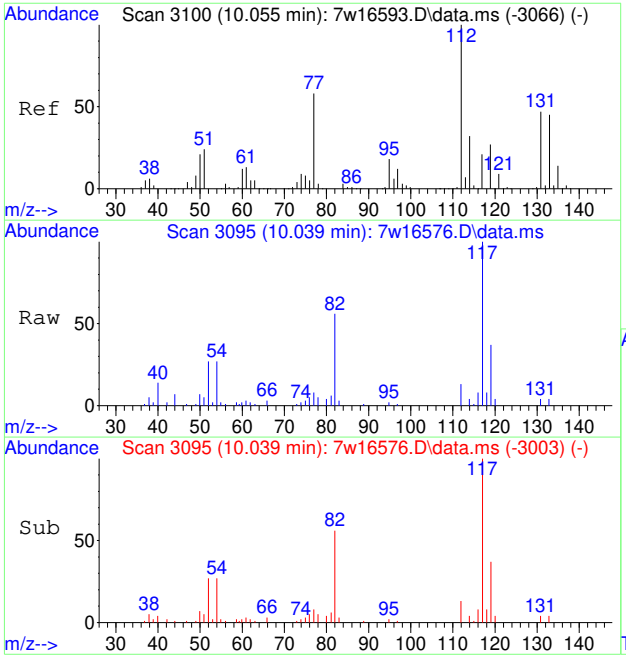


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 10.065 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:131 Resp: 804

Ion	Ratio	Lower	Upper
131	100		
95	33.6	23.7	43.9

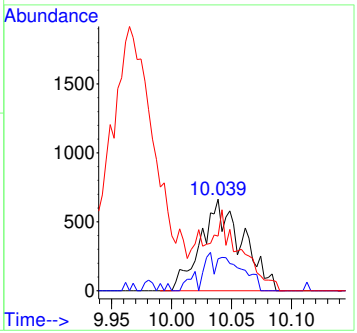


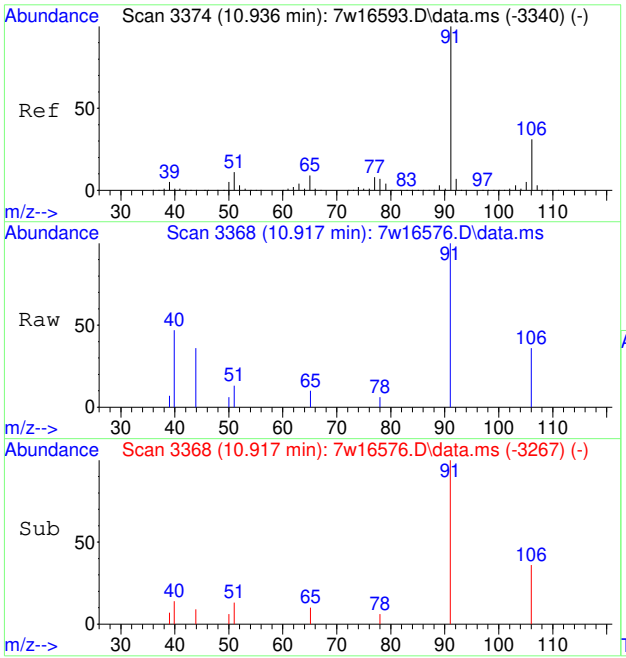


#78
CHLOROBENZENE
Concen: 0.04 PPBV
RT: 10.039 min Scan# 3095
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:112 Resp: 1584

Ion	Ratio	Lower	Upper
112	100		
114	37.2	22.9	42.5
77	74.4	34.4	63.8#

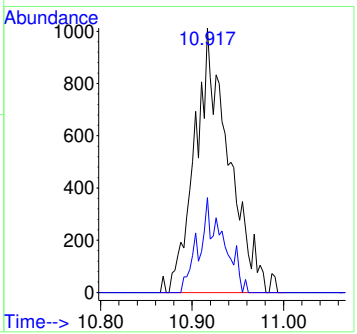


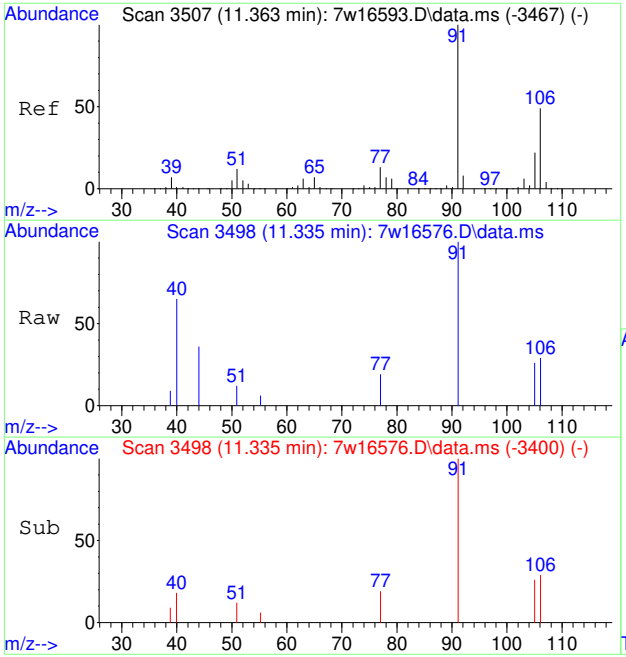


#79
ETHYLBENZENE
Concen: 0.04 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2610

Ion	Ratio	Lower	Upper
91	100		
106	25.6	2.8	62.8

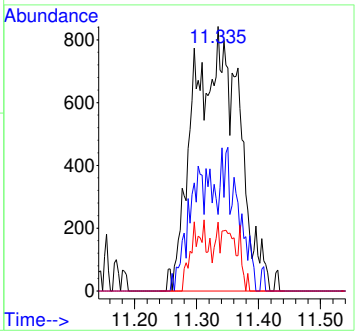


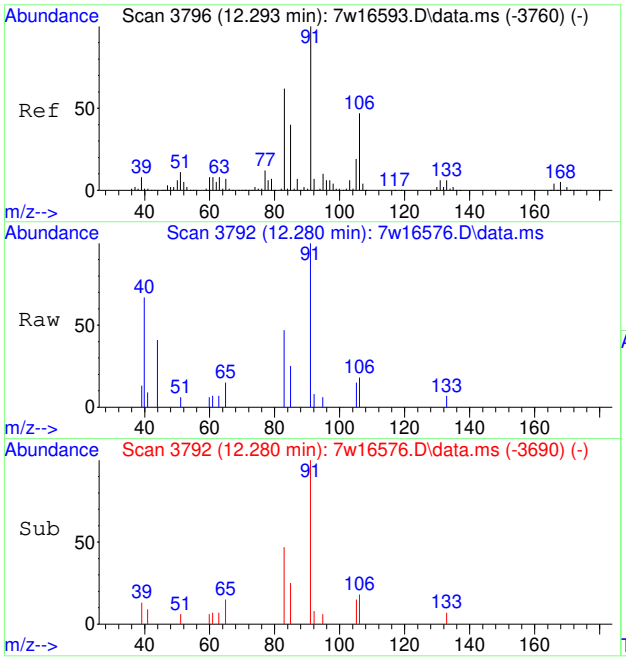


#80
M,P-XYLENE
Concen: 0.08 PPBV
RT: 11.335 min Scan# 3498
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 4291

Ion	Ratio	Lower	Upper
91	100		
106	22.1	0.0	58.7
105	11.4	0.0	43.2

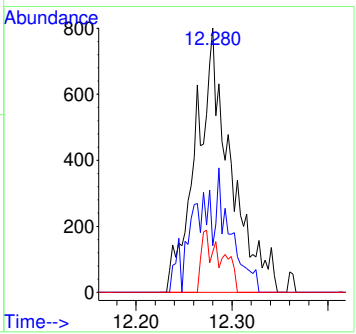


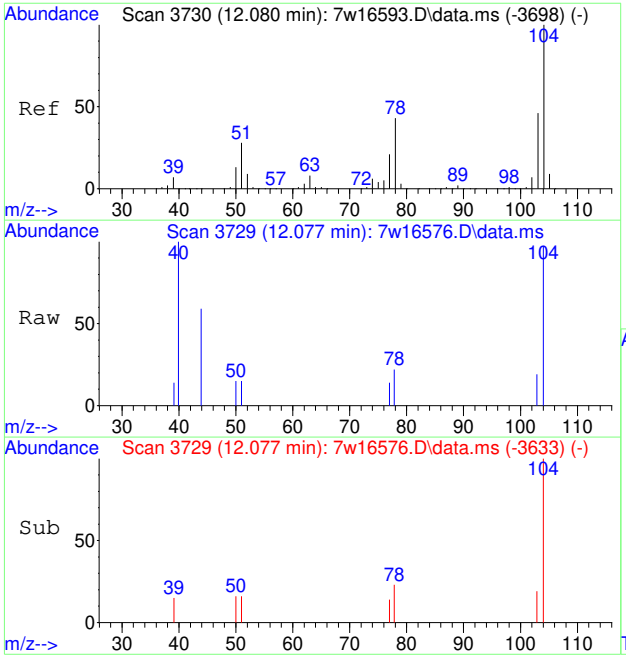


#81
O-XYLENE
Concen: 0.04 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2009

Ion	Ratio	Lower	Upper
91	100		
106	17.6	34.1	63.3#
105	15.4	14.6	27.2

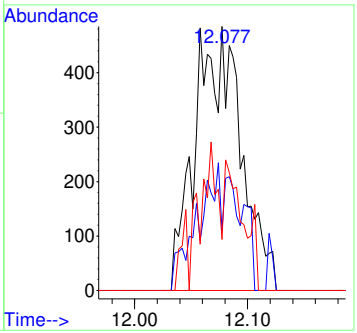


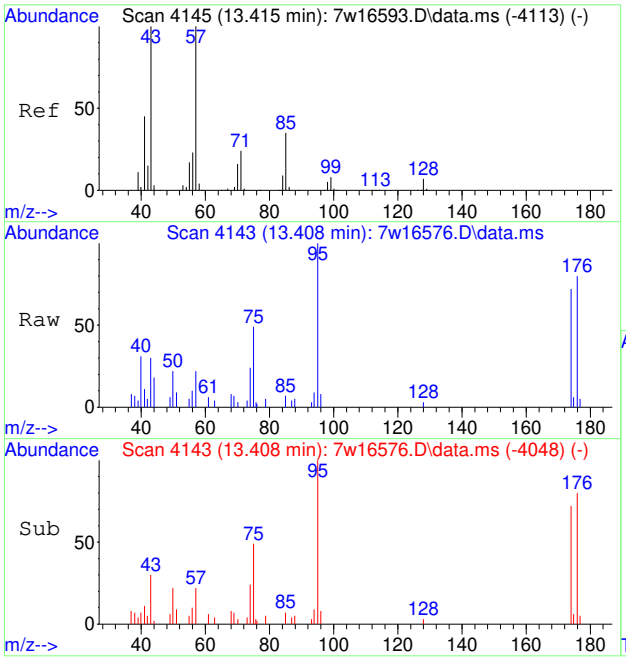


#82
STYRENE
Concen: 0.04 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:104 Resp: 1372

Ion	Ratio	Lower	Upper
104	100		
78	43.2	25.3	46.9
103	46.0	33.2	61.7

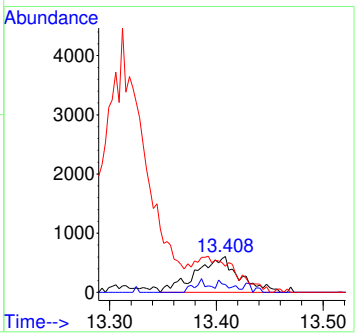


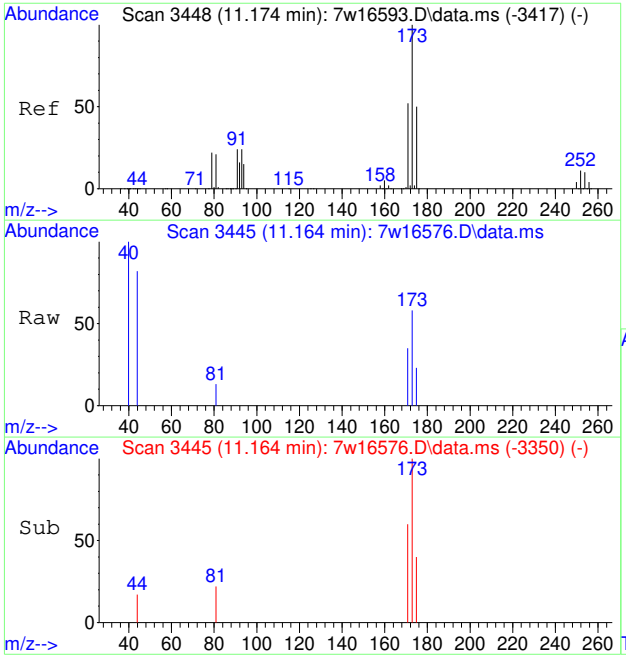


#83
NONANE
Concen: 0.04 PPBV
RT: 13.408 min Scan# 4143
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1708

Ion	Ratio	Lower	Upper
43	100		
85	6.0	27.6	51.2#
57	0.0	56.4	104.7#

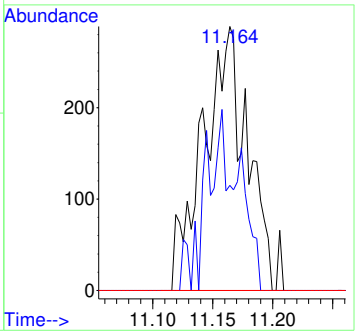


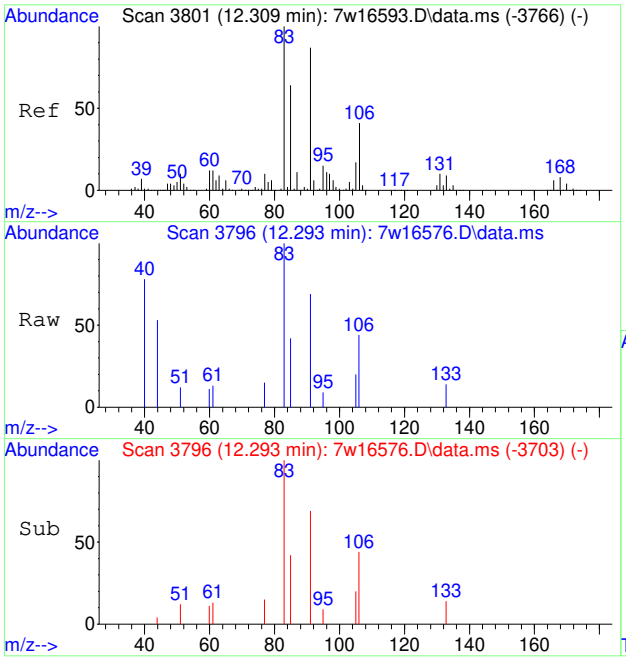


#84
BROMOFORM
Concen: 0.03 PPBV
RT: 11.164 min Scan# 3445
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:173 Resp: 746

Ion	Ratio	Lower	Upper
173	100		
175	50.7	33.0	61.4
254	0.0	5.9	10.9#

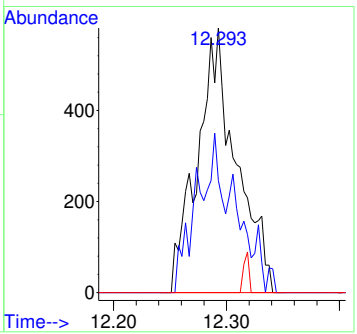


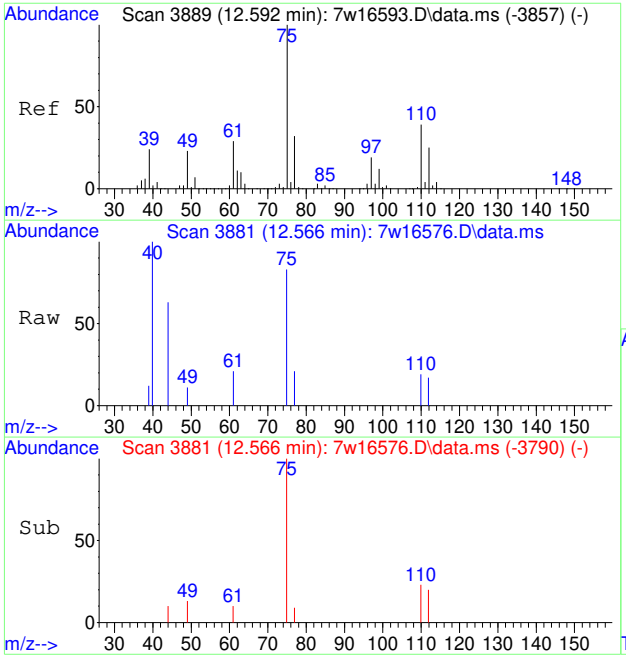


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1386

Ion	Ratio	Lower	Upper
83	100		
85	59.8	44.6	82.8
131	0.0	8.0	14.8#

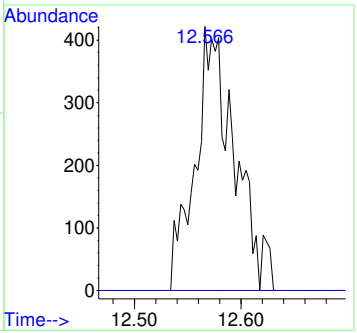


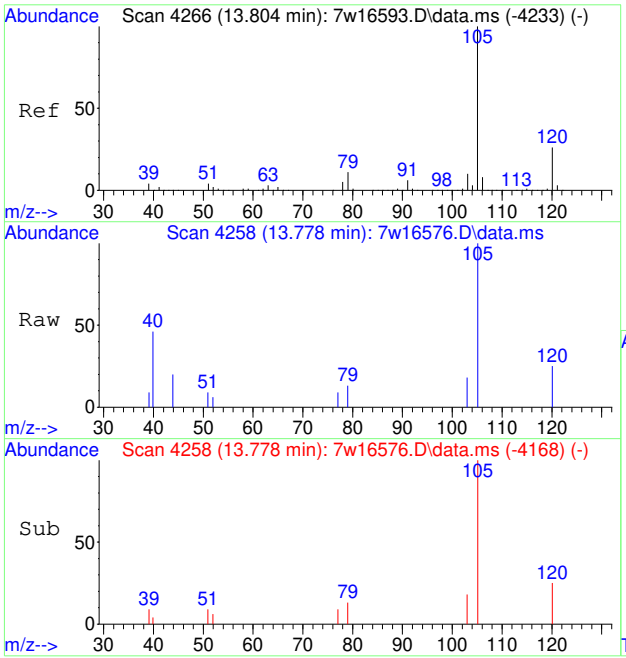


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.04 PPBV
RT: 12.566 min Scan# 3881
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 1086

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

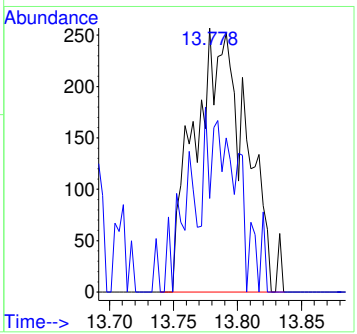


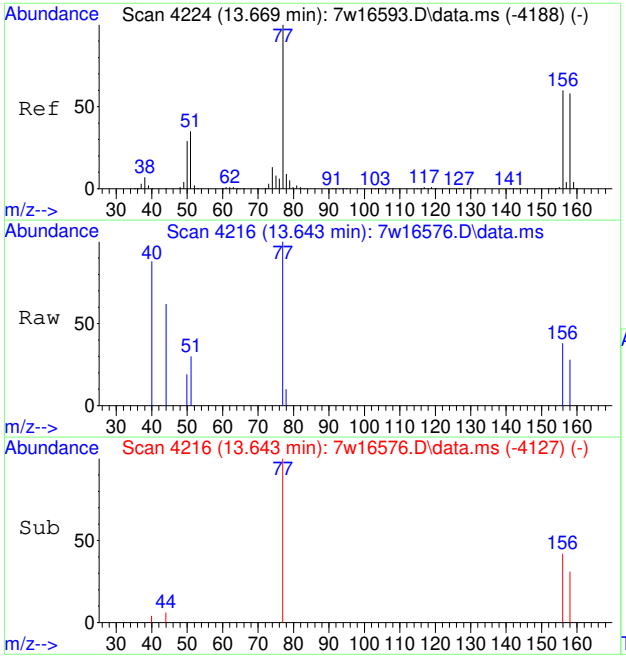


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 720

Ion	Ratio	Lower	Upper
120	100		
77	51.5	36.0	67.0

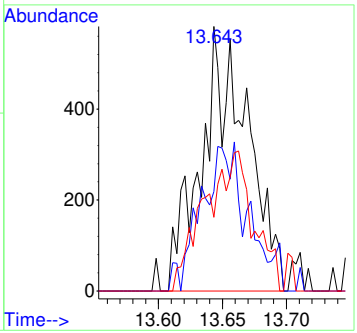


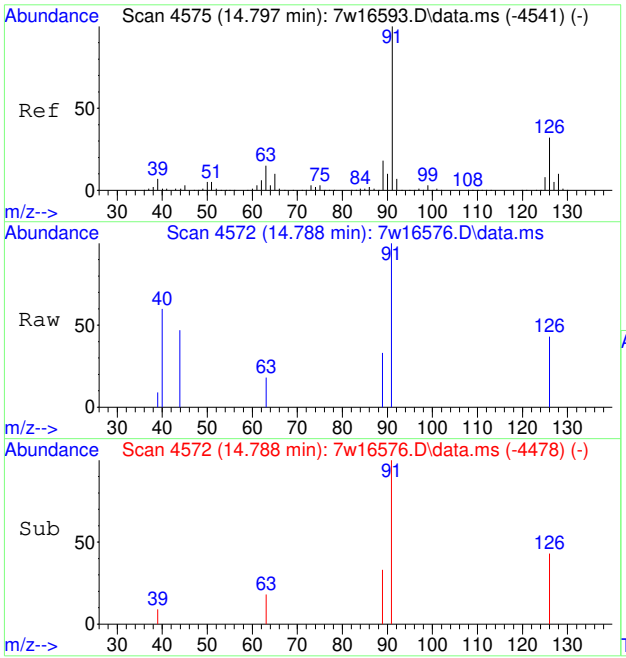


#89
BROMOBENZENE
Concen: 0.04 PPBV
RT: 13.643 min Scan# 4216
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 77 Resp: 1476

Ion	Ratio	Lower	Upper
77	100		
156	56.1	57.9	107.5#
158	57.3	55.7	103.5

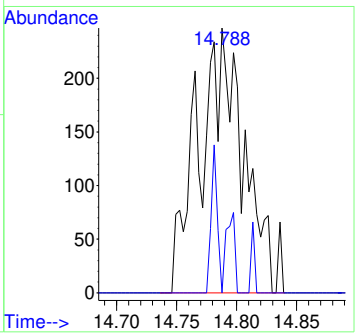


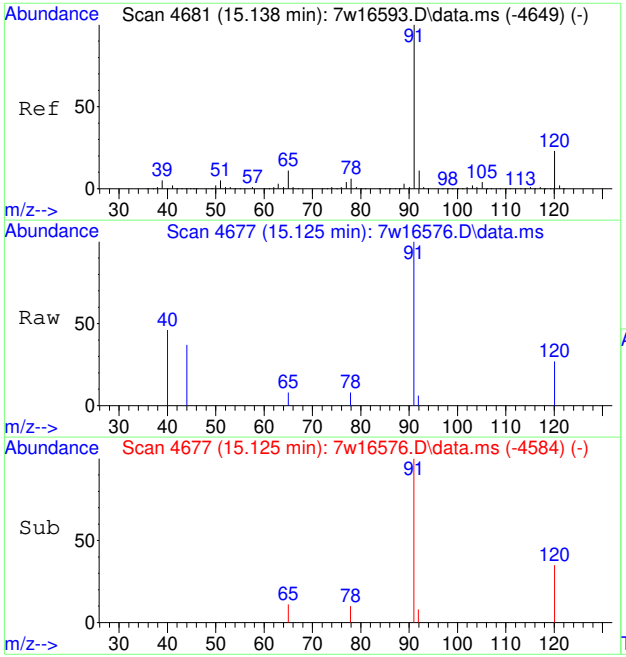


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:126 Resp: 652

Ion	Ratio	Lower	Upper
126	100		
128	13.3	22.7	42.1#

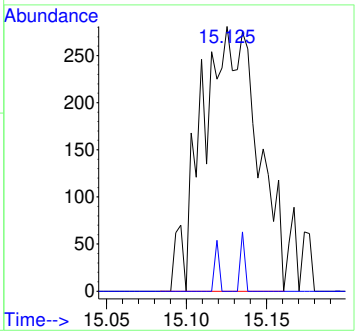


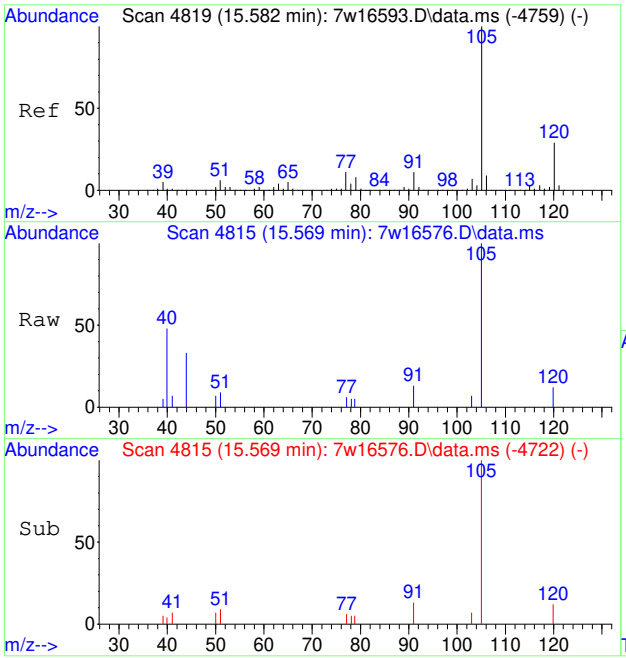


#91
N-PROPYLBENZENE
Concen: 0.03 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 688

Ion	Ratio	Lower	Upper
120	100		
105	0.0	10.6	19.6#

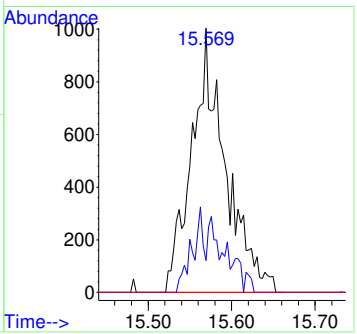


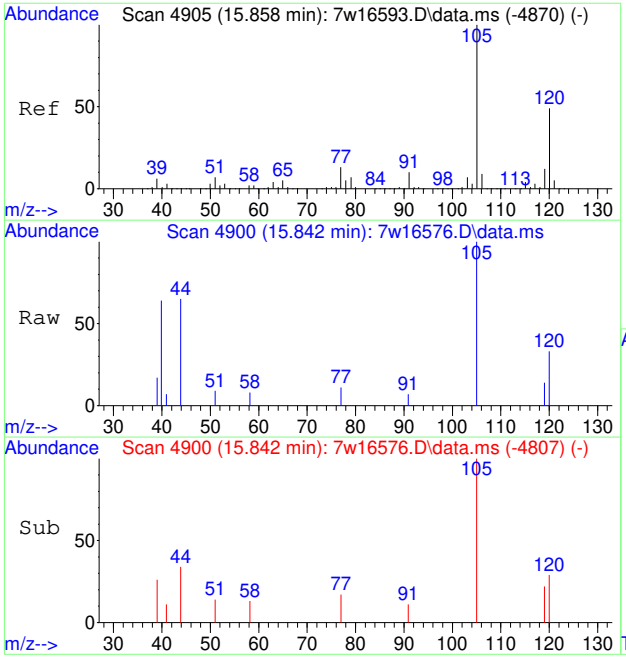


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2796

Ion	Ratio	Lower	Upper
105	100		
120	27.0	21.8	40.4
119	0.0	1.7	3.1#

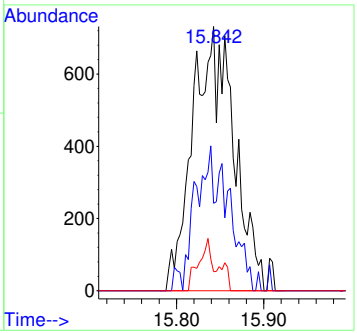


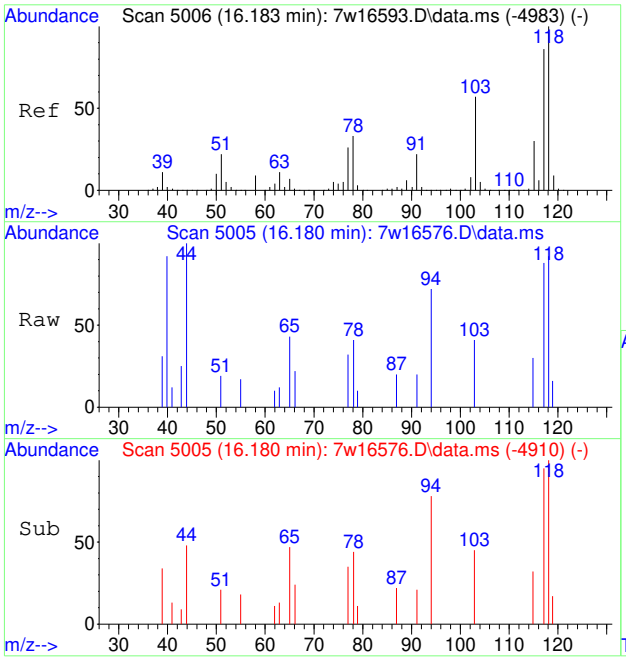


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2434

Ion	Ratio	Lower	Upper
105	100		
120	43.9	37.2	69.2
91	8.6	7.5	13.9

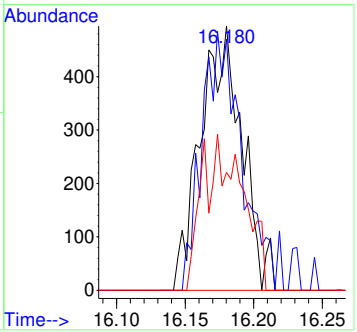


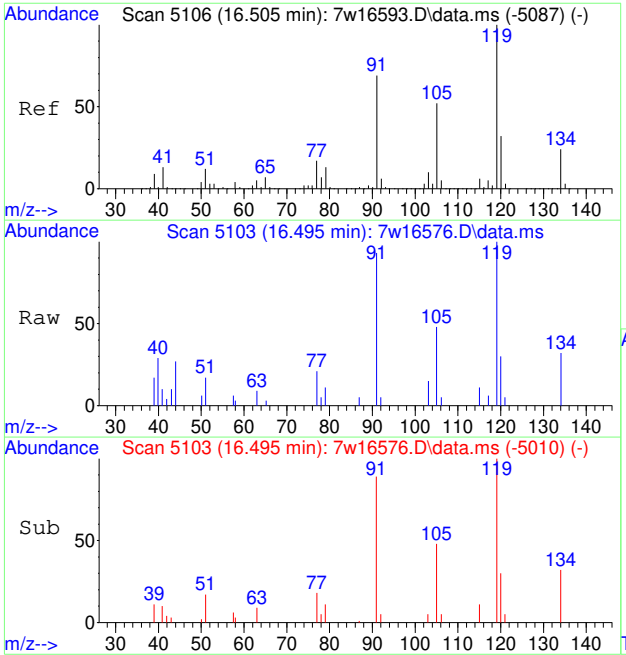


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:118 Resp: 1042

Ion	Ratio	Lower	Upper
118	100		
117	94.9	59.9	111.3
103	57.4	36.2	67.2

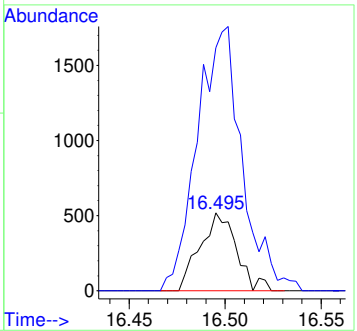


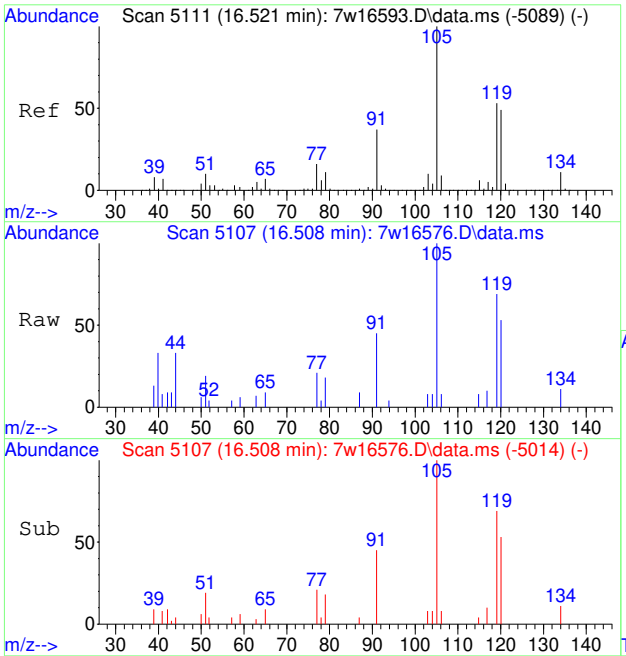


#95
TERT-BUTYLBENZENE
Concen: 0.05 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 685

Ion	Ratio	Lower	Upper
134	100		
119	417.1	307.9	571.7

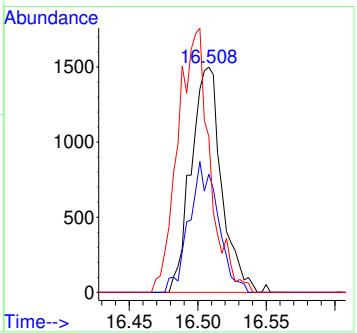


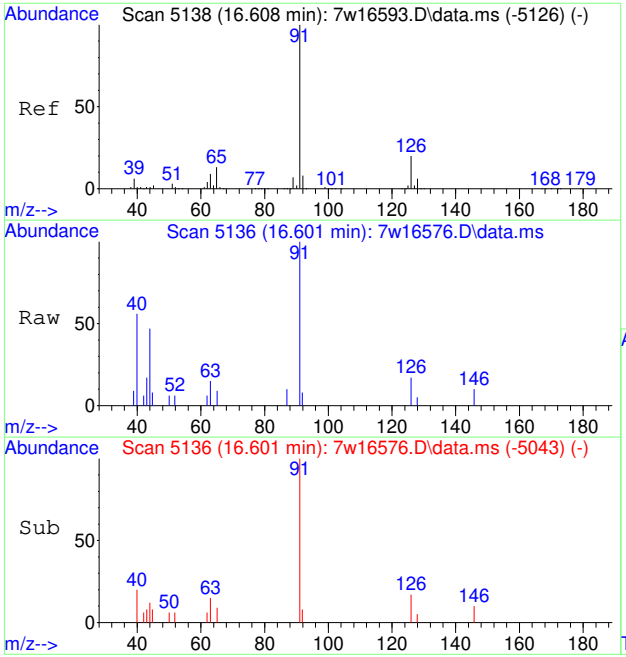


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2331

Ion	Ratio	Lower	Upper
105	100		
120	54.7	40.9	75.9
119	122.6	78.0	144.8

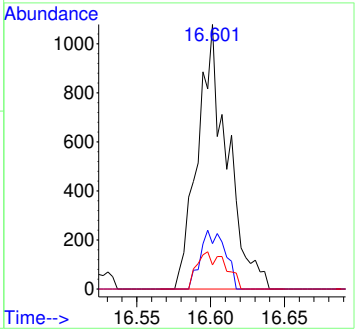


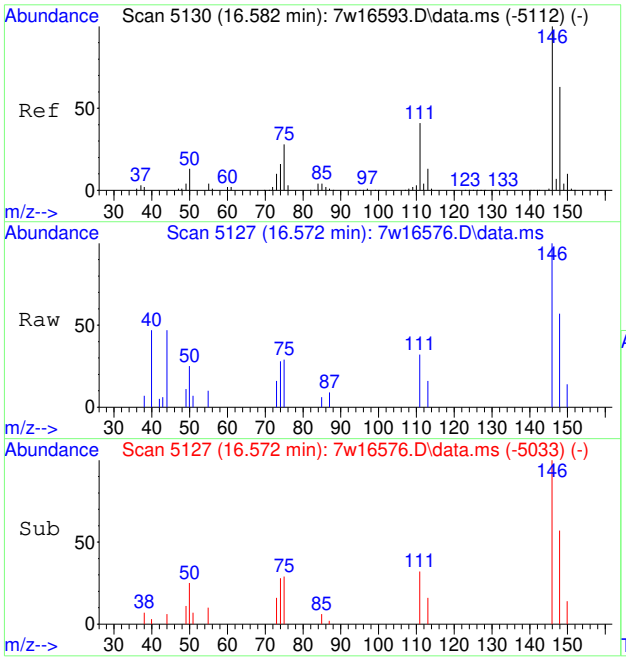


#97
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1503

Ion	Ratio	Lower	Upper
91	100		
126	18.2	17.2	32.0
65	13.4	7.3	13.7

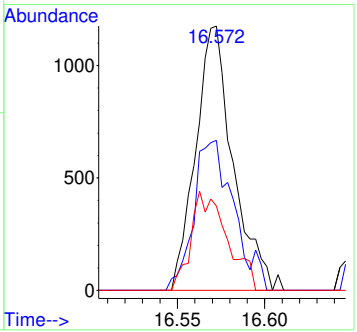


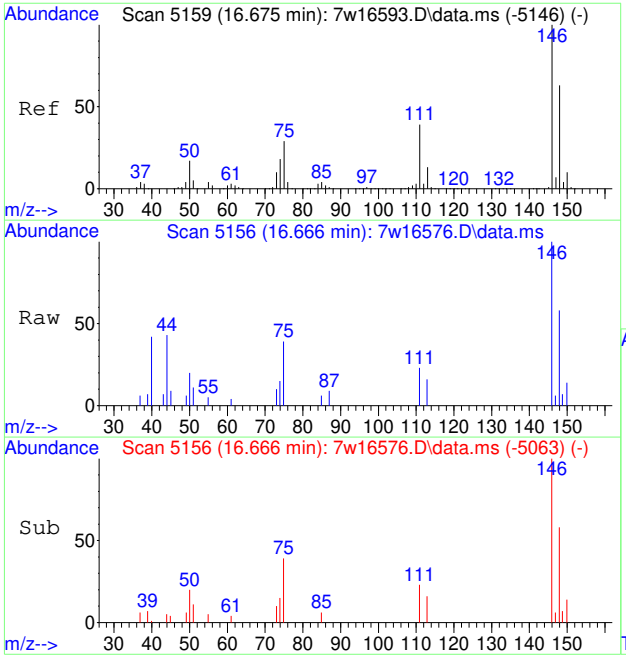


#98
M-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1758

Ion	Ratio	Lower	Upper
146	100		
148	60.6	44.2	82.2
111	35.9	25.4	47.2

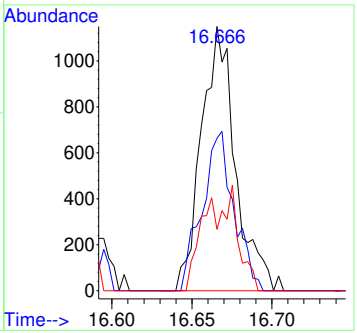


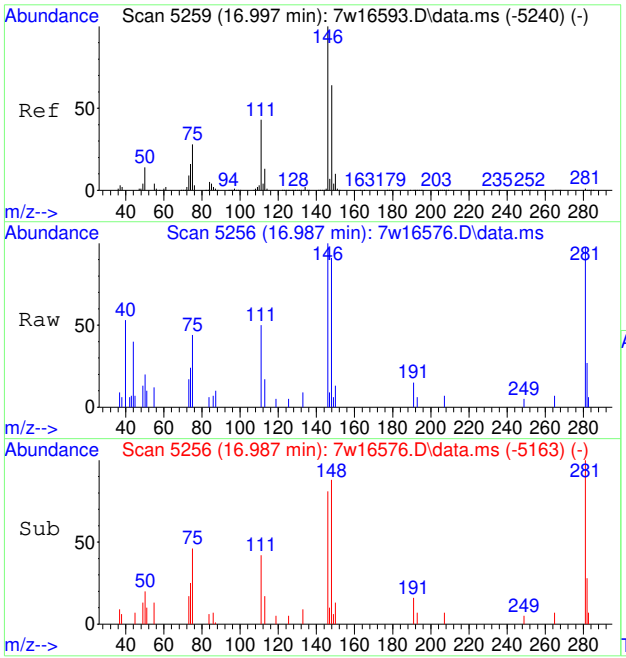


#99
P-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1701

Ion	Ratio	Lower	Upper
146	100		
148	56.6	44.7	82.9
111	37.6	24.8	46.1

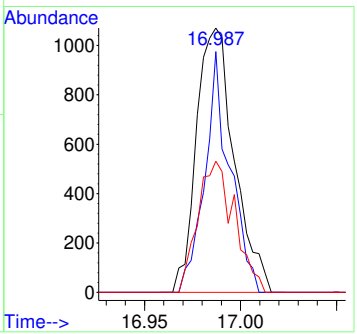


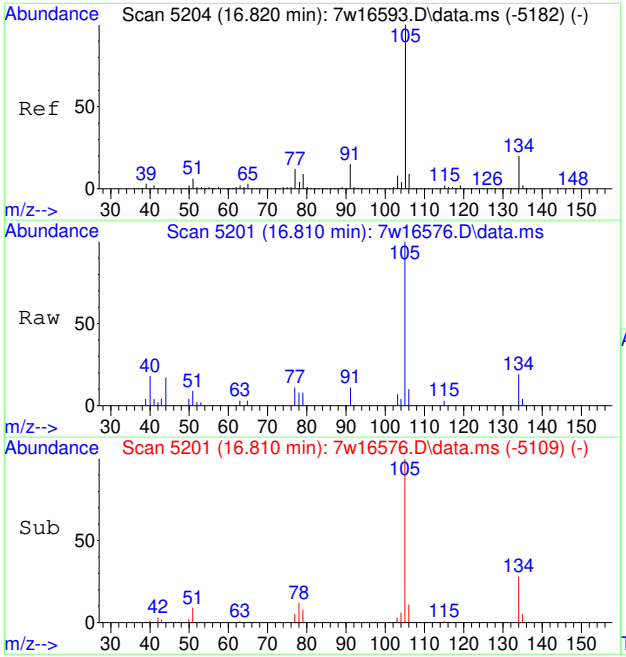


#100
O-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1470

Ion	Ratio	Lower	Upper
146	100		
148	60.7	44.6	82.8
111	48.1	26.9	50.1

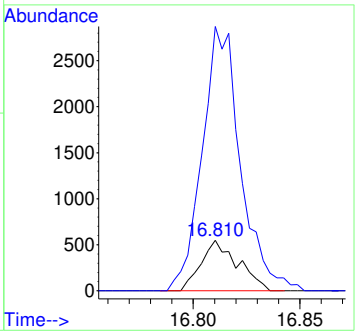


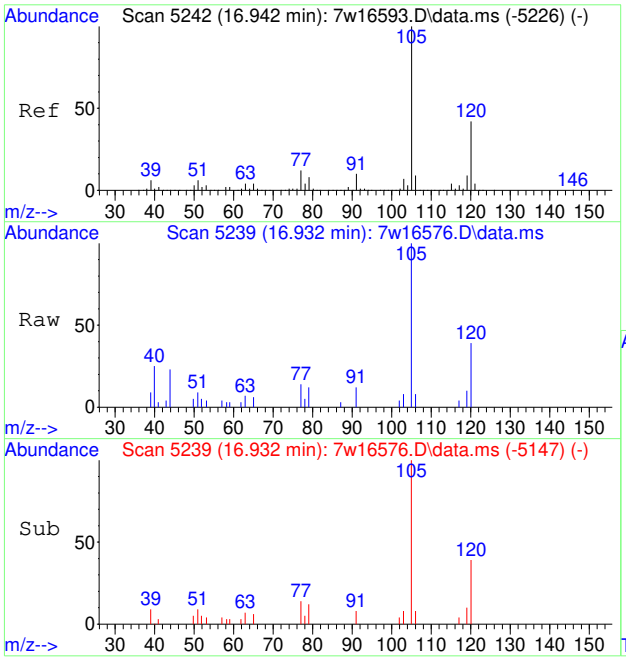


#101
SEC-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.810 min Scan# 5201
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 660

Ion	Ratio	Lower	Upper
134	100		
105	543.6	314.4	584.0

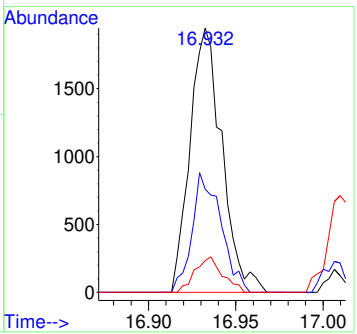


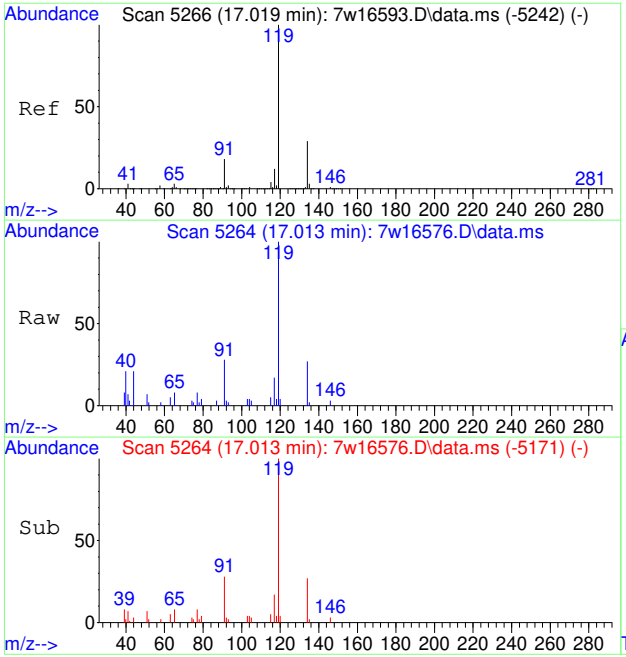


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2483

Ion	Ratio	Lower	Upper
105	100		
120	40.8	31.9	59.2
91	11.6	7.3	13.5

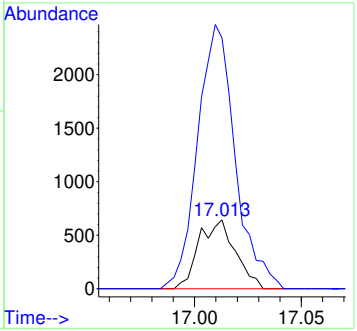


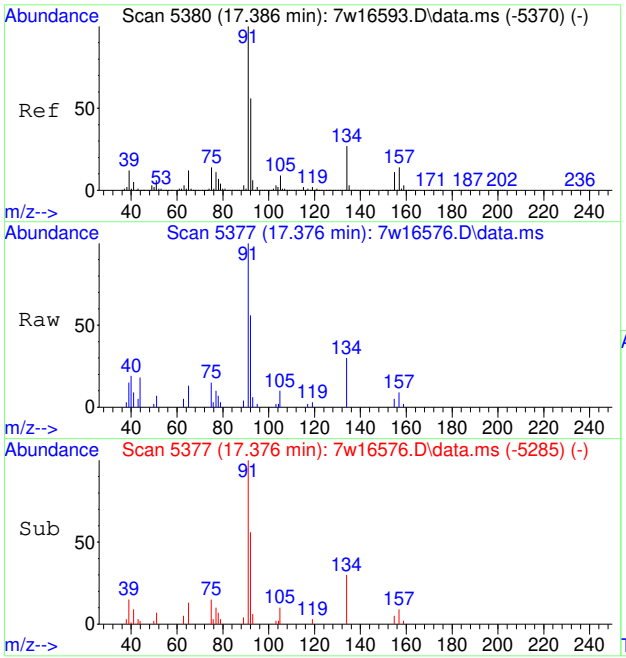


#103
P-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 767

Ion	Ratio	Lower	Upper
134	100		
119	394.7	253.7	471.3

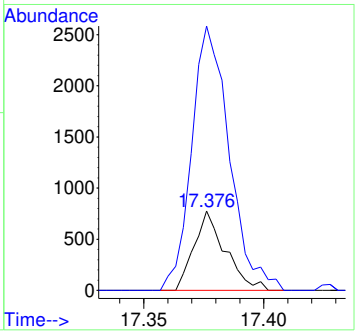


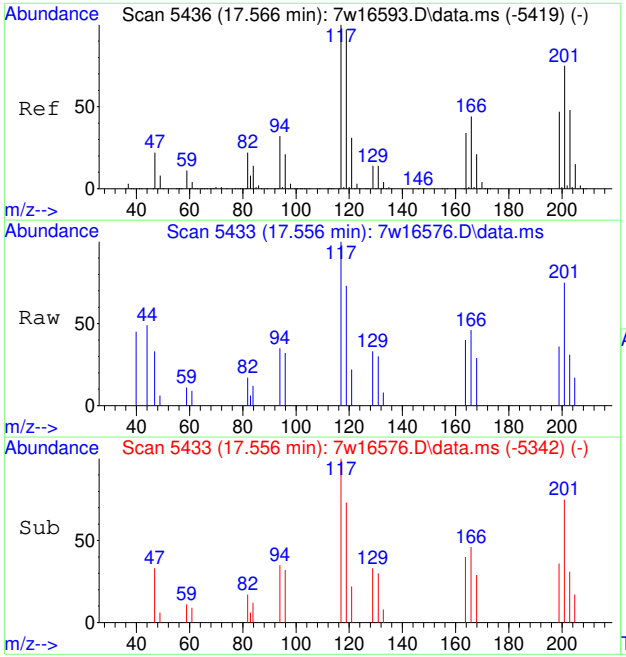


#104
N-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 703

Ion	Ratio	Lower	Upper
134	100		
91	401.0	231.1	429.1

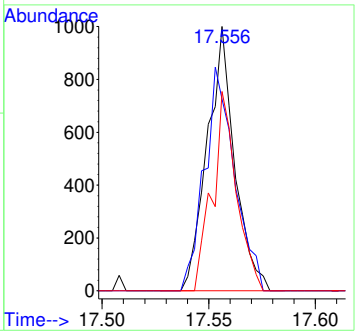


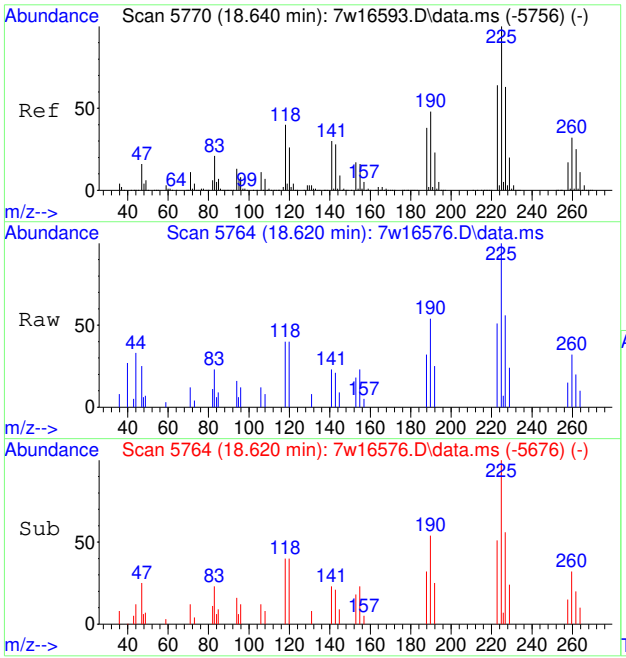


#105
HEXACHLOROETHANE
Concen: 0.04 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 895

Ion	Ratio	Lower	Upper
117	100		
119	92.8	68.3	126.9
201	66.3	45.9	85.3

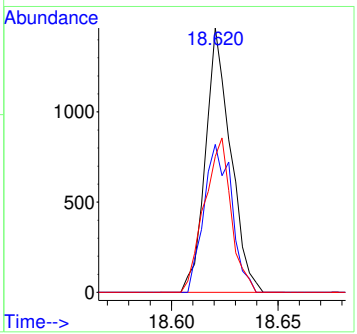


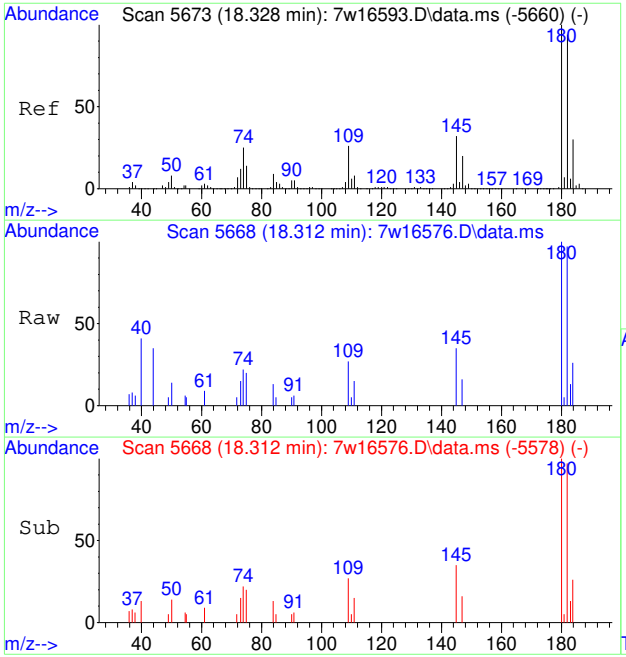


#106
HEXACHLOROBUTADIENE
Concen: 0.04 PPBV
RT: 18.620 min Scan# 5764
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:225 Resp: 1203

Ion	Ratio	Lower	Upper
225	100		
227	62.2	44.4	82.5
223	62.3	44.7	83.1

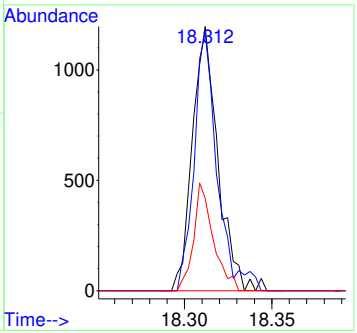


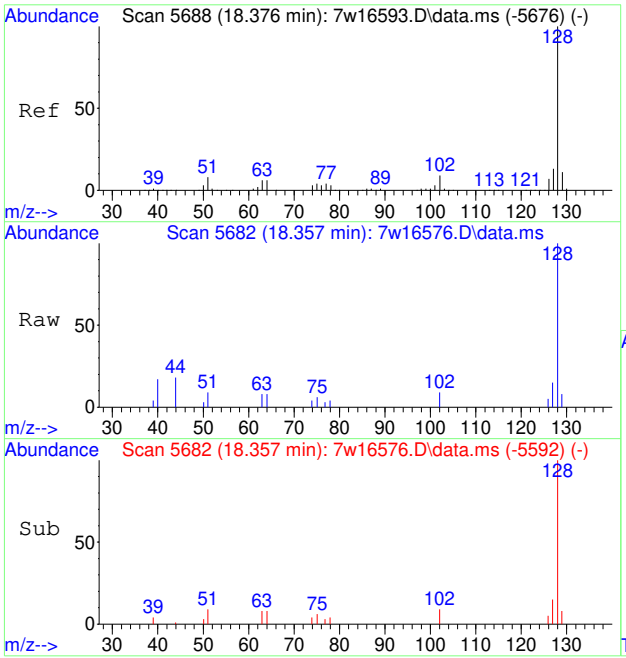


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.03 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:180 Resp: 1219

Ion	Ratio	Lower	Upper
180	100		
182	88.5	66.8	124.0
145	31.4	23.1	42.9

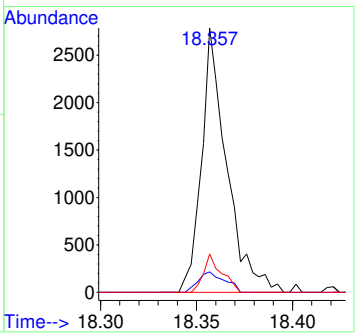




#108
NAPHTHALENE
Concen: 0.03 PPBV
RT: 18.357 min Scan# 5682
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:128 Resp: 2545

Ion	Ratio	Lower	Upper
128	100		
129	8.1	7.3	13.7
127	10.4	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16576.D
Injection Time: 08/07/25 04:00

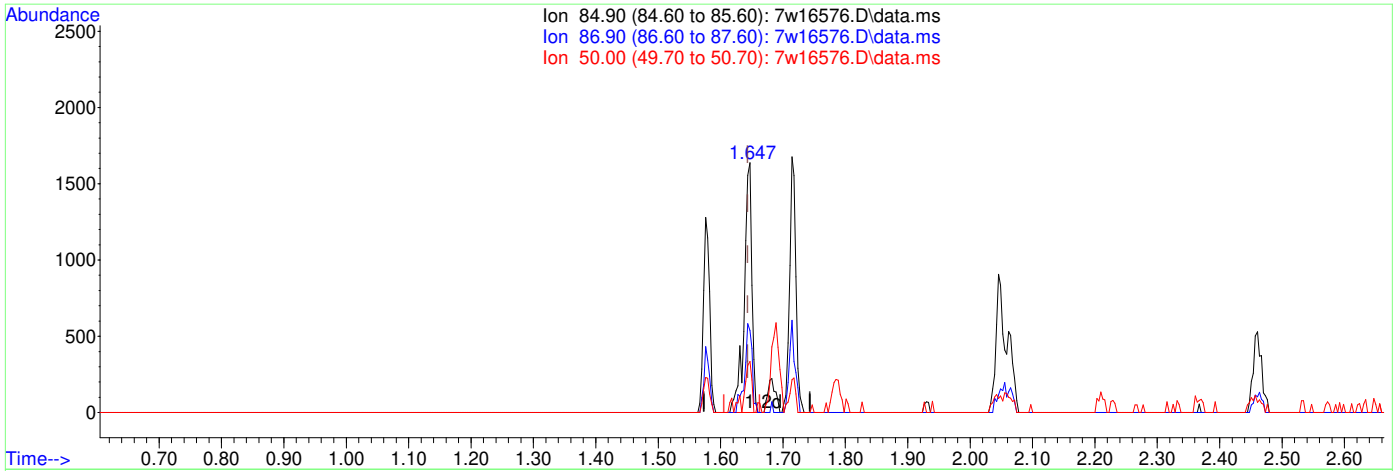
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

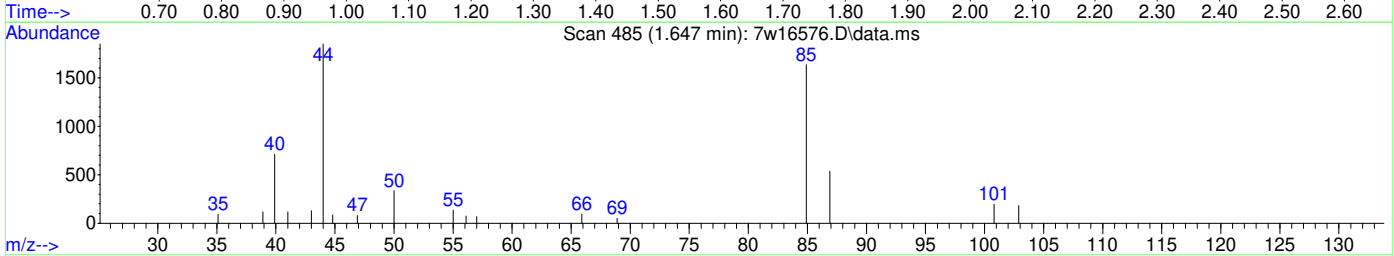
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

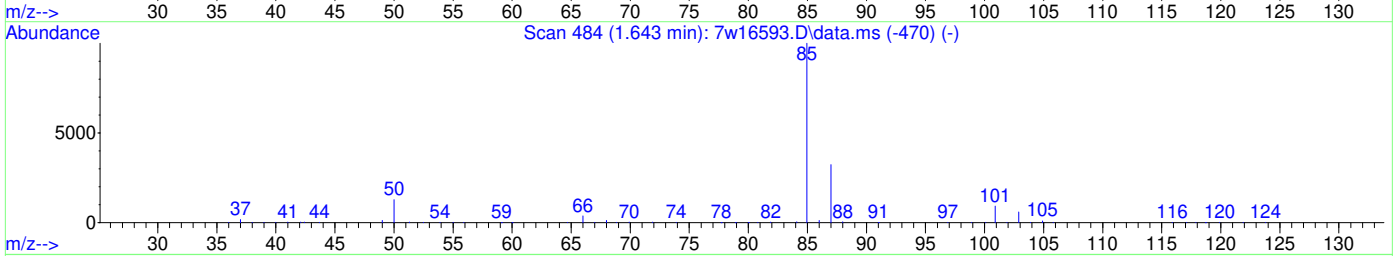
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.04PPBV

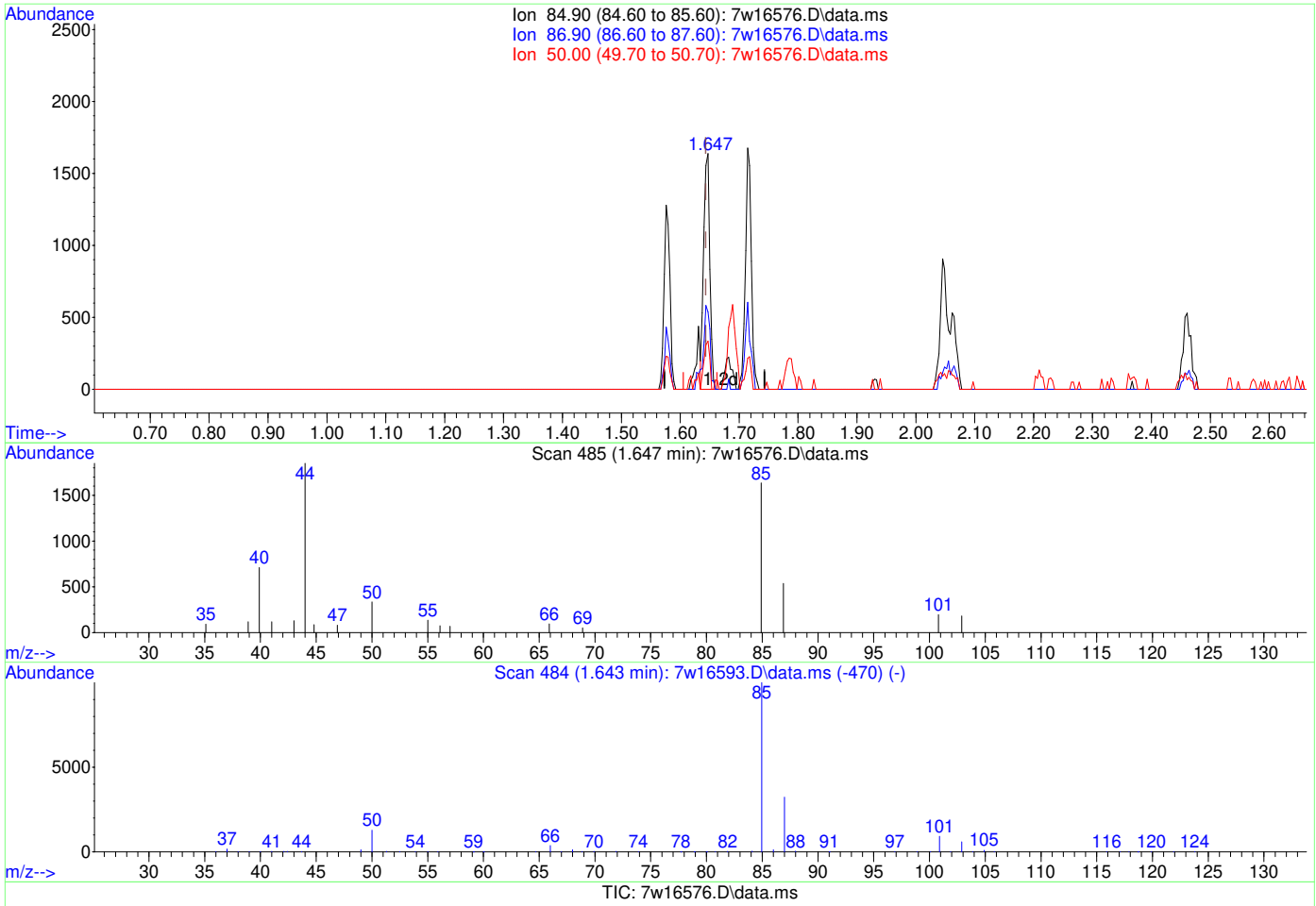
response 1388

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.65
50.00	17.30	23.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.03PPBV m

response 1176

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	40.90
50.00	17.30	27.64#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	113084	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	573427	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	530262	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	113084	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	422829	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	1638	0.11	PPBV		98
3) FREON 152A	1.608	65	909	0.13	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	372	0.12	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	1574	0.10	PPBV		76
6) DICHLORODIFLUOROMETHANE	1.647	85	3122m	0.09	PPBV		
7) PROPYLENE	1.627	41	1060	0.12	PPBV		84
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	2846	0.11	PPBV	#	86
9) FREON 114	1.717	85	3009	0.10	PPBV		85
10) CHLOROMETHANE	1.689	52	465	0.12	PPBV		93
11) VINYL CHLORIDE	1.746	62	1526	0.11	PPBV		97
12) 1,3-BUTADIENE	1.785	54	1299	0.12	PPBV		88
13) N-BUTANE	1.801	43	2465	0.13	PPBV	#	49
14) BROMOMETHANE	1.859	94	1194	0.11	PPBV		98
15) CHLOROETHANE	1.907	64	800	0.11	PPBV		95
16) DICHLOROFLUOROMETHANE	1.933	67	2916	0.11	PPBV		92
17) ACETONITRILE	2.000	41	1673	0.14	PPBV	#	91
18) ACROLEIN	2.036	56	823	0.13	PPBV		86
19) FREON 123	2.049	83	2970	0.11	PPBV		96
20) FREON 123A	2.065	117	1678	0.10	PPBV	#	33
21) TRICHLOROFLUOROMETHANE	2.129	101	3103	0.10	PPBV		96
24) PENTANE	2.242	42	1687	0.13	PPBV	#	90
25) IODOMETHANE	2.299	142	3122	0.11	PPBV		92
26) 1,1-DICHLOROETHYLENE	2.328	96	1351	0.12	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	3643	0.11	PPBV	#	75
29) BROMOETHENE	2.007	106	1160	0.10	PPBV		93
31) METHYLENE CHLORIDE	2.364	84	1574	0.14	PPBV	#	76
32) 3-CHLOROPROPENE	2.406	76	631	0.10	PPBV	#	54
33) FREON 113	2.460	151	1876	0.10	PPBV		81
34) TRANS-1,2-DICHLOROETHENE	2.685	96	1480	0.12	PPBV	#	73
35) TERTIARY BUTYL ALCOHOL	2.348	59	3930	0.12	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.798	73	4162	0.11	PPBV	#	71
37) TETRAHYDROFURAN	3.496	72	660	0.11	PPBV		88
38) HEXANE	3.238	57	2906	0.12	PPBV		87
39) VINYL ACETATE	2.824	86	343	0.10	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.759	63	2595	0.10	PPBV		96
41) METHYL ETHYL KETONE	2.933	72	844	0.13	PPBV	#	85
42) CIS-1,2-DICHLOROETHENE	3.113	96	1430	0.11	PPBV		80
43) DIISOPROPYL ETHER	3.248	59	742	0.11	PPBV		95
44) ETHYL ACETATE	3.258	61	462	0.09	PPBV		87
45) METHYL ACRYLATE	3.241	55	3222	0.11	PPBV	#	96
46) CHLOROFORM	3.258	83	2745	0.10	PPBV	#	90
47) 2,4-DIMETHYLPENTANE	3.740	57	3064	0.11	PPBV		95
48) 1,1,1-TRICHLOROETHANE	3.820	97	2869	0.10	PPBV		93
49) CARBON TETRACHLORIDE	4.235	117	2721	0.09	PPBV		97
50) 1,2-DICHLOROETHANE	3.663	62	2043	0.10	PPBV		96
51) BENZENE	4.126	78	4491	0.12	PPBV		95
53) CYCLOHEXANE	4.328	84	1883	0.11	PPBV	#	65
54) 2,3-DIMETHYLPENTANE	4.582	71	954	0.11	PPBV	#	54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

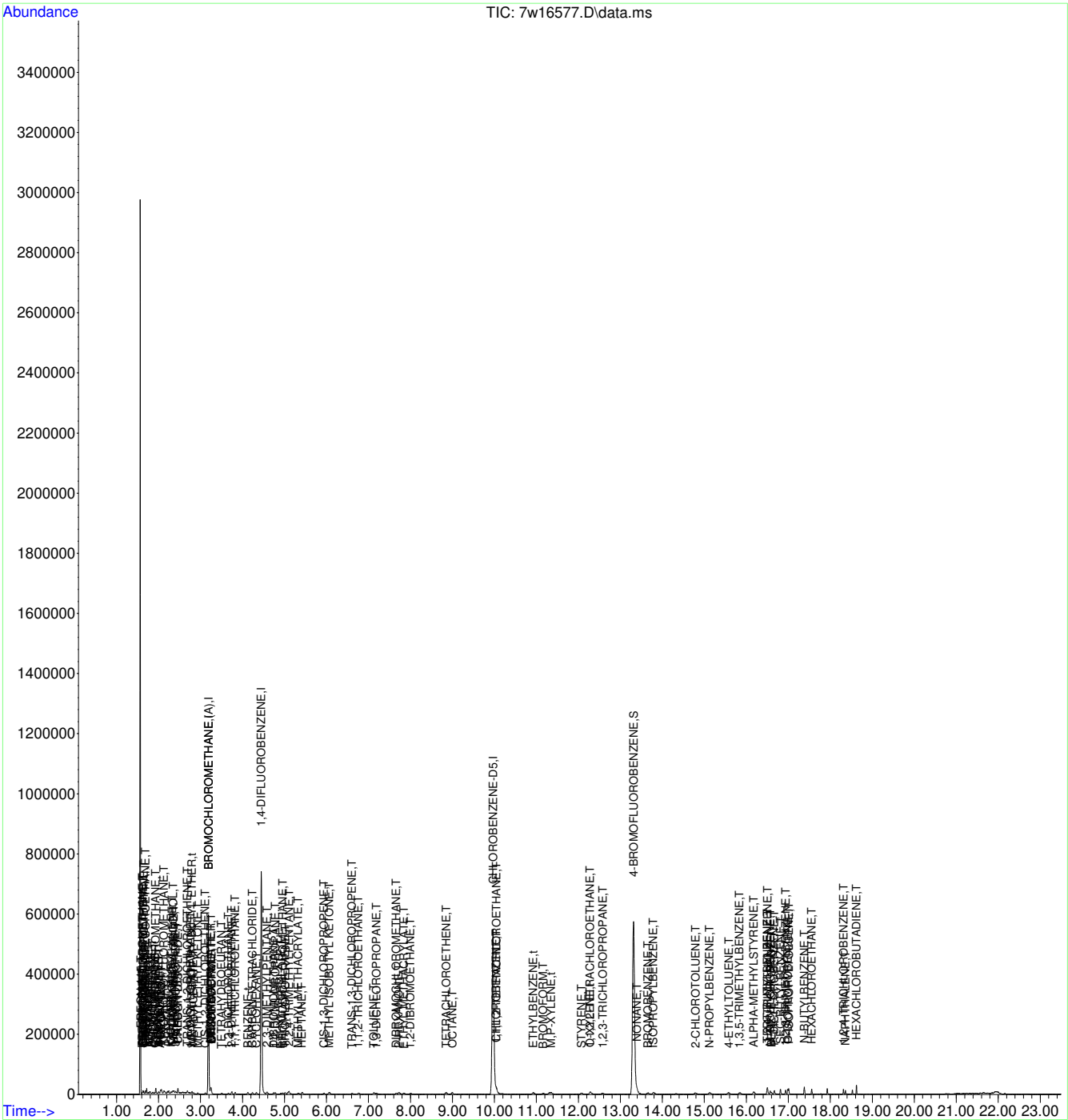
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) TRICHLOROETHENE	5.016	95	1997	0.11	PPBV		83
56) 1,2-DICHLOROPROPANE	4.785	63	1753	0.11	PPBV		85
57) DIBROMOMETHANE	4.746	174	1723	0.11	PPBV		90
58) ETHYL ACRYLATE	4.910	55	3841	0.10	PPBV	#	93
59) BROMODICHLOROMETHANE	4.958	83	2818	0.09	PPBV		96
60) 2,2,4-TRIMETHYLPENTANE	5.106	57	9397	0.12	PPBV	#	91
62) HEPTANE	5.415	43	2892	0.11	PPBV		85
63) METHYL METHACRYLATE	5.322	69	1510	0.10	PPBV		78
64) METHYL ISOBUTYL KETONE	6.061	58	2096	0.14	PPBV	#	87
65) CIS-1,3-DICHLOROPROPENE	5.936	75	2385	0.09	PPBV		97
66) TOLUENE	7.129	91	5187	0.11	PPBV		95
67) 1,3-DICHLOROPROPANE	7.187	76	2497	0.10	PPBV	#	93
68) TRANS-1,3-DICHLOROPROPENE	6.605	75	1972	0.08	PPBV		93
69) 1,1,2-TRICHLOROETHANE	6.759	83	1417	0.10	PPBV		93
70) 2-HEXANONE	7.714	58	3348	0.17	PPBV	#	87
71) ETHYL METHACRYLATE	7.843	69	2476	0.10	PPBV	#	74
72) TETRACHLOROETHENE	8.849	164	1845	0.11	PPBV		97
73) DIBROMOCHLOROMETHANE	7.663	129	2664	0.09	PPBV		97
74) 1,2-DIBROMOETHANE	7.991	107	2697	0.11	PPBV	#	94
75) OCTANE	9.000	43	3873	0.11	PPBV		88
77) 1,1,1,2-TETRACHLOROETHANE	10.045	131	2123	0.10	PPBV		97
78) CHLOROBENZENE	10.035	112	4090	0.11	PPBV	#	79
79) ETHYLBENZENE	10.923	91	6930	0.11	PPBV		100
80) M,P-XYLENE	11.347	91	10889	0.22	PPBV	#	87
81) O-XYLENE	12.277	91	5536	0.11	PPBV	#	76
82) STYRENE	12.071	104	3856	0.10	PPBV	#	49
83) NONANE	13.389	43	4193	0.11	PPBV		81
84) BROMOFORM	11.158	173	2131	0.08	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.277	83	3686	0.10	PPBV	#	95
86) 1,2,3-TRICHLOROPROPANE	12.579	75	2860	0.10	PPBV	#	99
88) ISOPROPYLBENZENE	13.778	120	2075	0.11	PPBV		81
89) BROMOBENZENE	13.649	77	4058	0.11	PPBV	#	70
90) 2-CHLOROTOLUENE	14.788	126	1780	0.10	PPBV	#	61
91) N-PROPYLBENZENE	15.122	120	1971	0.10	PPBV		94
92) 4-ETHYLTOLUENE	15.582	105	7463	0.10	PPBV	#	96
93) 1,3,5-TRIMETHYLBENZENE	15.829	105	6383	0.10	PPBV	#	34
94) ALPHA-METHYLSTYRENE	16.170	118	2929	0.09	PPBV		96
95) TERT-BUTYLBENZENE	16.495	134	1569	0.10	PPBV		94
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	6125	0.10	PPBV		95
97) BENZYL CHLORIDE	16.598	91	3788	0.07	PPBV	#	87
98) M-DICHLOROBENZENE	16.566	146	4159	0.10	PPBV		96
99) P-DICHLOROBENZENE	16.662	146	4312	0.10	PPBV		95
100) O-DICHLOROBENZENE	16.987	146	4193	0.11	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	2000	0.11	PPBV		89
102) 1,2,3-TRIMETHYLBENZENE	16.935	105	6206	0.10	PPBV		94
103) P-ISOPROPYLTOLUENE	17.009	134	2027	0.10	PPBV		86
104) N-BUTYLBENZENE	17.376	134	1794	0.09	PPBV		70
105) HEXACHLOROETHANE	17.556	117	2143	0.09	PPBV		99
106) HEXACHLOROBUTADIENE	18.624	225	3071	0.12	PPBV		96
107) 1,2,4-TRICHLOROBENZENE	18.312	180	2908	0.08	PPBV		97
108) NAPHTHALENE	18.360	128	6418	0.08	PPBV		99

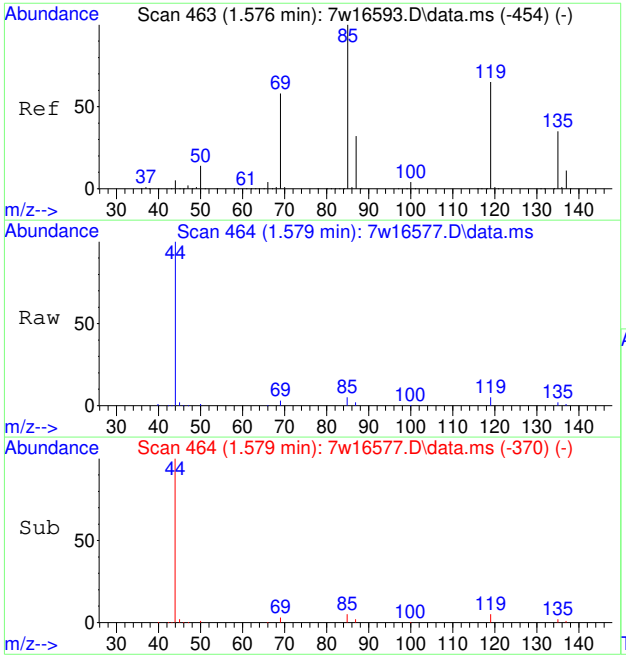
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

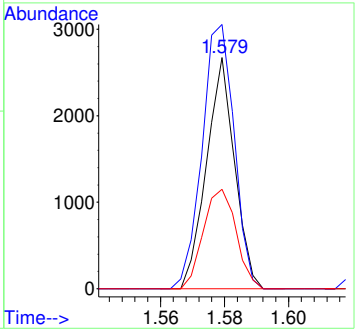


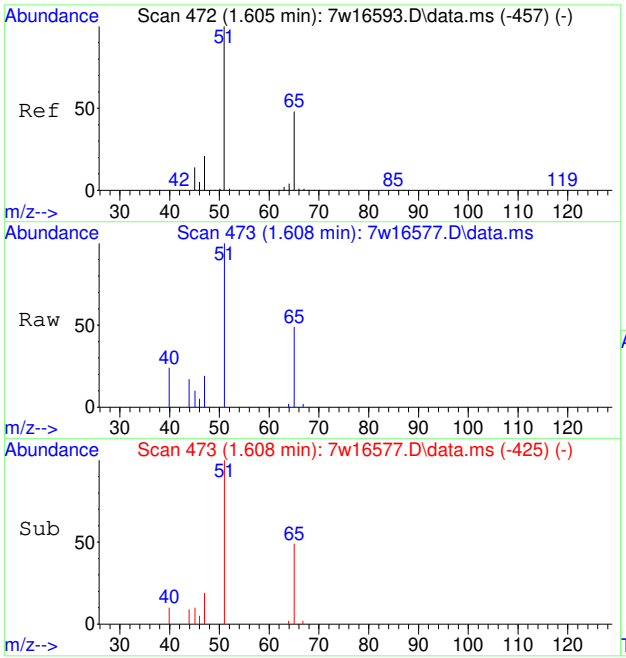


#2
FREON 115
Concen: 0.11 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:119 Resp: 1638

Ion	Ratio	Lower	Upper
119	100		
85	130.1	90.9	168.7
135	50.1	38.2	71.0

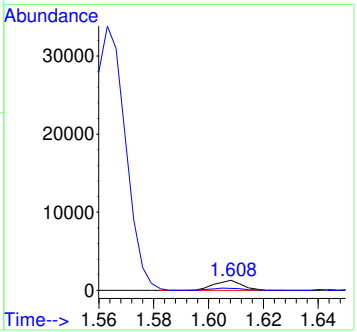


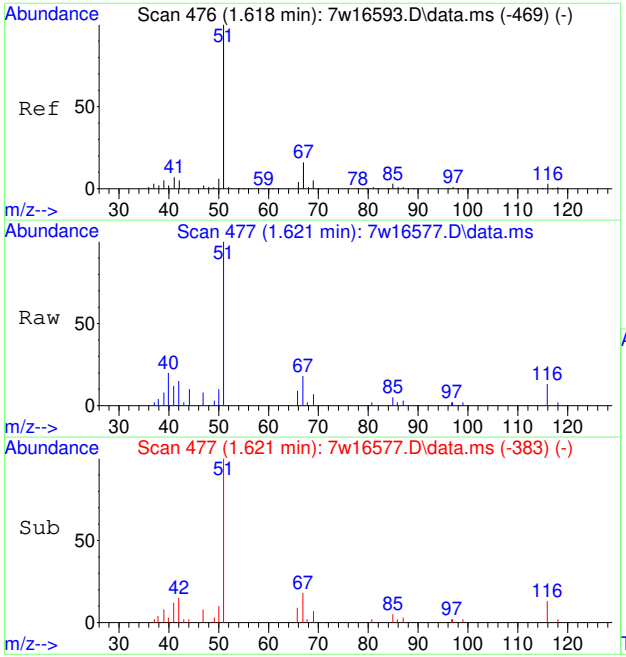


#3
FREON 152A
Concen: 0.13 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 909

Ion	Ratio	Lower	Upper
65	100		
45	25.6	20.6	38.4

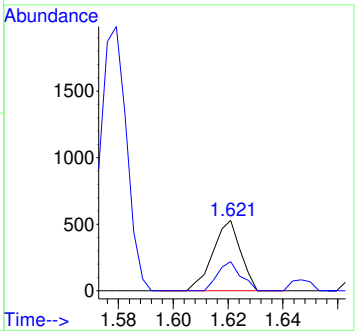


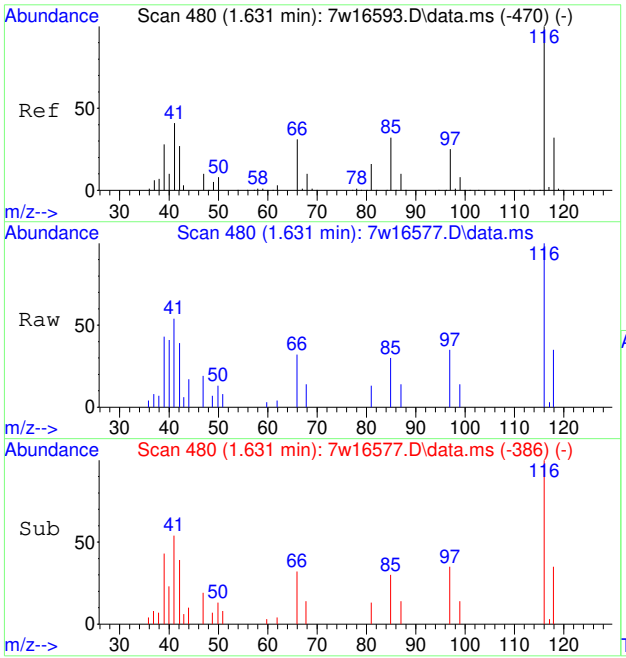


#4
CHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 372

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

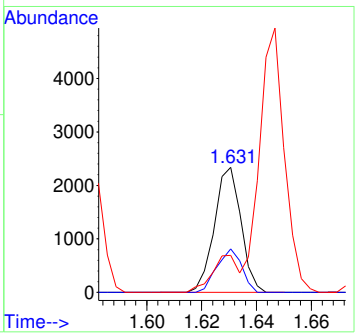


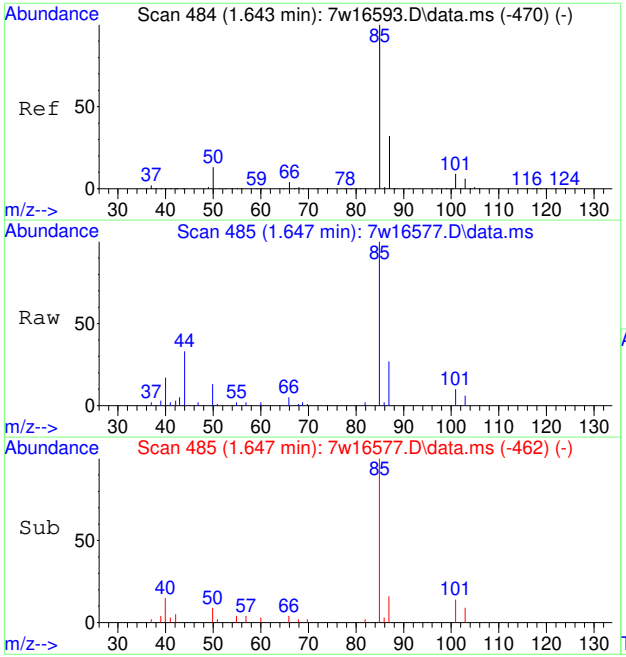


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:116 Resp: 1574

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.7	42.1
85	227.6	194.7	361.7

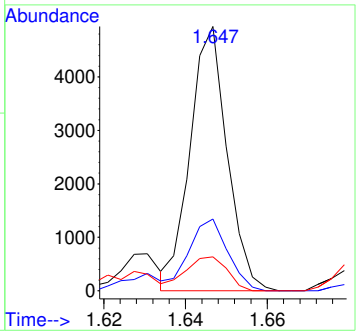


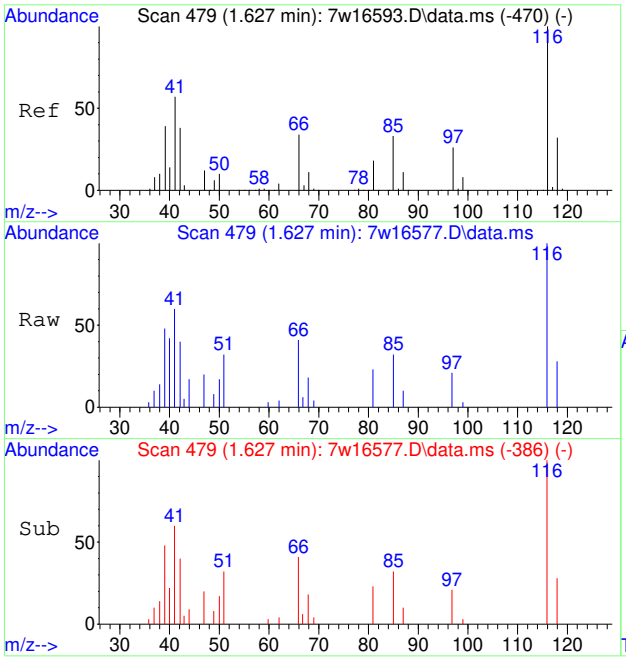


#6
DICHLORODIFLUOROMETHANE
Concen: 0.09 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3122

Ion	Ratio	Lower	Upper
85	100		
87	34.8	23.1	42.9
50	24.8	12.1	22.5#

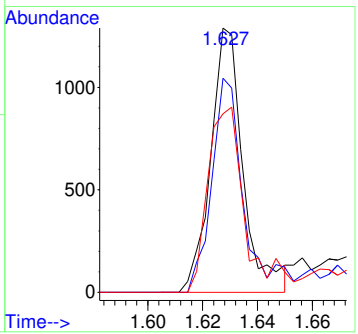


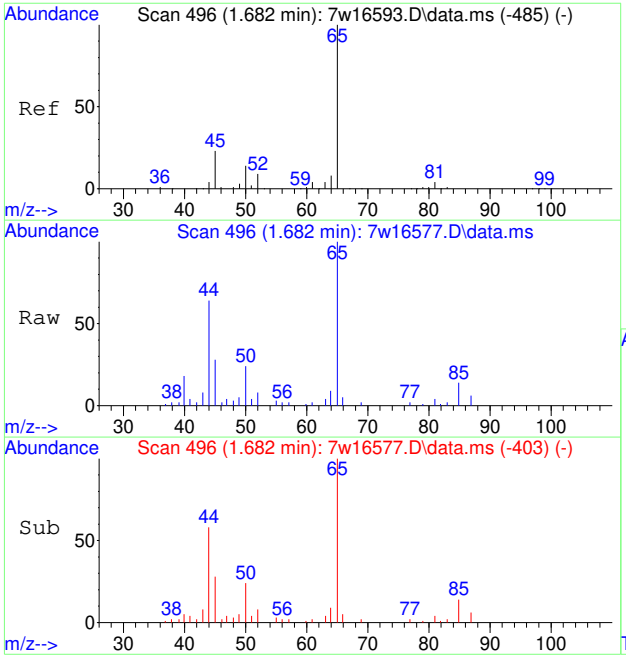


#7
PROPYLENE
Concen: 0.12 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1060

Ion	Ratio	Lower	Upper
41	100		
39	84.6	51.0	94.8
42	80.7	46.6	86.6

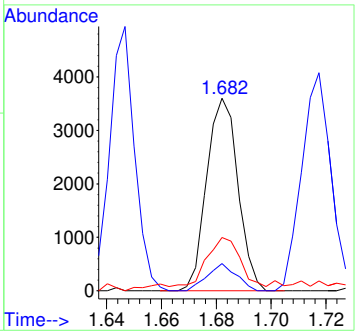


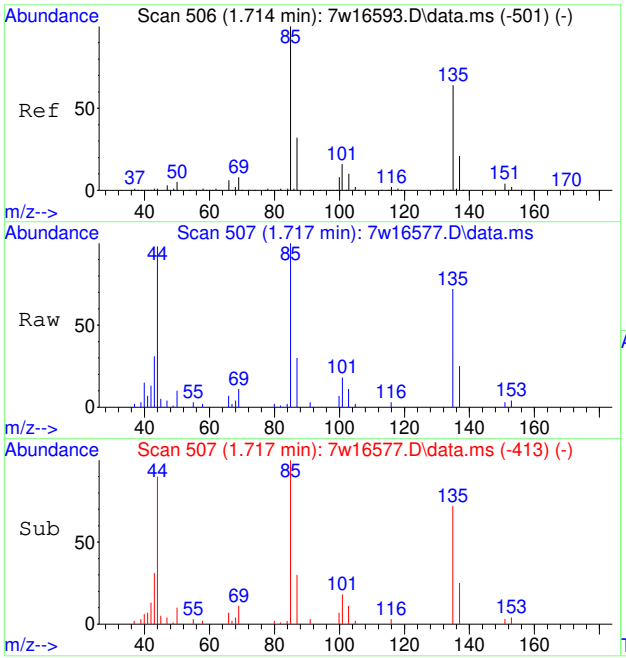


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.11 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 2846

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	35.0	17.0	31.6#

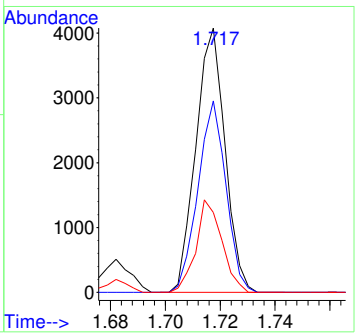


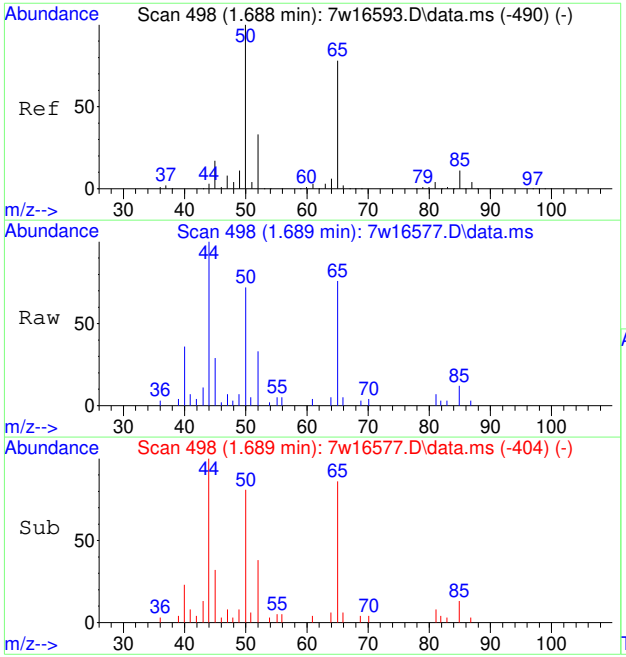


#9
FREON 114
Concen: 0.10 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3009

Ion	Ratio	Lower	Upper
85	100		
135	69.5	61.3	113.9
87	31.1	23.2	43.0

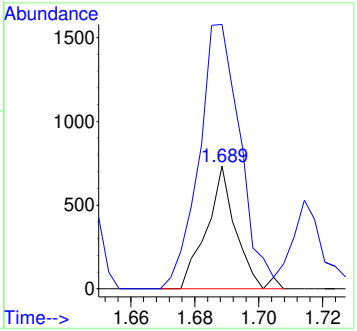


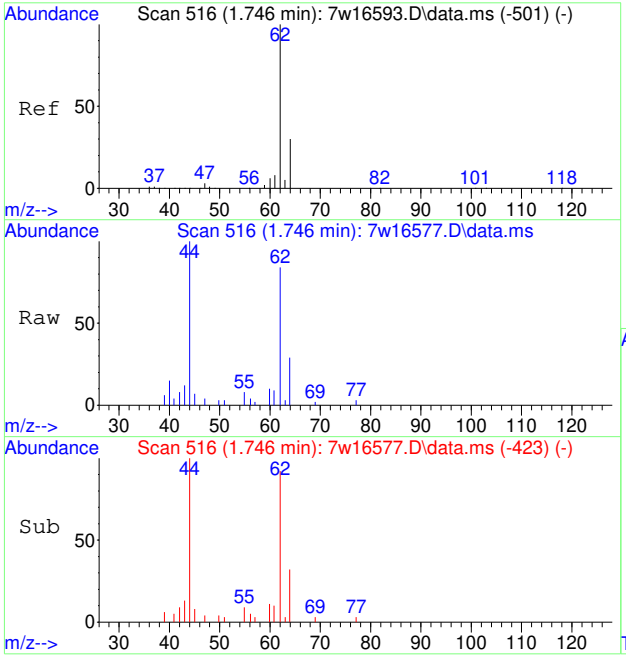


#10
CHLOROMETHANE
Concen: 0.12 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 52 Resp: 465

Ion	Ratio	Lower	Upper
52	100		
50	309.9	227.6	422.6

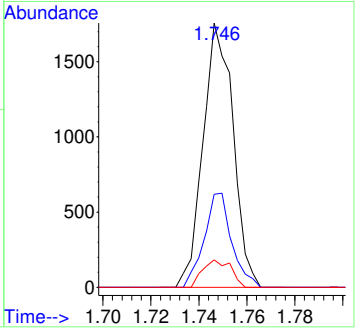


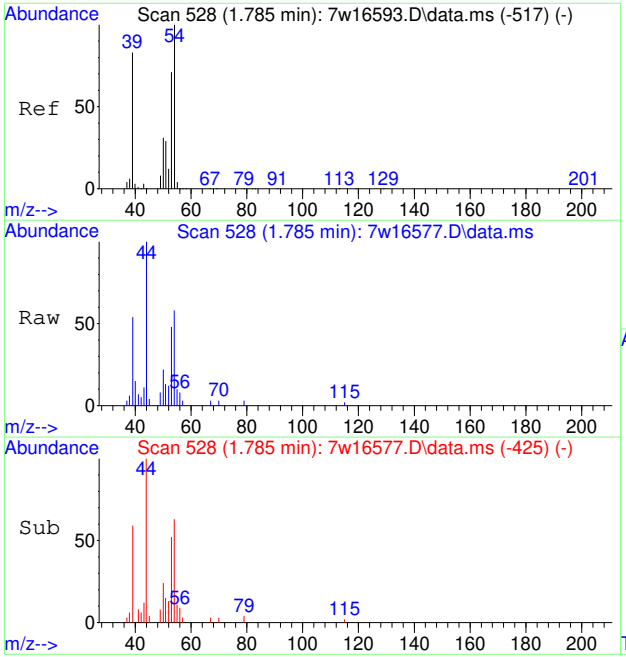


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 1526

Ion	Ratio	Lower	Upper
62	100		
64	32.6	21.6	40.2
61	9.8	5.7	10.7

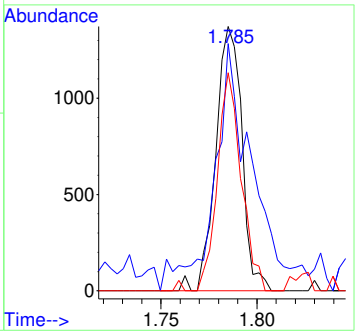


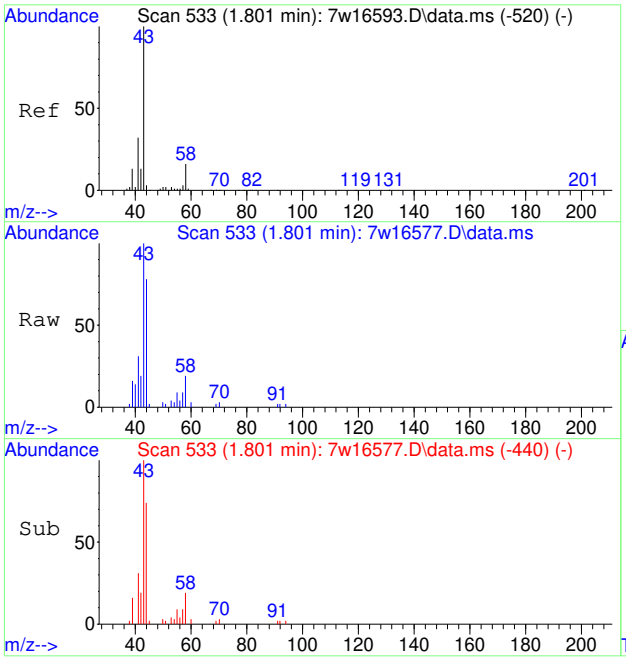


#12
1,3-BUTADIENE
Concen: 0.12 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 54 Resp: 1299

Ion	Ratio	Lower	Upper
54	100		
39	136.5	125.6	185.6
53	75.2	40.7	100.7

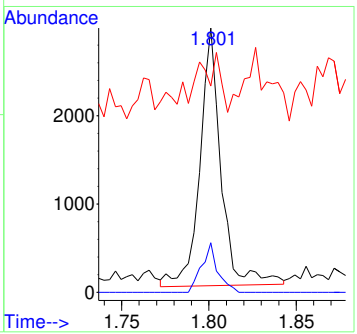


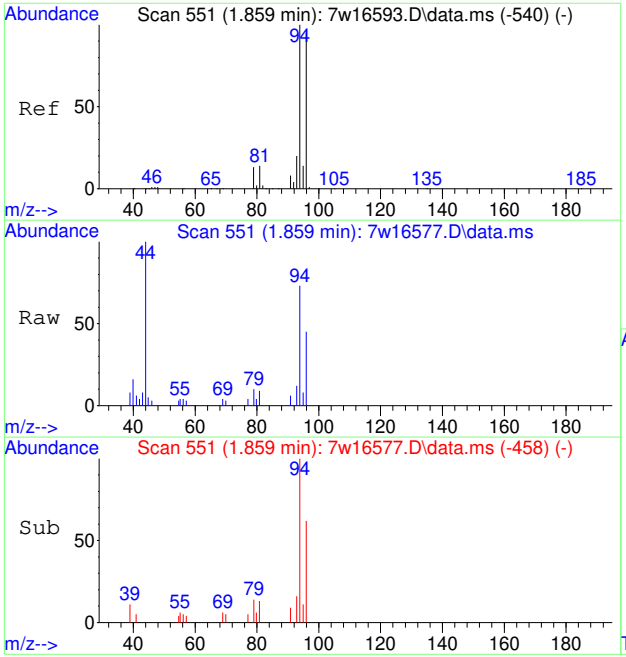


#13
N-BUTANE
Concen: 0.13 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2465

Ion	Ratio	Lower	Upper
43	100		
58	14.6	10.4	19.4
44	79.0	3.0	5.6#

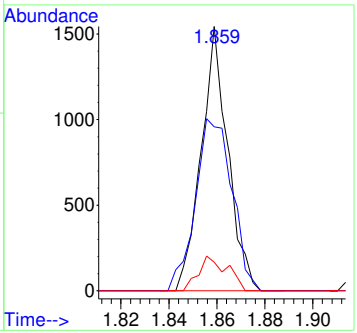


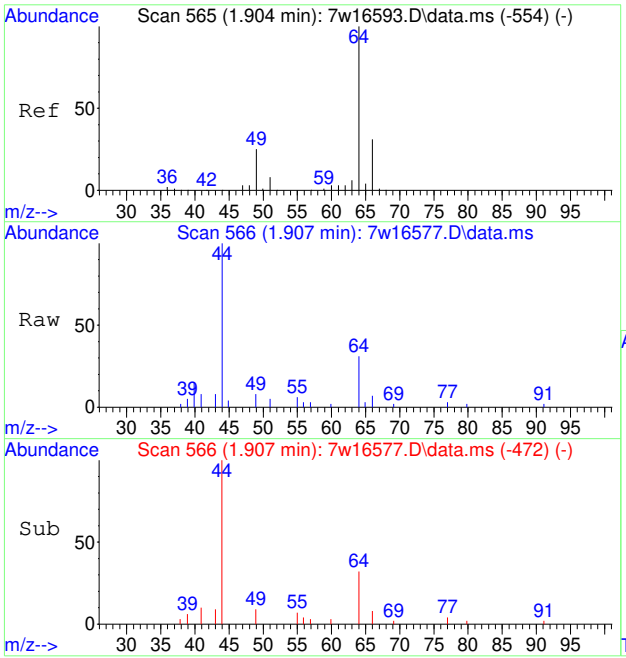


#14
BROMOMETHANE
Concen: 0.11 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 94 Resp: 1194

Ion	Ratio	Lower	Upper
94	100		
96	89.2	63.6	118.0
95	14.1	10.0	18.6

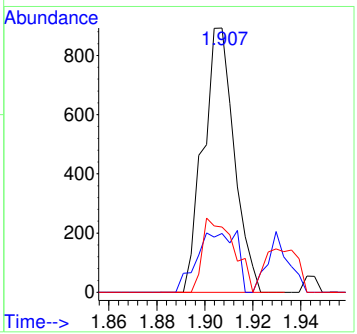


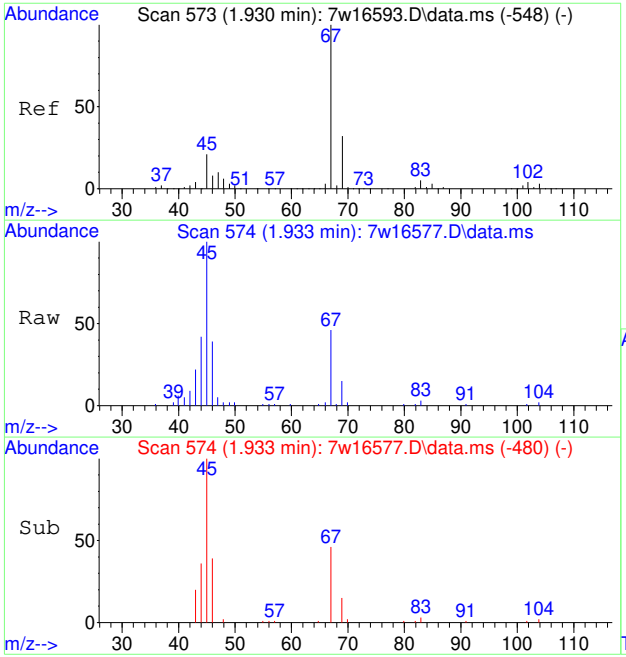


#15
CHLOROETHANE
Concen: 0.11 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 64 Resp: 800

Ion	Ratio	Lower	Upper
64	100		
66	29.4	23.0	42.6
49	28.2	21.5	39.9

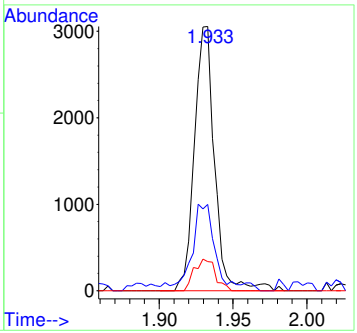


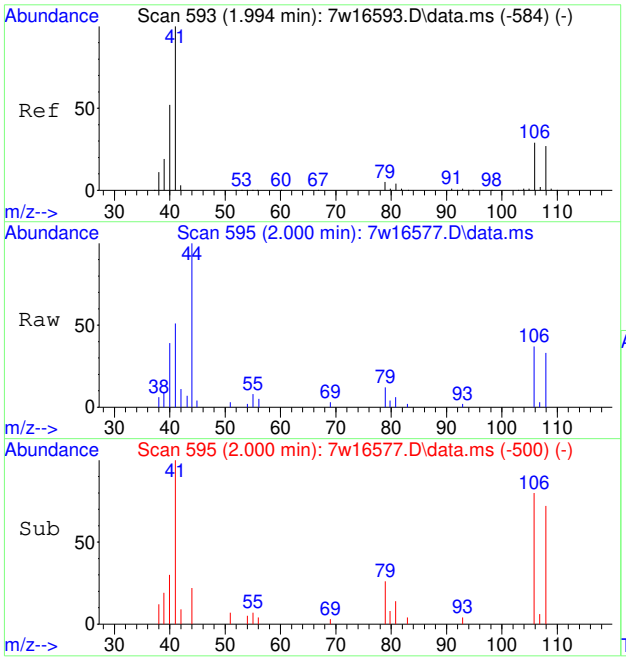


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 2916

Ion	Ratio	Lower	Upper
67	100		
69	39.0	23.2	43.0
47	12.6	9.6	17.8

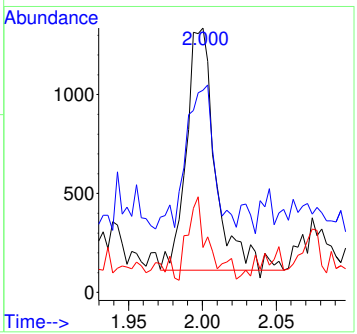


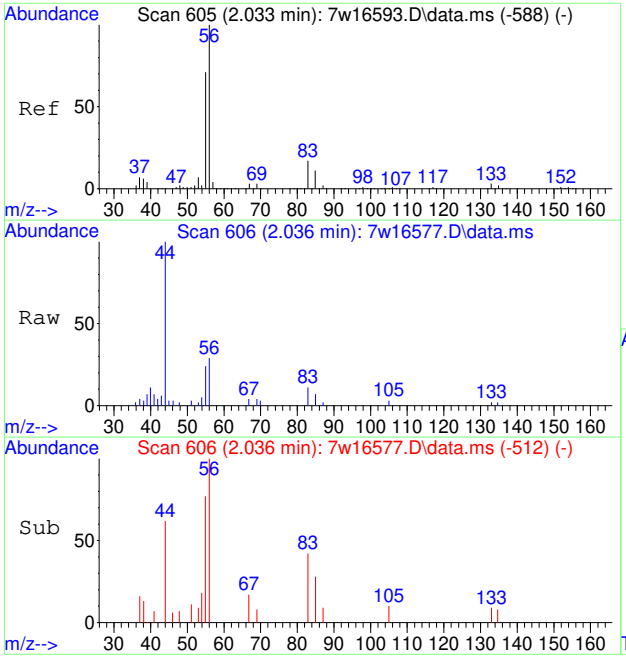


#17
ACETONITRILE
Concen: 0.14 PPBV
RT: 2.000 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1673

Ion	Ratio	Lower	Upper
41	100		
40	54.7	38.4	71.4
39	36.0	14.5	26.9#

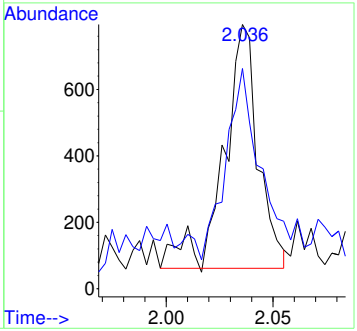


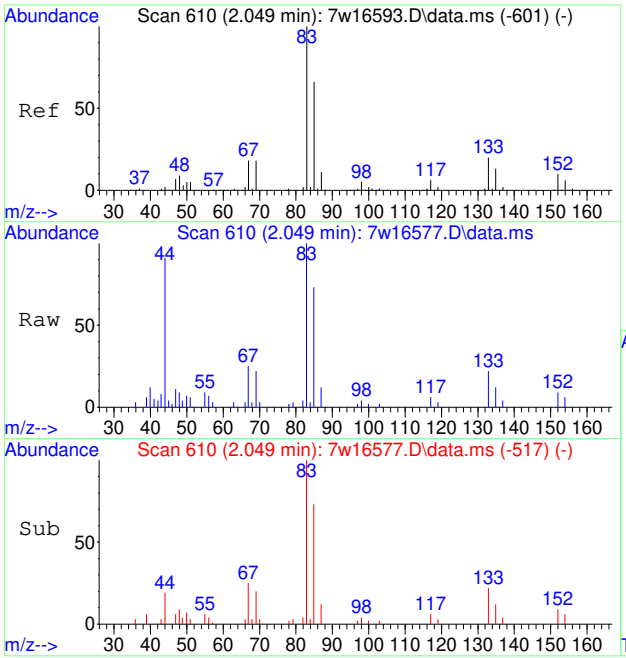


#18
ACROLEIN
Concen: 0.13 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 56 Resp: 823

Ion	Ratio	Lower	Upper
56	100		
55	85.2	51.2	95.2

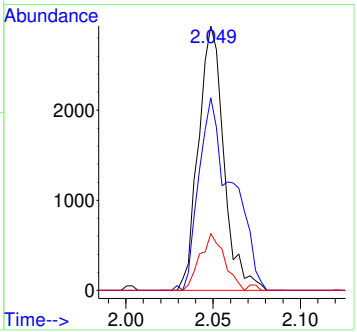


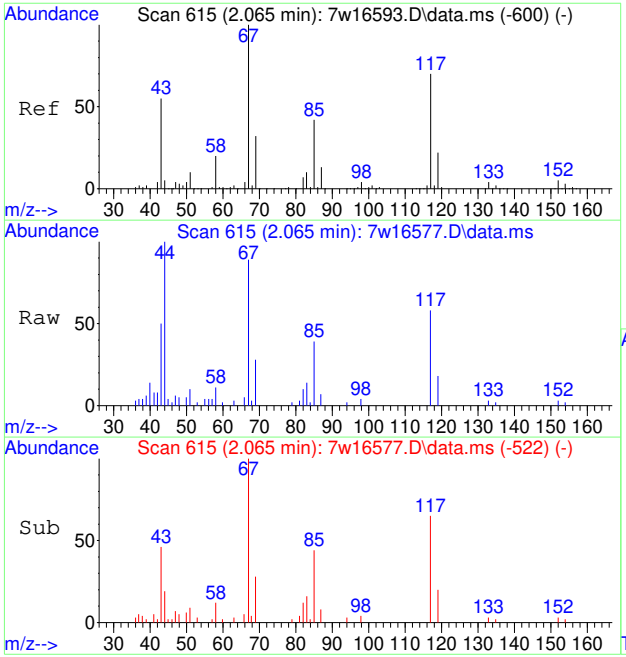


#19
FREON 123
Concen: 0.11 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2970

Ion	Ratio	Lower	Upper
83	100		
85	95.5	65.7	121.9
133	21.5	19.9	36.9

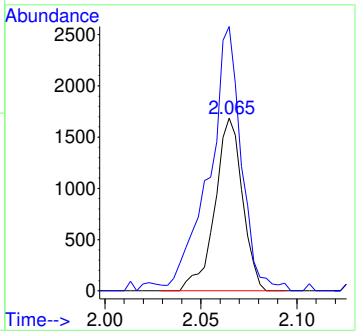


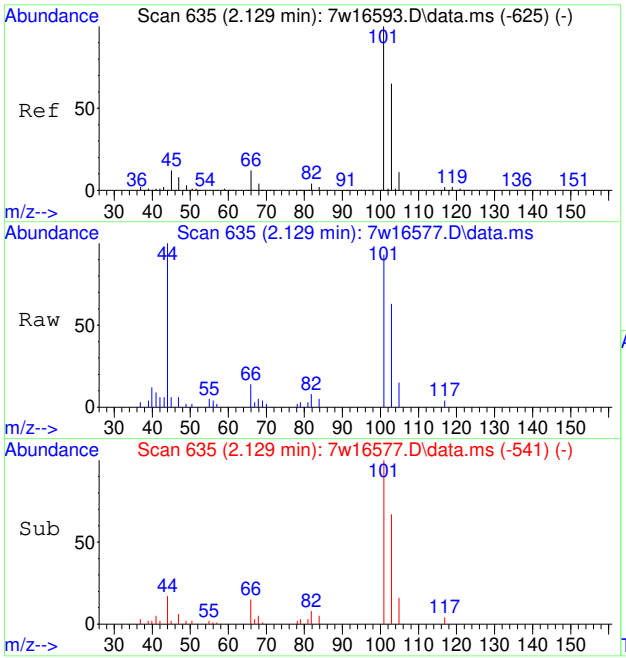


#20
FREON 123A
Concen: 0.10 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 1678

Ion	Ratio	Lower	Upper
117	100		
67	184.8	78.8	146.4#

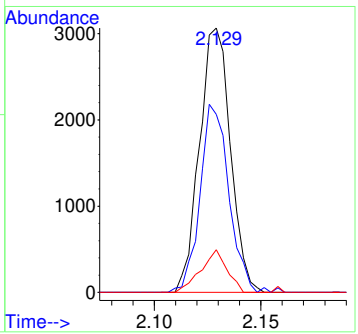


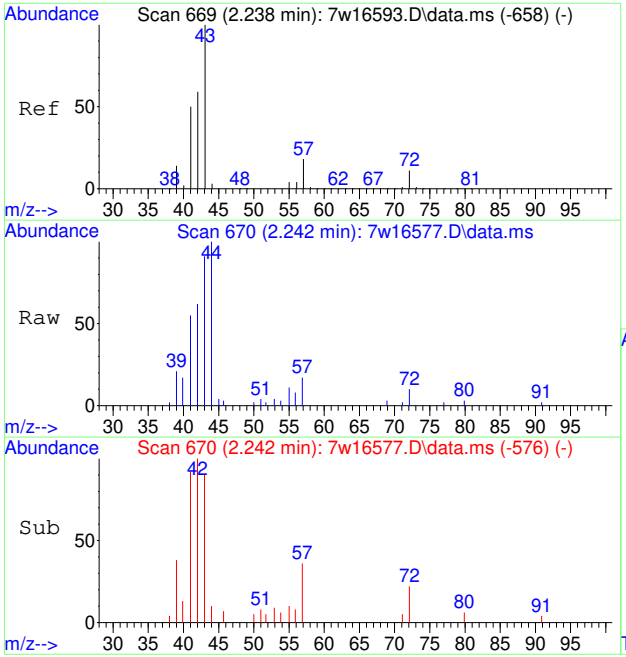


#21
TRICHLOROFLUOROMETHANE
Concen: 0.10 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:101 Resp: 3103

Ion	Ratio	Lower	Upper
101	100		
103	66.1	44.3	82.3
105	13.6	7.3	13.7

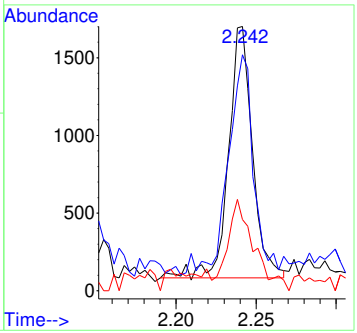


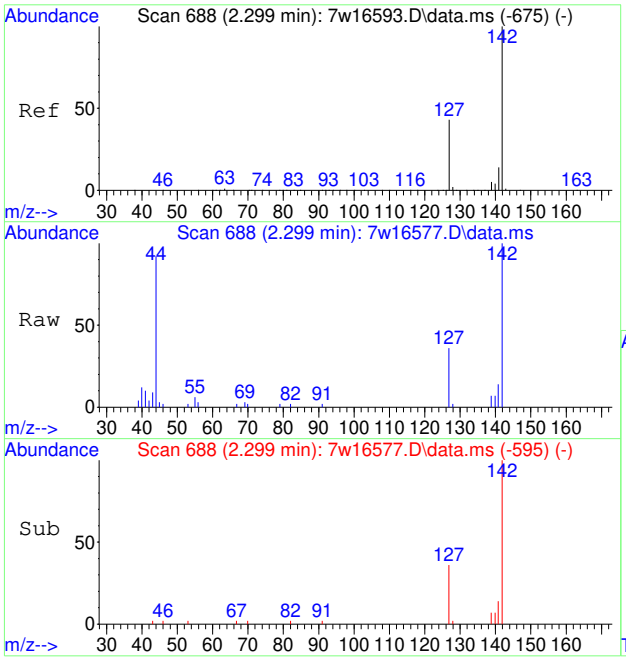


#24
PENTANE
Concen: 0.13 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 42 Resp: 1687

Ion	Ratio	Lower	Upper
42	100		
41	96.6	69.2	128.6
57	46.8	18.6	34.6#

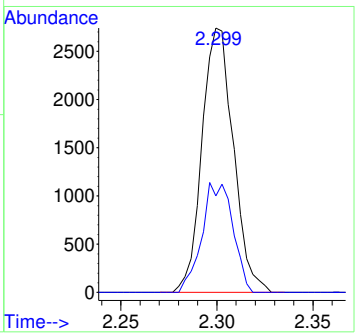


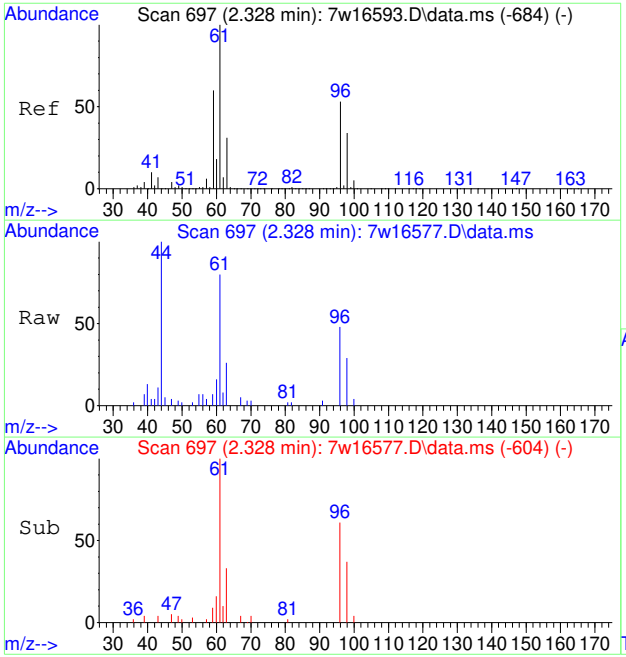


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:142 Resp: 3122

Ion	Ratio	Lower	Upper
142	100		
127	40.9	32.1	59.7

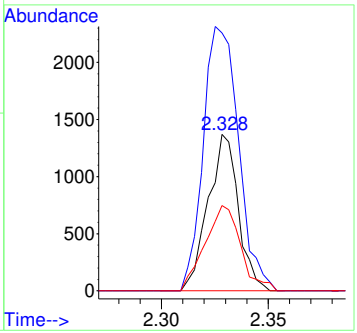


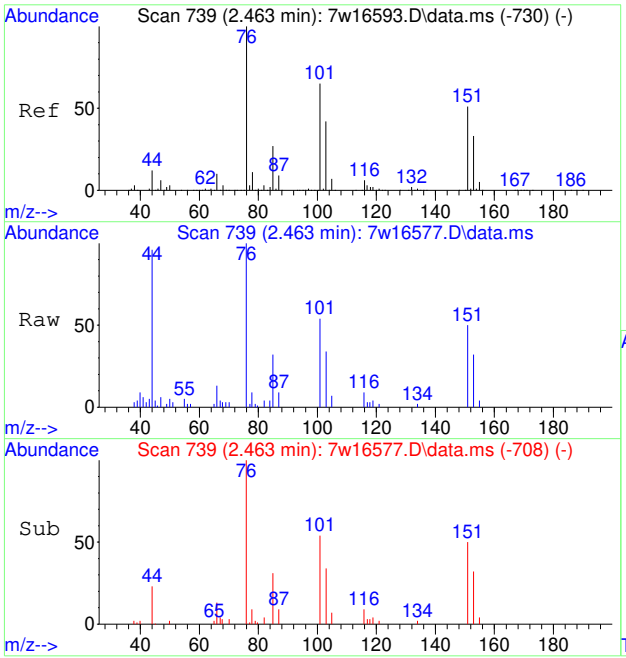


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1351

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	64.3	33.2	61.7#

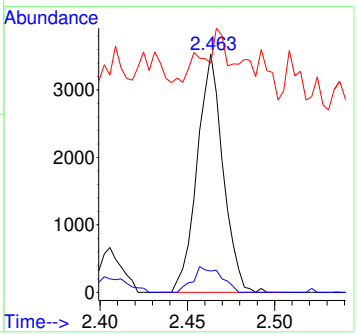


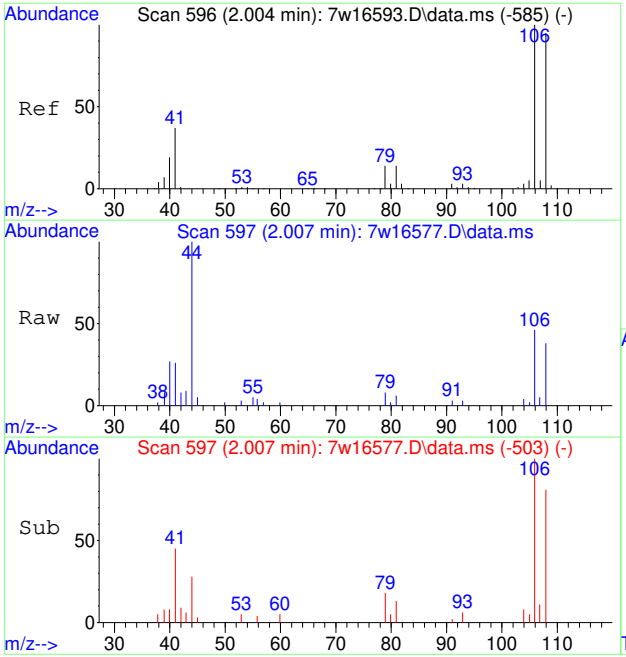


#27
CARBON DISULFIDE
Concen: 0.11 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 3643

Ion	Ratio	Lower	Upper
76	100		
78	11.6	8.3	15.3
44	36.6	13.0	24.1#

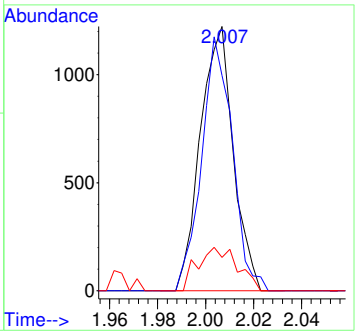


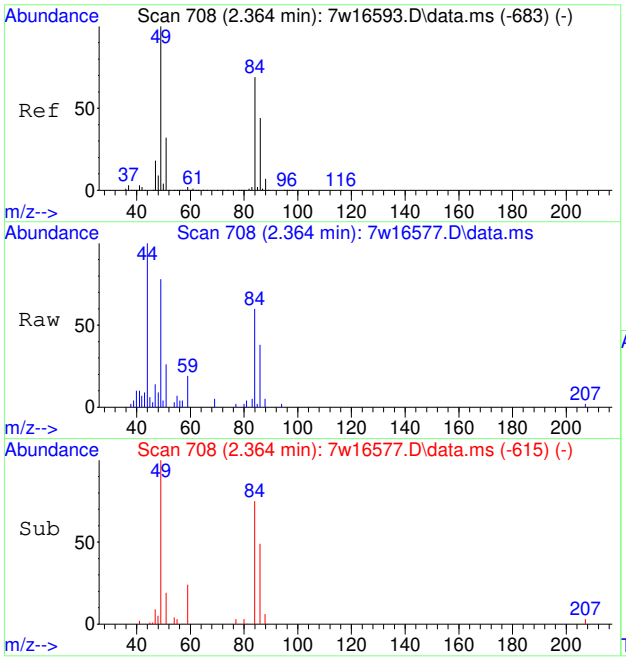


#29
BROMOETHENE
Concen: 0.10 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:106 Resp: 1160

Ion	Ratio	Lower	Upper
106	100		
108	90.0	68.3	126.8
81	20.0	14.7	27.3

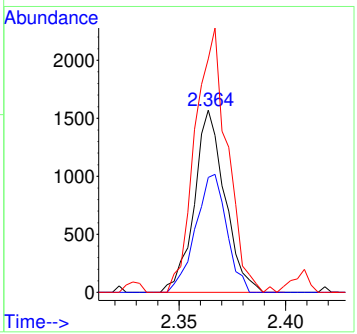


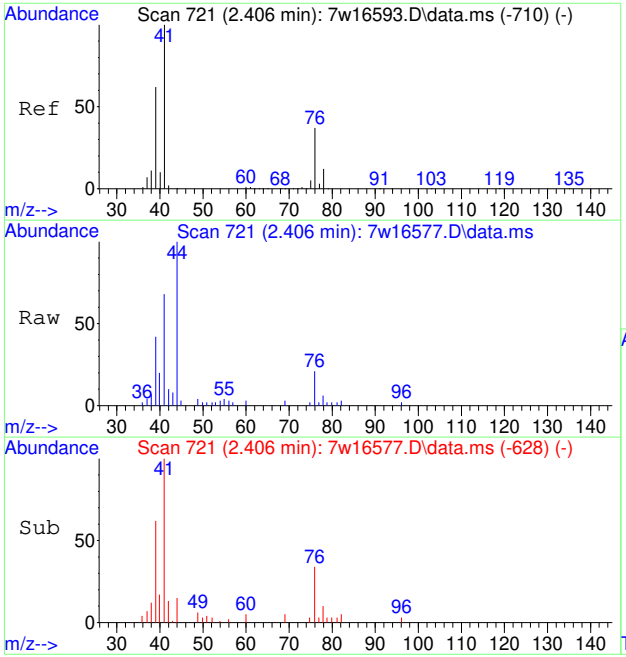


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1574

Ion	Ratio	Lower	Upper
84	100		
86	65.7	44.9	83.5
49	152.7	79.7	148.1#

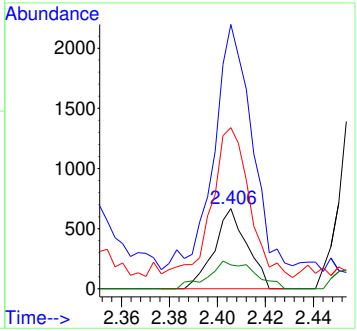


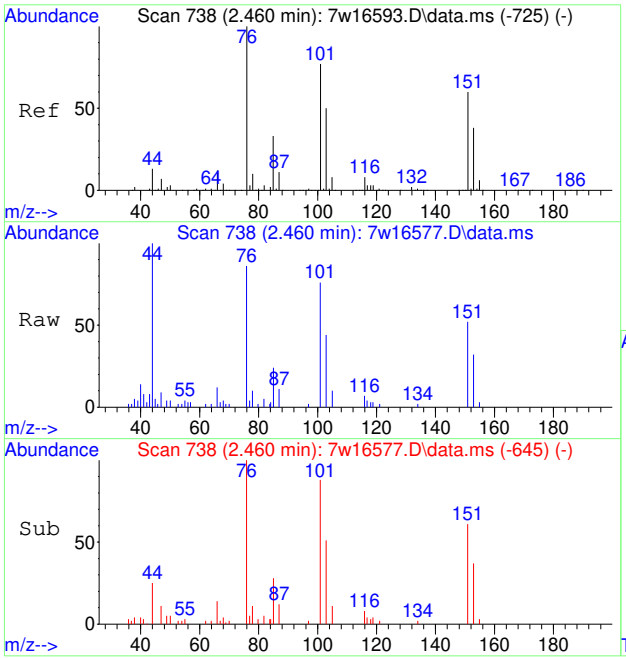


#32
3-CHLOROPROPENE
Concen: 0.10 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 631

Ion	Ratio	Lower	Upper
76	100		
41	375.9	160.9	298.9#
39	221.1	150.7	279.9
78	48.3	22.7	42.1#

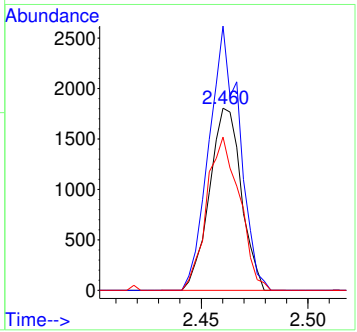


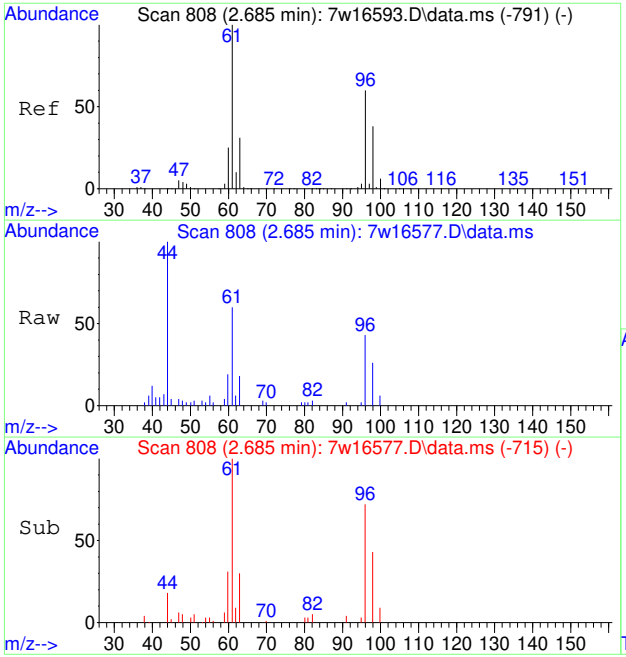


#33
FREON 113
Concen: 0.10 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:151 Resp: 1876

Ion	Ratio	Lower	Upper
151	100		
101	139.1	81.1	150.7
103	86.9	51.4	95.4

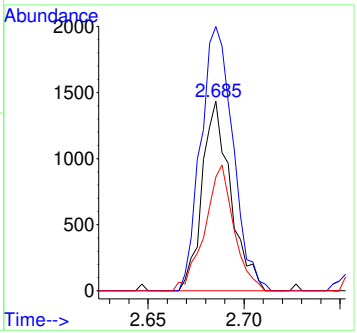


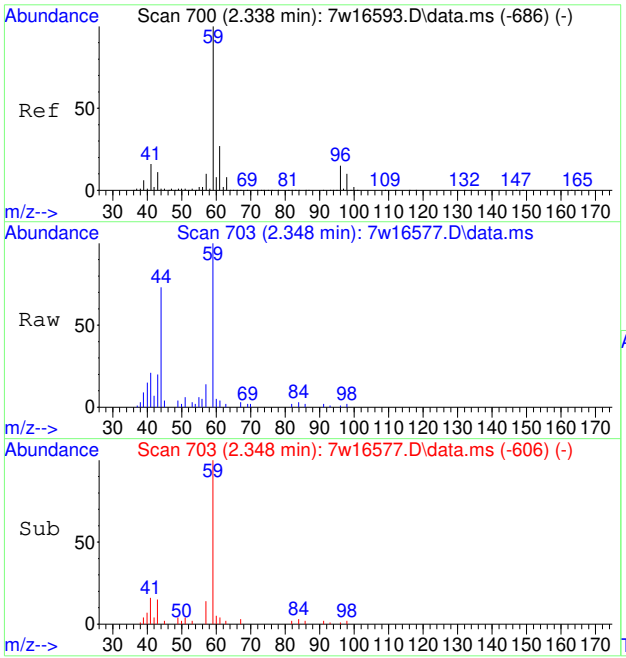


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.12 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1480

Ion	Ratio	Lower	Upper
96	100		
61	157.9	78.5	145.9#
98	67.7	46.5	86.3

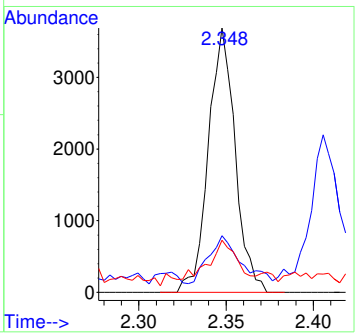


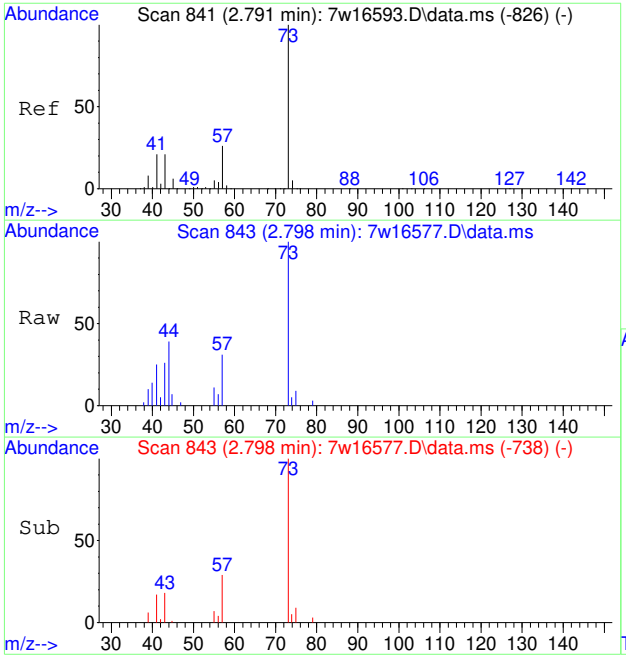


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.12 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 3930

Ion	Ratio	Lower	Upper
59	100		
41	20.7	15.3	28.5
43	26.0	12.3	22.9#

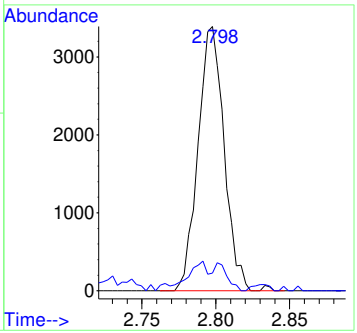


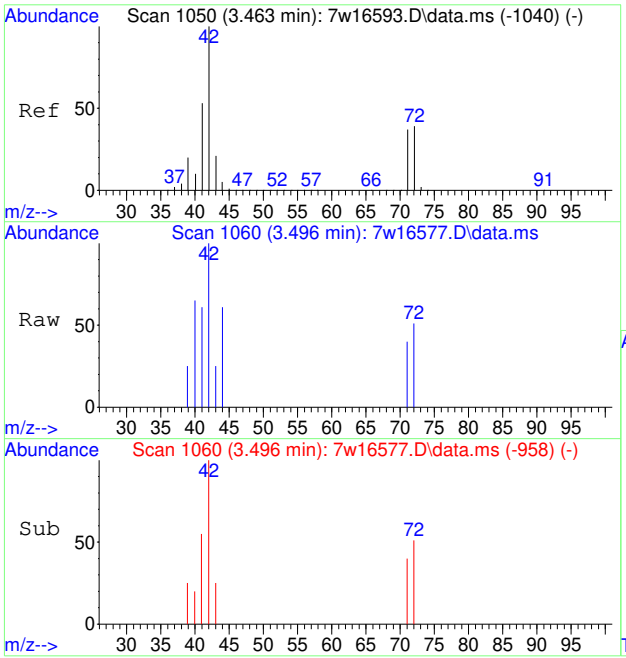


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.11 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 73 Resp: 4162

Ion	Ratio	Lower	Upper
73	100		
45	14.6	3.4	6.4#

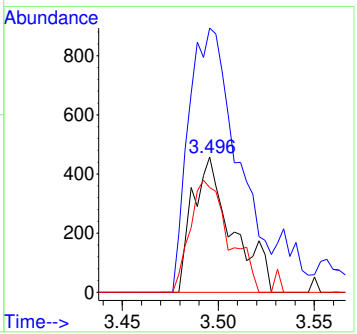


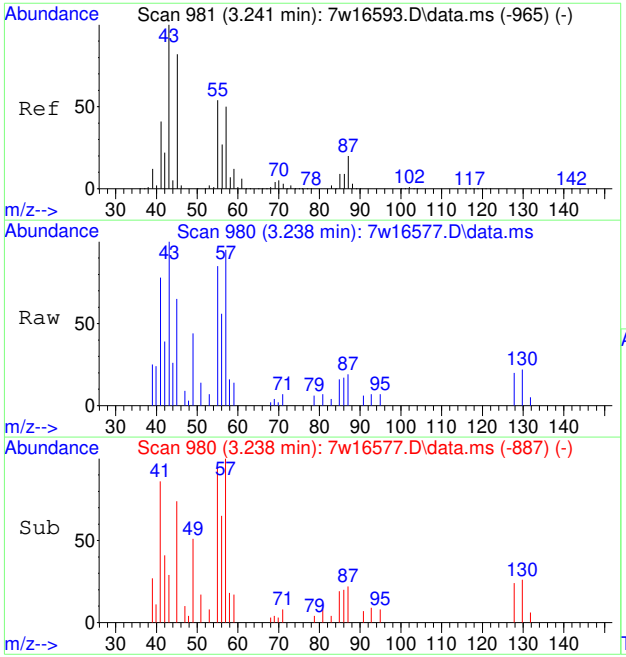


#37
TETRAHYDROFURAN
Concen: 0.11 PPBV
RT: 3.496 min Scan# 1060
Delta R.T. 0.029 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 660

Ion	Ratio	Lower	Upper
72	100		
42	239.2	153.0	284.2
71	81.4	62.7	116.5

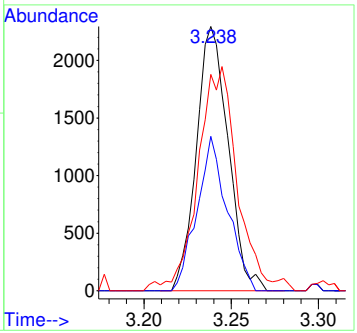


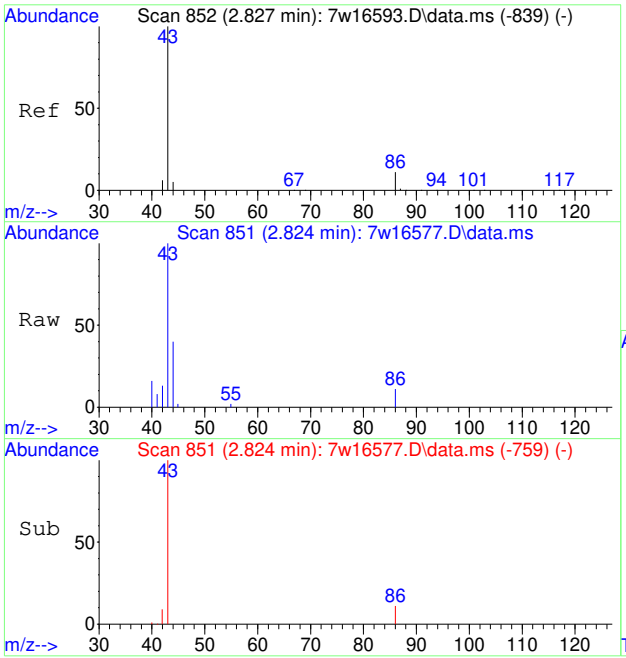


#38
HEXANE
Concen: 0.12 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 2906

Ion	Ratio	Lower	Upper
57	100		
56	55.8	37.3	69.3
41	105.2	86.7	161.1

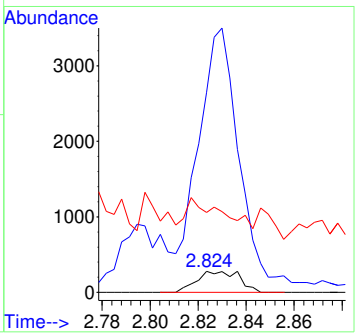


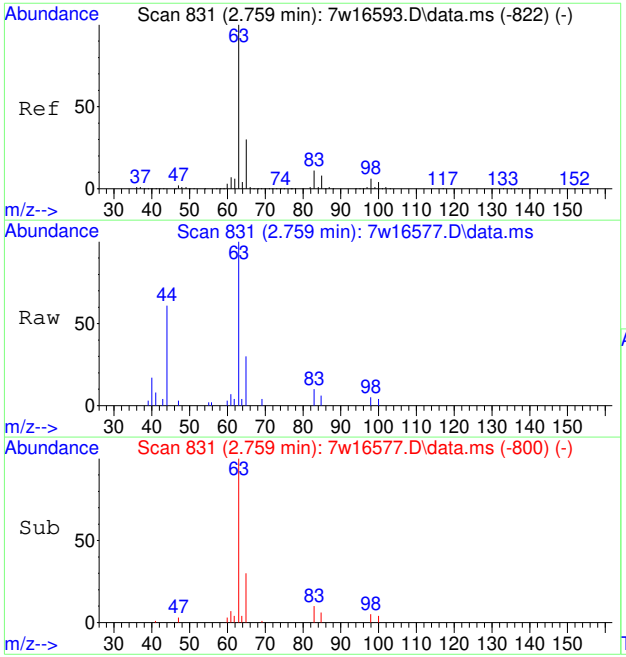


#39
VINYL ACETATE
Concen: 0.10 PPBV
RT: 2.824 min Scan# 851
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 86 Resp: 343

Ion	Ratio	Lower	Upper
86	100		
43	1525.9	667.9	1240.3#
44	241.7	32.7	60.7#

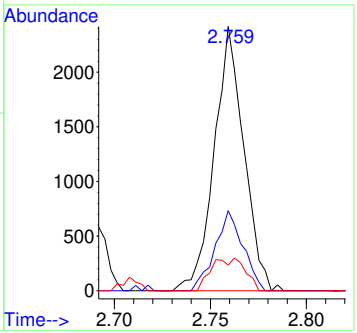


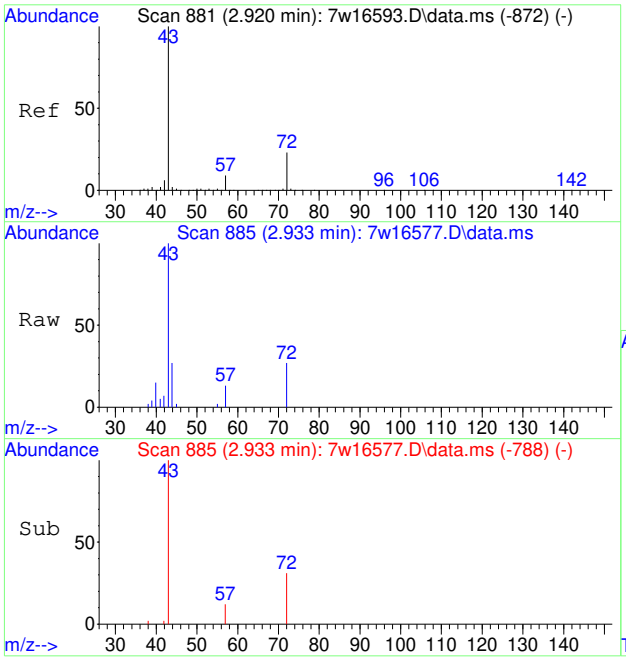


#40
1,1-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 2595

Ion	Ratio	Lower	Upper
63	100		
65	28.6	21.8	40.6
83	14.2	10.6	19.6

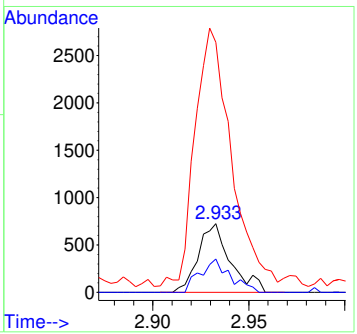


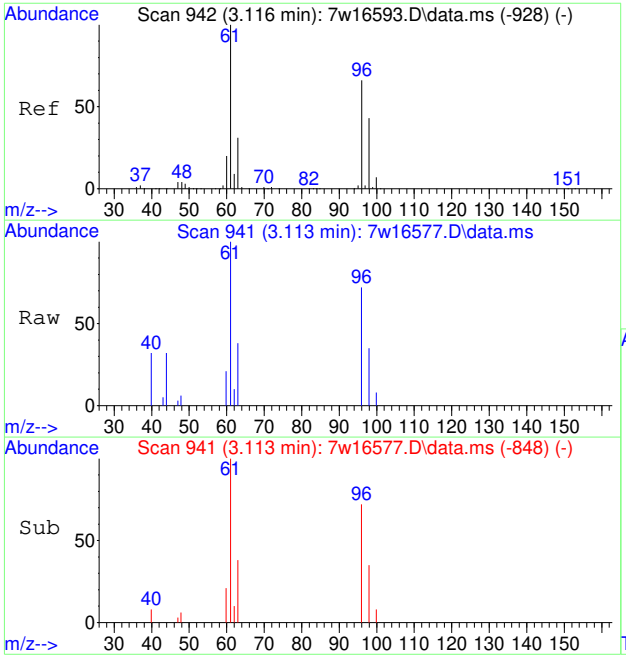


#41
METHYL ETHYL KETONE
Concen: 0.13 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 844

Ion	Ratio	Lower	Upper
72	100		
57	45.5	20.3	37.7#
43	437.0	282.8	525.2

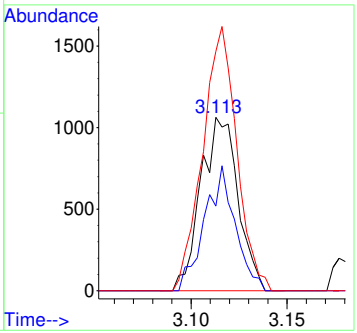


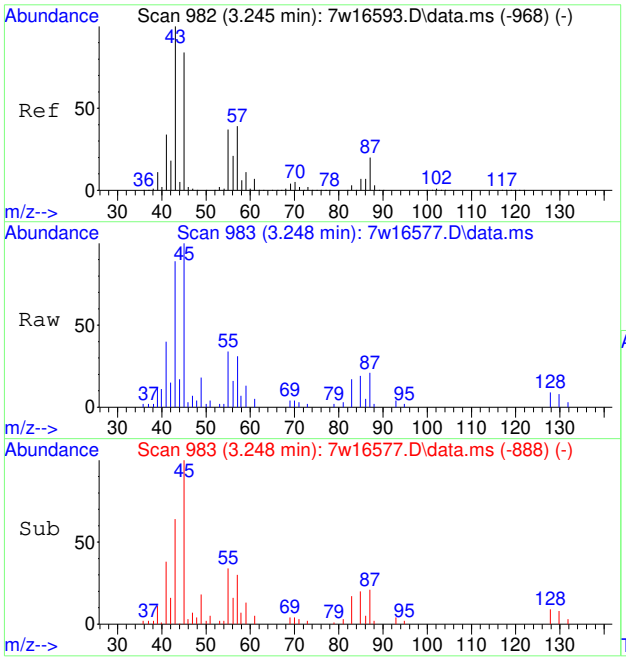


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.11 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1430

Ion	Ratio	Lower	Upper
96	100		
98	59.2	46.8	86.8
61	140.1	78.3	145.5

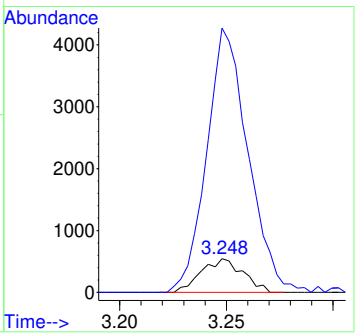


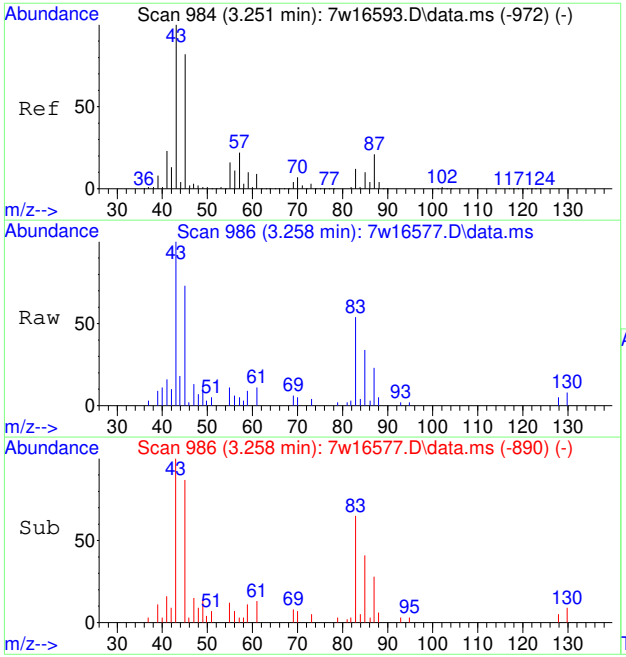


#43
DIISOPROPYL ETHER
Concen: 0.11 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 742

Ion	Ratio	Lower	Upper
59	100		
45	777.4	532.1	988.1

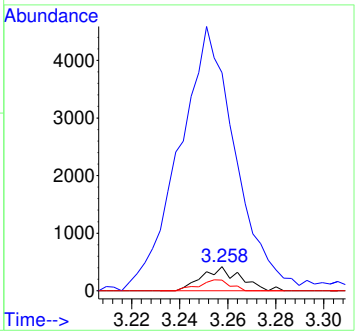


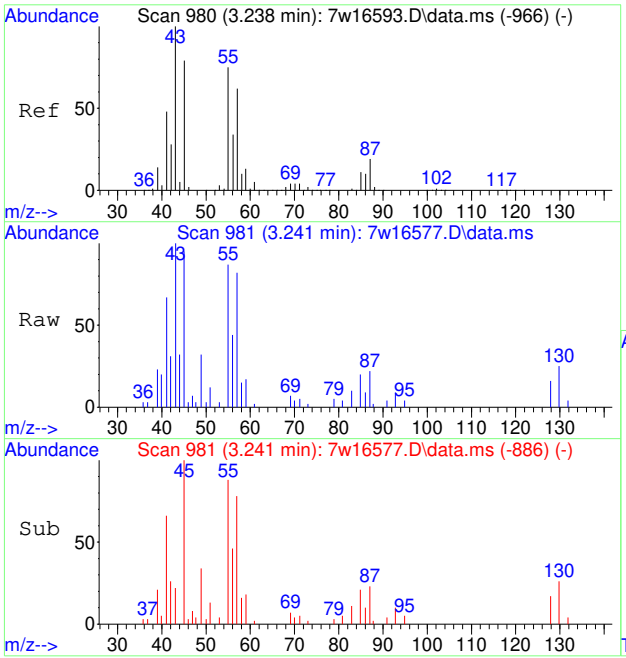


#44
ETHYL ACETATE
Concen: 0.09 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 61 Resp: 462

Ion	Ratio	Lower	Upper
61	100		
43	1690.7	1127.5	2093.9
88	36.8	36.2	67.2

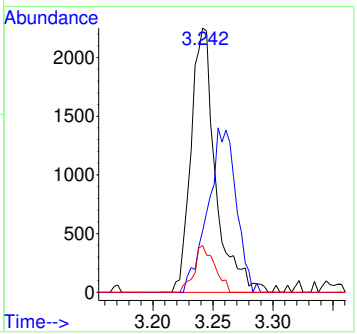


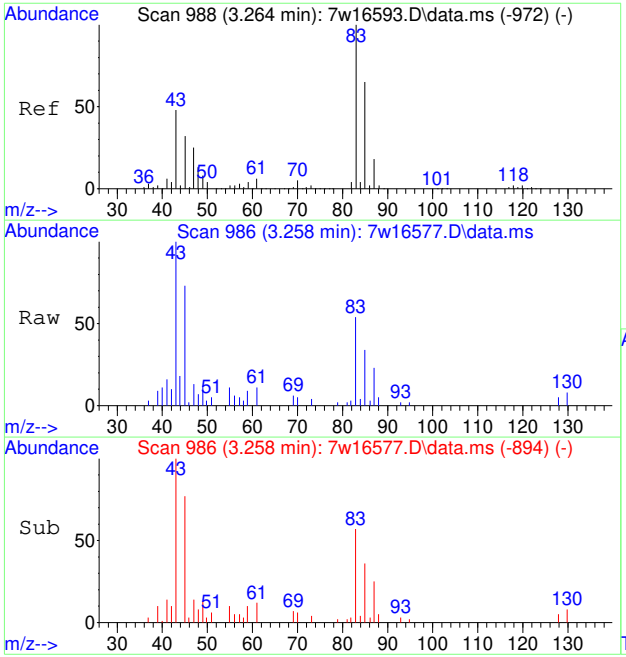


#45
METHYL ACRYLATE
Concen: 0.11 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3222

Ion	Ratio	Lower	Upper
55	100		
85	71.3	0.0	0.0#
58	14.6	9.2	17.0

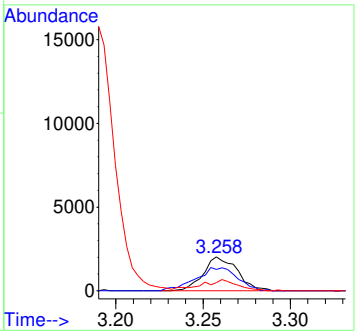


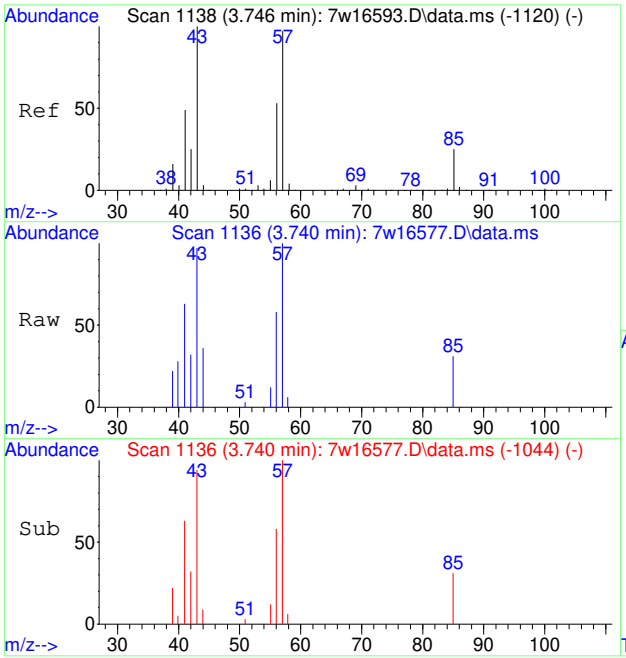


#46
CHLOROFORM
Concen: 0.10 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2745

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	35.4	17.9	33.3#

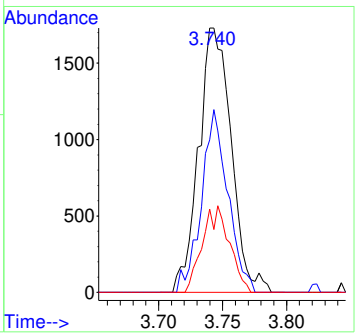


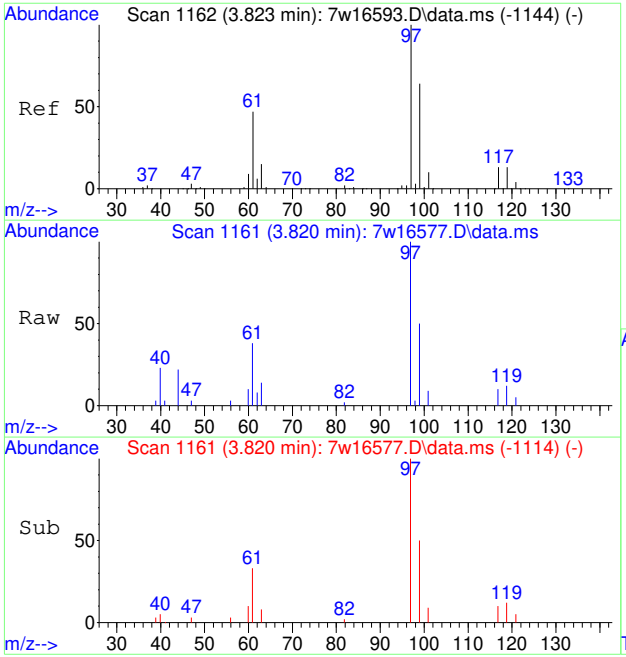


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 3064

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	27.2	24.1	44.7

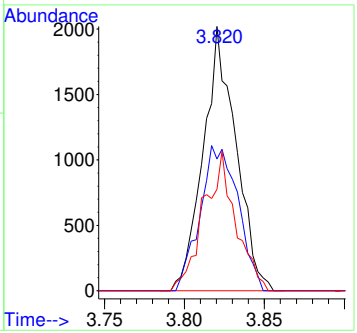


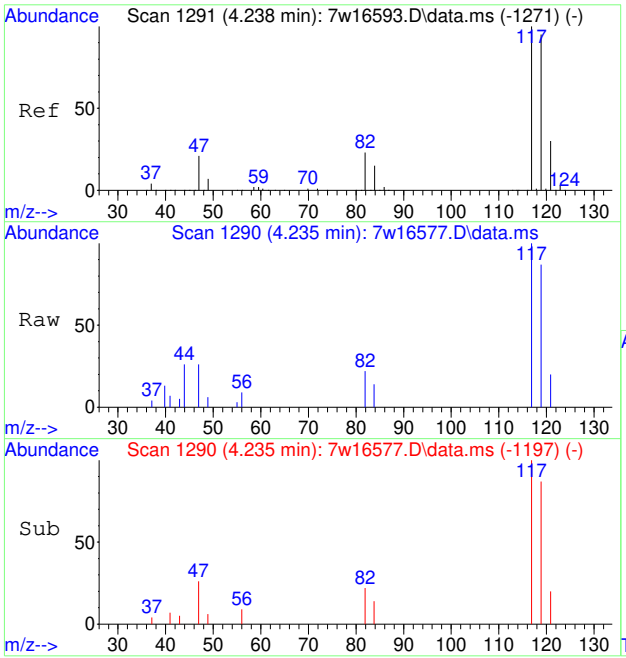


#48
1,1,1-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 97 Resp: 2869

Ion	Ratio	Lower	Upper
97	100		
99	63.8	44.9	83.5
61	51.8	28.6	53.0

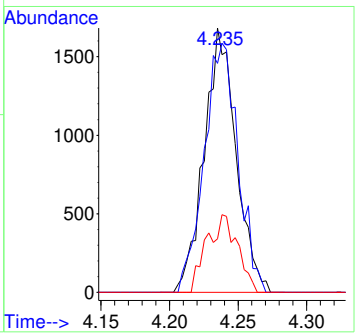


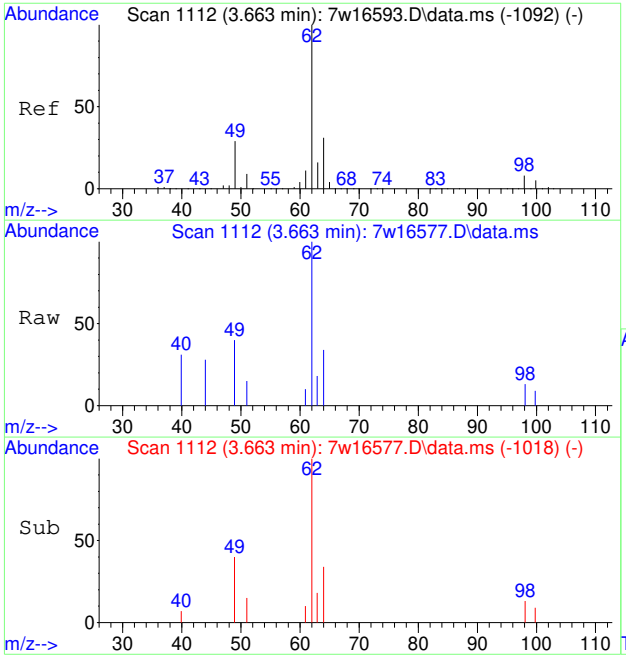


#49
CARBON TETRACHLORIDE
Concen: 0.09 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2721

Ion	Ratio	Lower	Upper
117	100		
119	100.0	68.8	127.8
121	28.2	22.2	41.2

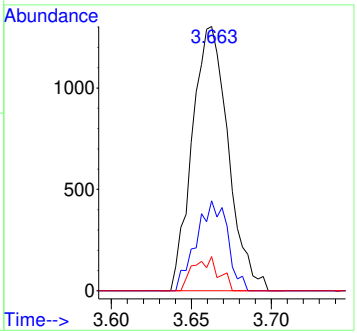


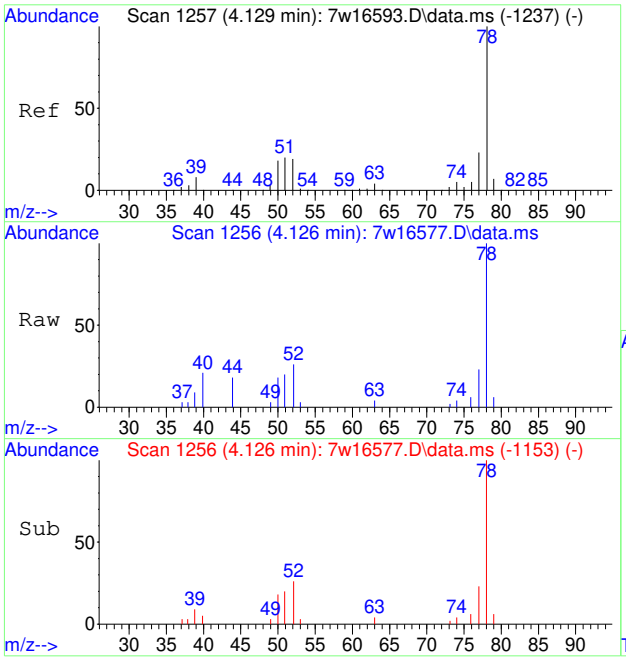


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 2043

Ion	Ratio	Lower	Upper
62	100		
64	29.5	22.5	41.7
98	9.2	6.8	12.6

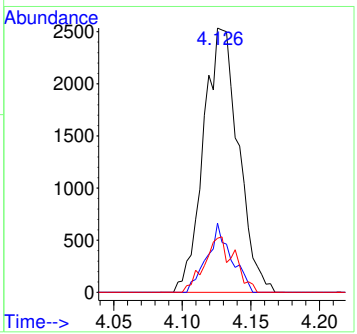


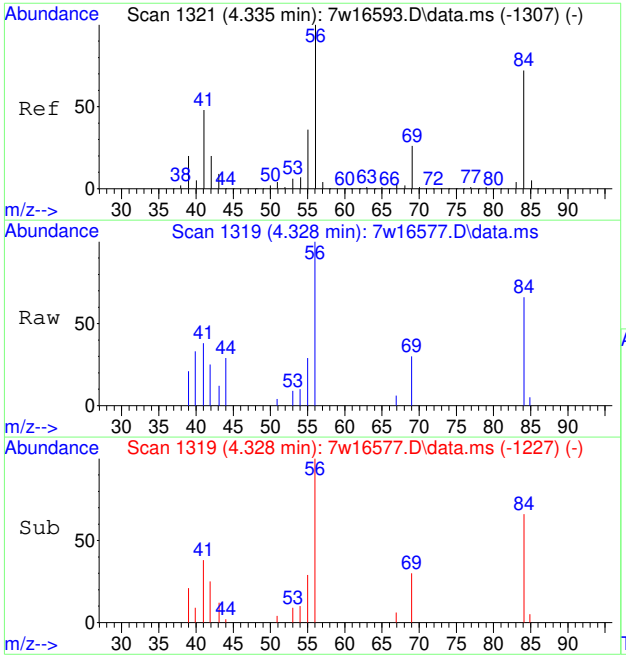


#51
BENZENE
Concen: 0.12 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 78 Resp: 4491

Ion	Ratio	Lower	Upper
78	100		
52	18.1	0.0	44.6
51	18.1	0.0	47.3

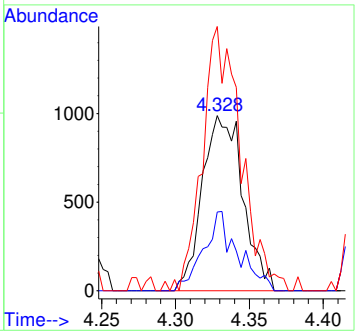


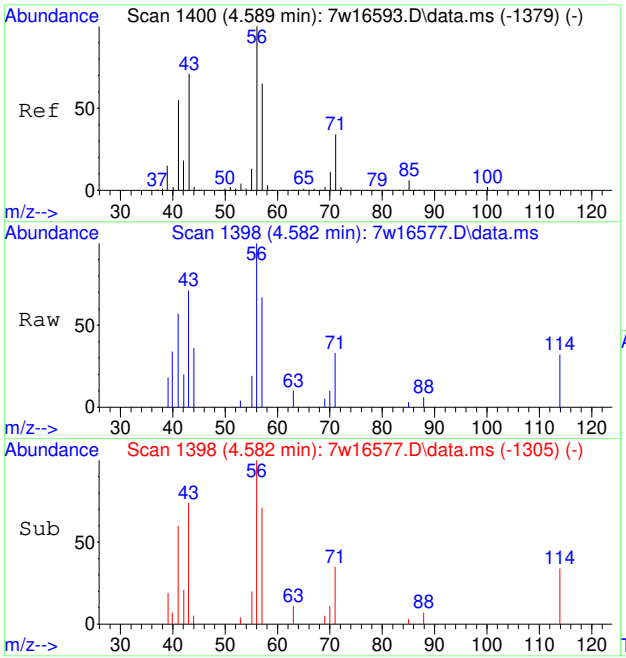


#53
CYCLOHEXANE
Concen: 0.11 PPBV
RT: 4.328 min Scan# 1319
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1883

Ion	Ratio	Lower	Upper
84	100		
69	37.8	22.3	41.5
56	143.3	70.2	130.4#

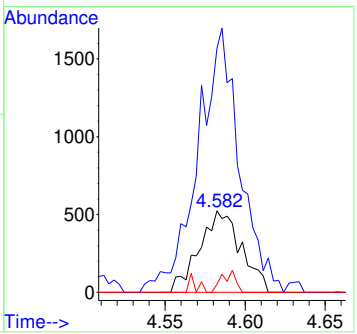


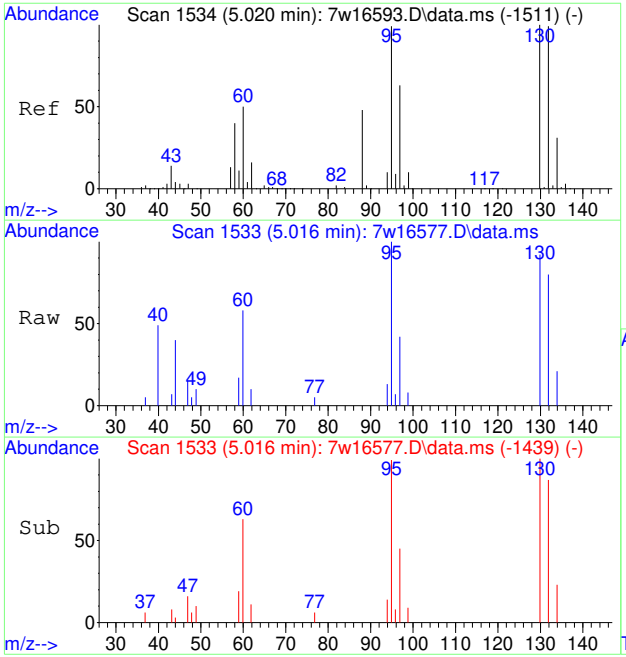


#54
2,3-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 71 Resp: 954

Ion	Ratio	Lower	Upper
71	100		
56	327.5	171.4	318.4#
85	8.9	12.6	23.4#

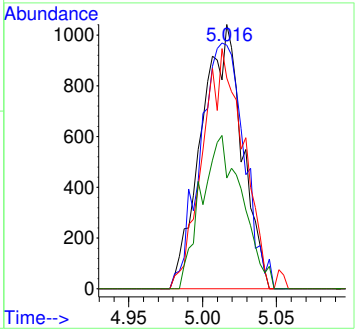


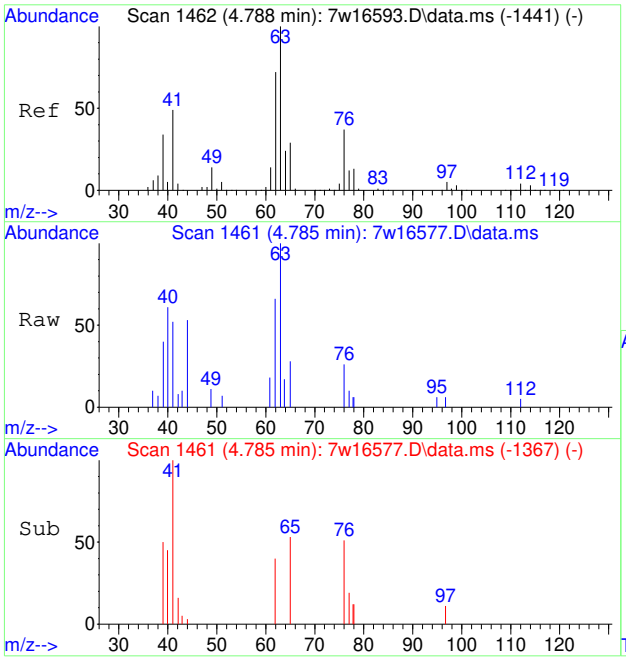


#55
TRICHLOROETHENE
Concen: 0.11 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 95 Resp: 1997

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	92.2	79.4	147.4
97	58.3	45.0	83.6

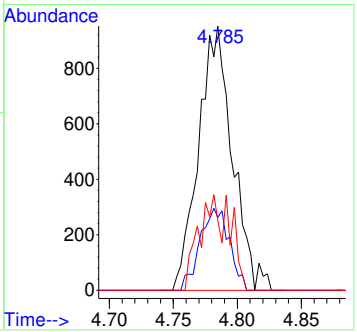


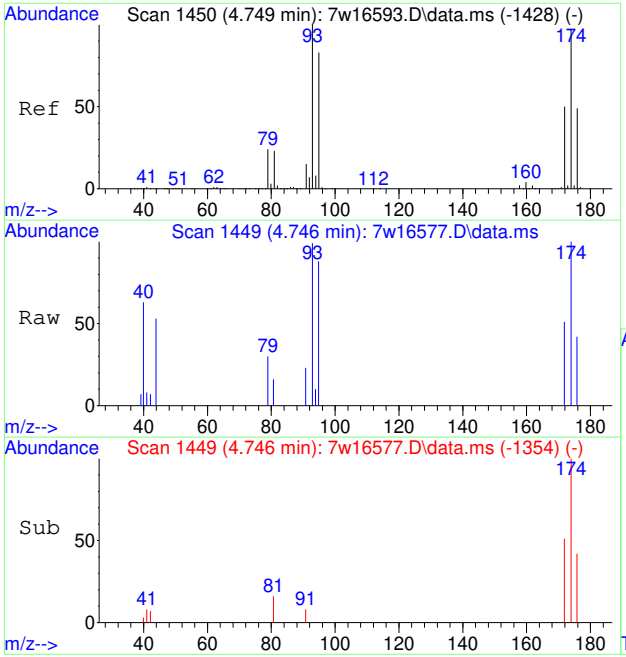


#56
1,2-DICHLOROPROPANE
Concen: 0.11 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 1753

Ion	Ratio	Lower	Upper
63	100		
65	26.8	22.6	42.0
76	32.9	31.8	59.0

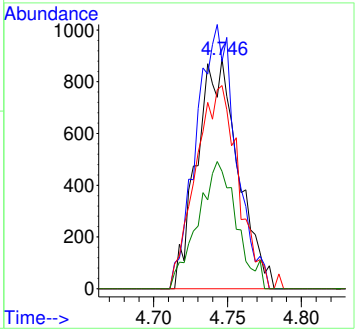


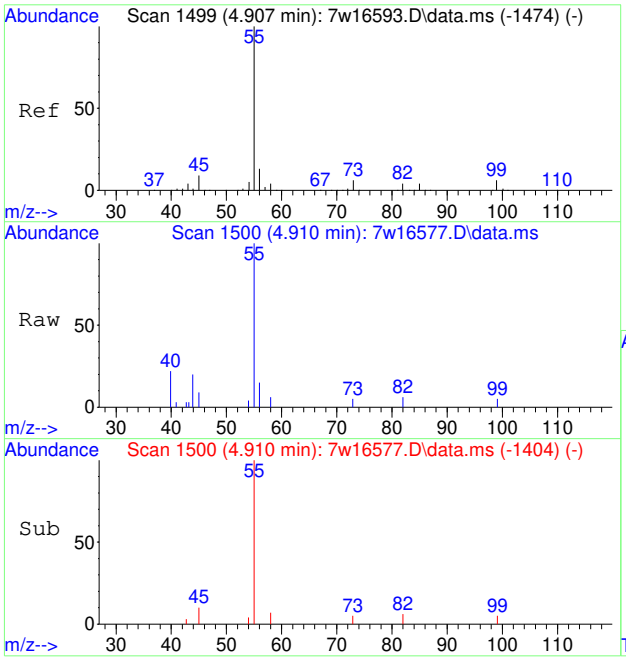


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:174 Resp: 1723

Ion	Ratio	Lower	Upper
174	100		
93	110.2	67.3	125.1
95	91.9	56.8	105.6
172	51.7	36.3	67.5

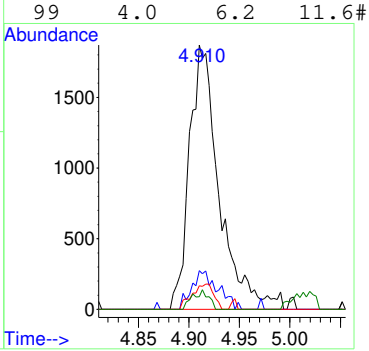


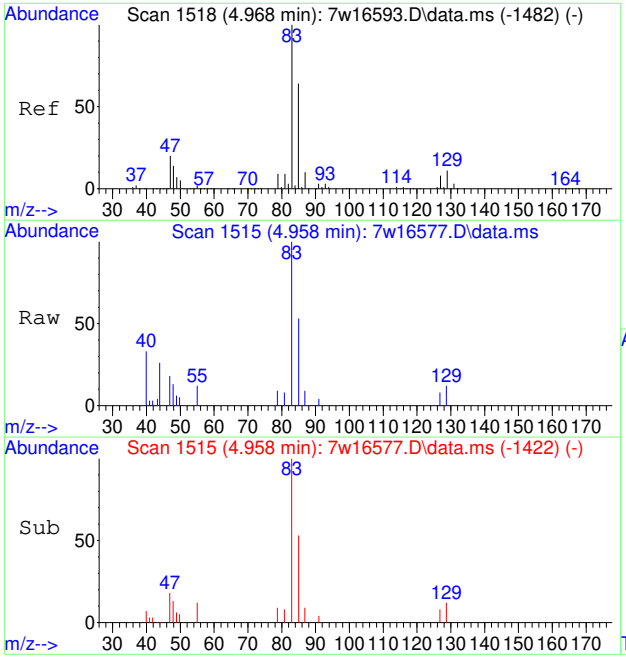


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV
RT: 4.910 min Scan# 1500
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3841

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	7.6	6.6	12.2
99	4.0	6.2	11.6#

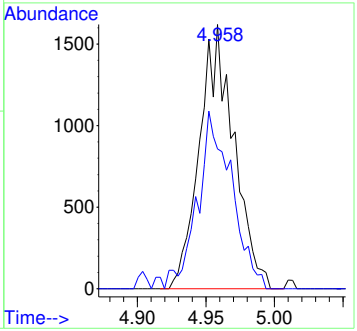


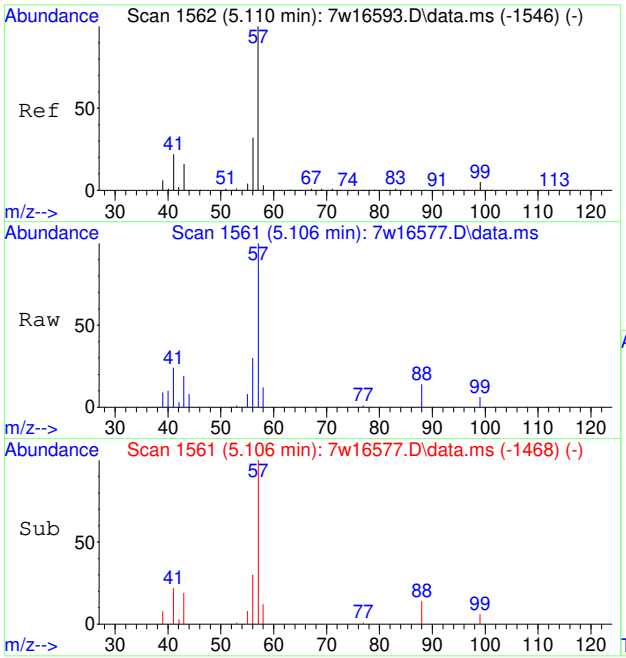


#59
BROMODICHLOROMETHANE
Concen: 0.09 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2818

Ion	Ratio	Lower	Upper
83	100		
85	67.7	44.9	83.5

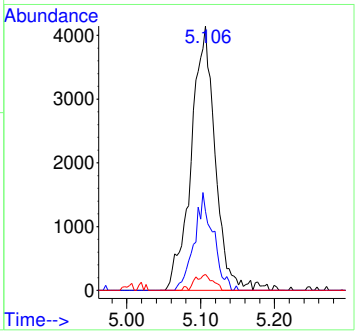


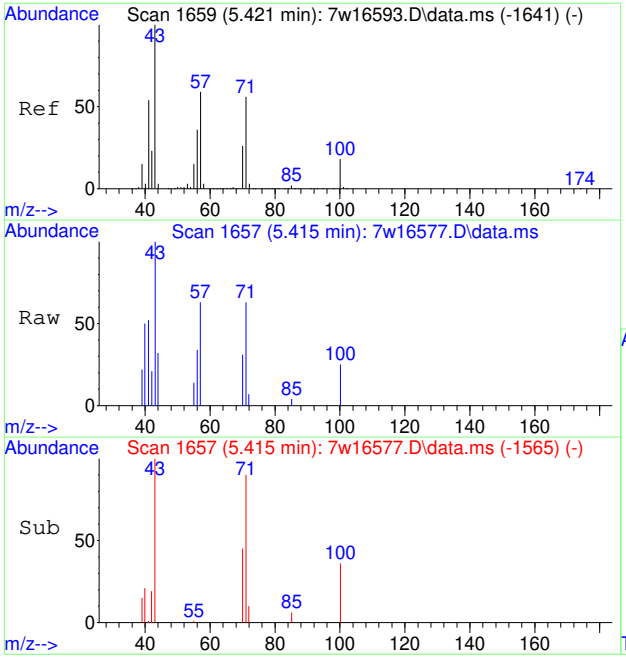


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.12 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 9397

Ion	Ratio	Lower	Upper
57	100		
56	29.2	24.4	45.2
99	4.5	5.2	9.6#

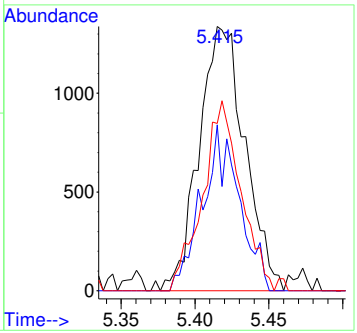


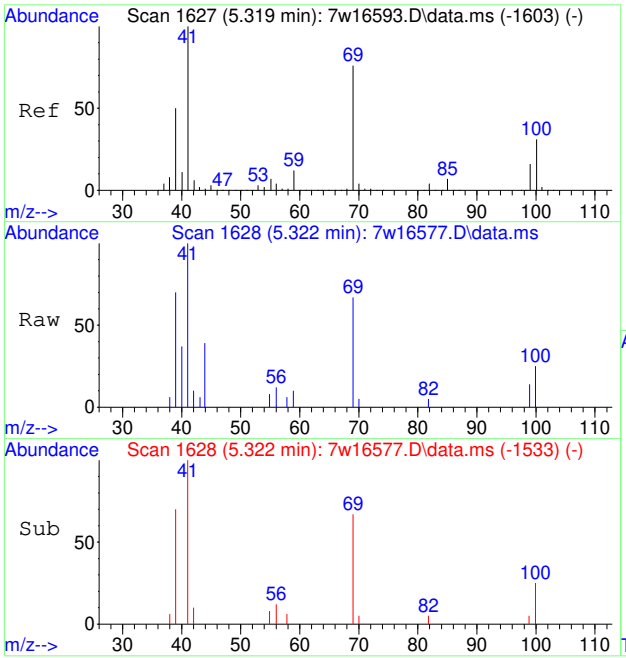


#62
HEPTANE
Concen: 0.11 PPBV
RT: 5.415 min Scan# 1657
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2892

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	60.8	37.2	69.0

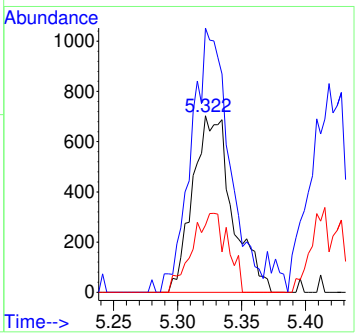


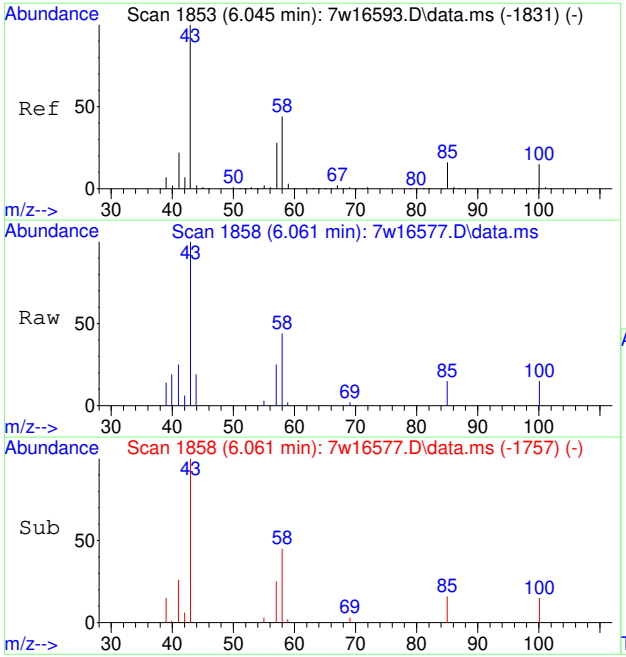


#63
METHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 1510

Ion	Ratio	Lower	Upper
69	100		
41	151.7	84.3	156.5
100	40.5	30.8	57.2

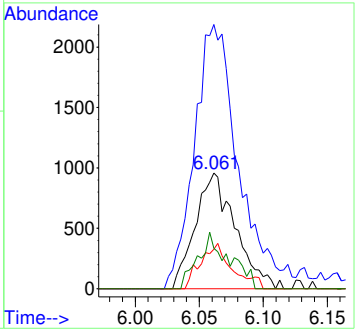


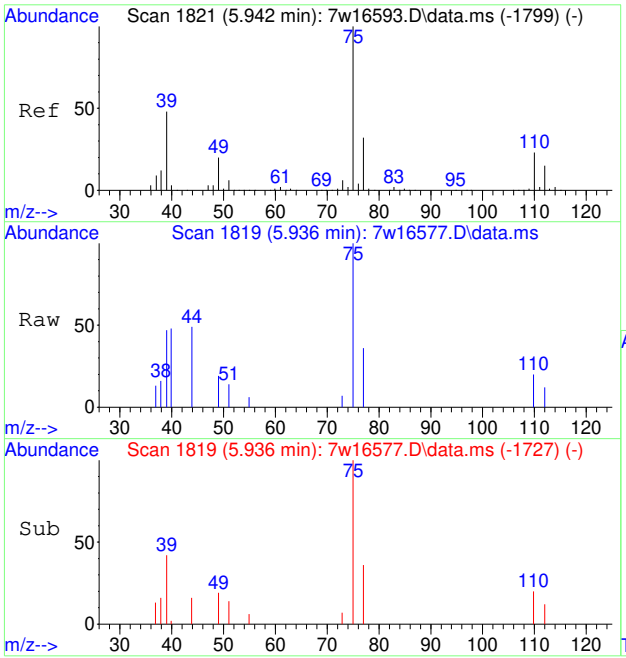


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 6.061 min Scan# 1858
Delta R.T. 0.026 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 2096

Ion	Ratio	Lower	Upper
58	100		
43	258.2	193.8	360.0
100	30.6	32.8	60.8#
85	37.5	33.3	61.9

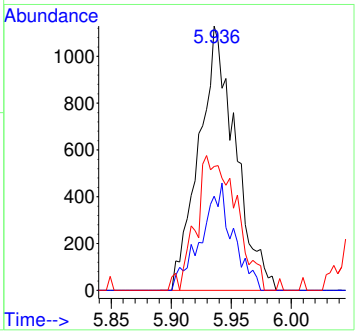


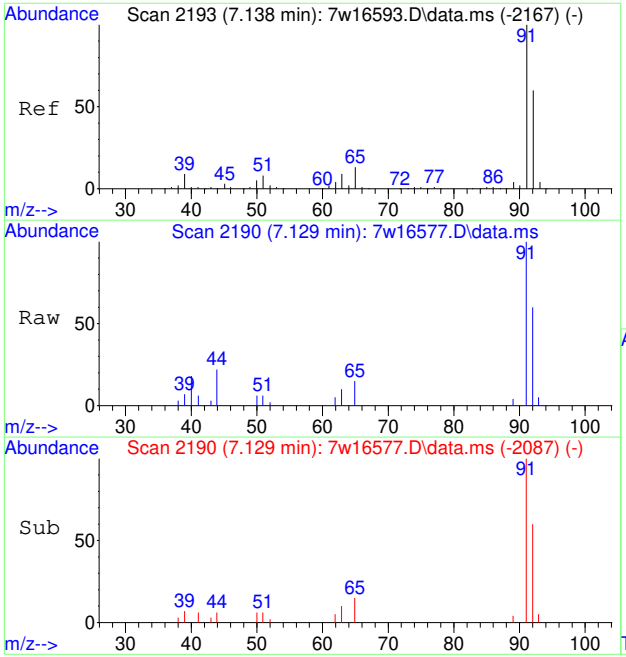


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.09 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2385

Ion	Ratio	Lower	Upper
75	100		
77	35.4	22.0	40.8
39	55.9	38.5	71.5

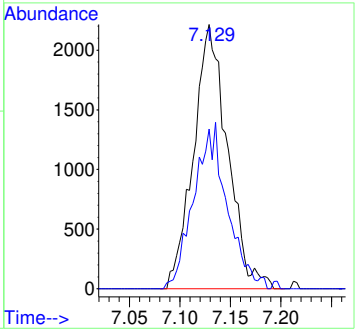


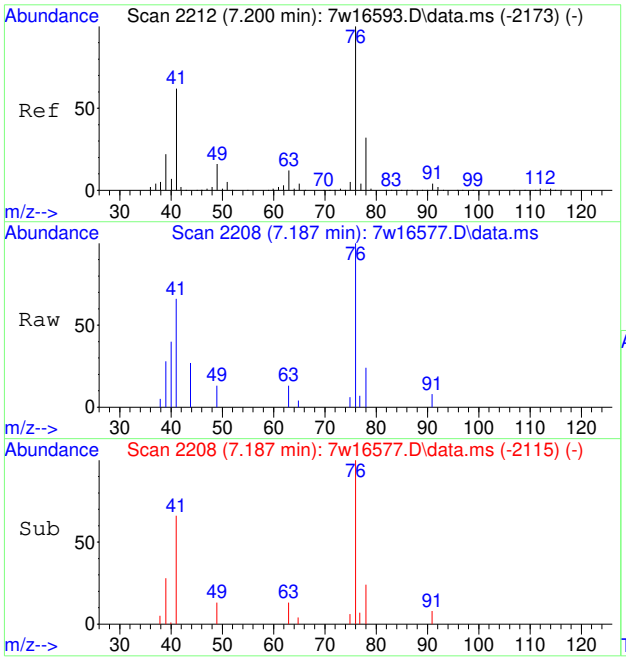


#66
TOLUENE
Concen: 0.11 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5187

Ion	Ratio	Lower	Upper
91	100		
92	62.0	28.1	88.1

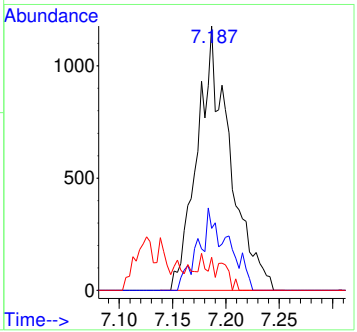


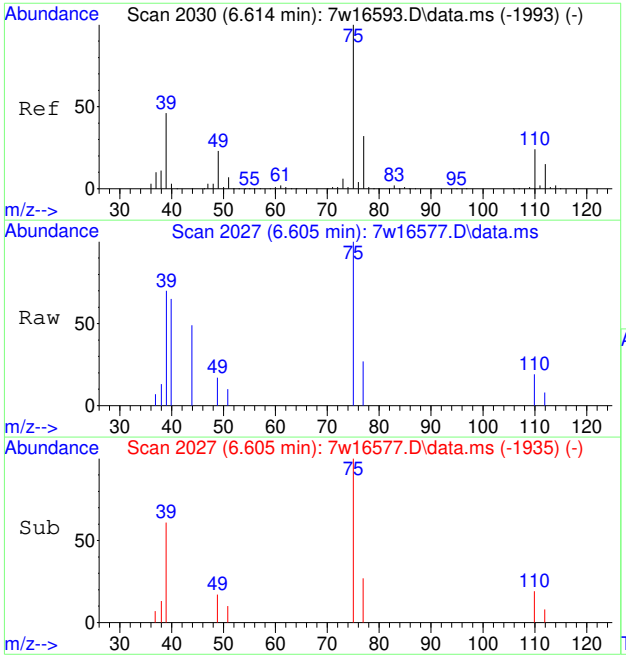


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 2497

Ion	Ratio	Lower	Upper
76	100		
78	28.4	22.1	41.1
63	7.7	8.0	14.8#

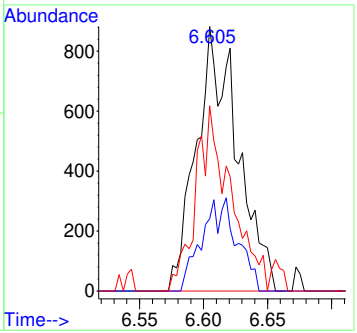


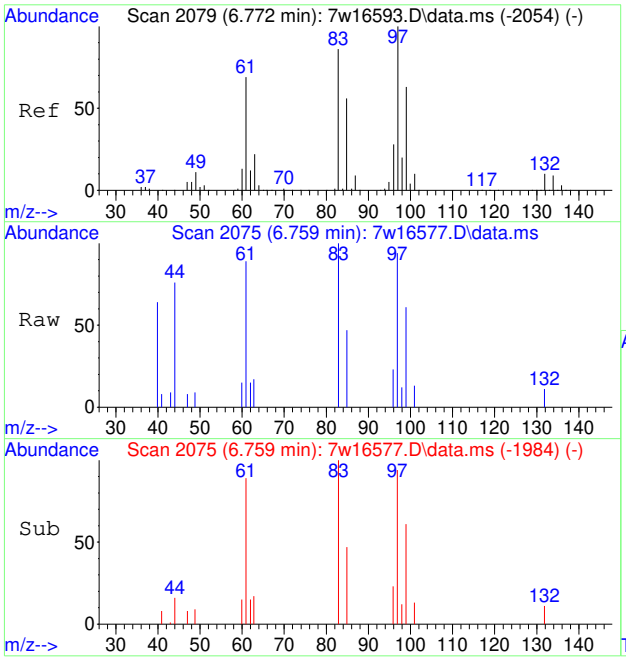


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.08 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 1972

Ion	Ratio	Lower	Upper
75	100		
77	30.0	22.5	41.7
39	59.3	37.2	69.0

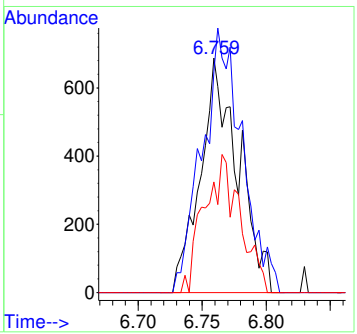


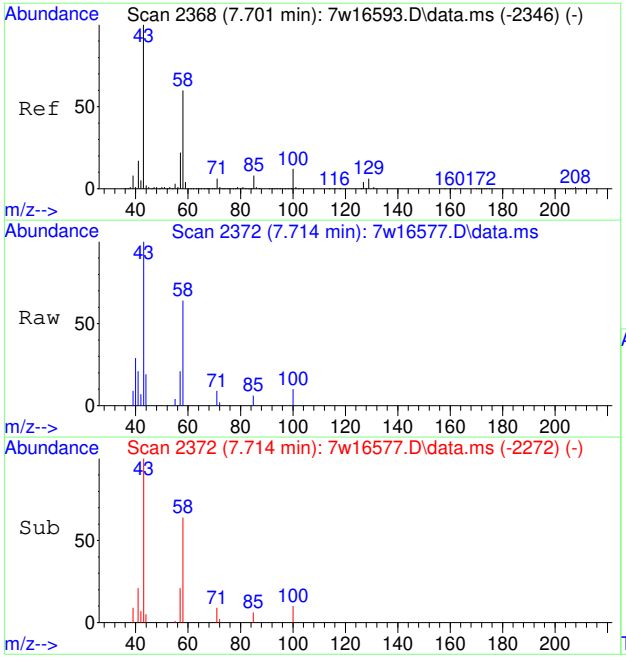


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 6.759 min Scan# 2075
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 1417

Ion	Ratio	Lower	Upper
83	100		
97	118.6	86.7	160.9
85	55.3	45.5	84.5

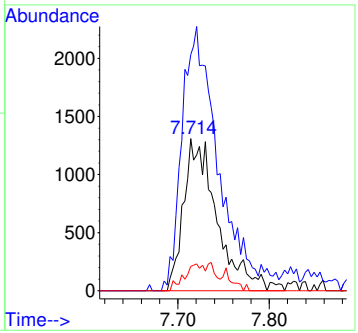


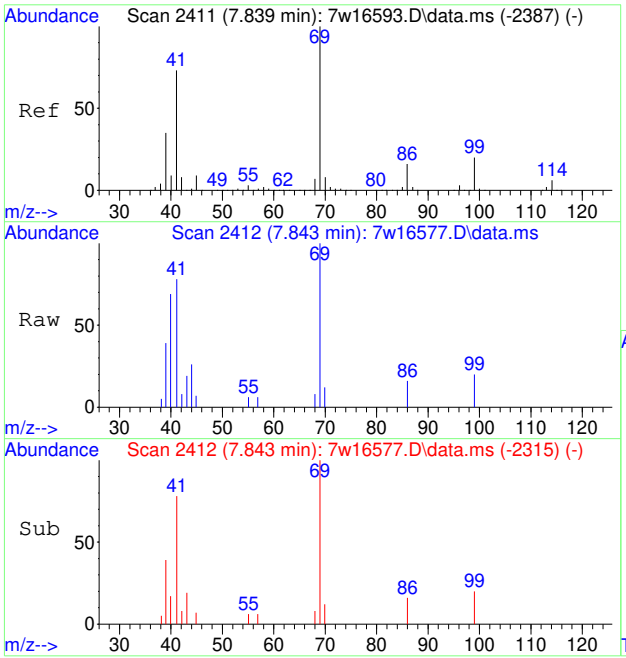


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.714 min Scan# 2372
Delta R.T. 0.023 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 3348

Ion	Ratio	Lower	Upper
58	100		
43	190.0	141.7	263.3
100	0.0	18.9	35.1#

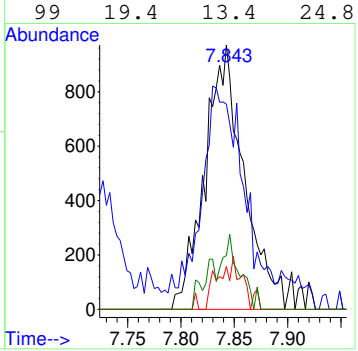


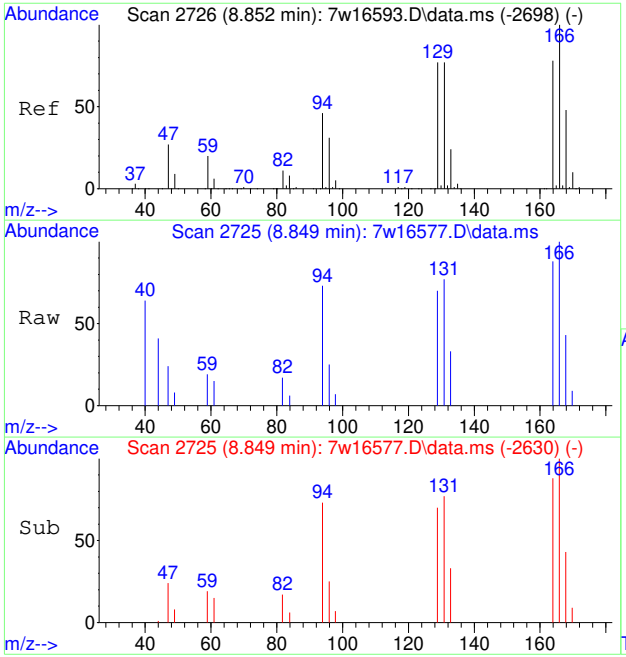


#71
ETHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 2476

Ion	Ratio	Lower	Upper
69	100		
41	101.2	49.3	91.6#
86	12.9	11.6	21.6
99	19.4	13.4	24.8

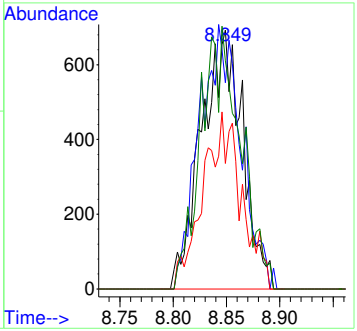


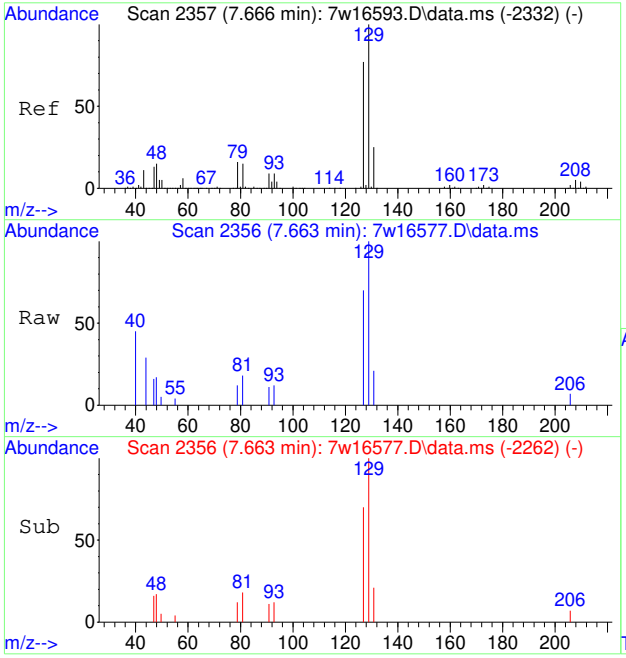


#72
TETRACHLOROETHENE
Concen: 0.11 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:164 Resp: 1845

Ion	Ratio	Lower	Upper
164	100		
129	103.4	69.7	129.5
168	63.9	43.4	80.6
131	98.6	67.1	124.5

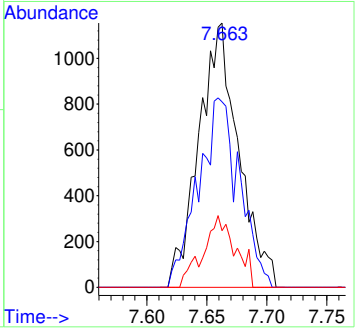


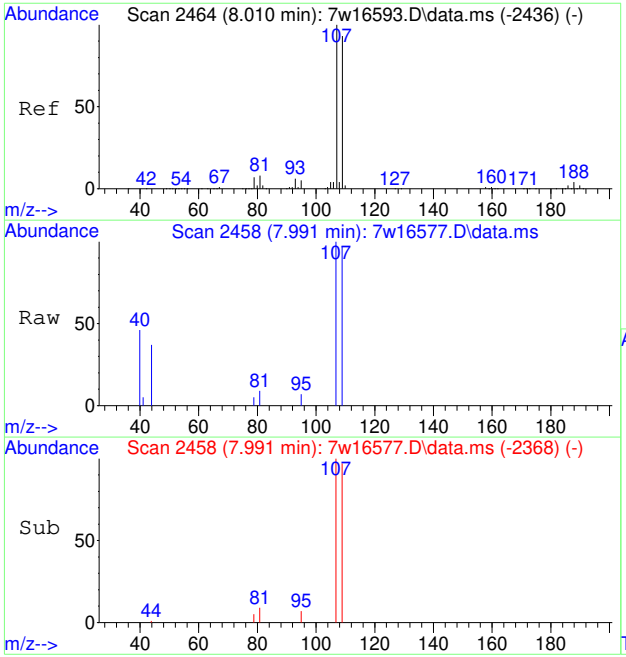


#73
DIBROMOCHLOROMETHANE
Concen: 0.09 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:129 Resp: 2664

Ion	Ratio	Lower	Upper
129	100		
127	73.7	53.0	98.4
131	21.8	16.9	31.3

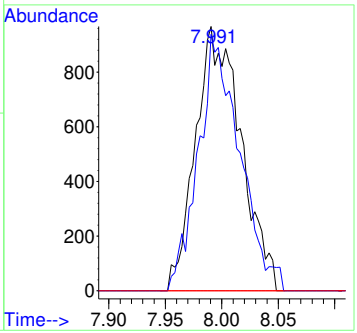


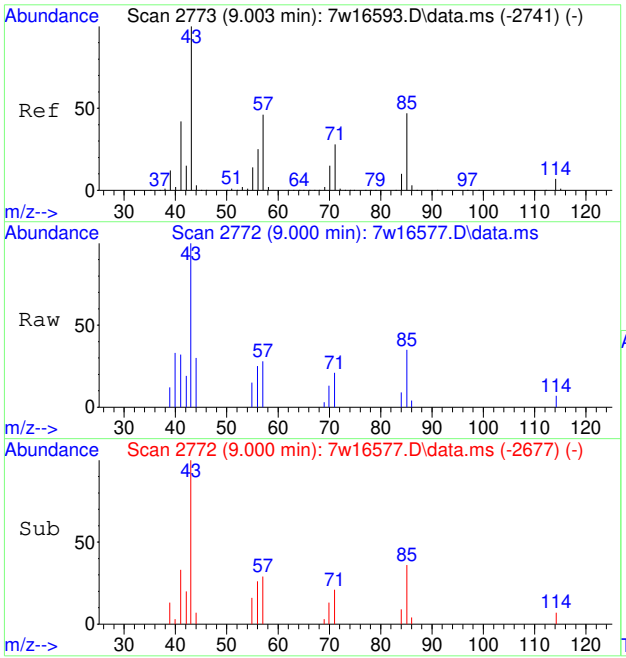


#74
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 7.991 min Scan# 2458
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:107 Resp: 2697

Ion	Ratio	Lower	Upper
107	100		
109	88.3	65.7	122.1
188	0.0	2.4	4.4#

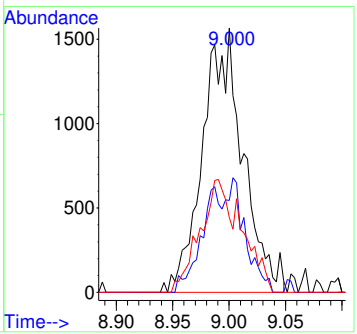


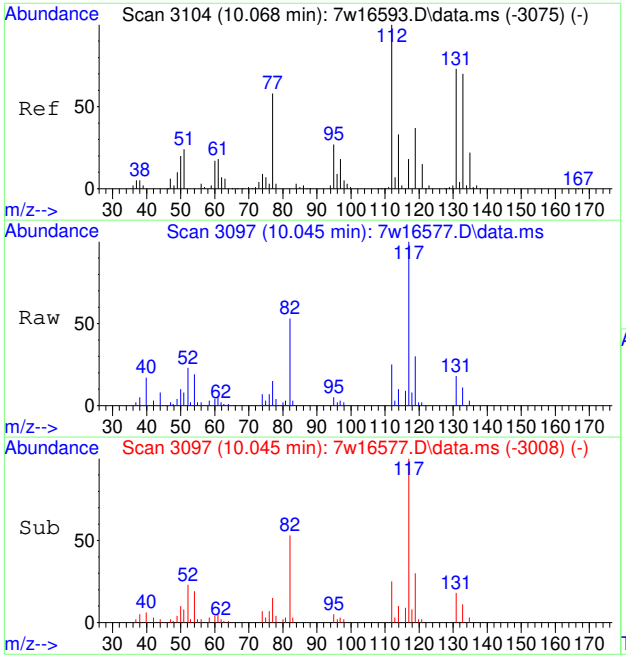


#75
OCTANE
Concen: 0.11 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
85	42.0	36.5	67.9
57	44.2	27.6	51.2

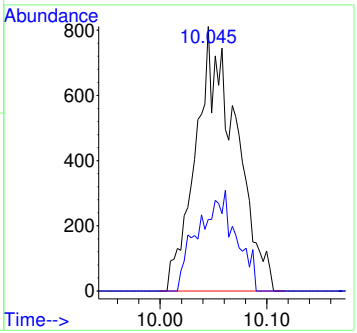


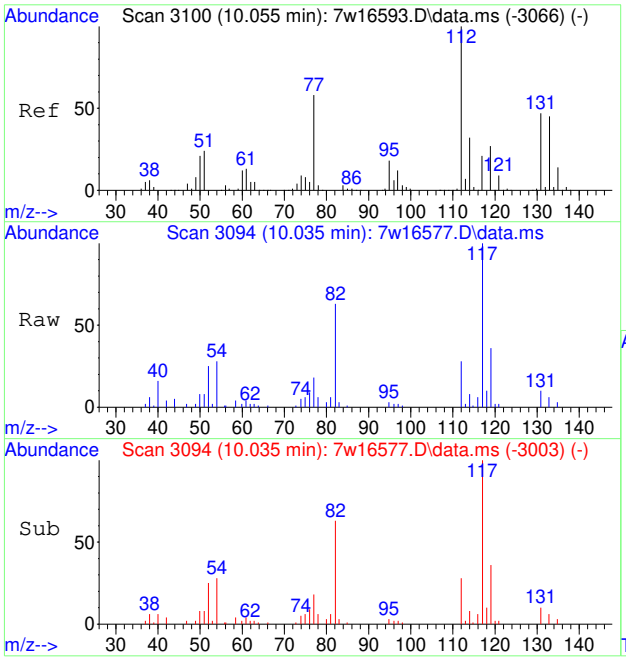


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:131 Resp: 2123

Ion	Ratio	Lower	Upper
131	100		
95	35.4	23.7	43.9

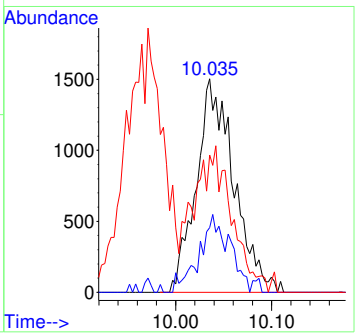


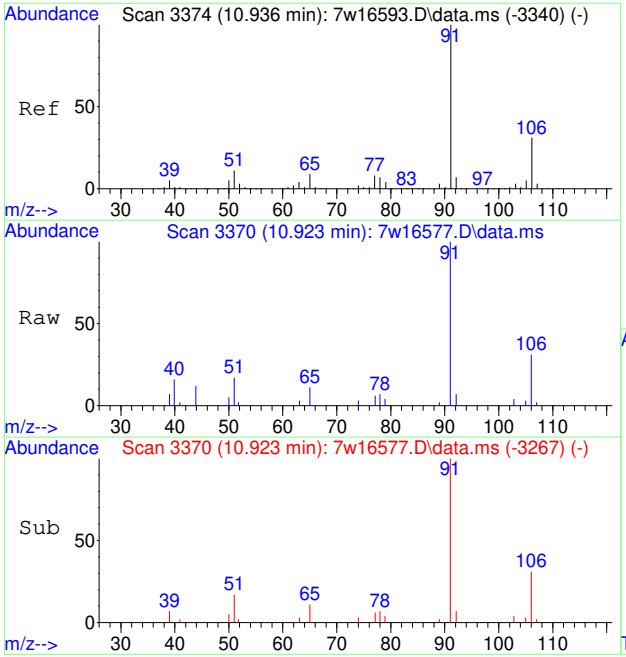


#78
CHLOROBENZENE
Concen: 0.11 PPBV
RT: 10.035 min Scan# 3094
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:112 Resp: 4090

Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.9	42.5
77	71.1	34.4	63.8#

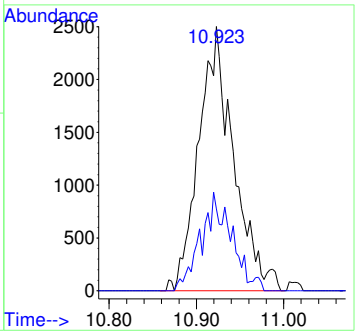


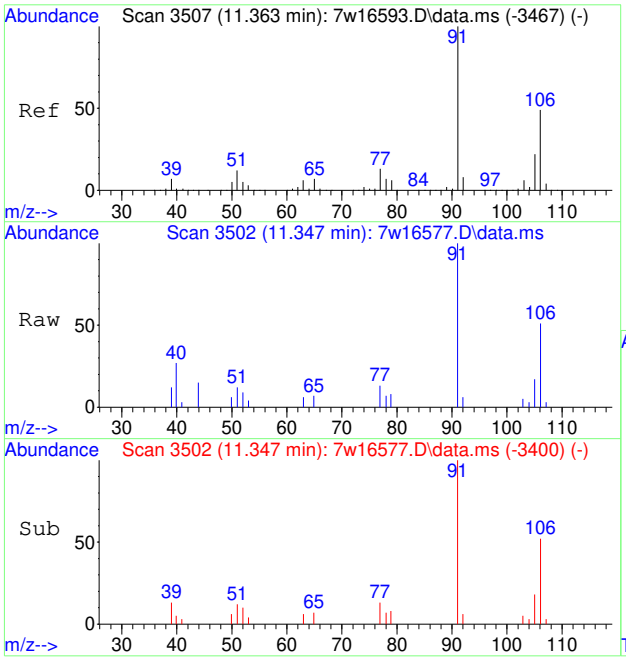


#79
ETHYLBENZENE
Concen: 0.11 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 6930

Ion	Ratio	Lower	Upper
91	100		
106	32.8	2.8	62.8

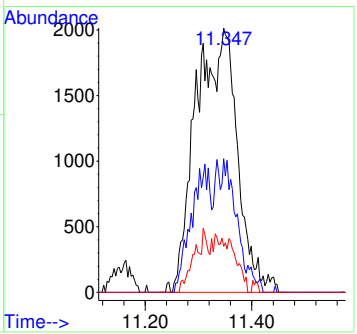


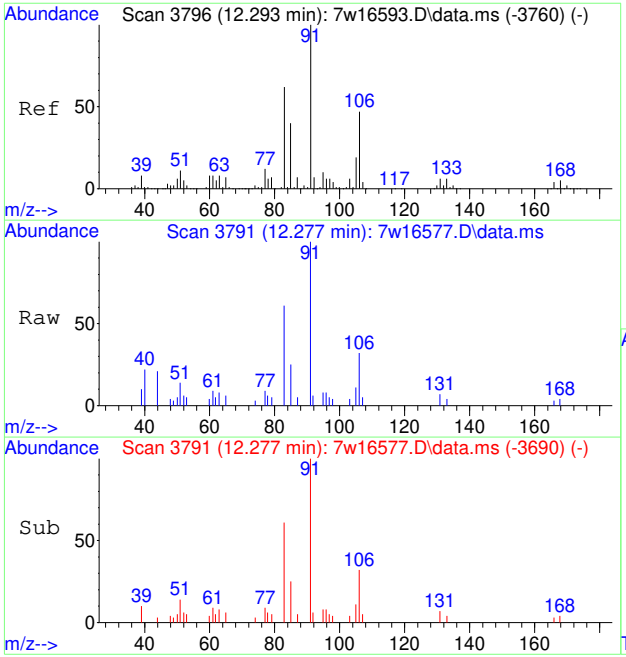


#80
M,P-XYLENE
Concen: 0.22 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 10889

Ion	Ratio	Lower	Upper
91	100		
106	26.3	0.0	58.7
105	0.0	0.0	43.2

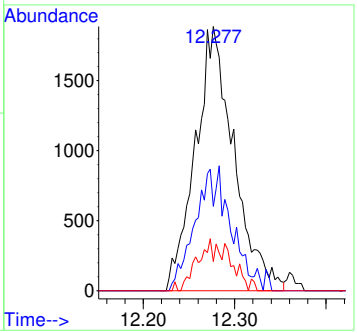


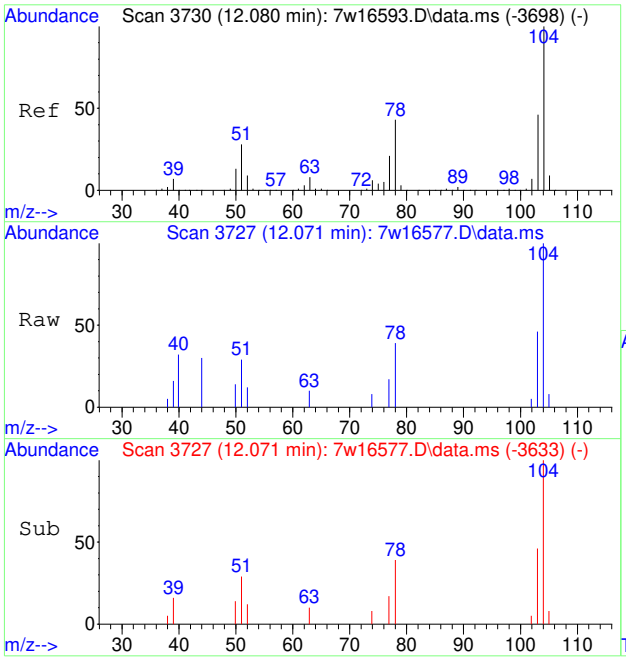


#81
O-XYLENE
Concen: 0.11 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5536

Ion	Ratio	Lower	Upper
91	100		
106	31.9	34.1	63.3#
105	11.1	14.6	27.2#

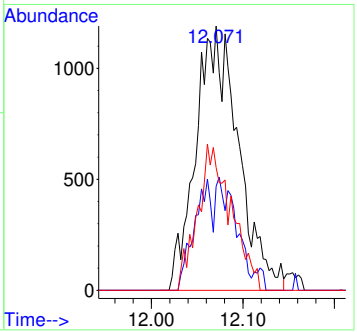


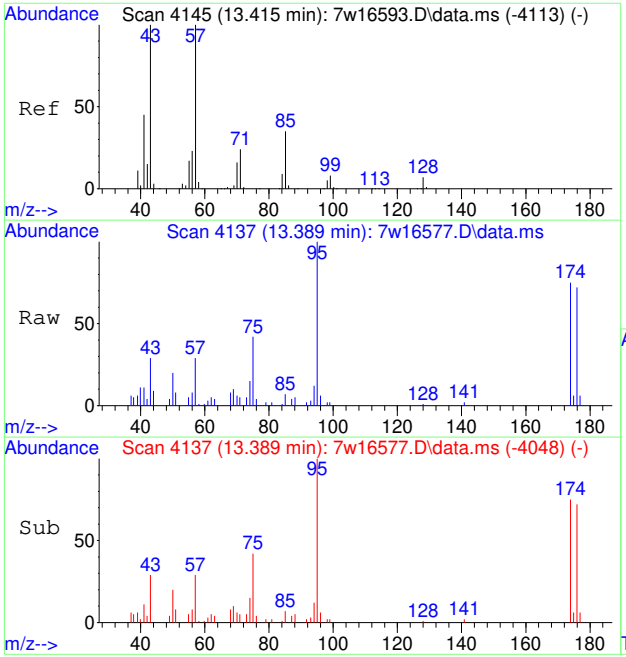


#82
STYRENE
Concen: 0.10 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:104 Resp: 3856

Ion	Ratio	Lower	Upper
104	100		
78	22.0	25.3	46.9#
103	0.0	33.2	61.7#

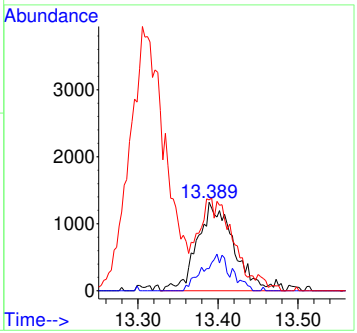


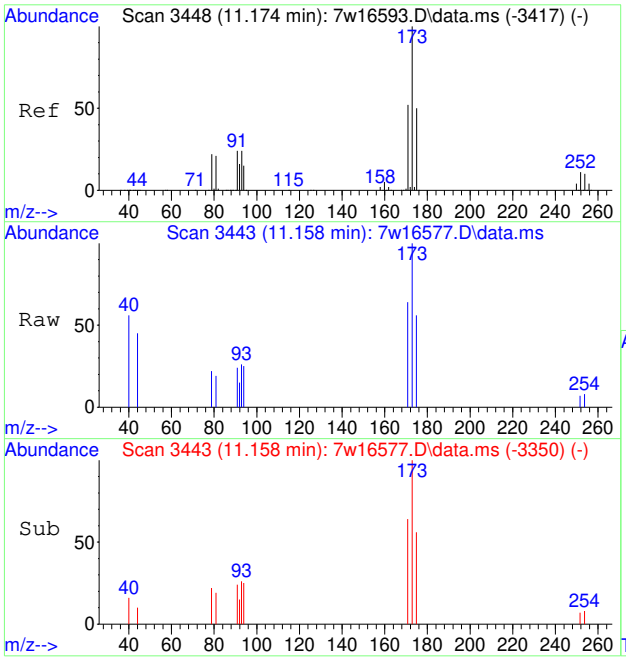


#83
NONANE
Concen: 0.11 PPBV
RT: 13.389 min Scan# 4137
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 4193

Ion	Ratio	Lower	Upper
43	100		
85	31.9	27.6	51.2
57	100.3	56.4	104.7

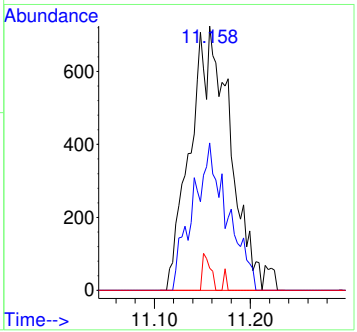


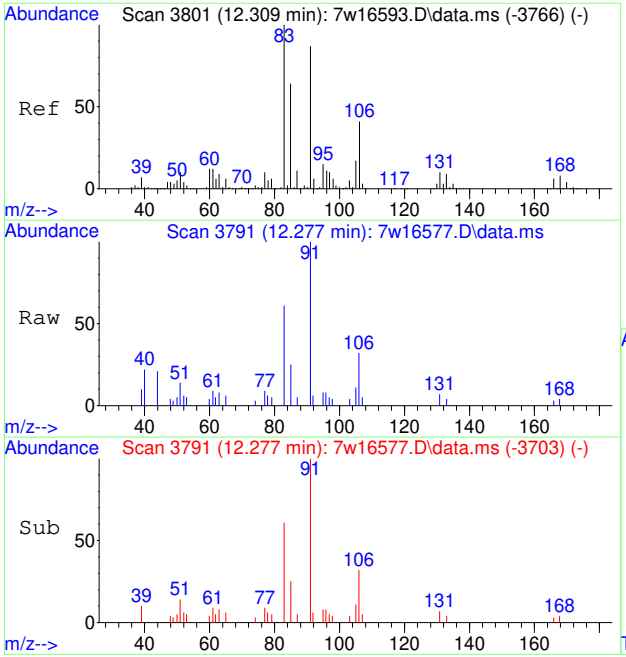


#84
BROMOFORM
Concen: 0.08 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:173 Resp: 2131

Ion	Ratio	Lower	Upper
173	100		
175	47.8	33.0	61.4
254	2.7	5.9	10.9#

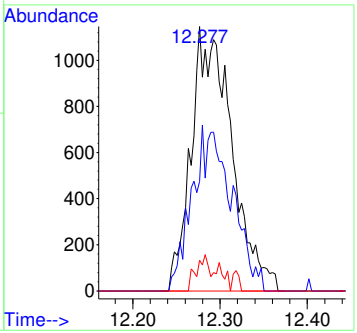


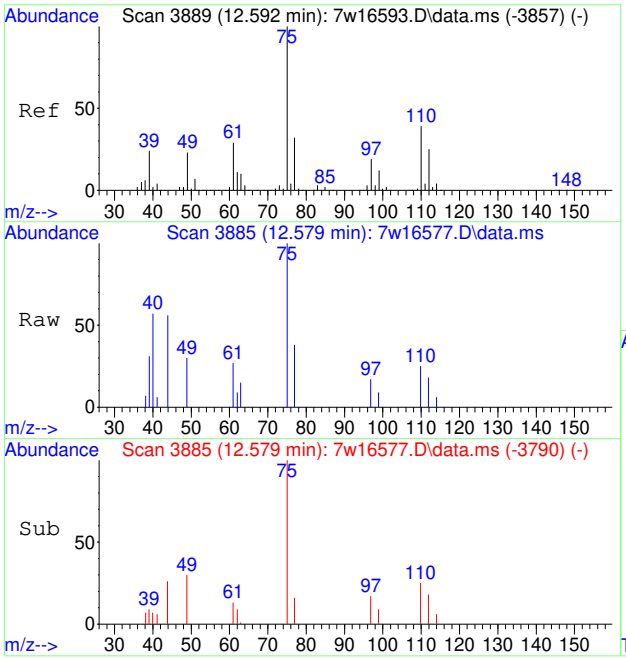


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.016 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 3686

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	6.1	8.0	14.8#

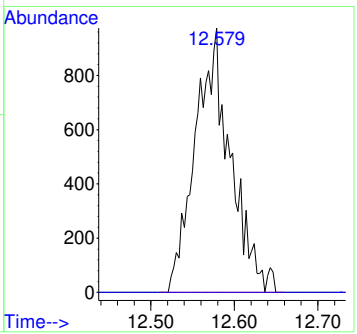


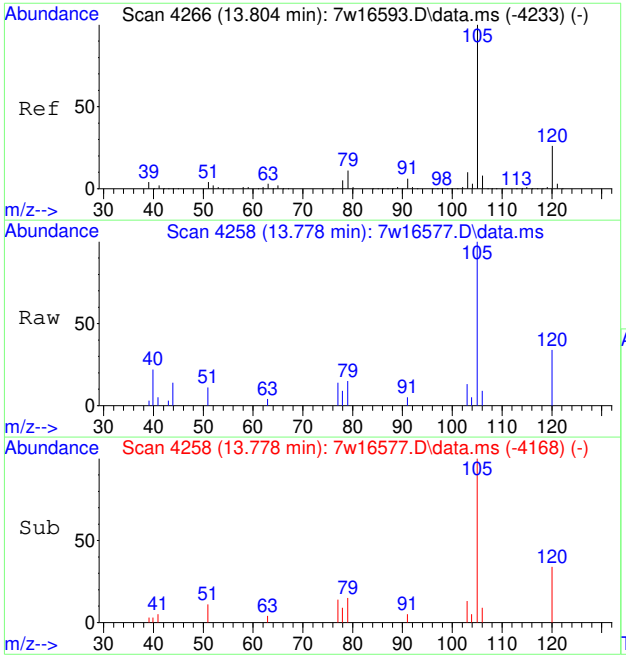


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.10 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2860

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

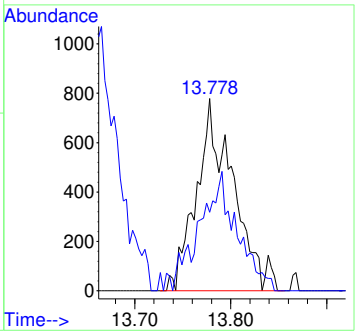


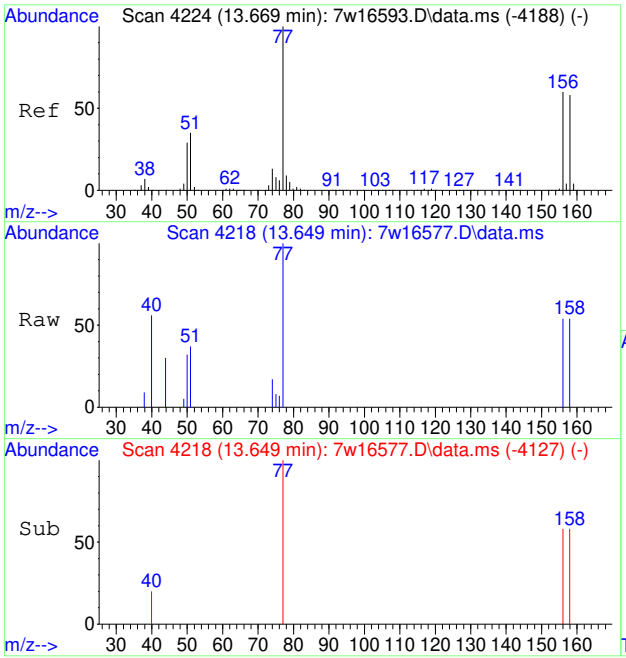


#88
ISOPROPYLBENZENE
Concen: 0.11 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 2075

Ion	Ratio	Lower	Upper
120	100		
77	64.6	36.0	67.0

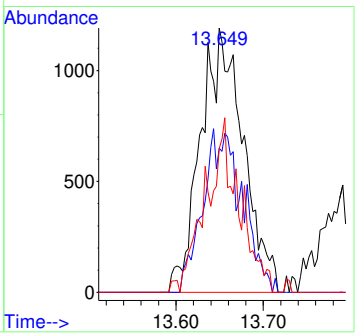


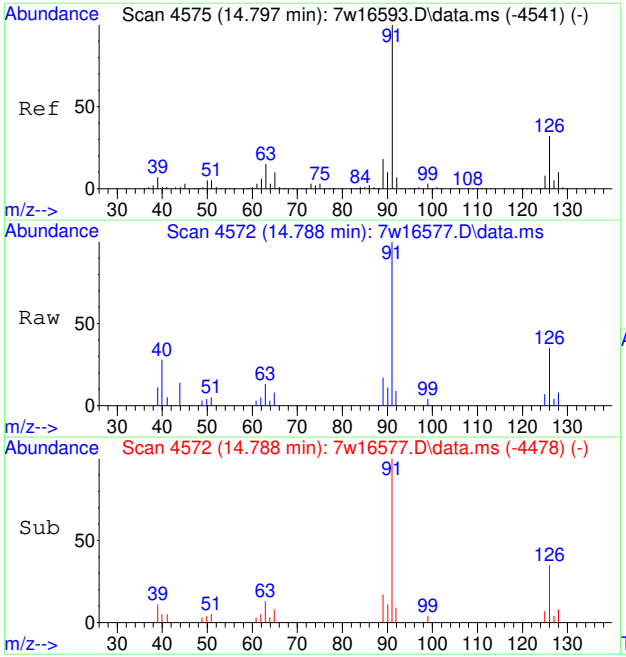


#89
BROMOBENZENE
Concen: 0.11 PPBV
RT: 13.649 min Scan# 4218
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 77 Resp: 4058

Ion	Ratio	Lower	Upper
77	100		
156	56.9	57.9	107.5#
158	51.5	55.7	103.5#

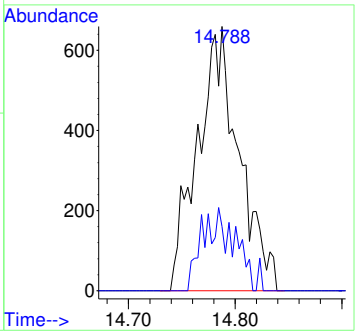


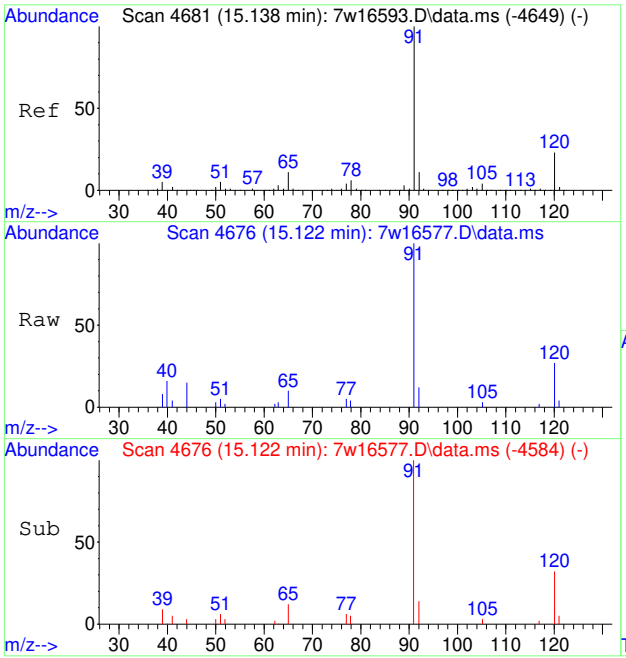


#90
2-CHLOROTOLUENE
Concen: 0.10 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:126 Resp: 1780

Ion	Ratio	Lower	Upper
126	100		
128	10.4	22.7	42.1#

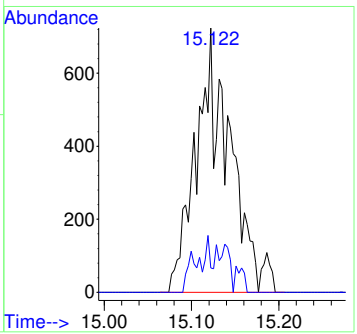


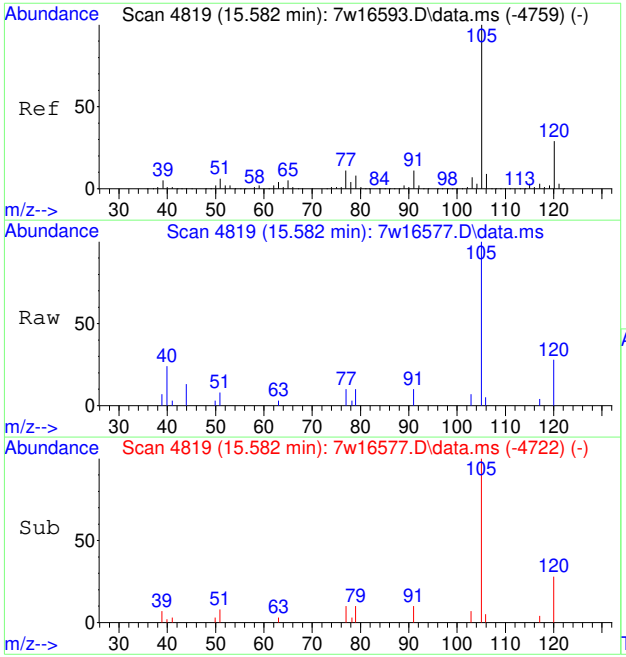


#91
N-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 1971

Ion	Ratio	Lower	Upper
120	100		
105	17.7	10.6	19.6

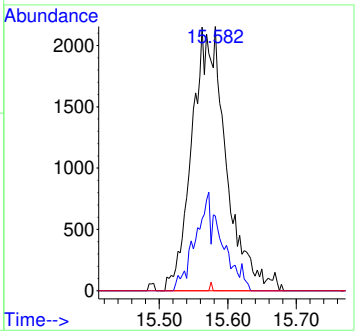


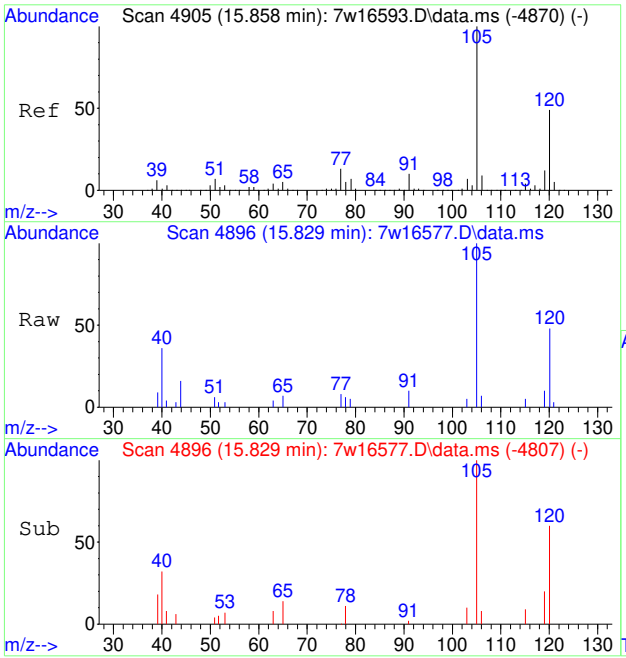


#92
4-ETHYLTOLUENE
Concen: 0.10 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 7463

Ion	Ratio	Lower	Upper
105	100		
120	28.8	21.8	40.4
119	0.0	1.7	3.1#

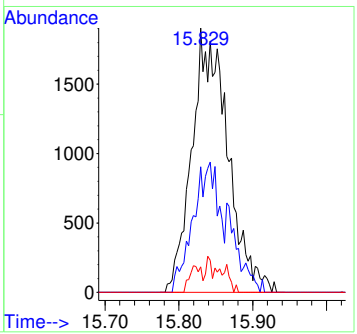


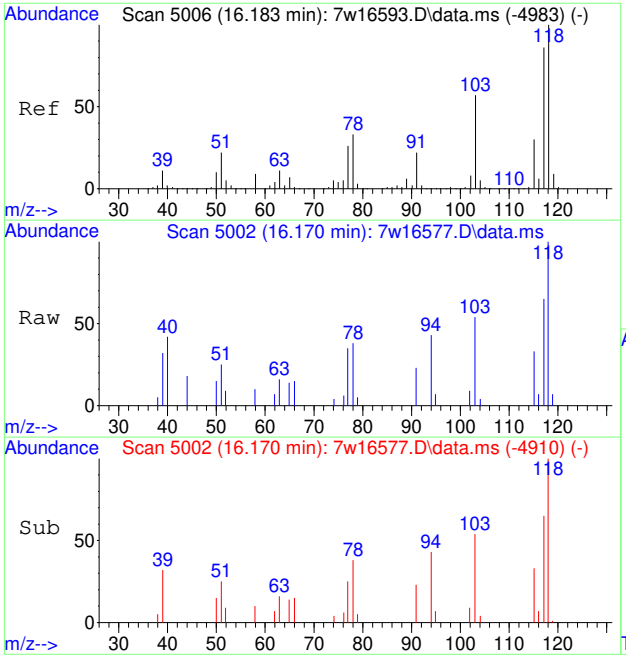


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 15.829 min Scan# 4896
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6383

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.2	69.2#
91	3.4	7.5	13.9#

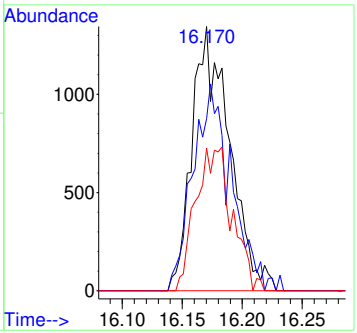


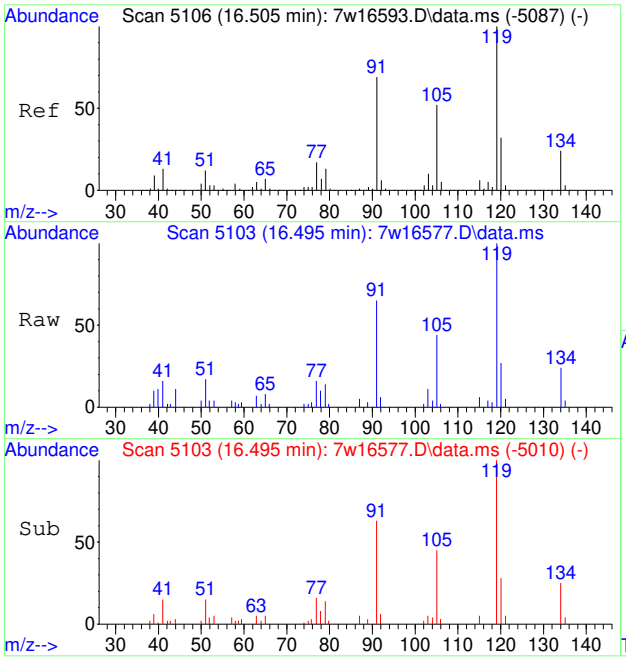


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.170 min Scan# 5002
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:118 Resp: 2929

Ion	Ratio	Lower	Upper
118	100		
117	80.1	59.9	111.3
103	52.7	36.2	67.2

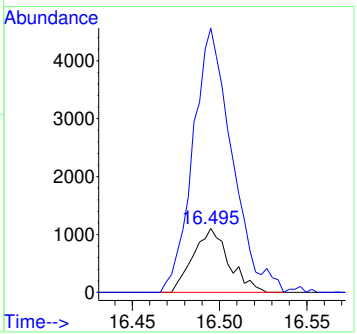


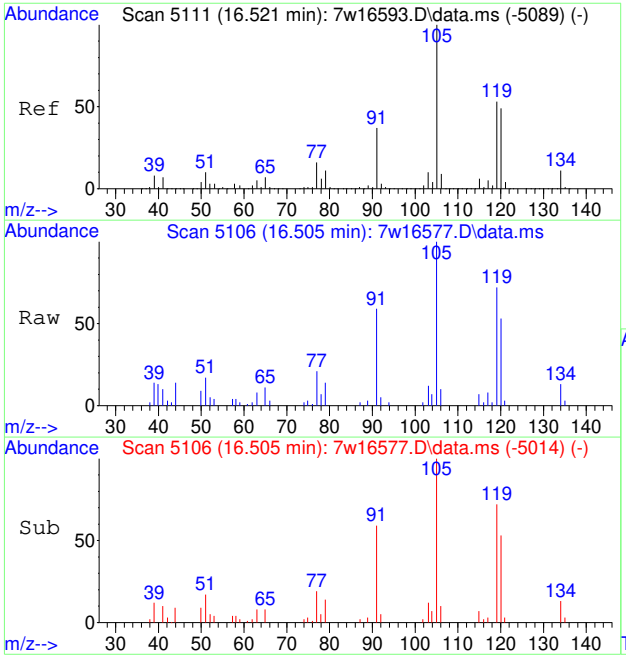


#95
TERT-BUTYLBENZENE
Concen: 0.10 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1569

Ion	Ratio	Lower	Upper
134	100		
119	455.9	307.9	571.7

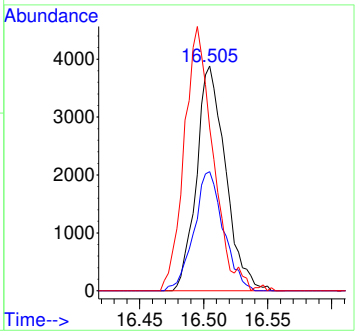


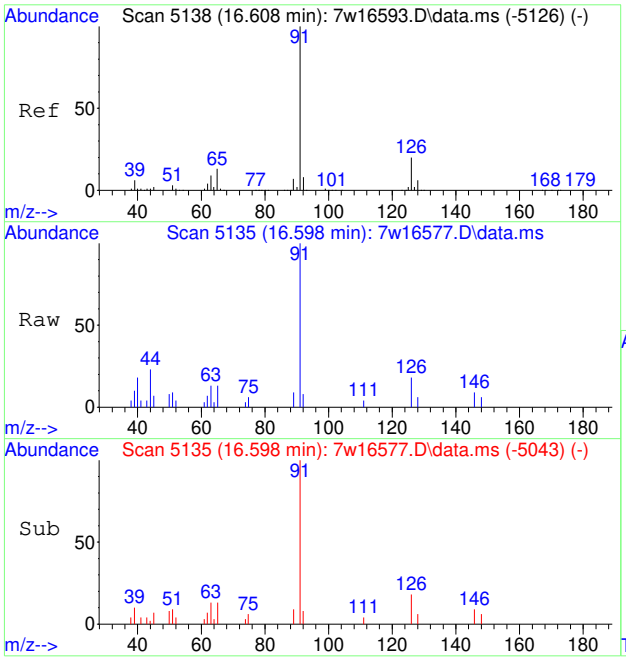


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6125

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	116.8	78.0	144.8

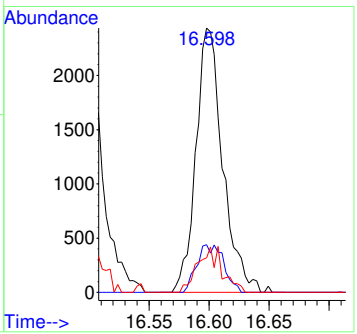


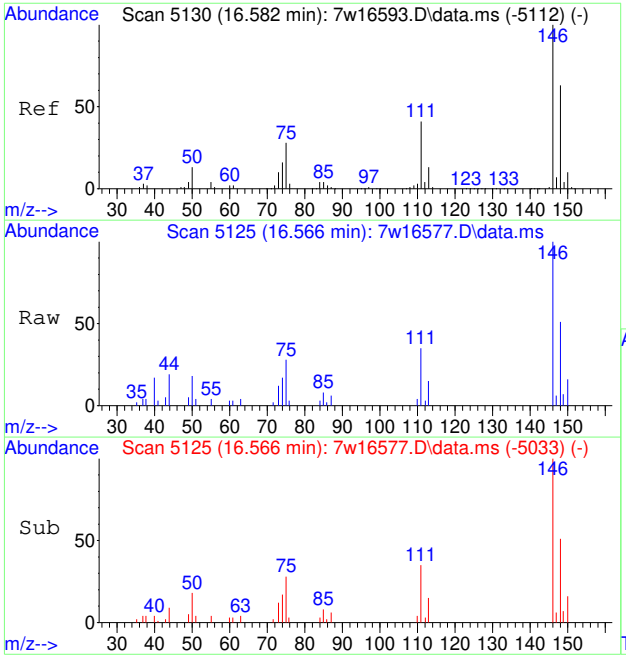


#97
BENZYL CHLORIDE
Concen: 0.07 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 3788

Ion	Ratio	Lower	Upper
91	100		
126	18.1	17.2	32.0
65	15.8	7.3	13.7#

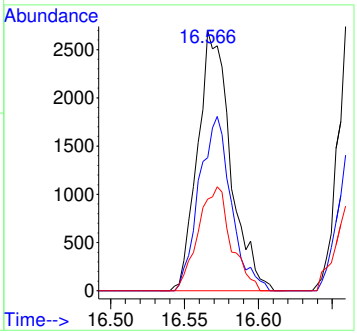


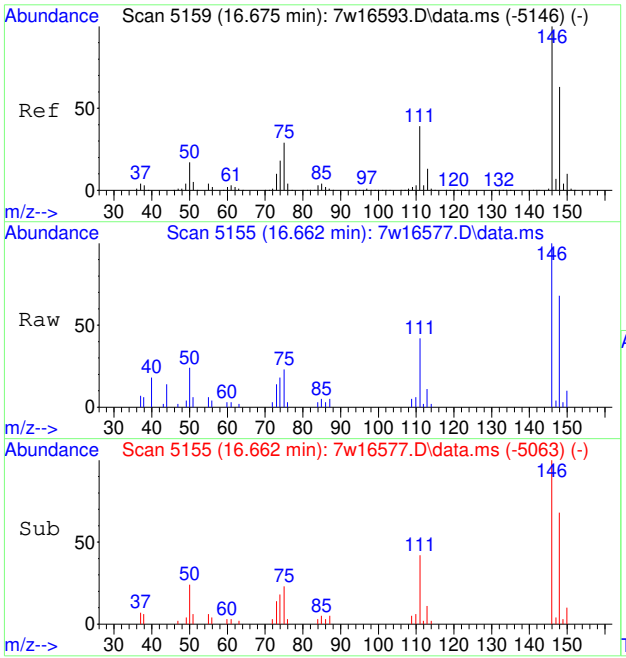


#98
M-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.566 min Scan# 5125
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4159

Ion	Ratio	Lower	Upper
146	100		
148	65.3	44.2	82.2
111	40.1	25.4	47.2

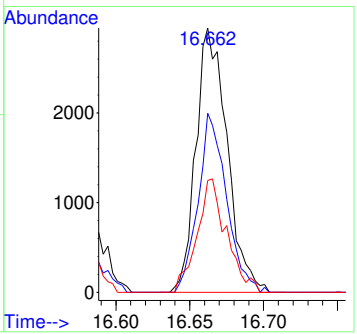


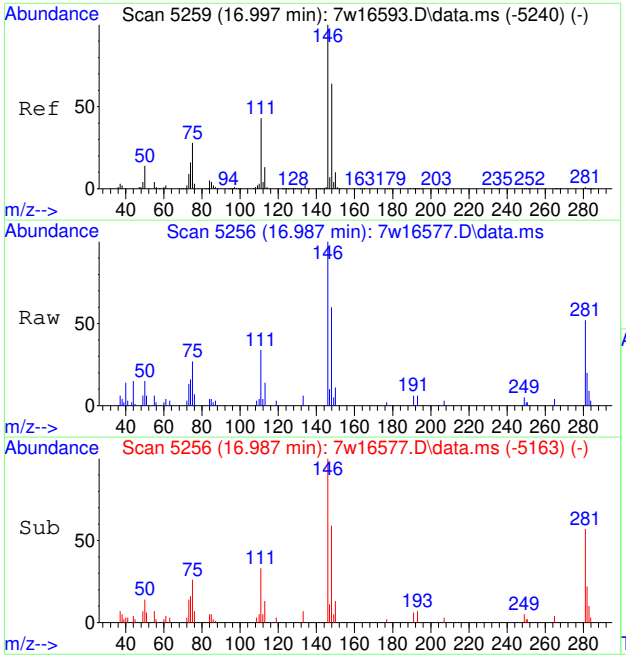


#99
P-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4312

Ion	Ratio	Lower	Upper
146	100		
148	61.9	44.7	82.9
111	40.9	24.8	46.1

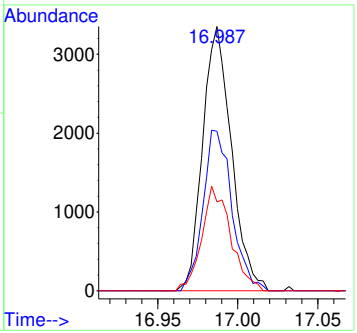


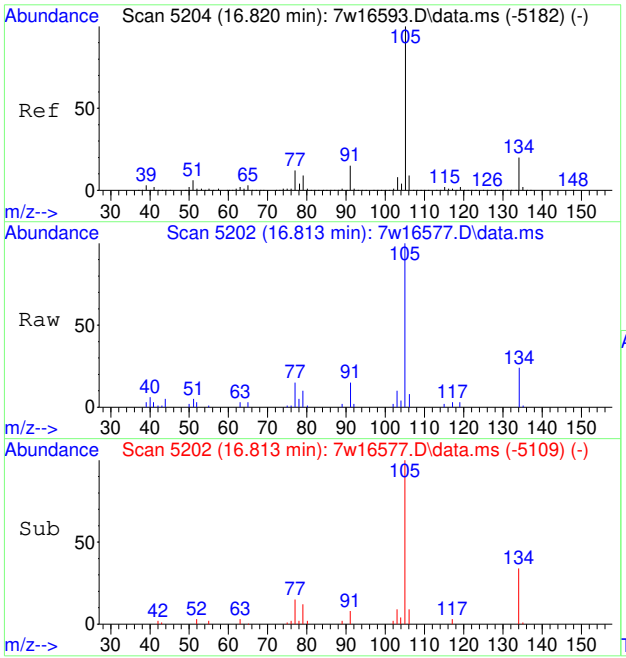


#100
O-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4193

Ion	Ratio	Lower	Upper
146	100		
148	60.9	44.6	82.8
111	39.6	26.9	50.1

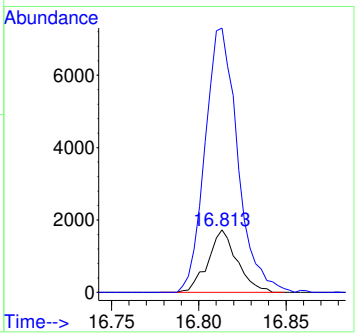


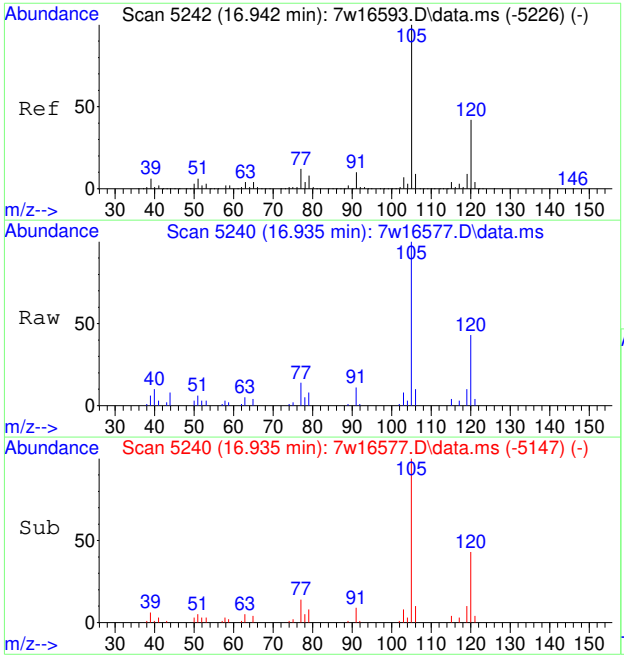


#101
SEC-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2000

Ion	Ratio	Lower	Upper
134	100		
105	476.9	314.4	584.0

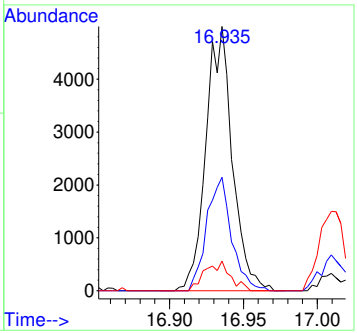


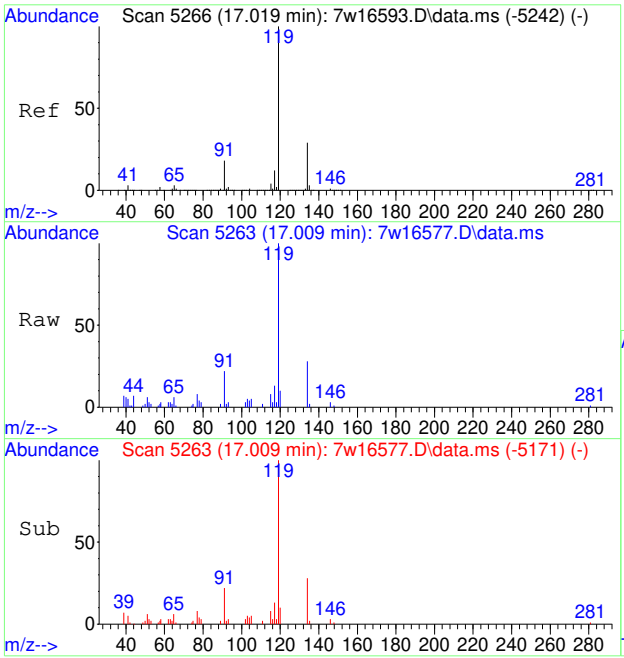


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6206

Ion	Ratio	Lower	Upper
105	100		
120	40.4	31.9	59.2
91	10.7	7.3	13.5

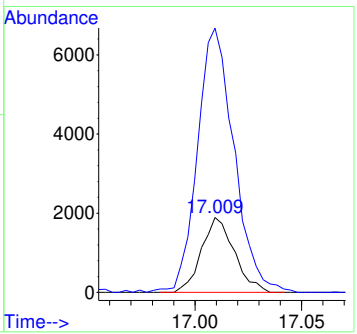


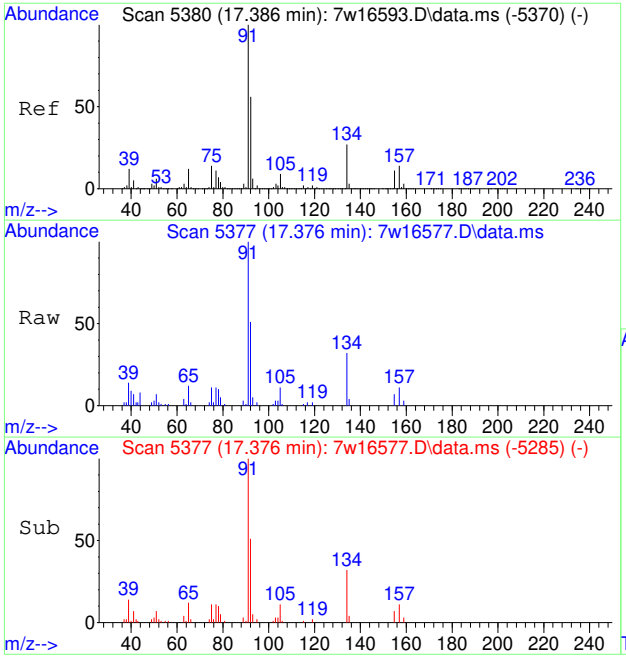


#103
P-ISOPROPYLTOLUENE
Concen: 0.10 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2027

Ion	Ratio	Lower	Upper
134	100		
119	394.0	253.7	471.3

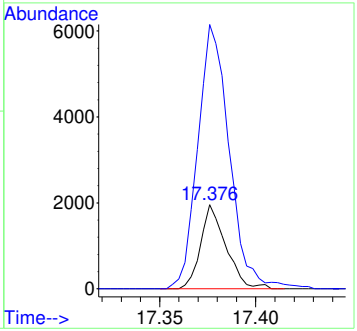


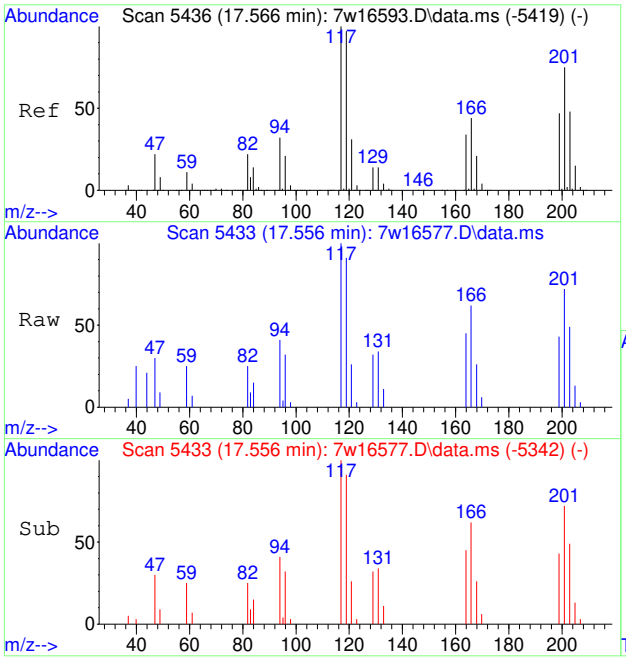


#104
N-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1794

Ion	Ratio	Lower	Upper
134	100		
91	392.4	231.1	429.1

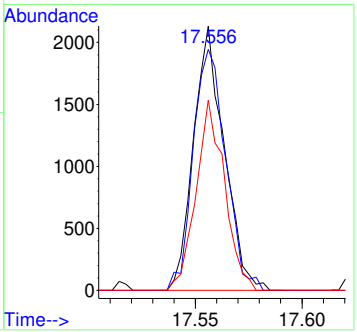


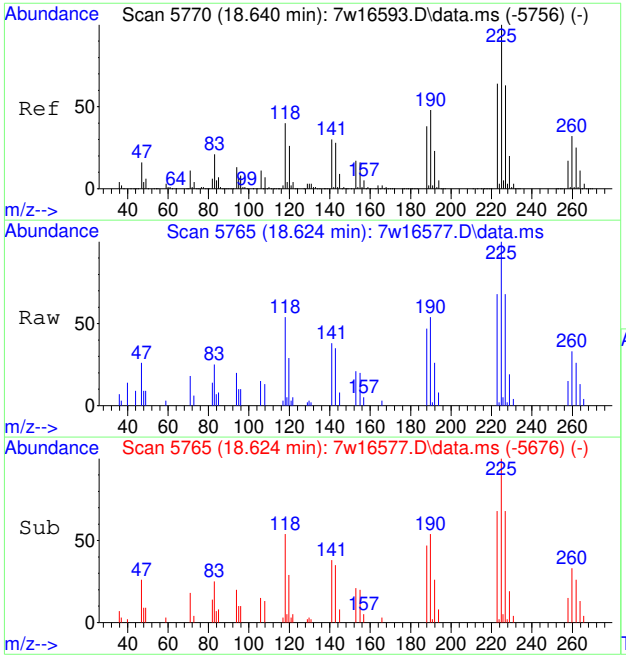


#105
HEXACHLOROETHANE
Concen: 0.09 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2143

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	66.7	45.9	85.3

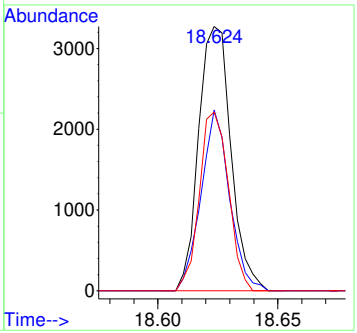


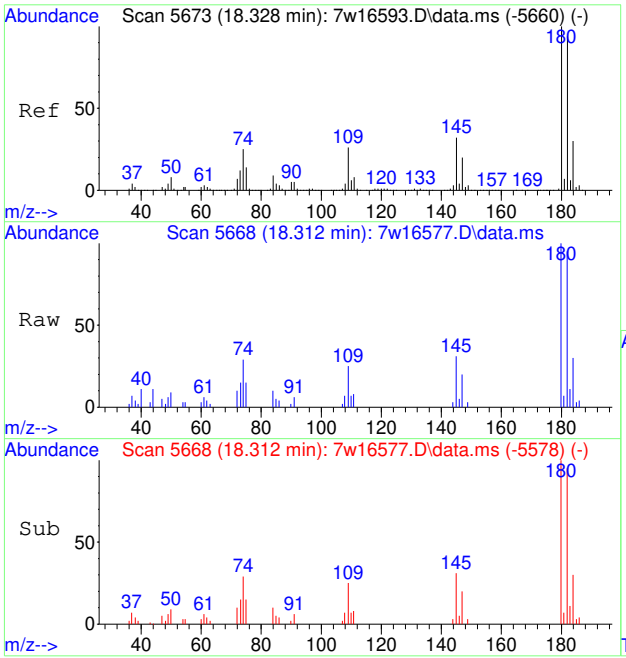


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.624 min Scan# 5765
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:225 Resp: 3071

Ion	Ratio	Lower	Upper
225	100		
227	60.4	44.4	82.5
223	60.5	44.7	83.1

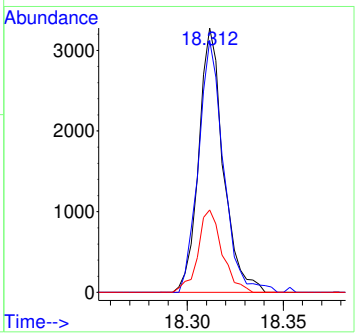


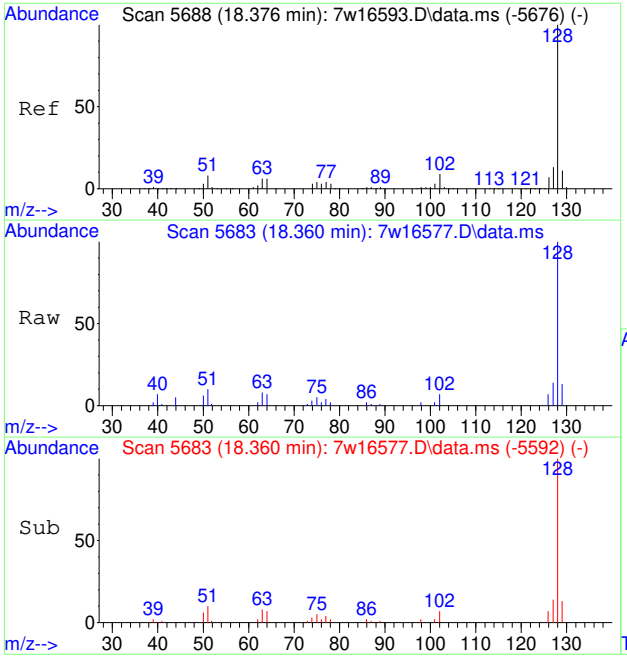


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.08 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:180 Resp: 2908

Ion	Ratio	Lower	Upper
180	100		
182	97.8	66.8	124.0
145	31.0	23.1	42.9

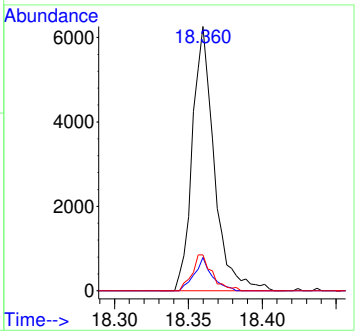




#108
NAPHTHALENE
Concen: 0.08 PPBV
RT: 18.360 min Scan# 5683
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:128 Resp: 6418

Ion	Ratio	Lower	Upper
128	100		
129	10.1	7.3	13.7
127	12.5	8.8	16.4



7.7.14

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16577.D
Injection Time: 08/07/25 04:38

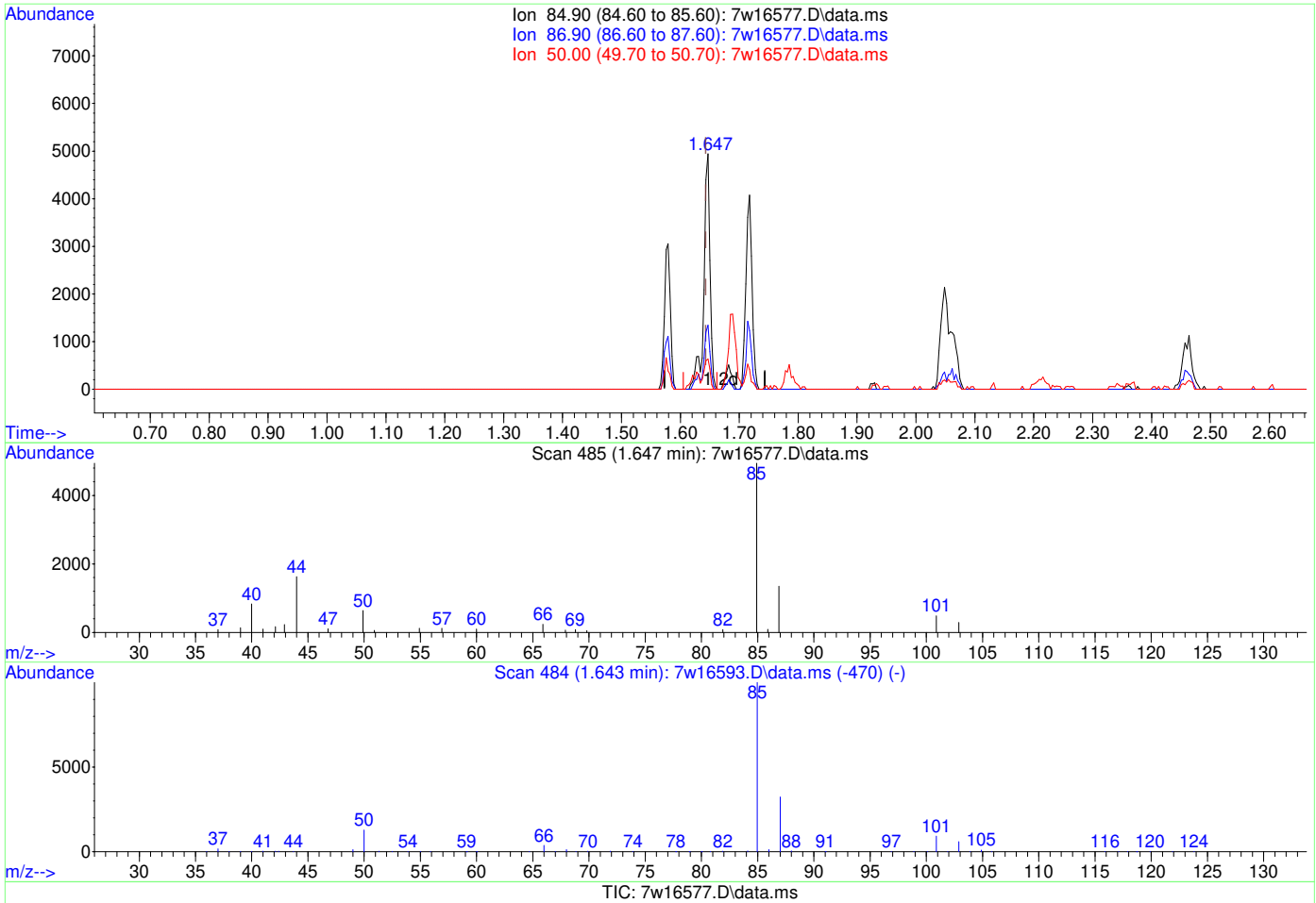
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.11PPBV

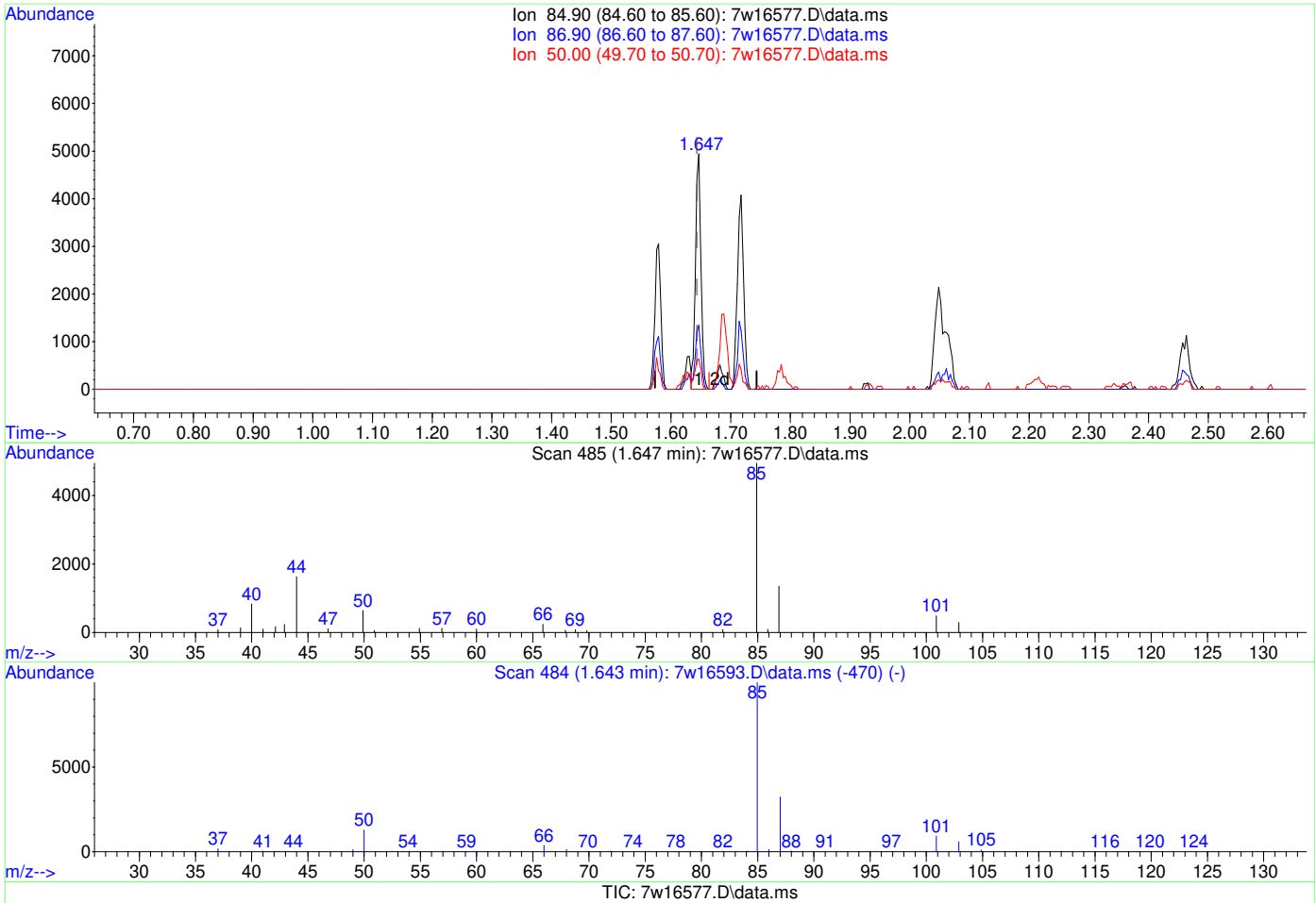
response 3582

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	30.29
50.00	17.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.09PPBV m

response 3122

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.75
50.00	17.30	24.76#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114690	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	581918	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	540272	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114690	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	425835	9.69	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	2657	0.18	PPBV		86
3) FREON 152A	1.605	65	1240	0.18	PPBV		85
4) CHLORODIFLUOROMETHANE	1.618	67	552	0.17	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	2985	0.19	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.644	85	5428m	0.16	PPBV		
7) PROPYLENE	1.627	41	1949	0.21	PPBV		93
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	5125	0.20	PPBV	#	88
9) FREON 114	1.714	85	5306	0.18	PPBV		85
10) CHLOROMETHANE	1.685	52	806	0.21	PPBV		85
11) VINYL CHLORIDE	1.746	62	2445	0.17	PPBV		96
12) 1,3-BUTADIENE	1.785	54	2011	0.18	PPBV	#	73
13) N-BUTANE	1.801	43	4132	0.22	PPBV	#	41
14) BROMOMETHANE	1.859	94	2032	0.19	PPBV		98
15) CHLOROETHANE	1.904	64	1408	0.19	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	4948	0.18	PPBV		95
17) ACETONITRILE	1.997	41	2687	0.23	PPBV		99
18) ACROLEIN	2.033	56	1361	0.22	PPBV		87
19) FREON 123	2.045	83	5339	0.19	PPBV		97
20) FREON 123A	2.065	117	3198	0.20	PPBV	#	51
21) TRICHLOROFLUOROMETHANE	2.126	101	5808	0.18	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	6133	0.23	PPBV		91
23) ACETONE	2.074	58	1566	0.22	PPBV		69
24) PENTANE	2.238	42	2893	0.21	PPBV	#	82
25) IODOMETHANE	2.303	142	5560	0.19	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.325	96	2379	0.20	PPBV	#	70
27) CARBON DISULFIDE	2.460	76	6298	0.18	PPBV	#	80
28) ETHANOL	1.933	45	1573	0.23	PPBV		95
29) BROMOETHENE	2.000	106	2033	0.18	PPBV		99
30) ACRYLONITRILE	2.213	52	2213	0.22	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	2222	0.20	PPBV	#	78
32) 3-CHLOROPROPENE	2.406	76	1202	0.19	PPBV		77
33) FREON 113	2.457	151	3430	0.19	PPBV		82
34) TRANS-1,2-DICHLOROETHENE	2.685	96	2282	0.18	PPBV	#	60
35) TERTIARY BUTYL ALCOHOL	2.345	59	5515	0.17	PPBV		97
36) METHYL TERTIARY BUTYL ...	2.798	73	6887	0.19	PPBV	#	88
37) TETRAHYDROFURAN	3.489	72	887	0.14	PPBV	#	49
38) HEXANE	3.238	57	4468	0.18	PPBV		87
39) VINYL ACETATE	2.830	86	581	0.16	PPBV	#	53
40) 1,1-DICHLOROETHANE	2.759	63	4599	0.18	PPBV		97
41) METHYL ETHYL KETONE	2.926	72	1205	0.18	PPBV	#	81
42) CIS-1,2-DICHLOROETHENE	3.113	96	2527	0.19	PPBV	#	78
43) DIISOPROPYL ETHER	3.248	59	1371	0.20	PPBV		89
44) ETHYL ACETATE	3.261	61	871	0.18	PPBV	#	77
45) METHYL ACRYLATE	3.238	55	5488	0.18	PPBV	#	96
46) CHLOROFORM	3.258	83	5027	0.19	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	5307	0.19	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	5006	0.18	PPBV		95
49) CARBON TETRACHLORIDE	4.232	117	4884	0.16	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.660	62	3746	0.18	PPBV	#	96
51)	BENZENE	4.126	78	7569	0.19	PPBV		91
53)	CYCLOHEXANE	4.338	84	3276	0.18	PPBV	#	64
54)	2,3-DIMETHYLPENTANE	4.582	71	1571	0.17	PPBV	#	52
55)	TRICHLOROETHENE	5.010	95	3186	0.17	PPBV		84
56)	1,2-DICHLOROPROPANE	4.785	63	2832	0.17	PPBV		93
57)	DIBROMOMETHANE	4.740	174	2923	0.19	PPBV		89
58)	ETHYL ACRYLATE	4.907	55	6937	0.18	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.959	83	5187	0.16	PPBV		92
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	15119	0.19	PPBV	#	94
61)	1,4-DIOXANE	5.090	88	1375	0.15	PPBV	#	1
62)	HEPTANE	5.425	43	5077	0.19	PPBV		91
63)	METHYL METHACRYLATE	5.328	69	2638	0.17	PPBV		84
64)	METHYL ISOBUTYL KETONE	6.058	58	2634	0.17	PPBV	#	88
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	4430	0.17	PPBV		99
66)	TOLUENE	7.129	91	9065	0.19	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	4438	0.18	PPBV		98
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	3506	0.14	PPBV		95
69)	1,1,2-TRICHLOROETHANE	6.766	83	2630	0.18	PPBV		94
70)	2-HEXANONE	7.724	58	3463	0.17	PPBV	#	84
71)	ETHYL METHACRYLATE	7.839	69	4472	0.17	PPBV	#	87
72)	TETRACHLOROETHENE	8.846	164	3315	0.19	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.656	129	4563	0.15	PPBV		96
74)	1,2-DIBROMOETHANE	7.994	107	4734	0.19	PPBV	#	97
75)	OCTANE	8.994	43	6956	0.19	PPBV		89
77)	1,1,1,2-TETRACHLOROETHANE	10.048	131	3463	0.16	PPBV		87
78)	CHLOROBENZENE	10.045	112	7506	0.19	PPBV		87
79)	ETHYLBENZENE	10.923	91	12148	0.19	PPBV		93
80)	M,P-XYLENE	11.344	91	19306	0.37	PPBV		87
81)	O-XYLENE	12.280	91	9544	0.19	PPBV		92
82)	STYRENE	12.064	104	6329	0.16	PPBV	#	90
83)	NONANE	13.396	43	7642	0.20	PPBV		86
84)	BROMOFORM	11.151	173	3912	0.15	PPBV		98
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	7071	0.19	PPBV		96
86)	1,2,3-TRICHLOROPROPANE	12.569	75	5376	0.19	PPBV	#	99
88)	ISOPROPYLBENZENE	13.791	120	3578	0.19	PPBV	#	69
89)	BROMOBENZENE	13.646	77	6796	0.19	PPBV		75
90)	2-CHLOROTOLUENE	14.781	126	2989	0.16	PPBV		99
91)	N-PROPYLBENZENE	15.129	120	3735	0.18	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	13365	0.18	PPBV		96
93)	1,3,5-TRIMETHYLBENZENE	15.836	105	11247	0.18	PPBV	#	89
94)	ALPHA-METHYLSTYRENE	16.180	118	4973	0.15	PPBV		95
95)	TERT-BUTYLBENZENE	16.498	134	2760	0.18	PPBV		91
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	11478	0.18	PPBV		98
97)	BENZYL CHLORIDE	16.595	91	6914	0.13	PPBV	#	90
98)	M-DICHLOROBENZENE	16.569	146	7589	0.18	PPBV		96
99)	P-DICHLOROBENZENE	16.665	146	7856	0.19	PPBV		96
100)	O-DICHLOROBENZENE	16.987	146	7325	0.19	PPBV		96
101)	SEC-BUTYLBENZENE	16.813	134	3439	0.19	PPBV		82
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	11073	0.18	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.009	134	3722	0.18	PPBV		95
104)	N-BUTYLBENZENE	17.379	134	3557	0.18	PPBV		86
105)	HEXACHLOROETHANE	17.559	117	3887	0.16	PPBV		97
106)	HEXACHLOROBUTADIENE	18.630	225	5583	0.21	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.315	180	5618	0.16	PPBV		98
108)	NAPHTHALENE	18.363	128	11029	0.14	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	17908	0.28	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

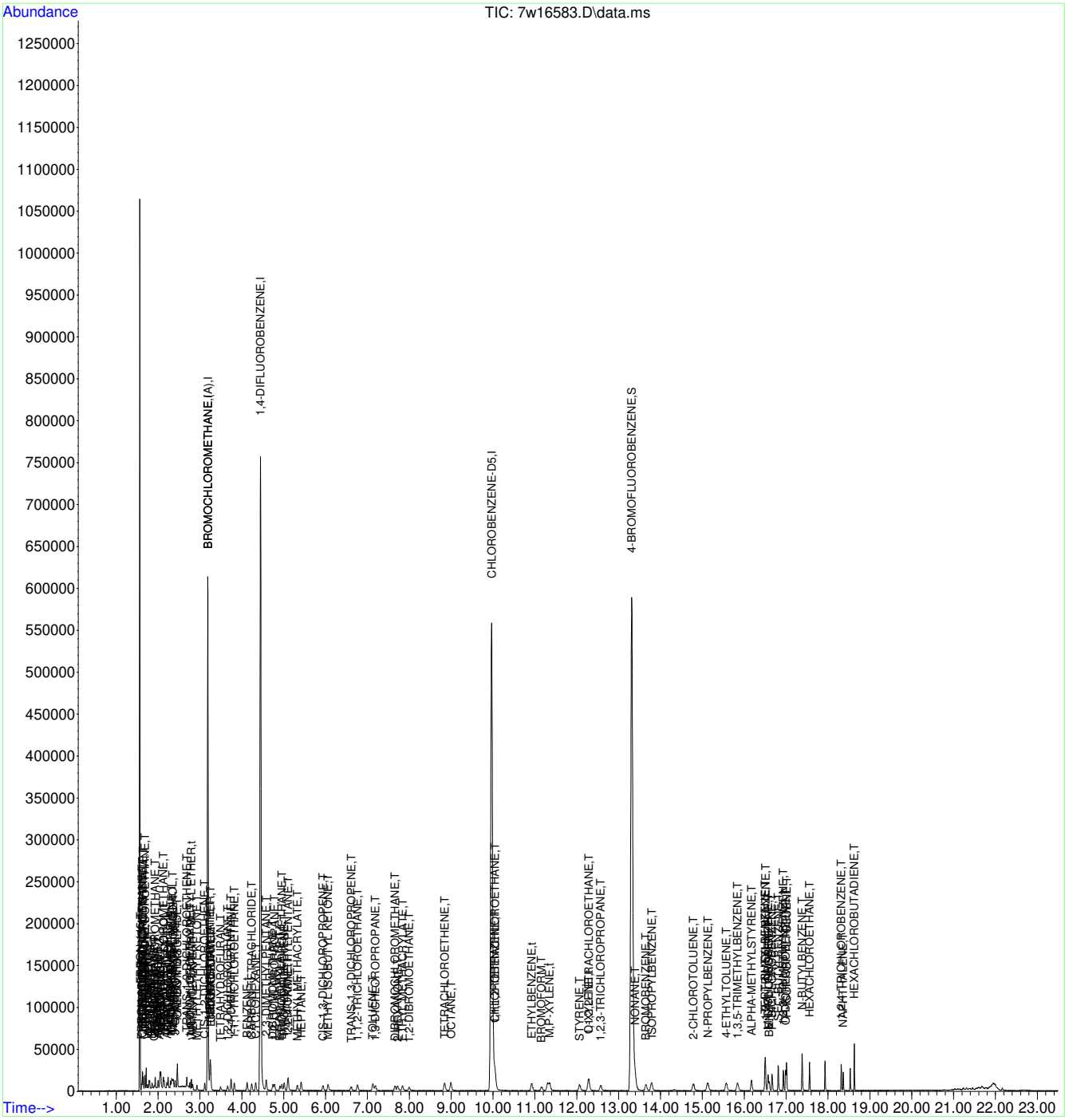
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

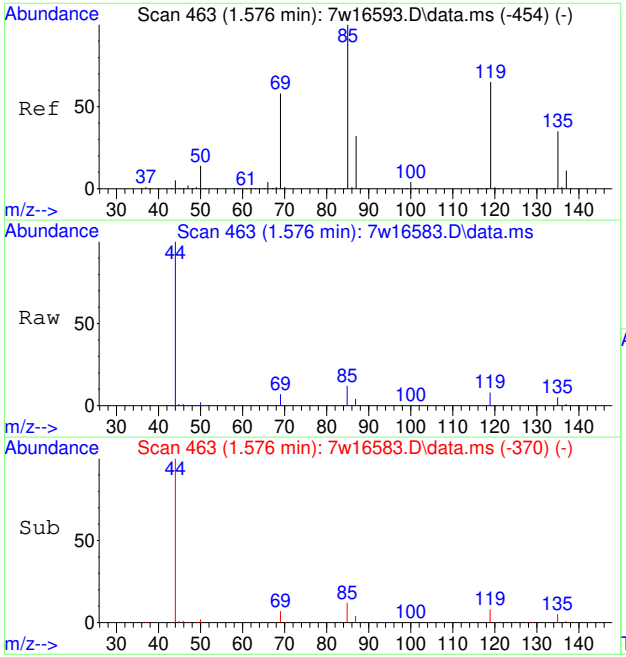
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

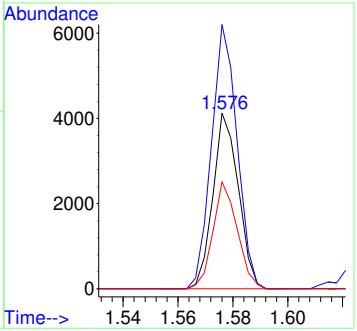


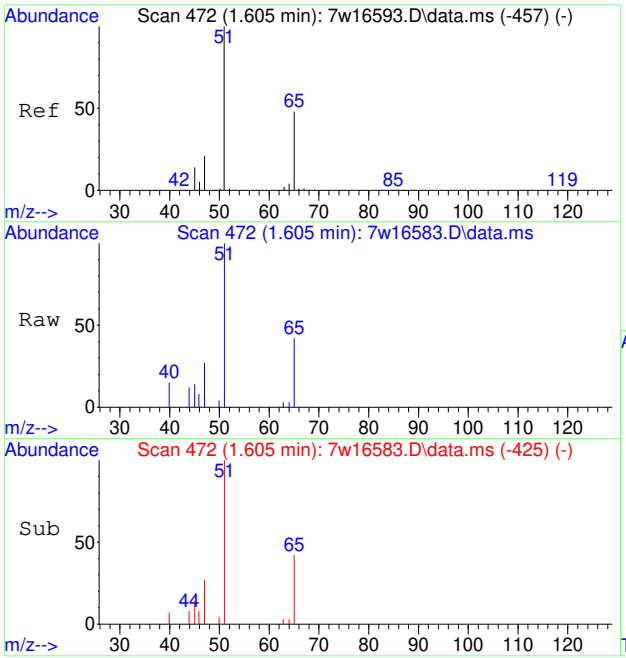


#2
FREON 115
Concen: 0.18 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:119 Resp: 2657

Ion	Ratio	Lower	Upper
119	100		
85	151.2	90.9	168.7
135	58.3	38.2	71.0

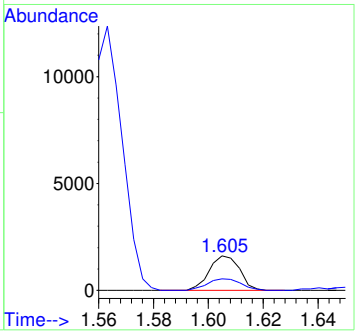


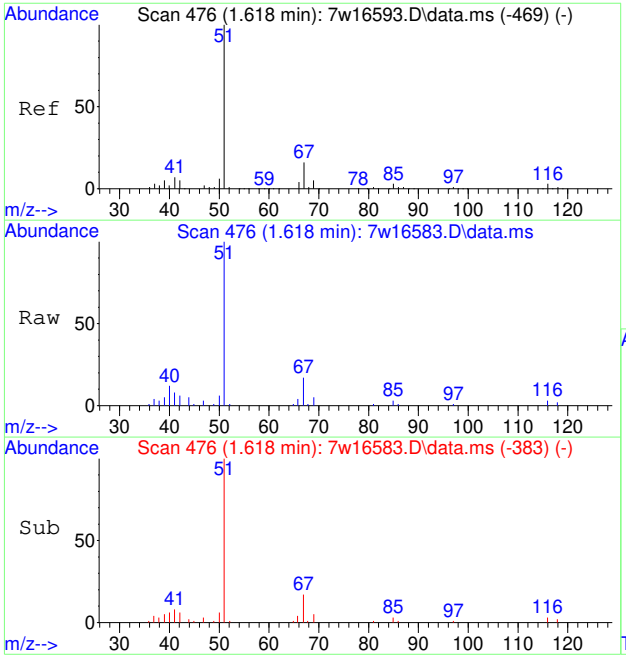


#3
FREON 152A
Concen: 0.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 1240

Ion	Ratio	Lower	Upper
65	100		
45	37.4	20.6	38.4

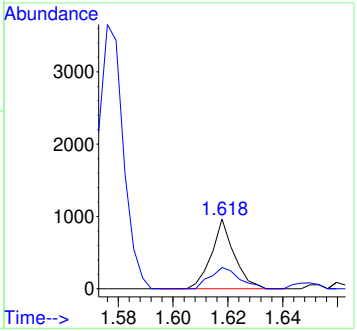


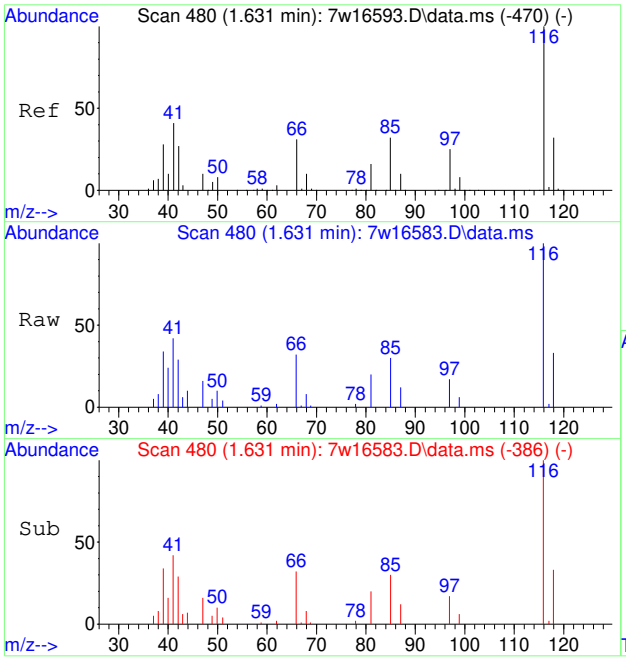


#4
CHLORODIFLUOROMETHANE
Concen: 0.17 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 552

Ion	Ratio	Lower	Upper
67	100		
69	39.3	25.4	47.2

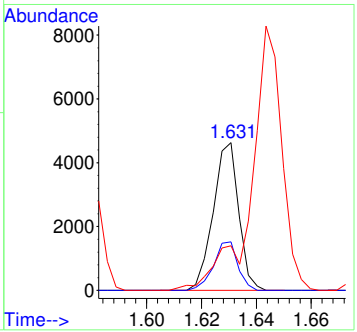


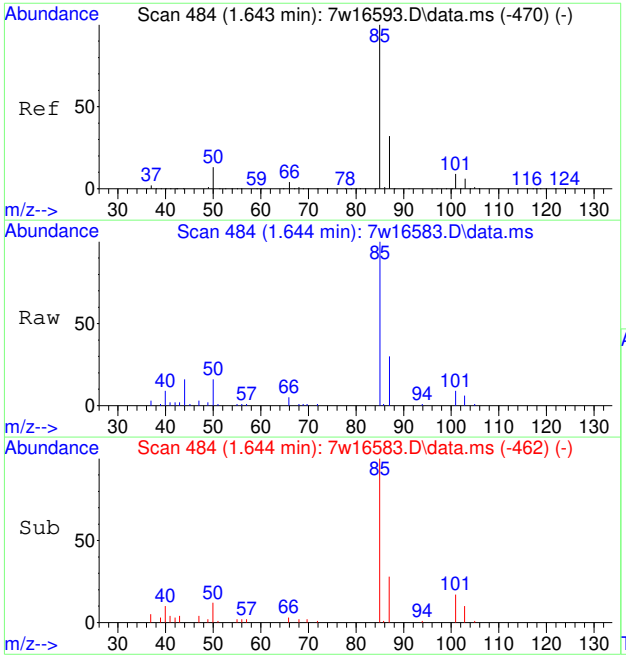


#5
CHLOROTRIFLUOROETHENE
Concen: 0.19 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:116 Resp: 2985

Ion	Ratio	Lower	Upper
116	100		
118	31.6	22.7	42.1
85	215.0	194.7	361.7

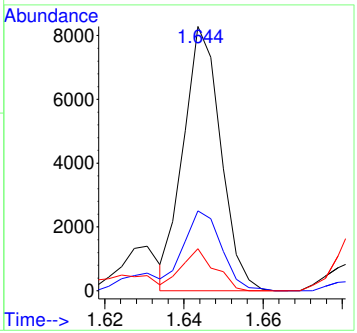


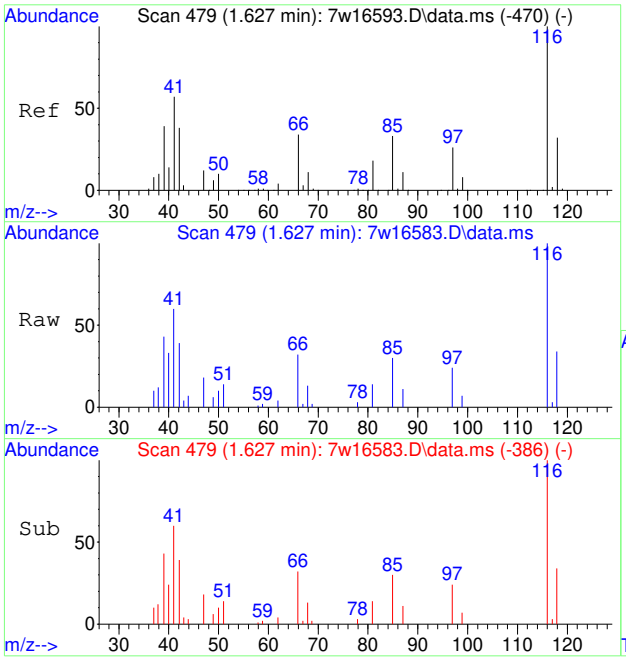


#6
DICHLORODIFLUOROMETHANE
Concen: 0.16 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5428

Ion	Ratio	Lower	Upper
85	100		
87	37.7	23.1	42.9
50	25.0	12.1	22.5#

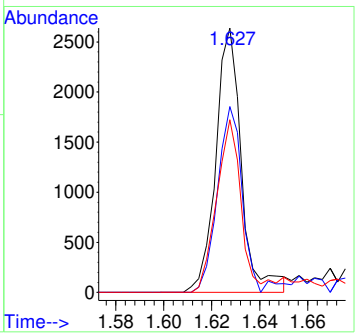


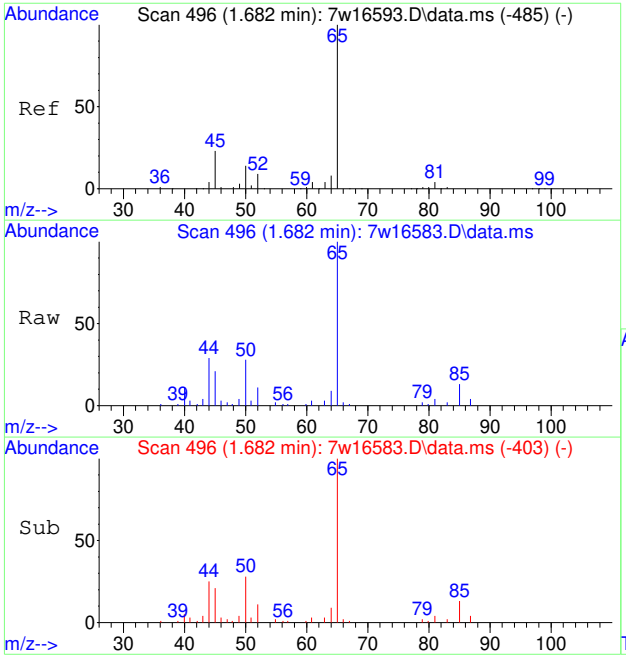


#7
PROPYLENE
Concen: 0.21 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 1949

Ion	Ratio	Lower	Upper
41	100		
39	69.6	51.0	94.8
42	74.5	46.6	86.6

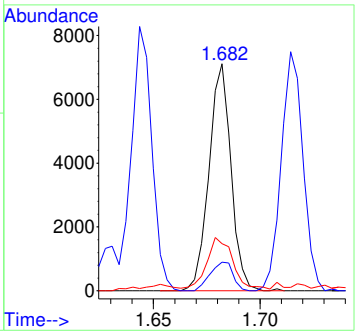


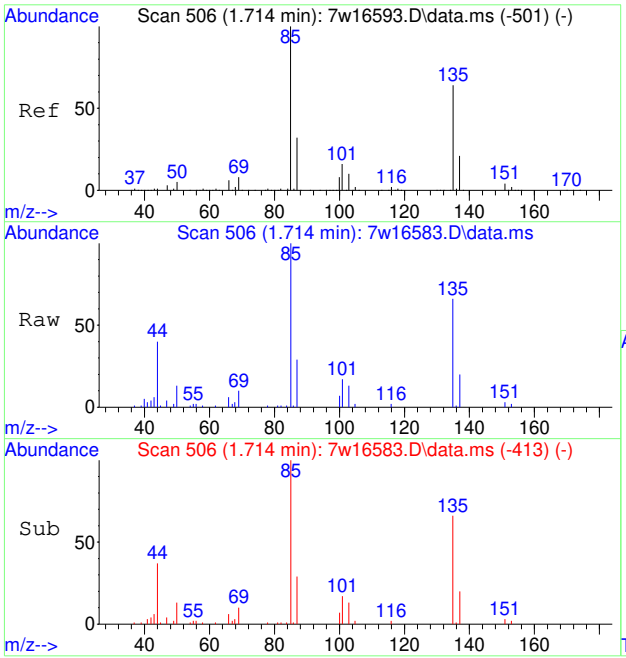


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.20 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 5125

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	33.1	17.0	31.6#

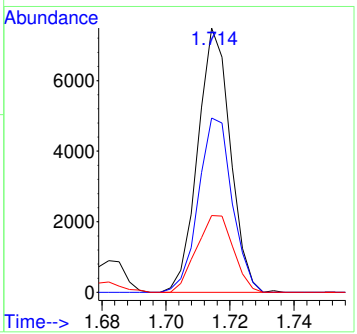


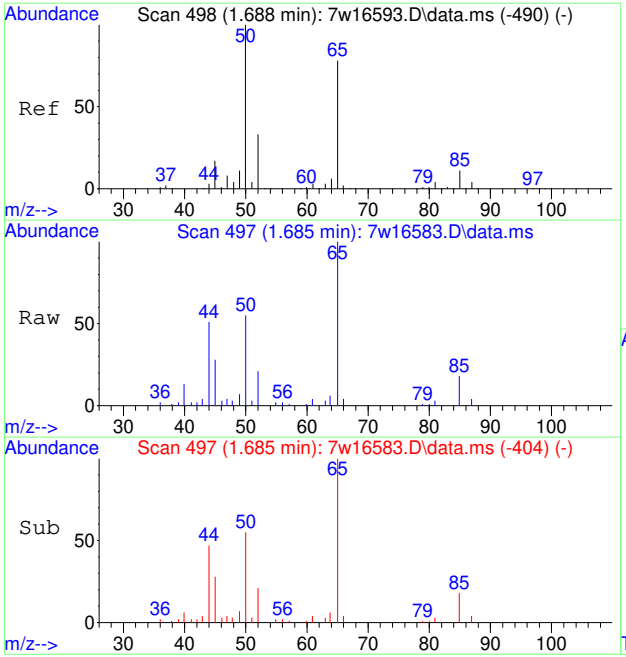


#9
FREON 114
Concen: 0.18 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5306

Ion	Ratio	Lower	Upper
85	100		
135	68.3	61.3	113.9
87	32.8	23.2	43.0

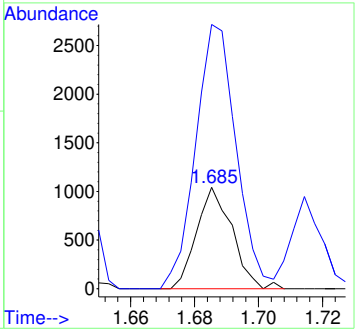


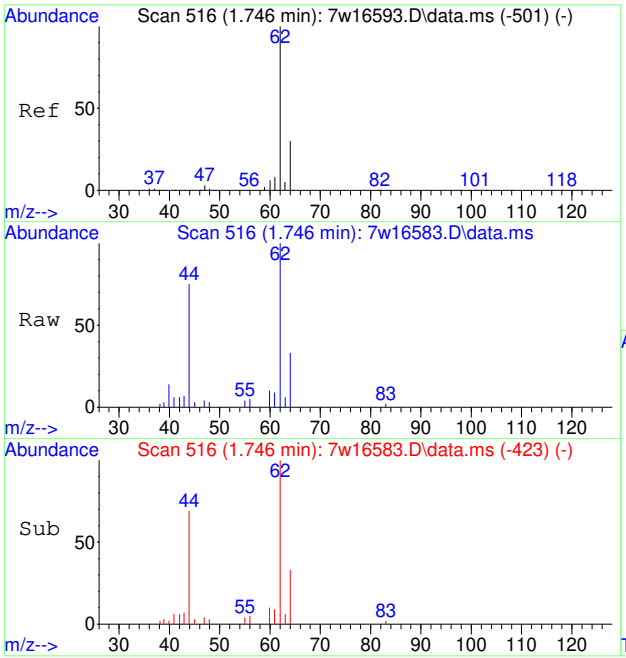


#10
CHLOROMETHANE
Concen: 0.21 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 806

Ion	Ratio	Lower	Upper
52	100		
50	294.8	227.6	422.6

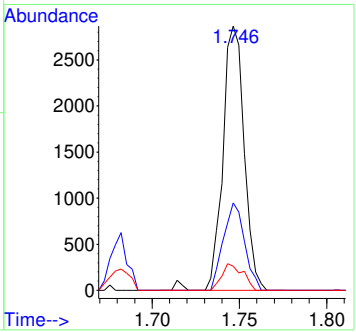


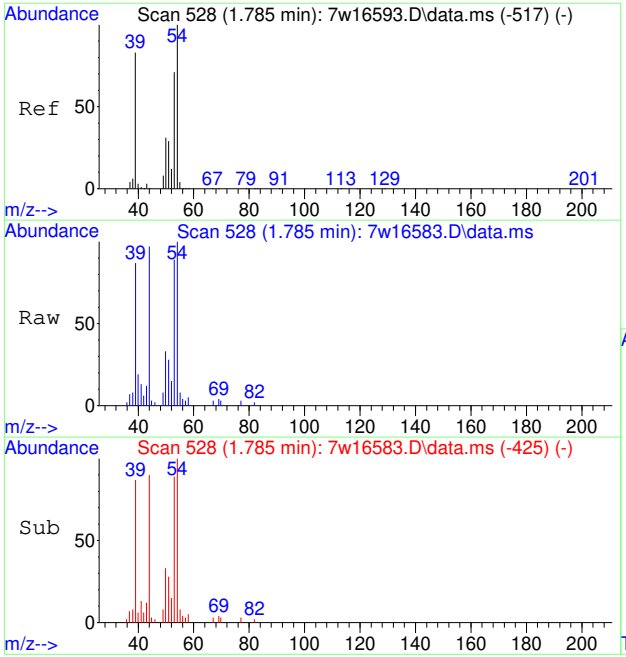


#11
VINYL CHLORIDE
Concen: 0.17 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 2445

Ion	Ratio	Lower	Upper
62	100		
64	32.8	21.6	40.2
61	9.9	5.7	10.7

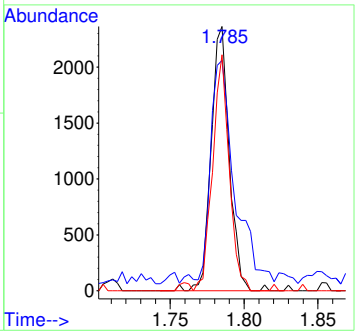


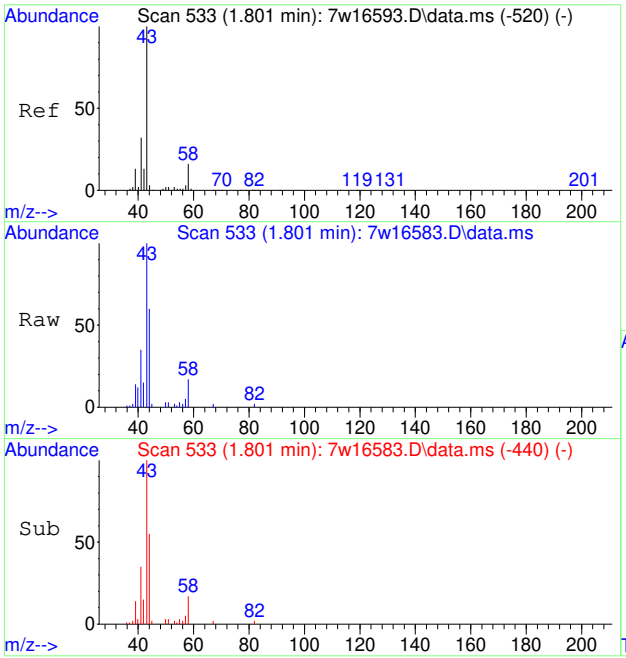


#12
1,3-BUTADIENE
Concen: 0.18 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 54 Resp: 2011

Ion	Ratio	Lower	Upper
54	100		
39	113.5	125.6	185.6#
53	83.8	40.7	100.7

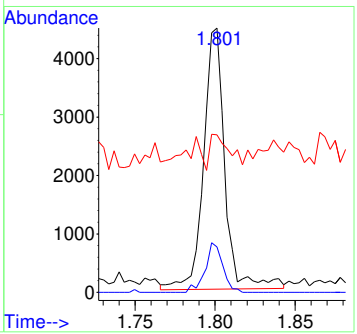


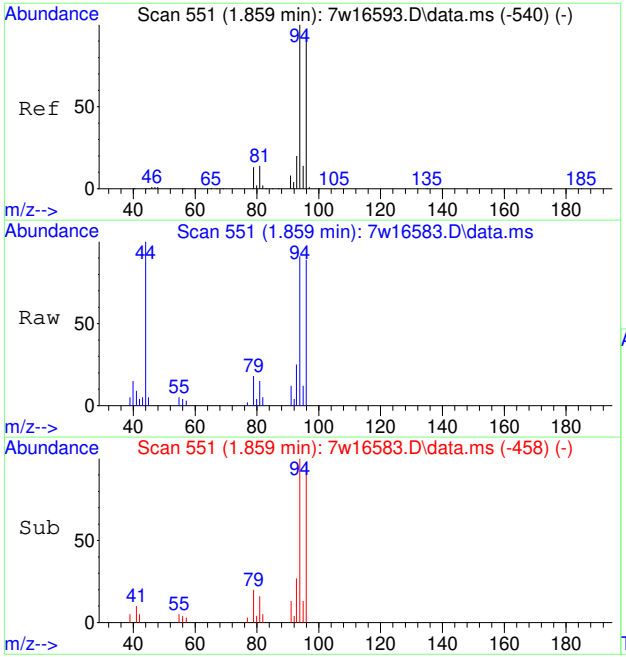


#13
N-BUTANE
Concen: 0.22 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 4132

Ion	Ratio	Lower	Upper
43	100		
58	15.6	10.4	19.4
44	88.8	3.0	5.6#

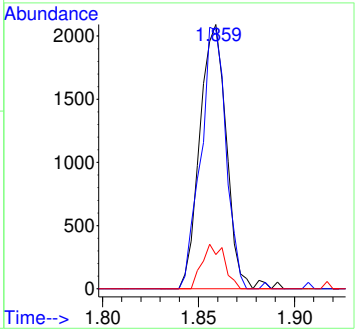


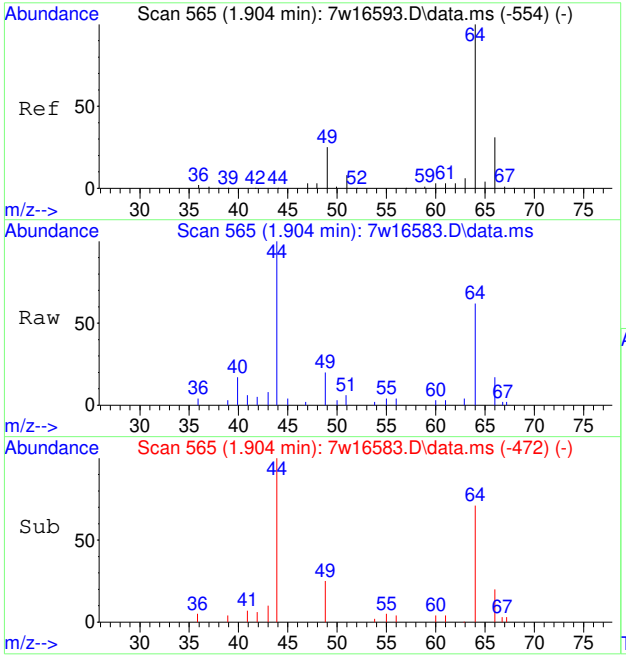


#14
BROMOMETHANE
Concen: 0.19 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 94 Resp: 2032

Ion	Ratio	Lower	Upper
94	100		
96	93.0	63.6	118.0
95	14.1	10.0	18.6

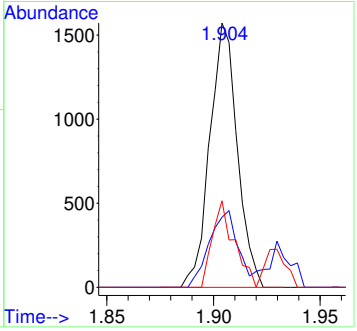


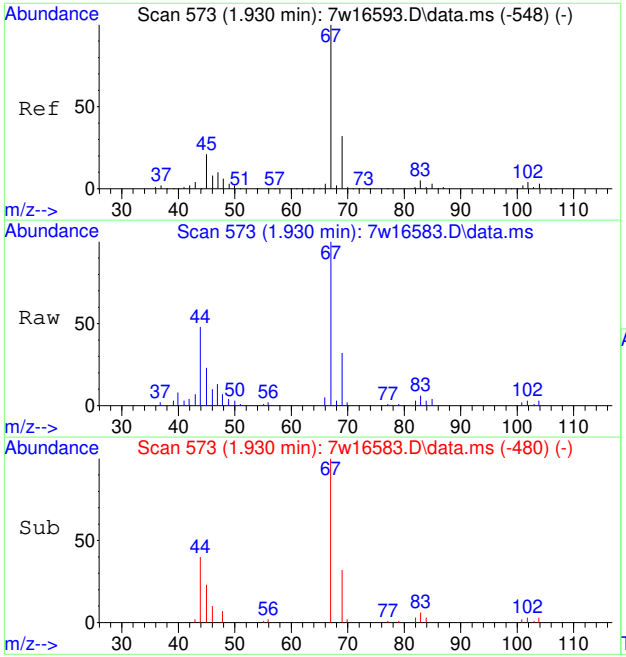


#15
CHLOROETHANE
Concen: 0.19 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 64 Resp: 1408

Ion	Ratio	Lower	Upper
64	100		
66	31.4	23.0	42.6
49	26.1	21.5	39.9

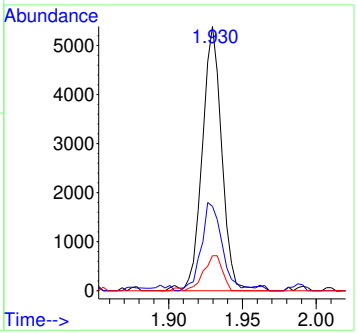


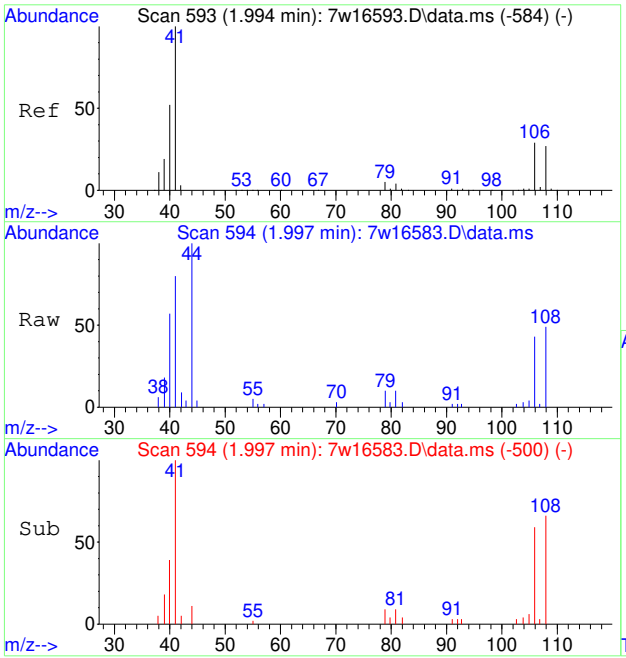


#16
DICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 4948

Ion	Ratio	Lower	Upper
67	100		
69	36.5	23.2	43.0
47	13.1	9.6	17.8

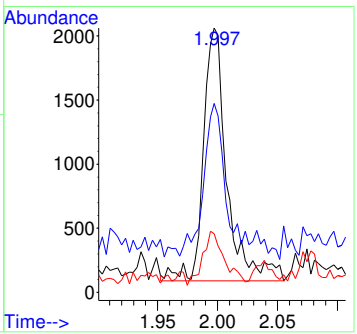


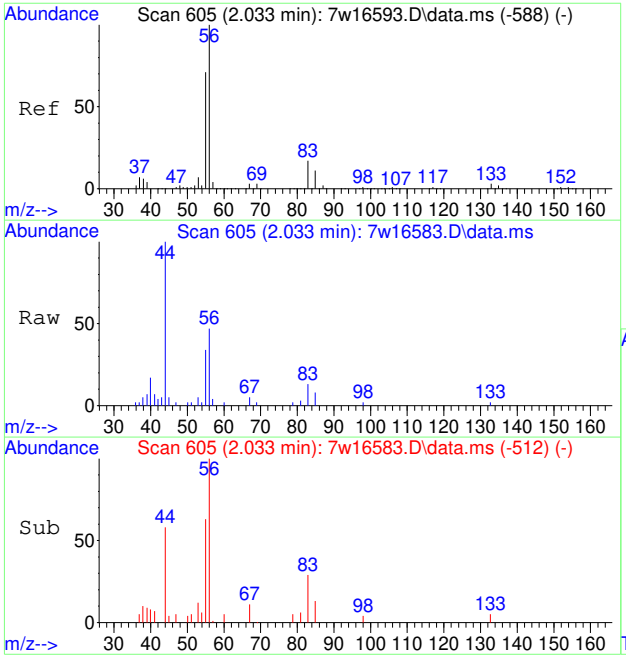


#17
ACETONITRILE
Concen: 0.23 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 2687

Ion	Ratio	Lower	Upper
41	100		
40	55.7	38.4	71.4
39	20.2	14.5	26.9

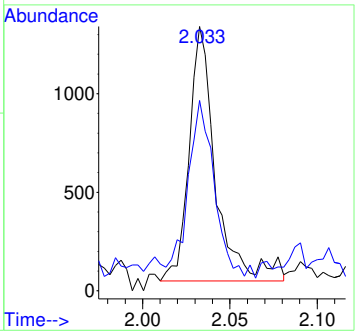


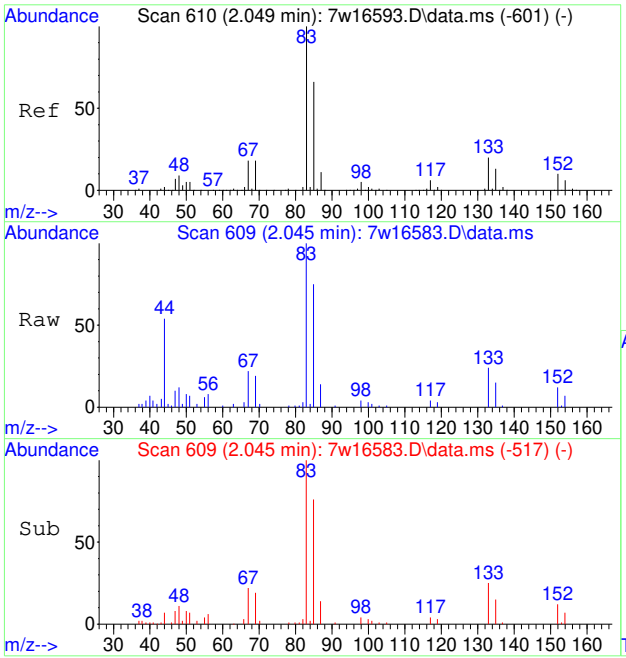


#18
ACROLEIN
Concen: 0.22 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 56 Resp: 1361

Ion	Ratio	Lower	Upper
56	100		
55	62.1	51.2	95.2

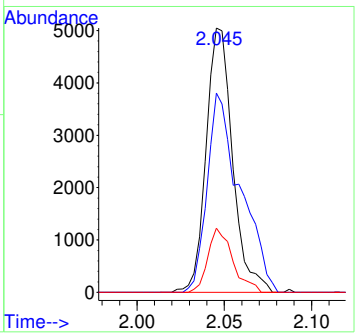


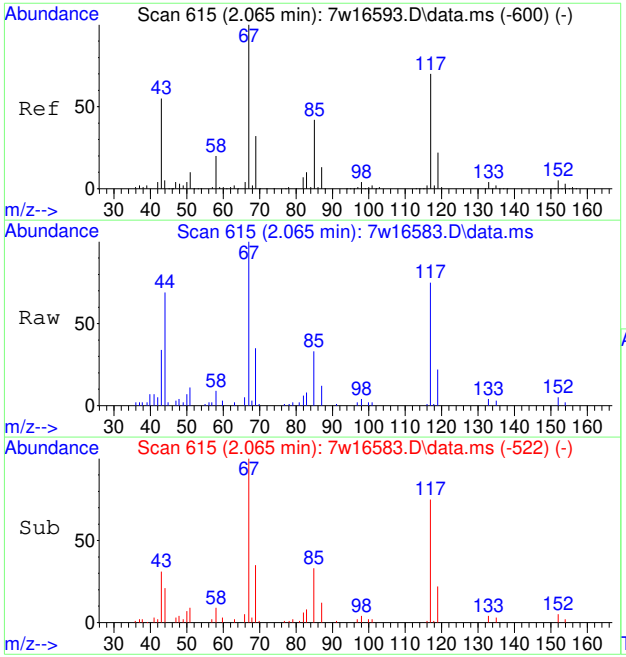


#19
FREON 123
Concen: 0.19 PPBV
RT: 2.045 min Scan# 609
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5339

Ion	Ratio	Lower	Upper
83	100		
85	94.1	65.7	121.9
133	22.7	19.9	36.9

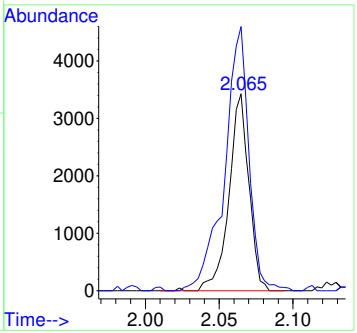


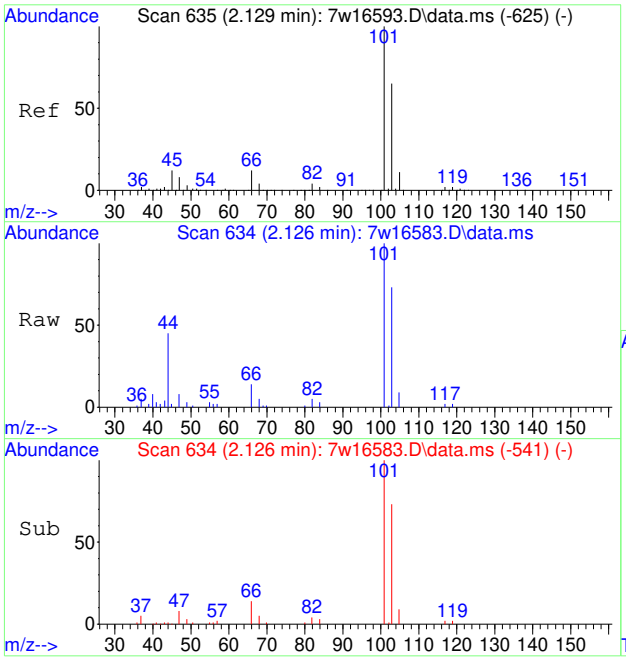


#20
FREON 123A
Concen: 0.20 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3198

Ion	Ratio	Lower	Upper
117	100		
67	164.6	78.8	146.4#

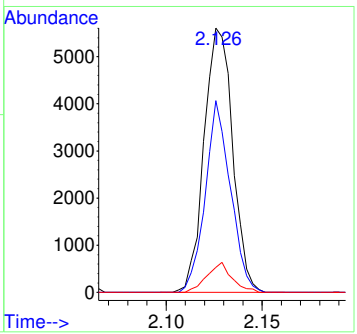


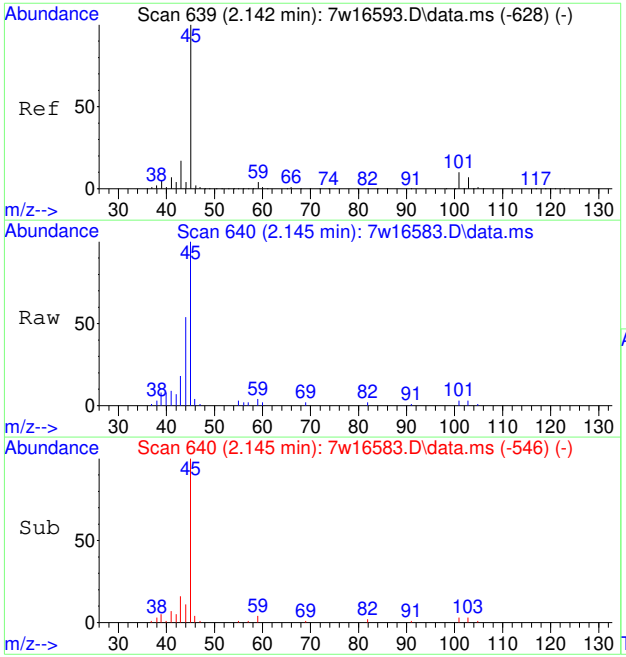


#21
TRICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:101 Resp: 5808

Ion	Ratio	Lower	Upper
101	100		
103	63.9	44.3	82.3
105	9.9	7.3	13.7

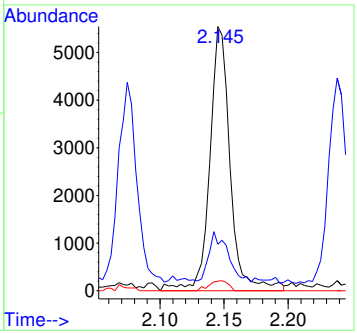


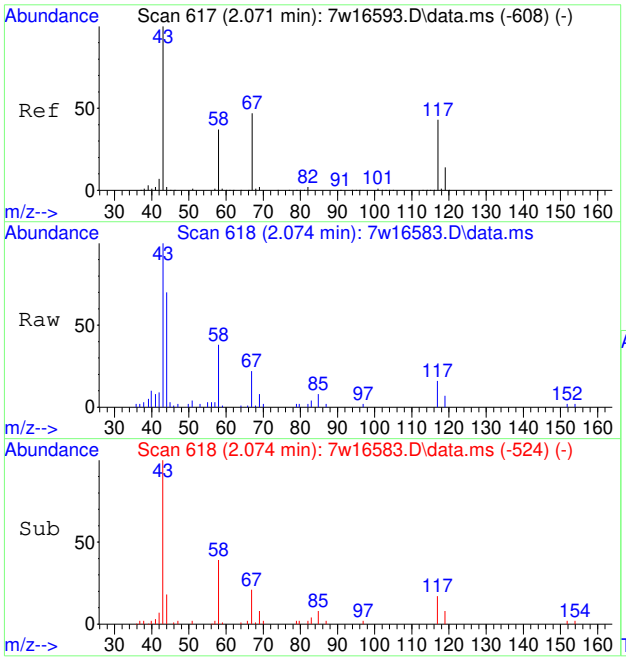


#22
ISOPROPYL ALCOHOL
Concen: 0.23 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 6133

Ion	Ratio	Lower	Upper
45	100		
43	19.2	17.1	31.9
59	3.7	3.1	5.8

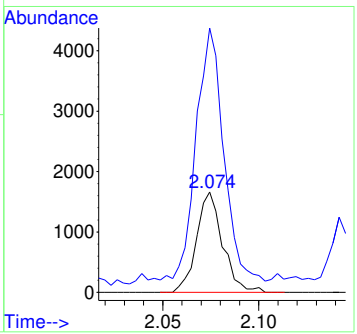


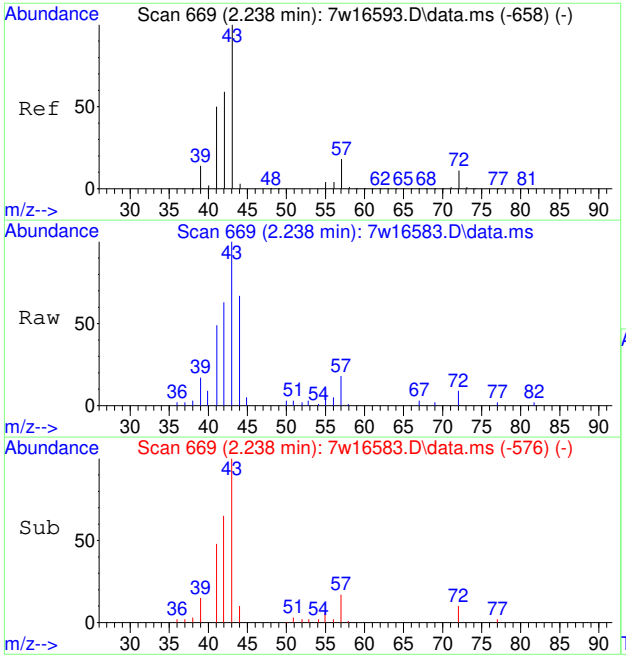


#23
ACETONE
Concen: 0.22 PPBV
RT: 2.074 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 1566

Ion	Ratio	Lower	Upper
58	100		
43	294.4	254.0	471.6

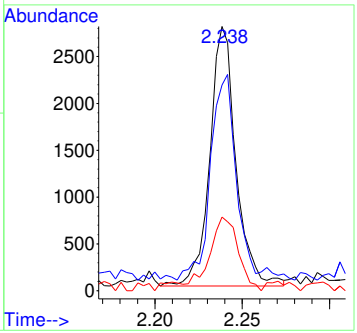


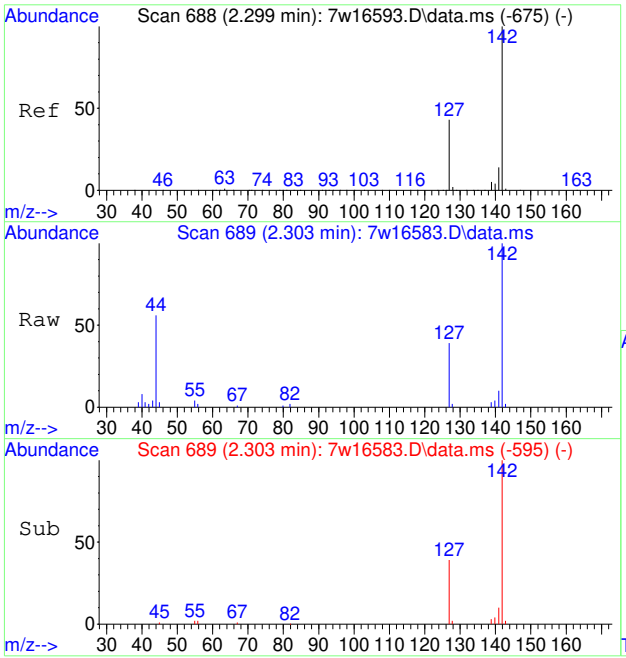


#24
PENTANE
Concen: 0.21 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 42 Resp: 2893

Ion	Ratio	Lower	Upper
42	100		
41	80.3	69.2	128.6
57	35.3	18.6	34.6#

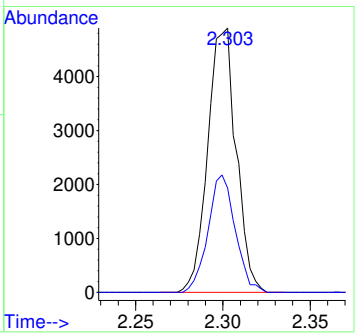


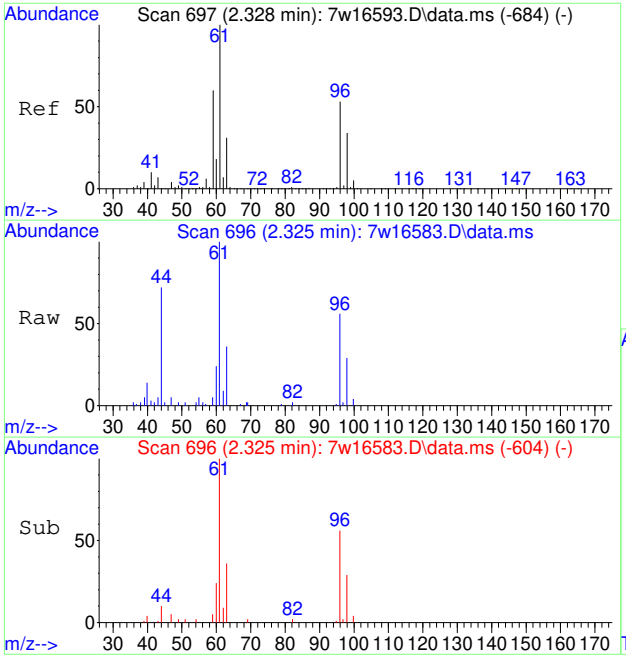


#25
IODOMETHANE
Concen: 0.19 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:142 Resp: 5560

Ion	Ratio	Lower	Upper
142	100		
127	42.5	32.1	59.7

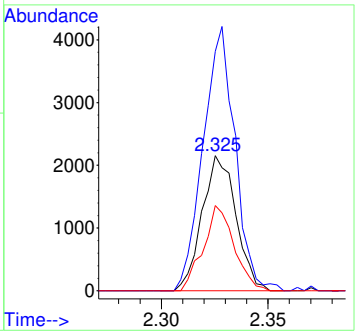


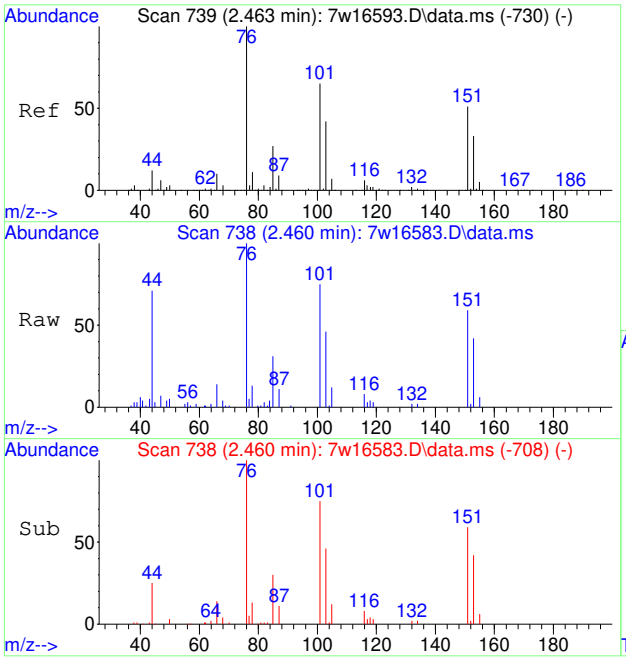


#26
1,1-DICHLOROETHYLENE
Concen: 0.20 PPBV
RT: 2.325 min Scan# 696
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2379

Ion	Ratio	Lower	Upper
96	100		
61	184.2	98.3	182.5#
63	57.3	33.2	61.7

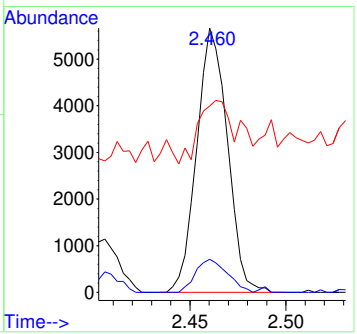


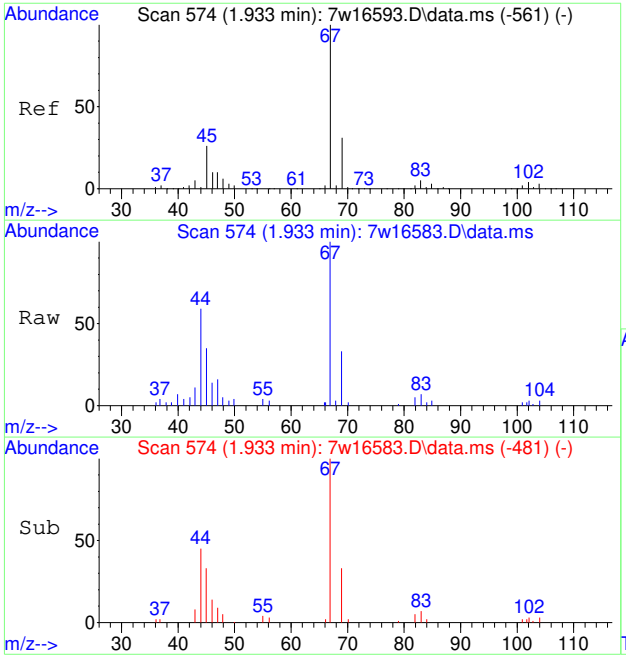


#27
CARBON DISULFIDE
Concen: 0.18 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 6298

Ion	Ratio	Lower	Upper
76	100		
78	13.5	8.3	15.3
44	32.0	13.0	24.1#

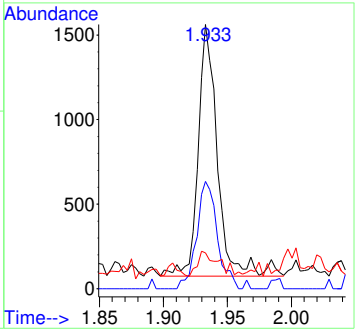


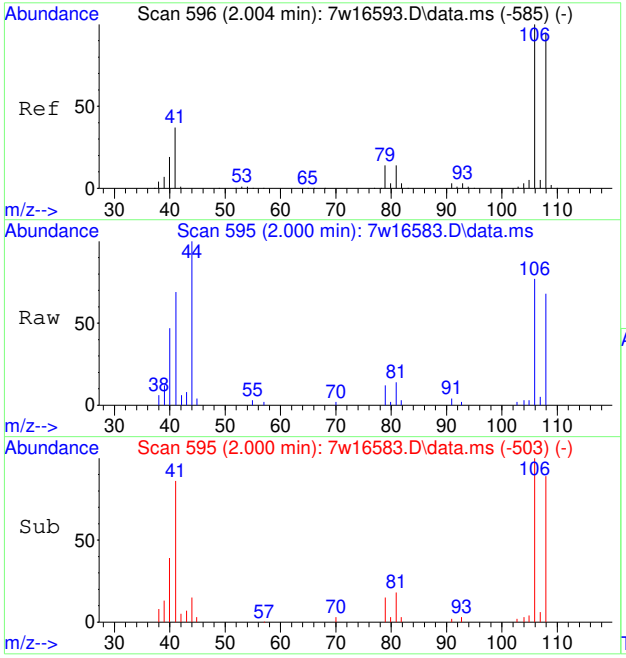


#28
ETHANOL
Concen: 0.23 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 1573

Ion	Ratio	Lower	Upper
45	100		
46	45.7	29.7	55.1
42	11.8	7.3	13.5

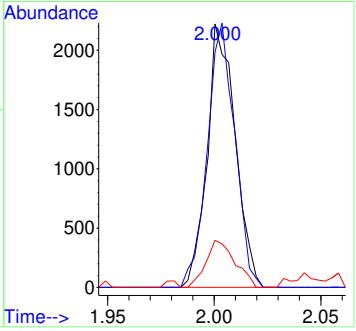


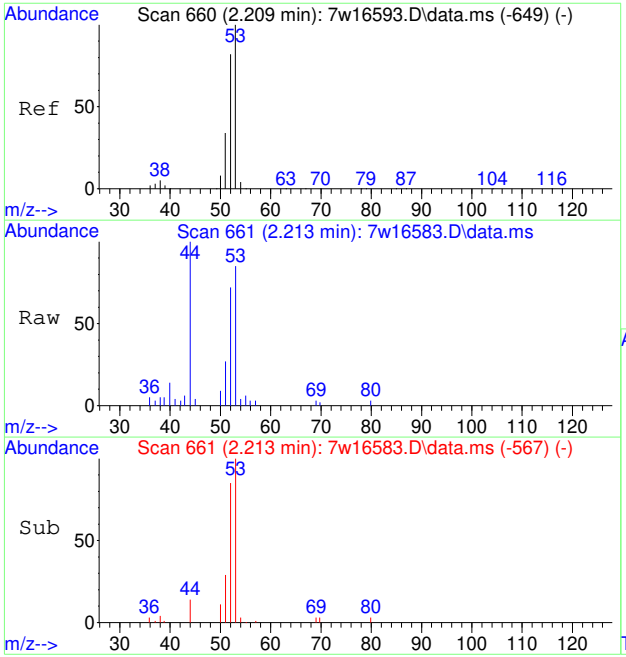


#29
BROMOETHENE
Concen: 0.18 PPBV
RT: 2.000 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:106 Resp: 2033

Ion	Ratio	Lower	Upper
106	100		
108	98.3	68.3	126.8
81	19.5	14.7	27.3

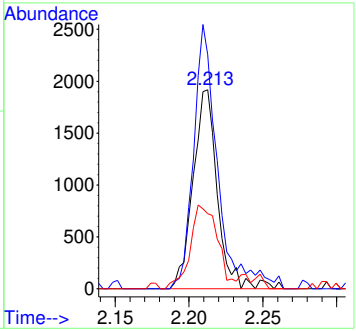


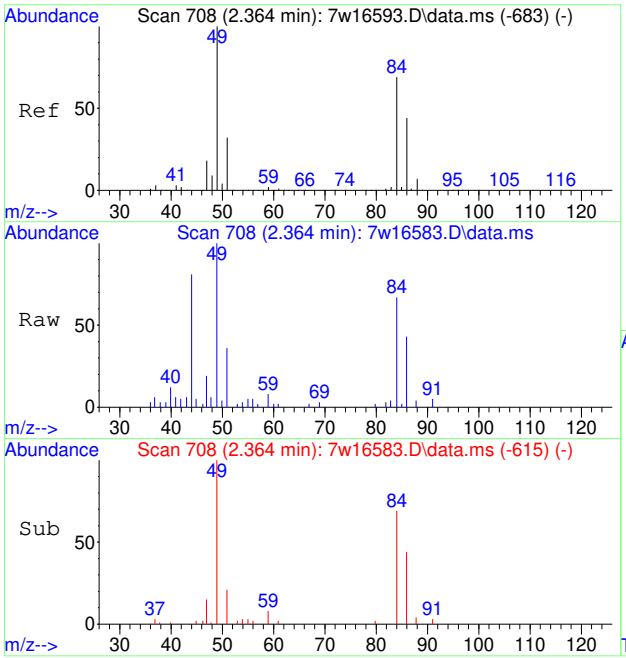


#30
ACRYLONITRILE
Concen: 0.22 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 2213

Ion	Ratio	Lower	Upper
52	100		
53	130.7	86.3	160.3
51	48.0	33.6	62.4

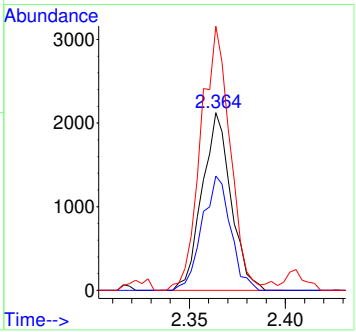


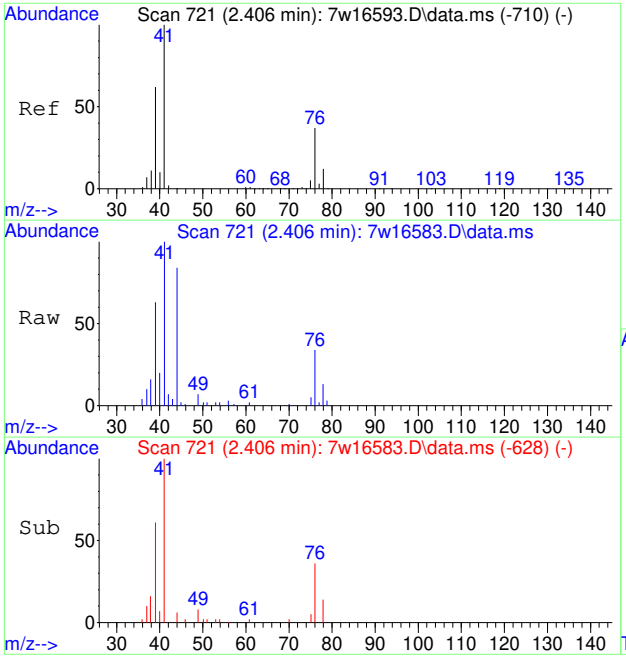


#31
METHYLENE CHLORIDE
Concen: 0.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 2222

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.9	83.5
49	150.6	79.7	148.1#

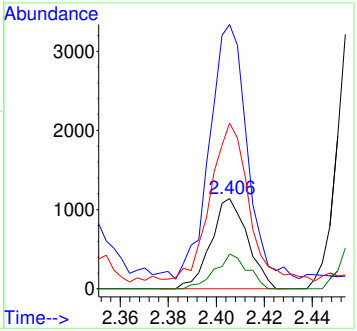


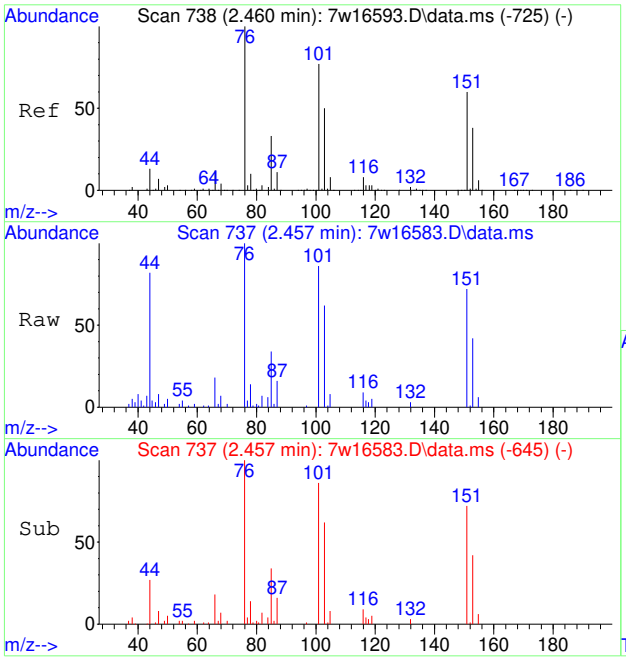


#32
3-CHLOROPROPENE
Concen: 0.19 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 1202

Ion	Ratio	Lower	Upper
76	100		
41	279.0	160.9	298.9
39	185.3	150.7	279.9
78	34.5	22.7	42.1

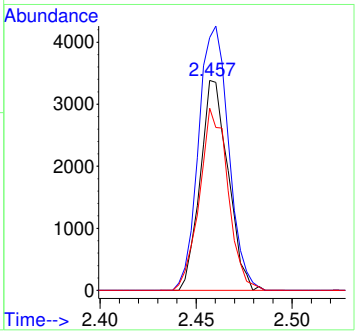


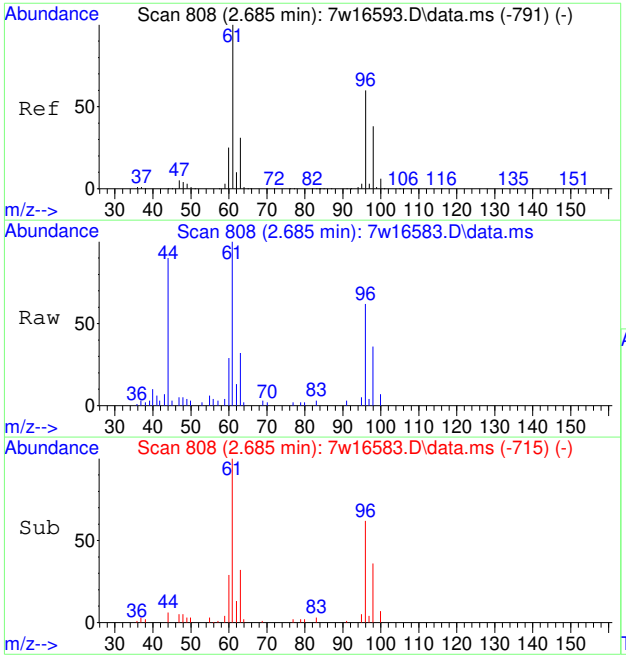


#33
FREON 113
Concen: 0.19 PPBV
RT: 2.457 min Scan# 737
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:151 Resp: 3430

Ion	Ratio	Lower	Upper
151	100		
101	135.4	81.1	150.7
103	88.3	51.4	95.4

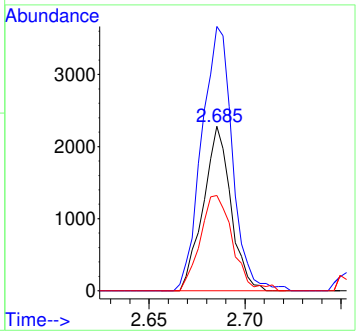


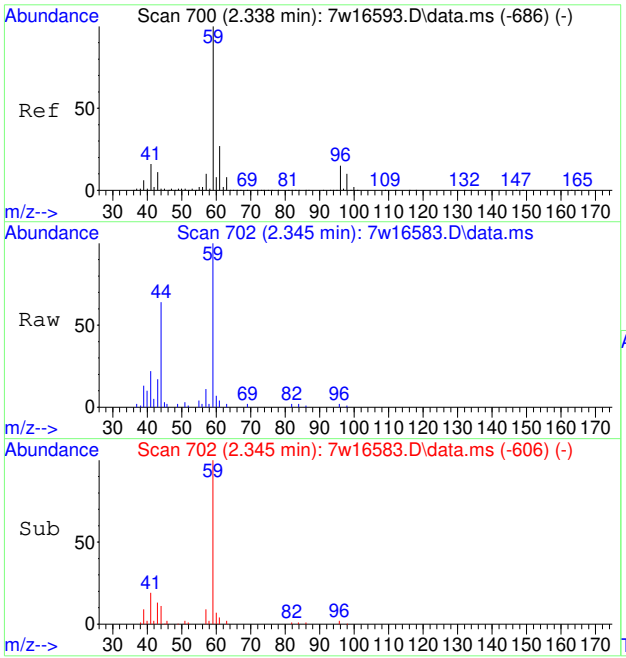


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.18 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2282

Ion	Ratio	Lower	Upper
96	100		
61	178.7	78.5	145.9#
98	68.1	46.5	86.3

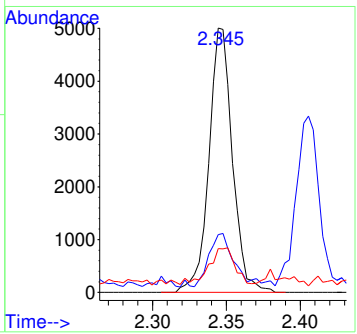


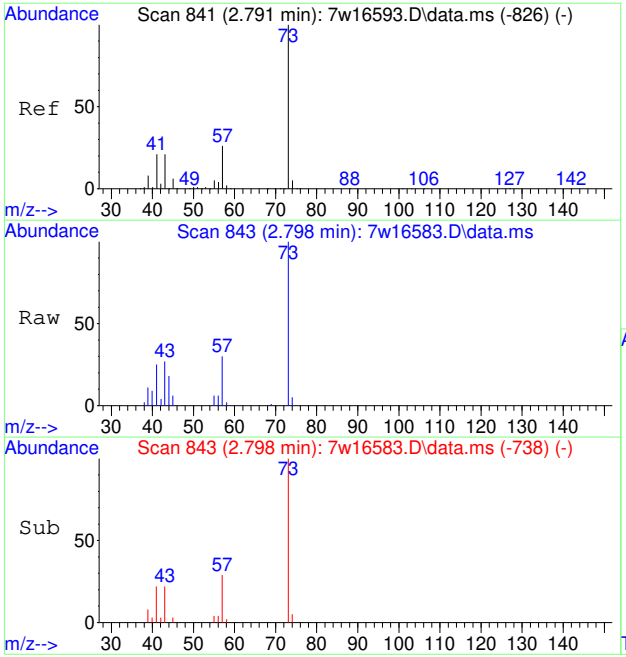


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.17 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 5515

Ion	Ratio	Lower	Upper
59	100		
41	22.6	15.3	28.5
43	15.4	12.3	22.9

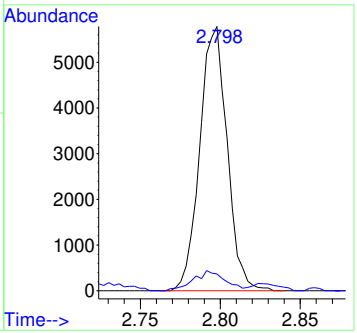


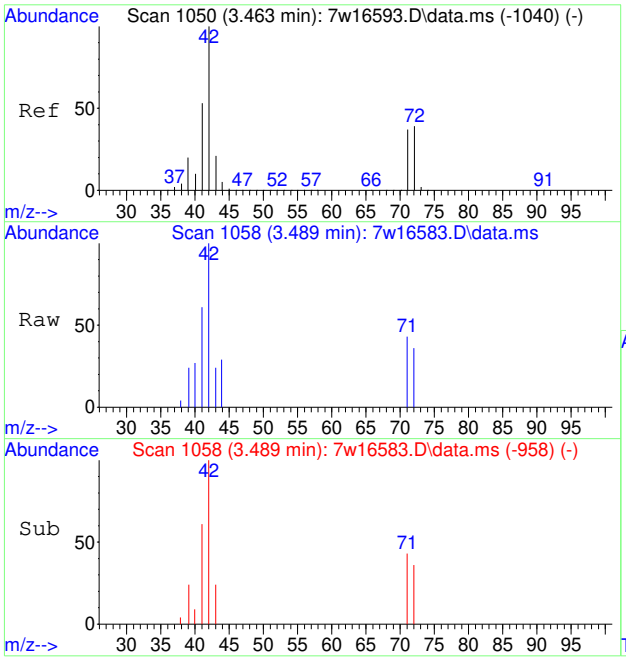


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.19 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 73 Resp: 6887

Ion	Ratio	Lower	Upper
73	100		
45	8.7	3.4	6.4#

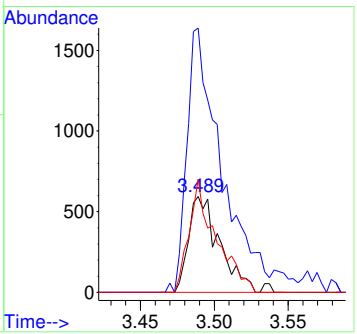


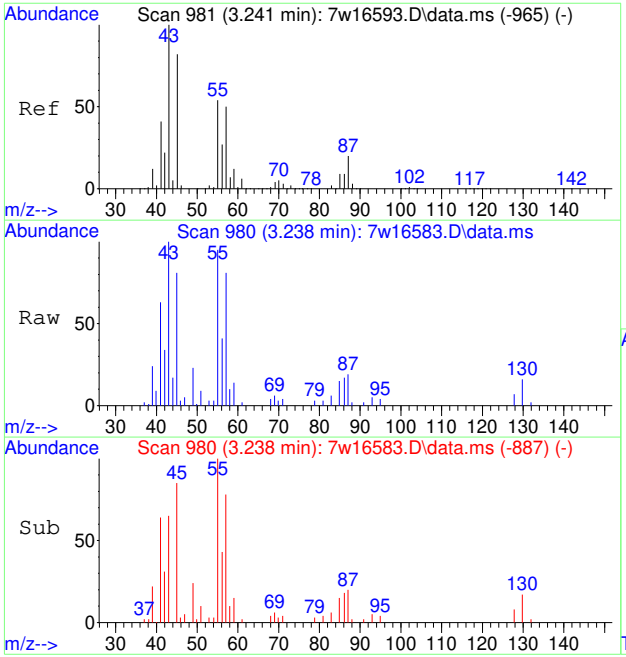


#37
TETRAHYDROFURAN
Concen: 0.14 PPBV
RT: 3.489 min Scan# 1058
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 887

Ion	Ratio	Lower	Upper
72	100		
42	327.1	153.0	284.2#
71	100.5	62.7	116.5

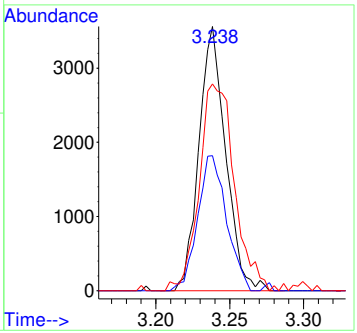


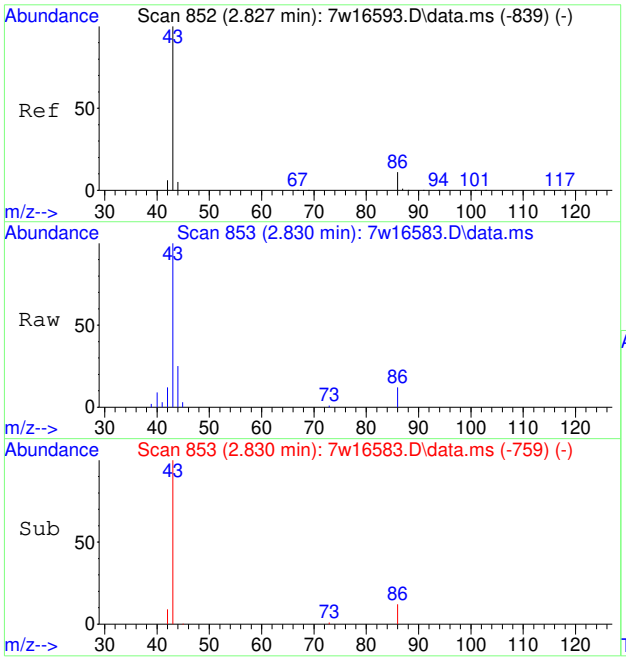


#38
HEXANE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 4468

Ion	Ratio	Lower	Upper
57	100		
56	56.0	37.3	69.3
41	104.9	86.7	161.1

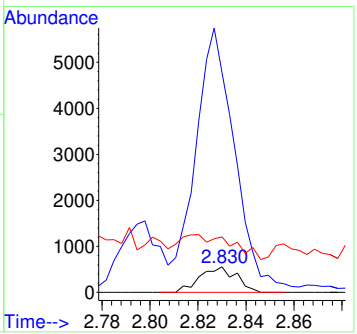


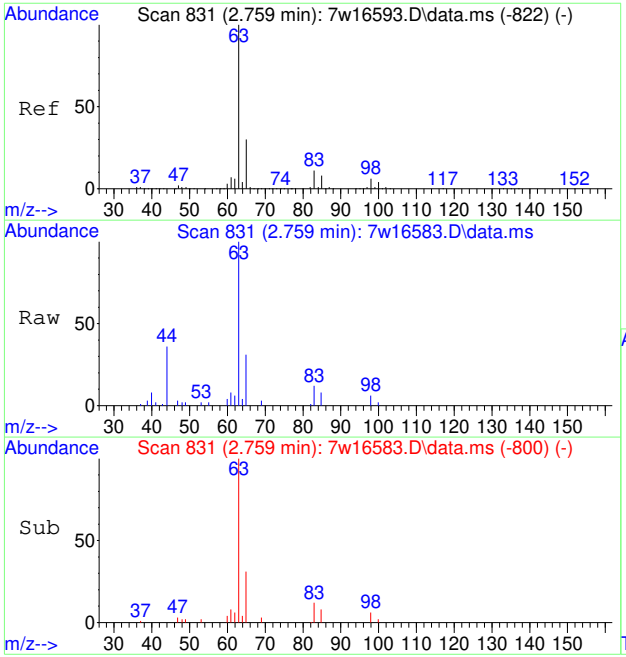


#39
VINYL ACETATE
Concen: 0.16 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 86 Resp: 581

Ion	Ratio	Lower	Upper
86	100		
43	1147.3	667.9	1240.3
44	110.5	32.7	60.7#

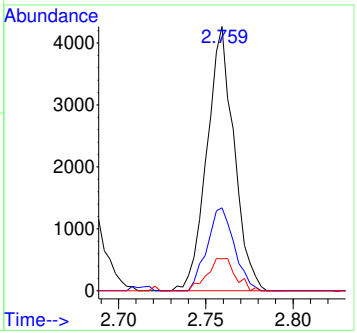


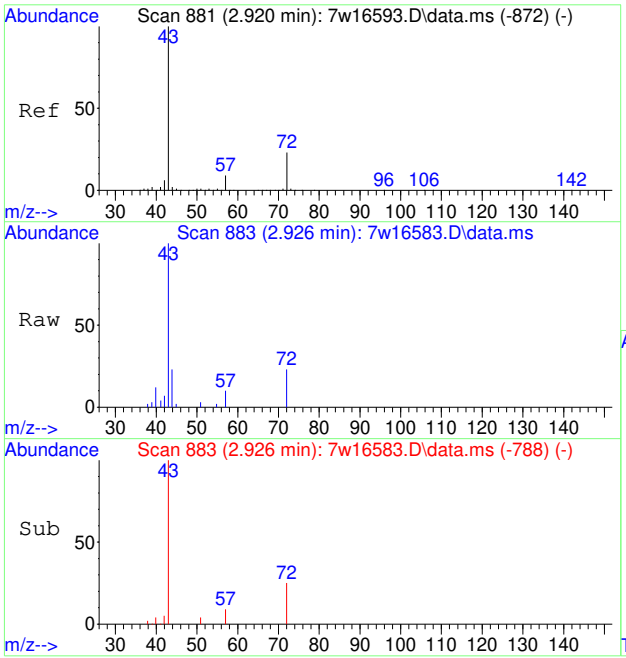


#40
1,1-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 4599

Ion	Ratio	Lower	Upper
63	100		
65	31.7	21.8	40.6
83	12.7	10.6	19.6

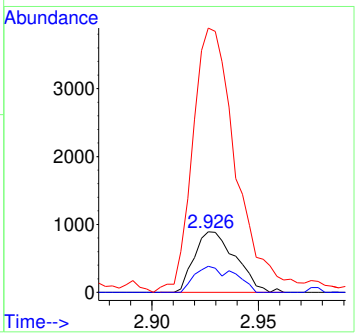


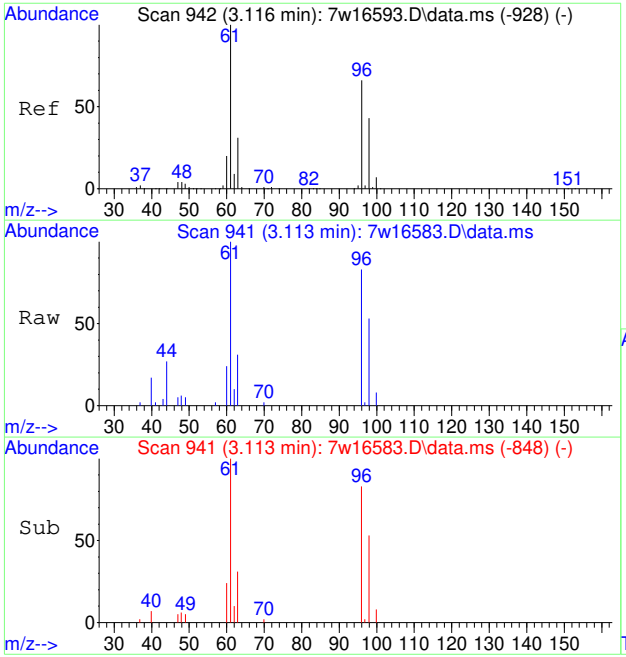


#41
METHYL ETHYL KETONE
Concen: 0.18 PPBV
RT: 2.926 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 1205

Ion	Ratio	Lower	Upper
72	100		
57	41.7	20.3	37.7#
43	447.8	282.8	525.2

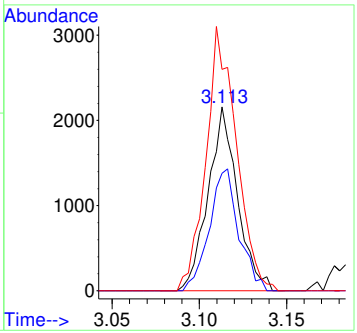


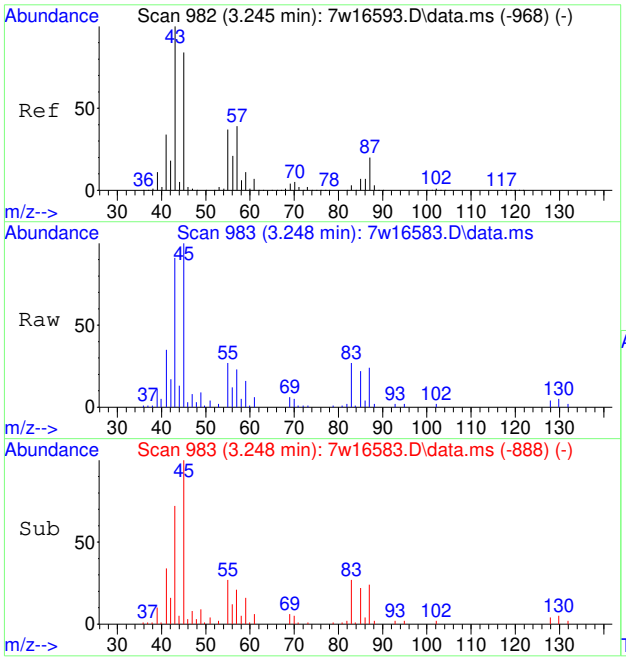


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.19 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2527

Ion	Ratio	Lower	Upper
96	100		
98	66.4	46.8	86.8
61	148.8	78.3	145.5#

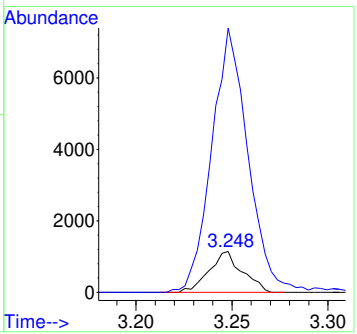


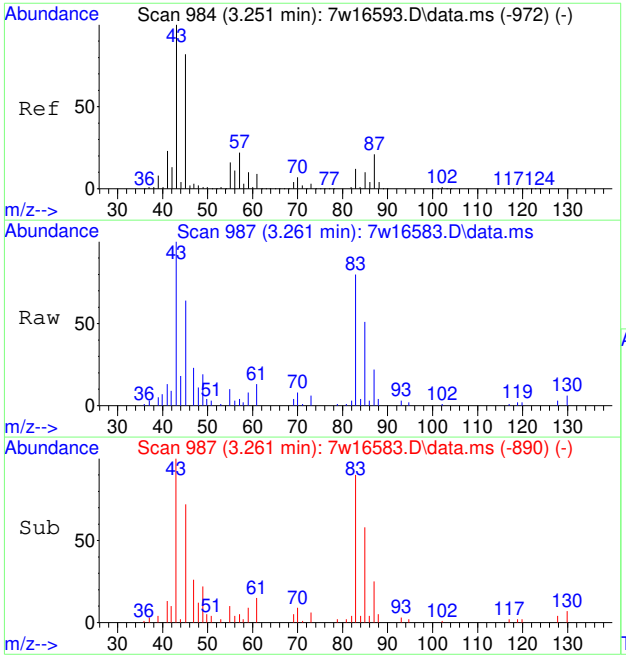


#43
DIISOPROPYL ETHER
Concen: 0.20 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 1371

Ion	Ratio	Lower	Upper
59	100		
45	718.4	532.1	988.1

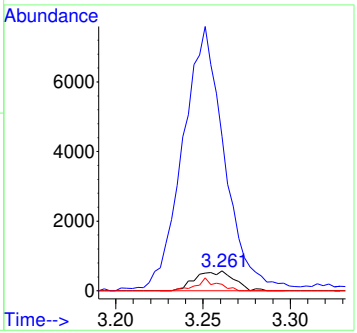


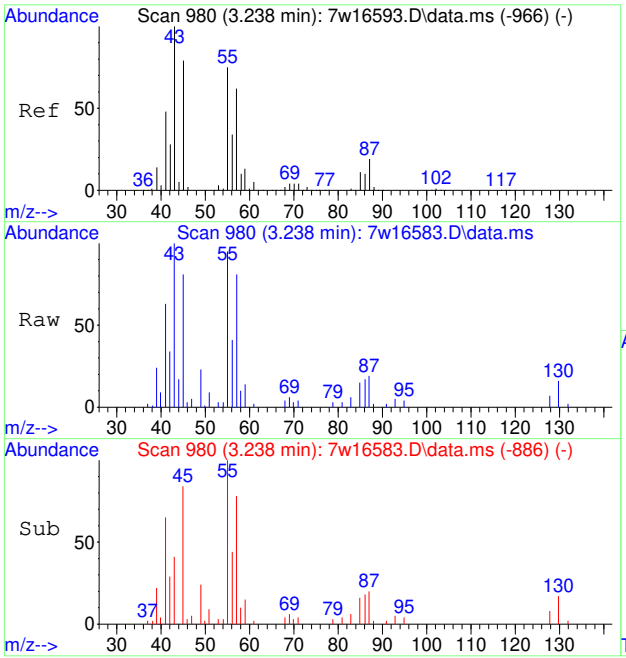


#44
ETHYL ACETATE
Concen: 0.18 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 61 Resp: 871

Ion	Ratio	Lower	Upper
61	100		
43	1463.9	1127.5	2093.9
88	36.2	36.2	67.2#

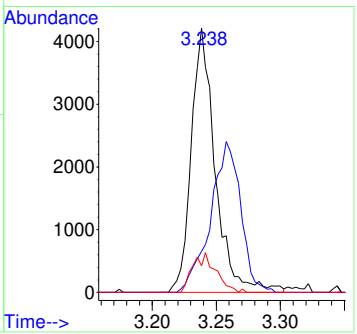


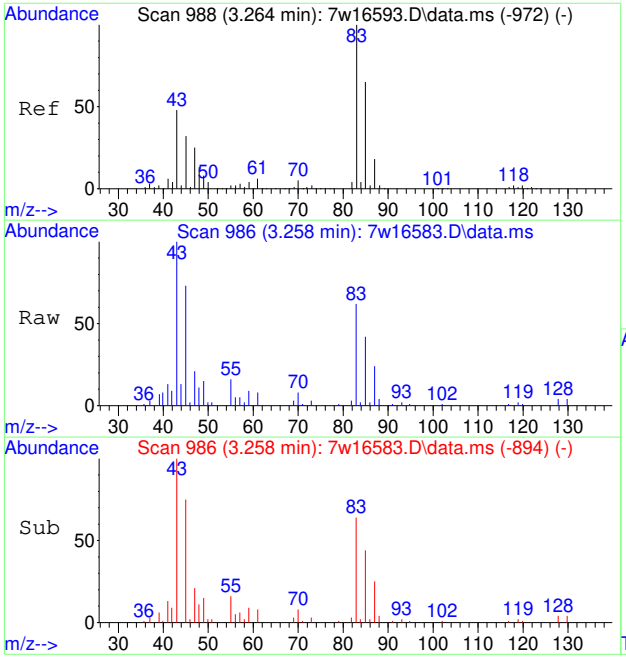


#45
METHYL ACRYLATE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 5488

Ion	Ratio	Lower	Upper
55	100		
85	71.8	0.0	0.0#
58	14.5	9.2	17.0

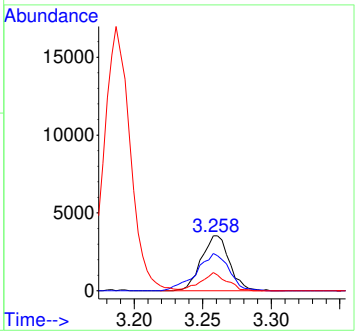


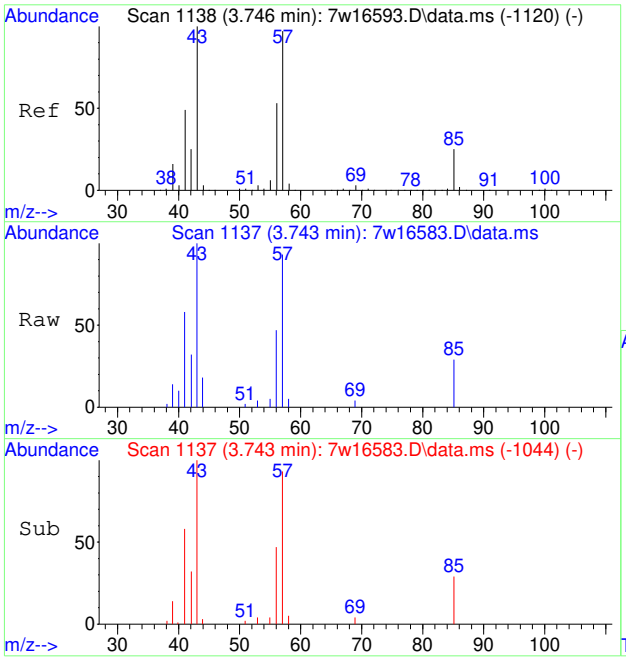


#46
CHLOROFORM
Concen: 0.19 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5027

Ion	Ratio	Lower	Upper
83	100		
85	78.4	54.6	101.4
47	30.5	17.9	33.3

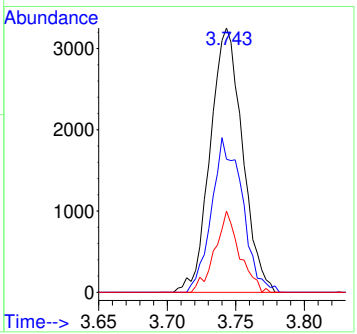


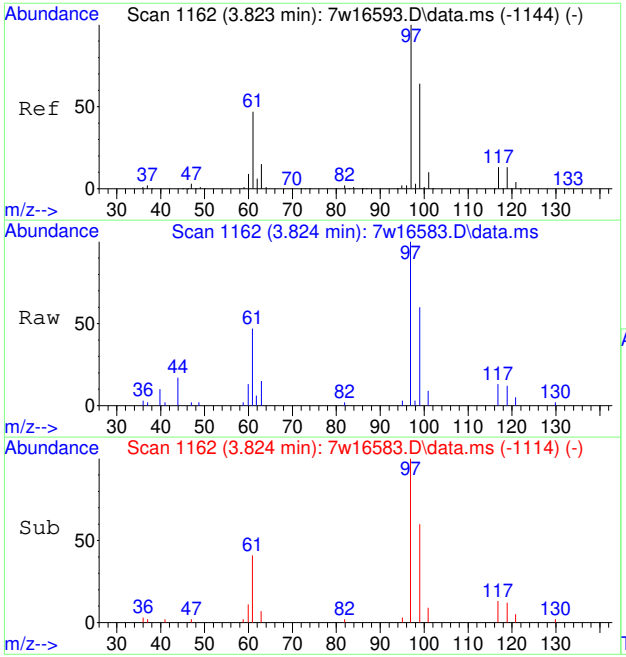


#47
2,4-DIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 5307

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	23.6	24.1	44.7#

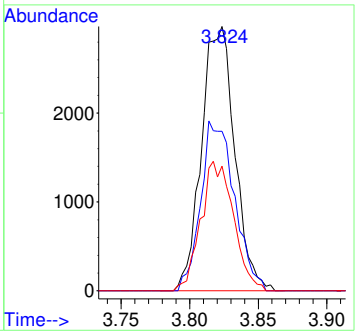


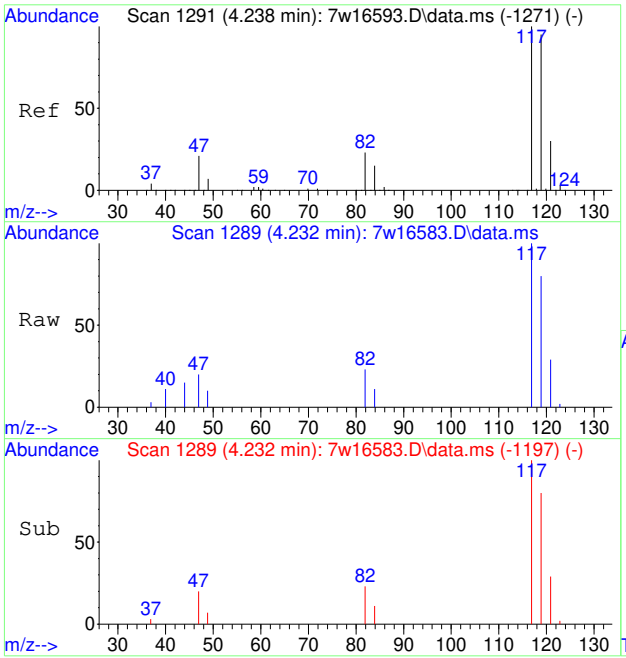


#48
1,1,1-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 97 Resp: 5006

Ion	Ratio	Lower	Upper
97	100		
99	64.9	44.9	83.5
61	48.3	28.6	53.0

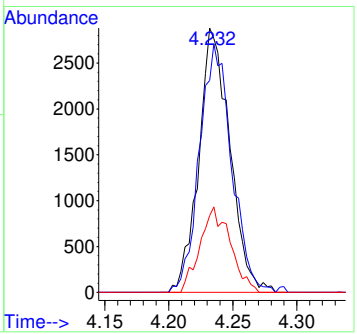


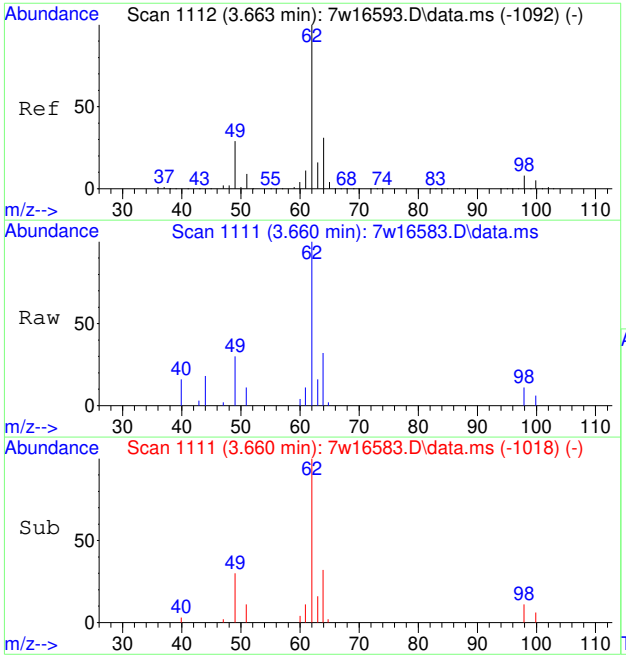


#49
CARBON TETRACHLORIDE
Concen: 0.16 PPBV
RT: 4.232 min Scan# 1289
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 4884

Ion	Ratio	Lower	Upper
117	100		
119	97.2	68.8	127.8
121	31.6	22.2	41.2

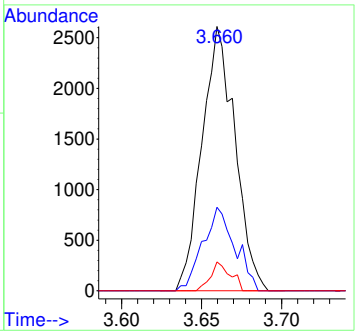


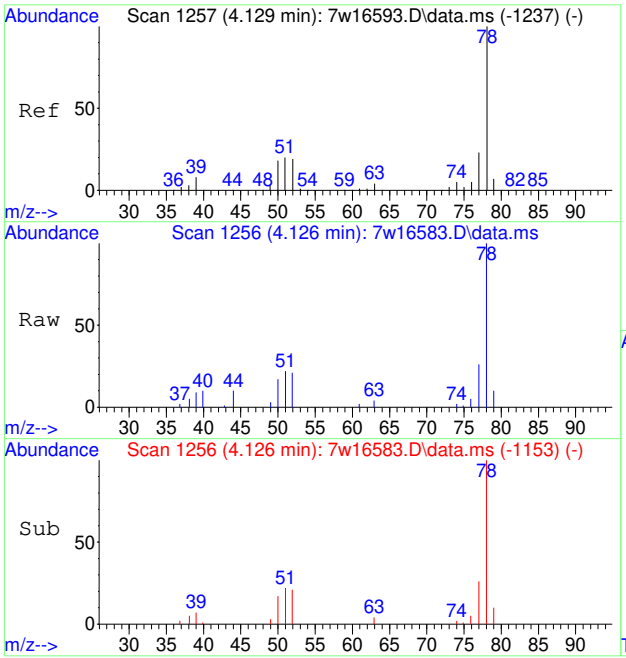


#50
1,2-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.660 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 3746

Ion	Ratio	Lower	Upper
62	100		
64	30.7	22.5	41.7
98	6.6	6.8	12.6#

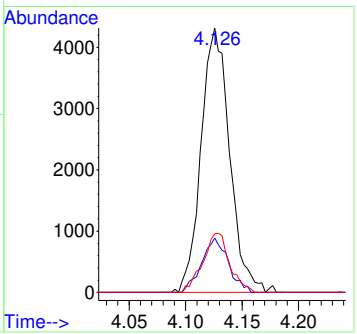


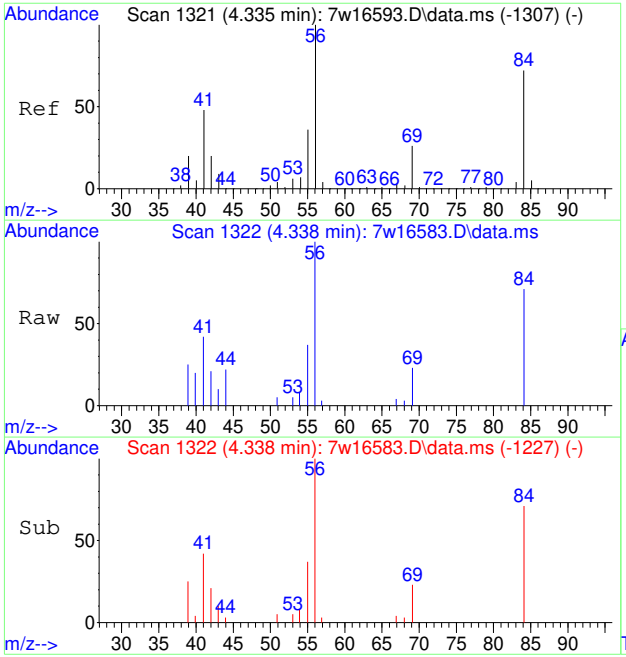


#51
BENZENE
Concen: 0.19 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 78 Resp: 7569

Ion	Ratio	Lower	Upper
78	100		
52	19.2	0.0	44.6
51	20.8	0.0	47.3

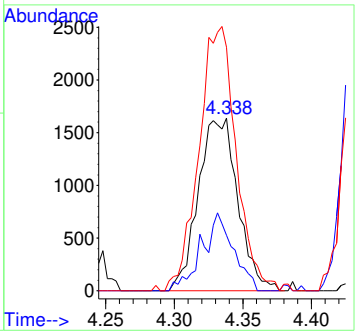


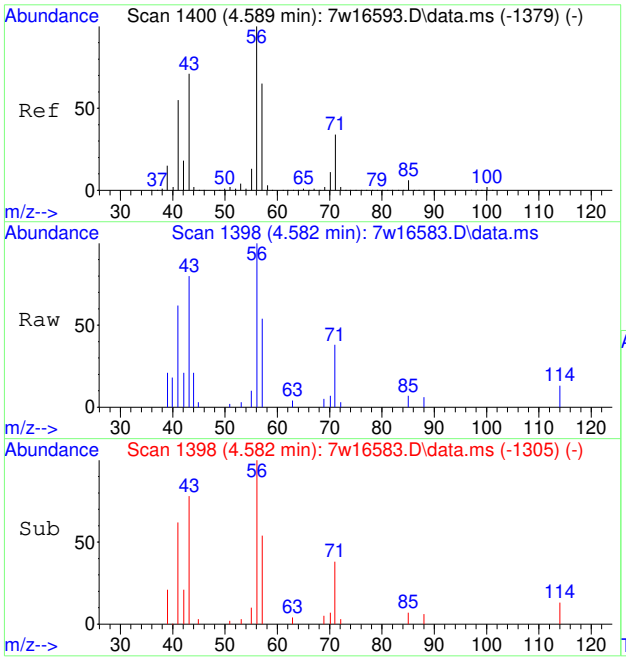


#53
CYCLOHEXANE
Concen: 0.18 PPBV
RT: 4.338 min Scan# 1322
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 3276

Ion	Ratio	Lower	Upper
84	100		
69	36.2	22.3	41.5
56	145.6	70.2	130.4#

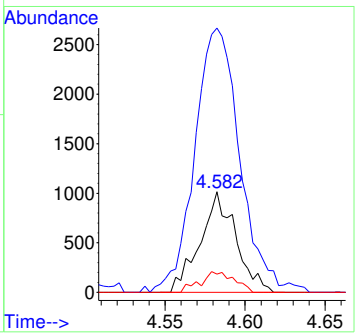


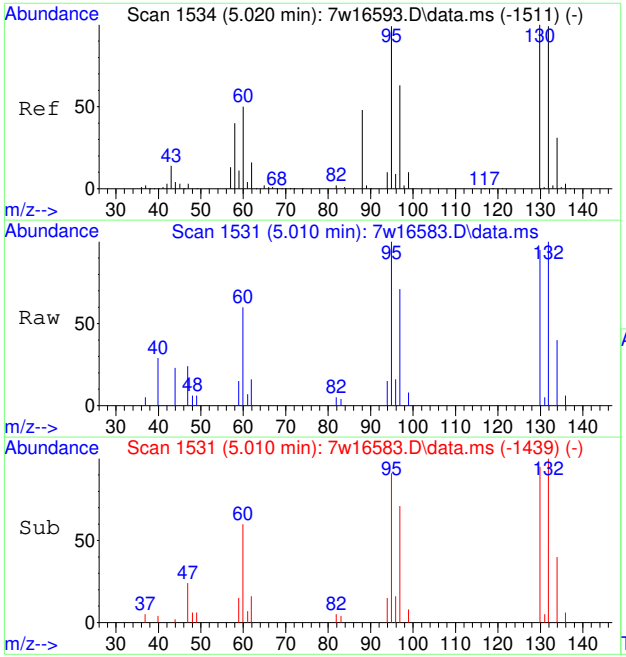


#54
2,3-DIMETHYLPENTANE
Concen: 0.17 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 71 Resp: 1571

Ion	Ratio	Lower	Upper
71	100		
56	333.0	171.4	318.4#
85	19.6	12.6	23.4

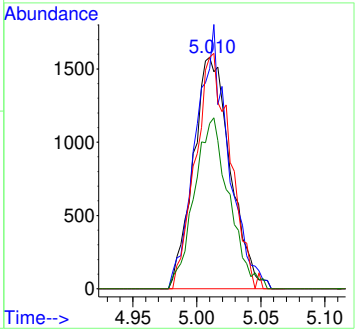


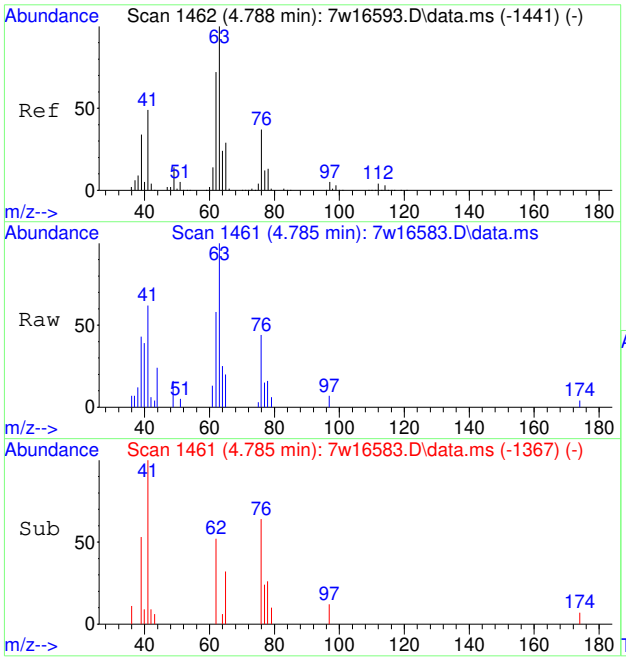


#55
TRICHLOROETHENE
Concen: 0.17 PPBV
RT: 5.010 min Scan# 1531
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 95 Resp: 3186

Ion	Ratio	Lower	Upper
95	100		
130	100.2	85.9	159.5
132	95.3	79.4	147.4
97	69.5	45.0	83.6

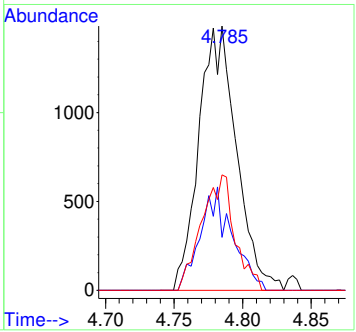


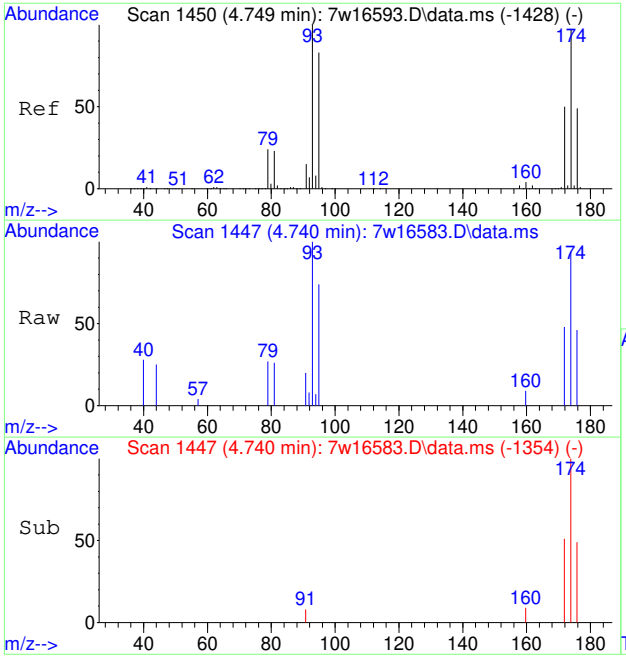


#56
1,2-DICHLOROPROPANE
Concen: 0.17 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 2832

Ion	Ratio	Lower	Upper
63	100		
65	33.3	22.6	42.0
76	38.5	31.8	59.0

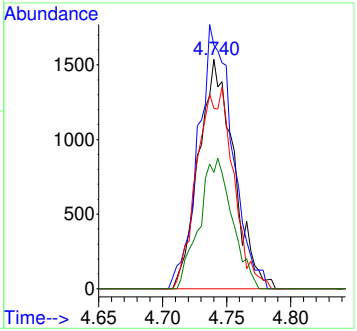


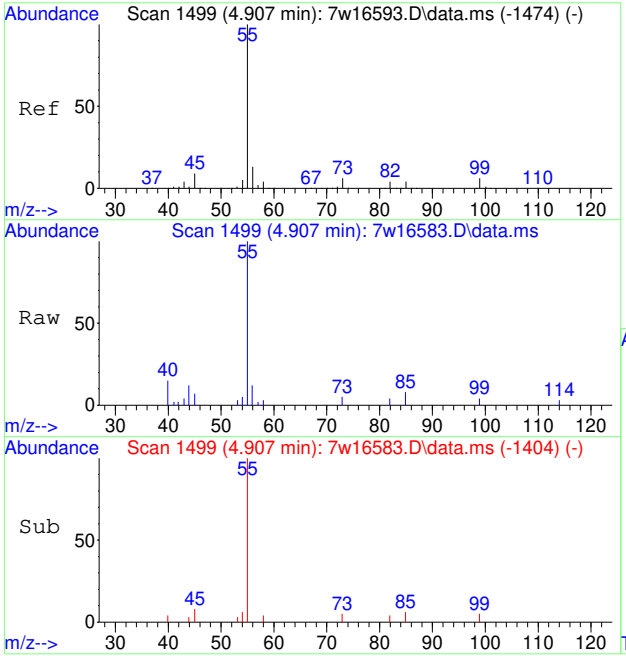


#57
DIBROMOMETHANE
Concen: 0.19 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:174 Resp: 2923

Ion	Ratio	Lower	Upper
174	100		
93	112.0	67.3	125.1
95	91.2	56.8	105.6
172	53.5	36.3	67.5

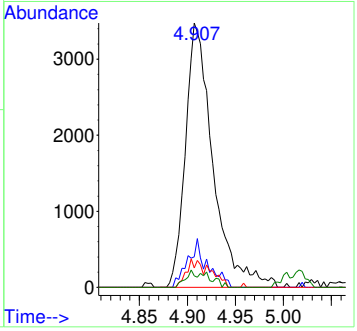


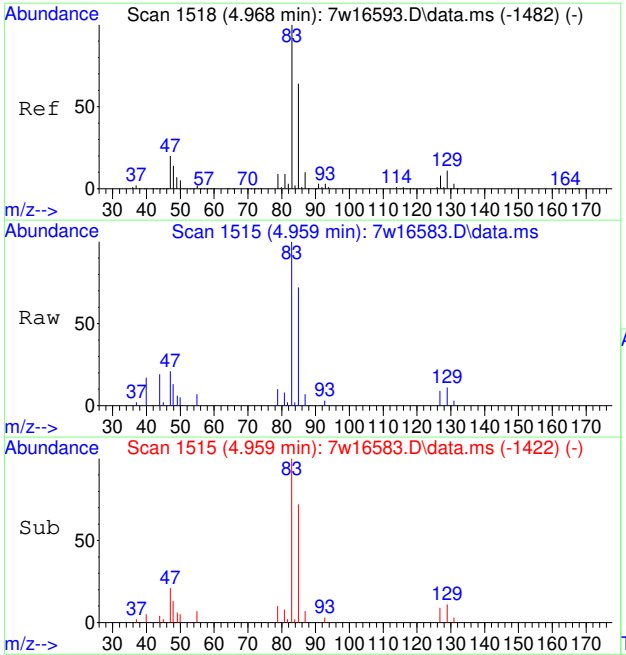


#58
ETHYL ACRYLATE
Concen: 0.18 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 6937

Ion	Ratio	Lower	Upper
55	100		
56	13.2	7.9	14.7
45	9.0	6.6	12.2
99	5.3	6.2	11.6#

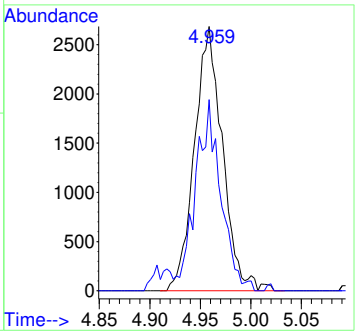


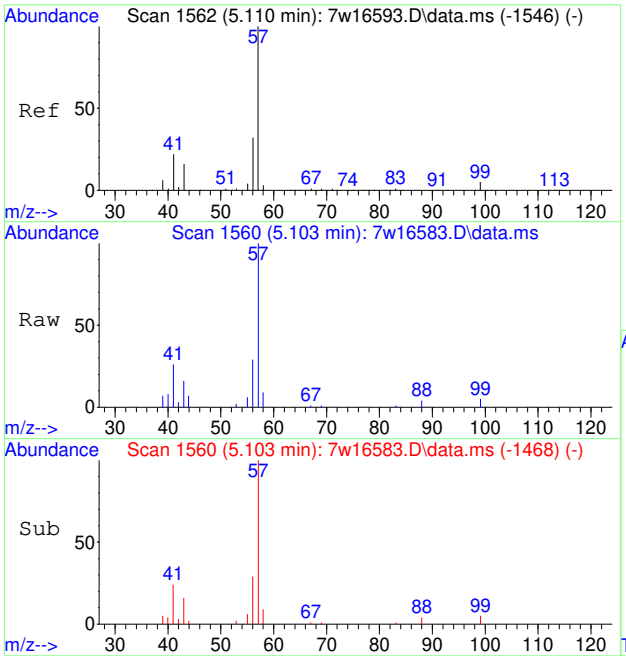


#59
BROMODICHLOROMETHANE
Concen: 0.16 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5187

Ion	Ratio	Lower	Upper
83	100		
85	70.2	44.9	83.5

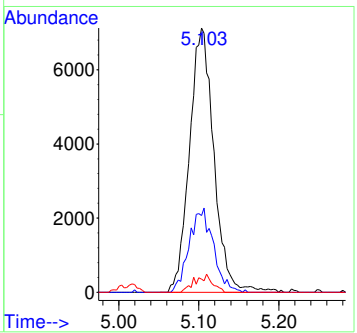


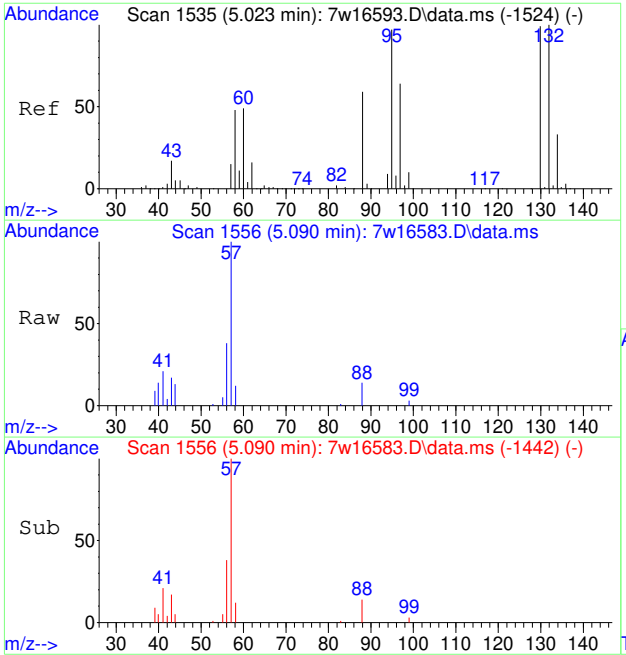


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 15119

Ion	Ratio	Lower	Upper
57	100		
56	31.5	24.4	45.2
99	4.9	5.2	9.6#

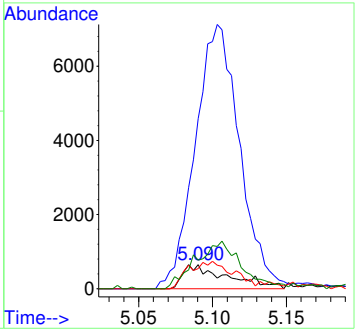


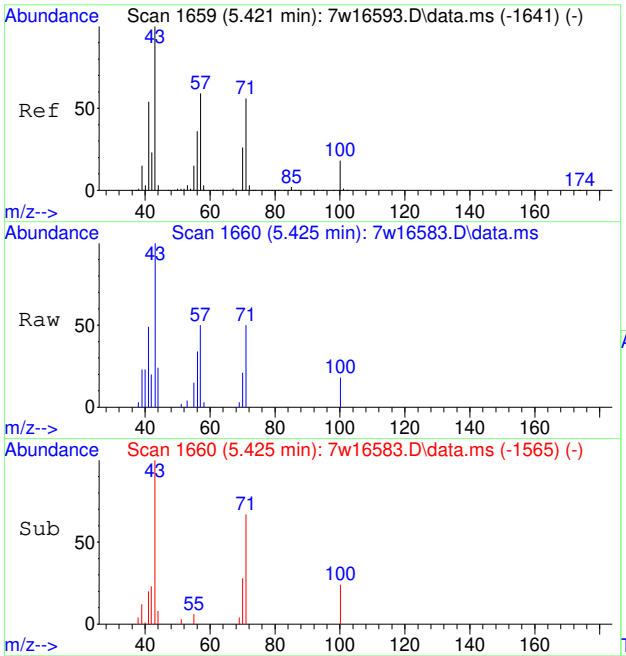


#61
1,4-DIOXANE
Concen: 0.15 PPBV
RT: 5.090 min Scan# 1556
Delta R.T. 0.068 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 88 Resp: 1375

Ion	Ratio	Lower	Upper
88	100		
57	1099.6	13.1	24.3#
58	117.7	39.1	72.5#
43	219.3	18.3	33.9#

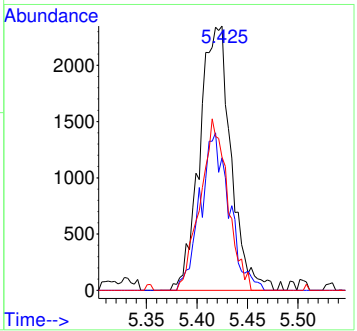


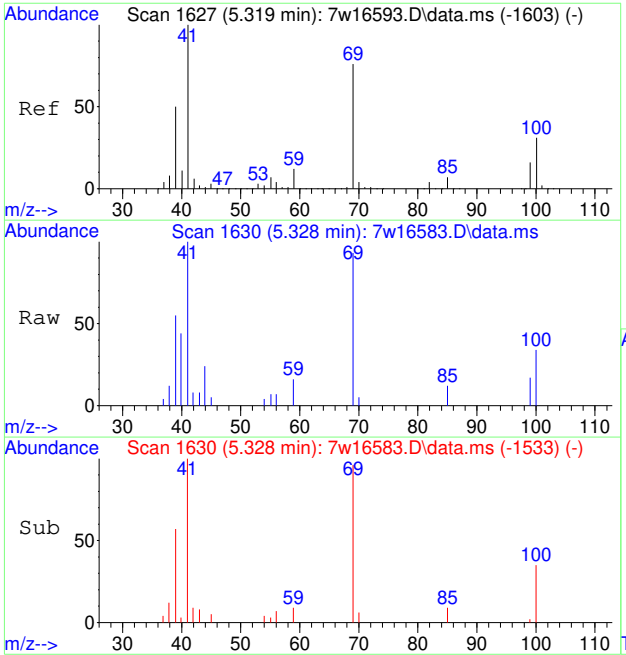


#62
HEPTANE
Concen: 0.19 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 5077

Ion	Ratio	Lower	Upper
43	100		
71	55.1	45.0	83.6
57	56.5	37.2	69.0

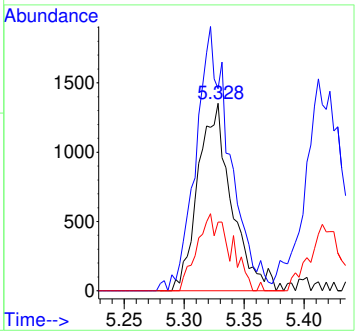


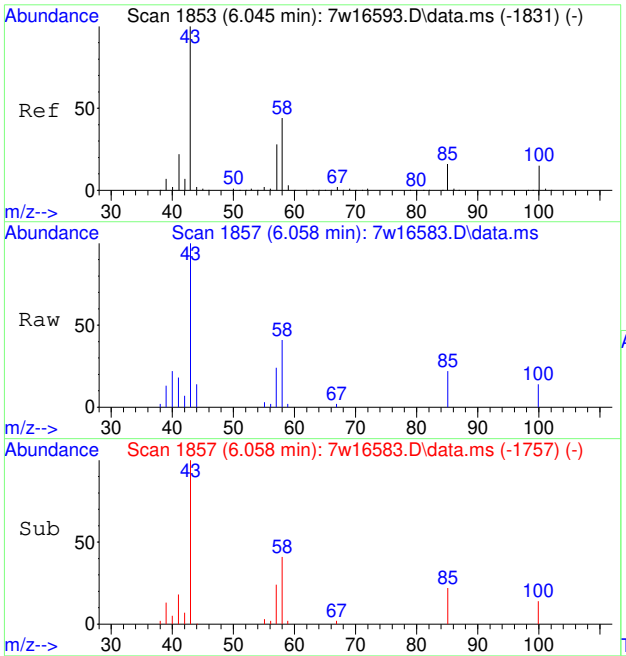


#63
METHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 5.328 min Scan# 1630
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 2638

Ion	Ratio	Lower	Upper
69	100		
41	142.4	84.3	156.5
100	41.0	30.8	57.2

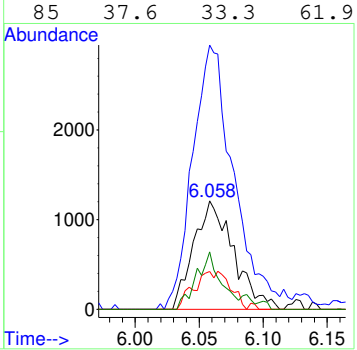


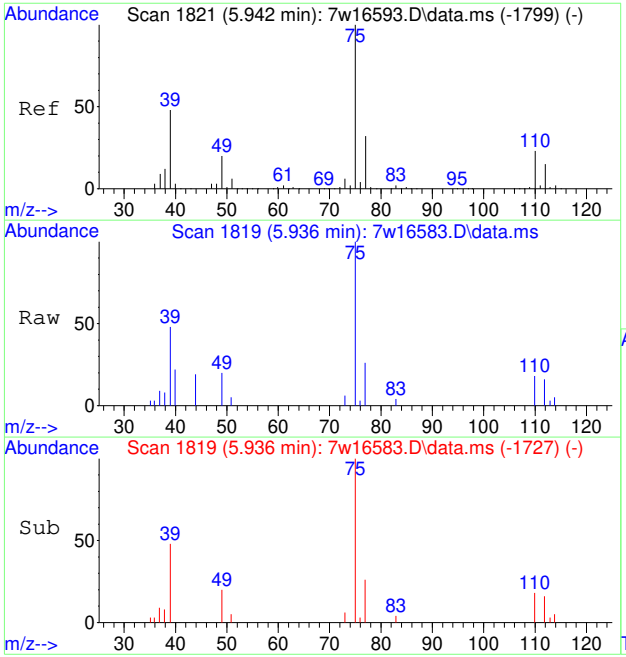


#64
METHYL ISOBUTYL KETONE
Concen: 0.17 PPBV
RT: 6.058 min Scan# 1857
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 2634

Ion	Ratio	Lower	Upper
58	100		
43	259.0	193.8	360.0
100	32.5	32.8	60.8#
85	37.6	33.3	61.9

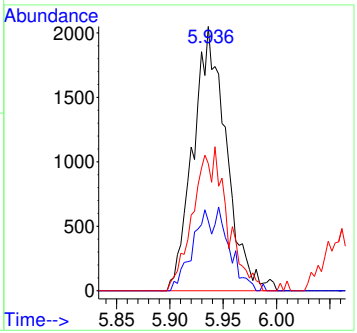


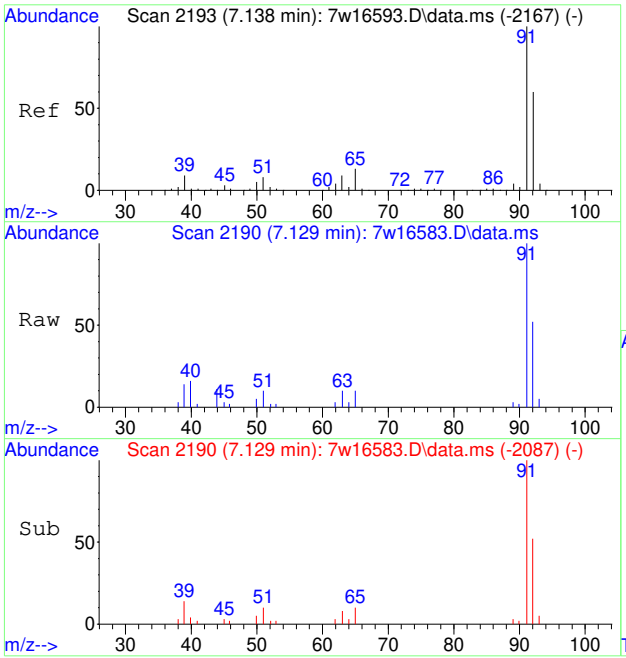


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.17 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 4430

Ion	Ratio	Lower	Upper
75	100		
77	32.6	22.0	40.8
39	55.6	38.5	71.5

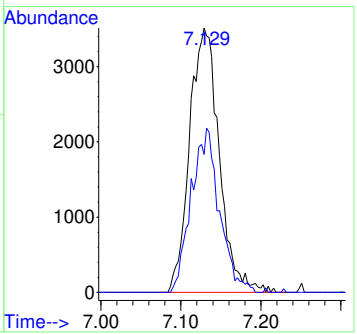


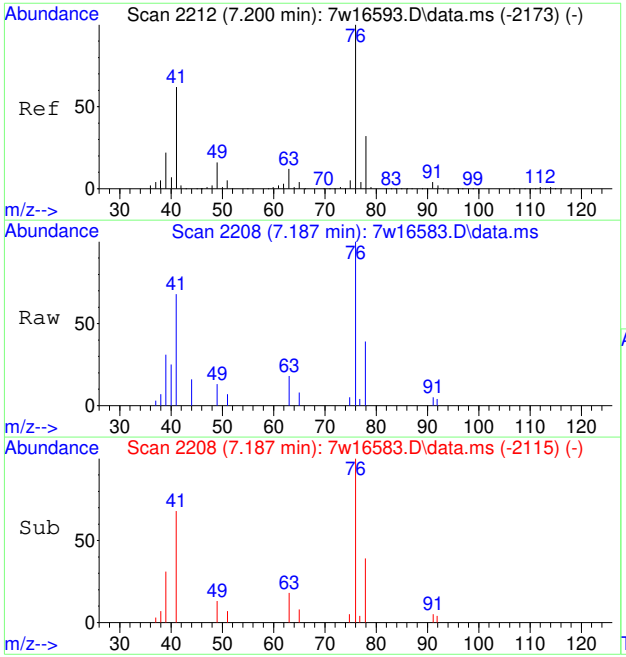


#66
TOLUENE
Concen: 0.19 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9065

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

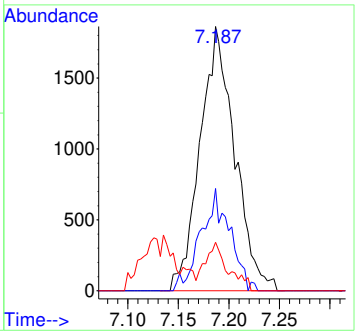


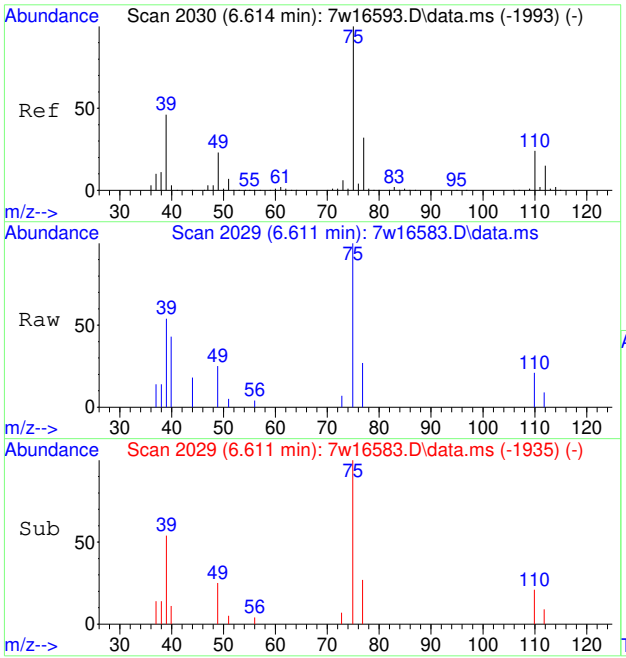


#67
1,3-DICHLOROPROPANE
Concen: 0.18 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 4438

Ion	Ratio	Lower	Upper
76	100		
78	32.2	22.1	41.1
63	12.5	8.0	14.8

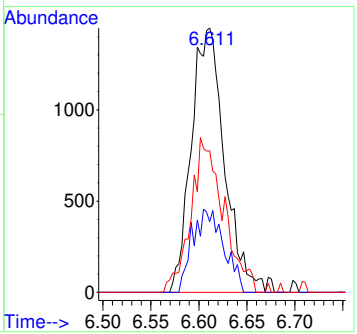


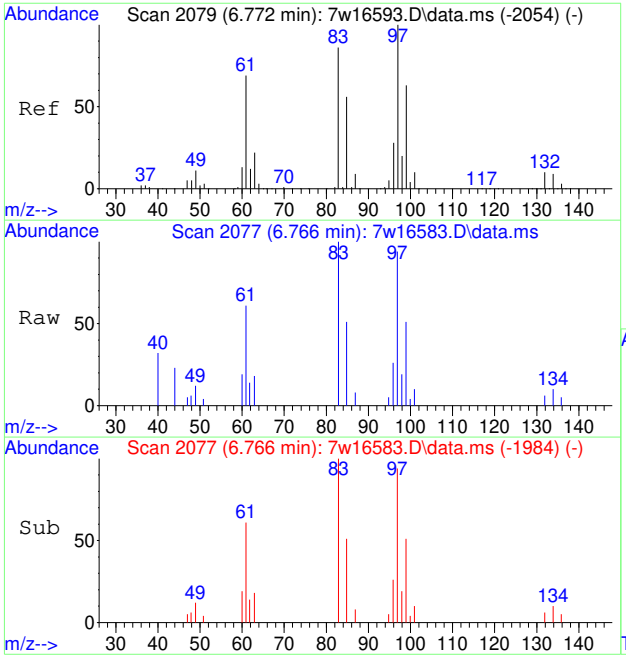


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.14 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 3506

Ion	Ratio	Lower	Upper
75	100		
77	29.5	22.5	41.7
39	57.2	37.2	69.0

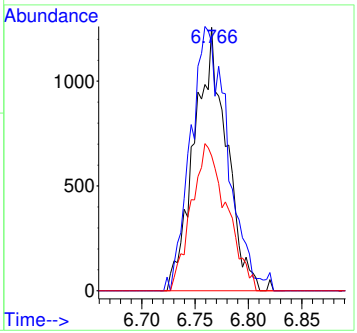


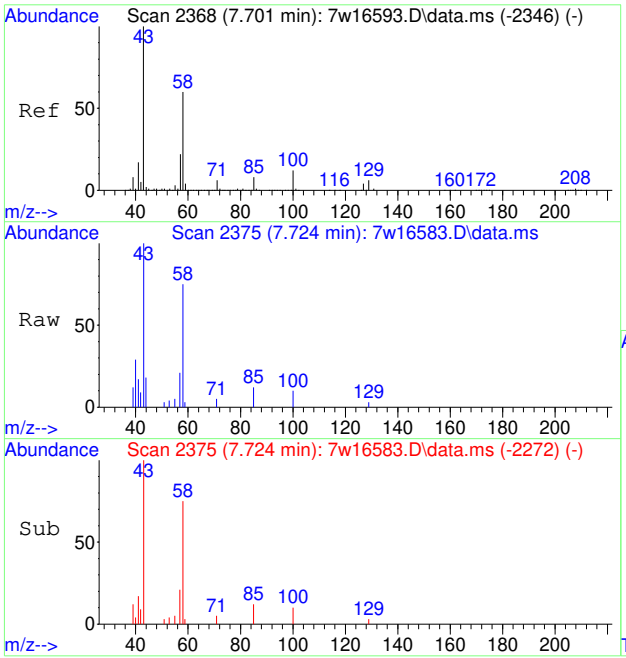


#69
1,1,2-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
97	116.1	86.7	160.9
85	61.6	45.5	84.5

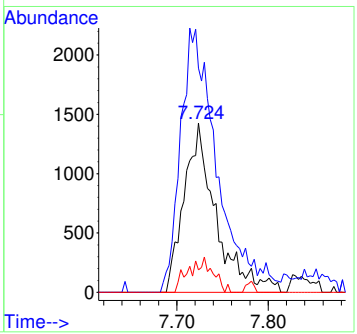


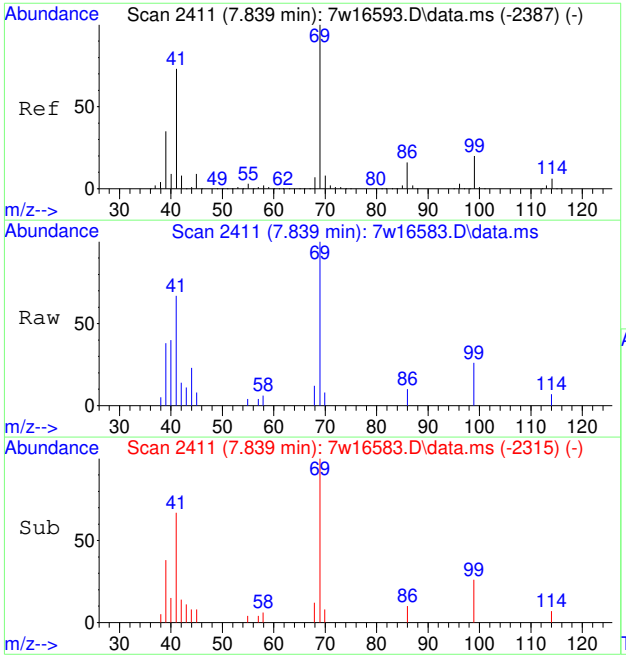


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.724 min Scan# 2375
Delta R.T. 0.032 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 3463

Ion	Ratio	Lower	Upper
58	100		
43	179.8	141.7	263.3
100	15.7	18.9	35.1#

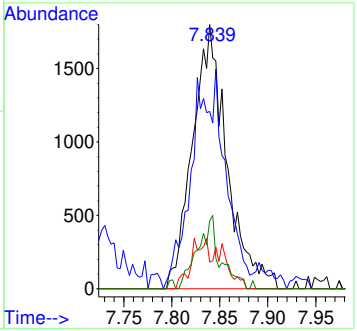


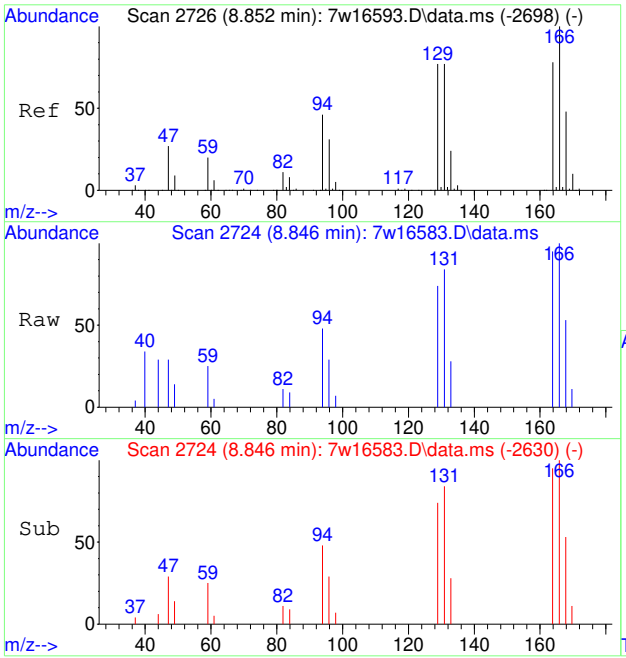


#71
ETHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 4472

Ion	Ratio	Lower	Upper
69	100		
41	82.5	49.3	91.6
86	7.3	11.6	21.6#
99	18.8	13.4	24.8

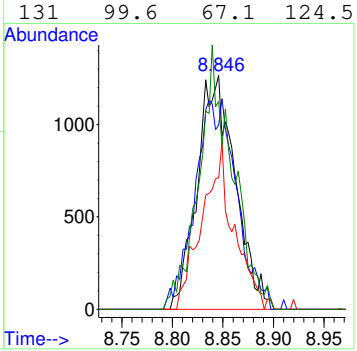


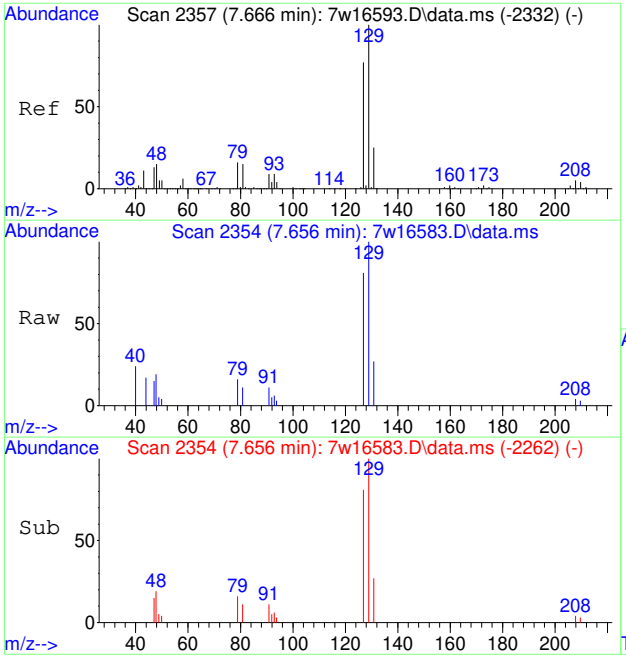


#72
TETRACHLOROETHENE
Concen: 0.19 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:164 Resp: 3315

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.7	129.5
168	59.1	43.4	80.6
131	99.6	67.1	124.5

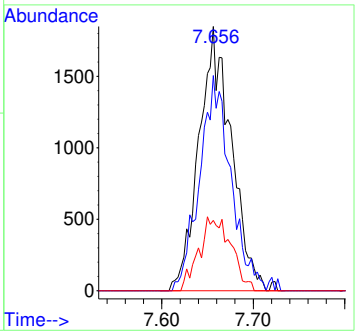


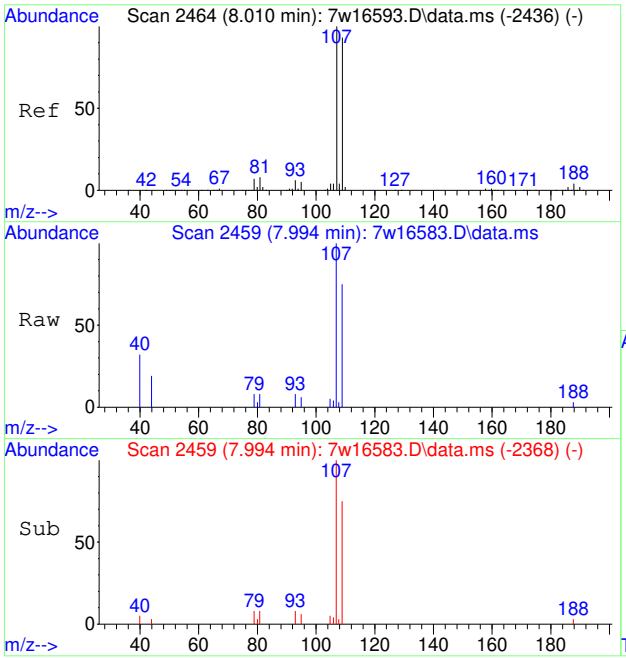


#73
DIBROMOCHLOROMETHANE
Concen: 0.15 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:129 Resp: 4563

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	27.4	16.9	31.3

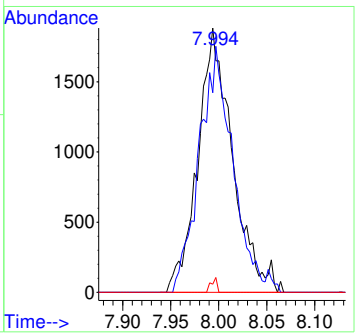


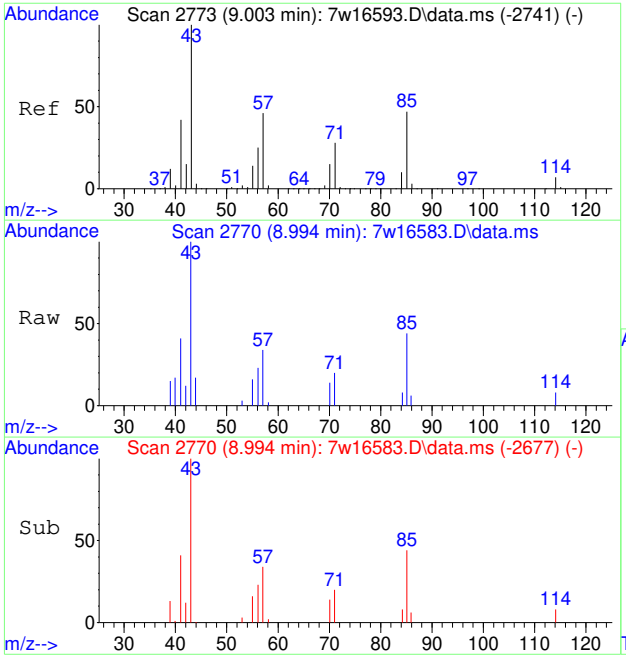


#74
1,2-DIBROMOETHANE
Concen: 0.19 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:107 Resp: 4734

Ion	Ratio	Lower	Upper
107	100		
109	91.0	65.7	122.1
188	0.0	2.4	4.4#

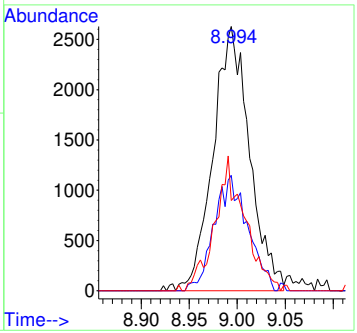


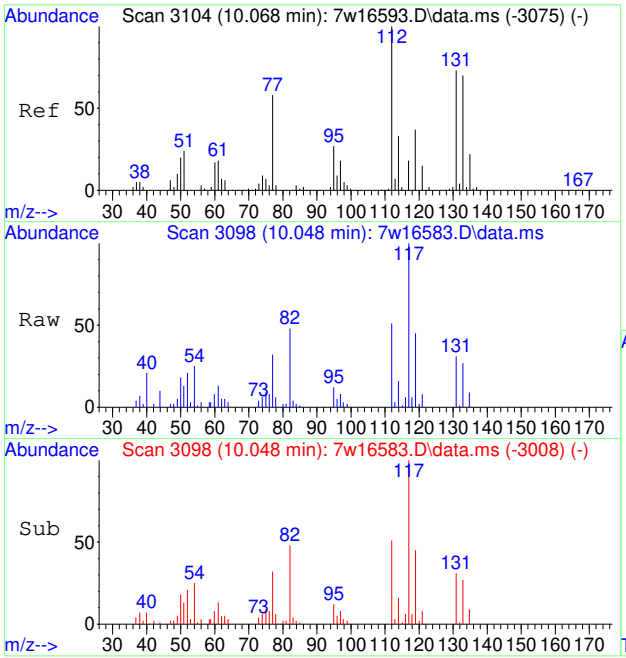


#75
OCTANE
Concen: 0.19 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 6956

Ion	Ratio	Lower	Upper
43	100		
85	40.7	36.5	67.9
57	41.8	27.6	51.2

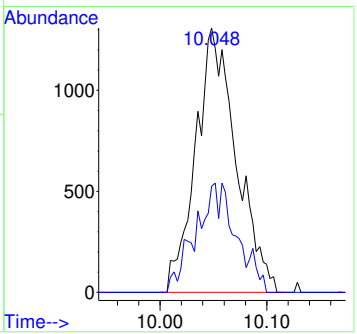


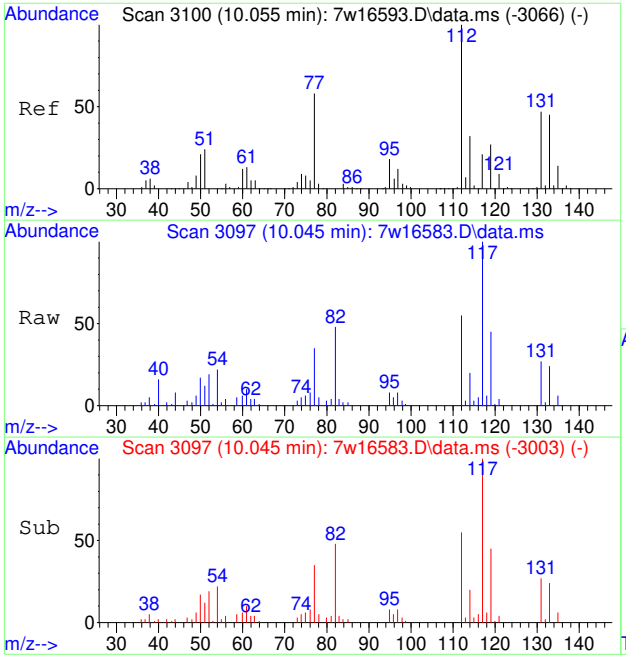


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.16 PPBV
RT: 10.048 min Scan# 3098
Delta R.T. -0.009 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:131 Resp: 3463

Ion	Ratio	Lower	Upper
131	100		
95	41.4	23.7	43.9

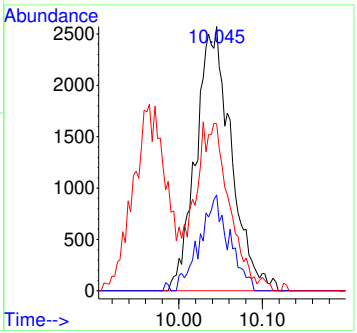


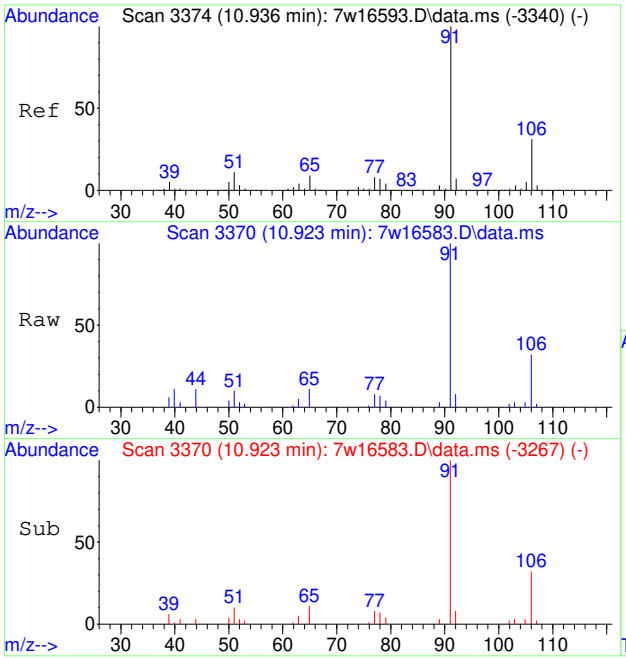


#78
CHLOROBENZENE
Concen: 0.19 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:112 Resp: 7506

Ion	Ratio	Lower	Upper
112	100		
114	30.5	22.9	42.5
77	62.6	34.4	63.8

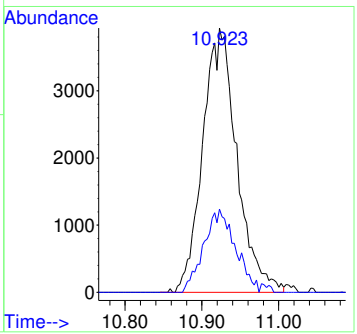


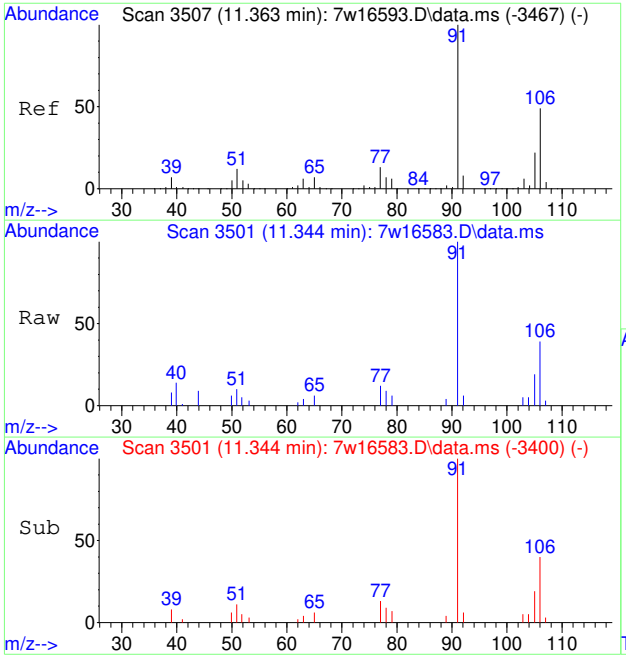


#79
ETHYLBENZENE
Concen: 0.19 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 12148

Ion	Ratio	Lower	Upper
91	100		
106	29.0	2.8	62.8

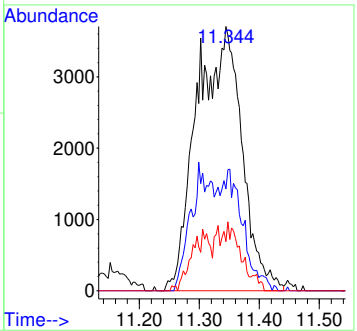


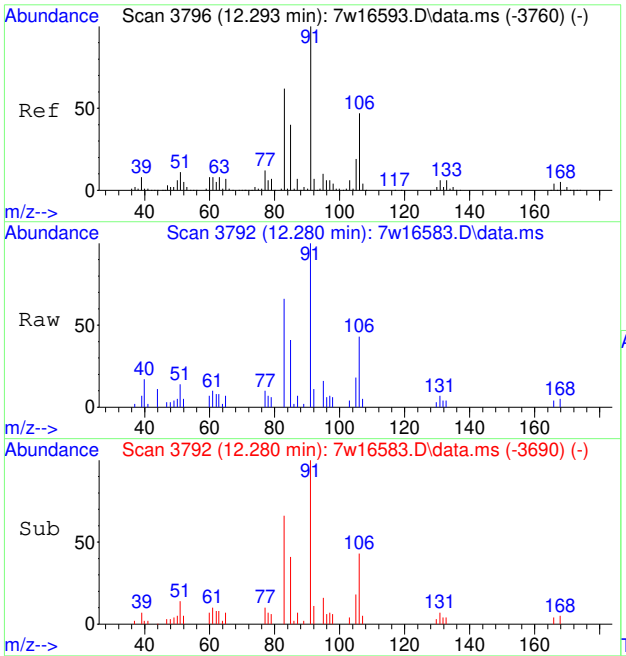


#80
M,P-XYLENE
Concen: 0.37 PPBV
RT: 11.344 min Scan# 3501
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 19306

Ion	Ratio	Lower	Upper
91	100		
106	19.5	0.0	58.7
105	14.1	0.0	43.2

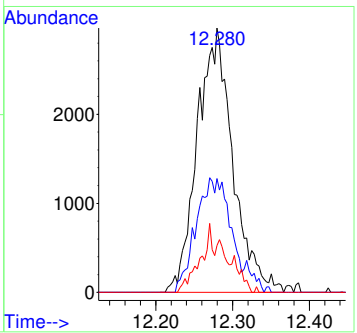


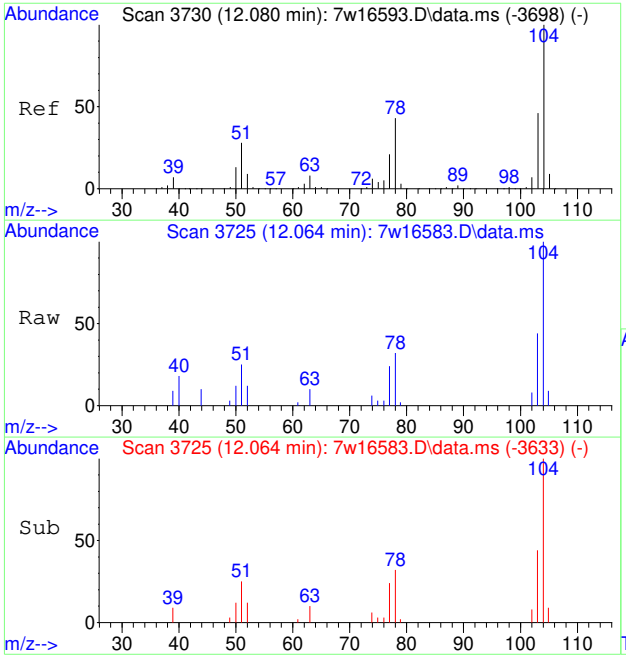


#81
O-XYLENE
Concen: 0.19 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9544

Ion	Ratio	Lower	Upper
91	100		
106	43.0	34.1	63.3
105	17.7	14.6	27.2

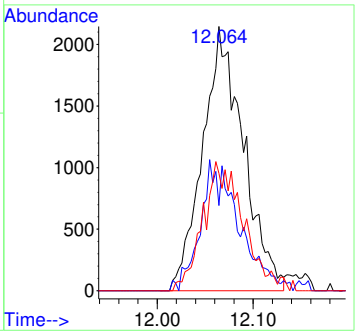


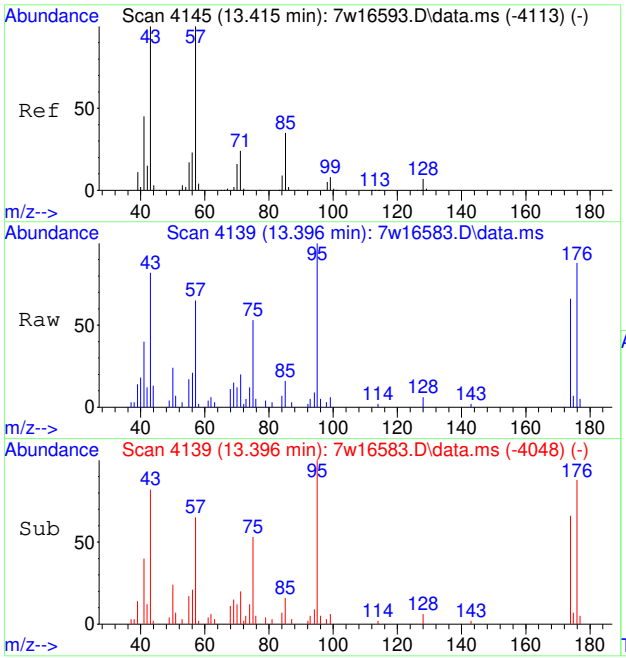


#82
STYRENE
Concen: 0.16 PPBV
RT: 12.064 min Scan# 3725
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:104 Resp: 6329

Ion	Ratio	Lower	Upper
104	100		
78	47.9	25.3	46.9#
103	48.8	33.2	61.7

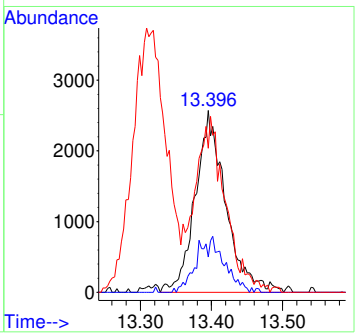


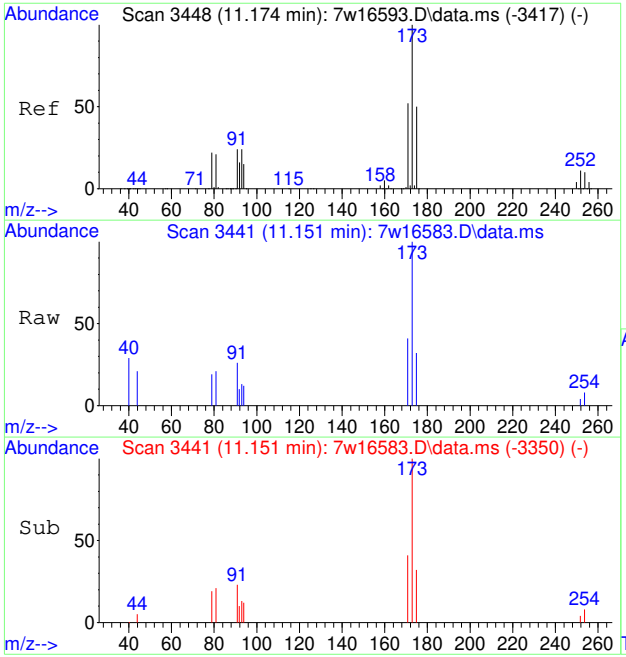


#83
NONANE
Concen: 0.20 PPBV
RT: 13.396 min Scan# 4139
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 7642

Ion	Ratio	Lower	Upper
43	100		
85	28.4	27.6	51.2
57	91.2	56.4	104.7

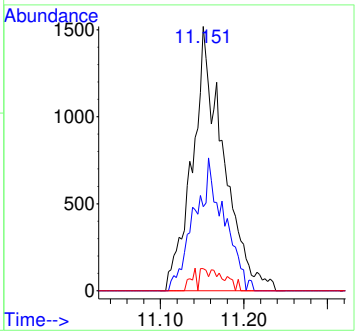


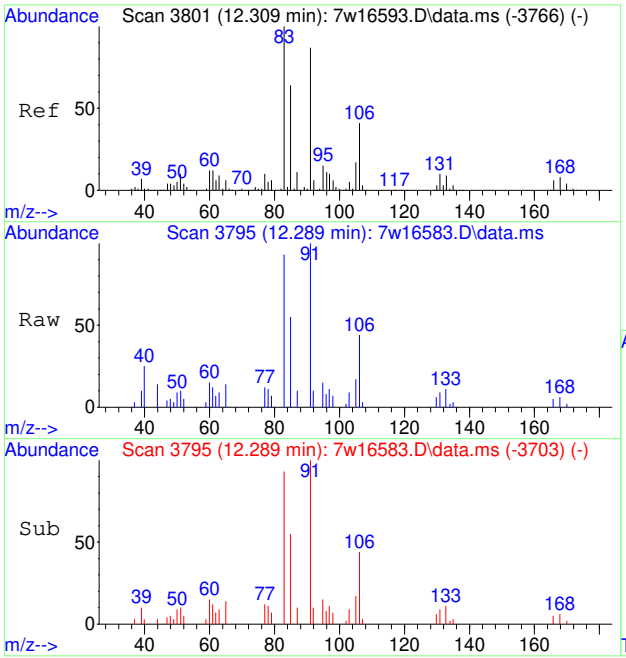


#84
BROMOFORM
Concen: 0.15 PPBV
RT: 11.151 min Scan# 3441
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:173 Resp: 3912

Ion	Ratio	Lower	Upper
173	100		
175	48.4	33.0	61.4
254	7.9	5.9	10.9

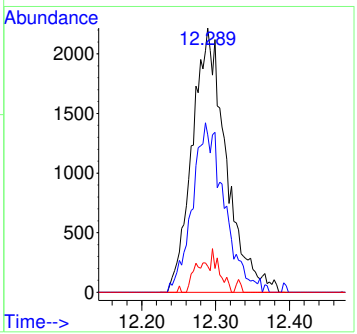


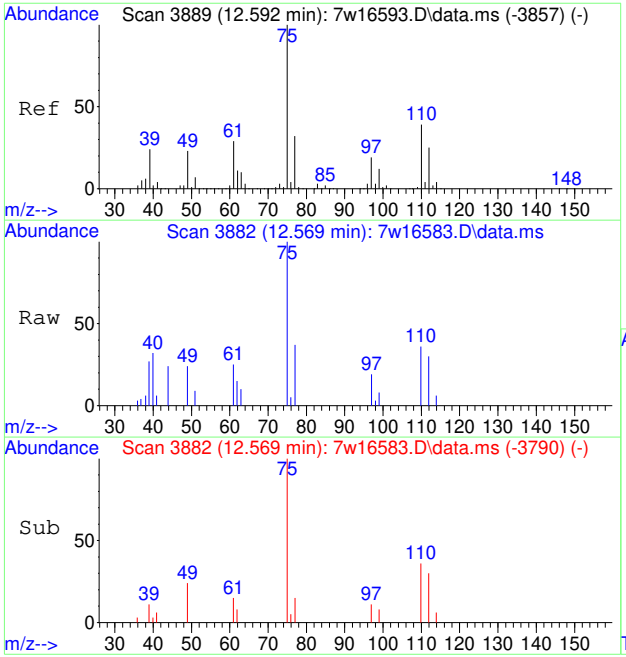


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.19 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 7071

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	9.9	8.0	14.8

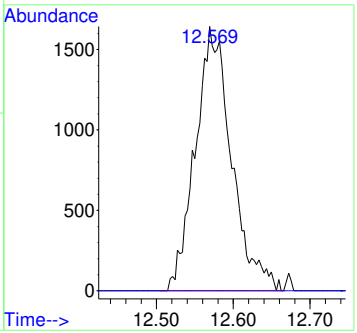


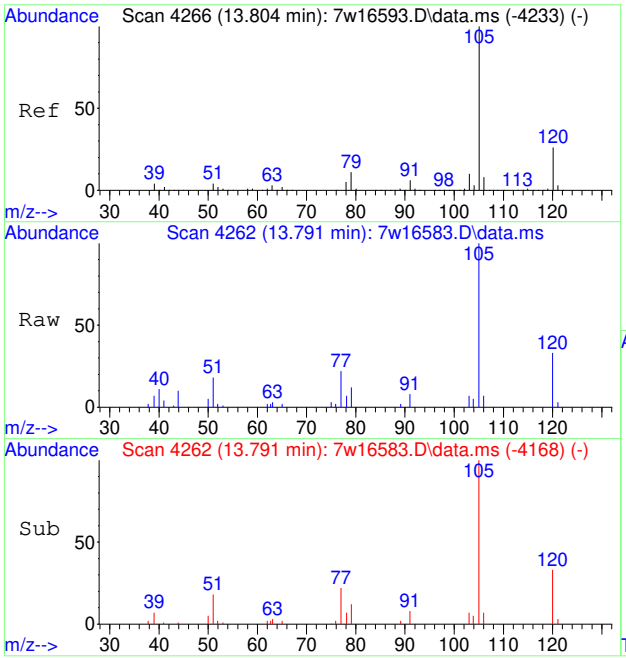


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.19 PPBV
RT: 12.569 min Scan# 3882
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 5376

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

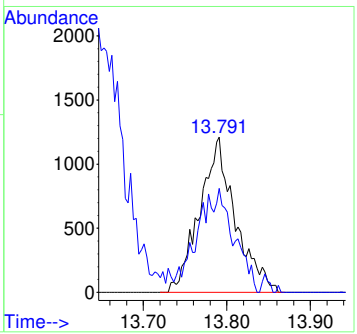


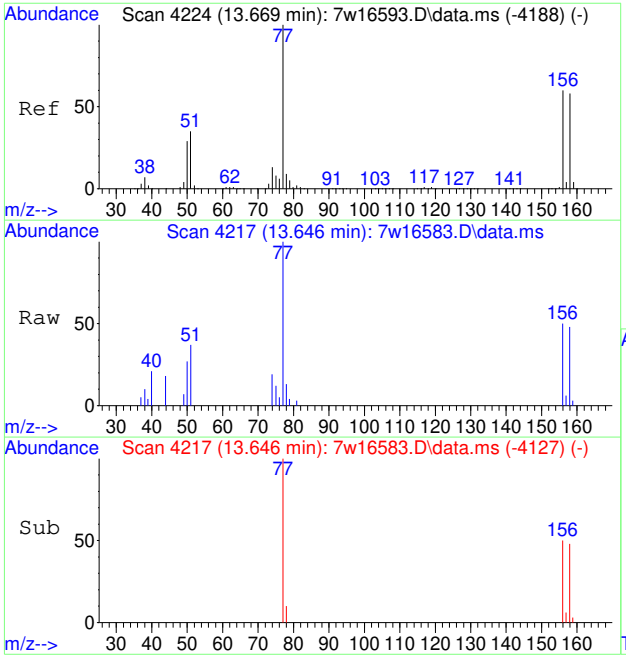


#88
ISOPROPYLBENZENE
Concen: 0.19 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3578

Ion	Ratio	Lower	Upper
120	100		
77	73.3	36.0	67.0#

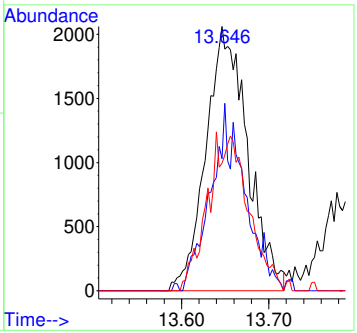


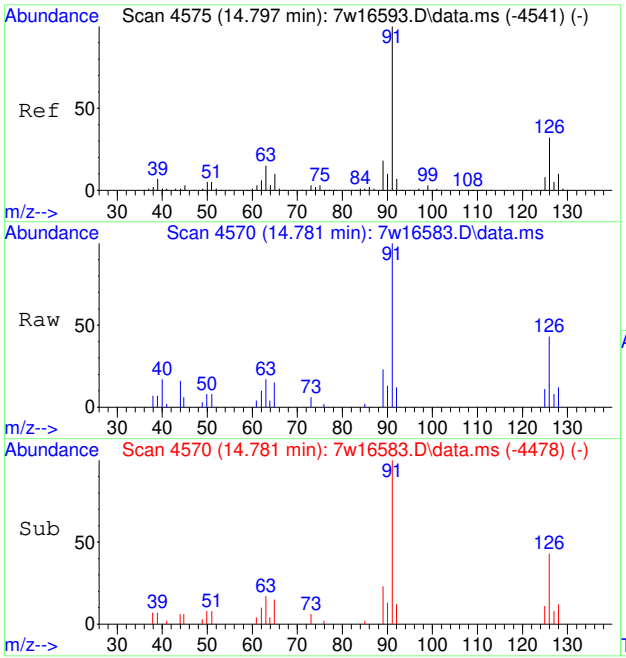


#89
BROMOBENZENE
Concen: 0.19 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 77 Resp: 6796

Ion	Ratio	Lower	Upper
77	100		
156	59.2	57.9	107.5
158	58.4	55.7	103.5

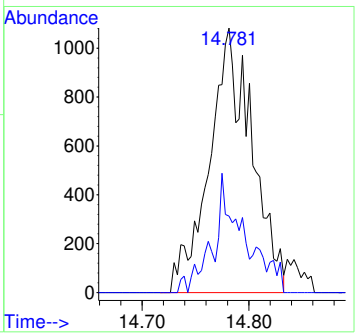


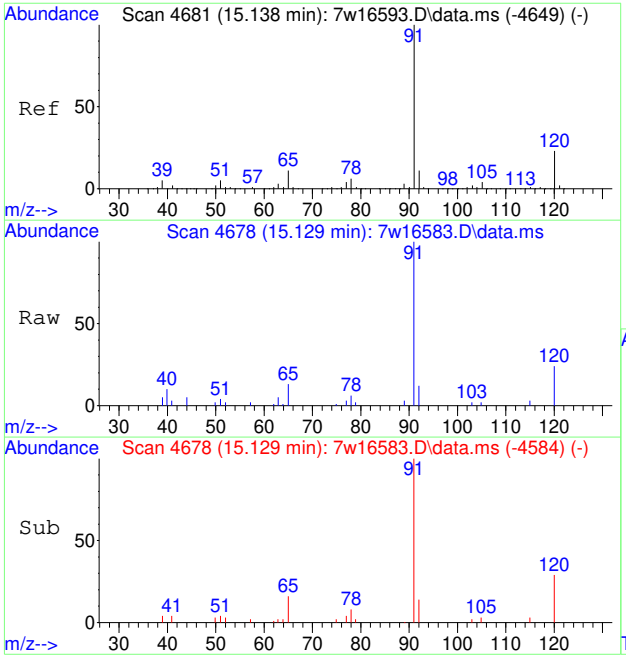


#90
2-CHLOROTOLUENE
Concen: 0.16 PPBV
RT: 14.781 min Scan# 4570
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:126 Resp: 2989

Ion	Ratio	Lower	Upper
126	100		
128	33.2	22.7	42.1

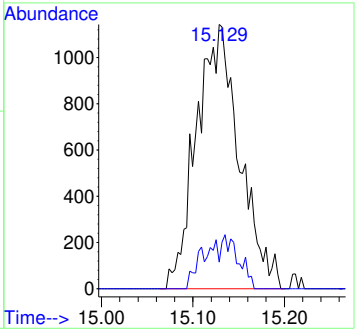


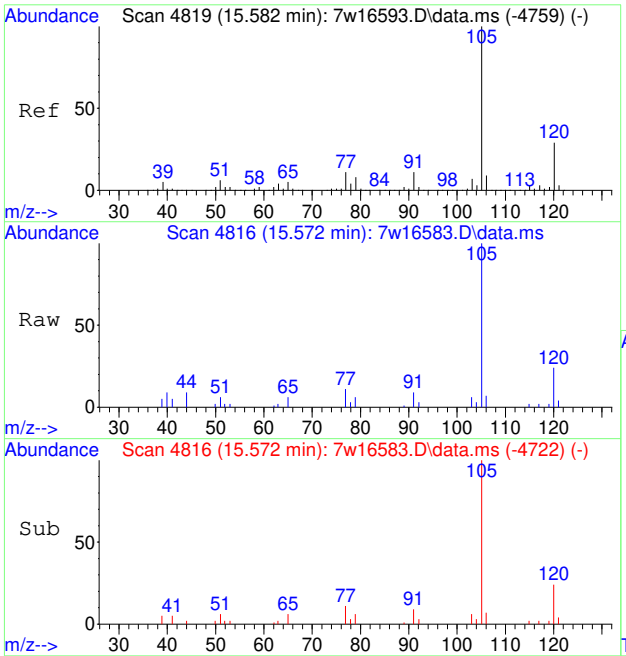


#91
N-PROPYLBENZENE
Concen: 0.18 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3735

Ion	Ratio	Lower	Upper
120	100		
105	15.7	10.6	19.6

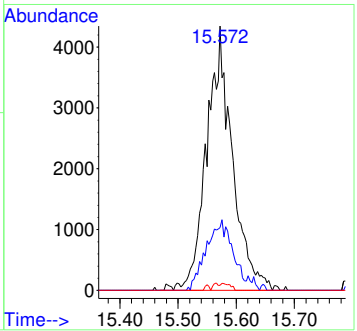


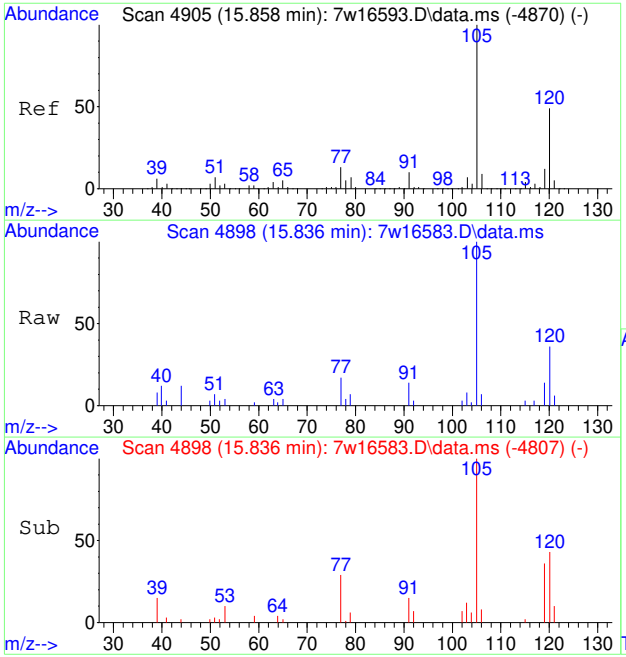


#92
4-ETHYLTOLUENE
Concen: 0.18 PPBV
RT: 15.572 min Scan# 4816
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 13365

Ion	Ratio	Lower	Upper
105	100		
120	28.9	21.8	40.4
119	1.9	1.7	3.1

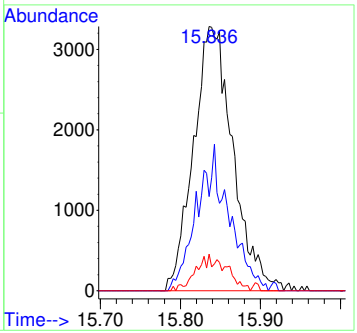


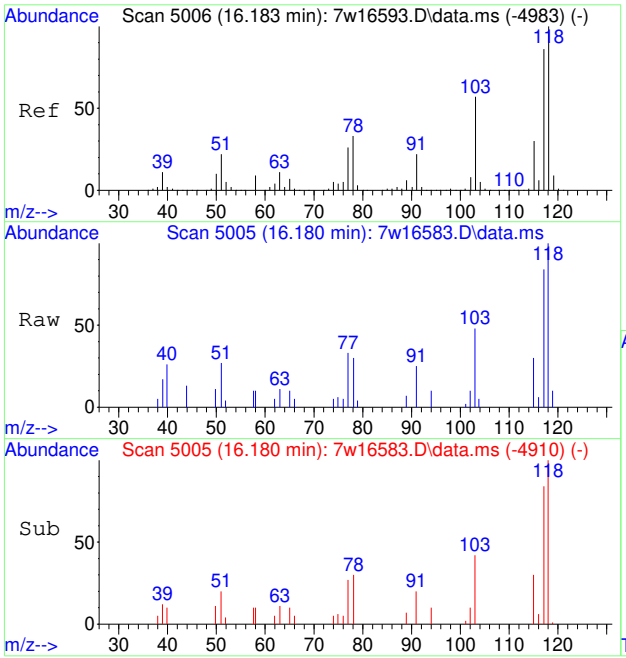


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 15.836 min Scan# 4898
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11247

Ion	Ratio	Lower	Upper
105	100		
120	45.0	37.2	69.2
91	6.7	7.5	13.9#

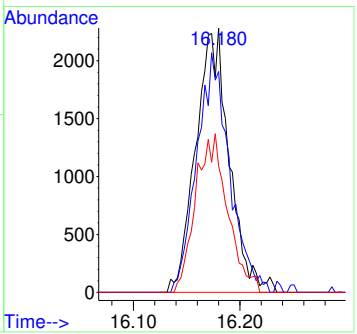


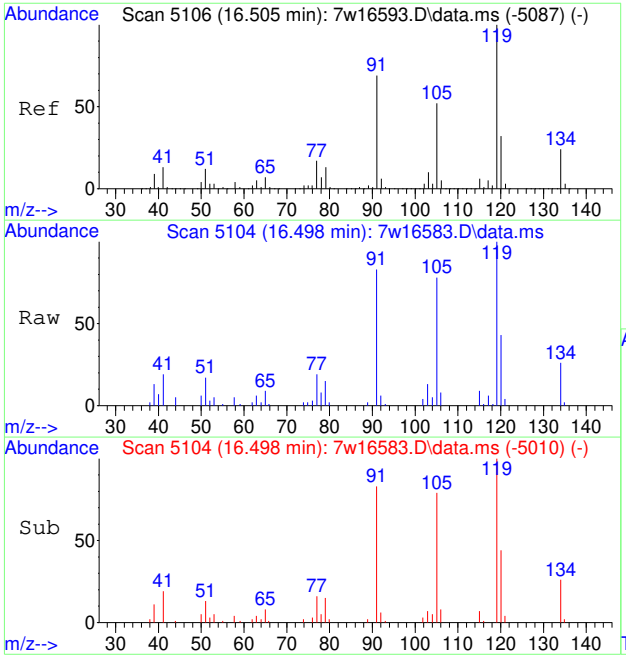


#94
ALPHA-METHYLSTYRENE
Concen: 0.15 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:118 Resp: 4973

Ion	Ratio	Lower	Upper
118	100		
117	88.5	59.9	111.3
103	57.2	36.2	67.2

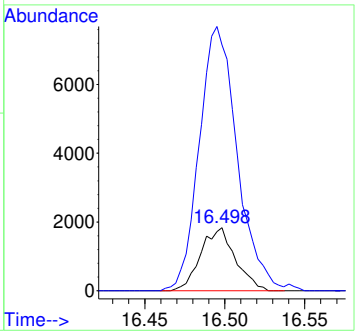


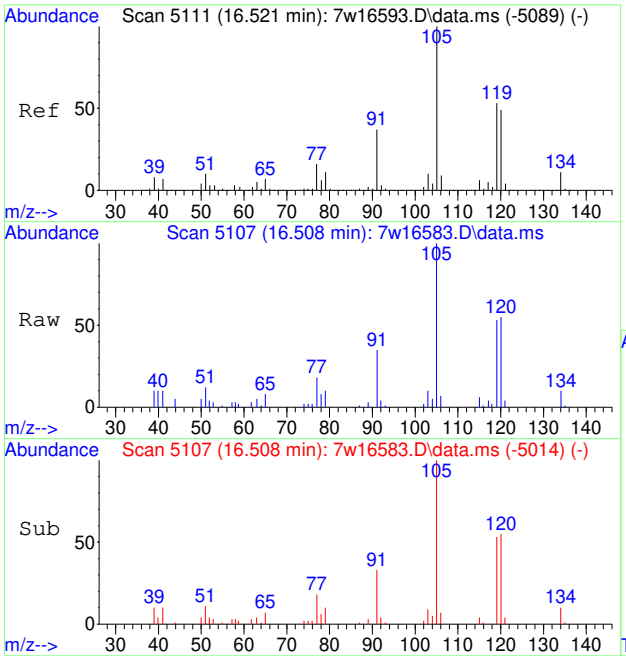


#95
TERT-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 2760

Ion	Ratio	Lower	Upper
134	100		
119	461.8	307.9	571.7

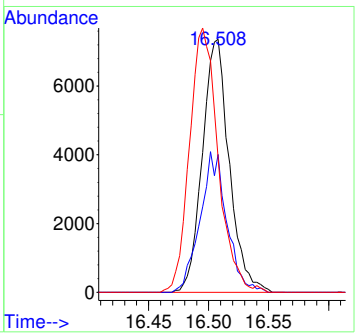


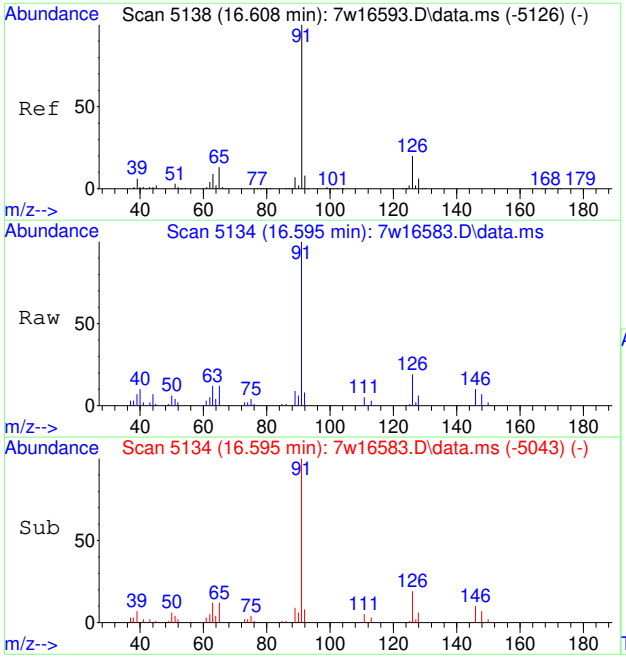


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11478

Ion	Ratio	Lower	Upper
105	100		
120	55.1	40.9	75.9
119	111.0	78.0	144.8

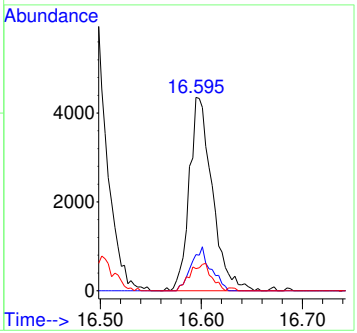


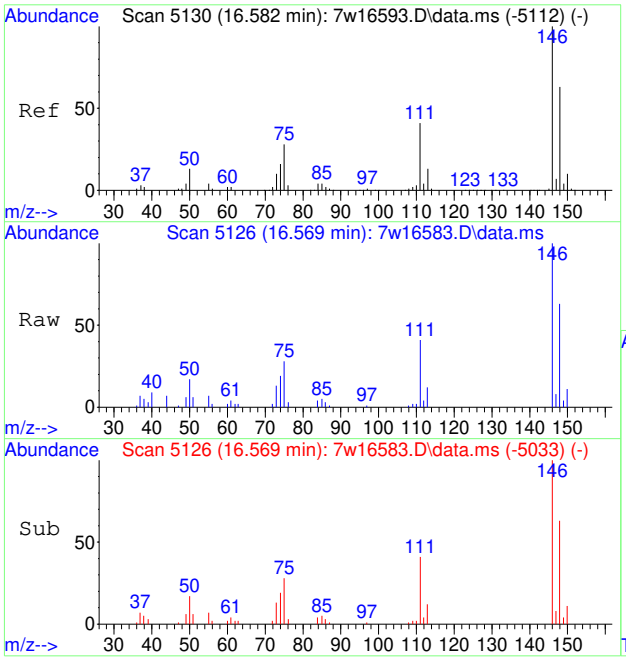


#97
BENZYL CHLORIDE
Concen: 0.13 PPBV
RT: 16.595 min Scan# 5134
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 6914

Ion	Ratio	Lower	Upper
91	100		
126	19.2	17.2	32.0
65	13.7	7.3	13.7#

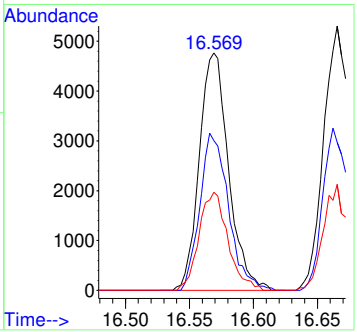


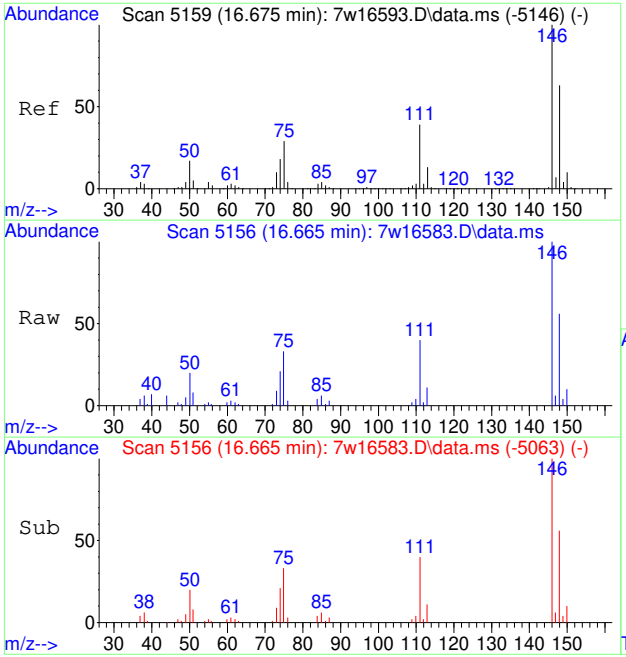


#98
M-DICHLOROBENZENE
Concen: 0.18 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7589

Ion	Ratio	Lower	Upper
146	100		
148	64.8	44.2	82.2
111	40.8	25.4	47.2

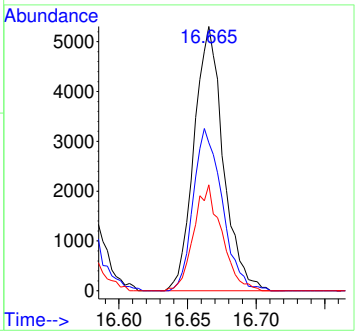


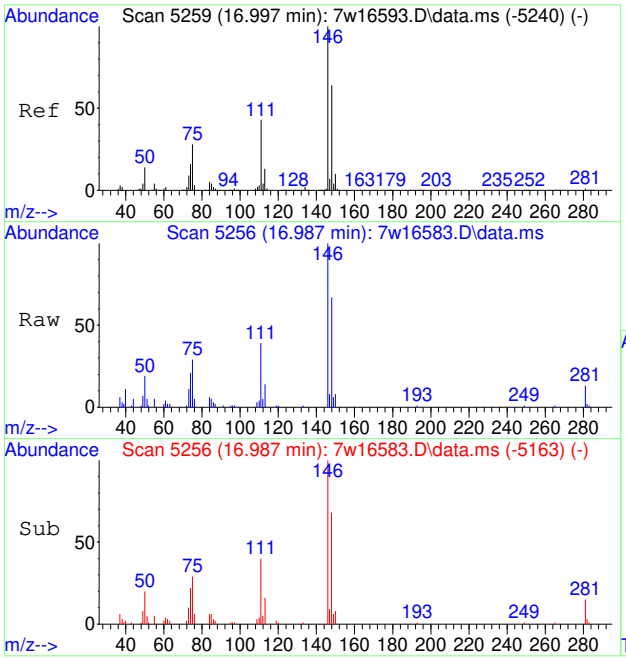


#99
P-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7856

Ion	Ratio	Lower	Upper
146	100		
148	61.0	44.7	82.9
111	38.6	24.8	46.1

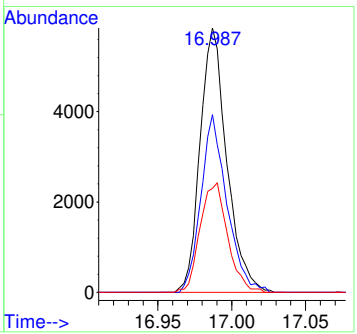


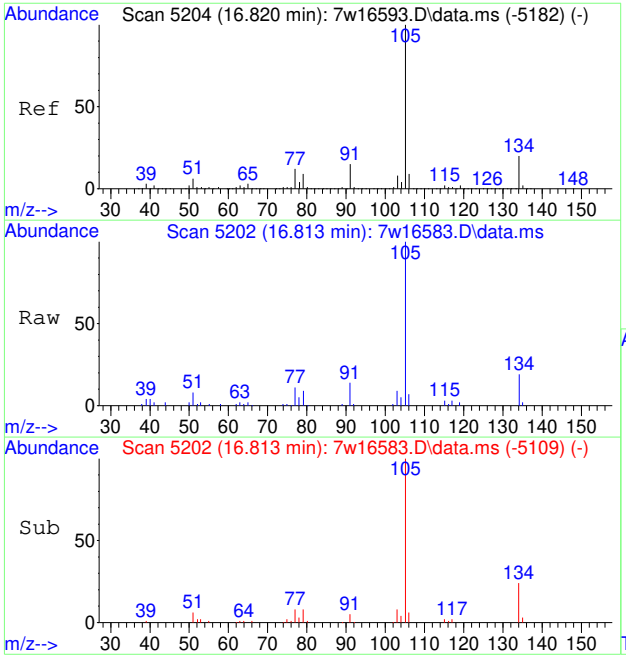


#100
O-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7325

Ion	Ratio	Lower	Upper
146	100		
148	65.4	44.6	82.8
111	42.7	26.9	50.1

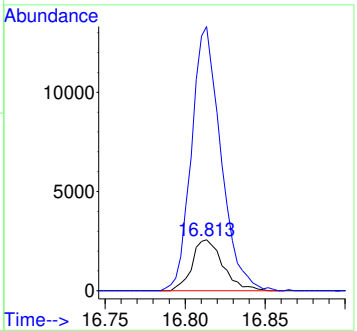


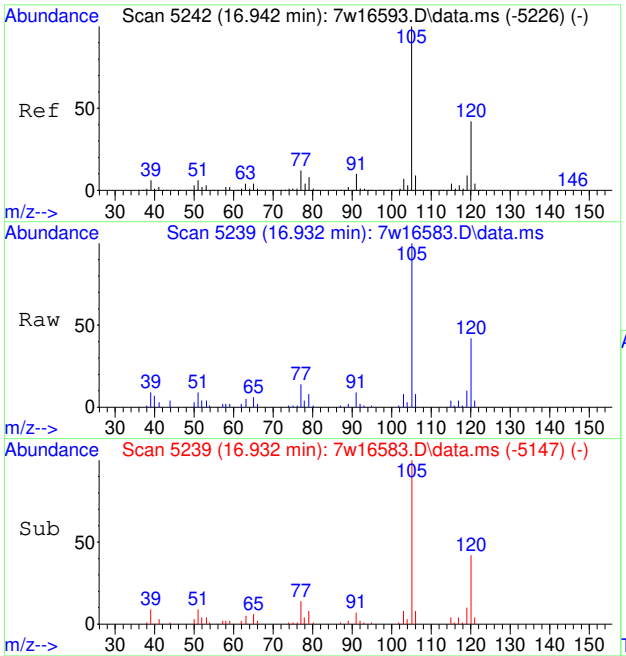


#101
SEC-BUTYLBENZENE
Concen: 0.19 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3439

Ion	Ratio	Lower	Upper
134	100		
105	494.3	314.4	584.0

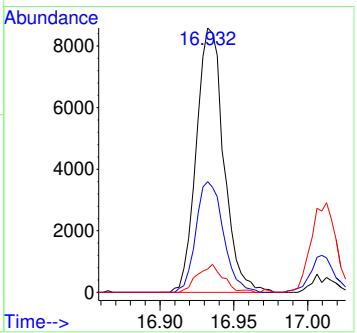


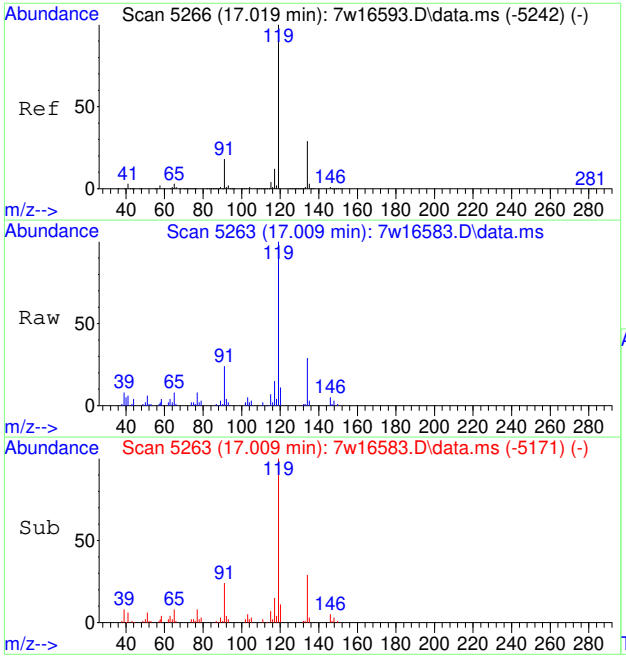


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11073

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

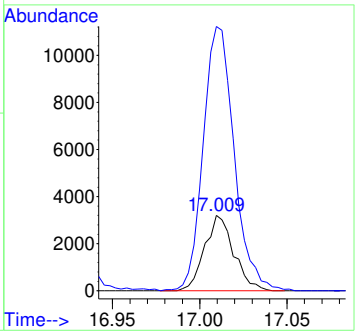


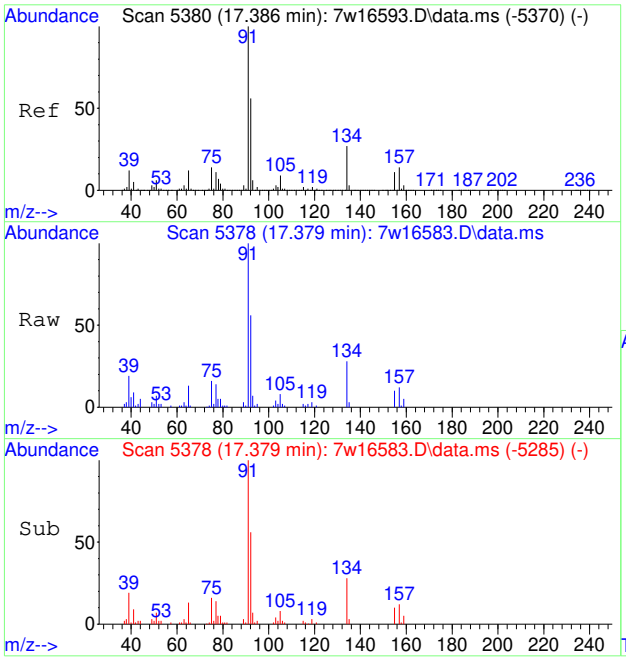


#103
P-ISOPROPYLTOLUENE
Concen: 0.18 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3722

Ion	Ratio	Lower	Upper
134	100		
119	372.9	253.7	471.3

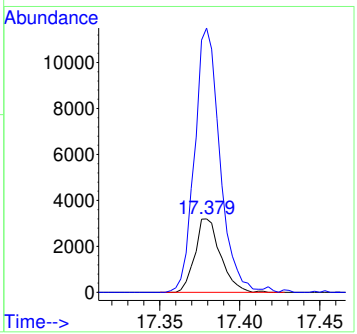


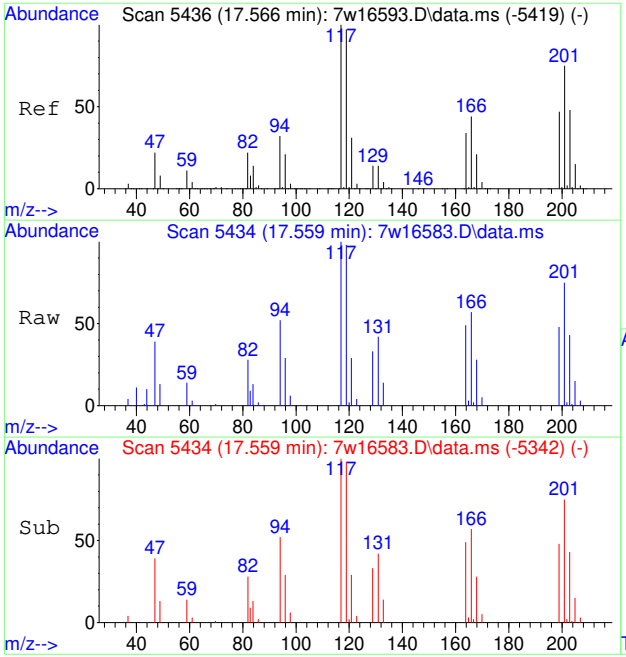


#104
N-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3557

Ion	Ratio	Lower	Upper
134	100		
91	358.3	231.1	429.1

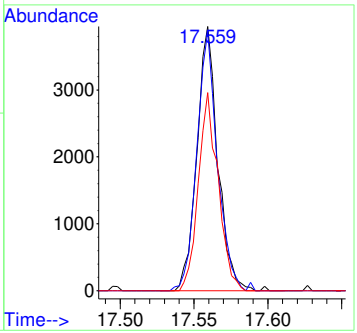


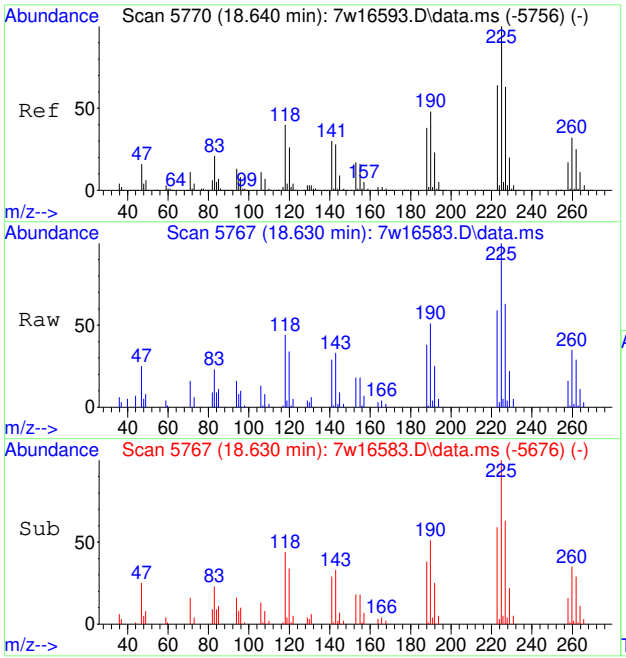


#105
HEXACHLOROETHANE
Concen: 0.16 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3887

Ion	Ratio	Lower	Upper
117	100		
119	96.9	68.3	126.9
201	70.9	45.9	85.3

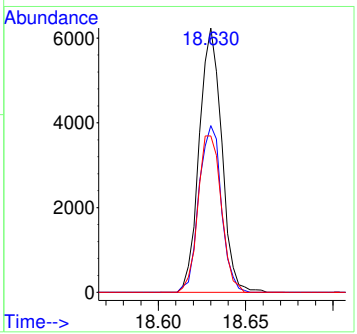


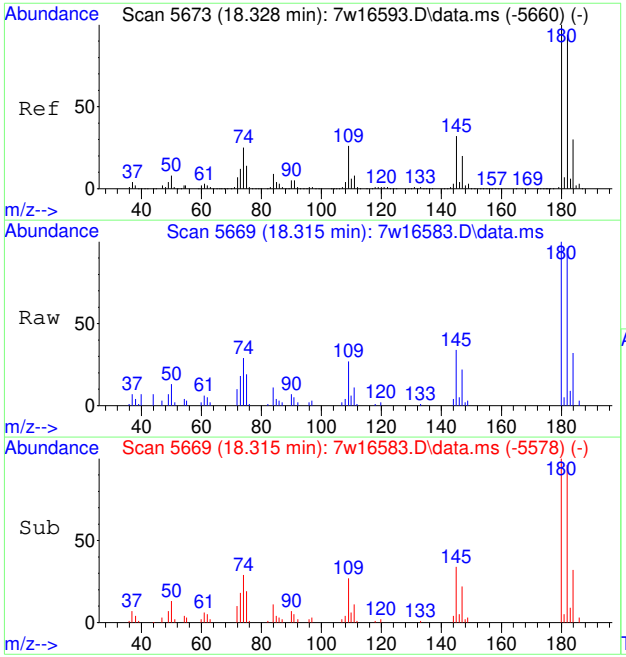


#106
HEXACHLOROBUTADIENE
Concen: 0.21 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:225 Resp: 5583

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.4	82.5
223	61.5	44.7	83.1

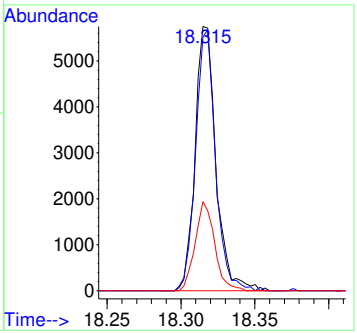


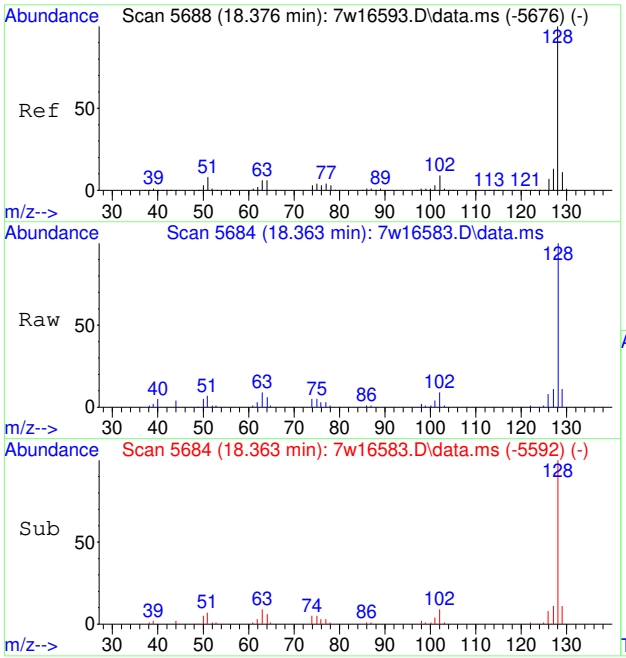


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.16 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:180 Resp: 5618

Ion	Ratio	Lower	Upper
180	100		
182	94.3	66.8	124.0
145	31.6	23.1	42.9

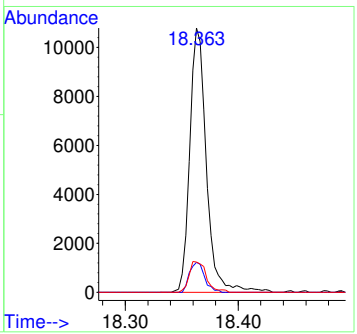


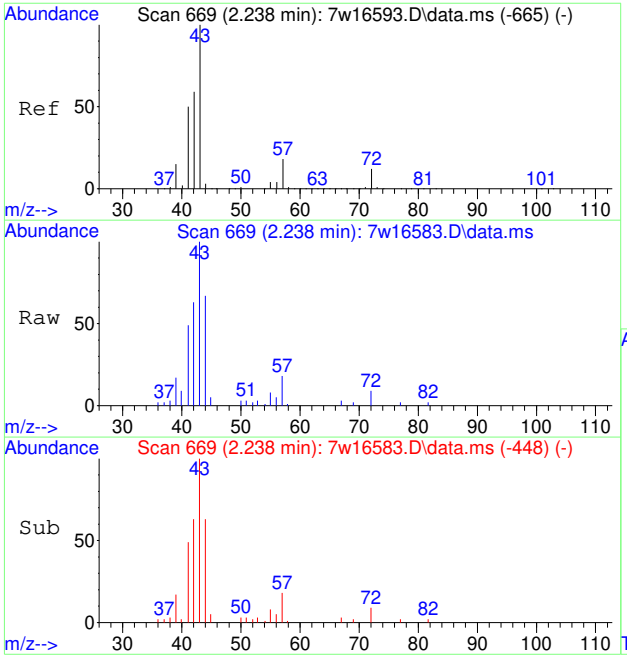


#108
NAPHTHALENE
Concen: 0.14 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:128 Resp: 11029

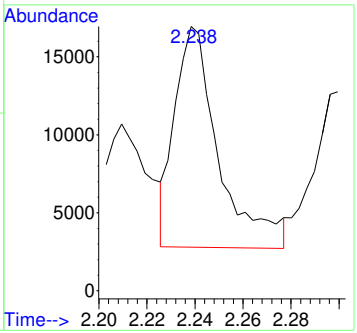
Ion	Ratio	Lower	Upper
128	100		
129	10.4	7.3	13.7
127	12.1	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.28 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:TIC Resp: 17908



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16583.D
Injection Time: 08/07/25 08:36

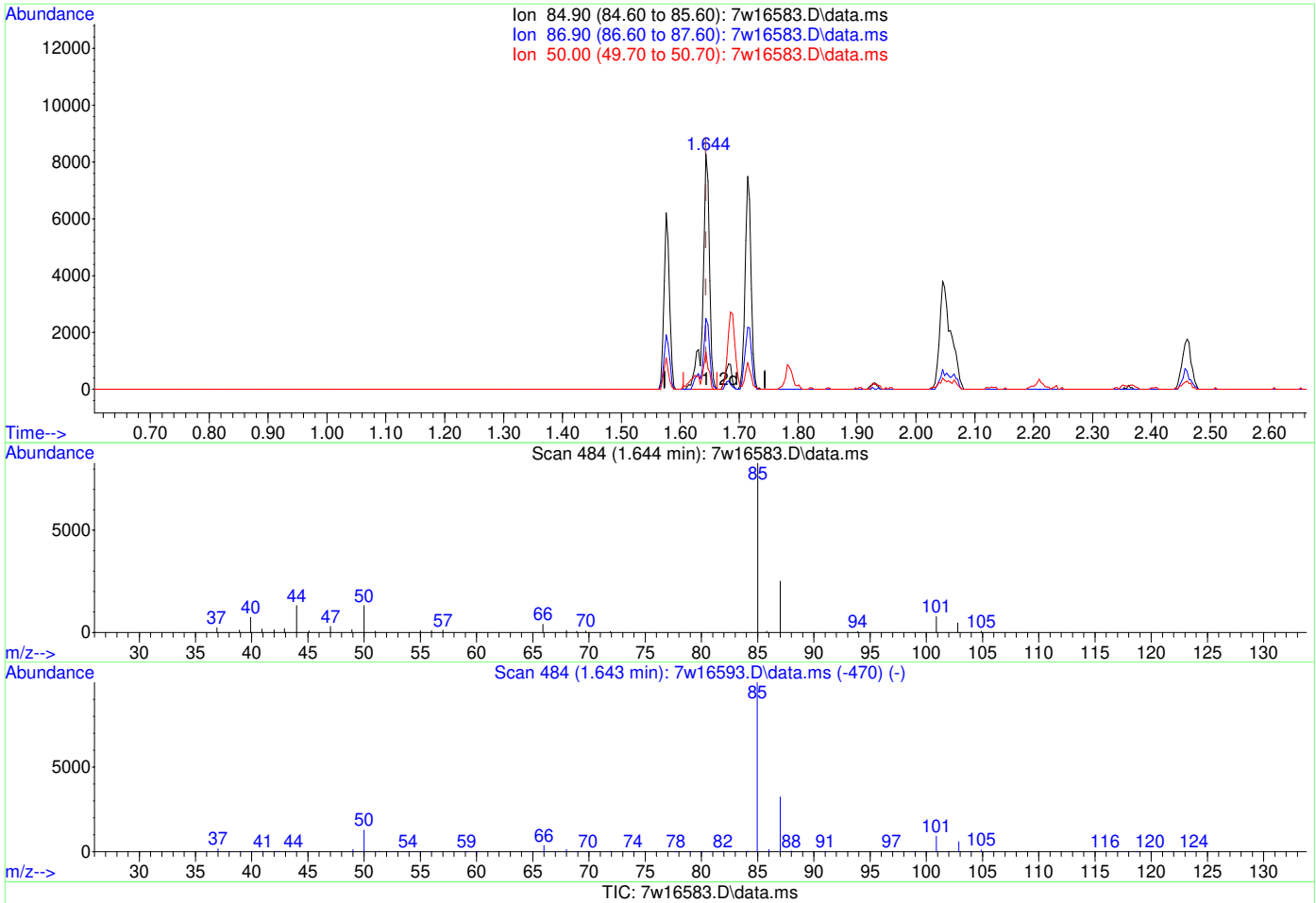
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.19PPBV

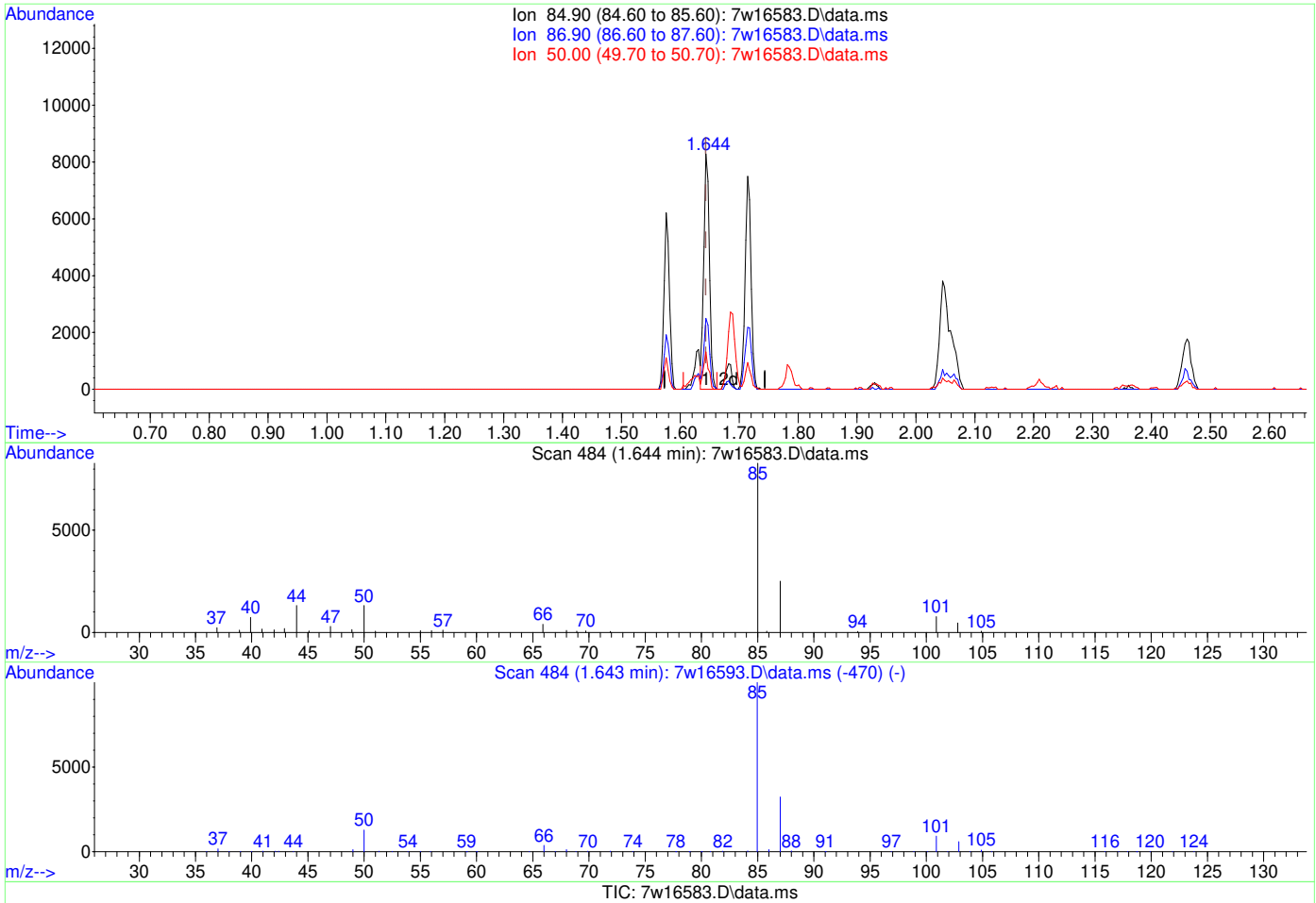
response 6418

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	31.93
50.00	17.30	21.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.16PPBV m

response 5428

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	37.75
50.00	17.30	25.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114041	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	577981	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	540711	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114041	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	422778	9.61	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	6776	0.46	PPBV		84
3) FREON 152A	1.608	65	3692	0.53	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	1804	0.56	PPBV		94
5) CHLOROTRIFLUOROETHENE	1.628	116	7994	0.51	PPBV		73
6) DICHLORODIFLUOROMETHANE	1.644	85	14890m	0.44	PPBV		
7) PROPYLENE	1.628	41	4672	0.52	PPBV		94
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	13815	0.54	PPBV		96
9) FREON 114	1.714	85	15094	0.51	PPBV		84
10) CHLOROMETHANE	1.685	52	1982	0.52	PPBV		98
11) VINYL CHLORIDE	1.747	62	7044	0.49	PPBV		97
12) 1,3-BUTADIENE	1.785	54	5673	0.51	PPBV	#	73
13) N-BUTANE	1.798	43	10254	0.54	PPBV	#	83
14) BROMOMETHANE	1.856	94	5311	0.49	PPBV		94
15) CHLOROETHANE	1.904	64	3739	0.50	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	13156	0.49	PPBV		97
17) ACETONITRILE	1.997	41	6126	0.52	PPBV		93
18) ACROLEIN	2.033	56	3496	0.57	PPBV		99
19) FREON 123	2.049	83	14538	0.53	PPBV		97
20) FREON 123A	2.065	117	8271	0.51	PPBV	#	48
21) TRICHLOROFLUOROMETHANE	2.129	101	16036	0.51	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	14702	0.56	PPBV		89
23) ACETONE	2.075	58	4031	0.56	PPBV		67
24) PENTANE	2.242	42	7252	0.54	PPBV	#	86
25) IODOMETHANE	2.300	142	15067	0.52	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.329	96	6087	0.52	PPBV	#	55
27) CARBON DISULFIDE	2.460	76	17823	0.53	PPBV		96
28) ETHANOL	1.936	45	3995	0.60	PPBV	#	94
29) BROMOETHENE	2.004	106	5459	0.48	PPBV		98
30) ACRYLONITRILE	2.210	52	5767	0.58	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	5842	0.53	PPBV	#	74
32) 3-CHLOROPROPENE	2.406	76	3137	0.50	PPBV	#	72
33) FREON 113	2.460	151	9645	0.53	PPBV		86
34) TRANS-1,2-DICHLOROETHENE	2.689	96	6513	0.51	PPBV	#	61
35) TERTIARY BUTYL ALCOHOL	2.345	59	15020	0.47	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	18863	0.52	PPBV	#	90
37) TETRAHYDROFURAN	3.483	72	2906	0.48	PPBV		79
38) HEXANE	3.242	57	12572	0.52	PPBV		83
39) VINYL ACETATE	2.827	86	1605	0.45	PPBV	#	82
40) 1,1-DICHLOROETHANE	2.759	63	12723	0.50	PPBV		98
41) METHYL ETHYL KETONE	2.927	72	3223	0.49	PPBV	#	79
42) CIS-1,2-DICHLOROETHENE	3.116	96	6837	0.51	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	3577	0.51	PPBV		100
44) ETHYL ACETATE	3.255	61	2292	0.47	PPBV		85
45) METHYL ACRYLATE	3.238	55	15089	0.50	PPBV	#	98
46) CHLOROFORM	3.258	83	14039	0.53	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	14638	0.53	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	13952	0.51	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	13931	0.47	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	10566	0.51	PPBV		99
51)	BENZENE	4.126	78	19953	0.51	PPBV		90
53)	CYCLOHEXANE	4.332	84	9049	0.51	PPBV	#	72
54)	2,3-DIMETHYLPENTANE	4.582	71	4648	0.51	PPBV		64
55)	TRICHLOROETHENE	5.017	95	9226	0.49	PPBV		85
56)	1,2-DICHLOROPROPANE	4.782	63	8549	0.51	PPBV		91
57)	DIBROMOMETHANE	4.743	174	7819	0.51	PPBV		91
58)	ETHYL ACRYLATE	4.904	55	18149	0.48	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.959	83	14412	0.46	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	40435	0.51	PPBV	#	93
61)	1,4-DIOXANE	5.062	88	4245	0.45	PPBV	#	72
62)	HEPTANE	5.418	43	13738	0.52	PPBV		88
63)	METHYL METHACRYLATE	5.322	69	7482	0.49	PPBV		87
64)	METHYL ISOBUTYL KETONE	6.049	58	7119	0.46	PPBV		87
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	11946	0.45	PPBV		99
66)	TOLUENE	7.126	91	24682	0.51	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	12380	0.50	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	10011	0.41	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	7248	0.51	PPBV		92
70)	2-HEXANONE	7.708	58	9642	0.47	PPBV	#	81
71)	ETHYL METHACRYLATE	7.833	69	12576	0.48	PPBV		91
72)	TETRACHLOROETHENE	8.836	164	9191	0.52	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.663	129	12752	0.43	PPBV		97
74)	1,2-DIBROMOETHANE	7.994	107	13213	0.52	PPBV		99
75)	OCTANE	8.994	43	18440	0.51	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.052	131	9977	0.47	PPBV		90
78)	CHLOROBENZENE	10.045	112	20418	0.52	PPBV		90
79)	ETHYLBENZENE	10.917	91	33108	0.52	PPBV		96
80)	M,P-XYLENE	11.347	91	51511	1.00	PPBV		98
81)	O-XYLENE	12.273	91	26468	0.52	PPBV		97
82)	STYRENE	12.068	104	18750	0.48	PPBV		94
83)	NONANE	13.402	43	19802	0.51	PPBV		81
84)	BROMOFORM	11.155	173	10827	0.42	PPBV		95
85)	1,1,2,2-TETRACHLOROETHANE	12.286	83	18876	0.51	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.563	75	15262	0.53	PPBV	#	99
88)	ISOPROPYLBENZENE	13.791	120	9713	0.50	PPBV		80
89)	BROMOBENZENE	13.640	77	18640	0.51	PPBV		75
90)	2-CHLOROTOLUENE	14.778	126	8526	0.47	PPBV	#	74
91)	N-PROPYLBENZENE	15.129	120	9669	0.46	PPBV		98
92)	4-ETHYLTOLUENE	15.569	105	36862	0.48	PPBV	#	47
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	30468	0.48	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.174	118	14307	0.44	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	7825	0.51	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.502	105	31128	0.49	PPBV		98
97)	BENZYL CHLORIDE	16.598	91	19459	0.35	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	20646	0.48	PPBV		96
99)	P-DICHLOROBENZENE	16.662	146	20868	0.49	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	19799	0.50	PPBV		95
101)	SEC-BUTYLBENZENE	16.813	134	9482	0.51	PPBV		86
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	30663	0.49	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	10237	0.49	PPBV		94
104)	N-BUTYLBENZENE	17.376	134	9347	0.47	PPBV		76
105)	HEXACHLOROETHANE	17.559	117	10816	0.44	PPBV		97
106)	HEXACHLOROBUTADIENE	18.633	225	14662	0.54	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.318	180	15355	0.44	PPBV		97
108)	NAPHTHALENE	18.366	128	32243	0.40	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	43130	0.69	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

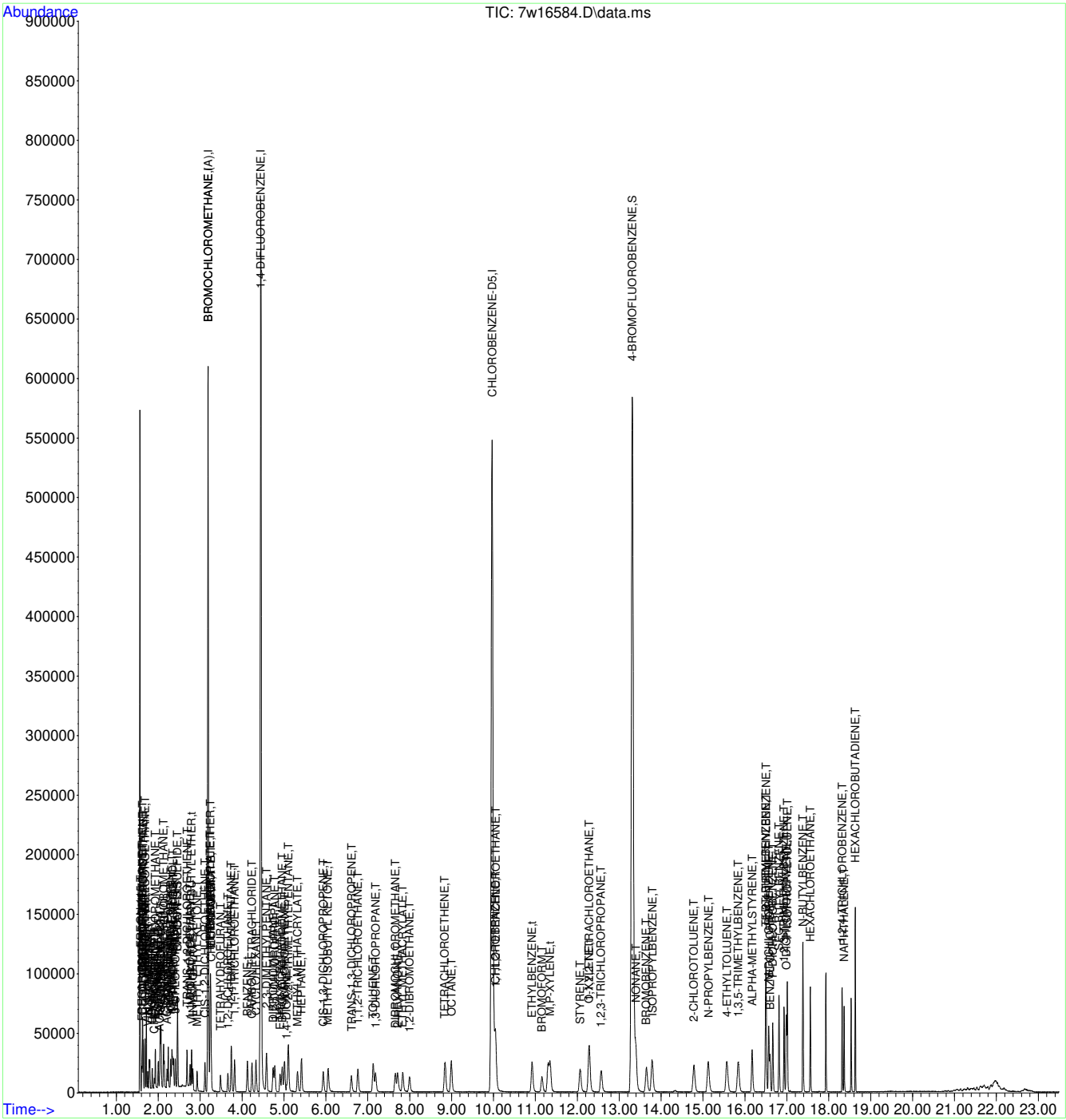
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

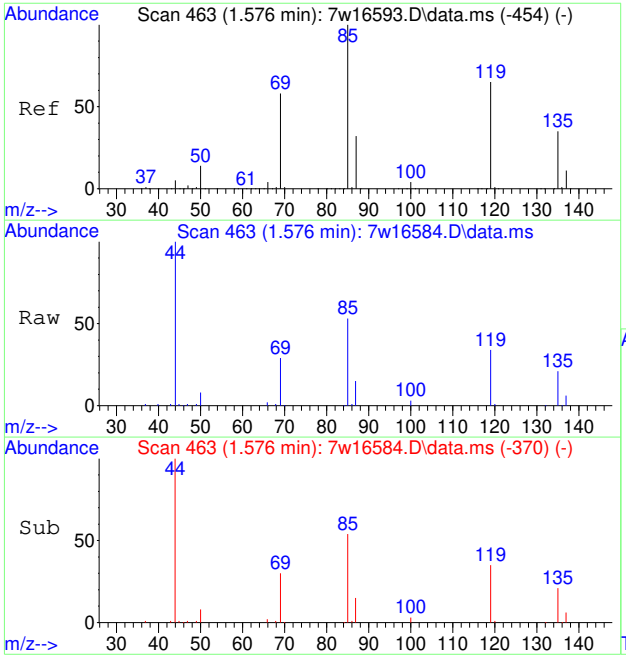
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

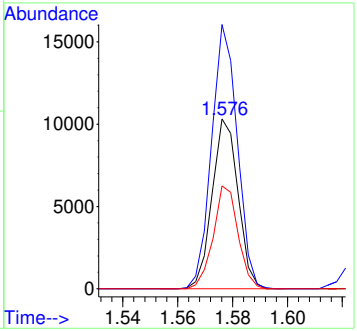


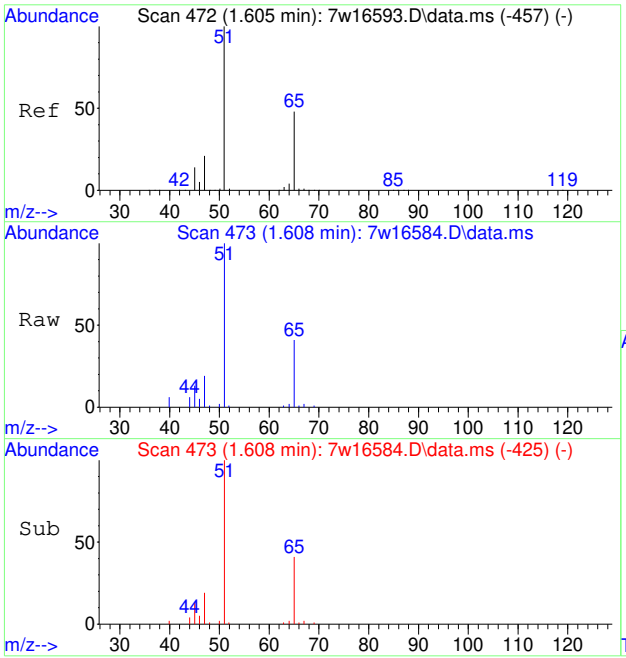


#2
FREON 115
Concen: 0.46 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:119 Resp: 6776

Ion	Ratio	Lower	Upper
119	100		
85	154.0	90.9	168.7
135	58.1	38.2	71.0

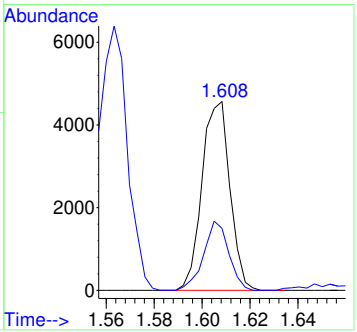


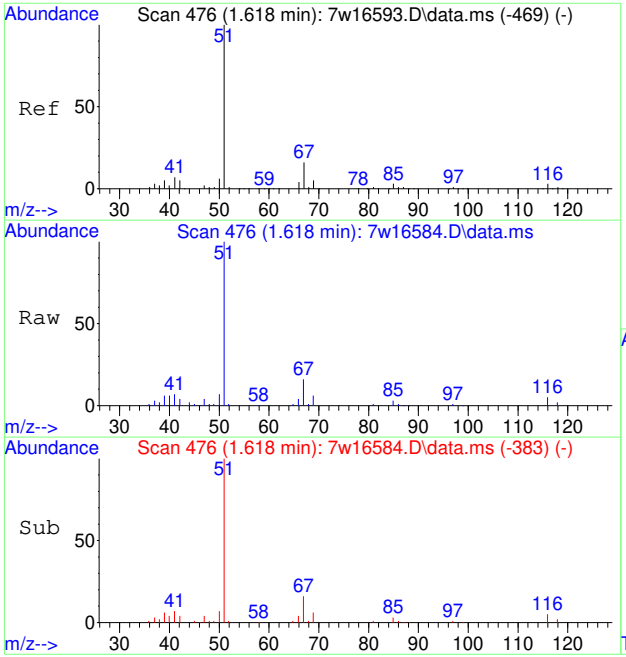


#3
FREON 152A
Concen: 0.53 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 3692

Ion	Ratio	Lower	Upper
65	100		
45	33.0	20.6	38.4

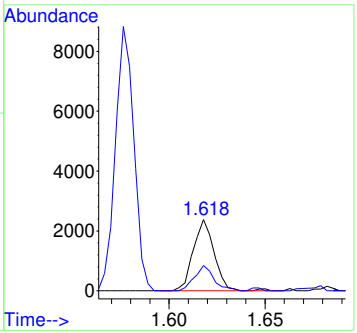


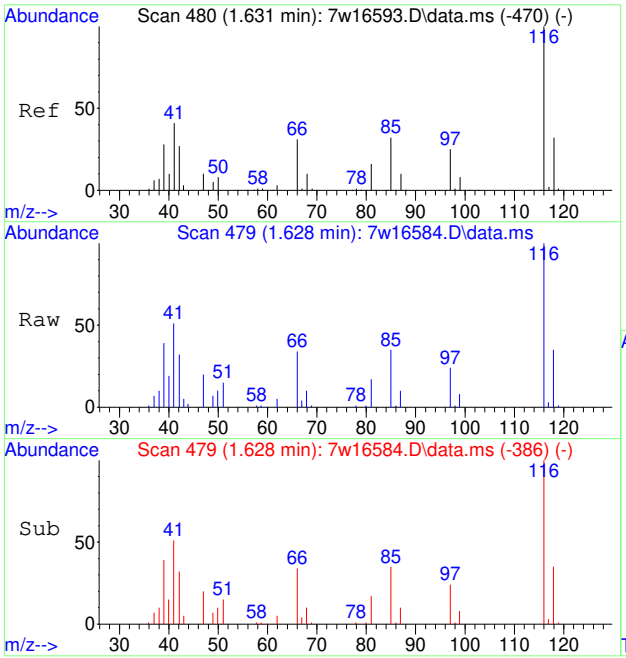


#4
CHLORODIFLUOROMETHANE
Concen: 0.56 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 1804

Ion	Ratio	Lower	Upper
67	100		
69	33.0	25.4	47.2

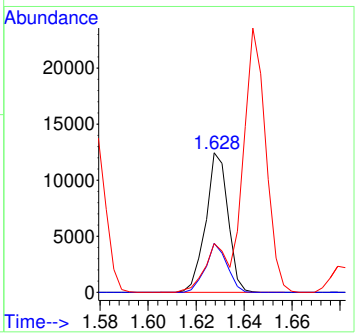


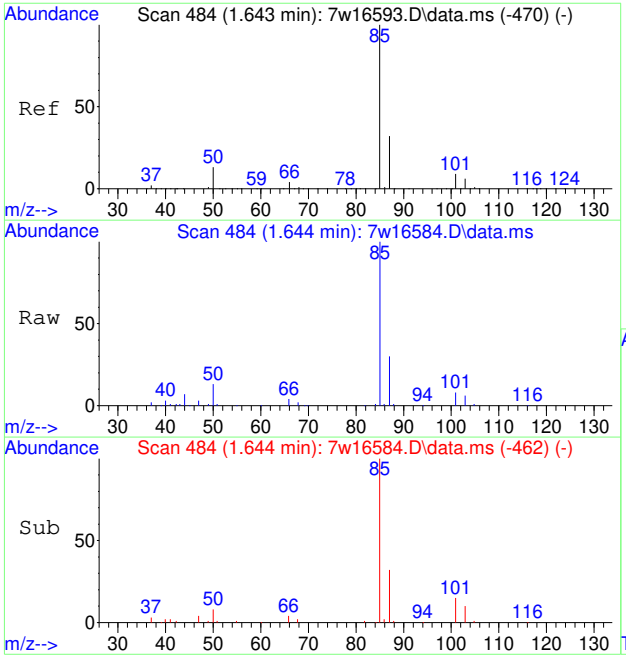


#5
CHLOROTRIFLUOROETHENE
Concen: 0.51 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:116 Resp: 7994

Ion	Ratio	Lower	Upper
116	100		
118	33.8	22.7	42.1
85	221.5	194.7	361.7

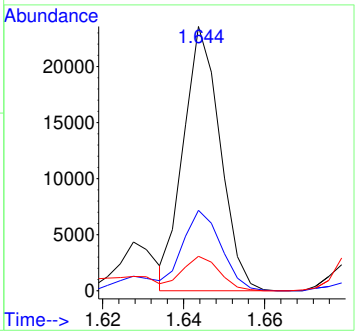


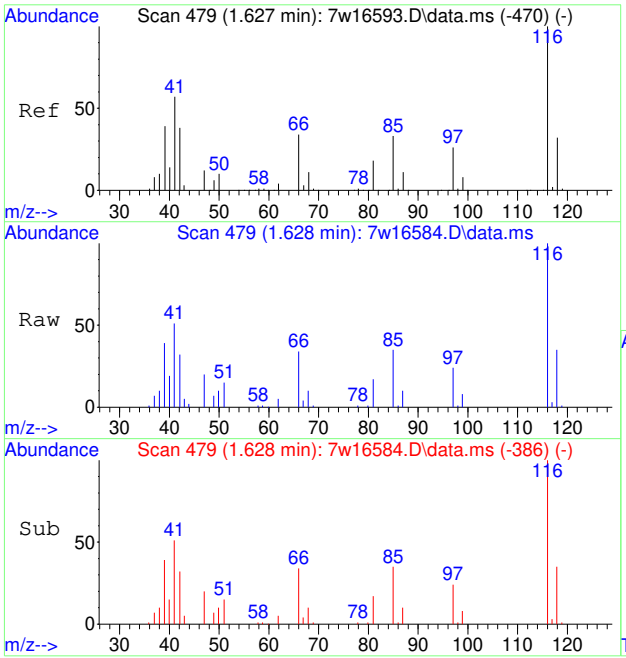


#6
DICHLORODIFLUOROMETHANE
Concen: 0.44 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 14890

Ion	Ratio	Lower	Upper
85	100		
87	38.2	23.1	42.9
50	23.9	12.1	22.5#

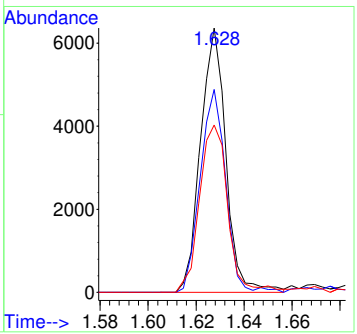


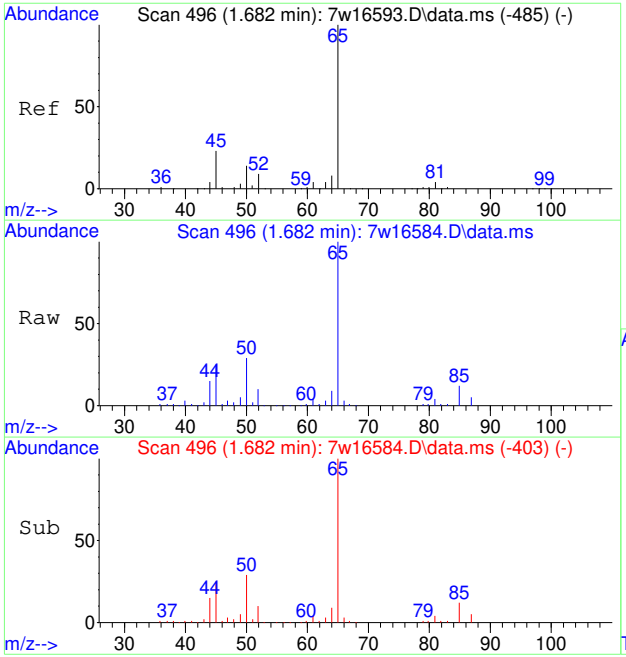


#7
PROPYLENE
Concen: 0.52 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 4672

Ion	Ratio	Lower	Upper
41	100		
39	76.8	51.0	94.8
42	71.9	46.6	86.6

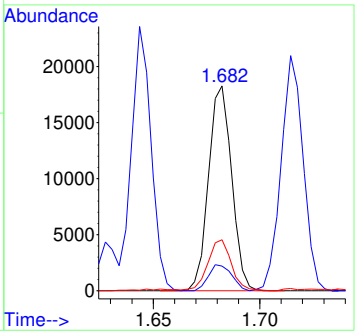


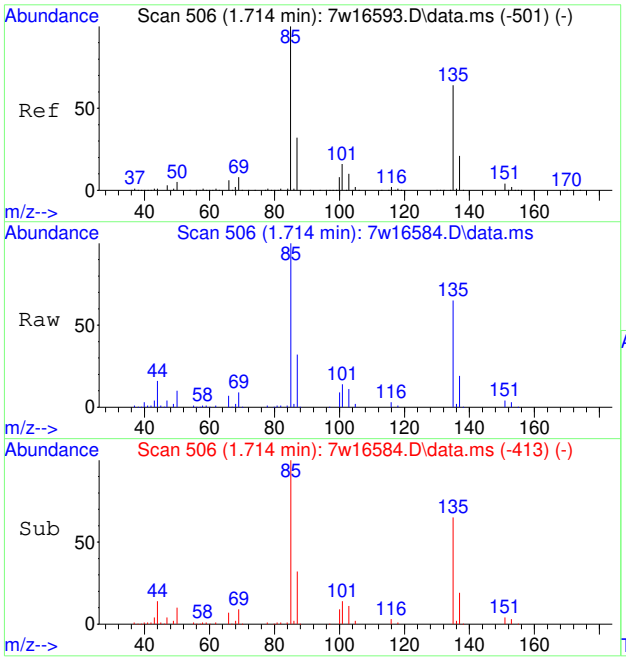


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.54 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 13815

Ion	Ratio	Lower	Upper
65	100		
85	13.0	9.7	17.9
45	26.7	17.0	31.6

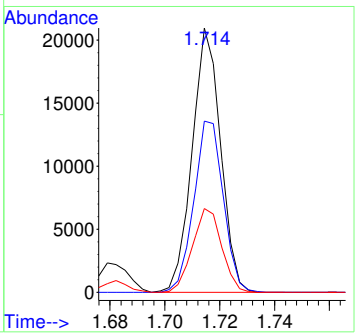


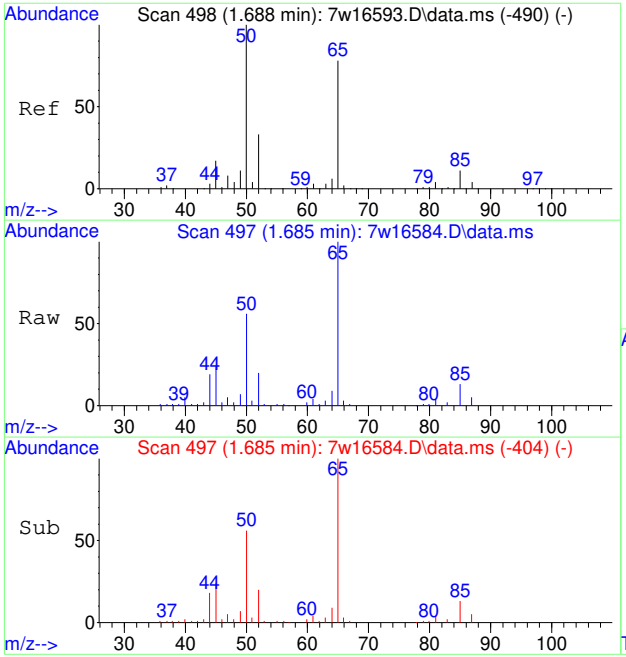


#9
FREON 114
Concen: 0.51 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 15094

Ion	Ratio	Lower	Upper
85	100		
135	67.3	61.3	113.9
87	32.6	23.2	43.0

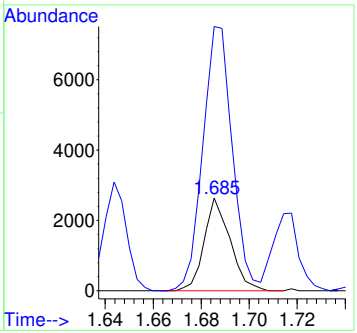


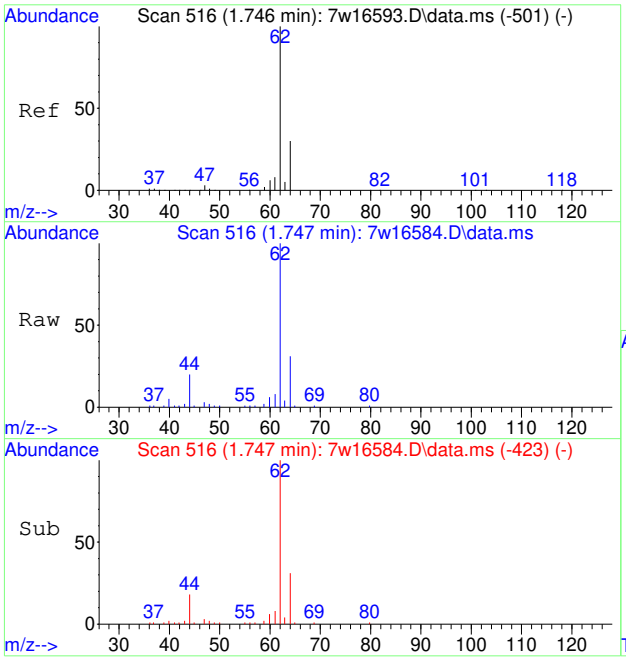


#10
CHLOROMETHANE
Concen: 0.52 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 1982

Ion	Ratio	Lower	Upper
52	100		
50	321.8	227.6	422.6

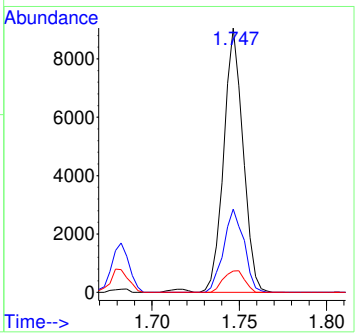


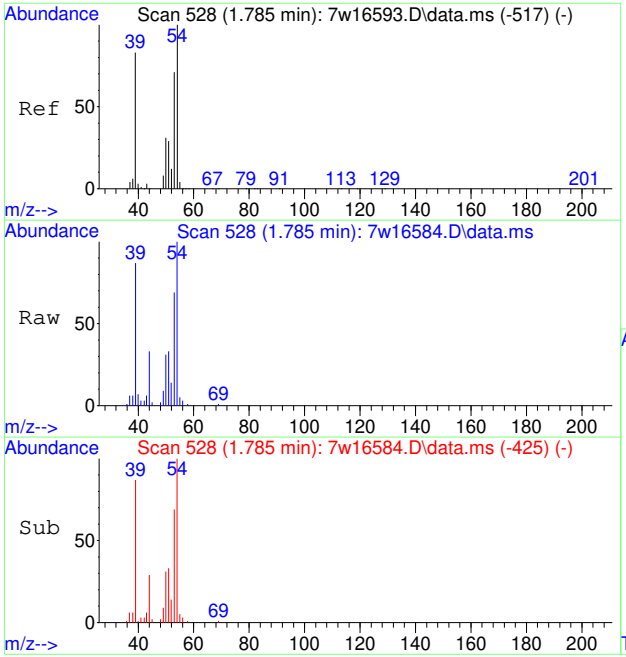


#11
VINYL CHLORIDE
Concen: 0.49 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 7044

Ion	Ratio	Lower	Upper
62	100		
64	33.0	21.6	40.2
61	8.9	5.7	10.7

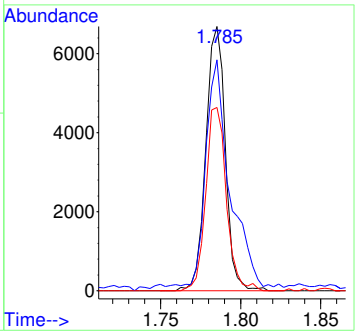


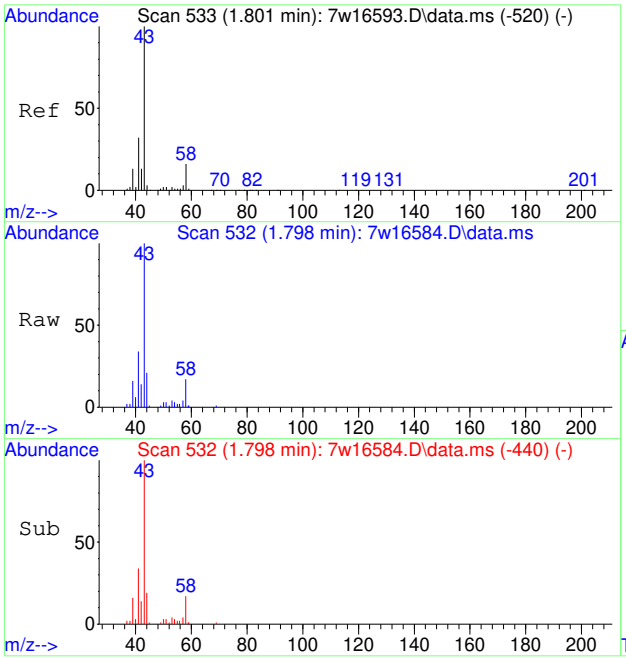


#12
1,3-BUTADIENE
Concen: 0.51 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 54 Resp: 5673

Ion	Ratio	Lower	Upper
54	100		
39	106.7	125.6	185.6#
53	73.4	40.7	100.7

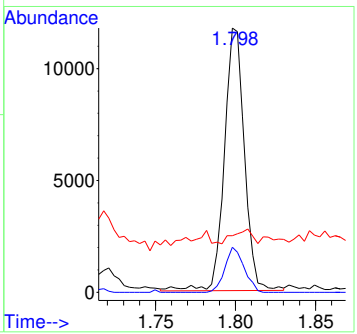


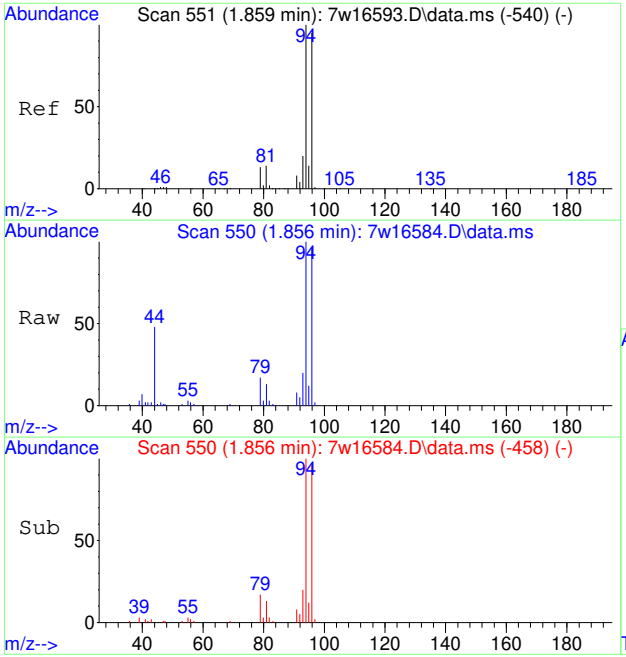


#13
N-BUTANE
Concen: 0.54 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 10254

Ion	Ratio	Lower	Upper
43	100		
58	16.4	10.4	19.4
44	24.5	3.0	5.6#

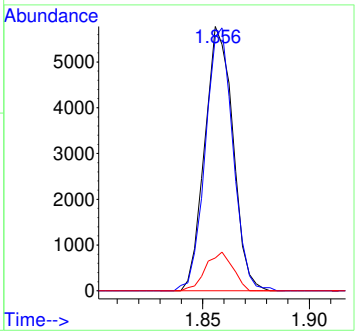


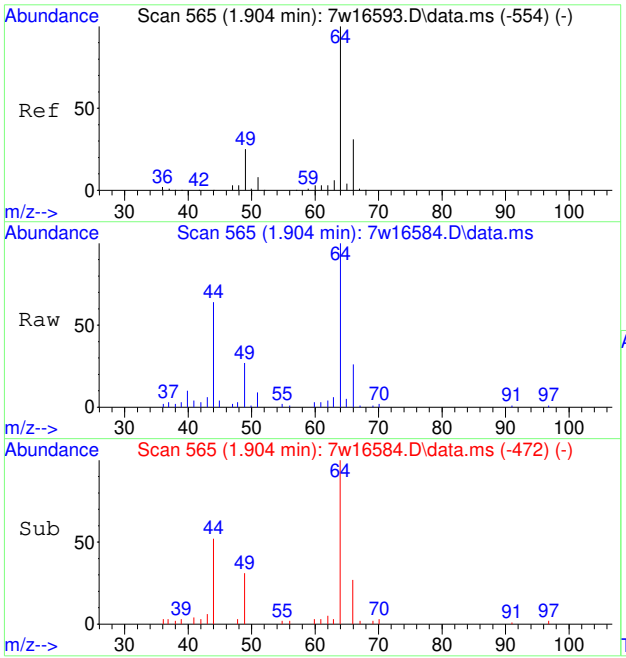


#14
BROMOMETHANE
Concen: 0.49 PPBV
RT: 1.856 min Scan# 550
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 94 Resp: 5311

Ion	Ratio	Lower	Upper
94	100		
96	97.2	63.6	118.0
95	14.2	10.0	18.6

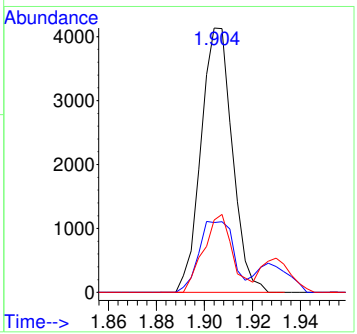


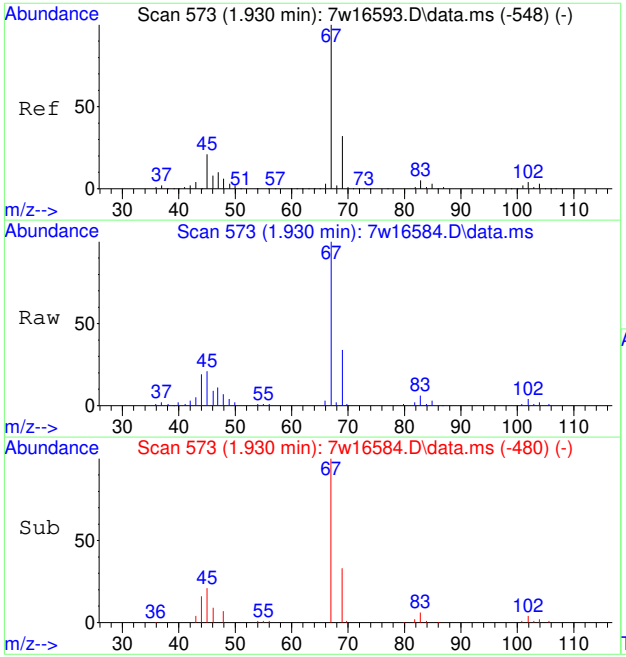


#15
CHLOROETHANE
Concen: 0.50 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 64 Resp: 3739

Ion	Ratio	Lower	Upper
64	100		
66	31.0	23.0	42.6
49	27.5	21.5	39.9

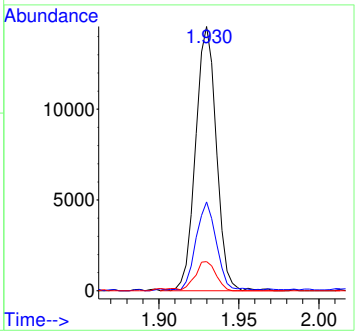


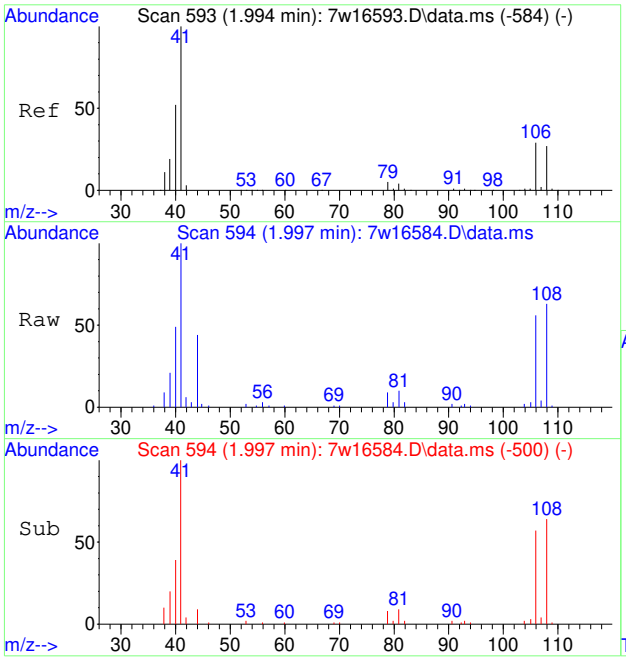


#16
DICHLOROFLUOROMETHANE
Concen: 0.49 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 13156

Ion	Ratio	Lower	Upper
67	100		
69	34.1	23.2	43.0
47	11.9	9.6	17.8

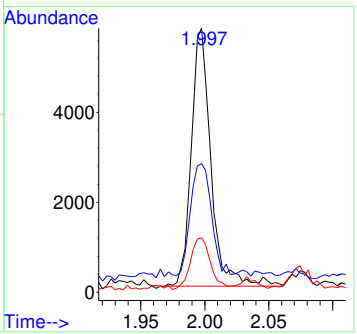


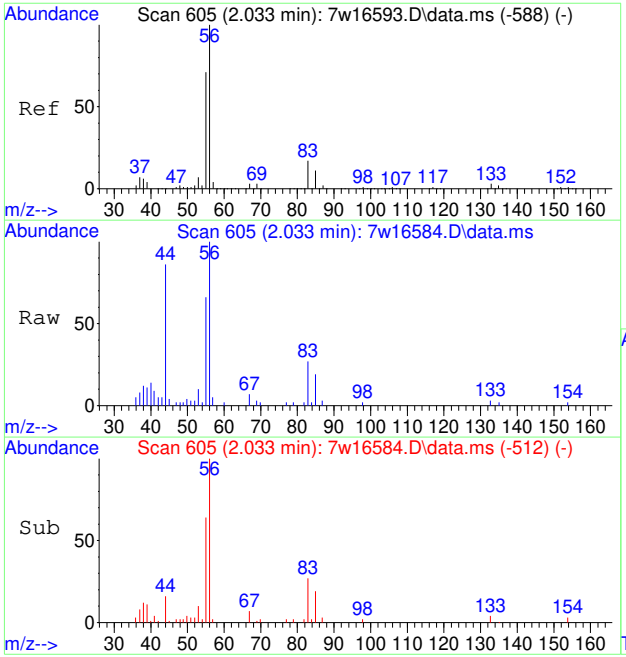


#17
ACETONITRILE
Concen: 0.52 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 6126

Ion	Ratio	Lower	Upper
41	100		
40	61.6	38.4	71.4
39	19.6	14.5	26.9

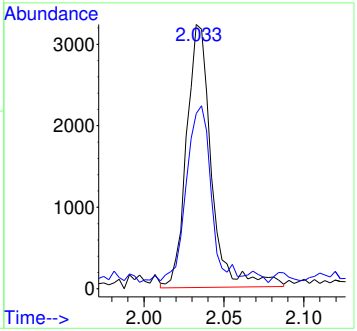


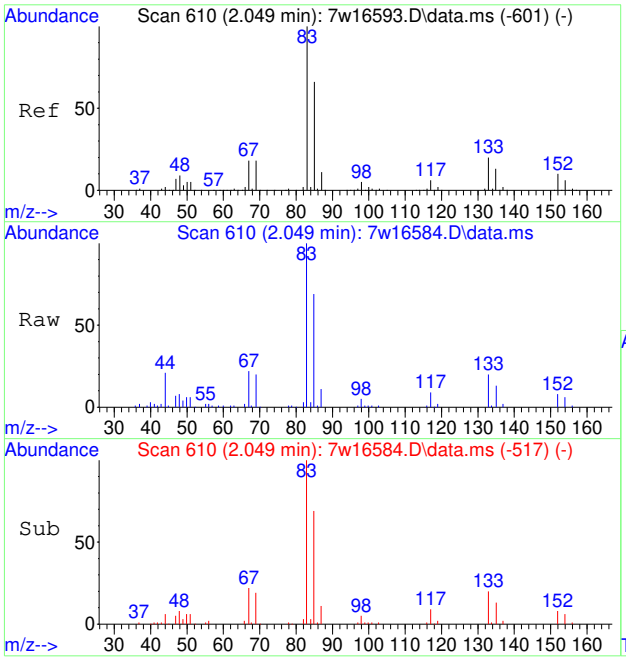


#18
ACROLEIN
Concen: 0.57 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 56 Resp: 3496

Ion	Ratio	Lower	Upper
56	100		
55	72.0	51.2	95.2

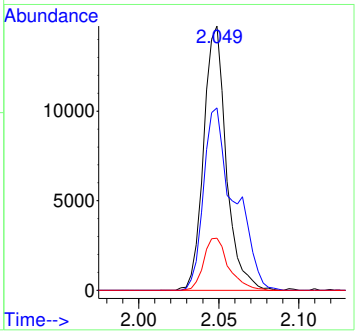


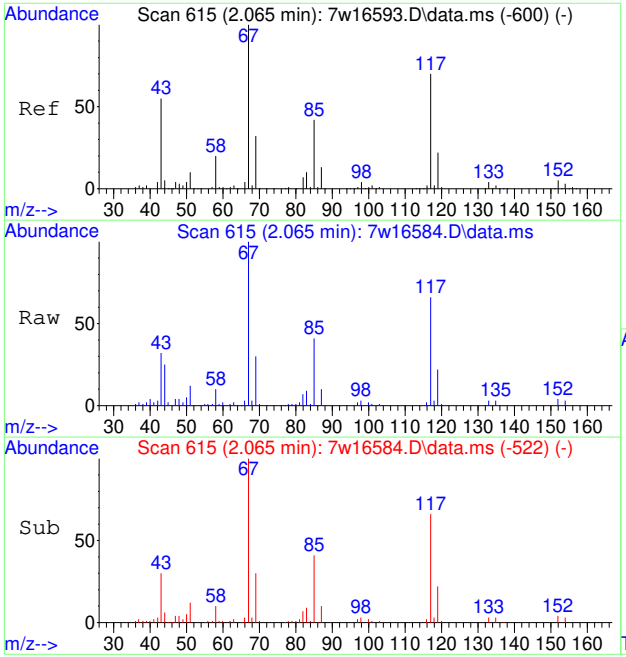


#19
FREON 123
Concen: 0.53 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14538

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.8	19.9	36.9

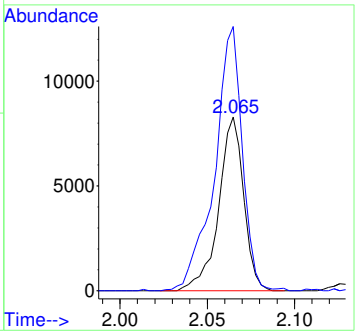


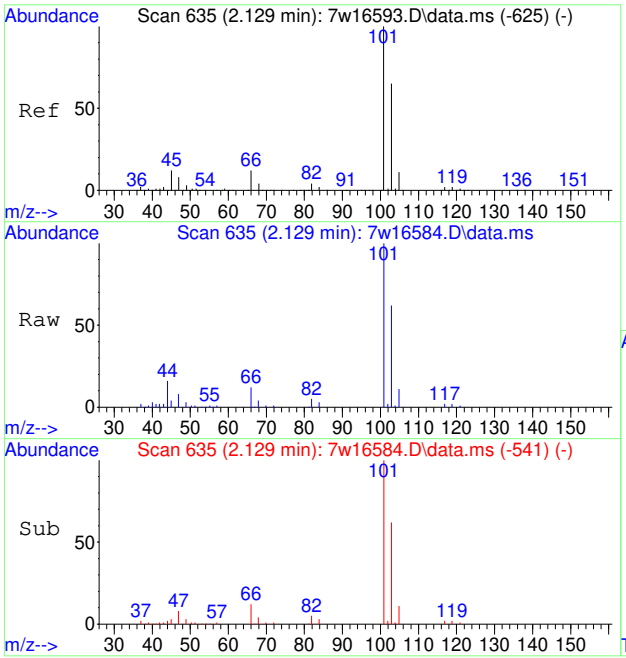


#20
FREON 123A
Concen: 0.51 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 8271

Ion	Ratio	Lower	Upper
117	100		
67	168.6	78.8	146.4#

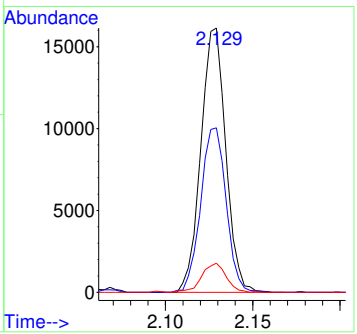


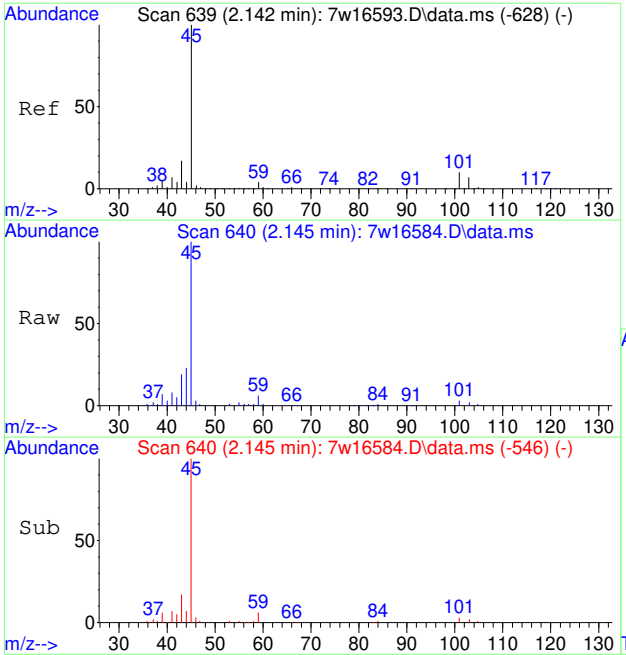


#21
TRICHLOROFLUOROMETHANE
Concen: 0.51 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:101 Resp: 16036

Ion	Ratio	Lower	Upper
101	100		
103	63.5	44.3	82.3
105	11.1	7.3	13.7

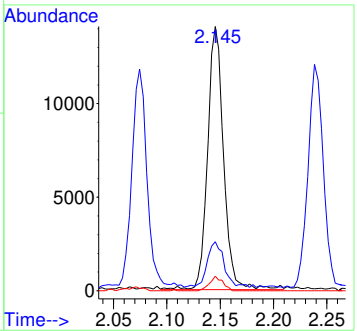


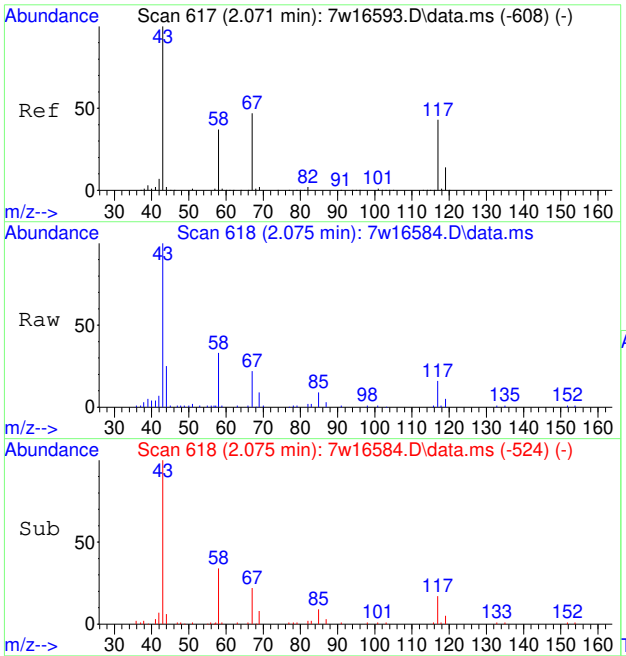


#22
ISOPROPYL ALCOHOL
Concen: 0.56 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 14702

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.5	3.1	5.8

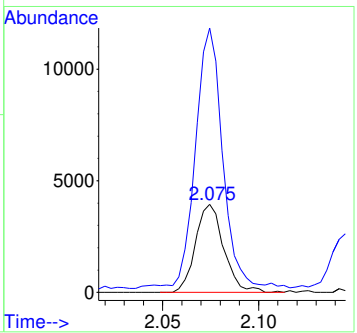


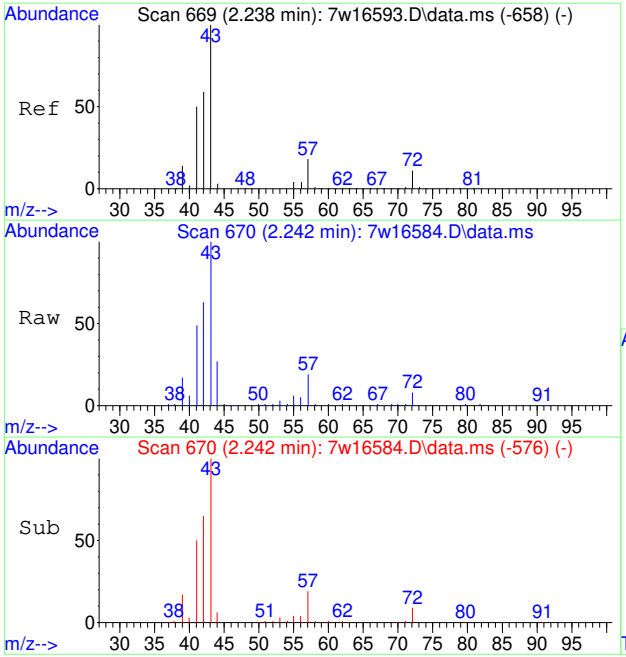


#23
ACETONE
Concen: 0.56 PPBV
RT: 2.075 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 4031

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

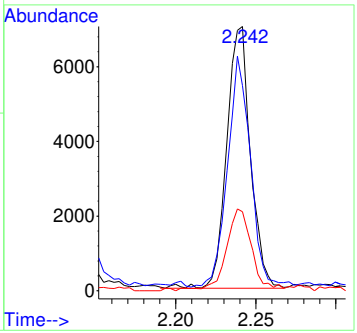


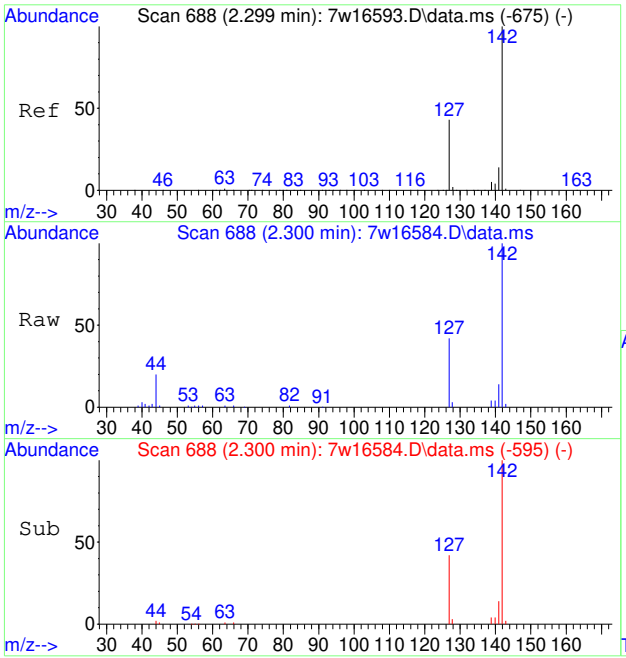


#24
PENTANE
Concen: 0.54 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 42 Resp: 7252

Ion	Ratio	Lower	Upper
42	100		
41	86.5	69.2	128.6
57	35.6	18.6	34.6#

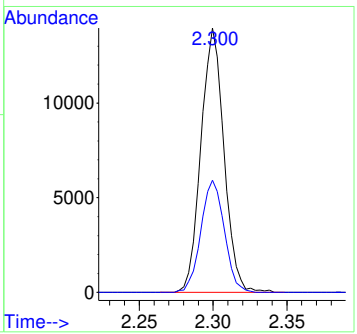


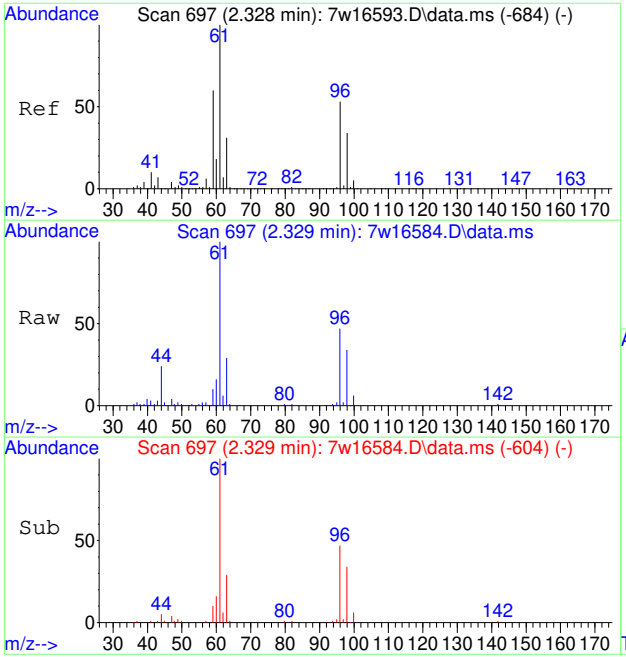


#25
IODOMETHANE
Concen: 0.52 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:142 Resp: 15067

Ion	Ratio	Lower	Upper
142	100		
127	43.2	32.1	59.7

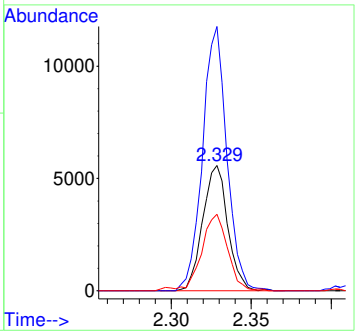


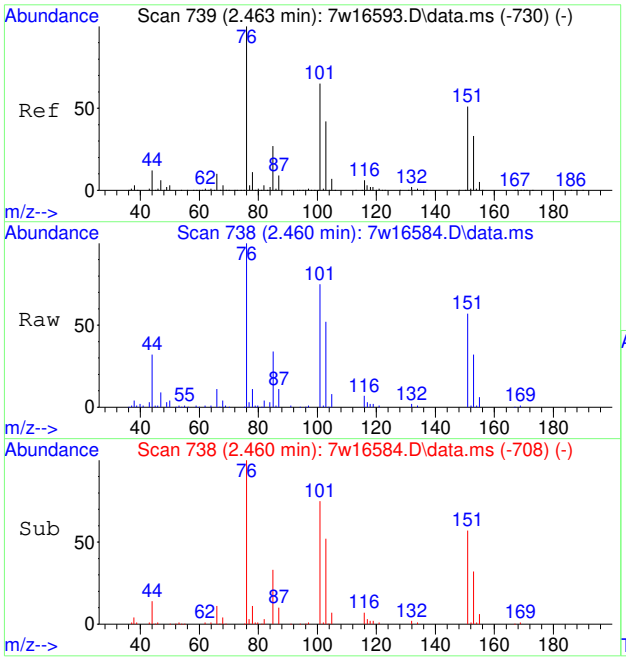


#26
1,1-DICHLOROETHYLENE
Concen: 0.52 PPBV
RT: 2.329 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6087

Ion	Ratio	Lower	Upper
96	100		
61	204.2	98.3	182.5#
63	64.2	33.2	61.7#

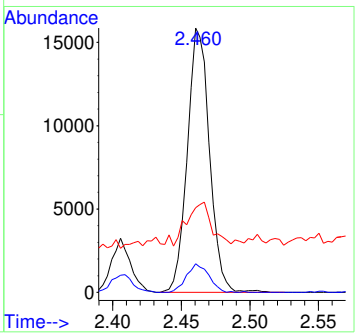


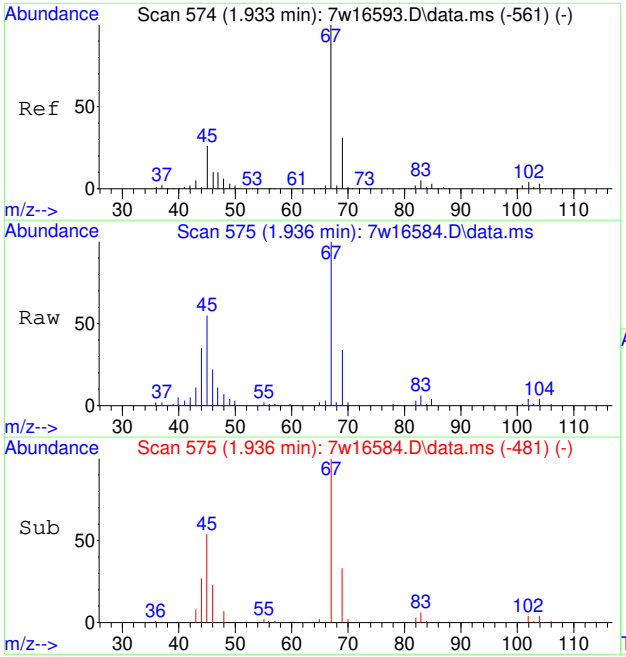


#27
CARBON DISULFIDE
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 17823

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	21.1	13.0	24.1

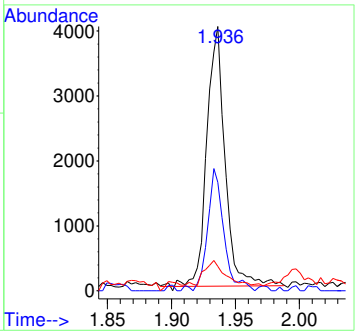


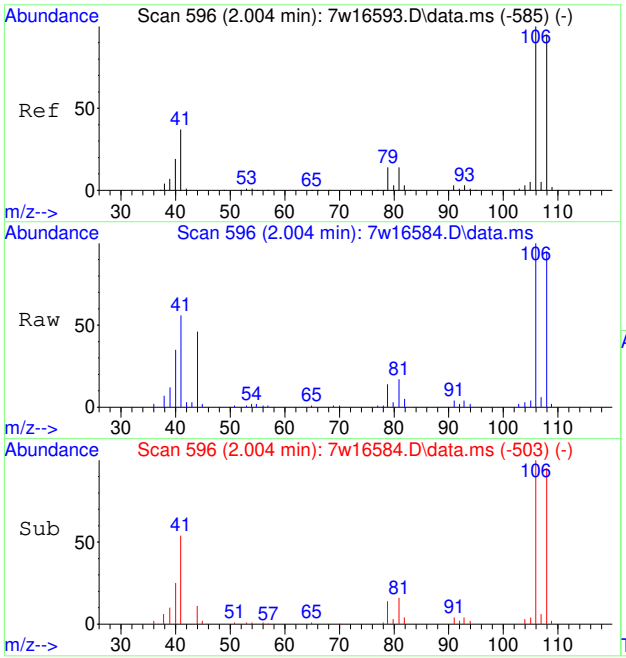


#28
ETHANOL
Concen: 0.60 PPBV
RT: 1.936 min Scan# 575
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 3995

Ion	Ratio	Lower	Upper
45	100		
46	43.2	29.7	55.1
42	19.9	7.3	13.5#

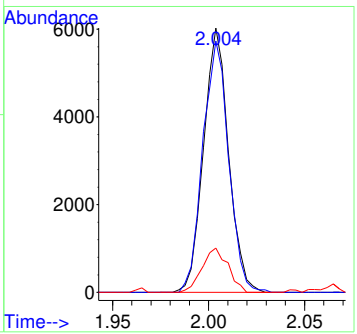


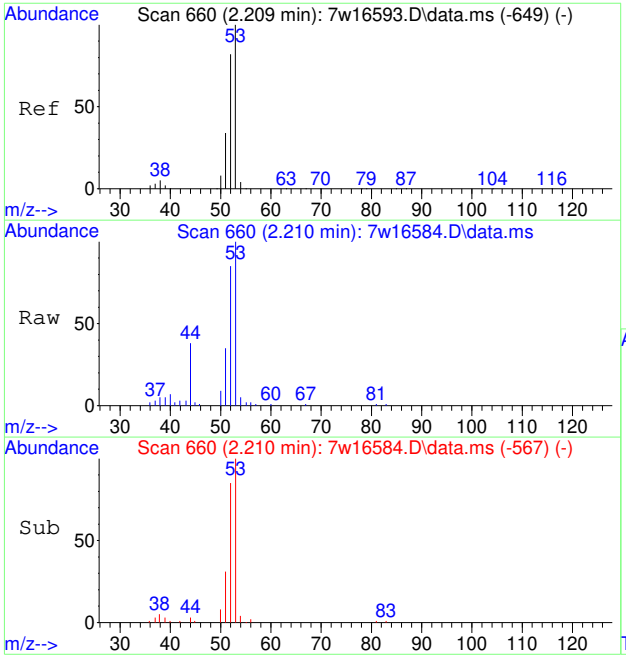


#29
BROMOETHENE
Concen: 0.48 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:106 Resp: 5459

Ion	Ratio	Lower	Upper
106	100		
108	98.1	68.3	126.8
81	17.4	14.7	27.3

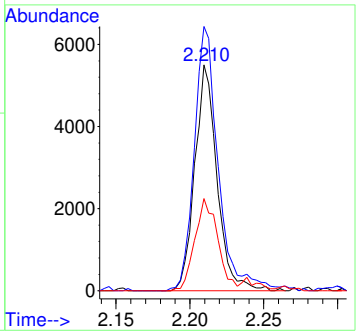


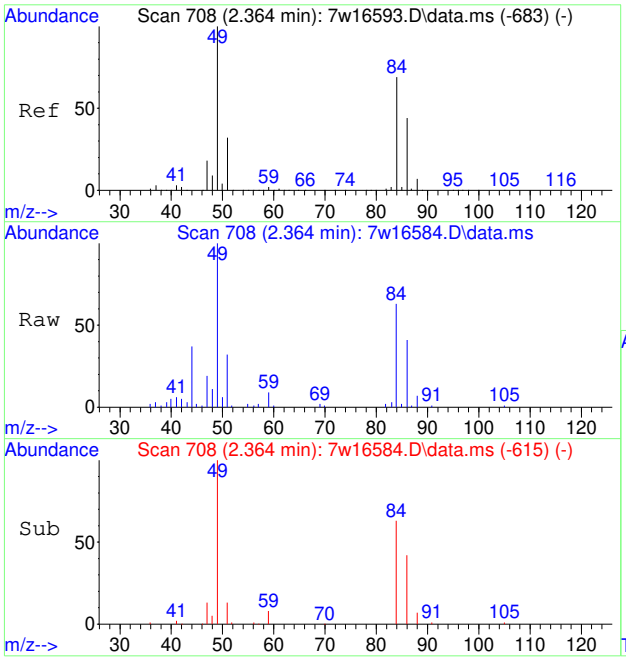


#30
ACRYLONITRILE
Concen: 0.58 PPBV
RT: 2.210 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 5767

Ion	Ratio	Lower	Upper
52	100		
53	126.8	86.3	160.3
51	41.9	33.6	62.4

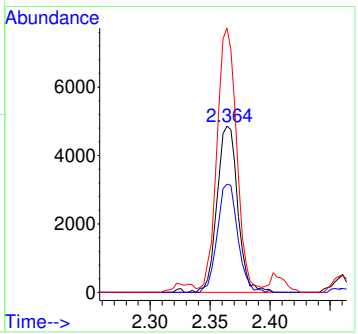


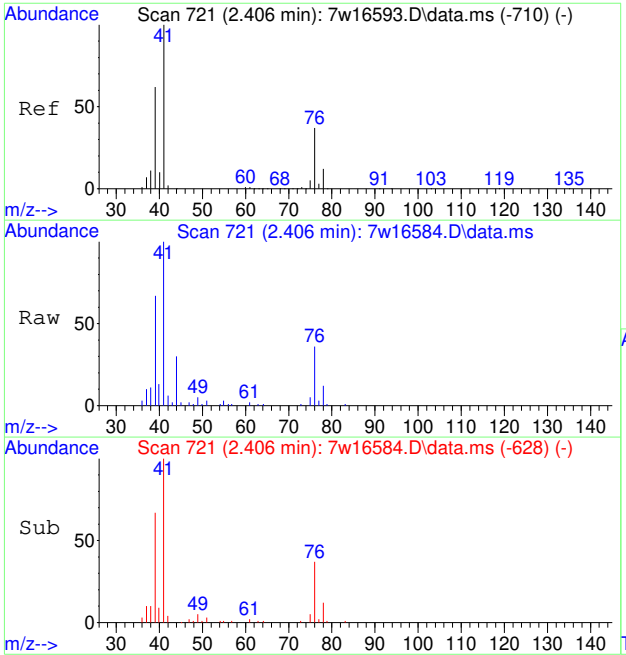


#31
METHYLENE CHLORIDE
Concen: 0.53 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 5842

Ion	Ratio	Lower	Upper
84	100		
86	64.4	44.9	83.5
49	156.9	79.7	148.1#

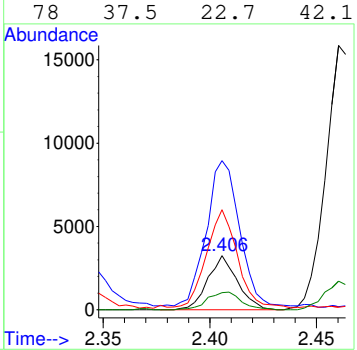


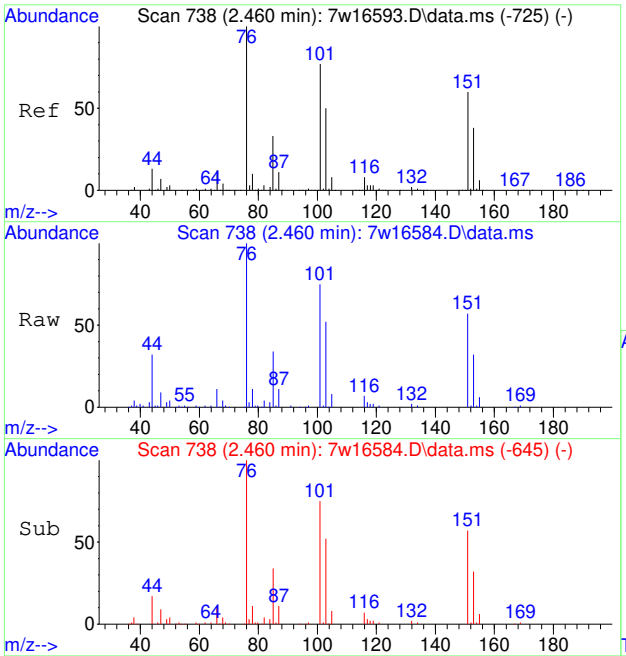


#32
3-CHLOROPROPENE
Concen: 0.50 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 3137

Ion	Ratio	Lower	Upper
76	100		
41	305.0	160.9	298.9#
39	194.1	150.7	279.9
78	37.5	22.7	42.1

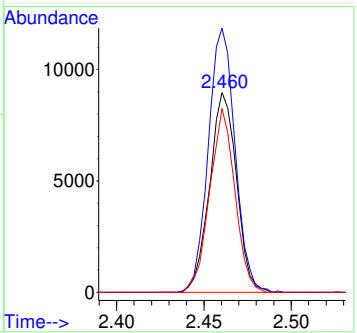


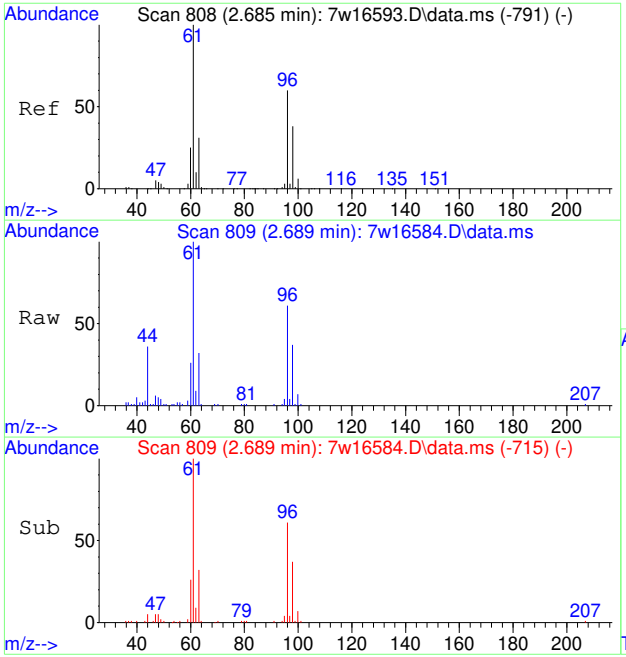


#33
FREON 113
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:151 Resp: 9645

Ion	Ratio	Lower	Upper
151	100		
101	131.3	81.1	150.7
103	86.0	51.4	95.4

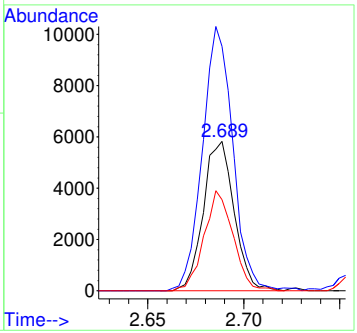


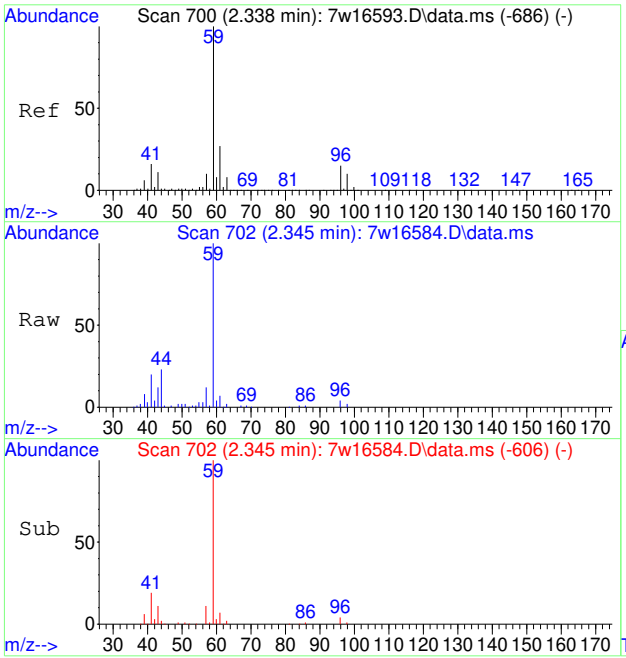


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6513

Ion	Ratio	Lower	Upper
96	100		
61	175.4	78.5	145.9#
98	63.1	46.5	86.3

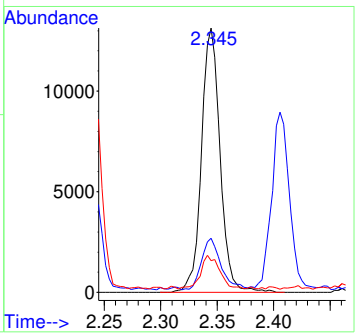


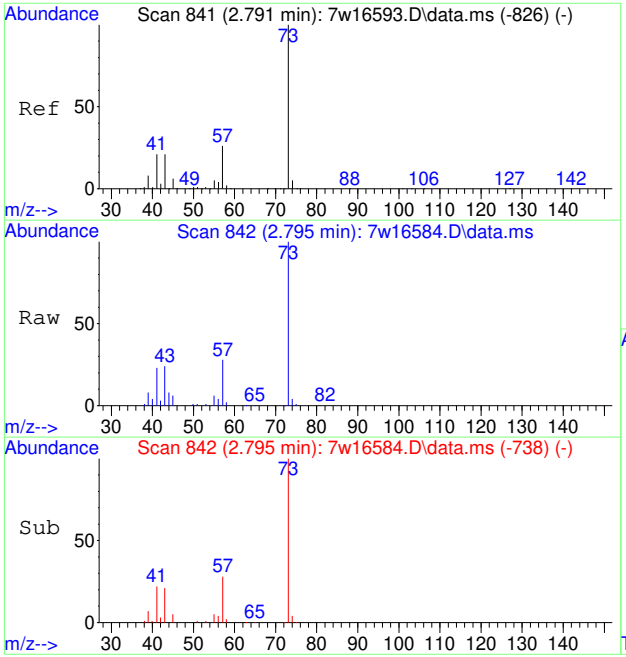


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.47 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 15020

Ion	Ratio	Lower	Upper
59	100		
41	20.4	15.3	28.5
43	12.8	12.3	22.9

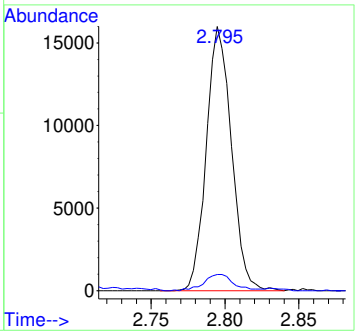


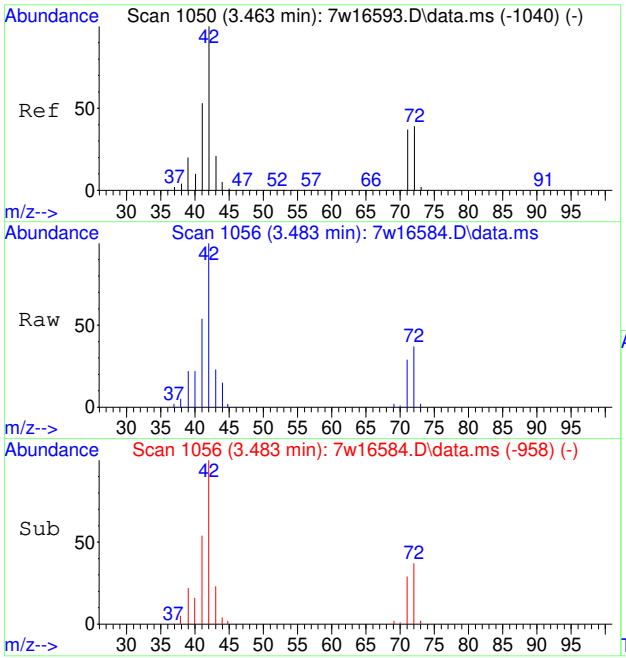


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.52 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 73 Resp: 18863

Ion	Ratio	Lower	Upper
73	100		
45	8.1	3.4	6.4#

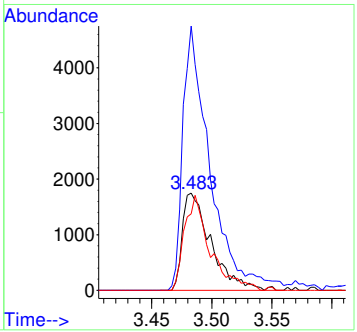


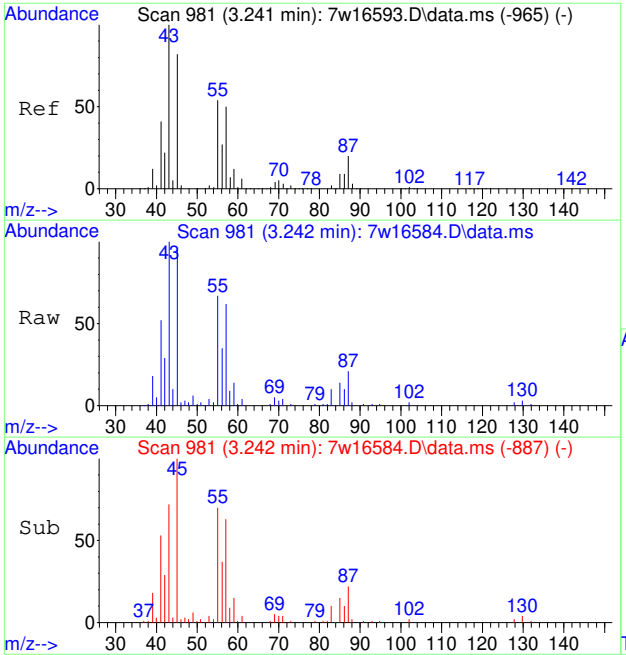


#37
TETRAHYDROFURAN
Concen: 0.48 PPBV
RT: 3.483 min Scan# 1056
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 2906

Ion	Ratio	Lower	Upper
72	100		
42	264.6	153.0	284.2
71	88.4	62.7	116.5

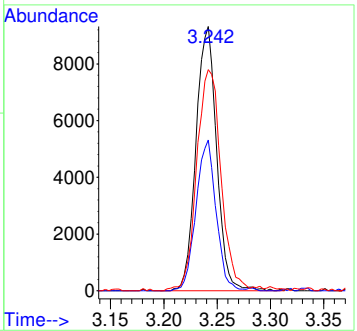


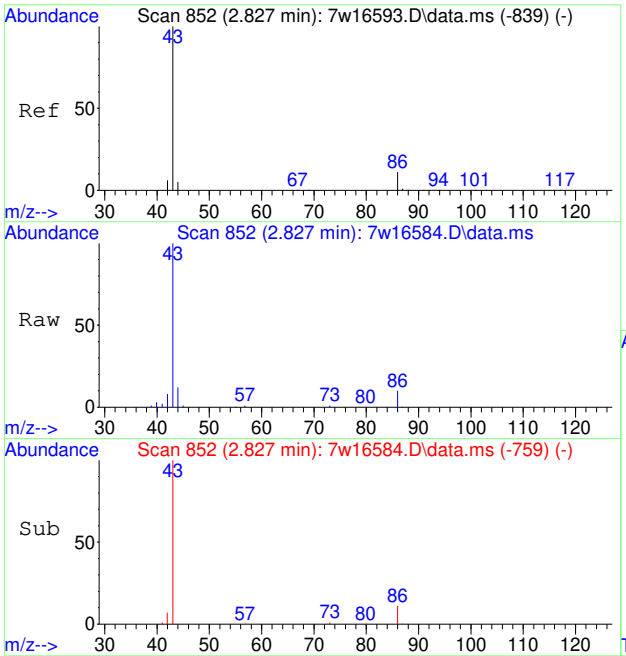


#38
HEXANE
Concen: 0.52 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 12572

Ion	Ratio	Lower	Upper
57	100		
56	55.7	37.3	69.3
41	98.4	86.7	161.1

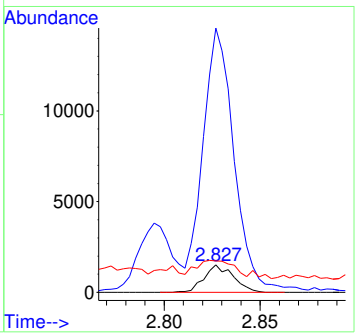


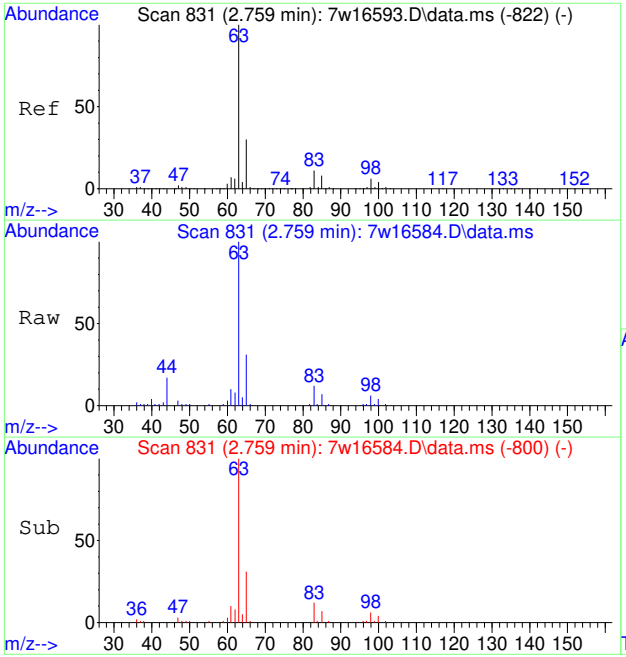


#39
VINYL ACETATE
Concen: 0.45 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 86 Resp: 1605

Ion	Ratio	Lower	Upper
86	100		
43	1019.3	667.9	1240.3
44	95.6	32.7	60.7#

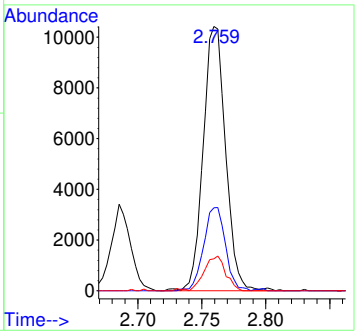


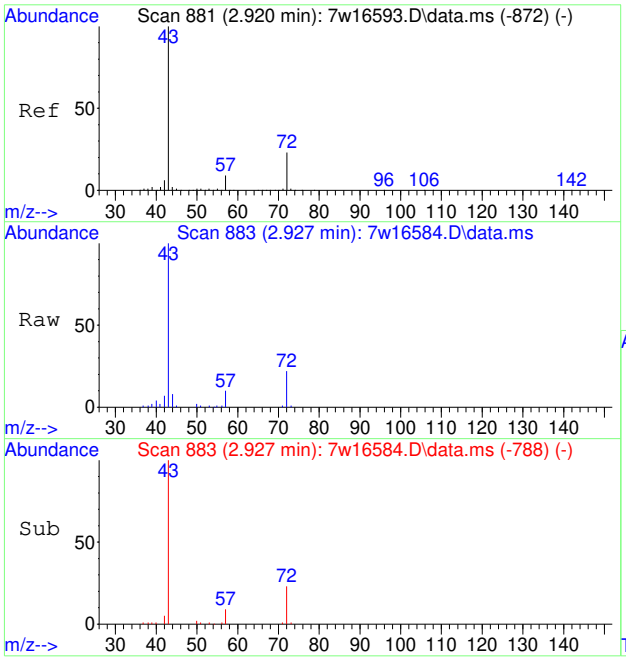


#40
1,1-DICHLOROETHANE
Concen: 0.50 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 12723

Ion	Ratio	Lower	Upper
63	100		
65	30.9	21.8	40.6
83	12.8	10.6	19.6

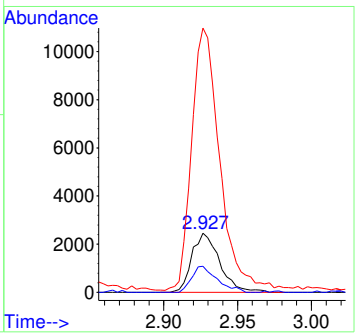


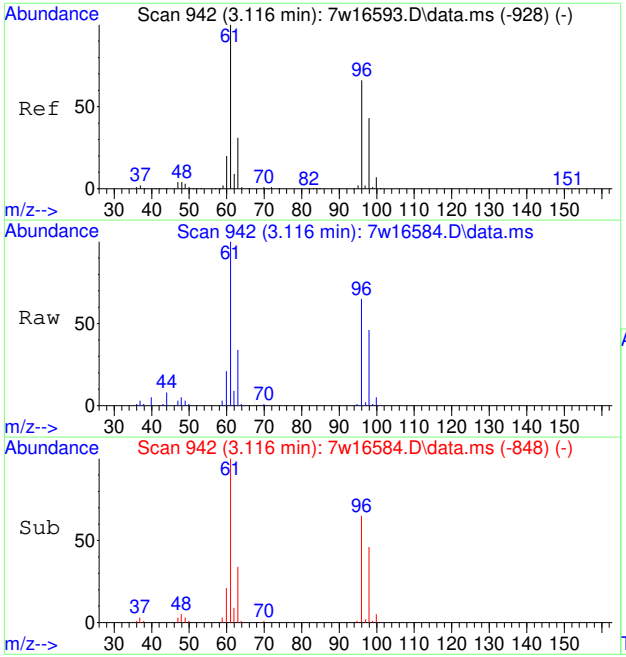


#41
METHYL ETHYL KETONE
Concen: 0.49 PPBV
RT: 2.927 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 3223

Ion	Ratio	Lower	Upper
72	100		
57	40.2	20.3	37.7#
43	453.6	282.8	525.2

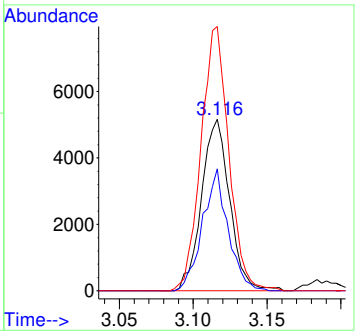


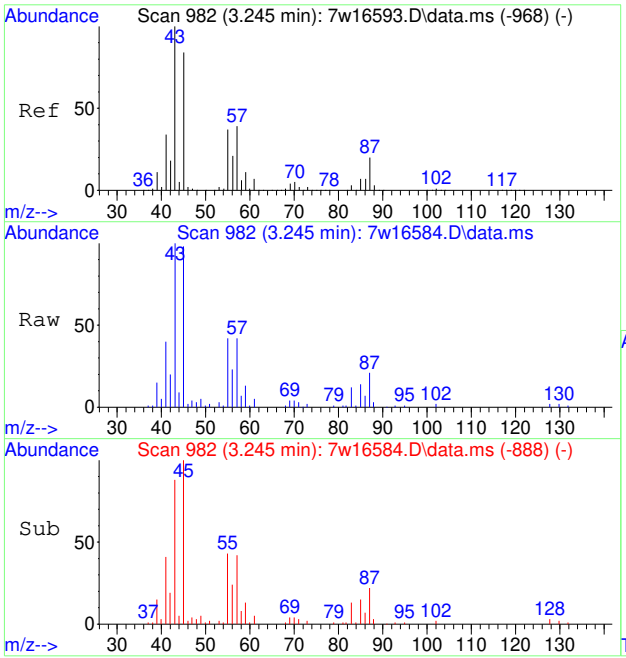


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6837

Ion	Ratio	Lower	Upper
96	100		
98	64.4	46.8	86.8
61	152.1	78.3	145.5#

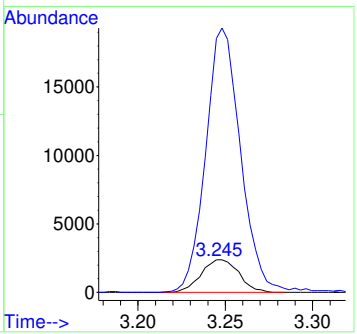


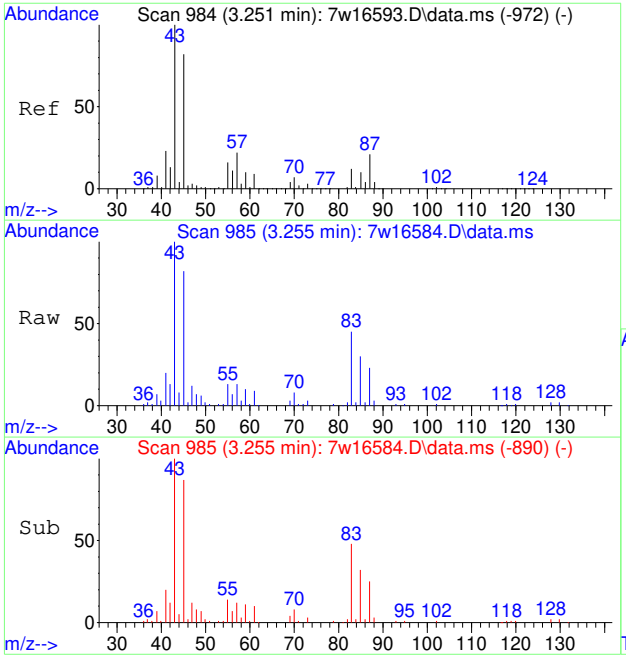


#43
DIISOPROPYL ETHER
Concen: 0.51 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 3577

Ion	Ratio	Lower	Upper
59	100		
45	758.7	532.1	988.1

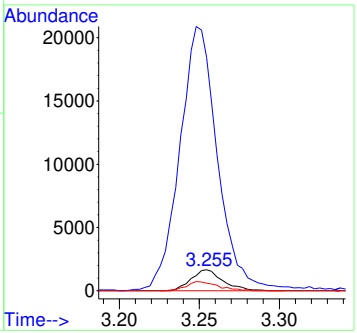


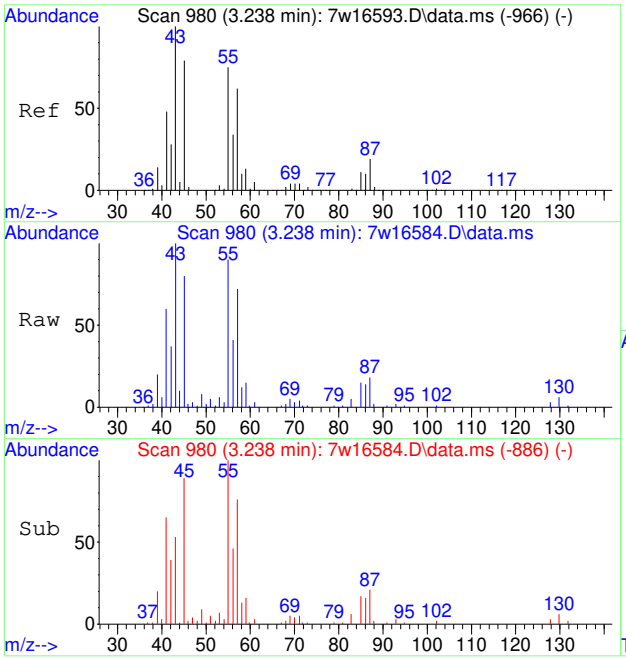


#44
ETHYL ACETATE
Concen: 0.47 PPBV
RT: 3.255 min Scan# 985
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 61 Resp: 2292

Ion	Ratio	Lower	Upper
61	100		
43	1515.1	1127.5	2093.9
88	43.9	36.2	67.2

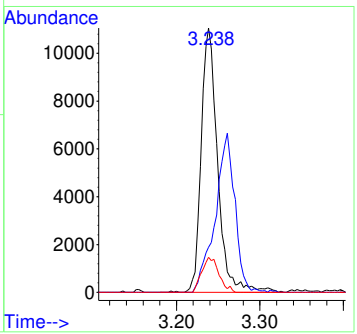


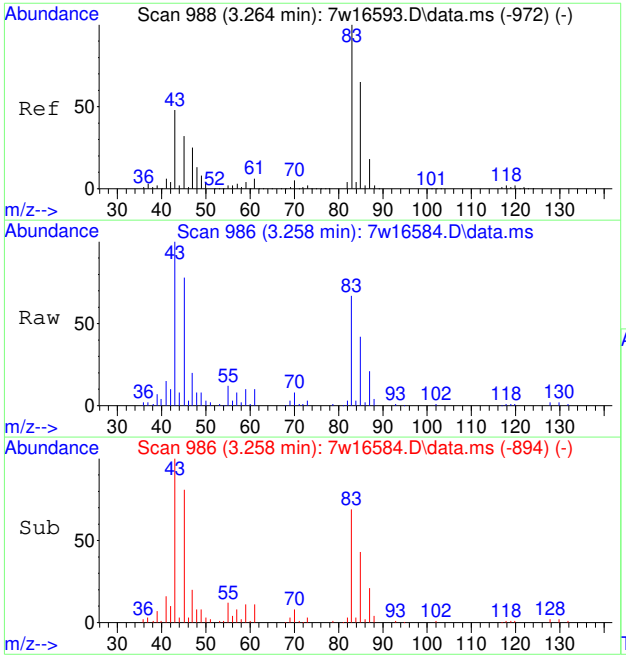


#45
METHYL ACRYLATE
Concen: 0.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 15089

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

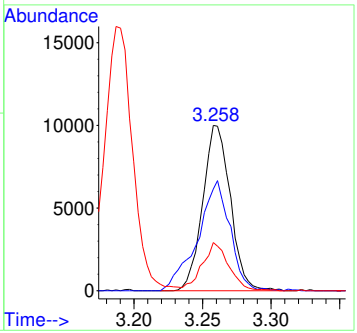


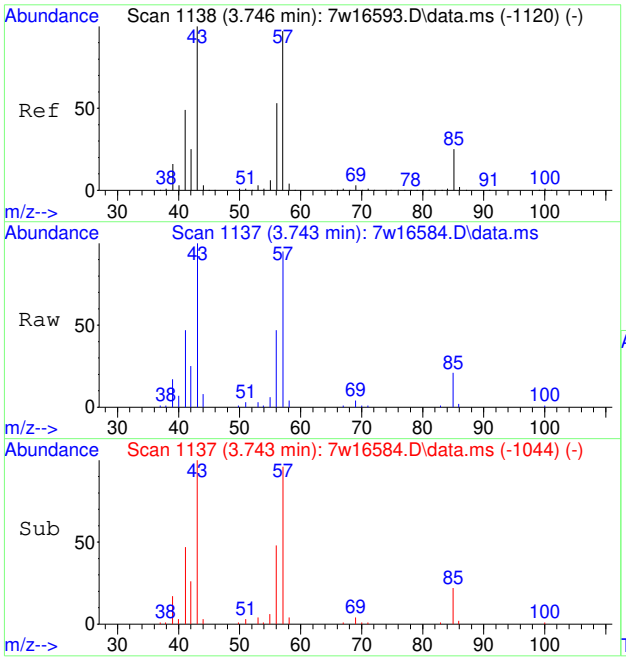


#46
CHLOROFORM
Concen: 0.53 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14039

Ion	Ratio	Lower	Upper
83	100		
85	78.2	54.6	101.4
47	28.4	17.9	33.3

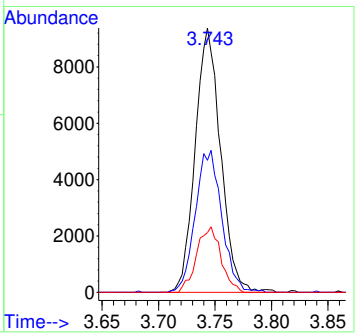


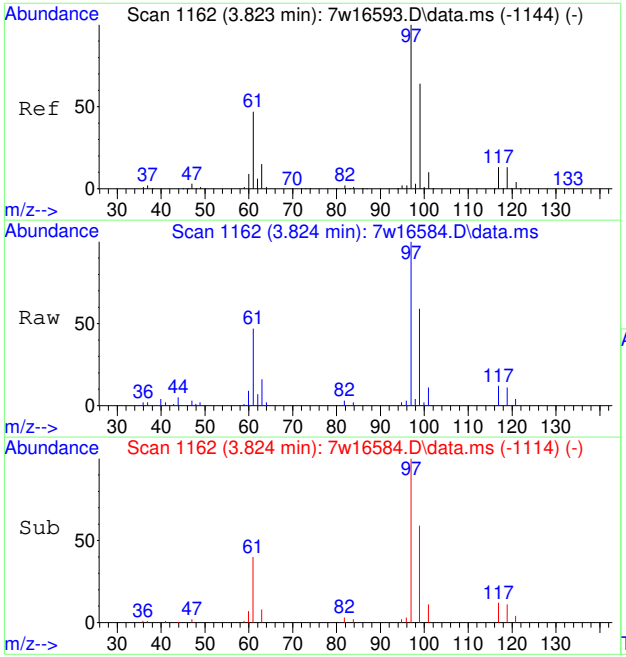


#47
2,4-DIMETHYLPENTANE
Concen: 0.53 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 14638

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	23.7	24.1	44.7#

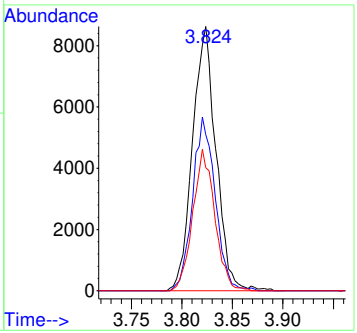


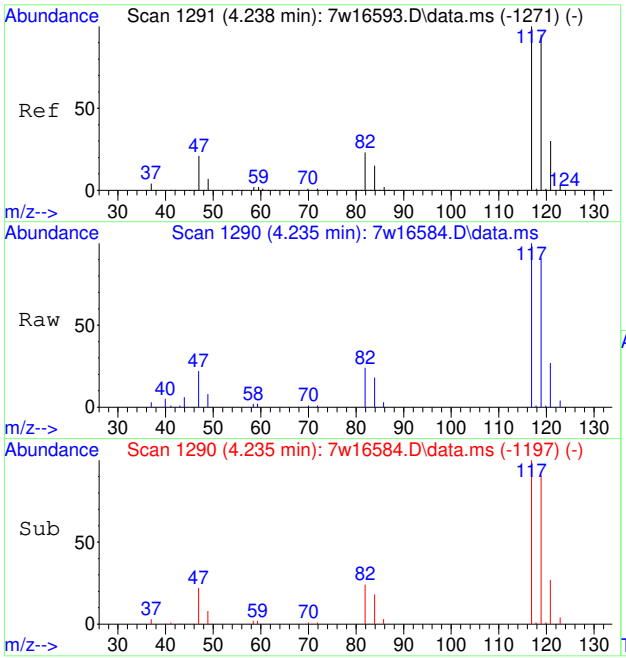


#48
1,1,1-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 97 Resp: 13952

Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.9	83.5
61	50.0	28.6	53.0

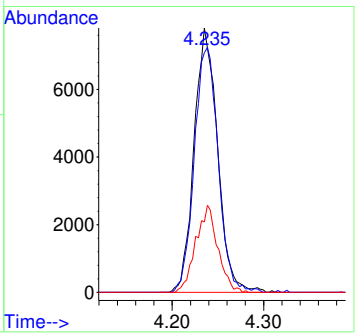


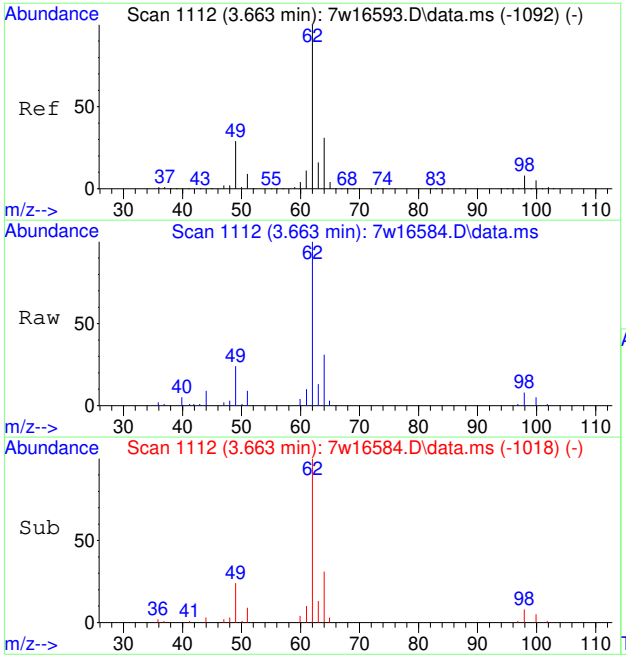


#49
CARBON TETRACHLORIDE
Concen: 0.47 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 13931

Ion	Ratio	Lower	Upper
117	100		
119	94.6	68.8	127.8
121	30.7	22.2	41.2

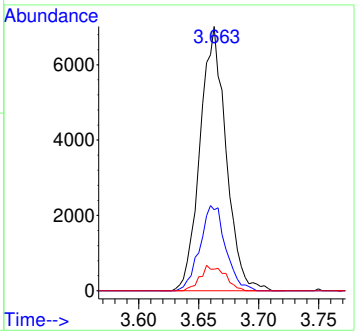


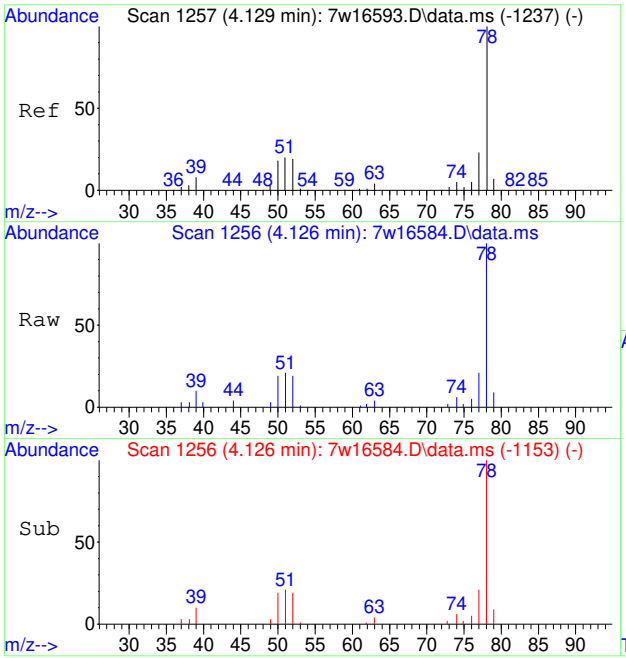


#50
1,2-DICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 10566

Ion	Ratio	Lower	Upper
62	100		
64	32.0	22.5	41.7
98	9.0	6.8	12.6

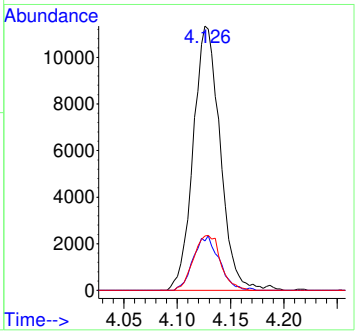


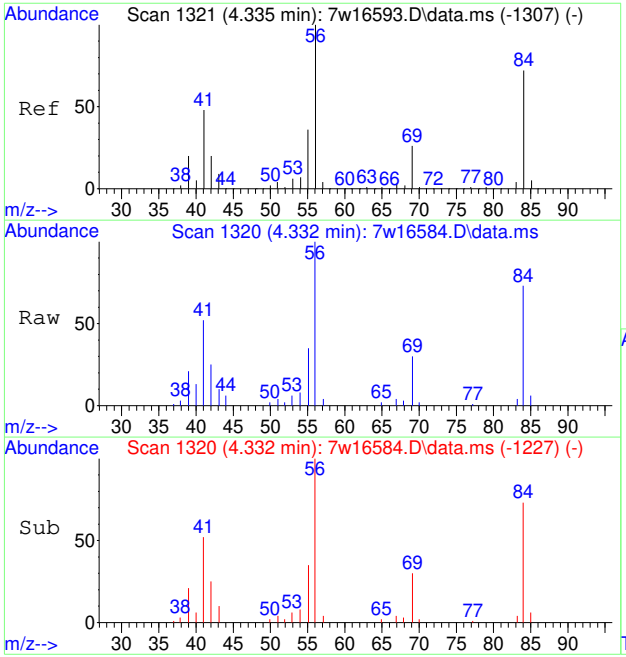


#51
BENZENE
Concen: 0.51 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 78 Resp: 19953

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	44.6
51	20.9	0.0	47.3

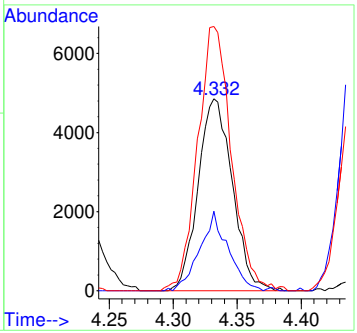


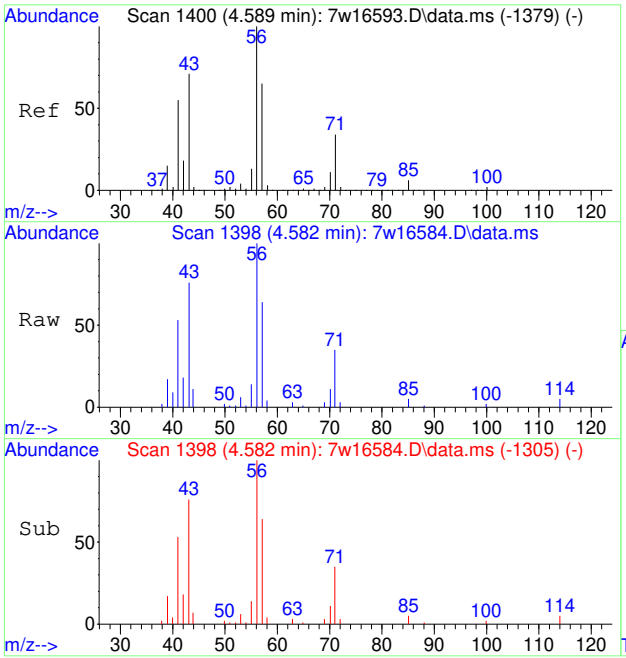


#53
CYCLOHEXANE
Concen: 0.51 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 9049

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	136.0	70.2	130.4#

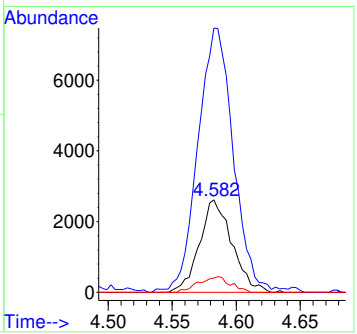


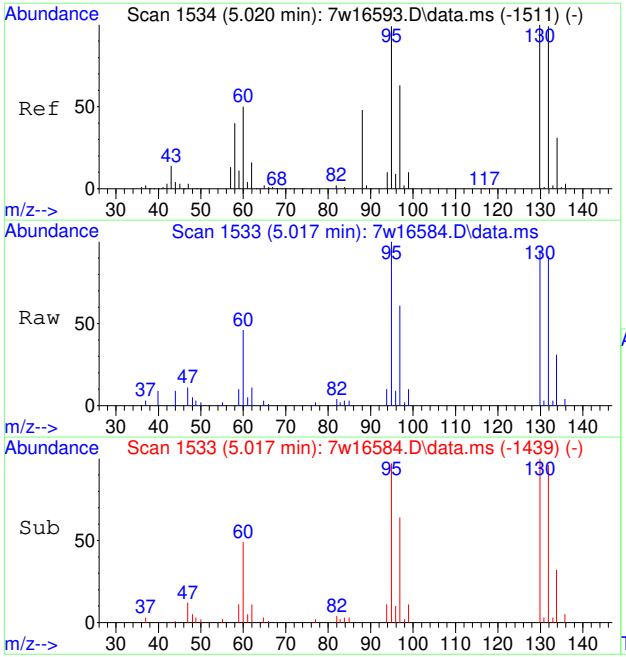


#54
2,3-DIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 71 Resp: 4648

Ion	Ratio	Lower	Upper
71	100		
56	311.5	171.4	318.4
85	16.7	12.6	23.4

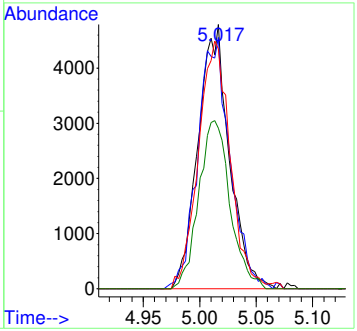


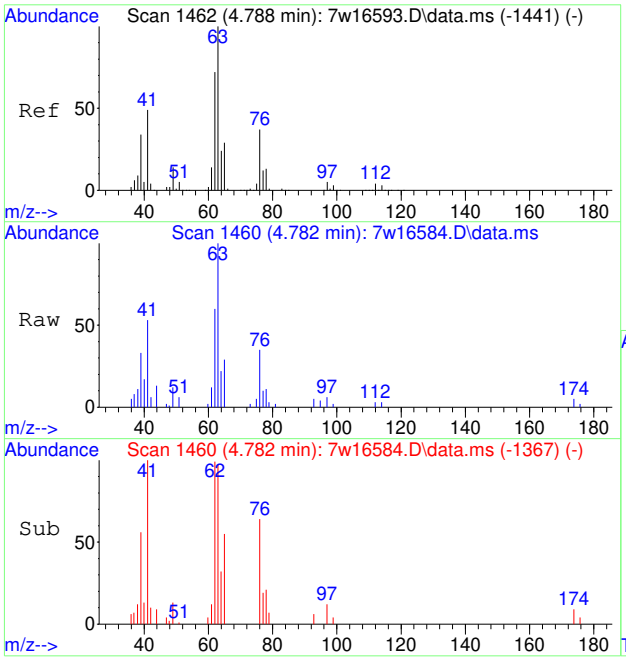


#55
TRICHLOROETHENE
Concen: 0.49 PPBV
RT: 5.017 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 95 Resp: 9226

Ion	Ratio	Lower	Upper
95	100		
130	97.8	85.9	159.5
132	95.6	79.4	147.4
97	63.7	45.0	83.6

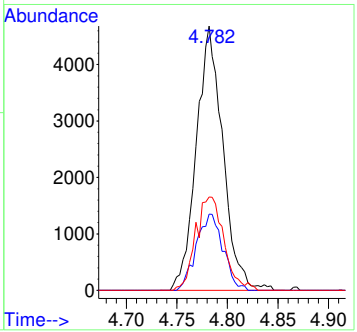


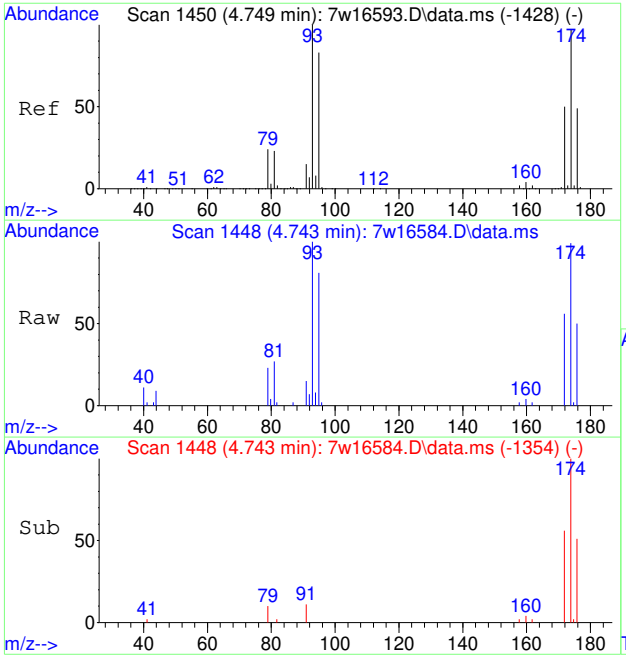


#56
1,2-DICHLOROPROPANE
Concen: 0.51 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 8549

Ion	Ratio	Lower	Upper
63	100		
65	29.1	22.6	42.0
76	37.7	31.8	59.0

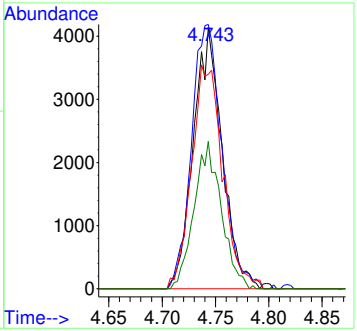


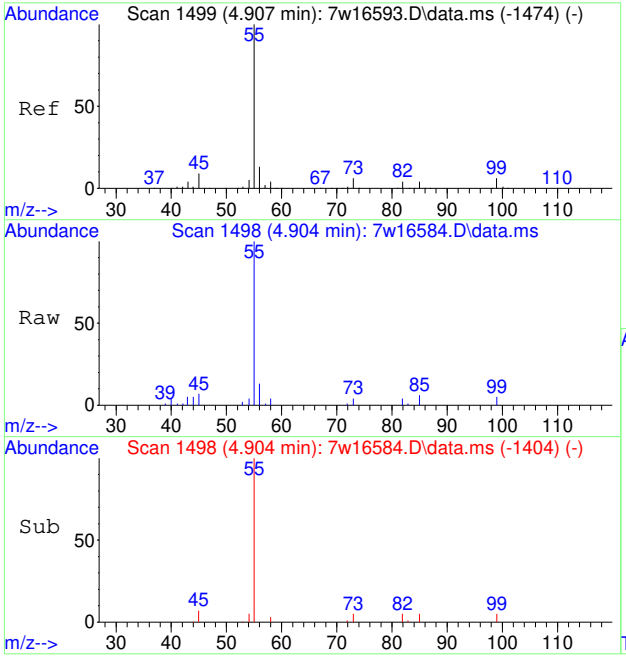


#57
DIBROMOMETHANE
Concen: 0.51 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:174 Resp: 7819

Ion	Ratio	Lower	Upper
174	100		
93	106.5	67.3	125.1
95	91.9	56.8	105.6
172	52.9	36.3	67.5

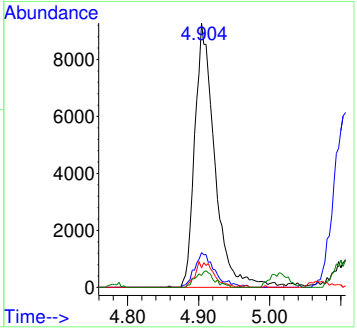


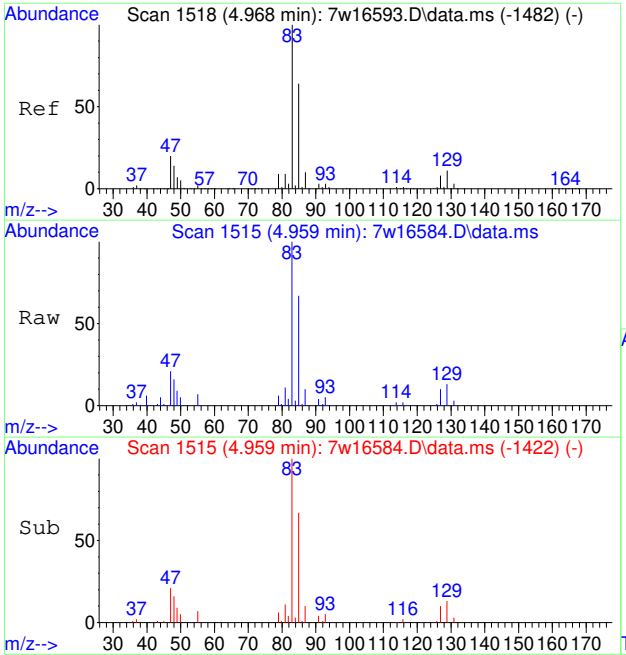


#58
ETHYL ACRYLATE
Concen: 0.48 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 18149

Ion	Ratio	Lower	Upper
55	100		
56	13.3	7.9	14.7
45	9.0	6.6	12.2
99	5.7	6.2	11.6#

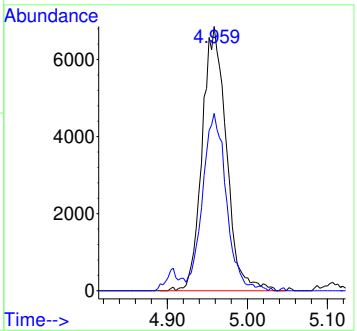


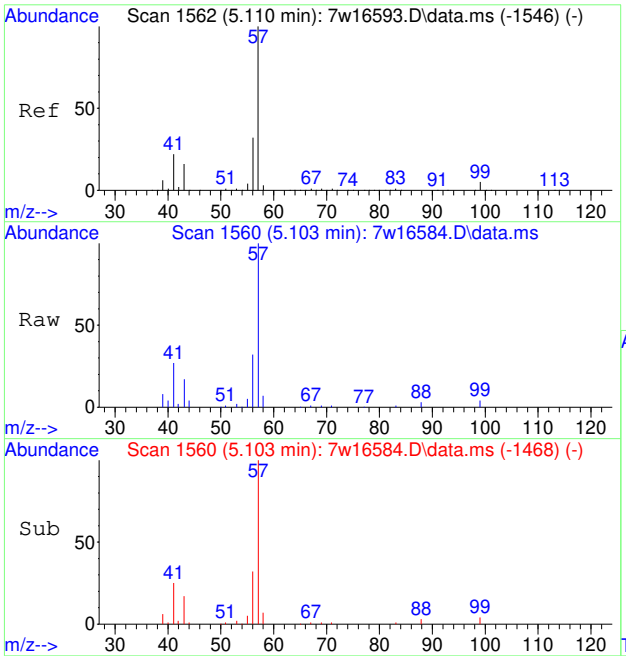


#59
BROMODICHLOROMETHANE
Concen: 0.46 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14412

Ion	Ratio	Lower	Upper
83	100		
85	65.8	44.9	83.5

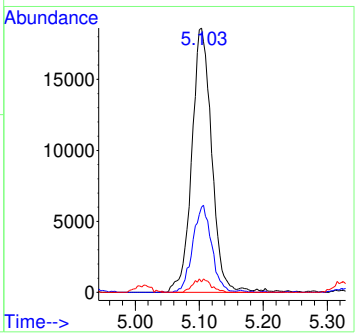


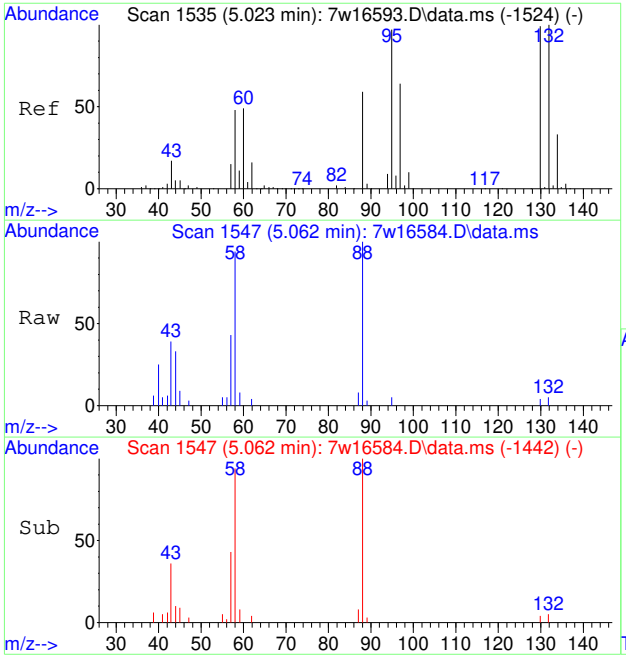


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 40435

Ion	Ratio	Lower	Upper
57	100		
56	31.0	24.4	45.2
99	4.6	5.2	9.6#

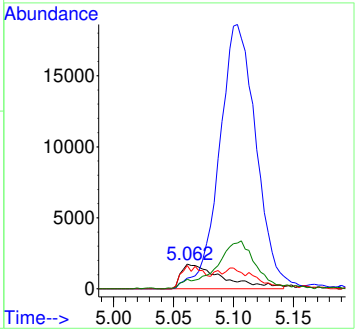


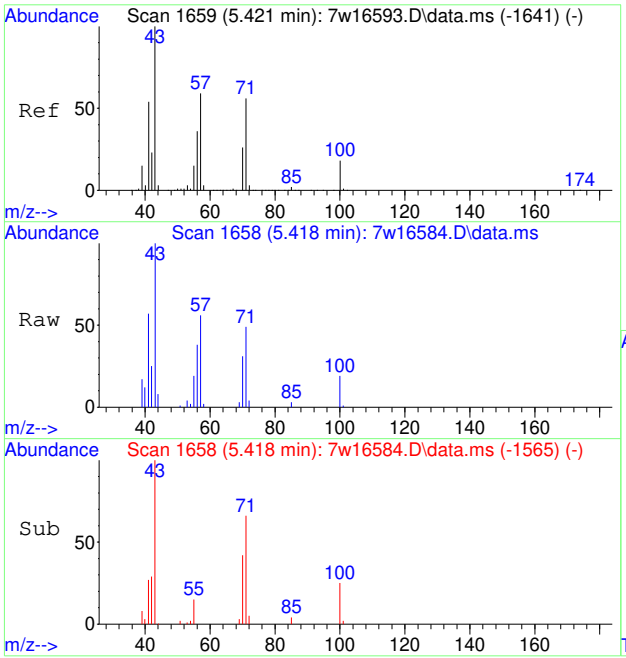


#61
1,4-DIOXANE
Concen: 0.45 PPBV
RT: 5.062 min Scan# 1547
Delta R.T. 0.039 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 88 Resp: 4245

Ion	Ratio	Lower	Upper
88	100		
57	0.0	13.1	24.3#
58	47.1	39.1	72.5
43	0.0	18.3	33.9#

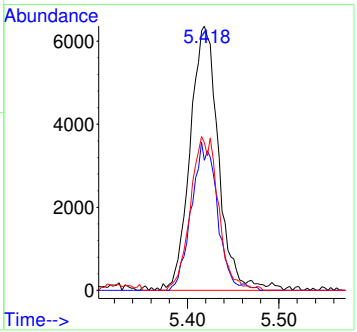


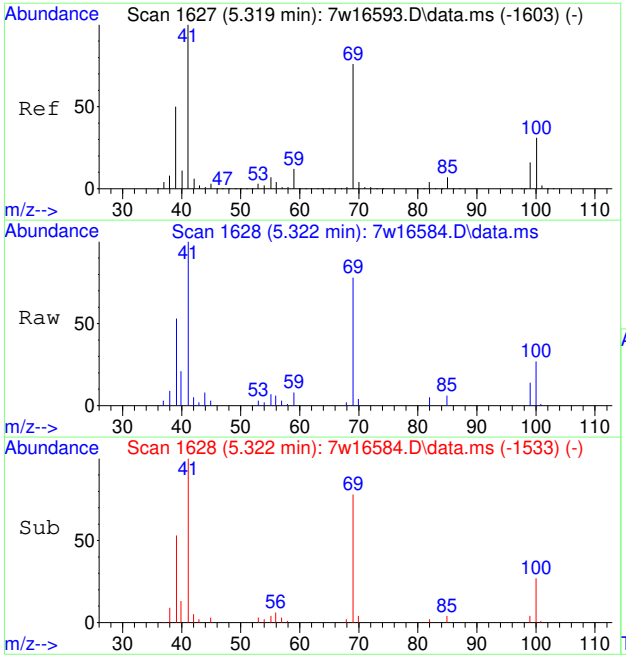


#62
HEPTANE
Concen: 0.52 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 13738

Ion	Ratio	Lower	Upper
43	100		
71	51.3	45.0	83.6
57	57.2	37.2	69.0

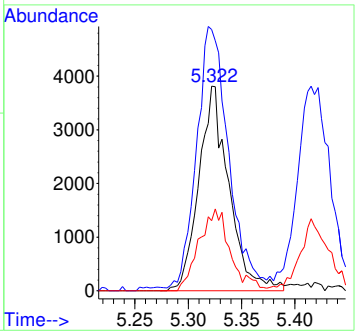


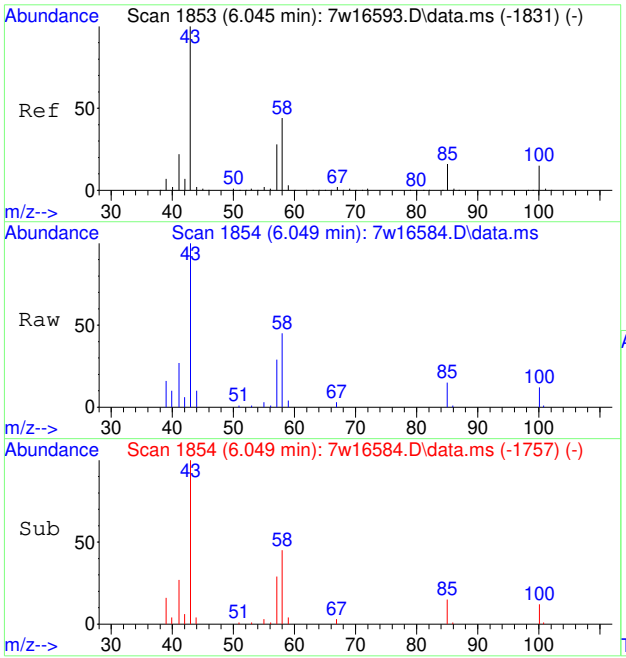


#63
METHYL METHACRYLATE
Concen: 0.49 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 7482

Ion	Ratio	Lower	Upper
69	100		
41	138.4	84.3	156.5
100	41.6	30.8	57.2

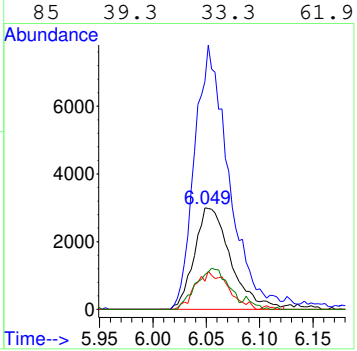


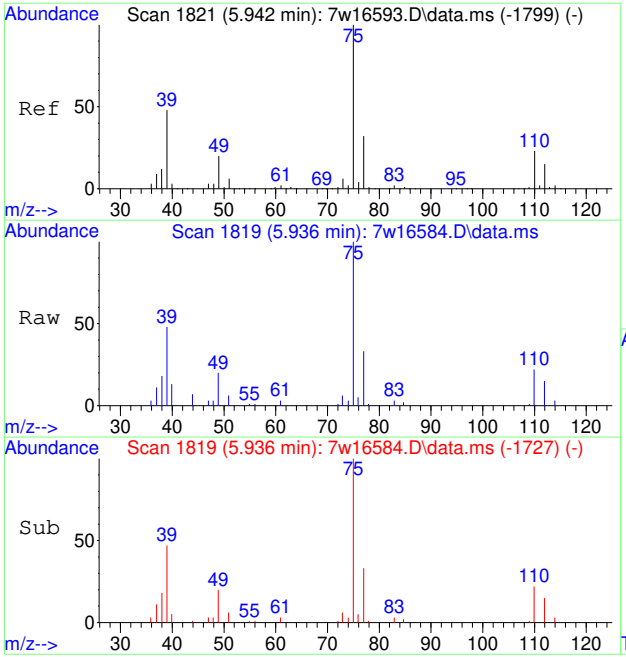


#64
METHYL ISOBUTYL KETONE
Concen: 0.46 PPBV
RT: 6.049 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 7119

Ion	Ratio	Lower	Upper
58	100		
43	253.5	193.8	360.0
100	34.7	32.8	60.8
85	39.3	33.3	61.9

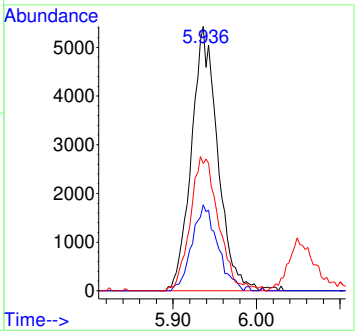


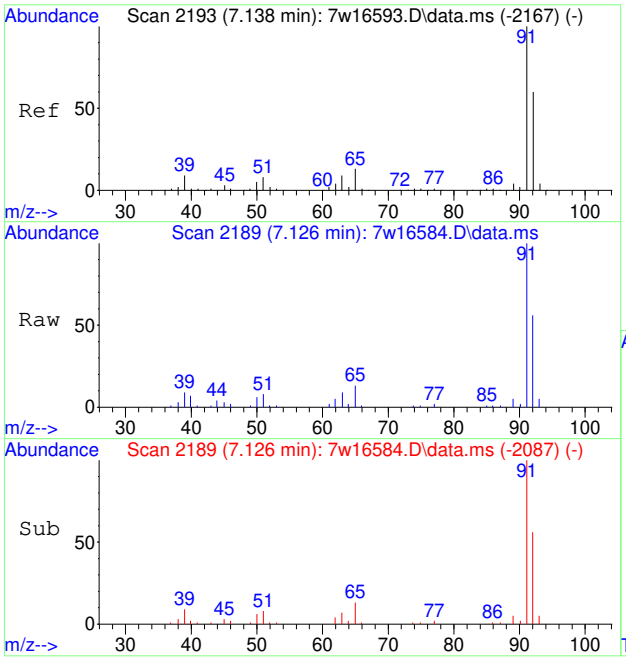


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.45 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 11946

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.0	40.8
39	54.5	38.5	71.5

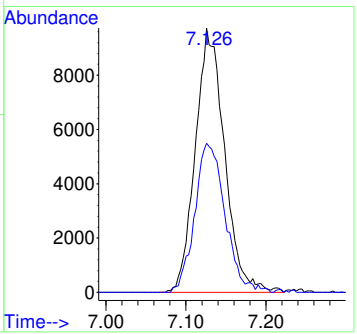


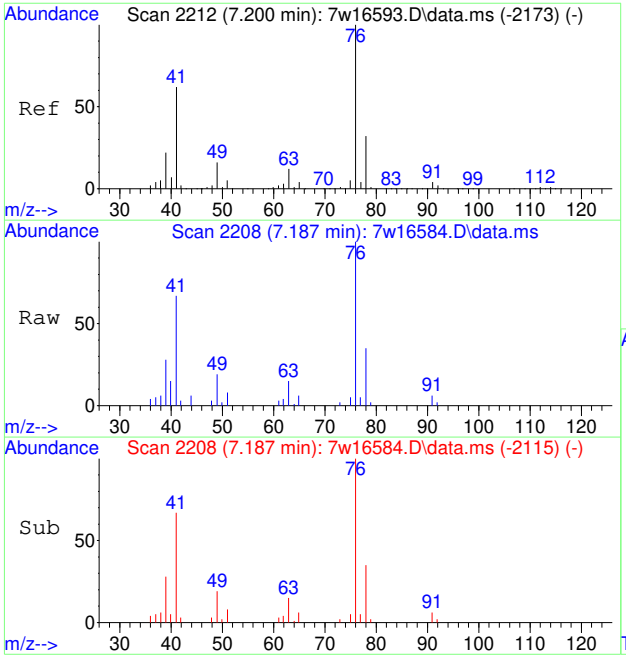


#66
TOLUENE
Concen: 0.51 PPBV
RT: 7.126 min Scan# 2189
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 24682

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

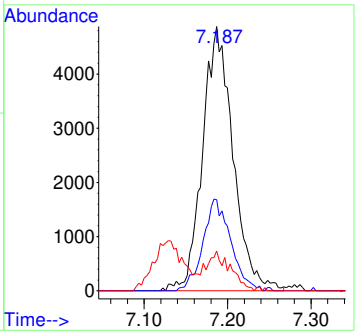


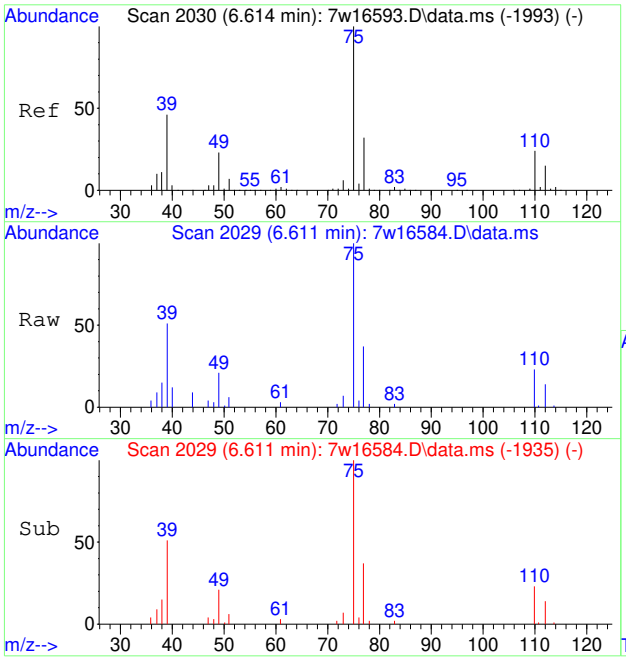


#67
1,3-DICHLOROPROPANE
Concen: 0.50 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 12380

Ion	Ratio	Lower	Upper
76	100		
78	31.6	22.1	41.1
63	13.2	8.0	14.8

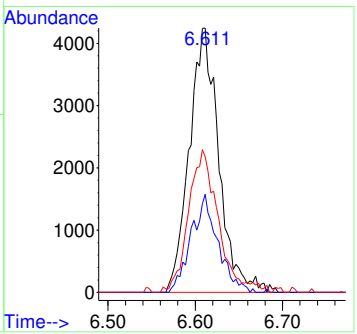


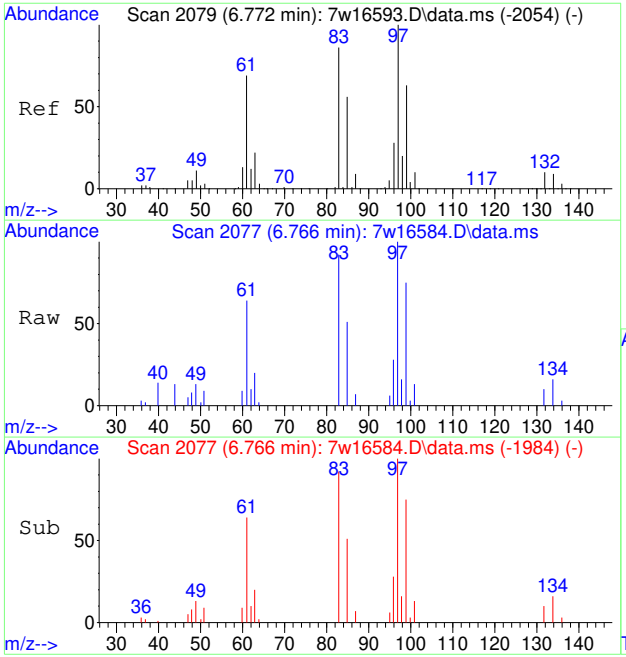


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.41 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 10011

Ion	Ratio	Lower	Upper
75	100		
77	33.6	22.5	41.7
39	55.1	37.2	69.0

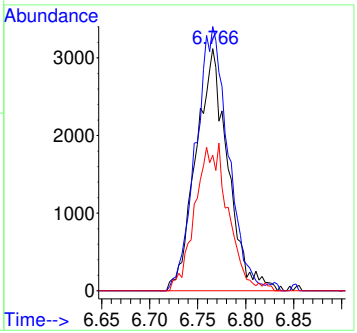


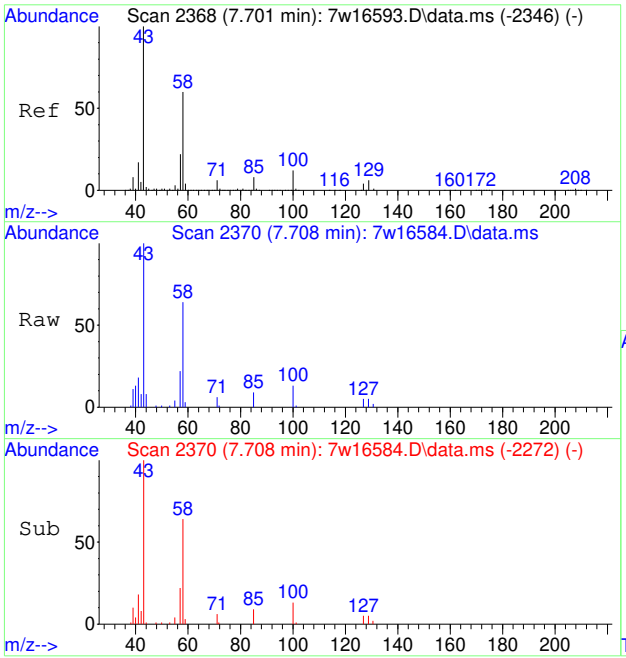


#69
1,1,2-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 7248

Ion	Ratio	Lower	Upper
83	100		
97	111.0	86.7	160.9
85	62.6	45.5	84.5

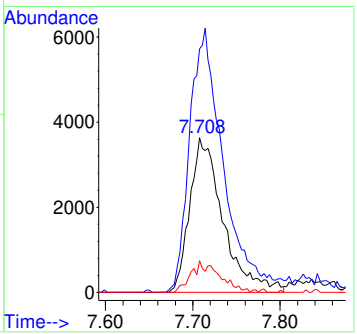


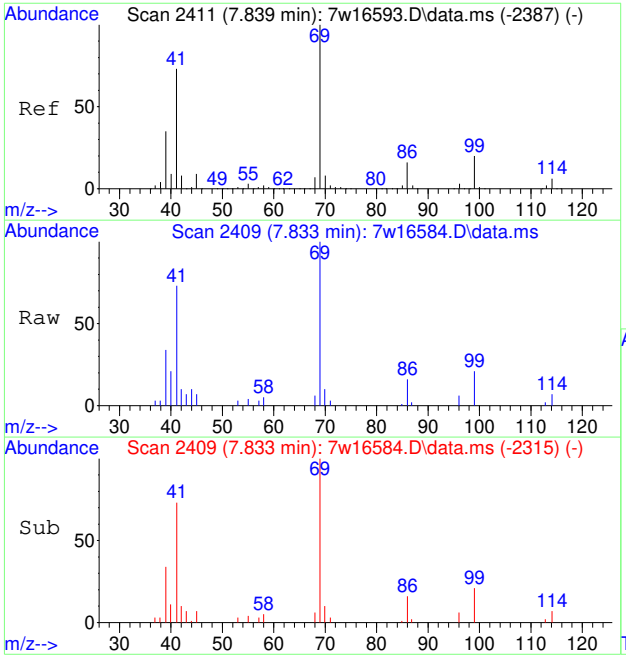


#70
2-HEXANONE
Concen: 0.47 PPBV
RT: 7.708 min Scan# 2370
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 9642

Ion	Ratio	Lower	Upper
58	100		
43	173.7	141.7	263.3
100	17.2	18.9	35.1#

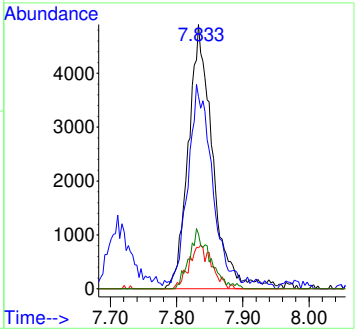


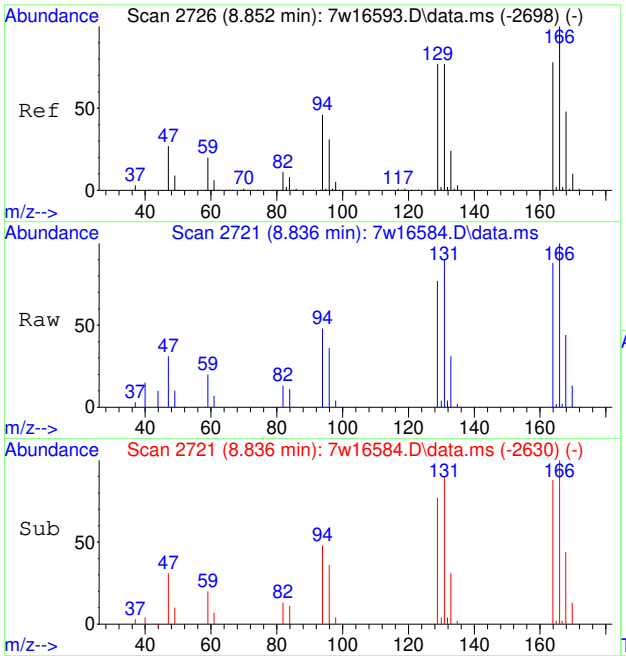


#71
ETHYL METHACRYLATE
Concen: 0.48 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 12576

Ion	Ratio	Lower	Upper
69	100		
41	81.1	49.3	91.6
86	15.5	11.6	21.6
99	19.4	13.4	24.8

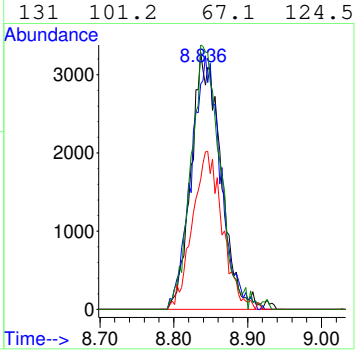


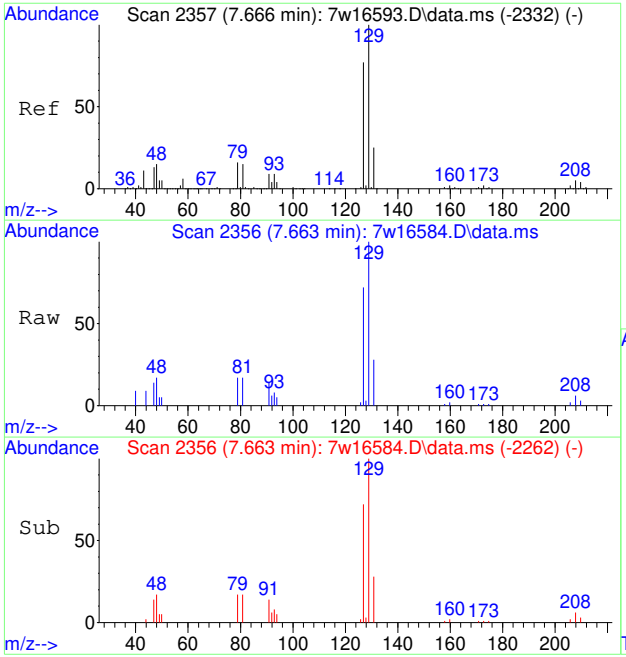


#72
TETRACHLOROETHENE
Concen: 0.52 PPBV
RT: 8.836 min Scan# 2721
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:164 Resp: 9191

Ion	Ratio	Lower	Upper
164	100		
129	97.9	69.7	129.5
168	61.9	43.4	80.6
131	101.2	67.1	124.5

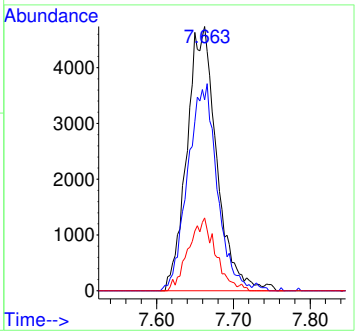


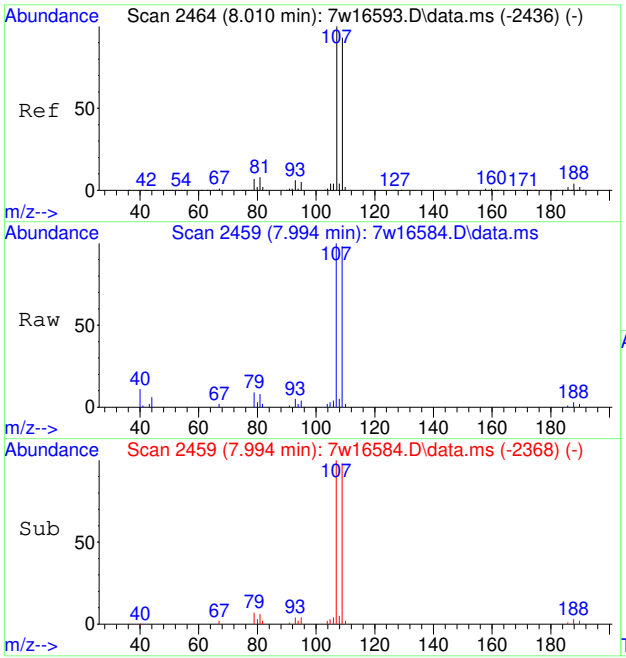


#73
DIBROMOCHLOROMETHANE
Concen: 0.43 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:129 Resp: 12752

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	25.4	16.9	31.3

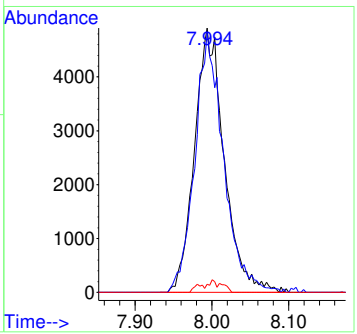


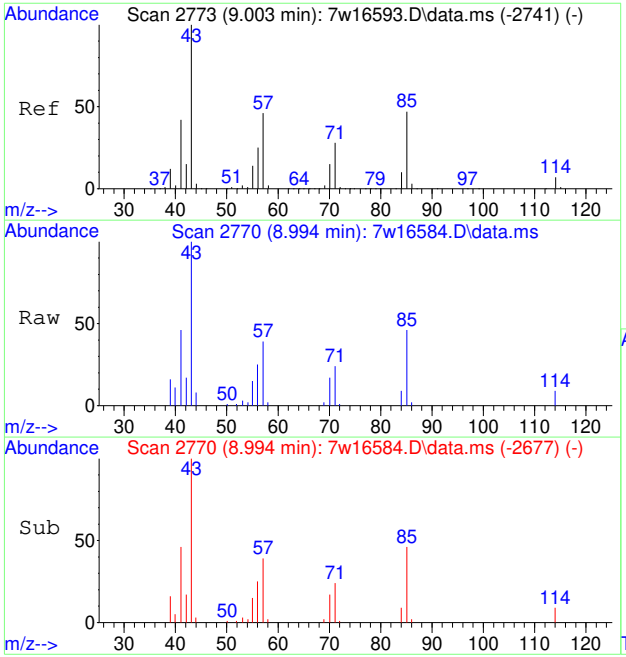


#74
1,2-DIBROMOETHANE
Concen: 0.52 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:107 Resp: 13213

Ion	Ratio	Lower	Upper
107	100		
109	95.1	65.7	122.1
188	3.1	2.4	4.4

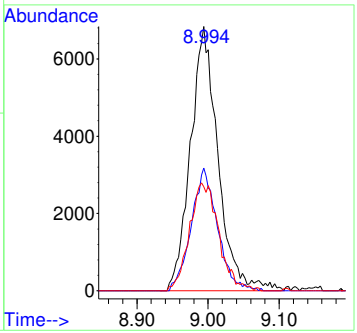


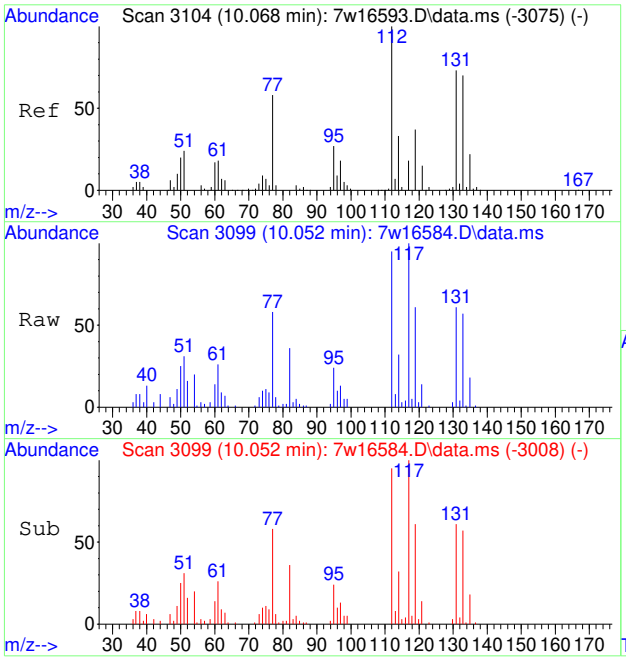


#75
OCTANE
Concen: 0.51 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 18440

Ion	Ratio	Lower	Upper
43	100		
85	44.3	36.5	67.9
57	43.3	27.6	51.2

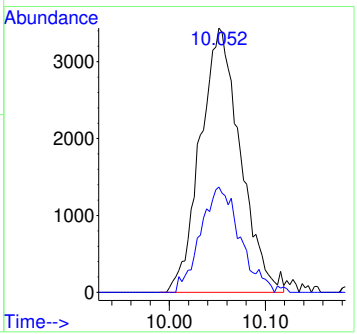


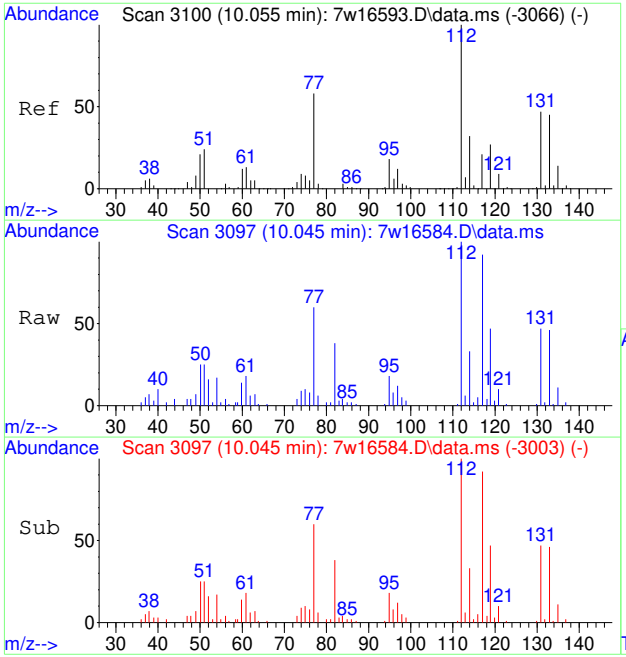


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.47 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:131 Resp: 9977

Ion	Ratio	Lower	Upper
131	100		
95	39.6	23.7	43.9

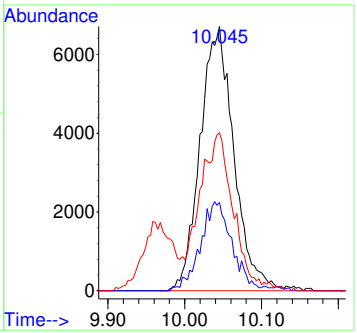


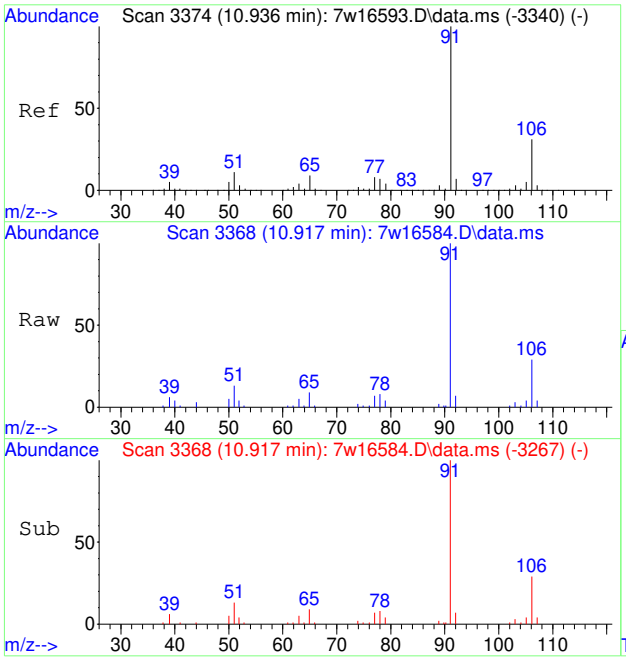


#78
CHLOROBENZENE
Concen: 0.52 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:112 Resp: 20418

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.7	34.4	63.8

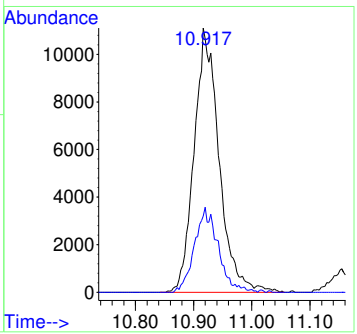


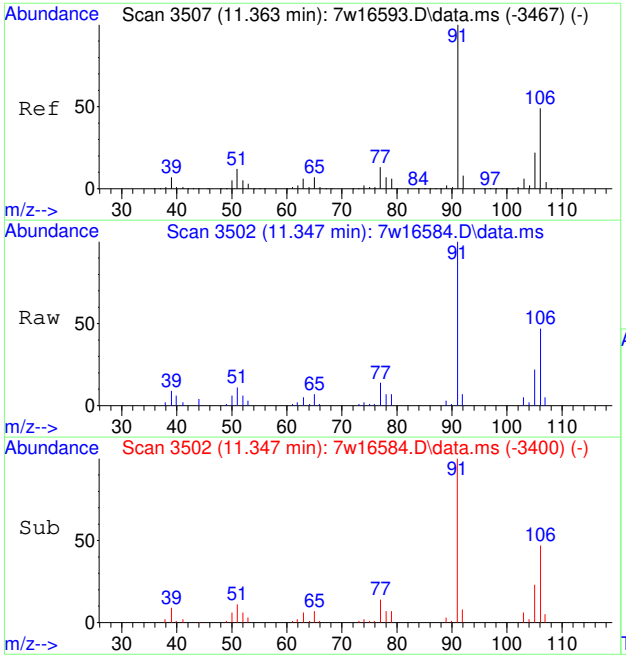


#79
ETHYLBENZENE
Concen: 0.52 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 33108

Ion	Ratio	Lower	Upper
91	100		
106	30.4	2.8	62.8

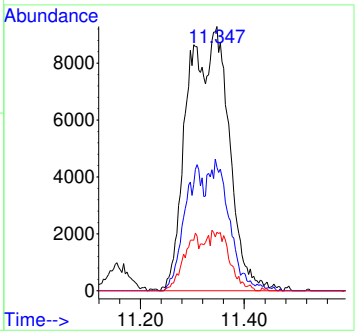


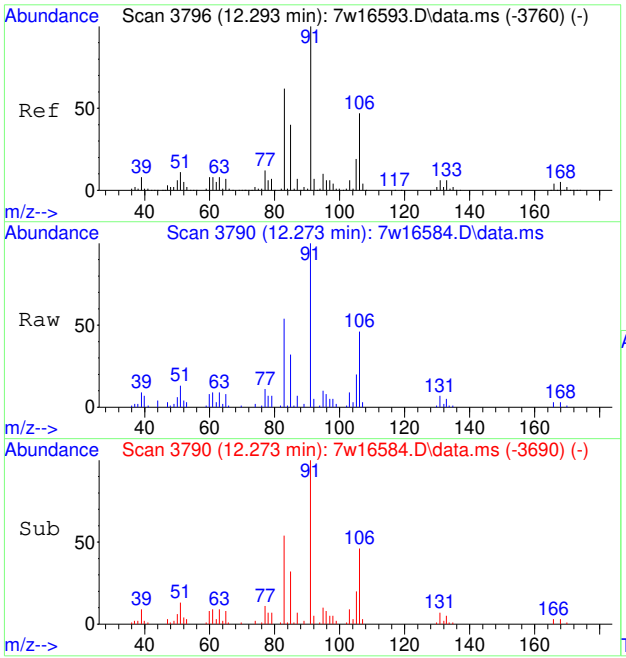


#80
M,P-XYLENE
Concen: 1.00 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 51511

Ion	Ratio	Lower	Upper
91	100		
106	27.3	0.0	58.7
105	12.4	0.0	43.2

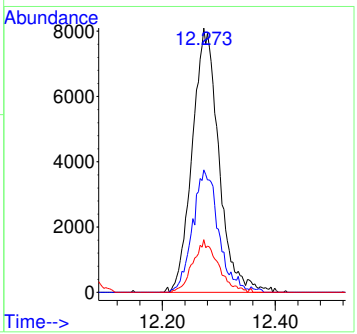


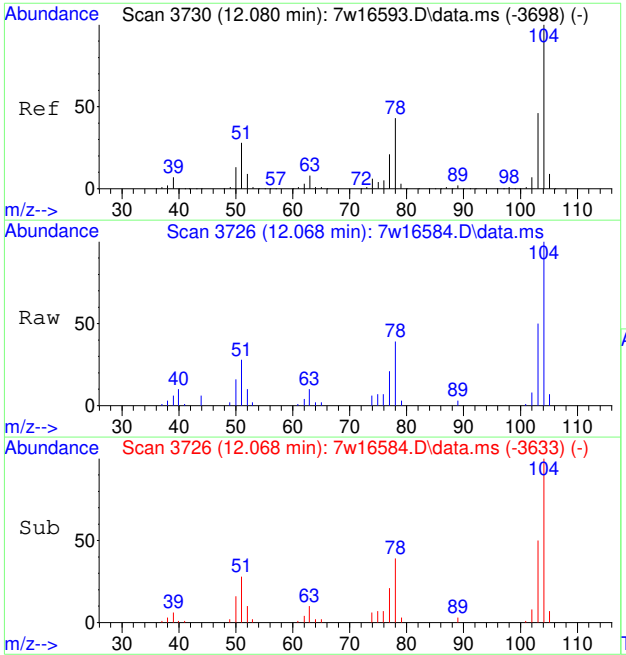


#81
O-XYLENE
Concen: 0.52 PPBV
RT: 12.273 min Scan# 3790
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 26468

Ion	Ratio	Lower	Upper
91	100		
106	46.3	34.1	63.3
105	19.9	14.6	27.2

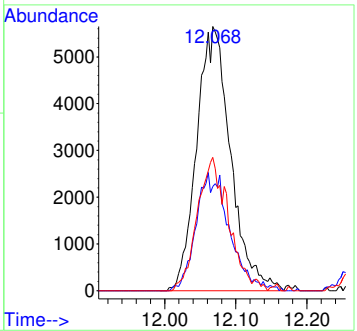


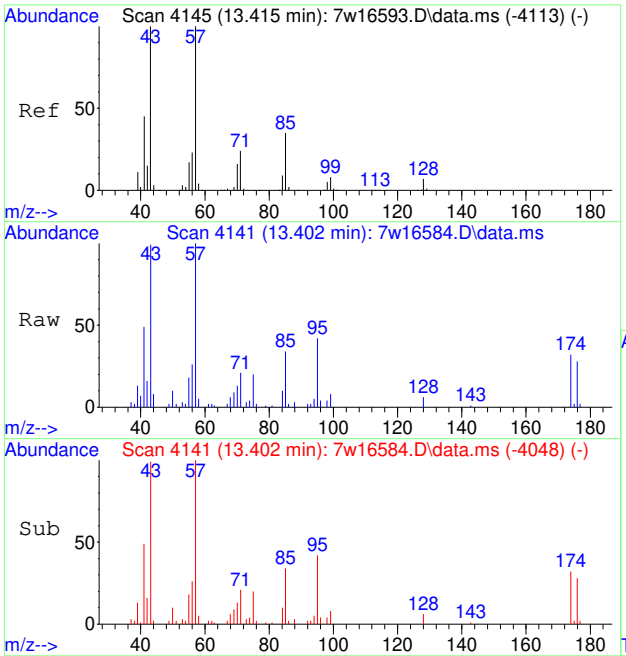


#82
STYRENE
Concen: 0.48 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:104 Resp: 18750

Ion	Ratio	Lower	Upper
104	100		
78	44.1	25.3	46.9
103	47.1	33.2	61.7

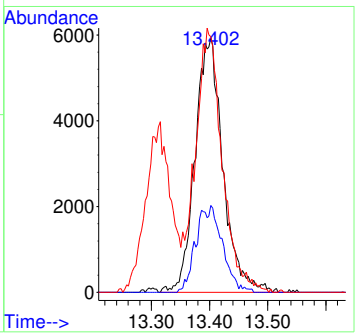


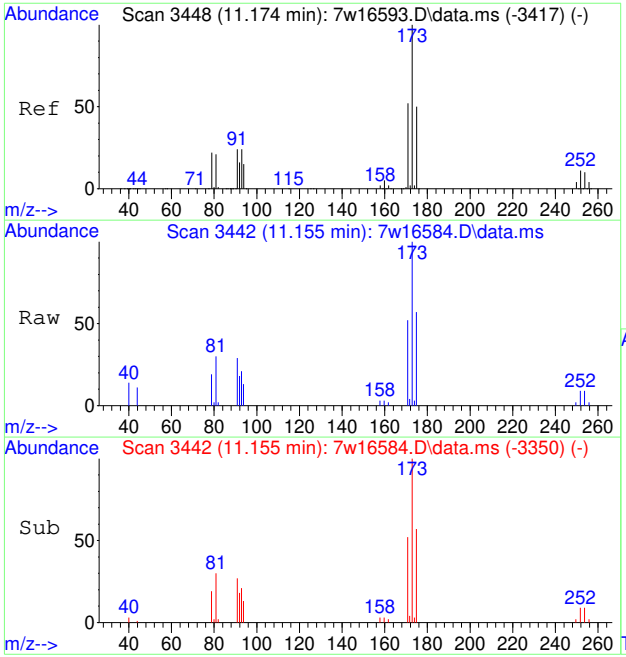


#83
NONANE
Concen: 0.51 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 19802

Ion	Ratio	Lower	Upper
43	100		
85	32.5	27.6	51.2
57	100.6	56.4	104.7

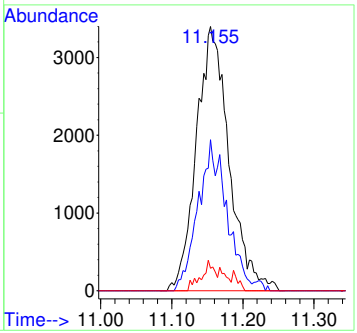


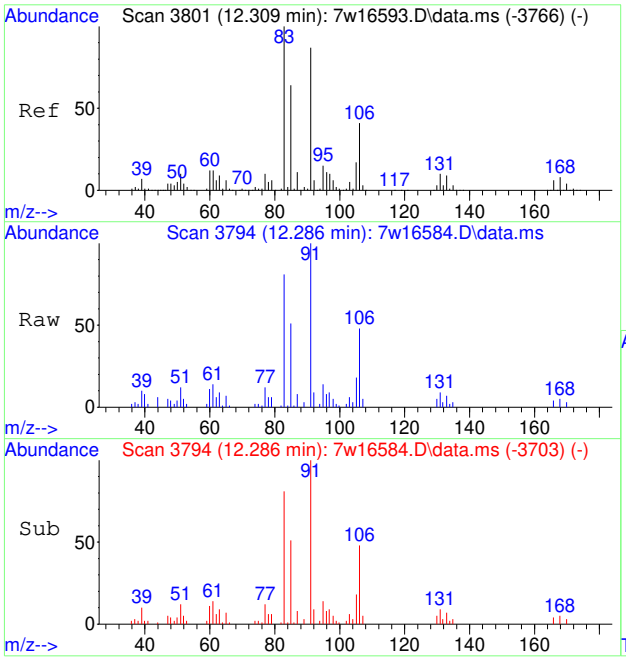


#84
BROMOFORM
Concen: 0.42 PPBV
RT: 11.155 min Scan# 3442
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:173 Resp: 10827

Ion	Ratio	Lower	Upper
173	100		
175	51.0	33.0	61.4
254	8.1	5.9	10.9

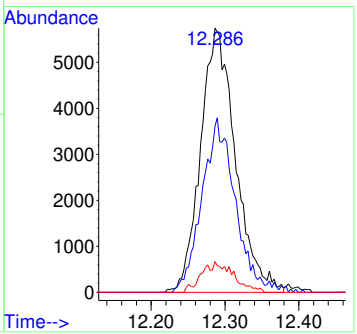


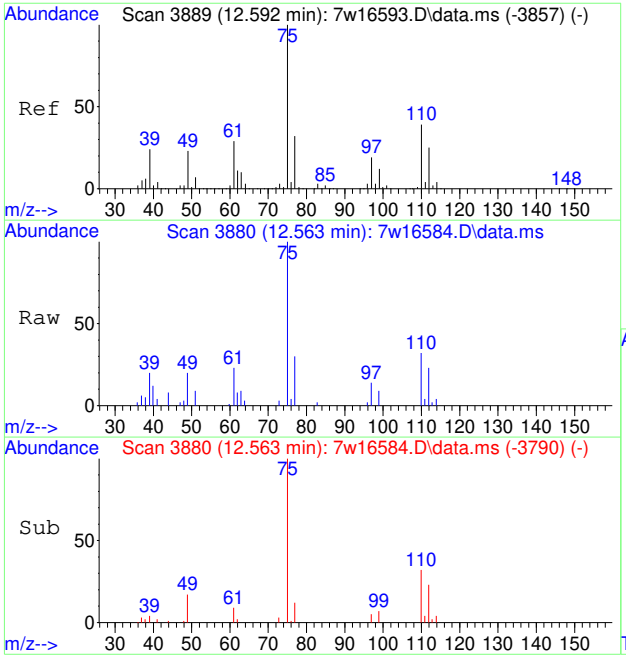


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.51 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 18876

Ion	Ratio	Lower	Upper
83	100		
85	63.1	44.6	82.8
131	10.6	8.0	14.8

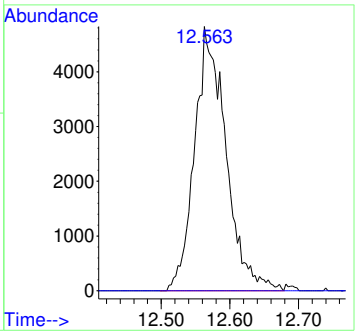


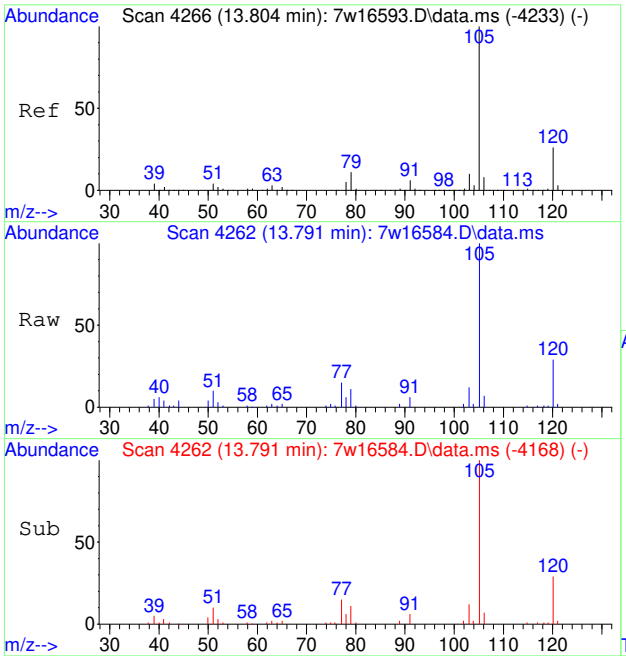


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.53 PPBV
RT: 12.563 min Scan# 3880
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 15262

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

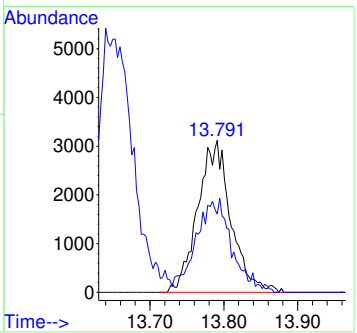


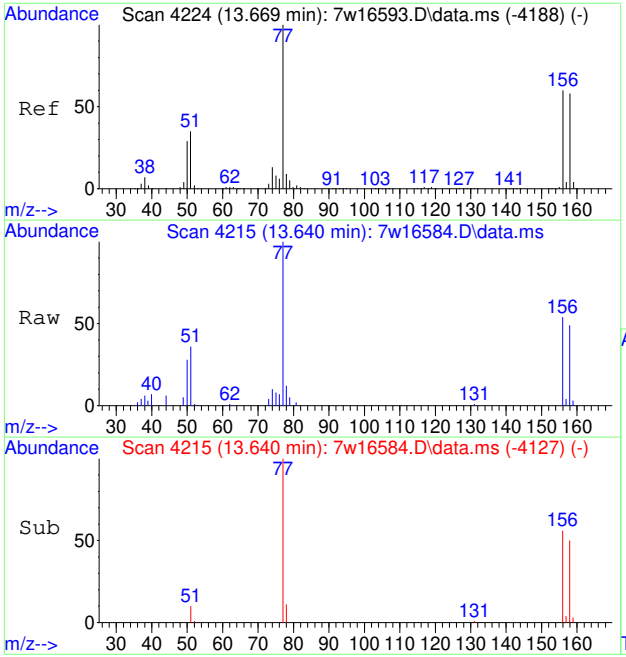


#88
ISOPROPYLBENZENE
Concen: 0.50 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9713

Ion	Ratio	Lower	Upper
120	100		
77	65.8	36.0	67.0

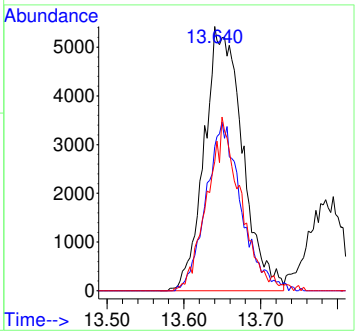


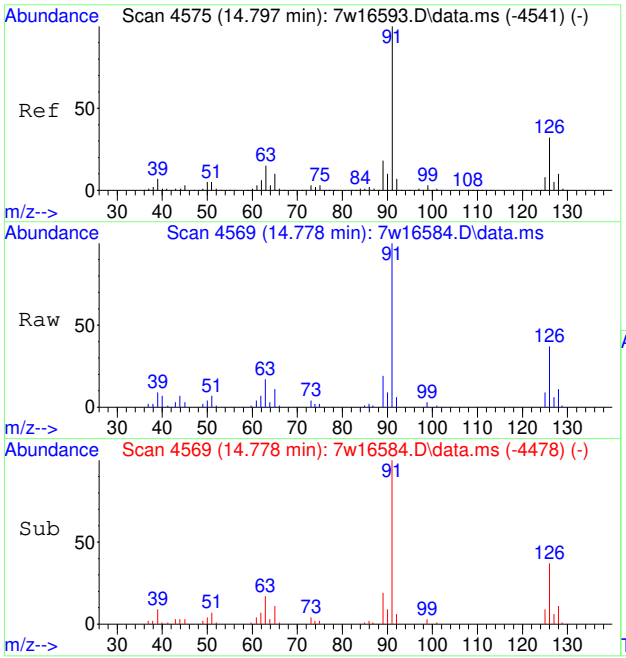


#89
BROMOBENZENE
Concen: 0.51 PPBV
RT: 13.640 min Scan# 4215
Delta R.T. -0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 77 Resp: 18640

Ion	Ratio	Lower	Upper
77	100		
156	59.5	57.9	107.5
158	57.9	55.7	103.5

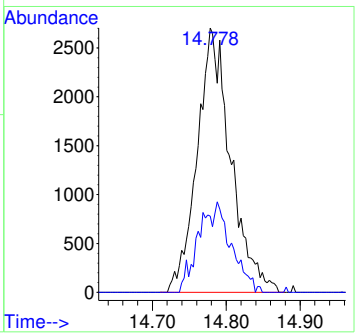


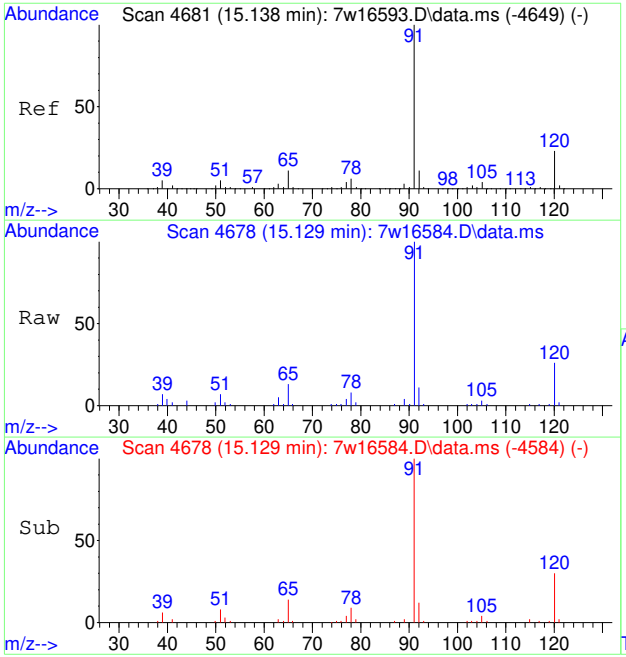


#90
2-CHLOROTOLUENE
Concen: 0.47 PPBV
RT: 14.778 min Scan# 4569
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:126 Resp: 8526

Ion	Ratio	Lower	Upper
126	100		
128	17.9	22.7	42.1#

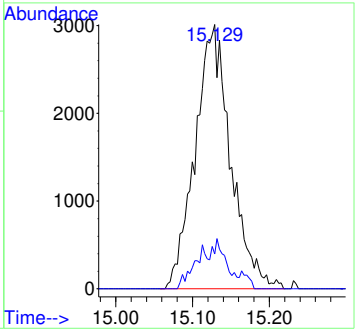


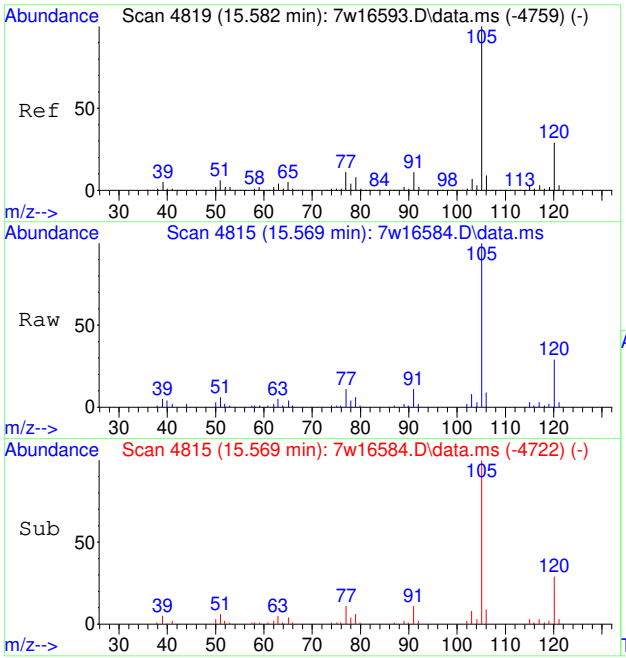


#91
N-PROPYLBENZENE
Concen: 0.46 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9669

Ion	Ratio	Lower	Upper
120	100		
105	15.8	10.6	19.6

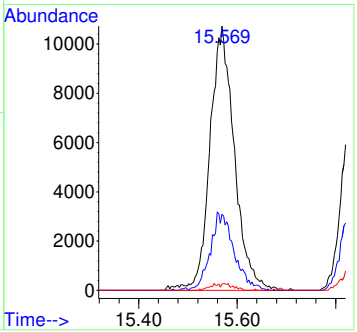


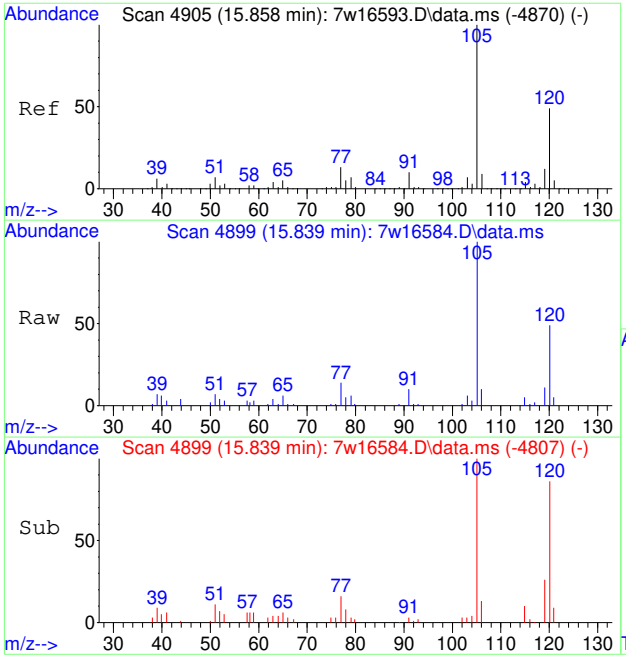


#92
4-ETHYLTOLUENE
Concen: 0.48 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 36862

Ion	Ratio	Lower	Upper
105	100		
120	0.0	21.8	40.4#
119	1.2	1.7	3.1#

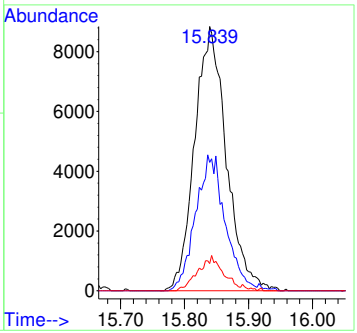


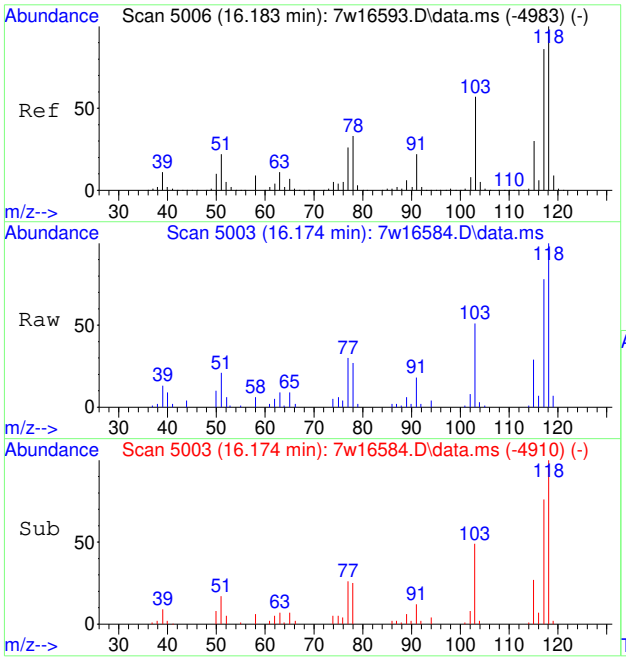


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.48 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30468

Ion	Ratio	Lower	Upper
105	100		
120	48.5	37.2	69.2
91	11.0	7.5	13.9

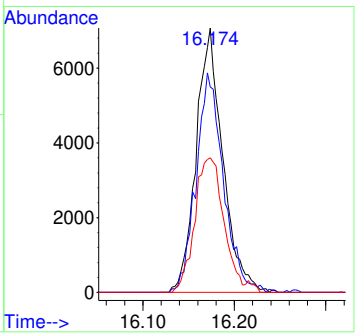


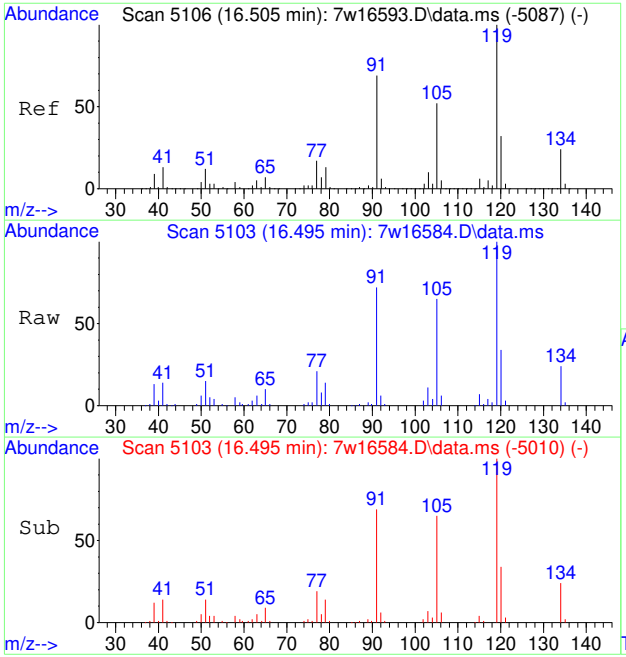


#94
ALPHA-METHYLSTYRENE
Concen: 0.44 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:118 Resp: 14307

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	56.7	36.2	67.2

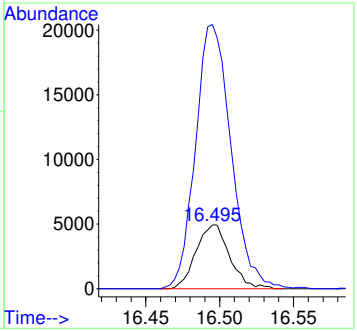


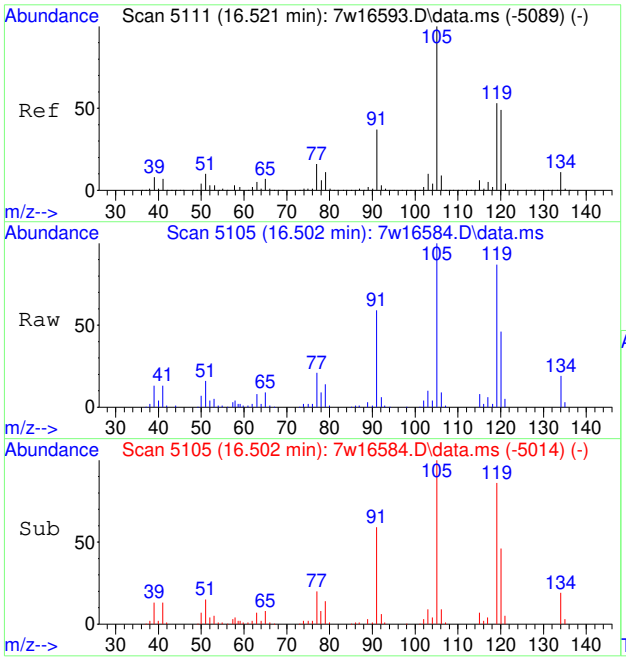


#95
TERT-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 7825

Ion	Ratio	Lower	Upper
134	100		
119	437.4	307.9	571.7

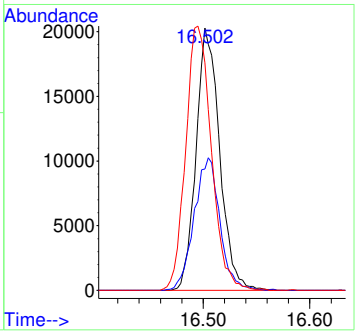


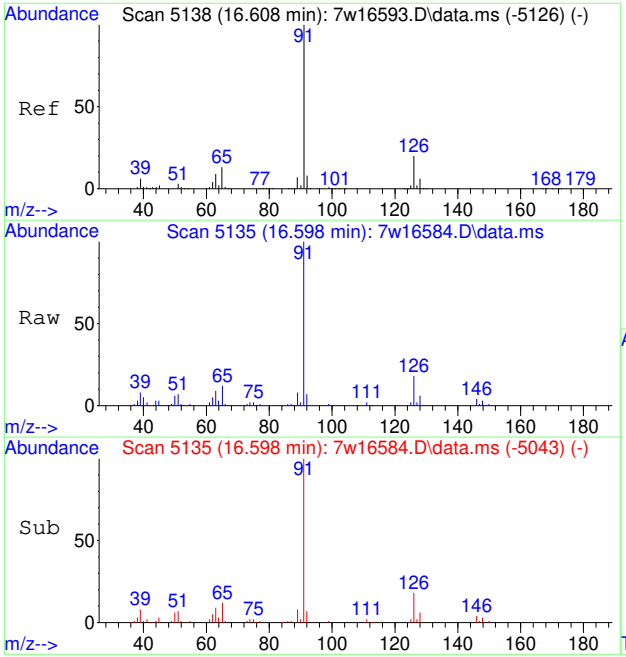


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.502 min Scan# 5105
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 31128

Ion	Ratio	Lower	Upper
105	100		
120	55.2	40.9	75.9
119	109.9	78.0	144.8

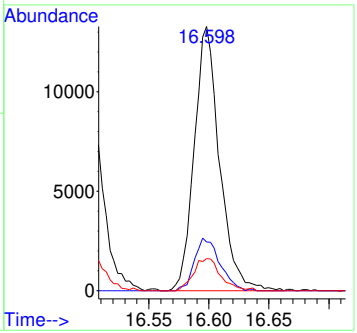


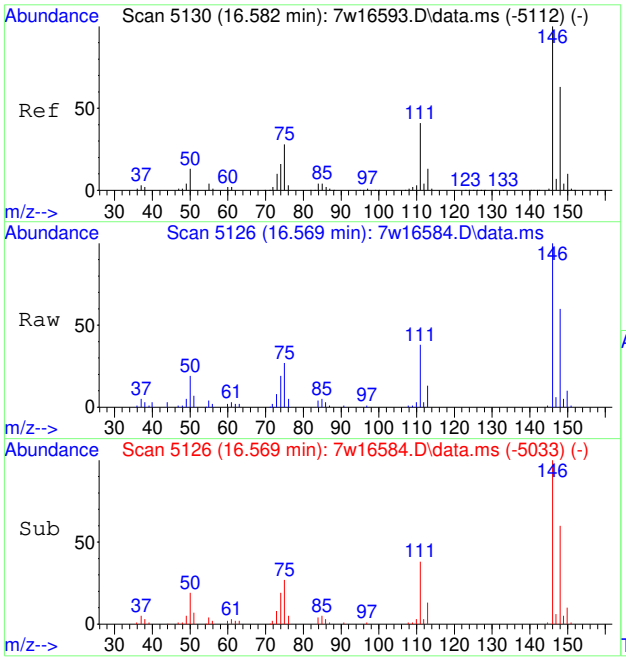


#97
BENZYL CHLORIDE
Concen: 0.35 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 19459

Ion	Ratio	Lower	Upper
91	100		
126	20.1	17.2	32.0
65	13.2	7.3	13.7

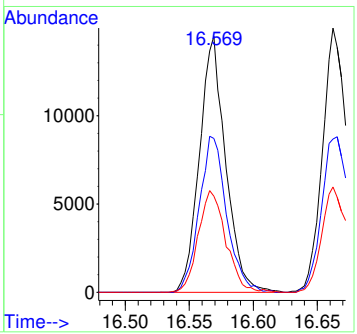


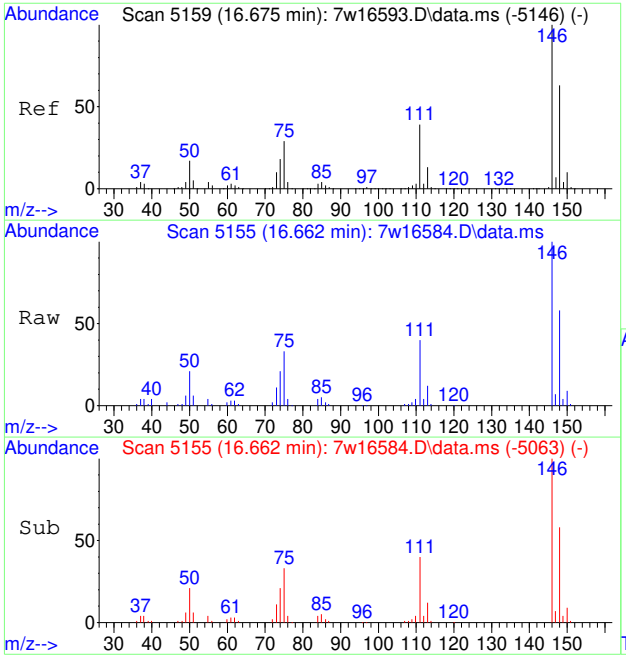


#98
M-DICHLOROBENZENE
Concen: 0.48 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20646

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	42.0	25.4	47.2

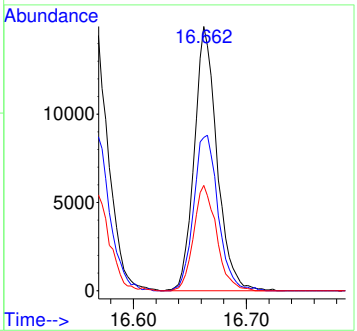


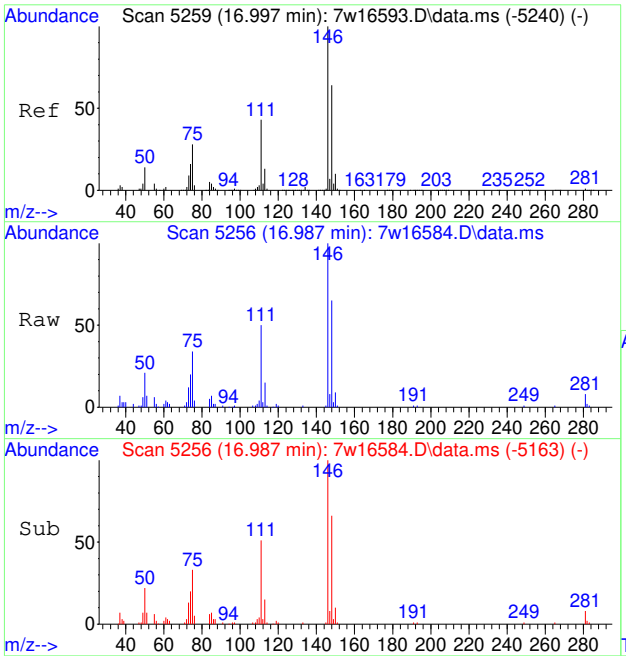


#99
P-DICHLOROBENZENE
Concen: 0.49 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20868

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	40.2	24.8	46.1

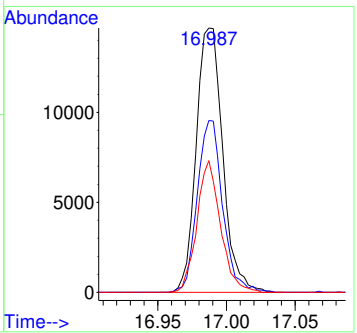


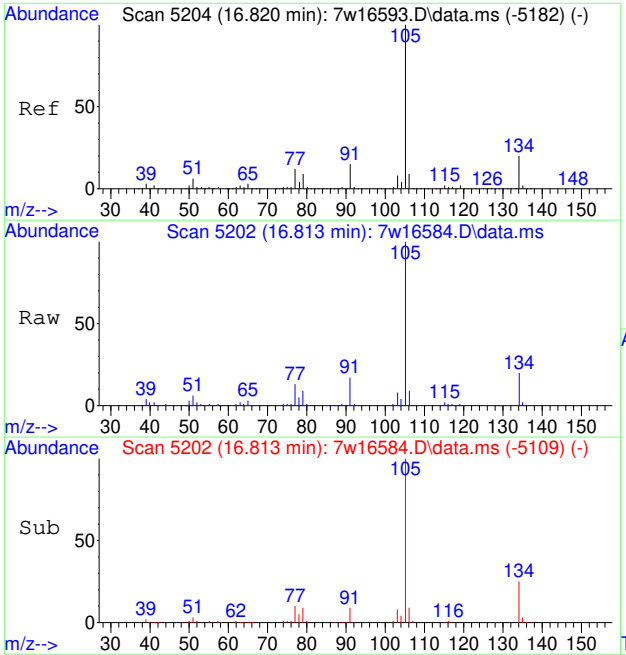


#100
O-DICHLOROBENZENE
Concen: 0.50 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 19799

Ion	Ratio	Lower	Upper
146	100		
148	62.1	44.6	82.8
111	44.3	26.9	50.1

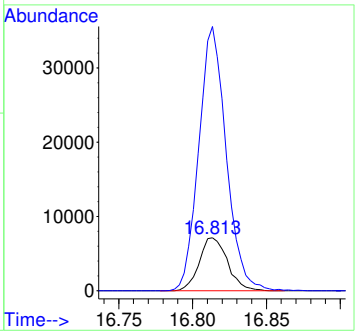


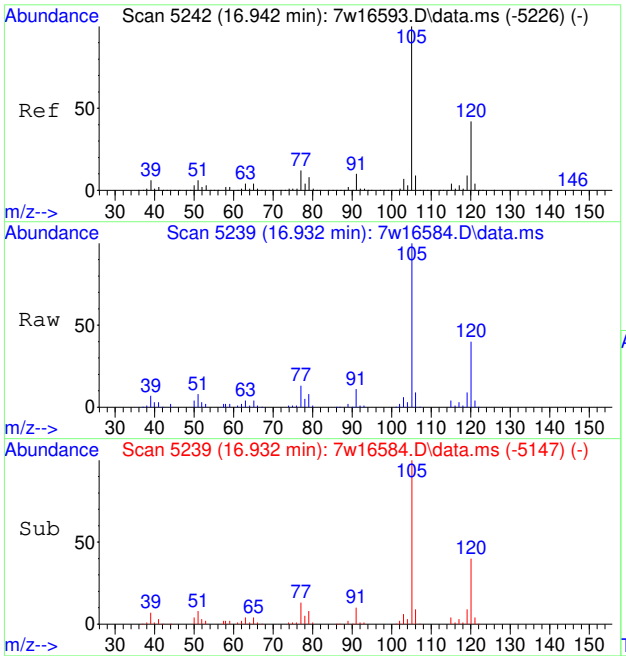


#101
SEC-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9482

Ion	Ratio	Lower	Upper
134	100		
105	484.9	314.4	584.0

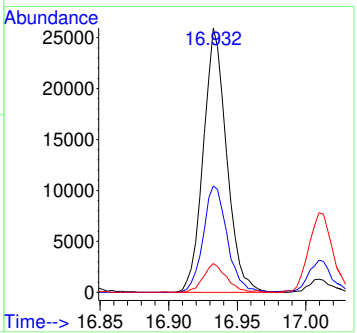


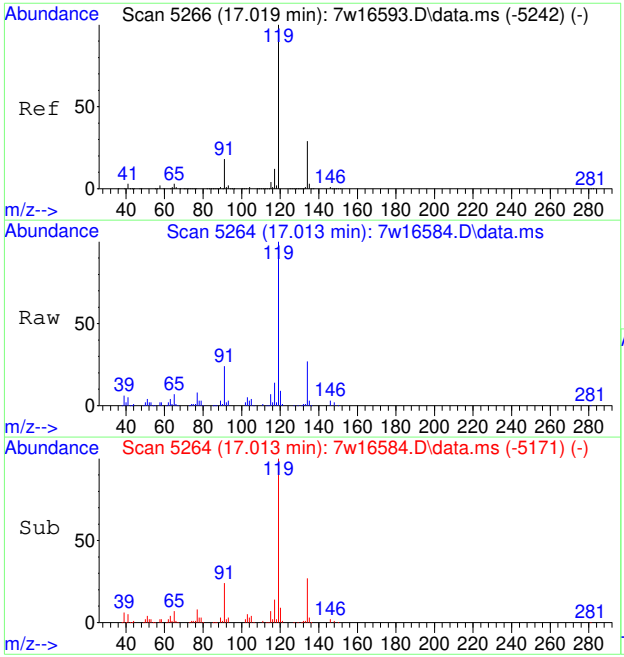


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30663

Ion	Ratio	Lower	Upper
105	100		
120	41.5	31.9	59.2
91	11.0	7.3	13.5

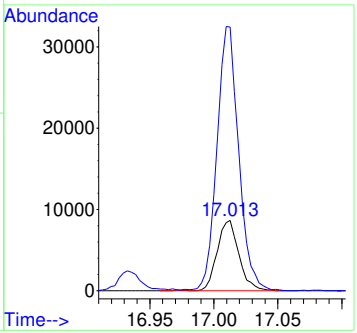


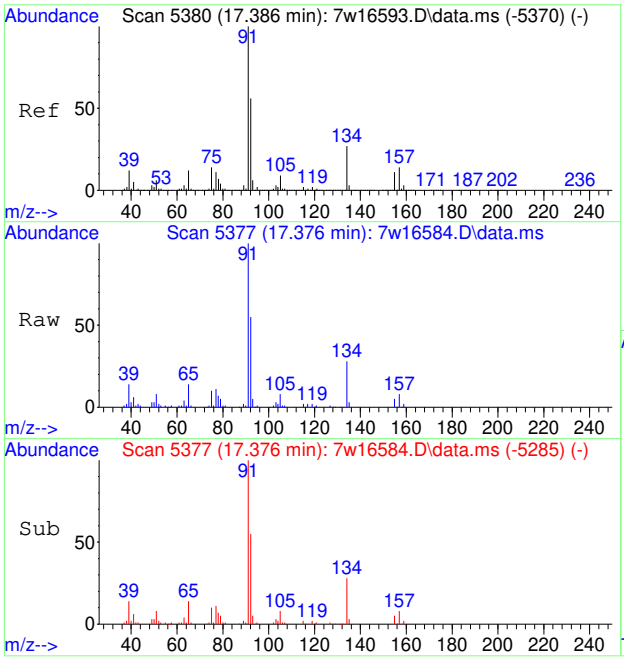


#103
P-ISOPROPYLTOLUENE
Concen: 0.49 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 10237

Ion	Ratio	Lower	Upper
134	100		
119	376.8	253.7	471.3

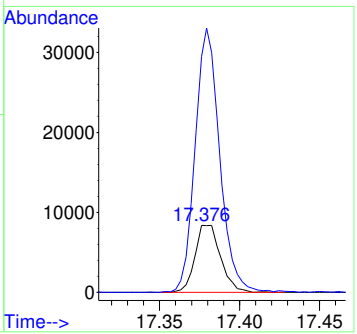


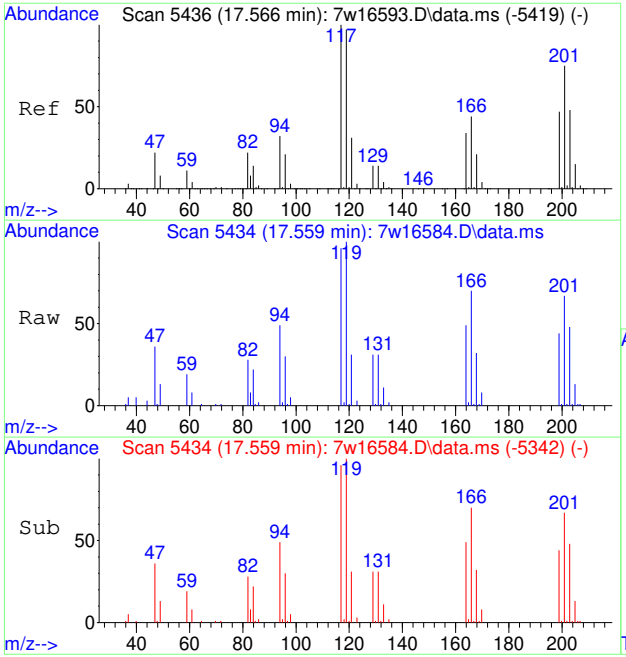


#104
N-BUTYLBENZENE
Concen: 0.47 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9347

Ion	Ratio	Lower	Upper
134	100		
91	380.4	231.1	429.1

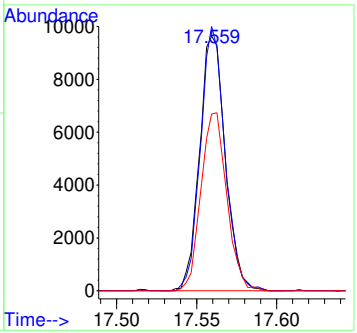


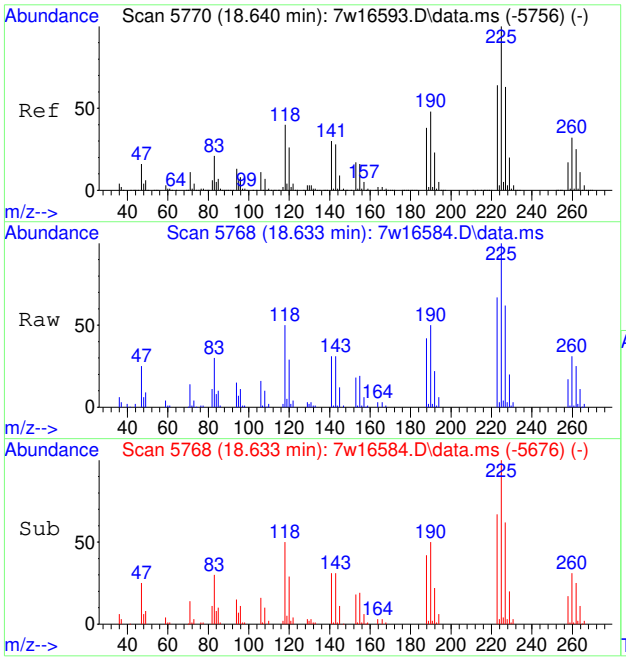


#105
HEXACHLOROETHANE
Concen: 0.44 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 10816

Ion	Ratio	Lower	Upper
117	100		
119	98.3	68.3	126.9
201	69.8	45.9	85.3

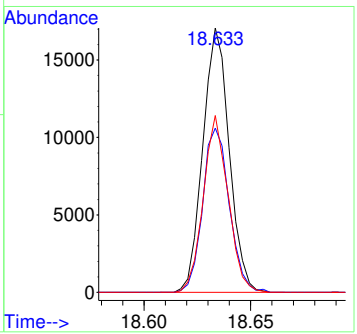


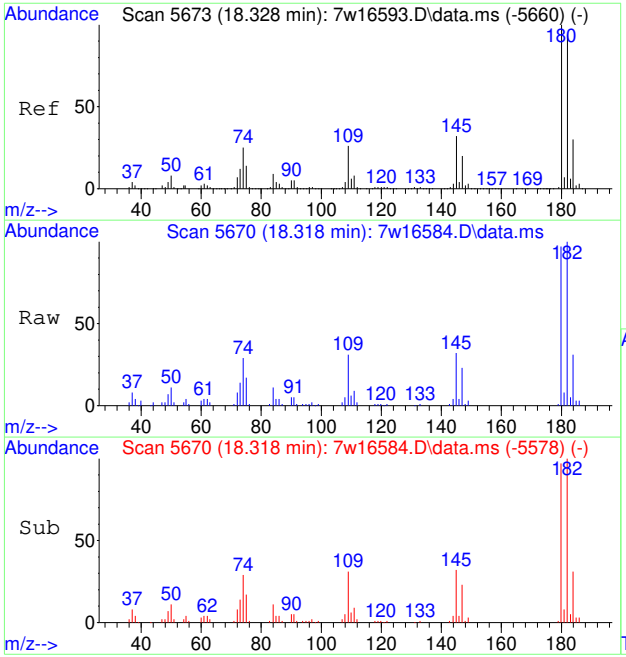


#106
HEXACHLOROBUTADIENE
Concen: 0.54 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:225 Resp: 14662

Ion	Ratio	Lower	Upper
225	100		
227	62.8	44.4	82.5
223	62.8	44.7	83.1

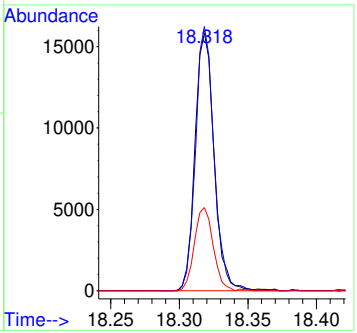


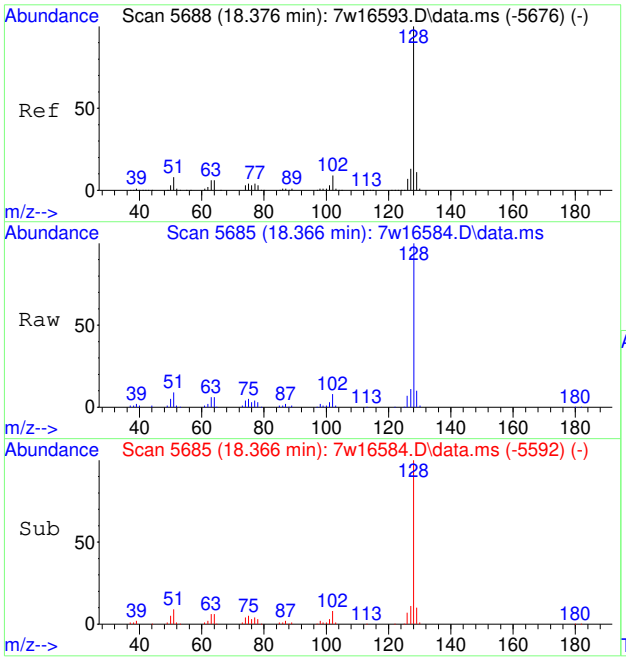


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.44 PPBV
RT: 18.318 min Scan# 5670
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:180 Resp: 15355

Ion	Ratio	Lower	Upper
180	100		
182	98.7	66.8	124.0
145	32.0	23.1	42.9

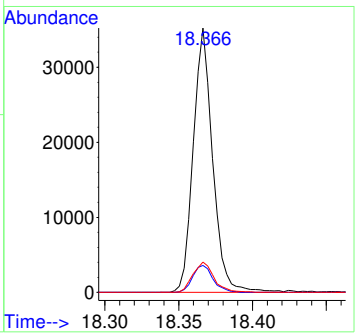


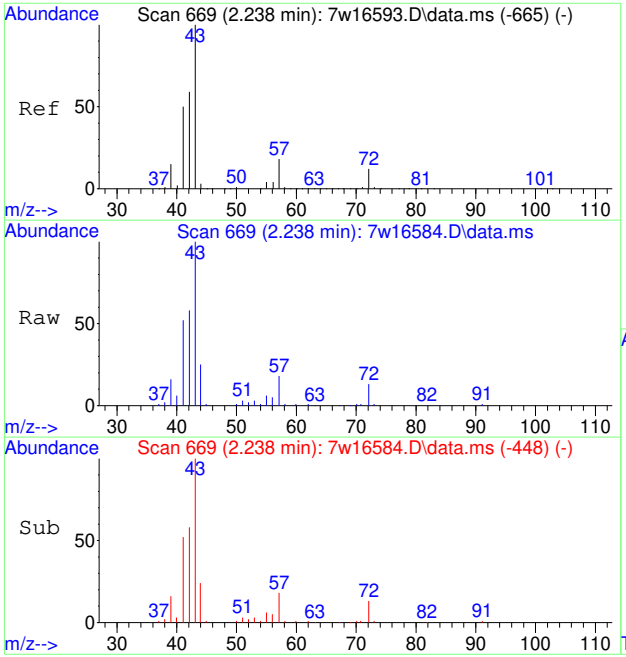


#108
NAPHTHALENE
Concen: 0.40 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:128 Resp: 32243

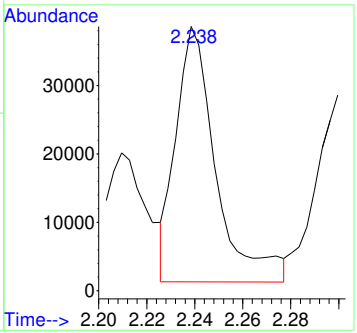
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.4	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.69 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:TIC Resp: 43130



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16584.D
Injection Time: 08/07/25 09:13

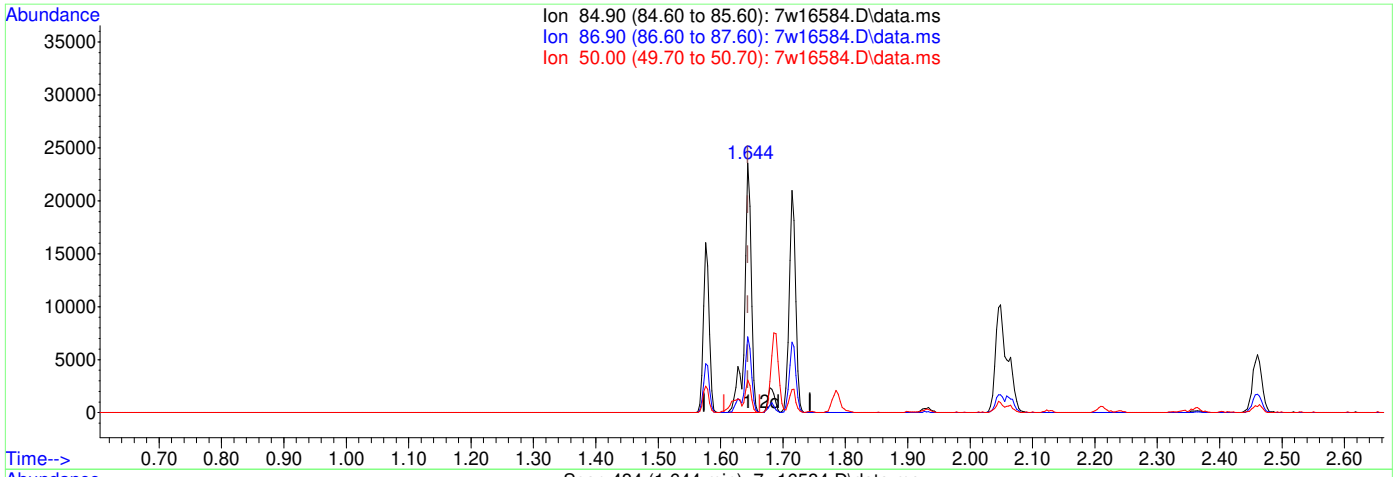
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

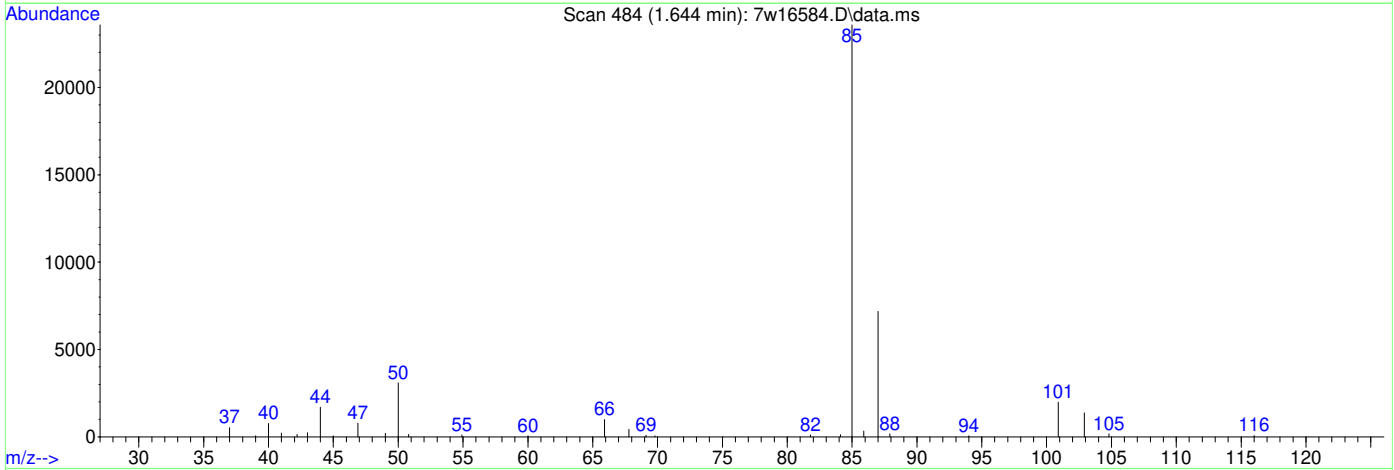
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.52PPBV

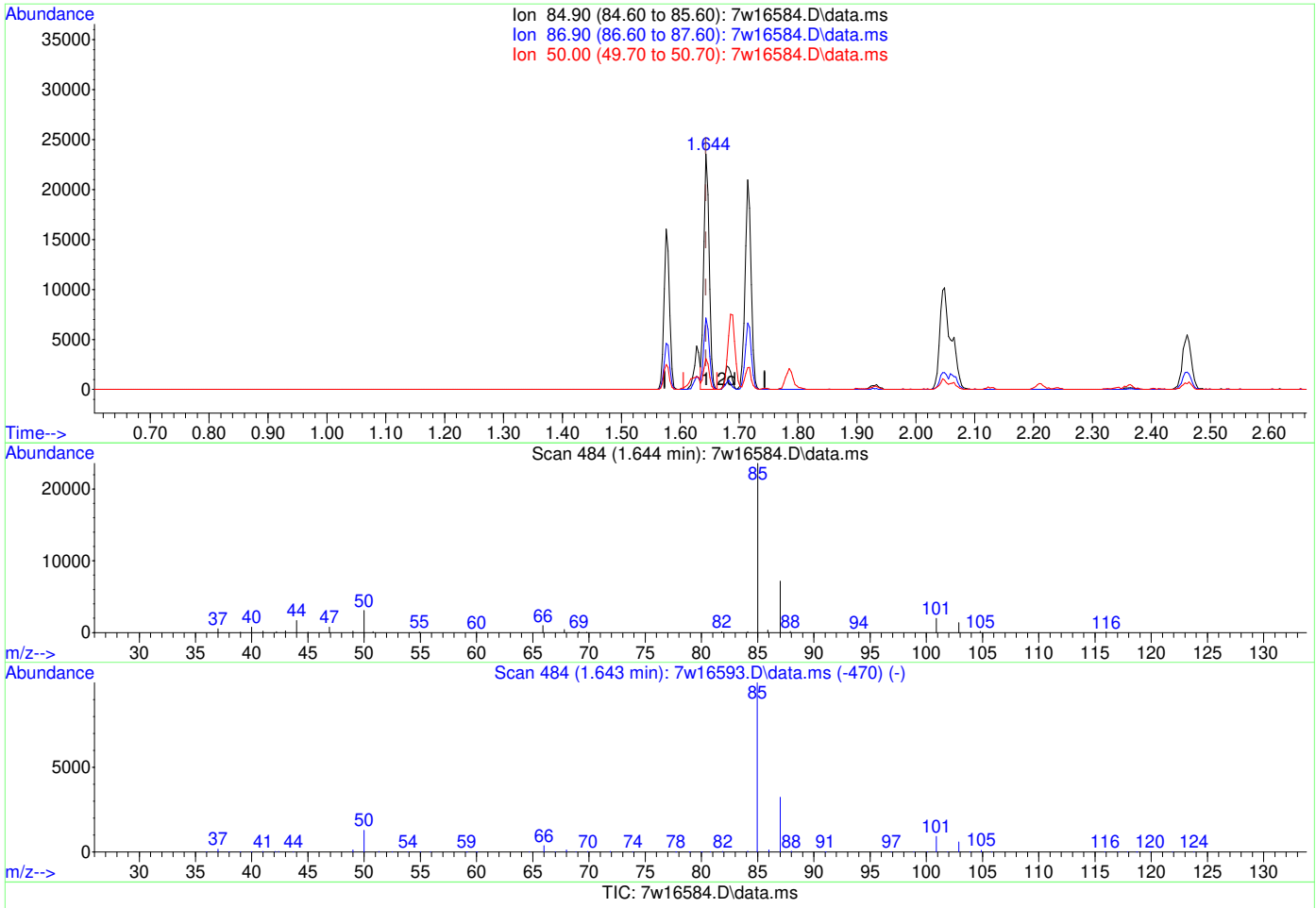
response 17704

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.09
50.00	17.30	20.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.44PPBV m

response 14890

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.16
50.00	17.30	23.88#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110309	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	561645	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511167	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110309	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415987	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	71924	5.05	PPBV		88
3) FREON 152A	1.605	65	34756	5.11	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	16247	5.26	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	77653	5.13	PPBV		72
6) DICHLORODIFLUOROMETHANE	1.643	85	143733m	4.36	PPBV		
7) PROPYLENE	1.627	41	44998	5.15	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	131345	5.33	PPBV		99
9) FREON 114	1.714	85	147028	5.09	PPBV		83
10) CHLOROMETHANE	1.688	52	19944	5.36	PPBV		96
11) VINYL CHLORIDE	1.746	62	69360	5.02	PPBV		98
12) 1,3-BUTADIENE	1.785	54	53869	5.04	PPBV	#	74
13) N-BUTANE	1.801	43	95908	5.23	PPBV		98
14) BROMOMETHANE	1.859	94	52720	5.02	PPBV		97
15) CHLOROETHANE	1.904	64	35268	4.83	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	127414	4.88	PPBV		96
17) ACETONITRILE	1.994	41	54085	4.71	PPBV		97
18) ACROLEIN	2.032	56	30491	5.10	PPBV		97
19) FREON 123	2.049	83	138654	5.20	PPBV		97
20) FREON 123A	2.065	117	81977	5.24	PPBV	#	56
21) TRICHLOROFLUOROMETHANE	2.129	101	150765	4.96	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	131851	5.23	PPBV		89
23) ACETONE	2.071	58	34925	5.00	PPBV		67
24) PENTANE	2.241	42	67328	5.17	PPBV		89
25) IODOMETHANE	2.299	142	145418	5.22	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	59691	5.29	PPBV	#	61
27) CARBON DISULFIDE	2.463	76	169676	5.18	PPBV		94
28) ETHANOL	1.933	45	31099	4.82	PPBV		98
29) BROMOETHENE	2.004	106	53853	4.91	PPBV		95
30) ACRYLONITRILE	2.209	52	50954	5.27	PPBV		98
31) METHYLENE CHLORIDE	2.364	84	53489	5.00	PPBV	#	78
32) 3-CHLOROPROPENE	2.405	76	30822	5.04	PPBV		72
33) FREON 113	2.460	151	91200	5.19	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.685	96	62237	5.00	PPBV	#	64
35) TERTIARY BUTYL ALCOHOL	2.338	59	146023	4.75	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	180915	5.12	PPBV		97
37) TETRAHYDROFURAN	3.470	72	27419	4.64	PPBV		76
38) HEXANE	3.241	57	121135	5.18	PPBV		82
39) VINYL ACETATE	2.827	86	16334	4.75	PPBV		70
40) 1,1-DICHLOROETHANE	2.759	63	121863	4.97	PPBV		97
41) METHYL ETHYL KETONE	2.923	72	31986	5.07	PPBV	#	83
42) CIS-1,2-DICHLOROETHENE	3.113	96	64888	5.01	PPBV	#	74
43) DIISOPROPYL ETHER	3.245	59	35230	5.24	PPBV		90
44) ETHYL ACETATE	3.248	61	23700	4.98	PPBV		68
45) METHYL ACRYLATE	3.235	55	147700	5.10	PPBV	#	98
46) CHLOROFORM	3.261	83	130788	5.10	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	139904	5.24	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	135968	5.09	PPBV		95
49) CARBON TETRACHLORIDE	4.235	117	140153	4.91	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.659	62	100577	5.00	PPBV		98
51) BENZENE	4.129	78	190147	5.07	PPBV		90
53) CYCLOHEXANE	4.335	84	86740	5.03	PPBV	#	69
54) 2,3-DIMETHYLPENTANE	4.585	71	44676	5.09	PPBV		68
55) TRICHLOROETHENE	5.013	95	87453	4.76	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	79932	4.94	PPBV		92
57) DIBROMOMETHANE	4.740	174	74130	4.94	PPBV		91
58) ETHYL ACRYLATE	4.901	55	184653	5.03	PPBV	#	96
59) BROMODICHLOROMETHANE	4.958	83	145254	4.78	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	376202	4.91	PPBV	#	95
61) 1,4-DIOXANE	5.029	88	43182	4.76	PPBV	#	83
62) HEPTANE	5.418	43	129447	5.06	PPBV		90
63) METHYL METHACRYLATE	5.315	69	72765	4.95	PPBV		88
64) METHYL ISOBUTYL KETONE	6.039	58	73624	4.88	PPBV		79
65) CIS-1,3-DICHLOROPROPENE	5.939	75	122774	4.78	PPBV		97
66) TOLUENE	7.129	91	237199	5.09	PPBV		98
67) 1,3-DICHLOROPROPANE	7.183	76	121971	5.06	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	6.605	75	107017	4.46	PPBV		97
69) 1,1,2-TRICHLOROETHANE	6.762	83	68995	5.00	PPBV		96
70) 2-HEXANONE	7.695	58	99491	5.01	PPBV	#	79
71) ETHYL METHACRYLATE	7.833	69	125849	4.97	PPBV		95
72) TETRACHLOROETHENE	8.846	164	87888	5.13	PPBV		97
73) DIBROMOCHLOROMETHANE	7.659	129	139976	4.88	PPBV		98
74) 1,2-DIBROMOETHANE	7.997	107	130464	5.30	PPBV		99
75) OCTANE	8.997	43	180997	5.16	PPBV		91
77) 1,1,1,2-TETRACHLOROETHANE	10.055	131	104080	5.17	PPBV		91
78) CHLOROBENZENE	10.042	112	194976	5.29	PPBV		89
79) ETHYLBENZENE	10.920	91	322003	5.30	PPBV		97
80) M,P-XYLENE	11.350	91	506054	10.38	PPBV		99
81) O-XYLENE	12.280	91	257748	5.40	PPBV		95
82) STYRENE	12.067	104	194546	5.23	PPBV		94
83) NONANE	13.402	43	192916	5.27	PPBV		83
84) BROMOFORM	11.158	173	119167	4.90	PPBV		94
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	186265	5.35	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	12.572	75	146270	5.34	PPBV		100
88) ISOPROPYLBENZENE	13.788	120	96509	5.28	PPBV		85
89) BROMOBENZENE	13.646	77	183496	5.30	PPBV		75
90) 2-CHLOROTOLUENE	14.784	126	86951	5.02	PPBV		100
91) N-PROPYLBENZENE	15.128	120	101472	5.12	PPBV		96
92) 4-ETHYLTOLUENE	15.569	105	373811	5.20	PPBV		97
93) 1,3,5-TRIMETHYLBENZENE	15.839	105	312677	5.22	PPBV		94
94) ALPHA-METHYLSTYRENE	16.173	118	154689	5.06	PPBV		96
95) TERT-BUTYLBENZENE	16.498	134	77024	5.33	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	320531	5.29	PPBV		95
97) BENZYL CHLORIDE	16.598	91	250636	4.80	PPBV		92
98) M-DICHLOROBENZENE	16.569	146	206691	5.11	PPBV		96
99) P-DICHLOROBENZENE	16.662	146	210041	5.27	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	196281	5.24	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	94529	5.43	PPBV		84
102) 1,2,3-TRIMETHYLBENZENE	16.935	105	310890	5.23	PPBV		95
103) P-ISOPROPYLTOLUENE	17.009	134	102620	5.24	PPBV		93
104) N-BUTYLBENZENE	17.379	134	99471	5.28	PPBV		79
105) HEXACHLOROETHANE	17.559	117	121985	5.22	PPBV		97
106) HEXACHLOROBUTADIENE	18.630	225	144324	5.62	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.315	180	179655	5.43	PPBV		100
108) NAPHTHALENE	18.363	128	413175	5.36	PPBV		100
110) TVHC as equiv Pentane	2.238	TIC	315100	5.18	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
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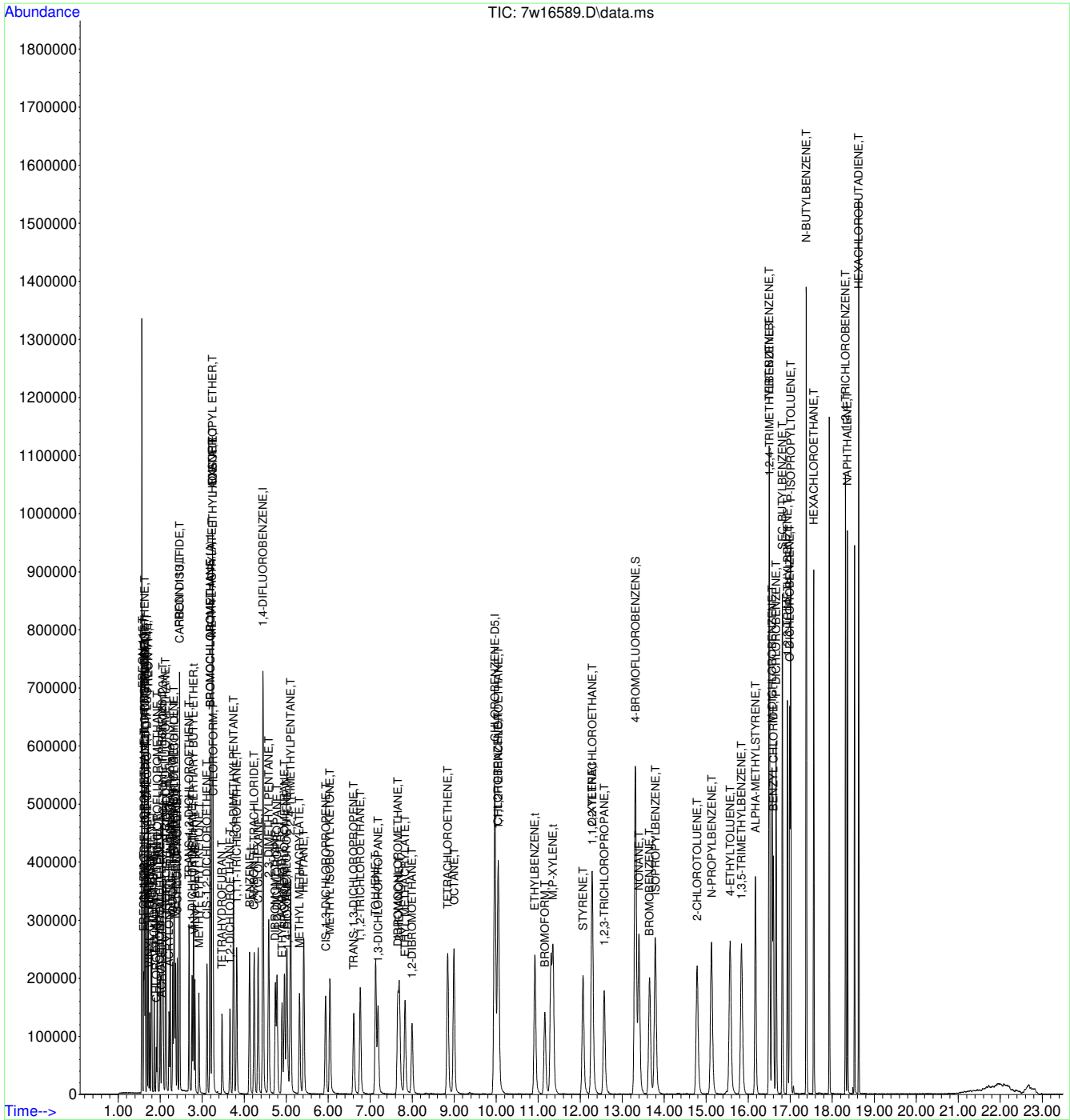
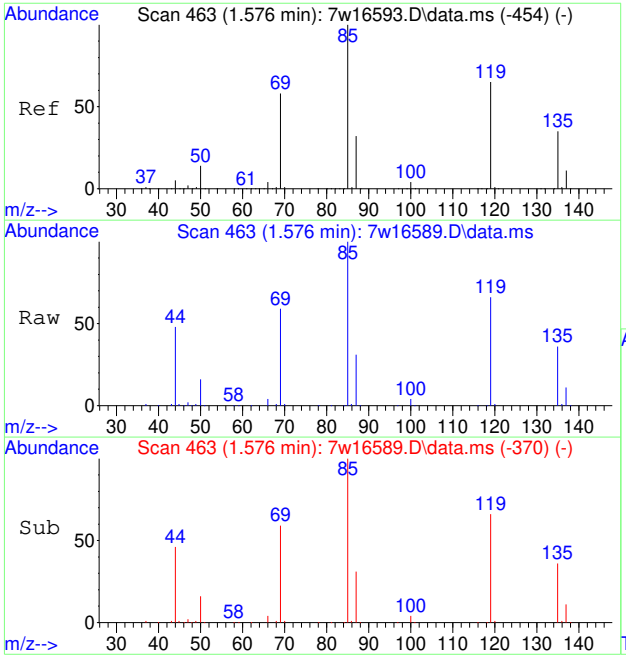
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

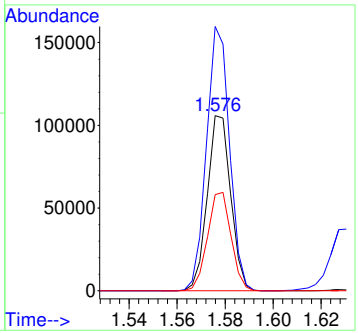


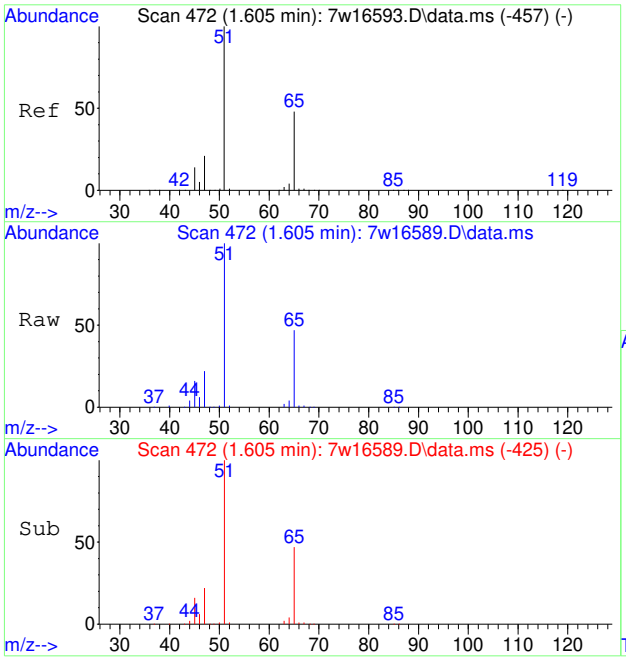


#2
FREON 115
Concen: 5.05 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:119 Resp: 71924

Ion	Ratio	Lower	Upper
119	100		
85	148.1	90.9	168.7
135	56.4	38.2	71.0

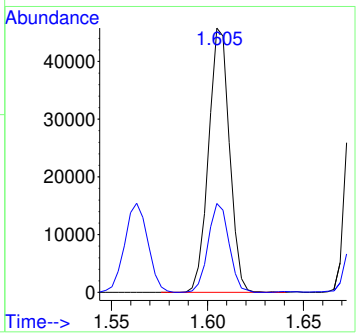


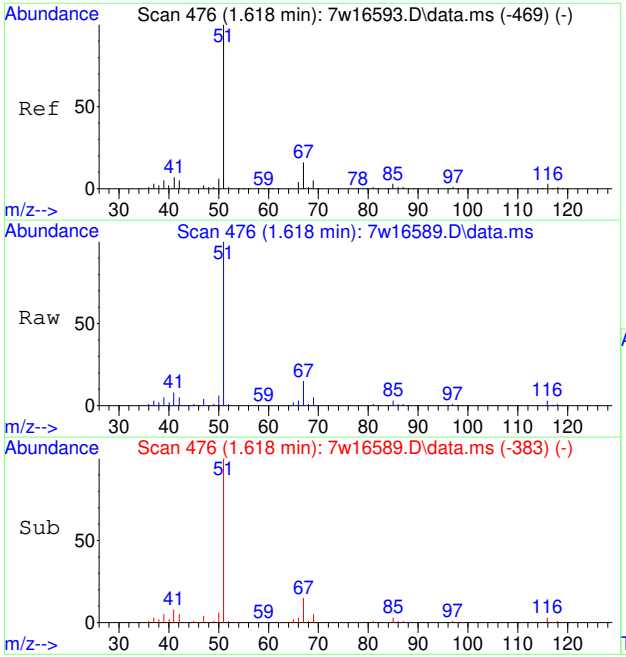


#3
FREON 152A
Concen: 5.11 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 34756

Ion	Ratio	Lower	Upper
65	100		
45	33.5	20.6	38.4

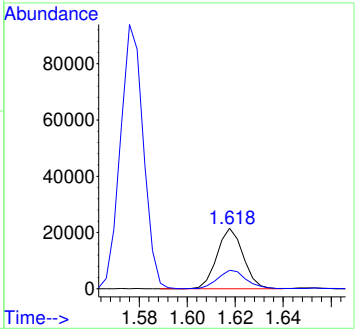


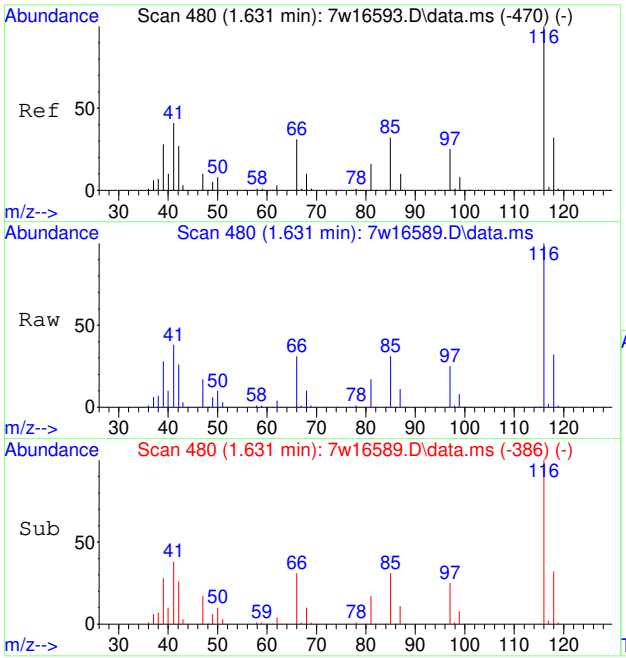


#4
CHLORODIFLUOROMETHANE
Concen: 5.26 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 16247

Ion	Ratio	Lower	Upper
67	100		
69	33.3	25.4	47.2

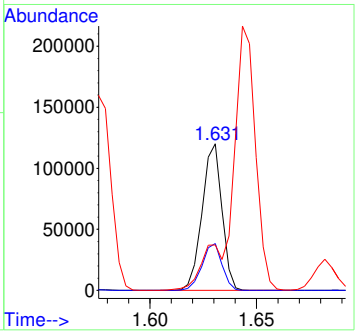


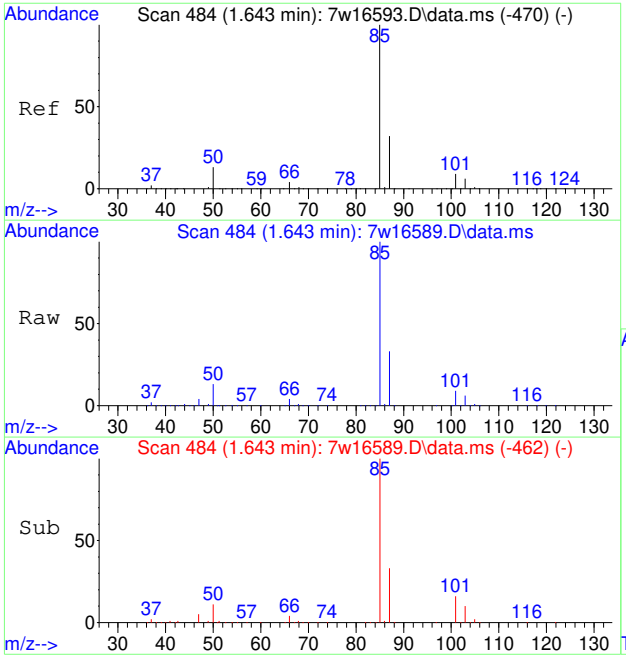


#5
CHLOROTRIFLUOROETHENE
Concen: 5.13 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:116 Resp: 77653

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.7	42.1
85	219.4	194.7	361.7

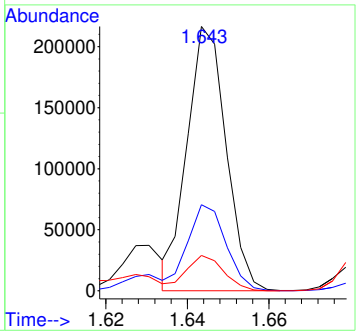


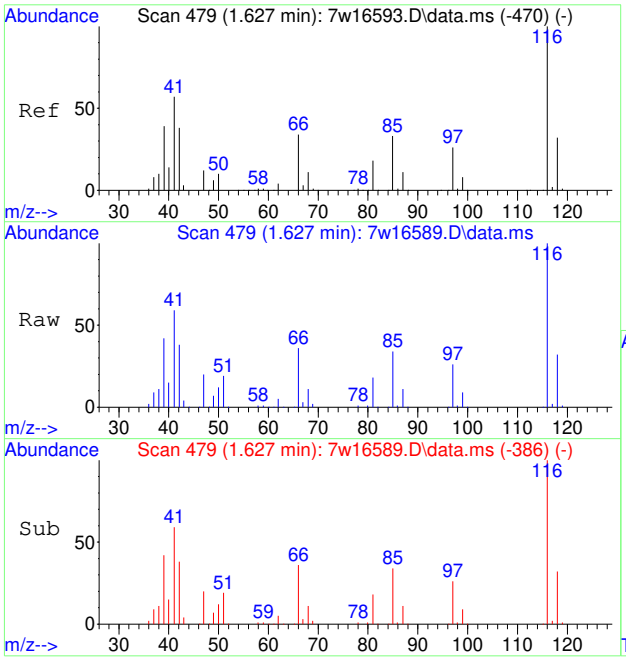


#6
DICHLORODIFLUOROMETHANE
Concen: 4.36 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 143733

Ion	Ratio	Lower	Upper
85	100		
87	38.6	23.1	42.9
50	22.8	12.1	22.5#

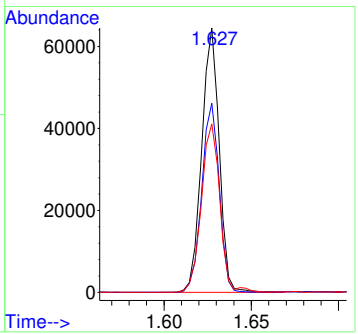


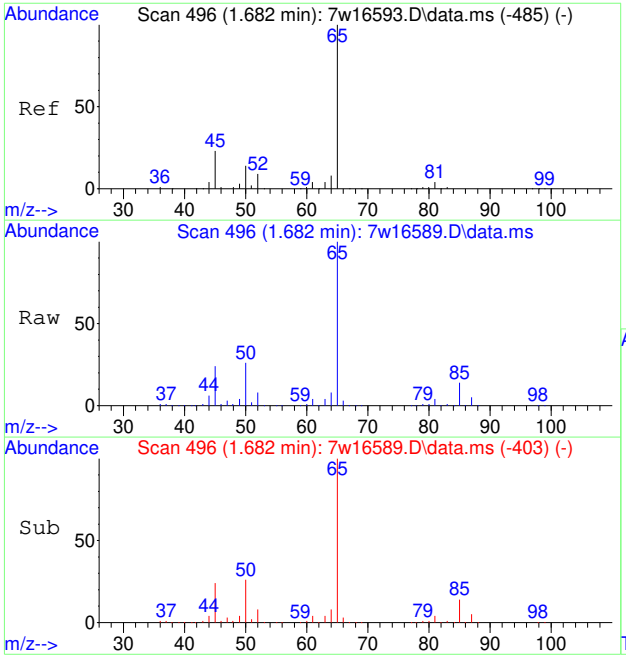


#7
PROPYLENE
Concen: 5.15 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 44998

Ion	Ratio	Lower	Upper
41	100		
39	71.7	51.0	94.8
42	67.5	46.6	86.6

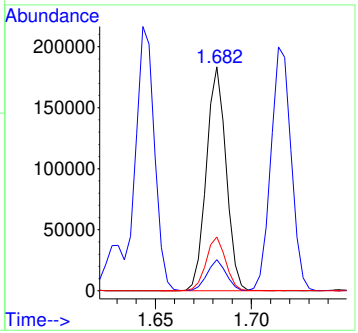


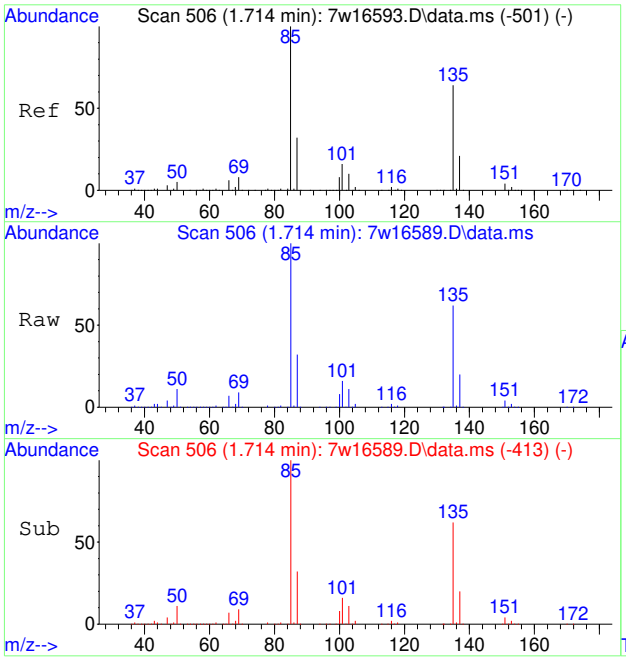


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 5.33 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 131345

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.7	17.9
45	23.8	17.0	31.6

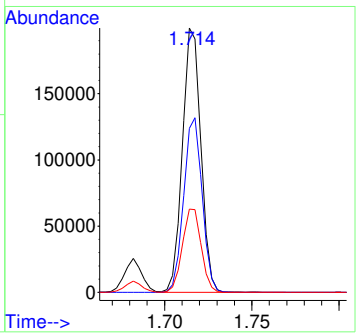


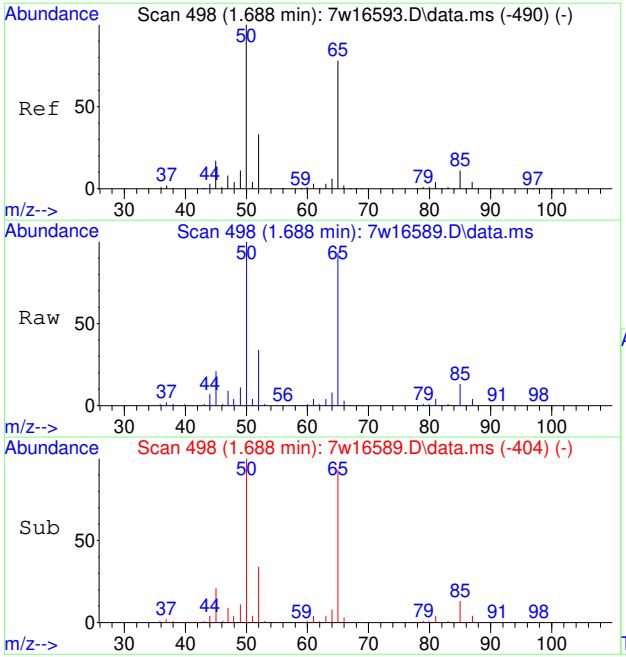


#9
FREON 114
Concen: 5.09 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 147028

Ion	Ratio	Lower	Upper
85	100		
135	66.0	61.3	113.9
87	32.2	23.2	43.0

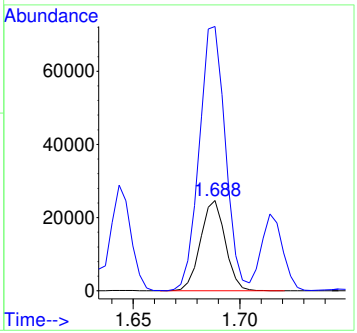


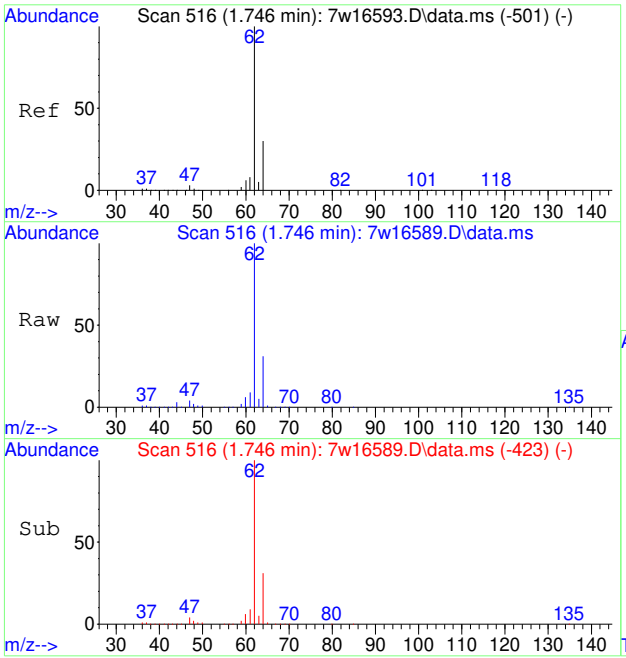


#10
CHLOROMETHANE
Concen: 5.36 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 19944

Ion	Ratio	Lower	Upper
52	100		
50	315.9	227.6	422.6

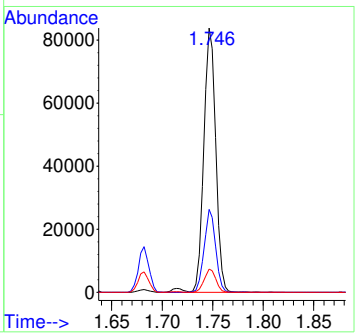


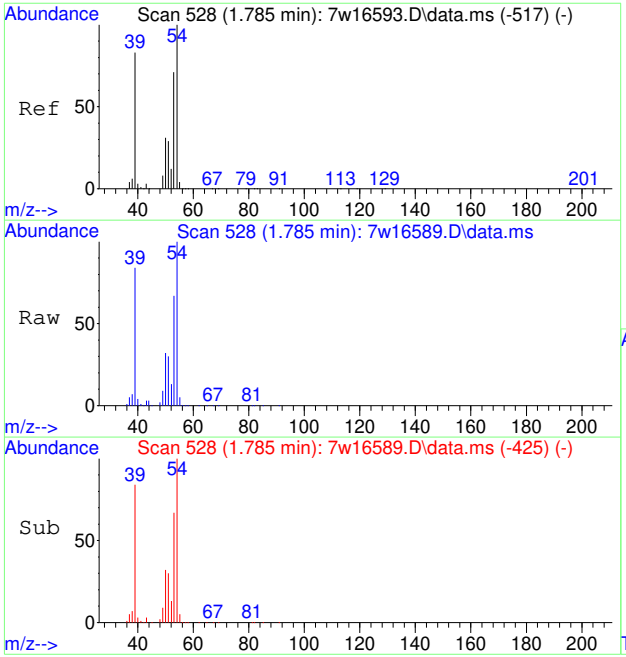


#11
VINYL CHLORIDE
Concen: 5.02 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 69360

Ion	Ratio	Lower	Upper
62	100		
64	29.9	21.6	40.2
61	8.5	5.7	10.7

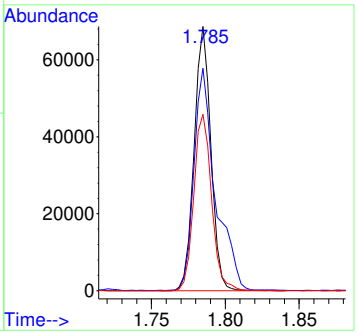


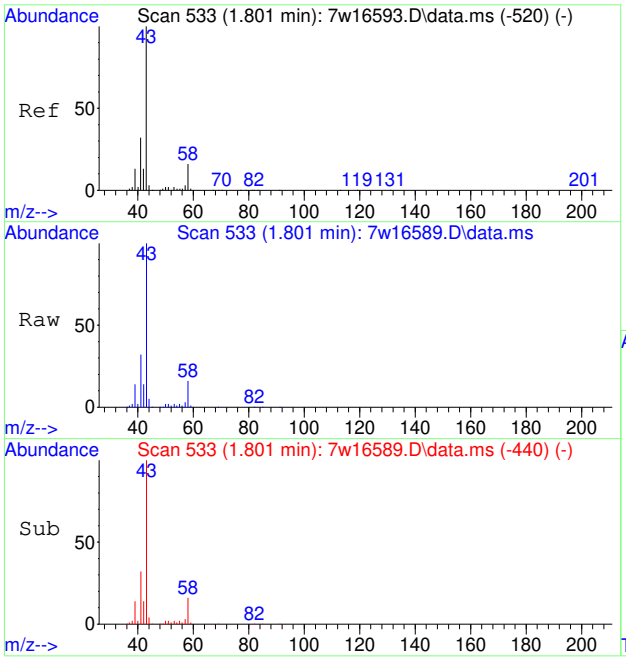


#12
1,3-BUTADIENE
Concen: 5.04 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 54 Resp: 53869

Ion	Ratio	Lower	Upper
54	100		
39	107.8	125.6	185.6#
53	71.3	40.7	100.7

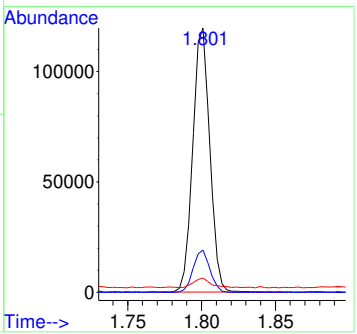


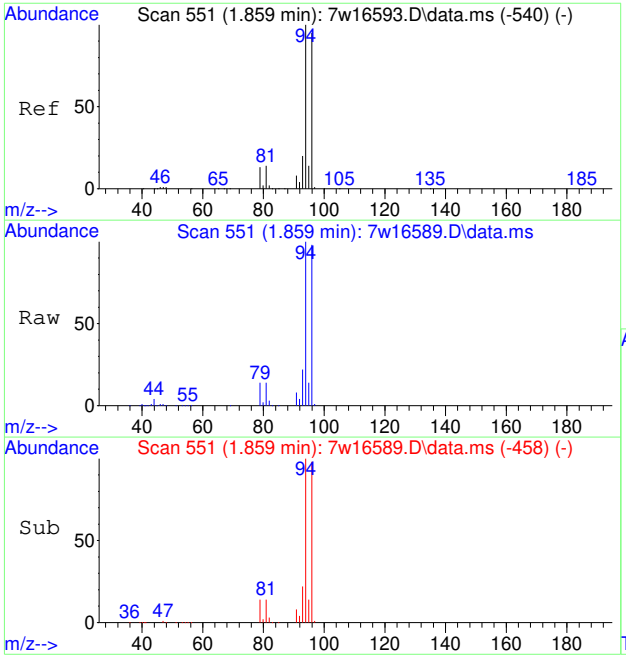


#13
N-BUTANE
Concen: 5.23 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 95908

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	4.1	3.0	5.6

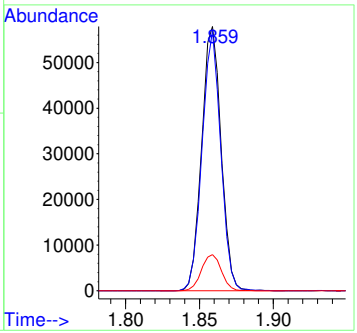


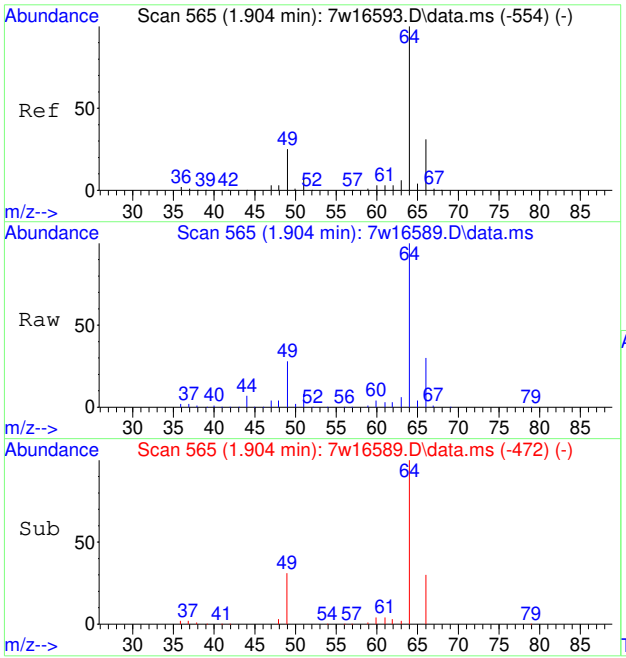


#14
BROMOMETHANE
Concen: 5.02 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 94 Resp: 52720

Ion	Ratio	Lower	Upper
94	100		
96	94.3	63.6	118.0
95	14.1	10.0	18.6

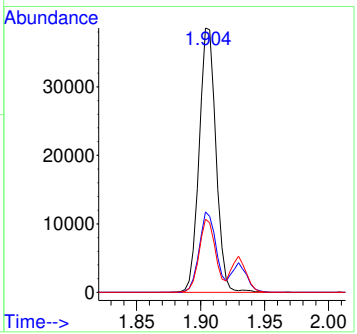


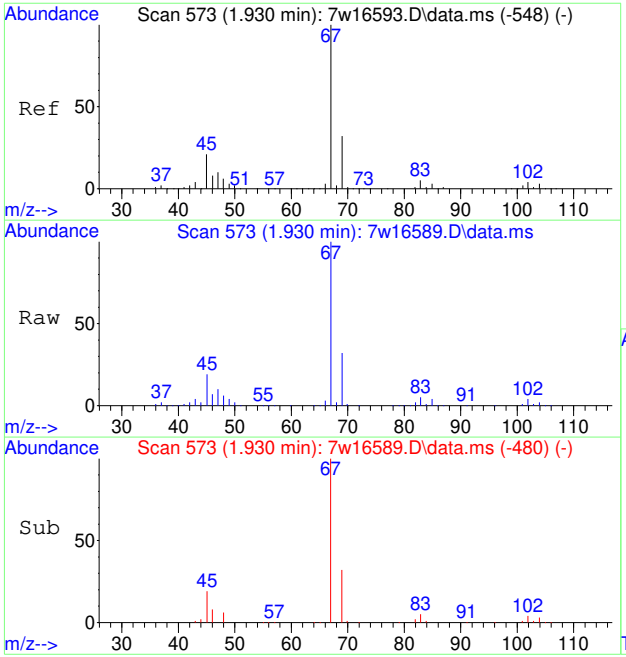


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 64 Resp: 35268

Ion	Ratio	Lower	Upper
64	100		
66	41.1	23.0	42.6
49	27.7	21.5	39.9

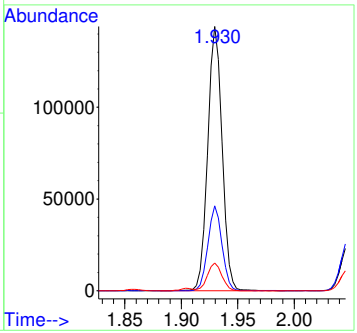


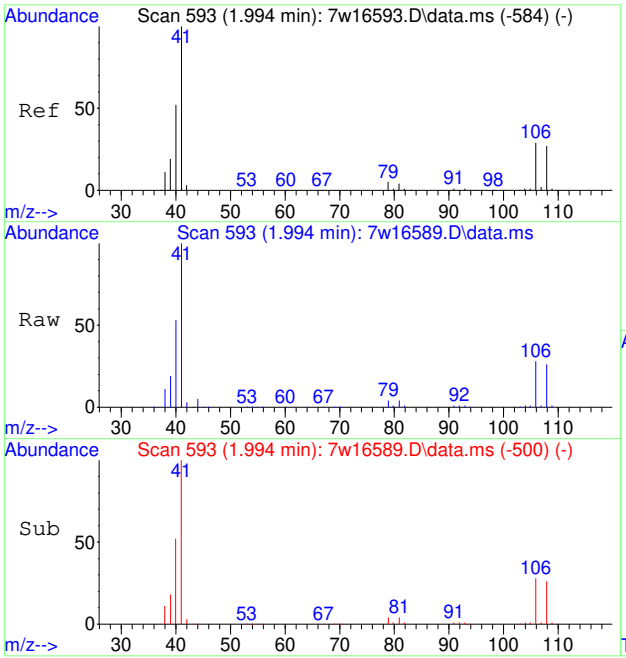


#16
DICHLOROFLUOROMETHANE
Concen: 4.88 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 127414

Ion	Ratio	Lower	Upper
67	100		
69	31.5	23.2	43.0
47	11.4	9.6	17.8

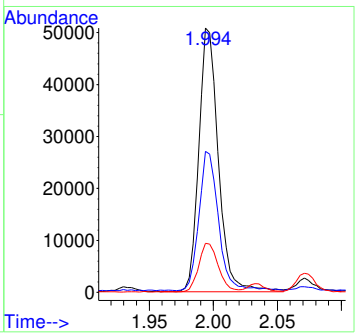


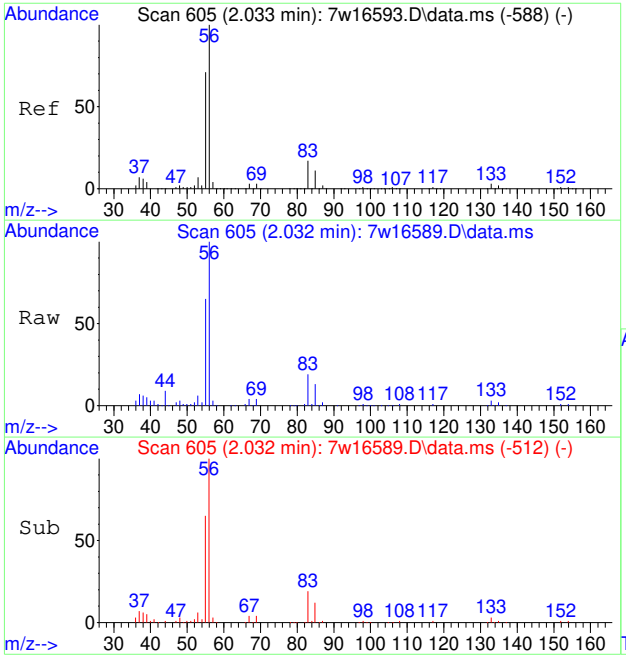


#17
ACETONITRILE
Concen: 4.71 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 54085

Ion	Ratio	Lower	Upper
41	100		
40	53.0	38.4	71.4
39	18.5	14.5	26.9

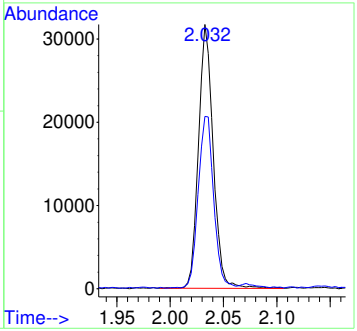


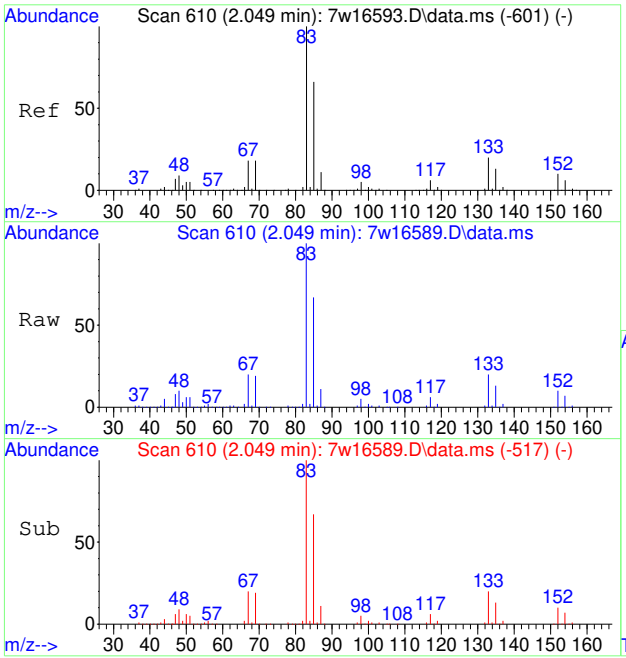


#18
ACROLEIN
Concen: 5.10 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 56 Resp: 30491

Ion	Ratio	Lower	Upper
56	100		
55	70.7	51.2	95.2

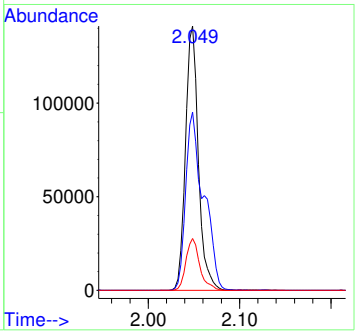


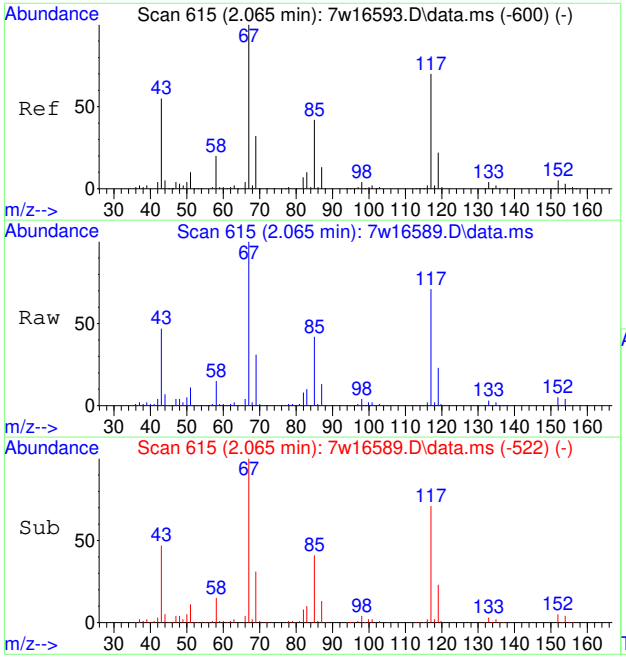


#19
FREON 123
Concen: 5.20 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 138654

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.1	19.9	36.9

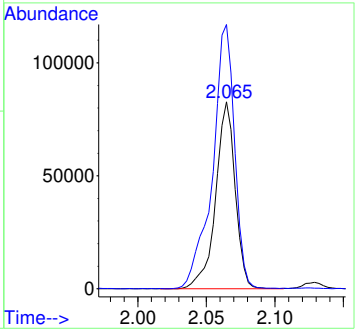


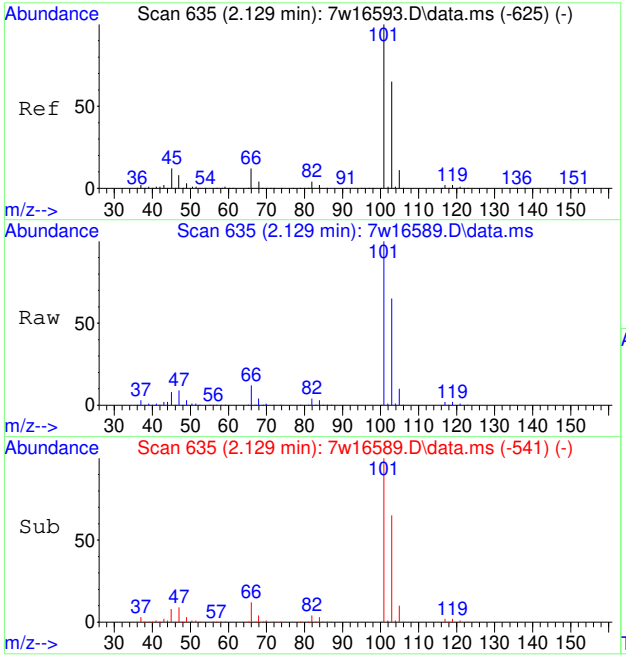


#20
FREON 123A
Concen: 5.24 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 81977

Ion	Ratio	Lower	Upper
117	100		
67	160.0	78.8	146.4#

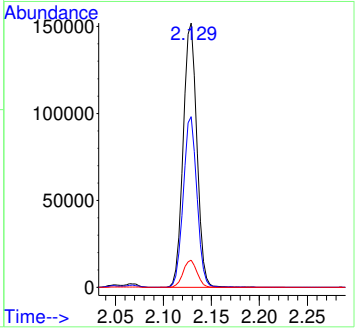


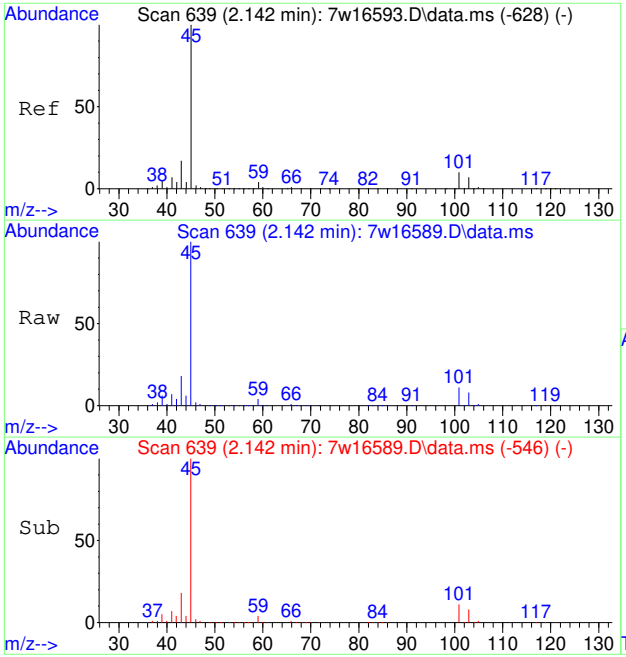


#21
TRICHLOROFLUOROMETHANE
Concen: 4.96 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:101 Resp: 150765

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.6	7.3	13.7

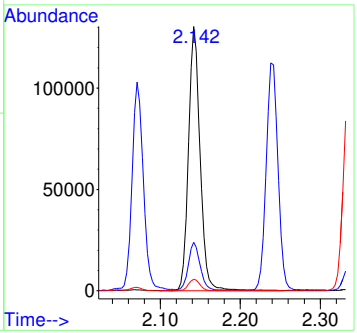


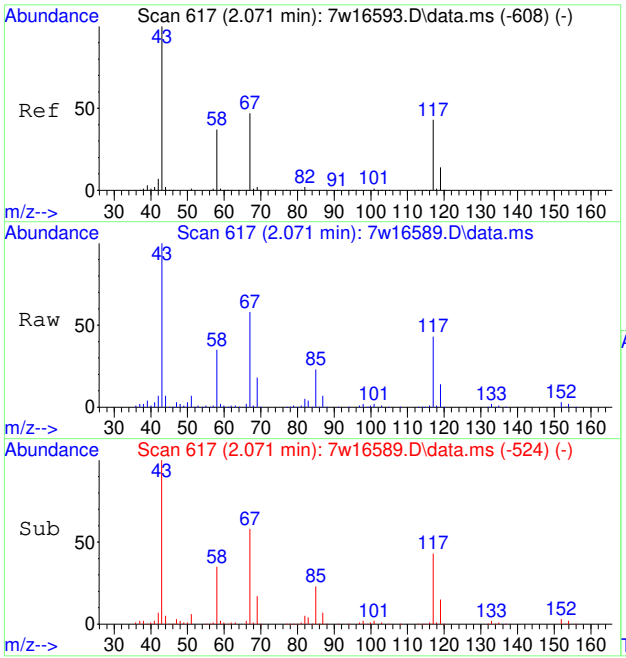


#22
ISOPROPYL ALCOHOL
Concen: 5.23 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 131851

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.4	3.1	5.8

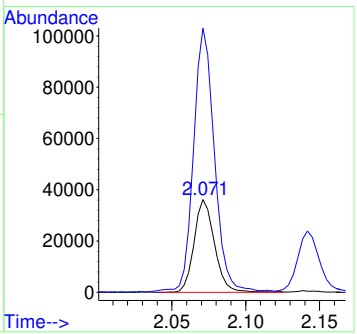


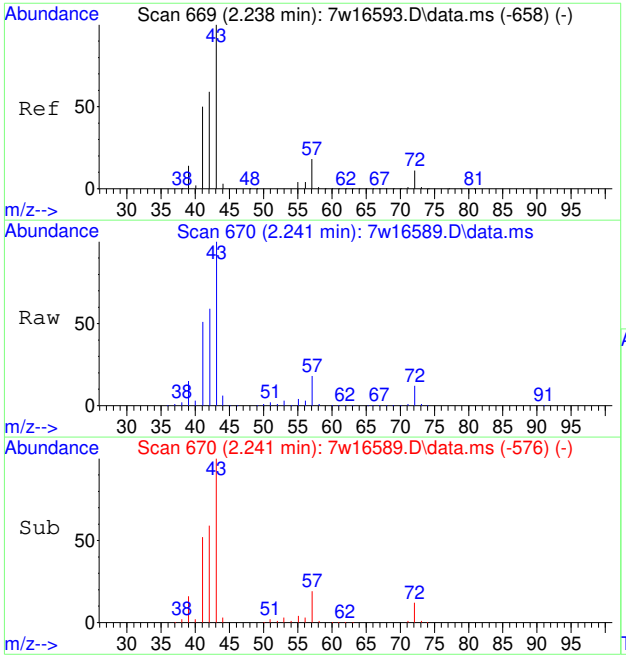


#23
ACETONE
Concen: 5.00 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 34925

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

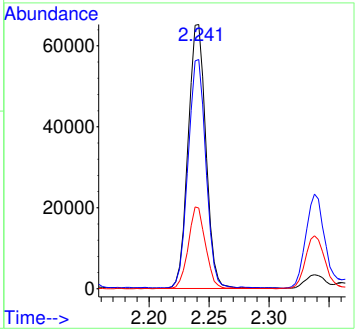


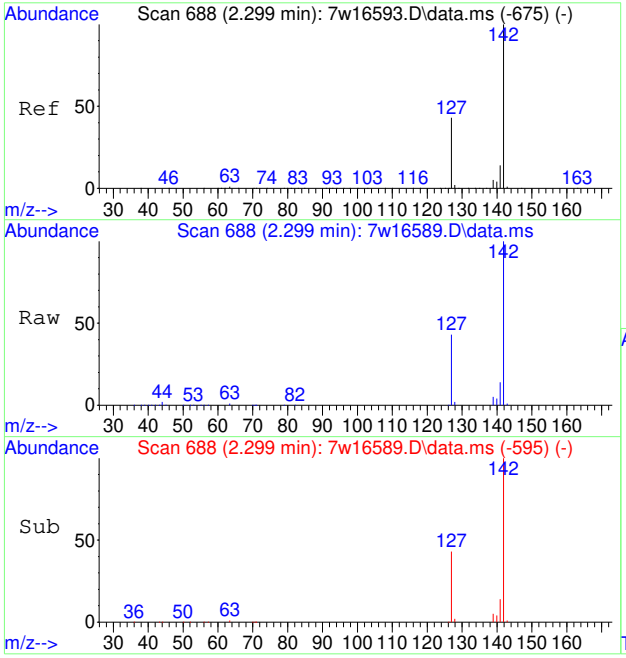


#24
PENTANE
Concen: 5.17 PPBV
RT: 2.241 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 42 Resp: 67328

Ion	Ratio	Lower	Upper
42	100		
41	86.9	69.2	128.6
57	30.5	18.6	34.6

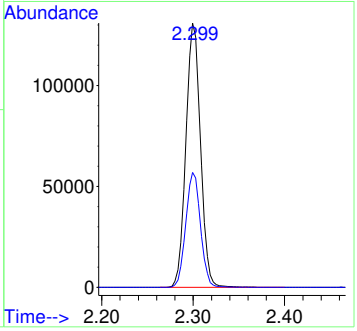


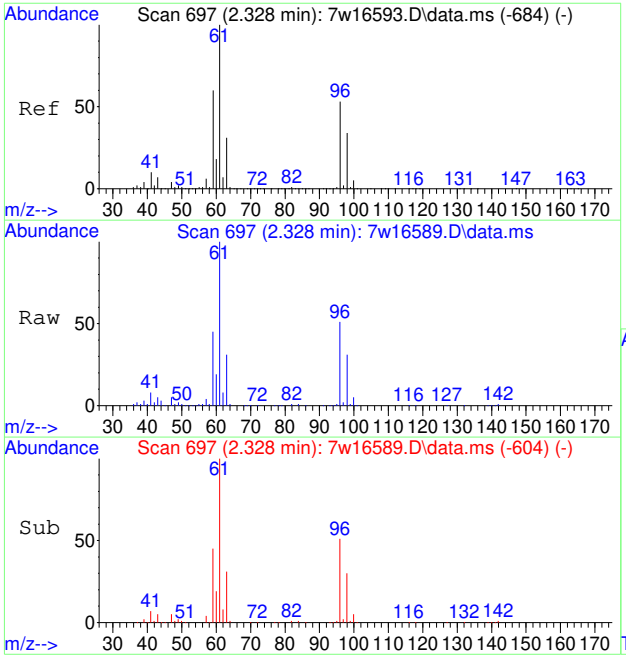


#25
IODOMETHANE
Concen: 5.22 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:142 Resp: 145418

Ion	Ratio	Lower	Upper
142	100		
127	43.8	32.1	59.7

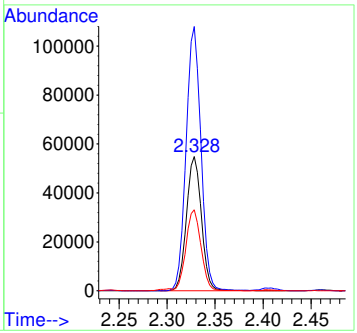


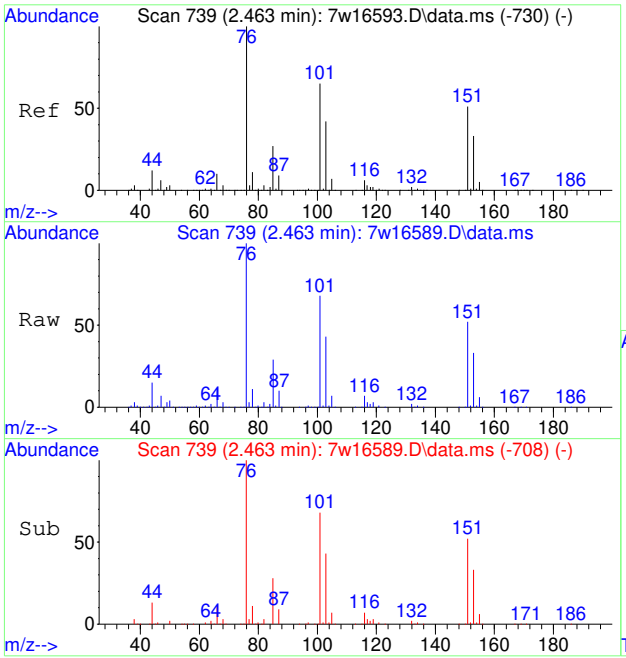


#26
1,1-DICHLOROETHYLENE
Concen: 5.29 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 59691

Ion	Ratio	Lower	Upper
96	100		
61	195.1	98.3	182.5#
63	61.9	33.2	61.7#

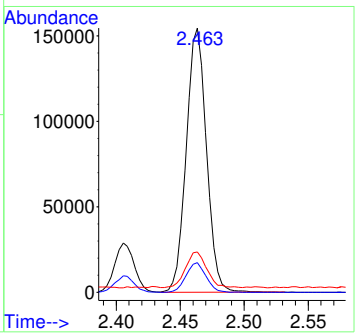


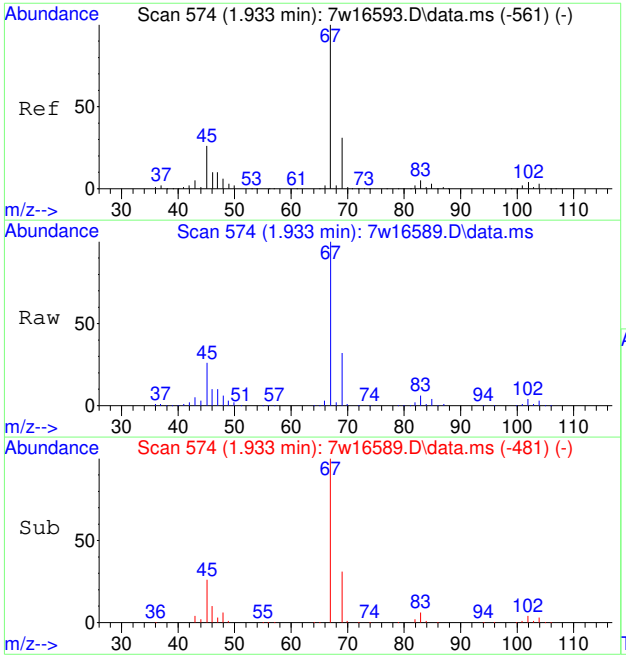


#27
CARBON DISULFIDE
Concen: 5.18 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 169676

Ion	Ratio	Lower	Upper
76	100		
78	11.2	8.3	15.3
44	14.4	13.0	24.1

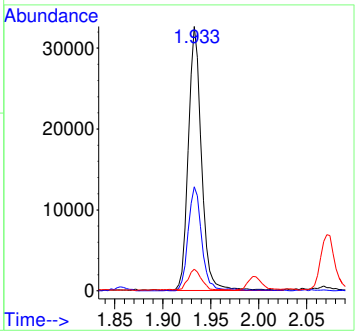


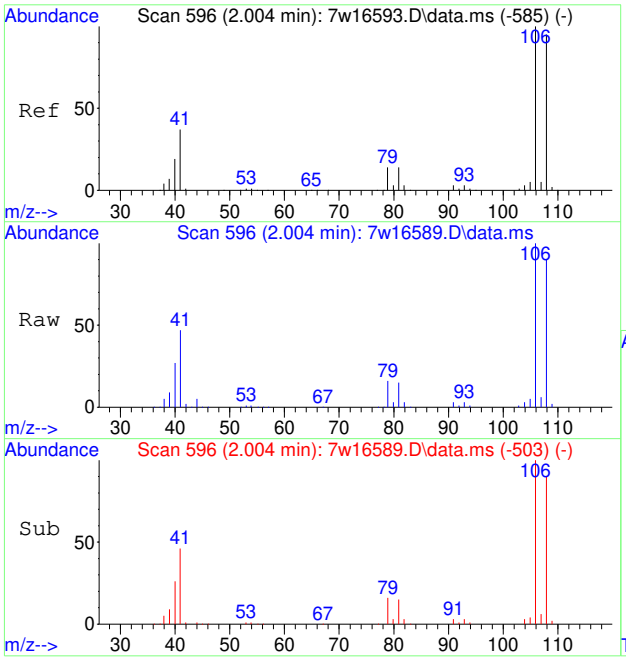


#28
ETHANOL
Concen: 4.82 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 31099

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.7	55.1
42	9.0	7.3	13.5

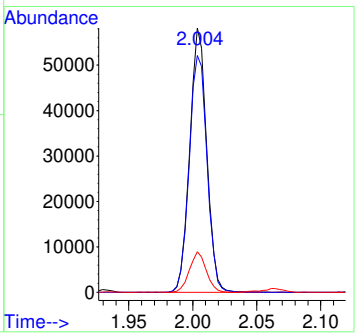


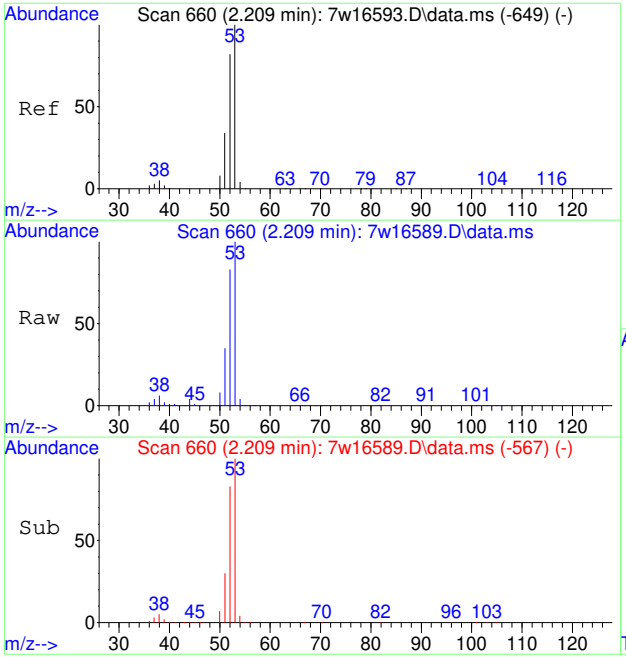


#29
BROMOETHENE
Concen: 4.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:106 Resp: 53853

Ion	Ratio	Lower	Upper
106	100		
108	93.9	68.3	126.8
81	15.2	14.7	27.3

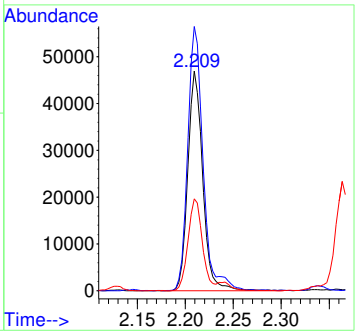


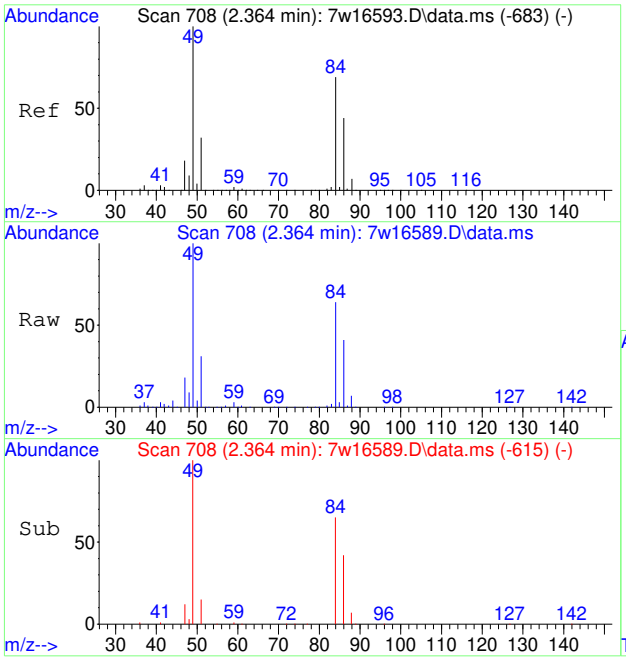


#30
ACRYLONITRILE
Concen: 5.27 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 50954

Ion	Ratio	Lower	Upper
52	100		
53	124.0	86.3	160.3
51	44.3	33.6	62.4

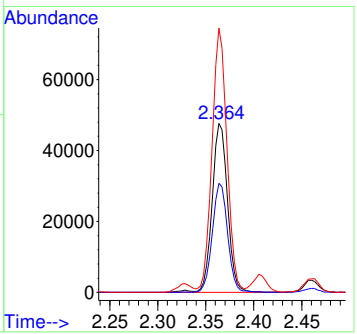


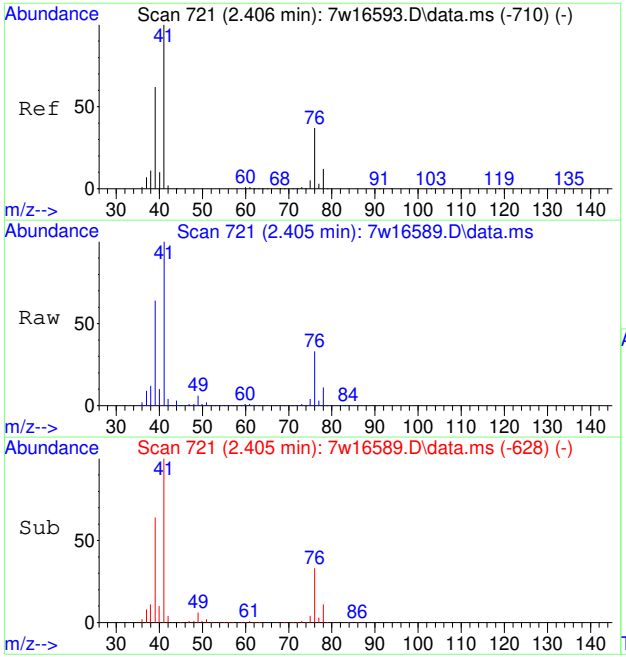


#31
METHYLENE CHLORIDE
Concen: 5.00 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 53489

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.9	83.5
49	151.5	79.7	148.1#

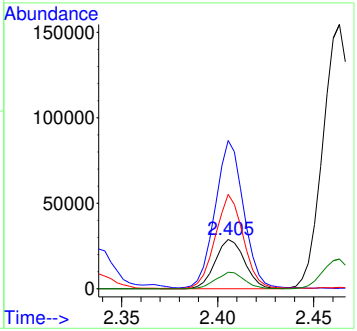


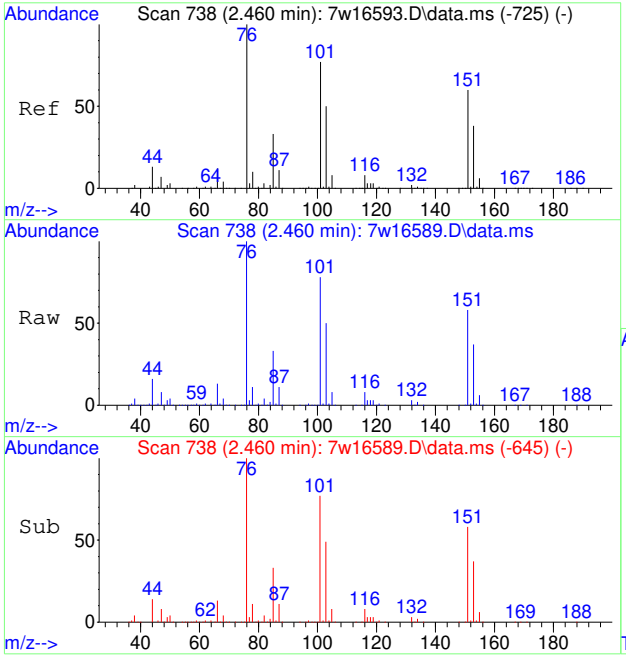


#32
3-CHLOROPROPENE
Concen: 5.04 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 30822

Ion	Ratio	Lower	Upper
76	100		
41	292.3	160.9	298.9
39	181.9	150.7	279.9
78	33.1	22.7	42.1

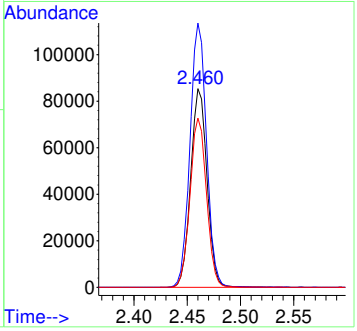


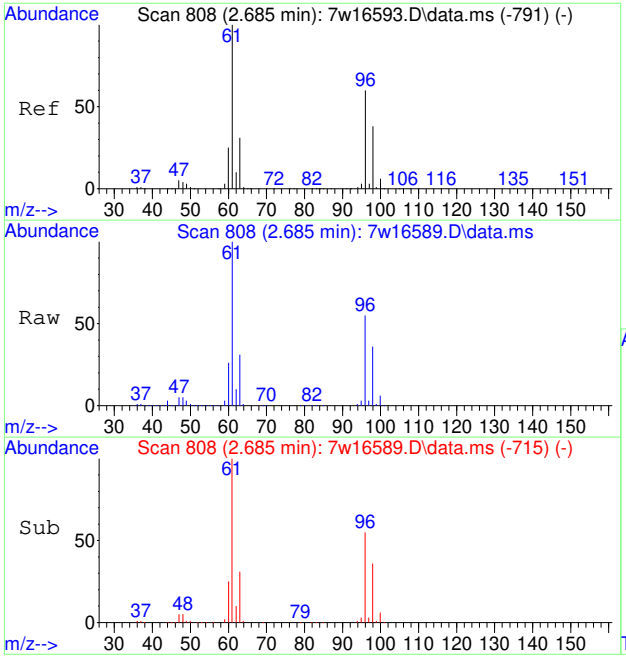


#33
FREON 113
Concen: 5.19 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:151 Resp: 91200

Ion	Ratio	Lower	Upper
151	100		
101	134.2	81.1	150.7
103	85.8	51.4	95.4

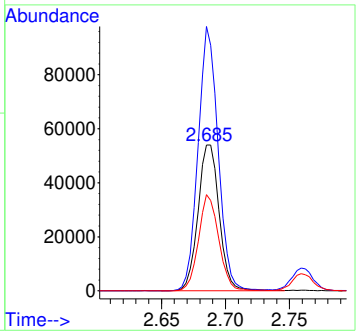


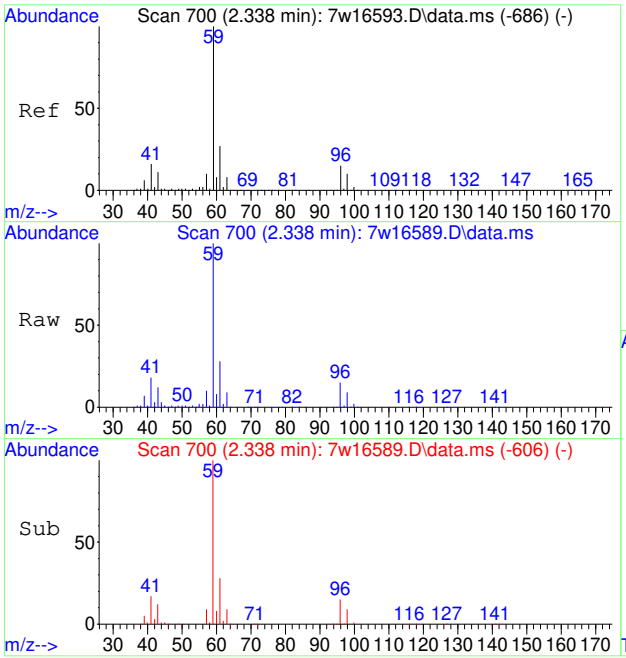


#34
TRANS-1,2-DICHLOROETHENE
Concen: 5.00 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 62237

Ion	Ratio	Lower	Upper
96	100		
61	171.0	78.5	145.9#
98	63.0	46.5	86.3

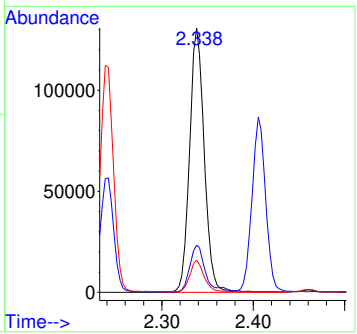


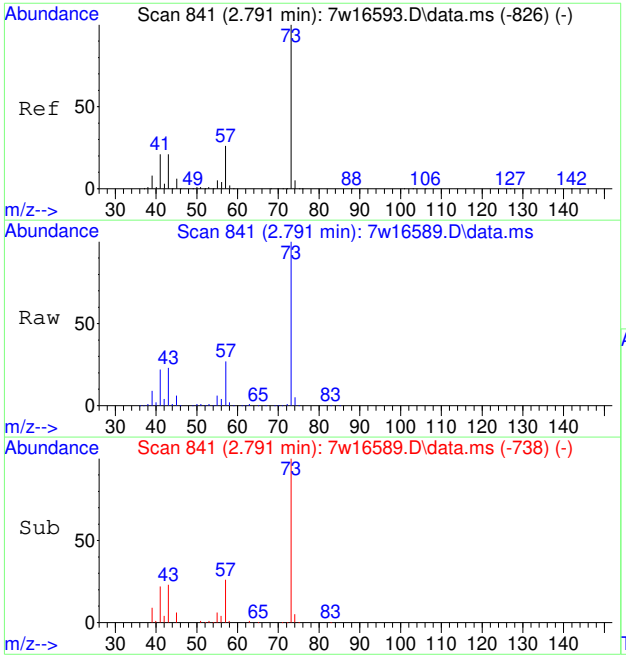


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.75 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 146023

Ion	Ratio	Lower	Upper
59	100		
41	18.7	15.3	28.5
43	11.5	12.3	22.9#

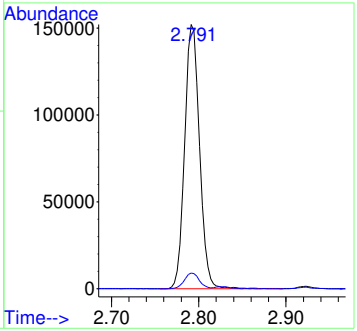


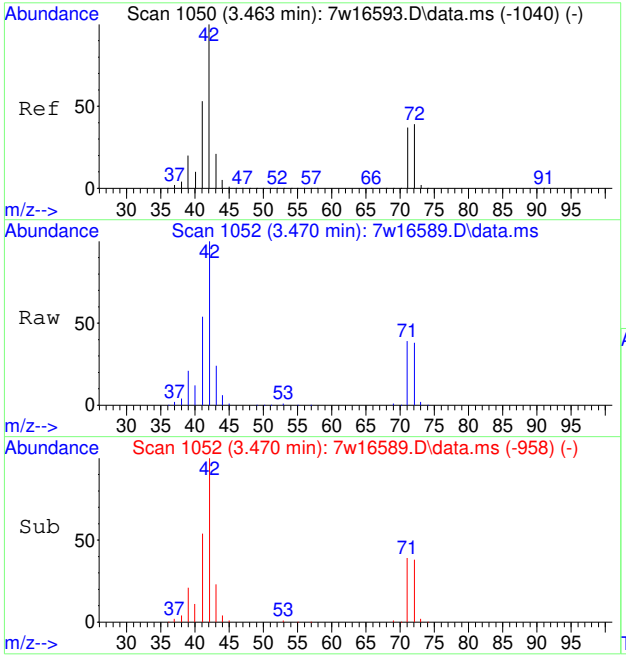


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.12 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 73 Resp: 180915

Ion	Ratio	Lower	Upper
73	100		
45	5.9	3.4	6.4

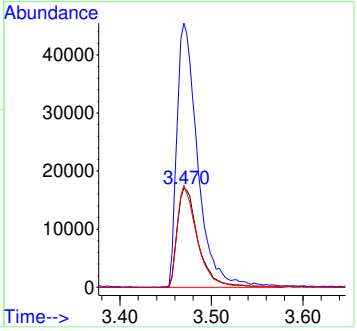


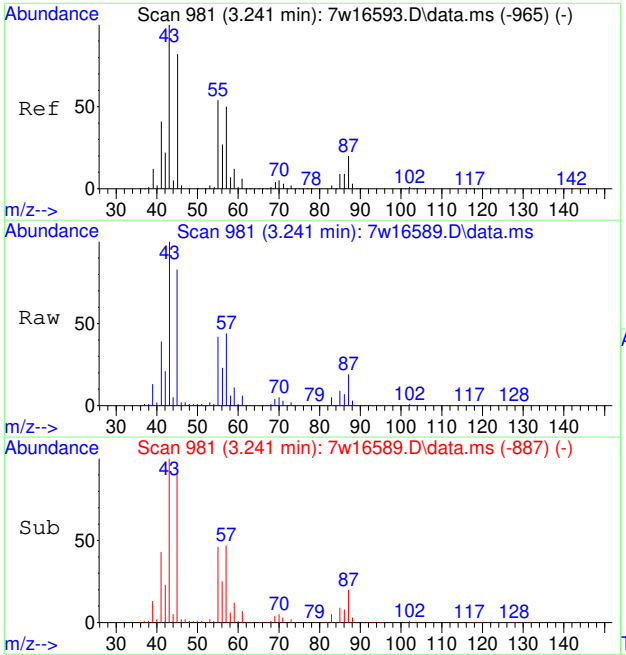


#37
TETRAHYDROFURAN
Concen: 4.64 PPBV
RT: 3.470 min Scan# 1052
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 27419

Ion	Ratio	Lower	Upper
72	100		
42	267.5	153.0	284.2
71	97.0	62.7	116.5

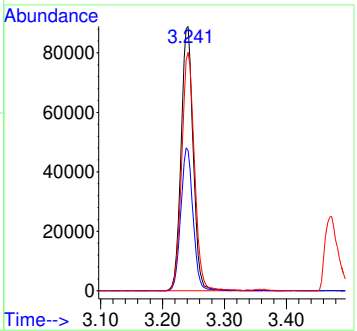


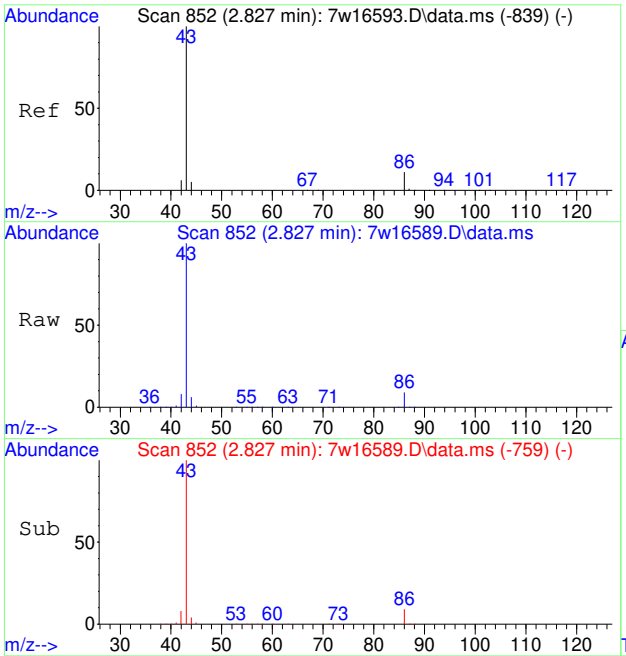


#38
HEXANE
Concen: 5.18 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 121135

Ion	Ratio	Lower	Upper
57	100		
56	54.5	37.3	69.3
41	95.1	86.7	161.1

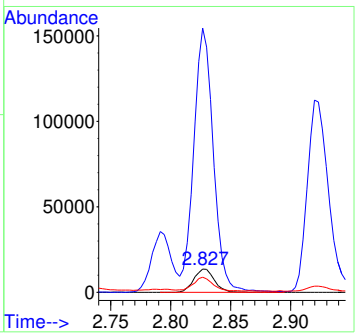


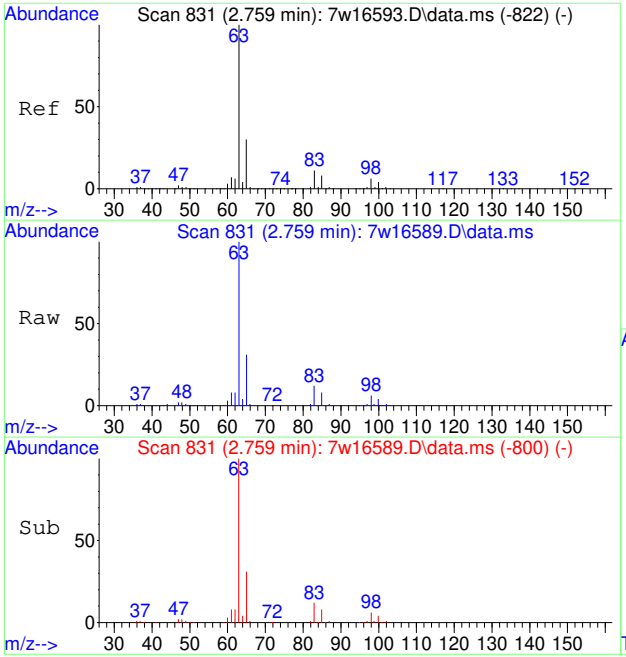


#39
VINYL ACETATE
Concen: 4.75 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 86 Resp: 16334

Ion	Ratio	Lower	Upper
86	100		
43	1085.5	667.9	1240.3
44	60.0	32.7	60.7

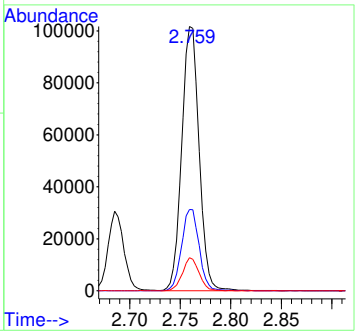


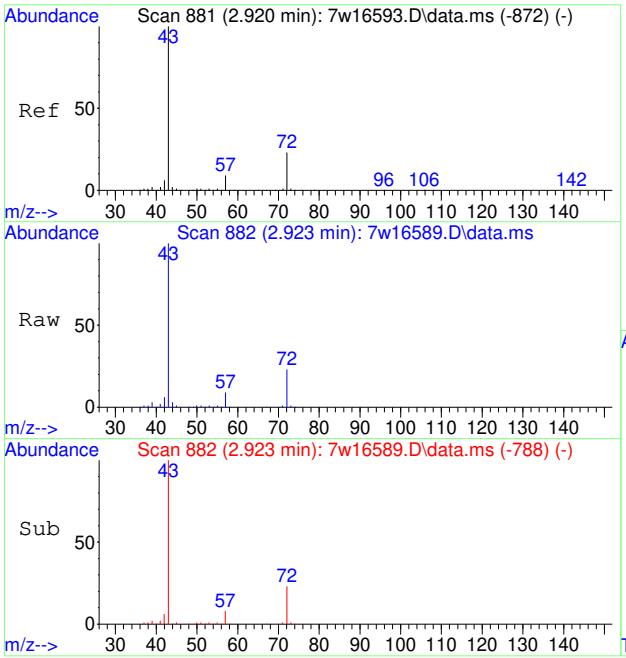


#40
1,1-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 121863

Ion	Ratio	Lower	Upper
63	100		
65	31.1	21.8	40.6
83	12.0	10.6	19.6

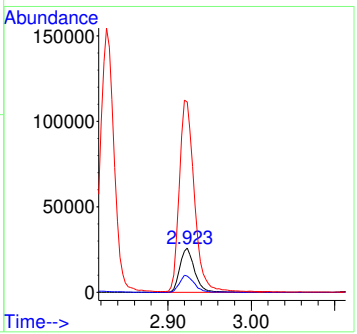


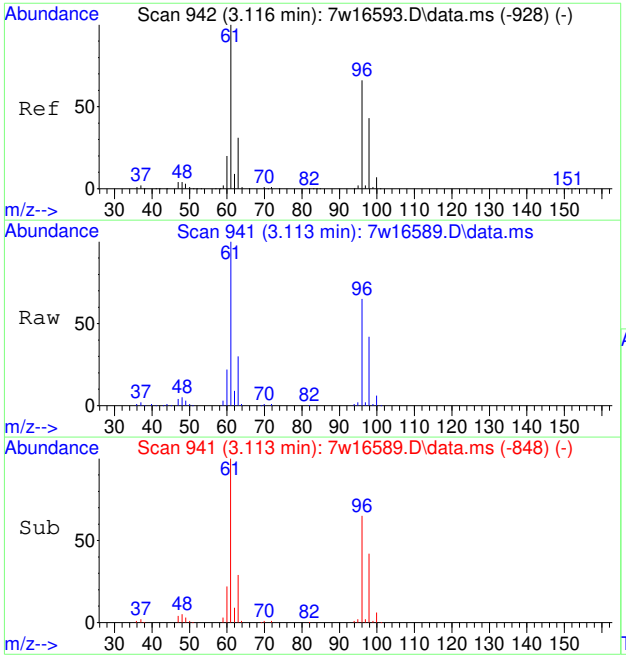


#41
METHYL ETHYL KETONE
Concen: 5.07 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 31986

Ion	Ratio	Lower	Upper
72	100		
57	39.2	20.3	37.7#
43	443.0	282.8	525.2

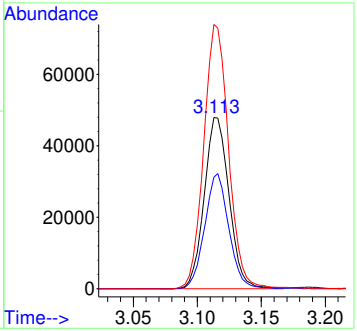


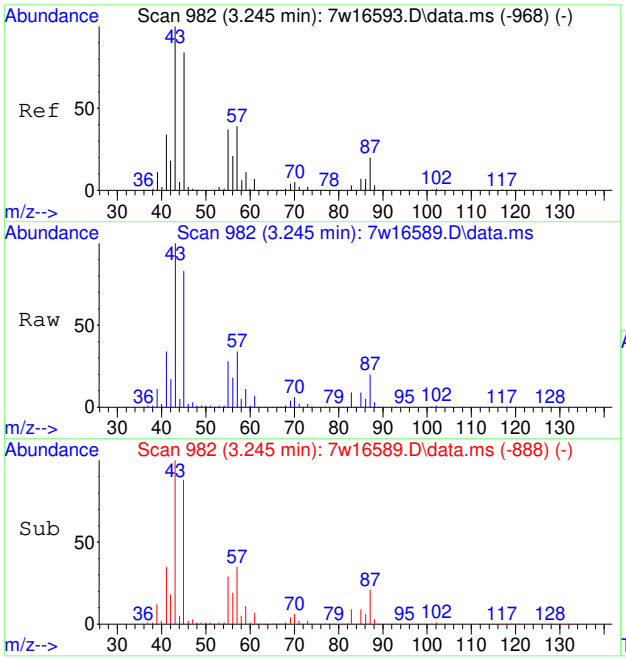


#42
CIS-1,2-DICHLOROETHENE
Concen: 5.01 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 64888

Ion	Ratio	Lower	Upper
96	100		
98	65.5	46.8	86.8
61	154.3	78.3	145.5#

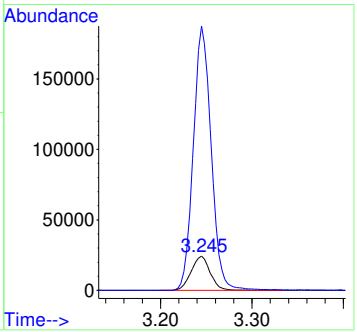


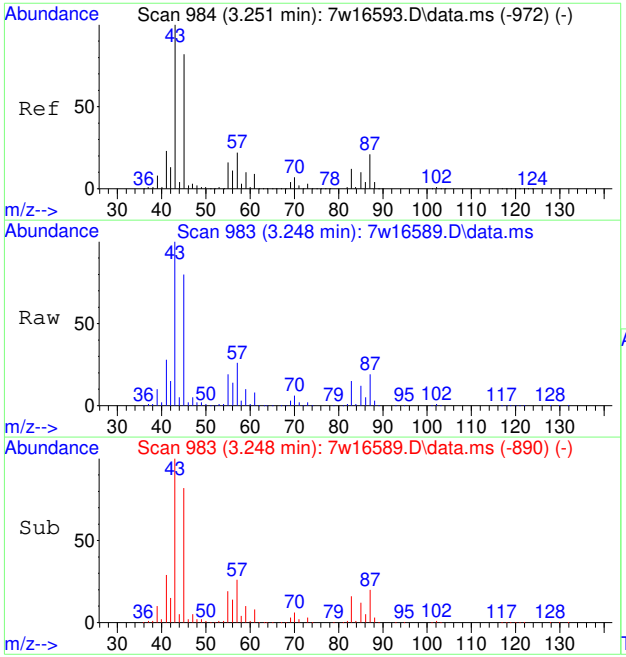


#43
DIISOPROPYL ETHER
Concen: 5.24 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 35230

Ion	Ratio	Lower	Upper
59	100		
45	724.5	532.1	988.1

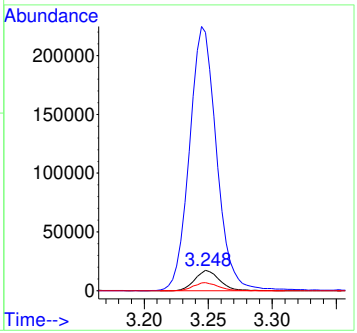


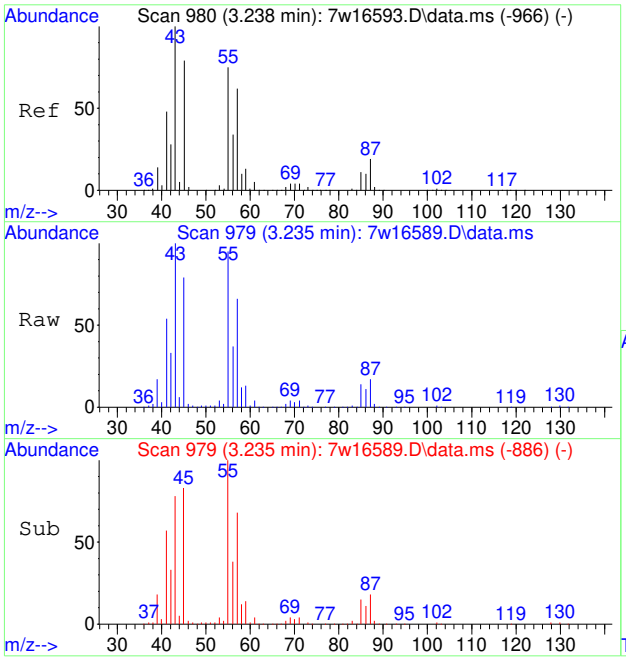


#44
ETHYL ACETATE
Concen: 4.98 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 61 Resp: 23700

Ion	Ratio	Lower	Upper
61	100		
43	1408.7	1127.5	2093.9
88	40.8	36.2	67.2

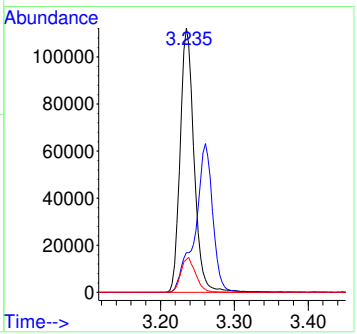


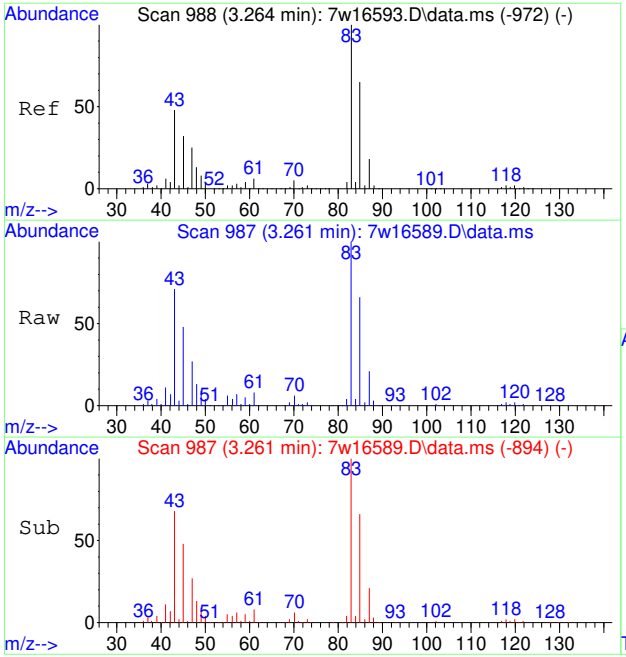


#45
METHYL ACRYLATE
Concen: 5.10 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 147700

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

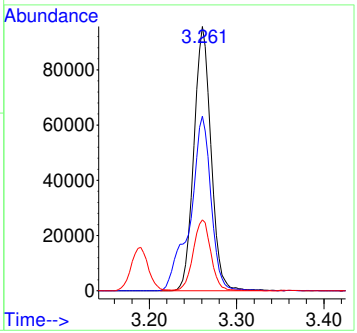


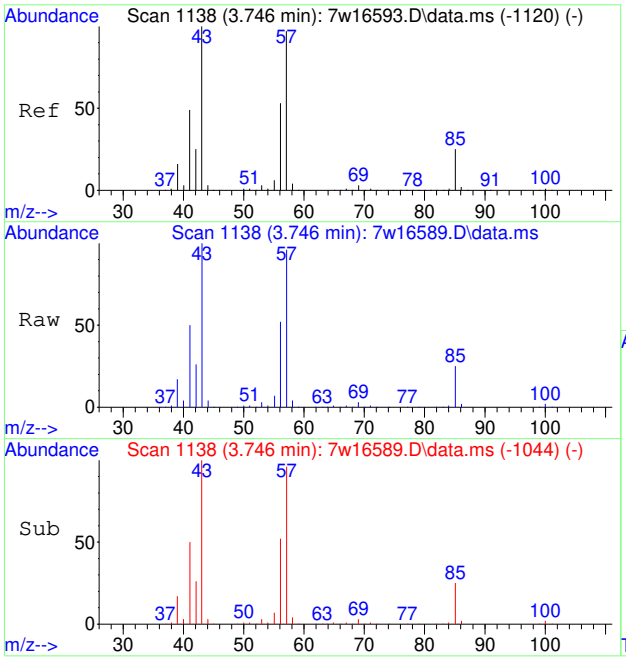


#46
CHLOROFORM
Concen: 5.10 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 130788

Ion	Ratio	Lower	Upper
83	100		
85	80.1	54.6	101.4
47	27.9	17.9	33.3

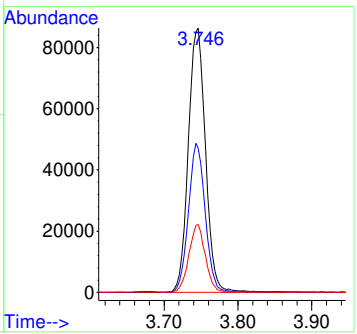


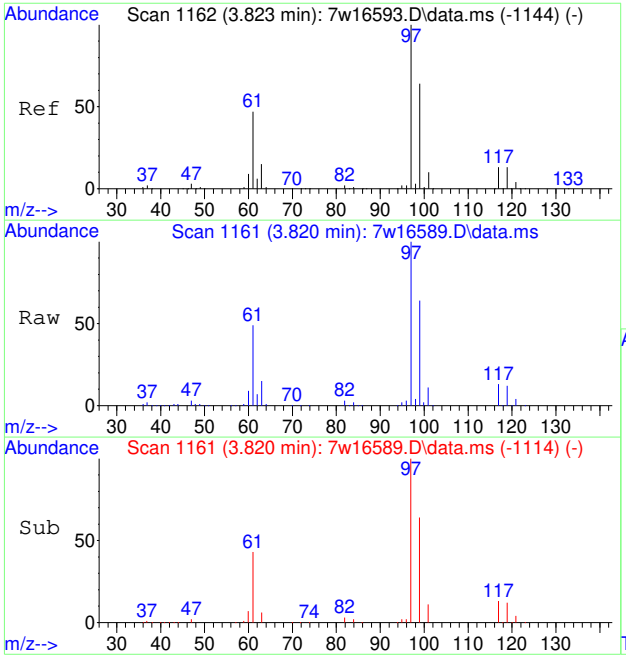


#47
2,4-DIMETHYLPENTANE
Concen: 5.24 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 139904

Ion	Ratio	Lower	Upper
57	100		
56	55.4	39.2	72.8
85	24.6	24.1	44.7

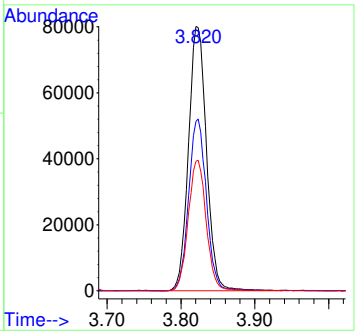


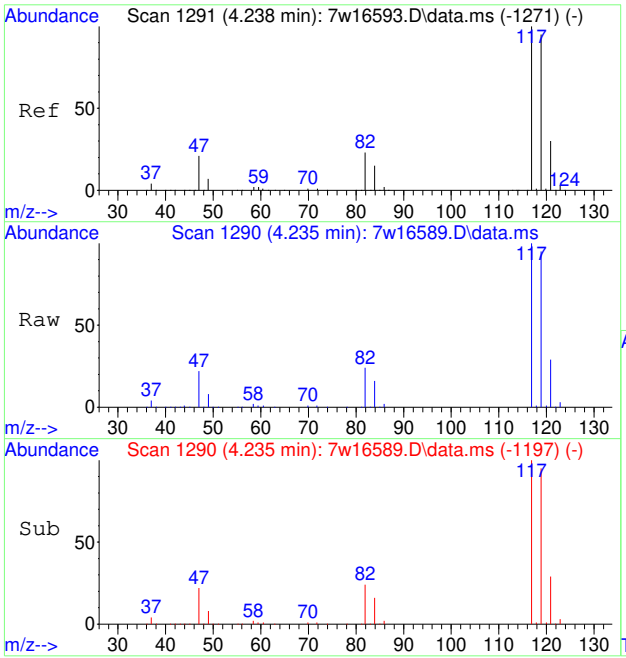


#48
1,1,1-TRICHLOROETHANE
Concen: 5.09 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 97 Resp: 135968

Ion	Ratio	Lower	Upper
97	100		
99	64.1	44.9	83.5
61	49.4	28.6	53.0

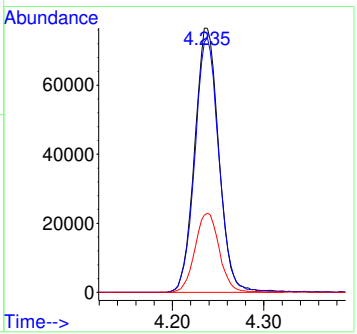


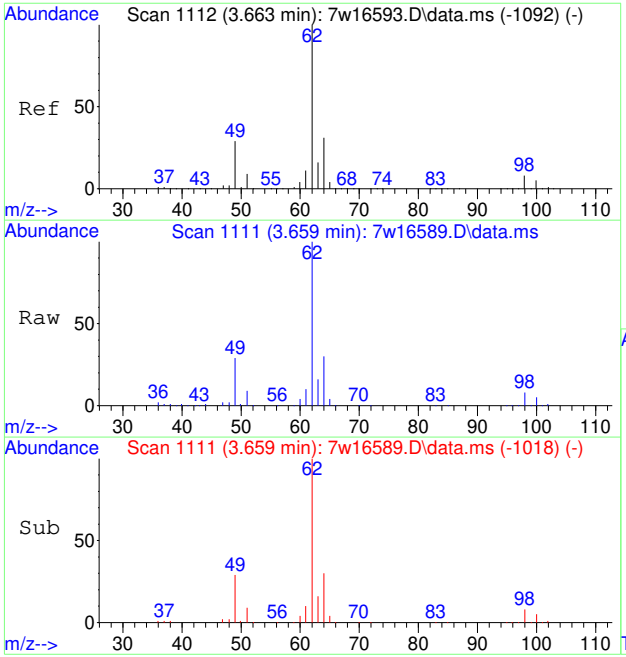


#49
CARBON TETRACHLORIDE
Concen: 4.91 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 140153

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

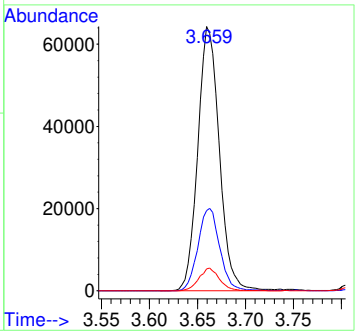


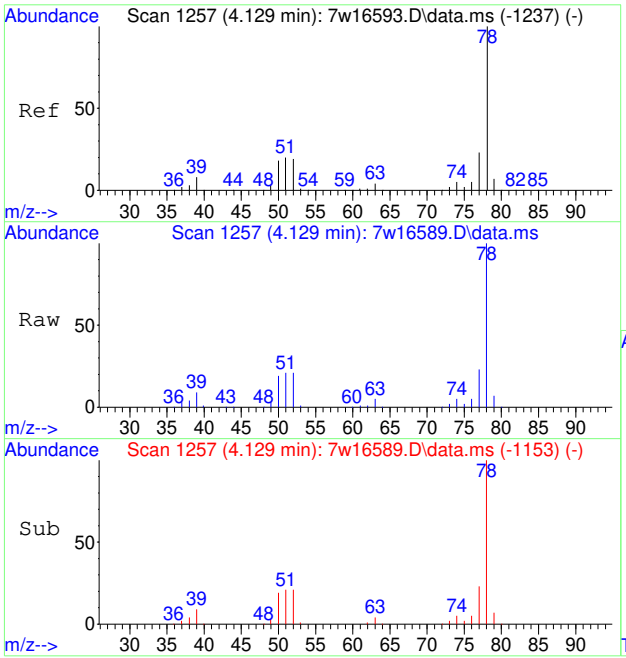


#50
1,2-DICHLOROETHANE
Concen: 5.00 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 100577

Ion	Ratio	Lower	Upper
62	100		
64	31.6	22.5	41.7
98	8.2	6.8	12.6

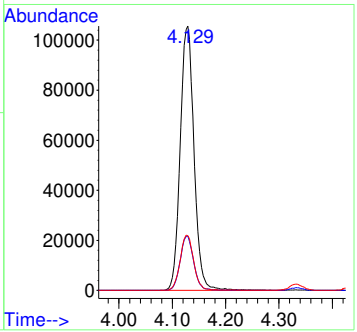


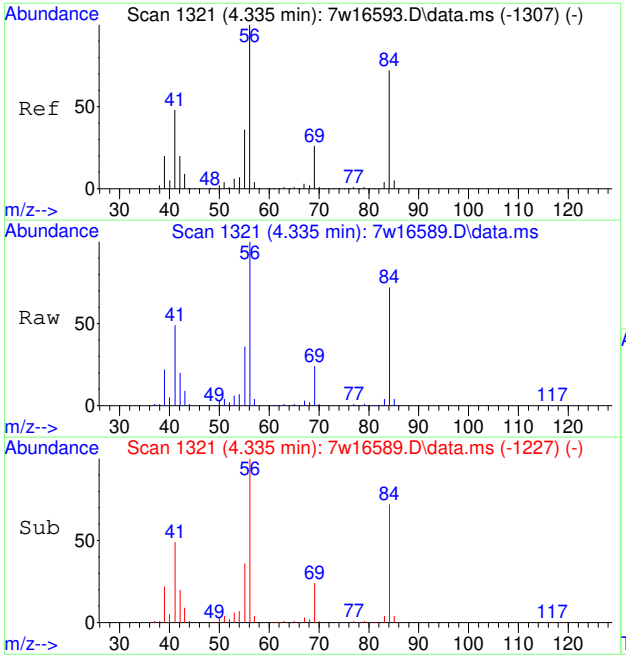


#51
BENZENE
Concen: 5.07 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 78 Resp: 190147

Ion	Ratio	Lower	Upper
78	100		
52	20.1	0.0	44.6
51	20.6	0.0	47.3

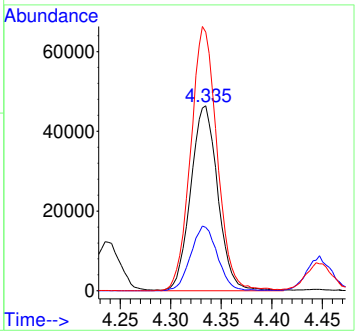


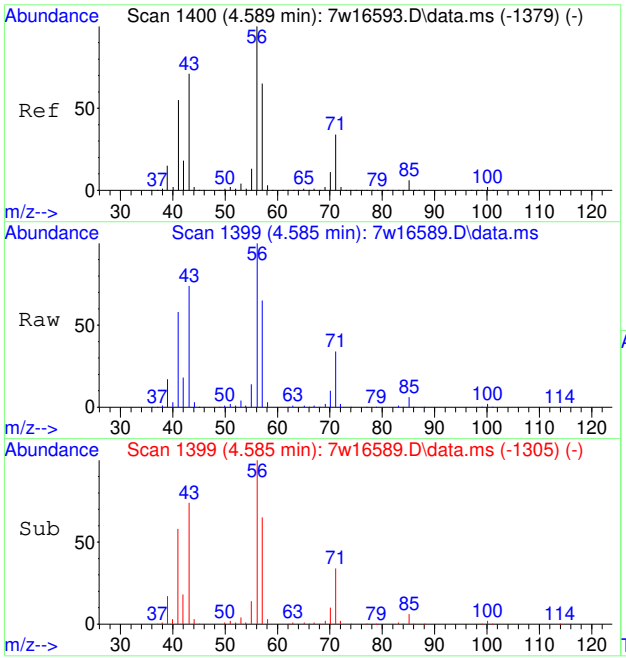


#53
CYCLOHEXANE
Concen: 5.03 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 86740

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	139.2	70.2	130.4#

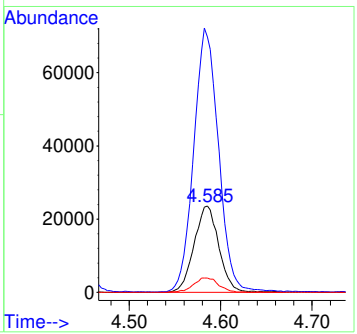


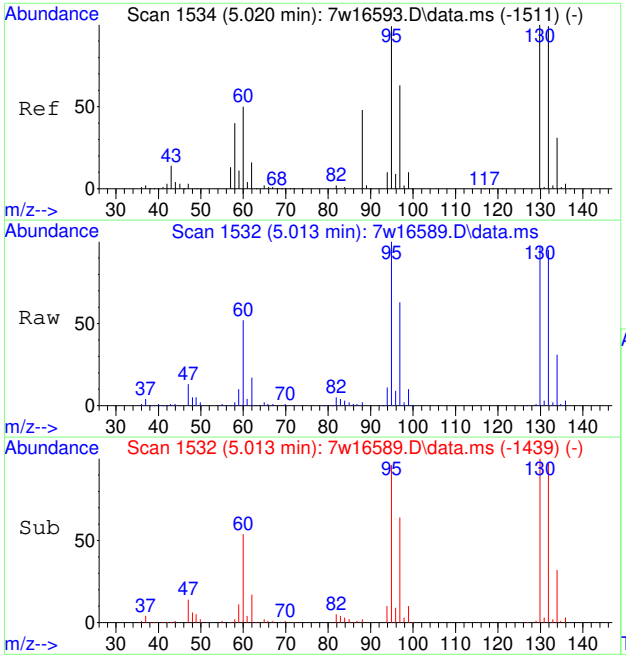


#54
2,3-DIMETHYLPENTANE
Concen: 5.09 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 71 Resp: 44676

Ion	Ratio	Lower	Upper
71	100		
56	304.2	171.4	318.4
85	17.1	12.6	23.4

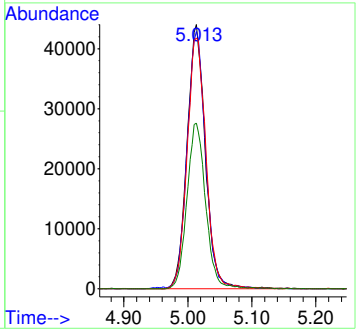


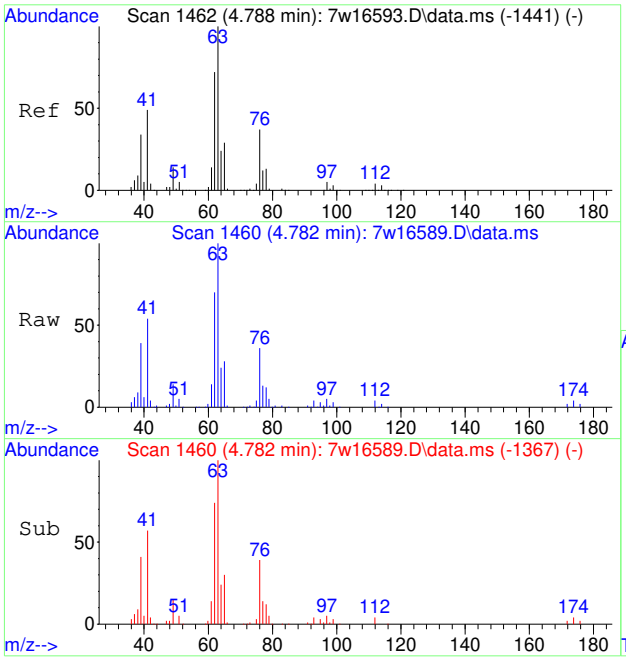


#55
TRICHLOROETHENE
Concen: 4.76 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 95 Resp: 87453

Ion	Ratio	Lower	Upper
95	100		
130	99.4	85.9	159.5
132	98.4	79.4	147.4
97	63.7	45.0	83.6

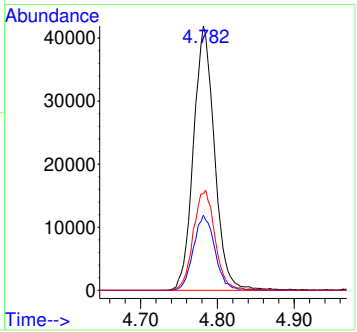


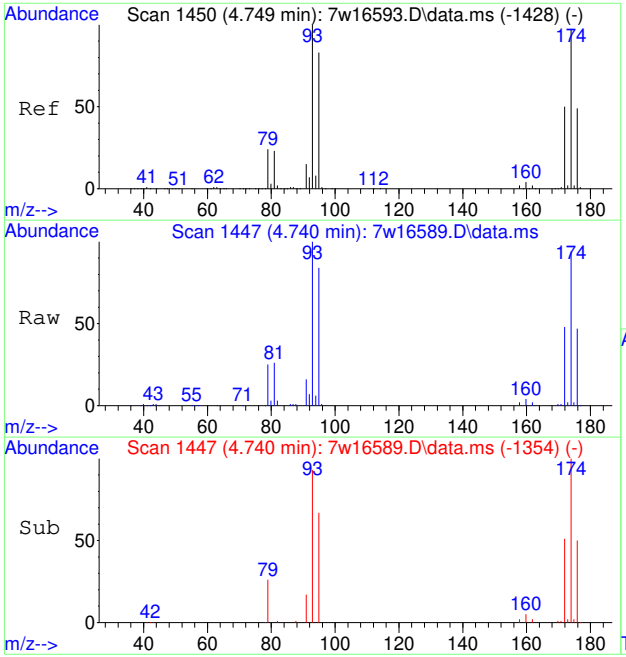


#56
1,2-DICHLOROPROPANE
Concen: 4.94 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 79932

Ion	Ratio	Lower	Upper
63	100		
65	29.2	22.6	42.0
76	39.2	31.8	59.0

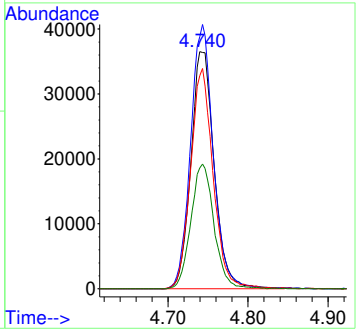


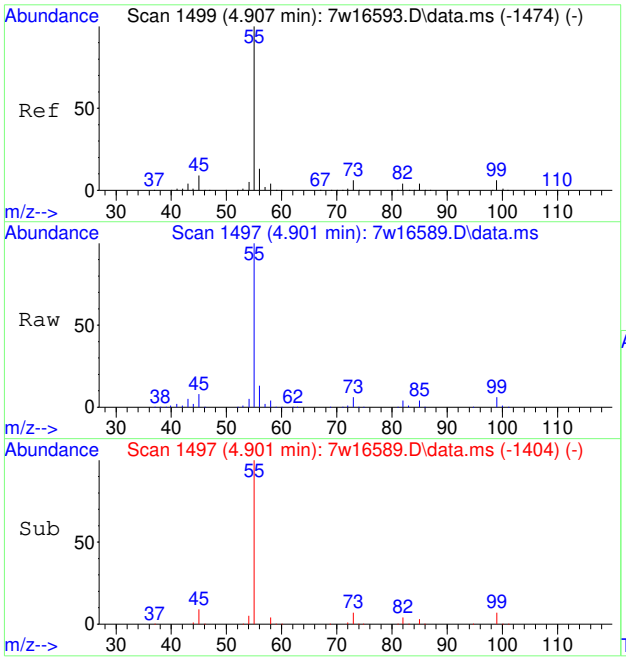


#57
DIBROMOMETHANE
Concen: 4.94 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:174 Resp: 74130

Ion	Ratio	Lower	Upper
174	100		
93	109.1	67.3	125.1
95	90.0	56.8	105.6
172	52.3	36.3	67.5

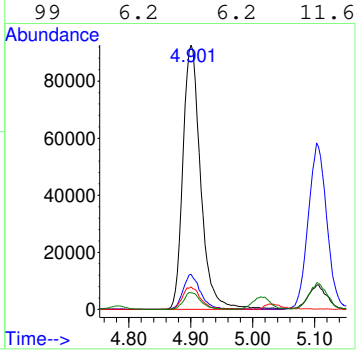


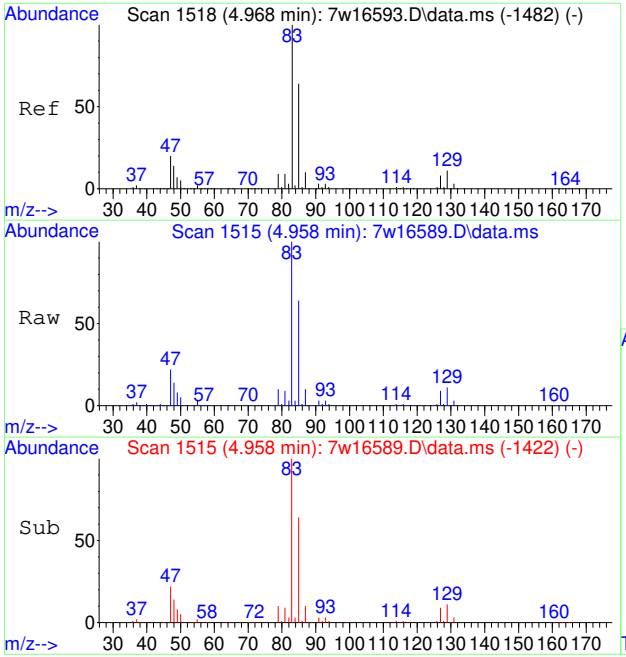


#58
ETHYL ACRYLATE
Concen: 5.03 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 184653

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.8	6.6	12.2
99	6.2	6.2	11.6#

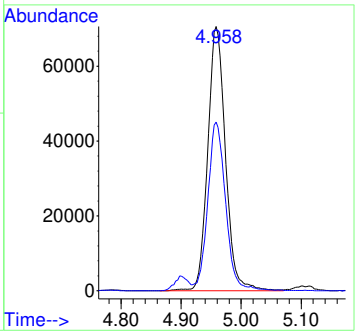


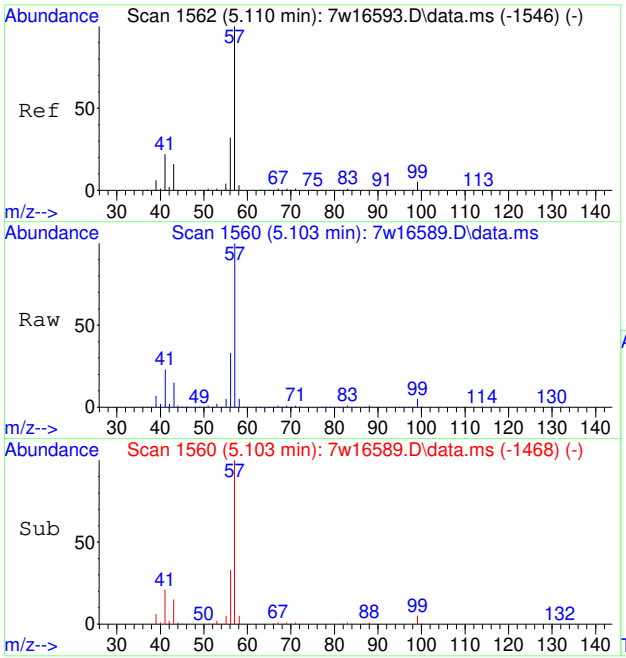


#59
BROMODICHLOROMETHANE
Concen: 4.78 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 145254

Ion	Ratio	Lower	Upper
83	100		
85	64.4	44.9	83.5

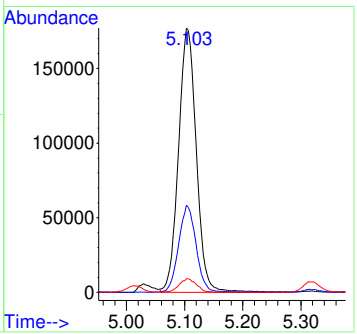


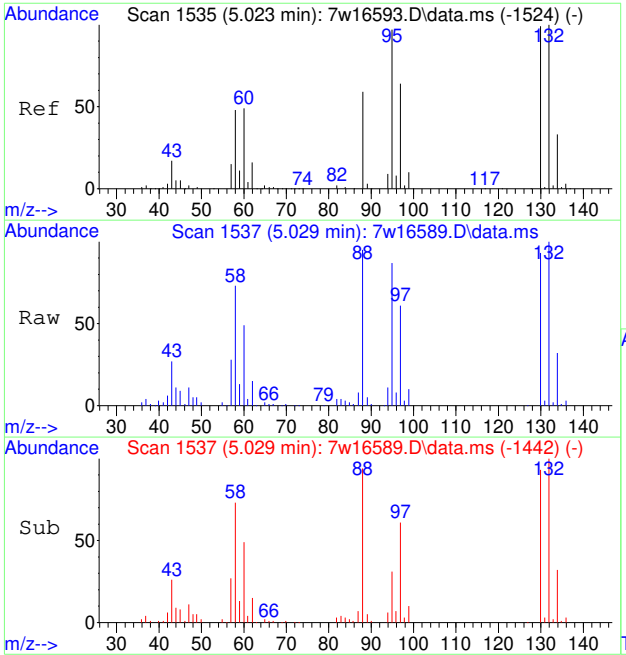


#60
2,2,4-TRIMETHYLPENTANE
Concen: 4.91 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 376202

Ion	Ratio	Lower	Upper
57	100		
56	32.4	24.4	45.2
99	5.1	5.2	9.6#

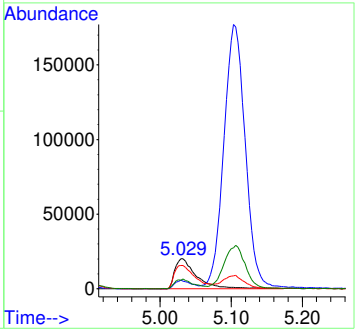


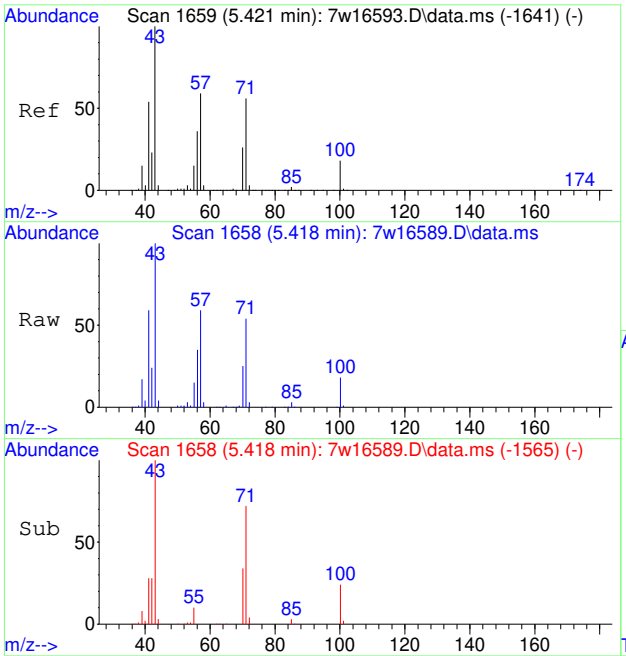


#61
1,4-DIOXANE
Concen: 4.76 PPBV
RT: 5.029 min Scan# 1537
Delta R.T. 0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 88 Resp: 43182

Ion	Ratio	Lower	Upper
88	100		
57	22.6	13.1	24.3
58	75.6	39.1	72.5#
43	27.0	18.3	33.9

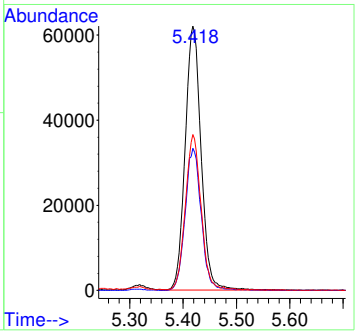


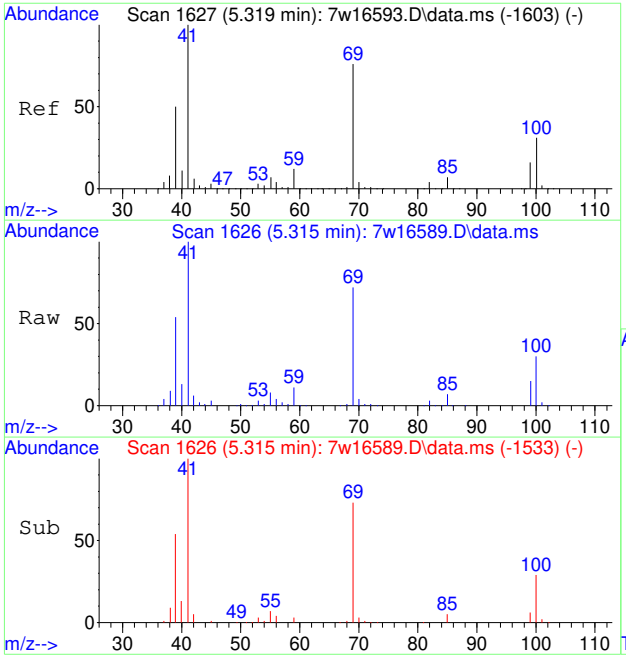


#62
HEPTANE
Concen: 5.06 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 129447

Ion	Ratio	Lower	Upper
43	100		
71	54.3	45.0	83.6
57	58.0	37.2	69.0

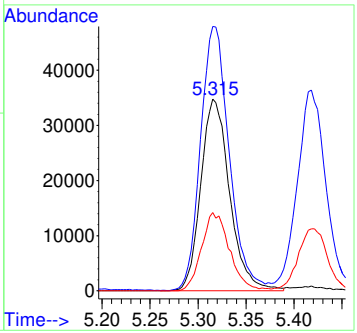


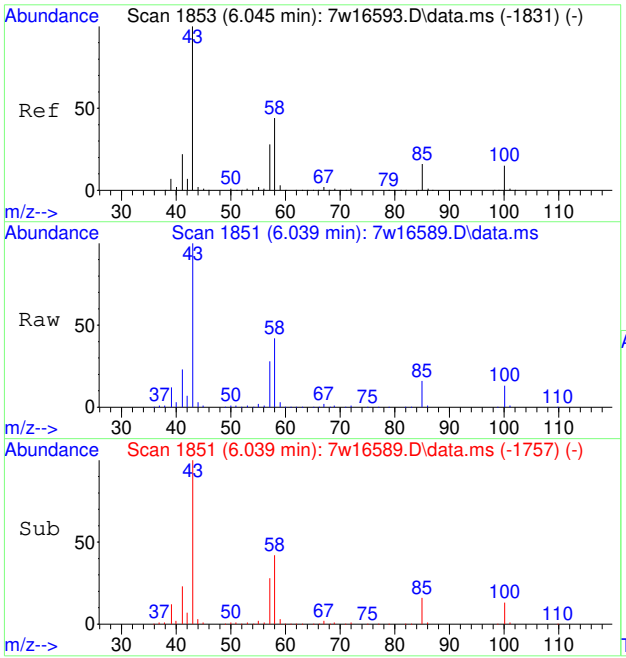


#63
METHYL METHACRYLATE
Concen: 4.95 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 72765

Ion	Ratio	Lower	Upper
69	100		
41	136.6	84.3	156.5
100	39.7	30.8	57.2

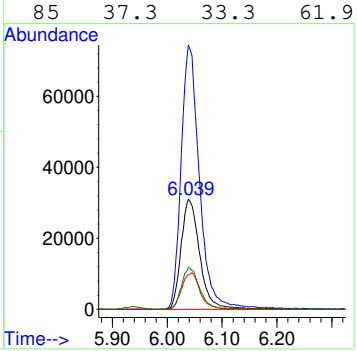


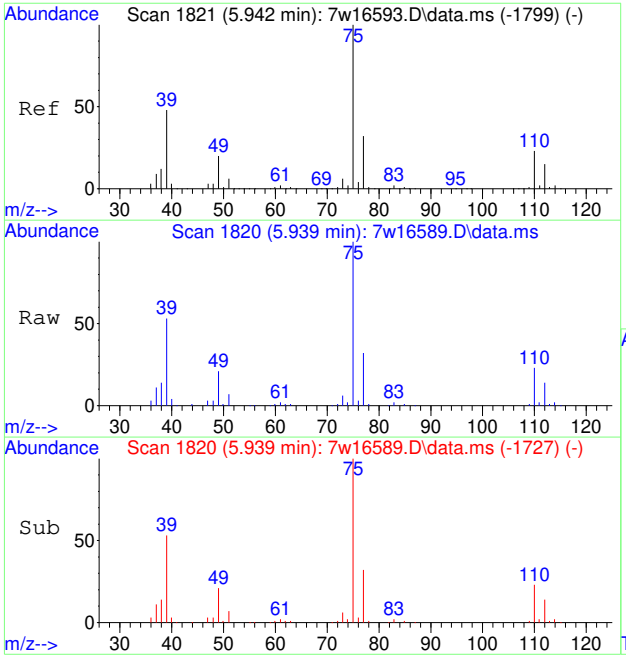


#64
METHYL ISOBUTYL KETONE
Concen: 4.88 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 73624

Ion	Ratio	Lower	Upper
58	100		
43	236.1	193.8	360.0
100	33.1	32.8	60.8
85	37.3	33.3	61.9

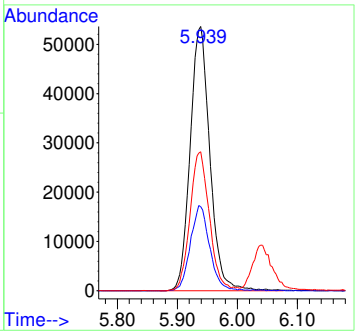


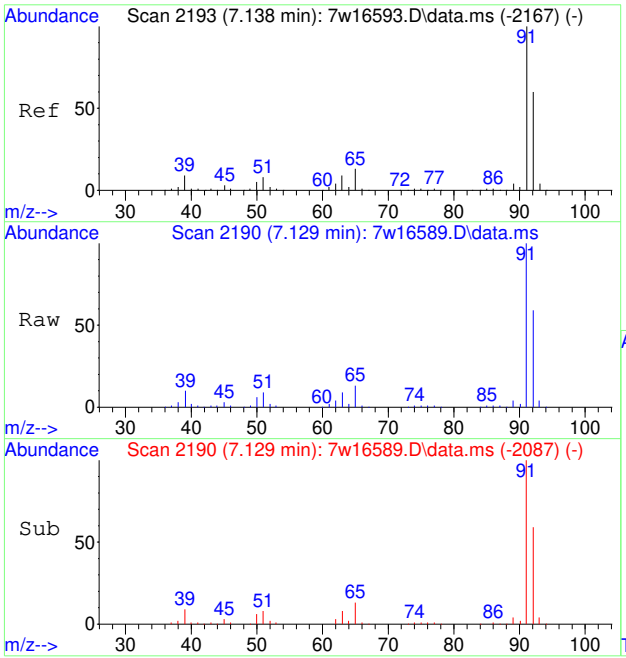


#65
CIS-1,3-DICHLOROPROPENE
Concen: 4.78 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 122774

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.8	38.5	71.5

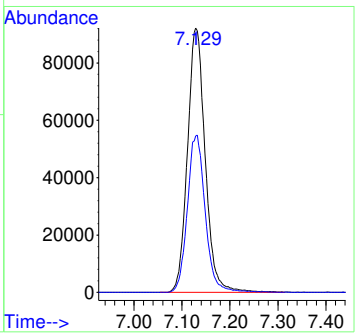


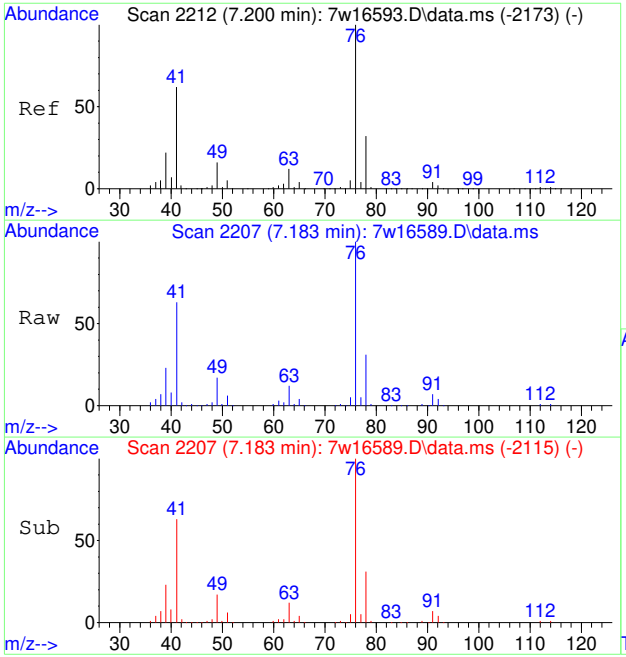


#66
TOLUENE
Concen: 5.09 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 237199

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

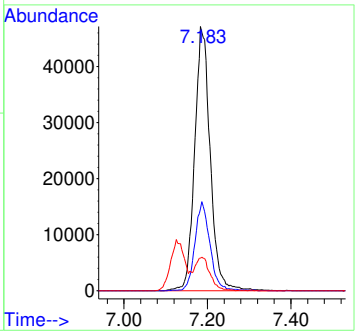


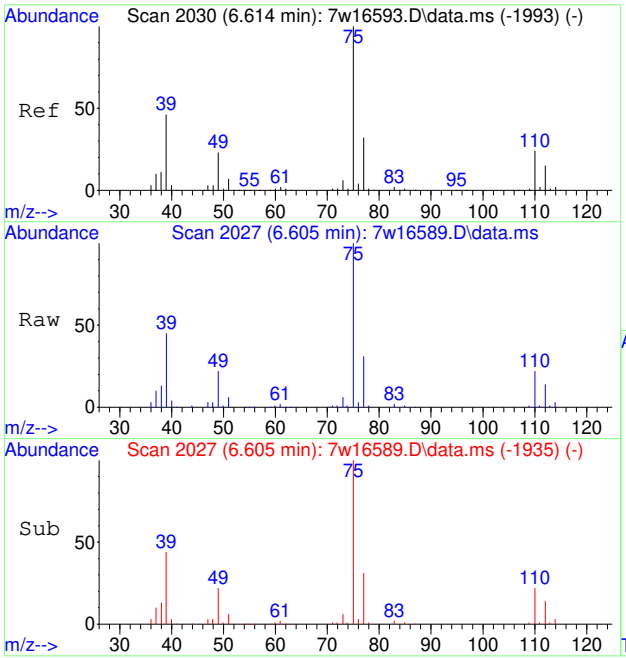


#67
1,3-DICHLOROPROPANE
Concen: 5.06 PPBV
RT: 7.183 min Scan# 2207
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 121971

Ion	Ratio	Lower	Upper
76	100		
78	32.7	22.1	41.1
63	12.0	8.0	14.8

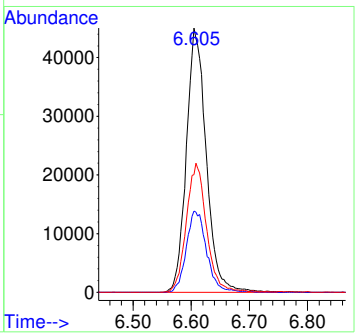


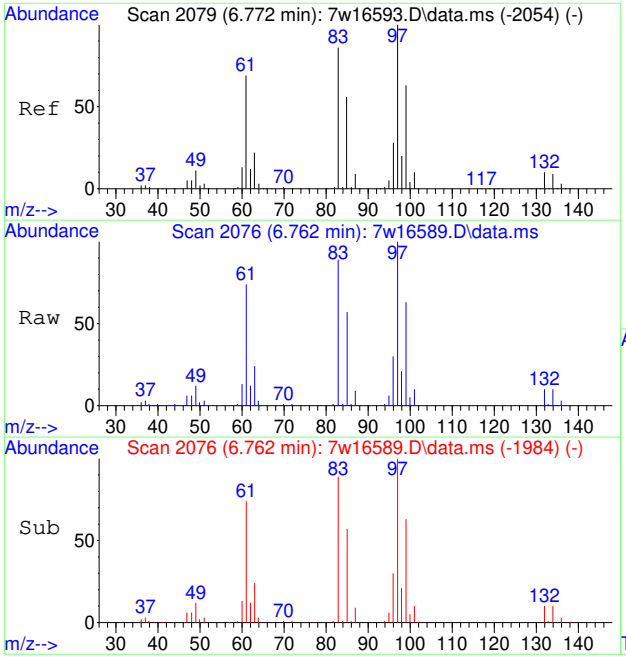


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 4.46 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 107017

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.5	41.7
39	50.0	37.2	69.0

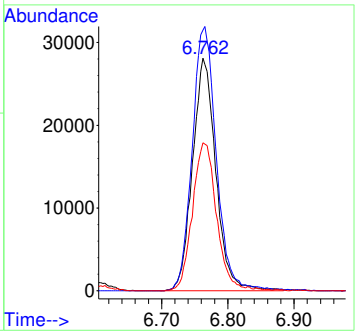


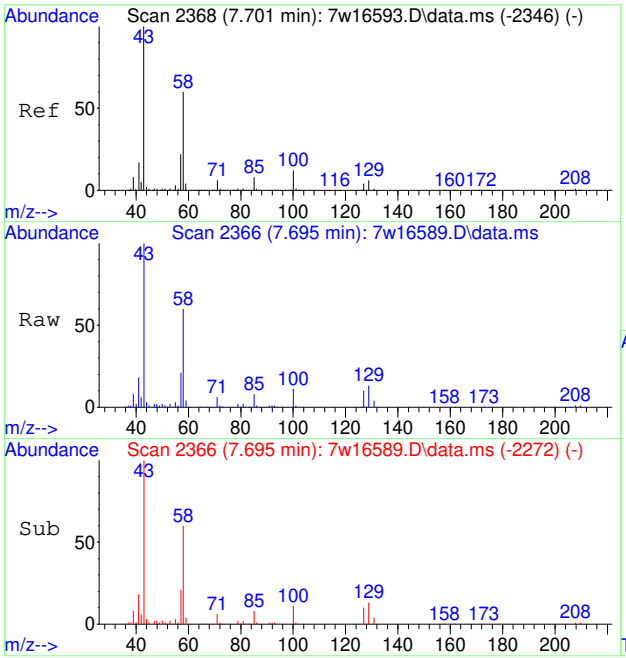


#69
1,1,2-TRICHLOROETHANE
Concen: 5.00 PPBV
RT: 6.762 min Scan# 2076
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 68995

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	65.6	45.5	84.5

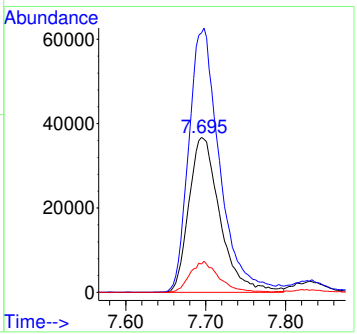


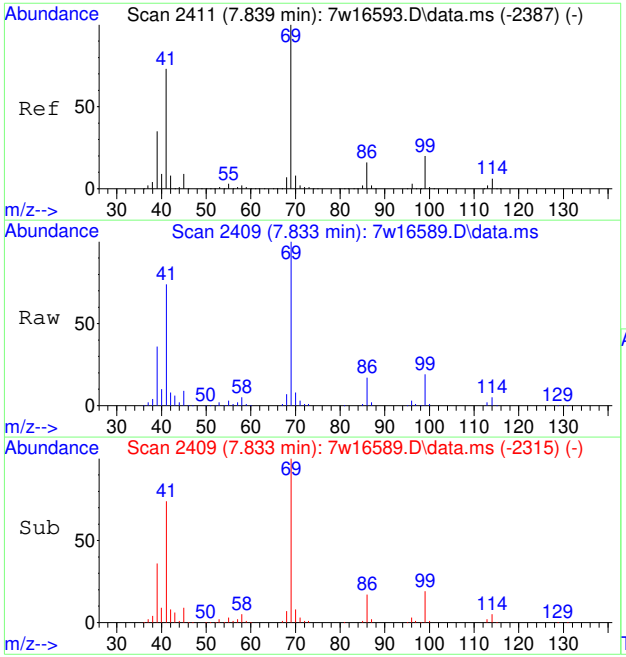


#70
2-HEXANONE
Concen: 5.01 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 99491

Ion	Ratio	Lower	Upper
58	100		
43	169.1	141.7	263.3
100	18.7	18.9	35.1#

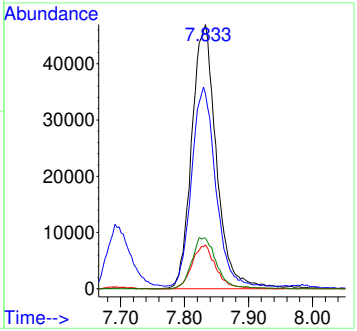


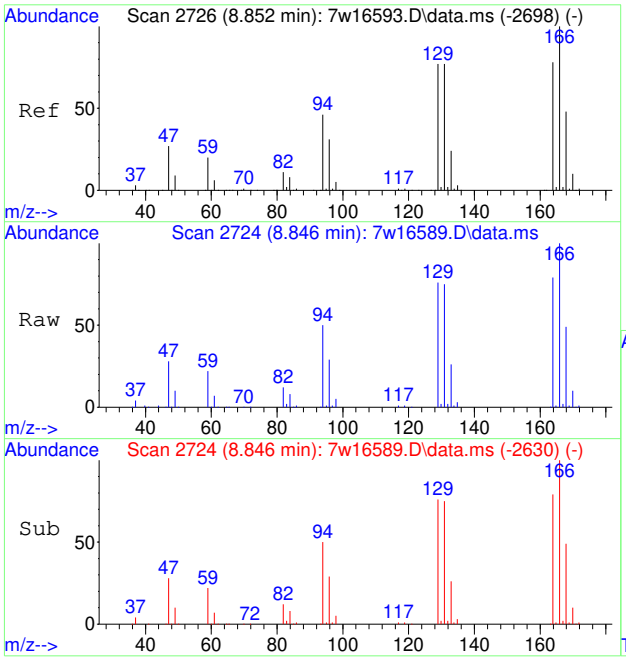


#71
ETHYL METHACRYLATE
Concen: 4.97 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 125849

Ion	Ratio	Lower	Upper
69	100		
41	76.4	49.3	91.6
86	16.1	11.6	21.6
99	19.3	13.4	24.8

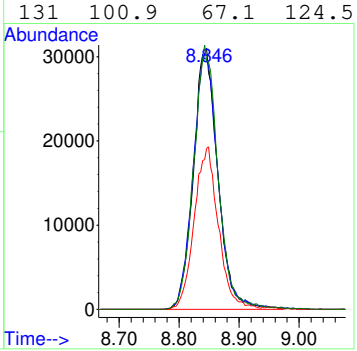


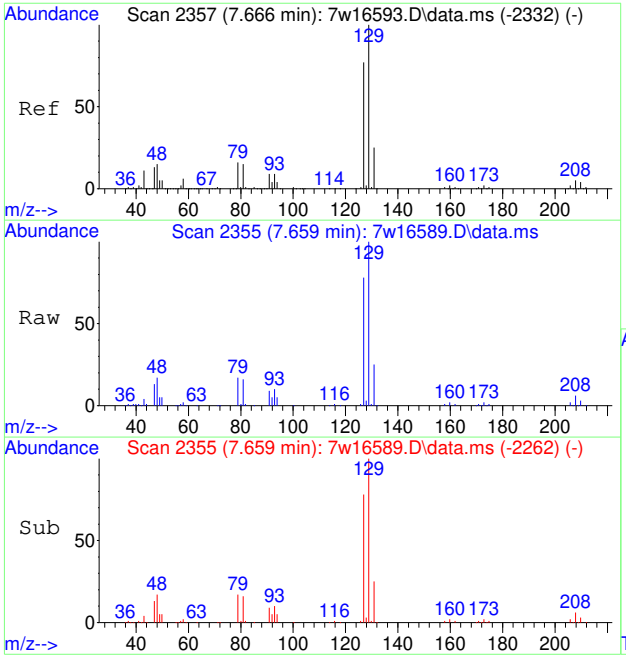


#72
TETRACHLOROETHENE
Concen: 5.13 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:164 Resp: 87888

Ion	Ratio	Lower	Upper
164	100		
129	100.6	69.7	129.5
168	61.3	43.4	80.6
131	100.9	67.1	124.5

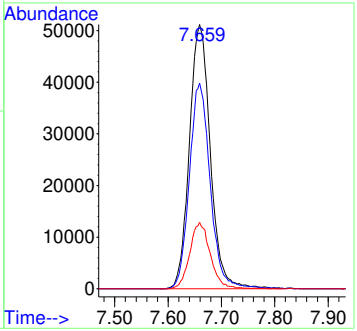


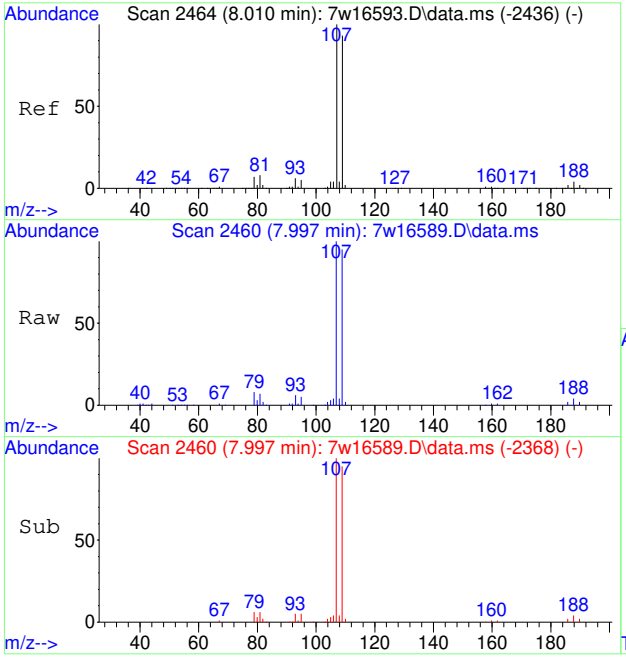


#73
DIBROMOCHLOROMETHANE
Concen: 4.88 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:129 Resp: 139976

Ion	Ratio	Lower	Upper
129	100		
127	77.4	53.0	98.4
131	24.6	16.9	31.3

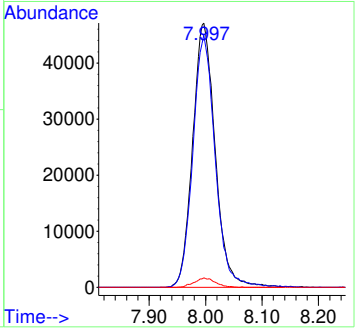


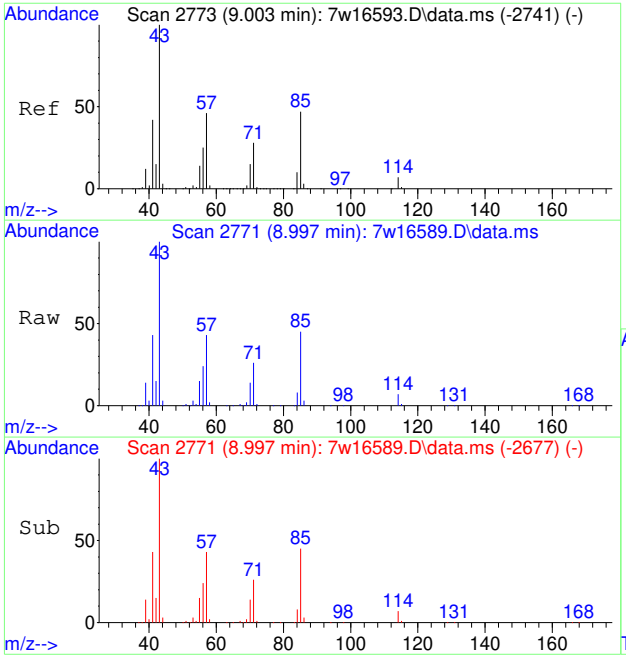


#74
1,2-DIBROMOETHANE
Concen: 5.30 PPBV
RT: 7.997 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:107 Resp: 130464

Ion	Ratio	Lower	Upper
107	100		
109	94.7	65.7	122.1
188	3.4	2.4	4.4

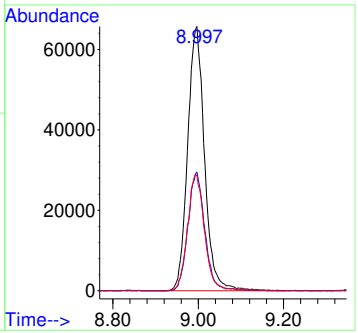


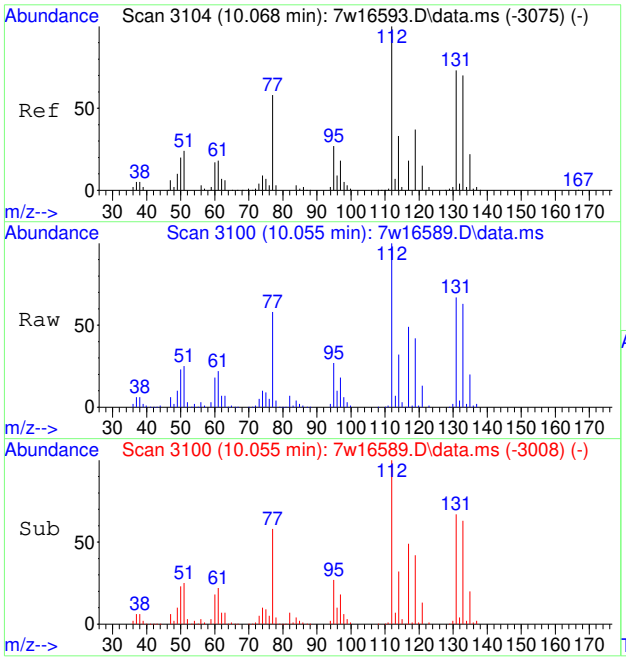


#75
OCTANE
Concen: 5.16 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 180997

Ion	Ratio	Lower	Upper
43	100		
85	45.1	36.5	67.9
57	44.3	27.6	51.2

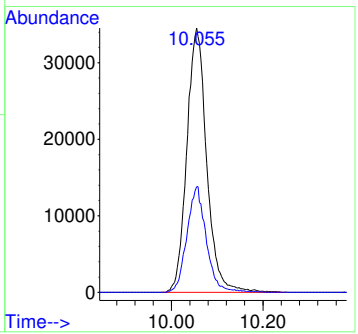


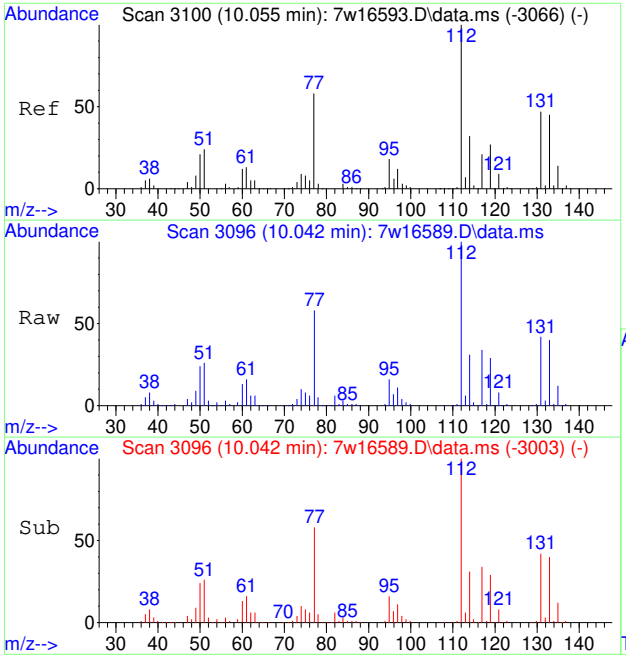


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.17 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:131 Resp: 104080

Ion	Ratio	Lower	Upper
131	100		
95	39.0	23.7	43.9

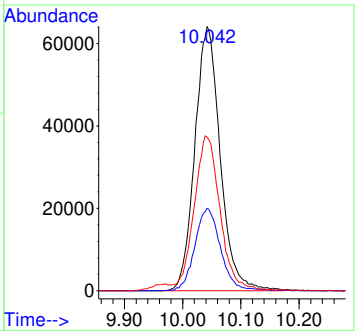


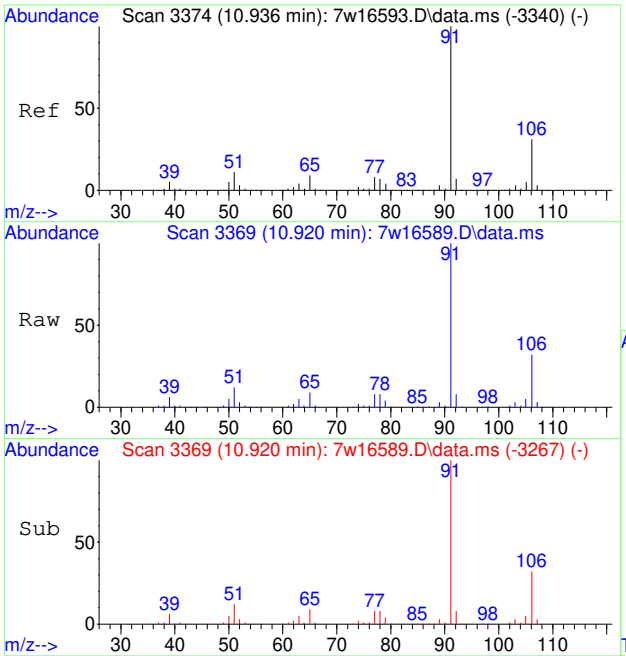


#78
CHLOROBENZENE
Concen: 5.29 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:112 Resp: 194976

Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.9	42.5
77	60.2	34.4	63.8

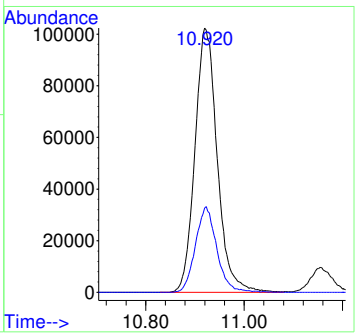


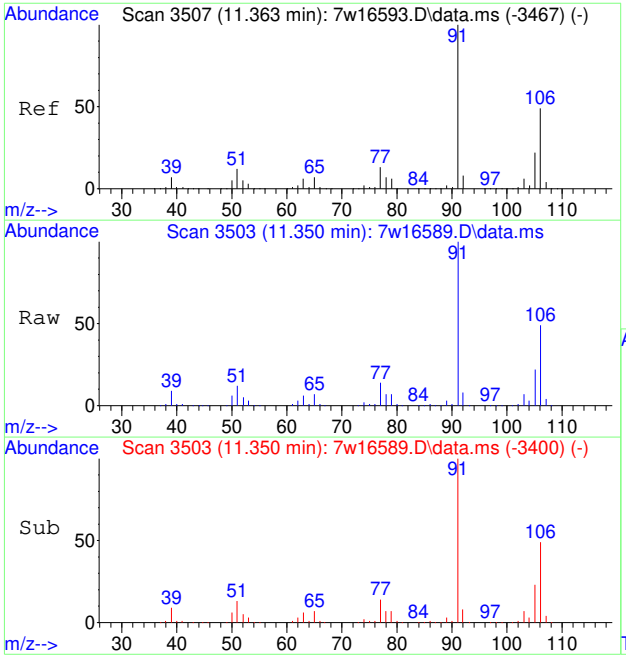


#79
ETHYLBENZENE
Concen: 5.30 PPBV
RT: 10.920 min Scan# 3369
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 322003

Ion	Ratio	Lower	Upper
91	100		
106	31.2	2.8	62.8

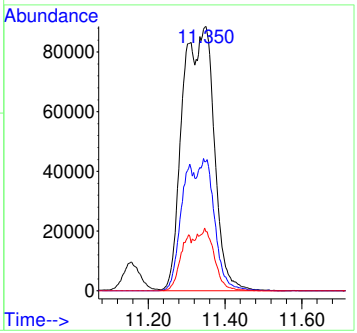


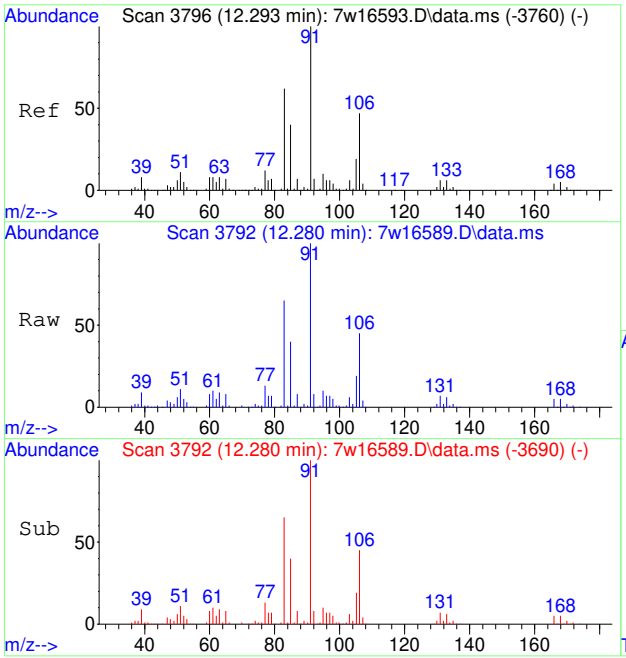


#80
M,P-XYLENE
Concen: 10.38 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 506054

Ion	Ratio	Lower	Upper
91	100		
106	28.2	0.0	58.7
105	12.9	0.0	43.2

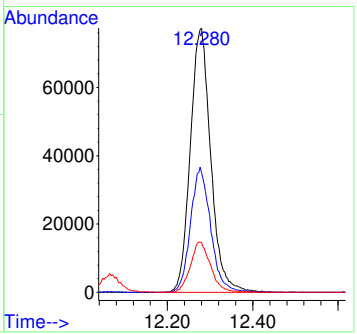


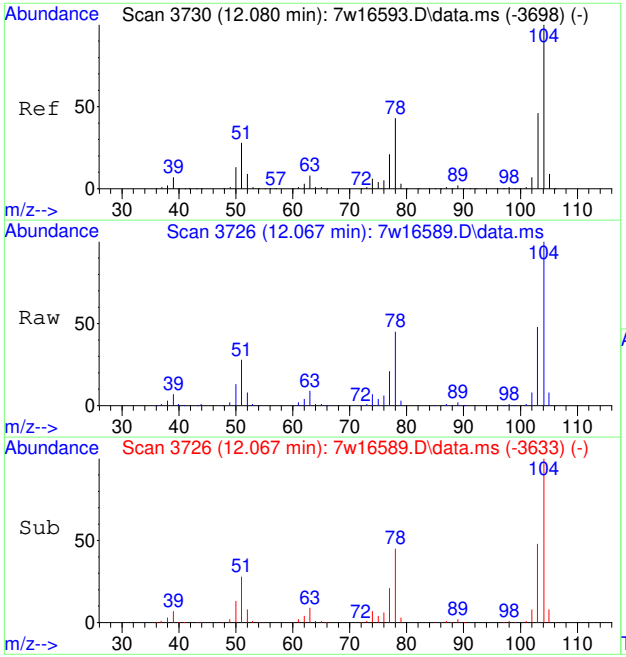


#81
O-XYLENE
Concen: 5.40 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 257748

Ion	Ratio	Lower	Upper
91	100		
106	45.3	34.1	63.3
105	19.0	14.6	27.2

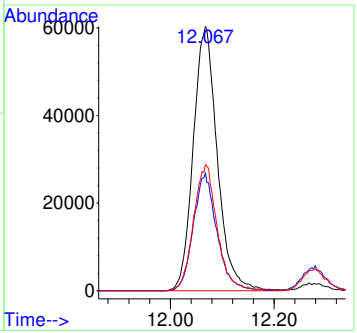


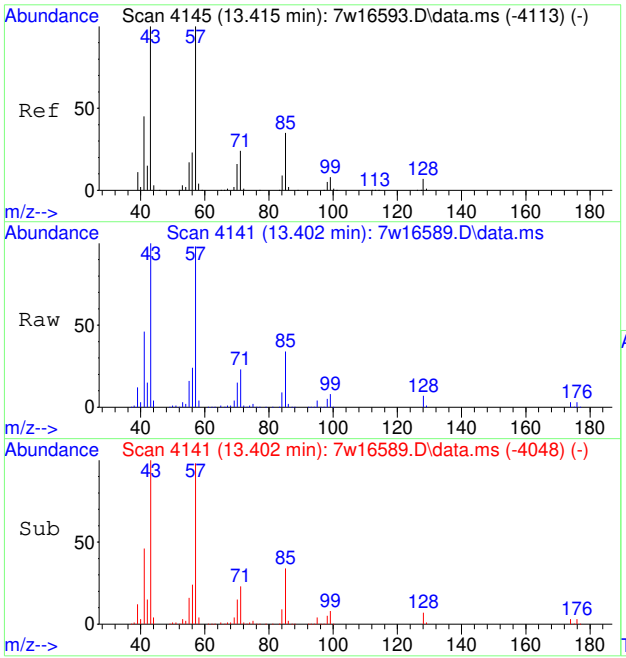


#82
STYRENE
Concen: 5.23 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:104 Resp: 194546

Ion	Ratio	Lower	Upper
104	100		
78	43.5	25.3	46.9
103	47.1	33.2	61.7

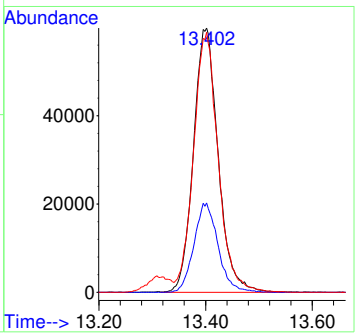


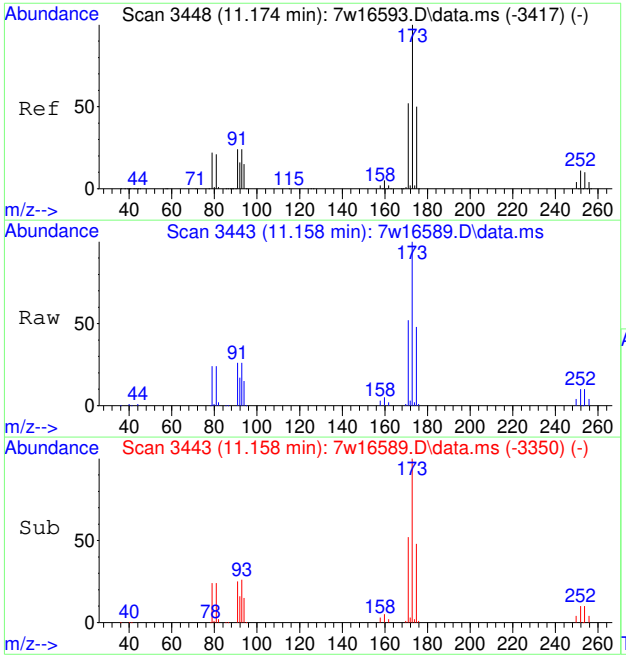


#83
NONANE
Concen: 5.27 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 192916

Ion	Ratio	Lower	Upper
43	100		
85	33.0	27.6	51.2
57	98.1	56.4	104.7

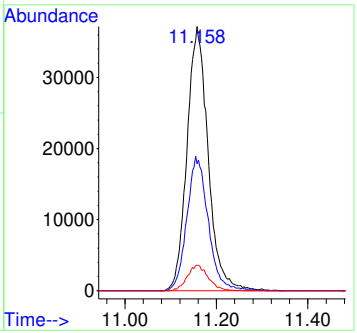


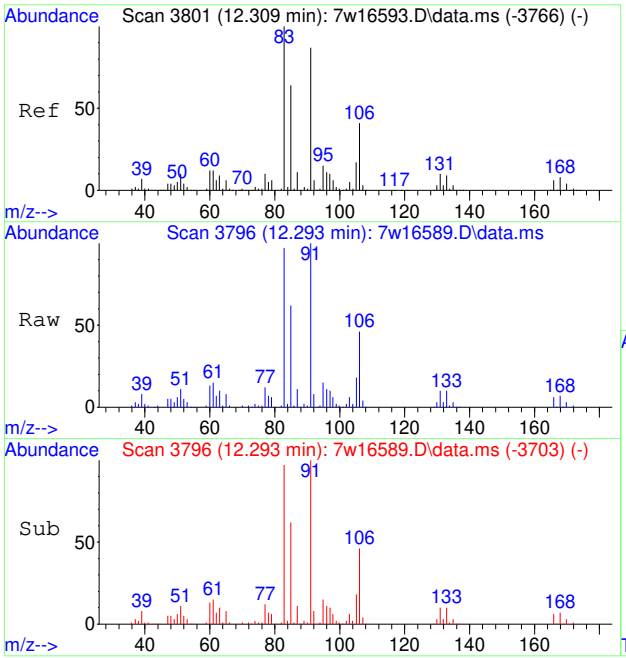


#84
BROMOFORM
Concen: 4.90 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:173 Resp: 119167

Ion	Ratio	Lower	Upper
173	100		
175	51.2	33.0	61.4
254	9.7	5.9	10.9

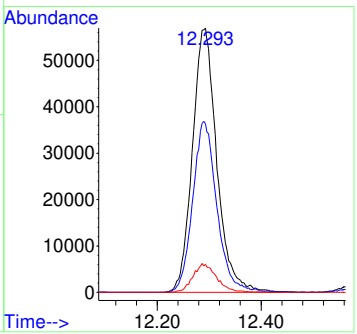


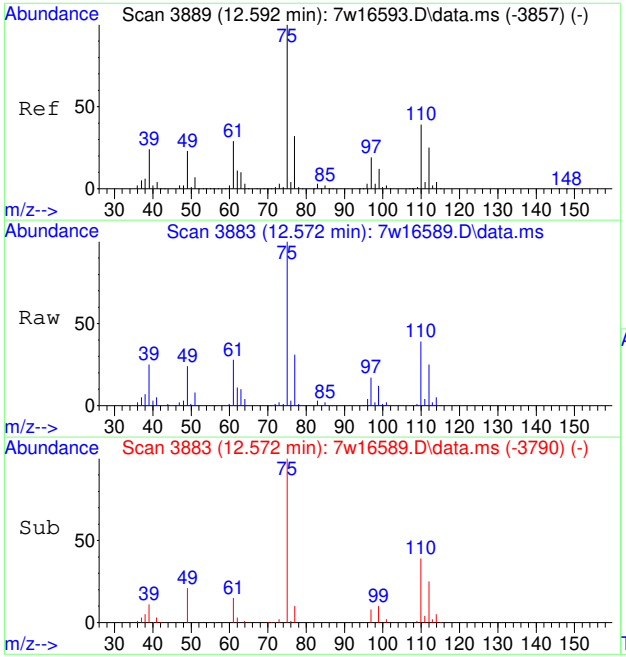


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 5.35 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 186265

Ion	Ratio	Lower	Upper
83	100		
85	64.3	44.6	82.8
131	10.6	8.0	14.8

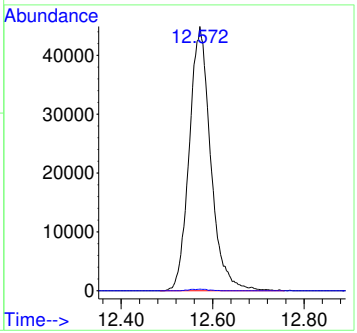


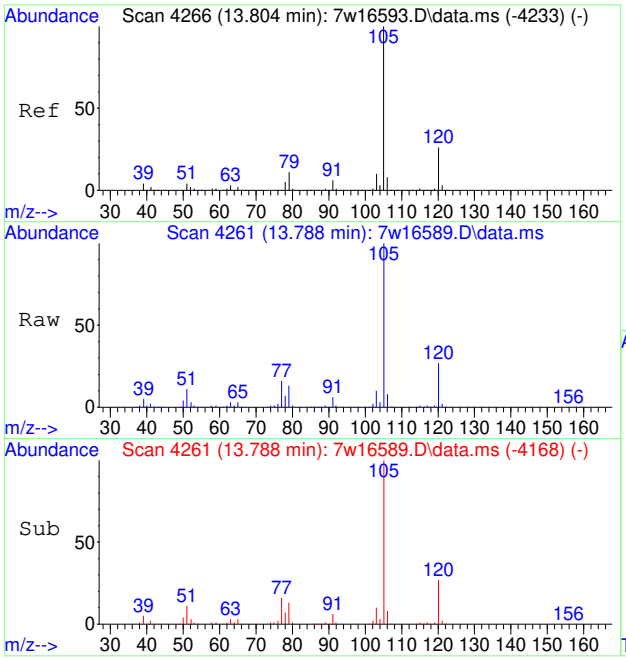


#86
1,2,3-TRICHLOROPROPANE
Concen: 5.34 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 146270

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

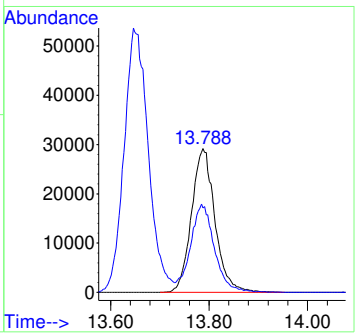


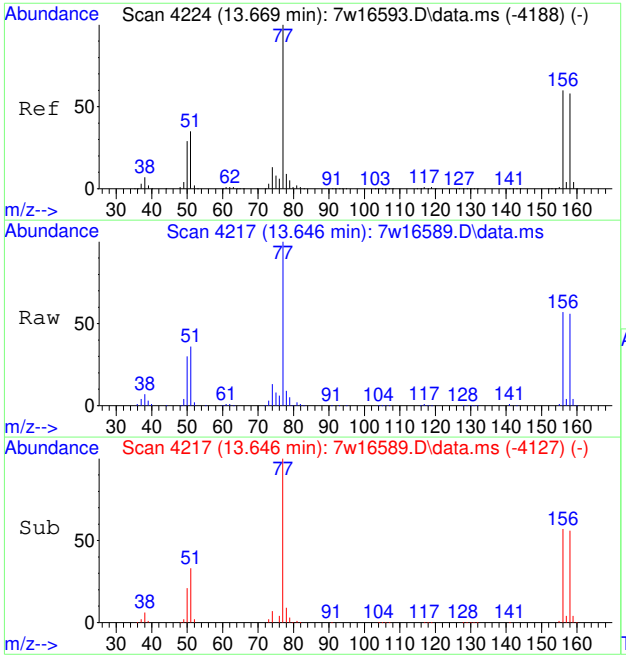


#88
ISOPROPYLBENZENE
Concen: 5.28 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 96509

Ion	Ratio	Lower	Upper
120	100		
77	62.3	36.0	67.0

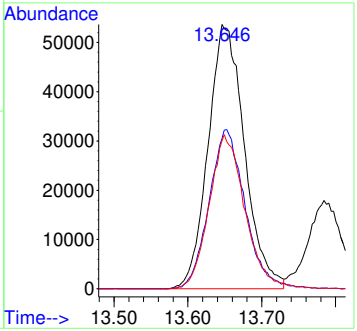


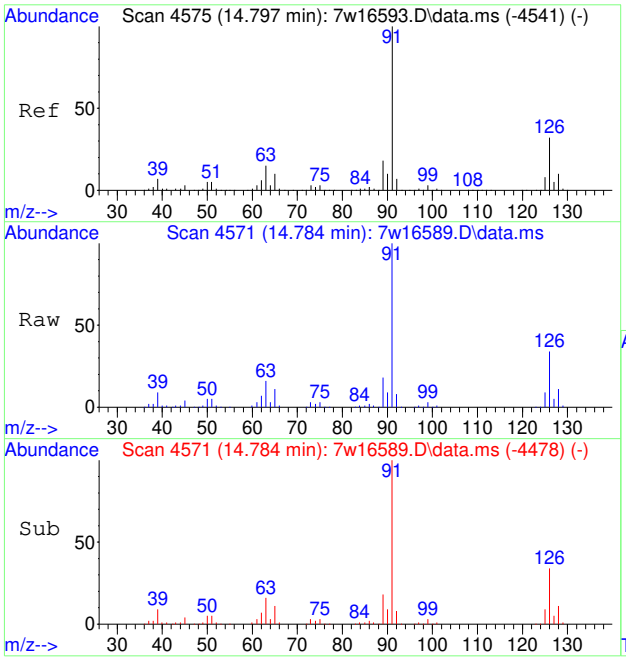


#89
BROMOBENZENE
Concen: 5.30 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 77 Resp: 183496

Ion	Ratio	Lower	Upper
77	100		
156	59.7	57.9	107.5
158	57.4	55.7	103.5

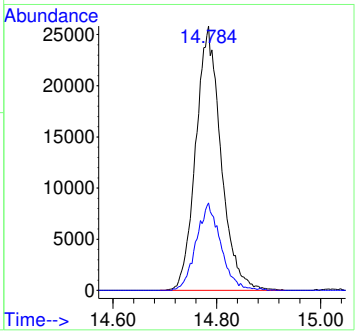


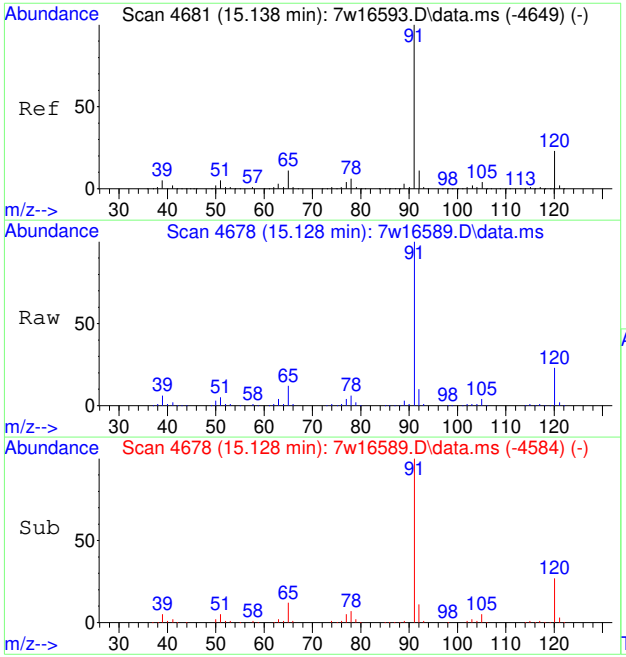


#90
2-CHLOROTOLUENE
Concen: 5.02 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:126 Resp: 86951

Ion	Ratio	Lower	Upper
126	100		
128	32.5	22.7	42.1

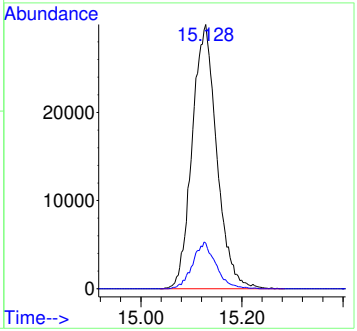


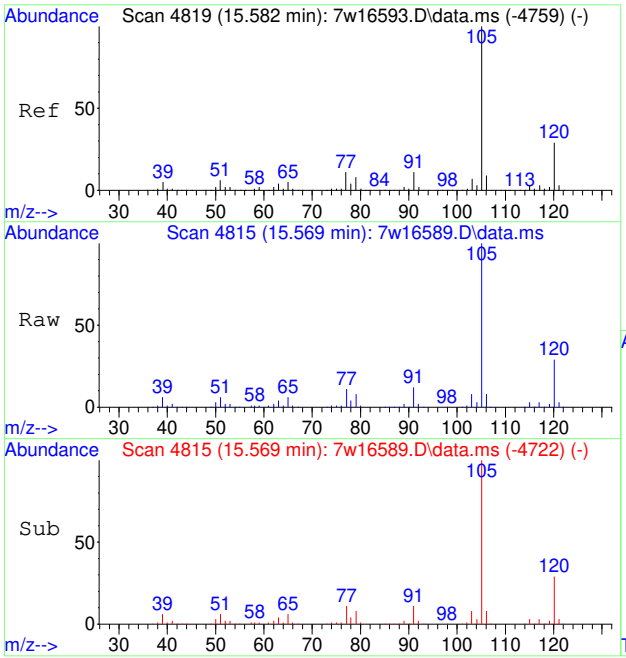


#91
N-PROPYLBENZENE
Concen: 5.12 PPBV
RT: 15.128 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 101472

Ion	Ratio	Lower	Upper
120	100		
105	16.7	10.6	19.6

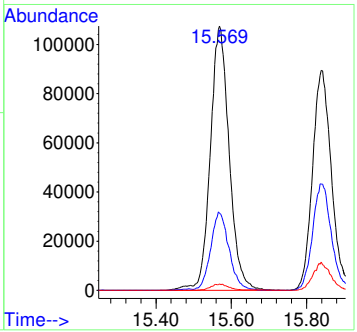


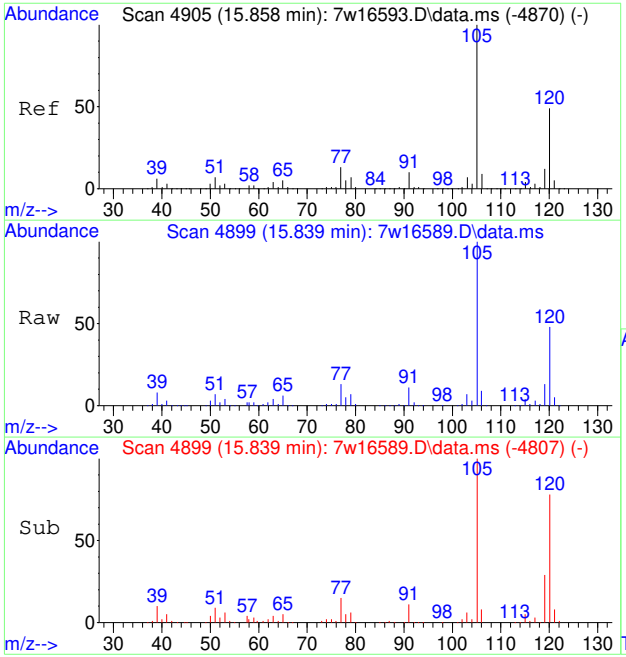


#92
4-ETHYLTOLUENE
Concen: 5.20 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 373811

Ion	Ratio	Lower	Upper
105	100		
120	29.3	21.8	40.4
119	2.4	1.7	3.1

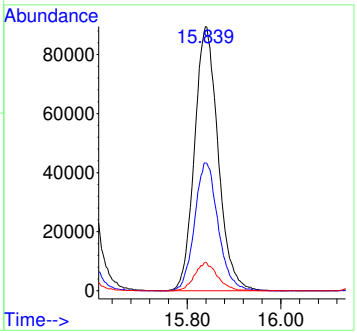


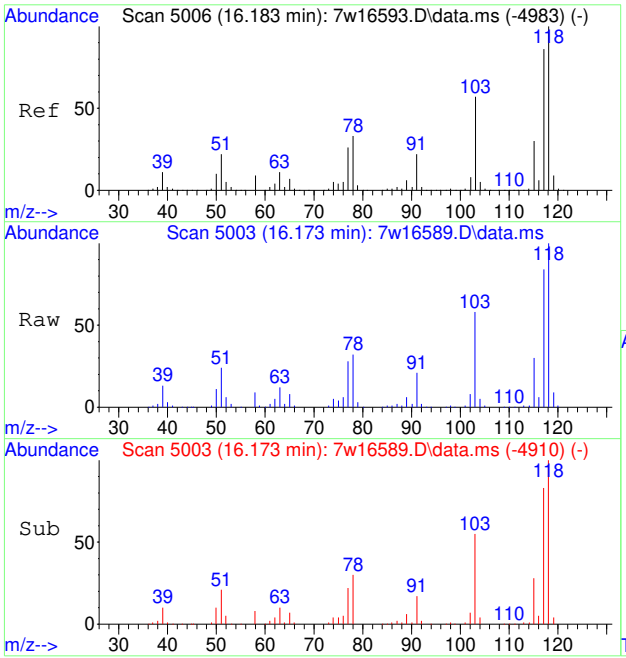


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.22 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 312677

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.5	7.5	13.9

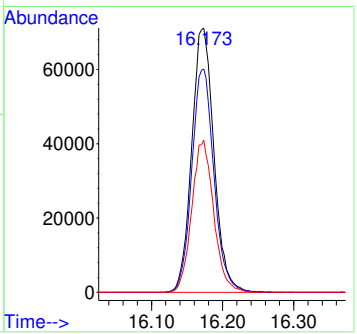


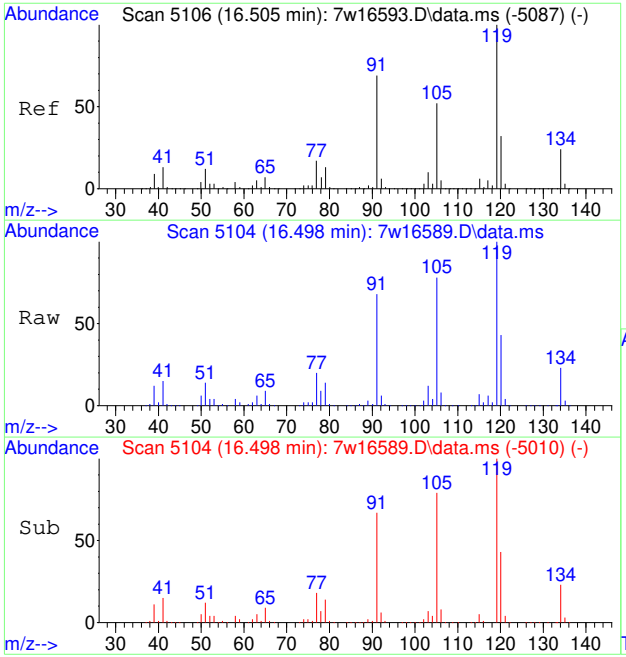


#94
ALPHA-METHYLSTYRENE
Concen: 5.06 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:118 Resp: 154689

Ion	Ratio	Lower	Upper
118	100		
117	84.3	59.9	111.3
103	56.7	36.2	67.2

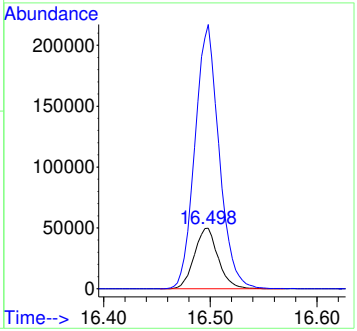


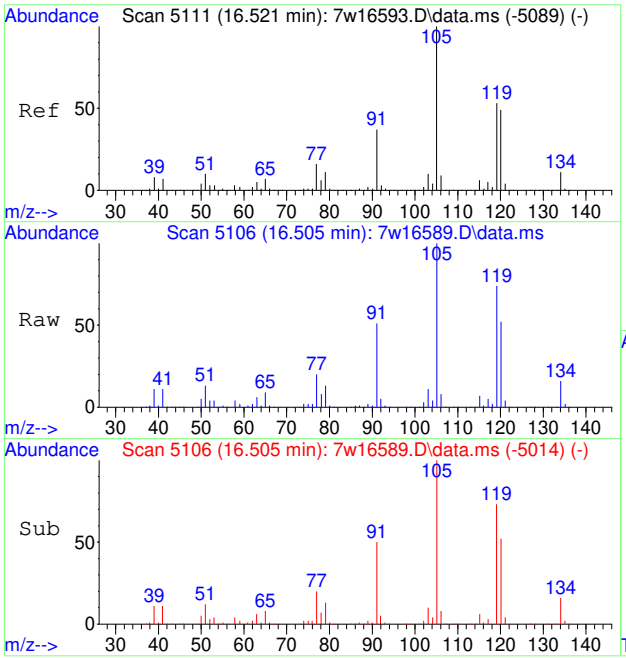


#95
TERT-BUTYLBENZENE
Concen: 5.33 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 77024

Ion	Ratio	Lower	Upper
134	100		
119	443.6	307.9	571.7

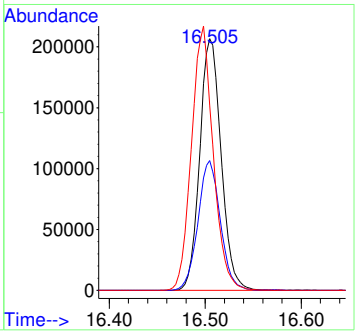


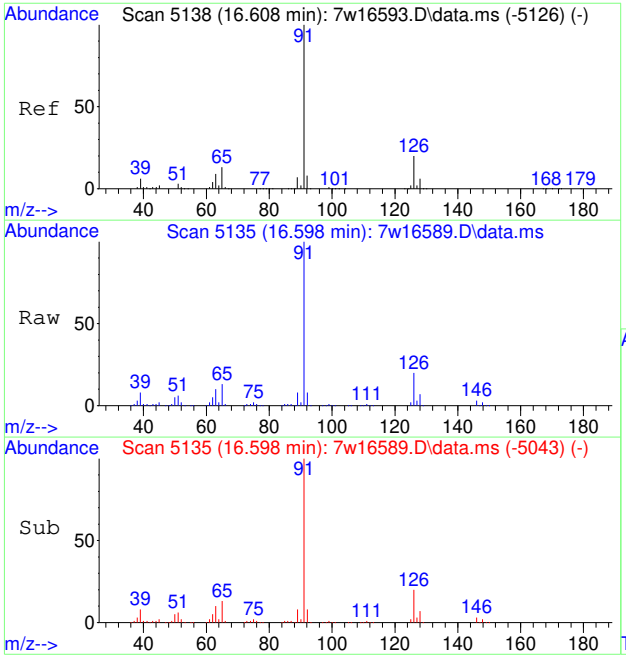


#96
1,2,4-TRIMETHYLBENZENE
Concen: 5.29 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 320531

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	106.6	78.0	144.8

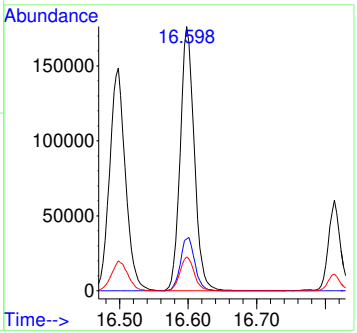


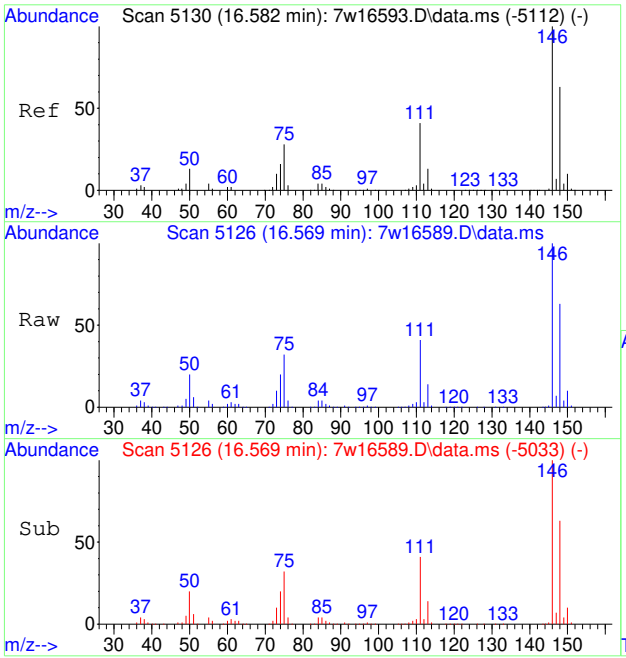


#97
BENZYL CHLORIDE
Concen: 4.80 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 250636

Ion	Ratio	Lower	Upper
91	100		
126	20.7	17.2	32.0
65	13.1	7.3	13.7

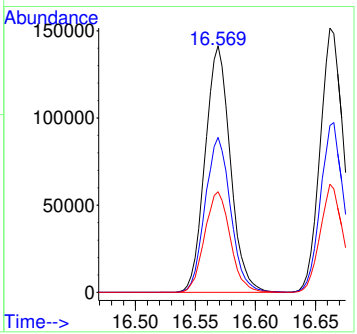


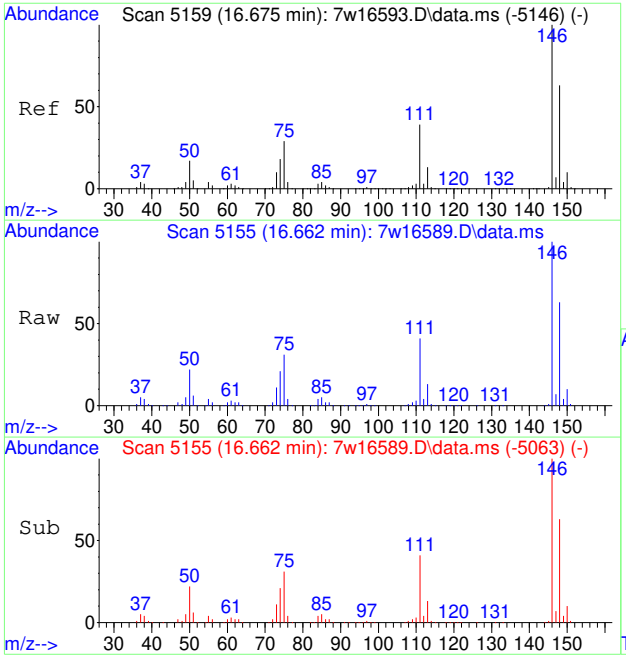


#98
M-DICHLOROBENZENE
Concen: 5.11 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 206691

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.7	25.4	47.2

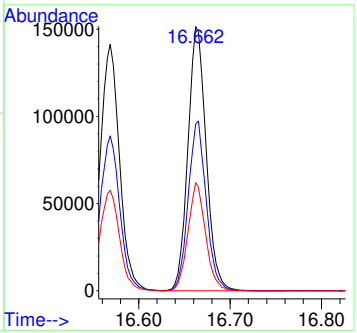


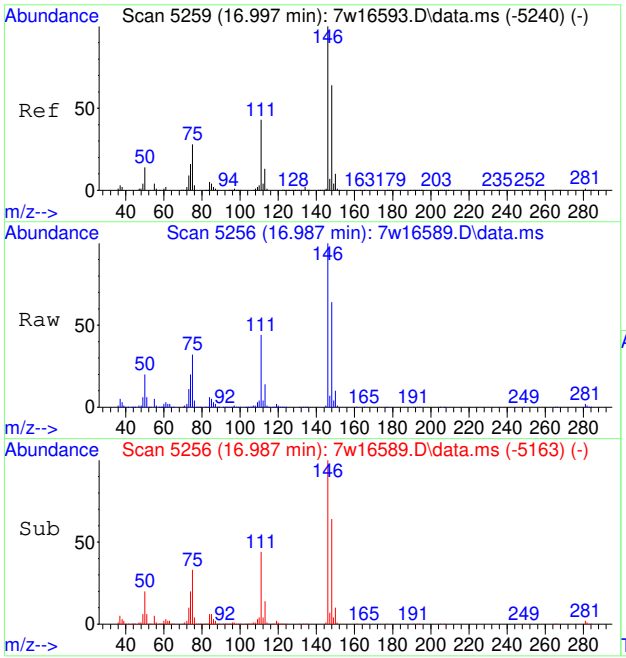


#99
P-DICHLOROBENZENE
Concen: 5.27 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 210041

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	39.5	24.8	46.1

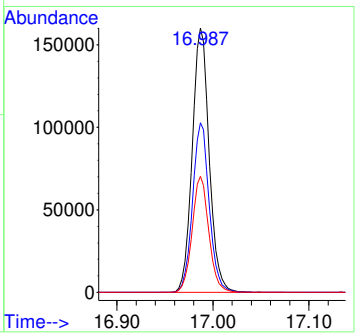


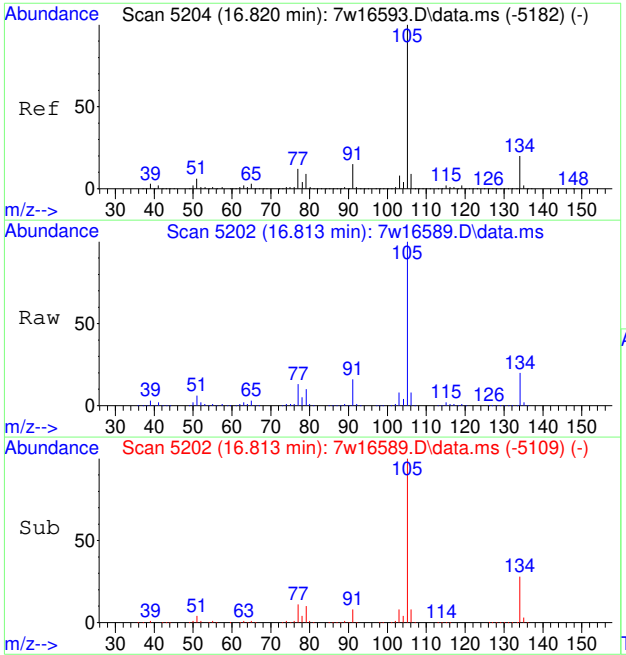


#100
O-DICHLOROBENZENE
Concen: 5.24 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 196281

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.2	26.9	50.1

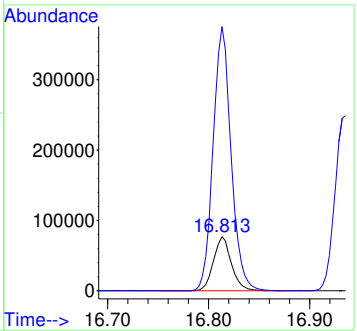


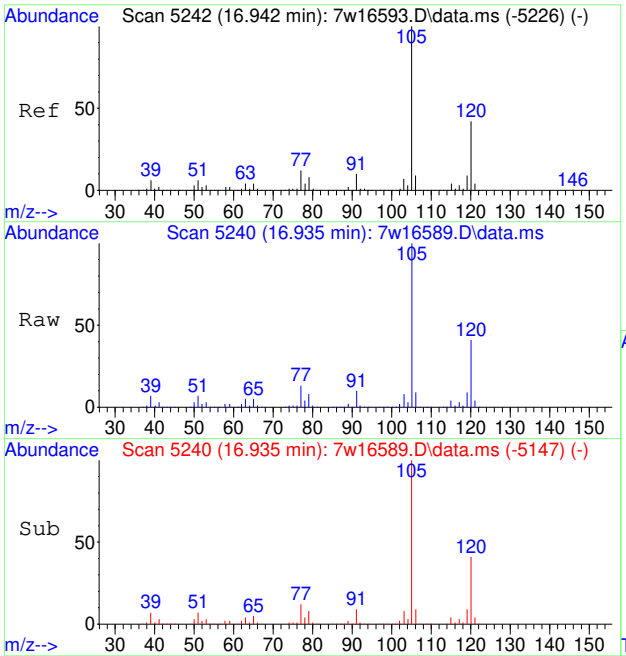


#101
SEC-BUTYLBENZENE
Concen: 5.43 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 94529

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

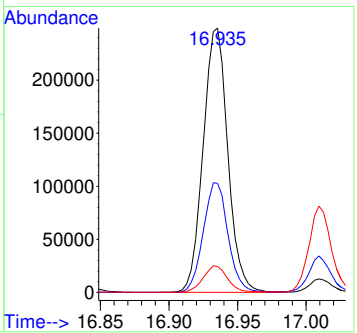


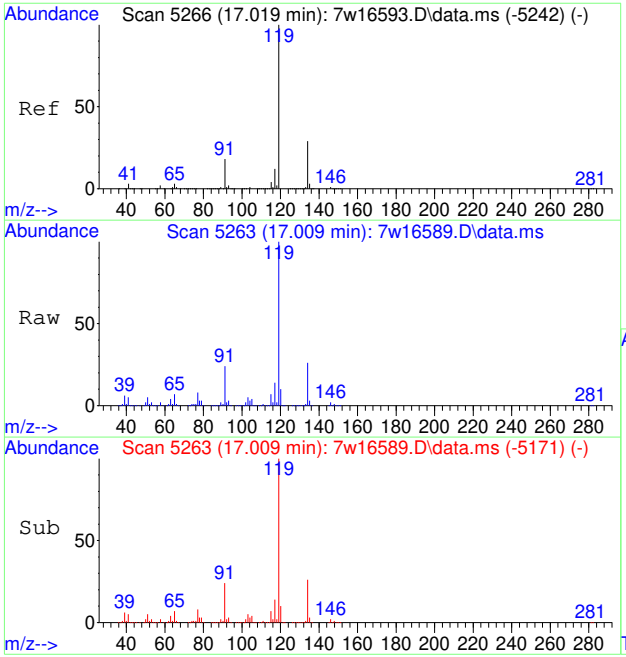


#102
1,2,3-TRIMETHYLBENZENE
Concen: 5.23 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 310890

Ion	Ratio	Lower	Upper
105	100		
120	41.6	31.9	59.2
91	10.1	7.3	13.5

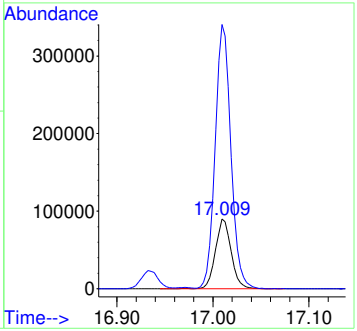


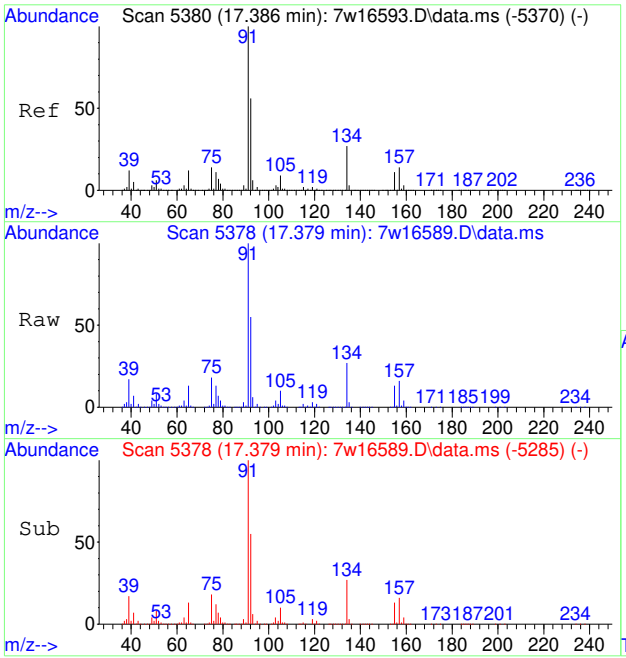


#103
P-ISOPROPYLTOLUENE
Concen: 5.24 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 102620

Ion	Ratio	Lower	Upper
134	100		
119	378.3	253.7	471.3

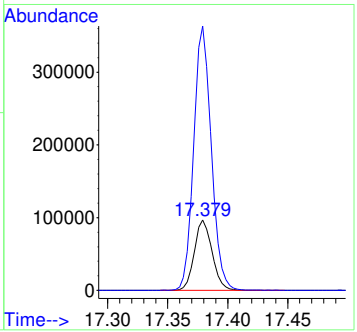


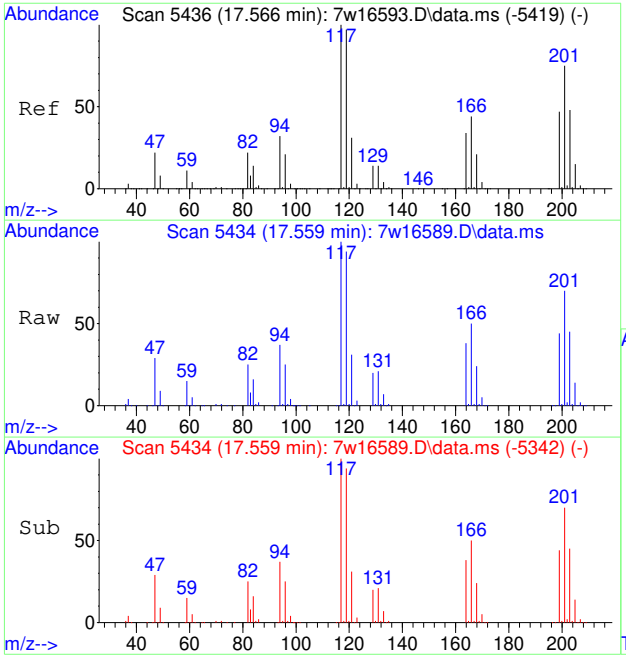


#104
N-BUTYLBENZENE
Concen: 5.28 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 99471

Ion	Ratio	Lower	Upper
134	100		
91	373.3	231.1	429.1

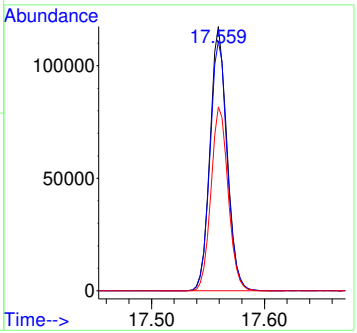


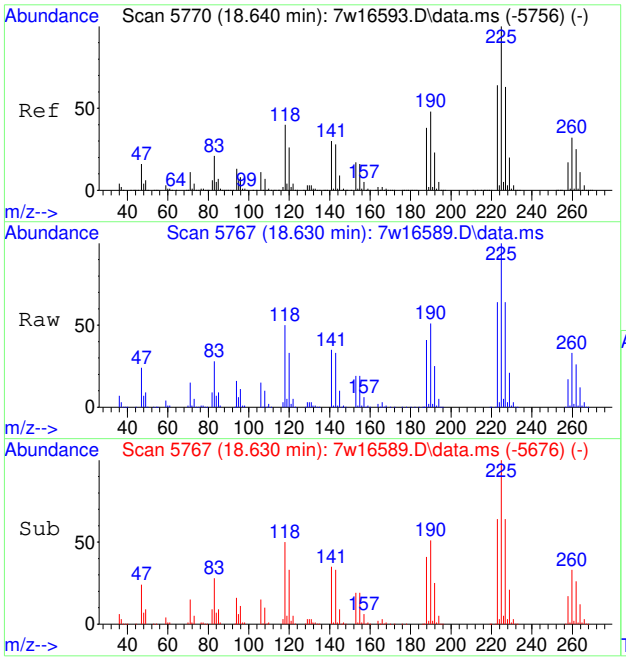


#105
HEXACHLOROETHANE
Concen: 5.22 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 121985

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	70.5	45.9	85.3

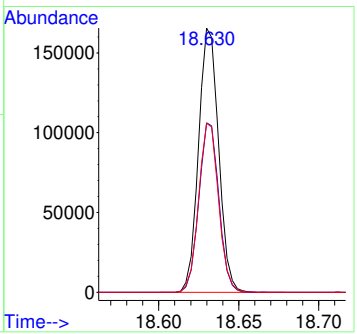


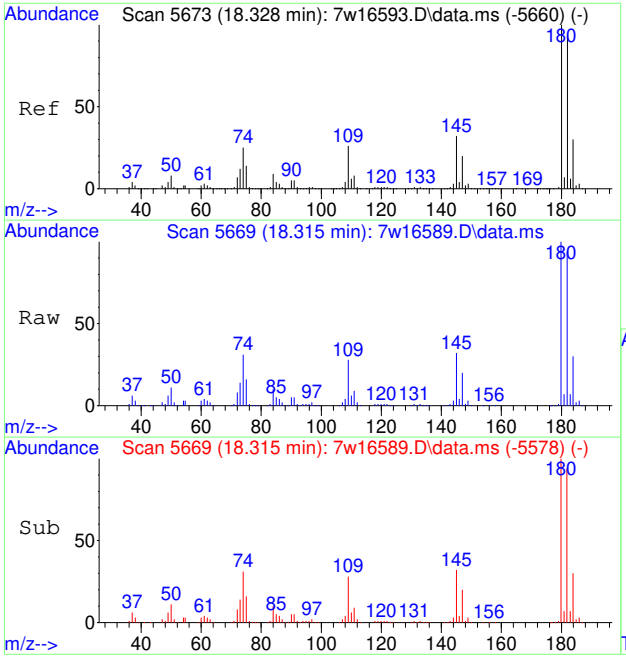


#106
HEXACHLOROBUTADIENE
Concen: 5.62 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:225 Resp: 144324

Ion	Ratio	Lower	Upper
225	100		
227	63.8	44.4	82.5
223	63.5	44.7	83.1

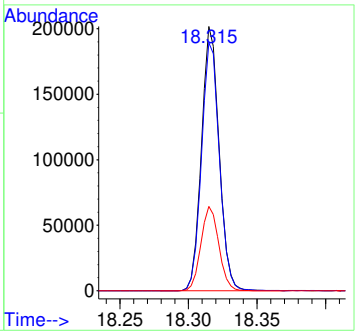


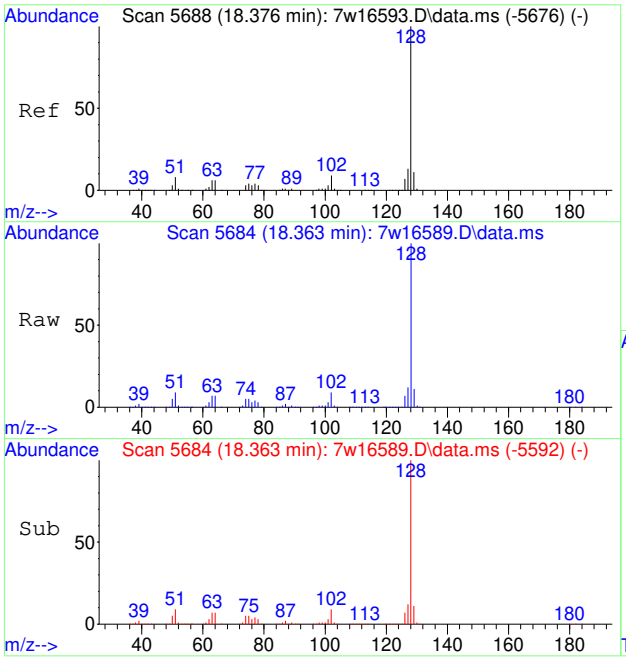


#107
1,2,4-TRICHLOROBENZENE
Concen: 5.43 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:180 Resp: 179655

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.5	23.1	42.9

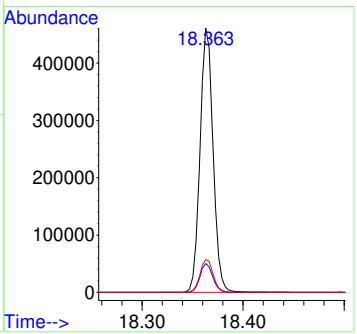


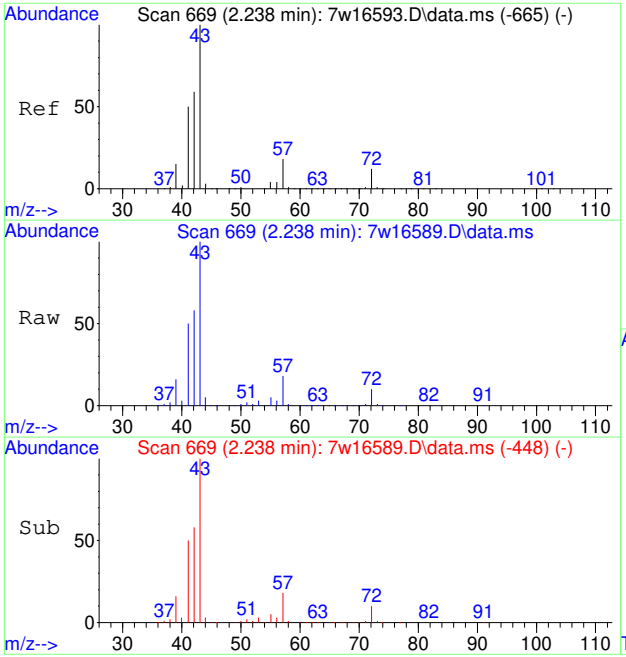


#108
NAPHTHALENE
Concen: 5.36 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:128 Resp: 413175

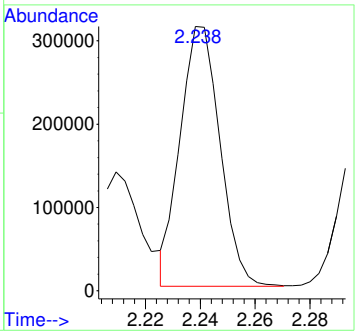
Ion	Ratio	Lower	Upper
128	100		
129	10.8	7.3	13.7
127	12.6	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 5.18 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:TIC Resp: 315100



7.7.17

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16589.D
Injection Time: 08/07/25 12:29

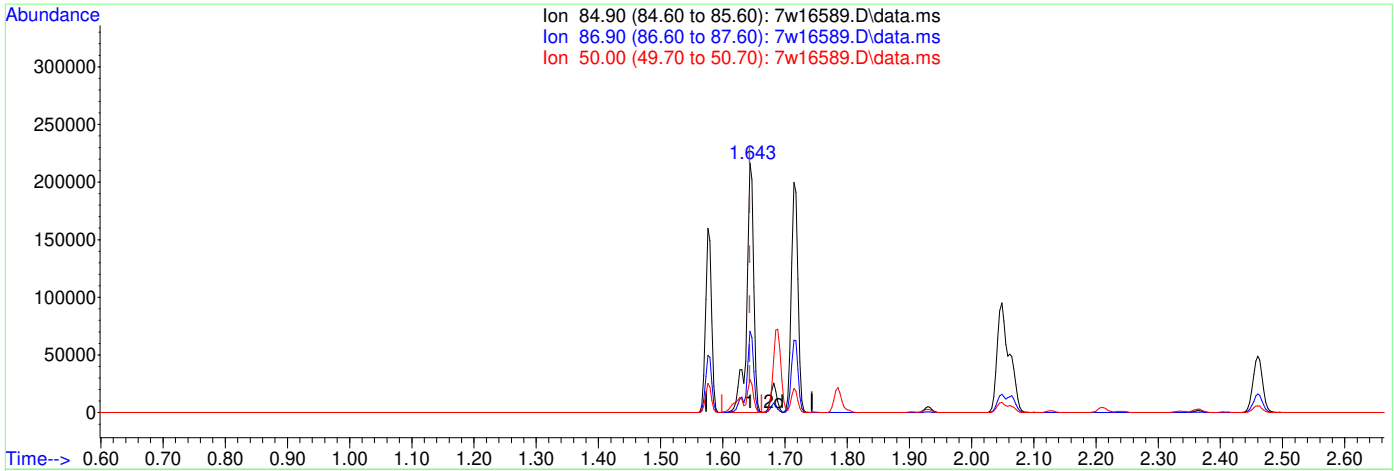
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

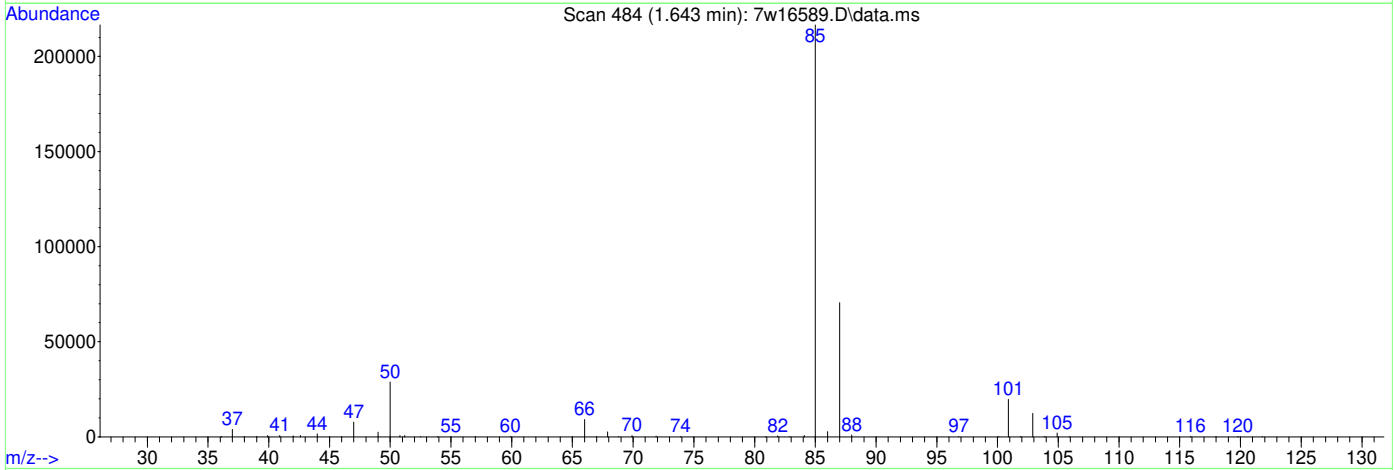
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 5.16PPBV

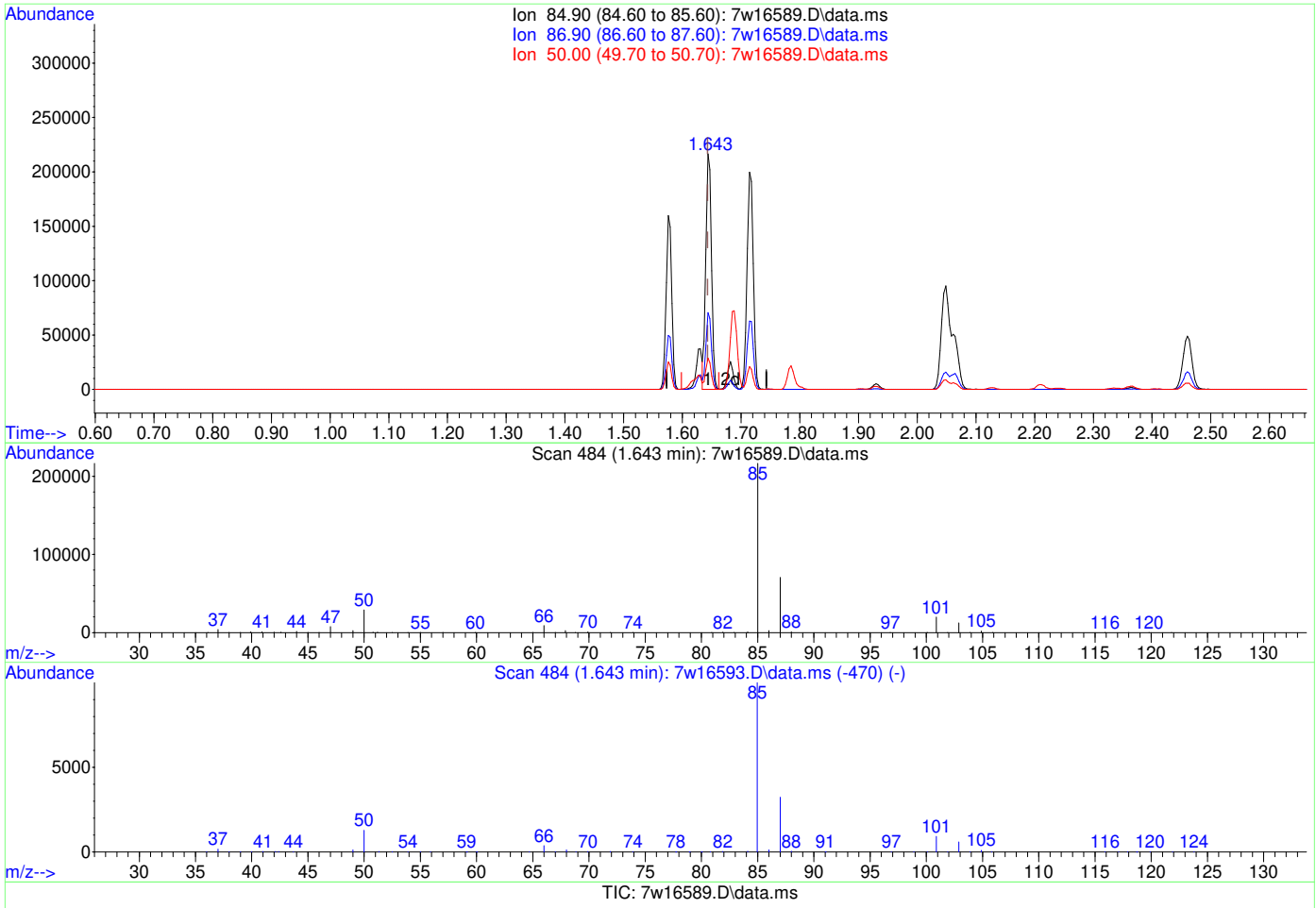
response 170335

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.55
50.00	17.30	19.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 4.36PPBV m

response 143733

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.57
50.00	17.30	22.75#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110672	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	555876	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511162	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110672	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415854	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	148485	10.40	PPBV		88
3) FREON 152A	1.605	65	71639	10.50	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	32817	10.59	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.627	116	161129	10.60	PPBV		71
6) DICHLORODIFLUOROMETHANE	1.643	85	294067m	8.88	PPBV		
7) PROPYLENE	1.627	41	92922	10.60	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	267066	10.80	PPBV		99
9) FREON 114	1.714	85	301155	10.40	PPBV		83
10) CHLOROMETHANE	1.685	52	39544	10.60	PPBV		99
11) VINYL CHLORIDE	1.746	62	141282	10.20	PPBV		99
12) 1,3-BUTADIENE	1.785	54	110559	10.30	PPBV	#	75
13) N-BUTANE	1.801	43	196391	10.67	PPBV		98
14) BROMOMETHANE	1.859	94	107418	10.20	PPBV		97
15) CHLOROETHANE	1.904	64	73302	10.00	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	261718	10.00	PPBV		96
17) ACETONITRILE	1.994	41	111653	9.70	PPBV		96
18) ACROLEIN	2.032	56	63526	10.60	PPBV		96
19) FREON 123	2.049	83	286896	10.73	PPBV		96
20) FREON 123A	2.065	117	168072	10.70	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.126	101	307938	10.10	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	265396	10.50	PPBV		89
23) ACETONE	2.071	58	72855	10.40	PPBV		64
24) PENTANE	2.238	42	138571	10.60	PPBV		88
25) IODOMETHANE	2.299	142	299236	10.70	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	121096	10.70	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	348427	10.60	PPBV		94
28) ETHANOL	1.933	45	62817	9.70	PPBV		98
29) BROMOETHENE	2.004	106	111170	10.10	PPBV		95
30) ACRYLONITRILE	2.209	52	103886	10.70	PPBV		97
31) METHYLENE CHLORIDE	2.364	84	109559	10.20	PPBV	#	74
32) 3-CHLOROPROPENE	2.405	76	62528	10.20	PPBV		72
33) FREON 113	2.460	151	187009	10.60	PPBV		85
34) TRANS-1,2-DICHLOROETHENE	2.685	96	127301	10.20	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.335	59	296206	9.59	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	372073	10.49	PPBV		97
37) TETRAHYDROFURAN	3.466	72	57483	9.70	PPBV		81
38) HEXANE	3.238	57	246511	10.50	PPBV		81
39) VINYL ACETATE	2.827	86	35168	10.20	PPBV		71
40) 1,1-DICHLOROETHANE	2.759	63	250914	10.20	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	65983	10.43	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.113	96	134402	10.34	PPBV	#	74
43) DIISOPROPYL ETHER	3.241	59	70916	10.51	PPBV		94
44) ETHYL ACETATE	3.248	61	50059	10.49	PPBV		62
45) METHYL ACRYLATE	3.235	55	305217	10.50	PPBV	#	98
46) CHLOROFORM	3.261	83	269897	10.50	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	286654	10.70	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	278334	10.38	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	291854	10.20	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.659	62	205888	10.20	PPBV		98
51)	BENZENE	4.126	78	391334	10.41	PPBV		90
53)	CYCLOHEXANE	4.331	84	177560	10.40	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.582	71	92078	10.60	PPBV		68
55)	TRICHLOROETHENE	5.013	95	180016	9.90	PPBV		86
56)	1,2-DICHLOROPROPANE	4.782	63	164997	10.30	PPBV		92
57)	DIBROMOMETHANE	4.740	174	152742	10.28	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	381569	10.50	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.958	83	297999	9.90	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	772831	10.20	PPBV	#	95
61)	1,4-DIOXANE	5.023	88	89212	9.94	PPBV	#	83
62)	HEPTANE	5.418	43	263524	10.40	PPBV		91
63)	METHYL METHACRYLATE	5.315	69	149851	10.30	PPBV		88
64)	METHYL ISOBUTYL KETONE	6.035	58	152356	10.20	PPBV		78
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	257147	10.12	PPBV		96
66)	TOLUENE	7.129	91	488762	10.60	PPBV		97
67)	1,3-DICHLOROPROPANE	7.187	76	252760	10.60	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	227014	9.56	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.765	83	143412	10.50	PPBV		95
70)	2-HEXANONE	7.691	58	203944	10.38	PPBV	#	79
71)	ETHYL METHACRYLATE	7.830	69	260130	10.39	PPBV		95
72)	TETRACHLOROETHENE	8.842	164	181618	10.70	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.659	129	295382	10.40	PPBV		97
74)	1,2-DIBROMOETHANE	8.000	107	267727	10.99	PPBV		99
75)	OCTANE	8.994	43	371213	10.70	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	219545	10.90	PPBV		93
78)	CHLOROBENZENE	10.042	112	401465	10.90	PPBV		90
79)	ETHYLBENZENE	10.923	91	667794	11.00	PPBV		97
80)	M,P-XYLENE	11.350	91	1033120	21.20	PPBV		96
81)	O-XYLENE	12.283	91	525465	11.00	PPBV		95
82)	STYRENE	12.067	104	405889	10.90	PPBV		94
83)	NONANE	13.402	43	395697	10.80	PPBV		83
84)	BROMOFORM	11.157	173	257628	10.60	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	382601	10.99	PPBV		98
86)	1,2,3-TRICHLOROPROPANE	12.572	75	301186	11.00	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	197546	10.80	PPBV		87
89)	BROMOBENZENE	13.656	77	373873	10.80	PPBV		76
90)	2-CHLOROTOLUENE	14.784	126	179837	10.39	PPBV		99
91)	N-PROPYLBENZENE	15.125	120	208155	10.50	PPBV		97
92)	4-ETHYLTOLUENE	15.569	105	761814	10.60	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	641174	10.70	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.173	118	317898	10.40	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	157456	10.90	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	660136	10.90	PPBV		95
97)	BENZYL CHLORIDE	16.601	91	547978	10.50	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	424825	10.50	PPBV		96
99)	P-DICHLOROBENZENE	16.665	146	430477	10.80	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	400770	10.70	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	191611	11.00	PPBV		83
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	636319	10.70	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	211524	10.80	PPBV		95
104)	N-BUTYLBENZENE	17.379	134	205284	10.90	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	254836	10.90	PPBV		97
106)	HEXACHLOROBUTADIENE	18.636	225	300683	11.70	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.321	180	387303	11.70	PPBV		99
108)	NAPHTHALENE	18.366	128	909462	11.80	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	646941	10.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

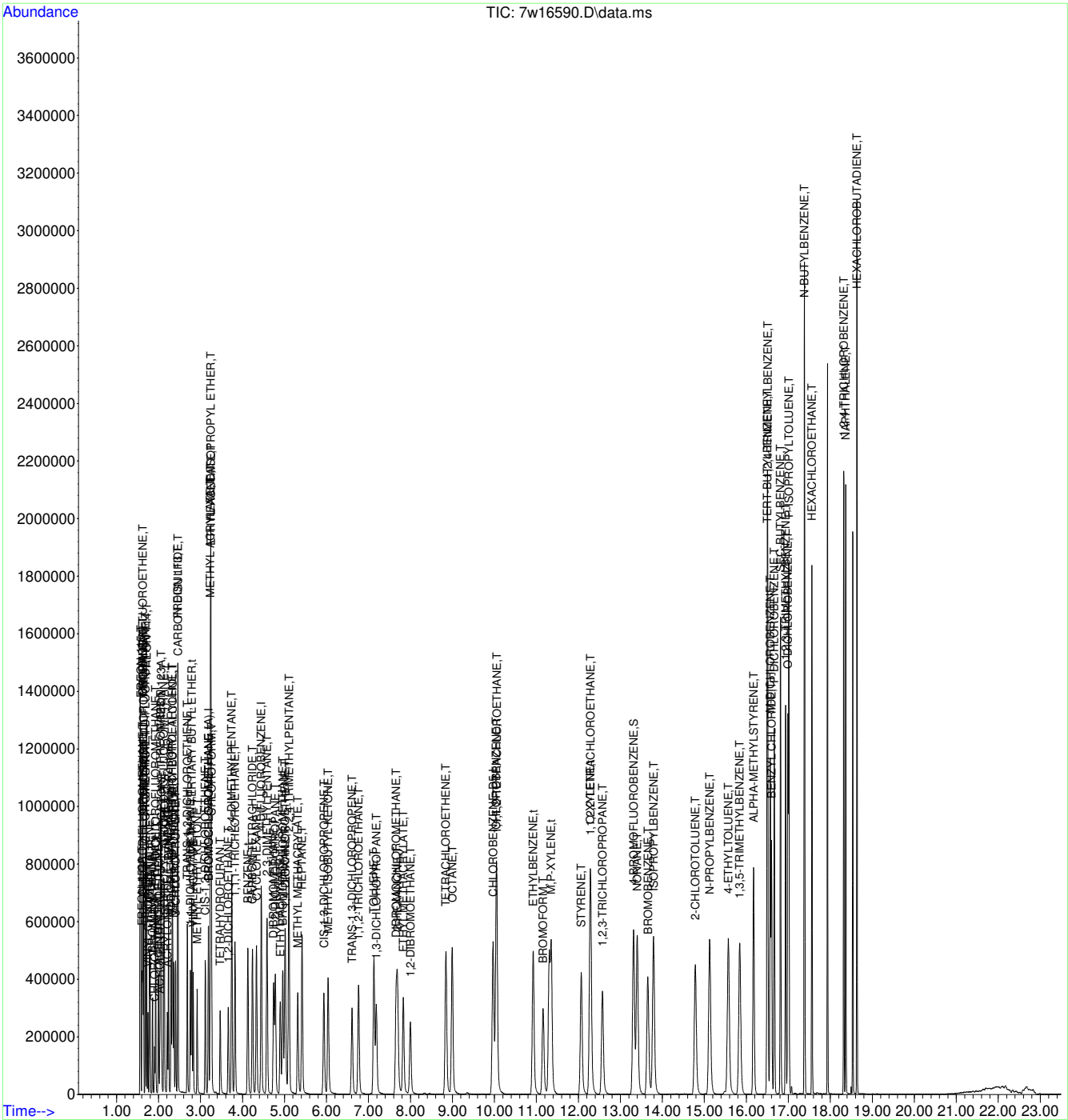
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

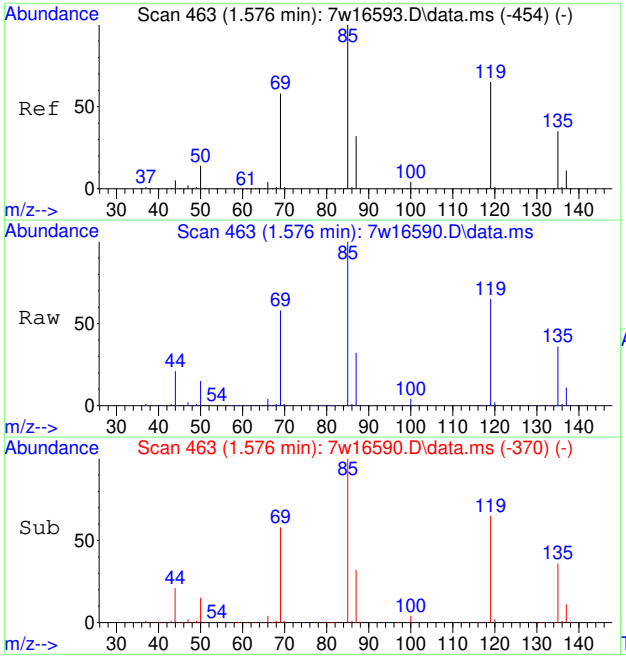
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

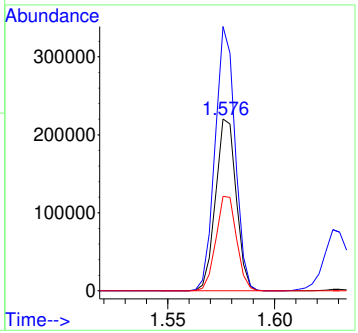


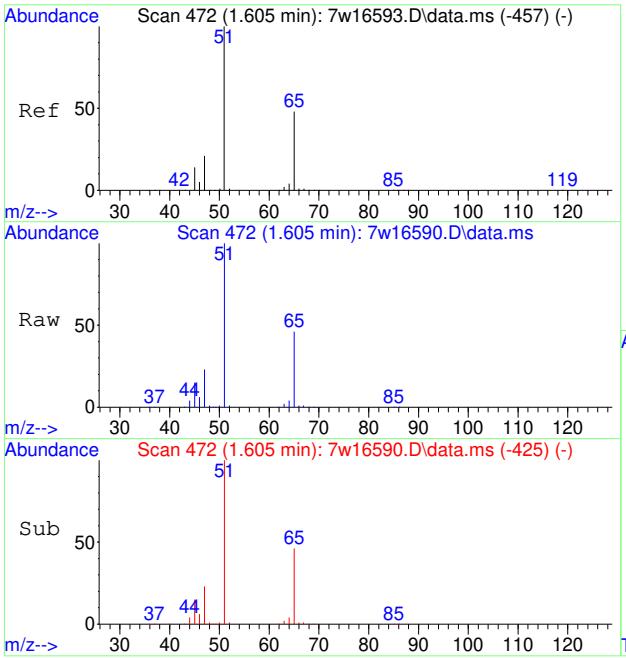


#2
FREON 115
Concen: 10.40 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:119 Resp: 148485

Ion	Ratio	Lower	Upper
119	100		
85	149.1	90.9	168.7
135	55.2	38.2	71.0

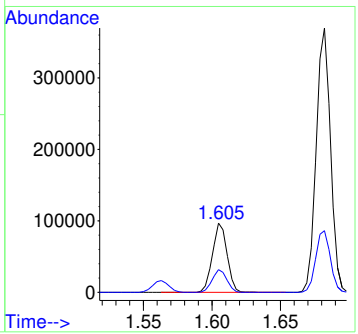


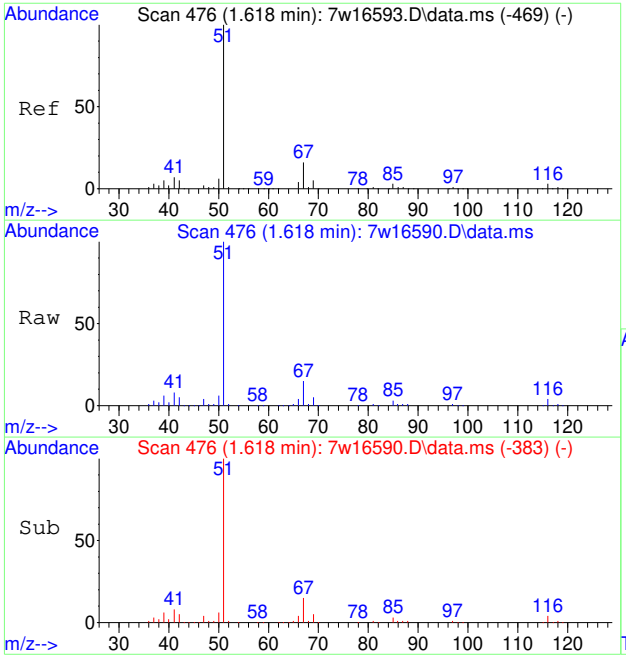


#3
FREON 152A
Concen: 10.50 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 71639

Ion	Ratio	Lower	Upper
65	100		
45	32.9	20.6	38.4

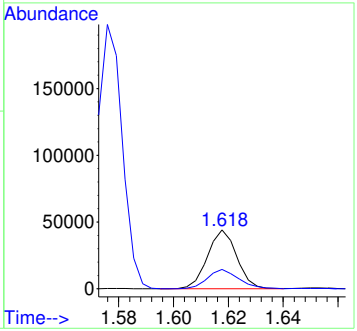


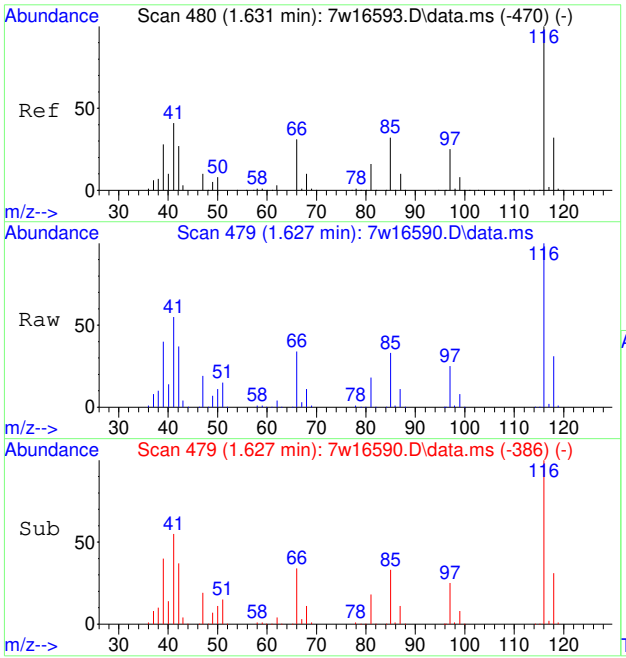


#4
CHLORODIFLUOROMETHANE
Concen: 10.59 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 32817

Ion	Ratio	Lower	Upper
67	100		
69	36.2	25.4	47.2

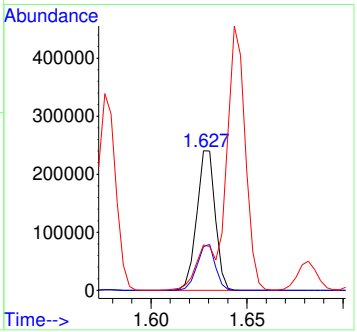


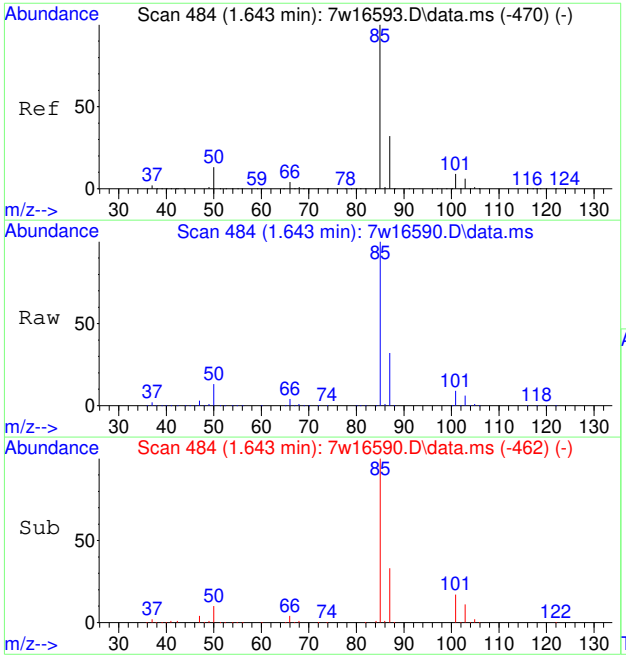


#5
CHLOROTRIFLUOROETHENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:116 Resp: 161129

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	217.7	194.7	361.7

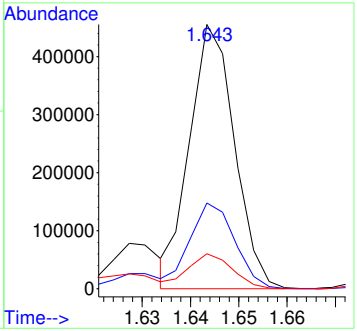


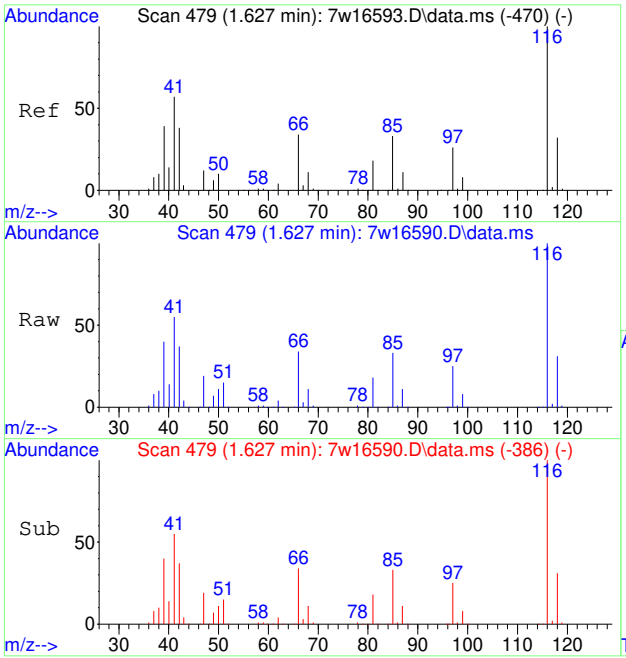


#6
DICHLORODIFLUOROMETHANE
Concen: 8.88 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 294067

Ion	Ratio	Lower	Upper
85	100		
87	39.2	23.1	42.9
50	23.1	12.1	22.5#

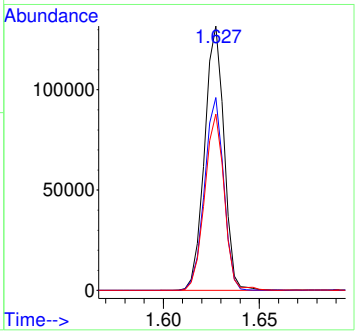


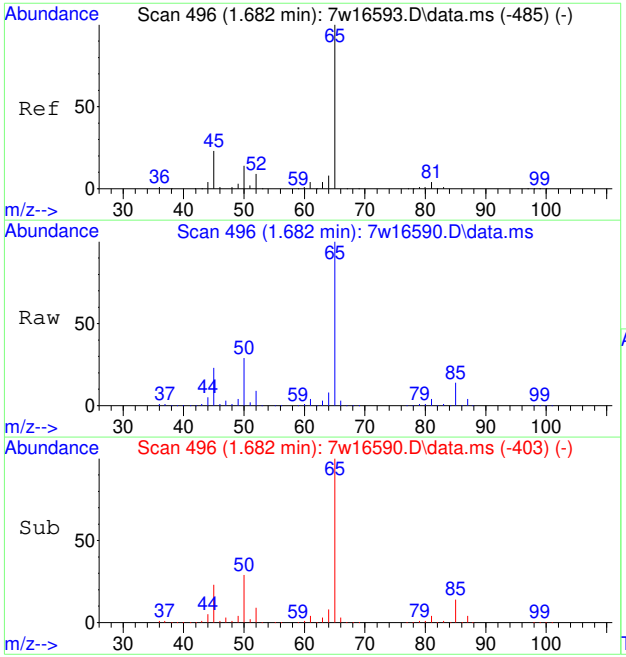


#7
PROPYLENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 92922

Ion	Ratio	Lower	Upper
41	100		
39	72.1	51.0	94.8
42	67.2	46.6	86.6

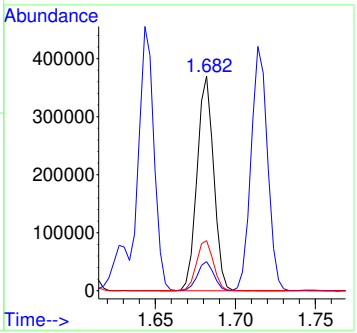


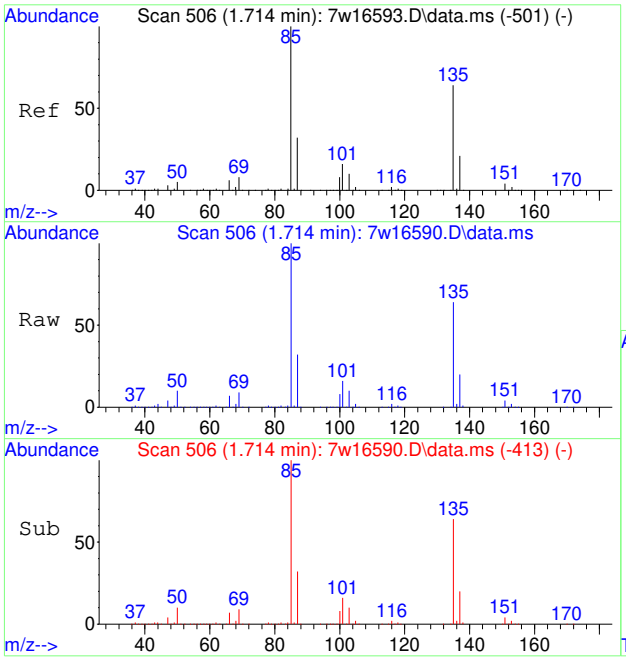


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.80 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 267066

Ion	Ratio	Lower	Upper
65	100		
85	13.4	9.7	17.9
45	24.1	17.0	31.6

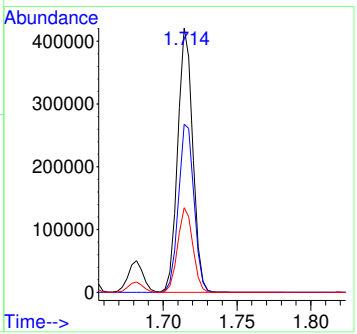


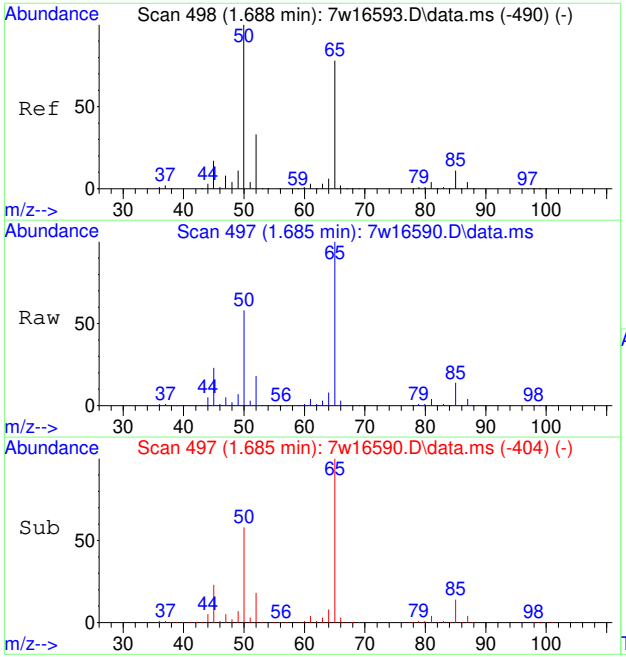


#9
FREON 114
Concen: 10.40 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 301155

Ion	Ratio	Lower	Upper
85	100		
135	65.9	61.3	113.9
87	32.3	23.2	43.0

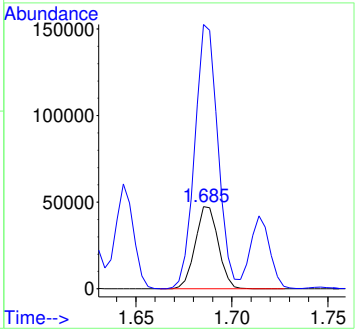


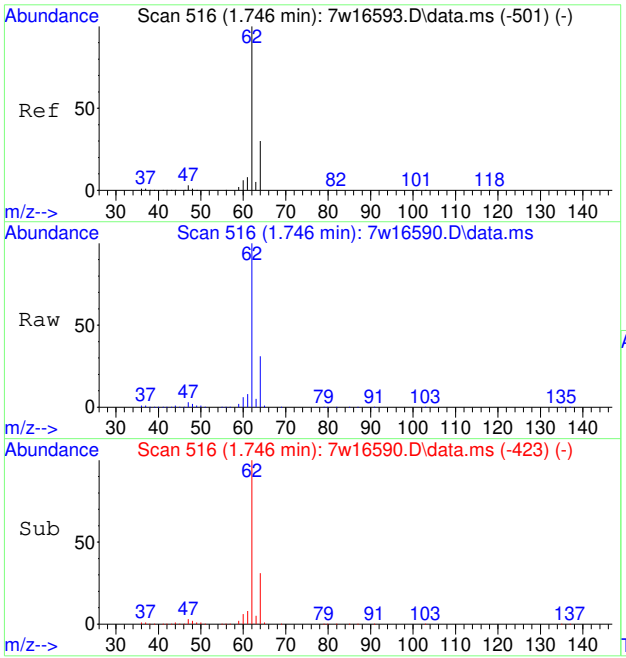


#10
CHLOROMETHANE
Concen: 10.60 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 39544

Ion	Ratio	Lower	Upper
52	100		
50	322.3	227.6	422.6

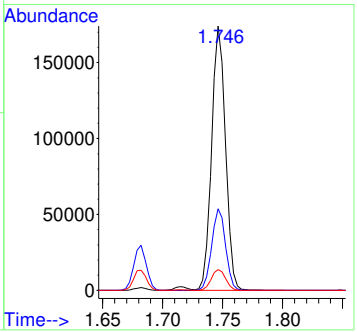


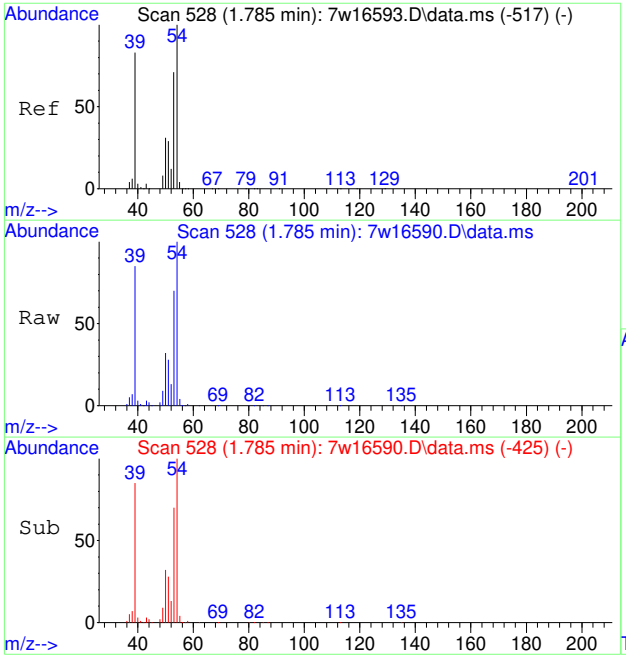


#11
VINYL CHLORIDE
Concen: 10.20 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 141282

Ion	Ratio	Lower	Upper
62	100		
64	30.5	21.6	40.2
61	8.1	5.7	10.7

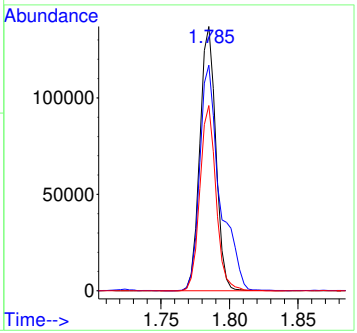


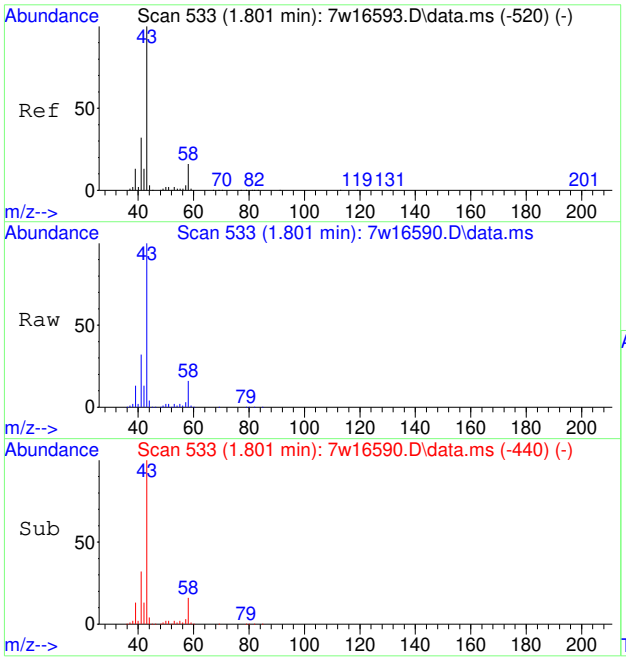


#12
1,3-BUTADIENE
Concen: 10.30 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 54 Resp: 110559

Ion	Ratio	Lower	Upper
54	100		
39	108.4	125.6	185.6#
53	70.9	40.7	100.7

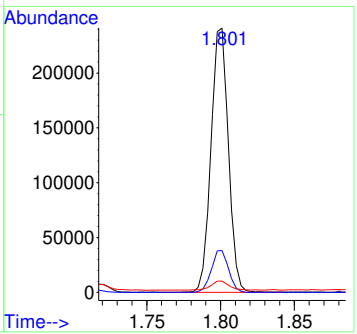


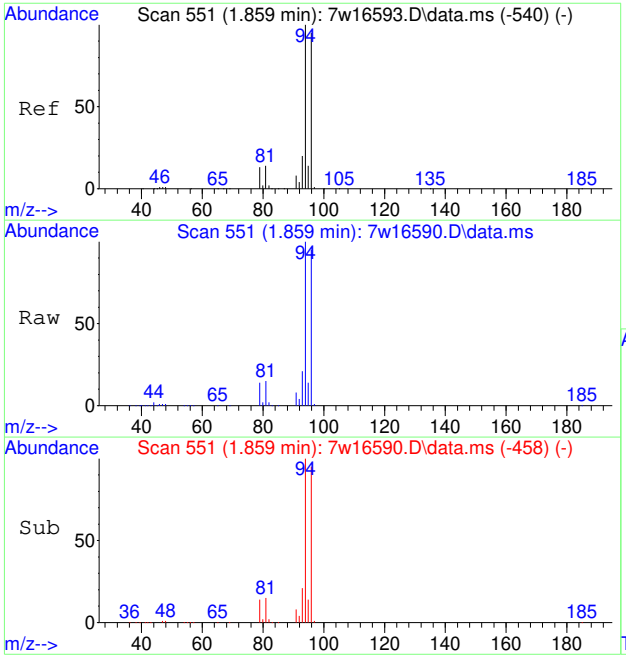


#13
N-BUTANE
Concen: 10.67 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 196391

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	3.7	3.0	5.6

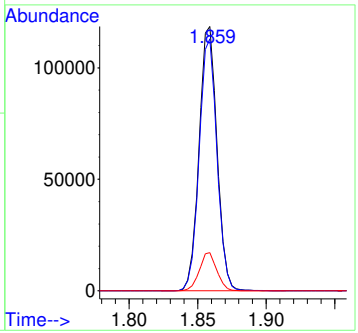


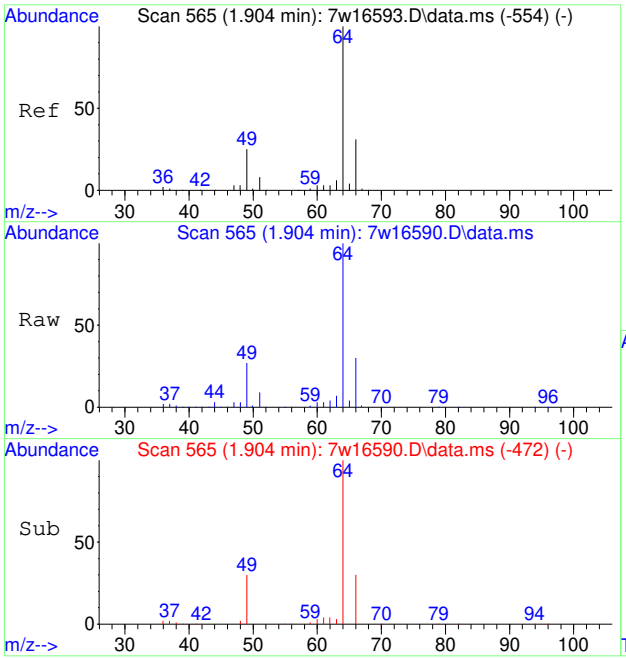


#14
BROMOMETHANE
Concen: 10.20 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 94 Resp: 107418

Ion	Ratio	Lower	Upper
94	100		
96	94.4	63.6	118.0
95	14.1	10.0	18.6

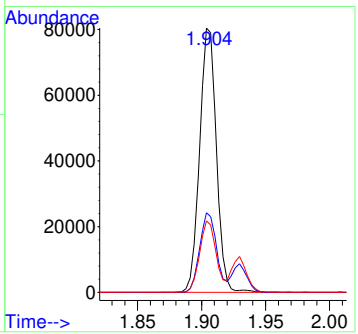


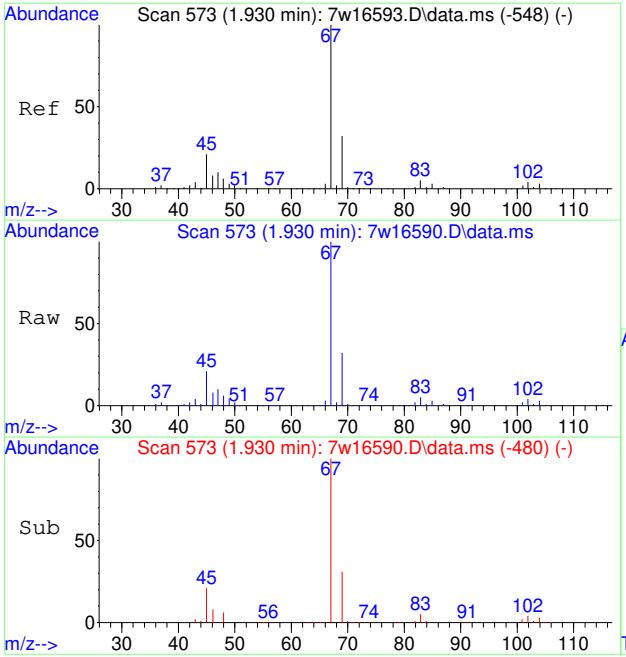


#15
CHLOROETHANE
Concen: 10.00 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 64 Resp: 73302

Ion	Ratio	Lower	Upper
64	100		
66	30.7	23.0	42.6
49	27.2	21.5	39.9

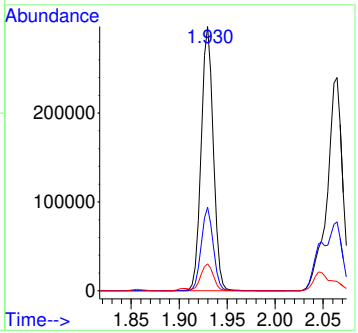


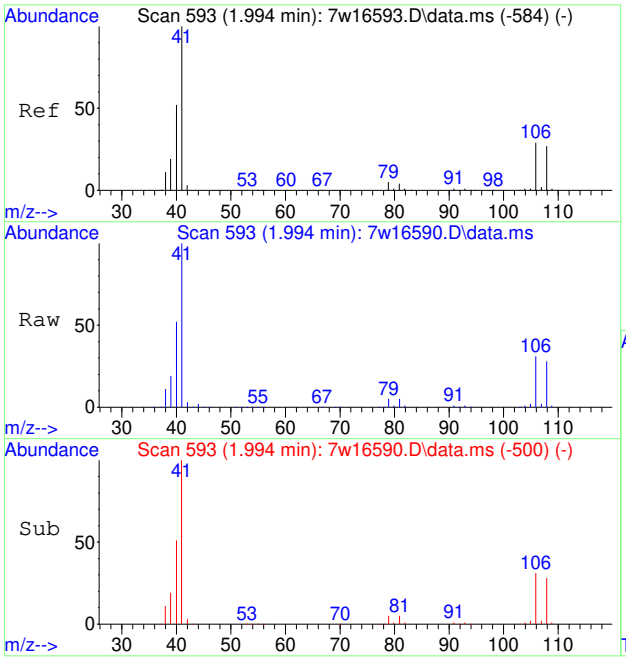


#16
DICHLOROFLUOROMETHANE
Concen: 10.00 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 261718

Ion	Ratio	Lower	Upper
67	100		
69	31.2	23.2	43.0
47	11.4	9.6	17.8

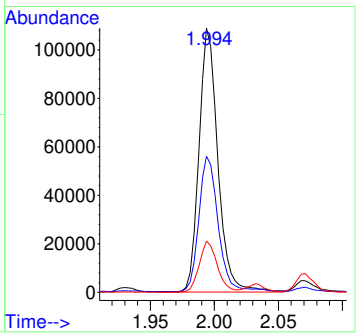


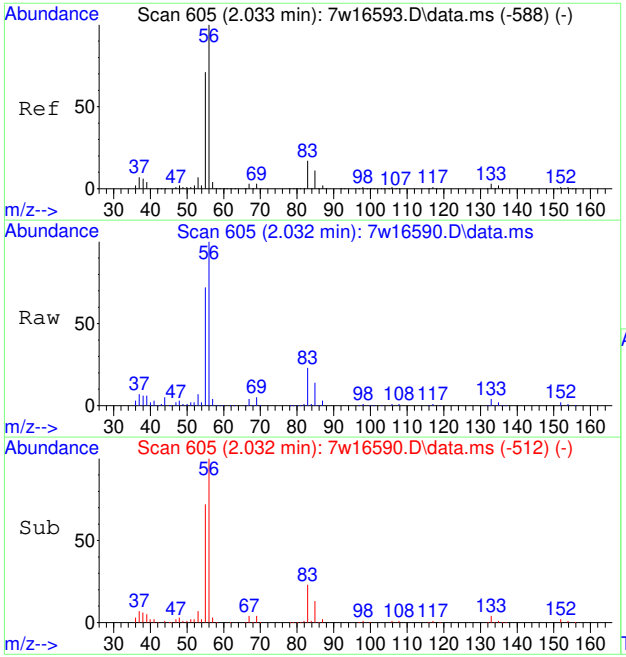


#17
ACETONITRILE
Concen: 9.70 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 111653

Ion	Ratio	Lower	Upper
41	100		
40	52.4	38.4	71.4
39	18.7	14.5	26.9

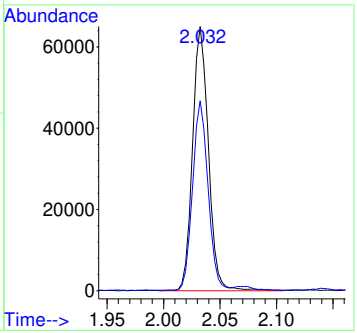


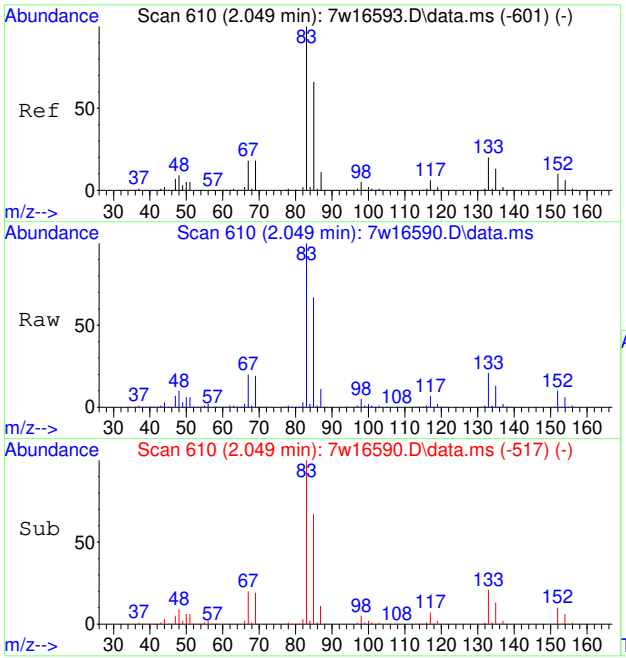


#18
ACROLEIN
Concen: 10.60 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 56 Resp: 63526

Ion	Ratio	Lower	Upper
56	100		
55	69.8	51.2	95.2

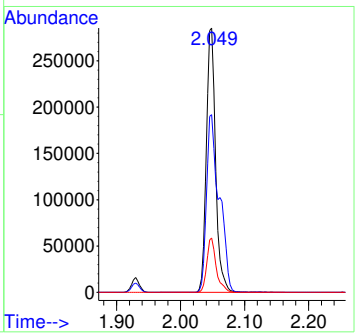


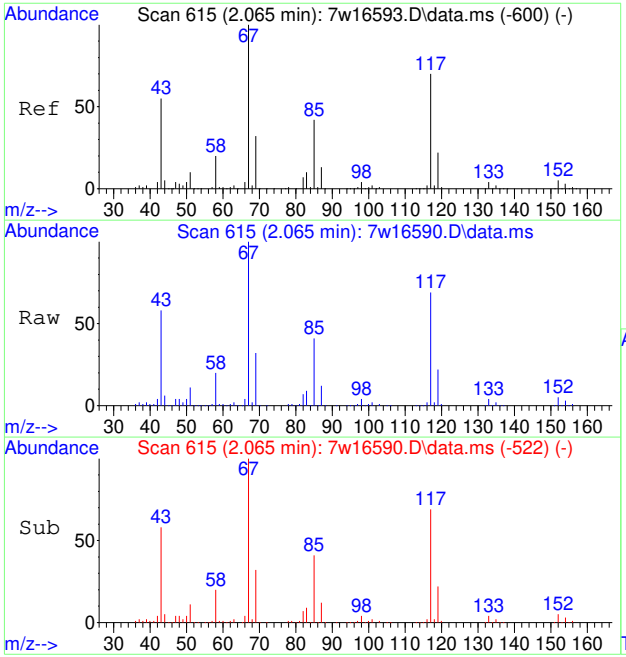


#19
FREON 123
Concen: 10.73 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 286896

Ion	Ratio	Lower	Upper
83	100		
85	92.7	65.7	121.9
133	21.0	19.9	36.9

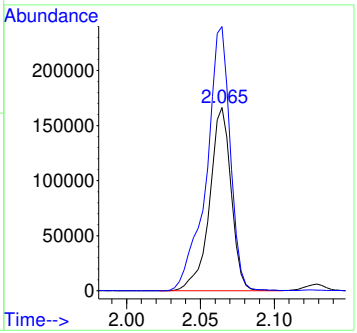


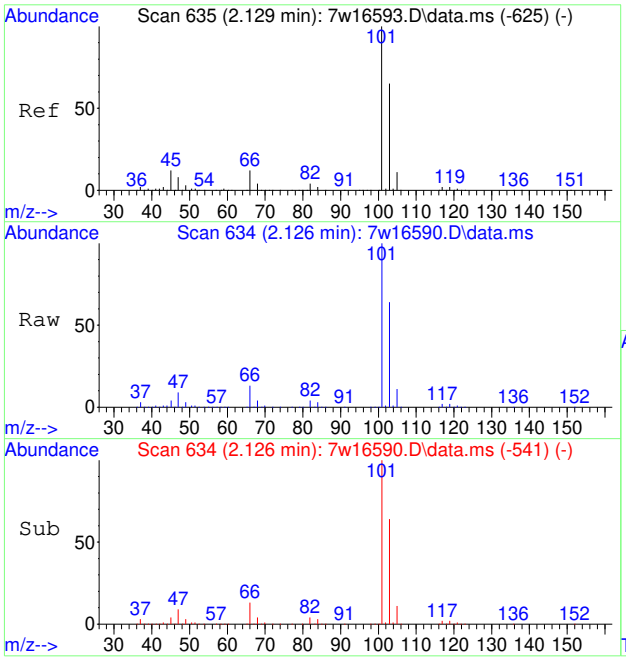


#20
FREON 123A
Concen: 10.70 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 168072

Ion	Ratio	Lower	Upper
117	100		
67	159.0	78.8	146.4#

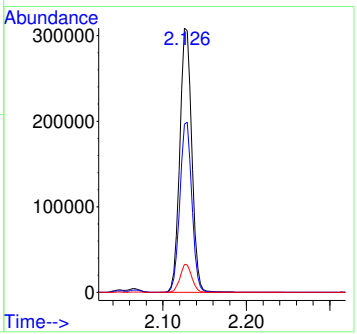


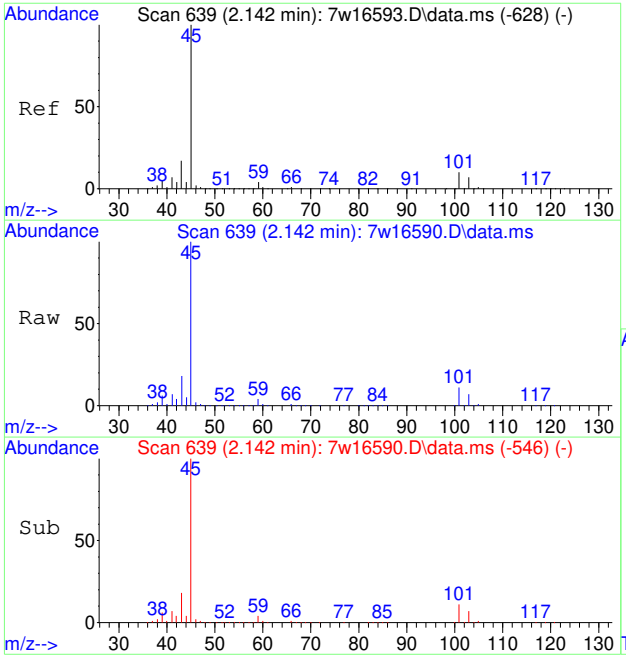


#21
TRICHLOROFLUOROMETHANE
Concen: 10.10 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:101 Resp: 307938

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.4	7.3	13.7

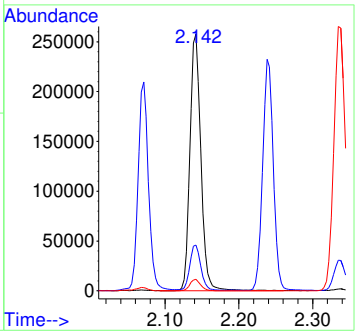


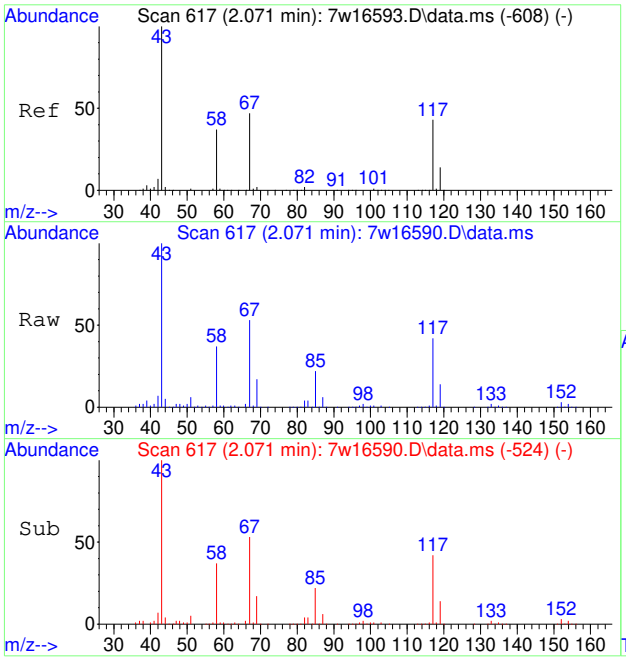


#22
ISOPROPYL ALCOHOL
Concen: 10.50 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 265396

Ion	Ratio	Lower	Upper
45	100		
43	17.9	17.1	31.9
59	4.4	3.1	5.8

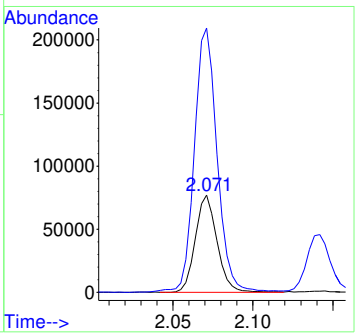


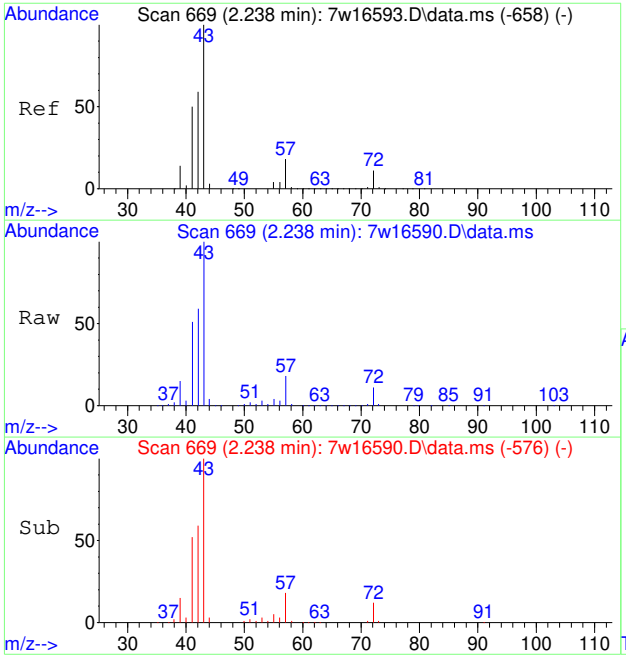


#23
ACETONE
Concen: 10.40 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 72855

Ion	Ratio	Lower	Upper
58	100		
43	283.7	254.0	471.6

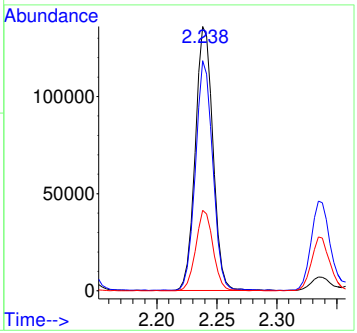


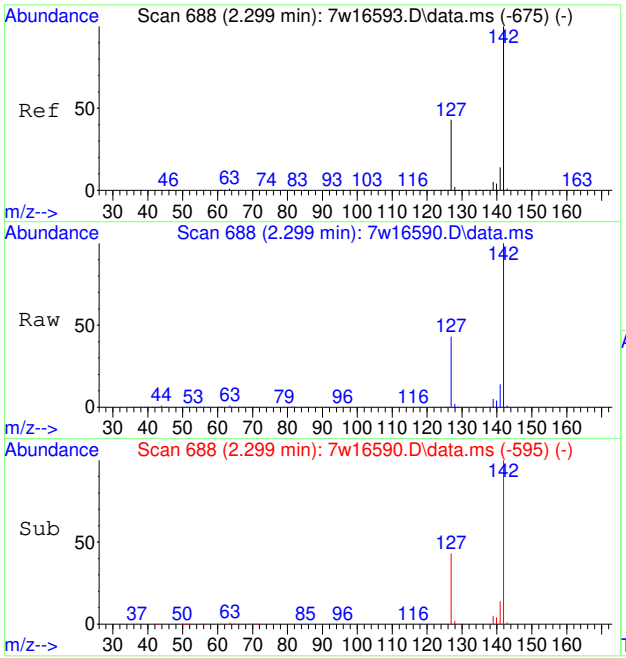


#24
PENTANE
Concen: 10.60 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 42 Resp: 138571

Ion	Ratio	Lower	Upper
42	100		
41	85.4	69.2	128.6
57	30.1	18.6	34.6

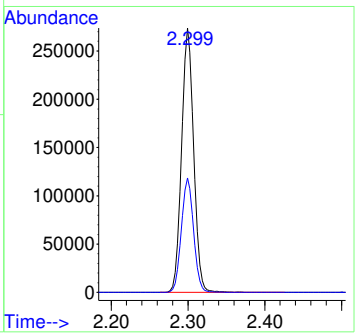


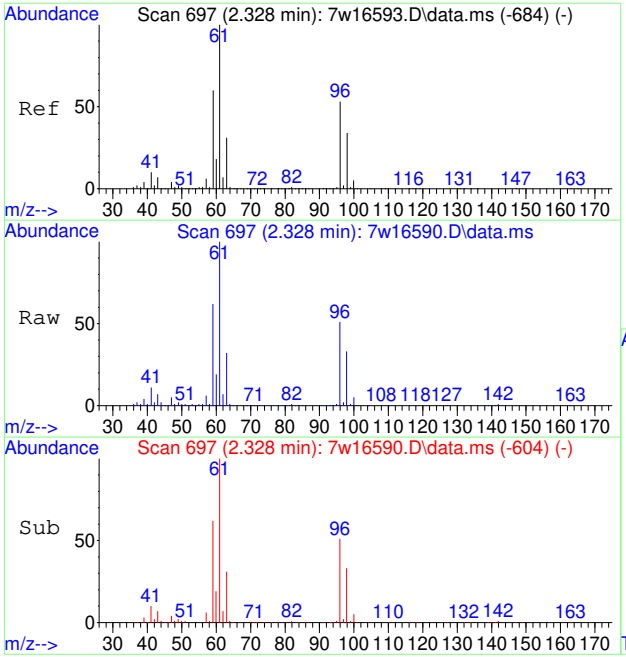


#25
IODOMETHANE
Concen: 10.70 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:142 Resp: 299236

Ion	Ratio	Lower	Upper
142	100		
127	43.7	32.1	59.7

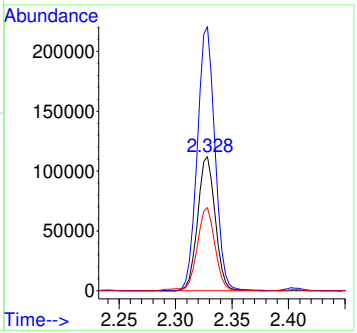


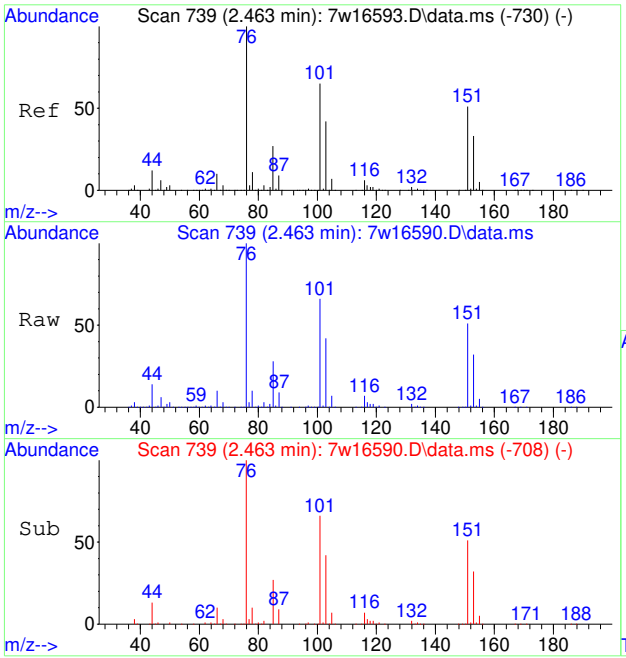


#26
1,1-DICHLOROETHYLENE
Concen: 10.70 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 121096

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	63.1	33.2	61.7#

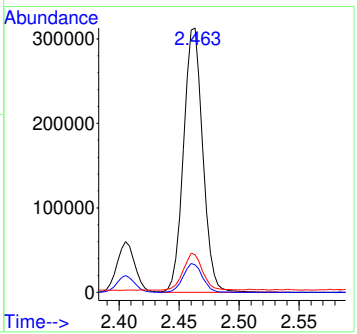


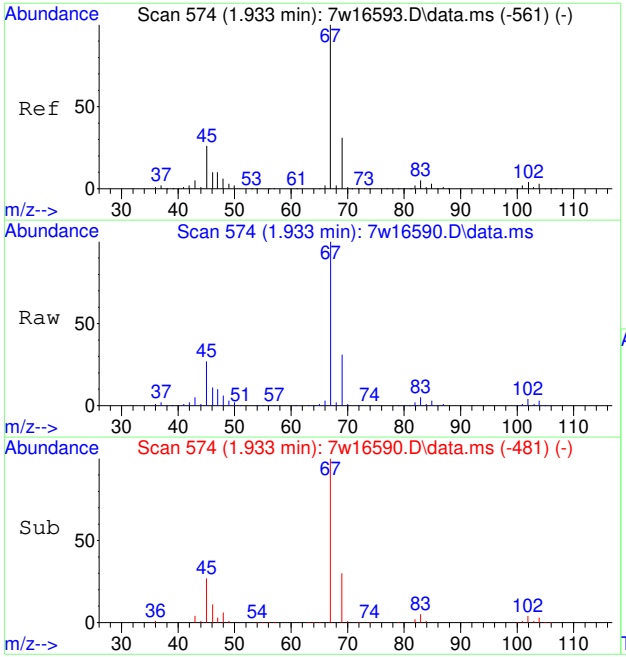


#27
CARBON DISULFIDE
Concen: 10.60 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 348427

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	14.6	13.0	24.1

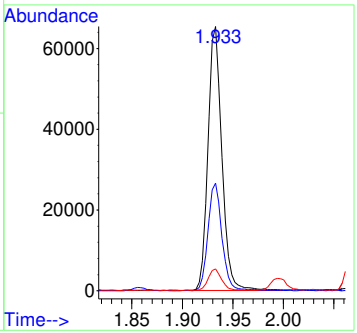


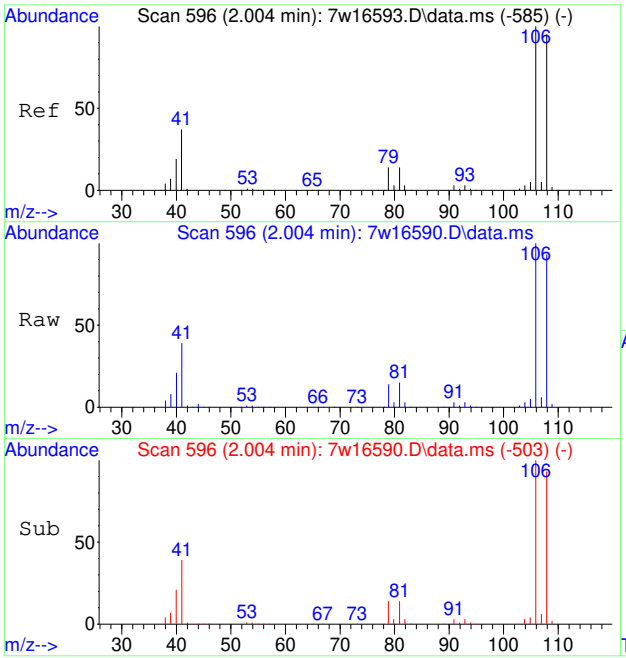


#28
ETHANOL
Concen: 9.70 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 62817

Ion	Ratio	Lower	Upper
45	100		
46	41.5	29.7	55.1
42	8.1	7.3	13.5

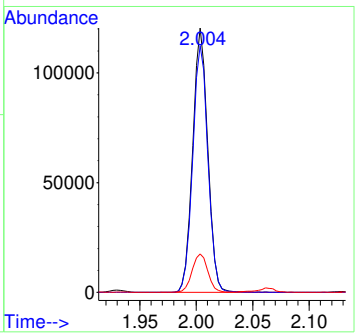


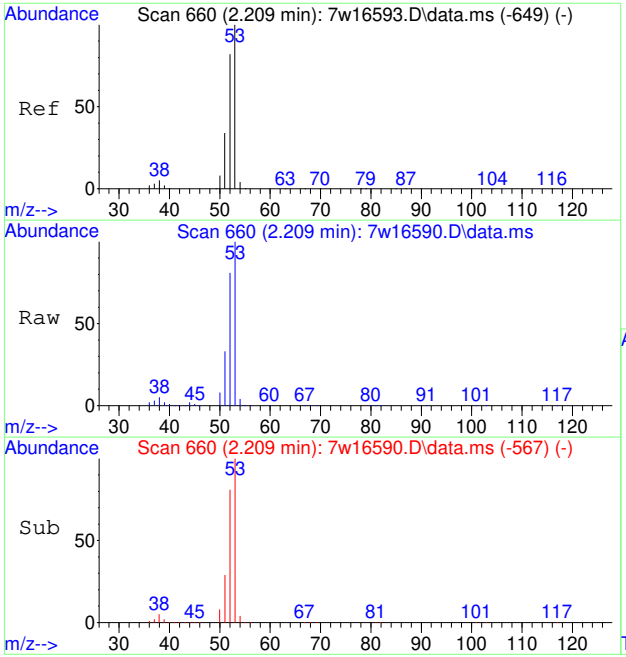


#29
BROMOETHENE
Concen: 10.10 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:106 Resp: 111170

Ion	Ratio	Lower	Upper
106	100		
108	94.4	68.3	126.8
81	15.2	14.7	27.3

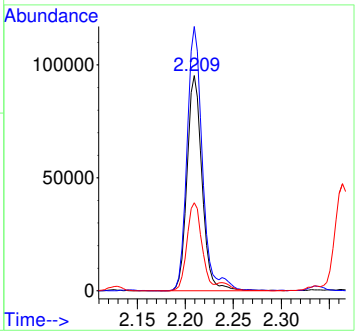


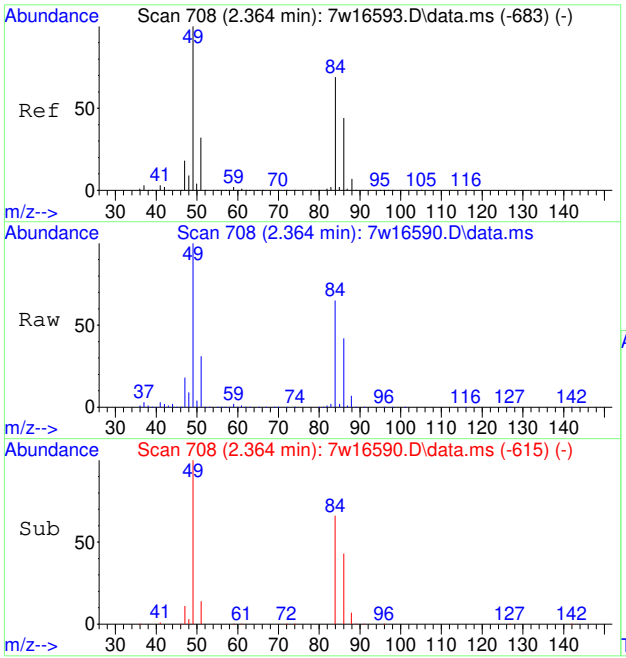


#30
ACRYLONITRILE
Concen: 10.70 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 103886

Ion	Ratio	Lower	Upper
52	100		
53	126.0	86.3	160.3
51	44.7	33.6	62.4

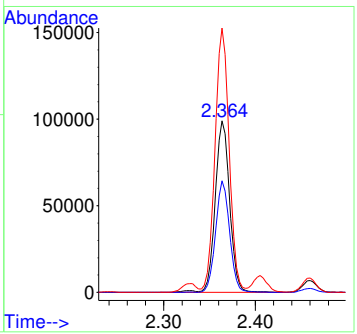


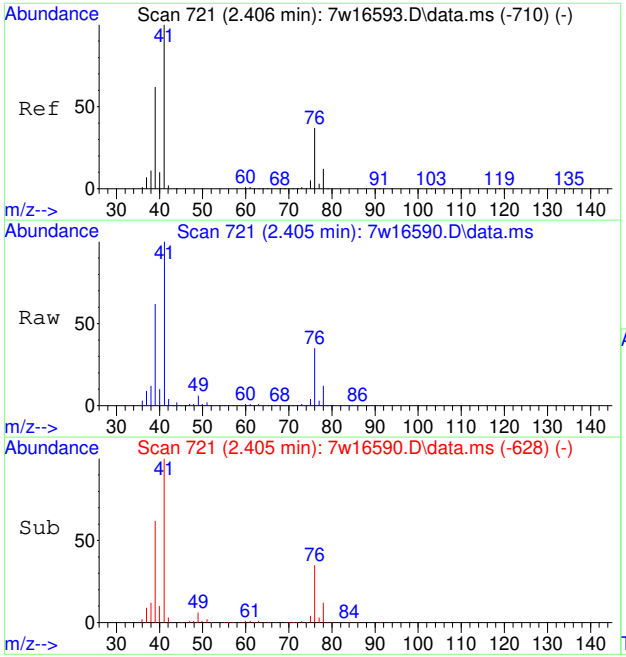


#31
METHYLENE CHLORIDE
Concen: 10.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 109559

Ion	Ratio	Lower	Upper
84	100		
86	63.3	44.9	83.5
49	156.4	79.7	148.1#

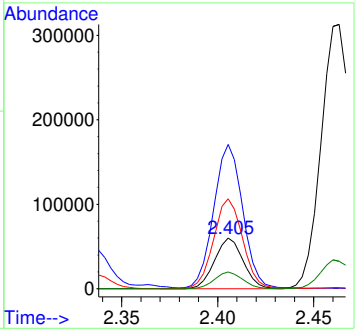


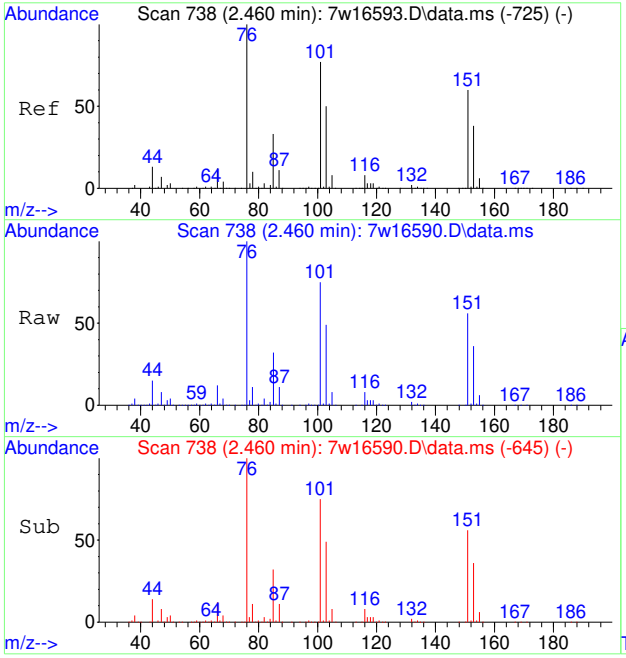


#32
3-CHLOROPROPENE
Concen: 10.20 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 62528

Ion	Ratio	Lower	Upper
76	100		
41	289.4	160.9	298.9
39	179.7	150.7	279.9
78	33.0	22.7	42.1

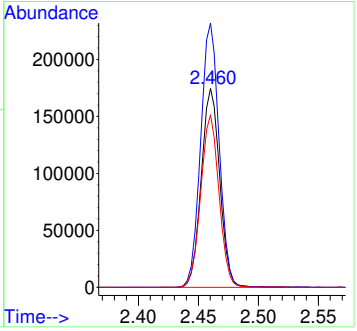


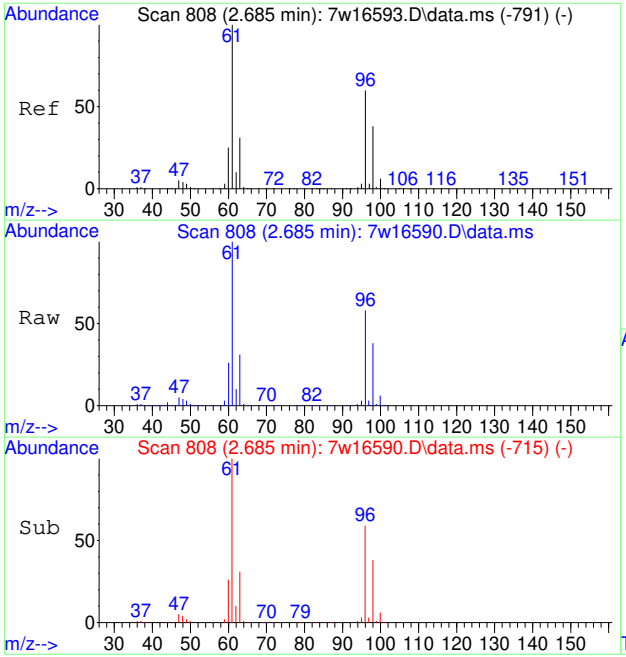


#33
FREON 113
Concen: 10.60 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:151 Resp: 187009

Ion	Ratio	Lower	Upper
151	100		
101	133.0	81.1	150.7
103	85.8	51.4	95.4

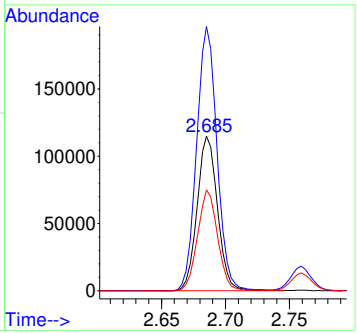


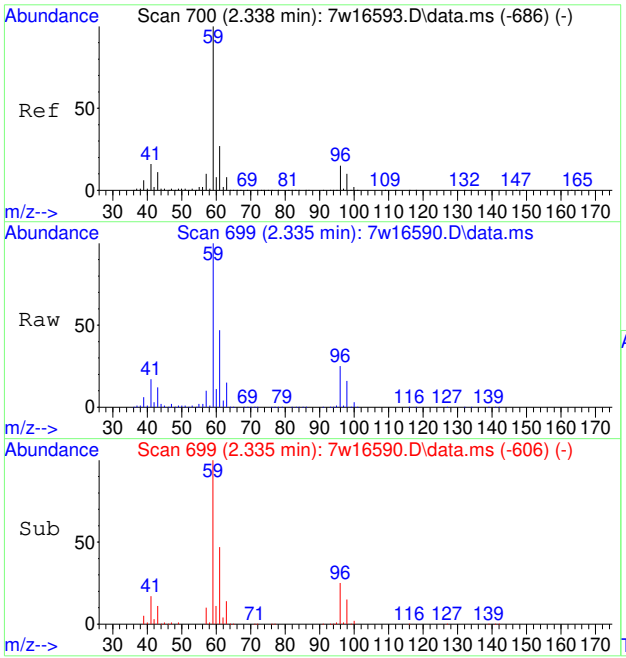


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.20 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 127301

Ion	Ratio	Lower	Upper
96	100		
61	170.8	78.5	145.9#
98	64.2	46.5	86.3

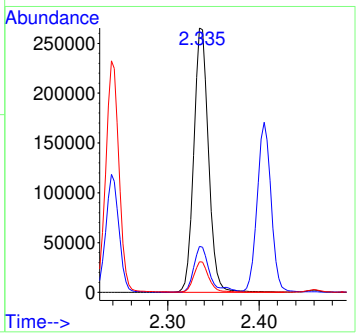


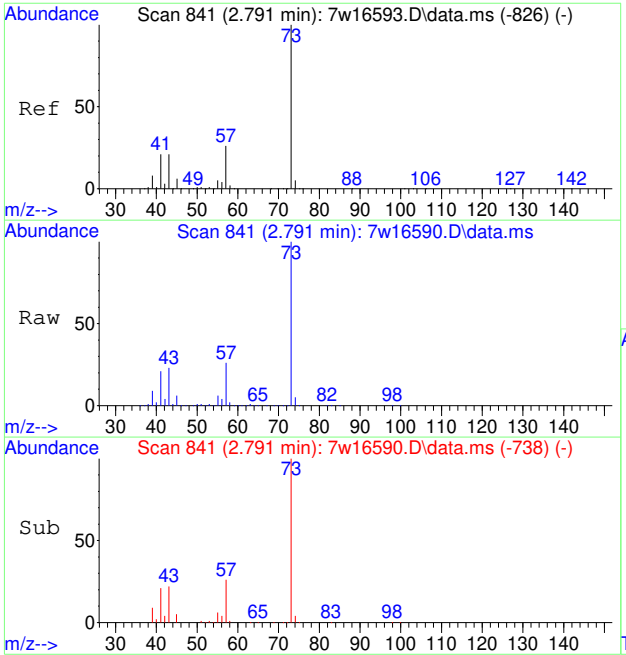


#35
TERTIARY BUTYL ALCOHOL
Concen: 9.59 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 59 Resp: 296206

Ion	Ratio	Lower	Upper
59	100		
41	18.4	15.3	28.5
43	11.4	12.3	22.9#

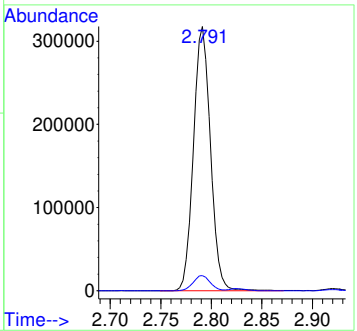


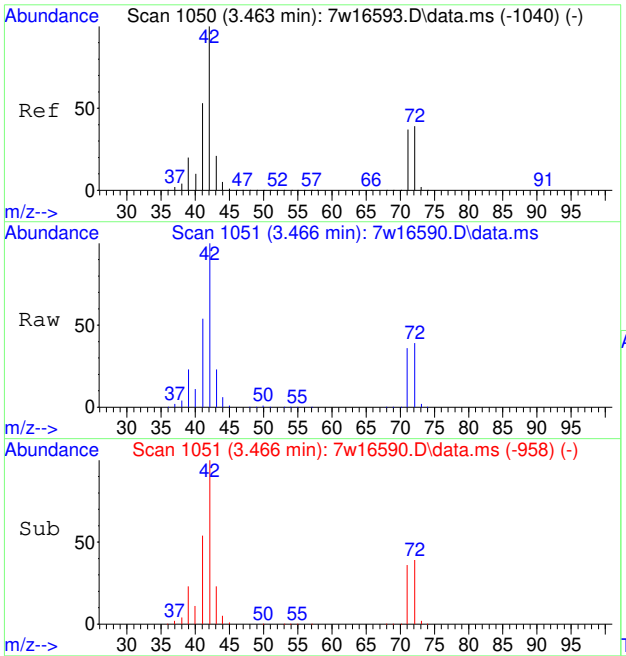


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.49 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 73 Resp: 372073

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

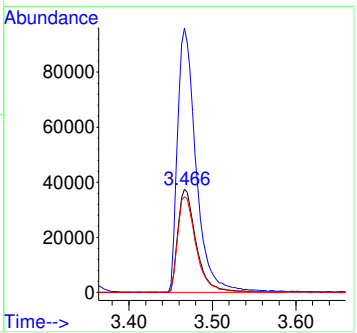


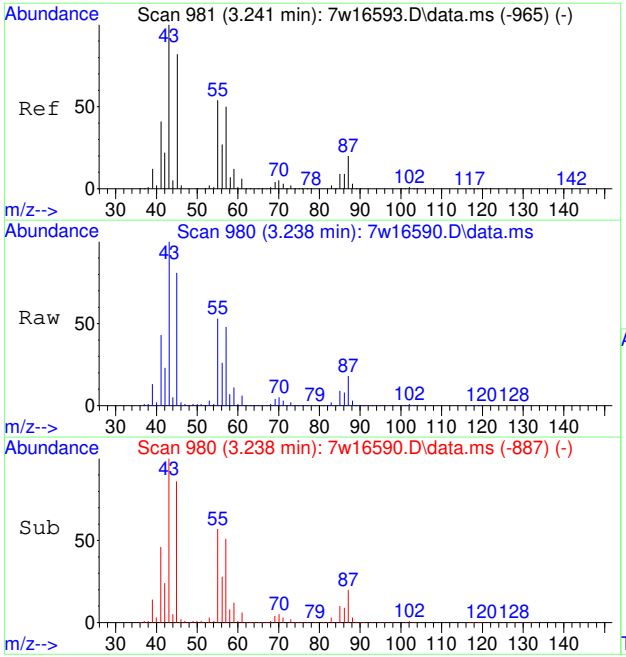


#37
TETRAHYDROFURAN
Concen: 9.70 PPBV
RT: 3.466 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 57483

Ion	Ratio	Lower	Upper
72	100		
42	257.5	153.0	284.2
71	94.0	62.7	116.5

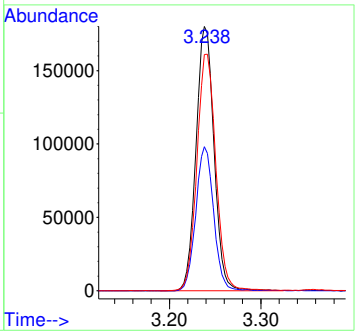


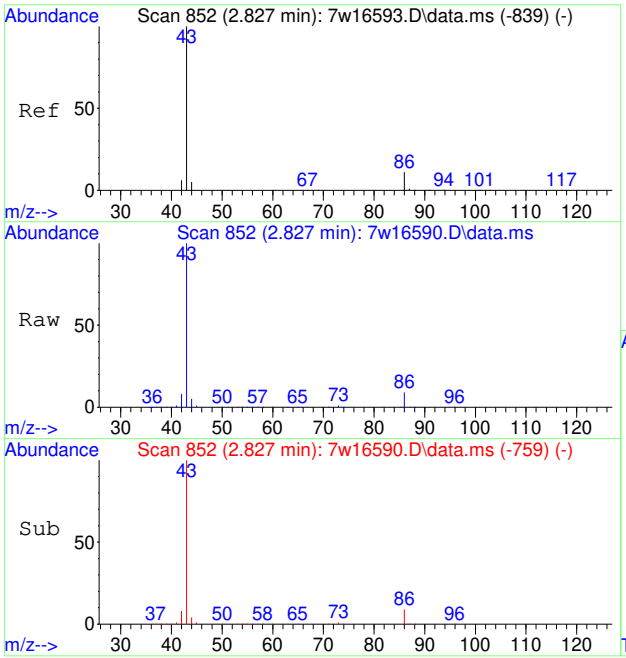


#38
HEXANE
Concen: 10.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 246511

Ion	Ratio	Lower	Upper
57	100		
56	54.3	37.3	69.3
41	94.2	86.7	161.1

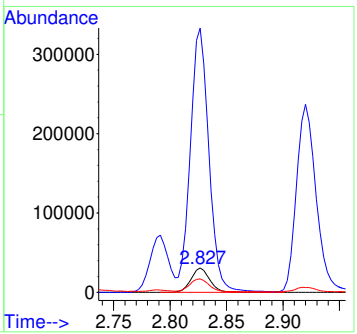


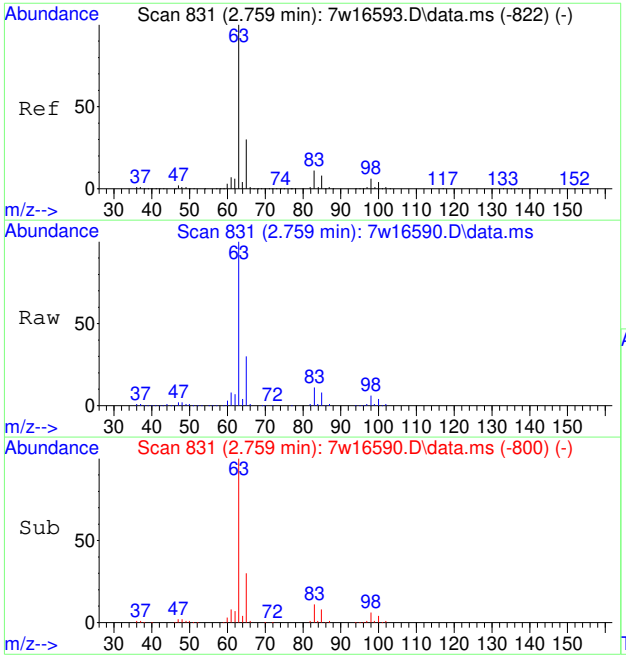


#39
VINYL ACETATE
Concen: 10.20 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 86 Resp: 35168

Ion	Ratio	Lower	Upper
86	100		
43	1083.8	667.9	1240.3
44	56.4	32.7	60.7

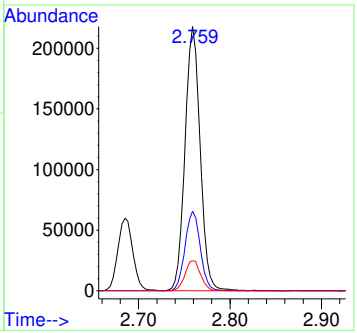


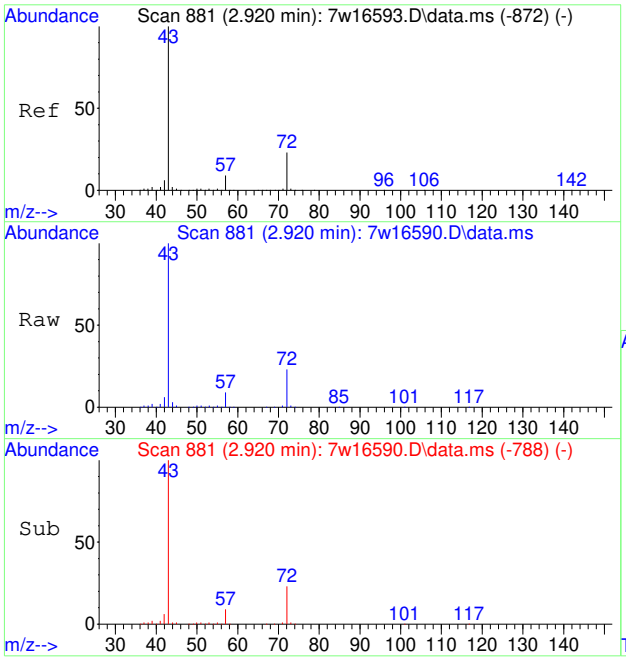


#40
1,1-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 250914

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.8	40.6
83	11.9	10.6	19.6

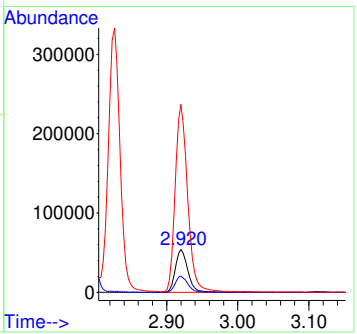


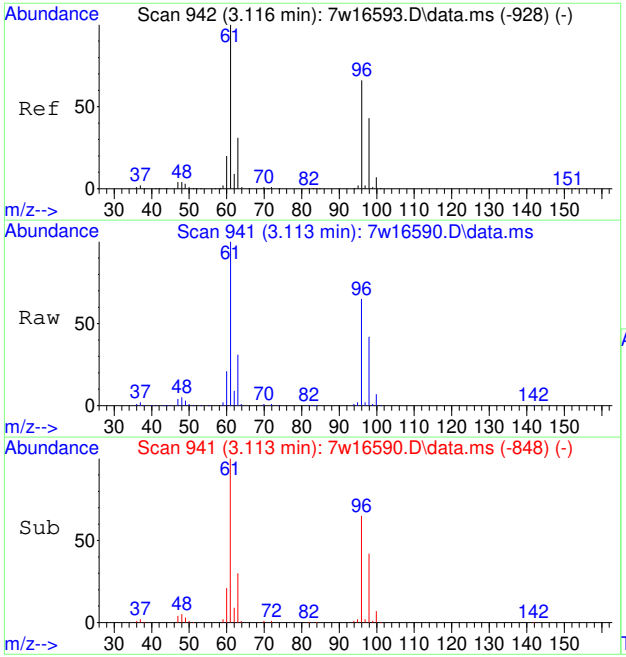


#41
METHYL ETHYL KETONE
Concen: 10.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 65983

Ion	Ratio	Lower	Upper
72	100		
57	38.4	20.3	37.7#
43	442.0	282.8	525.2

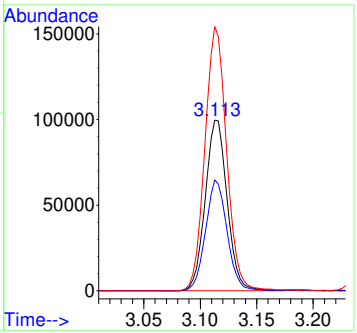


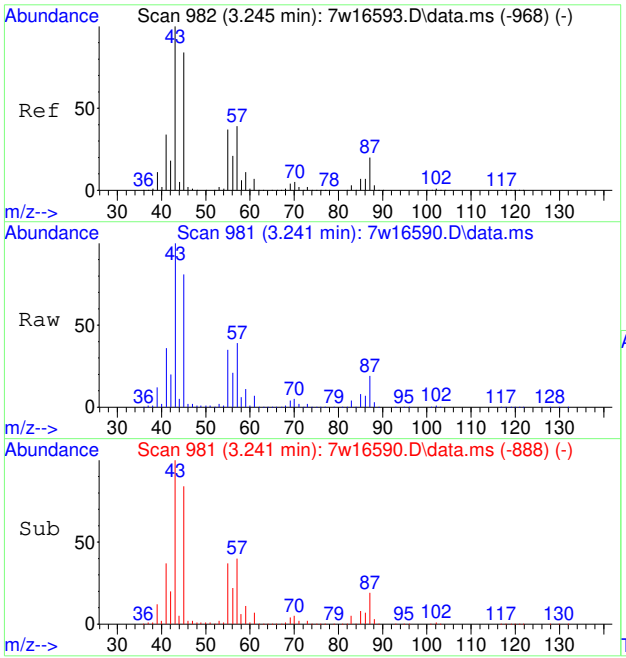


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.34 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 134402

Ion	Ratio	Lower	Upper
96	100		
98	63.9	46.8	86.8
61	153.3	78.3	145.5#

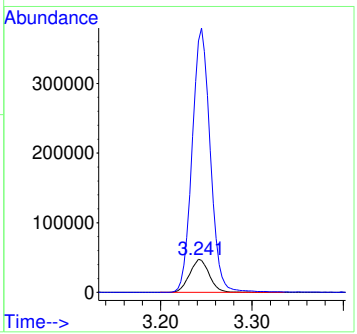




#43
DIISOPROPYL ETHER
Concen: 10.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

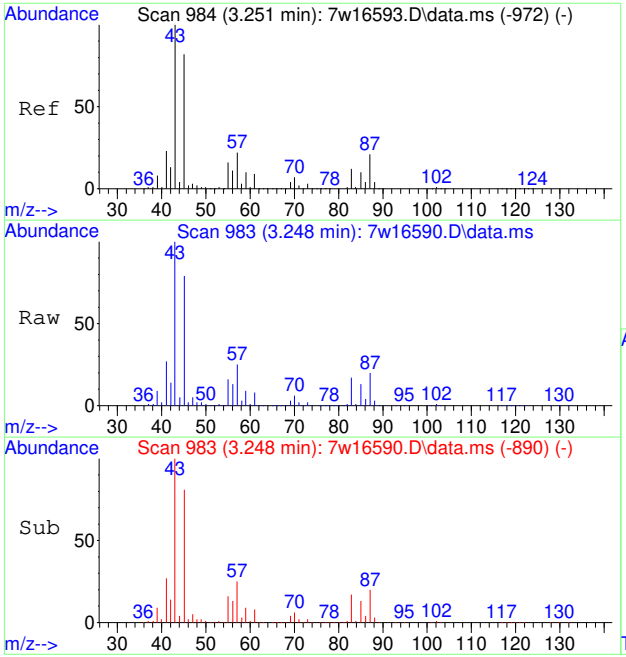
Tgt Ion: 59 Resp: 70916

Ion	Ratio	Lower	Upper
59	100		
45	739.4	532.1	988.1



7.7.18

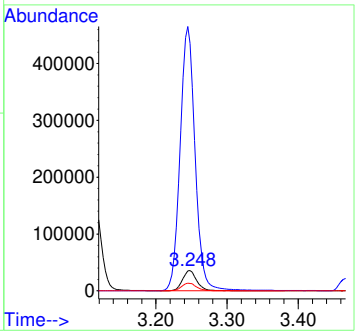
7

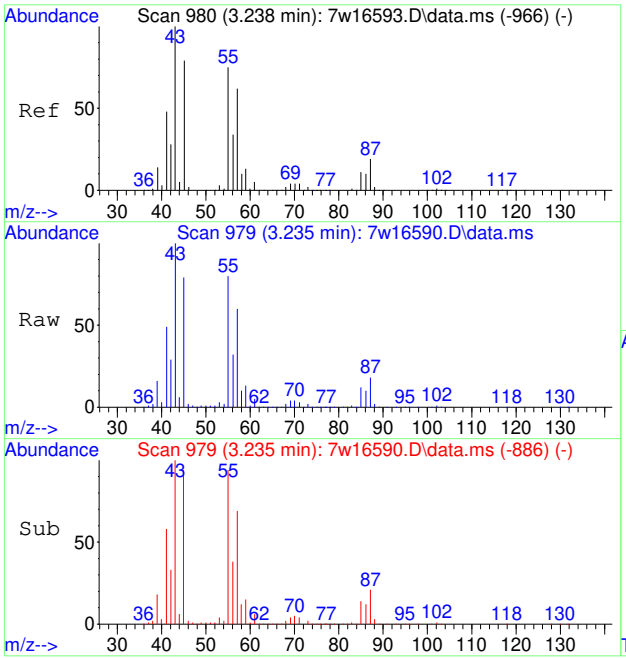


#44
ETHYL ACETATE
Concen: 10.49 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 61 Resp: 50059

Ion	Ratio	Lower	Upper
61	100		
43	1364.9	1127.5	2093.9
88	39.4	36.2	67.2

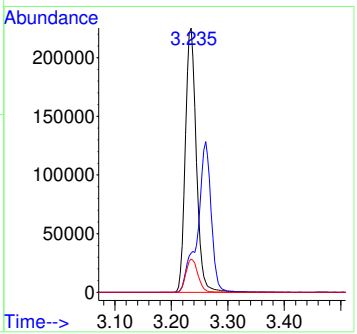


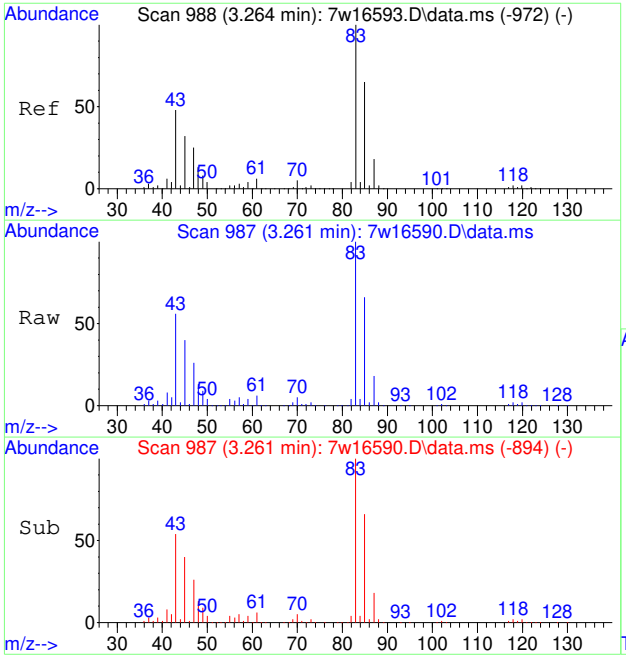


#45
METHYL ACRYLATE
Concen: 10.50 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 305217

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.8	9.2	17.0

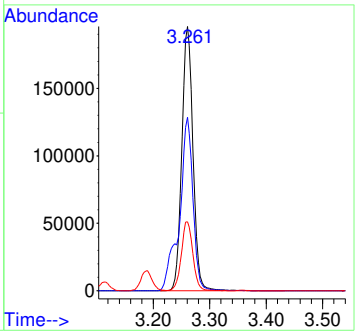


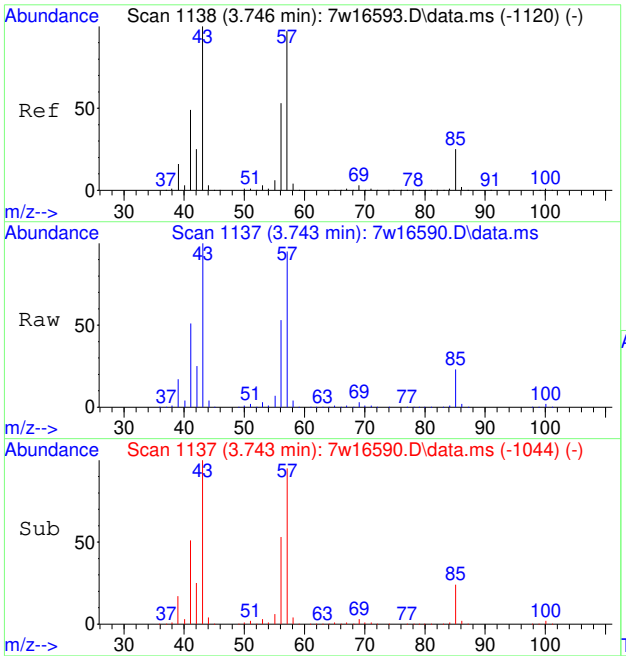


#46
CHLOROFORM
Concen: 10.50 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 269897

Ion	Ratio	Lower	Upper
83	100		
85	80.0	54.6	101.4
47	27.2	17.9	33.3

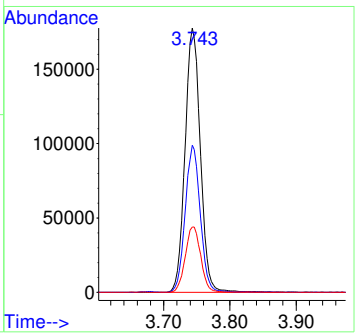


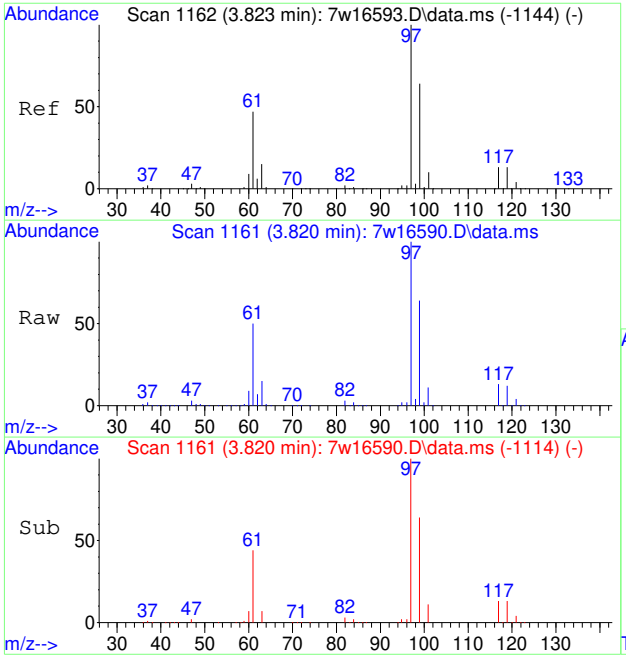


#47
2,4-DIMETHYLPENTANE
Concen: 10.70 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 286654

Ion	Ratio	Lower	Upper
57	100		
56	54.8	39.2	72.8
85	25.0	24.1	44.7

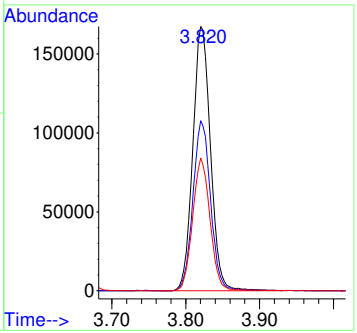


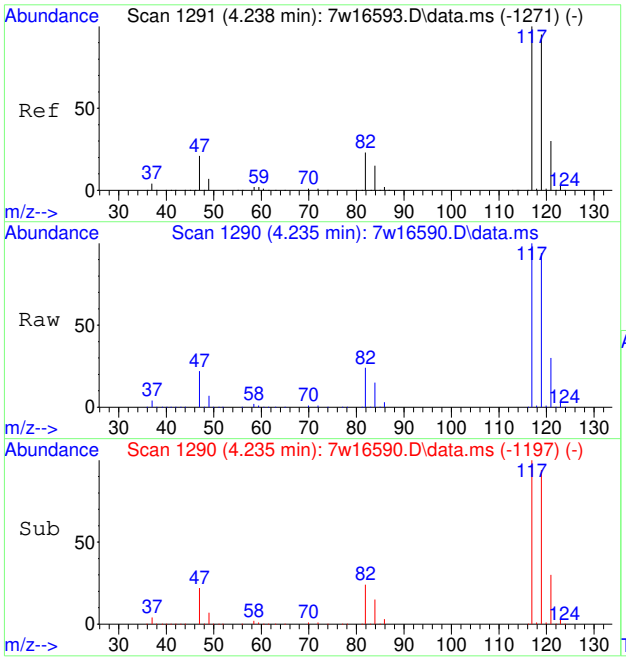


#48
1,1,1-TRICHLOROETHANE
Concen: 10.38 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 97 Resp: 278334

Ion	Ratio	Lower	Upper
97	100		
99	64.3	44.9	83.5
61	49.6	28.6	53.0

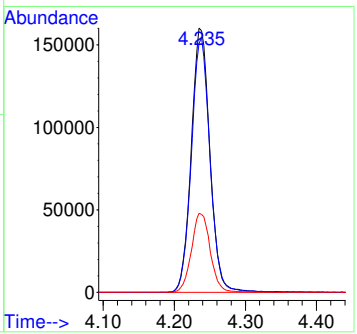


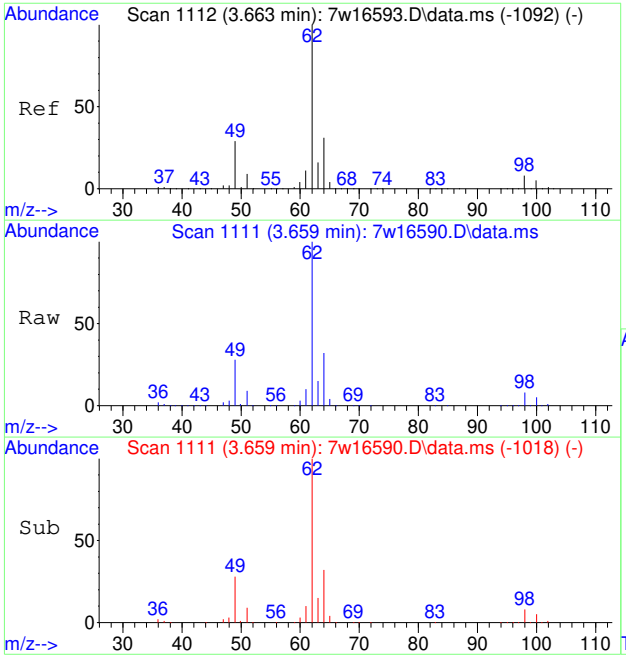


#49
CARBON TETRACHLORIDE
Concen: 10.20 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 291854

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

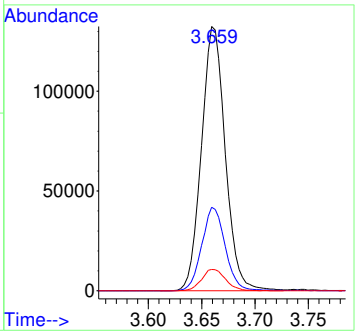


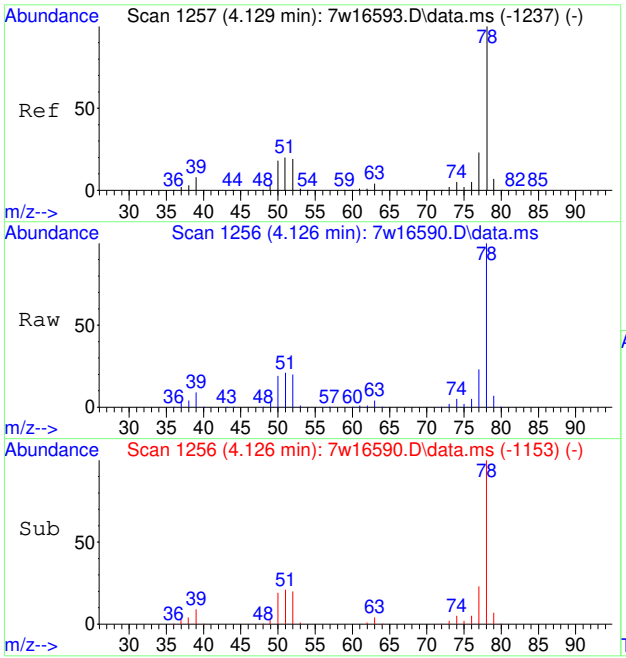


#50
1,2-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 205888

Ion	Ratio	Lower	Upper
62	100		
64	31.2	22.5	41.7
98	8.3	6.8	12.6

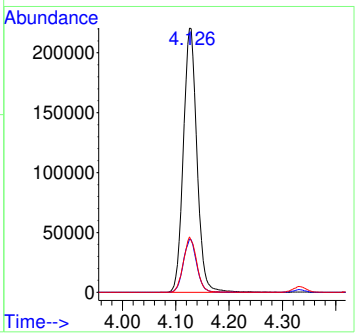


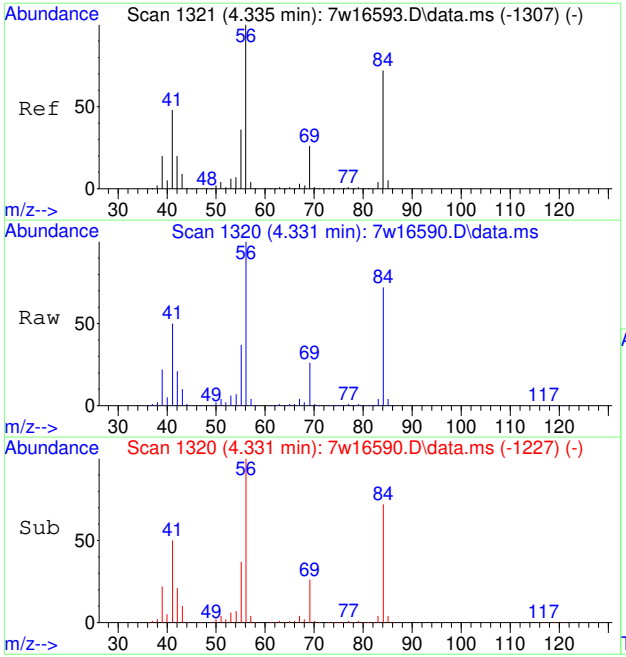


#51
BENZENE
Concen: 10.41 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 78 Resp: 391334

Ion	Ratio	Lower	Upper
78	100		
52	19.9	0.0	44.6
51	20.6	0.0	47.3

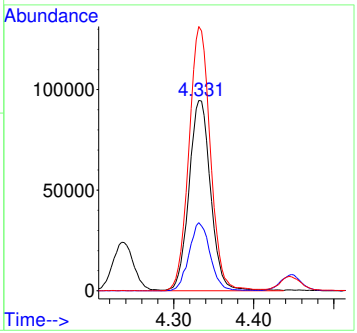


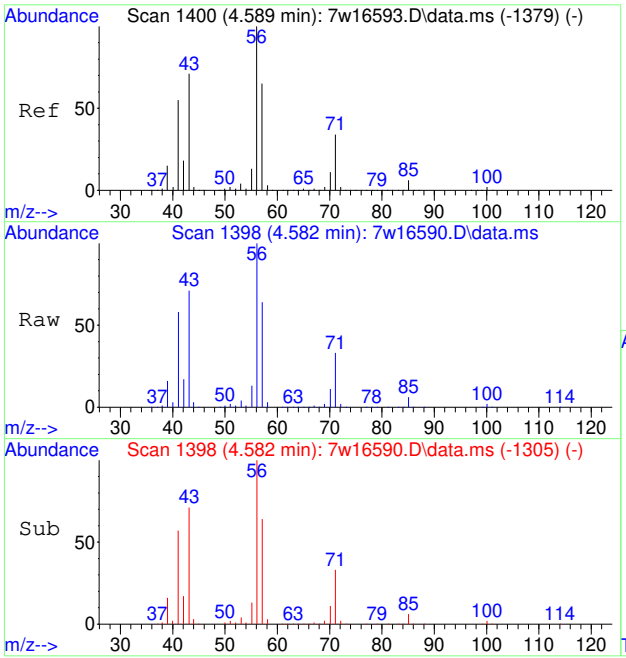


#53
CYCLOHEXANE
Concen: 10.40 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 177560

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	137.7	70.2	130.4#

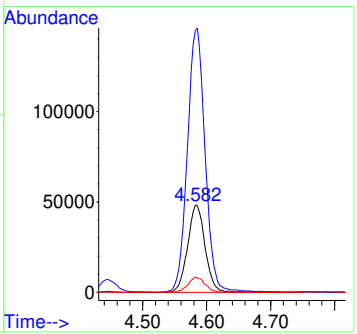


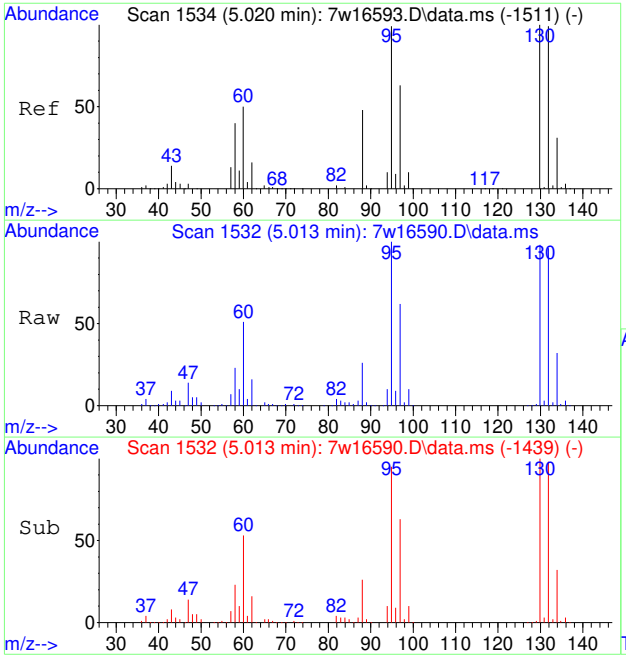


#54
2,3-DIMETHYLPENTANE
Concen: 10.60 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 71 Resp: 92078

Ion	Ratio	Lower	Upper
71	100		
56	304.6	171.4	318.4
85	17.4	12.6	23.4

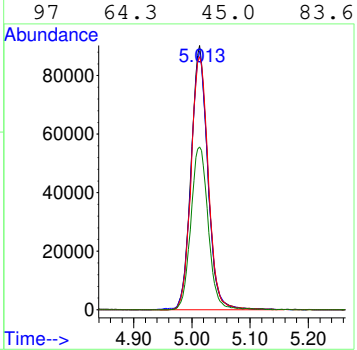


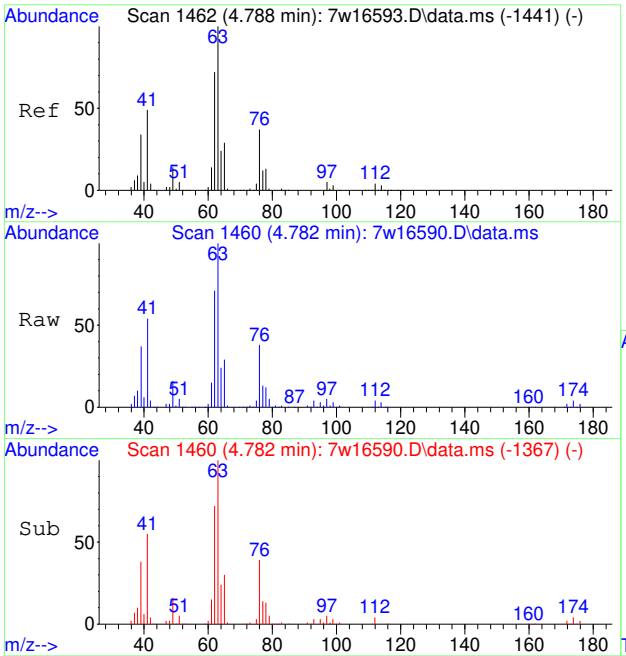


#55
TRICHLOROETHENE
Concen: 9.90 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 95 Resp: 180016

Ion	Ratio	Lower	Upper
95	100		
130	99.2	85.9	159.5
132	99.1	79.4	147.4
97	64.3	45.0	83.6

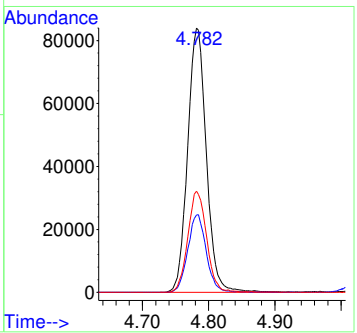


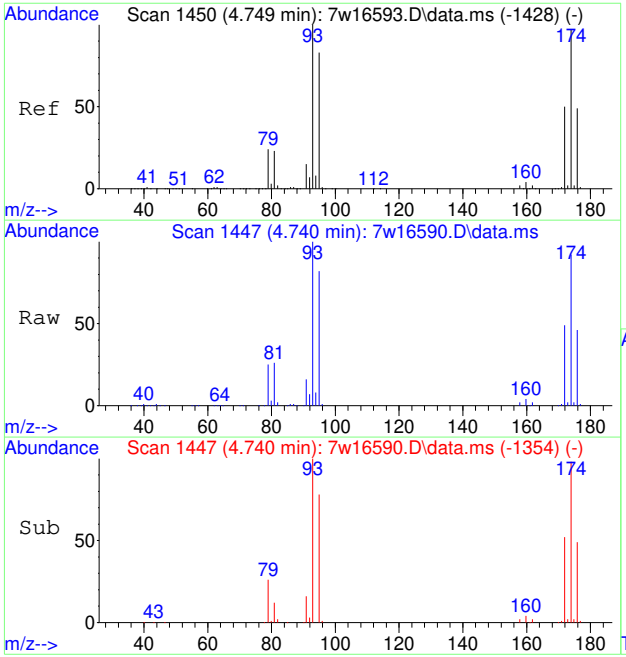


#56
1,2-DICHLOROPROPANE
Concen: 10.30 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 164997

Ion	Ratio	Lower	Upper
63	100		
65	29.3	22.6	42.0
76	38.7	31.8	59.0

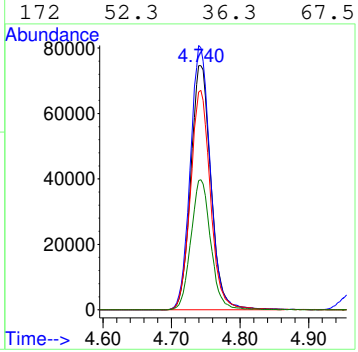


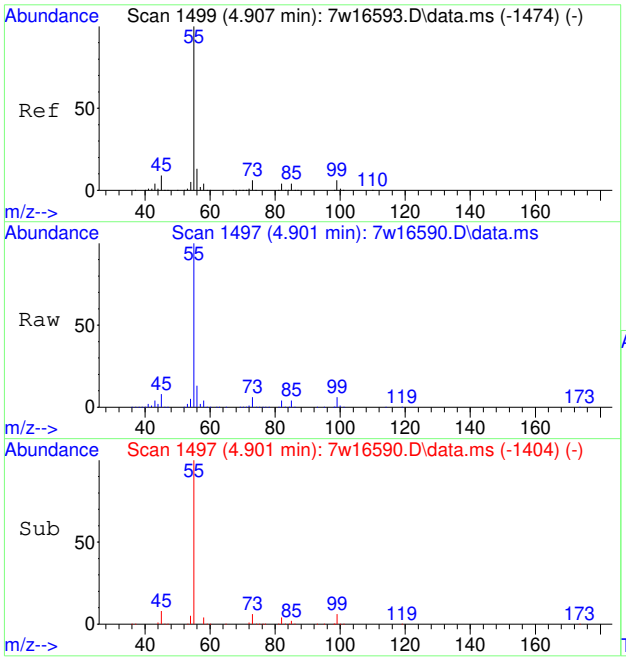


#57
DIBROMOMETHANE
Concen: 10.28 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:174 Resp: 152742

Ion	Ratio	Lower	Upper
174	100		
93	107.6	67.3	125.1
95	89.1	56.8	105.6
172	52.3	36.3	67.5

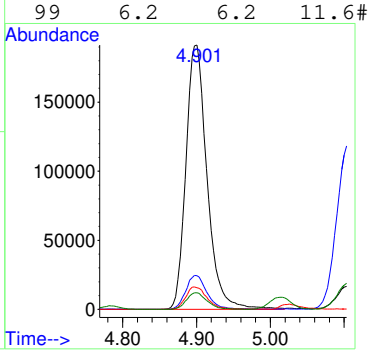


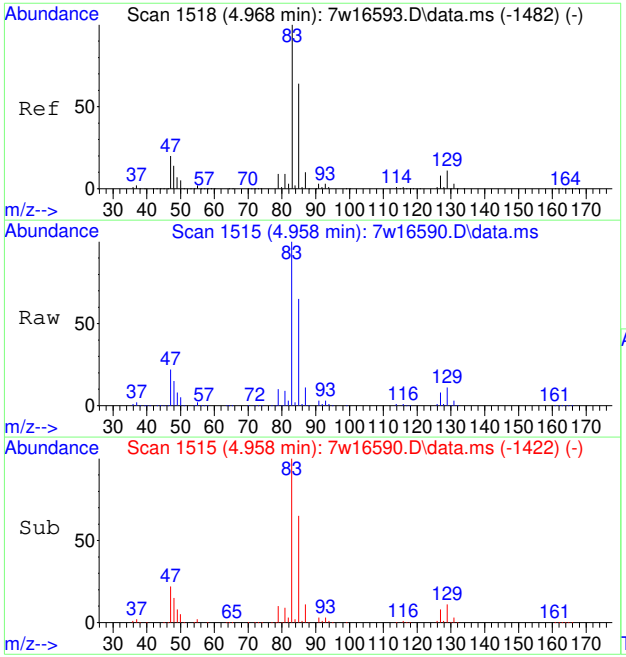


#58
ETHYL ACRYLATE
Concen: 10.50 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 381569

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.7	6.6	12.2
99	6.2	6.2	11.6#

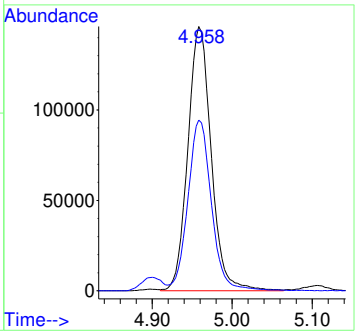


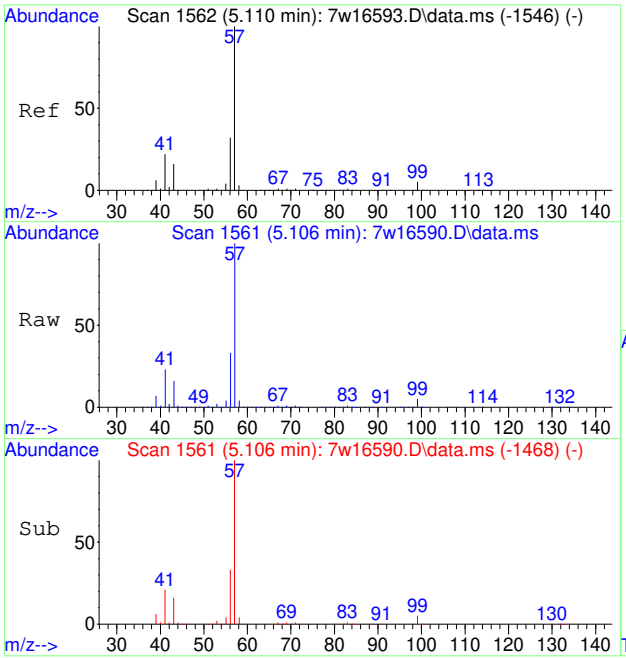


#59
BROMODICHLOROMETHANE
Concen: 9.90 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 297999

Ion	Ratio	Lower	Upper
83	100		
85	65.2	44.9	83.5

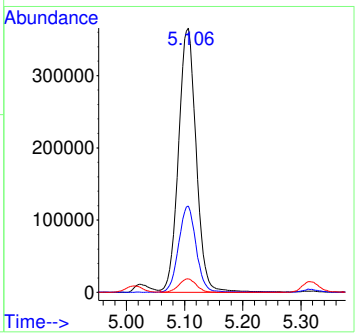


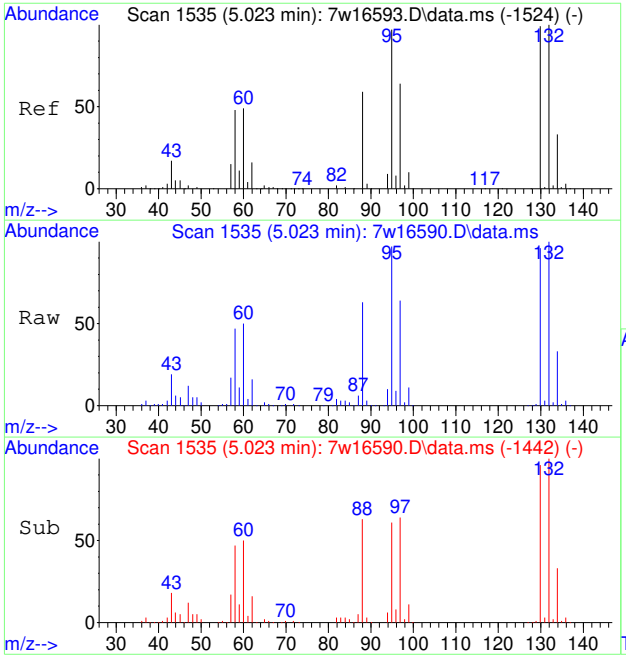


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.20 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 772831

Ion	Ratio	Lower	Upper
57	100		
56	32.3	24.4	45.2
99	5.2	5.2	9.6#

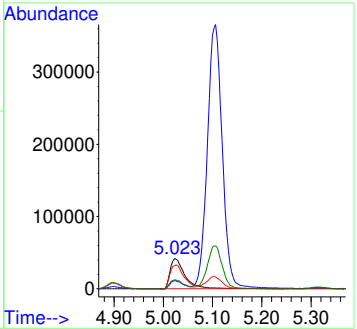


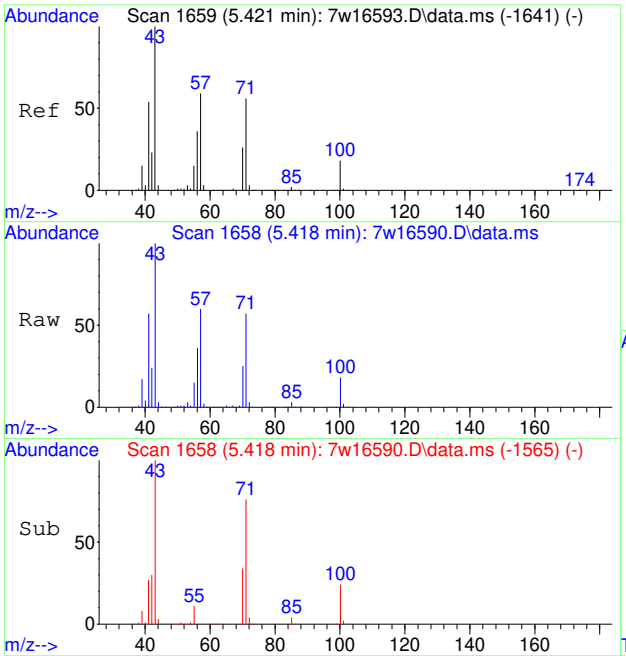


#61
1,4-DIOXANE
Concen: 9.94 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 88 Resp: 89212

Ion	Ratio	Lower	Upper
88	100		
57	23.8	13.1	24.3
58	74.9	39.1	72.5#
43	26.4	18.3	33.9

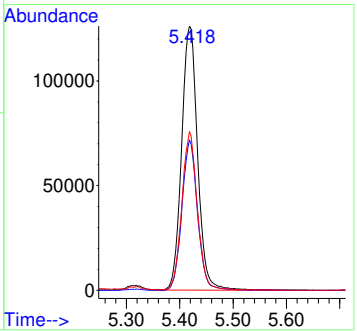


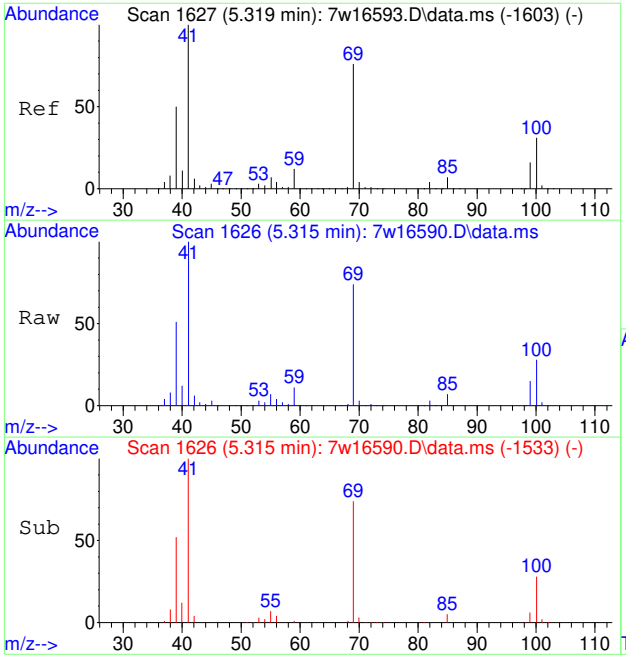


#62
HEPTANE
Concen: 10.40 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 263524

Ion	Ratio	Lower	Upper
43	100		
71	55.5	45.0	83.6
57	57.9	37.2	69.0

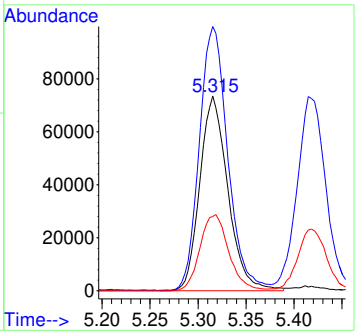


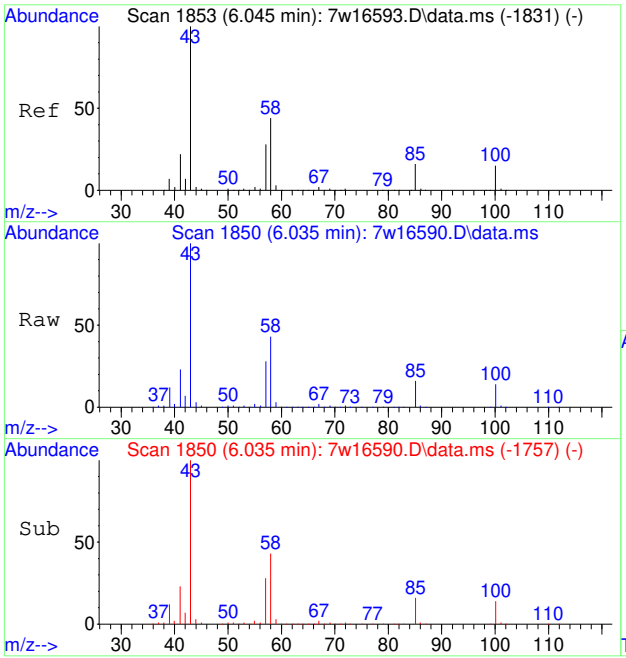


#63
METHYL METHACRYLATE
Concen: 10.30 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 149851

Ion	Ratio	Lower	Upper
69	100		
41	136.5	84.3	156.5
100	40.1	30.8	57.2

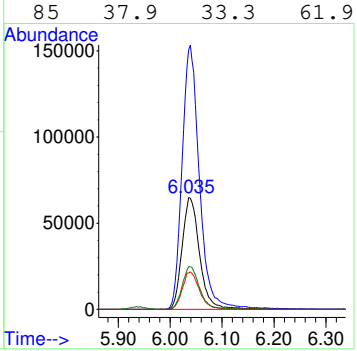


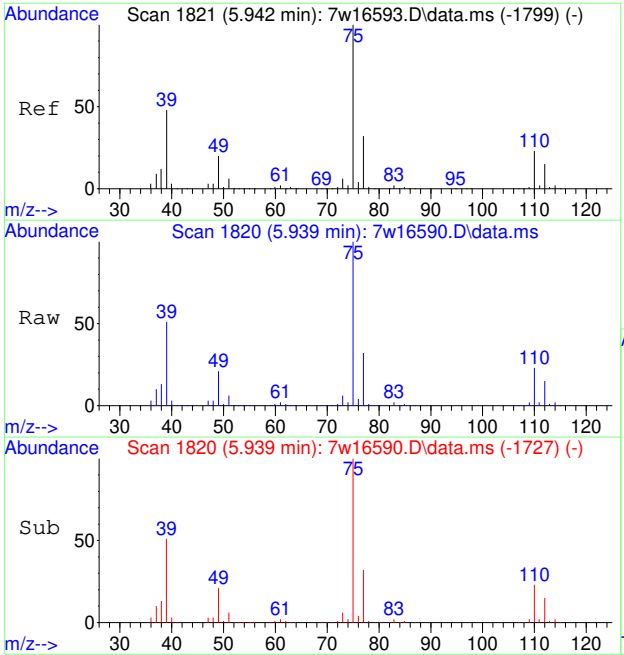


#64
METHYL ISOBUTYL KETONE
Concen: 10.20 PPBV
RT: 6.035 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 152356

Ion	Ratio	Lower	Upper
58	100		
43	234.0	193.8	360.0
100	33.2	32.8	60.8
85	37.9	33.3	61.9

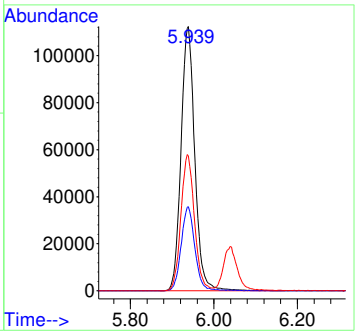


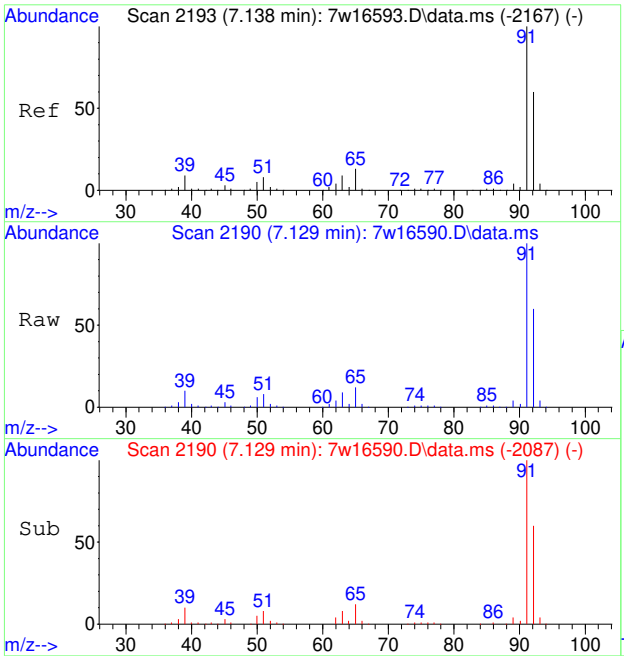


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.12 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 257147

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.0	38.5	71.5

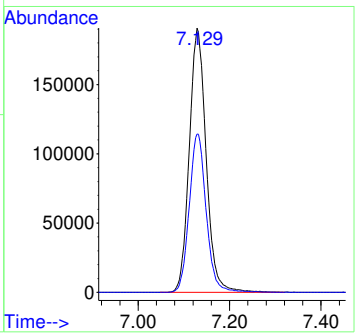


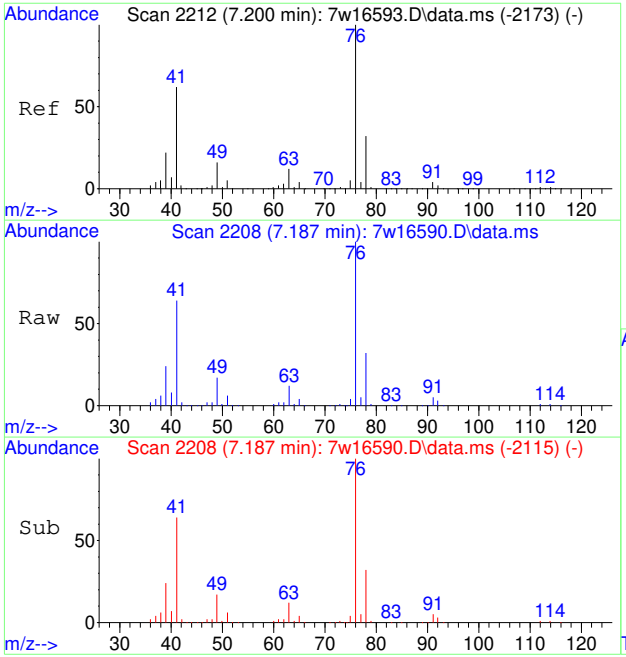


#66
TOLUENE
Concen: 10.60 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 488762

Ion	Ratio	Lower	Upper
91	100		
92	60.3	28.1	88.1

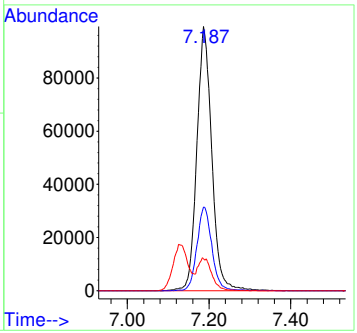


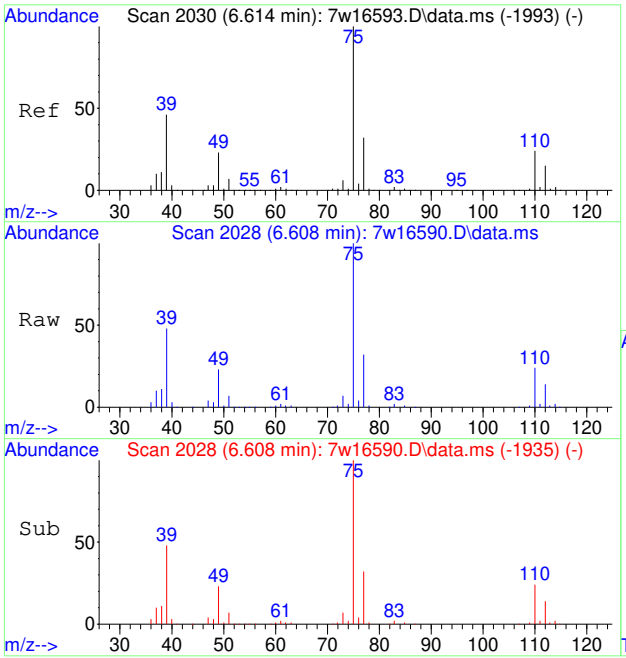


#67
1,3-DICHLOROPROPANE
Concen: 10.60 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 252760

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	11.9	8.0	14.8

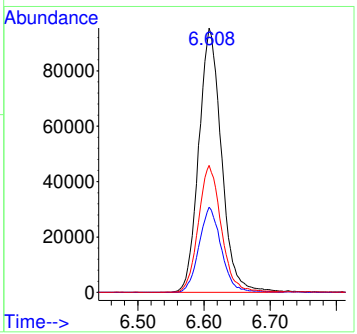


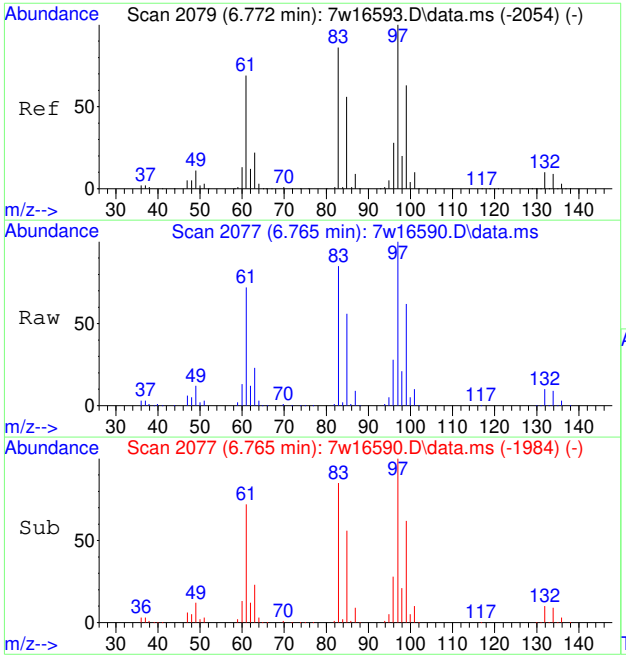


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 9.56 PPBV
RT: 6.608 min Scan# 2028
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 227014

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.5	41.7
39	48.5	37.2	69.0

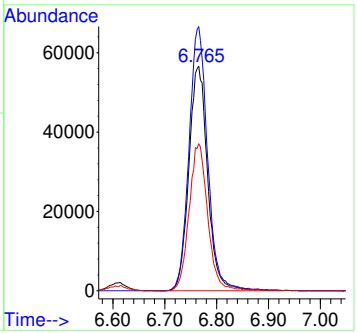


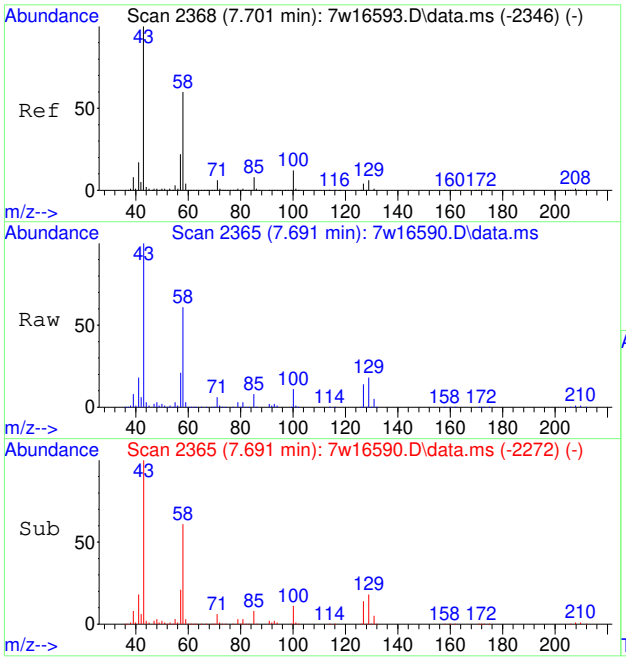


#69
1,1,2-TRICHLOROETHANE
Concen: 10.50 PPBV
RT: 6.765 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 143412

Ion	Ratio	Lower	Upper
83	100		
97	116.0	86.7	160.9
85	64.4	45.5	84.5

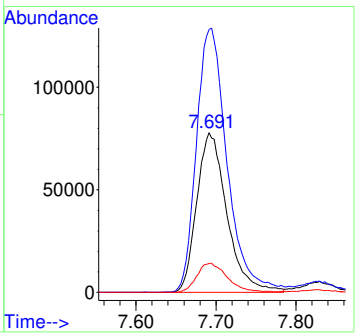


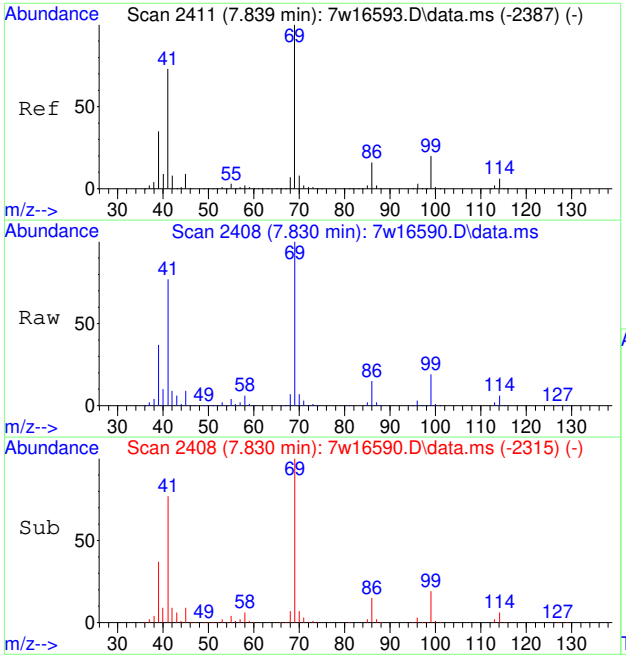


#70
2-HEXANONE
Concen: 10.38 PPBV
RT: 7.691 min Scan# 2365
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 203944

Ion	Ratio	Lower	Upper
58	100		
43	169.4	141.7	263.3
100	18.6	18.9	35.1#

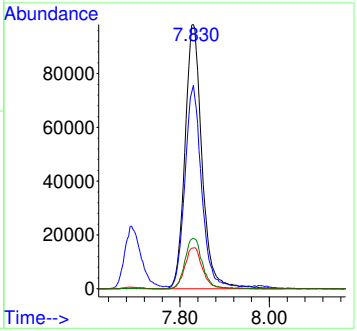


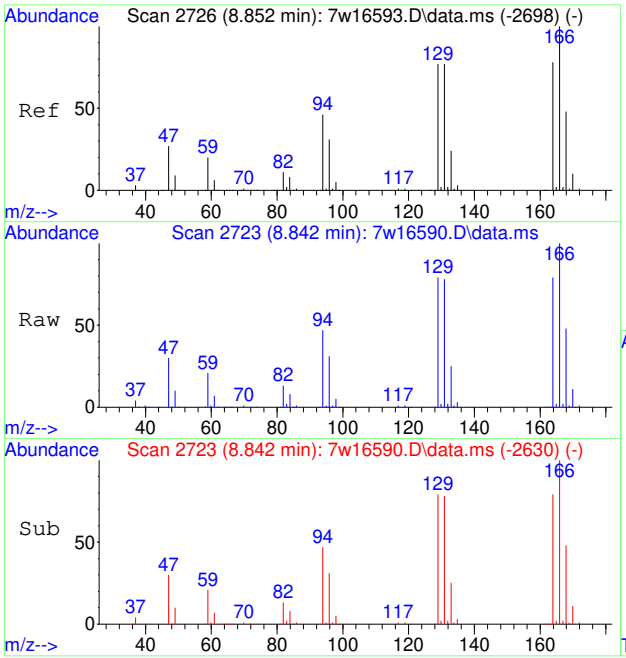


#71
ETHYL METHACRYLATE
Concen: 10.39 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 260130

Ion	Ratio	Lower	Upper
69	100		
41	76.6	49.3	91.6
86	16.1	11.6	21.6
99	19.7	13.4	24.8

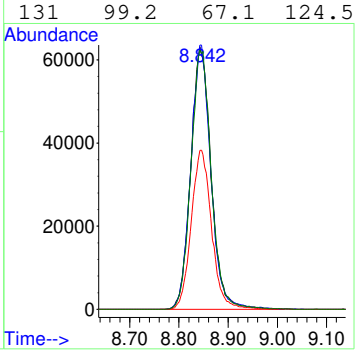


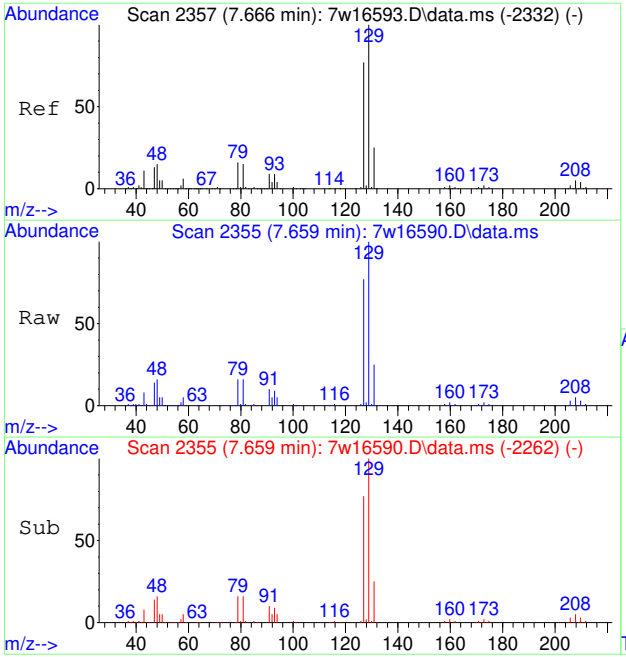


#72
TETRACHLOROETHENE
Concen: 10.70 PPBV
RT: 8.842 min Scan# 2723
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:164 Resp: 181618

Ion	Ratio	Lower	Upper
164	100		
129	99.4	69.7	129.5
168	60.7	43.4	80.6
131	99.2	67.1	124.5

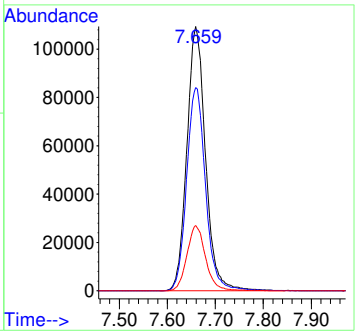


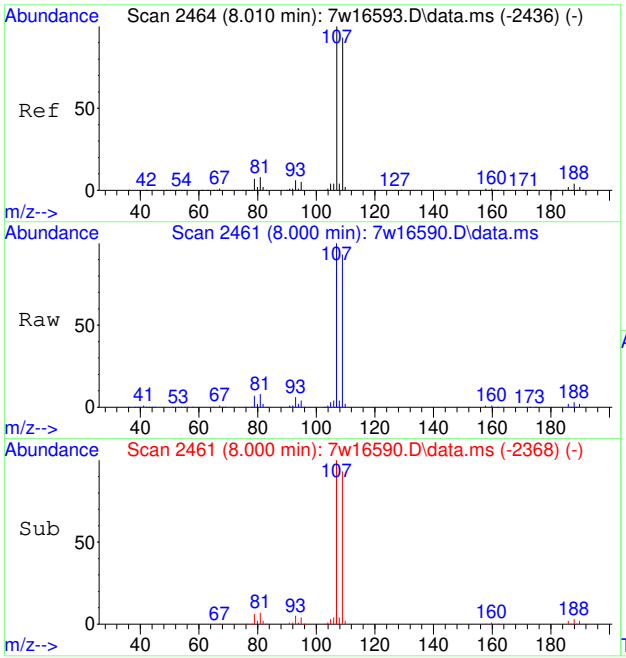


#73
DIBROMOCHLOROMETHANE
Concen: 10.40 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:129 Resp: 295382

Ion	Ratio	Lower	Upper
129	100		
127	78.2	53.0	98.4
131	24.9	16.9	31.3

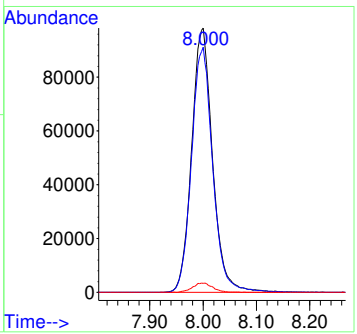


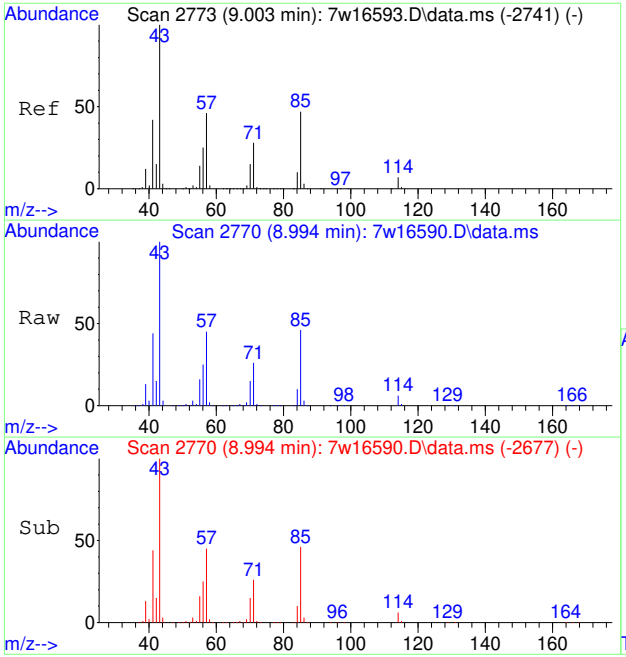


#74
1,2-DIBROMOETHANE
Concen: 10.99 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:107 Resp: 267727

Ion	Ratio	Lower	Upper
107	100		
109	94.5	65.7	122.1
188	3.5	2.4	4.4

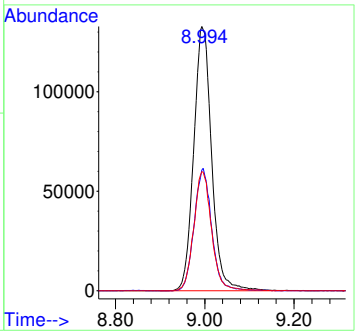


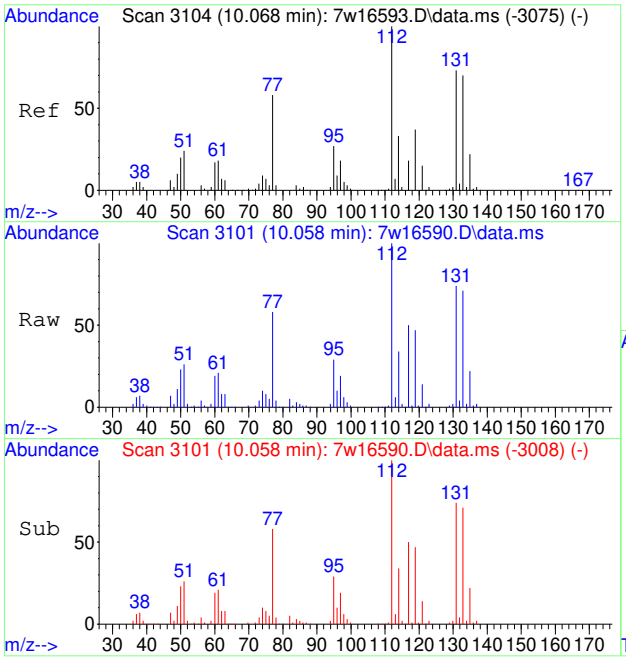


#75
OCTANE
Concen: 10.70 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 371213

Ion	Ratio	Lower	Upper
43	100		
85	45.4	36.5	67.9
57	44.8	27.6	51.2

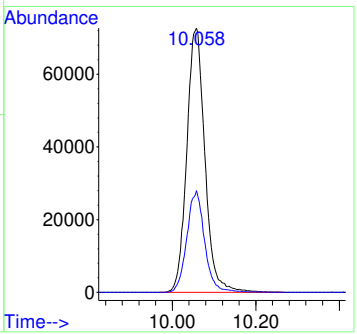


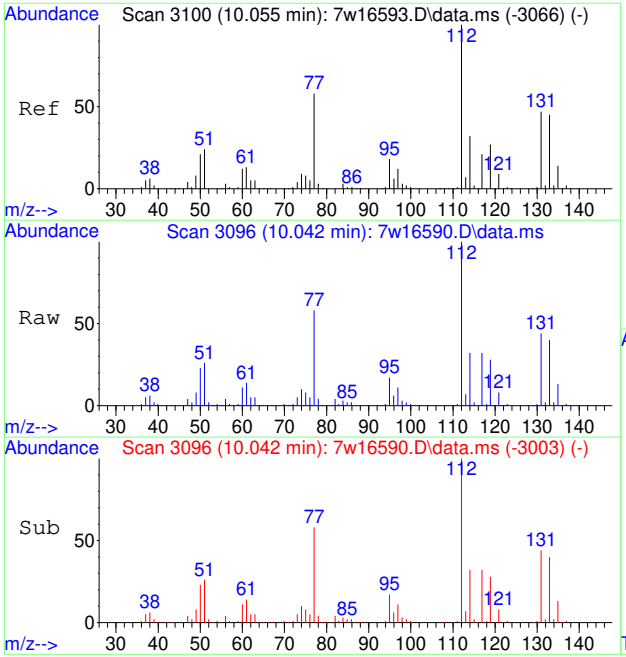


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.90 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:131 Resp: 219545

Ion	Ratio	Lower	Upper
131	100		
95	37.8	23.7	43.9

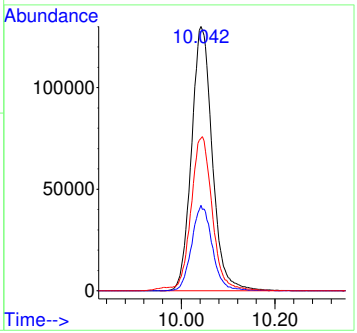


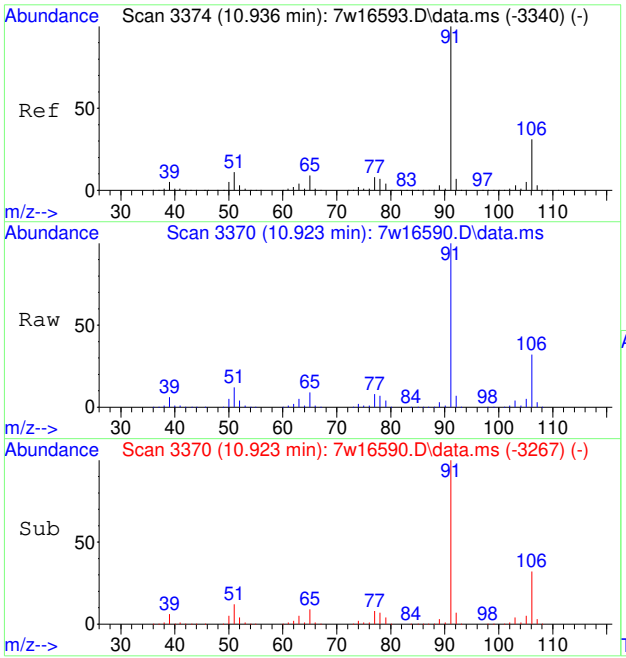


#78
CHLOROBENZENE
Concen: 10.90 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:112 Resp: 401465

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.9	42.5
77	60.1	34.4	63.8

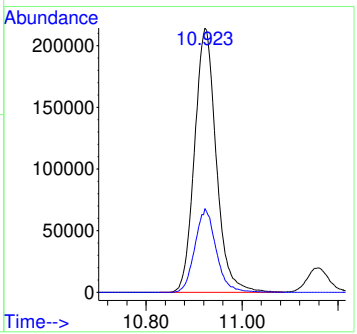


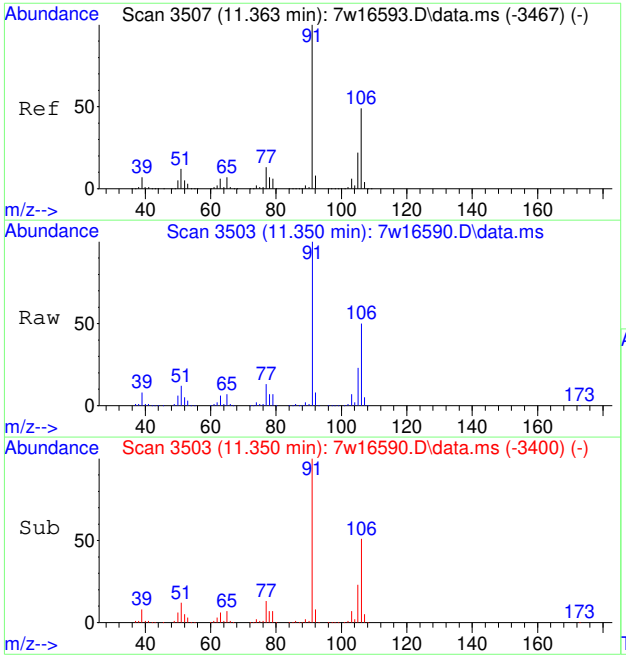


#79
ETHYLBENZENE
Concen: 11.00 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 667794

Ion	Ratio	Lower	Upper
91	100		
106	31.1	2.8	62.8

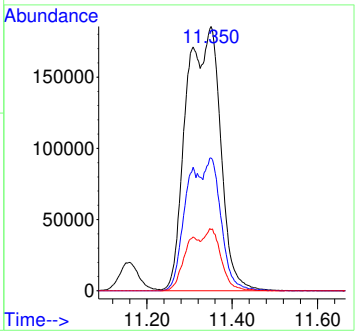


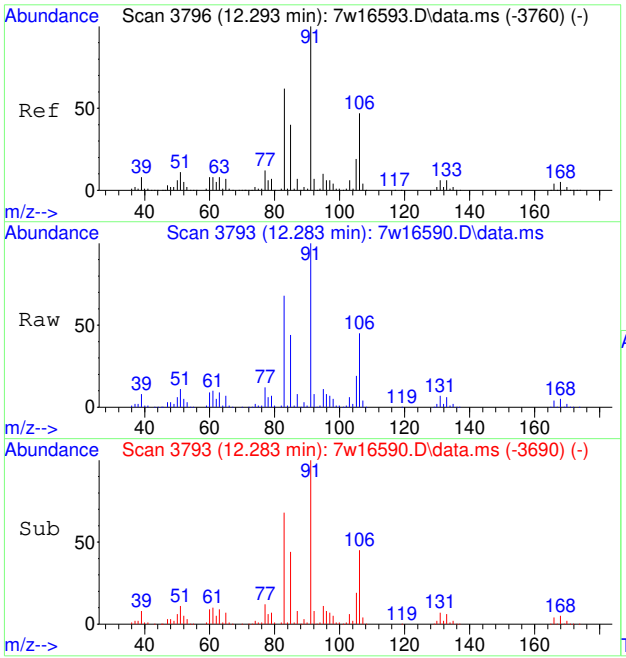


#80
M,P-XYLENE
Concen: 21.20 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 1033120

Ion	Ratio	Lower	Upper
91	100		
106	26.1	0.0	58.7
105	12.1	0.0	43.2

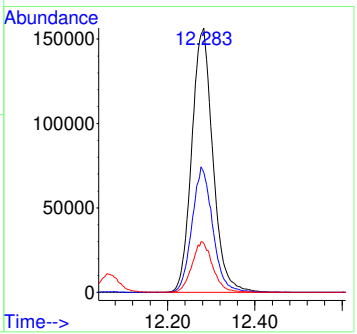


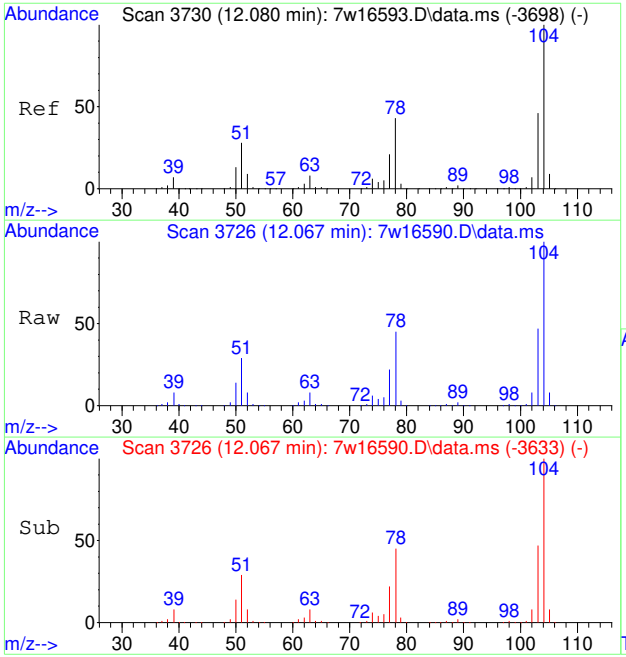


#81
O-XYLENE
Concen: 11.00 PPBV
RT: 12.283 min Scan# 3793
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 525465

Ion	Ratio	Lower	Upper
91	100		
106	45.4	34.1	63.3
105	18.6	14.6	27.2

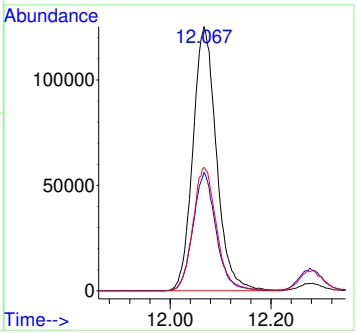


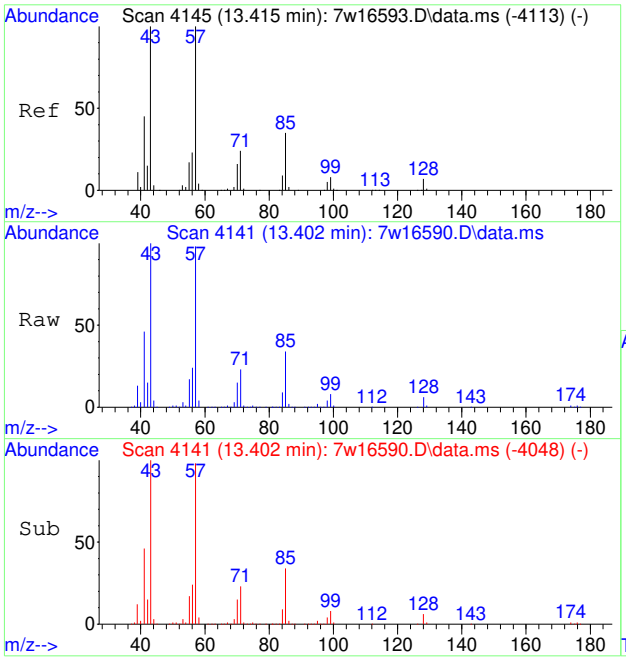


#82
STYRENE
Concen: 10.90 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:104 Resp: 405889

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	46.9	33.2	61.7

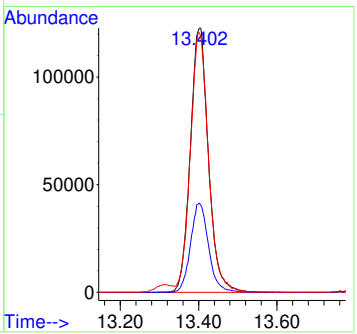


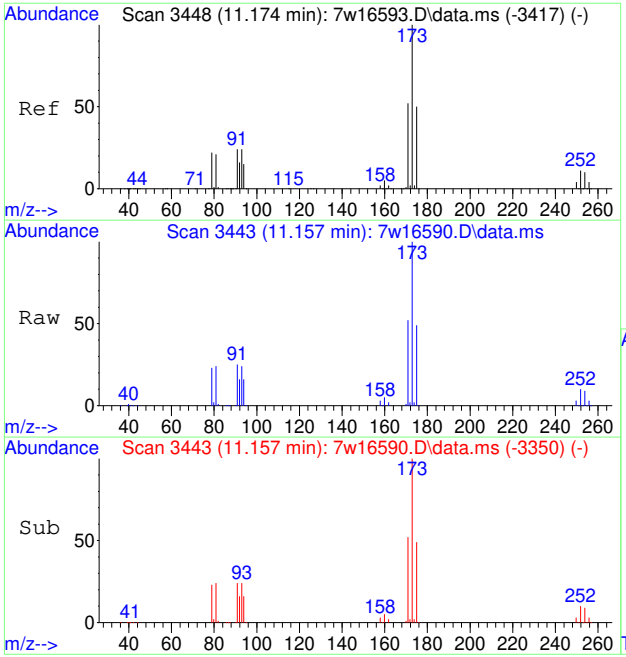


#83
NONANE
Concen: 10.80 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 395697

Ion	Ratio	Lower	Upper
43	100		
85	33.4	27.6	51.2
57	98.9	56.4	104.7

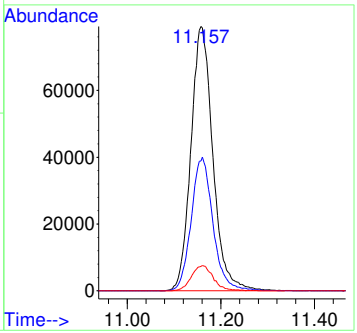


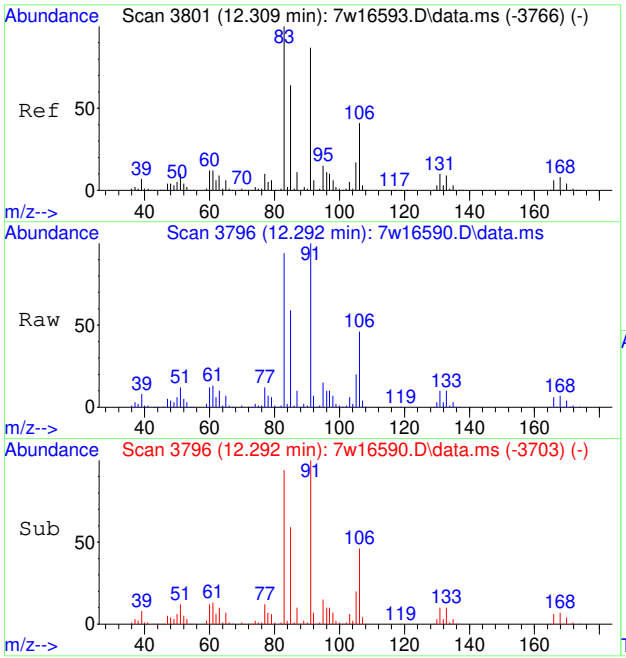


#84
BROMOFORM
Concen: 10.60 PPBV
RT: 11.157 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:173 Resp: 257628

Ion	Ratio	Lower	Upper
173	100		
175	50.1	33.0	61.4
254	9.6	5.9	10.9

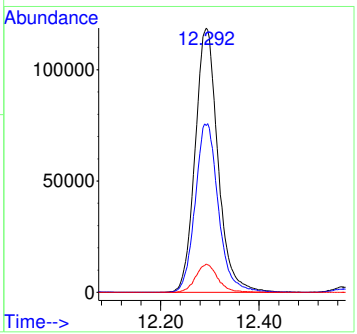


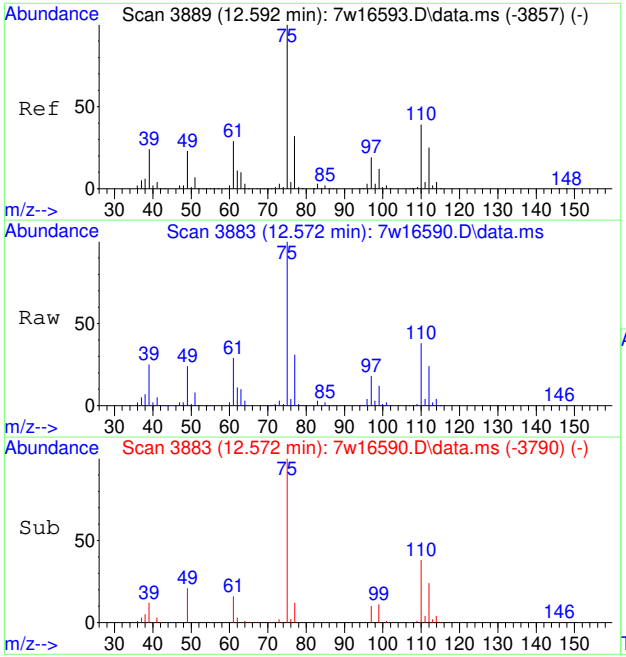


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 10.99 PPBV
RT: 12.292 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 382601

Ion	Ratio	Lower	Upper
83	100		
85	65.0	44.6	82.8
131	10.4	8.0	14.8

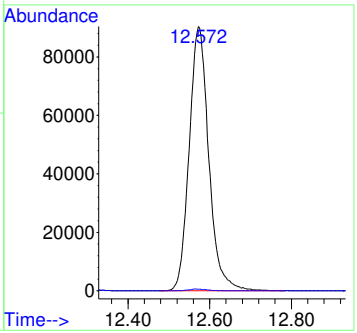


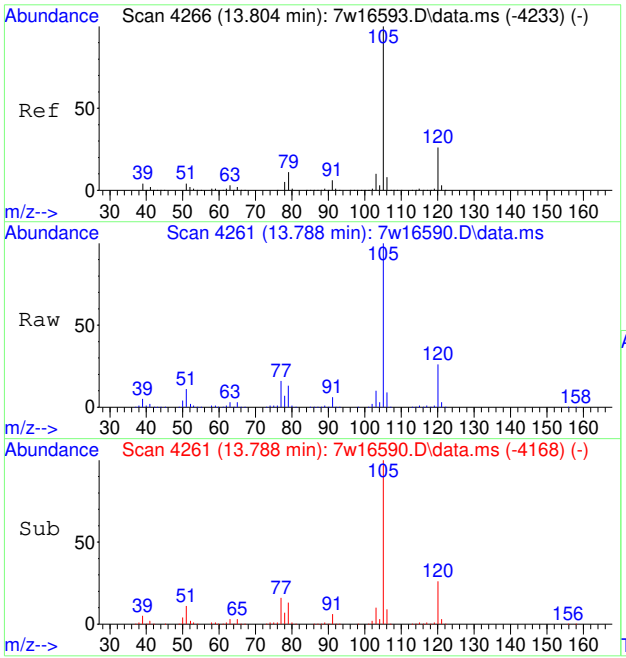


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.00 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 301186

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

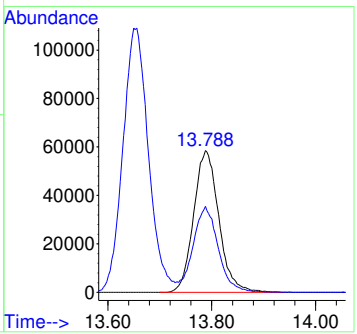


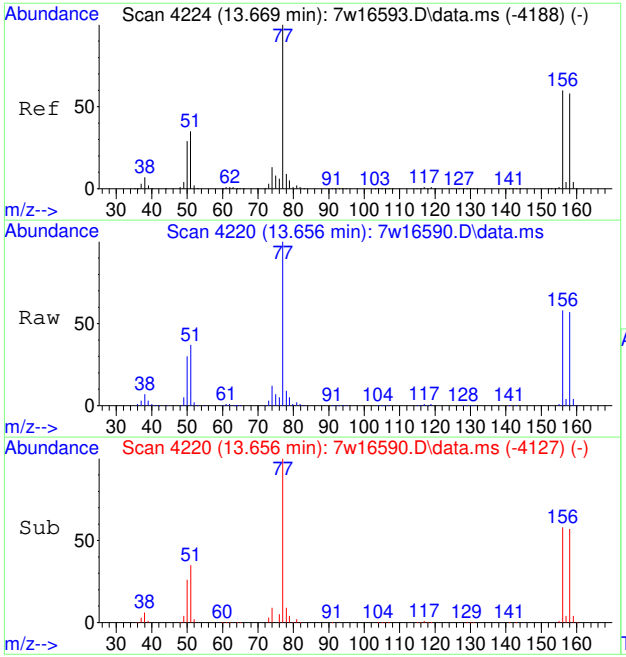


#88
ISOPROPYLBENZENE
Concen: 10.80 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 197546

Ion	Ratio	Lower	Upper
120	100		
77	60.7	36.0	67.0

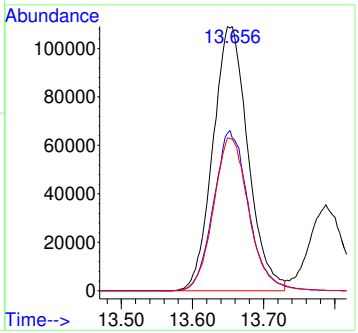


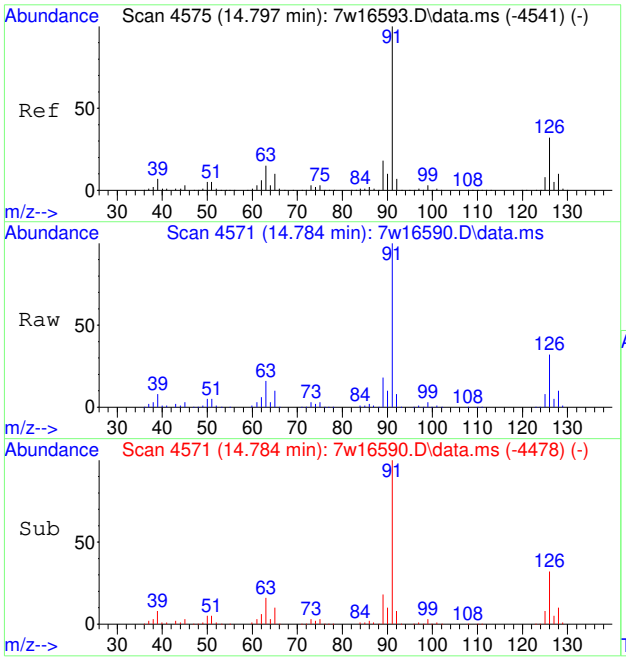


#89
BROMOBENZENE
Concen: 10.80 PPBV
RT: 13.656 min Scan# 4220
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 77 Resp: 373873

Ion	Ratio	Lower	Upper
77	100		
156	60.6	57.9	107.5
158	58.5	55.7	103.5

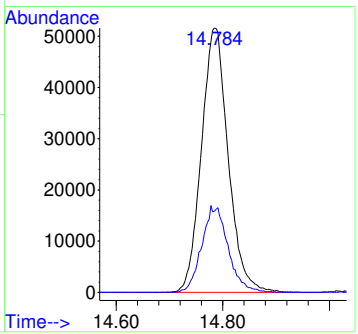


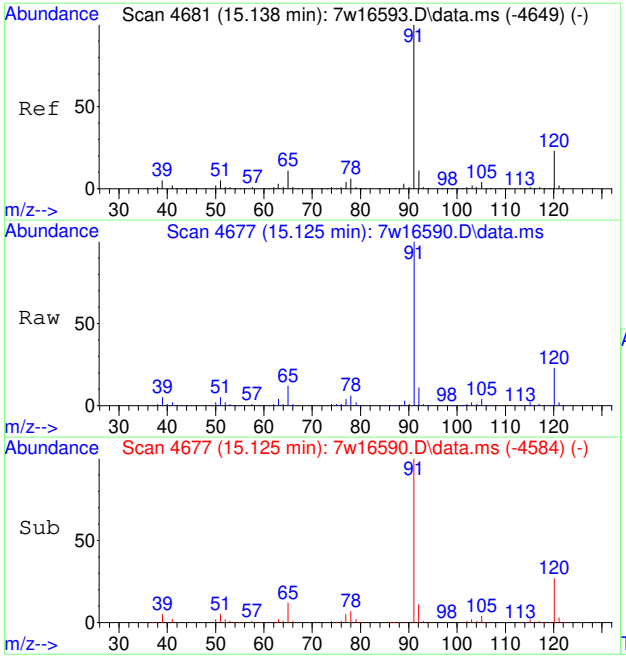


#90
2-CHLOROTOLUENE
Concen: 10.39 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:126 Resp: 179837

Ion	Ratio	Lower	Upper
126	100		
128	32.1	22.7	42.1

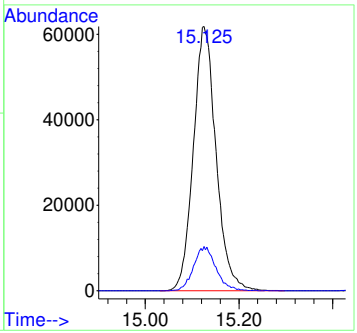


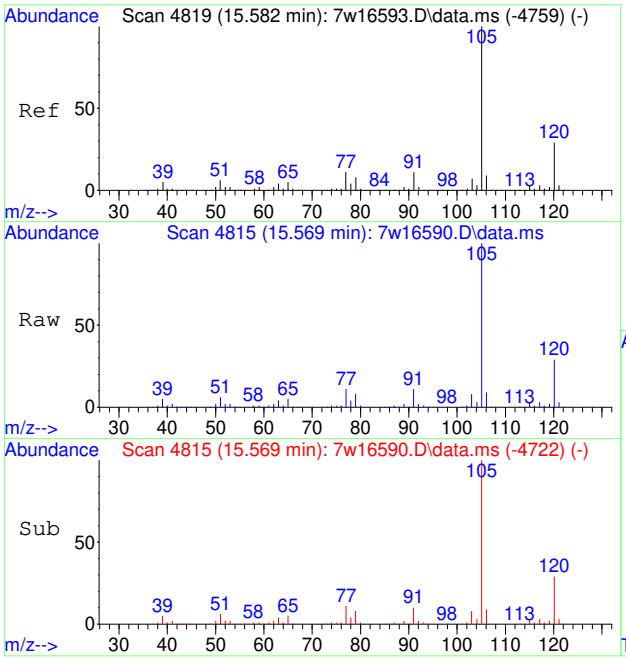


#91
N-PROPYLBENZENE
Concen: 10.50 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 208155

Ion	Ratio	Lower	Upper
120	100		
105	16.5	10.6	19.6

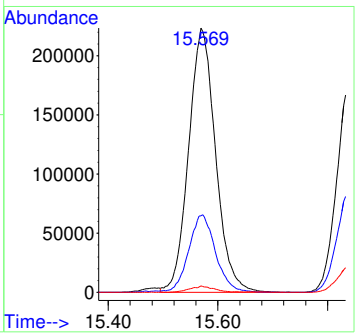


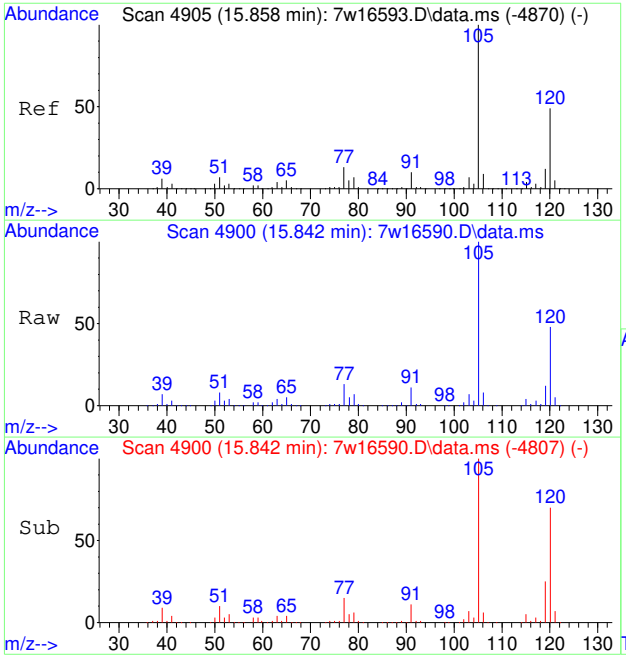


#92
4-ETHYLTOLUENE
Concen: 10.60 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 761814

Ion	Ratio	Lower	Upper
105	100		
120	29.6	21.8	40.4
119	2.3	1.7	3.1

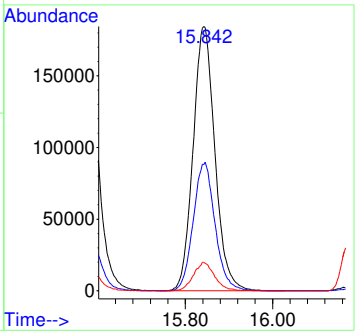


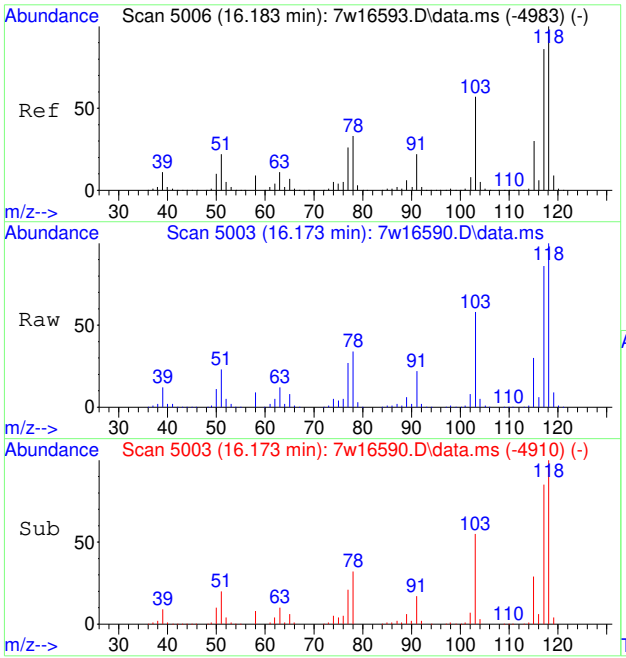


#93
1,3,5-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 641174

Ion	Ratio	Lower	Upper
105	100		
120	48.6	37.2	69.2
91	10.5	7.5	13.9

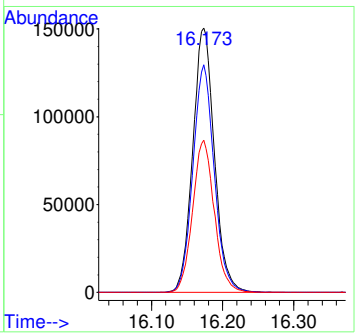


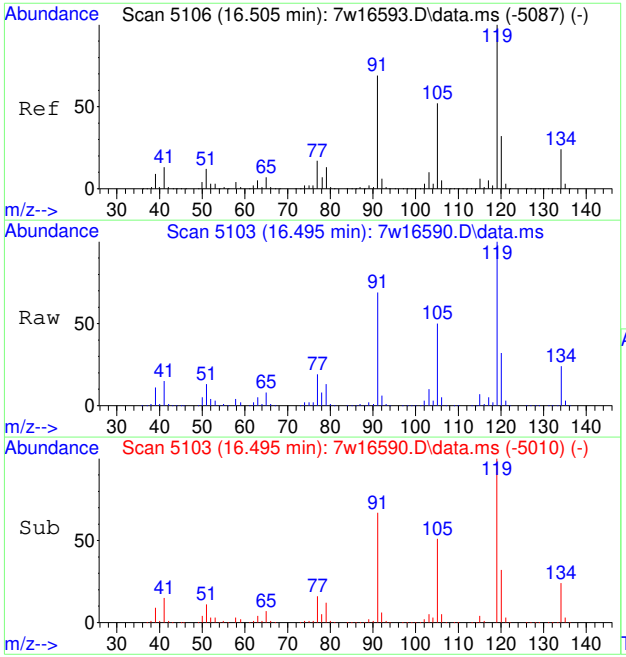


#94
ALPHA-METHYLSTYRENE
Concen: 10.40 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:118 Resp: 317898

Ion	Ratio	Lower	Upper
118	100		
117	85.2	59.9	111.3
103	57.6	36.2	67.2

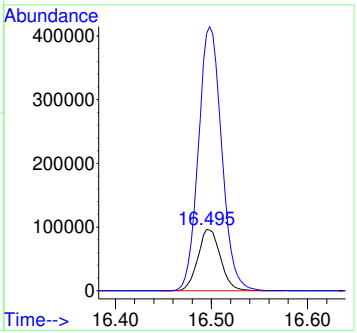


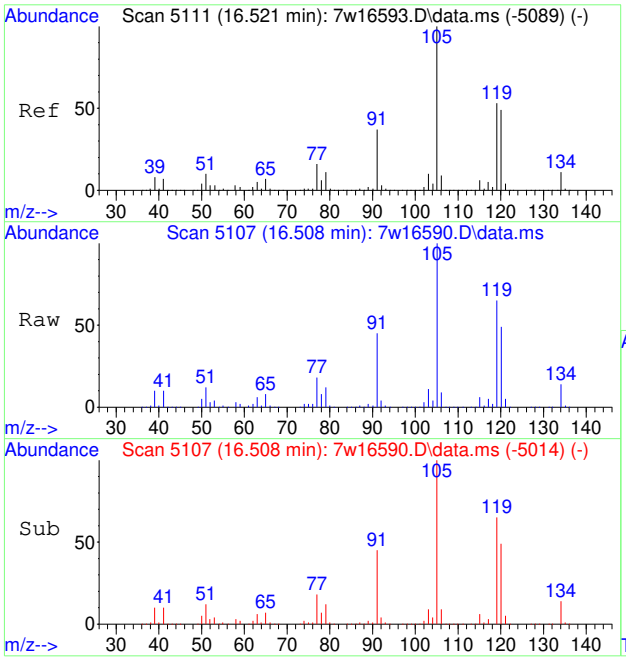


#95
TERT-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 157456

Ion	Ratio	Lower	Upper
134	100		
119	444.7	307.9	571.7

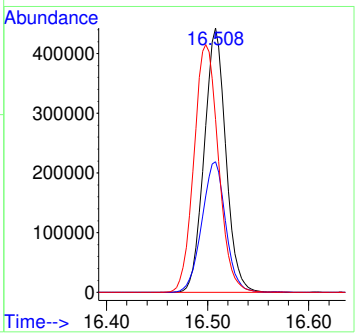


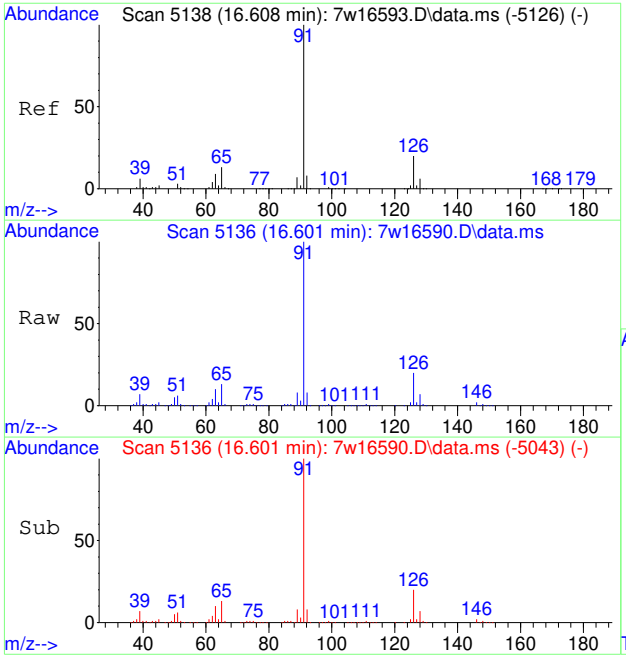


#96
1,2,4-TRIMETHYLBENZENE
Concen: 10.90 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 660136

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	106.1	78.0	144.8

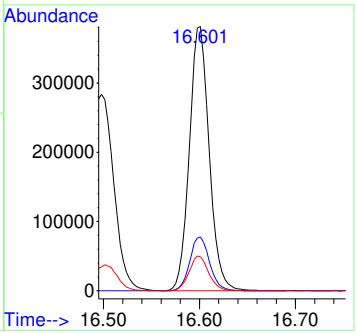


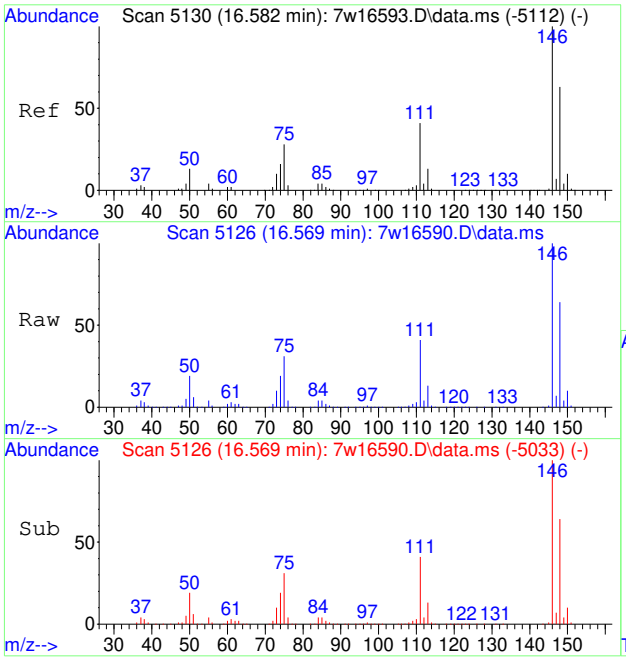


#97
BENZYL CHLORIDE
Concen: 10.50 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 547978

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	13.1	7.3	13.7

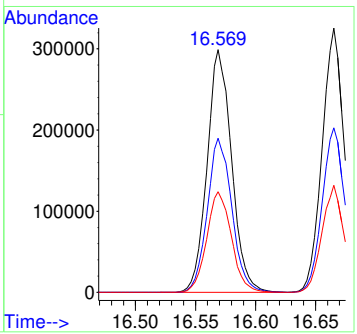


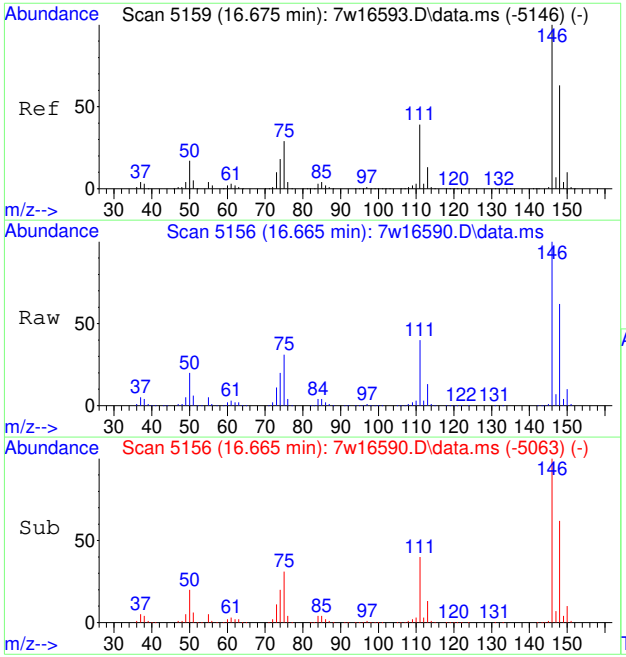


#98
M-DICHLOROBENZENE
Concen: 10.50 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 424825

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.8	25.4	47.2

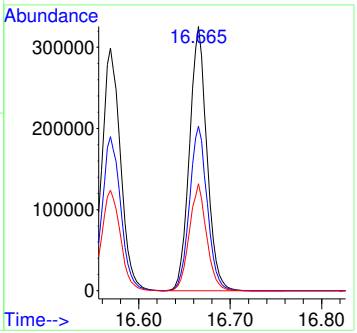


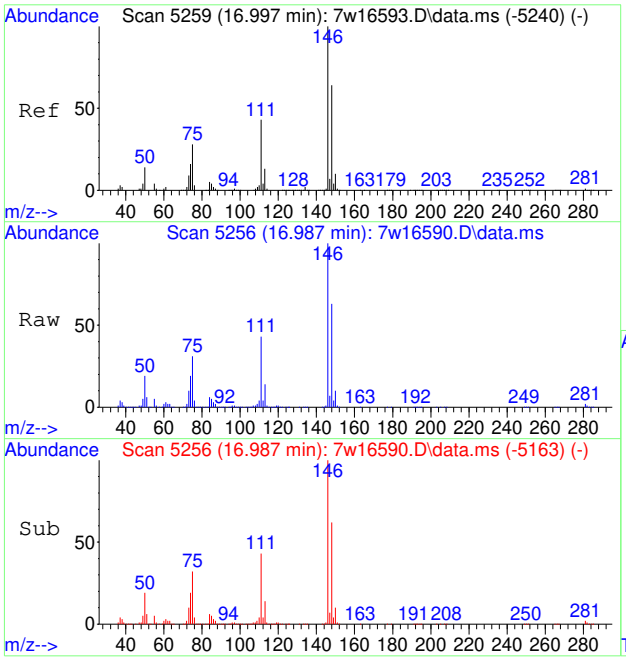


#99
P-DICHLOROBENZENE
Concen: 10.80 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 430477

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	40.0	24.8	46.1

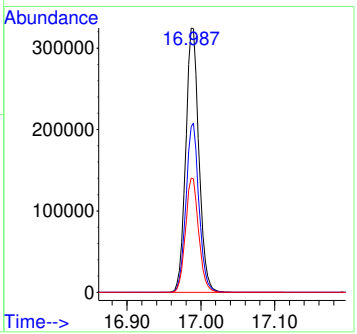


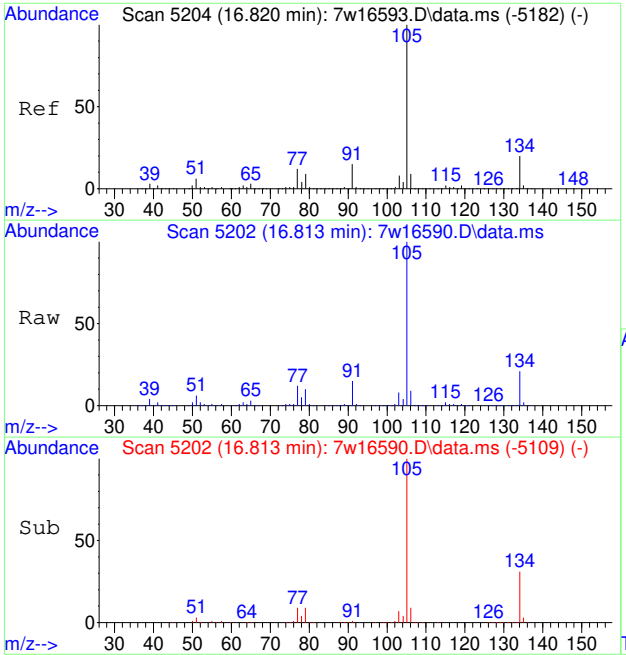


#100
O-DICHLOROBENZENE
Concen: 10.70 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 400770

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.4	26.9	50.1

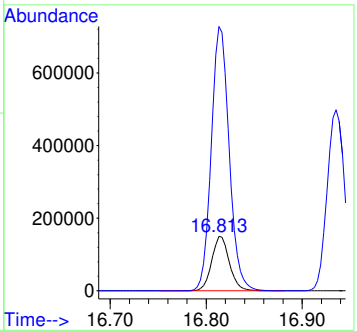


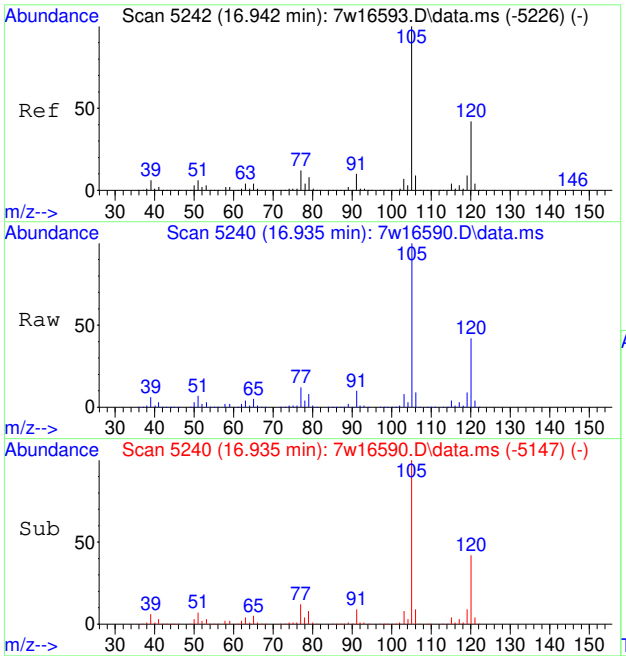


#101
SEC-BUTYLBENZENE
Concen: 11.00 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 191611

Ion	Ratio	Lower	Upper
134	100		
105	492.5	314.4	584.0

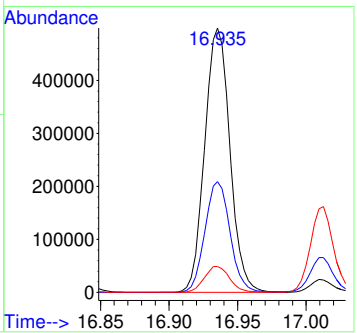


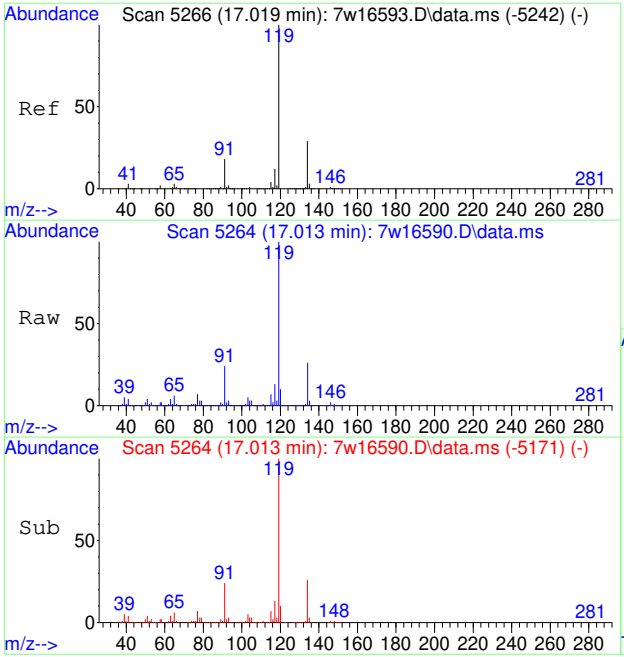


#102
1,2,3-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 636319

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

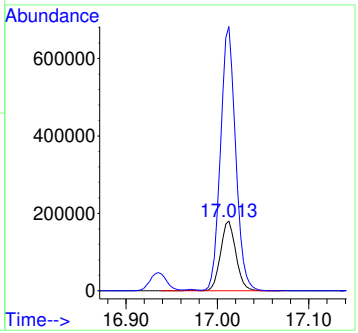


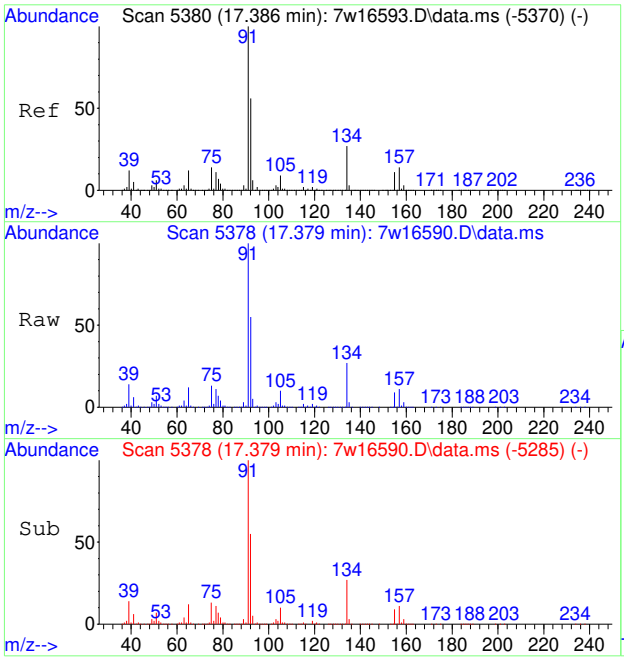


#103
P-ISOPROPYLTOLUENE
Concen: 10.80 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 211524

Ion	Ratio	Lower	Upper
134	100		
119	373.4	253.7	471.3

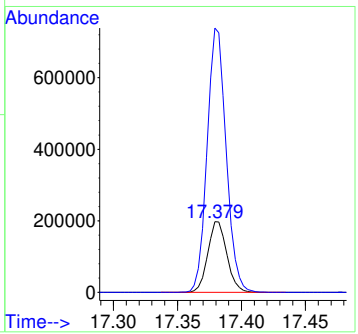


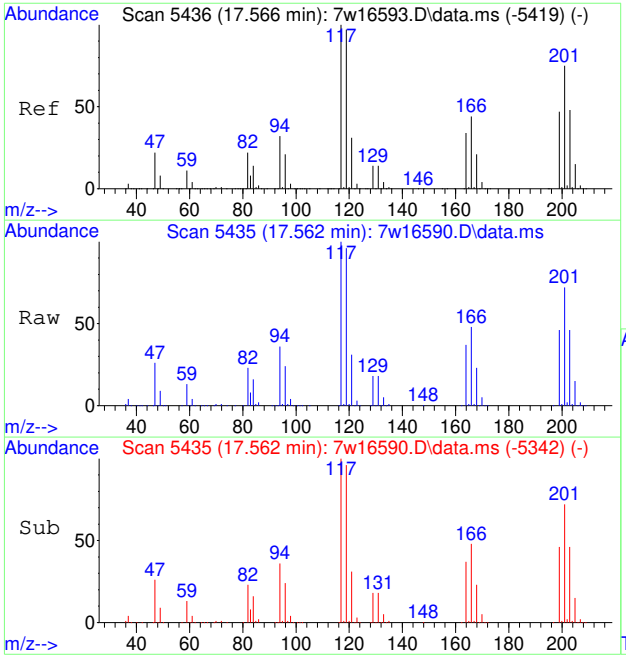


#104
N-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 205284

Ion	Ratio	Lower	Upper
134	100		
91	372.9	231.1	429.1

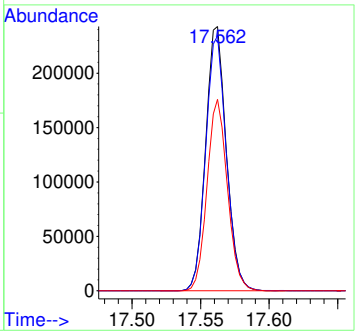


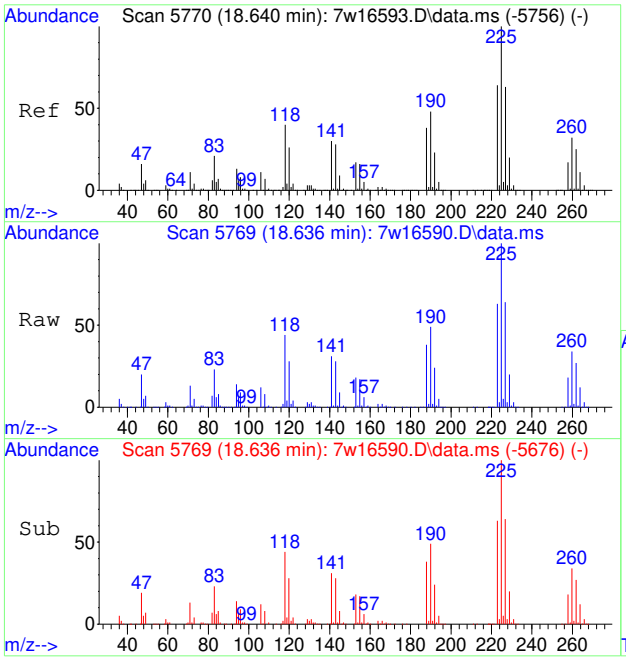


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 254836

Ion	Ratio	Lower	Upper
117	100		
119	96.7	68.3	126.9
201	71.2	45.9	85.3

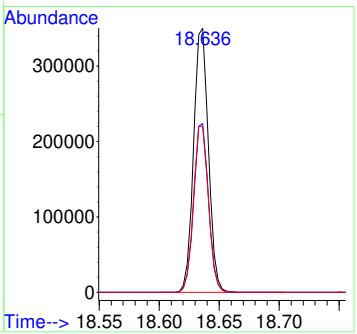


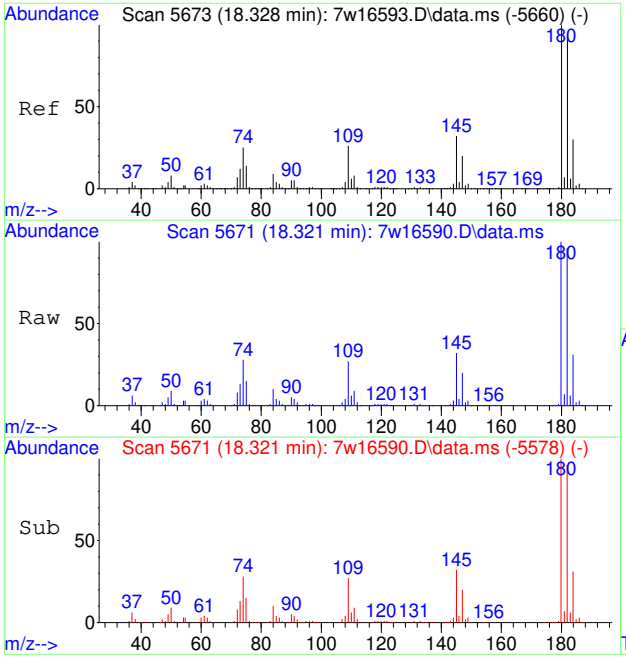


#106
HEXACHLOROBUTADIENE
Concen: 11.70 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:225 Resp: 300683

Ion	Ratio	Lower	Upper
225	100		
227	63.7	44.4	82.5
223	63.7	44.7	83.1

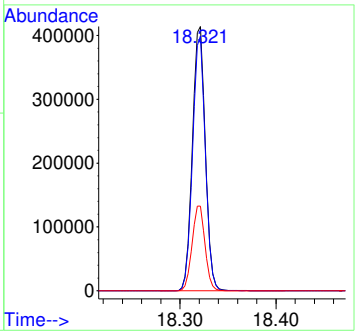


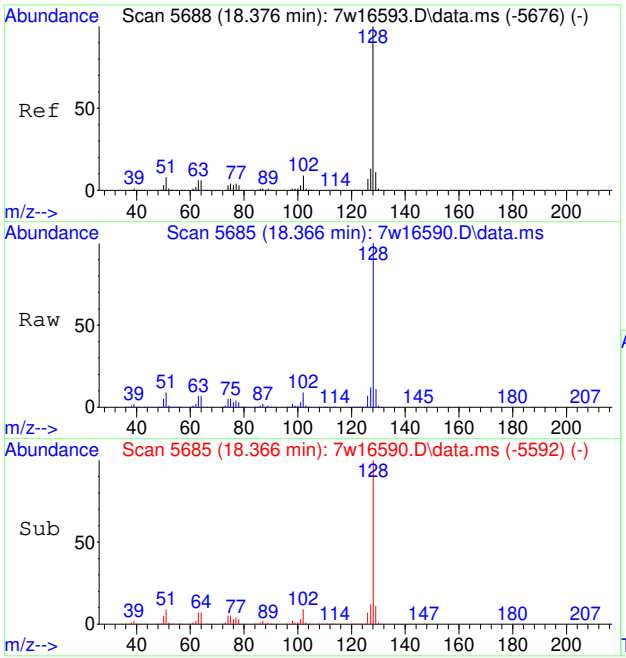


#107
1,2,4-TRICHLOROBENZENE
Concen: 11.70 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:180 Resp: 387303

Ion	Ratio	Lower	Upper
180	100		
182	95.1	66.8	124.0
145	32.2	23.1	42.9

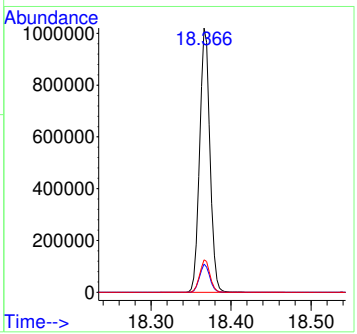


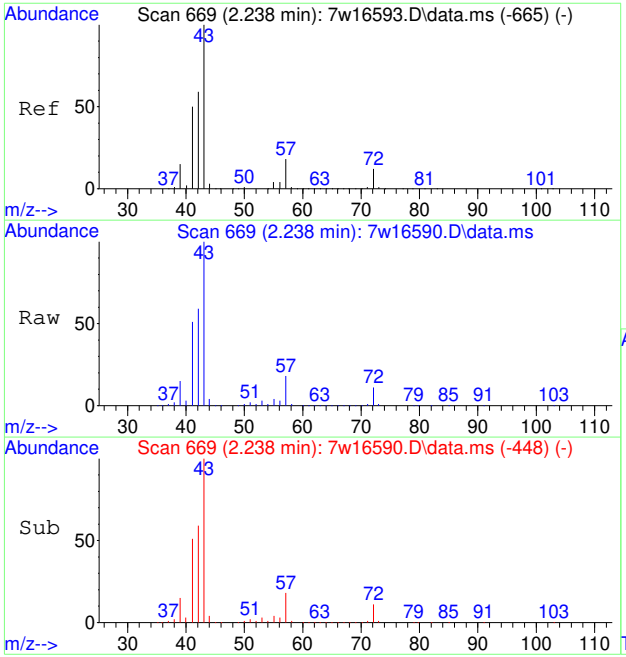


#108
NAPHTHALENE
Concen: 11.80 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:128 Resp: 909462

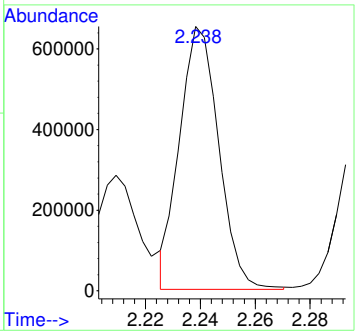
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.3	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 10.59 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:TIC Resp: 646941



7.7.18

7

Manual Integration Approval Summary

Sample Number: V7W577-ICC577
Lab FileID: 7W16590.D
Injection Time: 08/07/25 13:07

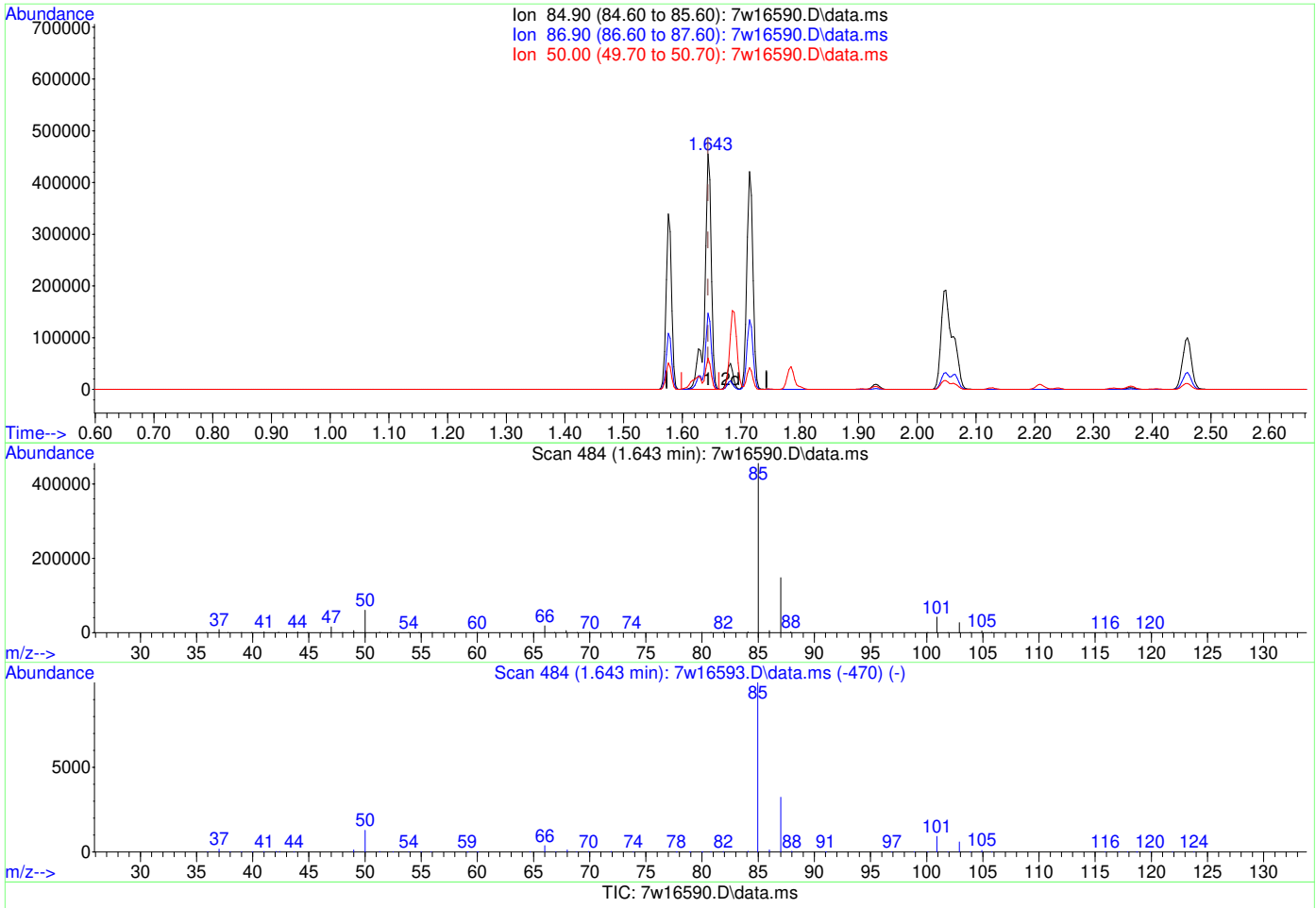
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 10.60PPBV

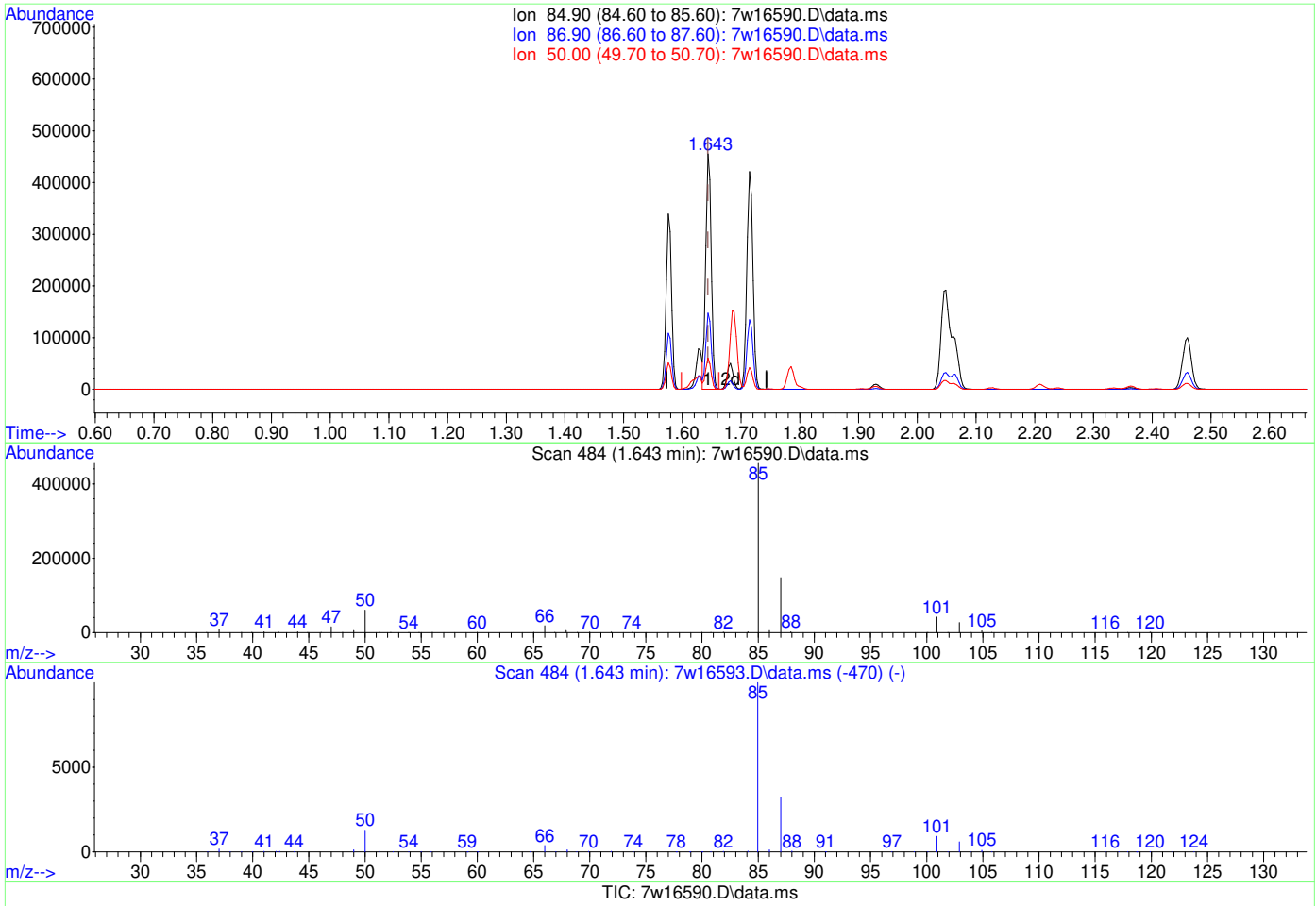
response 350784

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.84
50.00	17.30	19.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 8.88PPBV m

response 294067

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.18
50.00	17.30	23.06#
0.00	0.00	0.00

7W16591.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109480	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	545187	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	503767	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109480	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	408790	9.97	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	249521	17.67	PPBV		90
3) FREON 152A	1.608	65	134083	19.87	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	61032	19.91	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	298756	19.87	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.647	85	530689m	16.21	PPBV		
7) PROPYLENE	1.627	41	171796	19.80	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	483910	19.78	PPBV		99
9) FREON 114	1.717	85	552603	19.29	PPBV		83
10) CHLOROMETHANE	1.688	52	73238	19.85	PPBV		96
11) VINYL CHLORIDE	1.750	62	258206	18.84	PPBV		99
12) 1,3-BUTADIENE	1.785	54	200205	18.85	PPBV	#	74
13) N-BUTANE	1.801	43	354476	19.48	PPBV		97
14) BROMOMETHANE	1.859	94	197085	18.92	PPBV		97
15) CHLOROETHANE	1.907	64	136427	18.81	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	473770	18.30	PPBV		96
17) ACETONITRILE	1.997	41	201387	17.69	PPBV		96
18) ACROLEIN	2.036	56	114846	19.37	PPBV		97
19) FREON 123	2.049	83	521378	19.72	PPBV		96
20) FREON 123A	2.065	117	305527m	19.66	PPBV		
21) TRICHLOROFLUOROMETHANE	2.129	101	556426	18.45	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	474515	18.98	PPBV		89
23) ACETONE	2.071	58	129681	18.71	PPBV		64
24) PENTANE	2.242	42	249050	19.26	PPBV		87
25) IODOMETHANE	2.303	142	541893	19.59	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.328	96	219577	19.61	PPBV	#	60
27) CARBON DISULFIDE	2.463	76	631688	19.43	PPBV		92
28) ETHANOL	1.933	45	114301	17.84	PPBV		97
29) BROMOETHENE	2.007	106	202351	18.58	PPBV		95
30) ACRYLONITRILE	2.213	52	187985	19.57	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	196005	18.45	PPBV	#	78
32) 3-CHLOROPROPENE	2.409	76	114925	18.95	PPBV		73
33) FREON 113	2.460	151	337394	19.33	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.688	96	231431	18.75	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.338	59	526848	17.25	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	677061	19.29	PPBV		97
37) TETRAHYDROFURAN	3.467	72	104573	17.84	PPBV		81
38) HEXANE	3.241	57	453219	19.51	PPBV		80
39) VINYL ACETATE	2.827	86	66441	19.48	PPBV		74
40) 1,1-DICHLOROETHANE	2.759	63	455143	18.70	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	120276	19.21	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.116	96	246893	19.20	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	130636	19.57	PPBV		91
44) ETHYL ACETATE	3.248	61	93045	19.72	PPBV		55
45) METHYL ACRYLATE	3.235	55	561273	19.52	PPBV	#	98
46) CHLOROFORM	3.264	83	484502	19.05	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	525364	19.82	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.823	97	508992	19.19	PPBV		95
49) CARBON TETRACHLORIDE	4.238	117	536446	18.95	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	375248	18.79	PPBV		97
51)	BENZENE	4.129	78	718150	19.31	PPBV		91
53)	CYCLOHEXANE	4.331	84	325475	19.45	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.585	71	167011	19.60	PPBV		67
55)	TRICHLOROETHENE	5.013	95	327435	18.36	PPBV		86
56)	1,2-DICHLOROPROPANE	4.785	63	302257	19.23	PPBV		92
57)	DIBROMOMETHANE	4.746	174	277930	19.08	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	703238	19.73	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.962	83	549357	18.61	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	1404688	18.90	PPBV	#	96
61)	1,4-DIOXANE	5.023	88	159487	18.11	PPBV	#	80
62)	HEPTANE	5.418	43	476905	19.19	PPBV		91
63)	METHYL METHACRYLATE	5.319	69	276982	19.41	PPBV		90
64)	METHYL ISOBUTYL KETONE	6.039	58	278396	19.00	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	474515	19.04	PPBV		96
66)	TOLUENE	7.132	91	898243	19.86	PPBV		98
67)	1,3-DICHLOROPROPANE	7.193	76	463972	19.84	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	425650	18.27	PPBV		95
69)	1,1,2-TRICHLOROETHANE	6.769	83	262141	19.57	PPBV		96
70)	2-HEXANONE	7.695	58	374273	19.43	PPBV	#	78
71)	ETHYL METHACRYLATE	7.833	69	477947	19.46	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	335304	20.14	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.663	129	551638	19.81	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	487978	20.42	PPBV		99
75)	OCTANE	8.997	43	676810	19.89	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	402558	20.28	PPBV		93
78)	CHLOROBENZENE	10.045	112	735731	20.26	PPBV		90
79)	ETHYLBENZENE	10.926	91	1222868	20.44	PPBV		98
80)	M,P-XYLENE	11.354	91	1892381	39.40	PPBV		98
81)	O-XYLENE	12.286	91	959093	20.37	PPBV		96
82)	STYRENE	12.071	104	744213	20.29	PPBV		94
83)	NONANE	13.405	43	723418	20.03	PPBV		83
84)	BROMOFORM	11.161	173	487585	20.35	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	696701	20.31	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.579	75	544148	20.17	PPBV		100
88)	ISOPROPYLBENZENE	13.794	120	360209	19.98	PPBV		88
89)	BROMOBENZENE	13.659	77	684288	20.06	PPBV		76
90)	2-CHLOROTOLUENE	14.788	126	331208	19.42	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	382520	19.58	PPBV		97
92)	4-ETHYLTOLUENE	15.575	105	1412222	19.94	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.849	105	1177558	19.94	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.177	118	587843	19.51	PPBV		97
95)	TERT-BUTYLBENZENE	16.501	134	284215	19.96	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	1206100	20.20	PPBV		94
97)	BENZYL CHLORIDE	16.601	91	1043995	20.31	PPBV		92
98)	M-DICHLOROBENZENE	16.572	146	777553	19.50	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	788870	20.08	PPBV		97
100)	O-DICHLOROBENZENE	16.990	146	731265	19.81	PPBV		97
101)	SEC-BUTYLBENZENE	16.817	134	351357	20.47	PPBV		84
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	1159850	19.79	PPBV		96
103)	P-ISOPROPYLTOLUENE	17.013	134	385467	19.97	PPBV		94
104)	N-BUTYLBENZENE	17.382	134	378596	20.40	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	477608	20.73	PPBV		96
106)	HEXACHLOROBUTADIENE	18.636	225	568005	22.43	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.321	180	737709	22.61	PPBV		100
108)	NAPHTHALENE	18.369	128	1742340	22.94	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	1188767	19.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

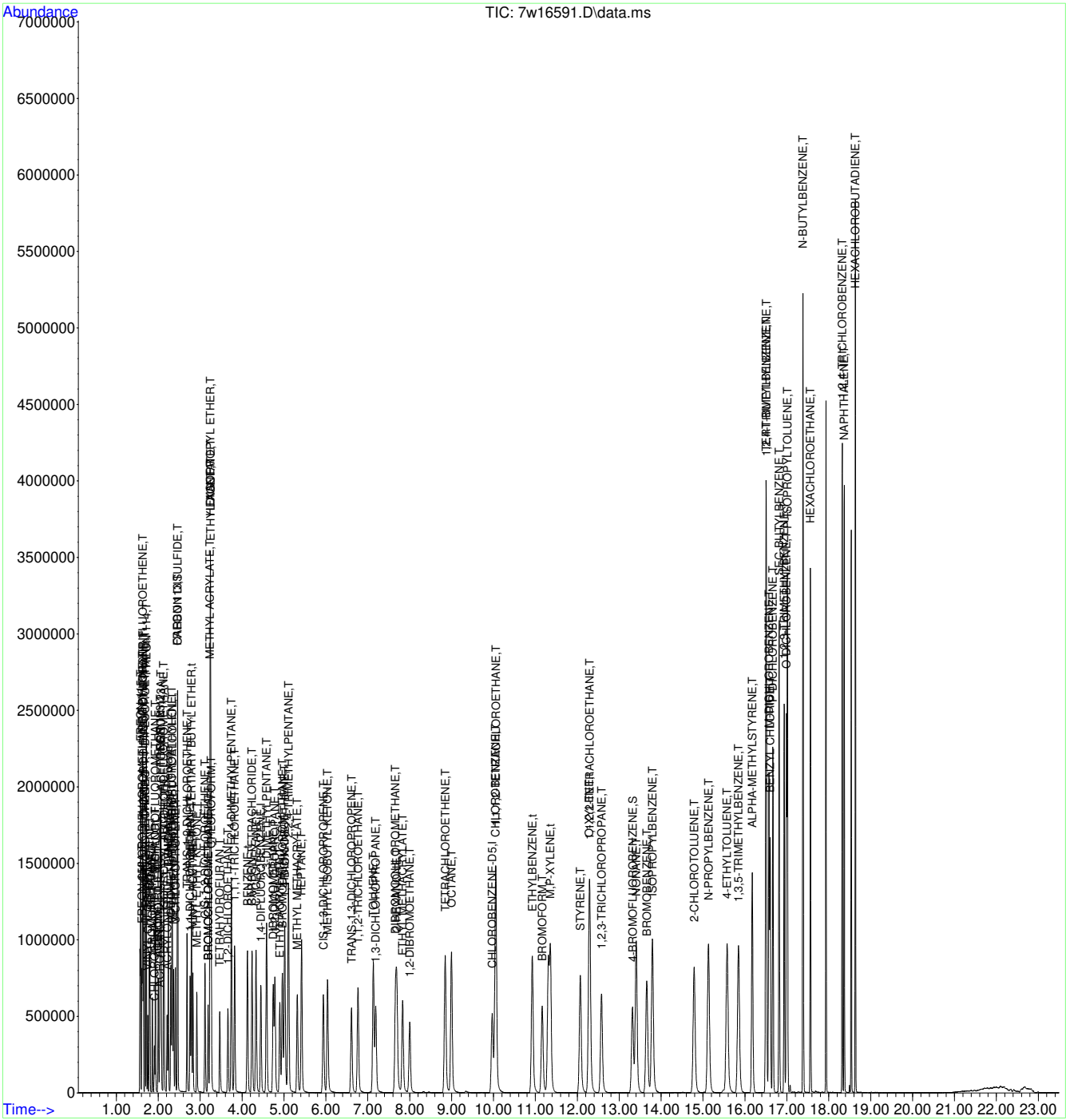
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

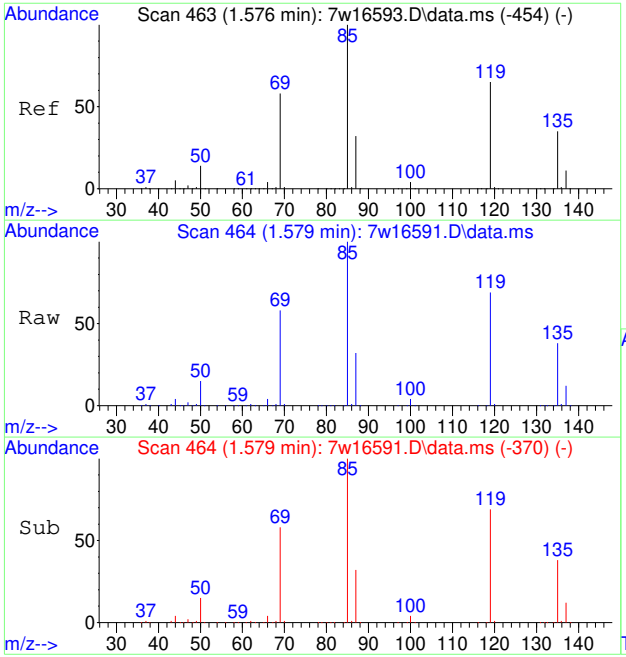
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

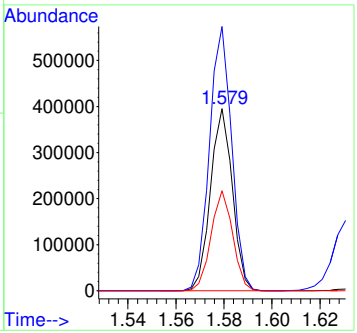


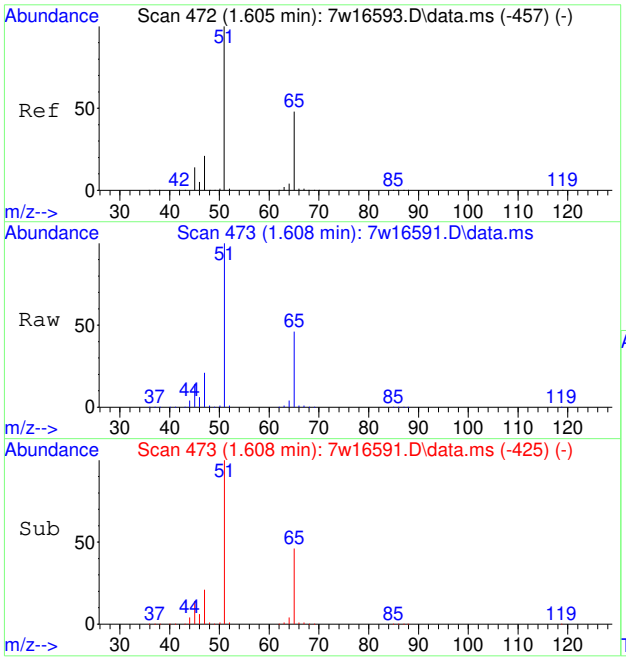


#2
FREON 115
Concen: 17.67 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:119 Resp: 249521

Ion	Ratio	Lower	Upper
119	100		
85	146.7	90.9	168.7
135	54.3	38.2	71.0

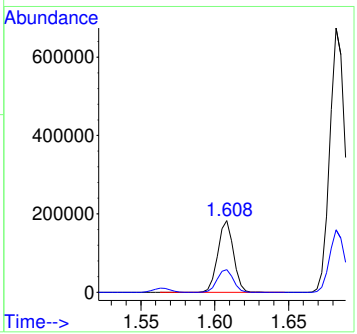


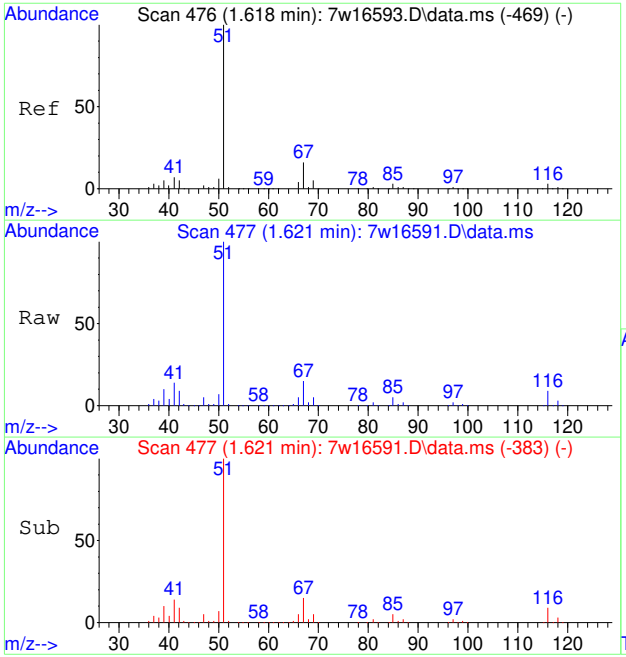


#3
FREON 152A
Concen: 19.87 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 134083

Ion	Ratio	Lower	Upper
65	100		
45	32.5	20.6	38.4

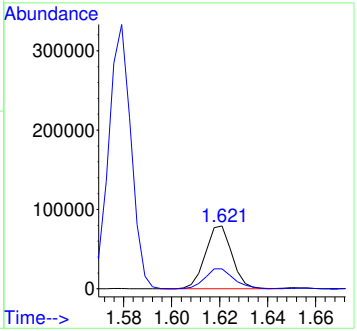


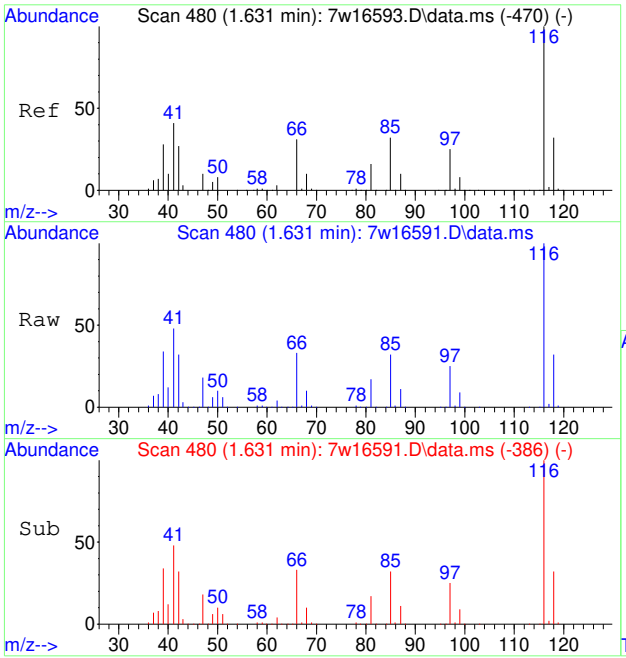


#4
CHLORODIFLUOROMETHANE
Concen: 19.91 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 61032

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

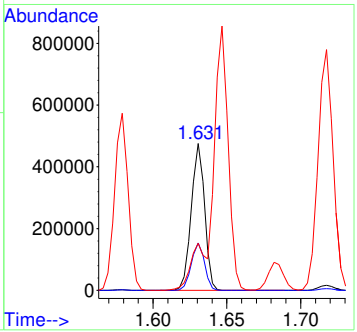


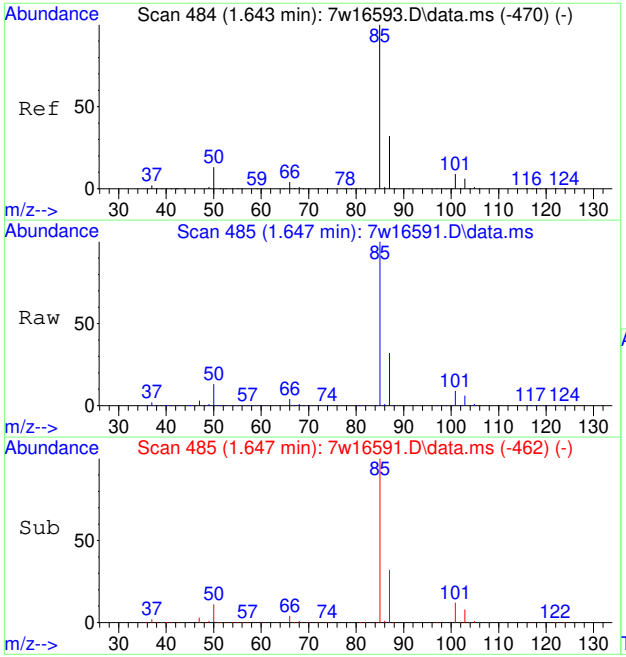


#5
CHLOROTRIFLUOROETHENE
Concen: 19.87 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:116 Resp: 298756

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	216.0	194.7	361.7

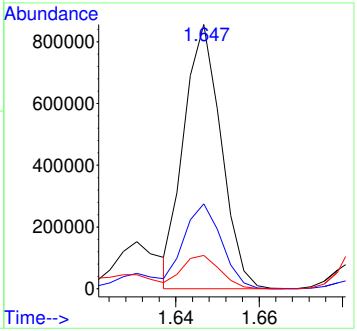


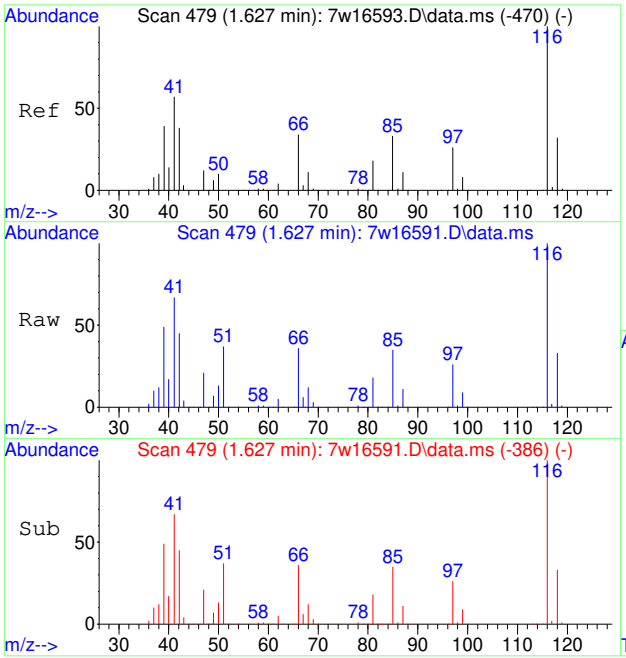


#6
DICHLORODIFLUOROMETHANE
Concen: 16.21 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 530689

Ion	Ratio	Lower	Upper
85	100		
87	39.5	23.1	42.9
50	23.2	12.1	22.5#

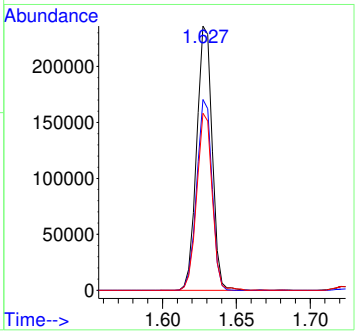


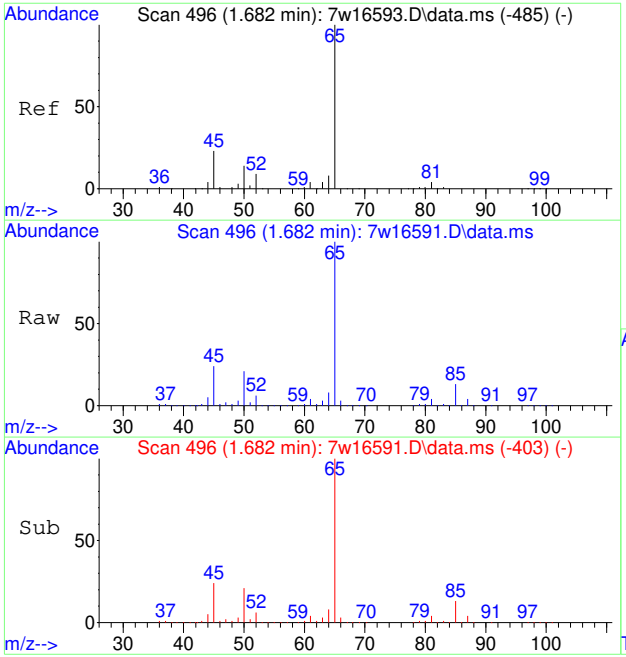


#7
PROPYLENE
Concen: 19.80 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 171796

Ion	Ratio	Lower	Upper
41	100		
39	71.5	51.0	94.8
42	66.7	46.6	86.6

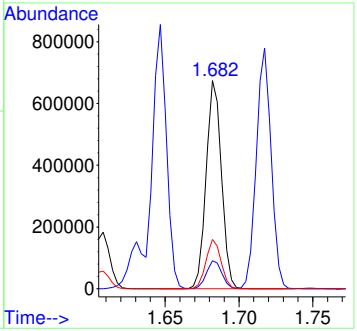


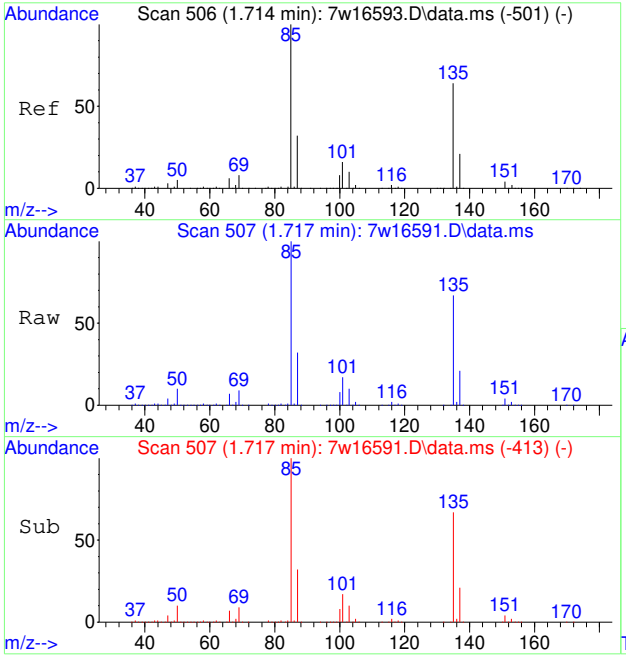


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 19.78 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 483910

Ion	Ratio	Lower	Upper
65	100		
85	13.6	9.7	17.9
45	23.5	17.0	31.6

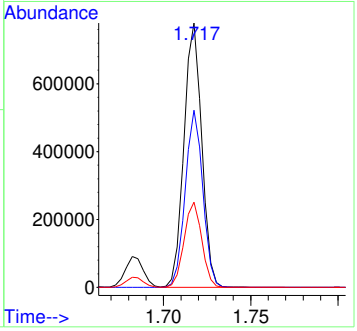


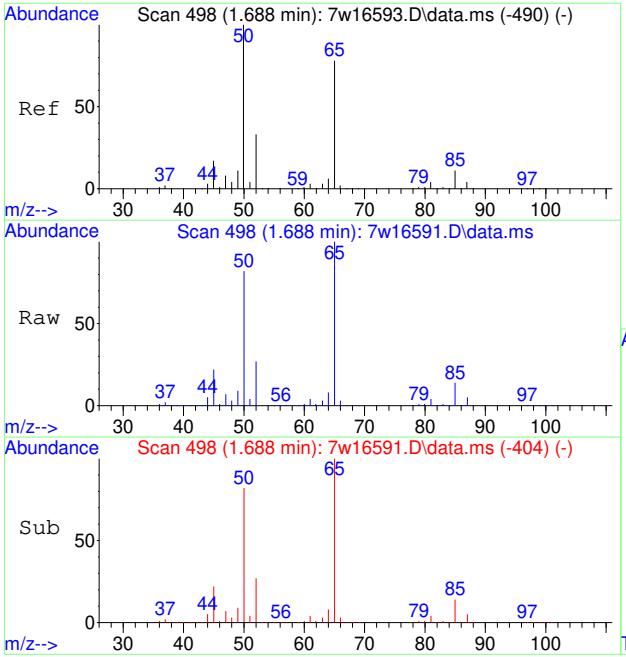


#9
FREON 114
Concen: 19.29 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 552603

Ion	Ratio	Lower	Upper
85	100		
135	66.3	61.3	113.9
87	32.2	23.2	43.0

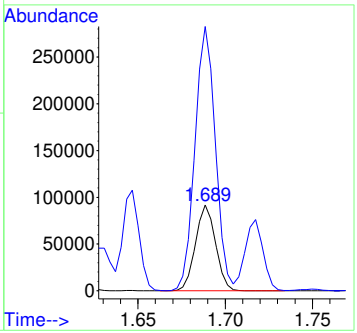


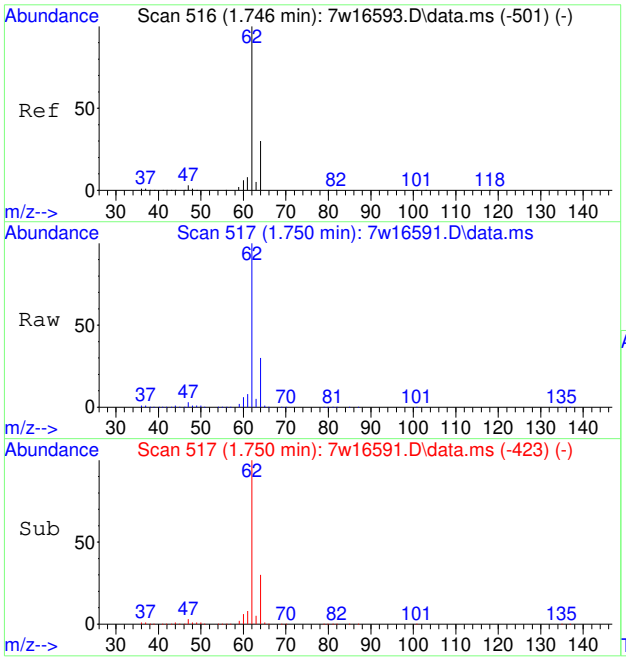


#10
CHLOROMETHANE
Concen: 19.85 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 73238

Ion	Ratio	Lower	Upper
52	100		
50	317.8	227.6	422.6

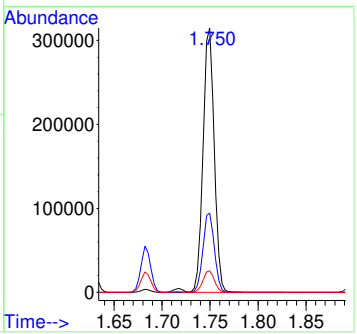


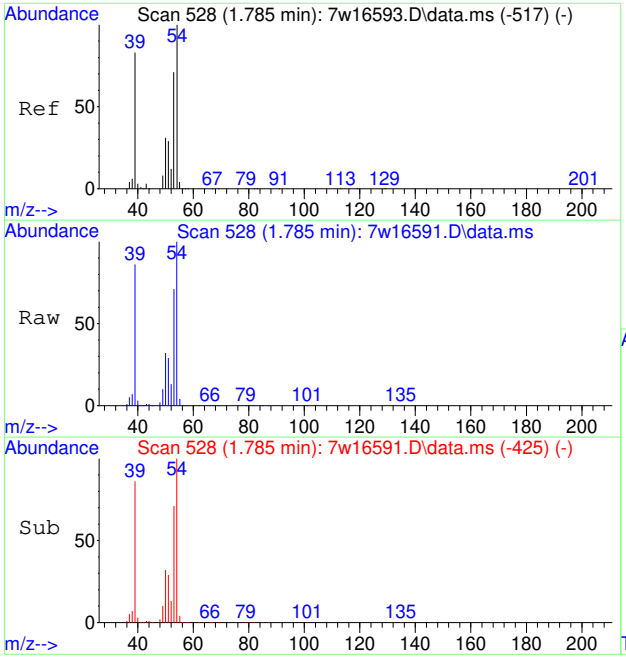


#11
VINYL CHLORIDE
Concen: 18.84 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 258206

Ion	Ratio	Lower	Upper
62	100		
64	30.4	21.6	40.2
61	8.5	5.7	10.7

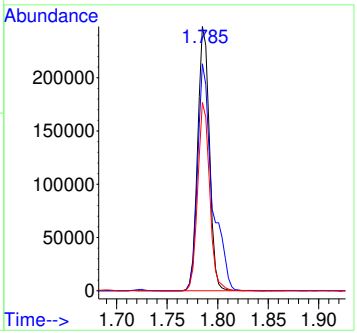


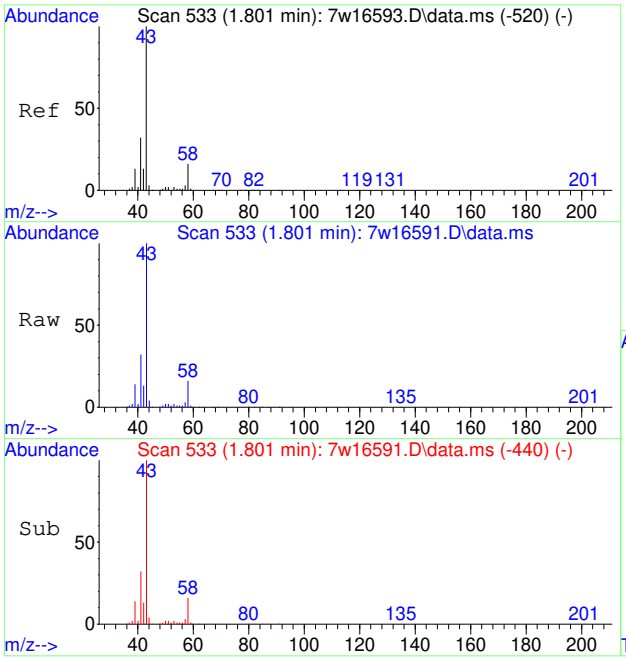


#12
1,3-BUTADIENE
Concen: 18.85 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 54 Resp: 200205

Ion	Ratio	Lower	Upper
54	100		
39	106.9	125.6	185.6#
53	72.3	40.7	100.7

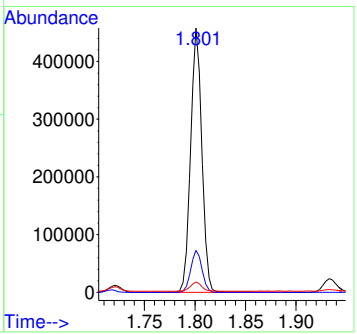


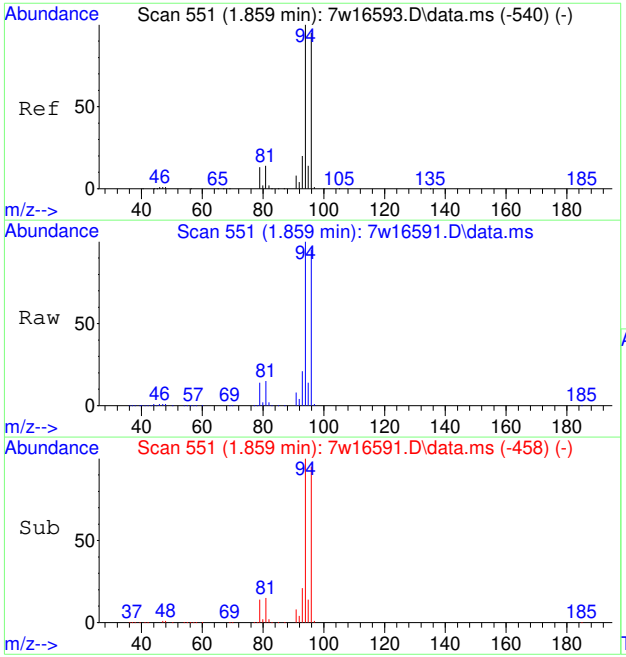


#13
N-BUTANE
Concen: 19.48 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 354476

Ion	Ratio	Lower	Upper
43	100		
58	16.0	10.4	19.4
44	3.6	3.0	5.6

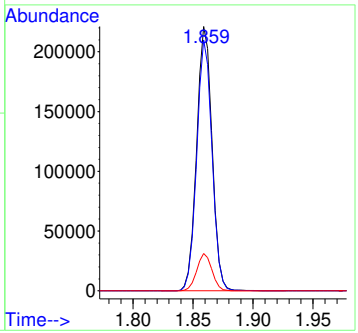


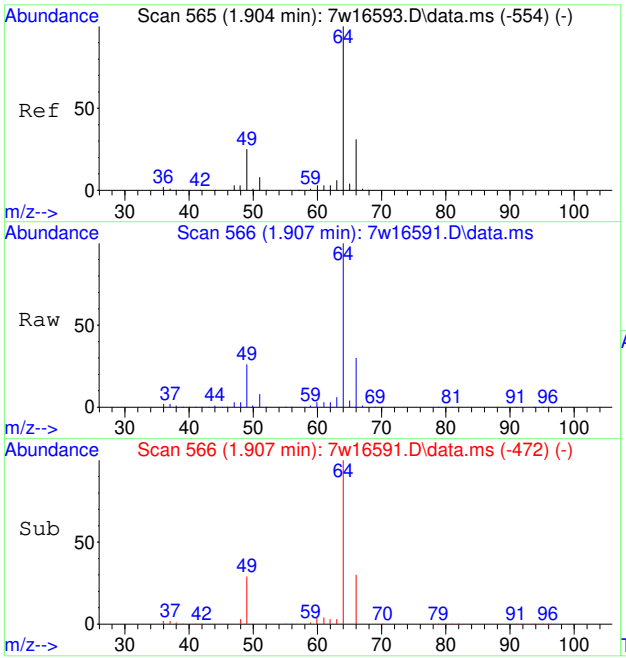


#14
BROMOMETHANE
Concen: 18.92 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 94 Resp: 197085

Ion	Ratio	Lower	Upper
94	100		
96	94.2	63.6	118.0
95	13.9	10.0	18.6

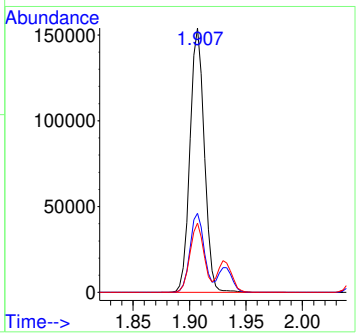


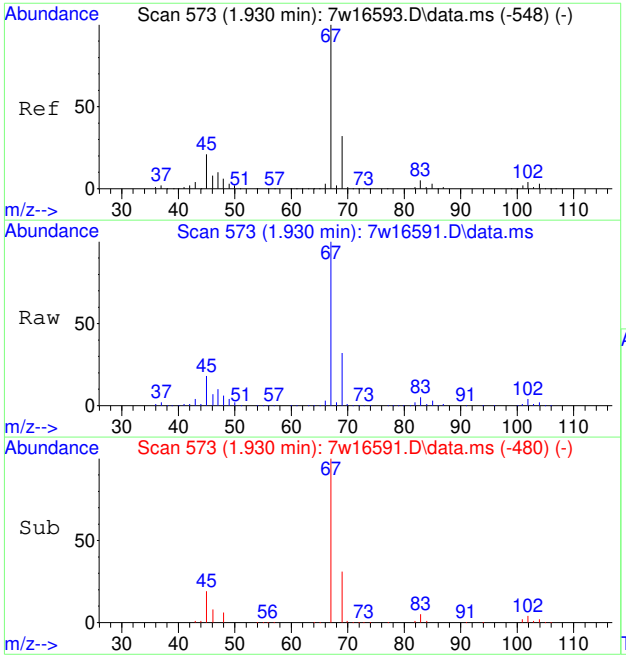


#15
CHLOROETHANE
Concen: 18.81 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 64 Resp: 136427

Ion	Ratio	Lower	Upper
64	100		
66	39.2	23.0	42.6
49	26.0	21.5	39.9

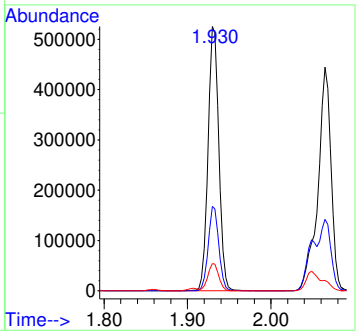


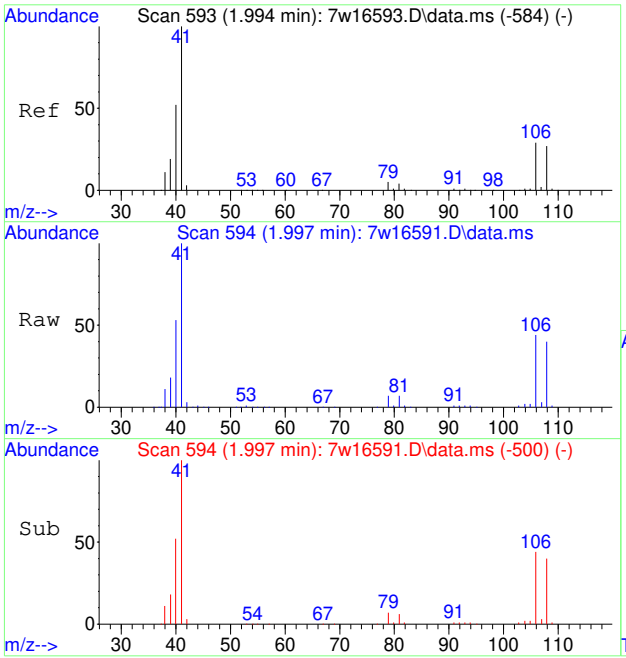


#16
DICHLOROFLUOROMETHANE
Concen: 18.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 473770

Ion	Ratio	Lower	Upper
67	100		
69	31.3	23.2	43.0
47	11.3	9.6	17.8

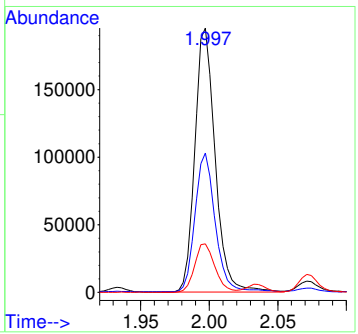


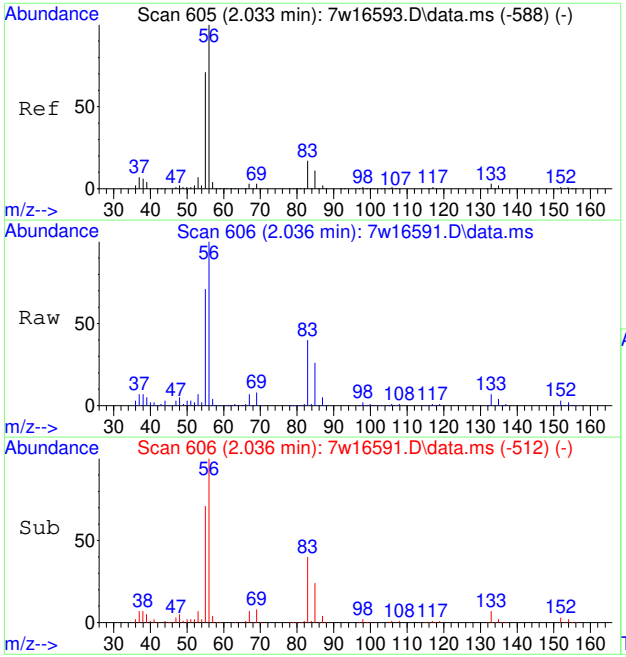


#17
ACETONITRILE
Concen: 17.69 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 201387

Ion	Ratio	Lower	Upper
41	100		
40	52.5	38.4	71.4
39	18.4	14.5	26.9

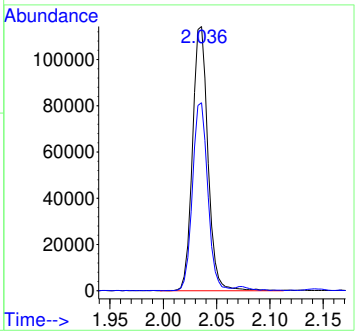


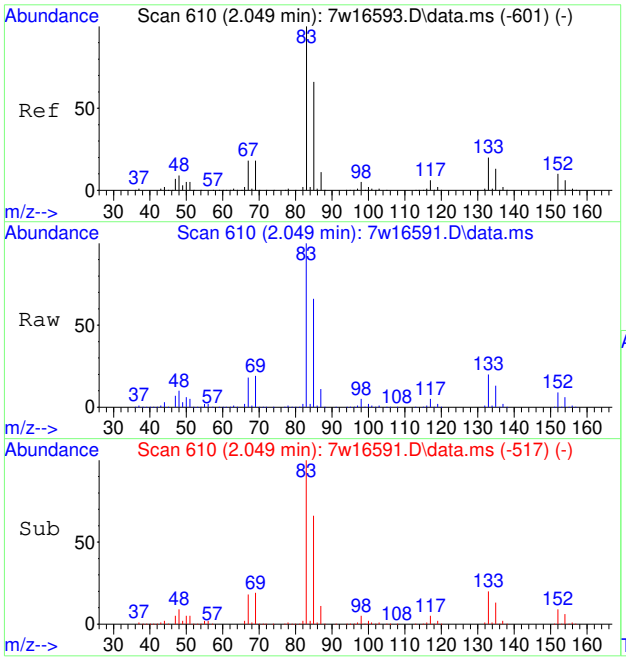


#18
ACROLEIN
Concen: 19.37 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 56 Resp: 114846

Ion	Ratio	Lower	Upper
56	100		
55	70.4	51.2	95.2

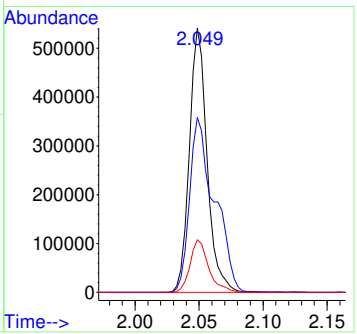


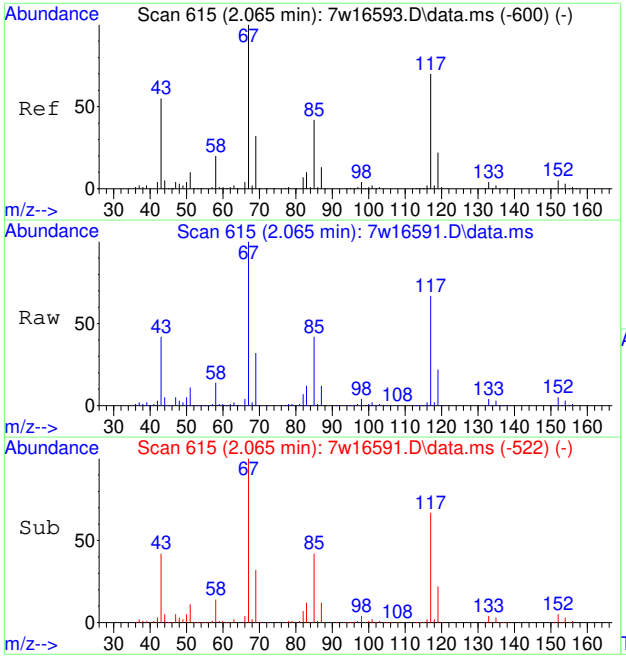


#19
FREON 123
Concen: 19.72 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 521378

Ion	Ratio	Lower	Upper
83	100		
85	92.8	65.7	121.9
133	21.0	19.9	36.9

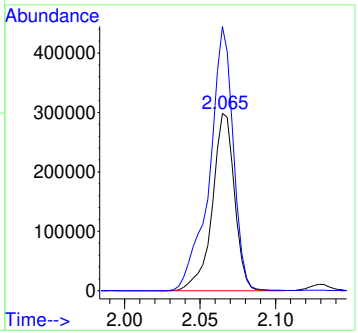


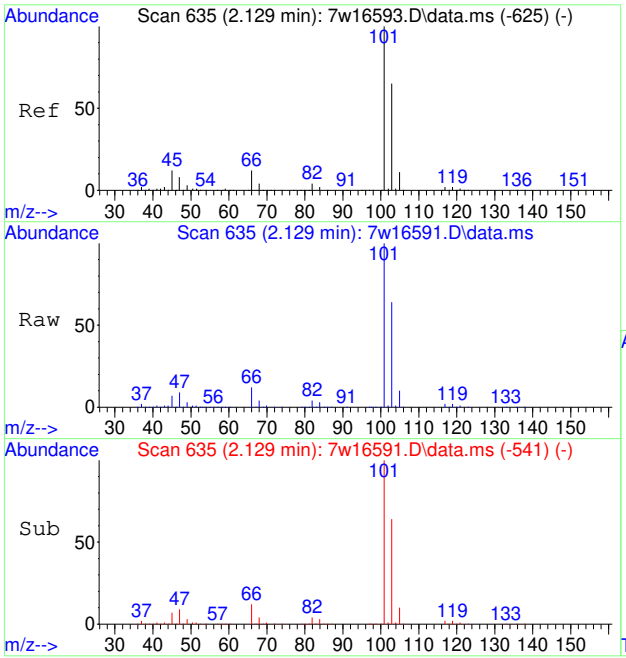


#20
FREON 123A
Concen: 19.66 PPBV m
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 305527

Ion	Ratio	Lower	Upper
117	100		
67	0.0	78.8	146.4#

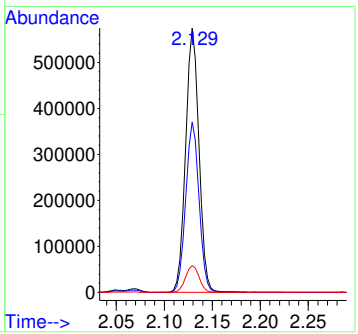


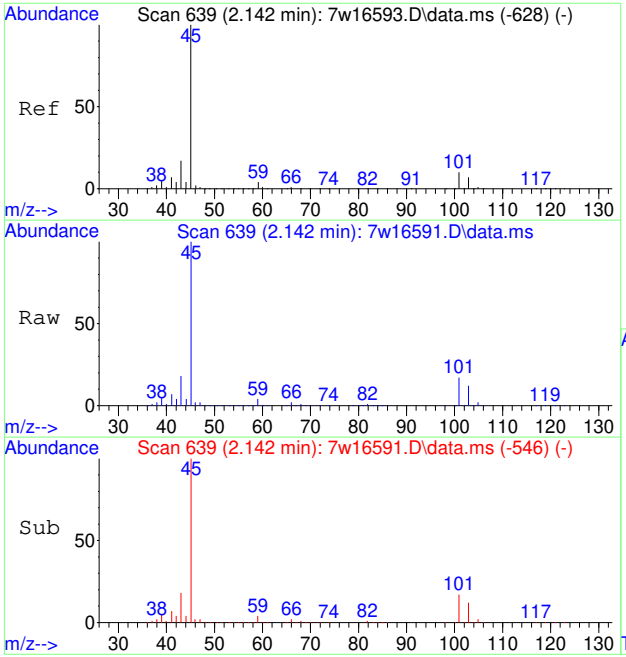


#21
TRICHLOROFLUOROMETHANE
Concen: 18.45 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:101 Resp: 556426

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.3	82.3
105	10.4	7.3	13.7

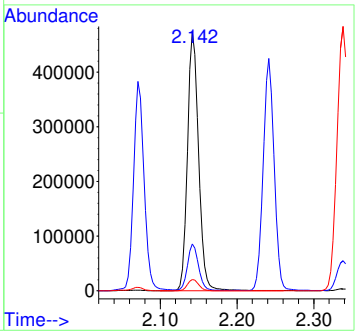


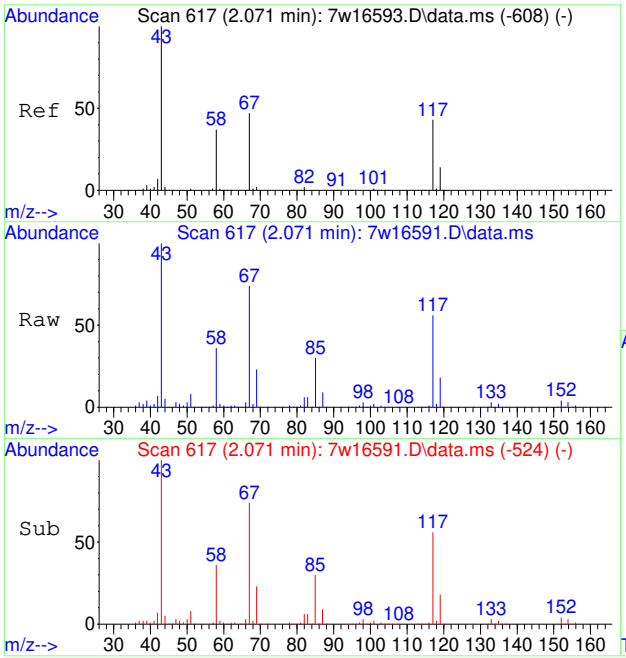


#22
ISOPROPYL ALCOHOL
Concen: 18.98 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 474515

Ion	Ratio	Lower	Upper
45	100		
43	18.1	17.1	31.9
59	4.5	3.1	5.8

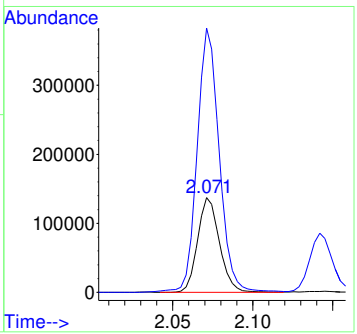


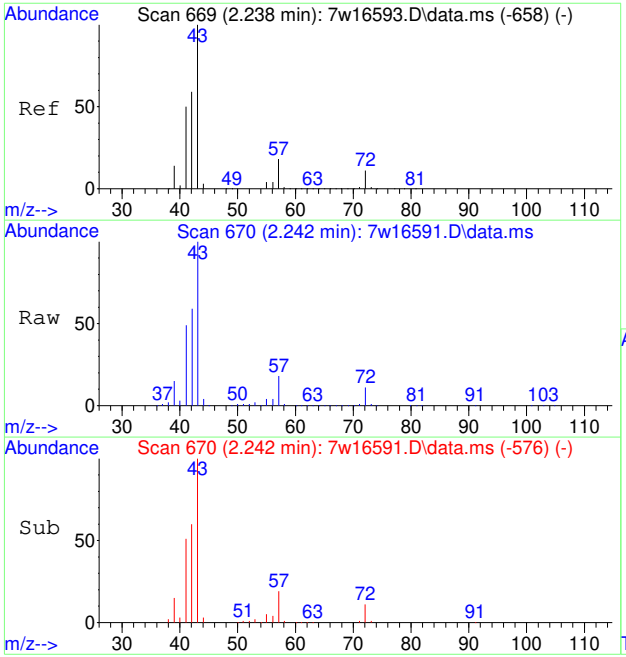


#23
ACETONE
Concen: 18.71 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 129681

Ion	Ratio	Lower	Upper
58	100		
43	282.9	254.0	471.6

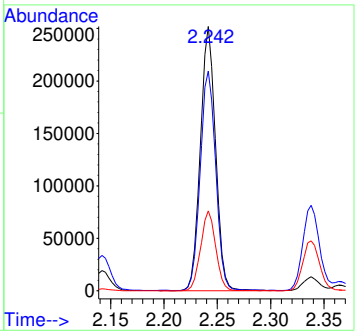


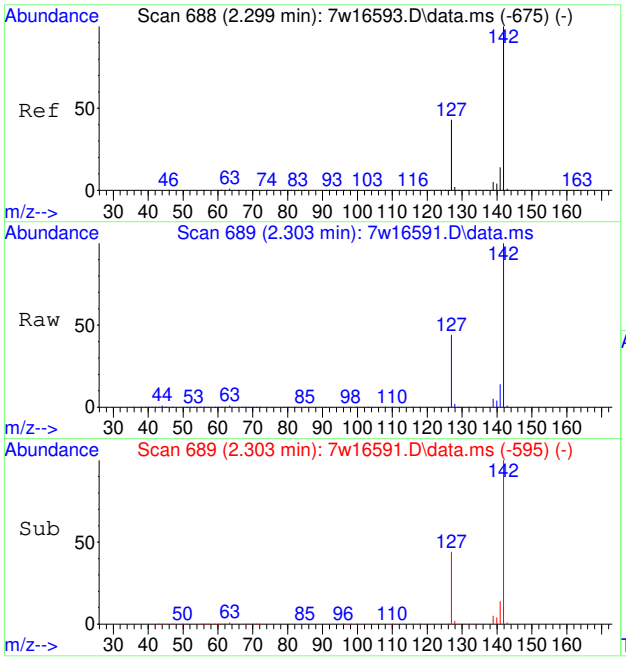


#24
PENTANE
Concen: 19.26 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 42 Resp: 249050

Ion	Ratio	Lower	Upper
42	100		
41	84.6	69.2	128.6
57	30.3	18.6	34.6

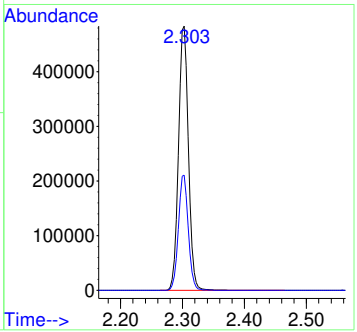


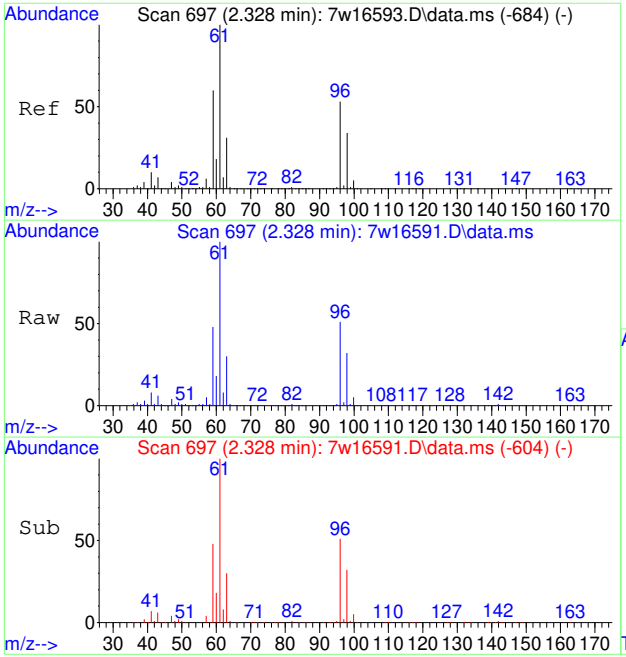


#25
IODOMETHANE
Concen: 19.59 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:142 Resp: 541893

Ion	Ratio	Lower	Upper
142	100		
127	43.5	32.1	59.7

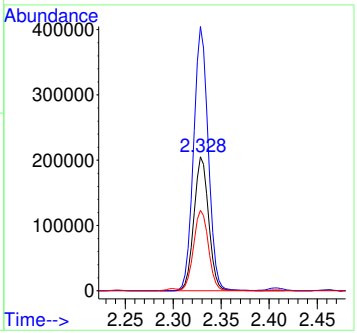


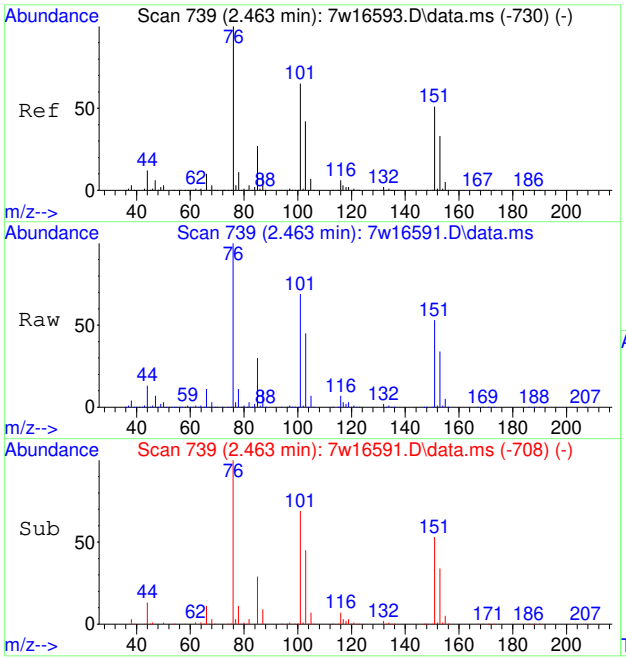


#26
1,1-DICHLOROETHYLENE
Concen: 19.61 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 219577

Ion	Ratio	Lower	Upper
96	100		
61	196.0	98.3	182.5#
63	62.1	33.2	61.7#

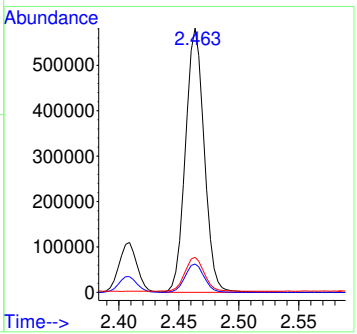


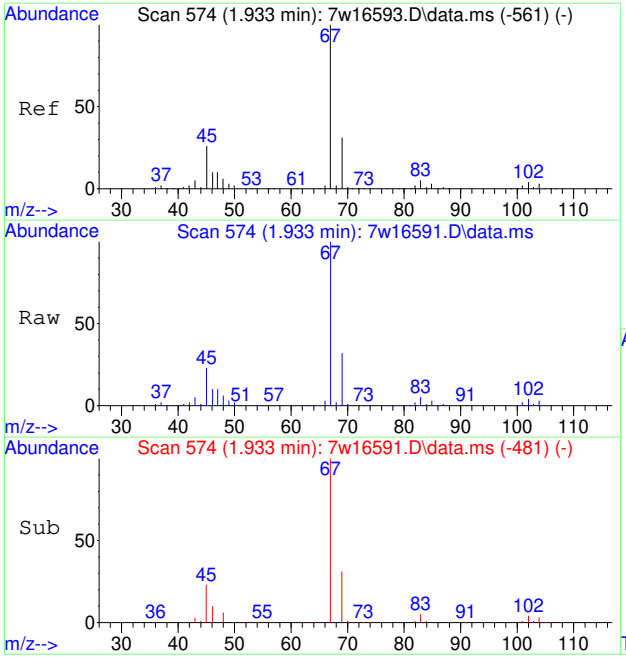


#27
CARBON DISULFIDE
Concen: 19.43 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 631688

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	13.5	13.0	24.1

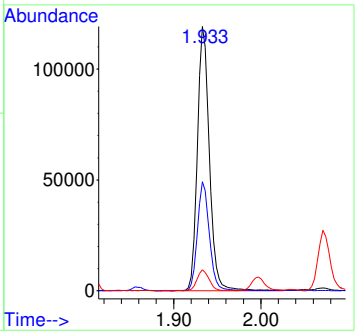


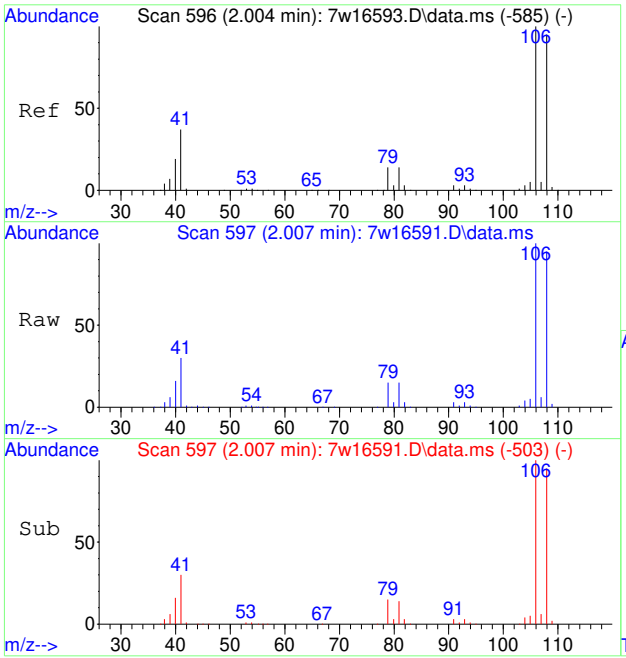


#28
ETHANOL
Concen: 17.84 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 114301

Ion	Ratio	Lower	Upper
45	100		
46	41.1	29.7	55.1
42	7.9	7.3	13.5

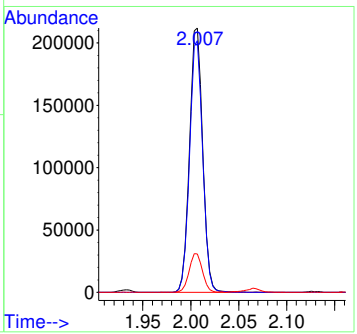


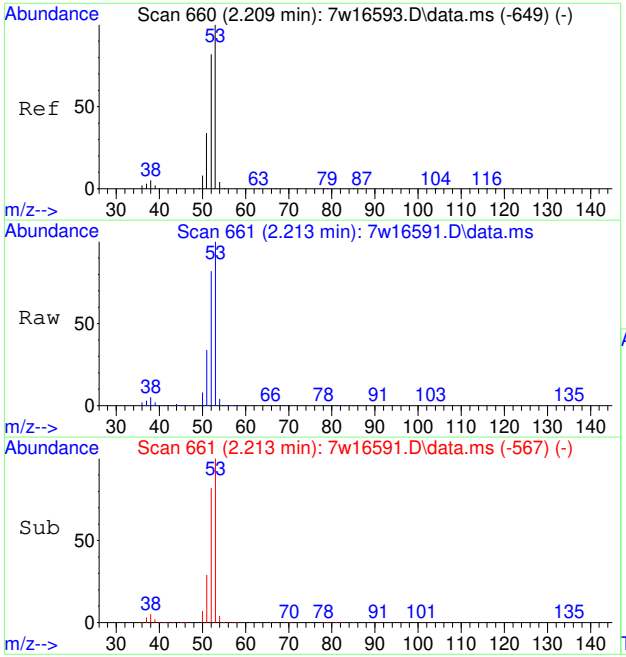


#29
BROMOETHENE
Concen: 18.58 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:106 Resp: 202351

Ion	Ratio	Lower	Upper
106	100		
108	94.8	68.3	126.8
81	15.0	14.7	27.3

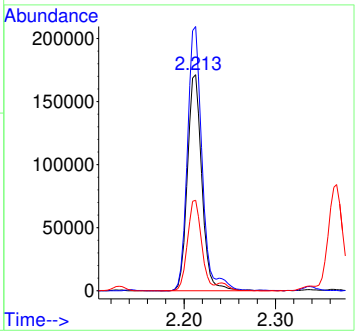


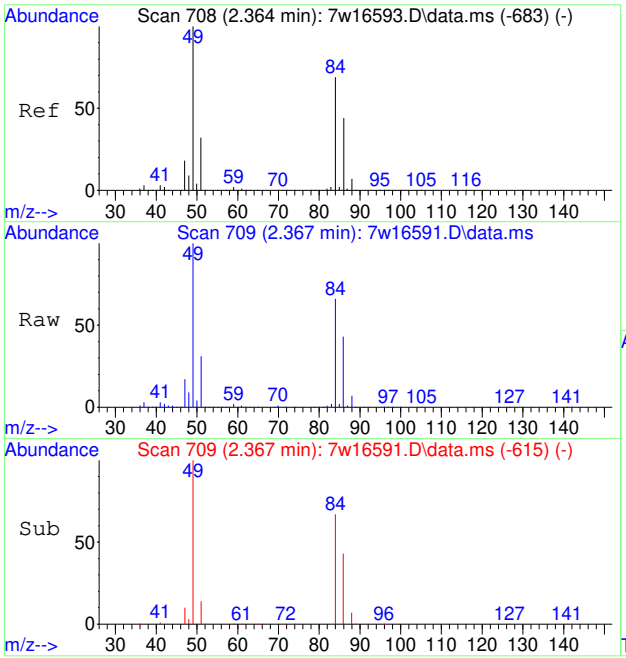


#30
ACRYLONITRILE
Concen: 19.57 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 187985

Ion	Ratio	Lower	Upper
52	100		
53	124.7	86.3	160.3
51	44.3	33.6	62.4

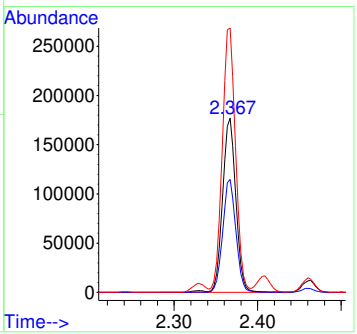


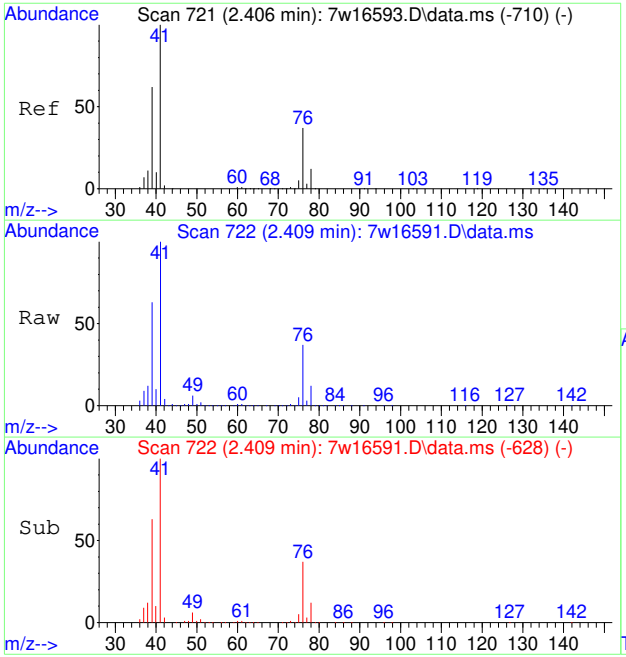


#31
METHYLENE CHLORIDE
Concen: 18.45 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 196005

Ion	Ratio	Lower	Upper
84	100		
86	64.3	44.9	83.5
49	151.2	79.7	148.1#

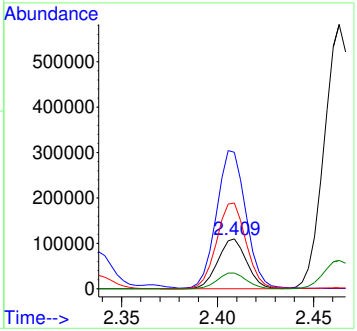


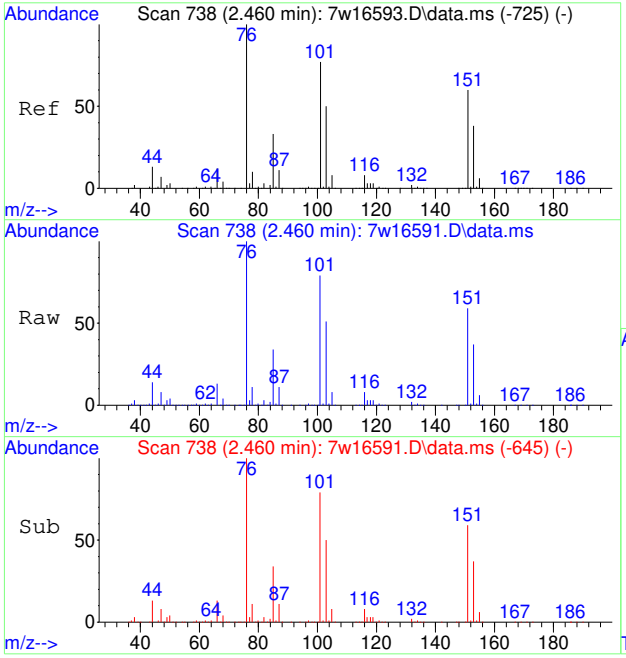


#32
3-CHLOROPROPENE
Concen: 18.95 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 114925

Ion	Ratio	Lower	Upper
76	100		
41	283.8	160.9	298.9
39	176.4	150.7	279.9
78	32.4	22.7	42.1

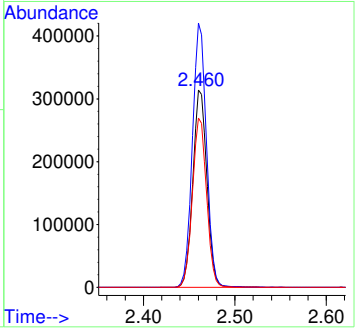


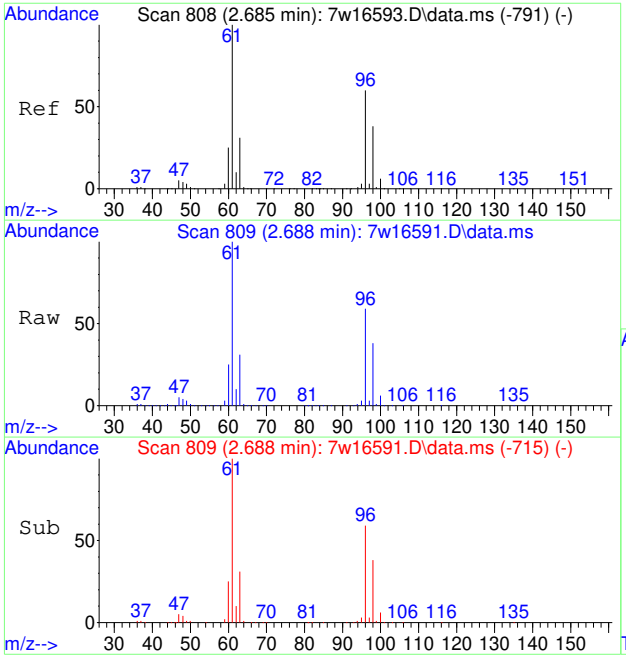


#33
FREON 113
Concen: 19.33 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:151 Resp: 337394

Ion	Ratio	Lower	Upper
151	100		
101	133.1	81.1	150.7
103	86.2	51.4	95.4

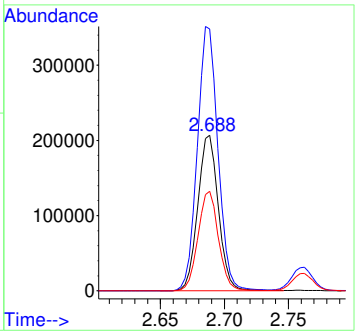


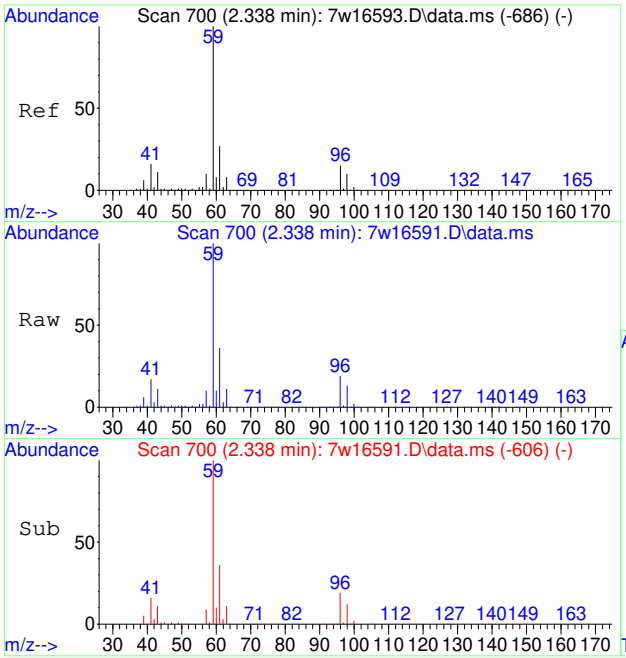


#34
TRANS-1,2-DICHLOROETHENE
Concen: 18.75 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 231431

Ion	Ratio	Lower	Upper
96	100		
61	170.1	78.5	145.9#
98	63.6	46.5	86.3

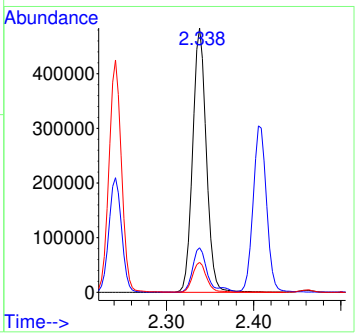


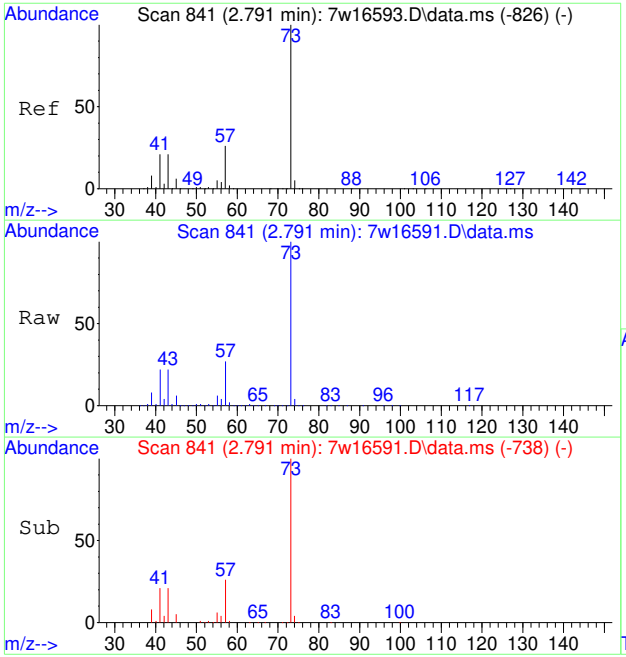


#35
TERTIARY BUTYL ALCOHOL
Concen: 17.25 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 526848

Ion	Ratio	Lower	Upper
59	100		
41	18.2	15.3	28.5
43	11.7	12.3	22.9#

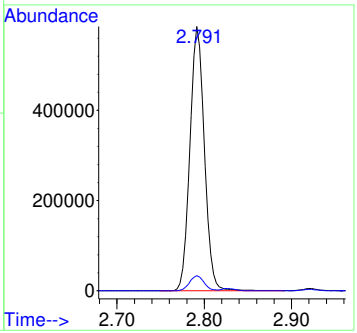


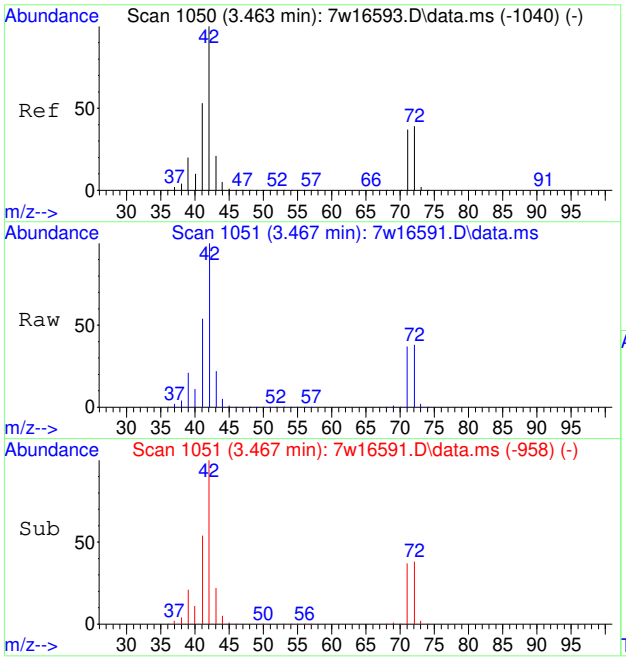


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.29 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 73 Resp: 677061

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

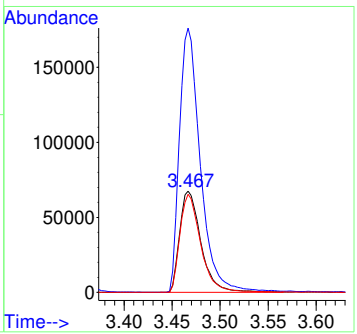


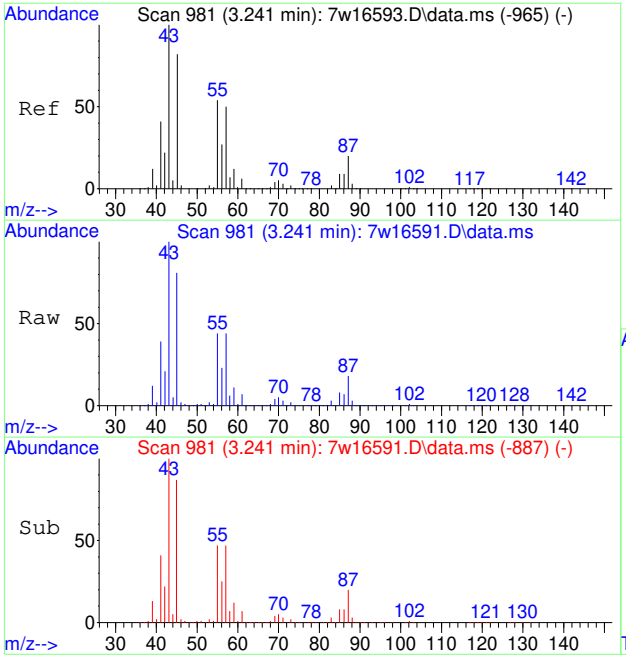


#37
TETRAHYDROFURAN
Concen: 17.84 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 104573

Ion	Ratio	Lower	Upper
72	100		
42	257.1	153.0	284.2
71	95.4	62.7	116.5

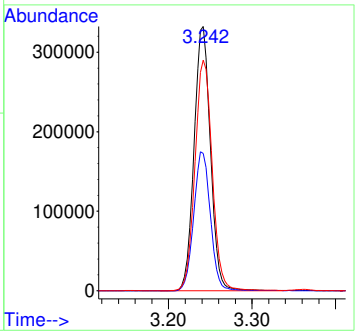


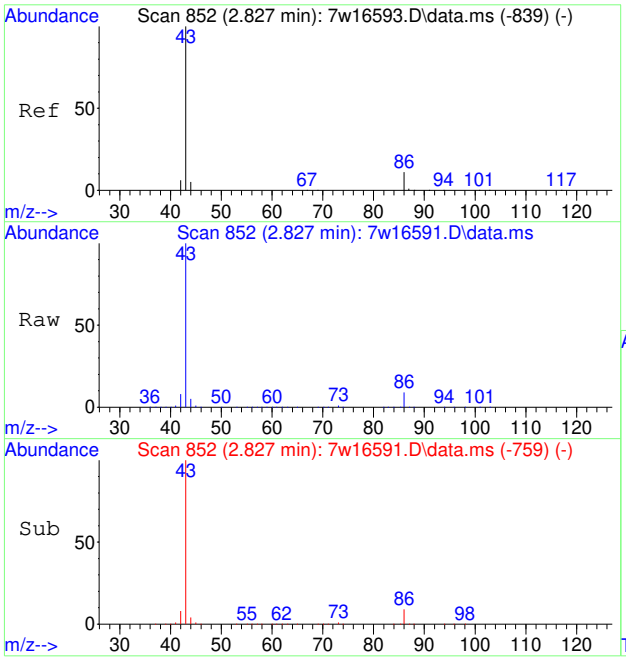


#38
HEXANE
Concen: 19.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 453219

Ion	Ratio	Lower	Upper
57	100		
56	53.6	37.3	69.3
41	92.0	86.7	161.1

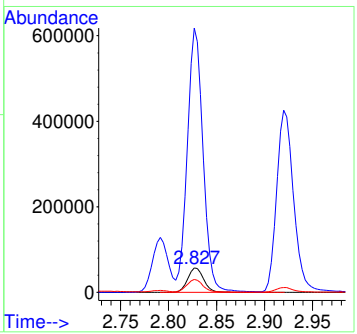


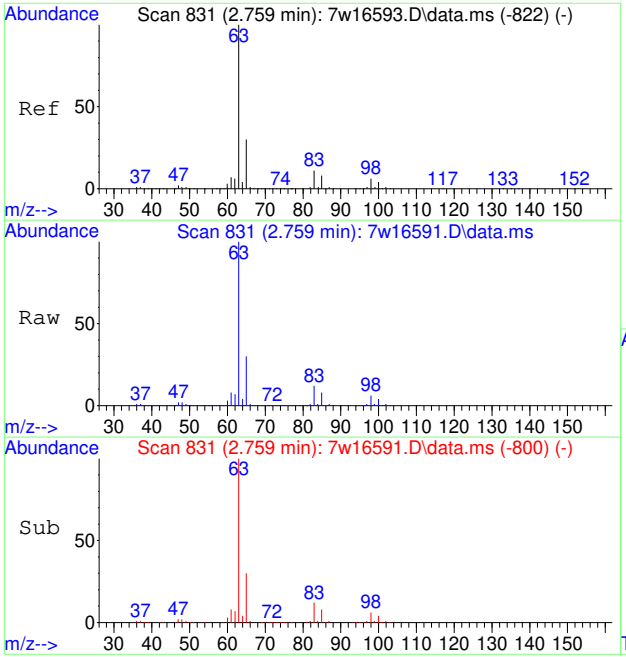


#39
VINYL ACETATE
Concen: 19.48 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 86 Resp: 66441

Ion	Ratio	Lower	Upper
86	100		
43	1069.2	667.9	1240.3
44	51.6	32.7	60.7

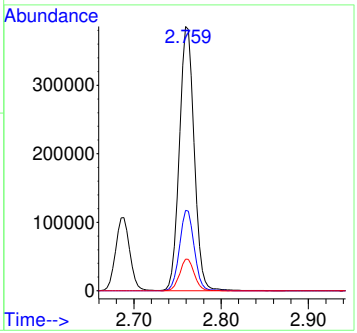


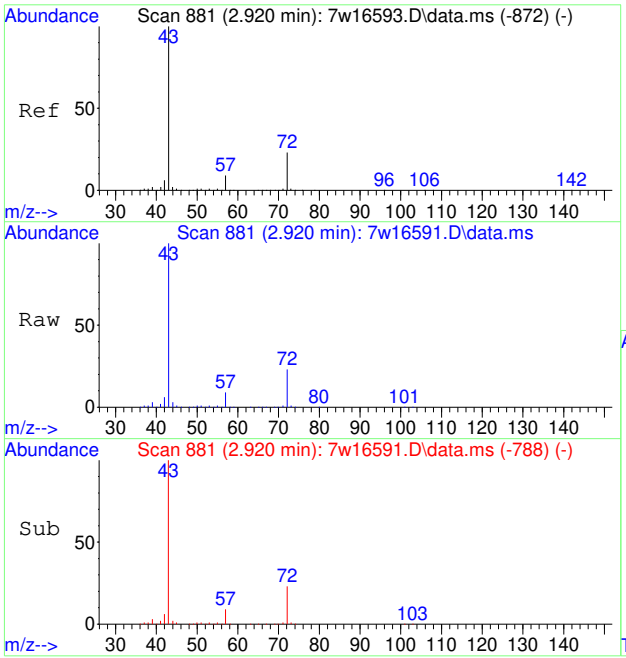


#40
1,1-DICHLOROETHANE
Concen: 18.70 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 455143

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.8	40.6
83	12.0	10.6	19.6

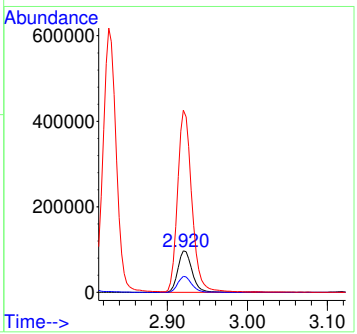


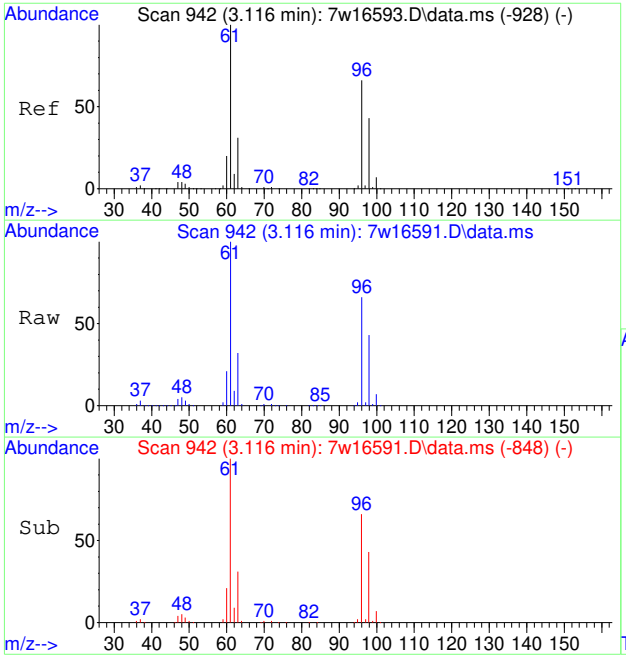


#41
METHYL ETHYL KETONE
Concen: 19.21 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 120276

Ion	Ratio	Lower	Upper
72	100		
57	38.0	20.3	37.7#
43	440.9	282.8	525.2

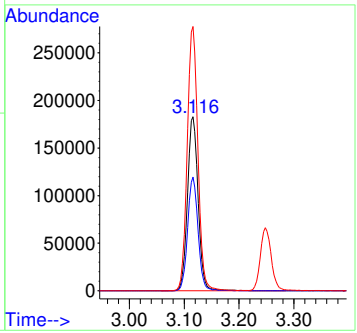


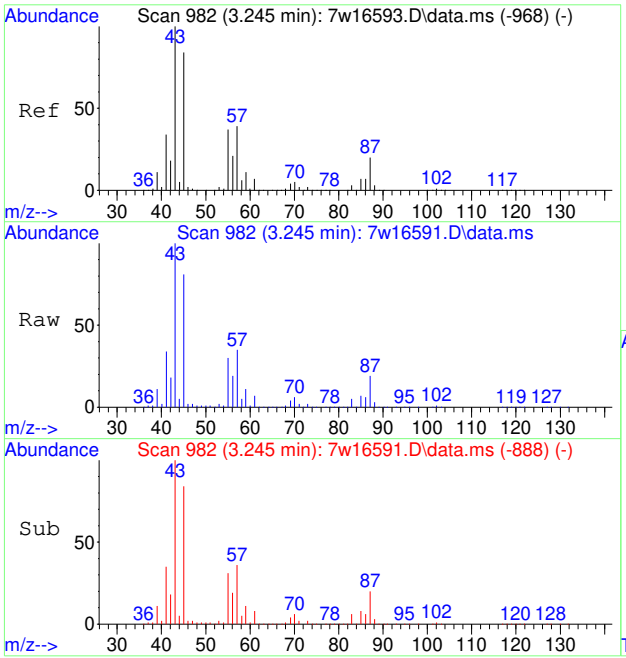


#42
CIS-1,2-DICHLOROETHENE
Concen: 19.20 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 246893

Ion	Ratio	Lower	Upper
96	100		
98	64.1	46.8	86.8
61	152.2	78.3	145.5#

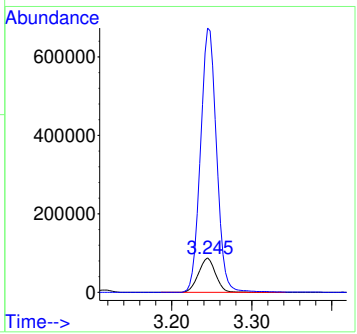


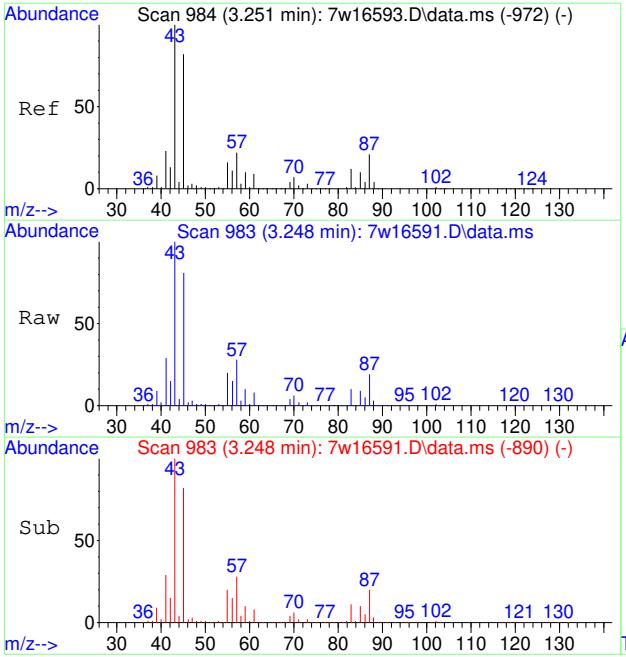


#43
DIISOPROPYL ETHER
Concen: 19.57 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 130636

Ion	Ratio	Lower	Upper
59	100		
45	725.2	532.1	988.1

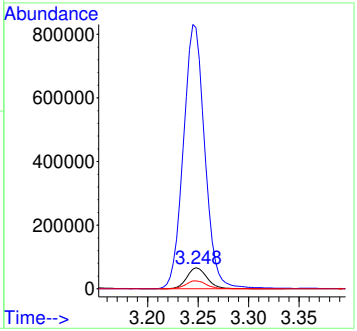


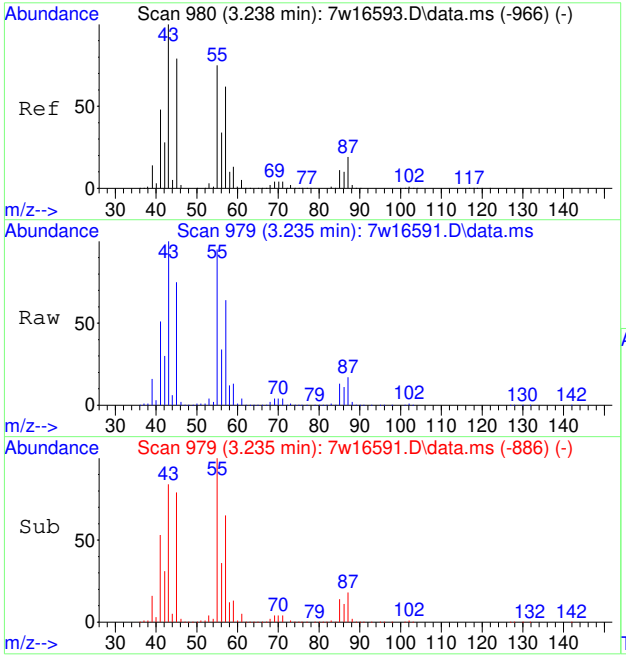


#44
ETHYL ACETATE
Concen: 19.72 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 61 Resp: 93045

Ion	Ratio	Lower	Upper
61	100		
43	1321.4	1127.5	2093.9
88	38.9	36.2	67.2

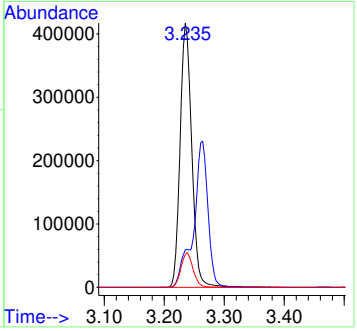


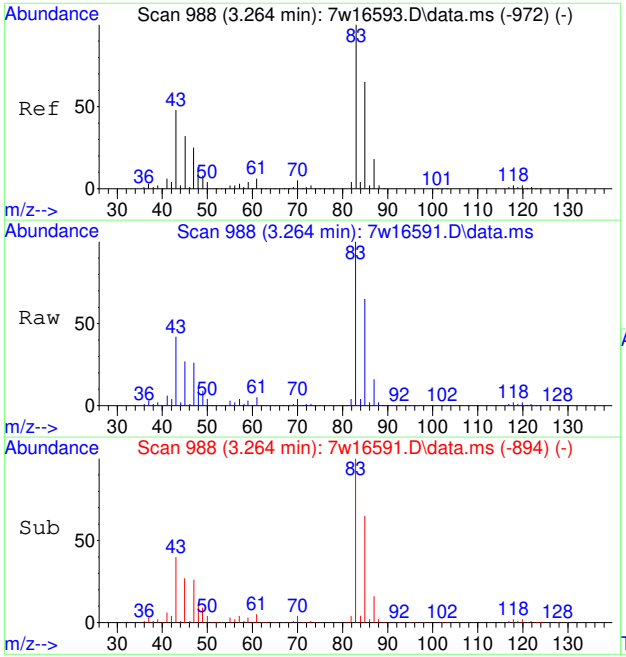


#45
METHYL ACRYLATE
Concen: 19.52 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 561273

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.2	17.0

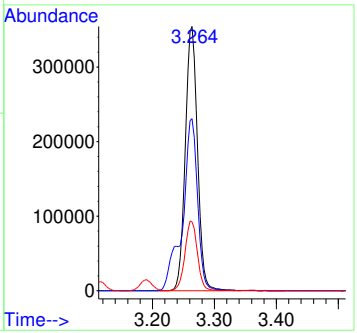


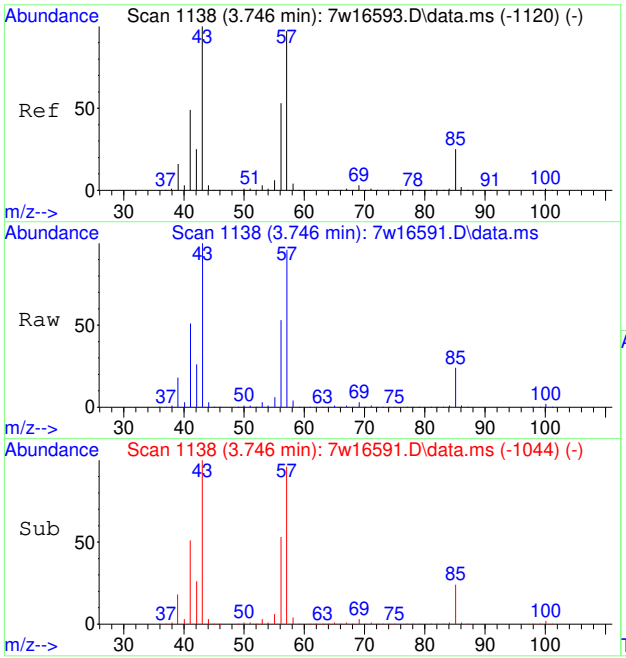


#46
CHLOROFORM
Concen: 19.05 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 484502

Ion	Ratio	Lower	Upper
83	100		
85	80.5	54.6	101.4
47	27.1	17.9	33.3

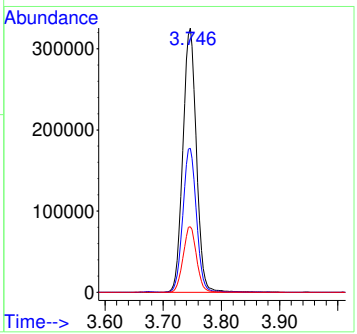


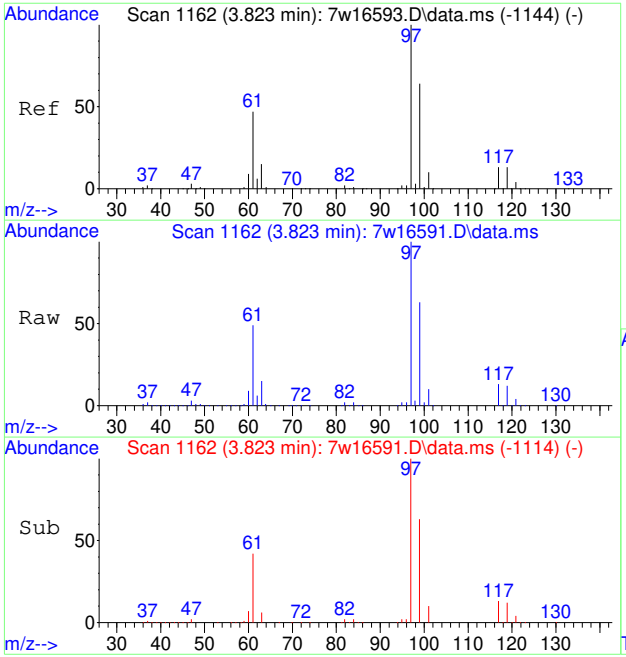


#47
2,4-DIMETHYLPENTANE
Concen: 19.82 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 525364

Ion	Ratio	Lower	Upper
57	100		
56	55.2	39.2	72.8
85	24.9	24.1	44.7

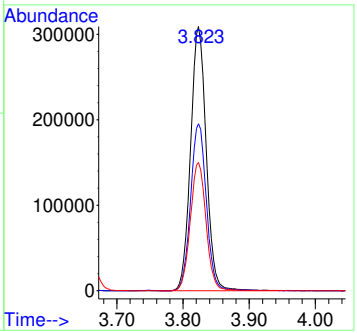


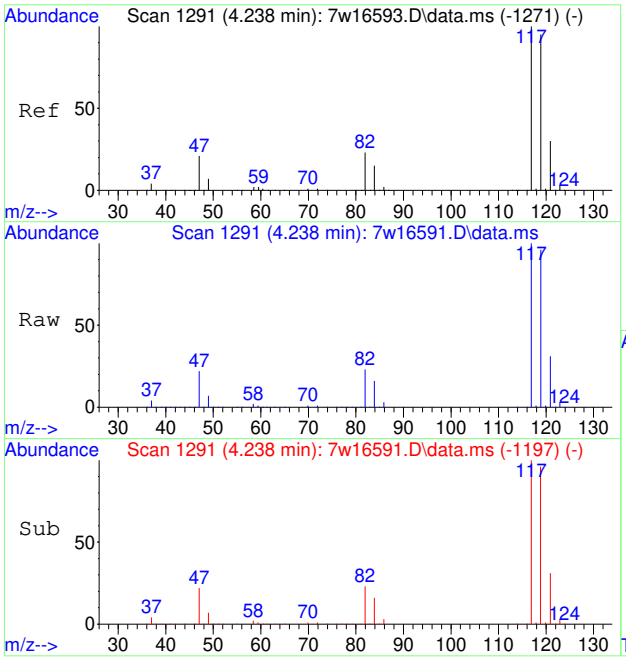


#48
1,1,1-TRICHLOROETHANE
Concen: 19.19 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 97 Resp: 508992

Ion	Ratio	Lower	Upper
97	100		
99	64.0	44.9	83.5
61	48.9	28.6	53.0

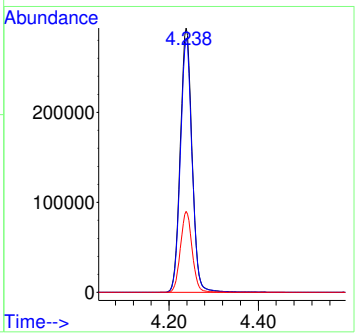


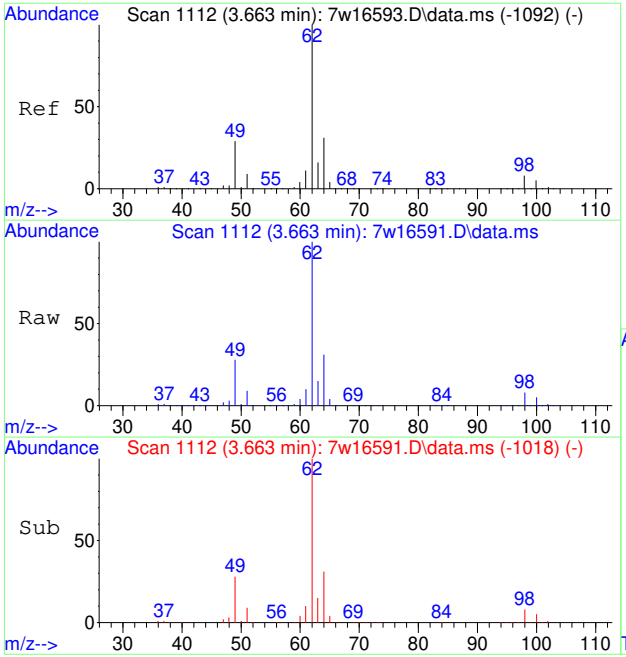


#49
CARBON TETRACHLORIDE
Concen: 18.95 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 536446

Ion	Ratio	Lower	Upper
117	100		
119	95.9	68.8	127.8
121	30.7	22.2	41.2

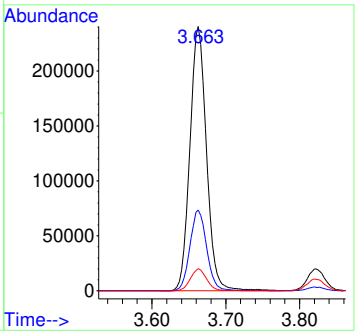


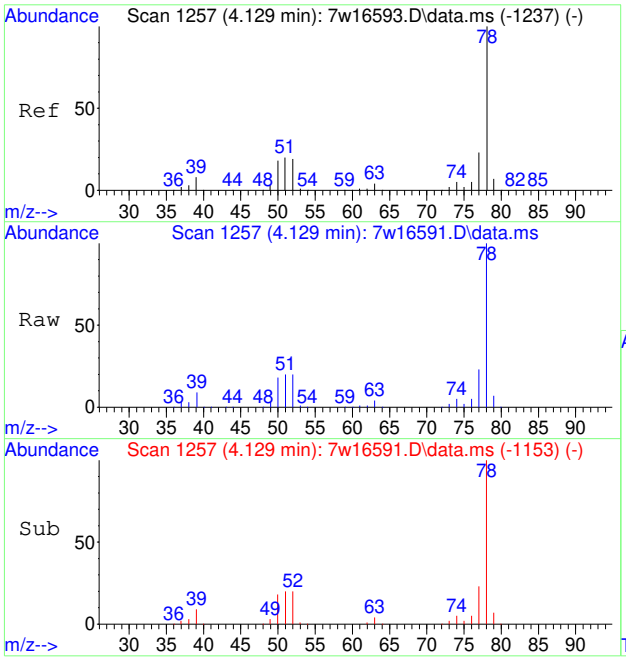


#50
1,2-DICHLOROETHANE
Concen: 18.79 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 375248

Ion	Ratio	Lower	Upper
62	100		
64	31.0	22.5	41.7
98	8.2	6.8	12.6

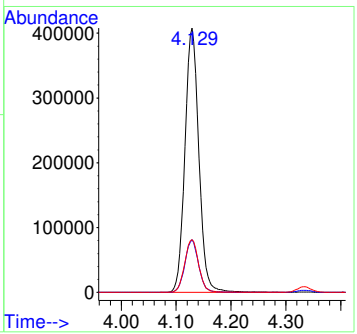


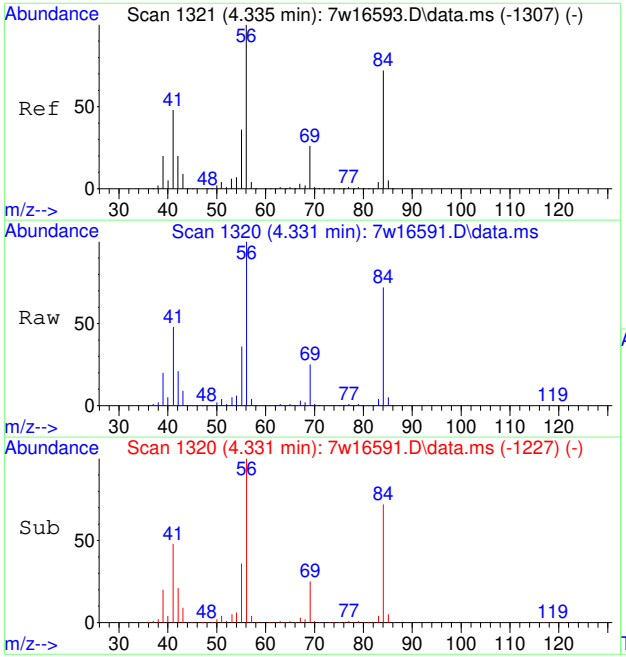


#51
BENZENE
Concen: 19.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 78 Resp: 718150

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	44.6
51	20.1	0.0	47.3

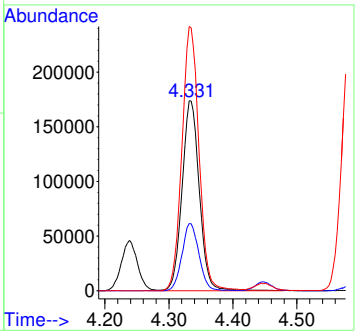


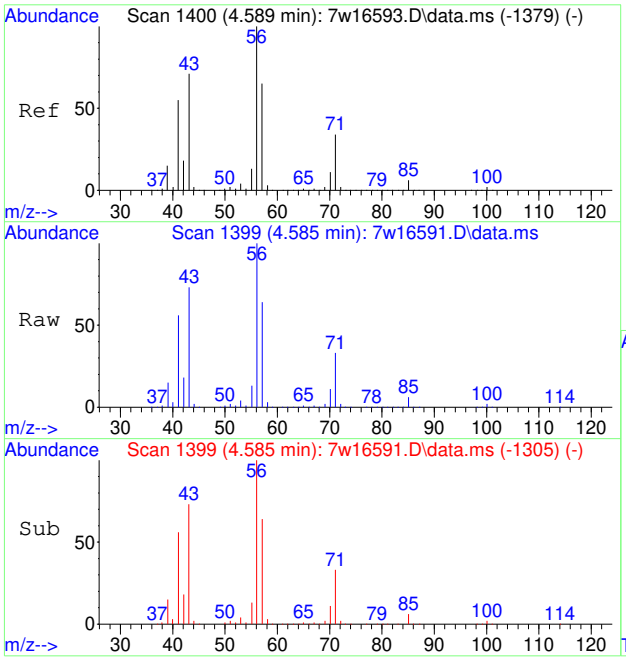


#53
CYCLOHEXANE
Concen: 19.45 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 325475

Ion	Ratio	Lower	Upper
84	100		
69	35.0	22.3	41.5
56	137.7	70.2	130.4#

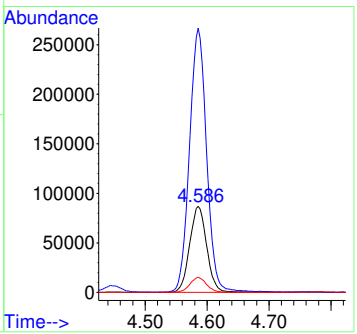


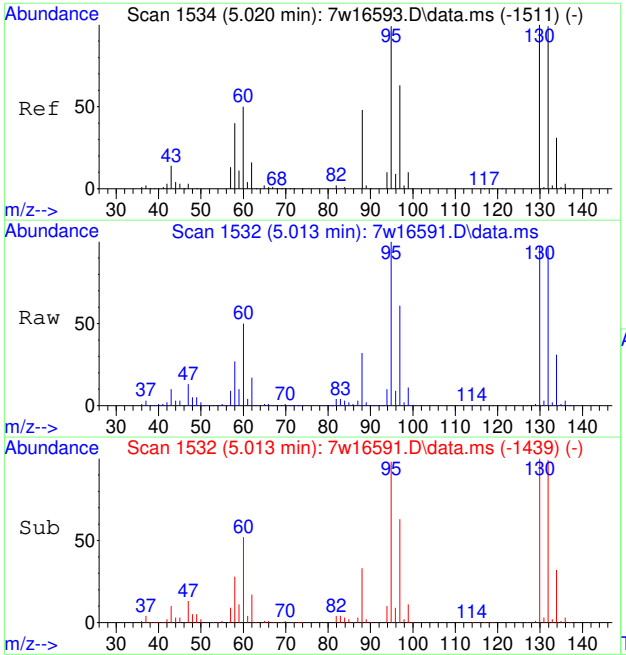


#54
2,3-DIMETHYLPENTANE
Concen: 19.60 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 71 Resp: 167011

Ion	Ratio	Lower	Upper
71	100		
56	306.1	171.4	318.4
85	17.4	12.6	23.4

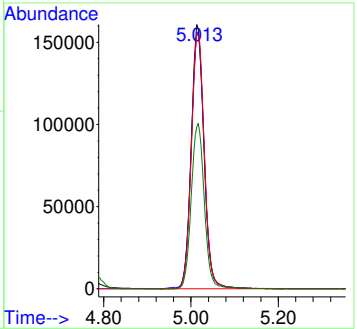


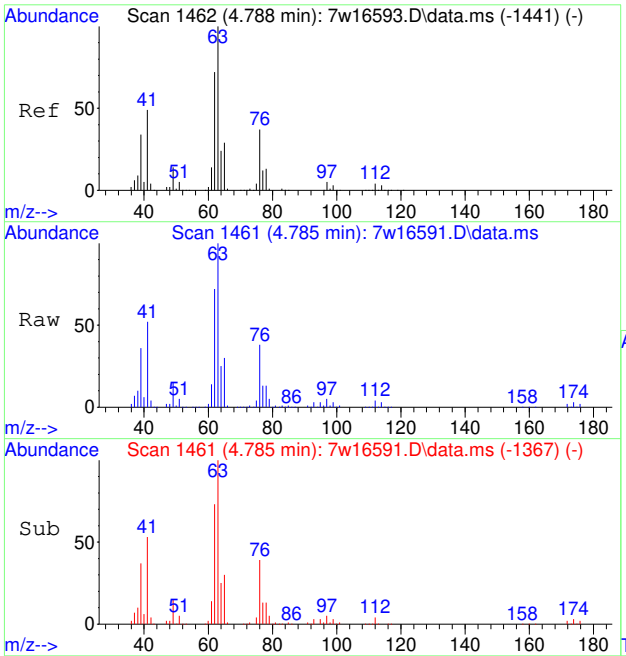


#55
TRICHLOROETHENE
Concen: 18.36 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 95 Resp: 327435

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	98.7	79.4	147.4
97	64.2	45.0	83.6

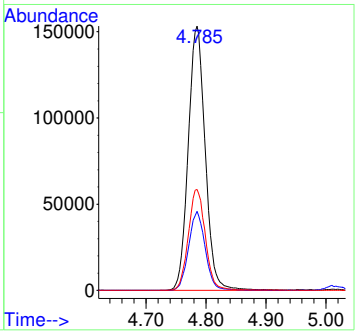


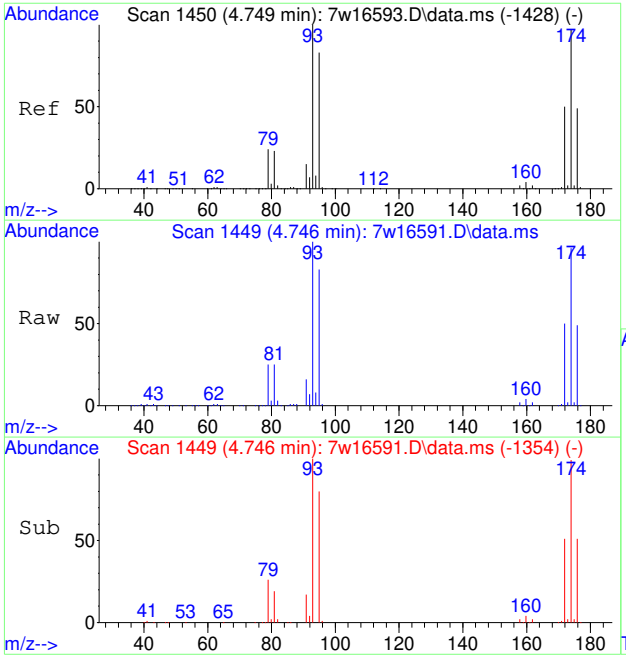


#56
1,2-DICHLOROPROPANE
Concen: 19.23 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 302257

Ion	Ratio	Lower	Upper
63	100		
65	29.4	22.6	42.0
76	38.4	31.8	59.0

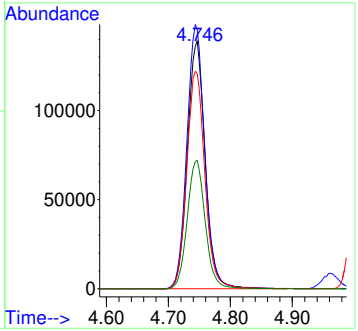


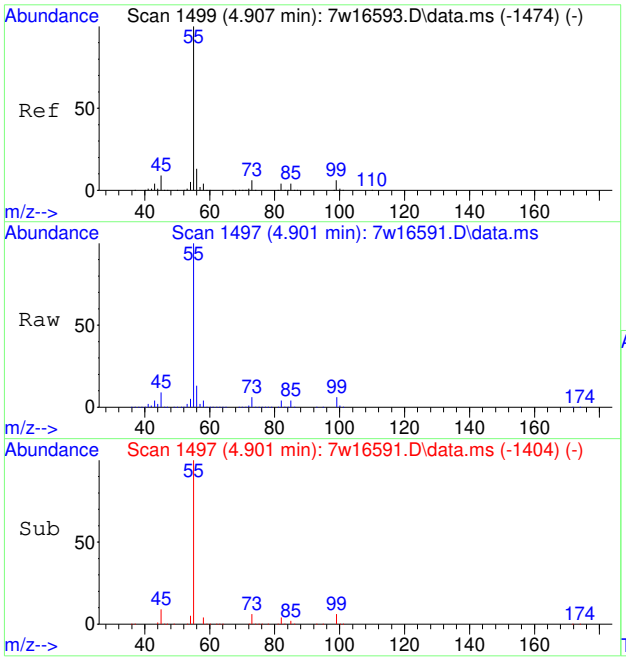


#57
DIBROMOMETHANE
Concen: 19.08 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:174 Resp: 277930

Ion	Ratio	Lower	Upper
174	100		
93	107.2	67.3	125.1
95	89.6	56.8	105.6
172	52.5	36.3	67.5

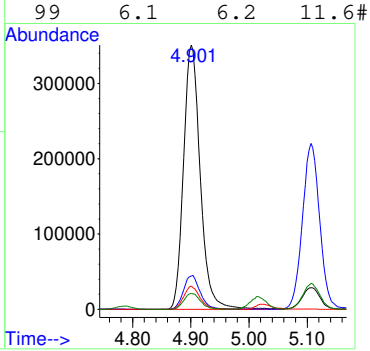


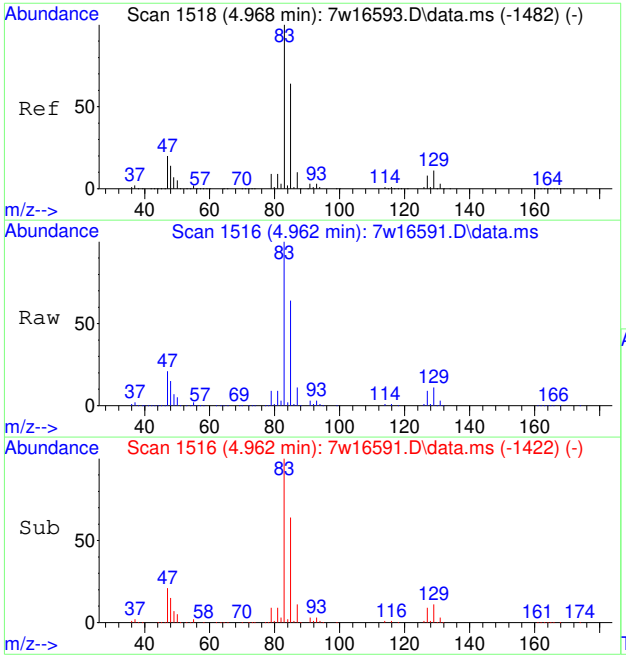


#58
ETHYL ACRYLATE
Concen: 19.73 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 703238

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	8.7	6.6	12.2
99	6.1	6.2	11.6#

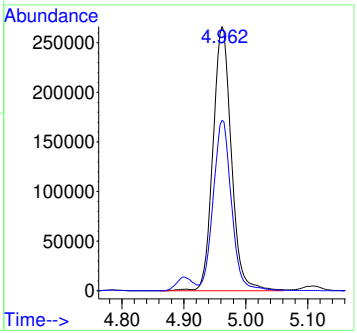


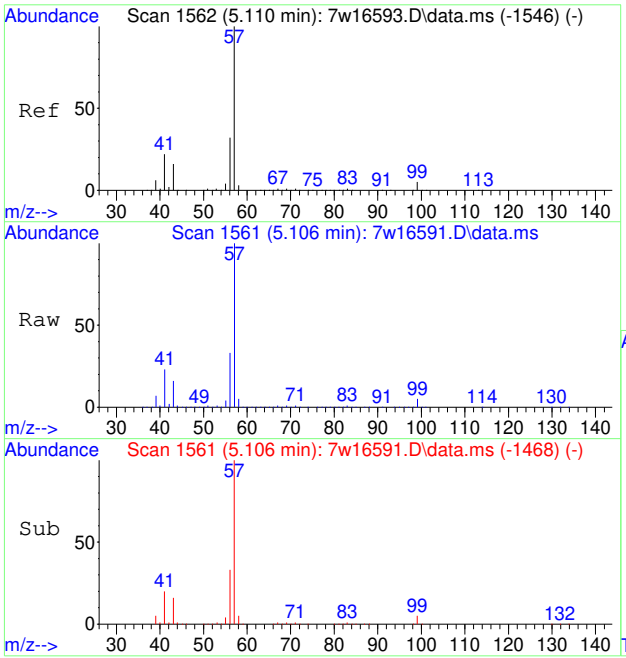


#59
BROMODICHLOROMETHANE
Concen: 18.61 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 549357

Ion	Ratio	Lower	Upper
83	100		
85	64.6	44.9	83.5

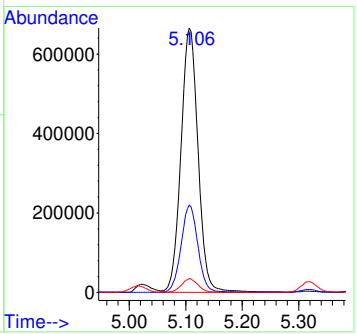


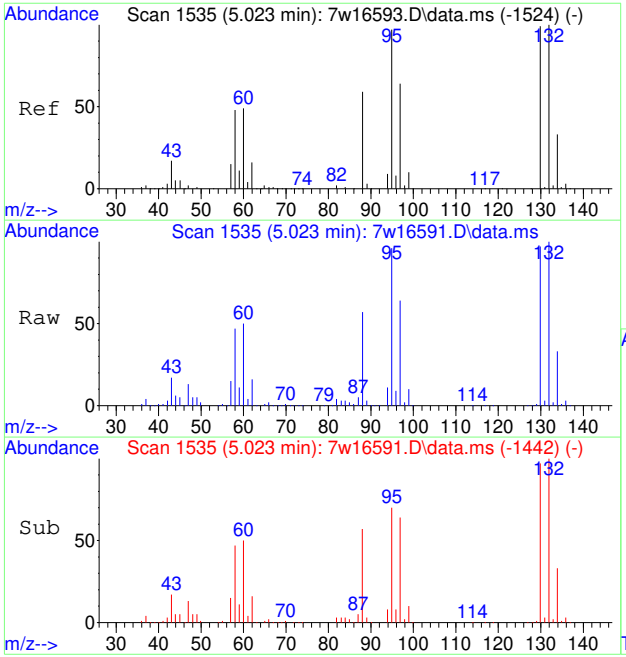


#60
2,2,4-TRIMETHYLPENTANE
Concen: 18.90 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 1404688

Ion	Ratio	Lower	Upper
57	100		
56	32.6	24.4	45.2
99	5.1	5.2	9.6#

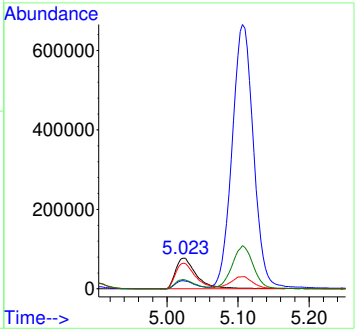


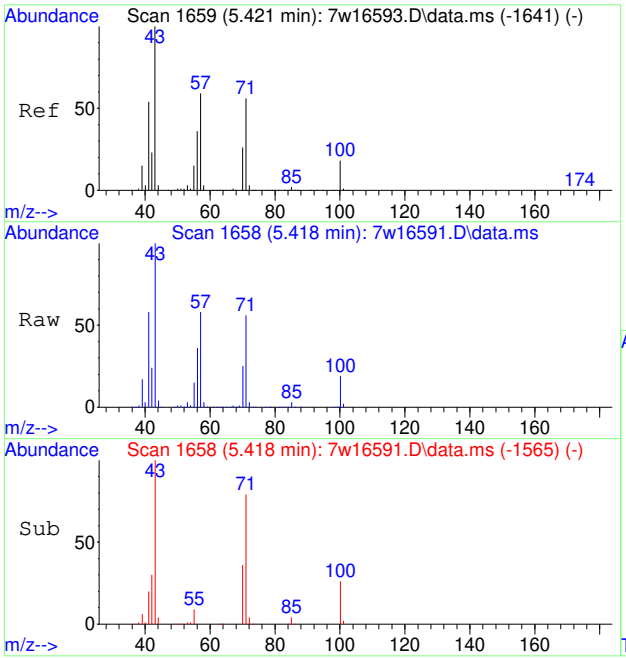


#61
1,4-DIOXANE
Concen: 18.11 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 88 Resp: 159487

Ion	Ratio	Lower	Upper
88	100		
57	24.0	13.1	24.3
58	77.6	39.1	72.5#
43	27.7	18.3	33.9

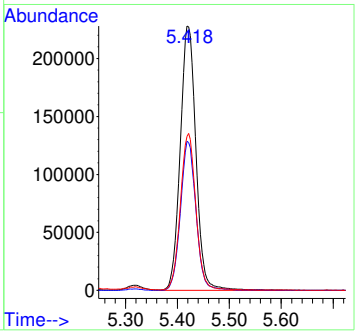


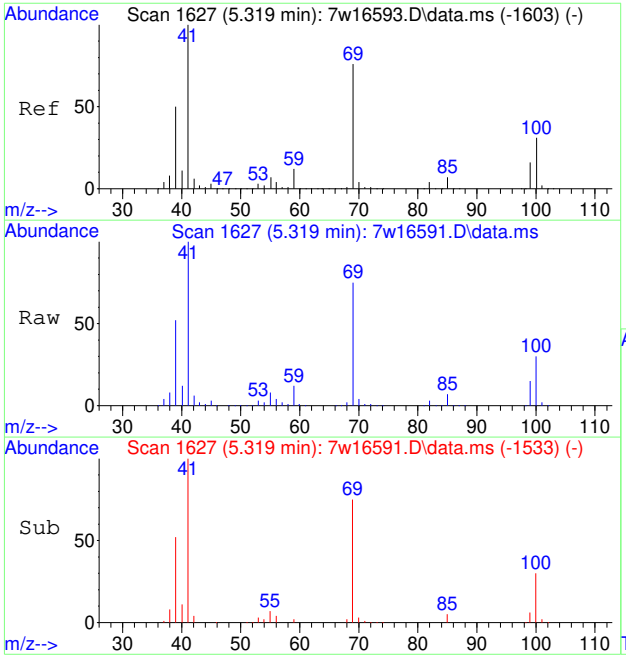


#62
HEPTANE
Concen: 19.19 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 476905

Ion	Ratio	Lower	Upper
43	100		
71	55.8	45.0	83.6
57	58.6	37.2	69.0

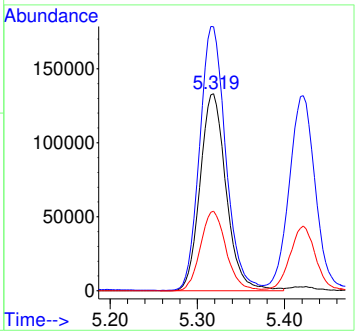


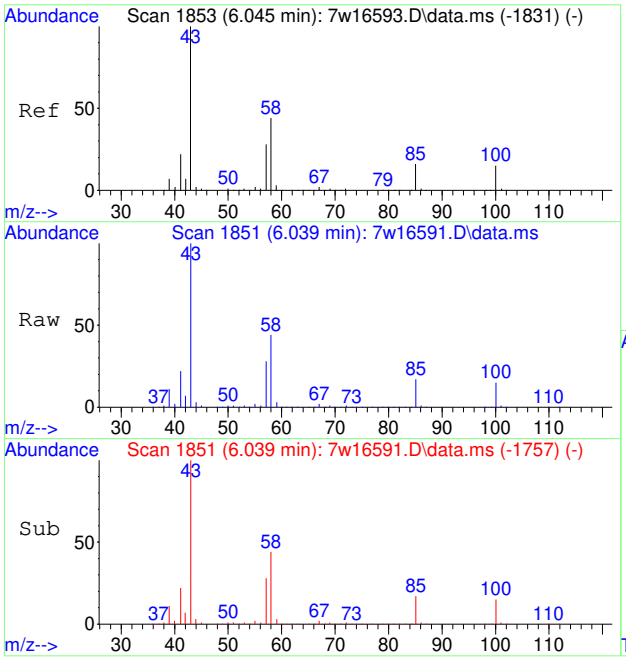


#63
METHYL METHACRYLATE
Concen: 19.41 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 276982

Ion	Ratio	Lower	Upper
69	100		
41	133.5	84.3	156.5
100	39.8	30.8	57.2

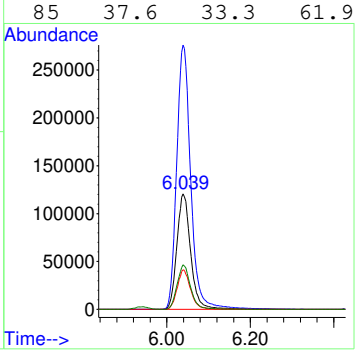


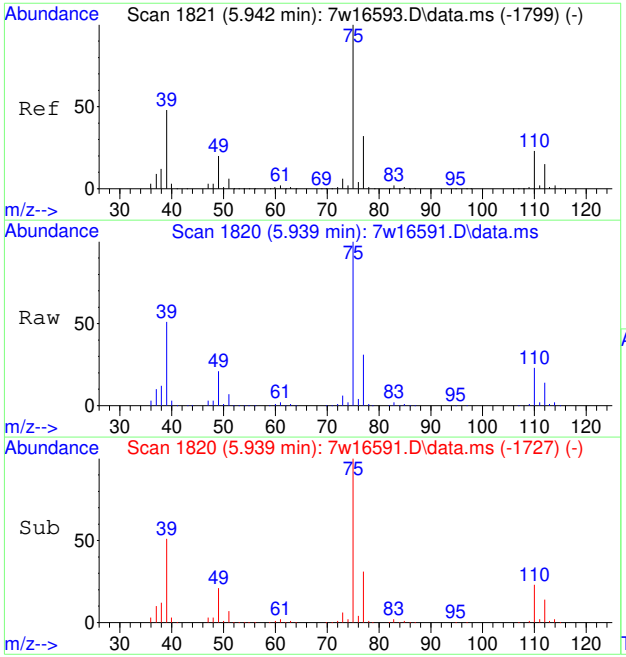


#64
METHYL ISOBUTYL KETONE
Concen: 19.00 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 278396

Ion	Ratio	Lower	Upper
58	100		
43	0.0	193.8	360.0#
100	33.4	32.8	60.8
85	37.6	33.3	61.9

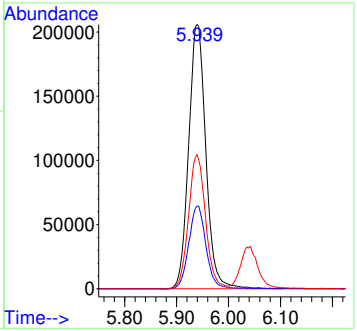


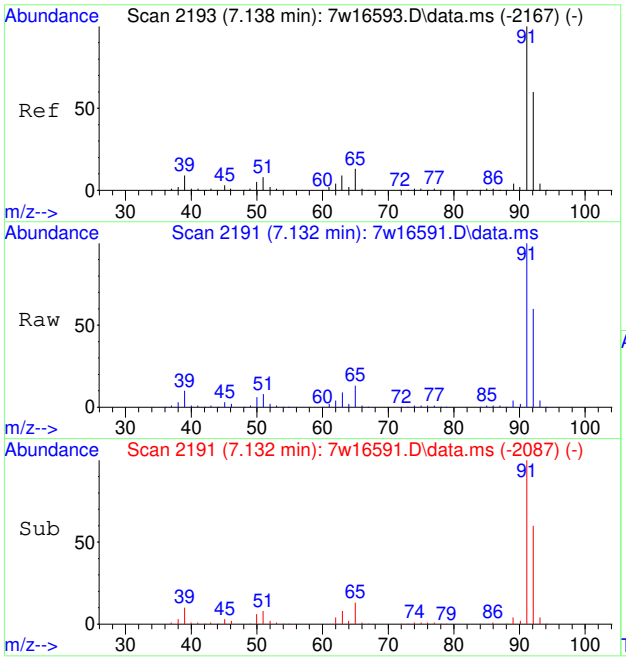


#65
CIS-1,3-DICHLOROPROPENE
Concen: 19.04 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 474515

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	40.8
39	50.0	38.5	71.5

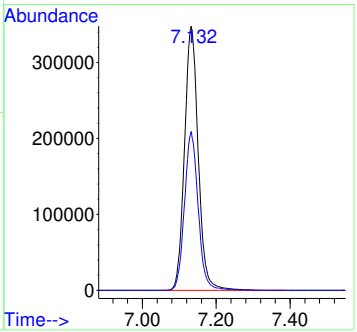


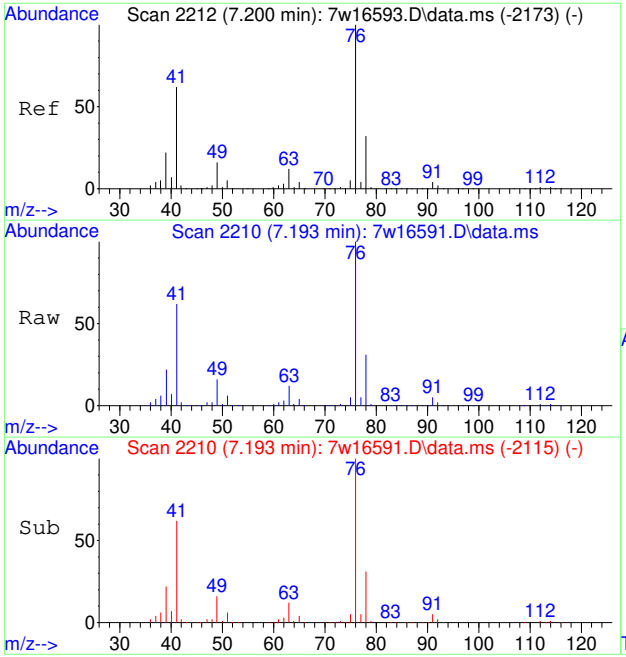


#66
TOLUENE
Concen: 19.86 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 898243

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

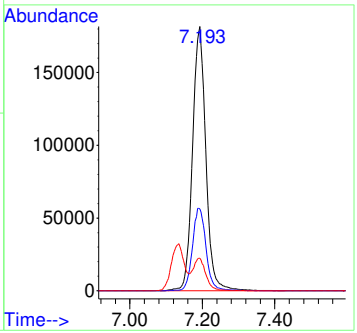


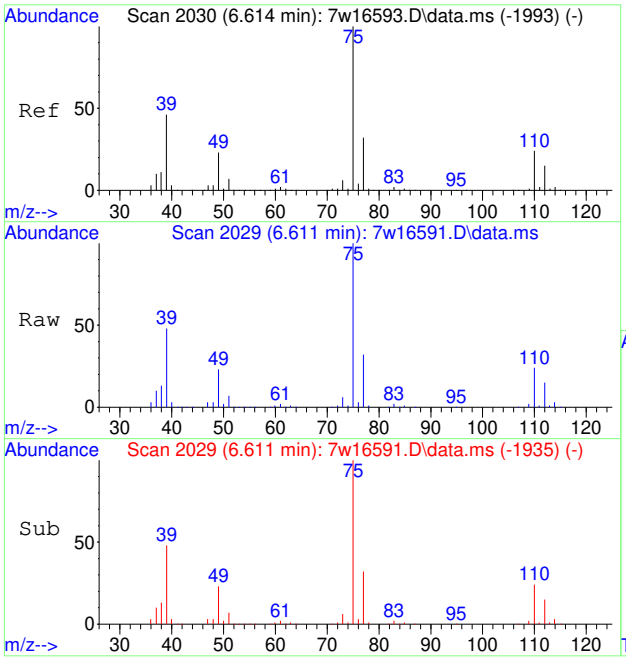


#67
1,3-DICHLOROPROPANE
Concen: 19.84 PPBV
RT: 7.193 min Scan# 2210
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 463972

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	12.7	8.0	14.8

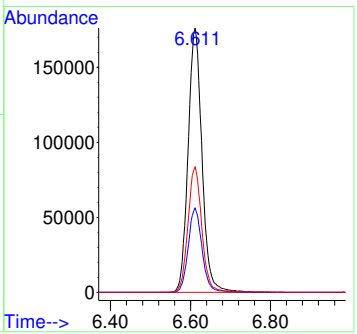


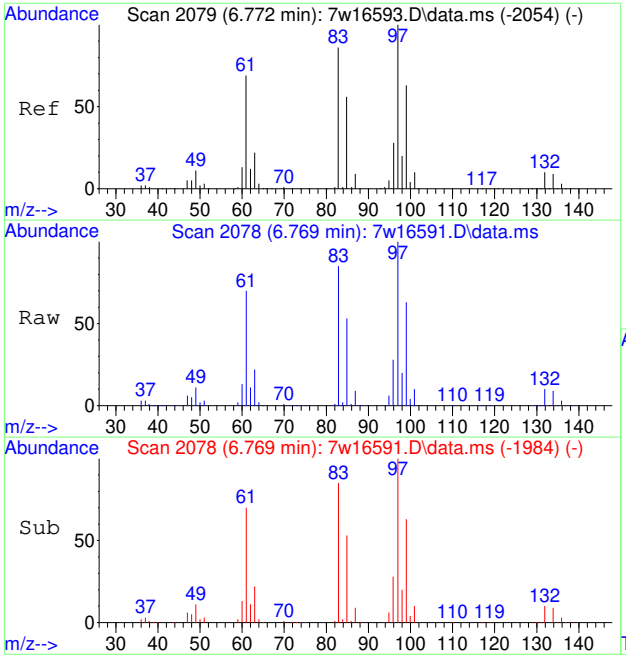


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 18.27 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 425650

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.5	41.7
39	47.6	37.2	69.0

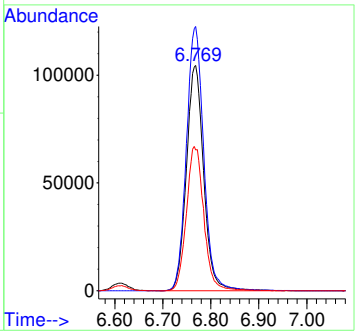


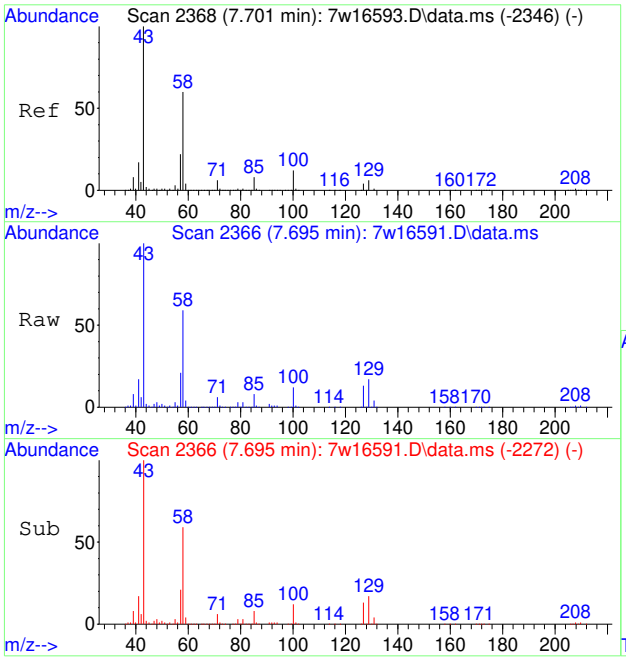


#69
1,1,2-TRICHLOROETHANE
Concen: 19.57 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 262141

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	64.8	45.5	84.5

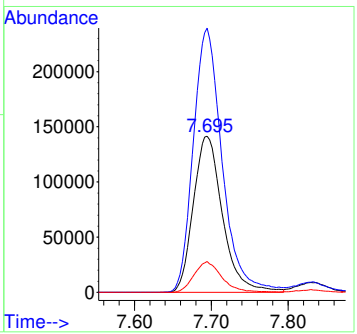


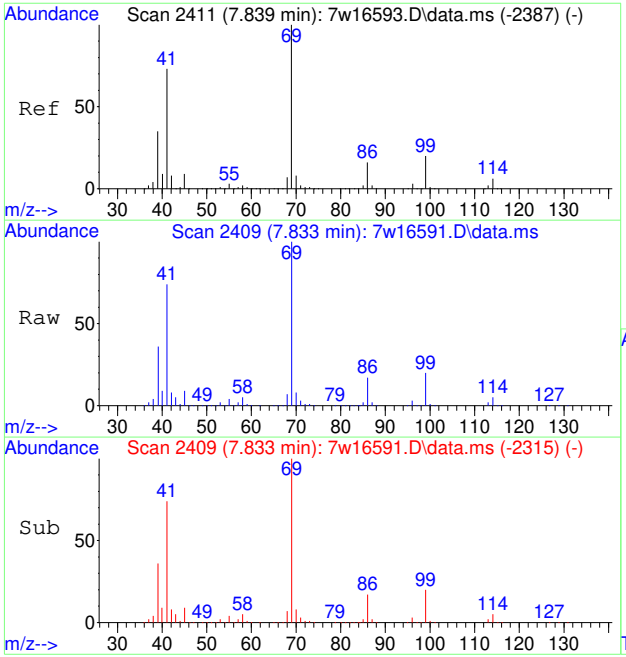


#70
2-HEXANONE
Concen: 19.43 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 374273

Ion	Ratio	Lower	Upper
58	100		
43	167.3	141.7	263.3
100	18.8	18.9	35.1#

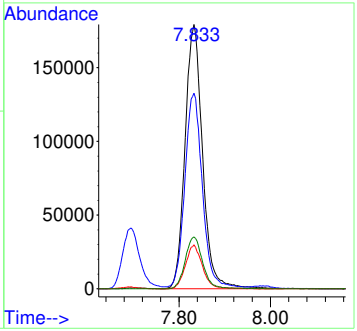


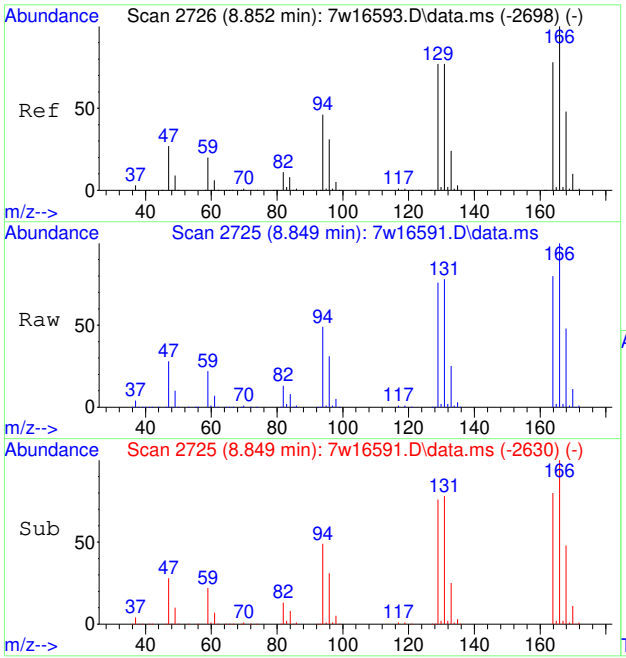


#71
ETHYL METHACRYLATE
Concen: 19.46 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 477947

Ion	Ratio	Lower	Upper
69	100		
41	74.6	49.3	91.6
86	16.2	11.6	21.6
99	19.7	13.4	24.8

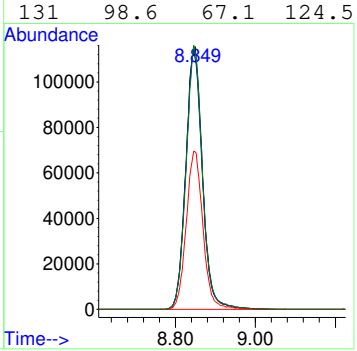


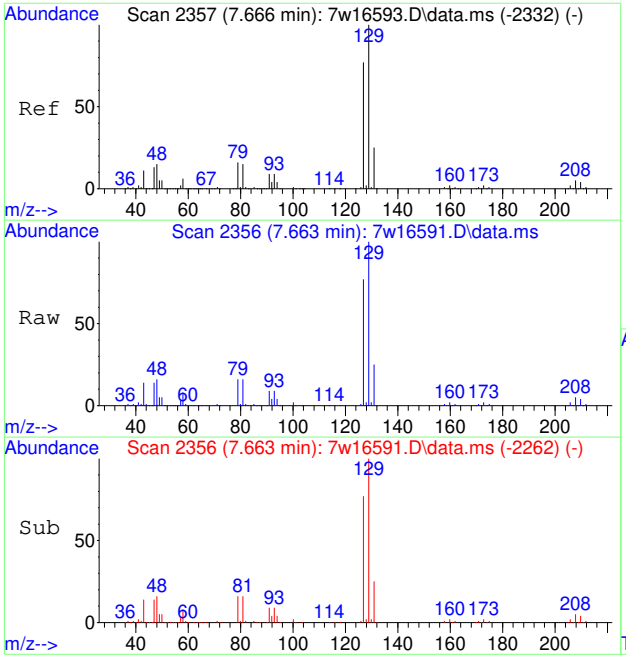


#72
TETRACHLOROETHENE
Concen: 20.14 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:164 Resp: 335304

Ion	Ratio	Lower	Upper
164	100		
129	98.3	69.7	129.5
168	60.2	43.4	80.6
131	98.6	67.1	124.5

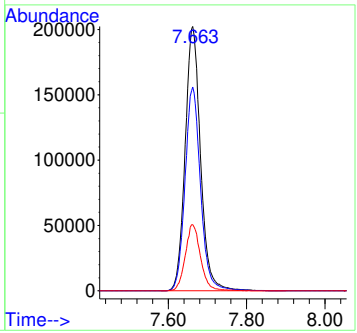


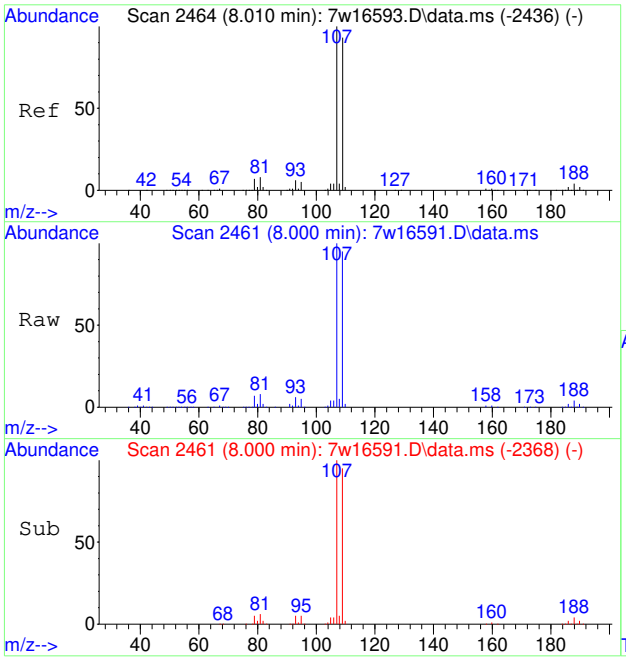


#73
DIBROMOCHLOROMETHANE
Concen: 19.81 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:129 Resp: 551638

Ion	Ratio	Lower	Upper
129	100		
127	77.6	53.0	98.4
131	24.9	16.9	31.3

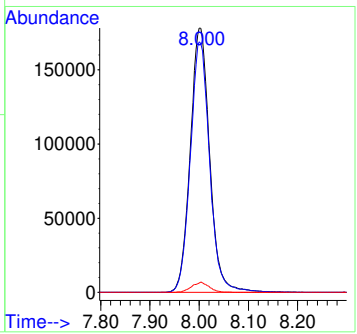


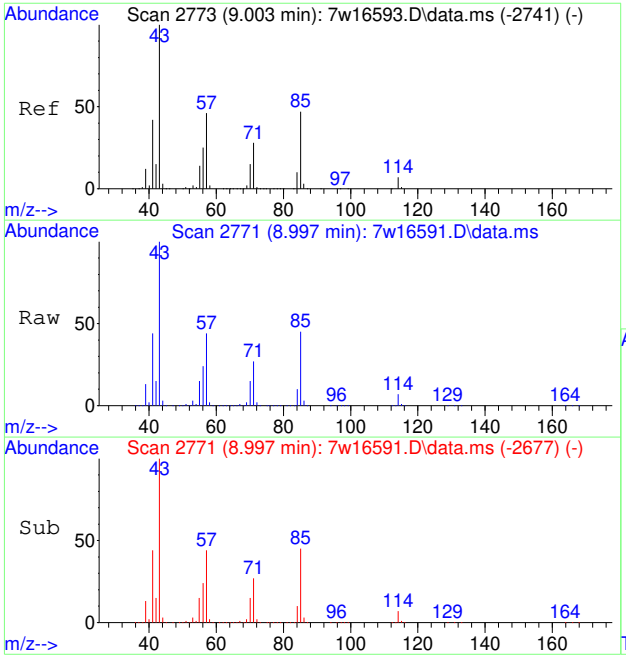


#74
1,2-DIBROMOETHANE
Concen: 20.42 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:107 Resp: 487978

Ion	Ratio	Lower	Upper
107	100		
109	94.6	65.7	122.1
188	3.6	2.4	4.4

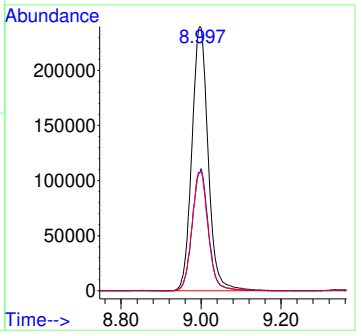


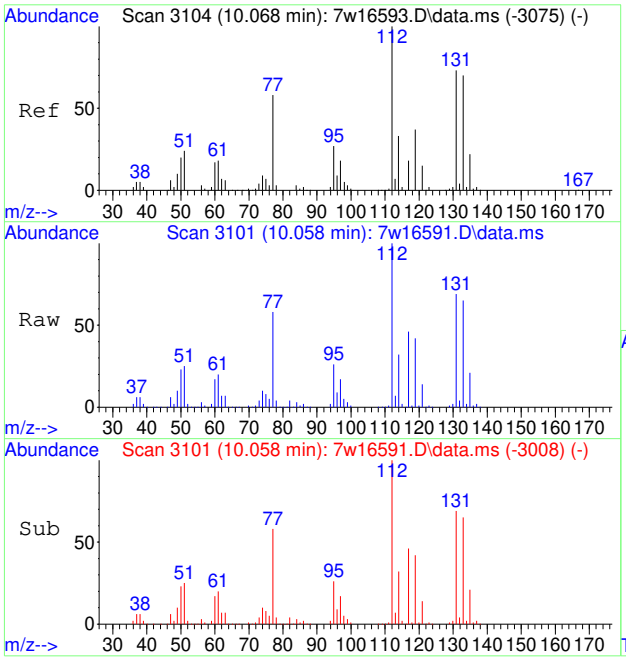


#75
OCTANE
Concen: 19.89 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 676810

Ion	Ratio	Lower	Upper
43	100		
85	45.8	36.5	67.9
57	44.8	27.6	51.2

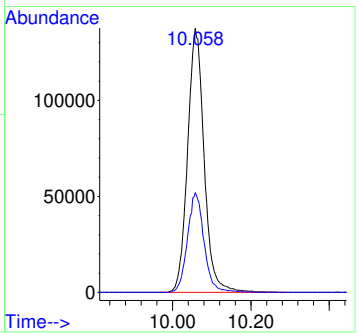


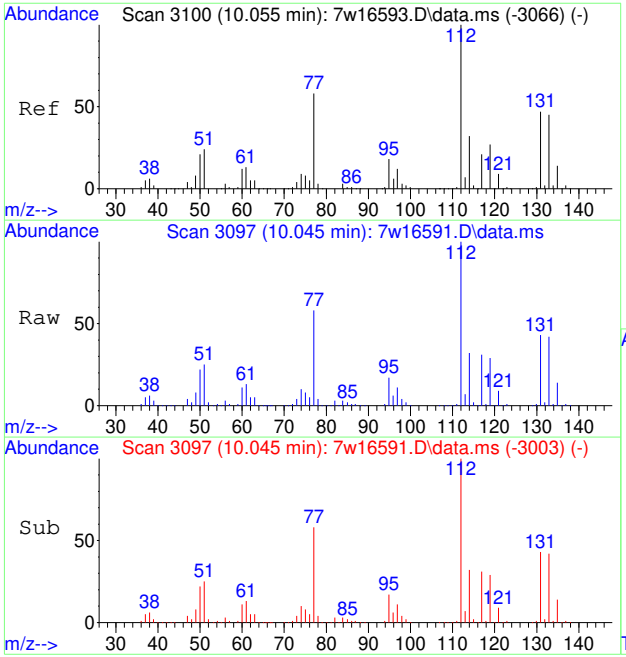


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.28 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:131 Resp: 402558

Ion	Ratio	Lower	Upper
131	100		
95	37.9	23.7	43.9

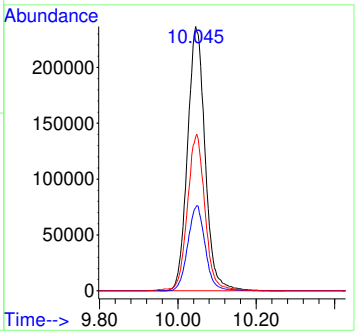


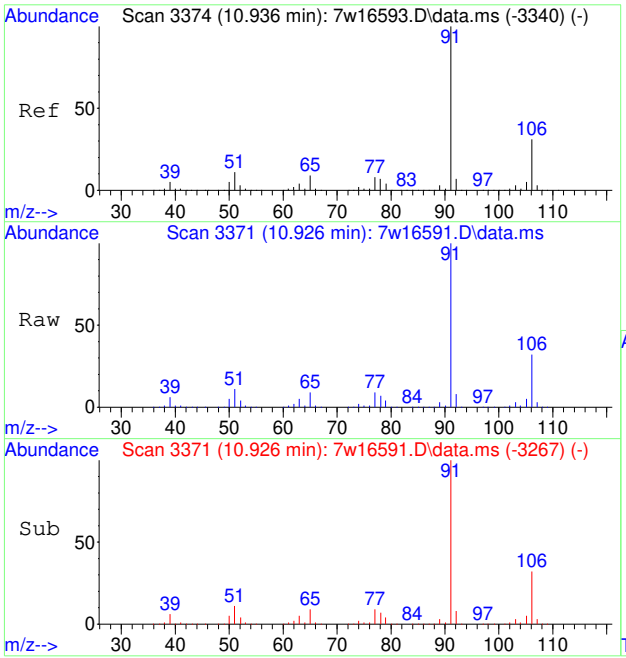


#78
CHLOROBENZENE
Concen: 20.26 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:112 Resp: 735731

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.4	34.4	63.8

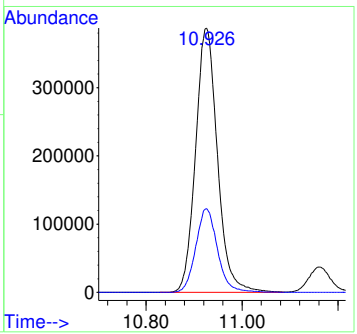


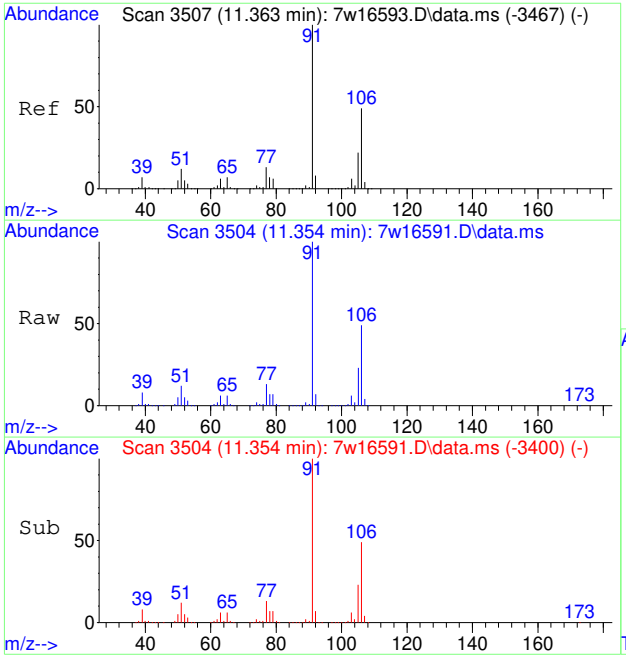


#79
ETHYLBENZENE
Concen: 20.44 PPBV
RT: 10.926 min Scan# 3371
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1222868

Ion	Ratio	Lower	Upper
91	100		
106	31.6	2.8	62.8

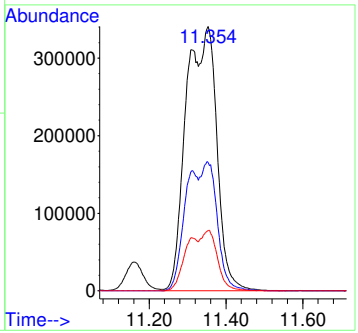


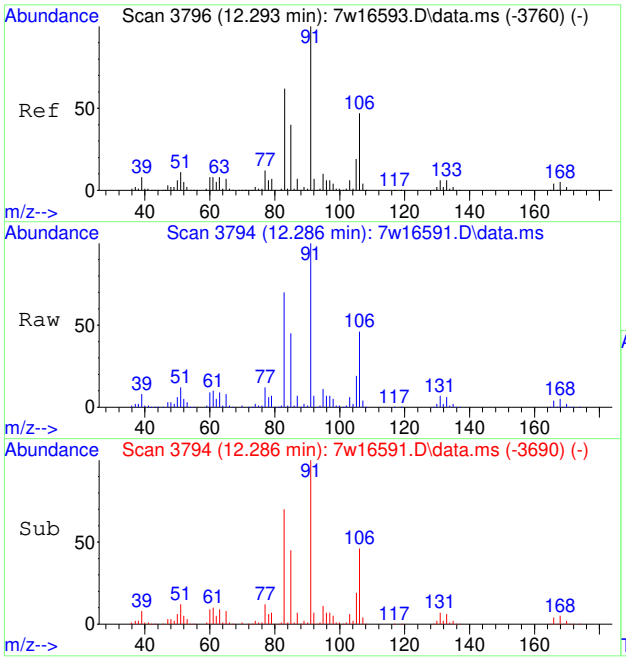


#80
M,P-XYLENE
Concen: 39.40 PPBV
RT: 11.354 min Scan# 3504
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1892381

Ion	Ratio	Lower	Upper
91	100		
106	27.4	0.0	58.7
105	12.7	0.0	43.2

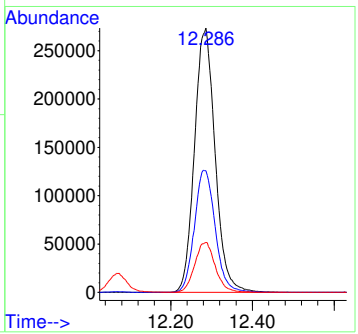


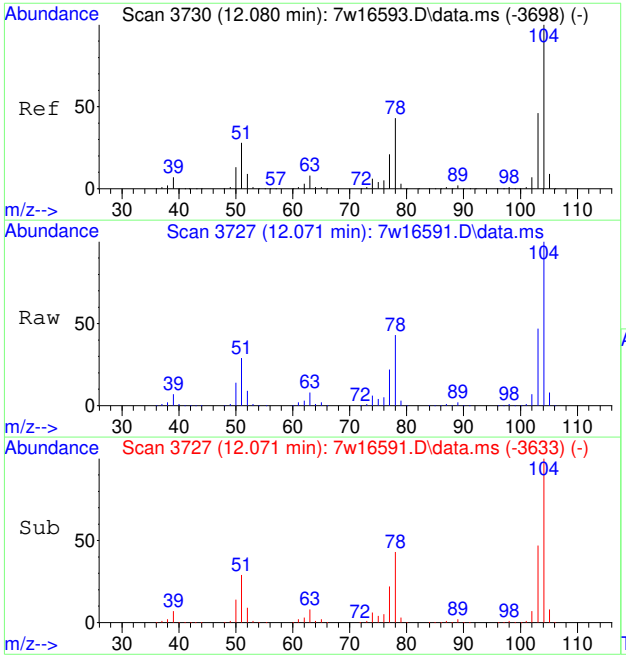


#81
O-XYLENE
Concen: 20.37 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 959093

Ion	Ratio	Lower	Upper
91	100		
106	46.0	34.1	63.3
105	18.8	14.6	27.2

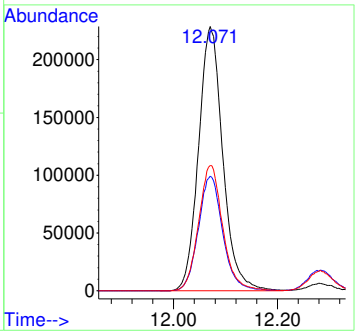


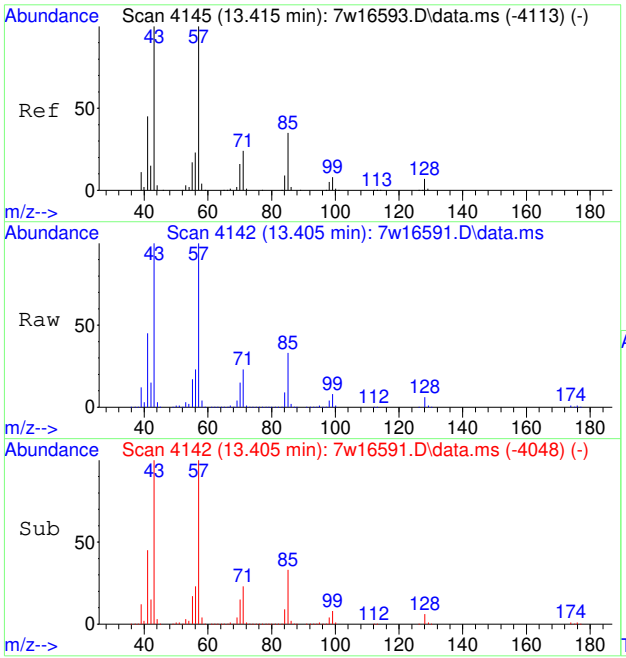


#82
STYRENE
Concen: 20.29 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:104 Resp: 744213

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	47.3	33.2	61.7

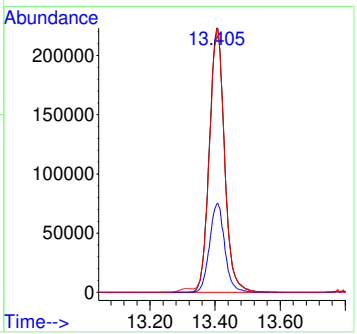


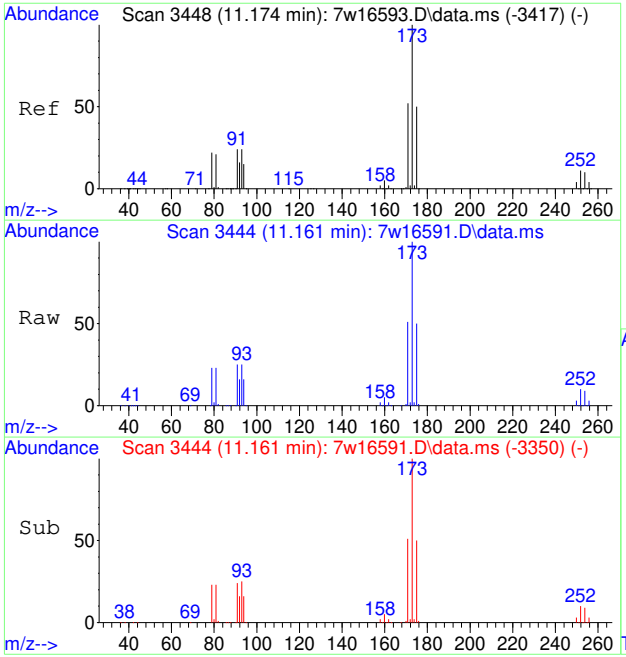


#83
NONANE
Concen: 20.03 PPBV
RT: 13.405 min Scan# 4142
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 723418

Ion	Ratio	Lower	Upper
43	100		
85	33.6	27.6	51.2
57	99.4	56.4	104.7

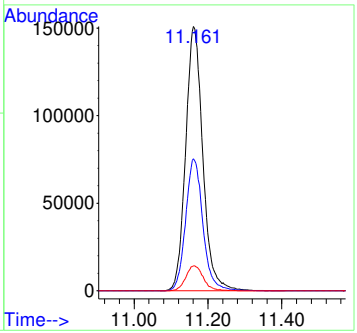


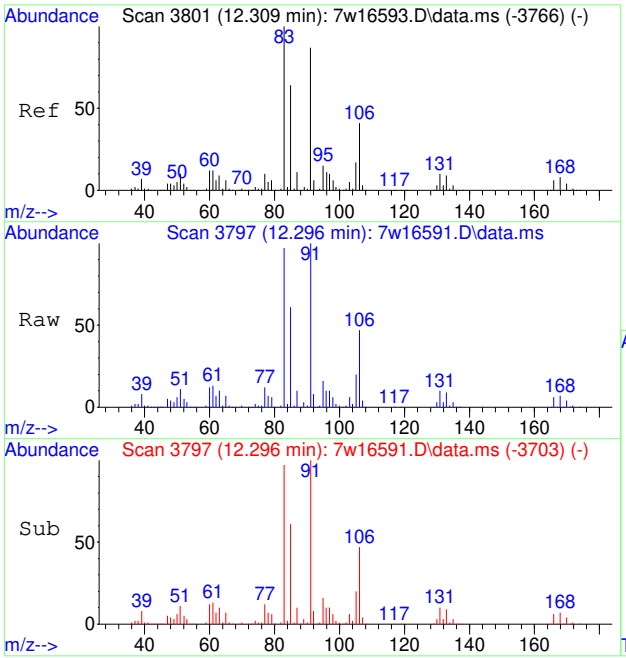


#84
BROMOFORM
Concen: 20.35 PPBV
RT: 11.161 min Scan# 3444
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:173 Resp: 487585

Ion	Ratio	Lower	Upper
173	100		
175	50.2	33.0	61.4
254	9.8	5.9	10.9

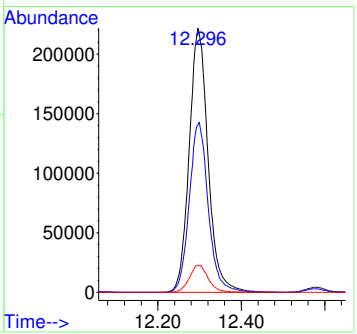


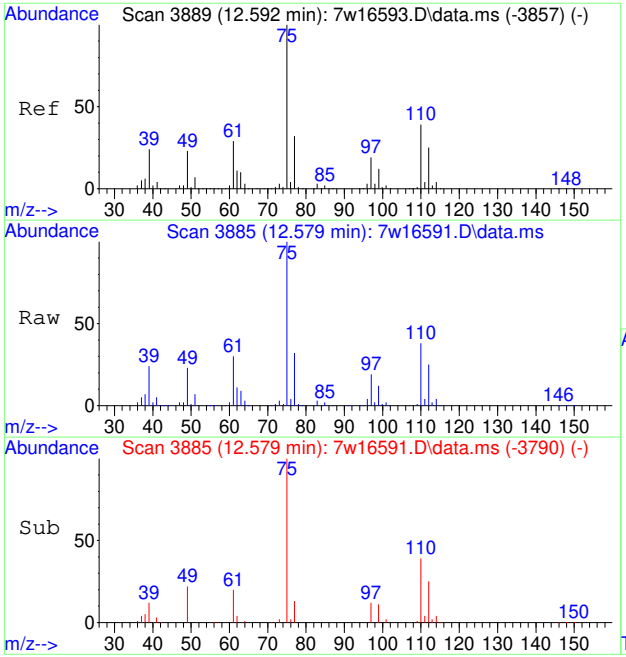


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 20.31 PPBV
RT: 12.296 min Scan# 3797
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 696701

Ion	Ratio	Lower	Upper
83	100		
85	64.7	44.6	82.8
131	10.4	8.0	14.8

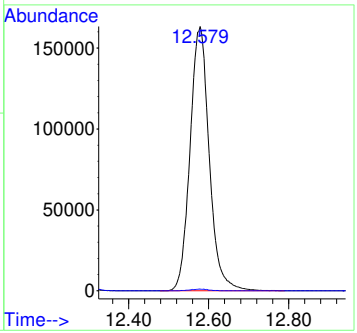


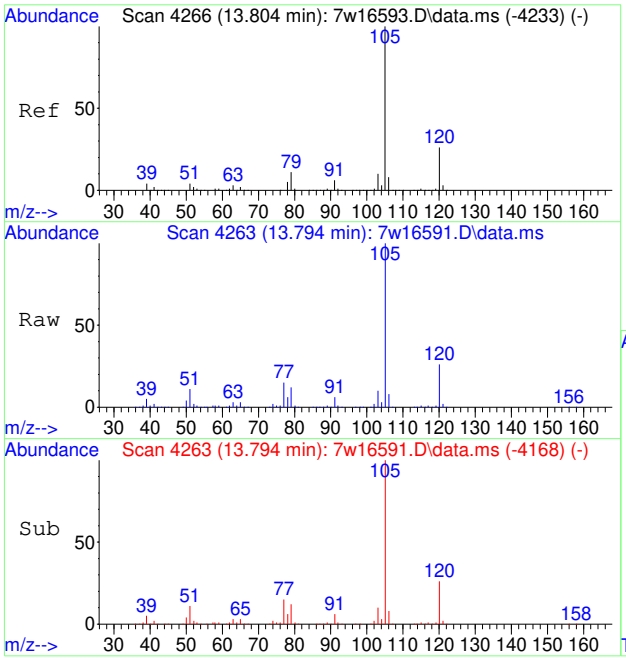


#86
1,2,3-TRICHLOROPROPANE
Concen: 20.17 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 544148

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

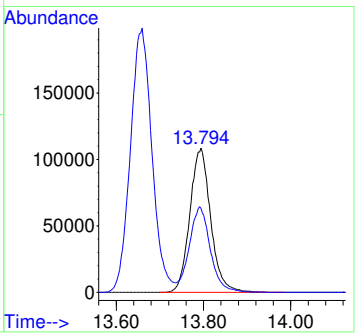


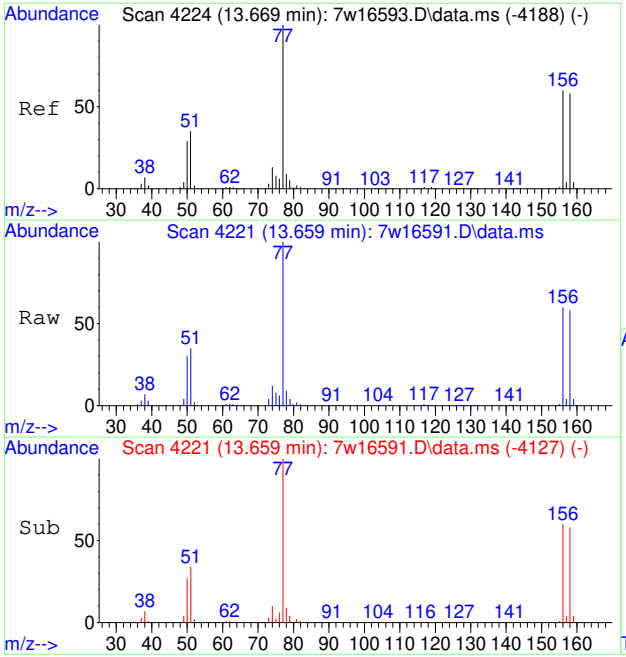


#88
ISOPROPYLBENZENE
Concen: 19.98 PPBV
RT: 13.794 min Scan# 4263
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 360209

Ion	Ratio	Lower	Upper
120	100		
77	59.8	36.0	67.0

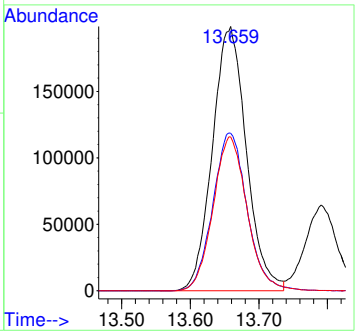


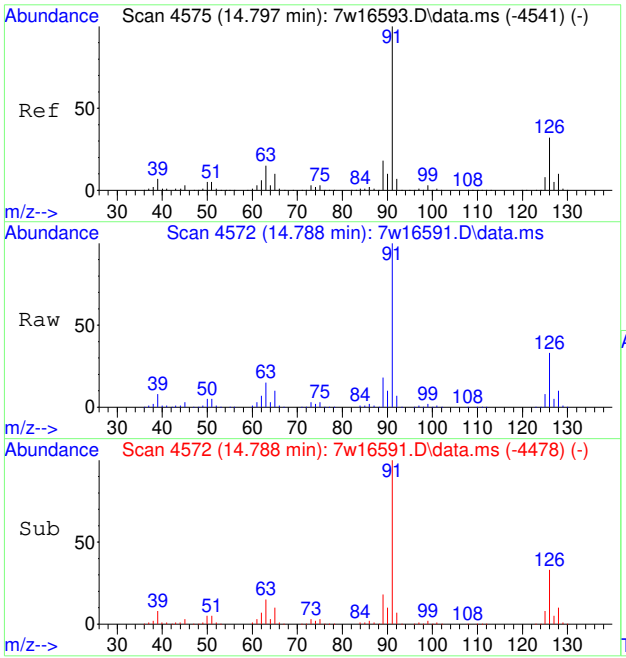


#89
BROMOBENZENE
Concen: 20.06 PPBV
RT: 13.659 min Scan# 4221
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 77 Resp: 684288

Ion	Ratio	Lower	Upper
77	100		
156	60.4	57.9	107.5
158	58.5	55.7	103.5

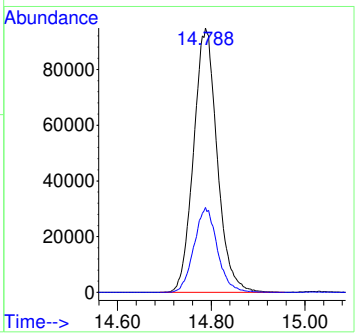


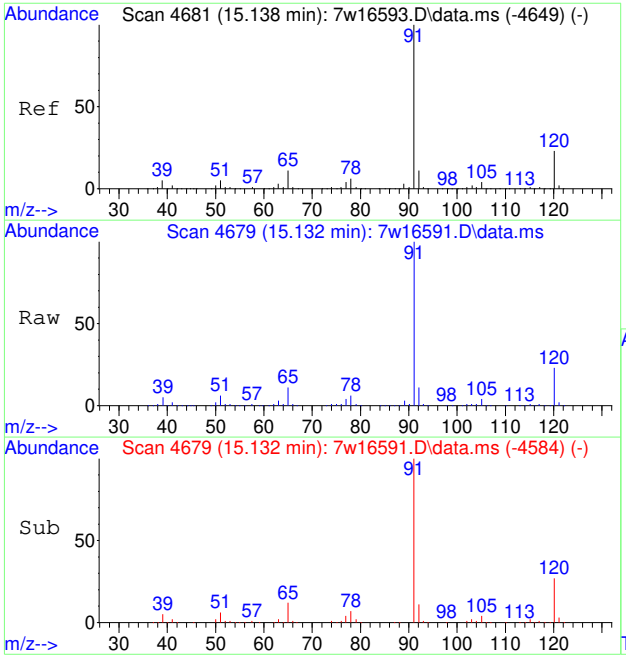


#90
2-CHLOROTOLUENE
Concen: 19.42 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:126 Resp: 331208

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.7	42.1

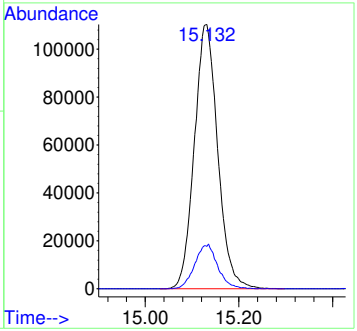


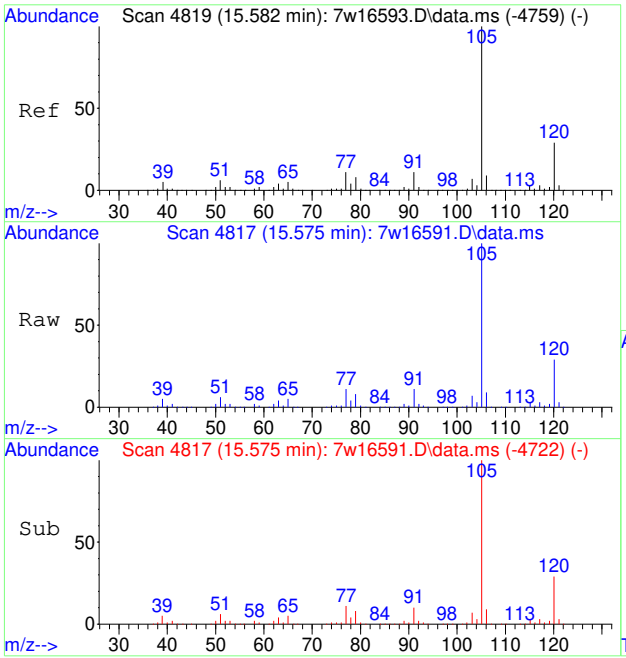


#91
N-PROPYLBENZENE
Concen: 19.58 PPBV
RT: 15.132 min Scan# 4679
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 382520

Ion	Ratio	Lower	Upper
120	100		
105	16.6	10.6	19.6

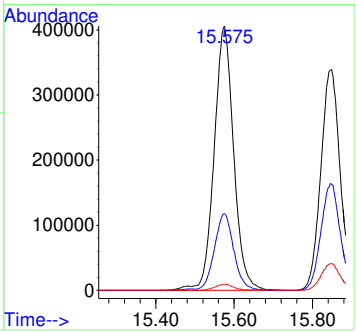


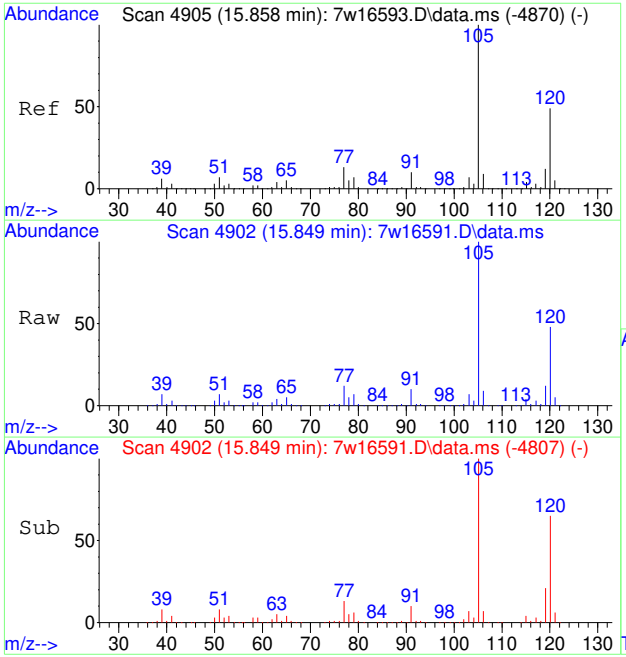


#92
4-ETHYLTOLUENE
Concen: 19.94 PPBV
RT: 15.575 min Scan# 4817
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1412222

Ion	Ratio	Lower	Upper
105	100		
120	29.2	21.8	40.4
119	2.2	1.7	3.1

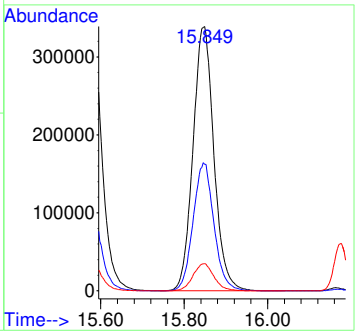


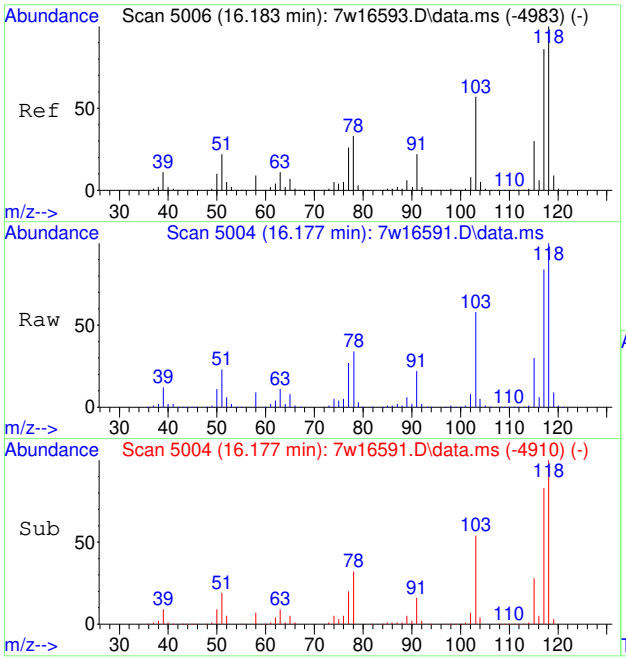


#93
1,3,5-TRIMETHYLBENZENE
Concen: 19.94 PPBV
RT: 15.849 min Scan# 4902
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1177558

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.4	7.5	13.9

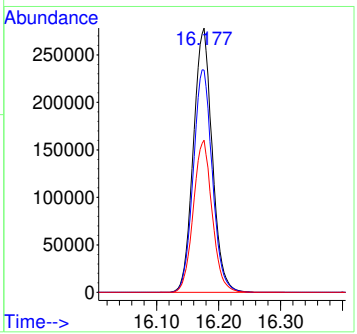


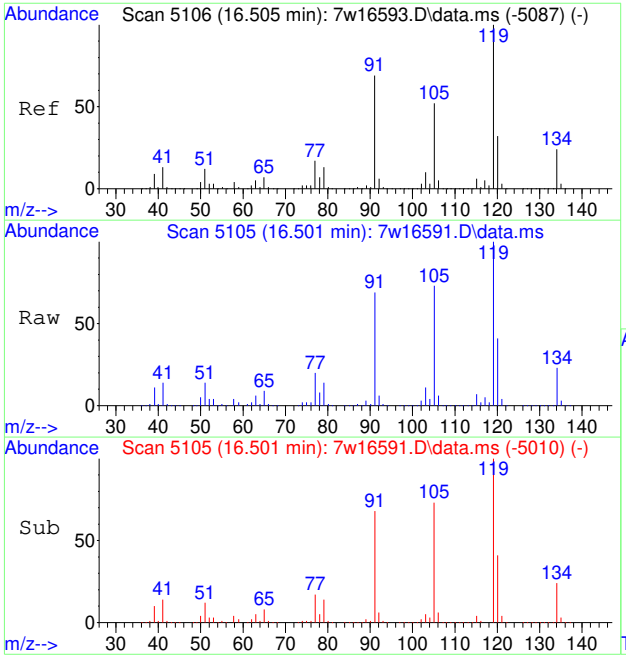


#94
ALPHA-METHYLSTYRENE
Concen: 19.51 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:118 Resp: 587843

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	57.5	36.2	67.2

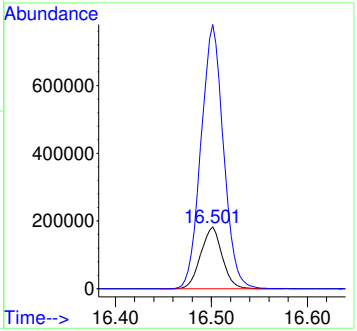


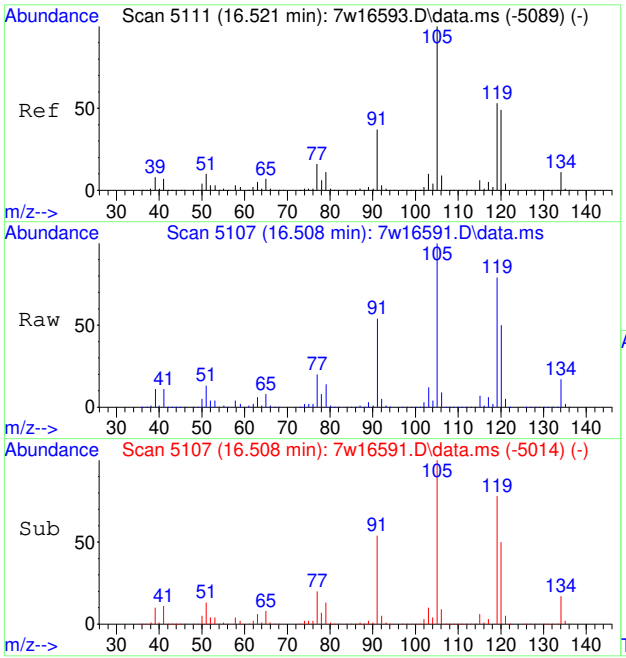


#95
TERT-BUTYLBENZENE
Concen: 19.96 PPBV
RT: 16.501 min Scan# 5105
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 284215

Ion	Ratio	Lower	Upper
134	100		
119	447.3	307.9	571.7

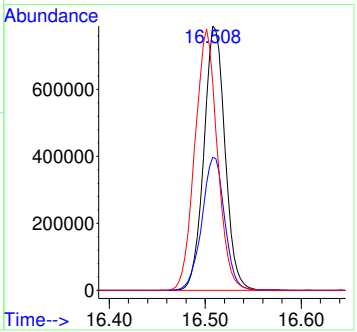


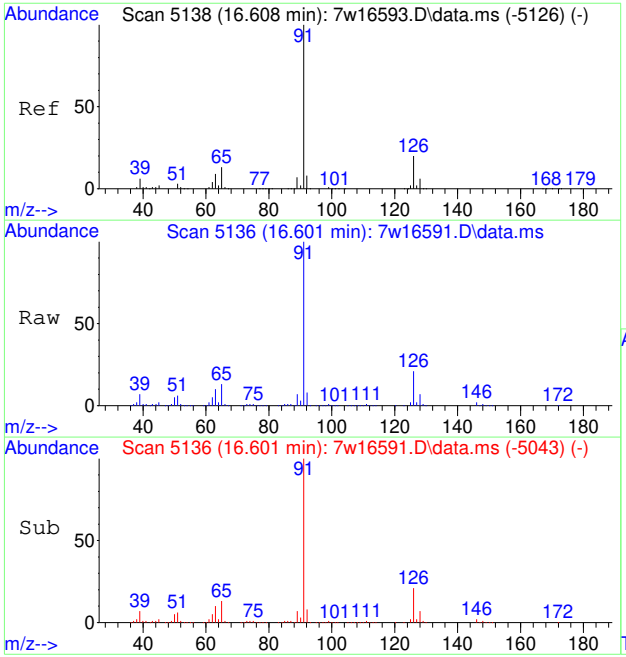


#96
1,2,4-TRIMETHYLBENZENE
Concen: 20.20 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1206100

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	105.4	78.0	144.8

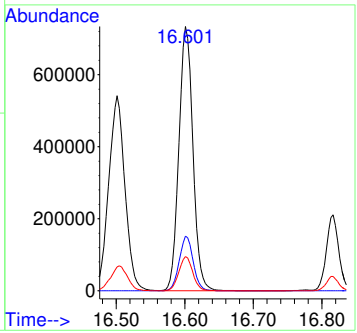


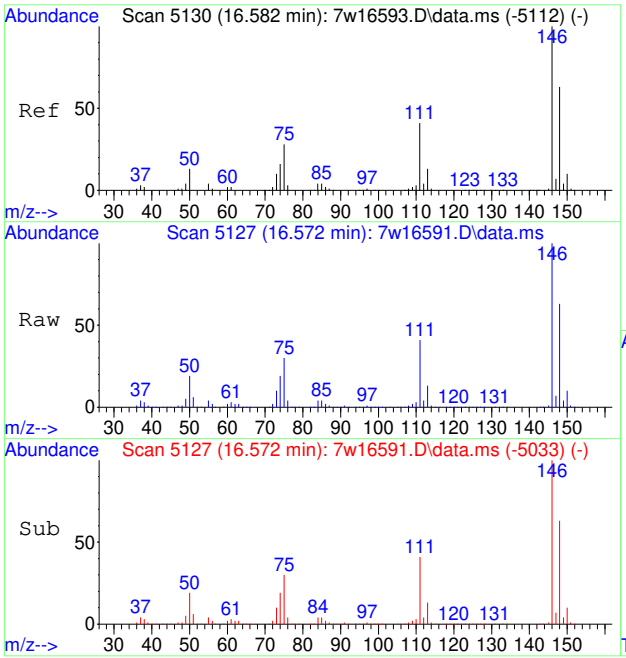


#97
BENZYL CHLORIDE
Concen: 20.31 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1043995

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	12.9	7.3	13.7

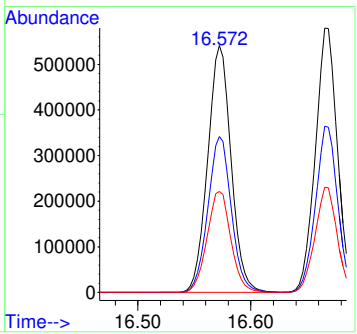


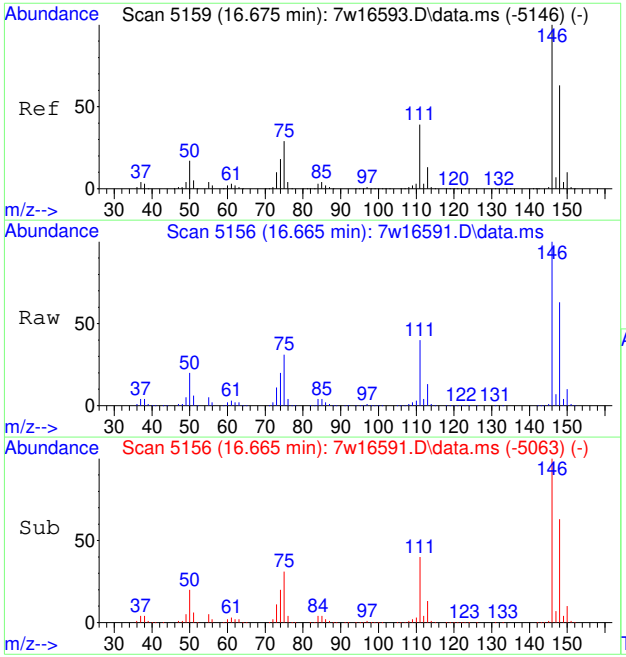


#98
M-DICHLOROBENZENE
Concen: 19.50 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 777553

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	41.5	25.4	47.2

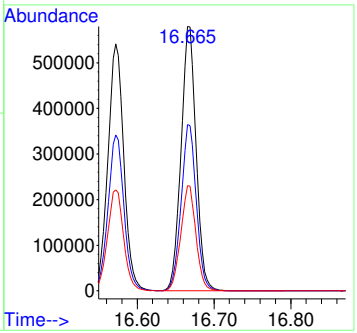


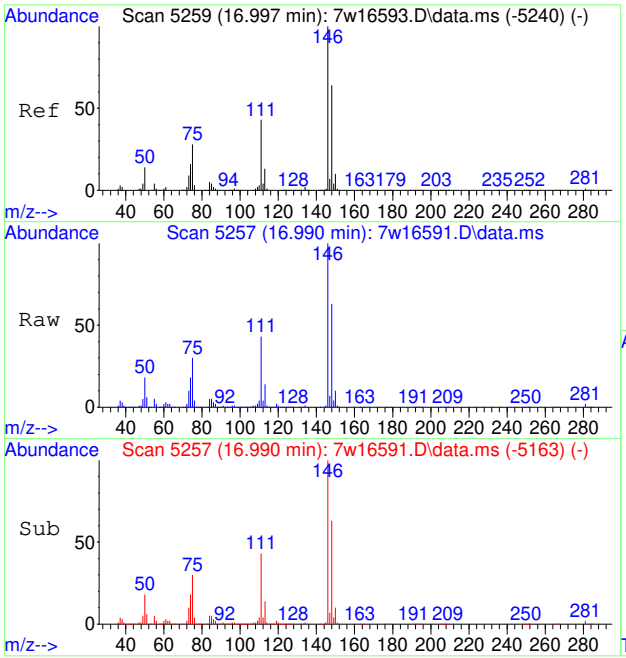


#99
P-DICHLOROBENZENE
Concen: 20.08 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 788870

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	39.8	24.8	46.1

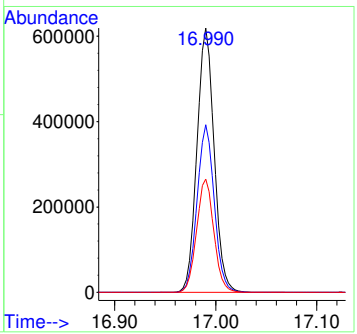


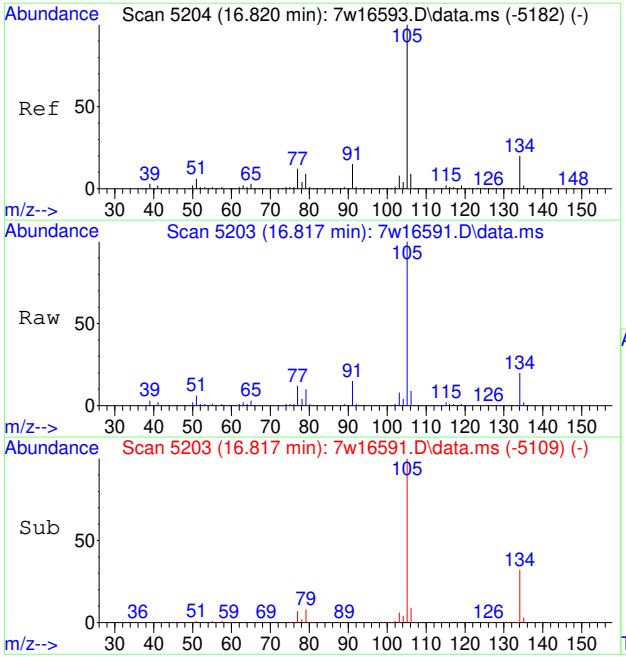


#100
O-DICHLOROBENZENE
Concen: 19.81 PPBV
RT: 16.990 min Scan# 5257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 731265

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	43.1	26.9	50.1

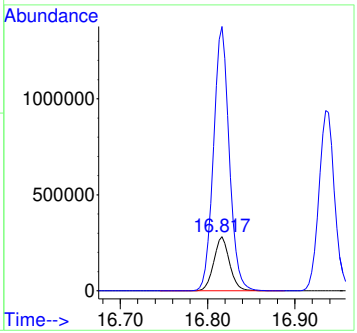


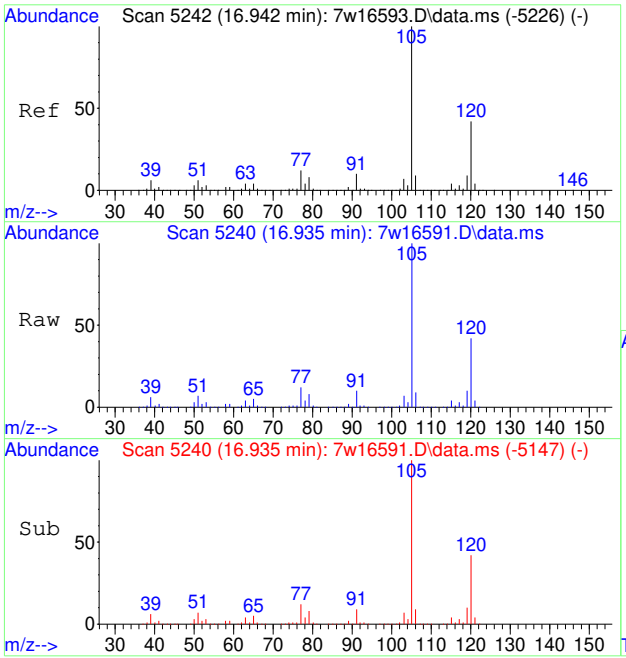


#101
SEC-BUTYLBENZENE
Concen: 20.47 PPBV
RT: 16.817 min Scan# 5203
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 351357

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

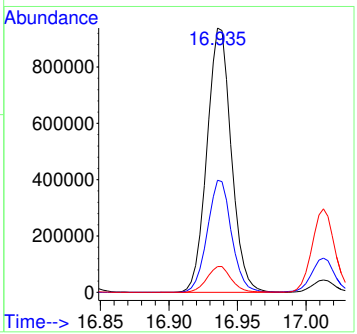


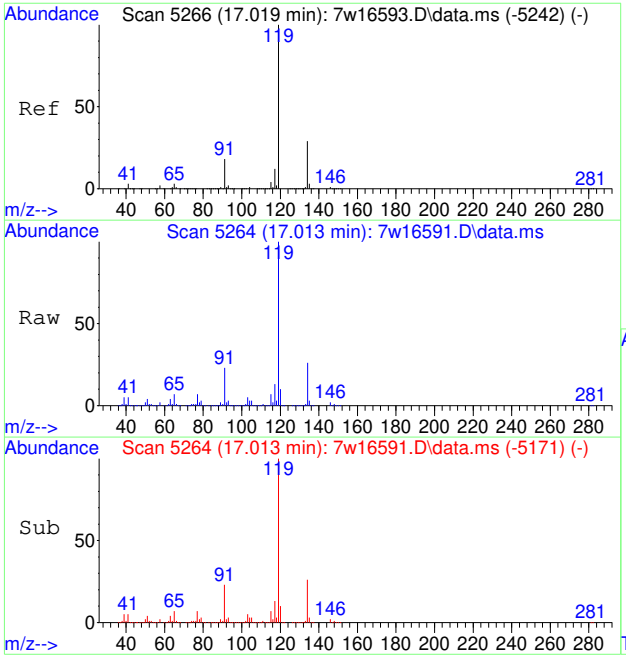


#102
1,2,3-TRIMETHYLBENZENE
Concen: 19.79 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1159850

Ion	Ratio	Lower	Upper
105	100		
120	42.2	31.9	59.2
91	9.9	7.3	13.5

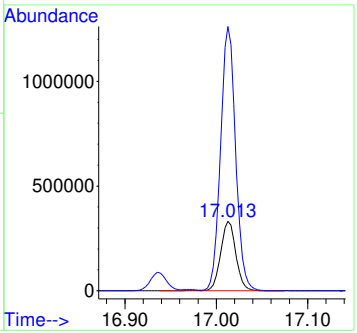


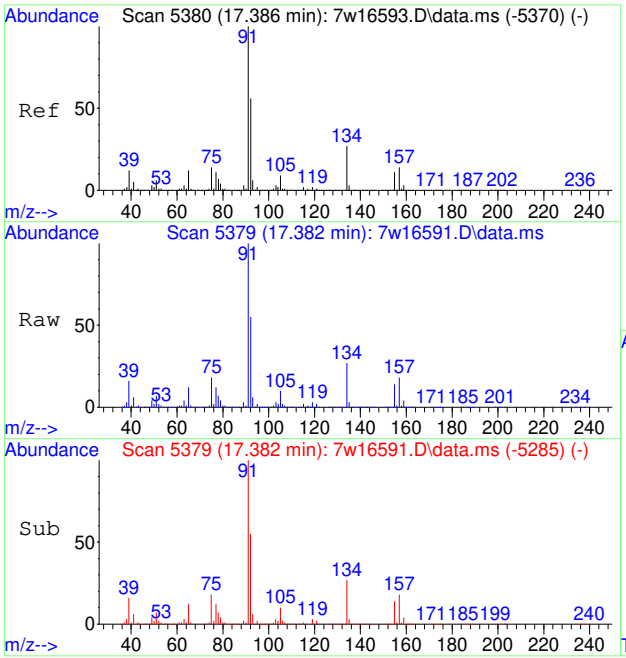


#103
P-ISOPROPYLTOLUENE
Concen: 19.97 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 385467

Ion	Ratio	Lower	Upper
134	100		
119	375.6	253.7	471.3

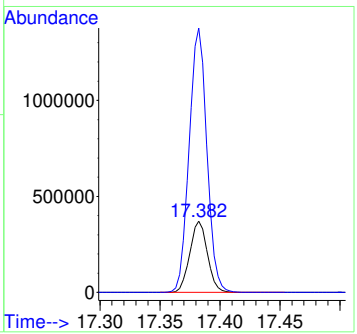


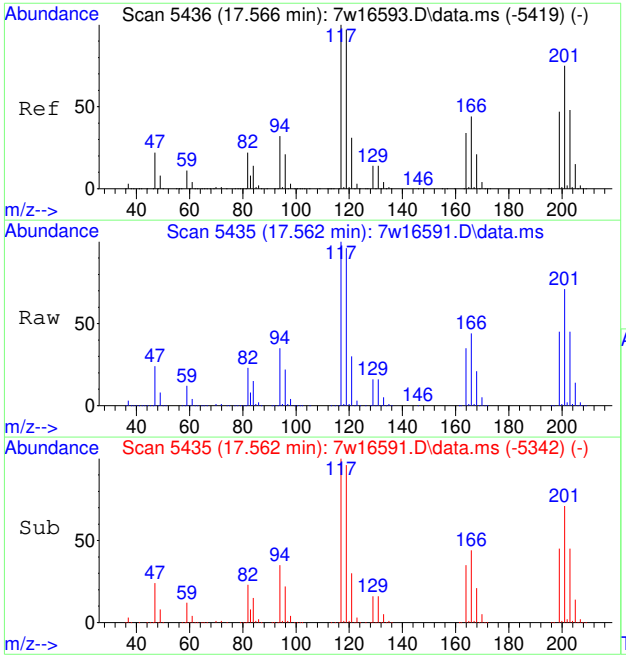


#104
N-BUTYLBENZENE
Concen: 20.40 PPBV
RT: 17.382 min Scan# 5379
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 378596

Ion	Ratio	Lower	Upper
134	100		
91	373.4	231.1	429.1

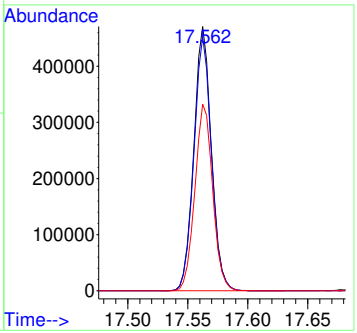


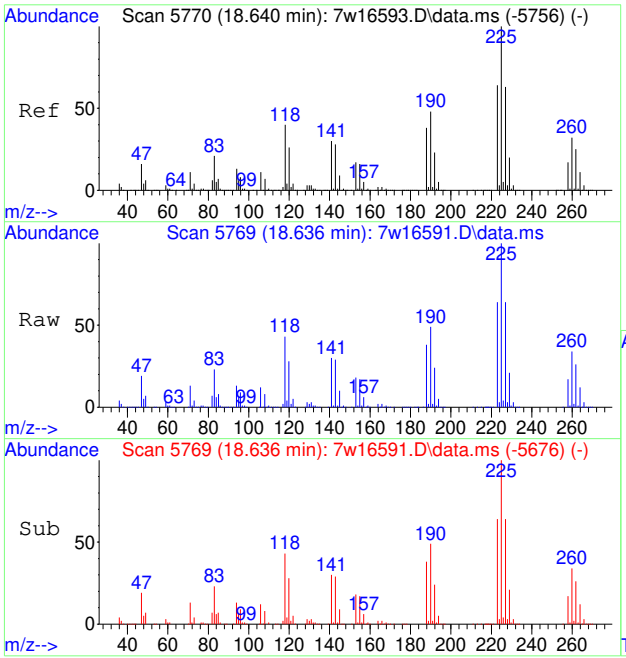


#105
HEXACHLOROETHANE
Concen: 20.73 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 477608

Ion	Ratio	Lower	Upper
117	100		
119	96.1	68.3	126.9
201	71.6	45.9	85.3

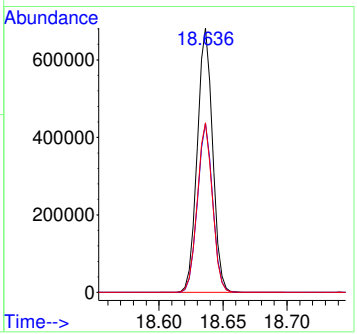


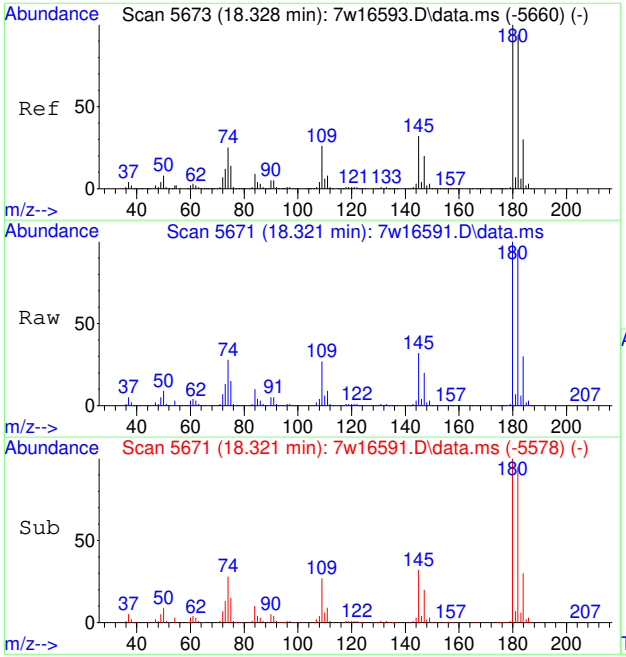


#106
HEXACHLOROBUTADIENE
Concen: 22.43 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:225 Resp: 568005

Ion	Ratio	Lower	Upper
225	100		
227	63.2	44.4	82.5
223	63.2	44.7	83.1

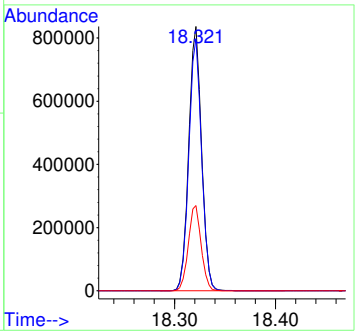


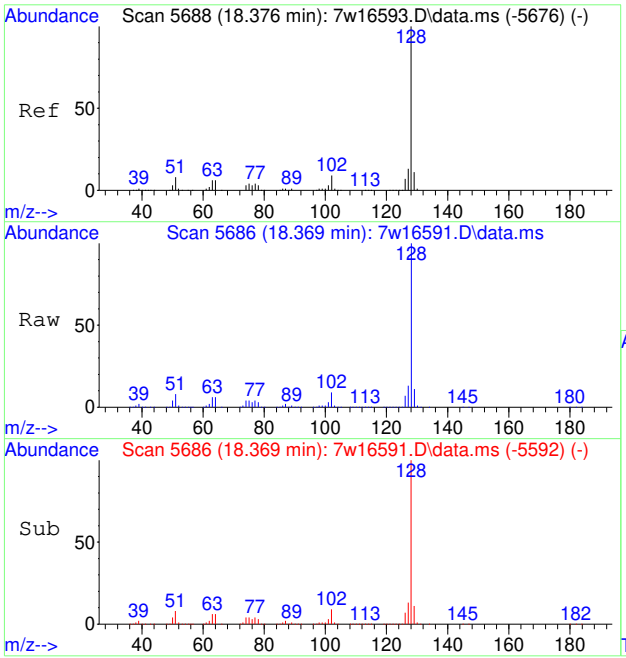


#107
1,2,4-TRICHLOROBENZENE
Concen: 22.61 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:180 Resp: 737709

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.4	23.1	42.9

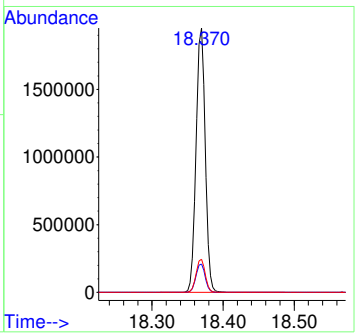


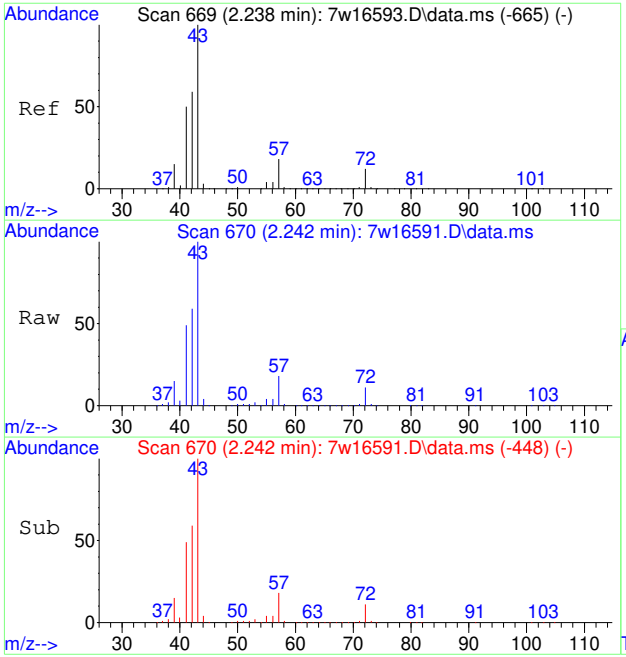


#108
NAPHTHALENE
Concen: 22.94 PPBV
RT: 18.369 min Scan# 5686
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:128 Resp: 1742340

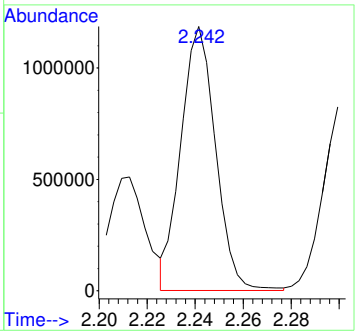
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.3	13.7
127	12.5	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 19.68 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:TIC Resp: 1188767



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16591.D
Injection Time: 08/07/25 13:47

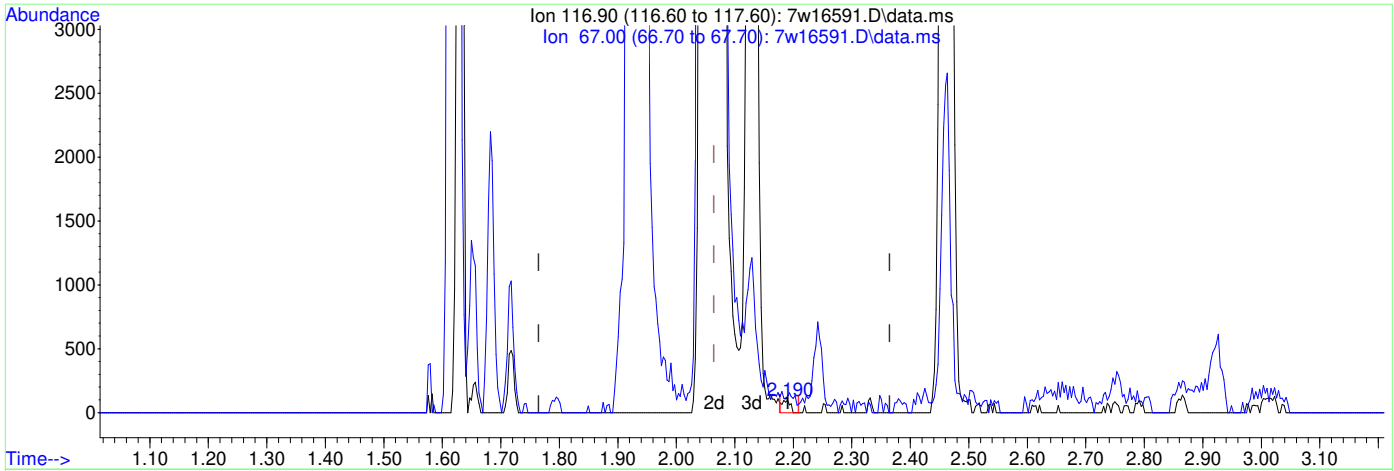
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

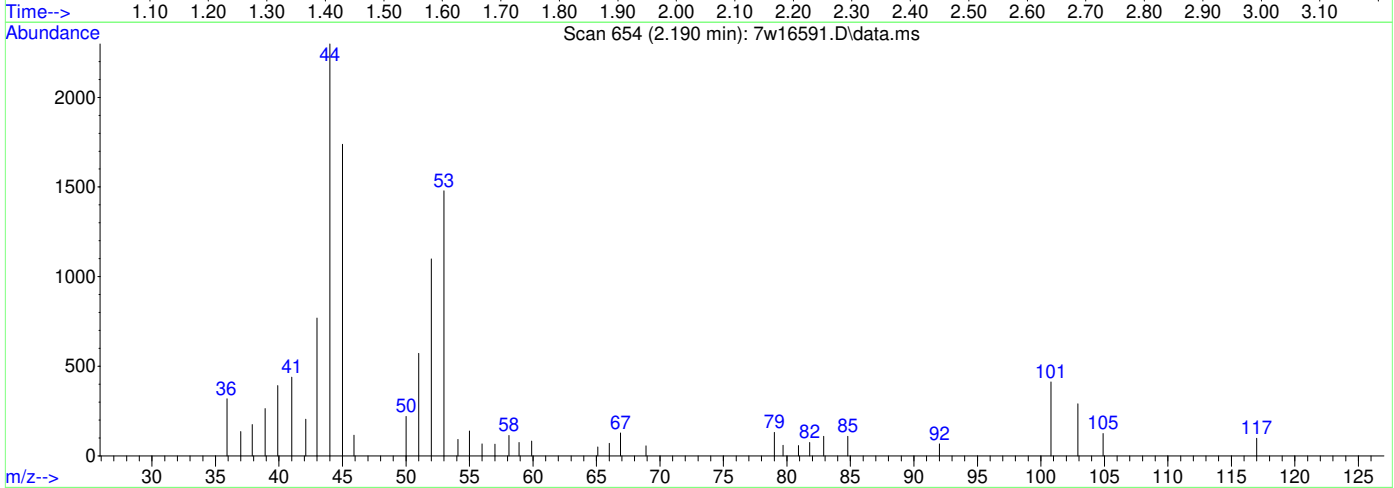
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Freon 123A	354-23-4		2.06	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.190min (+0.125) 0.01PPBV

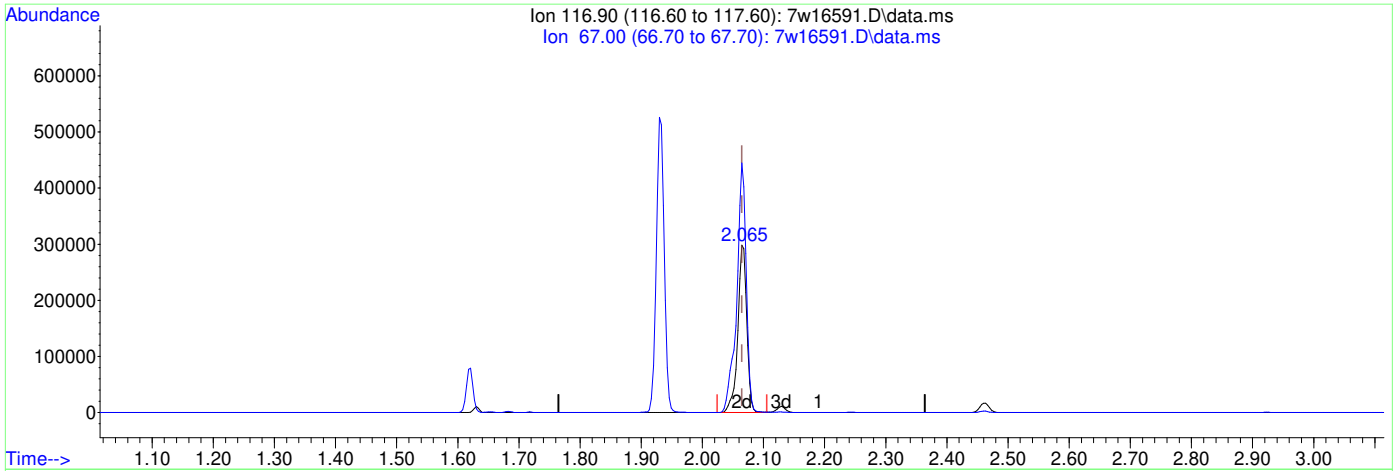
response 91

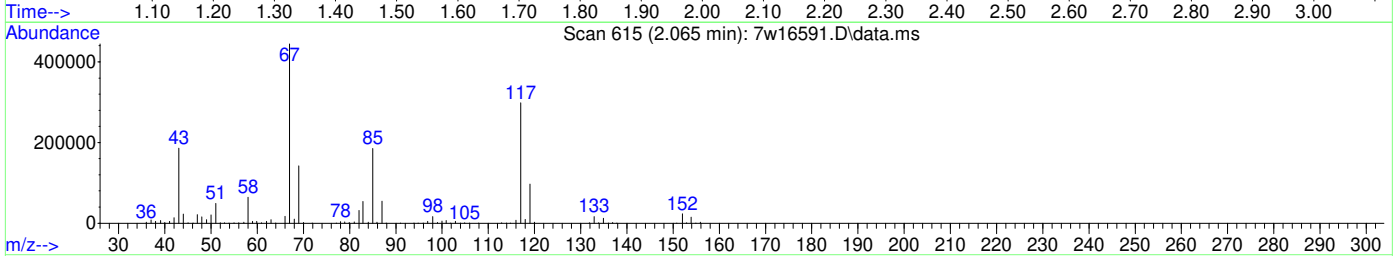
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	87.91
0.00	0.00	0.00
0.00	0.00	0.00

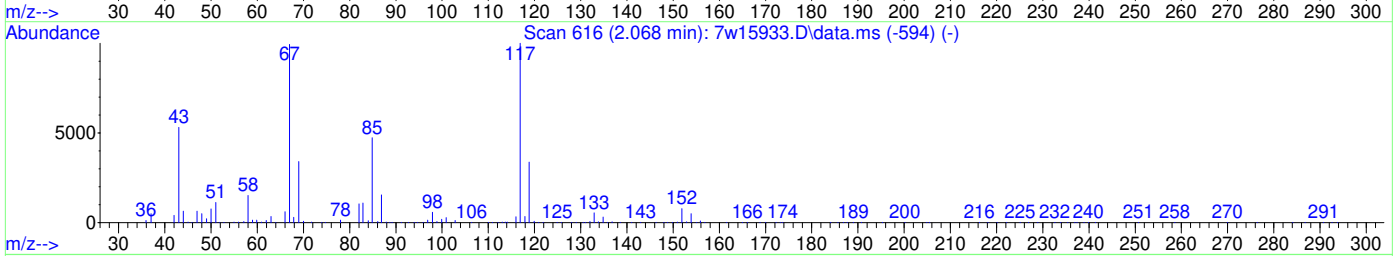
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.065min (+0.000) 19.66PPBV m

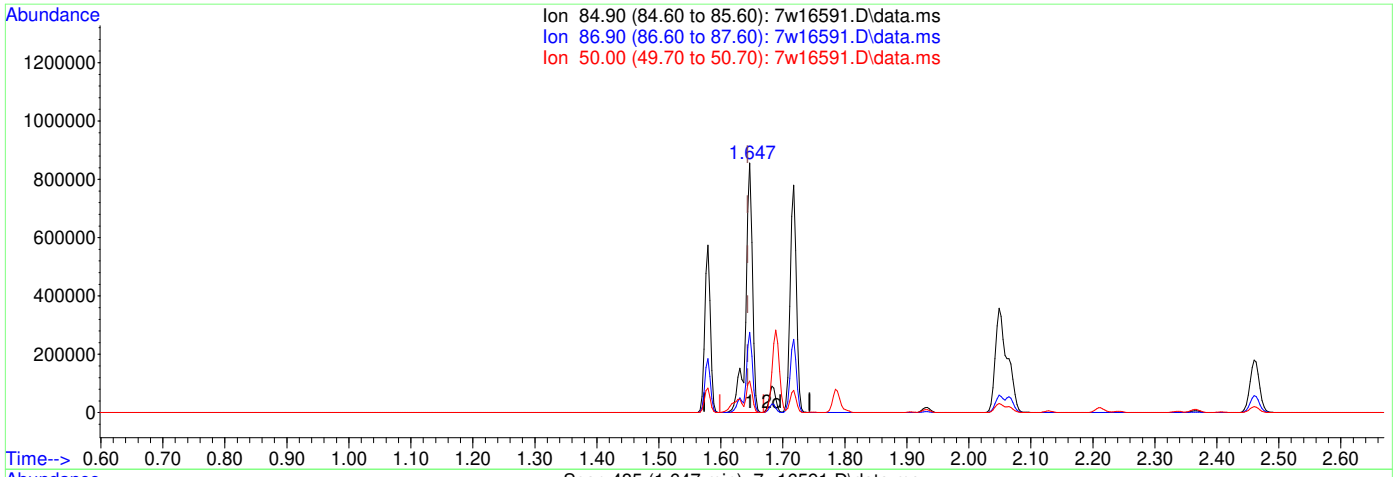
response 305527

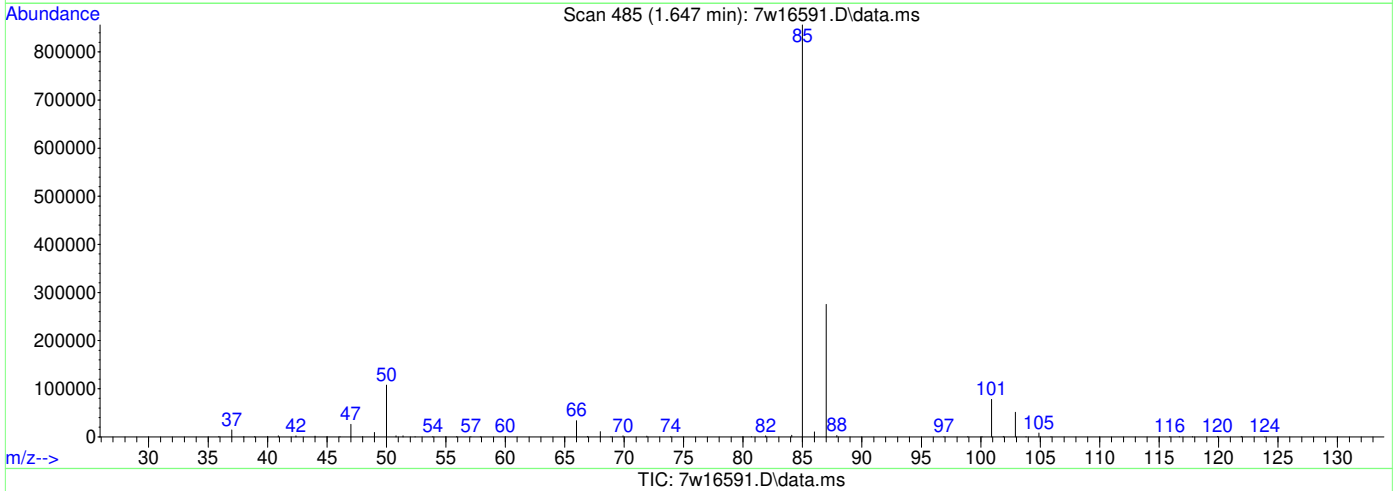
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	0.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 19.70PPBV

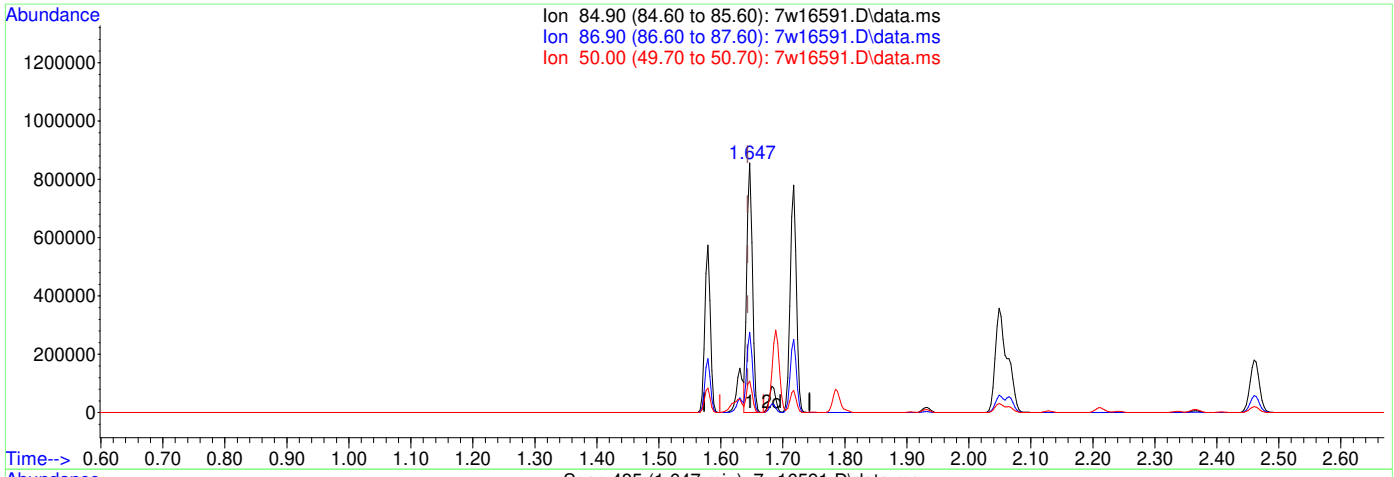
response 644952

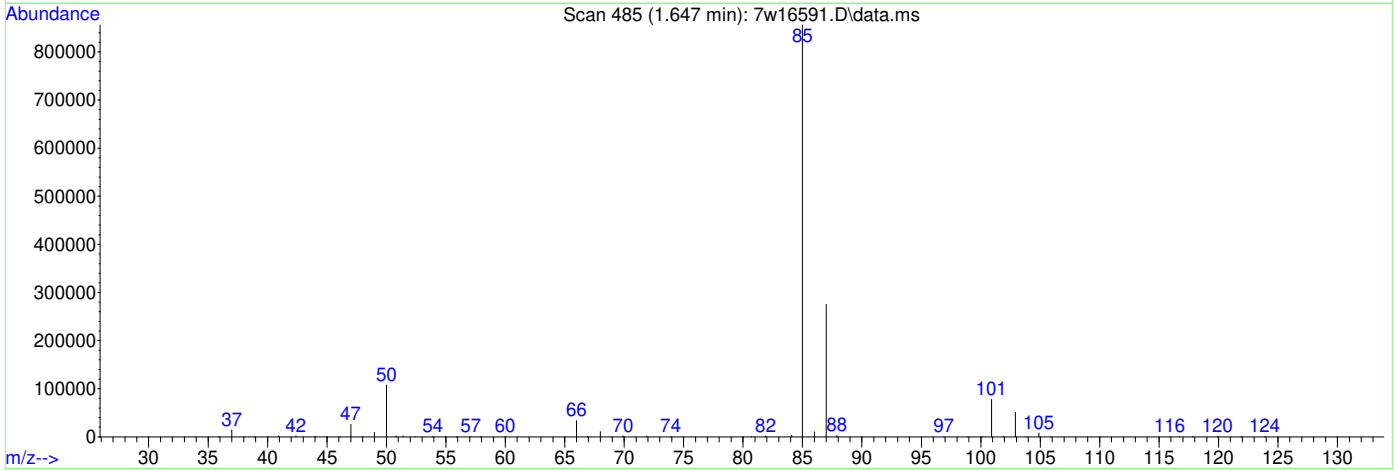
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.48
50.00	17.30	19.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 16.21PPBV m

response 530689

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.48
50.00	17.30	23.23#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109851	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	546669	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	501897	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109805	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	410954	10.23	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	264206	37.90	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	119359	39.64	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.627	116	590023	41.37	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	1043482m	33.07	PPBV		
7) PROPYLENE	1.627	41	337148	36.84	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	920580	38.25	PPBV		99
9) FREON 114	1.714	85	1067029	38.99	PPBV		99
10) CHLOROMETHANE	1.685	52	141787	36.20	PPBV		95
11) VINYL CHLORIDE	1.746	62	502517	36.90	PPBV		99
12) 1,3-BUTADIENE	1.785	54	386481	35.40	PPBV		98
13) N-BUTANE	1.798	43	676218	36.22	PPBV		99
14) BROMOMETHANE	1.859	94	380493	35.73	PPBV		99
15) CHLOROETHANE	1.904	64	257541	34.46	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	910295	35.30	PPBV		100
17) ACETONITRILE	1.994	41	384504	28.62	PPBV		100
18) ACROLEIN	2.033	56	220730	35.64	PPBV		99
19) FREON 123	2.049	83	996862	38.68	PPBV		100
20) FREON 123A	2.065	117	586604	38.26	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1049426	35.69	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	888452	34.78	PPBV		100
23) ACETONE	2.071	58	248365	35.92	PPBV		96
24) PENTANE	2.238	42	472130	34.15	PPBV		100
25) IODOMETHANE	2.299	142	1038259	38.79	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	419658	37.54	PPBV		98
27) CARBON DISULFIDE	2.463	76	1201974	37.99	PPBV		97
28) ETHANOL	1.930	45	213512	31.01	PPBV		100
29) BROMOETHENE	2.004	106	389718	36.91	PPBV		100
30) ACRYLONITRILE	2.209	52	360634	37.39	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	378529	33.80	PPBV		95
32) 3-CHLOROPROPENE	2.406	76	219238	36.95	PPBV		95
33) FREON 113	2.460	151	643045	38.50	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	441405	35.87	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.335	59	985604	31.02	PPBV		100
36) METHYL TERTIARY BUTYL ...	2.791	73	1301474	37.36	PPBV		100
37) TETRAHYDROFURAN	3.463	72	204769	36.97	PPBV		98
38) HEXANE	3.242	57	870000	36.93	PPBV		97
39) VINYL ACETATE	2.830	86	130550	40.25	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	876273	37.13	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	232500	36.08	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	476500	37.74	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	251965	37.93	PPBV		92
44) ETHYL ACETATE	3.251	61	179704	40.87	PPBV		88
45) METHYL ACRYLATE	3.238	55	1081547	38.25	PPBV	#	100
46) CHLOROFORM	3.264	83	920953	37.55	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	1014851	38.86	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.824	97	979950	38.31	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1037151	39.82	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	713561	37.86	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.129	78	1384237	36.79	PPBV		99
53)	CYCLOHEXANE	4.335	84	620038	38.40	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.586	71	325381	40.82	PPBV		100
55)	TRICHLOROETHENE	5.016	95	627429	36.24	PPBV		100
56)	1,2-DICHLOROPROPANE	4.785	63	583236	38.36	PPBV		100
57)	DIBROMOMETHANE	4.746	174	542289	36.49	PPBV		99
58)	ETHYL ACRYLATE	4.904	55	1354109	40.04	PPBV		100
59)	BROMODICHLOROMETHANE	4.965	83	1056193	38.42	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	2697169	35.45	PPBV		100
61)	1,4-DIOXANE	5.023	88	307098m	38.33	PPBV		
62)	HEPTANE	5.422	43	919337	36.76	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	535566	38.93	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.042	58	535813	35.65	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	931150	41.03	PPBV		98
66)	TOLUENE	7.135	91	1737506	39.79	PPBV		100
67)	1,3-DICHLOROPROPANE	7.196	76	888887	40.85	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	837419	41.75	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.769	83	506821	41.21	PPBV		99
70)	2-HEXANONE	7.698	58	721391	33.68	PPBV		98
71)	ETHYL METHACRYLATE	7.836	69	919855	40.41	PPBV		97
72)	TETRACHLOROETHENE	8.849	164	647021	40.75	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.666	129	1078202	44.36	PPBV		100
74)	1,2-DIBROMOETHANE	8.007	107	940297	41.96	PPBV		100
75)	OCTANE	9.000	43	1299991	39.19	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.064	131	780177	43.93	PPBV		100
78)	CHLOROBENZENE	10.052	112	1423127	41.32	PPBV		99
79)	ETHYLBENZENE	10.929	91	2363041	41.92	PPBV		100
80)	M,P-XYLENE	11.357	91	3630117	78.82	PPBV		99
81)	O-XYLENE	12.289	91	1842699	41.40	PPBV		98
82)	STYRENE	12.077	104	1452853	44.73	PPBV		99
83)	NONANE	13.412	43	1380586	39.45	PPBV		99
84)	BROMOFORM	11.167	173	961757	47.95	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	12.306	83	1339122	42.27	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.585	75	1047163	42.19	PPBV		100
88)	ISOPROPYLBENZENE	13.797	120	695388	41.27	PPBV		99
89)	BROMOBENZENE	13.666	77	1318537	40.55	PPBV		100
90)	2-CHLOROTOLUENE	14.794	126	639043	41.17	PPBV		100
91)	N-PROPYLBENZENE	15.135	120	740280	42.04	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	2747294	42.04	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.852	105	2286498	41.87	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.177	118	1155488	43.69	PPBV		100
95)	TERT-BUTYLBENZENE	16.505	134	554595	41.12	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.514	105	2336862	43.35	PPBV		100
97)	BENZYL CHLORIDE	16.608	91	2115310	52.85	PPBV		99
98)	M-DICHLOROBENZENE	16.575	146	1509487	40.35	PPBV		99
99)	P-DICHLOROBENZENE	16.672	146	1527061	41.45	PPBV		100
100)	O-DICHLOROBENZENE	16.993	146	1428015	41.29	PPBV		99
101)	SEC-BUTYLBENZENE	16.820	134	675130	42.40	PPBV		100
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2270987	41.87	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.016	134	742541	42.05	PPBV		100
104)	N-BUTYLBENZENE	17.386	134	743410	45.09	PPBV		99
105)	HEXACHLOROETHANE	17.566	117	951757	47.76	PPBV		99
106)	HEXACHLOROBUTADIENE	18.640	225	1162376	48.46	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.325	180	1534367	56.96	PPBV		99
108)	NAPHTHALENE	18.373	128	3606459	60.99	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	2205824	32.90	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

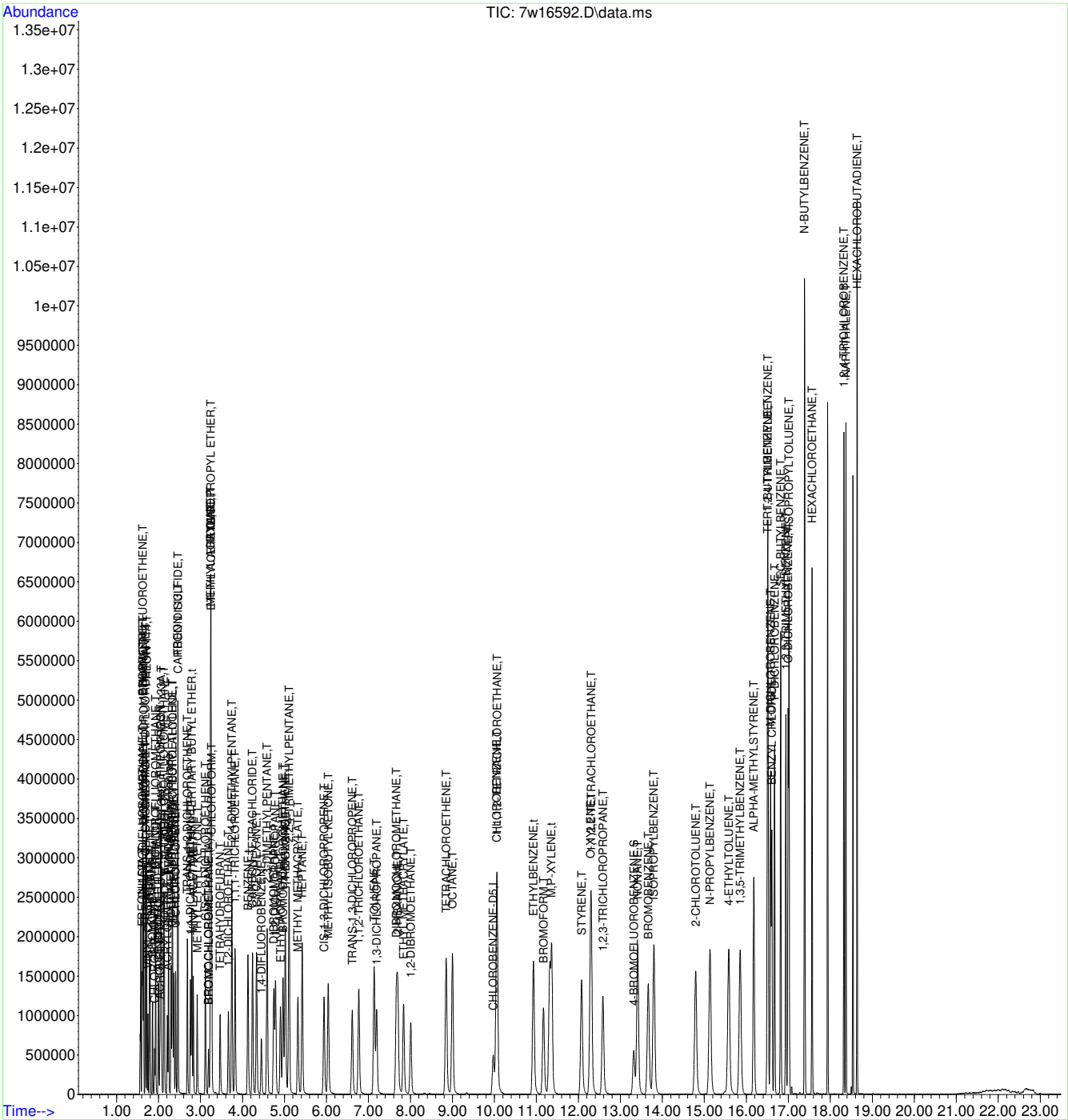
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

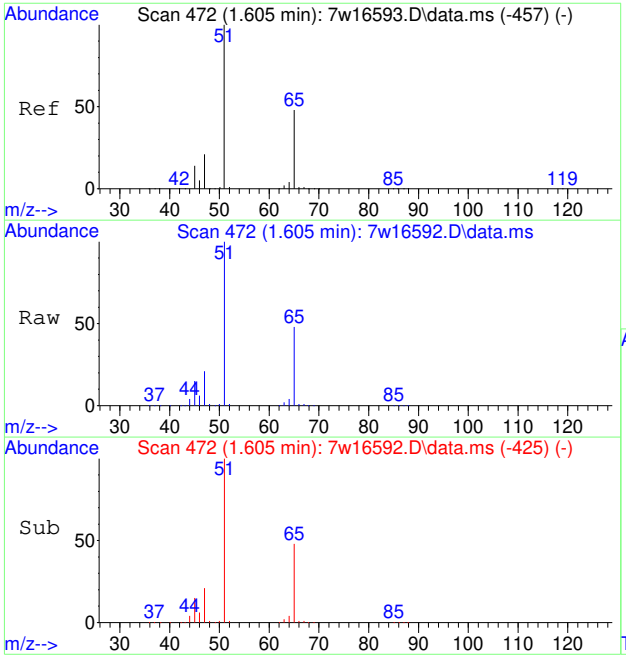
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

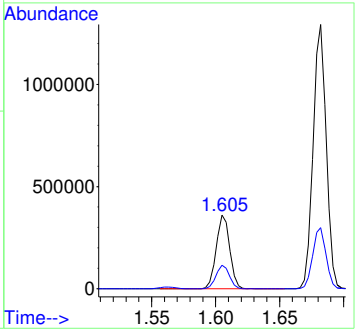


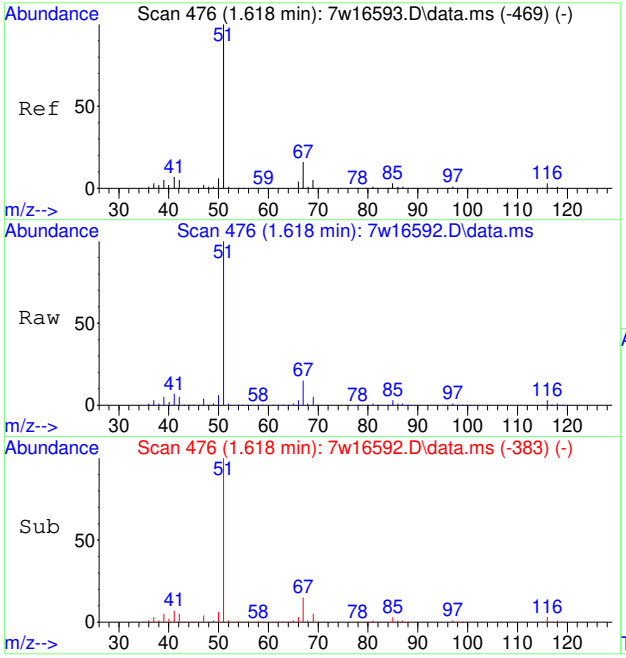


#3
FREON 152A
Concen: 37.90 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 264206

Ion	Ratio	Lower	Upper
65	100		
45	31.8	23.0	42.8

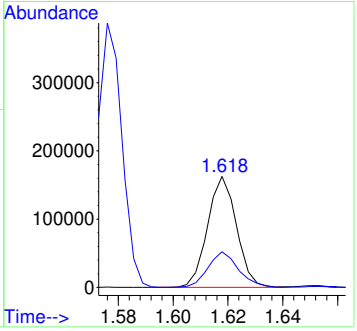


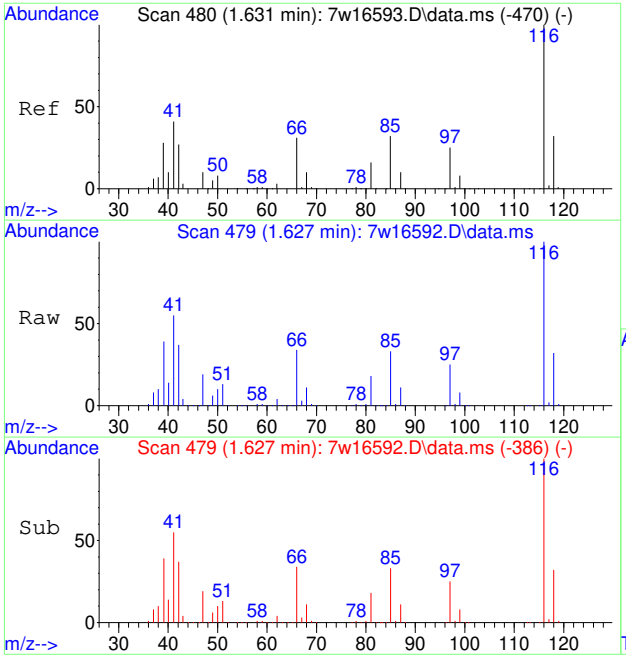


#4
CHLORODIFLUOROMETHANE
Concen: 39.64 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 119359

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

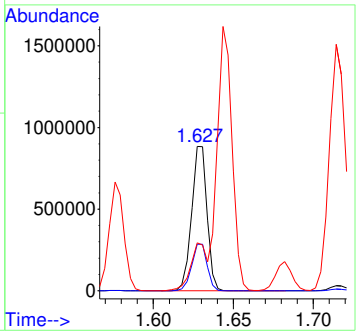


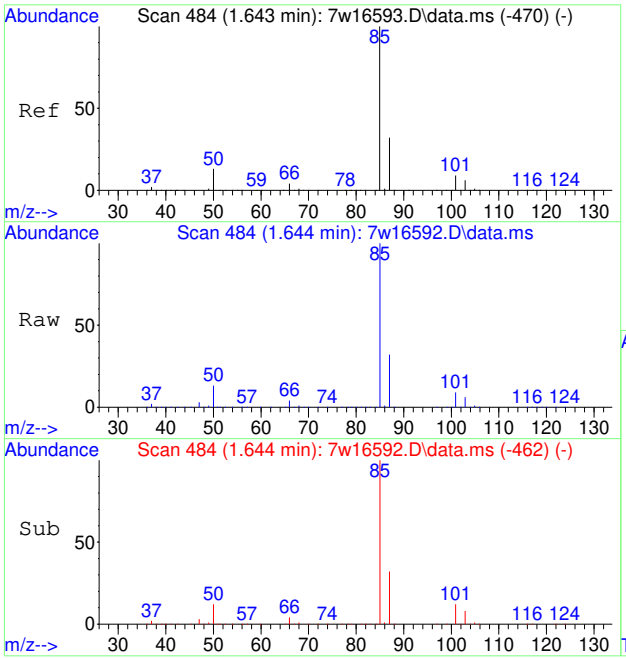


#5
CHLOROTRIFLUOROETHENE
Concen: 41.37 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:116 Resp: 590023

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.6	42.0
85	211.8	152.4	283.0

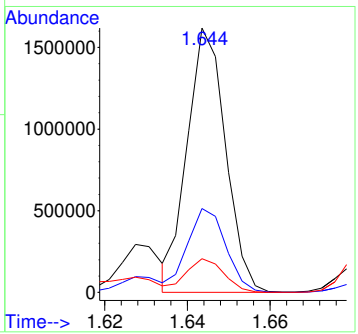


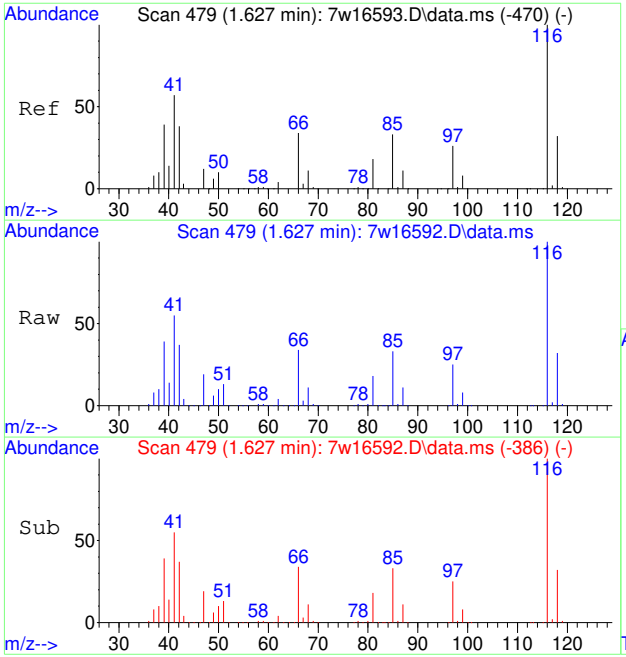


#6
DICHLORODIFLUOROMETHANE
Concen: 33.07 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1043482

Ion	Ratio	Lower	Upper
85	100		
87	38.5	23.0	42.6
50	22.4	13.5	25.1

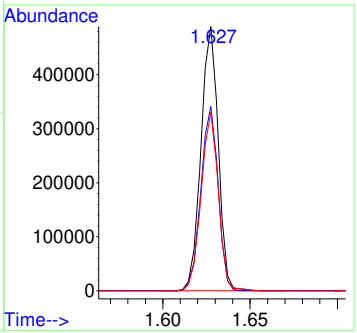


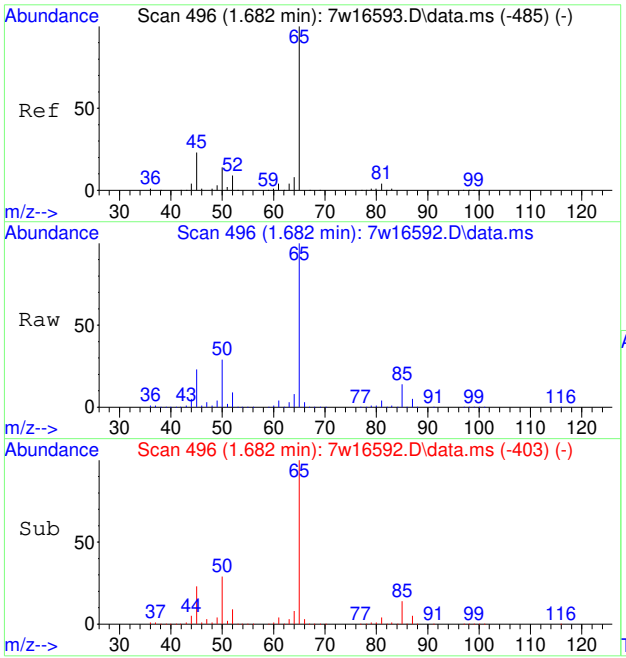


#7
PROPYLENE
Concen: 36.84 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 337148

Ion	Ratio	Lower	Upper
41	100		
39	69.6	50.5	93.7
42	66.9	47.0	87.4

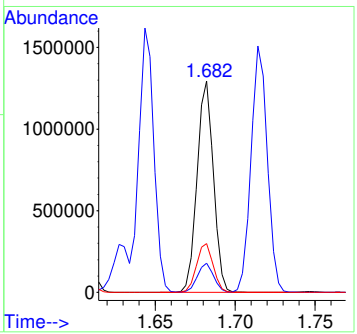


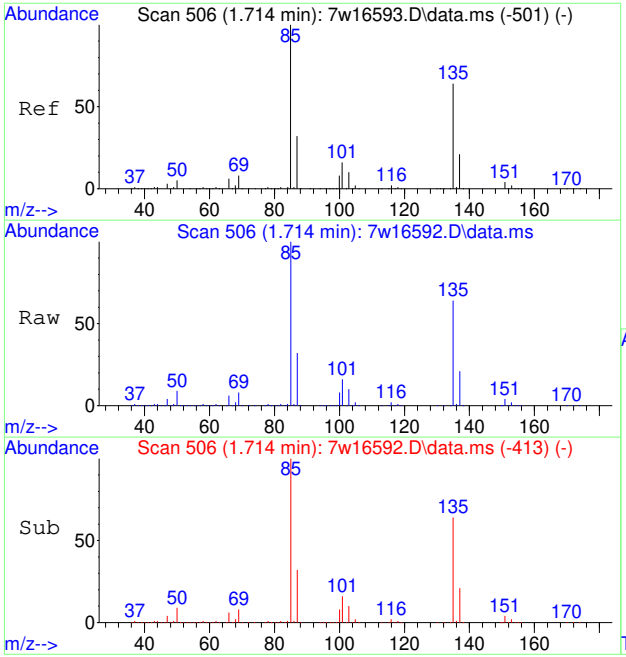


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 38.25 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 920580

Ion	Ratio	Lower	Upper
65	100		
85	13.7	9.4	17.4
45	23.4	16.9	31.3

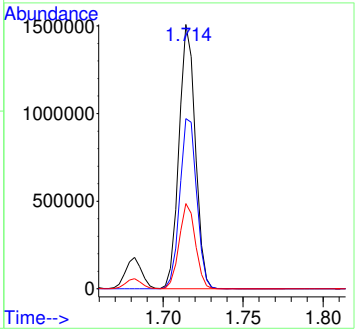


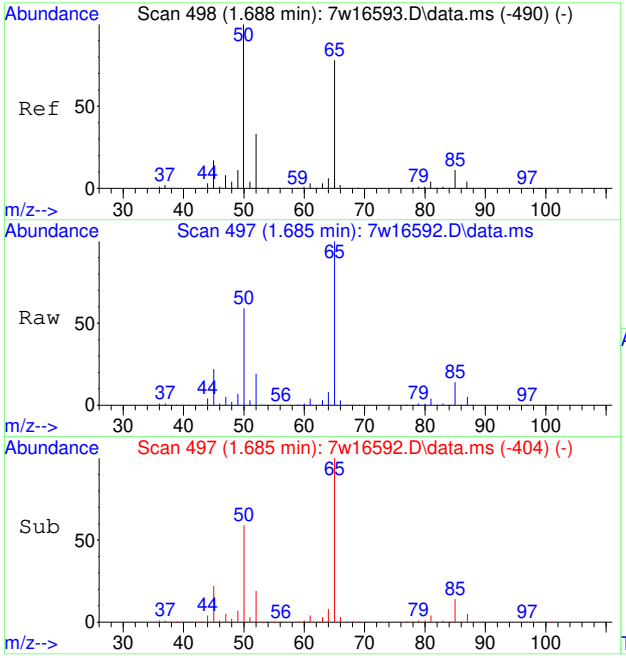


#9
FREON 114
Concen: 38.99 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1067029

Ion	Ratio	Lower	Upper
85	100		
135	66.8	46.1	85.7
87	32.1	22.6	42.0

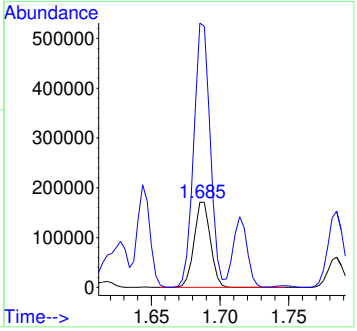


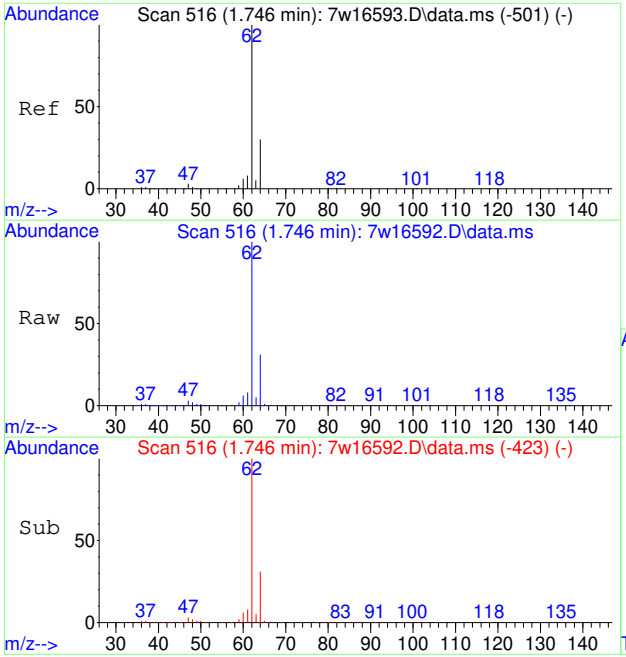


#10
CHLOROMETHANE
Concen: 36.20 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 141787

Ion	Ratio	Lower	Upper
52	100		
50	311.9	225.6	419.0

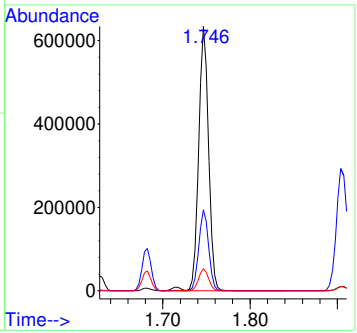


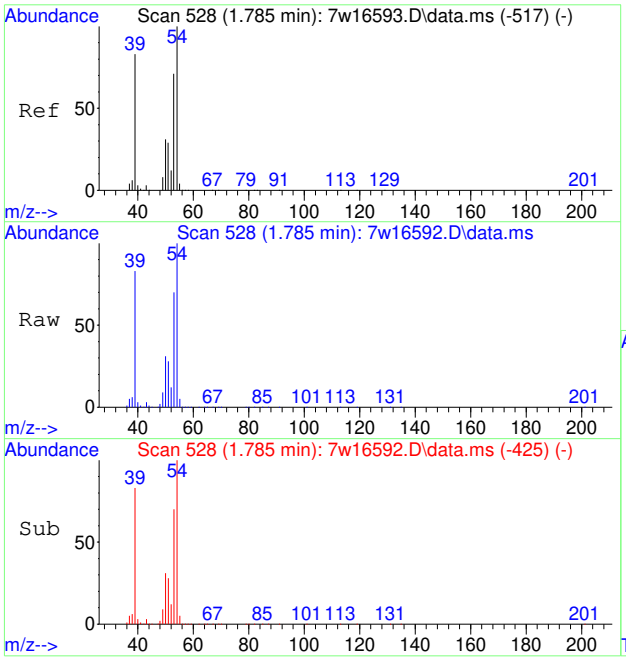


#11
VINYL CHLORIDE
Concen: 36.90 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 502517

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.3	5.7	10.5

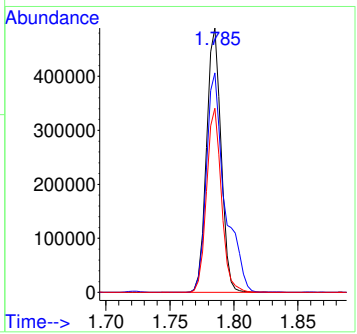


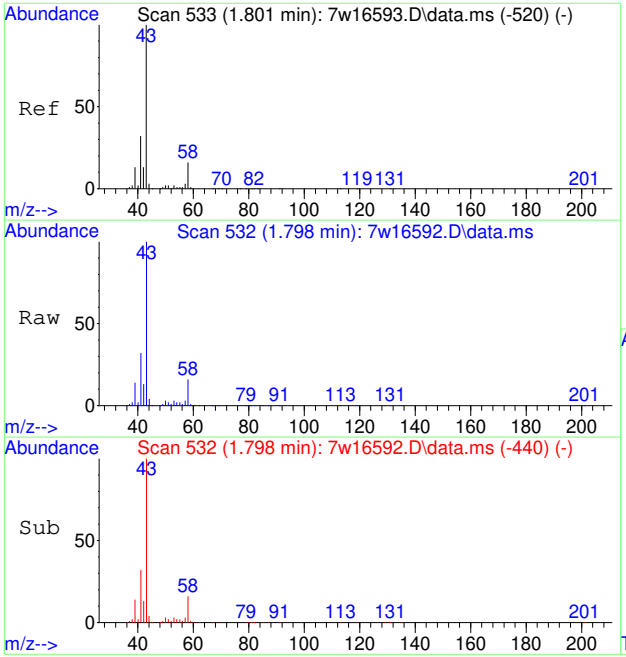


#12
1,3-BUTADIENE
Concen: 35.40 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 54 Resp: 386481

Ion	Ratio	Lower	Upper
54	100		
39	105.3	78.4	138.4
53	71.4	40.9	100.9

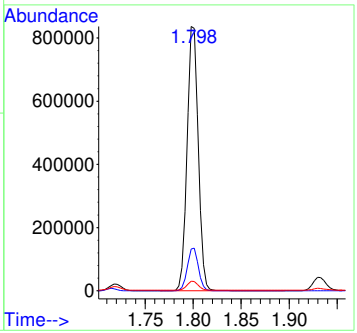


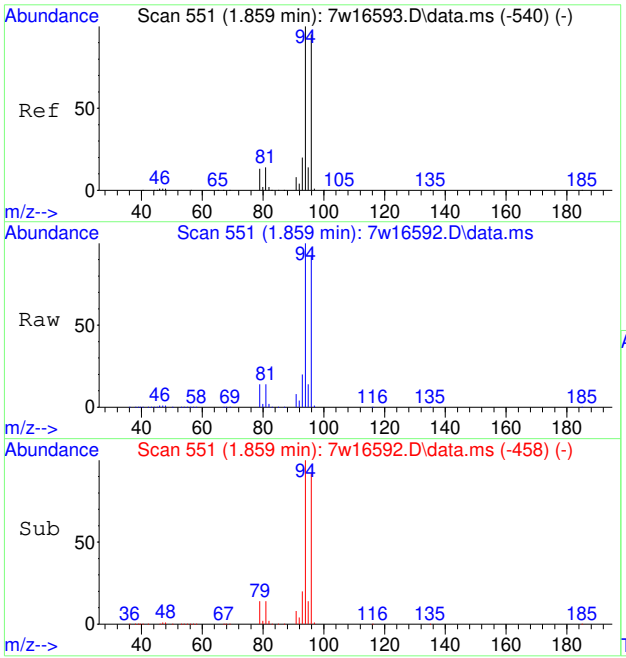


#13
N-BUTANE
Concen: 36.22 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 676218

Ion	Ratio	Lower	Upper
43	100		
58	16.0	11.0	20.4
44	3.5	2.6	4.8

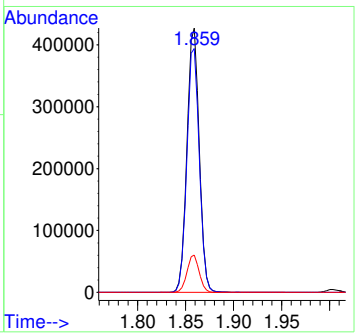


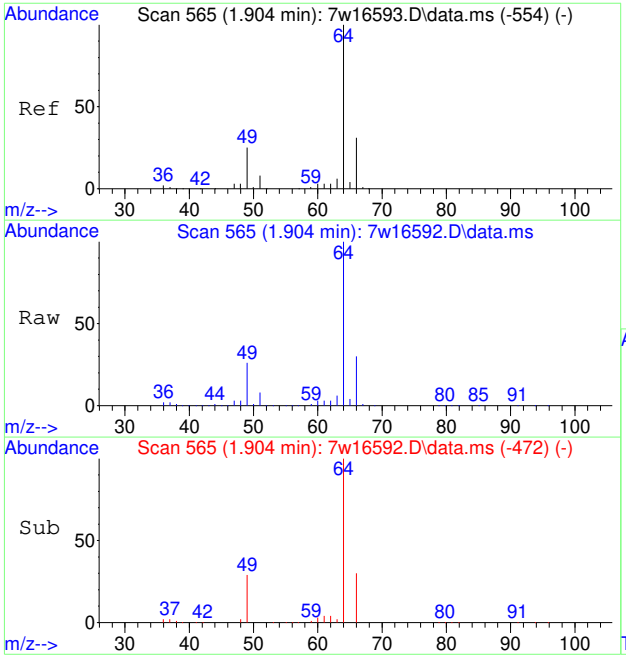


#14
BROMOMETHANE
Concen: 35.73 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 94 Resp: 380493

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	14.0	9.9	18.3

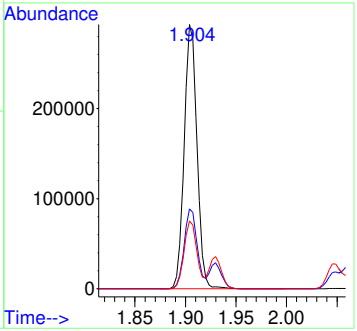


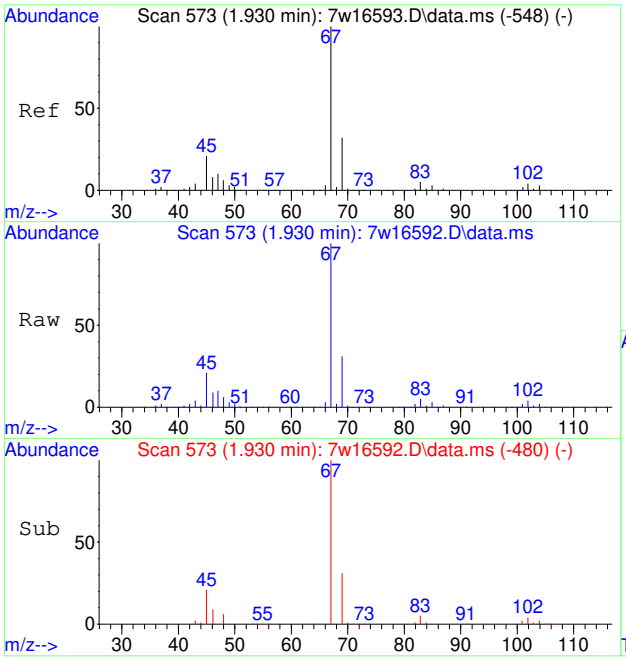


#15
CHLOROETHANE
Concen: 34.46 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 64 Resp: 257541

Ion	Ratio	Lower	Upper
64	100		
66	31.1	21.5	39.9
49	26.6	19.0	35.4

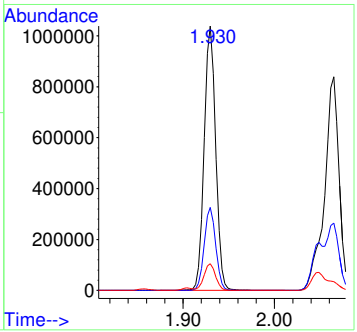


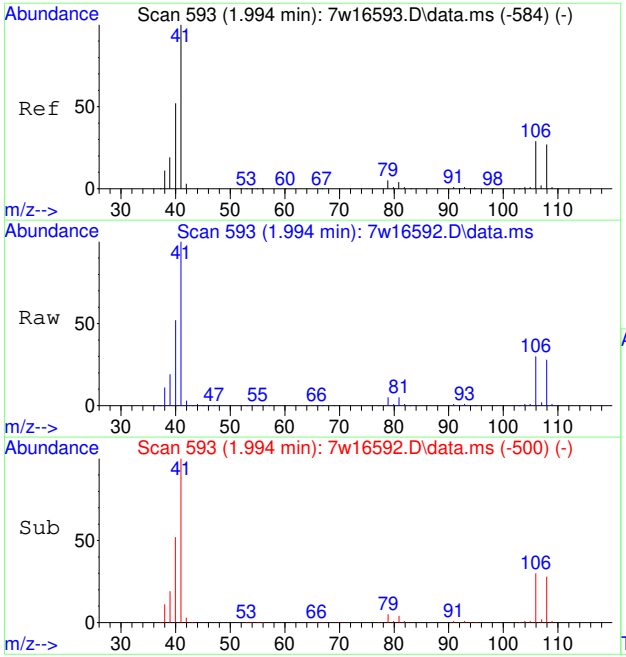


#16
DICHLOROFLUOROMETHANE
Concen: 35.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 910295

Ion	Ratio	Lower	Upper
67	100		
69	31.4	21.8	40.6
47	11.0	8.0	14.8

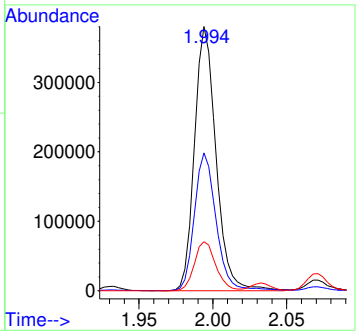


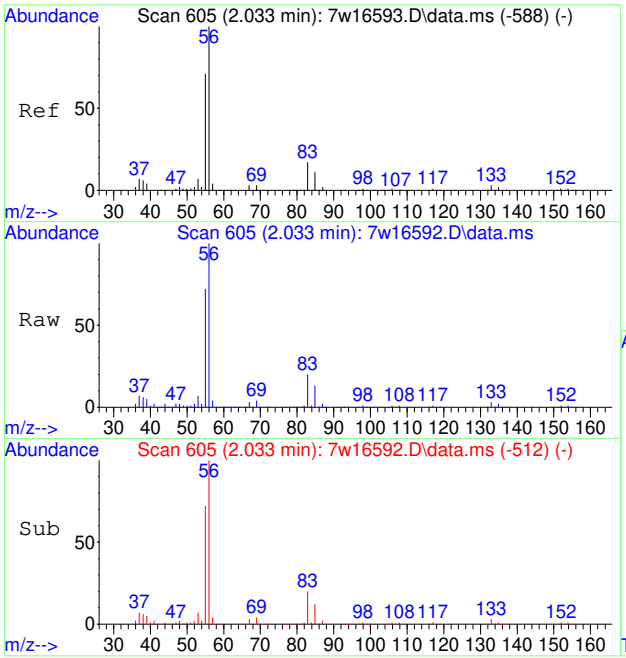


#17
ACETONITRILE
Concen: 28.62 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 384504

Ion	Ratio	Lower	Upper
41	100		
40	52.6	36.7	68.1
39	18.4	13.1	24.3

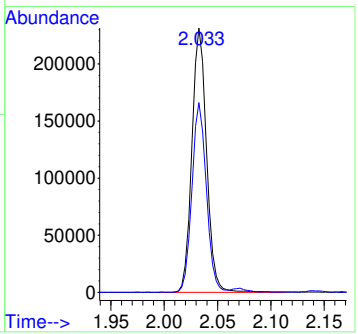


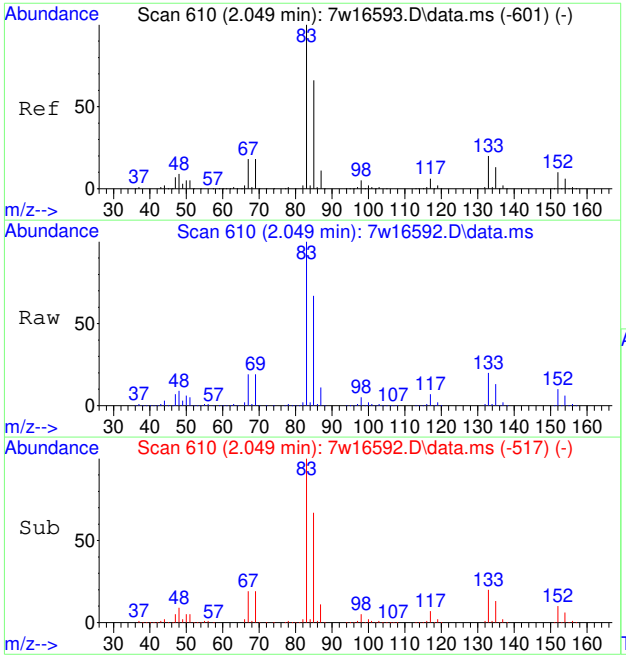


#18
ACROLEIN
Concen: 35.64 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 56 Resp: 220730

Ion	Ratio	Lower	Upper
56	100		
55	70.7	48.9	90.7

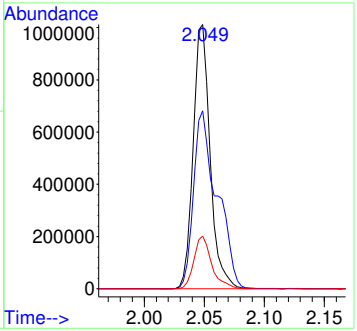


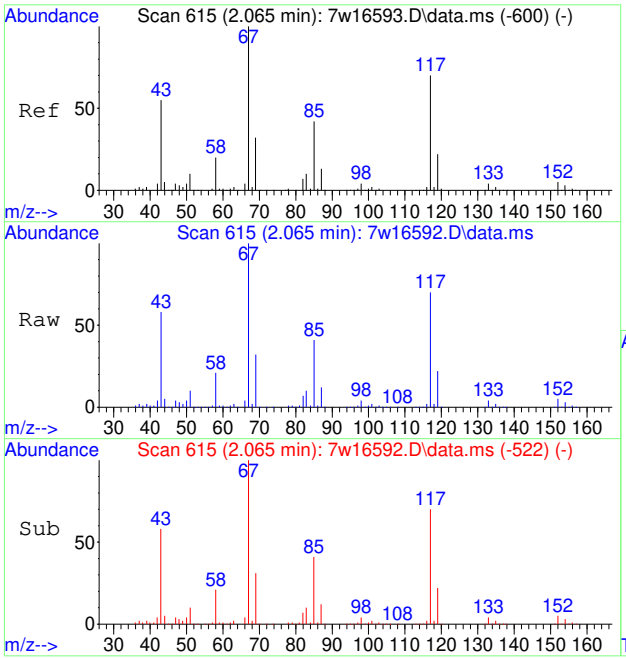


#19
FREON 123
Concen: 38.68 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 996862

Ion	Ratio	Lower	Upper
83	100		
85	93.1	64.9	120.5
133	20.9	14.7	27.3

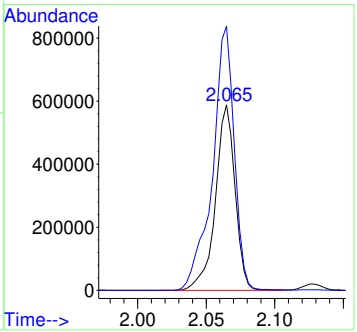


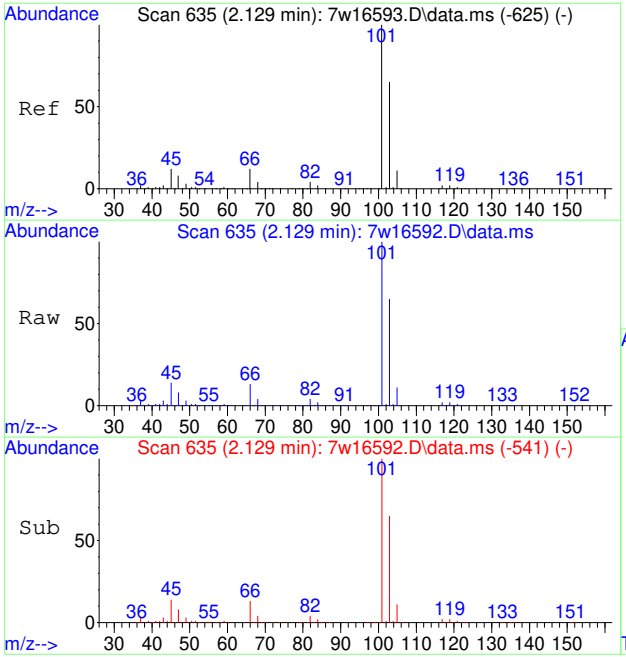


#20
FREON 123A
Concen: 38.26 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 586604

Ion	Ratio	Lower	Upper
117	100		
67	157.9	111.3	206.7

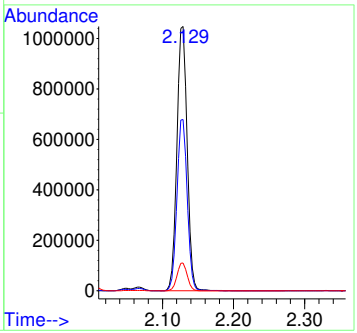


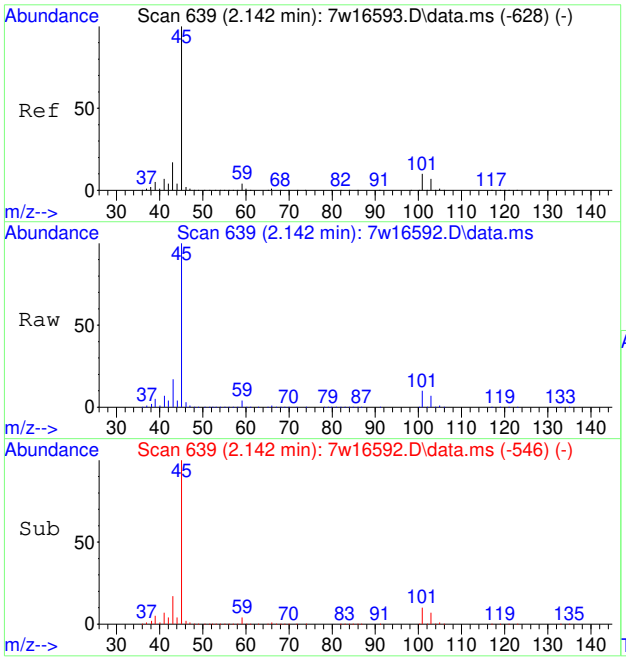


#21
TRICHLOROFLUOROMETHANE
Concen: 35.69 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:101 Resp: 1049426

Ion	Ratio	Lower	Upper
101	100		
103	64.8	45.2	84.0
105	10.5	7.3	13.5

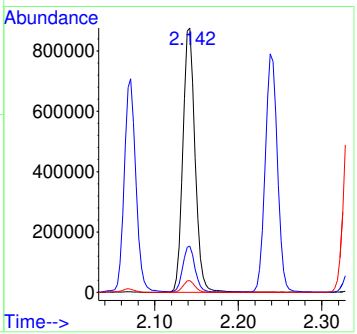


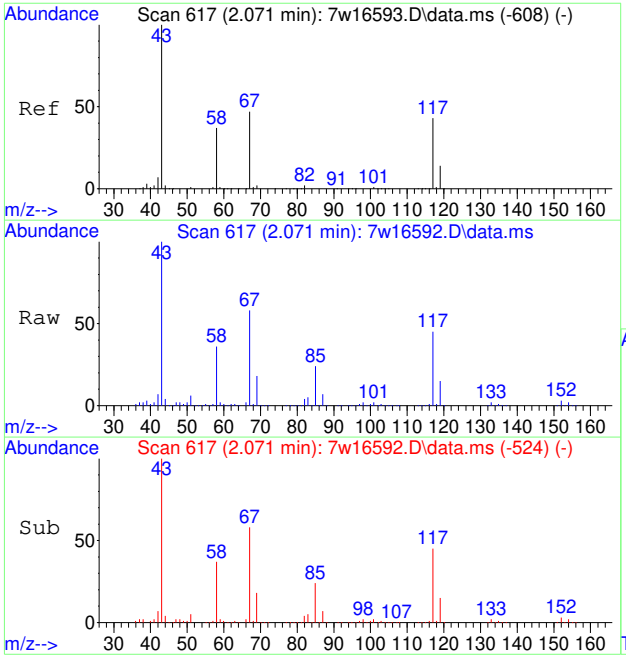


#22
ISOPROPYL ALCOHOL
Concen: 34.78 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 888452

Ion	Ratio	Lower	Upper
45	100		
43	17.7	12.5	23.3
59	4.5	3.1	5.7

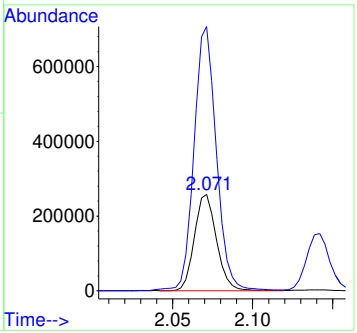


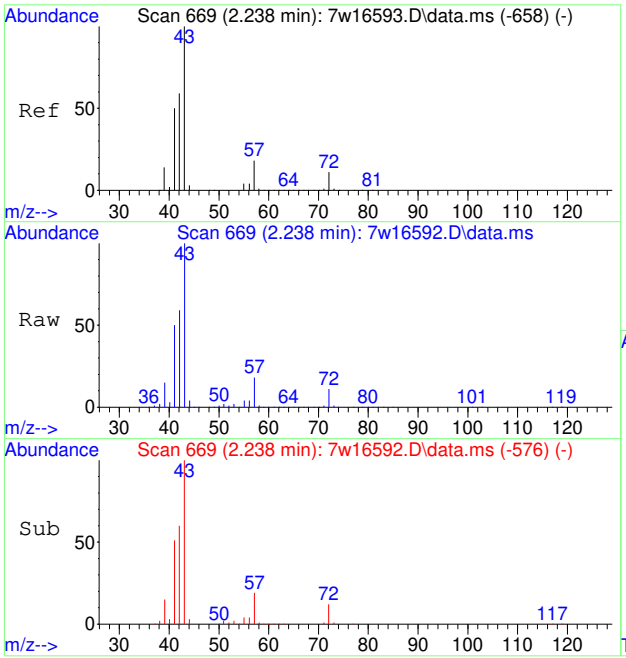


#23
ACETONE
Concen: 35.92 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 248365

Ion	Ratio	Lower	Upper
58	100		
43	276.2	198.6	368.8

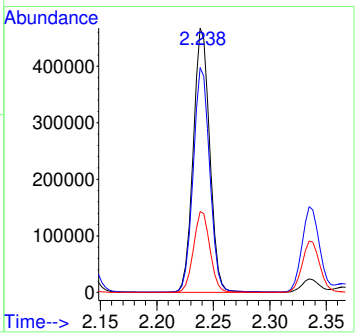


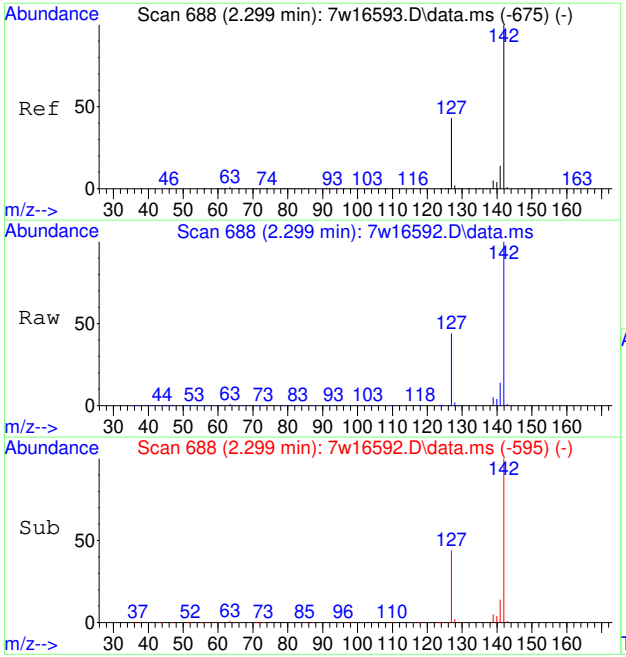


#24
PENTANE
Concen: 34.15 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 42 Resp: 472130

Ion	Ratio	Lower	Upper
42	100		
41	85.2	59.8	111.0
57	30.5	21.1	39.1

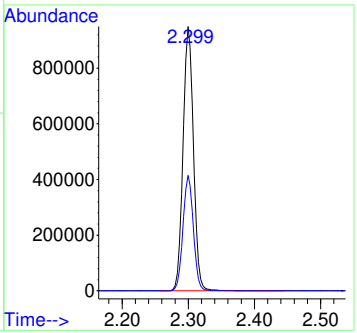


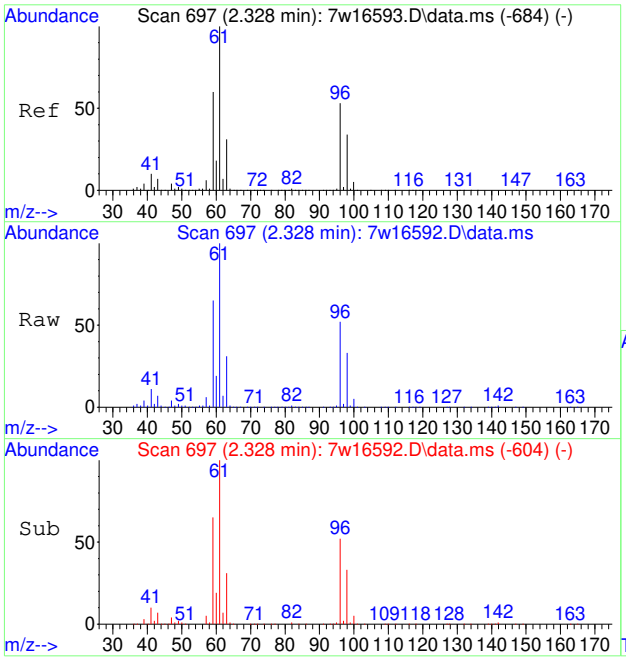


#25
IODOMETHANE
Concen: 38.79 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:142 Resp: 1038259

Ion	Ratio	Lower	Upper
142	100		
127	43.6	30.6	56.8

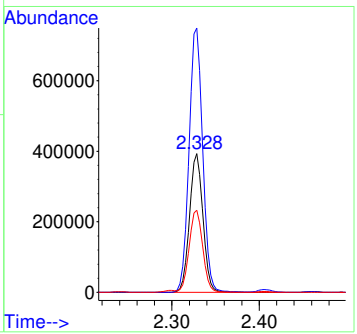


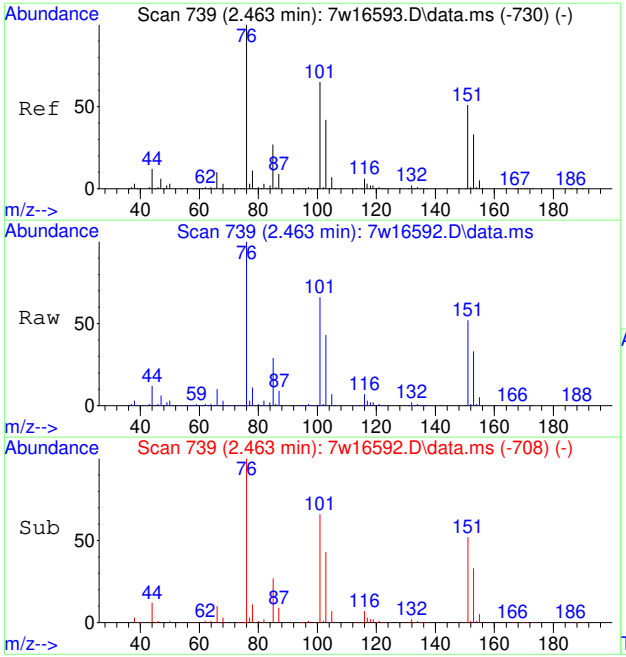


#26
1,1-DICHLOROETHYLENE
Concen: 37.54 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 419658

Ion	Ratio	Lower	Upper
96	100		
61	193.7	138.3	256.8
63	61.5	44.2	82.0

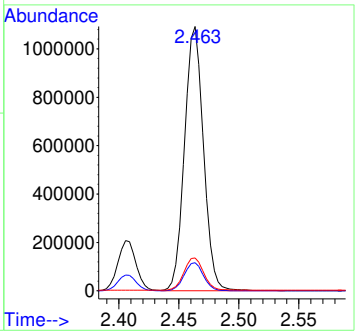


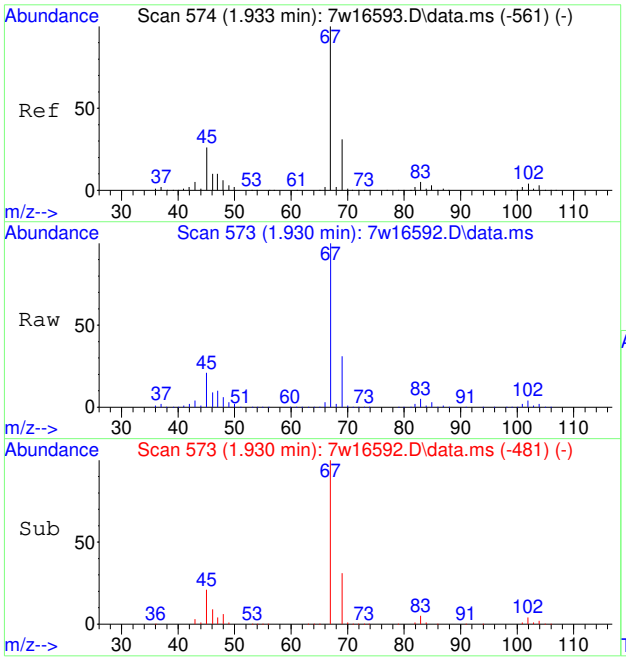


#27
CARBON DISULFIDE
Concen: 37.99 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 1201974

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.8	10.2	19.0

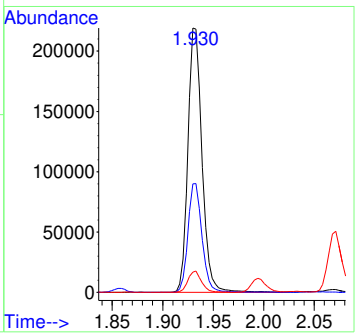


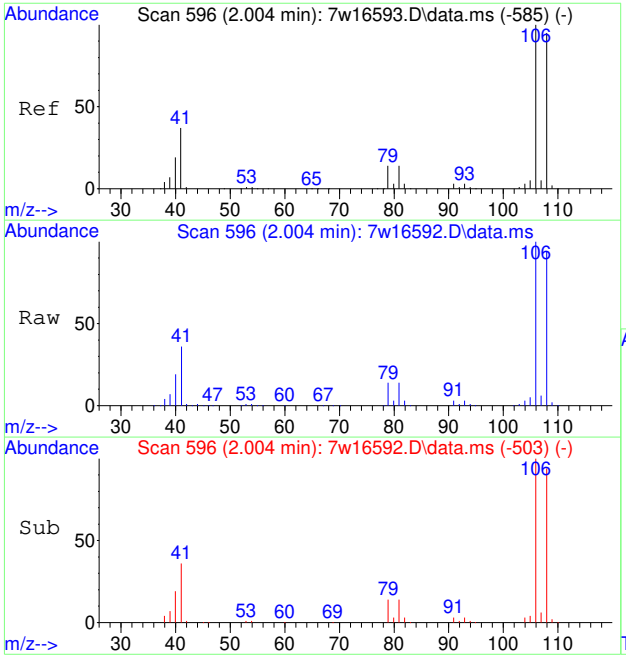


#28
ETHANOL
Concen: 31.01 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 213512

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.9	5.7	10.5

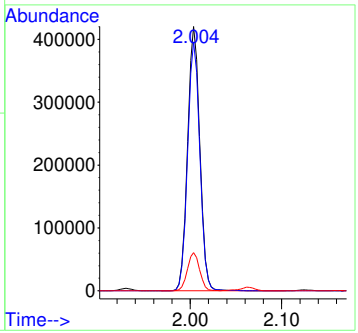


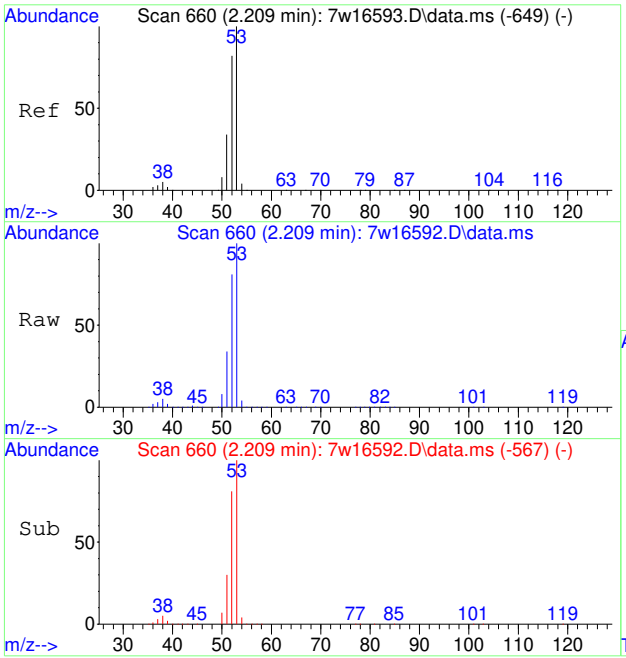


#29
BROMOETHENE
Concen: 36.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:106 Resp: 389718

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.5	10.6	19.8

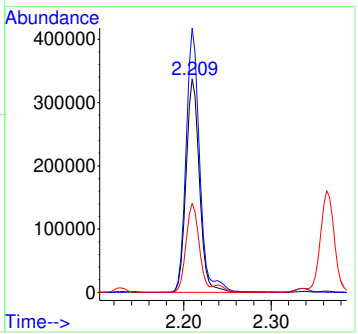


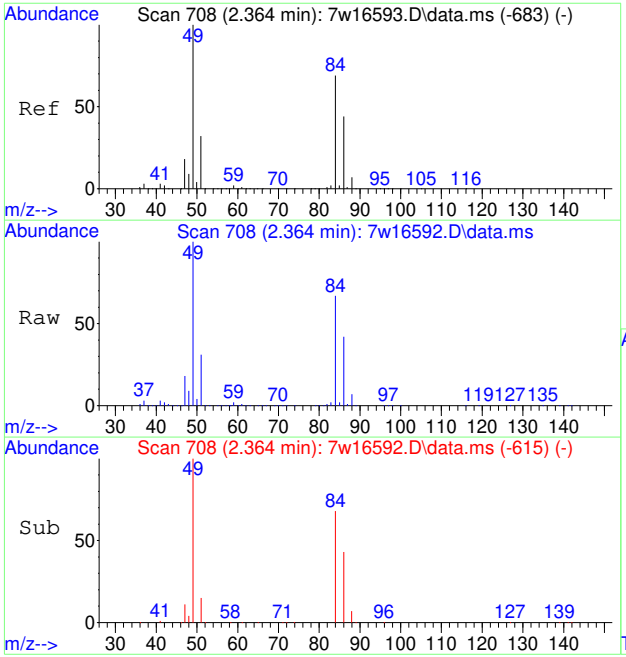


#30
ACRYLONITRILE
Concen: 37.39 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 360634

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.2	31.3	58.1

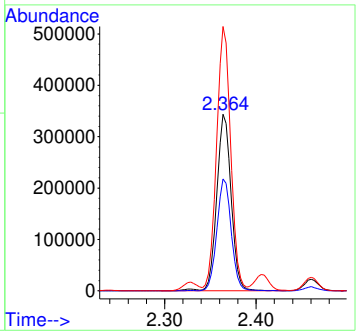


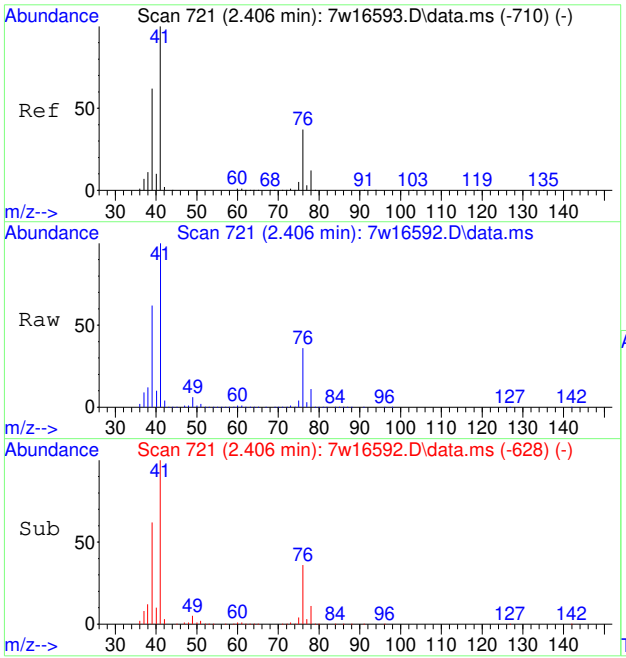


#31
METHYLENE CHLORIDE
Concen: 33.80 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 378529

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.3	82.3
49	147.1	109.5	203.3

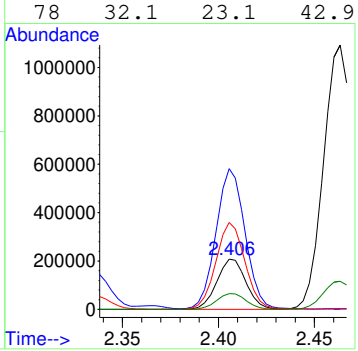


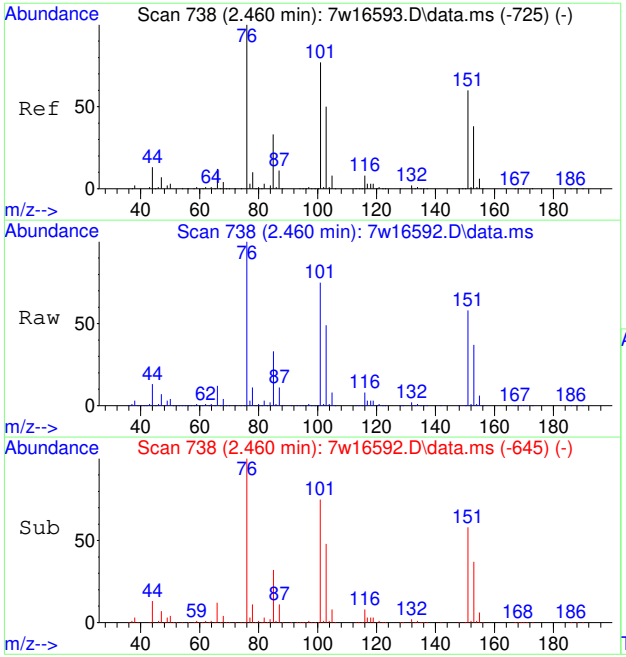


#32
3-CHLOROPROPENE
Concen: 36.95 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 219238

Ion	Ratio	Lower	Upper
76	100		
41	280.1	202.6	376.2
39	172.5	125.8	233.6
78	32.1	23.1	42.9

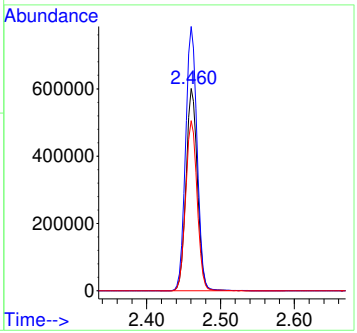


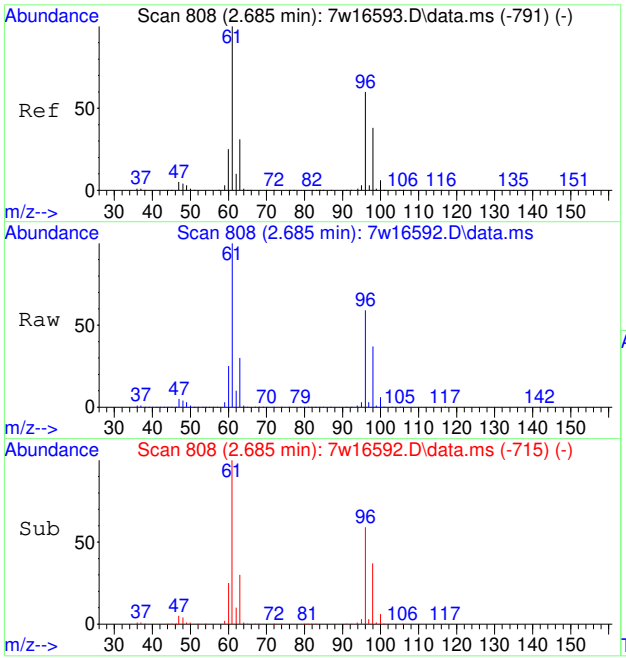


#33
FREON 113
Concen: 38.50 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:151 Resp: 643045

Ion	Ratio	Lower	Upper
151	100		
101	132.0	93.1	172.9
103	85.1	60.1	111.5

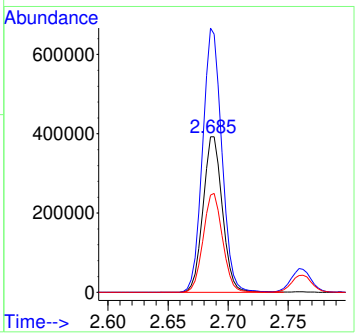


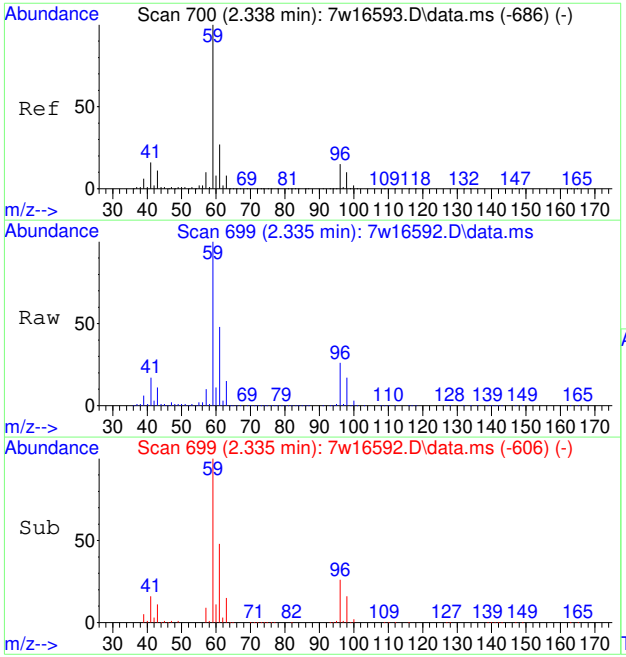


#34
TRANS-1,2-DICHLOROETHENE
Concen: 35.87 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 441405

Ion	Ratio	Lower	Upper
96	100		
61	167.8	119.6	222.0
98	63.6	44.9	83.5

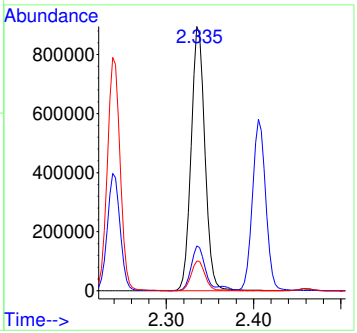


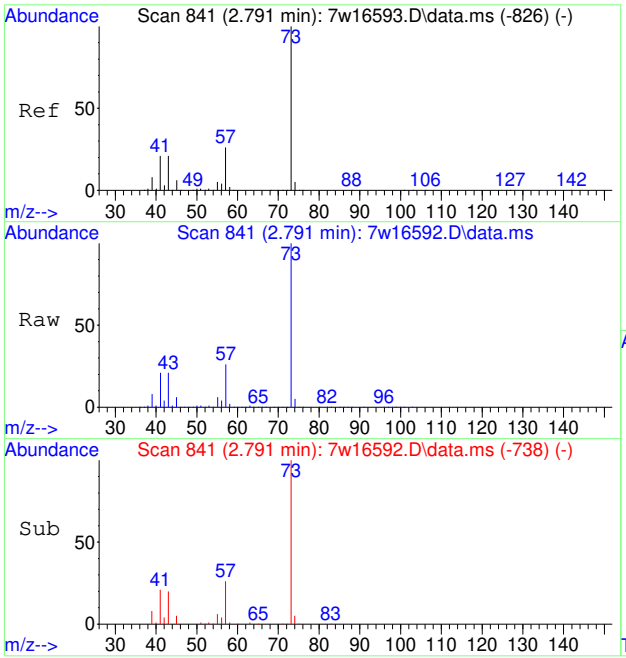


#35
TERTIARY BUTYL ALCOHOL
Concen: 31.02 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 985604

Ion	Ratio	Lower	Upper
59	100		
41	18.1	12.9	23.9
43	11.4	8.0	14.8

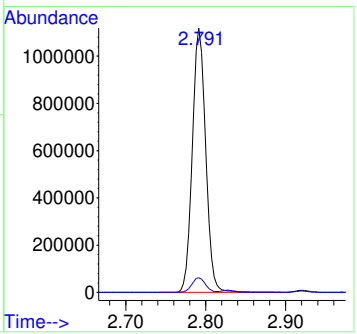


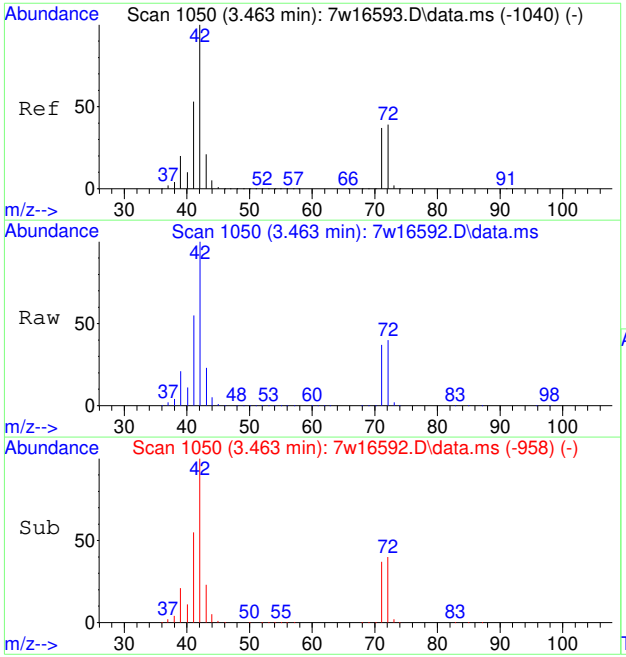


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.36 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 73 Resp: 1301474

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

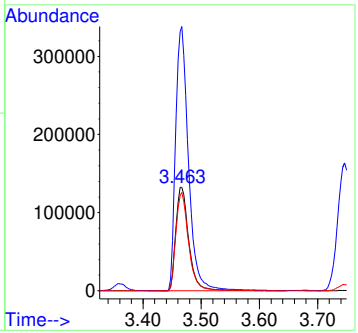


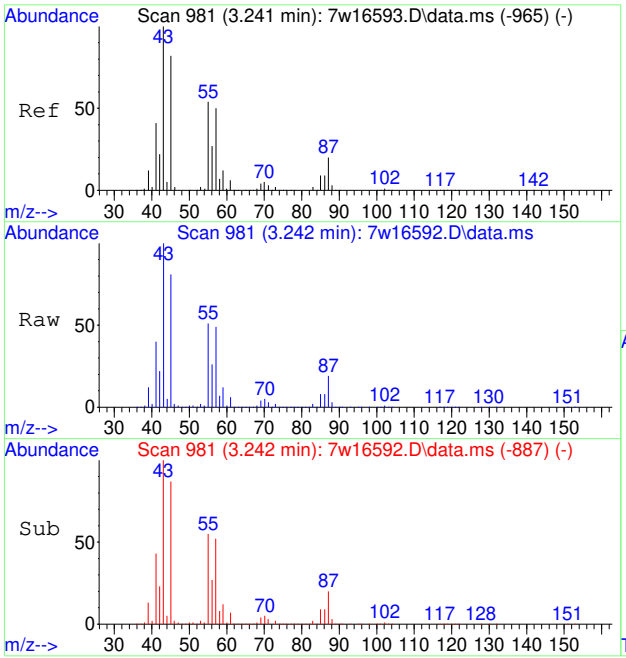


#37
TETRAHYDROFURAN
Concen: 36.97 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 204769

Ion	Ratio	Lower	Upper
72	100		
42	252.8	180.3	334.8
71	93.1	65.8	122.2

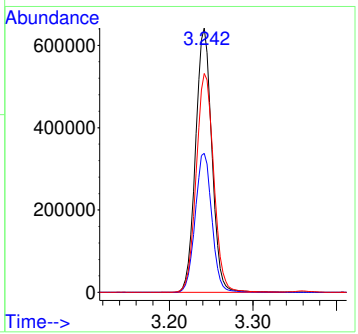


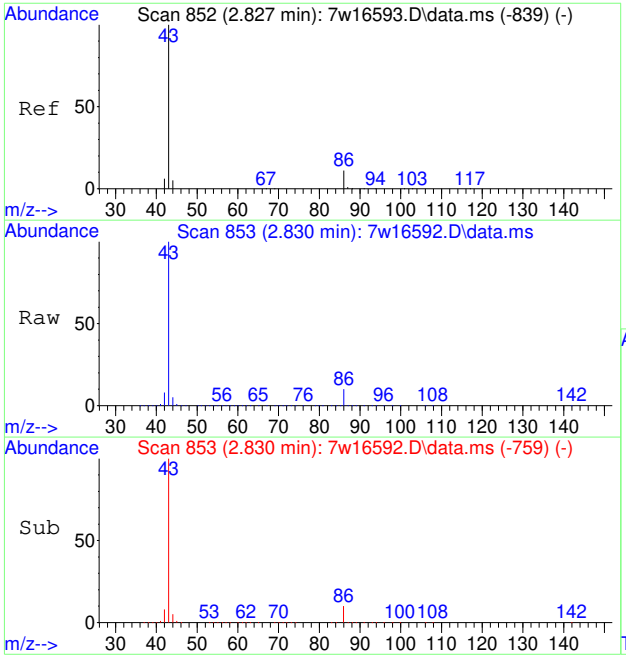


#38
HEXANE
Concen: 36.93 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 870000

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	89.4	65.9	122.5

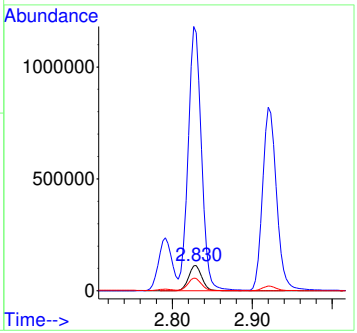


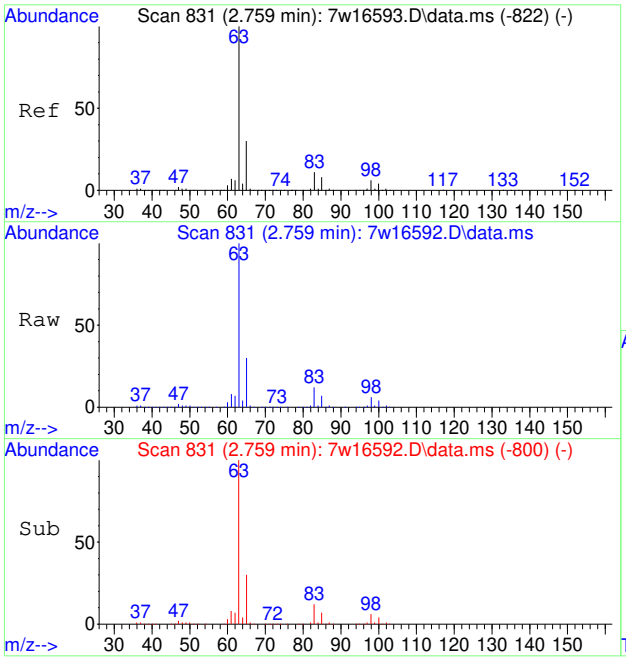


#39
VINYL ACETATE
Concen: 40.25 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 86 Resp: 130550

Ion	Ratio	Lower	Upper
86	100		
43	1050.6	758.7	1408.9
44	50.2	39.5	73.3

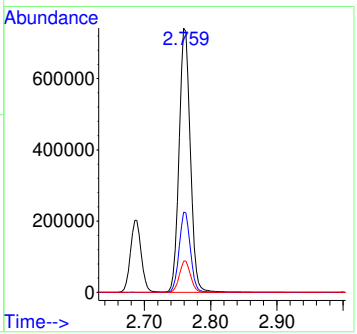


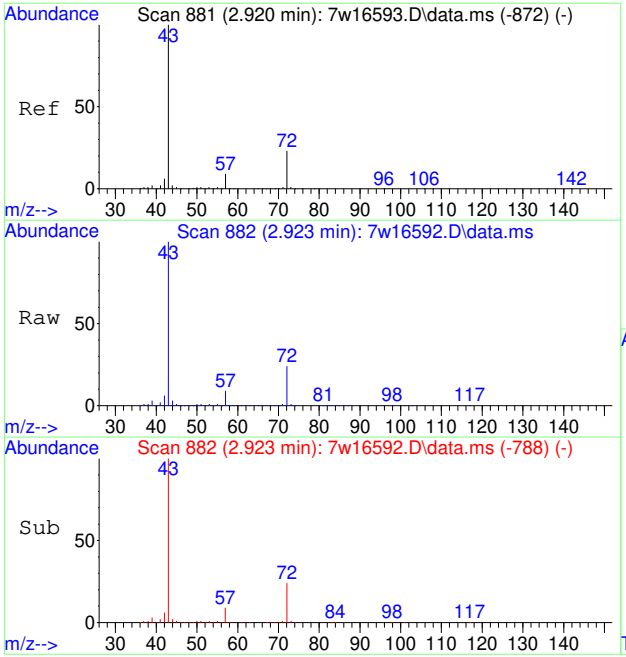


#40
1,1-DICHLOROETHANE
Concen: 37.13 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 876273

Ion	Ratio	Lower	Upper
63	100		
65	30.5	21.4	39.8
83	11.9	8.3	15.5

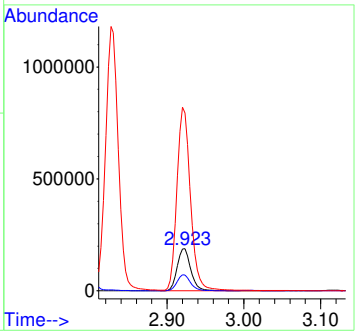


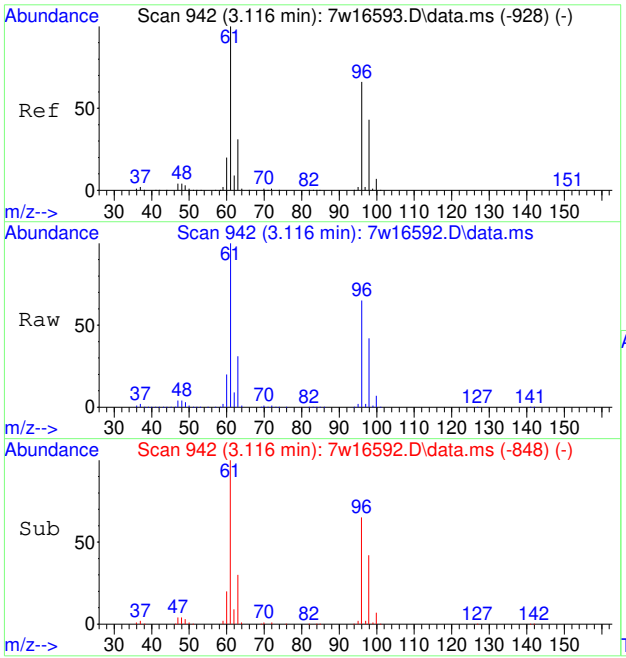


#41
METHYL ETHYL KETONE
Concen: 36.08 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 232500

Ion	Ratio	Lower	Upper
72	100		
57	37.9	26.9	49.9
43	435.4	309.4	574.6

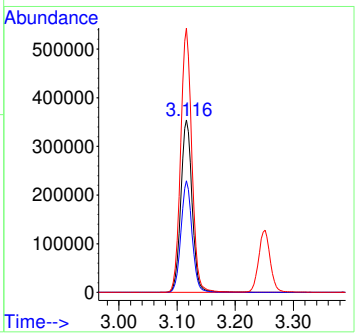


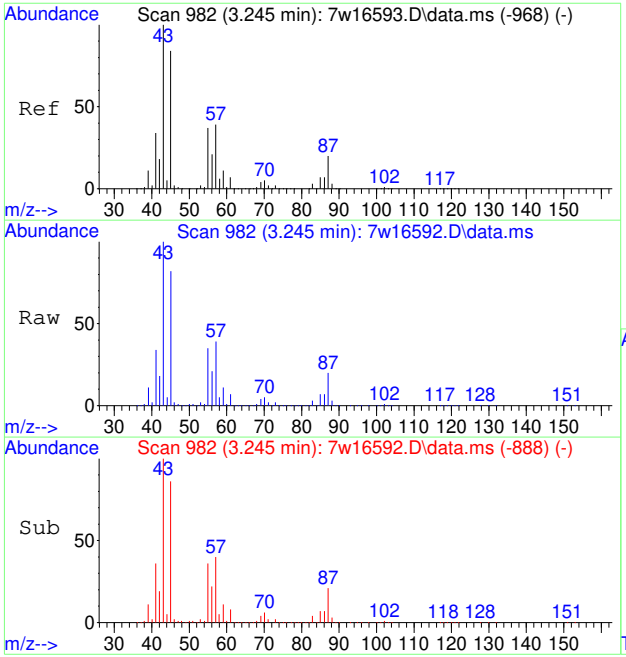


#42
CIS-1,2-DICHLOROETHENE
Concen: 37.74 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 476500

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	151.3	107.3	199.3

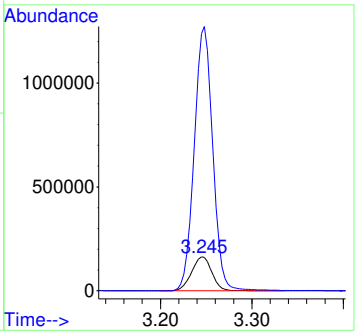


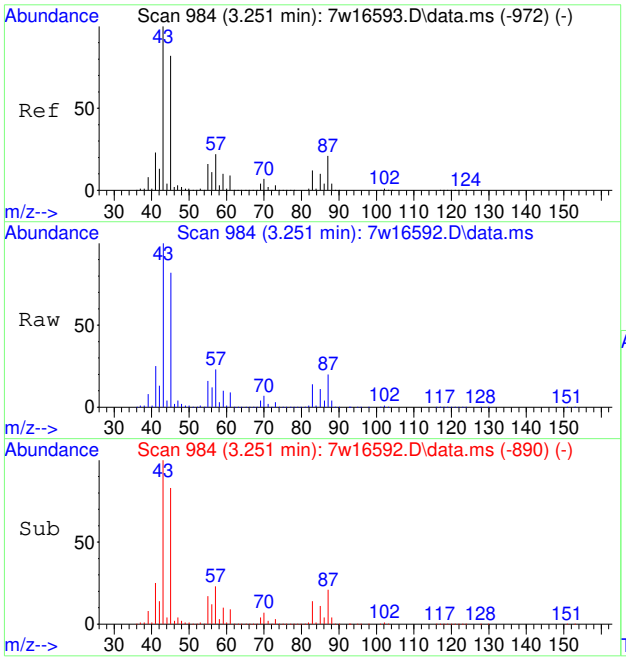


#43
DIISOPROPYL ETHER
Concen: 37.93 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 251965

Ion	Ratio	Lower	Upper
59	100		
45	711.3	517.6	961.2

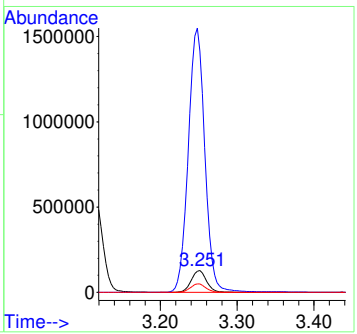


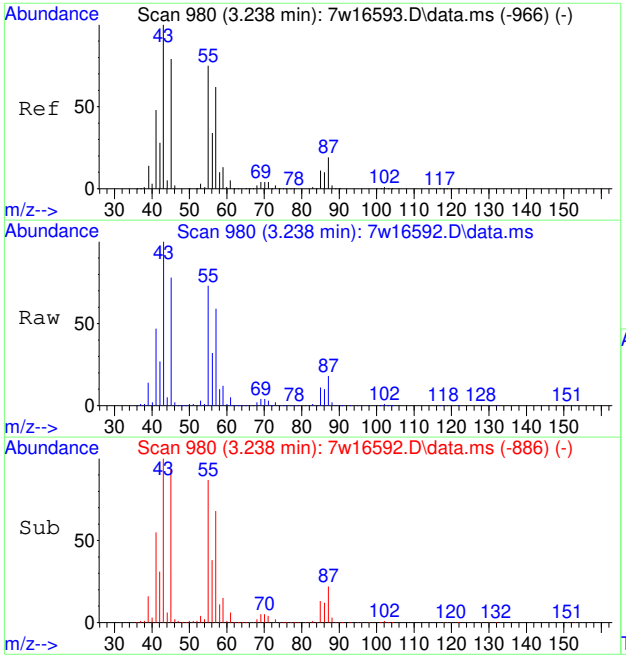


#44
ETHYL ACETATE
Concen: 40.87 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 61 Resp: 179704

Ion	Ratio	Lower	Upper
61	100		
43	1294.1	955.4	1774.4
88	39.7	27.6	51.2

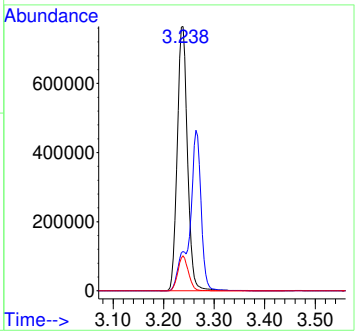


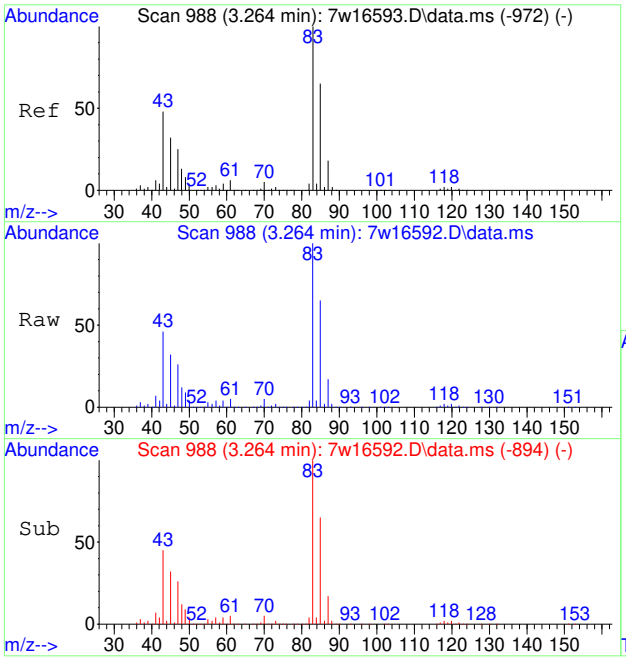


#45
METHYL ACRYLATE
Concen: 38.25 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1081547

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

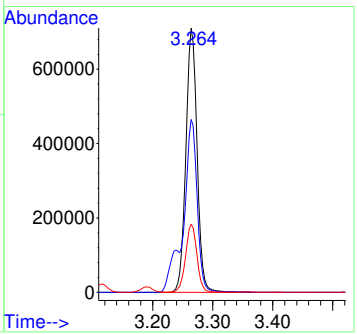


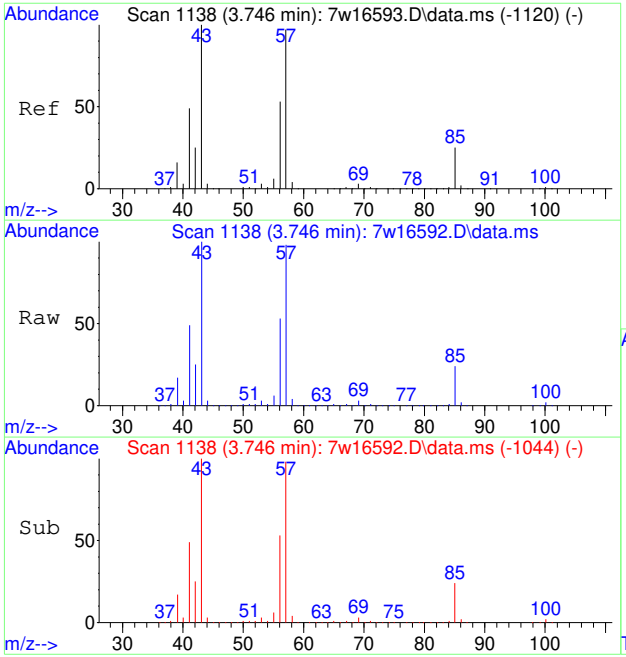


#46
CHLOROFORM
Concen: 37.55 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 920953

Ion	Ratio	Lower	Upper
83	100		
85	81.3	56.0	104.0
47	26.3	19.0	35.4

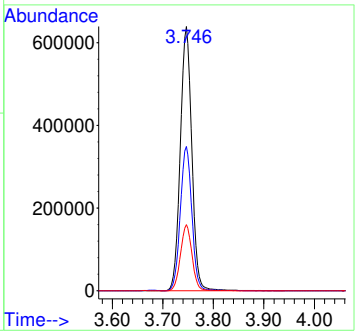


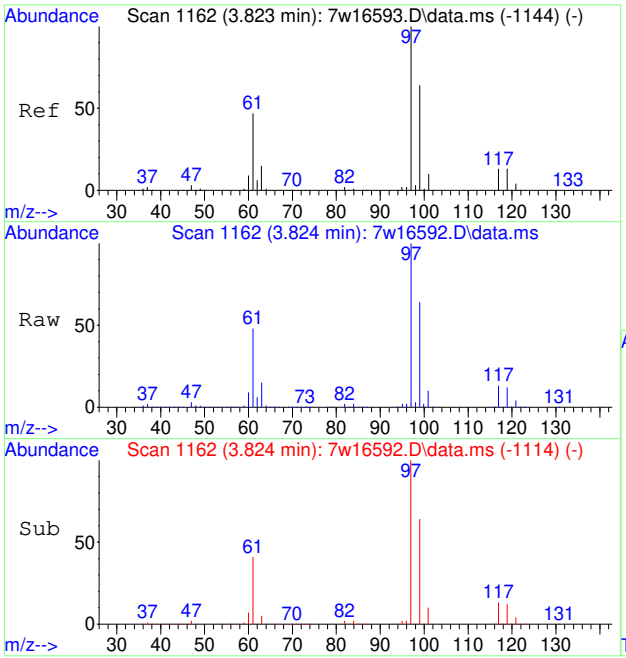


#47
2,4-DIMETHYLPENTANE
Concen: 38.86 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 1014851

Ion	Ratio	Lower	Upper
57	100		
56	54.9	38.4	71.2
85	25.2	17.5	32.5

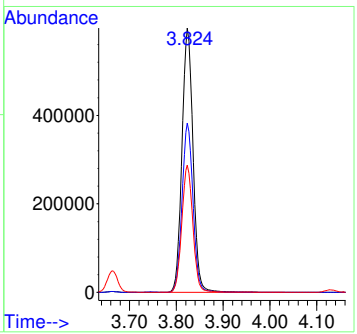


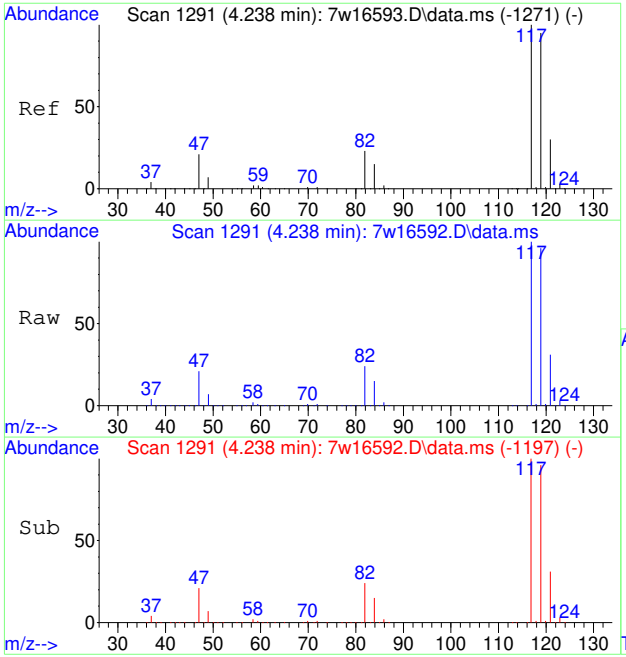


#48
1,1,1-TRICHLOROETHANE
Concen: 38.31 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 97 Resp: 979950

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	48.2	34.7	64.5

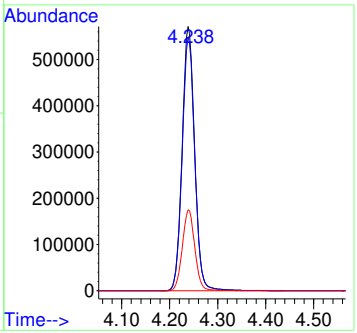


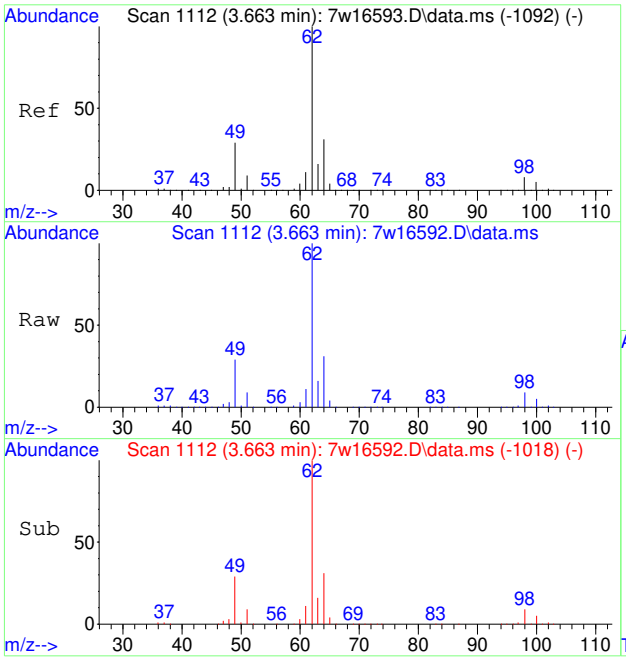


#49
CARBON TETRACHLORIDE
Concen: 39.82 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 1037151

Ion	Ratio	Lower	Upper
117	100		
119	96.3	67.5	125.3
121	30.6	21.3	39.5

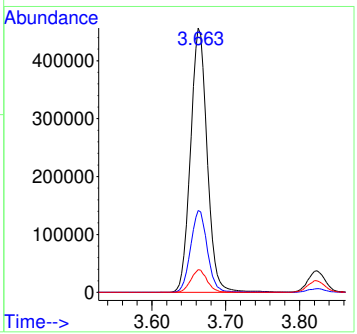


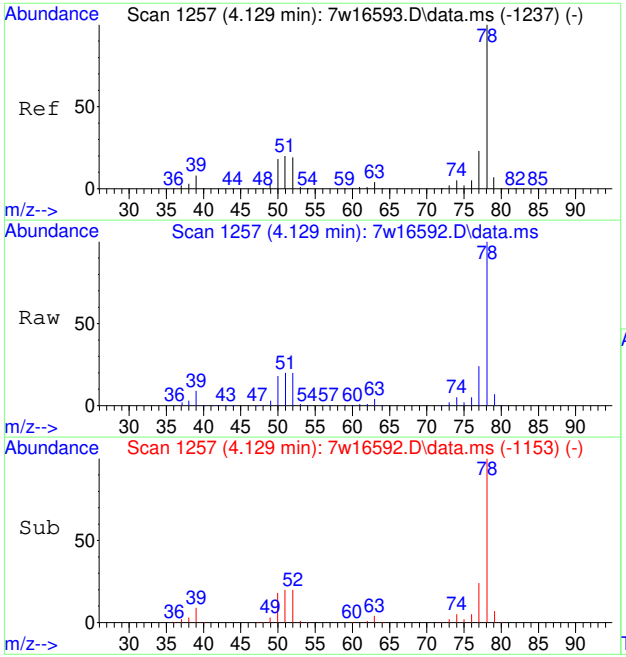


#50
1,2-DICHLOROETHANE
Concen: 37.86 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 713561

Ion	Ratio	Lower	Upper
62	100		
64	31.2	21.8	40.6
98	8.5	5.8	10.8

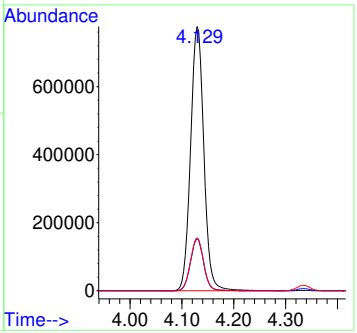


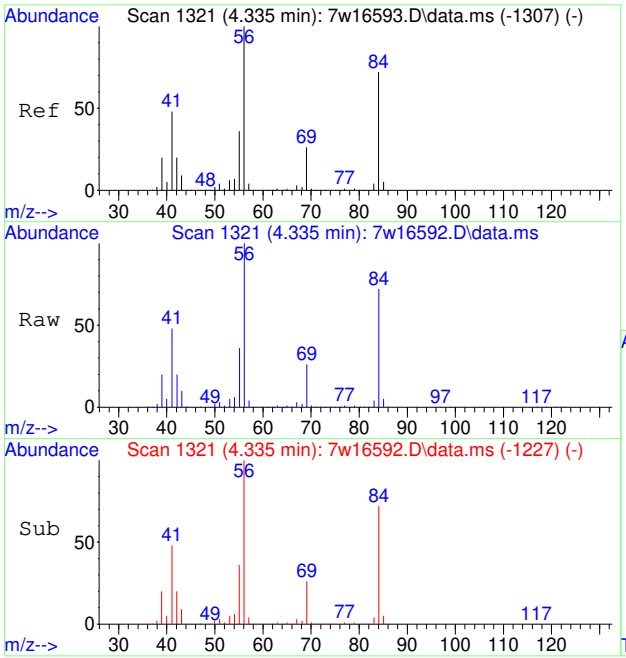


#51
BENZENE
Concen: 36.79 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 78 Resp: 1384237

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	49.9
51	20.0	0.0	50.6

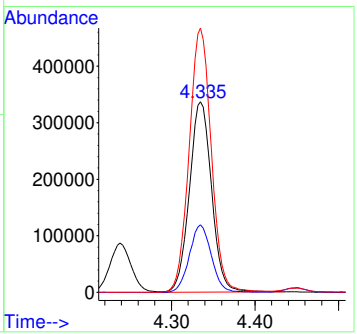


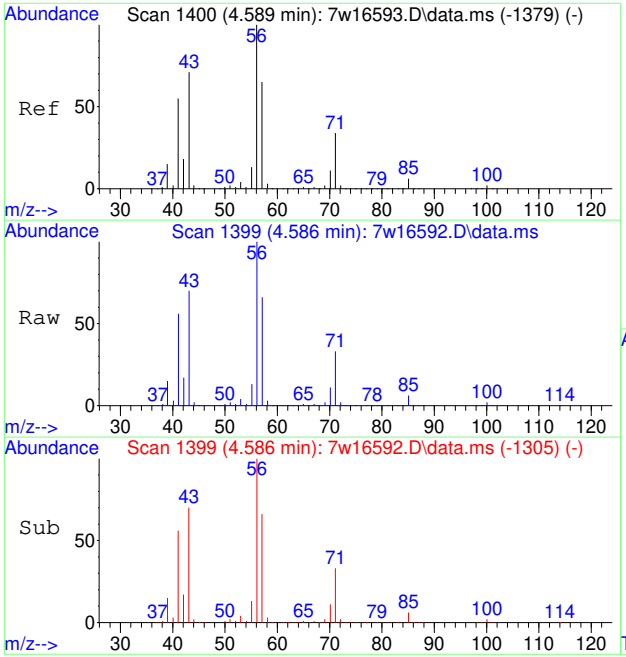


#53
CYCLOHEXANE
Concen: 38.40 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 620038

Ion	Ratio	Lower	Upper
84	100		
69	35.4	24.6	45.6
56	139.1	96.4	179.0

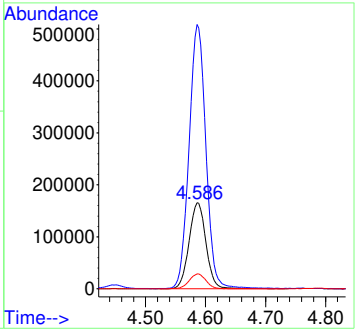


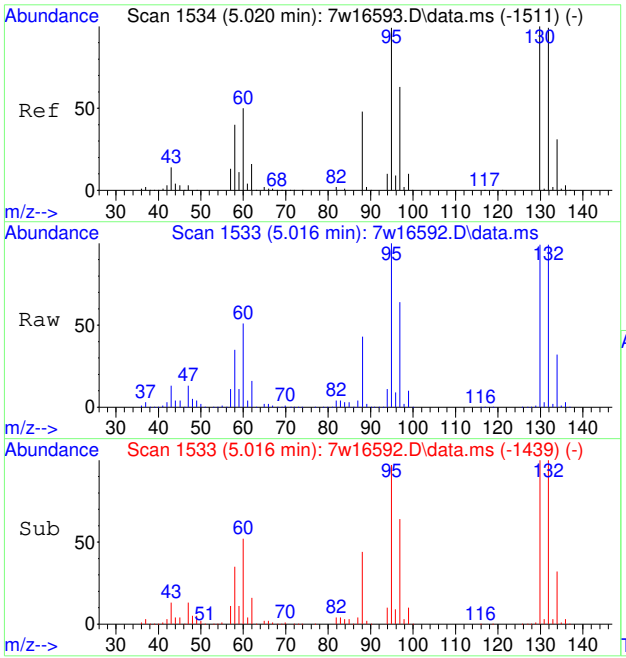


#54
2,3-DIMETHYLPENTANE
Concen: 40.82 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 71 Resp: 325381

Ion	Ratio	Lower	Upper
71	100		
56	304.4	213.2	396.0
85	17.4	12.2	22.6

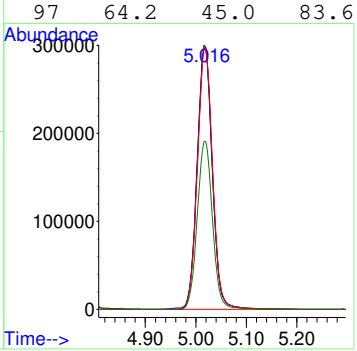


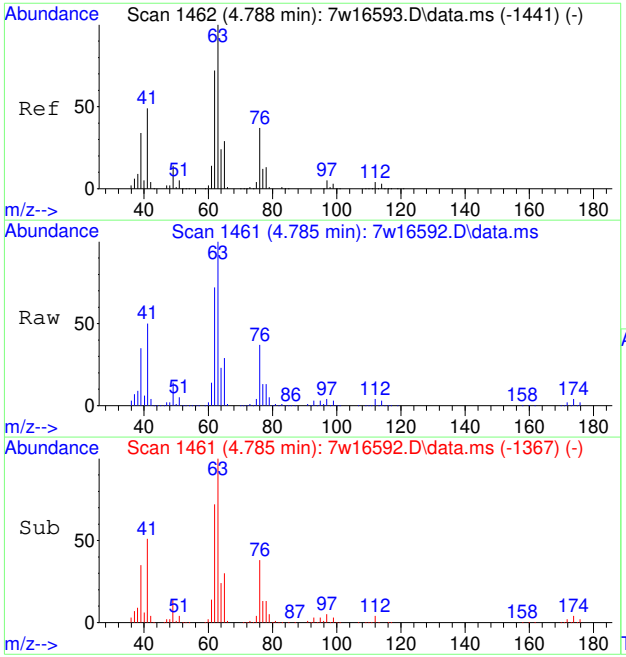


#55
TRICHLOROETHENE
Concen: 36.24 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 95 Resp: 627429

Ion	Ratio	Lower	Upper
95	100		
130	99.8	69.4	129.0
132	99.3	69.4	128.8
97	64.2	45.0	83.6

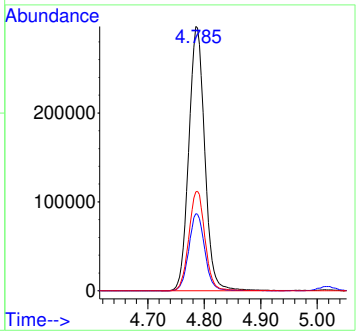


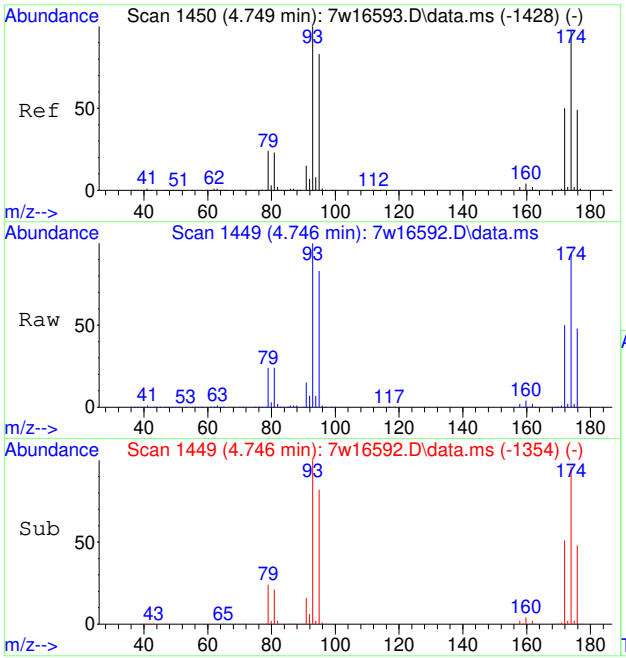


#56
1,2-DICHLOROPROPANE
Concen: 38.36 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 583236

Ion	Ratio	Lower	Upper
63	100		
65	29.4	20.5	38.1
76	38.3	27.1	50.3

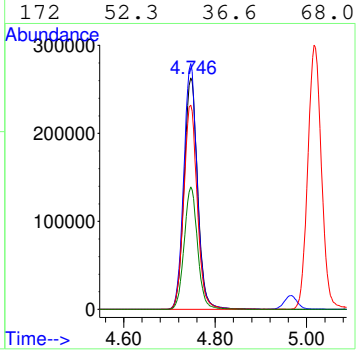


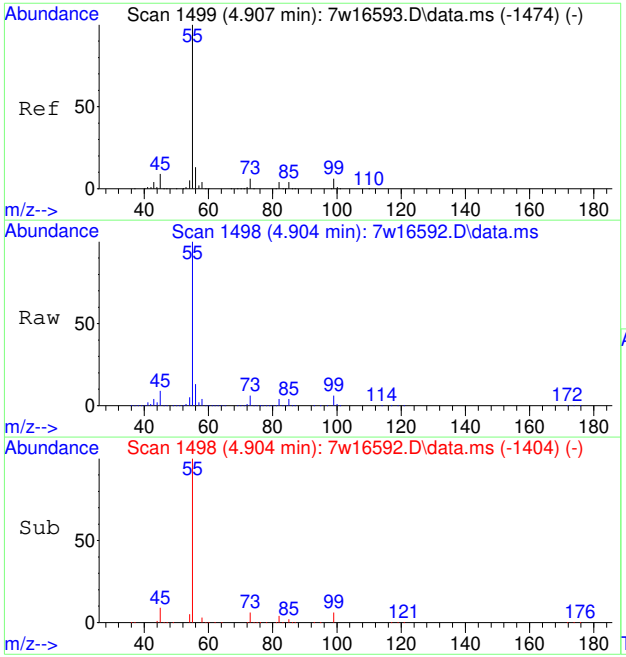


#57
DIBROMOMETHANE
Concen: 36.49 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:174 Resp: 542289

Ion	Ratio	Lower	Upper
174	100		
93	105.2	75.3	139.9
95	88.2	62.4	115.8
172	52.3	36.6	68.0

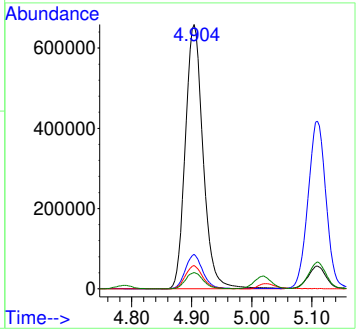


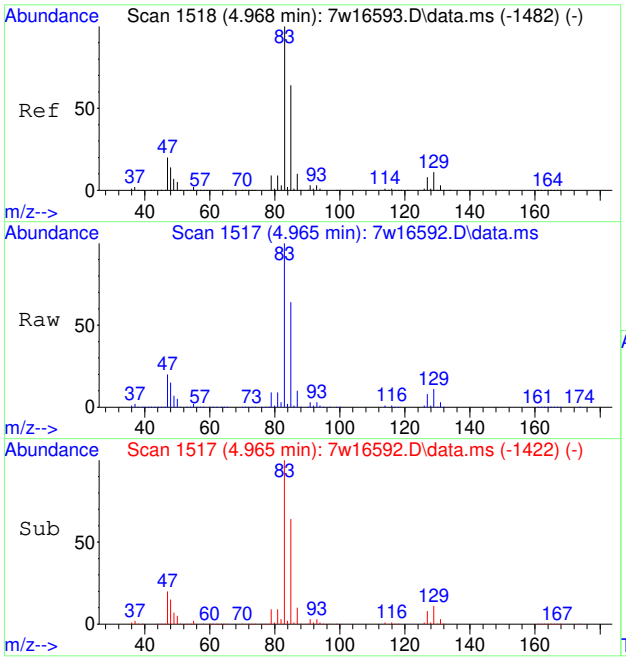


#58
ETHYL ACRYLATE
Concen: 40.04 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1354109

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.6	6.1	11.3
99	6.1	4.3	8.1

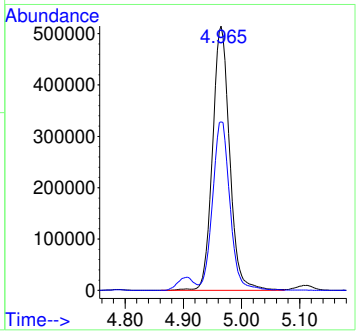


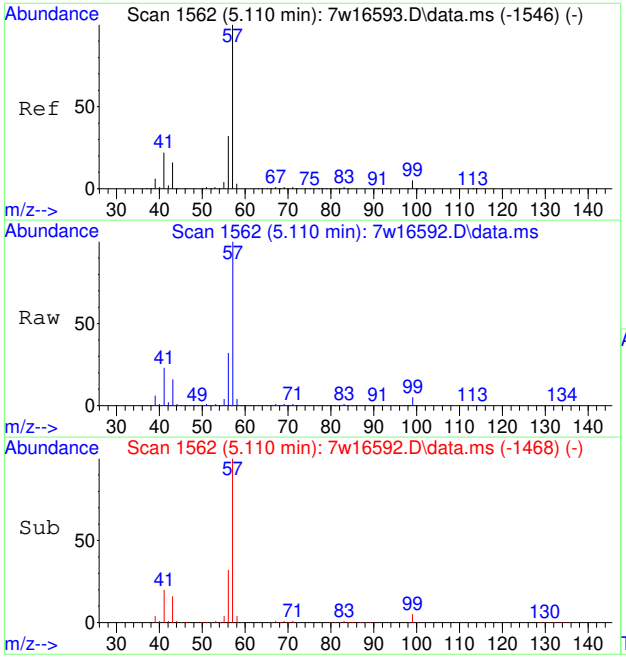


#59
BROMODICHLOROMETHANE
Concen: 38.42 PPBV
RT: 4.965 min Scan# 1517
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1056193

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

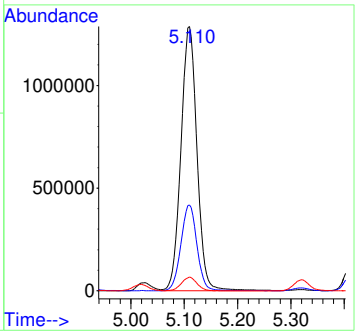


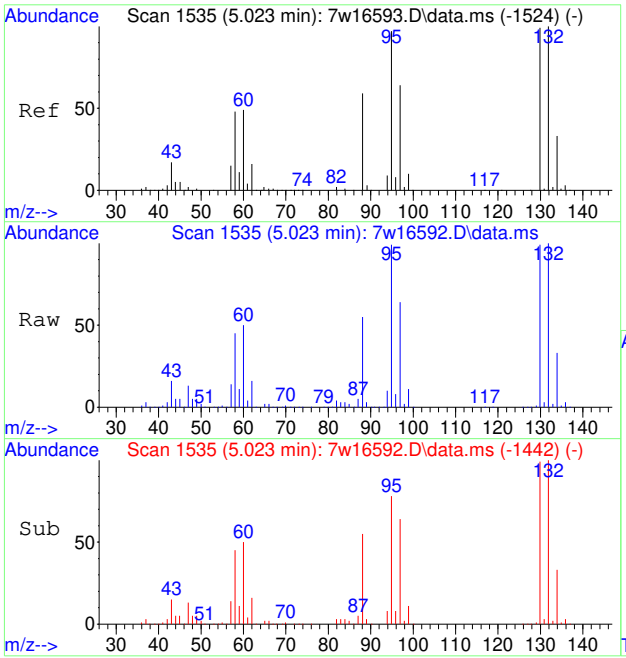


#60
2,2,4-TRIMETHYLPENTANE
Concen: 35.45 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 2697169

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

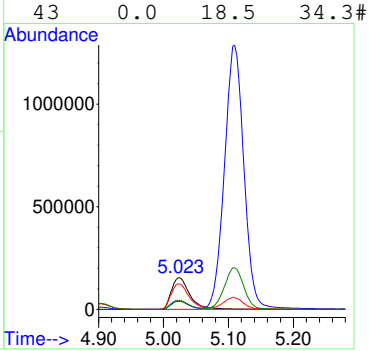


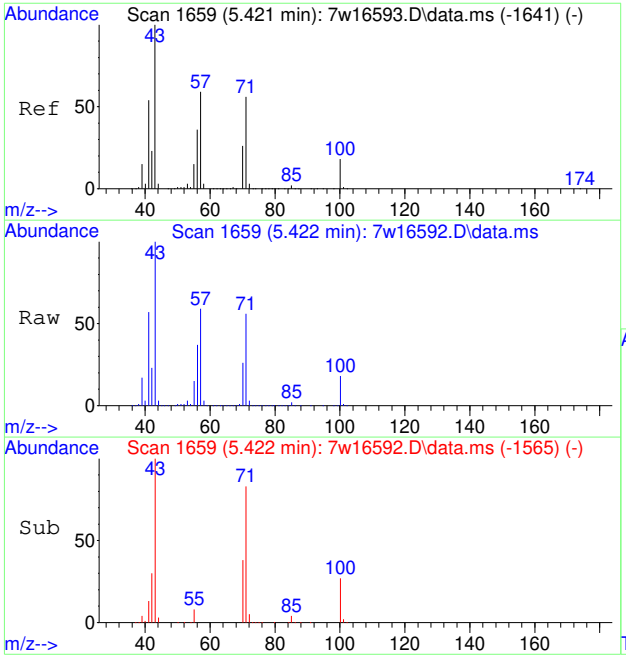


#61
1,4-DIOXANE
Concen: 38.33 PPBV m
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 88 Resp: 307098

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

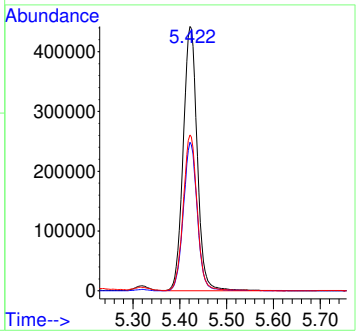


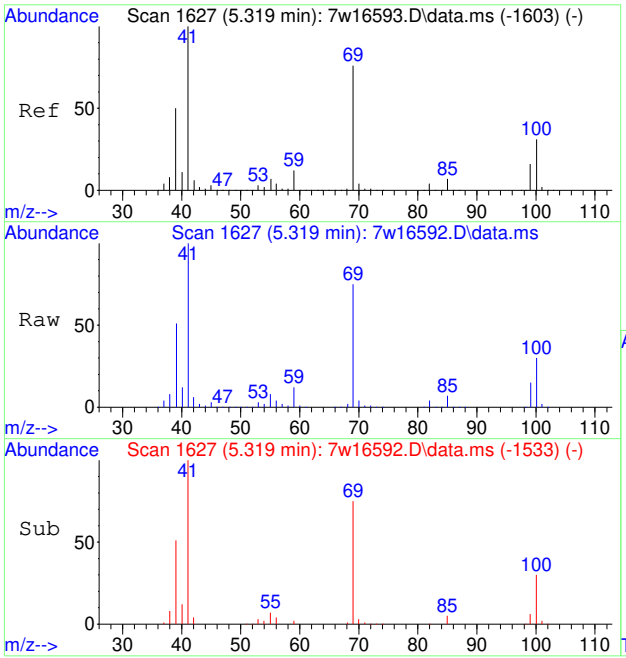


#62
HEPTANE
Concen: 36.76 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 919337

Ion	Ratio	Lower	Upper
43	100		
71	55.6	38.9	72.2
57	59.0	40.5	75.3

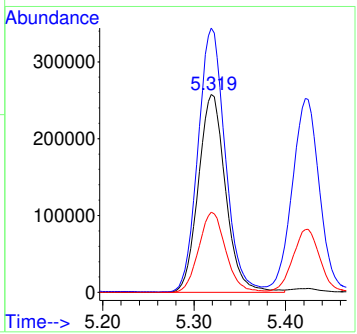


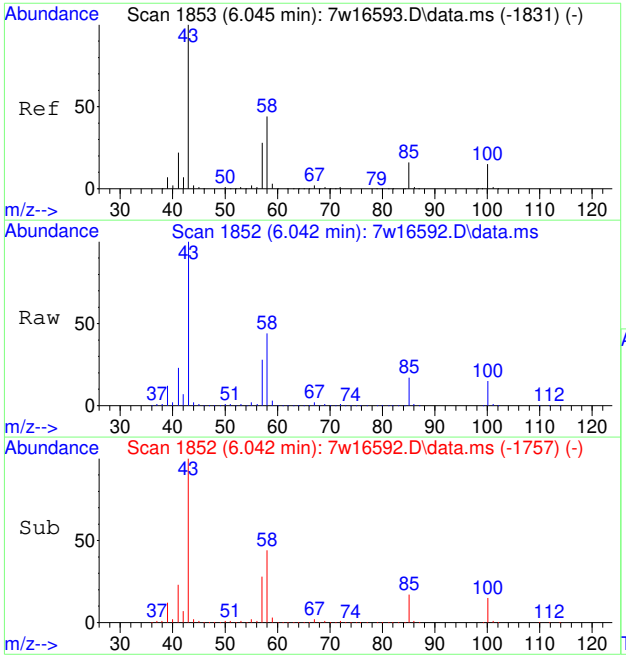


#63
METHYL METHACRYLATE
Concen: 38.93 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 535566

Ion	Ratio	Lower	Upper
69	100		
41	132.0	95.5	177.4
100	40.3	28.1	52.1

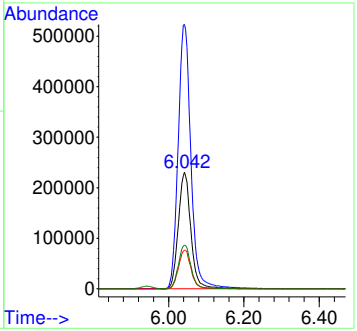


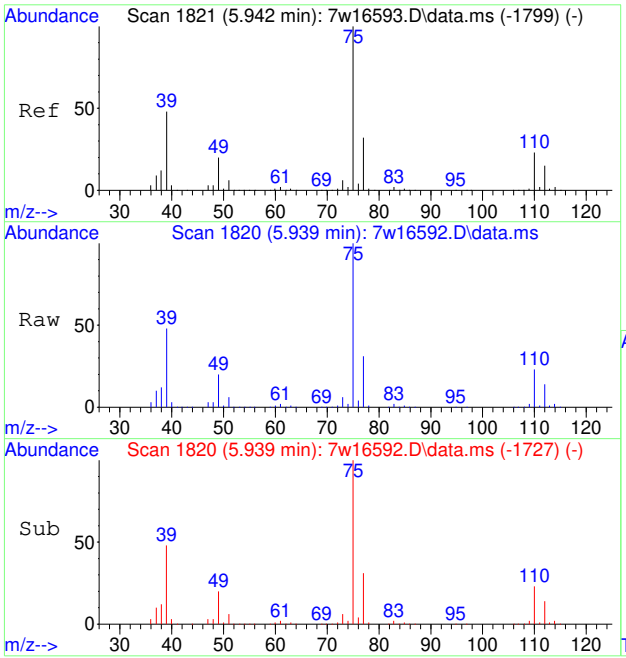


#64
METHYL ISOBUTYL KETONE
Concen: 35.65 PPBV
RT: 6.042 min Scan# 1852
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 535813

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.6	23.2	43.2
85	38.0	26.5	49.3

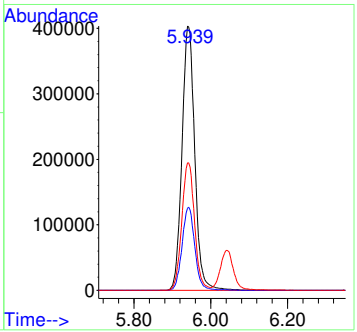


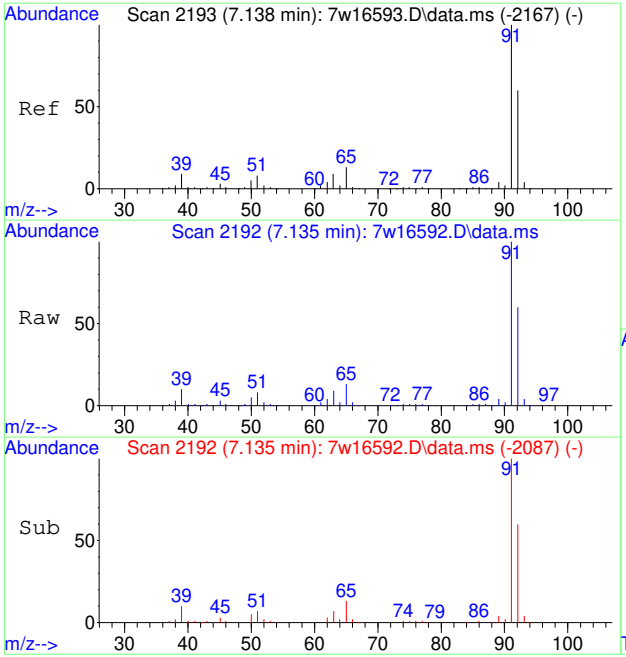


#65
CIS-1,3-DICHLOROPROPENE
Concen: 41.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 931150

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	41.0
39	48.3	35.7	66.3

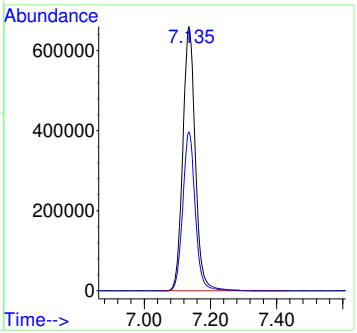


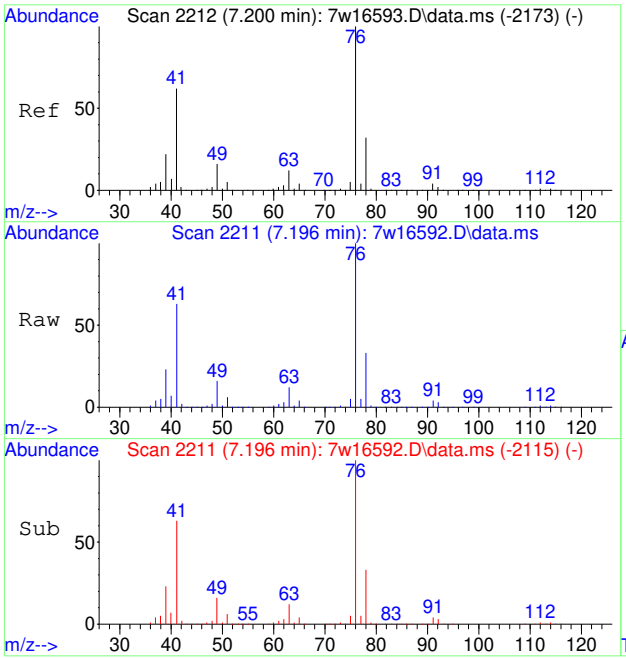


#66
TOLUENE
Concen: 39.79 PPBV
RT: 7.135 min Scan# 2192
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1737506

Ion	Ratio	Lower	Upper
91	100		
92	60.0	30.3	90.3

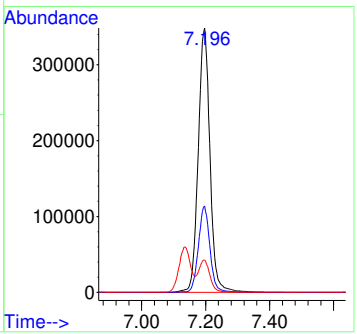


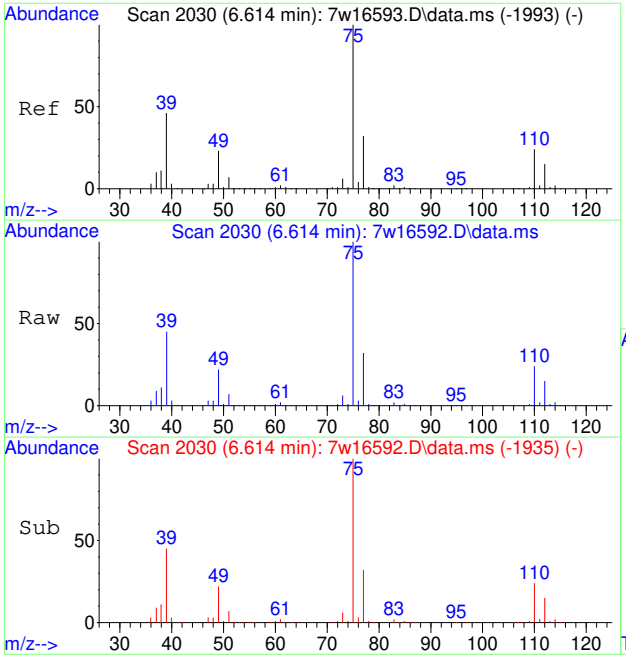


#67
1,3-DICHLOROPROPANE
Concen: 40.85 PPBV
RT: 7.196 min Scan# 2211
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 888887

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.1	8.3	15.5

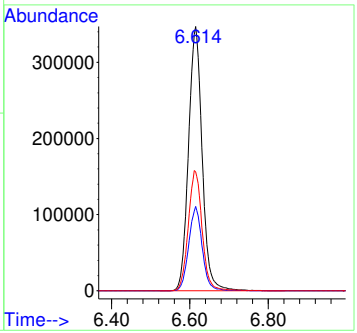


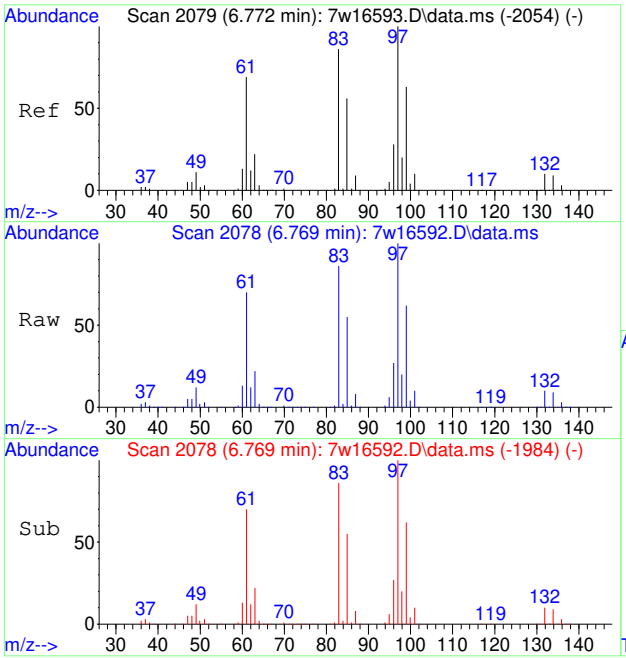


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 41.75 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 837419

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	46.3	33.9	63.0

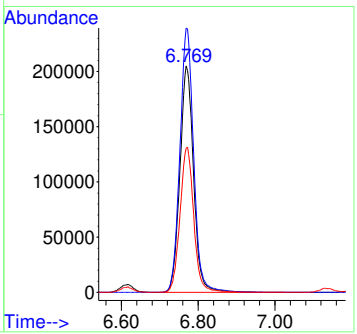


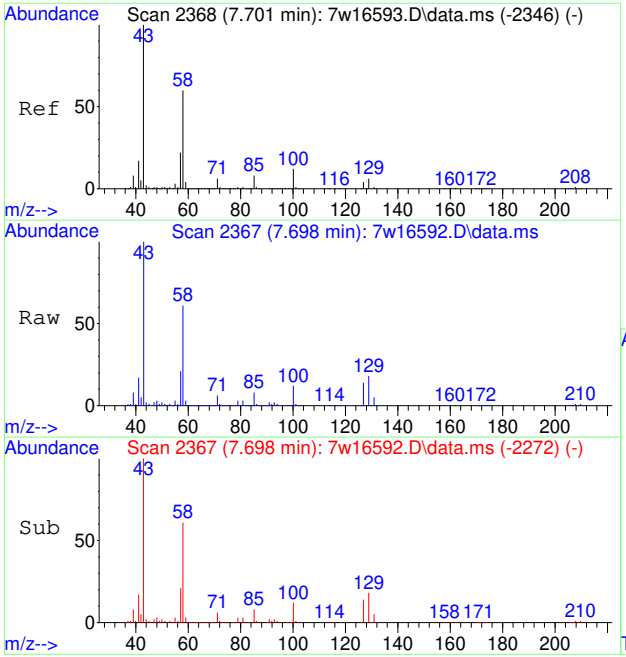


#69
1,1,2-TRICHLOROETHANE
Concen: 41.21 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 506821

Ion	Ratio	Lower	Upper
83	100		
97	117.2	81.2	150.8
85	64.6	45.1	83.7

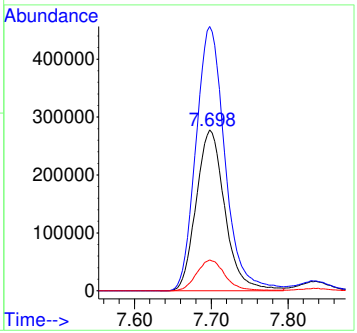


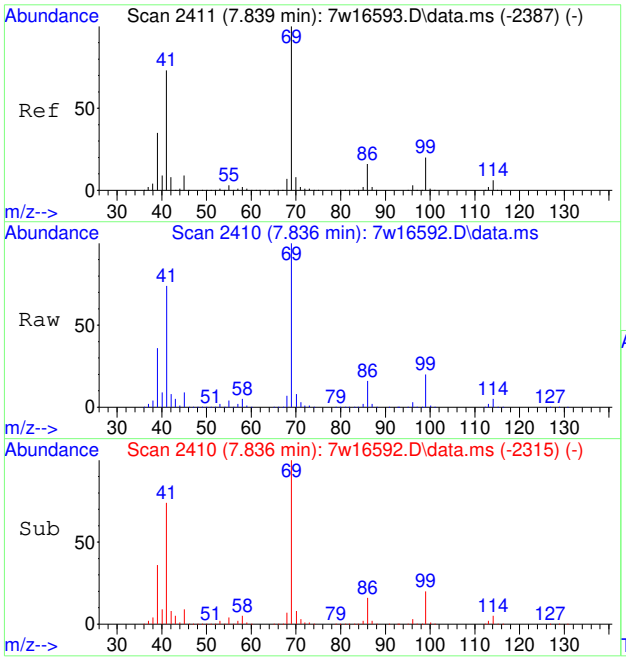


#70
2-HEXANONE
Concen: 33.68 PPBV
RT: 7.698 min Scan# 2367
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 721391

Ion	Ratio	Lower	Upper
58	100		
43	166.0	118.6	220.2
100	19.1	13.0	24.2

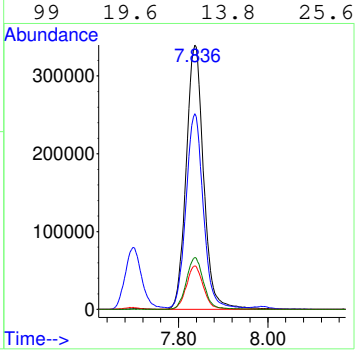


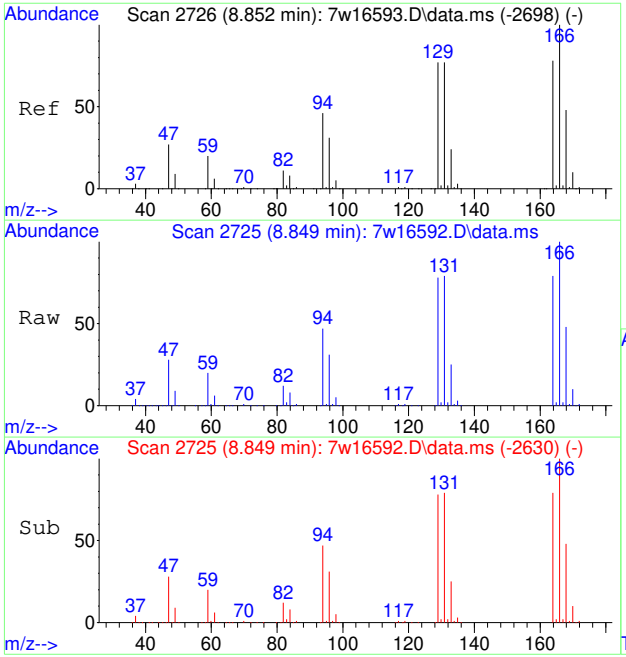


#71
ETHYL METHACRYLATE
Concen: 40.41 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 919855

Ion	Ratio	Lower	Upper
69	100		
41	72.3	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

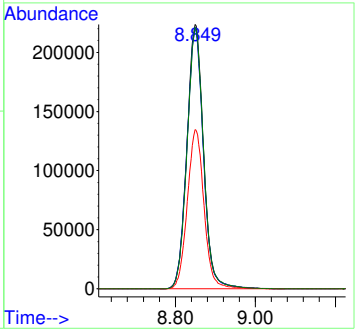


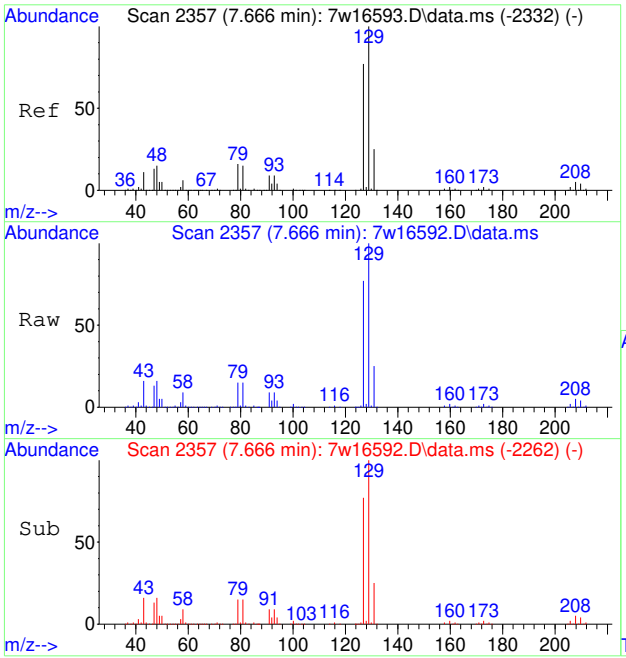


#72
TETRACHLOROETHENE
Concen: 40.75 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:164 Resp: 647021

Ion	Ratio	Lower	Upper
164	100		
129	98.1	69.6	129.2
168	60.5	42.5	78.9
131	98.3	69.4	129.0

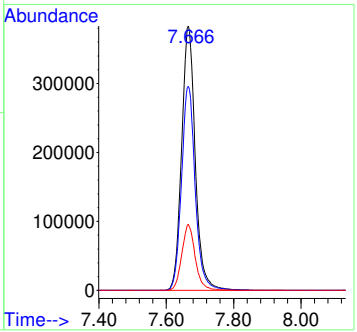


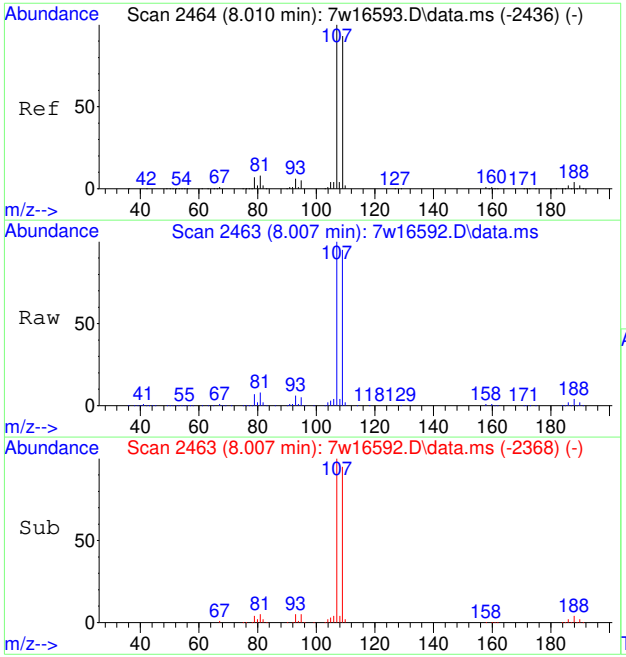


#73
DIBROMOCHLOROMETHANE
Concen: 44.36 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:129 Resp: 1078202

Ion	Ratio	Lower	Upper
129	100		
127	77.9	54.7	101.7
131	24.7	17.4	32.4

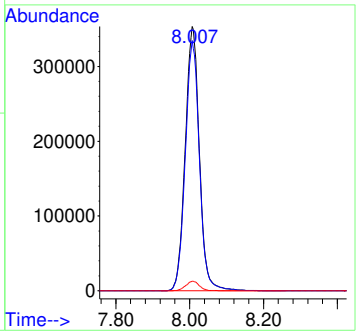


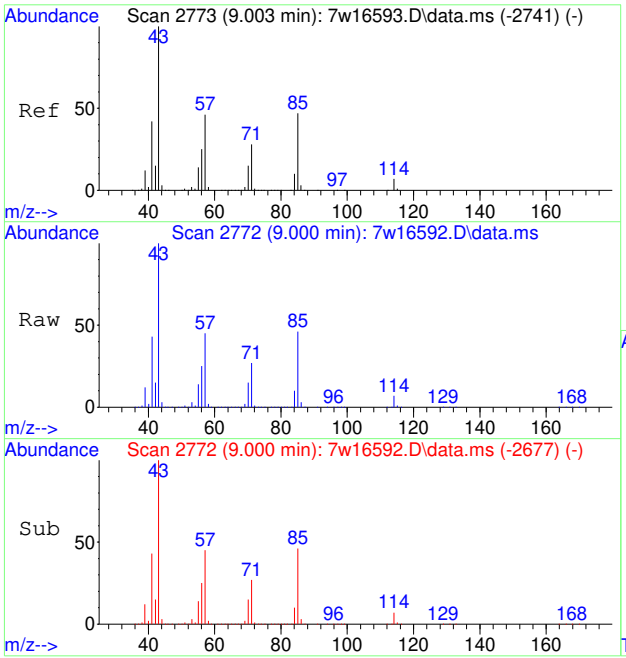


#74
1,2-DIBROMOETHANE
Concen: 41.96 PPBV
RT: 8.007 min Scan# 2463
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:107 Resp: 940297

Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.1	122.8
188	3.6	2.5	4.6

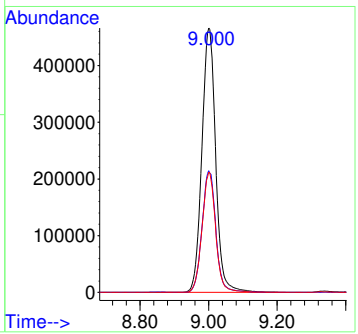


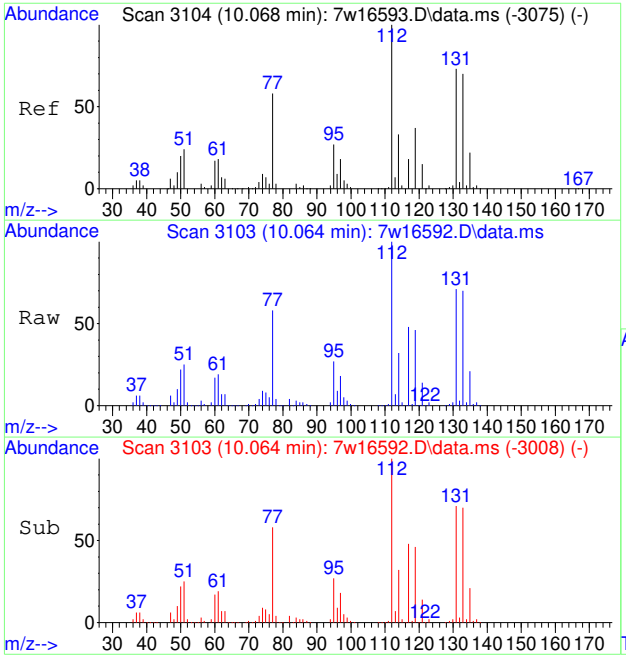


#75
OCTANE
Concen: 39.19 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1299991

Ion	Ratio	Lower	Upper
43	100		
85	46.1	31.8	59.0
57	45.0	31.4	58.2

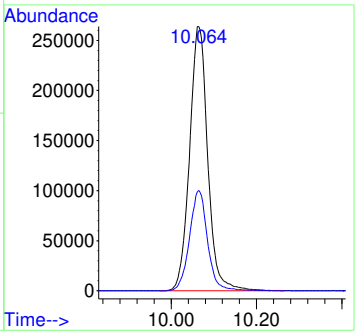


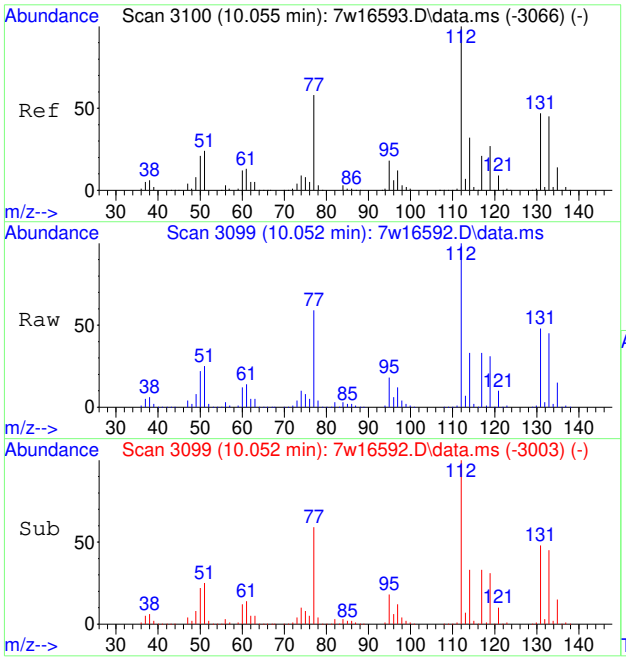


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 43.93 PPBV
RT: 10.064 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:131 Resp: 780177

Ion	Ratio	Lower	Upper
131	100		
95	37.8	26.5	49.1

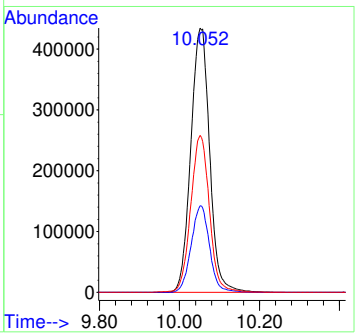


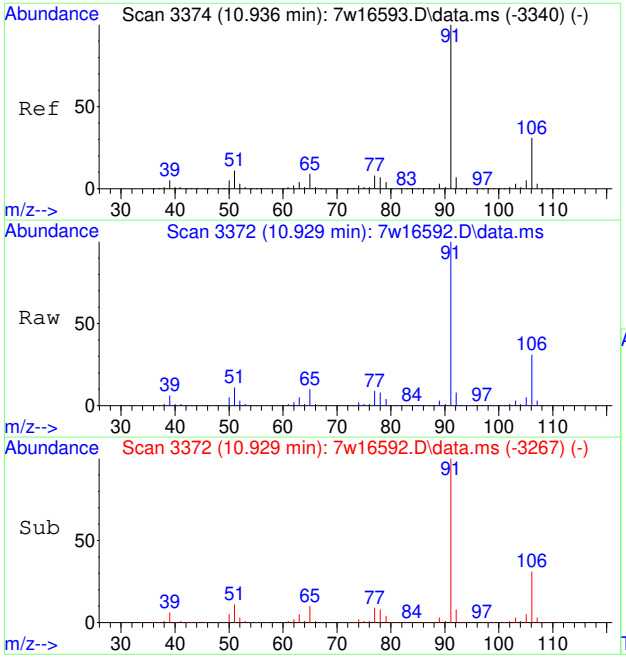


#78
CHLOROBENZENE
Concen: 41.32 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:112 Resp: 1423127

Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	59.0	42.1	78.1

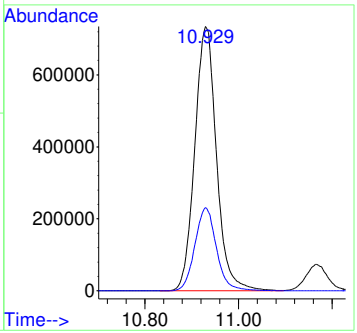


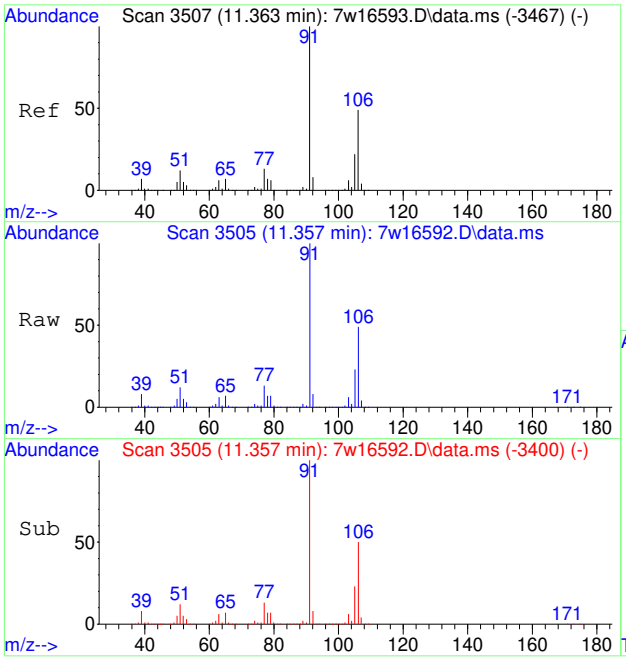


#79
ETHYLBENZENE
Concen: 41.92 PPBV
RT: 10.929 min Scan# 3372
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2363041

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

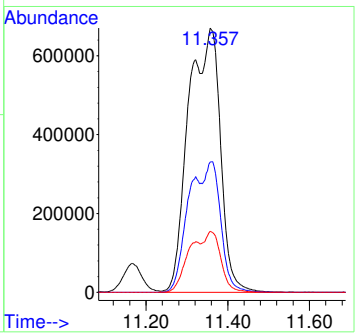


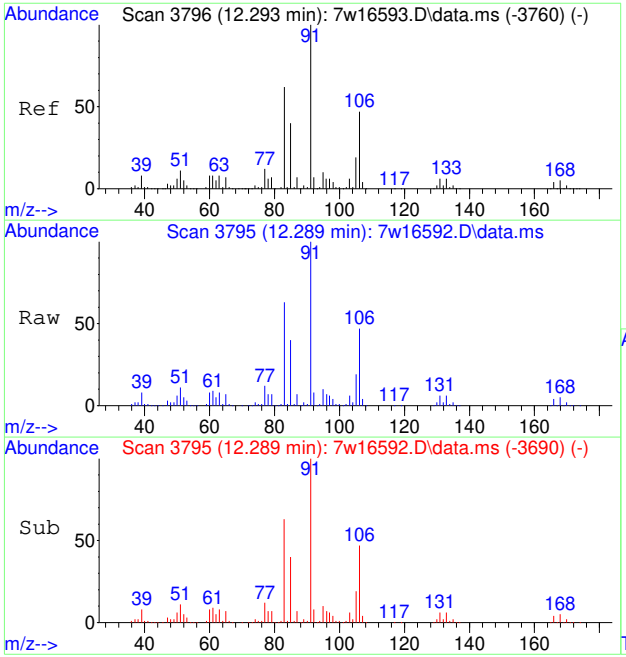


#80
M,P-XYLENE
Concen: 78.82 PPBV
RT: 11.357 min Scan# 3505
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 3630117

Ion	Ratio	Lower	Upper
91	100		
106	25.9	0.0	56.1
105	13.4	0.0	42.1

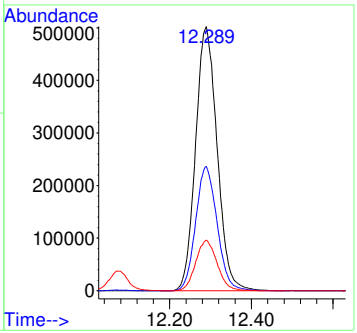


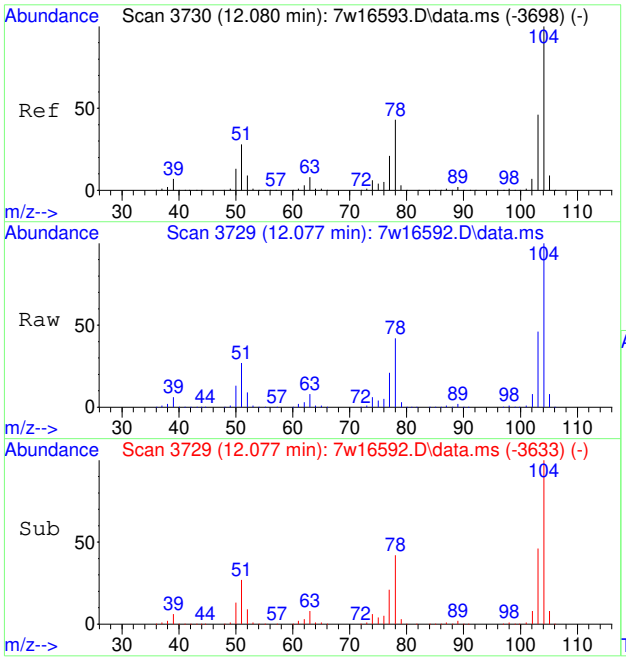


#81
O-XYLENE
Concen: 41.40 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1842699

Ion	Ratio	Lower	Upper
91	100		
106	47.1	31.8	59.0
105	19.2	13.0	24.2

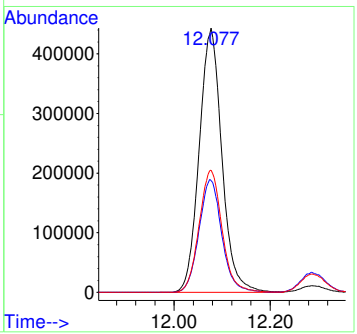


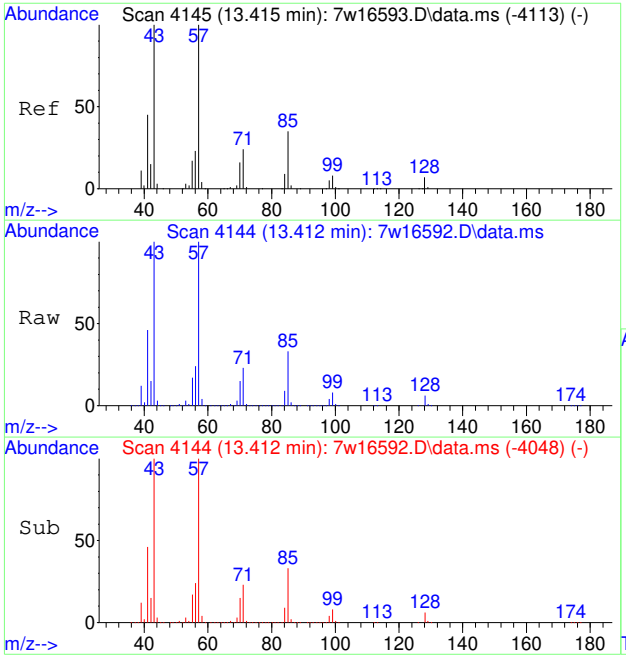


#82
STYRENE
Concen: 44.73 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:104 Resp: 1452853

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.8	32.8	61.0

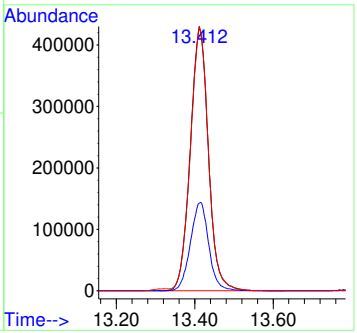


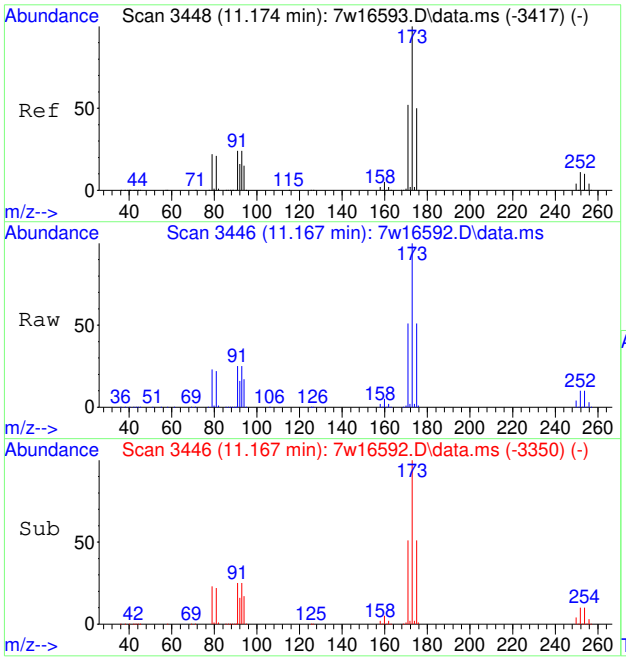


#83
NONANE
Concen: 39.45 PPBV
RT: 13.412 min Scan# 4144
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1380586

Ion	Ratio	Lower	Upper
43	100		
85	33.8	23.4	43.4
57	100.5	69.2	128.6

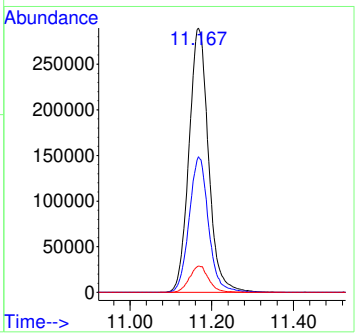


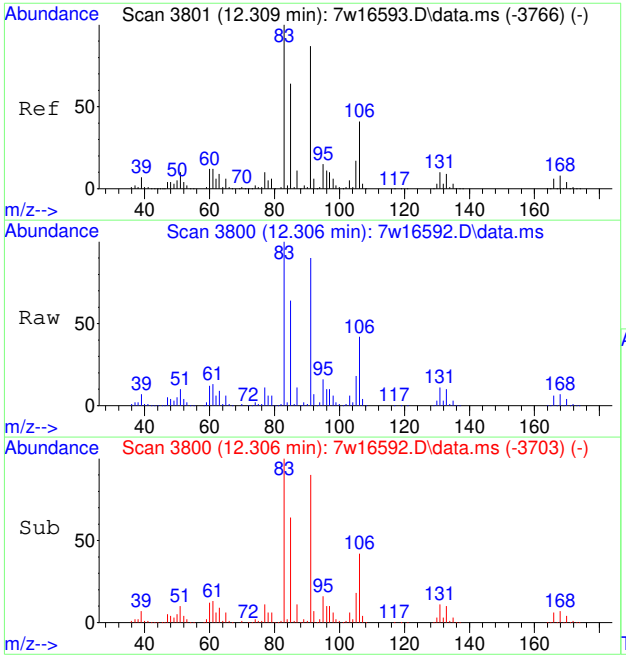


#84
BROMOFORM
Concen: 47.95 PPBV
RT: 11.167 min Scan# 3446
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:173 Resp: 961757

Ion	Ratio	Lower	Upper
173	100		
175	50.8	35.1	65.1
254	9.9	6.7	12.5

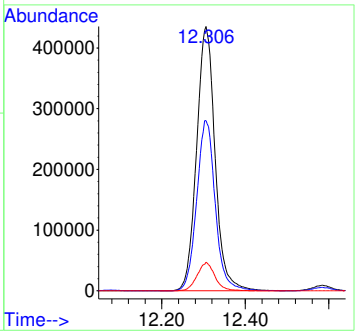


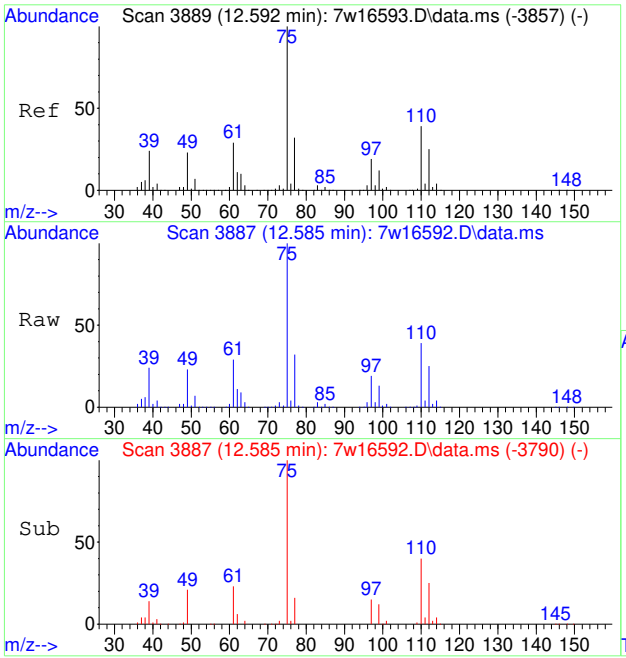


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 42.27 PPBV
RT: 12.306 min Scan# 3800
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1339122

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.4	7.3	13.5

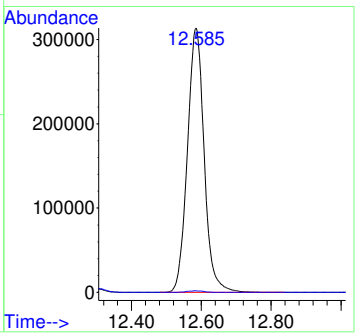


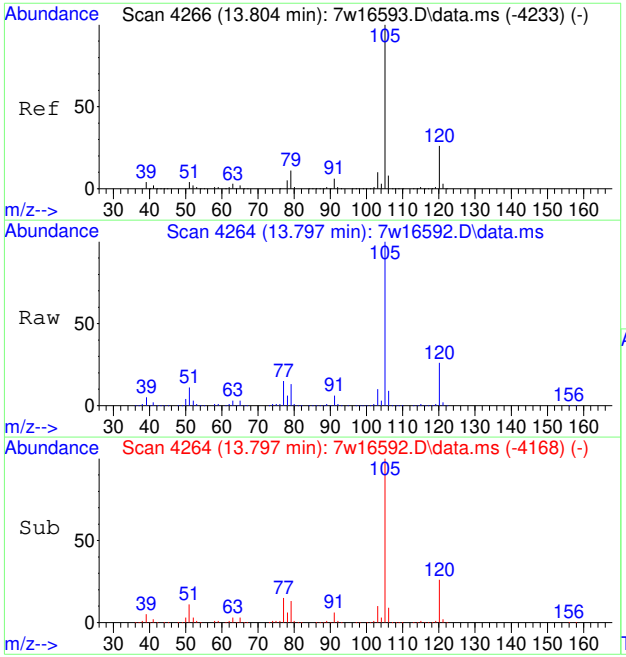


#86
1,2,3-TRICHLOROPROPANE
Concen: 42.19 PPBV
RT: 12.585 min Scan# 3887
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 1047163

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

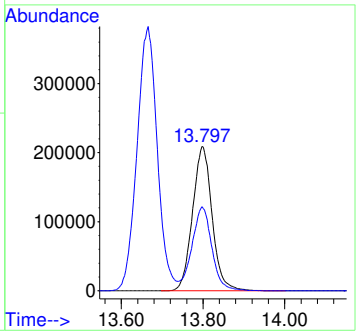


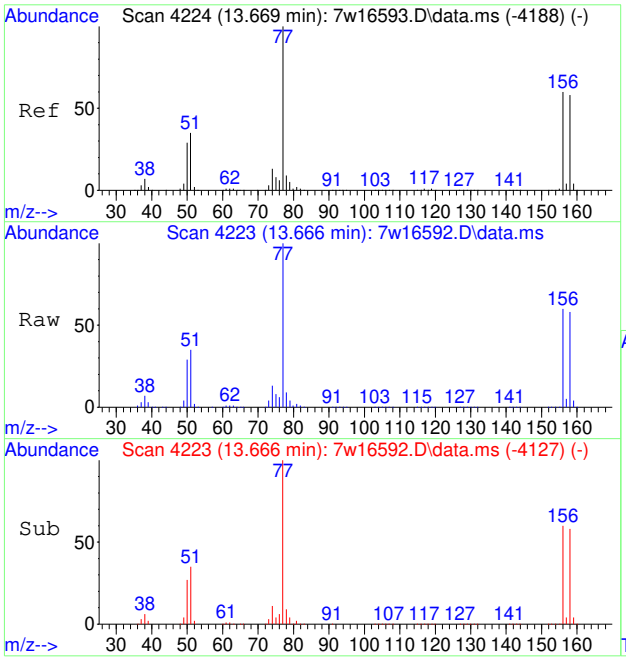


#88
ISOPROPYLBENZENE
Concen: 41.27 PPBV
RT: 13.797 min Scan# 4264
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 695388

Ion	Ratio	Lower	Upper
120	100		
77	59.7	42.5	78.9

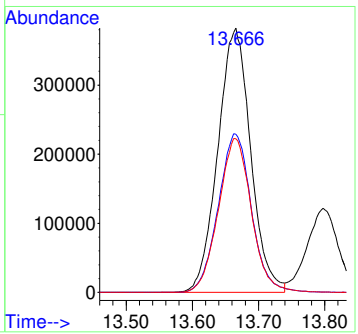


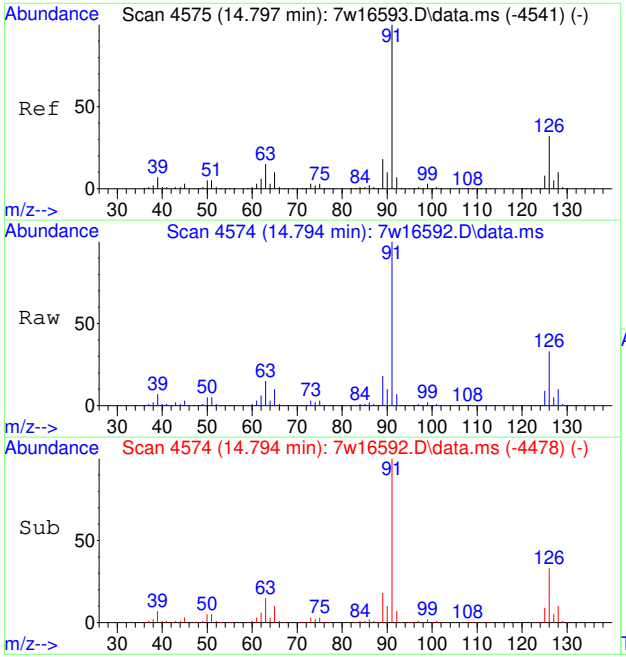


#89
BROMOBENZENE
Concen: 40.55 PPBV
RT: 13.666 min Scan# 4223
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 77 Resp: 1318537

Ion	Ratio	Lower	Upper
77	100		
156	60.7	42.4	78.8
158	58.7	40.9	76.0

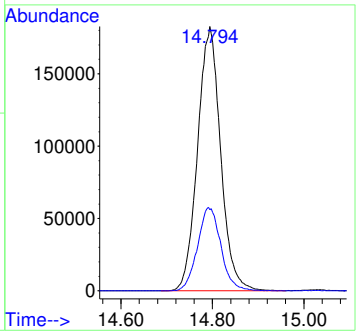


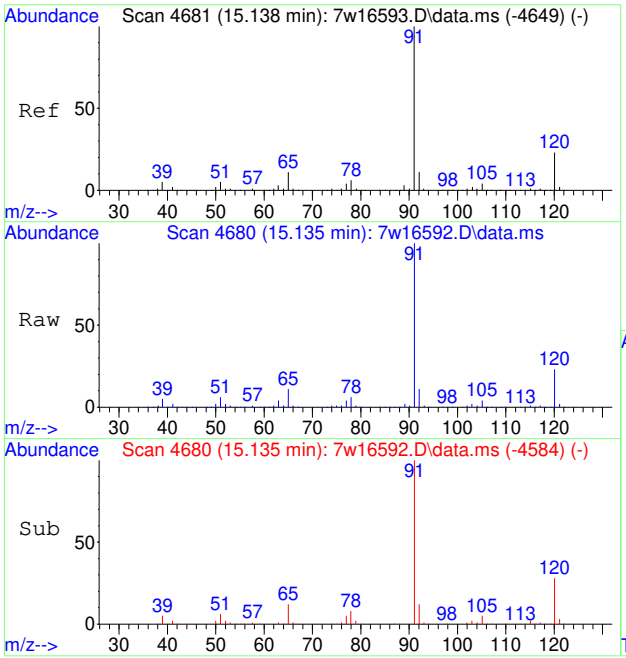


#90
2-CHLOROTOLUENE
Concen: 41.17 PPBV
RT: 14.794 min Scan# 4574
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:126 Resp: 639043

Ion	Ratio	Lower	Upper
126	100		
128	32.0	22.5	41.7

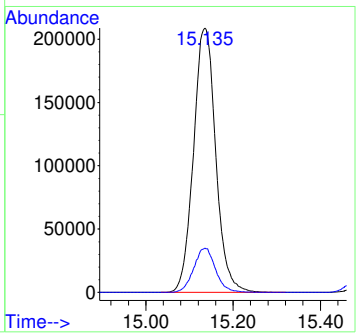


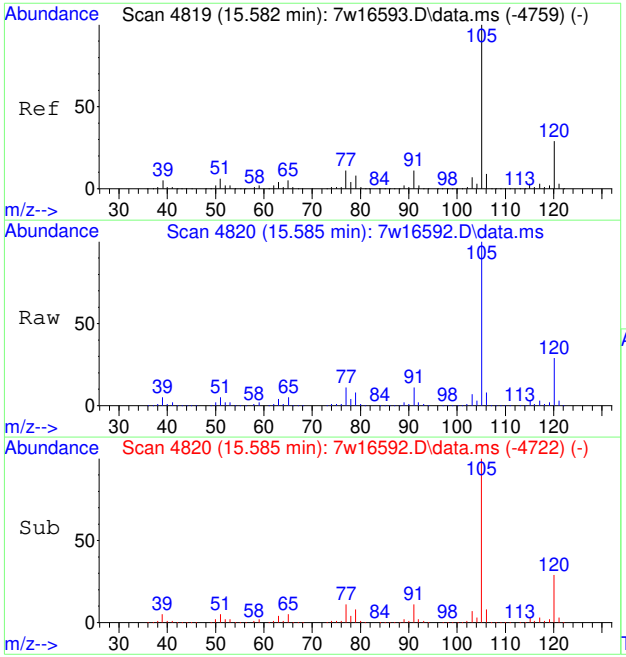


#91
N-PROPYLBENZENE
Concen: 42.04 PPBV
RT: 15.135 min Scan# 4680
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 740280

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

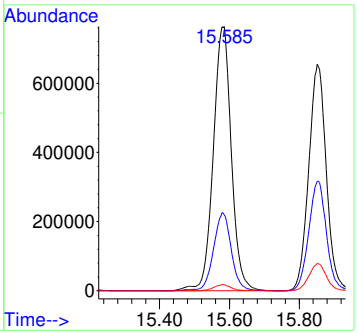


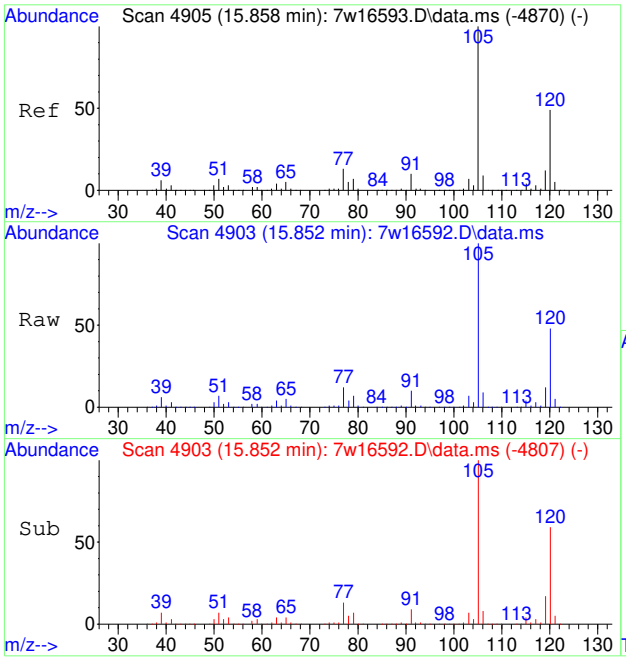


#92
4-ETHYLTOLUENE
Concen: 42.04 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2747294

Ion	Ratio	Lower	Upper
105	100		
120	29.2	20.7	38.5
119	2.2	1.6	3.0

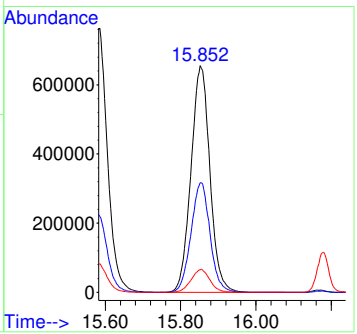


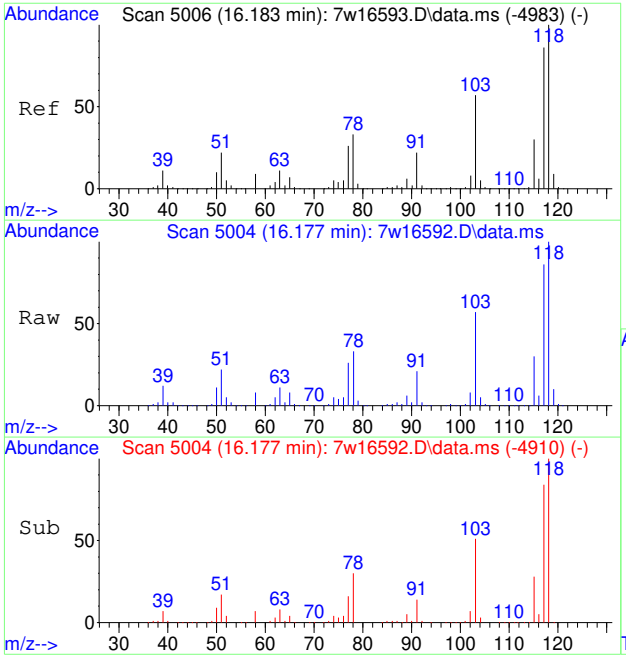


#93
1,3,5-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 15.852 min Scan# 4903
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2286498

Ion	Ratio	Lower	Upper
105	100		
120	48.6	34.0	63.2
91	10.1	7.3	13.7

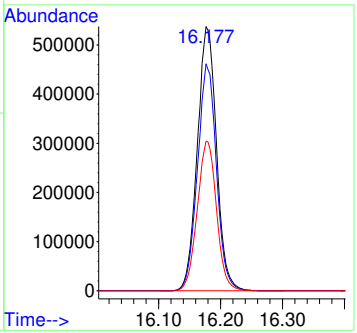


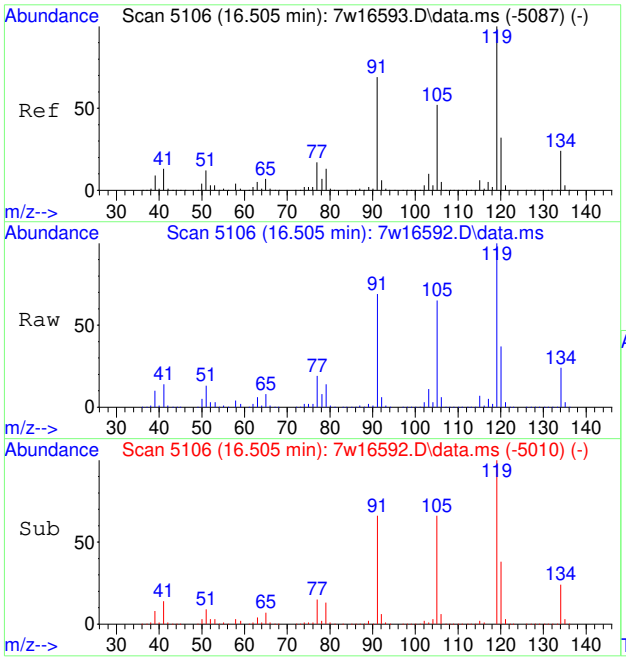


#94
ALPHA-METHYLSTYRENE
Concen: 43.69 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:118 Resp: 1155488

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.6	110.8
103	56.9	40.3	74.9

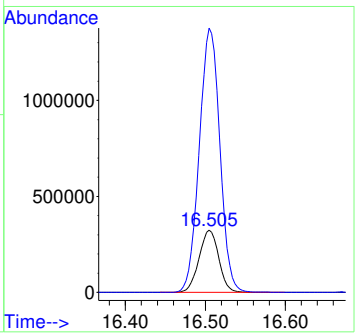


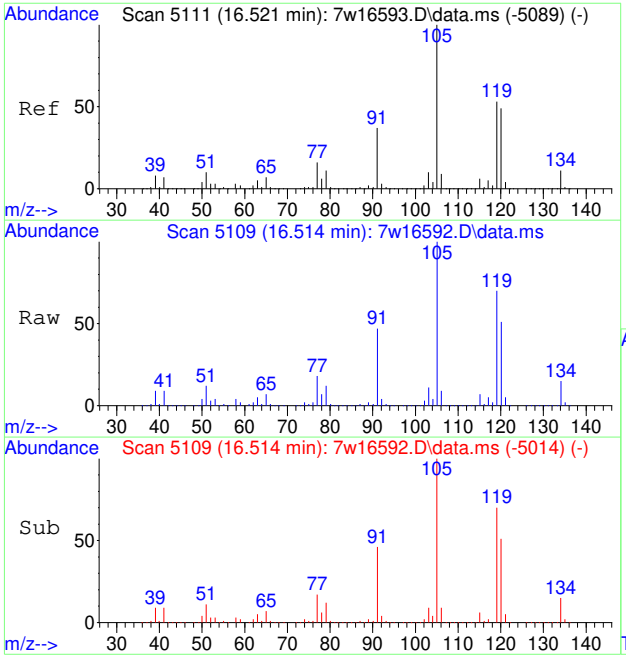


#95
TERT-BUTYLBENZENE
Concen: 41.12 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 554595

Ion	Ratio	Lower	Upper
134	100		
119	444.1	311.3	578.1

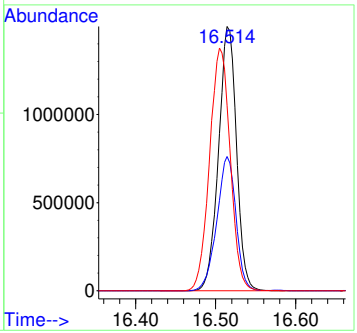


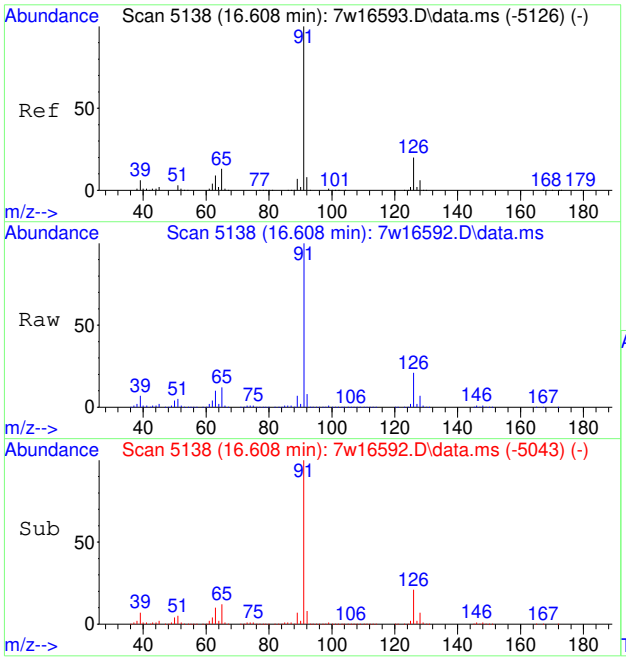


#96
1,2,4-TRIMETHYLBENZENE
Concen: 43.35 PPBV
RT: 16.514 min Scan# 5109
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2336862

Ion	Ratio	Lower	Upper
105	100		
120	54.3	37.9	70.5
119	105.4	74.3	137.9

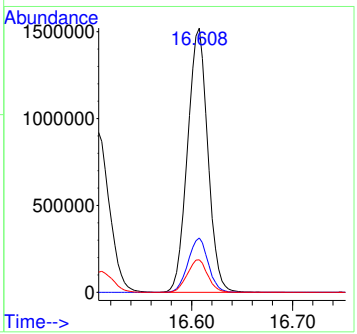


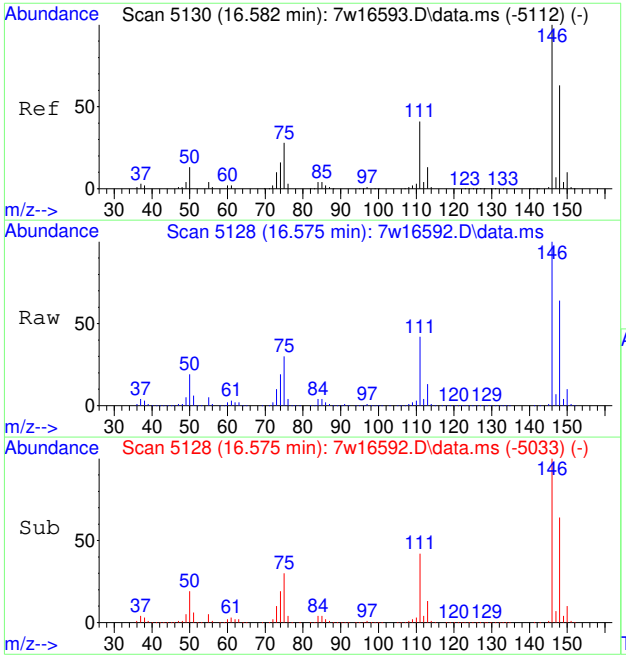


#97
BENZYL CHLORIDE
Concen: 52.85 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2115310

Ion	Ratio	Lower	Upper
91	100		
126	20.5	14.3	26.5
65	12.5	9.2	17.0

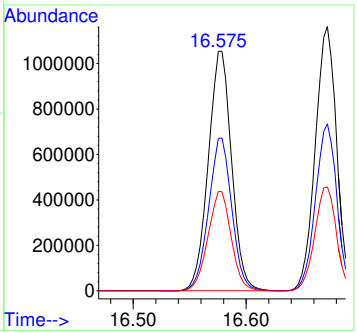


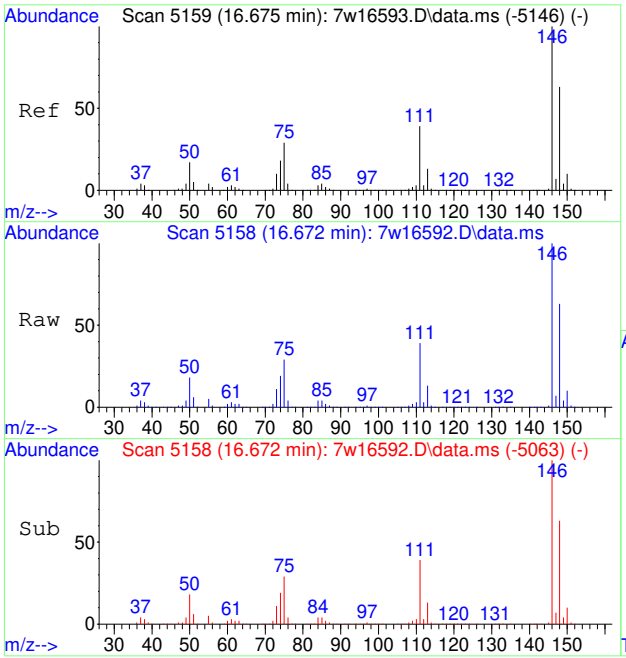


#98
M-DICHLOROBENZENE
Concen: 40.35 PPBV
RT: 16.575 min Scan# 5128
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1509487

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	41.3	29.3	54.3

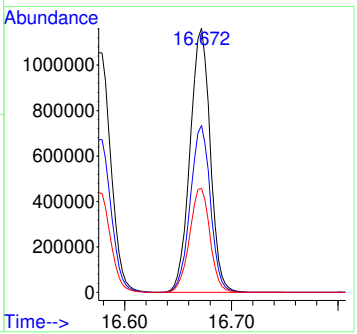


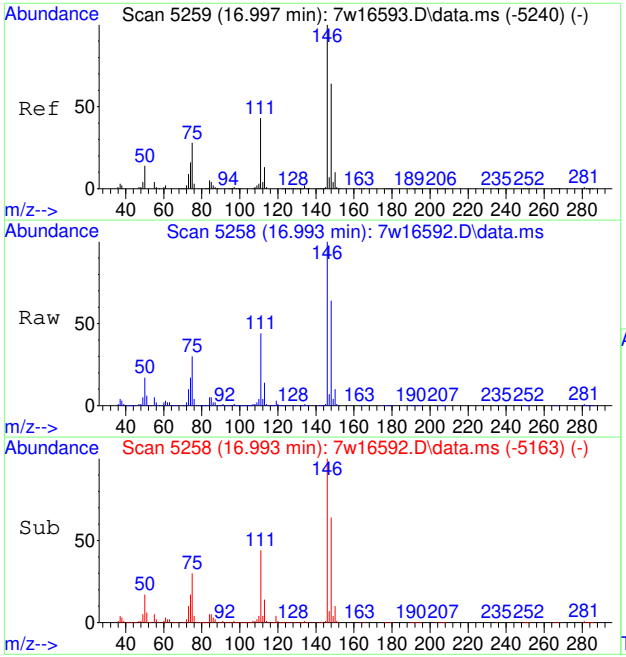


#99
P-DICHLOROBENZENE
Concen: 41.45 PPBV
RT: 16.672 min Scan# 5158
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1527061

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.2	82.2
111	39.9	28.0	52.0

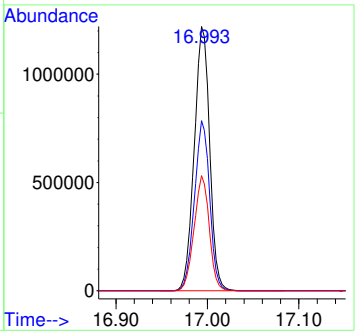


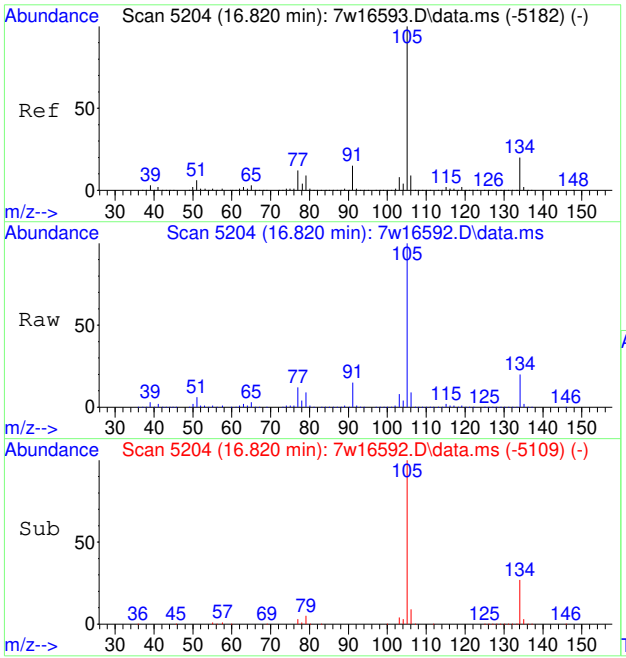


#100
O-DICHLOROBENZENE
Concen: 41.29 PPBV
RT: 16.993 min Scan# 5258
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1428015

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.2	82.2
111	42.9	30.4	56.4

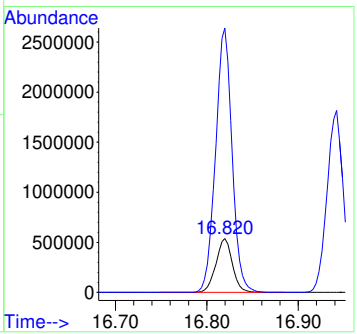


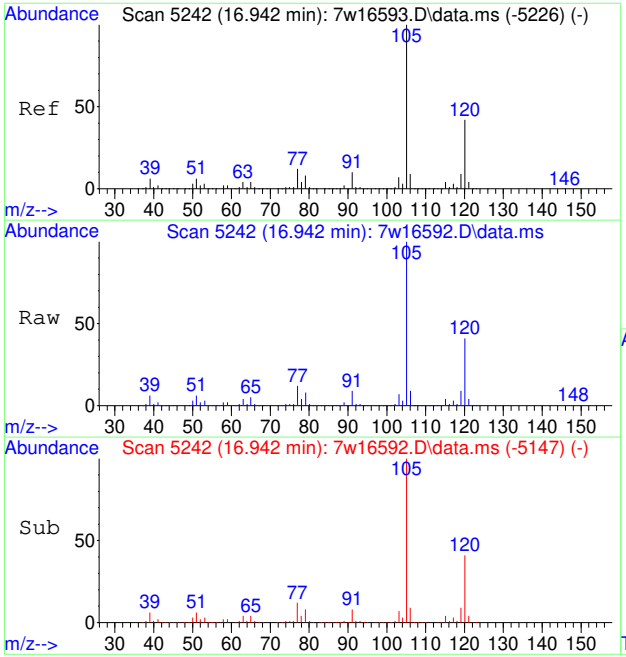


#101
SEC-BUTYLBENZENE
Concen: 42.40 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 675130

Ion	Ratio	Lower	Upper
134	100		
105	492.7	344.8	640.3

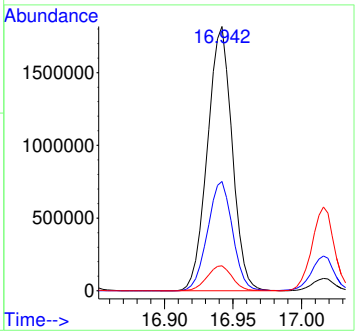


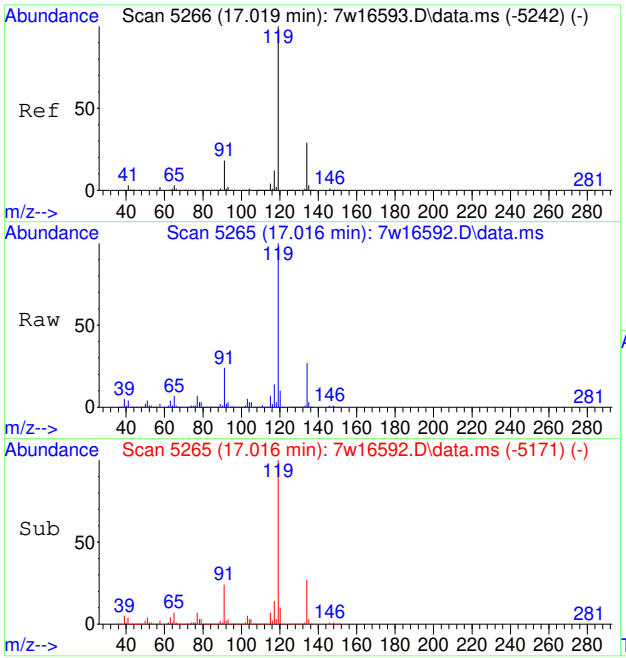


#102
1,2,3-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2270987

Ion	Ratio	Lower	Upper
105	100		
120	41.9	29.3	54.3
91	9.8	7.0	13.0

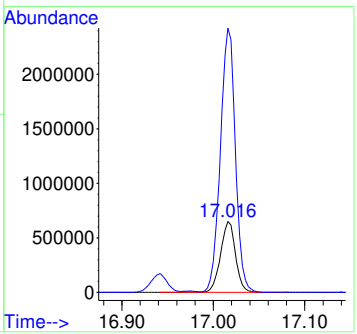


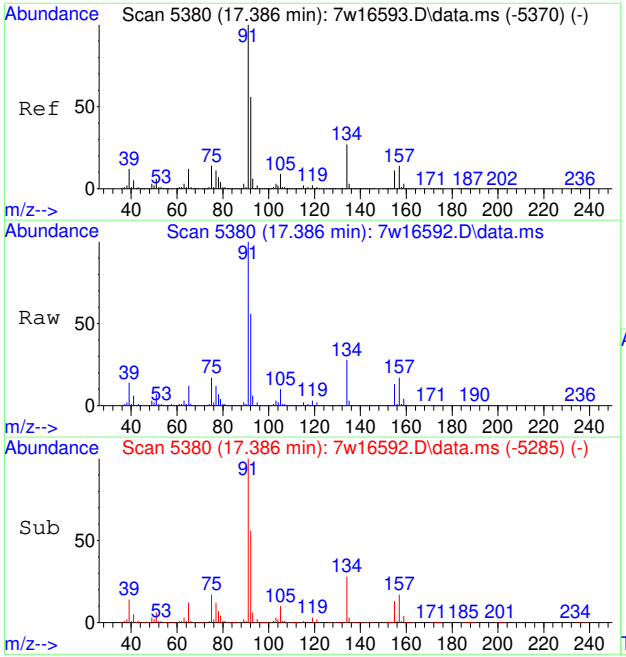


#103
P-ISOPROPYLTOLUENE
Concen: 42.05 PPBV
RT: 17.016 min Scan# 5265
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 742541

Ion	Ratio	Lower	Upper
134	100		
119	374.5	261.4	485.4

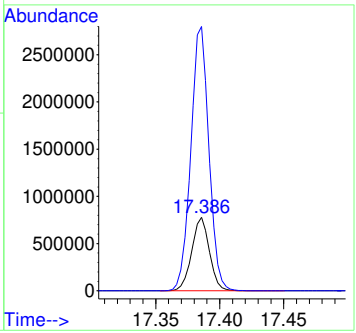


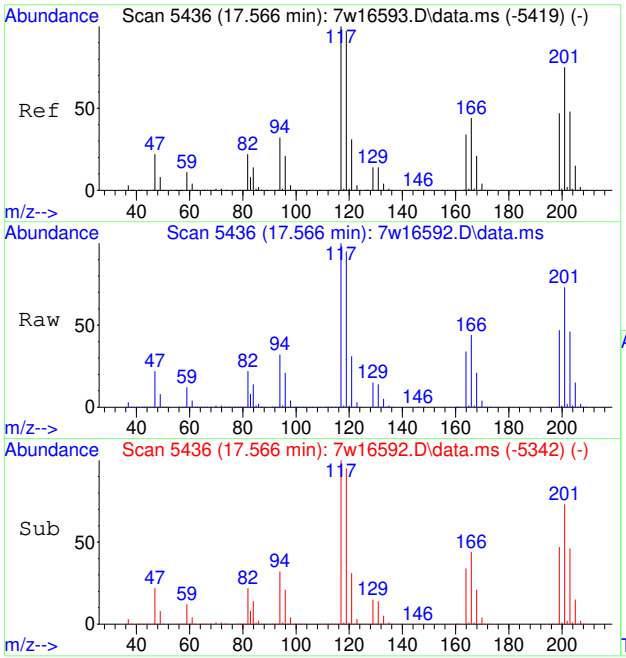


#104
N-BUTYLBENZENE
Concen: 45.09 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 743410

Ion	Ratio	Lower	Upper
134	100		
91	369.5	261.0	484.8

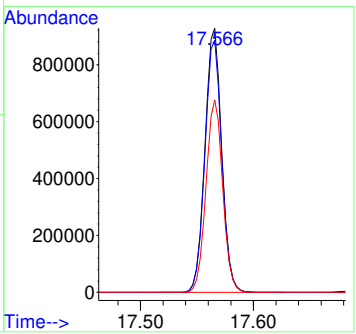


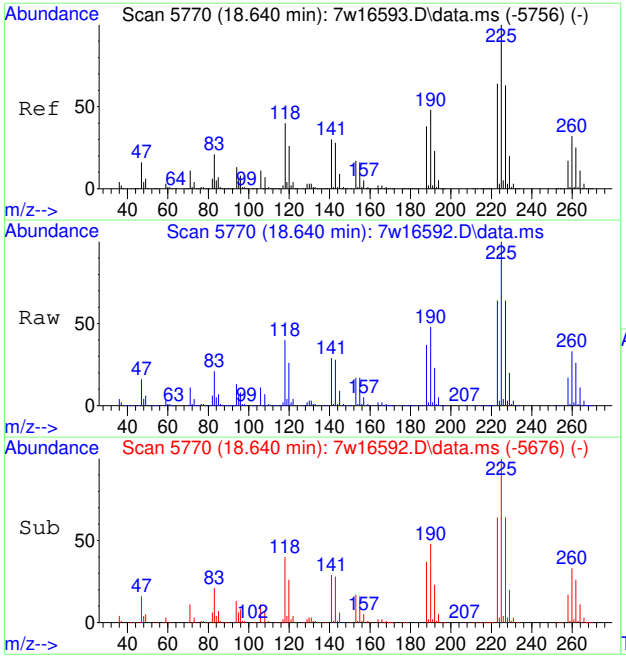


#105
HEXACHLOROETHANE
Concen: 47.76 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 951757

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	72.8	49.8	92.6

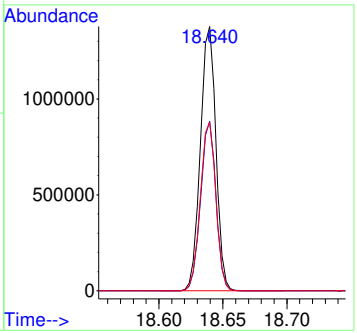


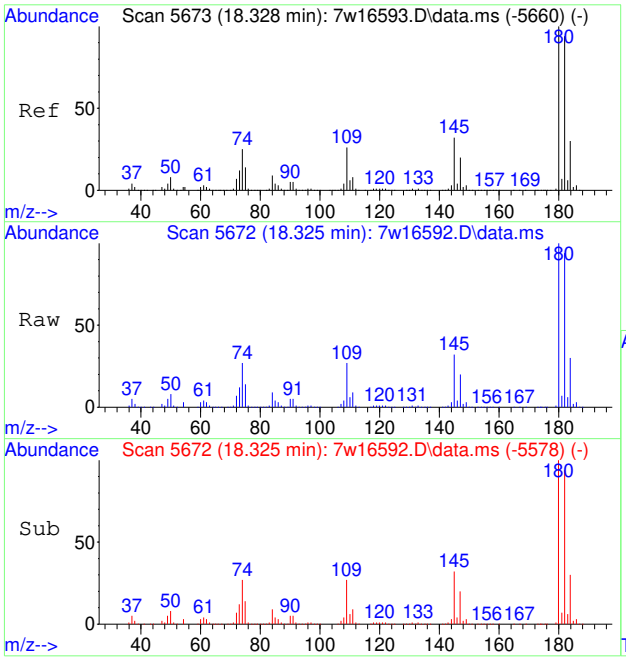


#106
HEXACHLOROBUTADIENE
Concen: 48.46 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:225 Resp: 1162376

Ion	Ratio	Lower	Upper
225	100		
227	63.3	44.6	82.8
223	63.6	44.6	82.8

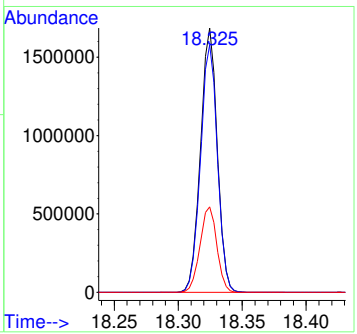


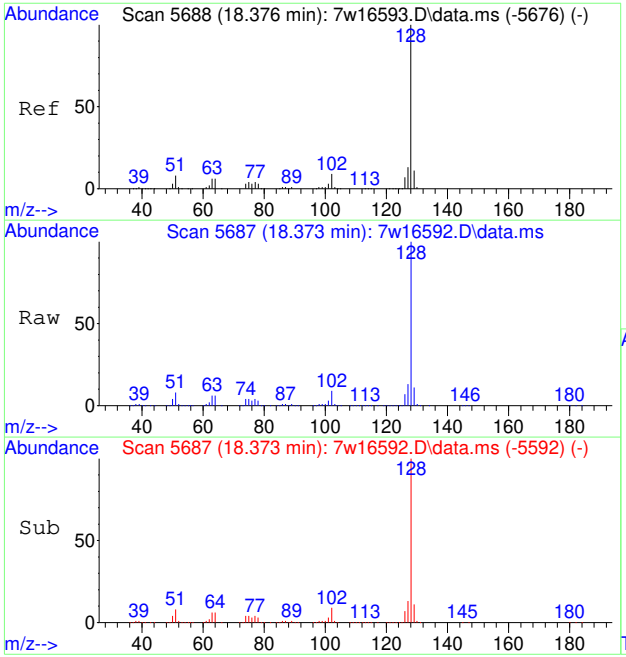


#107
1,2,4-TRICHLOROBENZENE
Concen: 56.96 PPBV
RT: 18.325 min Scan# 5672
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:180 Resp: 1534367

Ion	Ratio	Lower	Upper
180	100		
182	94.5	66.6	123.6
145	32.7	22.5	41.9

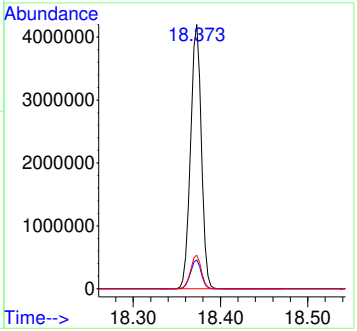


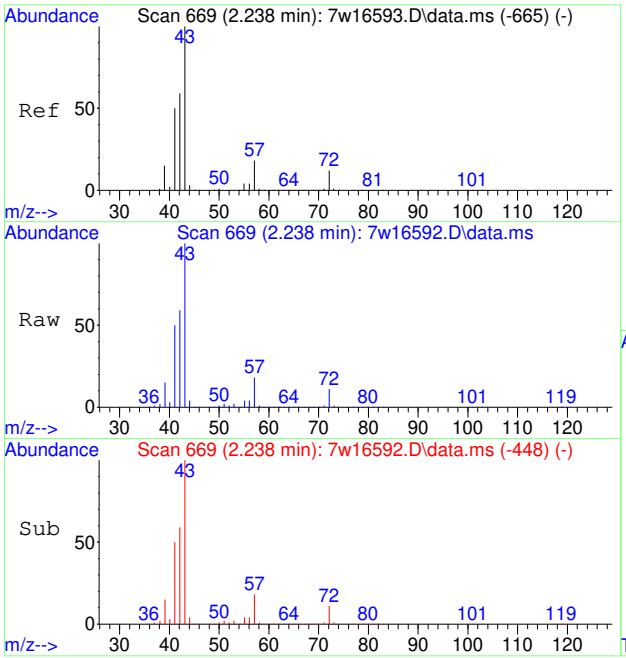


#108
NAPHTHALENE
Concen: 60.99 PPBV
RT: 18.373 min Scan# 5687
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:128 Resp: 3606459

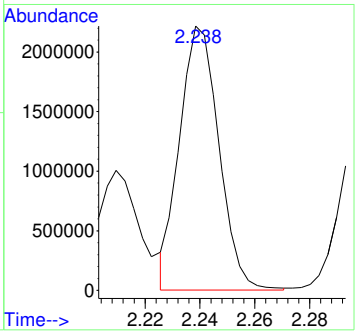
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.7	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 32.90 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:TIC Resp: 2205824



Manual Integration Approval Summary

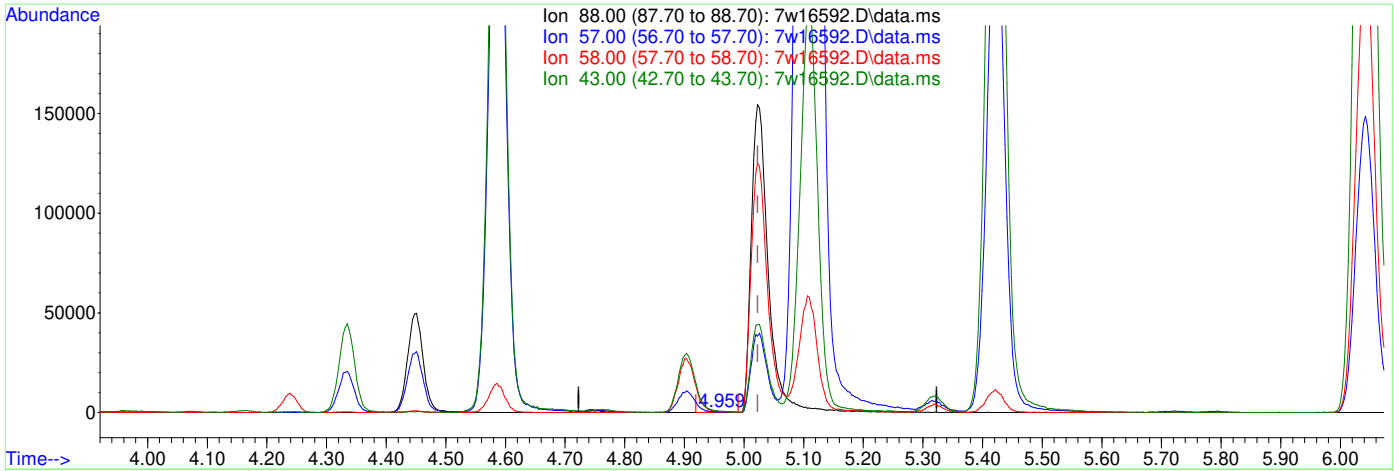
Sample Number: V7W577-IC577
Lab FileID: 7W16592.D
Injection Time: 08/07/25 14:30
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

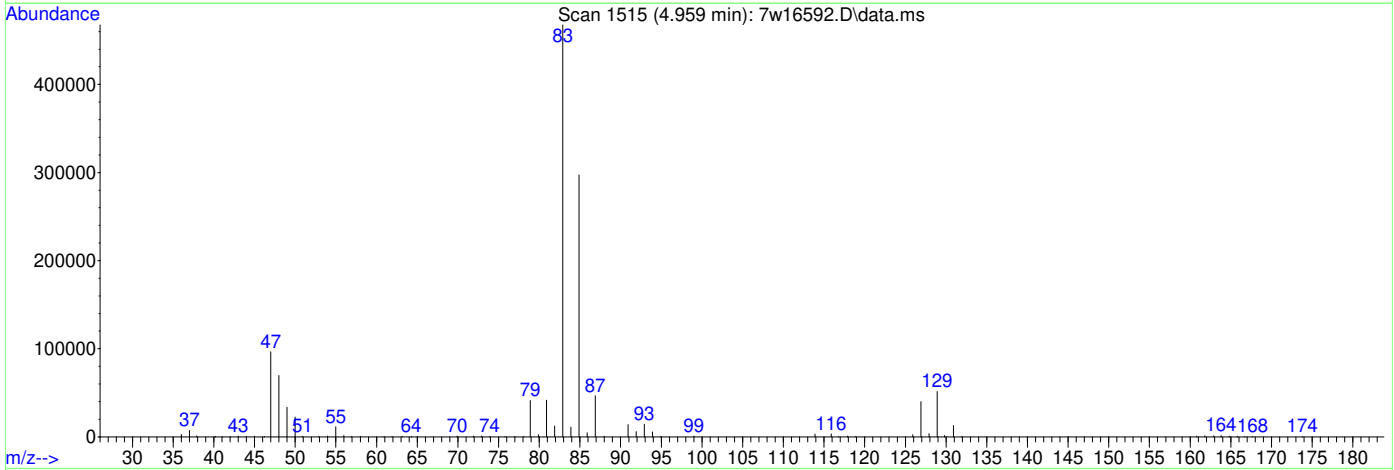
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.02	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

4.959min (-0.064) 0.14PPBV

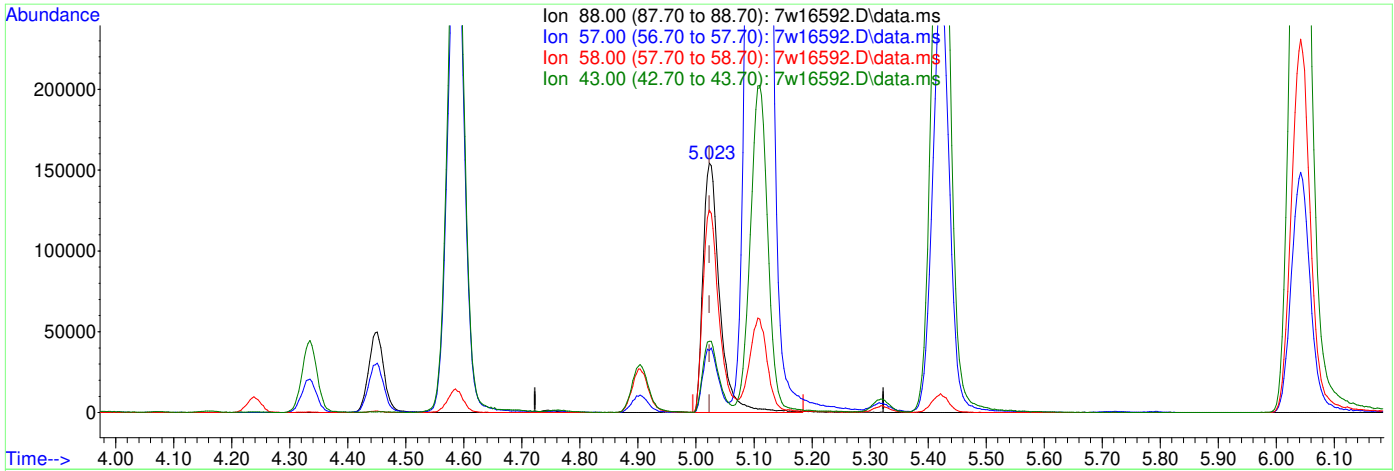
response 1156

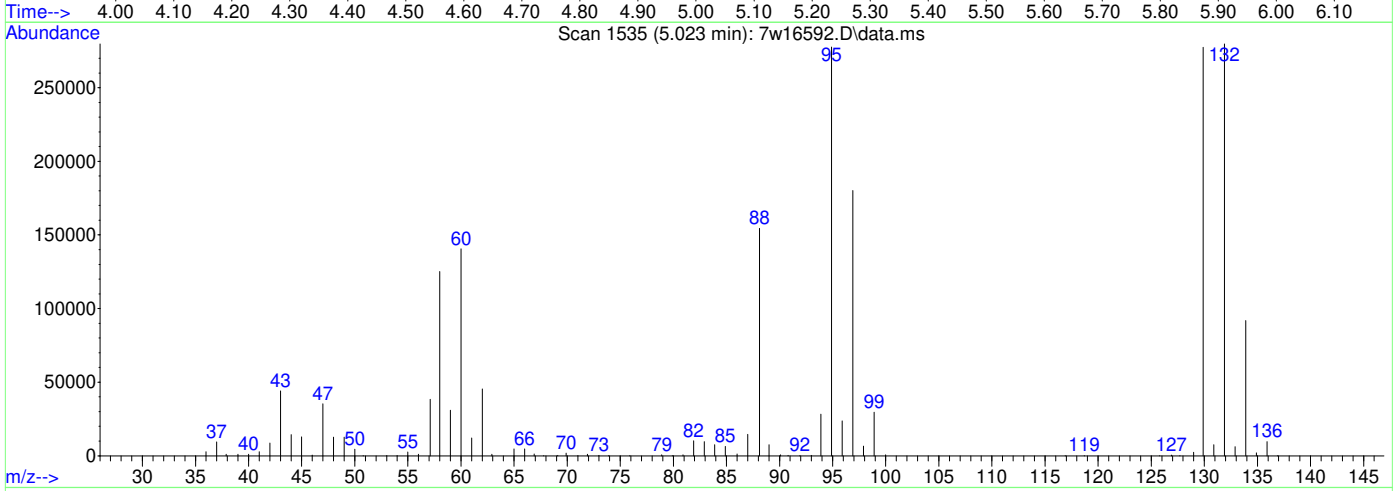
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

5.023min (+0.000) 38.33PPBV m

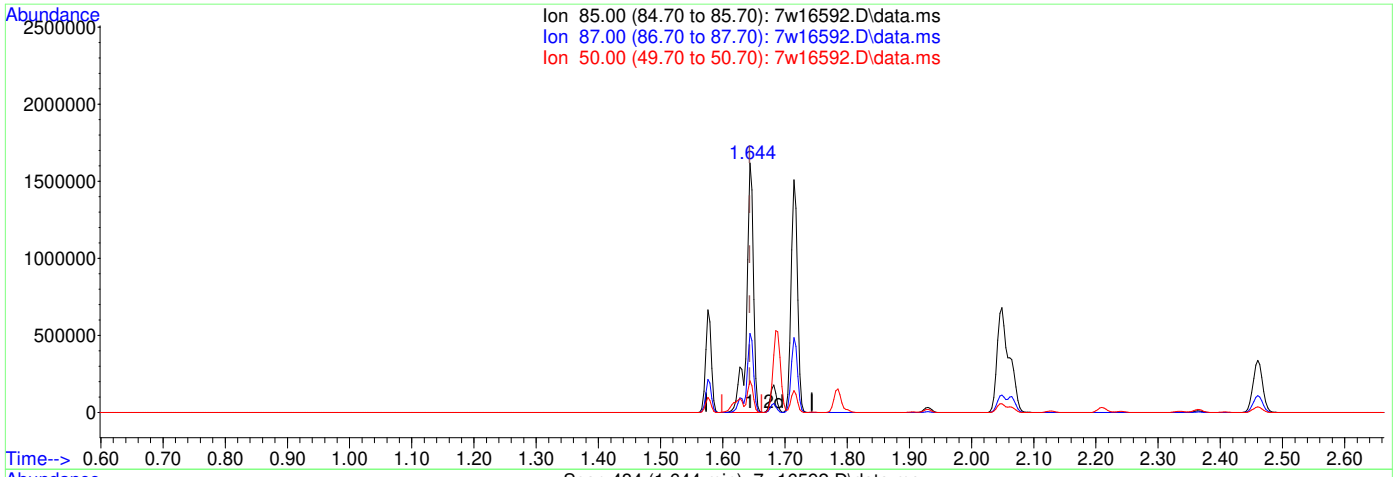
response 307098

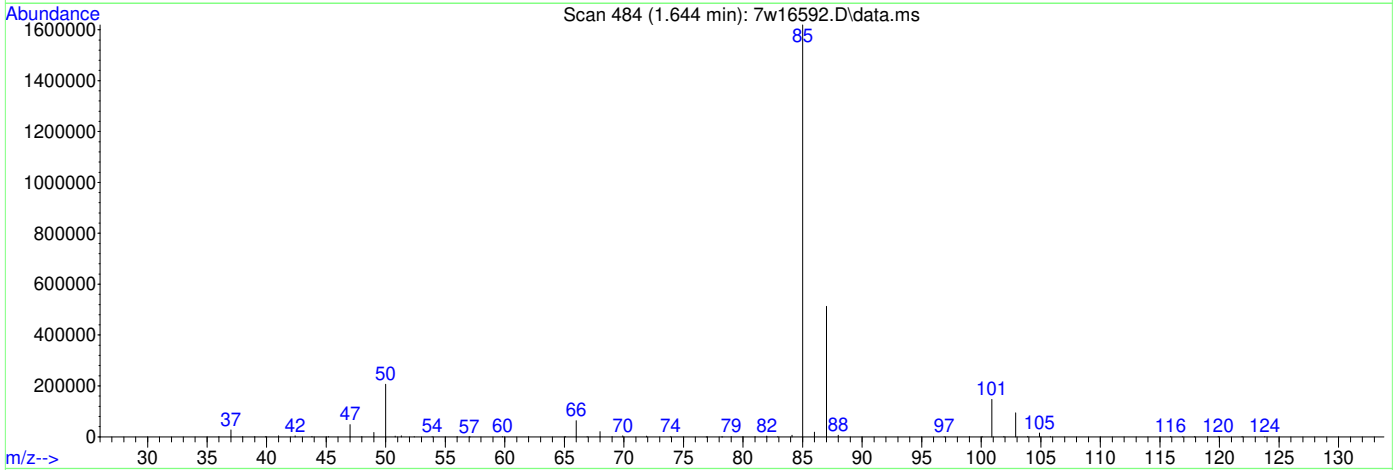
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 39.56PPBV

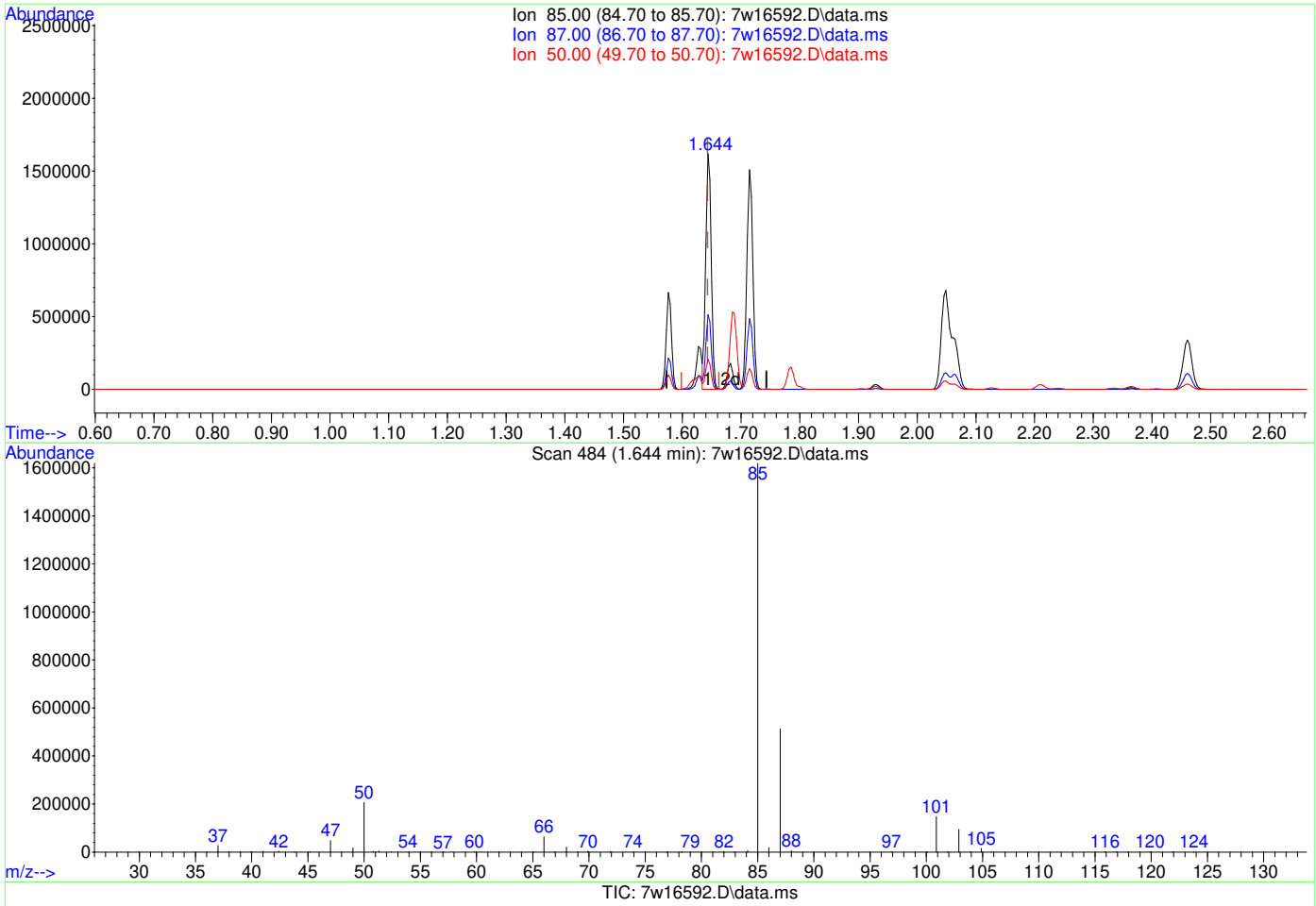
response 1248425

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.14
50.00	19.30	18.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration



TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 33.07PPBV m

response 1043482

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.45
50.00	19.30	22.36
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	105717	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	531881	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	494368	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	105715	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	398017	10.03	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	347161	52.39	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	153687	53.47	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	766747	56.03	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	1341049m	44.53	PPBV		
7) PROPYLENE	1.627	41	437361	50.49	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1168248	51.17	PPBV		99
9) FREON 114	1.714	85	1366824	52.31	PPBV		99
10) CHLOROMETHANE	1.688	52	180379	48.75	PPBV		99
11) VINYL CHLORIDE	1.746	62	644820	49.80	PPBV		100
12) 1,3-BUTADIENE	1.785	54	492846	47.75	PPBV		98
13) N-BUTANE	1.801	43	861032	49.00	PPBV		99
14) BROMOMETHANE	1.859	94	489029	48.47	PPBV		99
15) CHLOROETHANE	1.904	64	335126	47.41	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	1165217	47.65	PPBV		99
17) ACETONITRILE	1.994	41	492619	39.40	PPBV		99
18) ACROLEIN	2.033	56	284178	48.79	PPBV		99
19) FREON 123	2.049	83	1284287	52.41	PPBV		100
20) FREON 123A	2.065	117	752289	51.67	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1332114	47.77	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1144041	47.91	PPBV		99
23) ACETONE	2.071	58	315550	48.52	PPBV		94
24) PENTANE	2.238	42	600441	46.26	PPBV		99
25) IODOMETHANE	2.299	142	1336999	52.52	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	541882	51.15	PPBV		96
27) CARBON DISULFIDE	2.463	76	1536663	51.13	PPBV		97
28) ETHANOL	1.933	45	274276	42.83	PPBV		100
29) BROMOETHENE	2.004	106	503032	50.05	PPBV		100
30) ACRYLONITRILE	2.209	52	465157	51.19	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	488512	46.46	PPBV		94
32) 3-CHLOROPROPENE	2.406	76	282447	50.05	PPBV		93
33) FREON 113	2.460	151	827135	52.05	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	567495	48.66	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	1271463	42.60	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	1685636	50.99	PPBV		99
37) TETRAHYDROFURAN	3.463	72	264475	49.92	PPBV		98
38) HEXANE	3.241	57	1126153	50.43	PPBV		95
39) VINYL ACETATE	2.827	86	168950	54.22	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	1126676	50.17	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	301446	49.43	PPBV		97
42) CIS-1,2-DICHLOROETHENE	3.116	96	616786	51.36	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	322160	51.01	PPBV		92
44) ETHYL ACETATE	3.251	61	229745	54.48	PPBV		86
45) METHYL ACRYLATE	3.238	55	1386411	51.53	PPBV	#	100
46) CHLOROFORM	3.264	83	1180563	50.69	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1310498	52.75	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1267195	51.99	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1338340	53.55	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	918746	51.11	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	BENZENE	4.129	78	1795488	50.31	PPBV	99
53)	CYCLOHEXANE	4.335	84	810673	52.10	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.589	71	421378	54.59	PPBV	99
55)	TRICHLOROETHENE	5.020	95	808299	48.49	PPBV	99
56)	1,2-DICHLOROPROPANE	4.788	63	756985	51.61	PPBV	99
57)	DIBROMOMETHANE	4.749	174	703285	49.34	PPBV	98
58)	ETHYL ACRYLATE	4.907	55	1751040	53.53	PPBV	100
59)	BROMODICHLOROMETHANE	4.968	83	1363903	51.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	3474233	47.72	PPBV	100
61)	1,4-DIOXANE	5.023	88	402995	51.97	PPBV	98
62)	HEPTANE	5.421	43	1183014	49.34	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	696280	52.38	PPBV	96
64)	METHYL ISOBUTYL KETONE	6.045	58	692709	48.13	PPBV	98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	1209649	54.68	PPBV	97
66)	TOLUENE	7.138	91	2257380	53.54	PPBV	99
67)	1,3-DICHLOROPROPANE	7.200	76	1150031	54.57	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	1086853	55.09	PPBV	98
69)	1,1,2-TRICHLOROETHANE	6.772	83	657452	55.07	PPBV	99
70)	2-HEXANONE	7.701	58	931287	45.78	PPBV	97
71)	ETHYL METHACRYLATE	7.839	69	1191952	54.01	PPBV	98
72)	TETRACHLOROETHENE	8.852	164	838148	54.58	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.666	129	1403452	58.86	PPBV	100
74)	1,2-DIBROMOETHANE	8.010	107	1223967	56.46	PPBV	100
75)	OCTANE	9.003	43	1670114	52.30	PPBV	99
77)	1,1,1,2-TETRACHLOROETHANE	10.068	131	1014574	57.95	PPBV	100
78)	CHLOROBENZENE	10.055	112	1847440	54.82	PPBV	99
79)	ETHYLBENZENE	10.936	91	3062670	55.49	PPBV	100
80)	M,P-XYLENE	11.363	91	4688509	104.27	PPBV	90
81)	O-XYLENE	12.293	91	2383048	54.76	PPBV	98
82)	STYRENE	12.080	104	1884473	58.71	PPBV	99
83)	NONANE	13.415	43	1775546	52.08	PPBV	98
84)	BROMOFORM	11.174	173	1265430	63.02	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.309	83	1733579	55.83	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.592	75	1360230	55.93	PPBV	100
88)	ISOPROPYLBENZENE	13.804	120	894931	54.23	PPBV	98
89)	BROMOBENZENE	13.669	77	1702334	53.56	PPBV	99
90)	2-CHLOROTOLUENE	14.797	126	829710	54.34	PPBV	100
91)	N-PROPYLBENZENE	15.138	120	961239	55.42	PPBV	100
92)	4-ETHYLTOLUENE	15.582	105	3566781	55.47	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.858	105	2975442	55.47	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.183	118	1513322	57.73	PPBV	99
95)	TERT-BUTYLBENZENE	16.505	134	714841	54.19	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3037196	57.25	PPBV	99
97)	BENZYL CHLORIDE	16.608	91	2795409	68.69	PPBV	99
98)	M-DICHLOROBENZENE	16.582	146	1958237	53.40	PPBV	100
99)	P-DICHLOROBENZENE	16.675	146	1991134	55.15	PPBV	100
100)	O-DICHLOROBENZENE	16.997	146	1868131	55.08	PPBV	100
101)	SEC-BUTYLBENZENE	16.820	134	879244	56.32	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2956799	55.49	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.019	134	964439	55.64	PPBV	99
104)	N-BUTYLBENZENE	17.386	134	974353	59.74	PPBV	97
105)	HEXACHLOROETHANE	17.566	117	1246101	62.73	PPBV	98
106)	HEXACHLOROBUTADIENE	18.640	225	1541106	64.95	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2093092	76.81	PPBV	99
108)	NAPHTHALENE	18.376	128	4901356	81.19	PPBV	99
110)	TVHC as equiv Pentane	2.238	TIC	2811423	45.25	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

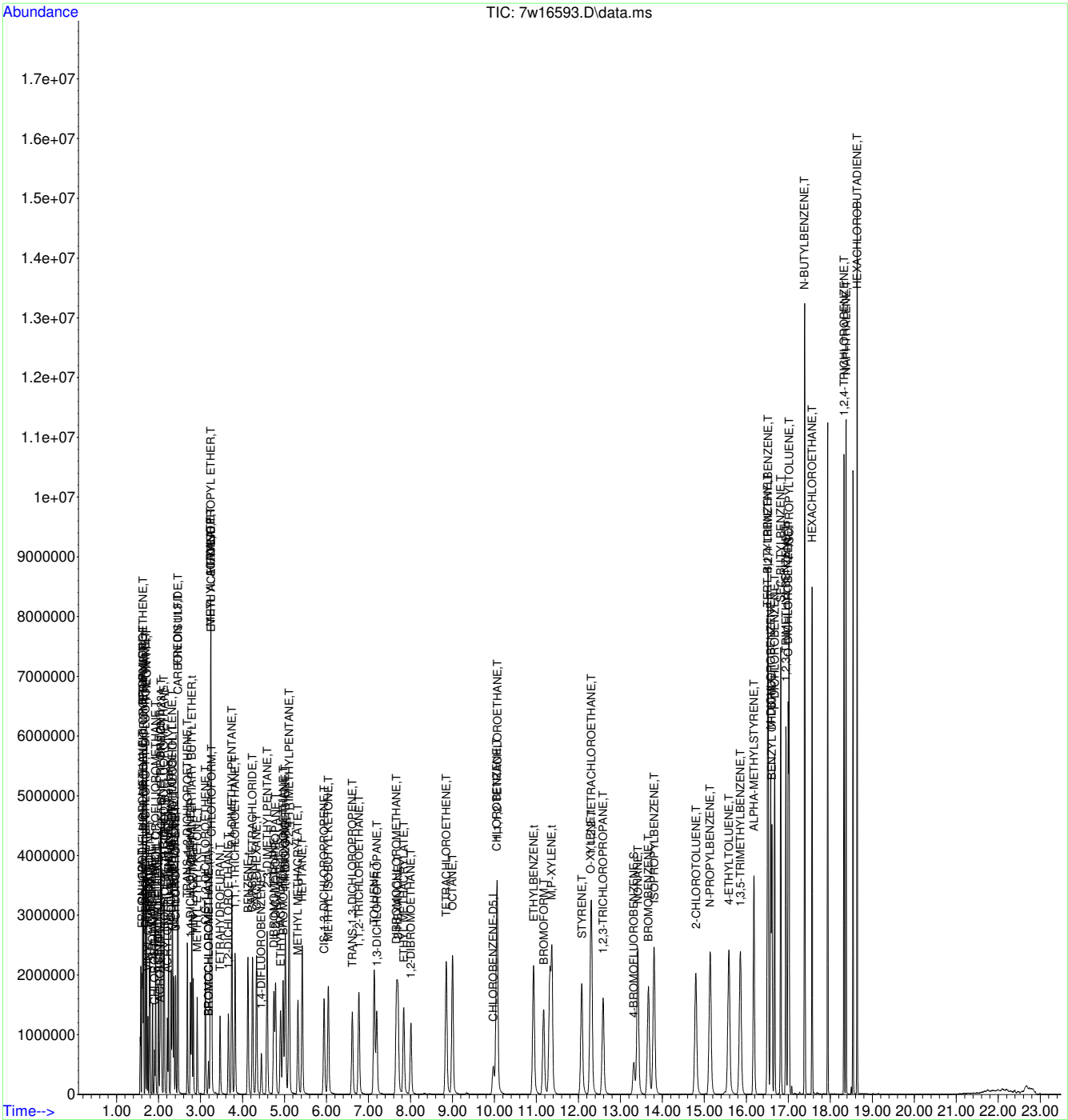
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

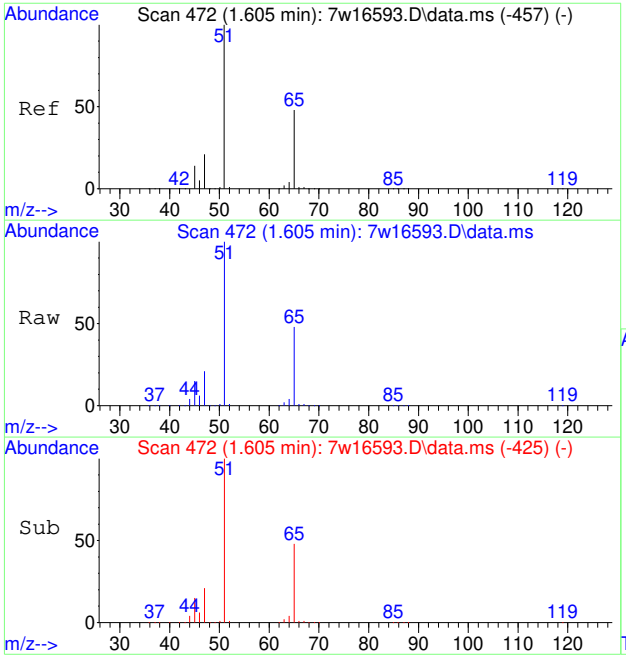
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

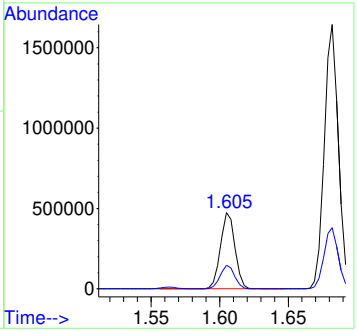


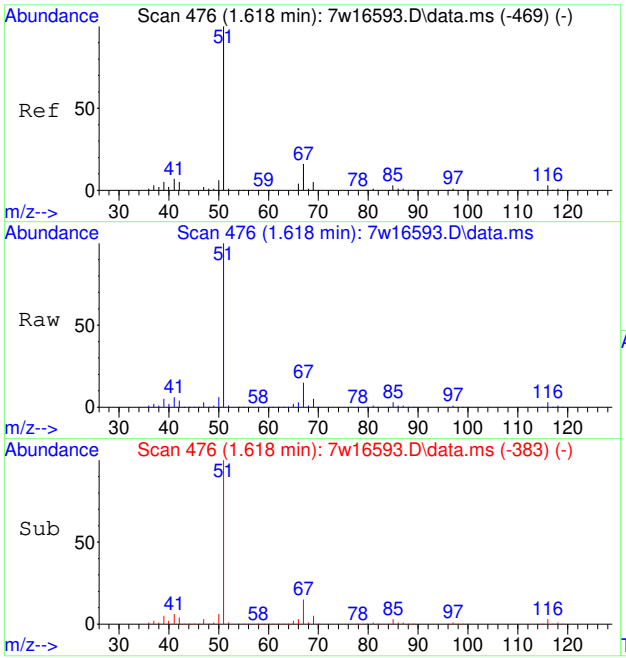


#3
FREON 152A
Concen: 52.39 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 347161

Ion	Ratio	Lower	Upper
65	100		
45	30.7	23.0	42.8

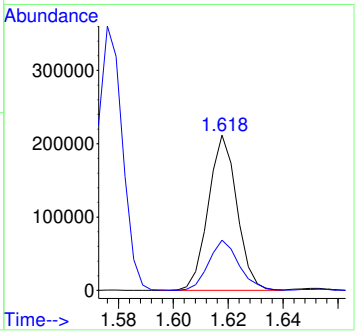


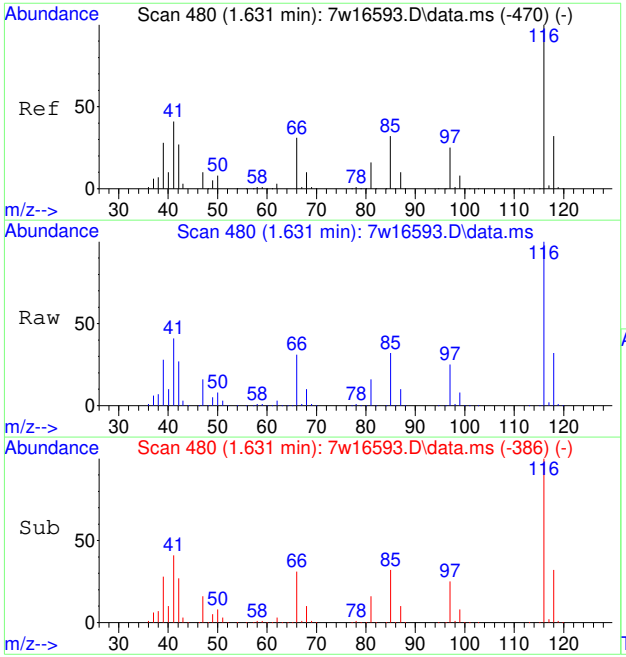


#4
CHLORODIFLUOROMETHANE
Concen: 53.47 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 153687

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

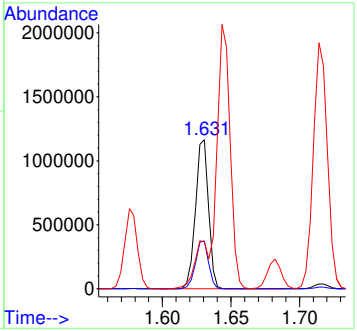


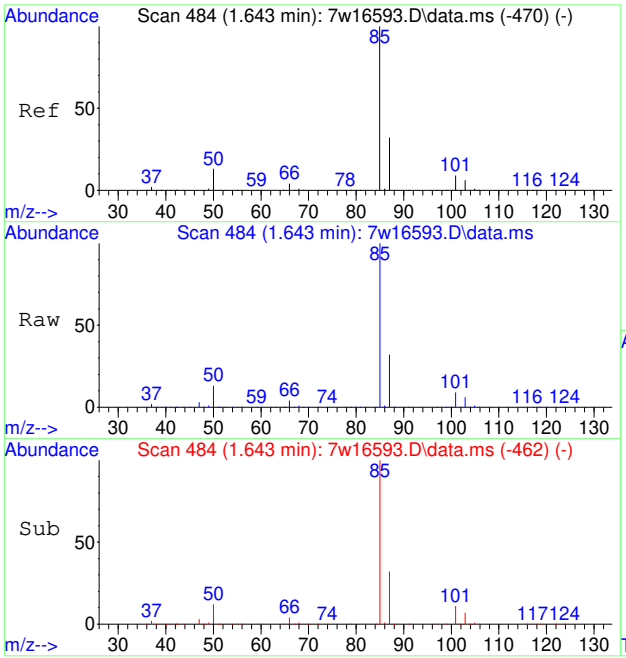


#5
CHLOROTRIFLUOROETHENE
Concen: 56.03 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:116 Resp: 766747

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	209.5	152.4	283.0

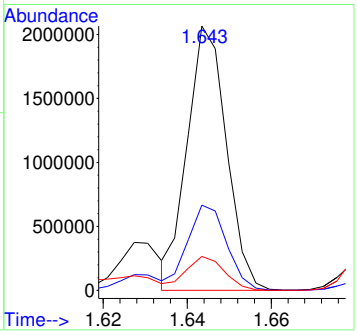


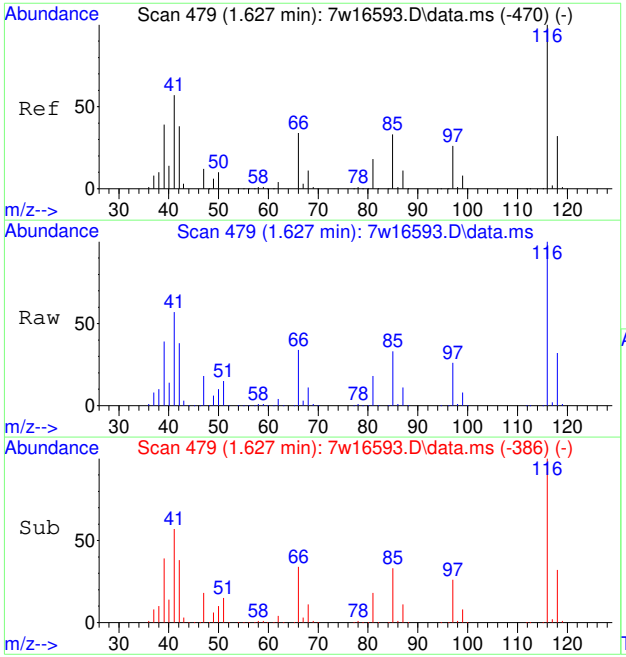


#6
DICHLORODIFLUOROMETHANE
Concen: 44.53 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1341049

Ion	Ratio	Lower	Upper
85	100		
87	38.9	23.0	42.6
50	22.3	13.5	25.1

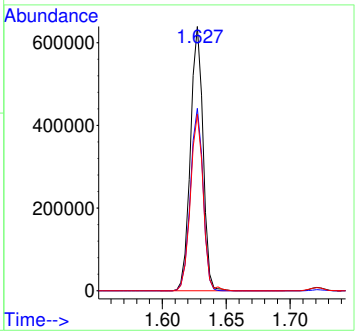


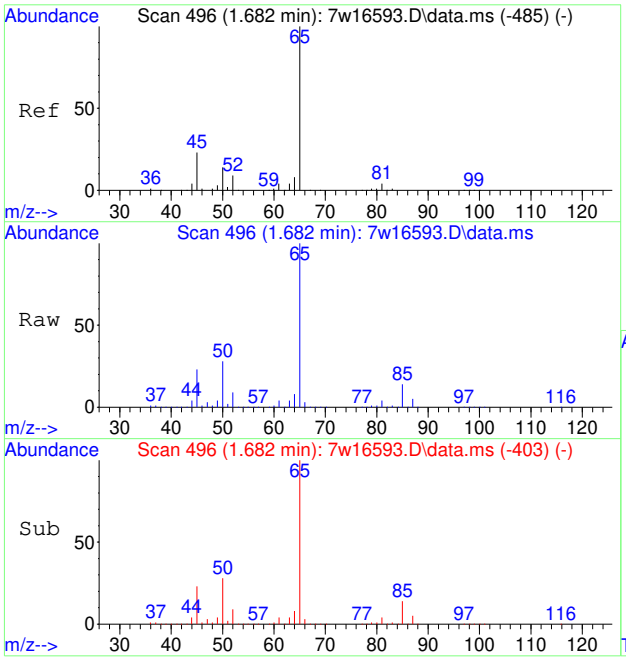


#7
PROPYLENE
Concen: 50.49 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 437361

Ion	Ratio	Lower	Upper
41	100		
39	69.4	50.5	93.7
42	67.7	47.0	87.4

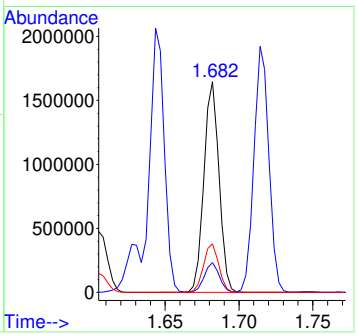


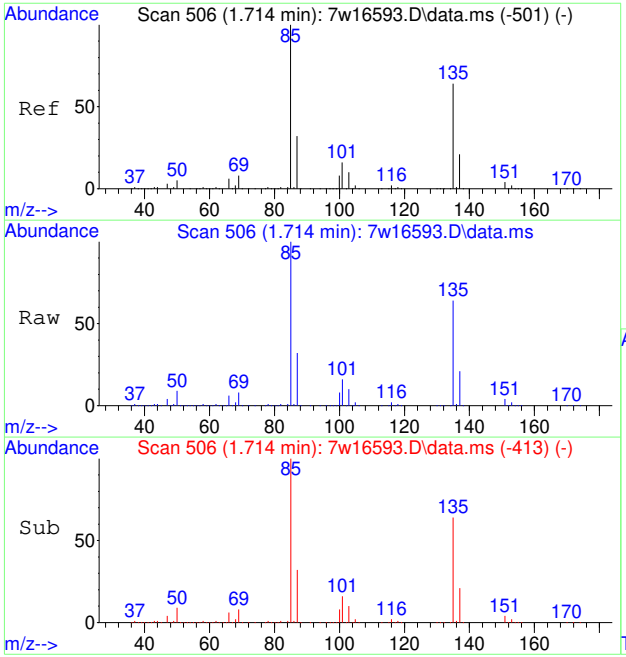


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 51.17 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 1168248

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

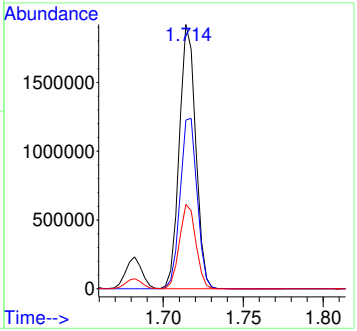


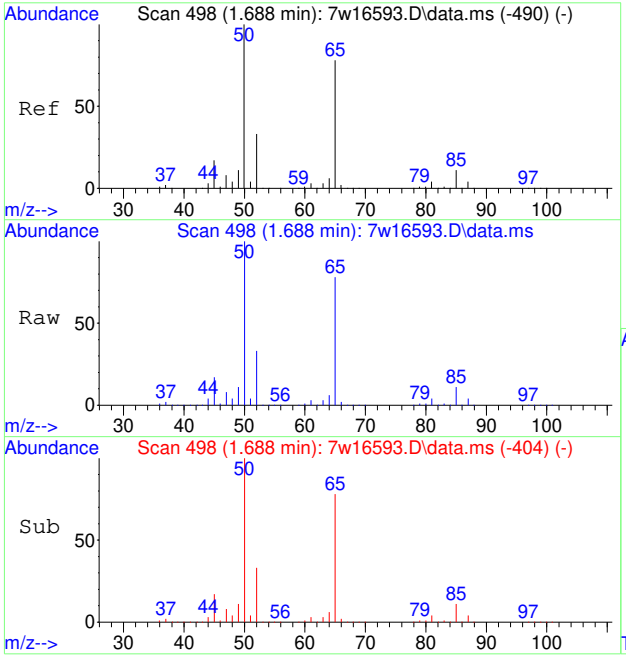


#9
FREON 114
Concen: 52.31 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1366824

Ion	Ratio	Lower	Upper
85	100		
135	66.9	46.1	85.7
87	32.1	22.6	42.0

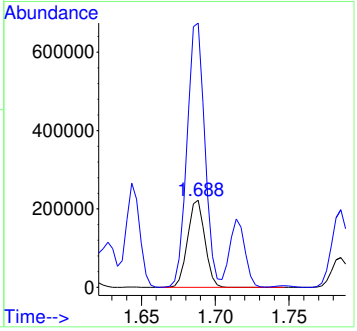


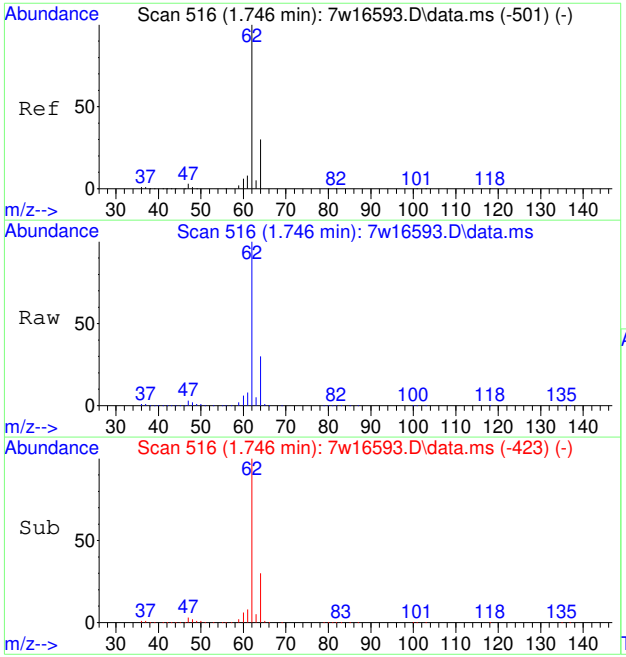


#10
CHLOROMETHANE
Concen: 48.75 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 180379

Ion	Ratio	Lower	Upper
52	100		
50	319.4	225.6	419.0

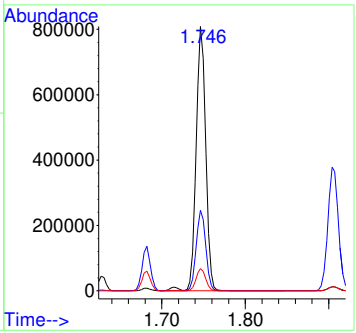


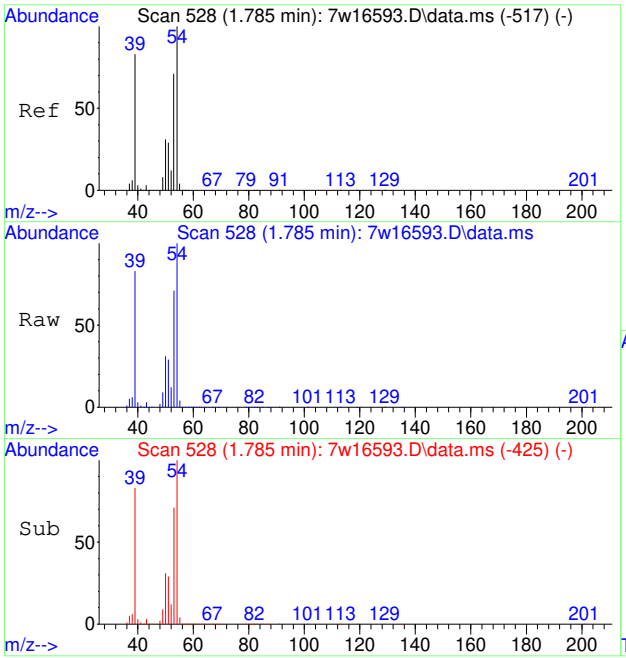


#11
VINYL CHLORIDE
Concen: 49.80 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 644820

Ion	Ratio	Lower	Upper
62	100		
64	30.3	21.3	39.6
61	8.5	5.7	10.5

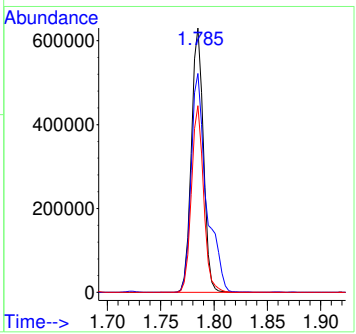


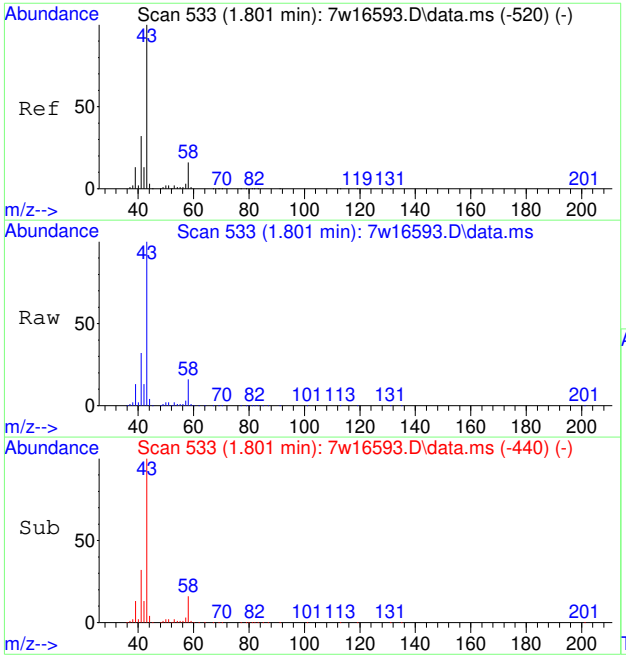


#12
1,3-BUTADIENE
Concen: 47.75 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 54 Resp: 492846

Ion	Ratio	Lower	Upper
54	100		
39	105.5	78.4	138.4
53	71.6	40.9	100.9

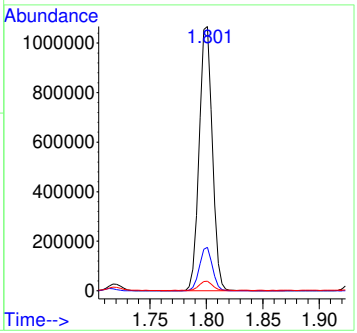


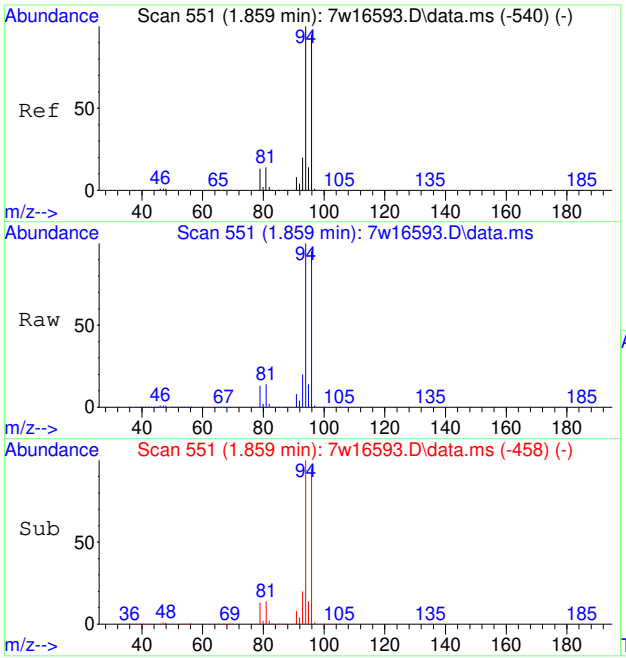


#13
N-BUTANE
Concen: 49.00 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 861032

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.6	2.6	4.8

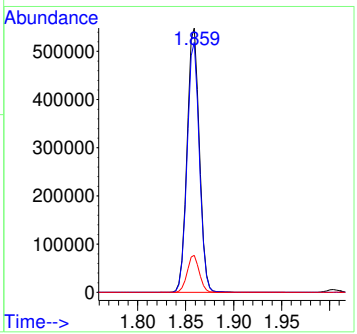


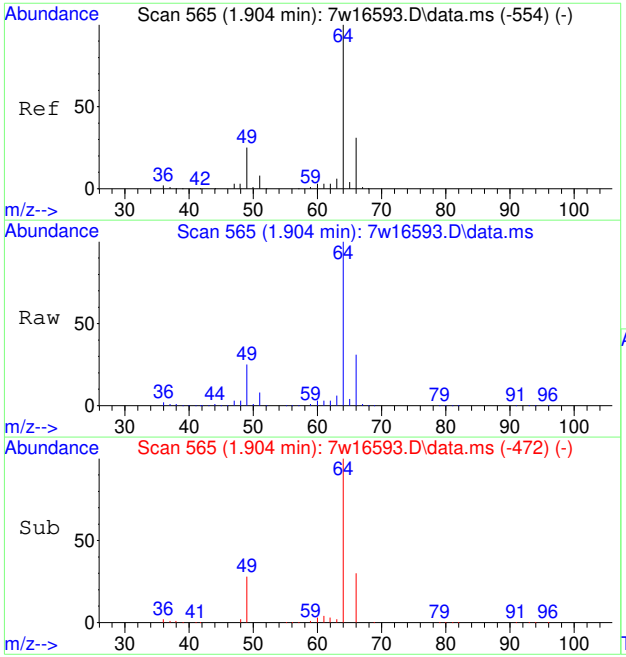


#14
BROMOMETHANE
Concen: 48.47 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 94 Resp: 489029

Ion	Ratio	Lower	Upper
94	100		
96	93.9	66.1	122.7
95	13.8	9.9	18.3

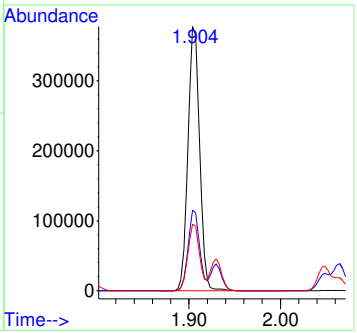


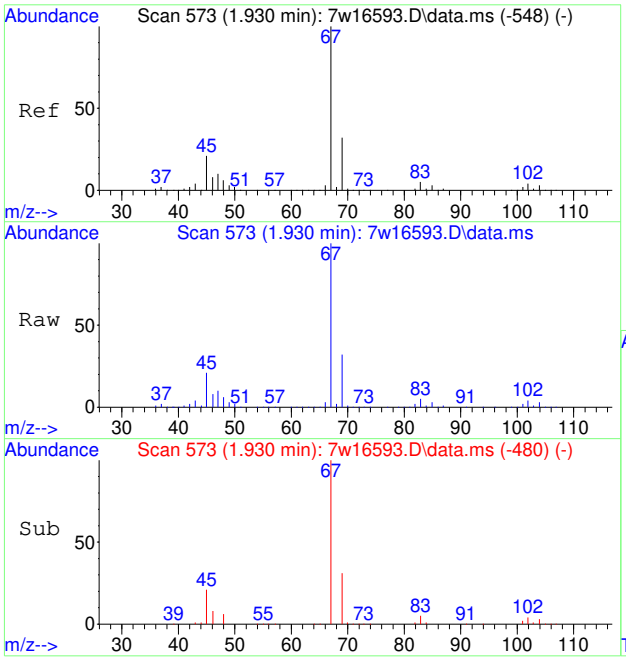


#15
CHLOROETHANE
Concen: 47.41 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 64 Resp: 335126

Ion	Ratio	Lower	Upper
64	100		
66	30.6	21.5	39.9
49	26.0	19.0	35.4

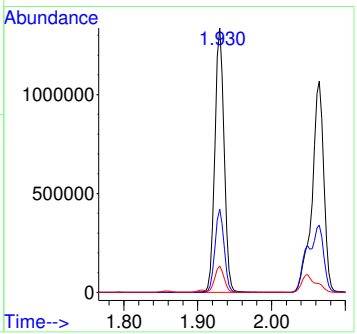


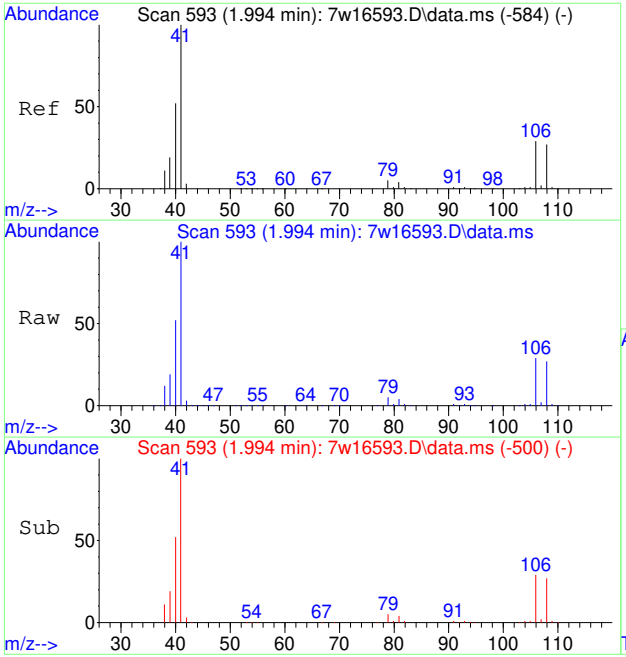


#16
DICHLOROFLUOROMETHANE
Concen: 47.65 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 1165217

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

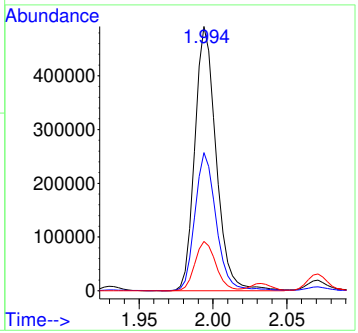


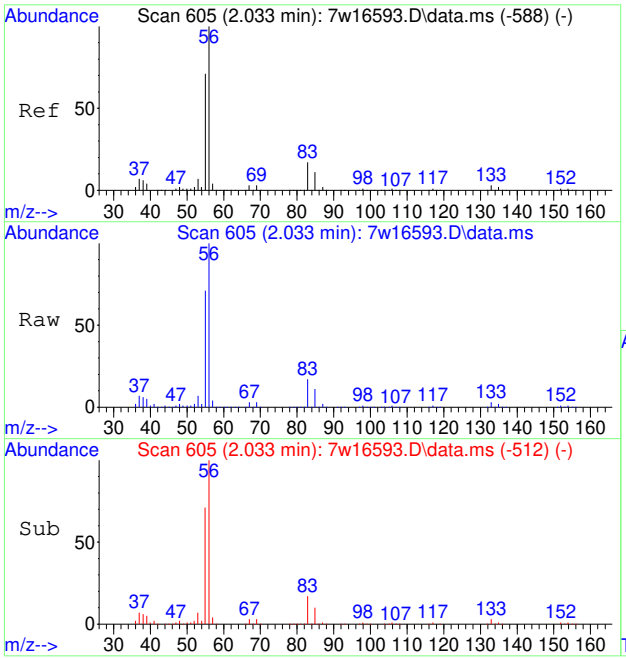


#17
ACETONITRILE
Concen: 39.40 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 492619

Ion	Ratio	Lower	Upper
41	100		
40	52.0	36.7	68.1
39	18.3	13.1	24.3

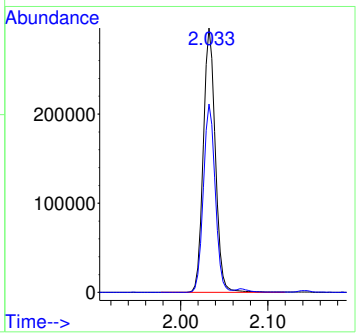


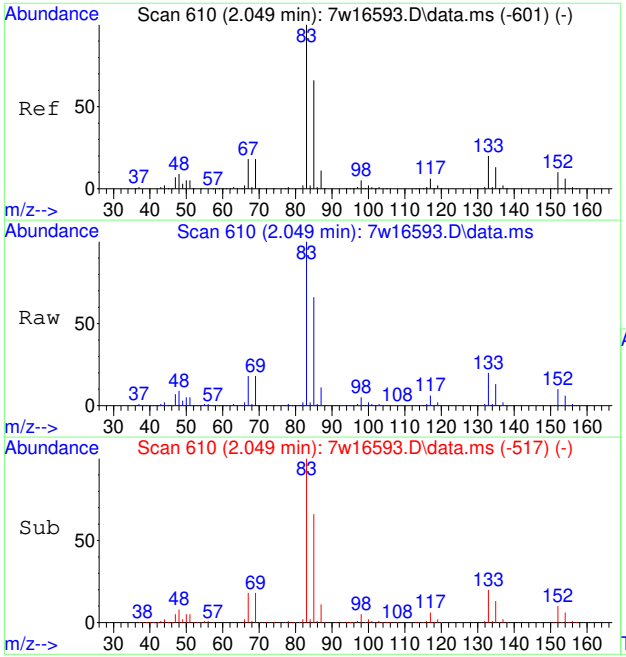


#18
ACROLEIN
Concen: 48.79 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 56 Resp: 284178

Ion	Ratio	Lower	Upper
56	100		
55	70.2	48.9	90.7

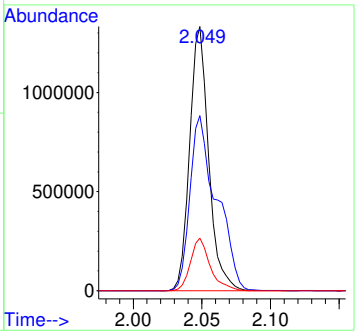


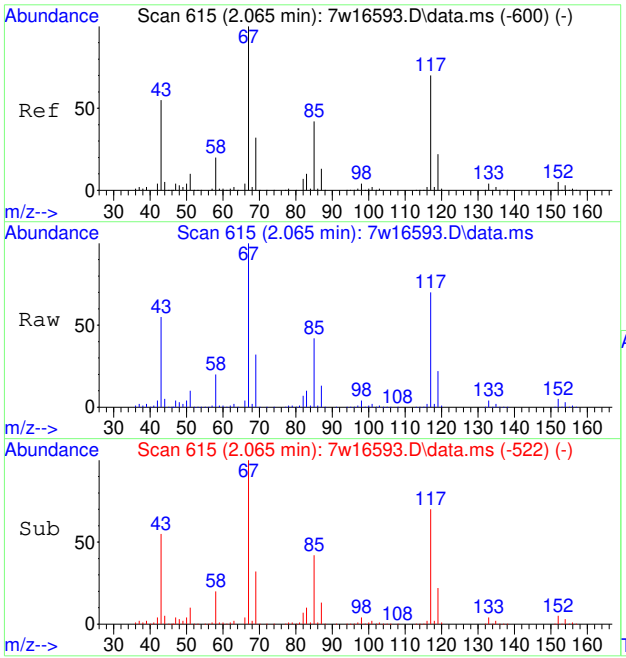


#19
FREON 123
Concen: 52.41 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1284287

Ion	Ratio	Lower	Upper
83	100		
85	92.9	64.9	120.5
133	20.7	14.7	27.3

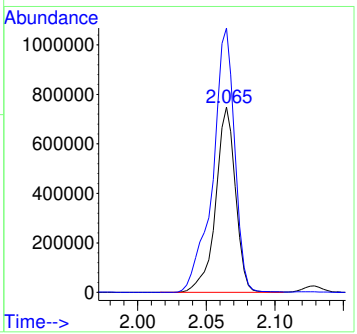


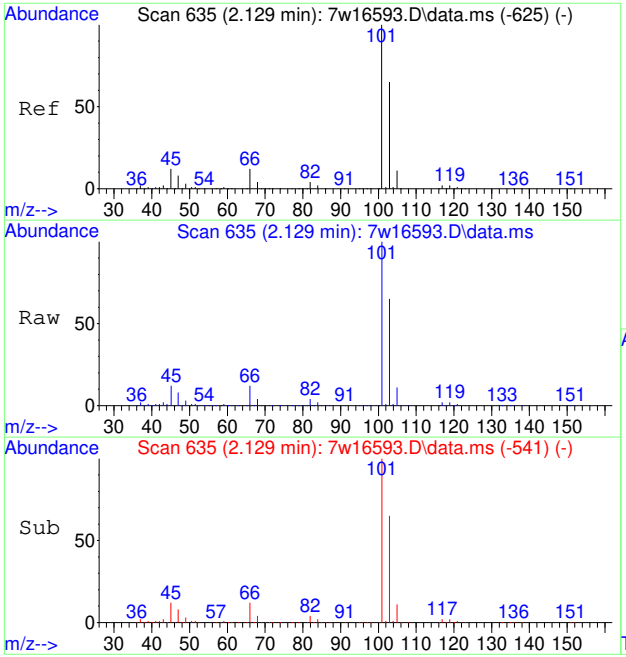


#20
FREON 123A
Concen: 51.67 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 752289

Ion	Ratio	Lower	Upper
117	100		
67	157.8	111.3	206.7

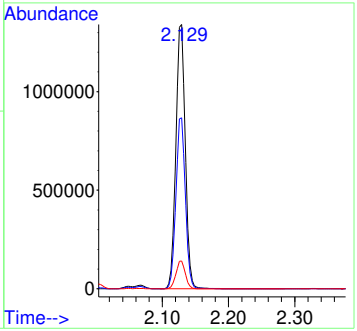


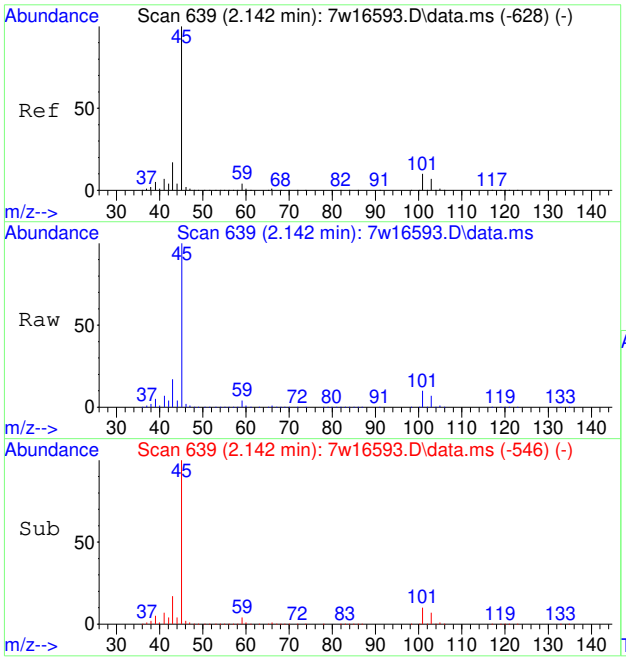


#21
TRICHLOROFLUOROMETHANE
Concen: 47.77 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:101 Resp: 1332114

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.5	7.3	13.5

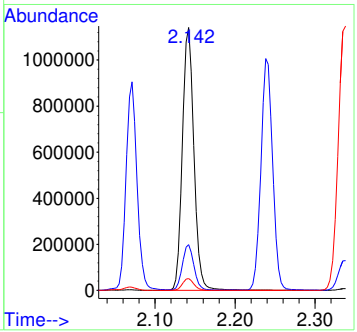


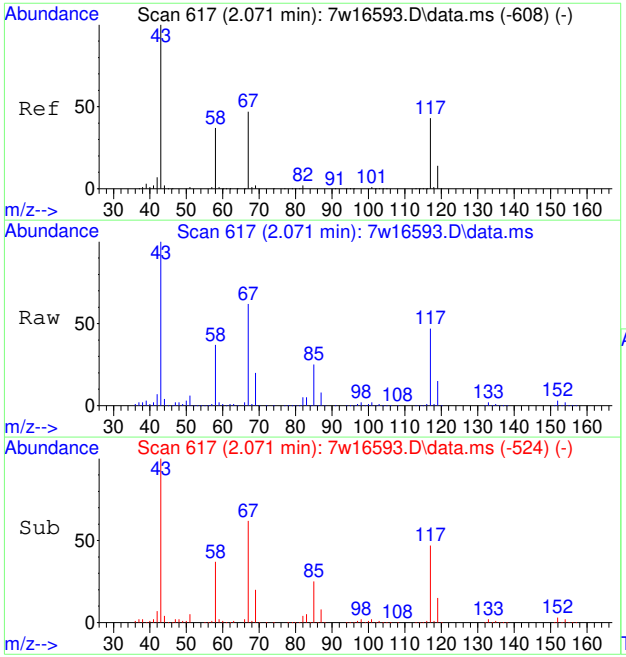


#22
ISOPROPYL ALCOHOL
Concen: 47.91 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 1144041

Ion	Ratio	Lower	Upper
45	100		
43	17.6	12.5	23.3
59	4.5	3.1	5.7

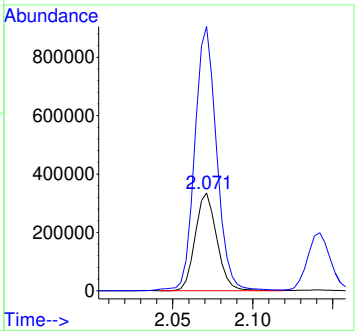


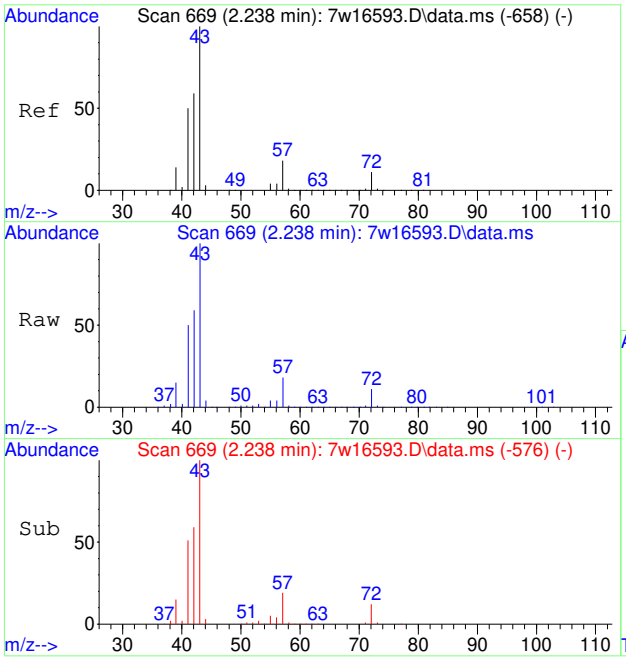


#23
ACETONE
Concen: 48.52 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 315550

Ion	Ratio	Lower	Upper
58	100		
43	272.7	198.6	368.8

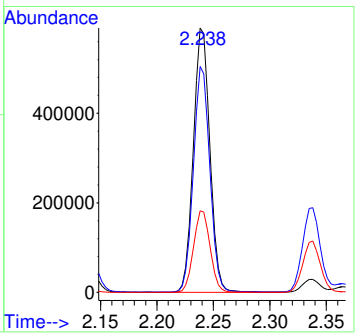


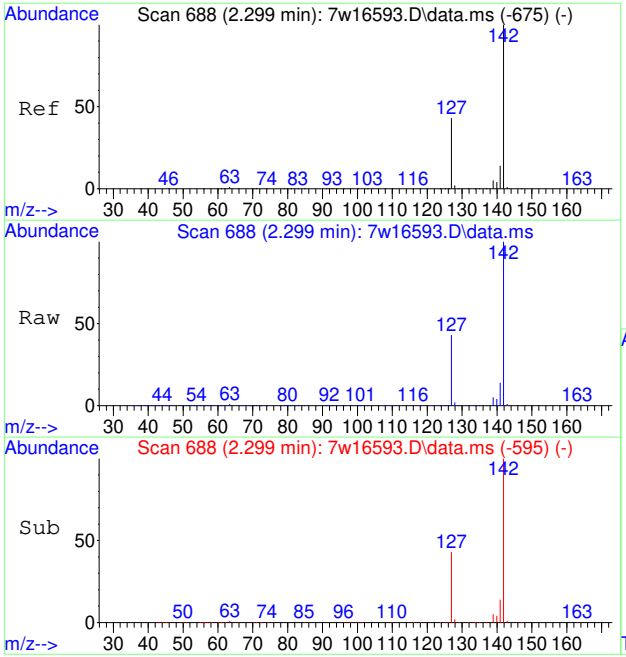


#24
PENTANE
Concen: 46.26 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 42 Resp: 600441

Ion	Ratio	Lower	Upper
42	100		
41	85.1	59.8	111.0
57	31.1	21.1	39.1

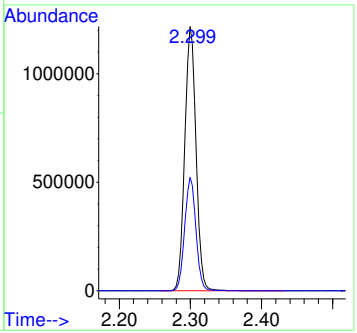


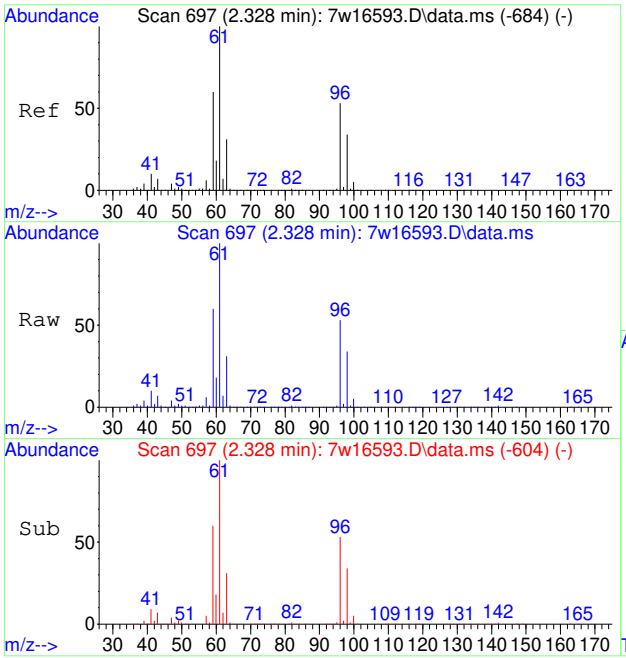


#25
IODOMETHANE
Concen: 52.52 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:142 Resp: 1336999

Ion	Ratio	Lower	Upper
142	100		
127	42.9	30.6	56.8

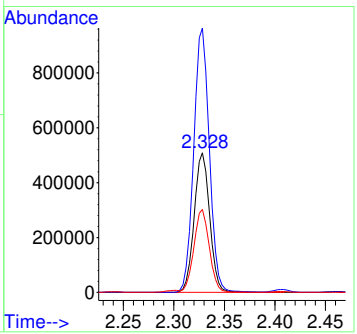


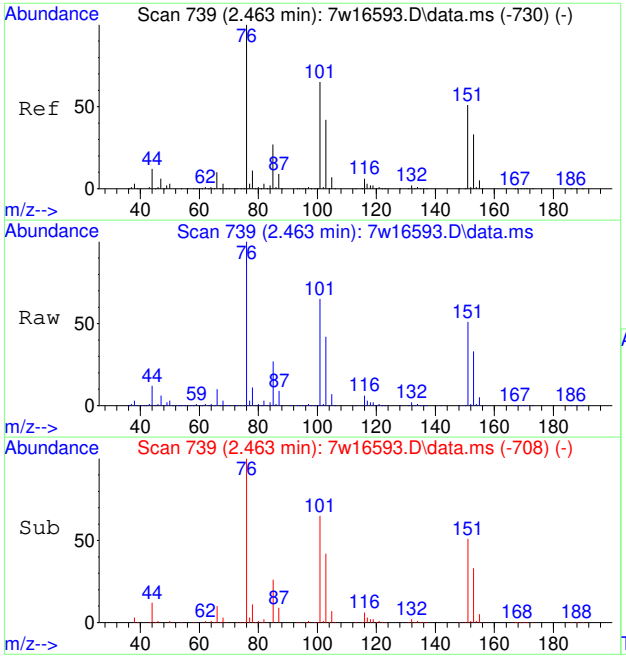


#26
1,1-DICHLOROETHYLENE
Concen: 51.15 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 541882

Ion	Ratio	Lower	Upper
96	100		
61	190.6	138.3	256.8
63	60.5	44.2	82.0

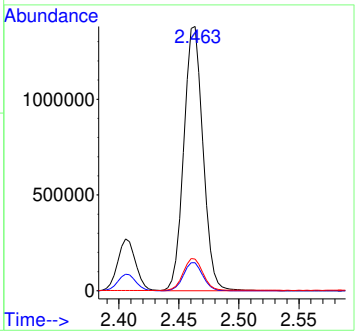


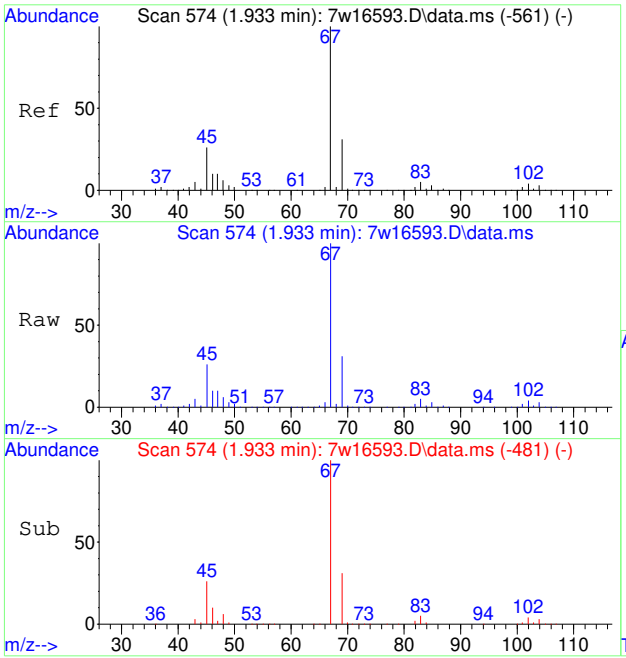


#27
CARBON DISULFIDE
Concen: 51.13 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1536663

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.4	10.2	19.0

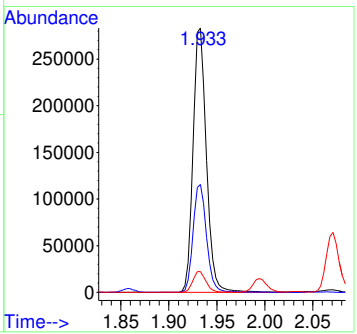


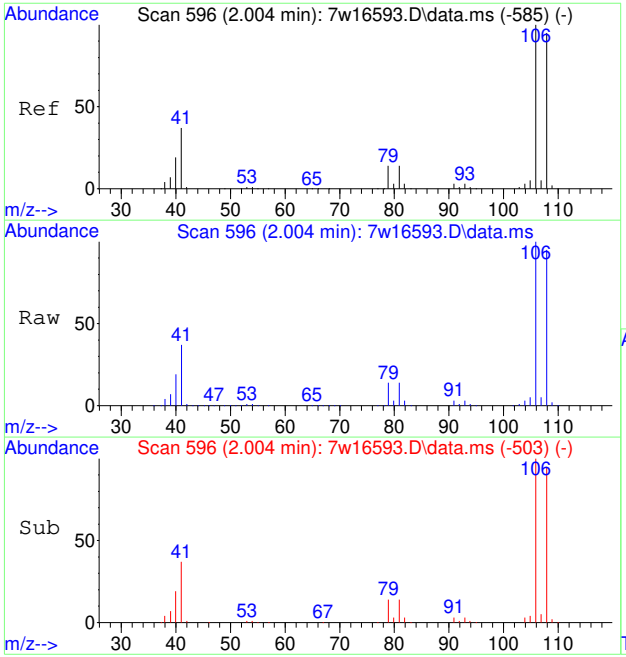


#28
ETHANOL
Concen: 42.83 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 274276

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.7	5.7	10.5

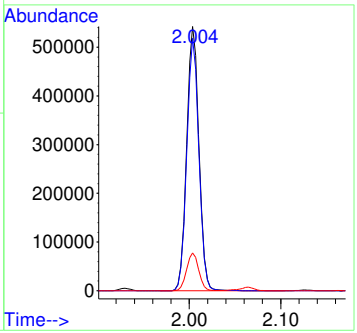


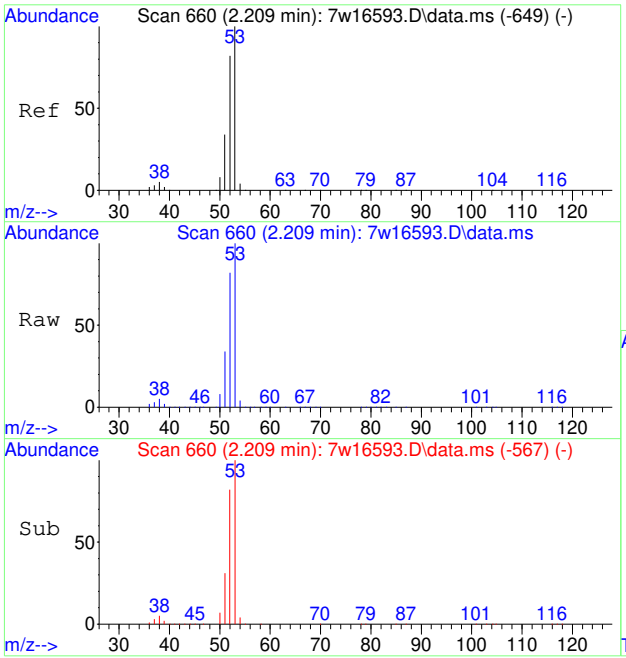


#29
BROMOETHENE
Concen: 50.05 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:106 Resp: 503032

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.2	10.6	19.8

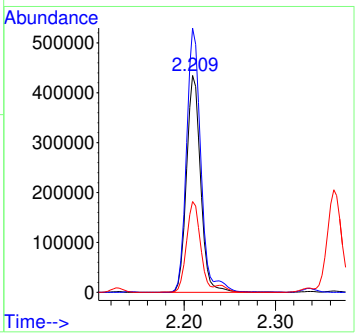


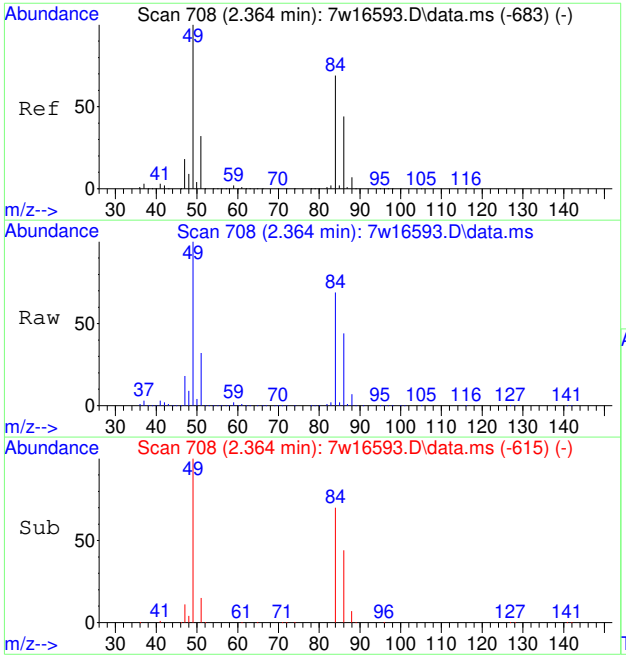


#30
ACRYLONITRILE
Concen: 51.19 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 465157

Ion	Ratio	Lower	Upper
52	100		
53	124.1	88.2	163.8
51	44.3	31.3	58.1

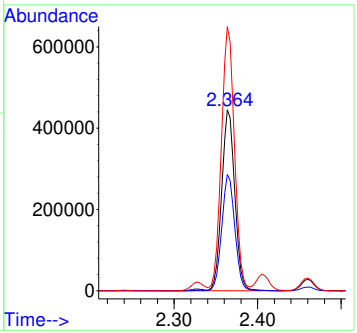


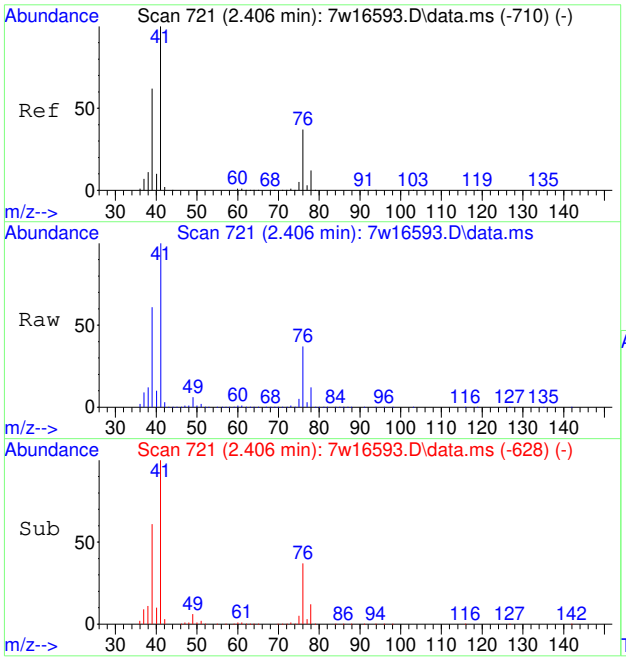


#31
METHYLENE CHLORIDE
Concen: 46.46 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 488512

Ion	Ratio	Lower	Upper
84	100		
86	63.6	44.3	82.3
49	145.0	109.5	203.3

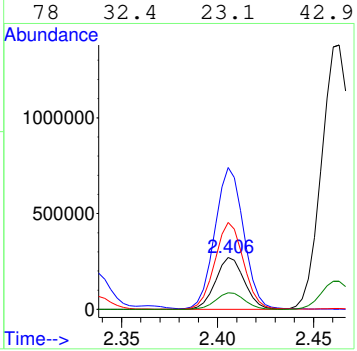


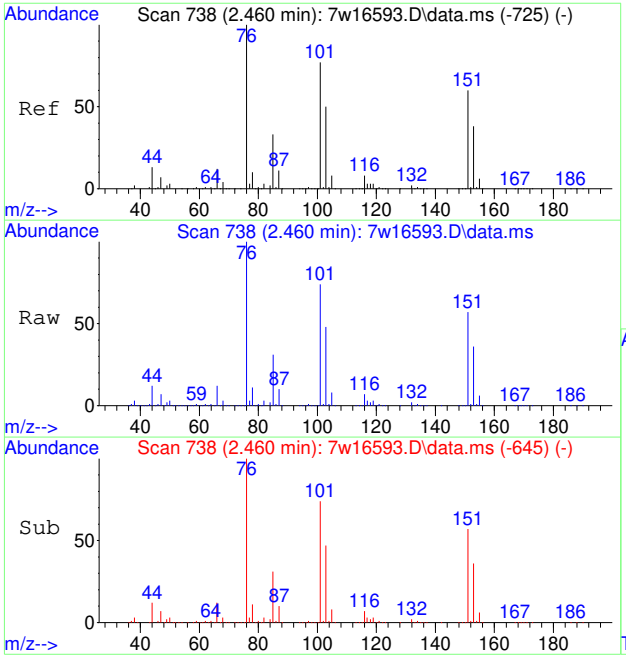


#32
3-CHLOROPROPENE
Concen: 50.05 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 282447

Ion	Ratio	Lower	Upper
76	100		
41	275.4	202.6	376.2
39	167.8	125.8	233.6
78	32.4	23.1	42.9

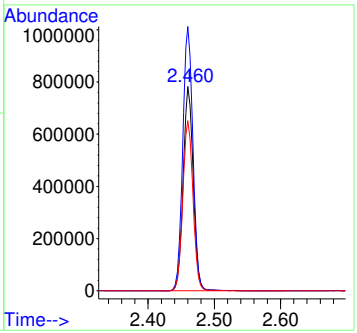


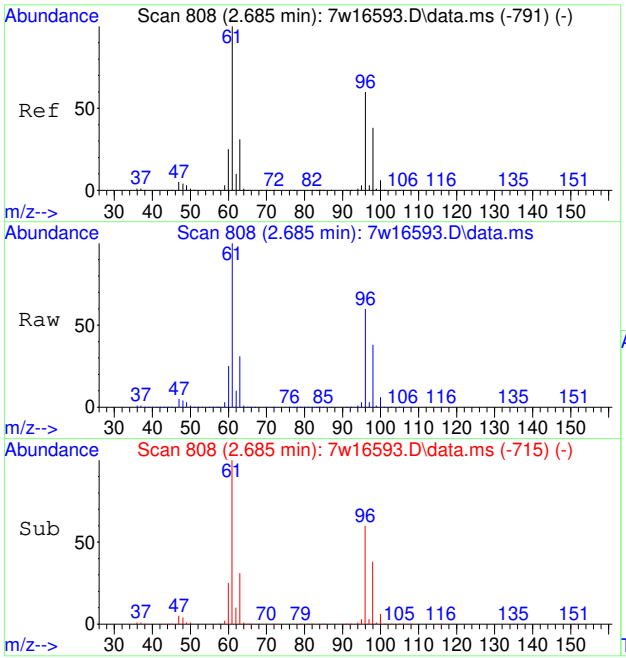


#33
FREON 113
Concen: 52.05 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:151 Resp: 827135

Ion	Ratio	Lower	Upper
151	100		
101	131.1	93.1	172.9
103	84.6	60.1	111.5

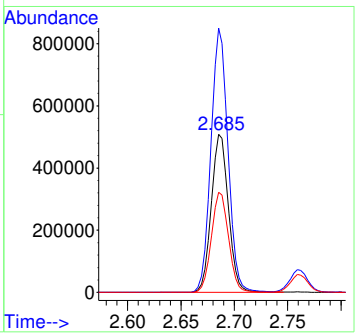


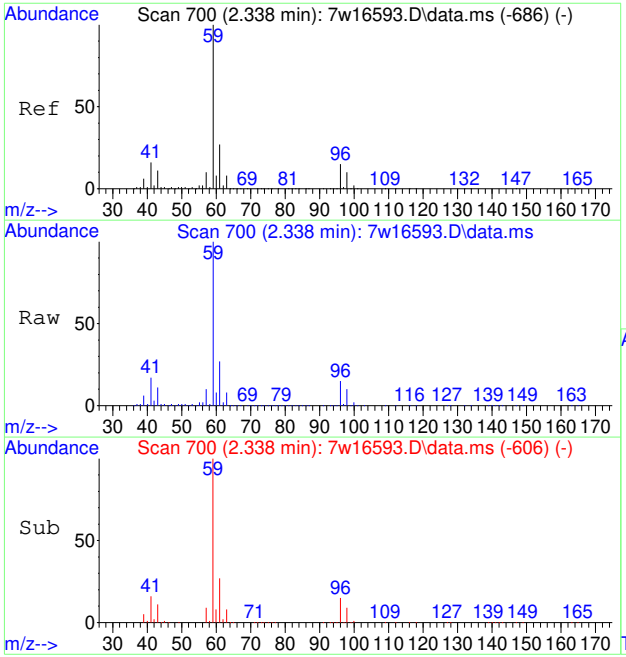


#34
TRANS-1,2-DICHLOROETHENE
Concen: 48.66 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 567495

Ion	Ratio	Lower	Upper
96	100		
61	165.8	119.6	222.0
98	63.4	44.9	83.5

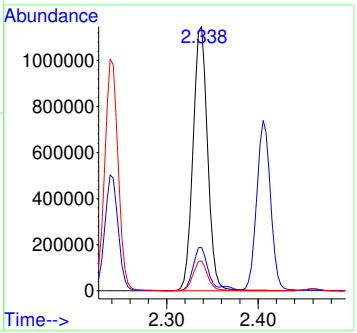


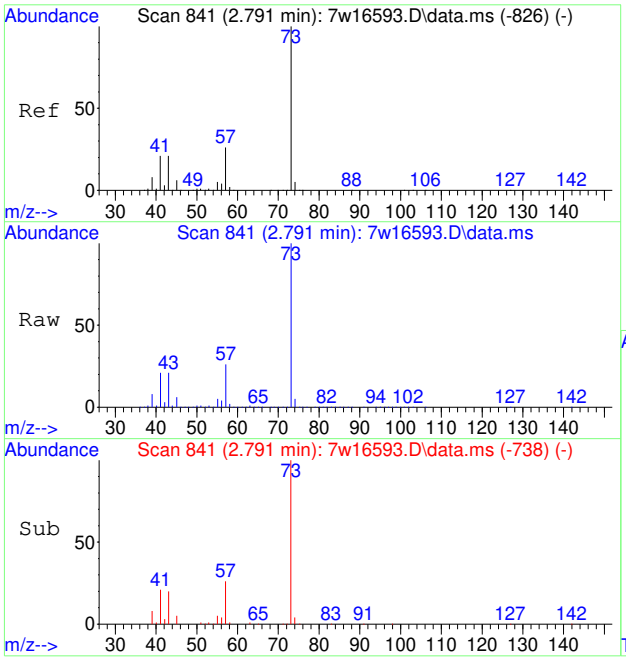


#35
TERTIARY BUTYL ALCOHOL
Concen: 42.60 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 1271463

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.3	8.0	14.8

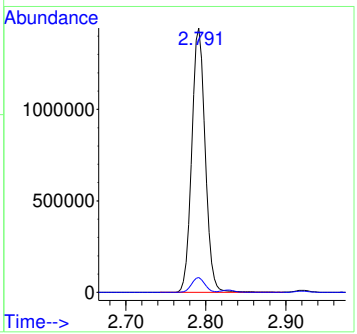


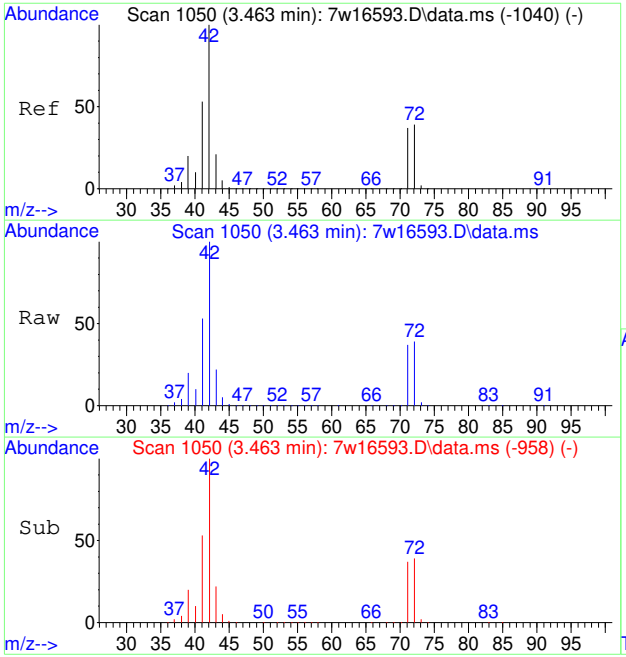


#36
METHYL TERTIARY BUTYL ETHER
Concen: 50.99 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 73 Resp: 1685636

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

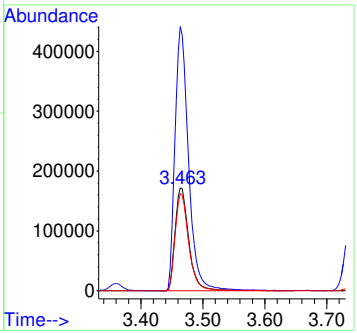


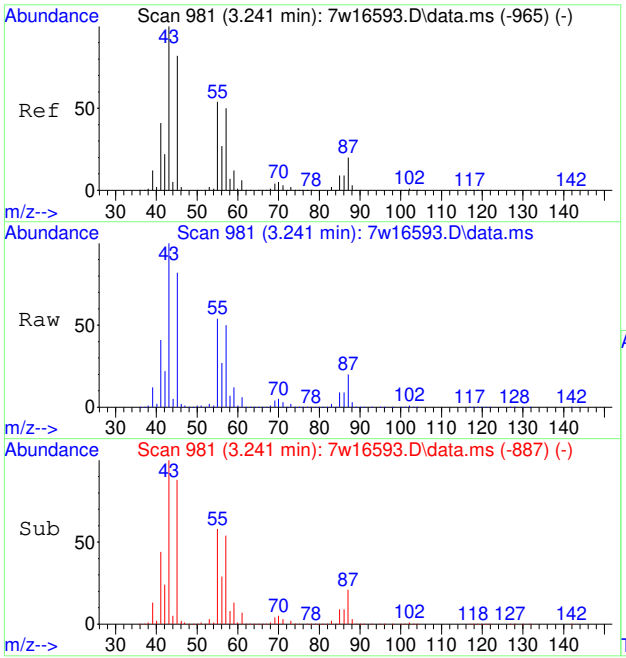


#37
TETRAHYDROFURAN
Concen: 49.92 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 264475

Ion	Ratio	Lower	Upper
72	100		
42	253.2	180.3	334.8
71	93.9	65.8	122.2

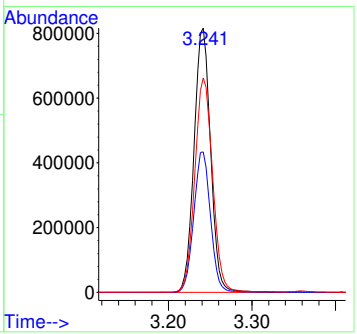


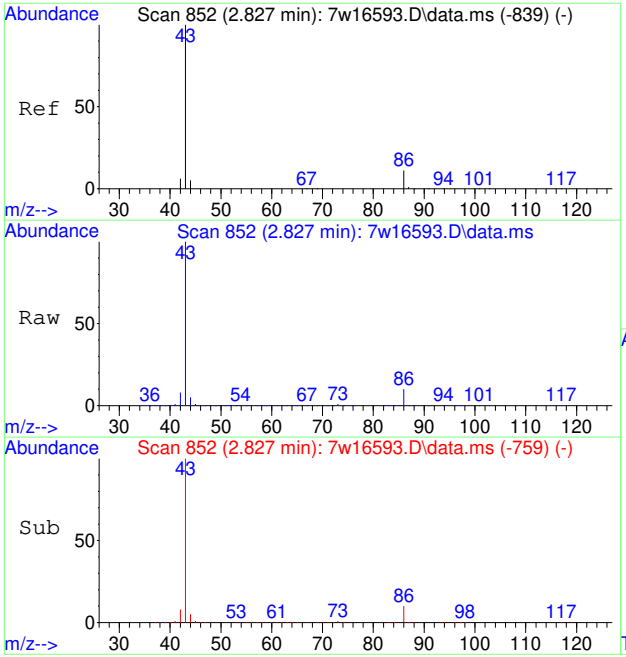


#38
HEXANE
Concen: 50.43 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1126153

Ion	Ratio	Lower	Upper
57	100		
56	53.9	38.0	70.6
41	87.4	65.9	122.5

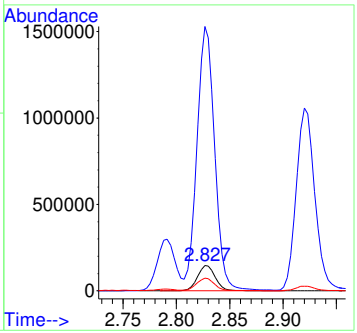


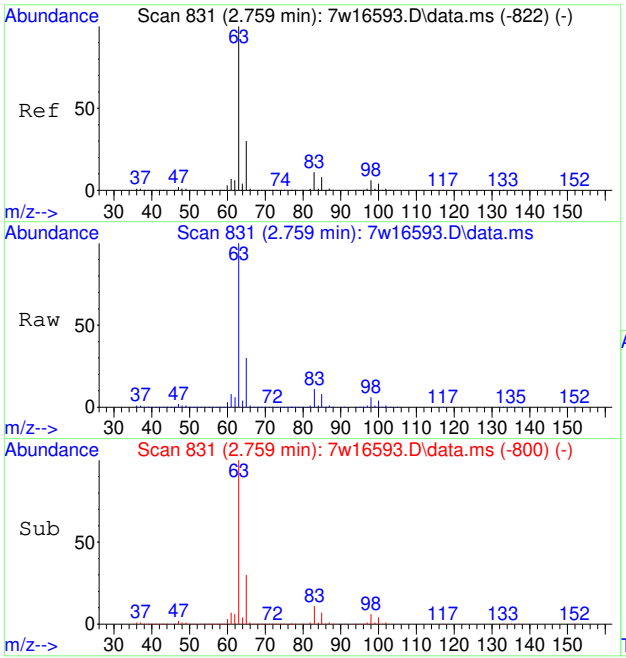


#39
VINYL ACETATE
Concen: 54.22 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 86 Resp: 168950

Ion	Ratio	Lower	Upper
86	100		
43	1048.9	758.7	1408.9
44	50.4	39.5	73.3

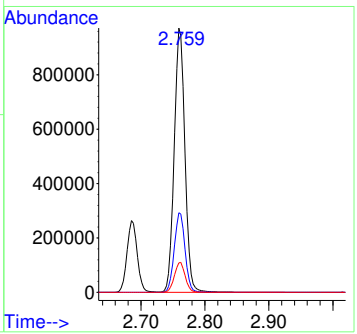


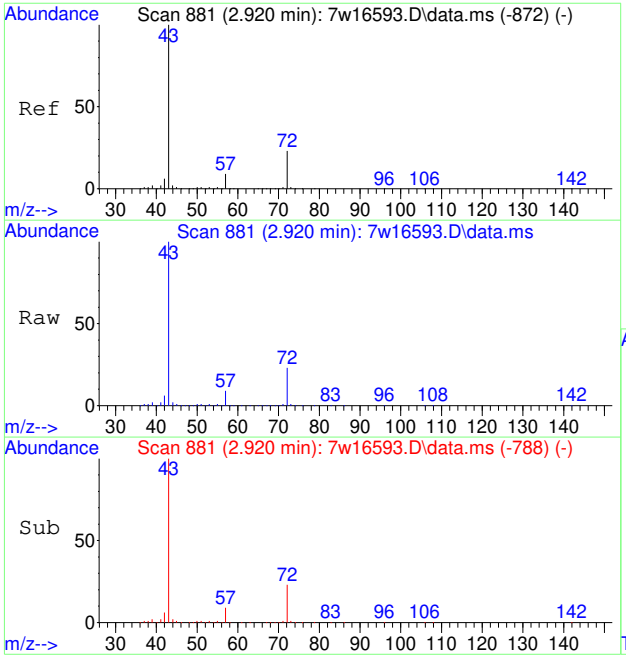


#40
1,1-DICHLOROETHANE
Concen: 50.17 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 1126676

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.4	39.8
83	11.6	8.3	15.5

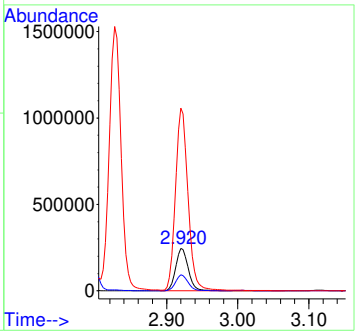


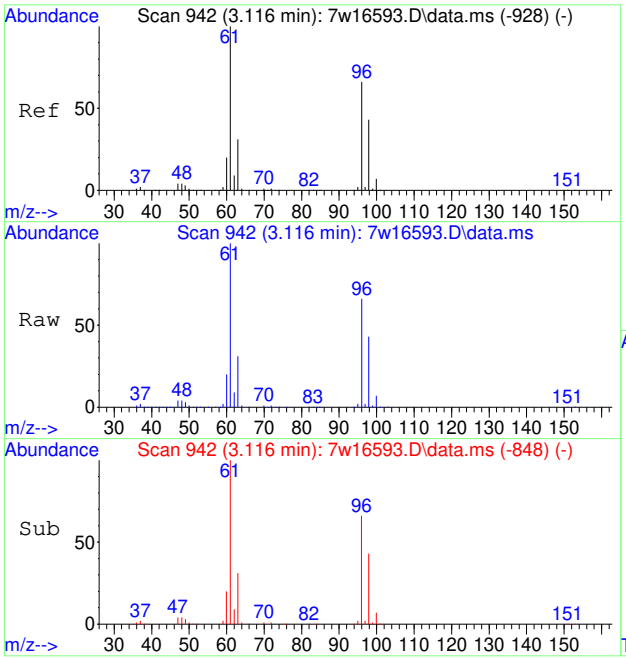


#41
METHYL ETHYL KETONE
Concen: 49.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 301446

Ion	Ratio	Lower	Upper
72	100		
57	37.5	26.9	49.9
43	433.3	309.4	574.6

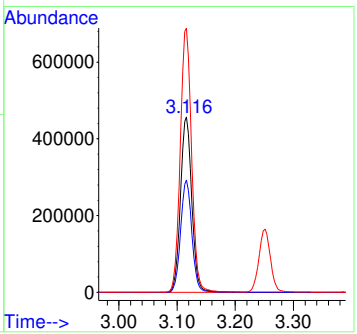


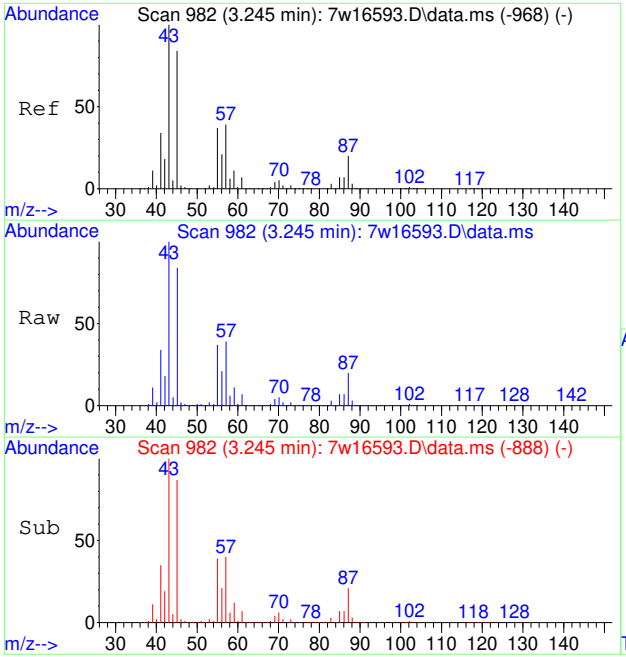


#42
CIS-1,2-DICHLOROETHENE
Concen: 51.36 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 616786

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	151.0	107.3	199.3

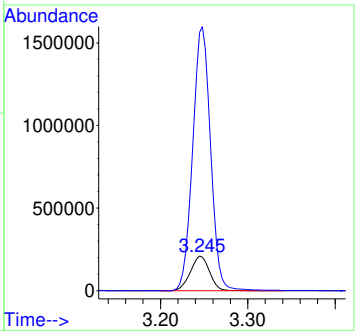


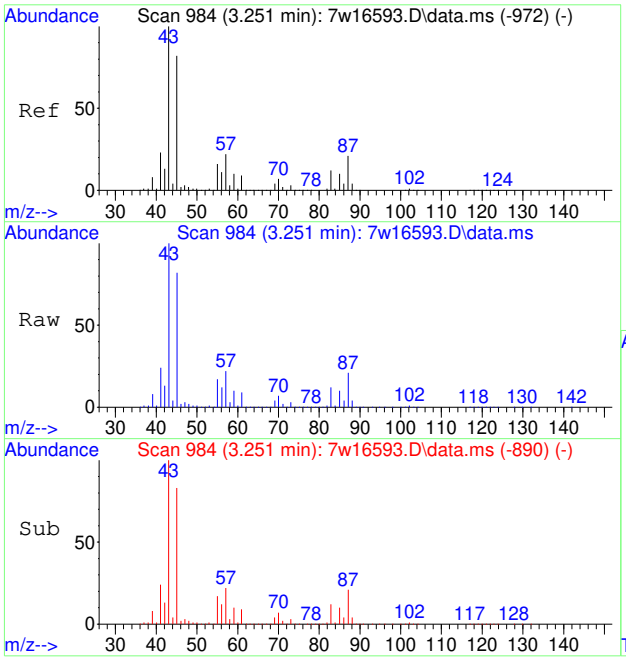


#43
DIISOPROPYL ETHER
Concen: 51.01 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 322160

Ion	Ratio	Lower	Upper
59	100		
45	709.9	517.6	961.2

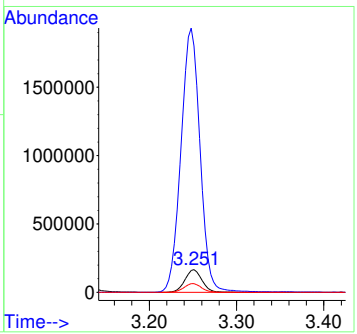


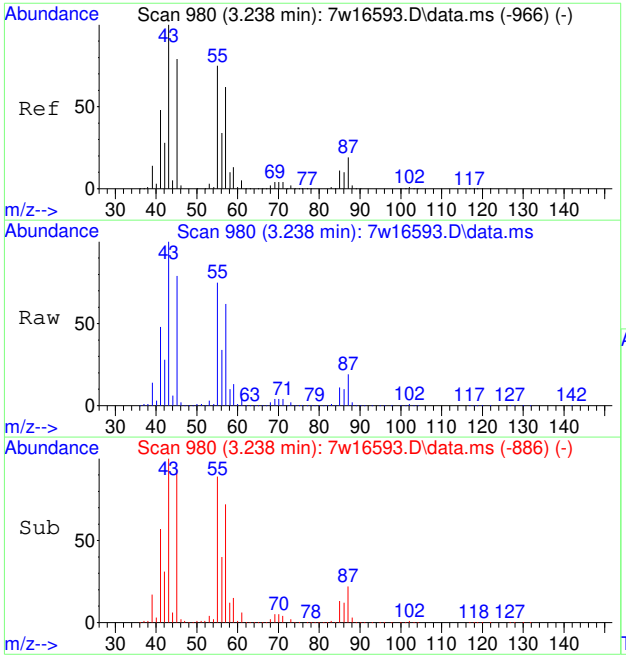


#44
ETHYL ACETATE
Concen: 54.48 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 61 Resp: 229745

Ion	Ratio	Lower	Upper
61	100		
43	1283.3	955.4	1774.4
88	40.0	27.6	51.2

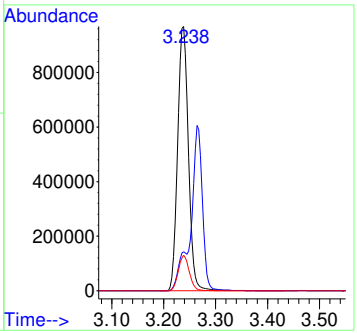


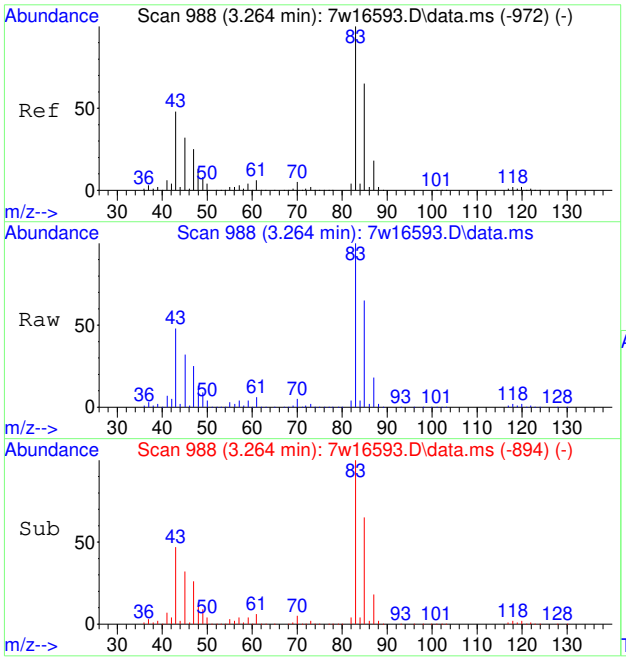


#45
METHYL ACRYLATE
Concen: 51.53 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1386411

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

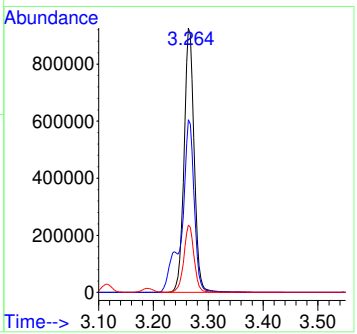


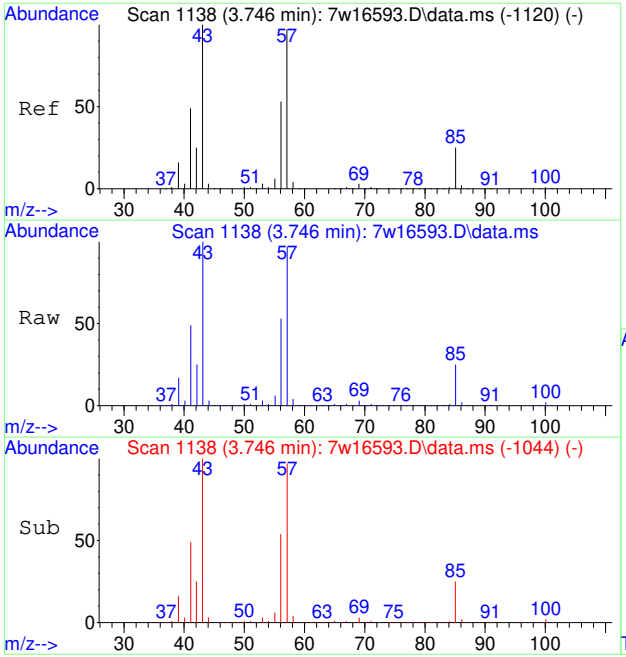


#46
CHLOROFORM
Concen: 50.69 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1180563

Ion	Ratio	Lower	Upper
83	100		
85	81.2	56.0	104.0
47	25.9	19.0	35.4

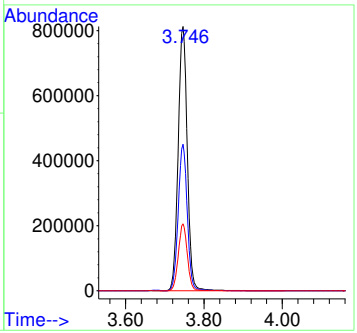


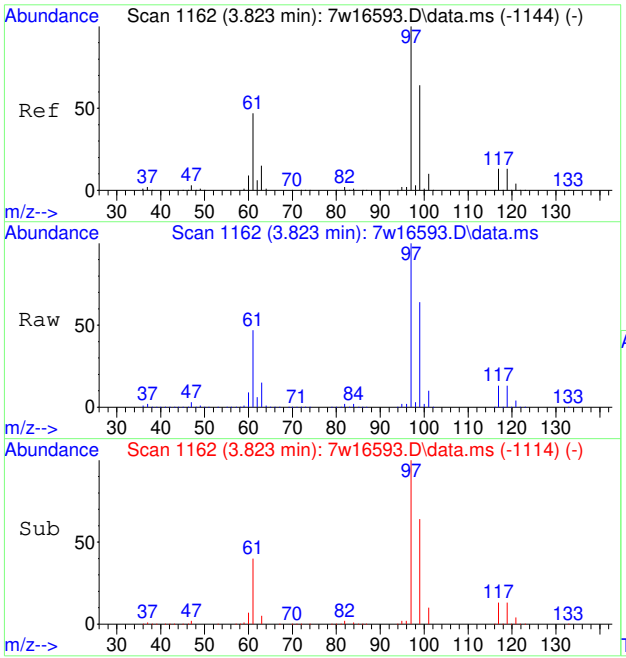


#47
2,4-DIMETHYLPENTANE
Concen: 52.75 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1310498

Ion	Ratio	Lower	Upper
57	100		
56	55.2	38.4	71.2
85	25.0	17.5	32.5

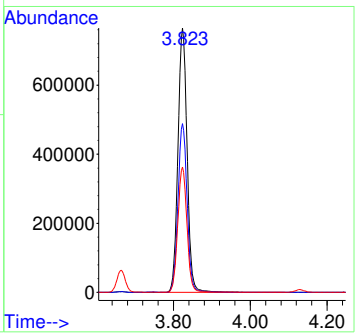


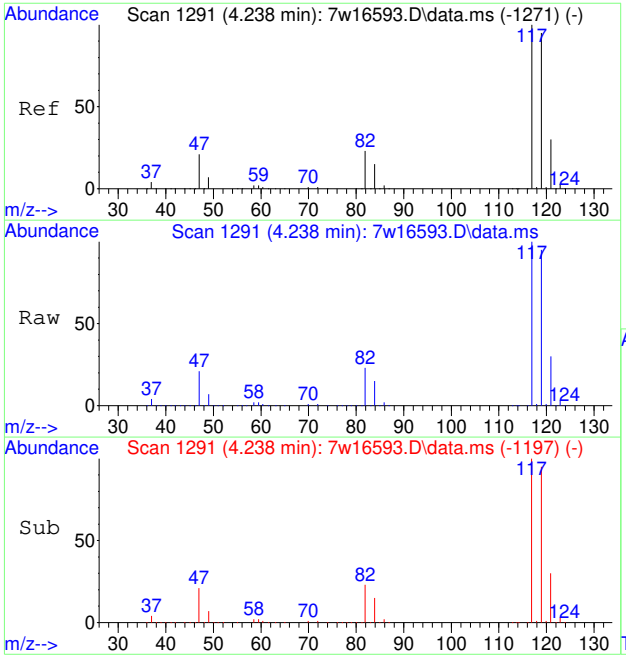


#48
1,1,1-TRICHLOROETHANE
Concen: 51.99 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 97 Resp: 1267195

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	47.8	34.7	64.5

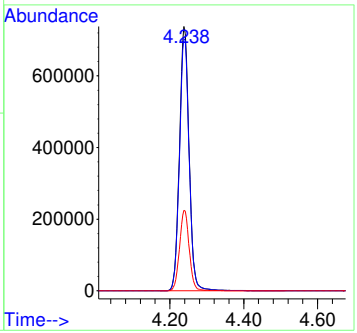


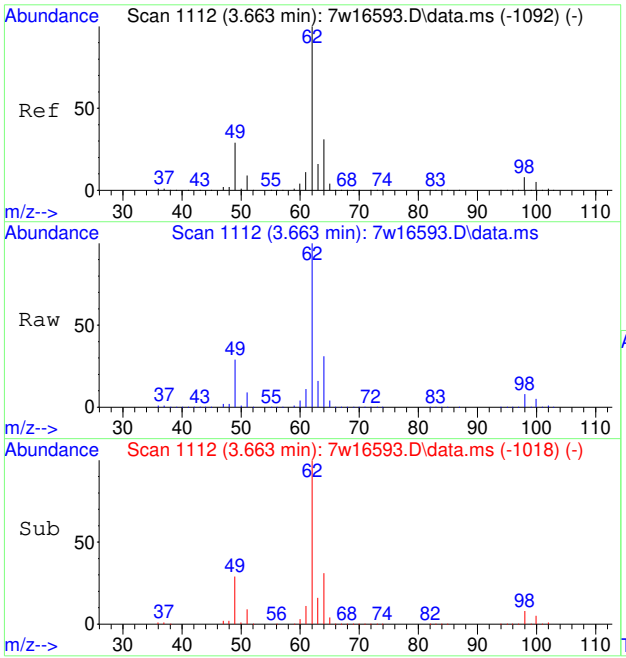


#49
CARBON TETRACHLORIDE
Concen: 53.55 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1338340

Ion	Ratio	Lower	Upper
117	100		
119	96.5	67.5	125.3
121	30.7	21.3	39.5

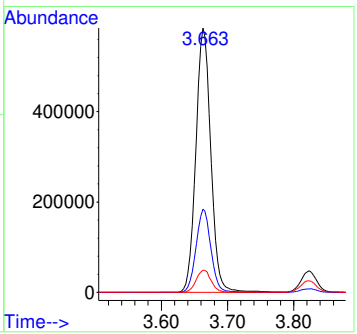


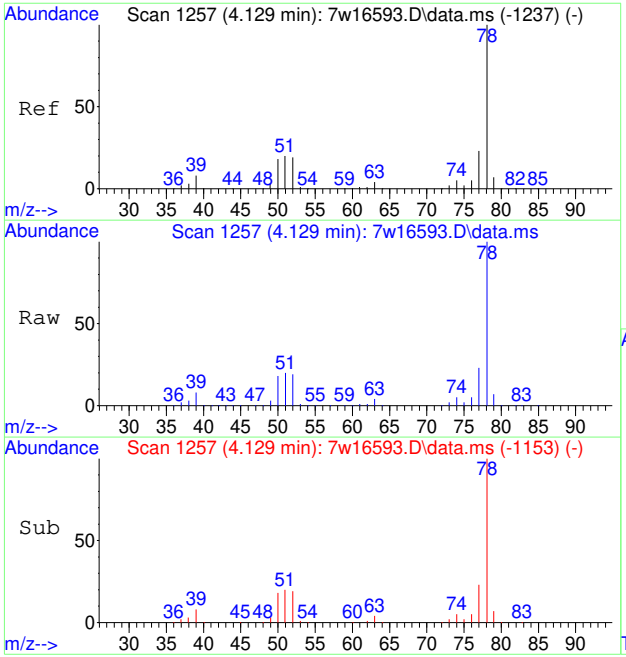


#50
1,2-DICHLOROETHANE
Concen: 51.11 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 918746

Ion	Ratio	Lower	Upper
62	100		
64	31.3	21.8	40.6
98	8.5	5.8	10.8

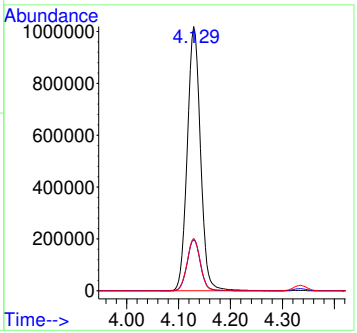


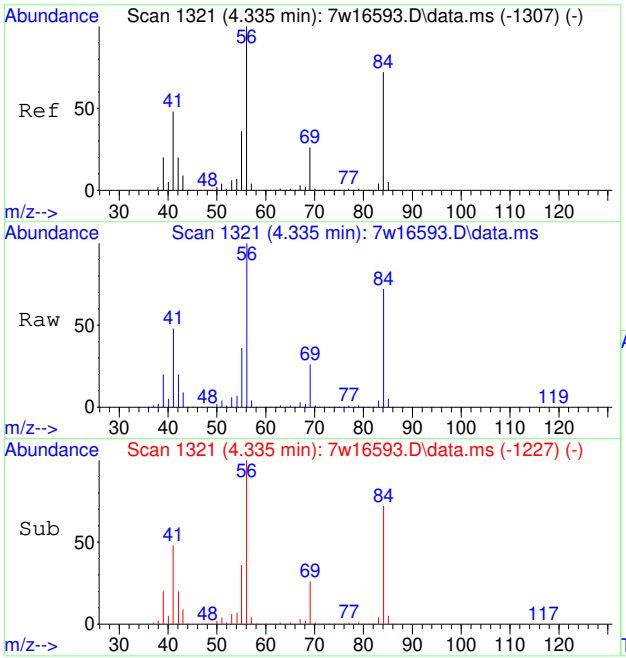


#51
BENZENE
Concen: 50.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 78 Resp: 1795488

Ion	Ratio	Lower	Upper
78	100		
52	19.6	0.0	49.9
51	19.9	0.0	50.6

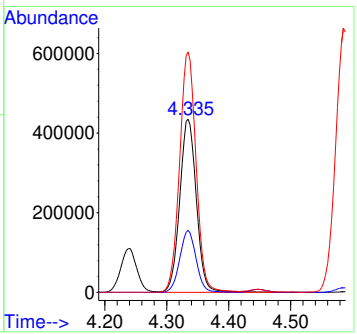


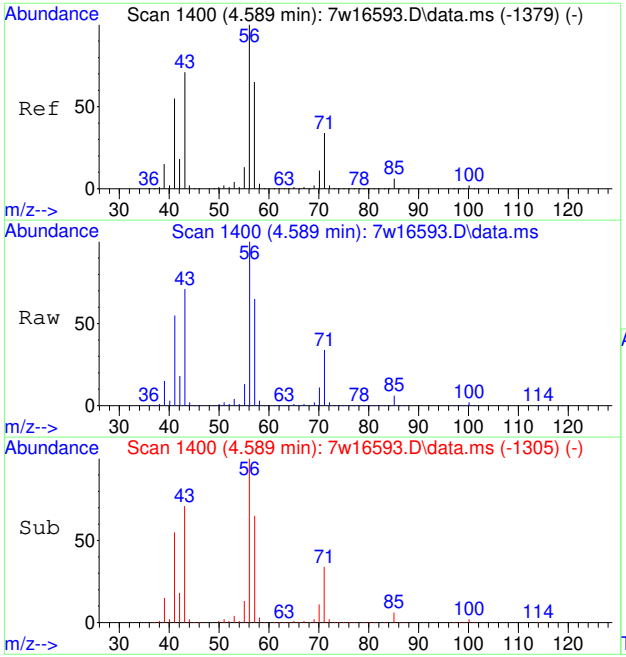


#53
CYCLOHEXANE
Concen: 52.10 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 810673

Ion	Ratio	Lower	Upper
84	100		
69	35.2	24.6	45.6
56	138.1	96.4	179.0

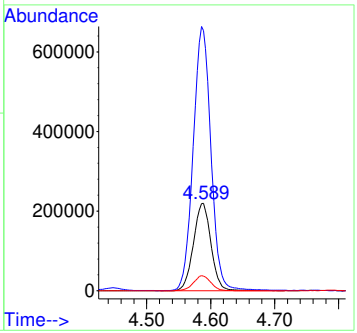


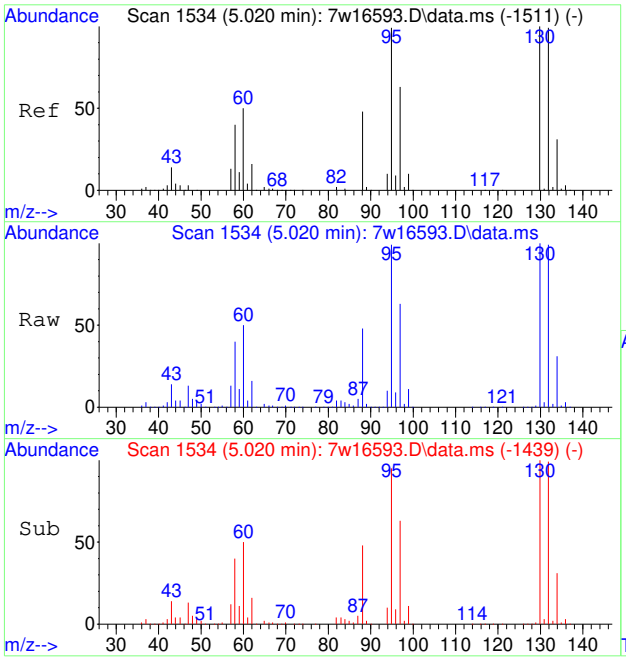


#54
2,3-DIMETHYLPENTANE
Concen: 54.59 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 71 Resp: 421378

Ion	Ratio	Lower	Upper
71	100		
56	303.1	213.2	396.0
85	17.4	12.2	22.6

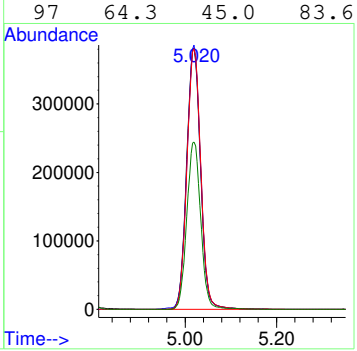


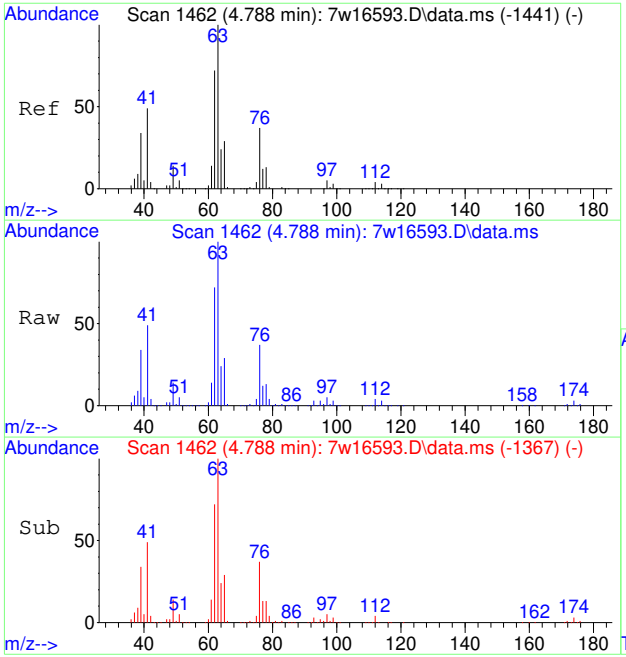


#55
TRICHLOROETHENE
Concen: 48.49 PPBV
RT: 5.020 min Scan# 1534
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 95 Resp: 808299

Ion	Ratio	Lower	Upper
95	100		
130	100.6	69.4	129.0
132	99.7	69.4	128.8
97	64.3	45.0	83.6

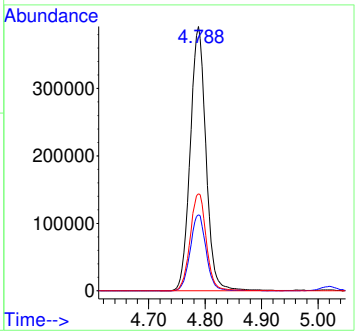


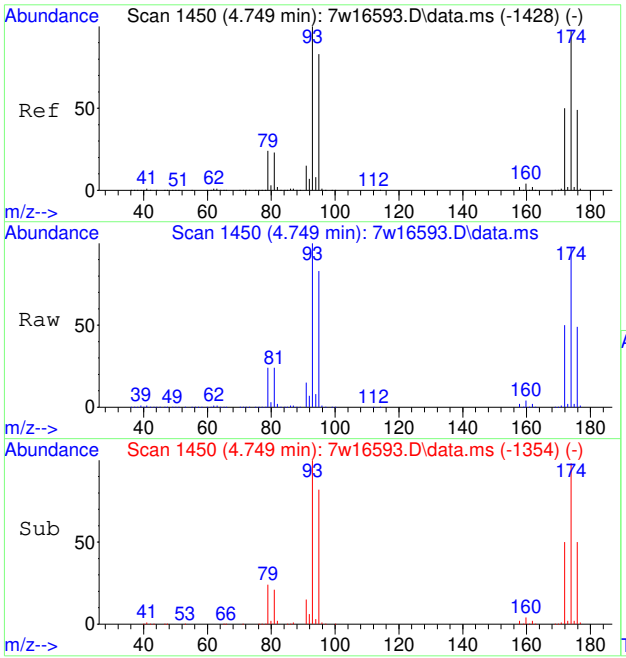


#56
1,2-DICHLOROPROPANE
Concen: 51.61 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 756985

Ion	Ratio	Lower	Upper
63	100		
65	29.2	20.5	38.1
76	37.6	27.1	50.3

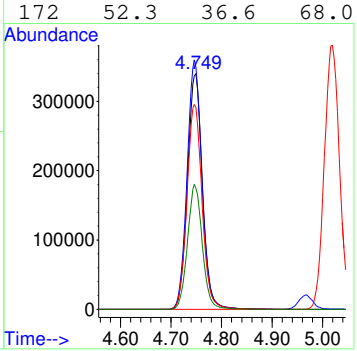


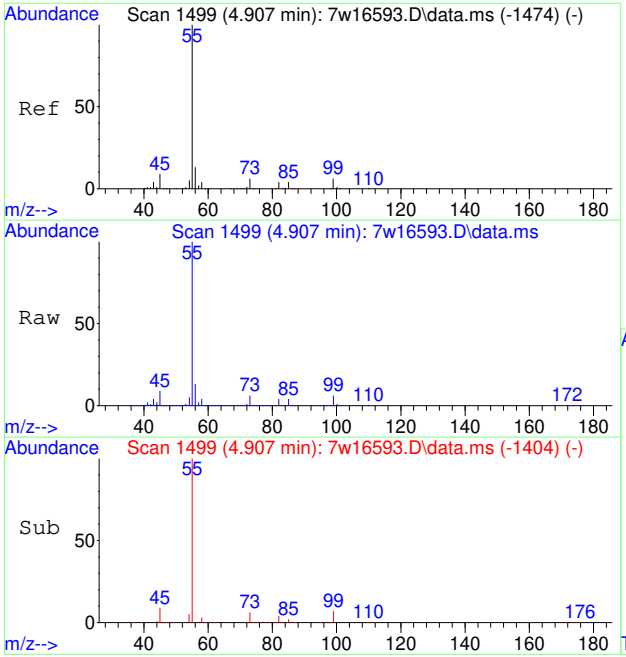


#57
DIBROMOMETHANE
Concen: 49.34 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:174 Resp: 703285

Ion	Ratio	Lower	Upper
174	100		
93	105.1	75.3	139.9
95	87.9	62.4	115.8
172	52.3	36.6	68.0

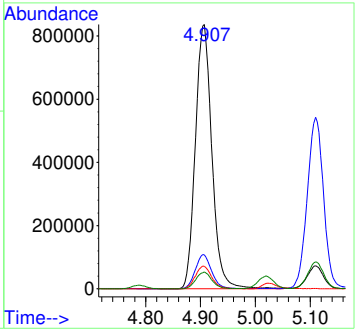


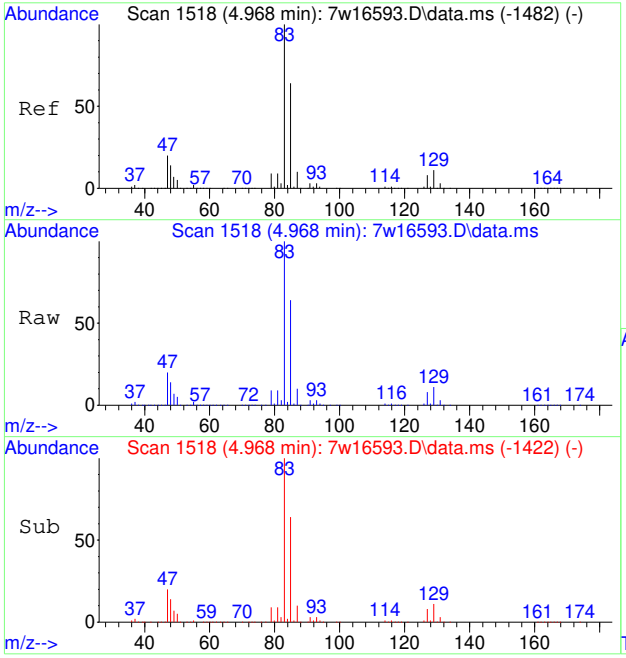


#58
ETHYL ACRYLATE
Concen: 53.53 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1751040

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.6	6.1	11.3
99	6.2	4.3	8.1

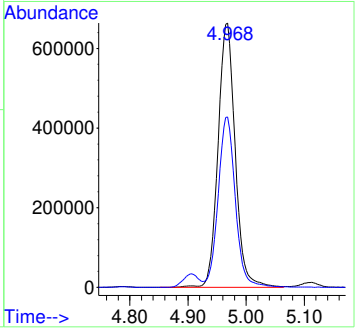


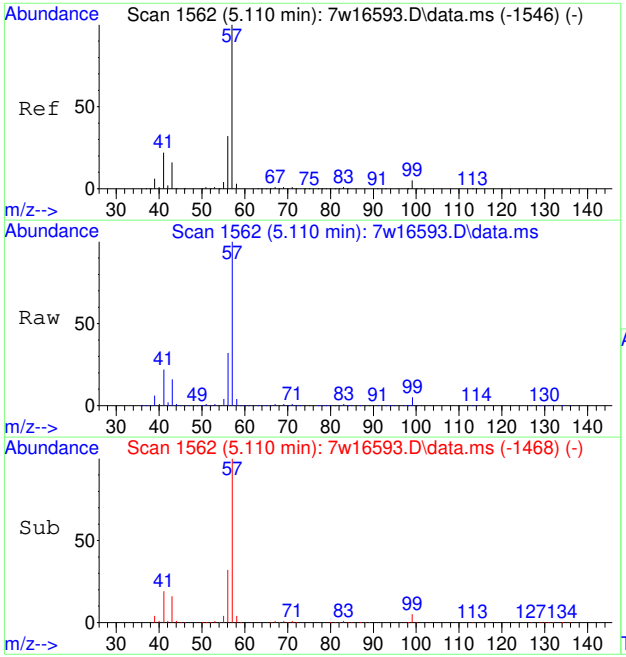


#59
BROMODICHLOROMETHANE
Concen: 51.19 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1363903

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.6	84.8

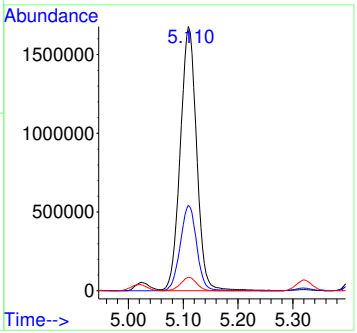


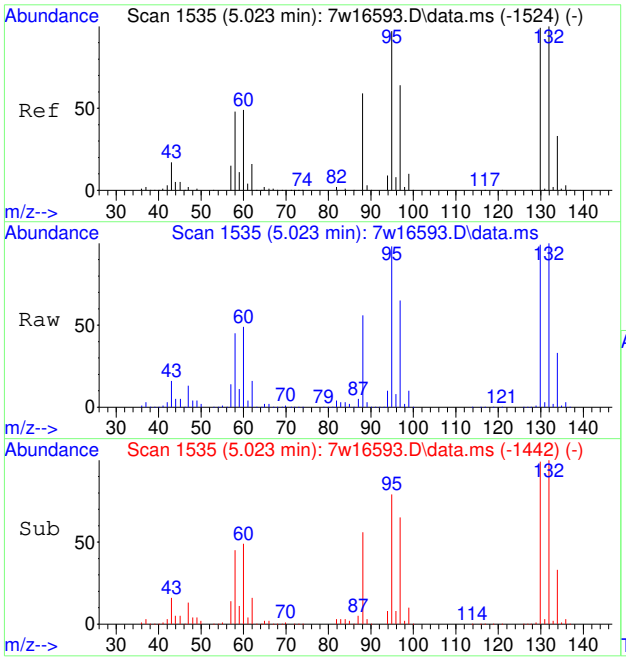


#60
2,2,4-TRIMETHYLPENTANE
Concen: 47.72 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 3474233

Ion	Ratio	Lower	Upper
57	100		
56	32.4	22.6	42.0
99	5.1	3.6	6.8

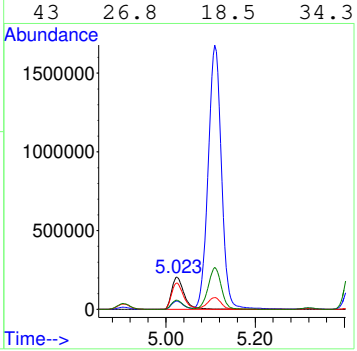


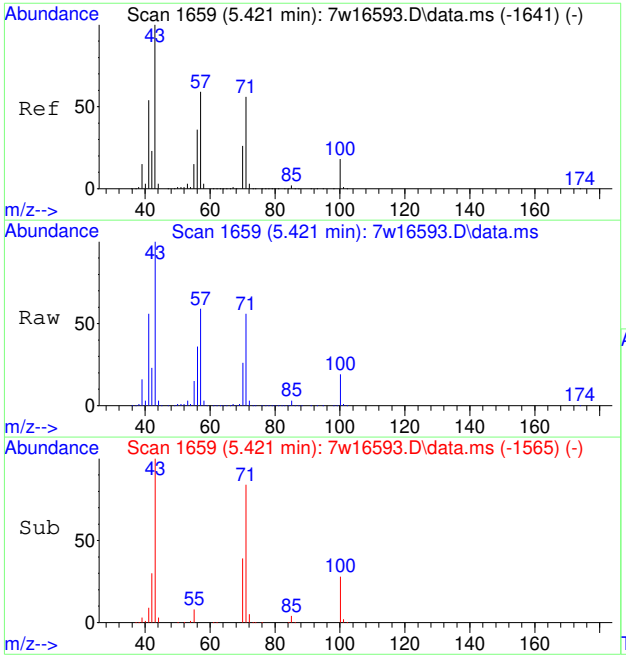


#61
1,4-DIOXANE
Concen: 51.97 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 88 Resp: 402995

Ion	Ratio	Lower	Upper
88	100		
57	24.0	16.7	30.9
58	77.9	52.4	97.4
43	26.8	18.5	34.3

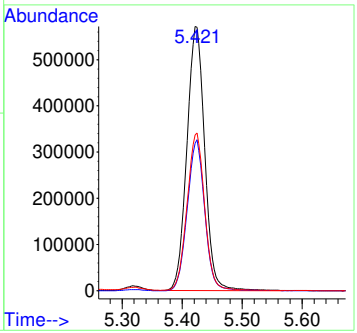


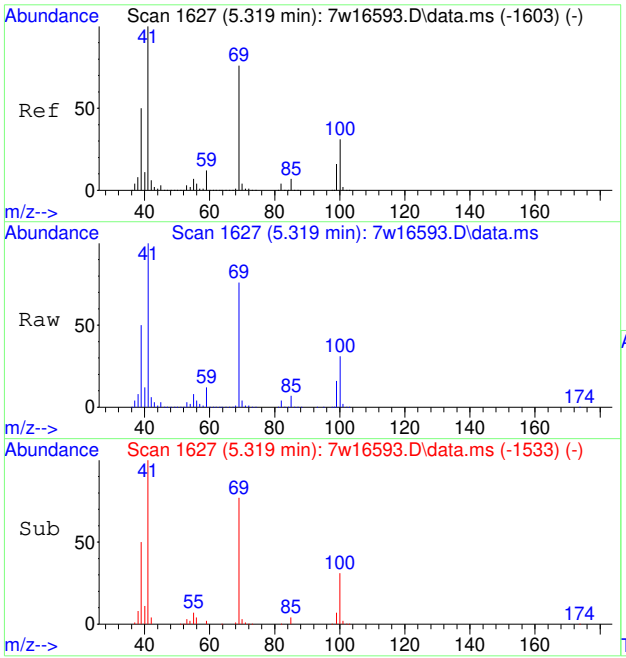


#62
HEPTANE
Concen: 49.34 PPBV
RT: 5.421 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1183014

Ion	Ratio	Lower	Upper
43	100		
71	56.1	38.9	72.2
57	59.0	40.5	75.3

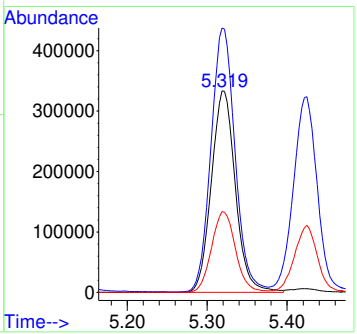


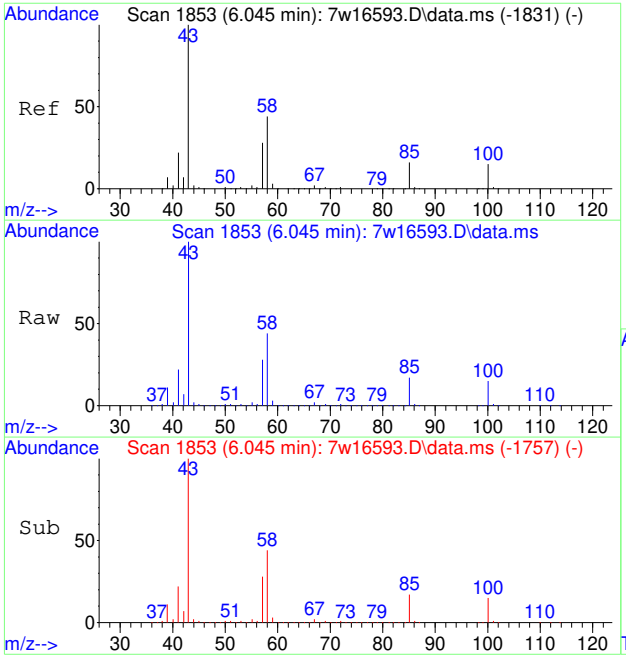


#63
METHYL METHACRYLATE
Concen: 52.38 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 696280

Ion	Ratio	Lower	Upper
69	100		
41	130.9	95.5	177.4
100	40.0	28.1	52.1

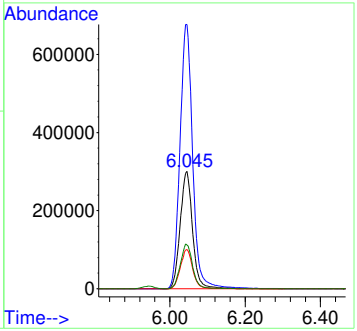


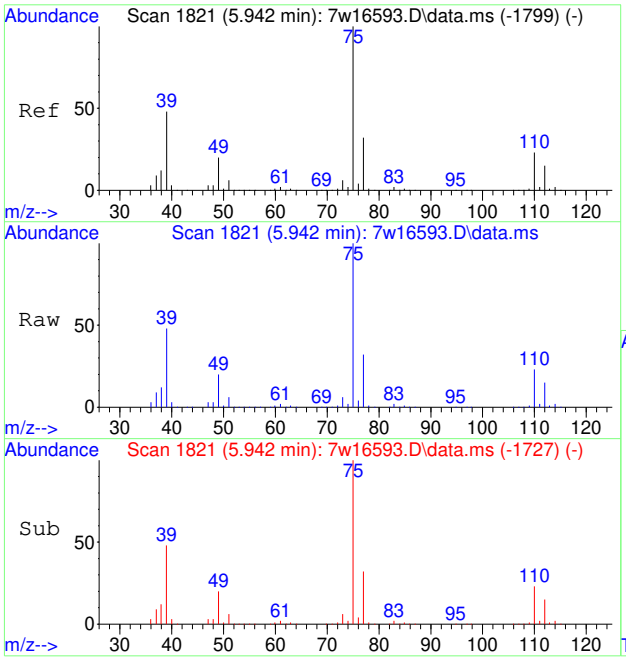


#64
METHYL ISOBUTYL KETONE
Concen: 48.13 PPBV
RT: 6.045 min Scan# 1853
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 692709

Ion	Ratio	Lower	Upper
58	100		
43	229.1	163.8	304.2
100	33.4	23.2	43.2
85	38.0	26.5	49.3

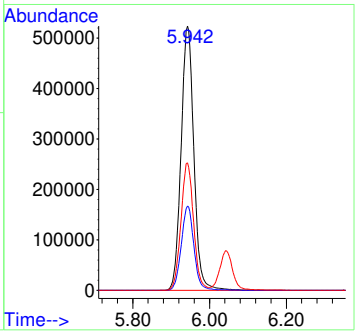


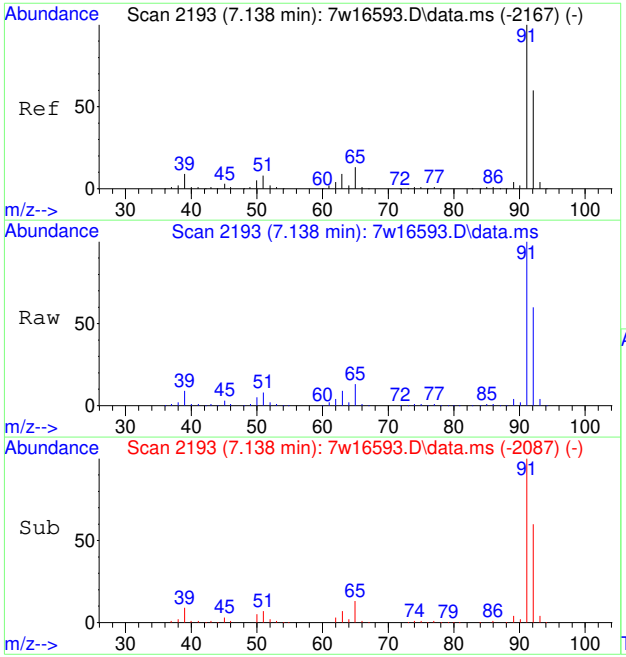


#65
CIS-1,3-DICHLOROPROPENE
Concen: 54.68 PPBV
RT: 5.942 min Scan# 1821
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1209649

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.0	41.0
39	47.8	35.7	66.3

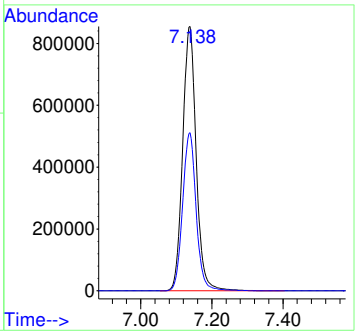


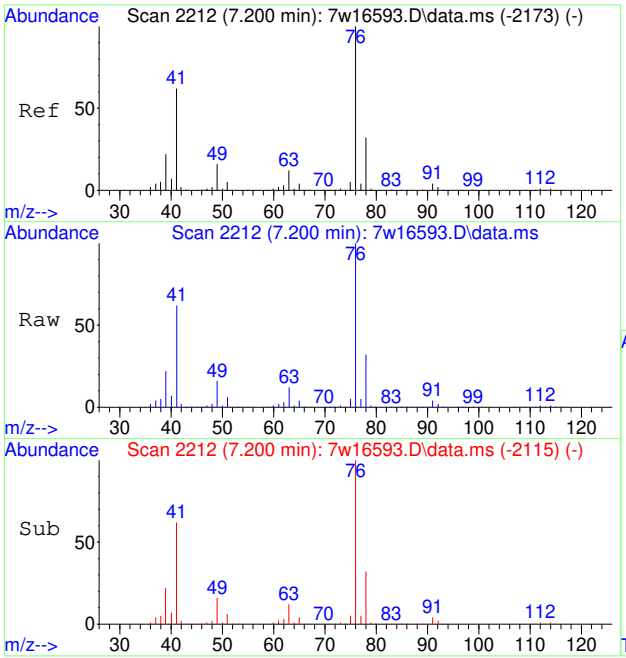


#66
TOLUENE
Concen: 53.54 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2257380

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

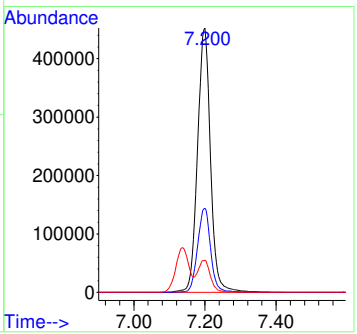


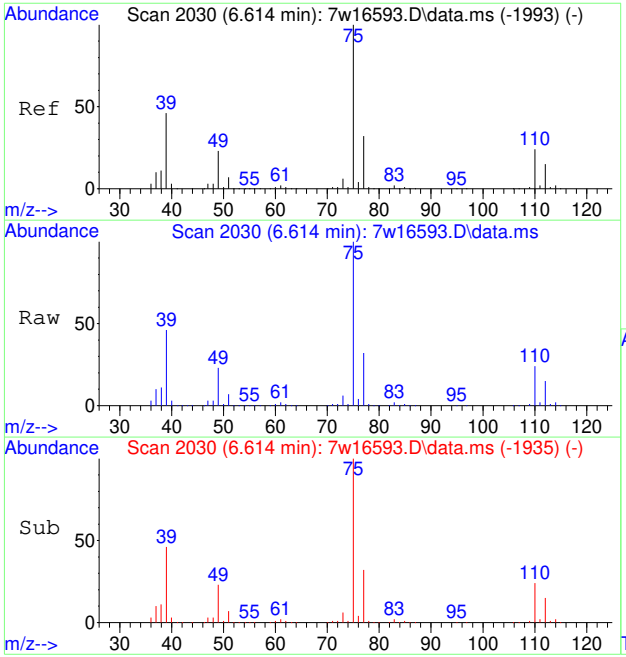


#67
1,3-DICHLOROPROPANE
Concen: 54.57 PPBV
RT: 7.200 min Scan# 2212
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1150031

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	11.7	8.3	15.5

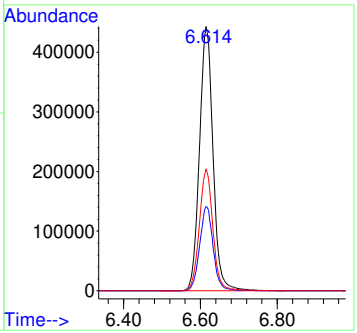


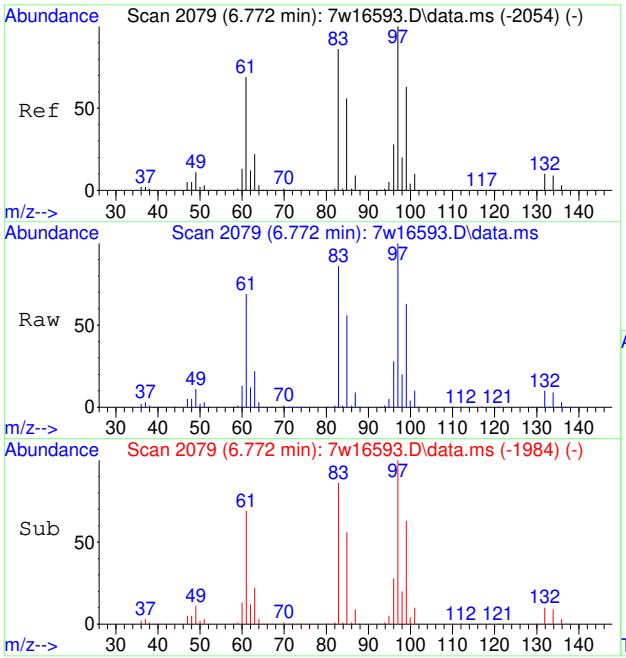


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 55.09 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1086853

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.3	41.5
39	46.3	33.9	63.0

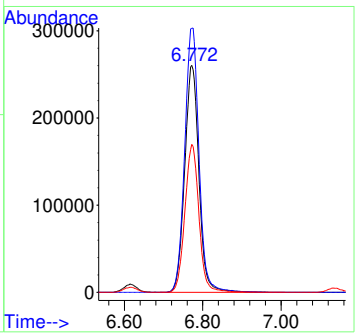


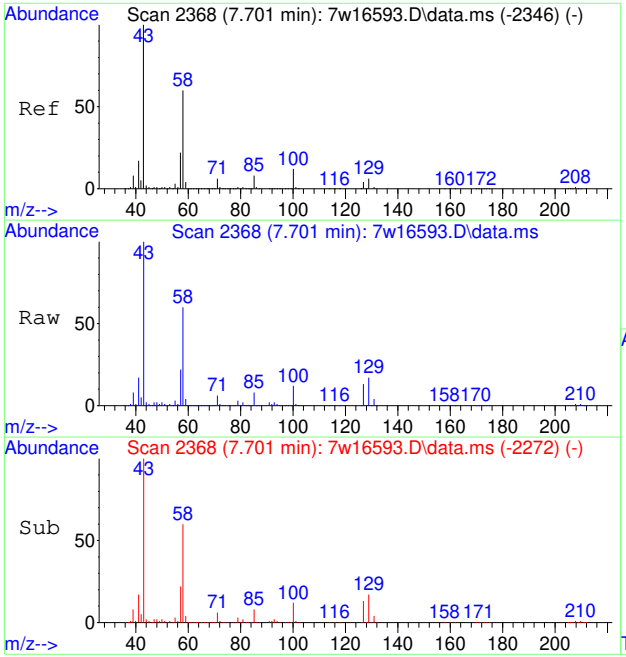


#69
1,1,2-TRICHLOROETHANE
Concen: 55.07 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 657452

Ion	Ratio	Lower	Upper
83	100		
97	117.1	81.2	150.8
85	64.6	45.1	83.7

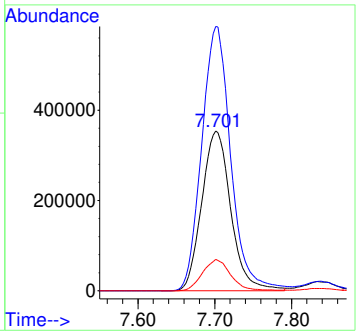


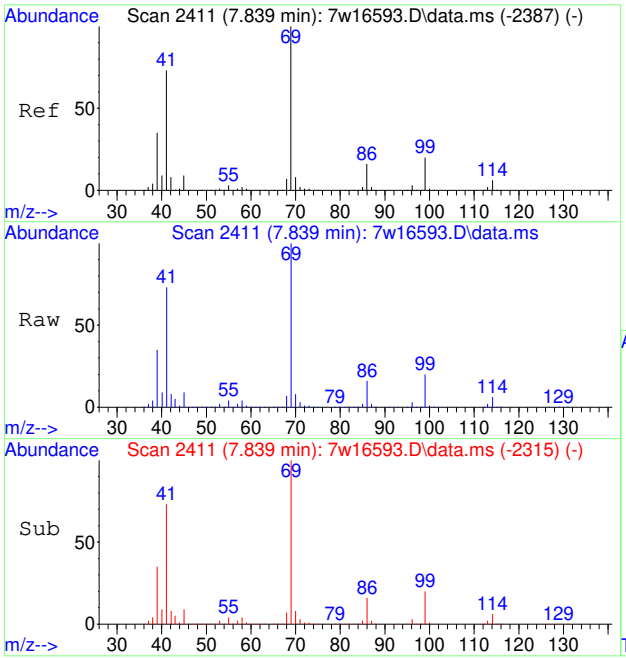


#70
2-HEXANONE
Concen: 45.78 PPBV
RT: 7.701 min Scan# 2368
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 931287

Ion	Ratio	Lower	Upper
58	100		
43	165.4	118.6	220.2
100	19.1	13.0	24.2

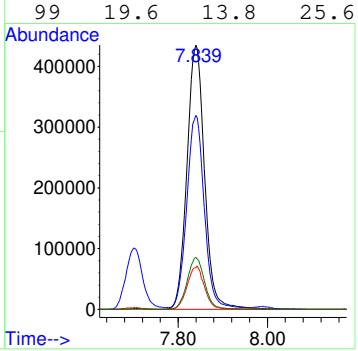


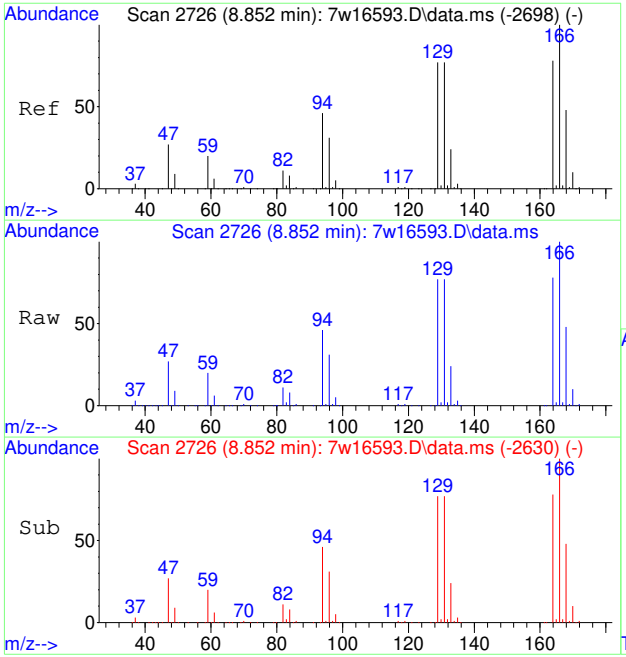


#71
ETHYL METHACRYLATE
Concen: 54.01 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 1191952

Ion	Ratio	Lower	Upper
69	100		
41	73.7	53.6	99.6
86	16.2	11.3	20.9
99	19.6	13.8	25.6

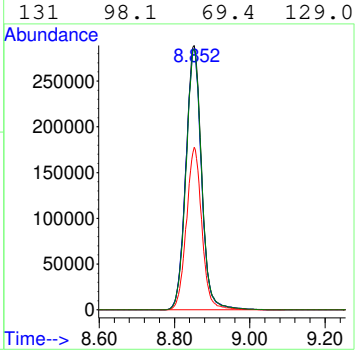


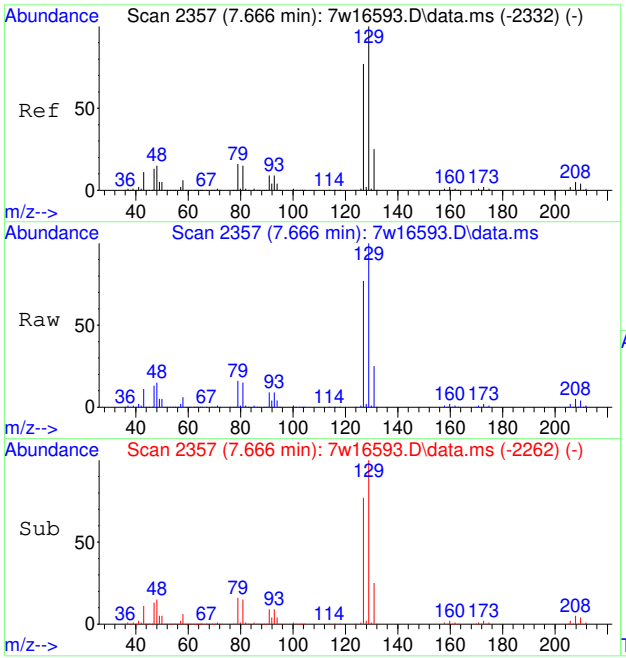


#72
TETRACHLOROETHENE
Concen: 54.58 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:164 Resp: 838148

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.1	69.4	129.0

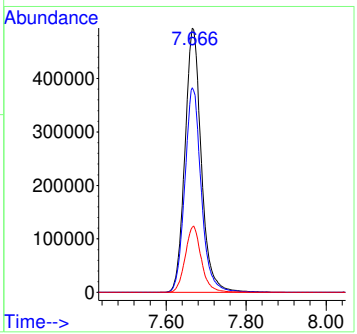


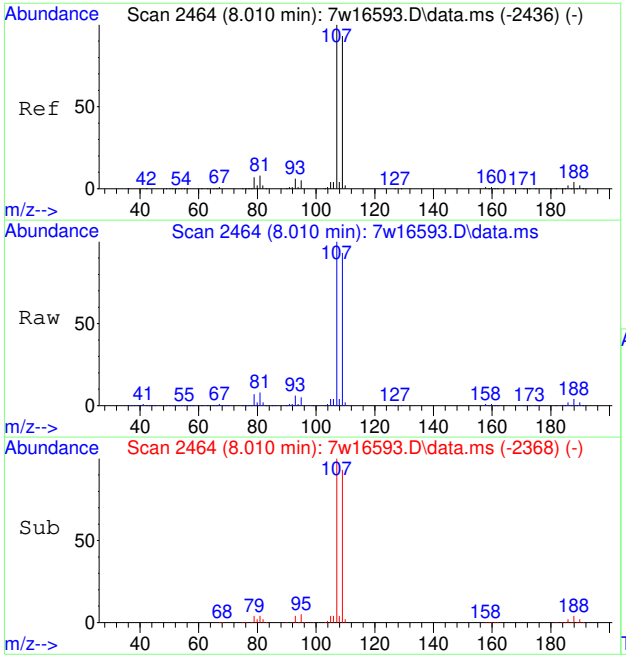


#73
DIBROMOCHLOROMETHANE
Concen: 58.86 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:129 Resp: 1403452

Ion	Ratio	Lower	Upper
129	100		
127	77.8	54.7	101.7
131	24.8	17.4	32.4

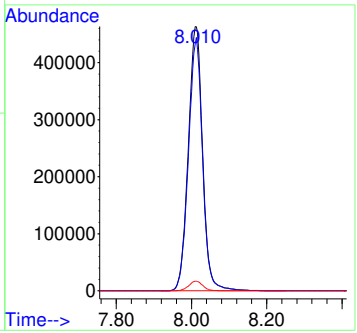


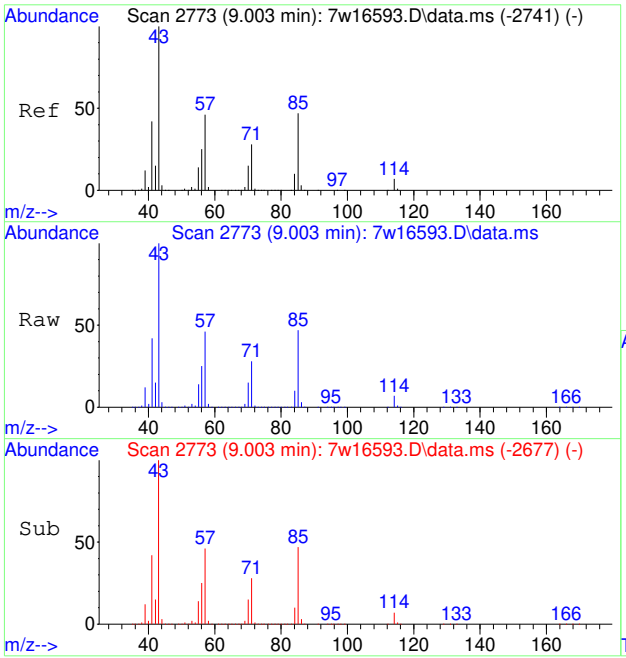


#74
1,2-DIBROMOETHANE
Concen: 56.46 PPBV
RT: 8.010 min Scan# 2464
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:107 Resp: 1223967

Ion	Ratio	Lower	Upper
107	100		
109	94.2	66.1	122.8
188	3.6	2.5	4.6

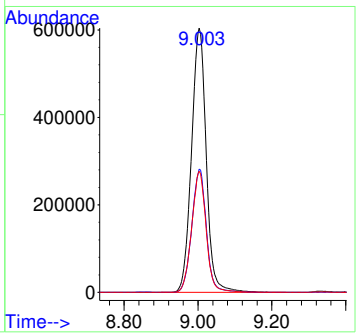


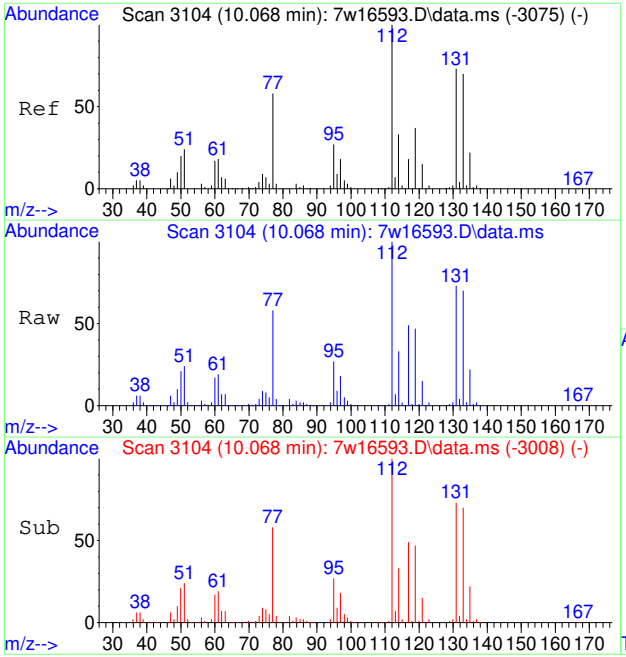


#75
OCTANE
Concen: 52.30 PPBV
RT: 9.003 min Scan# 2773
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1670114

Ion	Ratio	Lower	Upper
43	100		
85	46.2	31.8	59.0
57	45.2	31.4	58.2

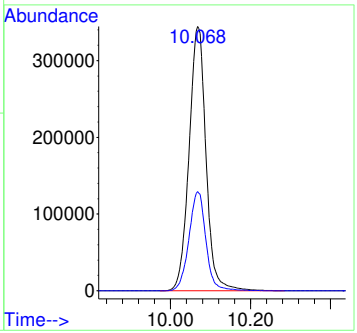


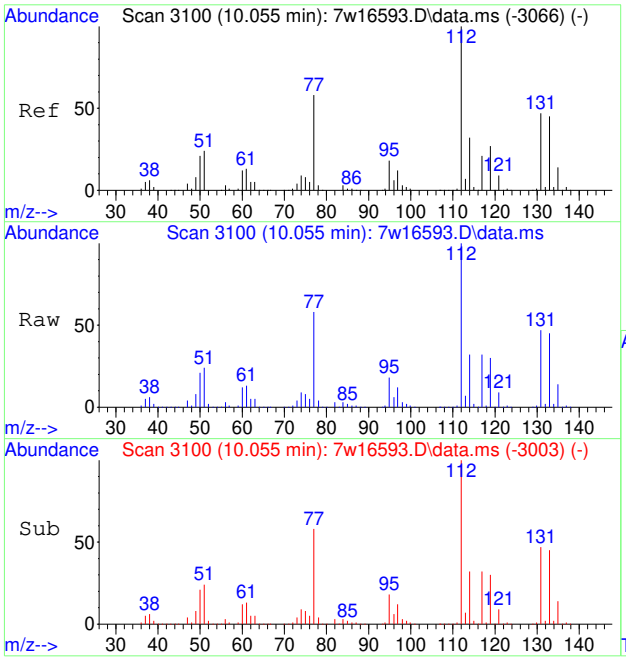


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 57.95 PPBV
RT: 10.068 min Scan# 3104
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:131 Resp: 1014574

Ion	Ratio	Lower	Upper
131	100		
95	37.6	26.5	49.1

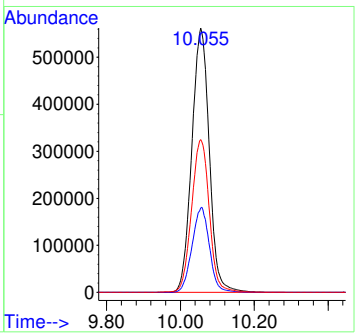


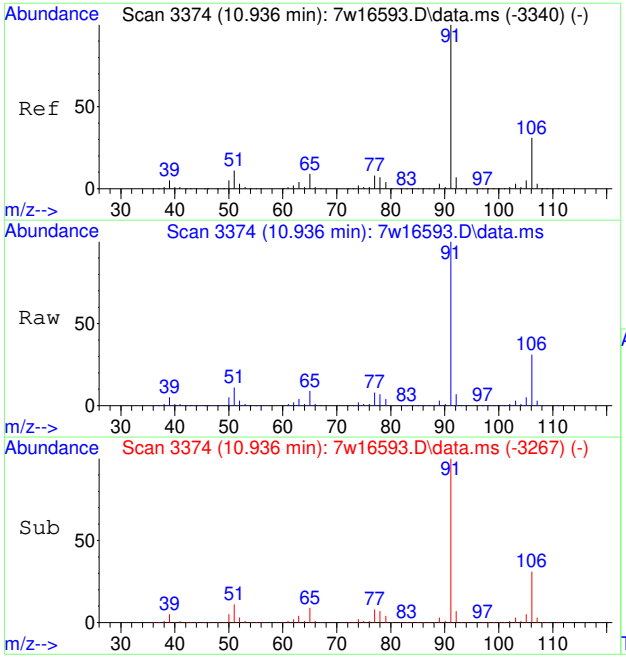


#78
CHLOROBENZENE
Concen: 54.82 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:112 Resp: 1847440

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.5	41.7
77	58.8	42.1	78.1

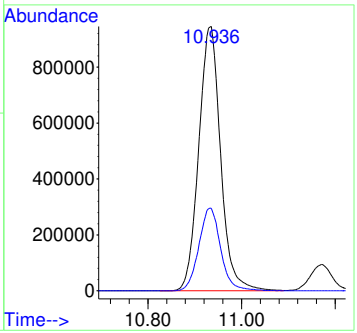


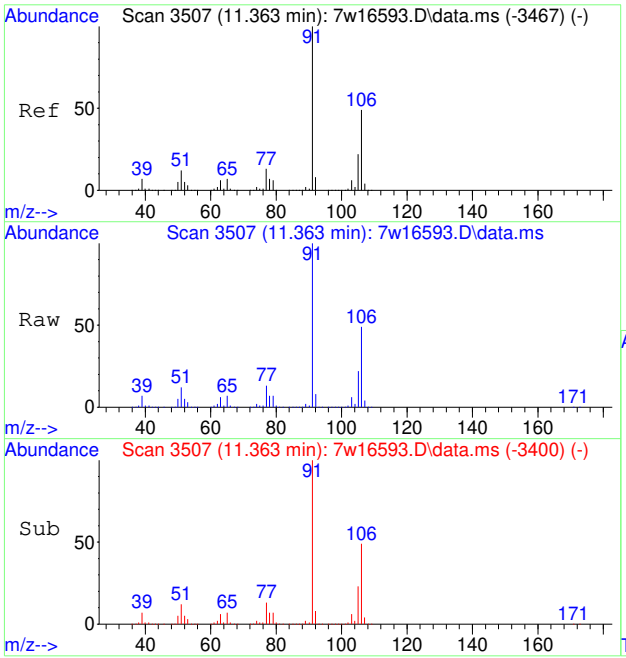


#79
ETHYLBENZENE
Concen: 55.49 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 3062670

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

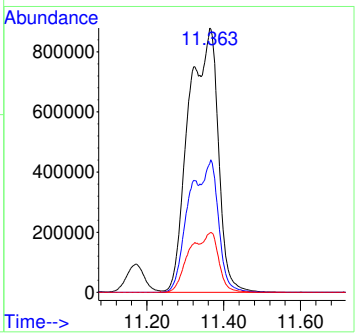


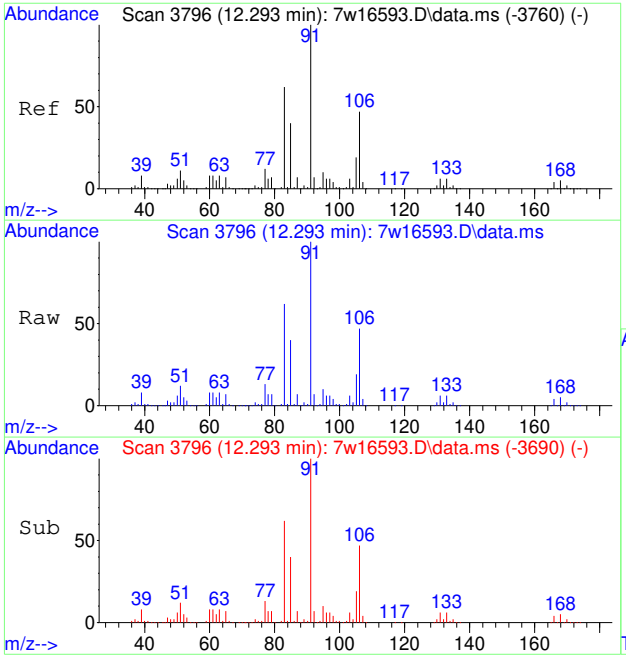


#80
M,P-XYLENE
Concen: 104.27 PPBV
RT: 11.363 min Scan# 3507
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 4688509

Ion	Ratio	Lower	Upper
91	100		
106	27.6	0.0	56.1
105	22.5	0.0	42.1

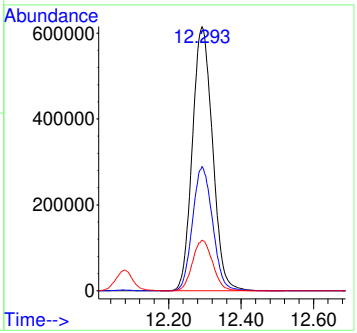


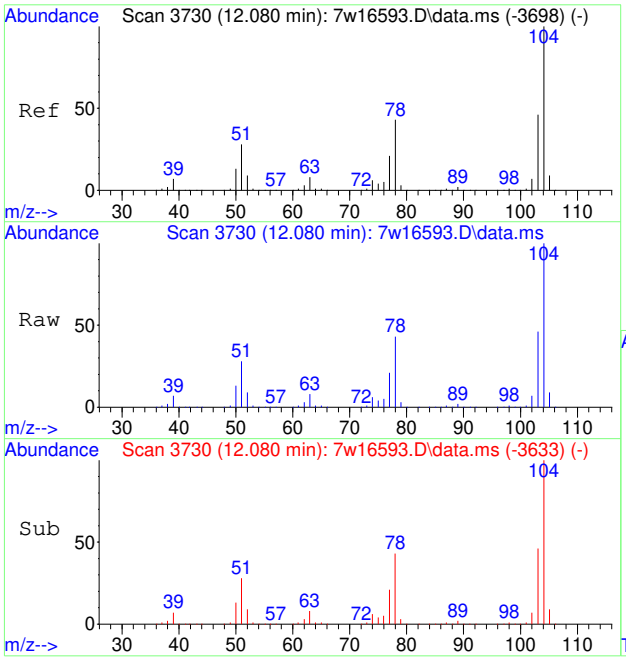


#81
O-XYLENE
Concen: 54.76 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2383048

Ion	Ratio	Lower	Upper
91	100		
106	47.0	31.8	59.0
105	19.2	13.0	24.2

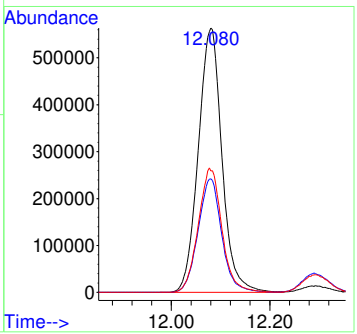


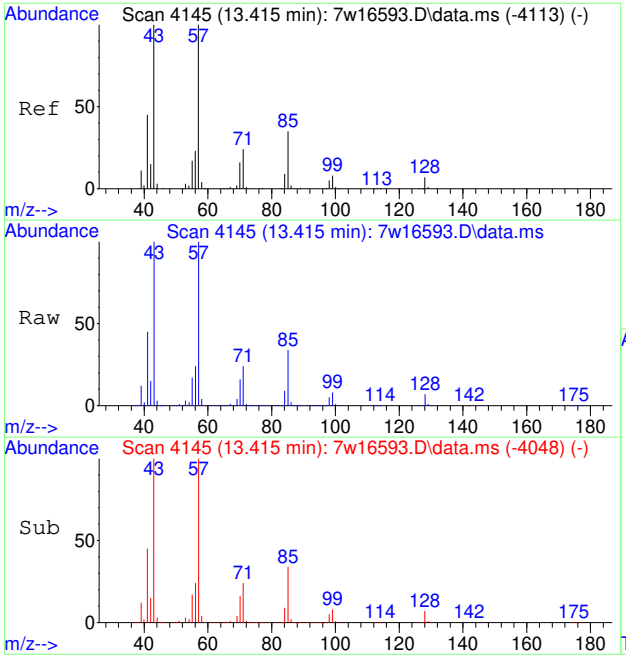


#82
STYRENE
Concen: 58.71 PPBV
RT: 12.080 min Scan# 3730
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:104 Resp: 1884473

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

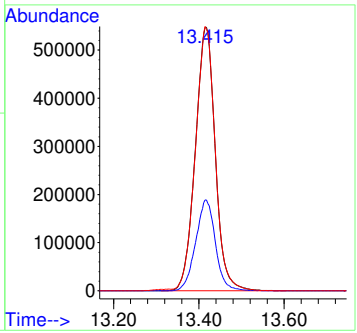


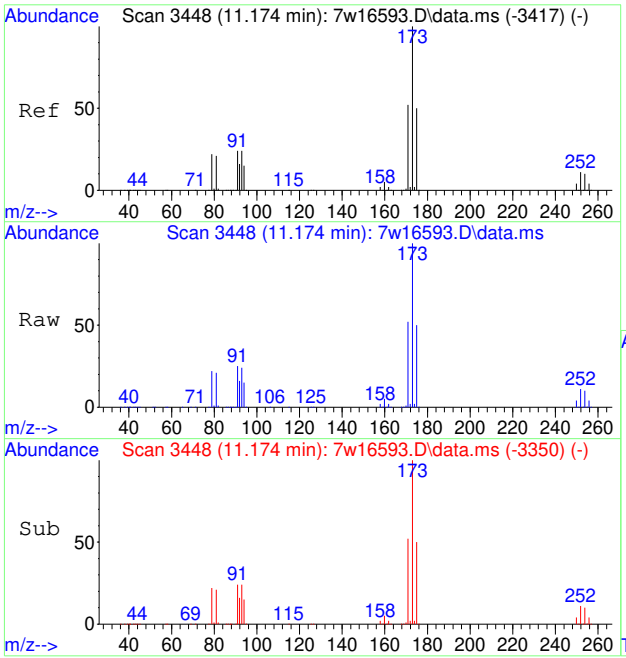


#83
NONANE
Concen: 52.08 PPBV
RT: 13.415 min Scan# 4145
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1775546

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.5	69.2	128.6

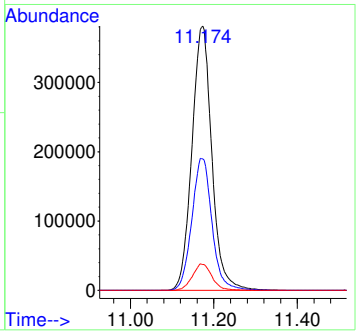


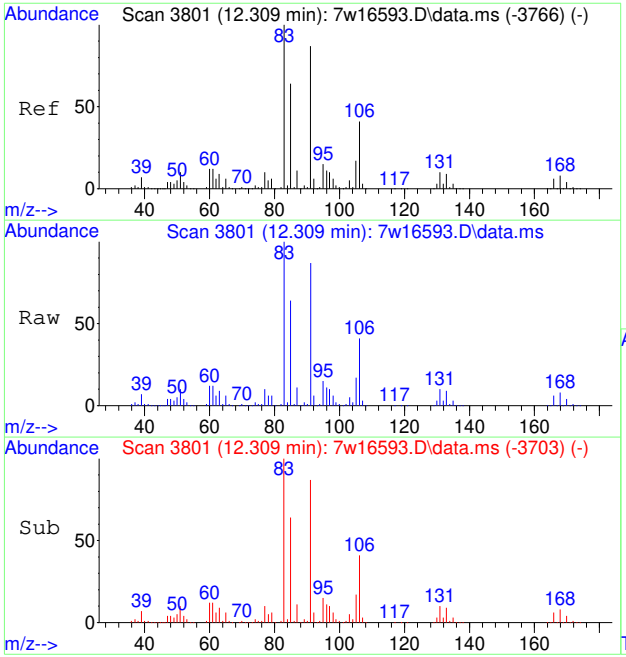


#84
BROMOFORM
Concen: 63.02 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:173 Resp: 1265430

Ion	Ratio	Lower	Upper
173	100		
175	50.6	35.1	65.1
254	10.0	6.7	12.5

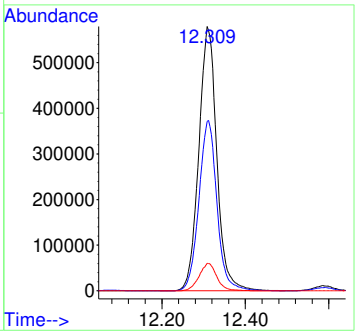


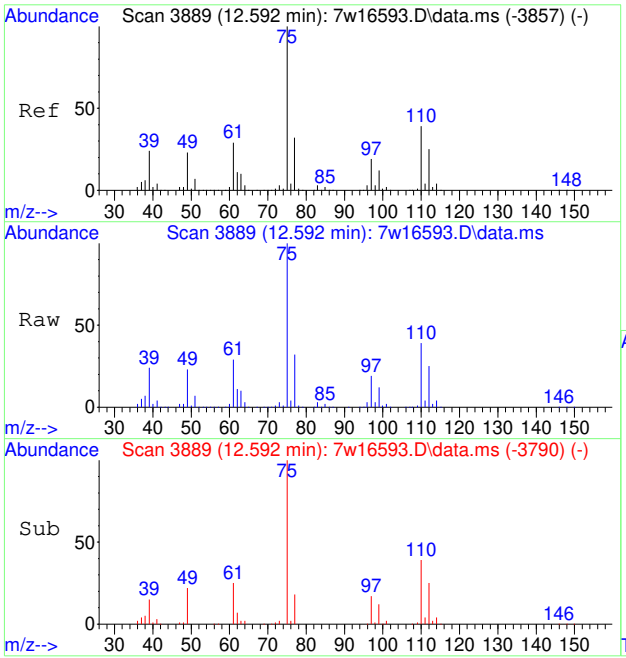


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 55.83 PPBV
RT: 12.309 min Scan# 3801
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1733579

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.3	7.3	13.5

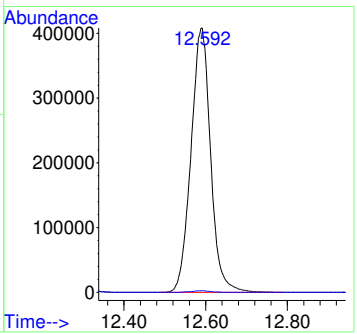


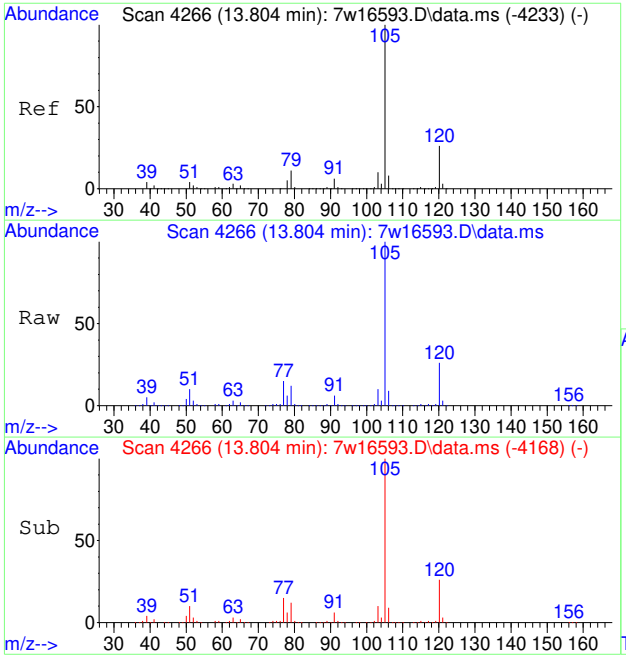


#86
1,2,3-TRICHLOROPROPANE
Concen: 55.93 PPBV
RT: 12.592 min Scan# 3889
Delta R.T. 0.019 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1360230

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

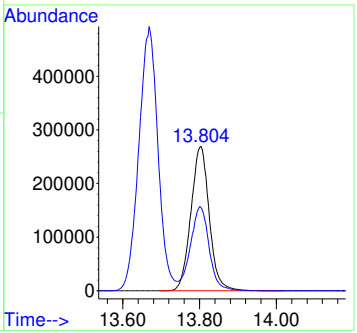


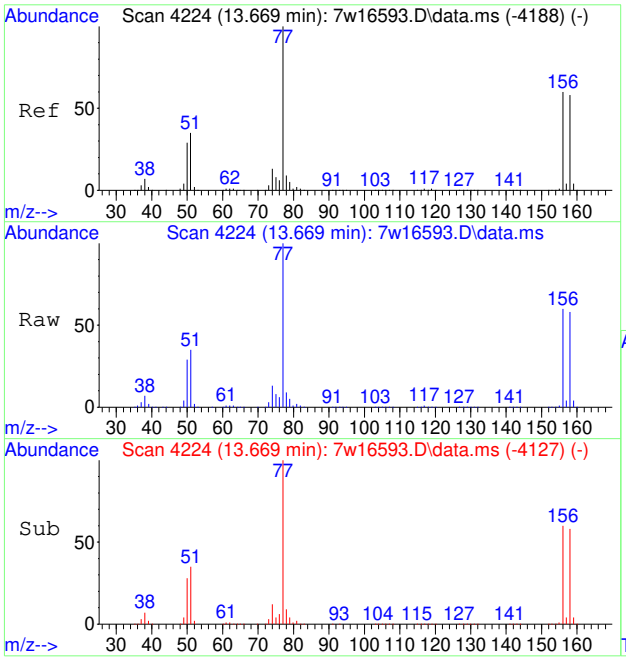


#88
ISOPROPYLBENZENE
Concen: 54.23 PPBV
RT: 13.804 min Scan# 4266
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 894931

Ion	Ratio	Lower	Upper
120	100		
77	59.5	42.5	78.9

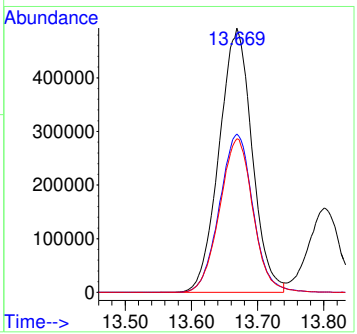


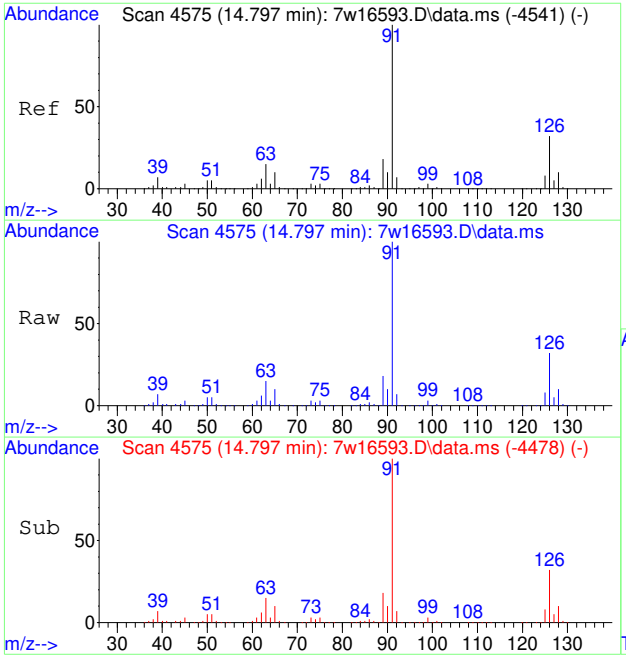


#89
BROMOBENZENE
Concen: 53.56 PPBV
RT: 13.669 min Scan# 4224
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 77 Resp: 1702334

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	59.1	40.9	76.0

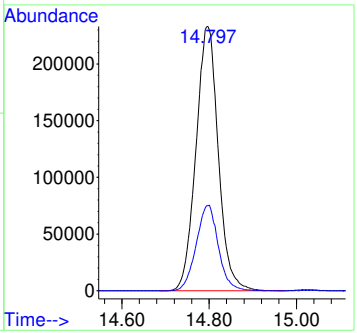


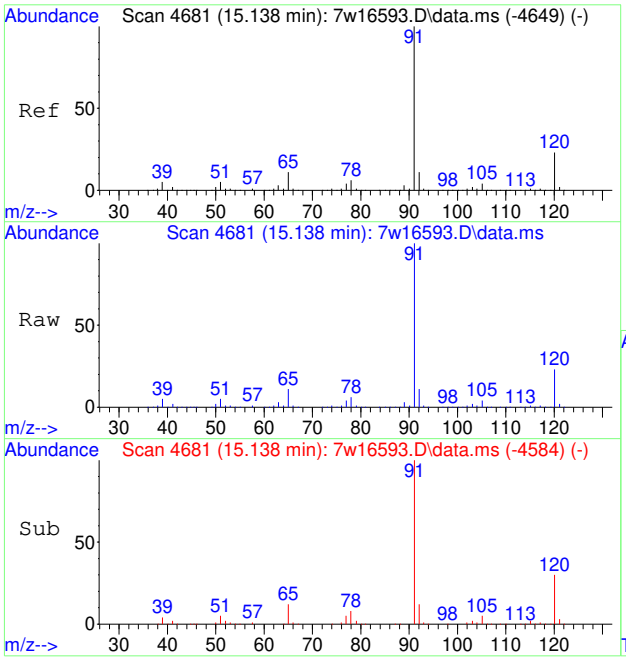


#90
2-CHLOROTOLUENE
Concen: 54.34 PPBV
RT: 14.797 min Scan# 4575
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:126 Resp: 829710

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

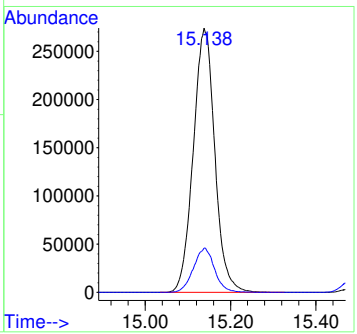


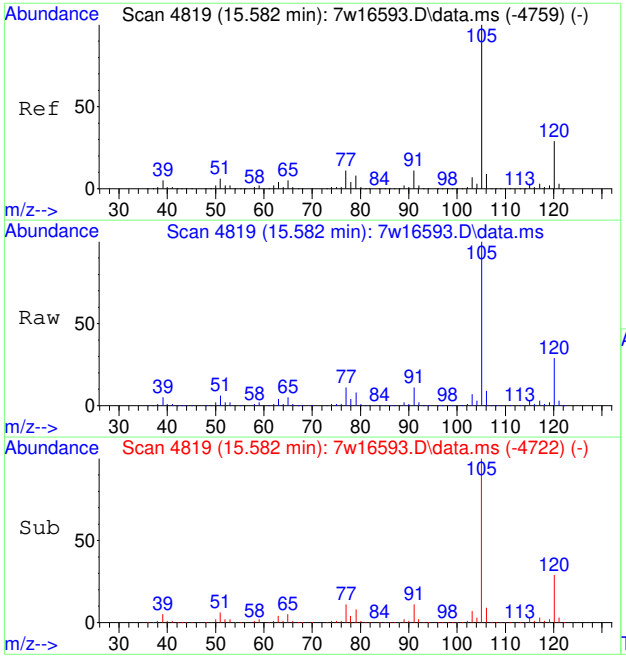


#91
N-PROPYLBENZENE
Concen: 55.42 PPBV
RT: 15.138 min Scan# 4681
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 961239

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

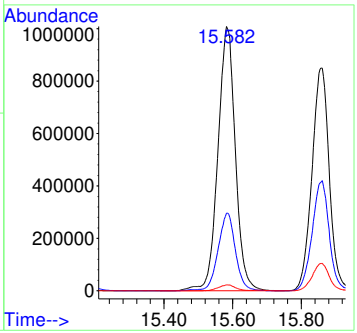


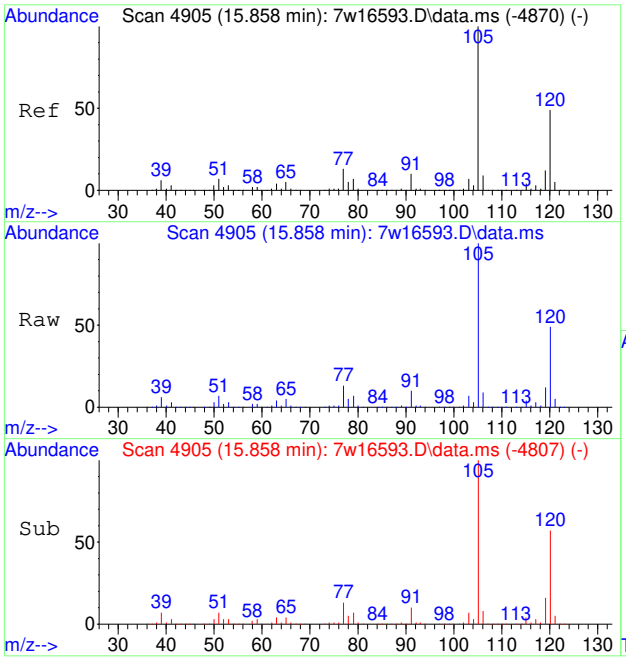


#92
4-ETHYLTOLUENE
Concen: 55.47 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3566781

Ion	Ratio	Lower	Upper
105	100		
120	29.3	20.7	38.5
119	2.2	1.6	3.0

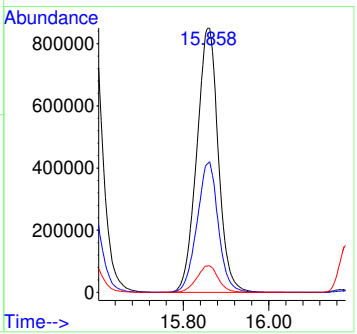


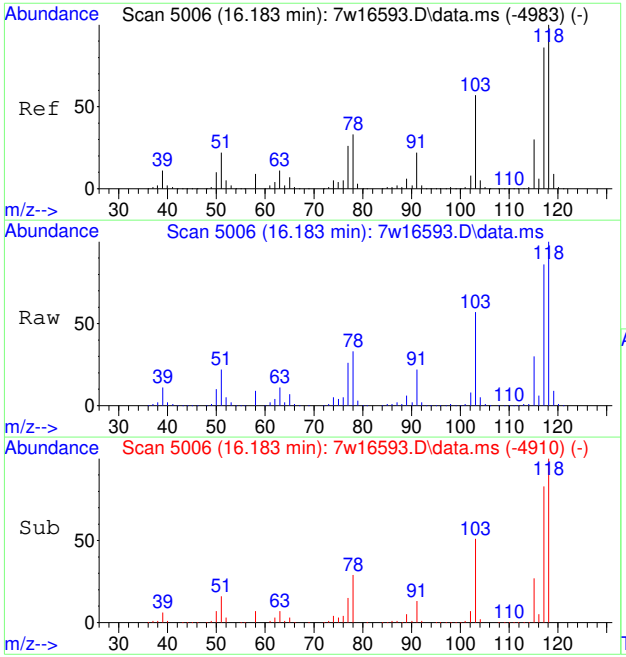


#93
1,3,5-TRIMETHYLBENZENE
Concen: 55.47 PPBV
RT: 15.858 min Scan# 4905
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2975442

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

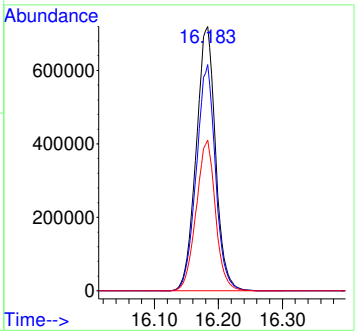


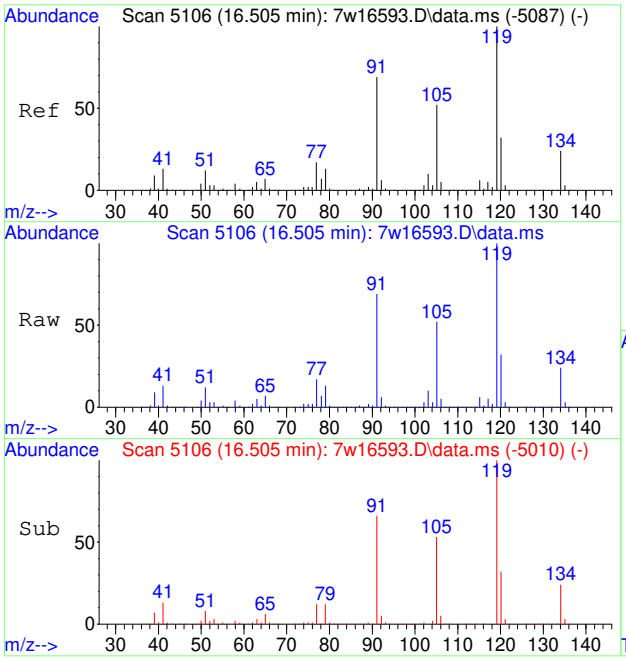


#94
ALPHA-METHYLSTYRENE
Concen: 57.73 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:118 Resp: 1513322

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.8	40.3	74.9

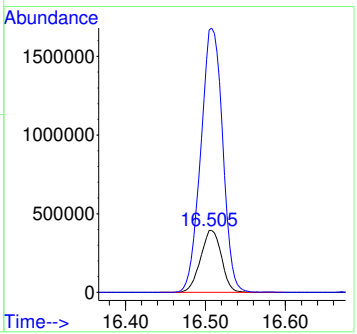


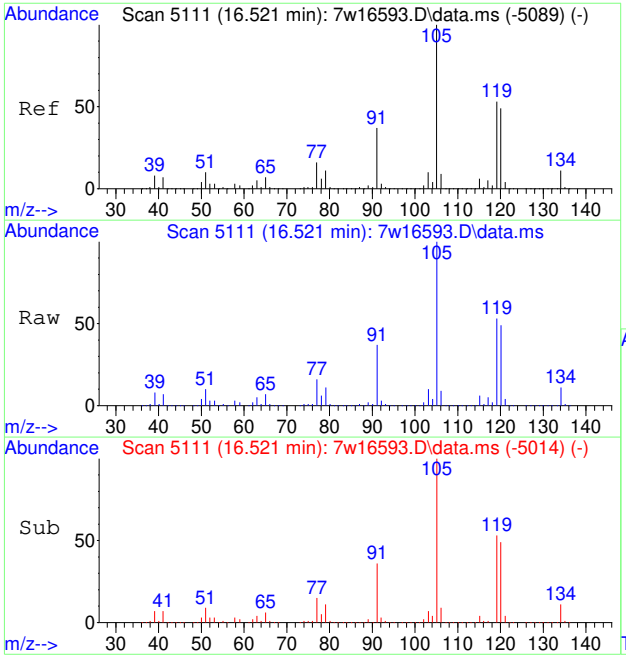


#95
TERT-BUTYLBENZENE
Concen: 54.19 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 714841

Ion	Ratio	Lower	Upper
134	100		
119	446.9	311.3	578.1

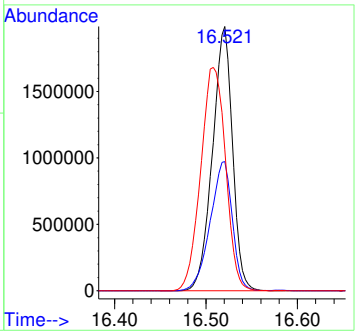


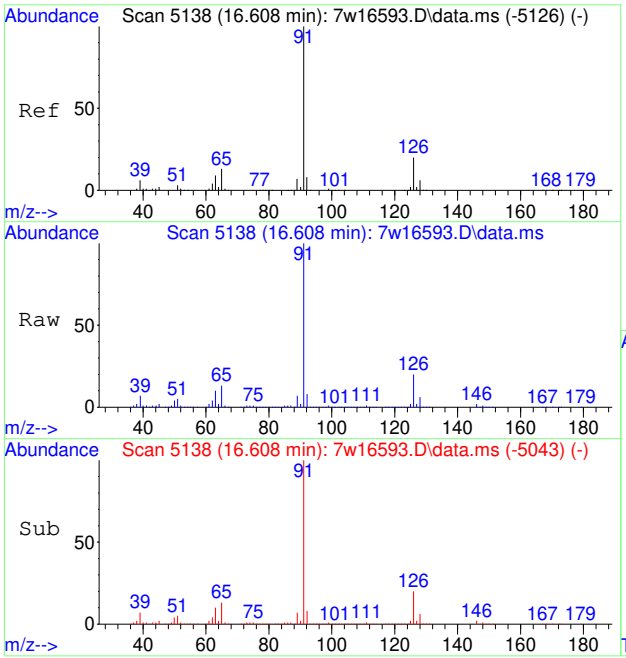


#96
1,2,4-TRIMETHYLBENZENE
Concen: 57.25 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3037196

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

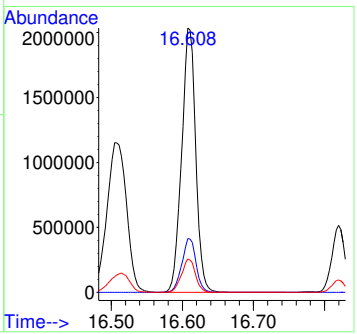


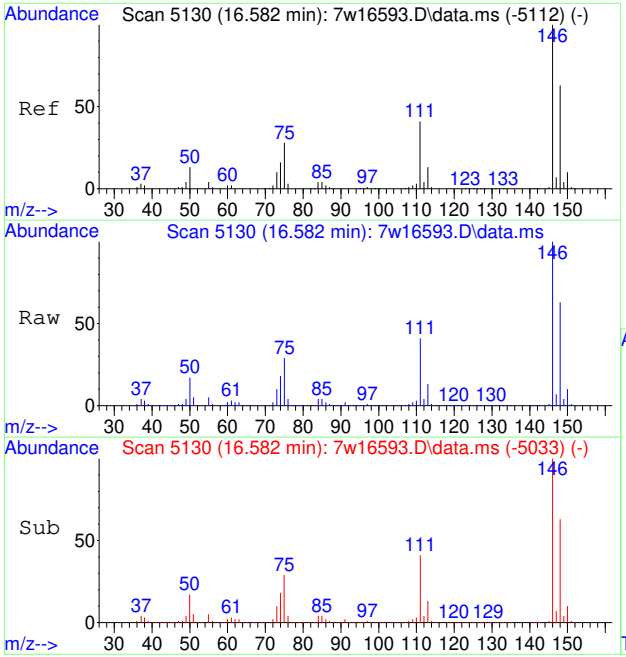


#97
BENZYL CHLORIDE
Concen: 68.69 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2795409

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.6	9.2	17.0

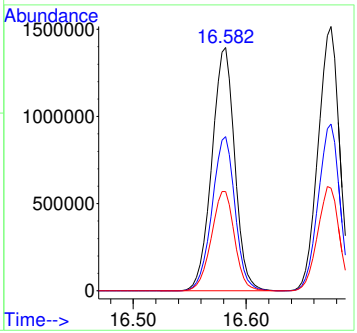


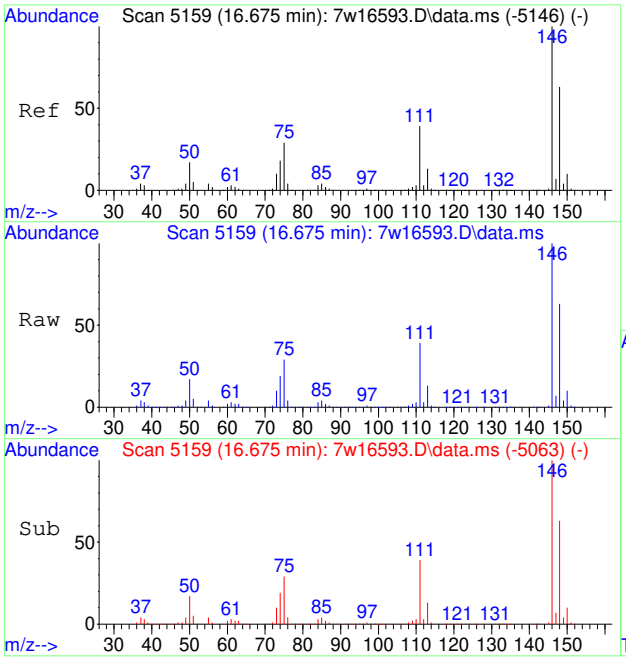


#98
M-DICHLOROBENZENE
Concen: 53.40 PPBV
RT: 16.582 min Scan# 5130
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1958237

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.6	82.8
111	41.4	29.3	54.3

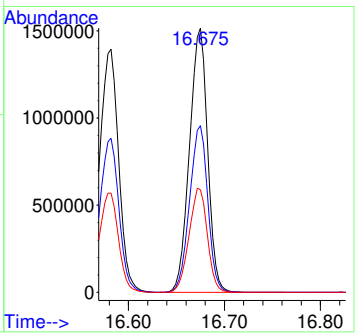


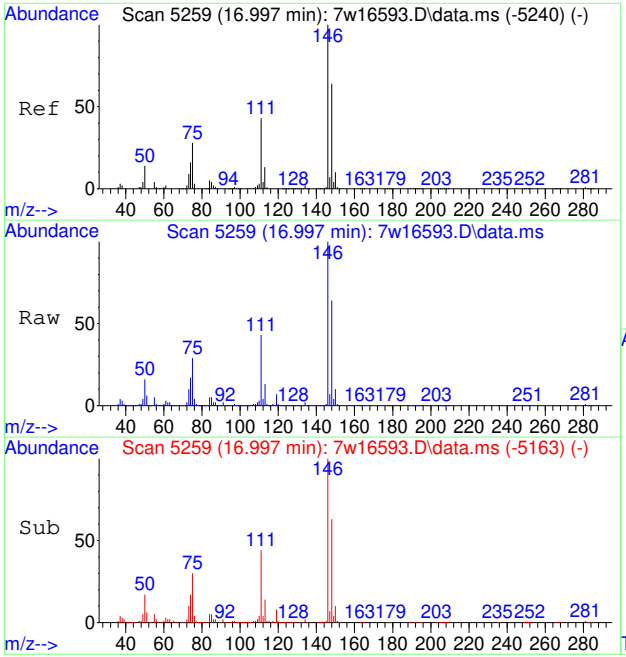


#99
P-DICHLOROBENZENE
Concen: 55.15 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1991134

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.2	82.2
111	39.9	28.0	52.0

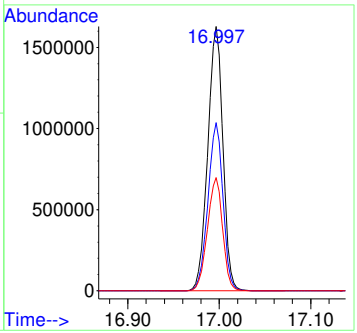


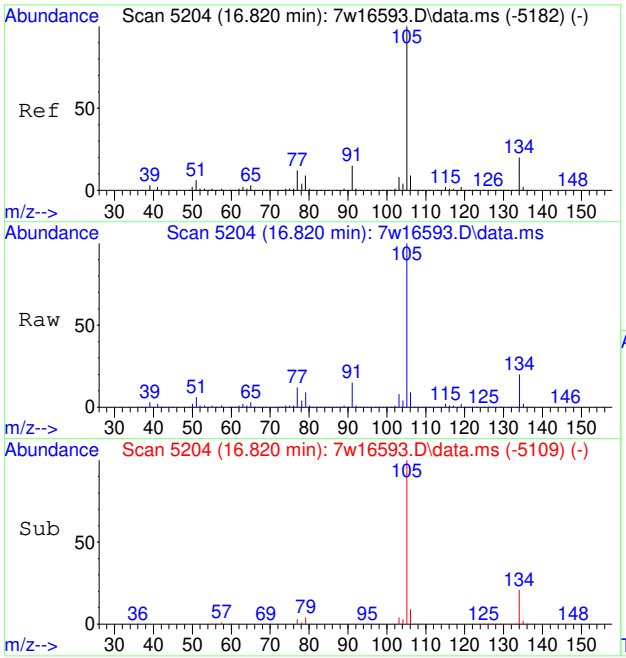


#100
O-DICHLOROBENZENE
Concen: 55.08 PPBV
RT: 16.997 min Scan# 5259
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1868131

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

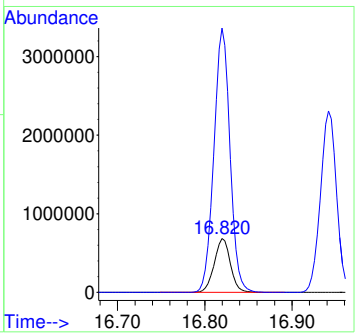


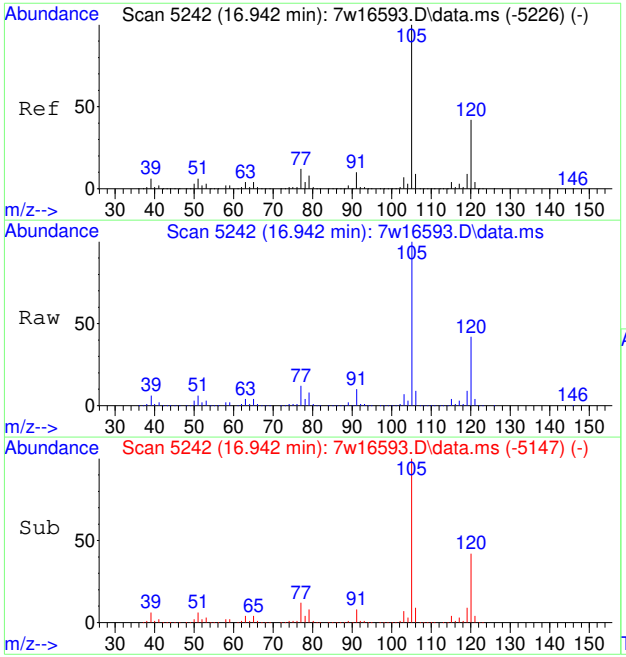


#101
SEC-BUTYLBENZENE
Concen: 56.32 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 879244

Ion	Ratio	Lower	Upper
134	100		
105	490.4	344.8	640.3

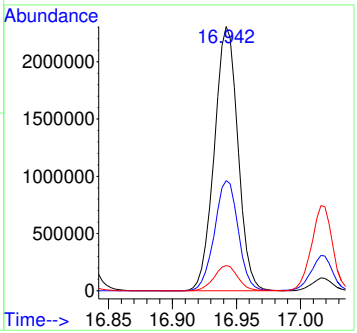


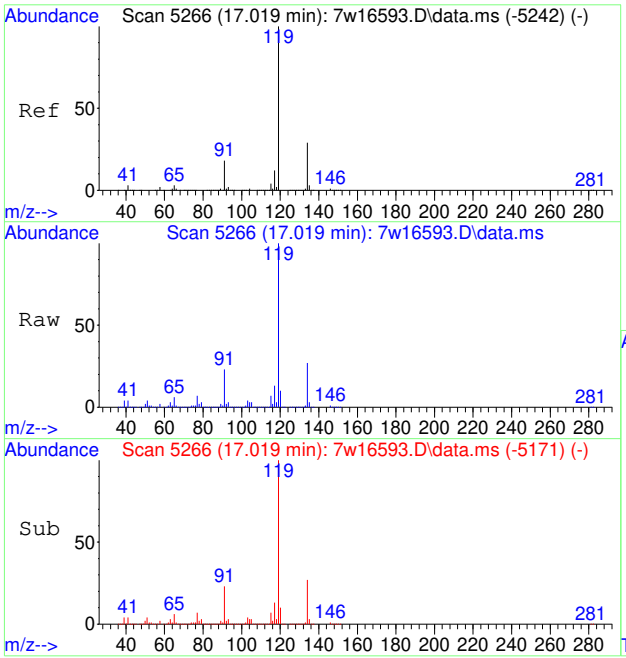


#102
1,2,3-TRIMETHYLBENZENE
Concen: 55.49 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2956799

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	9.7	7.0	13.0

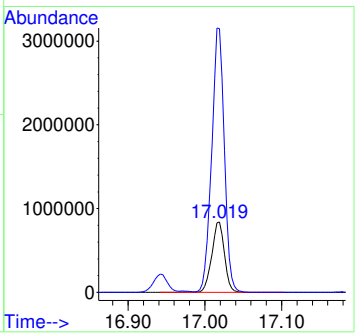


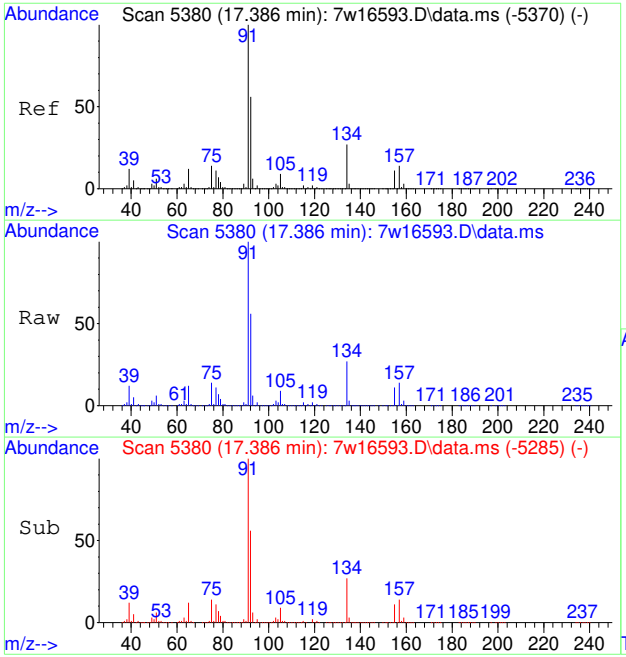


#103
P-ISOPROPYLTOLUENE
Concen: 55.64 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 964439

Ion	Ratio	Lower	Upper
134	100		
119	374.7	261.4	485.4

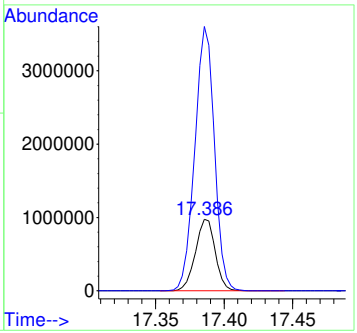


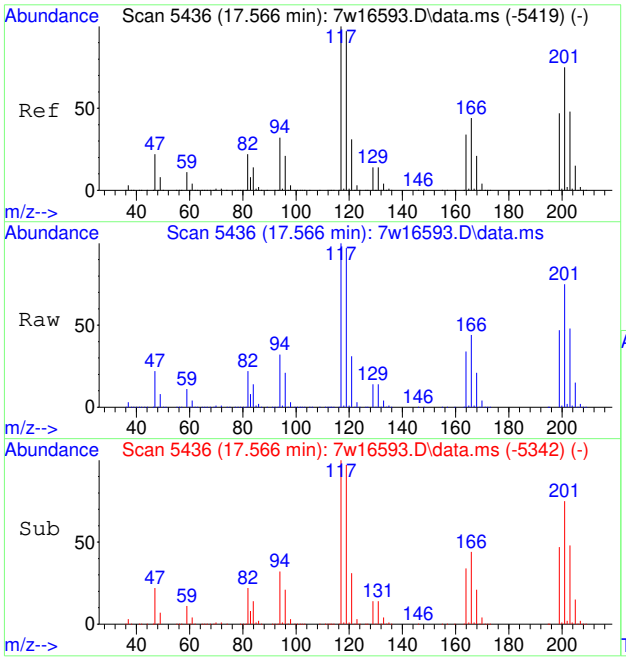


#104
N-BUTYLBENZENE
Concen: 59.74 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 974353

Ion	Ratio	Lower	Upper
134	100		
91	366.6	261.0	484.8

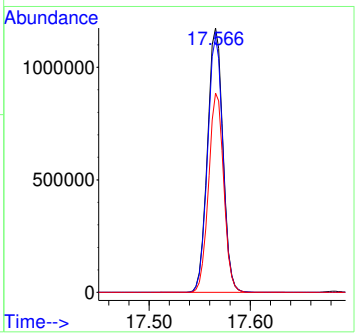


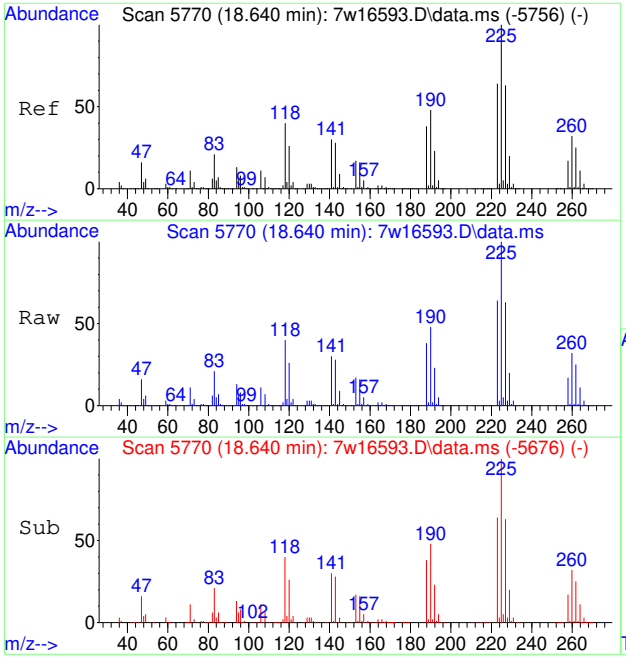


#105
HEXACHLOROETHANE
Concen: 62.73 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1246101

Ion	Ratio	Lower	Upper
117	100		
119	95.9	67.7	125.7
201	73.7	49.8	92.6

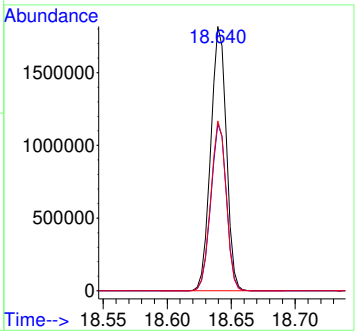


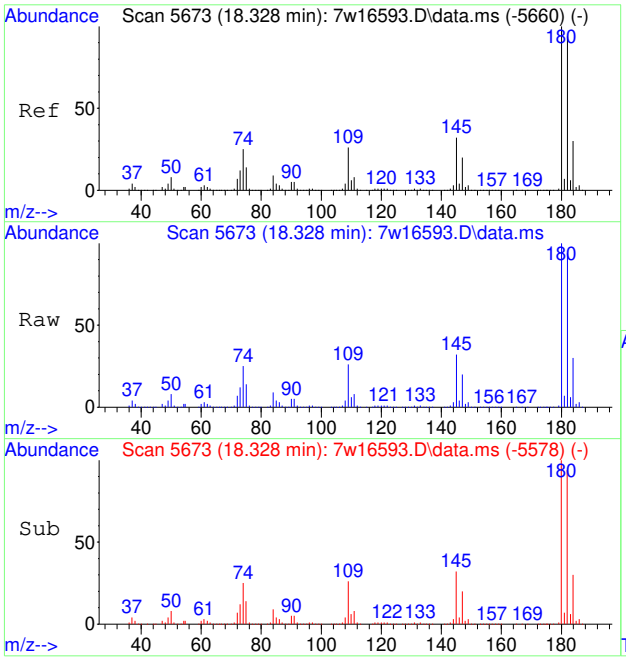


#106
HEXACHLOROBUTADIENE
Concen: 64.95 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:225 Resp: 1541106

Ion	Ratio	Lower	Upper
225	100		
227	63.0	44.6	82.8
223	63.6	44.6	82.8

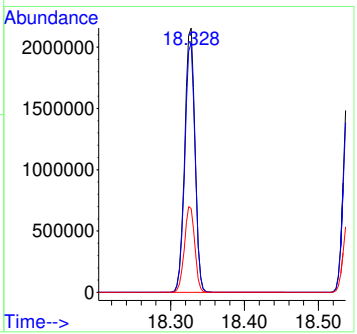


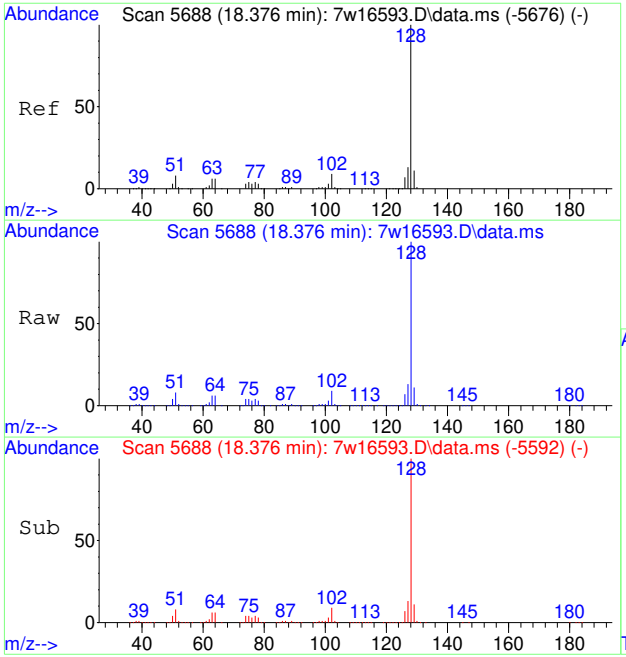


#107
1,2,4-TRICHLOROBENZENE
Concen: 76.81 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:180 Resp: 2093092

Ion	Ratio	Lower	Upper
180	100		
182	94.1	66.6	123.6
145	32.6	22.5	41.9

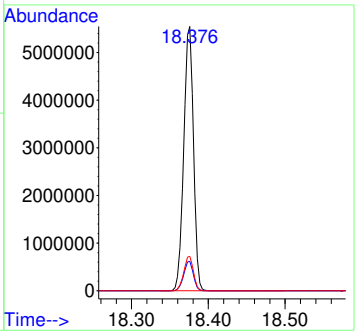


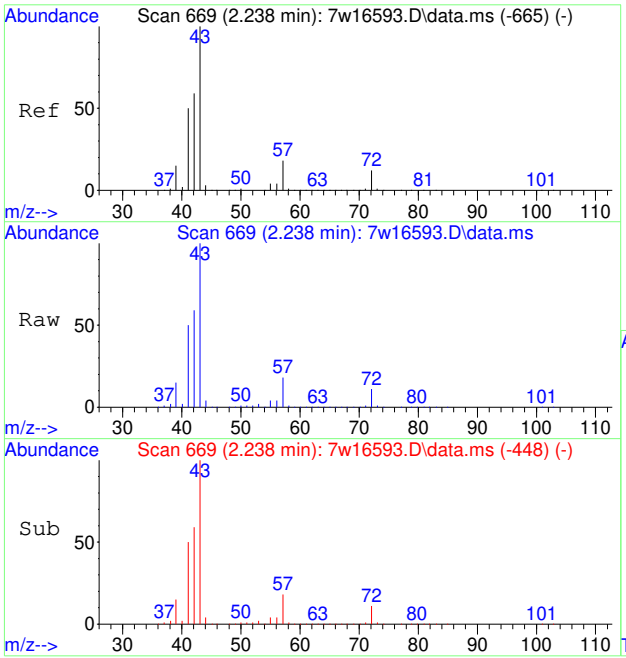


#108
NAPHTHALENE
Concen: 81.19 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:128 Resp: 4901356

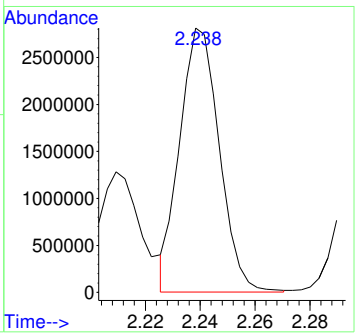
Ion	Ratio	Lower	Upper
128	100		
129	11.1	7.5	13.9
127	12.9	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 45.25 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:TIC Resp: 2811423



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16593.D
Injection Time: 08/07/25 15:15

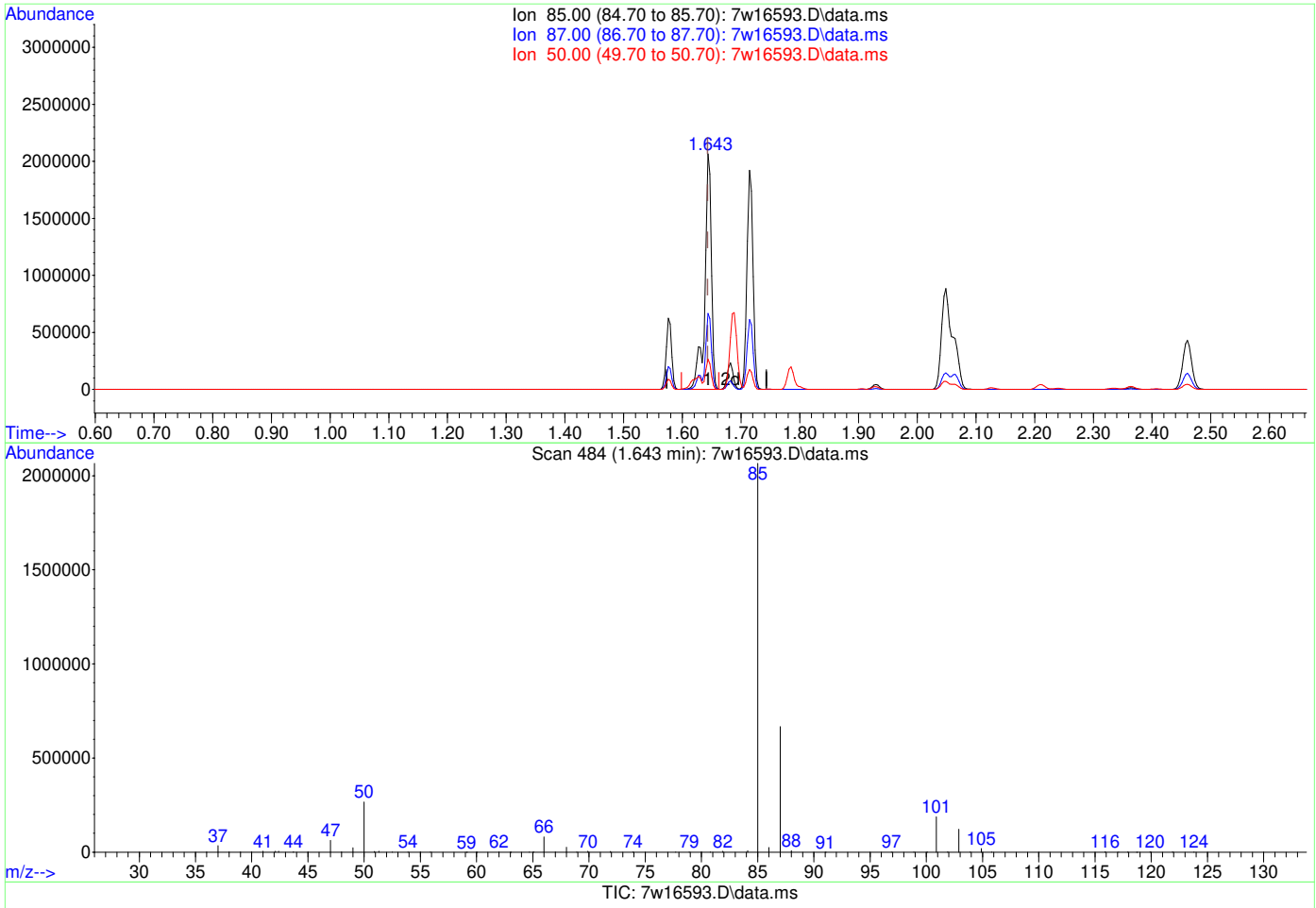
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration



TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 53.32PPBV

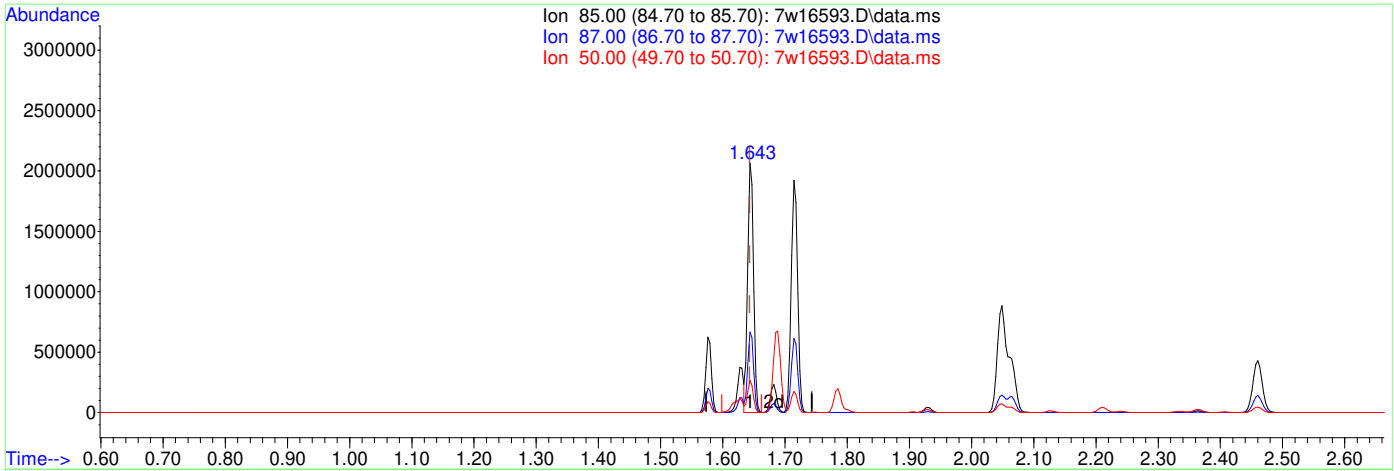
response 1605785

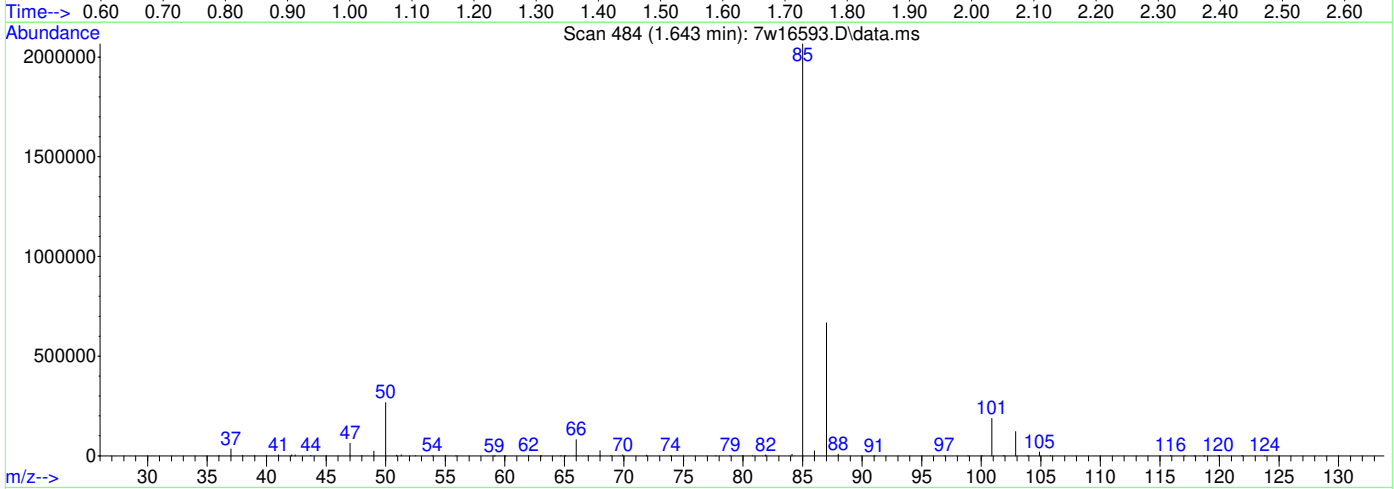
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.49
50.00	19.30	18.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 44.53PPBV m

response 1341049

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.90
50.00	19.30	22.31
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	106909	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	531012	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	486982	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	106911	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.321	95	402638	10.30	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	416591	62.18	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	181942	62.53	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.631	116	917974	65.92	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.643	85	1586079m	52.05	PPBV		
7) PROPYLENE	1.627	41	519681	59.64	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1374618	59.89	PPBV		99
9) FREON 114	1.714	85	1619416	61.25	PPBV		99
10) CHLOROMETHANE	1.688	52	212421	57.28	PPBV		98
11) VINYL CHLORIDE	1.746	62	763152	58.43	PPBV		99
12) 1,3-BUTADIENE	1.785	54	588014	56.79	PPBV		97
13) N-BUTANE	1.801	43	1009195	57.39	PPBV		99
14) BROMOMETHANE	1.859	94	580953	57.25	PPBV		99
15) CHLOROETHANE	1.904	64	396609	55.81	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	1380281	56.11	PPBV		99
17) ACETONITRILE	1.994	41	581922	47.00	PPBV		99
18) ACROLEIN	2.032	56	334897	57.43	PPBV		100
19) FREON 123	2.049	83	1521669	61.54	PPBV		100
20) FREON 123A	2.065	117	890775	60.73	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1563139	55.76	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1360413	57.05	PPBV		99
23) ACETONE	2.071	58	370968	56.95	PPBV		93
24) PENTANE	2.238	42	709359	54.82	PPBV		99
25) IODOMETHANE	2.299	142	1579517	61.48	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	645693	60.57	PPBV		94
27) CARBON DISULFIDE	2.463	76	1800975	59.49	PPBV		96
28) ETHANOL	1.933	45	326453	51.26	PPBV		99
29) BROMOETHENE	2.004	106	595538	58.65	PPBV		100
30) ACRYLONITRILE	2.209	52	549118	60.13	PPBV		100
31) METHYLENE CHLORIDE	2.364	84	575223	54.71	PPBV		93
32) 3-CHLOROPROPENE	2.405	76	332976	58.47	PPBV		92
33) FREON 113	2.460	151	974461	60.76	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	2.688	96	674414	57.48	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.338	59	1507671	50.59	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	2004125	60.14	PPBV		99
37) TETRAHYDROFURAN	3.467	72	315623	58.71	PPBV		97
38) HEXANE	3.241	57	1329253	59.12	PPBV		95
39) VINYL ACETATE	2.830	86	203564	64.15	PPBV		90
40) 1,1-DICHLOROETHANE	2.762	63	1312399	57.90	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	360548	58.79	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	737182	60.78	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	381162	59.86	PPBV		90
44) ETHYL ACETATE	3.251	61	270078	63.06	PPBV		85
45) METHYL ACRYLATE	3.238	55	1639035	60.36	PPBV	#	100
46) CHLOROFORM	3.267	83	1396609	59.52	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1562455	62.29	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1503844	61.02	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1592865	62.67	PPBV		100
50) 1,2-DICHLOROETHANE	3.666	62	1086518	59.76	PPBV		100

Quantitation Report (QT Reviewed)

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Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.132	78	2141182	59.55	PPBV		99
53)	CYCLOHEXANE	4.335	84	968144	62.31	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.589	71	501690	64.89	PPBV		100
55)	TRICHLOROETHENE	5.023	95	961087	57.89	PPBV		99
56)	1,2-DICHLOROPROPANE	4.788	63	899764	61.43	PPBV		99
57)	DIBROMOMETHANE	4.749	174	843168	59.53	PPBV		98
58)	ETHYL ACRYLATE	4.907	55	2081872	63.61	PPBV		100
59)	BROMODICHLOROMETHANE	4.968	83	1618277	60.60	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.113	57	4127531	57.19	PPBV		100
61)	1,4-DIOXANE	5.026	88	483214m	61.98	PPBV		
62)	HEPTANE	5.425	43	1404941	59.03	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	825175	62.06	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.048	58	823387	57.66	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.946	75	1444587	64.81	PPBV		97
66)	TOLUENE	7.138	91	2694962	63.95	PPBV		100
67)	1,3-DICHLOROPROPANE	7.199	76	1360921	64.47	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.618	75	1302469	65.06	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.772	83	774964	64.67	PPBV	#	31
70)	2-HEXANONE	7.704	58	1106138	55.20	PPBV		97
71)	ETHYL METHACRYLATE	7.843	69	1420765	64.21	PPBV		97
72)	TETRACHLOROETHENE	8.855	164	995678	64.80	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.669	129	1671777	69.22	PPBV		100
74)	1,2-DIBROMOETHANE	8.016	107	1452027	66.89	PPBV		100
75)	OCTANE	9.006	43	1982903	62.35	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.071	131	1205798	69.43	PPBV		100
78)	CHLOROBENZENE	10.058	112	2204542	66.36	PPBV		98
79)	ETHYLBENZENE	10.936	91	3650660	67.08	PPBV		100
80)	M,P-XYLENE	11.370	91	5556486	125.67	PPBV		60
81)	O-XYLENE	12.293	91	2839567	66.28	PPBV		98
82)	STYRENE	12.084	104	2245416	70.41	PPBV		99
83)	NONANE	13.421	43	2110946	63.10	PPBV		98
84)	BROMOFORM	11.174	173	1514711	75.01	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	12.315	83	2064226	67.37	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.595	75	1624746	67.69	PPBV		100
88)	ISOPROPYLBENZENE	13.807	120	1073063	65.98	PPBV		97
89)	BROMOBENZENE	13.672	77	2035109	65.06	PPBV		99
90)	2-CHLOROTOLUENE	14.800	126	993540	65.73	PPBV		100
91)	N-PROPYLBENZENE	15.141	120	1146895	66.71	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	4258764	66.89	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.865	105	3539586	66.72	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.183	118	1802748	68.96	PPBV		99
95)	TERT-BUTYLBENZENE	16.508	134	849405	65.41	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3598939	68.48	PPBV		99
97)	BENZYL CHLORIDE	16.611	91	3366305	81.19	PPBV		99
98)	M-DICHLOROBENZENE	16.585	146	2335430	64.53	PPBV		99
99)	P-DICHLOROBENZENE	16.675	146	2373563	66.58	PPBV		100
100)	O-DICHLOROBENZENE	17.000	146	2236033	66.71	PPBV		100
101)	SEC-BUTYLBENZENE	16.823	134	1046061	67.84	PPBV		98
102)	1,2,3-TRIMETHYLBENZENE	16.945	105	3529094	66.96	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.019	134	1145439	66.86	PPBV		100
104)	N-BUTYLBENZENE	17.389	134	1159070	71.38	PPBV		97
105)	HEXACHLOROETHANE	17.566	117	1491790	74.98	PPBV		98
106)	HEXACHLOROBUTADIENE	18.640	225	1851997	78.27	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2599589	93.58	PPBV		99
108)	NAPHTHALENE	18.376	128	6111699	98.65	PPBV		98
110)	TVHC as equiv Pentane	2.238	TIC	3312203	53.84	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

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

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

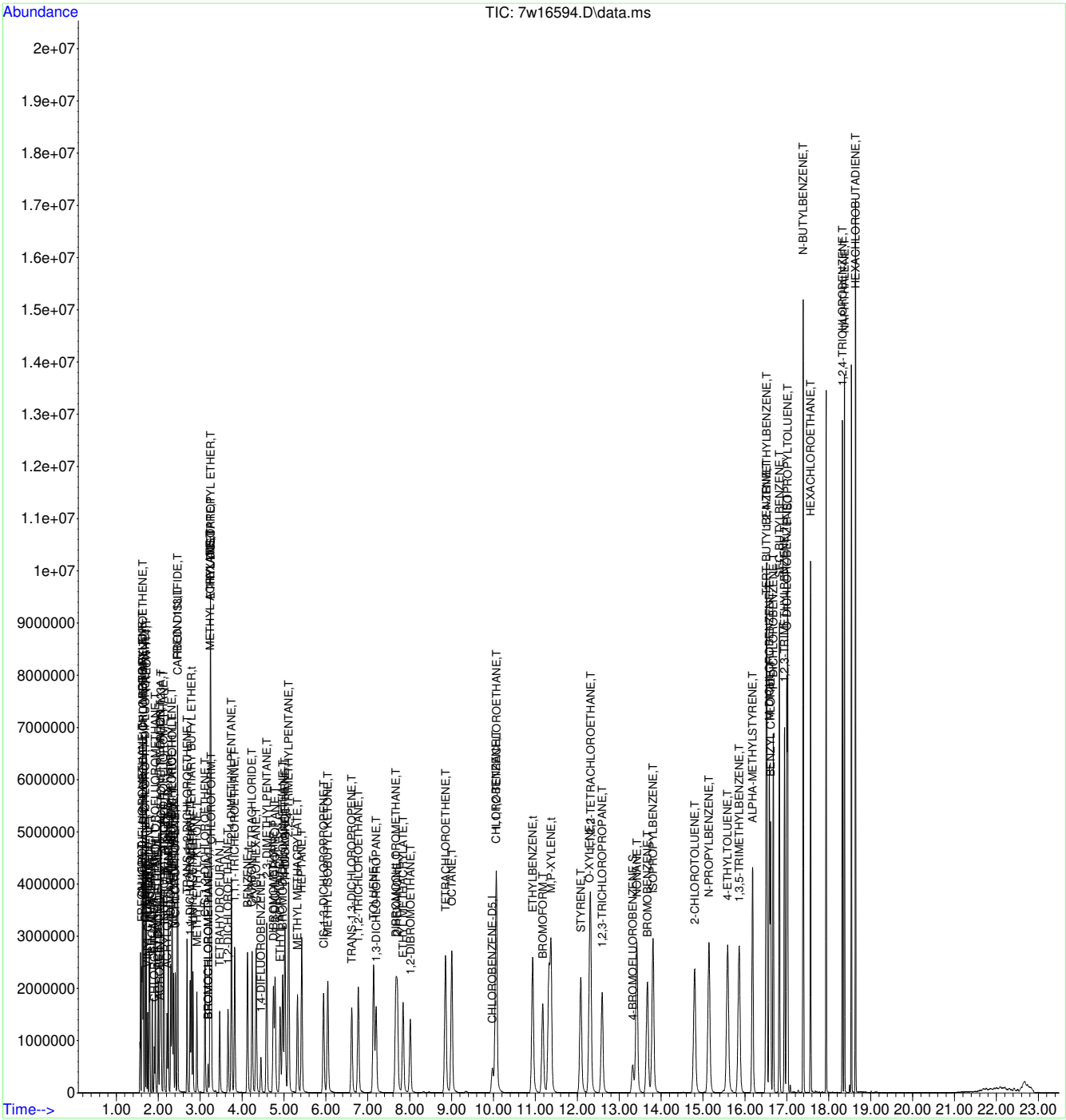
7.7.22

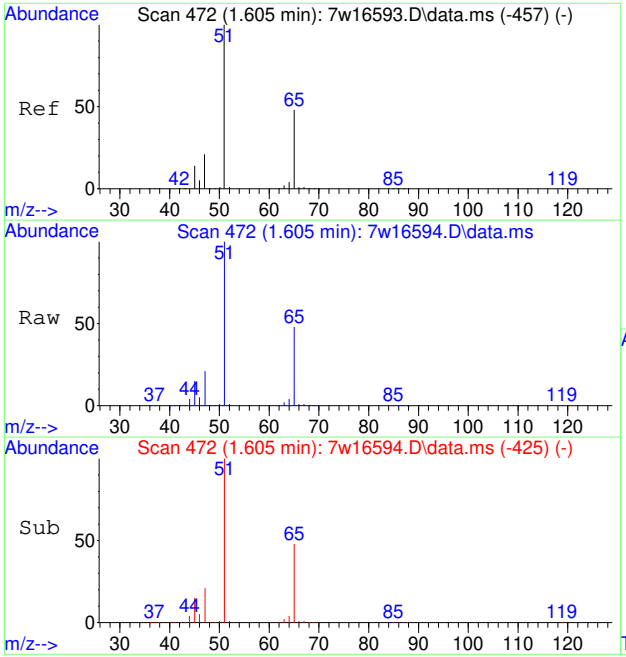
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

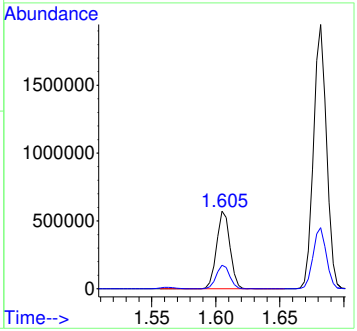


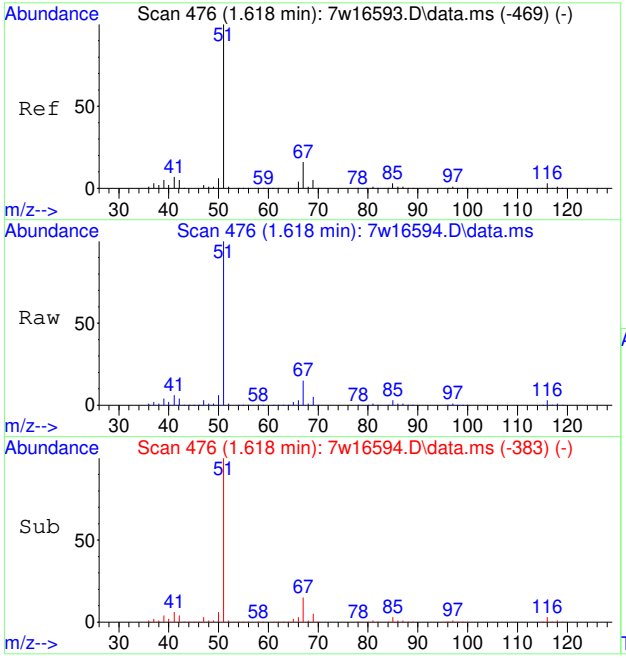


#3
FREON 152A
Concen: 62.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 416591

Ion	Ratio	Lower	Upper
65	100		
45	30.5	23.0	42.8

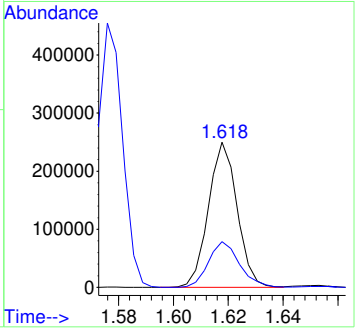


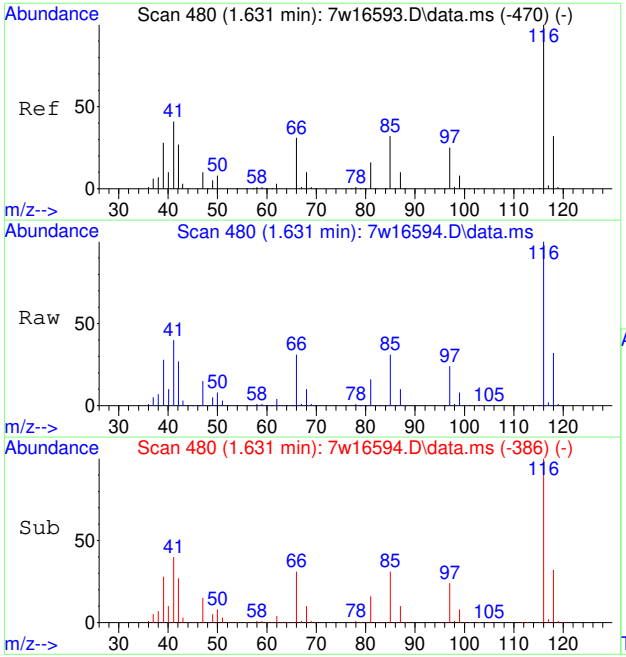


#4
CHLORODIFLUOROMETHANE
Concen: 62.53 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 181942

Ion	Ratio	Lower	Upper
67	100		
69	34.8	25.3	47.1

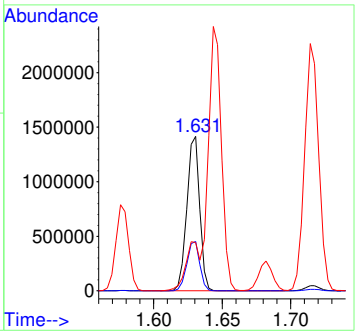


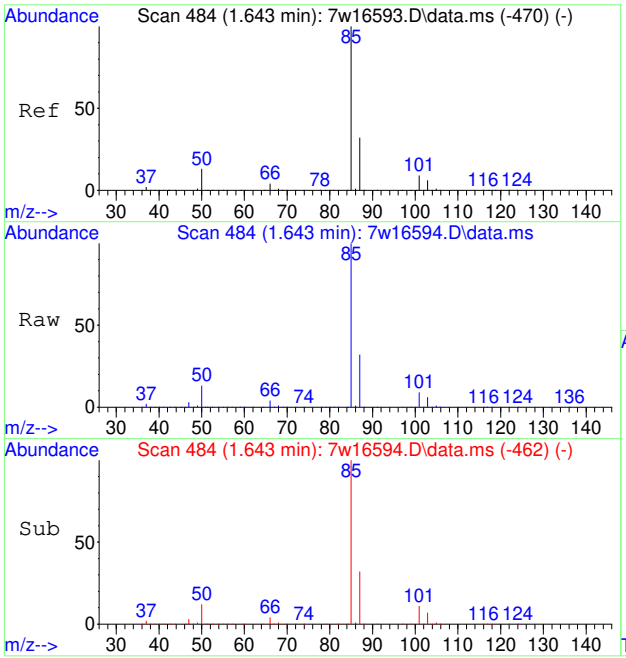


#5
CHLOROTRIFLUOROETHENE
Concen: 65.92 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:116 Resp: 917974

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	207.3	152.4	283.0

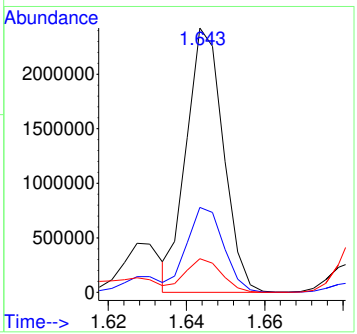


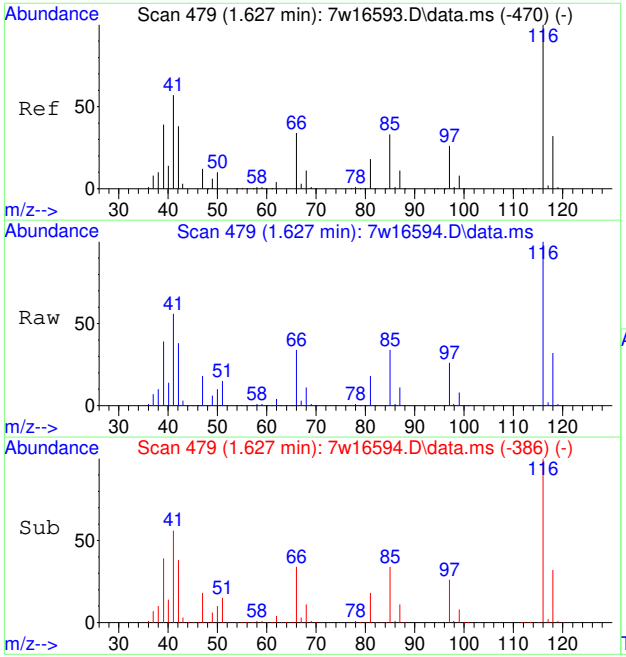


#6
DICHLORODIFLUOROMETHANE
Concen: 52.05 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1586079

Ion	Ratio	Lower	Upper
85	100		
87	38.8	23.0	42.6
50	22.3	13.5	25.1

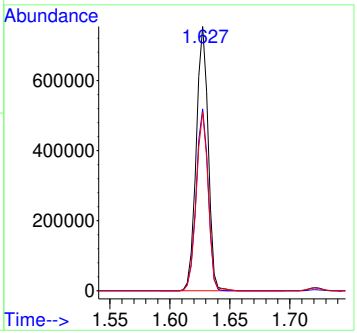


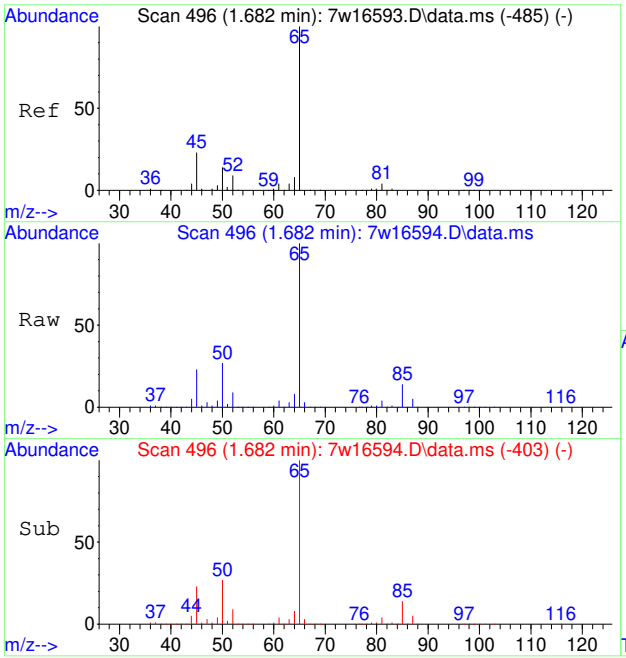


#7
PROPYLENE
Concen: 59.64 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 519681

Ion	Ratio	Lower	Upper
41	100		
39	69.0	50.5	93.7
42	67.4	47.0	87.4

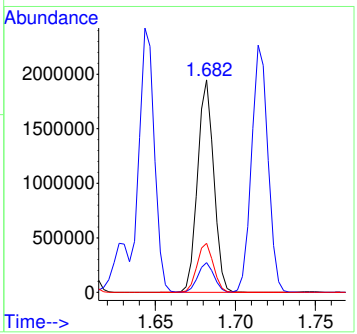


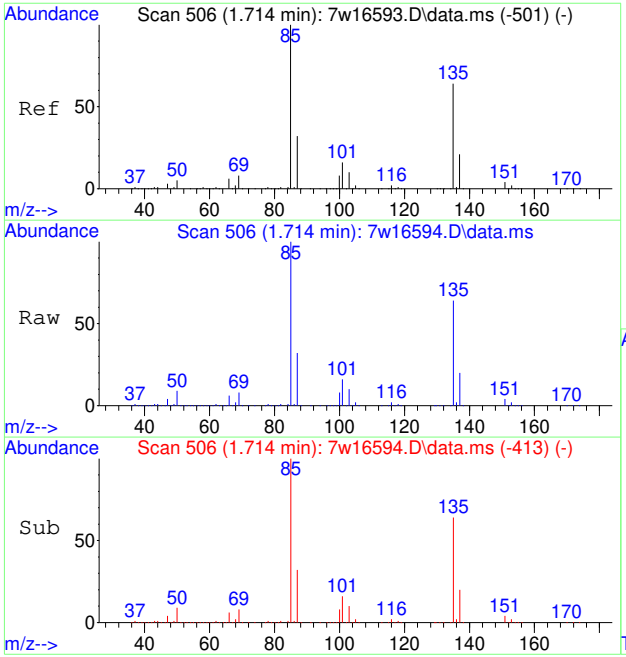


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 59.89 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 1374618

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

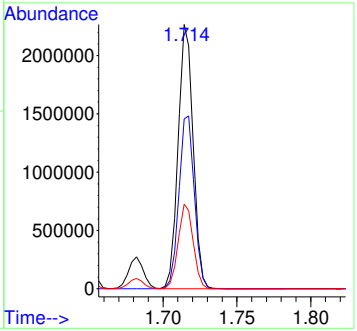


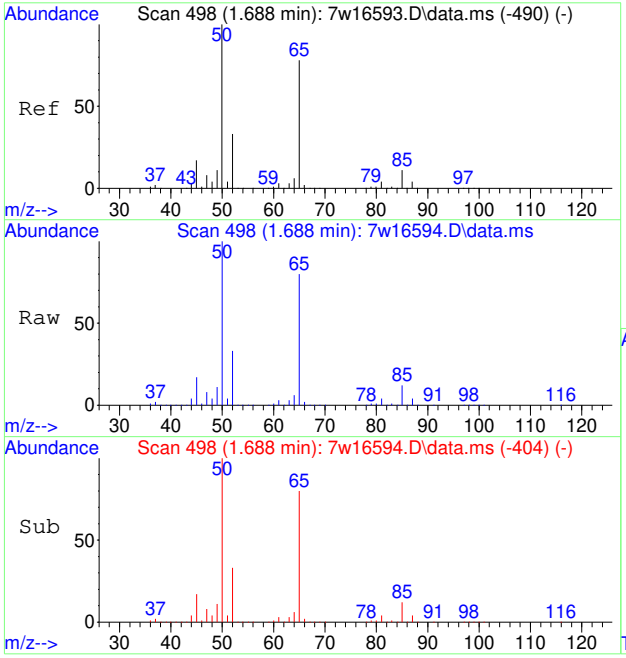


#9
FREON 114
Concen: 61.25 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1619416

Ion	Ratio	Lower	Upper
85	100		
135	67.3	46.1	85.7
87	32.1	22.6	42.0

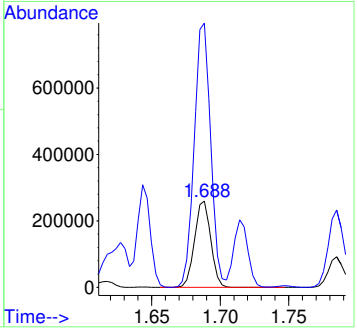


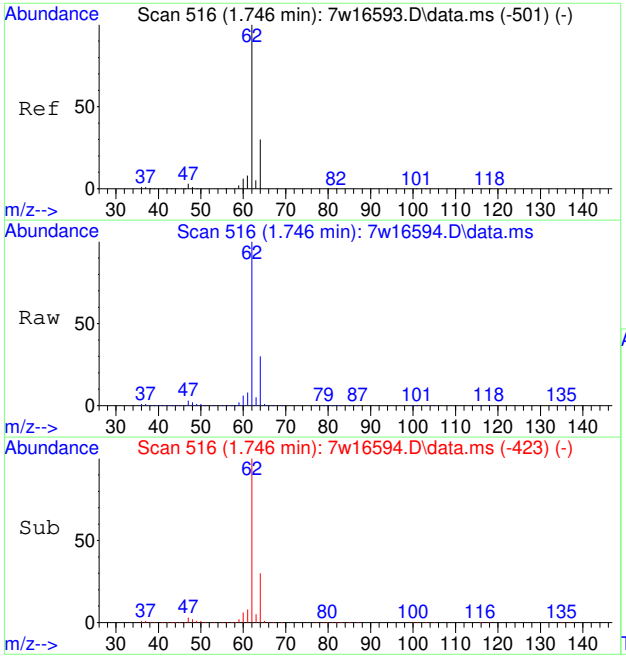


#10
CHLOROMETHANE
Concen: 57.28 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 212421

Ion	Ratio	Lower	Upper
52	100		
50	318.6	225.6	419.0

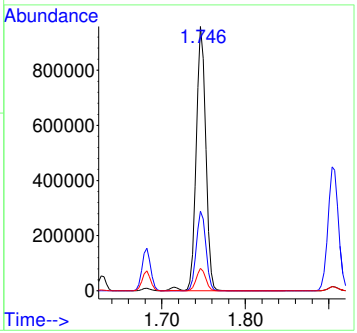


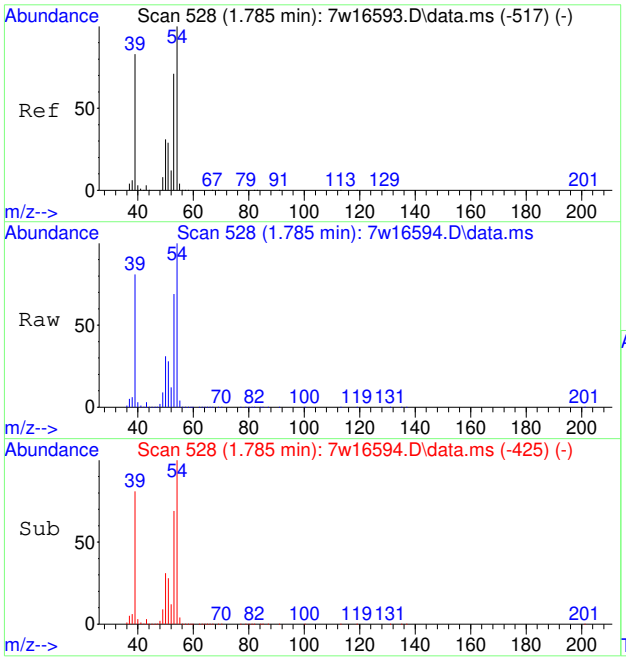


#11
VINYL CHLORIDE
Concen: 58.43 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 763152

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.5	5.7	10.5

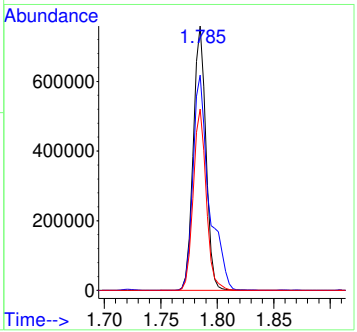


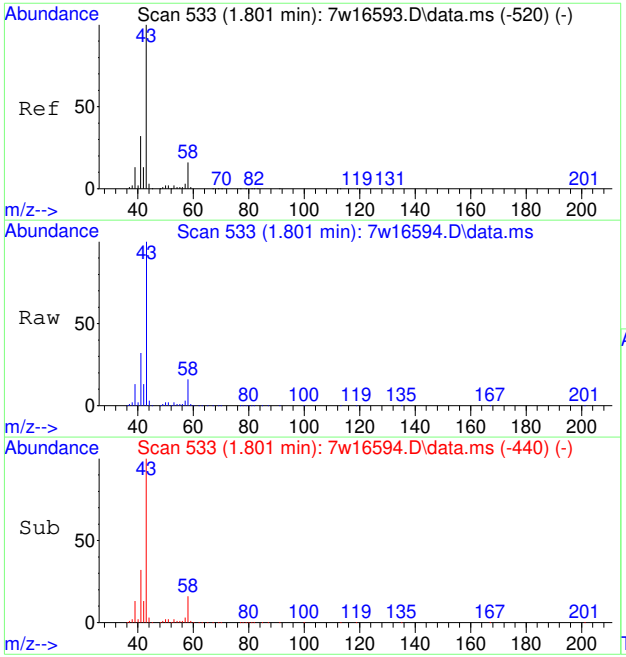


#12
1,3-BUTADIENE
Concen: 56.79 PPBV
RT: 1.785 min Scan# 528
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 54 Resp: 588014

Ion	Ratio	Lower	Upper
54	100		
39	103.8	78.4	138.4
53	70.6	40.9	100.9

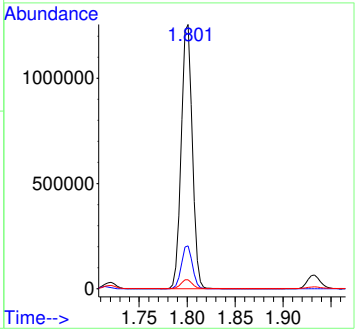


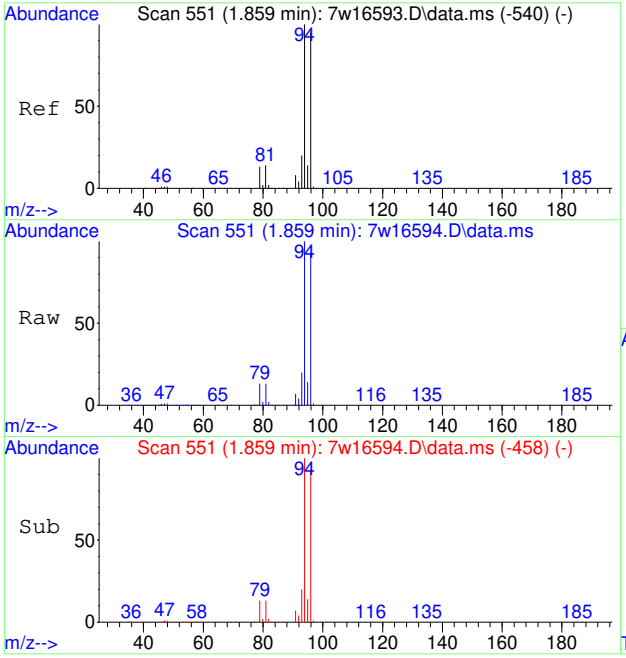


#13
N-BUTANE
Concen: 57.39 PPBV
RT: 1.801 min Scan# 533
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1009195

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.5	2.6	4.8

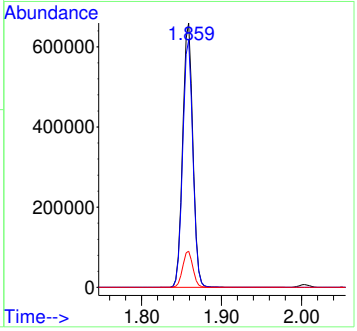


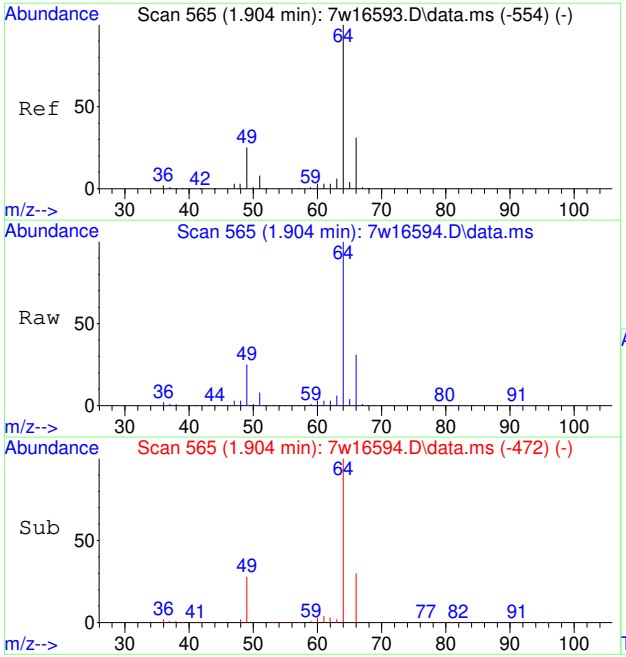


#14
BROMOMETHANE
Concen: 57.25 PPBV
RT: 1.859 min Scan# 551
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 94 Resp: 580953

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.8	9.9	18.3

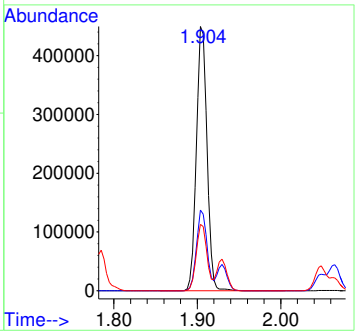


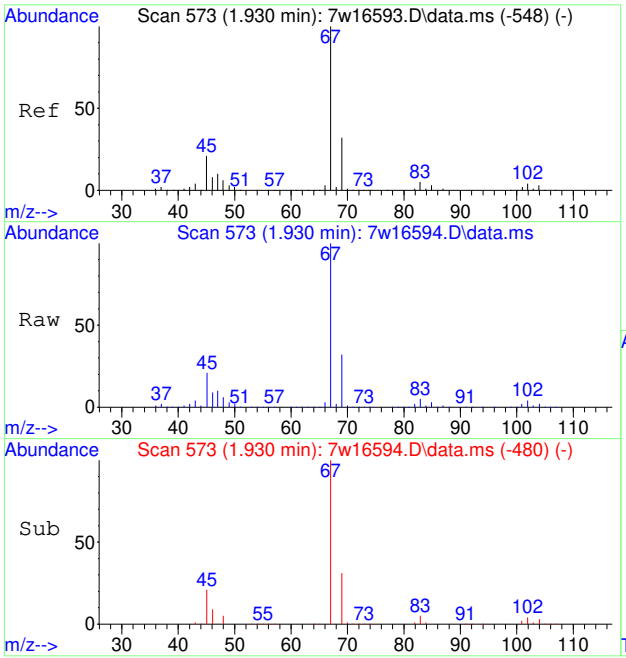


#15
CHLOROETHANE
Concen: 55.81 PPBV
RT: 1.904 min Scan# 565
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 64 Resp: 396609

Ion	Ratio	Lower	Upper
64	100		
66	40.0	21.5	39.9#
49	26.0	19.0	35.4

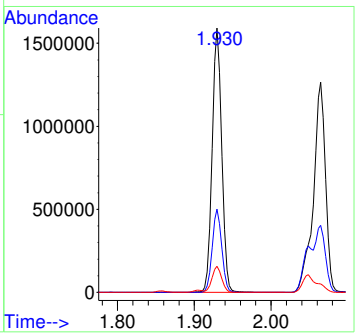


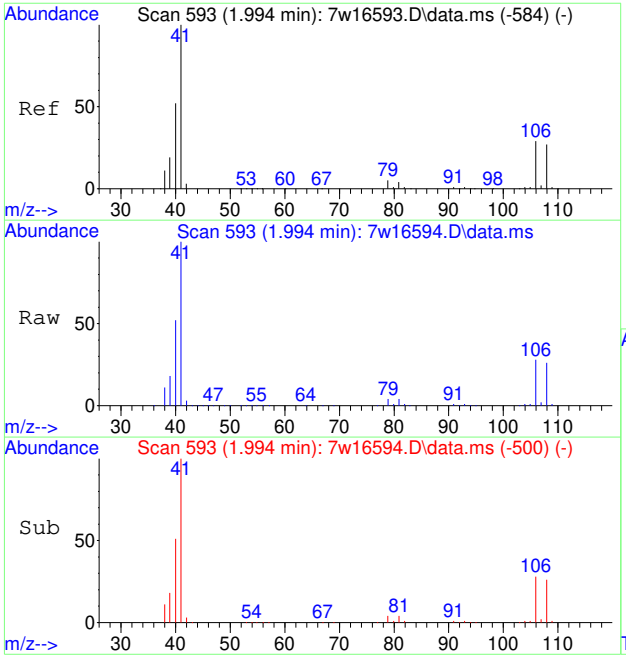


#16
DICHLOROFLUOROMETHANE
Concen: 56.11 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 1380281

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

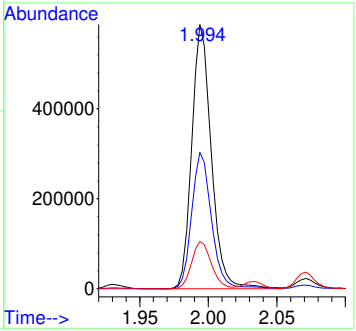


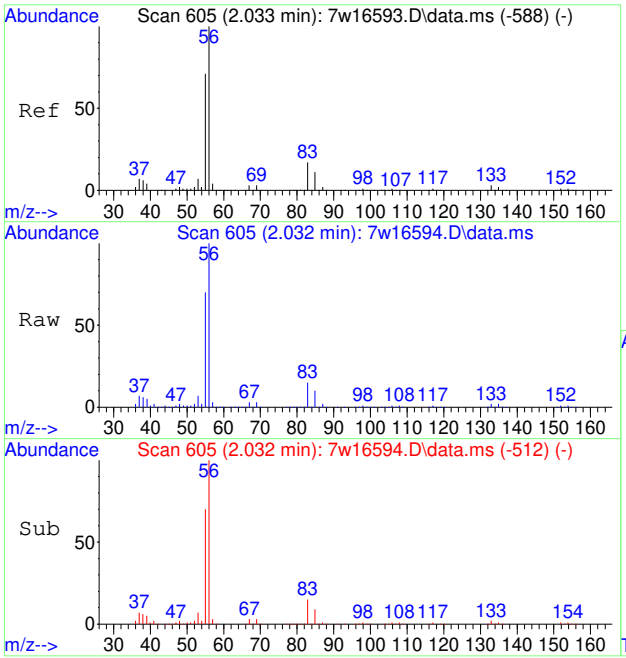


#17
ACETONITRILE
Concen: 47.00 PPBV
RT: 1.994 min Scan# 593
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 581922

Ion	Ratio	Lower	Upper
41	100		
40	52.3	36.7	68.1
39	18.0	13.1	24.3

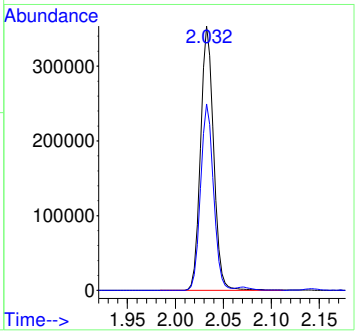


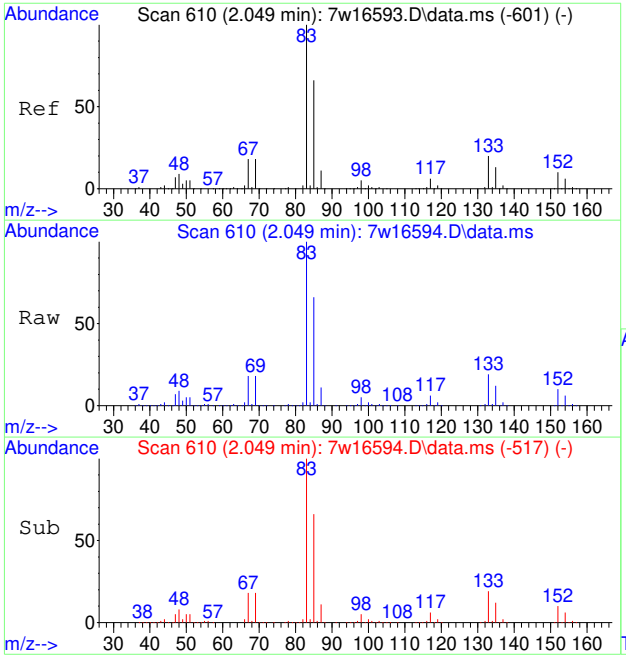


#18
ACROLEIN
Concen: 57.43 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 56 Resp: 334897

Ion	Ratio	Lower	Upper
56	100		
55	69.9	48.9	90.7

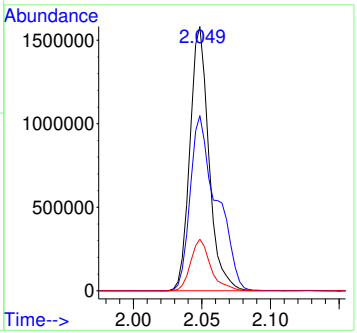


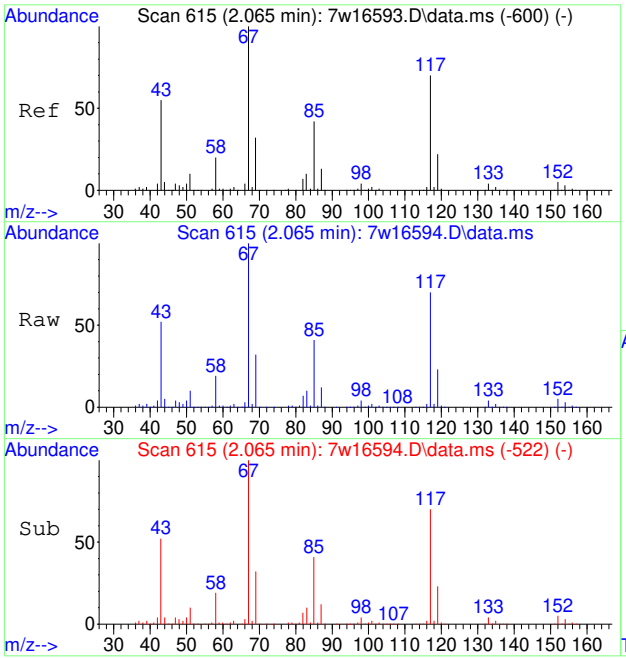


#19
FREON 123
Concen: 61.54 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1521669

Ion	Ratio	Lower	Upper
83	100		
85	92.7	64.9	120.5
133	20.6	14.7	27.3

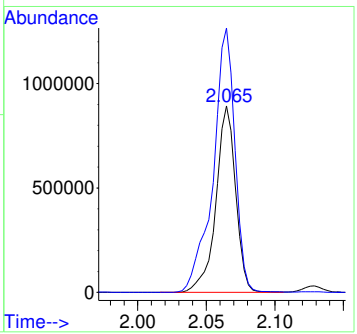


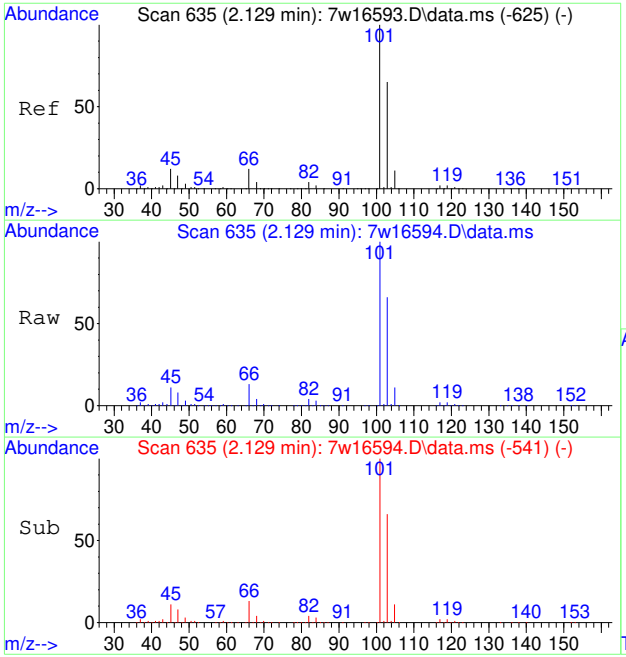


#20
FREON 123A
Concen: 60.73 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 890775

Ion	Ratio	Lower	Upper
117	100		
67	157.1	111.3	206.7

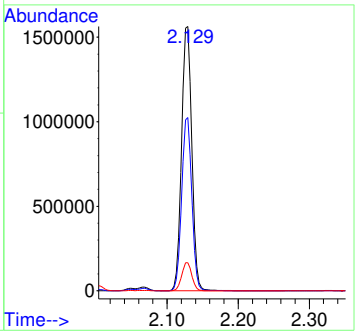


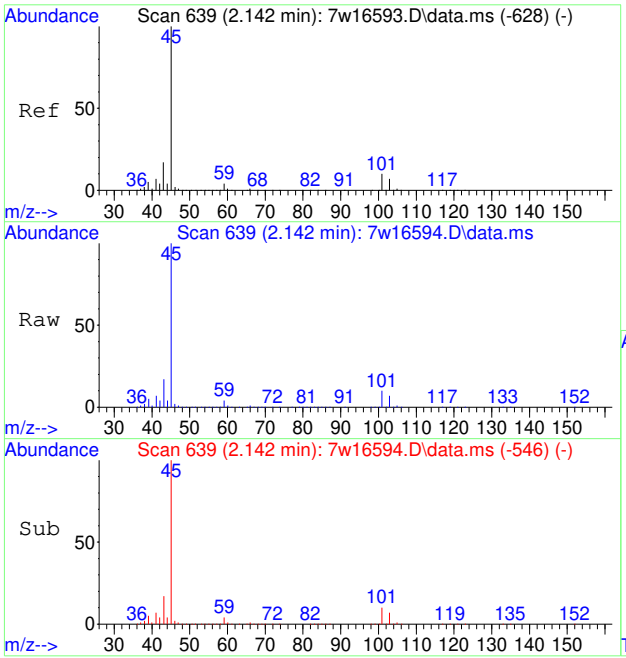


#21
TRICHLOROFLUOROMETHANE
Concen: 55.76 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:101 Resp: 1563139

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.6	7.3	13.5

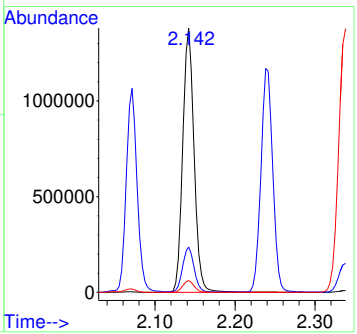


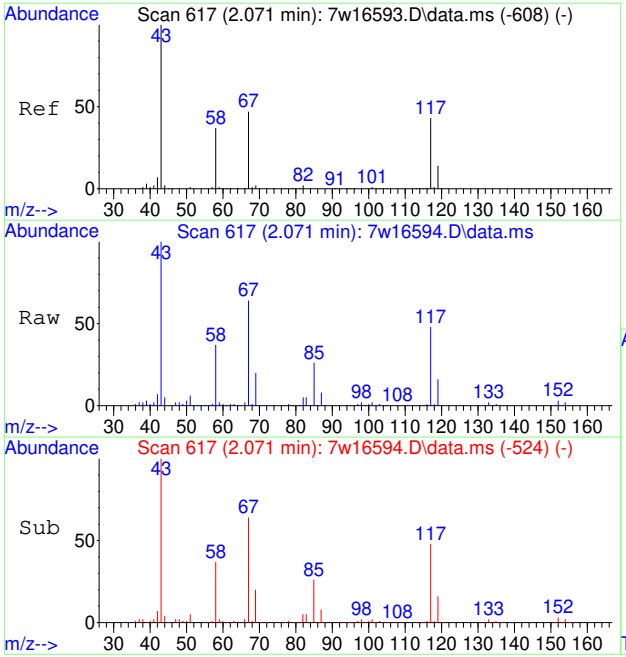


#22
ISOPROPYL ALCOHOL
Concen: 57.05 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 1360413

Ion	Ratio	Lower	Upper
45	100		
43	17.4	12.5	23.3
59	4.5	3.1	5.7

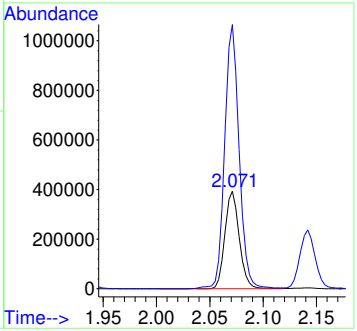


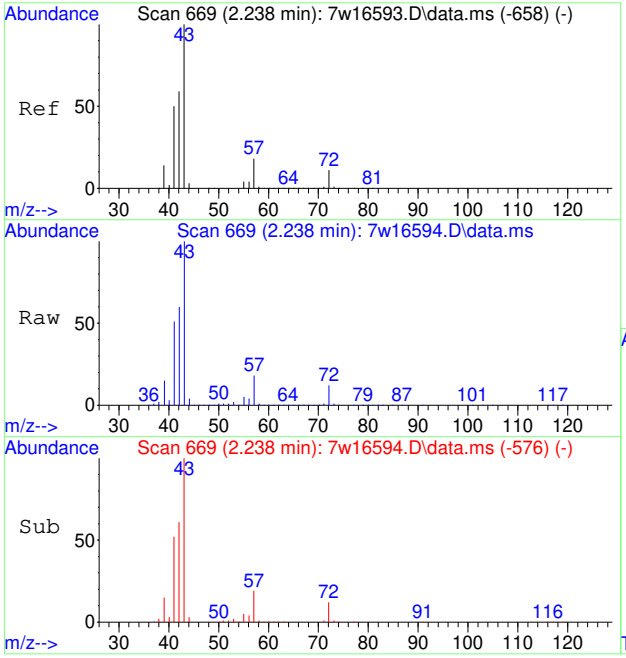


#23
ACETONE
Concen: 56.95 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 370968

Ion	Ratio	Lower	Upper
58	100		
43	271.3	198.6	368.8

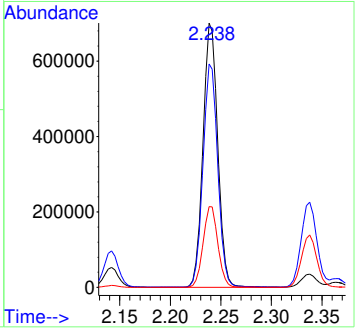


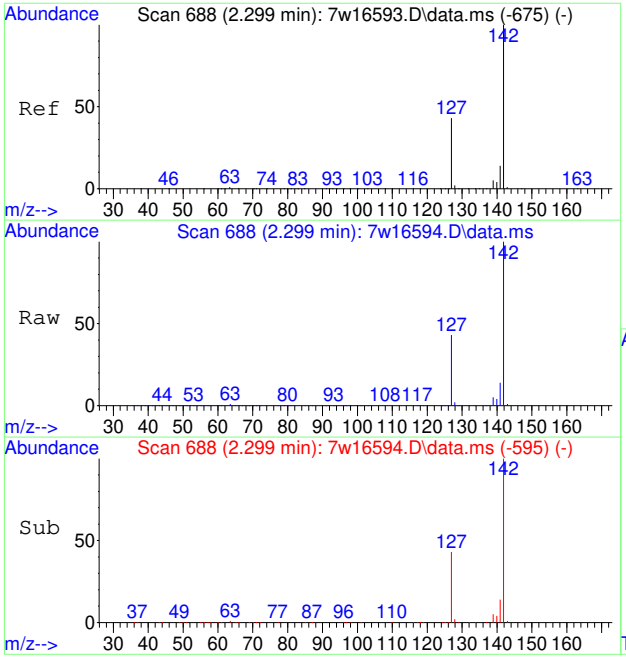


#24
PENTANE
Concen: 54.82 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 42 Resp: 709359

Ion	Ratio	Lower	Upper
42	100		
41	84.8	59.8	111.0
57	30.8	21.1	39.1

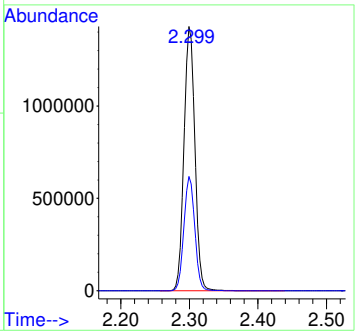


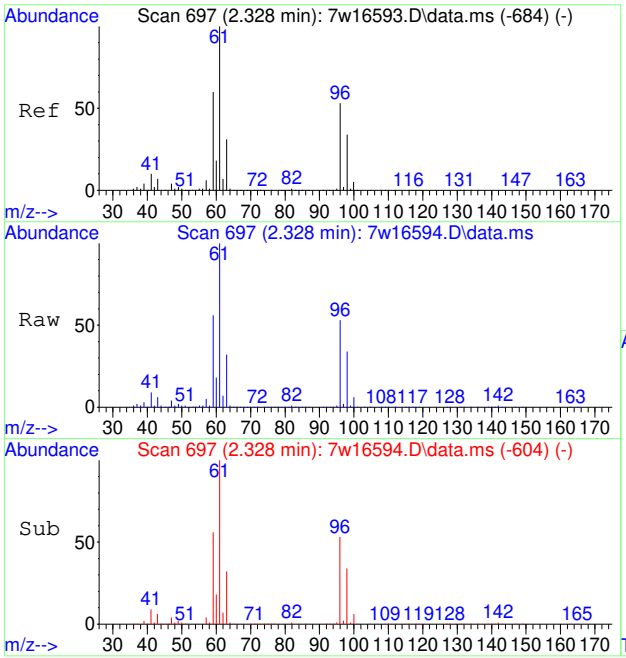


#25
IODOMETHANE
Concen: 61.48 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:142 Resp: 1579517

Ion	Ratio	Lower	Upper
142	100		
127	43.0	30.6	56.8

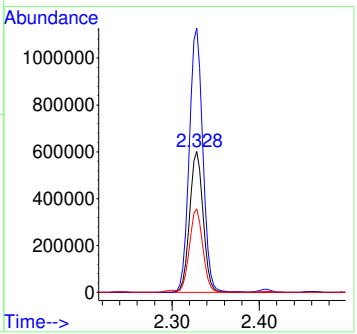


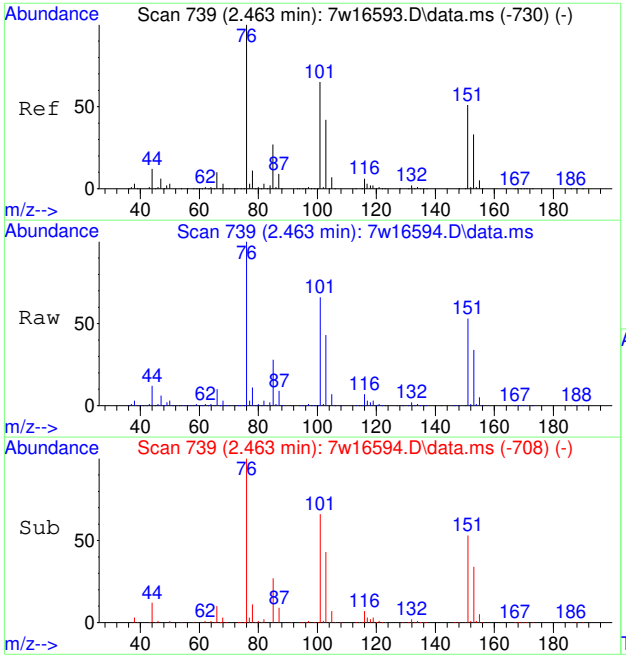


#26
1,1-DICHLOROETHYLENE
Concen: 60.57 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 645693

Ion	Ratio	Lower	Upper
96	100		
61	188.2	138.3	256.8
63	60.1	44.2	82.0

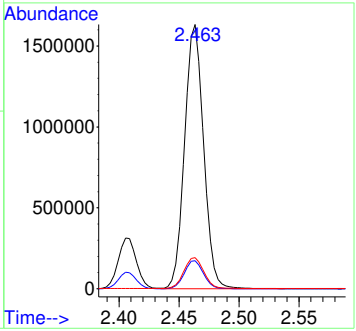


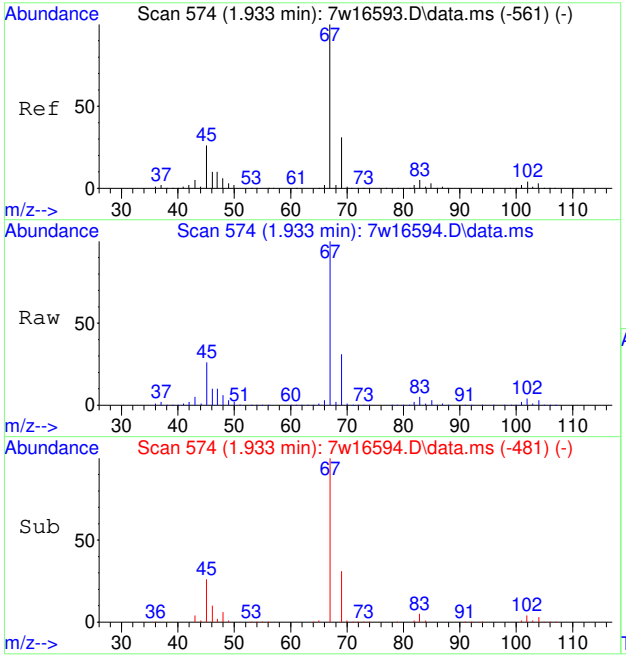


#27
CARBON DISULFIDE
Concen: 59.49 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1800975

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.2	10.2	19.0

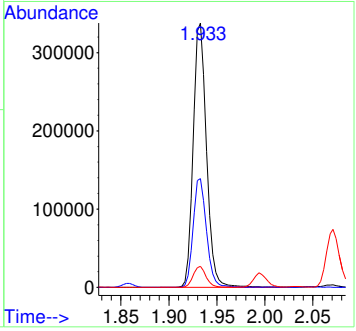


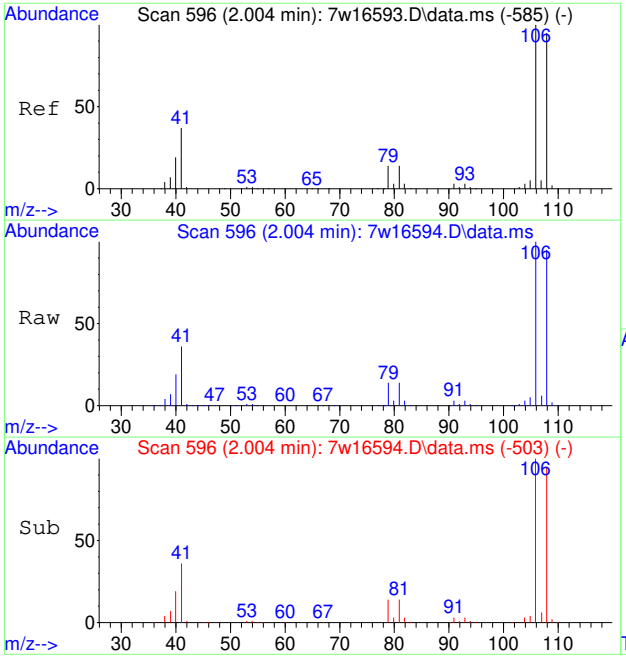


#28
ETHANOL
Concen: 51.26 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 326453

Ion	Ratio	Lower	Upper
45	100		
46	41.2	29.0	53.9
42	7.7	5.7	10.5

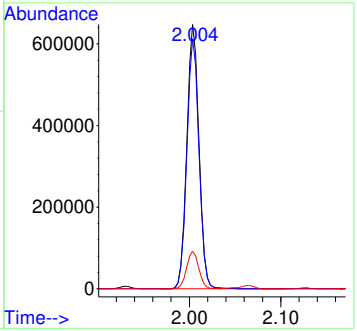


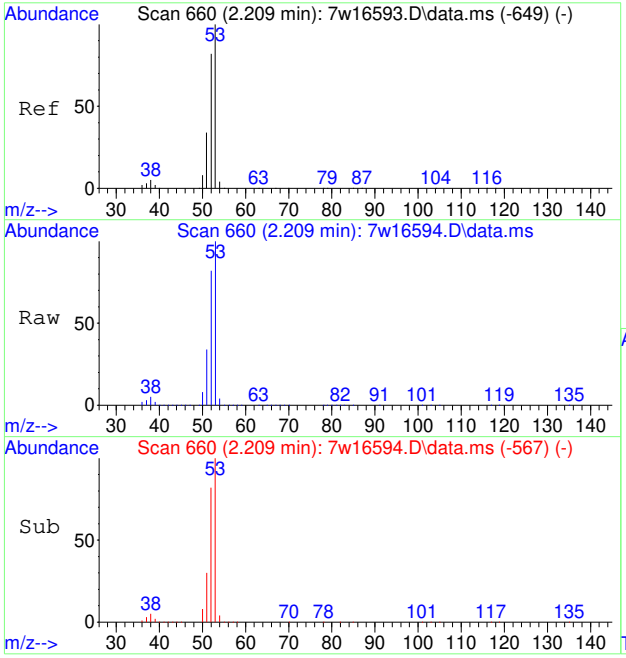


#29
BROMOETHENE
Concen: 58.65 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:106 Resp: 595538

Ion	Ratio	Lower	Upper
106	100		
108	94.5	66.1	122.7
81	14.2	10.6	19.8

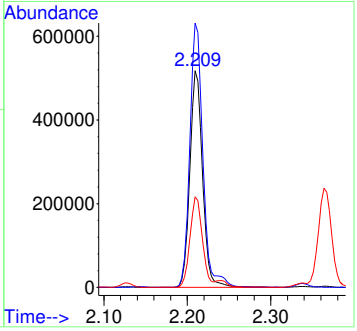


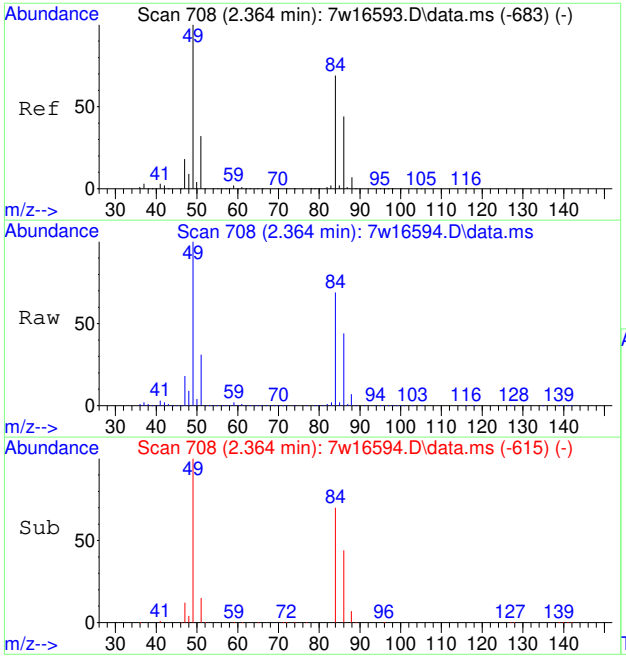


#30
ACRYLONITRILE
Concen: 60.13 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 549118

Ion	Ratio	Lower	Upper
52	100		
53	125.6	88.2	163.8
51	44.2	31.3	58.1

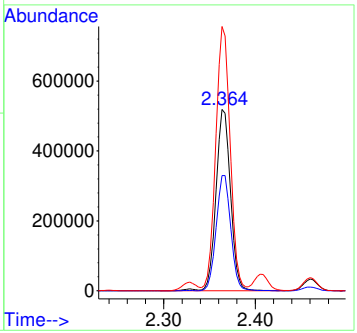


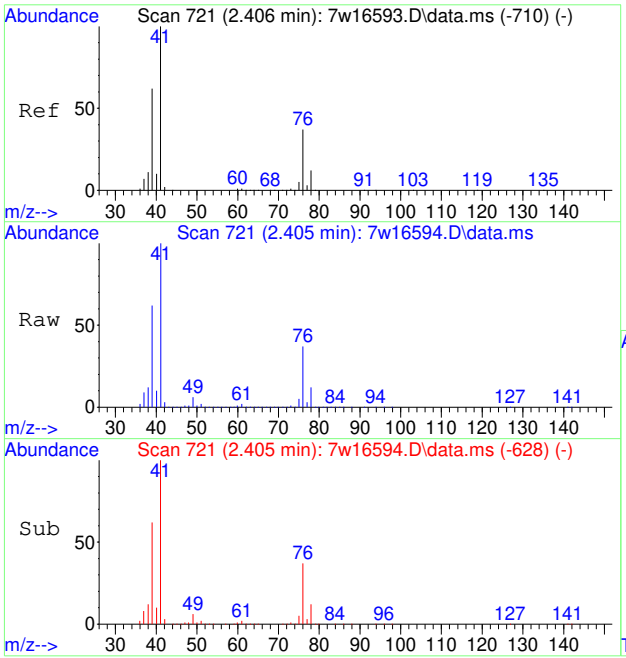


#31
METHYLENE CHLORIDE
Concen: 54.71 PPBV
RT: 2.364 min Scan# 708
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 575223

Ion	Ratio	Lower	Upper
84	100		
86	63.8	44.3	82.3
49	144.7	109.5	203.3

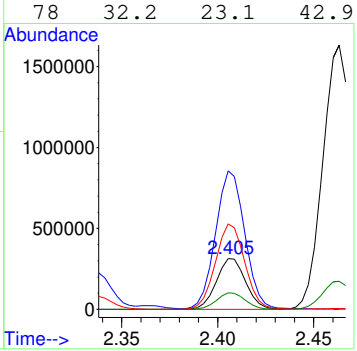


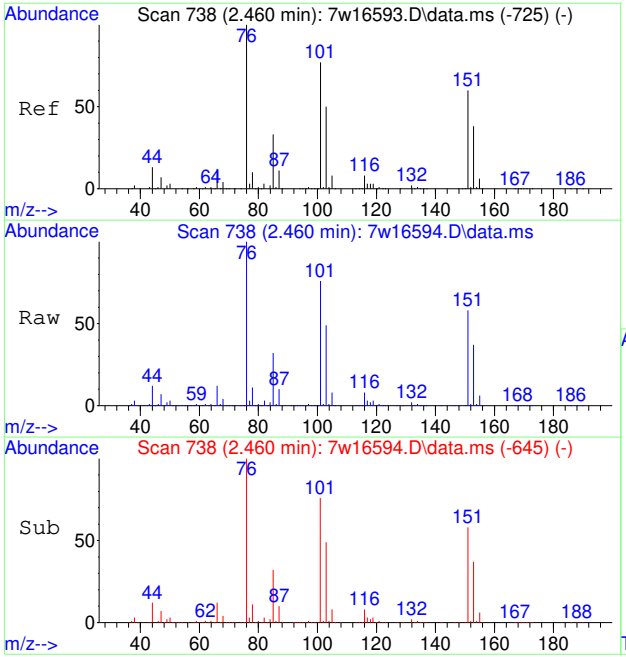


#32
3-CHLOROPROPENE
Concen: 58.47 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 332976

Ion	Ratio	Lower	Upper
76	100		
41	273.7	202.6	376.2
39	168.8	125.8	233.6
78	32.2	23.1	42.9

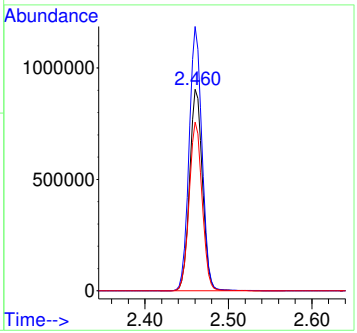


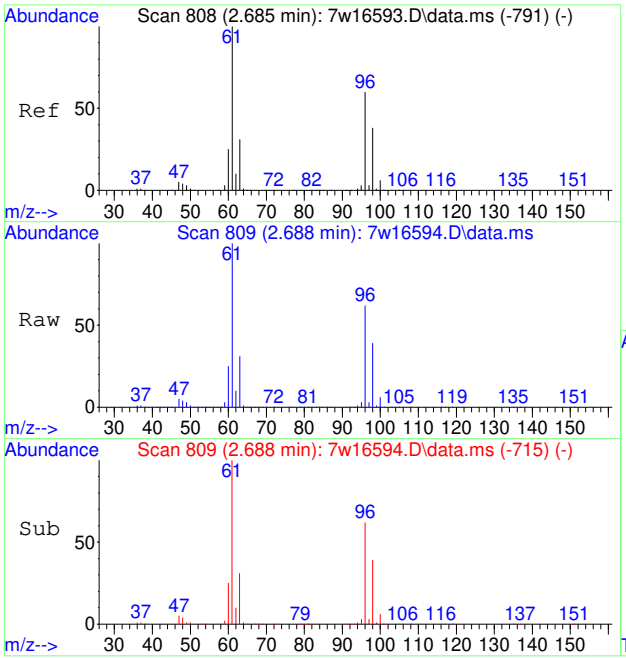


#33
FREON 113
Concen: 60.76 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:151 Resp: 974461

Ion	Ratio	Lower	Upper
151	100		
101	130.5	93.1	172.9
103	84.0	60.1	111.5

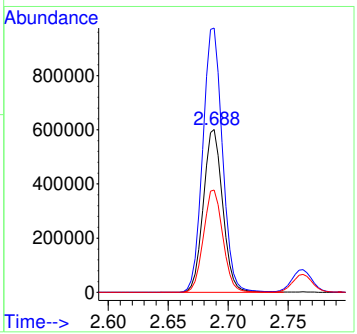


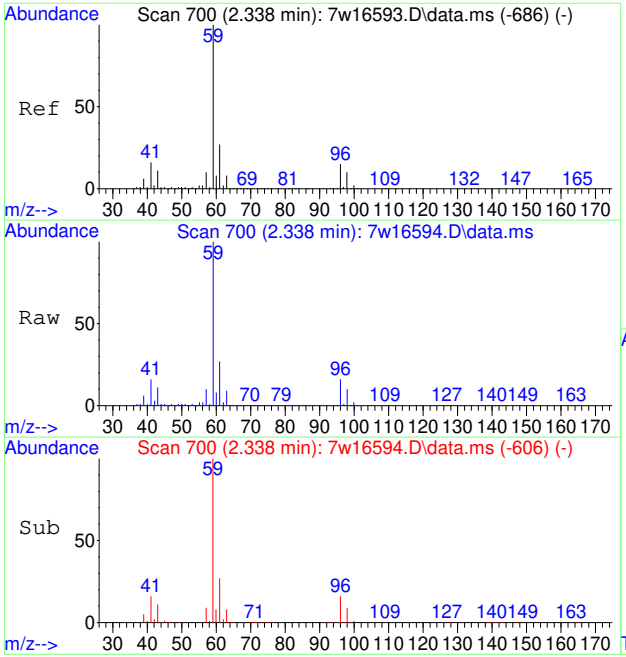


#34
TRANS-1,2-DICHLOROETHENE
Concen: 57.48 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 674414

Ion	Ratio	Lower	Upper
96	100		
61	164.4	119.6	222.0
98	63.1	44.9	83.5

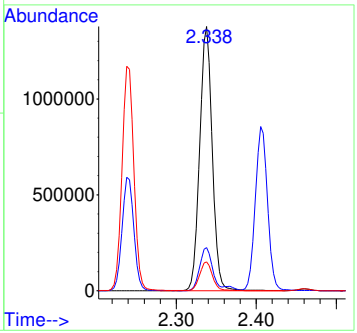


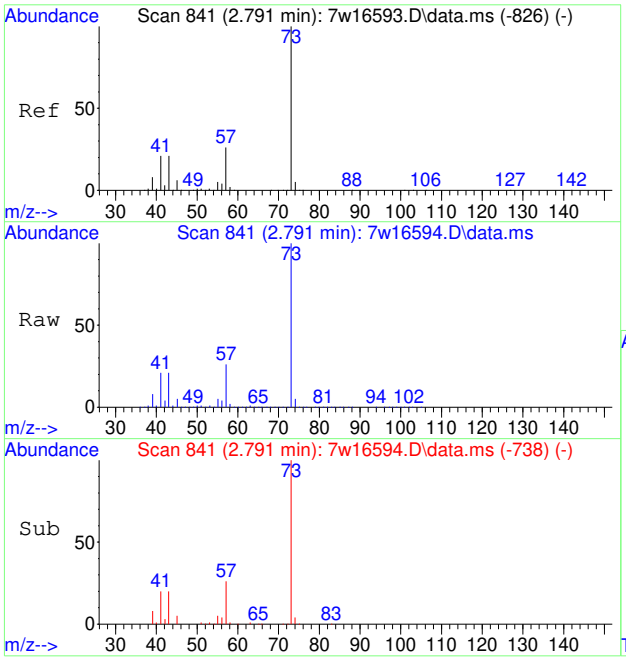


#35
TERTIARY BUTYL ALCOHOL
Concen: 50.59 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 1507671

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.0	8.0	14.8

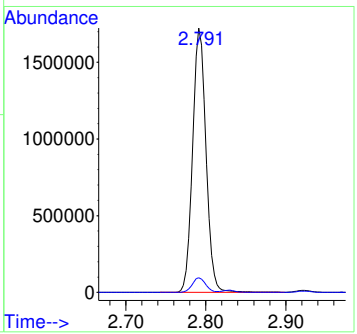


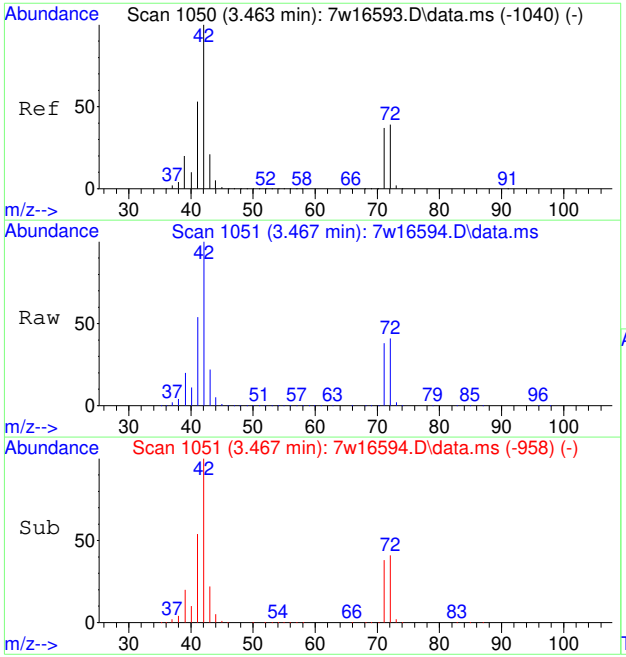


#36
METHYL TERTIARY BUTYL ETHER
Concen: 60.14 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 73 Resp: 2004125

Ion	Ratio	Lower	Upper
73	100		
45	5.5	4.1	7.5

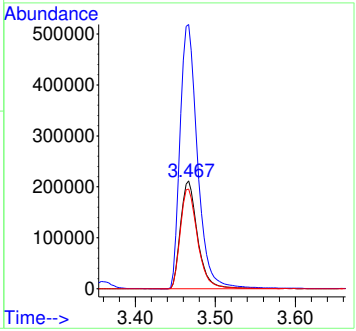


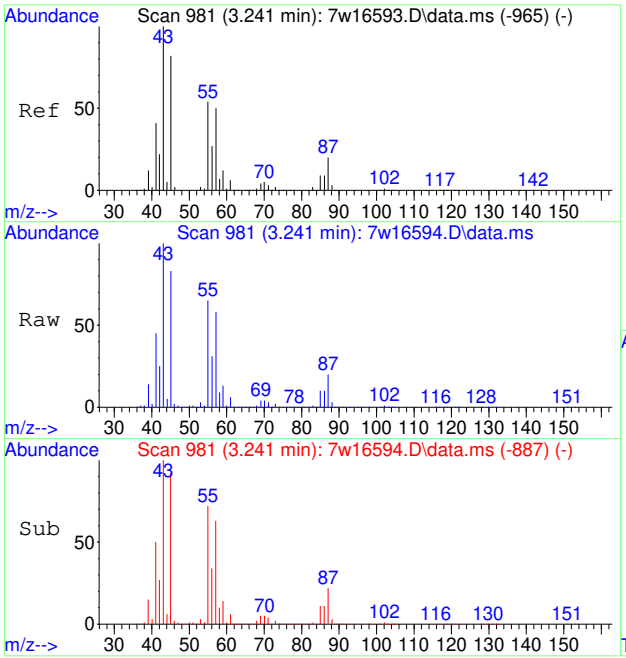


#37
TETRAHYDROFURAN
Concen: 58.71 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 315623

Ion	Ratio	Lower	Upper
72	100		
42	250.8	180.3	334.8
71	94.1	65.8	122.2

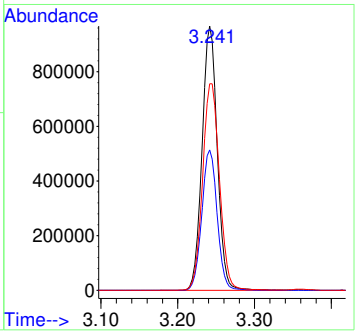


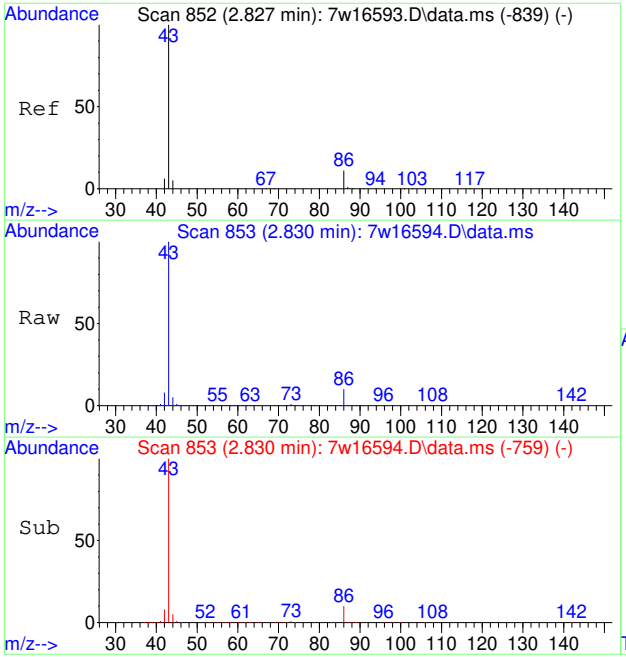


#38
HEXANE
Concen: 59.12 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1329253

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	86.9	65.9	122.5

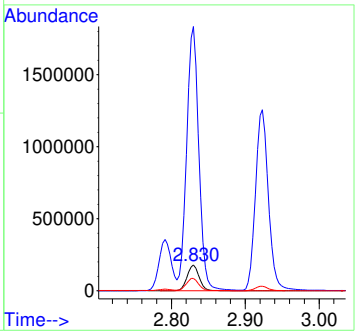


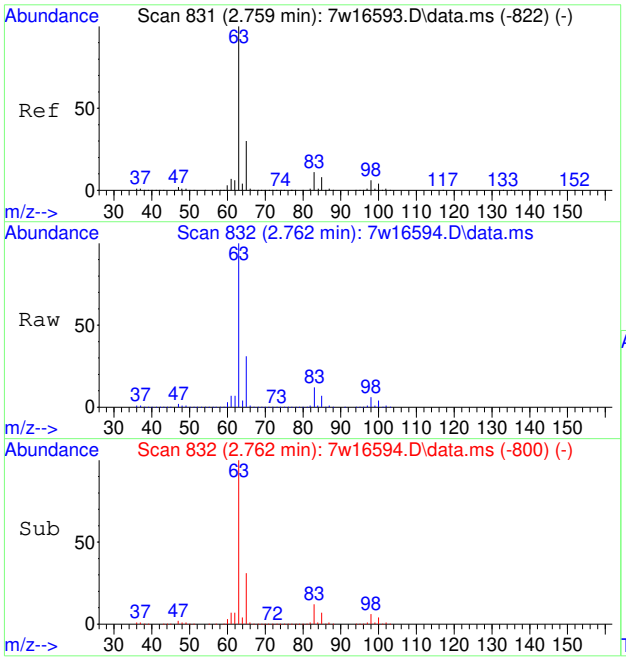


#39
VINYL ACETATE
Concen: 64.15 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 86 Resp: 203564

Ion	Ratio	Lower	Upper
86	100		
43	1037.6	758.7	1408.9
44	49.0	39.5	73.3

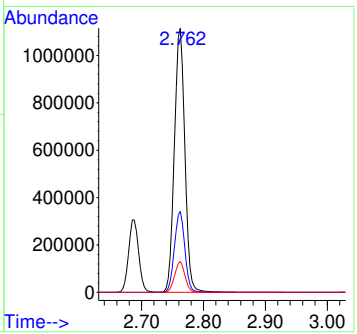


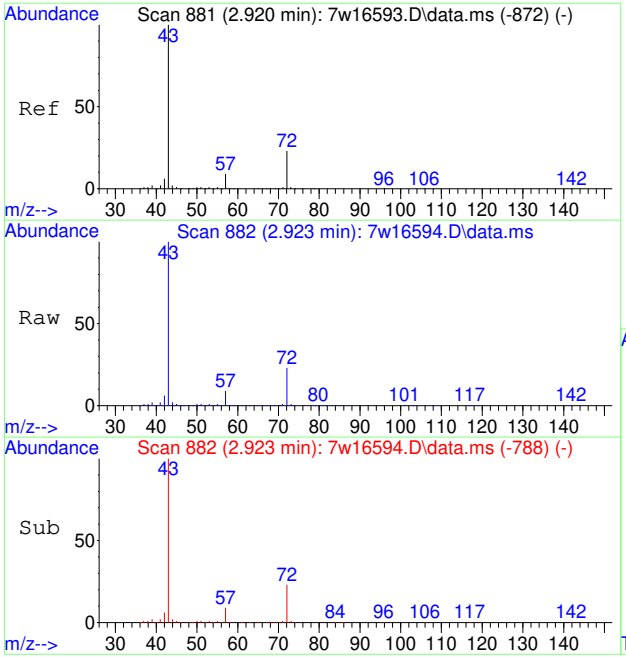


#40
1,1-DICHLOROETHANE
Concen: 57.90 PPBV
RT: 2.762 min Scan# 832
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 1312399

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.4	39.8
83	11.6	8.3	15.5

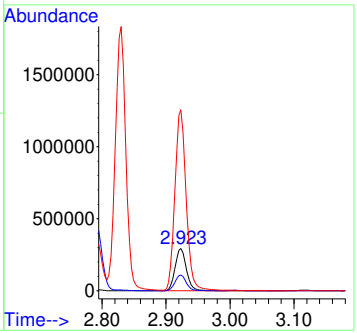


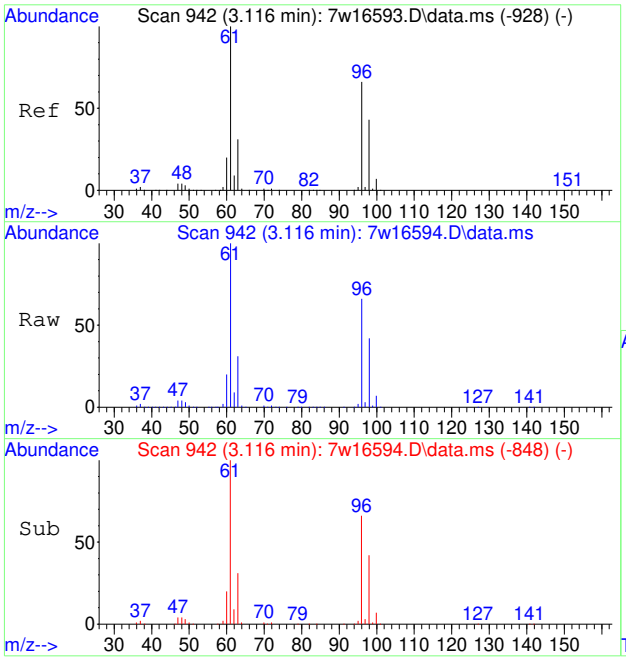


#41
METHYL ETHYL KETONE
Concen: 58.79 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 360548

Ion	Ratio	Lower	Upper
72	100		
57	37.4	26.9	49.9
43	429.0	309.4	574.6

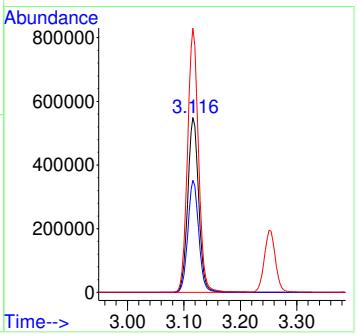


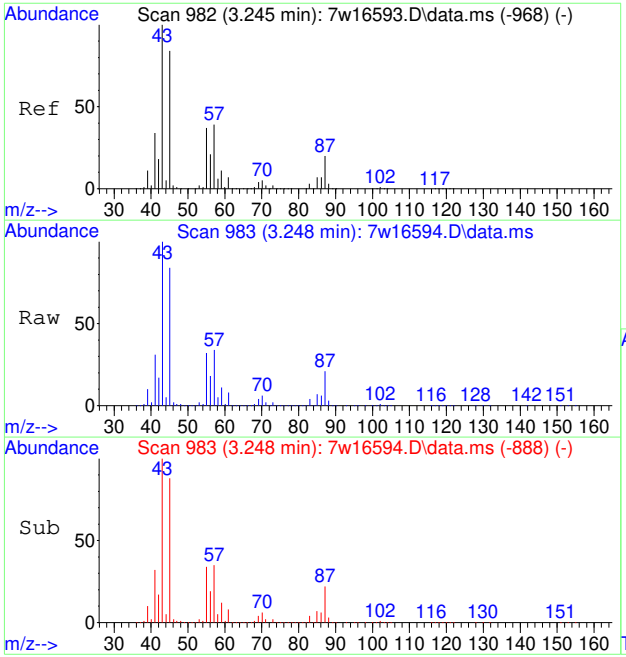


#42
CIS-1,2-DICHLOROETHENE
Concen: 60.78 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 737182

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	150.4	107.3	199.3

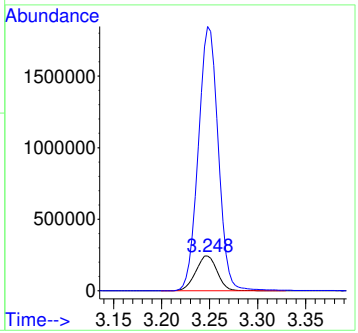


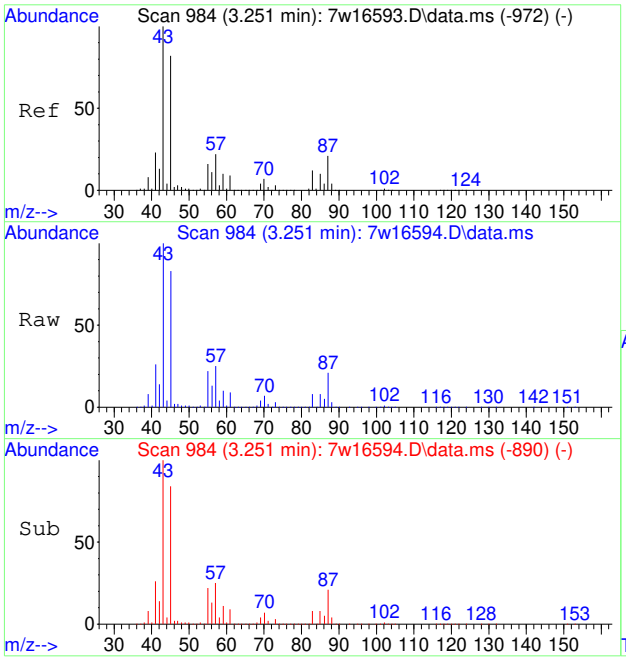


#43
DIISOPROPYL ETHER
Concen: 59.86 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 381162

Ion	Ratio	Lower	Upper
59	100		
45	704.4	517.6	961.2

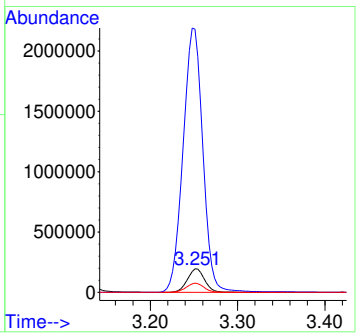


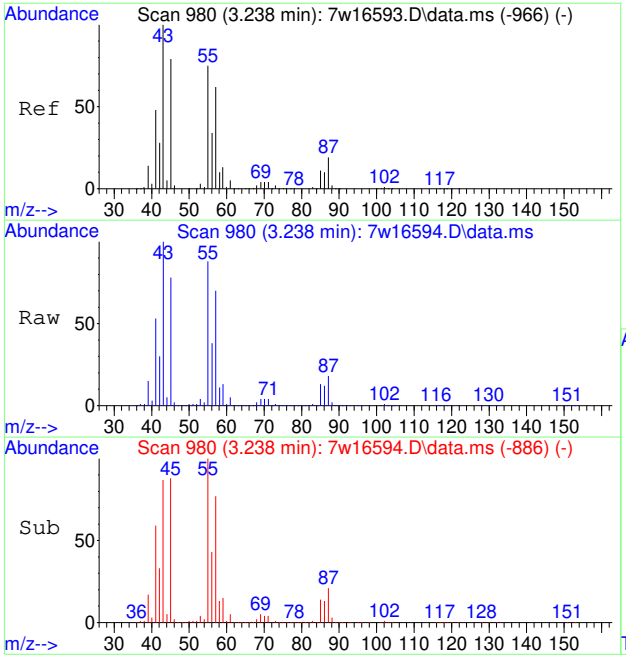


#44
ETHYL ACETATE
Concen: 63.06 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 61 Resp: 270078

Ion	Ratio	Lower	Upper
61	100		
43	1278.6	955.4	1774.4
88	40.5	27.6	51.2

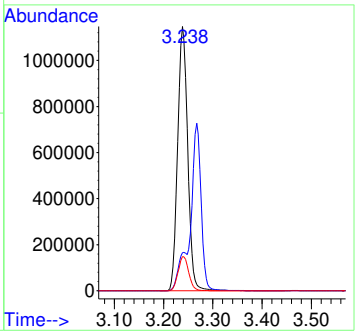


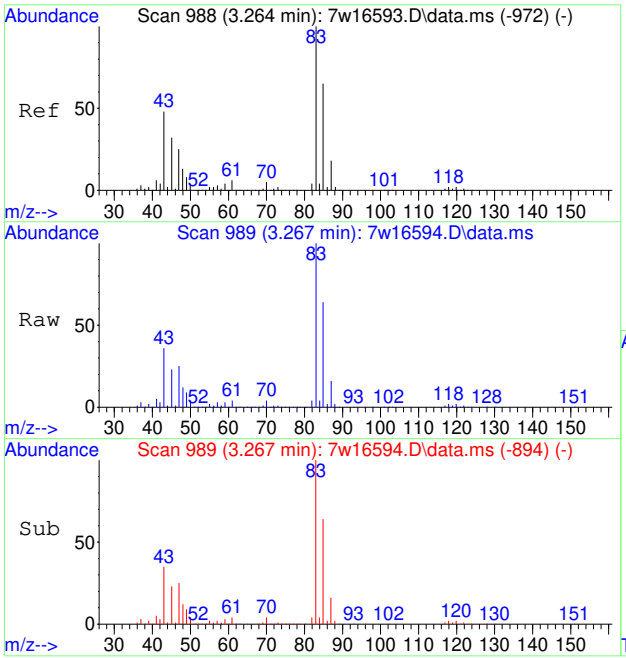


#45
METHYL ACRYLATE
Concen: 60.36 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 1639035

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

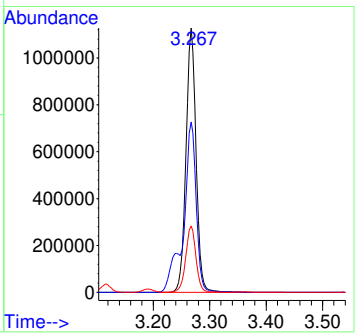


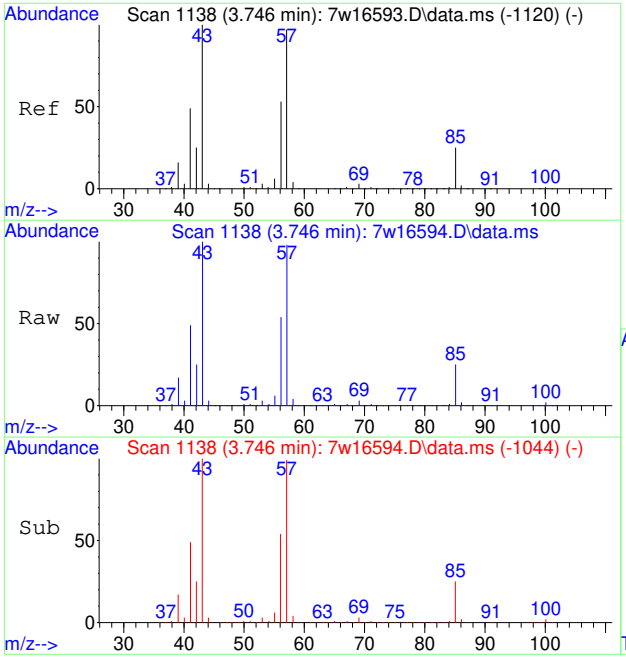


#46
CHLOROFORM
Concen: 59.52 PPBV
RT: 3.267 min Scan# 989
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1396609

Ion	Ratio	Lower	Upper
83	100		
85	81.5	56.0	104.0
47	25.8	19.0	35.4

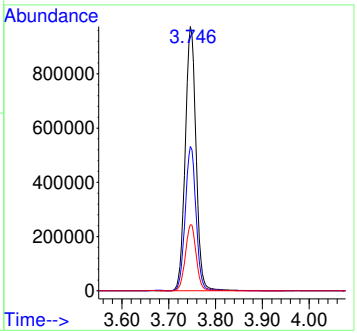


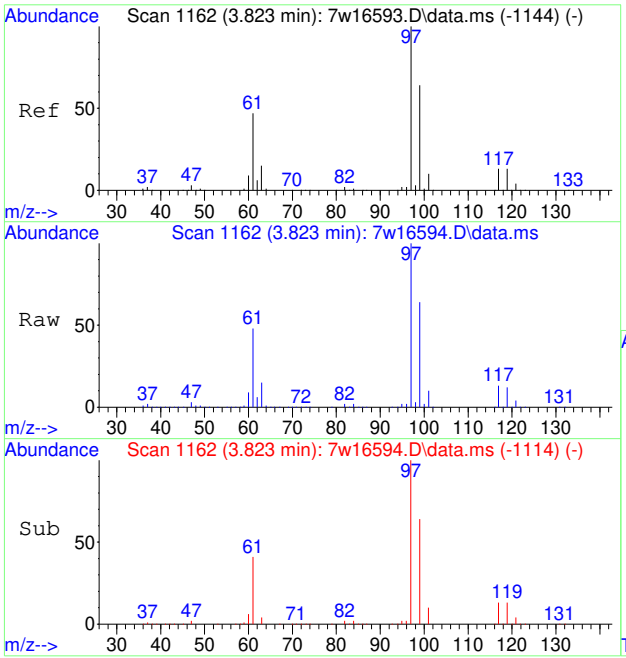


#47
2,4-DIMETHYLPENTANE
Concen: 62.29 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1562455

Ion	Ratio	Lower	Upper
57	100		
56	54.7	38.4	71.2
85	25.2	17.5	32.5

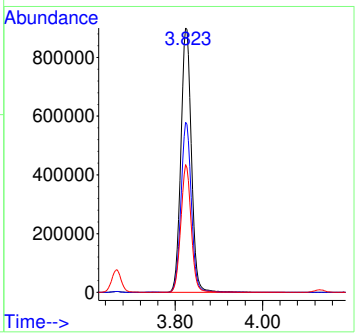


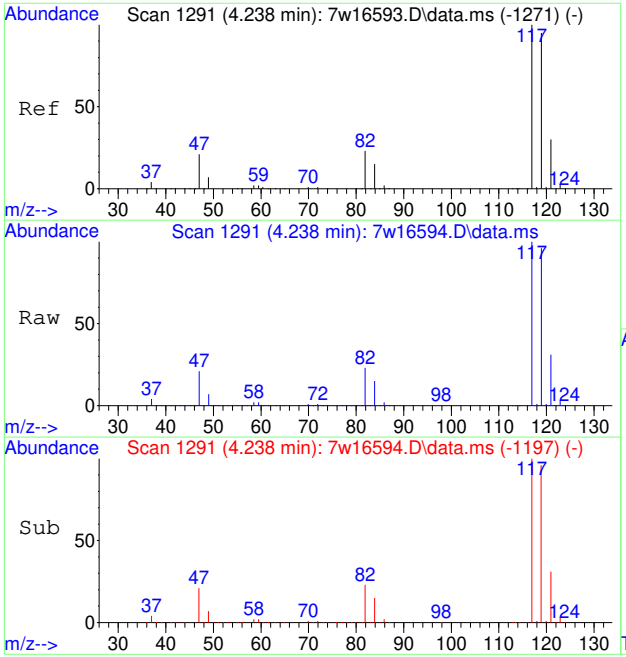


#48
1,1,1-TRICHLOROETHANE
Concen: 61.02 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 97 Resp: 1503844

Ion	Ratio	Lower	Upper
97	100		
99	63.9	45.0	83.6
61	47.7	34.7	64.5

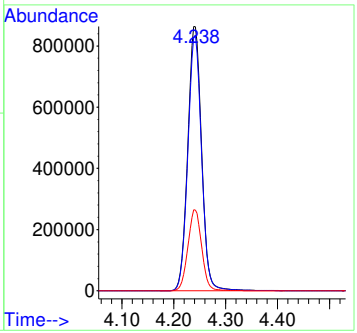


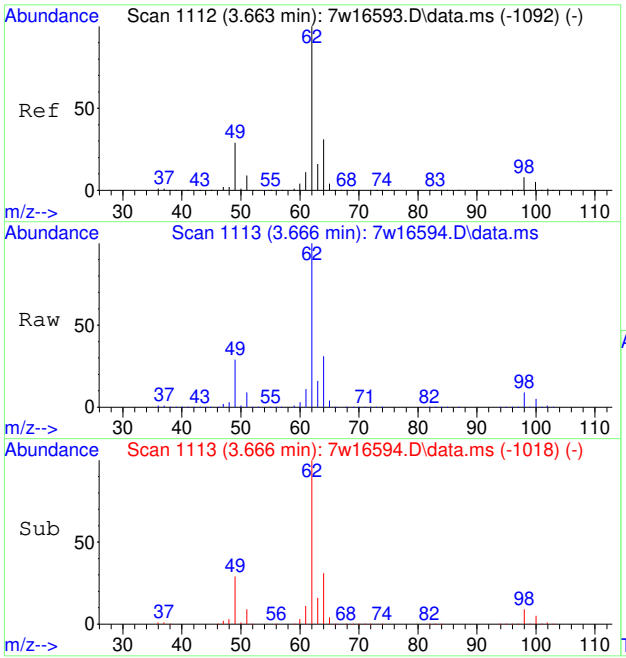


#49
CARBON TETRACHLORIDE
Concen: 62.67 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1592865

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.5	125.3
121	30.7	21.3	39.5

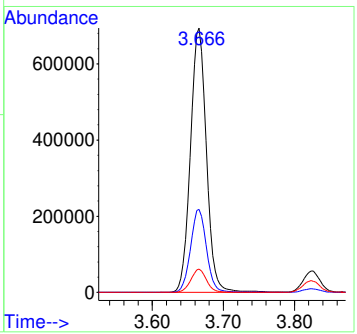


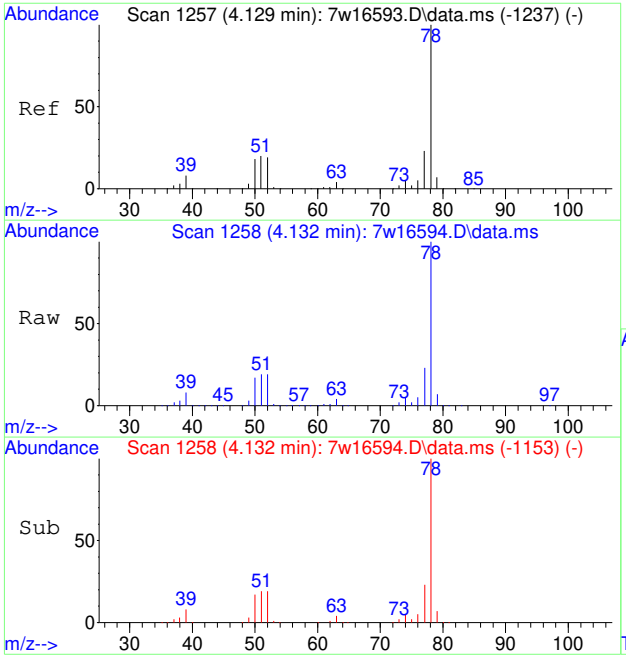


#50
1,2-DICHLOROETHANE
Concen: 59.76 PPBV
RT: 3.666 min Scan# 1113
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 1086518

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.7	5.8	10.8

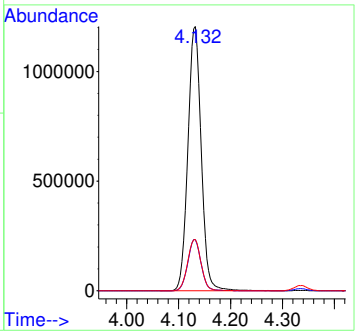


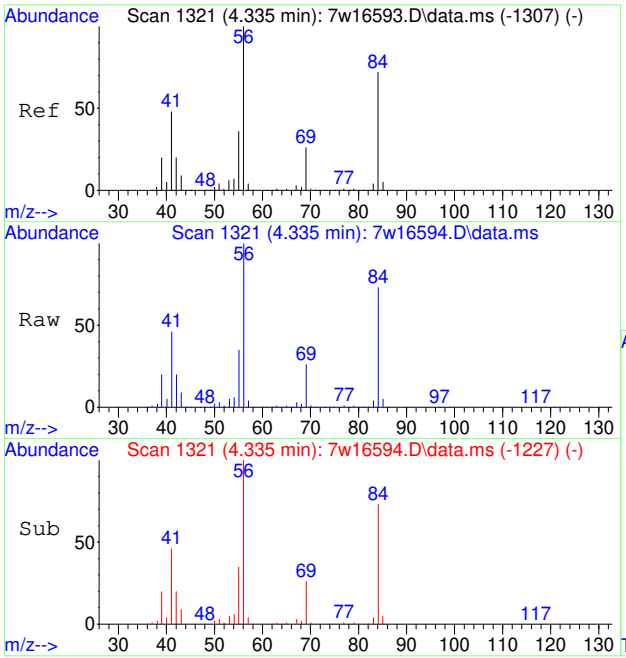


#51
BENZENE
Concen: 59.55 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 78 Resp: 2141182

Ion	Ratio	Lower	Upper
78	100		
52	19.5	0.0	49.9
51	19.7	0.0	50.6

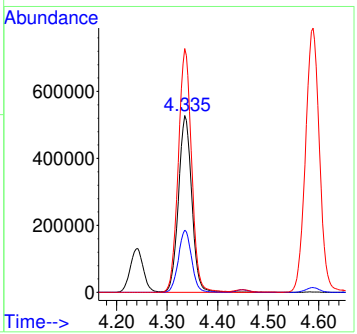


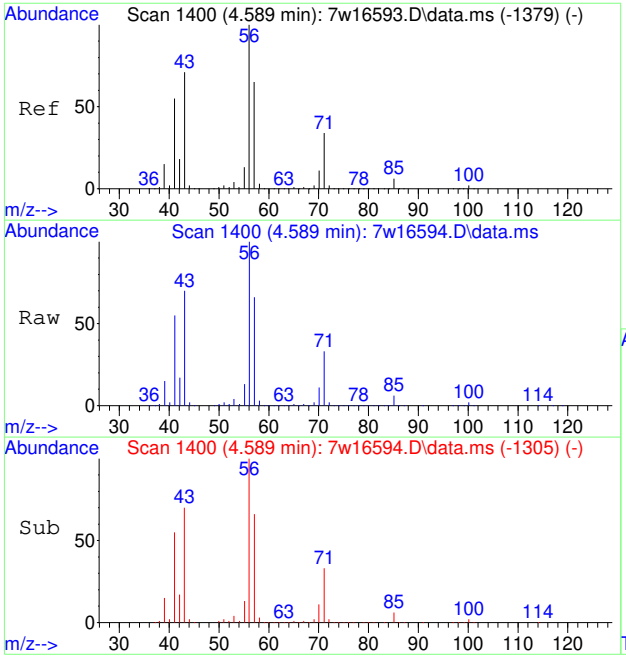


#53
CYCLOHEXANE
Concen: 62.31 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 968144

Ion	Ratio	Lower	Upper
84	100		
69	35.1	24.6	45.6
56	137.7	96.4	179.0

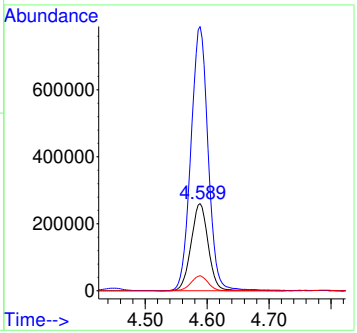


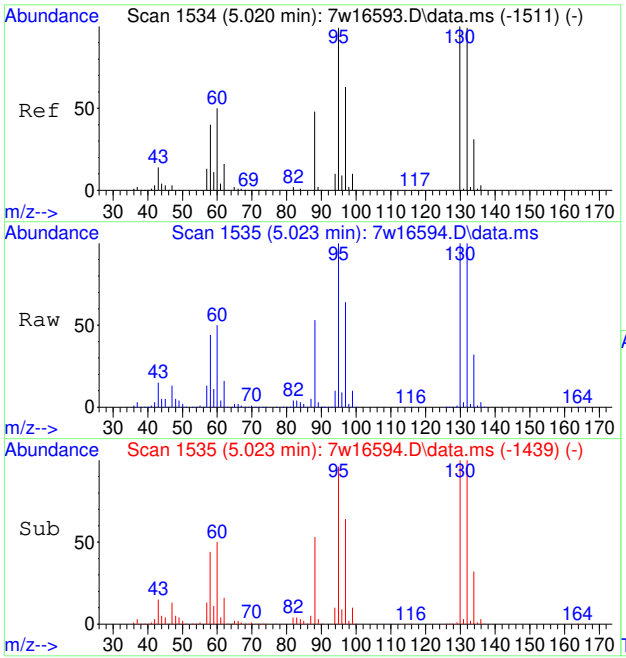


#54
2,3-DIMETHYLPENTANE
Concen: 64.89 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 71 Resp: 501690

Ion	Ratio	Lower	Upper
71	100		
56	303.6	213.2	396.0
85	17.4	12.2	22.6

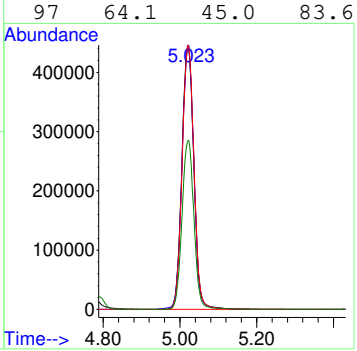


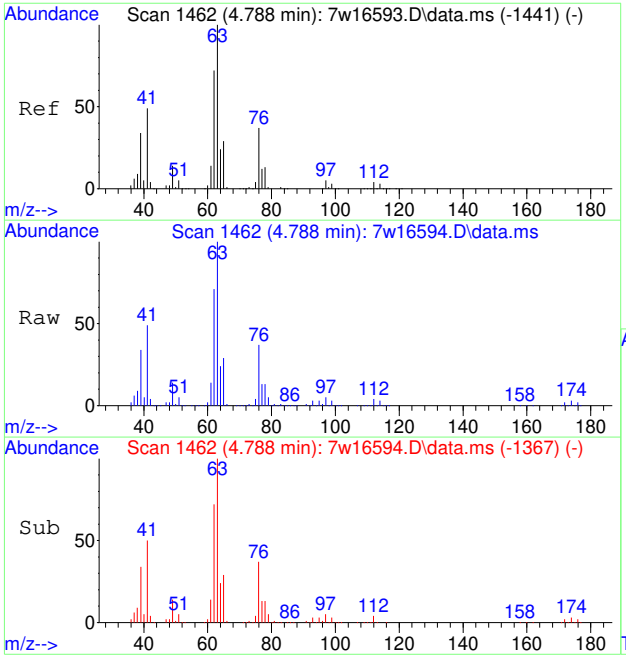


#55
TRICHLOROETHENE
Concen: 57.89 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 95 Resp: 961087

Ion	Ratio	Lower	Upper
95	100		
130	100.0	69.4	129.0
132	99.5	69.4	128.8
97	64.1	45.0	83.6

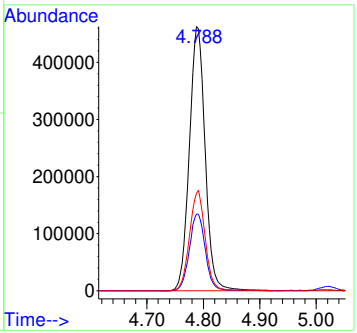


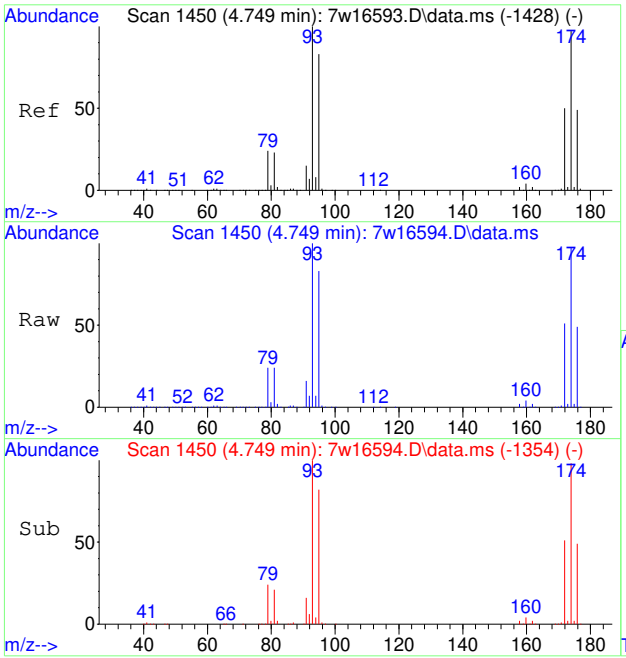


#56
1,2-DICHLOROPROPANE
Concen: 61.43 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 899764

Ion	Ratio	Lower	Upper
63	100		
65	29.5	20.5	38.1
76	37.8	27.1	50.3

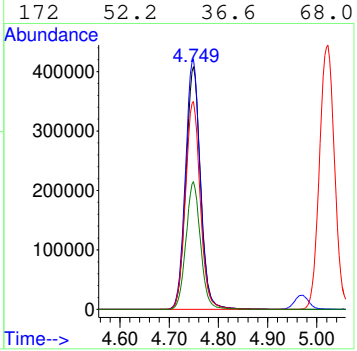


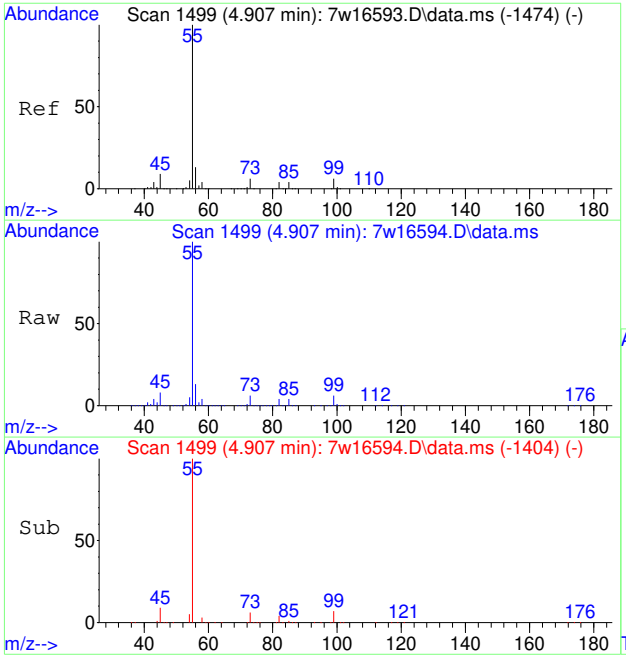


#57
DIBROMOMETHANE
Concen: 59.53 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:174 Resp: 843168

Ion	Ratio	Lower	Upper
174	100		
93	104.3	75.3	139.9
95	87.0	62.4	115.8
172	52.2	36.6	68.0

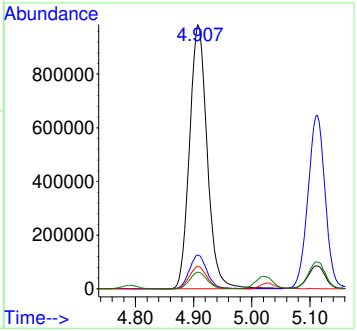


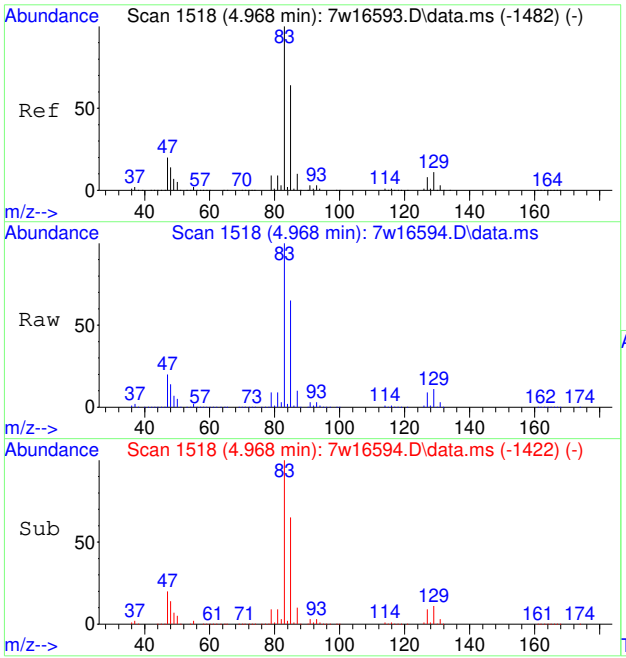


#58
ETHYL ACRYLATE
Concen: 63.61 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 2081872

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.5	6.1	11.3
99	6.2	4.3	8.1

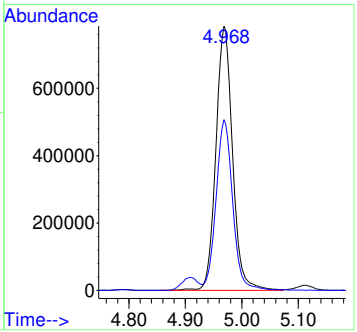


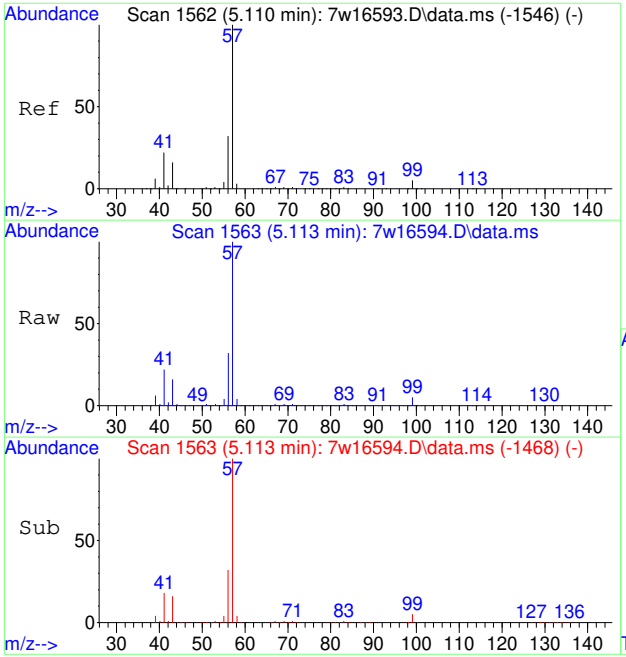


#59
BROMODICHLOROMETHANE
Concen: 60.60 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1618277

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

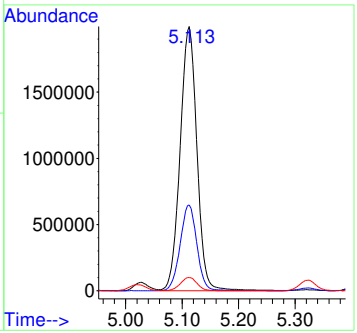


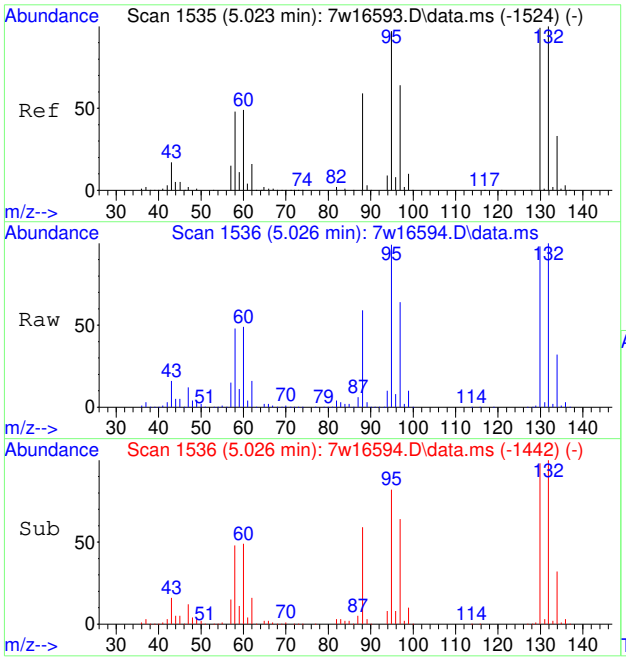


#60
2,2,4-TRIMETHYLPENTANE
Concen: 57.19 PPBV
RT: 5.113 min Scan# 1563
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 4127531

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

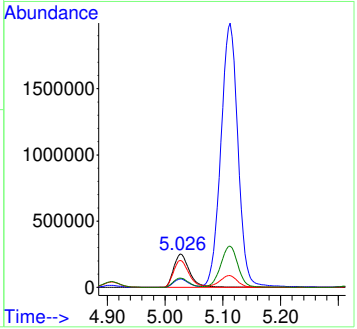


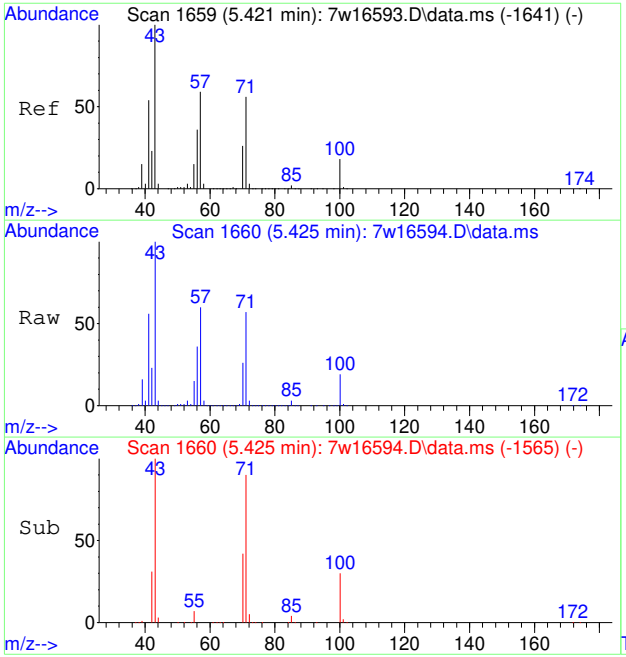


#61
1,4-DIOXANE
Concen: 61.98 PPBV m
RT: 5.026 min Scan# 1536
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 88 Resp: 483214

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

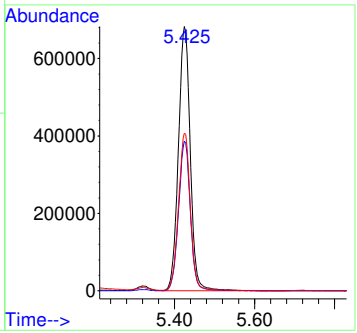


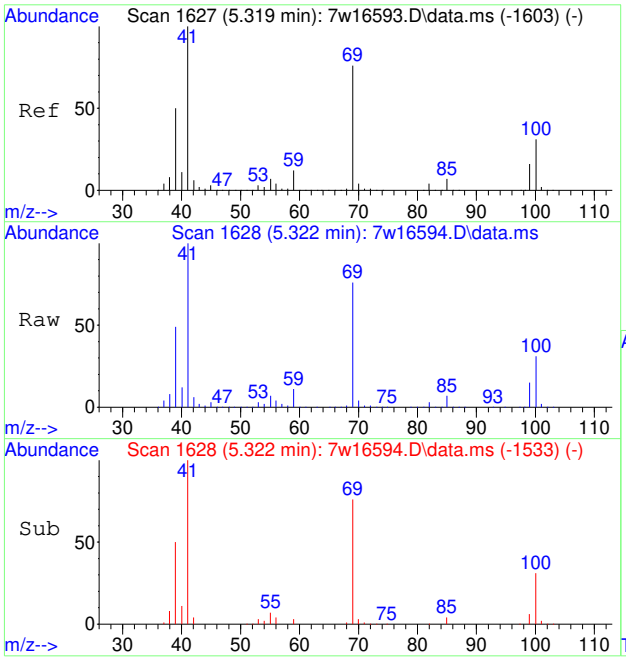


#62
HEPTANE
Concen: 59.03 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1404941

Ion	Ratio	Lower	Upper
43	100		
71	56.5	38.9	72.2
57	59.8	40.5	75.3

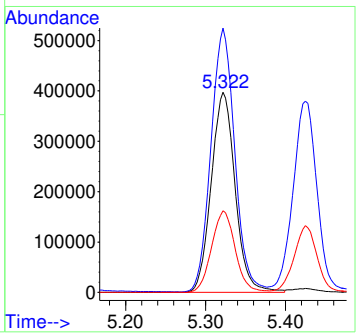


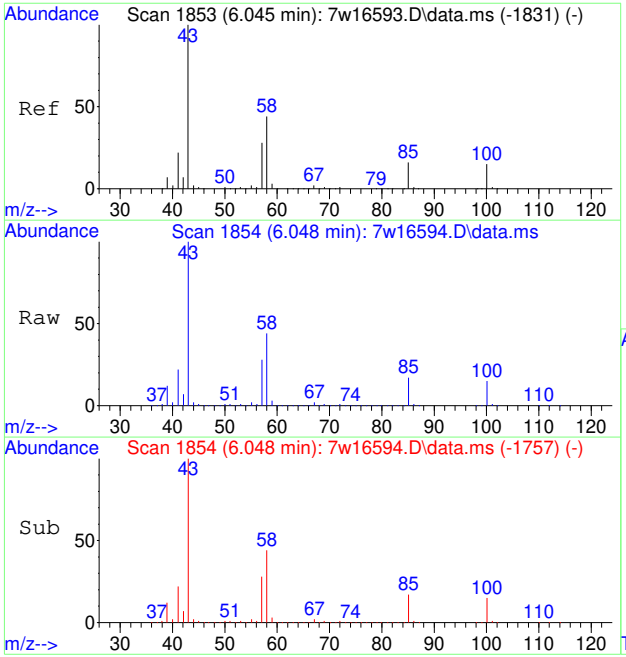


#63
METHYL METHACRYLATE
Concen: 62.06 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 825175

Ion	Ratio	Lower	Upper
69	100		
41	130.8	95.5	177.4
100	40.3	28.1	52.1

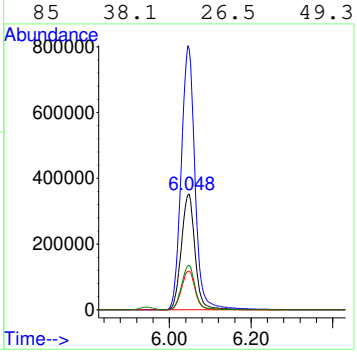


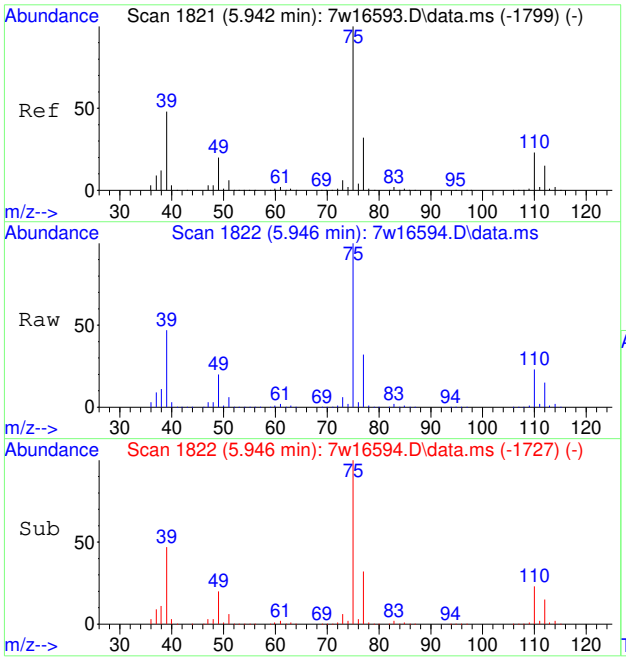


#64
METHYL ISOBUTYL KETONE
Concen: 57.66 PPBV
RT: 6.048 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 823387

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.8	23.2	43.2
85	38.1	26.5	49.3

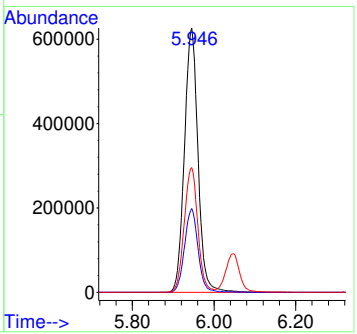


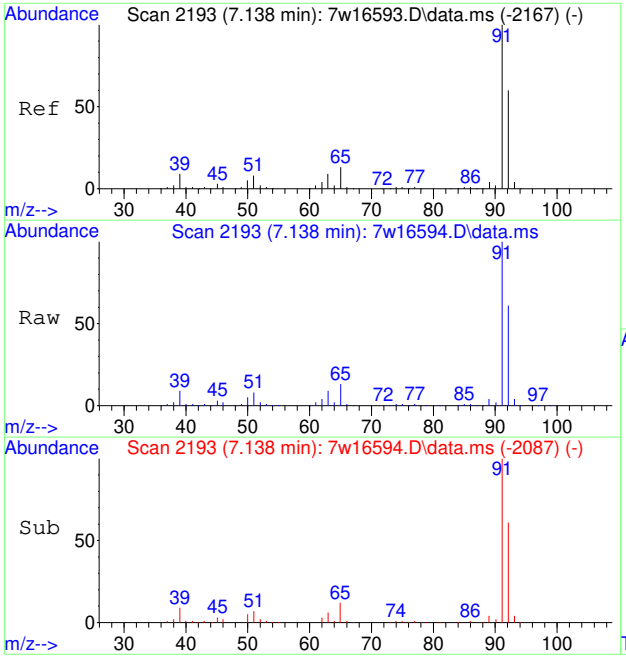


#65
CIS-1,3-DICHLOROPROPENE
Concen: 64.81 PPBV
RT: 5.946 min Scan# 1822
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1444587

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.0	41.0
39	47.4	35.7	66.3

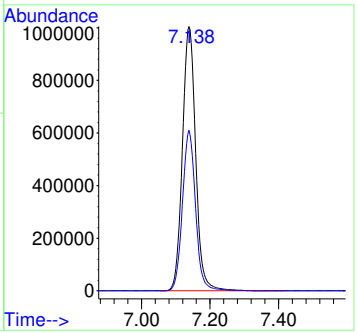


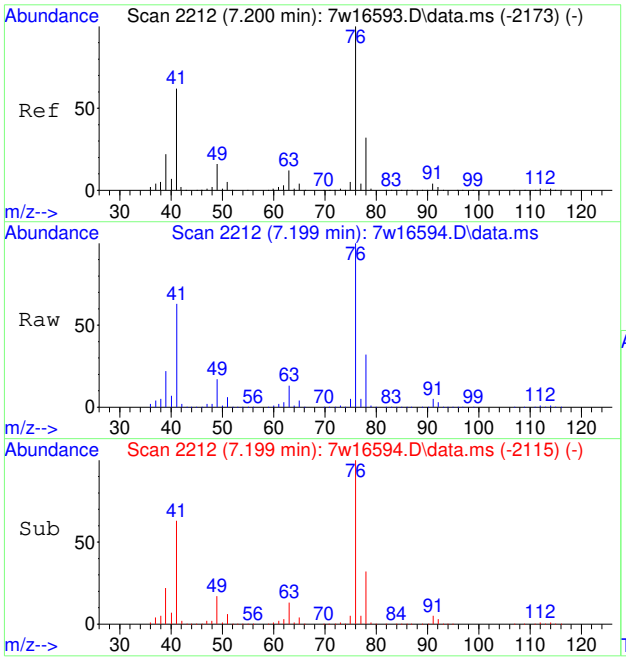


#66
TOLUENE
Concen: 63.95 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2694962

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

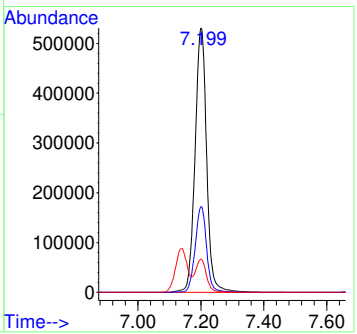


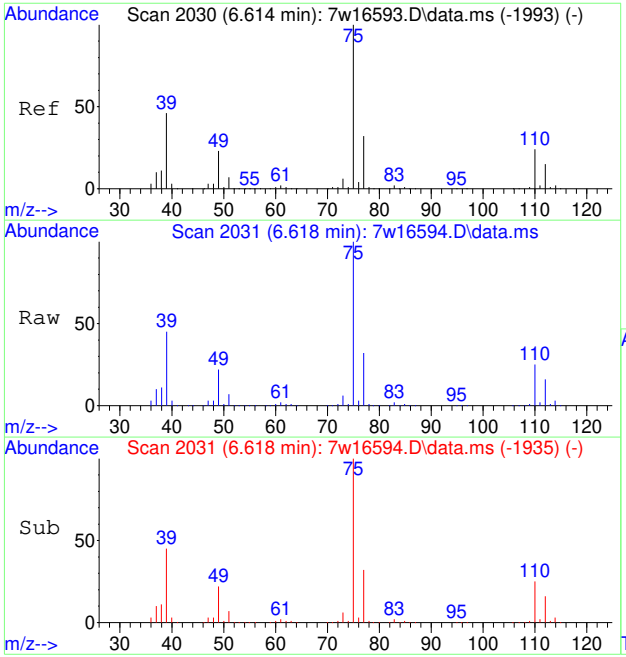


#67
1,3-DICHLOROPROPANE
Concen: 64.47 PPBV
RT: 7.199 min Scan# 2212
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1360921

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.7	8.3	15.5

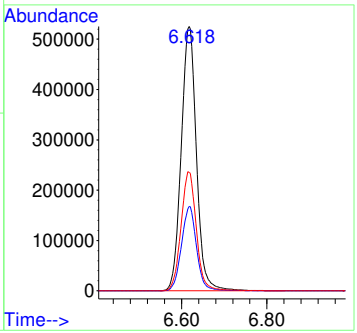


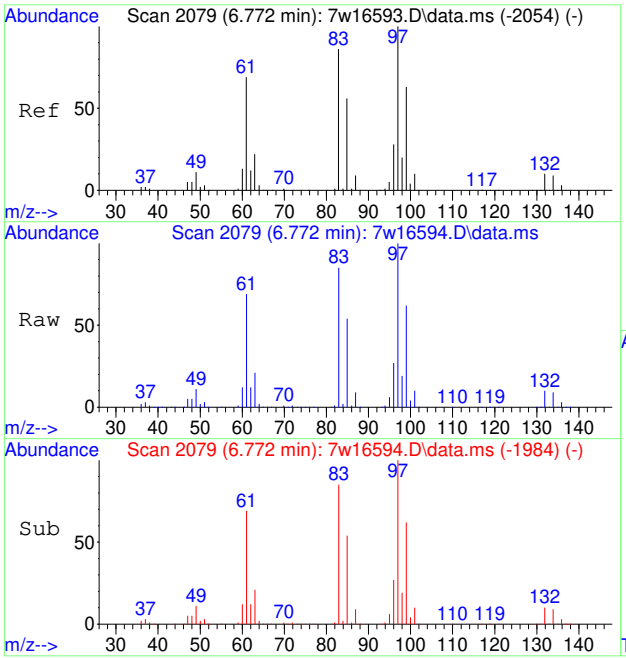


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 65.06 PPBV
RT: 6.618 min Scan# 2031
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1302469

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.3	41.5
39	45.4	33.9	63.0

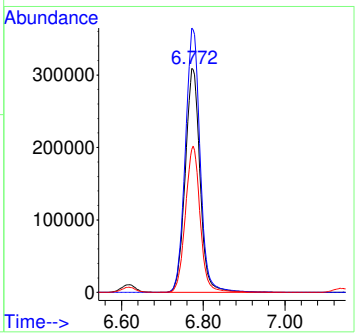


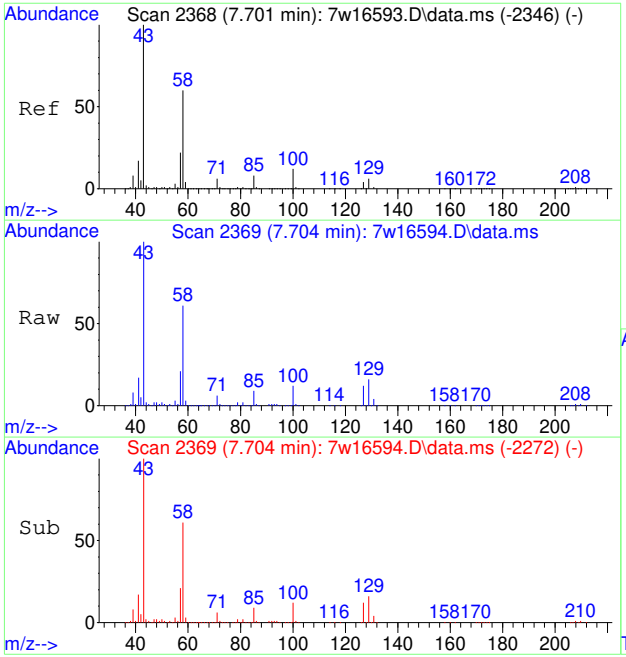


#69
1,1,2-TRICHLOROETHANE
Concen: 64.67 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 774964

Ion	Ratio	Lower	Upper
83	100		
97	0.0	81.2	150.8#
85	65.3	45.1	83.7

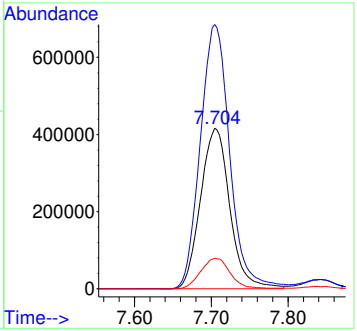


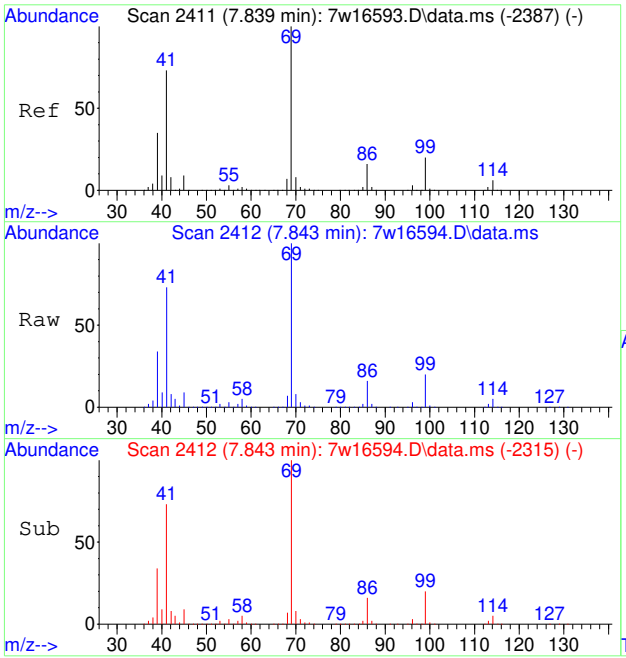


#70
2-HEXANONE
Concen: 55.20 PPBV
RT: 7.704 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 1106138

Ion	Ratio	Lower	Upper
58	100		
43	165.3	118.6	220.2
100	19.3	13.0	24.2

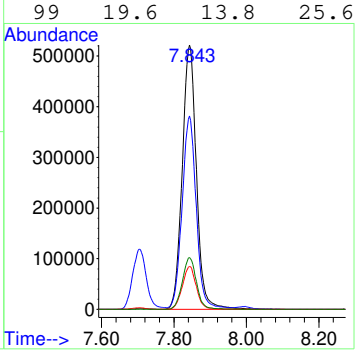


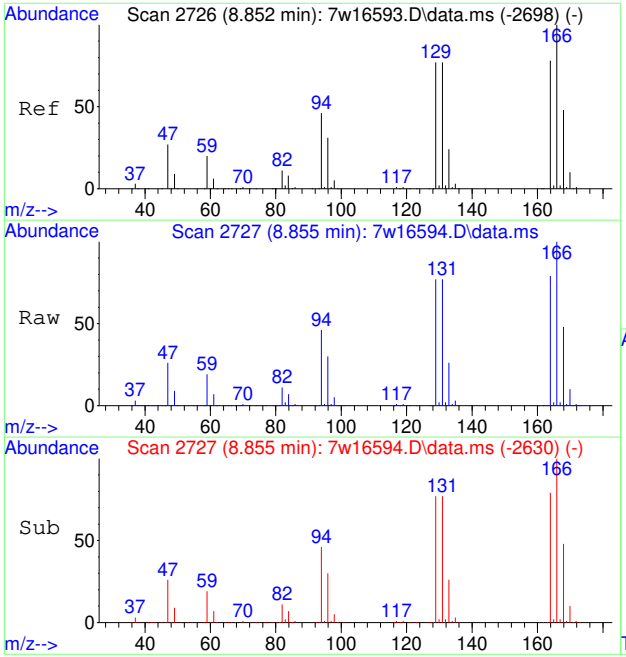


#71
ETHYL METHACRYLATE
Concen: 64.21 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 1420765

Ion	Ratio	Lower	Upper
69	100		
41	73.2	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

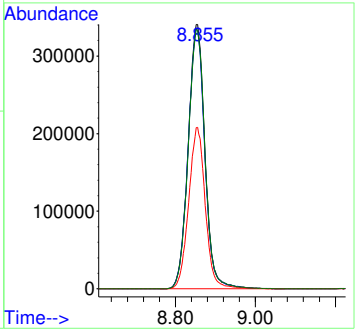


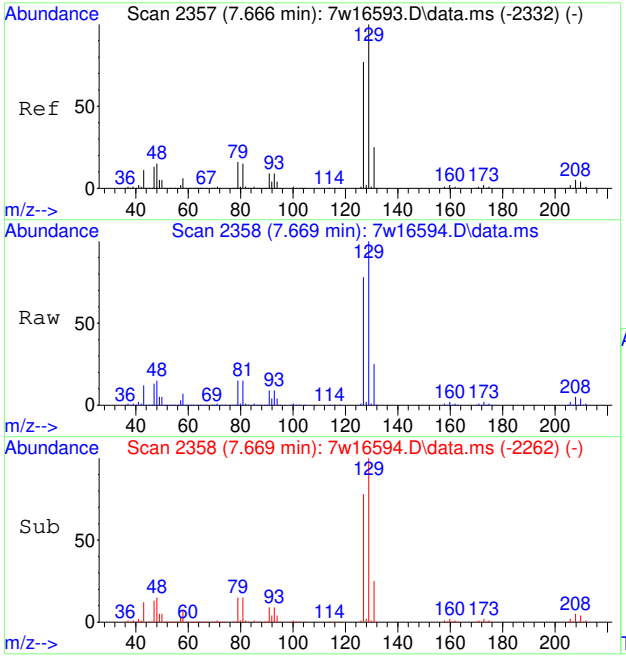


#72
TETRACHLOROETHENE
Concen: 64.80 PPBV
RT: 8.855 min Scan# 2727
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:164 Resp: 995678

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.4	69.4	129.0

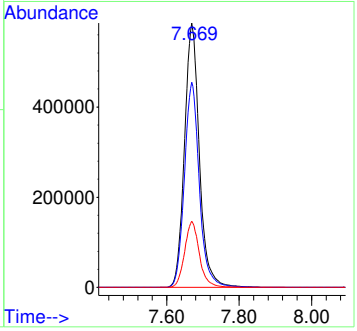


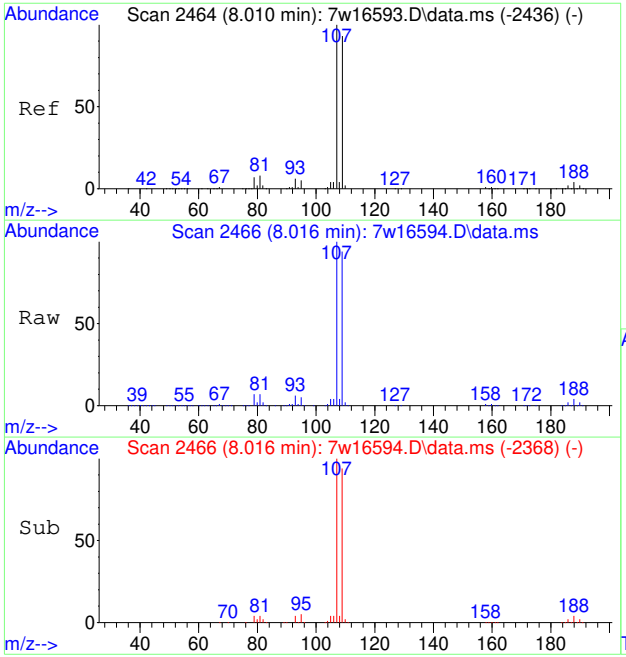


#73
DIBROMOCHLOROMETHANE
Concen: 69.22 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:129 Resp: 1671777

Ion	Ratio	Lower	Upper
129	100		
127	78.0	54.7	101.7
131	24.9	17.4	32.4

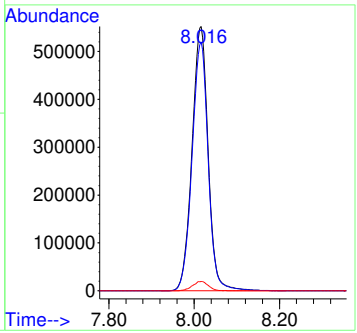


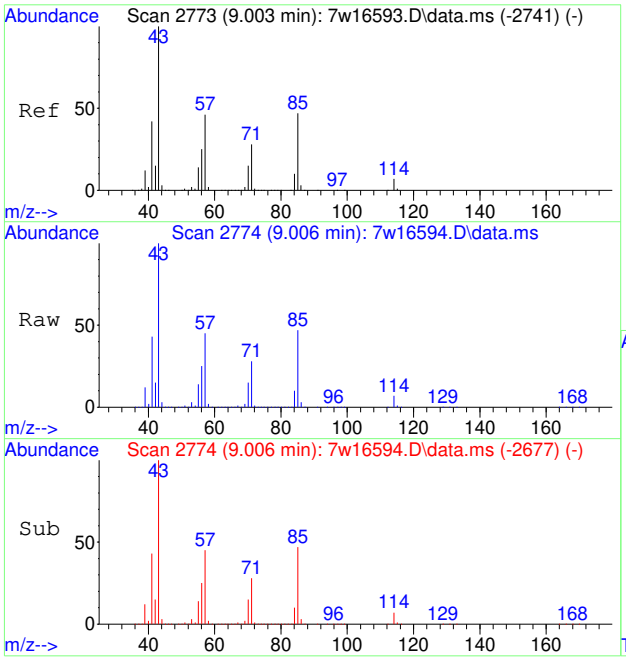


#74
1,2-DIBROMOETHANE
Concen: 66.89 PPBV
RT: 8.016 min Scan# 2466
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:107 Resp: 1452027

Ion	Ratio	Lower	Upper
107	100		
109	94.3	66.1	122.8
188	3.5	2.5	4.6

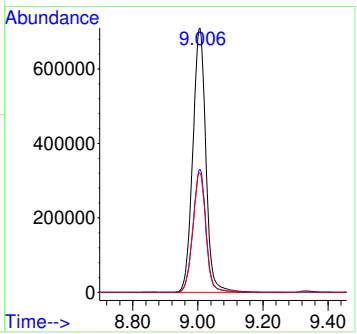


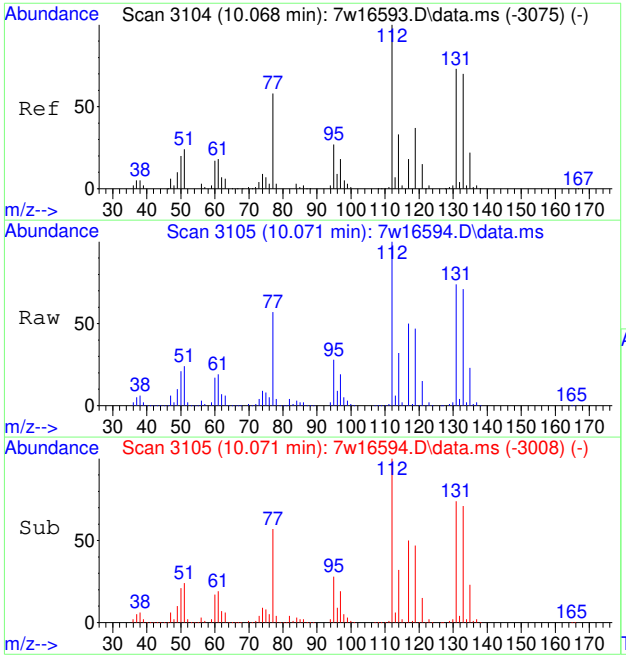


#75
OCTANE
Concen: 62.35 PPBV
RT: 9.006 min Scan# 2774
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1982903

Ion	Ratio	Lower	Upper
43	100		
85	46.5	31.8	59.0
57	45.3	31.4	58.2

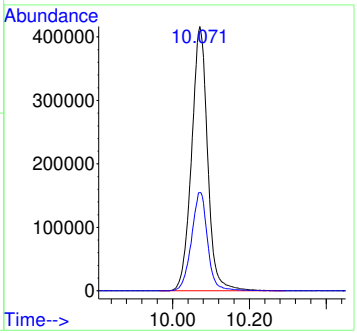


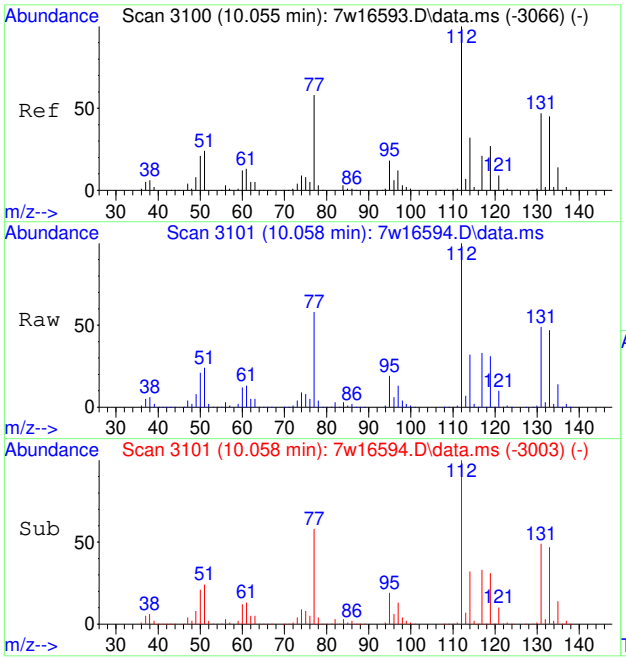


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 69.43 PPBV
RT: 10.071 min Scan# 3105
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:131 Resp: 1205798

Ion	Ratio	Lower	Upper
131	100		
95	37.5	26.5	49.1

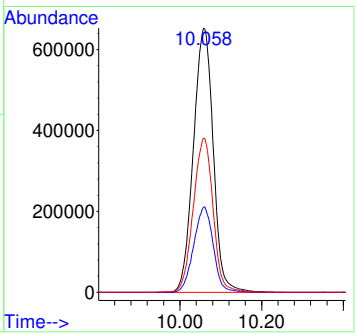


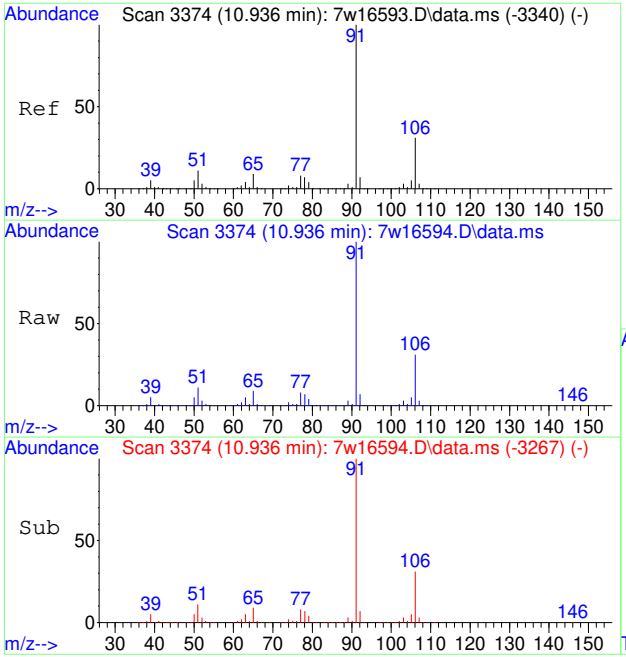


#78
CHLOROBENZENE
Concen: 66.36 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:112 Resp: 2204542

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.7
77	58.5	42.1	78.1

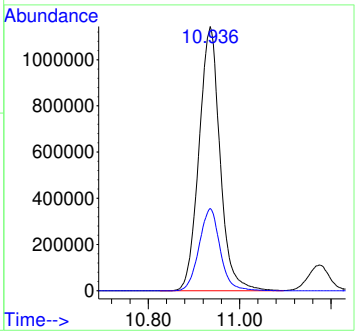


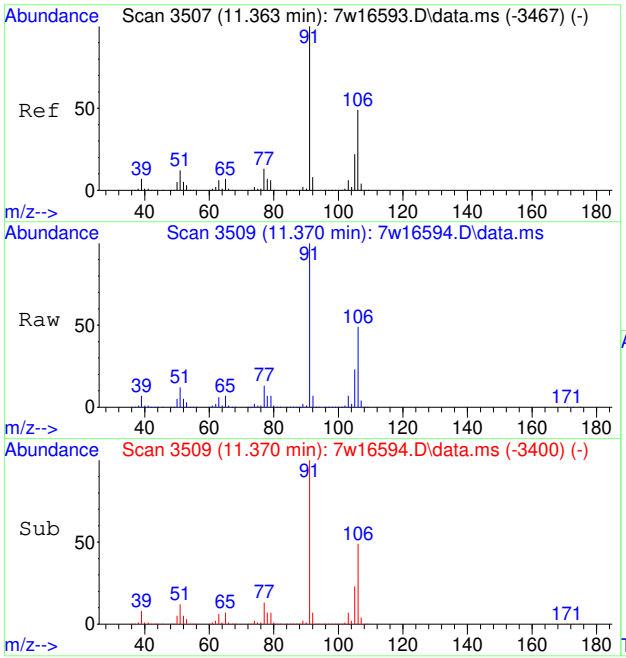


#79
ETHYLBENZENE
Concen: 67.08 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3650660

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

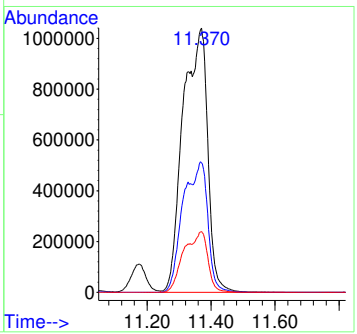


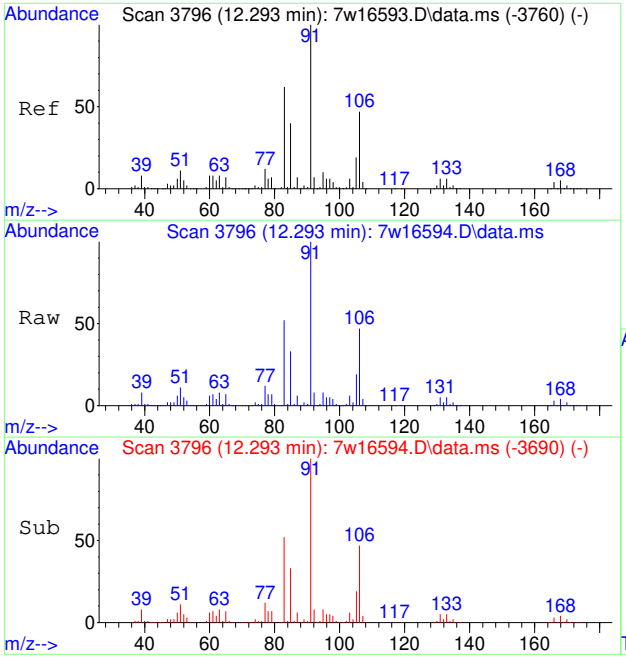


#80
M,P-XYLENE
Concen: 125.67 PPBV
RT: 11.370 min Scan# 3509
Delta R.T. 0.020 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 5556486

Ion	Ratio	Lower	Upper
91	100		
106	49.6	0.0	56.1
105	22.5	0.0	42.1

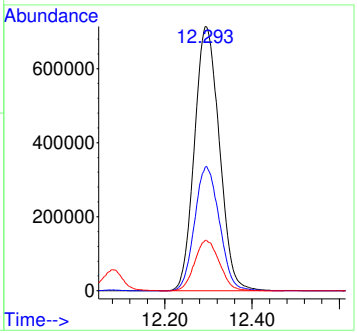


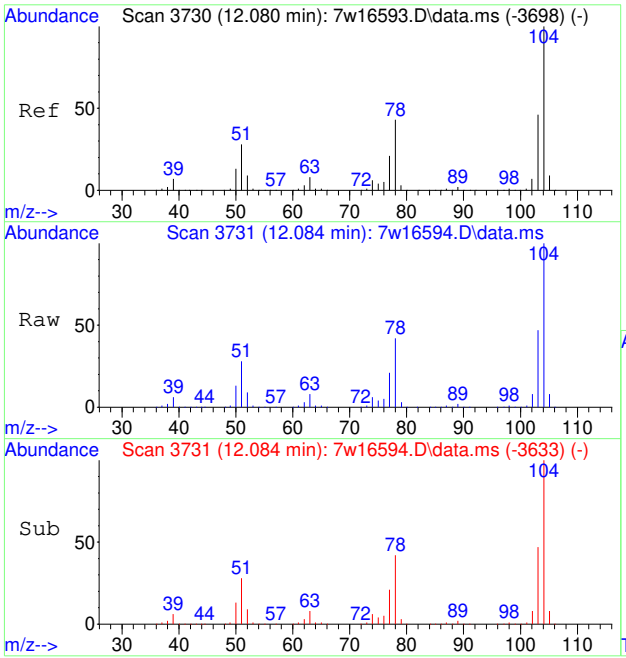


#81
O-XYLENE
Concen: 66.28 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2839567

Ion	Ratio	Lower	Upper
91	100		
106	46.7	31.8	59.0
105	19.1	13.0	24.2

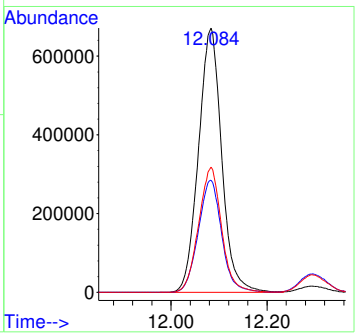


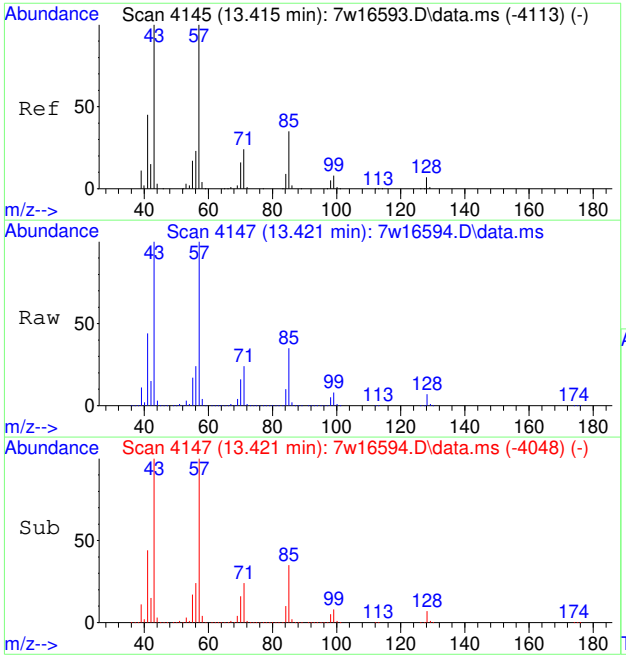


#82
STYRENE
Concen: 70.41 PPBV
RT: 12.084 min Scan# 3731
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:104 Resp: 2245416

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

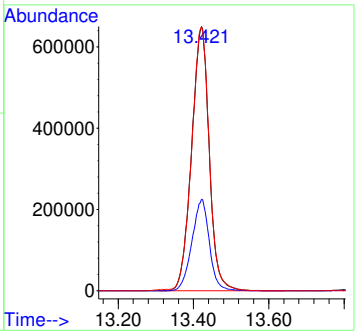


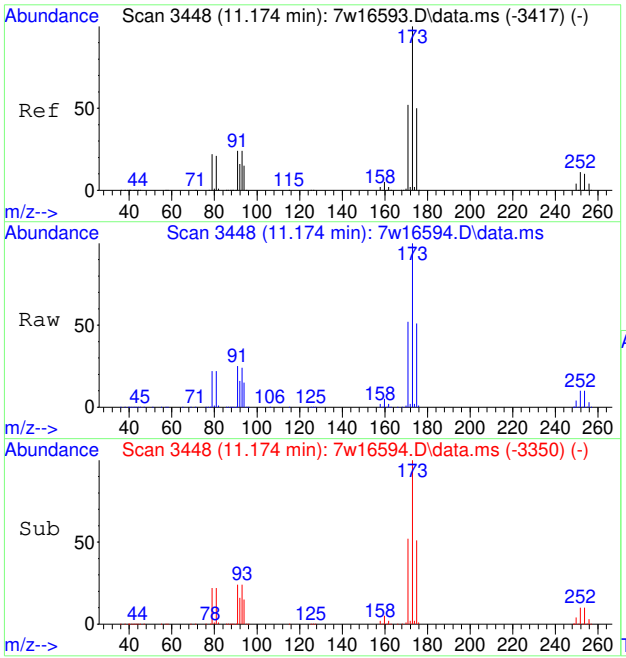


#83
NONANE
Concen: 63.10 PPBV
RT: 13.421 min Scan# 4147
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 2110946

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.8	69.2	128.6

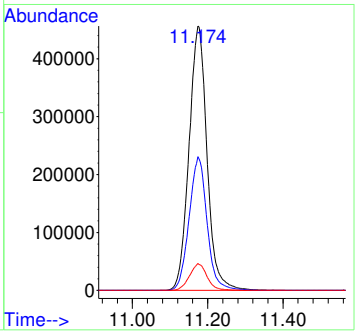


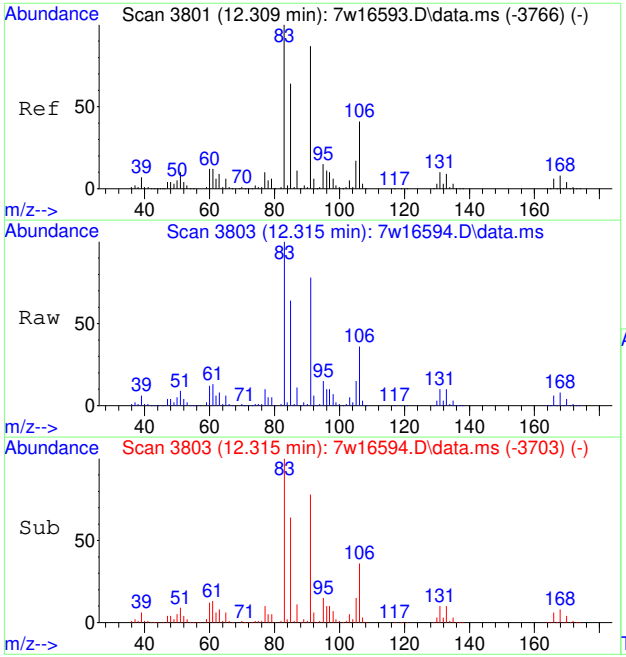


#84
BROMOFORM
Concen: 75.01 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:173 Resp: 1514711

Ion	Ratio	Lower	Upper
173	100		
175	50.3	35.1	65.1
254	9.9	6.7	12.5

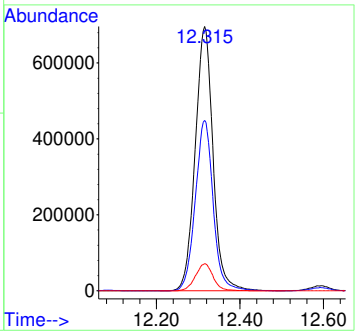


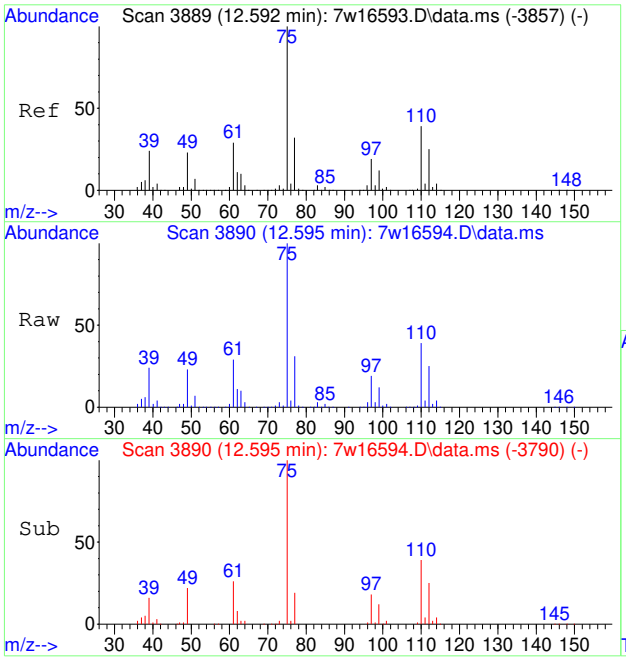


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 67.37 PPBV
RT: 12.315 min Scan# 3803
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 2064226

Ion	Ratio	Lower	Upper
83	100		
85	64.6	45.5	84.5
131	10.3	7.3	13.5

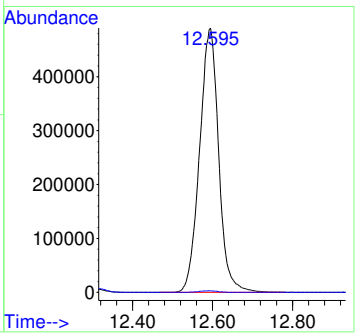


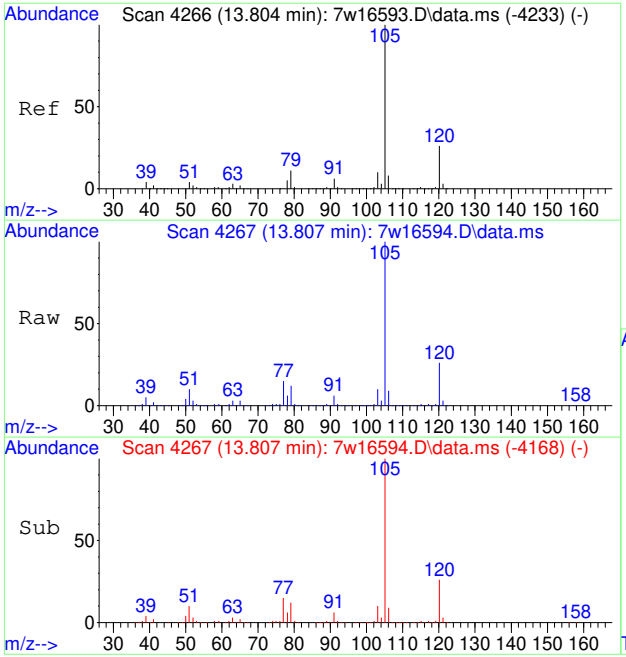


#86
1,2,3-TRICHLOROPROPANE
Concen: 67.69 PPBV
RT: 12.595 min Scan# 3890
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1624746

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

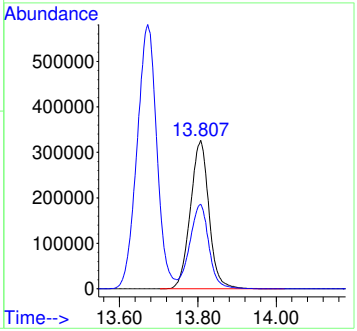


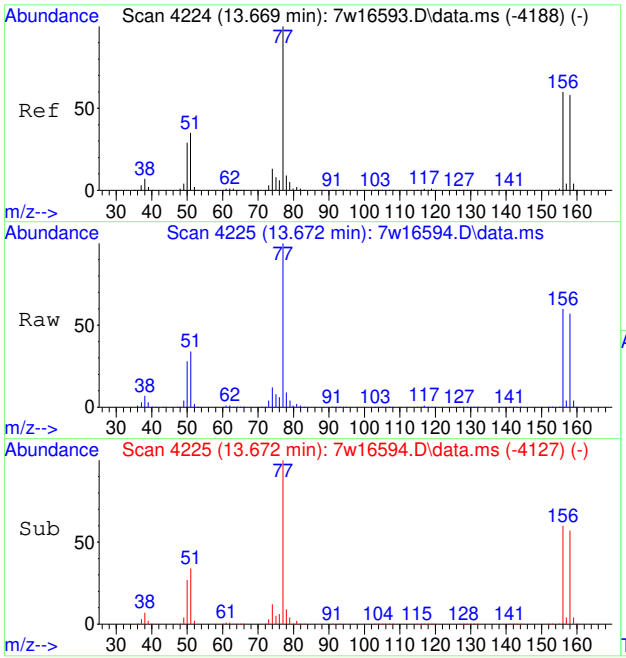


#88
ISOPROPYLBENZENE
Concen: 65.98 PPBV
RT: 13.807 min Scan# 4267
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1073063

Ion	Ratio	Lower	Upper
120	100		
77	58.2	42.5	78.9

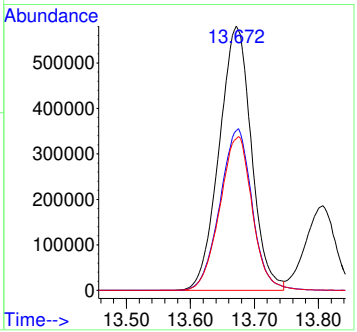


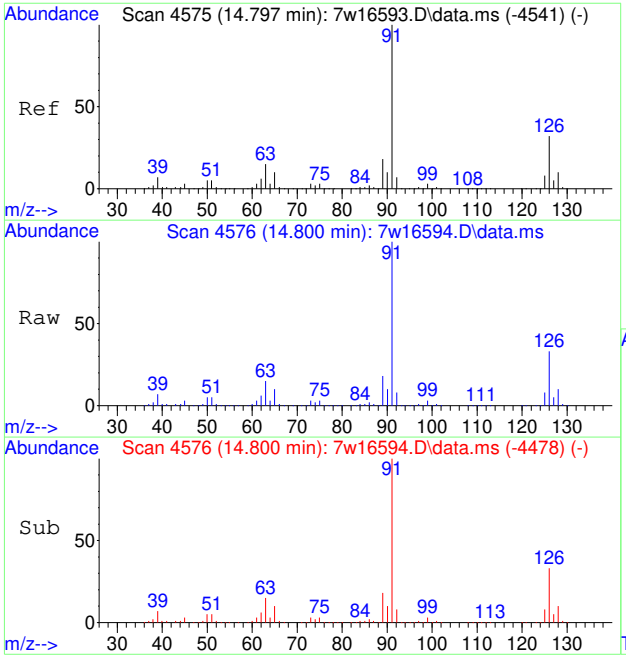


#89
BROMOBENZENE
Concen: 65.06 PPBV
RT: 13.672 min Scan# 4225
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 77 Resp: 2035109

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	58.7	40.9	76.0

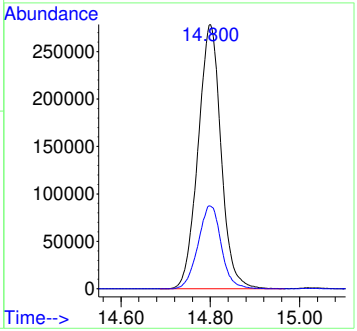


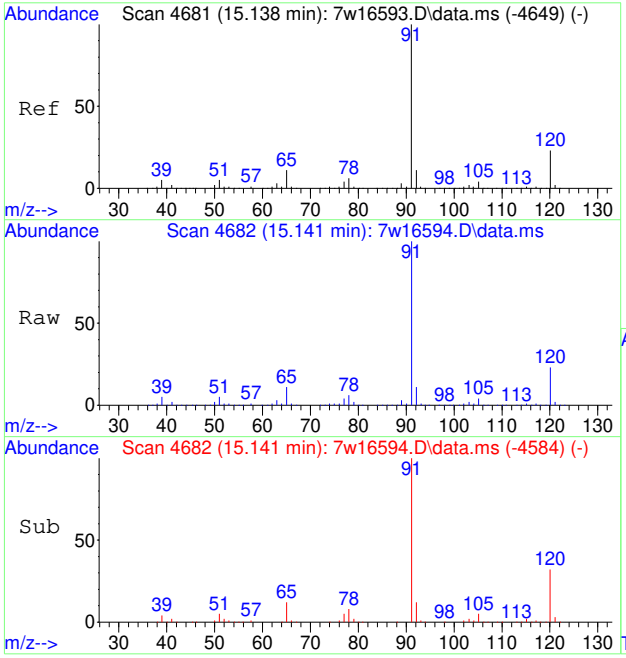


#90
2-CHLOROTOLUENE
Concen: 65.73 PPBV
RT: 14.800 min Scan# 4576
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:126 Resp: 993540

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.5	41.7

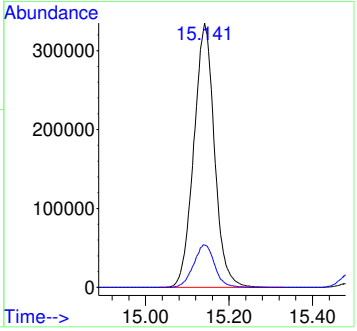


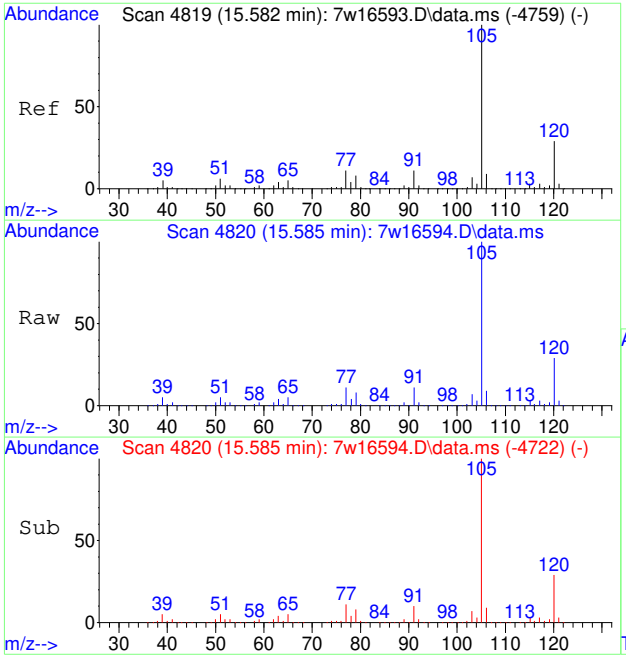


#91
N-PROPYLBENZENE
Concen: 66.71 PPBV
RT: 15.141 min Scan# 4682
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1146895

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

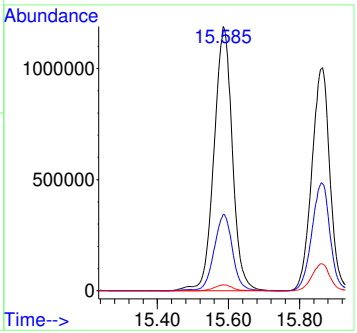


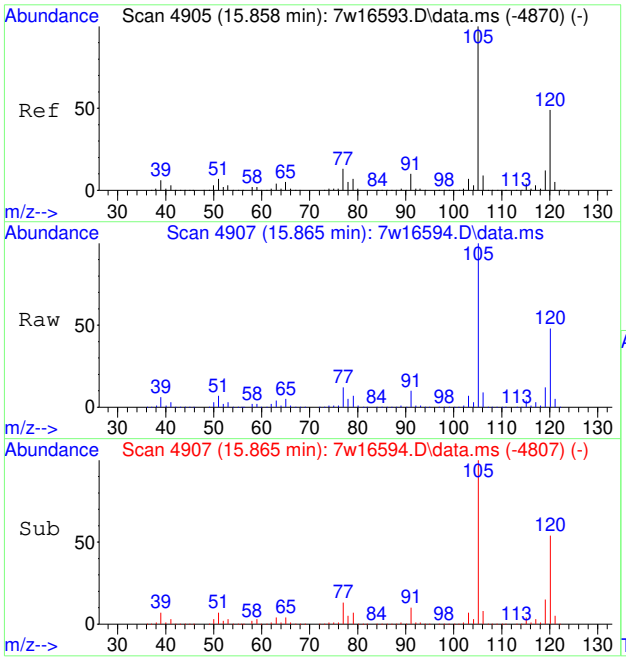


#92
4-ETHYLTOLUENE
Concen: 66.89 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 4258764

Ion	Ratio	Lower	Upper
105	100		
120	29.1	20.7	38.5
119	2.2	1.6	3.0

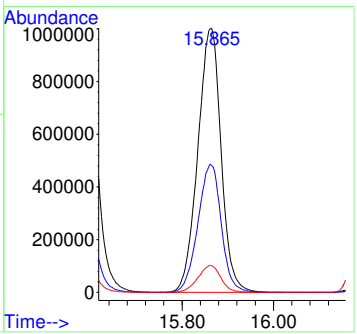


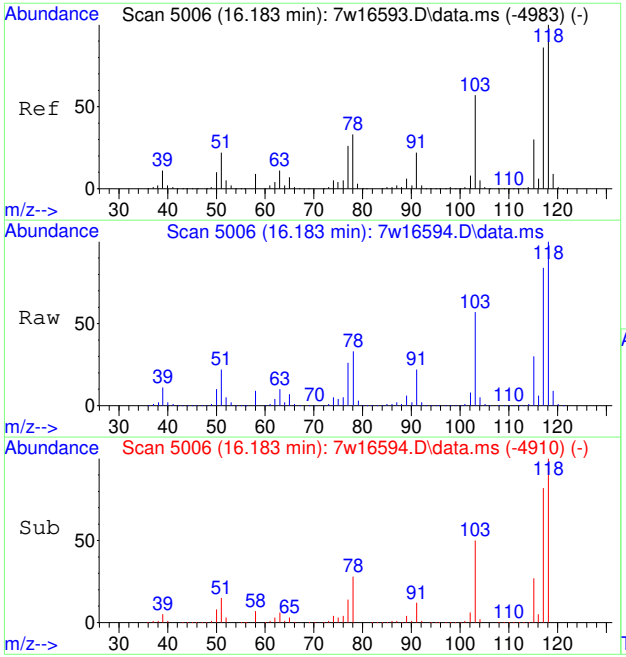


#93
1,3,5-TRIMETHYLBENZENE
Concen: 66.72 PPBV
RT: 15.865 min Scan# 4907
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3539586

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

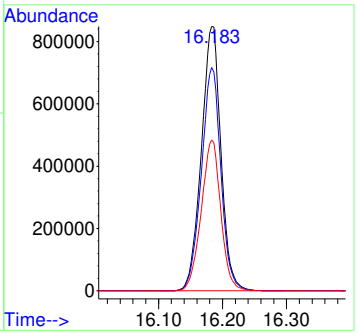


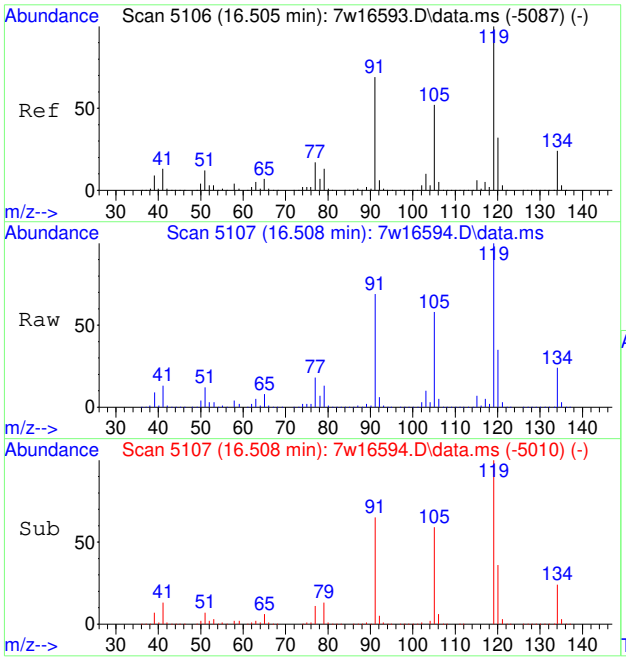


#94
ALPHA-METHYLSTYRENE
Concen: 68.96 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:118 Resp: 1802748

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.9	40.3	74.9

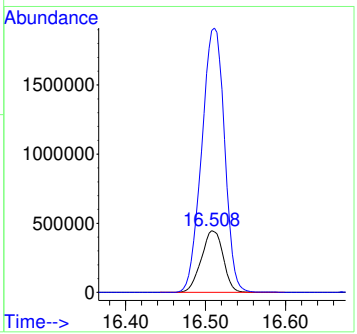


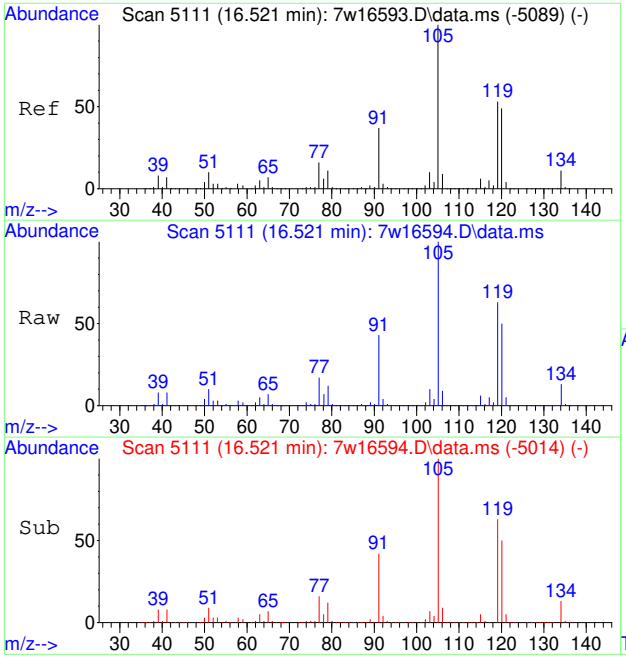


#95
TERT-BUTYLBENZENE
Concen: 65.41 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 849405

Ion	Ratio	Lower	Upper
134	100		
119	445.9	311.3	578.1

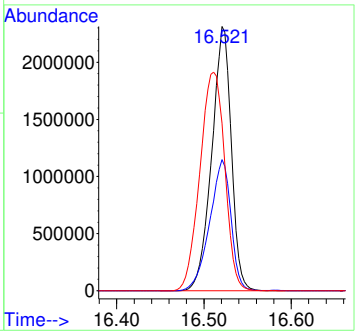


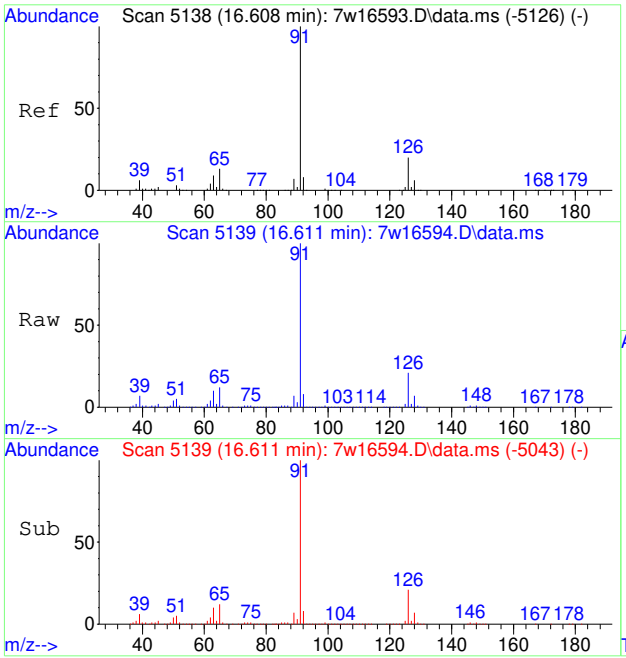


#96
1,2,4-TRIMETHYLBENZENE
Concen: 68.48 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3598939

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

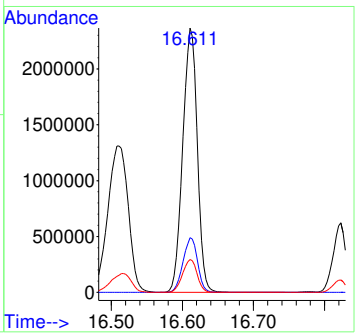


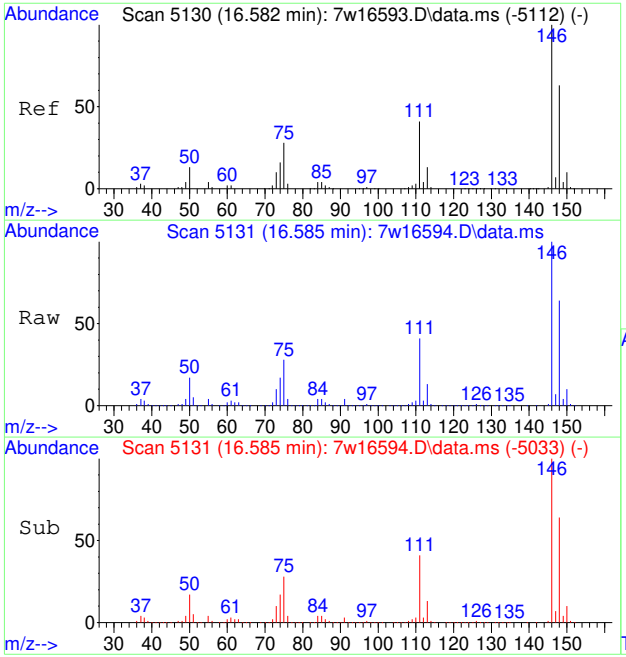


#97
BENZYL CHLORIDE
Concen: 81.19 PPBV
RT: 16.611 min Scan# 5139
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3366305

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.5	9.2	17.0

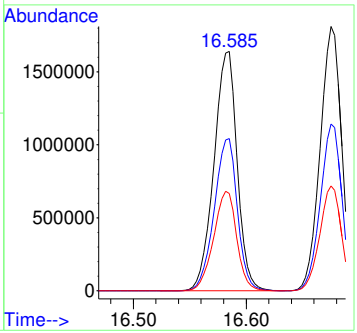


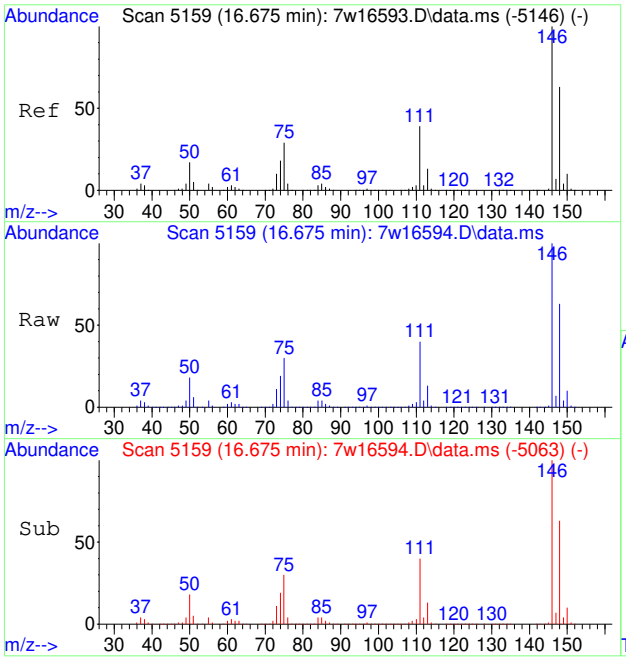


#98
M-DICHLOROBENZENE
Concen: 64.53 PPBV
RT: 16.585 min Scan# 5131
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2335430

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.6	82.8
111	41.4	29.3	54.3

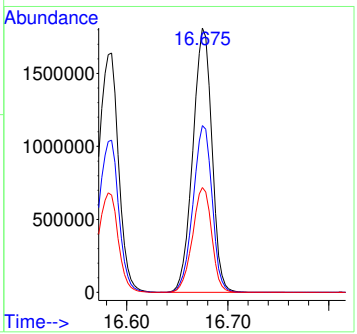


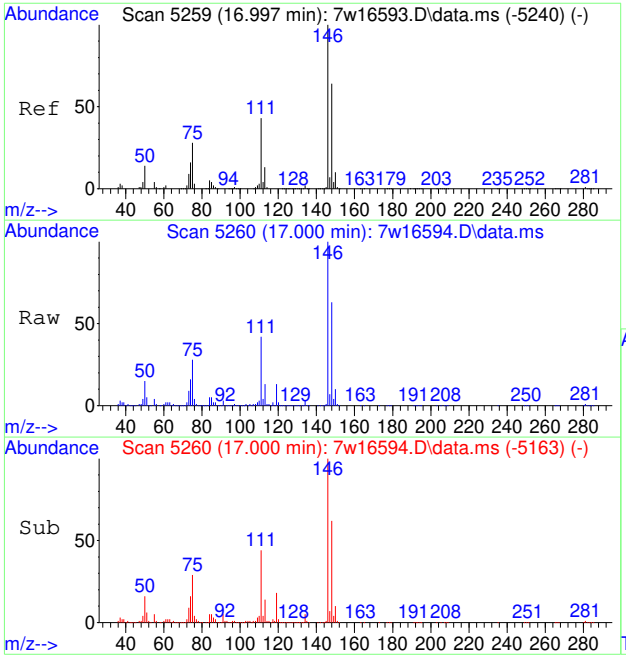


#99
P-DICHLOROBENZENE
Concen: 66.58 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2373563

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	39.9	28.0	52.0

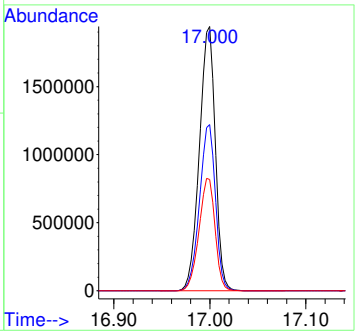


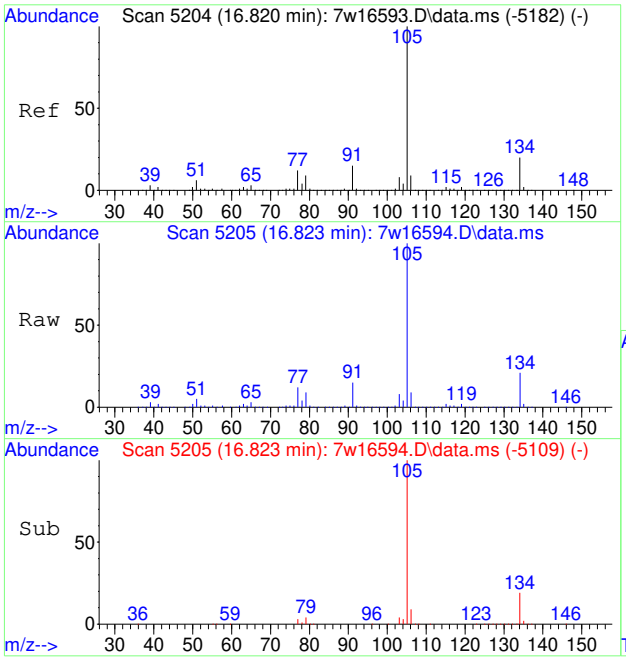


#100
O-DICHLOROBENZENE
Concen: 66.71 PPBV
RT: 17.000 min Scan# 5260
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2236033

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

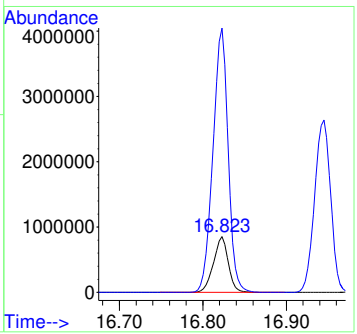


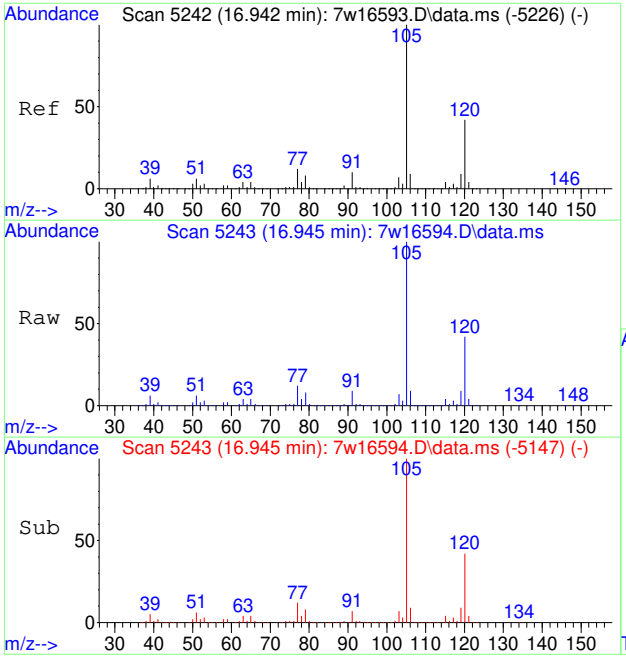


#101
SEC-BUTYLBENZENE
Concen: 67.84 PPBV
RT: 16.823 min Scan# 5205
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1046061

Ion	Ratio	Lower	Upper
134	100		
105	488.3	344.8	640.3

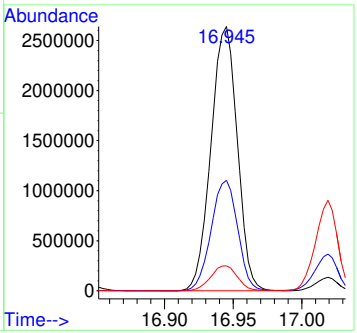


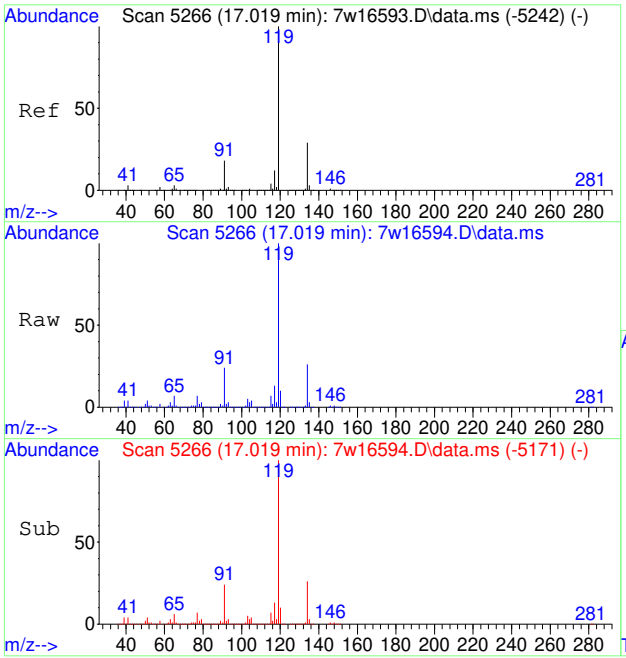


#102
1,2,3-TRIMETHYLBENZENE
Concen: 66.96 PPBV
RT: 16.945 min Scan# 5243
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3529094

Ion	Ratio	Lower	Upper
105	100		
120	42.1	29.3	54.3
91	9.7	7.0	13.0

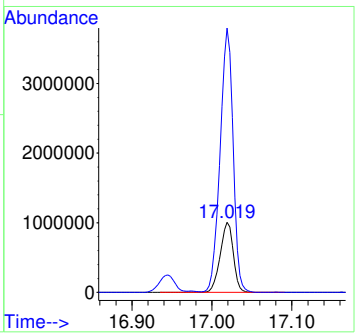


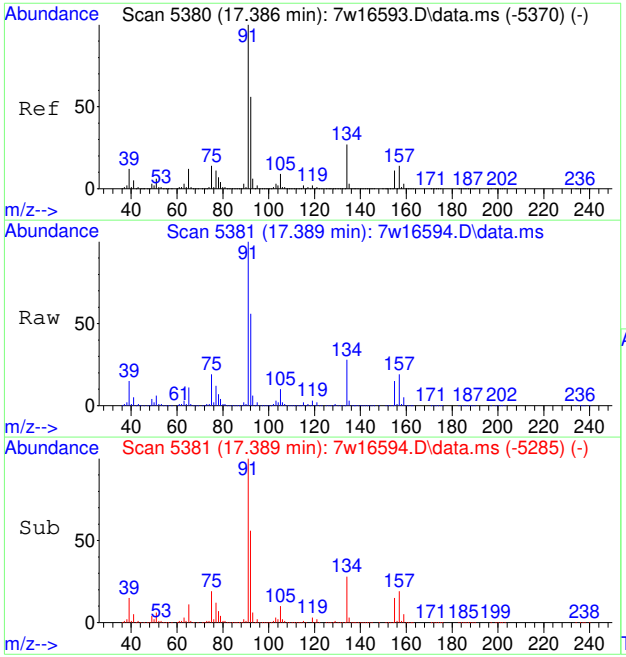


#103
P-ISOPROPYLTOLUENE
Concen: 66.86 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1145439

Ion	Ratio	Lower	Upper
134	100		
119	373.3	261.4	485.4

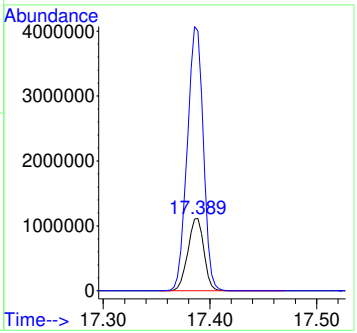


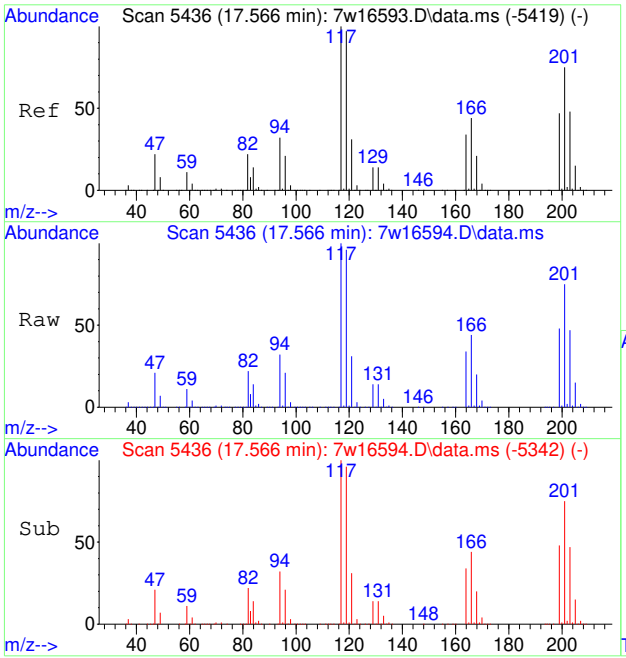


#104
N-BUTYLBENZENE
Concen: 71.38 PPBV
RT: 17.389 min Scan# 5381
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1159070

Ion	Ratio	Lower	Upper
134	100		
91	367.1	261.0	484.8

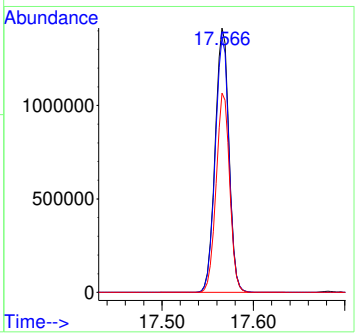


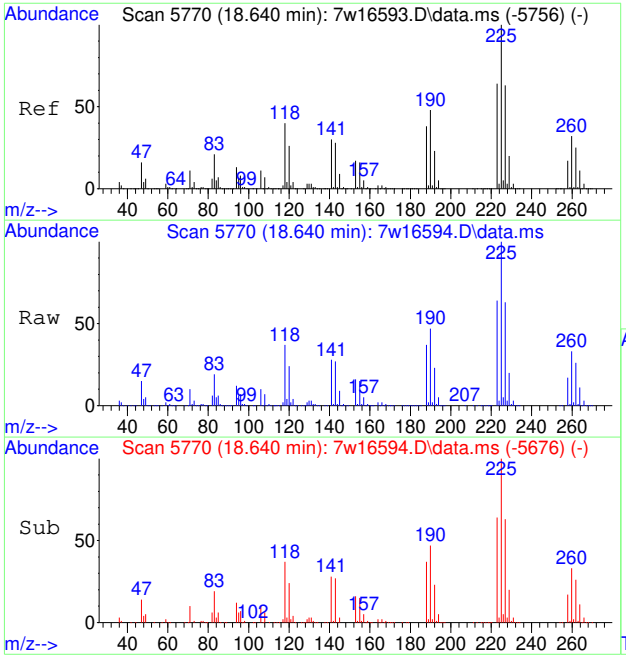


#105
HEXACHLOROETHANE
Concen: 74.98 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1491790

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	74.0	49.8	92.6

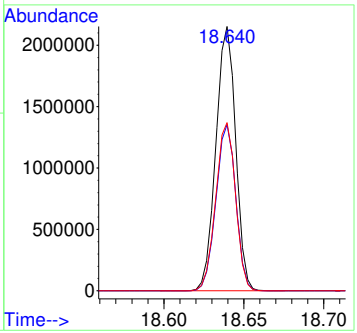


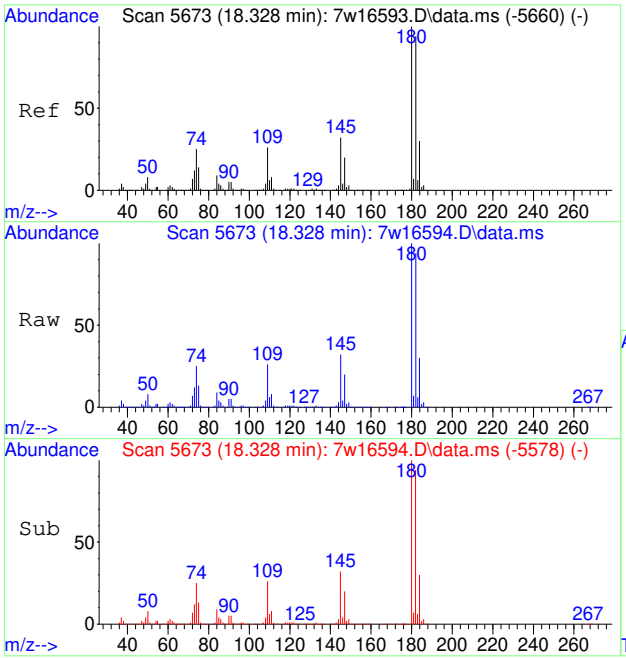


#106
HEXACHLOROBUTADIENE
Concen: 78.27 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:225 Resp: 1851997

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.6	82.8
223	63.8	44.6	82.8

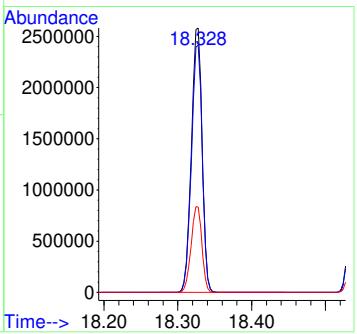


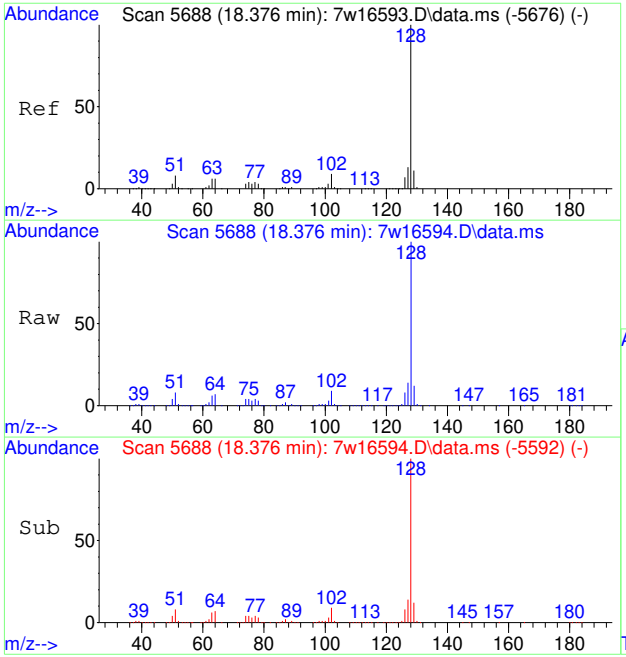


#107
1,2,4-TRICHLOROBENZENE
Concen: 93.58 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:180 Resp: 2599589

Ion	Ratio	Lower	Upper
180	100		
182	94.0	66.6	123.6
145	32.6	22.5	41.9

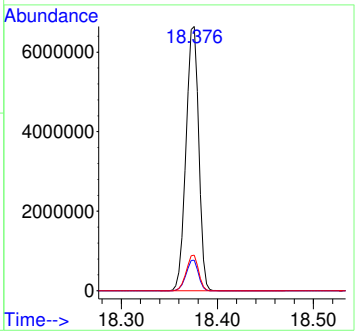


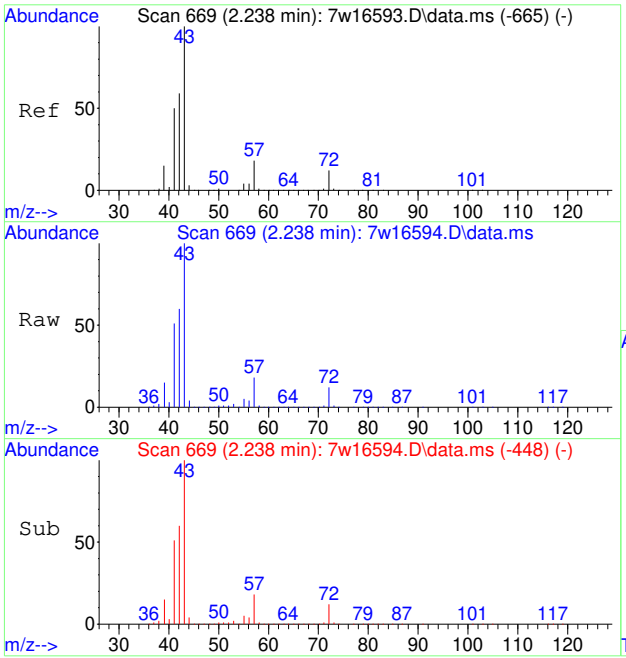


#108
NAPHTHALENE
Concen: 98.65 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:128 Resp: 6111699

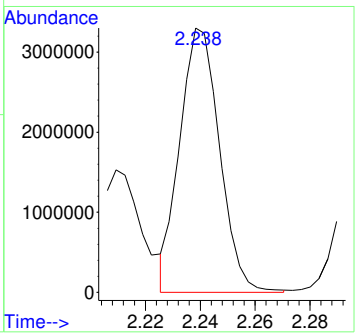
Ion	Ratio	Lower	Upper
128	100		
129	11.3	7.5	13.9
127	13.1	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 53.84 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:TIC Resp: 3312203



Manual Integration Approval Summary

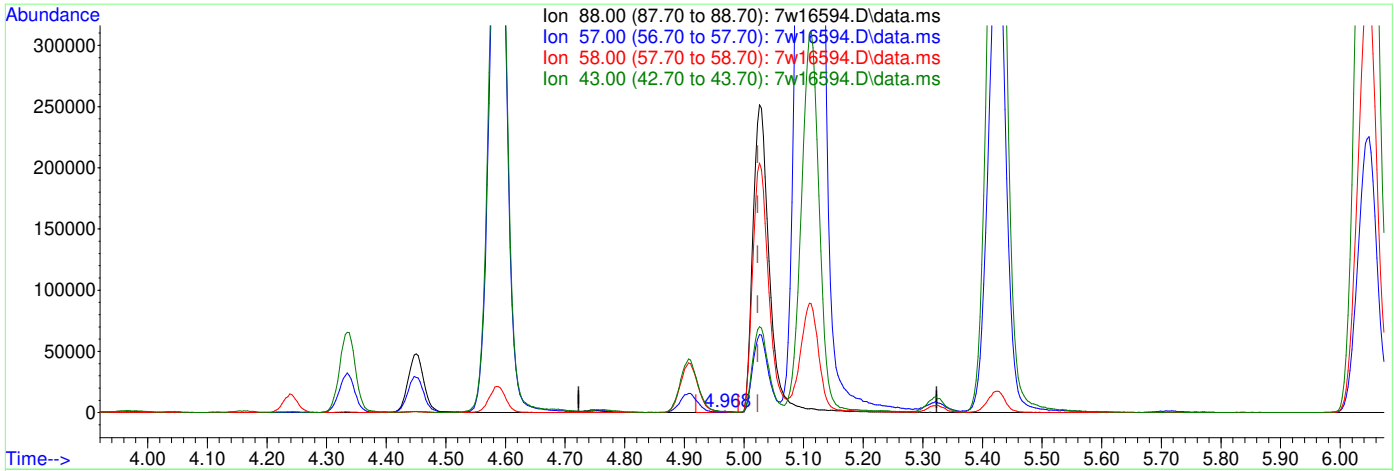
Sample Number: V7W577-IC577
Lab FileID: 7W16594.D
Injection Time: 08/07/25 16:02
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

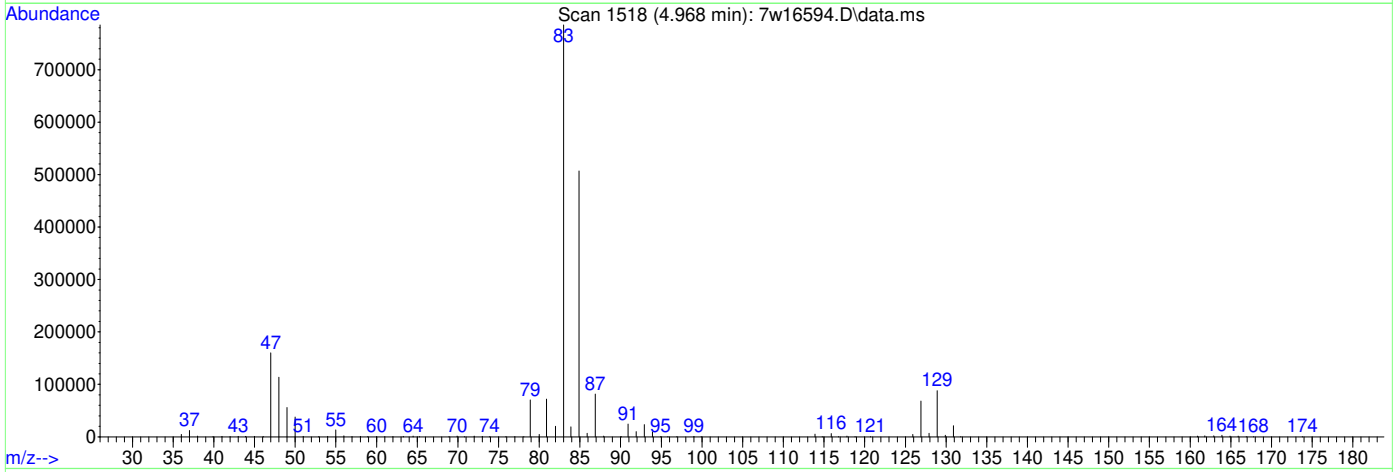
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.03	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

4.968min (-0.055) 0.23PPBV

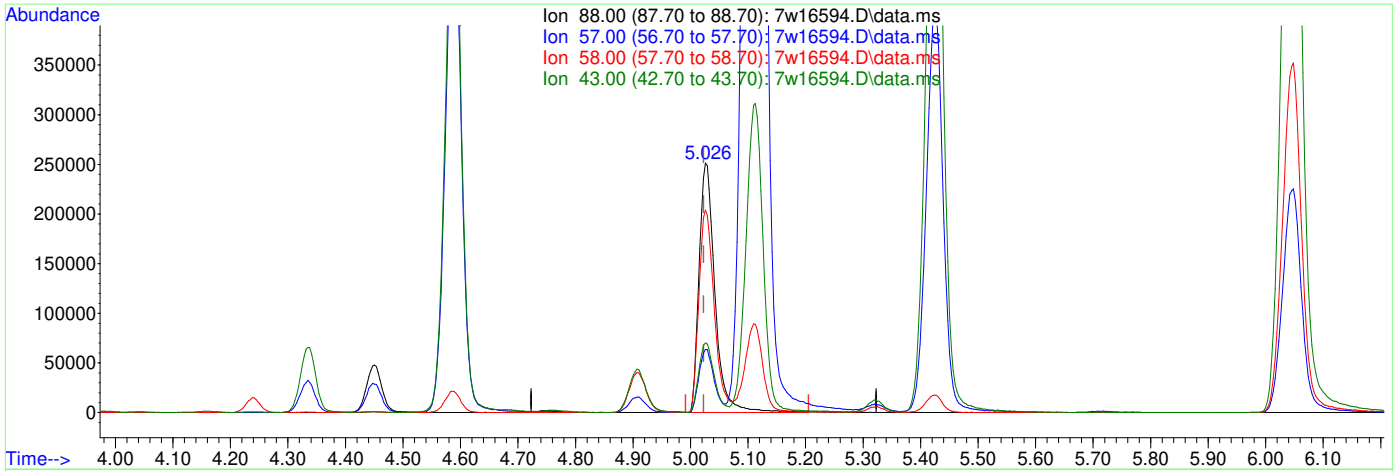
response 1814

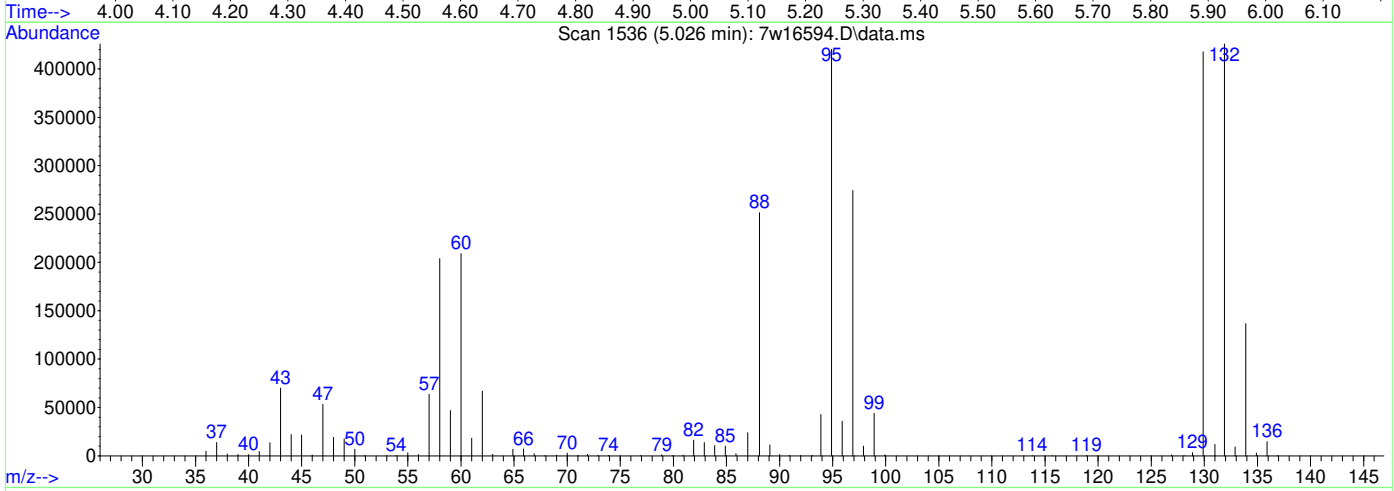
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

5.026min (+0.003) 61.98PPBV m

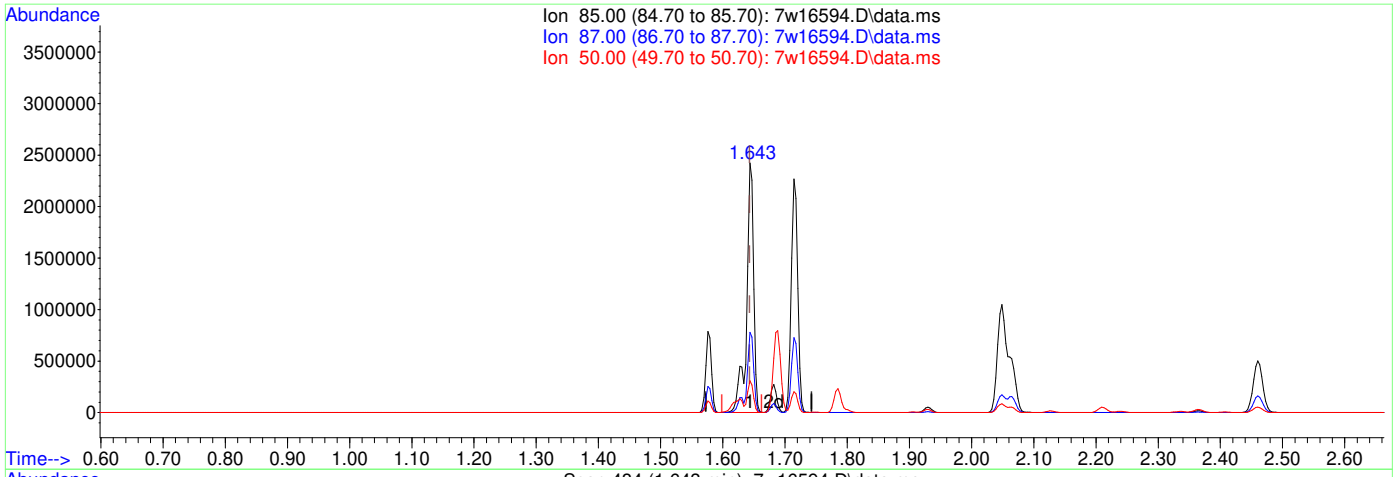
response 483214

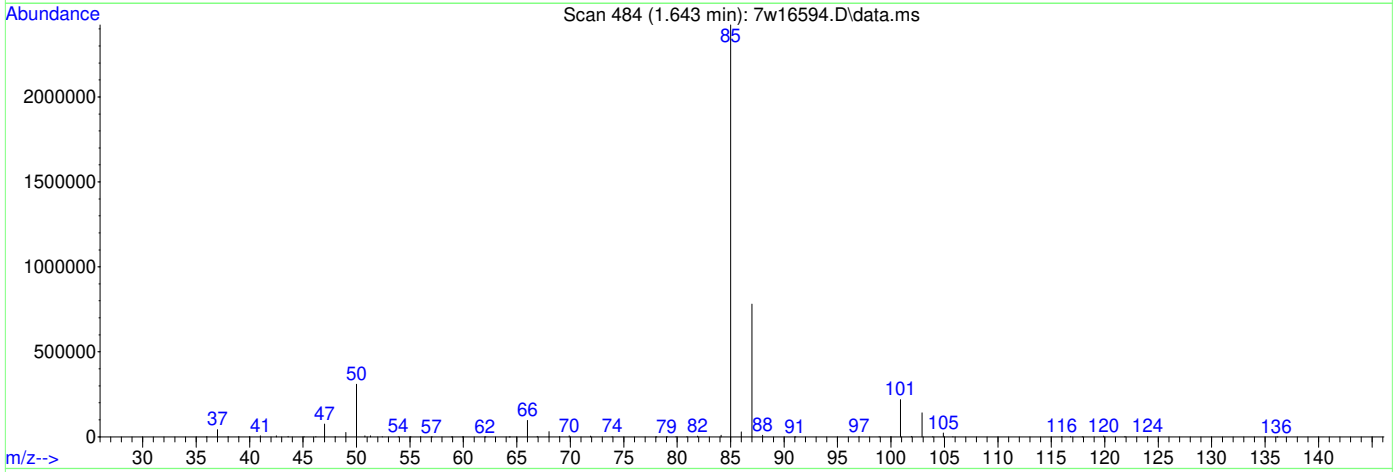
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 62.42PPBV

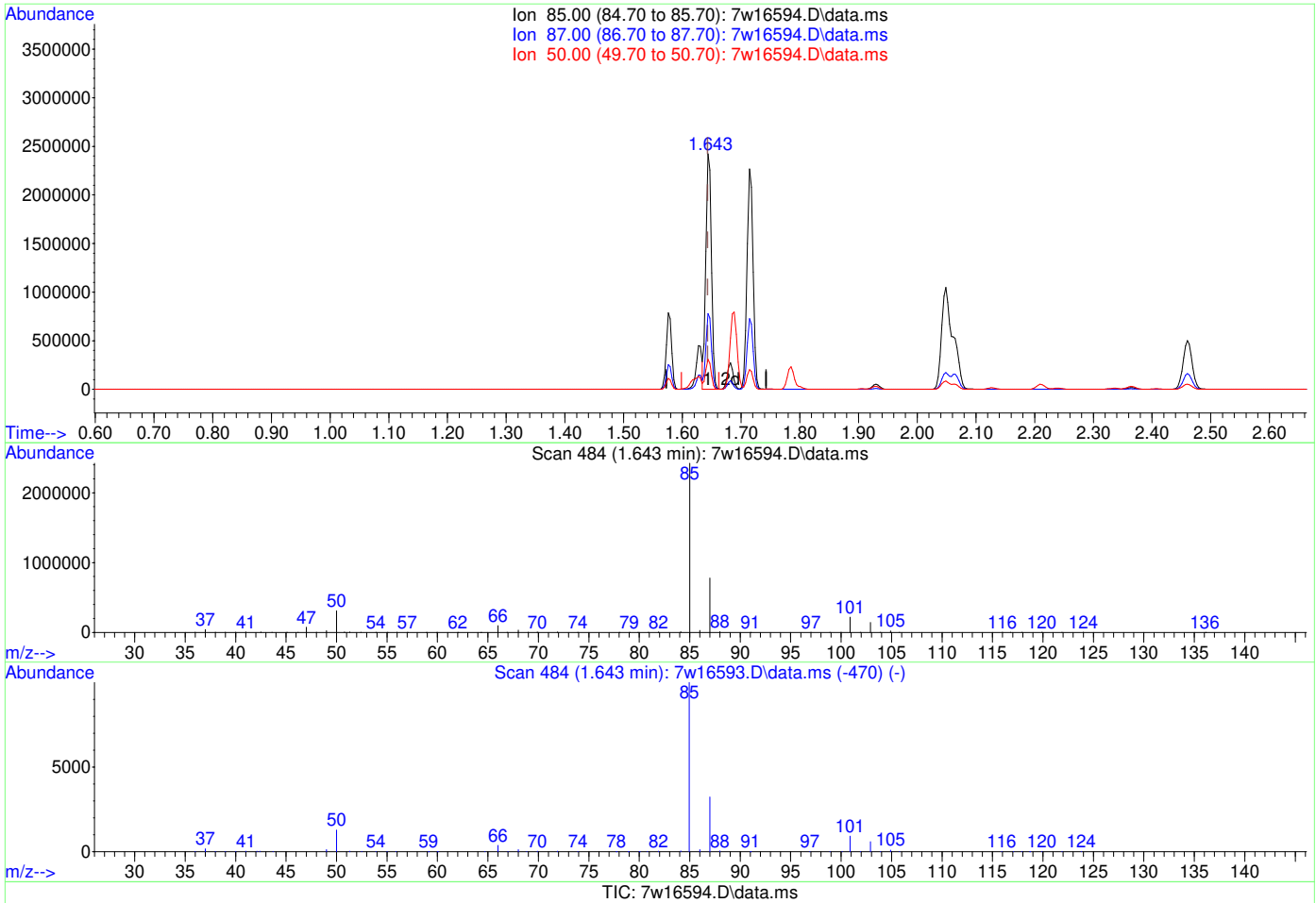
response 1902131

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.33
50.00	19.30	18.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration



TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 52.05PPBV m

response 1586079

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	22.28
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	108383	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	546930	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	500783	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	108383	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	408741	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	140448	10.68	PPBV		100
3) FREON 152A	1.608	65	69502	10.25	PPBV		99
4) CHLORODIFLUOROMETHANE	1.618	67	32765	11.13	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	152723	10.78	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	300519m	11.58	PPBV		
7) PROPYLENE	1.628	41	90576	10.32	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	252062	10.91	PPBV		100
9) FREON 114	1.718	85	303615	11.35	PPBV		100
10) CHLOROMETHANE	1.689	52	40254	10.81	PPBV		98
11) VINYL CHLORIDE	1.750	62	140045	10.62	PPBV		99
12) 1,3-BUTADIENE	1.785	54	109649	10.53	PPBV		99
13) N-BUTANE	1.801	43	194903	11.06	PPBV		100
14) BROMOMETHANE	1.859	94	110308	10.79	PPBV		99
15) CHLOROETHANE	1.907	64	72483	10.13	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	268652	10.84	PPBV		99
17) ACETONITRILE	1.997	41	115239	9.36	PPBV		99
18) ACROLEIN	2.036	56	62655	10.71	PPBV		98
19) FREON 123	2.049	83	270679	10.84	PPBV		99
20) FREON 123A	2.065	117	148778	10.06	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.129	101	311135	11.04	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	290247	12.15	PPBV		99
23) ACETONE	2.071	58	70408	10.78	PPBV		100
24) PENTANE	2.242	42	134988	10.43	PPBV		100
25) IODOMETHANE	2.303	142	287484	11.08	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	117061	10.89	PPBV		99
27) CARBON DISULFIDE	2.464	76	316603	10.38	PPBV		98
28) ETHANOL	1.933	45	64897	10.20	PPBV		100
29) BROMOETHENE	2.004	106	107141	10.44	PPBV		99
30) ACRYLONITRILE	2.209	52	100564	10.95	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	108156	10.27	PPBV		97
32) 3-CHLOROPROPENE	2.409	76	60492	10.52	PPBV		99
33) FREON 113	2.460	151	185131	11.44	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	2.689	96	122177	10.33	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.338	59	321878	10.78	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	372091	11.06	PPBV		100
37) TETRAHYDROFURAN	3.467	72	61873	11.34	PPBV		99
38) HEXANE	3.242	57	241359	10.65	PPBV		100
39) VINYL ACETATE	2.827	86	34923	10.80	PPBV		97
40) 1,1-DICHLOROETHANE	2.759	63	247364	10.82	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	65125	10.54	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	133909	10.92	PPBV		100
43) DIISOPROPYL ETHER	3.245	59	71425	11.12	PPBV		96
44) ETHYL ACETATE	3.248	61	46105	10.62	PPBV		90
45) METHYL ACRYLATE	3.235	55	298658	10.90	PPBV	#	100
46) CHLOROFORM	3.261	83	268569	11.35	PPBV		100
47) 2,4-DIMETHYLPENTANE	3.743	57	287870	11.35	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279200	11.20	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	286618	11.10	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	205457	11.17	PPBV	100
51)	BENZENE	4.126	78	392045	10.80	PPBV	100
53)	CYCLOHEXANE	4.335	84	178042	11.13	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.586	71	92136	11.55	PPBV	99
55)	TRICHLOROETHENE	5.013	95	177553	10.41	PPBV	100
56)	1,2-DICHLOROPROPANE	4.782	63	163448	10.84	PPBV	100
57)	DIBROMOMETHANE	4.743	174	150387	10.35	PPBV	99
58)	ETHYL ACRYLATE	4.901	55	376913	11.17	PPBV	99
59)	BROMODICHLOROMETHANE	4.962	83	300258	10.90	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	770282	10.43	PPBV	100
61)	1,4-DIOXANE	5.023	88	94601	11.72	PPBV	98
62)	HEPTANE	5.422	43	261506	10.72	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	152007	11.09	PPBV	99
64)	METHYL ISOBUTYL KETONE	6.039	58	154590	10.57	PPBV	100
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	233811	10.11	PPBV	100
66)	TOLUENE	7.132	91	488543	11.25	PPBV	99
67)	1,3-DICHLOROPROPANE	7.190	76	246988	11.34	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	217661	10.42	PPBV	100
69)	1,1,2-TRICHLOROETHANE	6.766	83	141620	11.44	PPBV	99
70)	2-HEXANONE	7.695	58	209349	10.26	PPBV	99
71)	ETHYL METHACRYLATE	7.830	69	256728	11.23	PPBV	99
72)	TETRACHLOROETHENE	8.846	164	180607	11.40	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.656	129	297263	11.82	PPBV	99
74)	1,2-DIBROMOETHANE	8.000	107	263017	11.75	PPBV	100
75)	OCTANE	8.994	43	371823	11.38	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	217186	12.09	PPBV	100
78)	CHLOROBENZENE	10.042	112	397219	11.61	PPBV	100
79)	ETHYLBENZENE	10.923	91	659125	11.76	PPBV	100
80)	M,P-XYLENE	11.347	91	1021629	22.50	PPBV	99
81)	O-XYLENE	12.280	91	524115	11.89	PPBV	100
82)	STYRENE	12.068	104	383070	11.59	PPBV	100
83)	NONANE	13.402	43	389550	11.35	PPBV	100
84)	BROMOFORM	11.158	173	265221	12.55	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	376337	11.92	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	296228	11.97	PPBV	100
88)	ISOPROPYLBENZENE	13.788	120	196063	11.70	PPBV	100
89)	BROMOBENZENE	13.653	77	368714	11.46	PPBV	99
90)	2-CHLOROTOLUENE	14.785	126	175998	11.26	PPBV	100
91)	N-PROPYLBENZENE	15.122	120	204116	11.48	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	742534	11.28	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	622476	11.36	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.174	118	271625	10.00	PPBV	99
95)	TERT-BUTYLBENZENE	16.498	134	152633	11.43	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	633879	11.67	PPBV	99
97)	BENZYL CHLORIDE	16.598	91	464197	10.58	PPBV	99
98)	M-DICHLOROBENZENE	16.569	146	406824	10.91	PPBV	100
99)	P-DICHLOROBENZENE	16.666	146	408776	11.12	PPBV	100
100)	O-DICHLOROBENZENE	16.987	146	388114	11.22	PPBV	100
101)	SEC-BUTYLBENZENE	16.813	134	187876	11.81	PPBV	100
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	621174	11.41	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.013	134	206409	11.68	PPBV	100
104)	N-BUTYLBENZENE	17.379	134	197029	11.69	PPBV	100
105)	HEXACHLOROETHANE	17.559	117	224249	10.80	PPBV	100
106)	HEXACHLOROBUTADIENE	18.633	225	277087	11.26	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.315	180	362853	12.29	PPBV	100
108)	NAPHTHALENE	18.363	128	837609	12.65	PPBV	99
110)	TVHC as equiv Pentane	2.242	TIC	634578	10.37	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

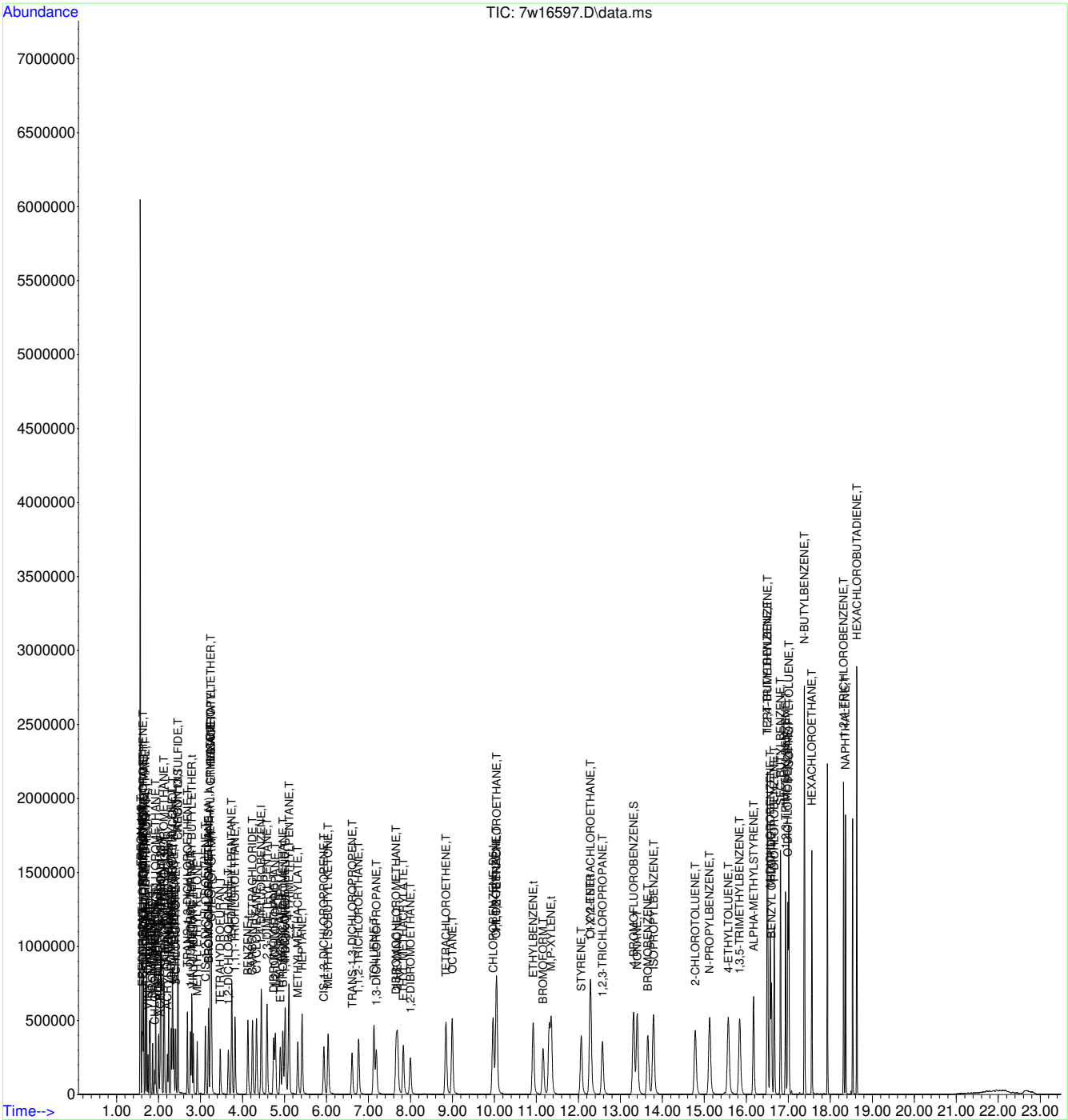
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

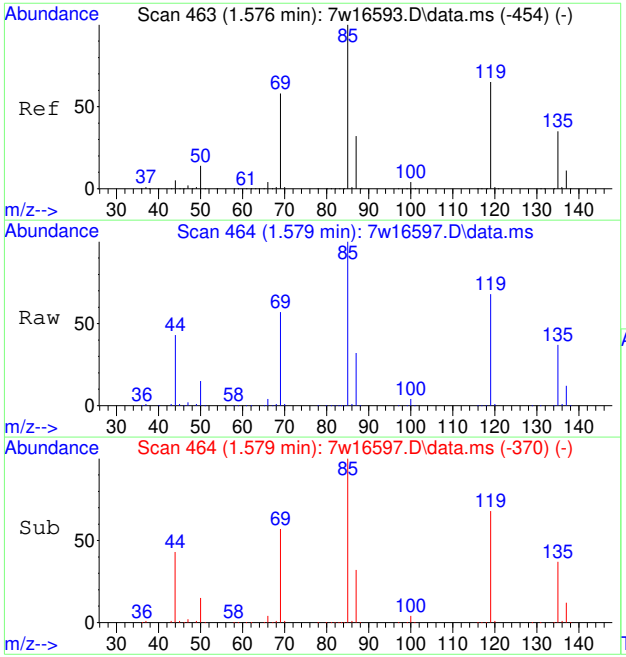
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

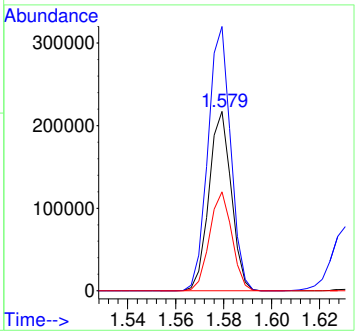


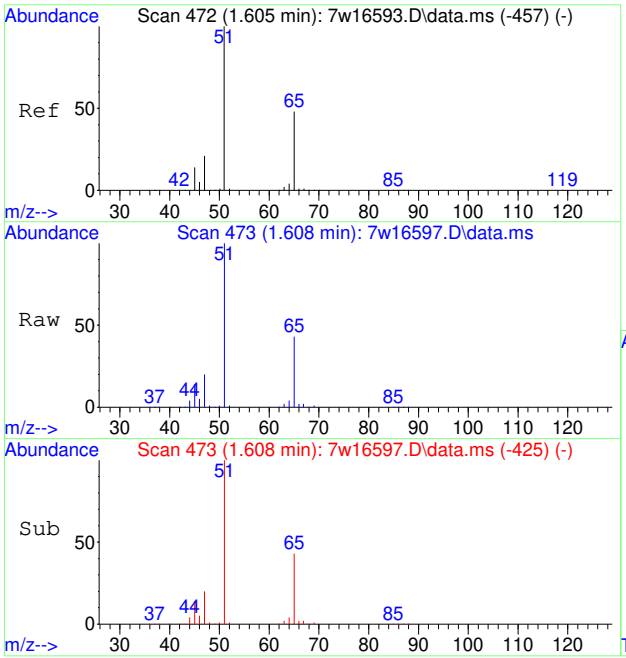


#2
FREON 115
Concen: 10.68 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:119 Resp: 140448

Ion	Ratio	Lower	Upper
119	100		
85	149.3	104.4	193.8
135	55.3	38.6	71.8

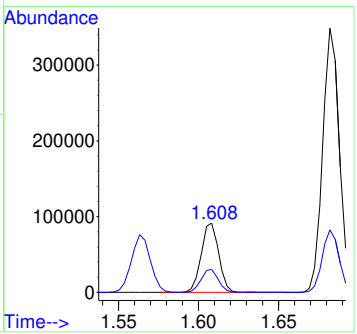


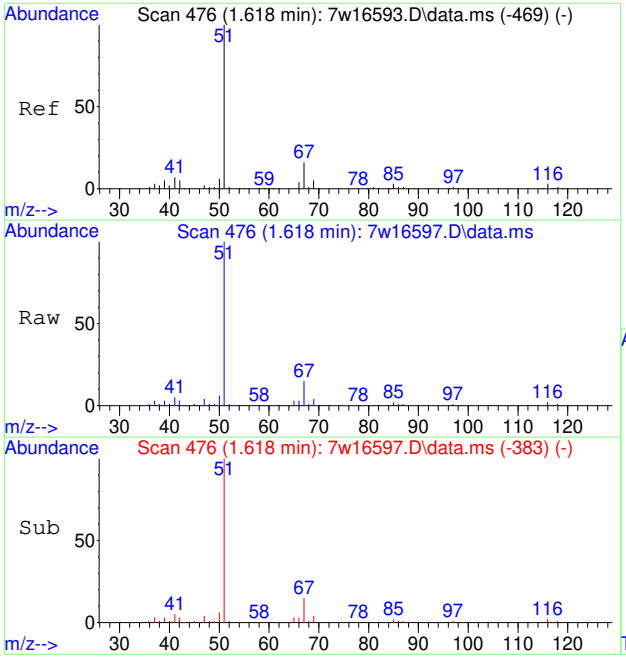


#3
FREON 152A
Concen: 10.25 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 69502

Ion	Ratio	Lower	Upper
65	100		
45	32.5	23.0	42.8

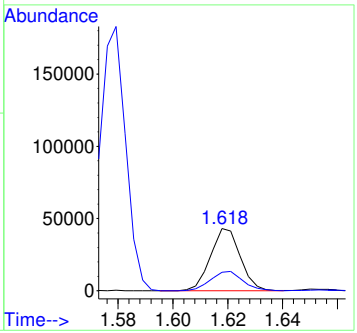


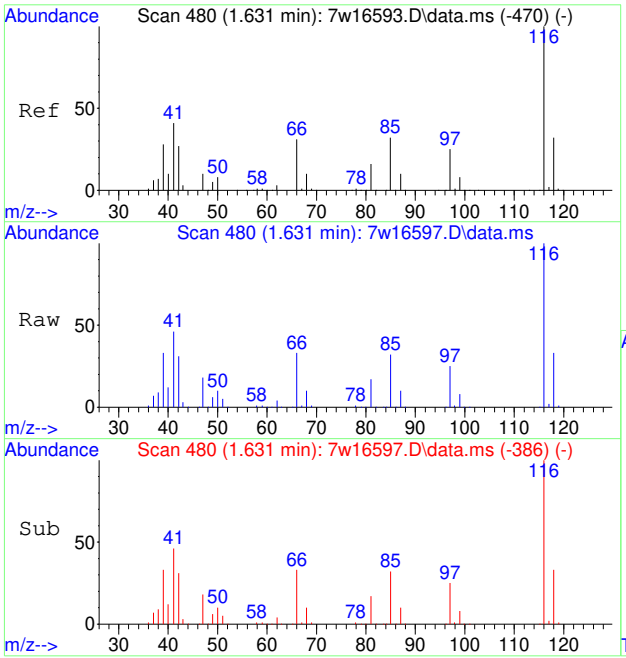


#4
CHLORODIFLUOROMETHANE
Concen: 11.13 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 32765

Ion	Ratio	Lower	Upper
67	100		
69	33.8	25.3	47.1

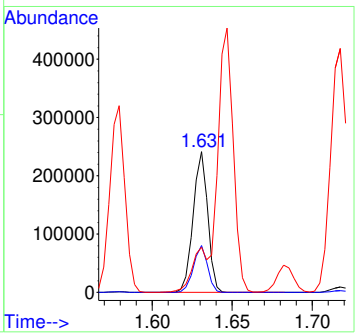


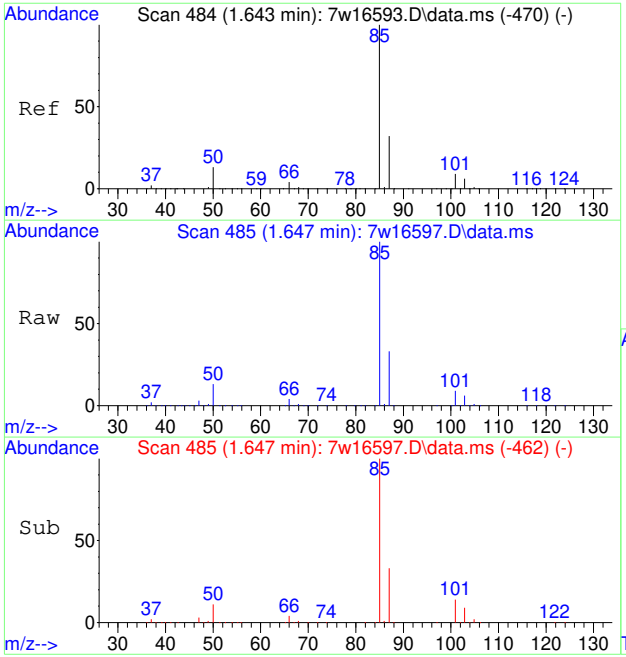


#5
CHLOROTRIFLUOROETHENE
Concen: 10.78 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:116 Resp: 152723

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	229.5	152.4	283.0

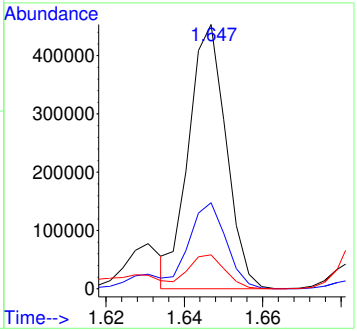


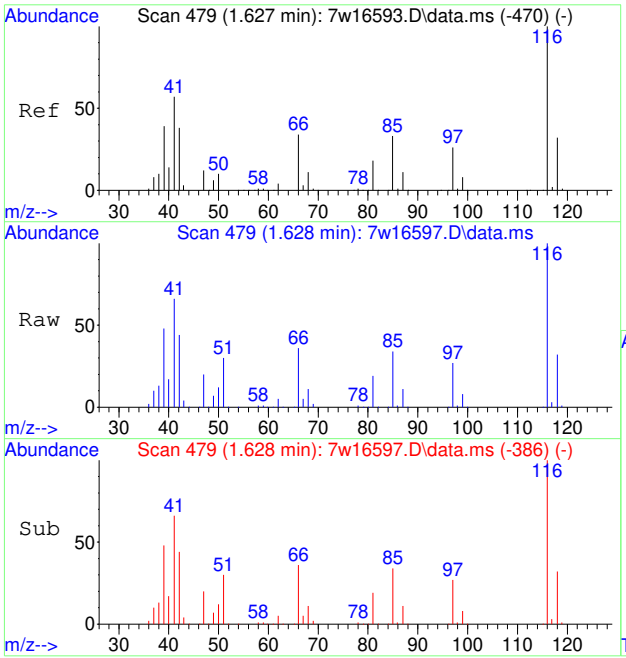


#6
DICHLORODIFLUOROMETHANE
Concen: 11.58 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 300519

Ion	Ratio	Lower	Upper
85	100		
87	37.8	23.0	42.6
50	21.9	13.5	25.1

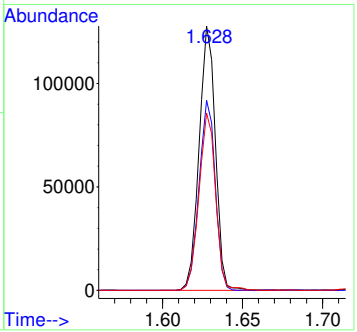


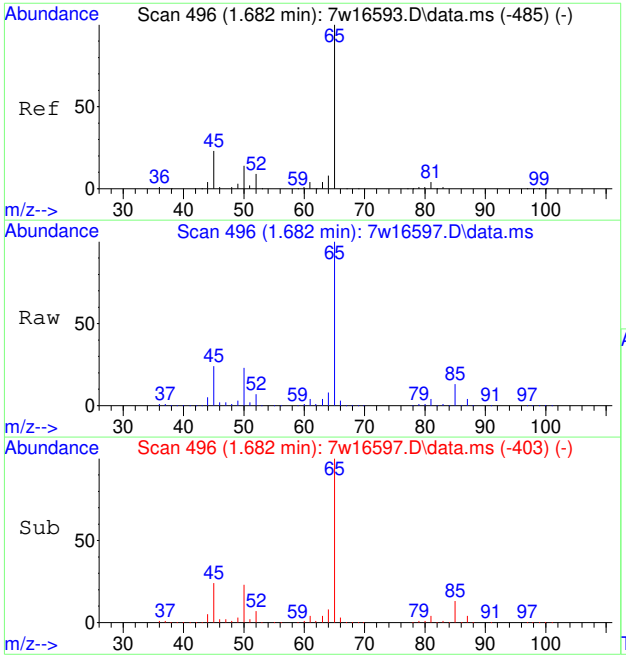


#7
PROPYLENE
Concen: 10.32 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 90576

Ion	Ratio	Lower	Upper
41	100		
39	71.5	50.5	93.7
42	68.3	47.0	87.4

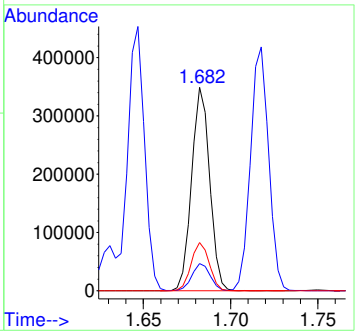


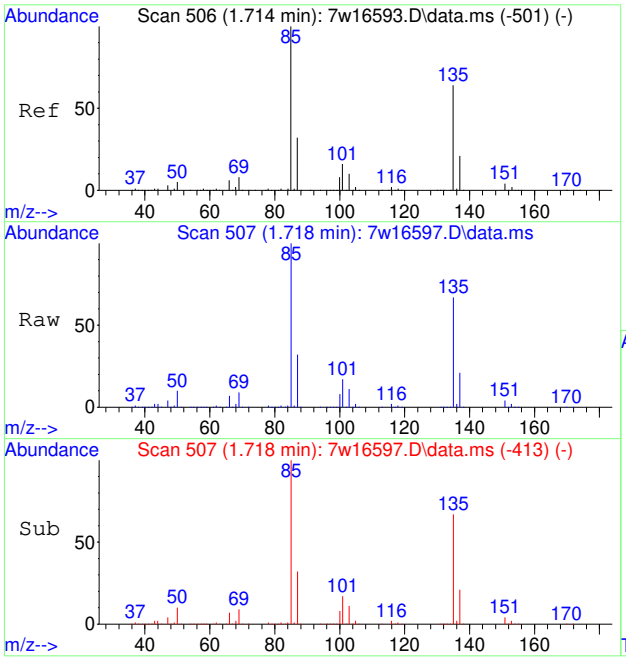


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.91 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 252062

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.4	17.4
45	23.9	16.9	31.3

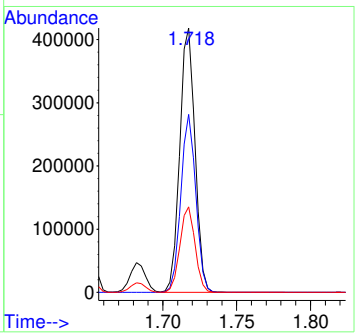


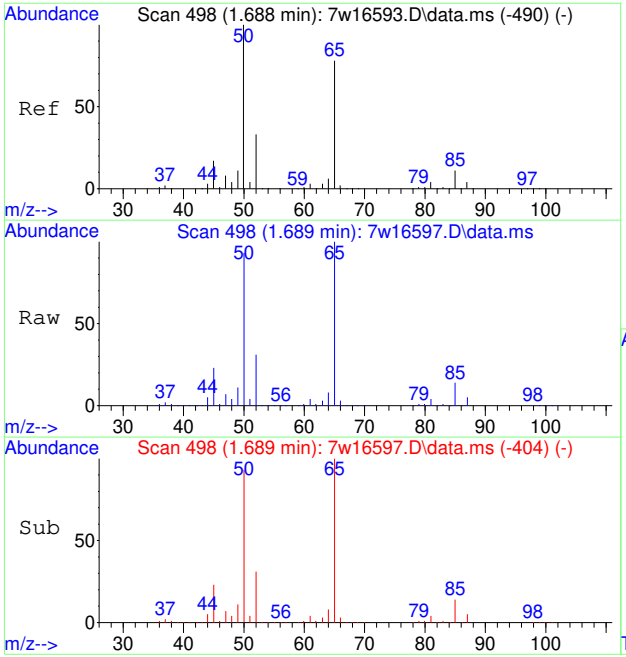


#9
FREON 114
Concen: 11.35 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 303615

Ion	Ratio	Lower	Upper
85	100		
135	66.1	46.1	85.7
87	32.2	22.6	42.0

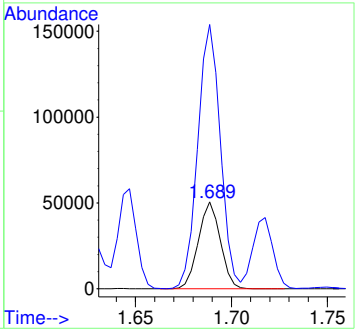


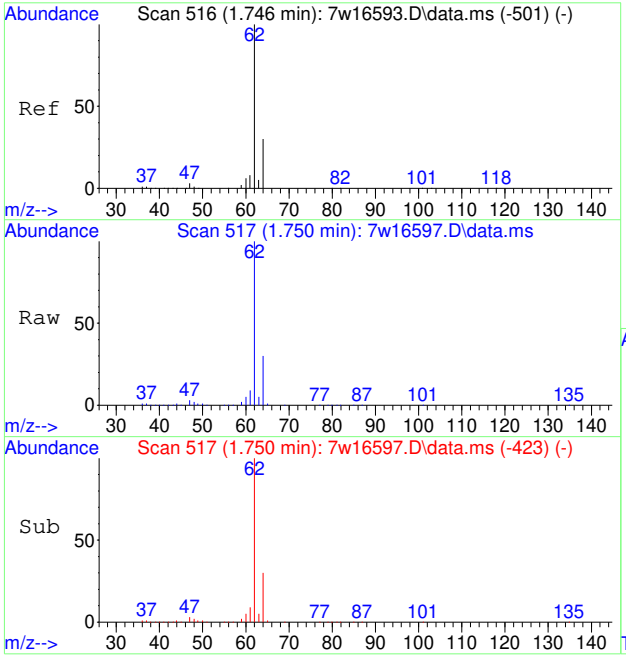


#10
CHLOROMETHANE
Concen: 10.81 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 40254

Ion	Ratio	Lower	Upper
52	100		
50	317.7	225.6	419.0

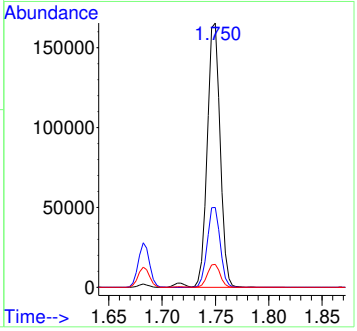


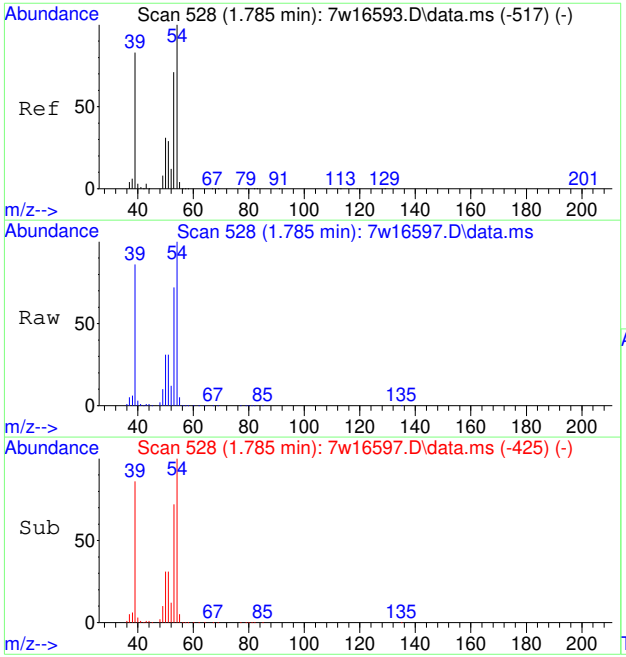


#11
VINYL CHLORIDE
Concen: 10.62 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 140045

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.8	5.7	10.5

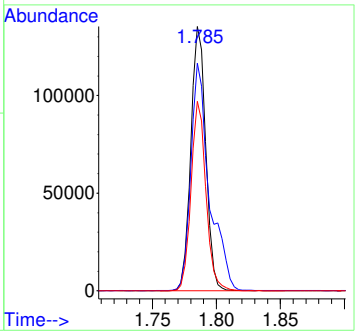


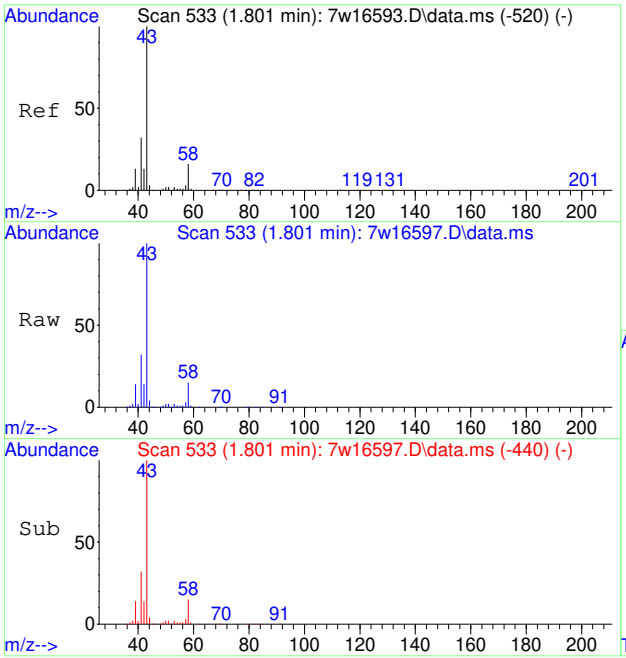


#12
1,3-BUTADIENE
Concen: 10.53 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 54 Resp: 109649

Ion	Ratio	Lower	Upper
54	100		
39	107.1	78.4	138.4
53	71.9	40.9	100.9

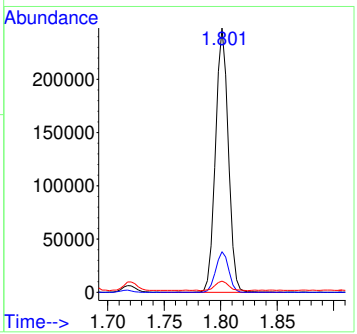


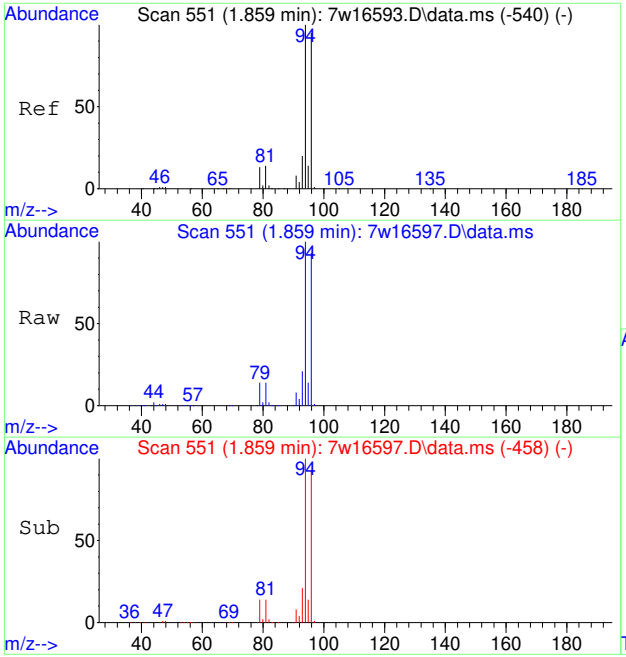


#13
N-BUTANE
Concen: 11.06 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 194903

Ion	Ratio	Lower	Upper
43	100		
58	15.6	11.0	20.4
44	3.8	2.6	4.8

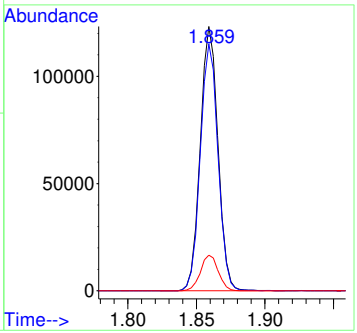


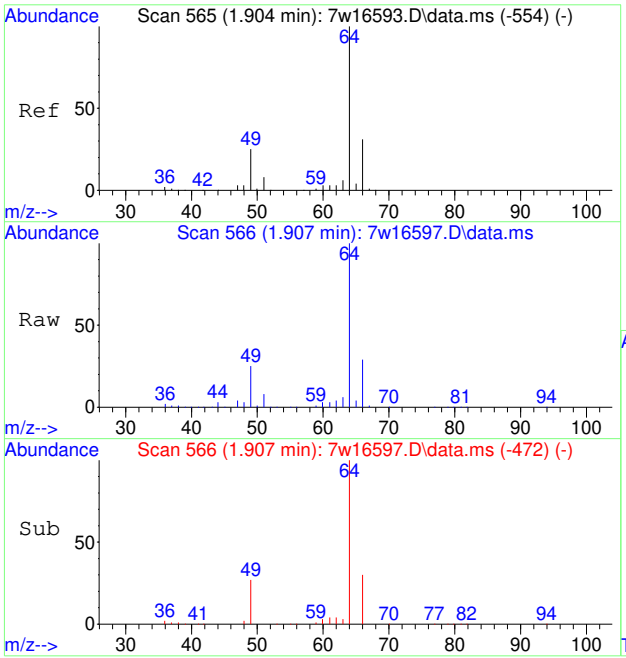


#14
BROMOMETHANE
Concen: 10.79 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 94 Resp: 110308

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.6	9.9	18.3

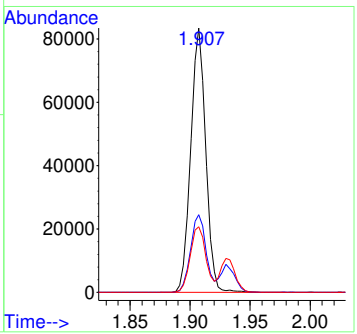


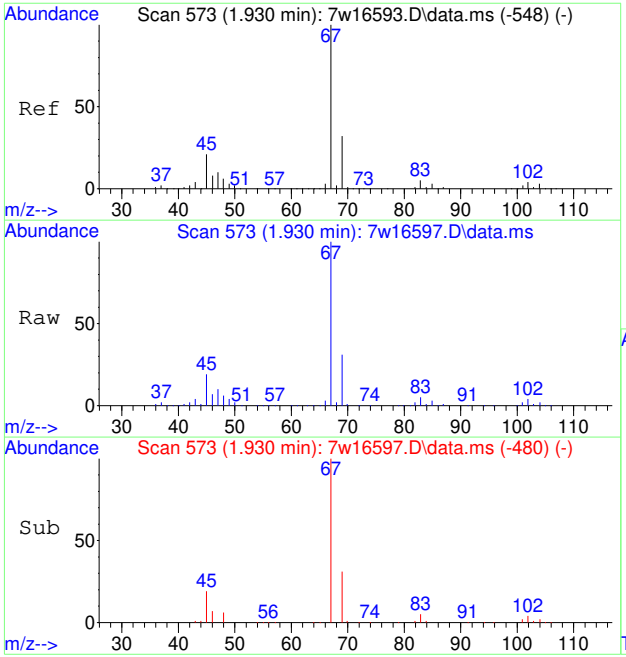


#15
CHLOROETHANE
Concen: 10.13 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 64 Resp: 72483

Ion	Ratio	Lower	Upper
64	100		
66	40.6	21.5	39.9#
49	26.3	19.0	35.4

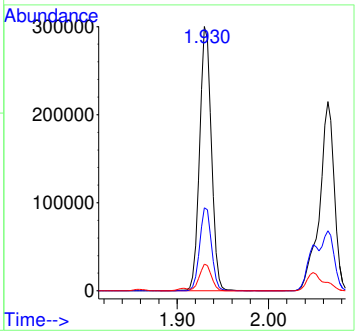


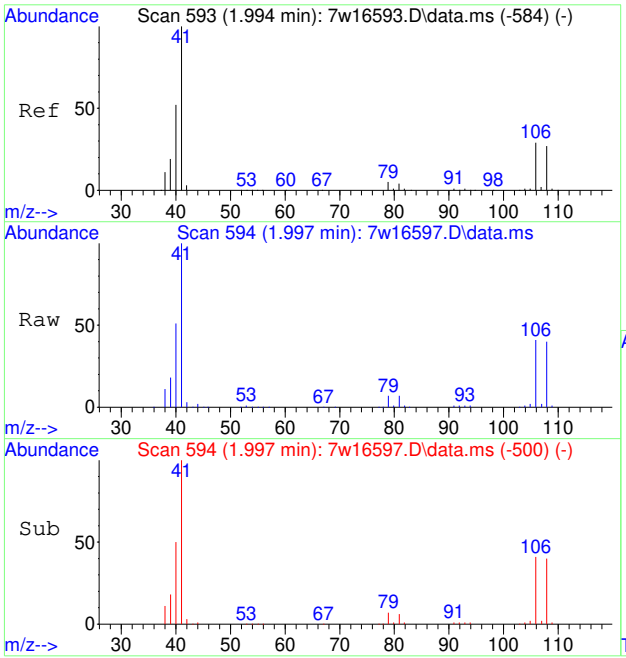


#16
DICHLOROFLUOROMETHANE
Concen: 10.84 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 268652

Ion	Ratio	Lower	Upper
67	100		
69	31.6	21.8	40.6
47	11.1	8.0	14.8

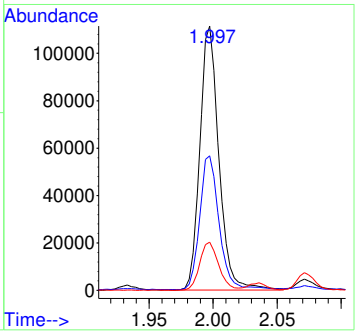


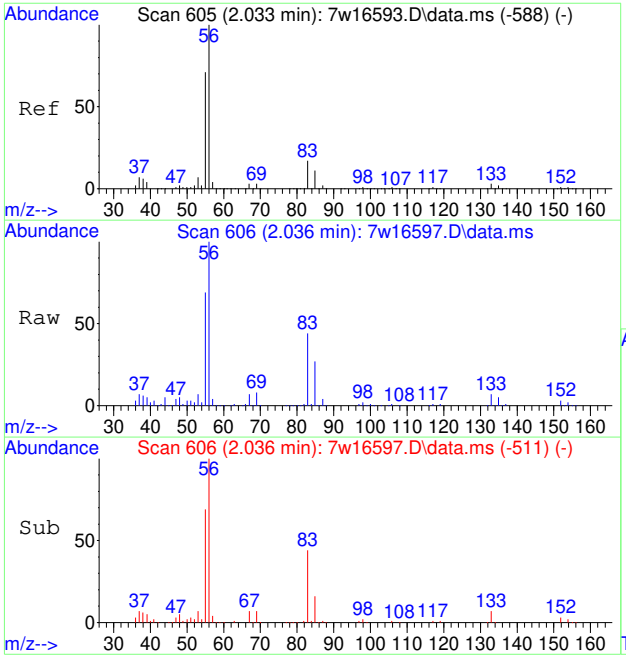


#17
ACETONITRILE
Concen: 9.36 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 115239

Ion	Ratio	Lower	Upper
41	100		
40	51.9	36.7	68.1
39	18.2	13.1	24.3

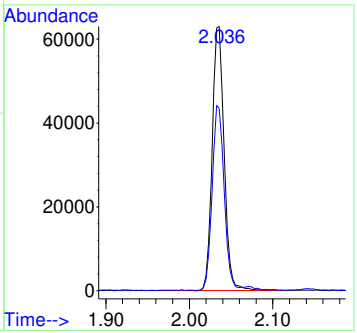


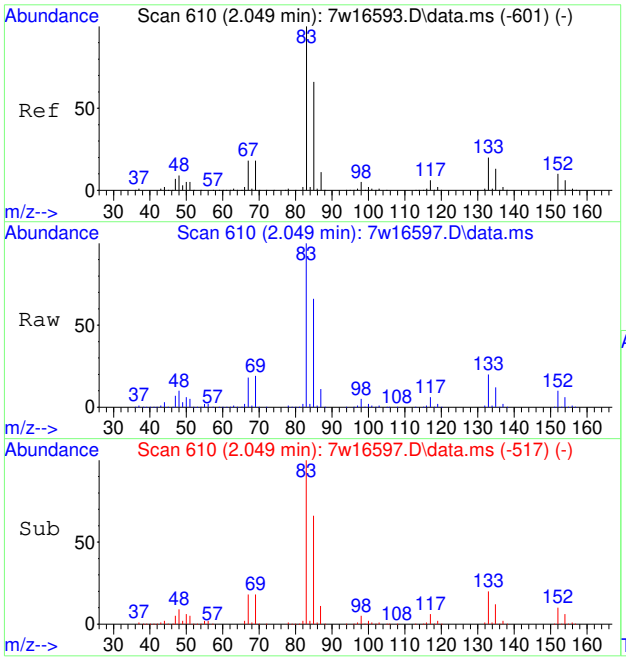


#18
ACROLEIN
Concen: 10.71 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 56 Resp: 62655

Ion	Ratio	Lower	Upper
56	100		
55	71.8	48.9	90.7

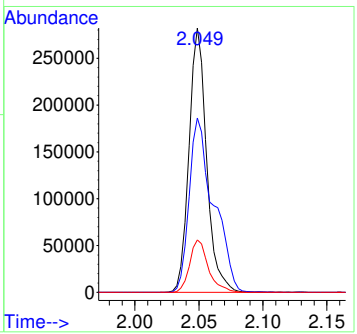


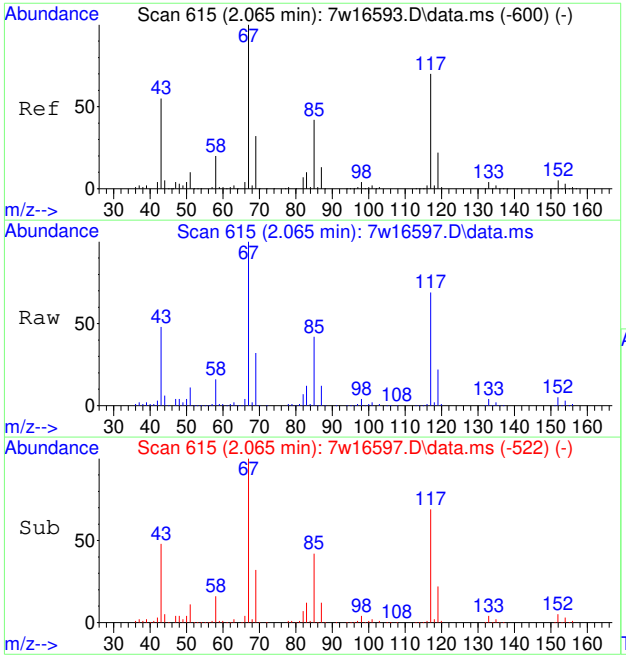


#19
FREON 123
Concen: 10.84 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 270679

Ion	Ratio	Lower	Upper
83	100		
85	91.4	64.9	120.5
133	21.2	14.7	27.3

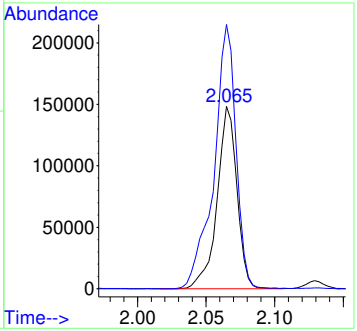


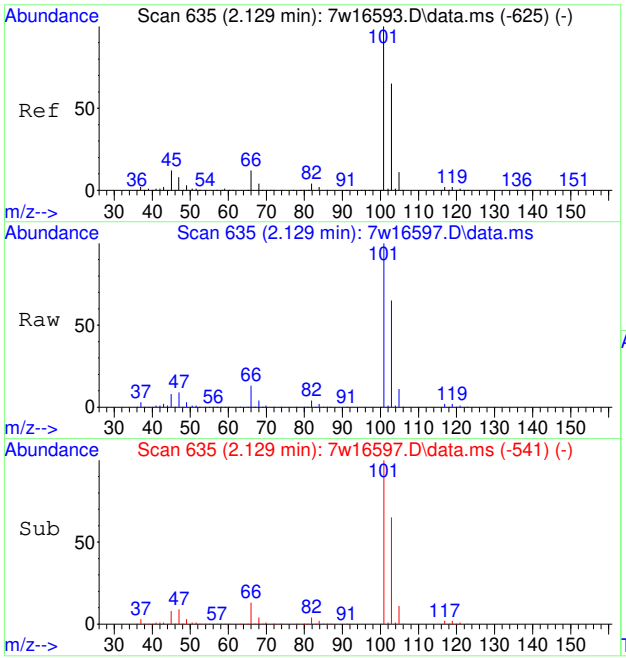


#20
FREON 123A
Concen: 10.06 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 148778

Ion	Ratio	Lower	Upper
117	100		
67	161.4	111.3	206.7

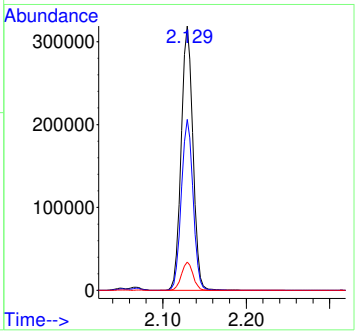


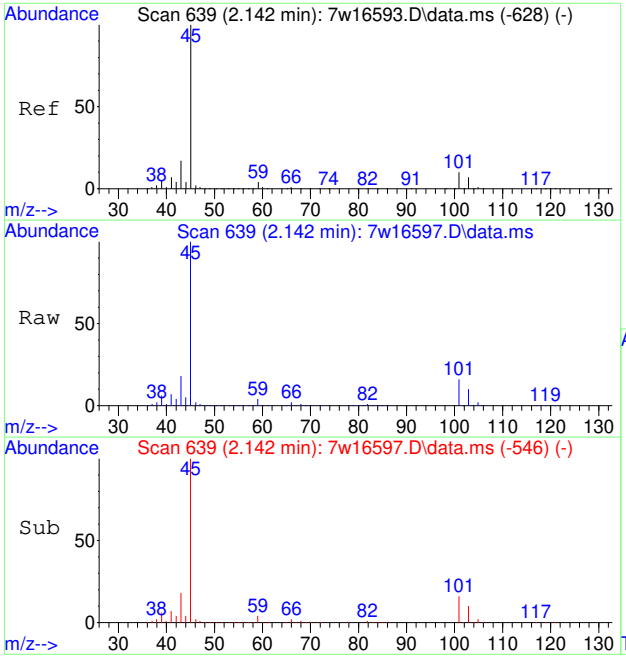


#21
TRICHLOROFLUOROMETHANE
Concen: 11.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:101 Resp: 311135

Ion	Ratio	Lower	Upper
101	100		
103	64.7	45.2	84.0
105	10.6	7.3	13.5

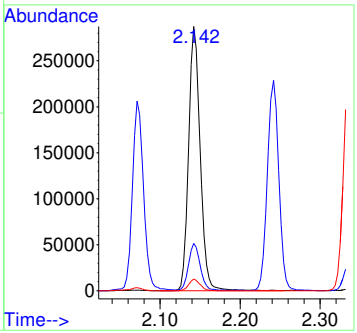


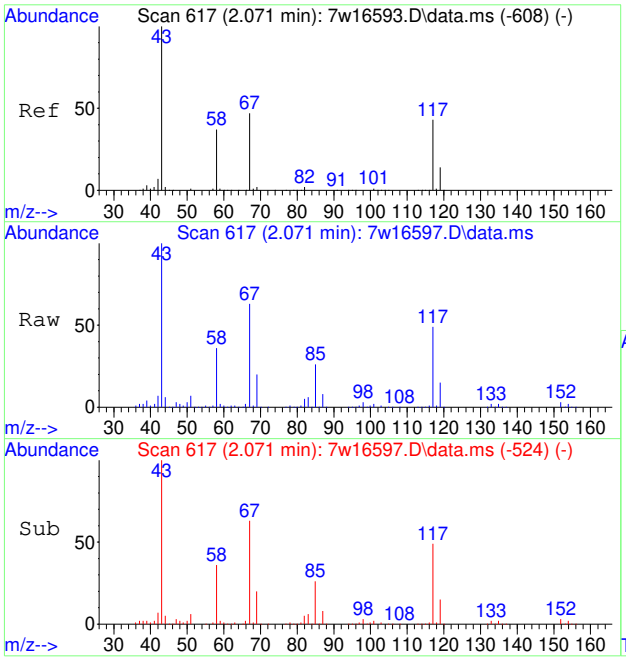


#22
ISOPROPYL ALCOHOL
Concen: 12.15 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 290247

Ion	Ratio	Lower	Upper
45	100		
43	18.3	12.5	23.3
59	4.4	3.1	5.7

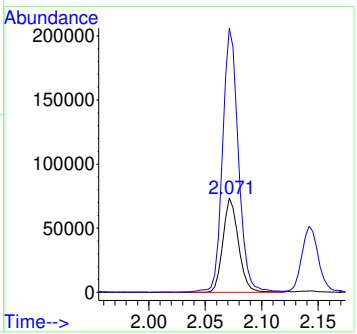


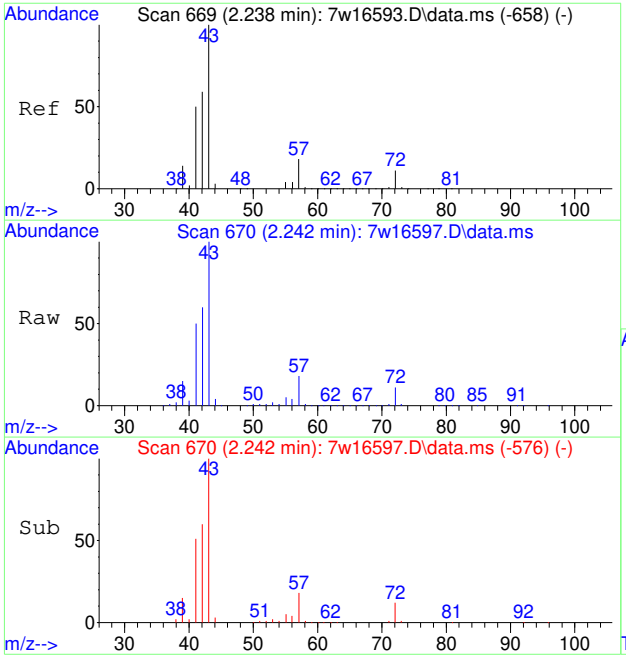


#23
ACETONE
Concen: 10.78 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 70408

Ion	Ratio	Lower	Upper
58	100		
43	284.2	198.6	368.8

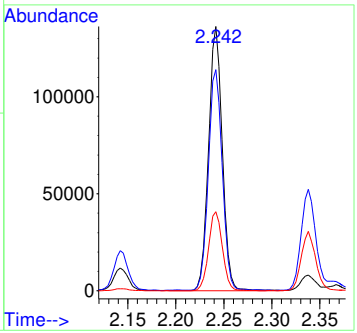


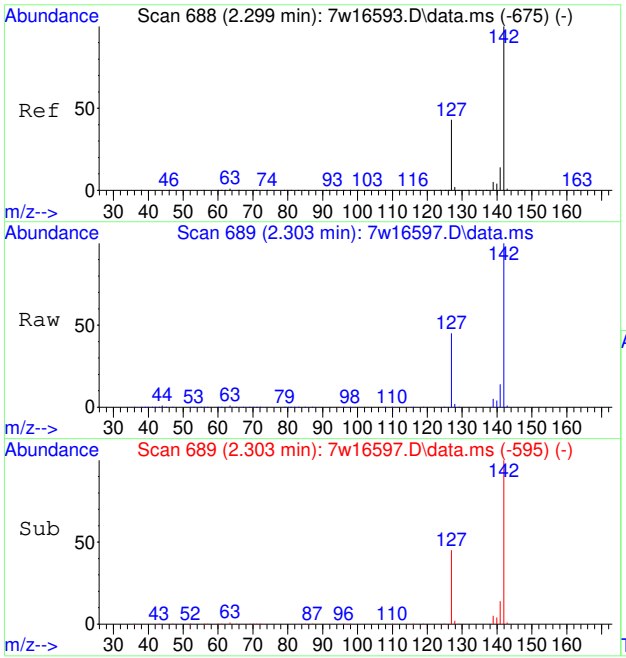


#24
PENTANE
Concen: 10.43 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 42 Resp: 134988

Ion	Ratio	Lower	Upper
42	100		
41	85.4	59.8	111.0
57	30.5	21.1	39.1

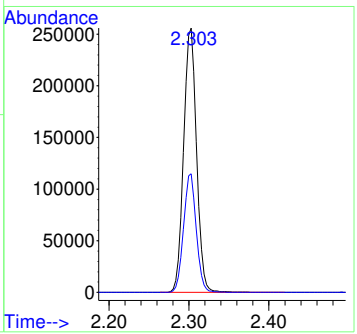


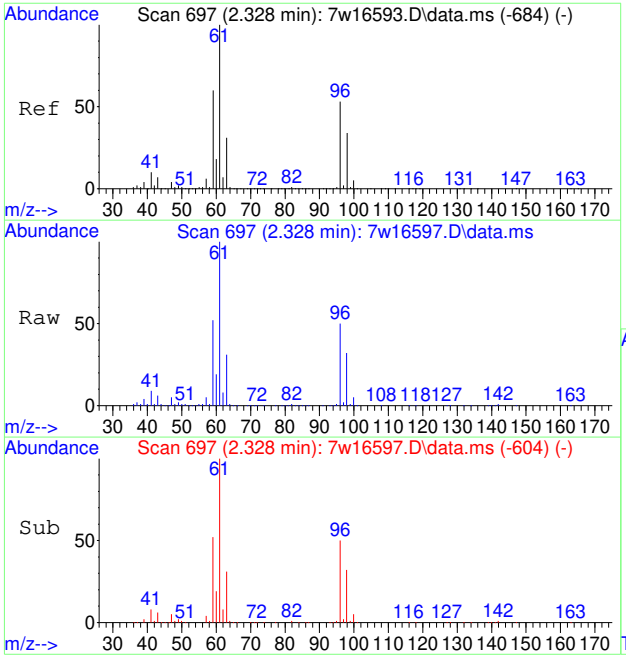


#25
IODOMETHANE
Concen: 11.08 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:142 Resp: 287484

Ion	Ratio	Lower	Upper
142	100		
127	44.2	30.6	56.8

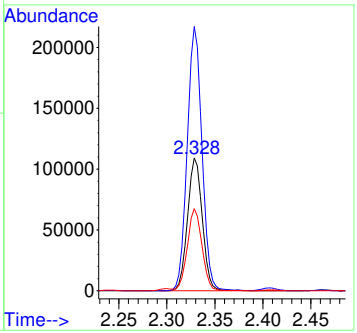


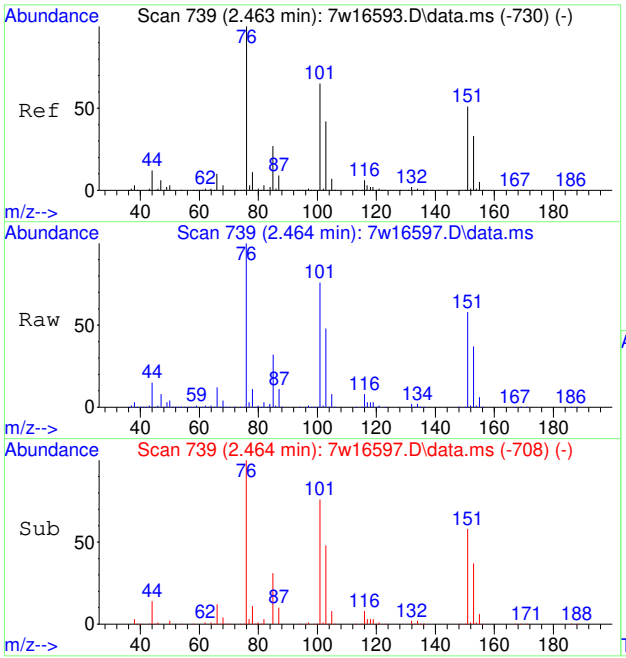


#26
1,1-DICHLOROETHYLENE
Concen: 10.89 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 117061

Ion	Ratio	Lower	Upper
96	100		
61	198.6	138.3	256.8
63	62.7	44.2	82.0

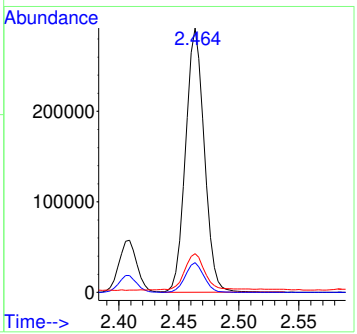


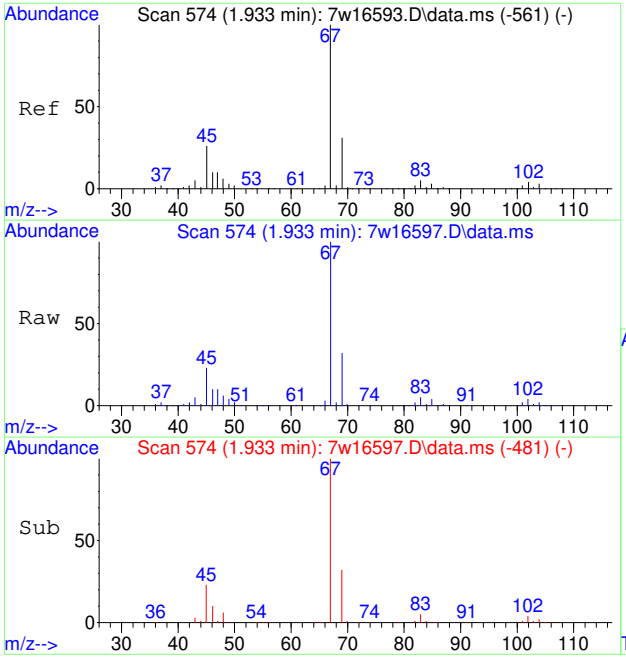


#27
CARBON DISULFIDE
Concen: 10.38 PPBV
RT: 2.464 min Scan# 739
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 316603

Ion	Ratio	Lower	Upper
76	100		
78	11.2	7.7	14.3
44	15.7	10.2	19.0

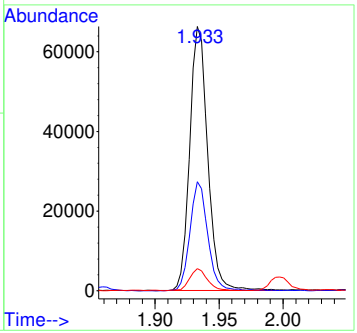


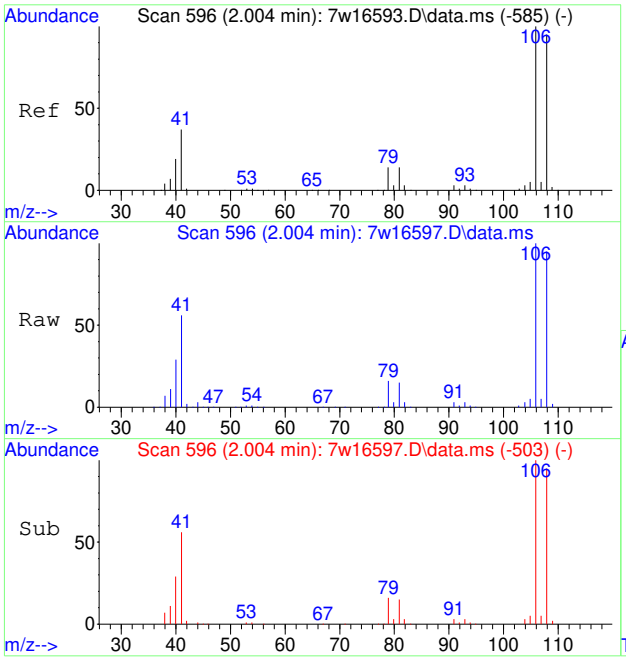


#28
ETHANOL
Concen: 10.20 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 64897

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.0	53.9
42	8.0	5.7	10.5

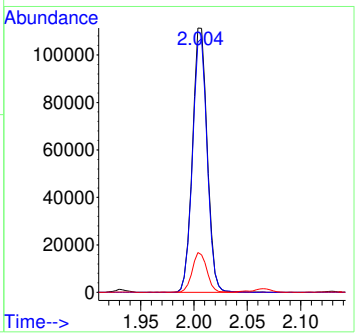


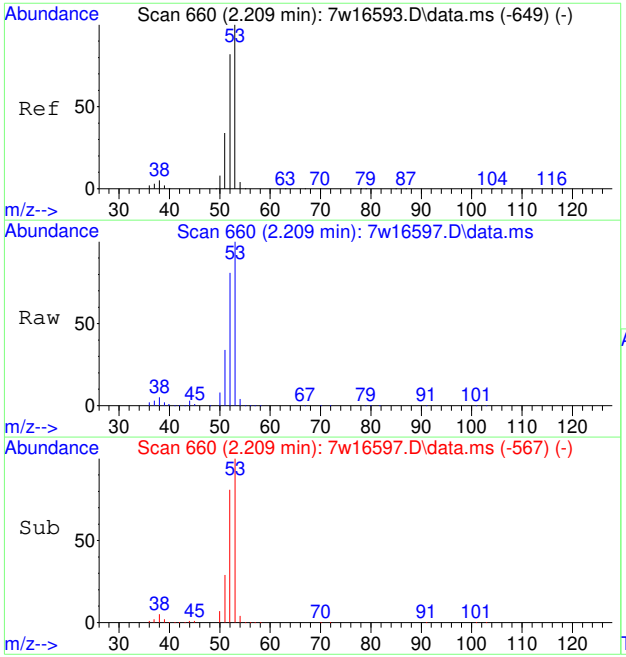


#29
BROMOETHENE
Concen: 10.44 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:106 Resp: 107141

Ion	Ratio	Lower	Upper
106	100		
108	95.8	66.1	122.7
81	15.1	10.6	19.8

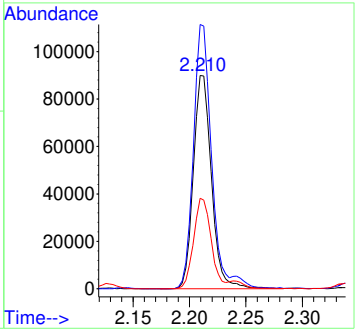


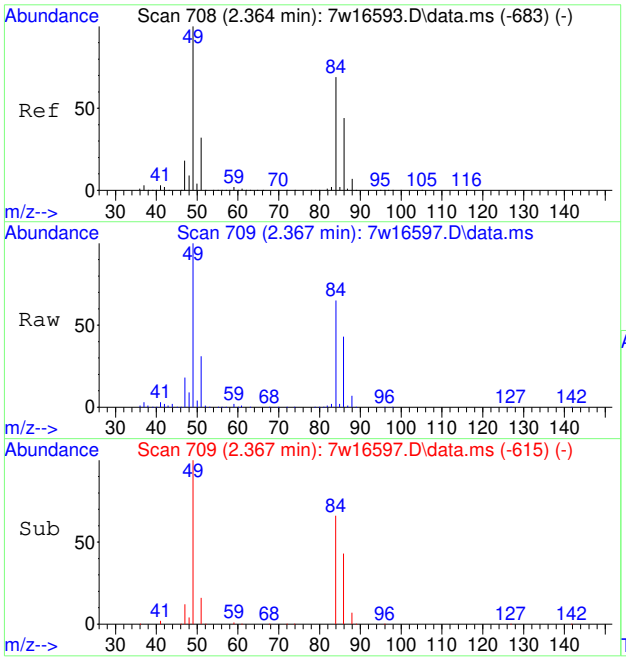


#30
ACRYLONITRILE
Concen: 10.95 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 100564

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.5	31.3	58.1

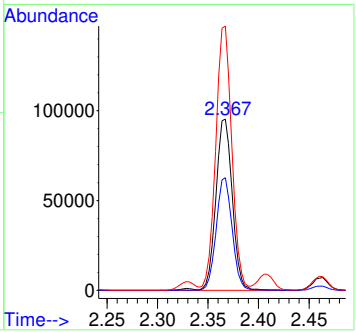


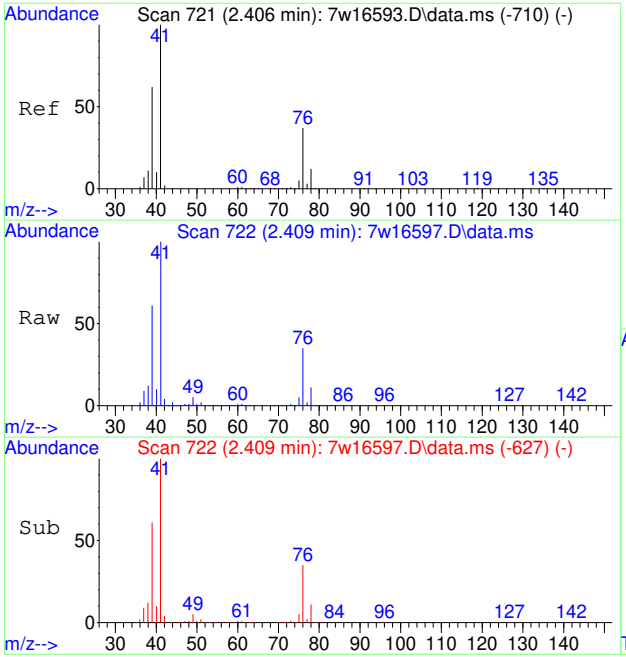


#31
METHYLENE CHLORIDE
Concen: 10.27 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 108156

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.3	82.3
49	150.9	109.5	203.3

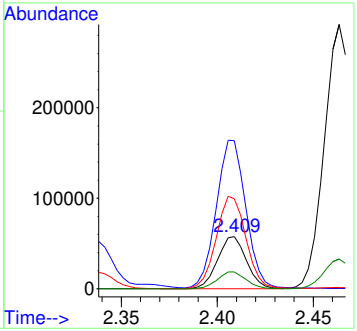


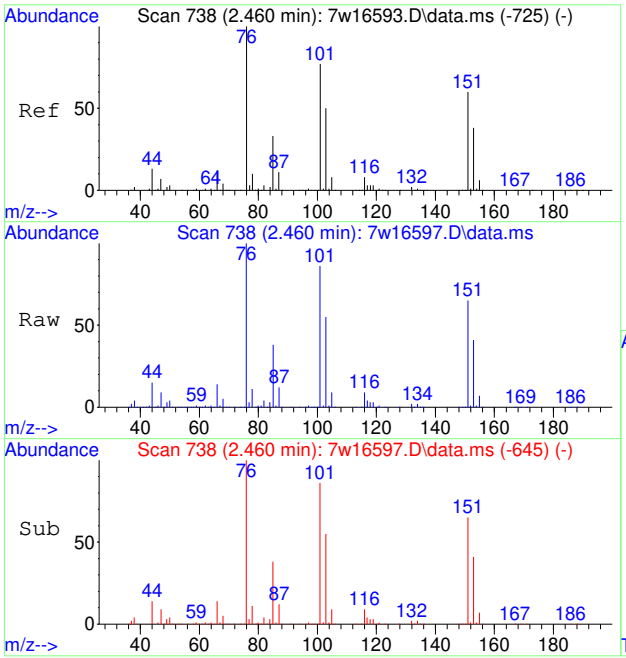


#32
3-CHLOROPROPENE
Concen: 10.52 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 60492

Ion	Ratio	Lower	Upper
76	100		
41	291.7	202.6	376.2
39	181.6	125.8	233.6
78	32.4	23.1	42.9

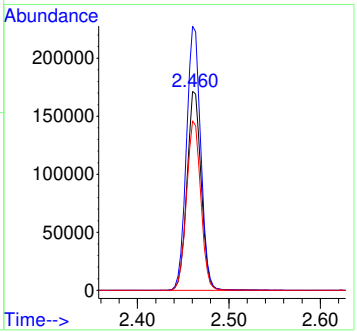


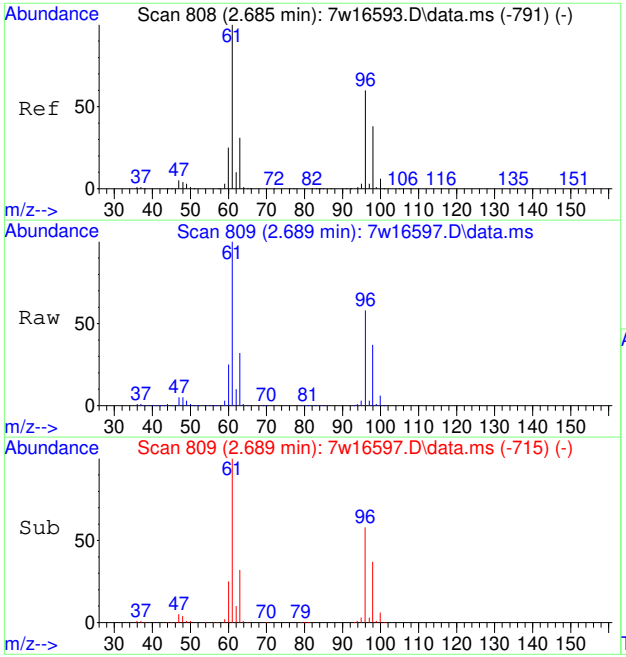


#33
FREON 113
Concen: 11.44 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:151 Resp: 185131

Ion	Ratio	Lower	Upper
151	100		
101	133.4	93.1	172.9
103	85.8	60.1	111.5

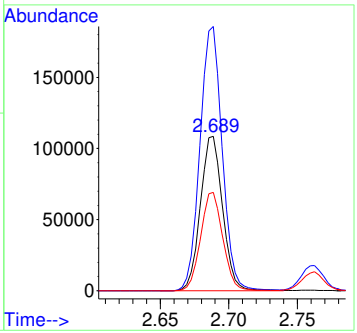


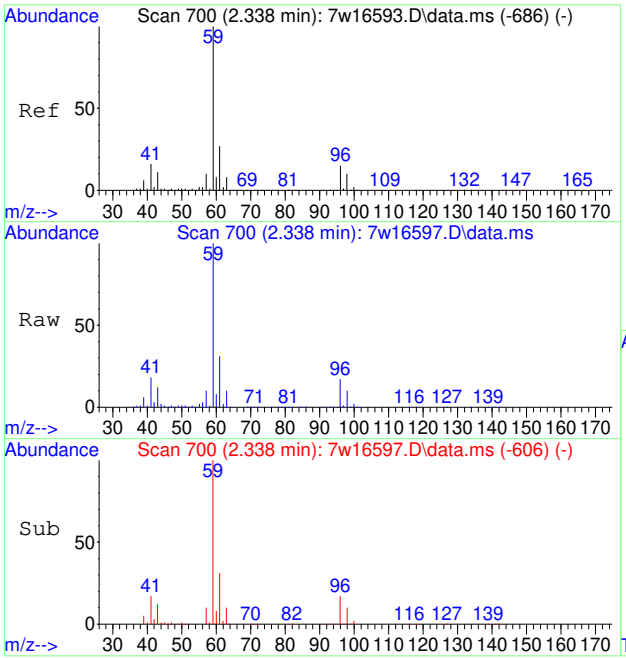


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.33 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 122177

Ion	Ratio	Lower	Upper
96	100		
61	171.2	119.6	222.0
98	63.6	44.9	83.5

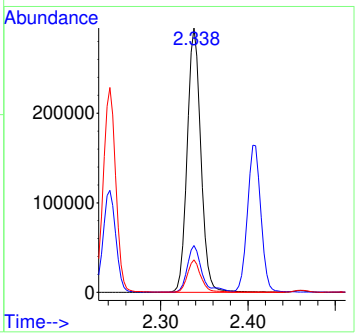


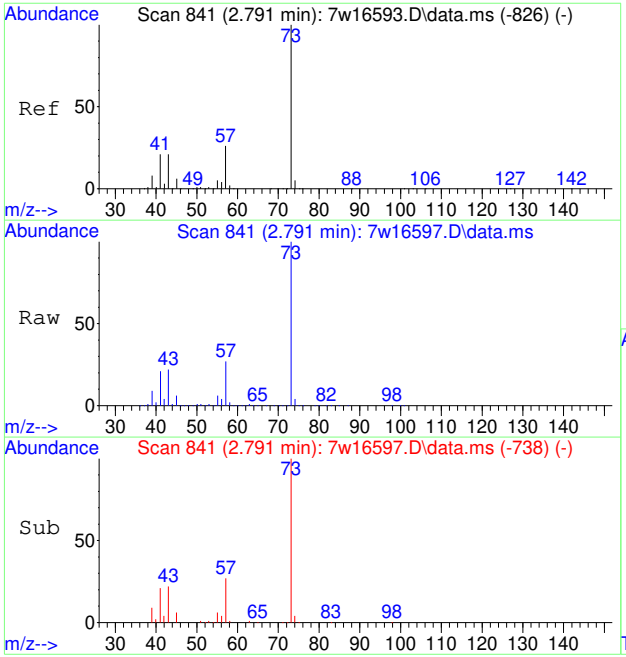


#35
TERTIARY BUTYL ALCOHOL
Concen: 10.78 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 321878

Ion	Ratio	Lower	Upper
59	100		
41	18.6	12.9	23.9
43	12.1	8.0	14.8

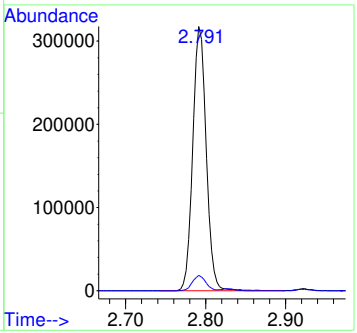


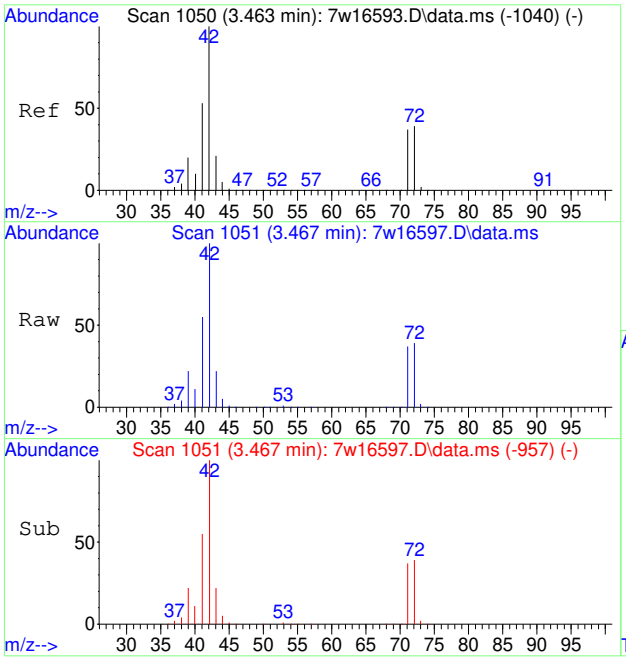


#36
METHYL TERTIARY BUTYL ETHER
Concen: 11.06 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 73 Resp: 372091

Ion	Ratio	Lower	Upper
73	100		
45	5.8	4.1	7.5

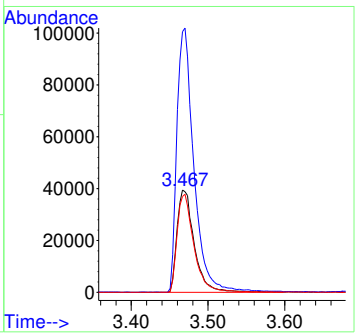


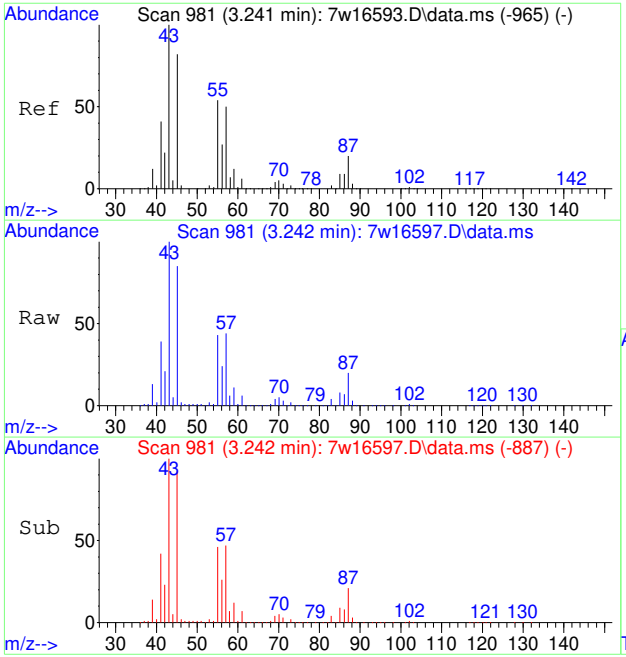


#37
TETRAHYDROFURAN
Concen: 11.34 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 61873

Ion	Ratio	Lower	Upper
72	100		
42	255.2	180.3	334.8
71	93.5	65.8	122.2

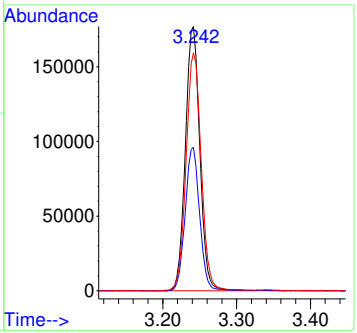


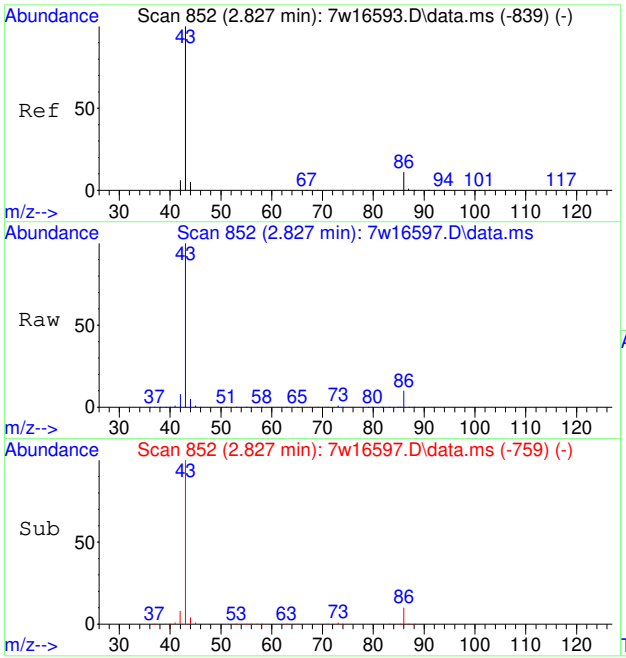


#38
HEXANE
Concen: 10.65 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 241359

Ion	Ratio	Lower	Upper
57	100		
56	54.3	38.0	70.6
41	94.3	65.9	122.5

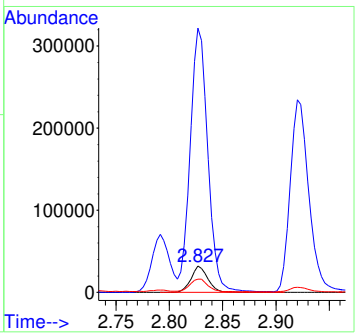


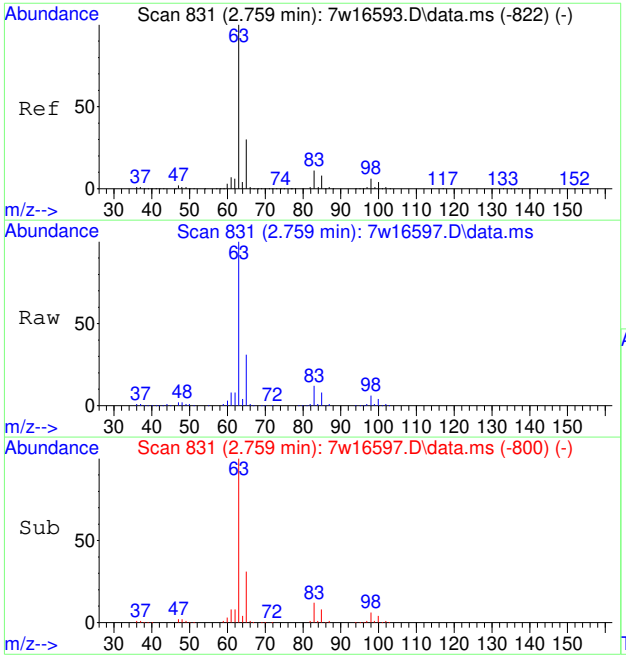


#39
VINYL ACETATE
Concen: 10.80 PPBV
RT: 2.827 min Scan# 852
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 86 Resp: 34923

Ion	Ratio	Lower	Upper
86	100		
43	1069.3	758.7	1408.9
44	53.9	39.5	73.3

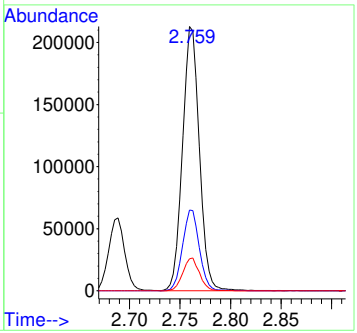


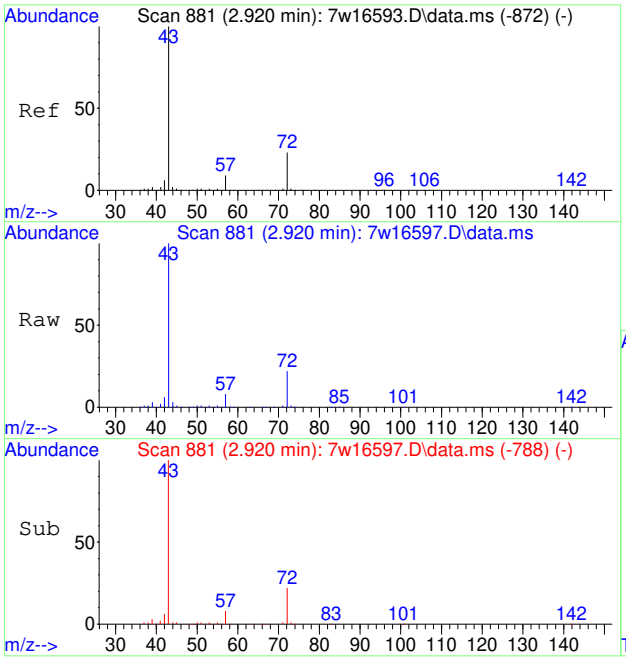


#40
1,1-DICHLOROETHANE
Concen: 10.82 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 247364

Ion	Ratio	Lower	Upper
63	100		
65	30.7	21.4	39.8
83	12.4	8.3	15.5

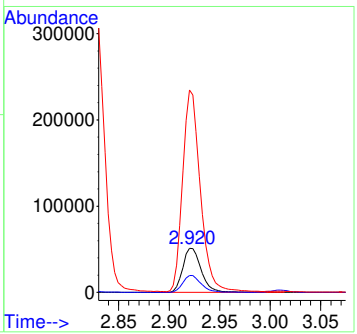


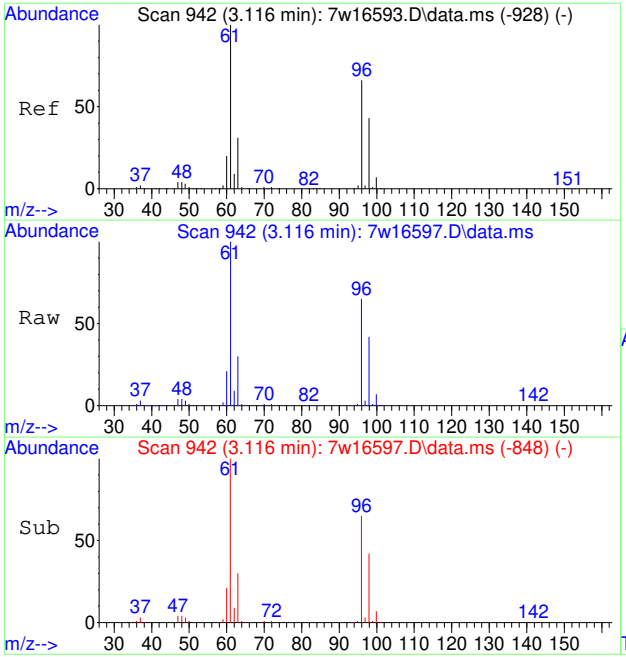


#41
METHYL ETHYL KETONE
Concen: 10.54 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 65125

Ion	Ratio	Lower	Upper
72	100		
57	38.2	26.9	49.9
43	435.4	309.4	574.6

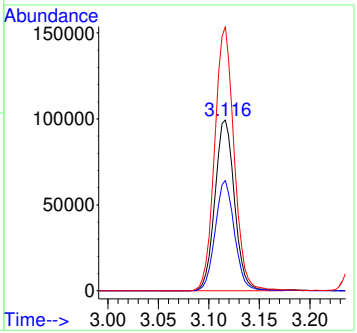


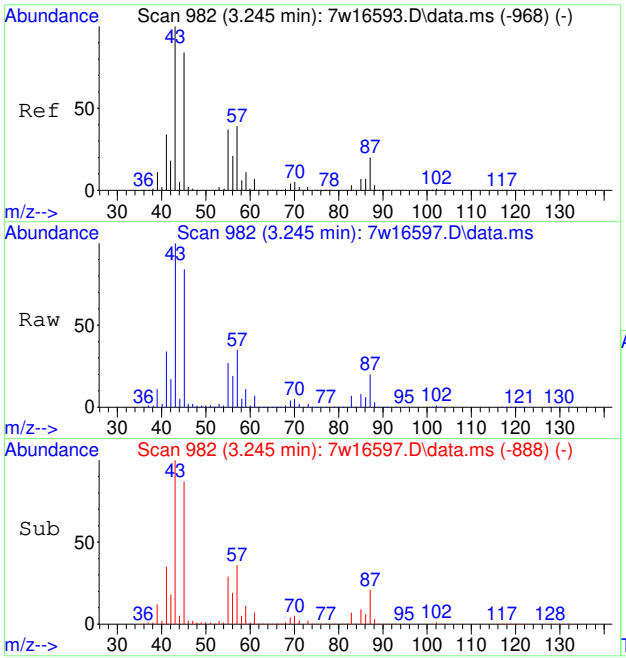


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.92 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 133909

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	153.4	107.3	199.3

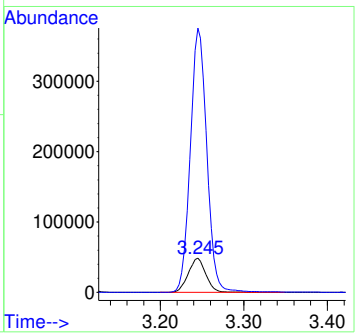


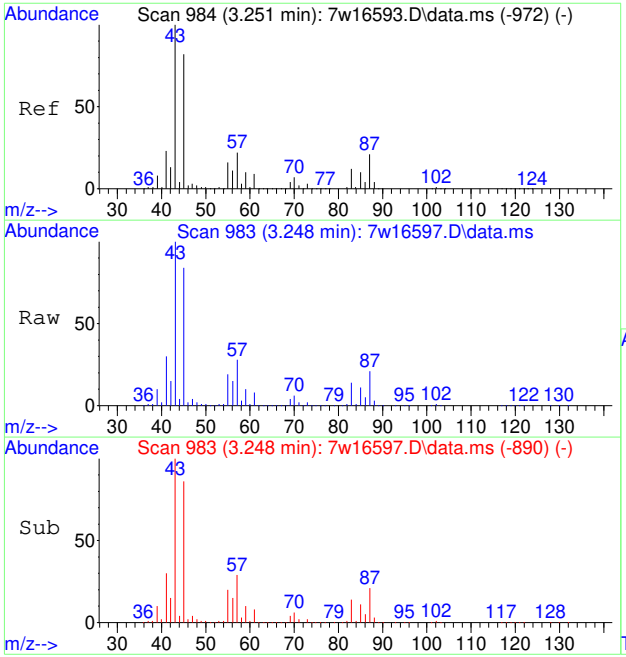


#43
DIISOPROPYL ETHER
Concen: 11.12 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 71425

Ion	Ratio	Lower	Upper
59	100		
45	726.0	517.6	961.2

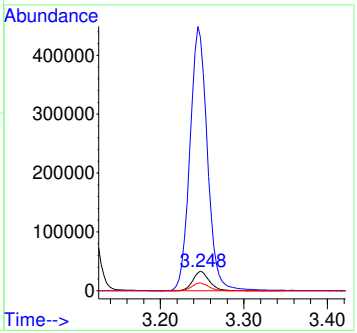


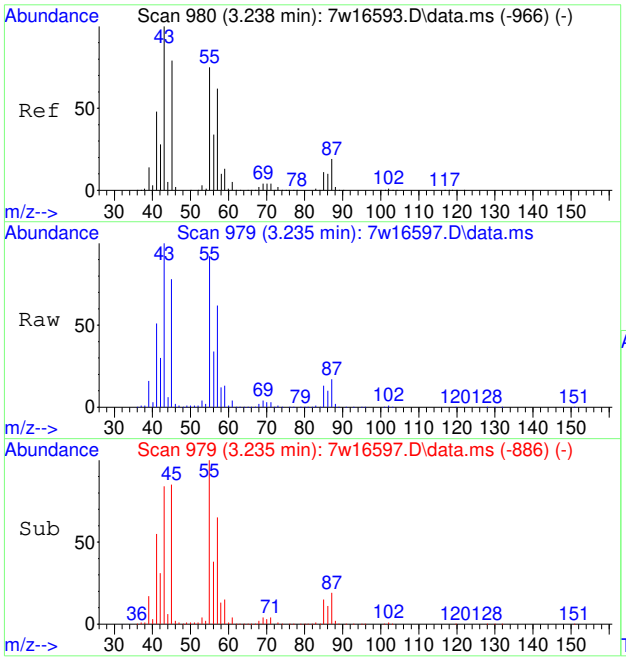


#44
ETHYL ACETATE
Concen: 10.62 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 61 Resp: 46105

Ion	Ratio	Lower	Upper
61	100		
43	1420.7	955.4	1774.4
88	41.4	27.6	51.2

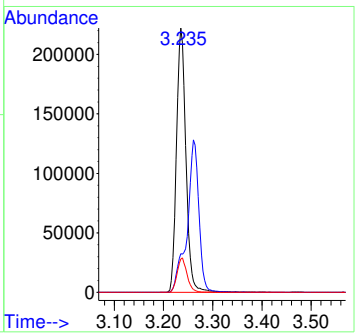


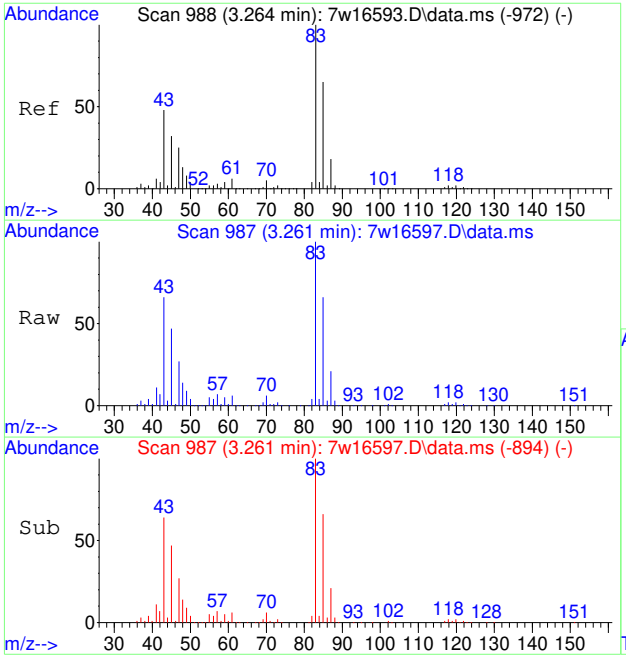


#45
METHYL ACRYLATE
Concen: 10.90 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 298658

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

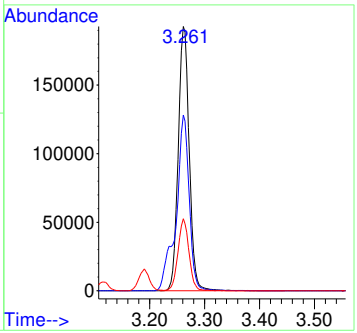


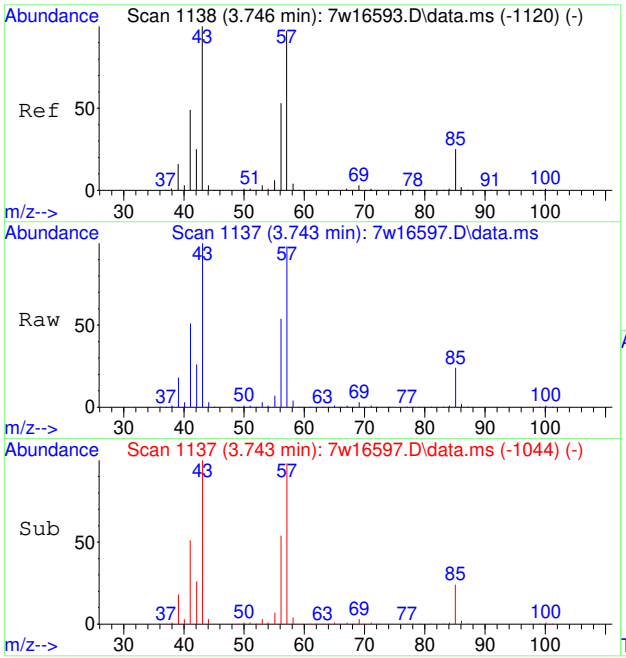


#46
CHLOROFORM
Concen: 11.35 PPBV
RT: 3.261 min Scan# 987
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 268569

Ion	Ratio	Lower	Upper
83	100		
85	79.6	56.0	104.0
47	27.5	19.0	35.4

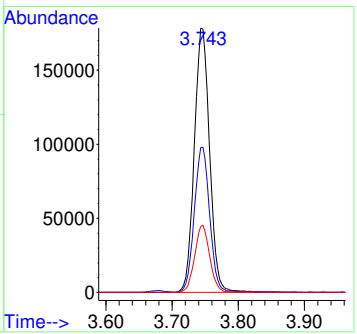


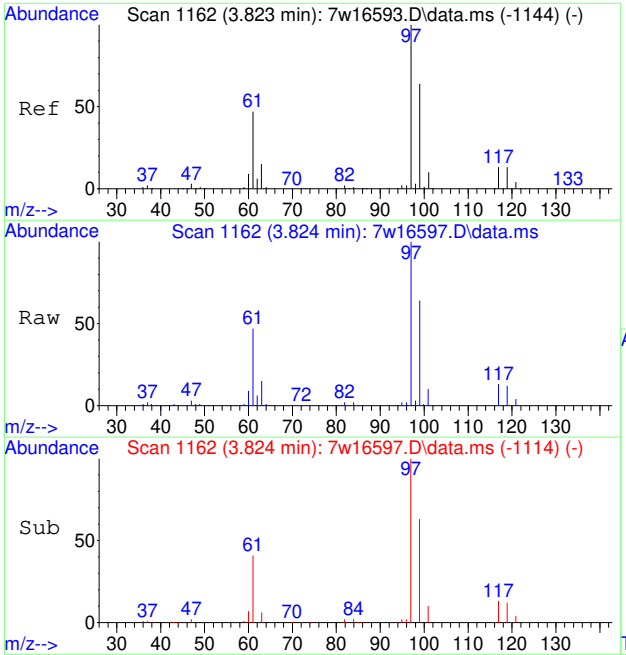


#47
2,4-DIMETHYLPENTANE
Concen: 11.35 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 287870

Ion	Ratio	Lower	Upper
57	100		
56	55.4	38.4	71.2
85	25.0	17.5	32.5

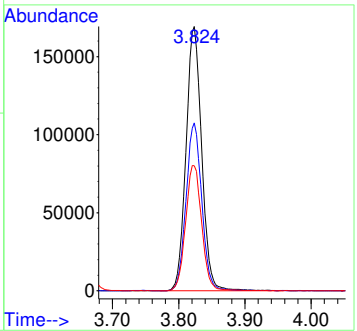


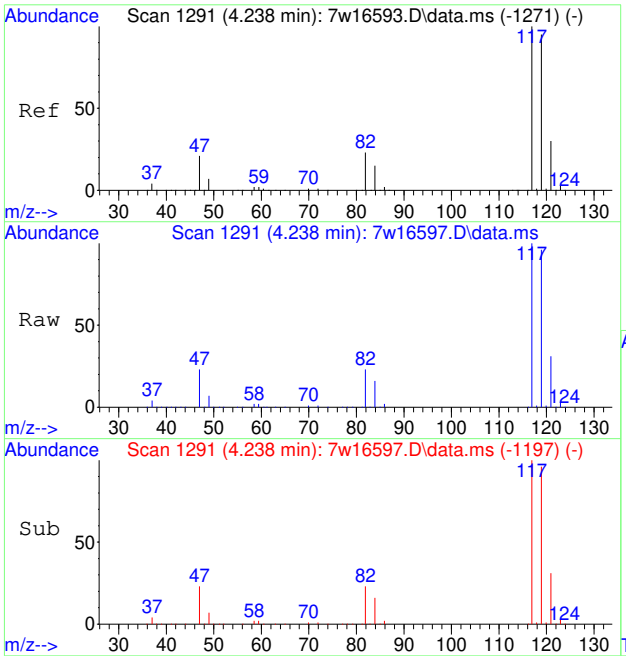


#48
1,1,1-TRICHLOROETHANE
Concen: 11.20 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 97 Resp: 279200

Ion	Ratio	Lower	Upper
97	100		
99	63.8	45.0	83.6
61	48.8	34.7	64.5

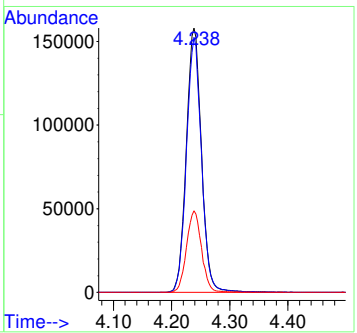


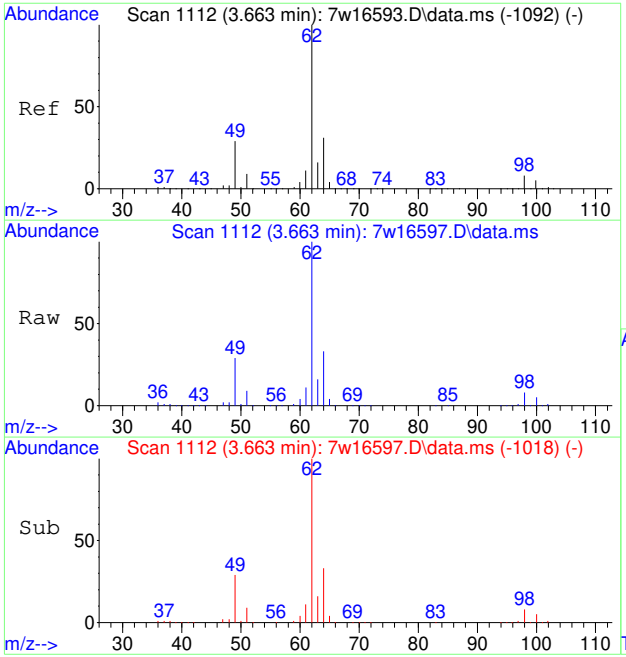


#49
CARBON TETRACHLORIDE
Concen: 11.10 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 286618

Ion	Ratio	Lower	Upper
117	100		
119	95.8	67.5	125.3
121	30.7	21.3	39.5

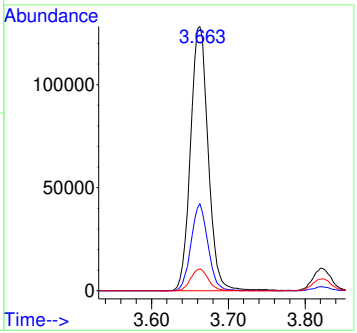


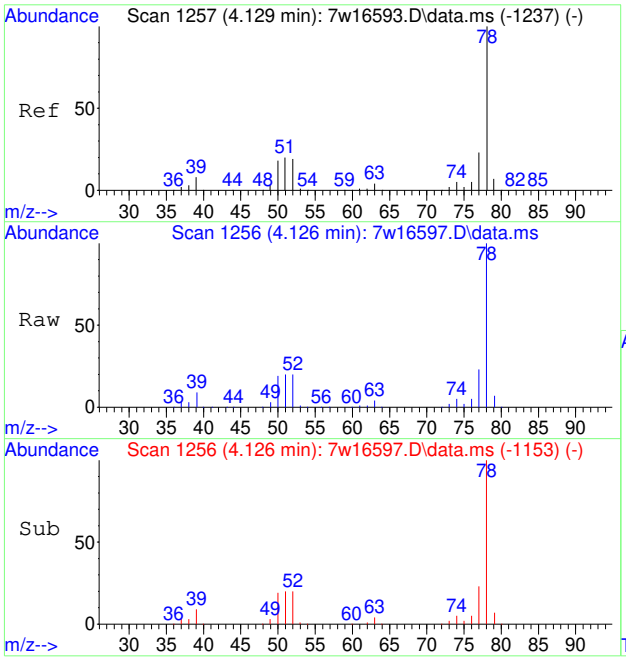


#50
1,2-DICHLOROETHANE
Concen: 11.17 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 205457

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.3	5.8	10.8

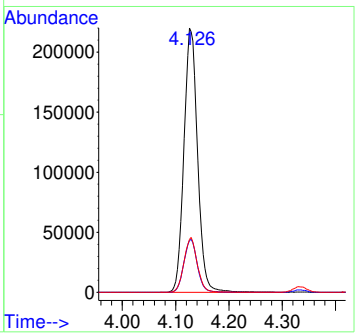


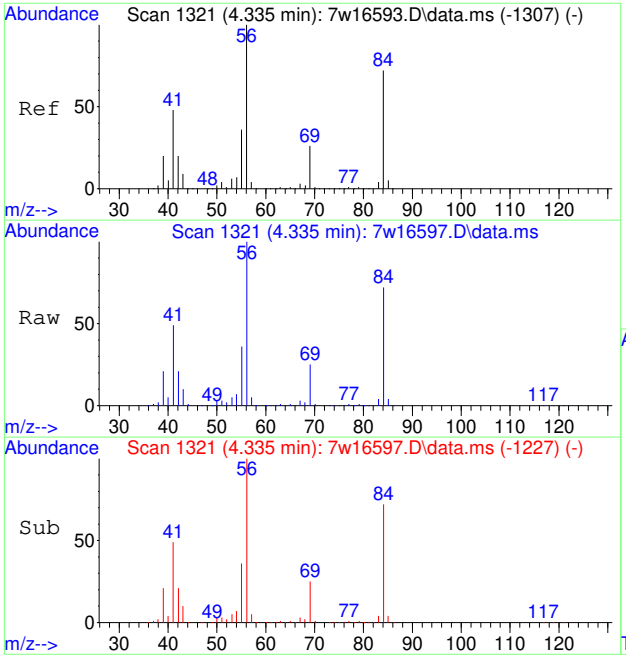


#51
BENZENE
Concen: 10.80 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 78 Resp: 392045

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	49.9
51	20.3	0.0	50.6

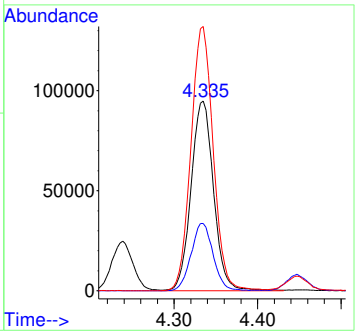


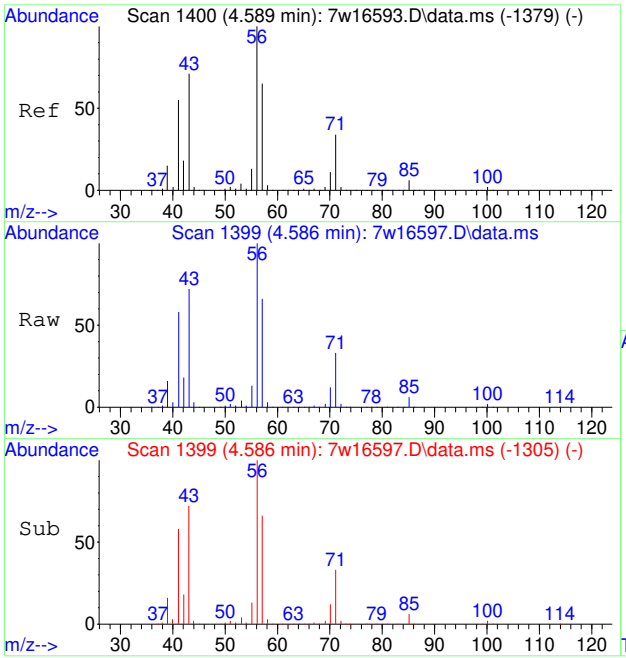


#53
CYCLOHEXANE
Concen: 11.13 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 178042

Ion	Ratio	Lower	Upper
84	100		
69	34.9	24.6	45.6
56	137.7	96.4	179.0

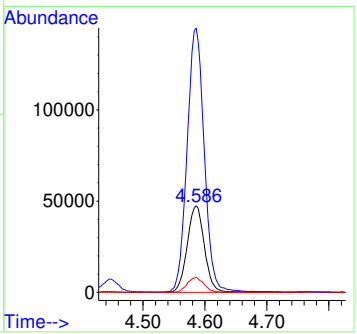


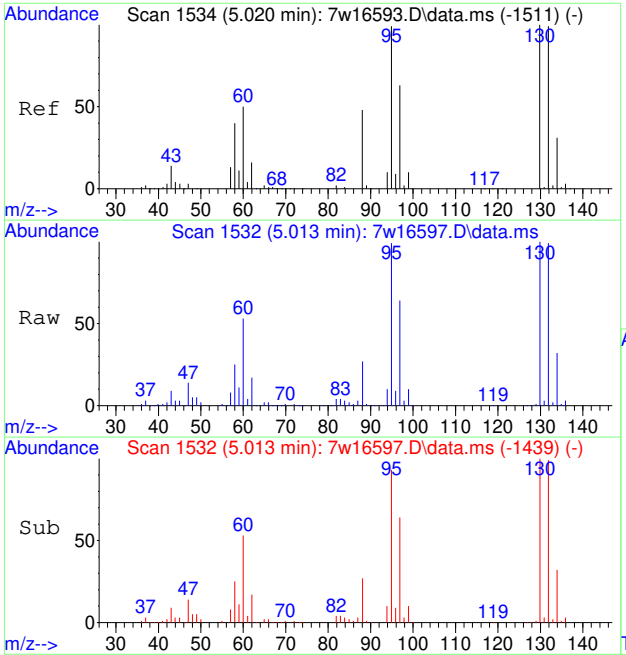


#54
2,3-DIMETHYLPENTANE
Concen: 11.55 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 71 Resp: 92136

Ion	Ratio	Lower	Upper
71	100		
56	303.3	213.2	396.0
85	17.0	12.2	22.6

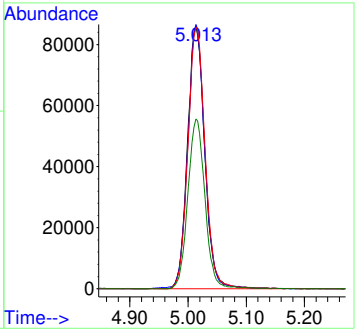


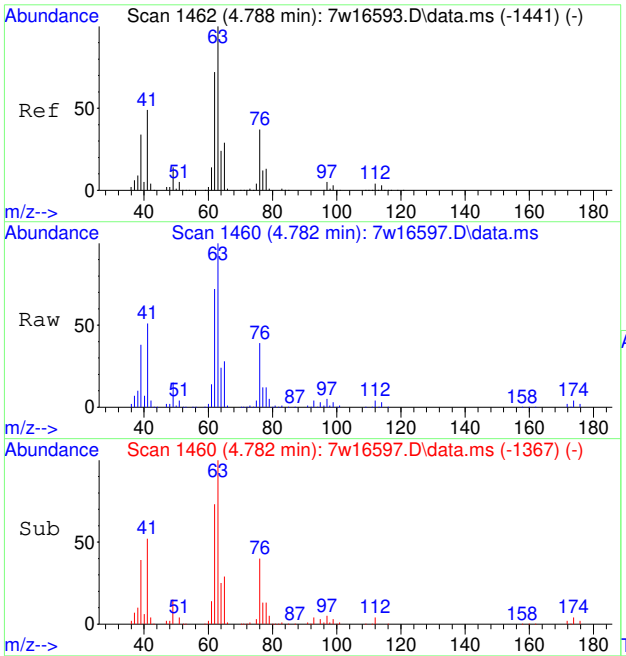


#55
TRICHLOROETHENE
Concen: 10.41 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 95 Resp: 177553

Ion	Ratio	Lower	Upper
95	100		
130	99.6	69.4	129.0
132	99.5	69.4	128.8
97	63.9	45.0	83.6

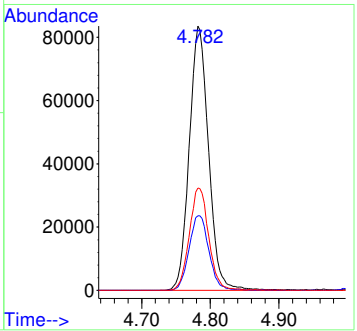


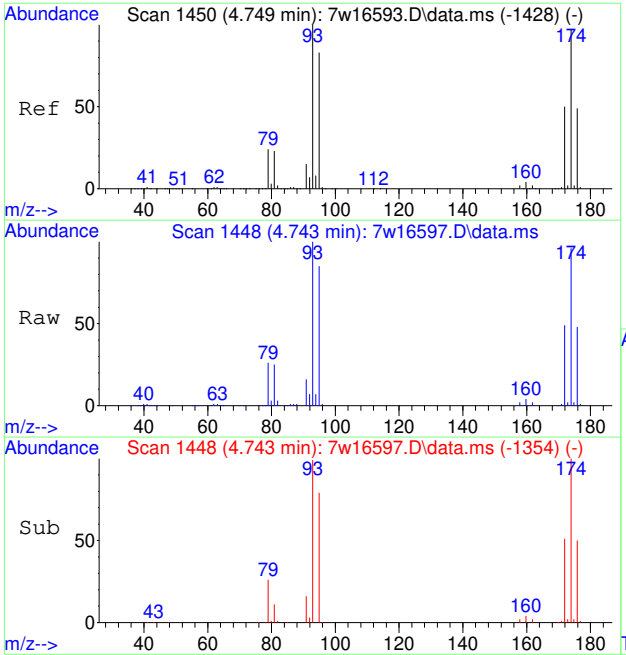


#56
1,2-DICHLOROPROPANE
Concen: 10.84 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 163448

Ion	Ratio	Lower	Upper
63	100		
65	29.3	20.5	38.1
76	39.1	27.1	50.3

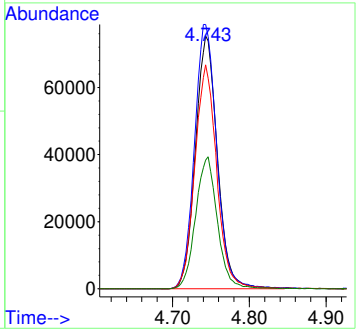


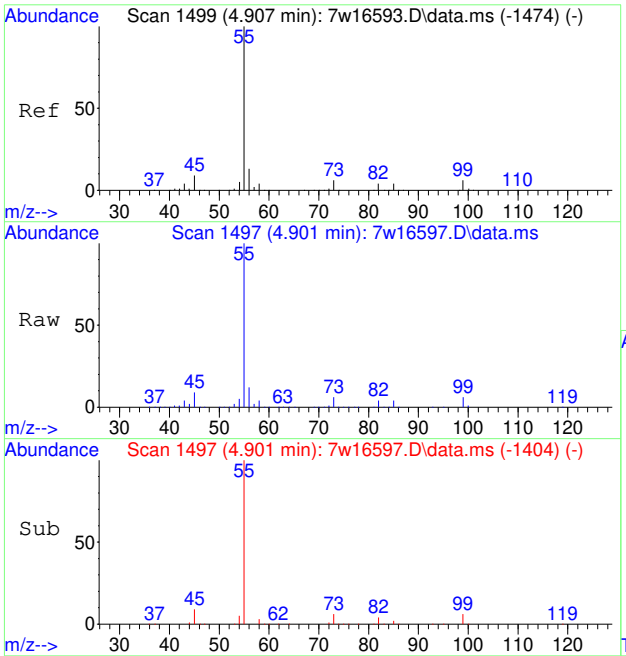


#57
DIBROMOMETHANE
Concen: 10.35 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:174 Resp: 150387

Ion	Ratio	Lower	Upper
174	100		
93	106.5	75.3	139.9
95	88.3	62.4	115.8
172	51.7	36.6	68.0

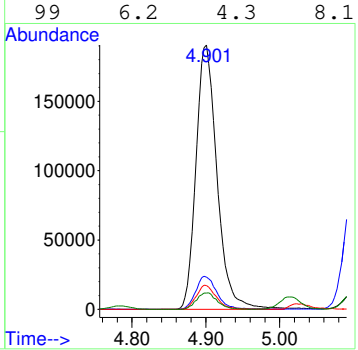


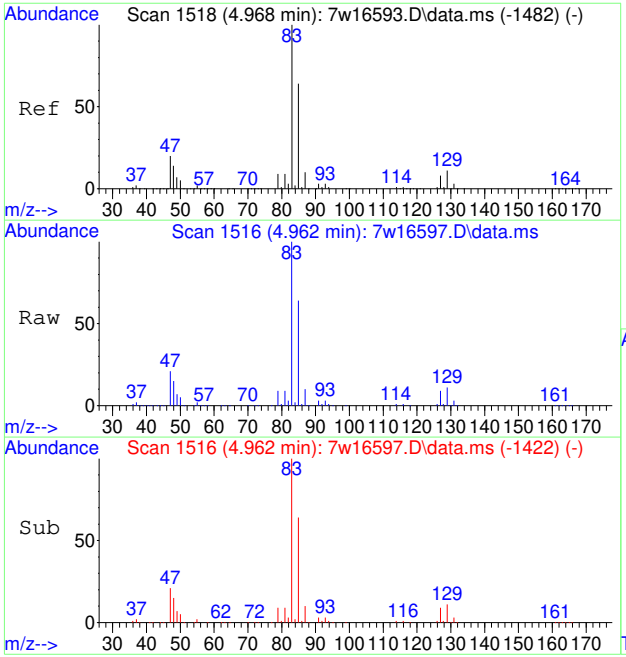


#58
ETHYL ACRYLATE
Concen: 11.17 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 376913

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.8	6.1	11.3
99	6.2	4.3	8.1

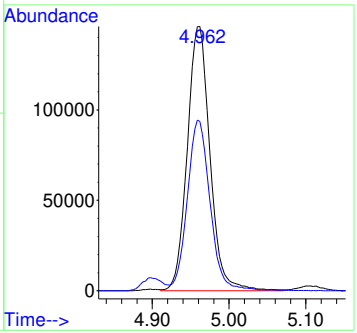


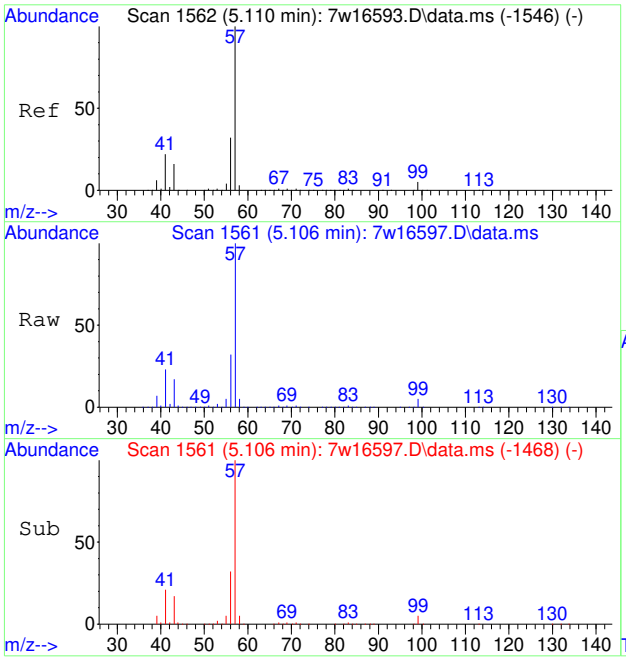


#59
BROMODICHLOROMETHANE
Concen: 10.90 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 300258

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

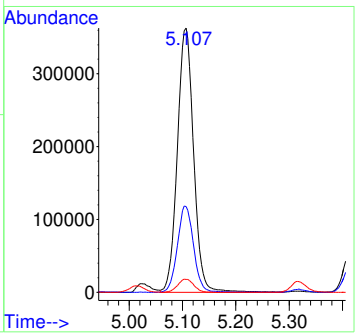


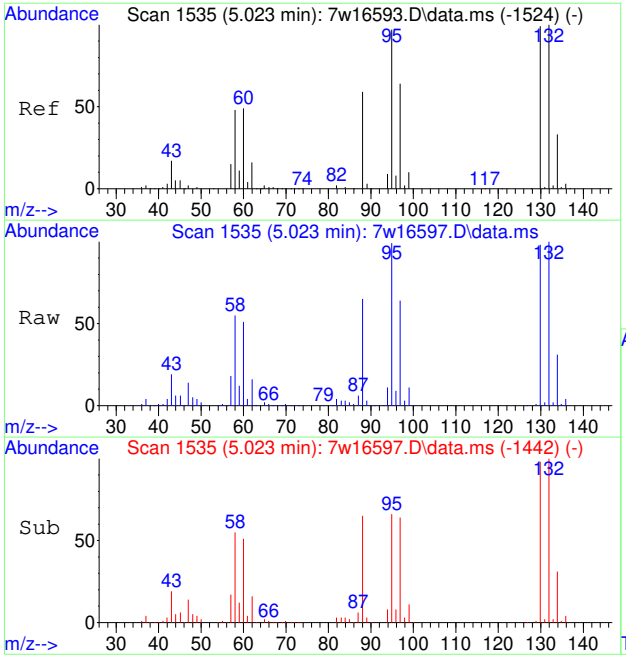


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.43 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 770282

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.0	3.6	6.8

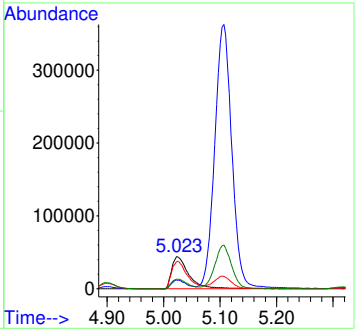


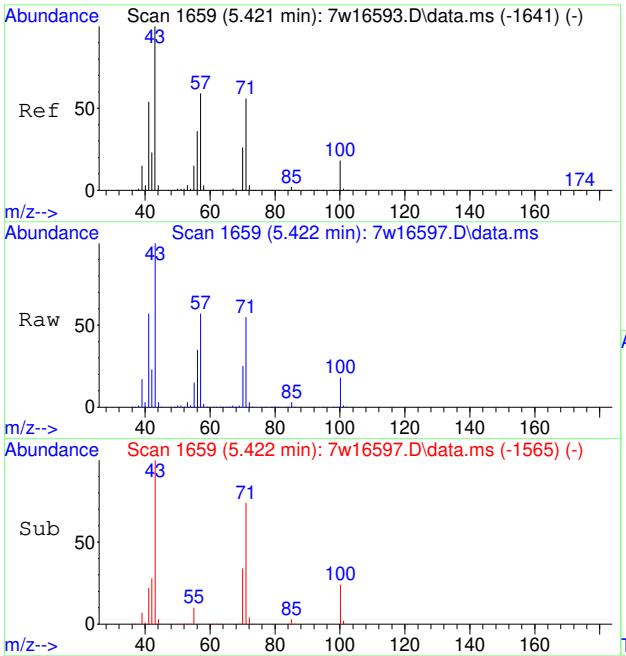


#61
1,4-DIOXANE
Concen: 11.72 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 88 Resp: 94601

Ion	Ratio	Lower	Upper
88	100		
57	23.9	16.7	30.9
58	77.5	52.4	97.4
43	26.8	18.5	34.3

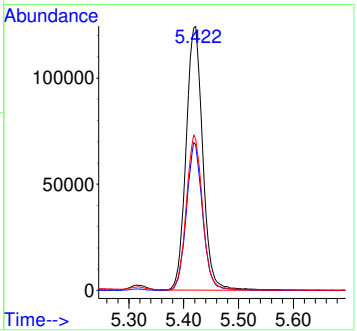


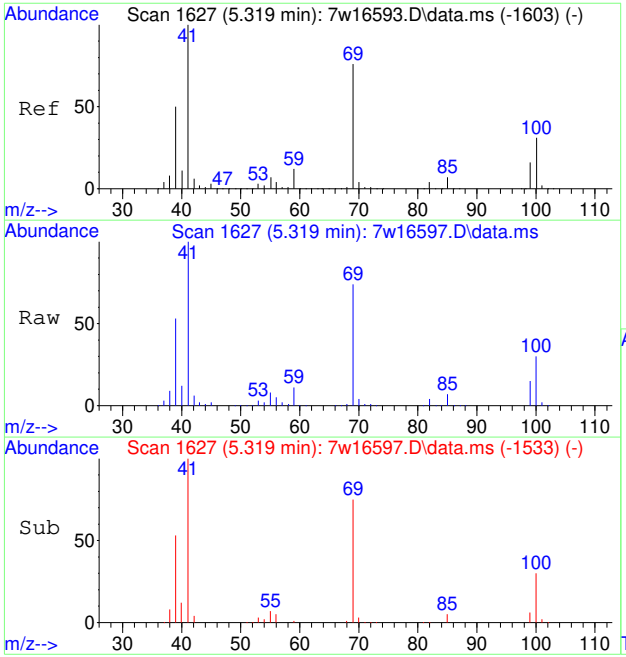


#62
HEPTANE
Concen: 10.72 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 261506

Ion	Ratio	Lower	Upper
43	100		
71	54.5	38.9	72.2
57	57.7	40.5	75.3

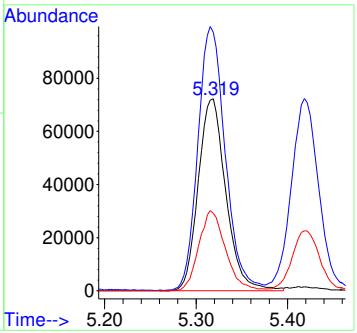


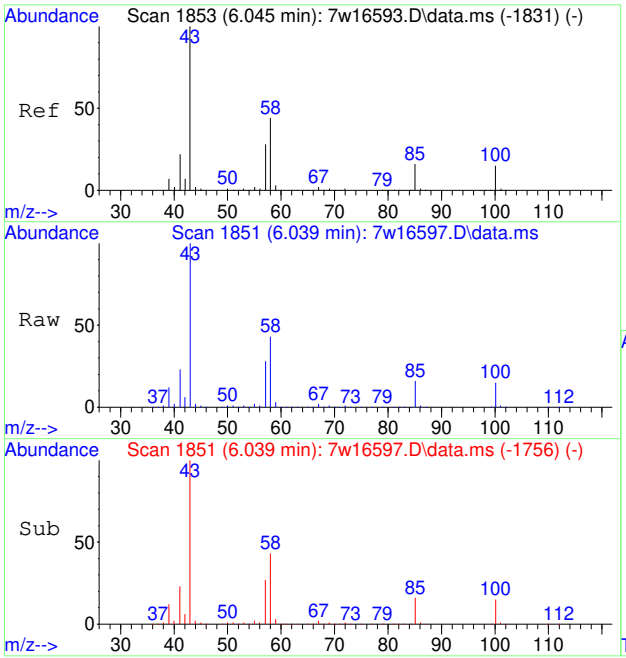


#63
METHYL METHACRYLATE
Concen: 11.09 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 152007

Ion	Ratio	Lower	Upper
69	100		
41	135.8	95.5	177.4
100	40.4	28.1	52.1

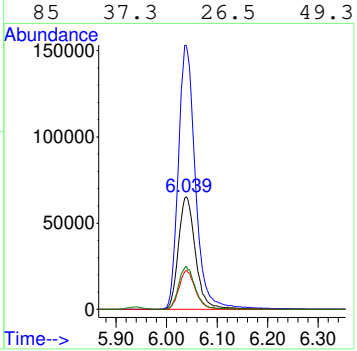


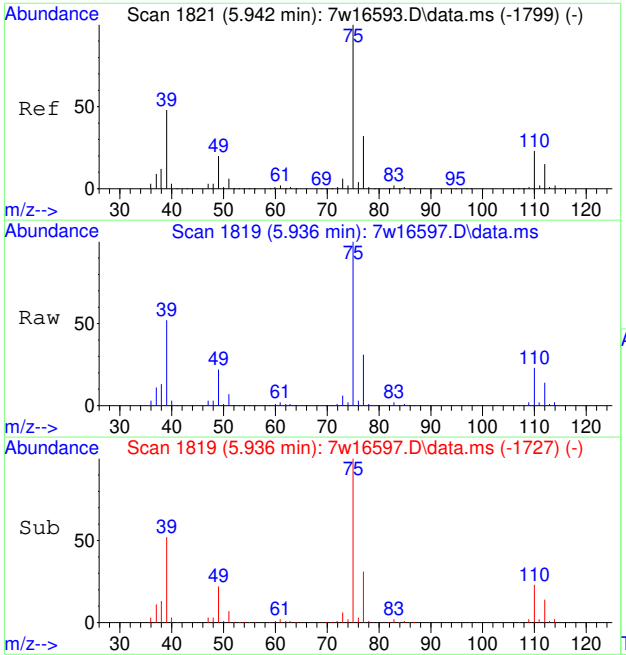


#64
METHYL ISOBUTYL KETONE
Concen: 10.57 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 154590

Ion	Ratio	Lower	Upper
58	100		
43	234.3	163.8	304.2
100	33.6	23.2	43.2
85	37.3	26.5	49.3

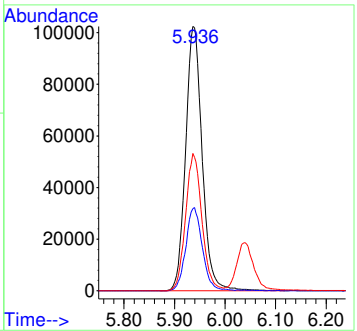


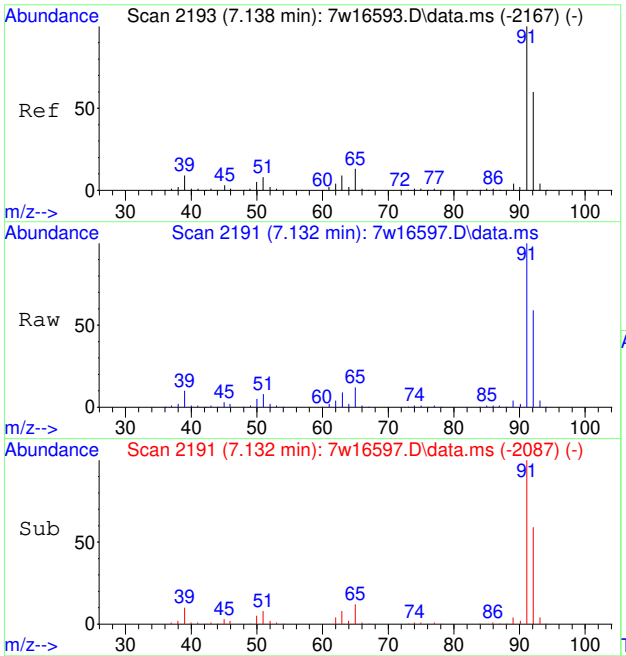


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.11 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 233811

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	41.0
39	51.1	35.7	66.3

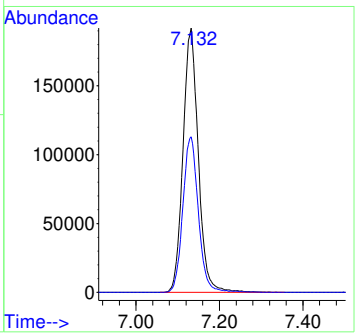


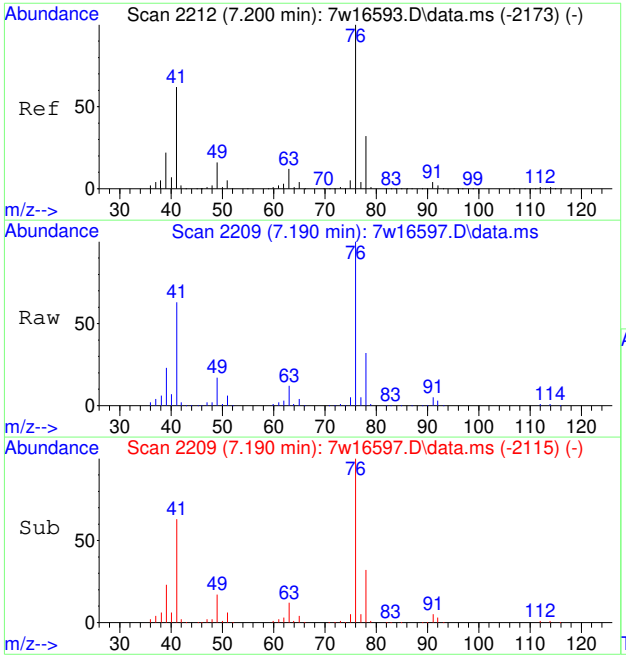


#66
TOLUENE
Concen: 11.25 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 488543

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

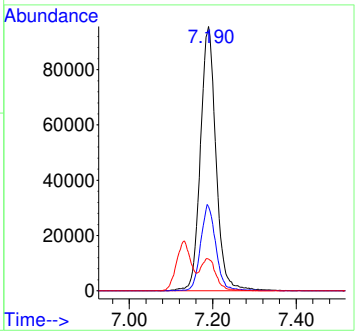


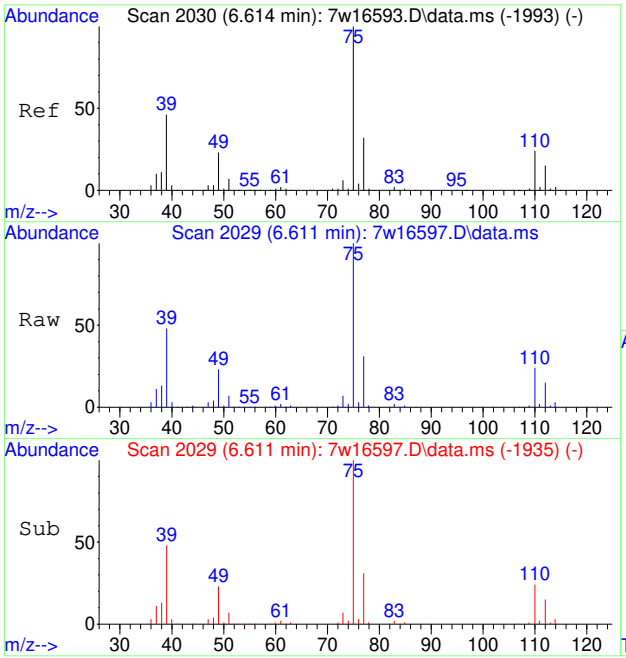


#67
1,3-DICHLOROPROPANE
Concen: 11.34 PPBV
RT: 7.190 min Scan# 2209
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 246988

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.4	41.6
63	12.0	8.3	15.5

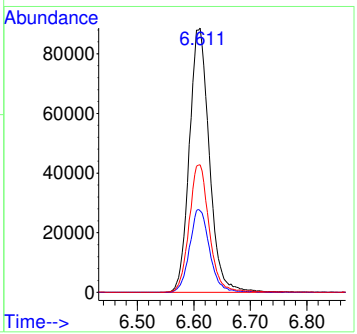


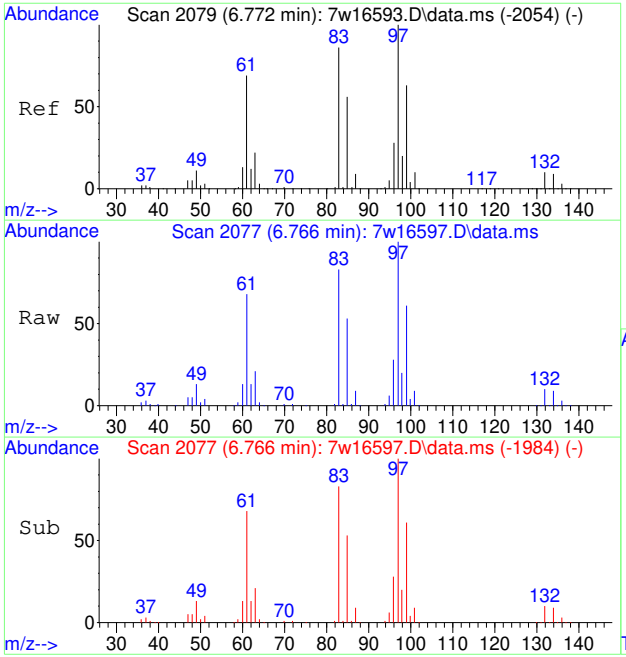


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 10.42 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 217661

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	48.8	33.9	63.0

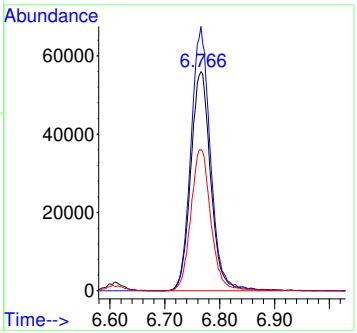


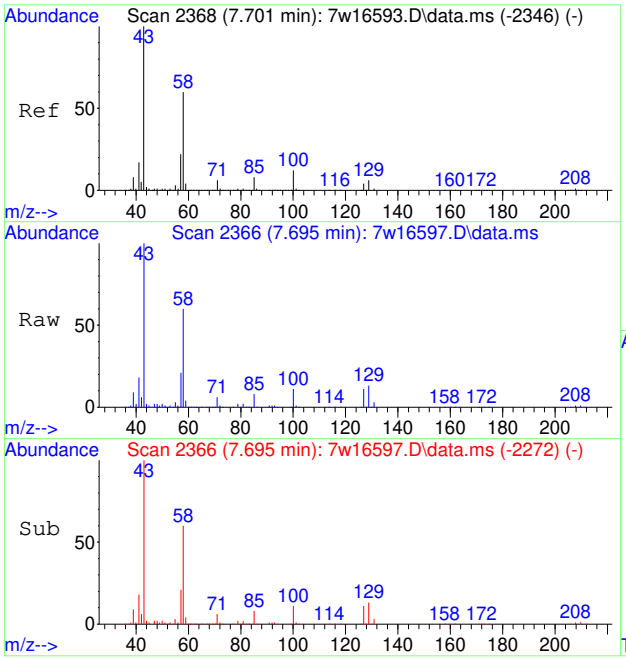


#69
1,1,2-TRICHLOROETHANE
Concen: 11.44 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 141620

Ion	Ratio	Lower	Upper
83	100		
97	117.7	81.2	150.8
85	64.6	45.1	83.7

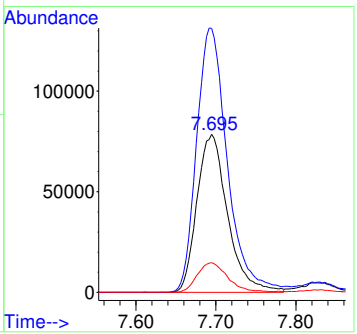


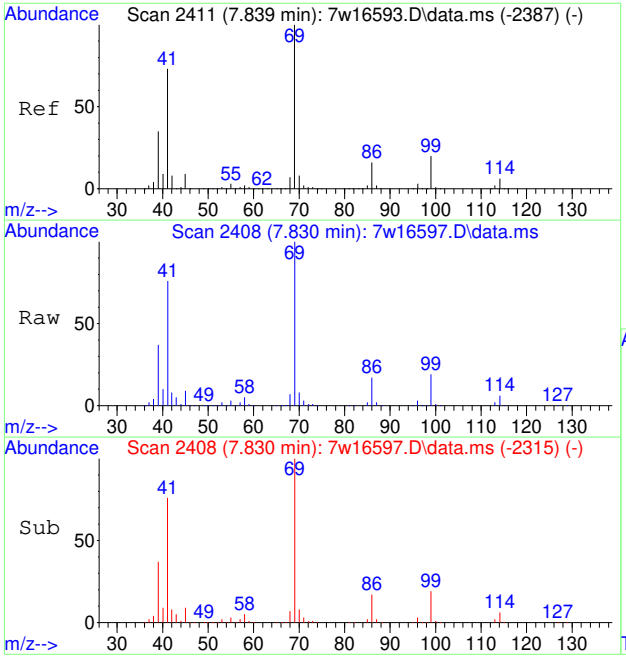


#70
2-HEXANONE
Concen: 10.26 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 209349

Ion	Ratio	Lower	Upper
58	100		
43	167.7	118.6	220.2
100	19.1	13.0	24.2

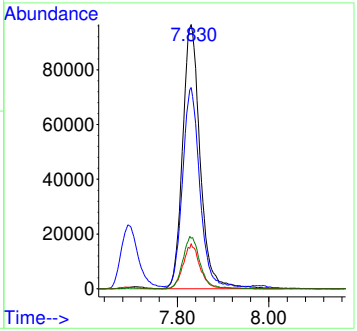


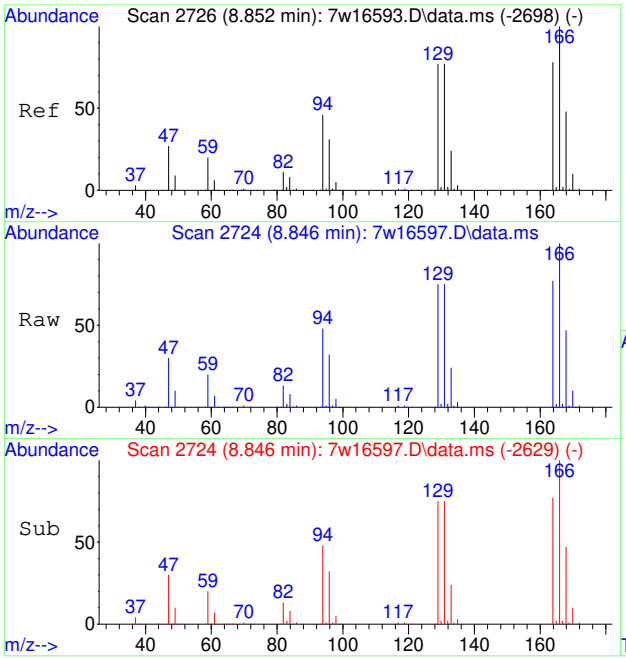


#71
ETHYL METHACRYLATE
Concen: 11.23 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 256728

Ion	Ratio	Lower	Upper
69	100		
41	75.7	53.6	99.6
86	16.4	11.3	20.9
99	19.3	13.8	25.6

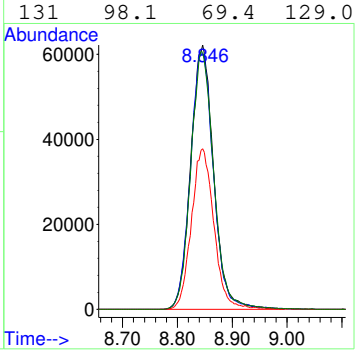


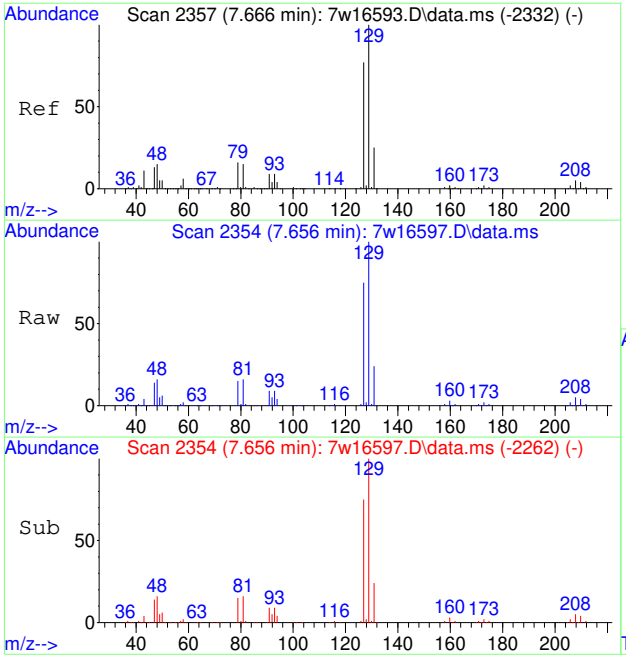


#72
TETRACHLOROETHENE
Concen: 11.40 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:164 Resp: 180607

Ion	Ratio	Lower	Upper
164	100		
129	98.9	69.6	129.2
168	60.0	42.5	78.9
131	98.1	69.4	129.0

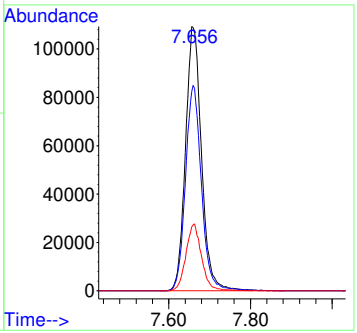


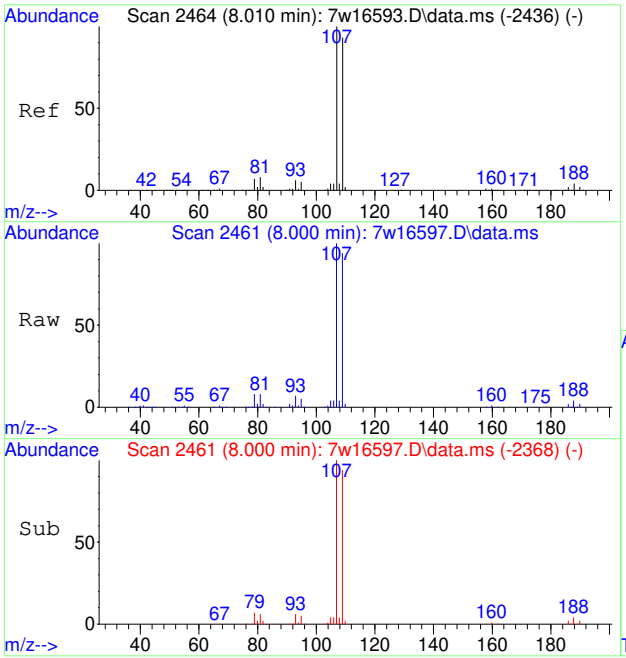


#73
DIBROMOCHLOROMETHANE
Concen: 11.82 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:129 Resp: 297263

Ion	Ratio	Lower	Upper
129	100		
127	77.7	54.7	101.7
131	24.7	17.4	32.4

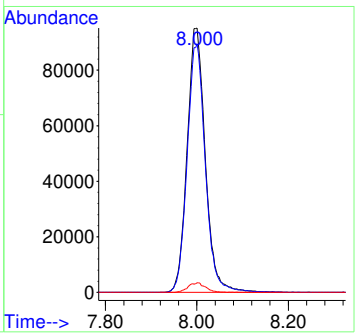


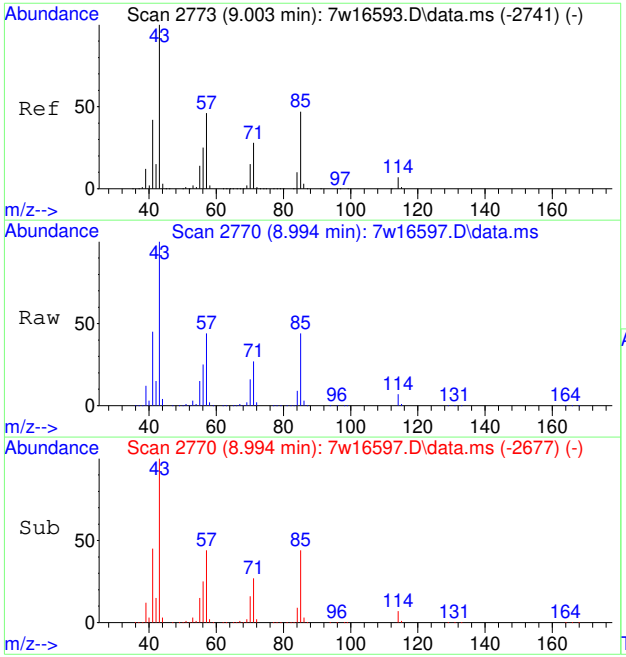


#74
1,2-DIBROMOETHANE
Concen: 11.75 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:107 Resp: 263017

Ion	Ratio	Lower	Upper
107	100		
109	94.1	66.1	122.8
188	3.5	2.5	4.6

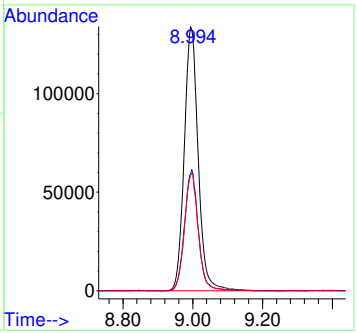


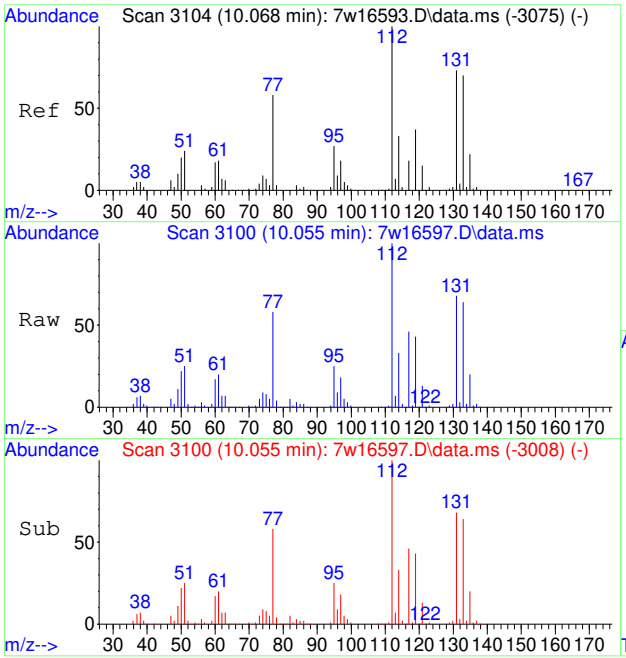


#75
OCTANE
Concen: 11.38 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 371823

Ion	Ratio	Lower	Upper
43	100		
85	45.2	31.8	59.0
57	44.5	31.4	58.2

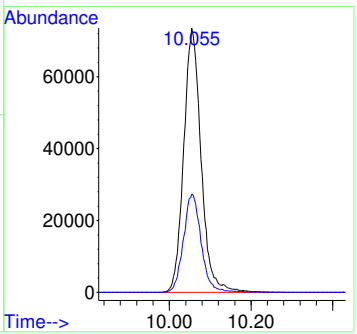


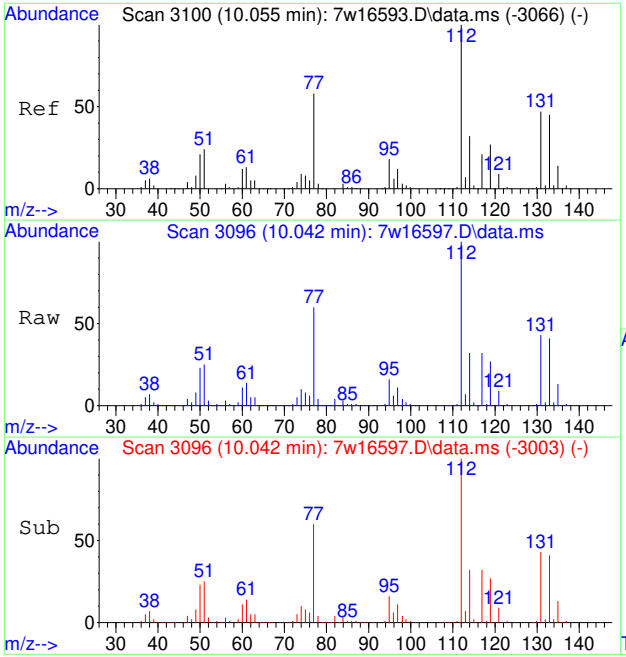


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 12.09 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:131 Resp: 217186

Ion	Ratio	Lower	Upper
131	100		
95	38.0	26.5	49.1

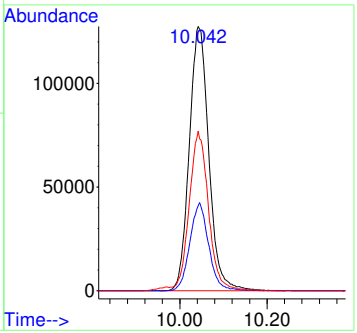


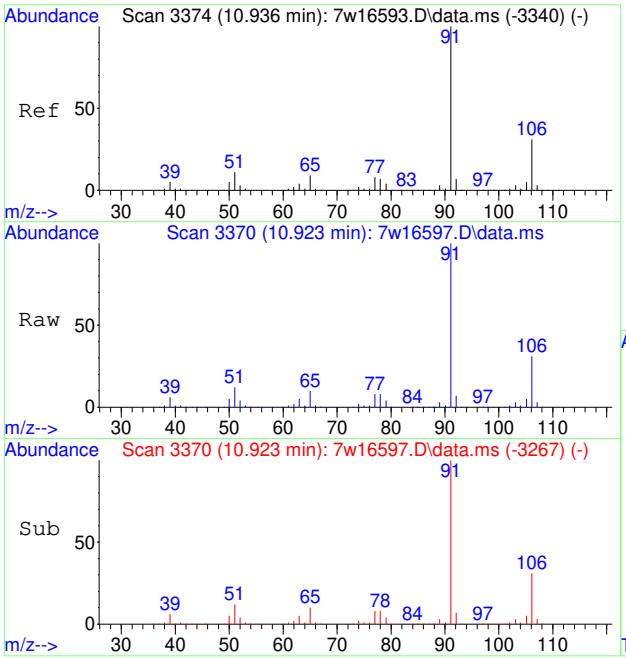


#78
CHLOROBENZENE
Concen: 11.61 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:112 Resp: 397219

Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.7
77	60.4	42.1	78.1

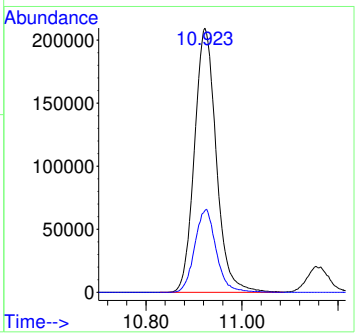


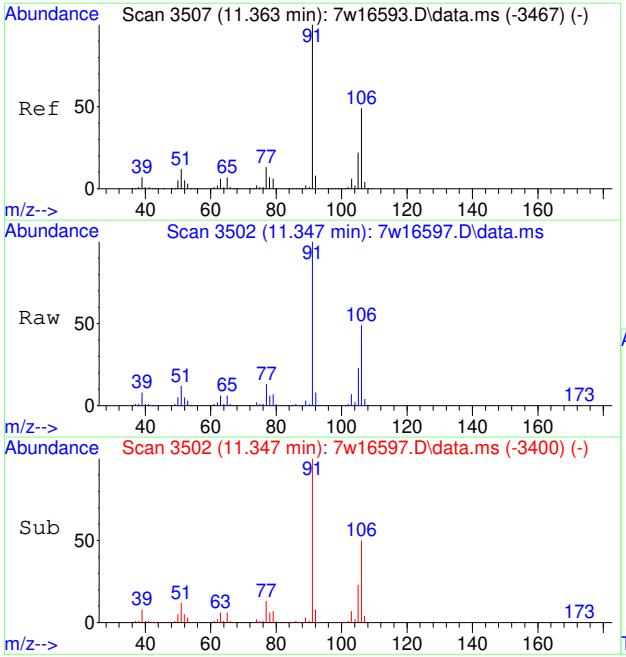


#79
ETHYLBENZENE
Concen: 11.76 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 659125

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.1	61.1

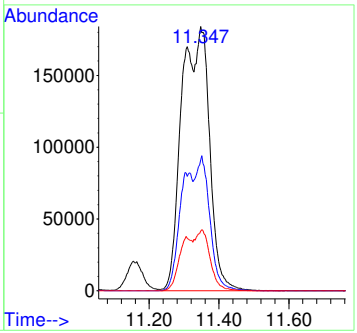


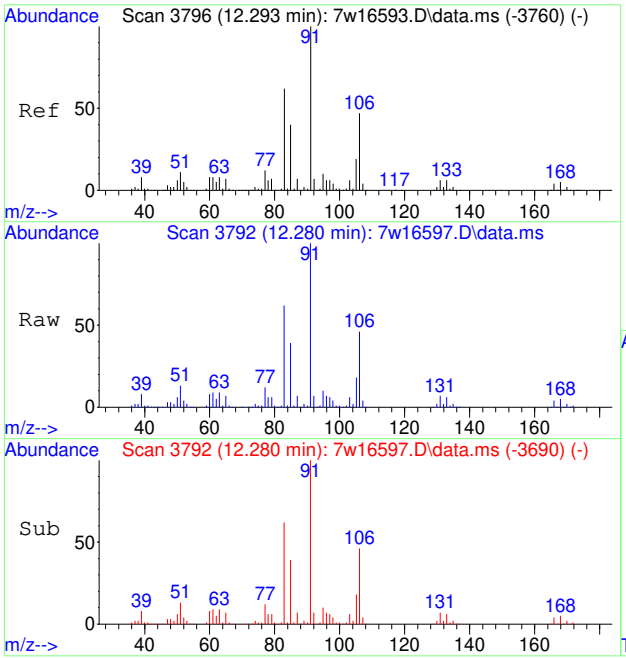


#80
M,P-XYLENE
Concen: 22.50 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 1021629

Ion	Ratio	Lower	Upper
91	100		
106	26.0	0.0	56.1
105	13.3	0.0	42.1

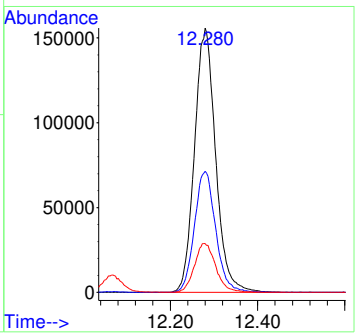


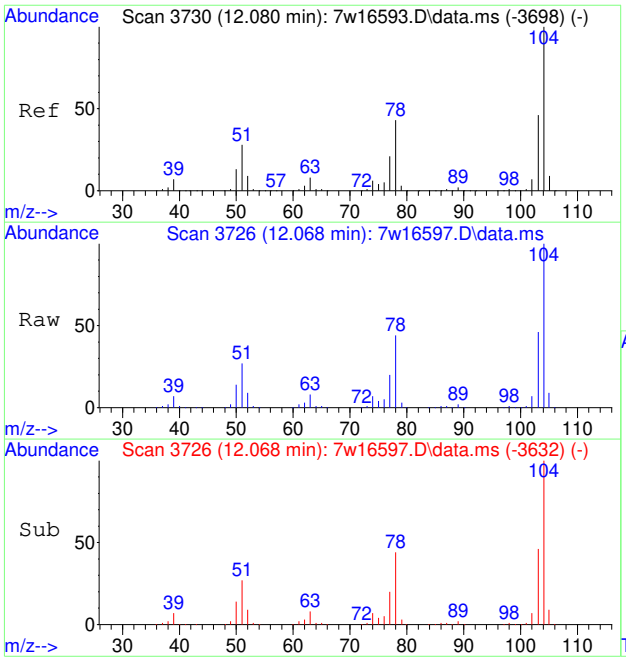


#81
O-XYLENE
Concen: 11.89 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 524115

Ion	Ratio	Lower	Upper
91	100		
106	45.8	31.8	59.0
105	18.5	13.0	24.2

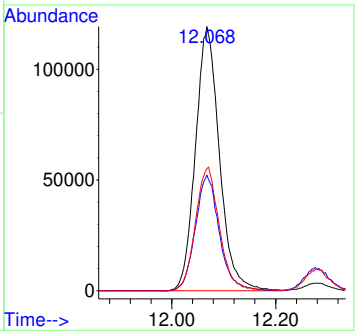


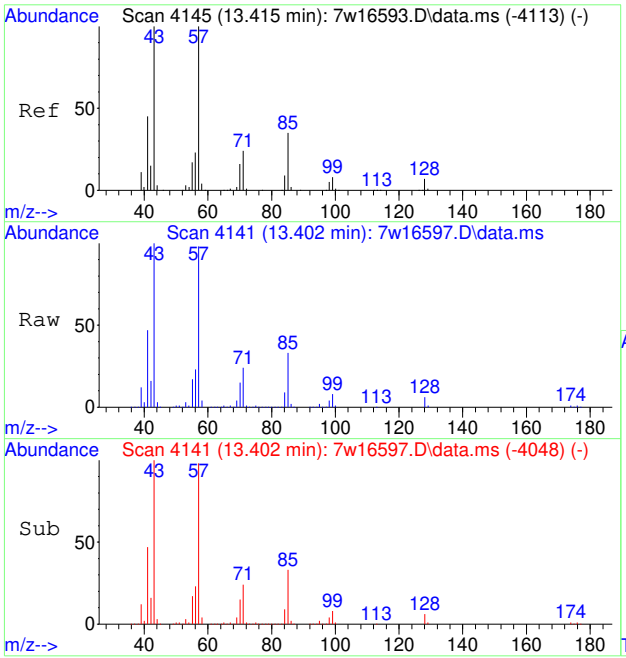


#82
STYRENE
Concen: 11.59 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:104 Resp: 383070

Ion	Ratio	Lower	Upper
104	100		
78	43.8	30.6	56.8
103	47.0	32.8	61.0

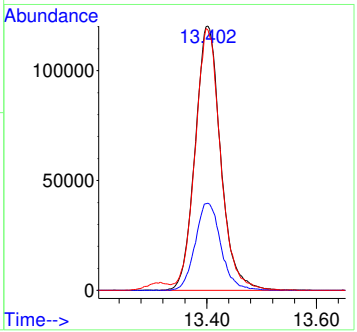


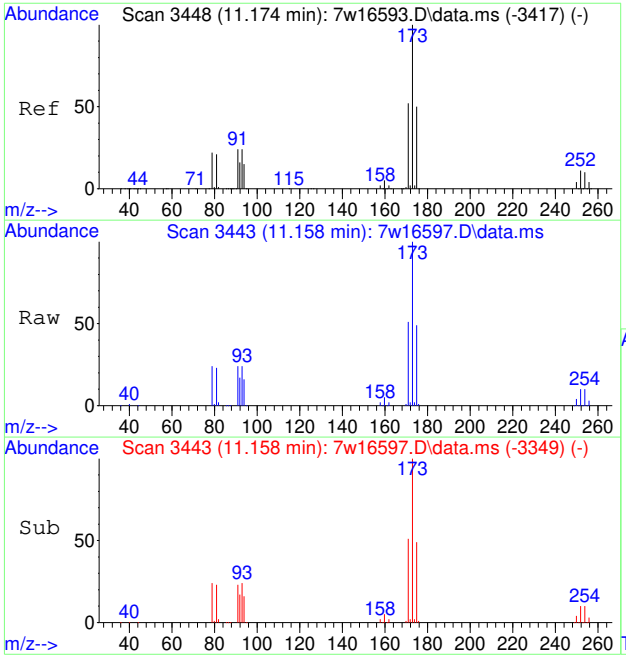


#83
NONANE
Concen: 11.35 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 389550

Ion	Ratio	Lower	Upper
43	100		
85	33.3	23.4	43.4
57	98.5	69.2	128.6

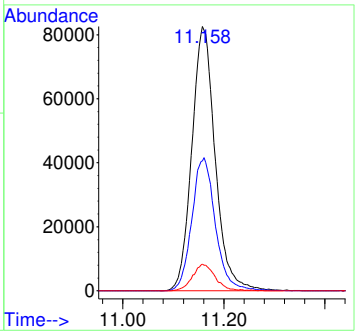


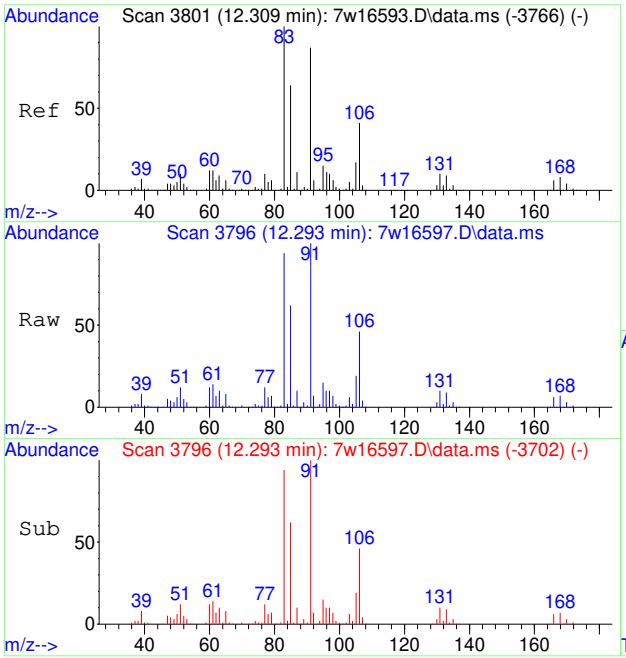


#84
BROMOFORM
Concen: 12.55 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:173 Resp: 265221

Ion	Ratio	Lower	Upper
173	100		
175	50.7	35.1	65.1
254	9.9	6.7	12.5

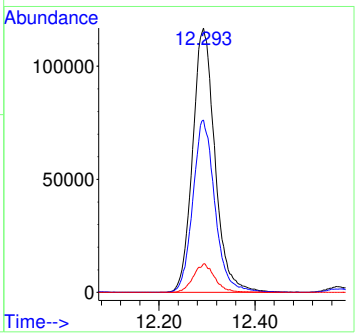


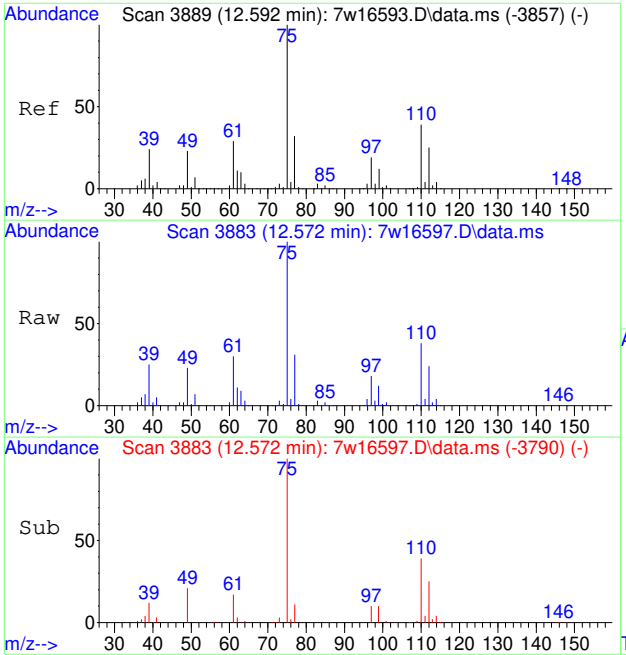


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 11.92 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 376337

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.5	7.3	13.5

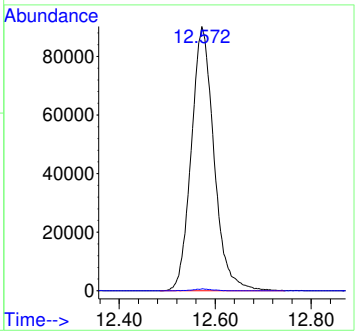


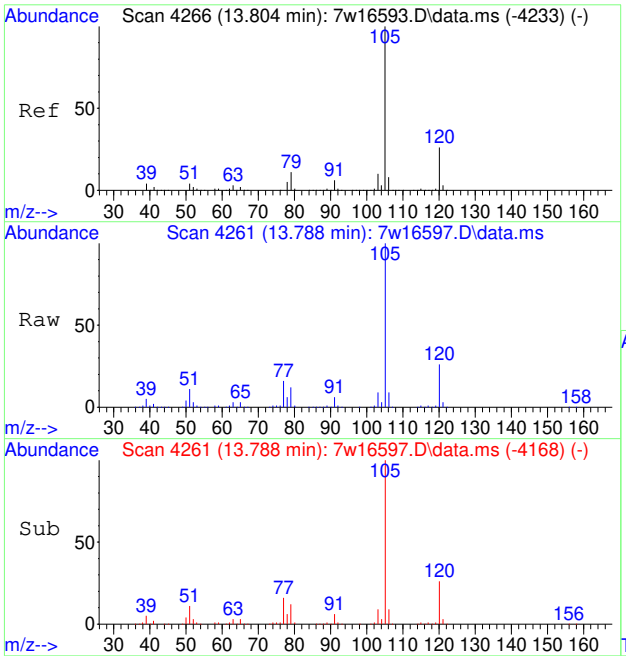


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.97 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 296228

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

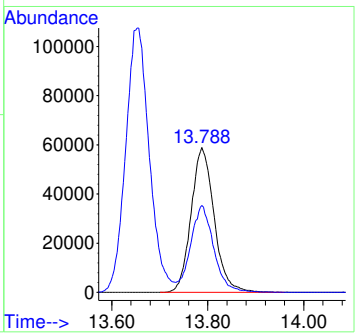


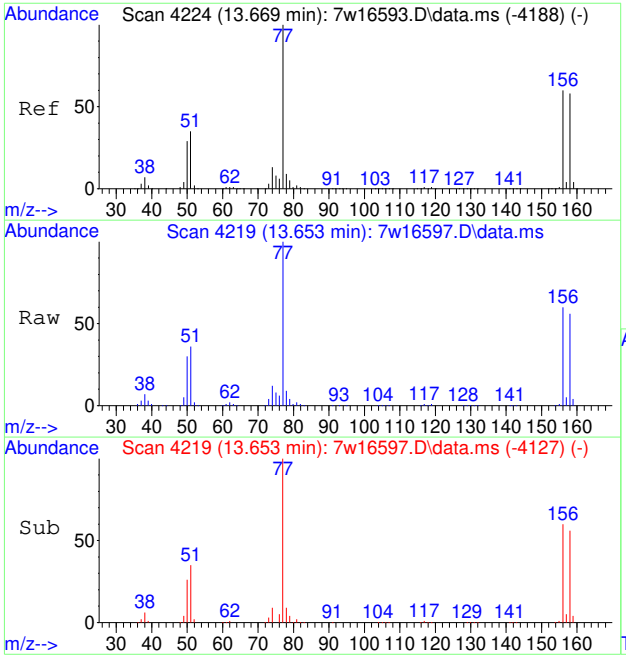


#88
ISOPROPYLBENZENE
Concen: 11.70 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 196063

Ion	Ratio	Lower	Upper
120	100		
77	60.5	42.5	78.9

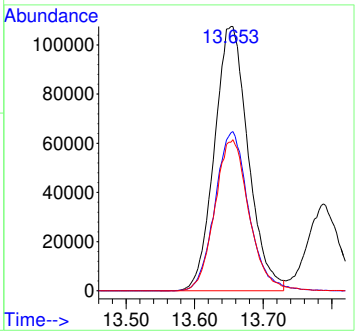


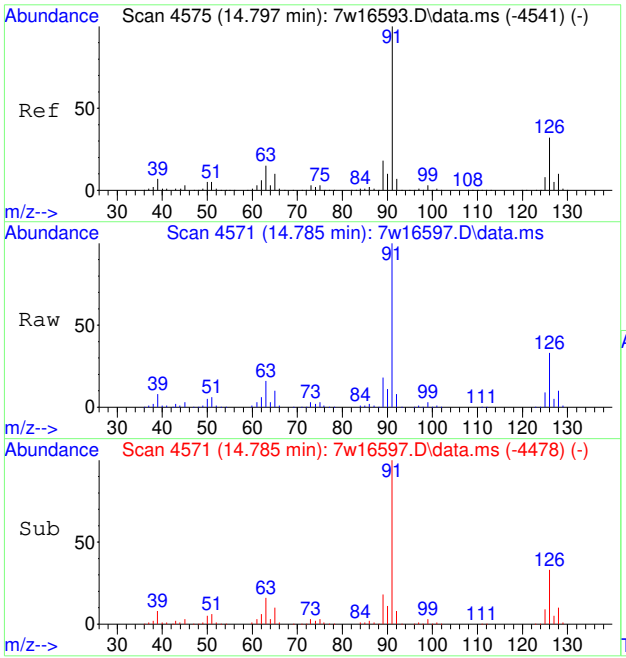


#89
BROMOBENZENE
Concen: 11.46 PPBV
RT: 13.653 min Scan# 4219
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 77 Resp: 368714

Ion	Ratio	Lower	Upper
77	100		
156	60.3	42.4	78.8
158	57.9	40.9	76.0

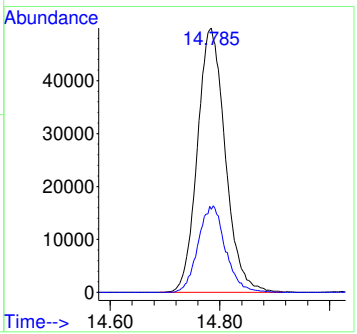


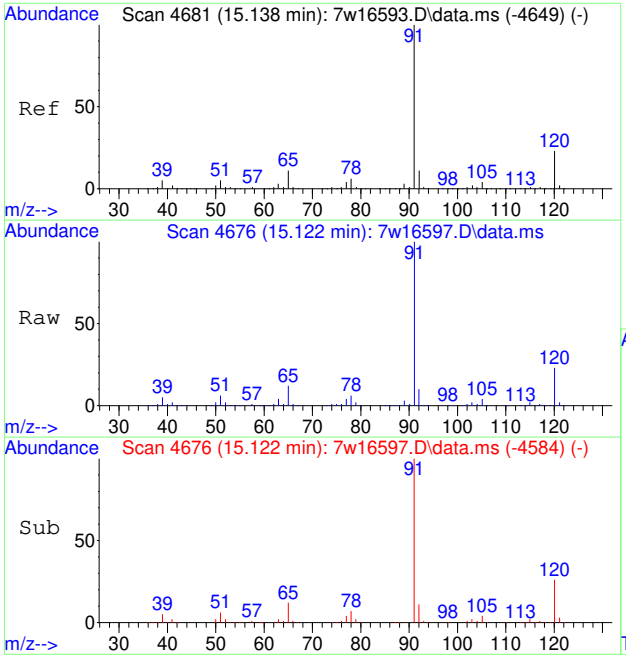


#90
2-CHLOROTOLUENE
Concen: 11.26 PPBV
RT: 14.785 min Scan# 4571
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:126 Resp: 175998

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

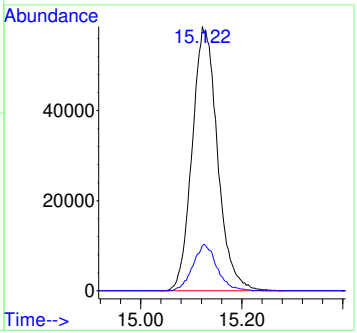


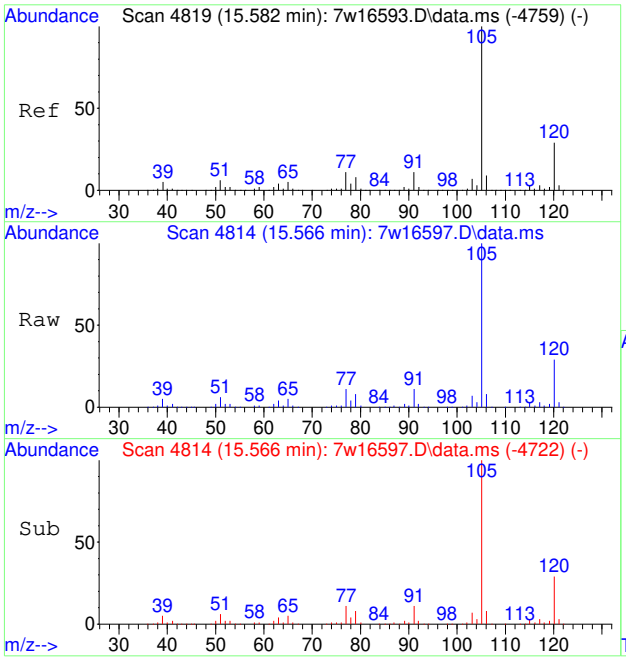


#91
N-PROPYLBENZENE
Concen: 11.48 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 204116

Ion	Ratio	Lower	Upper
120	100		
105	16.8	11.5	21.5

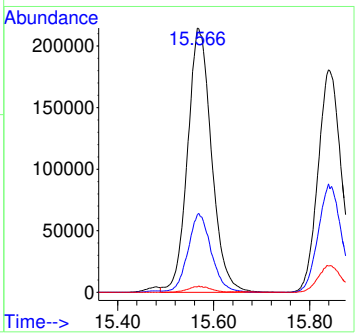


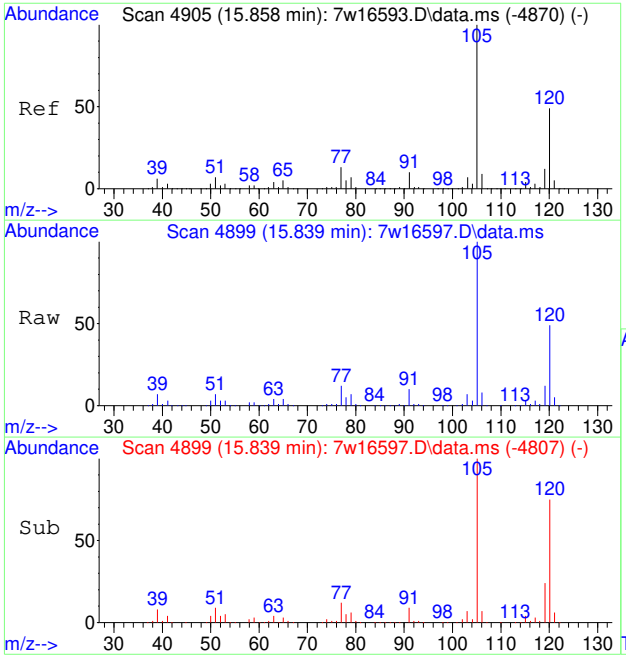


#92
4-ETHYLTOLUENE
Concen: 11.28 PPBV
RT: 15.566 min Scan# 4814
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 742534

Ion	Ratio	Lower	Upper
105	100		
120	29.5	20.7	38.5
119	2.3	1.6	3.0

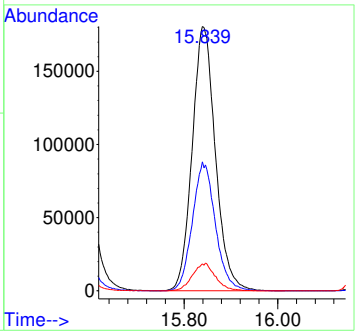


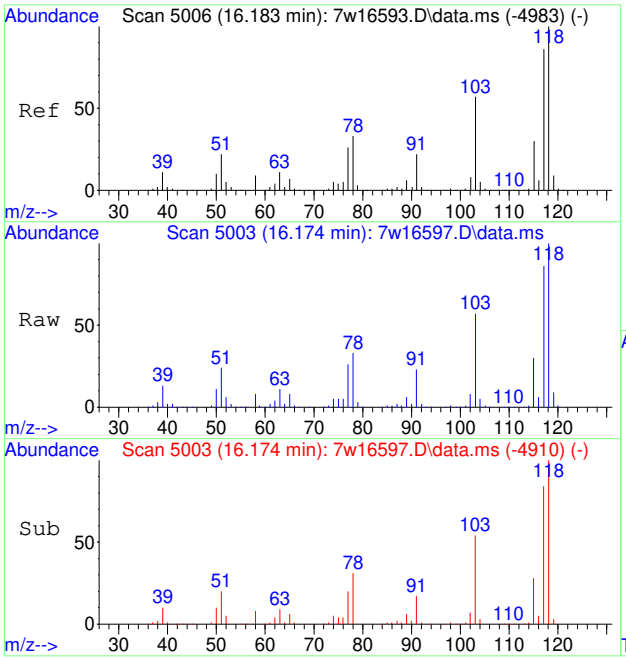


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.36 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 622476

Ion	Ratio	Lower	Upper
105	100		
120	48.2	34.0	63.2
91	10.4	7.3	13.7

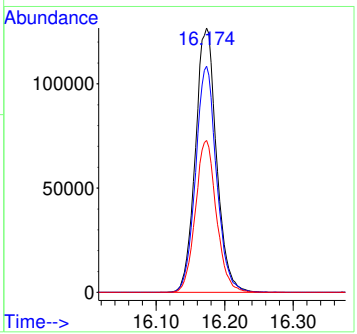


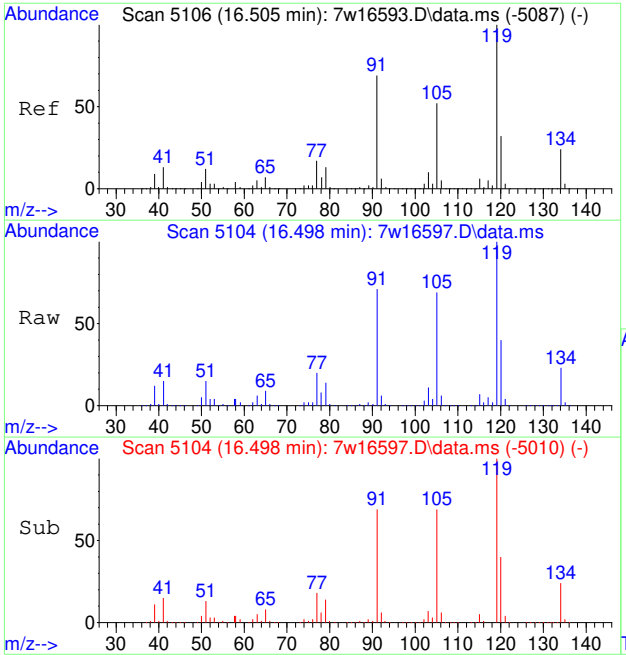


#94
ALPHA-METHYLSTYRENE
Concen: 10.00 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:118 Resp: 271625

Ion	Ratio	Lower	Upper
118	100		
117	84.6	59.6	110.8
103	57.1	40.3	74.9

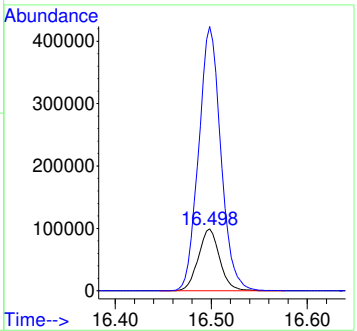


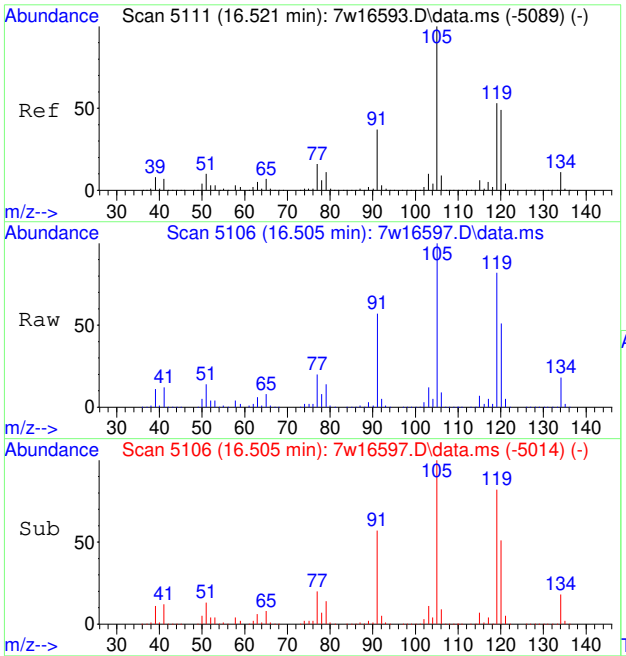


#95
TERT-BUTYLBENZENE
Concen: 11.43 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 152633

Ion	Ratio	Lower	Upper
134	100		
119	446.8	311.3	578.1

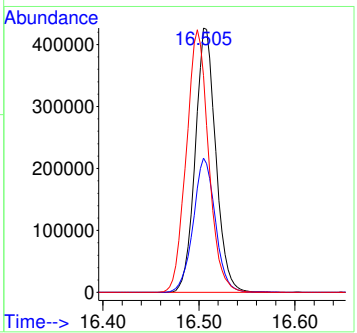


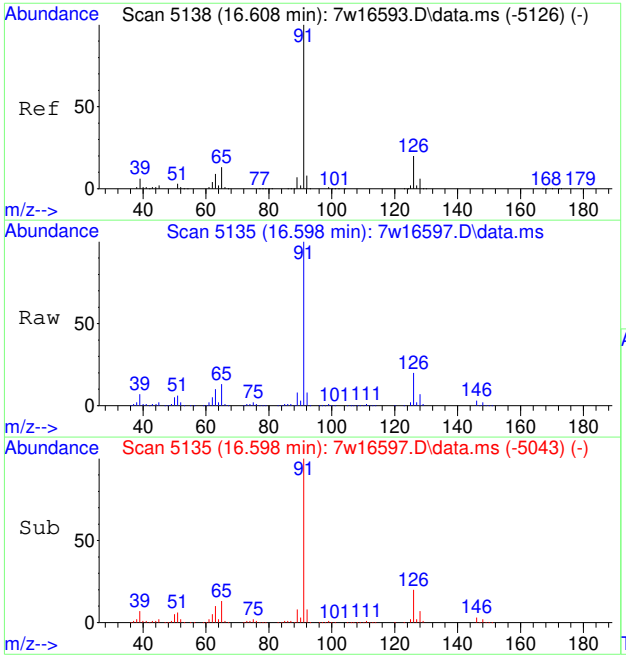


#96
1,2,4-TRIMETHYLBENZENE
Concen: 11.67 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 633879

Ion	Ratio	Lower	Upper
105	100		
120	54.8	37.9	70.5
119	107.6	74.3	137.9

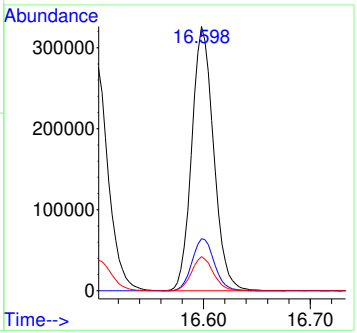


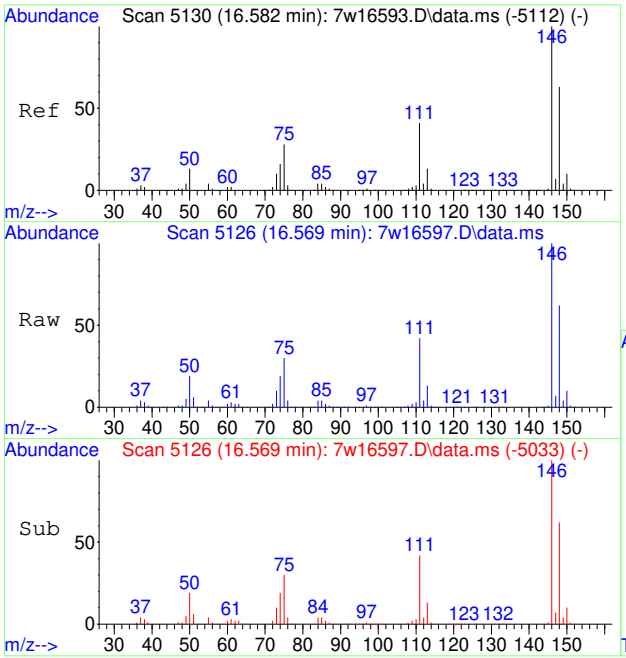


#97
BENZYL CHLORIDE
Concen: 10.58 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 464197

Ion	Ratio	Lower	Upper
91	100		
126	20.2	14.3	26.5
65	12.8	9.2	17.0

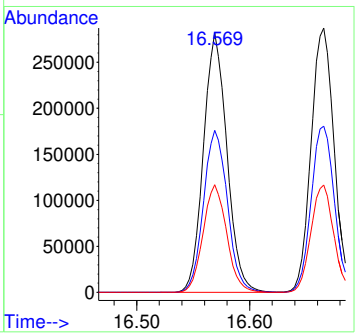


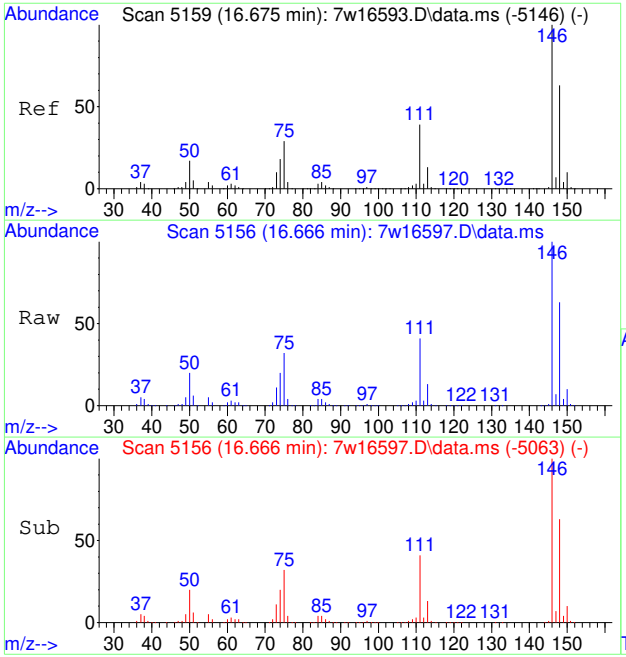


#98
M-DICHLOROBENZENE
Concen: 10.91 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 406824

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.6	82.8
111	41.7	29.3	54.3

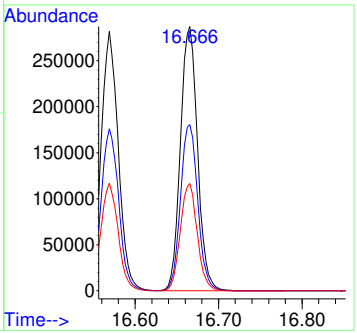


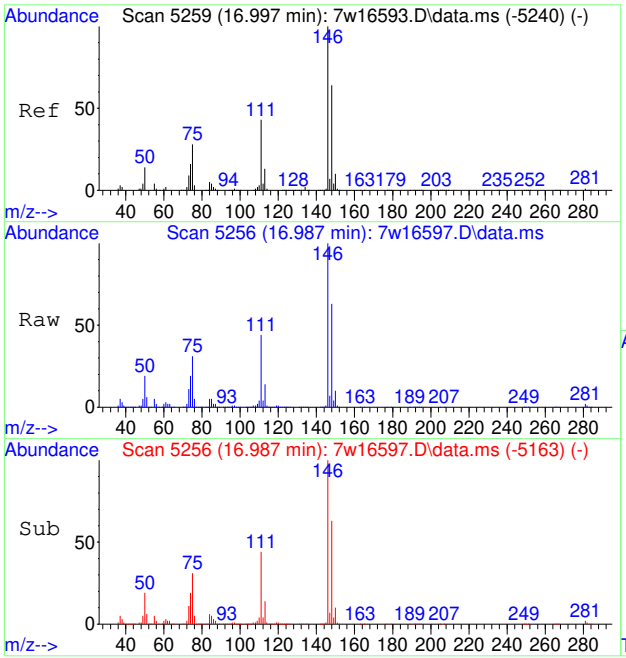


#99
P-DICHLOROBENZENE
Concen: 11.12 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 408776

Ion	Ratio	Lower	Upper
146	100		
148	63.5	44.2	82.2
111	40.2	28.0	52.0

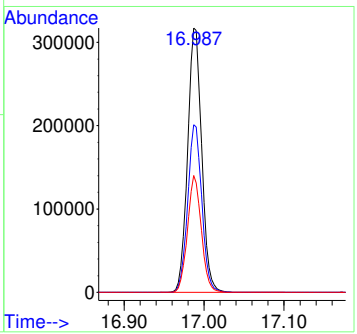


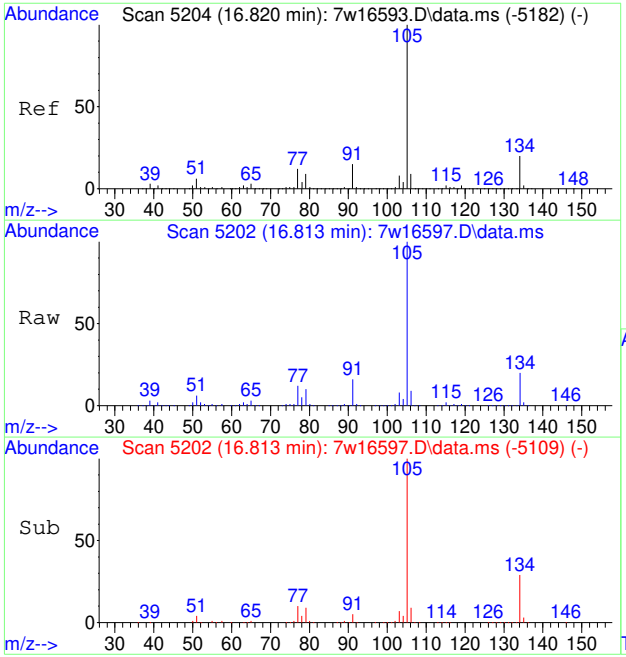


#100
O-DICHLOROBENZENE
Concen: 11.22 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 388114

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	43.4	30.4	56.4

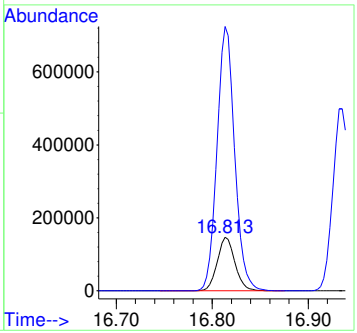


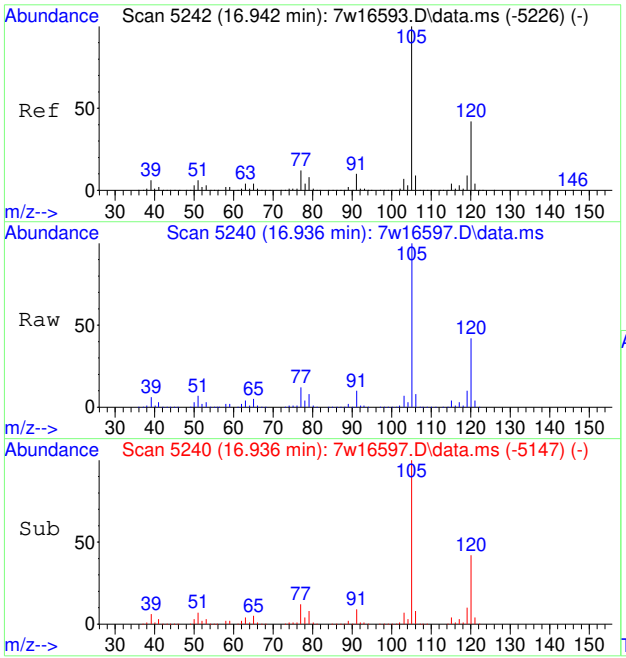


#101
SEC-BUTYLBENZENE
Concen: 11.81 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 187876

Ion	Ratio	Lower	Upper
134	100		
105	493.2	344.8	640.3

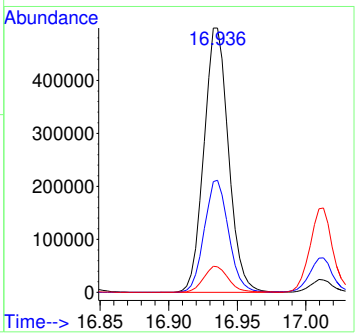


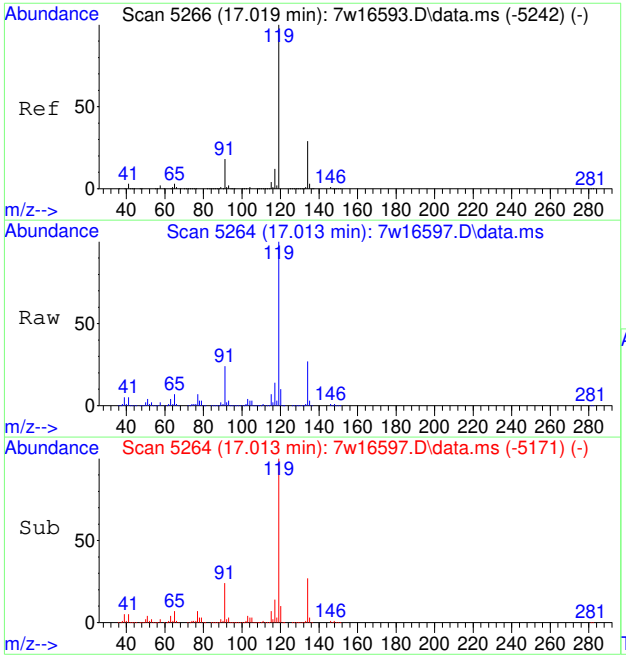


#102
1,2,3-TRIMETHYLBENZENE
Concen: 11.41 PPBV
RT: 16.936 min Scan# 5240
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 621174

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	10.0	7.0	13.0

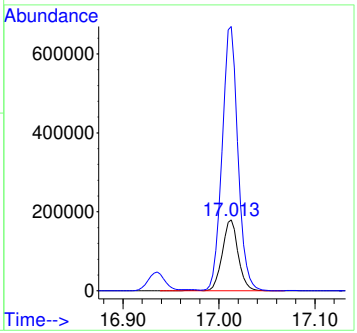


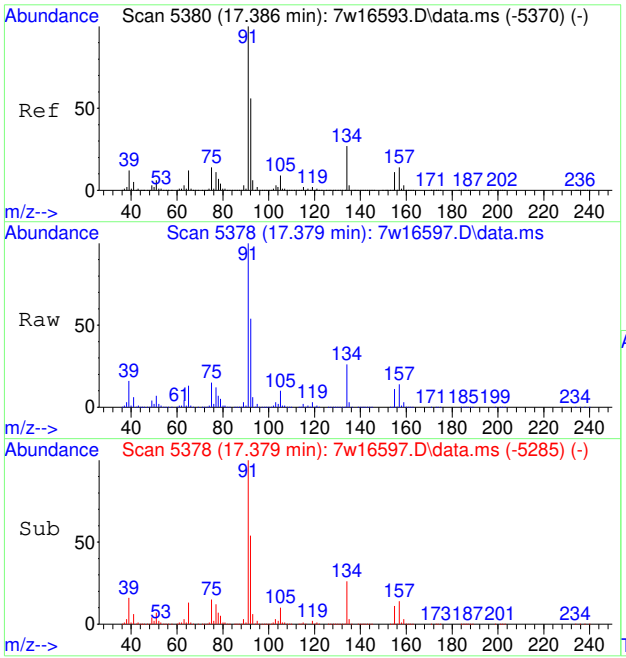


#103
P-ISOPROPYLTOLUENE
Concen: 11.68 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 206409

Ion	Ratio	Lower	Upper
134	100		
119	372.6	261.4	485.4

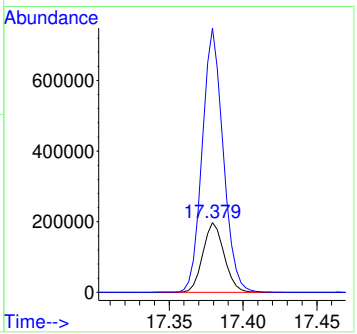


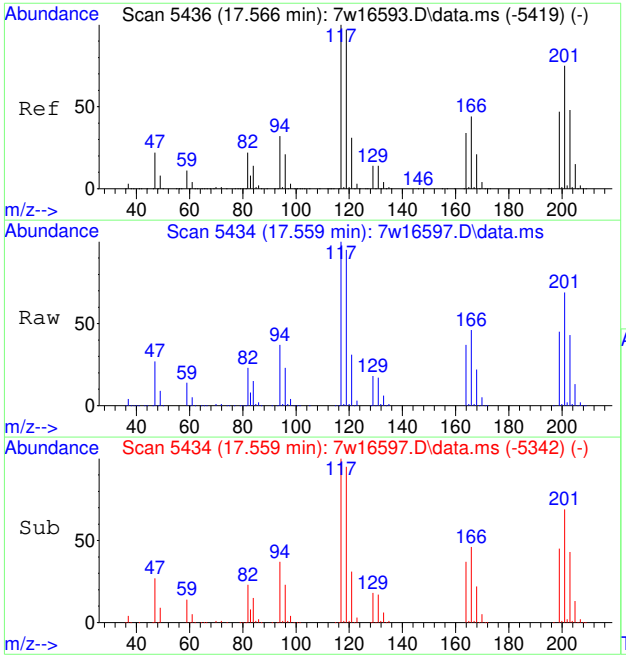


#104
N-BUTYLBENZENE
Concen: 11.69 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 197029

Ion	Ratio	Lower	Upper
134	100		
91	373.5	261.0	484.8

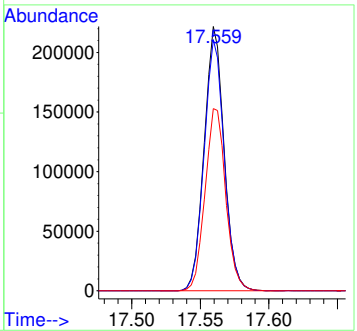


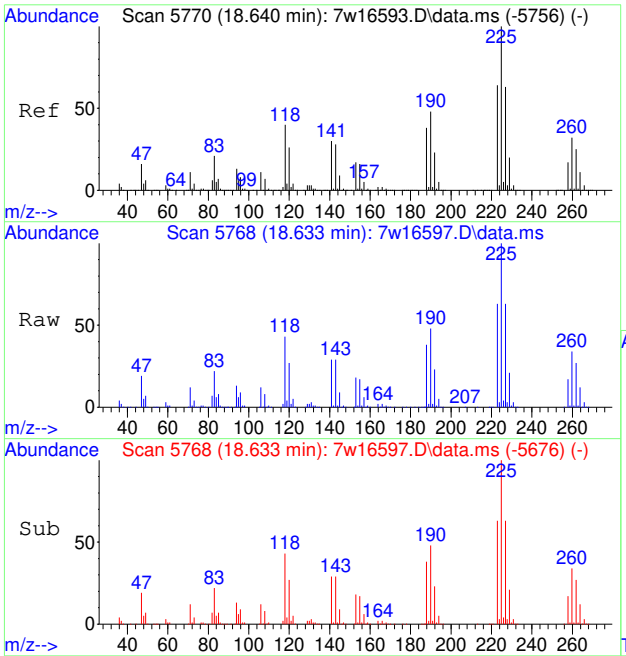


#105
HEXACHLOROETHANE
Concen: 10.80 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 224249

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	71.3	49.8	92.6

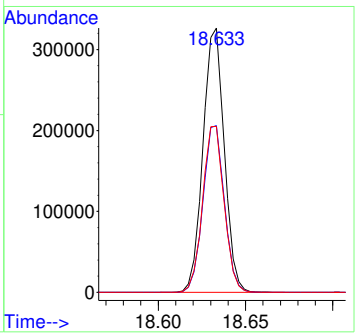


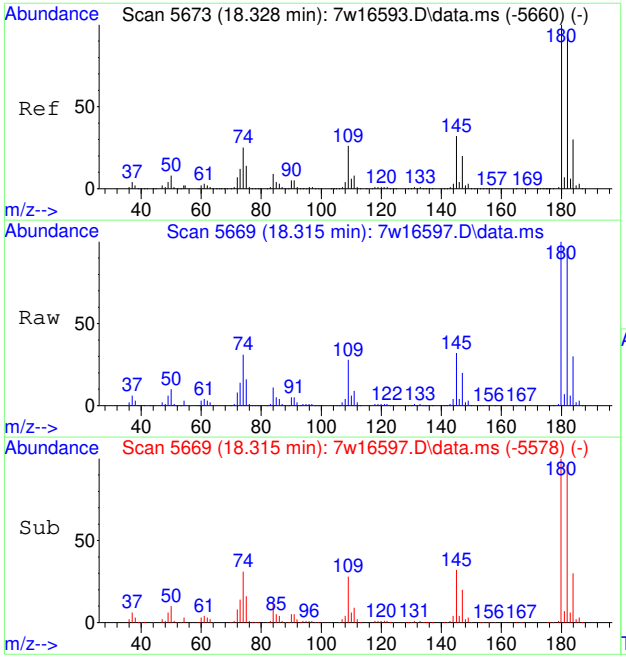


#106
HEXACHLOROBUTADIENE
Concen: 11.26 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:225 Resp: 277087

Ion	Ratio	Lower	Upper
225	100		
227	63.4	44.6	82.8
223	63.5	44.6	82.8

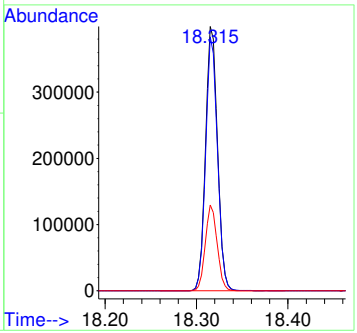


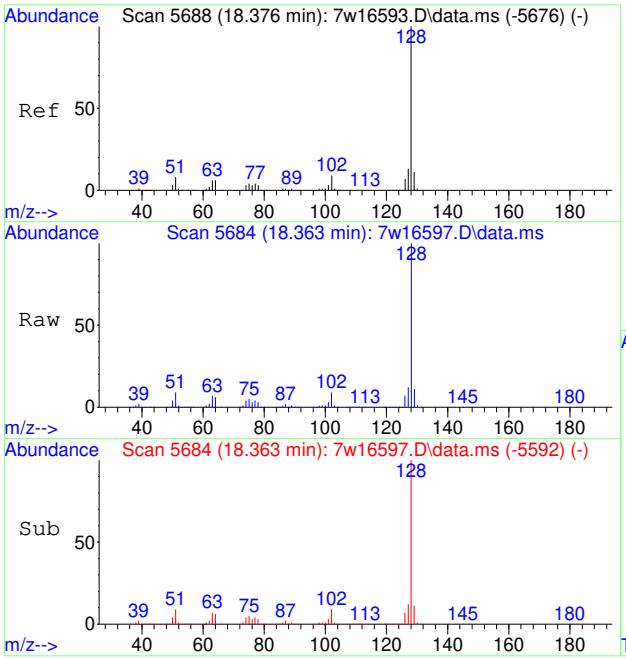


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.29 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:180 Resp: 362853

Ion	Ratio	Lower	Upper
180	100		
182	95.0	66.6	123.6
145	32.1	22.5	41.9

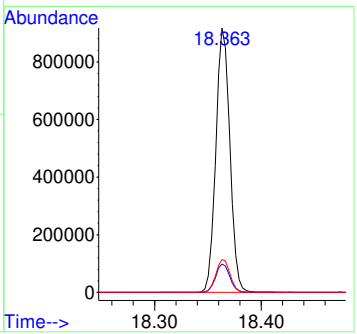


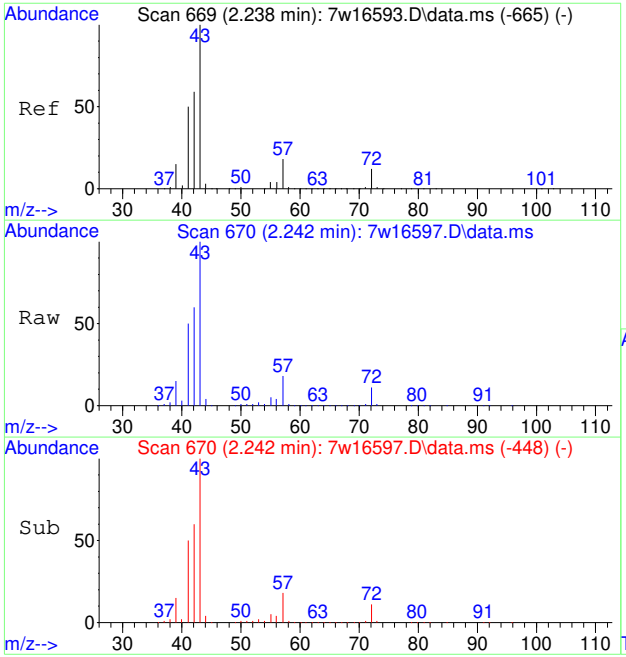


#108
NAPHTHALENE
Concen: 12.65 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:128 Resp: 837609

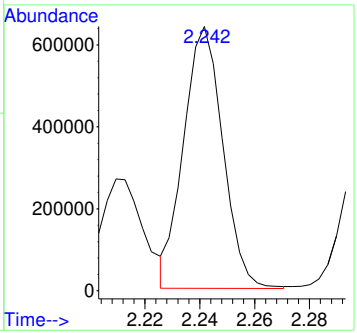
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.6	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 10.37 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:TIC Resp: 634578



Manual Integration Approval Summary

Sample Number: V7W577-ICV577
Lab FileID: 7W16597.D
Injection Time: 08/07/25 18:07

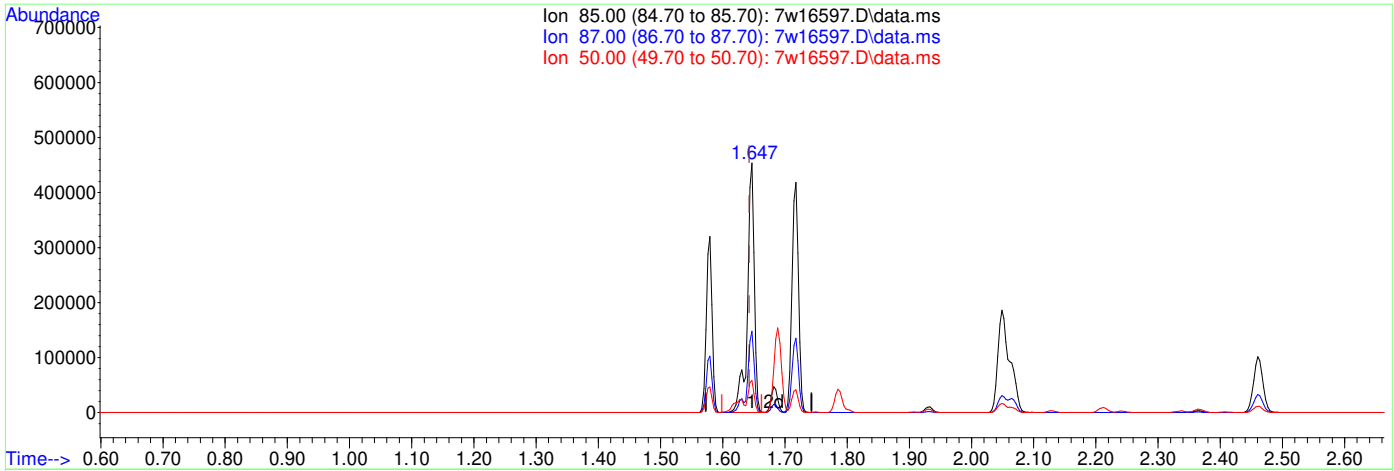
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

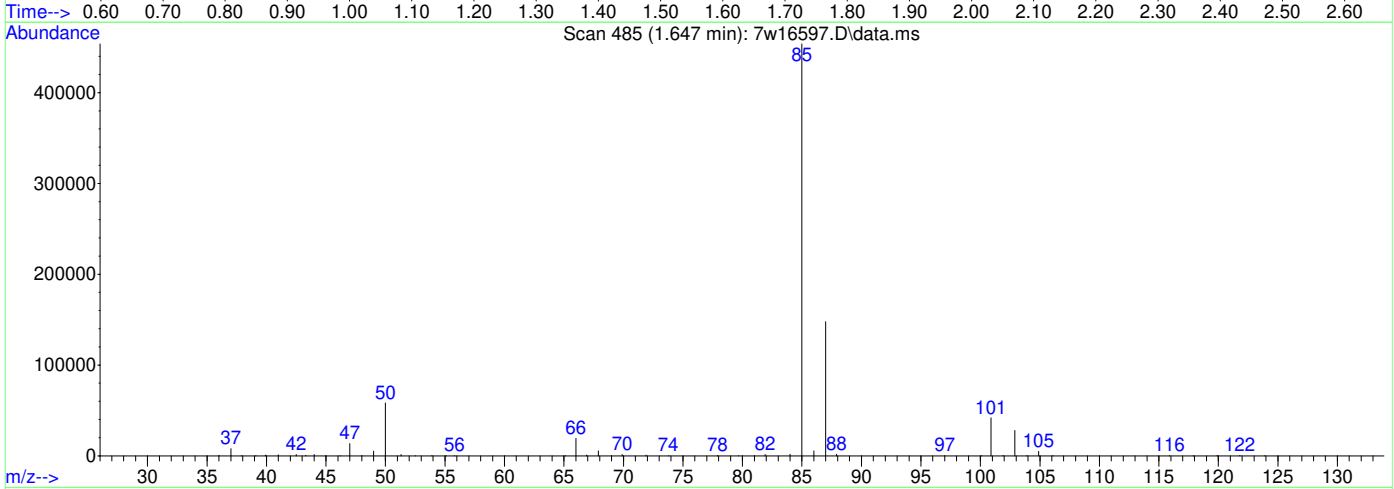
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.49PPBV

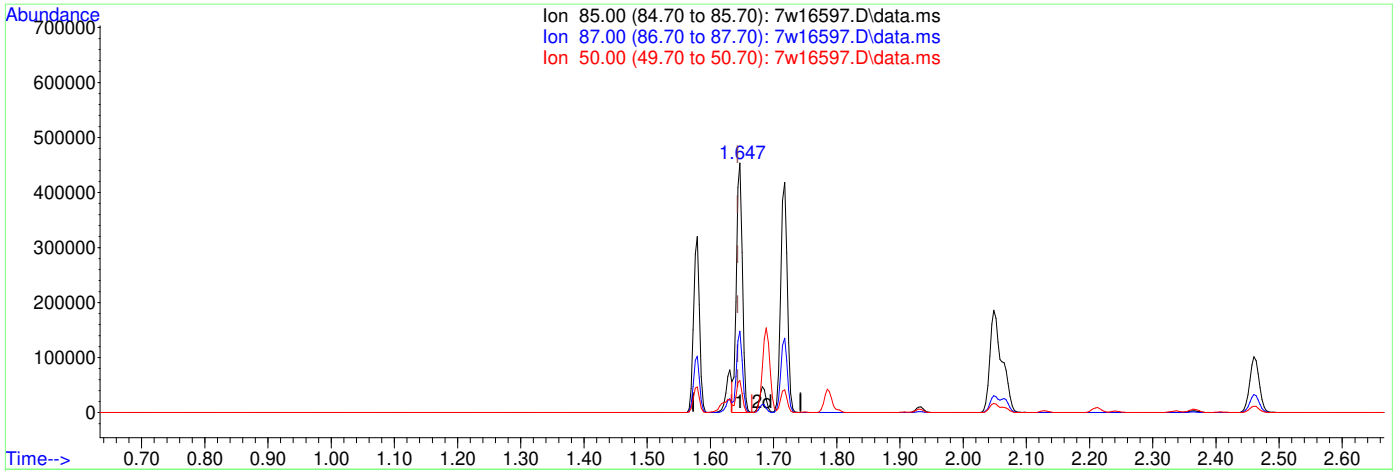
response 350117

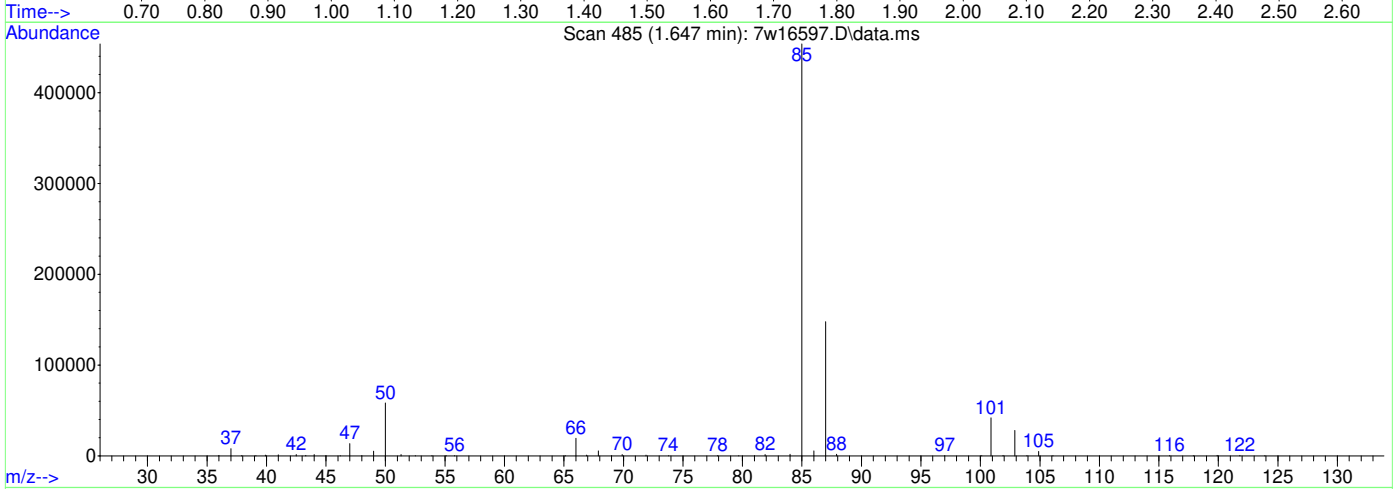
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.48
50.00	19.30	18.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 11.58PPBV m

response 300519

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.84
50.00	19.30	21.93
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	116358	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	571811	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	520899	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	116358	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	419664	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	163088	11.5539	PPBV		99
3) FREON 152A	1.608	65	78406	10.7669	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	33446	10.5791	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	175760	11.5540	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.647	85	290630m	10.4293	PPBV		
7) PROPYLENE	1.631	41	95474	10.1297	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.685	65	251622	10.1488	PPBV		98
9) FREON 114	1.717	85	287996	10.0264	PPBV		99
10) CHLOROMETHANE	1.688	52	32928	8.2395	PPBV		99
11) VINYL CHLORIDE	1.750	62	117529m	8.3053	PPBV		
12) 1,3-BUTADIENE	1.788	54	94511	8.4555	PPBV		99
13) N-BUTANE	1.801	43	162747	8.6049	PPBV	#	99
14) BROMOMETHANE	1.862	94	104528	9.5260	PPBV		99
15) CHLOROETHANE	1.910	64	64945	8.4552	PPBV		98
16) DICHLOROFLUOROMETHANE	1.933	67	245173	9.2174	PPBV		99
17) ACETONITRILE	1.997	41	92860	7.0259	PPBV		100
18) ACROLEIN	2.039	56	51884	8.2638	PPBV		96
19) FREON 123	2.052	83	271349	10.1251	PPBV		99
20) FREON 123A	2.068	117	167245	10.5339	PPBV		92
21) TRICHLOROFLUOROMETHANE	2.132	101	315449	10.4227	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	235756	9.1923	PPBV		97
23) ACETONE	2.074	58	61465	8.7655	PPBV		95
24) PENTANE	2.245	42	119731	8.6199	PPBV		97
25) IODOMETHANE	2.306	142	302044	10.8471	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.331	96	113502	9.8382	PPBV		92
27) CARBON DISULFIDE	2.466	76	295672	9.0324	PPBV		99
28) ETHANOL	1.936	45	59610	8.7303	PPBV		99
29) BROMOETHENE	2.007	106	107454	9.7540	PPBV		99
30) ACRYLONITRILE	2.212	52	90680	9.1962	PPBV		99
31) METHYLENE CHLORIDE	2.370	84	100570	8.8927	PPBV		93
32) 3-CHLOROPROPENE	2.412	76	53228	8.6257	PPBV		93
33) FREON 113	2.463	151	192366	11.0698	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	109522	8.6284	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.341	59	225238	7.0292	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.794	73	341132	9.4479	PPBV		99
37) TETRAHYDROFURAN	3.470	72	54436	9.2961	PPBV		95
38) HEXANE	3.241	57	232201	9.5475	PPBV		98
39) VINYL ACETATE	2.830	86	33655	9.6975	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	237635	9.6844	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	63349	9.5459	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	132822	10.0880	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	63810	9.2540	PPBV		100
44) ETHYL ACETATE	3.251	61	46222	9.9155	PPBV		95
45) METHYL ACRYLATE	3.238	55	279714	9.5047	PPBV	#	100
46) CHLOROFORM	3.264	83	263663	10.3820	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	269103	9.8861	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.823	97	276035	10.3131	PPBV		98
49) CARBON TETRACHLORIDE	4.241	117	297702	10.7365	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	188951	9.5709	PPBV		98
51)	BENZENE	4.129	78	381313	9.7878	PPBV		98
53)	CYCLOHEXANE	4.335	84	171831	10.2715	PPBV		97
54)	2,3-DIMETHYLPENTANE	4.589	71	88073	10.5570	PPBV		96
55)	TRICHLOROETHENE	5.016	95	178344	10.0006	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	154813	9.8220	PPBV		98
57)	DIBROMOMETHANE	4.743	174	188737	12.4198	PPBV		83
58)	ETHYL ACRYLATE	4.900	55	346044	9.8087	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	296039	10.2746	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	724407	9.3827	PPBV		100
61)	1,4-DIOXANE	5.026	88	84481	10.0079	PPBV		99
62)	HEPTANE	5.421	43	242704	9.5206	PPBV		99
63)	METHYL METHACRYLATE	5.318	69	141707	9.8923	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.042	58	136844	8.9515	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	241996	10.0129	PPBV		96
66)	TOLUENE	7.132	91	473872	10.4370	PPBV		100
67)	1,3-DICHLOROPROPANE	7.190	76	243885	10.7144	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	209221	9.5814	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	138459	10.7019	PPBV		98
70)	2-HEXANONE	7.695	58	182994	8.5789	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	239373	10.0176	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	212743	12.8459	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.659	129	308693	11.7409	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	262168	11.2010	PPBV	#	100
75)	OCTANE	8.997	43	337681	9.8888	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	210593	11.2663	PPBV		98
78)	CHLOROBENZENE	10.048	112	390632	10.9774	PPBV		99
79)	ETHYLBENZENE	10.923	91	645828	11.0755	PPBV		100
80)	M,P-XYLENE	11.350	91	1003032	21.2340	PPBV		99
81)	O-XYLENE	12.280	91	508409	11.0892	PPBV		99
82)	STYRENE	12.067	104	391110	11.3791	PPBV		100
83)	NONANE	13.402	43	357527	10.0182	PPBV		99
84)	BROMOFORM	11.161	173	339077	15.4206	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	359106	10.9346	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	284105	11.0378	PPBV		100
88)	ISOPROPYLBENZENE	13.784	120	187852	10.7786	PPBV		100
89)	BROMOBENZENE	13.649	77	350259	10.4642	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	174412	10.7299	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	200624	10.8459	PPBV		100
92)	4-ETHYLTOLUENE	15.572	105	742643	10.8486	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	627675	11.0172	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.177	118	303322	10.7352	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	142496	10.2586	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	636713	11.2732	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	447528	9.8079	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	414699	10.6869	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	418016	10.9323	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	390320	10.8435	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	174245	10.5345	PPBV		89
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	612606	10.8197	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	192380	10.4645	PPBV		89
104)	N-BUTYLBENZENE	17.379	134	188579	10.7594	PPBV		93
105)	HEXACHLOROETHANE	17.556	117	249595	11.5593	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.623	225	486999	19.0236	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	498080	16.2228	PPBV		97
108)	NAPHTHALENE	18.360	128	949889	13.7917	PPBV		99
110)	TVHC as equiv Pentane	2.245	TIC	588522	8.9611	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

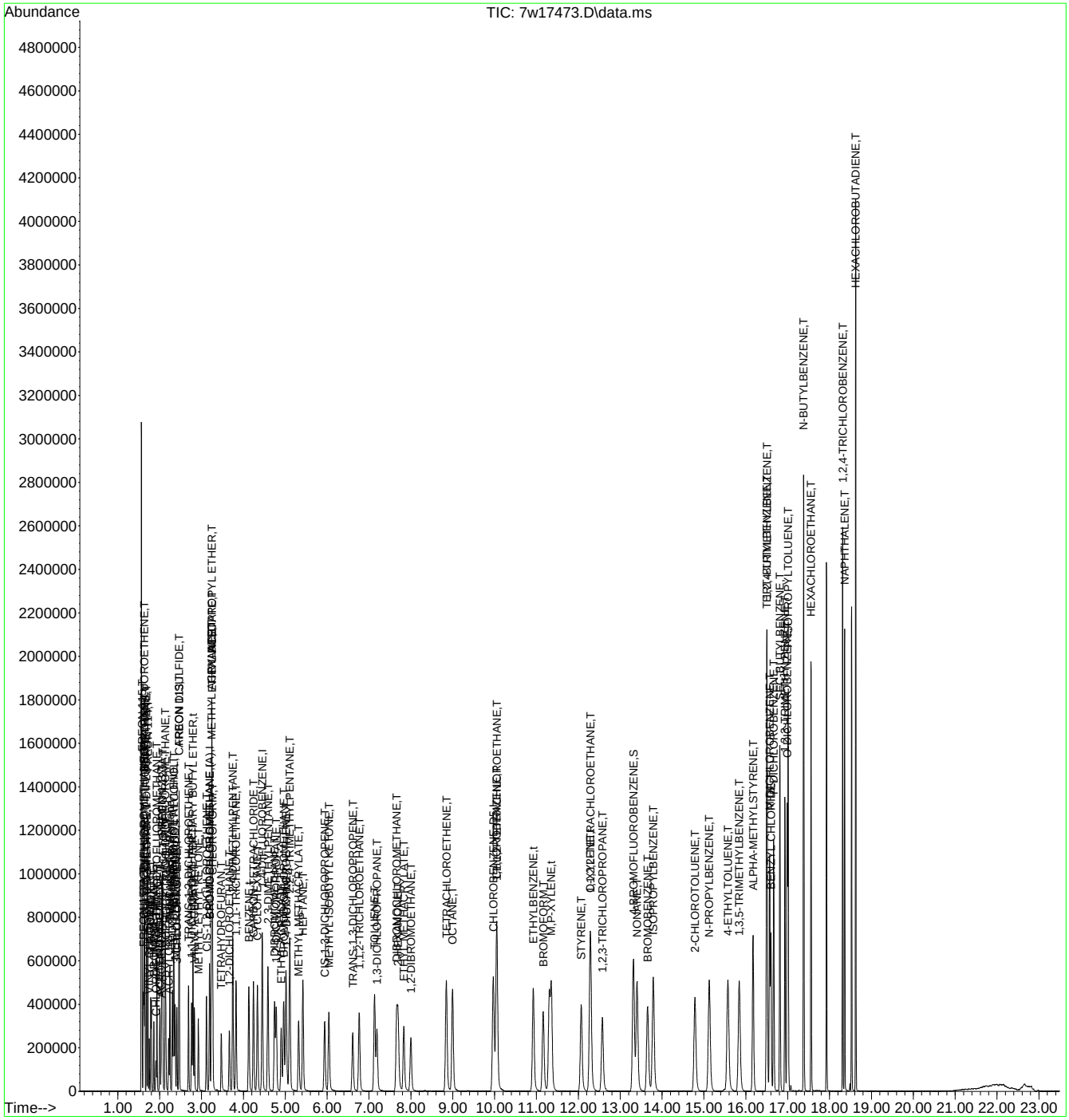
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

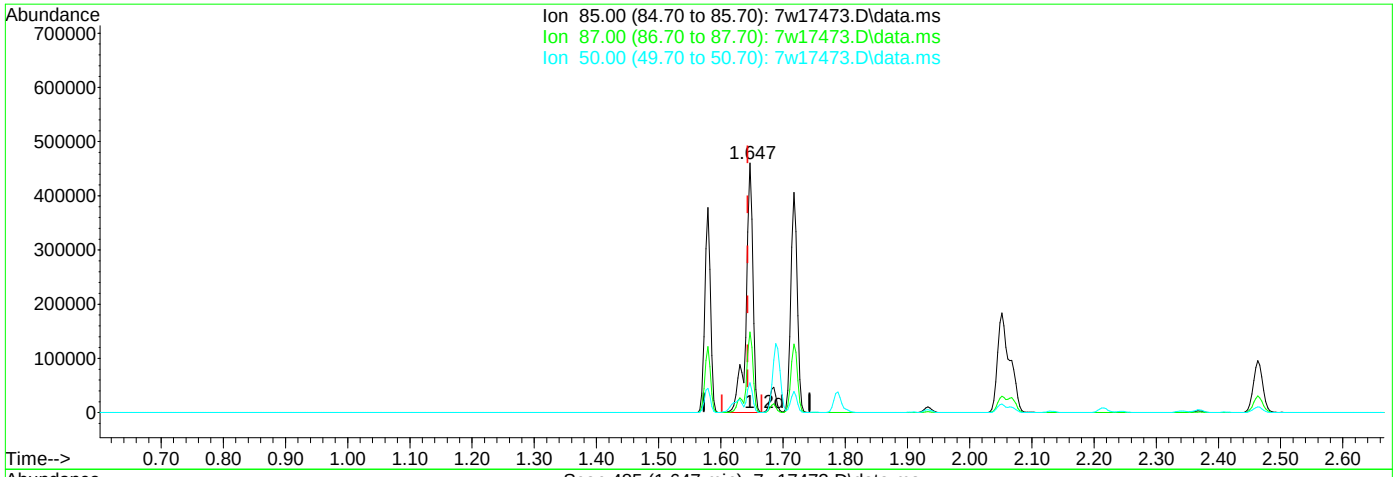
Sample Number: V7W613-CC577 **Method:** TO-15
Lab FileID: 7W17473.D **Analyst approved:** 09/29/25 13:49 Kristel Valladolid
Injection Time: 09/26/25 11:04 **Supervisor approved:** 09/29/25 15:16 Kanya Veerawat

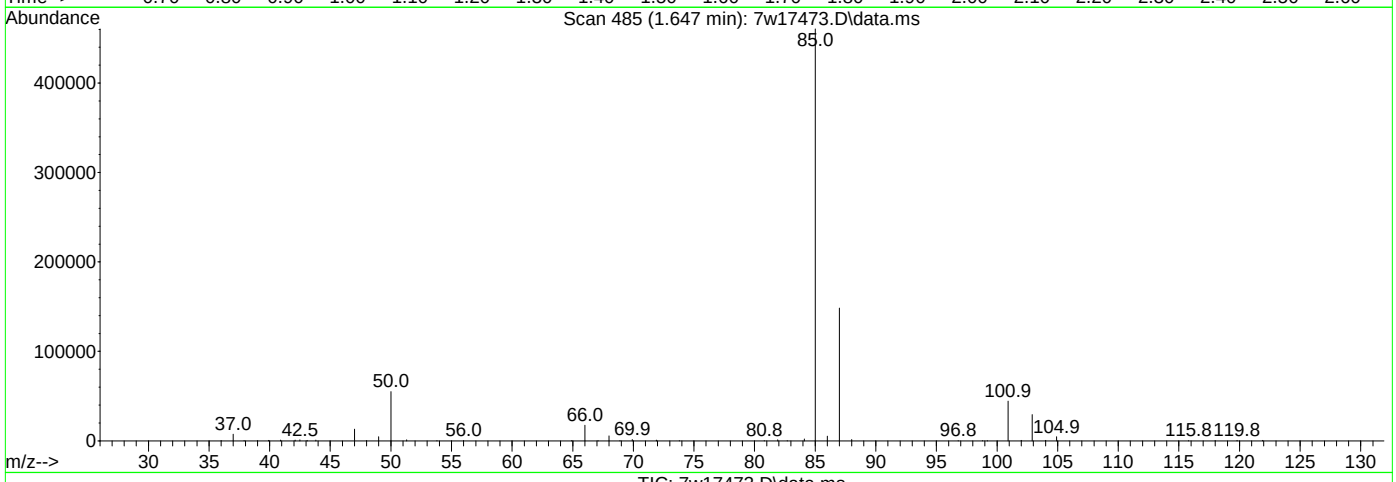
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

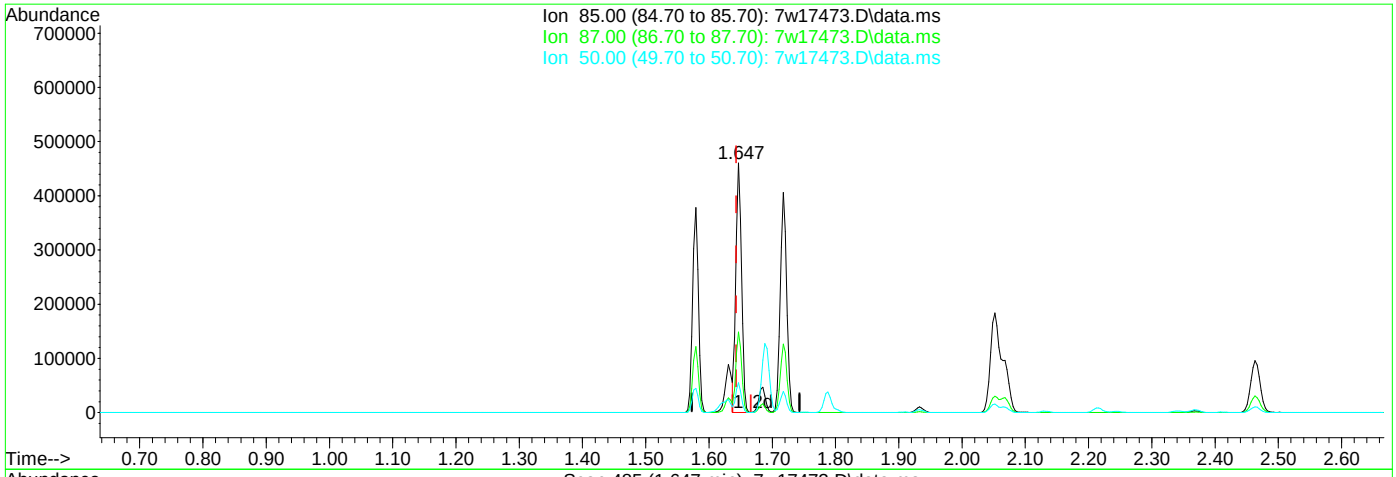
response 355281

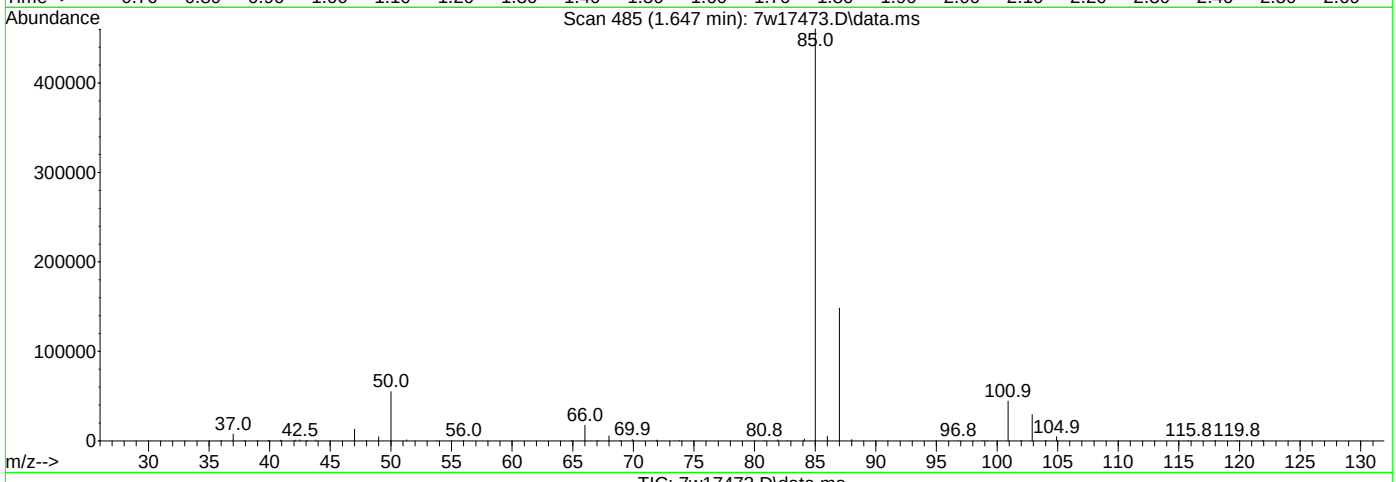
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.57
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.43PPBV m

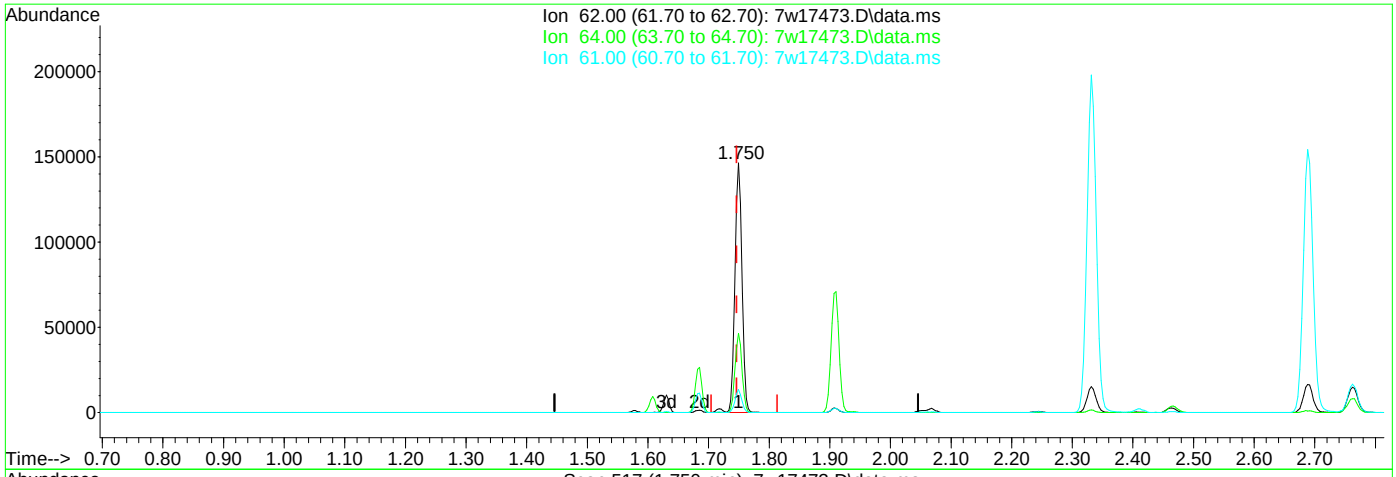
response 290630

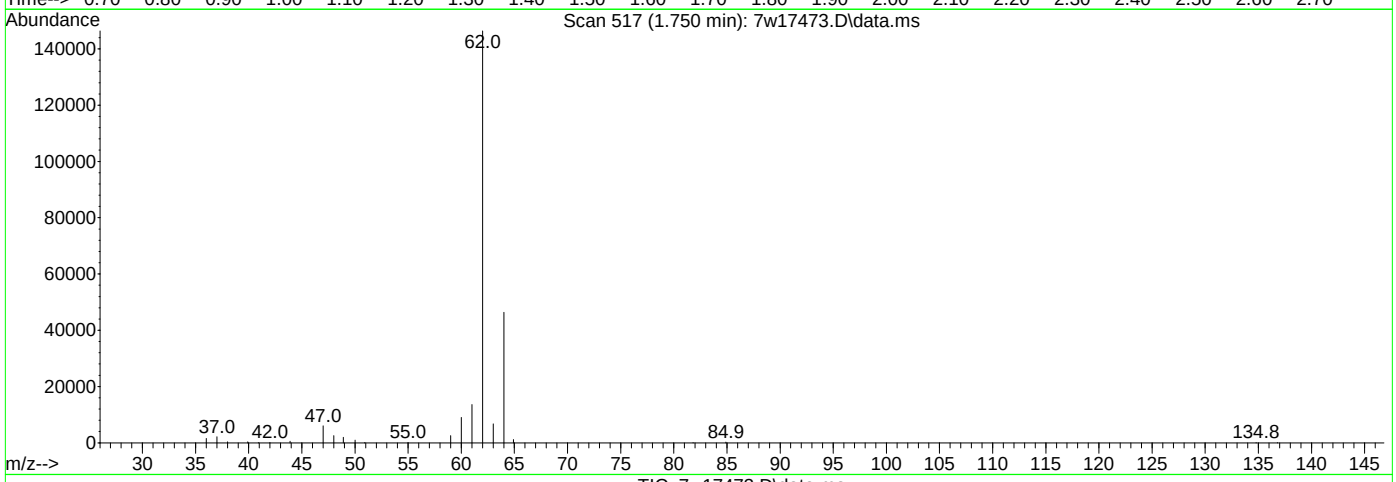
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.81
50.00	19.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.43PPBV

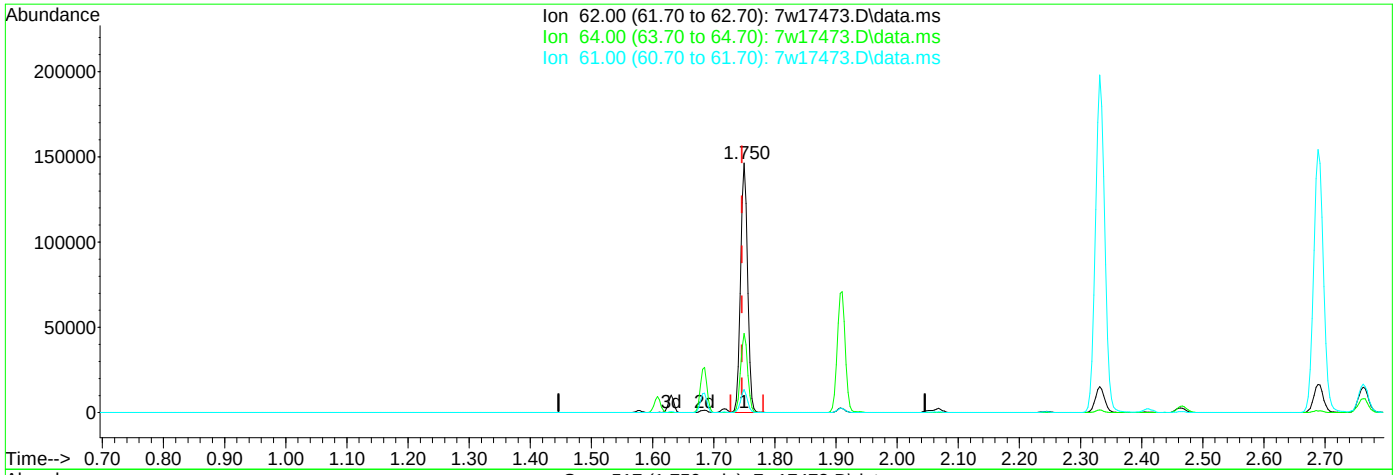
response 119282

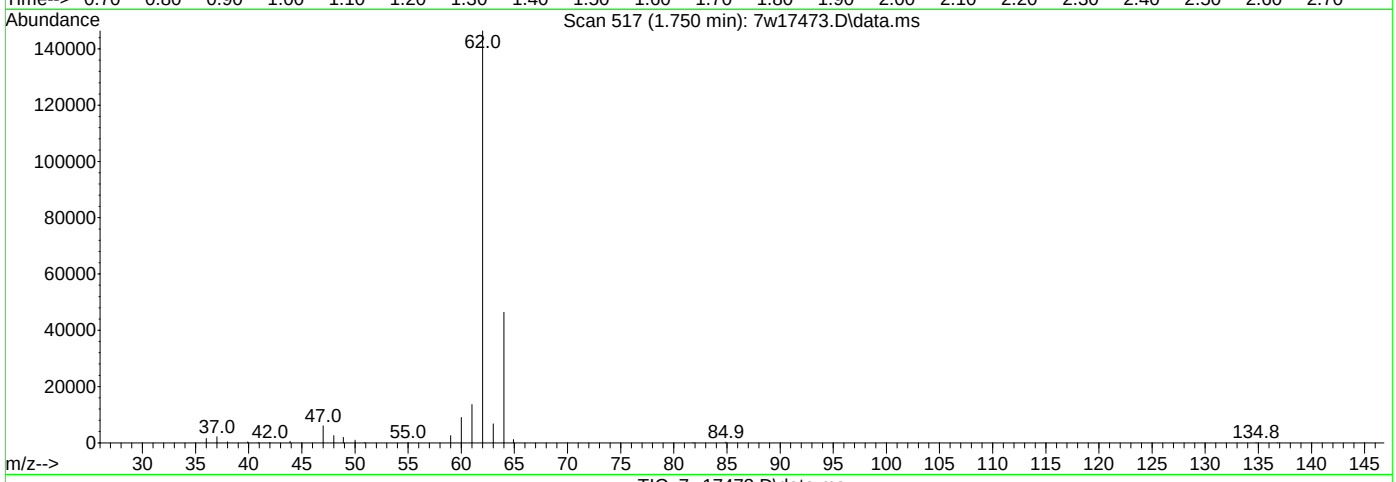
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.24
61.00	8.10	8.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.31PPBV m

response 117529

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.70
61.00	8.10	8.97
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	133953	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659891	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	616286	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133953	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	503374	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	177470	10.9213	PPBV		100
3) FREON 152A	1.605	65	90758	10.8260	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	39420	10.8310	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.627	116	194541	11.1088	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	337777m	10.5290	PPBV		
7) PROPYLENE	1.627	41	108538	10.0032	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	299323	10.4870	PPBV		99
9) FREON 114	1.714	85	325416	9.8410	PPBV		98
10) CHLOROMETHANE	1.688	52	38366	8.3392	PPBV		97
11) VINYL CHLORIDE	1.746	62	139139m	8.5409	PPBV		
12) 1,3-BUTADIENE	1.785	54	109057	8.4753	PPBV		98
13) N-BUTANE	1.801	43	189643	8.7099	PPBV		100
14) BROMOMETHANE	1.859	94	118438	9.3759	PPBV		100
15) CHLOROETHANE	1.907	64	75846	8.5774	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	291881	9.5320	PPBV		99
17) ACETONITRILE	1.997	41	106769	7.0172	PPBV		99
18) ACROLEIN	2.032	56	59014	8.1648	PPBV		97
19) FREON 123	2.049	83	307928	9.9807	PPBV		98
20) FREON 123A	2.065	117	191785	10.4929	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.129	101	361225	10.3675	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	295804	10.0186	PPBV		98
23) ACETONE	2.071	58	72600	8.9935	PPBV		94
24) PENTANE	2.241	42	134532	8.4133	PPBV		94
25) IODOMETHANE	2.303	142	343257	10.7080	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	131850	9.9274	PPBV		96
27) CARBON DISULFIDE	2.463	76	340942	9.0473	PPBV		99
28) ETHANOL	1.936	45	58995	7.5054	PPBV		99
29) BROMOETHENE	2.004	106	122429	9.6535	PPBV		99
30) ACRYLONITRILE	2.213	52	102848	9.0602	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	114935	8.8279	PPBV		92
32) 3-CHLOROPROPENE	2.409	76	61802	8.6996	PPBV		93
33) FREON 113	2.463	151	221690	11.0816	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.688	96	125441	8.5845	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	280149	7.5945	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.791	73	399208	9.6040	PPBV		100
37) TETRAHYDROFURAN	3.470	72	61872	9.1781	PPBV		98
38) HEXANE	3.241	57	266824	9.5301	PPBV		99
39) VINYL ACETATE	2.827	86	38741	9.6968	PPBV		94
40) 1,1-DICHLOROETHANE	2.762	63	263022	9.3110	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	70574	9.2377	PPBV		100
42) CIS-1,2-DICHLOROETHENE	3.116	96	150241	9.9121	PPBV		98
43) DIISOPROPYL ETHER	3.245	59	75359	9.4934	PPBV		96
44) ETHYL ACETATE	3.251	61	54193	10.0984	PPBV		90
45) METHYL ACRYLATE	3.235	55	329510	9.7261	PPBV	#	100
46) CHLOROFORM	3.264	83	301131	10.2998	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313300	9.9979	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	319066	10.3549	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	341442	10.6965	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224067	9.8589	PPBV		99
51)	BENZENE	4.129	78	427351	9.5286	PPBV		99
53)	CYCLOHEXANE	4.335	84	192042	9.9473	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.585	71	99357	10.3199	PPBV		99
55)	TRICHLOROETHENE	5.013	95	200744	9.7542	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181431	9.9743	PPBV		99
57)	DIBROMOMETHANE	4.746	174	218086	12.4356	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	407383	10.0060	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	336180	10.1104	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	841343	9.4428	PPBV		100
61)	1,4-DIOXANE	5.026	88	98685	10.1301	PPBV		99
62)	HEPTANE	5.418	43	279169	9.4893	PPBV		98
63)	METHYL METHACRYLATE	5.319	69	162132	9.8075	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.039	58	162679	9.2211	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	278200	9.9744	PPBV		97
66)	TOLUENE	7.129	91	538193	10.2715	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	272716	10.3818	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	244994	9.7221	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	157387	10.5412	PPBV		98
70)	2-HEXANONE	7.695	58	218019	8.8566	PPBV		97
71)	ETHYL METHACRYLATE	7.833	69	275154	9.9781	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	251471	13.1576	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.662	129	353185	11.6401	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	300394	11.1211	PPBV	#	99
75)	OCTANE	8.997	43	388518	9.8589	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	242787	10.9783	PPBV		97
78)	CHLOROBENZENE	10.045	112	443864	10.5427	PPBV		99
79)	ETHYLBENZENE	10.923	91	739788	10.7232	PPBV		99
80)	M,P-XYLENE	11.347	91	1153457	20.6391	PPBV		98
81)	O-XYLENE	12.273	91	584599	10.7774	PPBV		99
82)	STYRENE	12.067	104	445360	10.9519	PPBV		99
83)	NONANE	13.402	43	410336	9.7183	PPBV		98
84)	BROMOFORM	11.161	173	398925	15.3343	PPBV	#	96
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	414118	10.6580	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	327867	10.7664	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	214666	10.4107	PPBV		99
89)	BROMOBENZENE	13.649	77	401712	10.1439	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	197839	10.2874	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	227675	10.4033	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	857338	10.5856	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	716951	10.6365	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.173	118	346037	10.3514	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	159454	9.7027	PPBV		83
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	732817	10.9666	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	536086	9.9303	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	474032	10.3252	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	478030	10.5669	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	449579	10.5567	PPBV		98
101)	SEC-BUTYLBENZENE	16.813	134	199209	10.1797	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	704353	10.5147	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	218072	10.0260	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	212975	10.2706	PPBV		90
105)	HEXACHLOROETHANE	17.556	117	276086	10.8071	PPBV	#	85
106)	HEXACHLOROBUTADIENE	18.620	225	558862	18.4519	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.308	180	562805	15.4937	PPBV		97
108)	NAPHTHALENE	18.357	128	1051771	12.9074	PPBV		99
110)	TVHC as equiv Pentane	2.241	TIC	662208	8.7586	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
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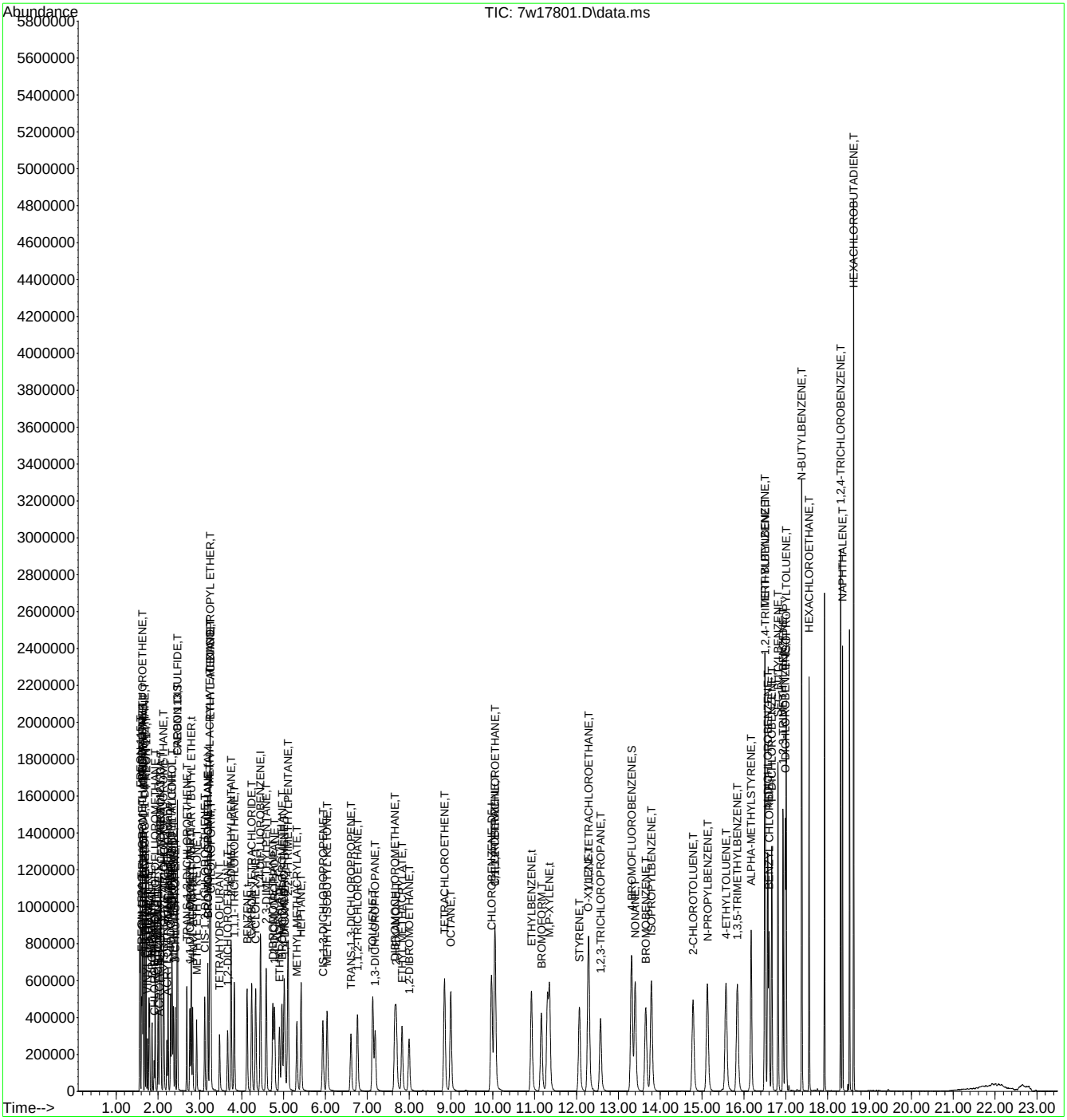
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

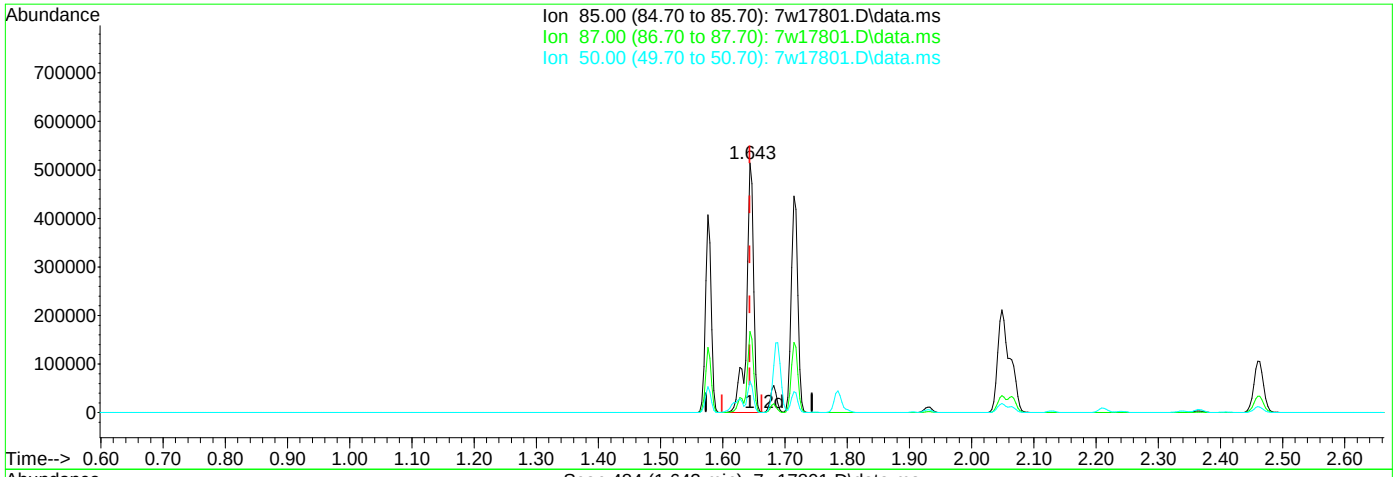
Sample Number: V7W624-CC577 **Method:** TO-15
Lab FileID: 7W17801.D **Analyst approved:** 10/13/25 17:49 Michaella Balido
Injection Time: 10/13/25 11:18 **Supervisor approved:** 10/14/25 16:42 Benjamin Kim

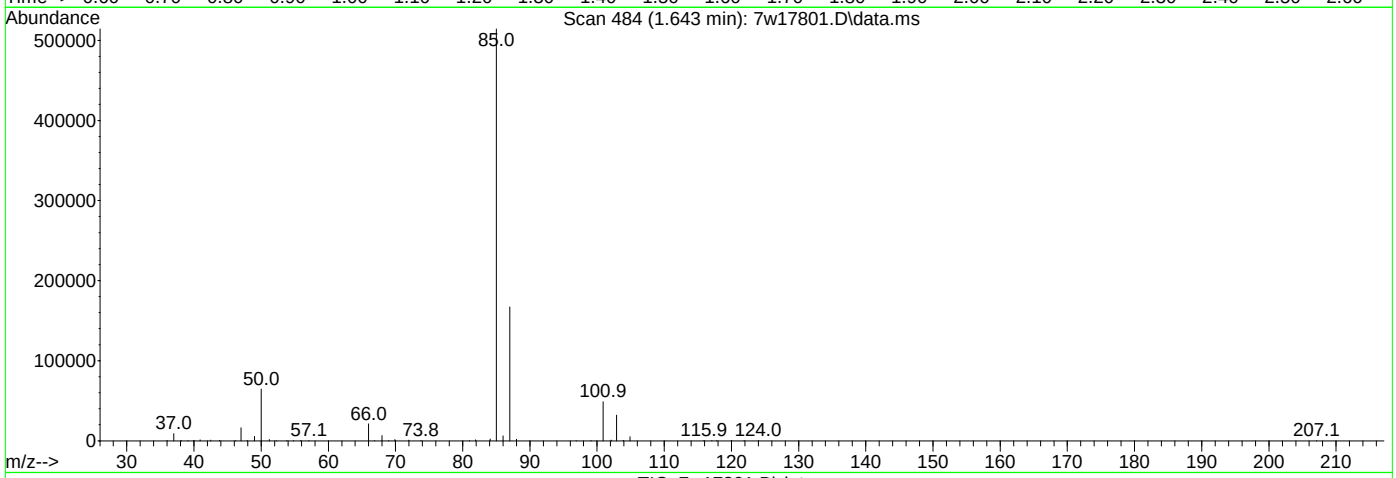
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 12.63PPBV

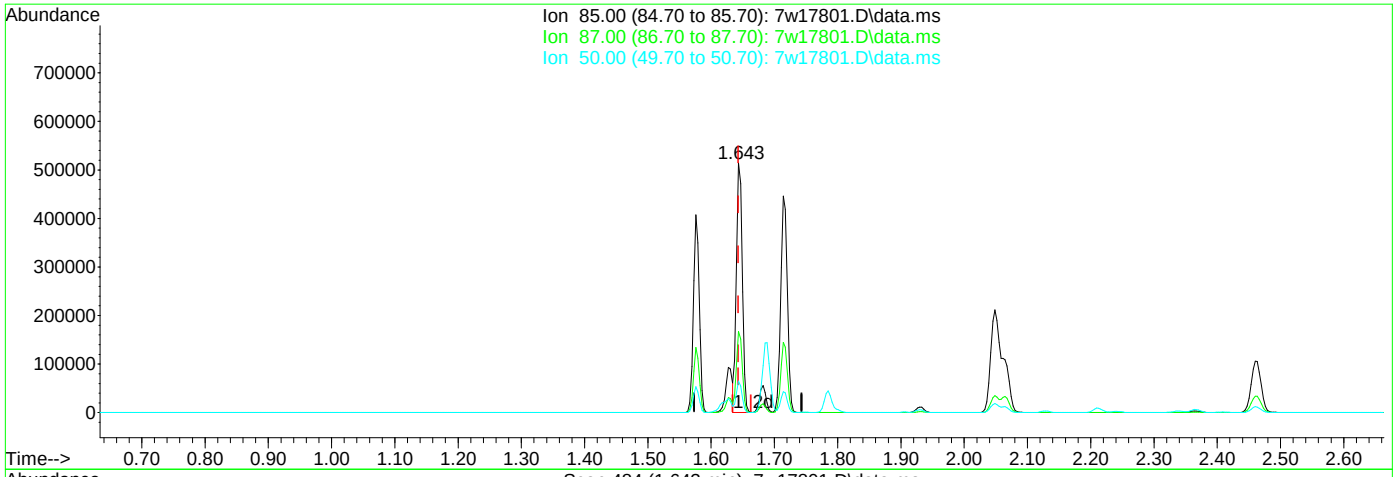
response 405326

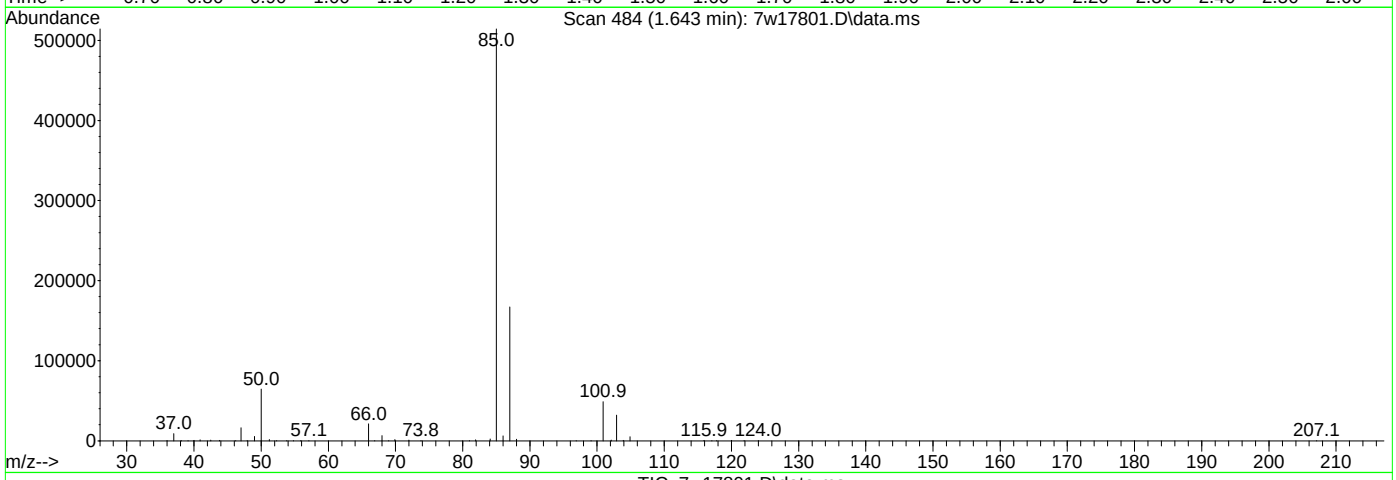
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.32
50.00	19.30	18.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 10.53PPBV m

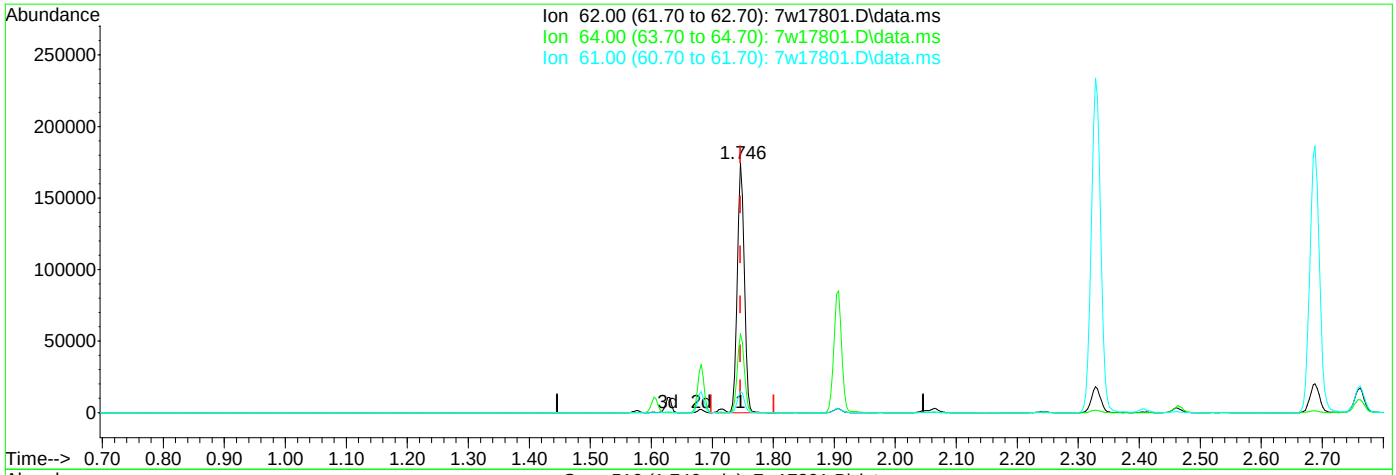
response 337777

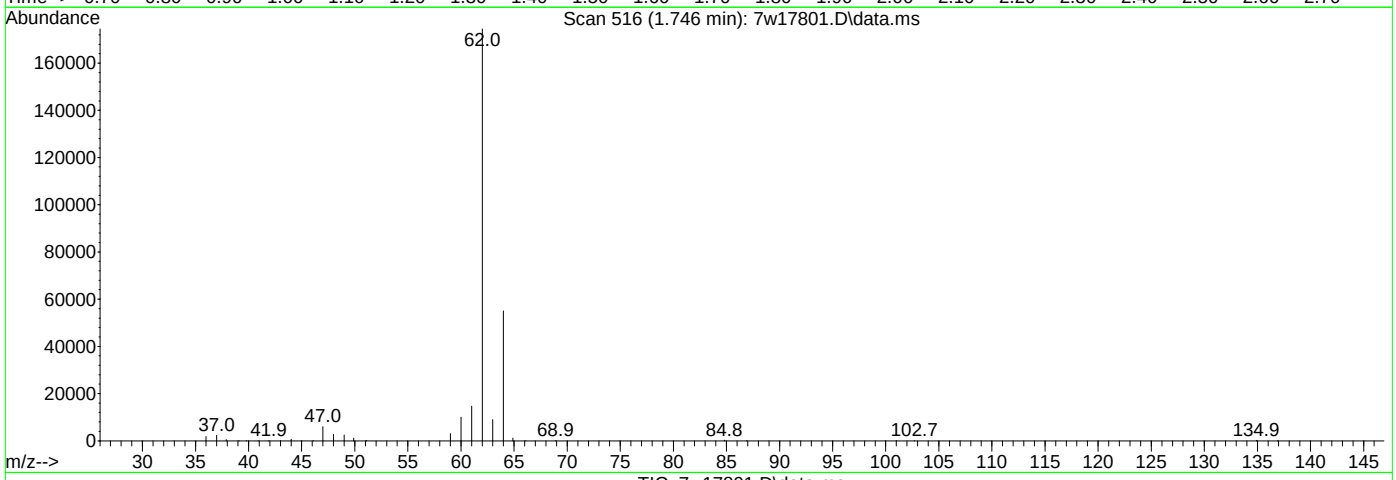
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.66PPBV

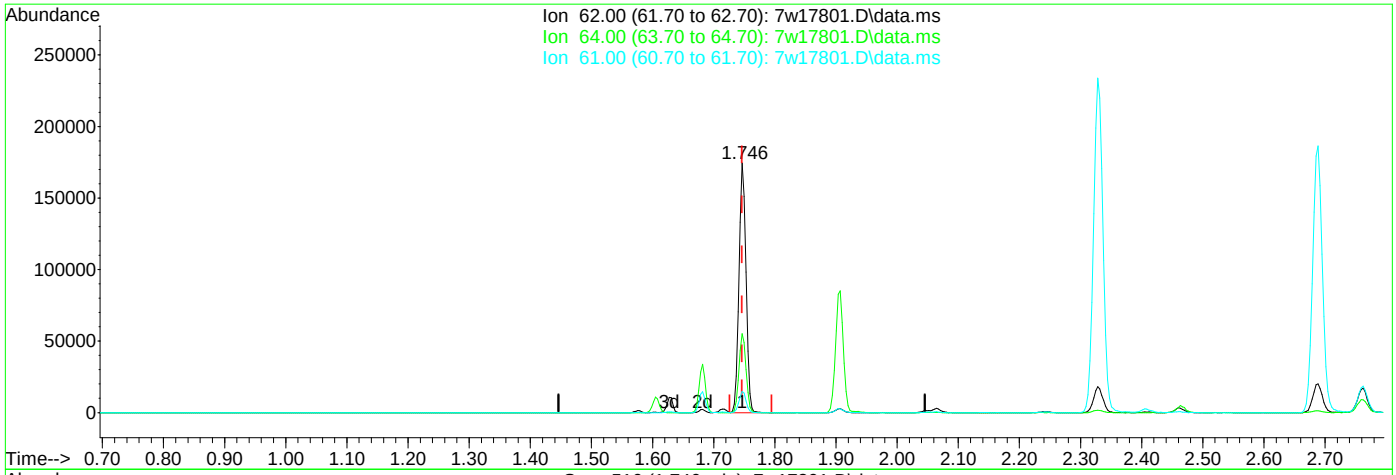
response 141102

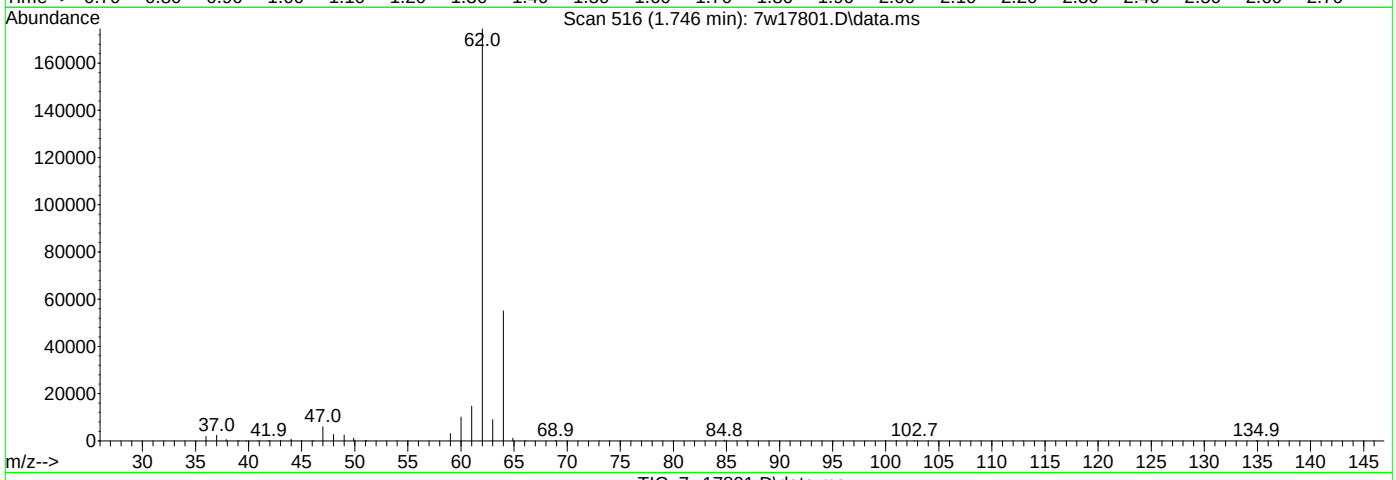
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.50
61.00	8.10	8.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.54PPBV m

response 139139

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.95
61.00	8.10	8.53
0.00	0.00	0.00

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1796	AS10783	12/5/2025	0.40
TO-15 STD	A2035	AS10781	12/4/2025	4.0
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS	A1810	AS10784	12/6/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2292
Date: 11/6/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251106ical.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Benjamin Kim
Data Validator(s):
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	000	5w59763			A2039	0					-	
1-1	000	5w59764			A2039	0					-	
1-1	000	5w59765			A2039	0					-	
1-1	istd only	5w59766			A2039	0					-	
1-1	ib	5w59767			A2039	400					-	
1-2	bfb	5w59768			A1796	5					OK	T = 21:59
1-2	ic2292-0.04	5w59769			A1796	40			√	√	OK	
1-2	ic2292-0.1	5w59770			A1796	100			√	√	OK	
1-2	ic2292-0.2	5w59771			A1796	200			√	√	OK	
1-2	ic2292-0.5	5w59772			A1796	500					NOT USED	Method Development
1-1	ib	5w59773			A2039	200					-	
1-1	ib	5w59774			A2039	400					-	
1-3	ic2292-0.1	5w59775			A2035	10					NOT USED	Method Development
1-3	ic2292-0.2	5w59776			A2035	20					NOT USED	Method Development
1-3	ic2292-0.5	5w59777			A2035	50			√	√	OK	
1-3	ic2292-5	5w59778			A2035	500					NOT USED	Method Development
1-1	ib	5w59779			A2039	200					-	
1-1	ib	5w59780			A2039	400					-	
1-4	ic2292-0.5	5w59781			A1788	5					NOT USED	Method Development
1-4	ic2292-5	5w59782			A1788	50			√	√	OK	
1-4	icc2292-10	5w59783			A1788	100			√	√	OK	
1-4	ic2292-20	5w59784			A1788	200			√	√	OK	
1-4	ic2292-40	5w59785			A1788	400			√	√	OK	
1-4	ic2292-50	5w59786			A1788	500			√	√	OK	
1-4	ic2292-60	5w59787			A1788	500			√	√	OK	
1-1	ib	5w59788			A2039	400					-	
1-1	ib	5w59789			A2039	400					-	
1-5	icv2292-10	5w59790			A1810	100			√	√	OK	
1-1	ib	5w59791			A2039	200					-	
1-1	ib	5w59792			A2039	400					-	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2301
Date: 11/24/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Claire Basilio
Data Validator(s): Geralyn Gomez
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	bfb	5w60000			A1788	100					OK	T = 10:05
SS-4	cc2292-10	5w60001			A1788	100			√	√	OK	
SS-4	bs	5w60002			A1788	100			√	√	OK	
SS-4	bsd	5w60003			A1788	100			√	√	OK	
1-1	ib	5w60004			A2039	400					-	
1-1	mb	5w60005			A2039	400		+	√	√	OK	
1-2	je23789-1	5w60006	MS99437	NYSVLL, NAP	A1625	40	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3	5w60007	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3dup	5w60008	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK	
1-4	je23790-1	5w60009	MS99437	NYSVLL, NAP	A259	400	1		√	√	OK	
1-5	je23790-3	5w60010	MS99437	NYSVLL, NAP	A1703	400	1		√	√	OK	
1-6	je23791-1	5w60011	MS99437	NYSVLL, NAP	A1167	400	1		√	√	OK/DL	↑ TCFM, RR = 4x
1-7	je23791-2	5w60012	MS99437	NYLL, NAP	A1657	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-8	je23791-3	5w60013	MS99437	NYSVLL, NAP	A655	400	1		√	√	OK	
1-9	je23791-4	5w60014	MS99437	NYLL, NAP	A215	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-10	je23793-1	5w60015	MS99437	NYSVLL, NAP	A1627	400	1		√	√	OK/DL	↑ Acetone, RR = 4x
1-11	je23793-2	5w60016	MS99437	NYLL, NAP	A1687	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-12	je23793-3	5w60017	MS99437	NYSVLL, NAP	A1764	400	1		√	√	OK	
1-13	je23793-4	5w60018	MS99437	NYLL, NAP	A1472	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-14	je23793-5	5w60019	MS99437	NYSVLL, NAP	M163	400	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-15	je23793-6	5w60020	MS99437	NYLL, NAP	A2086	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-16	je23794-1	5w60021	MS99437	NYLL, NAP	A1654	500	1		√	√	OK	
1-4	je23794-2	5w60022	MS99437	NYLL, NAP	A247	500	1		√	√	OK	
1-5	je23940-1	5w60023	MS99497	NYLL	A2164	500	1		√	√	OK	
1-8	je23940-2	5w60024	MS99497	NYLL	A2097	500	1		√	√	OK	
1-12	je23836-1	5w60025	MS99497	STD+, NAP	A1333	400	1	+	√	√	RR	No Can Attached.
1-1	je23836-2	5w60026	MS99497	STD+, NAP	M262	400	1	+	√	√	OK	
1-2	je23789-1	5w60027	MS99437	NYSVLL, NAP	A1625	400	1		√	√	OK	
1-3	je23789-3	5w60028	MS99437	NYSVLL, NAP	A1590	400	1		√	√	OK	
1-6	je23791-1	5w60029	MS99437	NYSVLL, NAP	A1167	100	1		√	√	OK	
1-7	je23791-2	5w60030	MS99437	NYLL, NAP	A1657	50	1		√	√	OK/DL	↑ Acetone, RR = 20x
1-9	je23791-4	5w60031	MS99437	NYLL, NAP	A215	50	1				NOT USED	Past BFB Tune
1-10	je23793-1	5w60032	MS99437	NYSVLL, NAP	A1627	100	1				NOT USED	
1-11	je23793-2	5w60033	MS99437	NYLL, NAP	A1687	50	1				NOT USED	
1-13	je23793-4	5w60034	MS99437	NYLL, NAP	A1472	50	1				NOT USED	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

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MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: **V5W2301**
Date: **11/24/2025**
Laboratory Analyst: **Benjamin Kim**
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): **Claire Basilio**
Data Validator(s): **Geralyn Gomez**
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-5	prime-40std	7w16562			A967	20						
2-4	prime-4std	7w16563			A1806	20						
2-3	prime-0.4std	7w16564			A2035	20						
2-2	prime-40lcs	7w16565			A1796	20						
2-1	0	7w16566			A2039	0						
2-1	0	7w16567			A2039	0						
2-1	0	7w16568			A2039	0						
2-1	istd only	7w16569			A2039	0						
2-1	istd only	7w16570			A2039	0						
2-1	istd only	7w16571			A2039	0						
2-1	ib	7w16572			A2039	400						
2-1	bfb	7w16573			A2039	400					OK	T = 2:05 (8/7/25)
2-1	ib	7w16574			A2039	400						
2-1	ib	7w16575			A1796	1						
2-2	ic577-0.04	7w16576			A1796	40			√	√	OK	
2-2	ic577-0.1	7w16577			A1796	100			√	√	OK	
2-2	ic577-0.2	7w16578			A1796	200					NOT USED	Method development
2-2	ic577-0.5	7w16579			A1796	500					NOT USED	Method development
2-1	ib	7w16580			A2039	400					NOT USED	Method development
2-3	ib	7w16581			A2035	1						
2-3	ic577-0.1	7w16582			A2035	10					NOT USED	Method development
2-3	ic577-0.2	7w16583			A2035	20			√	√	OK	
2-3	ic577-0.5	7w16584			A2035	50			√	√	OK	
2-3	ic577-5.0	7w16585			A2035	500					NOT USED	Method development
2-1	ib	7w16586			A2039	400						
2-4	ib	7w16587			A1806	1						
2-4	ic577-0.5	7w16588			A1806	5					NOT USED	Method development
2-4	ic577-5.0	7w16589			A1806	50			√	√	OK	
2-4	icc577-10	7w16590			A1806	100			√	√	OK	
2-4	ic577-20	7w16591			A1806	200			√	√	OK	
2-4	ic577-40	7w16592			A1806	400			√	√	OK	
2-4	ic577-50	7w16593			A1806	500			√	√	OK	
2-4	ic577-60	7w16594			A1806	600			√	√	OK	
2-1	ib	7w16595			A2039	400						
2-1	ib	7w16596			A2039	400						
2-5	icv577-10	7w16597			A967	100			√	√	OK	
2-1	ib	7w16598			A2039	100						
2-1	ib	7w16599			A2039	100						
SS4	ib	7w16600			A1798	100						
2-1	ib	7w16601			A2039	100						

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
	Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]											
Example:	Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.											
Notes:												

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	a1788	AS10741	10/8/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W613
Date: 9/26/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250926.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Kristel Valladolid
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w17472			A1827	20					OK	t=10:25
SS4	cc577-10	7w17473			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bs	7w17474			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bsd	7w17475			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
2-1	ib	7w17476			A1827	100					-	
2-1	mb	7w17477			A1827	400		+	√	√	OK	
2-2	je19194-2	7w17478	ms97046	CHLFRM	A328	620	1.55		√	√	OK	
2-3	je19194-3	7w17479	ms97046	CHLFRM	A188	680	1.7		√	√	OK	
2-4	je19193-1	7w17480	ms97046	CHLFRM	A452	608	1.52		√	√	OK	
2-5	je19193-2	7w17481	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-5	je19193-2dup	7w17482	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-11	scc,cp13198	7w17483			A053	400			√	√	OK	
2-12	scc,cp13198	7w17484			A1765	400			√	√	OK	
2-13	scc,cp13198	7w17485			A1644	400			√	√	OK	
2-14	scc,cp13199	7w17486			A1594	400			√	√	OK	
2-15	scc,cp13199	7w17487			A2121	400			√	√	OK	
2-16	scc,cp13199	7w17488			A737	400			√	√	OK	
A1	scc,cp13200	7w17489			A1412	100			√	√	OK	
A2	scc,cp13200	7w17490			A1428	100			√	√	OK	
A3	scc,cp13200	7w17491			A1439	100			√	√	OK	
A4	scc,cp13200	7w17492			A1881	100			√	√	OK	
A5	scc,cp13196	7w17493			A2380	100			√	√	OK	
A6	scc,cp13196	7w17494			A1574	100			√	√	OK	
A7	scc,cp13196	7w17495			A2211	100			√	√	OK	
A8	scc,cp13196	7w17496			A2321	100			√	√	OK	4:48

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

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MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A977	AS10746	10/22/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W624
Date: 10/13/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251013.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Michaella Balido
Data Validator(s): Braian Casallas
Data Validator(s): Natalia Liberato

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-4	bfb	7w17800			Open position	400			v	v	OK	t = 10:41
SS4	cc577-10	7w17801			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bs	7w17802			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bsd	7w17803			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
2-1	ib	7w17804			A1827	100					-	
2-1	mb	7w17805			A1827	400		+	v	v	OK	
C1	je20658-5	7w17806	MS97882	NYSVLL	A1762	10	1.35		v	v	RR	Combine with previous data from batch v7w623
2-2	je20702-1	7w17807	MS97930	STD	A902	400	1		v	v	OK	
2-2	je20702-1dup	7w17808	MS97930	STD	A902	400	1		v	v	OK	
2-3	je20654-1	7w17809	MS97882	NYLL	M311	760	1.52		v	v	OK	
2-4	je20654-2	7w17810	MS97882	NYLL	A1168	790	1.58		v	v	OK	
2-5	je20654-3	7w17811	MS97882	NYLL	A1708	500	1		v	v	OK	
2-6	je20654-5	7w17812	MS97882	NYLL	A743	500	1		v	v	OK	
2-7	je20654-6	7w17813	MS97882	NYLL	A2109	800	1.6		v	v	OK	
2-8	je20654-8	7w17814	MS97882	NYLL	M272	800	1.65		v	v	OK	
2-9	je20654-9	7w17815	MS97882	NYLL	A1081	800	1.6		v	v	OK	
2-10	je20654-13	7w17816	MS97882	NYLL	A1357	800	1.7		v	v	OK	
2-11	je20700-1	7w17817	MS98033	STD	M127	400	1		v	v	OK	
C2	je20654-4	7w17818	MS97882	NYSVLL	M237	632	1.58		v	v	OK	
C3	je20654-10	7w17819	MS97882	NYSVLL	A1323	400	1		v	v	OK	
C4	je20654-11	7w17820	MS97882	NYSVLL	M053	660	1.65		v	v	OK	
C5	je20654-12	7w17821	MS97882	NYSVLL	A1194	640	1.6		v	v	OK	
C6	je20654-7	7w17822	MS97882	NYSVLL	A1055	40	1		v	v	OK	
A1	je20697-1	7w17823	MS98033	SL	A1963	100	1		v	v	OK	
A2	je20697-2	7w17824	MS98033	SL	A1569	100	1		v	v	OK	
A3	je20646-1	7w17825	MS97882	SL	A2442	40	1		v	v	/DL	Acetone ↑; RR = 10cc
A4	je20646-2	7w17826	MS97882	SL	A1925	10	1		v	v	OK	t = 6:55 am
2-13	scc,cp13206	7w17827			A1088	400			v	v	OK	
2-14	scc,cp13206	7w17828			A457	400			v	v	OK	
2-15	scc,cp13206	7w17829			A638	400			v	v	OK	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

The results set forth herein are provided by SGS North America Inc.

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Technical Report for

Groundwater & Environmental Services

Regency Center Carmel ShopRite Plaza, Carmel, NY

1192343-02-210

SGS Job Number: JE23791

Sampling Date: 11/18/25



Report to:

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Total number of pages in report: **1824**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

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Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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SGS North America Inc.

Sample Summary

Groundwater & Environmental Services

Job No: JE23791

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JE23791-1	11/18/25	18:11	LM	11/20/25	AIR	Soil Vapor Comp.	SS-1
JE23791-2	11/18/25	18:13	LM	11/20/25	AIR	Indoor Air Comp.	IA-1
JE23791-3	11/18/25	18:15	LM	11/20/25	AIR	Soil Vapor Comp.	SS-2
JE23791-4	11/18/25	18:17	LM	11/20/25	AIR	Indoor Air Comp.	IA-2

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Groundwater & Environmental Services	**Job No:**	JE23791
Site:	Regency Center Carmel ShopRite Plaza, Carmel, NY	**Report Date**	12/9/2025 5:54:19 PM

On 11/20/2025, 4 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. An SGS Job Number of JE23791 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V5W2301

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23789-3DUP were used as the QC samples indicated.
- Sample(s) JE23791-1, JE23791-3 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.
- The duplicate RPD(s) for Vinyl Acetate, Benzene, Chloroform, Chloromethane, Cyclohexane, Ethylbenzene, Hexane, m,p-Xylene, m-Dichlorobenzene, Methylene chloride, o-Xylene, Tetrahydrofuran, Xylenes (total) are outside control limits for sample JE23789-3DUP. RPD acceptable due to low DUP and sample concentrations.

Matrix: AIR **Batch ID:** V5W2302

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23836-1DUP were used as the QC samples indicated.
- Sample(s) JE23791-4 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE23791
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE23791-1	**SS-1**					
Acetone (2-Propanone)		52.4	0.20		ppbv	TO-15
Benzene		0.37	0.20		ppbv	TO-15
Chloroform		0.21	0.20		ppbv	TO-15
Dichlorodifluoromethane		1.1	0.20		ppbv	TO-15
m-Dichlorobenzene		0.40	0.10		ppbv	TO-15
Ethanol		318 E	2.0		ppbv	TO-15
Ethylbenzene		0.21	0.20		ppbv	TO-15
Ethyl Acetate		13.4	0.20		ppbv	TO-15
Heptane		1.2	0.20		ppbv	TO-15
Hexane		0.39	0.20		ppbv	TO-15
2-Hexanone		0.29	0.20		ppbv	TO-15
Isopropyl Alcohol		16.1	0.20		ppbv	TO-15
Methylene chloride		0.27	0.20		ppbv	TO-15
Methyl ethyl ketone		2.1	0.20		ppbv	TO-15
Methyl Isobutyl Ketone		0.24	0.20		ppbv	TO-15
Methylmethacrylate		1.7	0.20		ppbv	TO-15
Tertiary Butyl Alcohol		2.5	0.20		ppbv	TO-15
Tetrachloroethylene		0.24	0.040		ppbv	TO-15
Tetrahydrofuran		0.20	0.20		ppbv	TO-15
Toluene		0.82	0.20		ppbv	TO-15
Trichlorofluoromethane		246	0.40		ppbv	TO-15
Vinyl Acetate		1.1	0.20		ppbv	TO-15
m,p-Xylene		0.63	0.20		ppbv	TO-15
o-Xylene		0.31	0.20		ppbv	TO-15
Xylenes (total)		0.94	0.20		ppbv	TO-15
Acetone (2-Propanone)		124	0.48		ug/m3	TO-15
Benzene		1.2	0.64		ug/m3	TO-15
Chloroform		1.0	0.98		ug/m3	TO-15
Dichlorodifluoromethane		5.4	0.99		ug/m3	TO-15
m-Dichlorobenzene		2.4	0.60		ug/m3	TO-15
Ethanol		599 E	3.8		ug/m3	TO-15
Ethylbenzene		0.91	0.87		ug/m3	TO-15
Ethyl Acetate		48.2	0.72		ug/m3	TO-15
Heptane		4.9	0.82		ug/m3	TO-15
Hexane		1.4	0.70		ug/m3	TO-15
2-Hexanone		1.2	0.82		ug/m3	TO-15
Isopropyl Alcohol		39.6	0.49		ug/m3	TO-15
Methylene chloride		0.94	0.69		ug/m3	TO-15
Methyl ethyl ketone		6.2	0.59		ug/m3	TO-15
Methyl Isobutyl Ketone		0.98	0.82		ug/m3	TO-15
Methylmethacrylate		7.0	0.82		ug/m3	TO-15
Tertiary Butyl Alcohol		7.6	0.61		ug/m3	TO-15
Tetrachloroethylene		1.6	0.27		ug/m3	TO-15

Summary of Hits

Job Number: JE23791
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tetrahydrofuran		0.59	0.59		ug/m3	TO-15
Toluene		3.1	0.75		ug/m3	TO-15
Trichlorofluoromethane		1380	2.2		ug/m3	TO-15
Vinyl Acetate		3.9	0.70		ug/m3	TO-15
m,p-Xylene		2.7	0.87		ug/m3	TO-15
o-Xylene		1.3	0.87		ug/m3	TO-15
Xylenes (total)		4.0	0.87		ug/m3	TO-15
JE23791-2	**IA-1**					
Acetone (2-Propanone)		705	3.2		ppbv	TO-15
Benzene		0.66	0.16		ppbv	TO-15
Chloroform		0.46	0.16		ppbv	TO-15
Chloromethane		0.65	0.16		ppbv	TO-15
Carbon tetrachloride		0.079	0.032		ppbv	TO-15
Dichlorodifluoromethane		0.51	0.16		ppbv	TO-15
Ethanol		790	8.0		ppbv	TO-15
Ethyl Acetate		22.7	0.16		ppbv	TO-15
Heptane		2.4	0.16		ppbv	TO-15
Hexane		0.40	0.16		ppbv	TO-15
Isopropyl Alcohol		22.8	0.16		ppbv	TO-15
Methylene chloride		0.44	0.16		ppbv	TO-15
Methyl ethyl ketone		0.65	0.16		ppbv	TO-15
Methylmethacrylate		4.3	0.16		ppbv	TO-15
Tertiary Butyl Alcohol		0.43	0.16		ppbv	TO-15
Toluene		0.64	0.16		ppbv	TO-15
Trichlorofluoromethane		0.72	0.080		ppbv	TO-15
Vinyl Acetate		0.47	0.16		ppbv	TO-15
m,p-Xylene		0.16	0.16		ppbv	TO-15
Xylenes (total)		0.24	0.16		ppbv	TO-15
Acetone (2-Propanone)		1670	7.6		ug/m3	TO-15
Benzene		2.1	0.51		ug/m3	TO-15
Chloroform		2.2	0.78		ug/m3	TO-15
Chloromethane		1.3	0.33		ug/m3	TO-15
Carbon tetrachloride		0.50	0.20		ug/m3	TO-15
Dichlorodifluoromethane		2.5	0.79		ug/m3	TO-15
Ethanol		1490	15		ug/m3	TO-15
Ethyl Acetate		81.7	0.58		ug/m3	TO-15
Heptane		9.8	0.66		ug/m3	TO-15
Hexane		1.4	0.56		ug/m3	TO-15
Isopropyl Alcohol		56.0	0.39		ug/m3	TO-15
Methylene chloride		1.5	0.56		ug/m3	TO-15
Methyl ethyl ketone		1.9	0.47		ug/m3	TO-15
Methylmethacrylate		18	0.66		ug/m3	TO-15
Tertiary Butyl Alcohol		1.3	0.49		ug/m3	TO-15

Summary of Hits

Job Number: JE23791
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		2.4	0.60		ug/m3	TO-15
Trichlorofluoromethane		4.0	0.45		ug/m3	TO-15
Vinyl Acetate		1.7	0.56		ug/m3	TO-15
m,p-Xylene		0.69	0.69		ug/m3	TO-15
Xylenes (total)		1.0	0.69		ug/m3	TO-15
JE23791-3	**SS-2**					
Acetone (2-Propanone)		28.1	0.20		ppbv	TO-15
Benzene		0.56	0.20		ppbv	TO-15
Chloroform		0.35	0.20		ppbv	TO-15
Dichlorodifluoromethane		3.5	0.20		ppbv	TO-15
m-Dichlorobenzene		0.34	0.10		ppbv	TO-15
Ethanol		178 E	0.50		ppbv	TO-15
Ethyl Acetate		11.8	0.20		ppbv	TO-15
Heptane		0.66	0.20		ppbv	TO-15
Hexane		0.29	0.20		ppbv	TO-15
Isopropyl Alcohol		11.2	0.20		ppbv	TO-15
Methylene chloride		0.45	0.20		ppbv	TO-15
Methyl ethyl ketone		1.5	0.20		ppbv	TO-15
Methylmethacrylate		0.70	0.20		ppbv	TO-15
Tertiary Butyl Alcohol		2.6	0.20		ppbv	TO-15
Tetrachloroethylene		0.70	0.040		ppbv	TO-15
Toluene		0.75	0.20		ppbv	TO-15
Trichlorofluoromethane		47.1	0.10		ppbv	TO-15
Vinyl Acetate		0.90	0.20		ppbv	TO-15
m,p-Xylene		0.58	0.20		ppbv	TO-15
o-Xylene		0.26	0.20		ppbv	TO-15
Xylenes (total)		0.84	0.20		ppbv	TO-15
Acetone (2-Propanone)		66.8	0.48		ug/m3	TO-15
Benzene		1.8	0.64		ug/m3	TO-15
Chloroform		1.7	0.98		ug/m3	TO-15
Dichlorodifluoromethane		17	0.99		ug/m3	TO-15
m-Dichlorobenzene		2.0	0.60		ug/m3	TO-15
Ethanol		335 E	0.94		ug/m3	TO-15
Ethyl Acetate		42.5	0.72		ug/m3	TO-15
Heptane		2.7	0.82		ug/m3	TO-15
Hexane		1.0	0.70		ug/m3	TO-15
Isopropyl Alcohol		27.5	0.49		ug/m3	TO-15
Methylene chloride		1.6	0.69		ug/m3	TO-15
Methyl ethyl ketone		4.4	0.59		ug/m3	TO-15
Methylmethacrylate		2.9	0.82		ug/m3	TO-15
Tertiary Butyl Alcohol		7.9	0.61		ug/m3	TO-15
Tetrachloroethylene		4.7	0.27		ug/m3	TO-15
Toluene		2.8	0.75		ug/m3	TO-15

Summary of Hits

Job Number: JE23791
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Trichlorofluoromethane	265	0.56		ug/m3	TO-15
Vinyl Acetate	3.2	0.70		ug/m3	TO-15
m,p-Xylene	2.5	0.87		ug/m3	TO-15
o-Xylene	1.1	0.87		ug/m3	TO-15
Xylenes (total)	3.6	0.87		ug/m3	TO-15
JE23791-4 IA-2					
Acetone (2-Propanone)	462	1.6		ppbv	TO-15
1,3-Butadiene	0.23	0.16		ppbv	TO-15
Benzene	1.7	0.16		ppbv	TO-15
Bromodichloromethane	0.13	0.080		ppbv	TO-15
Chloroform	1.0	0.16		ppbv	TO-15
Chloromethane	0.73	0.16		ppbv	TO-15
Carbon tetrachloride	0.081	0.032		ppbv	TO-15
Dichlorodifluoromethane	0.46	0.16		ppbv	TO-15
Ethanol	1420 E	4.0		ppbv	TO-15
Ethyl Acetate	11.4	0.16		ppbv	TO-15
Heptane	1.7	0.16		ppbv	TO-15
Hexane	0.30	0.16		ppbv	TO-15
Isopropyl Alcohol	16.9	0.16		ppbv	TO-15
Methylene chloride	0.37	0.16		ppbv	TO-15
Methyl ethyl ketone	0.43	0.16		ppbv	TO-15
Methylmethacrylate	3.0	0.16		ppbv	TO-15
Toluene	0.40	0.16		ppbv	TO-15
Trichlorofluoromethane	0.90	0.080		ppbv	TO-15
Vinyl Acetate	0.43	0.16		ppbv	TO-15
Acetone (2-Propanone)	1100	3.8		ug/m3	TO-15
1,3-Butadiene	0.51	0.35		ug/m3	TO-15
Benzene	5.4	0.51		ug/m3	TO-15
Bromodichloromethane	0.87	0.54		ug/m3	TO-15
Chloroform	4.9	0.78		ug/m3	TO-15
Chloromethane	1.5	0.33		ug/m3	TO-15
Carbon tetrachloride	0.51	0.20		ug/m3	TO-15
Dichlorodifluoromethane	2.3	0.79		ug/m3	TO-15
Ethanol	2680 E	7.5		ug/m3	TO-15
Ethyl Acetate	41.0	0.58		ug/m3	TO-15
Heptane	7.0	0.66		ug/m3	TO-15
Hexane	1.1	0.56		ug/m3	TO-15
Isopropyl Alcohol	41.5	0.39		ug/m3	TO-15
Methylene chloride	1.3	0.56		ug/m3	TO-15
Methyl ethyl ketone	1.3	0.47		ug/m3	TO-15
Methylmethacrylate	12	0.66		ug/m3	TO-15
Toluene	1.5	0.60		ug/m3	TO-15
Trichlorofluoromethane	5.1	0.45		ug/m3	TO-15

Summary of Hits

Job Number: JE23791
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vinyl Acetate		1.5	0.56		ug/m3	TO-15

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID: SS-1
Lab Sample ID: JE23791-1
Matrix: AIR - Soil Vapor Comp. Summa ID: A1167
Method: TO-15
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Date Sampled: 11/18/25
Date Received: 11/20/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60011.D	1	11/24/25 18:41	BK	n/a	n/a	V5W2301
Run #2	5W60029.D	1	11/25/25 07:57	BK	n/a	n/a	V5W2301

	Initial Volume
Run #1	400 ml
Run #2	100 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	52.4	0.20	ppbv		124	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.37	0.20	ppbv		1.2	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.21	0.20	ppbv		1.0	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.1	0.20	ppbv		5.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40	0.10	ppbv		2.4	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-1		
Lab Sample ID:	JE23791-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1167	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	318 [a]	2.0	ppbv	E	599 [a]	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.21	0.20	ppbv		0.91	0.87	ug/m3
141-78-6	88	Ethyl Acetate	13.4	0.20	ppbv		48.2	0.72	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	1.2	0.20	ppbv		4.9	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.39	0.20	ppbv		1.4	0.70	ug/m3
591-78-6	100	2-Hexanone	0.29	0.20	ppbv		1.2	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	16.1	0.20	ppbv		39.6	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.27	0.20	ppbv		0.94	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.1	0.20	ppbv		6.2	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.24	0.20	ppbv		0.98	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	1.7	0.20	ppbv		7.0	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.5	0.20	ppbv		7.6	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.24	0.040	ppbv		1.6	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.20	0.20	ppbv		0.59	0.59	ug/m3
108-88-3	92.14	Toluene	0.82	0.20	ppbv		3.1	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	246 [a]	0.40	ppbv		1380 [a]	2.2	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	1.1	0.20	ppbv		3.9	0.70	ug/m3
	106.2	m,p-Xylene	0.63	0.20	ppbv		2.7	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.31	0.20	ppbv		1.3	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.94	0.20	ppbv		4.0	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-1		
Lab Sample ID:	JE23791-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1167	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%	113%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	IA-1		
Lab Sample ID:	JE23791-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1657	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60012.D	1	11/24/25 19:25	BK	n/a	n/a	V5W2301
Run #2	5W60039.D	1	11/25/25 15:53	BK	n/a	n/a	V5W2302
Run #3	5W60030.D	1	11/25/25 08:34	BK	n/a	n/a	V5W2301

	Initial Volume
Run #1	500 ml
Run #2	25.0 ml
Run #3	50.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	705 [a]	3.2	ppbv		1670 [a]	7.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	0.66	0.16	ppbv		2.1	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	0.46	0.16	ppbv		2.2	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.65	0.16	ppbv		1.3	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.079	0.032	ppbv		0.50	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.16	ppbv		2.5	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: IA-1
Lab Sample ID: JE23791-2
Matrix: AIR - Indoor Air Comp. Summa ID: A1657
Method: TO-15
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Date Sampled: 11/18/25
Date Received: 11/20/25
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
64-17-5	46.07	Ethanol	790 [a]	8.0	ppbv		1490 [a]	15	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	22.7	0.16	ppbv		81.7	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	2.4	0.16	ppbv		9.8	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.40	0.16	ppbv		1.4	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	22.8	0.16	ppbv		56.0	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.44	0.16	ppbv		1.5	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.65	0.16	ppbv		1.9	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	4.3	0.16	ppbv		18	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	ND	0.40	ppbv		ND	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.43	0.16	ppbv		1.3	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.032	ppbv		ND	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	0.64	0.16	ppbv		2.4	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.72	0.080	ppbv		4.0	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	0.47	0.16	ppbv		1.7	0.56	ug/m3
	106.2	m,p-Xylene	0.16	0.16	ppbv		0.69	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	0.24	0.16	ppbv		1.0	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-1		
Lab Sample ID:	JE23791-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1657	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	109%	109%	111%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SS-2		
Lab Sample ID:	JE23791-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A655	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60013.D	1	11/24/25 20:08	BK	n/a	n/a	V5W2301
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	28.1	0.20	ppbv		66.8	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.56	0.20	ppbv		1.8	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.35	0.20	ppbv		1.7	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	3.5	0.20	ppbv		17	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.34	0.10	ppbv		2.0	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS-2
Lab Sample ID: JE23791-3 **Date Sampled:** 11/18/25
Matrix: AIR - Soil Vapor Comp. Summa ID: A655 **Date Received:** 11/20/25
Method: TO-15 **Percent Solids:** n/a
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	178	0.50	ppbv	E	335	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	11.8	0.20	ppbv		42.5	0.72	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	0.66	0.20	ppbv		2.7	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.29	0.20	ppbv		1.0	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	11.2	0.20	ppbv		27.5	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.45	0.20	ppbv		1.6	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.5	0.20	ppbv		4.4	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	0.70	0.20	ppbv		2.9	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.6	0.20	ppbv		7.9	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.70	0.040	ppbv		4.7	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.75	0.20	ppbv		2.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	47.1	0.10	ppbv		265	0.56	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	0.90	0.20	ppbv		3.2	0.70	ug/m3
	106.2	m,p-Xylene	0.58	0.20	ppbv		2.5	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.26	0.20	ppbv		1.1	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.84	0.20	ppbv		3.6	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-2		
Lab Sample ID:	JE23791-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A655	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%		65-128%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	IA-2		
Lab Sample ID:	JE23791-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A215	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60014.D	1	11/24/25 20:52	BK	n/a	n/a	V5W2301
Run #2	5W60042.D	1	11/25/25 17:54	BK	n/a	n/a	V5W2302

	Initial Volume
Run #1	500 ml
Run #2	50.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	462 [a]	1.6	ppbv		1100 [a]	3.8	ug/m3
106-99-0	54.09	1,3-Butadiene	0.23	0.16	ppbv		0.51	0.35	ug/m3
71-43-2	78.11	Benzene	1.7	0.16	ppbv		5.4	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	0.13	0.080	ppbv		0.87	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	1.0	0.16	ppbv		4.9	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.73	0.16	ppbv		1.5	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.081	0.032	ppbv		0.51	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.16	ppbv		2.3	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: IA-2
Lab Sample ID: JE23791-4
Matrix: AIR - Indoor Air Comp. Summa ID: A215
Method: TO-15
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Date Sampled: 11/18/25
Date Received: 11/20/25
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1420 [a]	4.0	ppbv	E	2680 [a]	7.5	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	11.4	0.16	ppbv		41.0	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	1.7	0.16	ppbv		7.0	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.30	0.16	ppbv		1.1	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	16.9	0.16	ppbv		41.5	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.37	0.16	ppbv		1.3	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.43	0.16	ppbv		1.3	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	3.0	0.16	ppbv		12	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	ND	0.40	ppbv		ND	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.16	ppbv		ND	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.032	ppbv		ND	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	0.40	0.16	ppbv		1.5	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.90	0.080	ppbv		5.1	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	0.43	0.16	ppbv		1.5	0.56	ug/m3
	106.2	m,p-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.16	ppbv		ND	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-2		
Lab Sample ID:	JE23791-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A215	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	108%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle

Air

CHAIN OF CUSTODY - AIR

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #	Bottle Order Control # EN 11525 210
SGS Quote #	SGS Job # JE23791

Client / Reporting Information			Project Information		Weather Parameters	
Company Name: Groundwater & Environmental Services			Project Name: Regency Centers Carmel ShopRite Plaza, Carmel, NY		Temperature (Fahrenheit) Start: 40 Maximum: 40	
Address: 63 East Street, Suite 3			Street: 180 Gleneida Ave.		Stop: 34 Minimum: 34	
City: Pawling	State: NY	Zip: 12564	City: Carmel	State: NY	Atmoshpheric Pressure (inches of Hg) Start: 30.1 Maximum: 30.1	
Project Contact: Jessica Montaldo	E-mail: Jmontaldo@gesonline.com		Project #: 1192343-02-210		Stop: 30.1 Minimum: 30.1	
Phone #: 800-360-9405, ext 4328			Client Purchase Order # / Invoice to GES, please reference project #		Other weather comment:	
Sampler(s) Name(s): Liam Maher						

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis: VTO15NYSVLL and VMS+NAP	Requested Analysis: VTO15NYLL and VMS+NAP
1	SS-1	SV	NR	A1167	6L	FC1471	11/18/25	1015	30	71	LM	11/18/25	1811	5	75	LM	X	
2	IA-1	I	NR	A1657	6L	FC1358	11/18/25	1017	29	71	LM	11/18/25	1813	5	75	LM		X
3	SS-2	SV	NR	A655	6L	FC1261	11/18/25	1020	30	71	LM	11/18/25	1815	5	75	LM	X	
4	IA-2	I	NR	A215	6L	FC1081	11/18/25	1021	30	71	LM	11/18/25	1817	4	75	LM		X

Turnaround Time (Business days)

- 15 Business Days
- 10 Business Days
- 5 Business Days
- 3 Business Days *
- 2 Business Days *
- 1 Business Day *
- Other

Approved By: _____

Date: _____

* Approval needed for 1-3 Business Day TAT

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A	
Comm B	
Reduced T2	
Full T1	
Other:	NYCATB
DKQP reporting	

Comments / Remarks

Tenant Space: Europa Pizza

VTO15NYSVLL - soil vapor; VTO15NYLL - indoor/ambient
*NYCATB Report

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory: 1 Liam Maher	Date / Time: 11-19-25		Received By: 1 Fed-Ex	Relinquished By: 2 FX	Date / Time: 11.20.25 1000	Received By: 2
Relinquished by: 3	Date / Time:		Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:		Received By: 5	Custody Seal #		

2A XC

http://www.sgs.com/en/terms-and-conditions

JE23791: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE23791 **Client:** GROUNDWATER & ENVIRONMENTAL S **Project:** REGENCY CENTERS, GLENEIDA AVE, C

Date / Time Received: 11/20/2025 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Received: 11/20/25

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1167	6	30	11/11/25	JT	CP13198	7W17485.D	JE23791-1	11/21/25	TCH	5.5			1
A1657	6	30	11/11/25	JT	CP13198	7W17485.D	JE23791-2	11/21/25	TCH	6			1
A655	6	30	11/11/25	JT	CP13206	7W17829.D	JE23791-3	11/21/25	TCH	5.5			1
A215	6	30	11/11/25	JT	CP13206	7W17829.D	JE23791-4	11/21/25	TCH	1.5			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1081	11/11/25	JT	10.4	8	11/26/25	JT	11.5	10	Flow Controller
FC1261	11/11/25	JT	10.5	8	11/25/25	JT	10.9	3.7	Flow Controller
FC1358	11/11/25	JT	10.4	8	11/25/25	JT	10.5	1	Flow Controller
FC1471	11/11/25	JT	10.5	8	11/25/25	JT	10.6	0.9	Flow Controller

SGS Bottle Order(s):
EN-11525-210

Prep Date	Room Temp(F)	Bar Pres "Hg
11/11/25	70	29.92

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: JE23791

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE23791-1 SS-1	Collected: 18-NOV-25 18:11 By: LM		Received: 20-NOV-25 By: JR			
JE23791-1	TO-15	24-NOV-25 18:41	BK			VTO15NYSVLL
JE23791-1	TO-15	25-NOV-25 07:57	BK			VTO15NYSVLL
JE23791-2 IA-1	Collected: 18-NOV-25 18:13 By: LM		Received: 20-NOV-25 By: JR			
JE23791-2	TO-15	24-NOV-25 19:25	BK			VTO15NYLL
JE23791-2	TO-15	25-NOV-25 08:34	BK			VTO15NYLL
JE23791-2	TO-15	25-NOV-25 15:53	BK			VTO15NYLL
JE23791-3 SS-2	Collected: 18-NOV-25 18:15 By: LM		Received: 20-NOV-25 By: JR			
JE23791-3	TO-15	24-NOV-25 20:08	BK			VTO15NYSVLL
JE23791-4 IA-2	Collected: 18-NOV-25 18:17 By: LM		Received: 20-NOV-25 By: JR			
JE23791-4	TO-15	24-NOV-25 20:52	BK			VTO15NYLL
JE23791-4	TO-15	25-NOV-25 17:54	BK			VTO15NYLL

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2302-MB	5W60038.D	1	11/25/25	BK	n/a	n/a	V5W2302

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-2, JE23791-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	107%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.2	98	9.9	95	3	70-130/30
106-99-0	1,3-Butadiene	10.3	10.8	105	10.5	102	3	70-130/30
71-43-2	Benzene	10.4	11.0	106	10.8	104	2	70-130/30
75-27-4	Bromodichloromethane	9.9	11.1	112	11.1	112	0	70-130/30
75-25-2	Bromoform	10.6	13.5	127	13.2	125	2	70-130/30
74-83-9	Bromomethane	10.2	11.6	114	11.5	113	1	70-130/30
593-60-2	Bromoethene	10.1	11.9	118	11.7	116	2	70-130/30
100-44-7	Benzyl Chloride	10.5	13.2	126	13.2	126	0	70-130/30
75-15-0	Carbon disulfide	10.6	10.8	102	10.6	100	2	70-130/30
108-90-7	Chlorobenzene	10.9	12.0	110	11.9	109	1	70-130/30
75-00-3	Chloroethane	10	9.8	98	9.8	98	0	70-130/30
67-66-3	Chloroform	10.5	11.4	109	11.2	107	2	70-130/30
74-87-3	Chloromethane	10.6	9.7	92	9.6	91	1	70-130/30
107-05-1	3-Chloropropene	10.2	9.8	96	9.7	95	1	70-130/30
95-49-8	2-Chlorotoluene	10.4	11.4	110	11.3	109	1	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.4	112	11.4	112	0	70-130/30
110-82-7	Cyclohexane	10.4	10.9	105	10.7	103	2	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.7	95	9.6	94	1	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.6	99	10.2	95	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	12.8	116	12.3	112	4	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.9	107	10.7	105	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.1	88	9.1	88	0	70-130/30
123-91-1	1,4-Dioxane	9.9	10.9	110	11.0	111	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.8	111	11.2	106	5	70-130/30
124-48-1	Dibromochloromethane	10.4	12.3	118	11.8	113	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	10.2	100	10.1	99	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10	96	9.9	95	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	10.2	101	1	70-130/30
541-73-1	m-Dichlorobenzene	10.5	13.0	124	12.8	122	2	70-130/30
95-50-1	o-Dichlorobenzene	10.7	12.4	116	12.0	112	3	70-130/30
106-46-7	p-Dichlorobenzene	10.8	12.1	112	11.9	110	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.6	100	1	70-130/30
64-17-5	Ethanol	9.7	11.4	118	10.7	110	6	70-130/30
100-41-4	Ethylbenzene	11	12.1	110	11.8	107	3	70-130/30
141-78-6	Ethyl Acetate	10.5	12.5	119	12.1	115	3	70-130/30
622-96-8	4-Ethyltoluene	10.6	13.0	123	12.8	121	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	12.3	118	12.0	115	2	70-130/30
142-82-5	Heptane	10.4	9.4	90	9.4	90	0	70-130/30
87-68-3	Hexachlorobutadiene	11.7	13.7	117	13.6	116	1	70-130/30
110-54-3	Hexane	10.5	9.9	94	9.7	92	2	70-130/30
591-78-6	2-Hexanone	10.4	12.0	115	11.6	112	3	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.5	90	9.2	88	3	70-130/30
75-09-2	Methylene chloride	10.2	9.8	96	9.5	93	3	70-130/30
78-93-3	Methyl ethyl ketone	10.4	12.5	120	12.2	117	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	11.3	111	11.4	112	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10.3	98	10.2	97	1	70-130/30
80-62-6	Methylmethacrylate	10.3	11.3	110	11.2	109	1	70-130/30
91-20-3	Naphthalene	11.8	13.6	115	13.4	114	1	70-130/30
115-07-1	Propylene	10.6	9.5	90	9.0	85	5	70-130/30
100-42-5	Styrene	10.9	12.5	115	12.2	112	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	11.3	109	11.0	106	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	12.4	113	12.1	110	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	11.2	107	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	13.5	115	13.1	112	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	13.3	122	13.0	119	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.6	108	11.4	107	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	10.4	102	10.6	104	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	10.2	106	9.7	101	5	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.5	117	3	70-130/30
109-99-9	Tetrahydrofuran	9.7	11.4	118	11.0	113	4	70-130/30
108-88-3	Toluene	10.6	10.6	100	10.8	102	2	70-130/30
79-01-6	Trichloroethylene	9.9	11.1	112	11.1	112	0	70-130/30
75-69-4	Trichlorofluoromethane	10.1	11.7	116	12.8	127	9	70-130/30
75-01-4	Vinyl chloride	10.2	10.8	106	10.7	105	1	70-130/30
108-05-4	Vinyl Acetate	10.2	11.4	112	11.3	111	1	70-130/30
	m,p-Xylene	21.2	23.5	111	23.4	110	0	70-130/30
95-47-6	o-Xylene	11	12.4	113	12.0	109	3	70-130/30
1330-20-7	Xylenes (total)	32.2	35.9	111	35.4	110	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2302-BS	5W60034.D	1	11/25/25	BK	n/a	n/a	V5W2302
V5W2302-BSD	5W60035.D	1	11/25/25	BK	n/a	n/a	V5W2302

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-2, JE23791-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.1	97	10.4	100	3	70-130/30
64-17-5	Ethanol	9.7	10.5	108	10.6	109	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	8.8	85	8.5	82	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.4	82	8.1	79	4	70-130/30
71-43-2	Benzene	10.4	9.8	94	9.6	92	2	70-130/30
75-27-4	Bromodichloromethane	9.9	10.3	104	10.1	102	2	70-130/30
75-25-2	Bromoform	10.6	15.4	145* [a]	15.1	142* [a]	2	70-130/30
74-83-9	Bromomethane	10.2	9.6	94	9.3	91	3	70-130/30
593-60-2	Bromoethene	10.1	10	99	9.7	96	3	70-130/30
100-44-7	Benzyl Chloride	10.5	9.9	94	9.7	92	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.1	86	9.0	85	1	70-130/30
108-90-7	Chlorobenzene	10.9	10.8	99	10.7	98	1	70-130/30
75-00-3	Chloroethane	10	8.5	85	8.3	83	2	70-130/30
67-66-3	Chloroform	10.5	10.3	98	10.1	96	2	70-130/30
74-87-3	Chloromethane	10.6	8.4	79	8.1	76	4	70-130/30
107-05-1	3-Chloropropene	10.2	8.8	86	8.6	84	2	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.6	102	10.6	102	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	10.7	105	10.5	103	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.1	97	3	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.5	93	9.1	89	4	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.0	93	9.8	92	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.3	103	11.0	100	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	9.4	92	9.2	90	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.9	96	9.6	93	3	70-130/30
123-91-1	1,4-Dioxane	9.9	10.3	104	10.0	101	3	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.7	101	10.2	96	5	70-130/30
124-48-1	Dibromochloromethane	10.4	11.7	113	11.5	111	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	8.8	86	8.6	84	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.1	97	9.8	94	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	9.9	98	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.6	101	10.5	100	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	10.6	99	10.6	99	0	70-130/30
106-46-7	p-Dichlorobenzene	10.8	10.8	100	10.9	101	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.5	99	2	70-130/30
64-17-5	Ethanol	9.7	8.7	90	8.4	87	4	70-130/30
100-41-4	Ethylbenzene	11	10.9	99	10.8	98	1	70-130/30
141-78-6	Ethyl Acetate	10.5	9.6	91	9.6	91	0	70-130/30
622-96-8	4-Ethyltoluene	10.6	10.8	102	10.7	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.2	106	11.0	104	2	70-130/30
76-14-2	Freon 114	10.4	10.1	97	9.8	94	3	70-130/30
142-82-5	Heptane	10.4	9.6	92	9.3	89	3	70-130/30
87-68-3	Hexachlorobutadiene	11.7	18.9	162* [a]	18.9	162* [a]	0	70-130/30
110-54-3	Hexane	10.5	9.5	90	9.2	88	3	70-130/30
591-78-6	2-Hexanone	10.4	8.5	82	8.4	81	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.0	86	8.8	84	2	70-130/30
75-09-2	Methylene chloride	10.2	9.0	88	8.8	86	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.6	92	9.3	89	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	8.9	87	8.8	86	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	9.6	91	9.3	89	3	70-130/30
80-62-6	Methylmethacrylate	10.3	10	97	9.7	94	3	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10	94	9.5	90	5	70-130/30
100-42-5	Styrene	10.9	11.1	102	11.1	102	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.3	99	10.1	97	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	10.8	98	10.7	97	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	10.8	103	10.5	100	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.3	139* [a]	16.3	139* [a]	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.1	102	11.1	102	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	10.8	101	10.8	101	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.4	92	9.2	90	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.2	75	7.1	74	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.7	119	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.2	95	4	70-130/30
108-88-3	Toluene	10.6	10.5	99	10.3	97	2	70-130/30
79-01-6	Trichloroethylene	9.9	10	101	9.7	98	3	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.3	102	10.0	99	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.4	82	8.2	80	2	70-130/30
108-05-4	Vinyl Acetate	10.2	9.8	96	9.6	94	2	70-130/30
	m,p-Xylene	21.2	21.0	99	20.7	98	1	70-130/30
95-47-6	o-Xylene	11	11.0	100	10.9	99	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.0	99	31.6	98	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	99%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	9.2	88	8.9	86	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.7	84	8.5	83	2	70-130/30
71-43-2	Benzene	10.4	9.9	95	9.8	94	1	70-130/30
75-27-4	Bromodichloromethane	9.9	10.6	107	10.3	104	3	70-130/30
75-25-2	Bromoform	10.6	16.0	151* [a]	15.9	150* [a]	1	70-130/30
74-83-9	Bromomethane	10.2	9.8	96	9.6	94	2	70-130/30
593-60-2	Bromoethene	10.1	10.2	101	10.0	99	2	70-130/30
100-44-7	Benzyl Chloride	10.5	10.5	100	10.3	98	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.4	89	9.3	88	1	70-130/30
108-90-7	Chlorobenzene	10.9	11.0	101	10.9	100	1	70-130/30
75-00-3	Chloroethane	10	9.0	90	8.8	88	2	70-130/30
67-66-3	Chloroform	10.5	10.6	101	10.4	99	2	70-130/30
74-87-3	Chloromethane	10.6	8.7	82	8.5	80	2	70-130/30
107-05-1	3-Chloropropene	10.2	9.1	89	8.8	86	3	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.8	104	10.8	104	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.1	109	10.9	107	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.3	99	1	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.8	96	10	98	2	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.4	97	10.1	94	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.6	105	11.3	103	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.1	99	9.8	96	3	70-130/30
78-87-5	1,2-Dichloropropane	10.3	10.3	100	10.1	98	2	70-130/30
123-91-1	1,4-Dioxane	9.9	10.8	109	10.4	105	4	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.6	100	10.4	98	2	70-130/30
124-48-1	Dibromochloromethane	10.4	12.2	117	11.9	114	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	9.0	88	8.7	85	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.3	99	10.1	97	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.4	103	10.2	101	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.8	103	10.8	103	0	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.1	104	10.9	102	2	70-130/30
106-46-7	p-Dichlorobenzene	10.8	11.1	103	10.9	101	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	10.1	105	9.9	103	2	70-130/30
64-17-5	Ethanol	9.7	7.7	79	7.5	77	3	70-130/30
100-41-4	Ethylbenzene	11	11.2	102	11.1	101	1	70-130/30
141-78-6	Ethyl Acetate	10.5	10.2	97	10.1	96	1	70-130/30
622-96-8	4-Ethyltoluene	10.6	11.0	104	11.0	104	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	10.4	100	10.2	98	2	70-130/30
142-82-5	Heptane	10.4	9.8	94	9.6	92	2	70-130/30
87-68-3	Hexachlorobutadiene	11.7	19.6	168* [a]	19.1	163* [a]	3	70-130/30
110-54-3	Hexane	10.5	9.7	92	9.6	91	1	70-130/30
591-78-6	2-Hexanone	10.4	9.2	88	9.1	88	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.7	92	9.3	89	4	70-130/30
75-09-2	Methylene chloride	10.2	9.2	90	9.0	88	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.8	94	9.5	91	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	9.5	93	9.4	92	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10	95	9.8	93	2	70-130/30
80-62-6	Methylmethacrylate	10.3	10.3	100	10.1	98	2	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10.2	96	9.9	93	3	70-130/30
100-42-5	Styrene	10.9	11.4	105	11.4	105	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.8	104	10.5	101	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	11.2	102	11.1	101	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	10.9	104	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.6	142* [a]	16.4	140* [a]	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.5	106	11.3	104	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.2	105	11.1	104	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.7	95	9.4	92	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.8	81	7.7	80	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	13.7	128	13.4	125	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.6	99	0	70-130/30
108-88-3	Toluene	10.6	10.8	102	10.5	99	3	70-130/30
79-01-6	Trichloroethylene	9.9	10.1	102	10	101	1	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.7	106	10.4	103	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.9	87	8.7	85	2	70-130/30
108-05-4	Vinyl Acetate	10.2	10.2	100	9.9	97	3	70-130/30
	m,p-Xylene	21.2	21.4	101	21.3	100	0	70-130/30
95-47-6	o-Xylene	11	11.2	102	11.1	101	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.6	101	32.4	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	155		157		1	25
106-99-0	1,3-Butadiene	ND [a]		ND		nc	25
71-43-2	Benzene	0.28 [a]		ND		200* [b]	25
75-27-4	Bromodichloromethane	ND [a]		ND		nc	25
75-25-2	Bromoform	ND [a]		ND		nc	25
74-83-9	Bromomethane	ND [a]		ND		nc	25
593-60-2	Bromoethene	ND [a]		ND		nc	25
100-44-7	Benzyl Chloride	ND [a]		ND		nc	25
75-15-0	Carbon disulfide	ND [a]		ND		nc	25
108-90-7	Chlorobenzene	ND [a]		ND		nc	25
75-00-3	Chloroethane	ND [a]		ND		nc	25
67-66-3	Chloroform	0.24 [a]		ND		200* [b]	25
74-87-3	Chloromethane	0.11 [a]		ND		200* [b]	25
107-05-1	3-Chloropropene	ND [a]		ND		nc	25
95-49-8	2-Chlorotoluene	ND [a]		ND		nc	25
56-23-5	Carbon tetrachloride	ND [a]		ND		nc	25
110-82-7	Cyclohexane	0.18 [a]		ND		200* [b]	25
75-34-3	1,1-Dichloroethane	ND [a]		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND [a]		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND [a]		ND		nc	25
107-06-2	1,2-Dichloroethane	ND [a]		ND		nc	25
78-87-5	1,2-Dichloropropane	ND [a]		ND		nc	25
123-91-1	1,4-Dioxane	ND [a]		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.50 [a]		0.51	J	2	25
124-48-1	Dibromochloromethane	ND [a]		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND [a]		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND [a]		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND [a]		ND		nc	25
541-73-1	m-Dichlorobenzene	0.23 [a]		ND		200* [b]	25
95-50-1	o-Dichlorobenzene	ND [a]		ND		nc	25
106-46-7	p-Dichlorobenzene	ND [a]		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND [a]		ND		nc	25
64-17-5	Ethanol	205		209		2	25
100-41-4	Ethylbenzene	0.14 [a]		ND		200* [b]	25
141-78-6	Ethyl Acetate	17.7 [a]		16.3		8	25
622-96-8	4-Ethyltoluene	ND [a]		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND [a]		ND		nc	25
76-14-2	Freon 114	ND [a]		ND		nc	25
142-82-5	Heptane	5.6 [a]		5.1		9	25
87-68-3	Hexachlorobutadiene	ND [a]		ND		nc	25
110-54-3	Hexane	0.34 [a]		ND		200* [b]	25
591-78-6	2-Hexanone	ND [a]		ND		nc	25
67-63-0	Isopropyl Alcohol	11.9 [a]		12.5		5	25
75-09-2	Methylene chloride	0.27 [a]		ND		200* [b]	25
78-93-3	Methyl ethyl ketone	2.0 [a]		1.7		16	25
108-10-1	Methyl Isobutyl Ketone	ND [a]		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND [a]		ND		nc	25
80-62-6	Methylmethacrylate	4.9 [a]		4.6		6	25
91-20-3	Naphthalene	ND [a]		ND		nc	25
115-07-1	Propylene	ND [a]		ND		nc	25
100-42-5	Styrene	ND [a]		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND [a]		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND [a]		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND [a]		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND [a]		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND [a]		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND [a]		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	3.1 [a]		3.4		9	25
127-18-4	Tetrachloroethylene	0.76 [a]		0.80		5	25
109-99-9	Tetrahydrofuran	0.14 [a]		ND		200* [b]	25
108-88-3	Toluene	1.1 [a]		1.1		0	25
79-01-6	Trichloroethylene	ND [a]		ND		nc	25
75-69-4	Trichlorofluoromethane	1.0 [a]		1.0		0	25
75-01-4	Vinyl chloride	ND [a]		ND		nc	25
108-05-4	Vinyl Acetate	1.1 [a]		0.85		26* [c]	25
	m,p-Xylene	0.44 [a]		ND		200* [b]	25
95-47-6	o-Xylene	0.17 [a]		ND		200* [b]	25
1330-20-7	Xylenes (total)	0.61 [a]		ND		200* [b]	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-1, JE23791-2, JE23791-3, JE23791-4

CAS No.	Surrogate Recoveries	DUP	JE23789-3	JE23789-3	Limits
460-00-4	4-Bromofluorobenzene	109%	108%	109%	65-128%

(a) Result is from Run #2.
(b) RPD acceptable due to low DUP and sample concentrations.
(c) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23836-1DUP	5W60041.D	1	11/25/25	BK	n/a	n/a	V5W2302
JE23836-1	5W60040.D	1	11/25/25	BK	n/a	n/a	V5W2302

The QC reported here applies to the following samples: **Method:** TO-15

JE23791-2, JE23791-4

CAS No.	Compound	JE23836-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	3.7		3.5		6	25
64-17-5	Ethanol	6.8		7.0		3	25

CAS No.	Surrogate Recoveries	DUP	JE23836-1	Limits
460-00-4	4-Bromofluorobenzene	106%	105%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23791-1(A1167), JE23791-2(A1657)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23791-1(A1167), JE23791-2(A1657)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23791-1(A1167), JE23791-2(A1657)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Summa Cleaning Certification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23791-3(A655), JE23791-4(A215)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23791-3(A655), JE23791-4(A215)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23791-3(A655), JE23791-4(A215)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2292-BFB	**Injection Date:**	11/06/25
Lab File ID:	5W59768.D	**Injection Time:**	21:59
Instrument ID:	GCMS5W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	135749	18.8		Pass
75	30.0 - 66.0% of mass 95	334528	46.4		Pass
95	Base peak, 100% relative abundance	720341	100.0		Pass
96	5.0 - 9.0% of mass 95	49469	6.87		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	662677	92.0		Pass
175	4.0 - 9.01% of mass 174	51795	7.19	(7.82) [a]	Pass
176	93.0 - 101.0% of mass 174	657579	91.3	(99.2) [a]	Pass
177	5.0 - 9.0% of mass 176	45267	6.28	(6.88) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2292-IC2292	5W59769.D	11/06/25	22:35	00:36	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25	23:11	01:12	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25	23:50	01:51	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25	03:41	05:42	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25	06:57	08:58	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25	07:33	09:34	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25	08:12	10:13	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25	08:54	10:55	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25	09:38	11:39	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25	10:24	12:25	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25	12:25	14:26	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2301-BFB
Lab File ID: 5W60000.D
Instrument ID: GCMS5W
Injection Date: 11/24/25
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	126995	16.6		Pass
75	30.0 - 66.0% of mass 95	346987	45.5		Pass
95	Base peak, 100% relative abundance	763029	100.0		Pass
96	5.0 - 9.0% of mass 95	51400	6.74		Pass
173	Less than 2.0% of mass 174	6908	0.91	(0.88) [a]	Pass
174	50.0 - 120.0% of mass 95	783595	102.7		Pass
175	4.0 - 9.01% of mass 174	58229	7.63	(7.43) [a]	Pass
176	93.0 - 101.0% of mass 174	761195	99.8	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	50824	6.66	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2301-CC2292	5W60001.D	11/24/25	09:49	00:37	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25	12:02	02:50	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25	12:39	03:27	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25	14:27	05:15	Method Blank
ZZZZZZ	5W60006.D	11/24/25	15:18	06:06	(unrelated sample)
JE23789-3	5W60007.D	11/24/25	15:56	06:44	(used for QC only; not part of job JE23791)
JE23789-3DUP	5W60008.D	11/24/25	16:33	07:21	Duplicate
ZZZZZZ	5W60009.D	11/24/25	17:15	08:03	(unrelated sample)
ZZZZZZ	5W60010.D	11/24/25	17:58	08:46	(unrelated sample)
JE23791-1	5W60011.D	11/24/25	18:41	09:29	SS-1
JE23791-2	5W60012.D	11/24/25	19:25	10:13	IA-1
JE23791-3	5W60013.D	11/24/25	20:08	10:56	SS-2
JE23791-4	5W60014.D	11/24/25	20:52	11:40	IA-2
ZZZZZZ	5W60015.D	11/24/25	21:35	12:23	(unrelated sample)
ZZZZZZ	5W60016.D	11/24/25	22:19	13:07	(unrelated sample)
ZZZZZZ	5W60017.D	11/24/25	23:02	13:50	(unrelated sample)
ZZZZZZ	5W60018.D	11/24/25	23:46	14:34	(unrelated sample)
ZZZZZZ	5W60019.D	11/25/25	00:29	15:17	(unrelated sample)
ZZZZZZ	5W60020.D	11/25/25	01:14	16:02	(unrelated sample)
ZZZZZZ	5W60021.D	11/25/25	01:58	16:46	(unrelated sample)
ZZZZZZ	5W60022.D	11/25/25	02:43	17:31	(unrelated sample)
ZZZZZZ	5W60023.D	11/25/25	03:27	18:15	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25	04:12	19:00	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25	05:54	20:42	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2301-BFB	**Injection Date:**	11/24/25
Lab File ID:	5W60000.D	**Injection Time:**	09:12
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W60027.D	11/25/25	06:37	21:25	(unrelated sample)
JE23789-3	5W60028.D	11/25/25	07:20	22:08	(used for QC only; not part of job JE23791)
JE23791-1	5W60029.D	11/25/25	07:57	22:45	SS-1
JE23791-2	5W60030.D	11/25/25	08:34	23:22	IA-1

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2302-BFB
Lab File ID: 5W60032.D
Instrument ID: GCMS5W
Injection Date: 11/25/25
Injection Time: 10:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	130963	17.2		Pass
75	30.0 - 66.0% of mass 95	348164	45.8		Pass
95	Base peak, 100% relative abundance	760597	100.0		Pass
96	5.0 - 9.0% of mass 95	52472	6.90		Pass
173	Less than 2.0% of mass 174	6427	0.84	(0.88) [a]	Pass
174	50.0 - 120.0% of mass 95	728939	95.8		Pass
175	4.0 - 9.01% of mass 174	55245	7.26	(7.58) [a]	Pass
176	93.0 - 101.0% of mass 174	707051	93.0	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	47832	6.29	(6.76) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2302-CC2292	5W60033.D	11/25/25	11:25	01:20	Continuing cal 10
V5W2302-BS	5W60034.D	11/25/25	12:07	02:02	Blank Spike
V5W2302-BSD	5W60035.D	11/25/25	12:44	02:39	Blank Spike Duplicate
V5W2302-MB	5W60038.D	11/25/25	15:07	05:02	Method Blank
JE23791-2	5W60039.D	11/25/25	15:53	05:48	IA-1
JE23836-1	5W60040.D	11/25/25	16:35	06:30	(used for QC only; not part of job JE23791)
JE23836-1DUP	5W60041.D	11/25/25	17:18	07:13	Duplicate
JE23791-4	5W60042.D	11/25/25	17:54	07:49	IA-2
ZZZZZZ	5W60043.D	11/25/25	18:32	08:27	(unrelated sample)
ZZZZZZ	5W60044.D	11/25/25	19:09	09:04	(unrelated sample)
ZZZZZZ	5W60045.D	11/25/25	19:46	09:41	(unrelated sample)
ZZZZZZ	5W60046.D	11/25/25	20:23	10:18	(unrelated sample)
ZZZZZZ	5W60047.D	11/25/25	20:59	10:54	(unrelated sample)
ZZZZZZ	5W60048.D	11/25/25	21:36	11:31	(unrelated sample)
ZZZZZZ	5W60049.D	11/25/25	22:13	12:08	(unrelated sample)
ZZZZZZ	5W60050.D	11/25/25	22:50	12:45	(unrelated sample)
ZZZZZZ	5W60051.D	11/25/25	23:27	13:22	(unrelated sample)
ZZZZZZ	5W60052.D	11/26/25	00:03	13:58	(unrelated sample)
ZZZZZZ	5W60053.D	11/26/25	00:40	14:35	(unrelated sample)
ZZZZZZ	5W60054.D	11/26/25	01:16	15:11	(unrelated sample)
ZZZZZZ	5W60055.D	11/26/25	01:52	15:47	(unrelated sample)
ZZZZZZ	5W60056.D	11/26/25	02:28	16:23	(unrelated sample)
ZZZZZZ	5W60057.D	11/26/25	03:04	16:59	(unrelated sample)
ZZZZZZ	5W60058.D	11/26/25	03:40	17:35	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2302-BFB	**Injection Date:**	11/25/25
Lab File ID:	5W60032.D	**Injection Time:**	10:05
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W60059.D	11/26/25	04:16	18:11	(unrelated sample)
ZZZZZZ	5W60060.D	11/26/25	04:52	18:47	(unrelated sample)
ZZZZZZ	5W60061.D	11/26/25	05:28	19:23	(unrelated sample)
ZZZZZZ	5W60062.D	11/26/25	06:04	19:59	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-BFB
Lab File ID: 7W16573.D
Instrument ID: GCMS7W
Injection Date: 08/07/25
Injection Time: 02:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	26979	21.8		Pass
75	30.0 - 66.0% of mass 95	60811	49.0		Pass
95	Base peak, 100% relative abundance	123992	100.0		Pass
96	5.0 - 9.0% of mass 95	7953	6.41		Pass
173	Less than 2.0% of mass 174	724	0.58	(0.83) [a]	Pass
174	50.0 - 120.0% of mass 95	87088	70.2		Pass
175	4.0 - 9.01% of mass 174	6502	5.24	(7.47) [a]	Pass
176	93.0 - 101.0% of mass 174	87355	70.5	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	5835	4.71	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W577-IC577	7W16576.D	08/07/25	04:00	01:55	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25	04:38	02:33	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25	08:36	06:31	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25	09:13	07:08	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25	12:29	10:24	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25	13:07	11:02	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25	13:47	11:42	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25	14:30	12:25	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25	15:15	13:10	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25	16:02	13:57	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25	18:07	16:02	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W613-BFB
Lab File ID: 7W17472.D
Instrument ID: GCMS7W
Injection Date: 09/26/25
Injection Time: 10:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	24211	19.5		Pass
75	30.0 - 66.0% of mass 95	60491	48.8		Pass
95	Base peak, 100% relative abundance	124040	100.0		Pass
96	5.0 - 9.0% of mass 95	8048	6.49		Pass
173	Less than 2.0% of mass 174	644	0.52	(0.57) [a]	Pass
174	50.0 - 120.0% of mass 95	113392	91.4		Pass
175	4.0 - 9.01% of mass 174	8039	6.48	(7.09) [a]	Pass
176	93.0 - 101.0% of mass 174	109491	88.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7193	5.80	(6.57) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W613-CC577	7W17473.D	09/26/25	11:04	00:39	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25	11:54	01:29	Blank Spike
V7W613-BSD	7W17475.D	09/26/25	12:32	02:07	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25	14:01	03:36	Method Blank
ZZZZZZ	7W17478.D	09/26/25	15:51	05:26	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25	16:43	06:18	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25	17:30	07:05	(unrelated sample)
JE19193-2	7W17481.D	09/26/25	18:21	07:56	(used for QC only; not part of job JE23791)
JE19193-2DUP	7W17482.D	09/26/25	19:09	08:44	Duplicate
V7W613-SCC	7W17483.D	09/26/25	19:55	09:30	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25	20:38	10:13	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25	21:22	10:57	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25	22:06	11:41	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25	22:50	12:25	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25	23:33	13:08	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25	00:13	13:48	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25	00:52	14:27	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25	01:31	15:06	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25	02:11	15:46	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25	02:50	16:25	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25	03:29	17:04	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25	04:08	17:43	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25	04:48	18:23	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W624-BFB
Lab File ID: 7W17800.D
Instrument ID: GCMS7W
Injection Date: 10/13/25
Injection Time: 10:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	32653	19.8		Pass
75	30.0 - 66.0% of mass 95	83059	50.4		Pass
95	Base peak, 100% relative abundance	164693	100.0		Pass
96	5.0 - 9.0% of mass 95	10435	6.34		Pass
173	Less than 2.0% of mass 174	1376	0.84	(0.93) [a]	Pass
174	50.0 - 120.0% of mass 95	148181	90.0		Pass
175	4.0 - 9.01% of mass 174	10927	6.63	(7.37) [a]	Pass
176	93.0 - 101.0% of mass 174	148821	90.4	(100.4) [a]	Pass
177	5.0 - 9.0% of mass 176	9210	5.59	(6.19) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W624-CC577	7W17801.D	10/13/25	11:18	00:37	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25	12:00	01:19	Blank Spike
V7W624-BSD	7W17803.D	10/13/25	12:37	01:56	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25	14:03	03:22	Method Blank
ZZZZZZ	7W17806.D	10/13/25	15:24	04:43	(unrelated sample)
JE20702-1	7W17807.D	10/13/25	16:09	05:28	(used for QC only; not part of job JE23791)
JE20702-1DUP	7W17808.D	10/13/25	16:55	06:14	Duplicate
ZZZZZZ	7W17809.D	10/13/25	17:45	07:04	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25	18:38	07:57	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25	19:25	08:44	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25	20:14	09:33	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25	21:05	10:24	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25	21:58	11:17	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25	22:49	12:08	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25	23:42	13:01	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25	00:27	13:46	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25	01:14	14:33	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25	02:02	15:21	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25	02:51	16:10	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25	03:40	16:59	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25	04:19	17:38	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25	04:58	18:17	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25	05:38	18:57	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25	06:17	19:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W624-BFB	**Injection Date:**	10/13/25
Lab File ID:	7W17800.D	**Injection Time:**	10:41
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W17826.D	10/14/25	06:55	20:14	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25	07:39	20:58	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25	08:23	21:42	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25	09:07	22:26	Summa Cleaning Certification

Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V5W2301-CC2292	**Injection Date:**	11/24/25
Lab File ID:	5W60001.D	**Injection Time:**	09:49
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	470220	7.35	2049823	9.21	1097928	13.53
Upper Limit [a]	658308	7.68	2869752	9.54	1537099	13.86
Lower Limit [b]	282132	7.02	1229894	8.88	658757	13.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2301-BS	477635	7.35	2106400	9.21	1093252	13.53
V5W2301-BSD	479179	7.35	2114849	9.21	1129270	13.53
V5W2301-MB	551412	7.35	2422137	9.21	1175032	13.53
ZZZZZZ	479276	7.34	2151488	9.20	1006479	13.53
JE23789-3	486262	7.35	2215300	9.21	1093617	13.53
JE23789-3DUP	490041	7.35	2190031	9.21	1089506	13.53
ZZZZZZ	467172	7.35	2081525	9.21	995730	13.53
ZZZZZZ	492269	7.35	2182901	9.21	1069119	13.53
JE23791-1	456556	7.35	2083658	9.21	1040810	13.53
JE23791-2	478467	7.35	2172826	9.21	1077180	13.53
JE23791-3	475205	7.35	2156975	9.21	973217	13.53
JE23791-4	468744	7.35	2166394	9.21	1085776	13.53
ZZZZZZ	474128	7.35	2121035	9.21	1035907	13.53
ZZZZZZ	481013	7.35	2162967	9.21	1070422	13.53
ZZZZZZ	475052	7.35	2137020	9.21	997545	13.53
ZZZZZZ	474848	7.36	2108916	9.21	1017029	13.53
ZZZZZZ	488279	7.35	2202107	9.21	1020272	13.53
ZZZZZZ	464538	7.35	2148688	9.21	1036446	13.53
ZZZZZZ	494809	7.34	2211542	9.20	1056914	13.53
ZZZZZZ	469833	7.35	2110422	9.21	1027988	13.53
ZZZZZZ	476461	7.35	2112621	9.21	1018512	13.53
ZZZZZZ	489936	7.35	2117411	9.21	1030226	13.53
ZZZZZZ	488795	7.35	2169845	9.21	1097700	13.53
ZZZZZZ	457379	7.35	2030446	9.21	965813	13.53
JE23789-3	487990	7.35	2191861	9.21	1085055	13.53
JE23791-1	467512	7.34	2049365	9.21	954808	13.53
JE23791-2	474173	7.35	2069410	9.21	971499	13.53

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V5W2302-CC2292	**Injection Date:**	11/25/25
Lab File ID:	5W60033.D	**Injection Time:**	11:25
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	479901	7.35	2125026	9.21	1123740	13.53
Upper Limit [a]	671861	7.68	2975036	9.54	1573236	13.86
Lower Limit [b]	287941	7.02	1275016	8.88	674244	13.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2302-BS	484085	7.35	2150988	9.21	1139142	13.53
V5W2302-BSD	491831	7.35	2169558	9.21	1169223	13.53
V5W2302-MB	534553	7.34	2339544	9.21	1127485	13.53
JE23791-2	485702	7.35	2116733	9.21	975259	13.53
JE23836-1	503753	7.34	2256000	9.21	1110199	13.53
JE23836-1DUP	486599	7.35	2151791	9.21	1070377	13.53
JE23791-4	470578	7.35	2109256	9.21	1023811	13.53
ZZZZZZ	438072	7.35	1718293	9.21	876380	13.53
ZZZZZZ	463002	7.34	2025402	9.21	1021059	13.53
ZZZZZZ	460185	7.35	1978146	9.21	925146	13.53
ZZZZZZ	464009	7.34	2093839	9.21	1020883	13.53
ZZZZZZ	450636	7.35	1978369	9.21	911648	13.53
ZZZZZZ	443041	7.34	1774355	9.21	912757	13.53
ZZZZZZ	441511	7.35	1900700	9.21	912612	13.53
ZZZZZZ	451040	7.35	1905444	9.21	923639	13.53
ZZZZZZ	444195	7.35	1902986	9.21	885047	13.53
ZZZZZZ	453780	7.35	1937056	9.21	893133	13.53
ZZZZZZ	424903	7.35	1767695	9.21	867969	13.53
ZZZZZZ	436535	7.35	1874650	9.21	930904	13.53
ZZZZZZ	528997	7.35	2381590	9.21	1147182	13.53
ZZZZZZ	502439	7.35	2179736	9.21	1015014	13.53
ZZZZZZ	432891	7.35	1916933	9.21	922717	13.53
ZZZZZZ	432805	7.35	1814949	9.21	864470	13.53
ZZZZZZ	439626	7.35	1857490	9.21	893743	13.53
ZZZZZZ	437690	7.35	1921626	9.21	894129	13.53
ZZZZZZ	448159	7.35	1951260	9.21	945257	13.53
ZZZZZZ	423306	7.35	1859267	9.21	861435	13.53

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W613-CC577	**Injection Date:**	09/26/25
Lab File ID:	7W17473.D	**Injection Time:**	11:04
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	116358	3.19	571811	4.45	520899	9.97
Upper Limit [a]	162901	3.52	800535	4.78	729259	10.30
Lower Limit [b]	69815	2.86	343087	4.12	312539	9.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W613-BS	117537	3.19	576557	4.45	537853	9.97
V7W613-BSD	119187	3.19	585415	4.45	537645	9.97
V7W613-MB	128174	3.19	642694	4.45	594320	9.96
ZZZZZZ	119787	3.19	602923	4.45	564591	9.96
ZZZZZZ	115596	3.19	572850	4.45	549268	9.97
ZZZZZZ	119426	3.19	598587	4.45	559501	9.97
JE19193-2	112064	3.19	565732	4.45	535025	9.96
JE19193-2DUP	119852	3.19	593173	4.45	552085	9.97
V7W613-SCC	122841	3.19	609530	4.45	568575	9.97
V7W613-SCC	123267	3.19	612589	4.45	566370	9.97
V7W613-SCC	124035	3.19	614922	4.45	572447	9.97
V7W613-SCC	122792	3.19	613182	4.45	569186	9.97
V7W613-SCC	123364	3.19	617156	4.45	570765	9.96
V7W613-SCC	121230	3.19	603406	4.45	557323	9.97
V7W613-SCC	124644	3.20	619956	4.46	573347	9.97
V7W613-SCC	122766	3.20	607988	4.46	562421	9.97
V7W613-SCC	122015	3.20	599456	4.46	558700	9.97
V7W613-SCC	123531	3.20	612393	4.46	566814	9.97
V7W613-SCC	121013	3.20	597047	4.46	554808	9.97
V7W613-SCC	125065	3.20	614767	4.46	568943	9.97
V7W613-SCC	124050	3.21	612021	4.46	566843	9.97
V7W613-SCC	122222	3.20	607269	4.46	565306	9.97

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W624-CC577	**Injection Date:**	10/13/25
Lab File ID:	7W17801.D	**Injection Time:**	11:18
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	133953	3.19	659891	4.45	616286	9.96
Upper Limit [a]	187534	3.52	923847	4.78	862800	10.29
Lower Limit [b]	80372	2.86	395935	4.12	369772	9.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W624-BS	130379	3.19	642815	4.45	599585	9.97
V7W624-BSD	133015	3.19	654252	4.45	606507	9.97
V7W624-MB	141808	3.19	703798	4.45	657479	9.96
ZZZZZZ	135394	3.21	669430	4.46	626248	9.97
JE20702-1	133082	3.19	664568	4.45	629037	9.96
JE20702-1DUP	127619	3.19	640507	4.45	607064	9.96
ZZZZZZ	128810	3.19	643176	4.45	605309	9.96
ZZZZZZ	125599	3.19	622159	4.45	593488	9.96
ZZZZZZ	127374	3.19	637226	4.45	604051	9.96
ZZZZZZ	125963	3.19	637764	4.45	602349	9.96
ZZZZZZ	131364	3.19	653605	4.45	609498	9.97
ZZZZZZ	123237	3.19	615381	4.45	583060	9.96
ZZZZZZ	131555	3.19	651668	4.45	604825	9.96
ZZZZZZ	123888	3.19	619782	4.45	585599	9.96
ZZZZZZ	122352	3.19	617796	4.45	579165	9.96
ZZZZZZ	122263	3.21	606145	4.46	576052	9.97
ZZZZZZ	123557	3.21	619493	4.46	584556	9.97
ZZZZZZ	129322	3.20	648769	4.46	605277	9.97
ZZZZZZ	130607	3.20	657333	4.46	618632	9.97
ZZZZZZ	127305	3.21	641300	4.46	595091	9.97
ZZZZZZ	132250	3.20	664281	4.46	620218	9.97
ZZZZZZ	131975	3.21	668505	4.46	623685	9.97
ZZZZZZ	127594	3.21	644592	4.46	596854	9.97
ZZZZZZ	133020	3.20	677172	4.46	625775	9.97
V7W624-SCC	133491	3.19	659279	4.45	611978	9.97
V7W624-SCC	139794	3.19	685797	4.45	636271	9.97
V7W624-SCC	138603	3.19	685964	4.45	631471	9.96

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.35	0.644	ok	0.638	0.578-0.698
Acrolein	4.62	7.35	0.629	ok	0.623	0.563-0.683
Acrylonitrile	5.11	7.35	0.695	ok	0.688	0.628-0.748
Acetonitrile	4.53	7.35	0.616	ok	0.611	0.551-0.671
1,3-Butadiene	3.93	7.35	0.535	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.40	13.53	1.138	ok	1.136	1.076-1.196
Bromodichloromethane	9.87	9.21	1.072	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.62	13.53	1.228	ok	1.225	1.165-1.285
n-Butylbenzene	17.33	13.53	1.281	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.45	13.53	1.216	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.49	7.35	1.019	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.54	7.35	0.754	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.10	9.21	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.44	7.35	0.876	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.45	13.53	0.920	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.80	9.21	1.281	ok	1.277	1.217-1.337
1,4-Dioxane	10.05	9.21	1.091	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.30	7.35	0.585	ok	0.583	0.523-0.643
Dibromochloromethane	12.18	13.53	0.900	ok	0.898	0.838-0.958
Dibromomethane	9.65	9.21	1.048	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.79	9.21	1.172	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.62	13.53	1.228	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.01	13.53	1.257	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.68	13.53	1.233	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.36	9.21	1.233	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.46	7.35	1.015	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.35	7.35	0.592	ok	0.589	0.529-0.649
Ethylbenzene	14.03	13.53	1.037	ok	1.034	0.974-1.094
Ethyl Acetate	7.21	7.35	0.981	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.25	13.53	0.905	ok	0.891	0.831-0.951
4-Ethyltoluene	16.00	13.53	1.183	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.38	7.35	0.460	ok	0.458	0.398-0.518
Freon 123	4.61	7.35	0.627	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.46	7.35	0.471	ok	0.468	0.408-0.528
Heptane	10.21	9.21	1.109	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.32	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.94	7.35	0.672	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.89	13.53	1.248	ok	1.246	1.186-1.306
Methyl Acrylate	7.40	7.35	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl Tert Butyl Ether	6.56	7.35	0.893	ok	0.884	0.824-0.944
alpha-Methylstyrene	16.25	13.53	1.201	ok	1.197	1.137-1.257
Naphthalene	18.73	13.53	1.384	ok	1.380	1.320-1.440
Nonane	14.94	13.53	1.104	ok	1.103	1.043-1.163
Octane	12.77	13.53	0.944	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.86	13.53	1.172	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.70	13.53	1.086	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.71	13.53	1.087	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.48	9.21	1.246	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.92	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.87	13.53	1.247	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.47	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.07	13.53	1.188	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Toluene	11.76	9.21	1.277	ok	1.273	1.213-1.333
Trichloroethylene	9.91	9.21	1.076	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.22	13.53	1.051	ok	1.048	0.988-1.108
o-Xylene	14.71	13.53	1.087	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.10	13.53	0.377	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	470818	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2113713	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1047801	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.09	7.35	0.693	ok	0.688	0.628-0.748
Acetonitrile	4.52	7.35	0.615	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.60	13.53	1.227	ok	1.225	1.165-1.285
n-Butylbenzene	17.29	13.53	1.278	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.44	13.53	1.215	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.43	13.53	0.919	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.79	9.21	1.280	ok	1.277	1.217-1.337
1,4-Dioxane	10.03	9.21	1.089	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.17	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.78	9.21	1.170	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.60	13.53	1.227	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.00	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.67	13.53	1.232	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.33	9.21	1.230	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.45	7.35	1.014	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.02	13.53	1.036	ok	1.034	0.974-1.094
Ethyl Acetate	7.54	7.35	1.026	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.12	13.53	0.896	ok	0.891	0.831-0.951
4-Ethyltoluene	15.98	13.53	1.181	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.20	9.21	1.107	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.51	7.35	1.022	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.92	7.35	0.941	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.96	9.21	1.190	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.55	7.35	0.891	ok	0.884	0.824-0.944
Methylmethacrylate	10.22	9.21	1.110	ok	1.100	1.040-1.160
alpha-Methylstyrene	16.23	13.53	1.200	ok	1.197	1.137-1.257
Naphthalene	18.70	13.53	1.382	ok	1.380	1.320-1.440

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.76	13.53	0.943	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.85	13.53	1.171	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.62	13.53	1.081	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.91	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.46	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Tetrahydrofuran	7.97	7.35	1.084	ok	1.072	1.012-1.132
Toluene	11.75	9.21	1.276	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.20	13.53	1.050	ok	1.048	0.988-1.108
o-Xylene	14.70	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	483296	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2143191	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1063437	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.08	7.35	0.691	ok	0.688	0.628-0.748
Acetonitrile	4.51	7.35	0.614	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.26	13.53	1.054	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.59	13.53	1.226	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.41	13.53	0.917	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.78	9.21	1.279	ok	1.277	1.217-1.337
1,4-Dioxane	10.00	9.21	1.086	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.77	9.21	1.169	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.99	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.31	9.21	1.228	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.44	7.35	1.012	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.00	13.53	1.035	ok	1.034	0.974-1.094
Ethyl Acetate	7.50	7.35	1.020	ok	1.010	0.950-1.070
Ethyl Acrylate	9.80	9.21	1.064	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.08	13.53	0.893	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.17	13.53	0.899	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.49	7.35	1.019	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.90	7.35	0.939	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.89	9.21	1.182	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.54	7.35	0.890	ok	0.884	0.824-0.944
Methylmethacrylate	10.17	9.21	1.104	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.22	13.53	1.199	ok	1.197	1.137-1.257
Naphthalene	18.68	13.53	1.381	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.83	13.53	1.170	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.60	13.53	1.079	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.90	13.53	1.397	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.84	13.53	1.097	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.53	1.216	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.46	7.35	0.743	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.95	7.35	1.082	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.62	7.35	0.901	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.53	1.049	ok	1.048	0.988-1.108
o-Xylene	14.69	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	467597	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2126307	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1045384	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.71	7.35	0.641	ok	0.638	0.578-0.698
Acrolein	4.59	7.35	0.624	ok	0.623	0.563-0.683
Acrylonitrile	5.06	7.35	0.688	ok	0.688	0.628-0.748
Acetonitrile	4.50	7.35	0.612	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.53	1.053	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.53	1.225	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.35	0.476	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.53	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.35	1.113	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.21	1.049	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.77	9.21	1.278	ok	1.277	1.217-1.337
1,4-Dioxane	9.97	9.21	1.083	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.21	1.168	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.53	1.255	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.30	9.21	1.227	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.42	7.35	1.010	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.53	1.034	ok	1.034	0.974-1.094
Ethyl Acetate	7.47	7.35	1.016	ok	1.010	0.950-1.070
Ethyl Acrylate	9.74	9.21	1.058	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.05	13.53	0.891	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.08	13.53	0.893	ok	0.889	0.829-0.949
Iodomethane	5.25	7.35	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.53	1.131	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.91	7.35	0.668	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.53	1.246	ok	1.246	1.186-1.306
Methyl Acrylate	7.45	7.35	1.014	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.86	7.35	0.933	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.85	9.21	1.178	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.52	7.35	0.887	ok	0.884	0.824-0.944
Methylmethacrylate	10.14	9.21	1.101	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.21	13.53	1.198	ok	1.197	1.137-1.257
Naphthalene	18.67	13.53	1.380	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.53	1.169	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.59	13.53	1.078	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.46	9.21	1.244	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.53	1.396	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.83	13.53	1.096	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.53	1.245	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.53	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.44	7.35	0.740	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.92	7.35	1.078	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.60	7.35	0.898	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.53	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.53	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	472964	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2121089	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1052969	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.68	7.35	0.637	ok	0.638	0.578-0.698
Acrolein	4.58	7.35	0.623	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.35	0.687	ok	0.688	0.628-0.748
Acetonitrile	4.49	7.35	0.611	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.91	9.21	1.076	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.43	7.35	1.011	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.21	1.052	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.02	13.54	0.888	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.35	0.664	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.80	9.21	1.173	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.49	7.35	0.883	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.87	7.35	1.071	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.35	0.894	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	462457	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2061895	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1060612	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.35	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.35	0.622	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.35	0.686	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.35	0.610	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.90	9.21	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.19	7.35	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.35	1.010	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.54	0.887	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.29	13.54	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.35	0.663	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.85	13.54	1.244	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.48	7.35	0.882	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.86	7.35	1.069	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.56	7.35	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	458592	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2019630	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1088548	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.36	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.49	7.36	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.21	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.36	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.60	7.36	0.625	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.45	7.36	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.85	7.36	1.067	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.36	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	450013	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	1932450	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1113631	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.54	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.54	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.22	1.047	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.54	0.898	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.22	1.223	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.94	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.54	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.54	1.085	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.54	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	458599	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1942721	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1247352	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.56	7.36	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.55	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.10	7.36	0.557	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.94	7.36	0.535	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.55	1.223	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.55	1.274	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.36	0.573	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.36	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.36	1.018	ok	1.017	0.957-1.077
Chloromethane	3.66	7.36	0.497	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.36	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.55	1.229	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.25	7.36	0.713	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.55	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.49	7.36	0.474	ok	0.476	0.416-0.536
Styrene	14.57	13.55	1.075	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.55	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.55	1.184	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.81	7.36	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	467162	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1929313	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1280918	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.37	0.634	ok	0.638	0.578-0.698
Acrolein	4.57	7.37	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.37	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.37	0.608	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.37	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.55	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.37	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.37	0.608	ok	0.610	0.550-0.670
n-Butane	3.95	7.37	0.536	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.55	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.55	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.37	0.769	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.37	0.472	ok	0.473	0.413-0.533
Chloroethane	4.23	7.37	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.37	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.37	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.37	0.498	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.37	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.37	1.221	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.37	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.37	0.722	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.37	1.110	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.37	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.37	0.582	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.37	0.847	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.37	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.55	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.37	1.003	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.37	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.37	0.586	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.37	1.007	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.22	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.37	0.765	ok	0.767	0.707-0.827
Freon 114	3.73	7.37	0.506	ok	0.507	0.447-0.567
Freon 115	3.37	7.37	0.457	ok	0.458	0.398-0.518
Freon 123	4.60	7.37	0.624	ok	0.625	0.565-0.685
Freon 123A	4.64	7.37	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.37	0.495	ok	0.496	0.436-0.556
Freon 152A	3.44	7.37	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.37	1.001	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.37	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.55	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.37	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.37	1.005	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.37	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.37	0.921	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.37	0.878	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.37	0.688	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.50	7.37	0.475	ok	0.476	0.416-0.536
Styrene	14.58	13.55	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.37	1.141	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.55	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.55	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.37	0.729	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.37	1.064	ok	1.072	1.012-1.132
Toluene	11.73	9.22	1.272	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.37	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.37	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.37	0.891	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.36	7.03-7.69	467614	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1973593	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1346242	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.96	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.92	4.45	1.106	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.73	4.45	1.737	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.07	4.45	1.364	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.96	1.346	ok	1.345	1.285-1.405
Octane	8.98	4.45	2.018	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.96	1.213	ok	1.211	1.151-1.271

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.96	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.78	4.45	1.524	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.33	9.96	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114117	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	582166	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	538138	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.96	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.96	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.96	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.17	9.96	1.623	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.39	9.96	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.12	9.96	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.96	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.28	9.96	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.96	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.96	1.701	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.96	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.83	9.96	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.82	3.19	0.884	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.96	1.140	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	113084	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	573427	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	530262	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.96	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.59	9.96	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.96	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.96	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.34	4.45	0.975	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.09	4.45	1.144	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.96	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.72	4.45	1.735	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.96	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.96	1.345	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.06	9.96	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.49	3.19	1.094	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.34	9.96	1.139	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.96	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114690	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	581918	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	540272	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.97	1.368	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.97	1.118	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.06	4.45	1.137	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.94	3.19	0.608	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.56	9.97	1.260	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.97	1.698	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.48	3.19	1.091	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.27	9.97	1.231	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114041	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	577981	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	540711	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.97	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.18	4.45	1.613	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.36	9.97	1.842	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.97	1.837	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110309	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	561645	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511167	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.97	1.654	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110672	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	555876	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511162	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.37	3.19	0.743	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.30	9.97	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.97	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109480	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	545187	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	503767	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109851	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	546669	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	501897	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.68	9.97	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	105717	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531881	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	494368	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.51	9.97	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.06	9.97	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.27	3.19	1.025	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.02	4.45	1.802	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.67	3.19	1.150	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.95	4.45	1.337	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.81	9.97	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.42	9.97	1.346	ok	1.345	1.285-1.405
Octane	9.01	4.45	2.025	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.32	9.97	1.236	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.95	9.97	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.86	4.45	1.991	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.37	9.97	1.140	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	106909	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531012	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	486982	ok	515873	309524-722222

Surrogate Recovery Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JE23791-1	5W60029.D	113
JE23791-1	5W60011.D	108
JE23791-2	5W60030.D	111
JE23791-2	5W60039.D	109
JE23791-2	5W60012.D	109
JE23791-3	5W60013.D	113
JE23791-4	5W60042.D	108
JE23791-4	5W60014.D	109
JE23789-3DUP	5W60008.D	109
JE23836-1DUP	5W60041.D	106
V5W2301-BS	5W60002.D	99
V5W2301-BSD	5W60003.D	99
V5W2301-MB	5W60005.D	106
V5W2302-BS	5W60034.D	99
V5W2302-BSD	5W60035.D	99
V5W2302-MB	5W60038.D	107
V7W613-SCC	7W17483.D	94
V7W624-SCC	7W17827.D	95
V7W613-BS	7W17474.D	98
V7W613-BSD	7W17475.D	99
V7W613-MB	7W17477.D	94
V7W624-BS	7W17802.D	101
V7W624-BSD	7W17803.D	100
V7W624-MB	7W17805.D	95

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICC2292
Lab FileID: 5W59783.D

Response Factor Report GCMS5W

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Calibration Files
0.04=5w59769.D 0.1 =5w59770.D 0.2 =5w59771.D 0.5 =5w59777.D
5 =5w59782.D 10 =5w59783.D 20 =5w59784.D 40 =5w59785.D
50 =5w59786.D 60 =5w59787.D = =

Compound	0.04	0.1	0.2	0.5	5	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	0.904	0.623	0.441	0.867	0.844	0.649	0.468				0.685	27.83
3) FREON 152A	1.190	0.843	0.777	0.639	0.629	0.634	0.654	0.669	0.679	0.703	0.742	23.17
4) CHLORODIFLUOROMETHANE	0.261	0.310	0.322	0.317	0.319	0.318	0.321	0.312	0.309	0.313	0.310	5.70
5) CHLOROTRIFLUOROETHENE	1.547	1.519	1.498	1.506	1.563	1.584	1.608	1.574	1.553	1.582	1.553	2.33
6) DICHLORODIFLUOROMETHANE	2.985	2.960	2.993	2.976	2.973	2.974	2.928	2.665	2.607	2.557	2.862	6.17
7) PROPYLENE	1.163	0.858	0.858	0.767	0.686	0.687	0.692	0.670	0.647	0.647	0.768	20.84
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.780	2.706	2.572	2.594	2.313	2.270	2.220	1.987	1.876	1.858	2.318	14.62
9) FREON 114	2.937	2.861	2.921	2.907	2.796	2.727	2.639	2.259	2.075	2.040	2.616	13.59
10) CHLOROMETHANE	0.431	0.378	0.356	0.335	0.302	0.297	0.293	0.263	0.244	0.242	0.314	19.44
11) VINYL CHLORIDE	1.049	1.003	1.074	1.031	1.012	1.001	0.979	0.875	0.834	0.829	0.969	9.24
12) 1,3-BUTADIENE	0.749	0.651	0.660	0.616	0.592	0.574	0.542	0.498	0.476	0.474	0.583	15.30
13) n-BUTANE	1.389	1.067	1.063	1.022	0.942	0.918	0.873	0.782	0.739	0.736	0.953	20.68
14) BROMOMETHANE	1.246	1.098	1.104	1.032	1.048	1.039	1.003	0.930	0.898	0.905	1.030	10.28
15) CHLOROETHANE	0.741	0.573	0.510	0.453	0.430	0.429	0.383	0.375	0.359		0.473	25.66
16) DICHLOROFLUOROMETHANE	2.476	2.142	2.254	2.245	2.119	2.098	2.008	1.802	1.755	1.690	2.059	12.07
17) ACETONITRILE	0.672	0.547	0.640	0.621	0.555	0.546	0.514	0.465	0.444	0.440	0.544	14.95
18) ACROLEIN	0.368	0.324	0.348	0.304	0.344	0.324	0.299	0.268	0.257	0.259	0.309	12.60
19) FREON 123	3.217	2.695	2.600	2.612	2.453	2.381	2.248	1.947	1.846	1.818	2.382	18.31
20) FREON 123A	1.580	1.536	1.456	1.509	1.438	1.391	1.317	1.182	1.137	1.133	1.368	12.24
21) TRICHLOROFLUOROMETHANE	2.581	2.586	2.629	2.688	2.603	2.488	2.433	2.204	2.126	2.106	2.445	8.97
22) ISOPROPYL ALCOHOL	2.614	2.508	2.222	2.040	1.950	1.865	1.714	1.590	1.499	1.605	1.961	19.74
23) ACETONE												

0.630 0.436 0.382 0.383 0.361 0.324 0.307 0.315 0.392 26.83

24) PENTANE
1.642 1.236 1.065 0.988 0.887 0.890 0.897 0.874 0.848 0.861 1.019 24.53

25) IODOMETHANE
3.028 3.099 3.178 3.075 3.112 3.051 3.062 2.974 2.936 2.953 3.047 2.50

26) 1,1-DICHLOROETHYLENE
1.447 1.169 1.069 1.090 1.017 0.995 0.996 0.975 0.978 0.990 1.073 13.53

27) CARBON DISULFIDE
2.997 3.014 2.977 2.890 2.819 2.764 2.735 2.653 2.618 2.638 2.810 5.44

28) ETHANOL
0.410 0.368 0.360 0.325 0.282 0.280 0.274 0.329 16.02

29) BROMOETHENE
1.144 1.045 1.084 1.077 1.054 1.046 1.003 0.925 0.895 0.887 1.016 8.53

30) ACRYLONITRILE
0.731 0.728 0.766 0.659 0.613 0.615 0.631 0.630 0.623 0.643 0.664 8.45

31) METHYLENE CHLORIDE
1.452 1.200 1.182 0.923 0.907 0.882 0.885 0.862 0.863 0.878 1.003 20.24

32) 3-CHLOROPROPENE
0.592 0.509 0.507 0.503 0.454 0.454 0.455 0.447 0.449 0.461 0.483 9.46

33) FREON 113
1.817 1.755 1.790 1.795 1.801 1.780 1.806 1.784 1.751 1.767 1.785 1.22

34) TRANS-1,2-DICHLOROETHYLENE
1.406 1.205 1.180 1.132 1.061 1.031 1.048 1.050 1.047 1.085 1.125 10.31

35) TERTIARY BUTYL ALCOHOL
2.011 1.926 2.111 2.081 2.179 2.134 2.097 1.869 1.847 1.796 2.005 6.76

36) METHYL TERTIARY BUTYL ETHER
3.856 3.026 2.904 2.828 2.710 2.672 2.659 2.576 2.512 2.562 2.830 13.94

37) TETRAHYDROFURAN
0.289 0.323 0.368 0.410 0.414 0.422 0.416 0.417 0.434 0.388 13.03

38) HEXANE
1.915 1.826 1.847 1.513 1.521 1.530 1.570 1.453 1.436 1.353 1.597 12.17

39) VINYL ACETATE
0.067 0.100 0.168 0.173 0.192 0.191 0.196 0.204 0.161 31.11

40) 1,1-DICHLOROETHANE
2.633 2.495 2.189 2.043 1.949 1.897 1.894 1.857 1.819 1.859 2.063 13.90

41) METHYL ETHYL KETONE
0.183 0.275 0.353 0.436 0.436 0.443 0.444 0.443 0.463 0.386 25.10

42) cis-1,2-DICHLOROETHYLENE
1.936 1.350 1.202 1.161 1.089 1.079 1.109 1.087 1.109 1.135 1.226 21.40

43) DIISOPROPYL ETHER
0.264 0.354 0.387 0.430 0.466 0.474 0.486 0.457 0.450 0.431 0.420 16.24

44) ETHYL ACETATE
0.083 0.229 0.295 0.349 0.343 0.350 0.339 0.335 0.333 0.295 29.95

45) METHYL ACRYLATE
0.432 1.287 1.422 1.650 1.890 1.915 1.940 1.815 1.761 1.699 1.581 28.86

46) CHLOROFORM
2.352 2.269 2.286 2.272 2.286 2.248 2.196 2.129 2.087 2.110 2.223 3.98

47) 2,4-DIMETHYLPENTANE
2.053 1.842 1.846 1.806 1.778 1.772 1.798 1.731 1.733 1.710 1.807 5.41

48) 1,1,1-TRICHLOROETHANE
2.325 2.281 2.406 2.366 2.372 2.352 2.356 2.258 2.249 2.226 2.319 2.65

49) CARBON TETRACHLORIDE
2.444 2.411 2.530 2.547 2.639 2.617 2.629 2.495 2.438 2.439 2.519 3.44

50) 1,2-DICHLOROETHANE
1.533 1.473 1.599 1.594 1.593 1.588 1.592 1.515 1.471 1.491 1.545 3.50

51) I 1,4-DIFLUOROBENZENE ----------ISTD----------

52) BENZENE
0.696 0.655 0.643 0.656 0.654 0.658 0.683 0.675 0.693 0.687 0.670 2.84

53) CYCLOHEXANE

```
          0.273 0.253 0.260 0.267 0.265 0.261 0.271 0.269 0.280 0.278  0.268    3.20
54)  2,3-DIMETHYLPENTANE
          0.129 0.129 0.130 0.128 0.130 0.135 0.137 0.144 0.146 0.145  0.135    5.39
55)  TRICHLOROETHYLENE
          0.328 0.325 0.320 0.336 0.341 0.346 0.363 0.354 0.359 0.342  0.341    4.26
56)  1,2-DICHLOROPROPANE
          0.438 0.404 0.281 0.300 0.278 0.277 0.289 0.285 0.283 0.275  0.311   18.96
57)  DIBROMOMETHANE
          0.424 0.377 0.366 0.351 0.361 0.367 0.389 0.393 0.396 0.391  0.381    5.63
58)  ETHYL ACRYLATE
                      0.253 0.395 0.528 0.532 0.558 0.543 0.544 0.537  0.486   22.14
59)  BROMODICHLOROMETHANE
          0.553 0.553 0.574 0.575 0.604 0.609 0.628 0.607 0.618 0.597  0.592    4.47
60)  2,2,4-TRIMETHYLPENTANE
          1.172 1.070 1.076 1.110 1.083 1.092 1.093 1.008 0.985 0.912  1.060    6.91
61)  1,4-DIOXANE
          0.119 0.163 0.166 0.153 0.156 0.158 0.161 0.149 0.155 0.148  0.153    8.55
62)  HEPTANE
          0.486 0.429 0.412 0.394 0.359 0.364 0.366 0.350 0.352 0.343  0.385   11.77
63)  METHYL METHACRYLATE
                0.165 0.191 0.210 0.220 0.230 0.237 0.235 0.237 0.240  0.218   11.74
64)  METHYL ISOBUTYL KETONE
                0.094 0.143 0.177 0.216 0.220 0.232 0.229 0.234 0.233  0.198   25.14
65)  cis-1,3-DICHLOROPROPENE
          0.549 0.472 0.454 0.444 0.448 0.457 0.480 0.484 0.488 0.488  0.477    6.41
66)  TOLUENE
          0.453 0.460 0.472 0.473 0.501 0.504 0.534 0.536 0.536 0.539  0.501    6.86
67)  1,3-DICHLOROPROPANE
          0.388 0.399 0.412 0.403 0.408 0.405 0.424 0.412 0.418 0.413  0.408    2.50
68)  trans-1,3-DICHLOROPROPENE
          0.532 0.455 0.440 0.408 0.413 0.432 0.450 0.446 0.464 0.458  0.450    7.61
69)  1,1,2-TRICHLOROETHANE
          0.222 0.260 0.256 0.259 0.273 0.275 0.289 0.291 0.298 0.295  0.272    8.64

70) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
71)  2-HEXANONE
                    0.408 0.431 0.614 0.614 0.604 0.521 0.508 0.486  0.523   15.56
72)  ETHYL METHACRYLATE
                0.516 0.665 0.708 0.800 0.801 0.777 0.665 0.658 0.627  0.691   13.43
73)  TETRACHLOROETHYLENE
          0.676 0.720 0.732 0.733 0.739 0.718 0.701 0.620 0.602 0.581  0.682    8.74
74)  DIBROMOCHLOROMETHANE
          1.151 1.237 1.210 1.236 1.308 1.287 1.240 1.073 1.045 0.990  1.178    9.18
75)  1,2-DIBROMOETHANE
          0.796 0.917 0.967 0.994 1.020 0.988 0.966 0.866 0.842 0.809  0.916    8.99
76)  OCTANE
          1.367 1.023 1.031 0.997 0.998 0.951 0.922 0.779 0.739 0.693  0.950   20.17
77)  1,1,1,2-TETRACHLOROETHANE
          0.759 0.752 0.771 0.778 0.809 0.810 0.790 0.715 0.681 0.635  0.750    7.58
78)  CHLOROBENZENE
          1.396 1.346 1.325 1.345 1.310 1.304 1.267 1.132 1.076 0.996  1.250   10.70
79)  ETHYLBENZENE
          2.081 2.086 2.090 2.062 2.054 2.026 1.959 1.699 1.615 1.496  1.917   11.72
80)  m,p-XYLENE
          0.737 0.778 0.808 0.808 0.831 0.813 0.805 0.692 0.665 0.617  0.755    9.80
81)  o-XYLENE
          0.690 0.721 0.758 0.763 0.789 0.776 0.769 0.649 0.607 0.548  0.707   11.55
82)  STYRENE
          0.842 1.090 1.135 1.188 1.219 1.241 1.200 1.083 1.051 0.991  1.104   11.06
83)  NONANE
```

Initial Calibration Summary

Job Number: JE23791 **Sample:** V5W2292-ICC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59783.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
           1.263 1.143 1.098 1.070 1.015 0.984 0.936 0.758 0.711 0.630  0.961   21.20
 84)  BROMOFORM
           0.975 1.099 1.138 1.163 1.350 1.334 1.294 1.136 1.095 1.036  1.162   10.84
 85)  4-BROMOFLUOROBENZENE
           1.330 1.340 1.366 1.347 1.327 1.287 1.218 1.121 1.095 1.064  1.249    9.27
 86)  1,1,2,2-TETRACHLOROETHANE
           1.295 1.327 1.329 1.369 1.391 1.354 1.306 1.073 0.984 0.872  1.230   14.92
 87)  1,2,3-TRICHLOROPROPANE
           1.343 1.154 1.094 1.066 1.002 0.961 0.918 0.802 0.795 0.755  0.989   18.56
 88)  ISOPROPYLBENZENE
           2.240 2.330 2.361 2.367 2.405 2.373 2.298 1.911 1.764 1.610  2.166   13.45
 89)  BROMOBENZENE
           1.244 1.237 1.285 1.170 1.203 1.169 1.138 0.981 0.955 0.885  1.127   12.18
 90)  2-CHLOROTOLUENE
           0.536 0.627 0.631 0.629 0.644 0.645 0.636 0.568 0.559 0.524  0.600    7.92
 91)  n-PROPYLBENZENE
           0.507 0.562 0.604 0.628 0.636 0.654 0.635 0.554 0.528 0.499  0.581    9.98
 92)  4-ETHYLTOLUENE
           1.639 1.966 2.121 2.208 2.358 2.292 2.208 1.826 1.672 1.521  1.981   15.14
 93)  1,3,5-TRIMETHYLBENZENE
           2.134 2.114 2.126 2.019 2.006 1.939 1.861 1.528 1.413 1.278  1.842   17.25
 94)  ALPHA-METHYLSTYRENE
           0.664 0.815 0.913 0.949 1.039 1.056 1.037 0.912 0.886 0.802  0.907   13.61
 95)  tert-BUTYLBENZENE
                 0.385 0.387 0.399 0.430 0.437 0.419 0.333 0.301 0.273  0.374   15.59
 96)  1,2,4-TRIMETHYLBENZENE
           1.774 1.808 1.921 1.943 2.043 2.024 1.886 1.411 1.261 1.116  1.719   19.36
 97)  m-DICHLOROBENZENE
           1.071 1.275 1.361 1.467 1.581 1.575 1.484 1.226 1.105 0.994  1.314   16.21
 98)  BENZYL CHLORIDE
           1.079 1.369 1.537 1.720 2.062 2.046 1.914 1.531 1.366 1.212  1.584   21.69
 99)  p-DICHLOROBENZENE
           1.495 1.539 1.589 1.568 1.519 1.496 1.454 1.250 1.145 1.072  1.413   13.19
100)  sec-BUTYLBENZENE
           0.443 0.490 0.508 0.501 0.536 0.521 0.509 0.438 0.405 0.385  0.474   10.99
101)  1,2,3-TRIMETHYLBENZENE
           1.891 2.048 2.044 2.086 2.132 2.084 1.952 1.469 1.317 1.153  1.818   19.95
102)  p-ISOPROPYLTOLUENE
           0.478 0.540 0.594 0.609 0.642 0.635 0.609 0.471 0.423 0.368  0.537   17.98
103)  o-DICHLOROBENZENE
           1.222 1.365 1.402 1.444 1.466 1.430 1.407 1.207 1.165 1.072  1.318   10.51
104)  n-BUTYLBENZENE
           0.393 0.469 0.535 0.547 0.617 0.598 0.602 0.528 0.503 0.466  0.526   13.41
105)  HEXACHLOROETHANE
           0.945 0.925 0.962 0.982 1.025 1.011 0.994 0.812 0.739 0.669  0.906   13.59
106)  HEXACHLOROBUTADIENE
           1.290 1.305 1.341 1.386 1.445 1.419 1.355 1.012 0.902 0.796  1.225   18.99
107)  1,2,4-TRICHLOROBENZENE
           1.125 1.174 1.216 1.297 1.397 1.381 1.375 1.174 1.089 0.985  1.221   11.36
108)  NAPHTHALENE
           2.542 2.726 2.760 2.887 3.309 3.228 3.019 2.334 2.035 1.777  2.662   18.70

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
           6.493 5.469 7.159 6.304 5.822 5.911 6.041 5.816 5.676 5.781  6.047    8.12
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M5w2292.M         Mon Nov 10 09:45:04 2025
```

Initial Calibration Verification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w59790.D Vial: 5
Acq On : 7 Nov 2025 12:25 pm Operator: benk
Sample : icv2292-10 Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	109	0.00	7.35
2	FREON 115	0.685	0.779	-13.7	130	0.00	3.37
3	FREON 152A	0.742	0.643	13.3	110	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	109	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.530	1.5	105	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	2.988	-4.4	109	0.00	3.55
7	PROPYLENE	0.768	0.702	8.6	111	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.153	7.1	103	0.00	3.65
9	FREON 114	2.616	2.753	-5.2	110	0.00	3.73
10	CHLOROMETHANE	0.314	0.302	3.8	110	0.00	3.67
11	VINYL CHLORIDE	0.969	0.972	-0.3	105	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	106	0.00	3.91
13	n-BUTANE	0.953	0.914	4.1	108	0.00	3.95
14	BROMOMETHANE	1.030	1.045	-1.5	109	0.00	4.11
15	CHLOROETHANE	0.473	0.420	11.2	106	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.125	-3.2	110	0.00	4.29
17	ACETONITRILE	0.544	0.544	0.0	108	0.00	4.48
18	ACROLEIN	0.309	0.333	-7.8	112	0.00	4.57
19	FREON 123	2.382	2.220	6.8	101	0.00	4.59
20	FREON 123A	1.368	1.202	12.1	94	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.504	-2.4	109	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.814	7.5	106	0.00	4.87
23	ACETONE	0.392	0.355	9.4	101	0.00	4.67
24	PENTANE	1.019	0.893	12.4	109	0.00	5.07
25	IODOMETHANE	3.047	3.023	0.8	108	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	0.965	10.1	105	0.00	5.32
27	CARBON DISULFIDE	2.810	2.525	10.1	99	0.00	5.67
28	ETHANOL	0.329	0.346	-5.2	104	0.00	4.31
29	BROMOETHENE	1.016	0.992	2.4	103	0.00	4.48
30	ACRYLONITRILE	0.664	0.612	7.8	108	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.881	12.2	108	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.449	7.0	108	0.00	5.52
33	FREON 113	1.785	1.773	0.7	108	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.001	11.0	105	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	2.333	-16.4	119	0.00	5.37
36	METHYL TERTIARY BUTYL ETH	2.830	2.647	6.5	108	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.451	-16.2	118	0.00	7.86
38	HEXANE	1.597	1.514	5.2	107	0.00	7.38
39	VINYL ACETATE	0.161	0.179	-11.2	112	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.900	7.9	109	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.431	-11.7	107	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.081	11.8	109	0.00	7.20

Initial Calibration Verification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

43		DIISOPROPYL ETHER	0.420	0.475	-13.1	109	0.00	7.39
44		ETHYL ACETATE	0.295	0.316	-7.1	100	0.00	7.42
45		METHYL ACRYLATE	1.581	1.896	-19.9	108	0.00	7.40
46		CHLOROFORM	2.223	2.242	-0.9	108	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.797	0.6	110	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.340	-0.9	108	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.531	-0.5	105	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.580	-2.3	108	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	107	0.00	9.21
52		BENZENE	0.670	0.673	-0.4	110	0.00	8.85
53		CYCLOHEXANE	0.268	0.265	1.1	109	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.135	0.0	107	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.344	-0.9	107	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.279	10.3	108	0.00	9.65
57		DIBROMOMETHANE	0.381	0.364	4.5	106	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.544	-11.9	110	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.612	-3.4	108	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.094	-3.2	107	0.00	9.91
61		1,4-DIOXANE	0.153	0.172	-12.4	117	0.00	9.90
62		HEPTANE	0.385	0.362	6.0	106	0.00	10.19
63		METHYL METHACRYLATE	0.218	0.234	-7.3	109	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.228	-15.2	111	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.428	10.3	100	0.00	10.75
66		TOLUENE	0.501	0.522	-4.2	111	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.415	-1.7	110	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.426	5.3	106	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.279	-2.6	109	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	0.00	13.54
71		2-HEXANONE	0.523	0.623	-19.1	109	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.789	-14.2	106	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.719	-5.4	107	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.278	-8.5	106	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	0.991	-8.2	108	0.00	12.40
76		OCTANE	0.950	0.982	-3.4	111	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.807	-7.6	107	0.00	13.56
78		CHLOROBENZENE	1.250	1.307	-4.6	108	0.00	13.58
79		ETHYLBENZENE	1.917	2.022	-5.5	107	0.00	13.99
80		m,p-XYLENE	0.755	0.820	-8.6	108	0.00	14.18
81		o-XYLENE	0.707	0.798	-12.9	110	0.00	14.68
82		STYRENE	1.104	1.193	-8.1	103	0.00	14.57
83		NONANE	0.961	0.979	-1.9	107	0.00	14.93
84		BROMOFORM	1.162	1.338	-15.1	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.271	-1.8	106	0.00	15.16
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.370	-11.4	109	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.972	1.7	108	0.00	14.82
88		ISOPROPYLBENZENE	2.166	2.352	-8.6	106	0.00	15.29
89		BROMOBENZENE	1.127	1.177	-4.4	108	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.648	-8.0	108	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.653	-12.4	107	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.350	-18.6	110	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.949	-5.8	108	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	0.970	-6.9	98	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.445	-19.0	109	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.034	-18.3	108	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.579	-20.2	108	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.924	-21.5	101	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.485	-5.1	106	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.527	-11.2	108	0.00	16.70

Initial Calibration Verification

Job Number: JE23791 **Sample:** V5W2292-ICV2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59790.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.100	-15.5	108	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.630	-17.3	106	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.447	-9.8	109	0.00	16.98
104		n-BUTYLBENZENE	0.526	0.598	-13.7	107	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.898	0.9	95	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.374	-12.2	104	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.350	-10.6	105	0.00	18.89
108		NAPHTHALENE	2.662	3.063	-15.1	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	108	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.852	3.2	107	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Mon Nov 10 09:44:44 2025

6.9.2

6

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60001.D Vial: 2
Acq On : 24 Nov 2025 9:49 am Operator: benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	103	0.00	7.35
2	FREON 115	0.685	0.650	5.1	103	0.00	3.37
3	FREON 152A	0.742	0.612	17.5	99	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	103	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.657	-6.7	107	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	3.030	-5.9	104	0.00	3.55
7	PROPYLENE	0.768	0.623	18.9	93	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.297	0.9	104	0.00	3.65
9	FREON 114	2.616	2.883	-10.2	108	0.00	3.73
10	CHLOROMETHANE	0.314	0.281	10.5	97	0.00	3.67
11	VINYL CHLORIDE	0.969	0.994	-2.6	102	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	100	0.00	3.91
13	n-BUTANE	0.953	0.869	8.8	97	0.00	3.95
14	BROMOMETHANE	1.030	1.106	-7.4	109	0.00	4.11
15	CHLOROETHANE	0.473	0.431	8.9	103	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.152	-4.5	105	0.00	4.29
17	ACETONITRILE	0.544	0.522	4.0	98	0.00	4.48
18	ACROLEIN	0.309	0.307	0.6	97	0.00	4.57
19	FREON 123	2.382	2.544	-6.8	110	0.00	4.59
20	FREON 123A	1.368	1.505	-10.0	111	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.691	-10.1	111	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.675	14.6	92	0.00	4.87
23	ACETONE	0.392	0.386	1.5	103	0.00	4.67
24	PENTANE	1.019	0.807	20.8	93	0.00	5.07
25	IODOMETHANE	3.047	3.258	-6.9	110	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	1.032	3.8	106	0.00	5.32
27	CARBON DISULFIDE	2.810	2.762	1.7	102	0.00	5.67
28	ETHANOL	0.329	0.359	-9.1	102	0.00	4.32
29	BROMOETHENE	1.016	1.138	-12.0	112	0.00	4.48
30	ACRYLONITRILE	0.664	0.575	13.4	96	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.914	8.9	106	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.437	9.5	99	0.00	5.52
33	FREON 113	1.785	1.909	-6.9	110	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.066	5.2	106	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	1.976	1.4	95	0.00	5.38
36	METHYL TERTIARY BUTYL ETH	2.830	2.633	7.0	101	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.407	-4.9	101	0.00	7.86
38	HEXANE	1.597	1.427	10.6	96	0.00	7.38
39	VINYL ACETATE	0.161	0.169	-5.0	100	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.832	11.2	99	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.416	-7.8	98	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.103	10.0	105	0.00	7.19

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43		DIISOPROPYL ETHER	0.420	0.446	-6.2	97	0.00	7.38
44		ETHYL ACETATE	0.295	0.326	-10.5	98	0.00	7.42
45		METHYL ACRYLATE	1.581	1.788	-13.1	96	0.00	7.40
46		CHLOROFORM	2.223	2.301	-3.5	105	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.640	9.2	95	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.386	-2.9	104	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.656	-5.4	104	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.513	2.1	98	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00	9.21
52		BENZENE	0.670	0.663	1.0	102	0.00	8.85
53		CYCLOHEXANE	0.268	0.260	3.0	101	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.132	2.2	99	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.368	-7.9	108	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.268	13.8	98	0.00	9.65
57		DIBROMOMETHANE	0.381	0.400	-5.0	111	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.502	-3.3	96	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.625	-5.6	104	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.033	2.5	96	0.00	9.91
61		1,4-DIOXANE	0.153	0.162	-5.9	104	0.00	9.90
62		HEPTANE	0.385	0.323	16.1	90	0.00	10.18
63		METHYL METHACRYLATE	0.218	0.225	-3.2	99	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.209	-5.6	96	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.456	4.4	101	0.00	10.75
66		TOLUENE	0.501	0.512	-2.2	103	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.409	-0.2	103	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.432	4.0	101	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.285	-4.8	105	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00	13.53
71		2-HEXANONE	0.523	0.580	-10.9	95	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.782	-13.2	99	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.805	-18.0	113	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.365	-15.9	107	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	1.051	-14.7	107	0.00	12.39
76		OCTANE	0.950	0.880	7.4	93	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.847	-12.9	105	0.00	13.56
78		CHLOROBENZENE	1.250	1.365	-9.2	106	0.00	13.58
79		ETHYLBENZENE	1.917	2.077	-8.3	103	0.00	13.98
80		m,p-XYLENE	0.755	0.819	-8.5	102	0.00	14.18
81		o-XYLENE	0.707	0.793	-12.2	103	0.00	14.68
82		STYRENE	1.104	1.238	-12.1	101	0.00	14.57
83		NONANE	0.961	0.916	4.7	94	0.00	14.93
84		BROMOFORM	1.162	1.434	-23.4	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.269	-1.6	99	0.00	15.15
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.384	-12.5	103	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.971	1.8	102	0.00	14.81
88		ISOPROPYLBENZENE	2.166	2.356	-8.8	100	0.00	15.29
89		BROMOBENZENE	1.127	1.169	-3.7	101	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.664	-10.7	104	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.659	-13.4	102	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.339	-18.1	103	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.987	-7.9	103	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	1.038	-14.4	99	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.450	-20.3	104	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.087	-21.4	104	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.625	-23.7	104	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.930	-21.8	95	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.541	-9.1	104	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.516	-8.9	100	0.00	16.70

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.150	-18.3	104	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.657	-22.3	104	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.459	-10.7	103	0.00	16.97
104		n-BUTYLBENZENE	0.526	0.603	-14.6	102	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.831	8.3	83	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.512	-23.4	108	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.482	-21.4	108	0.00	18.88
108		NAPHTHALENE	2.662	3.274	-23.0	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	102	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.436	10.1	94	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Tue Nov 25 23:10:44 2025

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V5W2302-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60033.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...025\V5W2302\5w60033.D Vial: 4
Acq On : 25 Nov 2025 11:25 am Operator: benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	105	0.00	7.35
2	FREON 115	0.685	0.666	2.8	107	0.00	3.37
3	FREON 152A	0.742	0.688	7.3	114	0.00	3.45
4	CHLORODIFLUOROMETHANE	0.310	0.340	-9.7	112	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.733	-11.6	115	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	3.248	-13.5	114	0.00	3.56
7	PROPYLENE	0.768	0.682	11.2	104	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.380	-2.7	110	0.00	3.65
9	FREON 114	2.616	2.856	-9.2	110	0.00	3.74
10	CHLOROMETHANE	0.314	0.285	9.2	100	0.00	3.67
11	VINYL CHLORIDE	0.969	1.017	-5.0	106	0.00	3.82
12	1,3-BUTADIENE	0.583	0.568	2.6	104	0.00	3.92
13	n-BUTANE	0.953	0.934	2.0	107	0.00	3.95
14	BROMOMETHANE	1.030	1.141	-10.8	115	0.00	4.11
15	CHLOROETHANE	0.473	0.460	2.7	112	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.285	-11.0	114	0.00	4.30
17	ACETONITRILE	0.544	0.532	2.2	102	0.00	4.49
18	ACROLEIN	0.309	0.336	-8.7	109	0.00	4.58
19	FREON 123	2.382	2.667	-12.0	117	0.00	4.60
20	FREON 123A	1.368	1.512	-10.5	114	0.00	4.64
21	TRICHLOROFLUOROMETHANE	2.445	2.842	-16.2	120	0.00	4.80
22	ISOPROPYL ALCOHOL	1.961	1.808	7.8	101	0.00	4.88
23	ACETONE	0.392	0.424	-8.2	116	0.00	4.67
24	PENTANE	1.019	0.884	13.2	104	0.00	5.08
25	IODOMETHANE	3.047	3.264	-7.1	112	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	1.061	1.1	112	0.00	5.32
27	CARBON DISULFIDE	2.810	2.975	-5.9	113	0.00	5.68
28	ETHANOL	0.329	0.380	-15.5	110	0.00	4.32
29	BROMOETHENE	1.016	1.138	-12.0	114	0.00	4.49
30	ACRYLONITRILE	0.664	0.625	5.9	106	0.00	5.05
31	METHYLENE CHLORIDE	1.003	0.967	3.6	115	0.00	5.43
32	3-CHLOROPROPENE	0.483	0.469	2.9	108	0.00	5.53
33	FREON 113	1.785	1.883	-5.5	111	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.104	1.9	112	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	2.081	-3.8	102	0.00	5.38
36	METHYL TERTIARY BUTYL ETH	2.830	2.702	4.5	106	0.00	6.48
37	TETRAHYDROFURAN	0.388	0.431	-11.1	109	0.00	7.86
38	HEXANE	1.597	1.528	4.3	104	0.00	7.38
39	VINYL ACETATE	0.161	0.180	-11.8	109	0.00	6.57
40	1,1-DICHLOROETHANE	2.063	1.970	4.5	109	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.452	-17.1	108	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.151	6.1	112	0.00	7.20

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V5W2302-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60033.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43		DIISOPROPYL ETHER	0.420	0.480	-14.3	106	0.00	7.39
44		ETHYL ACETATE	0.295	0.349	-18.3	106	0.00	7.42
45		METHYL ACRYLATE	1.581	1.903	-20.4	104	0.00	7.40
46		CHLOROFORM	2.223	2.354	-5.9	110	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.727	4.4	102	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.365	-2.0	105	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.590	-2.8	104	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.526	1.2	101	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	105	0.00	9.21
52		BENZENE	0.670	0.685	-2.2	110	0.00	8.85
53		CYCLOHEXANE	0.268	0.272	-1.5	110	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.136	-0.7	106	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.368	-7.9	112	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.287	7.7	109	0.00	9.65
57		DIBROMOMETHANE	0.381	0.381	0.0	109	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.522	-7.4	103	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.635	-7.3	110	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.090	-2.8	105	0.00	9.91
61		1,4-DIOXANE	0.153	0.165	-7.8	110	0.00	9.90
62		HEPTANE	0.385	0.332	13.8	96	0.00	10.18
63		METHYL METHACRYLATE	0.218	0.229	-5.0	105	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.219	-10.6	104	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.461	3.4	106	0.00	10.75
66		TOLUENE	0.501	0.519	-3.6	108	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.422	-3.4	110	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.431	4.2	105	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.290	-6.6	111	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	103	0.00	13.53
71		2-HEXANONE	0.523	0.606	-15.9	102	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.808	-16.9	104	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.773	-13.3	111	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.325	-12.5	106	0.00	12.14
75		1,2-DIBROMOETHANE	0.916	1.041	-13.6	109	0.00	12.39
76		OCTANE	0.950	0.904	4.8	98	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.835	-11.3	106	0.00	13.56
78		CHLOROBENZENE	1.250	1.364	-9.1	108	0.00	13.58
79		ETHYLBENZENE	1.917	2.110	-10.1	107	0.00	13.98
80		m,p-XYLENE	0.755	0.818	-8.3	104	0.00	14.18
81		o-XYLENE	0.707	0.807	-14.1	107	0.00	14.68
82		STYRENE	1.104	1.239	-12.2	103	0.00	14.57
83		NONANE	0.961	0.951	1.0	100	0.00	14.93
84		BROMOFORM	1.162	1.395	-20.1	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.239	0.8	99	0.00	15.15
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.451	-18.0	111	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	1.005	-1.6	108	0.00	14.81
88		ISOPROPYLBENZENE	2.166	2.393	-10.5	104	0.00	15.29
89		BROMOBENZENE	1.127	1.196	-6.1	106	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.654	-9.0	105	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.666	-14.6	105	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.348	-18.5	106	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.954	-6.1	104	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	1.042	-14.9	102	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.428	-14.4	101	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.048	-19.1	104	0.00	16.43
97		m-DICHLOROBENZENE	1.314	1.612	-22.7	106	0.00	16.57
98		BENZYL CHLORIDE	1.584	2.049	-29.4	103	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.566	-10.8	108	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.540	-13.9	107	0.00	16.70

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V5W2302-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60033.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.143	-17.9	106	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.641	-19.4	104	0.00	16.86
103		o-DICHLOROBENZENE	1.318	1.477	-12.1	107	0.00	16.97
104		n-BUTYLBENZENE	0.526	0.611	-16.2	105	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.972	-7.3	99	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.463	-19.4	106	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.458	-19.4	109	0.00	18.88
108		NAPHTHALENE	2.662	3.300	-24.0	106	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	104	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.907	2.3	104	0.00	5.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Thu Nov 27 00:39:19 2025

6.9.4

6

Initial Calibration Summary

Job Number: JE23791 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Response Factor Report MS7W

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Calibration Files
0.04=7w16576.D 0.10=7w16577.D 0.20=7w16583.D 0.5 =7w16584.D
5.0 =7w16589.D 10 =7w16590.D 20 =7w16591.D 40 =7w16592.D
50 =7w16593.D 60 =7w16594.D = =

Compound	0.04	0.10	0.20	0.5	5.0	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	1.203	1.393	1.114	1.143	1.254	1.290	1.096				1.213	8.81
3) FREON 152A	0.745	0.766	0.515	0.617	0.600	0.616	0.583	0.573	0.625	0.619	0.626	12.09
4) CHLORODIFLUOROMETHANE	0.262	0.310	0.227	0.298	0.278	0.280	0.263	0.256	0.274	0.268	0.272	8.44
5) CHLOROTRIFLUOROETHENE	1.236	1.313	1.228	1.323	1.328	1.374	1.287	1.267	1.368	1.350	1.307	3.96
6) DICHLORODIFLUOROMETHANE	2.430	2.605	2.232	2.464	2.458	2.507	2.286	2.240	2.393	2.333	2.395	5.06
7) PROPYLENE	1.071	0.884	0.802	0.773	0.770	0.792	0.740	0.724	0.781	0.764	0.810	12.49
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.209	2.330	2.069	2.243	2.205	2.234	2.046	1.940	2.046	1.984	2.131	6.08
9) FREON 114	2.502	2.559	2.224	2.545	2.563	2.616	2.427	2.335	2.486	2.428	2.469	4.82
10) CHLOROMETHANE	0.455	0.388	0.331	0.328	0.341	0.337	0.316	0.304	0.322	0.312	0.343	13.20
11) VINYL CHLORIDE	1.458	1.323	1.045	1.211	1.233	1.252	1.156	1.121	1.196	1.166	1.216	9.35
12) 1,3-BUTADIENE	1.219	1.115	0.851	0.966	0.948	0.970	0.888	0.854	0.905	0.890	0.961	12.39
13) N-BUTANE	2.037	1.684	1.681	1.625	1.658	1.513	1.438	1.522	1.470		1.625	11.08
14) BROMOMETHANE	1.198	1.035	0.868	0.913	0.937	0.952	0.882	0.849	0.907	0.888	0.943	11.02
15) CHLOROETHANE	0.861	0.707	0.614	0.656	0.639	0.662	0.623	0.586	0.634	0.618	0.660	11.78
16) DICHLOROFLUOROMETHANE	2.550	2.579	2.157	2.307	2.310	2.365	2.164	2.072	2.204	2.152	2.286	7.50
17) ACETONITRILE	1.721	1.525	1.208	1.108	1.011	1.040	0.948	0.902	0.961	0.935	1.136	24.30
18) ACROLEIN	0.687	0.560	0.578	0.522	0.542	0.495	0.474	0.507	0.493		0.540	11.98
19) FREON 123	2.414	2.455	2.175	2.383	2.349	2.423	2.225	2.120	2.271	2.217	2.303	5.06
20) FREON 123A	1.611	1.387	1.303	1.356	1.389	1.419	1.304	1.248	1.330	1.298	1.364	7.40
21) TRICHLOROFLUOROMETHANE	2.753	2.717	2.507	2.784	2.706	2.755	2.516	2.365	2.495	2.413	2.601	6.06
22) ISOPROPYL ALCOHOL	2.546	2.456	2.277	2.284	2.064	1.926	2.061	2.020			2.204	10.05
23) ACETONE												

Initial Calibration Summary

Job Number: JE23791 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
                    0.656 0.680 0.609 0.633 0.569 0.543 0.574 0.556  0.603    8.27
24)  PENTANE
          1.606 1.407 1.190 1.200 1.152 1.181 1.073 1.014 1.072 1.043  1.194   15.35
25)  IODOMETHANE
          2.438 2.580 2.265 2.470 2.464 2.527 2.313 2.208 2.364 2.301  2.393    5.06
26)  1,1-DICHLOROETHYLENE
          1.069 1.117 0.969 0.998 1.011 1.023 0.937 0.893 0.958 0.941  0.991    6.72
27)  CARBON DISULFIDE
          2.988 3.039 2.590 2.949 2.902 2.970 2.722 2.581 2.743 2.649  2.813    6.24
28)  ETHANOL
                    0.707 0.722 0.581 0.585 0.538 0.501 0.535 0.525  0.587   14.28
29)  BROMOETHENE
          1.011 1.016 0.878 0.948 0.967 0.995 0.915 0.878 0.942 0.919  0.947    5.32
30)  ACRYLONITRILE
                    0.902 0.945 0.863 0.877 0.802 0.767 0.822 0.800  0.847    7.05
31)  METHYLENE CHLORIDE
               1.365 0.950 1.004 0.951 0.971 0.878 0.845 0.906 0.879  0.972   16.03
32)  3-CHLOROPROPENE
          0.565 0.547 0.514 0.539 0.548 0.554 0.515 0.489 0.524 0.509  0.530    4.50
33)  FREON 113
          1.465 1.565 1.411 1.596 1.560 1.594 1.454 1.381 1.476 1.433  1.493    5.28
34)  TRANS-1,2-DICHLOROETHENE
          1.192 1.283 0.975 1.120 1.106 1.128 1.036 0.985 1.053 1.031  1.091    8.76
35)  TERTIARY BUTYL ALCOHOL
          3.327 3.620 2.504 2.744 2.758 2.788 2.506 2.337 2.506 2.448  2.754   14.99
36)  METHYL TERTIARY BUTYL ETHER
          3.411 3.505 2.859 3.151 3.124 3.202 2.945 2.821 3.037 2.976  3.103    7.24
37)  TETRAHYDROFURAN
          0.463 0.602 0.399 0.525 0.513 0.535 0.492 0.480 0.516 0.507  0.503   10.41
38)  HEXANE
          2.426 2.447 1.855 2.100 2.092 2.121 1.971 1.886 2.029 1.974  2.090    9.71
39)  VINYL ACETATE
          0.346 0.297 0.248 0.276 0.290 0.312 0.297 0.291 0.313 0.311  0.298    8.61
40)  1,1-DICHLOROETHANE
          2.208 2.250 1.966 2.188 2.166 2.223 2.038 1.955 2.090 2.006  2.109    5.30
41)  METHYL ETHYL KETONE
          0.680 0.718 0.505 0.543 0.558 0.573 0.528 0.509 0.548 0.540  0.570   12.52
42)  CIS-1,2-DICHLOROETHENE
          1.234 1.216 1.059 1.153 1.131 1.168 1.084 1.043 1.122 1.105  1.132    5.56
43)  DIISOPROPYL ETHER
          0.655 0.625 0.569 0.597 0.608 0.610 0.568 0.546 0.580 0.566  0.593    5.54
44)  ETHYL ACETATE
          0.424 0.389 0.362 0.383 0.409 0.431 0.405 0.389 0.414 0.401  0.401    5.13
45)  METHYL ACRYLATE
          2.886 2.714 2.279 2.520 2.550 2.627 2.441 2.344 2.498 2.434  2.529    7.05
46)  CHLOROFORM
          2.197 2.312 2.087 2.345 2.258 2.323 2.107 1.996 2.127 2.074  2.183    5.57
47)  2,4-DIMETHYLPENTANE
          2.514 2.532 2.162 2.399 2.371 2.421 2.242 2.159 2.317 2.276  2.339    5.64
48)  1,1,1-TRICHLOROETHANE
          2.385 2.439 2.098 2.353 2.370 2.418 2.235 2.144 2.305 2.254  2.300    5.01
49)  CARBON TETRACHLORIDE
          2.279 2.359 2.087 2.395 2.491 2.585 2.402 2.314 2.482 2.435  2.383    5.75
50)  1,2-DICHLOROETHANE
          1.529 1.771 1.601 1.817 1.788 1.824 1.680 1.592 1.704 1.661  1.697    6.03
51)  BENZENE
          3.752 3.819 3.173 3.365 3.315 3.400 3.154 3.029 3.266 3.210  3.348    7.61

52) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
53)  CYCLOHEXANE
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          0.289 0.316 0.271 0.301 0.297 0.307 0.287 0.273 0.293 0.292  0.293    4.78
54)  2,3-DIMETHYLPENTANE
          0.134 0.157 0.127 0.152 0.150 0.156 0.144 0.140 0.149 0.149  0.146    6.57
55)  TRICHLOROETHENE
          0.321 0.352 0.277 0.322 0.315 0.327 0.303 0.290 0.307 0.305  0.312    6.69
56)  1,2-DICHLOROPROPANE
          0.293 0.297 0.236 0.287 0.276 0.288 0.269 0.259 0.276 0.274  0.276    6.53
57)  DIBROMOMETHANE
          0.334 0.292 0.244 0.263 0.256 0.267 0.247 0.241 0.257 0.257  0.266   10.55
58)  ETHYL ACRYLATE
          0.633 0.638 0.568 0.598 0.626 0.654 0.614 0.590 0.627 0.622  0.617    4.11
59)  BROMODICHLOROMETHANE
          0.497 0.496 0.450 0.504 0.522 0.542 0.509 0.488 0.518 0.513  0.504    4.82
60)  2,2,4-TRIMETHYLPENTANE
          1.551 1.607 1.274 1.372 1.313 1.363 1.263 1.209 1.281 1.270  1.350    9.64
61)  1,4-DIOXANE
                      0.119 0.148 0.155 0.162 0.148 0.142 0.153 0.153  0.148    8.73
62)  HEPTANE
          0.521 0.485 0.419 0.457 0.443 0.456 0.421 0.404 0.428 0.424  0.446    7.95
63)  METHYL METHACRYLATE
          0.275 0.256 0.220 0.251 0.252 0.262 0.247 0.238 0.254 0.251  0.251    5.74
64)  METHYL ISOBUTYL KETONE
          0.327 0.358 0.222 0.242 0.257 0.269 0.250 0.240 0.255 0.253  0.267   15.78
65)  CIS-1,3-DICHLOROPROPENE
          0.386 0.412 0.377 0.409 0.433 0.458 0.431 0.422 0.450 0.449  0.423    6.41
66)  TOLUENE
          0.794 0.853 0.735 0.806 0.797 0.829 0.777 0.750 0.801 0.798  0.794    4.35
67)  1,3-DICHLOROPROPANE
          0.371 0.411 0.360 0.404 0.410 0.429 0.401 0.383 0.408 0.403  0.398    5.17
68)  TRANS-1,3-DICHLOROPROPENE
          0.306 0.358 0.314 0.361 0.397 0.425 0.407 0.399 0.426 0.426  0.382   11.78
69)  1,1,2-TRICHLOROETHANE
          0.177 0.235 0.215 0.239 0.234 0.246 0.229 0.221 0.235 0.232  0.226    8.60
70)  2-HEXANONE
          0.551 0.561 0.286 0.321 0.341 0.353 0.330 0.317 0.337 0.334  0.373   26.30
71)  ETHYL METHACRYLATE
          0.409 0.415 0.369 0.418 0.431 0.450 0.421 0.404 0.431 0.429  0.418    5.11
72)  TETRACHLOROETHENE
          0.284 0.301 0.266 0.297 0.292 0.305 0.287 0.277 0.295 0.292  0.290    4.03
73)  DIBROMOCHLOROMETHANE
          0.387 0.447 0.377 0.424 0.479 0.511 0.486 0.474 0.507 0.505  0.460   10.69
74)  1,2-DIBROMOETHANE
          0.390 0.428 0.370 0.416 0.422 0.438 0.407 0.391 0.418 0.414  0.409    4.99
75)  OCTANE
          0.655 0.631 0.559 0.596 0.602 0.624 0.580 0.556 0.587 0.582  0.597    5.33

76) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
77)  1,1,1,2-TETRACHLOROETHANE
          0.343 0.367 0.294 0.339 0.374 0.394 0.367 0.357 0.377 0.379  0.359    7.87
78)  CHLOROBENZENE
          0.675 0.708 0.637 0.693 0.700 0.721 0.670 0.650 0.686 0.692  0.683    3.74
79)  ETHYLBENZENE
          1.102 1.188 1.022 1.113 1.145 1.188 1.103 1.070 1.126 1.136  1.119    4.50
80)  M,P-XYLENE
          0.940 0.969 0.843 0.899 0.934 0.953 0.886 0.853 0.895 0.897  0.907    4.59
81)  O-XYLENE
          0.848 0.949 0.803 0.890 0.917 0.935 0.865 0.834 0.876 0.883  0.880    5.14
82)  STYRENE
          0.585 0.667 0.537 0.636 0.698 0.728 0.678 0.664 0.699 0.705  0.660    8.95
83)  NONANE
```

Initial Calibration Summary

Job Number: JE23791 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
           0.735 0.732 0.655 0.678 0.699 0.717 0.665 0.637 0.665 0.669  0.685    4.92
 84)  BROMOFORM
           0.327 0.379 0.342 0.378 0.440 0.475 0.457 0.452 0.483 0.489  0.422   14.30
 85)  1,1,2,2-TETRACHLOROETHANE
           0.585 0.632 0.595 0.635 0.663 0.680 0.629 0.606 0.638 0.642  0.630    4.61
 86)  1,2,3-TRICHLOROPROPANE
           0.459 0.490 0.452 0.513 0.520 0.536 0.491 0.474 0.500 0.506  0.494    5.38
 87)  4-BROMOFLUOROBENZENE
           0.795 0.797 0.788 0.782 0.814 0.814 0.811 0.819 0.805 0.827  0.805    1.77
 88)  ISOPROPYLBENZENE
           0.310 0.362 0.307 0.333 0.350 0.358 0.331 0.321 0.335 0.340  0.335    5.62
 89)  BROMOBENZENE
           0.635 0.709 0.582 0.638 0.665 0.677 0.629 0.608 0.638 0.645  0.643    5.48
 90)  2-CHLOROTOLUENE
           0.291 0.323 0.266 0.303 0.327 0.338 0.316 0.306 0.323 0.327  0.312    6.80
 91)  N-PROPYLBENZENE
           0.304 0.354 0.329 0.341 0.378 0.388 0.362 0.351 0.370 0.374  0.355    7.08
 92)  4-ETHYLTOLUENE
           1.225 1.328 1.167 1.286 1.380 1.406 1.322 1.291 1.361 1.375  1.314    5.66
 93)  1,3,5-TRIMETHYLBENZENE
           1.057 1.125 0.973 1.053 1.143 1.172 1.092 1.064 1.125 1.132  1.094    5.33
 94)  ALPHA-METHYLSTYRENE
           0.465 0.531 0.443 0.509 0.582 0.598 0.561 0.553 0.589 0.593  0.542   10.10
 95)  TERT-BUTYLBENZENE
           0.292 0.271 0.234 0.266 0.276 0.283 0.259 0.253 0.265 0.267  0.267    5.99
 96)  1,2,4-TRIMETHYLBENZENE
           0.993 1.060 0.975 1.056 1.151 1.185 1.098 1.068 1.127 1.130  1.084    6.19
 97)  BENZYL CHLORIDE
           0.665 0.680 0.609 0.685 0.934 1.021 0.987 1.003 1.077 1.097  0.876   21.94
 98)  M-DICHLOROBENZENE
           0.778 0.747 0.669 0.727 0.770 0.792 0.735 0.716 0.754 0.761  0.745    4.75
 99)  P-DICHLOROBENZENE
           0.732 0.753 0.673 0.715 0.761 0.780 0.725 0.704 0.746 0.752  0.734    4.23
100)  O-DICHLOROBENZENE
           0.638 0.739 0.634 0.684 0.718 0.733 0.678 0.665 0.706 0.715  0.691    5.41
101)  SEC-BUTYLBENZENE
           0.279 0.343 0.289 0.319 0.333 0.341 0.317 0.306 0.323 0.325  0.318    6.61
102)  1,2,3-TRIMETHYLBENZENE
           1.078 1.094 0.958 1.060 1.137 1.163 1.076 1.057 1.118 1.129  1.087    5.28
103)  P-ISOPROPYLTOLUENE
           0.330 0.354 0.319 0.351 0.372 0.383 0.354 0.342 0.361 0.363  0.353    5.38
104)  N-BUTYLBENZENE
           0.300 0.310 0.302 0.317 0.357 0.368 0.345 0.340 0.362 0.364  0.336    7.99
105)  HEXACHLOROETHANE
           0.381 0.371 0.330 0.367 0.438 0.457 0.435 0.435 0.462 0.468  0.415   11.60
106)  HEXACHLOROBUTADIENE
           0.478 0.495 0.442 0.464 0.483 0.503 0.482 0.495 0.533 0.542  0.491    6.07
107)  1,2,4-TRICHLOROBENZENE
           0.484 0.469 0.444 0.485 0.601 0.648 0.626 0.653 0.724 0.760  0.589   19.07
108)  NAPHTHALENE
           1.002 1.026 0.865 1.011 1.370 1.508 1.466 1.522 1.680 1.773  1.322   24.25

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
                      7.365 7.136 5.390 5.515 5.122 4.738 5.018 4.871  5.644   18.16
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M7W577.M          Fri Aug 08 16:10:30 2025
```

Initial Calibration Verification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-ICV577
Lab FileID: 7W16597.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\7w16597.D Vial: 5
Acq On : 7 Aug 2025 6:07 pm Operator: benk
Sample : icv577-10 Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	0.00	3.19
2	T	FREON 115	1.213	1.246	-2.7	95	0.00	1.58
3	T	FREON 152A	0.626	0.611	2.4	97	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.285	-4.8	100	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.329	-1.7	95	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.616	-9.2	102	0.00	1.65
7	T	PROPYLENE	0.810	0.788	2.7	97	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.153	-1.0	94	0.00	1.68
9	T	FREON 114	2.469	2.694	-9.1	101	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.350	-2.0	102	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.267	-4.2	99	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.982	-2.2	99	0.00	1.79
13	T	N-BUTANE	1.625	1.681	-3.4	99	0.00	1.80
14	T	BROMOMETHANE	0.943	0.998	-5.8	103	0.00	1.86
15	T	CHLOROETHANE	0.660	0.669	-1.4	99	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.479	-8.4	103	0.00	1.93
17	T	ACETONITRILE	1.136	1.096	3.5	103	0.00	2.00
18	T	ACROLEIN	0.540	0.545	-0.9	99	0.00	2.04
19	T	FREON 123	2.303	2.334	-1.3	94	0.00	2.05
20	T	FREON 123A	1.364	1.283	5.9	89	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.842	-9.3	101	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.550	-15.7	109	0.00	2.14
23	T	ACETONE	0.603	0.625	-3.6	97	0.00	2.07
24	T	PENTANE	1.194	1.175	1.6	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.479	-3.6	96	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	1.009	-1.8	97	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.756	2.0	91	0.00	2.46
28	T	ETHANOL	0.587	0.617	-5.1	103	0.00	1.93
29	T	BROMOETHENE	0.947	0.979	-3.4	96	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.867	-2.4	97	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.978	-0.6	99	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.547	-3.2	97	0.00	2.41
33	T	FREON 113	1.493	1.611	-7.9	99	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	1.105	-1.3	96	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	3.094	-12.3	109	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	3.270	-5.4	100	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.589	-17.1	108	0.00	3.47
38	T	HEXANE	2.090	2.121	-1.5	98	0.00	3.24
39	T	VINYL ACETATE	0.298	0.316	-6.0	99	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.238	-6.1	99	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.578	-1.4	99	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.188	-4.9	100	0.00	3.12

Initial Calibration Verification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-ICV577
Lab FileID: 7W16597.D

43	T	DIISOPROPYL ETHER	0.593	0.628	-5.9	101	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.405	-1.0	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.624	-3.8	98	0.00	3.24
46	T	CHLOROFORM	2.183	2.360	-8.1	100	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.482	-6.1	100	0.00	3.74
48	T	1,1,1-TRICHLOROETHANE	2.300	2.477	-7.7	100	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.593	-8.8	98	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.858	-9.5	100	0.00	3.66
51	t	BENZENE	3.348	3.478	-3.9	100	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.313	-6.8	100	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.159	-8.9	100	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.328	-5.1	99	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.290	-5.1	99	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.267	-0.4	98	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.656	-6.3	99	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.555	-10.1	101	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.381	-2.3	100	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.175	-18.2	106	0.00	5.02
62	T	HEPTANE	0.446	0.460	-3.1	99	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.270	-7.6	101	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.277	-3.7	101	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.423	0.0	91	0.00	5.94
66	T	TOLUENE	0.794	0.843	-6.2	100	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.426	-7.0	98	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.415	-8.6	96	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.247	-9.3	99	0.00	6.77
70	T	2-HEXANONE	0.373	0.368	1.3	103	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.451	-7.9	99	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.309	-6.6	99	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.523	-13.7	101	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.437	-6.8	98	0.00	8.00
75	T	OCTANE	0.597	0.635	-6.4	100	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.398	-10.9	99	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.728	-6.6	99	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.197	-7.0	99	0.00	10.92
80	t	M,P-XYLENE	0.907	0.962	-6.1	99	0.00	11.35
81	t	O-XYLENE	0.880	0.951	-8.1	100	0.00	12.28
82	T	STYRENE	0.660	0.702	-6.4	94	0.00	12.07
83	T	NONANE	0.685	0.720	-5.1	98	0.00	13.40
84	T	BROMOFORM	0.422	0.500	-18.5	103	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.683	-8.4	98	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.538	-8.9	98	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.816	-1.4	98	0.00	13.32
88	T	ISOPROPYLBENZENE	0.335	0.363	-8.4	99	0.00	13.79
89	T	BROMOBENZENE	0.643	0.682	-6.1	99	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.338	-8.3	98	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.388	-9.3	98	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.399	-6.5	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.162	-6.2	97	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.522	3.7	85	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.280	-4.9	97	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.161	-7.1	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.883	-0.8	85	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.774	-3.9	96	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.756	-3.0	95	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.724	-4.8	97	0.00	16.99

Initial Calibration Verification

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Sample: V7W577-ICV577
Lab FileID: 7W16597.D

101	T	SEC-BUTYLBENZENE	0.318	0.341	-7.2	98	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.159	-6.6	98	0.00	16.94
103	T	P-ISOPROPYLTOLUENE	0.353	0.382	-8.2	98	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.361	-7.4	96	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	88	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.473	3.7	92	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.619	-5.1	94	0.00	18.31
108	T	NAPHTHALENE	1.322	1.417	-7.2	92	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	98	0.00	3.19
110		TVHC as equiv Pentane	5.644	5.524	2.1	98	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Fri Aug 08 16:10:52 2025

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17473.D Vial: 2
Acq On : 26 Sep 2025 11:04 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	105	0.00	3.19
2	T	FREON 115	1.213	1.348	-11.1	110	0.00	1.58
3	T	FREON 152A	0.626	0.642	-2.6	109	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.271	0.4	102	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.425	-9.0	109	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.356	1.6	99	0.00	1.65
7	T	PROPYLENE	0.810	0.774	4.4	103	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.002	6.1	94	0.00	1.69
9	T	FREON 114	2.469	2.380	3.6	96	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.267	22.2	83	0.00	1.69
11	T	VINYL CHLORIDE	1.216	0.990	18.6	83	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.789	17.9	85	0.00	1.79
13	T	N-BUTANE	1.625	1.307	19.6	83	0.00	1.80
14	T	BROMOMETHANE	0.943	0.881	6.6	97	0.00	1.86
15	T	CHLOROETHANE	0.660	0.558	15.5	89	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.107	7.8	94	0.00	1.93
17	T	ACETONITRILE	1.136	0.823	27.6	83	0.00	2.00
18	T	ACROLEIN	0.540	0.421	22.0	82	0.00	2.04
19	T	FREON 123	2.303	2.179	5.4	95	0.00	2.05
20	T	FREON 123A	1.364	1.343	1.5	100	0.00	2.07
21	T	TRICHLOROFLUOROMETHANE	2.601	2.684	-3.2	102	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	1.930	12.4	89	0.00	2.14
23	T	ACETONE	0.603	0.508	15.8	84	0.00	2.07
24	T	PENTANE	1.194	0.971	18.7	86	0.00	2.24
25	T	IODOMETHANE	2.393	2.426	-1.4	101	0.00	2.31
26	T	1,1-DICHLOROETHYLENE	0.991	0.912	8.0	94	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.397	14.8	85	0.00	2.47
28	T	ETHANOL	0.587	0.528	10.1	95	0.00	1.94
29	T	BROMOETHENE	0.947	0.914	3.5	97	0.00	2.01
30	T	ACRYLONITRILE	0.847	0.728	14.0	87	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.847	12.9	92	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.448	15.5	85	0.00	2.41
33	T	FREON 113	1.493	1.560	-4.5	103	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.923	15.4	86	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.016	26.8	76	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.792	10.0	92	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.482	4.2	95	0.00	3.47
38	T	HEXANE	2.090	1.901	9.0	94	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	96	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.002	5.1	95	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.523	8.2	96	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.098	3.0	99	0.00	3.12

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.522	12.0	90	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.378	5.7	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.289	9.5	92	0.00	3.24
46	T	CHLOROFORM	2.183	2.158	1.1	98	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.161	7.6	94	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.281	0.8	99	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.508	-5.2	102	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.592	6.2	92	0.00	3.66
51	t	BENZENE	3.348	3.151	5.9	97	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	103	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.289	1.4	97	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.145	0.7	96	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.315	-1.0	99	0.00	5.02
56	T	1,2-DICHLOROPROPANE	0.276	0.263	4.7	94	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.320	-20.3	124	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.576	6.6	91	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.523	-3.8	99	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.242	8.0	94	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.149	-0.7	95	0.00	5.03
62	T	HEPTANE	0.446	0.408	8.5	92	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.241	4.0	95	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.235	12.0	90	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.419	0.9	94	0.00	5.94
66	T	TOLUENE	0.794	0.782	1.5	97	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.402	-1.0	96	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.381	0.3	92	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.231	-2.2	97	0.00	6.77
70	T	2-HEXANONE	0.373	0.308	17.4	90	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.403	3.6	92	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.348	-20.0	117	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.519	-12.8	105	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.417	-2.0	98	0.00	8.00
75	T	OCTANE	0.597	0.552	7.5	91	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	102	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.371	-3.3	96	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.688	-0.7	97	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.127	-0.7	97	0.00	10.92
80	t	M,P-XYLENE	0.907	0.908	-0.1	97	0.00	11.35
81	t	O-XYLENE	0.880	0.887	-0.8	97	0.00	12.28
82	T	STYRENE	0.660	0.689	-4.4	96	0.00	12.07
83	T	NONANE	0.685	0.636	7.2	90	0.00	13.40
84	T	BROMOFORM	0.422	0.614	-45.5#	132	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.627	0.5	94	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.496	-0.4	94	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.806	-0.1	101	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.334	0.3	95	0.00	13.78
89	T	BROMOBENZENE	0.643	0.623	3.1	94	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.322	-3.2	97	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.367	-3.4	96	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.345	-2.4	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.126	-2.9	98	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.560	-3.3	95	0.00	16.18
95	T	TERT-BUTYLBENZENE	0.267	0.251	6.0	90	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.121	-3.4	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.818	6.6	82	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.758	-1.7	98	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.743	-1.2	97	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.700	-1.3	97	0.00	16.99

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.304	4.4	91	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.099	-1.1	96	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.342	3.1	91	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.332	1.2	92	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.440	-6.0	98	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.799	-62.7#	162#	-0.01	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.817	-38.7#	129	0.00	18.31
108	T	NAPHTHALENE	1.322	1.545	-16.9	104	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	105	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.772	15.5	91	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Sep 29 17:09:51 2025

6.9.7

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17801.D Vial: 1
Acq On : 13 Oct 2025 11:18 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	121	0.00	3.19
2	T	FREON 115	1.213	1.274	-5.0	120	0.00	1.58
3	T	FREON 152A	0.626	0.645	-3.0	127	0.00	1.60
4	T	CHLORODIFLUOROMETHANE	0.272	0.278	-2.2	120	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.370	-4.8	121	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.379	0.7	115	0.00	1.64
7	T	PROPYLENE	0.810	0.764	5.7	117	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.069	2.9	112	0.00	1.68
9	T	FREON 114	2.469	2.336	5.4	108	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.270	21.3	97	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.018	16.3	98	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.790	17.8	99	0.00	1.78
13	T	N-BUTANE	1.625	1.323	18.6	97	0.00	1.80
14	T	BROMOMETHANE	0.943	0.867	8.1	110	0.00	1.86
15	T	CHLOROETHANE	0.660	0.566	14.2	103	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.179	4.7	112	0.00	1.93
17	T	ACETONITRILE	1.136	0.822	27.6	96	0.00	2.00
18	T	ACROLEIN	0.540	0.416	23.0	93	0.00	2.03
19	T	FREON 123	2.303	2.148	6.7	107	0.00	2.05
20	T	FREON 123A	1.364	1.338	1.9	114	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.670	-2.7	117	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.103	4.6	111	0.00	2.14
23	T	ACETONE	0.603	0.521	13.6	100	0.00	2.07
24	T	PENTANE	1.194	0.947	20.7	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.395	-0.1	115	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.920	7.2	109	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.401	14.6	98	0.00	2.46
28	T	ETHANOL	0.587	0.454	22.7	94	0.00	1.94
29	T	BROMOETHENE	0.947	0.905	4.4	110	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.718	15.2	99	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.841	13.5	105	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.452	14.7	99	0.00	2.41
33	T	FREON 113	1.493	1.561	-4.6	119	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.918	15.9	99	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.179	20.9	95	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.838	8.5	107	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.476	5.4	108	0.00	3.47
38	T	HEXANE	2.090	1.897	9.2	108	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	110	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	1.925	8.7	105	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.507	11.1	107	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.078	4.8	112	0.00	3.12

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.536	9.6	106	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.385	4.0	108	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.343	7.4	108	0.00	3.23
46	T	CHLOROFORM	2.183	2.141	1.9	112	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.186	6.5	109	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.290	0.4	115	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.499	-4.9	117	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.640	3.4	109	0.00	3.66
51	t	BENZENE	3.348	3.068	8.4	109	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	119	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.280	4.4	108	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.142	2.7	108	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.307	1.6	112	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.267	3.3	110	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.321	-20.7	143#	0.00	4.75
58	T	ETHYL ACRYLATE	0.617	0.588	4.7	107	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.515	-2.2	113	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.250	7.4	109	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.151	-2.0	111	0.00	5.03
62	T	HEPTANE	0.446	0.407	8.7	106	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.239	4.8	108	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.242	9.4	107	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.417	1.4	108	0.00	5.94
66	T	TOLUENE	0.794	0.769	3.1	110	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.390	2.0	108	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.387	-1.3	108	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.227	-0.4	110	0.00	6.77
70	T	2-HEXANONE	0.373	0.318	14.7	107	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.401	4.1	106	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.356	-22.8	138	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.515	-12.0	120	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.414	-1.2	112	0.00	8.00
75	T	OCTANE	0.597	0.550	7.9	105	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00	9.96
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.361	-0.6	111	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.661	3.2	111	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.091	2.5	111	0.00	10.92
80	t	M,P-XYLENE	0.907	0.883	2.6	112	0.00	11.35
81	t	O-XYLENE	0.880	0.862	2.0	111	0.00	12.27
82	T	STYRENE	0.660	0.663	-0.5	110	0.00	12.07
83	T	NONANE	0.685	0.617	9.9	104	0.00	13.40
84	T	BROMOFORM	0.422	0.611	-44.8#	155#	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.611	3.0	108	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.484	2.0	109	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.817	-1.5	121	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.323	3.6	109	0.00	13.79
89	T	BROMOBENZENE	0.643	0.604	6.1	107	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.309	1.0	110	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.352	0.8	109	0.00	15.13
92	T	4-ETHYLTOLUENE	1.314	1.312	0.2	113	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.087	0.6	112	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.540	0.4	109	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.237	11.2	101	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.091	-0.6	111	0.00	16.51
97	T	BENZYL CHLORIDE	0.876	0.828	5.5	98	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.733	1.6	112	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.718	2.2	111	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.682	1.3	112	0.00	16.99

Continuing Calibration Summary

Job Number: JE23791 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.294	7.5	104	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.068	1.7	111	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.328	7.1	103	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.317	5.7	104	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	108	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.775	-57.8#	186#	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.781	-32.6#	145#	-0.01	18.31
108	T	NAPHTHALENE	1.322	1.446	-9.4	116	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	121	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.664	17.4	102	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Oct 13 21:33:39 2025

6.9.8

6

Run Sequence Report

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2292	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2292-BFB	5W59768.D	11/06/25 21:59	n/a	BFB Tune
V5W2292-IC2292	5W59769.D	11/06/25 22:35	n/a	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25 23:11	n/a	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25 23:50	n/a	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25 03:41	n/a	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25 06:57	n/a	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	n/a	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25 08:12	n/a	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25 08:54	n/a	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25 09:38	n/a	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25 10:24	n/a	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25 12:25	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2301	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2301-BFB	5W60000.D	11/24/25 09:12	n/a	BFB Tune
V5W2301-CC2292	5W60001.D	11/24/25 09:49	n/a	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25 12:02	n/a	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25 12:39	n/a	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25 14:27	n/a	Method Blank
ZZZZZZ	5W60006.D	11/24/25 15:18	n/a	(unrelated sample)
JE23789-3	5W60007.D	11/24/25 15:56	n/a	(used for QC only; not part of job JE23791)
JE23789-3DUP	5W60008.D	11/24/25 16:33	n/a	Duplicate
ZZZZZZ	5W60009.D	11/24/25 17:15	n/a	(unrelated sample)
ZZZZZZ	5W60010.D	11/24/25 17:58	n/a	(unrelated sample)
JE23791-1	5W60011.D	11/24/25 18:41	n/a	SS-1
JE23791-2	5W60012.D	11/24/25 19:25	n/a	IA-1
JE23791-3	5W60013.D	11/24/25 20:08	n/a	SS-2
JE23791-4	5W60014.D	11/24/25 20:52	n/a	IA-2
ZZZZZZ	5W60015.D	11/24/25 21:35	n/a	(unrelated sample)
ZZZZZZ	5W60016.D	11/24/25 22:19	n/a	(unrelated sample)
ZZZZZZ	5W60017.D	11/24/25 23:02	n/a	(unrelated sample)
ZZZZZZ	5W60018.D	11/24/25 23:46	n/a	(unrelated sample)
ZZZZZZ	5W60019.D	11/25/25 00:29	n/a	(unrelated sample)
ZZZZZZ	5W60020.D	11/25/25 01:14	n/a	(unrelated sample)
ZZZZZZ	5W60021.D	11/25/25 01:58	n/a	(unrelated sample)
ZZZZZZ	5W60022.D	11/25/25 02:43	n/a	(unrelated sample)
ZZZZZZ	5W60023.D	11/25/25 03:27	n/a	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25 04:12	n/a	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25 05:54	n/a	(unrelated sample)
ZZZZZZ	5W60027.D	11/25/25 06:37	n/a	(unrelated sample)
JE23789-3	5W60028.D	11/25/25 07:20	n/a	(used for QC only; not part of job JE23791)
JE23791-1	5W60029.D	11/25/25 07:57	n/a	SS-1
JE23791-2	5W60030.D	11/25/25 08:34	n/a	IA-1

Run Sequence Report

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2302 **Method:** TO-15 **Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2302-BFB	5W60032.D	11/25/25 10:05	n/a	BFB Tune
V5W2302-CC2292	5W60033.D	11/25/25 11:25	n/a	Continuing cal 10
V5W2302-BS	5W60034.D	11/25/25 12:07	n/a	Blank Spike
V5W2302-BSD	5W60035.D	11/25/25 12:44	n/a	Blank Spike Duplicate
V5W2302-MB	5W60038.D	11/25/25 15:07	n/a	Method Blank
JE23791-2	5W60039.D	11/25/25 15:53	n/a	IA-1
JE23836-1	5W60040.D	11/25/25 16:35	n/a	(used for QC only; not part of job JE23791)
JE23836-1DUP	5W60041.D	11/25/25 17:18	n/a	Duplicate
JE23791-4	5W60042.D	11/25/25 17:54	n/a	IA-2
ZZZZZZ	5W60043.D	11/25/25 18:32	n/a	(unrelated sample)
ZZZZZZ	5W60044.D	11/25/25 19:09	n/a	(unrelated sample)
ZZZZZZ	5W60045.D	11/25/25 19:46	n/a	(unrelated sample)
ZZZZZZ	5W60046.D	11/25/25 20:23	n/a	(unrelated sample)
ZZZZZZ	5W60047.D	11/25/25 20:59	n/a	(unrelated sample)
ZZZZZZ	5W60048.D	11/25/25 21:36	n/a	(unrelated sample)
ZZZZZZ	5W60049.D	11/25/25 22:13	n/a	(unrelated sample)
ZZZZZZ	5W60050.D	11/25/25 22:50	n/a	(unrelated sample)
ZZZZZZ	5W60051.D	11/25/25 23:27	n/a	(unrelated sample)
ZZZZZZ	5W60052.D	11/26/25 00:03	n/a	(unrelated sample)
ZZZZZZ	5W60053.D	11/26/25 00:40	n/a	(unrelated sample)
ZZZZZZ	5W60054.D	11/26/25 01:16	n/a	(unrelated sample)
ZZZZZZ	5W60055.D	11/26/25 01:52	n/a	(unrelated sample)
ZZZZZZ	5W60056.D	11/26/25 02:28	n/a	(unrelated sample)
ZZZZZZ	5W60057.D	11/26/25 03:04	n/a	(unrelated sample)
ZZZZZZ	5W60058.D	11/26/25 03:40	n/a	(unrelated sample)
ZZZZZZ	5W60059.D	11/26/25 04:16	n/a	(unrelated sample)
ZZZZZZ	5W60060.D	11/26/25 04:52	n/a	(unrelated sample)
ZZZZZZ	5W60061.D	11/26/25 05:28	n/a	(unrelated sample)
ZZZZZZ	5W60062.D	11/26/25 06:04	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W577	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W577-BFB	7W16573.D	08/07/25 02:05	n/a	BFB Tune
V7W577-IC577	7W16576.D	08/07/25 04:00	n/a	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25 04:38	n/a	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25 08:36	n/a	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25 09:13	n/a	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25 12:29	n/a	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25 13:07	n/a	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25 13:47	n/a	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25 14:30	n/a	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25 15:15	n/a	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25 16:02	n/a	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25 18:07	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W613	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W613-BFB	7W17472.D	09/26/25 10:25	n/a	BFB Tune
V7W613-CC577	7W17473.D	09/26/25 11:04	n/a	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25 11:54	n/a	Blank Spike
V7W613-BSD	7W17475.D	09/26/25 12:32	n/a	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25 14:01	n/a	Method Blank
ZZZZZZ	7W17478.D	09/26/25 15:51	n/a	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25 16:43	n/a	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25 17:30	n/a	(unrelated sample)
JE19193-2	7W17481.D	09/26/25 18:21	n/a	(used for QC only; not part of job JE23791)
JE19193-2DUP	7W17482.D	09/26/25 19:09	n/a	Duplicate
V7W613-SCC	7W17483.D	09/26/25 19:55	n/a	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25 20:38	n/a	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25 21:22	n/a	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25 22:06	n/a	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25 22:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25 23:33	n/a	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25 00:13	n/a	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25 00:52	n/a	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25 01:31	n/a	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25 02:11	n/a	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25 02:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25 03:29	n/a	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25 04:08	n/a	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25 04:48	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JE23791
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W624 **Method:** TO-15 **Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W624-BFB	7W17800.D	10/13/25 10:41	n/a	BFB Tune
V7W624-CC577	7W17801.D	10/13/25 11:18	n/a	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25 12:00	n/a	Blank Spike
V7W624-BSD	7W17803.D	10/13/25 12:37	n/a	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25 14:03	n/a	Method Blank
ZZZZZZ	7W17806.D	10/13/25 15:24	n/a	(unrelated sample)
JE20702-1	7W17807.D	10/13/25 16:09	n/a	(used for QC only; not part of job JE23791)
JE20702-1DUP	7W17808.D	10/13/25 16:55	n/a	Duplicate
ZZZZZZ	7W17809.D	10/13/25 17:45	n/a	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25 18:38	n/a	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25 19:25	n/a	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25 20:14	n/a	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25 21:05	n/a	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25 21:58	n/a	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25 22:49	n/a	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25 23:42	n/a	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25 00:27	n/a	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25 01:14	n/a	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25 02:02	n/a	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25 02:51	n/a	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25 03:40	n/a	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25 04:19	n/a	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25 04:58	n/a	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25 05:38	n/a	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25 06:17	n/a	(unrelated sample)
ZZZZZZ	7W17826.D	10/14/25 06:55	n/a	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25 07:39	n/a	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25 08:23	n/a	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25 09:07	n/a	Summa Cleaning Certification

MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 19:10

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 5w60011.D
Acq On : 24 Nov 2025 6:41 pm
Operator : benk
Sample : je23791-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 23:56:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

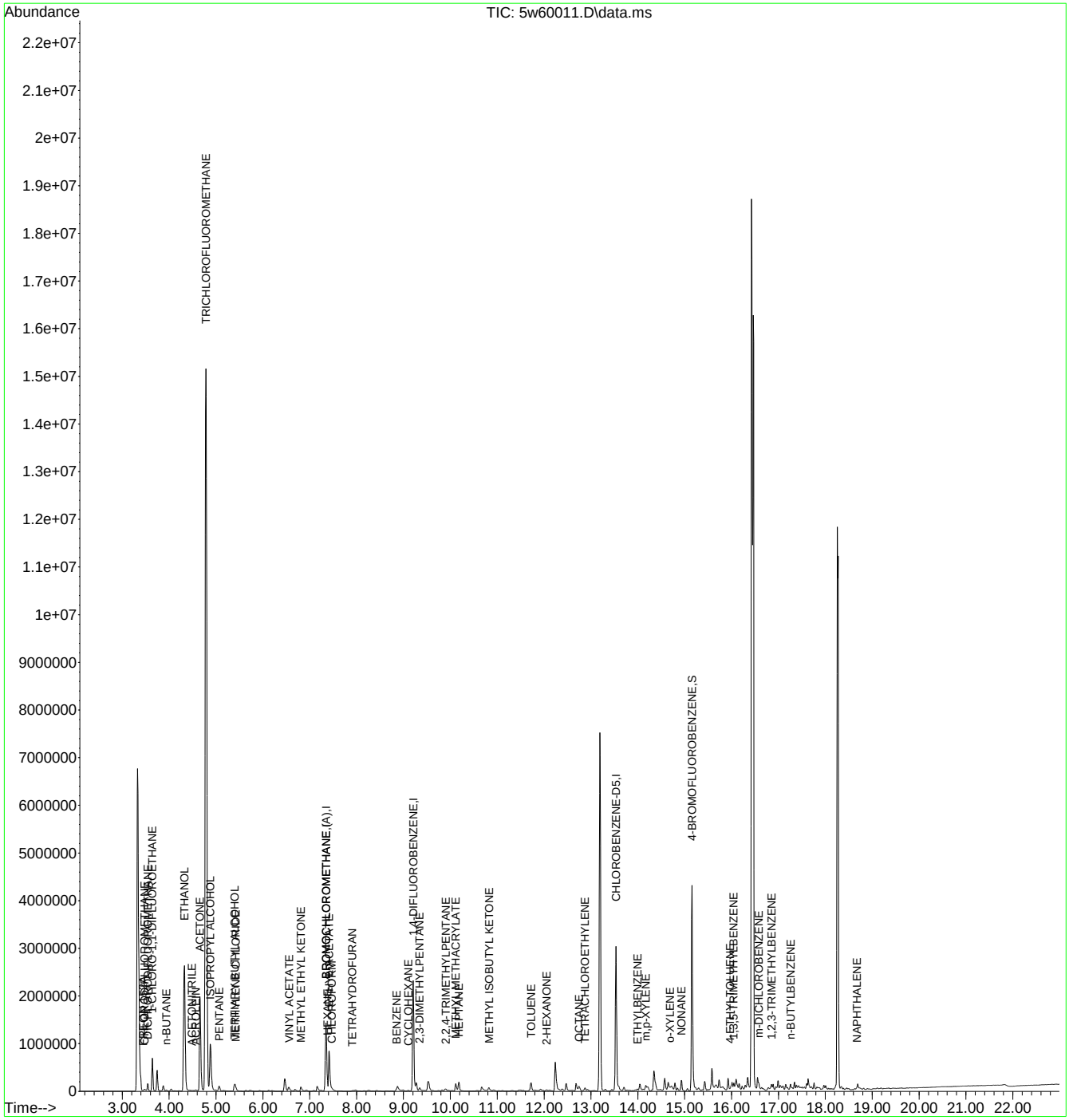
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	456556	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2083658	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1040810	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	456556	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1402519	10.78	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 107.80%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	3826	0.1130	PPBV	95
4) CHLORODIFLUOROMETHANE	3.475	67	6874	0.4853	PPBV	59
6) DICHLORODIFLUOROMETHANE	3.543	85	139660	1.0689	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	637042	6.0203	PPBV	97
13) n-BUTANE	3.940	43	17286	0.3973	PPBV	94
17) ACETONITRILE	4.485	41	3403	0.1369	PPBV #	5
18) ACROLEIN	4.570	56	16764	1.1868	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.785	101	15780919	141.3993	PPBV	95
22) ISOPROPYL ALCOHOL	4.876	45	1443588	16.1244	PPBV	99
23) ACETONE	4.656	58	937530	52.3575	PPBV	86
24) PENTANE	5.066	42	41909	0.9010	PPBV	99
28) ETHANOL	4.326	45	3864535	257.6496	PPBV	98
31) METHYLENE CHLORIDE	5.421	84	12378	0.2702	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.396	59	225682	2.4652	PPBV	95
37) TETRAHYDROFURAN	7.905	72	3482	0.1964	PPBV #	1
38) HEXANE	7.378	57	28212	0.3871	PPBV	94
39) VINYL ACETATE	6.559	86	8226	1.1159	PPBV #	58
41) METHYL ETHYL KETONE	6.810	72	36600	2.0754	PPBV #	85
44) ETHYL ACETATE	7.415	61	180040	13.3607	PPBV	92
46) CHLOROFORM	7.470	83	21222	0.2091	PPBV	100
52) BENZENE	8.853	78	51314	0.3676	PPBV	98
53) CYCLOHEXANE	9.104	84	6187	0.1109	PPBV #	57
54) 2,3-DIMETHYLPENTANE	9.342	71	11456	0.4065	PPBV #	35
60) 2,2,4-TRIMETHYLPENTANE	9.905	57	25201	0.1141	PPBV #	22
62) HEPTANE	10.180	43	98486	1.2261	PPBV	88
63) METHYL METHACRYLATE	10.113	69	76060	1.6718	PPBV	87
64) METHYL ISOBUTYL KETONE	10.823	58	9895	0.2403	PPBV	90
66) TOLUENE	11.722	92	86082	0.8250	PPBV	98
71) 2-HEXANONE	12.052	58	15914	0.2923	PPBV #	70
73) TETRACHLOROETHYLENE	12.872	164	17191	0.2421	PPBV	98
76) OCTANE	12.744	43	59081m	0.5976	PPBV	
79) ETHYLBENZENE	13.992	91	41373	0.2074	PPBV	96
80) m,p-XYLENE	14.169	106	49345	0.6276	PPBV	98
81) o-XYLENE	14.683	106	22526	0.3060	PPBV	89
83) NONANE	14.928	43	82062	0.8206	PPBV	90
92) 4-ETHYLTOLUENE	15.968	105	23139m	0.1122	PPBV	
93) 1,3,5-TRIMETHYLBENZENE	16.041	105	27790	0.1450	PPBV	92
97) m-DICHLOROBENZENE	16.580	146	55147	0.4033	PPBV	95
101) 1,2,3-TRIMETHYLBENZENE	16.855	105	33587	0.1775	PPBV	82
104) n-BUTYLBENZENE	17.259	134	14254	0.2604	PPBV #	1
108) NAPHTHALENE	18.678	128	27249	0.0984	PPBV	85

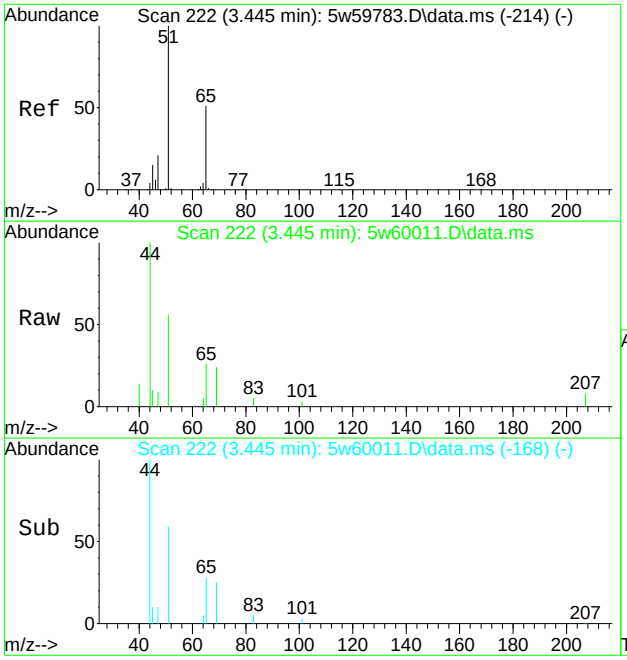
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60011.D
Acq On : 24 Nov 2025 6:41 pm
Operator : benk
Sample : je23791-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 23:56:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

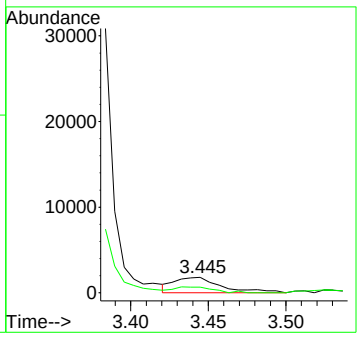


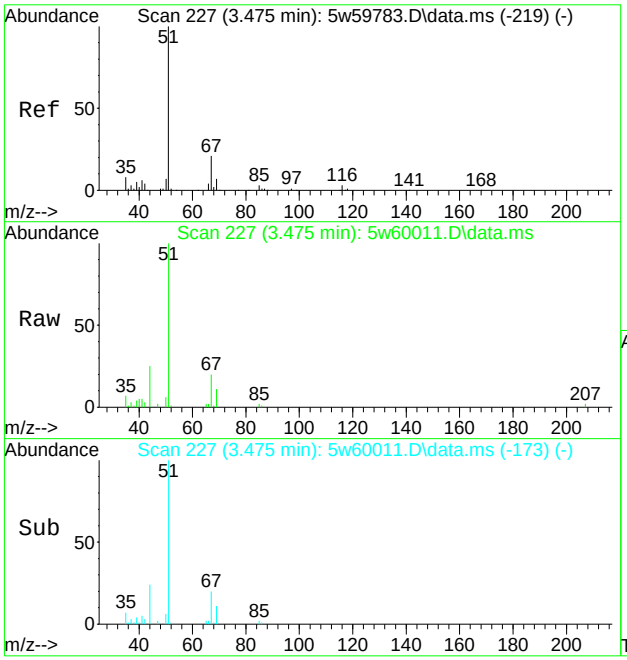


#3
FREON 152A
Concen: 0.1130 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 65 Resp: 3826

Ion	Ratio	Lower	Upper
65	100		
45	32.5	0.0	60.0

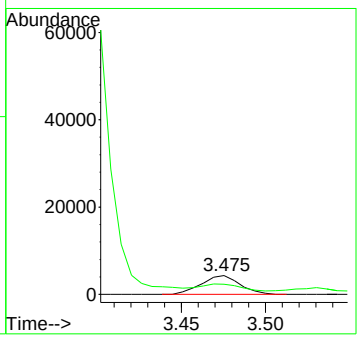


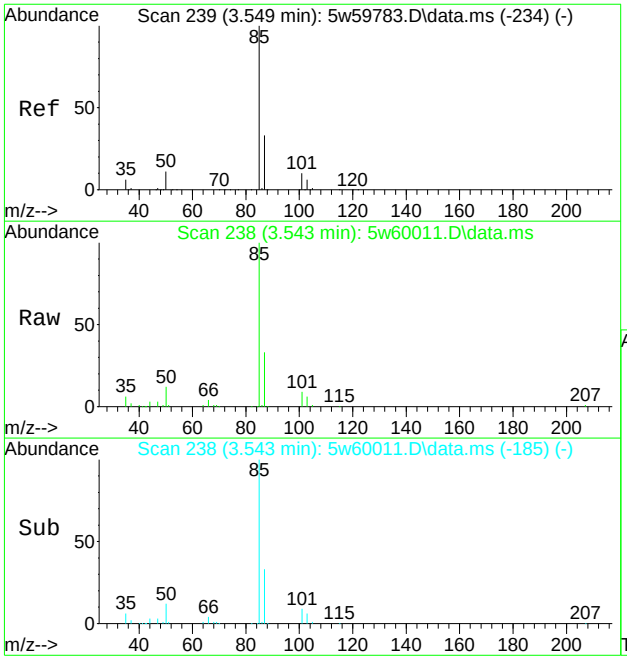


#4
CHLORODIFLUOROMETHANE
Concen: 0.4853 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 67 Resp: 6874

Ion	Ratio	Lower	Upper
67	100		
69	53.7	1.0	61.0

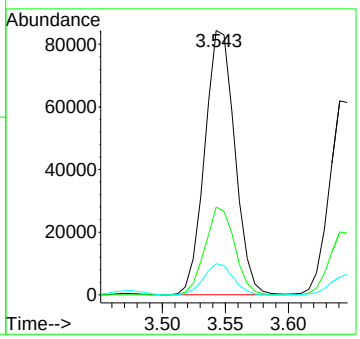


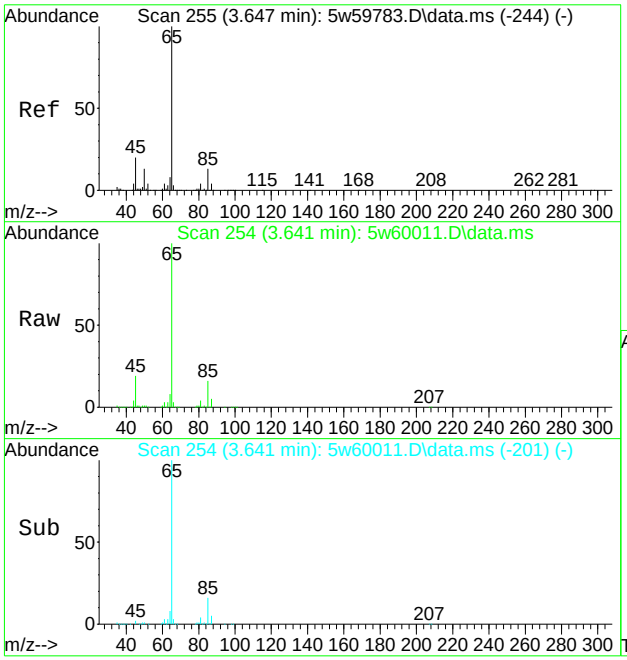


#6
DICHLORODIFLUOROMETHANE
Concen: 1.0689 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 85 Resp: 139660

Ion	Ratio	Lower	Upper
85	100		
87	32.5	2.5	62.5
50	11.5	0.0	41.7

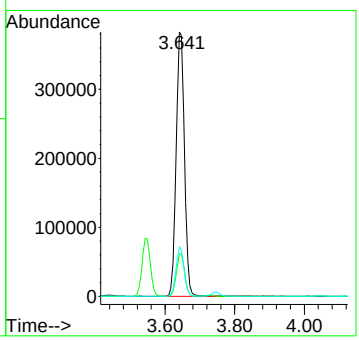


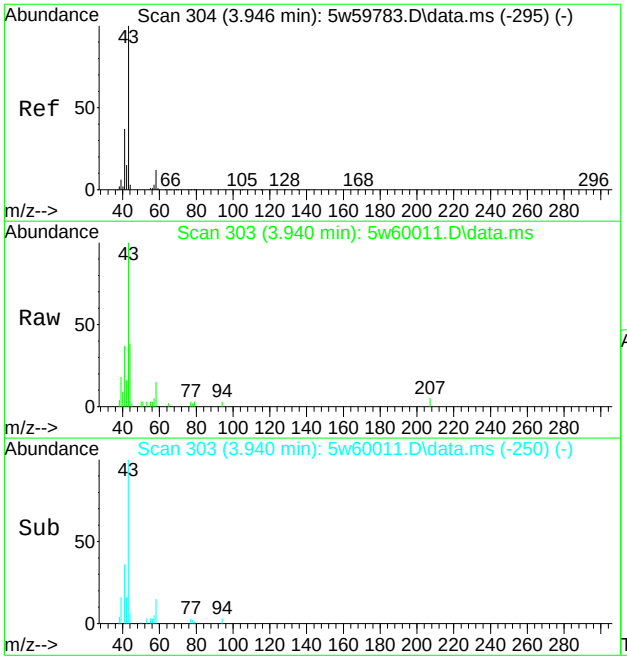


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 6.0203 PPBV
RT: 3.641 min Scan# 254
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 65 Resp: 637042

Ion	Ratio	Lower	Upper
65	100		
85	16.0	11.5	21.3
45	18.2	14.0	26.0

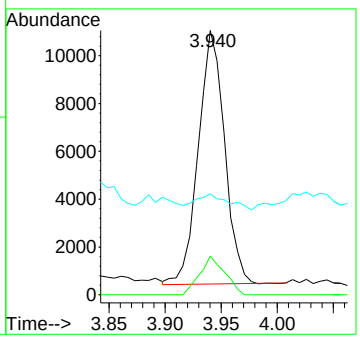


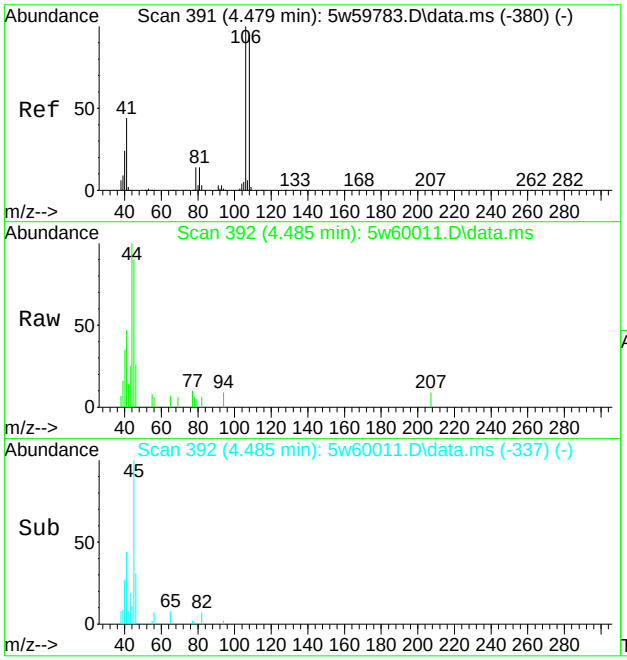


#13
n-BUTANE
Concen: 0.3973 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 43 Resp: 17286

Ion	Ratio	Lower	Upper
43	100		
58	14.5	0.0	42.6
44	7.7	0.0	34.9

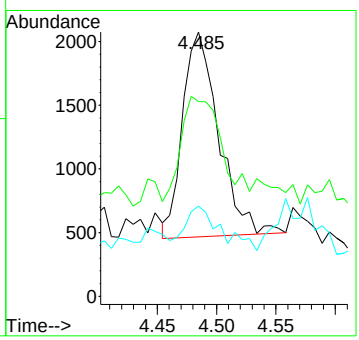


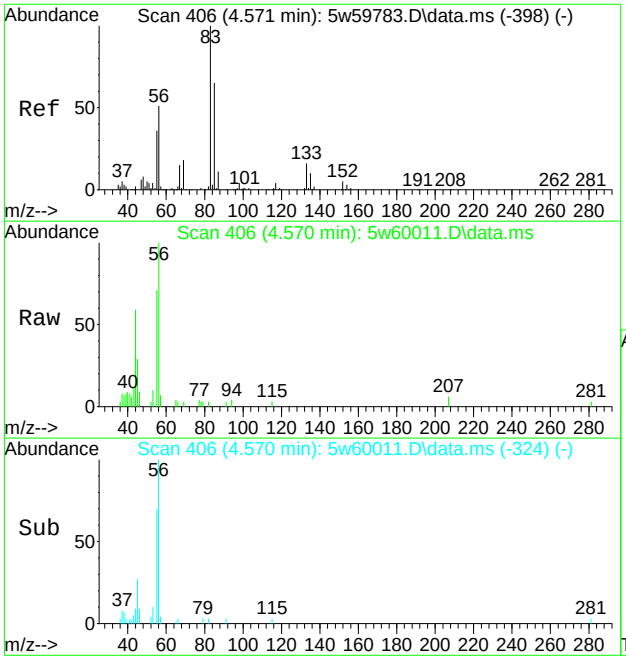


#17
ACETONITRILE
Concen: 0.1369 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 41 Resp: 3403

Ion	Ratio	Lower	Upper
41	100		
40	138.5	37.9	70.5#
39	33.9	13.4	24.8#

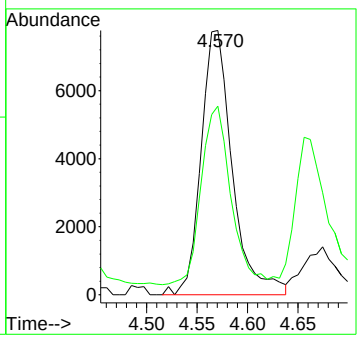


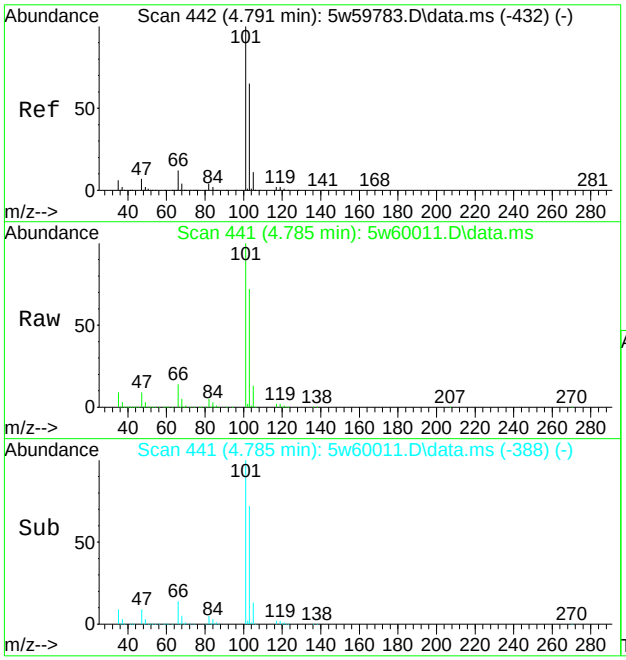


#18
ACROLEIN
Concen: 1.1868 PPBV
RT: 4.570 min Scan# 406
Delta R.T. -0.001 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 56 Resp: 16764

Ion	Ratio	Lower	Upper
56	100		
55	67.6	46.6	86.6

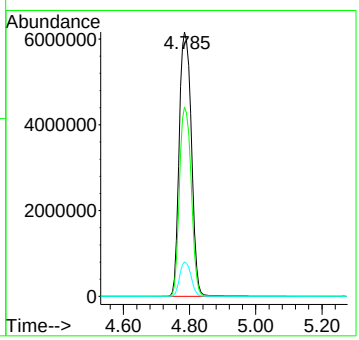


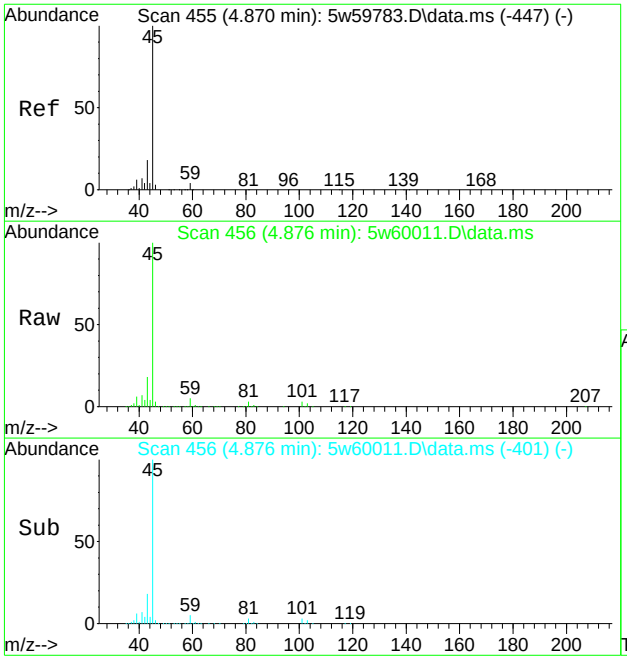


#21
TRICHLOROFLUOROMETHANE
Concen: 141.3993 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:101 Resp:15780919

Ion	Ratio	Lower	Upper
101	100		
103	69.5	35.0	95.0
105	12.2	0.0	40.7

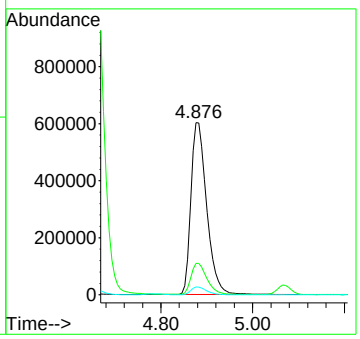


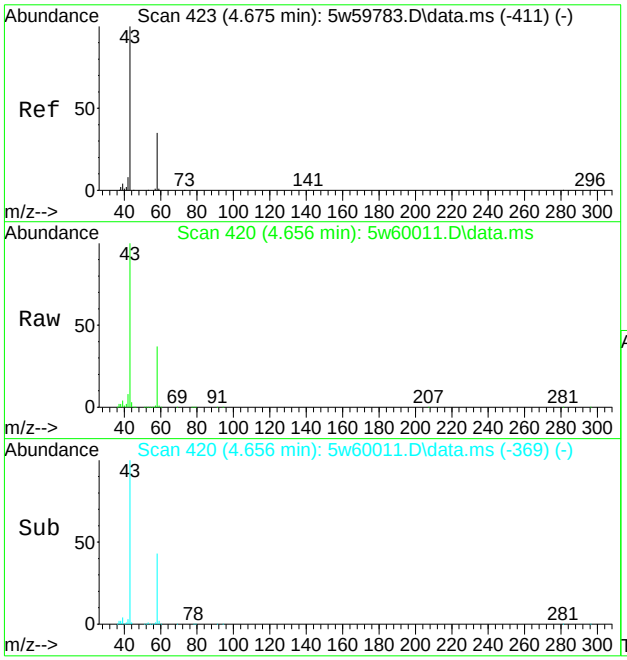


#22
ISOPROPYL ALCOHOL
Concen: 16.1244 PPBV
RT: 4.876 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 45 Resp: 1443588

Ion	Ratio	Lower	Upper
45	100		
43	18.3	0.0	47.8
59	4.6	0.0	34.1

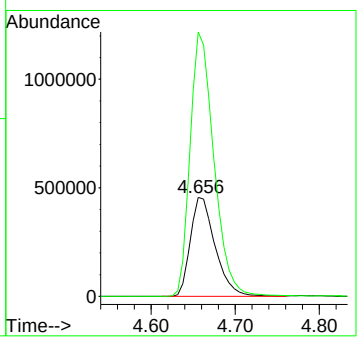


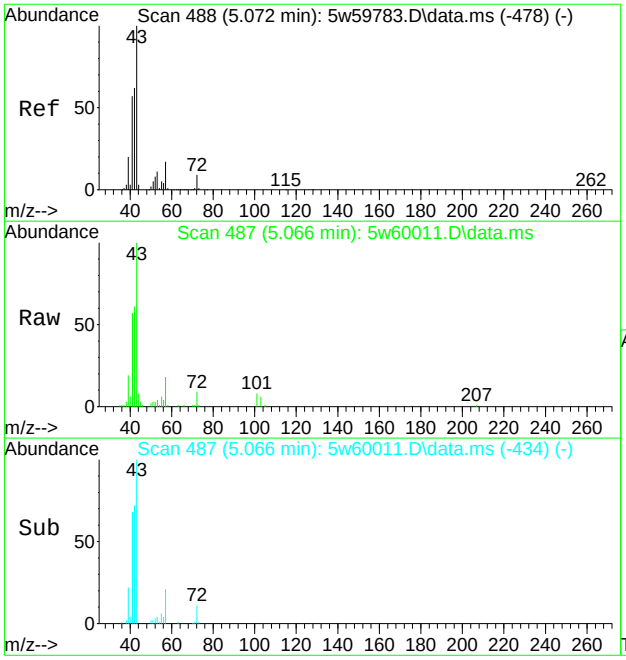


#23
ACETONE
Concen: 52.3575 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 58 Resp: 937530

Ion	Ratio	Lower	Upper
58	100		
43	256.5	252.3	312.3

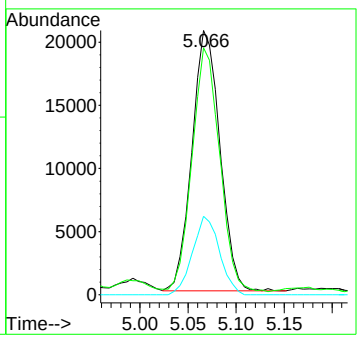


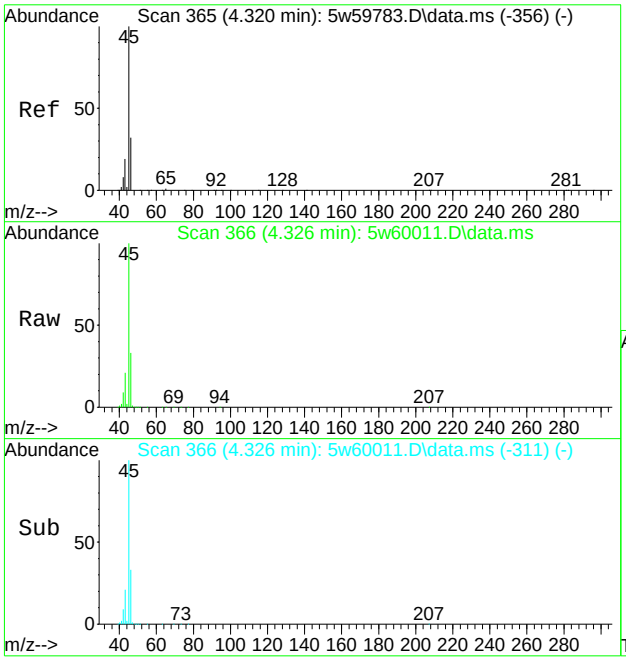


#24
PENTANE
Concen: 0.9010 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 42 Resp: 41909

Ion	Ratio	Lower	Upper
42	100		
41	91.1	62.3	122.3
57	28.8	0.0	57.7

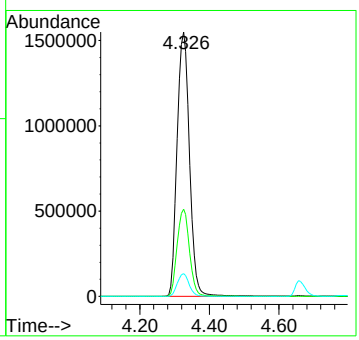


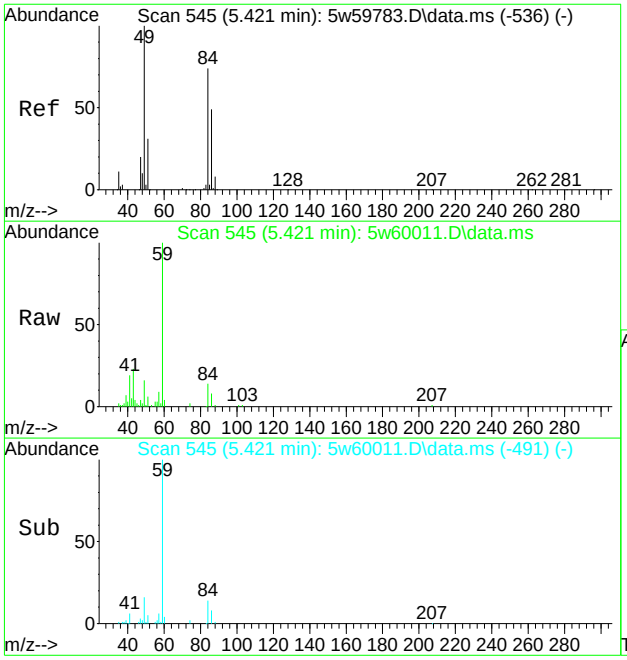


#28
ETHANOL
Concen: 257.6496 PPBV
RT: 4.326 min Scan# 366
Delta R.T. 0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 45 Resp: 3864535

Ion	Ratio	Lower	Upper
45	100		
46	33.0	2.0	62.0
42	8.3	0.0	38.5

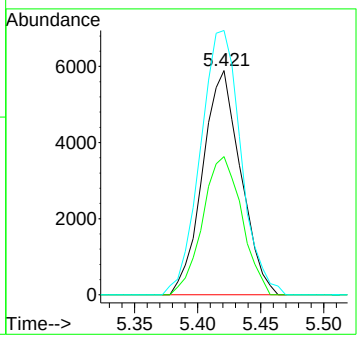


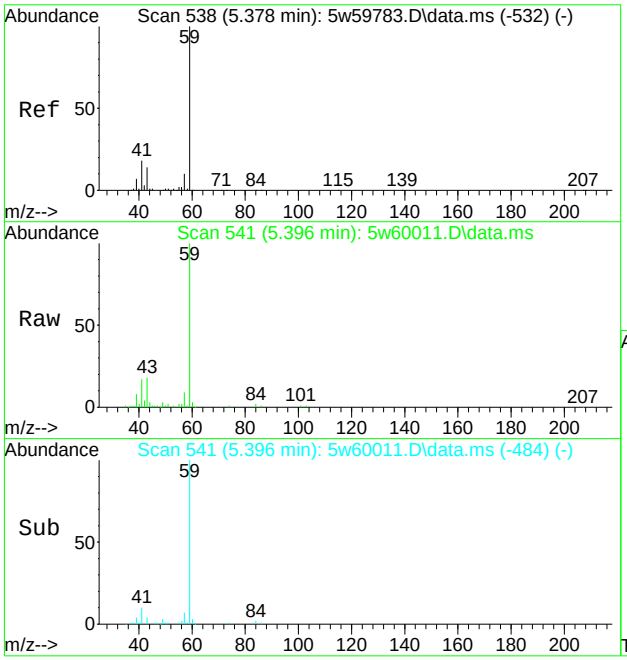


#31
METHYLENE CHLORIDE
Concen: 0.2702 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 84 Resp: 12378

Ion	Ratio	Lower	Upper
84	100		
86	63.2	35.2	95.2
49	125.5	105.3	165.3

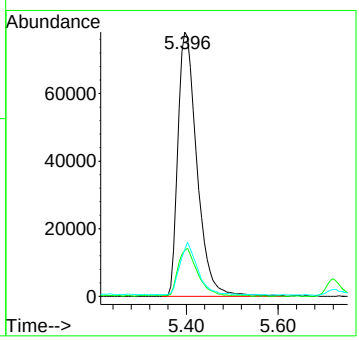


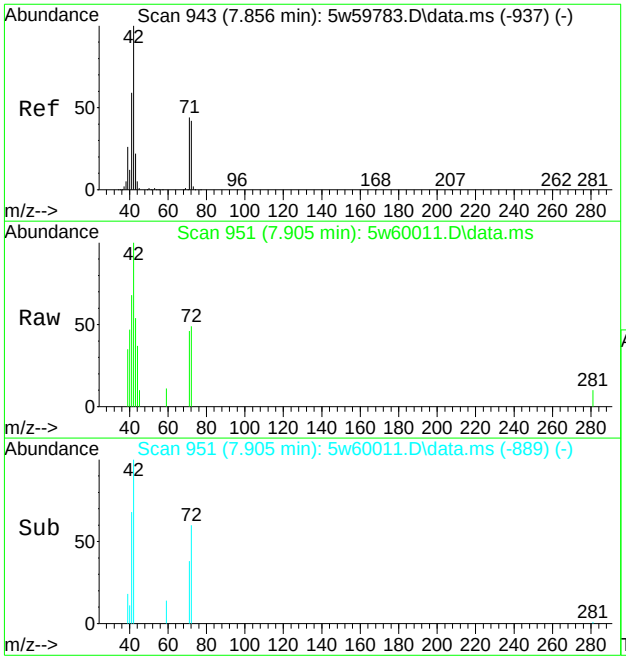


#35
TERTIARY BUTYL ALCOHOL
Concen: 2.4652 PPBV
RT: 5.396 min Scan# 541
Delta R.T. 0.018 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 59 Resp: 225682

Ion	Ratio	Lower	Upper
59	100		
41	19.0	0.0	49.3
43	19.0	0.0	44.1

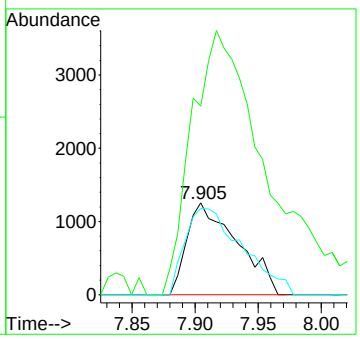


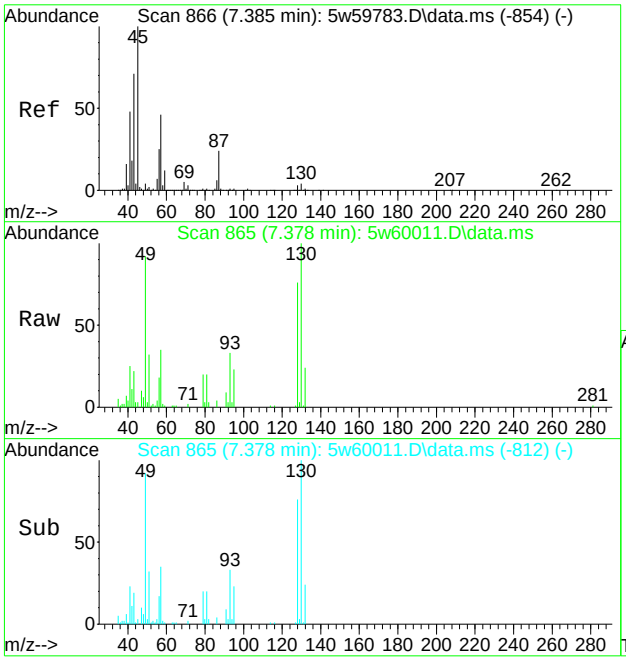


#37
TETRAHYDROFURAN
Concen: 0.1964 PPBV
RT: 7.905 min Scan# 951
Delta R.T. 0.049 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 72 Resp: 3482

Ion	Ratio	Lower	Upper
72	100		
42	466.0	202.4	262.4#
71	107.3	71.1	131.1

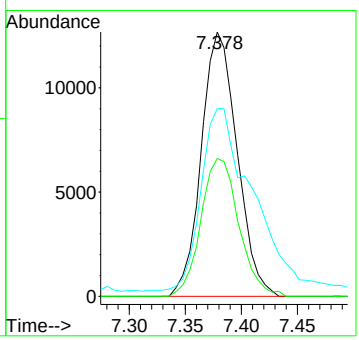


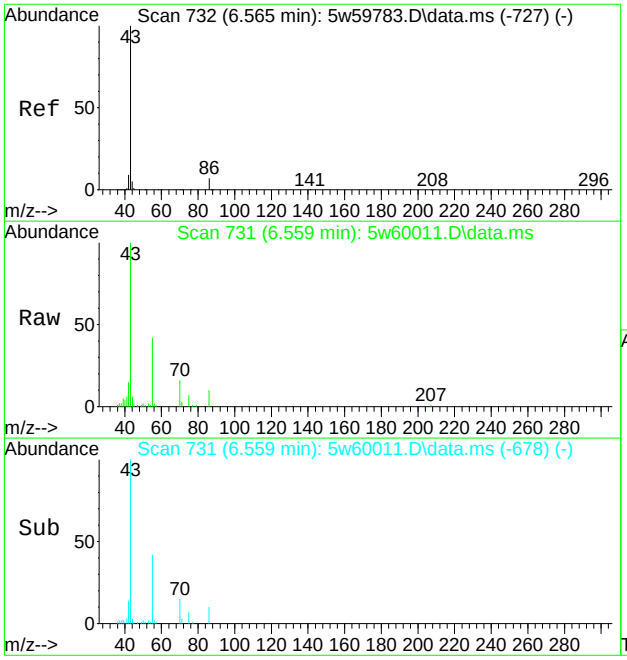


#38
HEXANE
Concen: 0.3871 PPBV
RT: 7.378 min Scan# 865
Delta R.T. -0.007 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 57 Resp: 28212

Ion	Ratio	Lower	Upper
57	100		
56	55.2	25.9	85.9
41	113.4	74.7	134.7

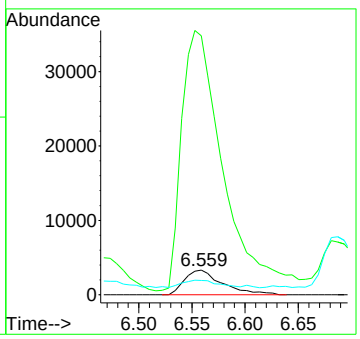


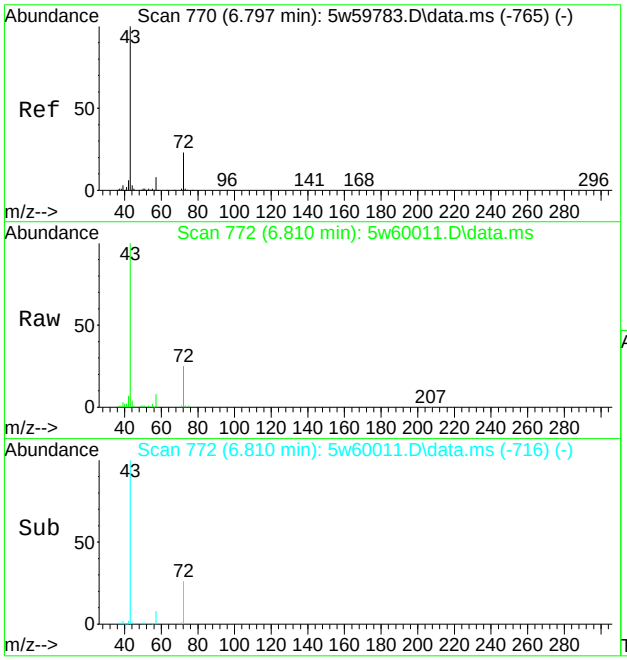


#39
VINYL ACETATE
Concen: 1.1159 PPBV
RT: 6.559 min Scan# 731
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 86 Resp: 8226

Ion	Ratio	Lower	Upper
86	100		
43	1169.3	1379.7	1439.7#
44	30.7	36.9	96.9#

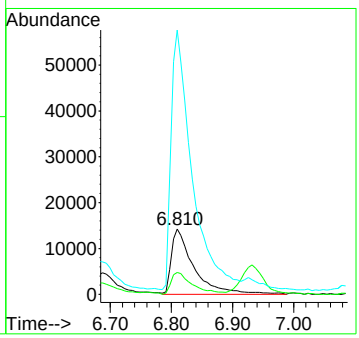


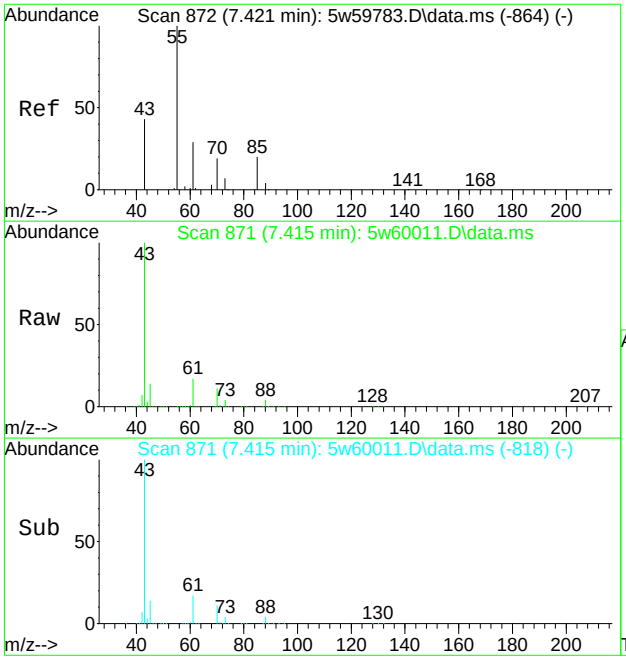


#41
METHYL ETHYL KETONE
Concen: 2.0754 PPBV
RT: 6.810 min Scan# 772
Delta R.T. 0.013 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 72 Resp: 36600

Ion	Ratio	Lower	Upper
72	100		
57	33.5	4.8	64.8
43	404.8	415.9	475.9#

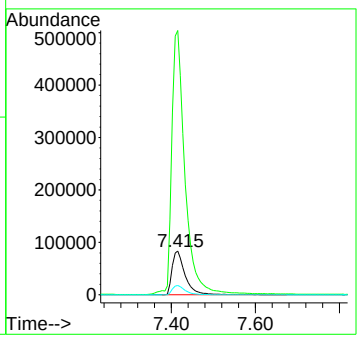


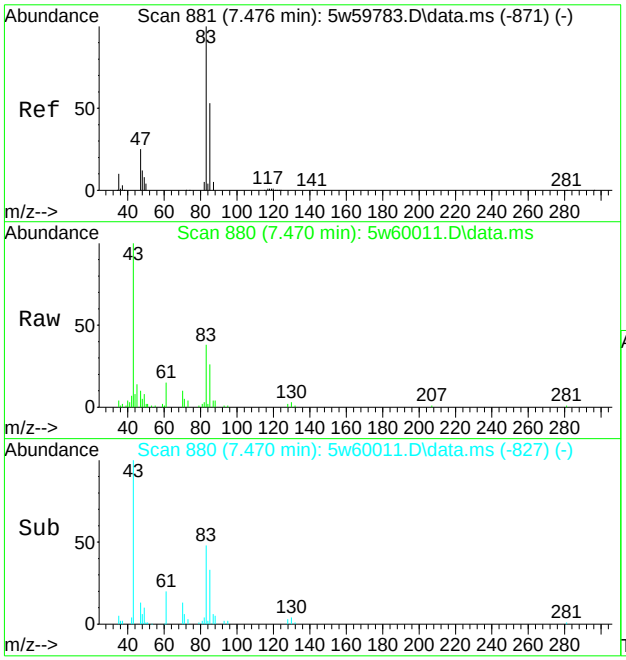


#44
ETHYL ACETATE
Concen: 13.3607 PPBV
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 61 Resp: 180040

Ion	Ratio	Lower	Upper
61	100		
43	611.9	560.5	620.5
88	21.2	4.5	64.5

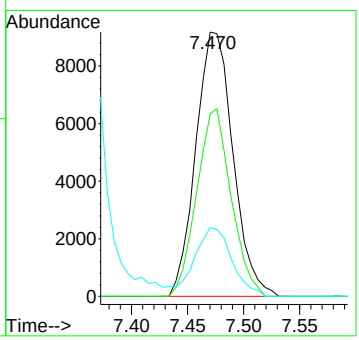


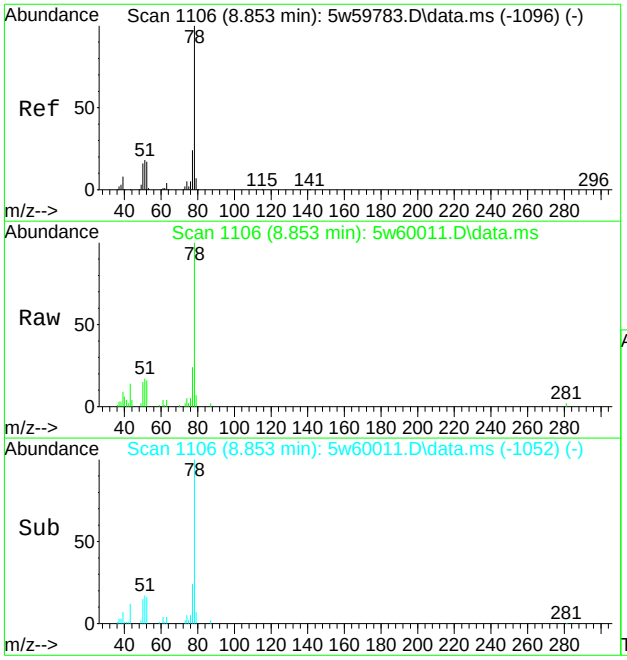


#46
CHLOROFORM
Concen: 0.2091 PPBV
RT: 7.470 min Scan# 880
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 83 Resp: 21222

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.6	95.6
47	25.7	0.0	55.2

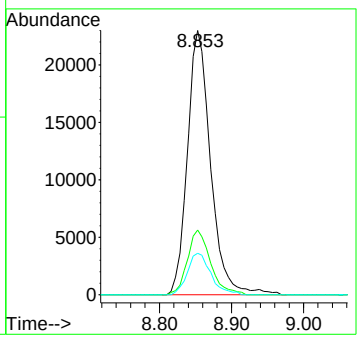


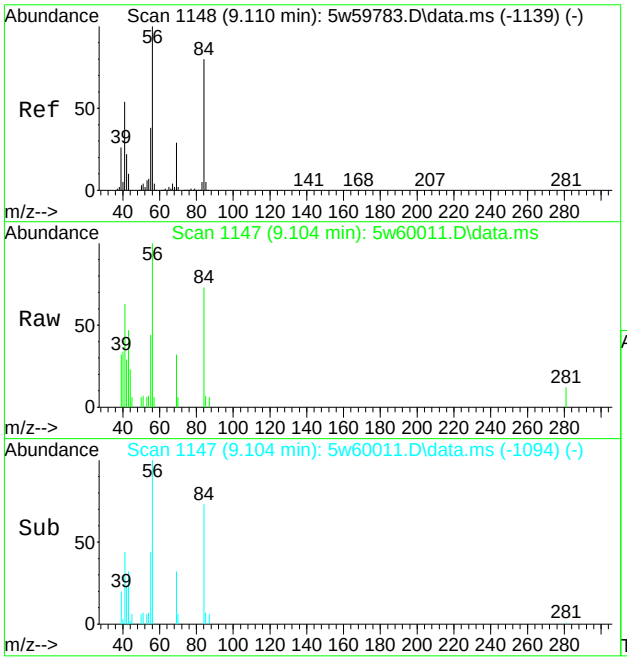


#52
BENZENE
Concen: 0.3676 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. -0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 78 Resp: 51314

Ion	Ratio	Lower	Upper
78	100		
77	24.4	0.0	53.8
52	15.9	0.0	46.9

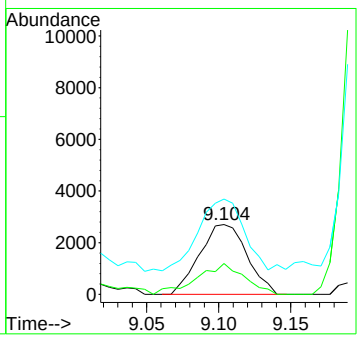


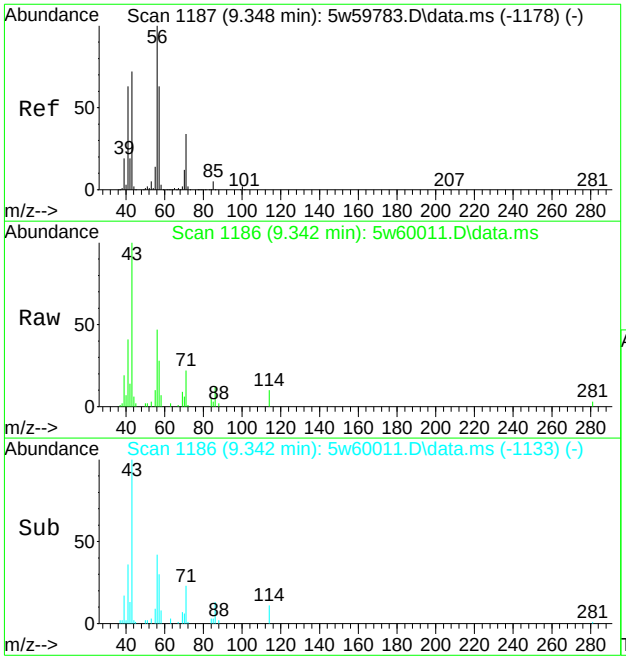


#53
CYCLOHEXANE
Concen: 0.1109 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 84 Resp: 6187

Ion	Ratio	Lower	Upper
84	100		
69	44.2	6.9	66.9
56	187.8	98.2	158.2#

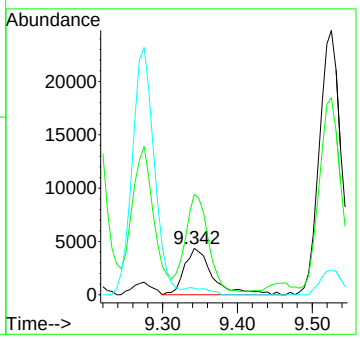


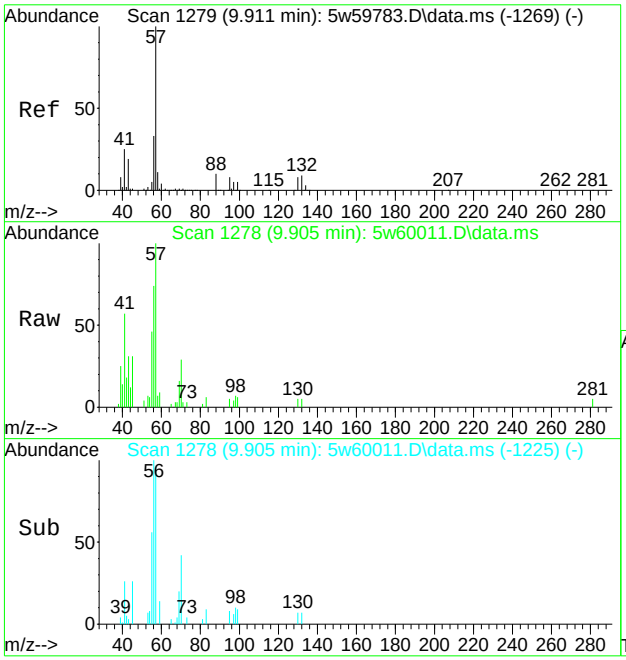


#54
2,3-DIMETHYLPENTANE
Concen: 0.4065 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 71 Resp: 11456

Ion	Ratio	Lower	Upper
71	100		
56	166.0	264.6	324.6#
85	0.0	0.0	45.3

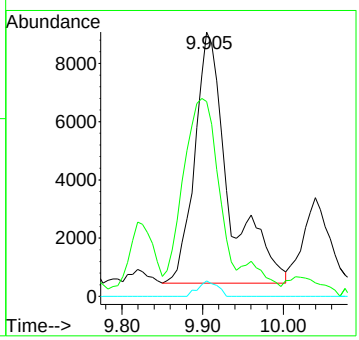


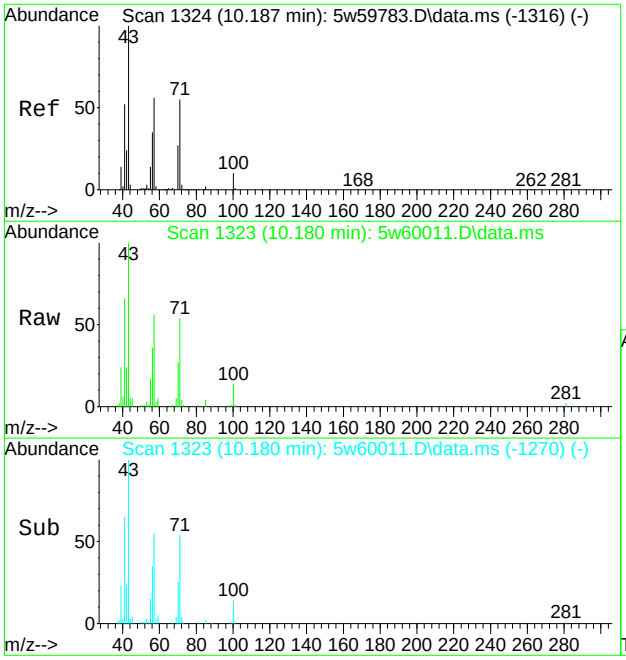


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.1141 PPBV
RT: 9.905 min Scan# 1278
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 57 Resp: 25201

Ion	Ratio	Lower	Upper
57	100		
56	84.9	2.5	62.5#
99	3.5	0.0	37.3

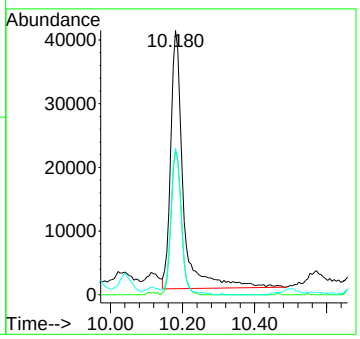


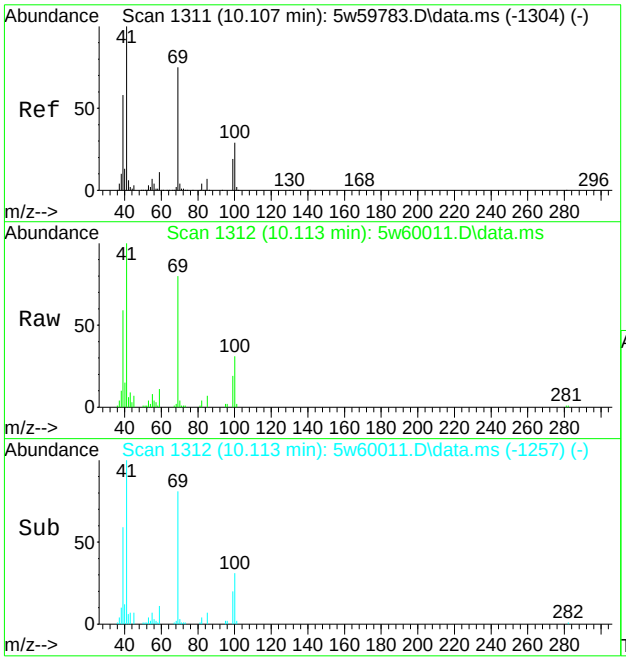


#62
HEPTANE
Concen: 1.2261 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 43 Resp: 98486

Ion	Ratio	Lower	Upper
43	100		
71	45.5	24.5	84.5
57	47.1	26.2	86.2

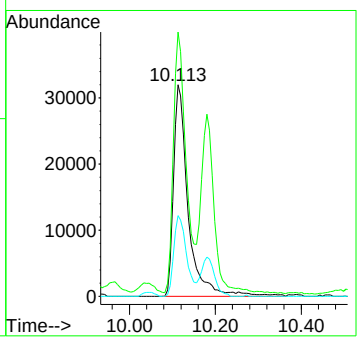


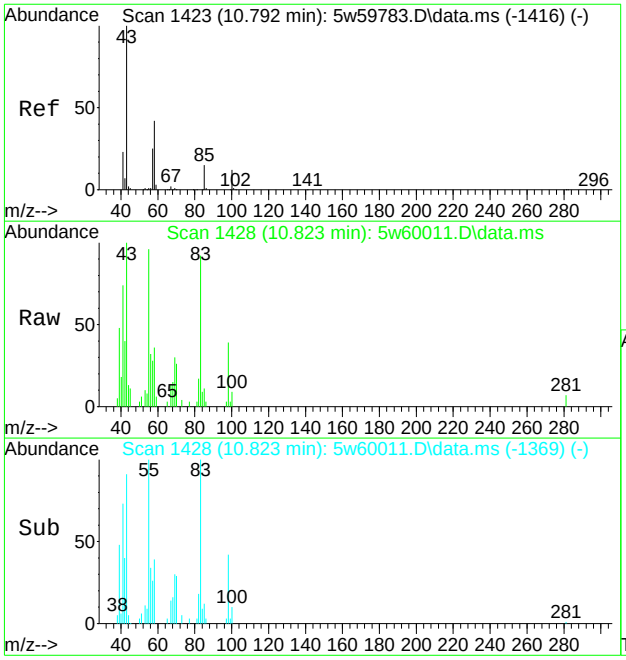


#63
METHYL METHACRYLATE
Concen: 1.6718 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 69 Resp: 76060

Ion	Ratio	Lower	Upper
69	100		
41	107.5	95.3	155.3
100	33.5	6.3	66.3

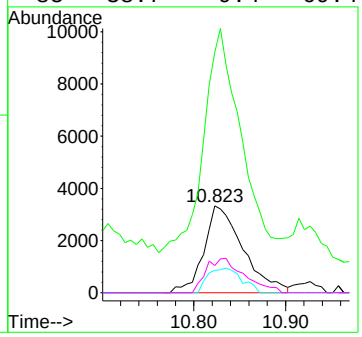


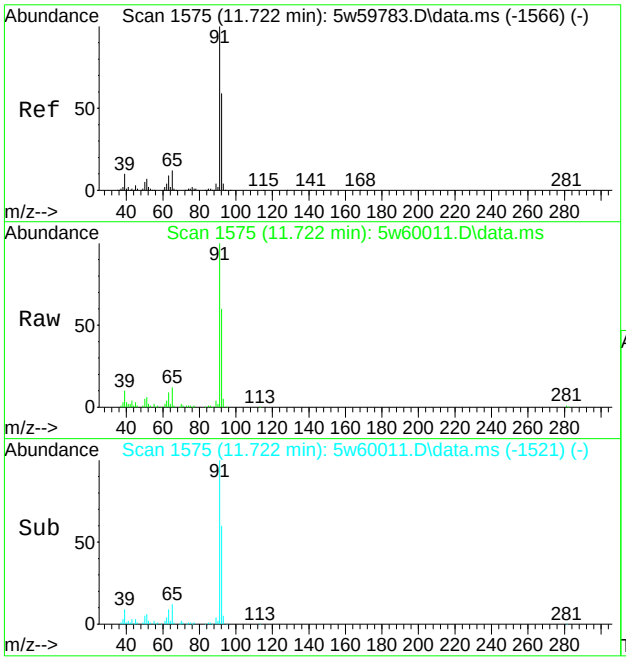


#64
METHYL ISOBUTYL KETONE
Concen: 0.2403 PPBV
RT: 10.823 min Scan# 1428
Delta R.T. 0.031 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 58 Resp: 9895

Ion	Ratio	Lower	Upper
58	100		
43	259.5	209.2	269.2
100	24.4	0.0	58.8
85	38.7	9.4	69.4

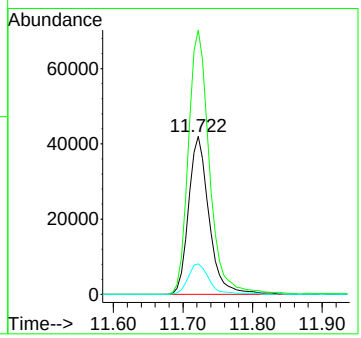


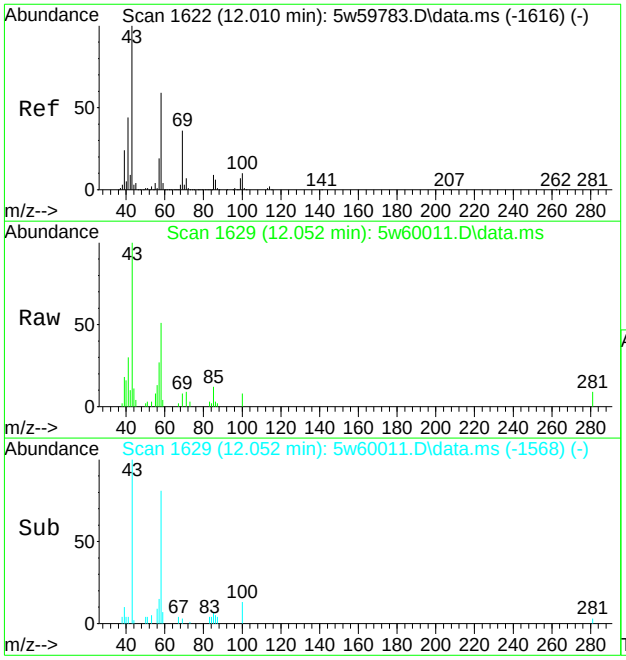


#66
TOLUENE
Concen: 0.8250 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 92 Resp: 86082

Ion	Ratio	Lower	Upper
92	100		
91	172.1	140.1	200.1
65	20.2	0.0	53.1

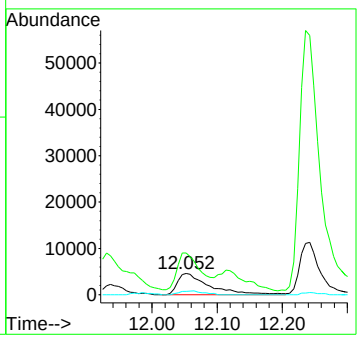


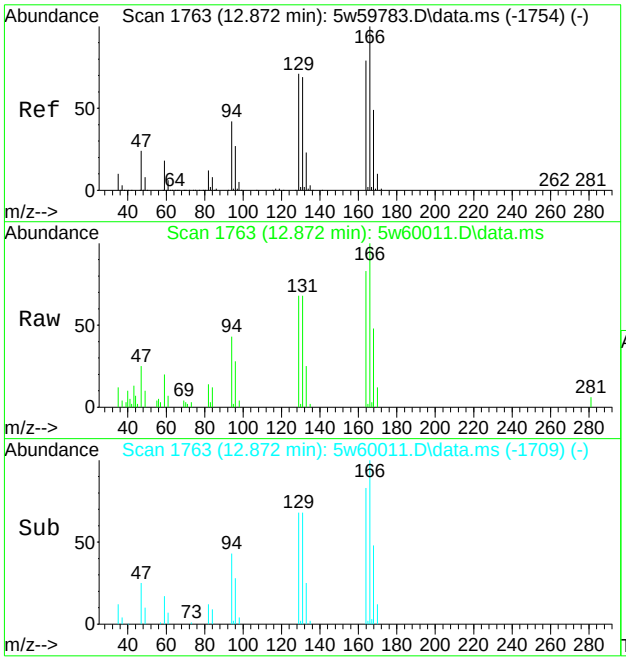


#71
2-HEXANONE
Concen: 0.2923 PPBV
RT: 12.052 min Scan# 1629
Delta R.T. 0.042 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 58 Resp: 15914

Ion	Ratio	Lower	Upper
58	100		
43	210.9	137.2	197.2#
100	13.6	0.0	46.9

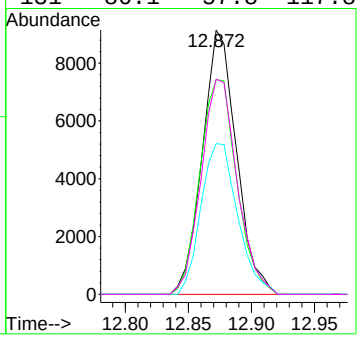


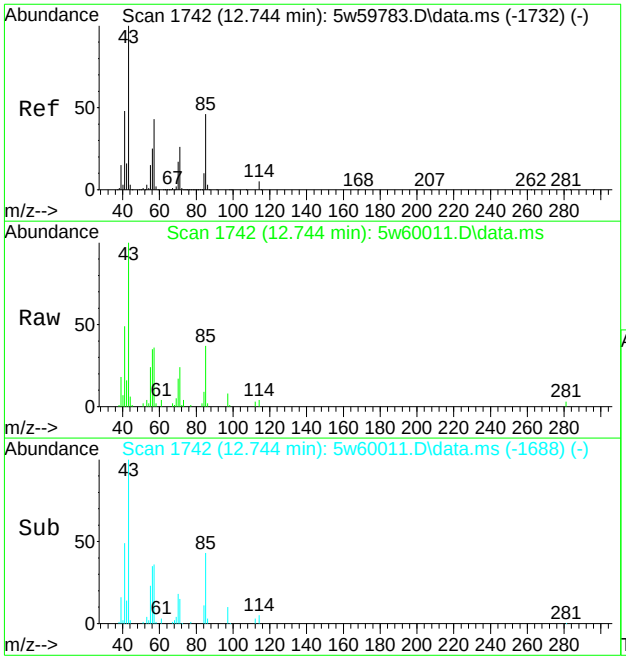


#73
TETRACHLOROETHYLENE
Concen: 0.2421 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:164 Resp: 17191

Ion	Ratio	Lower	Upper
164	100		
129	87.8	59.7	119.7
168	61.3	32.2	92.2
131	86.1	57.8	117.8

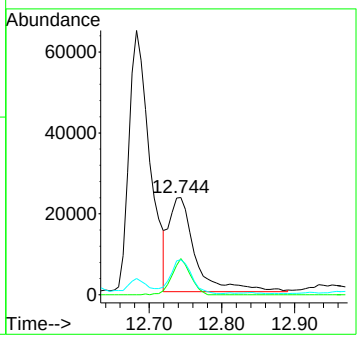


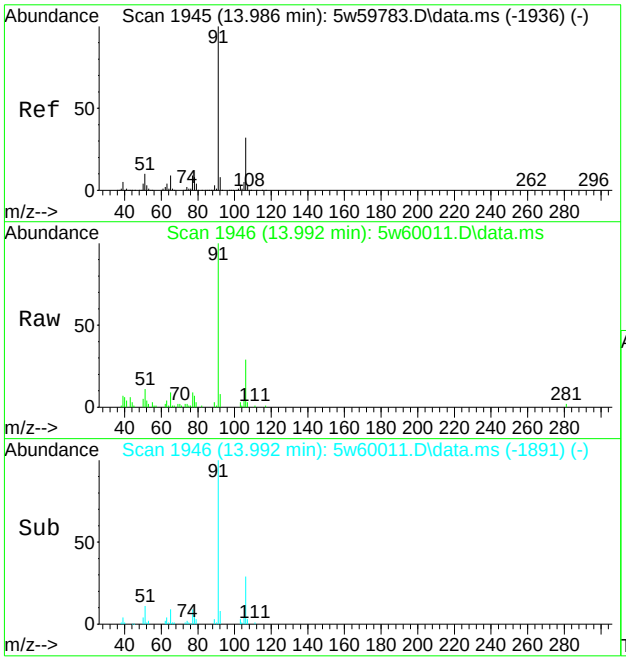


#76
OCTANE
Concen: 0.5976 PPBV m
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 43 Resp: 59081

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	11.3	13.7	73.7#

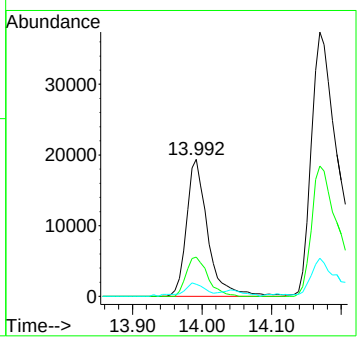


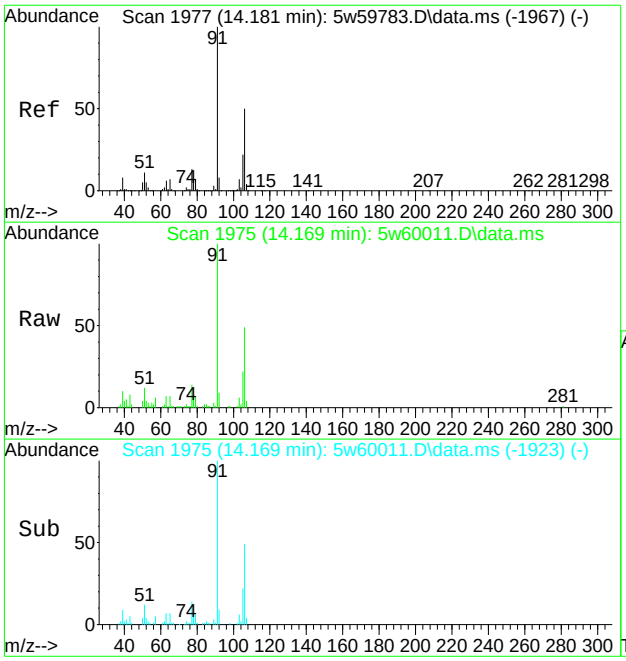


#79
ETHYLBENZENE
Concen: 0.2074 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 91 Resp: 41373

Ion	Ratio	Lower	Upper
91	100		
106	29.0	1.3	61.3
77	10.3	0.0	38.6

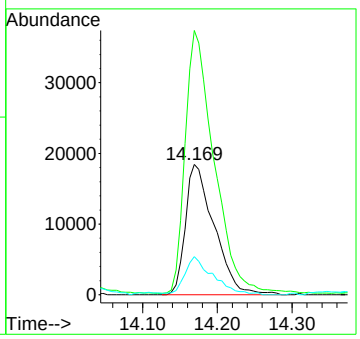


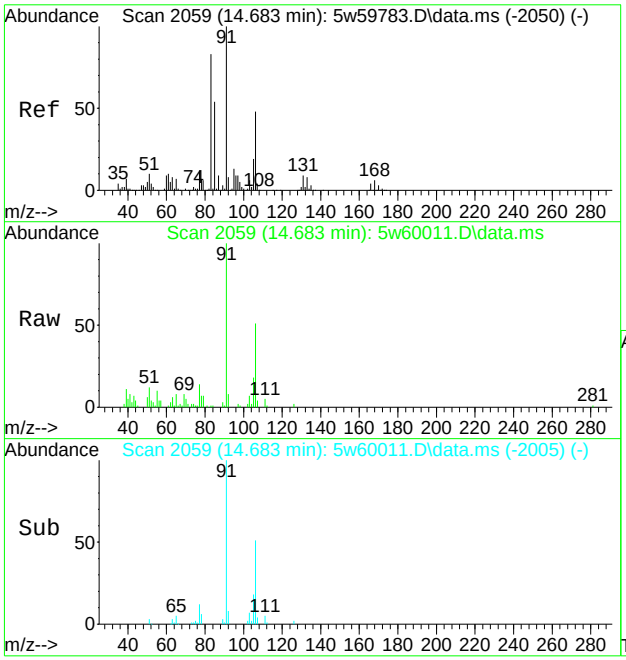


#80
m,p-XYLENE
Concen: 0.6276 PPBV
RT: 14.169 min Scan# 1975
Delta R.T. -0.012 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:106 Resp: 49345

Ion	Ratio	Lower	Upper
106	100		
91	203.0	171.0	231.0
77	29.4	0.0	56.7

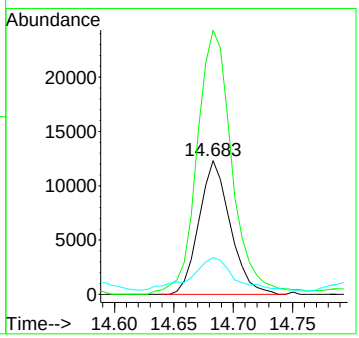


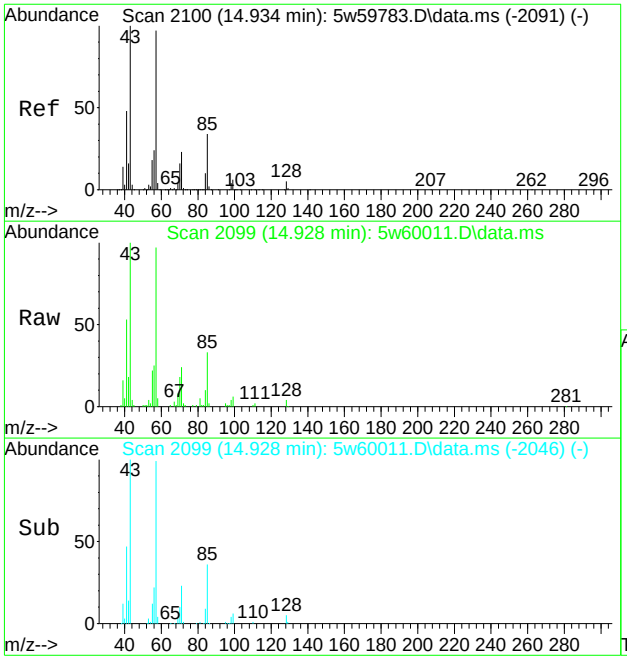


#81
o-XYLENE
Concen: 0.3060 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:106 Resp: 22526

Ion	Ratio	Lower	Upper
106	100		
91	222.6	181.6	241.6
77	46.4	0.0	56.6

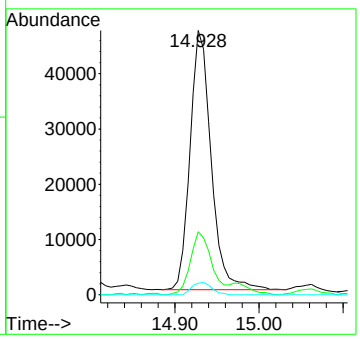


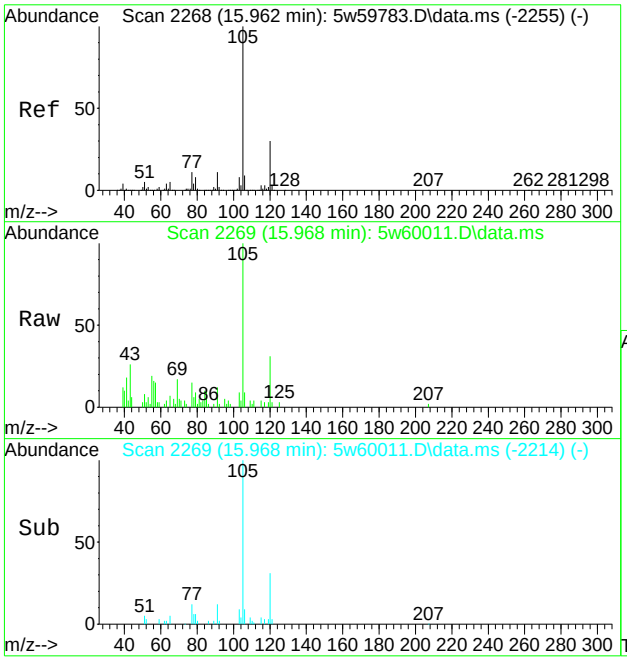


#83
NONANE
Concen: 0.8206 PPBV
RT: 14.928 min Scan# 2099
Delta R.T. -0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion: 43 Resp: 82062

Ion	Ratio	Lower	Upper
43	100		
71	28.6	0.0	52.7
128	4.5	0.0	34.7

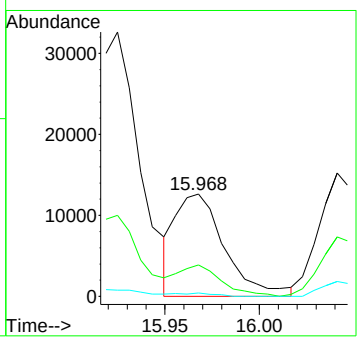


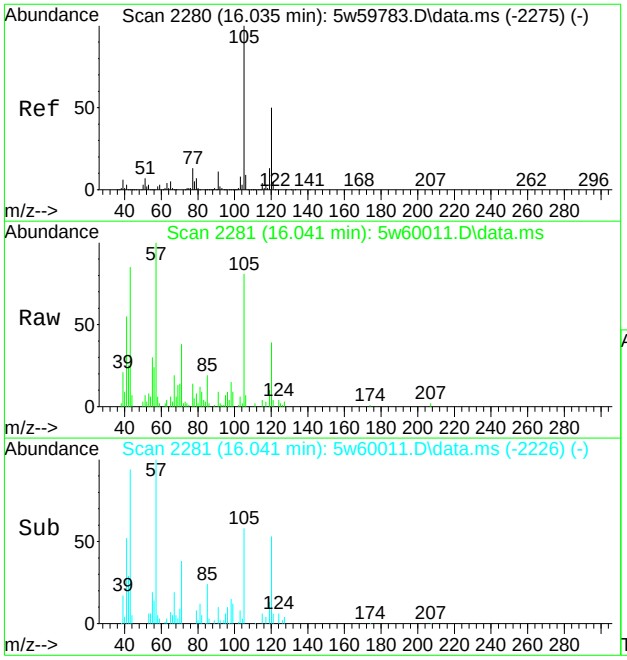


#92
4-ETHYLTOLUENE
Concen: 0.1122 PPBV m
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:105 Resp: 23139

Ion	Ratio	Lower	Upper
105	100		
120	72.5	0.0	59.9#
119	9.3	0.0	32.3

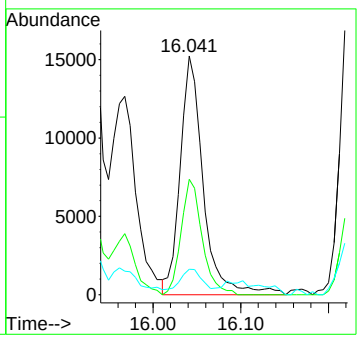


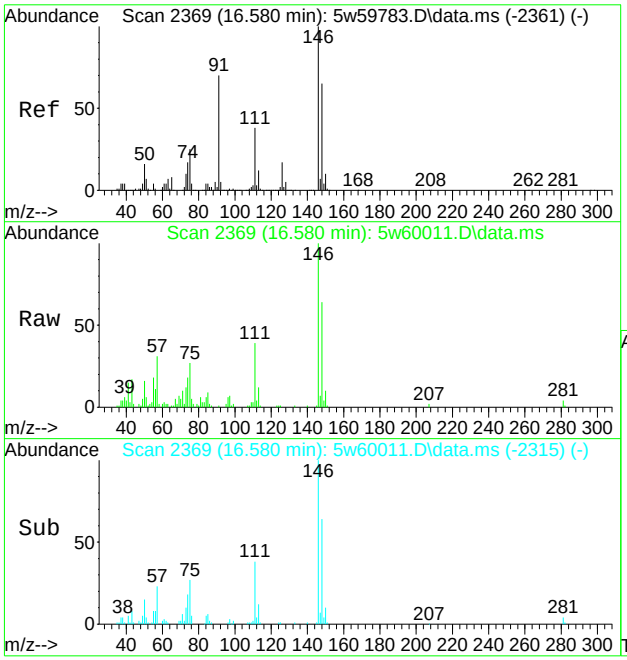


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.1450 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:105 Resp: 27790

Ion	Ratio	Lower	Upper
105	100		
120	44.1	19.4	79.4
91	6.8	0.0	40.8

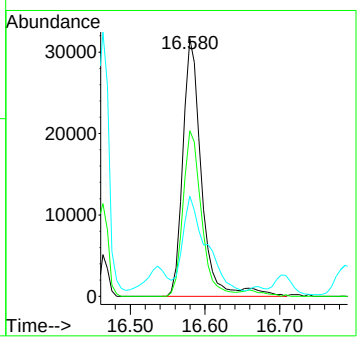


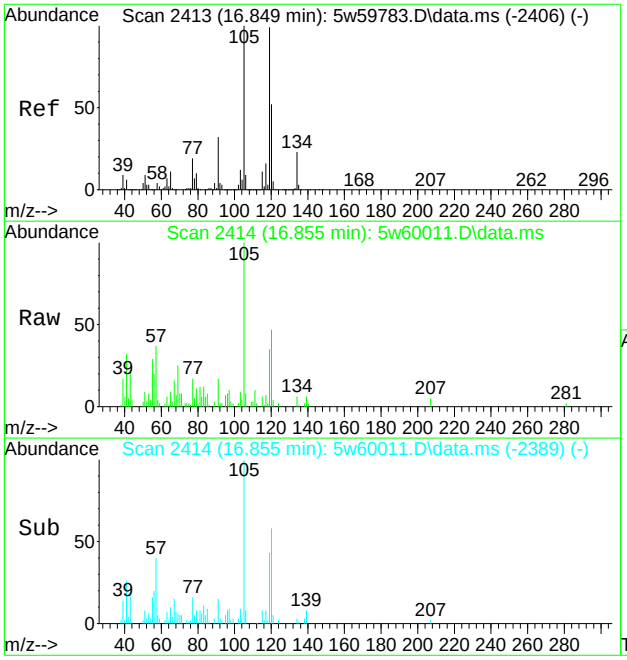


#97
m-DICHLOROBENZENE
Concen: 0.4033 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. -0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:146 Resp: 55147

Ion	Ratio	Lower	Upper
146	100		
148	66.2	34.8	94.8
111	45.3	8.2	68.2

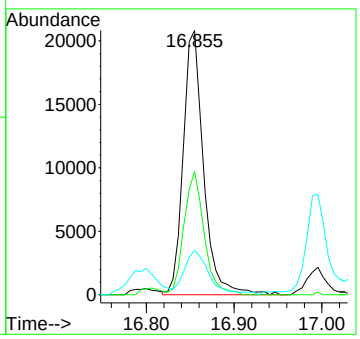


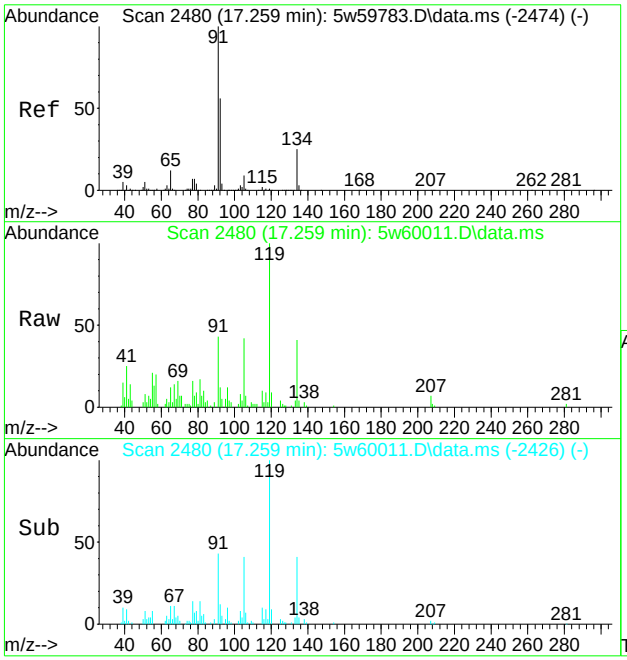


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.1775 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:105 Resp: 33587

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.5	83.5
91	20.5	7.4	67.4

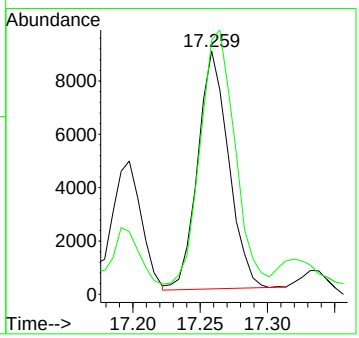


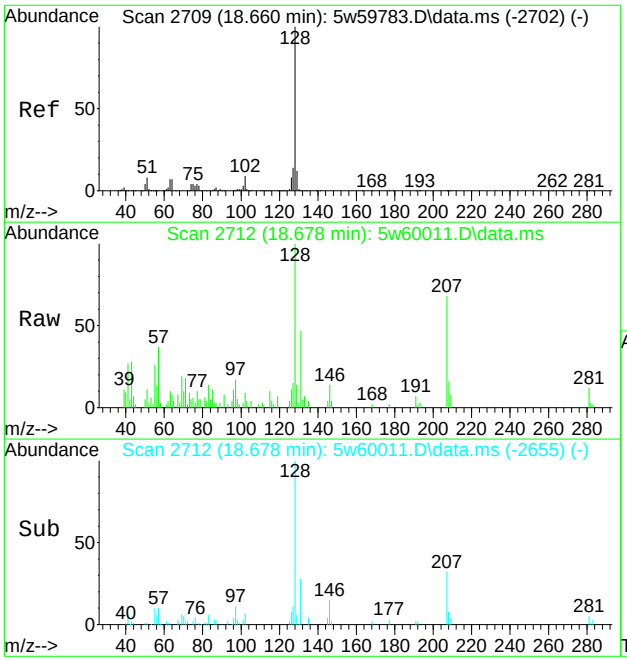


#104
n-BUTYLBENZENE
Concen: 0.2604 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:134 Resp: 14254

Ion	Ratio	Lower	Upper
134	100		
91	126.4	363.1	423.1#

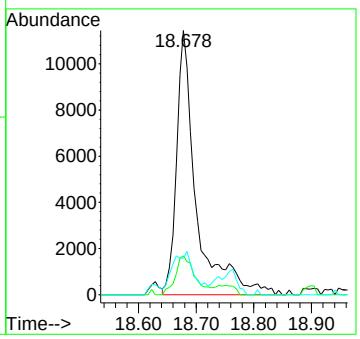




#108
NAPHTHALENE
Concen: 0.0984 PPBV
RT: 18.678 min Scan# 2712
Delta R.T. 0.018 min
Lab File: 5w60011.D
Acq: 24 Nov 2025 6:41 pm

Tgt Ion:128 Resp: 27249

Ion	Ratio	Lower	Upper
128	100		
127	18.1	0.0	43.3
129	18.3	0.0	41.4



Manual Integration Approval Summary

Sample Number: JE23791-1
Lab FileID: 5W60011.D
Injection Time: 11/24/25 18:41

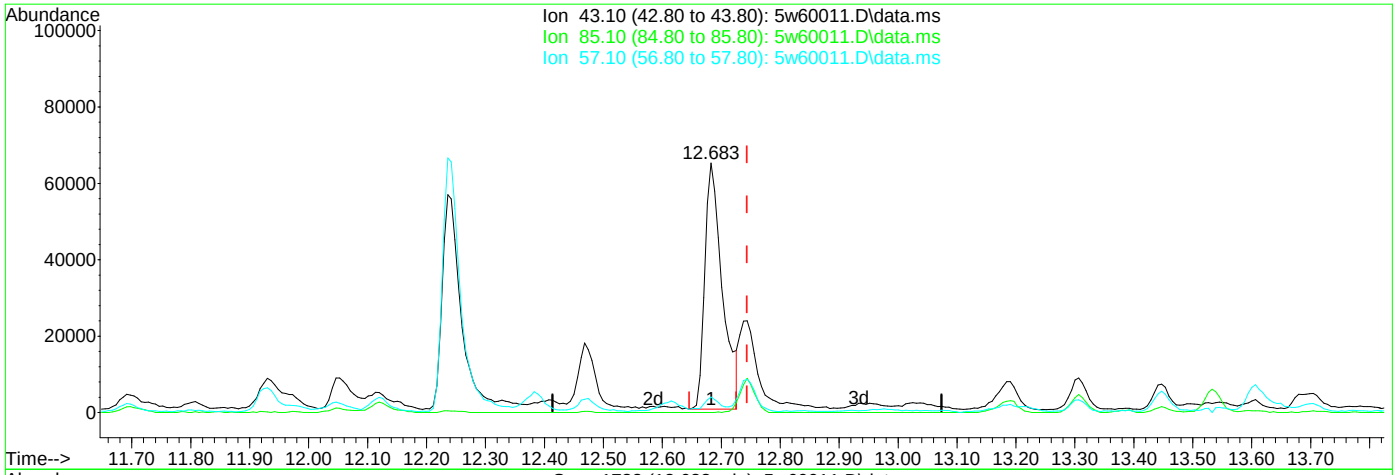
Method: TO-15
Analyst approved: 11/25/25 13:00 Claire Basilio
Supervisor approved: 11/26/25 19:10 Kanya Veerawat

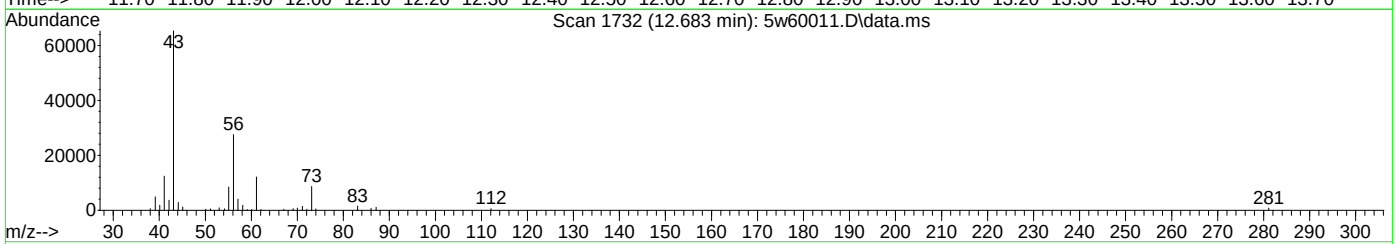
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octane	111-65-9		12.74	Missed peak
4-Ethyltoluene	622-96-8		15.97	Missed peak

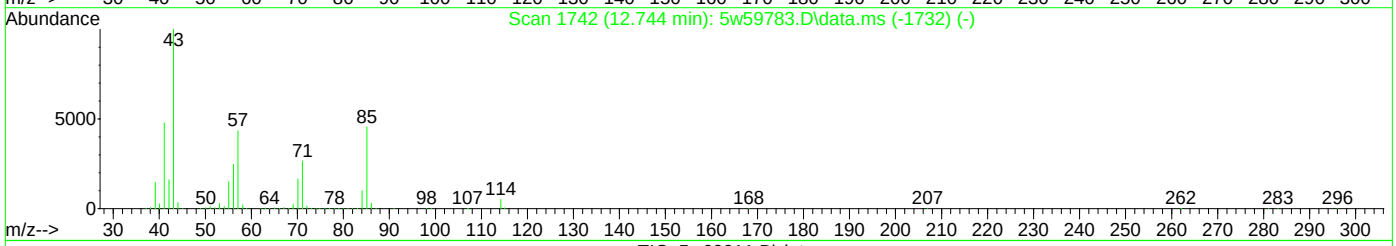
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60011.D
Acq On : 24 Nov 2025 6:41 pm
Operator : benk
Sample : je23791-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 23:53:03 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60011.D\data.ms

(76) OCTANE

12.683min (-0.061) 1.34PPBV

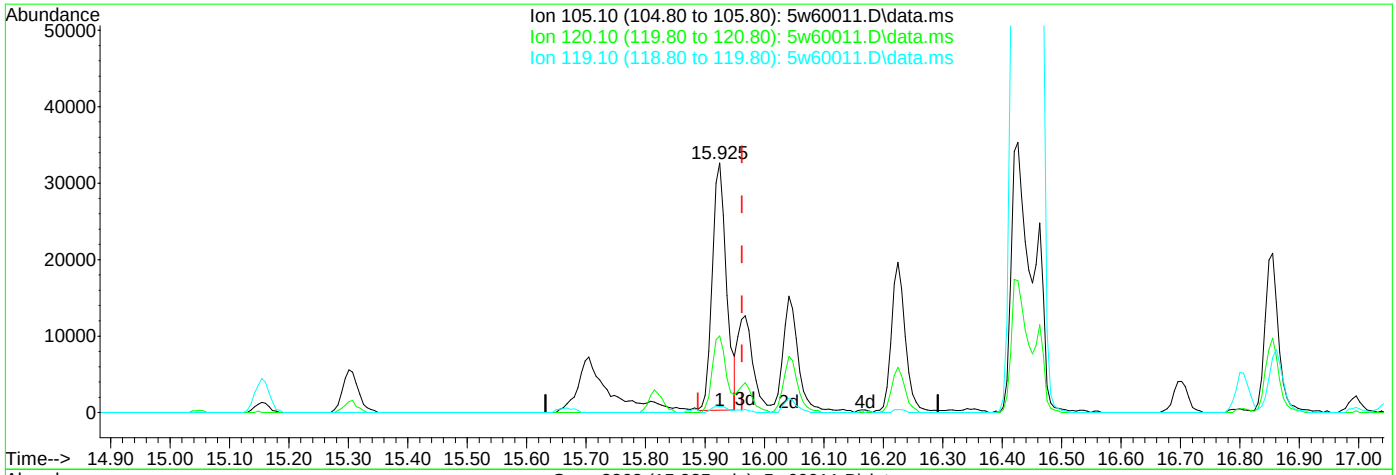
response 132897

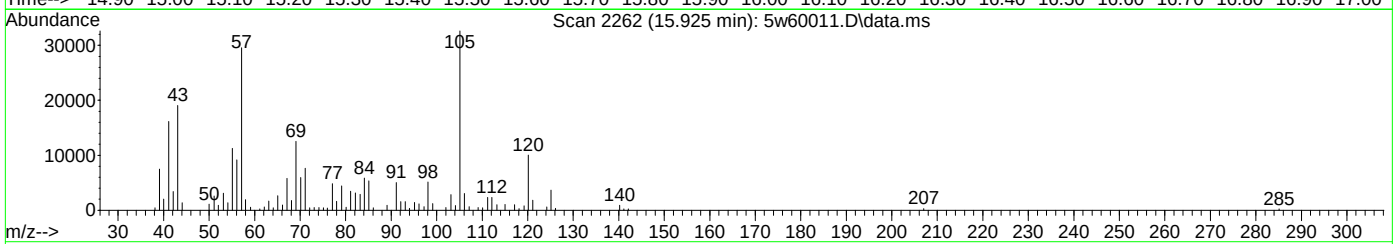
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	5.02#
0.00	0.00	0.00

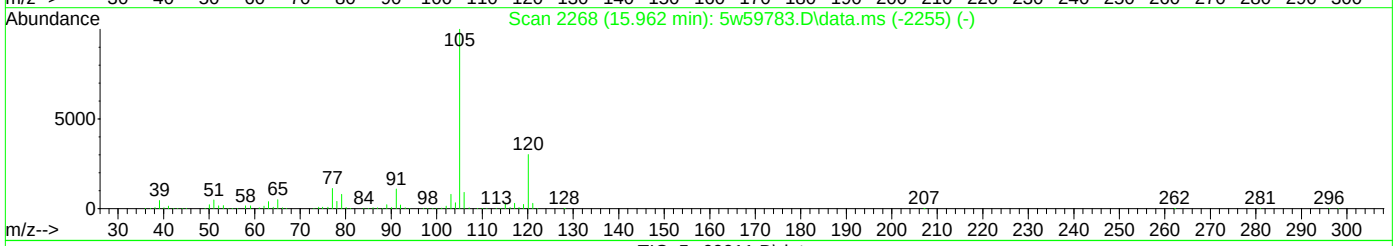
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60011.D
Acq On : 24 Nov 2025 6:41 pm
Operator : benk
Sample : je23791-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 23:55:17 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60011.D\data.ms

(92) 4-ETHYLTOLUENE

15.925min (-0.037) 0.26PPBV

response 53743

Ion	Exp%	Act%
105.10	100	100
120.10	29.90	31.22
119.10	2.30	3.99
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 19:10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60029.D
Acq On : 25 Nov 2025 7:57 am
Operator : benk
Sample : je23791-1 Inst : GCMS5W
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 26 20:58:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

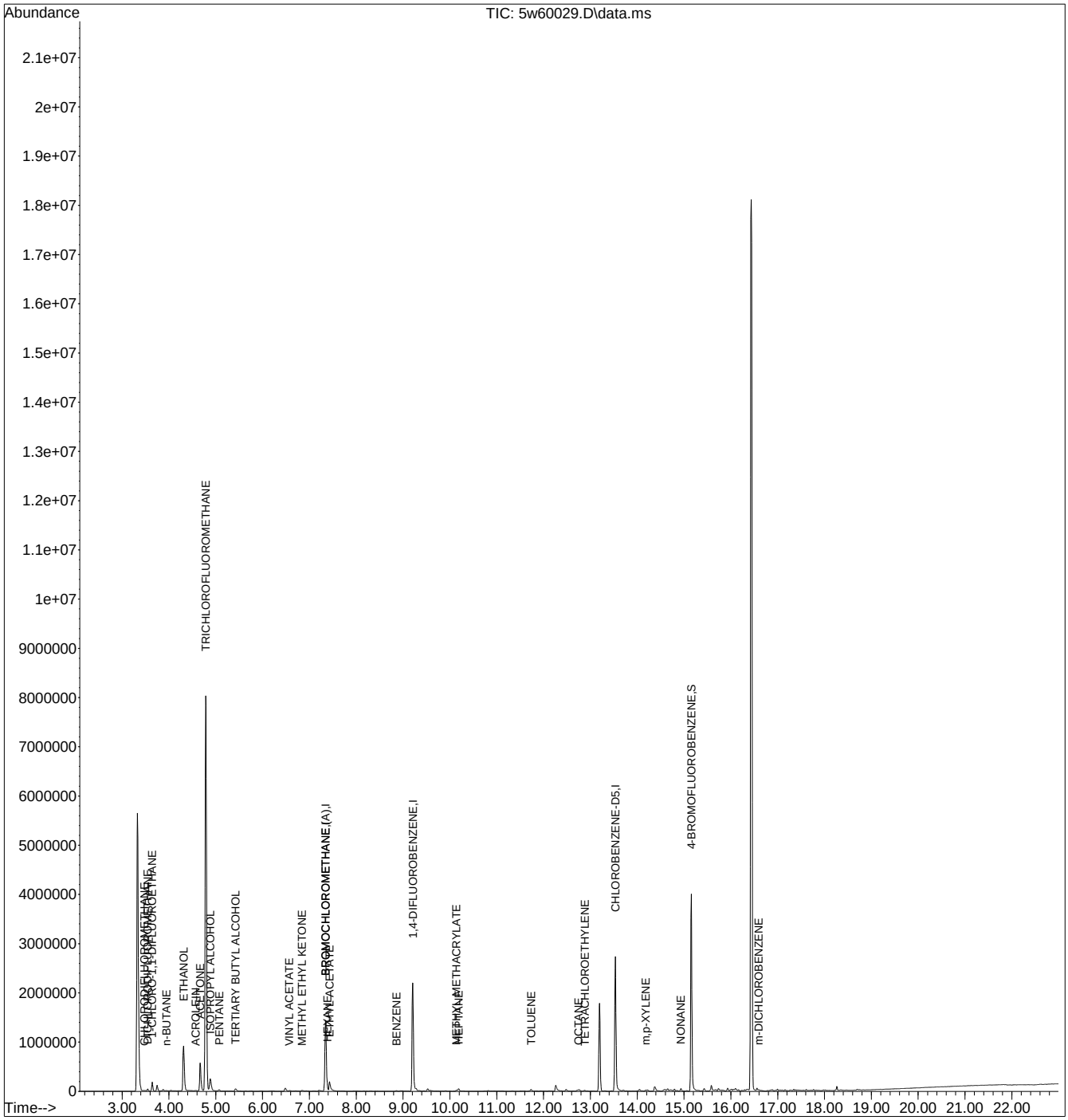
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.342	128	467512	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.208	114	2049365	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	954808	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.342	128	468654	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1353587	11.35	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 113.50%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	3.476	67	1829	0.1261	PPBV #	6
6) DICHLORODIFLUOROMETHANE	3.543	85	36590	0.2735	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	167227	1.5433	PPBV	97
13) n-BUTANE	3.947	43	6652m	0.1493	PPBV	
18) ACROLEIN	4.571	56	5773	0.3991	PPBV	89
21) TRICHLOROFLUOROMETHANE	4.785	101	7022552	61.4485	PPBV	98
22) ISOPROPYL ALCOHOL	4.883	45	388533	4.2381	PPBV	96
23) ACETONE	4.669	58	270682	14.7623	PPBV	84
24) PENTANE	5.072	42	12852	0.2698	PPBV	95
28) ETHANOL	4.314	45	1222476	79.5928	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.421	59	62882	0.6708	PPBV	88
38) HEXANE	7.385	57	9346	0.1252	PPBV #	79
39) VINYL ACETATE	6.565	86	2051	0.2717	PPBV #	45
41) METHYL ETHYL KETONE	6.840	72	8745	0.4843	PPBV #	69
44) ETHYL ACETATE	7.428	61	45426	3.2921	PPBV	98
52) BENZENE	8.859	78	13306	0.0969	PPBV	97
62) HEPTANE	10.187	43	18995m	0.2404	PPBV	
63) METHYL METHACRYLATE	10.138	69	16525	0.3693	PPBV #	56
66) TOLUENE	11.735	92	20878	0.2034	PPBV	96
73) TETRACHLOROETHYLENE	12.879	164	4042	0.0621	PPBV	95
76) OCTANE	12.750	43	42474	0.4683	PPBV #	51
80) m,p-XYLENE	14.182	106	11515	0.1597	PPBV	97
83) NONANE	14.934	43	18945	0.2065	PPBV	87
97) m-DICHLOROBENZENE	16.592	146	12489	0.0996	PPBV	89

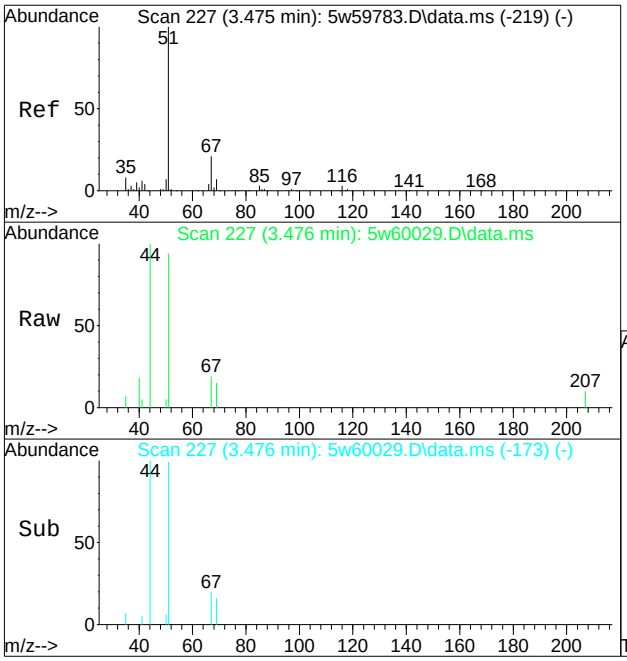
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60029.D
Acq On : 25 Nov 2025 7:57 am
Operator : benk
Sample : je23791-1 Inst : GCMS5W
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 26 20:58:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

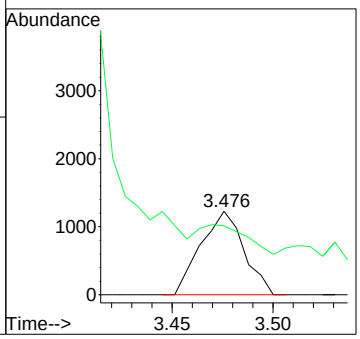


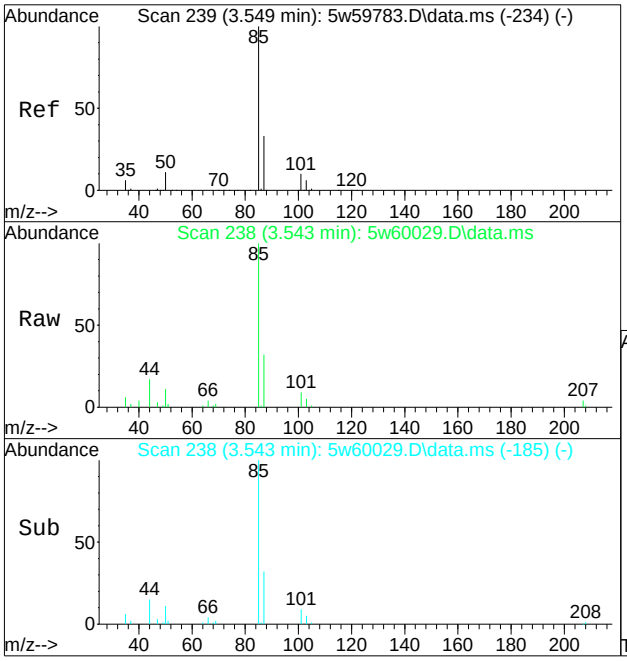


#4
CHLORODIFLUOROMETHANE
Concen: 0.1261 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 67 Resp: 1829

Ion	Ratio	Lower	Upper
67	100		
69	82.4	1.0	61.0#

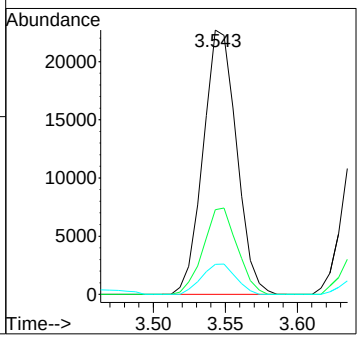


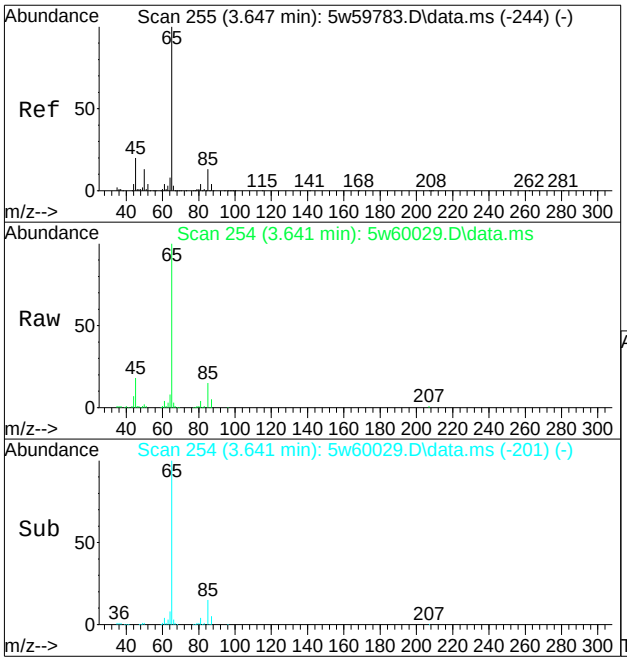


#6
DICHLORODIFLUOROMETHANE
Concen: 0.2735 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 85 Resp: 36590

Ion	Ratio	Lower	Upper
85	100		
87	33.1	2.5	62.5
50	11.7	0.0	41.7

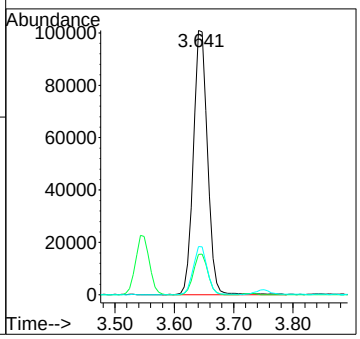


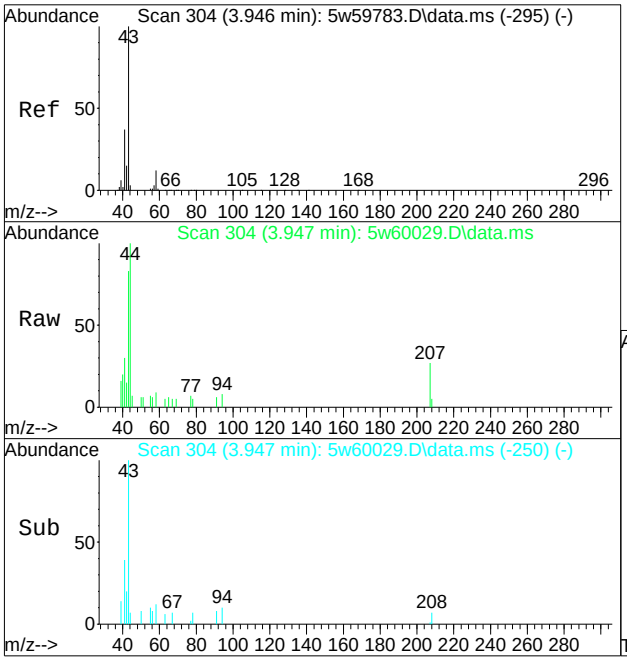


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 1.5433 PPBV
RT: 3.641 min Scan# 254
Delta R.T. -0.006 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 65 Resp: 167227

Ion	Ratio	Lower	Upper
65	100		
85	15.6	11.5	21.3
45	18.4	14.0	26.0

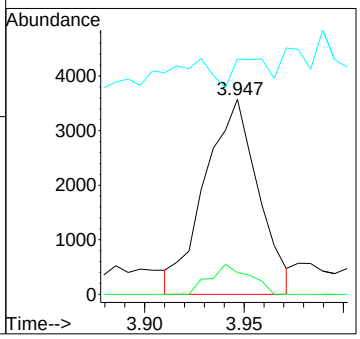


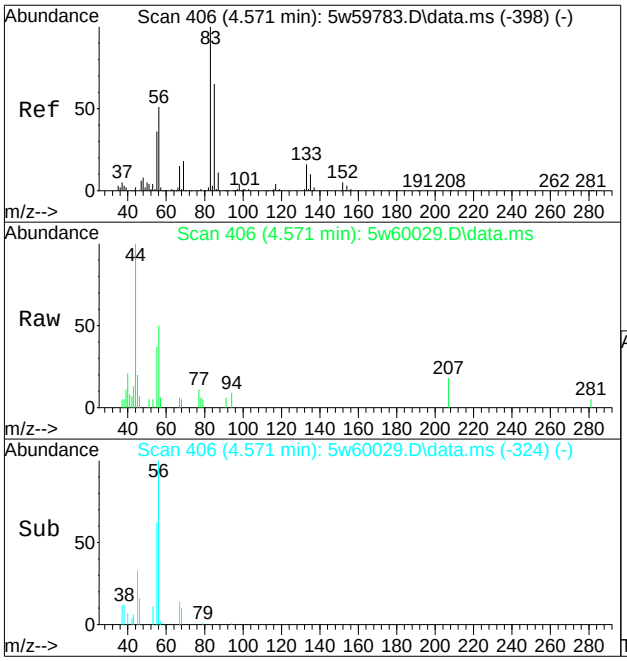


#13
n-BUTANE
Concen: 0.1493 PPBV m
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 43 Resp: 6652

Ion	Ratio	Lower	Upper
43	100		
58	11.7	0.0	42.6
44	9.5	0.0	34.9

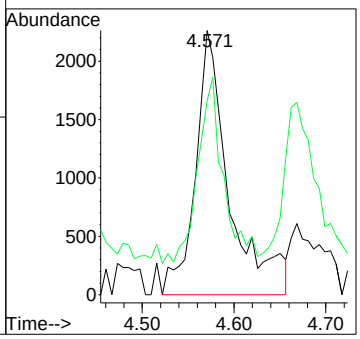


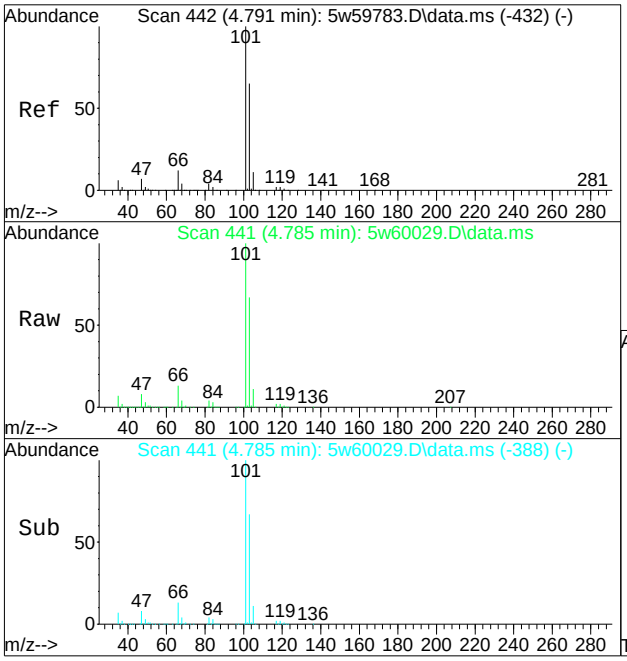


#18
ACROLEIN
Concen: 0.3991 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 56 Resp: 5773

Ion	Ratio	Lower	Upper
56	100		
55	57.8	46.6	86.6

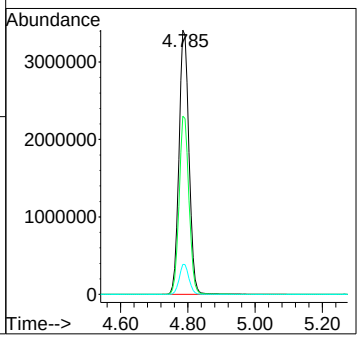


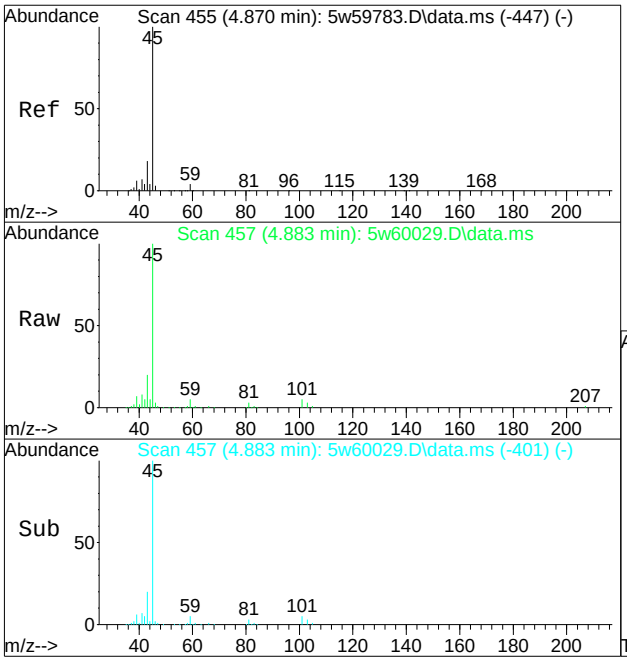


#21
TRICHLOROFLUOROMETHANE
Concen: 61.4485 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion:101 Resp: 7022552

Ion	Ratio	Lower	Upper
101	100		
103	66.6	35.0	95.0
105	11.1	0.0	40.7

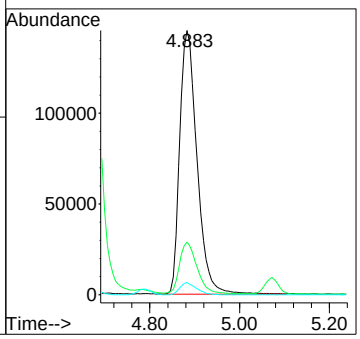


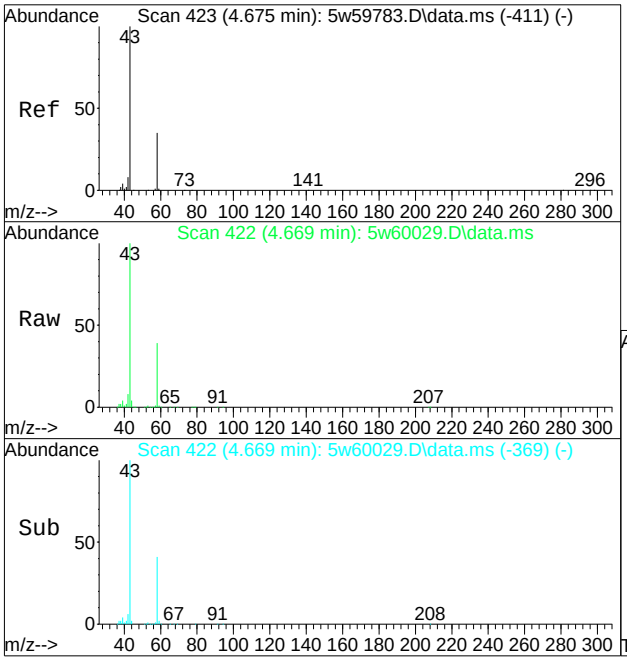


#22
ISOPROPYL ALCOHOL
Concen: 4.2381 PPBV
RT: 4.883 min Scan# 457
Delta R.T. 0.013 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 45 Resp: 388533

Ion	Ratio	Lower	Upper
45	100		
43	20.0	0.0	47.8
59	4.7	0.0	34.1

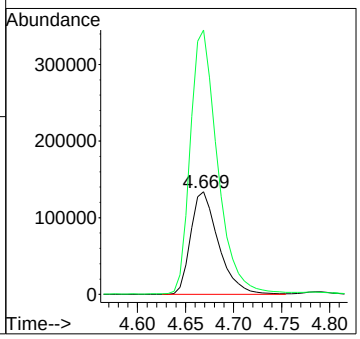


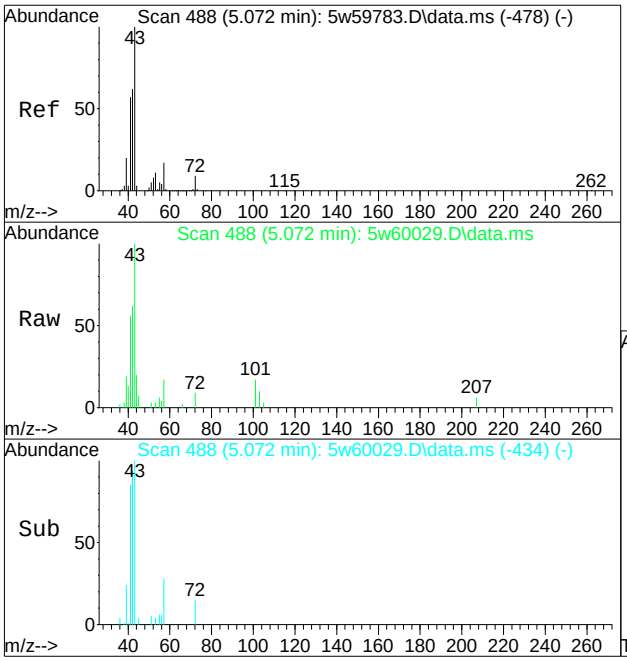


#23
ACETONE
Concen: 14.7623 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 58 Resp: 270682

Ion	Ratio	Lower	Upper
58	100		
43	252.8	252.3	312.3

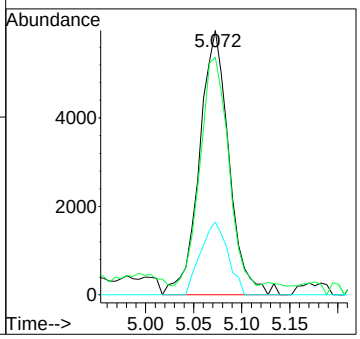


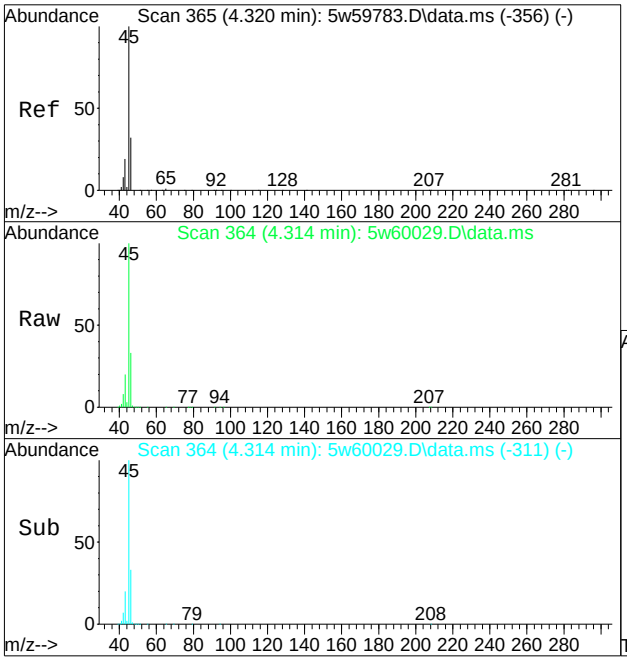


#24
PENTANE
Concen: 0.2698 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 42 Resp: 12852

Ion	Ratio	Lower	Upper
42	100		
41	97.6	62.3	122.3
57	25.2	0.0	57.7

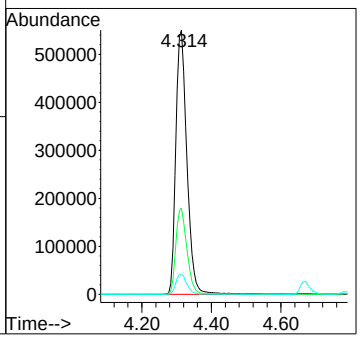


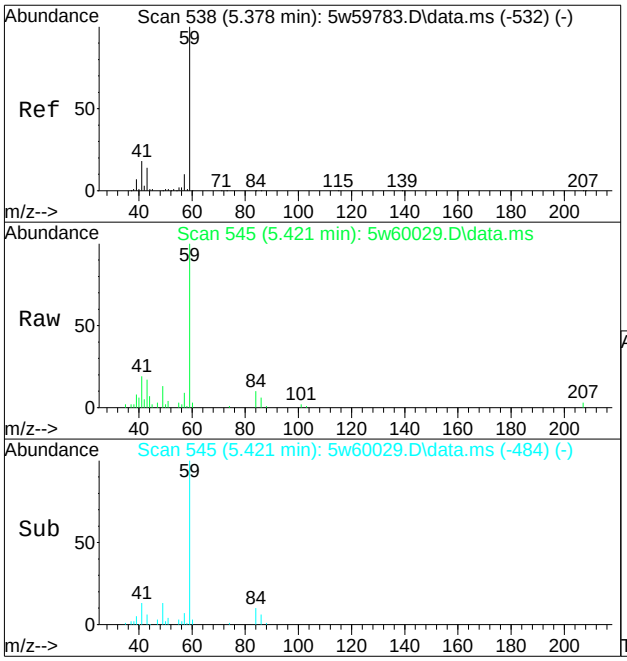


#28
ETHANOL
Concen: 79.5928 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 45 Resp: 1222476

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	7.6	0.0	38.5

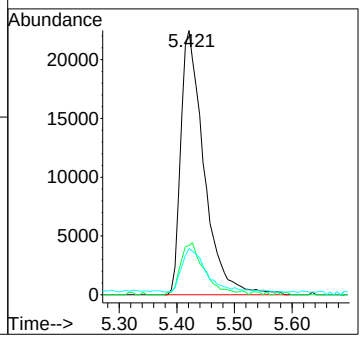


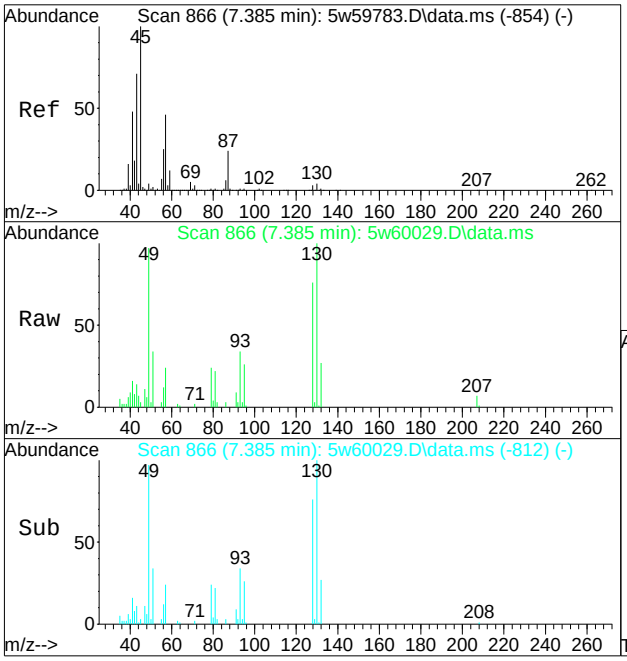


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.6708 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.043 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 59 Resp: 62882

Ion	Ratio	Lower	Upper
59	100		
41	20.5	0.0	49.3
43	24.1	0.0	44.1

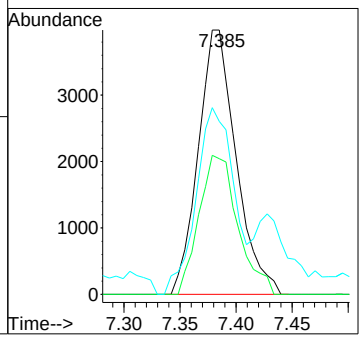


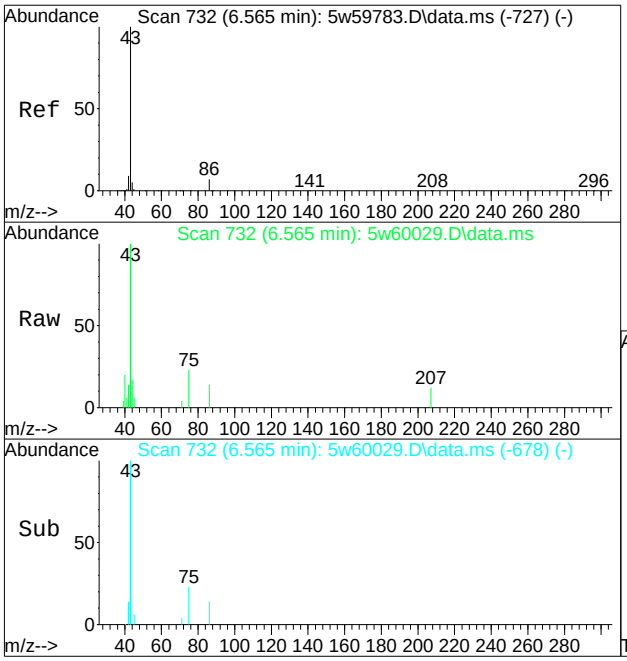


#38
HEXANE
Concen: 0.1252 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 57 Resp: 9346

Ion	Ratio	Lower	Upper
57	100		
56	53.8	25.9	85.9
41	73.3	74.7	134.7#

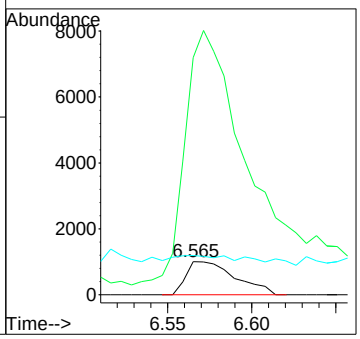


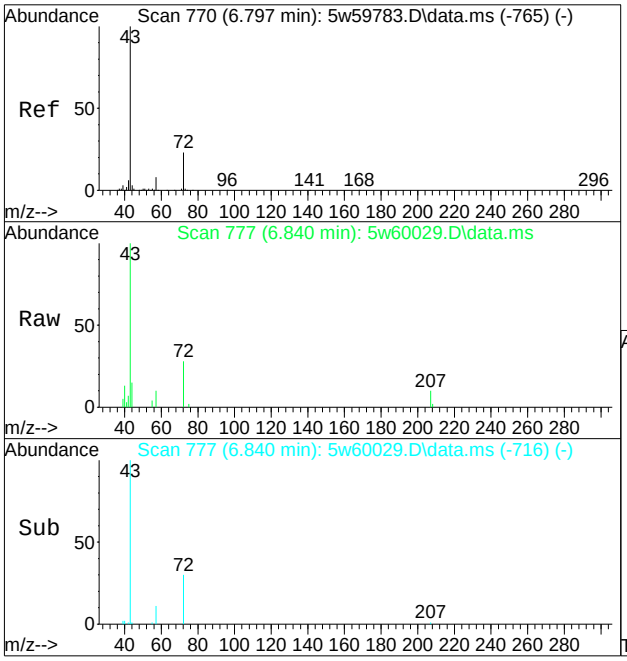


#39
VINYL ACETATE
Concen: 0.2717 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.000 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 86 Resp: 2051

Ion	Ratio	Lower	Upper
86	100		
43	1105.9	1379.7	1439.7#
44	0.0	36.9	96.9#

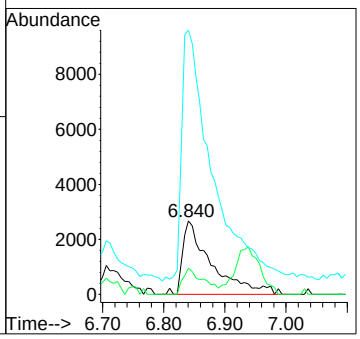


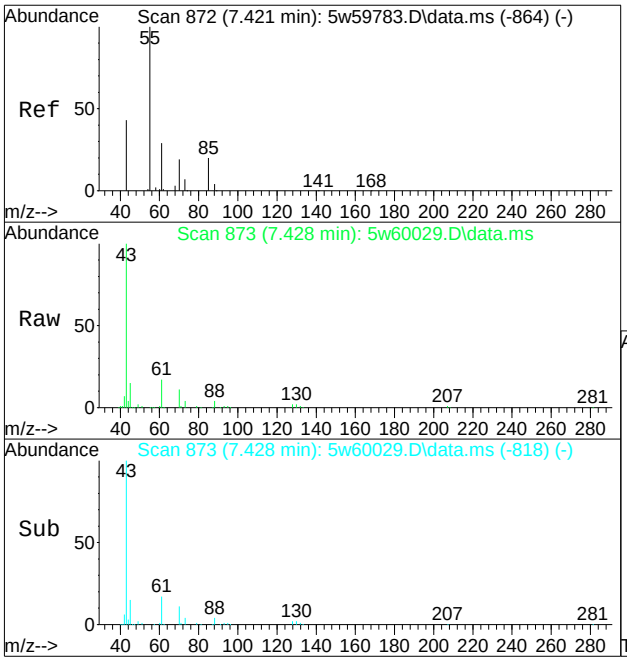


#41
METHYL ETHYL KETONE
Concen: 0.4843 PPBV
RT: 6.840 min Scan# 777
Delta R.T. 0.043 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 72 Resp: 8745

Ion	Ratio	Lower	Upper
72	100		
57	35.7	4.8	64.8
43	359.8	415.9	475.9#

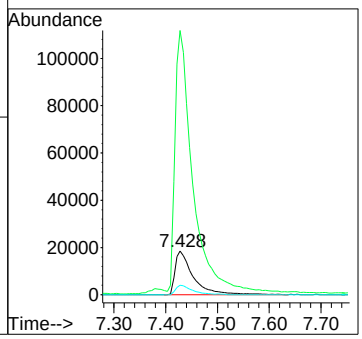


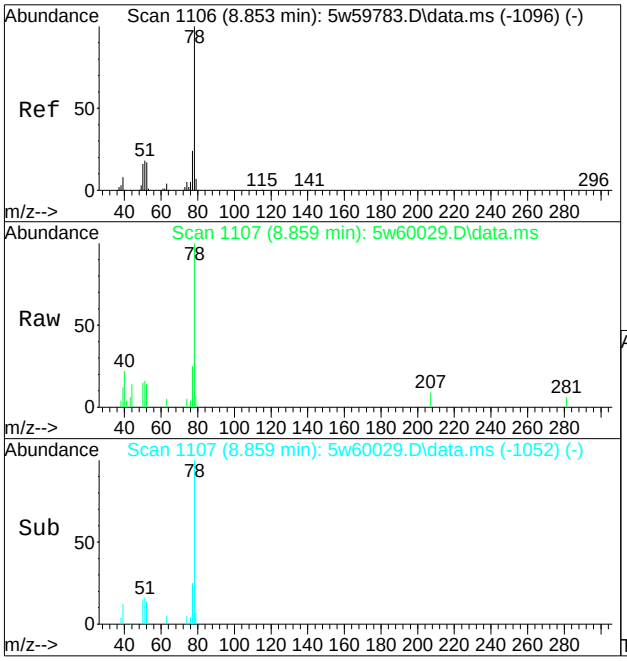


#44
ETHYL ACETATE
Concen: 3.2921 PPBV
RT: 7.428 min Scan# 873
Delta R.T. 0.007 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 61 Resp: 45426

Ion	Ratio	Lower	Upper
61	100		
43	593.8	560.5	620.5
88	20.8	4.5	64.5

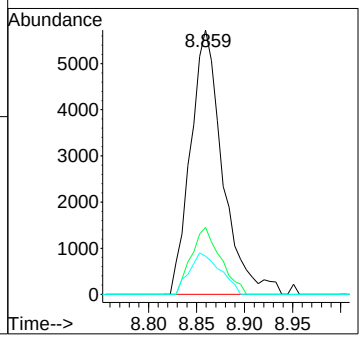


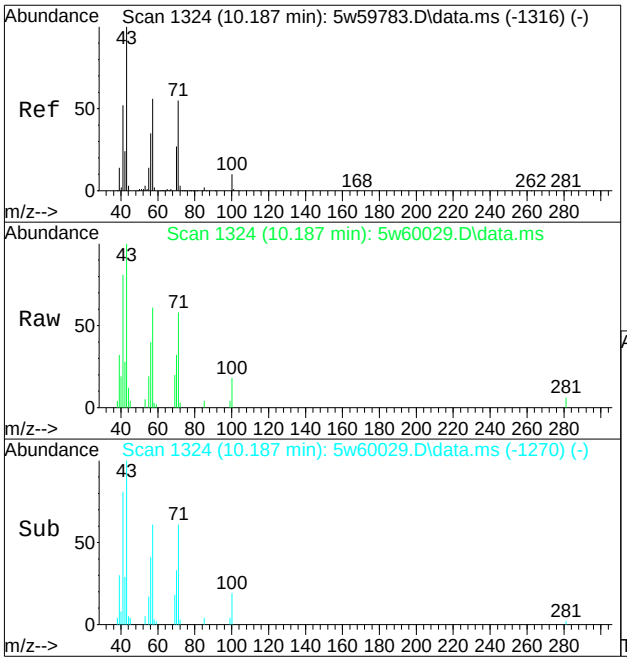


#52
BENZENE
Concen: 0.0969 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 78 Resp: 13306

Ion	Ratio	Lower	Upper
78	100		
77	23.1	0.0	53.8
52	15.1	0.0	46.9

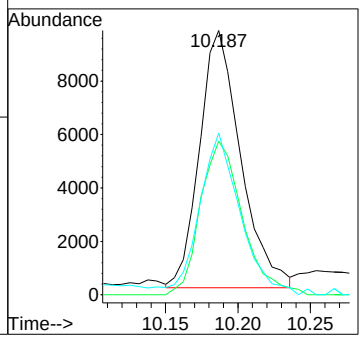


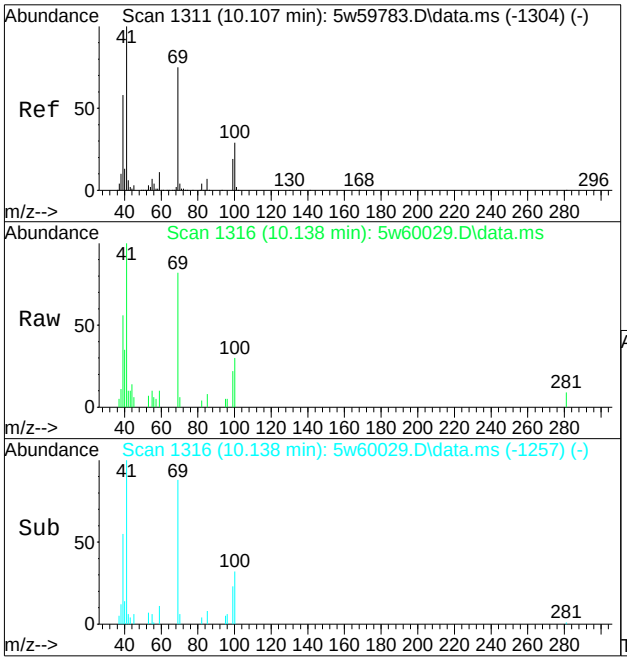


#62
HEPTANE
Concen: 0.2404 PPBV m
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 43 Resp: 18995

Ion	Ratio	Lower	Upper
43	100		
71	61.2	24.5	84.5
57	62.0	26.2	86.2

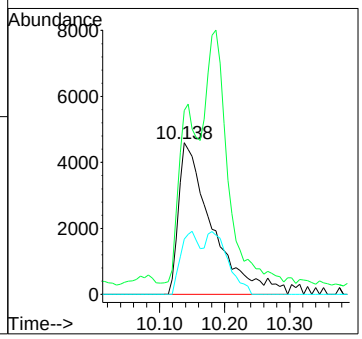


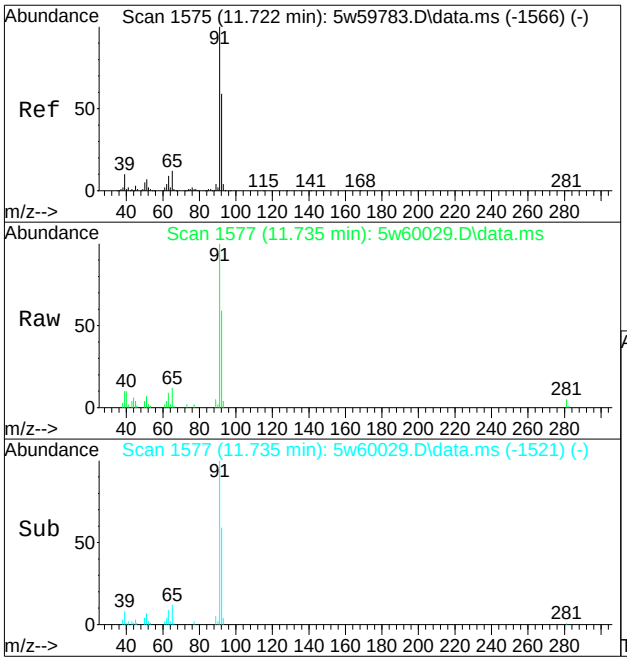


#63
METHYL METHACRYLATE
Concen: 0.3693 PPBV
RT: 10.138 min Scan# 1316
Delta R.T. 0.031 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 69 Resp: 16525

Ion	Ratio	Lower	Upper
69	100		
41	69.2	95.3	155.3#
100	51.8	6.3	66.3

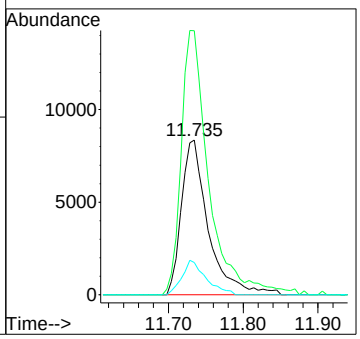


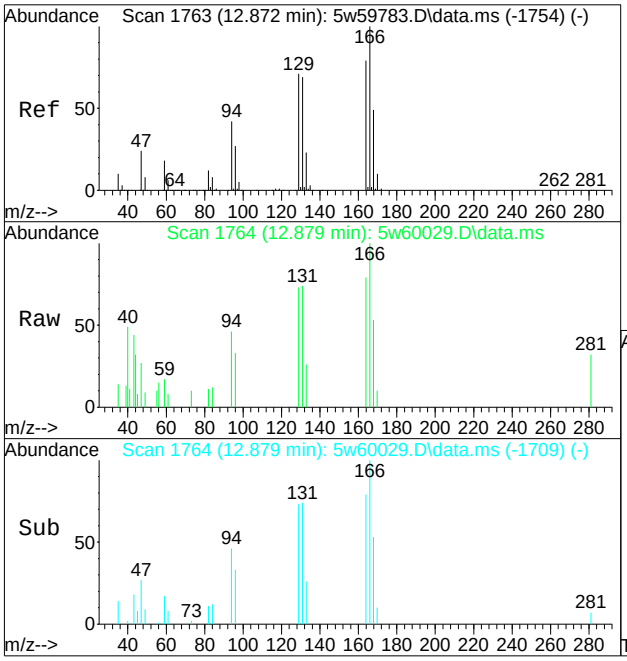


#66
TOLUENE
Concen: 0.2034 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 92 Resp: 20878

Ion	Ratio	Lower	Upper
92	100		
91	175.4	140.1	200.1
65	19.9	0.0	53.1

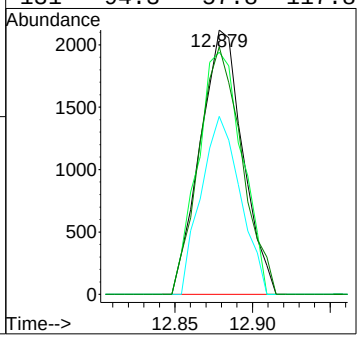


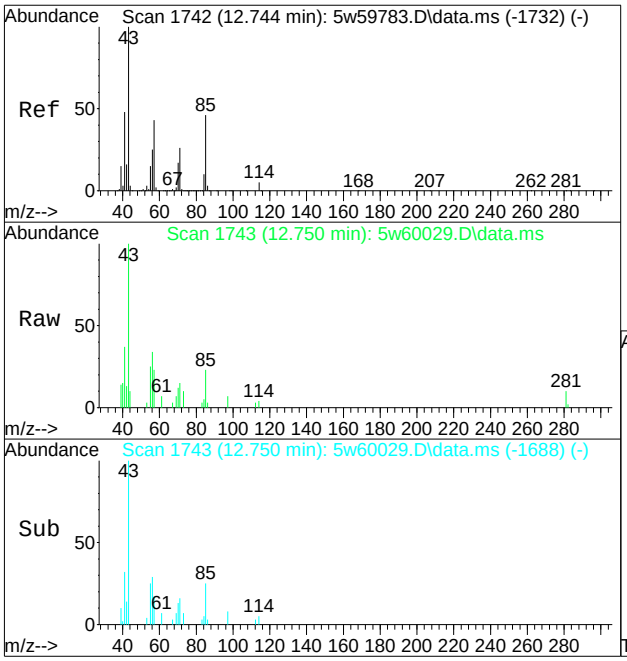


#73
TETRACHLOROETHYLENE
Concen: 0.0621 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.007 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion:164 Resp: 4042

Ion	Ratio	Lower	Upper
164	100		
129	95.8	59.7	119.7
168	62.0	32.2	92.2
131	94.3	57.8	117.8

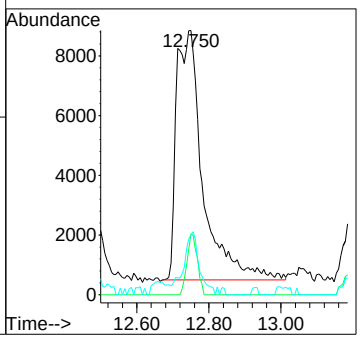


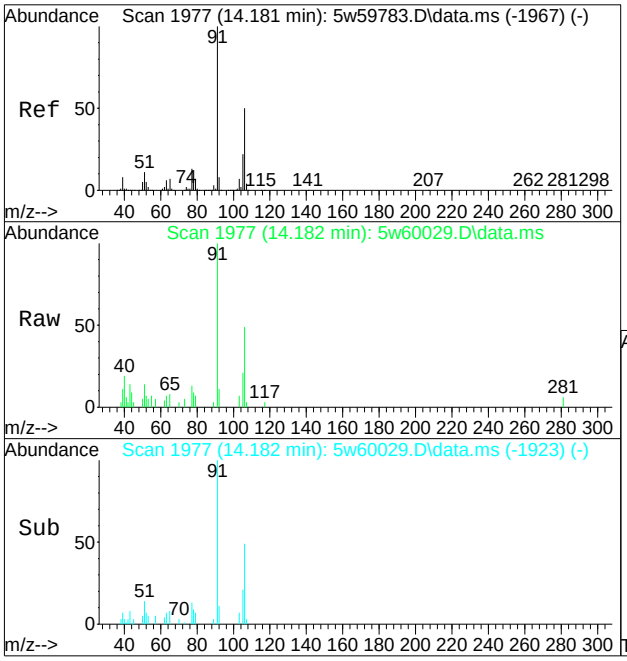


#76
OCTANE
Concen: 0.4683 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 43 Resp: 42474

Ion	Ratio	Lower	Upper
43	100		
85	9.4	14.6	74.6#
57	14.9	13.7	73.7

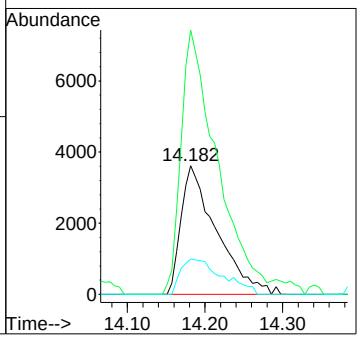


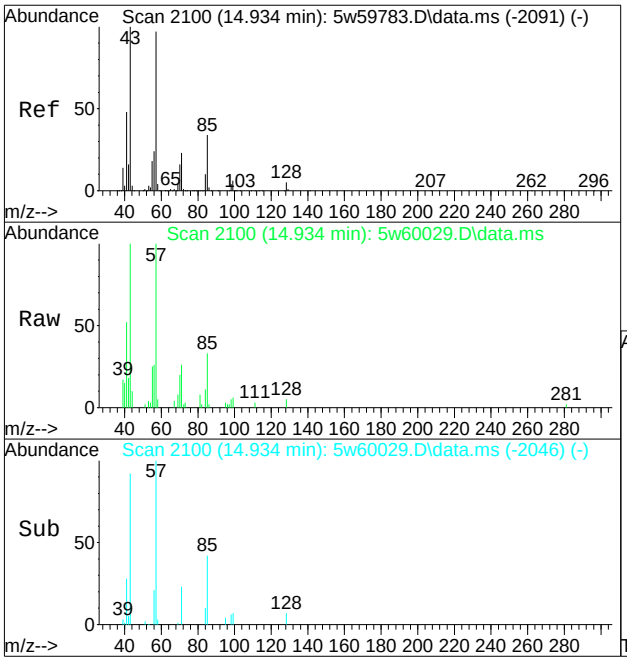


#80
m,p-XYLENE
Concen: 0.1597 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion:106 Resp: 11515

Ion	Ratio	Lower	Upper
106	100		
91	205.5	171.0	231.0
77	27.6	0.0	56.7

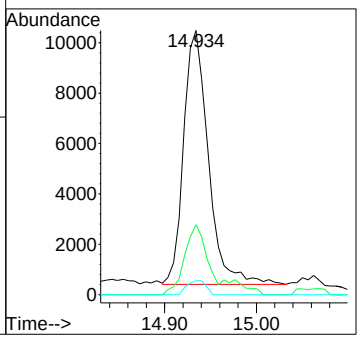


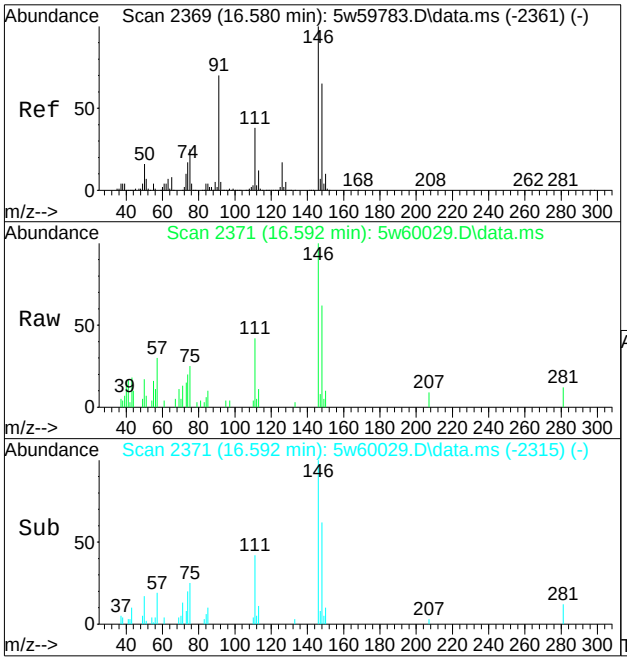


#83
NONANE
Concen: 0.2065 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion: 43 Resp: 18945

Ion	Ratio	Lower	Upper
43	100		
71	30.3	0.0	52.7
128	4.2	0.0	34.7

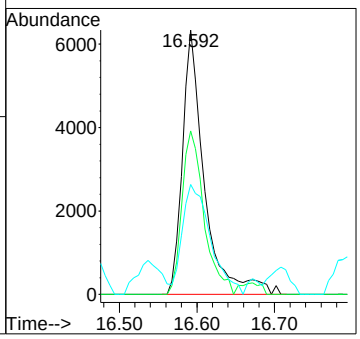




#97
m-DICHLOROBENZENE
Concen: 0.0996 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w60029.D
Acq: 25 Nov 2025 7:57 am

Tgt Ion:146 Resp: 12489

Ion	Ratio	Lower	Upper
146	100		
148	62.0	34.8	94.8
111	52.9	8.2	68.2



Manual Integration Approval Summary

Sample Number: JE23791-1
Lab FileID: 5W60029.D
Injection Time: 11/25/25 07:57

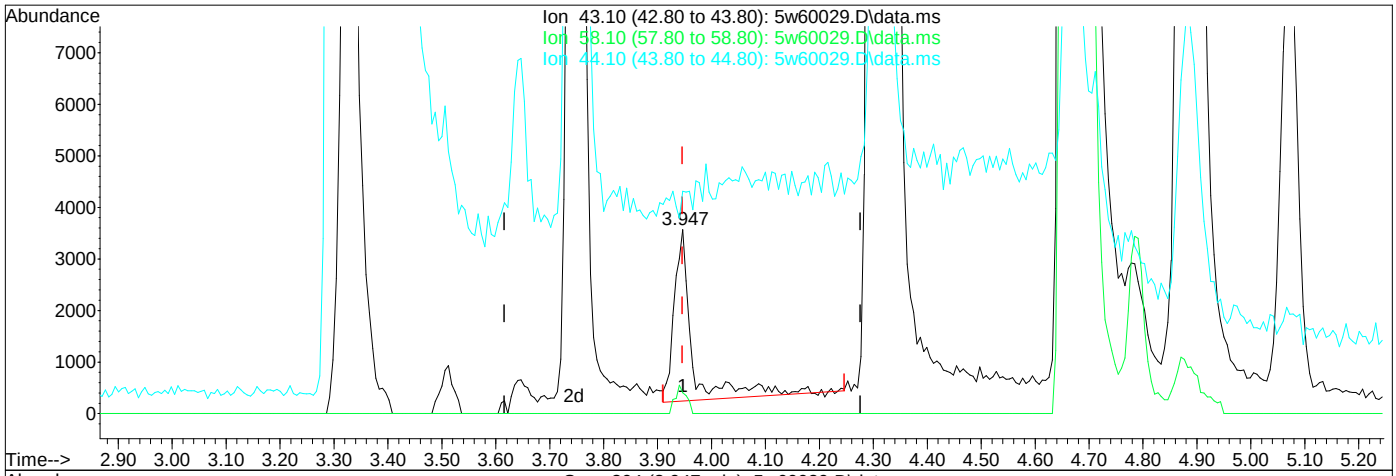
Method: TO-15
Analyst approved: 11/26/25 08:03 Geralyn Gomez
Supervisor approved: 11/26/25 19:10 Kanya Veerawat

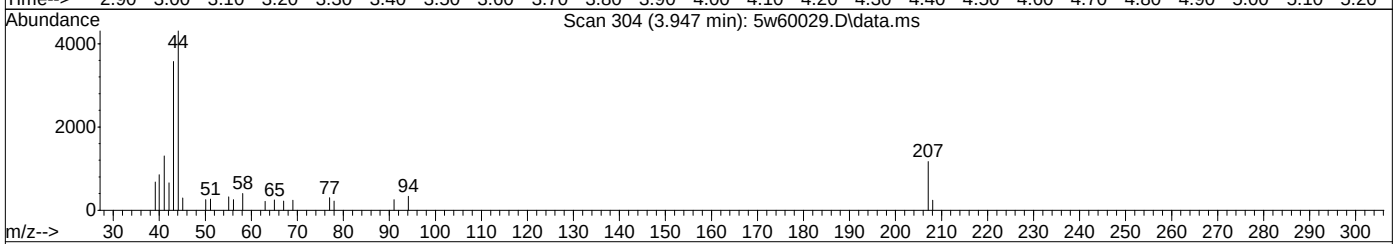
Parameter	CAS	Sig#	R.T. (min.)	Reason
n-Butane	106-97-8		3.95	Poor instrument integration
Heptane	142-82-5		10.19	Poor instrument integration

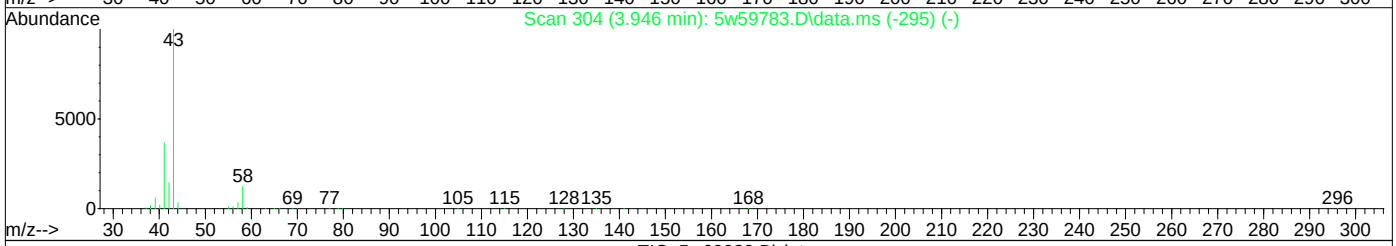
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60029.D
Acq On : 25 Nov 2025 7:57 am
Operator : benk
Sample : je23791-1 Inst : GCMS5W
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 26 20:03:38 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60029.D\data.ms

(13) n-BUTANE

3.947min (+0.001) 0.17PPBV

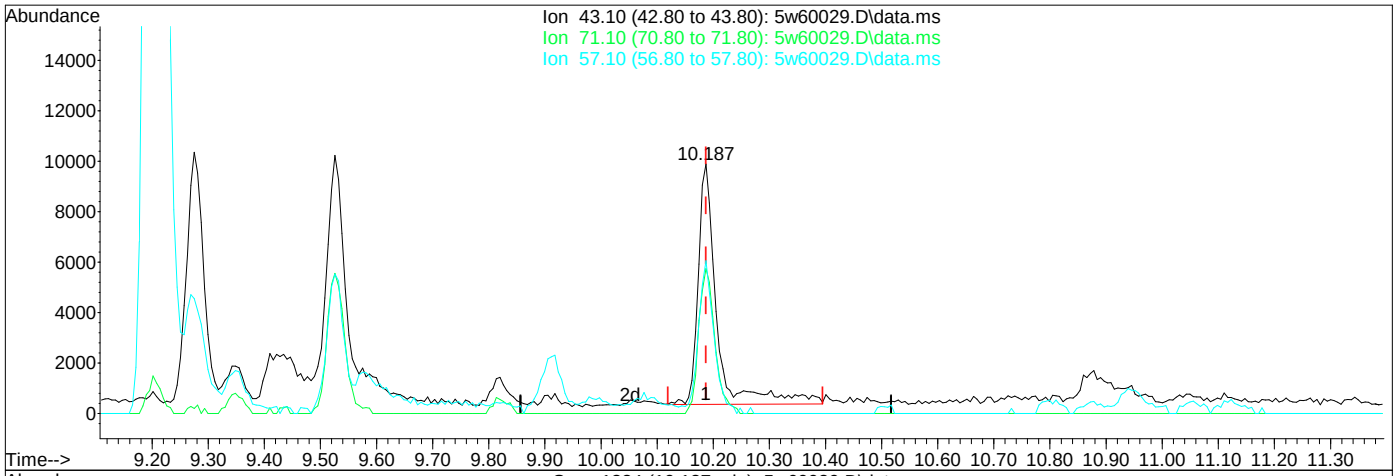
response 7741

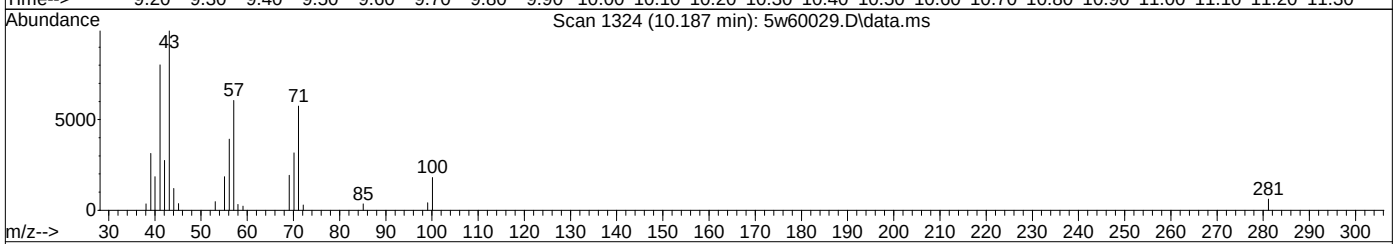
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	10.06
44.10	4.90	8.15
0.00	0.00	0.00

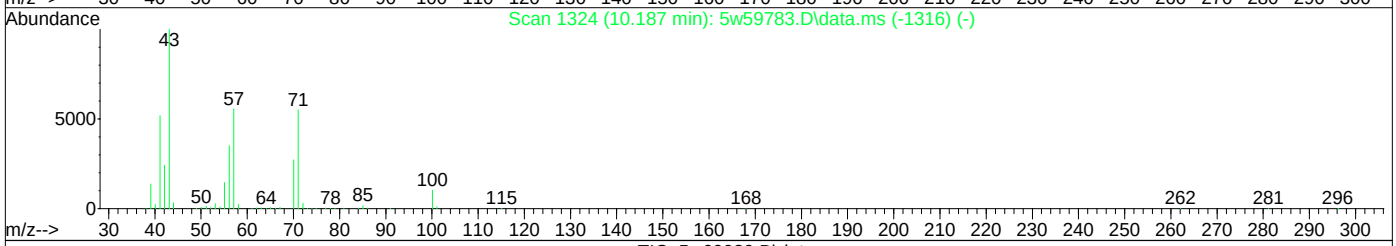
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60029.D
Acq On : 25 Nov 2025 7:57 am
Operator : benk
Sample : je23791-1 Inst : GCMS5W
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 26 20:03:38 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60029.D\data.ms

(62) HEPTANE

10.187min (-0.000) 0.28PPBV

response 22059

Ion	Exp%	Act%
43.10	100	100
71.10	54.50	52.71
57.10	56.20	53.38
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 16:12

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 5w60012.D
Acq On : 24 Nov 2025 7:25 pm
Operator : benk
Sample : je23791-2 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 26 00:07:50 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

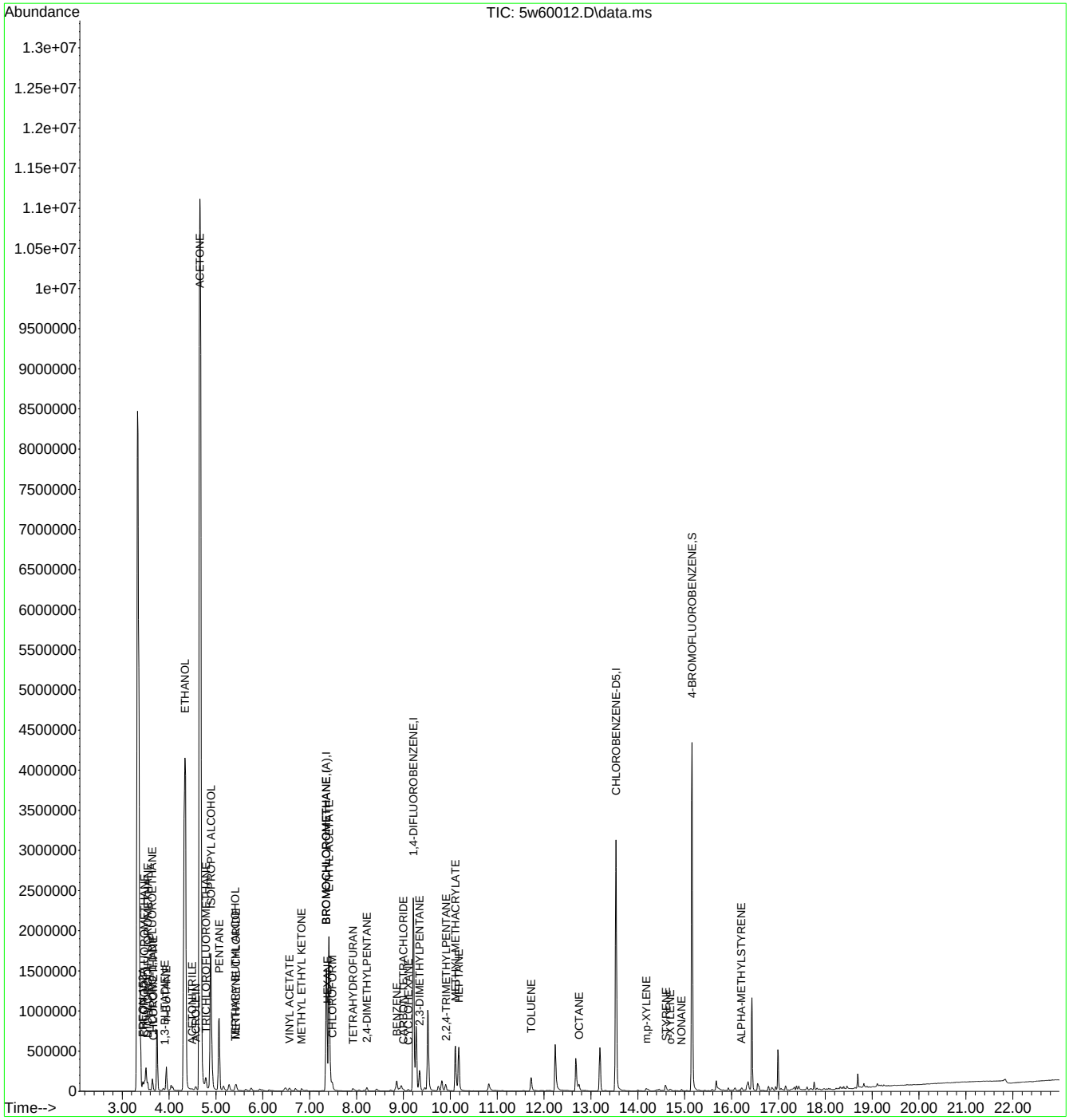
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	478467	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2172826	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1077180	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	478467	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1460663	10.85	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.50%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	48801	1.3752	PPBV	91
4) CHLORODIFLUOROMETHANE	3.469	67	18742	1.2626	PPBV	49
6) DICHLORODIFLUOROMETHANE	3.543	85	86977	0.6352	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	112699	1.0163	PPBV	93
10) CHLOROMETHANE	3.659	52	12131	0.8067	PPBV	95
12) 1,3-BUTADIENE	3.910	54	4611	0.1652	PPBV #	30
13) n-BUTANE	3.940	43	240930	5.2834	PPBV	97
17) ACETONITRILE	4.491	41	10093	0.3874	PPBV	91
18) ACROLEIN	4.571	56	43520	2.9398	PPBV	89
21) TRICHLOROFLUOROMETHANE	4.785	101	105632	0.9031	PPBV	99
22) ISOPROPYL ALCOHOL	4.889	45	2678479	28.5477	PPBV	96
23) ACETONE	4.656	58	7224919	385.0073	PPBV	91
24) PENTANE	5.066	42	381982	7.8363	PPBV	99
28) ETHANOL	4.338	45	7915892	503.5865	PPBV	98
31) METHYLENE CHLORIDE	5.427	84	26429	0.5505	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.409	59	51703	0.5389	PPBV #	28
37) TETRAHYDROFURAN	7.923	72	1852	0.0997	PPBV #	1
38) HEXANE	7.379	57	38220	0.5003	PPBV	86
39) VINYL ACETATE	6.565	86	4531	0.5865	PPBV #	46
41) METHYL ETHYL KETONE	6.822	72	14980	0.8106	PPBV	98
44) ETHYL ACETATE	7.409	61	400943	28.3913	PPBV	93
46) CHLOROFORM	7.483	83	61308	0.5763	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.217	57	22793	0.2636	PPBV	99
49) CARBON TETRACHLORIDE	8.994	117	11828	0.0981	PPBV	99
52) BENZENE	8.859	78	119994	0.8243	PPBV	98
53) CYCLOHEXANE	9.104	84	8315	0.1430	PPBV	88
54) 2,3-DIMETHYLPENTANE	9.342	71	46410	1.5793	PPBV	90
60) 2,2,4-TRIMETHYLPENTANE	9.911	57	22864	0.0993	PPBV #	1
62) HEPTANE	10.181	43	252102	3.0098	PPBV	95
63) METHYL METHACRYLATE	10.107	69	255372	5.3828	PPBV	90
66) TOLUENE	11.722	92	86647	0.7963	PPBV	97
76) OCTANE	12.744	43	68665m	0.6711	PPBV	
80) m,p-XYLENE	14.182	106	16048	0.1972	PPBV	97
81) o-XYLENE	14.689	106	7356	0.0965	PPBV	92
82) STYRENE	14.598	104	11459	0.0964	PPBV	92
83) NONANE	14.934	43	10492	0.1014	PPBV	96
94) ALPHA-METHYLSTYRENE	16.206	118	12748	0.1304	PPBV	94

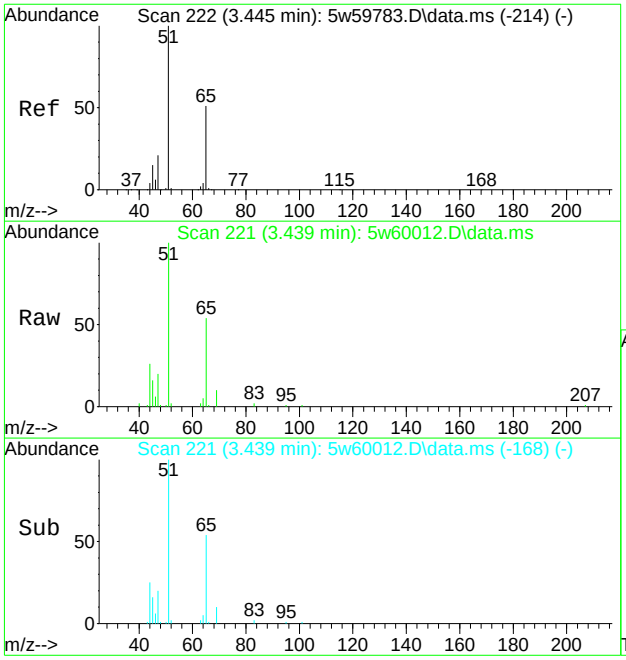
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60012.D
Acq On : 24 Nov 2025 7:25 pm
Operator : benk
Sample : je23791-2 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 26 00:07:50 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

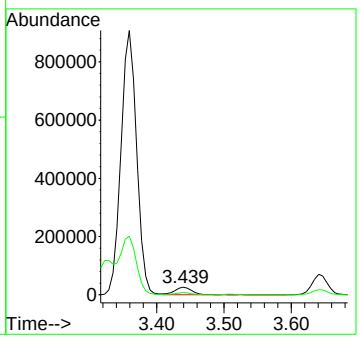


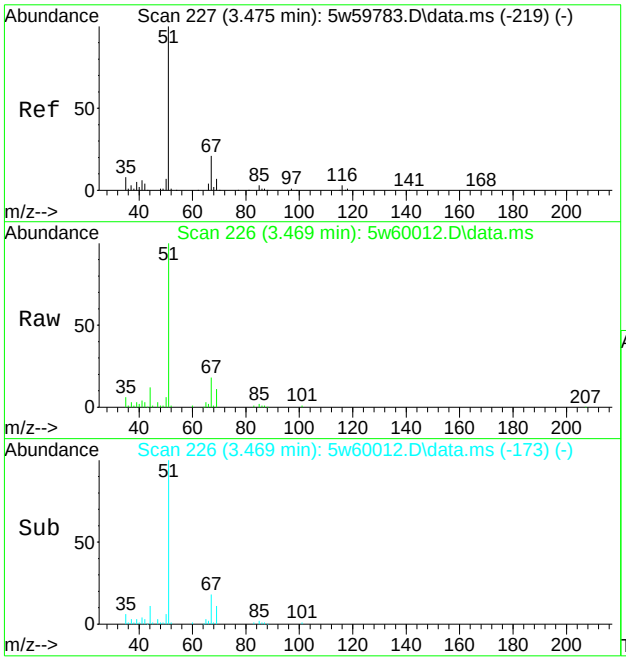


#3
FREON 152A
Concen: 1.3752 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 65 Resp: 48801

Ion	Ratio	Lower	Upper
65	100		
45	25.0	0.0	60.0

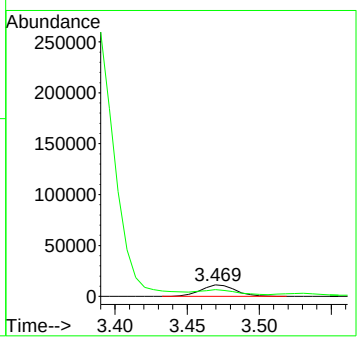


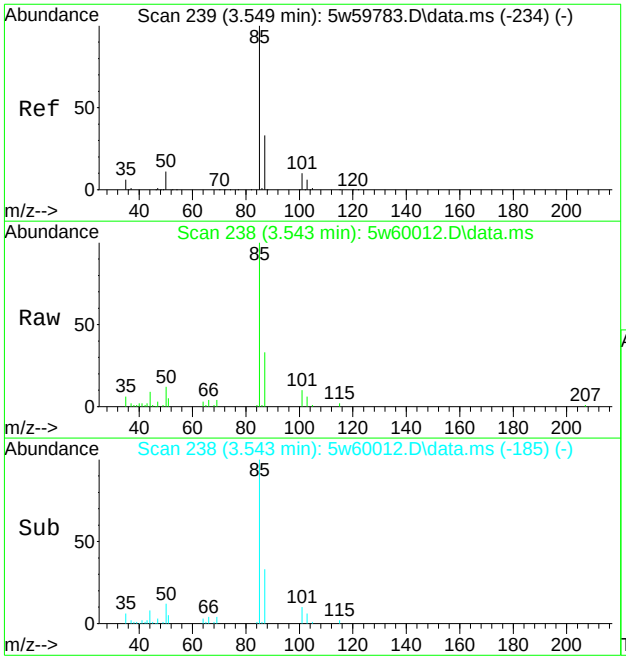


#4
CHLORODIFLUOROMETHANE
Concen: 1.2626 PPBV
RT: 3.469 min Scan# 226
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 67 Resp: 18742

Ion	Ratio	Lower	Upper
67	100		
69	58.8	1.0	61.0

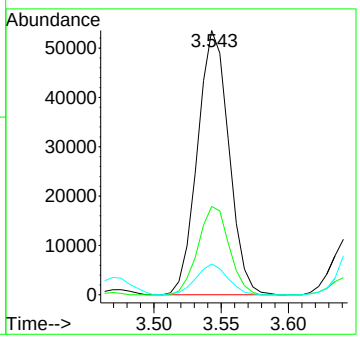


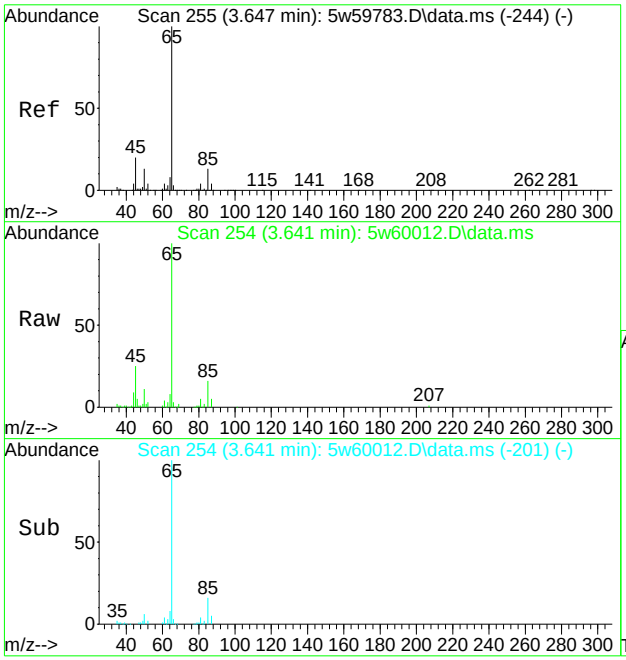


#6
DICHLORODIFLUOROMETHANE
Concen: 0.6352 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 85 Resp: 86977

Ion	Ratio	Lower	Upper
85	100		
87	33.1	2.5	62.5
50	11.7	0.0	41.7

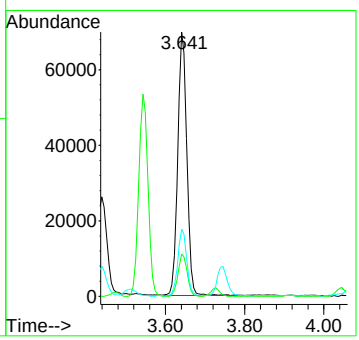


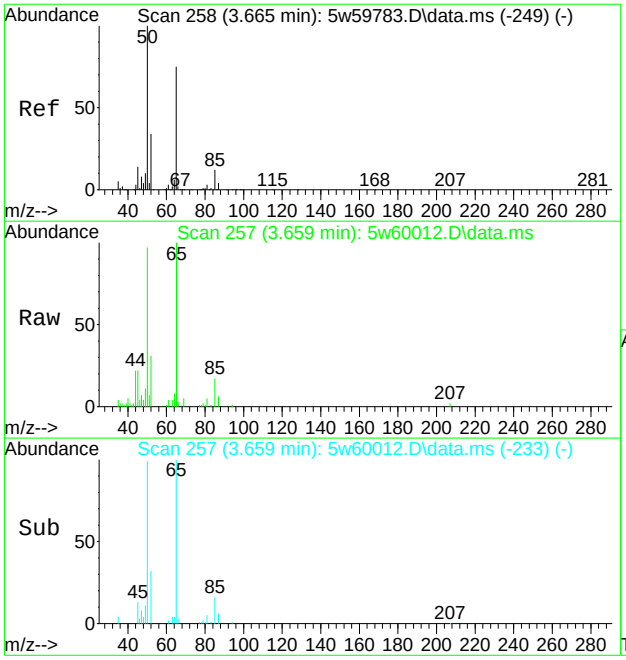


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 1.0163 PPBV
RT: 3.641 min Scan# 254
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 65 Resp: 112699

Ion	Ratio	Lower	Upper
65	100		
85	16.0	11.5	21.3
45	25.6	14.0	26.0

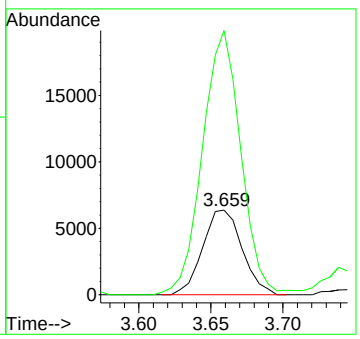


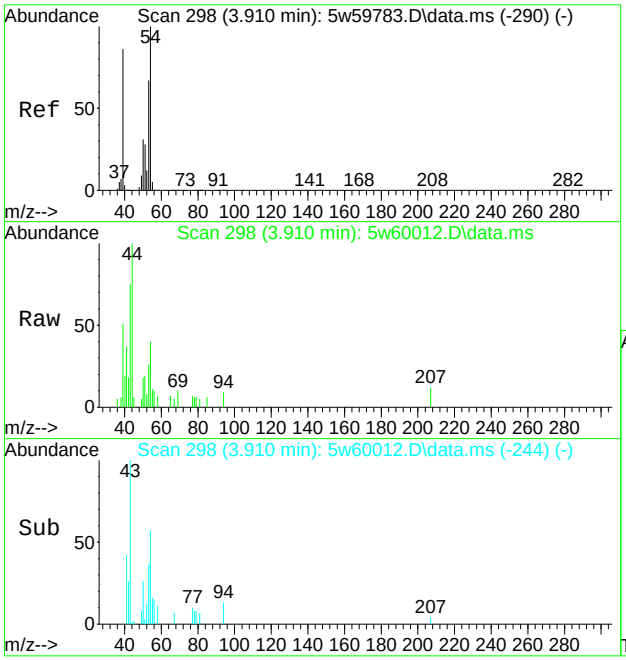


#10
CHLOROMETHANE
Concen: 0.8067 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 52 Resp: 12131

Ion	Ratio	Lower	Upper
52	100		
50	307.8	267.9	327.9

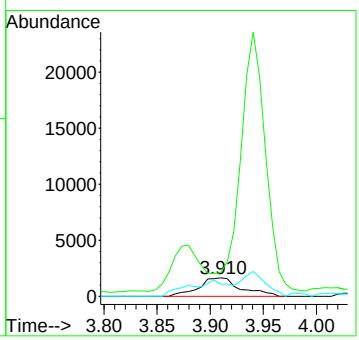


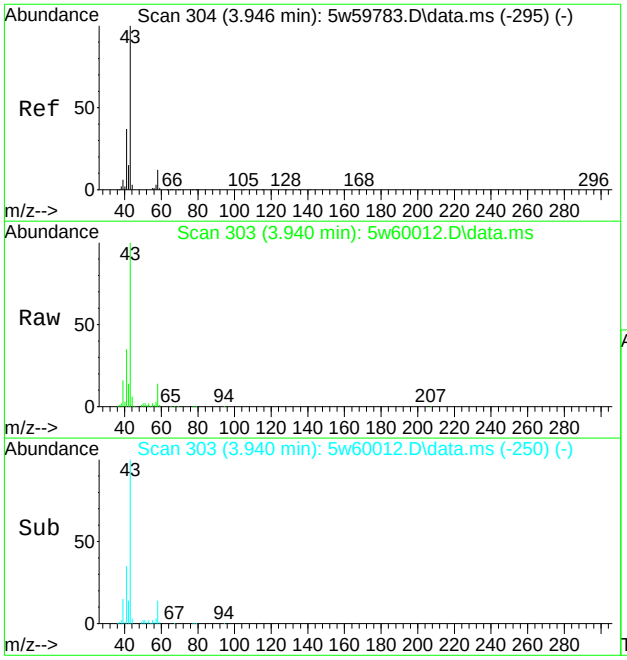


#12
1,3-BUTADIENE
Concen: 0.1652 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 54 Resp: 4611

Ion	Ratio	Lower	Upper
54	100		
39	0.0	82.0	142.0#
53	82.9	40.2	100.2

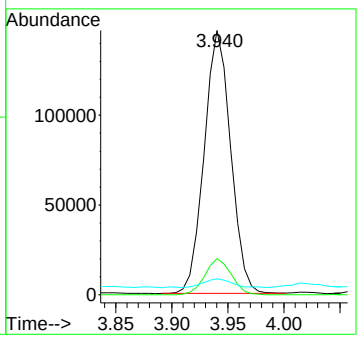


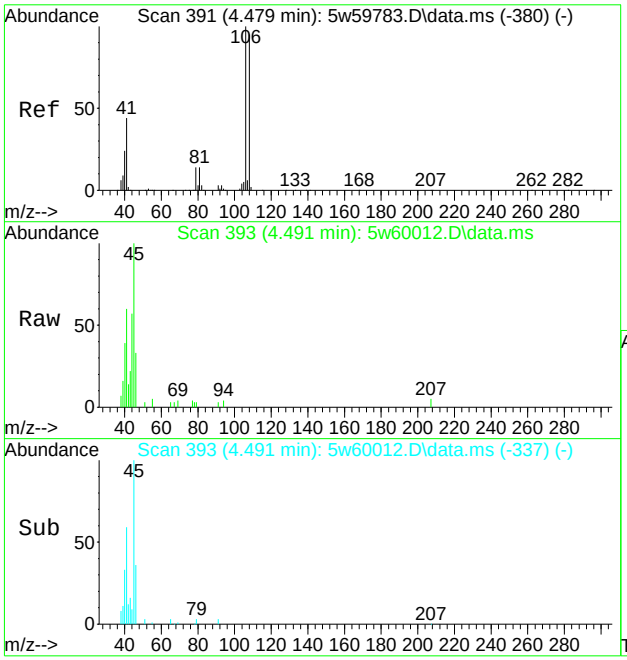


#13
n-BUTANE
Concen: 5.2834 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 43 Resp: 240930

Ion	Ratio	Lower	Upper
43	100		
58	13.7	0.0	42.6
44	3.4	0.0	34.9

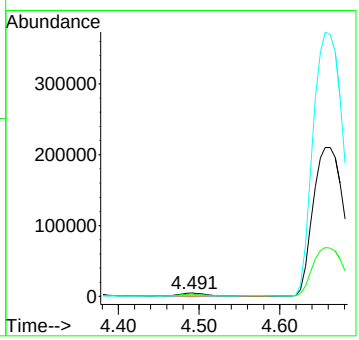


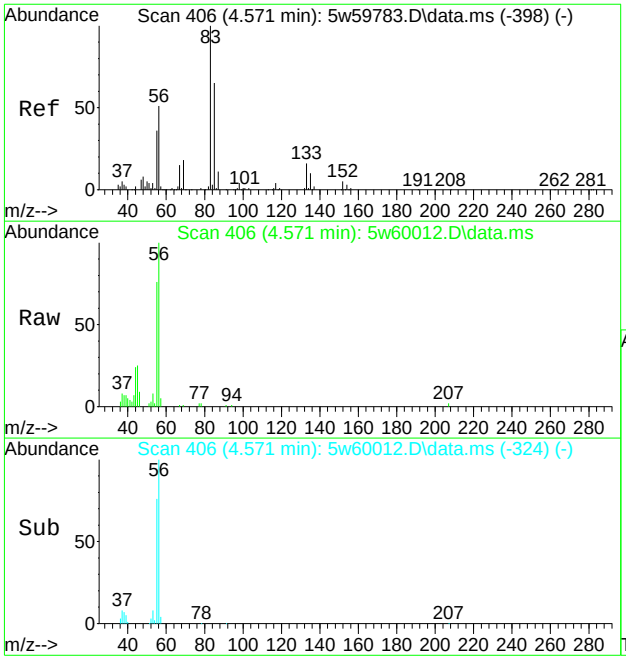


#17
ACETONITRILE
Concen: 0.3874 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 41 Resp: 10093

Ion	Ratio	Lower	Upper
41	100		
40	48.1	37.9	70.5
39	13.8	13.4	24.8

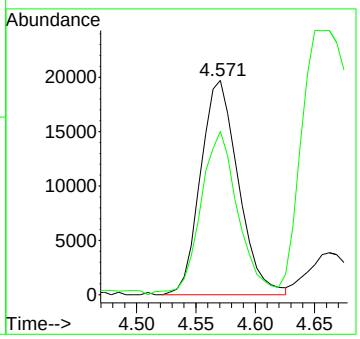


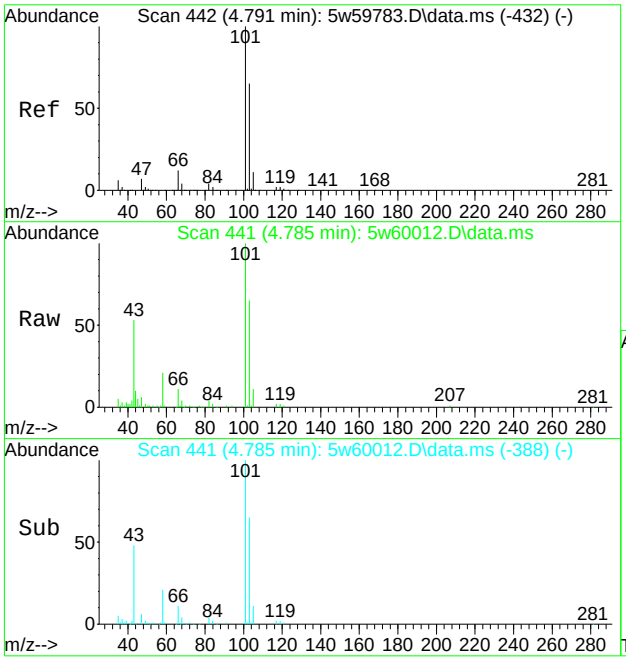


#18
ACROLEIN
Concen: 2.9398 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 56 Resp: 43520

Ion	Ratio	Lower	Upper
56	100		
55	75.2	46.6	86.6

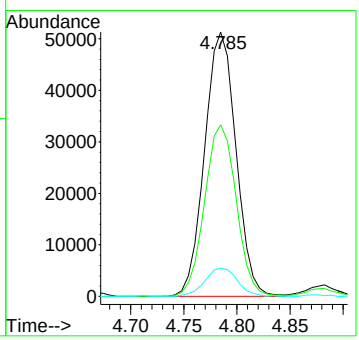


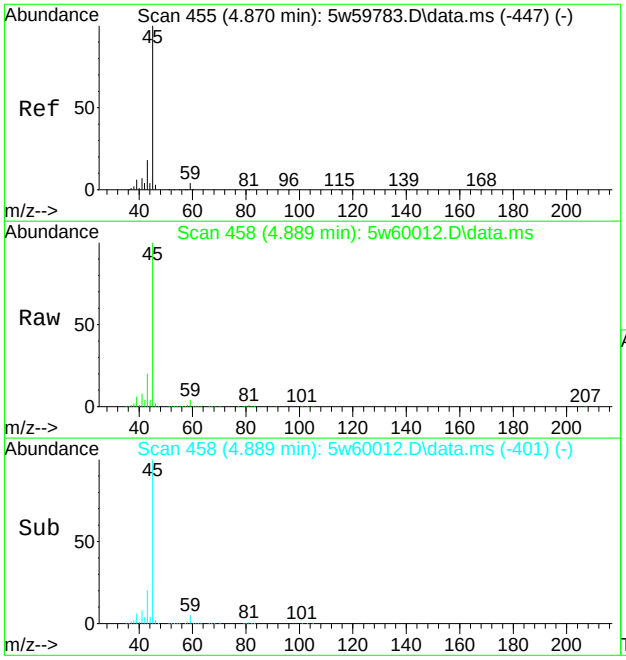


#21
TRICHLOROFLUOROMETHANE
Concen: 0.9031 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion:101 Resp: 105632

Ion	Ratio	Lower	Upper
101	100		
103	65.4	35.0	95.0
105	11.2	0.0	40.7

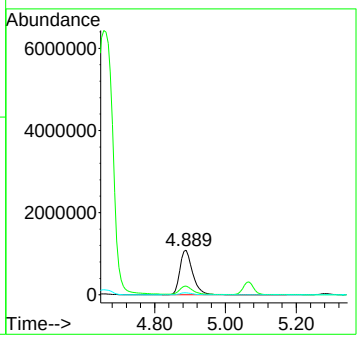


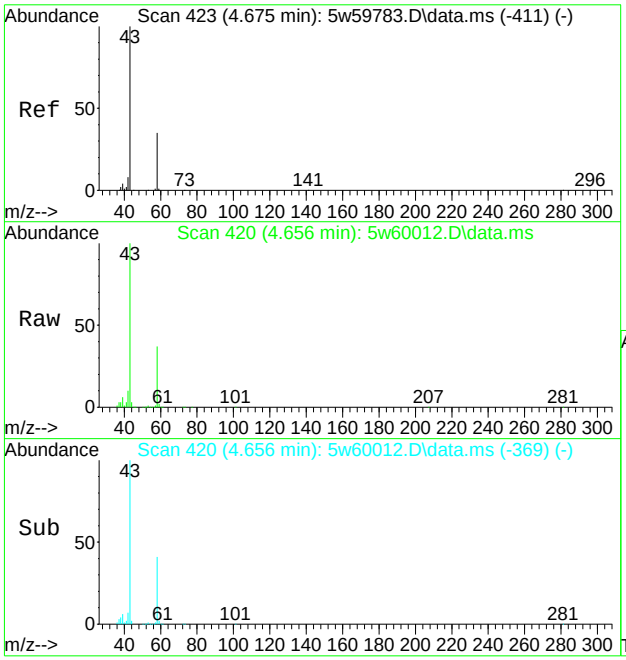


#22
ISOPROPYL ALCOHOL
Concen: 28.5477 PPBV
RT: 4.889 min Scan# 458
Delta R.T. 0.019 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 45 Resp: 2678479

Ion	Ratio	Lower	Upper
45	100		
43	19.7	0.0	47.8
59	4.5	0.0	34.1

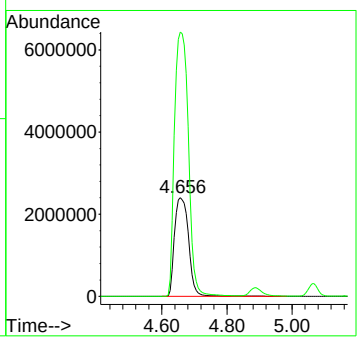


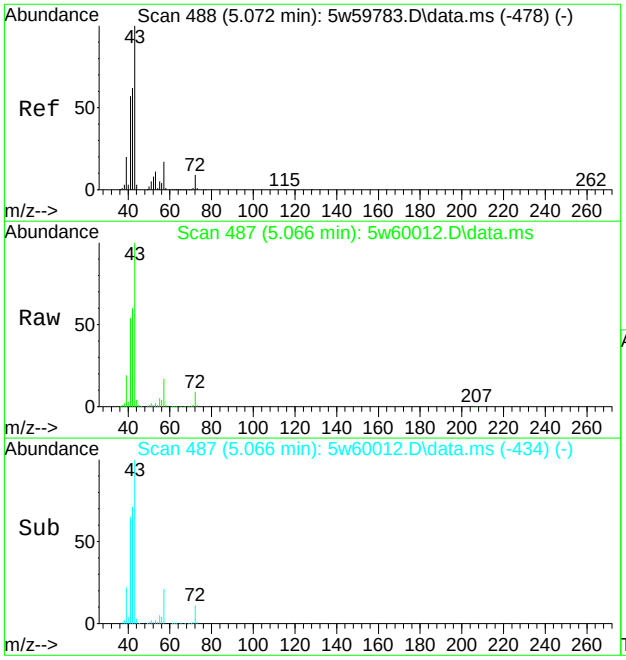


#23
ACETONE
Concen: 385.0073 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 58 Resp: 7224919

Ion	Ratio	Lower	Upper
58	100		
43	266.0	252.3	312.3

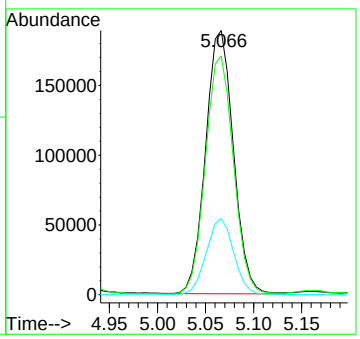


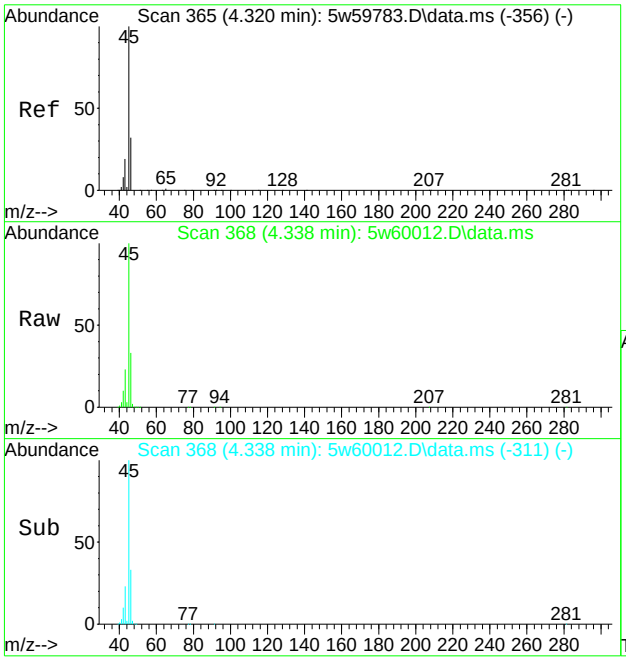


#24
PENTANE
Concen: 7.8363 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 42 Resp: 381982

Ion	Ratio	Lower	Upper
42	100		
41	91.2	62.3	122.3
57	28.9	0.0	57.7

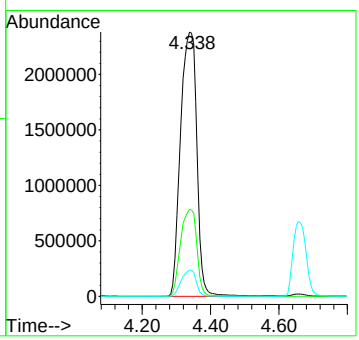


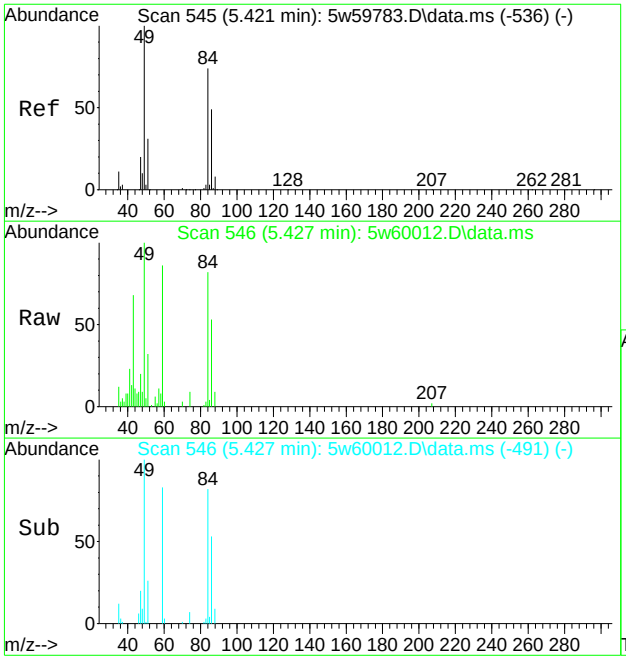


#28
ETHANOL
Concen: 503.5865 PPBV
RT: 4.338 min Scan# 368
Delta R.T. 0.018 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 45 Resp: 7915892

Ion	Ratio	Lower	Upper
45	100		
46	33.1	2.0	62.0
42	9.1	0.0	38.5

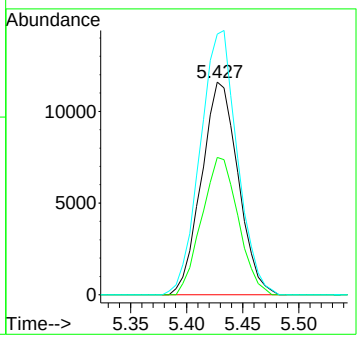


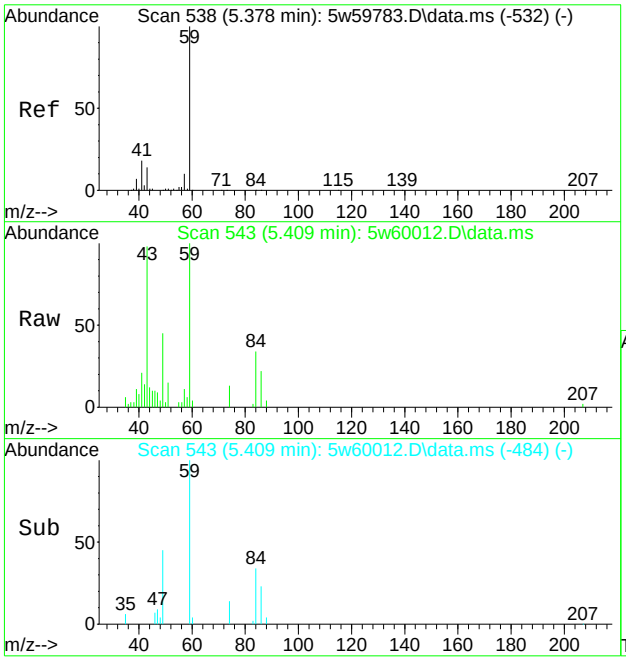


#31
METHYLENE CHLORIDE
Concen: 0.5505 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 84 Resp: 26429

Ion	Ratio	Lower	Upper
84	100		
86	64.0	35.2	95.2
49	125.8	105.3	165.3

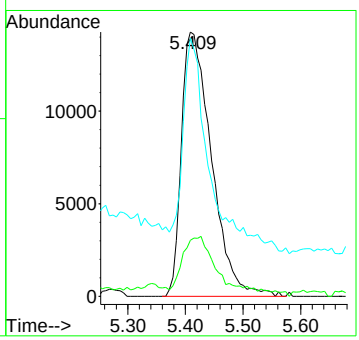


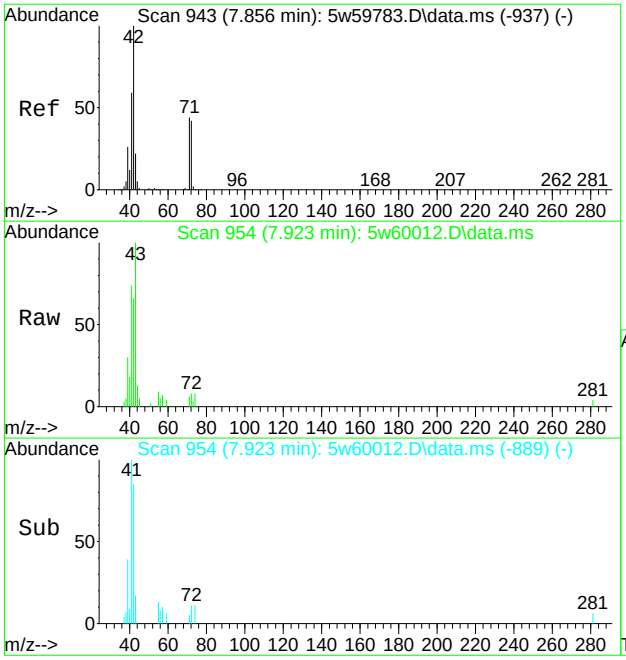


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.5389 PPBV
RT: 5.409 min Scan# 543
Delta R.T. 0.031 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 59 Resp: 51703

Ion	Ratio	Lower	Upper
59	100		
41	27.8	0.0	49.3
43	73.4	0.0	44.1#

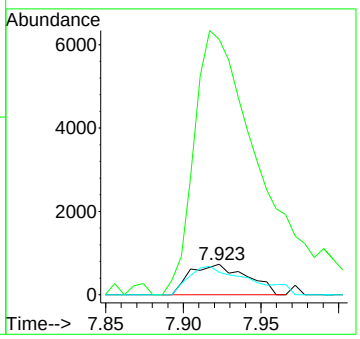


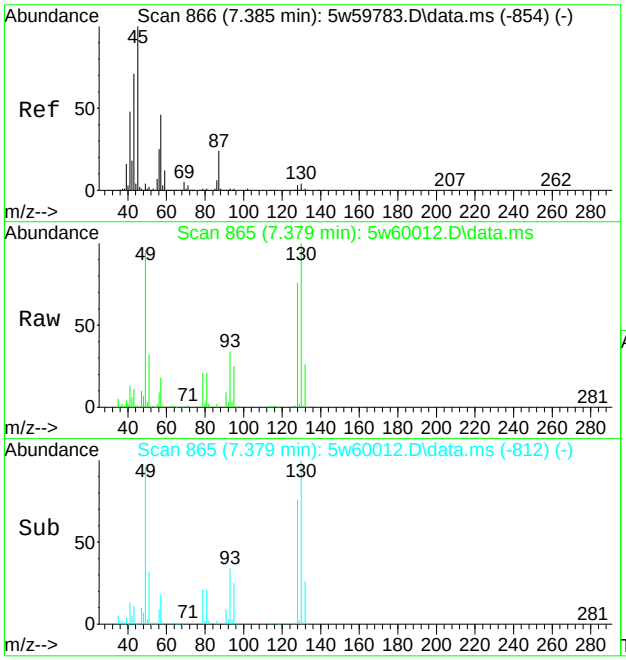


#37
TETRAHYDROFURAN
Concen: 0.0997 PPBV
RT: 7.923 min Scan# 954
Delta R.T. 0.067 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 72 Resp: 1852

Ion	Ratio	Lower	Upper
72	100		
42	1197.0	202.4	262.4#
71	98.3	71.1	131.1

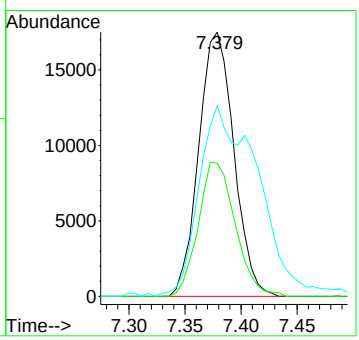


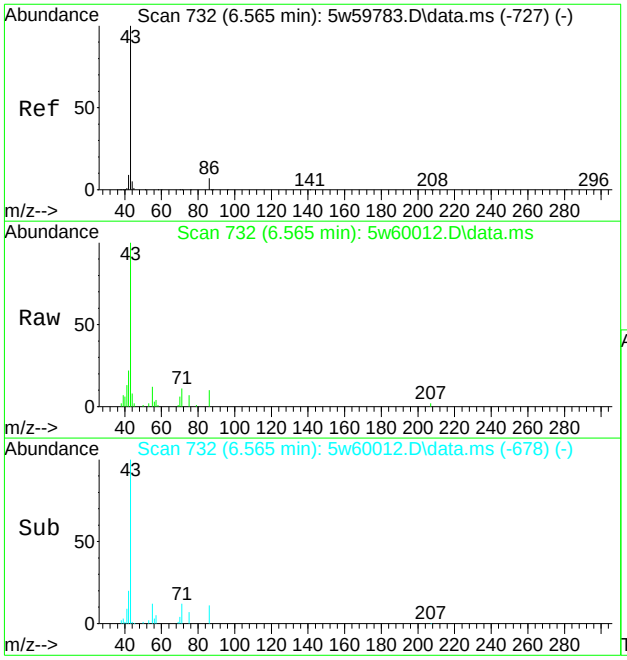


#38
HEXANE
Concen: 0.5003 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 57 Resp: 38220

Ion	Ratio	Lower	Upper
57	100		
56	53.3	25.9	85.9
41	124.4	74.7	134.7

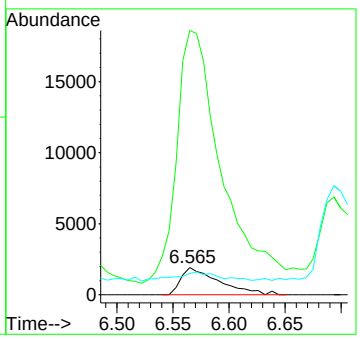


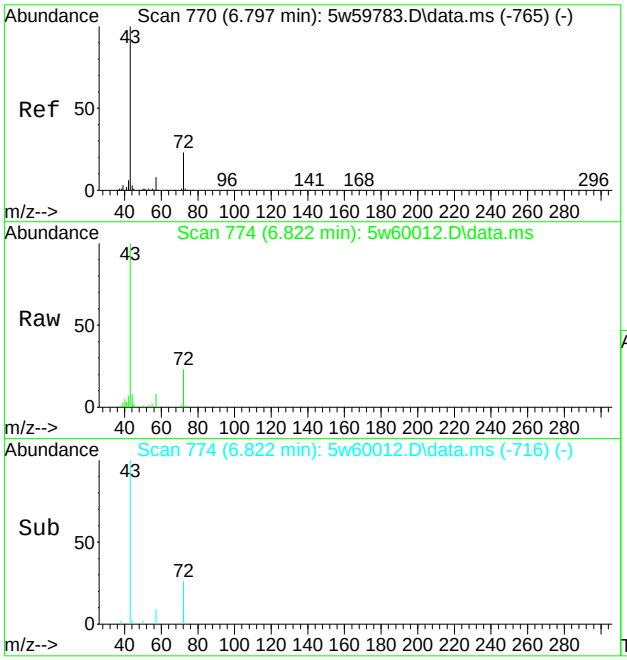


#39
VINYL ACETATE
Concen: 0.5865 PPBV
RT: 6.565 min Scan# 732
Delta R.T. -0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 86 Resp: 4531

Ion	Ratio	Lower	Upper
86	100		
43	1102.5	1379.7	1439.7#
44	28.0	36.9	96.9#

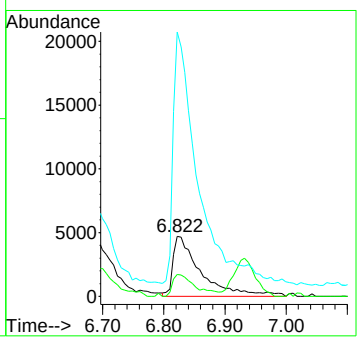


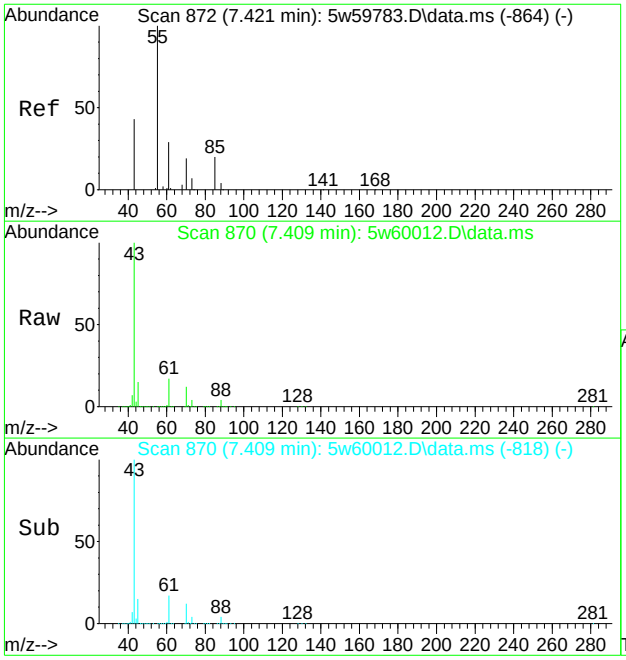


#41
METHYL ETHYL KETONE
Concen: 0.8106 PPBV
RT: 6.822 min Scan# 774
Delta R.T. 0.025 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 72 Resp: 14980

Ion	Ratio	Lower	Upper
72	100		
57	36.6	4.8	64.8
43	440.7	415.9	475.9

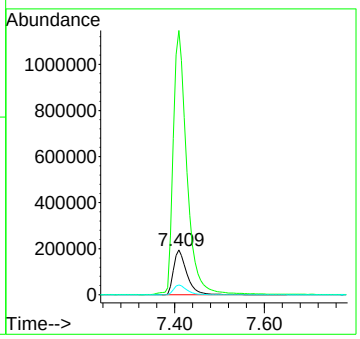


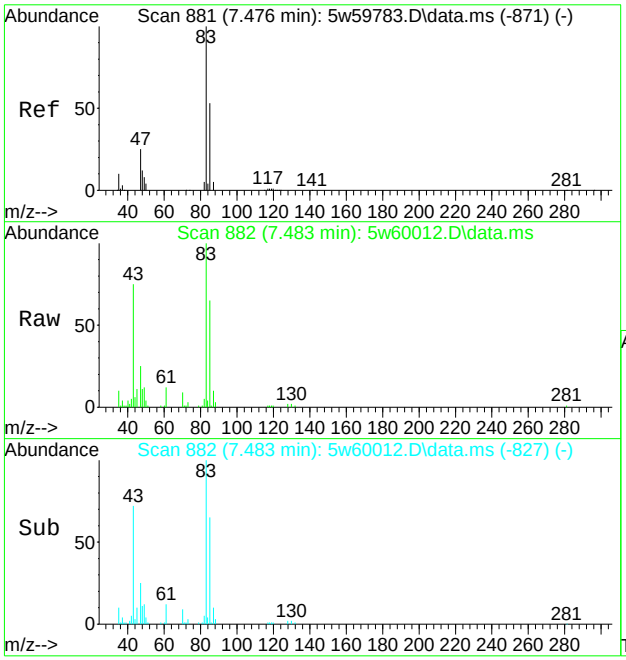


#44
ETHYL ACETATE
Concen: 28.3913 PPBV
RT: 7.409 min Scan# 870
Delta R.T. -0.012 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 61 Resp: 400943

Ion	Ratio	Lower	Upper
61	100		
43	608.8	560.5	620.5
88	22.0	4.5	64.5

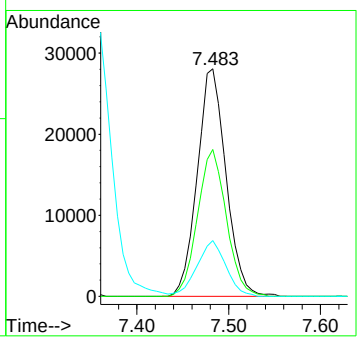


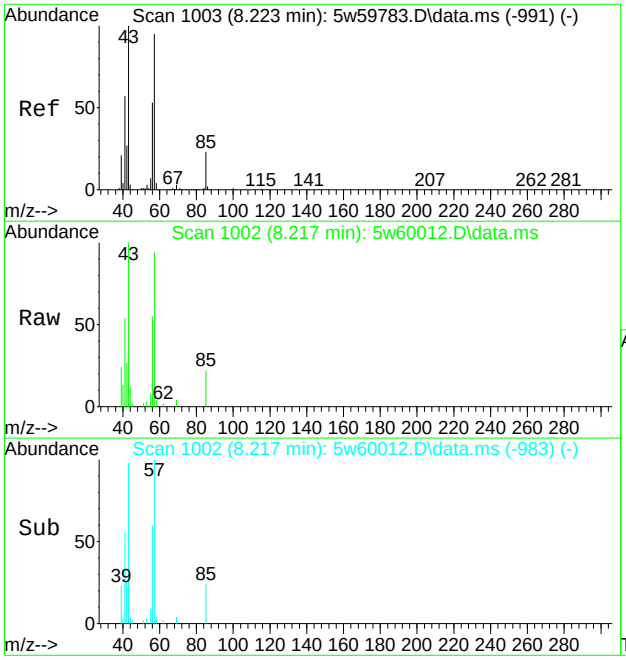


#46
CHLOROFORM
Concen: 0.5763 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 83 Resp: 61308

Ion	Ratio	Lower	Upper
83	100		
85	64.5	35.6	95.6
47	24.7	0.0	55.2

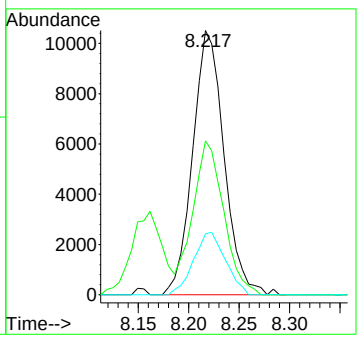


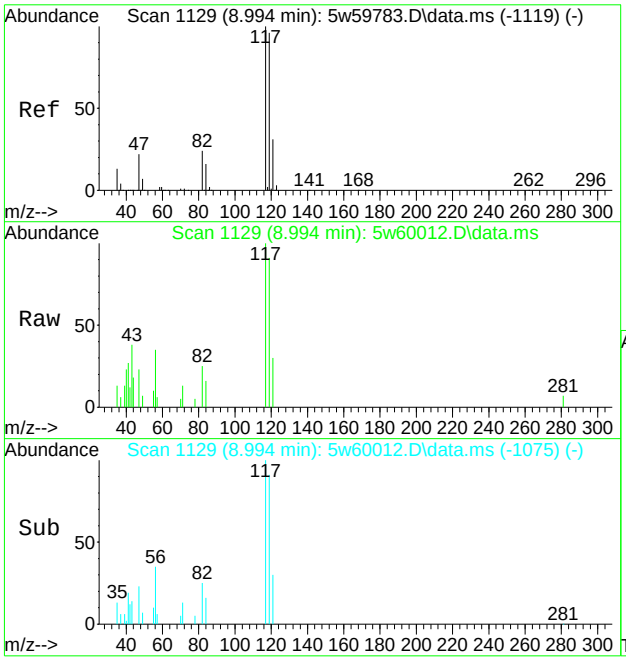


#47
2,4-DIMETHYLPENTANE
Concen: 0.2636 PPBV
RT: 8.217 min Scan# 1002
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 57 Resp: 22793

Ion	Ratio	Lower	Upper
57	100		
56	57.3	26.5	86.5
85	23.9	0.0	53.8

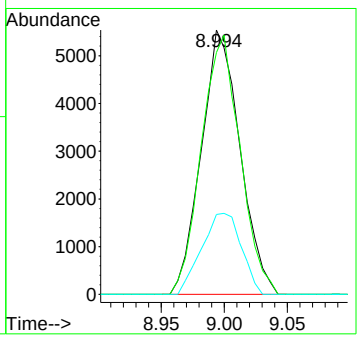


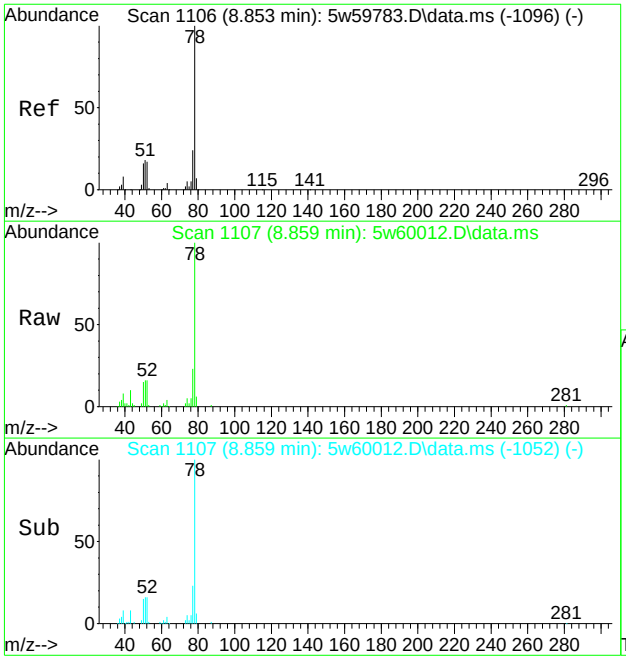


#49
CARBON TETRACHLORIDE
Concen: 0.0981 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion:117 Resp: 11828

Ion	Ratio	Lower	Upper
117	100		
119	98.1	66.9	126.9
121	31.3	1.3	61.3

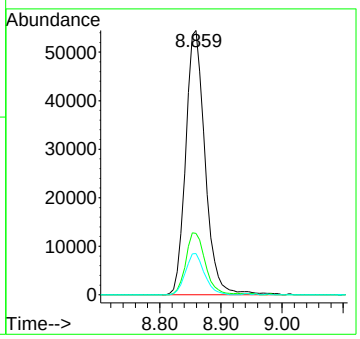


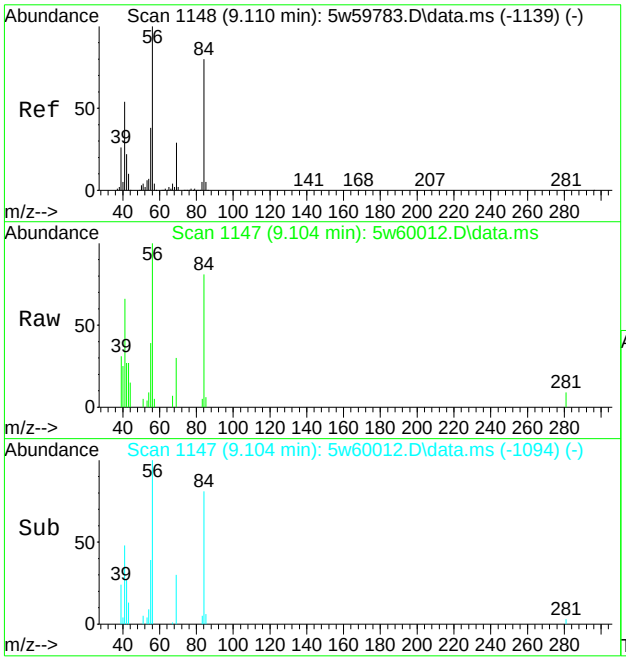


#52
BENZENE
Concen: 0.8243 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 78 Resp: 119994

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	15.3	0.0	46.9

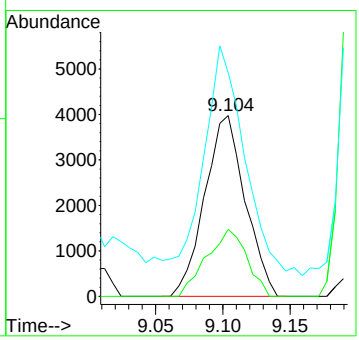


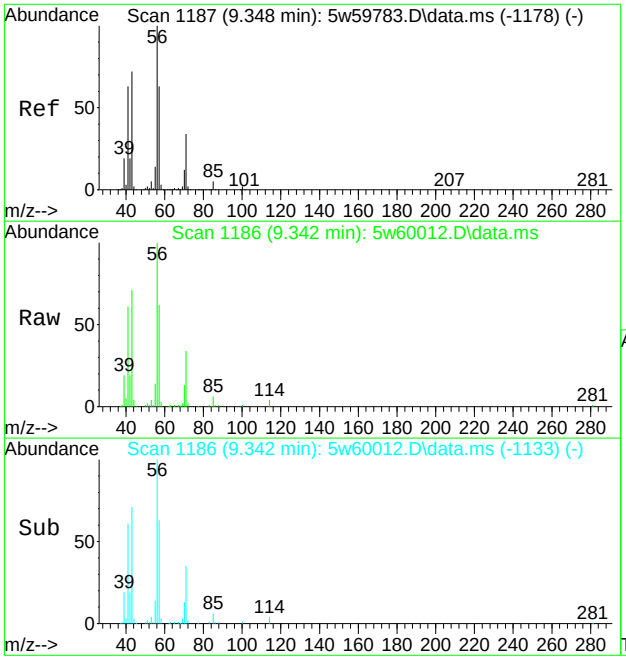


#53
CYCLOHEXANE
Concen: 0.1430 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 84 Resp: 8315

Ion	Ratio	Lower	Upper
84	100		
69	36.8	6.9	66.9
56	145.9	98.2	158.2

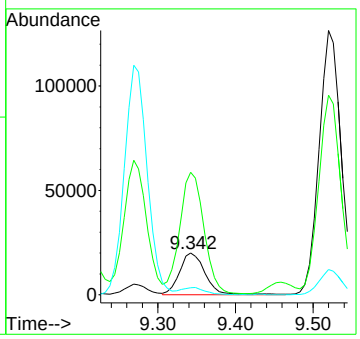


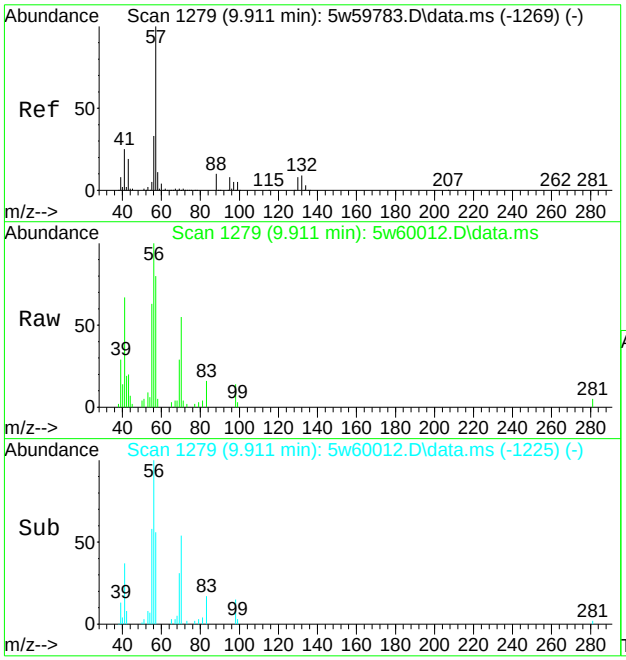


#54
2,3-DIMETHYLPENTANE
Concen: 1.5793 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 71 Resp: 46410

Ion	Ratio	Lower	Upper
71	100		
56	275.3	264.6	324.6
85	16.0	0.0	45.3

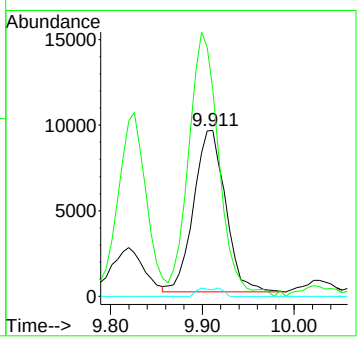


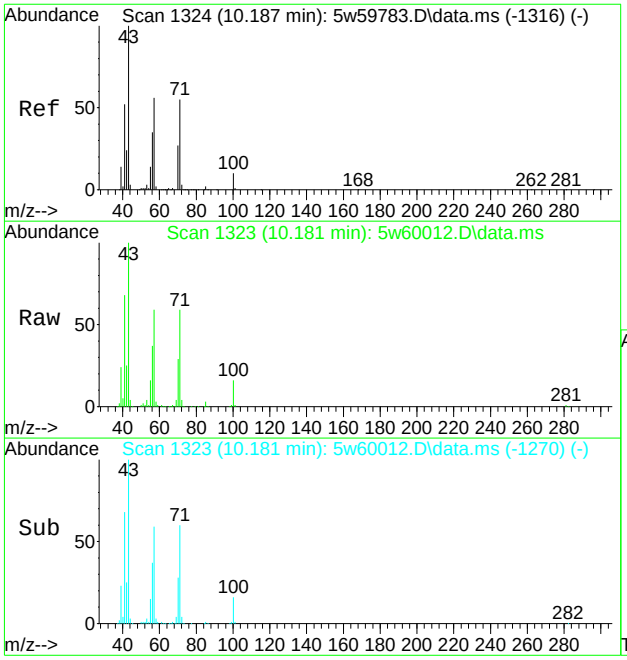


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.0993 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 57 Resp: 22864

Ion	Ratio	Lower	Upper
57	100		
56	153.9	2.5	62.5#
99	3.9	0.0	37.3

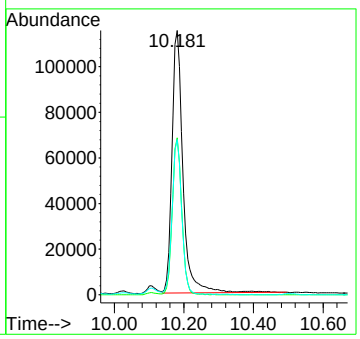


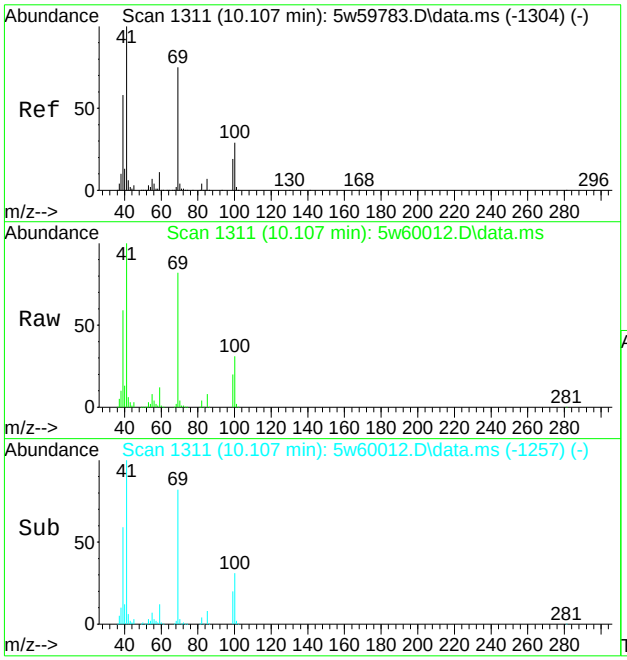


#62
HEPTANE
Concen: 3.0098 PPBV
RT: 10.181 min Scan# 1323
Delta R.T. -0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 43 Resp: 252102

Ion	Ratio	Lower	Upper
43	100		
71	51.6	24.5	84.5
57	52.1	26.2	86.2

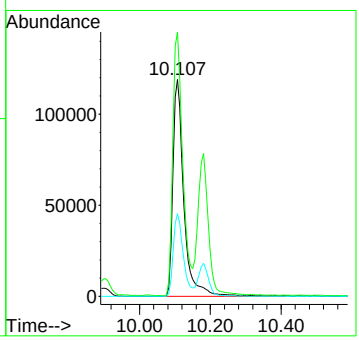


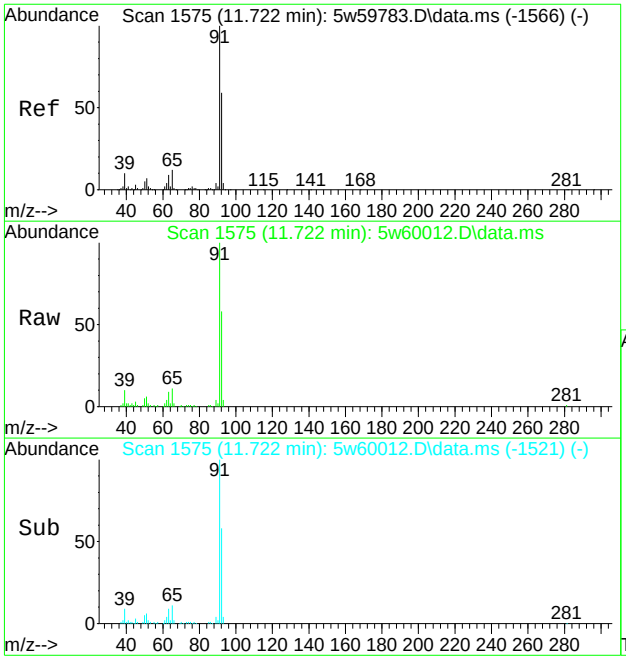


#63
METHYL METHACRYLATE
Concen: 5.3828 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 69 Resp: 255372

Ion	Ratio	Lower	Upper
69	100		
41	111.4	95.3	155.3
100	34.5	6.3	66.3

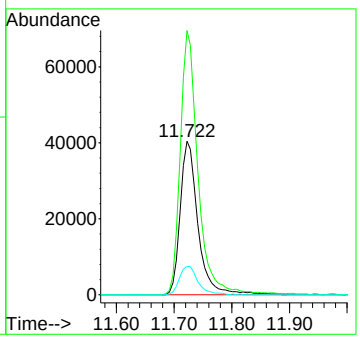


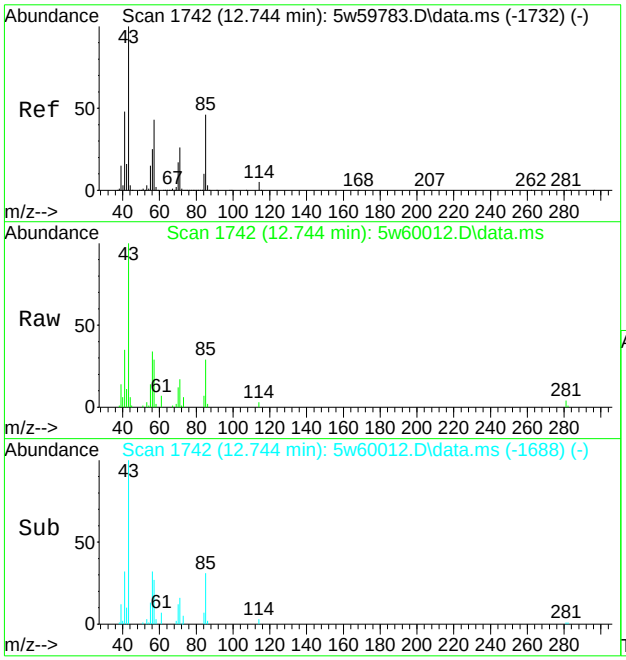


#66
TOLUENE
Concen: 0.7963 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 92 Resp: 86647

Ion	Ratio	Lower	Upper
92	100		
91	172.6	140.1	200.1
65	19.4	0.0	53.1

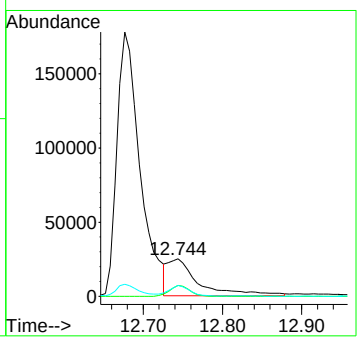


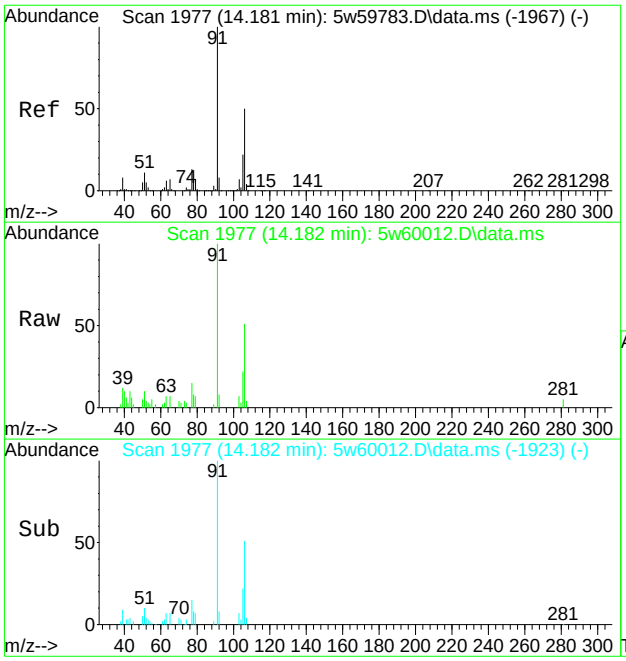


#76
OCTANE
Concen: 0.6711 PPBV m
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 43 Resp: 68665

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	22.6	13.7	73.7

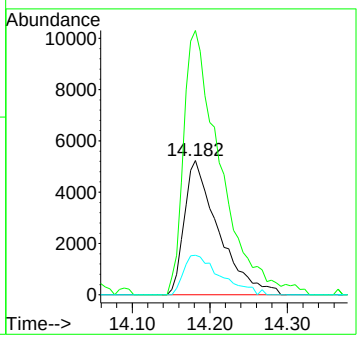


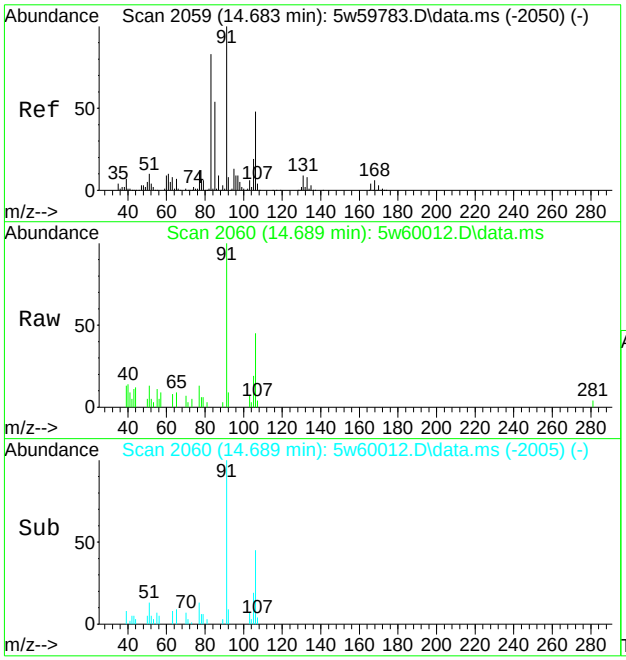


#80
m,p-XYLENE
Concen: 0.1972 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion:106 Resp: 16048

Ion	Ratio	Lower	Upper
106	100		
91	196.8	171.0	231.0
77	29.5	0.0	56.7

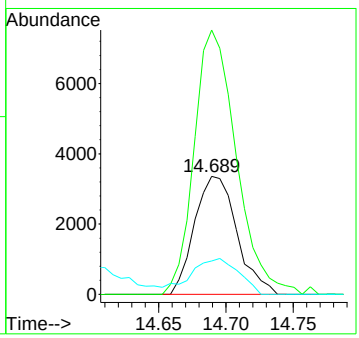


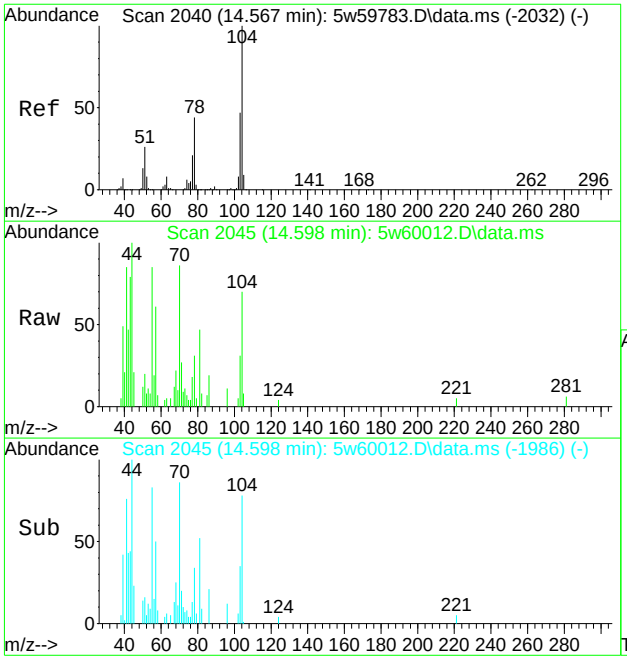


#81
o-XYLENE
Concen: 0.0965 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion:106 Resp: 7356

Ion	Ratio	Lower	Upper
106	100		
91	223.9	181.6	241.6
77	31.5	0.0	56.6

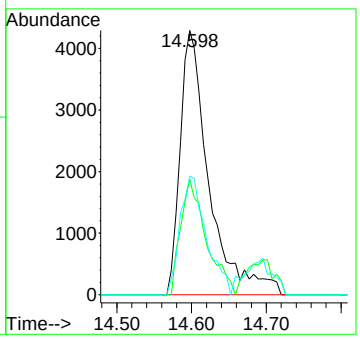


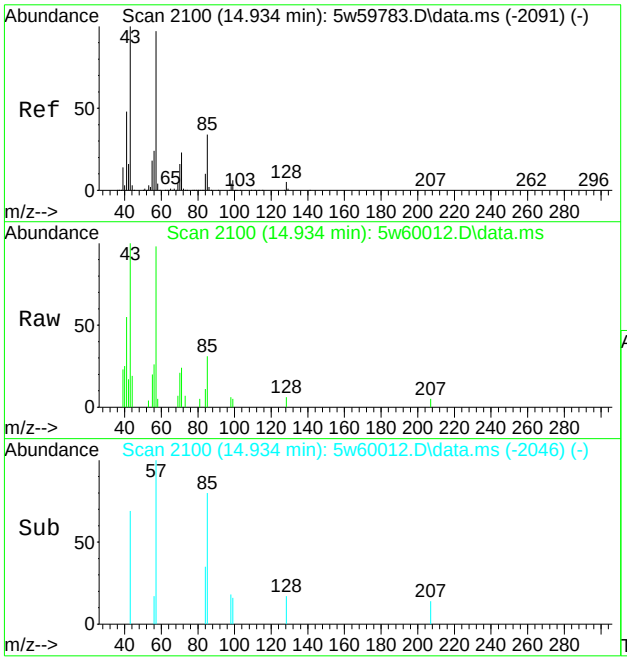


#82
STYRENE
Concen: 0.0964 PPBV
RT: 14.598 min Scan# 2045
Delta R.T. 0.031 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion:104 Resp: 11459

Ion	Ratio	Lower	Upper
104	100		
78	38.8	13.3	73.3
103	40.8	17.2	77.2

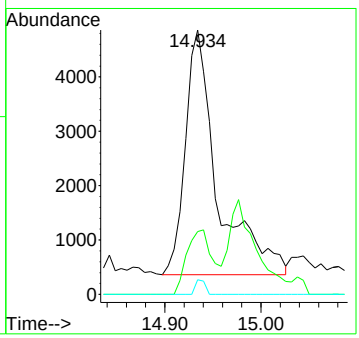


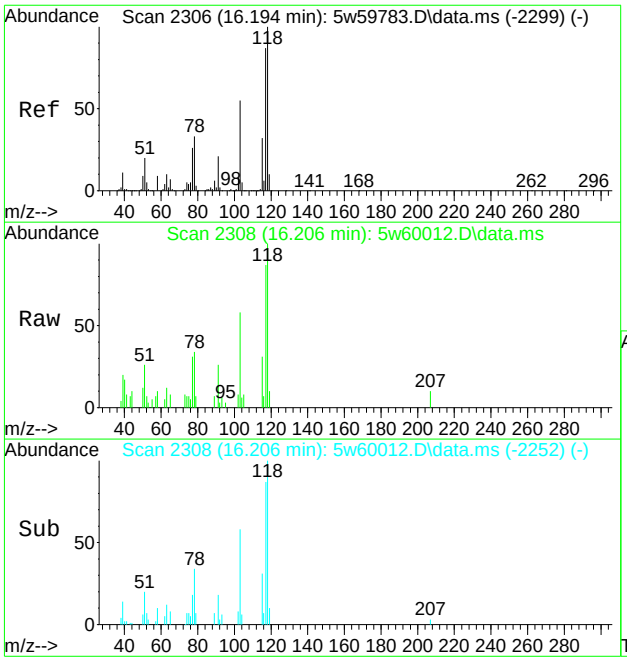


#83
NONANE
Concen: 0.1014 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion: 43 Resp: 10492

Ion	Ratio	Lower	Upper
43	100		
71	21.5	0.0	52.7
128	1.8	0.0	34.7

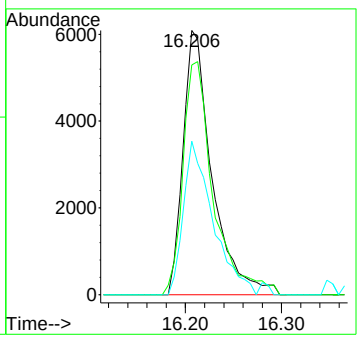




#94
ALPHA-METHYLSTYRENE
Concen: 0.1304 PPBV
RT: 16.206 min Scan# 2308
Delta R.T. 0.012 min
Lab File: 5w60012.D
Acq: 24 Nov 2025 7:25 pm

Tgt Ion:118 Resp: 12748

Ion	Ratio	Lower	Upper
118	100		
117	92.2	60.9	113.1
103	59.2	38.6	71.8



Manual Integration Approval Summary

Sample Number: JE23791-2
Lab FileID: 5W60012.D
Injection Time: 11/24/25 19:25

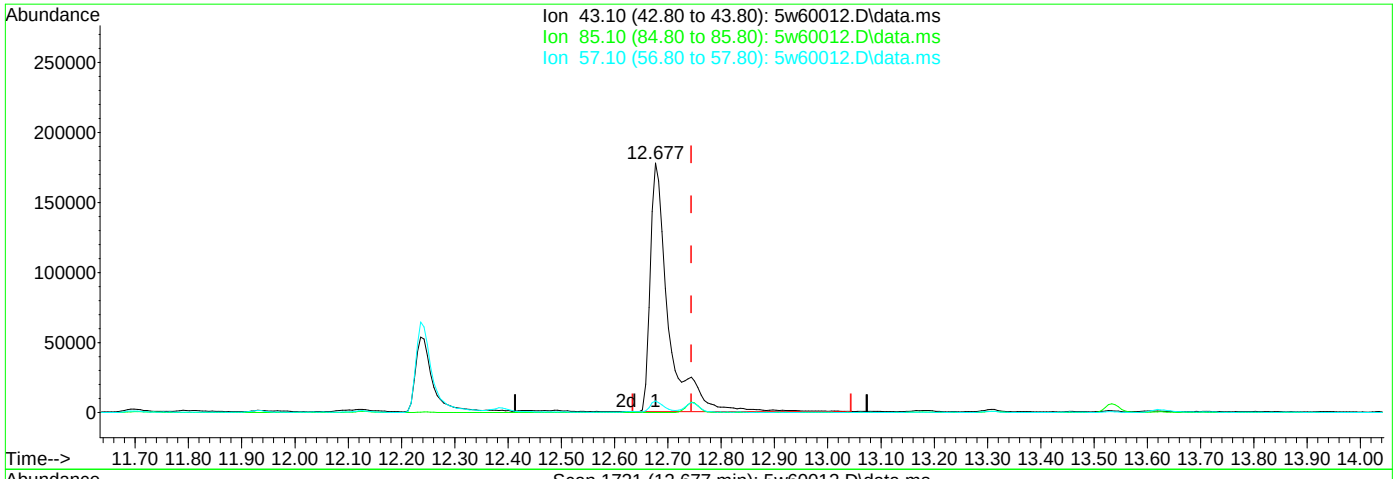
Method: TO-15
Analyst approved: 11/25/25 13:00 Claire Basilio
Supervisor approved: 11/26/25 16:12 Kanya Veerawat

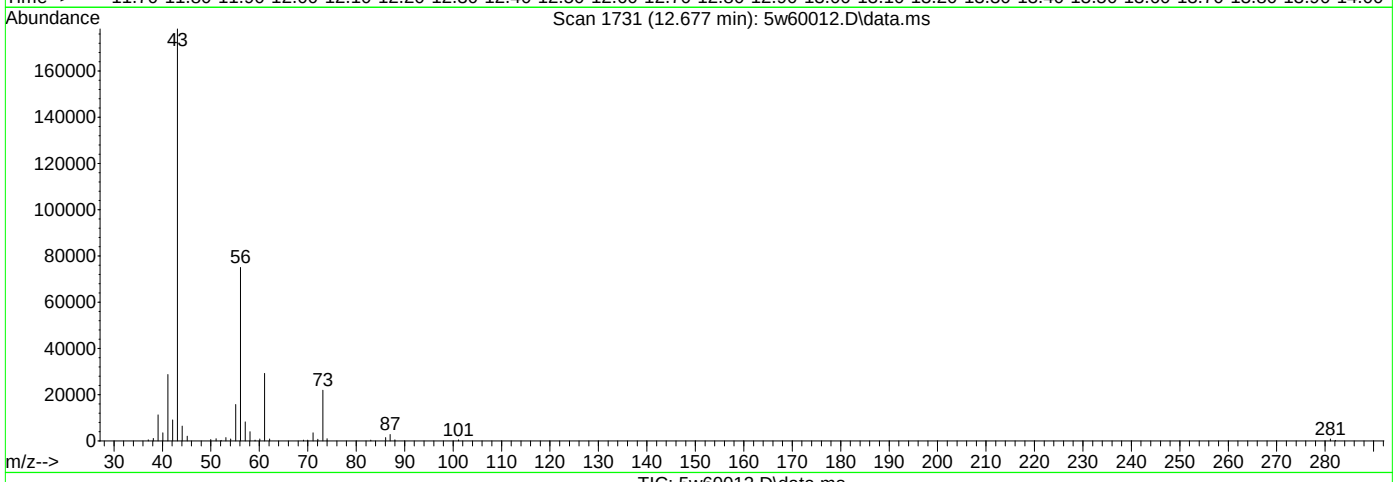
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octane	111-65-9		12.74	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60012.D
Acq On : 24 Nov 2025 7:25 pm
Operator : benk
Sample : je23791-2 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 26 00:03:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration





TIC: 5w60012.D\data.ms

(76) OCTANE

12.677min (-0.067) 4.20PPBV

response 429725

Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	3.60#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60030.D
Acq On : 25 Nov 2025 8:34 am
Operator : benk
Sample : je23791-2
Misc : MS99437,V5W2301,50,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 26 16:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

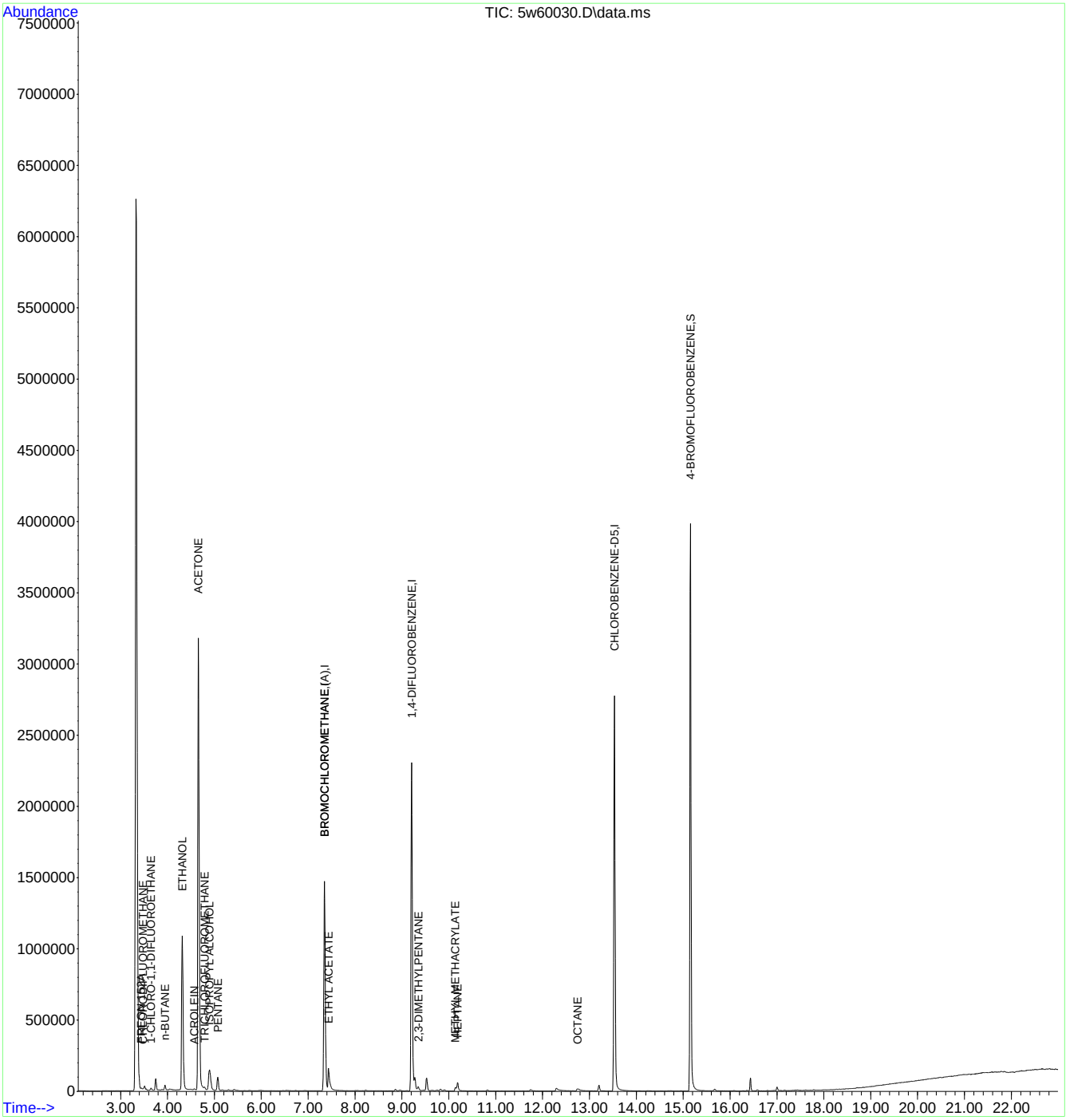
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	474173	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2069410	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	971499	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	474173	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1344988	11.08	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 110.80%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	6398	0.1819	PPBV	98
4) CHLORODIFLUOROMETHANE	3.470	67	1970	0.1339	PPBV #	1
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	12878	0.1172	PPBV #	90
13) n-BUTANE	3.947	43	28975	0.6412	PPBV	96
18) ACROLEIN	4.571	56	5464	0.3724	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.791	101	11939	0.1030	PPBV	97
22) ISOPROPYL ALCOHOL	4.895	45	301062	3.2378	PPBV	92
23) ACETONE	4.656	58	1570387	84.4419	PPBV	87
24) PENTANE	5.072	42	44140	0.9137	PPBV	93
28) ETHANOL	4.314	45	1452694	93.2532	PPBV	98
44) ETHYL ACETATE	7.434	61	37865	2.7056	PPBV	97
54) 2,3-DIMETHYLPENTANE	9.349	71	4453	0.1591	PPBV #	87
62) HEPTANE	10.187	43	22653	0.2840	PPBV	98
63) METHYL METHACRYLATE	10.144	69	21030	0.4654	PPBV #	52
76) OCTANE	12.744	43	35320	0.3827	PPBV #	32

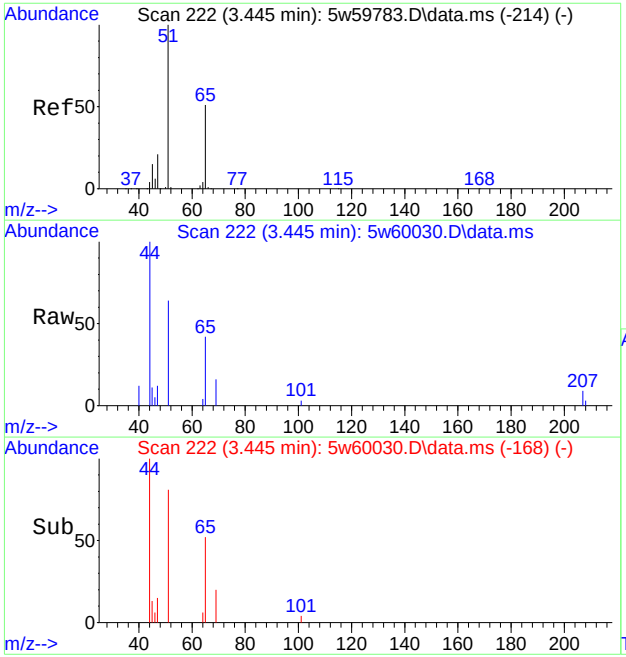
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60030.D
Acq On : 25 Nov 2025 8:34 am
Operator : benk
Sample : je23791-2
Misc : MS99437,V5W2301,50,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 26 16:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

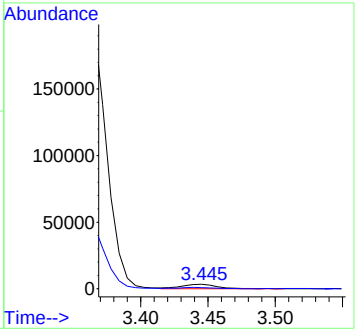


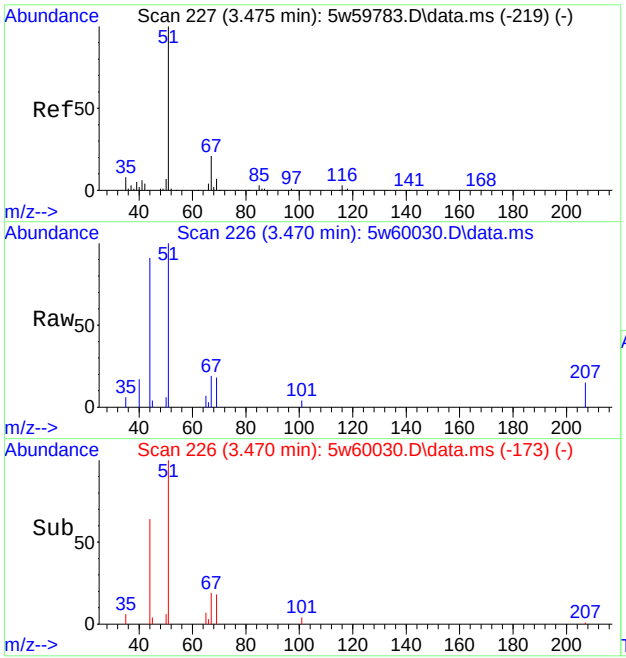


#3
FREON 152A
Concen: 0.18 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 65 Resp: 6398

Ion	Ratio	Lower	Upper
65	100		
45	31.3	0.0	60.0

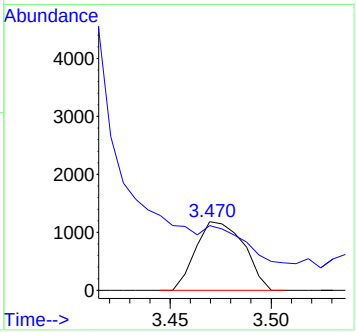


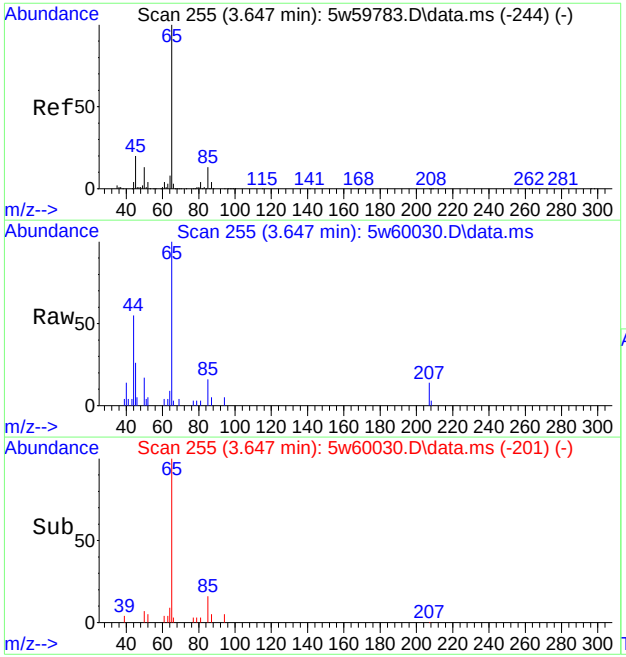


#4
CHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 3.470 min Scan# 226
Delta R.T. -0.005 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 67 Resp: 1970

Ion	Ratio	Lower	Upper
67	100		
69	94.6	1.0	61.0#

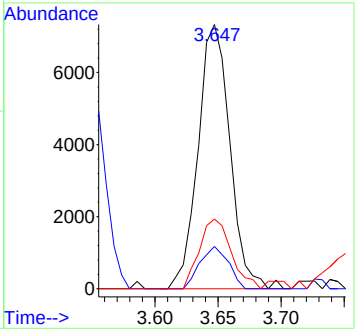


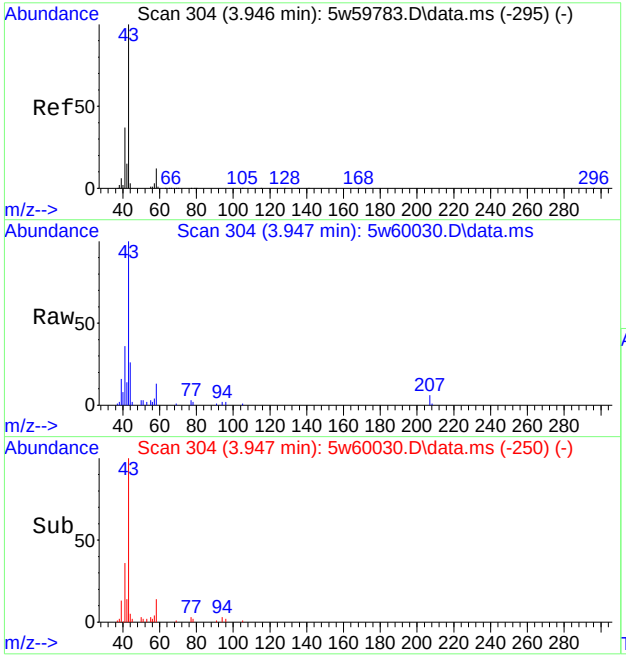


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.12 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 65 Resp: 12878

Ion	Ratio	Lower	Upper
65	100		
85	14.3	11.5	21.3
45	26.3	14.0	26.0#

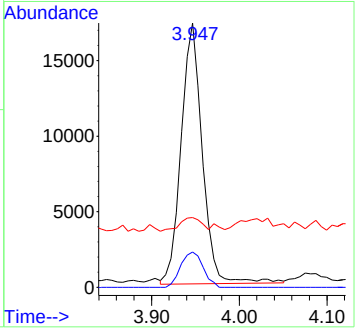


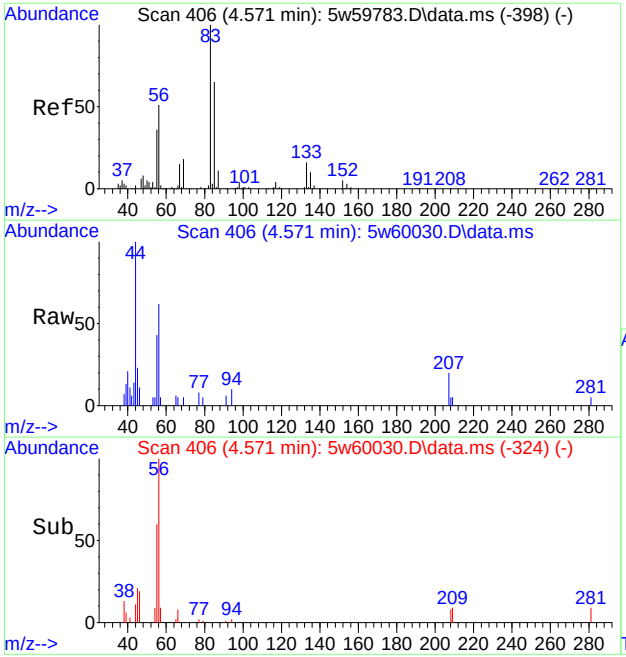


#13
n-BUTANE
Concen: 0.64 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 43 Resp: 28975

Ion	Ratio	Lower	Upper
43	100		
58	14.4	0.0	42.6
44	6.1	0.0	34.9

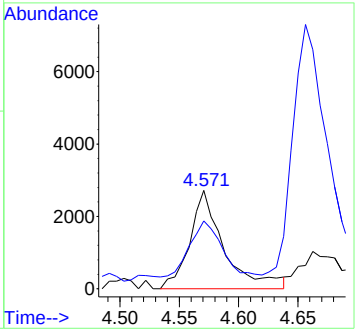


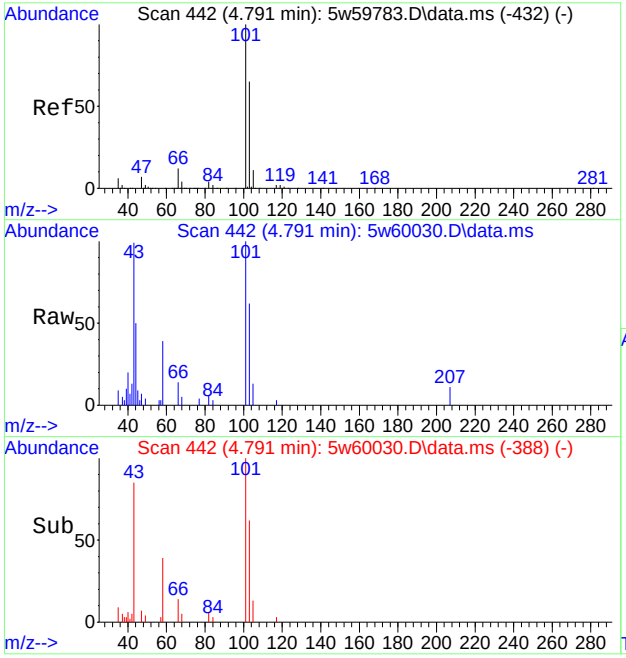


#18
ACROLEIN
Concen: 0.37 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 56 Resp: 5464

Ion	Ratio	Lower	Upper
56	100		
55	63.7	46.6	86.6

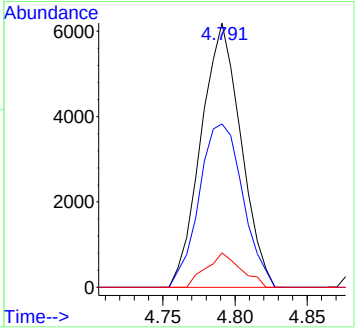


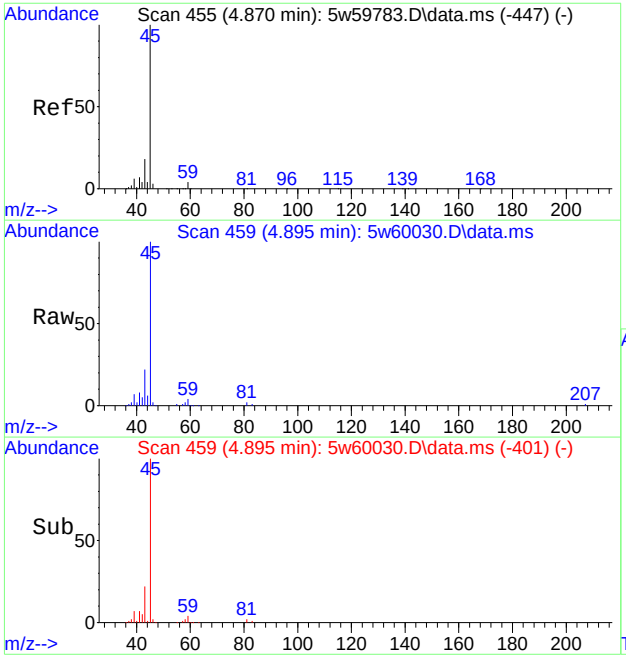


#21
TRICHLOROFLUOROMETHANE
Concen: 0.10 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion:101 Resp: 11939

Ion	Ratio	Lower	Upper
101	100		
103	67.8	35.0	95.0
105	11.3	0.0	40.7

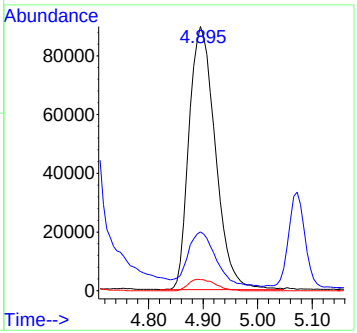


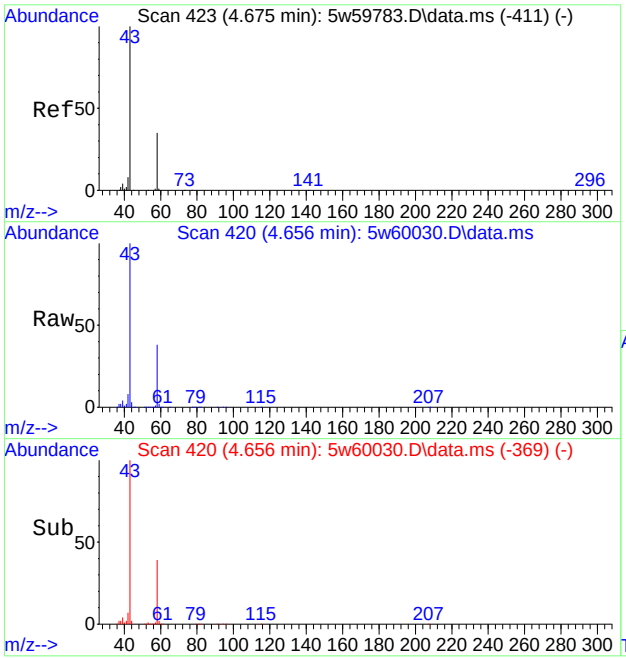


#22
ISOPROPYL ALCOHOL
Concen: 3.24 PPBV
RT: 4.895 min Scan# 459
Delta R.T. 0.025 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 45 Resp: 301062

Ion	Ratio	Lower	Upper
45	100		
43	22.2	0.0	47.8
59	4.2	0.0	34.1

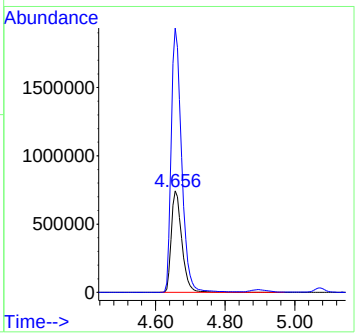


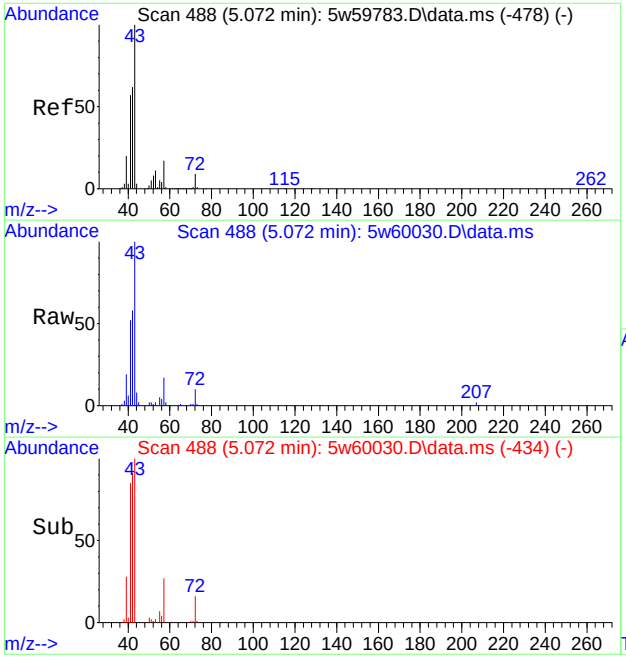


#23
ACETONE
Concen: 84.44 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 58 Resp: 1570387

Ion	Ratio	Lower	Upper
58	100		
43	256.9	252.3	312.3

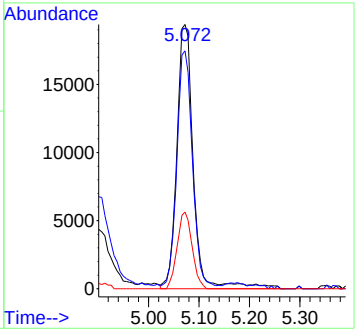


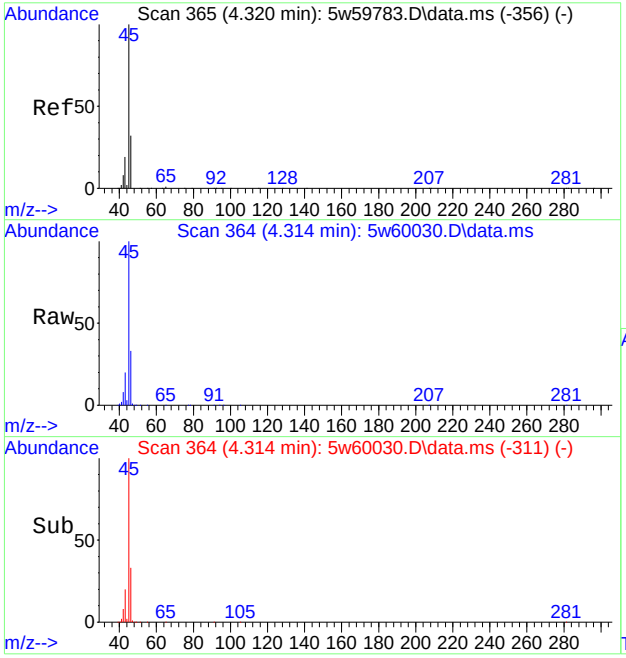


#24
PENTANE
Concen: 0.91 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 42 Resp: 44140

Ion	Ratio	Lower	Upper
42	100		
41	84.7	62.3	122.3
57	26.2	0.0	57.7

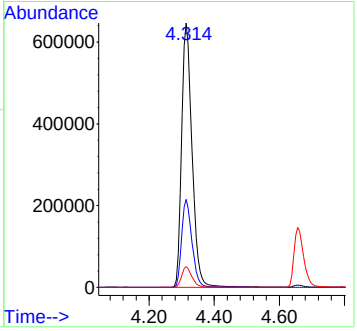


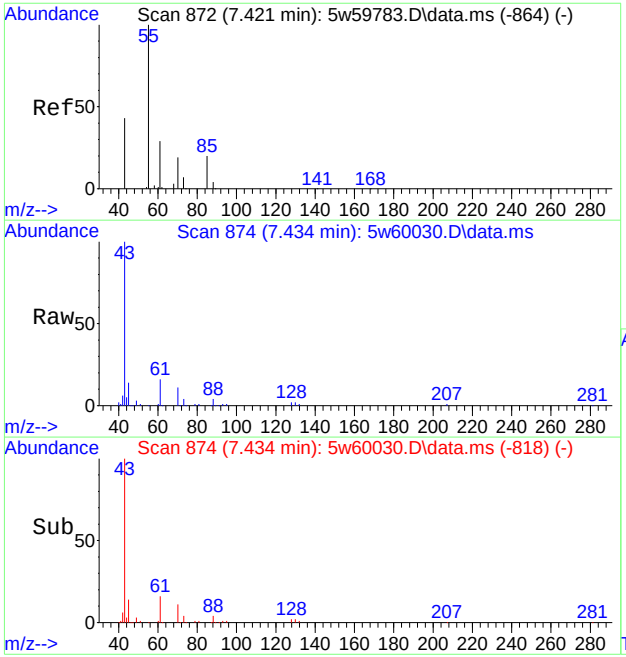


#28
ETHANOL
Concen: 93.25 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 45 Resp: 1452694

Ion	Ratio	Lower	Upper
45	100		
46	33.1	2.0	62.0
42	7.8	0.0	38.5

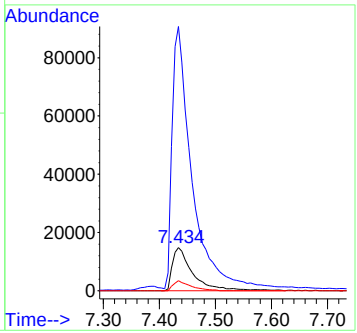


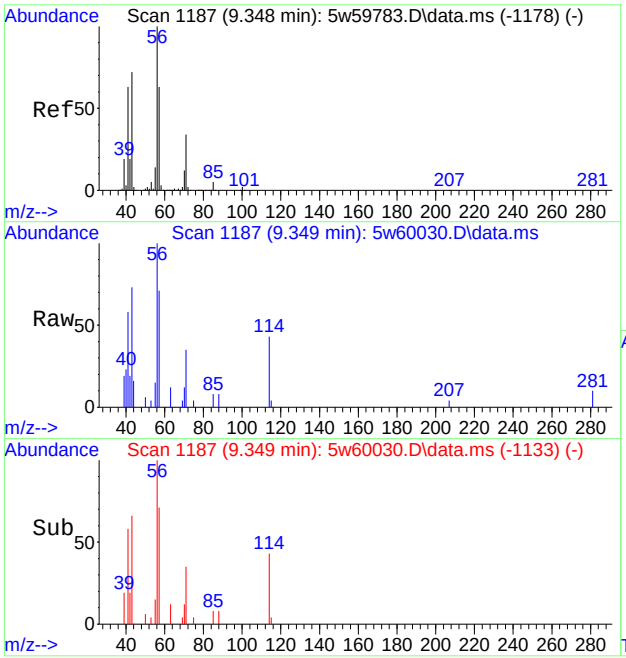


#44
ETHYL ACETATE
Concen: 2.71 PPBV
RT: 7.434 min Scan# 874
Delta R.T. 0.013 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 61 Resp: 37865

Ion	Ratio	Lower	Upper
61	100		
43	595.0	560.5	620.5
88	19.9	4.5	64.5

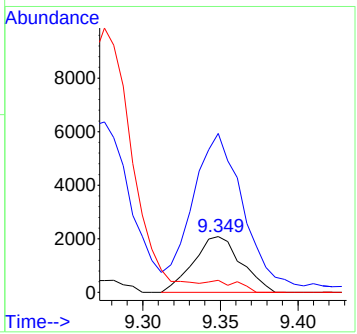


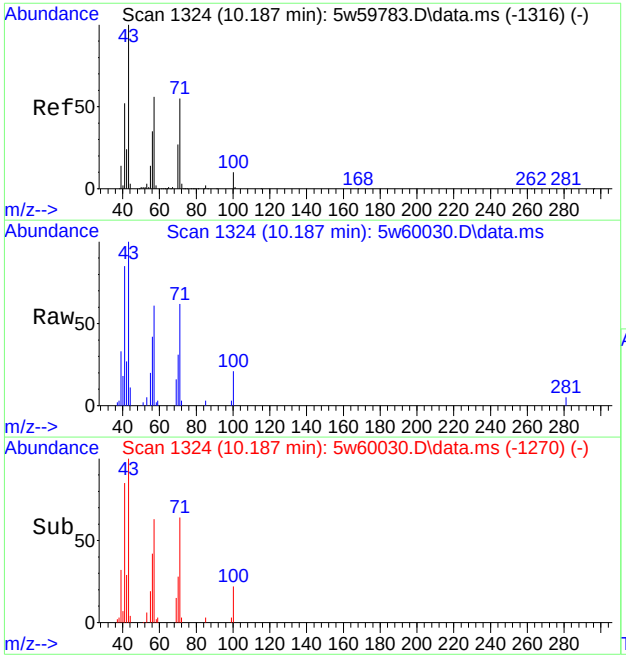


#54
2,3-DIMETHYLPENTANE
Concen: 0.16 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 71 Resp: 4453

Ion	Ratio	Lower	Upper
71	100		
56	317.1	264.6	324.6
85	0.0	0.0	45.3

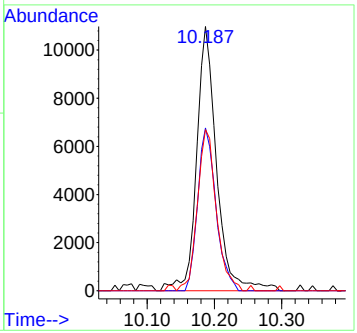


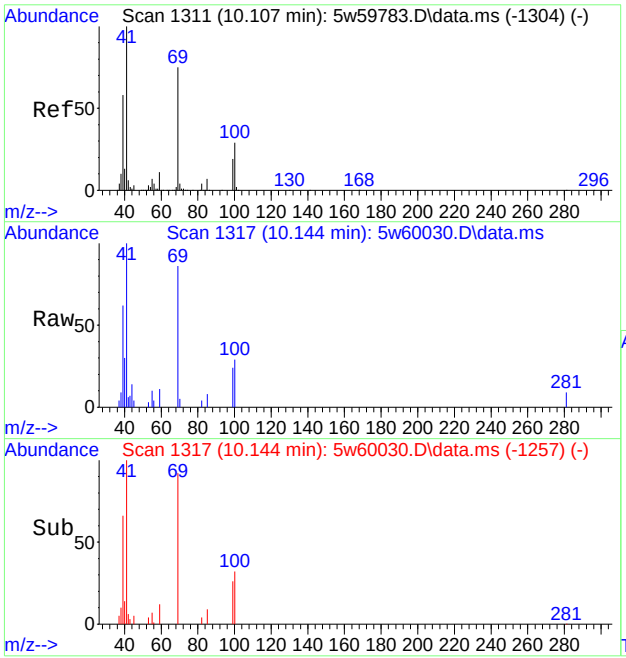


#62
HEPTANE
Concen: 0.28 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 43 Resp: 22653

Ion	Ratio	Lower	Upper
43	100		
71	56.3	24.5	84.5
57	57.6	26.2	86.2

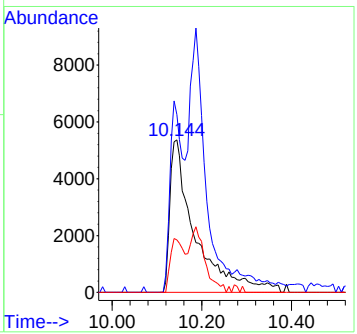


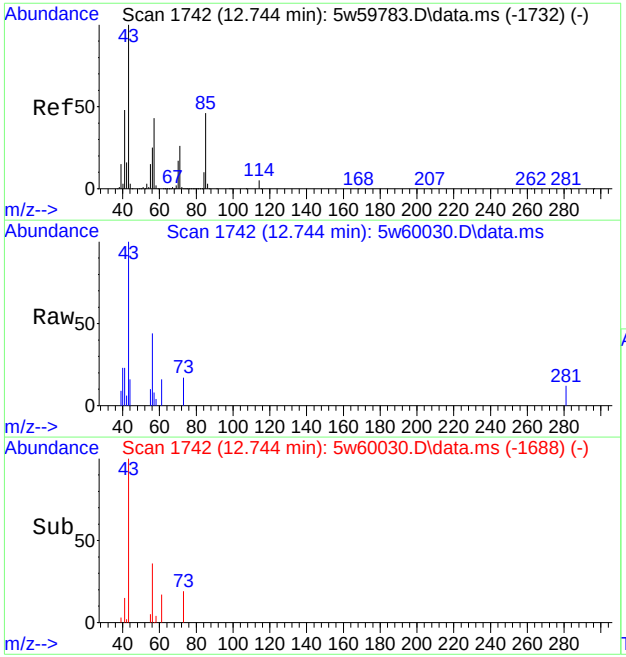


#63
METHYL METHACRYLATE
Concen: 0.47 PPBV
RT: 10.144 min Scan# 1317
Delta R.T. 0.037 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 69 Resp: 21030

Ion	Ratio	Lower	Upper
69	100		
41	63.2	95.3	155.3#
100	20.7	6.3	66.3

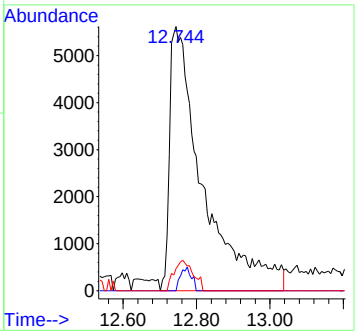




#76
OCTANE
Concen: 0.38 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60030.D
Acq: 25 Nov 2025 8:34 am

Tgt Ion: 43 Resp: 35320

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	0.0	13.7	73.7#



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60039.D
Acq On : 25 Nov 2025 3:53 pm
Operator : benk
Sample : je23791-2 Inst : GCMS5W
Misc : MS99437,V5W2302,25,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 27 00:50:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

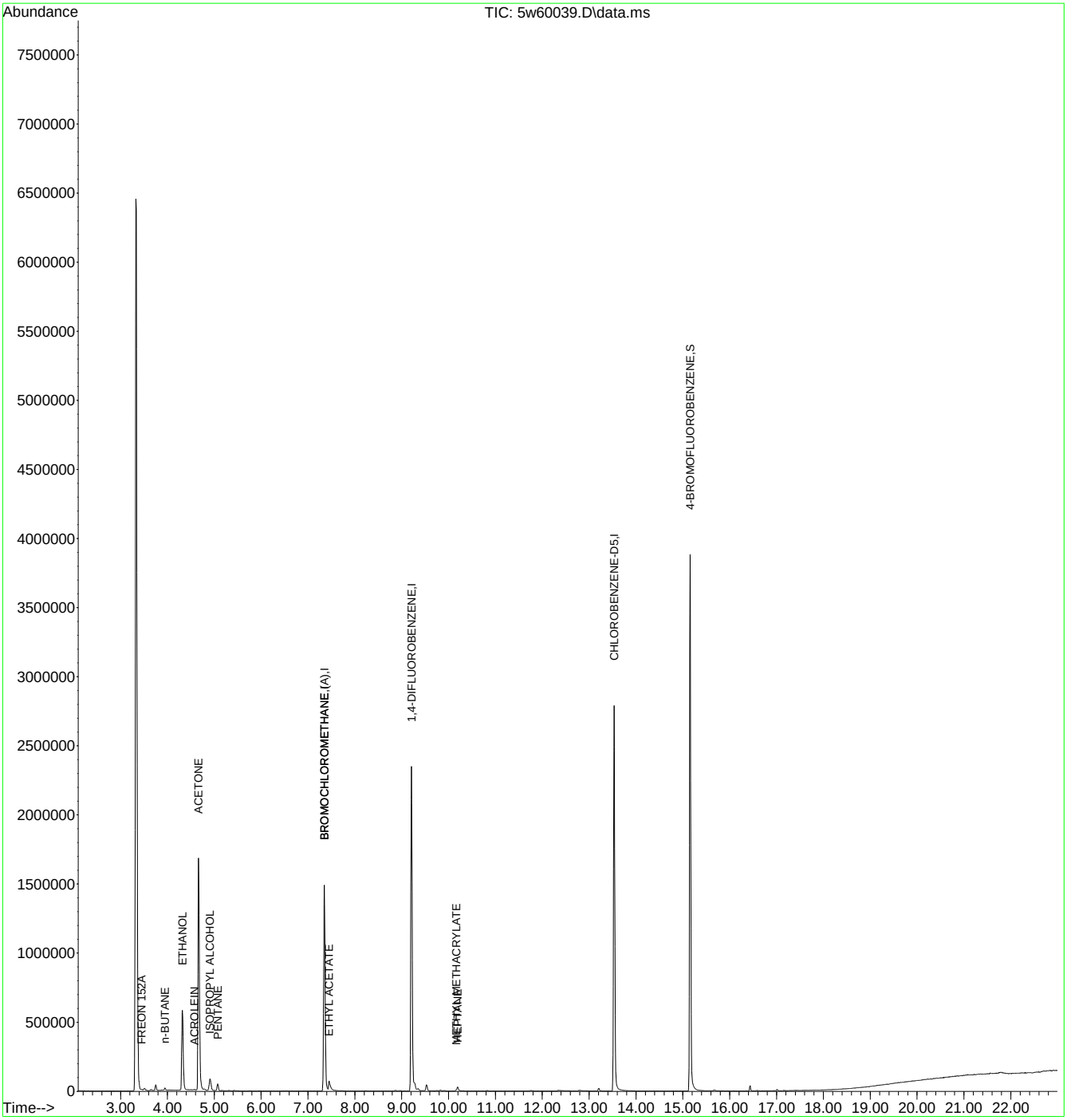
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	485702	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2116733	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	975259	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	486537	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1323231	10.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.60%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	3538	0.0982	PPBV	88
13) n-BUTANE	3.947	43	14389	0.3108	PPBV	97
18) ACROLEIN	4.577	56	2970	0.1976	PPBV #	54
22) ISOPROPYL ALCOHOL	4.907	45	152249	1.5985	PPBV	91
23) ACETONE	4.662	58	838849	44.0354	PPBV	87
24) PENTANE	5.072	42	22033	0.4453	PPBV	98
28) ETHANOL	4.320	45	787757	49.3683	PPBV	98
44) ETHYL ACETATE	7.446	61	18690	1.3037	PPBV	97
62) HEPTANE	10.193	43	11021	0.1351	PPBV	98
63) METHYL METHACRYLATE	10.162	69	9088	0.1966	PPBV #	1

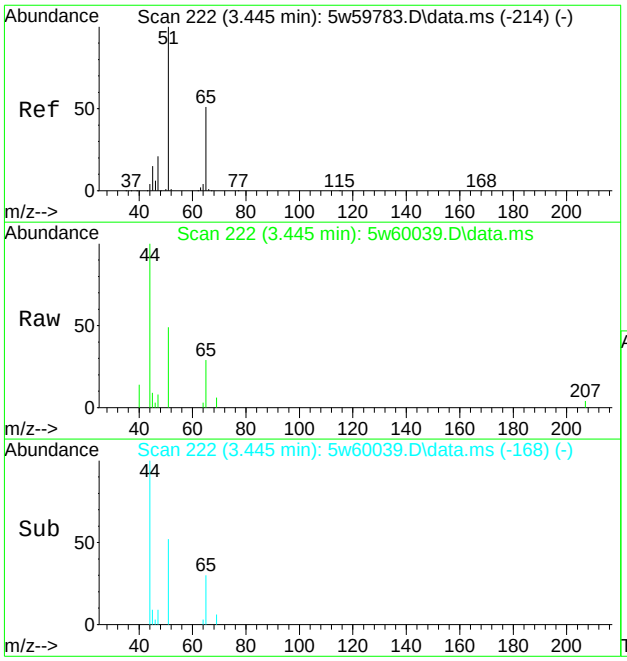
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60039.D
Acq On : 25 Nov 2025 3:53 pm
Operator : benk
Sample : je23791-2 Inst : GCMS5W
Misc : MS99437,V5W2302,25,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 27 00:50:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

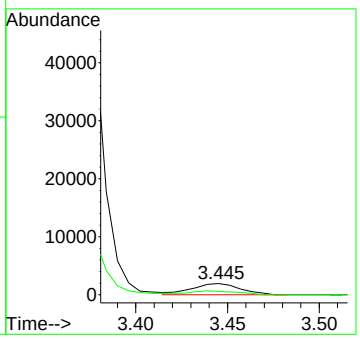


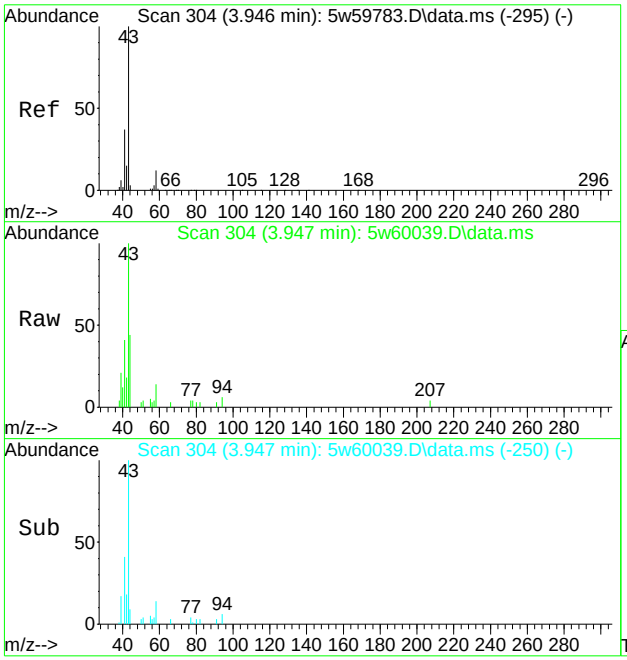


#3
FREON 152A
Concen: 0.0982 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 65 Resp: 3538

Ion	Ratio	Lower	Upper
65	100		
45	36.4	0.0	60.0

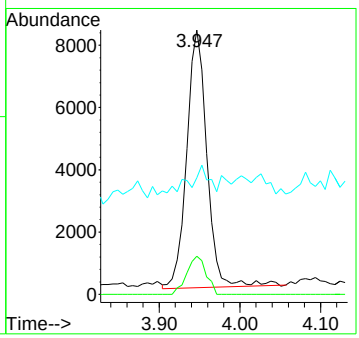


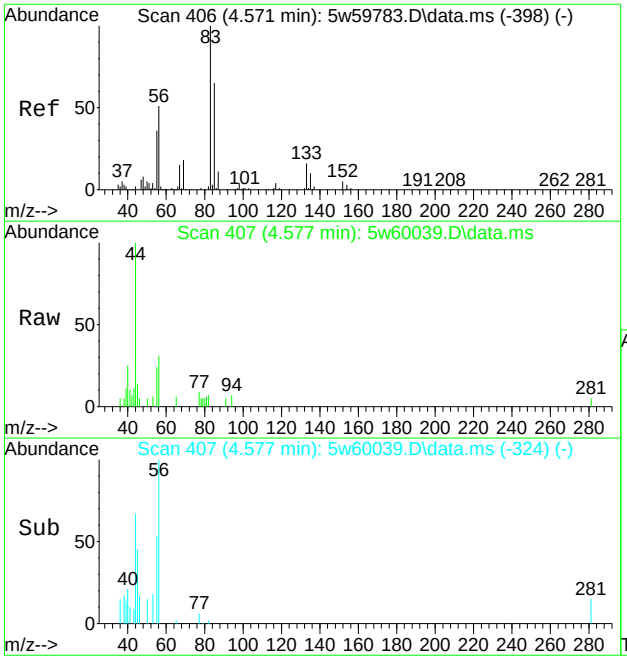


#13
n-BUTANE
Concen: 0.3108 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 43 Resp: 14389

Ion	Ratio	Lower	Upper
43	100		
58	14.1	0.0	42.6
44	5.2	0.0	34.9

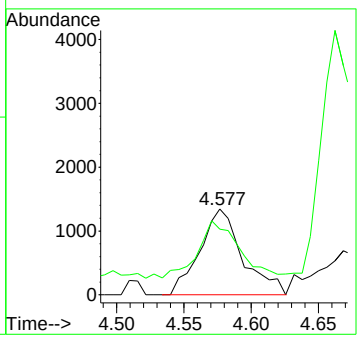


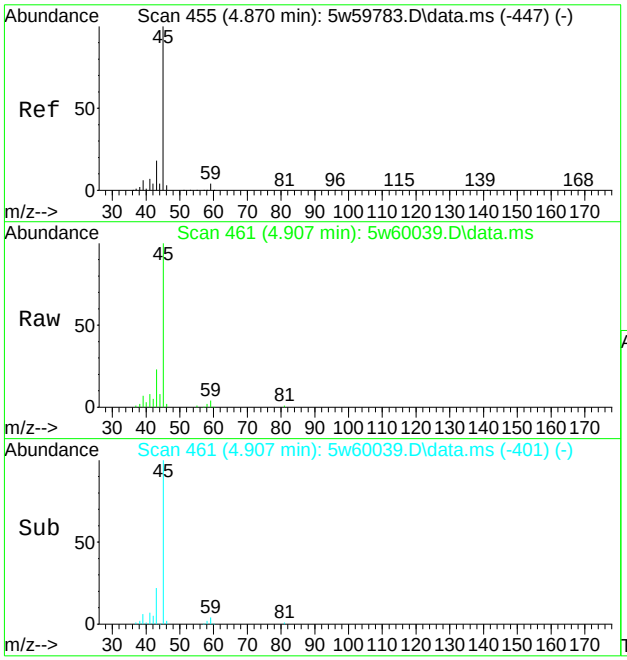


#18
ACROLEIN
Concen: 0.1976 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 56 Resp: 2970

Ion	Ratio	Lower	Upper
56	100		
55	103.4	46.6	86.6#

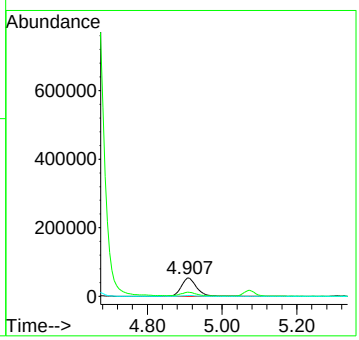


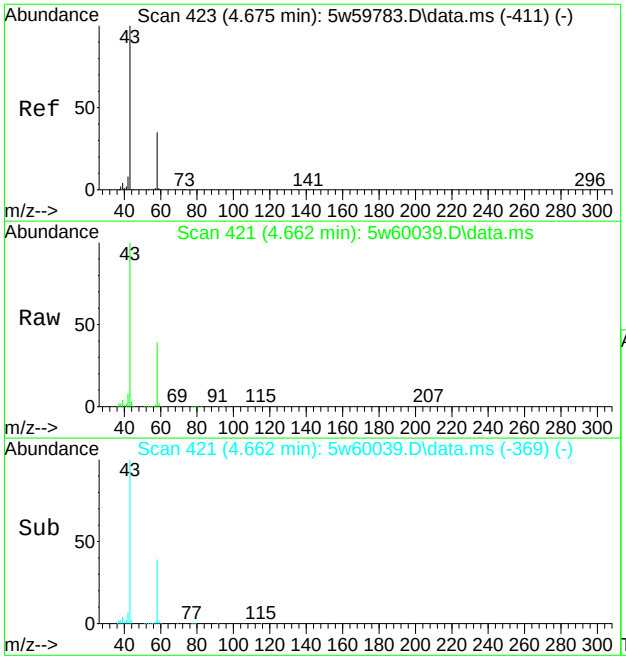


#22
ISOPROPYL ALCOHOL
Concen: 1.5985 PPBV
RT: 4.907 min Scan# 461
Delta R.T. 0.037 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 45 Resp: 152249

Ion	Ratio	Lower	Upper
45	100		
43	22.6	0.0	47.8
59	4.3	0.0	34.1

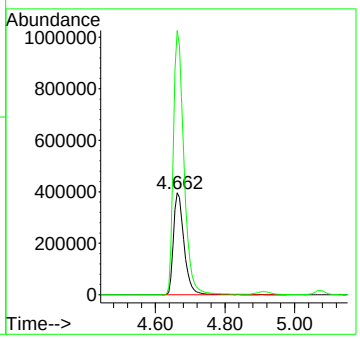


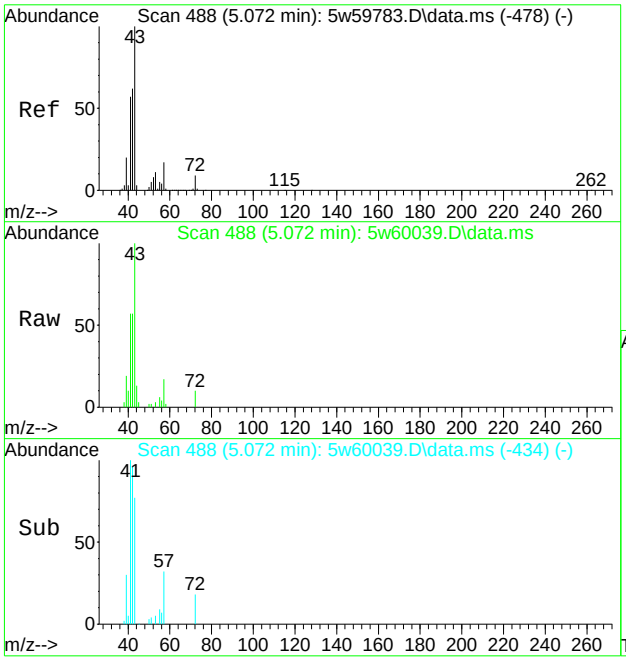


#23
ACETONE
Concen: 44.0354 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 58 Resp: 838849

Ion	Ratio	Lower	Upper
58	100		
43	257.8	252.3	312.3

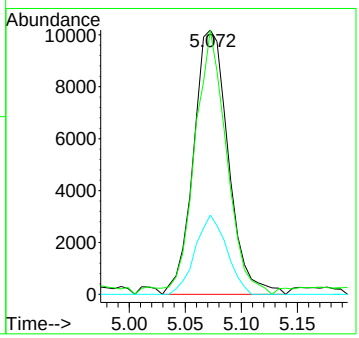


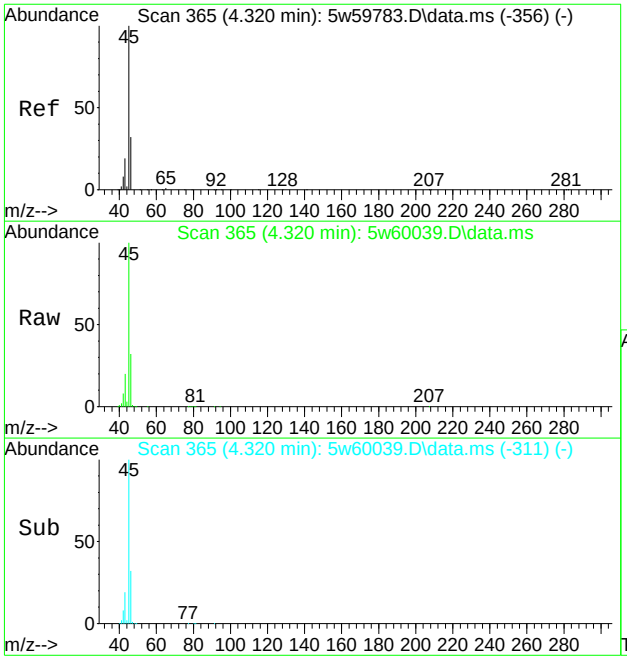


#24
PENTANE
Concen: 0.4453 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 42 Resp: 22033

Ion	Ratio	Lower	Upper
42	100		
41	90.7	62.3	122.3
57	27.1	0.0	57.7

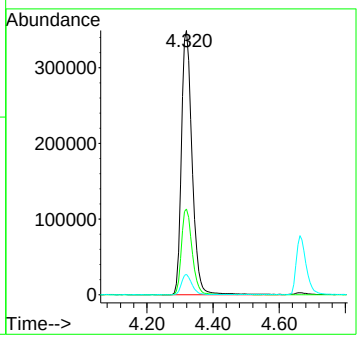


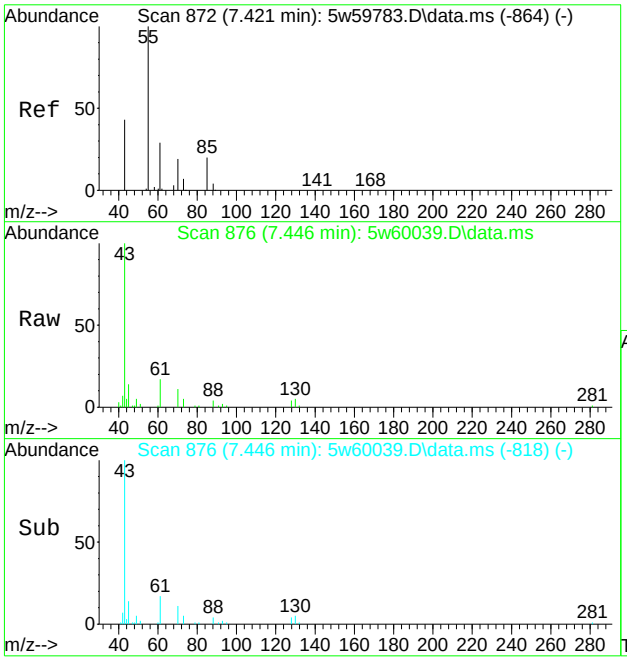


#28
ETHANOL
Concen: 49.3683 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 45 Resp: 787757

Ion	Ratio	Lower	Upper
45	100		
46	32.6	2.0	62.0
42	7.4	0.0	38.5

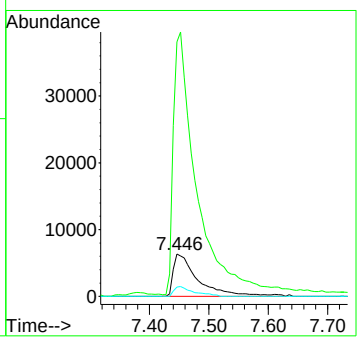


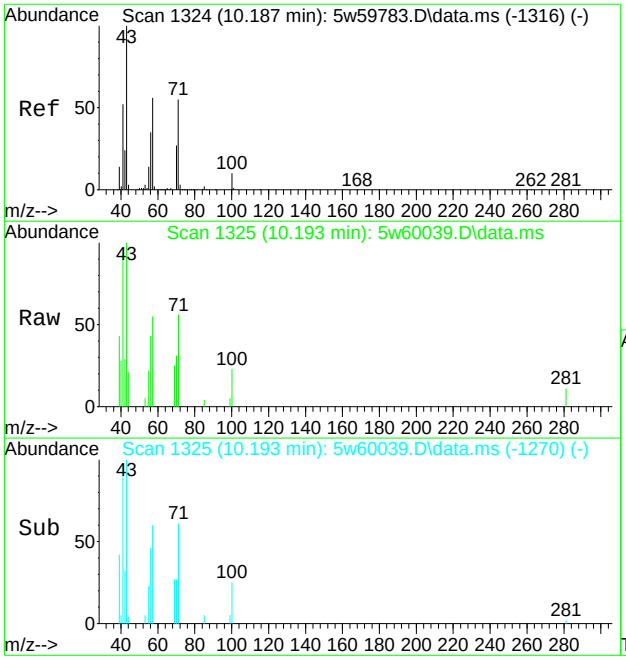


#44
ETHYL ACETATE
Concen: 1.3037 PPBV
RT: 7.446 min Scan# 876
Delta R.T. 0.025 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 61 Resp: 18690

Ion	Ratio	Lower	Upper
61	100		
43	596.2	560.5	620.5
88	18.4	4.5	64.5

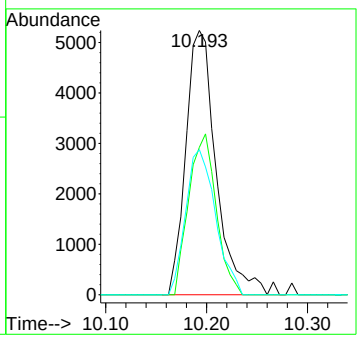


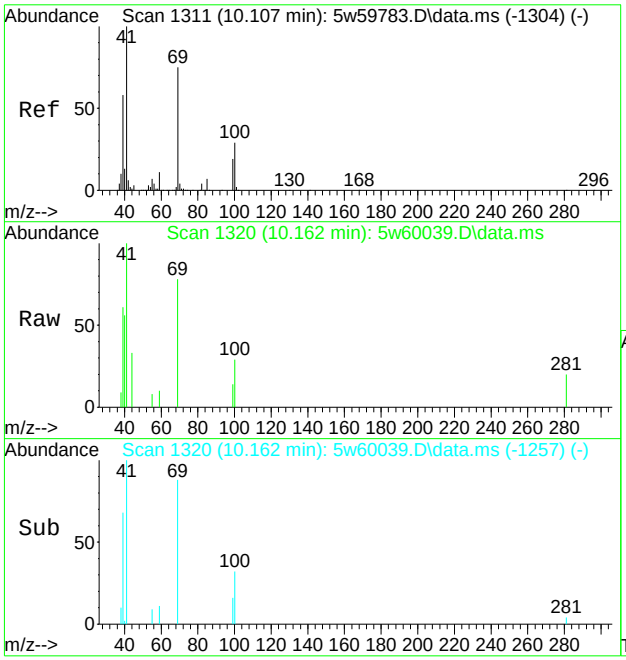


#62
HEPTANE
Concen: 0.1351 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 43 Resp: 11021

Ion	Ratio	Lower	Upper
43	100		
71	54.7	24.5	84.5
57	53.9	26.2	86.2

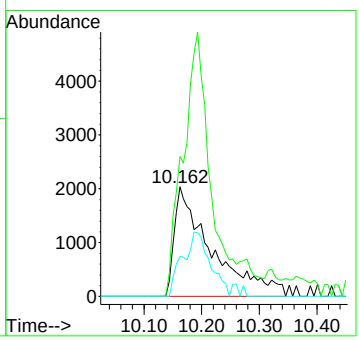




#63
METHYL METHACRYLATE
Concen: 0.1966 PPBV
RT: 10.162 min Scan# 1320
Delta R.T. 0.055 min
Lab File: 5w60039.D
Acq: 25 Nov 2025 3:53 pm

Tgt Ion: 69 Resp: 9088

Ion	Ratio	Lower	Upper
69	100		
41	0.0	95.3	155.3#
100	0.0	6.3	66.3#



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 19:22

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 5w60013.D
Acq On : 24 Nov 2025 8:08 pm
Operator : benk
Sample : je23791-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 26 00:21:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

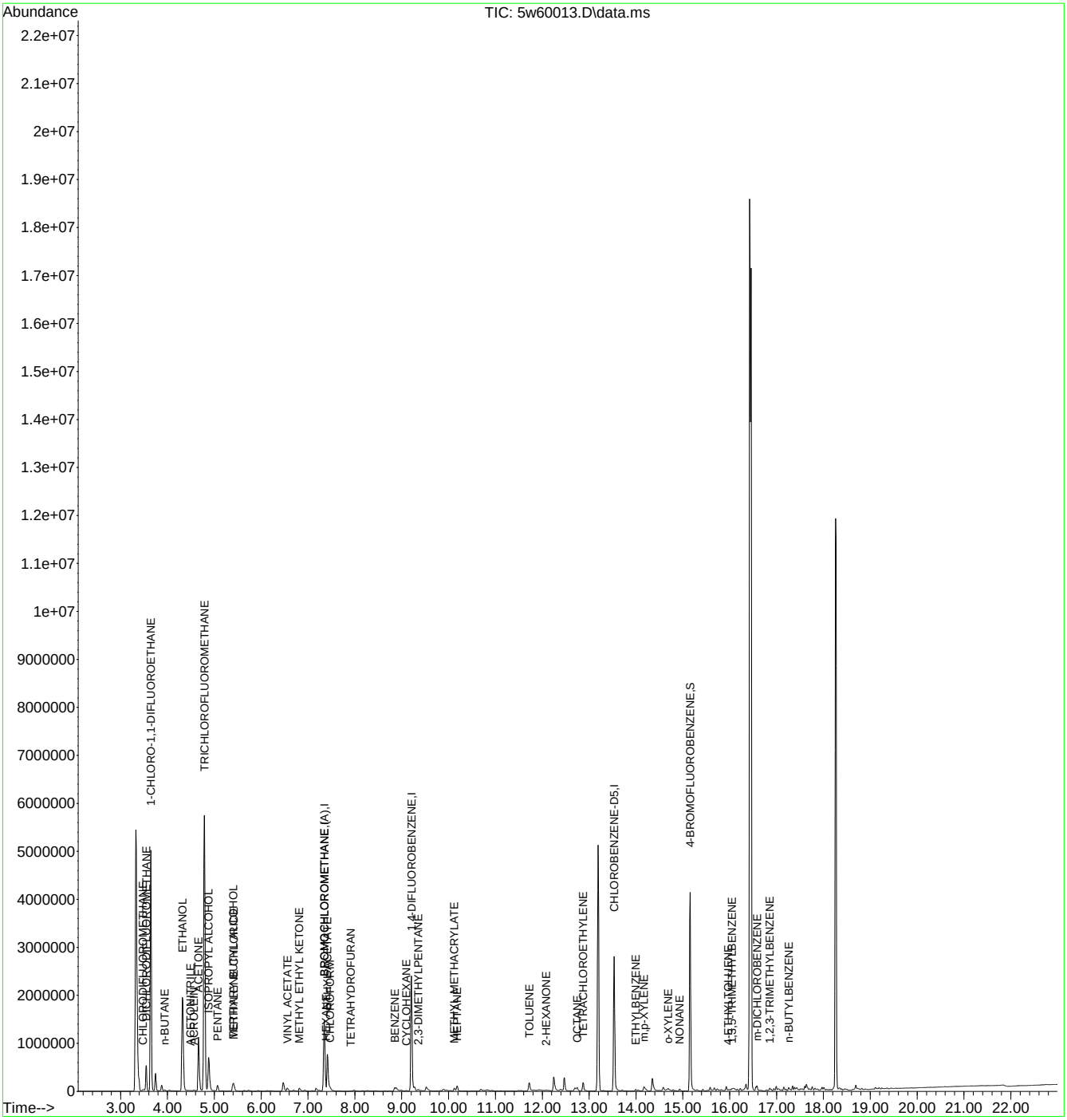
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	475205	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2156975	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	973217	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	475205	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1379990	11.35	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 113.50%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	3.475	67	5609	0.3805	PPBV	55
6) DICHLORODIFLUOROMETHANE	3.549	85	478132	3.5158	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	4637857	42.1098	PPBV	97
13) n-BUTANE	3.940	43	18628	0.4113	PPBV	97
17) ACETONITRILE	4.491	41	3872	0.1497	PPBV #	85
18) ACROLEIN	4.564	56	14304	0.9729	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.791	101	5475614	47.1369	PPBV	99
22) ISOPROPYL ALCOHOL	4.876	45	1040364	11.1645	PPBV	98
23) ACETONE	4.662	58	523876	28.1084	PPBV #	83
24) PENTANE	5.066	42	55770	1.1520	PPBV	92
28) ETHANOL	4.320	45	2776896	177.8709	PPBV	99
31) METHYLENE CHLORIDE	5.415	84	21429	0.4494	PPBV	95
35) TERTIARY BUTYL ALCOHOL	5.402	59	243545	2.5559	PPBV	96
37) TETRAHYDROFURAN	7.911	72	2081	0.1128	PPBV #	1
38) HEXANE	7.385	57	21929	0.2890	PPBV	91
39) VINYL ACETATE	6.559	86	6883	0.8971	PPBV #	43
41) METHYL ETHYL KETONE	6.816	72	27531	1.4999	PPBV #	85
44) ETHYL ACETATE	7.415	61	165841	11.8240	PPBV	92
46) CHLOROFORM	7.470	83	37202	0.3521	PPBV	98
52) BENZENE	8.853	78	81424	0.5635	PPBV	98
53) CYCLOHEXANE	9.098	84	6005	0.1040	PPBV #	69
54) 2,3-DIMETHYLPENTANE	9.348	71	5533	0.1897	PPBV #	49
62) HEPTANE	10.180	43	54943	0.6608	PPBV	90
63) METHYL METHACRYLATE	10.119	69	32821	0.6969	PPBV	79
66) TOLUENE	11.722	92	81248	0.7522	PPBV	96
71) 2-HEXANONE	12.077	58	7080m	0.1391	PPBV	
73) TETRACHLOROETHYLENE	12.872	164	46776	0.7046	PPBV	99
76) OCTANE	12.744	43	52523m	0.5681	PPBV	
79) ETHYLBENZENE	13.992	91	34548	0.1852	PPBV	96
80) m,p-XYLENE	14.169	106	42879	0.5833	PPBV	96
81) o-XYLENE	14.683	106	17799	0.2586	PPBV	97
83) NONANE	14.934	43	19907	0.2129	PPBV	96
92) 4-ETHYLTOLUENE	15.968	105	19903m	0.1032	PPBV	
93) 1,3,5-TRIMETHYLBENZENE	16.047	105	18892	0.1054	PPBV	95
97) m-DICHLOROBENZENE	16.586	146	43078	0.3369	PPBV	98
101) 1,2,3-TRIMETHYLBENZENE	16.855	105	21784	0.1231	PPBV	80
104) n-BUTYLBENZENE	17.259	134	10971	0.2144	PPBV #	1

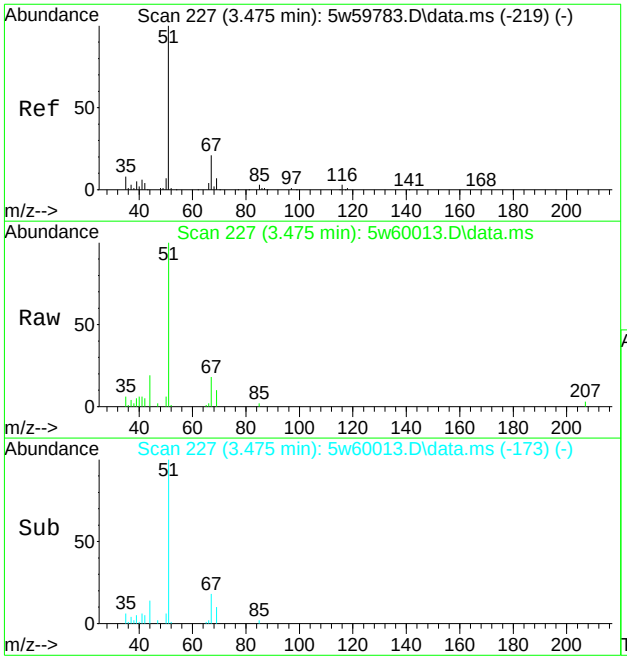
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60013.D
Acq On : 24 Nov 2025 8:08 pm
Operator : benk
Sample : je23791-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 26 00:21:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

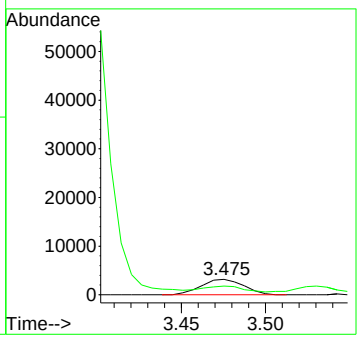


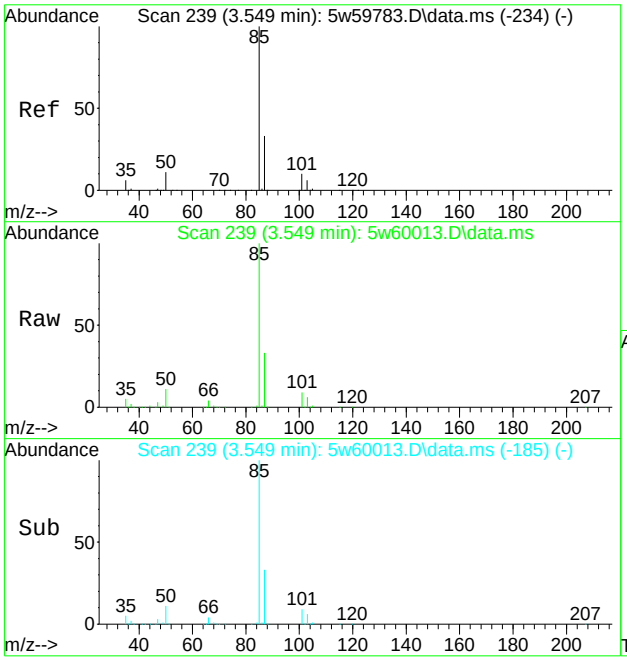


#4
CHLORODIFLUOROMETHANE
Concen: 0.3805 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 67 Resp: 5609

Ion	Ratio	Lower	Upper
67	100		
69	55.6	1.0	61.0

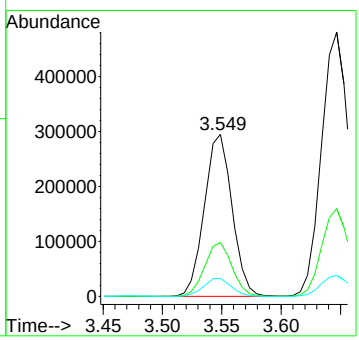


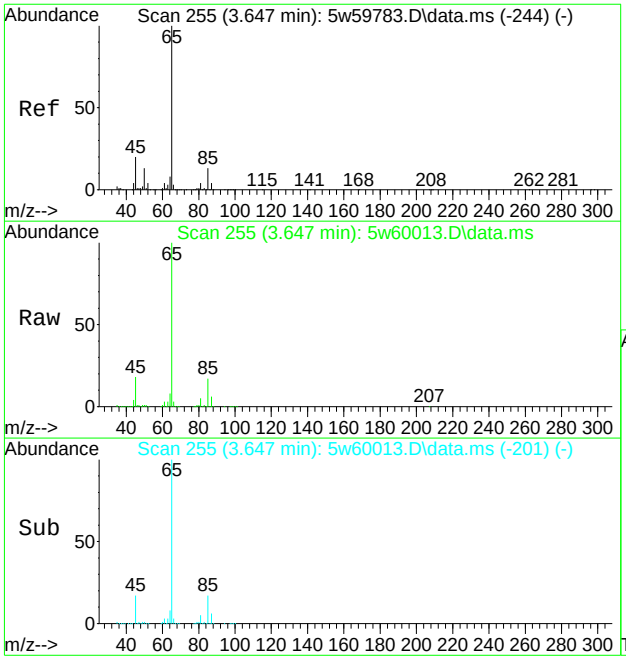


#6
DICHLORODIFLUOROMETHANE
Concen: 3.5158 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 85 Resp: 478132

Ion	Ratio	Lower	Upper
85	100		
87	32.9	2.5	62.5
50	11.3	0.0	41.7

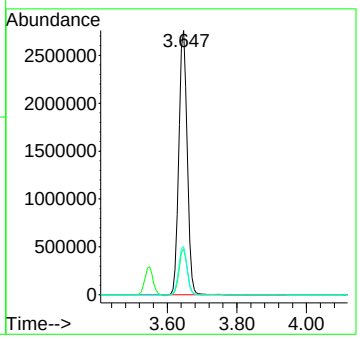


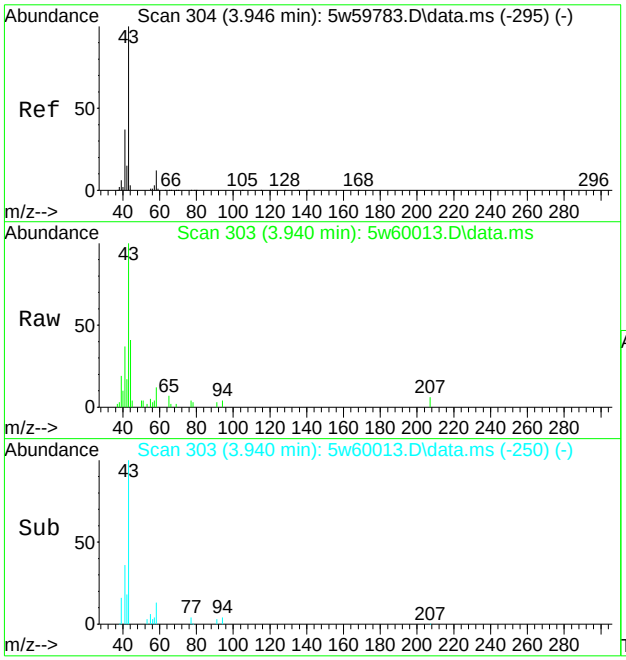


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 42.1098 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 65 Resp: 4637857

Ion	Ratio	Lower	Upper
65	100		
85	17.0	11.5	21.3
45	18.2	14.0	26.0

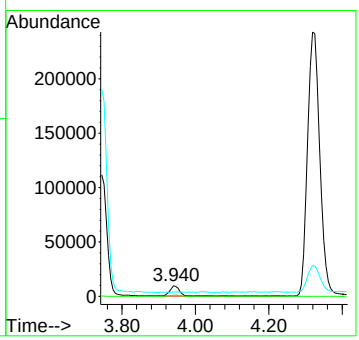


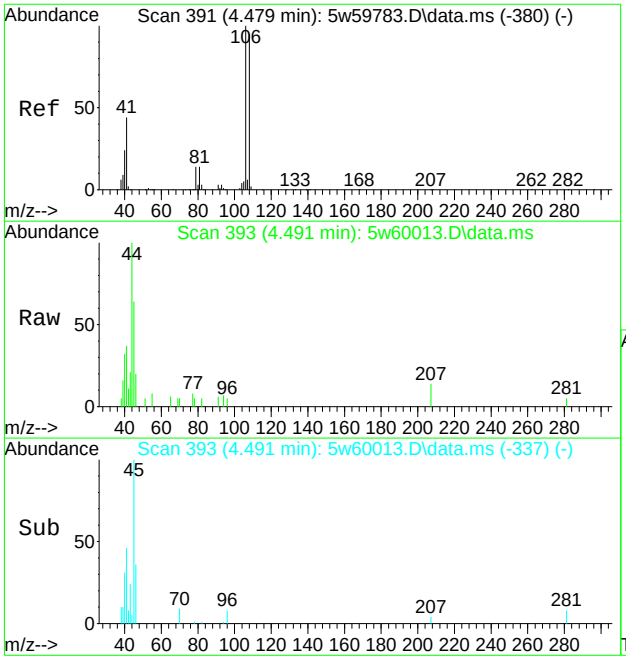


#13
n-BUTANE
Concen: 0.4113 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 43 Resp: 18628

Ion	Ratio	Lower	Upper
43	100		
58	11.1	0.0	42.6
44	4.6	0.0	34.9

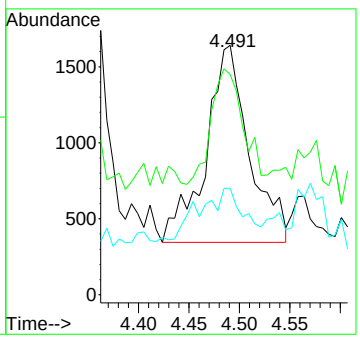


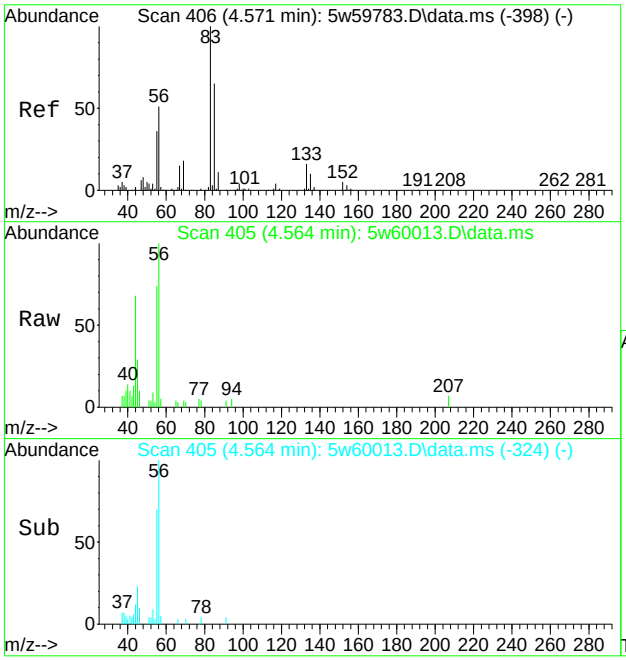


#17
ACETONITRILE
Concen: 0.1497 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 41 Resp: 3872

Ion	Ratio	Lower	Upper
41	100		
40	46.7	37.9	70.5
39	31.1	13.4	24.8#

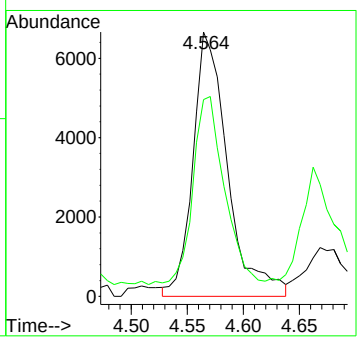


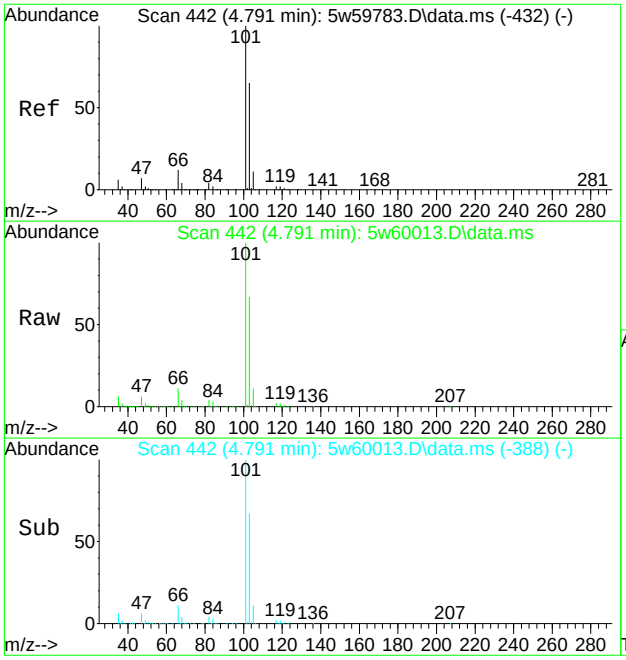


#18
ACROLEIN
Concen: 0.9729 PPBV
RT: 4.564 min Scan# 405
Delta R.T. -0.007 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 56 Resp: 14304

Ion	Ratio	Lower	Upper
56	100		
55	67.3	46.6	86.6

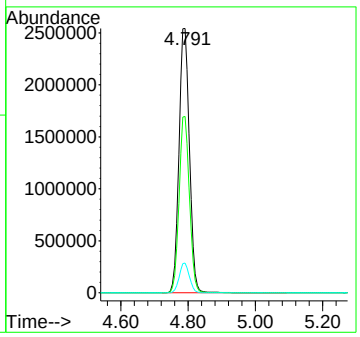


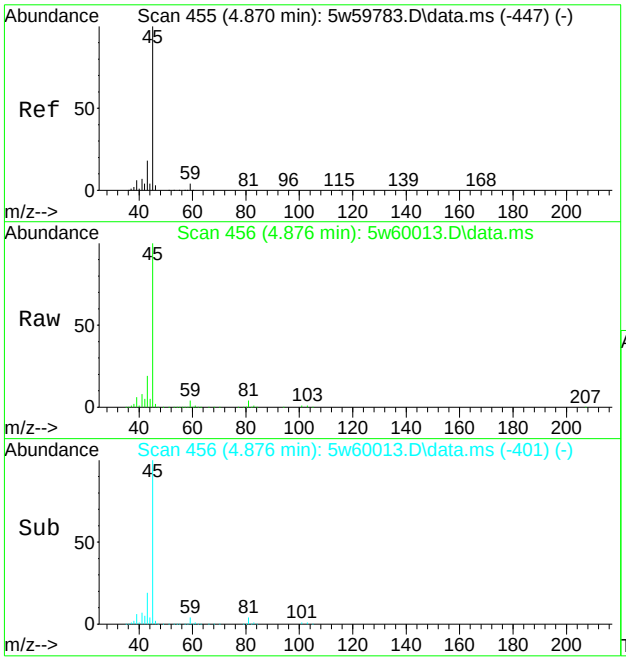


#21
TRICHLOROFLUOROMETHANE
Concen: 47.1369 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:101 Resp: 5475614

Ion	Ratio	Lower	Upper
101	100		
103	66.1	35.0	95.0
105	11.0	0.0	40.7

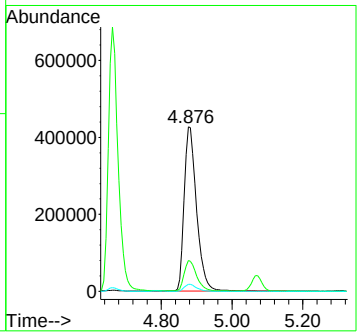


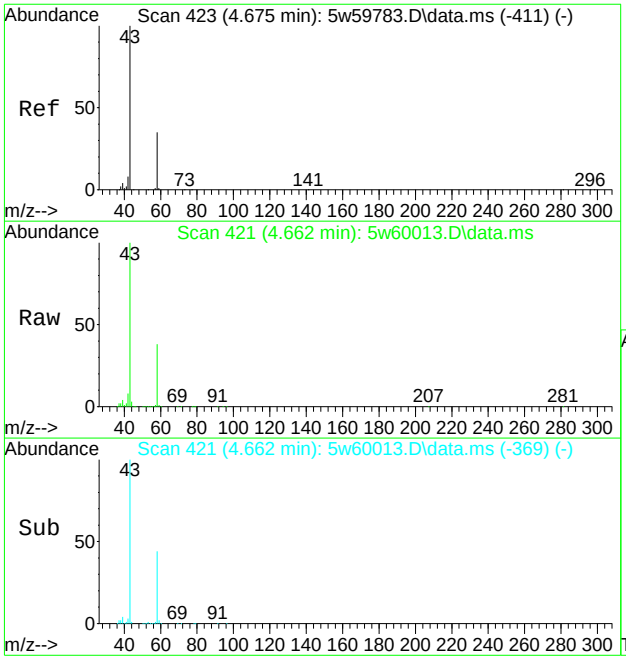


#22
ISOPROPYL ALCOHOL
Concen: 11.1645 PPBV
RT: 4.876 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 45 Resp: 1040364

Ion	Ratio	Lower	Upper
45	100		
43	18.8	0.0	47.8
59	4.3	0.0	34.1

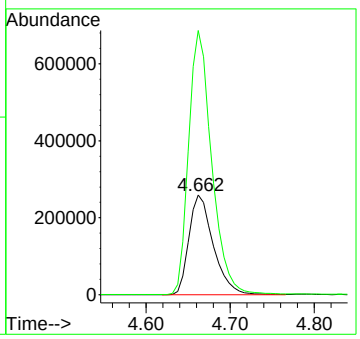


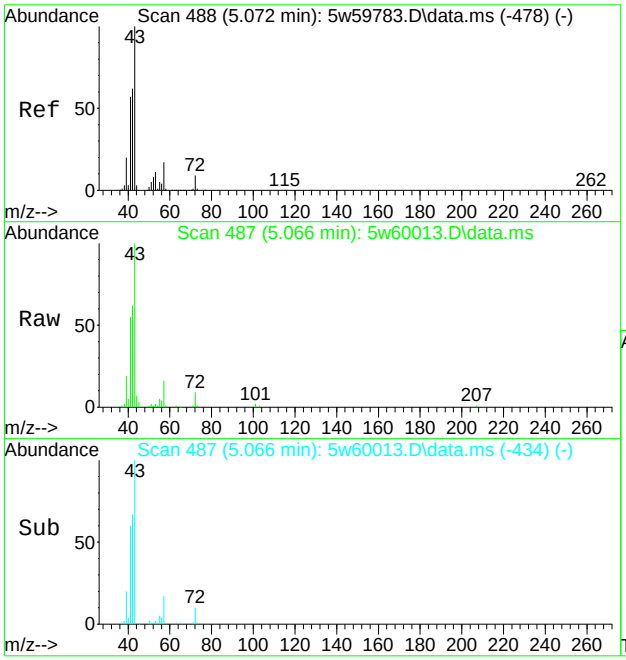


#23
ACETONE
Concen: 28.1084 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 58 Resp: 523876

Ion	Ratio	Lower	Upper
58	100		
43	250.6	252.3	312.3#

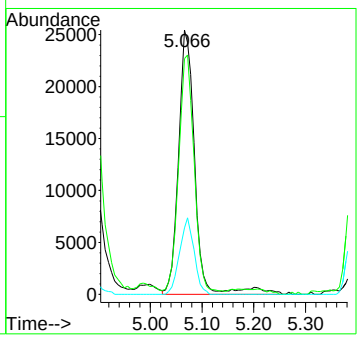


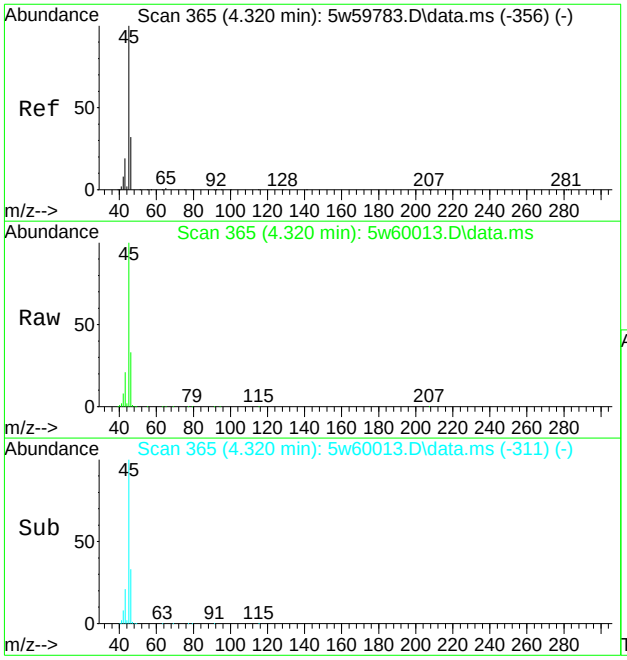


#24
PENTANE
Concen: 1.1520 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 42 Resp: 55770

Ion	Ratio	Lower	Upper
42	100		
41	83.9	62.3	122.3
57	25.8	0.0	57.7

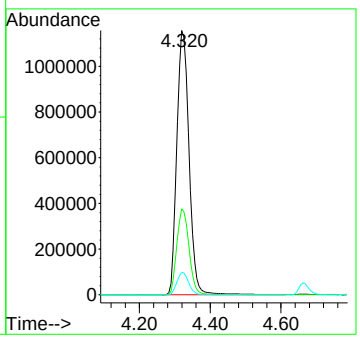


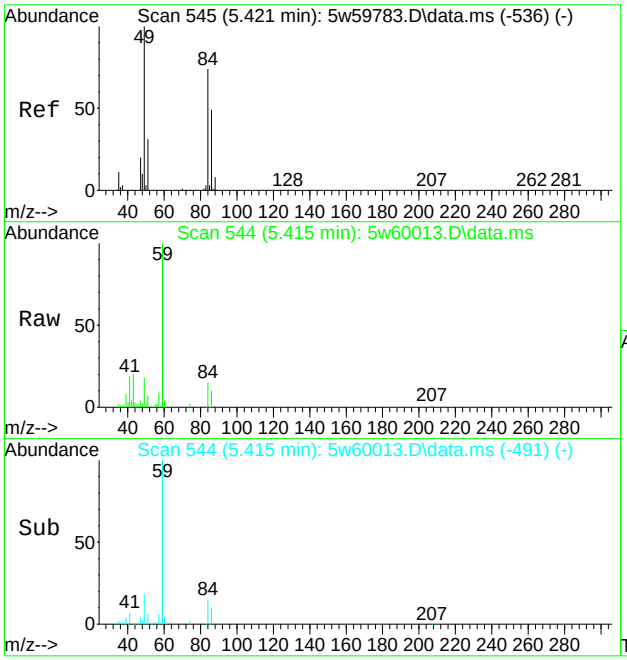


#28
ETHANOL
Concen: 177.8709 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 45 Resp: 2776896

Ion	Ratio	Lower	Upper
45	100		
46	32.7	2.0	62.0
42	8.3	0.0	38.5

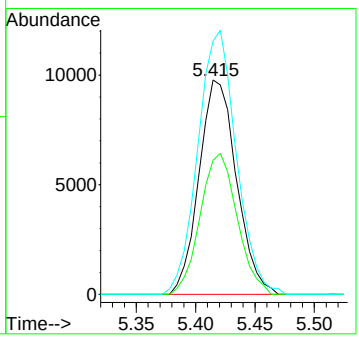


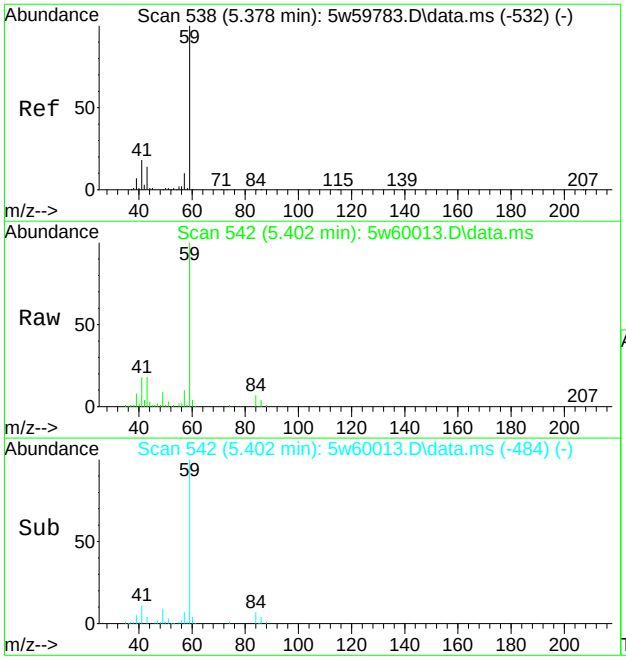


#31
METHYLENE CHLORIDE
Concen: 0.4494 PPBV
RT: 5.415 min Scan# 544
Delta R.T. -0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 84 Resp: 21429

Ion	Ratio	Lower	Upper
84	100		
86	64.8	35.2	95.2
49	126.3	105.3	165.3

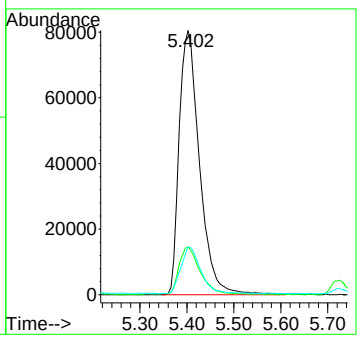


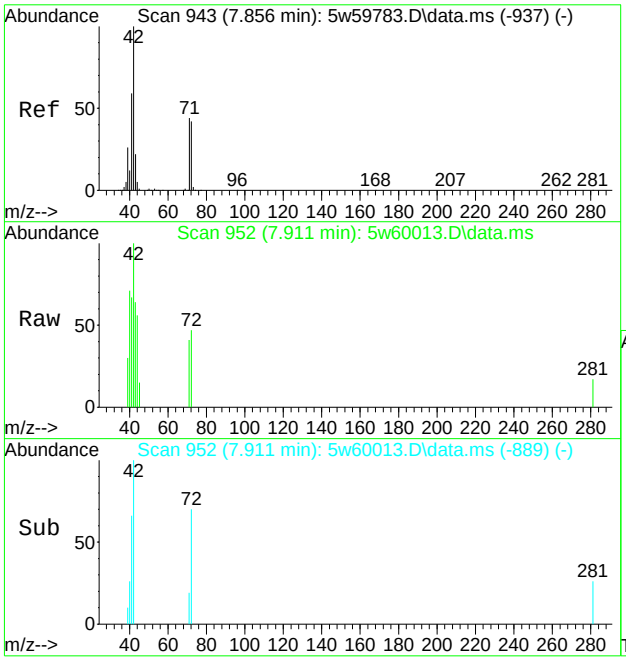


#35
TERTIARY BUTYL ALCOHOL
Concen: 2.5559 PPBV
RT: 5.402 min Scan# 542
Delta R.T. 0.024 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 59 Resp: 243545

Ion	Ratio	Lower	Upper
59	100		
41	19.2	0.0	49.3
43	17.4	0.0	44.1

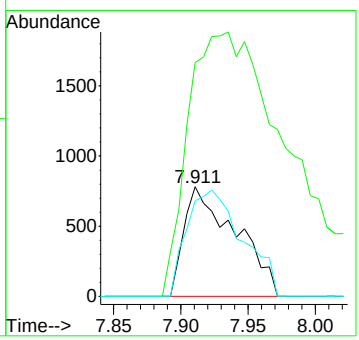


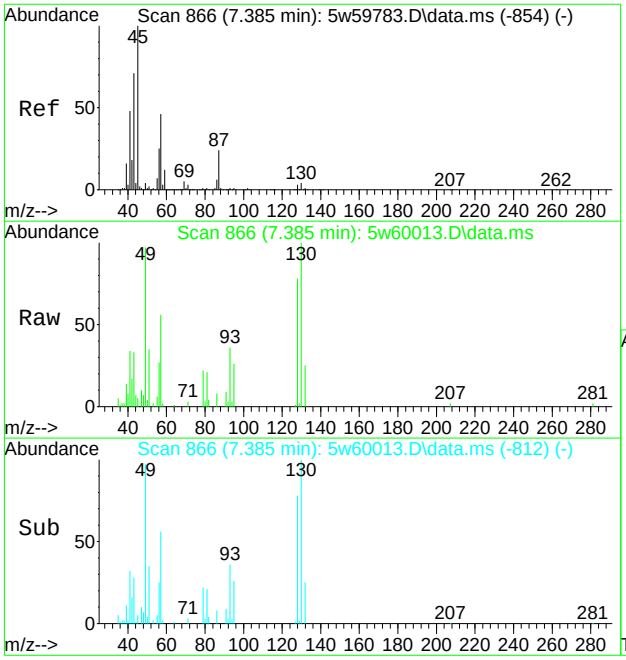


#37
TETRAHYDROFURAN
Concen: 0.1128 PPBV
RT: 7.911 min Scan# 952
Delta R.T. 0.055 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 72 Resp: 2081

Ion	Ratio	Lower	Upper
72	100		
42	0.0	202.4	262.4#
71	0.0	71.1	131.1#

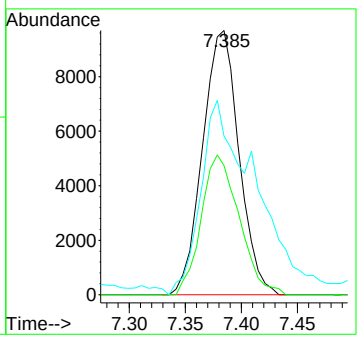


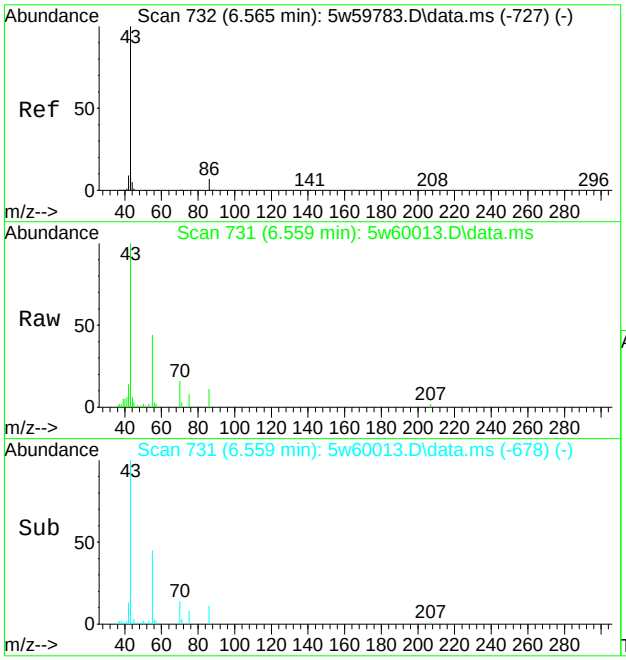


#38
HEXANE
Concen: 0.2890 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 57 Resp: 21929

Ion	Ratio	Lower	Upper
57	100		
56	55.1	25.9	85.9
41	118.6	74.7	134.7

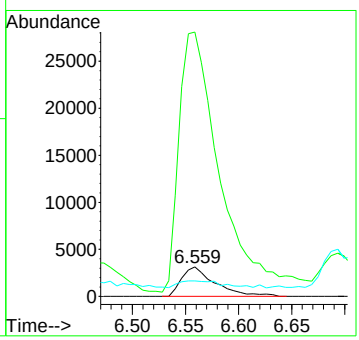


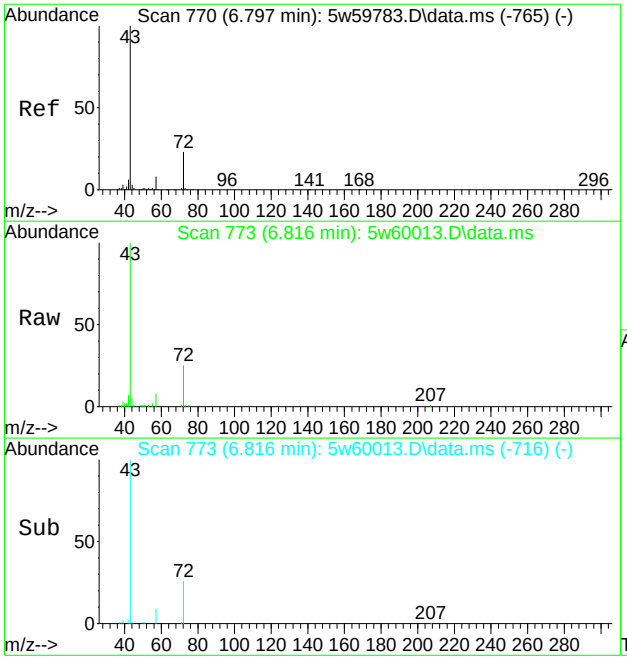


#39
VINYL ACETATE
Concen: 0.8971 PPBV
RT: 6.559 min Scan# 731
Delta R.T. -0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 86 Resp: 6883

Ion	Ratio	Lower	Upper
86	100		
43	1078.9	1379.7	1439.7#
44	31.8	36.9	96.9#

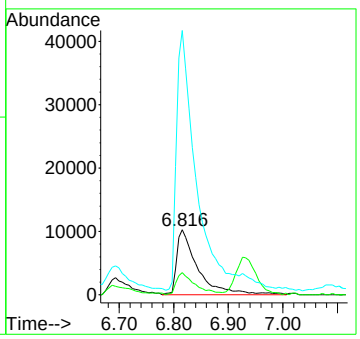


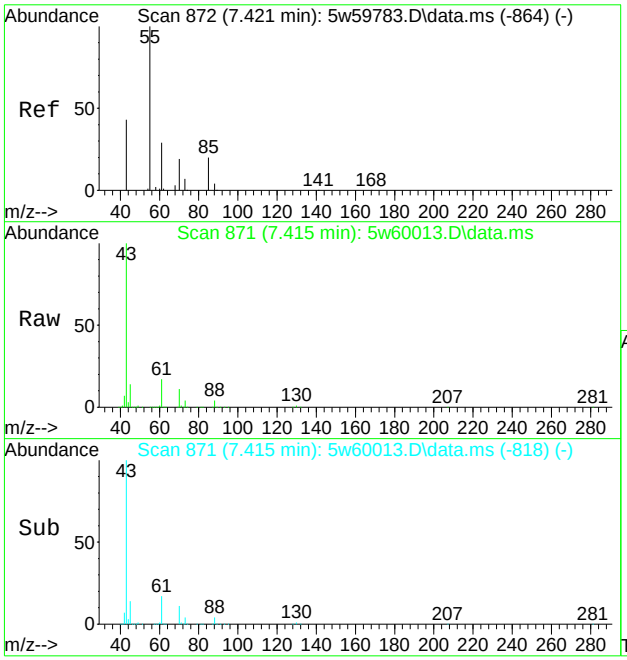


#41
METHYL ETHYL KETONE
Concen: 1.4999 PPBV
RT: 6.816 min Scan# 773
Delta R.T. 0.019 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 72 Resp: 27531

Ion	Ratio	Lower	Upper
72	100		
57	34.2	4.8	64.8
43	405.9	415.9	475.9#

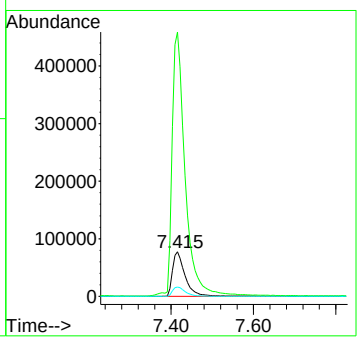


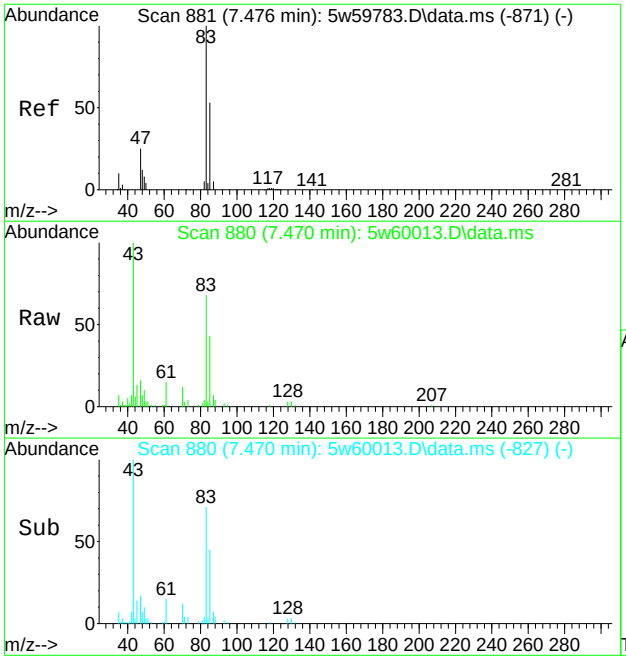


#44
ETHYL ACETATE
Concen: 11.8240 PPBV
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 61 Resp: 165841

Ion	Ratio	Lower	Upper
61	100		
43	612.0	560.5	620.5
88	21.6	4.5	64.5

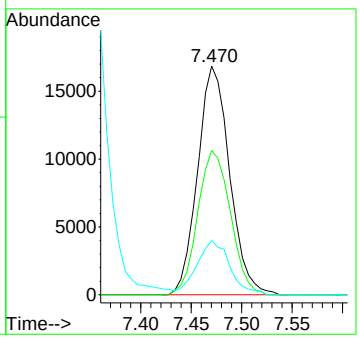


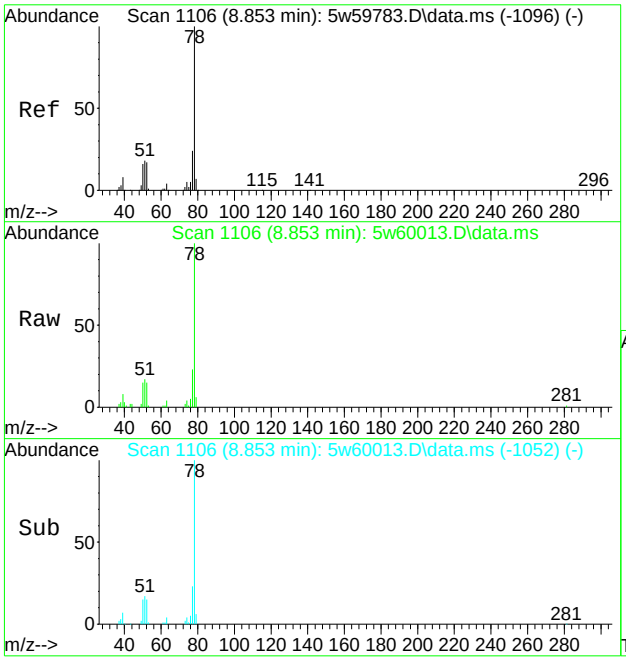


#46
CHLOROFORM
Concen: 0.3521 PPBV
RT: 7.470 min Scan# 880
Delta R.T. -0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 83 Resp: 37202

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.6	95.6
47	24.4	0.0	55.2

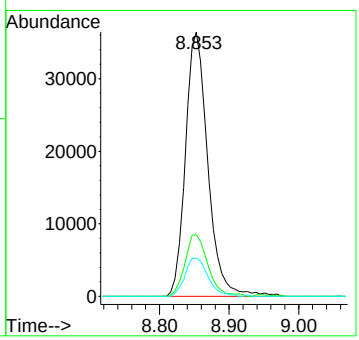


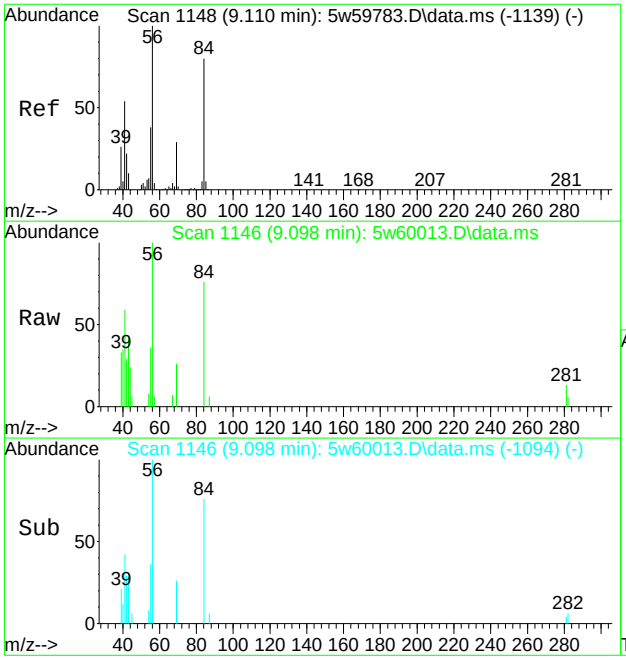


#52
BENZENE
Concen: 0.5635 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 78 Resp: 81424

Ion	Ratio	Lower	Upper
78	100		
77	24.0	0.0	53.8
52	14.9	0.0	46.9

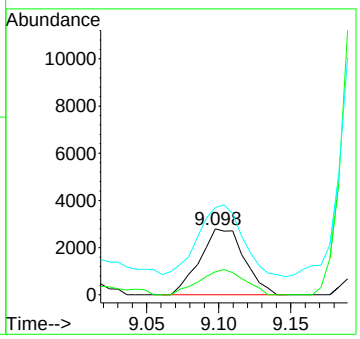


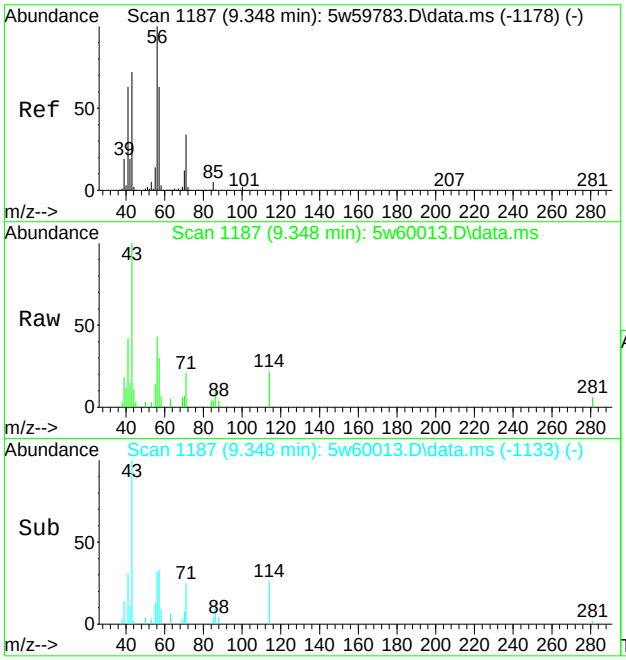


#53
CYCLOHEXANE
Concen: 0.1040 PPBV
RT: 9.098 min Scan# 1146
Delta R.T. -0.012 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 84 Resp: 6005

Ion	Ratio	Lower	Upper
84	100		
69	38.7	6.9	66.9
56	173.9	98.2	158.2#

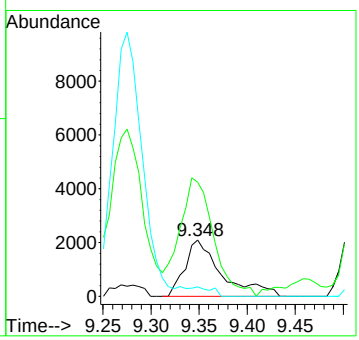


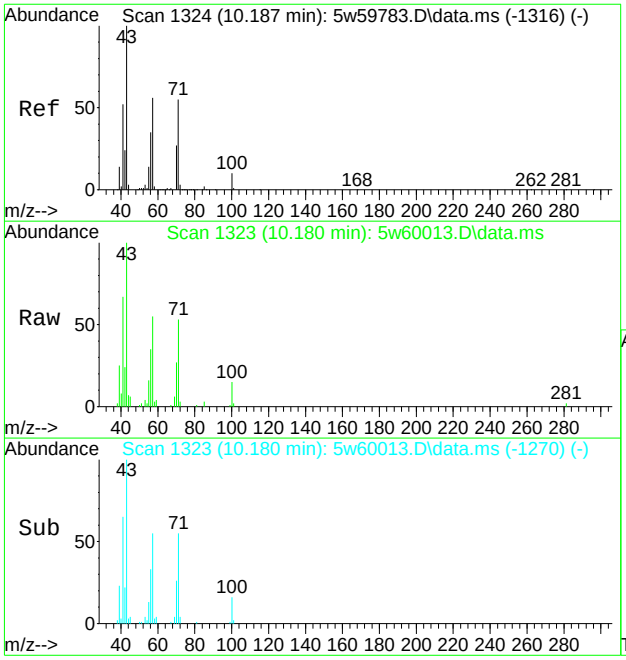


#54
2,3-DIMETHYLPENTANE
Concen: 0.1897 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 71 Resp: 5533

Ion	Ratio	Lower	Upper
71	100		
56	195.0	264.6	324.6#
85	0.0	0.0	45.3

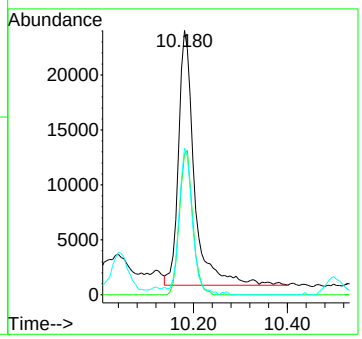


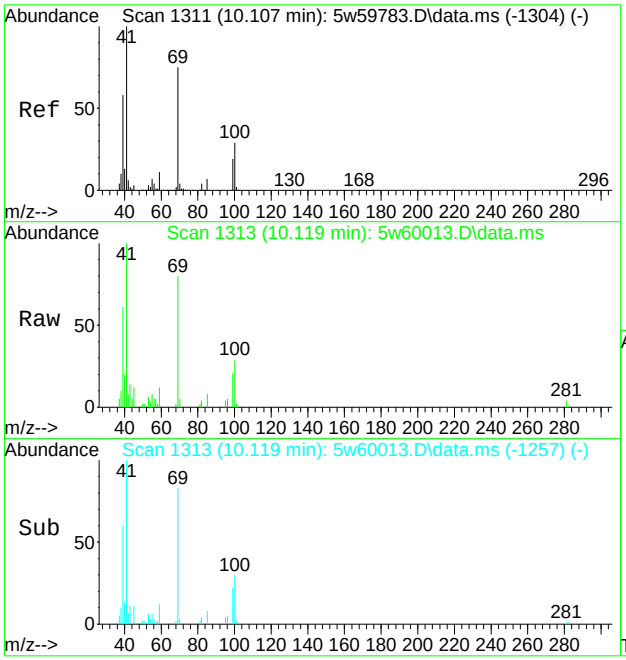


#62
HEPTANE
Concen: 0.6608 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 43 Resp: 54943

Ion	Ratio	Lower	Upper
43	100		
71	47.4	24.5	84.5
57	48.3	26.2	86.2

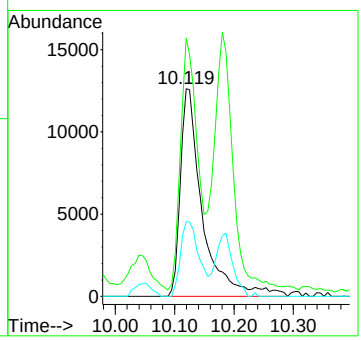


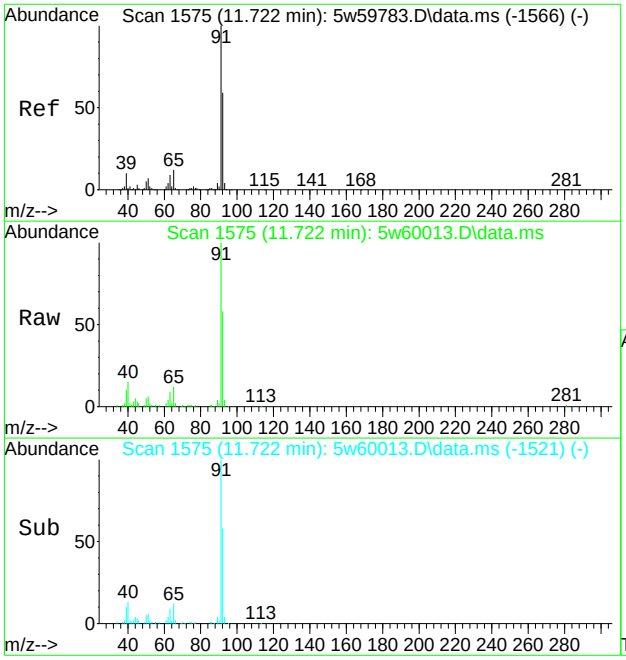


#63
METHYL METHACRYLATE
Concen: 0.6969 PPBV
RT: 10.119 min Scan# 1313
Delta R.T. 0.012 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 69 Resp: 32821

Ion	Ratio	Lower	Upper
69	100		
41	98.1	95.3	155.3
100	30.3	6.3	66.3

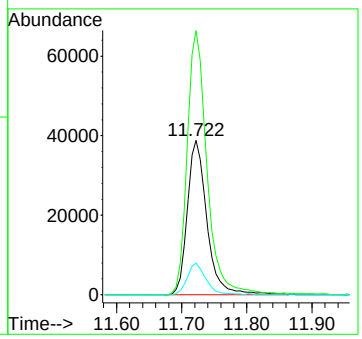


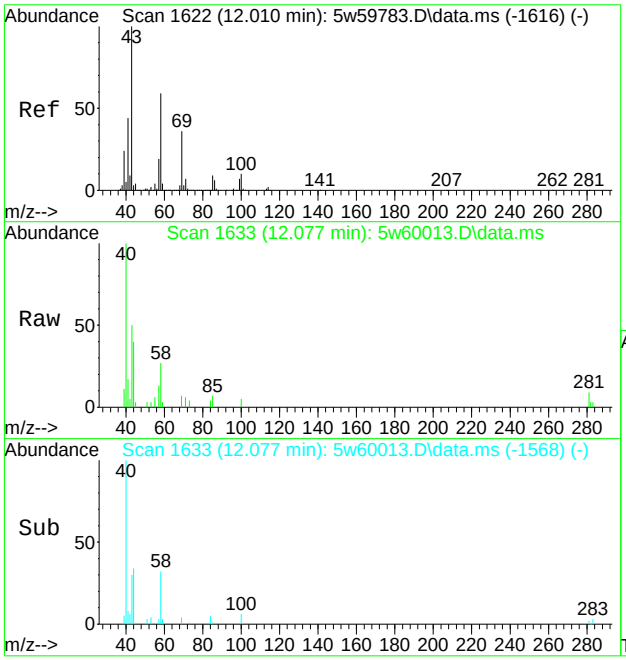


#66
TOLUENE
Concen: 0.7522 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 92 Resp: 81248

Ion	Ratio	Lower	Upper
92	100		
91	174.4	140.1	200.1
65	19.6	0.0	53.1

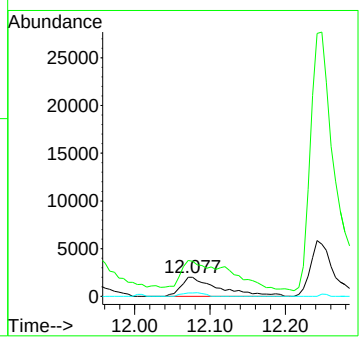


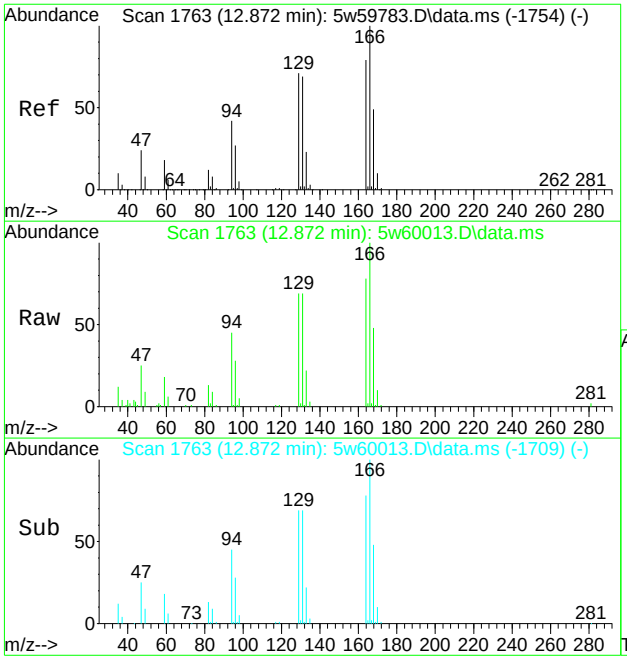


#71
2-HEXANONE
Concen: 0.1391 PPBV m
RT: 12.077 min Scan# 1633
Delta R.T. 0.067 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 58 Resp: 7080

Ion	Ratio	Lower	Upper
58	100		
43	0.0	137.2	197.2#
100	0.0	0.0	46.9

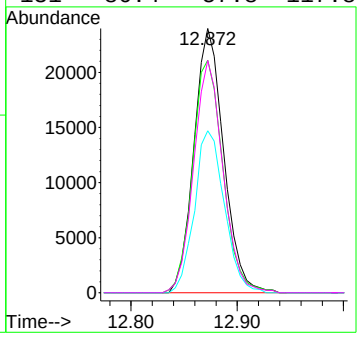


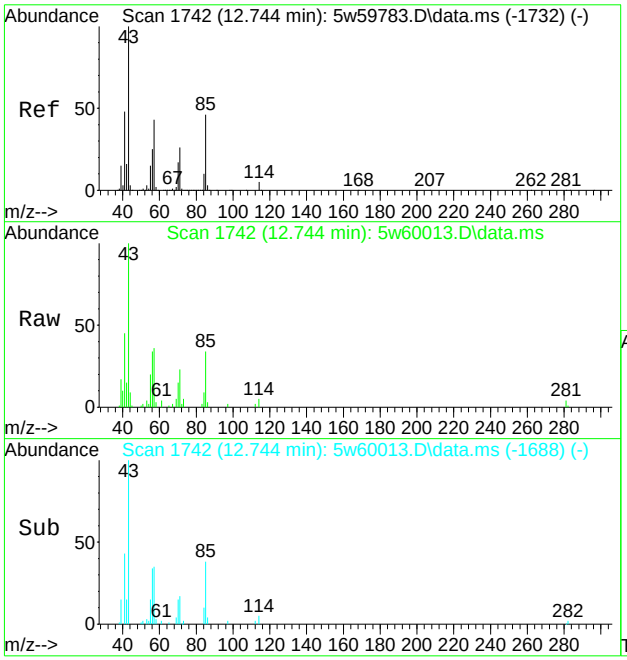


#73
TETRACHLOROETHYLENE
Concen: 0.7046 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:164 Resp: 46776

Ion	Ratio	Lower	Upper
164	100		
129	89.6	59.7	119.7
168	61.6	32.2	92.2
131	86.4	57.8	117.8

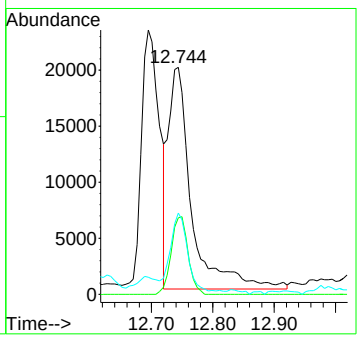


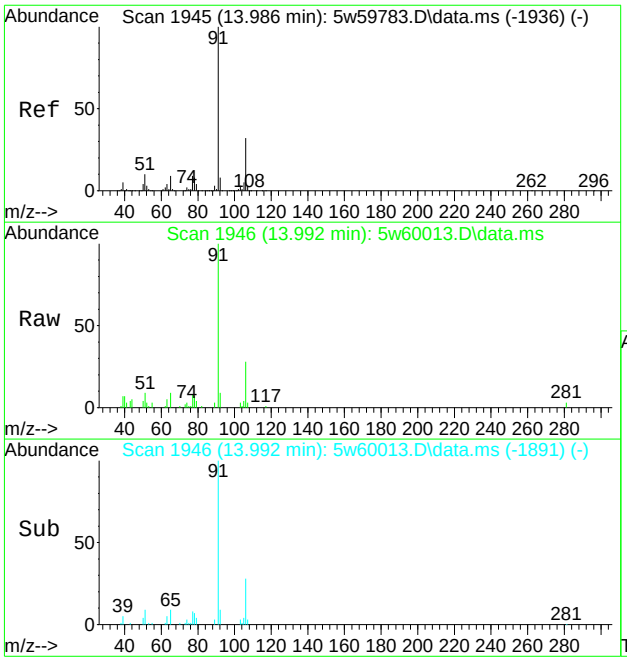


#76
OCTANE
Concen: 0.5681 PPBV m
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 43 Resp: 52523

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	5.1	13.7	73.7#

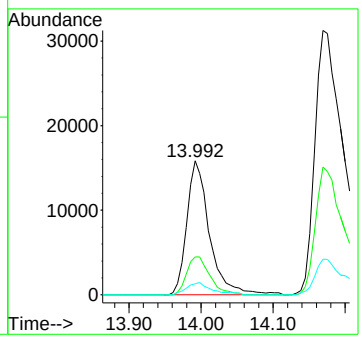


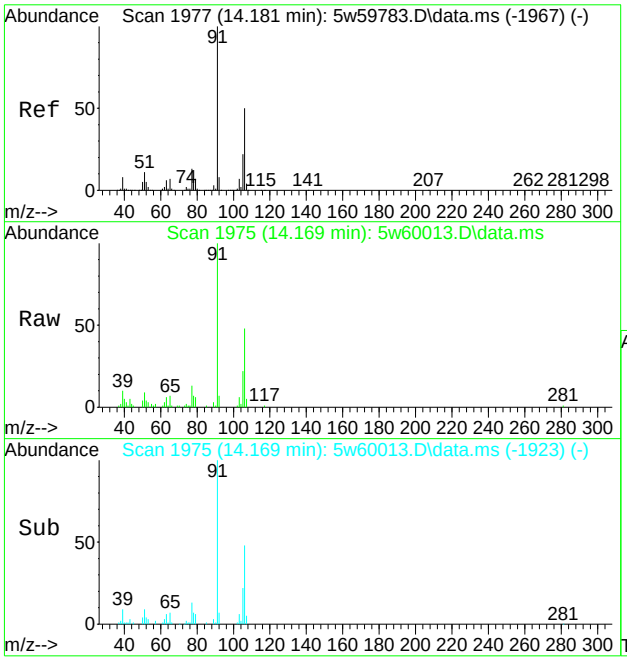


#79
ETHYLBENZENE
Concen: 0.1852 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 91 Resp: 34548

Ion	Ratio	Lower	Upper
91	100		
106	29.0	1.3	61.3
77	10.1	0.0	38.6

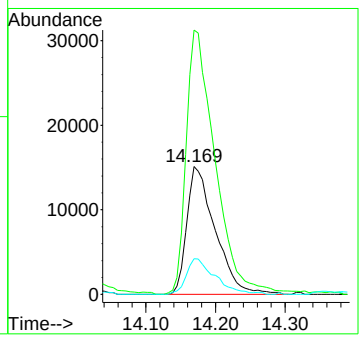


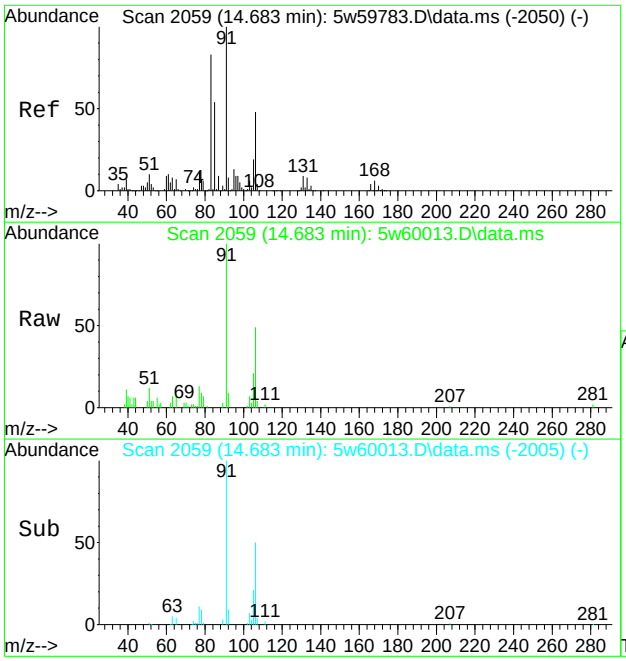


#80
m,p-XYLENE
Concen: 0.5833 PPBV
RT: 14.169 min Scan# 1975
Delta R.T. -0.012 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:106 Resp: 42879

Ion	Ratio	Lower	Upper
106	100		
91	206.7	171.0	231.0
77	27.9	0.0	56.7

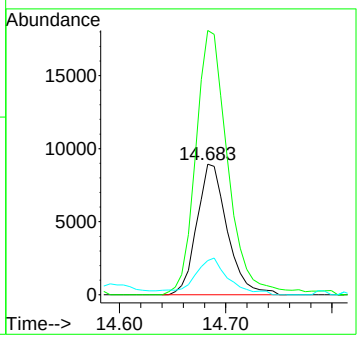


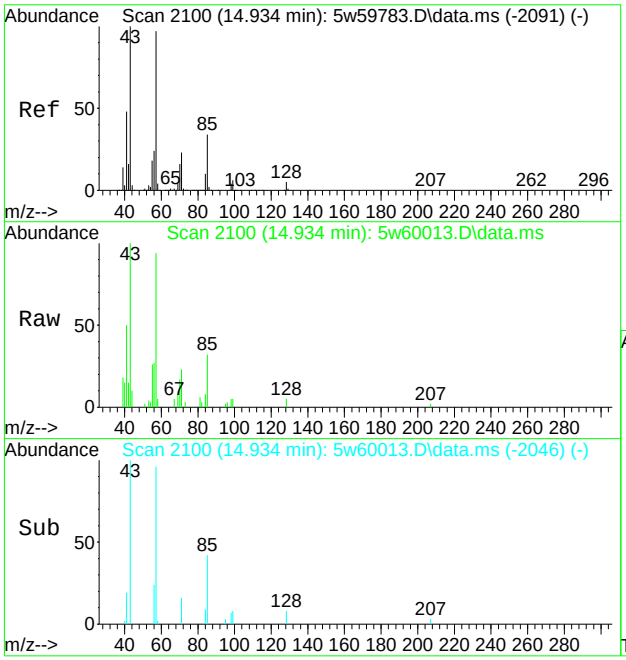


#81
o-XYLENE
Concen: 0.2586 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:106 Resp: 17799

Ion	Ratio	Lower	Upper
106	100		
91	216.4	181.6	241.6
77	30.1	0.0	56.6

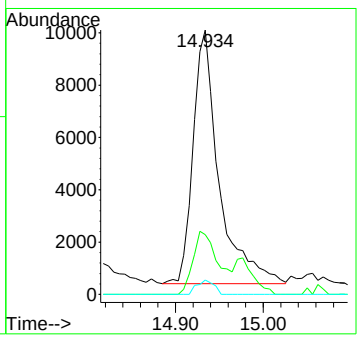


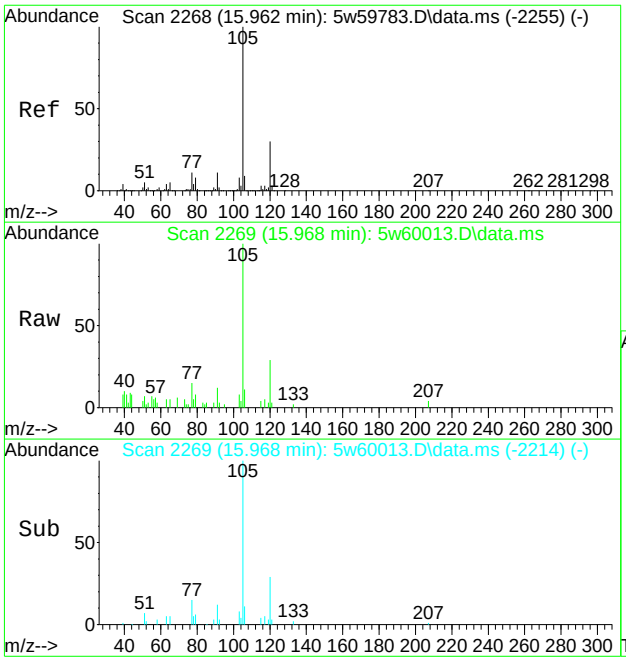


#83
NONANE
Concen: 0.2129 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion: 43 Resp: 19907

Ion	Ratio	Lower	Upper
43	100		
71	24.6	0.0	52.7
128	3.7	0.0	34.7

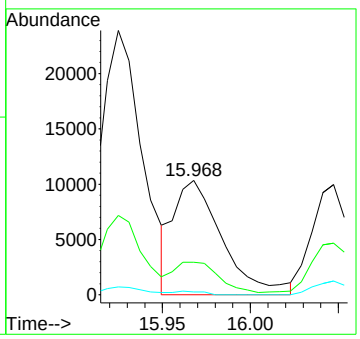


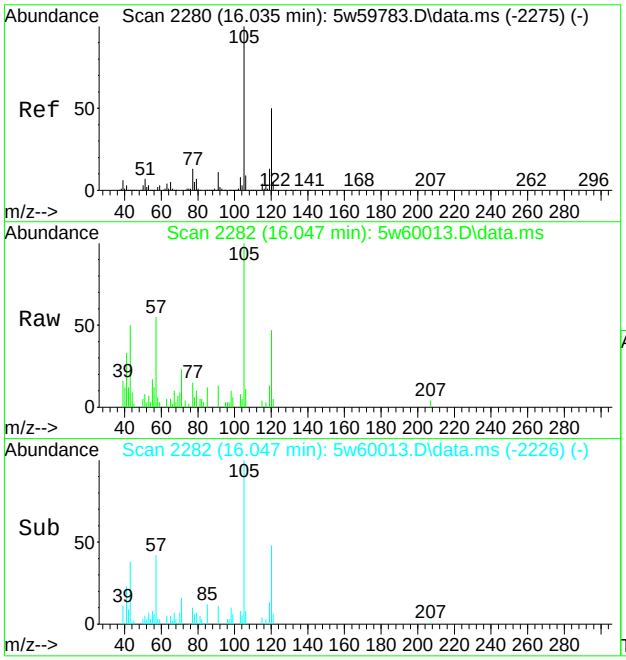


#92
4-ETHYLTOLUENE
Concen: 0.1032 PPBV m
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:105 Resp: 19903

Ion	Ratio	Lower	Upper
105	100		
120	59.1	0.0	59.9
119	6.2	0.0	32.3

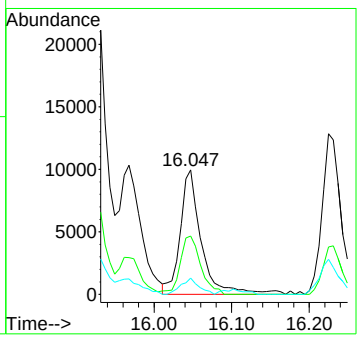


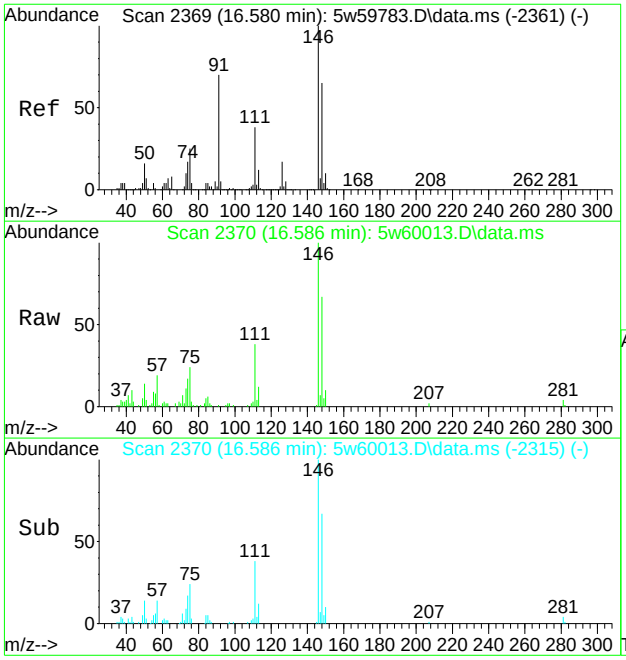


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.1054 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:105 Resp: 18892

Ion	Ratio	Lower	Upper
105	100		
120	45.1	19.4	79.4
91	11.1	0.0	40.8

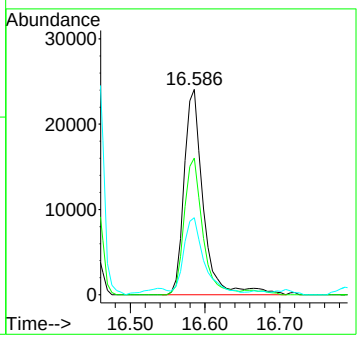


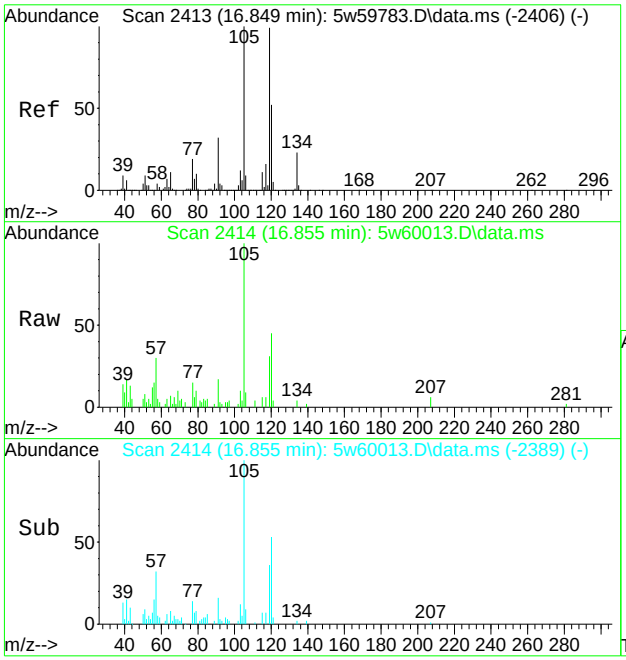


#97
m-DICHLOROBENZENE
Concen: 0.3369 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:146 Resp: 43078

Ion	Ratio	Lower	Upper
146	100		
148	66.6	34.8	94.8
111	37.5	8.2	68.2

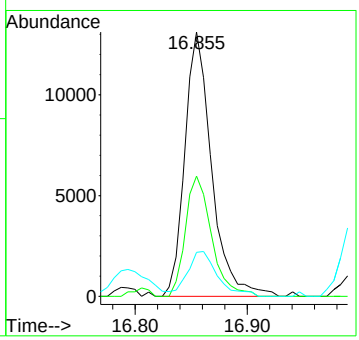


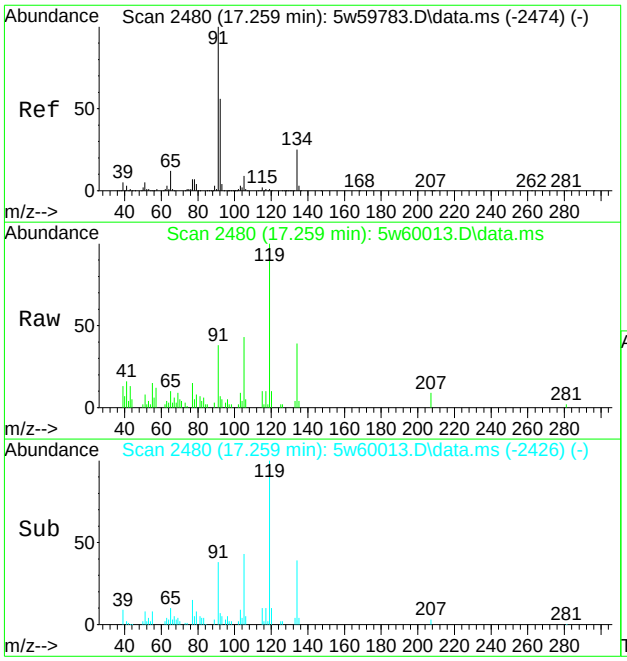


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.1231 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:105 Resp: 21784

Ion	Ratio	Lower	Upper
105	100		
120	44.3	23.5	83.5
91	19.1	7.4	67.4

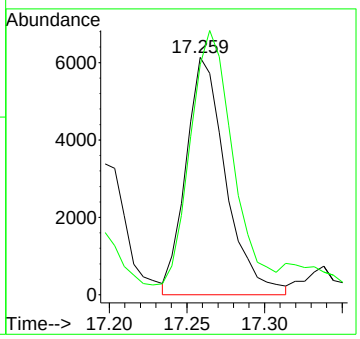




#104
n-BUTYLBENZENE
Concen: 0.2144 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w60013.D
Acq: 24 Nov 2025 8:08 pm

Tgt Ion:134 Resp: 10971

Ion	Ratio	Lower	Upper
134	100		
91	139.4	363.1	423.1#



Manual Integration Approval Summary

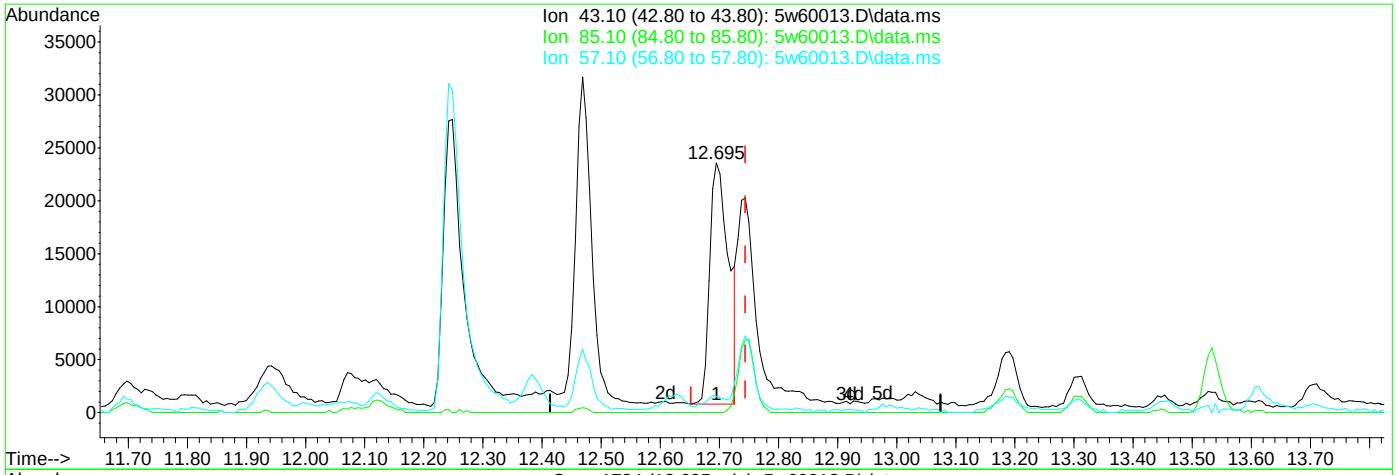
Sample Number: JE23791-3
Lab FileID: 5W60013.D
Injection Time: 11/24/25 20:08
Method: TO-15
Analyst approved: 11/25/25 13:00 Claire Basilio
Supervisor approved: 11/26/25 19:22 Kanya Veerawat

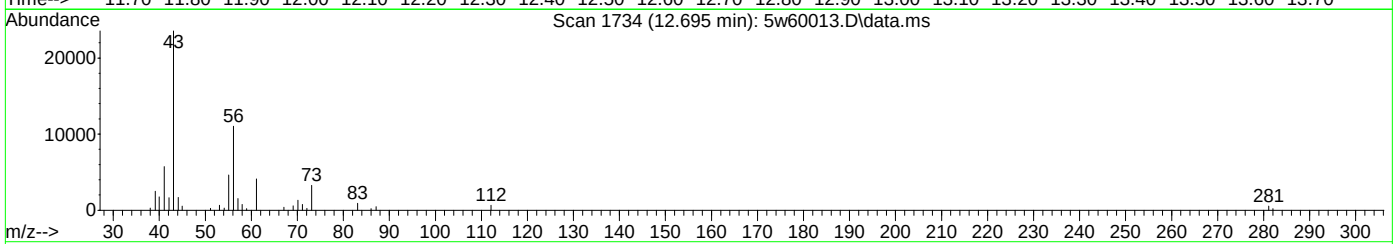
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Hexanone	591-78-6		12.08	Missed peak
Octane	111-65-9		12.74	Missed peak
4-Ethyltoluene	622-96-8		15.97	Missed peak

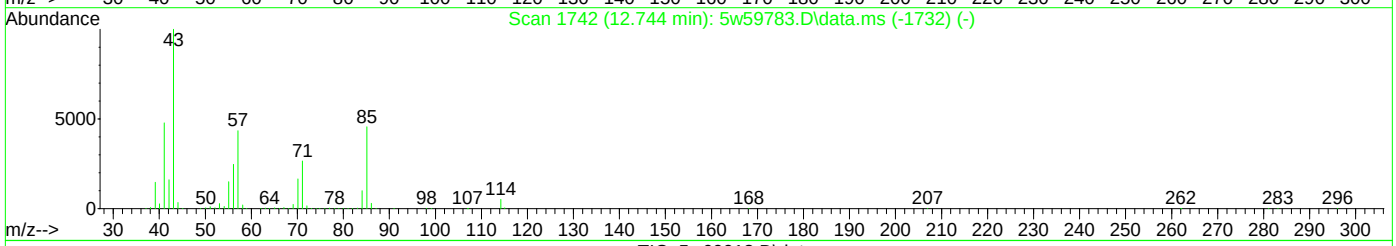
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60013.D
Acq On : 24 Nov 2025 8:08 pm
Operator : benk
Sample : je23791-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 26 00:17:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60013.D\data.ms

(76) OCTANE

12.695min (-0.049) 0.55PPBV

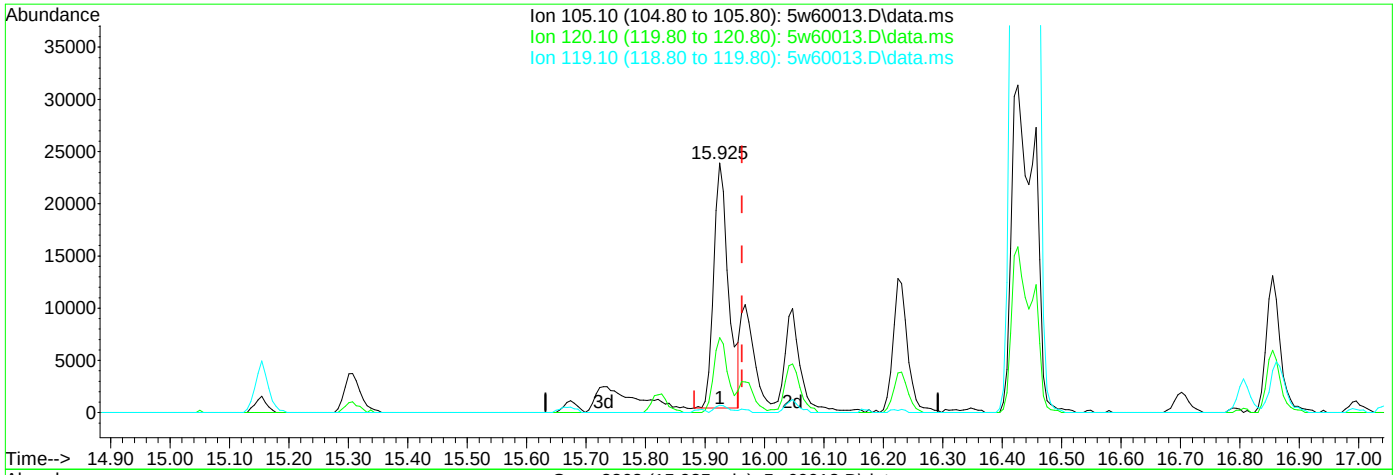
response 50662

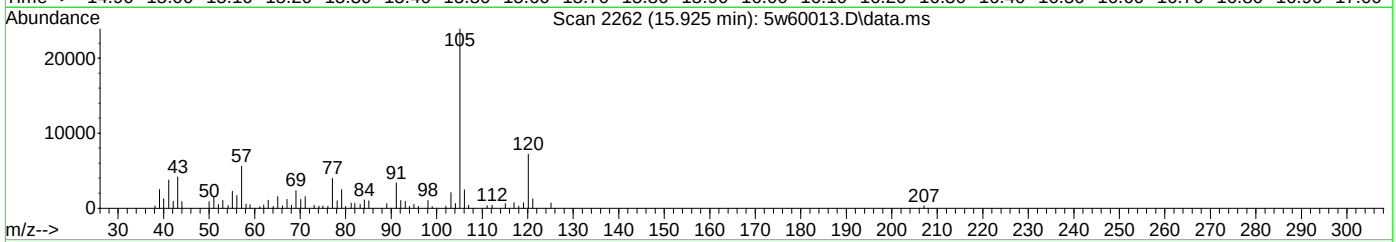
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	5.33#
0.00	0.00	0.00

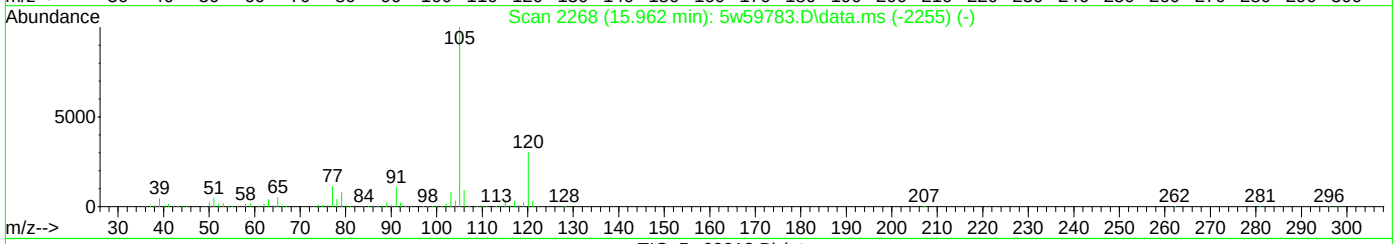
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60013.D
Acq On : 24 Nov 2025 8:08 pm
Operator : benk
Sample : je23791-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 26 00:19:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60013.D\data.ms

(92) 4-ETHYLTOLUENE

15.925min (-0.037) 0.21PPBV

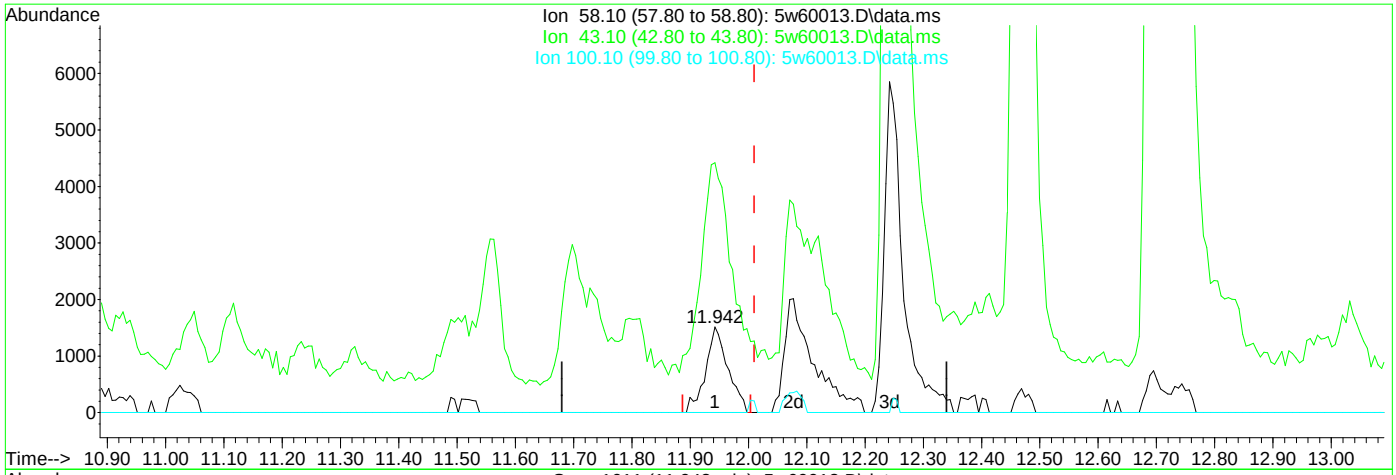
response 40588

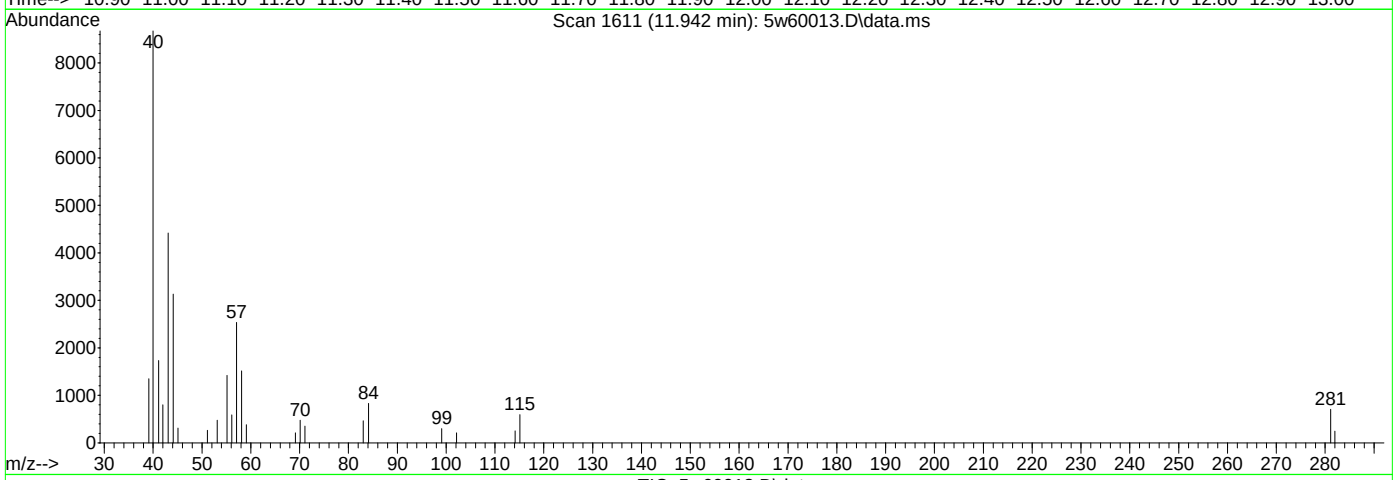
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	29.00
119.10	2.30	3.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60013.D
Acq On : 24 Nov 2025 8:08 pm
Operator : benk
Sample : je23791-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 26 02:09:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration





TIC: 5w60013.D\data.ms

(71) 2-HEXANONE

11.942min (-0.068) 0.08PPBV

response 4053

Ion	Exp%	Act%
58.10	100	100
43.10	167.20	355.00#
100.10	16.90	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 19:38

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 5w60014.D
Acq On : 24 Nov 2025 8:52 pm
Operator : benk
Sample : je23791-4 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 26 00:28:41 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

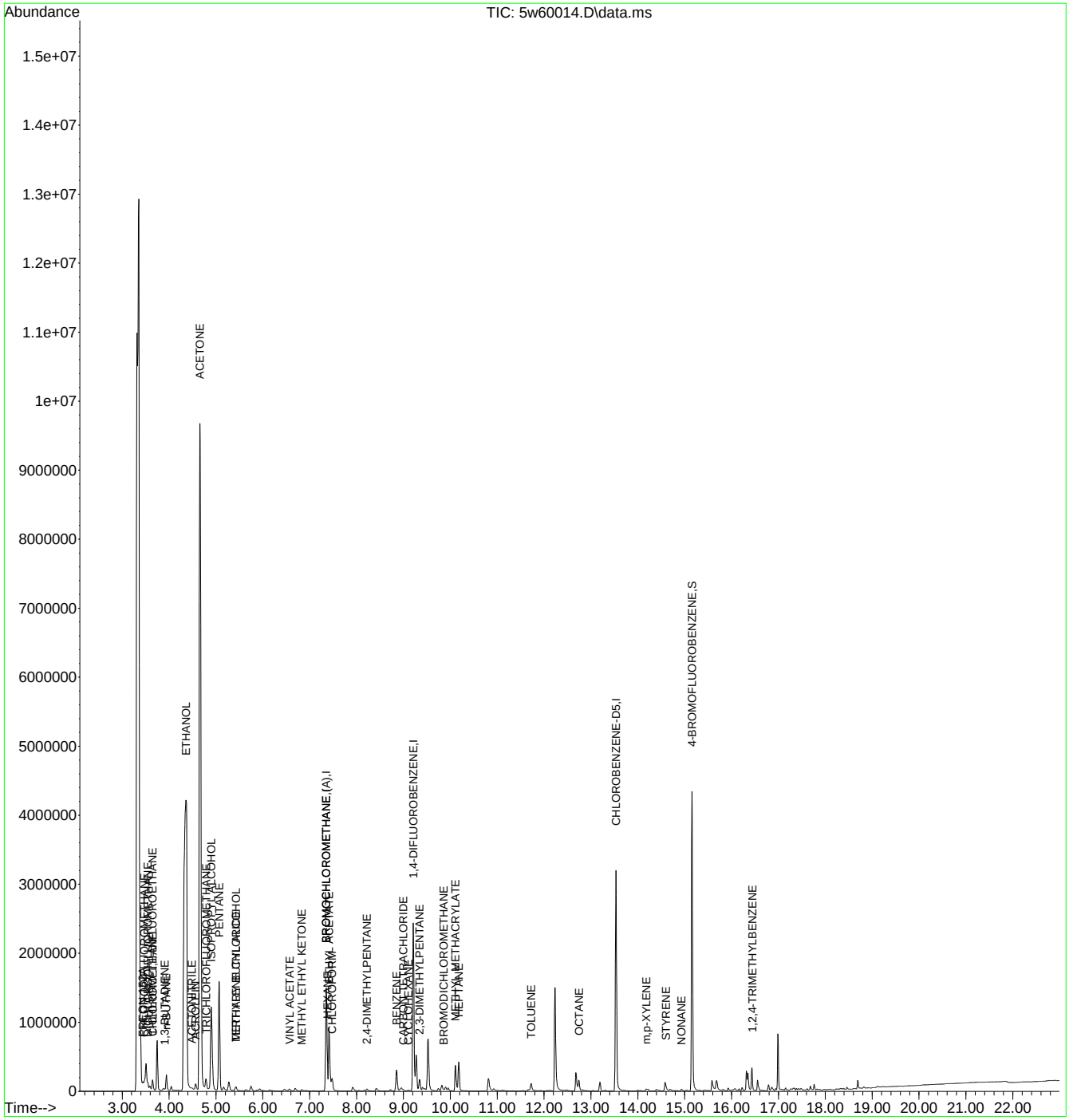
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	468744	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2166394	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1085776	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	468744	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1476238	10.88	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.80%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	33467	0.9627	PPBV	93
4) CHLORODIFLUOROMETHANE	3.469	67	16338	1.1235	PPBV	62
6) DICHLORODIFLUOROMETHANE	3.543	85	77752	0.5796	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	108809	1.0016	PPBV	94
10) CHLOROMETHANE	3.653	52	13376	0.9079	PPBV	85
12) 1,3-BUTADIENE	3.910	54	7873m	0.2880	PPBV	
13) n-BUTANE	3.941	43	195810	4.3830	PPBV	98
17) ACETONITRILE	4.485	41	11623	0.4554	PPBV	97
18) ACROLEIN	4.565	56	86757	5.9820	PPBV	95
21) TRICHLOROFLUOROMETHANE	4.791	101	129327	1.1287	PPBV	99
22) ISOPROPYL ALCOHOL	4.901	45	1946809	21.1799	PPBV	96
23) ACETONE	4.656	58	5523502	300.4463	PPBV	91
24) PENTANE	5.066	42	654639	13.7083	PPBV	98
28) ETHANOL	4.363	45	11057704	718.0513	PPBV	99
31) METHYLENE CHLORIDE	5.427	84	21821	0.4639	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.427	59	16795	0.1787	PPBV #	48
38) HEXANE	7.379	57	28160	0.3763	PPBV	93
39) VINYL ACETATE	6.571	86	4044	0.5343	PPBV #	32
41) METHYL ETHYL KETONE	6.828	72	9685m	0.5349	PPBV	
44) ETHYL ACETATE	7.409	61	196496	14.2028	PPBV	93
46) CHLOROFORM	7.477	83	131916	1.2657	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.217	57	15054	0.1777	PPBV	98
49) CARBON TETRACHLORIDE	8.994	117	11971	0.1014	PPBV	96
52) BENZENE	8.853	78	301704	2.0787	PPBV	98
53) CYCLOHEXANE	9.104	84	5853	0.1009	PPBV	91
54) 2,3-DIMETHYLPENTANE	9.342	71	32206	1.0992	PPBV #	80
59) BROMODICHLOROMETHANE	9.856	83	20298	0.1583	PPBV	71
62) HEPTANE	10.181	43	174530	2.0899	PPBV	97
63) METHYL METHACRYLATE	10.107	69	176432	3.7299	PPBV	87
66) TOLUENE	11.722	92	53901	0.4968	PPBV	95
76) OCTANE	12.744	43	91318	0.8854	PPBV	83
80) m,p-XYLENE	14.182	106	14273	0.1740	PPBV	92
82) STYRENE	14.598	104	14007	0.1169	PPBV	98
83) NONANE	14.928	43	14418	0.1382	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	16.445	105	21146	0.1133	PPBV #	43

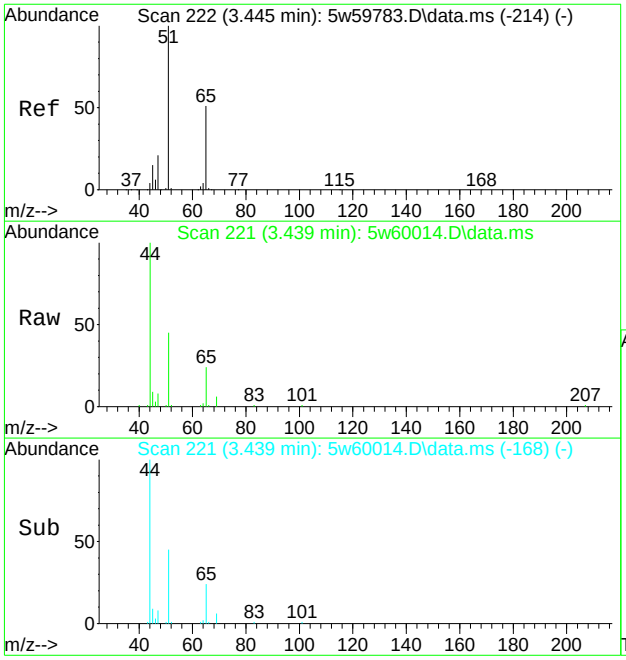
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60014.D
Acq On : 24 Nov 2025 8:52 pm
Operator : benk
Sample : je23791-4 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 26 00:28:41 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

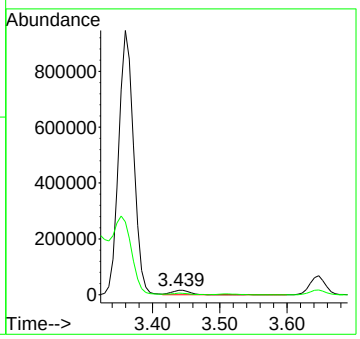


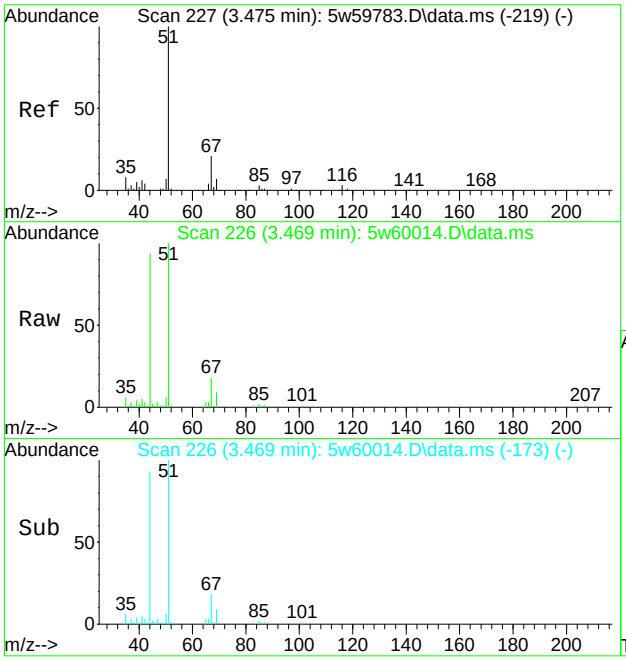


#3
FREON 152A
Concen: 0.9627 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 65 Resp: 33467

Ion	Ratio	Lower	Upper
65	100		
45	26.1	0.0	60.0

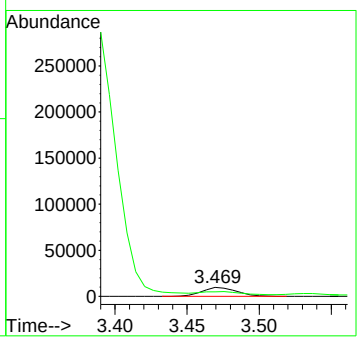


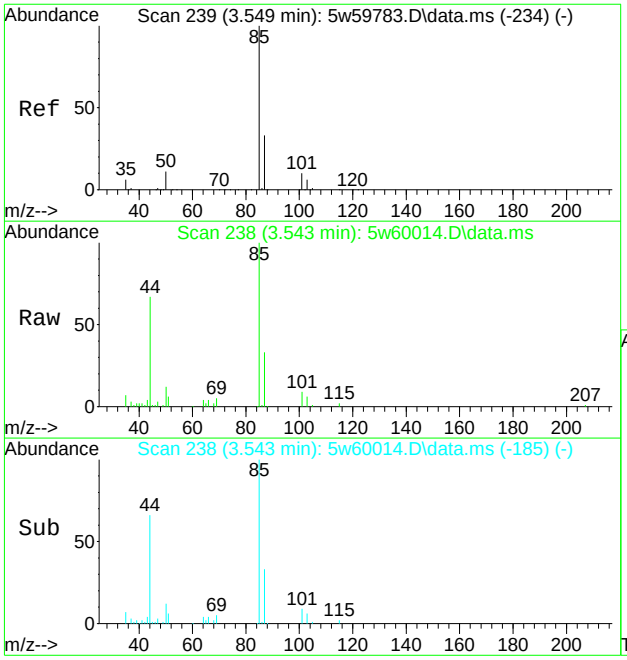


#4
CHLORODIFLUOROMETHANE
Concen: 1.1235 PPBV
RT: 3.469 min Scan# 226
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 67 Resp: 16338

Ion	Ratio	Lower	Upper
67	100		
69	51.7	1.0	61.0

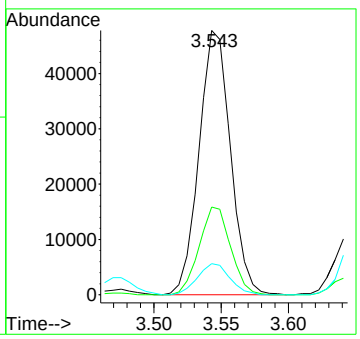


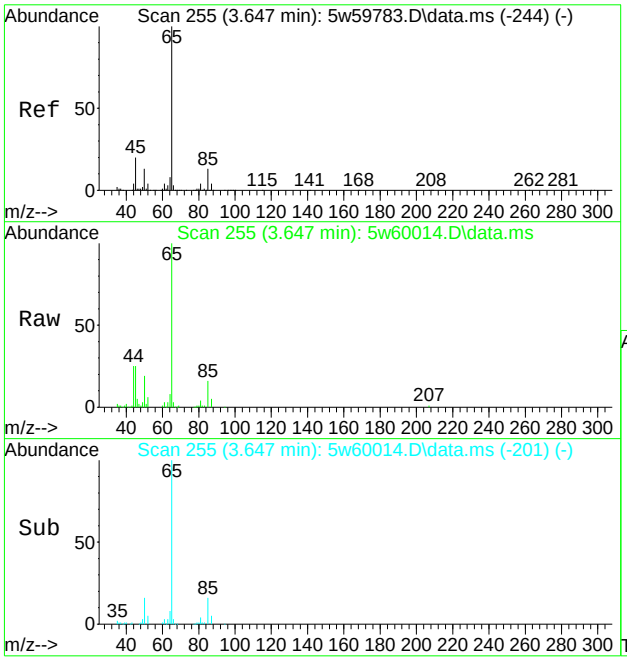


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5796 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 85 Resp: 77752

Ion	Ratio	Lower	Upper
85	100		
87	33.1	2.5	62.5
50	12.1	0.0	41.7

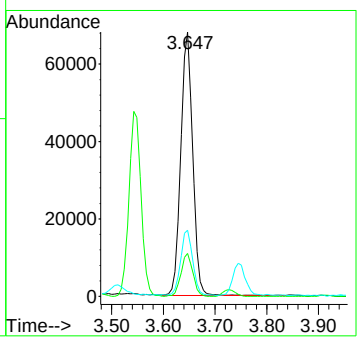


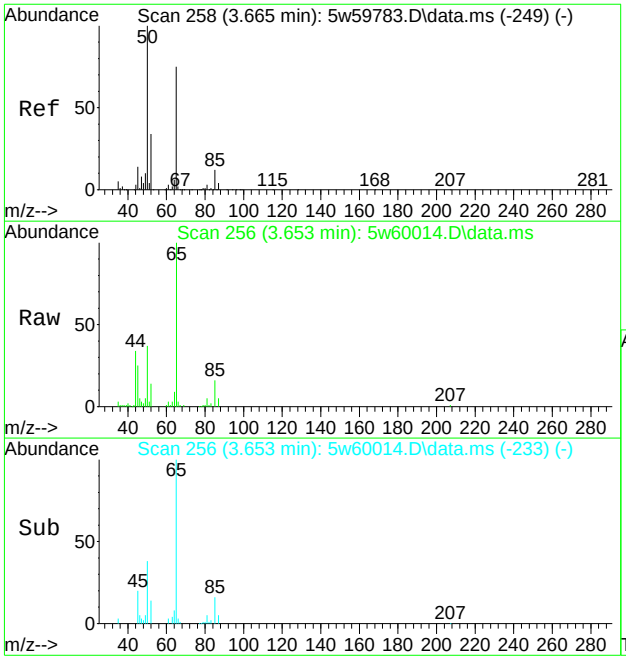


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 1.0016 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 65 Resp: 108809

Ion	Ratio	Lower	Upper
65	100		
85	16.2	11.5	21.3
45	25.2	14.0	26.0

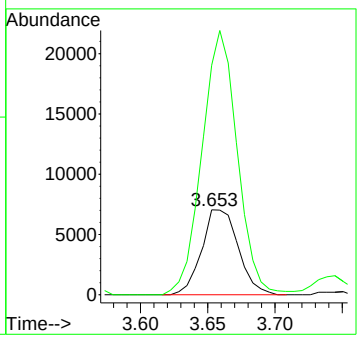


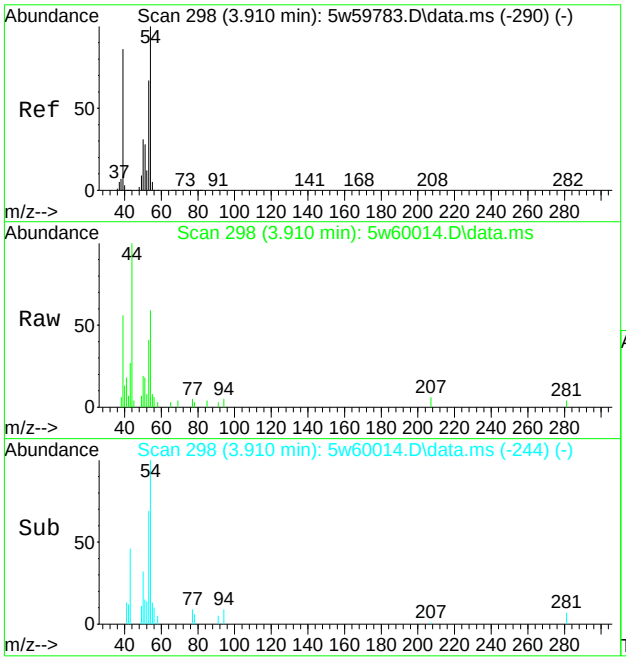


#10
CHLOROMETHANE
Concen: 0.9079 PPBV
RT: 3.653 min Scan# 256
Delta R.T. -0.012 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 52 Resp: 13376

Ion	Ratio	Lower	Upper
52	100		
50	268.5	267.9	327.9

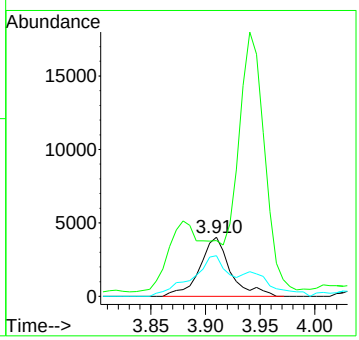


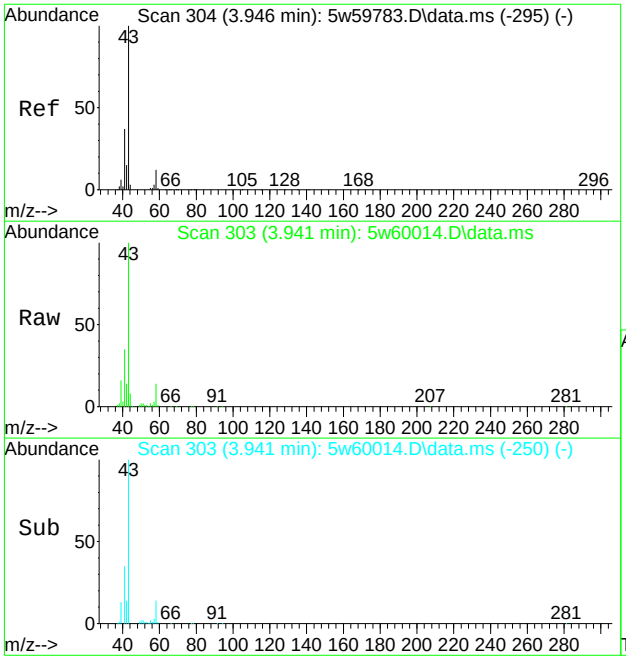


#12
1,3-BUTADIENE
Concen: 0.2880 PPBV m
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 54 Resp: 7873

Ion	Ratio	Lower	Upper
54	100		
39	20.2	82.0	142.0#
53	17.7	40.2	100.2#

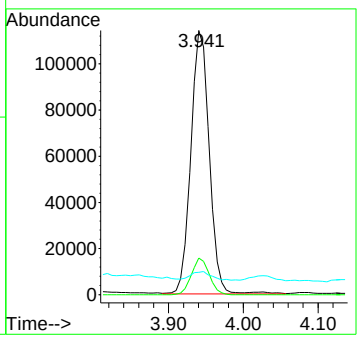


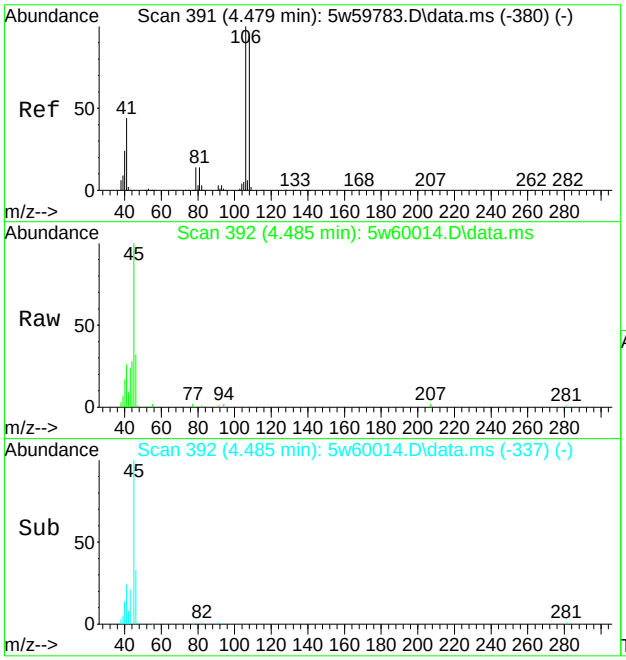


#13
n-BUTANE
Concen: 4.3830 PPBV
RT: 3.941 min Scan# 303
Delta R.T. -0.005 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 43 Resp: 195810

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	4.0	0.0	34.9

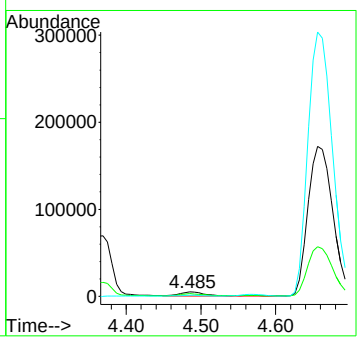


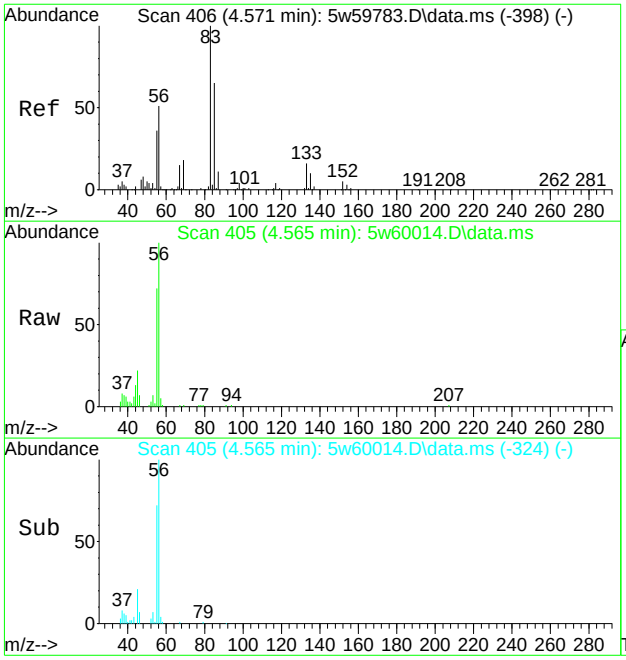


#17
ACETONITRILE
Concen: 0.4554 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 41 Resp: 11623

Ion	Ratio	Lower	Upper
41	100		
40	53.6	37.9	70.5
39	14.9	13.4	24.8

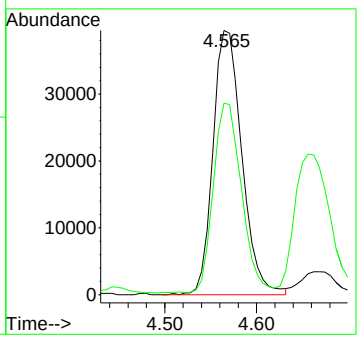


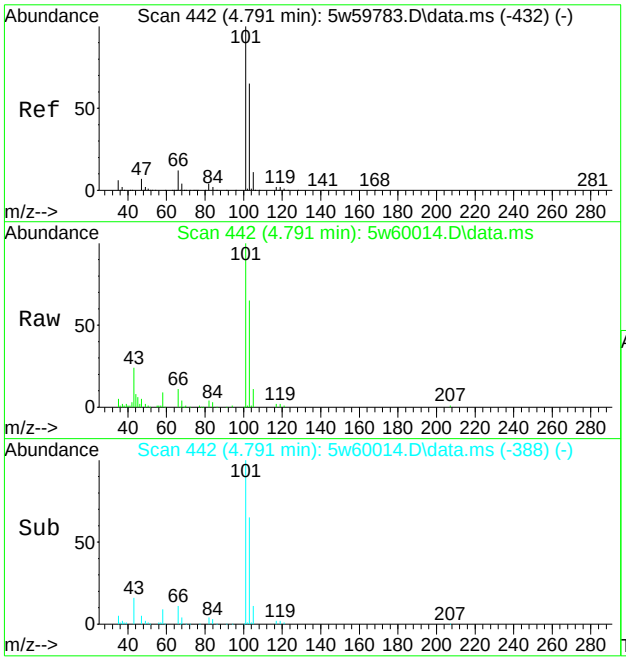


#18
ACROLEIN
Concen: 5.9820 PPBV
RT: 4.565 min Scan# 405
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 56 Resp: 86757

Ion	Ratio	Lower	Upper
56	100		
55	70.9	46.6	86.6

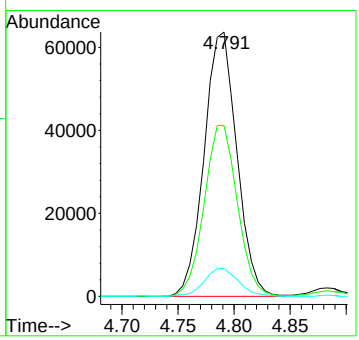


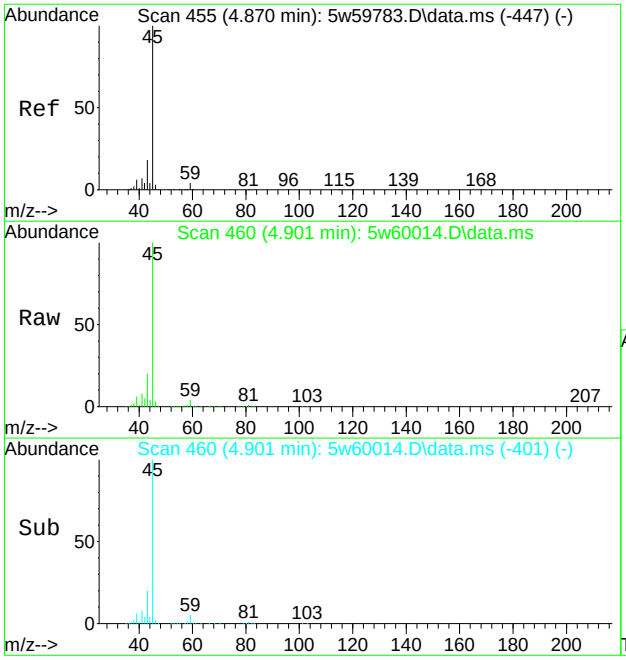


#21
TRICHLOROFLUOROMETHANE
Concen: 1.1287 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion:101 Resp: 129327

Ion	Ratio	Lower	Upper
101	100		
103	65.8	35.0	95.0
105	11.1	0.0	40.7

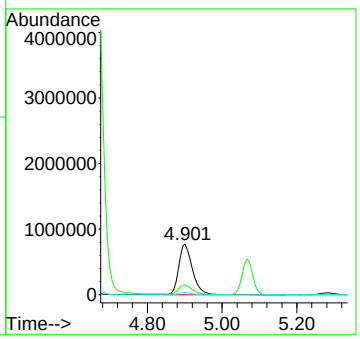


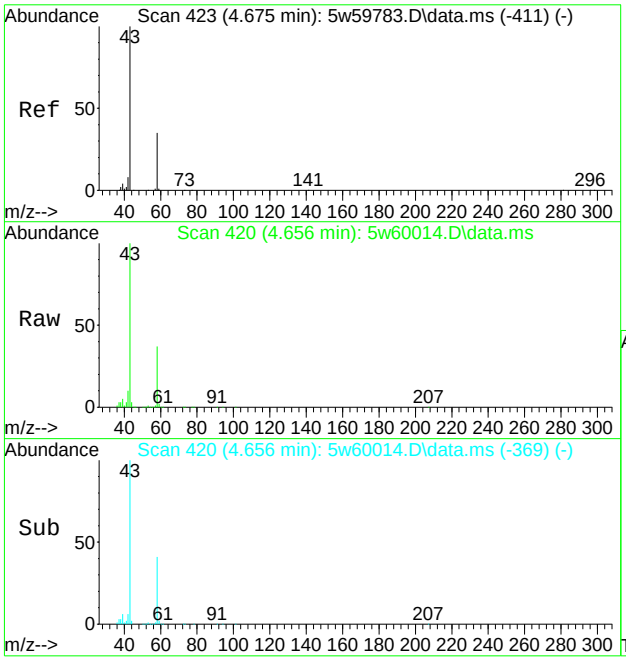


#22
ISOPROPYL ALCOHOL
Concen: 21.1799 PPBV
RT: 4.901 min Scan# 460
Delta R.T. 0.031 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 45 Resp: 1946809

Ion	Ratio	Lower	Upper
45	100		
43	19.7	0.0	47.8
59	4.5	0.0	34.1

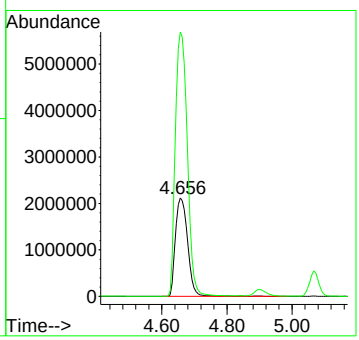


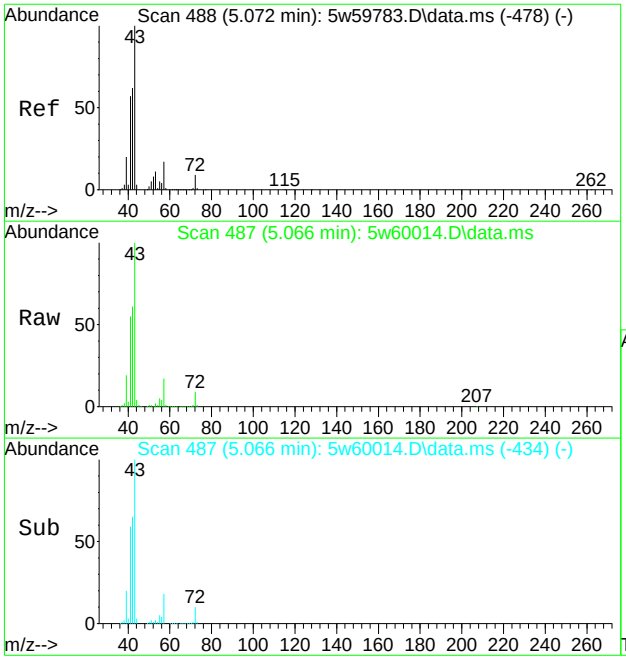


#23
ACETONE
Concen: 300.4463 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 58 Resp: 5523502

Ion	Ratio	Lower	Upper
58	100		
43	264.7	252.3	312.3

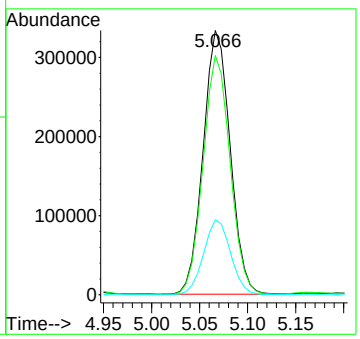


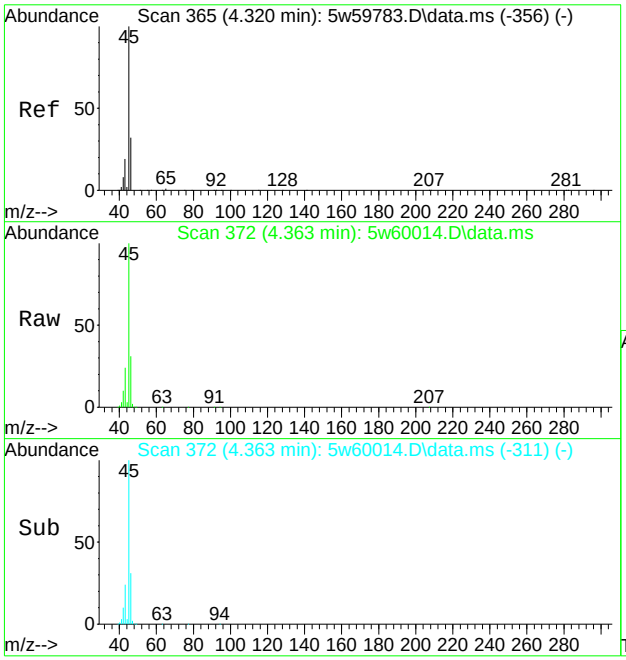


#24
PENTANE
Concen: 13.7083 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 42 Resp: 654639

Ion	Ratio	Lower	Upper
42	100		
41	90.6	62.3	122.3
57	28.6	0.0	57.7

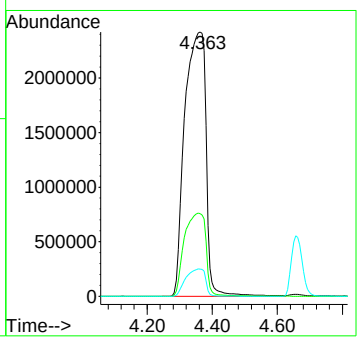


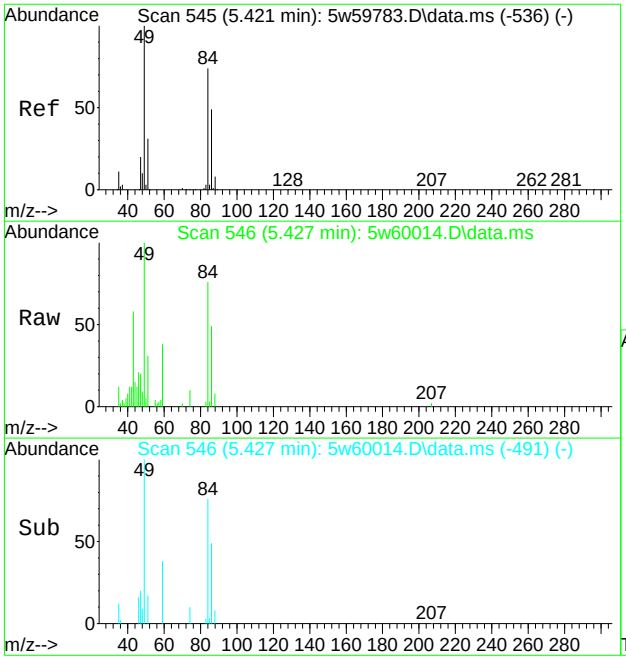


#28
ETHANOL
Concen: 718.0513 PPBV
RT: 4.363 min Scan# 372
Delta R.T. 0.043 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 45 Resp:11057704

Ion	Ratio	Lower	Upper
45	100		
46	32.0	2.0	62.0
42	9.7	0.0	38.5

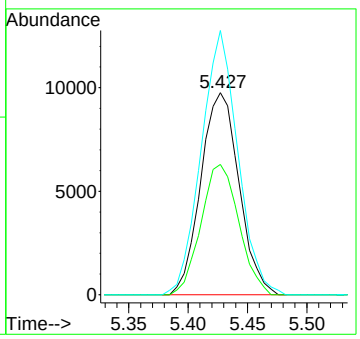


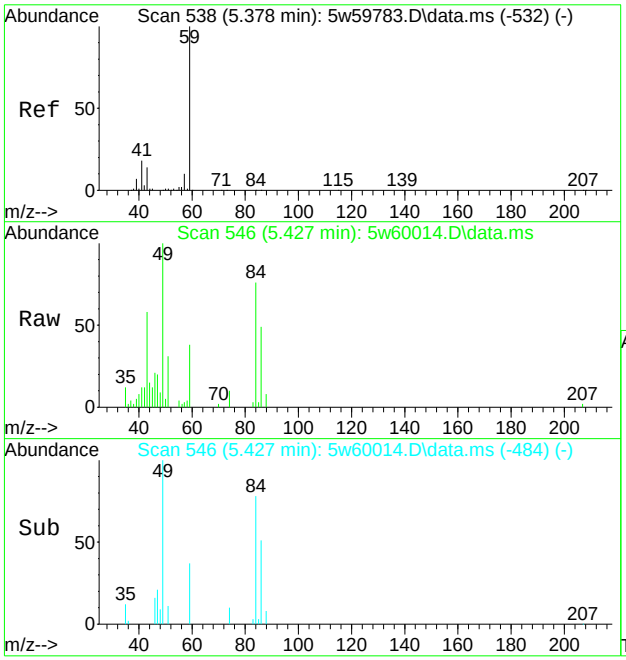


#31
METHYLENE CHLORIDE
Concen: 0.4639 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 84 Resp: 21821

Ion	Ratio	Lower	Upper
84	100		
86	63.8	35.2	95.2
49	125.3	105.3	165.3

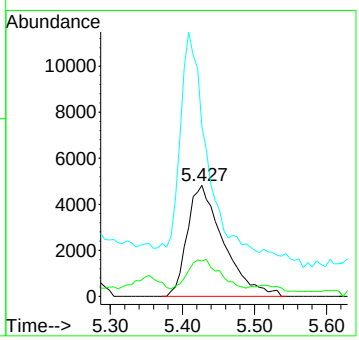


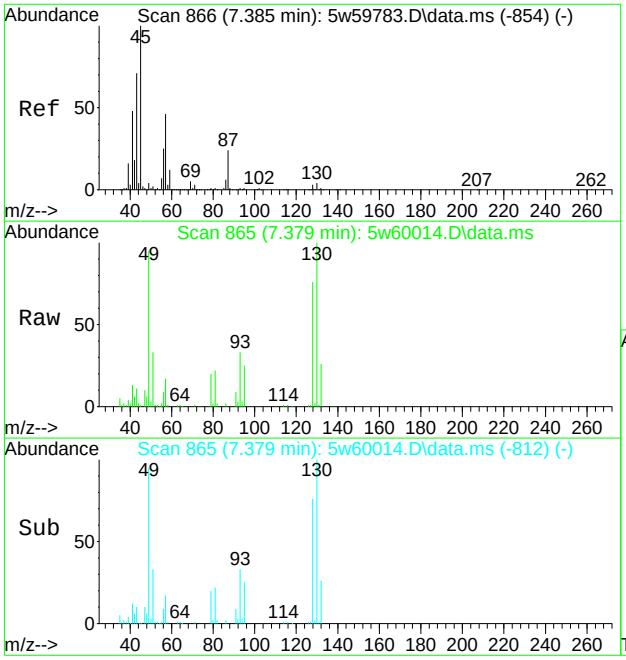


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.1787 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.049 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 59 Resp: 16795

Ion	Ratio	Lower	Upper
59	100		
41	48.8	0.0	49.3
43	0.0	0.0	44.1

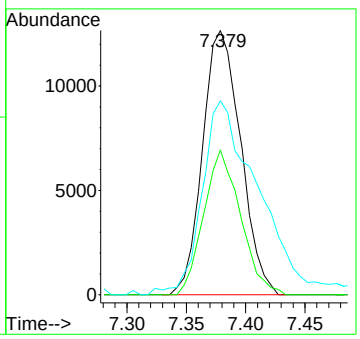


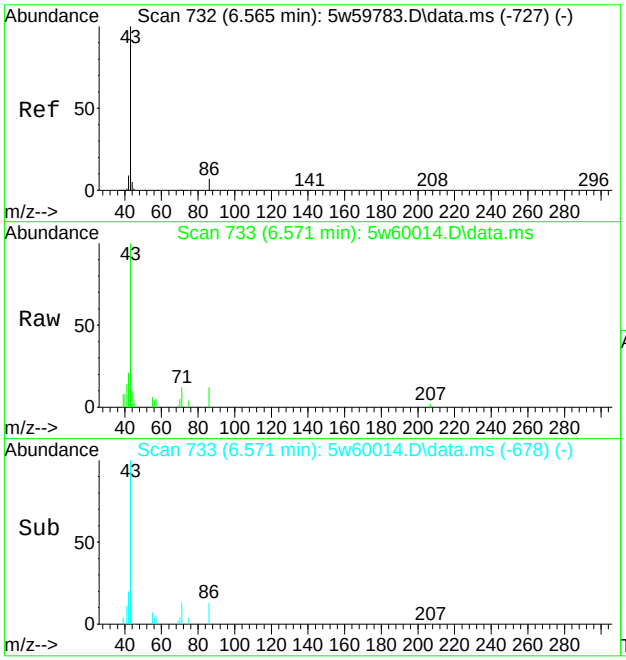


#38
HEXANE
Concen: 0.3763 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 57 Resp: 28160

Ion	Ratio	Lower	Upper
57	100		
56	52.9	25.9	85.9
41	112.7	74.7	134.7

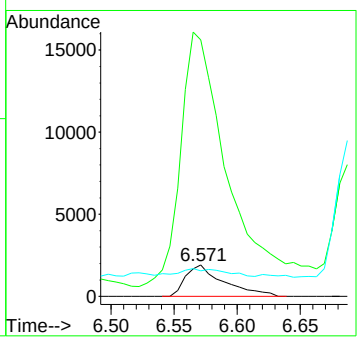


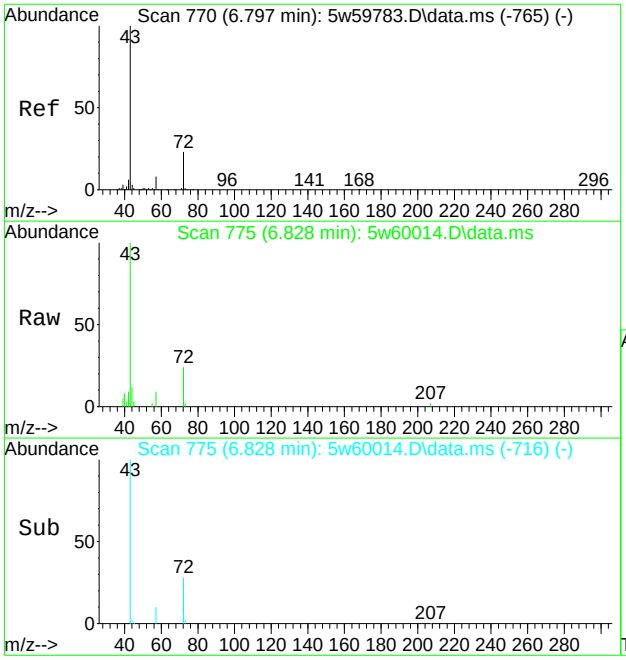


#39
VINYL ACETATE
Concen: 0.5343 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 86 Resp: 4044

Ion	Ratio	Lower	Upper
86	100		
43	1015.0	1379.7	1439.7#
44	26.3	36.9	96.9#

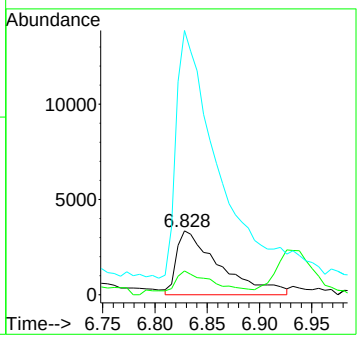


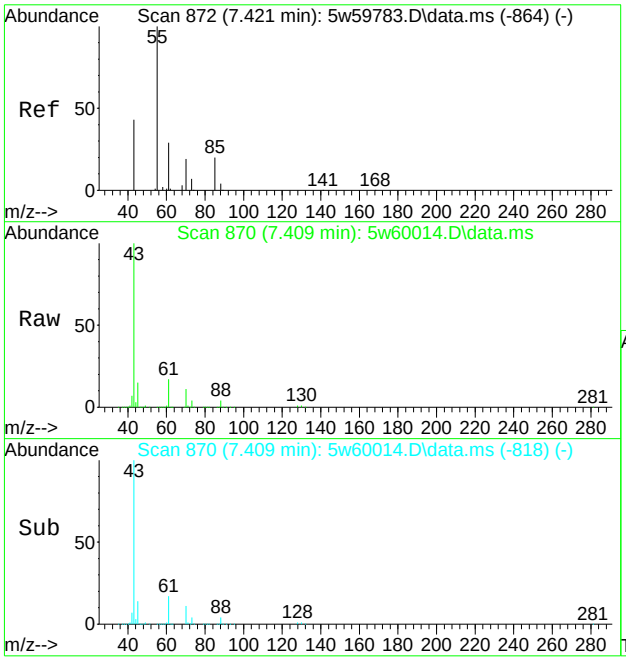


#41
METHYL ETHYL KETONE
Concen: 0.5349 PPBV m
RT: 6.828 min Scan# 775
Delta R.T. 0.031 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 72 Resp: 9685

Ion	Ratio	Lower	Upper
72	100		
57	37.2	4.8	64.8
43	413.6	415.9	475.9#

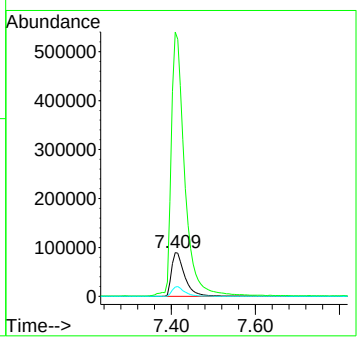


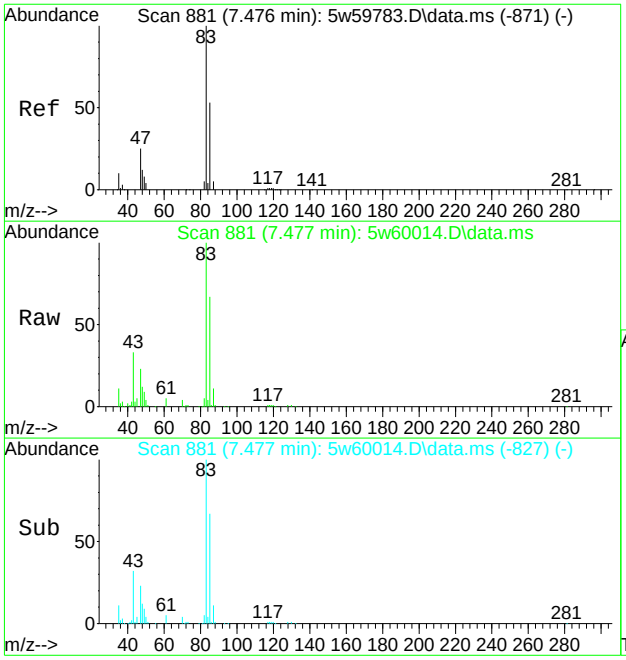


#44
ETHYL ACETATE
Concen: 14.2028 PPBV
RT: 7.409 min Scan# 870
Delta R.T. -0.012 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 61 Resp: 196496

Ion	Ratio	Lower	Upper
61	100		
43	610.5	560.5	620.5
88	21.4	4.5	64.5

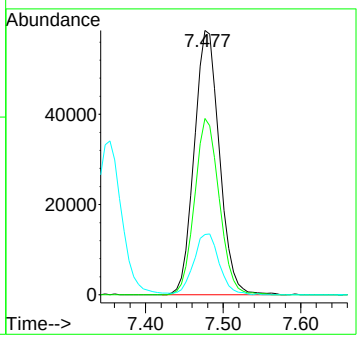


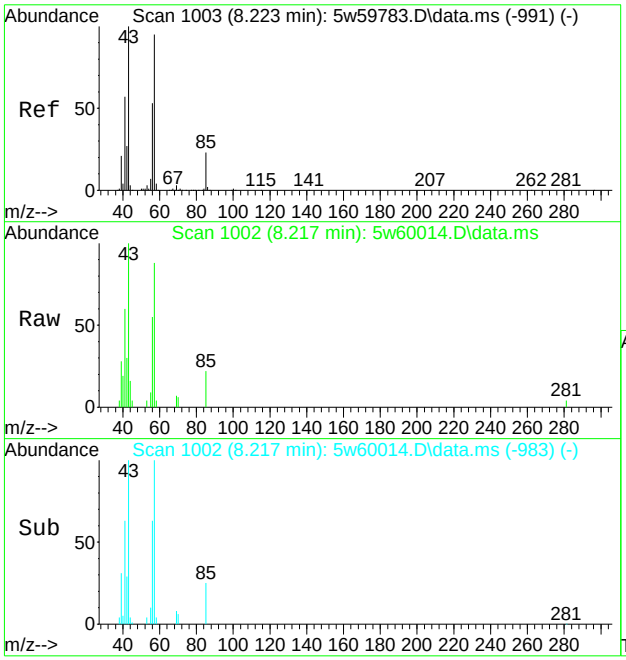


#46
CHLOROFORM
Concen: 1.2657 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 83 Resp: 131916

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.6	95.6
47	23.4	0.0	55.2

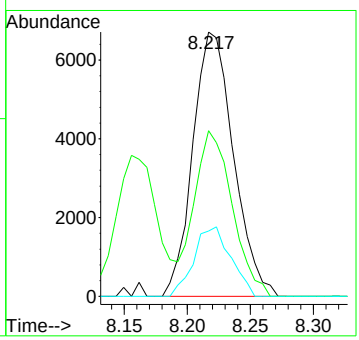


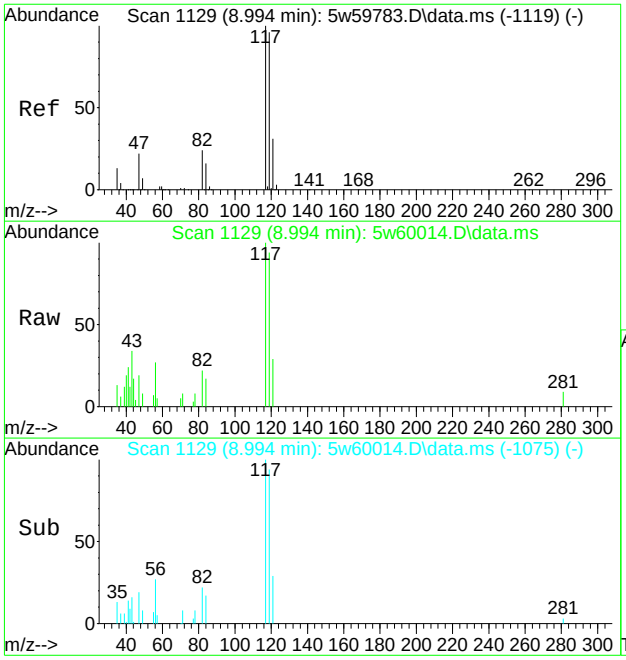


#47
2,4-DIMETHYLPENTANE
Concen: 0.1777 PPBV
RT: 8.217 min Scan# 1002
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 57 Resp: 15054

Ion	Ratio	Lower	Upper
57	100		
56	58.1	26.5	86.5
85	23.8	0.0	53.8

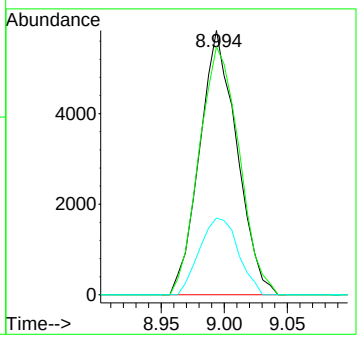


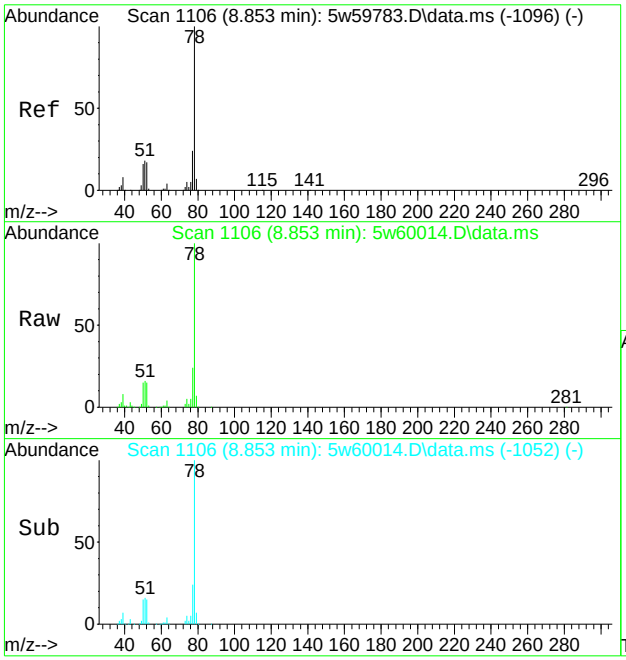


#49
CARBON TETRACHLORIDE
Concen: 0.1014 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion:117 Resp: 11971

Ion	Ratio	Lower	Upper
117	100		
119	100.8	66.9	126.9
121	30.1	1.3	61.3

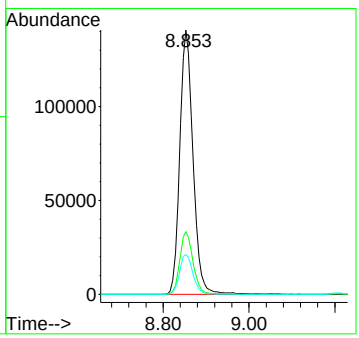


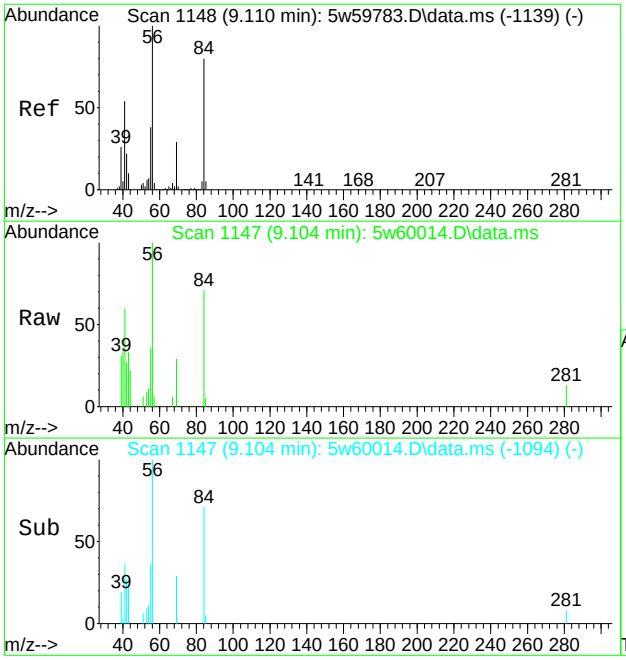


#52
BENZENE
Concen: 2.0787 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 78 Resp: 301704

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	15.2	0.0	46.9

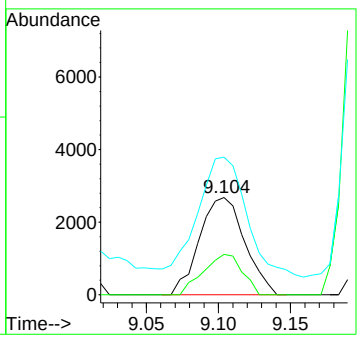


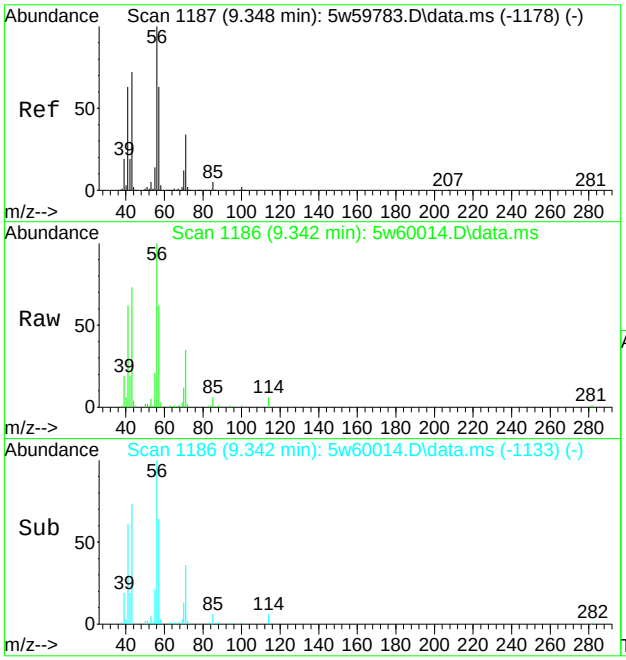


#53
CYCLOHEXANE
Concen: 0.1009 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 84 Resp: 5853

Ion	Ratio	Lower	Upper
84	100		
69	35.8	6.9	66.9
56	140.4	98.2	158.2

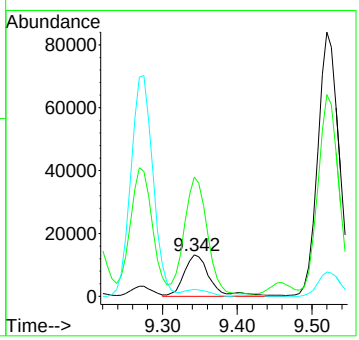


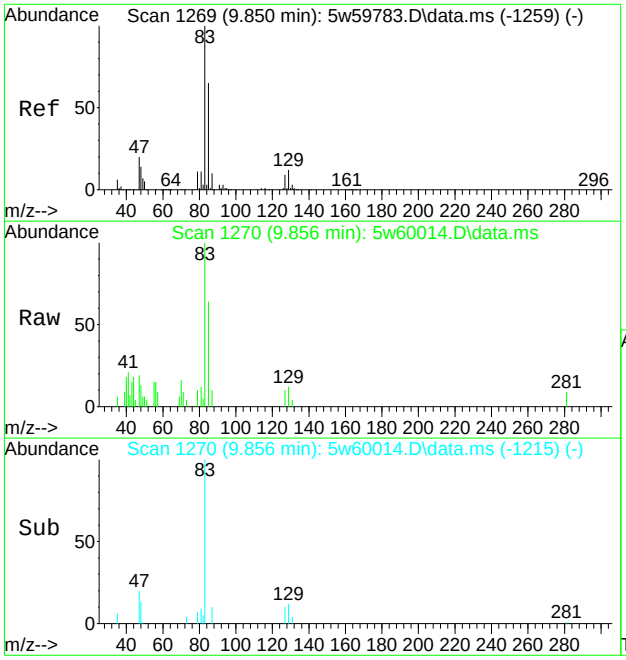


#54
2,3-DIMETHYLPENTANE
Concen: 1.0992 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 71 Resp: 32206

Ion	Ratio	Lower	Upper
71	100		
56	253.9	264.6	324.6#
85	14.9	0.0	45.3

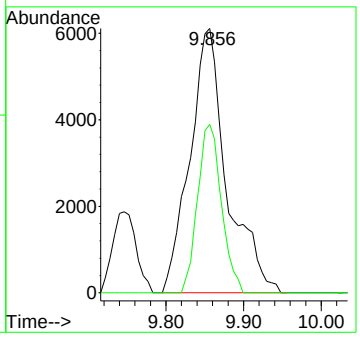


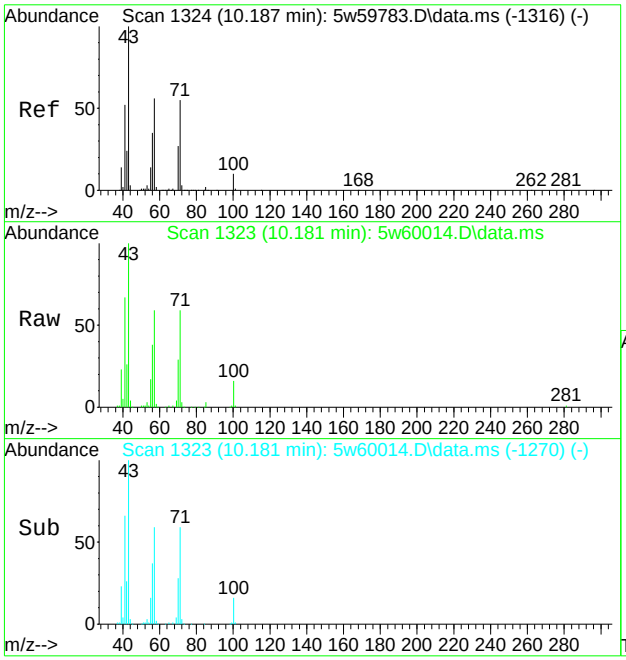


#59
BROMODICHLOROMETHANE
Concen: 0.1583 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 83 Resp: 20298

Ion	Ratio	Lower	Upper
83	100		
85	40.7	33.4	93.4

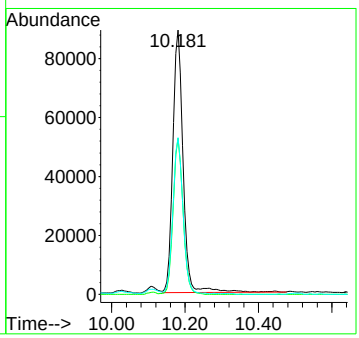


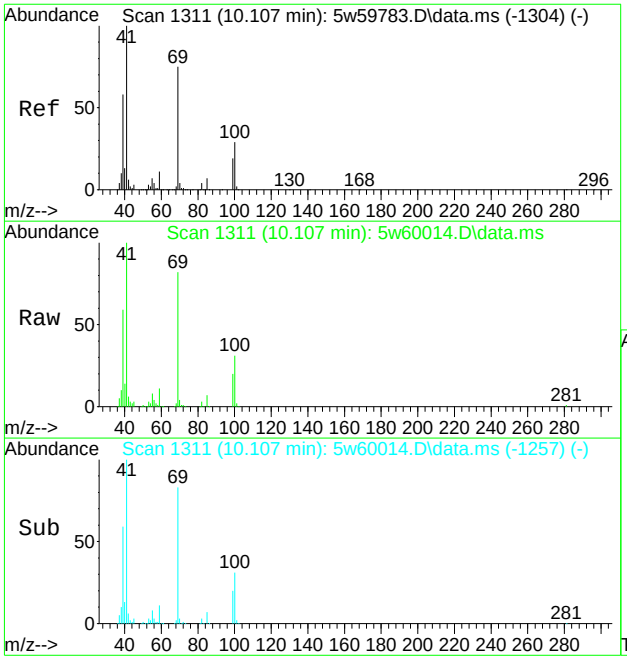


#62
HEPTANE
Concen: 2.0899 PPBV
RT: 10.181 min Scan# 1323
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 43 Resp: 174530

Ion	Ratio	Lower	Upper
43	100		
71	56.9	24.5	84.5
57	57.6	26.2	86.2

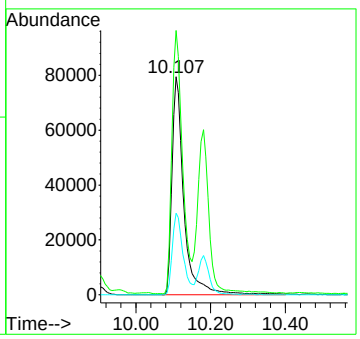


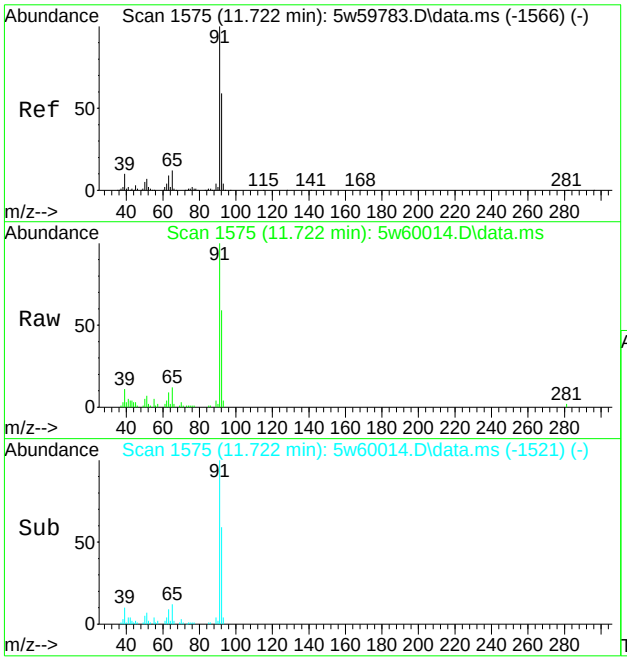


#63
METHYL METHACRYLATE
Concen: 3.7299 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 69 Resp: 176432

Ion	Ratio	Lower	Upper
69	100		
41	107.8	95.3	155.3
100	34.3	6.3	66.3

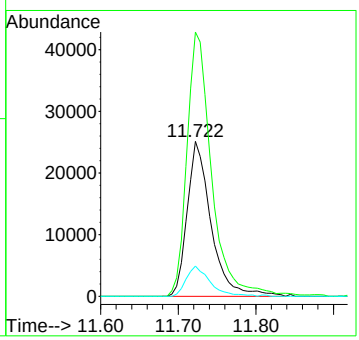


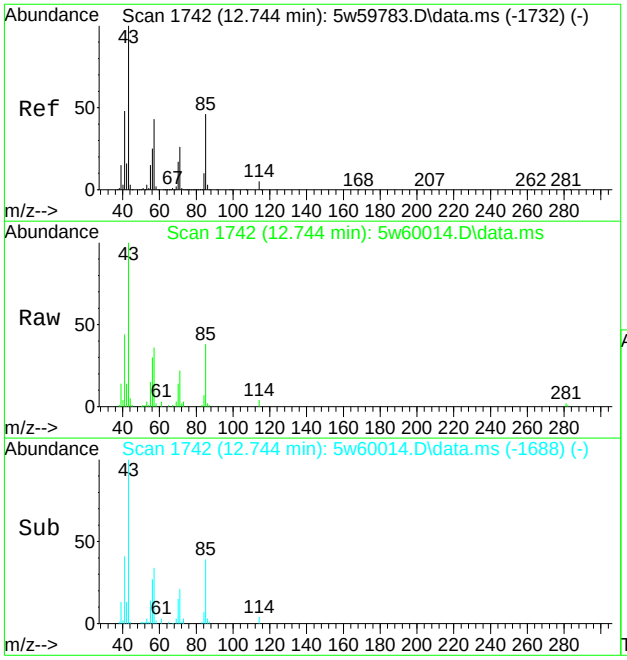


#66
TOLUENE
Concen: 0.4968 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 92 Resp: 53901

Ion	Ratio	Lower	Upper
92	100		
91	176.5	140.1	200.1
65	19.5	0.0	53.1

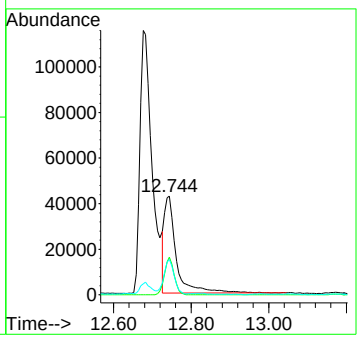


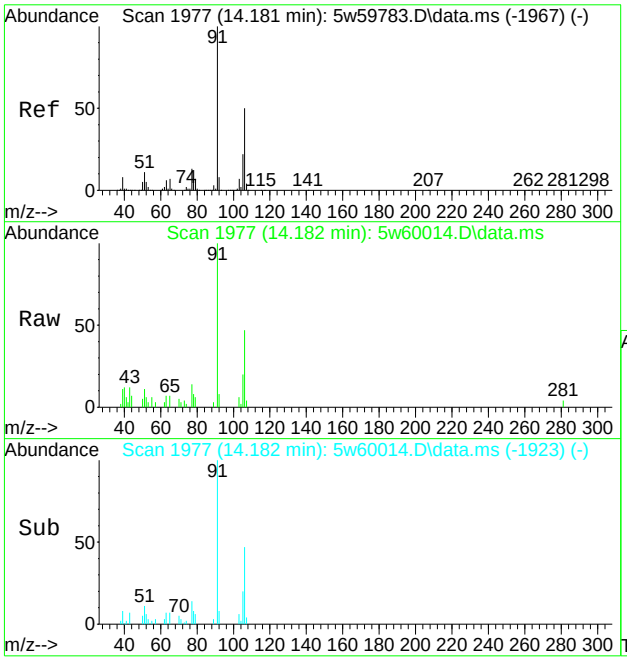


#76
OCTANE
Concen: 0.8854 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 43 Resp: 91318

Ion	Ratio	Lower	Upper
43	100		
85	31.0	14.6	74.6
57	35.4	13.7	73.7

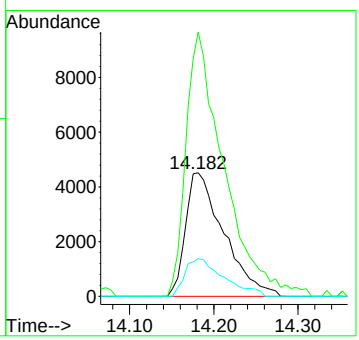


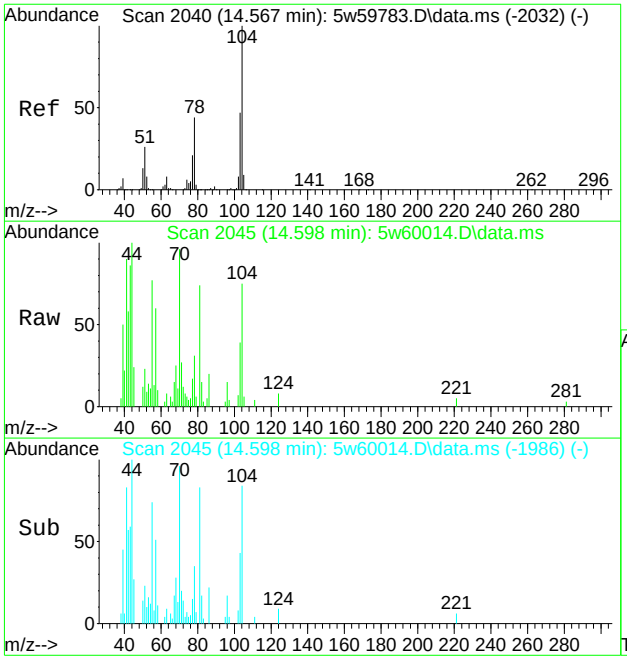


#80
m,p-XYLENE
Concen: 0.1740 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion:106 Resp: 14273

Ion	Ratio	Lower	Upper
106	100		
91	213.9	171.0	231.0
77	30.3	0.0	56.7

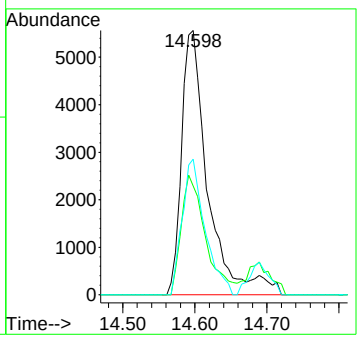


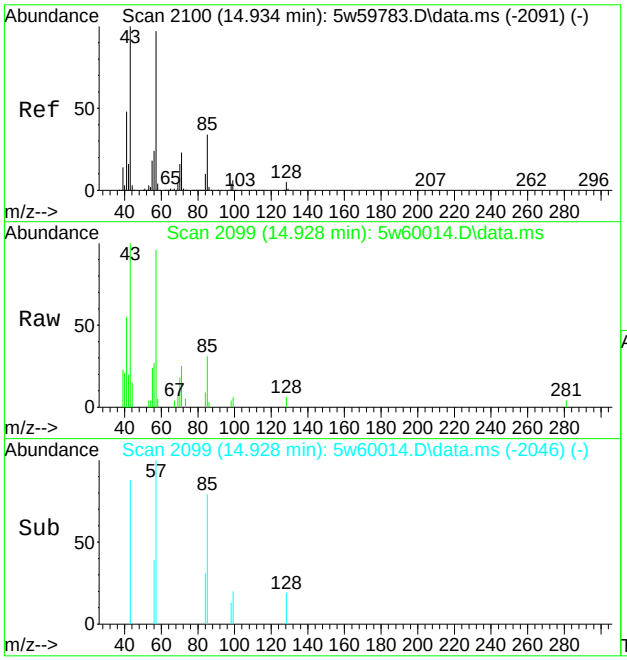


#82
STYRENE
Concen: 0.1169 PPBV
RT: 14.598 min Scan# 2045
Delta R.T. 0.031 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion:104 Resp: 14007

Ion	Ratio	Lower	Upper
104	100		
78	42.6	13.3	73.3
103	44.8	17.2	77.2

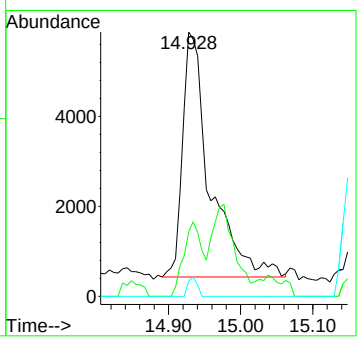


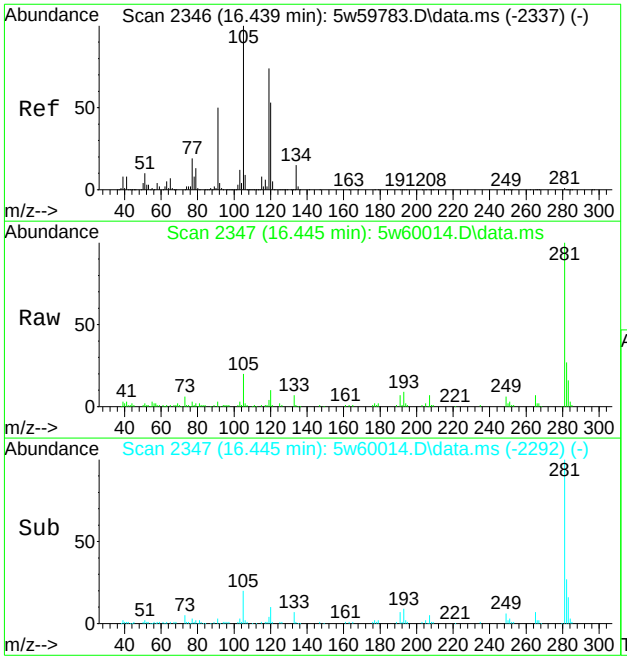


#83
NONANE
Concen: 0.1382 PPBV
RT: 14.928 min Scan# 2099
Delta R.T. -0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion: 43 Resp: 14418

Ion	Ratio	Lower	Upper
43	100		
71	20.7	0.0	52.7
128	2.6	0.0	34.7

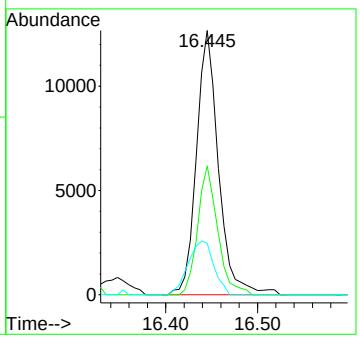




#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.1133 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w60014.D
Acq: 24 Nov 2025 8:52 pm

Tgt Ion:105 Resp: 21146

Ion	Ratio	Lower	Upper
105	100		
120	44.2	25.7	85.7
119	23.7	75.7	135.7#



Manual Integration Approval Summary

Sample Number: JE23791-4
Lab FileID: 5W60014.D
Injection Time: 11/24/25 20:52

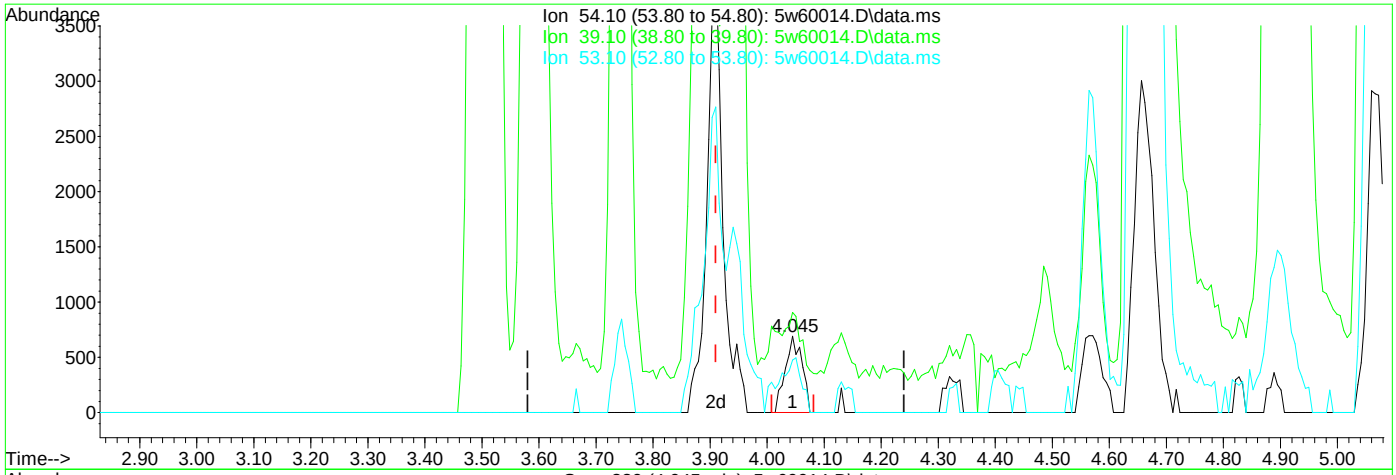
Method: TO-15
Analyst approved: 11/25/25 13:00 Claire Basilio
Supervisor approved: 11/26/25 19:38 Kanya Veerawat

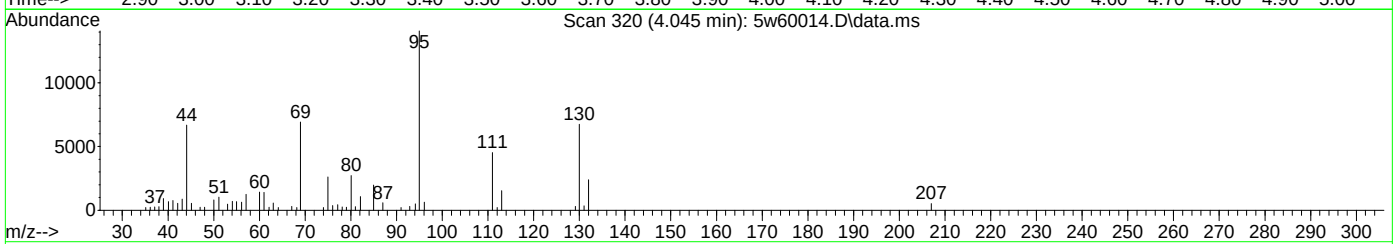
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		3.91	Missed peak
Methyl ethyl ketone	78-93-3		6.83	Missed peak

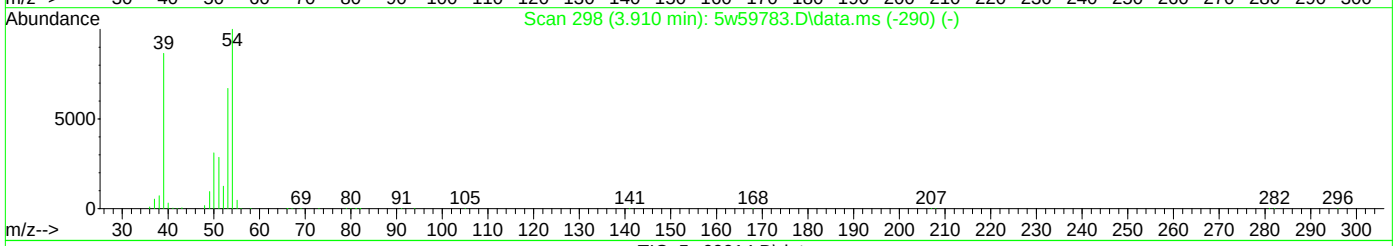
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60014.D
Acq On : 24 Nov 2025 8:52 pm
Operator : benk
Sample : je23791-4 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 23:04:40 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60014.D\data.ms

(12) 1,3-BUTADIENE

4.045min (+0.135) 0.05PPBV

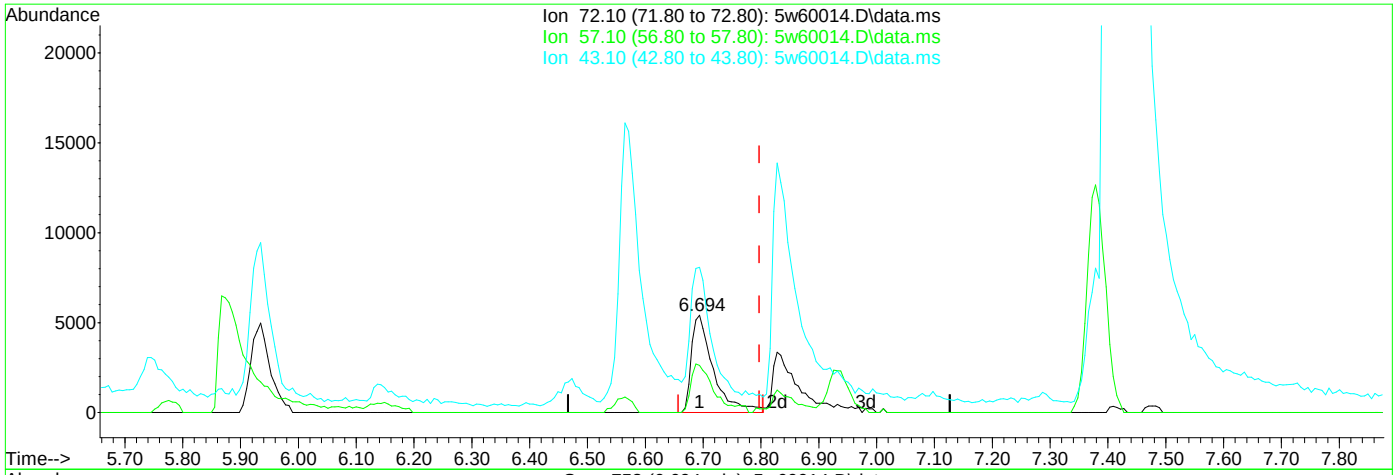
response 1415

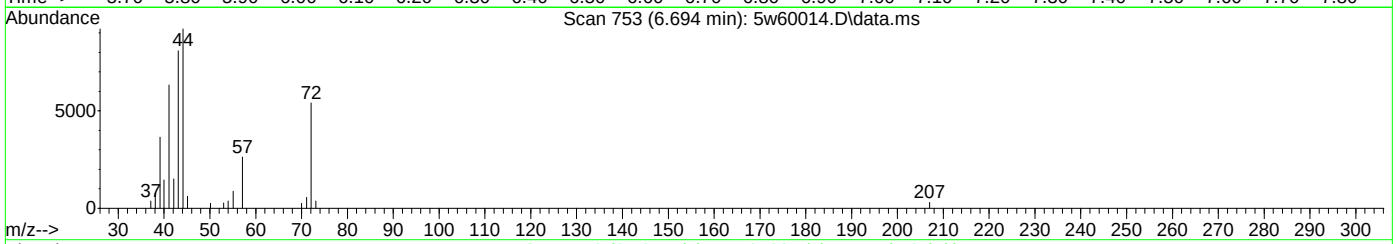
Ion	Exp%	Act%
54.10	100	100
39.10	112.00	112.65
53.10	70.20	98.37
0.00	0.00	0.00

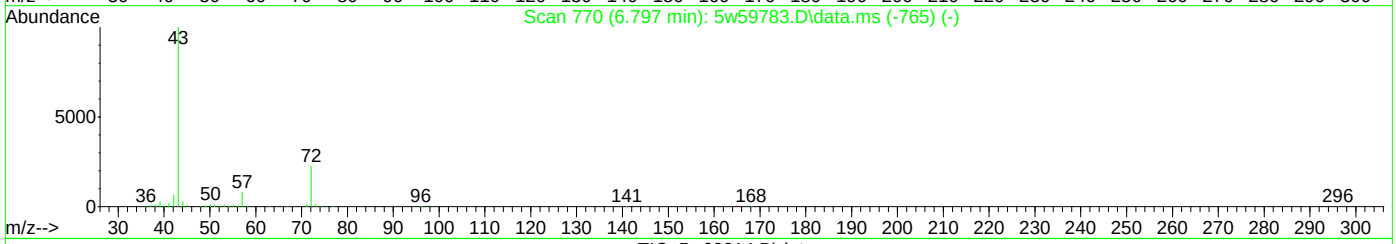
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60014.D
Acq On : 24 Nov 2025 8:52 pm
Operator : benk
Sample : je23791-4 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 23:04:40 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60014.D\data.ms

(41) METHYL ETHYL KETONE

6.694min (-0.103) 0.79PPBV

response 14238

Ion	Exp%	Act%
72.10	100	100
57.10	34.80	48.51
43.10	445.90	149.29#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60042.D
Acq On : 25 Nov 2025 5:54 pm
Operator : benk
Sample : je23791-4 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 27 05:09:55 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

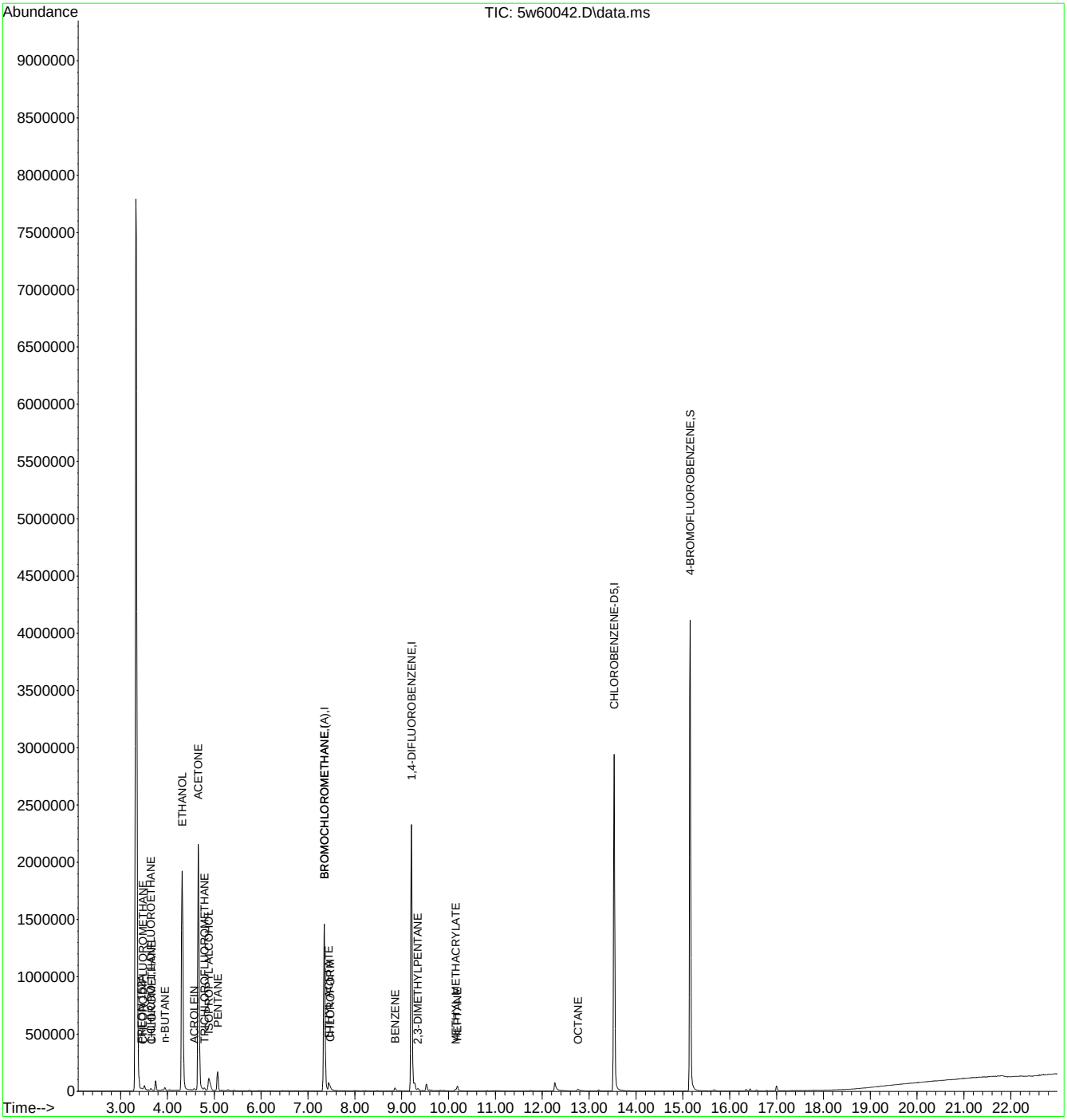
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	470578	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2109256	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1023811	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	471427	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1386180	10.84	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.40%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	6302	0.1806	PPBV	89
4) CHLORODIFLUOROMETHANE	3.476	67	1712	0.1173	PPBV #	1
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13527	0.1240	PPBV #	88
10) CHLOROMETHANE	3.659	52	1849	0.1250	PPBV #	68
13) n-BUTANE	3.947	43	21799	0.4860	PPBV #	93
18) ACROLEIN	4.571	56	10684	0.7338	PPBV	82
21) TRICHLOROFLUOROMETHANE	4.791	101	14771	0.1284	PPBV	99
22) ISOPROPYL ALCOHOL	4.883	45	222289	2.4089	PPBV	94
23) ACETONE	4.656	58	1065919	57.7538	PPBV #	84
24) PENTANE	5.072	42	73497	1.5330	PPBV	96
28) ETHANOL	4.314	45	2745564	177.5931	PPBV	98
44) ETHYL ACETATE	7.440	61	18149	1.3067	PPBV	97
46) CHLOROFORM	7.477	83	13709	0.1310	PPBV	97
52) BENZENE	8.859	78	30349	0.2148	PPBV	97
54) 2,3-DIMETHYLPENTANE	9.342	71	3014	0.1057	PPBV #	79
62) HEPTANE	10.187	43	17848	0.2195	PPBV	98
63) METHYL METHACRYLATE	10.150	69	14123	0.3067	PPBV #	48
76) OCTANE	12.762	43	25893	0.2662	PPBV #	50

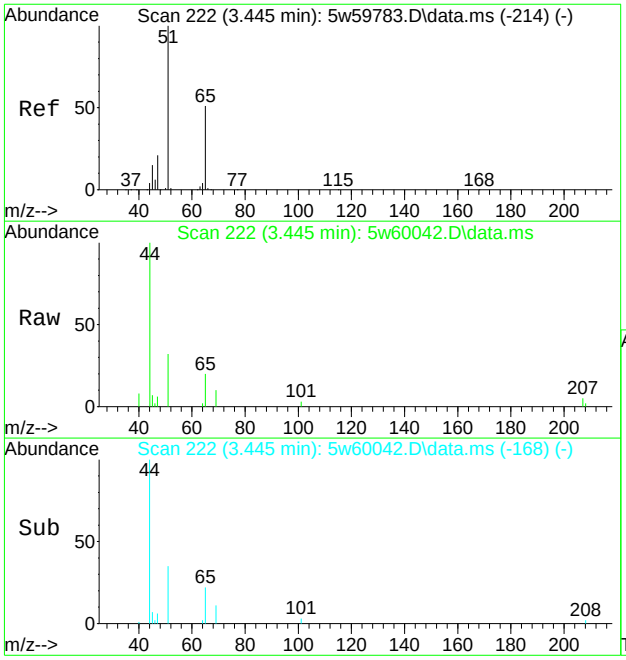
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60042.D
Acq On : 25 Nov 2025 5:54 pm
Operator : benk
Sample : je23791-4 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 27 05:09:55 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

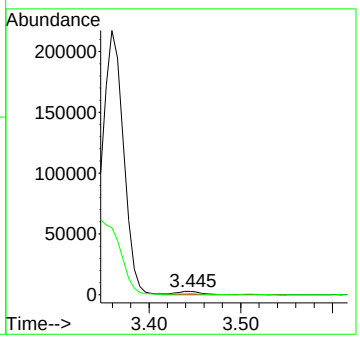


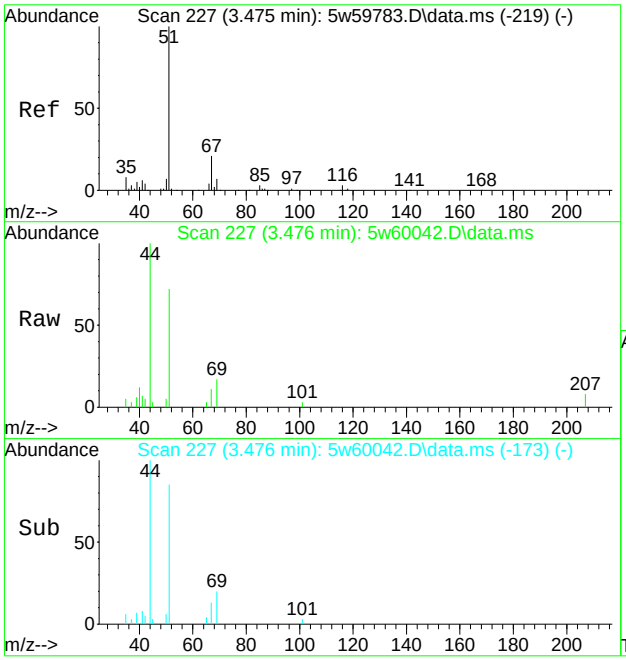


#3
FREON 152A
Concen: 0.1806 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 65 Resp: 6302

Ion	Ratio	Lower	Upper
65	100		
45	23.9	0.0	60.0

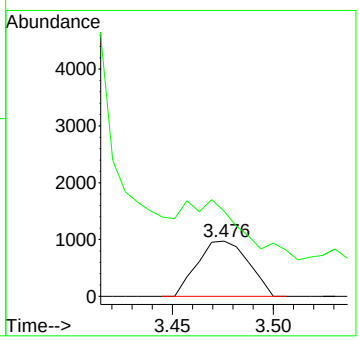


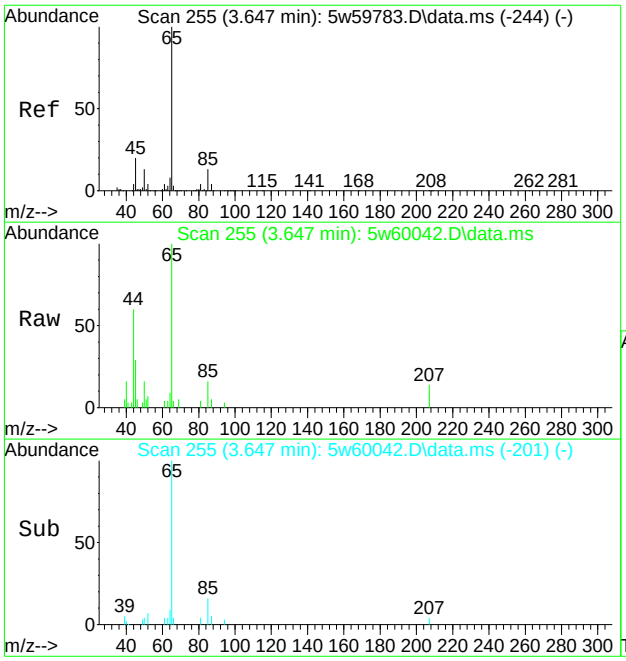


#4
CHLORODIFLUOROMETHANE
Concen: 0.1173 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 67 Resp: 1712

Ion	Ratio	Lower	Upper
67	100		
69	154.3	1.0	61.0#

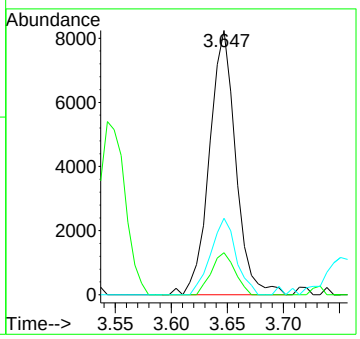


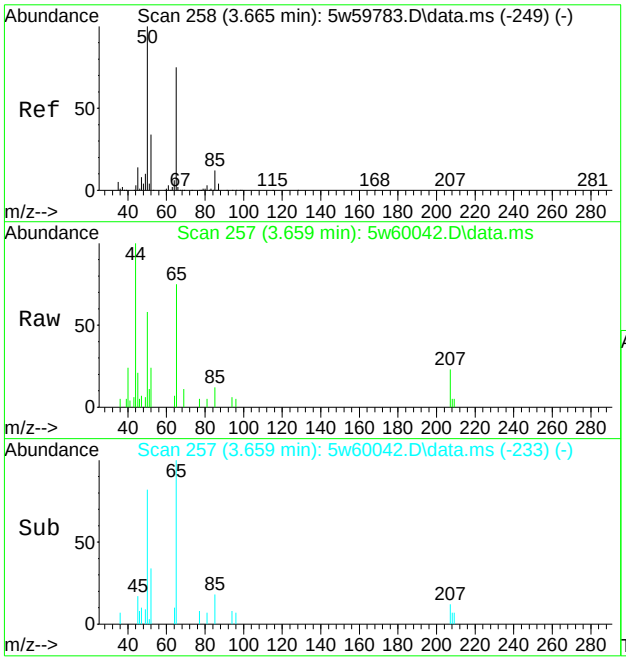


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.1240 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 65 Resp: 13527

Ion	Ratio	Lower	Upper
65	100		
85	14.3	11.5	21.3
45	27.9	14.0	26.0#

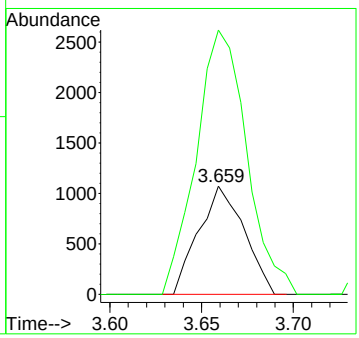


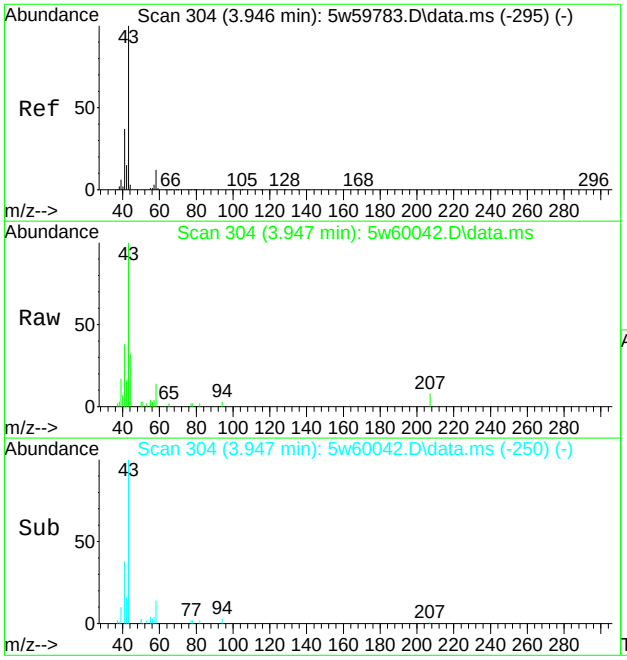


#10
CHLOROMETHANE
Concen: 0.1250 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 52 Resp: 1849

Ion	Ratio	Lower	Upper
52	100		
50	234.7	267.9	327.9#

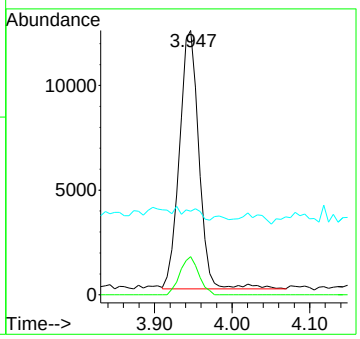


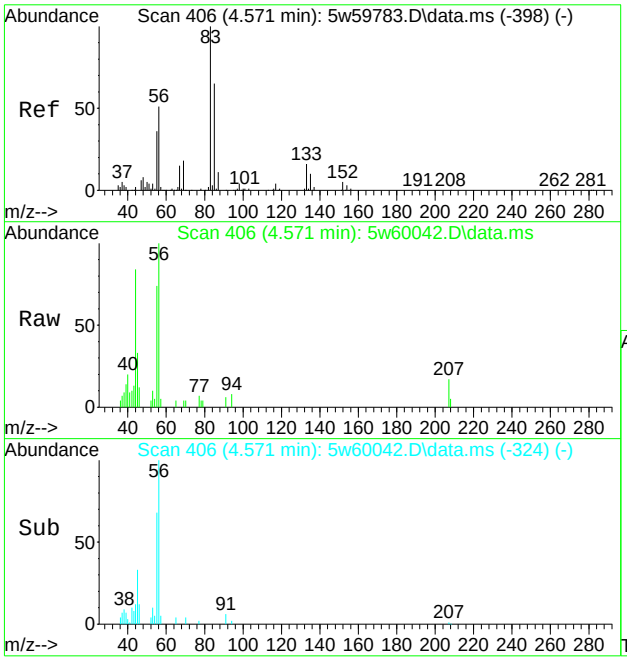


#13
n-BUTANE
Concen: 0.4860 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 43 Resp: 21799

Ion	Ratio	Lower	Upper
43	100		
58	14.1	0.0	42.6
44	0.0	0.0	34.9

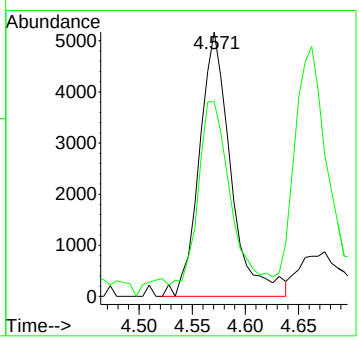


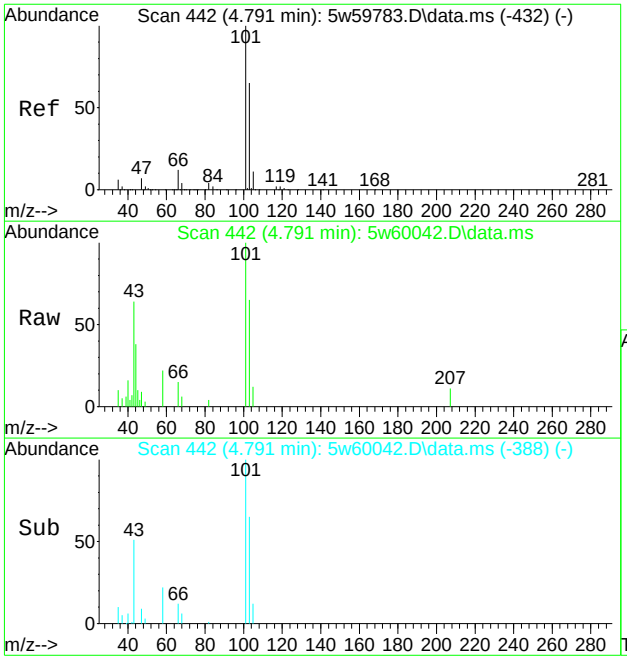


#18
ACROLEIN
Concen: 0.7338 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 56 Resp: 10684

Ion	Ratio	Lower	Upper
56	100		
55	81.2	46.6	86.6

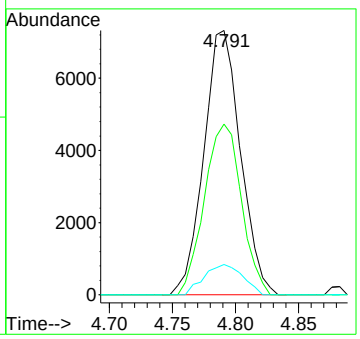


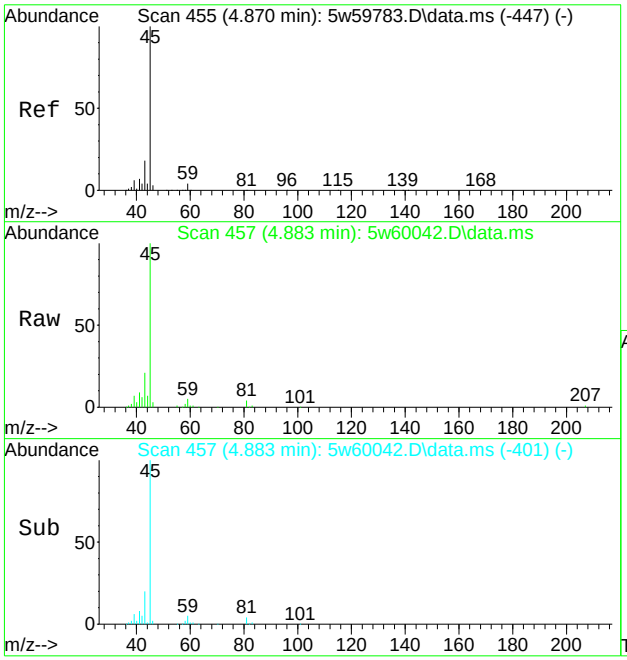


#21
TRICHLOROFLUOROMETHANE
Concen: 0.1284 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion:101 Resp: 14771

Ion	Ratio	Lower	Upper
101	100		
103	65.1	35.0	95.0
105	12.1	0.0	40.7

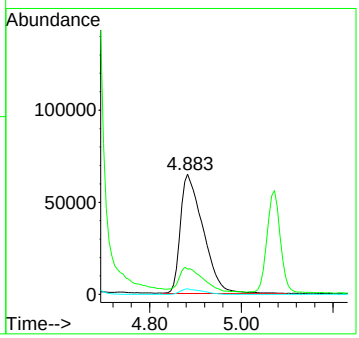


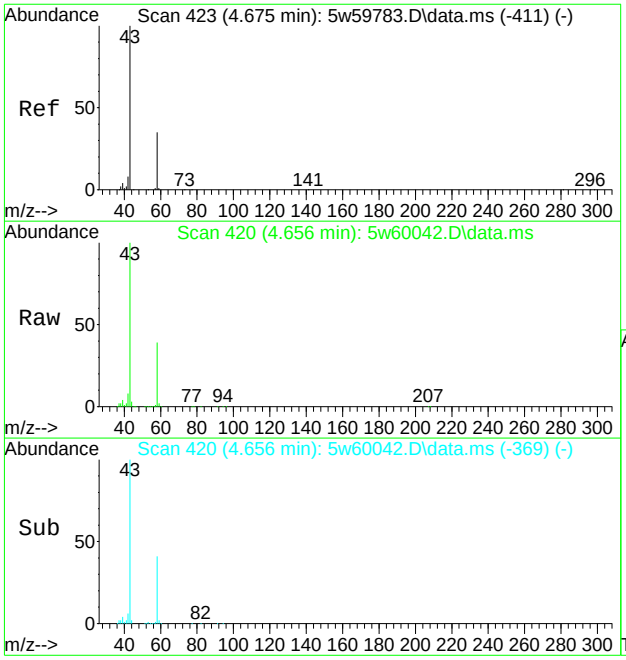


#22
ISOPROPYL ALCOHOL
Concen: 2.4089 PPBV
RT: 4.883 min Scan# 457
Delta R.T. 0.013 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 45 Resp: 222289

Ion	Ratio	Lower	Upper
45	100		
43	21.0	0.0	47.8
59	4.7	0.0	34.1

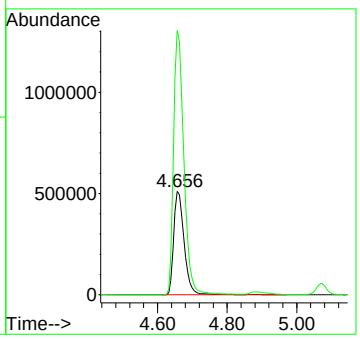


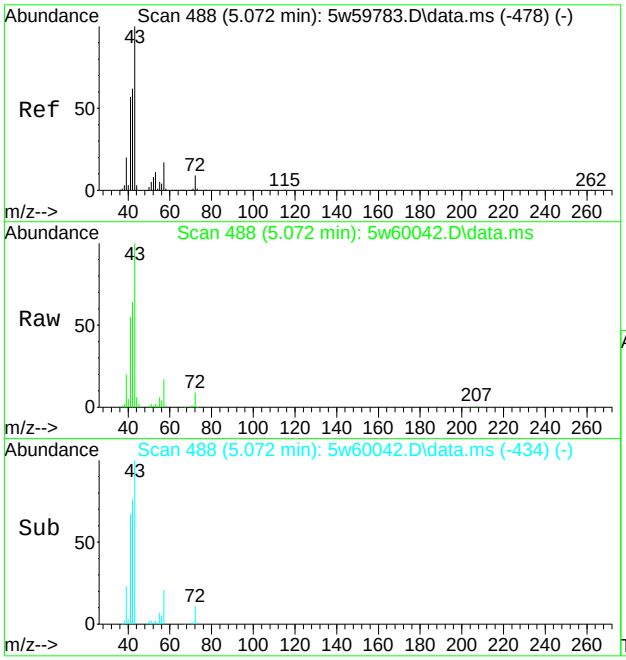


#23
ACETONE
Concen: 57.7538 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 58 Resp: 1065919

Ion	Ratio	Lower	Upper
58	100		
43	251.8	252.3	312.3#

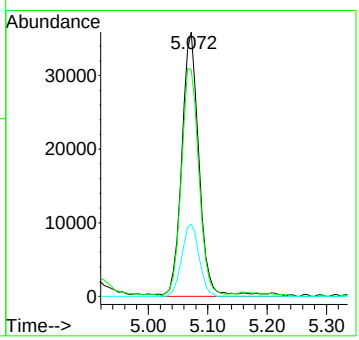


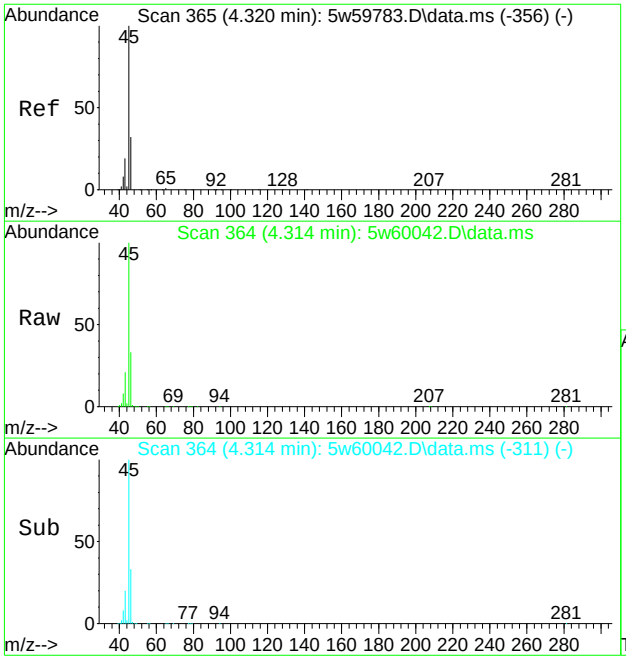


#24
PENTANE
Concen: 1.5330 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 42 Resp: 73497

Ion	Ratio	Lower	Upper
42	100		
41	87.5	62.3	122.3
57	27.3	0.0	57.7

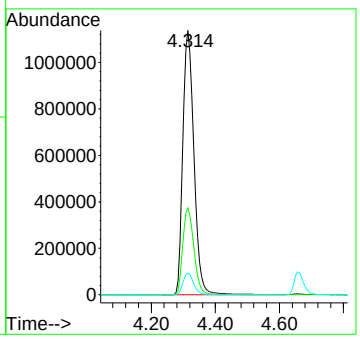


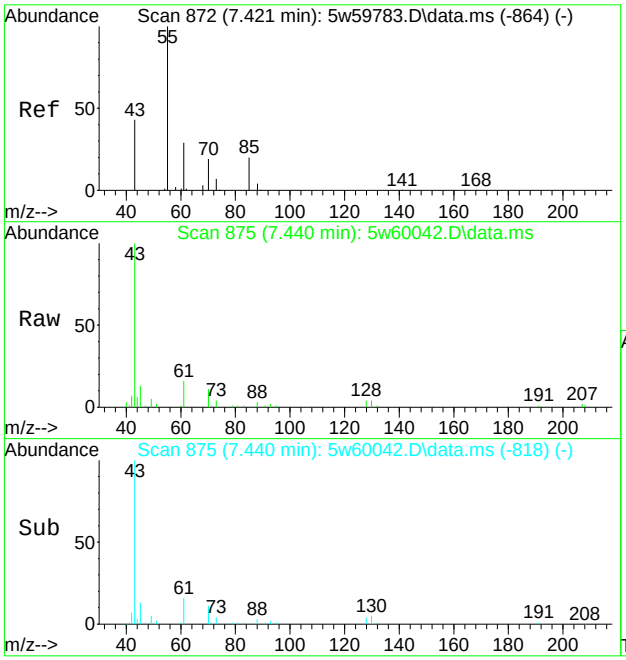


#28
ETHANOL
Concen: 177.5931 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 45 Resp: 2745564

Ion	Ratio	Lower	Upper
45	100		
46	33.1	2.0	62.0
42	8.0	0.0	38.5

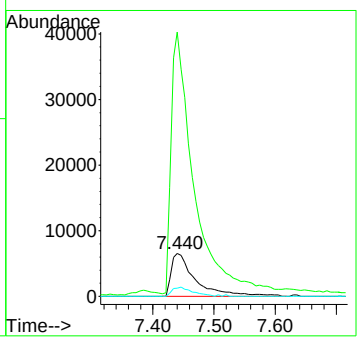


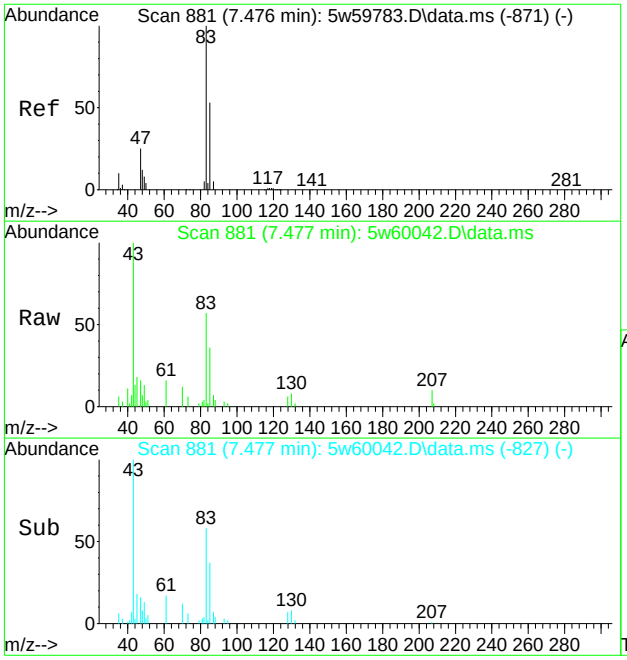


#44
ETHYL ACETATE
Concen: 1.3067 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.019 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 61 Resp: 18149

Ion	Ratio	Lower	Upper
61	100		
43	593.8	560.5	620.5
88	17.9	4.5	64.5

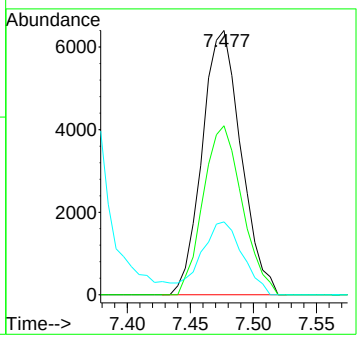


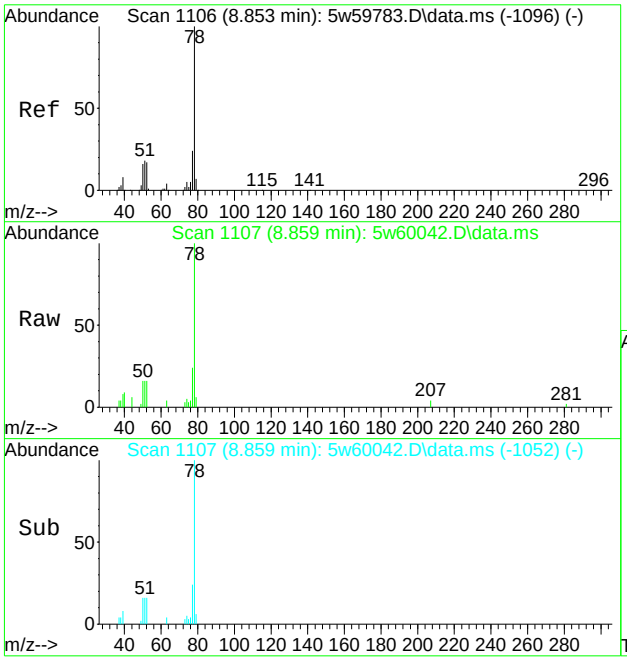


#46
CHLOROFORM
Concen: 0.1310 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 83 Resp: 13709

Ion	Ratio	Lower	Upper
83	100		
85	64.3	35.6	95.6
47	29.0	0.0	55.2

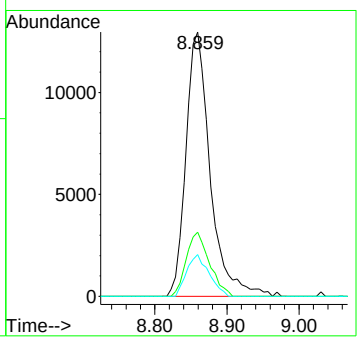


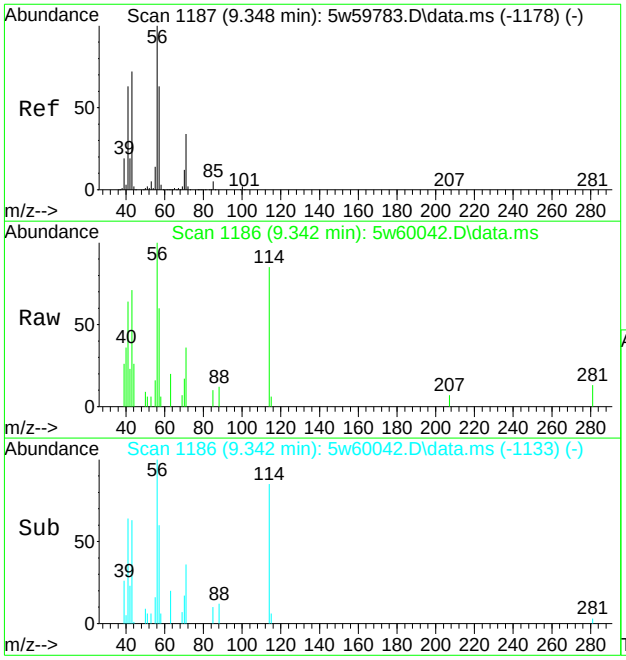


#52
BENZENE
Concen: 0.2148 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 78 Resp: 30349

Ion	Ratio	Lower	Upper
78	100		
77	23.2	0.0	53.8
52	14.5	0.0	46.9

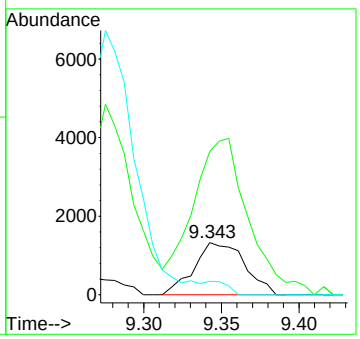


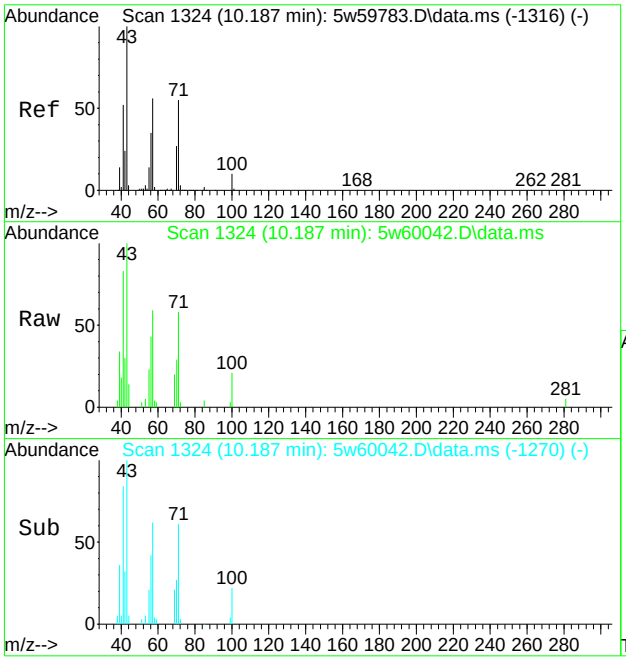


#54
2,3-DIMETHYLPENTANE
Concen: 0.1057 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 71 Resp: 3014

Ion	Ratio	Lower	Upper
71	100		
56	334.4	264.6	324.6#
85	0.0	0.0	45.3

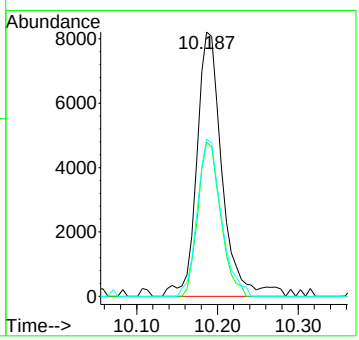


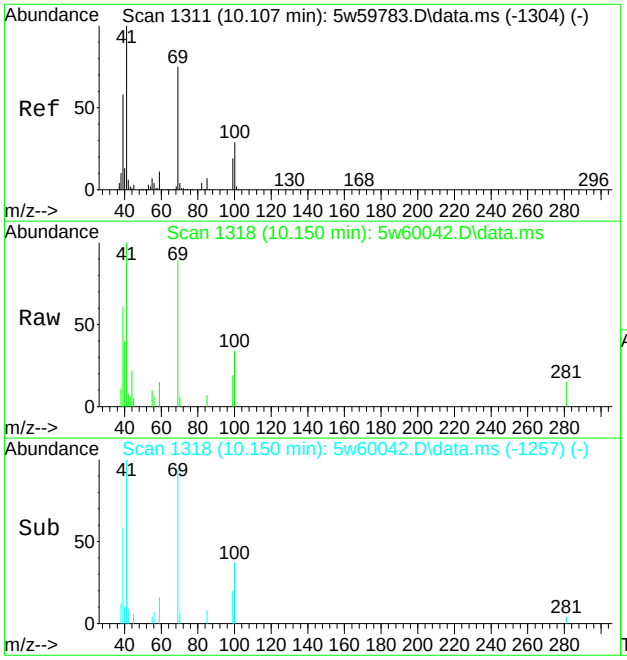


#62
HEPTANE
Concen: 0.2195 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 43 Resp: 17848

Ion	Ratio	Lower	Upper
43	100		
71	52.2	24.5	84.5
57	56.6	26.2	86.2

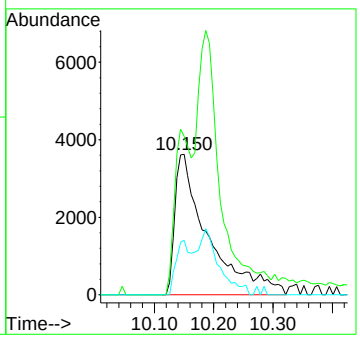


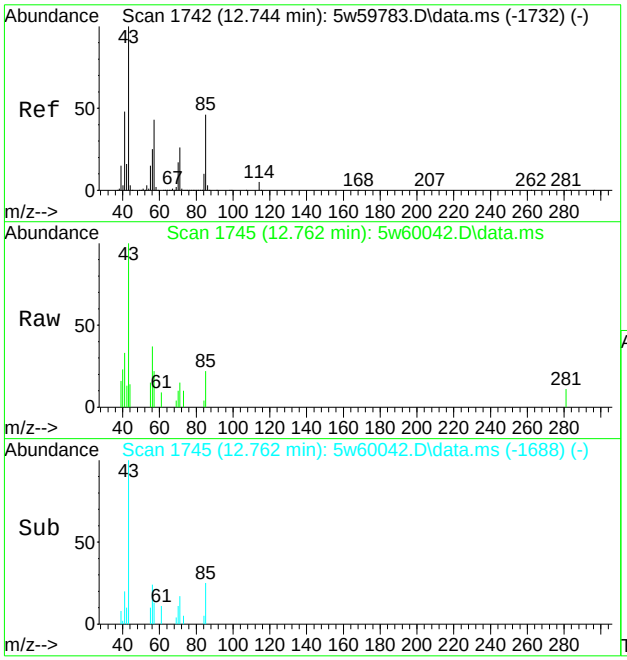


#63
METHYL METHACRYLATE
Concen: 0.3067 PPBV
RT: 10.150 min Scan# 1318
Delta R.T. 0.043 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 69 Resp: 14123

Ion	Ratio	Lower	Upper
69	100		
41	56.9	95.3	155.3#
100	22.7	6.3	66.3

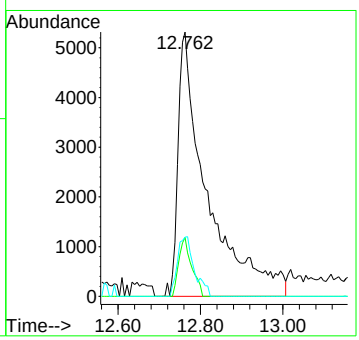




#76
OCTANE
Concen: 0.2662 PPBV
RT: 12.762 min Scan# 1745
Delta R.T. 0.018 min
Lab File: 5w60042.D
Acq: 25 Nov 2025 5:54 pm

Tgt Ion: 43 Resp: 25893

Ion	Ratio	Lower	Upper
43	100		
85	9.9	14.6	74.6#
57	13.1	13.7	73.7#



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

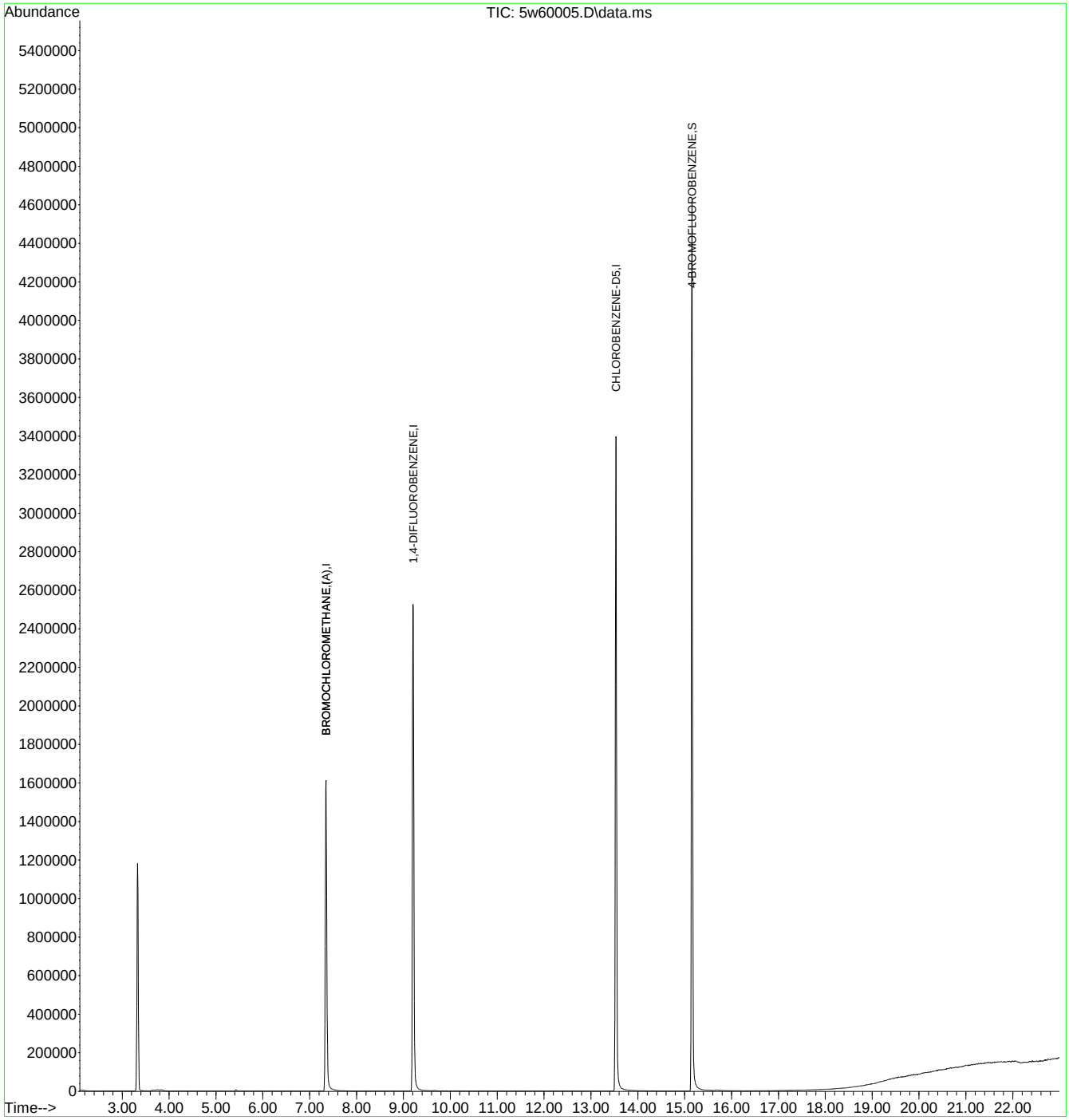
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	551412	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2422137	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1175032	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	553790	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1558462	10.62	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.20%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60038.D
Acq On : 25 Nov 2025 3:07 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2302,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:46:36 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.342	128	534553	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.208	114	2339544	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1127485	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.342	128	536453	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1501598	10.66	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.60%			
Target Compounds						Qvalue

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

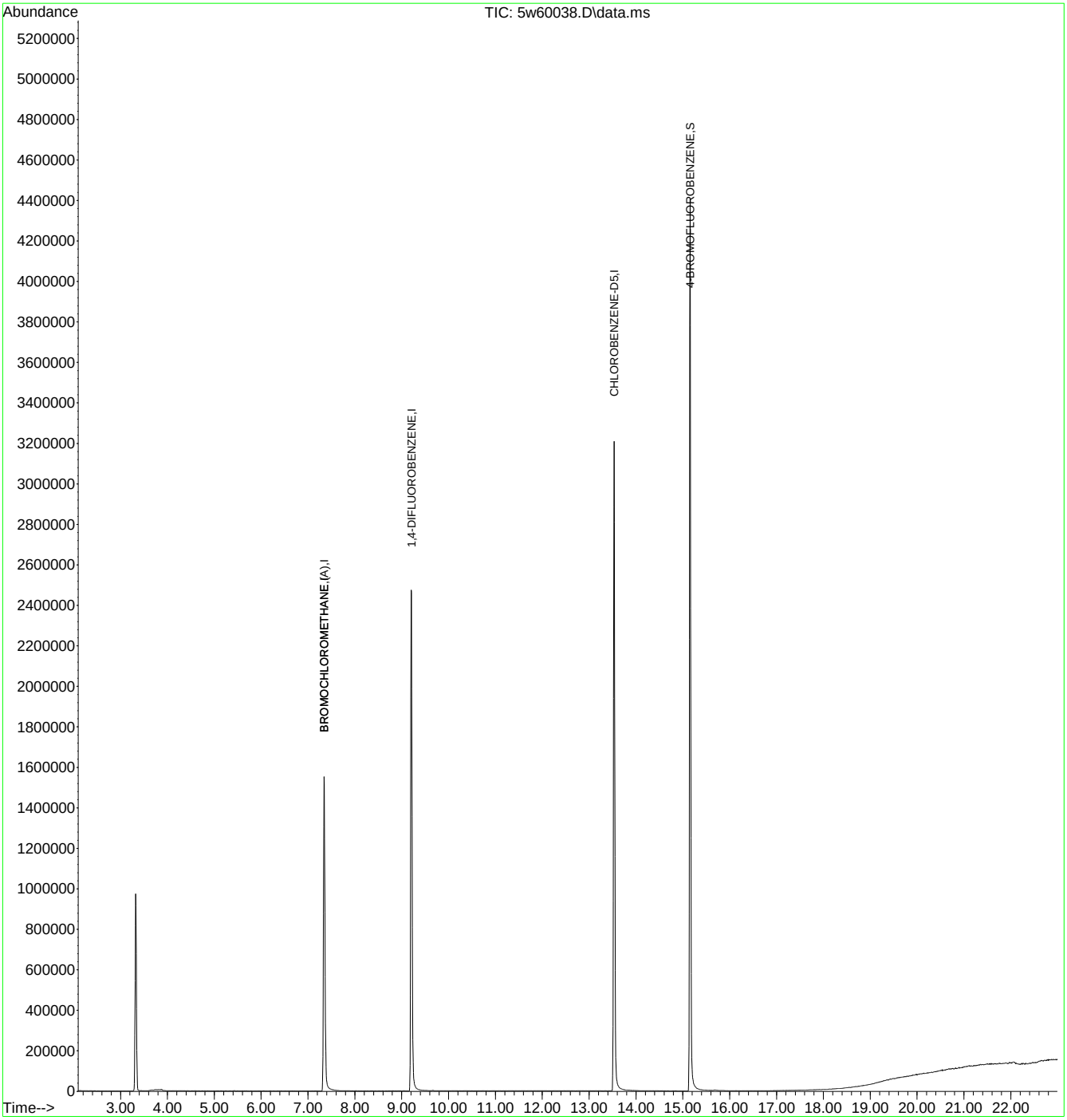
7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60038.D
Acq On : 25 Nov 2025 3:07 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2302,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:46:36 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

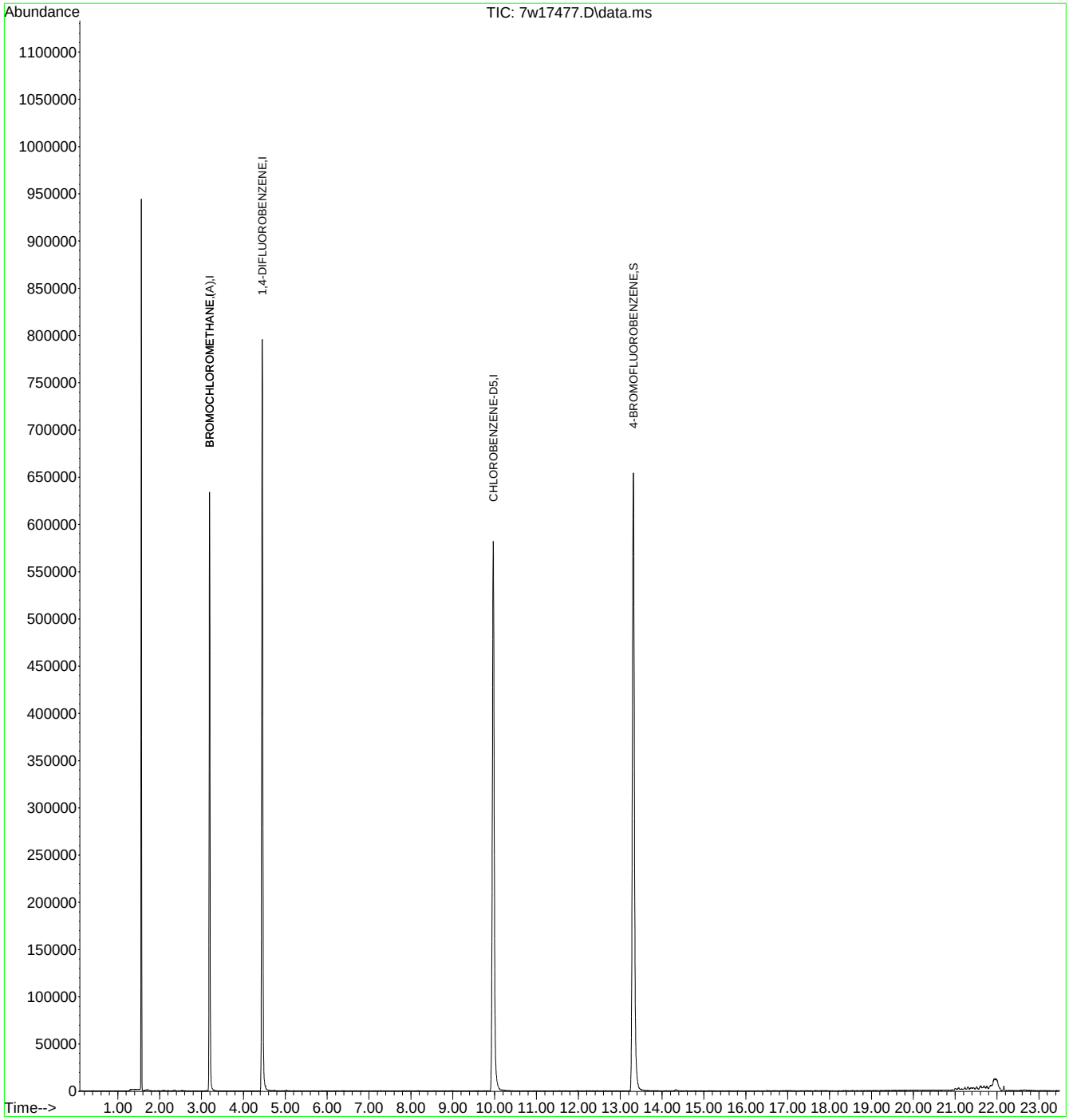
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	128174	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	642694	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	594320	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	128174	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	451678	9.44	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

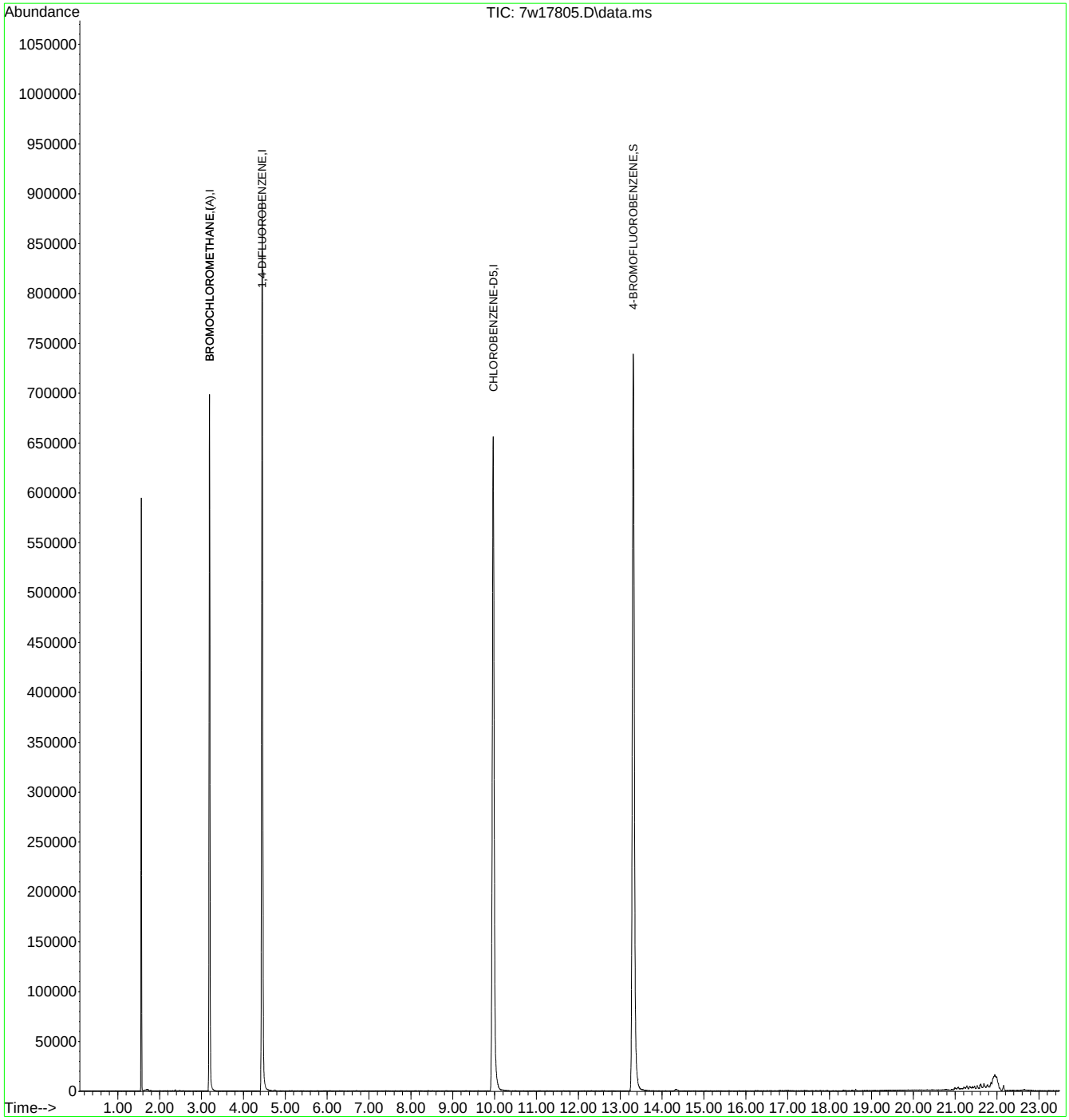
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	141808	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	703798	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	657479	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	141808	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	501563	9.47	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	477635	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2106400	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1093252	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	477635	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1356906	9.93	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.30%				
Target Compounds							Qvalue
2) FREON 115	3.378	119	240600	7.3523	PPBV		99
3) FREON 152A	3.451	65	340897	9.6234	PPBV		96
4) CHLORODIFLUOROMETHANE	3.482	67	173657	11.7195	PPBV		97
5) CHLOROTRIFLUOROETHENE	3.512	116	869018	11.7123	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.555	85	1610737	11.7838	PPBV		98
7) PROPYLENE	3.506	41	350050	9.5479	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1227255	11.0863	PPBV		98
9) FREON 114	3.739	85	1541030	12.3325	PPBV		100
10) CHLOROMETHANE	3.671	52	145917	9.7203	PPBV		97
11) VINYL CHLORIDE	3.824	62	498599	10.7753	PPBV		100
12) 1,3-BUTADIENE	3.916	54	301164	10.8112	PPBV		99
13) n-BUTANE	3.953	43	488858	10.7389	PPBV		98
14) BROMOMETHANE	4.112	94	569388	11.5706	PPBV		100
15) CHLOROETHANE	4.234	64	221549	9.8142	PPBV		99
16) DICHLOROFLUOROMETHANE	4.295	67	1109461	11.2826	PPBV		99
17) ACETONITRILE	4.485	41	262953	10.1114	PPBV		100
18) ACROLEIN	4.577	56	156039	10.5589	PPBV		98
19) FREON 123	4.595	83	1275447	11.2118	PPBV	#	71
20) FREON 123A	4.638	117	772471	11.8230	PPBV		98
21) TRICHLOROFLUOROMETHANE	4.797	101	1369754	11.7315	PPBV		100
22) ISOPROPYL ALCOHOL	4.877	45	890471	9.5073	PPBV		99
23) ACETONE	4.681	58	190458	10.1670	PPBV		94
24) PENTANE	5.078	42	438928	9.0202	PPBV		99
25) IODOMETHANE	5.256	142	1749912	12.0245	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.323	96	543628	10.6119	PPBV		93
27) CARBON DISULFIDE	5.678	76	1448112	10.7882	PPBV		98
28) ETHANOL	4.326	45	178411	11.3698	PPBV		99
29) BROMOETHENE	4.485	106	577429	11.8977	PPBV		100
30) ACRYLONITRILE	5.048	52	316874	9.9950	PPBV		99
31) METHYLENE CHLORIDE	5.427	84	467883	9.7626	PPBV		92
32) 3-CHLOROPROPENE	5.525	76	226892	9.8346	PPBV		88
33) FREON 113	5.647	151	974773	11.4357	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	548163	10.2055	PPBV		94
35) TERTIARY BUTYL ALCOHOL	5.384	59	972270	10.1517	PPBV		99
36) METHYL TERTIARY BUTYL ...	6.479	73	1396961	10.3330	PPBV		97
37) TETRAHYDROFURAN	7.856	72	210812	11.3678	PPBV		91
38) HEXANE	7.385	57	756923	9.9262	PPBV		99
39) VINYL ACETATE	6.571	86	87754	11.3789	PPBV	#	75
40) 1,1-DICHLOROETHANE	6.424	63	953472	9.6741	PPBV		99
41) METHYL ETHYL KETONE	6.798	72	230629	12.5008	PPBV	#	84
42) cis-1,2-DICHLOROETHYLENE	7.201	96	583866	9.9734	PPBV		94
43) DIISOPROPYL ETHER	7.391	59	237718	11.8560	PPBV		94
44) ETHYL ACETATE	7.422	61	176619	12.5284	PPBV	#	1
45) METHYL ACRYLATE	7.409	55	948114	12.5543	PPBV		98
46) CHLOROFORM	7.477	83	1211542	11.4081	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.223	57	866235	10.0371	PPBV		99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1247024	11.2579	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1372682	11.4094	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	801218	10.8575	PPBV		99
52)	BENZENE	8.853	78	1557974	11.0402	PPBV		98
53)	CYCLOHEXANE	9.104	84	613975	10.8904	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.349	71	306612	10.7626	PPBV		92
55)	TRICHLOROETHYLENE	9.887	95	797832	11.0985	PPBV		100
56)	1,2-DICHLOROPROPANE	9.648	63	593320	9.0562	PPBV		99
57)	DIBROMOMETHANE	9.630	174	871066	10.8406	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	1136650	11.1015	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1381772	11.0855	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2319907	10.3884	PPBV		100
61)	1,4-DIOXANE	9.899	88	350755	10.8965	PPBV		94
62)	HEPTANE	10.181	43	766095	9.4348	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	517632	11.2549	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.792	58	471710	11.3302	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1017497	10.1371	PPBV		95
66)	TOLUENE	11.716	92	1121935	10.6362	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	902626	10.4980	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	919315	9.7025	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	631574	11.0269	PPBV		100
71)	2-HEXANONE	12.010	58	684568	11.9712	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	912136	12.0768	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	963989	12.9264	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.144	129	1579609	12.2672	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1280981	12.7862	PPBV		100
76)	OCTANE	12.738	43	1084136	10.4396	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1018658	12.4242	PPBV		99
78)	CHLOROBENZENE	13.582	112	1637921	11.9899	PPBV		100
79)	ETHYLBENZENE	13.980	91	2539898	12.1204	PPBV		100
80)	m,p-XYLENE	14.169	106	1940190	23.4941	PPBV		99
81)	o-XYLENE	14.677	106	958925	12.4007	PPBV		100
82)	STYRENE	14.567	104	1511270	12.5221	PPBV		99
83)	NONANE	14.928	43	1114955	10.6142	PPBV		97
84)	BROMOFORM	14.243	173	1714310	13.4966	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1674189	12.4499	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1150923	10.6445	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2755878	11.6391	PPBV		100
89)	BROMOBENZENE	15.375	77	1347534	10.9390	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	747013	11.3913	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	769370	12.1202	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2824547	13.0416	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2342515	11.6338	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1204069	12.1371	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	534840	13.0829	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2503827	13.3251	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1863396	12.9729	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2290925	13.2334	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1868035	12.0955	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	634126	12.2457	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2573220	12.9495	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	788089	13.4263	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1788603	12.4134	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	738576	12.8477	PPBV		99
105)	HEXACHLOROETHANE	17.607	117	1125990	11.3634	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1828537	13.6527	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1796737	13.4571	PPBV		100
108)	NAPHTHALENE	18.660	128	3954766	13.5904	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	2952896	10.2236	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

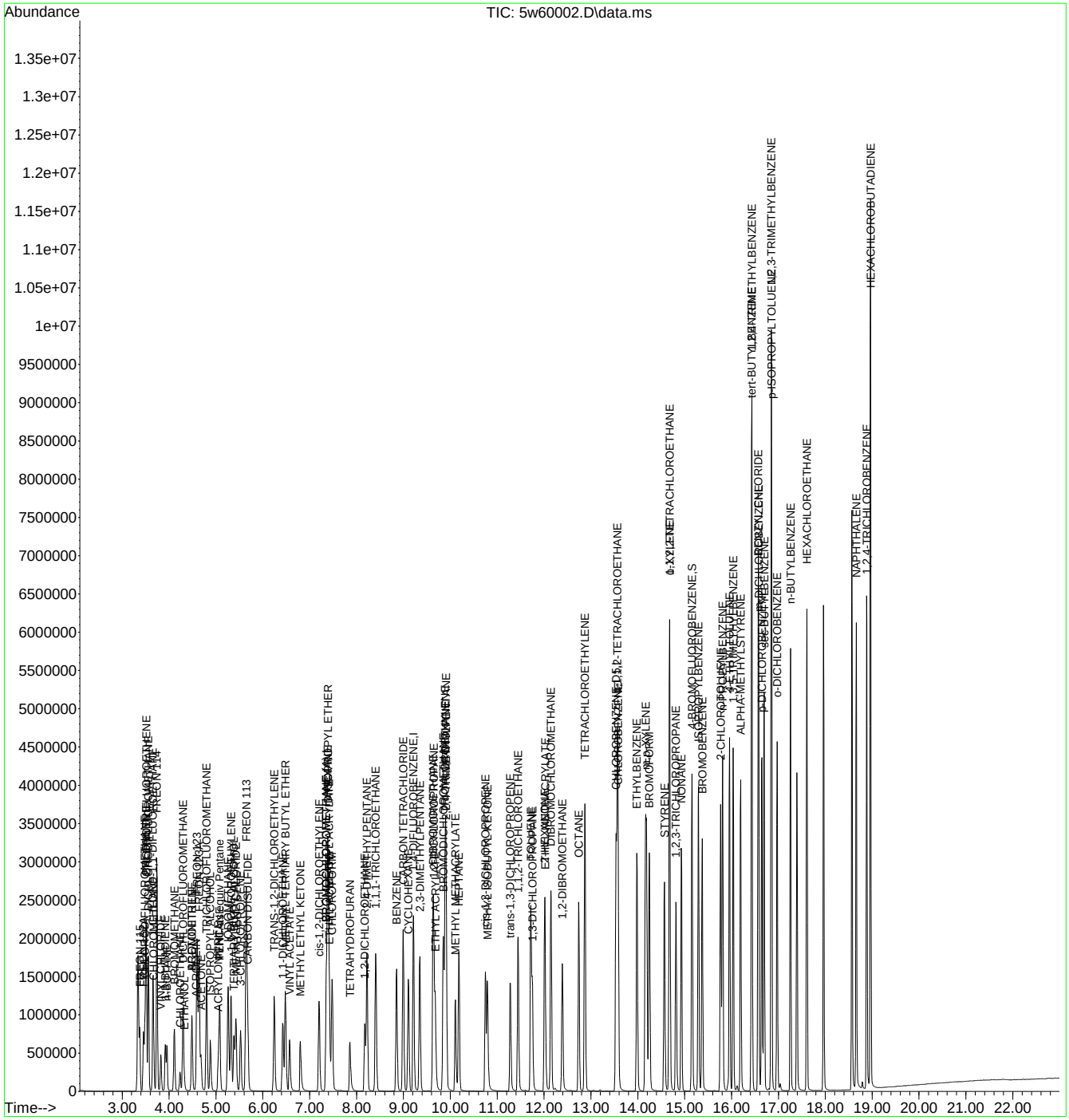
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	479179	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2114849	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1129270	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	479285	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1394712	9.88	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.80%			
Target Compounds						Qvalue
2) FREON 115	3.359	119	349972	10.6600	PPBV	100
3) FREON 152A	3.439	65	316320	8.9009	PPBV	96
4) CHLORODIFLUOROMETHANE	3.470	67	162018	10.8988	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.500	116	828169	11.1258	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.543	85	1534563	11.1904	PPBV	98
7) PROPYLENE	3.494	41	329492	8.9582	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	1195554	10.7651	PPBV	98
9) FREON 114	3.726	85	1510187	12.0467	PPBV	99
10) CHLOROMETHANE	3.659	52	144738	9.6107	PPBV	99
11) VINYL CHLORIDE	3.812	62	495530	10.6745	PPBV	99
12) 1,3-BUTADIENE	3.904	54	292494	10.4661	PPBV	98
13) n-BUTANE	3.941	43	458598	10.0417	PPBV	98
14) BROMOMETHANE	4.100	94	567948	11.5041	PPBV	99
15) CHLOROETHANE	4.216	64	222236	9.8129	PPBV	98
16) DICHLOROFLUOROMETHANE	4.283	67	1068372	10.8297	PPBV	99
17) ACETONITRILE	4.473	41	251312	9.6326	PPBV	99
18) ACROLEIN	4.565	56	155502	10.4886	PPBV	98
19) FREON 123	4.583	83	1272619	11.1509	PPBV	71
20) FREON 123A	4.626	117	764670	11.6659	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.785	101	1500156	12.8070	PPBV	100
22) ISOPROPYL ALCOHOL	4.864	45	862773	9.1819	PPBV	98
23) ACETONE	4.669	58	186096	9.9021	PPBV	94
24) PENTANE	5.066	42	428867	8.7850	PPBV	99
25) IODOMETHANE	5.250	142	1697179	11.6246	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.311	96	525383	10.2227	PPBV	93
27) CARBON DISULFIDE	5.666	76	1428932	10.6111	PPBV	98
28) ETHANOL	4.314	45	168540	10.7061	PPBV	99
29) BROMOETHENE	4.473	106	568162	11.6690	PPBV	100
30) ACRYLONITRILE	5.036	52	305406	9.6023	PPBV	99
31) METHYLENE CHLORIDE	5.415	84	455621	9.4761	PPBV	92
32) 3-CHLOROPROPENE	5.513	76	224082	9.6815	PPBV	87
33) FREON 113	5.635	151	976601	11.4203	PPBV	96
34) TRANS-1,2-DICHLOROETHY...	6.235	96	544122	10.0977	PPBV	92
35) TERTIARY BUTYL ALCOHOL	5.372	59	930895	9.6884	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1388096	10.2344	PPBV	97
37) TETRAHYDROFURAN	7.850	72	205030	11.0204	PPBV	90
38) HEXANE	7.379	57	739090	9.6611	PPBV	99
39) VINYL ACETATE	6.559	86	87525	11.3126	PPBV #	70
40) 1,1-DICHLOROETHANE	6.418	63	946262	9.5700	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	225201	12.1673	PPBV #	82
42) cis-1,2-DICHLOROETHYLENE	7.195	96	583002	9.9265	PPBV	94
43) DIISOPROPYL ETHER	7.385	59	234562	11.6609	PPBV	94
44) ETHYL ACETATE	7.415	61	171373	12.1171	PPBV #	1
45) METHYL ACRYLATE	7.403	55	931131	12.2897	PPBV	98
46) CHLOROFORM	7.471	83	1190185	11.1709	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.217	57	848788	9.8032	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.407	97	1227800	11.0486	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.988	117	1379991	11.4332	PPBV		100
50)	1,2-DICHLOROETHANE	8.168	62	792023	10.6983	PPBV		100
52)	BENZENE	8.847	78	1523228	10.7509	PPBV		99
53)	CYCLOHEXANE	9.104	84	604407	10.6779	PPBV		92
54)	2,3-DIMETHYLPENTANE	9.343	71	304244	10.6368	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	800597	11.0925	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	596490	9.0682	PPBV		99
57)	DIBROMOMETHANE	9.630	174	889311	11.0234	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1144267	11.1312	PPBV		99
59)	BROMODICHLOROMETHANE	9.844	83	1392832	11.1295	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.905	57	2373633	10.5865	PPBV		100
61)	1,4-DIOXANE	9.893	88	356621	11.0344	PPBV	#	75
62)	HEPTANE	10.181	43	763072	9.3600	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	518879	11.2369	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	478608	11.4499	PPBV		96
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1029199	10.2127	PPBV		95
66)	TOLUENE	11.716	92	1141793	10.7812	PPBV		99
67)	1,3-DICHLOROPROPANE	11.747	76	915403	10.6041	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	914117	9.6091	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.441	83	642885	11.1796	PPBV		99
71)	2-HEXANONE	12.010	58	687139	11.6329	PPBV		98
72)	ETHYL METHACRYLATE	12.022	69	924260	11.8470	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	965929	12.5393	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.144	129	1569979	11.8035	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1268536	12.2581	PPBV		99
76)	OCTANE	12.738	43	1078013	10.0496	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1040956	12.2912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1676579	11.8814	PPBV		99
79)	ETHYLBENZENE	13.980	91	2558019	11.8175	PPBV		100
80)	m,p-XYLENE	14.169	106	1994813	23.3851	PPBV		99
81)	o-XYLENE	14.677	106	961640	12.0392	PPBV		100
82)	STYRENE	14.567	104	1523708	12.2225	PPBV		99
83)	NONANE	14.928	43	1112505	10.2531	PPBV		98
84)	BROMOFORM	14.249	173	1725817	13.1538	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1686640	12.1424	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1146826	10.2683	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2846838	11.6398	PPBV		100
89)	BROMOBENZENE	15.375	77	1373208	10.7919	PPBV		97
90)	2-CHLOROTOLUENE	15.766	126	767010	11.3232	PPBV		99
91)	n-PROPYLBENZENE	15.809	120	793940	12.1083	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2873727	12.8454	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2364619	11.3690	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1214522	11.8520	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	529036	12.5282	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2518685	12.9767	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1900758	12.8109	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	2352253	13.1542	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1890803	11.8524	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	651887	12.1872	PPBV		98
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2595477	12.6449	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	801855	13.2251	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1781932	11.9726	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	733212	12.3476	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	1190740	11.6336	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1877270	13.5695	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1809449	13.1201	PPBV		100
108)	NAPHTHALENE	18.660	128	4030657	13.4094	PPBV		100
110)	TVHC as equiv Pentane	5.066	TIC	2846840	9.8225	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

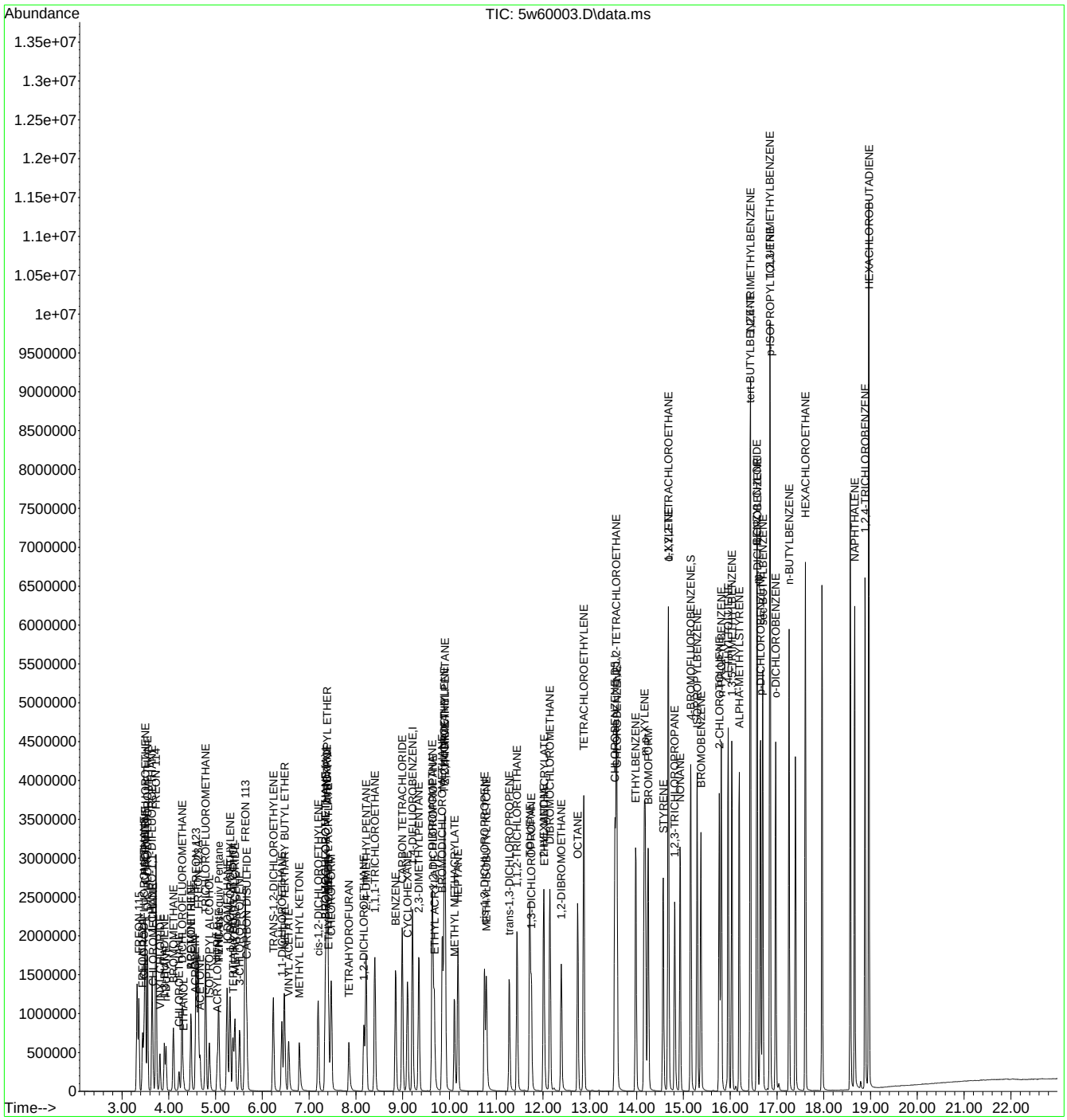
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60034.D
Acq On : 25 Nov 2025 12:07 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	484085	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2150988	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1139142	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	484085	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1404001	9.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	362498	10.9297	PPBV	99
3) FREON 152A	3.451	65	344307	9.5902	PPBV	95
4) CHLORODIFLUOROMETHANE	3.482	67	169484	11.2855	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.512	116	864260	11.4930	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.555	85	1643074	11.8602	PPBV	99
7) PROPYLENE	3.506	41	347766	9.3592	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1203259	10.7247	PPBV	97
9) FREON 114	3.739	85	1537721	12.1420	PPBV	100
10) CHLOROMETHANE	3.671	52	139880	9.1940	PPBV	94
11) VINYL CHLORIDE	3.824	62	485976	10.3626	PPBV	99
12) 1,3-BUTADIENE	3.916	54	279018	9.8828	PPBV	97
13) n-BUTANE	3.953	43	430330	9.3273	PPBV	97
14) BROMOMETHANE	4.112	94	555231	11.1325	PPBV	100
15) CHLOROETHANE	4.228	64	225243	9.8449	PPBV	97
16) DICHLOROFLUOROMETHANE	4.295	67	1096640	11.0036	PPBV	98
17) ACETONITRILE	4.485	41	237947	9.0279	PPBV	100
18) ACROLEIN	4.577	56	151817	10.1363	PPBV	97
19) FREON 123	4.595	83	1282769	11.1259	PPBV #	71
20) FREON 123A	4.638	117	774782	11.7004	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.797	101	1517876	12.8270	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	898541	9.4657	PPBV	97
23) ACETONE	4.681	58	192579	10.1432	PPBV	88
24) PENTANE	5.078	42	448268	9.0894	PPBV	98
25) IODOMETHANE	5.256	142	1731553	11.7398	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	535189	10.3080	PPBV	95
27) CARBON DISULFIDE	5.678	76	1517752	11.1564	PPBV	97
28) ETHANOL	4.326	45	166716	10.4829	PPBV	100
29) BROMOETHENE	4.485	106	561569	11.4167	PPBV	100
30) ACRYLONITRILE	5.048	52	321264	9.9985	PPBV	100
31) METHYLENE CHLORIDE	5.427	84	481494	9.9127	PPBV	92
32) 3-CHLOROPROPENE	5.525	76	238315	10.1921	PPBV	85
33) FREON 113	5.641	151	994431	11.5109	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	556079	10.2150	PPBV	95
35) TERTIARY BUTYL ALCOHOL	5.378	59	982110	10.1178	PPBV	98
36) METHYL TERTIARY BUTYL ...	6.479	73	1423871	10.3918	PPBV	97
37) TETRAHYDROFURAN	7.856	72	218090	11.6036	PPBV	89
38) HEXANE	7.385	57	792935	10.2599	PPBV	97
39) VINYL ACETATE	6.571	86	93101	11.9113	PPBV #	68
40) 1,1-DICHLOROETHANE	6.424	63	998936	10.0003	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	233701	12.4986	PPBV #	81
42) cis-1,2-DICHLOROETHYLENE	7.201	96	585203	9.8630	PPBV	96
43) DIISOPROPYL ETHER	7.391	59	248916	12.2491	PPBV #	91
44) ETHYL ACETATE	7.421	61	181811	12.7249	PPBV #	1
45) METHYL ACRYLATE	7.409	55	991497	12.9538	PPBV	99
46) CHLOROFORM	7.477	83	1225259	11.3836	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	901149	10.3025	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1261731	11.2389	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60034.D
Acq On : 25 Nov 2025 12:07 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1381040	11.3260	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	807613	10.7983	PPBV		100
52)	BENZENE	8.853	78	1600693	11.1078	PPBV		99
53)	CYCLOHEXANE	9.110	84	641053	11.1350	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.349	71	318963	10.9640	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	819199	11.1595	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	638796	9.5482	PPBV		100
57)	DIBROMOMETHANE	9.630	174	887578	10.8171	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	1180705	11.2927	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1417887	11.1394	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2469033	10.8270	PPBV		99
61)	1,4-DIOXANE	9.899	88	365323	11.1138	PPBV		95
62)	HEPTANE	10.187	43	782534	9.4375	PPBV		95
63)	METHYL METHACRYLATE	10.107	69	531850	11.3243	PPBV		90
64)	METHYL ISOBUTYL KETONE	10.792	58	496088	11.6687	PPBV		94
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1056435	10.3069	PPBV		94
66)	TOLUENE	11.716	92	1165171	10.8171	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	951822	10.8407	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	949179	9.8100	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	662905	11.3340	PPBV		99
71)	2-HEXANONE	12.010	58	720507	12.0921	PPBV		95
72)	ETHYL METHACRYLATE	12.022	69	960007	12.1986	PPBV		94
73)	TETRACHLOROETHYLENE	12.872	164	970774	12.4930	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.150	129	1596891	11.9018	PPBV		99
75)	1,2-DIBROMOETHANE	12.389	107	1315184	12.5987	PPBV		100
76)	OCTANE	12.738	43	1110659	10.2642	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1033100	12.0927	PPBV		98
78)	CHLOROBENZENE	13.582	112	1693185	11.8951	PPBV		100
79)	ETHYLBENZENE	13.980	91	2607059	11.9397	PPBV		100
80)	m,p-XYLENE	14.169	106	1992673	23.1575	PPBV		98
81)	o-XYLENE	14.677	106	1005896	12.4841	PPBV		100
82)	STYRENE	14.567	104	1573596	12.5132	PPBV		99
83)	NONANE	14.928	43	1184405	10.8211	PPBV		96
84)	BROMOFORM	14.249	173	1701357	12.8550	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1790494	12.7784	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1210708	10.7464	PPBV		98
88)	ISOPROPYLBENZENE	15.295	105	2869874	11.6323	PPBV		100
89)	BROMOBENZENE	15.374	77	1418962	11.0548	PPBV		99
90)	2-CHLOROTOLUENE	15.766	126	769093	11.2555	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	802179	12.1279	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2923947	12.9567	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2462273	11.7359	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1230649	11.9053	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	531958	12.4882	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2529368	12.9188	PPBV		99
97)	m-DICHLOROBENZENE	16.574	146	1906654	12.7393	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2432056	13.4826	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	1908604	11.8603	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	662519	12.2786	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2652149	12.8090	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	811157	13.2626	PPBV		100
103)	o-DICHLOROBENZENE	16.971	146	1825433	12.1586	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	751238	12.5415	PPBV		97
105)	HEXACHLOROETHANE	17.607	117	1250593	12.1125	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1868816	13.3913	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1865860	13.4118	PPBV		100
108)	NAPHTHALENE	18.660	128	4170256	13.7536	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	3005367	10.2667	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60034.D
Acq On : 25 Nov 2025 12:07 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

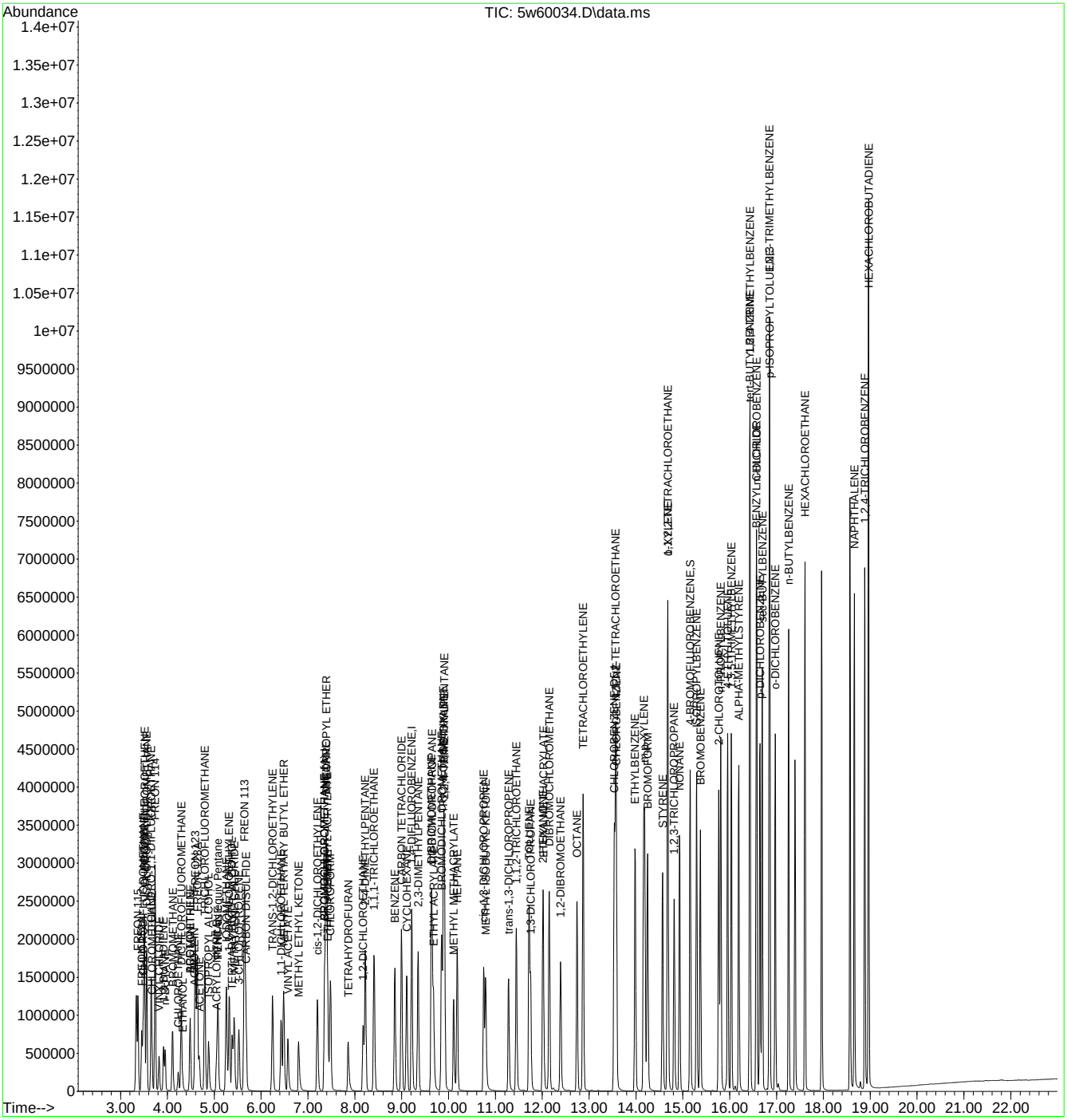
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60034.D
Acq On : 25 Nov 2025 12:07 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60035.D
Acq On : 25 Nov 2025 12:44 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:24:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	491831	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2169558	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1169223	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	491831	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1451603	9.94	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.40%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	386614	11.4732	PPBV	100
3) FREON 152A	3.439	65	339841	9.3167	PPBV	94
4) CHLORODIFLUOROMETHANE	3.475	67	168374	11.0350	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.500	116	868726	11.3705	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.549	85	1620008	11.5096	PPBV	99
7) PROPYLENE	3.494	41	351302	9.3054	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1226272	10.7577	PPBV	97
9) FREON 114	3.726	85	1576213	12.2499	PPBV	100
10) CHLOROMETHANE	3.659	52	150386	9.7288	PPBV	97
11) VINYL CHLORIDE	3.812	62	516635	10.8428	PPBV	100
12) 1,3-BUTADIENE	3.910	54	299098	10.4271	PPBV	96
13) n-BUTANE	3.940	43	464929	9.9185	PPBV	98
14) BROMOMETHANE	4.099	94	572206	11.2922	PPBV	100
15) CHLOROETHANE	4.222	64	222233	9.5603	PPBV	98
16) DICHLOROFLUOROMETHANE	4.283	67	1108920	10.9516	PPBV	99
17) ACETONITRILE	4.473	41	253669	9.4729	PPBV	100
18) ACROLEIN	4.564	56	161532	10.6151	PPBV	96
19) FREON 123	4.589	83	1330387	11.3572	PPBV	71
20) FREON 123A	4.626	117	794768	11.8132	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.791	101	1516778	12.6158	PPBV	100
22) ISOPROPYL ALCOHOL	4.864	45	906498	9.3991	PPBV	97
23) ACETONE	4.668	58	199702	10.3527	PPBV	89
24) PENTANE	5.066	42	448077	8.9424	PPBV	99
25) IODOMETHANE	5.250	142	1749749	11.6764	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.311	96	548399	10.3961	PPBV	94
27) CARBON DISULFIDE	5.666	76	1503869	10.8803	PPBV	97
28) ETHANOL	4.314	45	171715	10.6272	PPBV	99
29) BROMOETHENE	4.479	106	582791	11.6616	PPBV	100
30) ACRYLONITRILE	5.035	52	322974	9.8934	PPBV	99
31) METHYLENE CHLORIDE	5.415	84	479947	9.7252	PPBV	91
32) 3-CHLOROPROPENE	5.519	76	234972	9.8909	PPBV	85
33) FREON 113	5.635	151	992723	11.3102	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.235	96	573616	10.3712	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.366	59	997645	10.1160	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.467	73	1430696	10.2771	PPBV	97
37) TETRAHYDROFURAN	7.850	72	221651	11.6073	PPBV	89
38) HEXANE	7.379	57	790670	10.0695	PPBV	97
39) VINYL ACETATE	6.559	86	91214	11.4861	PPBV #	69
40) 1,1-DICHLOROETHANE	6.418	63	993867	9.7928	PPBV	100
41) METHYL ETHYL KETONE	6.785	72	230800	12.1490	PPBV #	88
42) cis-1,2-DICHLOROETHYLENE	7.195	96	597799	9.9166	PPBV	94
43) DIISOPROPYL ETHER	7.385	59	247919	12.0079	PPBV	92
44) ETHYL ACETATE	7.409	61	182217	12.5524	PPBV #	1
45) METHYL ACRYLATE	7.397	55	981019	12.6151	PPBV	98
46) CHLOROFORM	7.470	83	1236471	11.3068	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.217	57	914159	10.2866	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1275540	11.1830	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60035.D
Acq On : 25 Nov 2025 12:44 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:24:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1390482	11.2238	PPBV		100
50)	1,2-DICHLOROETHANE	8.168	62	827529	10.8903	PPBV		100
52)	BENZENE	8.847	78	1611956	11.0902	PPBV		98
53)	CYCLOHEXANE	9.104	84	641181	11.0419	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.348	71	316741	10.7945	PPBV		95
55)	TRICHLOROETHYLENE	9.887	95	825347	11.1471	PPBV		100
56)	1,2-DICHLOROPROPANE	9.648	63	638175	9.4572	PPBV		100
57)	DIBROMOMETHANE	9.630	174	897455	10.8439	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	1191314	11.2967	PPBV		99
59)	BROMODICHLOROMETHANE	9.844	83	1432495	11.1578	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.905	57	2470105	10.7390	PPBV		99
61)	1,4-DIOXANE	9.893	88	368012	11.0998	PPBV	#	72
62)	HEPTANE	10.180	43	790578	9.4529	PPBV		95
63)	METHYL METHACRYLATE	10.107	69	534295	11.2790	PPBV		91
64)	METHYL ISOBUTYL KETONE	10.786	58	501182	11.6876	PPBV		94
65)	cis-1,3-DICHLOROPROPENE	10.749	75	1067971	10.3302	PPBV		93
66)	TOLUENE	11.716	92	1202812	11.0710	PPBV		100
67)	1,3-DICHLOROPROPANE	11.747	76	963306	10.8776	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	968944	9.9286	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.441	83	678703	11.5048	PPBV		100
71)	2-HEXANONE	12.010	58	727210	11.8906	PPBV		95
72)	ETHYL METHACRYLATE	12.022	69	966272	11.9623	PPBV		94
73)	TETRACHLOROETHYLENE	12.872	164	953780	11.9585	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.144	129	1629056	11.8292	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1325344	12.3694	PPBV		100
76)	OCTANE	12.738	43	1116257	10.0505	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1056900	12.0530	PPBV		99
78)	CHLOROBENZENE	13.582	112	1720042	11.7729	PPBV		100
79)	ETHYLBENZENE	13.980	91	2650060	11.8244	PPBV		100
80)	m,p-XYLENE	14.181	106	2074669	23.4901	PPBV		99
81)	o-XYLENE	14.677	106	996166	12.0453	PPBV		100
82)	STYRENE	14.567	104	1575002	12.2022	PPBV		99
83)	NONANE	14.928	43	1179586	10.4998	PPBV		96
84)	BROMOFORM	14.249	173	1764343	12.9879	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1779989	12.3766	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1184288	10.2414	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2963085	11.7011	PPBV		100
89)	BROMOBENZENE	15.374	77	1446870	10.9823	PPBV		98
90)	2-CHLOROTOLUENE	15.766	126	780779	11.1326	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	816312	12.0241	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2929241	12.6462	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2478011	11.5071	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1273837	12.0060	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	570806	13.0554	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2672336	13.2978	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1976541	12.8665	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2490736	13.4527	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1966810	11.9076	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	682755	12.3281	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2669643	12.5618	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	820710	13.0736	PPBV		100
103)	o-DICHLOROBENZENE	16.971	146	1848062	11.9927	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	755851	12.2939	PPBV		97
105)	HEXACHLOROETHANE	17.607	117	1278112	12.0605	PPBV		100
106)	HEXACHLOROBUTADIENE	18.965	225	1912814	13.3540	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1842979	12.9066	PPBV		100
108)	NAPHTHALENE	18.660	128	4122703	13.2469	PPBV		100
110)	TVHC as equiv Pentane	5.066	TIC	3065036	10.3056	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60035.D
Acq On : 25 Nov 2025 12:44 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:24:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

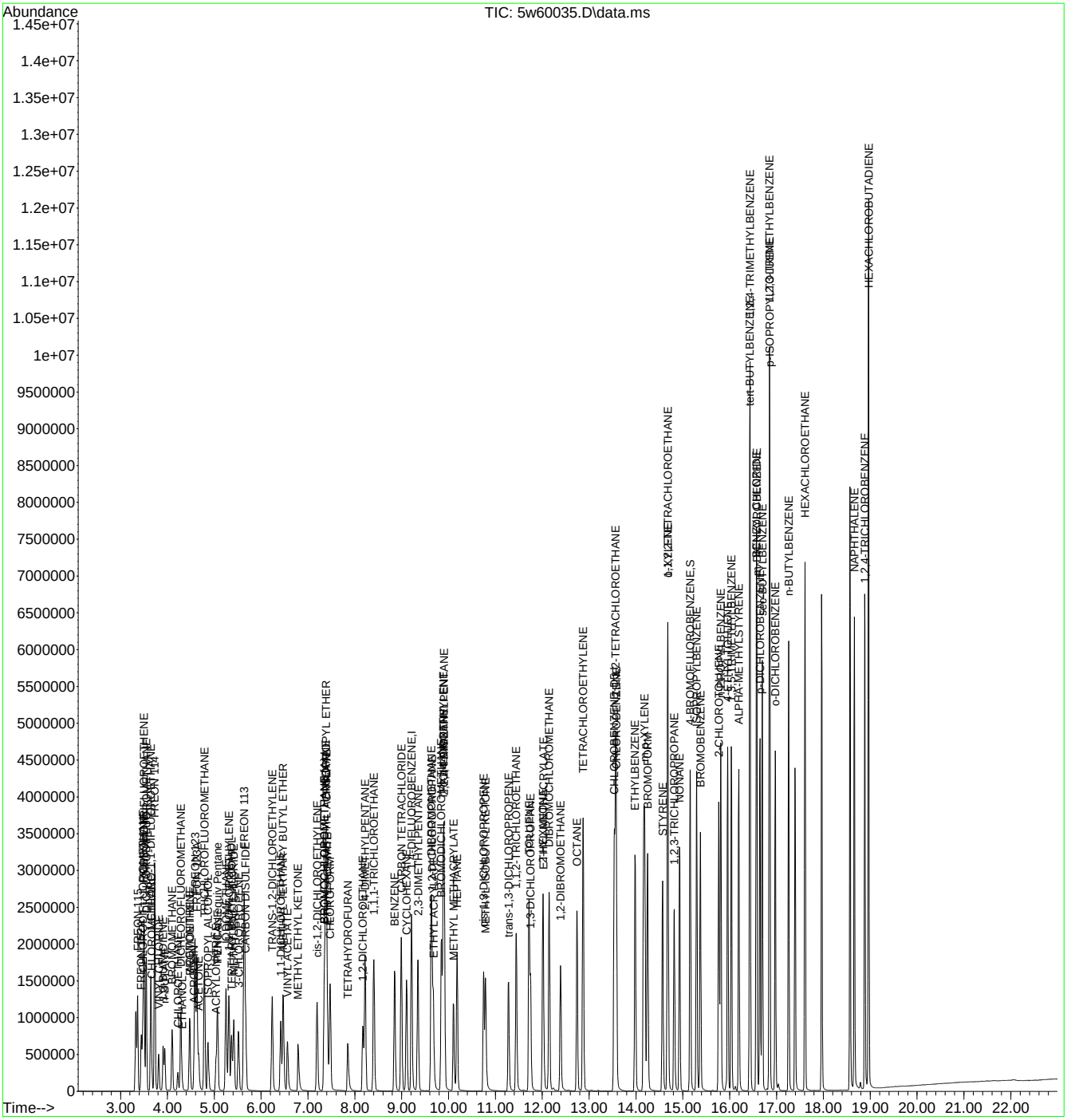
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60035.D
Acq On : 25 Nov 2025 12:44 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:24:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	117537	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	576557	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	537853	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	117431	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	424524	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	166464	11.6748	PPBV		98
3) FREON 152A	1.605	65	78132	10.6216	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	34082	10.6722	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	177991	11.5833	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	301836m	10.7228	PPBV		
7) PROPYLENE	1.627	41	94847	9.9623	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	251622	10.0470	PPBV		99
9) FREON 114	1.717	85	293840	10.1272	PPBV		98
10) CHLOROMETHANE	1.689	52	33784	8.3689	PPBV		98
11) VINYL CHLORIDE	1.746	62	120764m	8.4483	PPBV		
12) 1,3-BUTADIENE	1.785	54	95122	8.4248	PPBV		99
13) N-BUTANE	1.801	43	167061	8.7444	PPBV		99
14) BROMOMETHANE	1.859	94	106278	9.5883	PPBV		100
15) CHLOROETHANE	1.907	64	66166	8.5278	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	249903	9.3010	PPBV		100
17) ACETONITRILE	1.997	41	94569	7.0834	PPBV		100
18) ACROLEIN	2.036	56	54010	8.5161	PPBV		99
19) FREON 123	2.049	83	274608	10.1439	PPBV		99
20) FREON 123A	2.068	117	172350	10.7466	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	314396	10.2837	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	232486	8.9738	PPBV		96
23) ACETONE	2.074	58	62370	8.8053	PPBV		96
24) PENTANE	2.242	42	120801	8.6097	PPBV		97
25) IODOMETHANE	2.303	142	308750	10.9767	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	116988	10.0387	PPBV		91
27) CARBON DISULFIDE	2.467	76	301097	9.1059	PPBV		98
28) ETHANOL	1.933	45	60214	8.7304	PPBV		99
29) BROMOETHENE	2.007	106	110839	9.9603	PPBV		100
30) ACRYLONITRILE	2.213	52	91814	9.2178	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	103212	9.0347	PPBV		89
32) 3-CHLOROPROPENE	2.409	76	54741	8.7819	PPBV		93
33) FREON 113	2.463	151	196110	11.1721	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	113209	8.8294	PPBV		92
35) TERTIARY BUTYL ALCOHOL	2.341	59	232200	7.1738	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.795	73	349229	9.5751	PPBV		99
37) TETRAHYDROFURAN	3.470	72	56702	9.5859	PPBV		93
38) HEXANE	3.242	57	233347	9.4984	PPBV		99
39) VINYL ACETATE	2.830	86	34231	9.7646	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	234708	9.4691	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	64142	9.5684	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	134876	10.1412	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	65603	9.4186	PPBV		95
44) ETHYL ACETATE	3.251	61	45389	9.6391	PPBV		99
45) METHYL ACRYLATE	3.238	55	284596	9.5736	PPBV	#	100
46) CHLOROFORM	3.264	83	265353	10.3437	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	270843	9.8502	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279613	10.3419	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	300115	10.7149	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.663	62	187132	9.3837	PPBV		98
51) BENZENE	4.129	78	385720	9.8016	PPBV		98
53) CYCLOHEXANE	4.335	84	174716	10.3579	PPBV		97
54) 2,3-DIMETHYLPENTANE	4.586	71	88179	10.4827	PPBV		97
55) TRICHLOROETHENE	5.016	95	179264	9.9695	PPBV		98
56) 1,2-DICHLOROPROPANE	4.785	63	156598	9.8534	PPBV		98
57) DIBROMOMETHANE	4.746	174	193825	12.6496	PPBV		82
58) ETHYL ACRYLATE	4.901	55	350540	9.8543	PPBV		99
59) BROMODICHLOROMETHANE	4.962	83	297958	10.2561	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.106	57	729930	9.3764	PPBV		100
61) 1,4-DIOXANE	5.029	88	88045	10.3442	PPBV		96
62) HEPTANE	5.418	43	246005	9.5707	PPBV		98
63) METHYL METHACRYLATE	5.319	69	143934	9.9651	PPBV		94
64) METHYL ISOBUTYL KETONE	6.042	58	136749	8.8717	PPBV		98
65) CIS-1,3-DICHLOROPROPENE	5.939	75	247041	10.1375	PPBV		96
66) TOLUENE	7.132	91	482354	10.5364	PPBV		99
67) 1,3-DICHLOROPROPANE	7.190	76	245416	10.6929	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	6.608	75	214544	9.7443	PPBV		96
69) 1,1,2-TRICHLOROETHANE	6.766	83	140276	10.7531	PPBV		97
70) 2-HEXANONE	7.695	58	183274	8.5213	PPBV		98
71) ETHYL METHACRYLATE	7.833	69	246125	10.2154	PPBV		95
72) TETRACHLOROETHENE	8.849	164	215940	12.9316	PPBV		87
73) DIBROMOCHLOROMETHANE	7.659	129	310840	11.7252	PPBV		99
74) 1,2-DIBROMOETHANE	8.000	107	266221	11.2805	PPBV	#	99
75) OCTANE	8.997	43	341515	9.9187	PPBV		98
77) 1,1,1,2-TETRACHLOROETHANE	10.058	131	213785	11.0766	PPBV		98
78) CHLOROBENZENE	10.045	112	396327	10.7864	PPBV		99
79) ETHYLBENZENE	10.926	91	655869	10.8932	PPBV		100
80) M,P-XYLENE	11.351	91	1023644	20.9873	PPBV		97
81) O-XYLENE	12.280	91	519895	10.9823	PPBV		99
82) STYRENE	12.068	104	395063	11.1318	PPBV		100
83) NONANE	13.399	43	360332	9.7785	PPBV		98
84) BROMOFORM	11.161	173	350108	15.4204	PPBV		97
85) 1,1,2,2-TETRACHLOROETHANE	12.296	83	367207	10.8288	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	12.576	75	288503	10.8553	PPBV		100
88) ISOPROPYLBENZENE	13.791	120	195144	10.8441	PPBV		98
89) BROMOBENZENE	13.656	77	359353	10.3975	PPBV		87
90) 2-CHLOROTOLUENE	14.788	126	178666	10.6452	PPBV		100
91) N-PROPYLBENZENE	15.129	120	203706	10.6654	PPBV		100
92) 4-ETHYLTOLUENE	15.569	105	763752	10.8053	PPBV		98
93) 1,3,5-TRIMETHYLBENZENE	15.846	105	637092	10.8300	PPBV		99
94) ALPHA-METHYLSTYRENE	16.170	118	310988	10.6596	PPBV		99
95) TERT-BUTYLBENZENE	16.498	134	146662	10.2257	PPBV		90
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	648383	11.1180	PPBV		100
97) BENZYL CHLORIDE	16.598	91	467740	9.9277	PPBV		99
98) M-DICHLOROBENZENE	16.569	146	423012	10.5575	PPBV		97
99) P-DICHLOROBENZENE	16.662	146	425526	10.7779	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	395575	10.6431	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	177791	10.4101	PPBV		91
102) 1,2,3-TRIMETHYLBENZENE	16.936	105	621853	10.6368	PPBV		100
103) P-ISOPROPYLTOLUENE	17.013	134	195199	10.2831	PPBV		88
104) N-BUTYLBENZENE	17.379	134	192735	10.6499	PPBV		93
105) HEXACHLOROETHANE	17.559	117	257445	11.5470	PPBV	#	84
106) HEXACHLOROBUTADIENE	18.630	225	500479	18.9339	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.315	180	517111	16.3117	PPBV		97
108) NAPHTHALENE	18.363	128	993777	13.9741	PPBV		99
110) TVHC as equiv Pentane	2.242	TIC	579819	8.7479	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

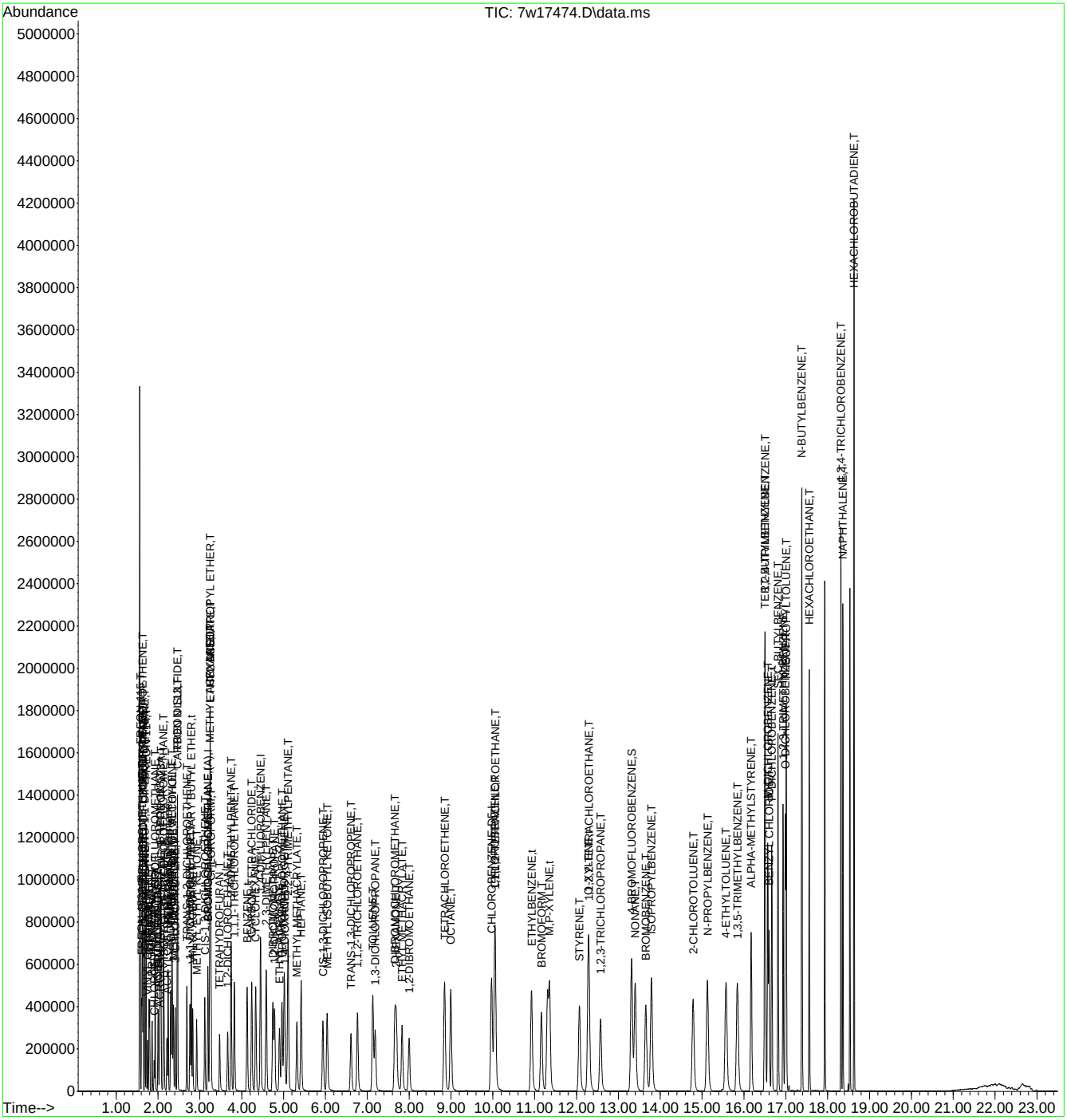
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

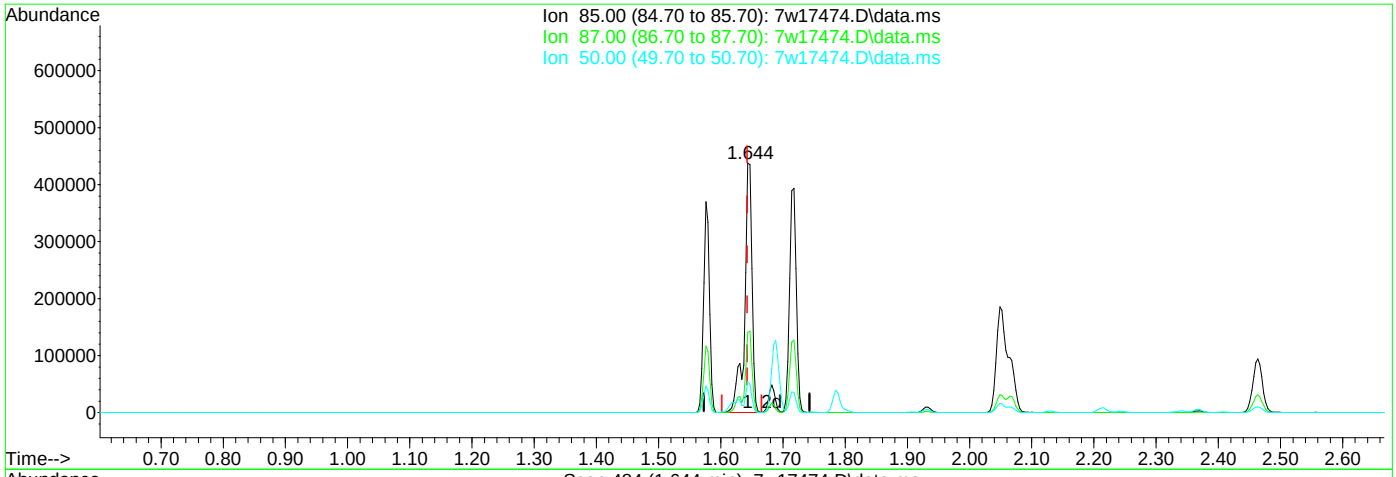
Sample Number: V7W613-BS
Lab FileID: 7W17474.D
Injection Time: 09/26/25 11:54
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

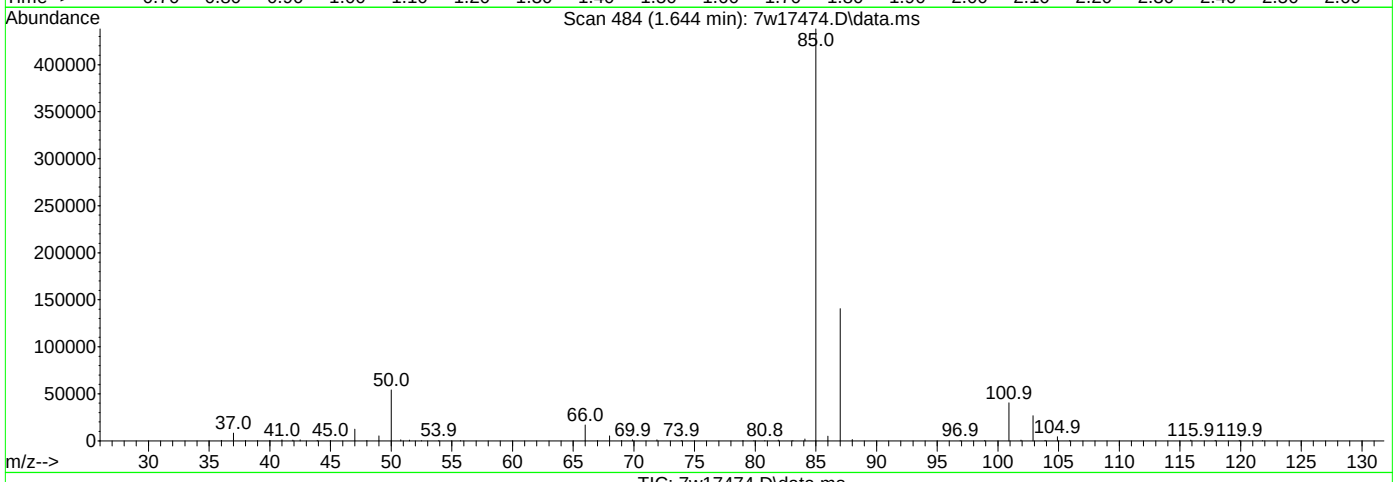
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.85PPBV

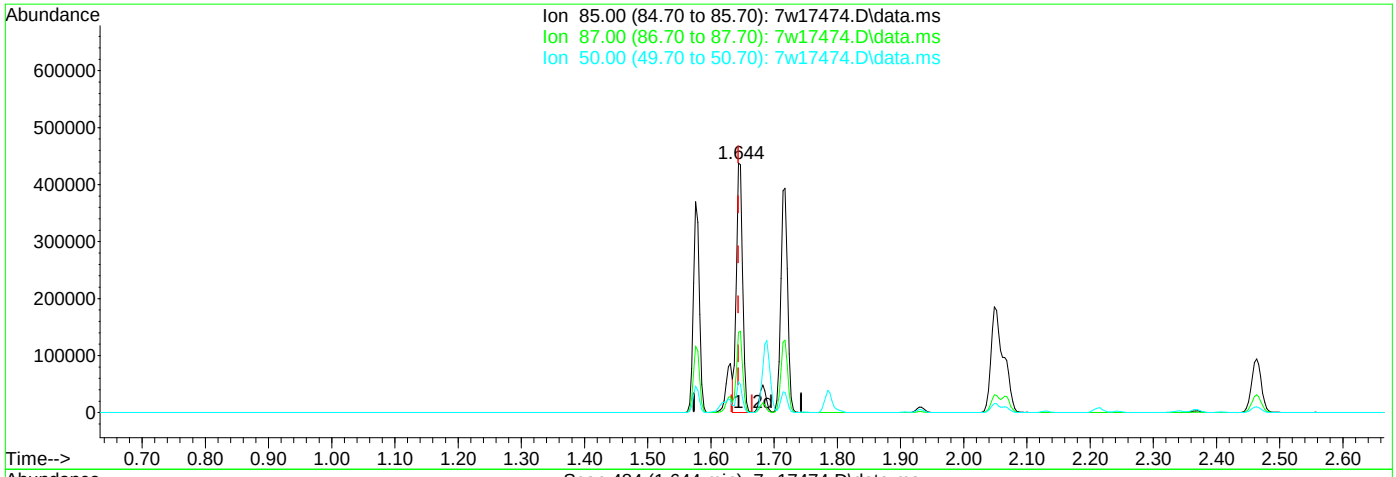
response 361845

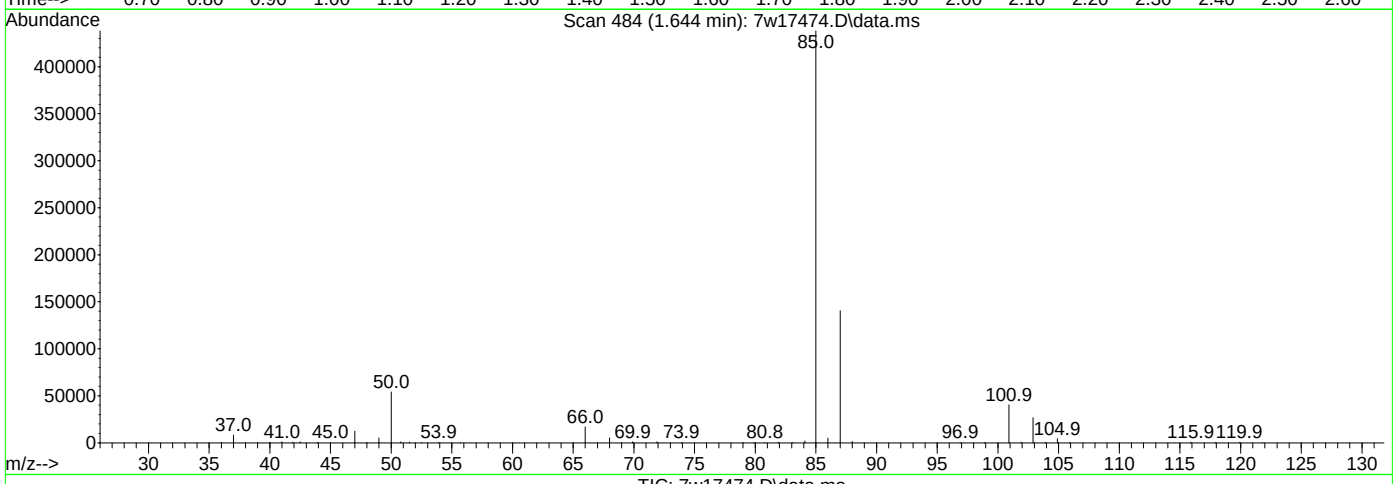
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.38
50.00	19.30	17.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.72PPBV m

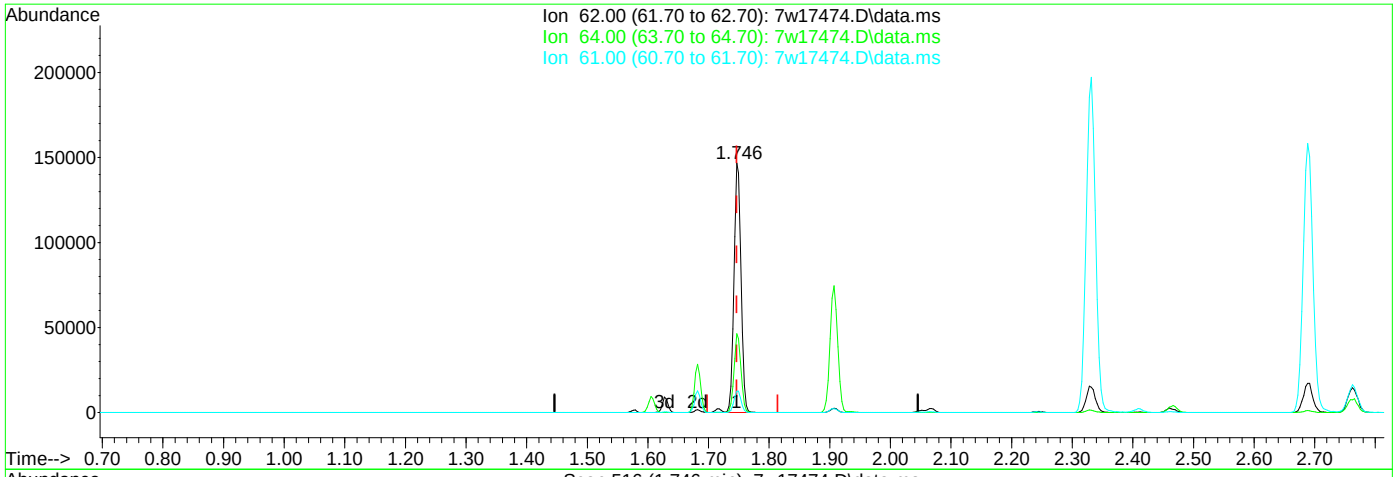
response 301836

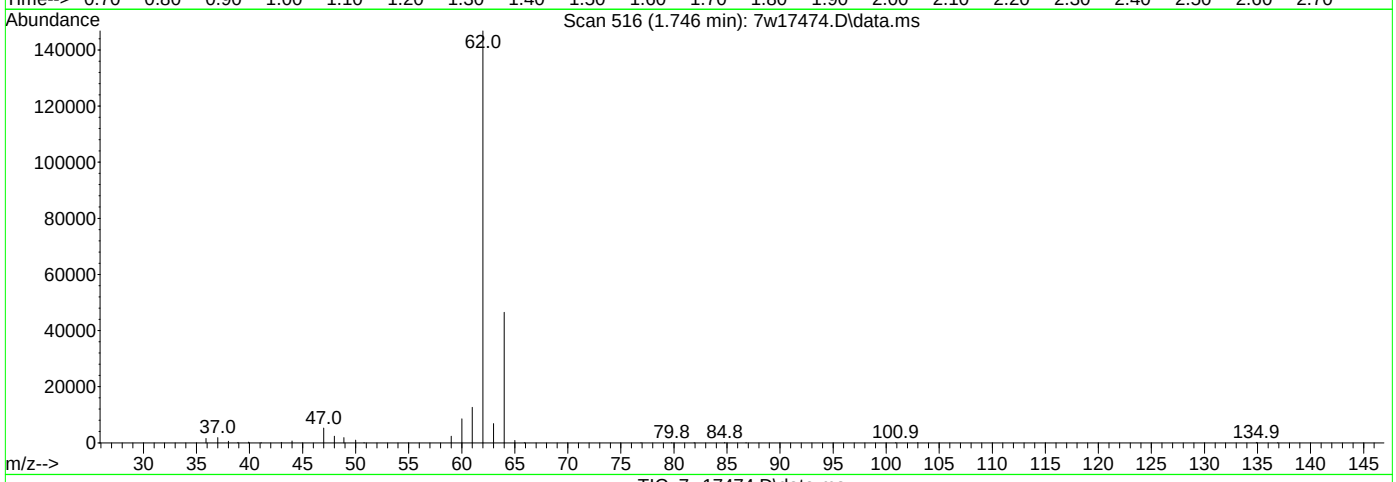
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.81
50.00	19.30	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.57PPBV

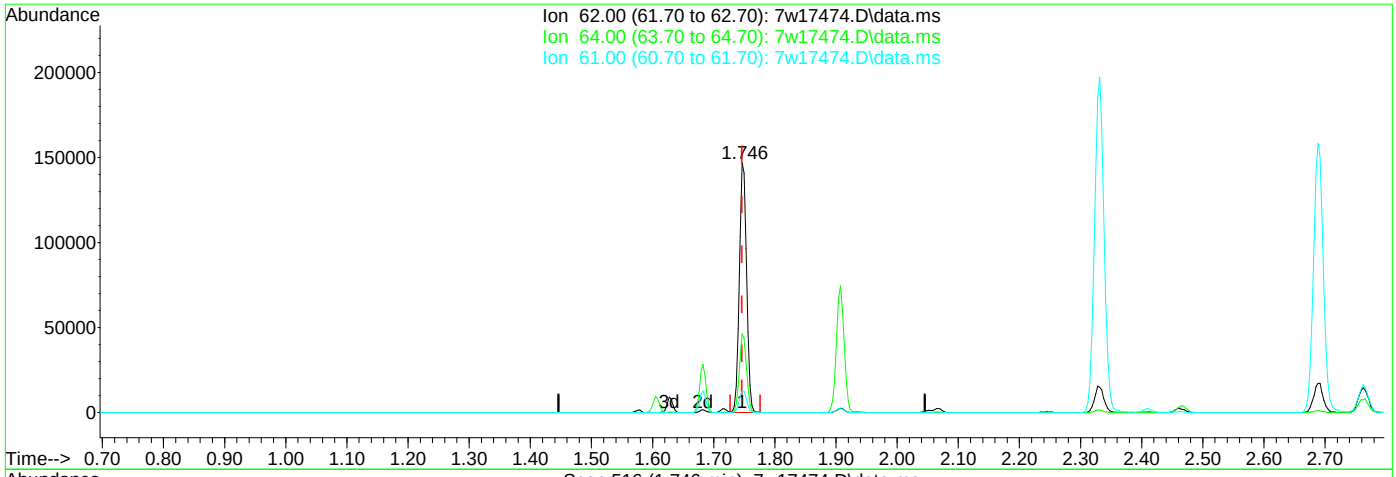
response 122511

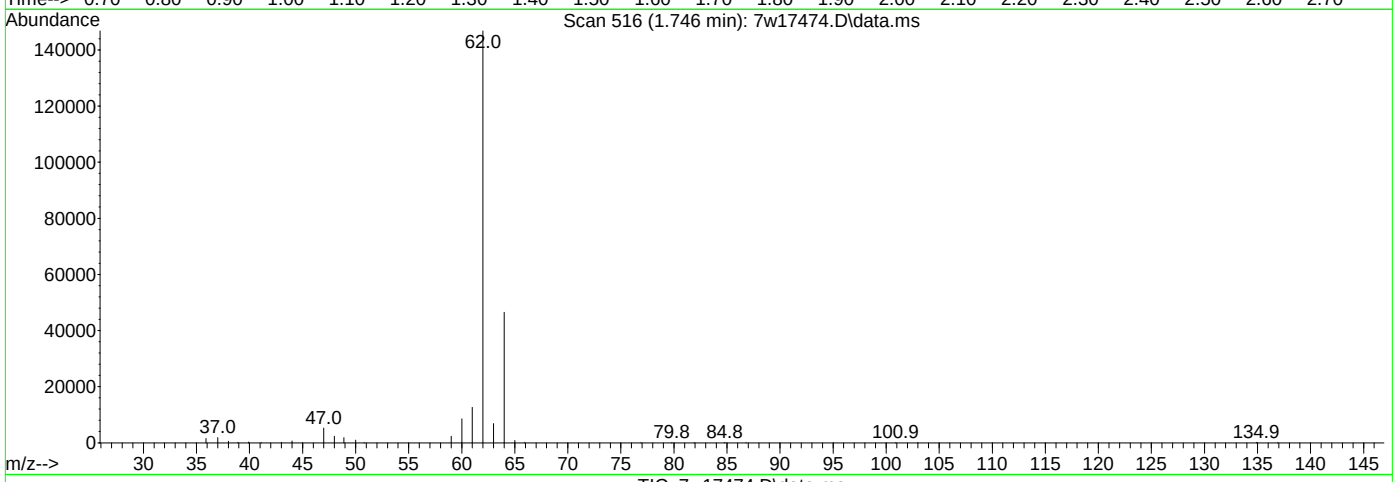
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	30.89
61.00	8.10	8.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.45PPBV m

response 120764

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.33
61.00	8.10	9.03
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.194	128	119187	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	585415	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	537645	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.194	128	119187	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	430611	9.95	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	161488	11.1690	PPBV		98
3) FREON 152A	1.605	65	75759	10.1564	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	33425	10.3216	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.628	116	174440	11.1950	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	291674m	10.2183	PPBV		
7) PROPYLENE	1.628	41	92093	9.5391	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.683	65	249388	9.8200	PPBV		98
9) FREON 114	1.715	85	289184	9.8288	PPBV		99
10) CHLOROMETHANE	1.686	52	33293	8.1331	PPBV		96
11) VINYL CHLORIDE	1.747	62	119109m	8.2172	PPBV		
12) 1,3-BUTADIENE	1.785	54	92631	8.0906	PPBV		97
13) N-BUTANE	1.801	43	164144	8.4728	PPBV		99
14) BROMOMETHANE	1.859	94	104635	9.3094	PPBV		100
15) CHLOROETHANE	1.908	64	65277	8.2967	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.930	67	246489	9.0469	PPBV		100
17) ACETONITRILE	1.998	41	92543	6.8357	PPBV		99
18) ACROLEIN	2.036	56	52535	8.1689	PPBV		96
19) FREON 123	2.049	83	272708	9.9342	PPBV		99
20) FREON 123A	2.065	117	170374	10.4763	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	311447	10.0462	PPBV		100
22) ISOPROPYL ALCOHOL	2.146	45	230027	8.7560	PPBV		97
23) ACETONE	2.075	58	61137	8.5117	PPBV		92
24) PENTANE	2.242	42	118430	8.3239	PPBV		97
25) IODOMETHANE	2.303	142	303085	10.6261	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	115657	9.7871	PPBV		90
27) CARBON DISULFIDE	2.467	76	301432m	8.9898	PPBV		
28) ETHANOL	1.933	45	59051	8.4432	PPBV		99
29) BROMOETHENE	2.007	106	109124	9.6704	PPBV		100
30) ACRYLONITRILE	2.213	52	91360	9.0453	PPBV		97
31) METHYLENE CHLORIDE	2.367	84	102065	8.8106	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	54180	8.5716	PPBV		94
33) FREON 113	2.464	151	195458	10.9808	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	111522	8.5775	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.342	59	233489	7.1138	PPBV		92
36) METHYL TERTIARY BUTYL ...	2.795	73	345519	9.3422	PPBV		99
37) TETRAHYDROFURAN	3.473	72	55023	9.1733	PPBV		95
38) HEXANE	3.242	57	229499	9.2124	PPBV		98
39) VINYL ACETATE	2.830	86	34282	9.6437	PPBV		86
40) 1,1-DICHLOROETHANE	2.763	63	229340	9.1245	PPBV		99
41) METHYL ETHYL KETONE	2.924	72	63545	9.3481	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.117	96	132692	9.8389	PPBV		95
43) DIISOPROPYL ETHER	3.248	59	63868	9.0426	PPBV		99
44) ETHYL ACETATE	3.248	61	45705	9.5719	PPBV		94
45) METHYL ACRYLATE	3.239	55	278453	9.2373	PPBV	#	100
46) CHLOROFORM	3.264	83	261849	10.0658	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.747	57	269368	9.6609	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	276376	10.0807	PPBV		97
49) CARBON TETRACHLORIDE	4.242	117	298654	10.5152	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	186432	9.2192	PPBV		98
51)	BENZENE	4.129	78	383912	9.6206	PPBV		97
53)	CYCLOHEXANE	4.335	84	173211	10.1133	PPBV		96
54)	2,3-DIMETHYLPENTANE	4.586	71	88496	10.3612	PPBV		94
55)	TRICHLOROETHENE	5.020	95	177169	9.7039	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	154800	9.5929	PPBV		99
57)	DIBROMOMETHANE	4.747	174	192245	12.3567	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	347251	9.6141	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	296513	10.0519	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.107	57	724228	9.1624	PPBV		100
61)	1,4-DIOXANE	5.026	88	86594	10.0198	PPBV		98
62)	HEPTANE	5.422	43	242237	9.2815	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	142858	9.7409	PPBV		93
64)	METHYL ISOBUTYL KETONE	6.039	58	138357	8.8402	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.940	75	245439	9.9193	PPBV		96
66)	TOLUENE	7.132	91	479641	10.3186	PPBV		99
67)	1,3-DICHLOROPROPANE	7.190	76	243826	10.4629	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	212620	9.5108	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.769	83	139676	10.5451	PPBV		99
70)	2-HEXANONE	7.695	58	183154	8.3868	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	244235	9.9836	PPBV		95
72)	TETRACHLOROETHENE	8.846	164	214993	12.6801	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	308974	11.4785	PPBV		99
74)	1,2-DIBROMOETHANE	8.001	107	264374	11.0327	PPBV	#	99
75)	OCTANE	8.997	43	340227	9.7318	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	213802	11.0818	PPBV		98
78)	CHLOROBENZENE	10.046	112	392719	10.6923	PPBV		99
79)	ETHYLBENZENE	10.923	91	651683	10.8278	PPBV		100
80)	M,P-XYLENE	11.351	91	1010310	20.7219	PPBV		100
81)	O-XYLENE	12.280	91	515533	10.8943	PPBV		99
82)	STYRENE	12.068	104	395209	11.1402	PPBV		100
83)	NONANE	13.402	43	357848	9.7149	PPBV		98
84)	BROMOFORM	11.158	173	342855	15.1068	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	361121	10.6535	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.576	75	285430	10.7439	PPBV	#	100
88)	ISOPROPYLBENZENE	13.788	120	191225	10.6304	PPBV		99
89)	BROMOBENZENE	13.653	77	356600	10.3218	PPBV		88
90)	2-CHLOROTOLUENE	14.785	126	177031	10.5518	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	202037	10.5821	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	756559	10.7077	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.843	105	633103	10.7664	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.171	118	305574	10.4780	PPBV		99
95)	TERT-BUTYLBENZENE	16.499	134	146423	10.2130	PPBV		91
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	646508	11.0901	PPBV		100
97)	BENZYL CHLORIDE	16.602	91	458275	9.7306	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	418818	10.4569	PPBV		97
99)	P-DICHLOROBENZENE	16.663	146	428379	10.8544	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	393831	10.6003	PPBV		97
101)	SEC-BUTYLBENZENE	16.814	134	177863	10.4183	PPBV		92
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	620374	10.6156	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.010	134	193374	10.1909	PPBV		89
104)	N-BUTYLBENZENE	17.380	134	191374	10.5788	PPBV		94
105)	HEXACHLOROETHANE	17.560	117	252934	11.3491	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.630	225	499473	18.9032	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.315	180	516000	16.2830	PPBV		97
108)	NAPHTHALENE	18.363	128	991089	13.9417	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	565634	8.4081	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

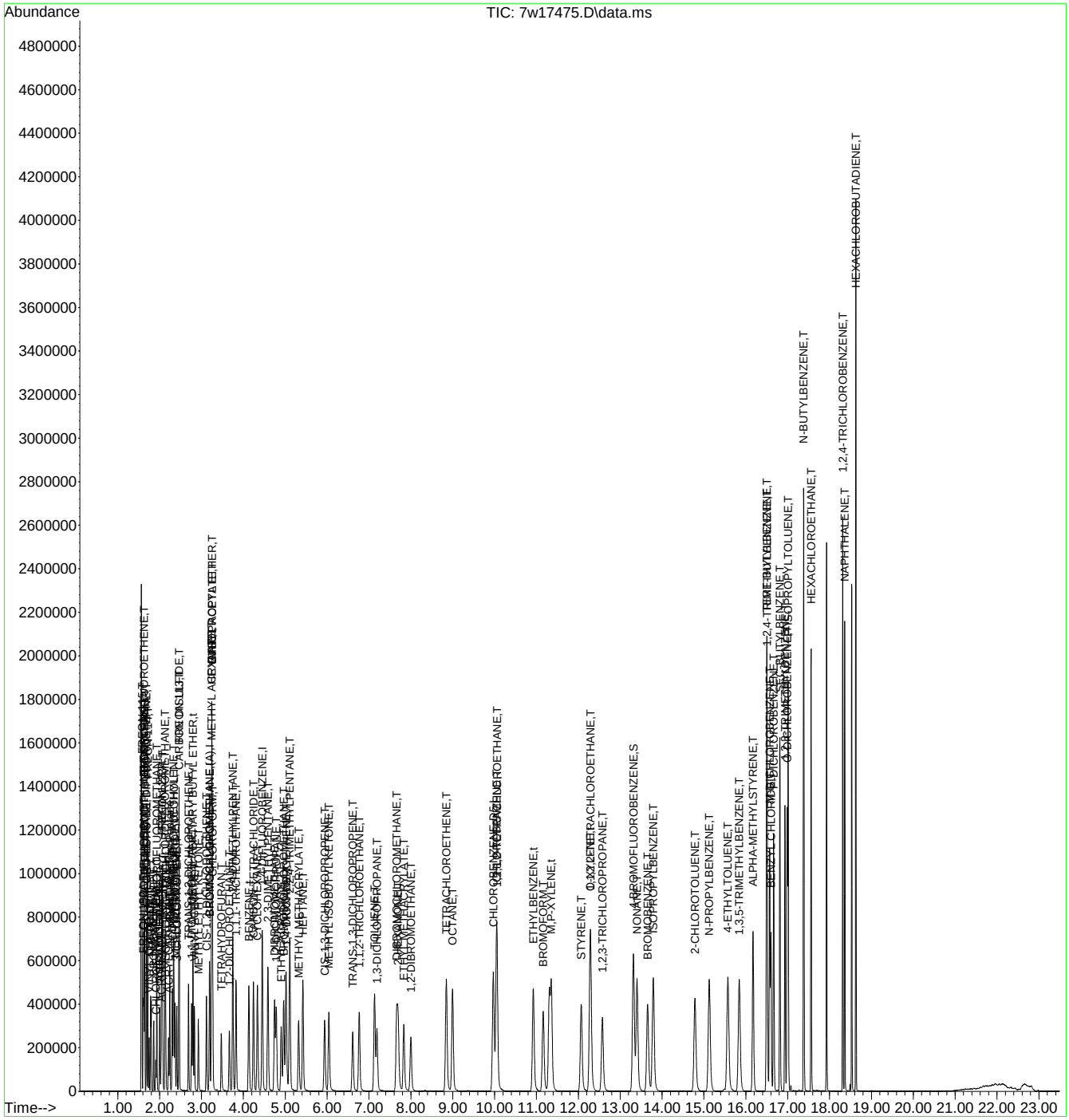
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

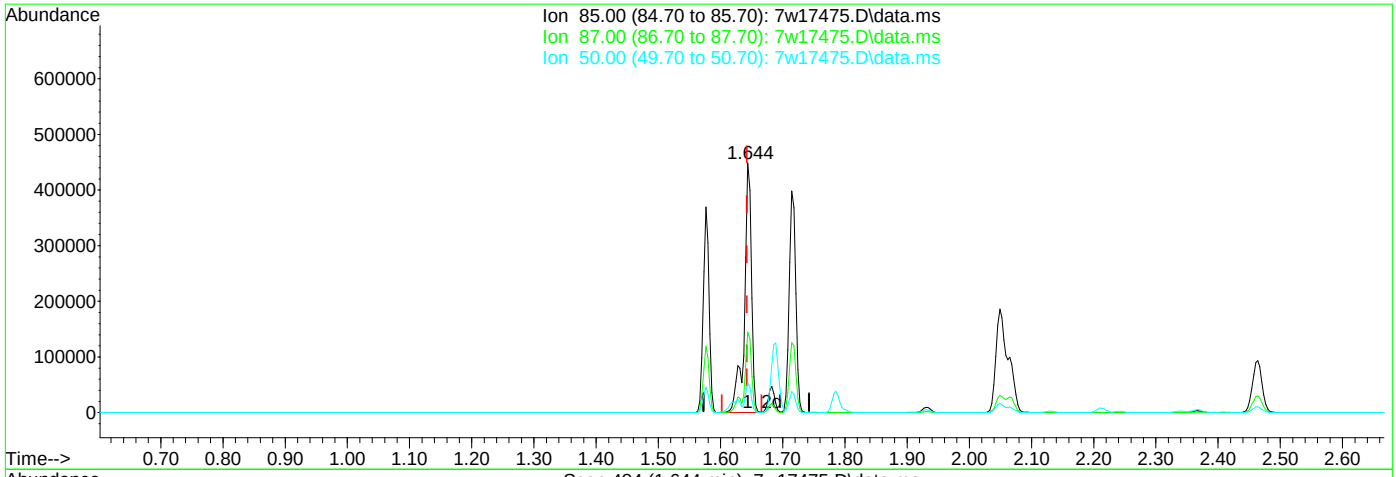
Sample Number: V7W613-BSD
Lab FileID: 7W17475.D
Injection Time: 09/26/25 12:32
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

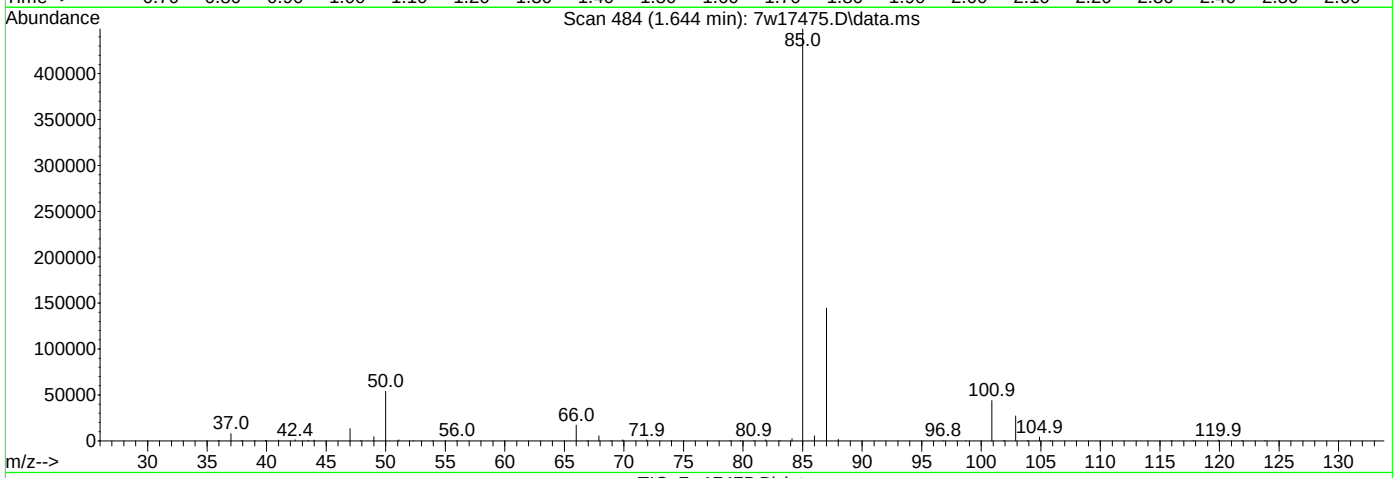
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak
Carbon disulfide	75-15-0		2.47	Missed peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.35PPBV

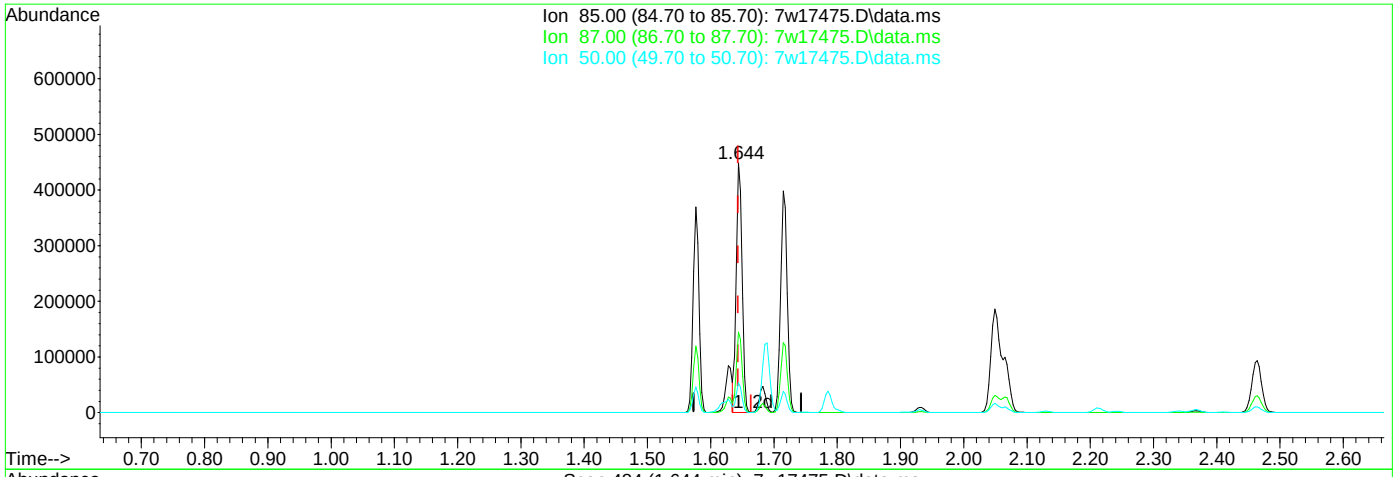
response 352449

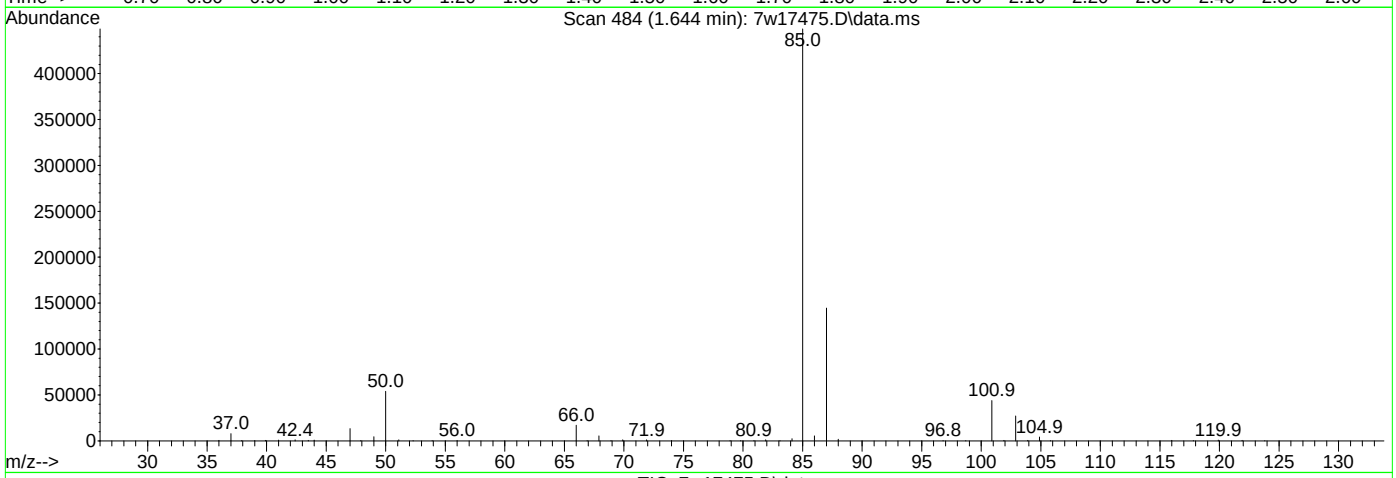
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.29
50.00	19.30	17.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.22PPBV m

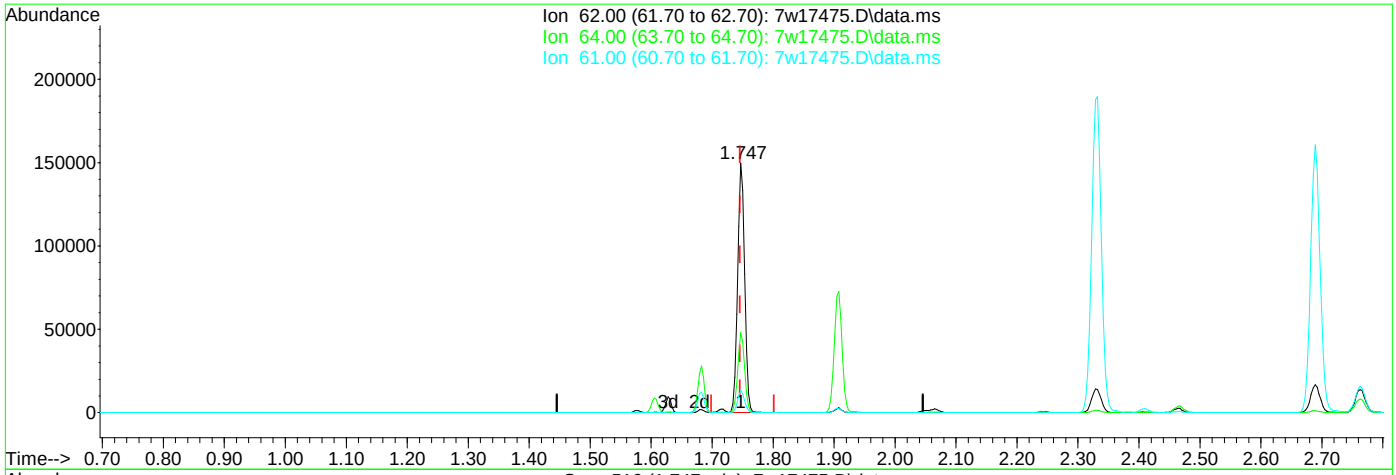
response 291674

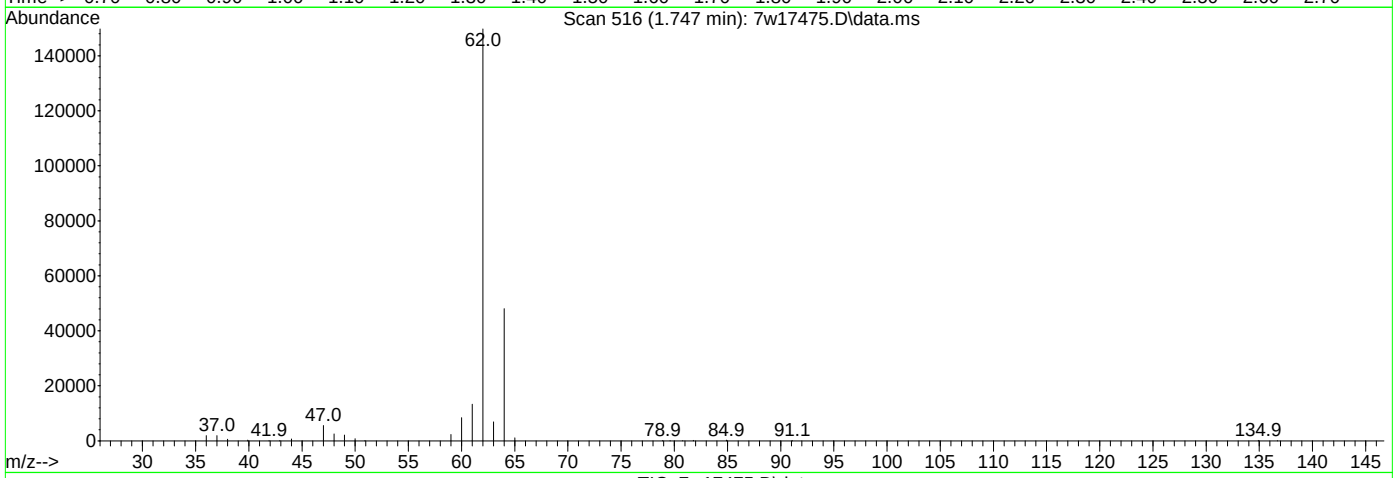
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.02
50.00	19.30	20.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.33PPBV

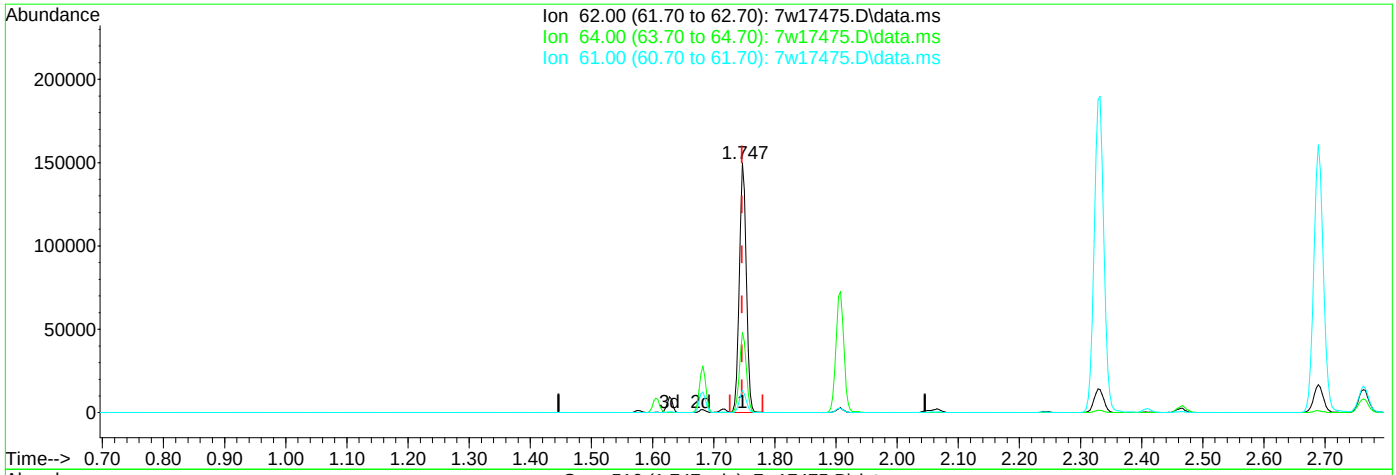
response 120814

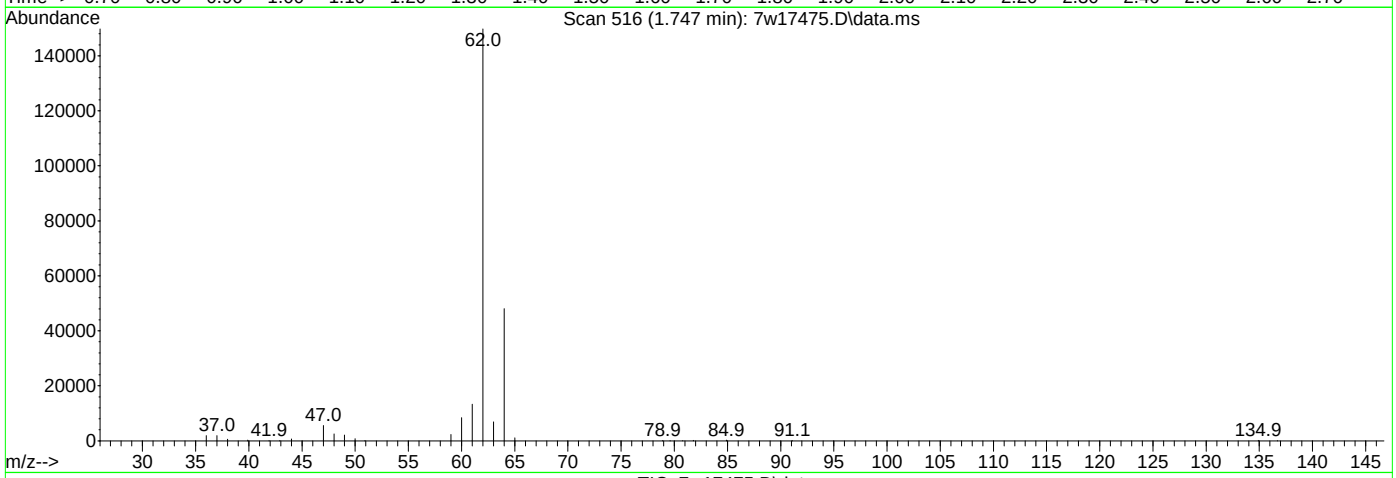
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.28
61.00	8.10	8.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.22PPBV m

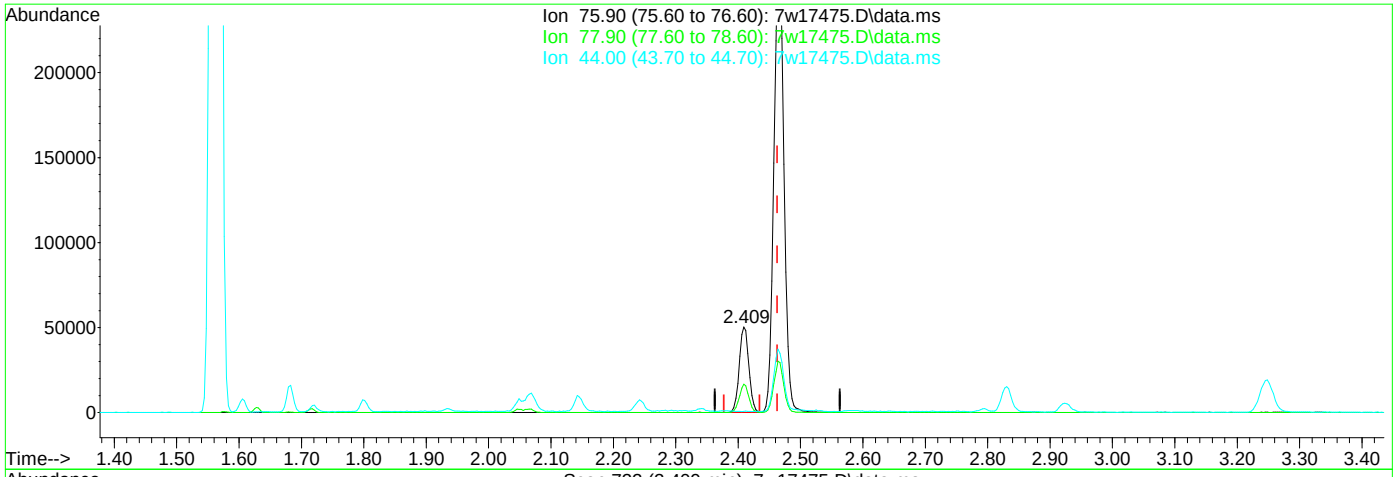
response 119109

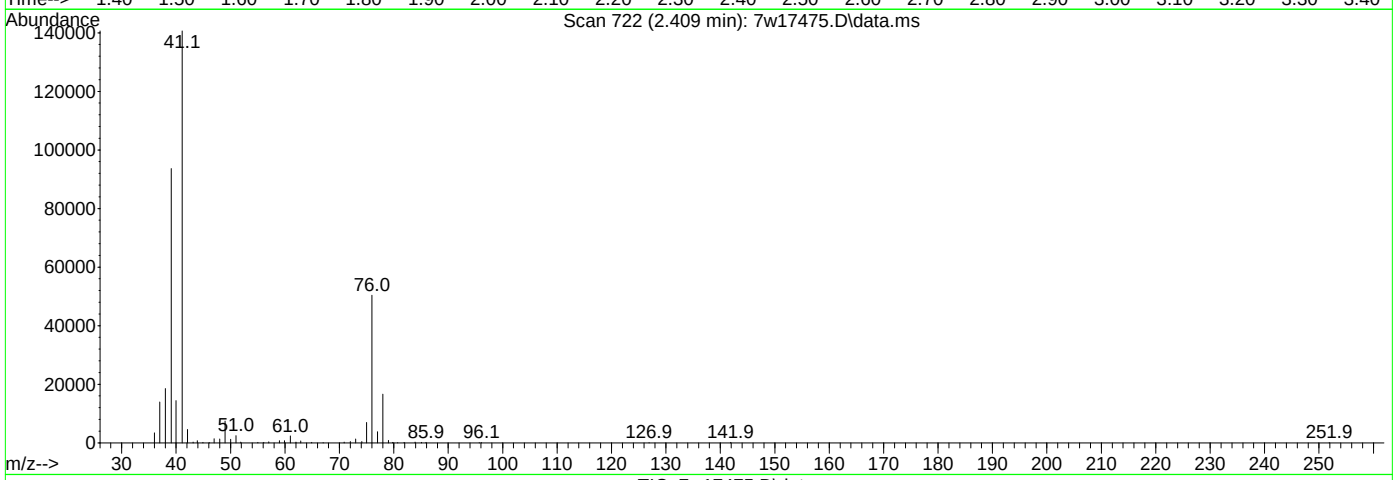
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.73
61.00	8.10	8.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.409min (-0.054) 1.62PPBV

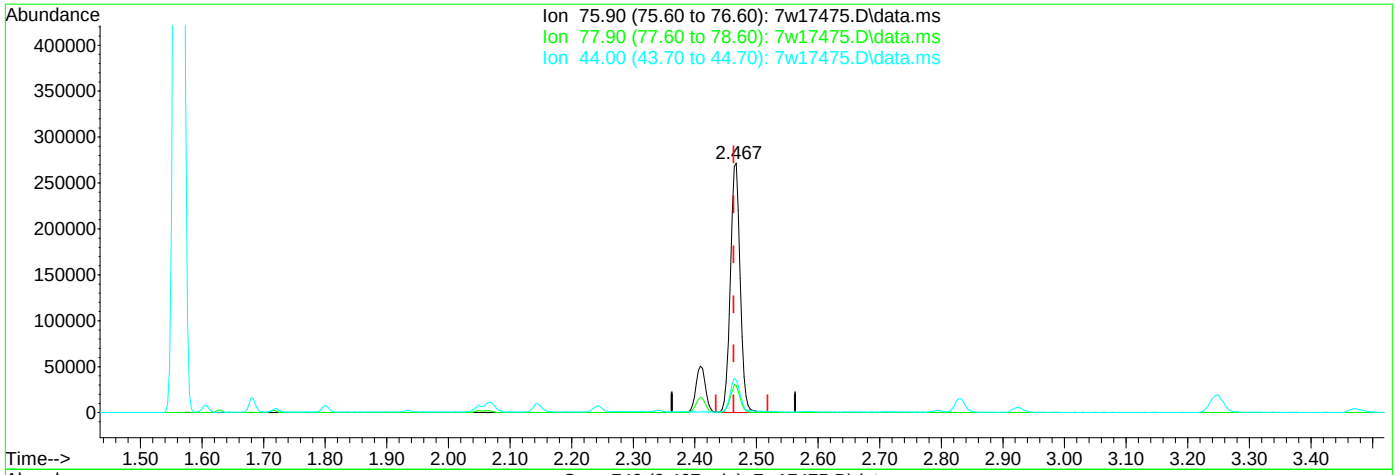
response 54178

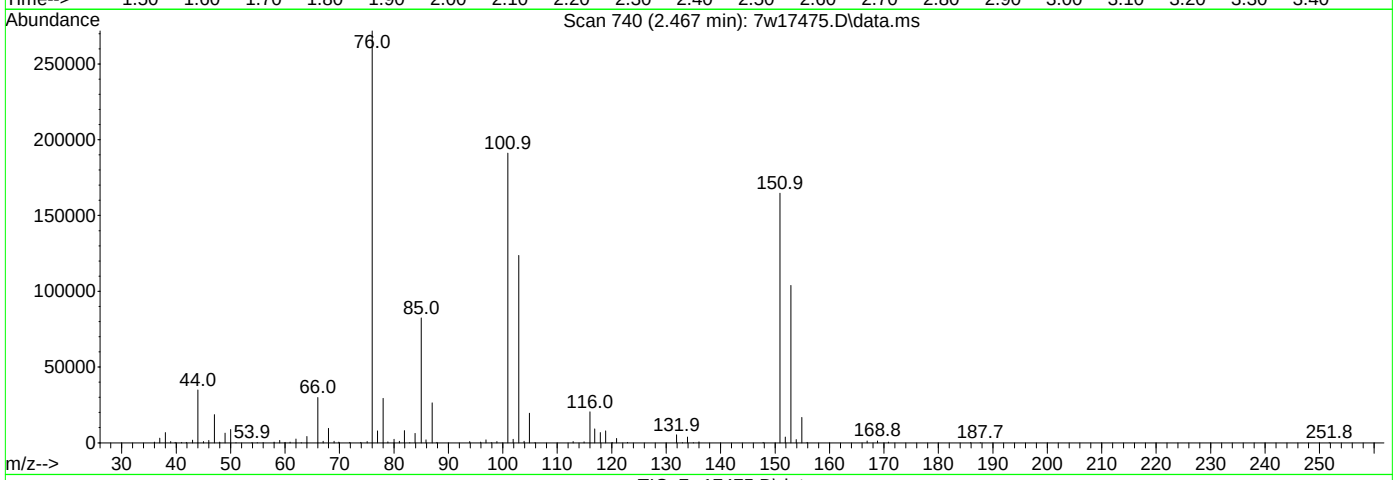
Ion	Exp%	Act%
75.90	100	100
77.90	11.00	32.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.467min (+0.004) 8.99PPBV m

response 301432

Ion	Exp%	Act%
75.90	100	100
77.90	11.00	5.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	130379	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	642815	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	599585	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	130461	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	486335	10.07	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	176735	11.1743	PPBV		99
3) FREON 152A	1.608	65	89326	10.9473	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	40053	11.3065	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	197338	11.5774	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	331395m	10.6133	PPBV		
7) PROPYLENE	1.627	41	107588	10.1874	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	298348	10.7394	PPBV		99
9) FREON 114	1.717	85	333202	10.3527	PPBV		98
10) CHLOROMETHANE	1.689	52	39113	8.7346	PPBV		96
11) VINYL CHLORIDE	1.750	62	140496m	8.8606	PPBV		
12) 1,3-BUTADIENE	1.785	54	109540	8.7462	PPBV		99
13) N-BUTANE	1.801	43	189708	8.9517	PPBV		98
14) BROMOMETHANE	1.859	94	120340	9.7876	PPBV		99
15) CHLOROETHANE	1.907	64	77444	8.9982	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.933	67	293933	9.8622	PPBV		99
17) ACETONITRILE	1.997	41	106613	7.1990	PPBV		100
18) ACROLEIN	2.036	56	60964	8.6658	PPBV		97
19) FREON 123	2.049	83	313937	10.4544	PPBV		99
20) FREON 123A	2.068	117	196771	11.0608	PPBV		94
21) TRICHLOROFLUOROMETHANE	2.129	101	362130	10.6783	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	277425	9.6537	PPBV		97
23) ACETONE	2.074	58	72195	9.1885	PPBV		96
24) PENTANE	2.242	42	135958	8.7355	PPBV		95
25) IODOMETHANE	2.303	142	352266	11.2902	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	134028	10.3681	PPBV		95
27) CARBON DISULFIDE	2.463	76	345454	9.4183	PPBV		99
28) ETHANOL	1.936	45	58852	7.6924	PPBV		98
29) BROMOETHENE	2.007	106	125973	10.2053	PPBV		100
30) ACRYLONITRILE	2.213	52	103889	9.4028	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	117155	9.2451	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	62884	9.0946	PPBV		93
33) FREON 113	2.463	151	222768	11.4407	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	127816	8.9868	PPBV		95
35) TERTIARY BUTYL ALCOHOL	2.341	59	281570	7.8423	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	403327	9.9691	PPBV		100
37) TETRAHYDROFURAN	3.470	72	63152	9.6247	PPBV		95
38) HEXANE	3.242	57	265163	9.7303	PPBV		100
39) VINYL ACETATE	2.830	86	39734	10.2179	PPBV		91
40) 1,1-DICHLOROETHANE	2.762	63	268535	9.7668	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	72677	9.7738	PPBV		93
42) CIS-1,2-DICHLOROETHENE	3.116	96	152205	10.3170	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	75942	9.8290	PPBV		95
44) ETHYL ACETATE	3.251	61	53380	10.2196	PPBV		96
45) METHYL ACRYLATE	3.238	55	326671	9.9066	PPBV	#	100
46) CHLOROFORM	3.264	83	302027	10.6136	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	312976	10.2614	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	322542	10.7547	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	344735	11.0957	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224224	10.1362	PPBV		99
51)	BENZENE	4.129	78	434136	9.9453	PPBV		99
53)	CYCLOHEXANE	4.335	84	195153	10.3770	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.586	71	100086	10.6718	PPBV		100
55)	TRICHLOROETHENE	5.013	95	203318	10.1417	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	182672	10.3093	PPBV		99
57)	DIBROMOMETHANE	4.746	174	219183	12.8301	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	405297	10.2192	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	344428	10.6336	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	843872	9.7228	PPBV		99
61)	1,4-DIOXANE	5.029	88	102208	10.7705	PPBV		97
62)	HEPTANE	5.418	43	281372	9.8183	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	166045	10.3110	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	163064	9.4885	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	281698	10.3681	PPBV		97
66)	TOLUENE	7.132	91	550062	10.7769	PPBV		98
67)	1,3-DICHLOROPROPANE	7.190	76	278241	10.8735	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	247748	10.0926	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.765	83	159511	10.9672	PPBV		98
70)	2-HEXANONE	7.691	58	219736	9.1635	PPBV		97
71)	ETHYL METHACRYLATE	7.830	69	282972	10.5342	PPBV		96
72)	TETRACHLOROETHENE	8.846	164	255210	13.7080	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	361003	12.2138	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	305704	11.6183	PPBV	#	98
75)	OCTANE	8.994	43	390745	10.1788	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	247746	11.5146	PPBV		98
78)	CHLOROBENZENE	10.045	112	451175	11.0149	PPBV		99
79)	ETHYLBENZENE	10.926	91	750408	11.1801	PPBV		99
80)	M,P-XYLENE	11.351	91	1163998	21.4078	PPBV		98
81)	O-XYLENE	12.280	91	593266	11.2419	PPBV		99
82)	STYRENE	12.071	104	449108	11.3517	PPBV		99
83)	NONANE	13.402	43	415056	10.1039	PPBV		97
84)	BROMOFORM	11.161	173	406205	16.0491	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	423563	11.2047	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.576	75	333873	11.2690	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218081	10.8709	PPBV		99
89)	BROMOBENZENE	13.656	77	410584	10.6567	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	201788	10.7850	PPBV		100
91)	N-PROPYLBENZENE	15.125	120	231395	10.8678	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	870118	11.0427	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.846	105	731717	11.1579	PPBV		98
94)	ALPHA-METHYLSTYRENE	16.173	118	351353	10.8032	PPBV		99
95)	TERT-BUTYLBENZENE	16.495	134	165463	10.3488	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	747610	11.4996	PPBV		99
97)	BENZYL CHLORIDE	16.598	91	551134	10.4934	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	482591	10.8044	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	486723	11.0587	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	460040	11.1032	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	202794	10.6516	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	718118	11.0188	PPBV		98
103)	P-ISOPROPYLTOLUENE	17.009	134	221605	10.4722	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218487	10.8299	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	282989	11.3859	PPBV	#	83
106)	HEXACHLOROBUTADIENE	18.620	225	578900	19.6459	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.308	180	586728	16.6022	PPBV		97
108)	NAPHTHALENE	18.357	128	1106673	13.9595	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	673394	9.1450	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

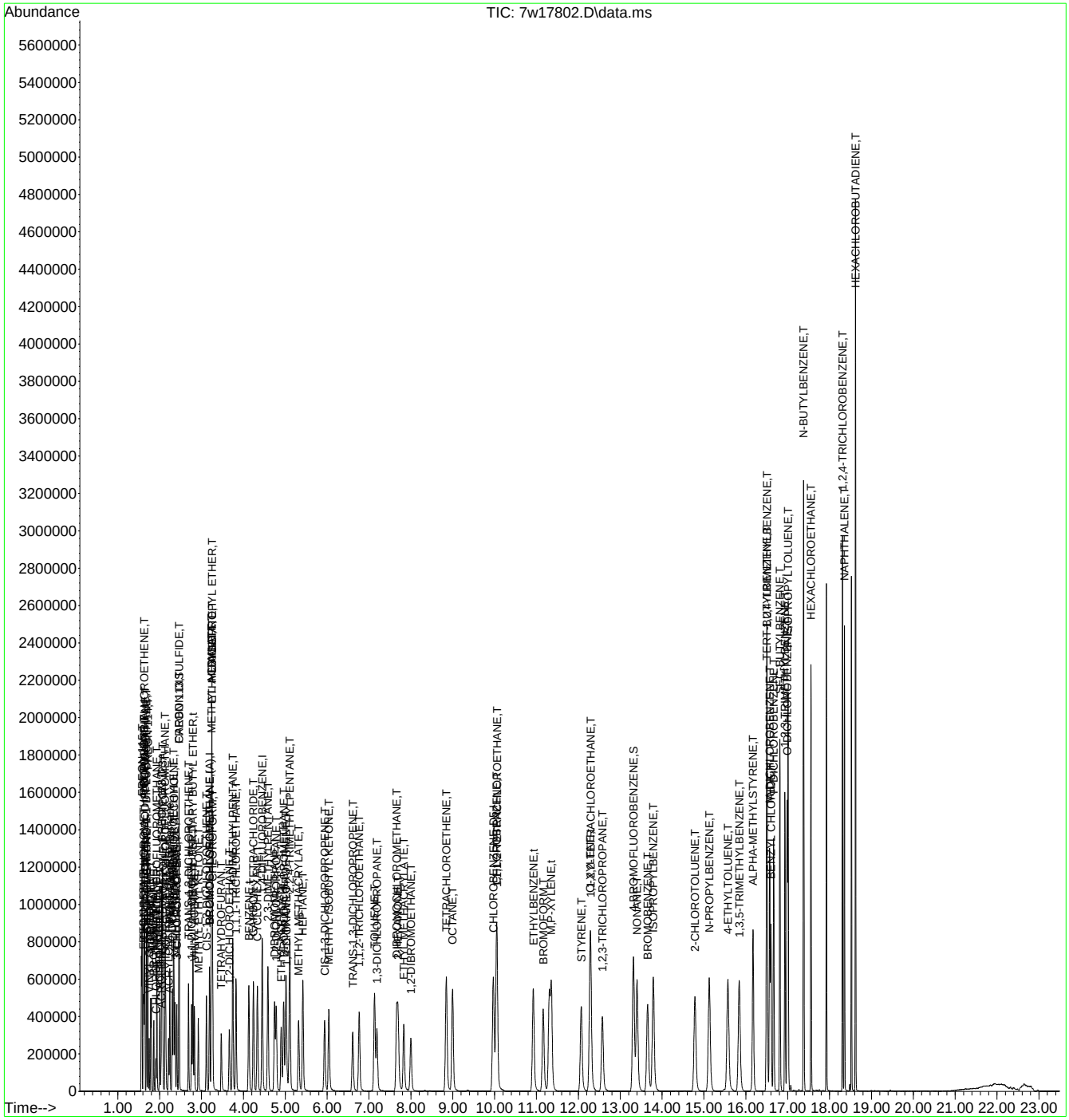
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

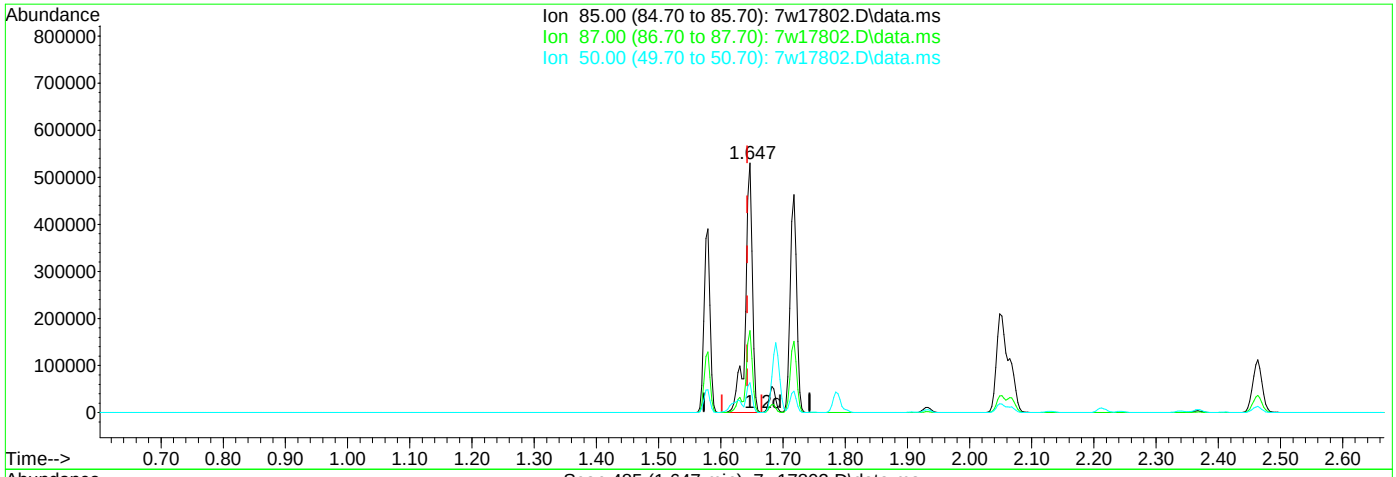
Sample Number: V7W624-BS
Lab FileID: 7W17802.D
Injection Time: 10/13/25 12:00
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

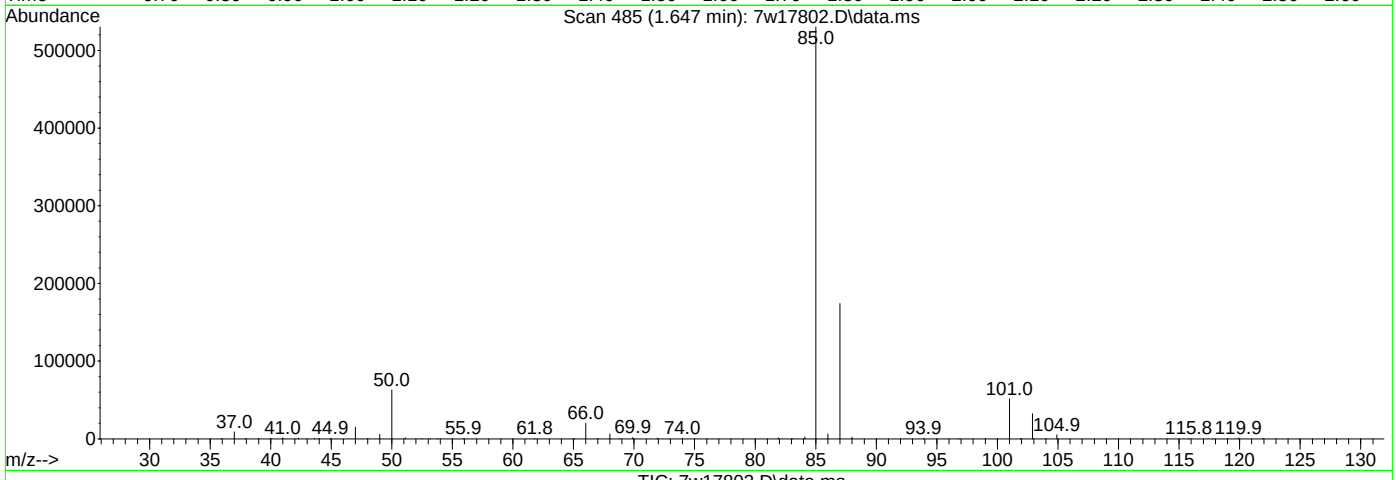
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.10PPBV

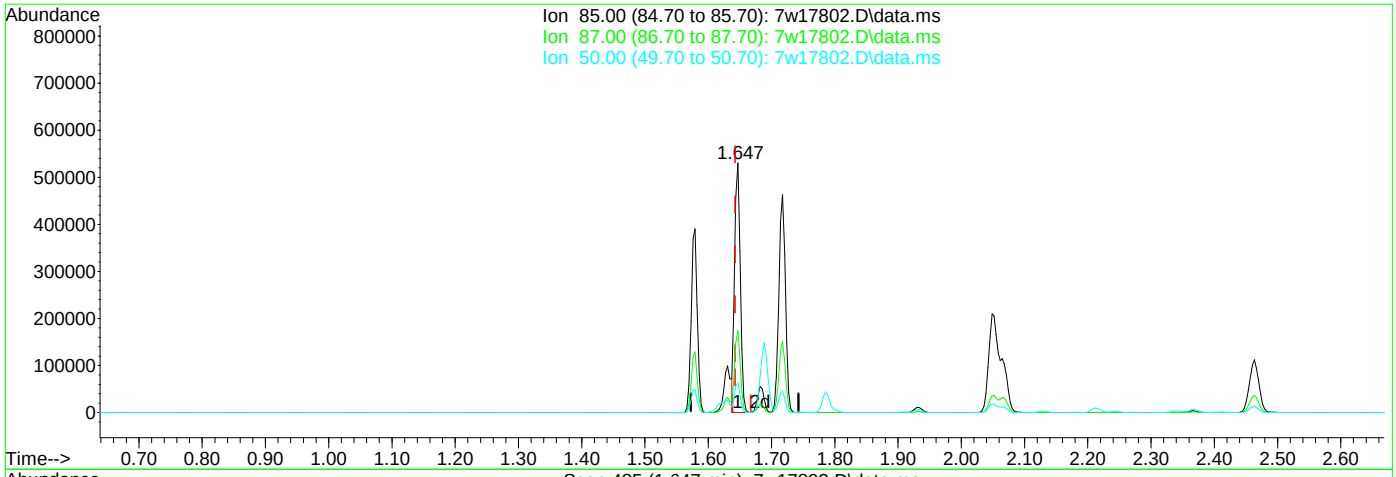
response 409190

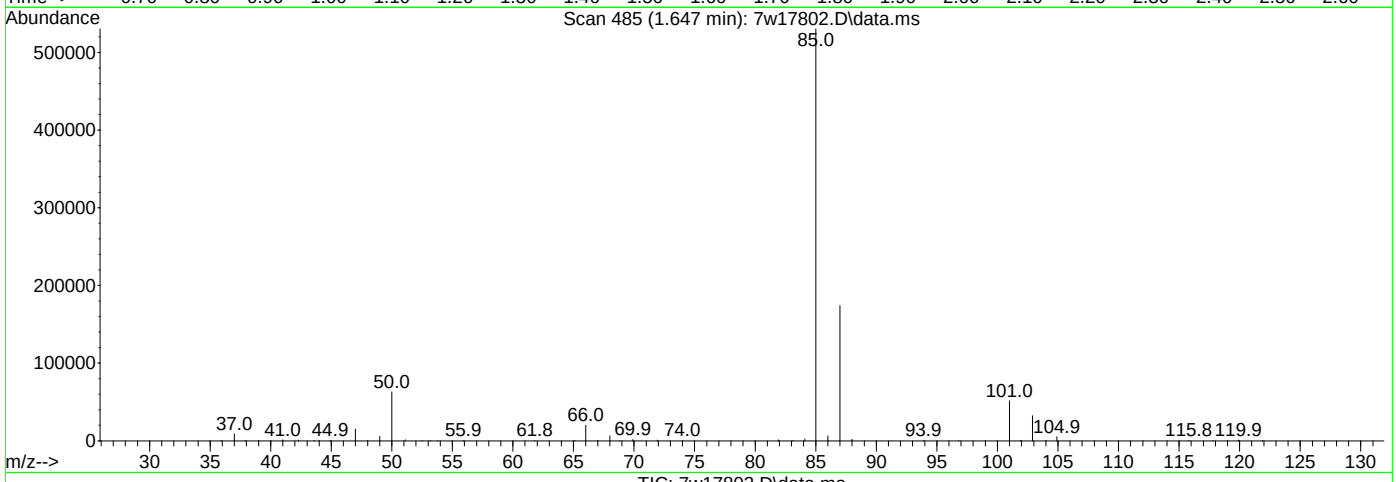
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.71
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.61PPBV m

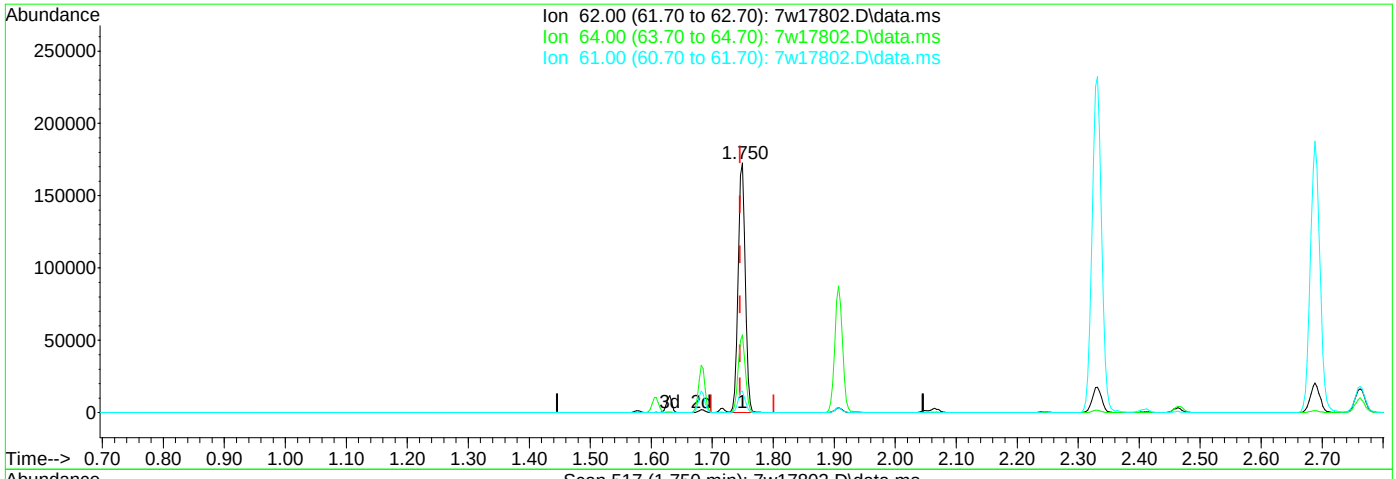
response 331395

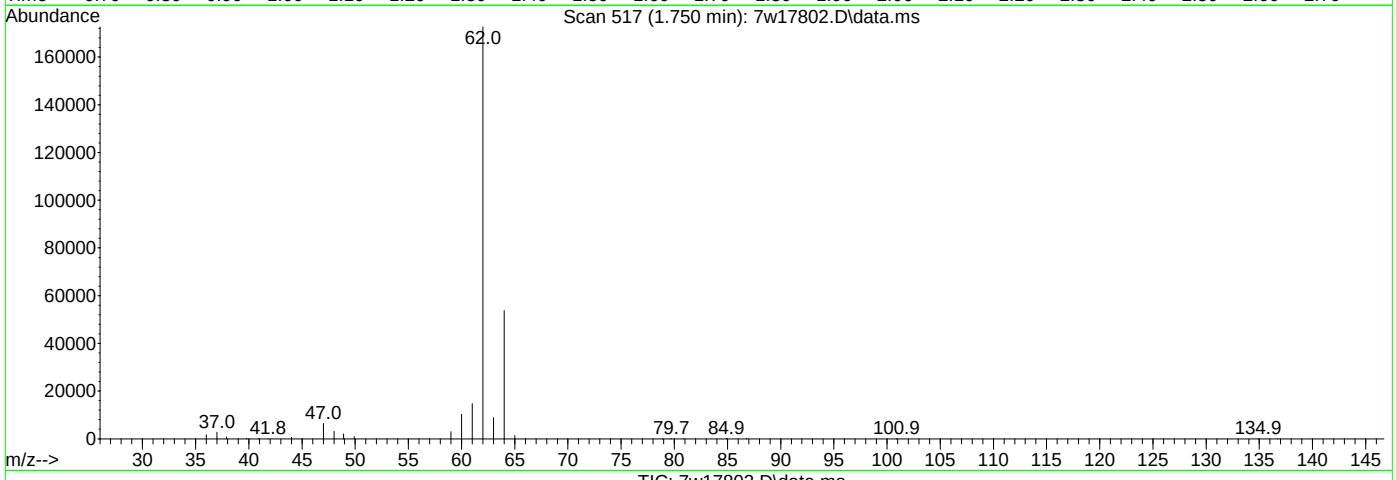
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.39
50.00	19.30	21.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.98PPBV

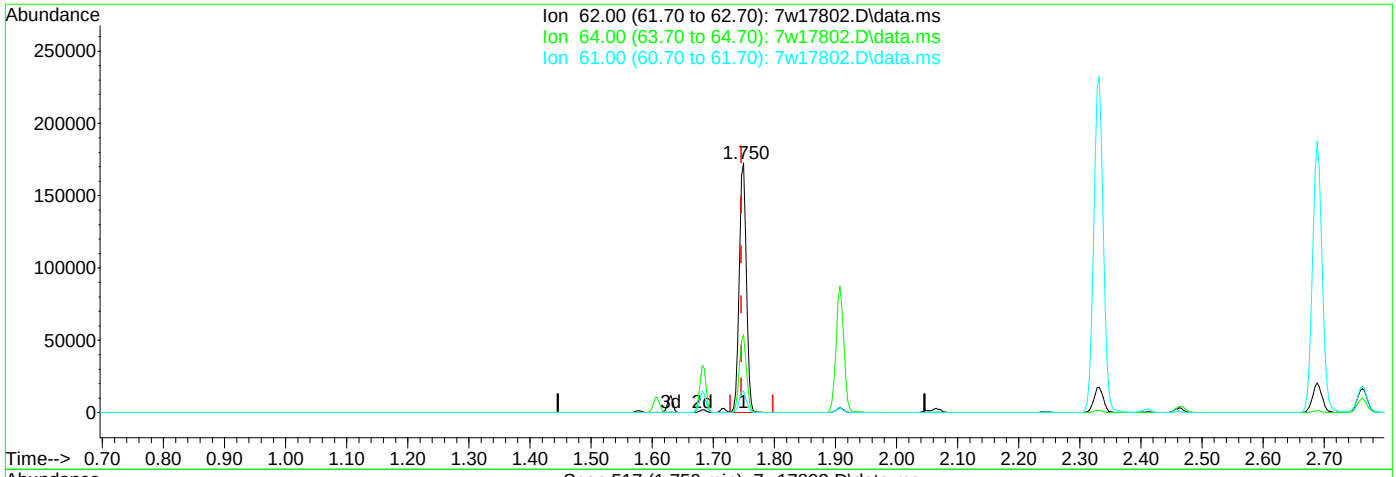
response 142442

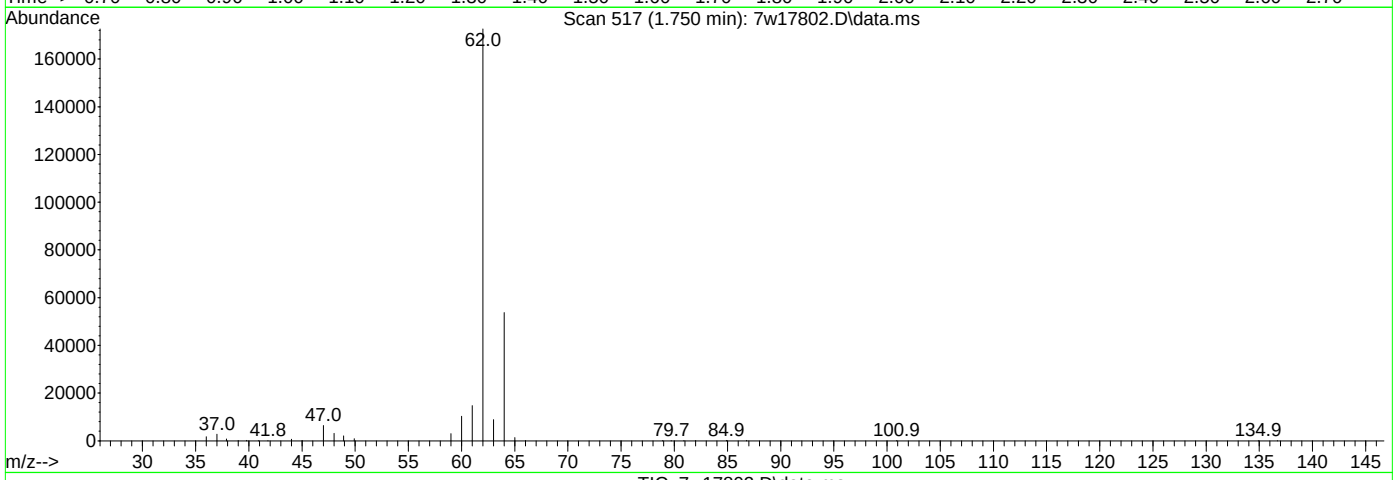
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.06
61.00	8.10	8.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.86PPBV m

response 140496

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.49
61.00	8.10	9.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	133015	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	654252	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	606507	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	133015	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	488885	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	184518	11.4351	PPBV		97
3) FREON 152A	1.608	65	88561	10.6384	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	39504	10.9306	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	198082	11.3907	PPBV		93
6) DICHLORODIFLUOROMETHANE	1.647	85	330825m	10.3850	PPBV		
7) PROPYLENE	1.627	41	106360	9.8716	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	294346	10.3854	PPBV		99
9) FREON 114	1.718	85	333590	10.1593	PPBV		98
10) CHLOROMETHANE	1.689	52	38875	8.5094	PPBV		95
11) VINYL CHLORIDE	1.750	62	141171m	8.7268	PPBV		
12) 1,3-BUTADIENE	1.788	54	109232	8.5488	PPBV		98
13) N-BUTANE	1.801	43	188556	8.7211	PPBV		98
14) BROMOMETHANE	1.859	94	120595	9.6140	PPBV		100
15) CHLOROETHANE	1.907	64	77077	8.7781	PPBV		97
16) DICHLOROFLUOROMETHANE	1.933	67	293626	9.6567	PPBV		99
17) ACETONITRILE	1.997	41	107546	7.1181	PPBV		100
18) ACROLEIN	2.036	56	60096	8.3731	PPBV		98
19) FREON 123	2.049	83	313055	10.2185	PPBV		99
20) FREON 123A	2.068	117	194913	10.7393	PPBV		95
21) TRICHLOROFLUOROMETHANE	2.129	101	360832	10.4292	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	271841	9.2719	PPBV		97
23) ACETONE	2.074	58	71308	8.8957	PPBV		93
24) PENTANE	2.245	42	137594	8.6655	PPBV		97
25) IODOMETHANE	2.303	142	349118	10.9676	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	133461	10.1196	PPBV		93
27) CARBON DISULFIDE	2.463	76	347514	9.2867	PPBV		99
28) ETHANOL	1.936	45	58793	7.5324	PPBV		99
29) BROMOETHENE	2.007	106	126156	10.0176	PPBV		99
30) ACRYLONITRILE	2.213	52	102809	9.1206	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	116850	9.0383	PPBV		91
32) 3-CHLOROPROPENE	2.409	76	62225	8.8210	PPBV		94
33) FREON 113	2.463	151	226512	11.4025	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.689	96	126753	8.7354	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.341	59	282424	7.7102	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	404326	9.7958	PPBV		100
37) TETRAHYDROFURAN	3.470	72	64425	9.6242	PPBV		94
38) HEXANE	3.242	57	266392	9.5817	PPBV		99
39) VINYL ACETATE	2.830	86	39170	9.8733	PPBV		92
40) 1,1-DICHLOROETHANE	2.762	63	279927	9.9793	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	72215	9.5192	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	151940	10.0949	PPBV		97
43) DIISOPROPYL ETHER	3.245	59	75945	9.6346	PPBV		93
44) ETHYL ACETATE	3.251	61	53799	10.0957	PPBV		93
45) METHYL ACRYLATE	3.238	55	325302	9.6696	PPBV	#	99
46) CHLOROFORM	3.264	83	301909	10.3992	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313273	10.0676	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	320180	10.4644	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	344405	10.8654	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	222139	9.8429	PPBV		98
51)	BENZENE	4.129	78	434777	9.7626	PPBV		99
53)	CYCLOHEXANE	4.335	84	196451	10.2634	PPBV		98
54)	2,3-DIMETHYLPENTANE	4.589	71	99309	10.4039	PPBV		100
55)	TRICHLOROETHENE	5.016	95	203186	9.9580	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181676	10.0739	PPBV		99
57)	DIBROMOMETHANE	4.746	174	220157	12.6619	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	408747	10.1261	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	340157	10.3182	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	830339	9.3996	PPBV		100
61)	1,4-DIOXANE	5.029	88	100689	10.4249	PPBV		99
62)	HEPTANE	5.418	43	278969	9.5643	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	165333	10.0873	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	164209	9.3881	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	282530	10.2170	PPBV		96
66)	TOLUENE	7.129	91	547970	10.5482	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	280485	10.7696	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	247201	9.8943	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	160800	10.8626	PPBV		98
70)	2-HEXANONE	7.692	58	221370	9.0703	PPBV		96
71)	ETHYL METHACRYLATE	7.830	69	280723	10.2678	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	253519	13.3791	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	357061	11.8692	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	302895	11.3103	PPBV	#	100
75)	OCTANE	8.997	43	389859	9.9782	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	244269	11.2234	PPBV		97
78)	CHLOROBENZENE	10.045	112	450459	10.8719	PPBV		100
79)	ETHYLBENZENE	10.923	91	751257	11.0651	PPBV		99
80)	M,P-XYLENE	11.347	91	1173523	21.3367	PPBV		99
81)	O-XYLENE	12.277	91	592934	11.1073	PPBV		99
82)	STYRENE	12.068	104	454402	11.3545	PPBV		99
83)	NONANE	13.402	43	413963	9.9623	PPBV		98
84)	BROMOFORM	11.161	173	406068	15.8606	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	423094	11.0646	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	334705	11.1682	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218245	10.7550	PPBV		100
89)	BROMOBENZENE	13.656	77	409590	10.5096	PPBV		87
90)	2-CHLOROTOLUENE	14.785	126	203896	10.7733	PPBV		100
91)	N-PROPYLBENZENE	15.129	120	231345	10.7414	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	877241	11.0060	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	734177	11.0677	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.170	118	351054	10.6708	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	165961	10.2615	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	742070	11.2841	PPBV		100
97)	BENZYL CHLORIDE	16.598	91	548913	10.3318	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	486045	10.7576	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	485602	10.9073	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	457928	10.9261	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	201843	10.4806	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	720134	10.9236	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	221195	10.3336	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218571	10.7104	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	284764	11.3265	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.624	225	569272	19.0986	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	587813	16.4431	PPBV		97
108)	NAPHTHALENE	18.357	128	1114796	13.9014	PPBV		100
110)	TVHC as equiv Pentane	2.245	TIC	677533	9.0245	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

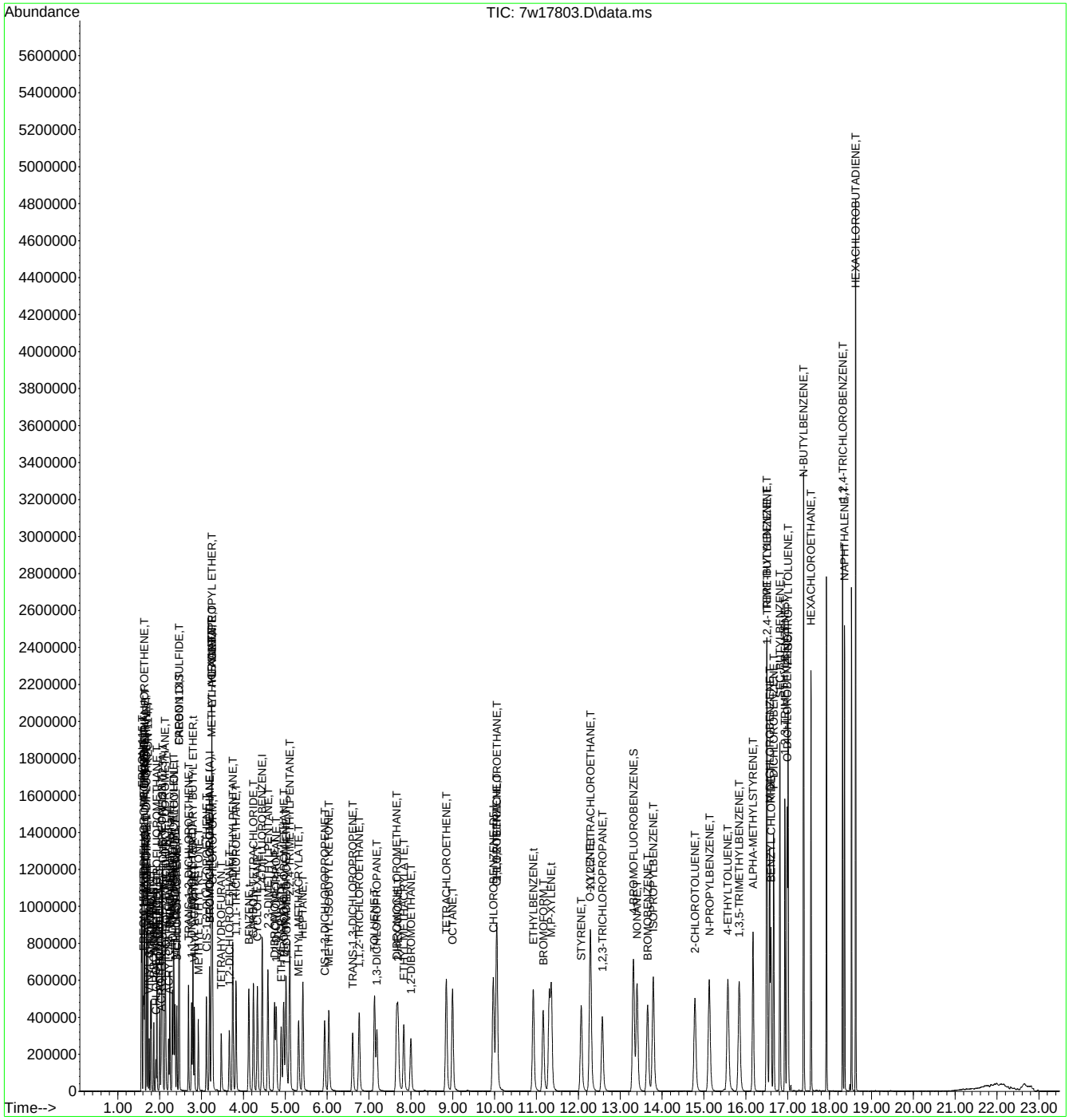
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

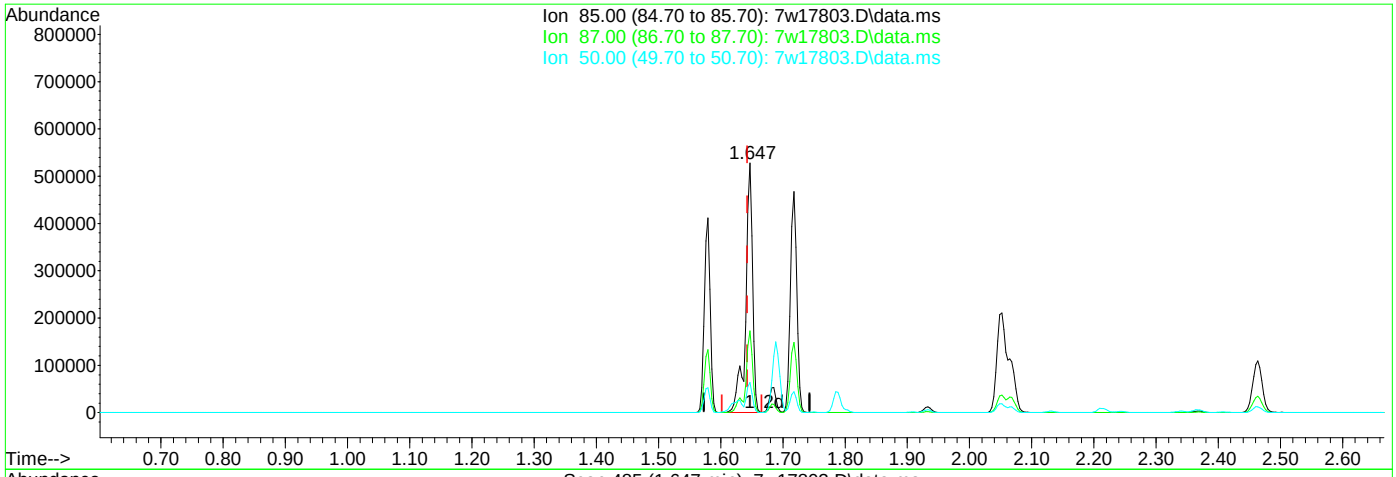
Sample Number: V7W624-BSD
Lab FileID: 7W17803.D
Injection Time: 10/13/25 12:37
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

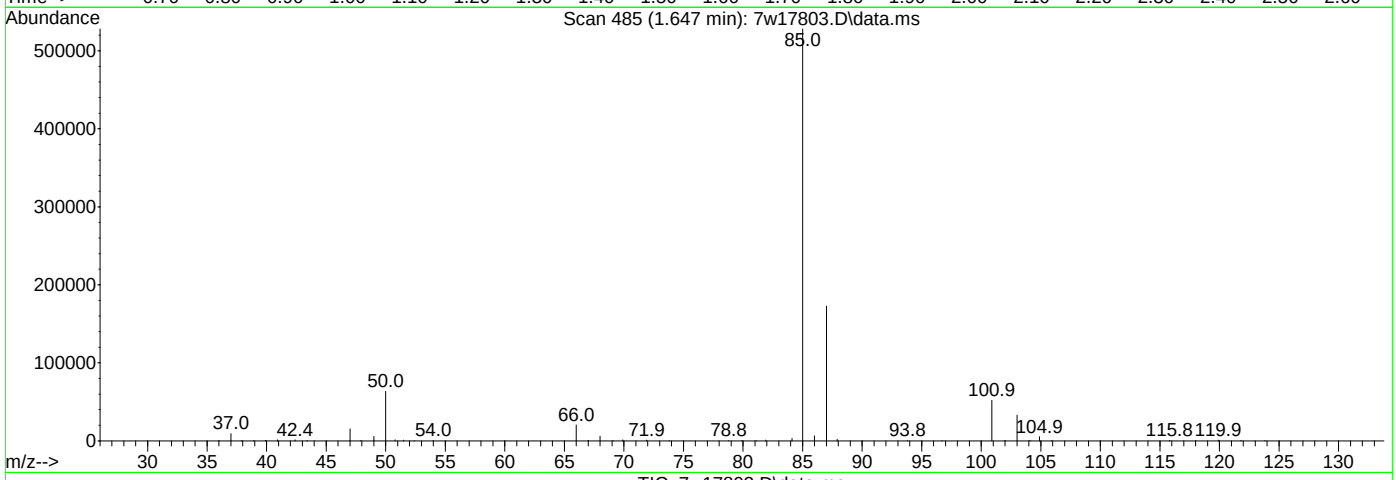
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

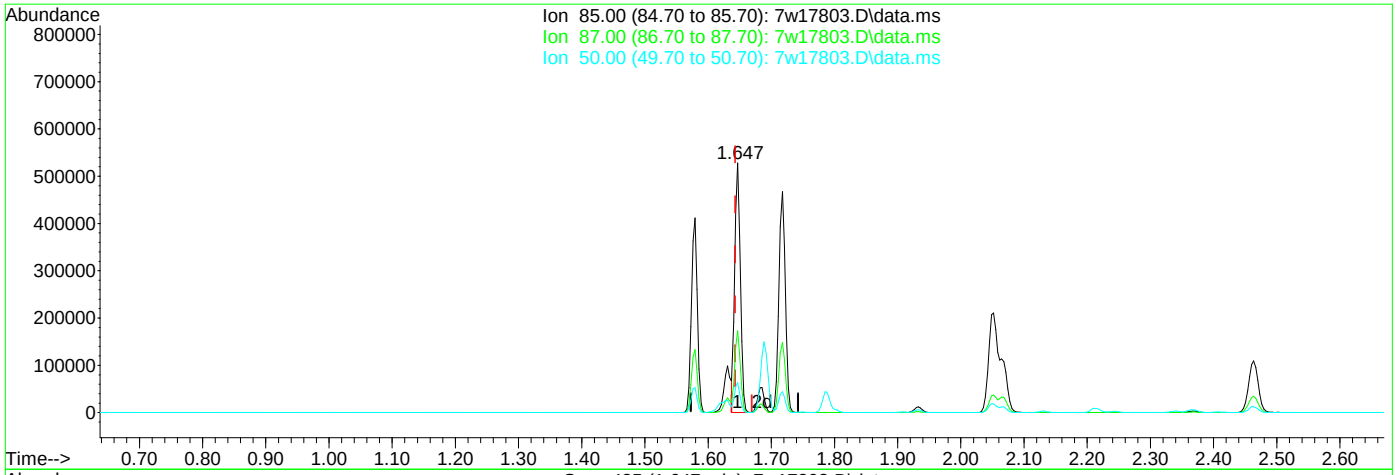
response 406017

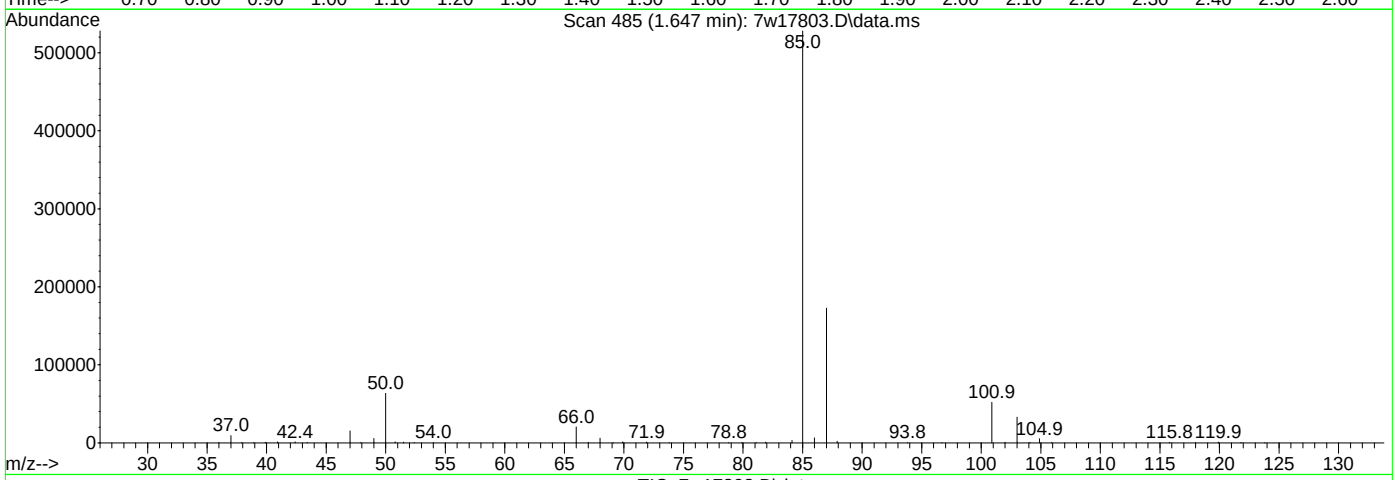
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.62
50.00	19.30	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.39PPBV m

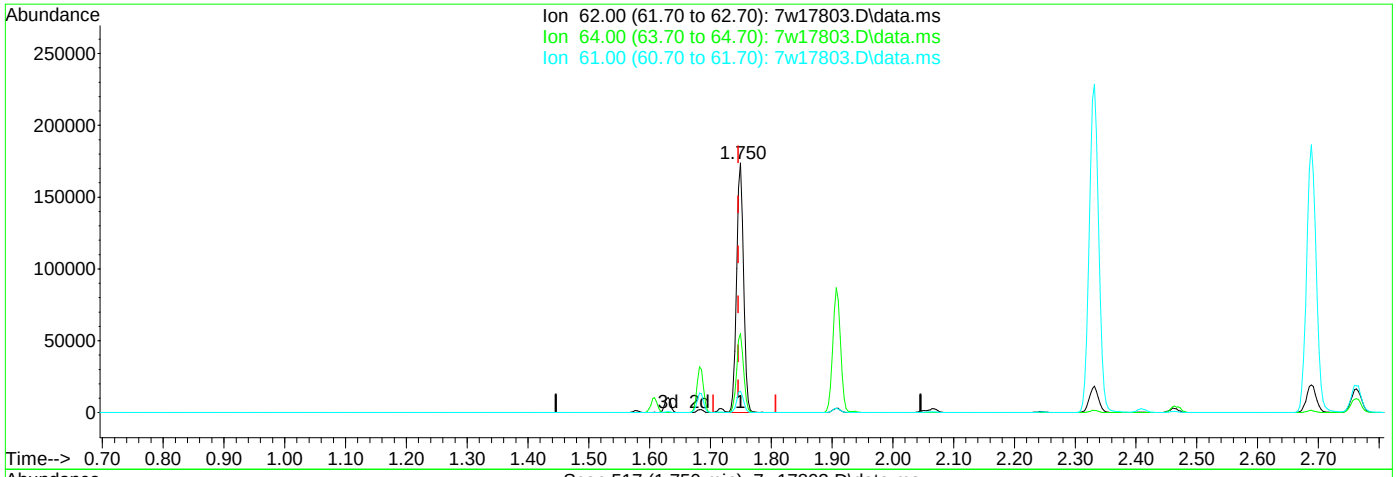
response 330825

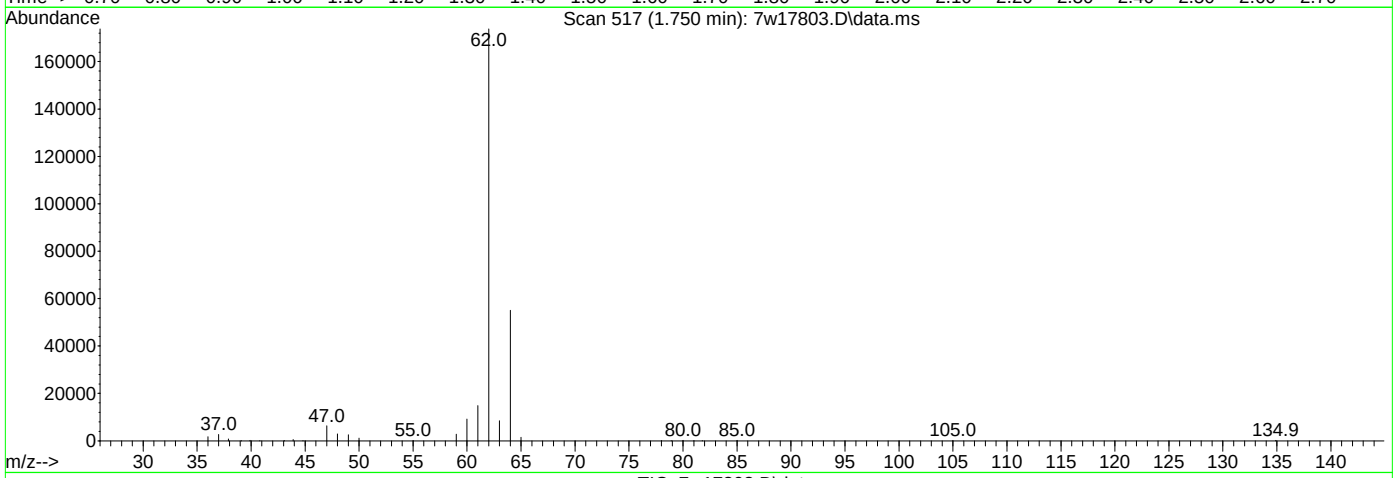
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.03
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.85PPBV

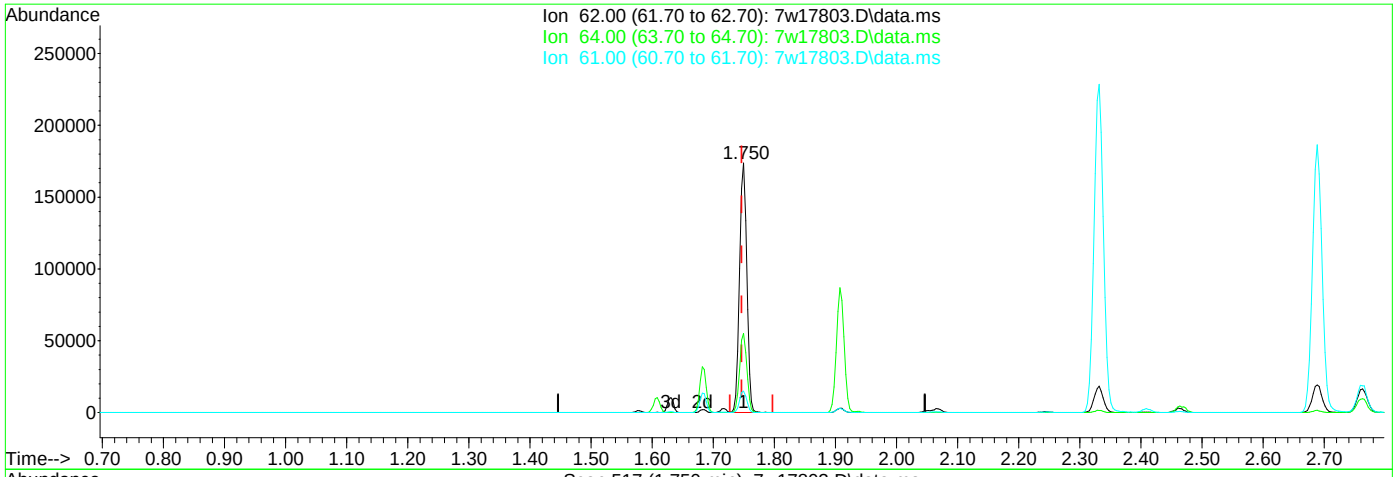
response 143146

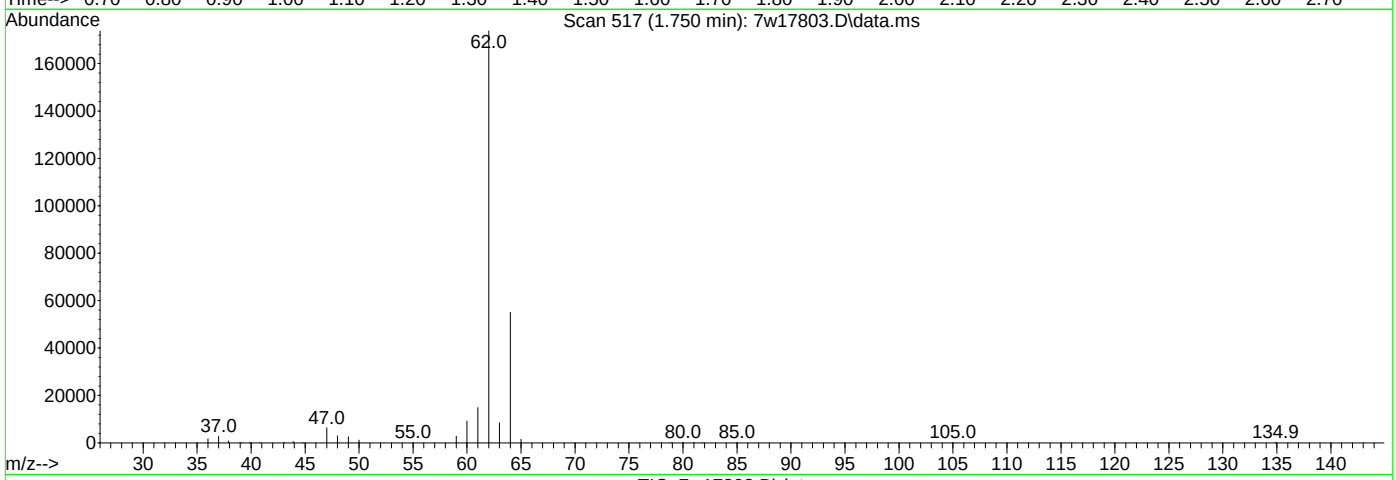
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.17
61.00	8.10	8.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.73PPBV m

response 141171

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.61
61.00	8.10	8.79
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

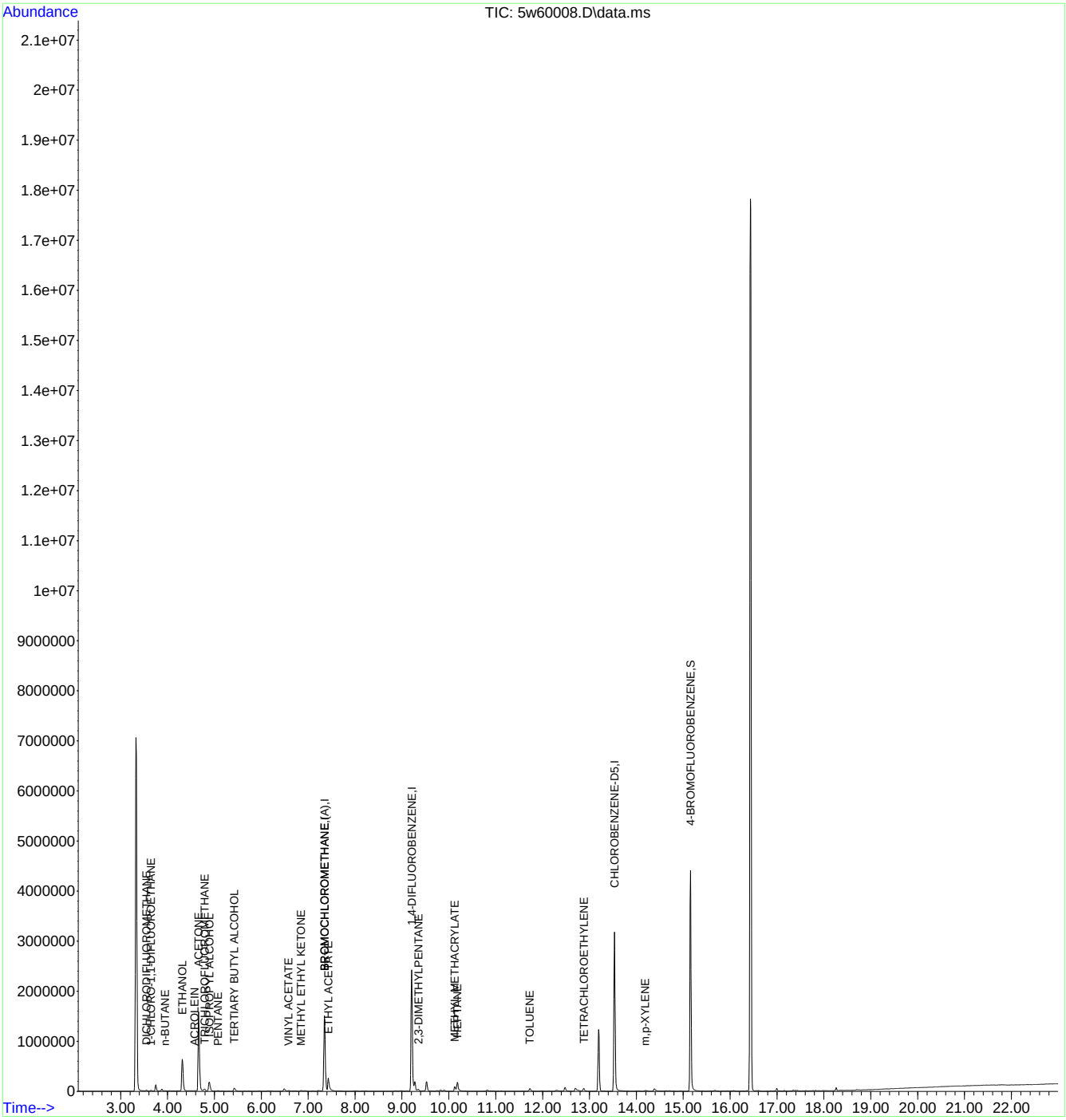
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	490041	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2190031	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1089506	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	490778	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1484212	10.90	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.00%				
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	3.549	85	17723	0.1264	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13929	0.1226	PPBV		96
13) n-BUTANE	3.946	43	4731	0.1013	PPBV		92
18) ACROLEIN	4.577	56	3620	0.2388	PPBV		79
21) TRICHLOROFLUOROMETHANE	4.791	101	31215	0.2606	PPBV		99
22) ISOPROPYL ALCOHOL	4.888	45	300854	3.1308	PPBV		95
23) ACETONE	4.662	58	752725	39.1644	PPBV		89
24) PENTANE	5.072	42	5091	0.1020	PPBV		98
28) ETHANOL	4.313	45	842689	52.3433	PPBV		98
35) TERTIARY BUTYL ALCOHOL	5.421	59	84382	0.8587	PPBV		95
39) VINYL ACETATE	6.577	86	1682	0.2126	PPBV	#	89
41) METHYL ETHYL KETONE	6.840	72	7867	0.4156	PPBV		95
44) ETHYL ACETATE	7.427	61	58928	4.0742	PPBV		94
54) 2,3-DIMETHYLPENTANE	9.342	71	6241	0.2107	PPBV	#	92
62) HEPTANE	10.180	43	107980	1.2790	PPBV		78
63) METHYL METHACRYLATE	10.125	69	55112	1.1525	PPBV	#	73
66) TOLUENE	11.728	92	30163	0.2750	PPBV		94
73) TETRACHLOROETHYLENE	12.878	164	14795	0.1991	PPBV		97
80) m,p-XYLENE	14.194	106	8586	0.1043	PPBV		96

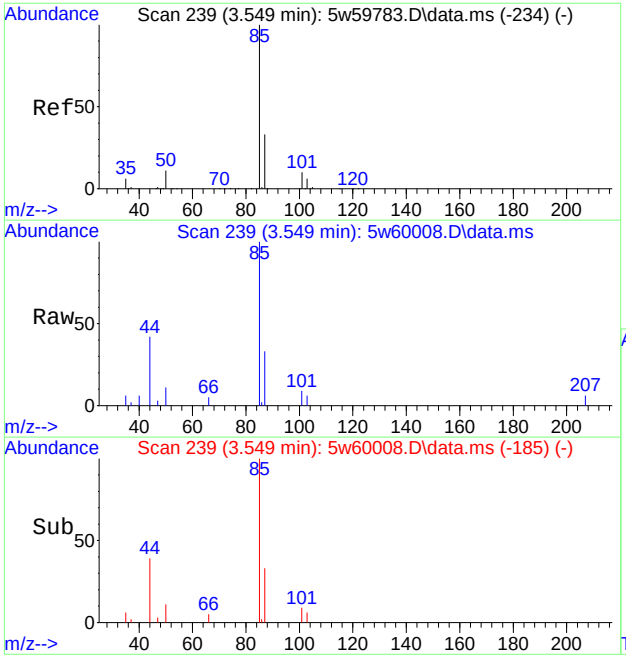
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

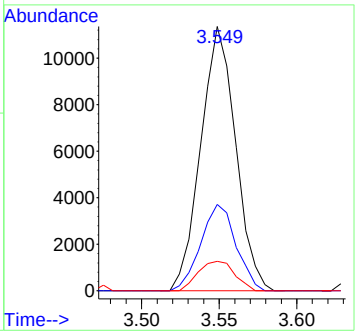


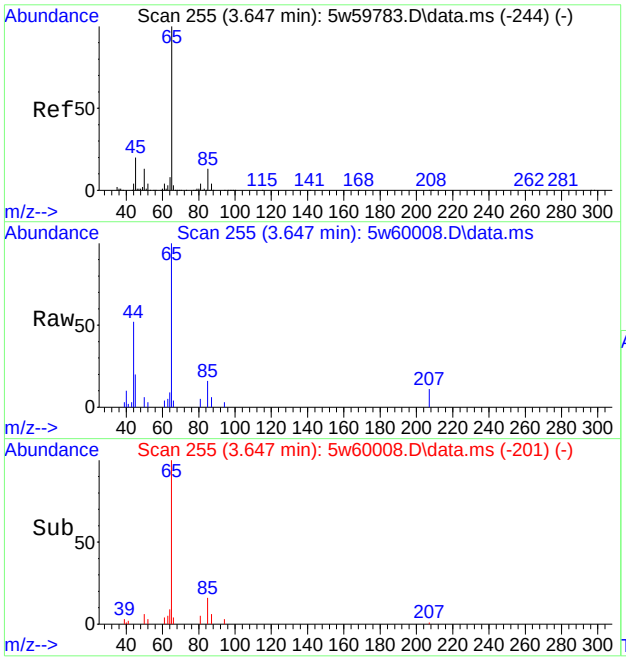


#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 85 Resp: 17723

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

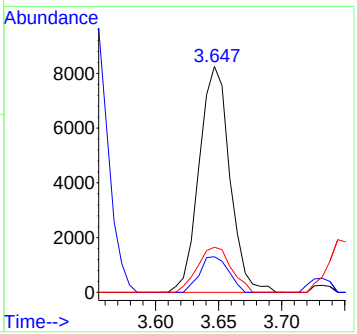


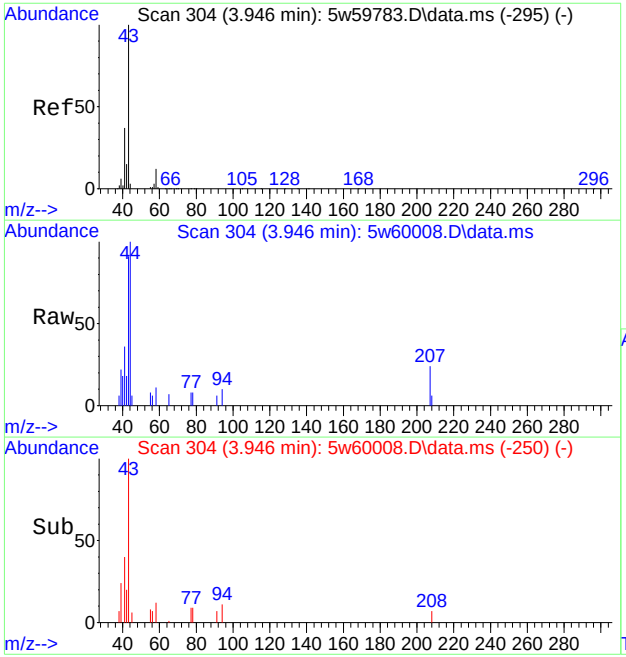


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.12 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 65 Resp: 13929

Ion	Ratio	Lower	Upper
65	100		
85	14.8	11.5	21.3
45	22.0	14.0	26.0

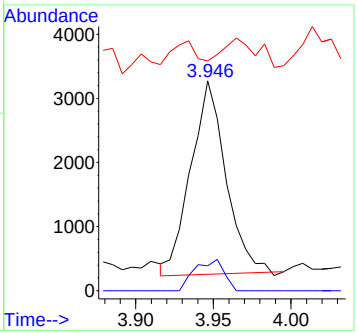


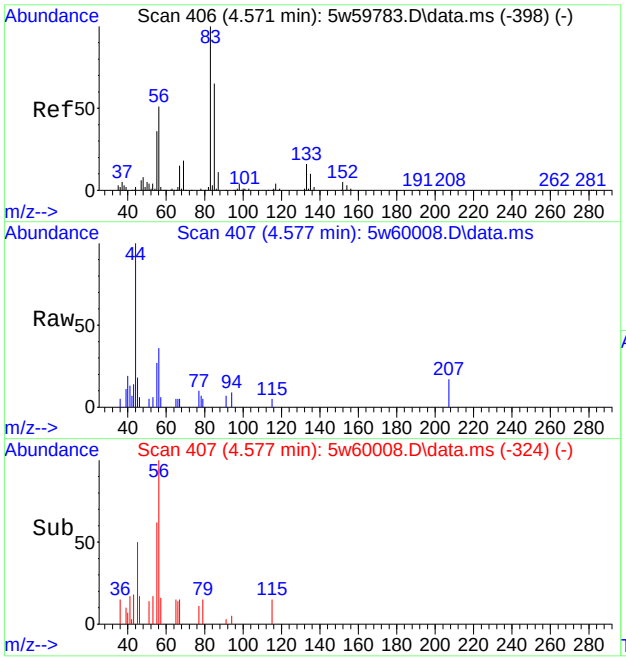


#13
n-BUTANE
Concen: 0.10 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 4731

Ion	Ratio	Lower	Upper
43	100		
58	13.4	0.0	42.6
44	13.1	0.0	34.9

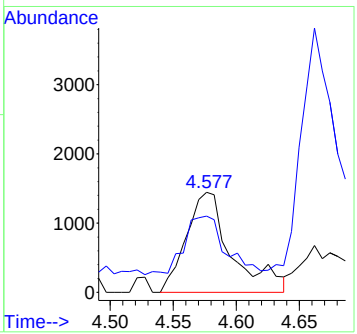


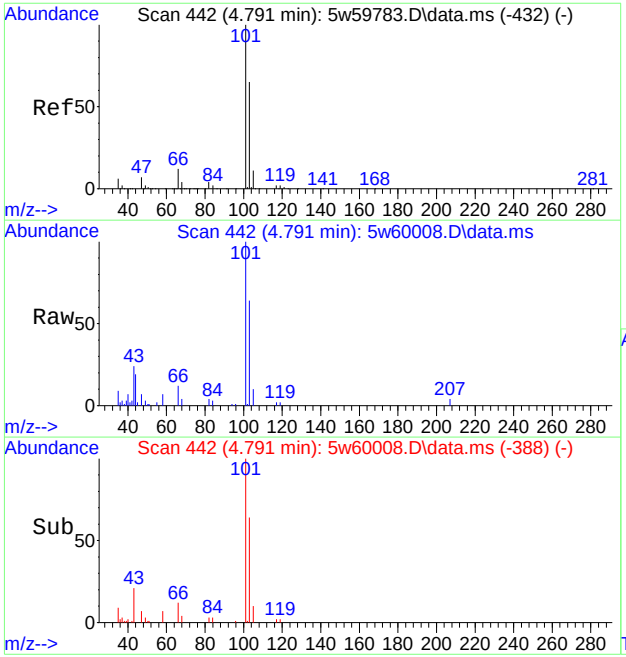


#18
ACROLEIN
Concen: 0.24 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 56 Resp: 3620

Ion	Ratio	Lower	Upper
56	100		
55	50.0	46.6	86.6

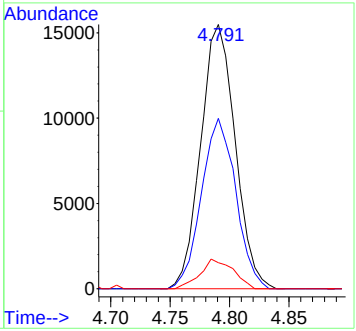


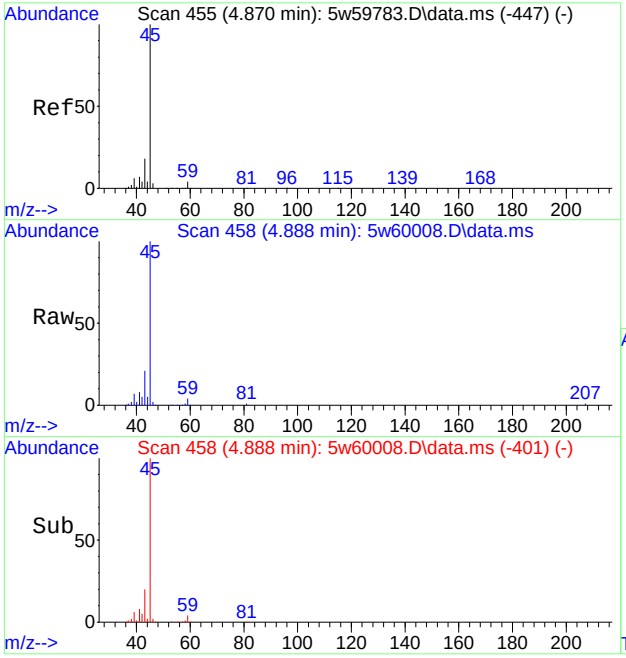


#21
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:101 Resp: 31215

Ion	Ratio	Lower	Upper
101	100		
103	64.1	35.0	95.0
105	10.8	0.0	40.7

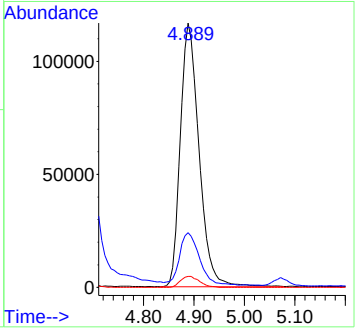


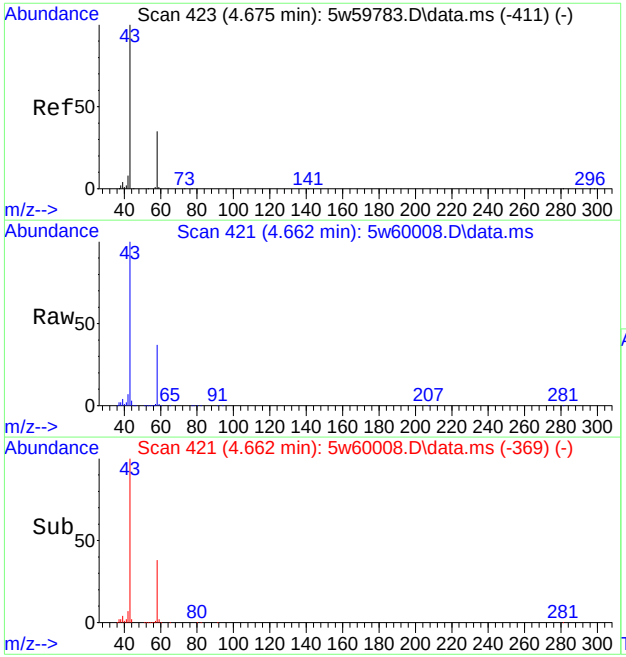


#22
ISOPROPYL ALCOHOL
Concen: 3.13 PPBV
RT: 4.888 min Scan# 458
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 300854

Ion	Ratio	Lower	Upper
45	100		
43	20.7	0.0	47.8
59	4.1	0.0	34.1

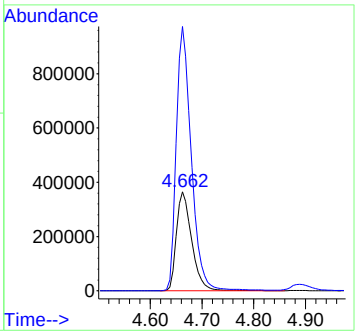


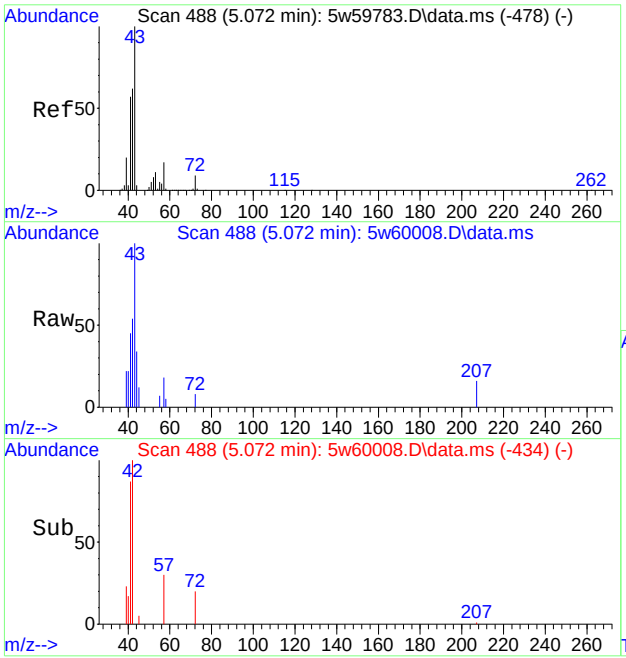


#23
ACETONE
Concen: 39.16 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 58 Resp: 752725

Ion	Ratio	Lower	Upper
58	100		
43	261.3	252.3	312.3

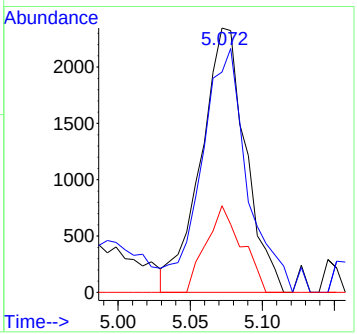


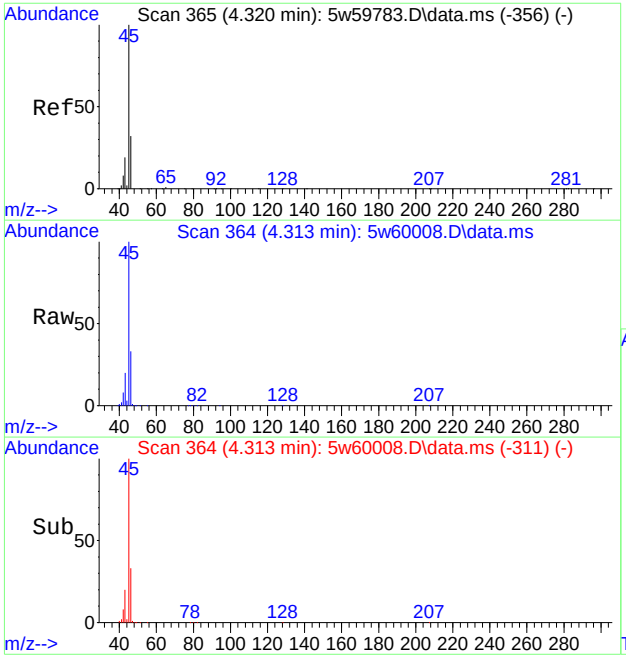


#24
PENTANE
Concen: 0.10 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 42 Resp: 5091

Ion	Ratio	Lower	Upper
42	100		
41	93.8	62.3	122.3
57	26.0	0.0	57.7

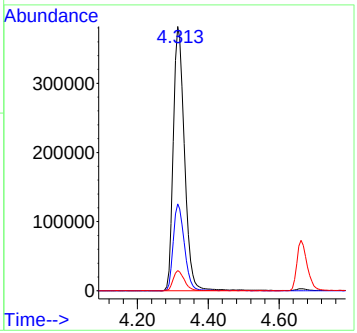


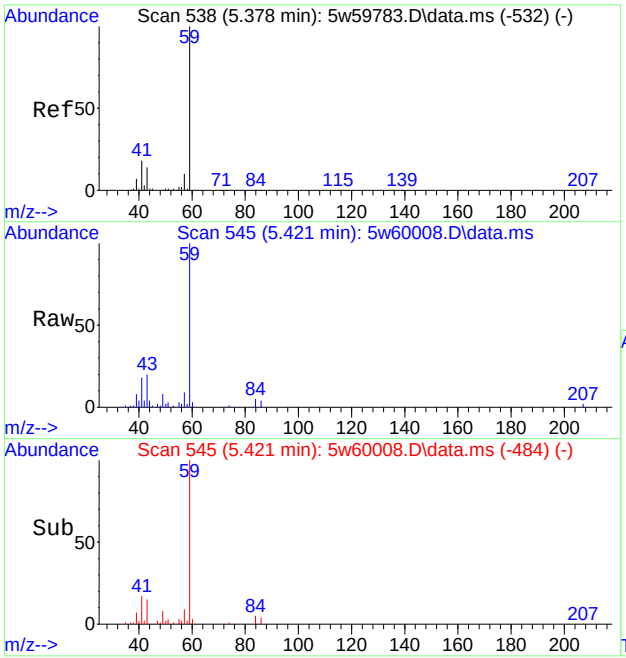


#28
ETHANOL
Concen: 52.34 PPBV
RT: 4.313 min Scan# 364
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 842689

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	7.8	0.0	38.5

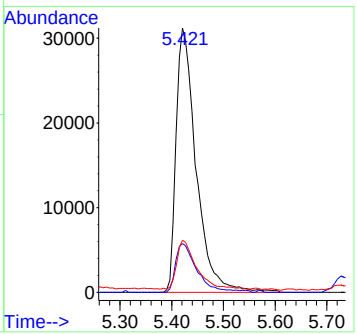


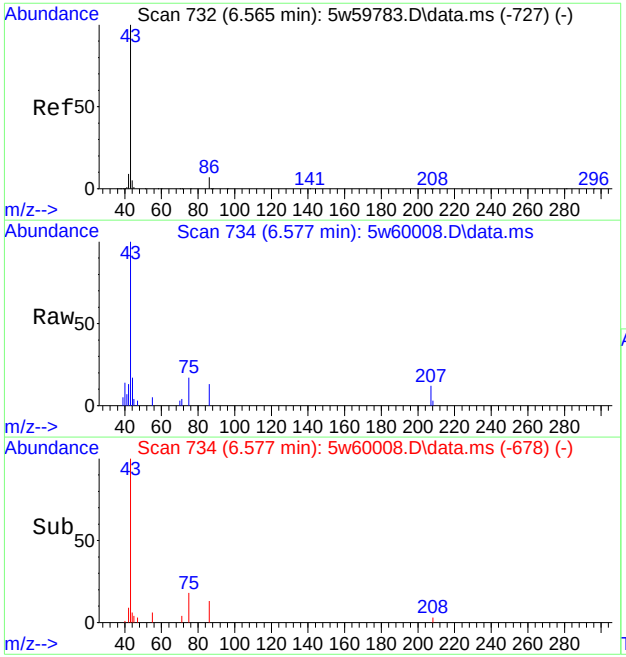


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.86 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 59 Resp: 84382

Ion	Ratio	Lower	Upper
59	100		
41	19.7	0.0	49.3
43	18.9	0.0	44.1

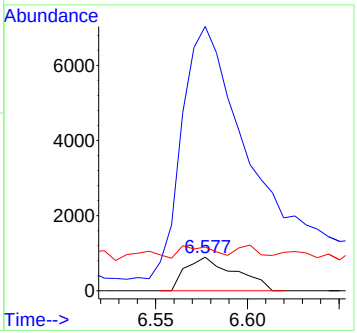


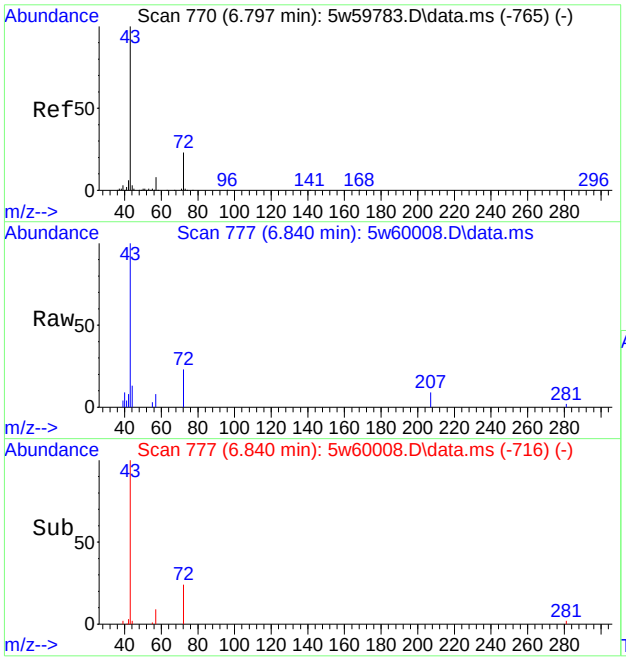


#39
VINYL ACETATE
Concen: 0.21 PPBV
RT: 6.577 min Scan# 734
Delta R.T. 0.012 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 86 Resp: 1682

Ion	Ratio	Lower	Upper
86	100		
43	1459.6	1379.7	1439.7#
44	24.5	36.9	96.9#

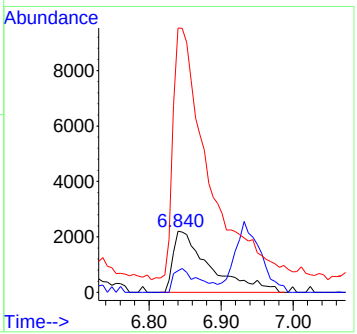


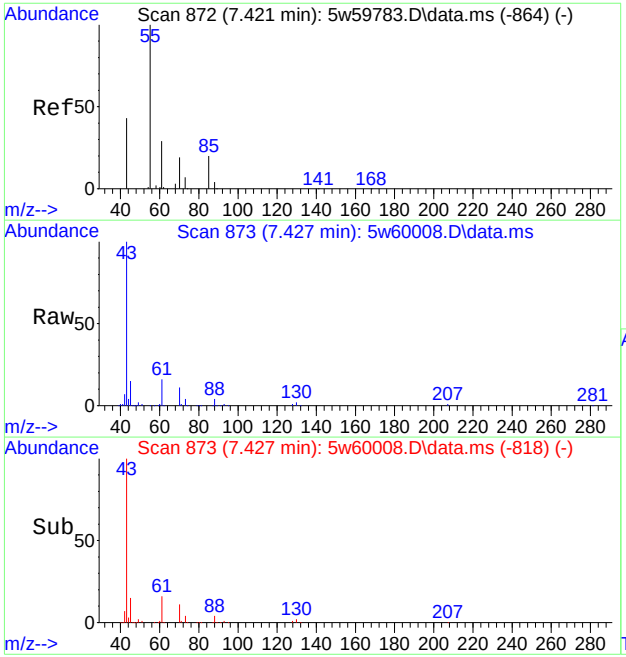


#41
METHYL ETHYL KETONE
Concen: 0.42 PPBV
RT: 6.840 min Scan# 777
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 72 Resp: 7867

Ion	Ratio	Lower	Upper
72	100		
57	35.4	4.8	64.8
43	431.7	415.9	475.9

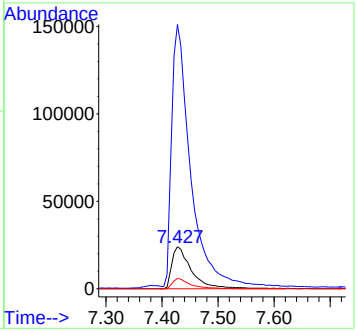


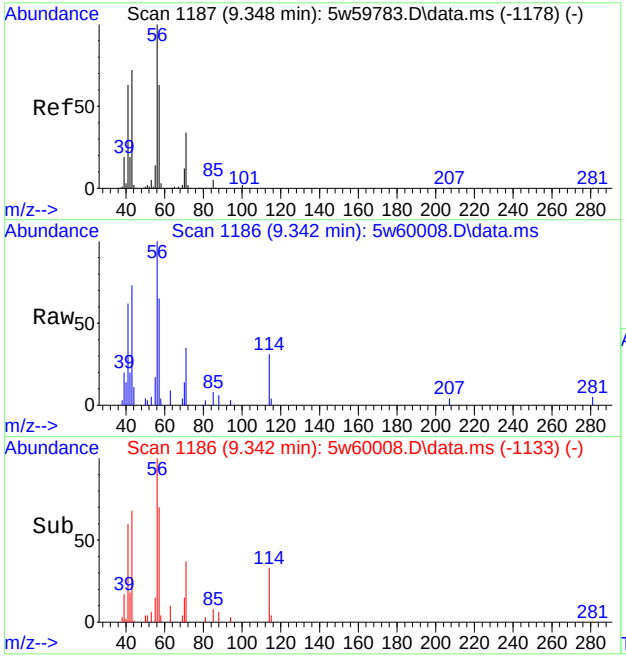


#44
ETHYL ACETATE
Concen: 4.07 PPBV
RT: 7.427 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 61 Resp: 58928

Ion	Ratio	Lower	Upper
61	100		
43	606.5	560.5	620.5
88	22.1	4.5	64.5

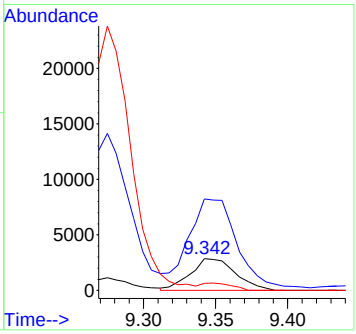


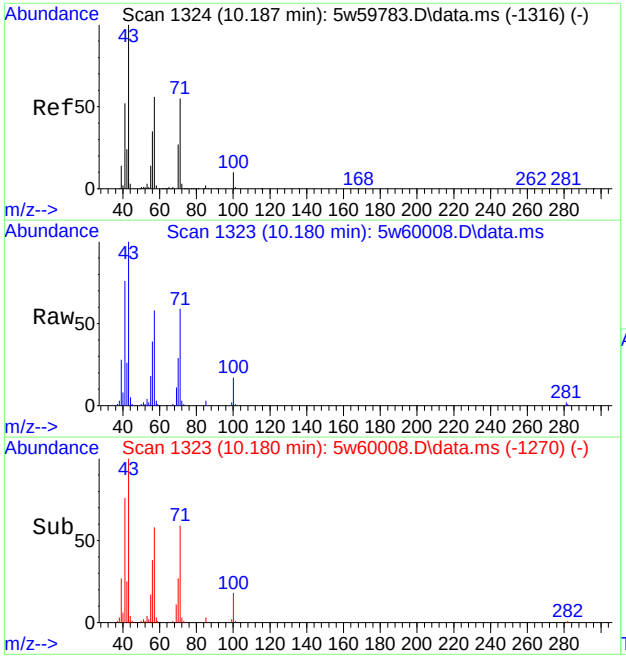


#54
2,3-DIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 71 Resp: 6241

Ion	Ratio	Lower	Upper
71	100		
56	306.2	264.6	324.6
85	0.0	0.0	45.3

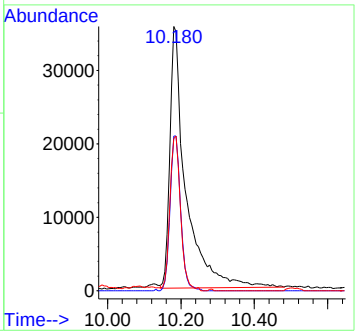


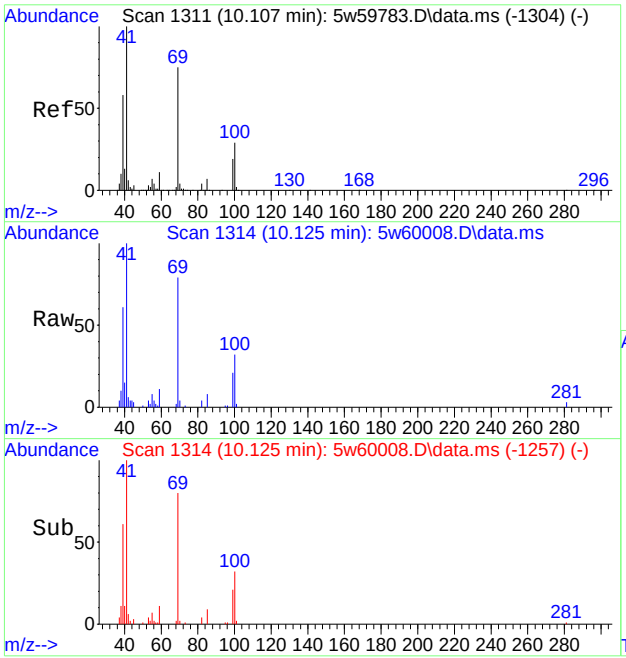


#62
HEPTANE
Concen: 1.28 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 107980

Ion	Ratio	Lower	Upper
43	100		
71	39.3	24.5	84.5
57	39.6	26.2	86.2

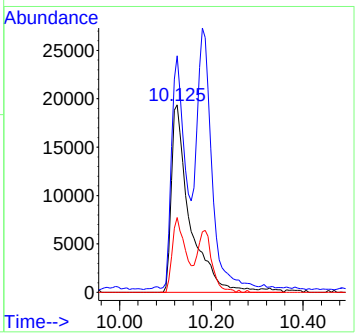


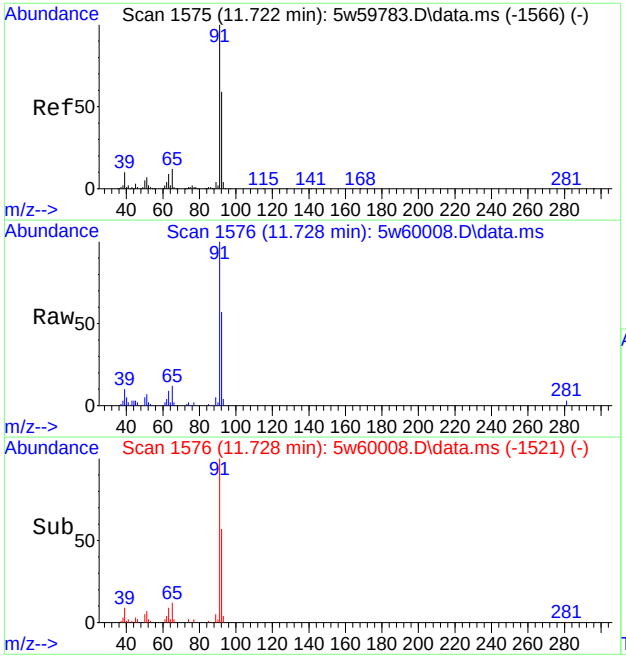


#63
METHYL METHACRYLATE
Concen: 1.15 PPBV
RT: 10.125 min Scan# 1314
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 69 Resp: 55112

Ion	Ratio	Lower	Upper
69	100		
41	90.0	95.3	155.3#
100	29.5	6.3	66.3

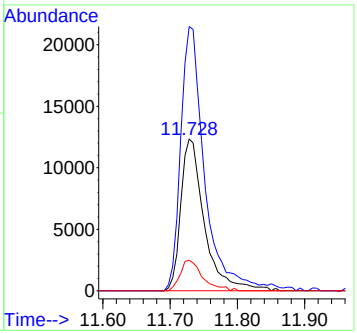


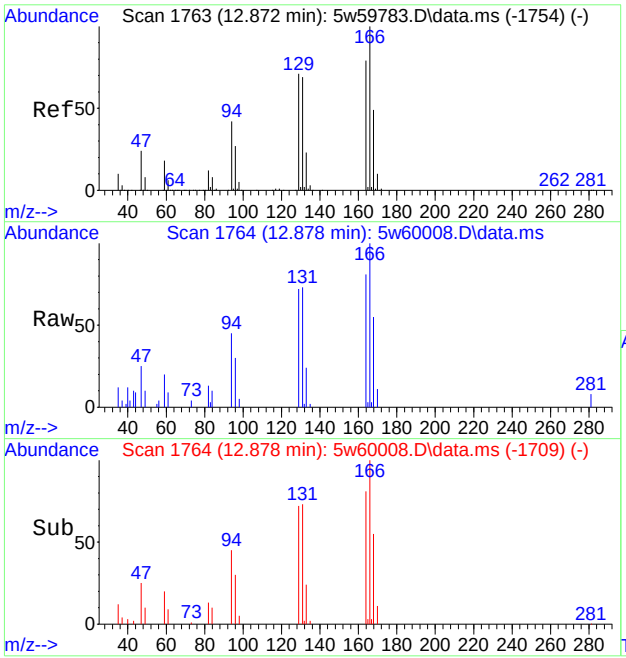


#66
TOLUENE
Concen: 0.28 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 92 Resp: 30163

Ion	Ratio	Lower	Upper
92	100		
91	177.8	140.1	200.1
65	19.2	0.0	53.1

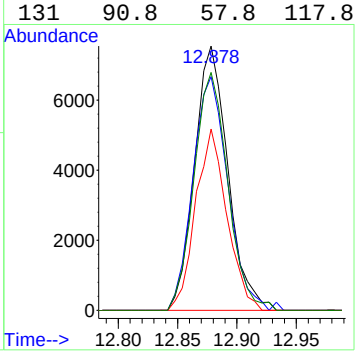


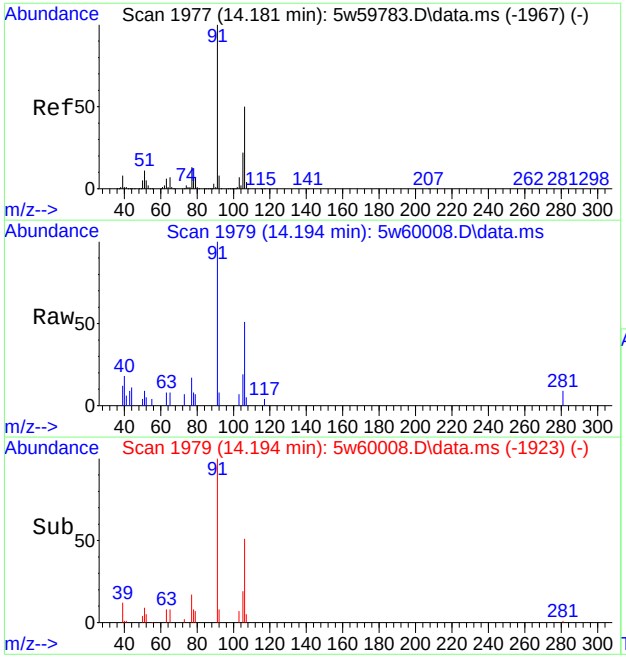


#73
TETRACHLOROETHYLENE
Concen: 0.20 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:164 Resp: 14795

Ion	Ratio	Lower	Upper
164	100		
129	92.6	59.7	119.7
168	64.1	32.2	92.2
131	90.8	57.8	117.8

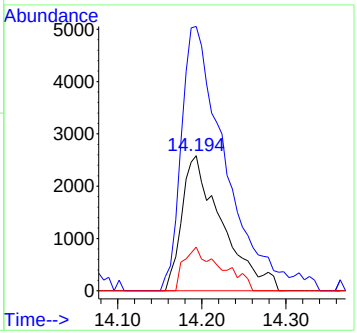




#80
m,p-XYLENE
Concen: 0.10 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:106 Resp: 8586

Ion	Ratio	Lower	Upper
106	100		
91	195.5	171.0	231.0
77	32.4	0.0	56.7



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60041.D
Acq On : 25 Nov 2025 5:18 pm
Operator : benk
Sample : je23836-1dup Inst : GCMS5W
Misc : MS99497,V5W2302,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 27 01:00:00 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

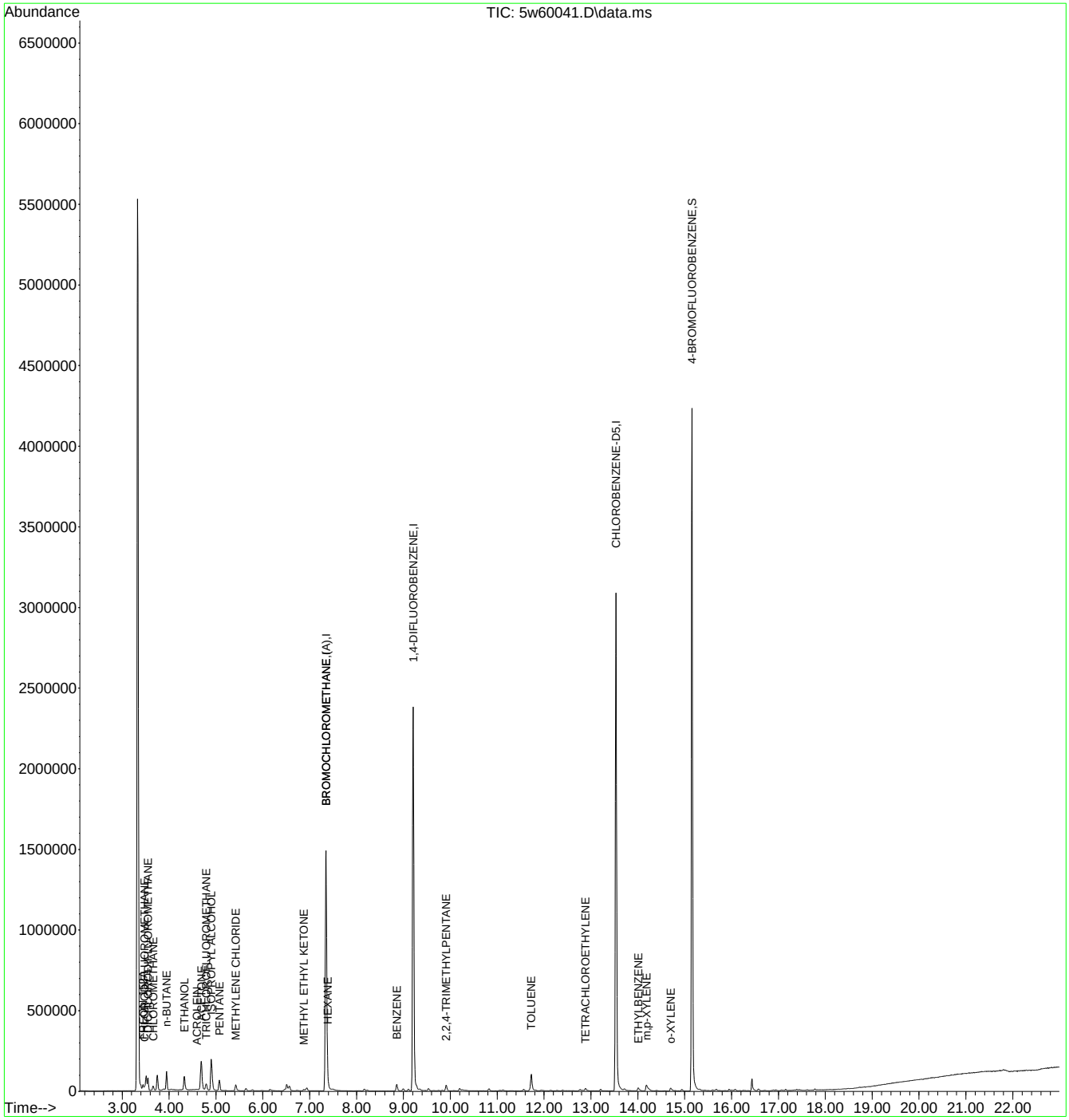
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	486599	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2151791	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1070377	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	487286	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1416491	10.59	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 105.90%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	10901	0.3021	PPBV	81
4) CHLORODIFLUOROMETHANE	3.476	67	4620	0.3060	PPBV	87
6) DICHLORODIFLUOROMETHANE	3.549	85	70065	0.5031	PPBV	100
10) CHLOROMETHANE	3.659	52	7995	0.5228	PPBV	91
13) n-BUTANE	3.947	43	99285	2.1409	PPBV	97
18) ACROLEIN	4.595	56	2698	0.1792	PPBV	93
21) TRICHLOROFLUOROMETHANE	4.791	101	32626	0.2743	PPBV	99
22) ISOPROPYL ALCOHOL	4.901	45	303427	3.1799	PPBV	96
23) ACETONE	4.693	58	67636	3.5440	PPBV	96
24) PENTANE	5.072	42	28098	0.5668	PPBV	96
28) ETHANOL	4.326	45	111732	6.9893	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	14831	0.3038	PPBV	92
38) HEXANE	7.385	57	23013	0.2962	PPBV #	79
41) METHYL ETHYL KETONE	6.877	72	5153	0.2742	PPBV #	68
52) BENZENE	8.859	78	43878	0.3044	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	9.911	57	35896	0.1573	PPBV	92
66) TOLUENE	11.728	92	58477	0.5427	PPBV	95
73) TETRACHLOROETHYLENE	12.879	164	4049	0.0555	PPBV	94
79) ETHYLBENZENE	14.010	91	24325	0.1186	PPBV	97
80) m,p-XYLENE	14.188	106	22444	0.2776	PPBV	95
81) o-XYLENE	14.702	106	7886	0.1042	PPBV	96

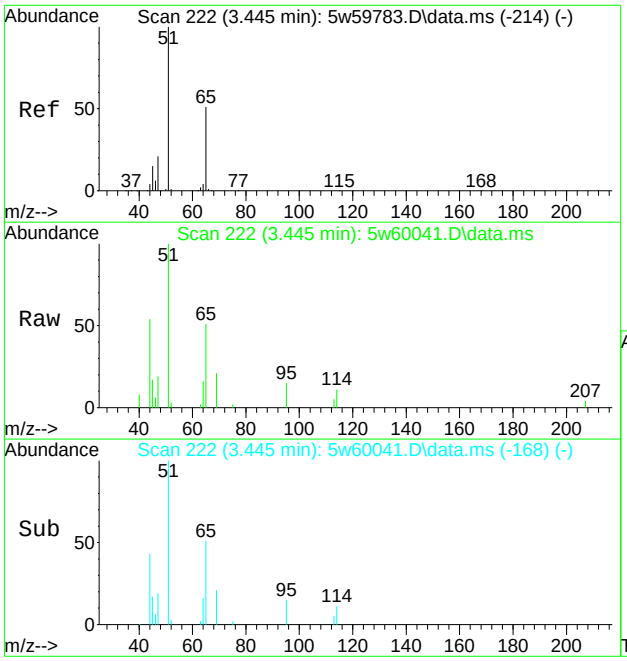
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60041.D
Acq On : 25 Nov 2025 5:18 pm
Operator : benk
Sample : je23836-1dup Inst : GCMS5W
Misc : MS99497,V5W2302,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 27 01:00:00 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

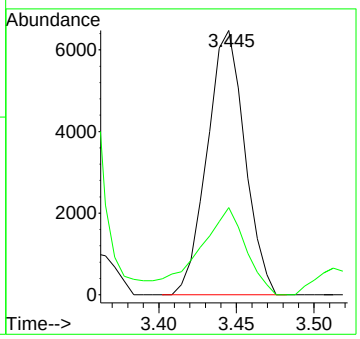


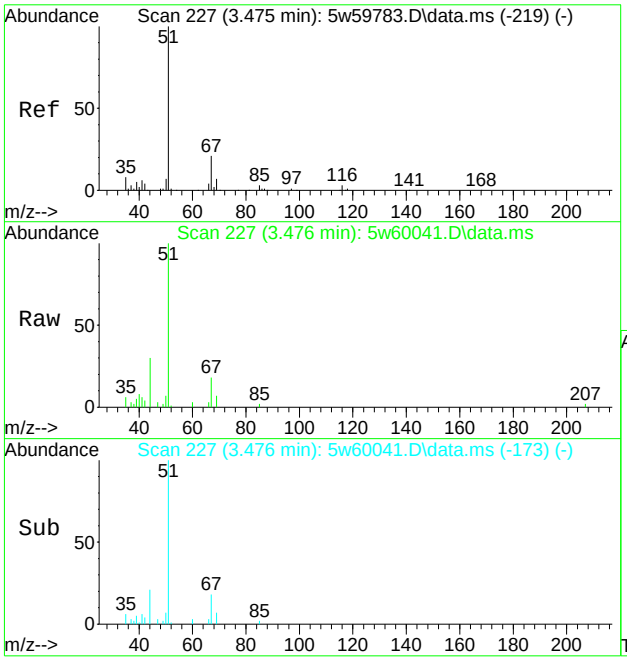


#3
FREON 152A
Concen: 0.3021 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 65 Resp: 10901

Ion	Ratio	Lower	Upper
65	100		
45	40.2	0.0	60.0

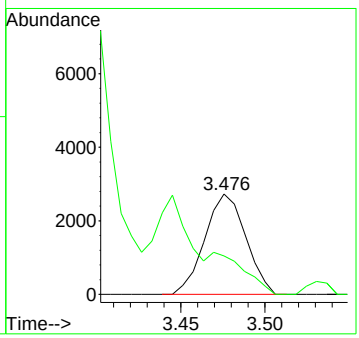


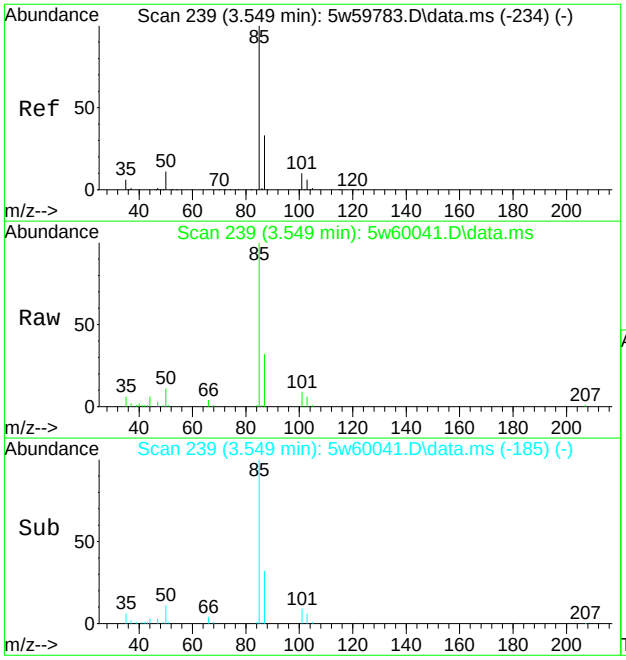


#4
CHLORODIFLUOROMETHANE
Concen: 0.3060 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 67 Resp: 4620

Ion	Ratio	Lower	Upper
67	100		
69	38.4	1.0	61.0

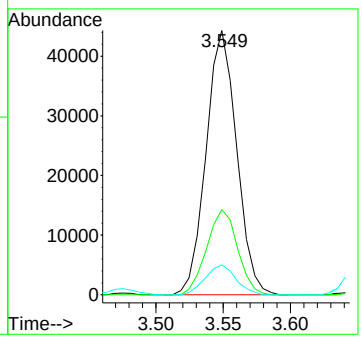


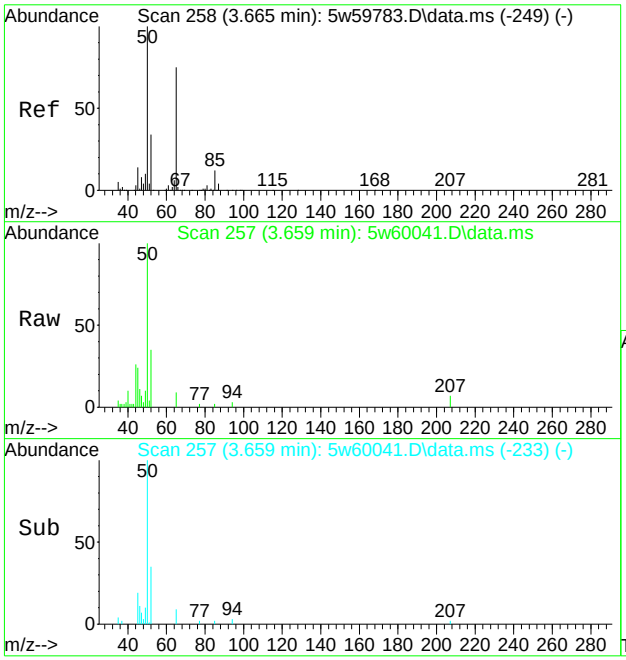


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5031 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 85 Resp: 70065

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	11.3	0.0	41.7

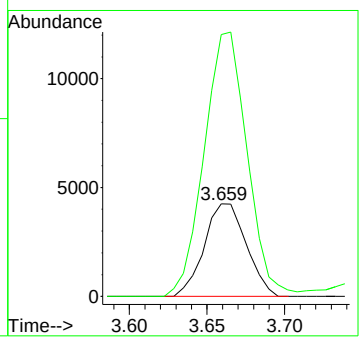


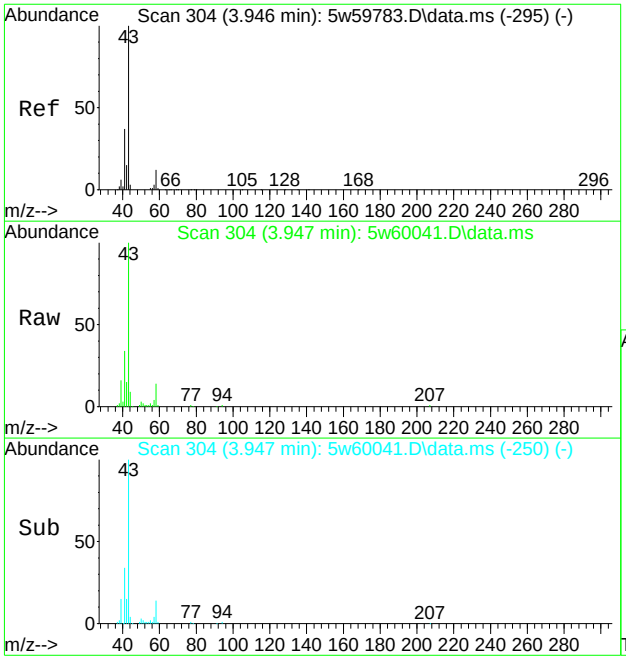


#10
CHLOROMETHANE
Concen: 0.5228 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 52 Resp: 7995

Ion	Ratio	Lower	Upper
52	100		
50	279.5	267.9	327.9

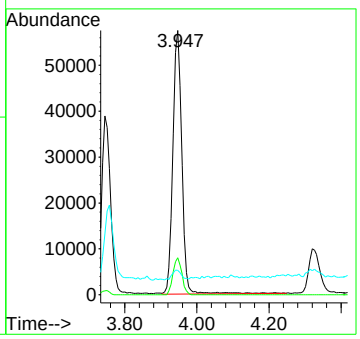


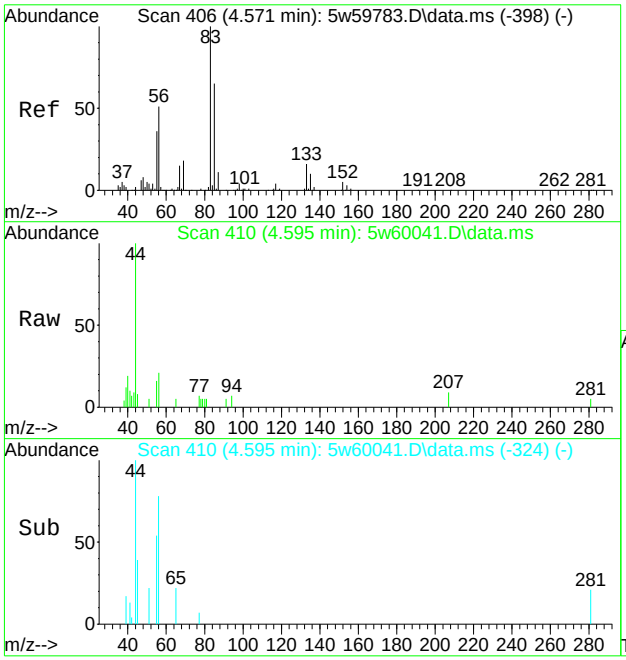


#13
n-BUTANE
Concen: 2.1409 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 43 Resp: 99285

Ion	Ratio	Lower	Upper
43	100		
58	13.9	0.0	42.6
44	3.8	0.0	34.9

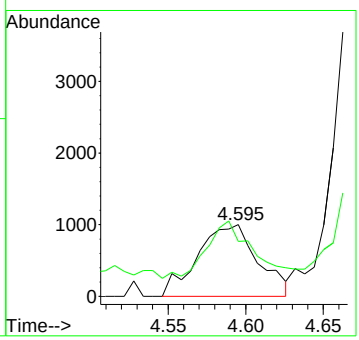


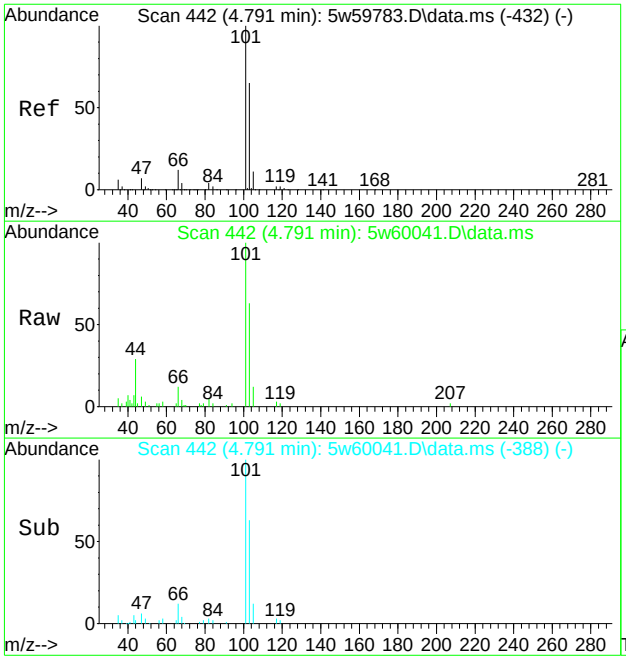


#18
ACROLEIN
Concen: 0.1792 PPBV
RT: 4.595 min Scan# 410
Delta R.T. 0.024 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 56 Resp: 2698

Ion	Ratio	Lower	Upper
56	100		
55	60.9	46.6	86.6

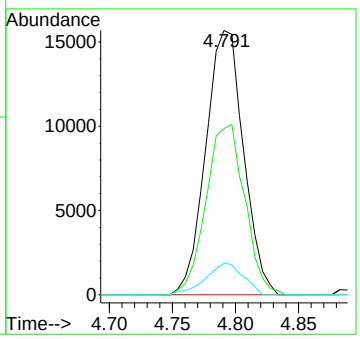


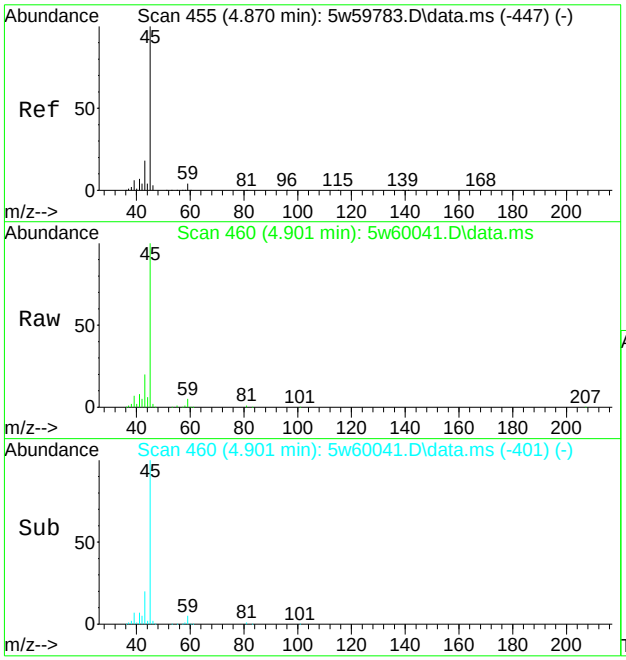


#21
TRICHLOROFLUOROMETHANE
Concen: 0.2743 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion:101 Resp: 32626

Ion	Ratio	Lower	Upper
101	100		
103	65.8	35.0	95.0
105	11.9	0.0	40.7

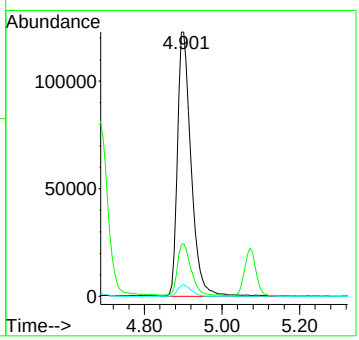


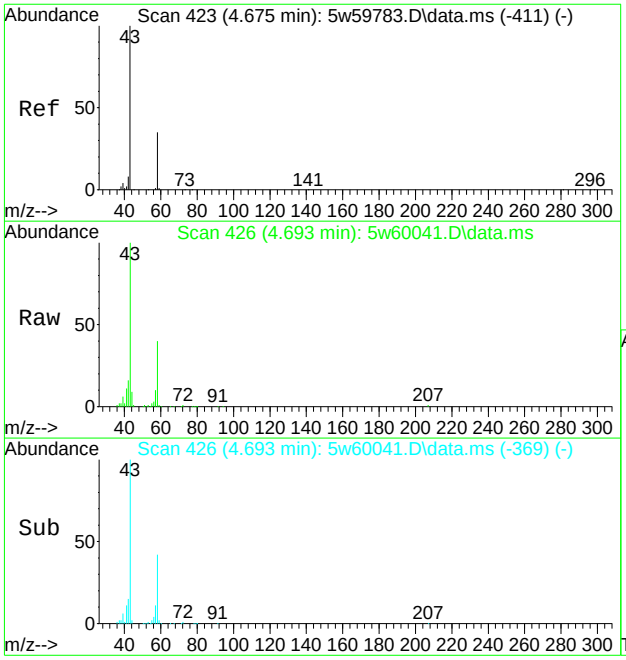


#22
ISOPROPYL ALCOHOL
Concen: 3.1799 PPBV
RT: 4.901 min Scan# 460
Delta R.T. 0.031 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 45 Resp: 303427

Ion	Ratio	Lower	Upper
45	100		
43	20.0	0.0	47.8
59	4.5	0.0	34.1

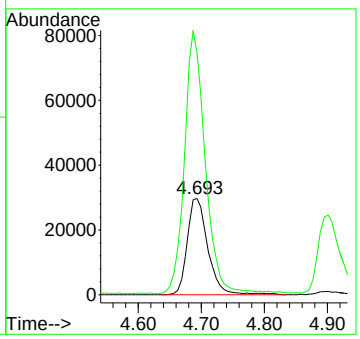


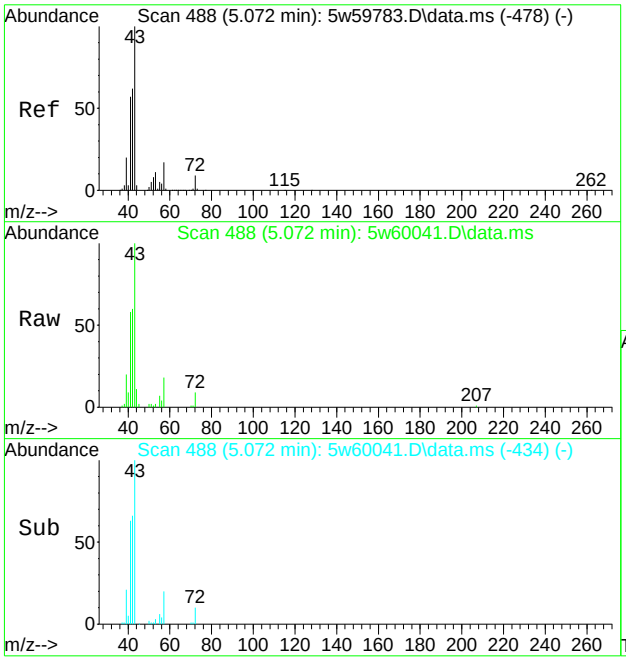


#23
ACETONE
Concen: 3.5440 PPBV
RT: 4.693 min Scan# 426
Delta R.T. 0.018 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 58 Resp: 67636

Ion	Ratio	Lower	Upper
58	100		
43	274.2	252.3	312.3

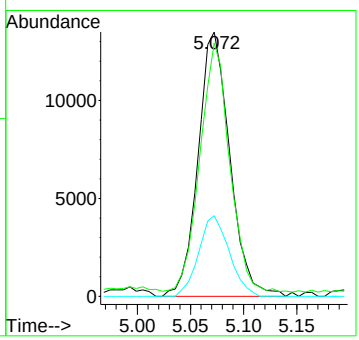


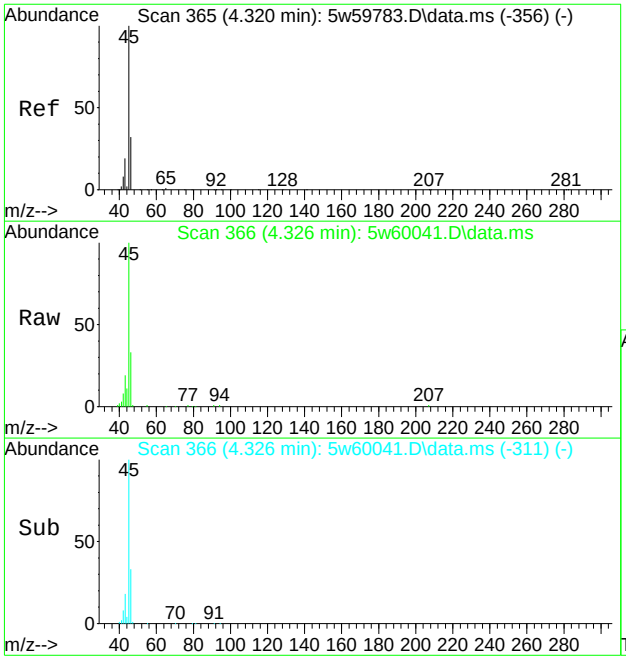


#24
PENTANE
Concen: 0.5668 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 42 Resp: 28098

Ion	Ratio	Lower	Upper
42	100		
41	96.7	62.3	122.3
57	29.3	0.0	57.7

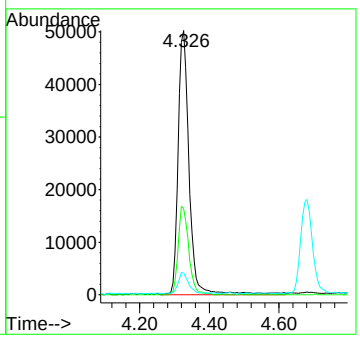


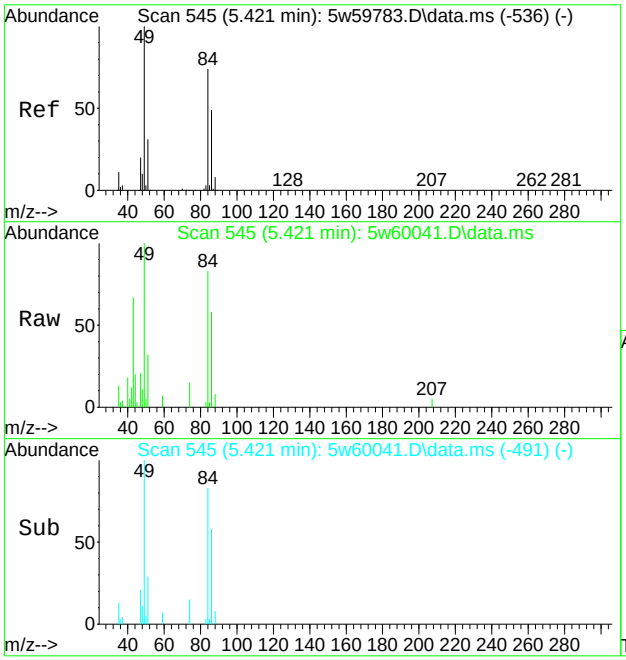


#28
ETHANOL
Concen: 6.9893 PPBV
RT: 4.326 min Scan# 366
Delta R.T. 0.006 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 45 Resp: 111732

Ion	Ratio	Lower	Upper
45	100		
46	31.9	2.0	62.0
42	10.2	0.0	38.5

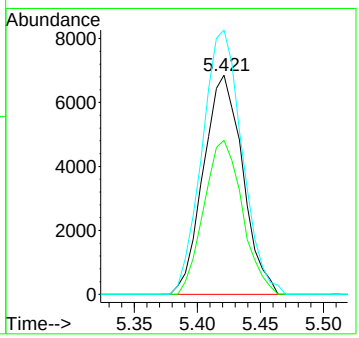


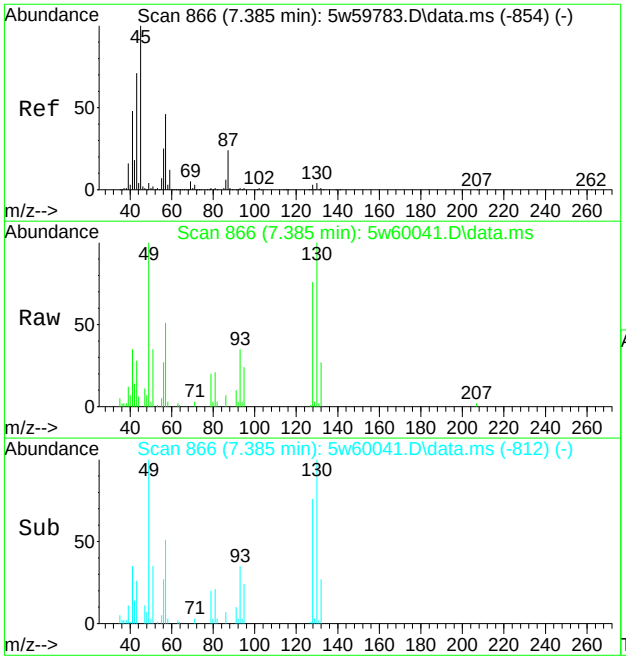


#31
METHYLENE CHLORIDE
Concen: 0.3038 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 84 Resp: 14831

Ion	Ratio	Lower	Upper
84	100		
86	68.6	35.2	95.2
49	122.8	105.3	165.3

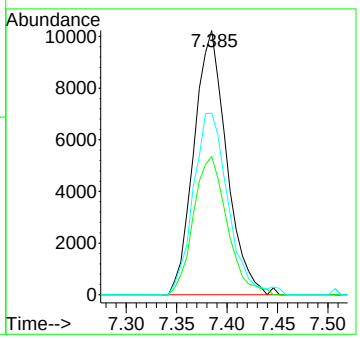


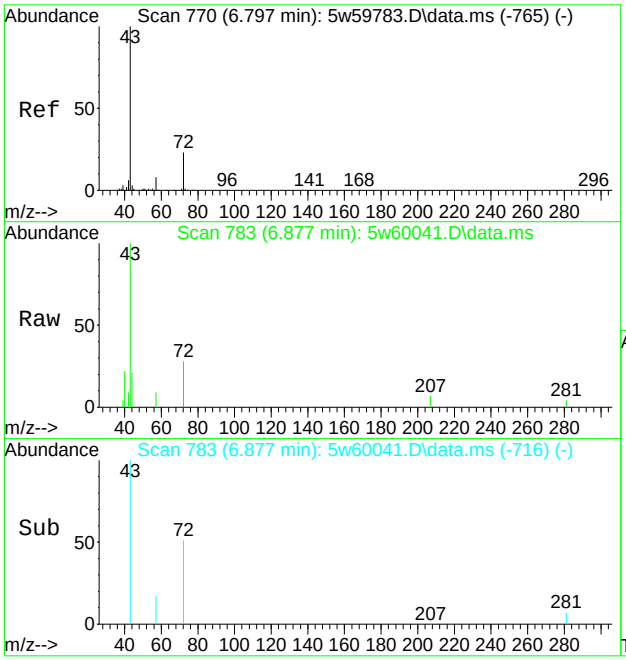


#38
HEXANE
Concen: 0.2962 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 57 Resp: 23013

Ion	Ratio	Lower	Upper
57	100		
56	53.9	25.9	85.9
41	73.5	74.7	134.7#

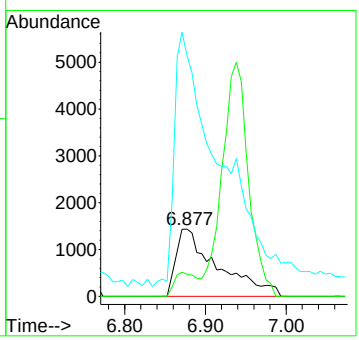


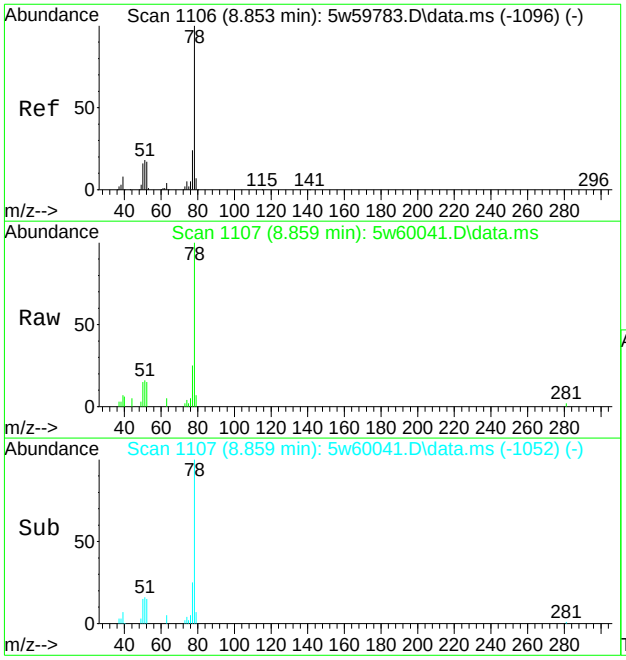


#41
METHYL ETHYL KETONE
Concen: 0.2742 PPBV
RT: 6.877 min Scan# 783
Delta R.T. 0.080 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 72 Resp: 5153

Ion	Ratio	Lower	Upper
72	100		
57	33.0	4.8	64.8
43	357.6	415.9	475.9#

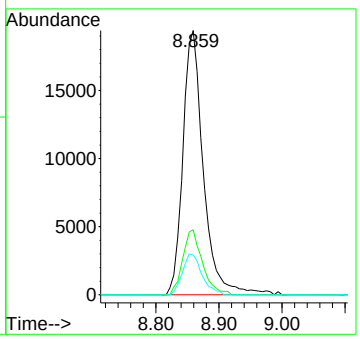


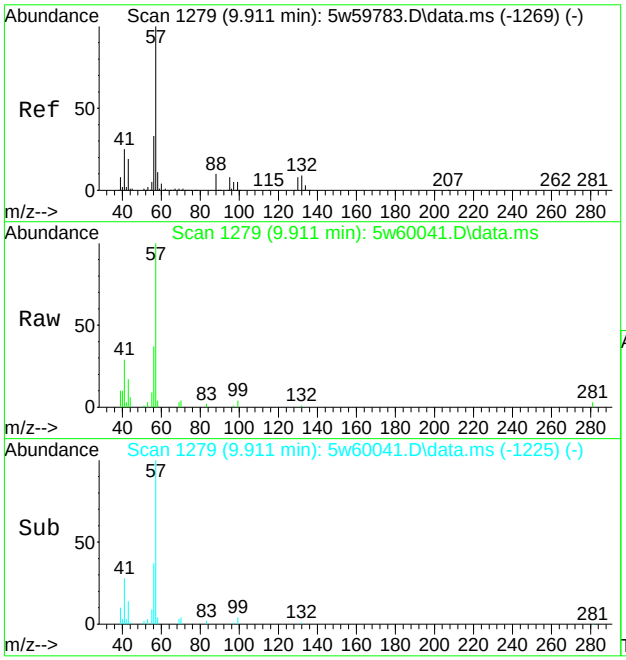


#52
BENZENE
Concen: 0.3044 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 78 Resp: 43878

Ion	Ratio	Lower	Upper
78	100		
77	23.5	0.0	53.8
52	14.8	0.0	46.9

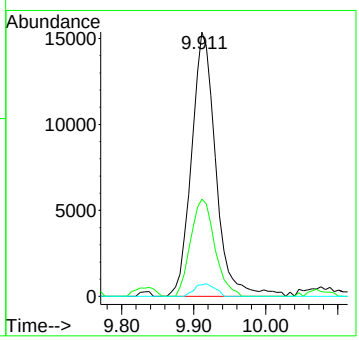


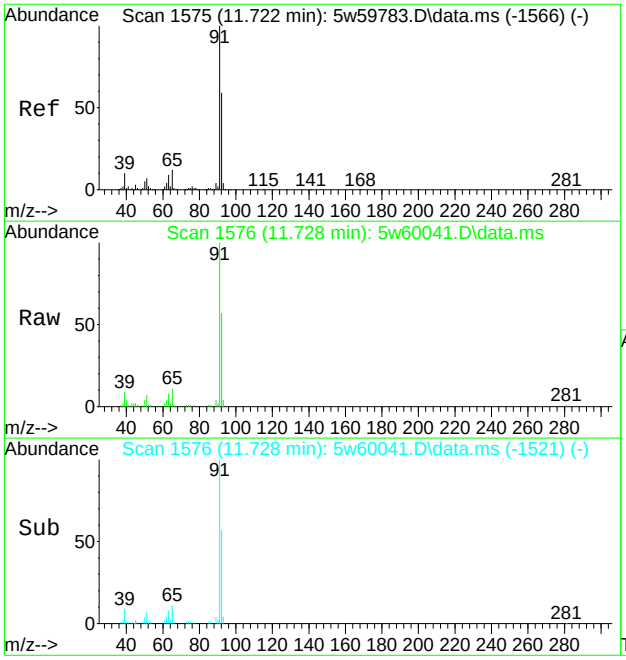


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.1573 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 57 Resp: 35896

Ion	Ratio	Lower	Upper
57	100		
56	36.6	2.5	62.5
99	4.0	0.0	37.3

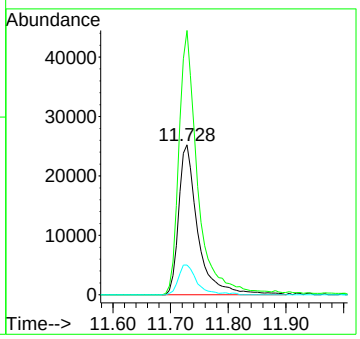


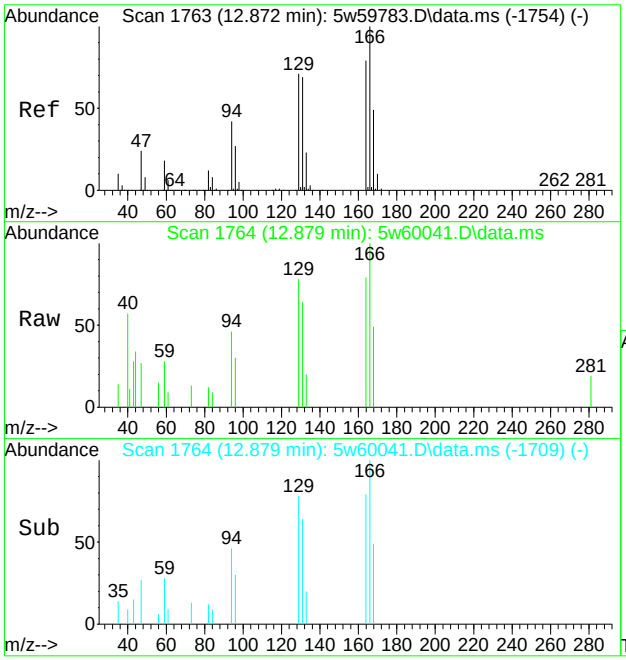


#66
TOLUENE
Concen: 0.5427 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 92 Resp: 58477

Ion	Ratio	Lower	Upper
92	100		
91	176.6	140.1	200.1
65	19.6	0.0	53.1

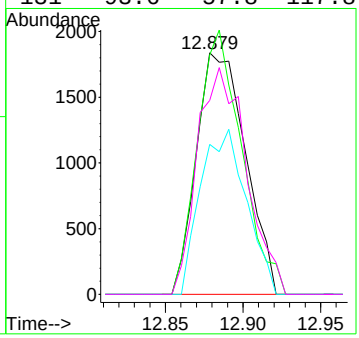


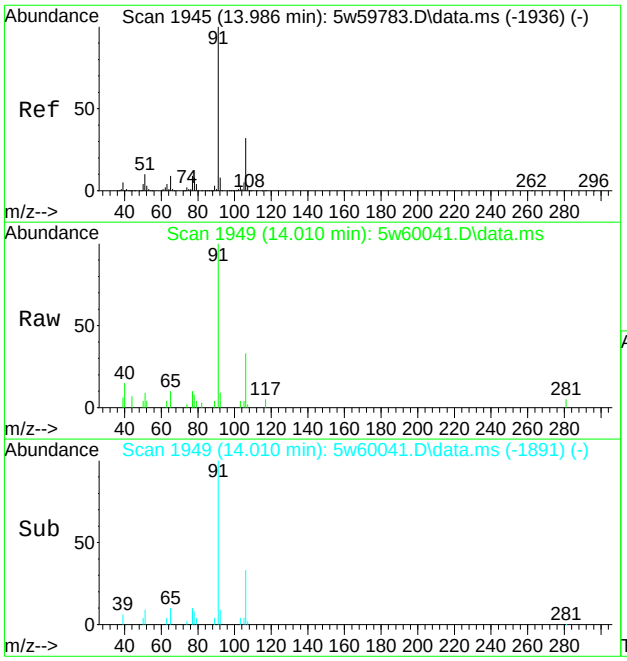


#73
TETRACHLOROETHYLENE
Concen: 0.0555 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.007 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion:164 Resp: 4049

Ion	Ratio	Lower	Upper
164	100		
129	98.1	59.7	119.7
168	63.6	32.2	92.2
131	93.6	57.8	117.8

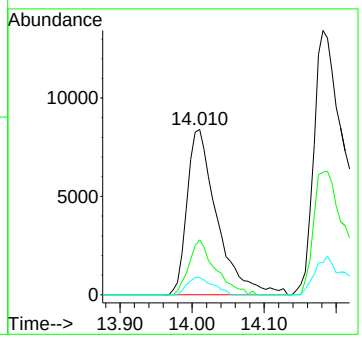


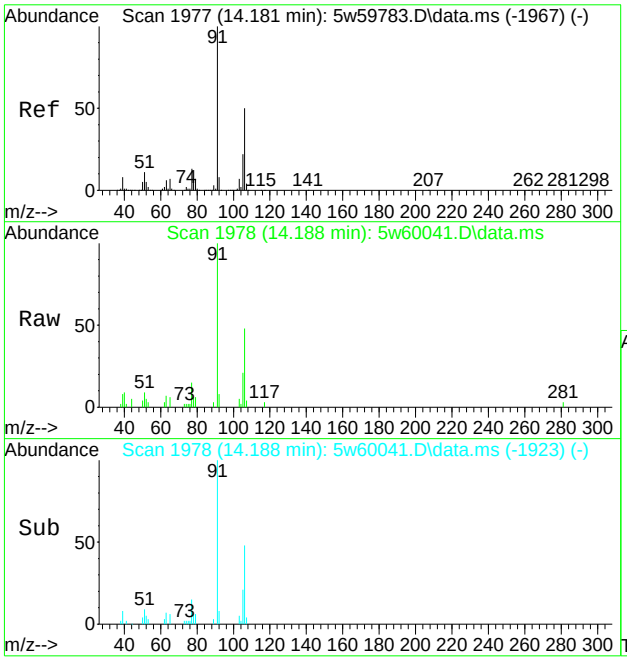


#79
ETHYLBENZENE
Concen: 0.1186 PPBV
RT: 14.010 min Scan# 1949
Delta R.T. 0.024 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 91 Resp: 24325

Ion	Ratio	Lower	Upper
91	100		
106	29.2	1.3	61.3
77	9.0	0.0	38.6

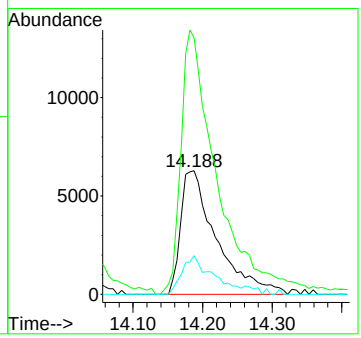


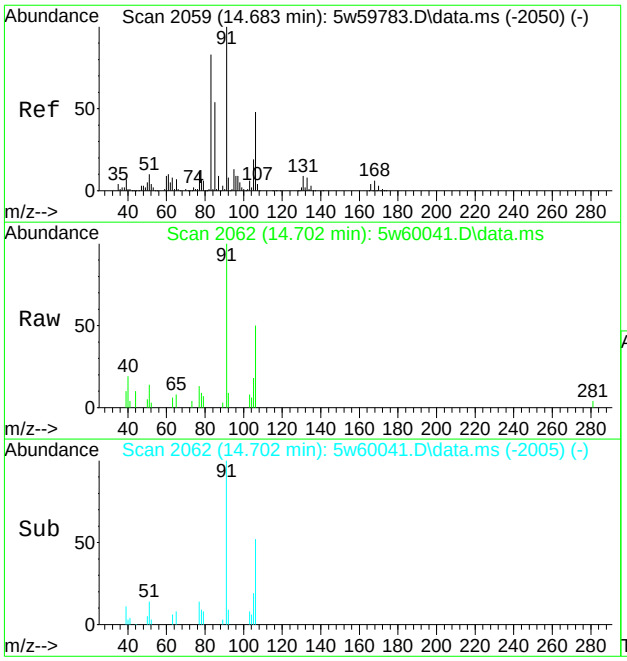


#80
m,p-XYLENE
Concen: 0.2776 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion:106 Resp: 22444

Ion	Ratio	Lower	Upper
106	100		
91	207.6	171.0	231.0
77	31.4	0.0	56.7

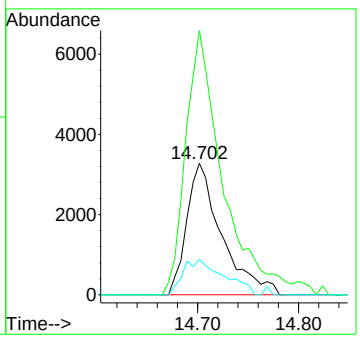




#81
o-XYLENE
Concen: 0.1042 PPBV
RT: 14.702 min Scan# 2062
Delta R.T. 0.019 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion:106 Resp: 7886

Ion	Ratio	Lower	Upper
106	100		
91	216.6	181.6	241.6
77	31.2	0.0	56.6



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

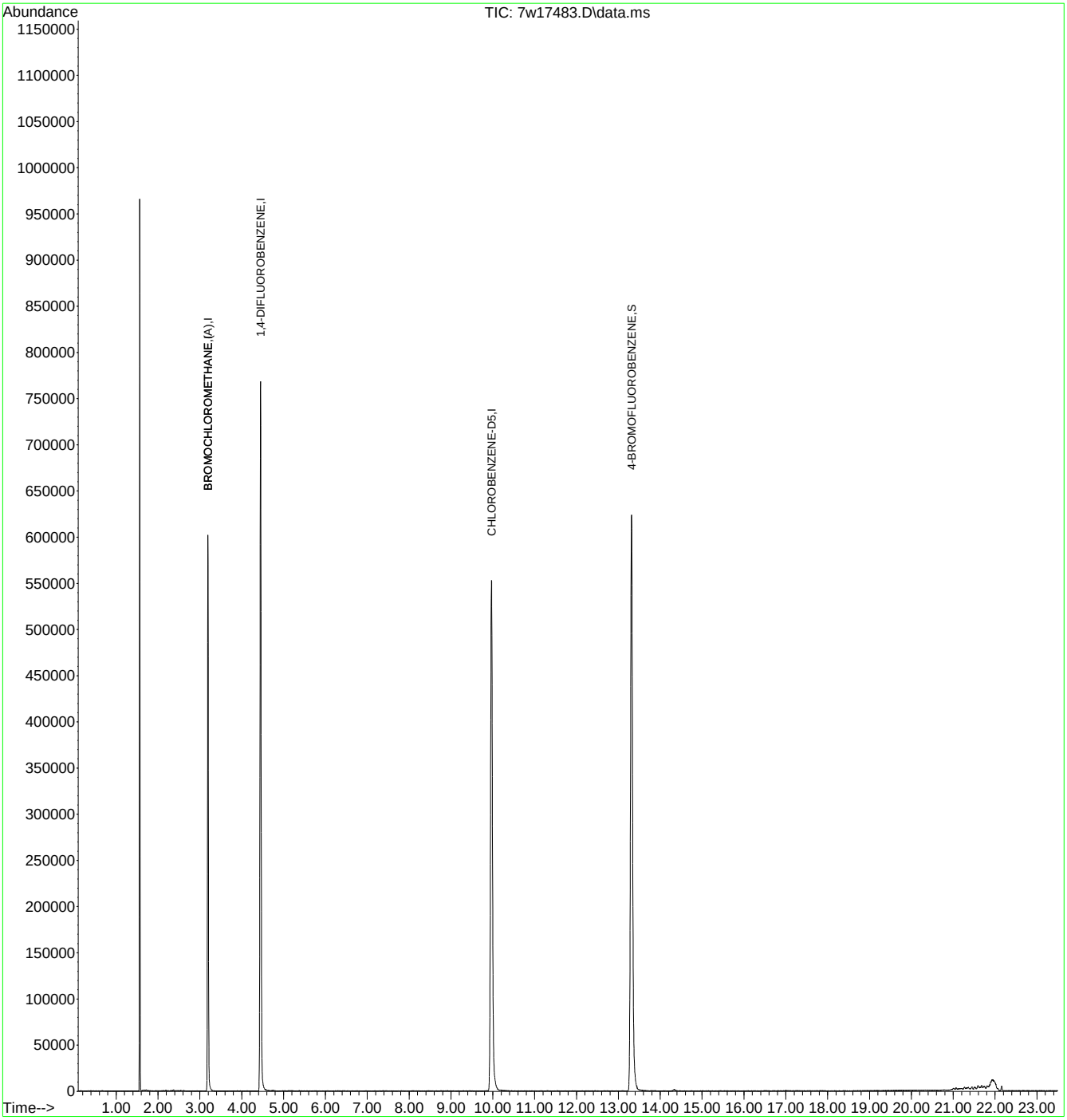
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	122841	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	609530	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	568575	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	122841	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	430277	9.40	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

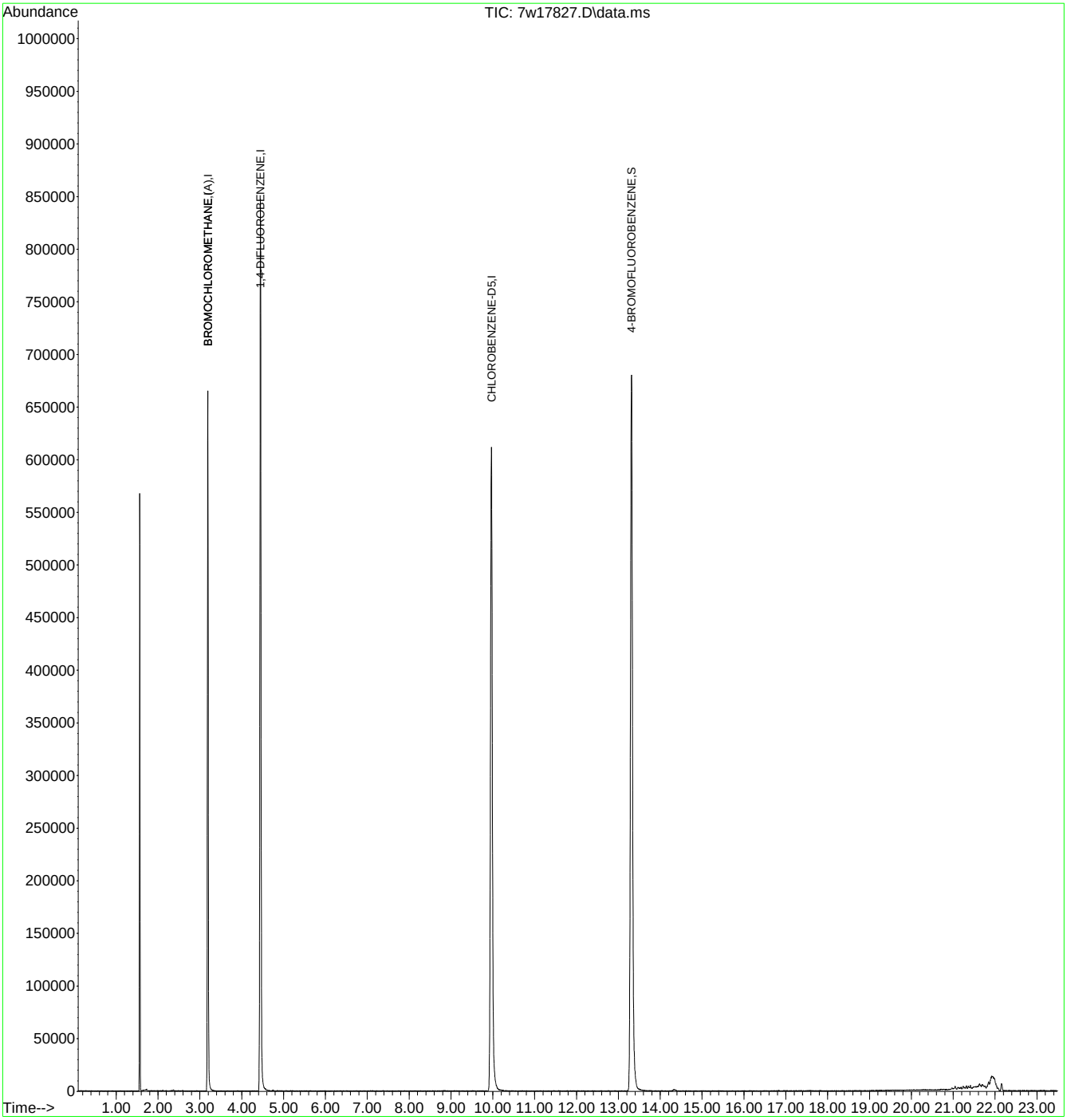
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	133491	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659279	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	611978	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133491	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	469303	9.52	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

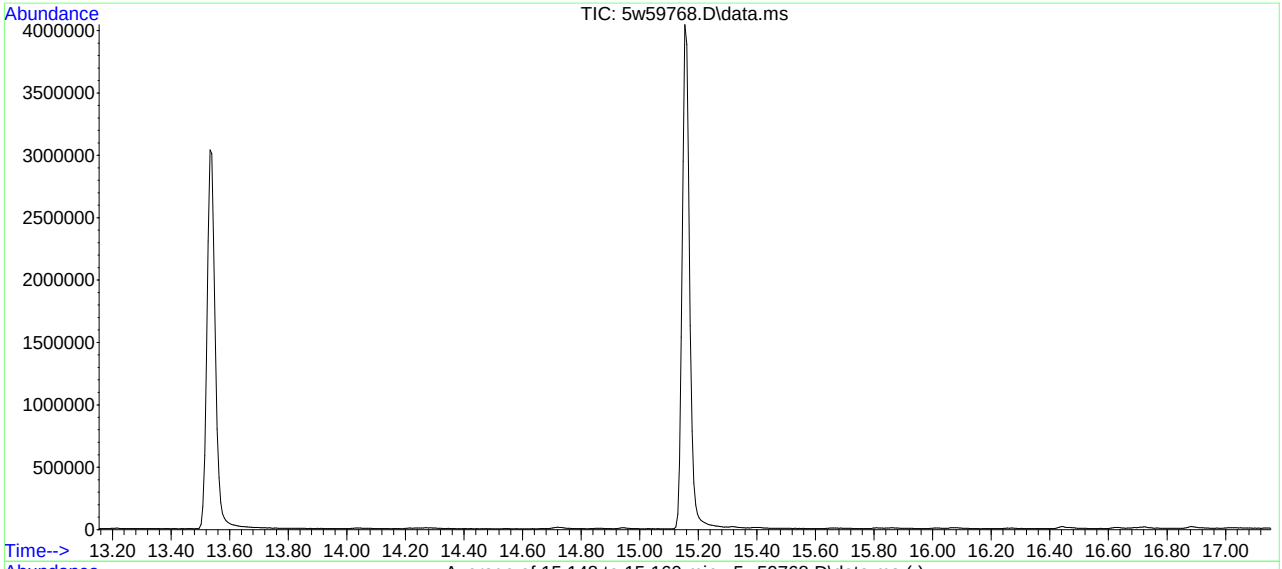
Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



BFB

Data File : C:\msdchem\1\data\5w\5w59768.D Vial: 2
Acq On : 6 Nov 2025 9:59 pm Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5wBFB.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	135749	PASS
75	95	30	66	46.4	334528	PASS
95	95	100	100	100.0	720341	PASS
96	95	5	9	6.9	49469	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.0	662677	PASS
175	174	4	9	7.8	51795	PASS
176	174	93	101	99.2	657579	PASS
177	176	5	9	6.9	45267	PASS

5w59768.D M5wBFB.M Fri Nov 07 21:29:07 2025

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	5545	48.00	3946	61.05	32339	74.05	112597
37.10	30280	49.05	27840	62.10	32435	75.05	334528
38.10	26987	50.10	135749	63.10	24125	76.10	29141
39.10	10667	51.05	41606	64.05	2305	77.00	4066
40.00	348	52.05	1737	67.05	1826	78.00	3098
41.05	175	55.05	2016	68.00	72219	78.90	24720
43.00	450	56.05	10826	69.00	70581	80.00	6986
44.00	3502	57.05	20024	70.00	5326	80.90	25387
45.10	6092	58.05	889	71.10	296	81.95	5504
46.05	426	59.10	145	72.05	3398	82.95	490
47.10	8871	60.00	6445	73.00	28839	86.05	874

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	35085	104.90	1175	118.90	3821	133.90	92
88.00	33645	105.95	3347	121.90	77	134.95	1334
90.95	2907	106.95	762	123.00	102	135.95	160
92.00	19285	109.95	420	123.90	511	136.90	1385
93.00	29085	110.95	751	124.95	264	138.95	431
94.00	80680	111.95	485	125.90	315	139.90	588
95.05	720341	112.90	723	126.95	311	141.00	7227
96.05	49469	114.95	770	127.95	2733	141.90	954
97.05	1483	115.90	2767	128.95	1406	143.00	7195
102.90	330	116.95	4700	129.90	2746	143.95	411
103.95	3663	117.90	2744	130.90	1002	144.95	616

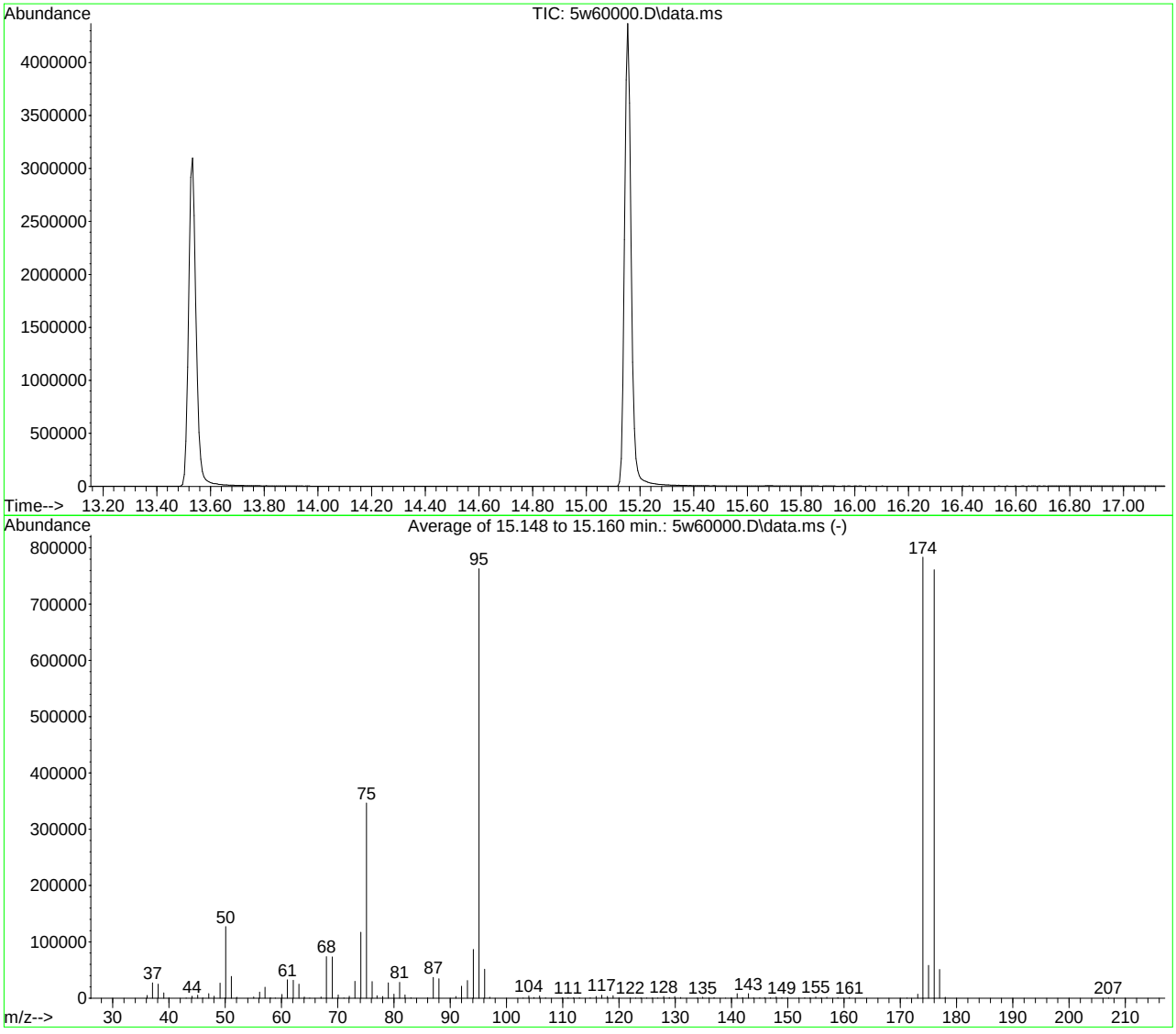
Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.90	1065	158.00	77	177.95	1268		
146.95	543	158.90	800	207.00	73		
147.95	1676	160.95	830	262.10	64		
148.95	564	168.05	273	267.00	88		
149.90	853	169.15	140	296.00	119		
151.90	371	170.10	70				
152.95	529	170.95	154				
153.95	452	174.00	662677				
154.95	1955	175.00	51795				
155.90	102	176.00	657579				
156.95	1271	177.00	45267				

BFB

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60000.D Vial: 1
Acq On : 24 Nov 2025 9:12 am Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	126995	PASS
75	95	30	66	45.5	346987	PASS
95	95	100	100	100.0	763029	PASS
96	95	5	9	6.7	51400	PASS
173	174	0.00	2	0.9	6908	PASS
174	95	50	120	102.7	783595	PASS
175	174	4	9	7.4	58229	PASS
176	174	93	101	97.1	761195	PASS
177	176	5	9	6.7	50824	PASS

5w60000.D M5w2292.M Tue Nov 25 23:08:37 2025

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	4650	49.10	26525	62.10	31869	74.10	117019
37.10	27331	50.10	126995	63.10	24912	75.10	346987
38.10	24979	51.10	38837	64.05	2223	76.10	29517
39.10	9324	52.05	1658	65.00	241	77.00	4337
40.00	204	55.05	1920	67.05	1906	78.00	3156
43.05	281	56.10	10853	68.00	73867	79.00	27331
44.10	3527	57.10	19475	69.05	73197	80.00	7302
45.10	5492	58.05	758	70.10	5545	81.00	28117
46.05	417	58.90	105	71.10	91	81.95	5771
47.10	8187	60.10	6537	72.05	3589	83.00	606
48.05	3627	61.05	32525	73.05	29765	86.00	841

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	36965	104.90	1240	118.95	4253	130.95	1208
88.00	34704	105.90	3734	120.00	67	133.90	164
91.00	3137	106.95	790	122.00	69	134.90	1543
92.00	21184	109.90	548	122.95	268	136.00	273
93.05	31387	110.95	694	123.90	547	136.90	1399
94.10	86395	111.90	555	124.95	239	138.95	311
95.10	763029	112.95	714	125.95	349	139.95	560
96.10	51400	114.90	873	126.90	319	141.00	7918
97.05	1522	115.95	3019	127.95	3130	141.95	985
102.95	392	116.95	5208	128.95	1381	143.00	8168
103.95	3865	117.95	3230	129.90	3066	143.90	507

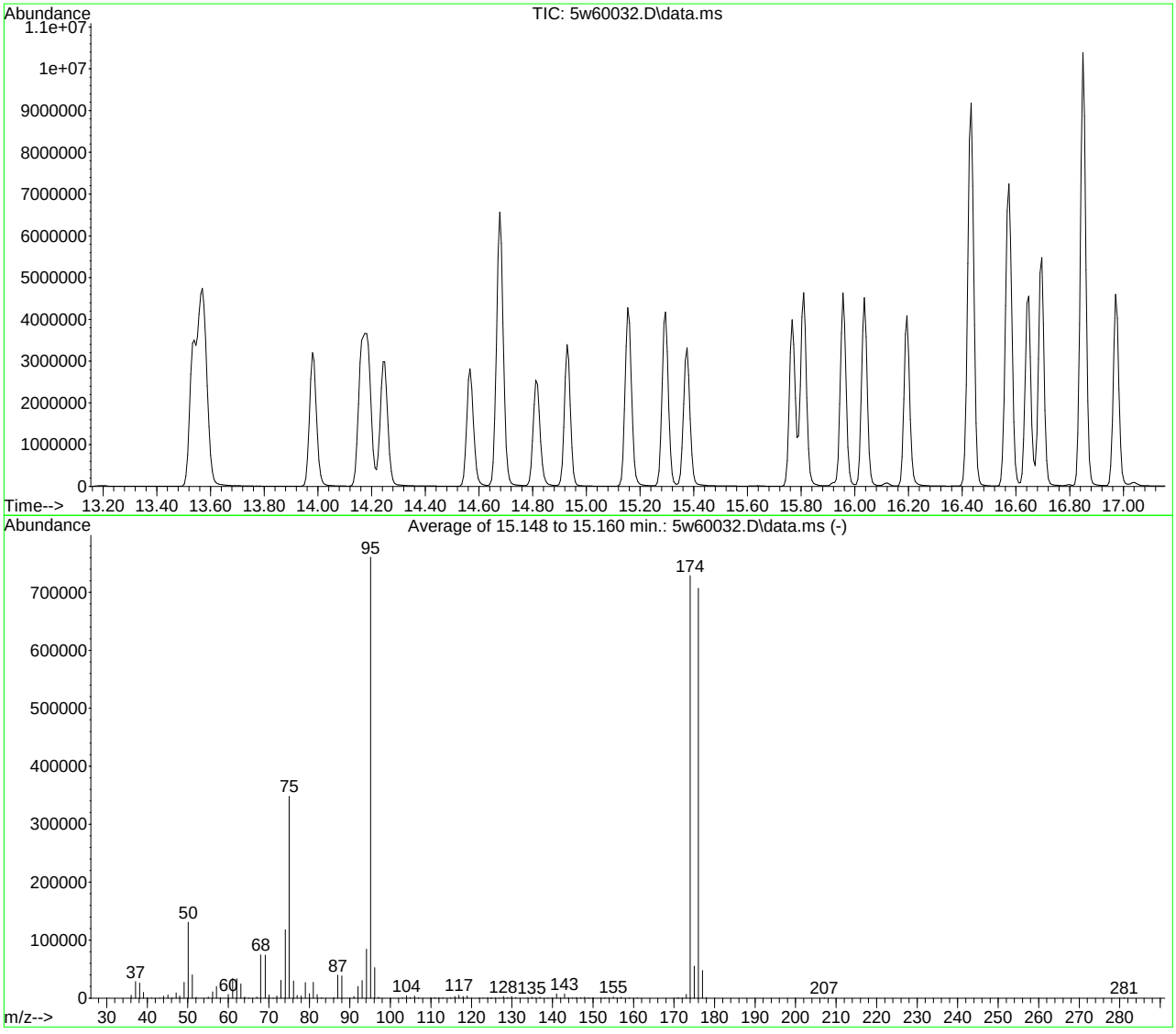
Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.00	756	156.95	1491				
145.90	1168	158.90	960				
146.95	496	160.95	1022				
147.95	2087	171.20	121				
148.95	494	173.10	6908				
149.95	844	174.00	783595				
151.95	343	175.00	58229				
153.00	621	176.00	761195				
153.95	558	177.00	50824				
154.95	2182	178.00	1438				
155.95	294	207.00	83				

BFB

Data File : X:\Dayton VOA GCMS\C...025\V5W2302\5w60032.D Vial: 4
Acq On : 25 Nov 2025 10:05 am Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	130963	PASS
75	95	30	66	45.8	348164	PASS
95	95	100	100	100.0	760597	PASS
96	95	5	9	6.9	52472	PASS
173	174	0.00	2	0.9	6427	PASS
174	95	50	120	95.8	728939	PASS
175	174	4	9	7.6	55245	PASS
176	174	93	101	97.0	707051	PASS
177	176	5	9	6.8	47832	PASS

5w60032.D M5w2292.M Thu Nov 27 00:37:19 2025

Average of 15.148 to 15.160 min.: 5w60032.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	5187	48.00	3888	62.10	33403	74.10	118219
37.10	28643	49.10	27469	63.10	24717	75.05	348164
38.10	25776	50.10	130963	64.05	2159	76.10	29680
39.05	10117	51.10	40197	65.05	354	77.00	4673
40.00	384	52.10	1776	67.05	1959	78.00	3696
41.10	139	55.05	2041	68.00	74584	79.00	26968
43.05	203	56.10	10779	69.10	74392	80.00	7600
44.05	3578	57.10	20136	70.05	5682	81.00	27432
45.10	5654	58.05	859	71.10	244	81.95	6133
46.15	435	60.00	6646	72.00	3759	83.00	910
47.10	9067	61.05	34045	73.00	30840	86.05	948

Average of 15.148 to 15.160 min.: 5w60032.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	39568	104.90	1285	118.95	3953	130.95	1143
88.00	38456	105.95	3745	121.90	68	133.90	137
91.00	2917	106.95	813	122.90	245	134.95	1366
92.00	20312	109.95	528	123.95	595	135.90	173
93.00	30419	110.95	728	124.80	113	136.90	1387
94.10	84405	111.95	645	125.00	112	138.95	327
95.10	760597	112.90	703	125.95	352	139.95	496
96.10	52472	114.90	848	126.90	258	141.00	7492
97.05	1495	115.90	2910	127.90	2878	141.95	889
103.00	573	116.95	4996	128.90	1322	143.00	7543
104.00	3821	117.95	2959	129.95	2786	143.95	498

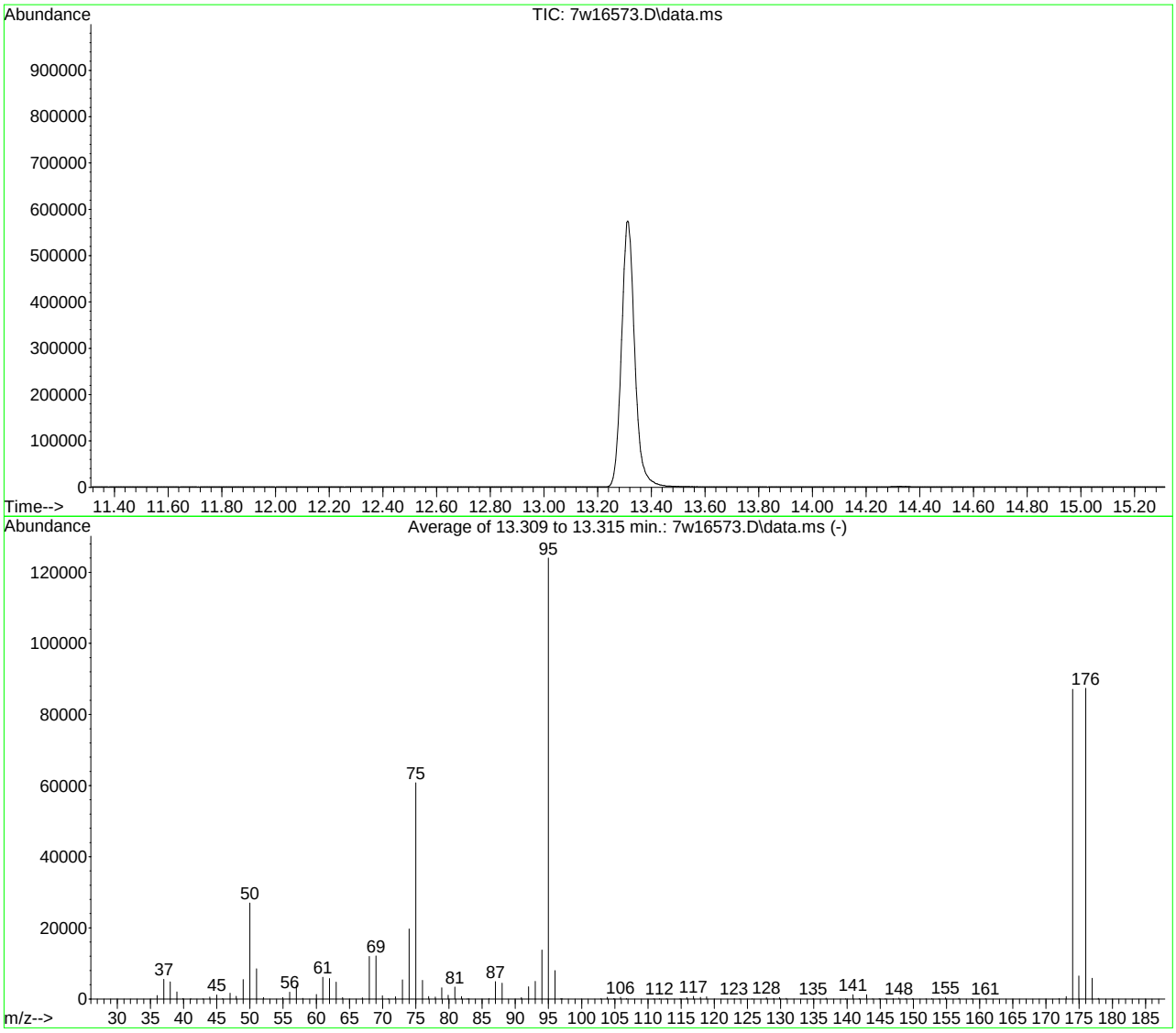
Average of 15.148 to 15.160 min.: 5w60032.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.95	635	156.95	1393	178.00	1247		
145.90	1164	158.95	819	207.05	233		
146.95	494	160.90	869	281.10	67		
147.95	1742	170.90	88				
148.95	528	171.10	144				
149.95	925	172.10	366				
151.95	348	173.05	6427				
152.95	579	174.00	728939				
153.95	461	175.00	55245				
155.00	2002	176.00	707051				
155.95	256	177.00	47832				

BFB

Data File : C:\msdchem\1\data\GCMS7W\7w16573.D Vial: 1
Acq On : 7 Aug 2025 2:05 am Operator: benk
Sample : bfb Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7wbfb.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.8	26979	PASS
75	95	30	66	49.0	60811	PASS
95	95	100	100	100.0	123992	PASS
96	95	5	9	6.4	7953	PASS
173	174	0.00	2	0.8	724	PASS
174	95	50	120	70.2	87088	PASS
175	174	4	9	7.5	6502	PASS
176	174	93	101	100.3	87355	PASS
177	176	5	9	6.7	5835	PASS

7w16573.D M7wbfb.M Thu Aug 07 19:41:55 2025

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1003	47.95	740	62.00	5766	75.00	60811
37.00	5547	49.00	5430	63.00	4750	76.00	5229
38.00	4772	50.00	26979	63.95	424	76.95	708
39.00	2026	51.00	8474	66.95	299	77.95	540
39.90	124	52.05	389	68.00	11924	78.90	3135
41.10	25	54.95	396	69.00	12070	79.90	1017
42.90	41	56.00	1901	69.95	941	80.90	3372
43.95	582	57.00	3847	70.85	48	81.90	685
45.00	1100	57.95	166	71.95	619	82.80	43
45.90	98	60.00	1293	73.00	5387	83.00	36
47.00	1625	61.00	6112	74.00	19688	86.05	112

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	4905	103.85	440	118.85	584	140.90	1229
88.00	4464	104.85	140	123.00	27	141.85	127
90.90	435	105.85	490	123.85	46	142.95	1190
92.00	3416	106.75	134	125.70	18	143.85	47
93.00	4959	110.85	68	127.85	413	144.85	107
94.00	13797	111.75	95	128.95	195	145.80	112
95.00	123992	112.80	80	129.85	393	146.95	49
96.00	7953	114.85	127	130.85	195	147.85	242
96.90	94	115.85	424	134.90	189	148.85	86
97.05	108	116.85	766	136.85	220	149.85	102
102.90	18	117.90	451	139.80	24	151.90	32

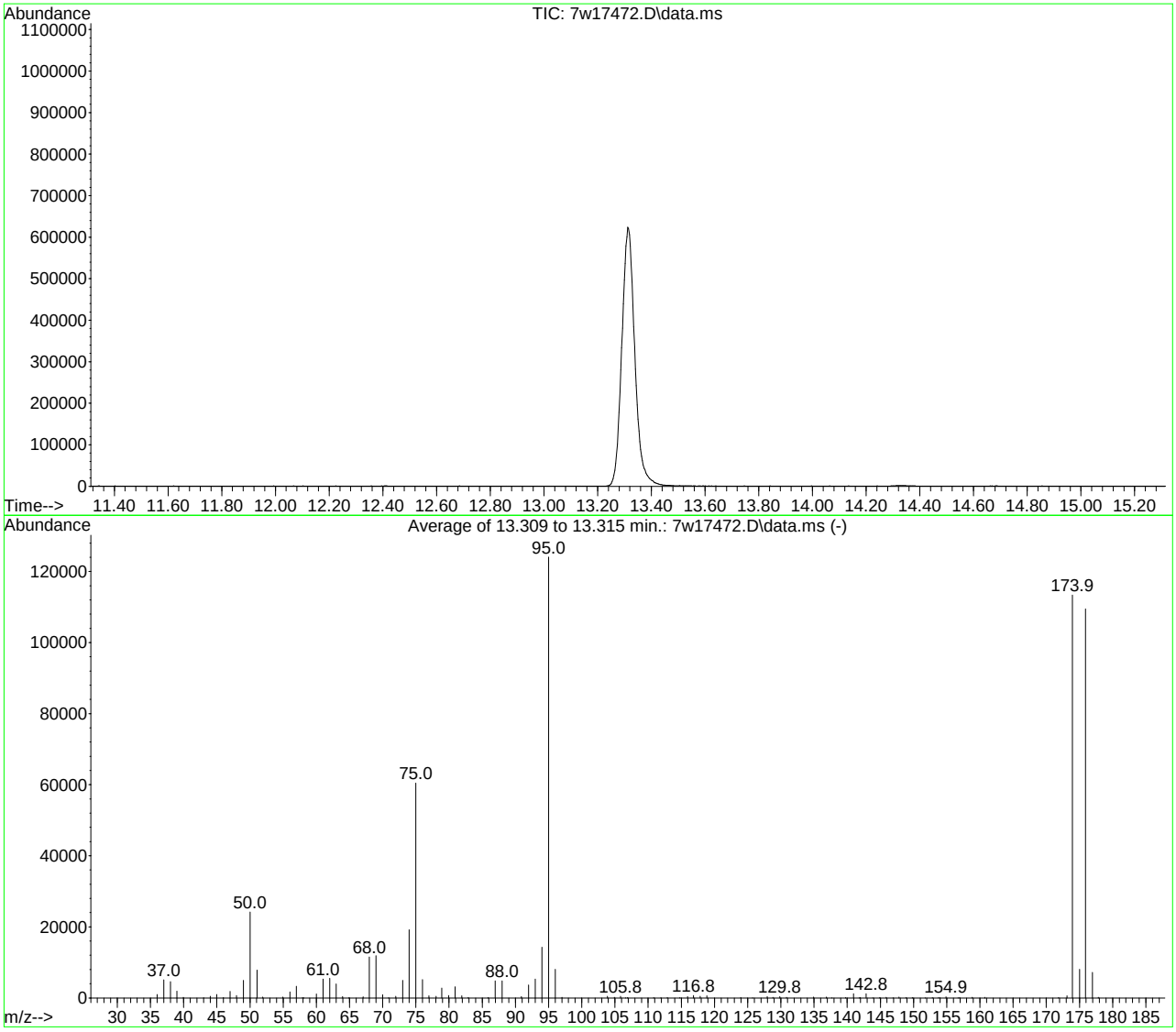
Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.80	91	176.95	5835				
153.85	70	177.90	218				
154.85	324						
156.85	216						
158.80	101						
160.90	114						
171.95	93						
173.05	724						
174.00	87088						
174.95	6502						
176.00	87355						

BFB

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17472.D Vial: 1
Acq On : 26 Sep 2025 10:25 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	24211	PASS
75	95	30	66	48.8	60491	PASS
95	95	100	100	100.0	124040	PASS
96	95	5	9	6.5	8048	PASS
173	174	0.00	2	0.6	644	PASS
174	95	50	120	91.4	113392	PASS
175	174	4	9	7.1	8039	PASS
176	174	93	101	96.6	109491	PASS
177	176	5	9	6.6	7193	PASS

7w17472.D M7W577.M Mon Sep 29 17:06:33 2025

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	994	49.00	4950	62.00	5501	74.00	19179
37.00	5126	50.00	24211	63.00	3974	75.00	60491
38.00	4613	51.05	7854	63.95	379	76.00	5147
39.00	1932	51.90	257	64.90	32	76.95	609
39.95	151	54.95	267	67.05	309	78.05	463
43.00	44	56.00	1686	68.00	11538	78.90	2810
44.00	503	57.00	3259	69.00	11858	79.95	727
45.00	1015	57.90	119	70.00	932	80.90	3140
46.00	92	58.10	23	70.90	21	81.90	597
47.00	1841	60.00	1139	71.95	510	82.90	78
47.95	717	61.00	5344	73.00	4973	85.85	98

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	4797	105.85	510	123.95	77	141.80	28
88.00	4809	106.60	20	125.75	39	141.95	105
90.90	382	106.90	116	127.95	391	142.85	1231
92.00	3682	110.85	88	128.80	181	143.85	52
93.00	5316	111.90	44	129.85	412	144.90	88
94.00	14286	112.90	99	130.85	210	145.85	149
95.00	124040	114.80	128	134.90	238	146.90	68
96.00	8048	115.95	365	136.85	239	147.80	291
97.00	215	116.85	679	137.70	22	148.85	103
103.85	482	117.85	469	139.75	93	149.80	113
104.90	165	118.85	609	140.95	1166	151.75	39

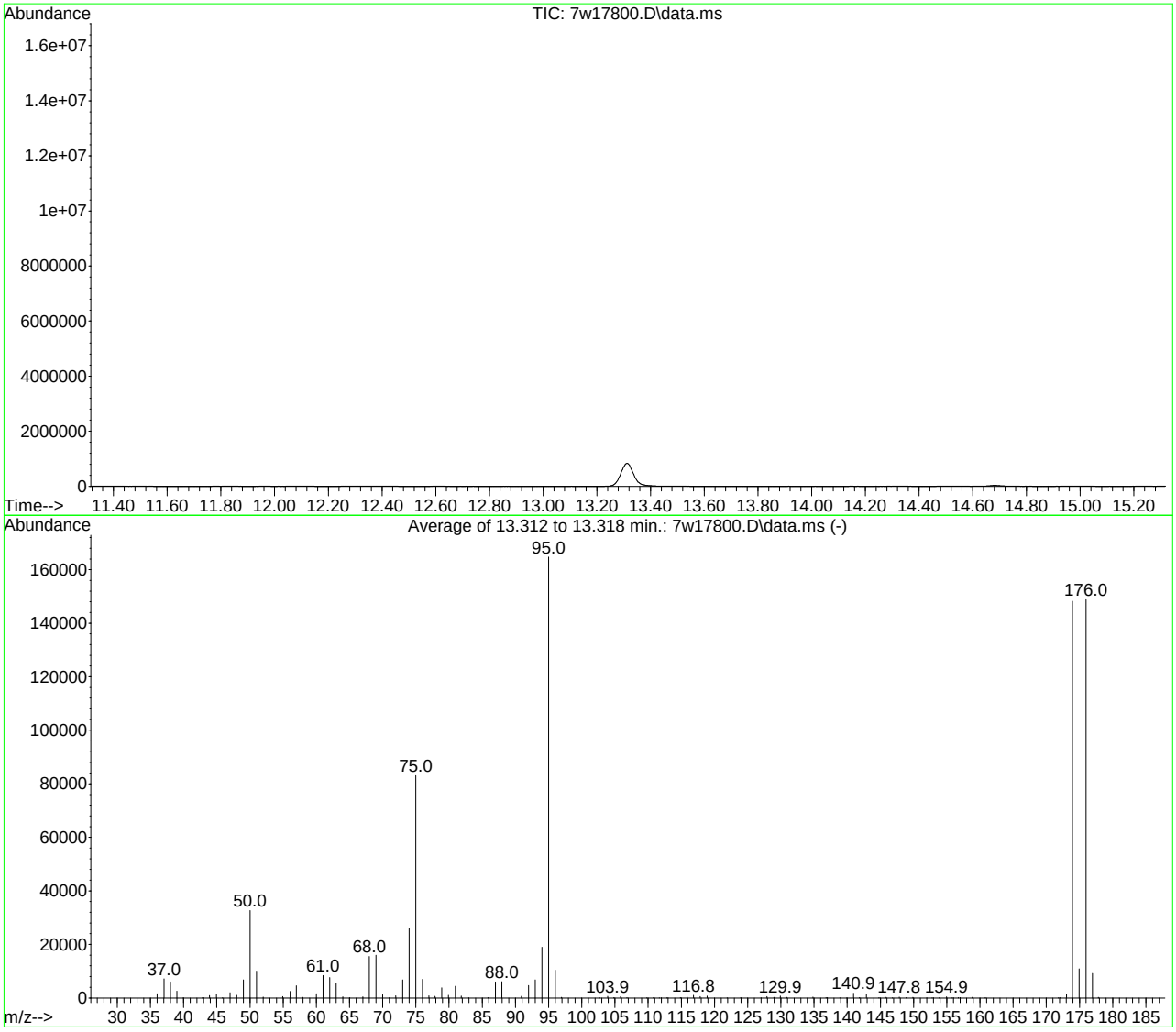
Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.85	109	175.00	8039				
153.75	100	175.90	109491				
154.00	27	176.95	7193				
154.90	329	177.85	205				
156.70	41						
156.95	84						
158.85	175						
160.75	178						
171.85	118						
173.10	644						
173.95	113392						

BFB

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17800.D Vial: 4
Acq On : 13 Oct 2025 10:41 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4113, 4114, 4115; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.8	32653	PASS
75	95	30	66	50.4	83059	PASS
95	95	100	100	100.0	164693	PASS
96	95	5	9	6.3	10435	PASS
173	174	0.00	2	0.9	1376	PASS
174	95	50	120	90.0	148181	PASS
175	174	4	9	7.4	10927	PASS
176	174	93	101	100.4	148821	PASS
177	176	5	9	6.2	9210	PASS

7w17800.D M7W577.M Mon Oct 13 21:32:02 2025

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1548	48.00	998	62.00	7648	74.00	25928
37.05	7146	49.00	6797	63.00	5647	75.00	83059
38.00	6017	50.00	32653	64.00	469	76.00	6950
39.00	2546	51.00	10056	65.05	77	76.95	868
39.95	76	52.00	373	67.00	420	77.90	624
42.80	54	54.95	497	68.00	15526	78.90	3753
43.05	93	56.05	2421	69.00	16030	79.90	1027
43.90	913	57.00	4596	70.00	1185	80.95	4363
44.95	1374	57.95	241	71.00	23	81.85	687
45.85	94	60.00	1599	71.95	837	82.95	81
47.00	1988	61.00	8422	73.00	6766	85.85	192

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	6024	104.85	174	116.85	972	136.80	132
87.95	6118	105.85	560	117.85	490	137.00	170
90.90	612	106.80	151	118.90	774	138.90	18
92.00	4652	109.80	57	121.90	30	139.95	66
93.00	6777	110.80	117	123.95	114	140.95	1778
94.00	18955	111.70	57	127.00	18	141.85	181
95.00	164693	112.00	28	127.90	524	142.90	1542
96.00	10435	112.80	81	128.95	268	144.80	153
96.95	293	113.00	43	129.90	709	145.85	237
102.70	47	114.85	180	130.90	269	146.80	75
103.90	664	115.85	548	134.85	315	147.85	387

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.90	132	158.85	205				
149.90	249	160.80	198				
152.00	18	171.80	84				
152.80	36	172.05	152				
153.00	89	173.05	1376				
153.85	77	173.95	148181				
154.95	434	174.95	10927				
155.80	23	176.00	148821				
156.00	23	176.95	9210				
156.75	173	177.85	232				
157.00	105						

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	470818	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2113713	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1047801	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	474427	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1393397	10.72	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 107.20%				
Target Compounds							Qvalue
2) FREON 115	3.378	119	1822	0.06	PPBV		95
3) FREON 152A	3.457	65	2398	0.07	PPBV		97
4) CHLORODIFLUOROMETHANE	3.482	67	522	0.04	PPBV	#	44
5) CHLOROTRIFLUOROETHENE	3.512	116	3060	0.04	PPBV		95
6) DICHLORODIFLUOROMETHANE	3.555	85	5958	0.04	PPBV		95
7) PROPYLENE	3.512	41	2388m	0.07	PPBV		
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	5550m	0.05	PPBV		
9) FREON 114	3.732	85	6084	0.05	PPBV		93
10) CHLOROMETHANE	3.671	52	845	0.06	PPBV	#	32
11) VINYL CHLORIDE	3.824	62	2035	0.05	PPBV	#	39
12) 1,3-BUTADIENE	3.928	54	1523	0.06	PPBV	#	42
13) n-BUTANE	3.953	43	2825m	0.07	PPBV		
14) BROMOMETHANE	4.112	94	2464	0.05	PPBV	#	53
15) CHLOROETHANE	4.234	64	1697m	0.08	PPBV		
16) DICHLOROFLUOROMETHANE	4.301	67	4942	0.05	PPBV	#	84
17) ACETONITRILE	4.534	41	1278	0.05	PPBV	#	61
18) ACROLEIN	4.620	56	728m	0.05	PPBV		
19) FREON 123	4.607	83	6421	0.06	PPBV		76
20) FREON 123A	4.644	117	3274	0.05	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	5153	0.05	PPBV	#	77
22) ISOPROPYL ALCOHOL	4.938	45	5219m	0.06	PPBV		
23) ACETONE	4.730	58	1951	0.11	PPBV		95
24) PENTANE	5.084	42	3370	0.08	PPBV		76
25) IODOMETHANE	5.256	142	6273	0.04	PPBV		87
26) 1,1-DICHLOROETHYLENE	5.323	96	2915	0.06	PPBV	#	58
27) CARBON DISULFIDE	5.684	76	5982	0.05	PPBV		90
28) ETHANOL	4.350	45	2592	0.17	PPBV		78
29) BROMOETHENE	4.491	106	2283	0.05	PPBV	#	64
30) ACRYLONITRILE	5.109	52	1514	0.05	PPBV	#	71
31) METHYLENE CHLORIDE	5.427	84	2871	0.06	PPBV		97
32) 3-CHLOROPROPENE	5.537	76	1170	0.05	PPBV	#	68
33) FREON 113	5.647	151	3628	0.04	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.253	96	2781m	0.05	PPBV		
35) TERTIARY BUTYL ALCOHOL	5.482	59	3750	0.04	PPBV		78
36) METHYL TERTIARY BUTYL ...	6.565	73	7842	0.06	PPBV		90
38) HEXANE	7.385	57	3894	0.05	PPBV		89
40) 1,1-DICHLOROETHANE	6.436	63	5305	0.06	PPBV		94
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3901	0.07	PPBV	#	54
43) DIISOPROPYL ETHER	7.458	59	536	0.03	PPBV	#	1
44) ETHYL ACETATE	7.207	61	3226	0.23	PPBV	#	1
45) METHYL ACRYLATE	7.397	55	878	0.01	PPBV	#	65
46) CHLOROFORM	7.489	83	4783	0.05	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	8.229	57	4175	0.05	PPBV		91
48) 1,1,1-TRICHLOROETHANE	8.413	97	4728	0.04	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	4970	0.04	PPBV		99
50) 1,2-DICHLOROETHANE	8.192	62	3147	0.04	PPBV	#	73
52) BENZENE	8.871	78	6471	0.05	PPBV		84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

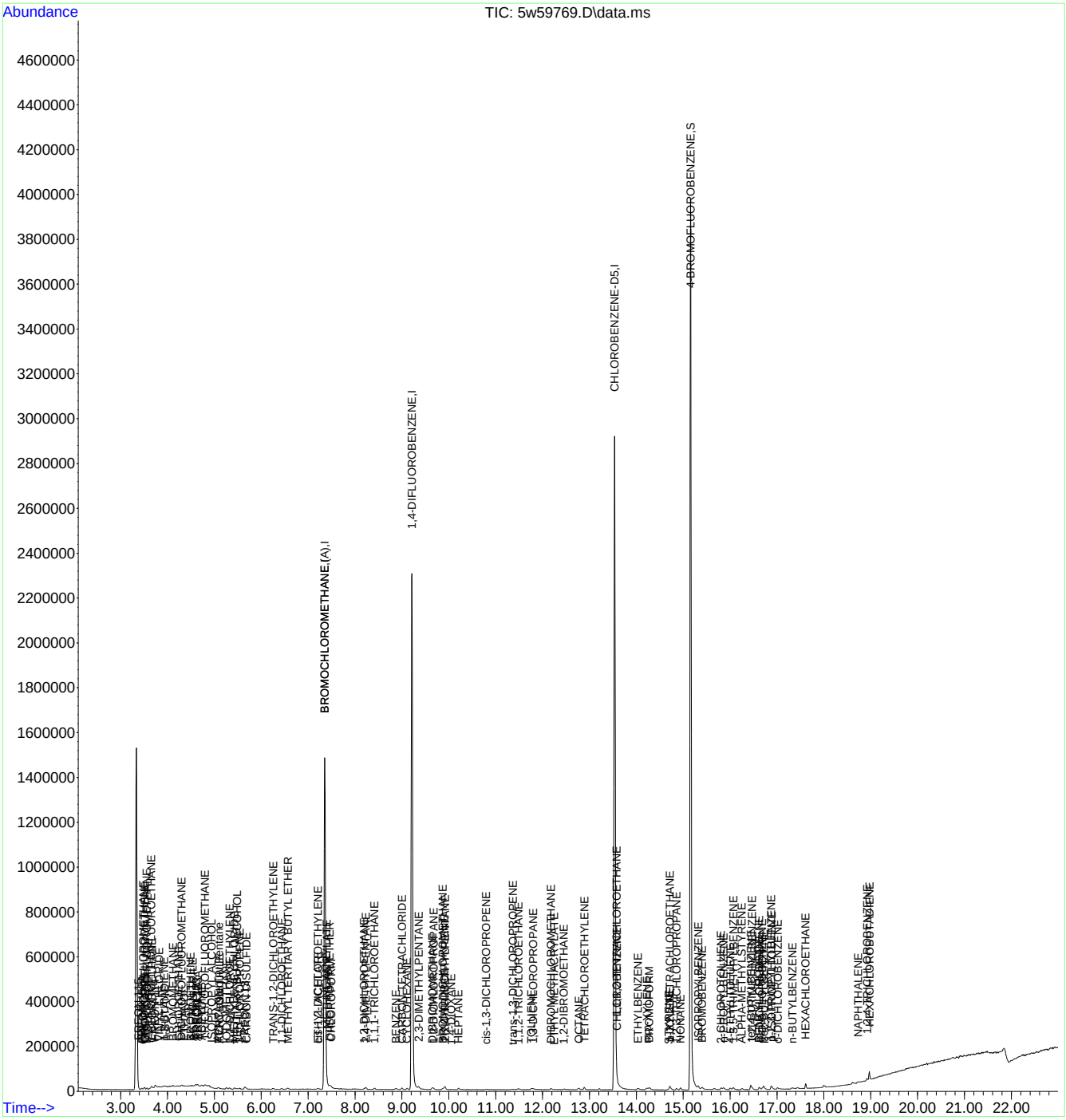
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) CYCLOHEXANE	9.104	84	2517	0.04	PPBV		86
54) 2,3-DIMETHYLPENTANE	9.361	71	1176	0.04	PPBV	#	68
55) TRICHLOROETHYLENE	9.905	95	2913	0.04	PPBV		91
56) 1,2-DICHLOROPROPANE	9.673	63	3887m	0.06	PPBV		
57) DIBROMOMETHANE	9.648	174	3768	0.05	PPBV		94
59) BROMODICHLOROMETHANE	9.869	83	4912	0.04	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	9.917	57	10699	0.05	PPBV		97
61) 1,4-DIOXANE	10.052	88	1059	0.03	PPBV	#	1
62) HEPTANE	10.205	43	4522	0.06	PPBV		88
65) cis-1,3-DICHLOROPROPENE	10.792	75	4969	0.05	PPBV		77
66) TOLUENE	11.759	92	4059	0.04	PPBV		84
67) 1,3-DICHLOROPROPANE	11.796	76	3478	0.04	PPBV	#	53
68) trans-1,3-DICHLOROPROPENE	11.361	75	4586	0.05	PPBV		80
69) 1,1,2-TRICHLOROETHANE	11.484	83	2006	0.03	PPBV		89
72) ETHYL METHACRYLATE	12.248	69	735	0.01	PPBV	#	1
73) TETRACHLOROETHYLENE	12.891	164	3089	0.04	PPBV		89
74) DIBROMOCHLOROMETHANE	12.181	129	5067	0.04	PPBV		93
75) 1,2-DIBROMOETHANE	12.450	107	3668	0.04	PPBV	#	91
76) OCTANE	12.768	43	6243m	0.07	PPBV		
77) 1,1,1,2-TETRACHLOROETHANE	13.576	131	3434	0.04	PPBV		95
78) CHLOROBENZENE	13.588	112	6320	0.05	PPBV	#	50
79) ETHYLBENZENE	14.035	91	9593	0.05	PPBV		86
80) m,p-XYLENE	14.224	106	6608	0.08	PPBV	#	91
81) o-XYLENE	14.714	106	3154	0.04	PPBV	#	64
82) STYRENE	14.695	104	3881	0.03	PPBV		84
83) NONANE	14.940	43	5771	0.06	PPBV		90
84) BROMOFORM	14.273	173	4371	0.04	PPBV	#	93
86) 1,1,2,2-TETRACHLOROETHANE	14.714	83	5918	0.05	PPBV		95
87) 1,2,3-TRICHLOROPROPANE	14.854	75	5967	0.06	PPBV		74
88) ISOPROPYLBENZENE	15.319	105	9953	0.04	PPBV		87
89) BROMOBENZENE	15.399	77	5423	0.05	PPBV		89
90) 2-CHLOROTOLUENE	15.803	126	2313	0.04	PPBV		63
91) n-PROPYLBENZENE	15.858	120	2252	0.04	PPBV	#	61
92) 4-ETHYLTOLUENE	16.005	105	7489m	0.04	PPBV		
93) 1,3,5-TRIMETHYLBENZENE	16.066	105	9751m	0.05	PPBV		
94) ALPHA-METHYLSTYRENE	16.249	118	2895	0.03	PPBV		87
95) tert-BUTYLBENZENE	16.445	134	1525	0.04	PPBV	#	63
96) 1,2,4-TRIMETHYLBENZENE	16.470	105	8180	0.05	PPBV	#	29
97) m-DICHLOROBENZENE	16.622	146	4669	0.03	PPBV		89
98) BENZYL CHLORIDE	16.622	91	4703	0.03	PPBV		83
99) p-DICHLOROBENZENE	16.684	146	6829m	0.05	PPBV		
100) sec-BUTYLBENZENE	16.714	134	2023	0.04	PPBV	#	72
101) 1,2,3-TRIMETHYLBENZENE	16.873	105	8480	0.04	PPBV		93
102) p-ISOPROPYLTOLUENE	16.886	134	2164	0.04	PPBV	#	60
103) o-DICHLOROBENZENE	17.014	146	5480	0.04	PPBV		94
104) n-BUTYLBENZENE	17.332	134	1780	0.03	PPBV	#	47
105) HEXACHLOROETHANE	17.607	117	4357	0.05	PPBV		95
106) HEXACHLOROBUTADIENE	18.972	225	5840	0.05	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.923	180	5141	0.04	PPBV		96
108) NAPHTHALENE	18.727	128	11614m	0.04	PPBV		
110) TVHC as equiv Pentane	5.097	TIC	13430m	0.05	PPBV		

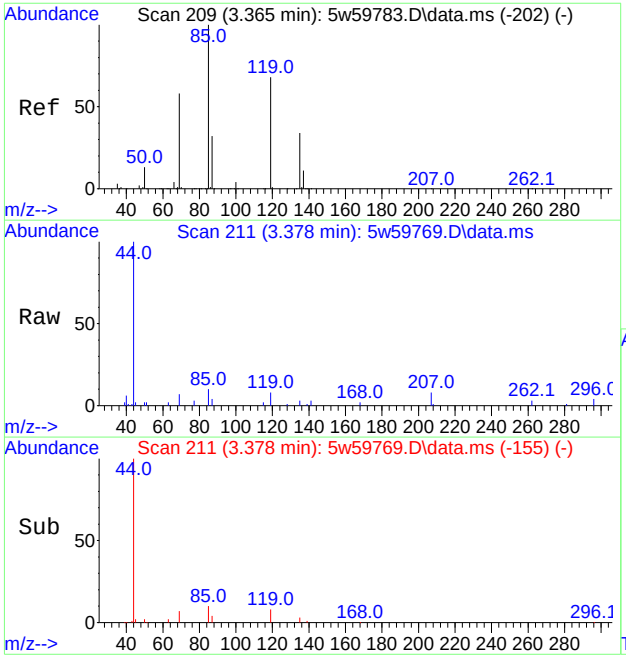
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

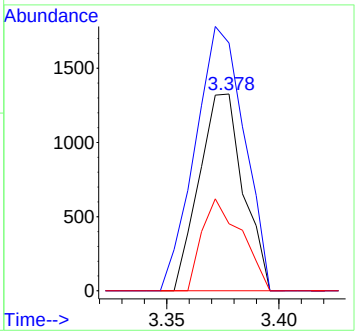


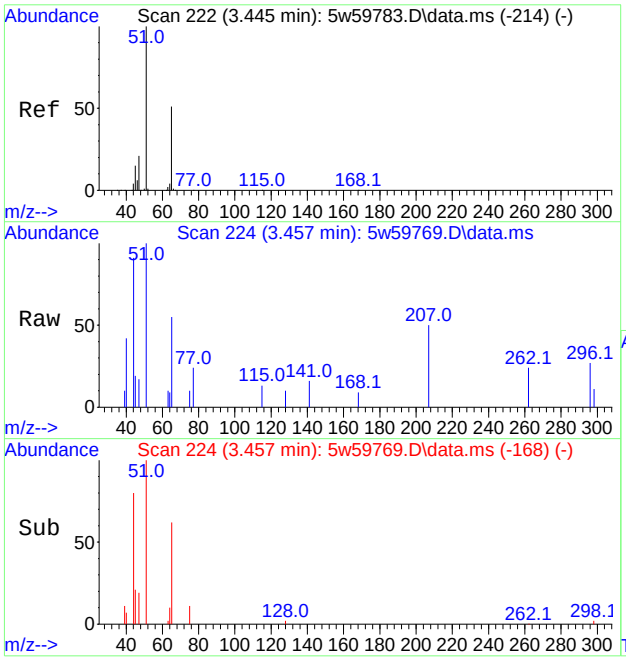


#2
FREON 115
Concen: 0.06 PPBV
RT: 3.378 min Scan# 211
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:119 Resp: 1822

Ion	Ratio	Lower	Upper
119	100		
85	149.2	116.2	176.2
135	41.9	20.6	80.6

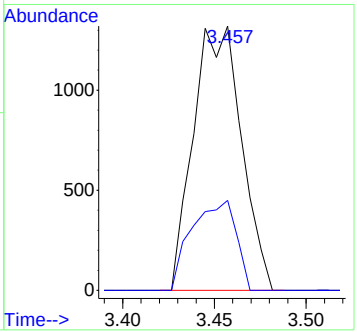


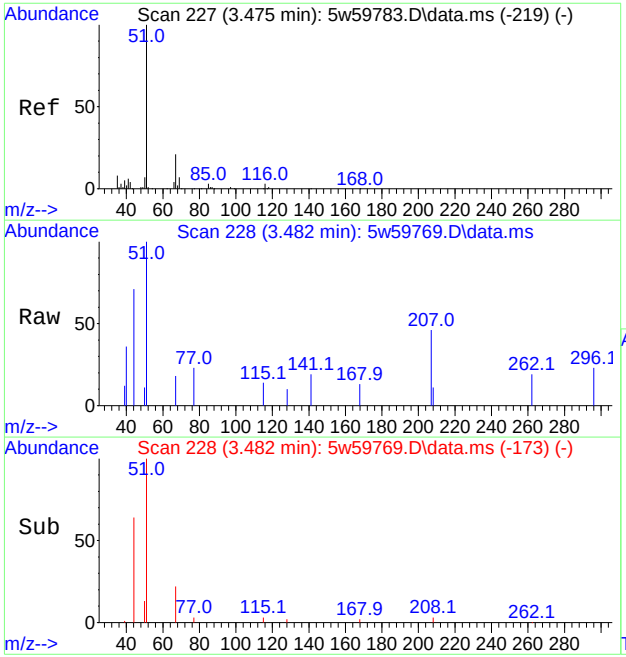


#3
FREON 152A
Concen: 0.07 PPBV
RT: 3.457 min Scan# 224
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 2398

Ion	Ratio	Lower	Upper
65	100		
45	31.4	0.0	60.0

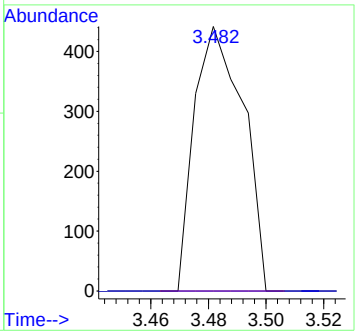


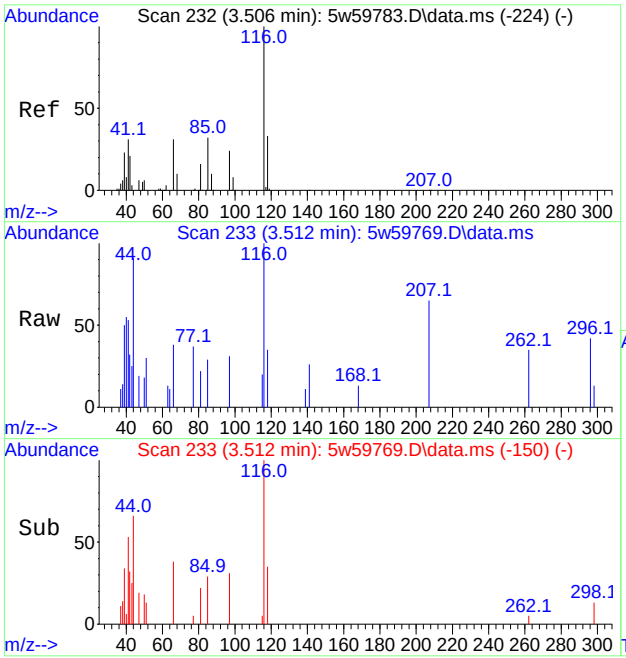


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 522

Ion	Ratio	Lower	Upper
67	100		
69	0.0	1.0	61.0#

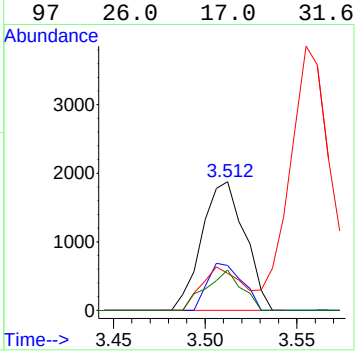


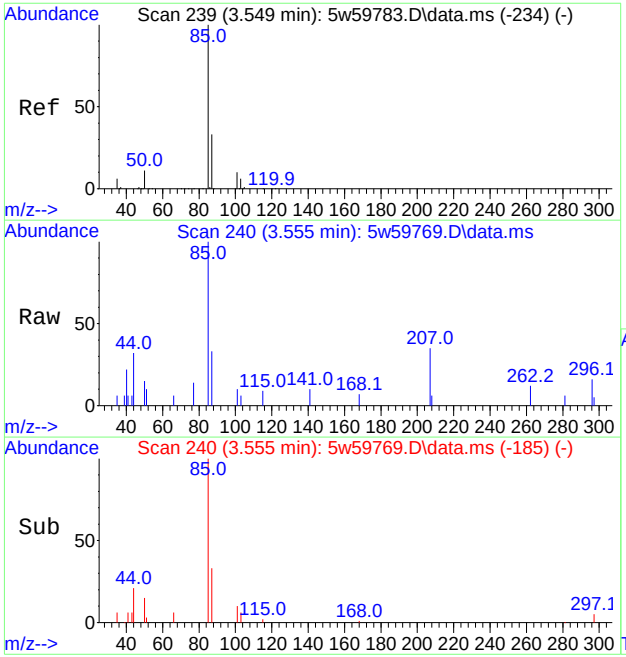


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 3.512 min Scan# 233
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:116 Resp: 3060

Ion	Ratio	Lower	Upper
116	100		
118	29.7	22.9	42.5
85	31.1	23.7	44.1
97	26.0	17.0	31.6

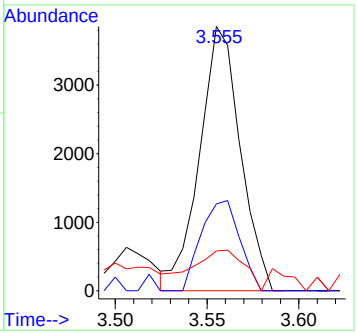


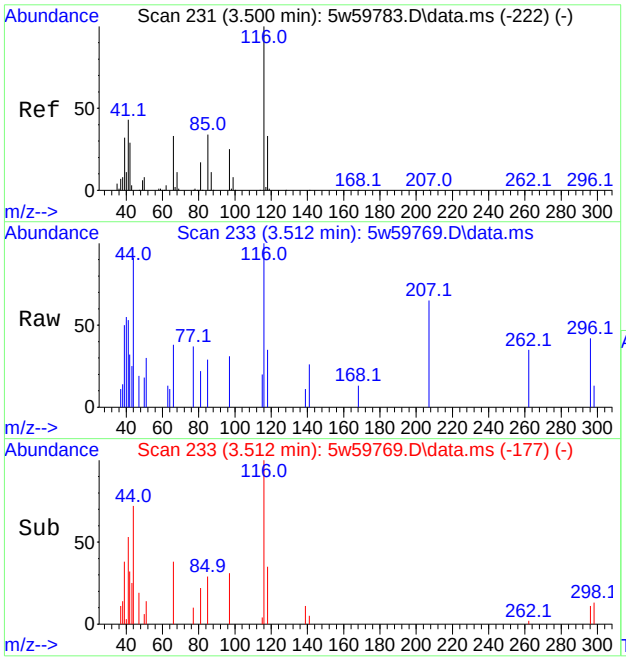


#6
DICHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 5958

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	18.7	0.0	41.7

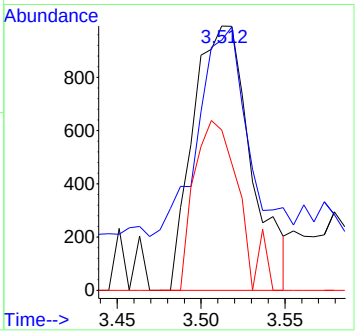


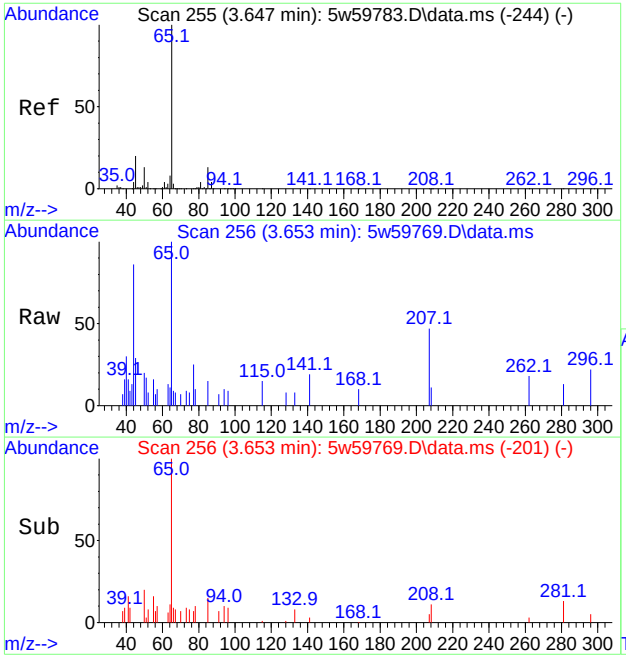


#7
PROPYLENE
Concen: 0.07 PPBV m
RT: 3.512 min Scan# 233
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 2388

Ion	Ratio	Lower	Upper
41	100		
39	236.5	45.1	105.1#
42	49.5	36.3	96.3

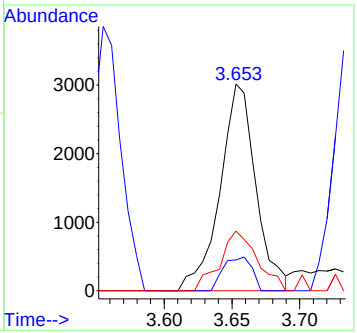


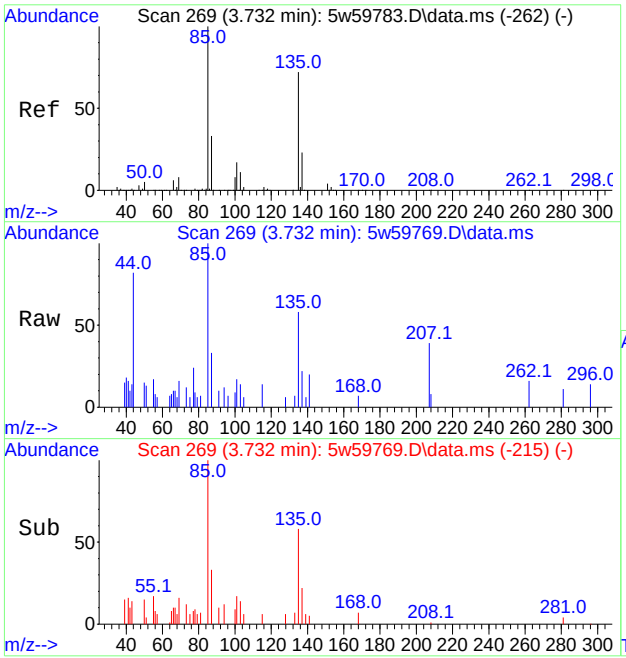


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.05 PPBV m
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 5550

Ion	Ratio	Lower	Upper
65	100		
85	12.9	11.5	21.3
45	30.0	14.0	26.0#

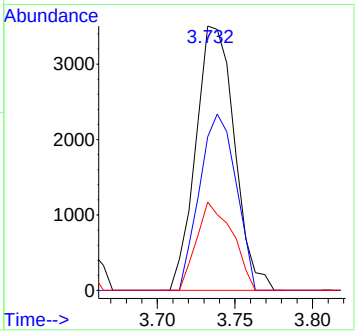


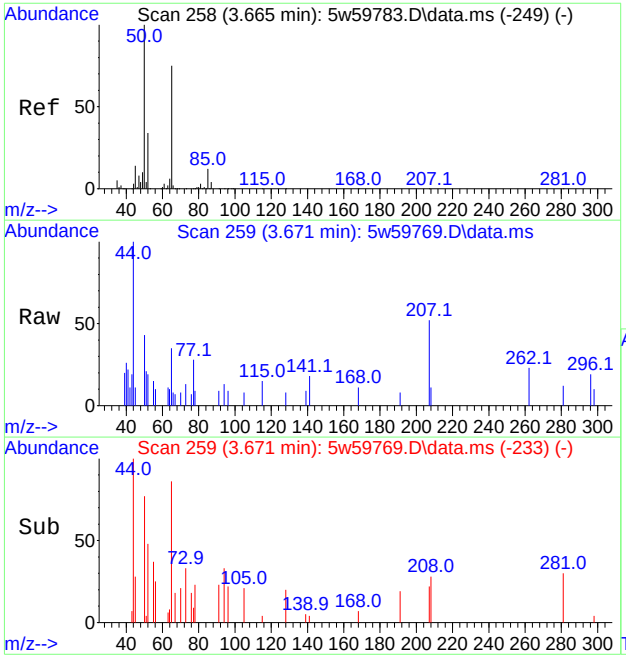


#9
FREON 114
Concen: 0.05 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 6084

Ion	Ratio	Lower	Upper
85	100		
135	63.0	40.5	100.5
87	30.9	3.0	63.0

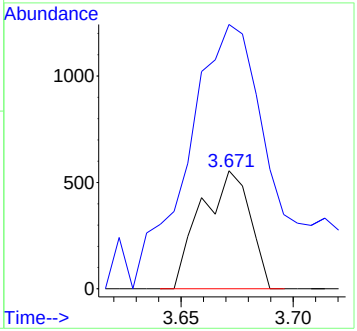


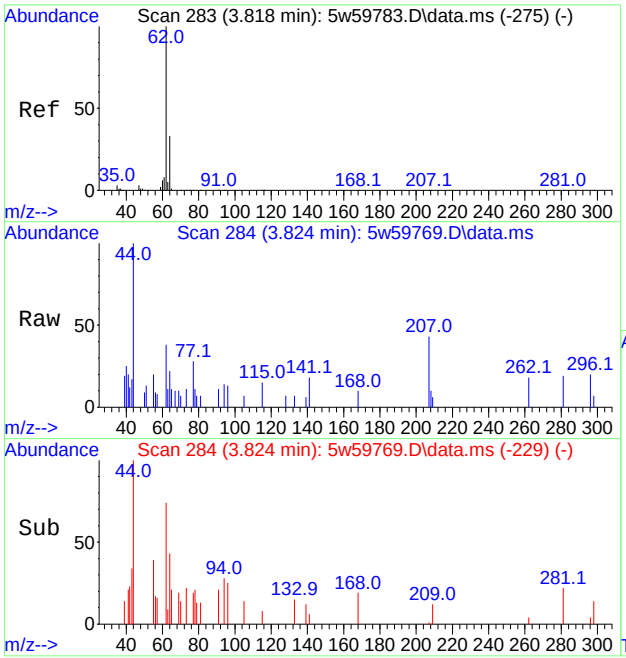


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 3.671 min Scan# 259
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 845

Ion	Ratio	Lower	Upper
52	100		
50	165.1	267.9	327.9#

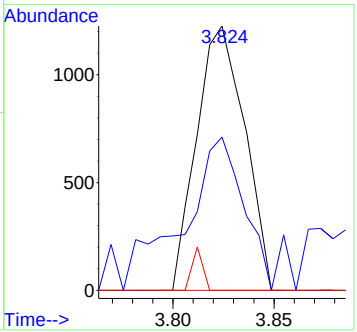


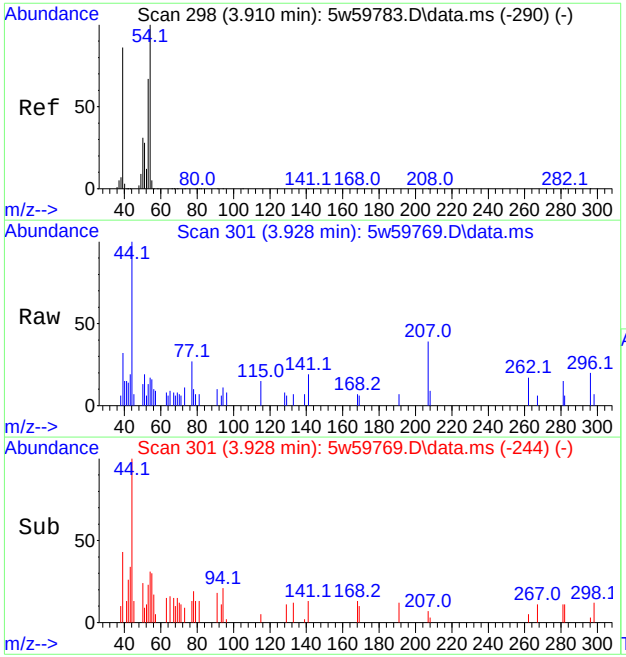


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 3.824 min Scan# 284
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 2035

Ion	Ratio	Lower	Upper
62	100		
64	73.5	3.6	63.6#
61	0.0	0.0	38.2

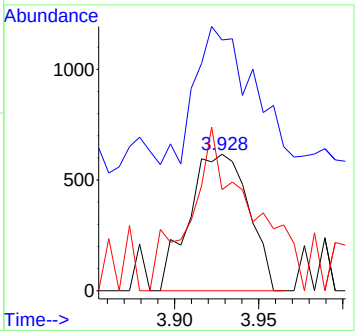


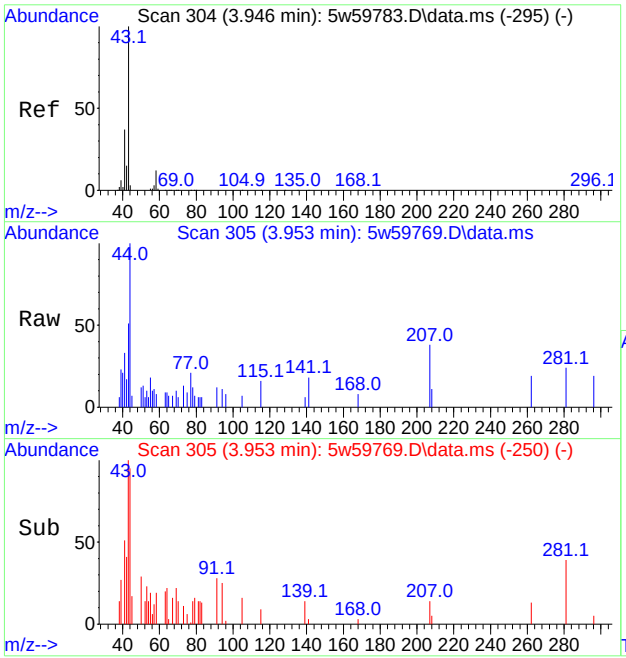


#12
1,3-BUTADIENE
Concen: 0.06 PPBV
RT: 3.928 min Scan# 301
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 54 Resp: 1523

Ion	Ratio	Lower	Upper
54	100		
39	168.7	82.0	142.0#
53	123.3	40.2	100.2#

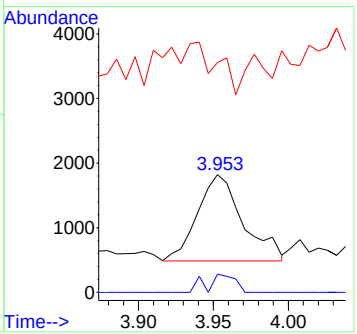


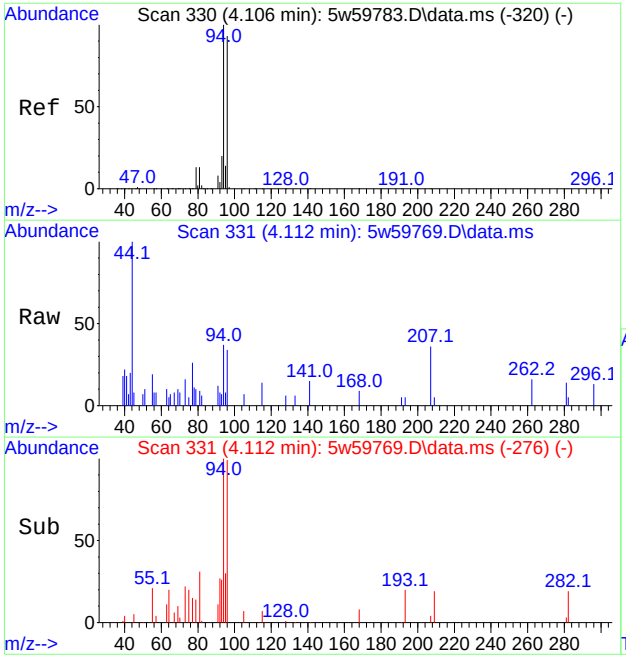


#13
n-BUTANE
Concen: 0.07 PPBV m
RT: 3.953 min Scan# 305
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 2825

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	0.0	0.0	34.9

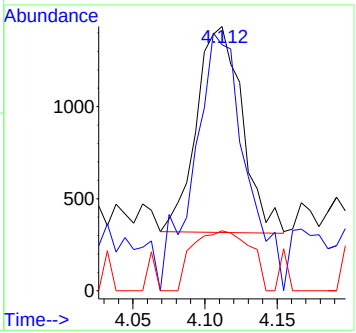


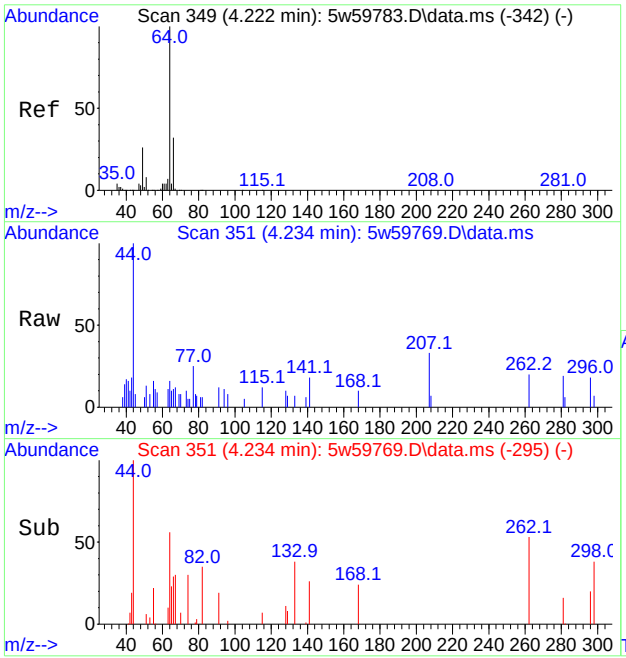


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 4.112 min Scan# 331
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 94 Resp: 2464

Ion	Ratio	Lower	Upper
94	100		
96	140.0	65.3	125.3#
95	36.8	0.0	44.1

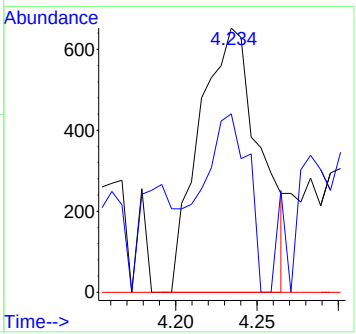


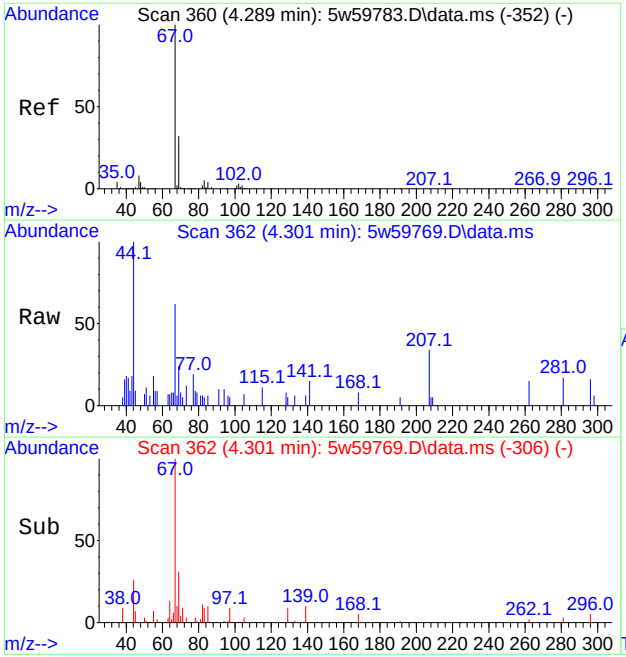


#15
CHLOROETHANE
Concen: 0.08 PPBV m
RT: 4.234 min Scan# 351
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 64 Resp: 1697

Ion	Ratio	Lower	Upper
64	100		
66	45.4	3.1	63.1
49	0.0	0.0	55.3

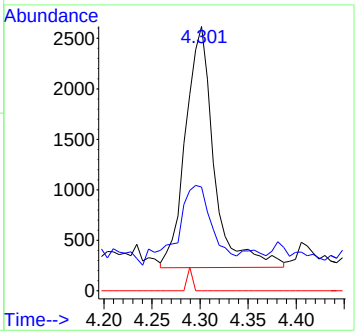


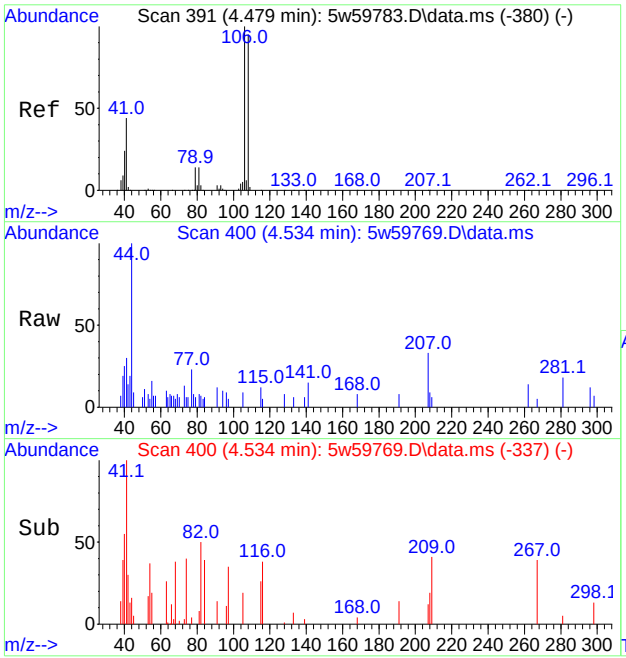


#16
DICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.301 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 4942

Ion	Ratio	Lower	Upper
67	100		
69	40.5	22.7	42.3
47	0.0	5.6	10.4#

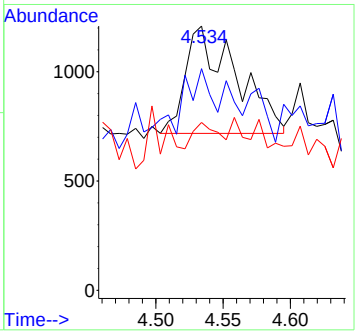


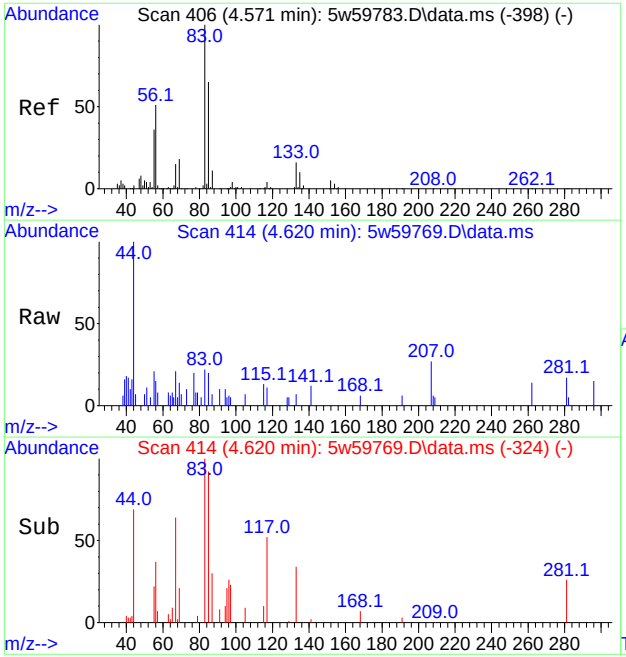


#17
ACETONITRILE
Concen: 0.05 PPBV
RT: 4.534 min Scan# 400
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 1278

Ion	Ratio	Lower	Upper
41	100		
40	81.2	37.9	70.5#
39	0.0	13.4	24.8#

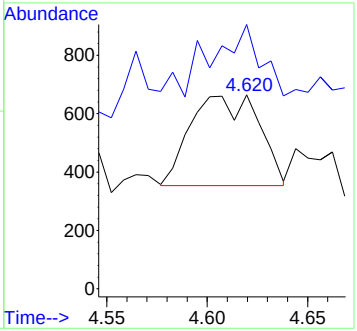


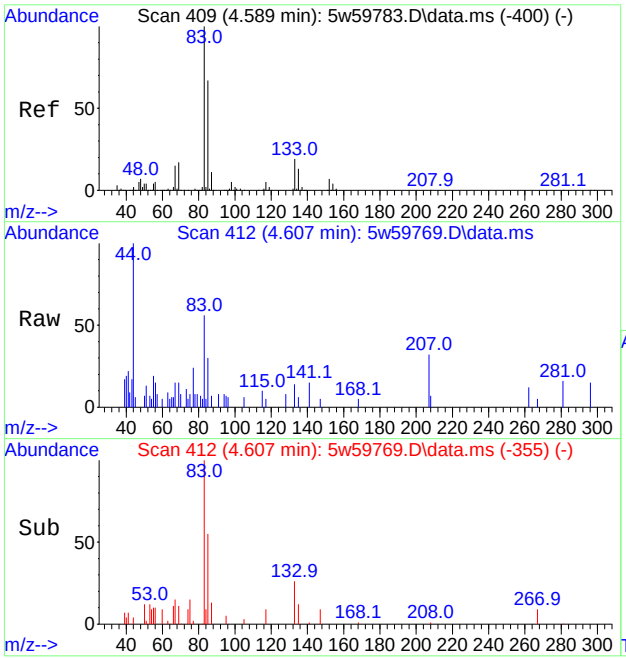


#18
ACROLEIN
Concen: 0.05 PPBV m
RT: 4.620 min Scan# 414
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 56 Resp: 728

Ion	Ratio	Lower	Upper
56	100		
55	401.2	46.6	86.6#

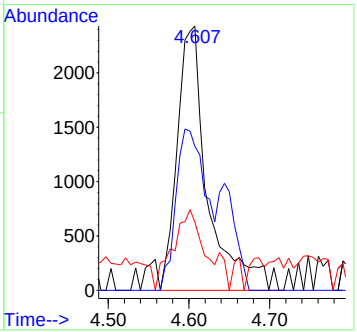


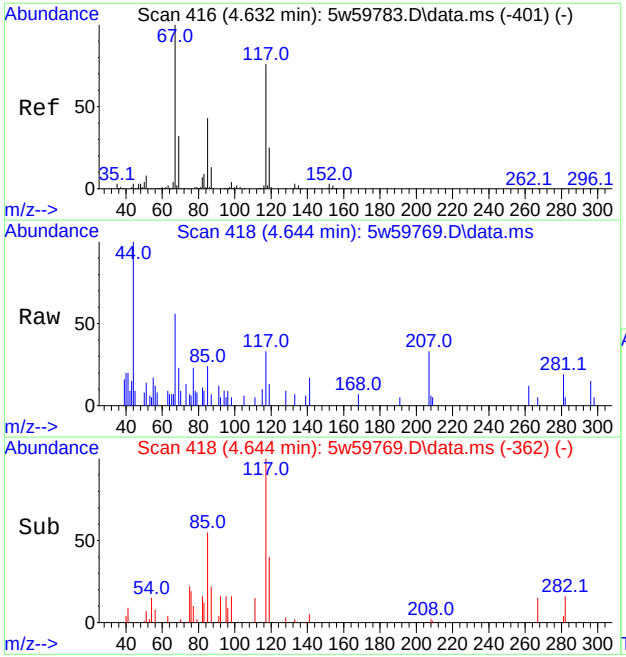


#19
FREON 123
Concen: 0.06 PPBV
RT: 4.607 min Scan# 412
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 6421

Ion	Ratio	Lower	Upper
83	100		
85	82.3	34.0	94.0
133	33.3	0.0	50.7

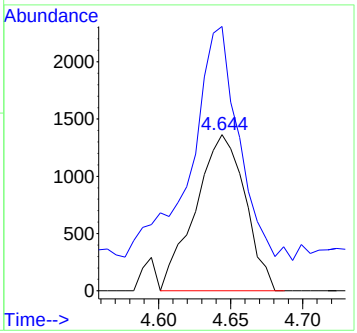


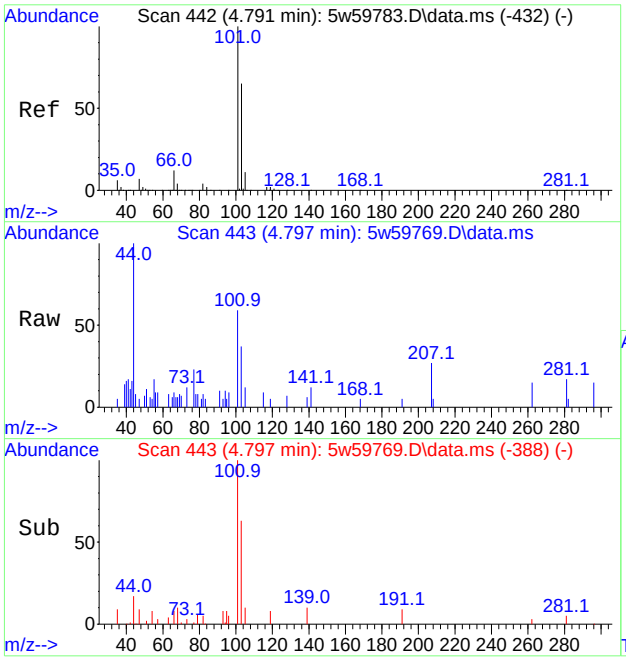


#20
FREON 123A
Concen: 0.05 PPBV
RT: 4.644 min Scan# 418
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 3274

Ion	Ratio	Lower	Upper
117	100		
67	146.4	114.6	174.6

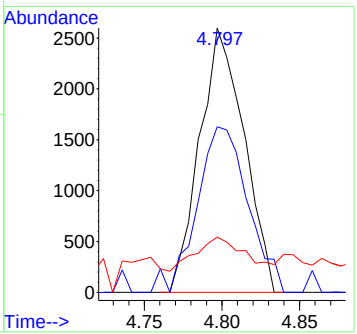


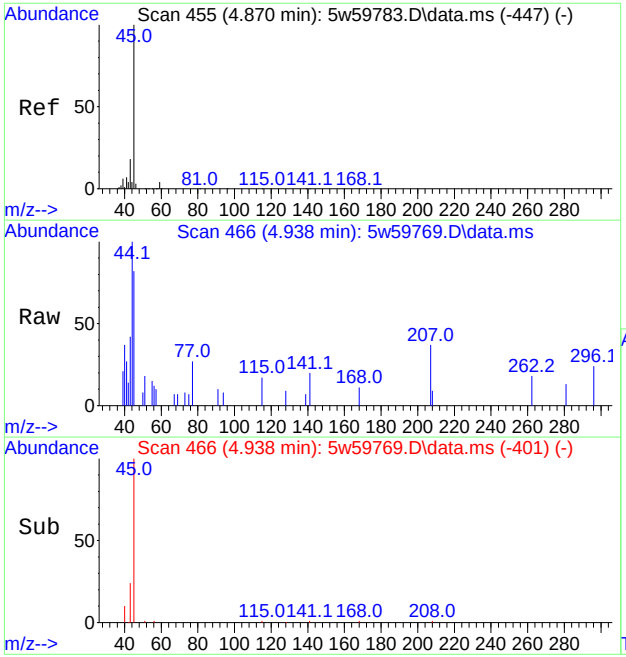


#21
TRICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:101 Resp: 5153

Ion	Ratio	Lower	Upper
101	100		
103	72.3	35.0	95.0
105	51.3	0.0	40.7#

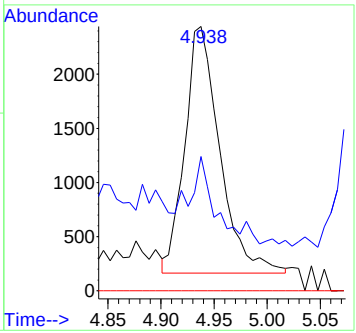


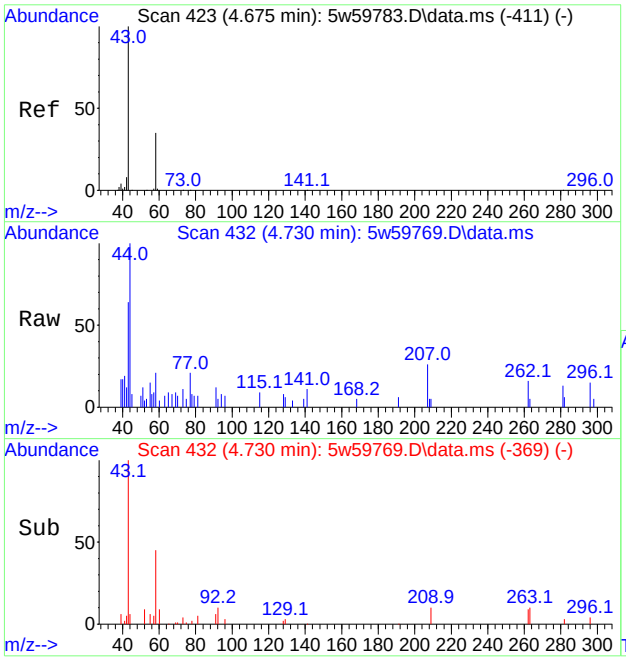


#22
ISOPROPYL ALCOHOL
Concen: 0.06 PPBV m
RT: 4.938 min Scan# 466
Delta R.T. 0.068 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 45 Resp: 5219

Ion	Ratio	Lower	Upper
45	100		
43	50.8	0.0	47.8#
59	0.0	0.0	34.1

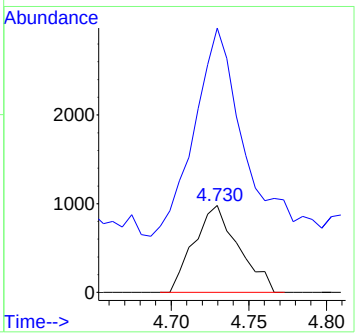


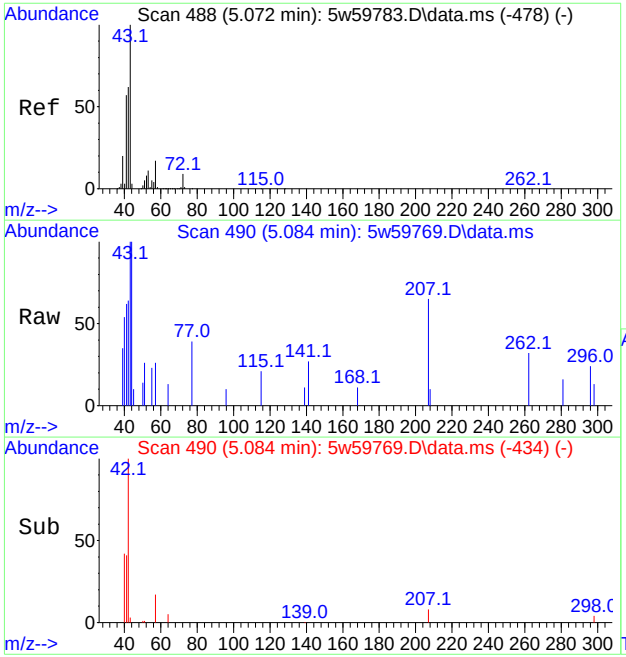


#23
ACETONE
Concen: 0.11 PPBV
RT: 4.730 min Scan# 432
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 58 Resp: 1951

Ion	Ratio	Lower	Upper
58	100		
43	292.5	252.3	312.3

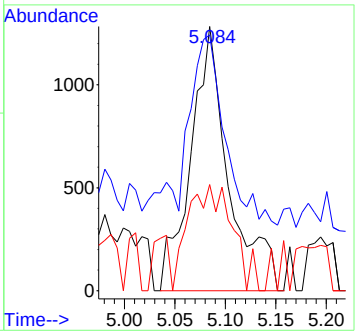


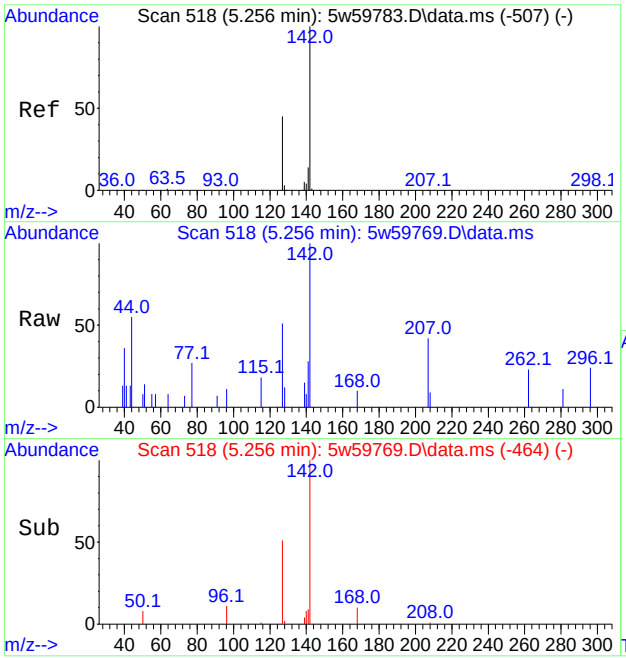


#24
PENTANE
Concen: 0.08 PPBV
RT: 5.084 min Scan# 490
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 42 Resp: 3370

Ion	Ratio	Lower	Upper
42	100		
41	72.5	62.3	122.3
57	46.9	0.0	57.7

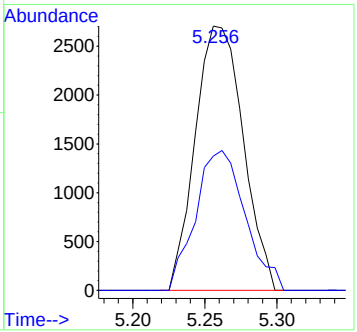


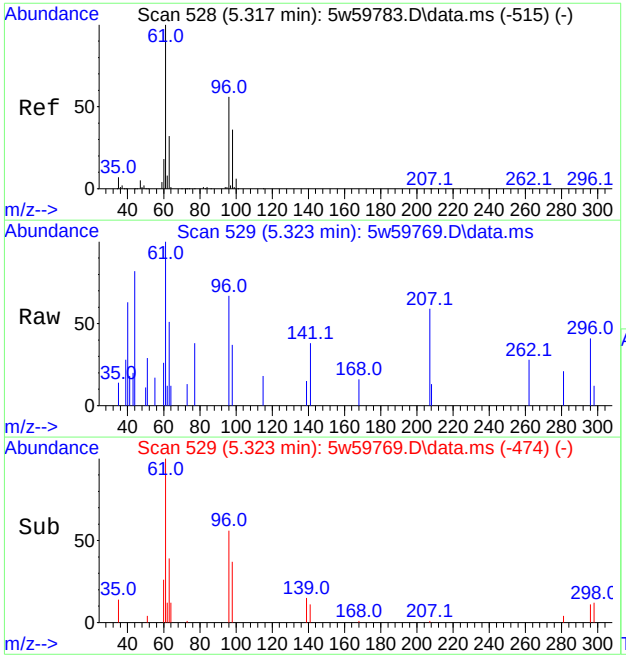


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:142 Resp: 6273

Ion	Ratio	Lower	Upper
142	100		
127	54.7	16.0	76.0

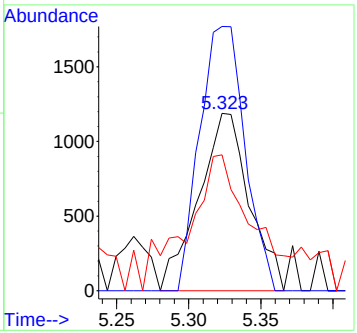


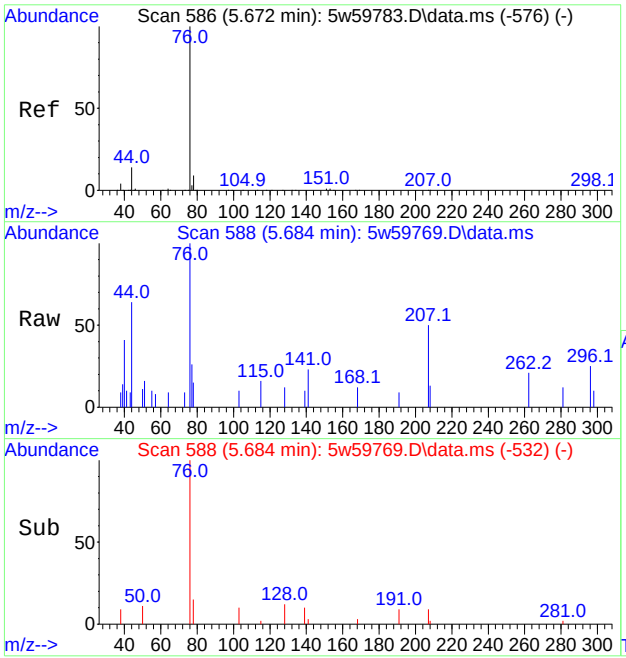


#26
1,1-DICHLOROETHYLENE
Concen: 0.06 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2915

Ion	Ratio	Lower	Upper
96	100		
61	132.6	148.5	208.5#
63	110.9	27.4	87.4#

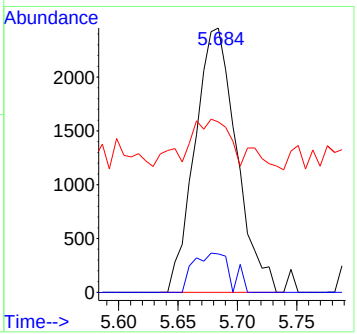


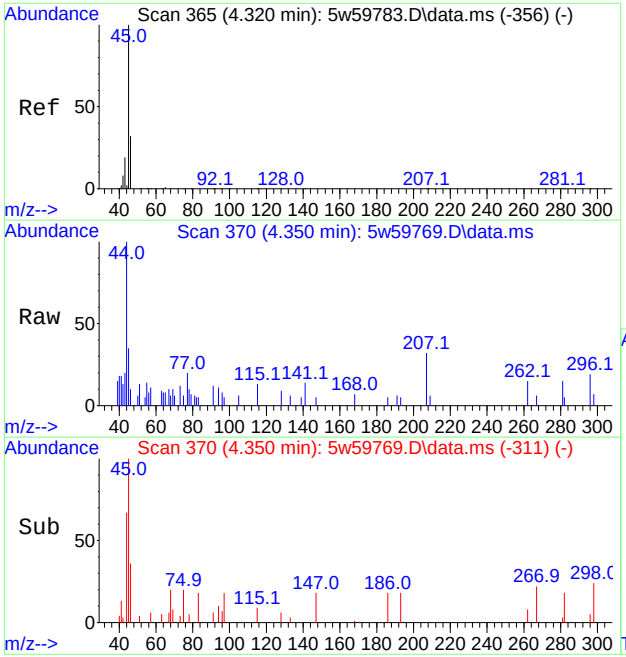


#27
CARBON DISULFIDE
Concen: 0.05 PPBV
RT: 5.684 min Scan# 588
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 5982

Ion	Ratio	Lower	Upper
76	100		
78	13.3	0.0	41.5
44	20.2	0.0	44.6

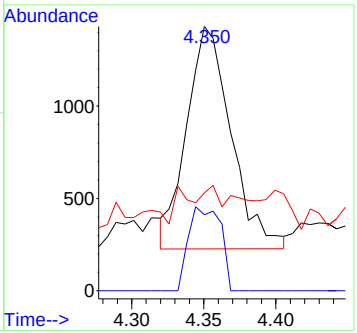


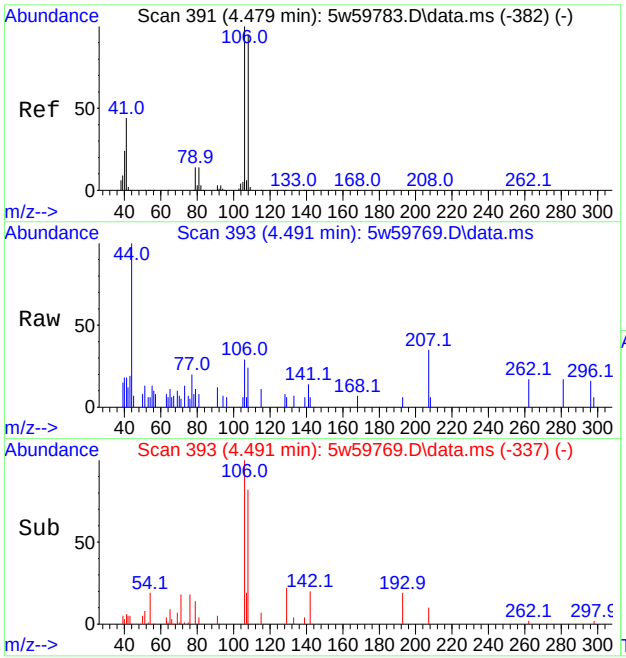


#28
ETHANOL
Concen: 0.17 PPBV
RT: 4.350 min Scan# 370
Delta R.T. 0.030 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 45 Resp: 2592

Ion	Ratio	Lower	Upper
45	100		
46	27.1	2.0	62.0
42	34.5	0.0	38.5

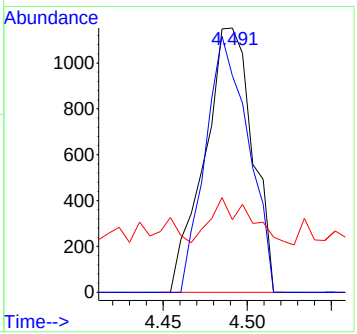


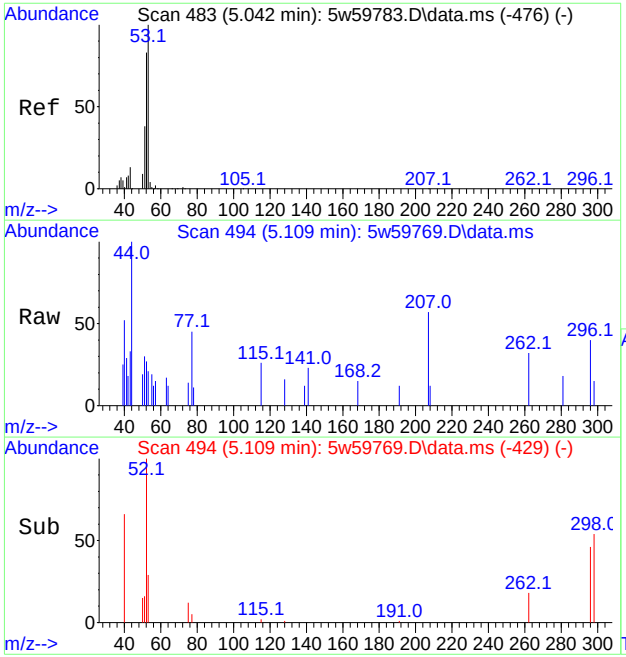


#29
BROMOETHENE
Concen: 0.05 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 2283

Ion	Ratio	Lower	Upper
106	100		
108	86.8	65.6	125.6
81	103.9	0.0	43.9#

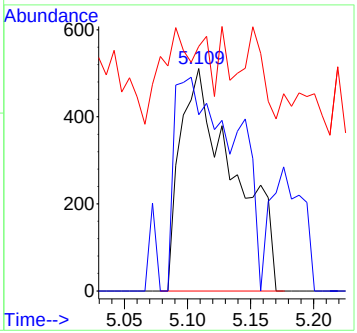


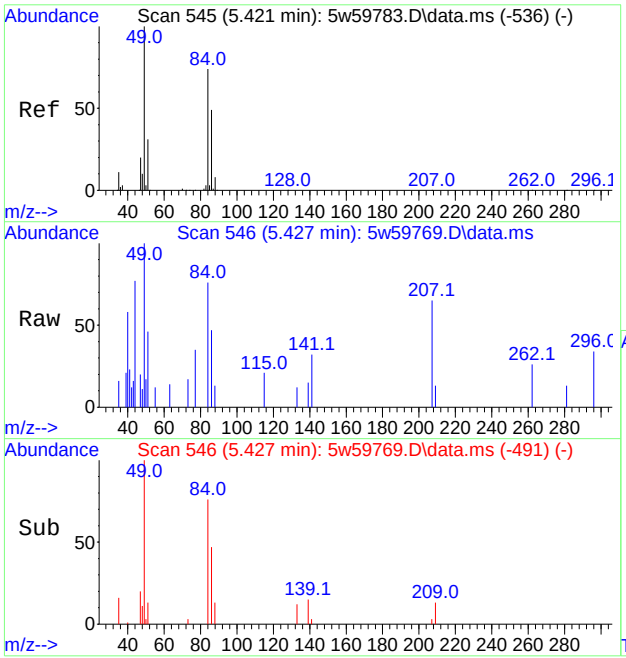


#30
ACRYLONITRILE
Concen: 0.05 PPBV
RT: 5.109 min Scan# 494
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 1514

Ion	Ratio	Lower	Upper
52	100		
53	107.2	85.8	159.4
51	0.0	32.3	60.1#

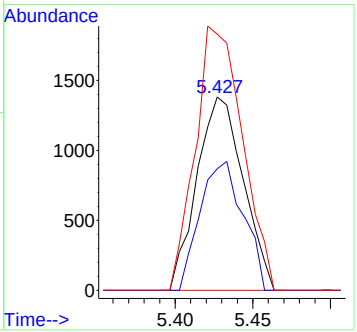


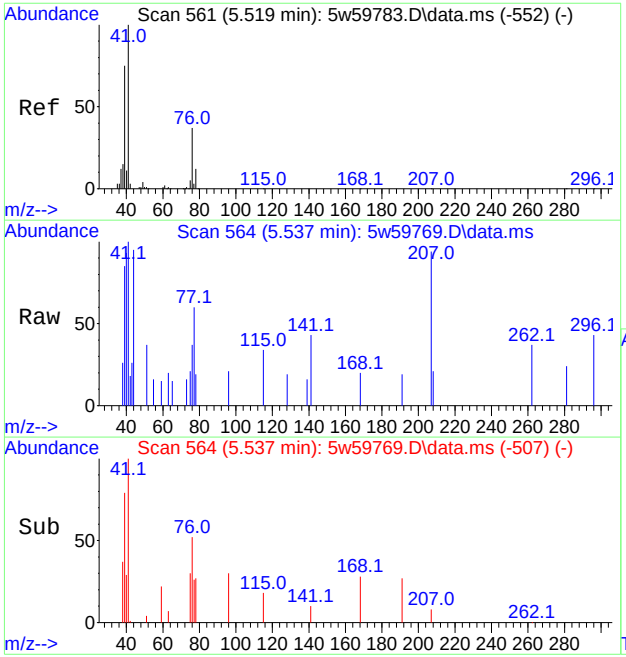


#31
METHYLENE CHLORIDE
Concen: 0.06 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2871

Ion	Ratio	Lower	Upper
84	100		
86	61.9	35.2	95.2
49	139.0	105.3	165.3

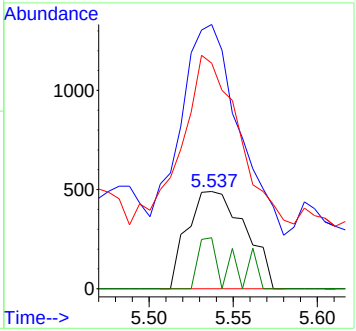


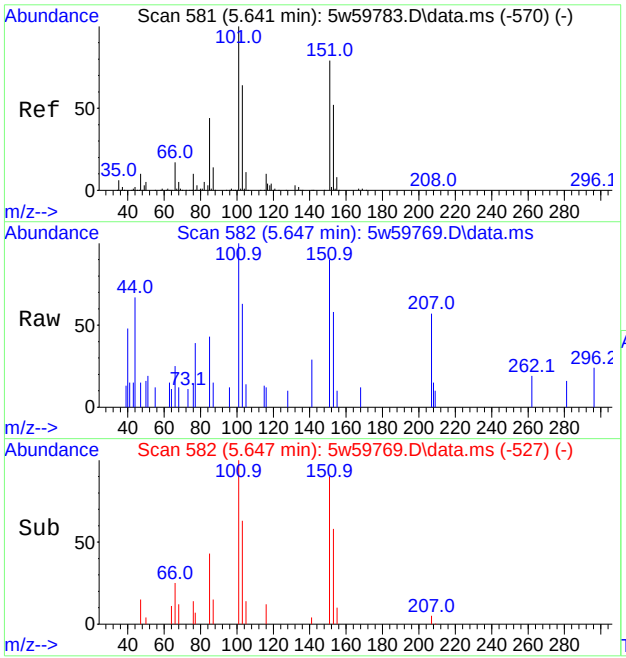


#32
3-CHLOROPROPENE
Concen: 0.05 PPBV
RT: 5.537 min Scan# 564
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 1170

Ion	Ratio	Lower	Upper
76	100		
41	199.4	240.8	300.8#
39	168.5	173.6	233.6#
78	15.9	2.8	62.8

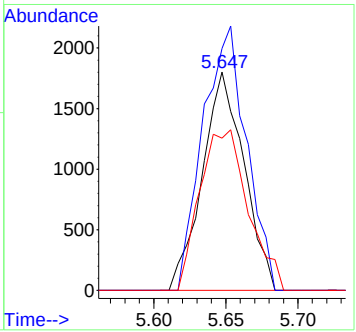


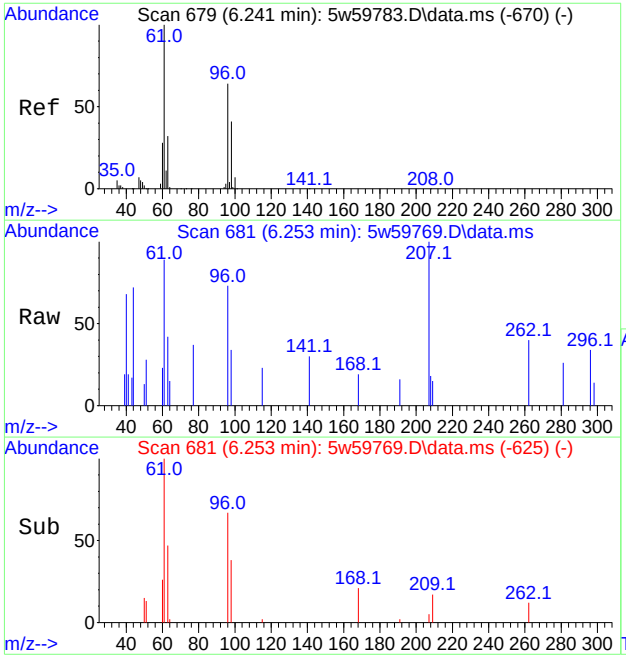


#33
FREON 113
Concen: 0.04 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:151 Resp: 3628

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	85.4	52.5	112.5

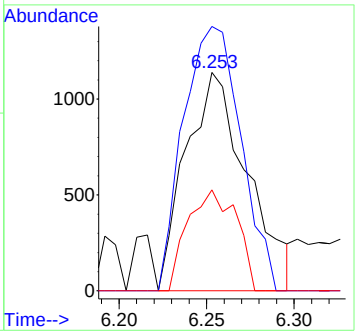


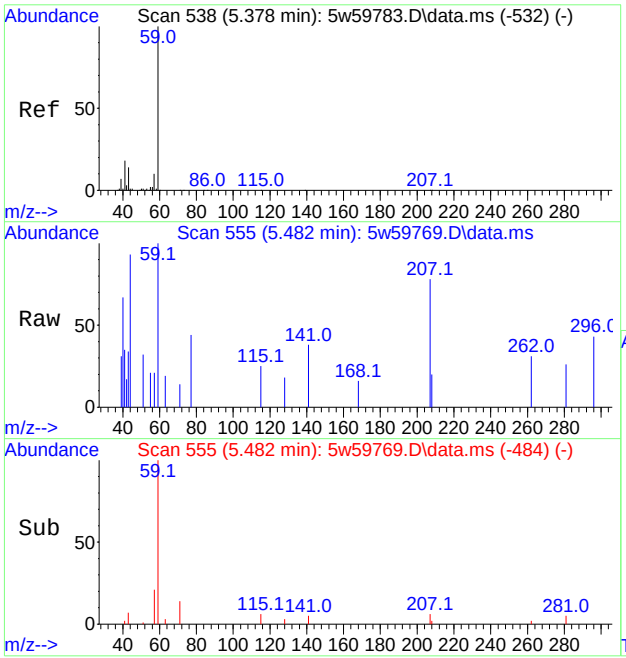


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.05 PPBV m
RT: 6.253 min Scan# 681
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2781

Ion	Ratio	Lower	Upper
96	100		
61	113.3	126.4	186.4#
98	36.7	34.1	94.1

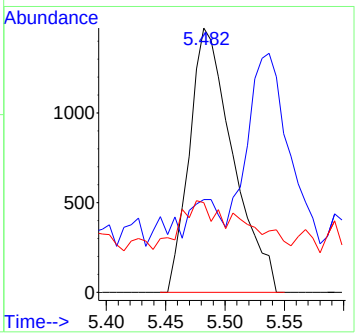


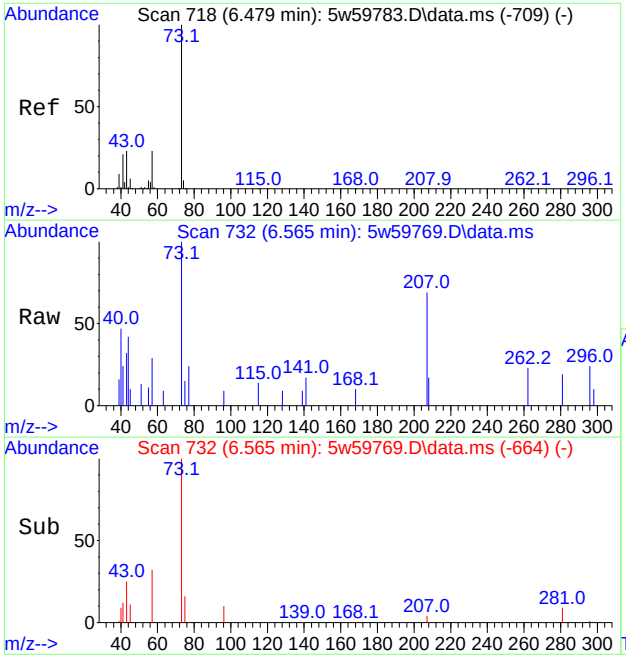


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.04 PPBV
RT: 5.482 min Scan# 555
Delta R.T. 0.104 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 3750

Ion	Ratio	Lower	Upper
59	100		
41	11.0	0.0	49.3
43	25.6	0.0	44.1

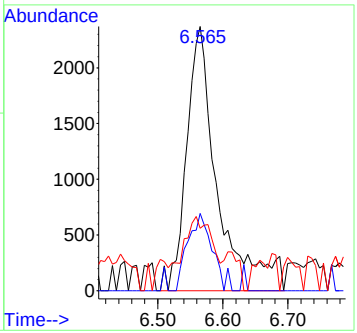


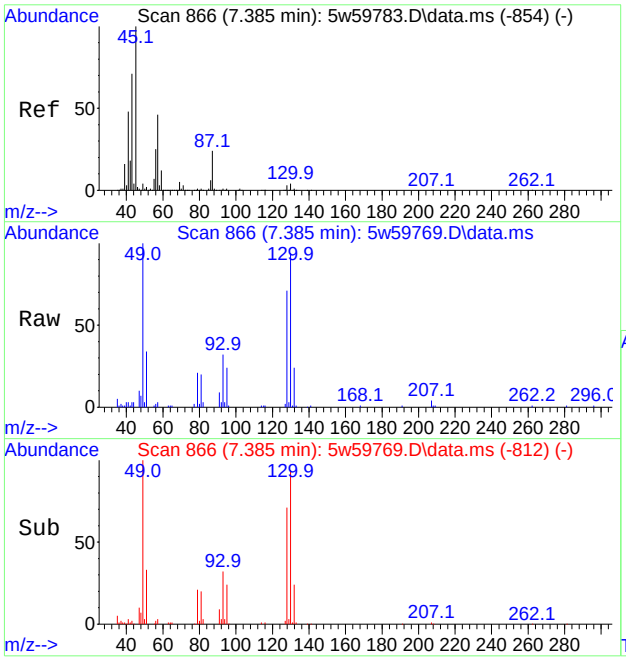


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.06 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.086 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 73 Resp: 7842

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	30.5	0.0	50.6

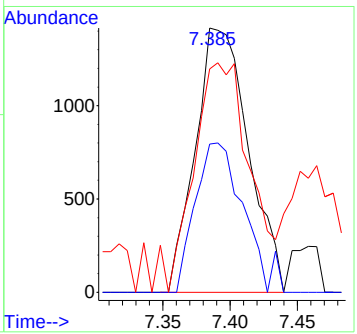


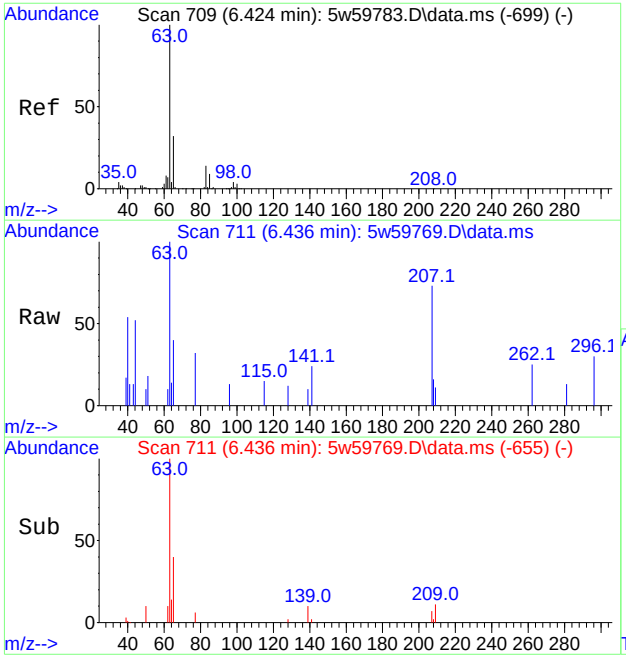


#38
HEXANE
Concen: 0.05 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 3894

Ion	Ratio	Lower	Upper
57	100		
56	51.6	25.9	85.9
41	90.7	74.7	134.7

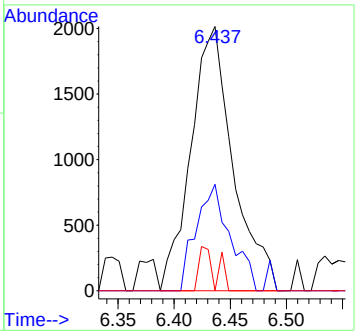


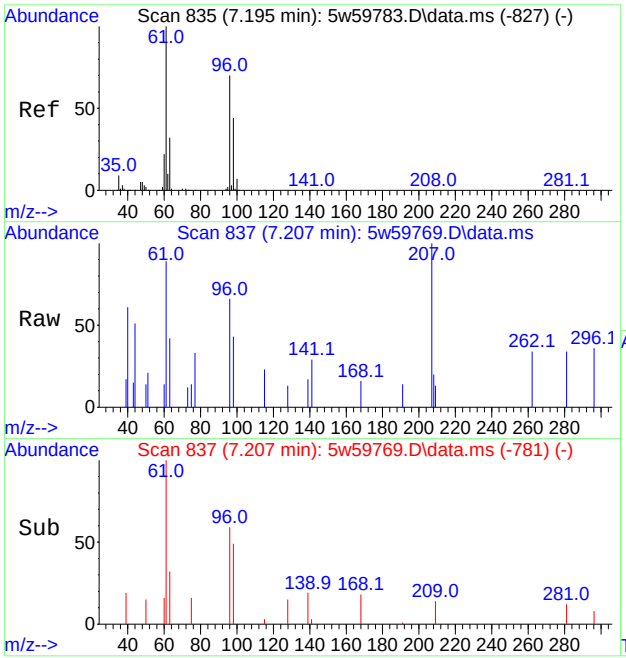


#40
1,1-DICHLOROETHANE
Concen: 0.06 PPBV
RT: 6.436 min Scan# 711
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 5305

Ion	Ratio	Lower	Upper
63	100		
65	32.5	1.7	61.7
83	6.6	0.0	43.5

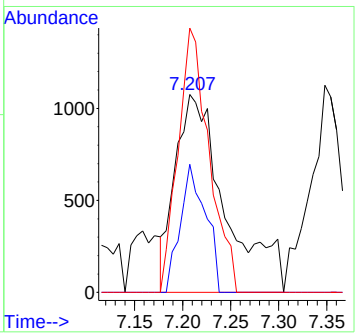


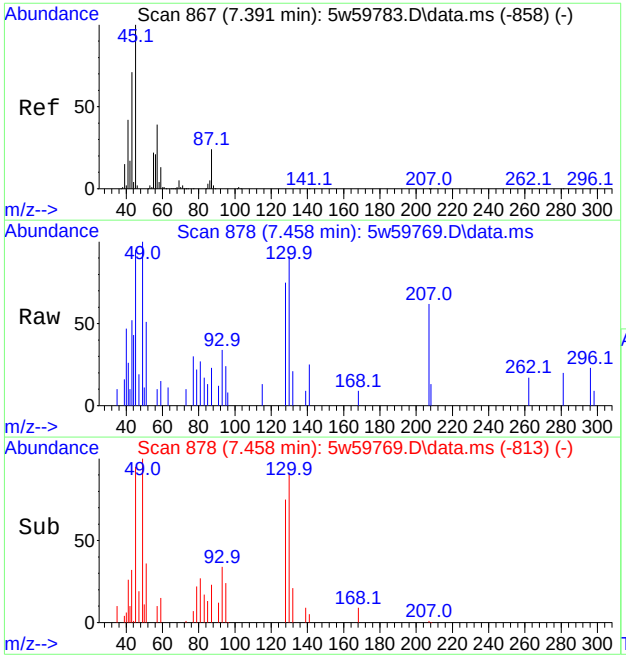


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.07 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 3901

Ion	Ratio	Lower	Upper
96	100		
98	32.6	34.0	94.0#
61	82.7	111.5	171.5#

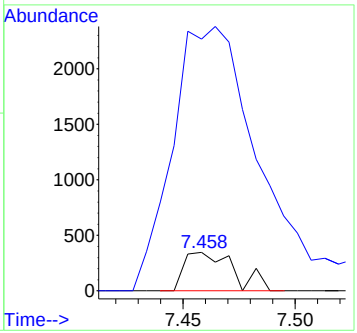


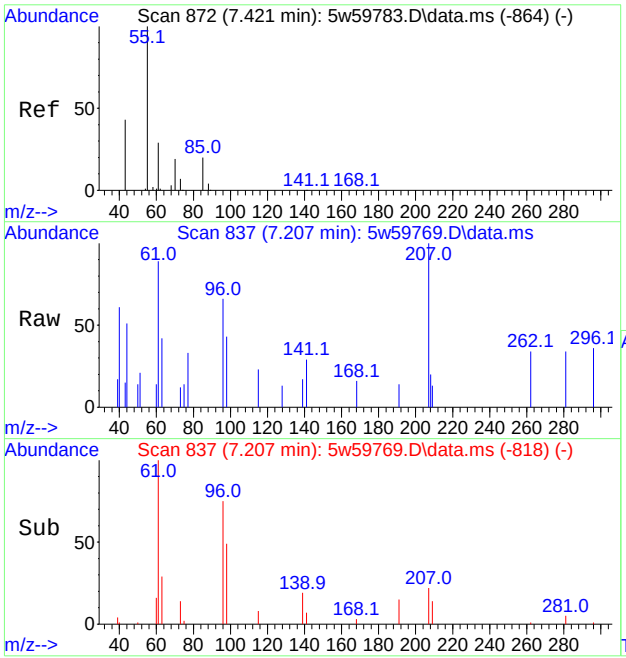


#43
DIISOPROPYL ETHER
Concen: 0.03 PPBV
RT: 7.458 min Scan# 878
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 536

Ion	Ratio	Lower	Upper
59	100		
45	1232.1	720.9	780.9#

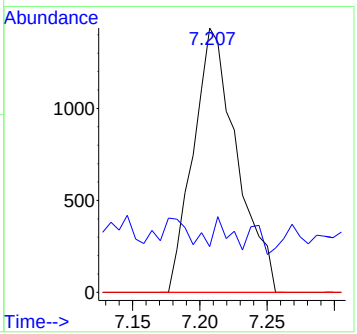


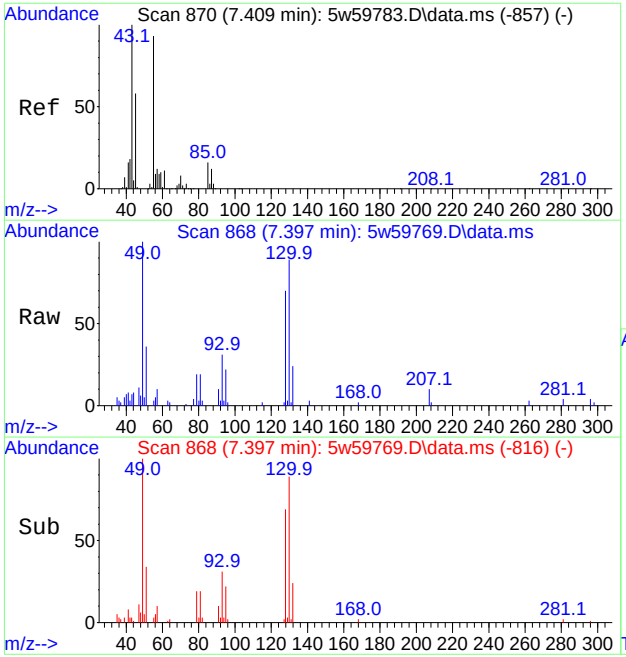


#44
ETHYL ACETATE
Concen: 0.23 PPBV
RT: 7.207 min Scan# 837
Delta R.T. -0.214 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 61 Resp: 3226

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	0.0	4.5	64.5#

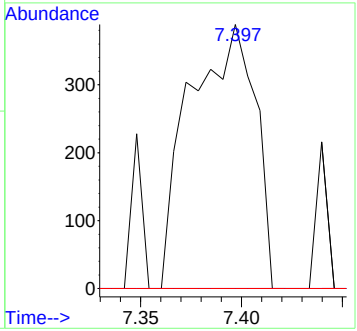


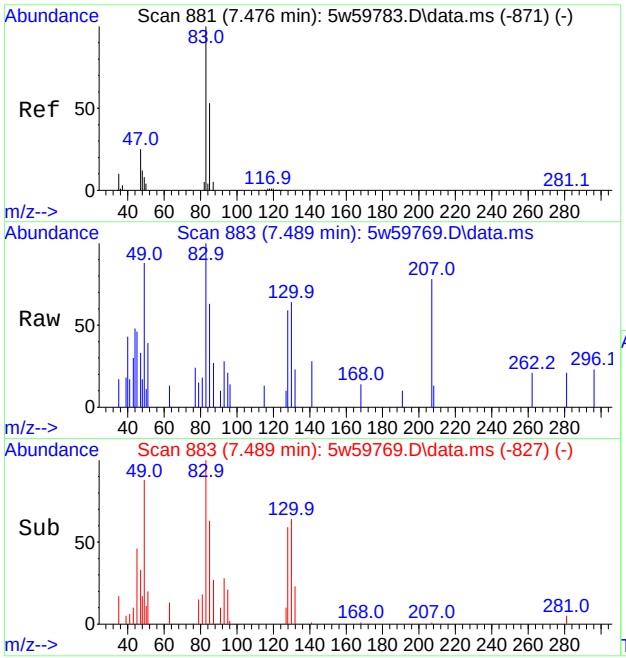


#45
METHYL ACRYLATE
Concen: 0.01 PPBV
RT: 7.397 min Scan# 868
Delta R.T. -0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 55 Resp: 878

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

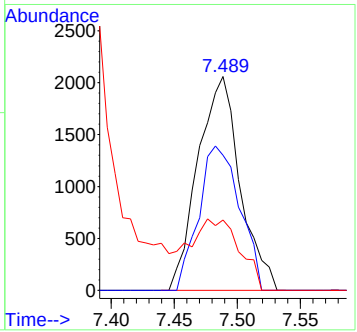


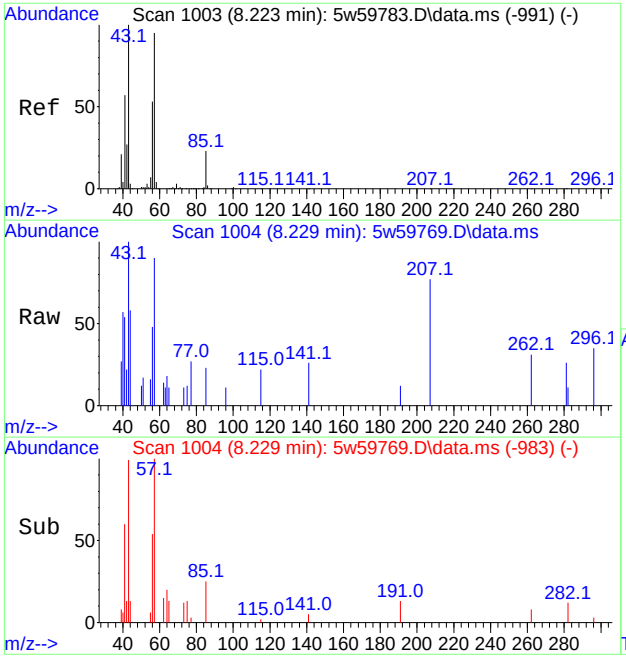


#46
CHLOROFORM
Concen: 0.05 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4783

Ion	Ratio	Lower	Upper
83	100		
85	65.9	35.6	95.6
47	0.0	0.0	55.2

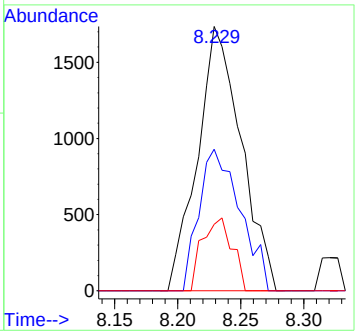


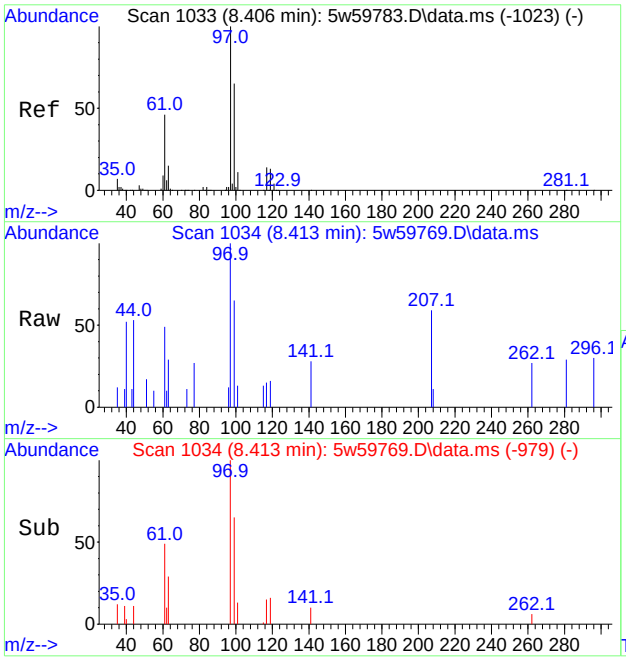


#47
2,4-DIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 4175

Ion	Ratio	Lower	Upper
57	100		
56	50.5	26.5	86.5
85	18.8	0.0	53.8

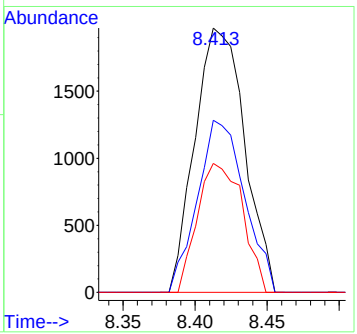


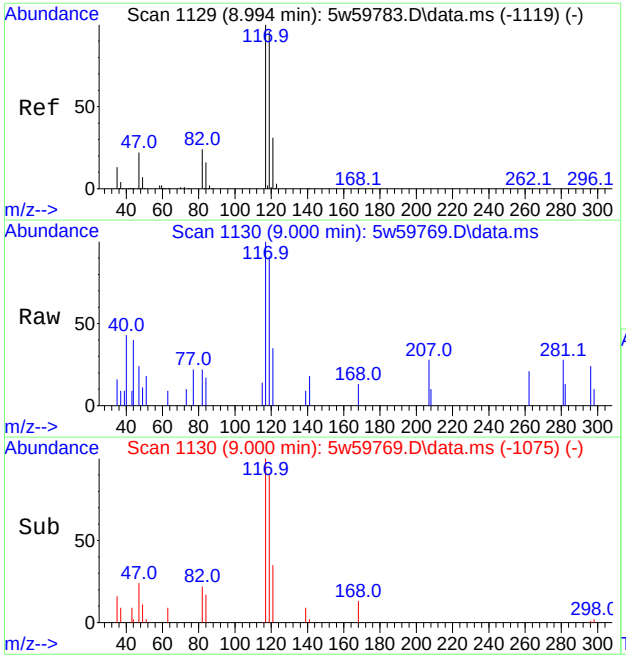


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 97 Resp: 4728

Ion	Ratio	Lower	Upper
97	100		
99	61.8	34.8	94.8
61	44.4	15.8	75.8

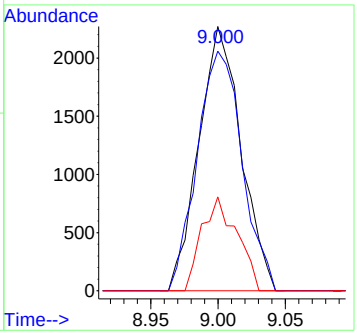


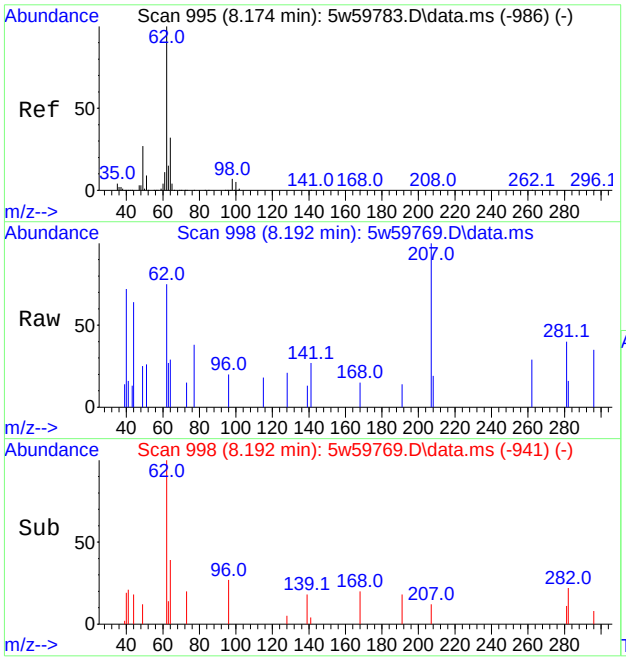


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4970

Ion	Ratio	Lower	Upper
117	100		
119	96.1	66.9	126.9
121	29.5	1.3	61.3

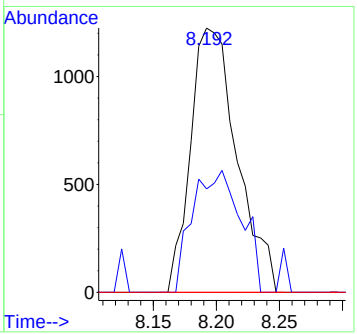


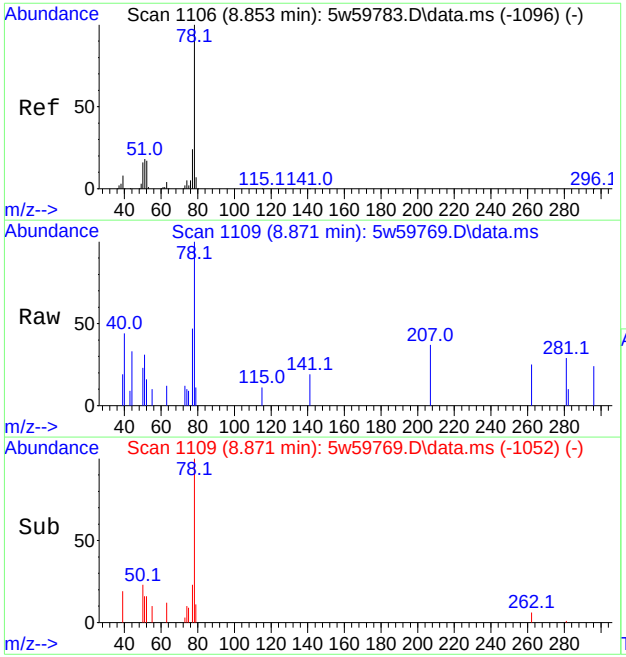


#50
1,2-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.192 min Scan# 998
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 3147

Ion	Ratio	Lower	Upper
62	100		
64	48.3	2.3	62.3
98	0.0	0.0	36.9

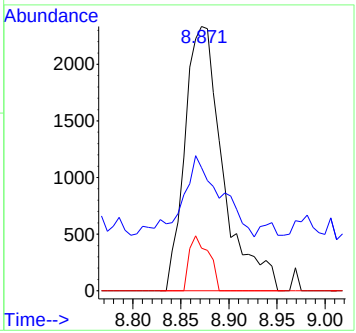


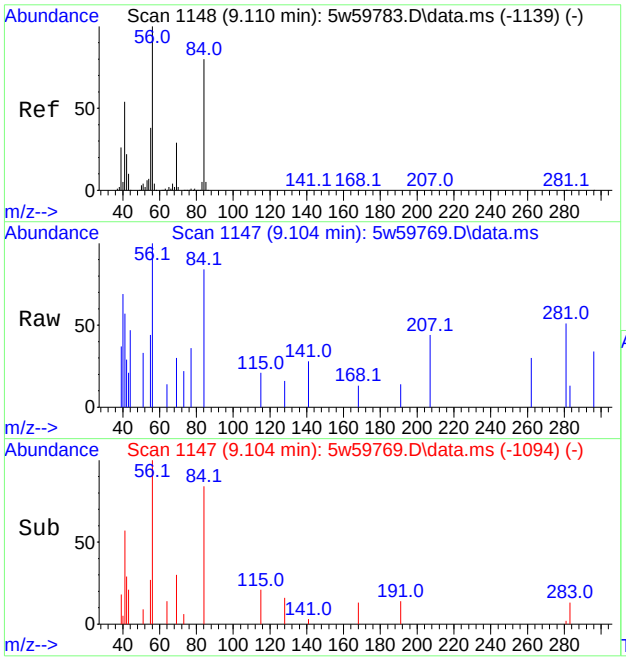


#52
BENZENE
Concen: 0.05 PPBV
RT: 8.871 min Scan# 1109
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 78 Resp: 6471

Ion	Ratio	Lower	Upper
78	100		
77	31.7	0.0	53.8
52	10.6	0.0	46.9

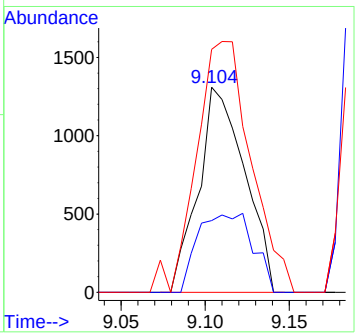


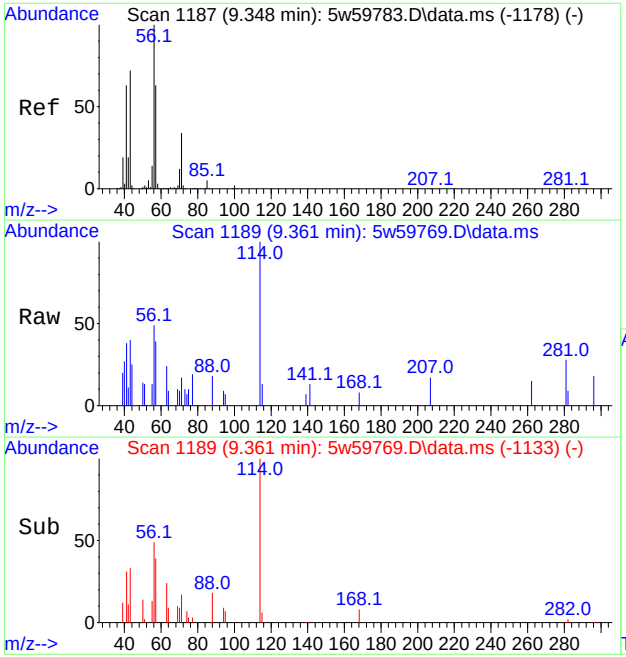


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2517

Ion	Ratio	Lower	Upper
84	100		
69	45.4	6.9	66.9
56	143.8	98.2	158.2

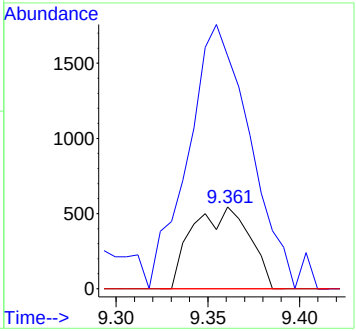


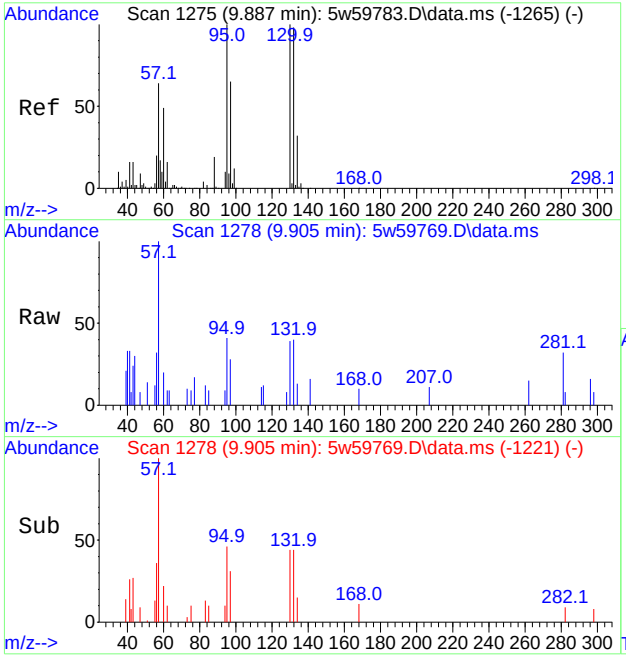


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 71 Resp: 1176

Ion	Ratio	Lower	Upper
71	100		
56	356.8	264.6	324.6#
85	0.0	0.0	45.3

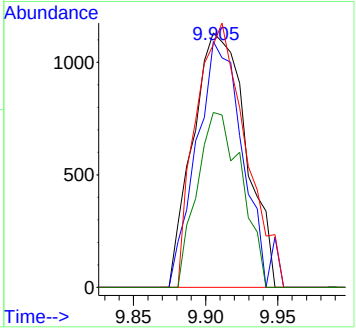


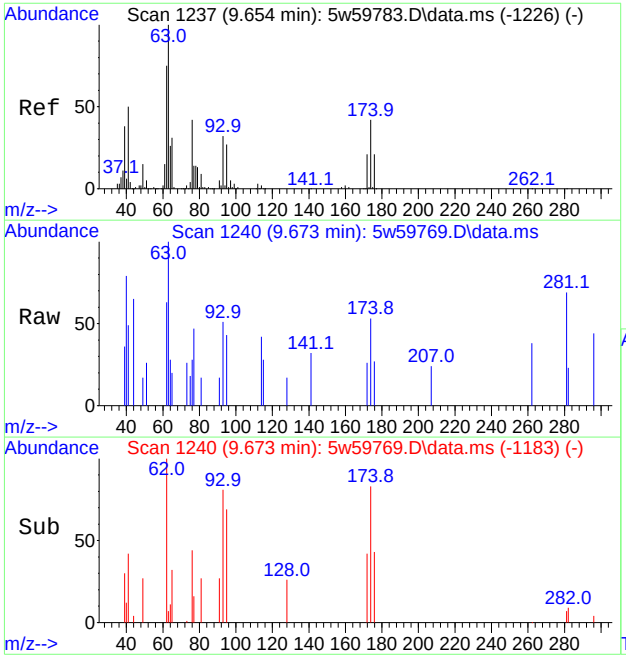


#55
TRICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 9.905 min Scan# 1278
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 95 Resp: 2913

Ion	Ratio	Lower	Upper
95	100		
132	84.8	69.0	129.0
130	97.2	70.6	130.6
97	57.5	34.6	94.6

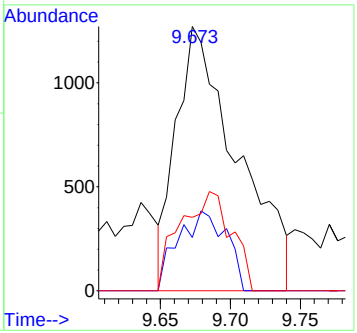


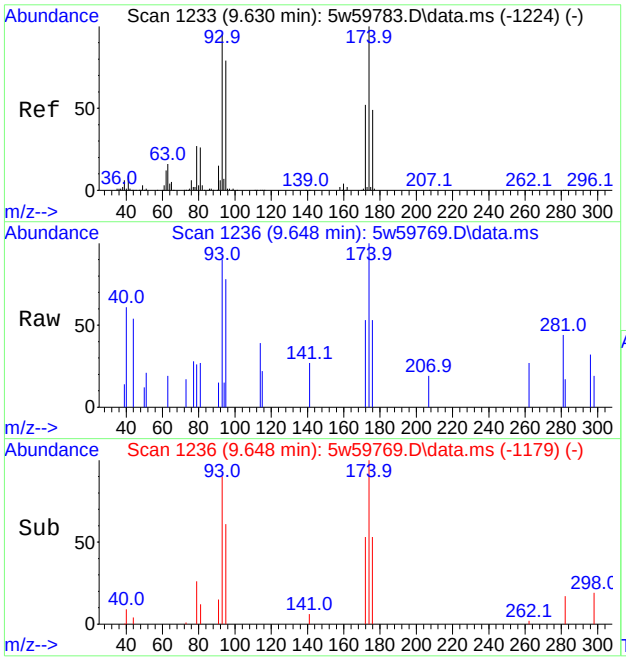


#56
1,2-DICHLOROPROPANE
Concen: 0.06 PPBV m
RT: 9.673 min Scan# 1240
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 3887

Ion	Ratio	Lower	Upper
63	100		
65	23.5	0.5	60.5
76	31.3	11.5	71.5

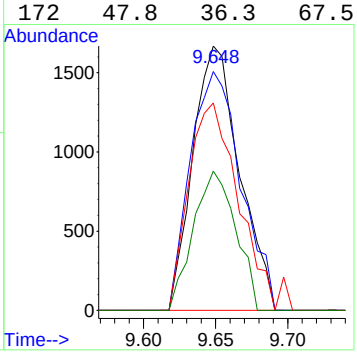


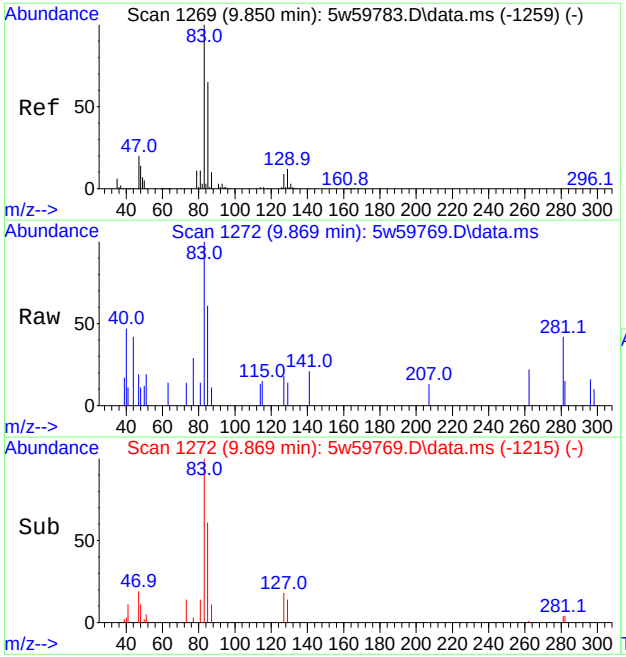


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:174 Resp: 3768

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	84.4	54.5	101.1
172	47.8	36.3	67.5

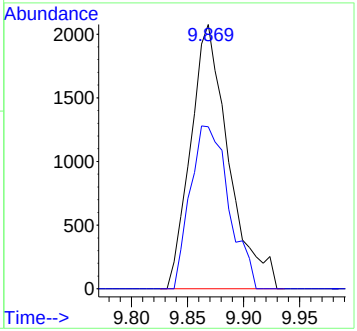


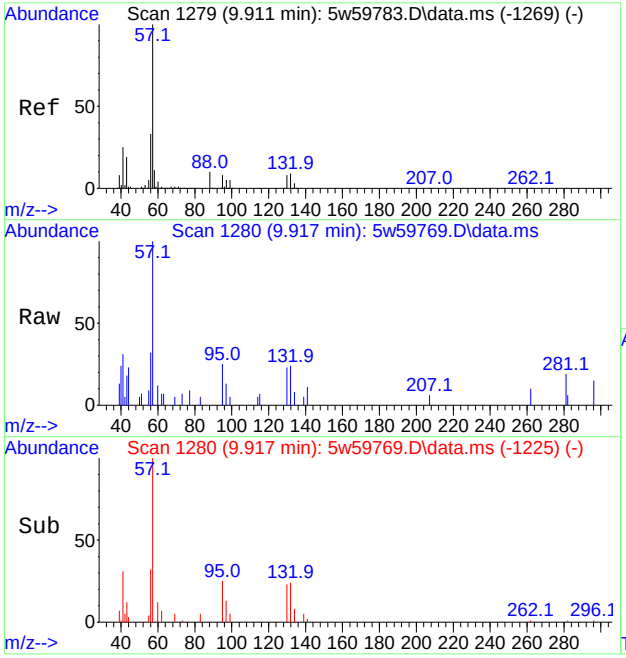


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 9.869 min Scan# 1272
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4912

Ion	Ratio	Lower	Upper
83	100		
85	62.2	33.4	93.4

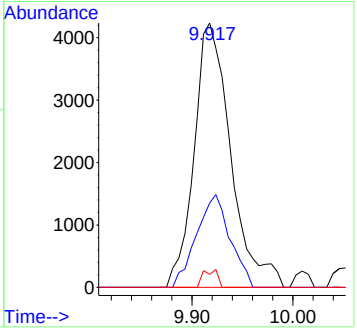


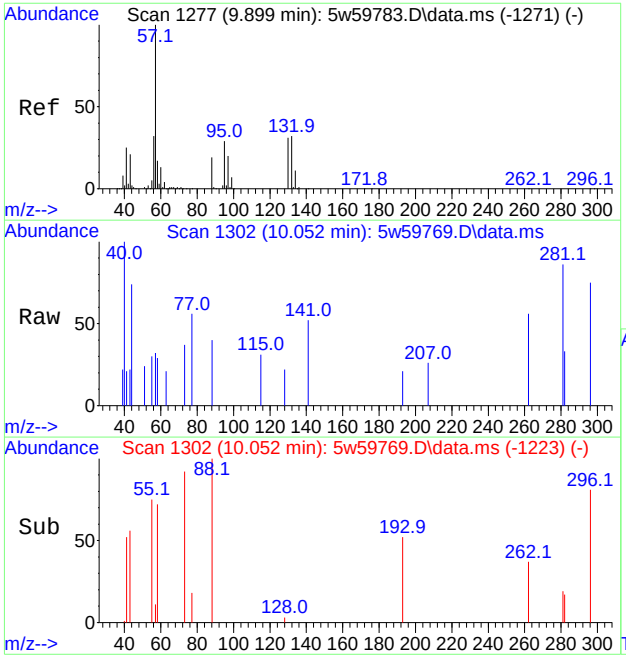


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 10699

Ion	Ratio	Lower	Upper
57	100		
56	32.2	2.5	62.5
99	2.6	0.0	37.3

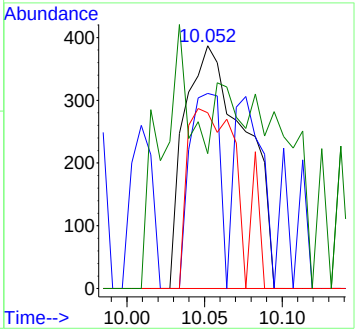


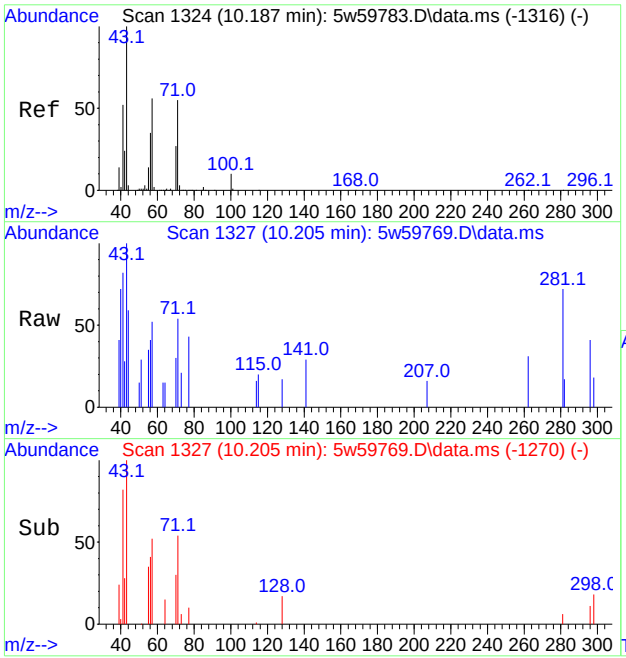


#61
1,4-DIOXANE
Concen: 0.03 PPBV
RT: 10.052 min Scan# 1302
Delta R.T. 0.153 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 88 Resp: 1059

Ion	Ratio	Lower	Upper
88	100		
57	80.4	494.2	554.2#
58	72.4	58.9	118.9
43	55.6	78.3	138.3#

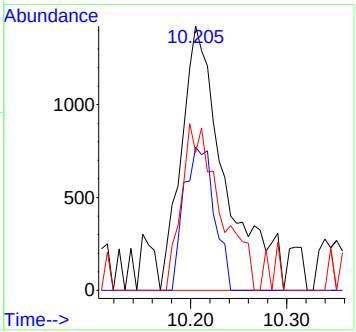


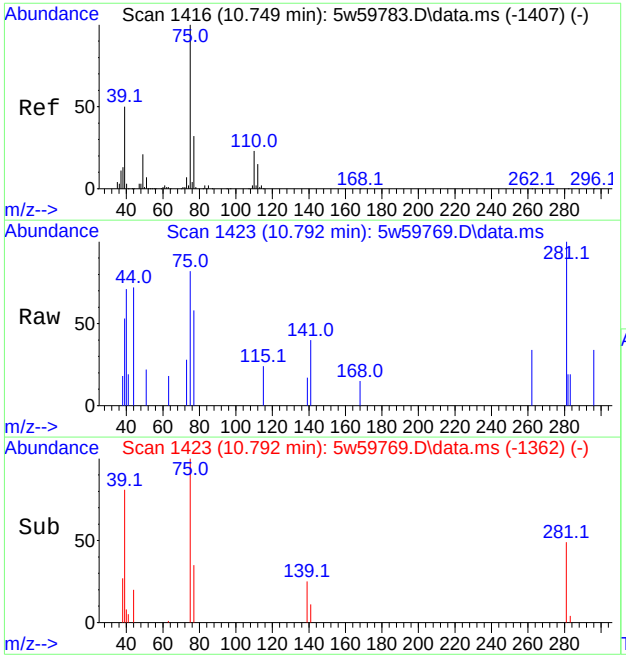


#62
HEPTANE
Concen: 0.06 PPBV
RT: 10.205 min Scan# 1327
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 4522

Ion	Ratio	Lower	Upper
43	100		
71	37.6	24.5	84.5
57	55.7	26.2	86.2

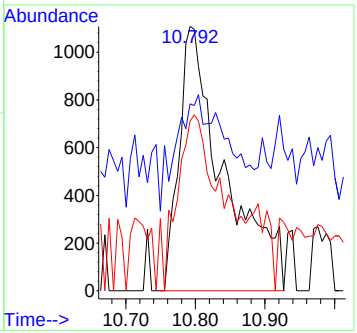


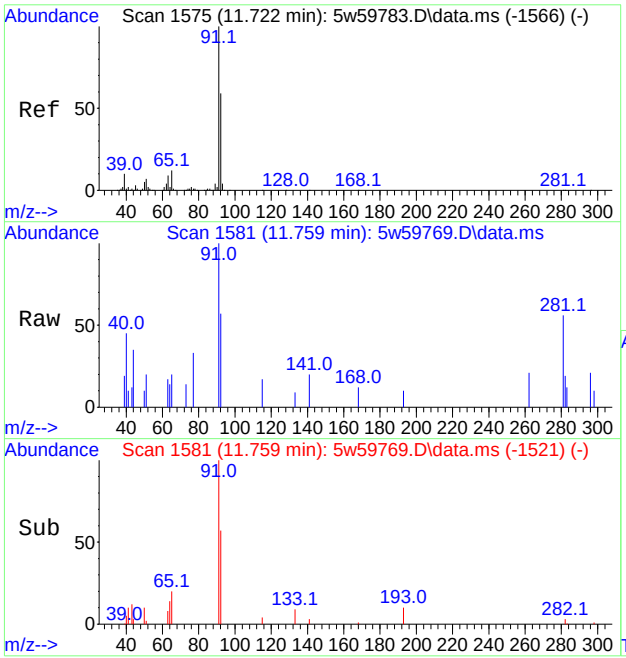


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4969

Ion	Ratio	Lower	Upper
75	100		
77	49.8	2.2	62.2
39	78.5	34.3	94.3

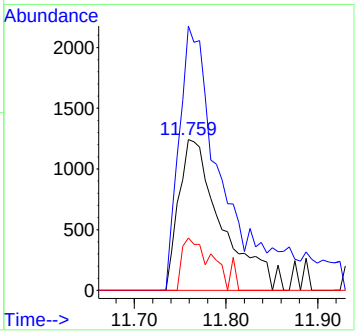


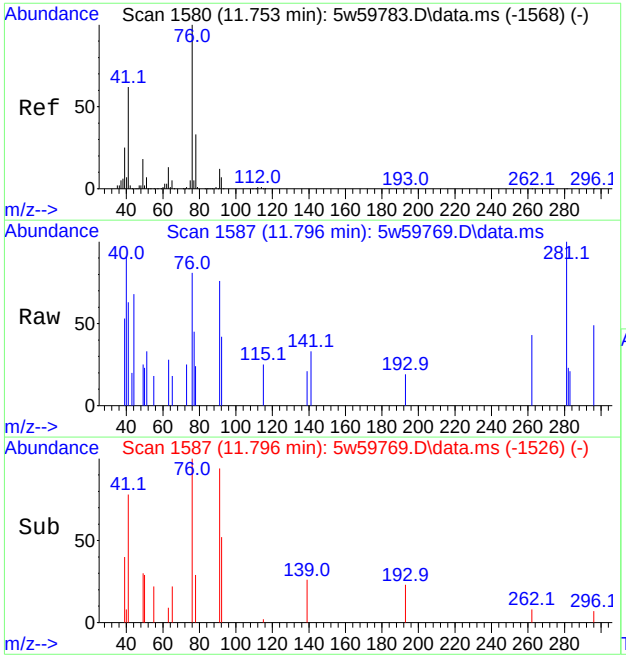


#66
TOLUENE
Concen: 0.04 PPBV
RT: 11.759 min Scan# 1581
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 92 Resp: 4059

Ion	Ratio	Lower	Upper
92	100		
91	195.5	140.1	200.1
65	22.8	0.0	53.1

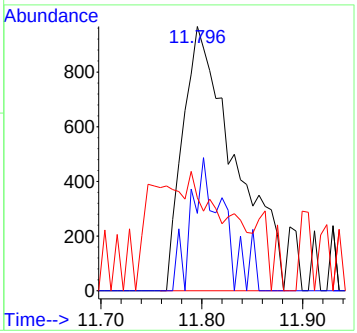


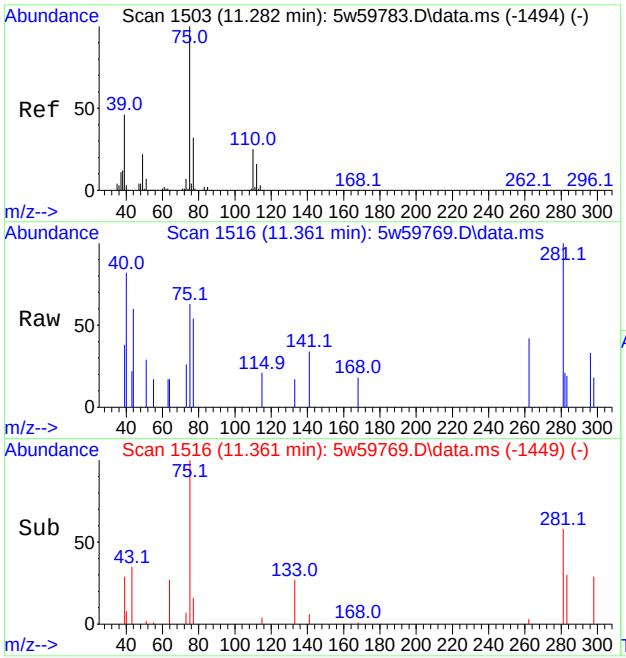


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 11.796 min Scan# 1587
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 3478

Ion	Ratio	Lower	Upper
76	100		
78	27.2	23.2	43.0
63	71.6	7.1	13.1#

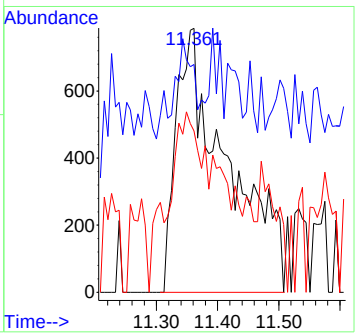


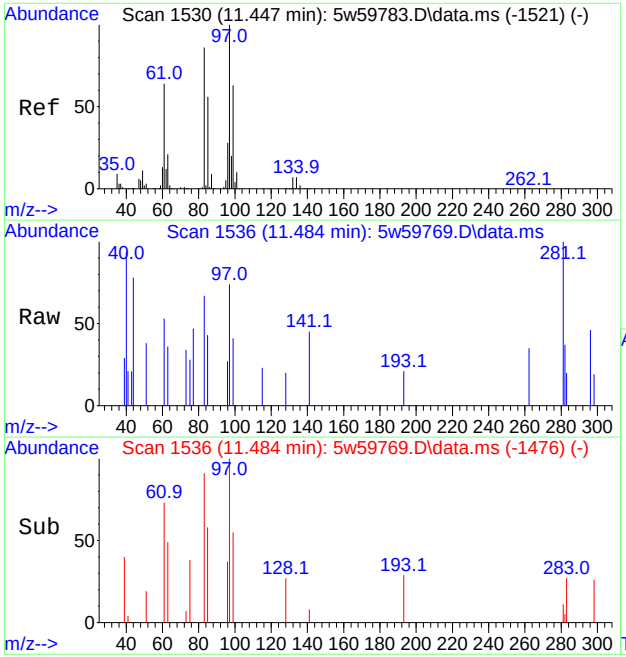


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 11.361 min Scan# 1516
Delta R.T. 0.079 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4586

Ion	Ratio	Lower	Upper
75	100		
77	16.9	1.6	61.6
39	35.7	16.1	76.1

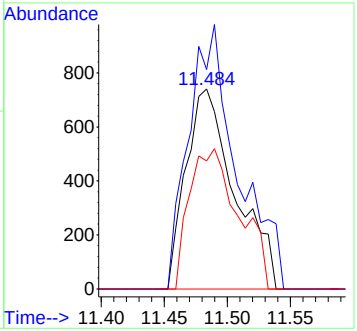


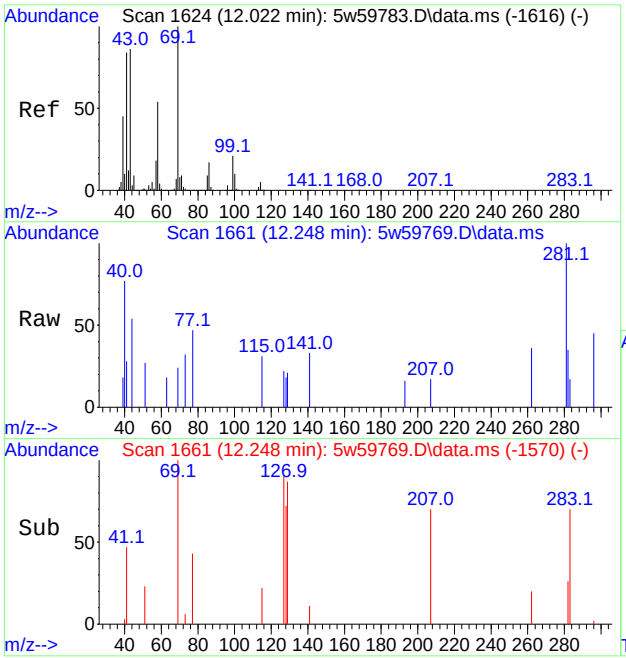


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 11.484 min Scan# 1536
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 2006

Ion	Ratio	Lower	Upper
83	100		
97	130.6	86.3	146.3
85	70.5	35.3	95.3

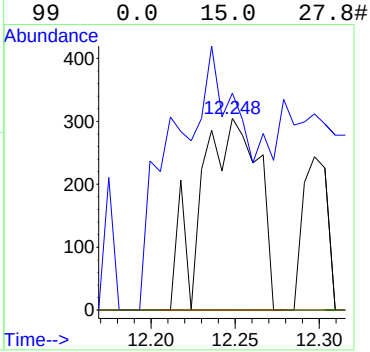


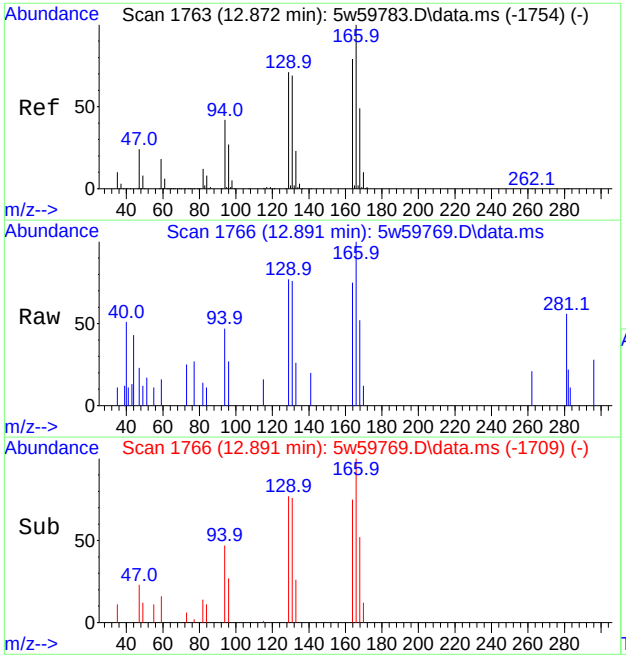


#72
ETHYL METHACRYLATE
Concen: 0.01 PPBV
RT: 12.248 min Scan# 1661
Delta R.T. 0.226 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 69 Resp: 735

Ion	Ratio	Lower	Upper
69	100		
41	291.7	64.0	119.0#
86	0.0	12.0	22.4#
99	0.0	15.0	27.8#

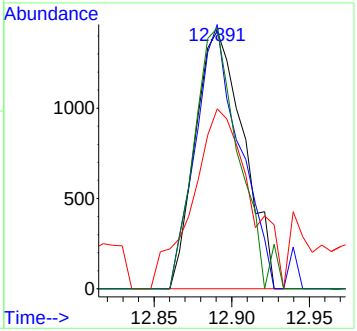


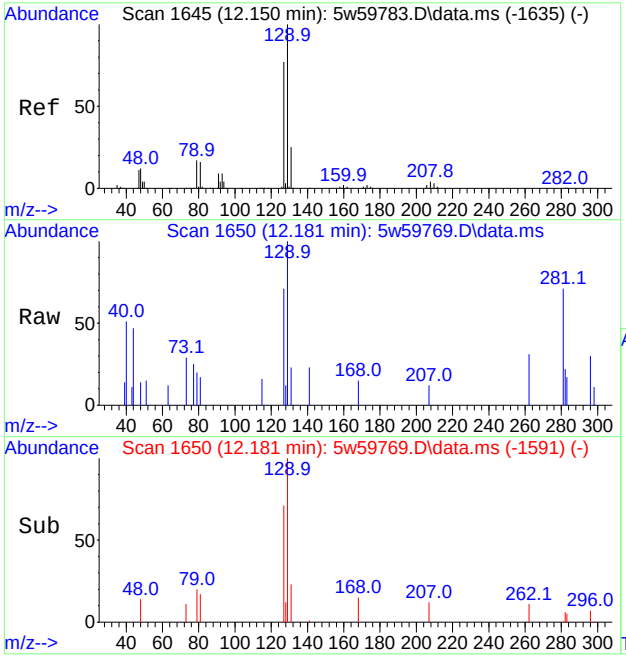


#73
TETRACHLOROETHYLENE
Concen: 0.04 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:164 Resp: 3089

Ion	Ratio	Lower	Upper
164	100		
129	93.4	59.7	119.7
168	83.4	32.2	92.2
131	92.9	57.8	117.8

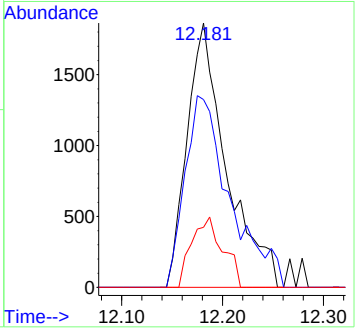


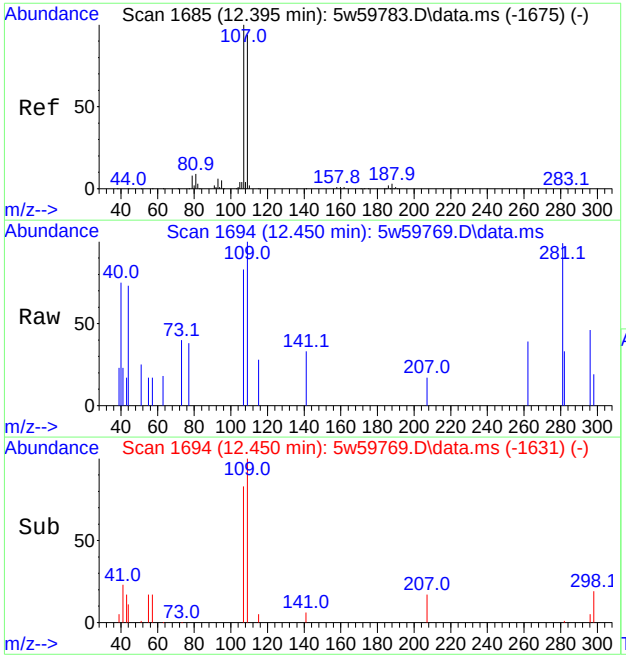


#74
DIBROMOCHLOROMETHANE
Concen: 0.04 PPBV
RT: 12.181 min Scan# 1650
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:129 Resp: 5067

Ion	Ratio	Lower	Upper
129	100		
127	82.7	47.1	107.1
131	21.0	0.0	54.5

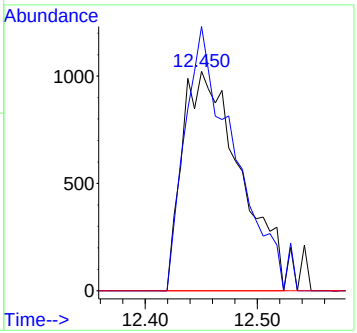


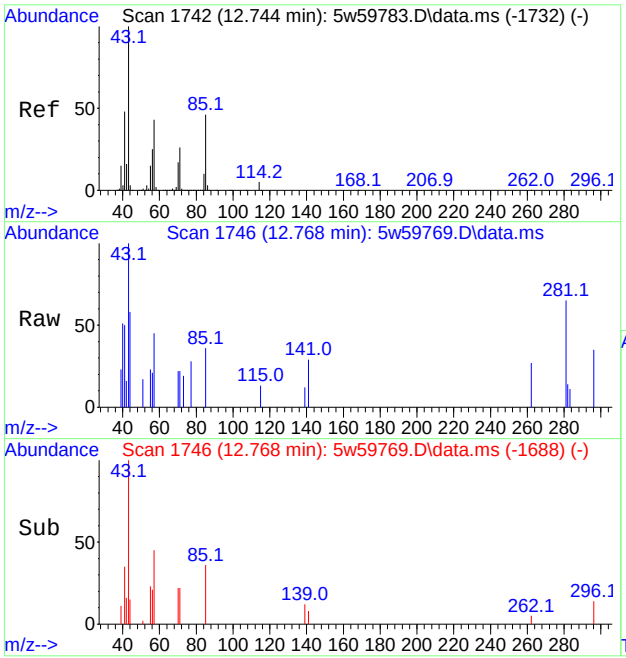


#75
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 12.450 min Scan# 1694
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:107 Resp: 3668

Ion	Ratio	Lower	Upper
107	100		
109	103.5	64.8	124.8
188	0.0	0.0	32.8

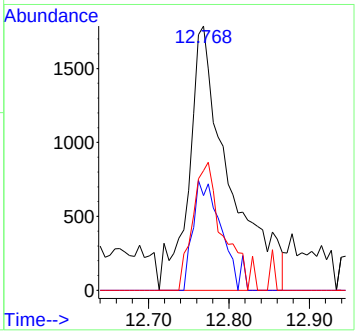


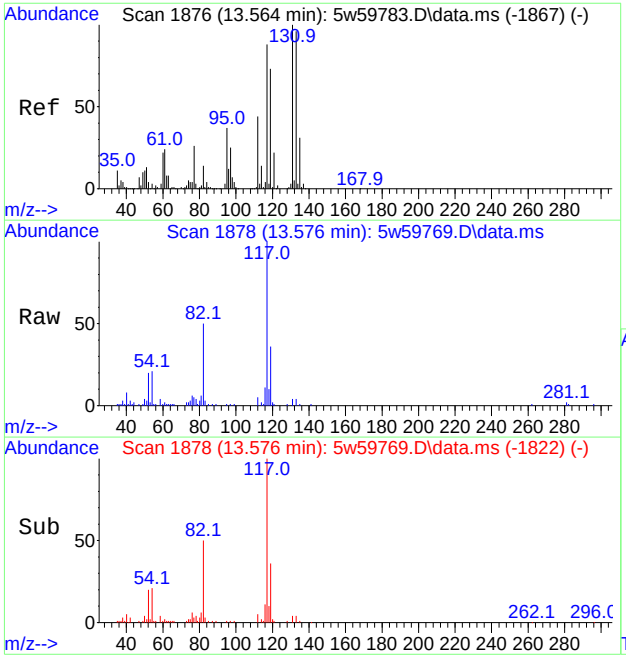


#76
OCTANE
Concen: 0.07 PPBV m
RT: 12.768 min Scan# 1746
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 6243

Ion	Ratio	Lower	Upper
43	100		
85	29.3	14.6	74.6
57	37.0	13.7	73.7

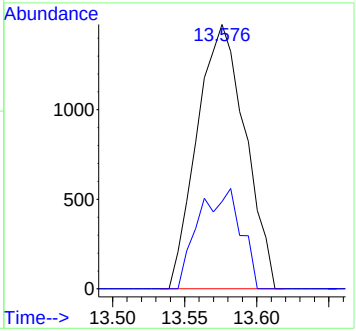


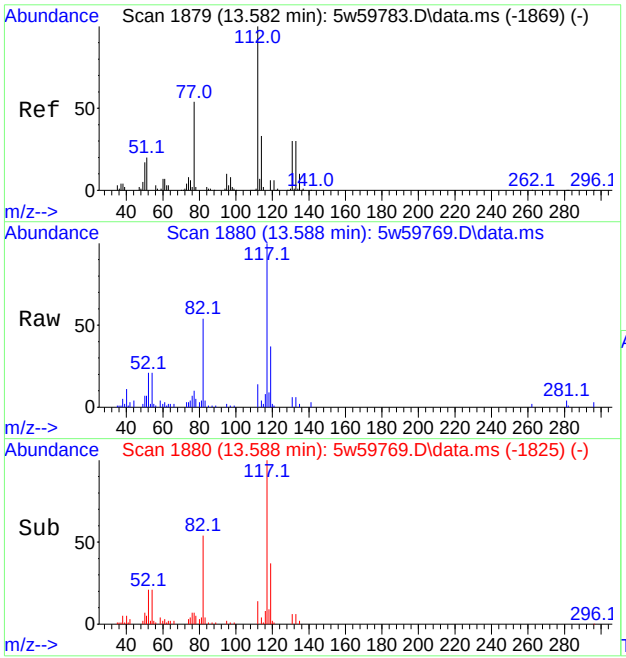


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:131 Resp: 3434

Ion	Ratio	Lower	Upper
131	100		
95	33.4	6.5	66.5

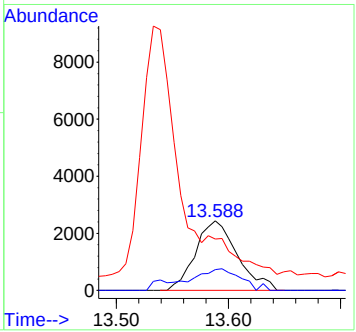


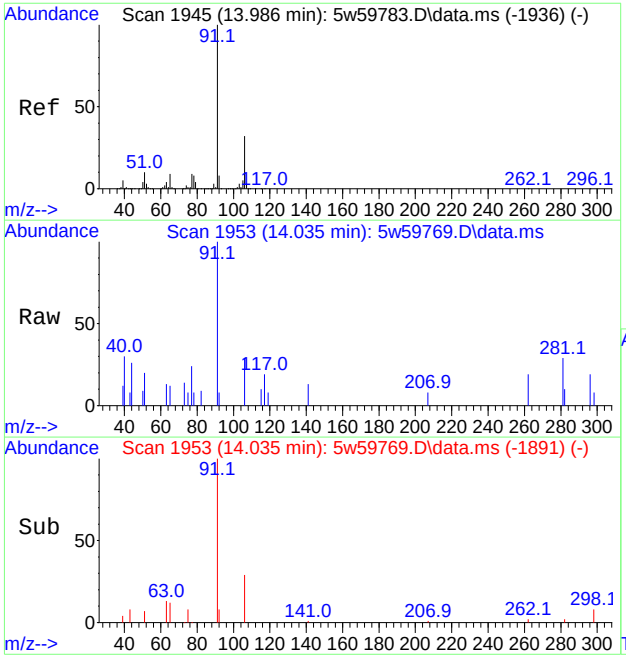


#78
CHLOROBENZENE
Concen: 0.05 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:112 Resp: 6320

Ion	Ratio	Lower	Upper
112	100		
114	30.4	2.6	62.6
77	0.0	25.4	85.4#

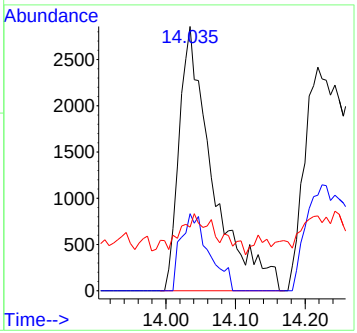


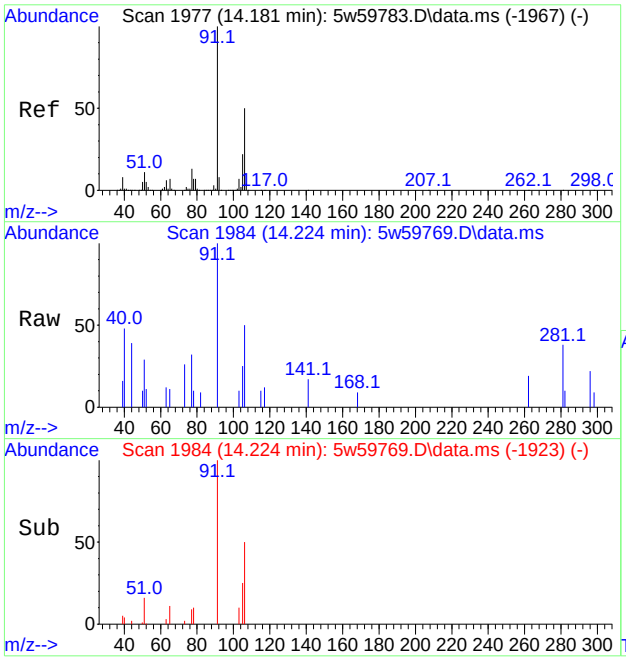


#79
ETHYLBENZENE
Concen: 0.05 PPBV
RT: 14.035 min Scan# 1953
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 9593

Ion	Ratio	Lower	Upper
91	100		
106	24.4	1.3	61.3
77	16.4	0.0	38.6

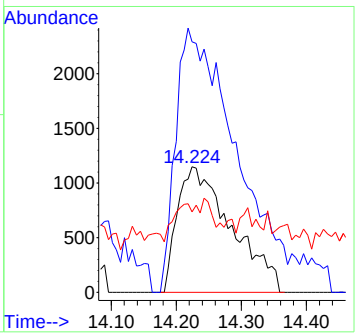


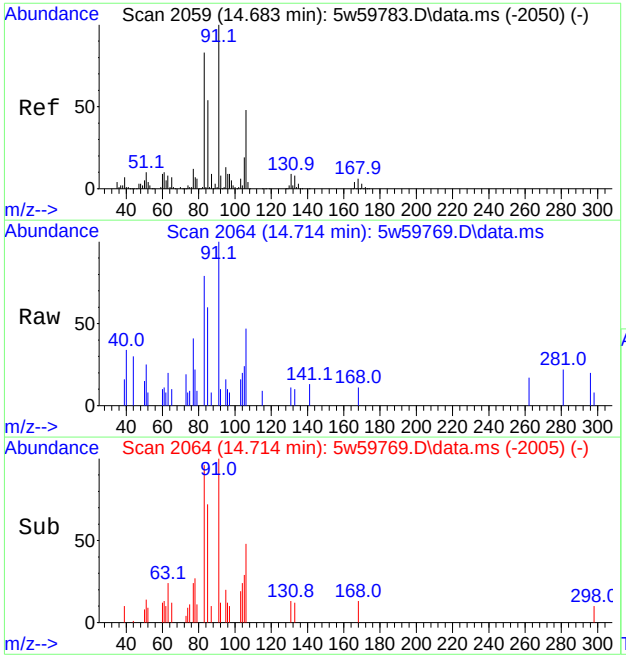


#80
m,p-XYLENE
Concen: 0.08 PPBV
RT: 14.224 min Scan# 1984
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 6608

Ion	Ratio	Lower	Upper
106	100		
91	199.7	171.0	231.0
77	64.2	0.0	56.7#

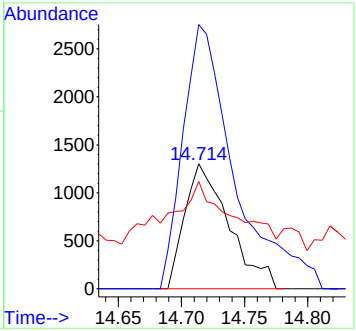


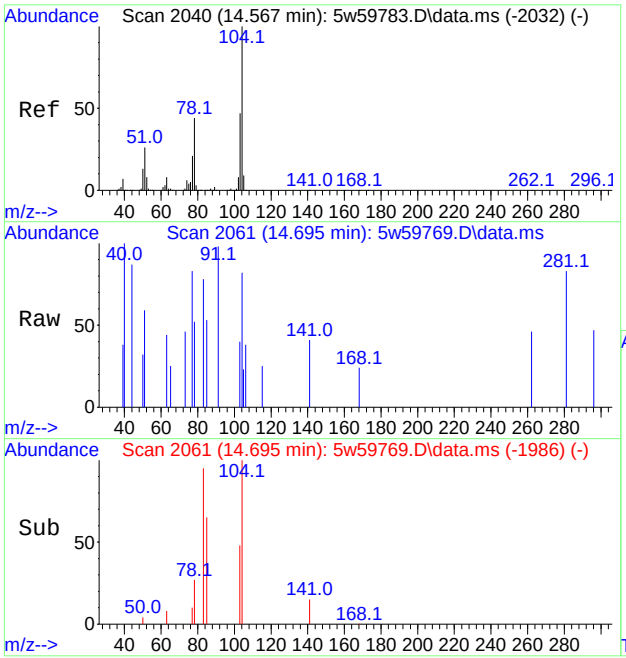


#81
o-XYLENE
Concen: 0.04 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 3154

Ion	Ratio	Lower	Upper
106	100		
91	249.6	181.6	241.6#
77	92.1	0.0	56.6#

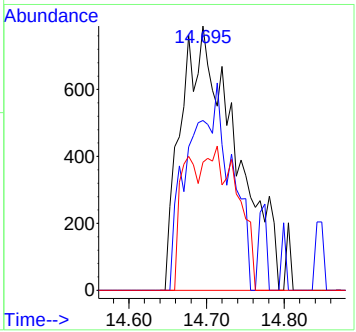


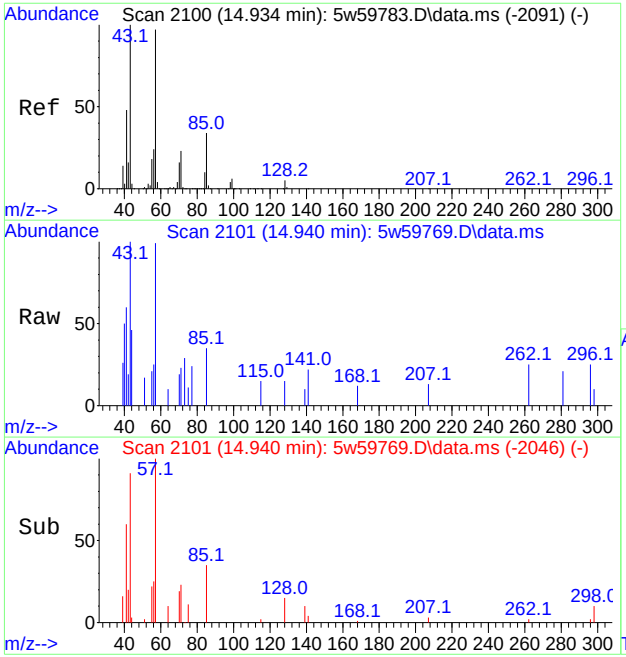


#82
STYRENE
Concen: 0.03 PPBV
RT: 14.695 min Scan# 2061
Delta R.T. 0.128 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:104 Resp: 3881

Ion	Ratio	Lower	Upper
104	100		
78	60.7	13.3	73.3
103	51.1	17.2	77.2

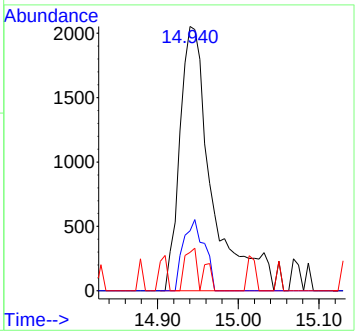


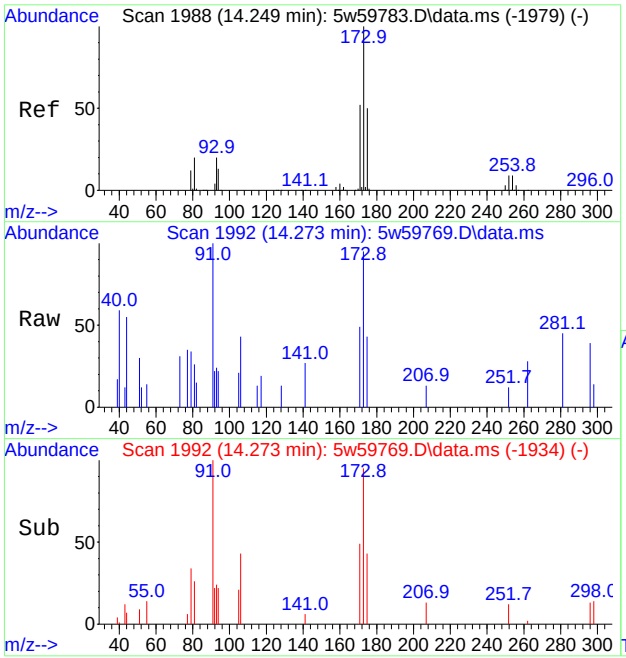


#83
NONANE
Concen: 0.06 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 5771

Ion	Ratio	Lower	Upper
43	100		
71	17.4	0.0	52.7
128	5.8	0.0	34.7

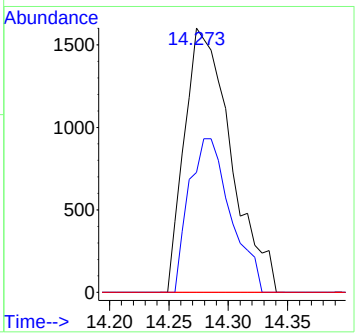


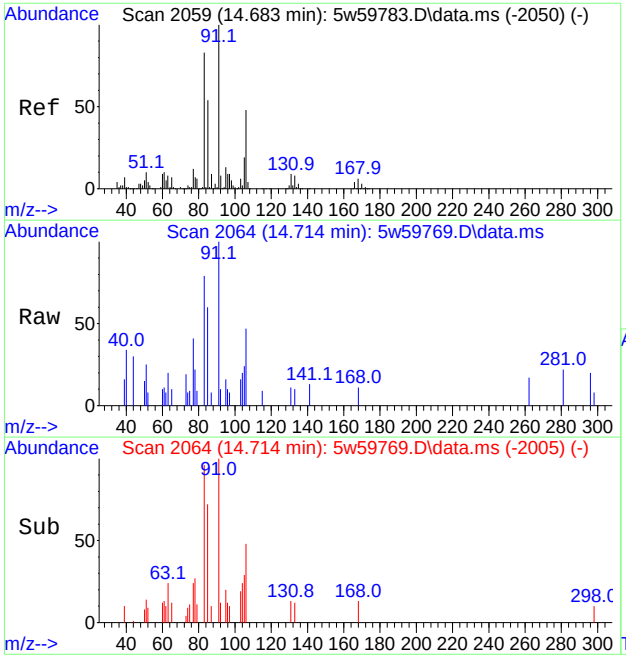


#84
BROMOFORM
Concen: 0.04 PPBV
RT: 14.273 min Scan# 1992
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:173 Resp: 4371

Ion	Ratio	Lower	Upper
173	100		
175	52.0	19.6	79.6
254	0.0	0.0	39.0

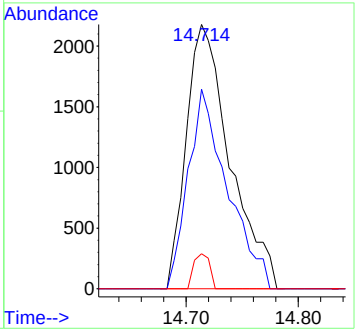


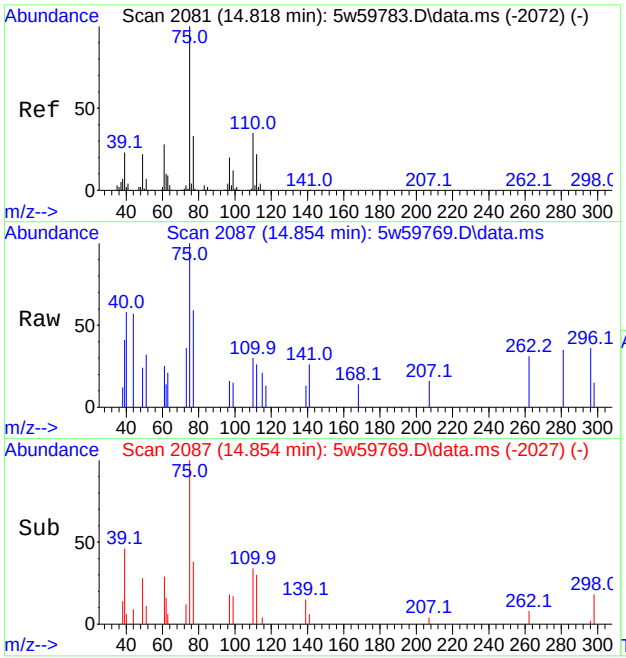


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.05 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 5918

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	4.8	0.0	40.3

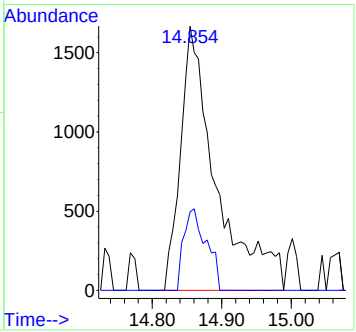


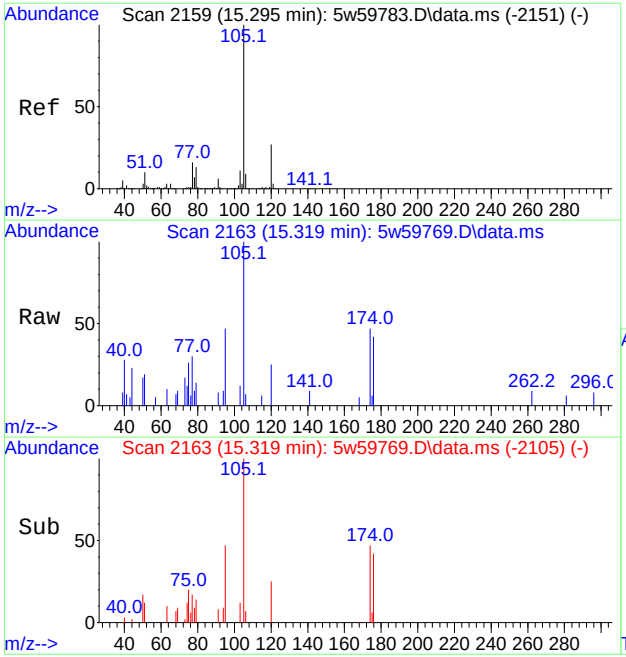


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.06 PPBV
RT: 14.854 min Scan# 2087
Delta R.T. 0.036 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 5967

Ion	Ratio	Lower	Upper
75	100		
110	19.5	4.4	64.4

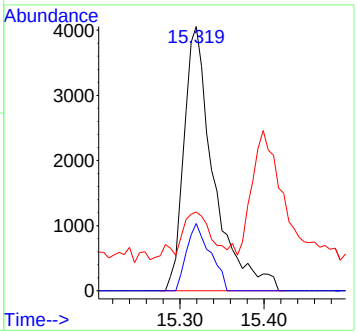


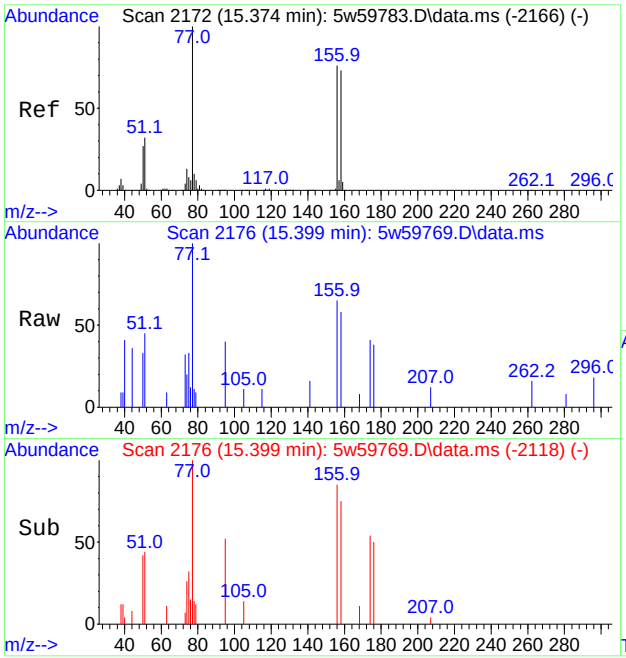


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.319 min Scan# 2163
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9953

Ion	Ratio	Lower	Upper
105	100		
120	20.2	0.0	56.0
77	22.4	0.0	45.6

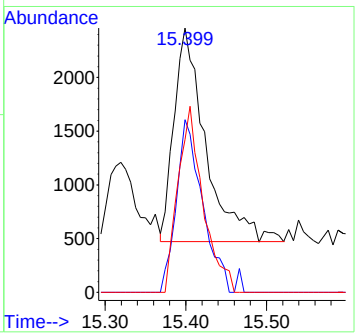


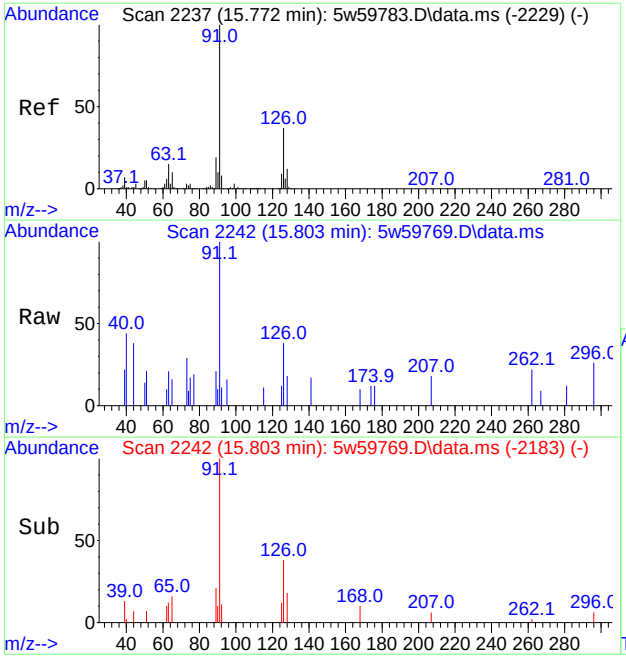


#89
BROMOBENZENE
Concen: 0.05 PPBV
RT: 15.399 min Scan# 2176
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 77 Resp: 5423

Ion	Ratio	Lower	Upper
77	100		
156	66.4	54.9	101.9
158	69.0	53.5	99.3

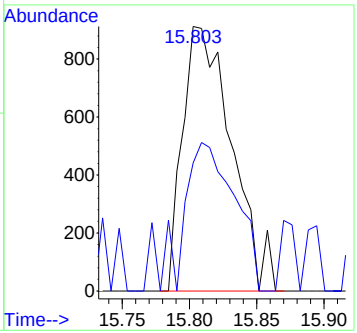


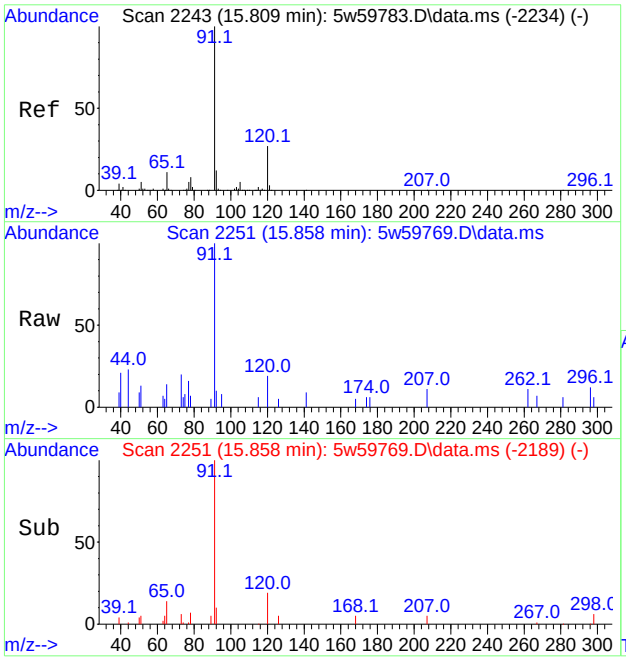


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 15.803 min Scan# 2242
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:126 Resp: 2313

Ion	Ratio	Lower	Upper
126	100		
128	53.8	2.7	62.7

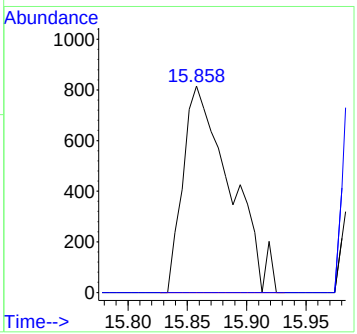


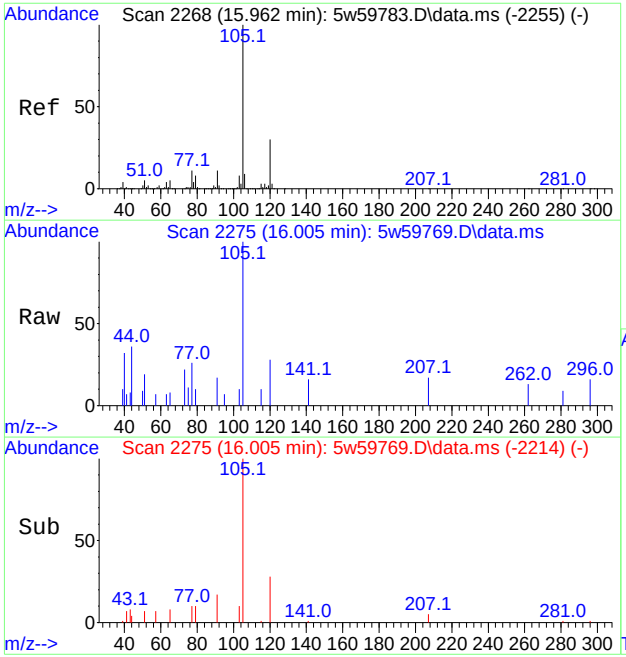


#91
n-PROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.858 min Scan# 2251
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:120 Resp: 2252

Ion	Ratio	Lower	Upper
120	100		
105	0.0	0.0	47.0

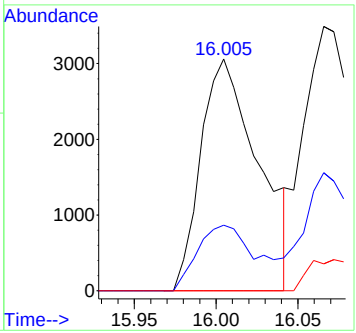


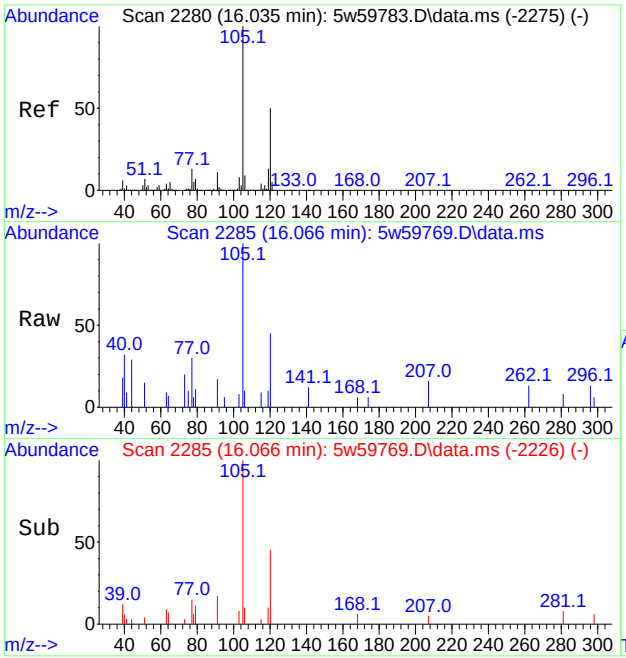


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV m
RT: 16.005 min Scan# 2275
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 7489

Ion	Ratio	Lower	Upper
105	100		
120	55.0	0.0	59.9
119	12.2	0.0	32.3

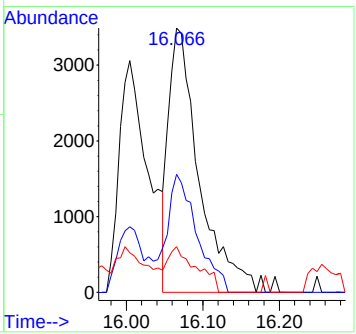


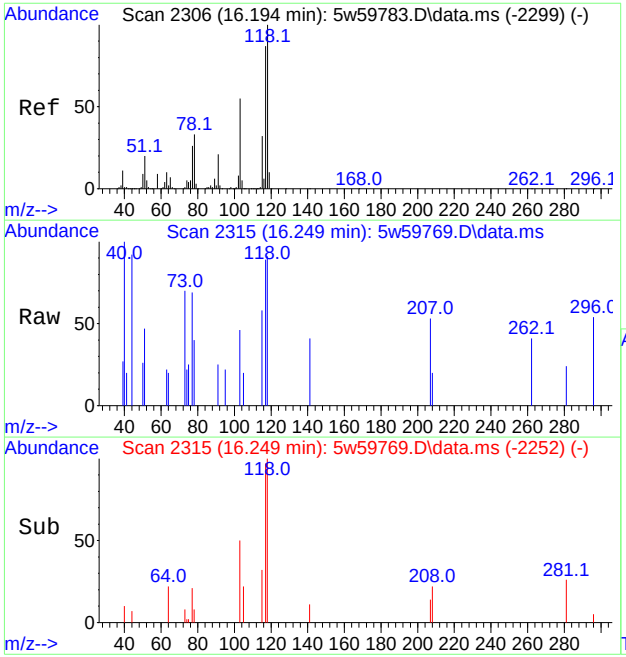


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.05 PPBV m
RT: 16.066 min Scan# 2285
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9751

Ion	Ratio	Lower	Upper
105	100		
120	23.3	19.4	79.4
91	17.0	0.0	40.8

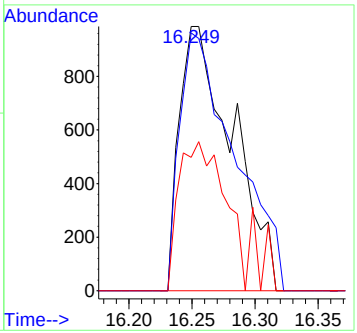


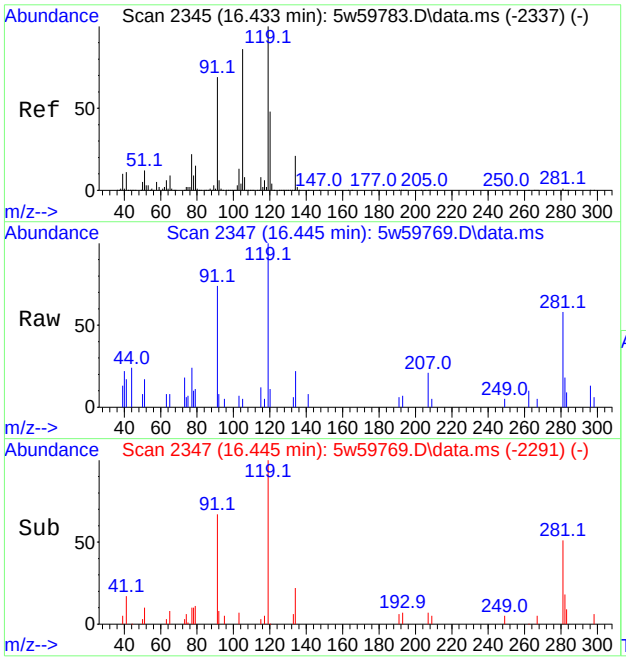


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.249 min Scan# 2315
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:118 Resp: 2895

Ion	Ratio	Lower	Upper
118	100		
117	100.8	60.9	113.1
103	48.7	38.6	71.8

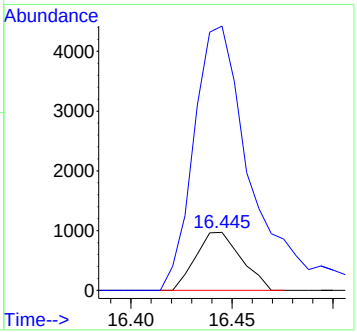


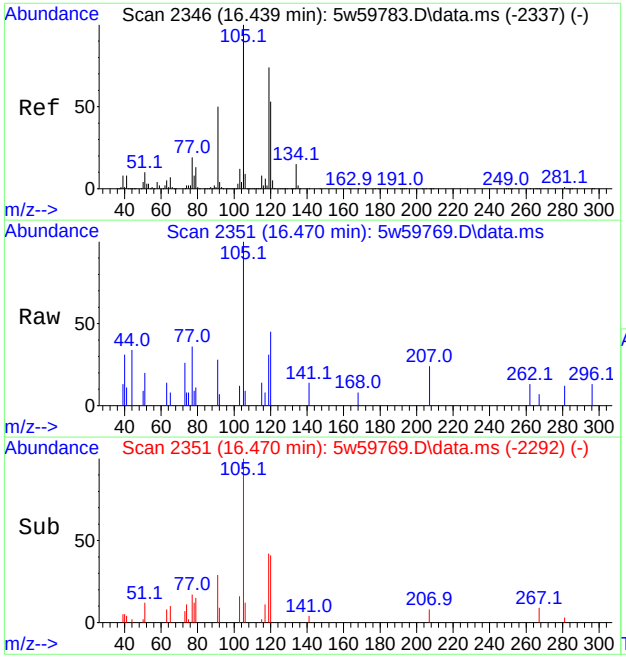


#95
tert-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1525

Ion	Ratio	Lower	Upper
134	100		
119	590.2	459.3	519.3#

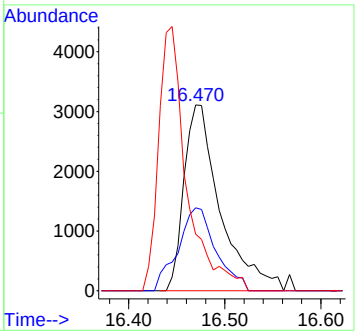


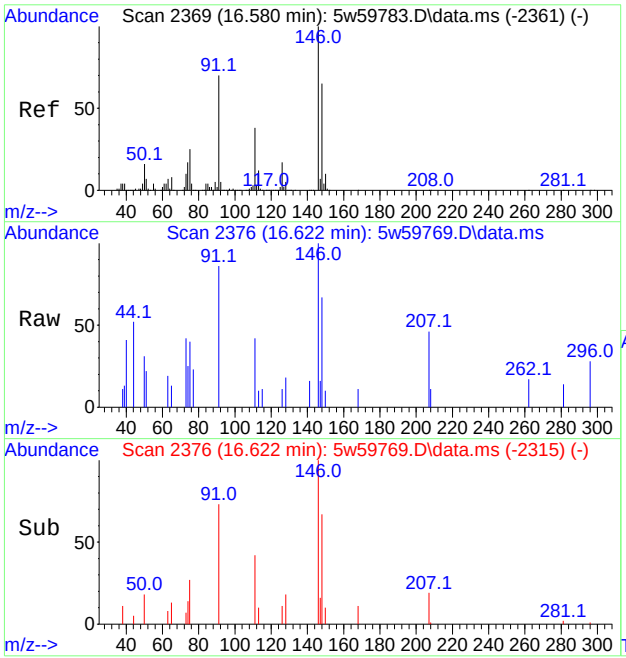


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.05 PPBV
RT: 16.470 min Scan# 2351
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8180

Ion	Ratio	Lower	Upper
105	100		
120	46.7	25.7	85.7
119	0.0	75.7	135.7#

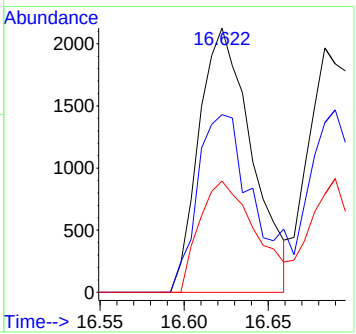


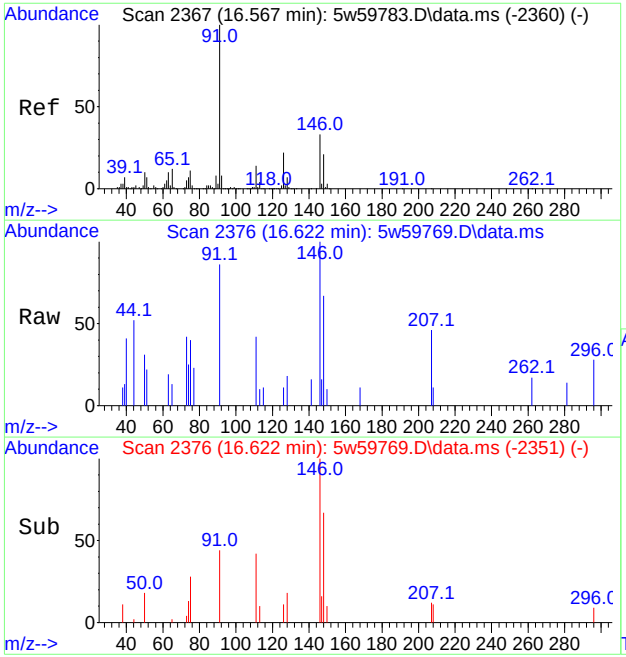


#97
m-DICHLOROBENZENE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.042 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 4669

Ion	Ratio	Lower	Upper
146	100		
148	73.3	34.8	94.8
111	44.7	8.2	68.2

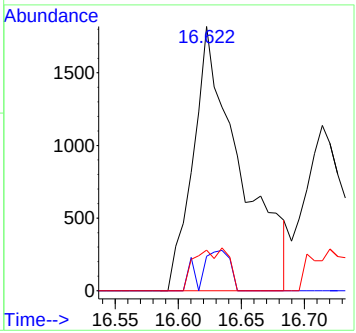


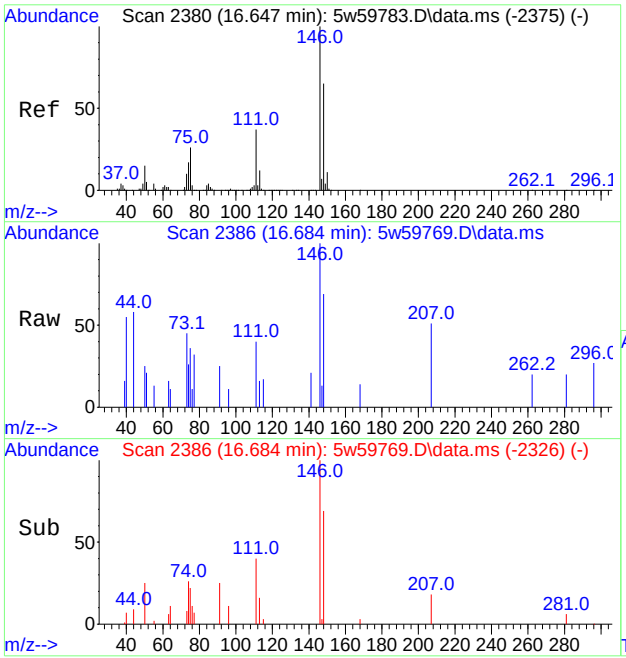


#98
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 4703

Ion	Ratio	Lower	Upper
91	100		
126	9.6	0.0	51.7
65	11.6	0.0	42.2

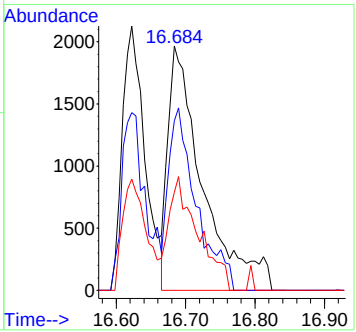


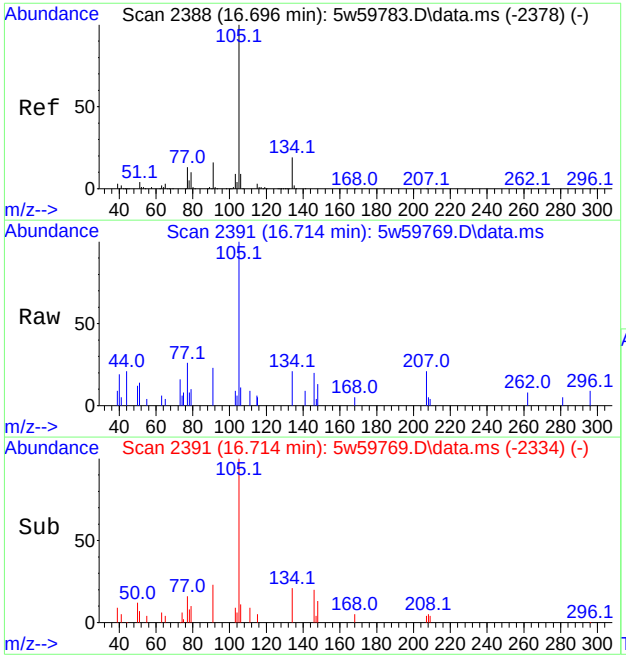


#99
p-DICHLOROBENZENE
Concen: 0.05 PPBV m
RT: 16.684 min Scan# 2386
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 6829

Ion	Ratio	Lower	Upper
146	100		
148	50.1	34.6	94.6
111	30.5	6.7	66.7

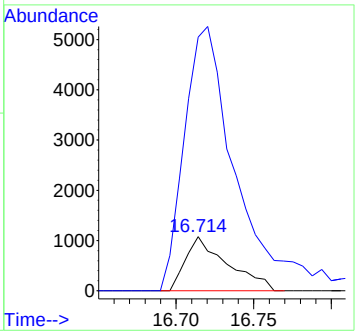


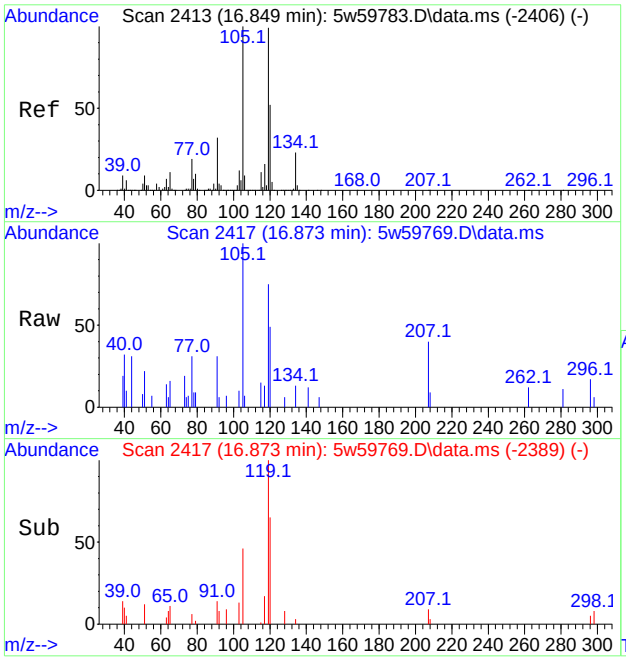


#100
sec-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.714 min Scan# 2391
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2023

Ion	Ratio	Lower	Upper
134	100		
105	613.6	502.5	562.5#

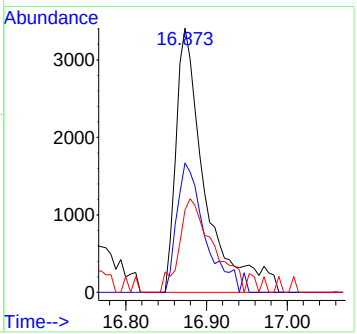


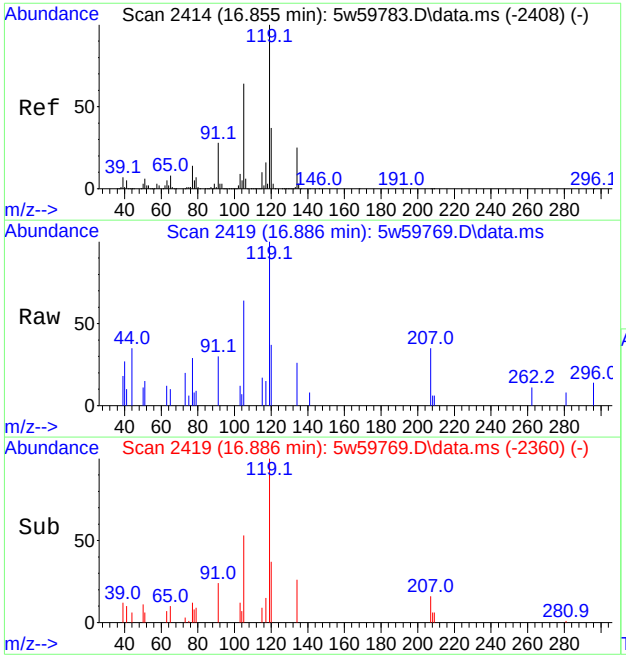


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.873 min Scan# 2417
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8480

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	41.5	7.4	67.4

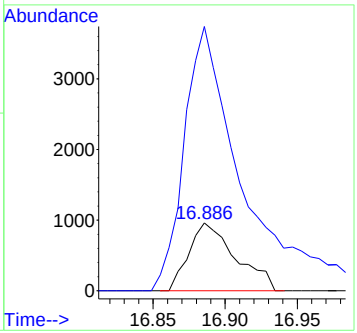


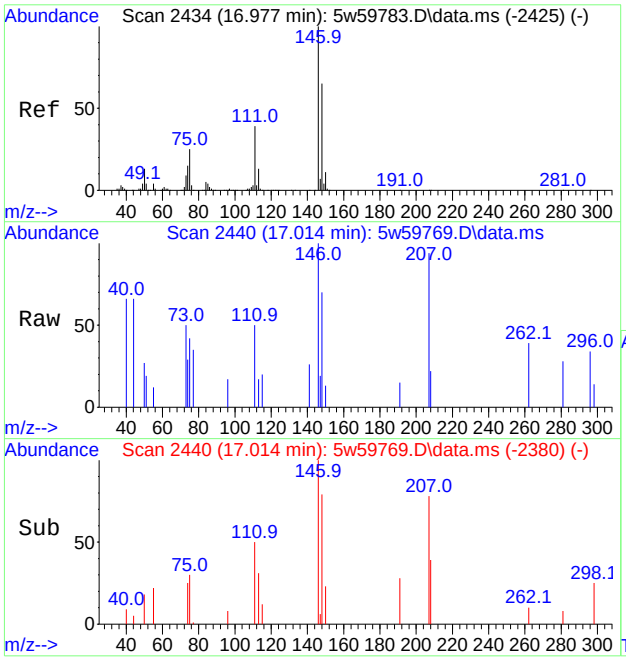


#102
p-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 16.886 min Scan# 2419
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2164

Ion	Ratio	Lower	Upper
134	100		
119	504.7	377.7	437.7#

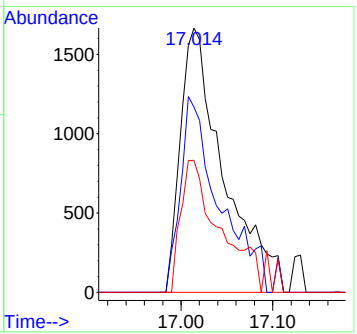


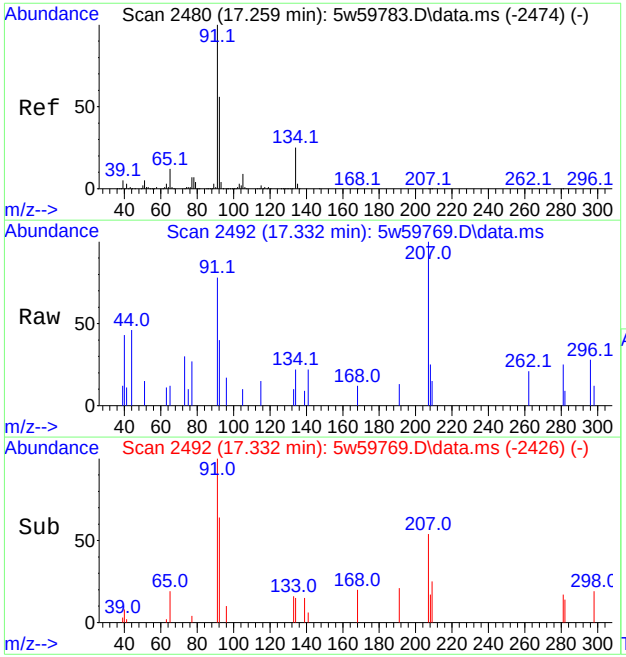


#103
o-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 17.014 min Scan# 2440
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 5480

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.3	94.3
111	45.3	9.2	69.2

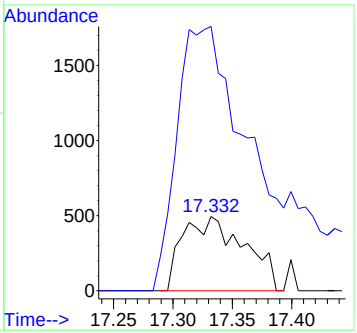


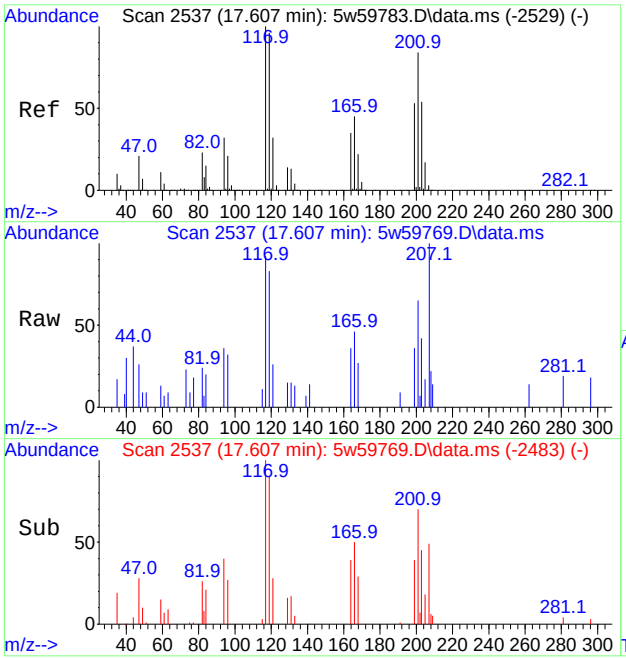


#104
n-BUTYLBENZENE
Concen: 0.03 PPBV
RT: 17.332 min Scan# 2492
Delta R.T. 0.073 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1780

Ion	Ratio	Lower	Upper
134	100		
91	517.0	363.1	423.1#

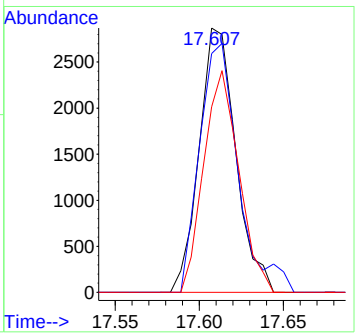


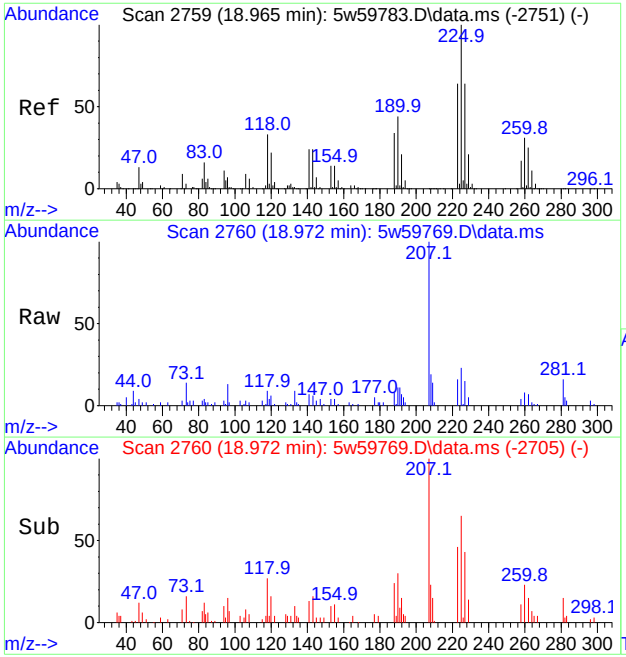


#105
HEXACHLOROETHANE
Concen: 0.05 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4357

Ion	Ratio	Lower	Upper
117	100		
119	99.3	67.2	124.8
201	80.2	61.1	113.5

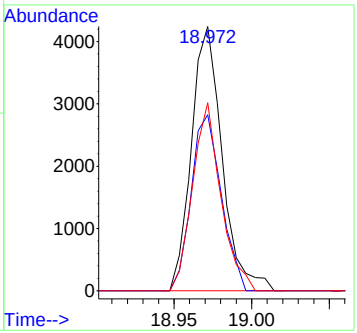


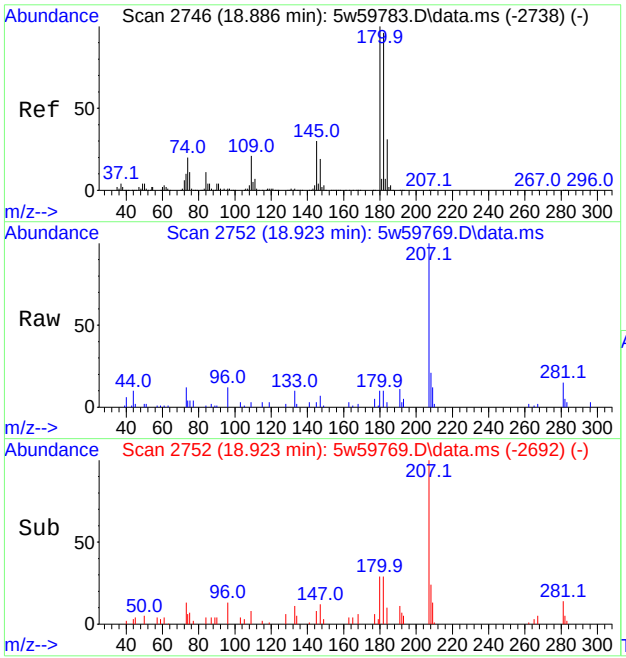


#106
HEXACHLOROBUTADIENE
Concen: 0.05 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:225 Resp: 5840

Ion	Ratio	Lower	Upper
225	100		
227	65.1	34.2	94.2
223	65.4	33.3	93.3

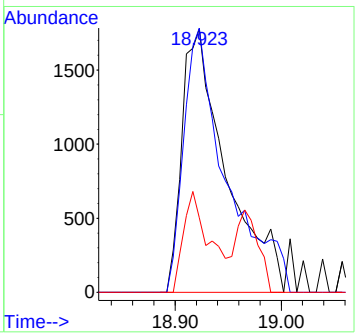


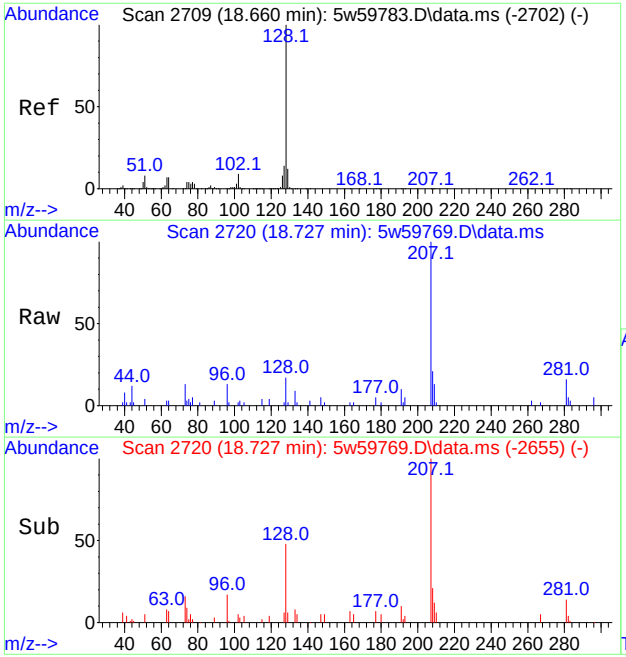


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.04 PPBV
RT: 18.923 min Scan# 2752
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:180 Resp: 5141

Ion	Ratio	Lower	Upper
180	100		
182	97.1	65.4	125.4
145	22.6	0.0	59.4

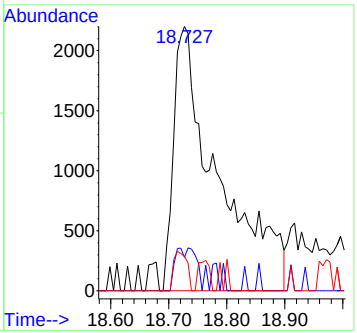


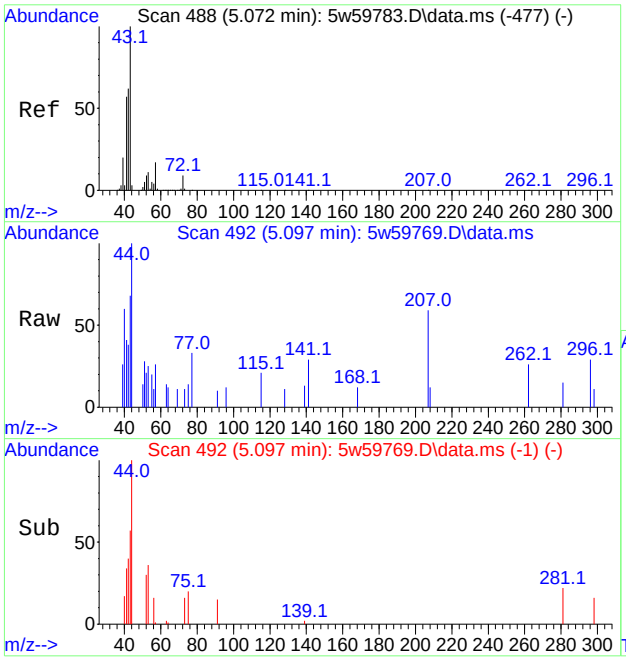


#108
NAPHTHALENE
Concen: 0.04 PPBV m
RT: 18.727 min Scan# 2720
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:128 Resp: 11614

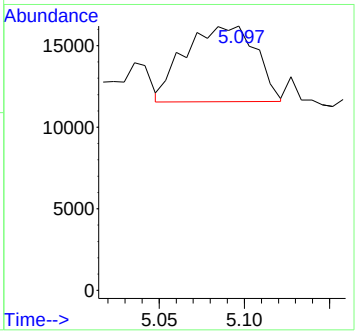
Ion	Ratio	Lower	Upper
128	100		
127	7.7	0.0	43.3
129	4.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.05 PPBV m
RT: 5.097 min Scan# 492
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:TIC Resp: 13430



Manual Integration Approval Summary

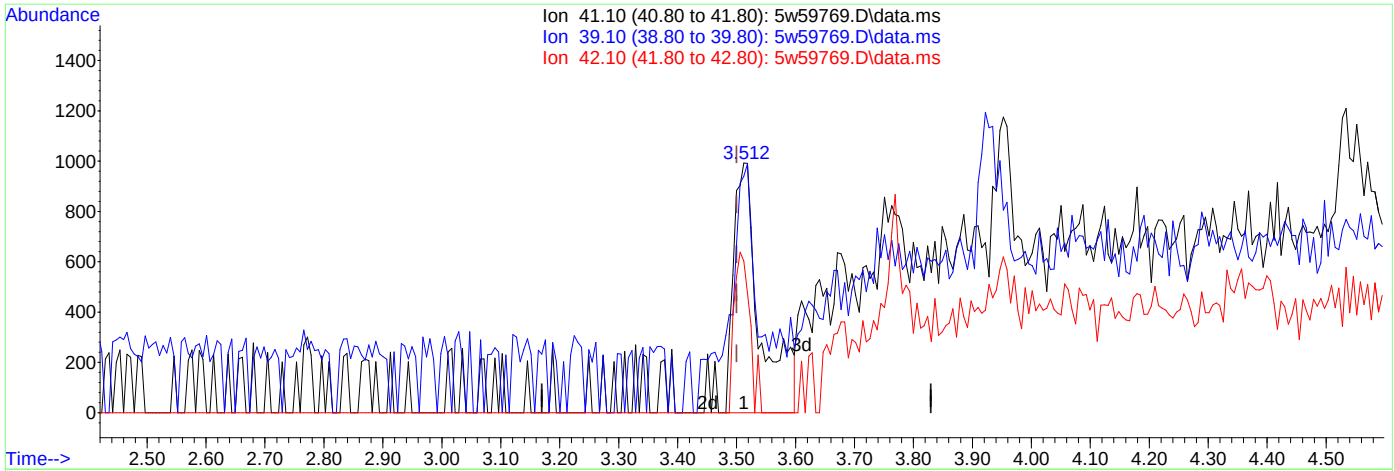
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59769.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/06/25 22:35 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

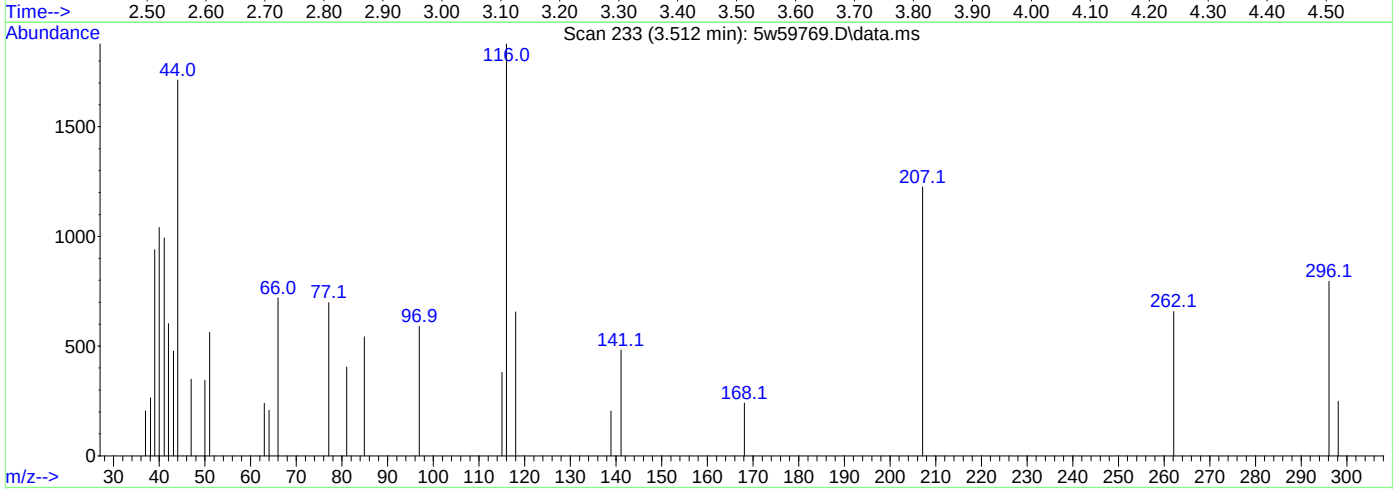
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propylene	115-07-1		3.51	Poor instrument integration
Freon 142B	75-68-3		3.65	Poor instrument integration
n-Butane	106-97-8		3.95	Poor instrument integration
Chloroethane	75-00-3		4.23	Poor instrument integration
Acrolein	107-02-8		4.62	Poor instrument integration
Isopropyl Alcohol	67-63-0		4.94	Poor instrument integration
TVHC As Equiv Pentane			5.10	Missed peak
trans-1,2-Dichloroethylene	156-60-5		6.25	Poor instrument integration
1,2-Dichloropropane	78-87-5		9.67	Poor instrument integration
Octane	111-65-9		12.77	Poor instrument integration
4-Ethyltoluene	622-96-8		16.00	Missed peak
1,3,5-Trimethylbenzene	108-67-8		16.07	Missed peak
p-Dichlorobenzene	106-46-7		16.68	Missed peak
Naphthalene	91-20-3		18.73	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.09PPBV

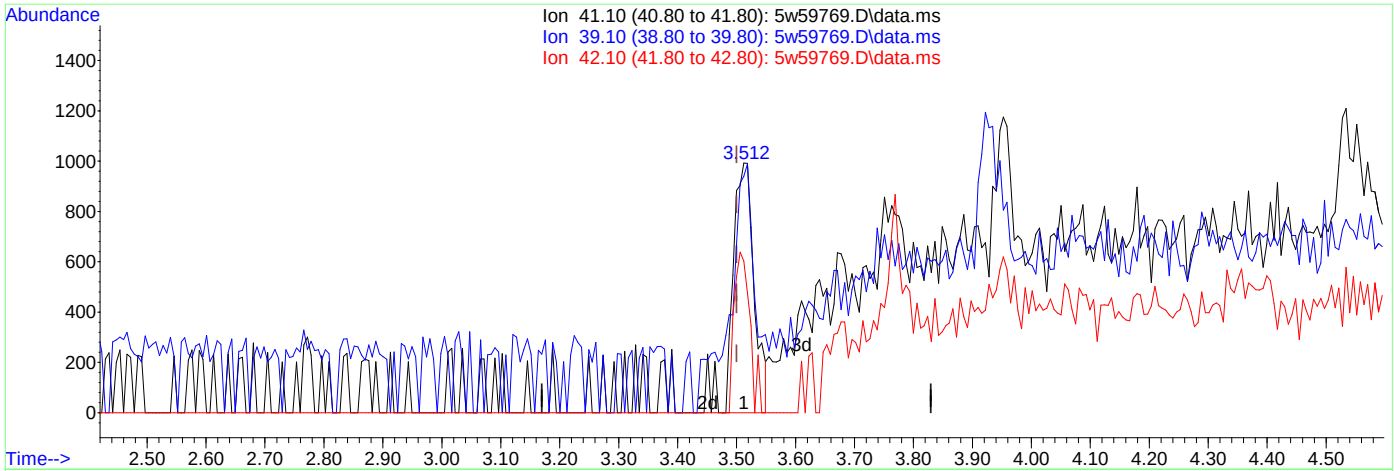
response 3070

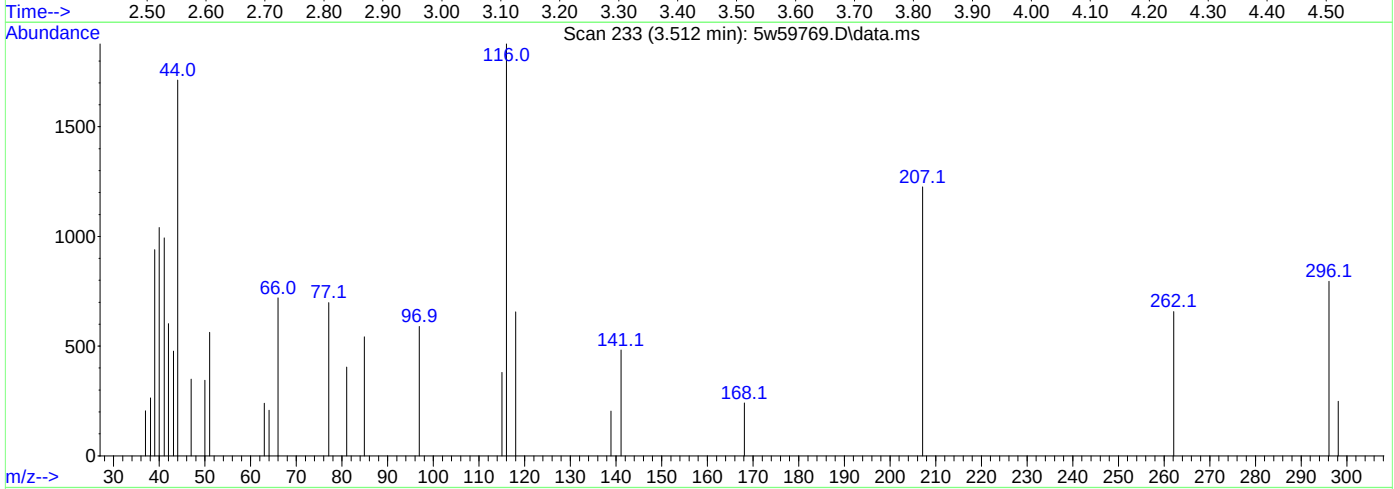
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	183.94#
42.10	66.30	38.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.07PPBV m

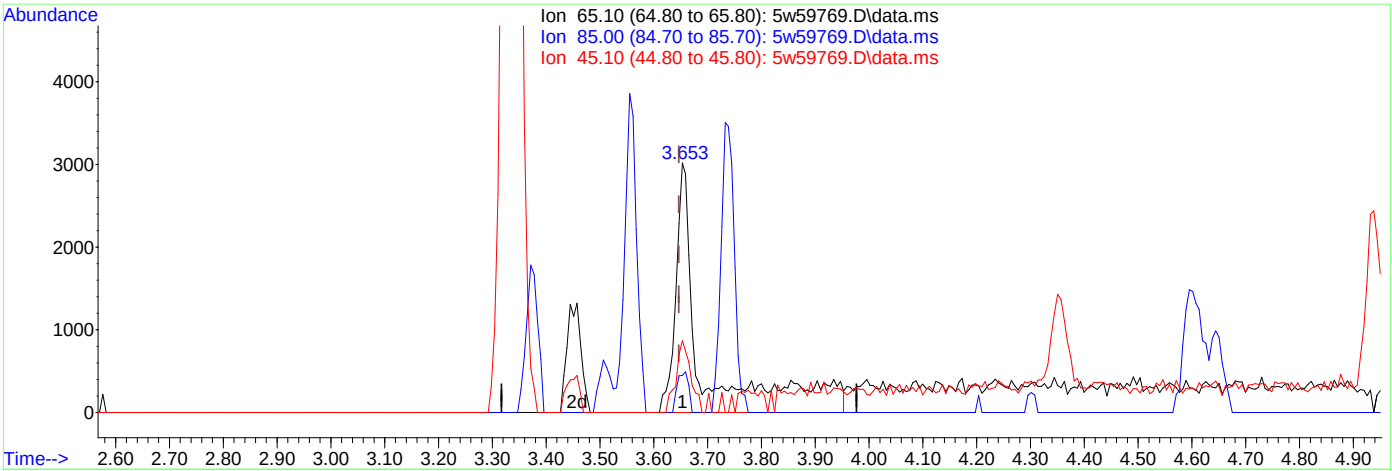
response 2388

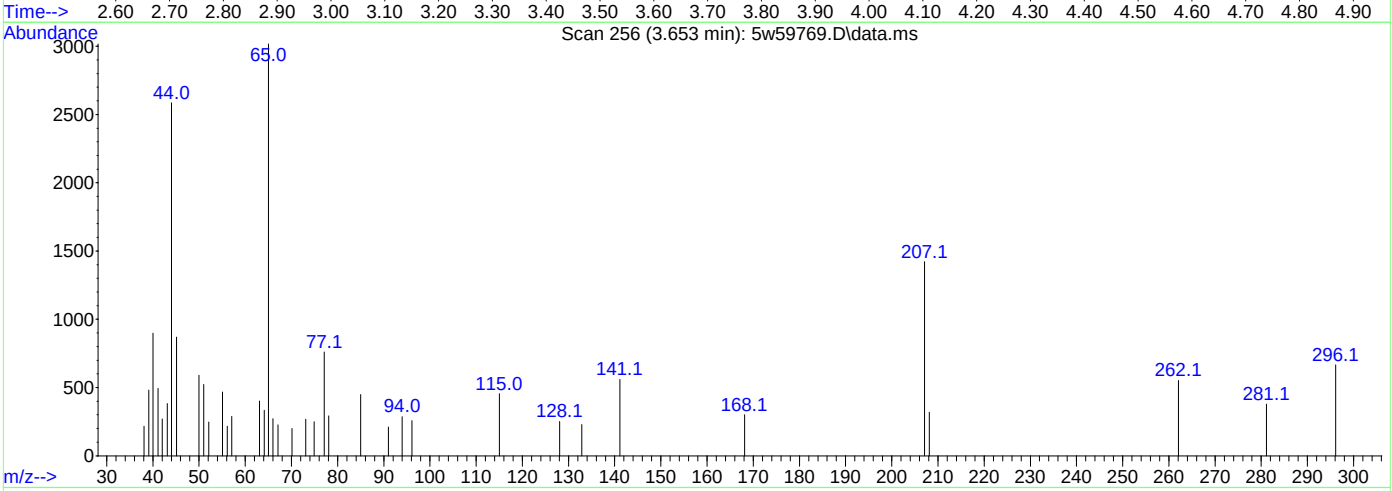
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	236.47#
42.10	66.30	49.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.10PPBV

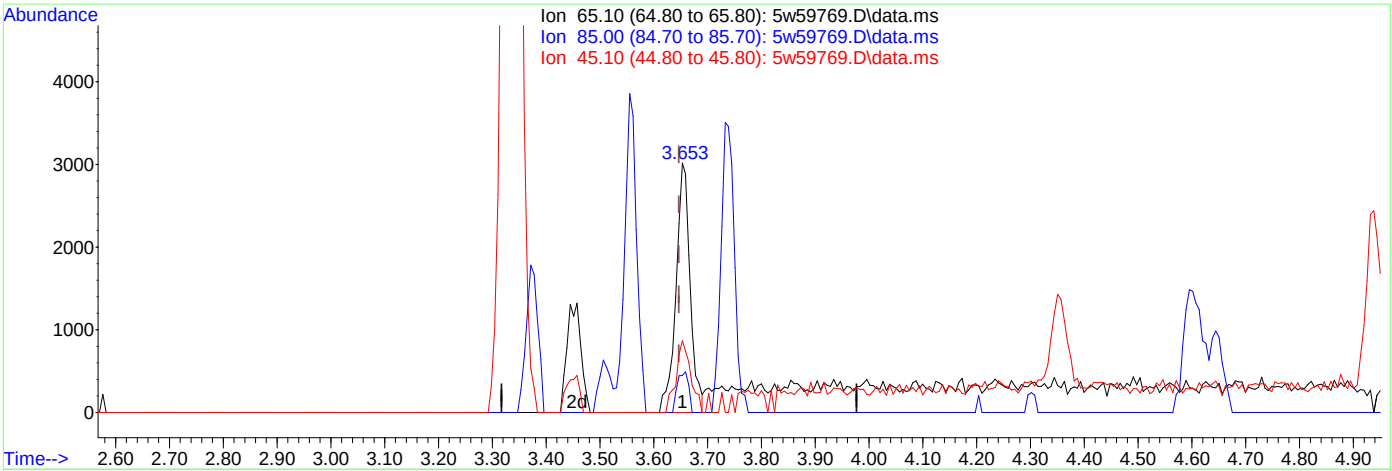
response 10348

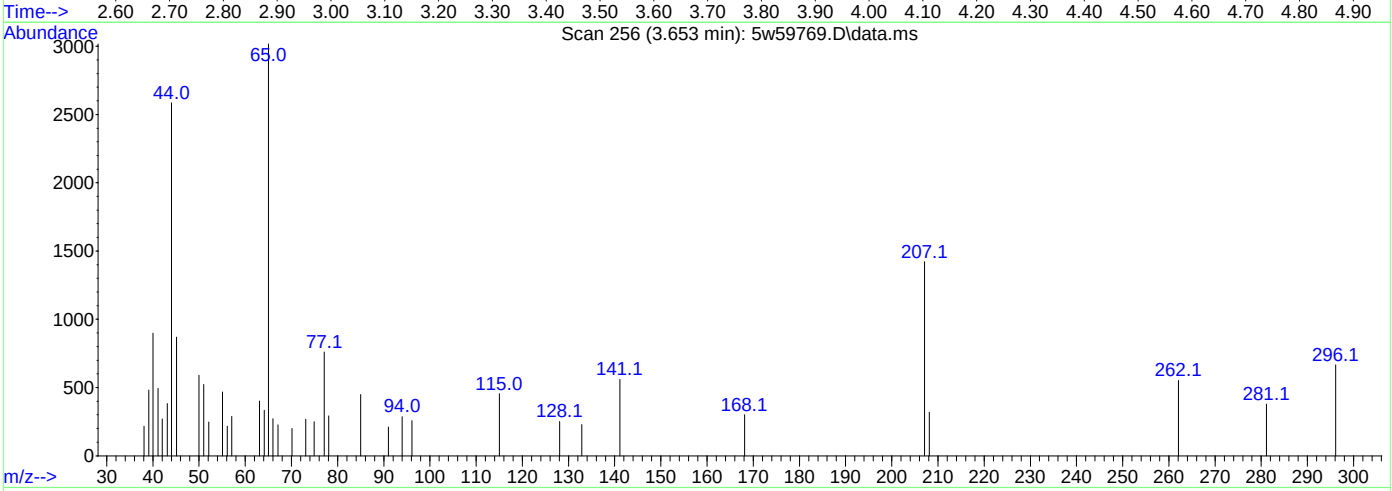
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	6.94#
45.10	20.00	16.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.05PPBV m

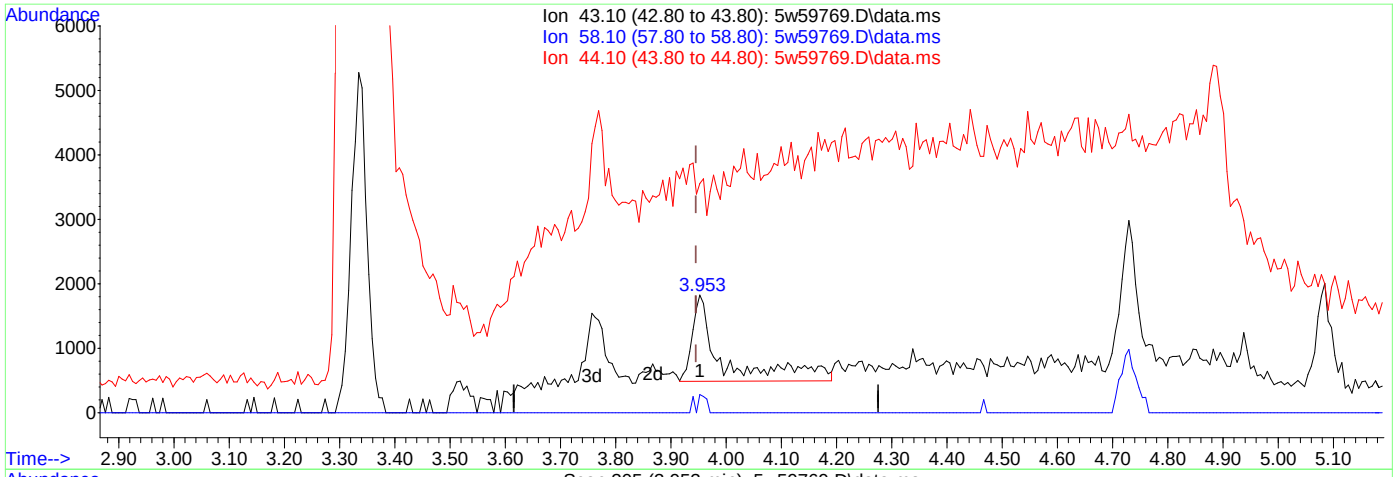
response 5550

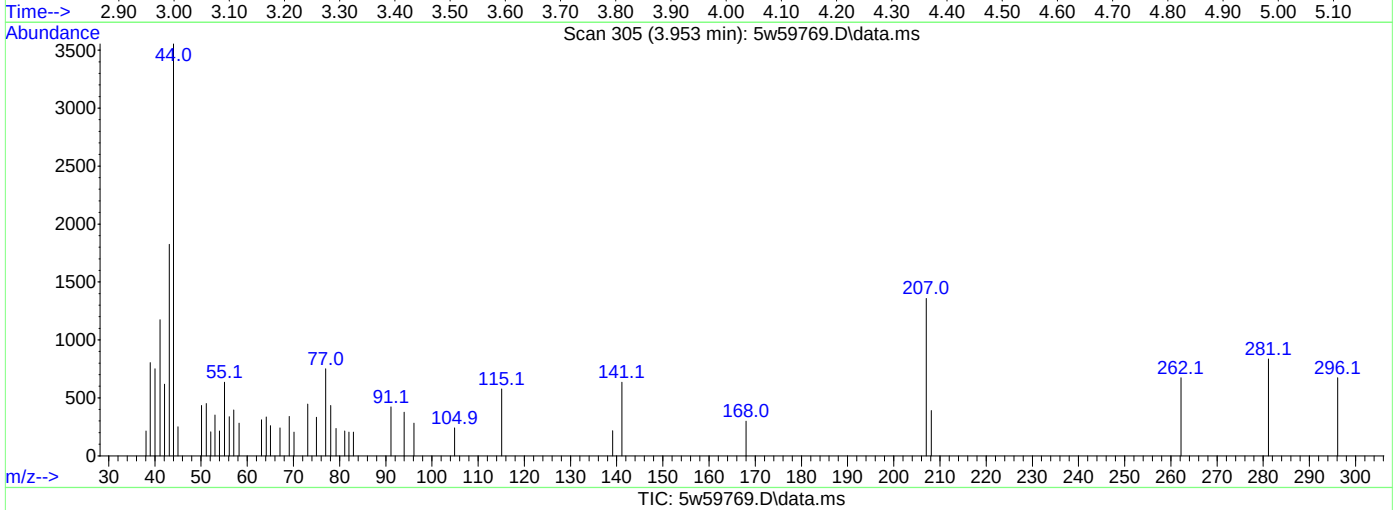
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	12.94
45.10	20.00	29.96#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.12PPBV

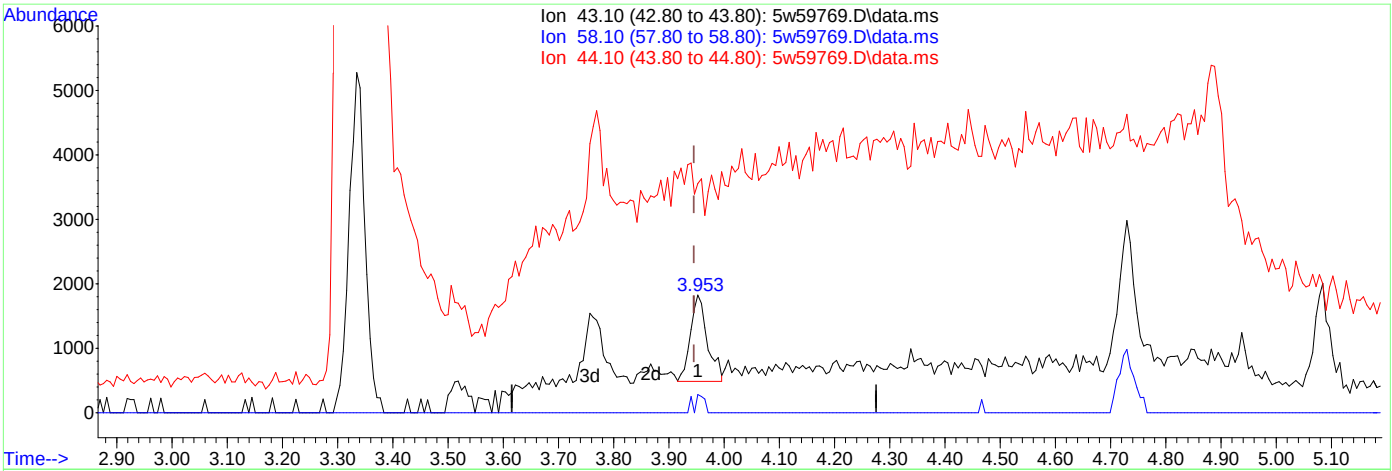
response 5032

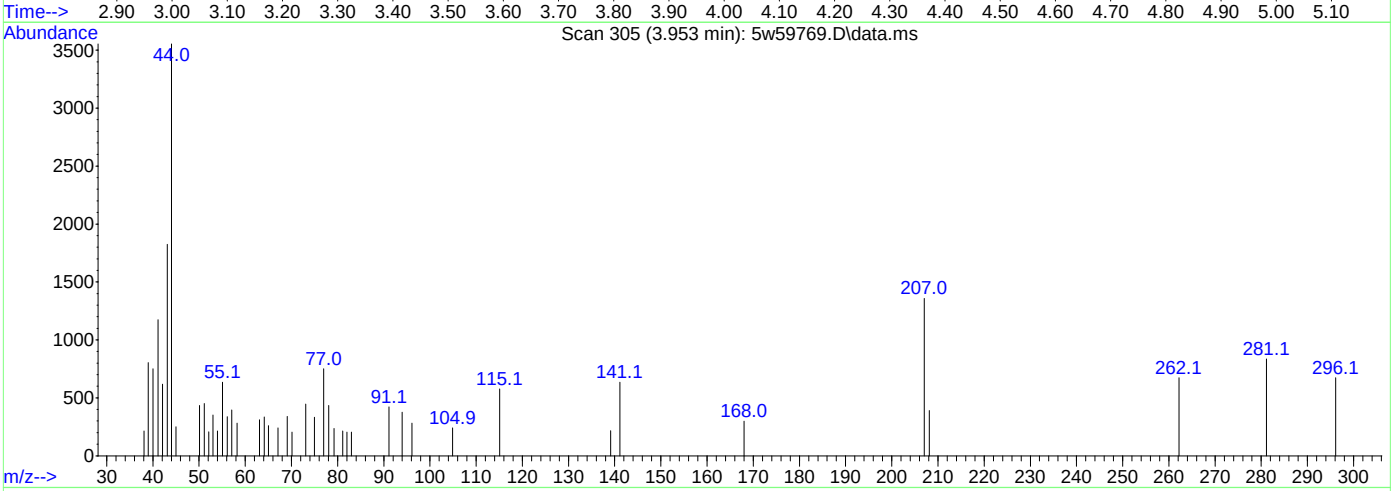
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	7.21
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.07PPBV m

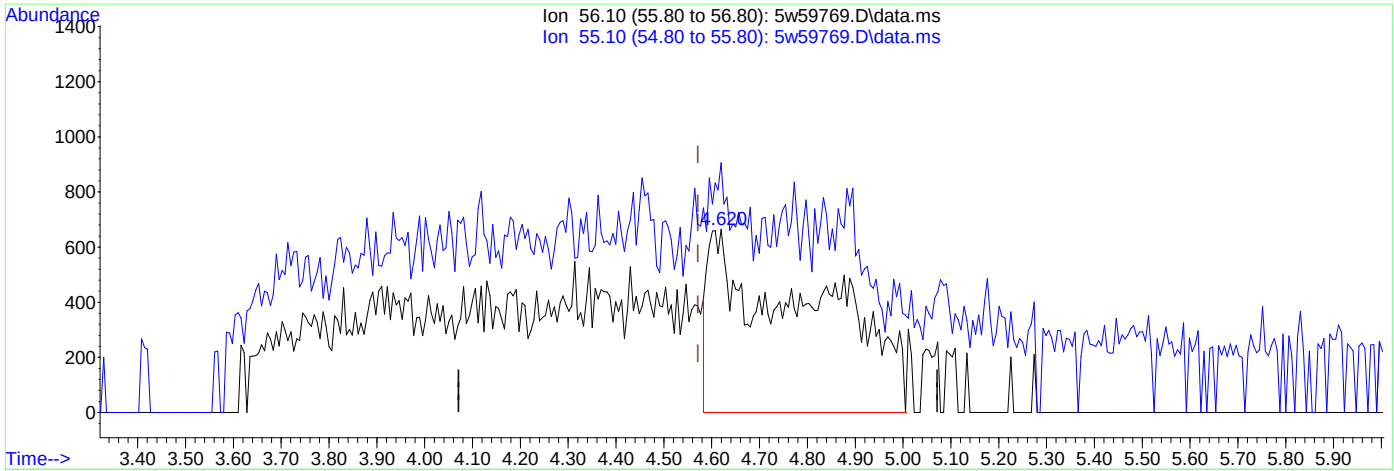
response 2825

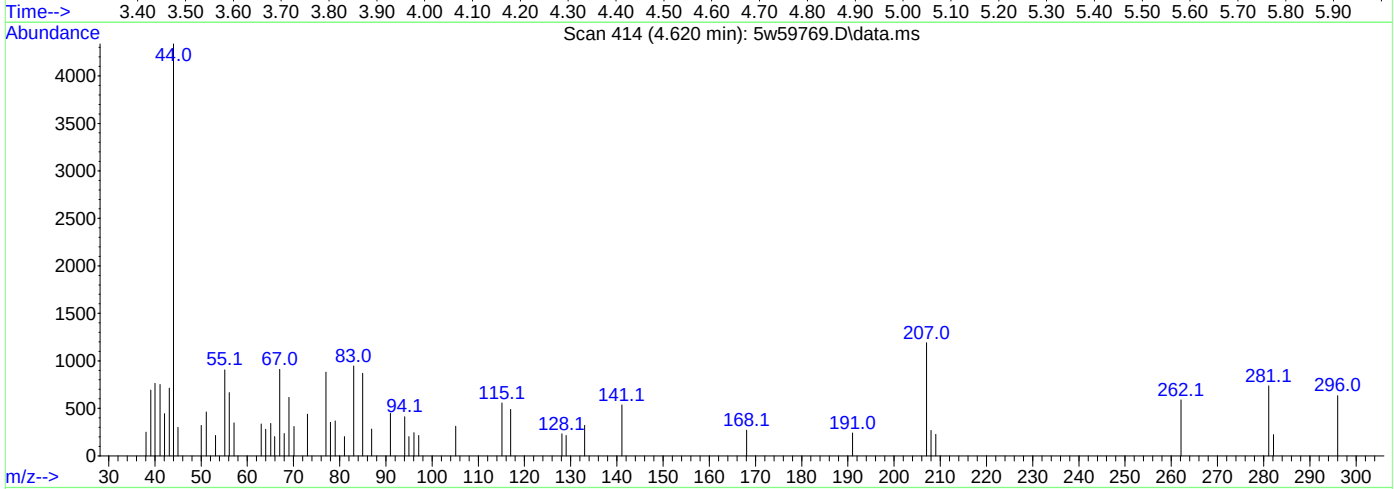
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	12.85
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.69PPBV

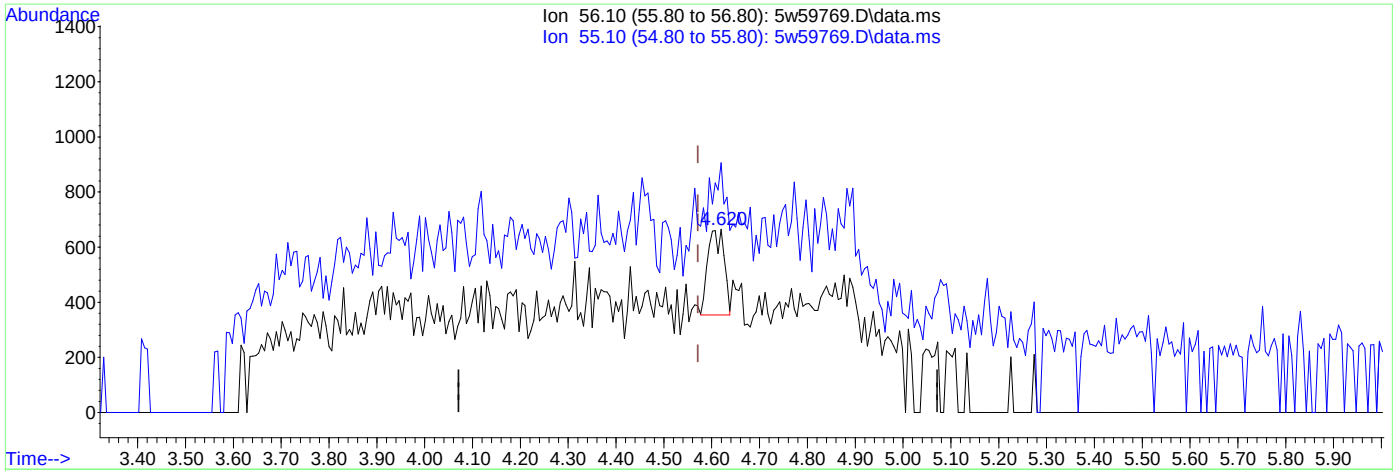
response 9827

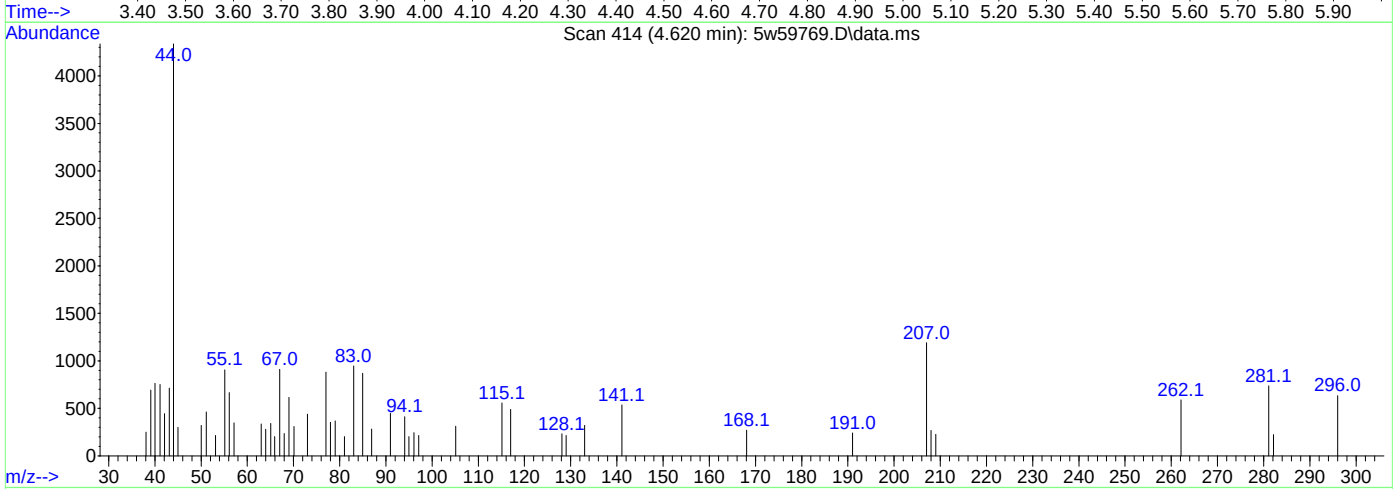
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	29.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.05PPBV m

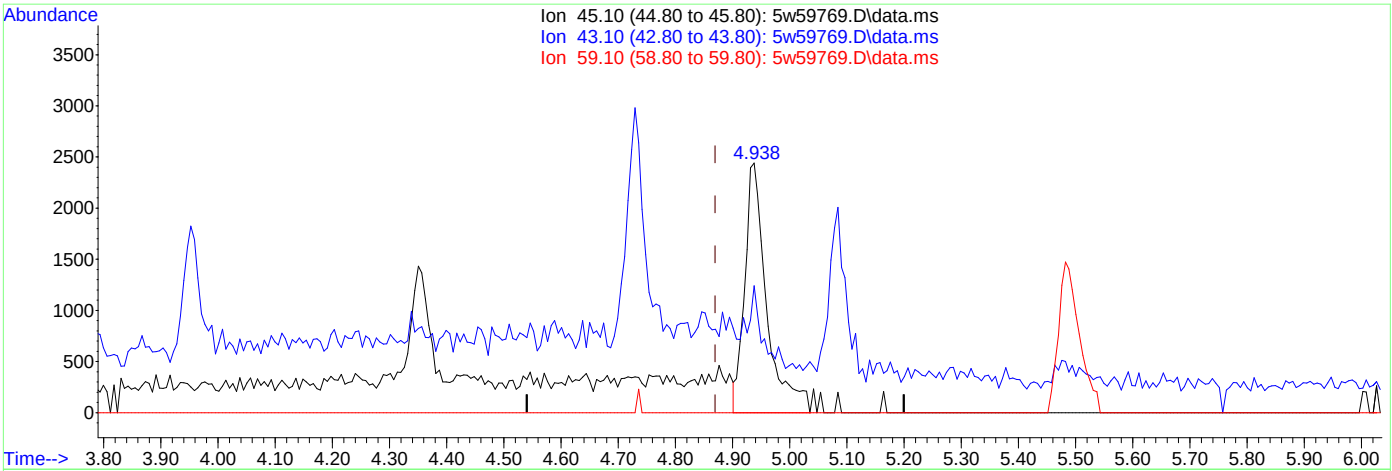
response 728

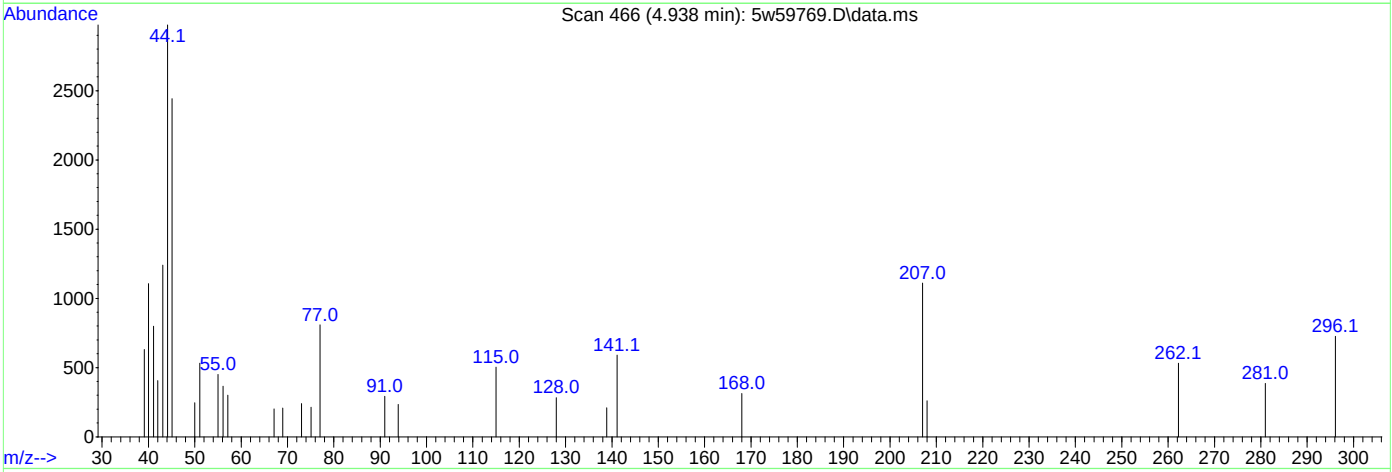
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	401.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.07PPBV

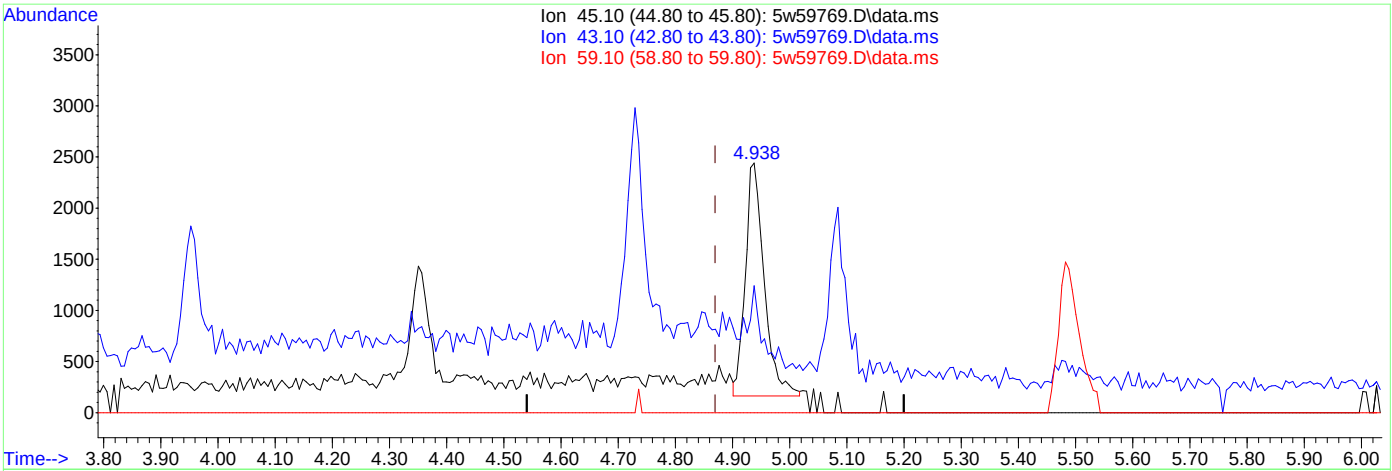
response 6511

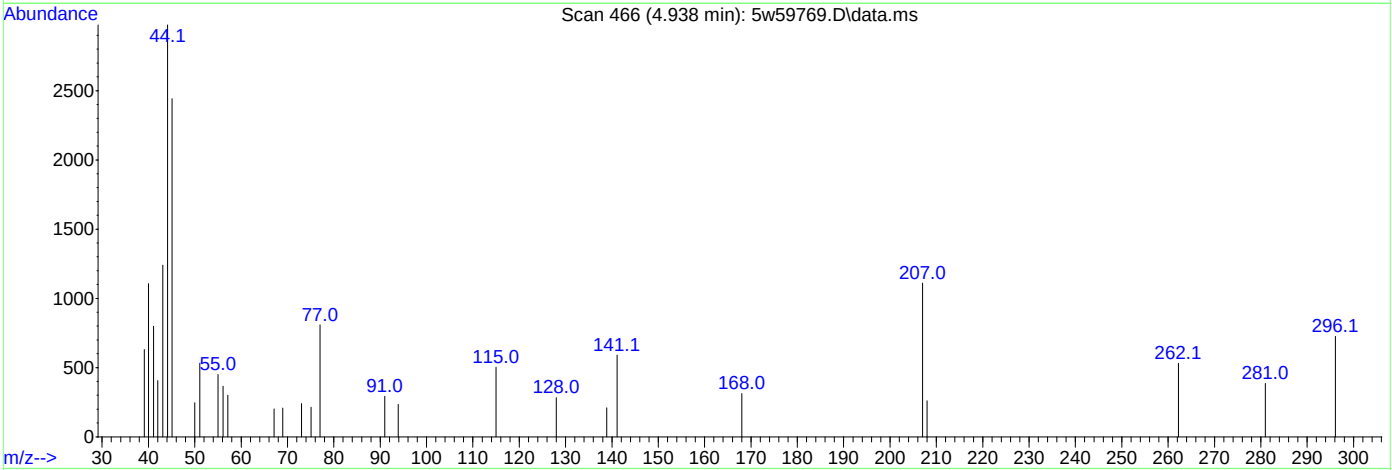
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.06PPBV m

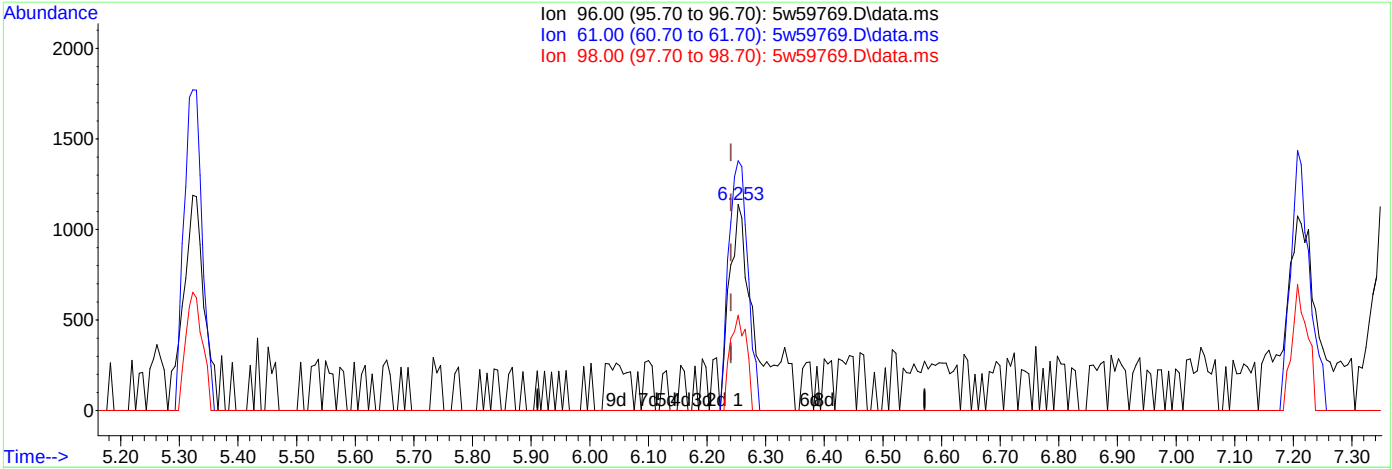
response 5219

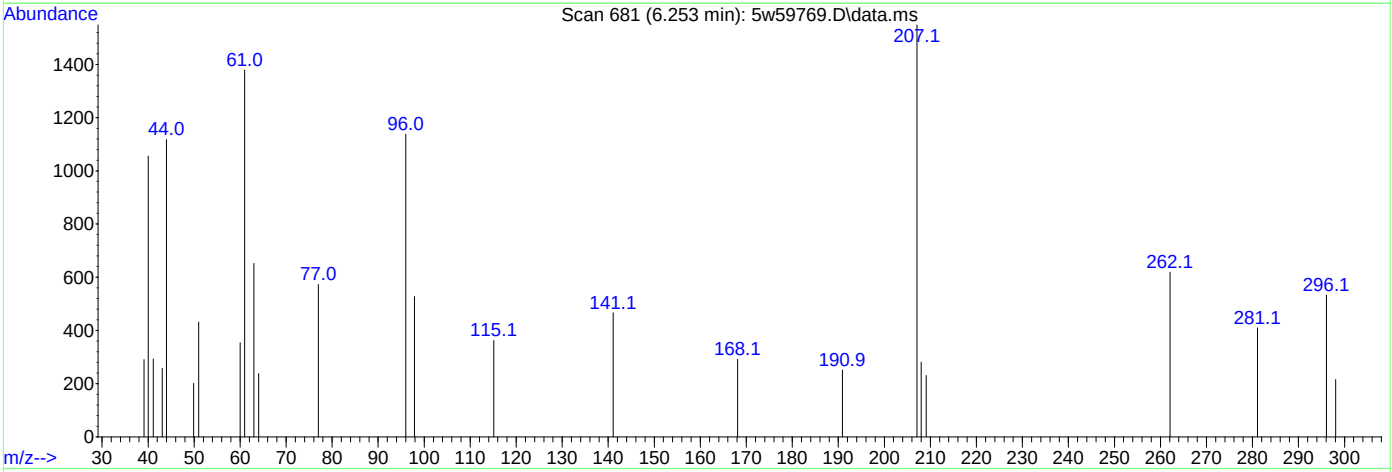
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.07PPBV

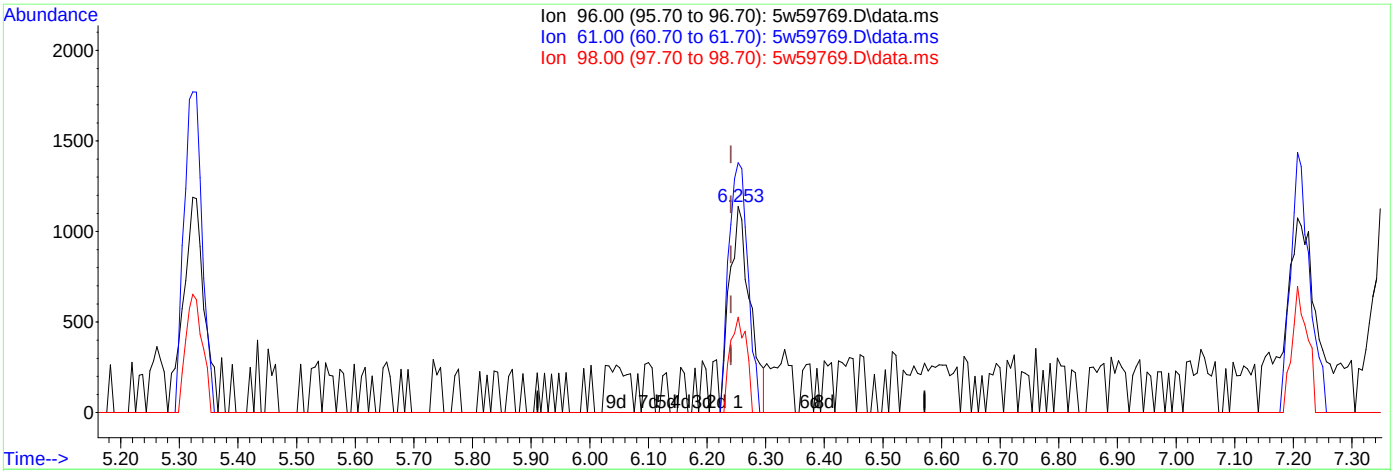
response 3570

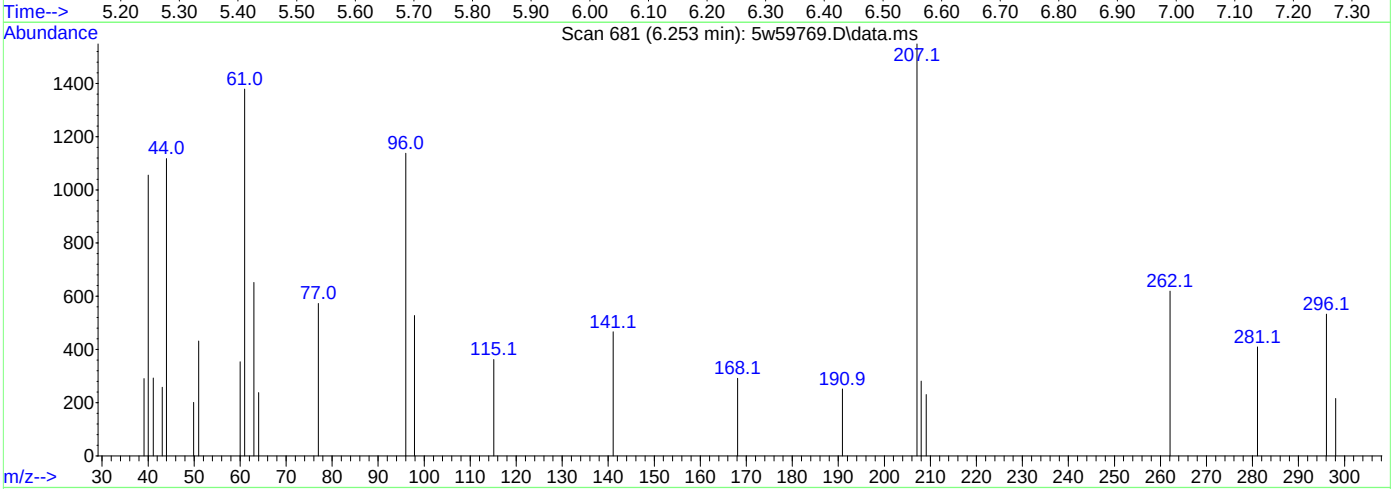
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	88.26#
98.00	64.10	28.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.05PPBV m

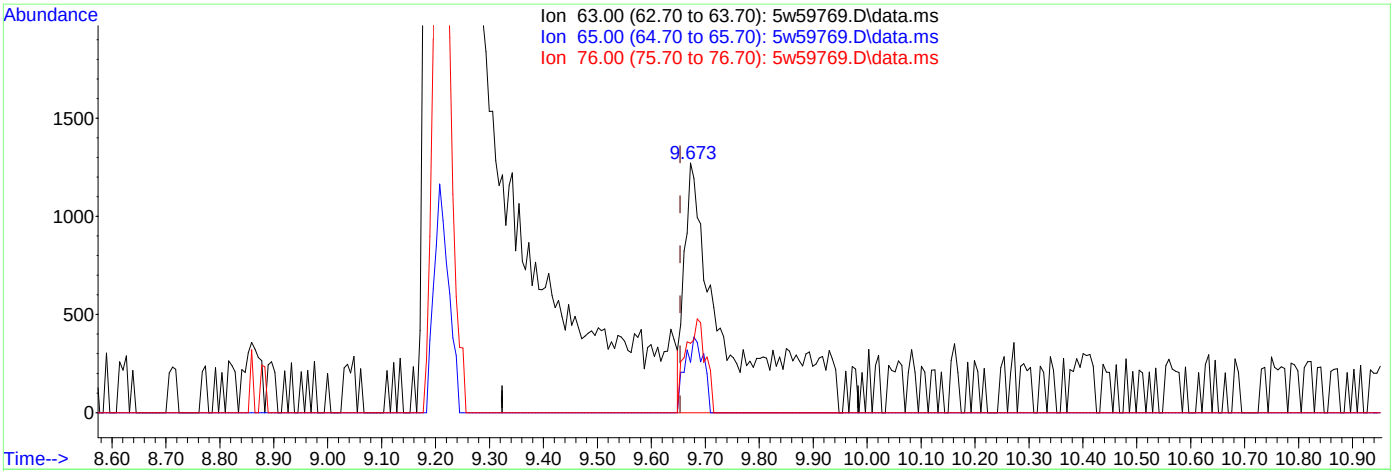
response 2781

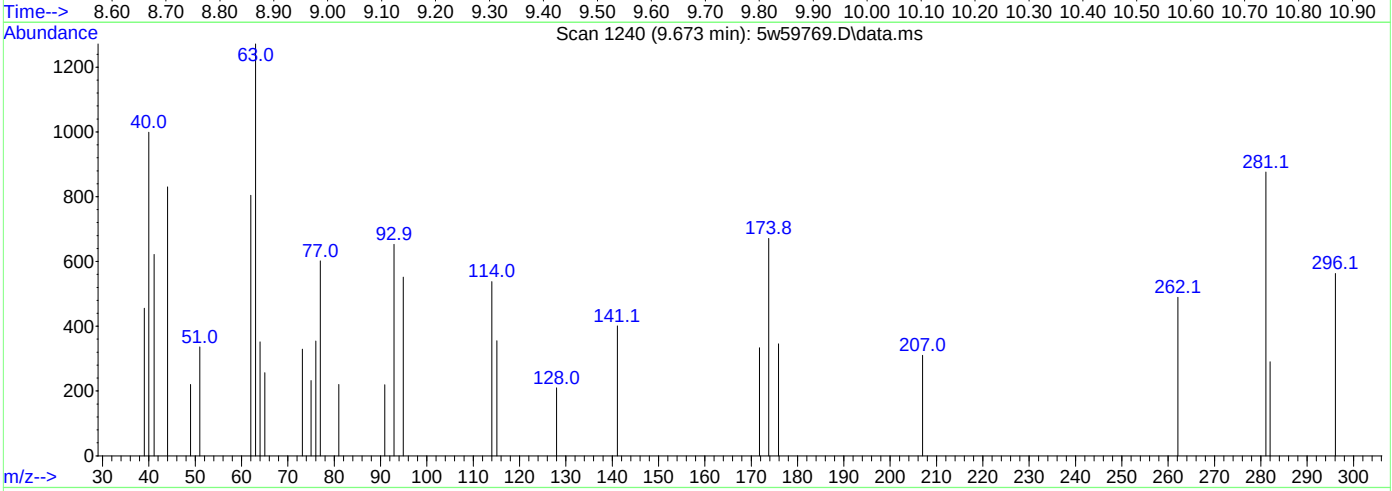
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	113.30#
98.00	64.10	36.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.11PPBV

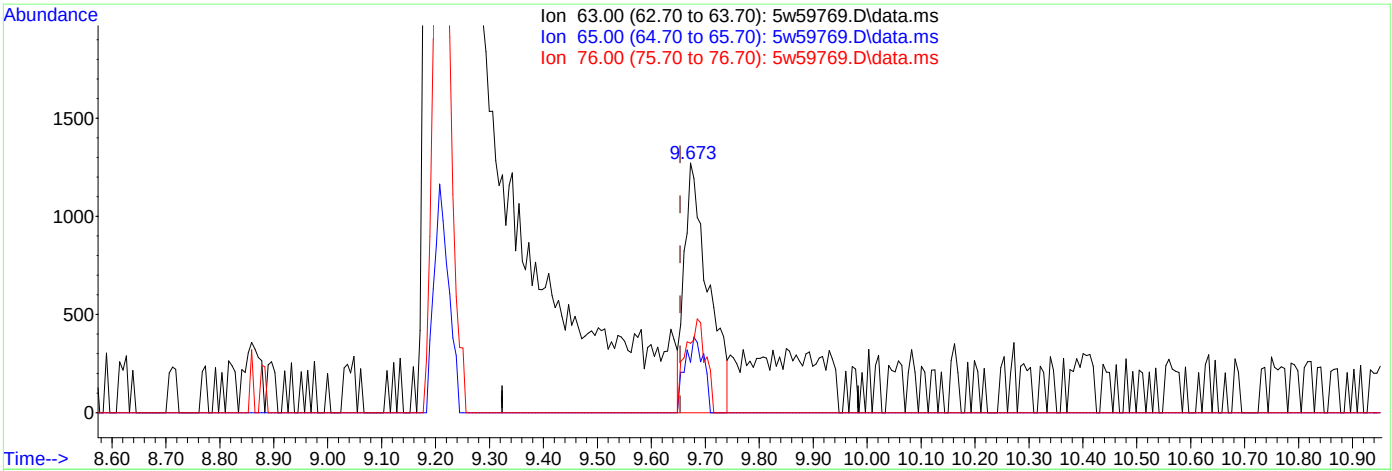
response 7133

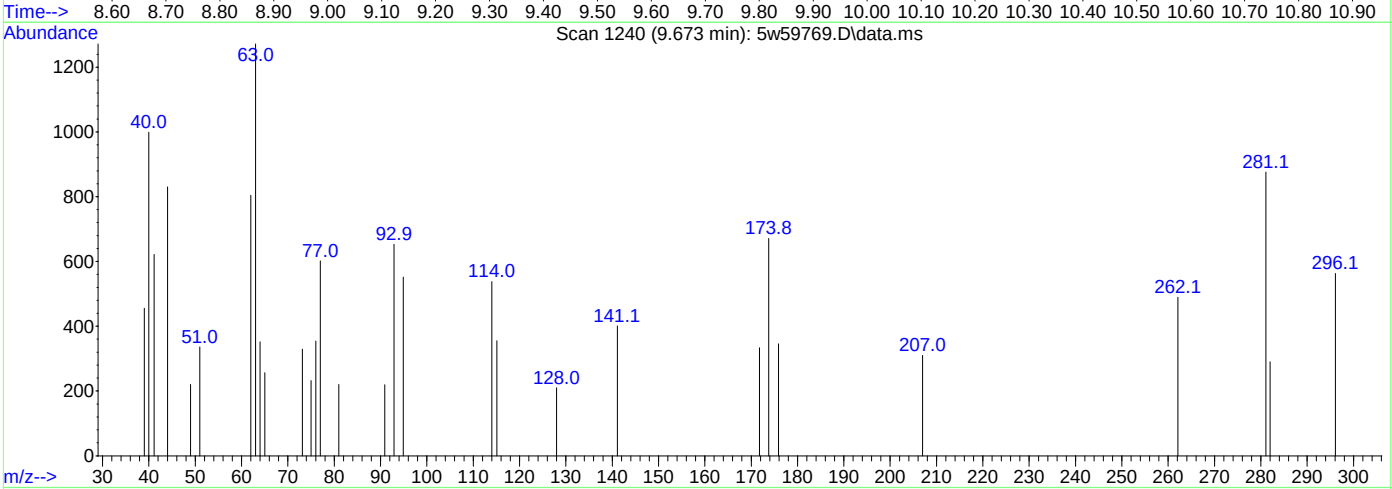
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	12.81
76.00	41.50	17.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.06PPBV m

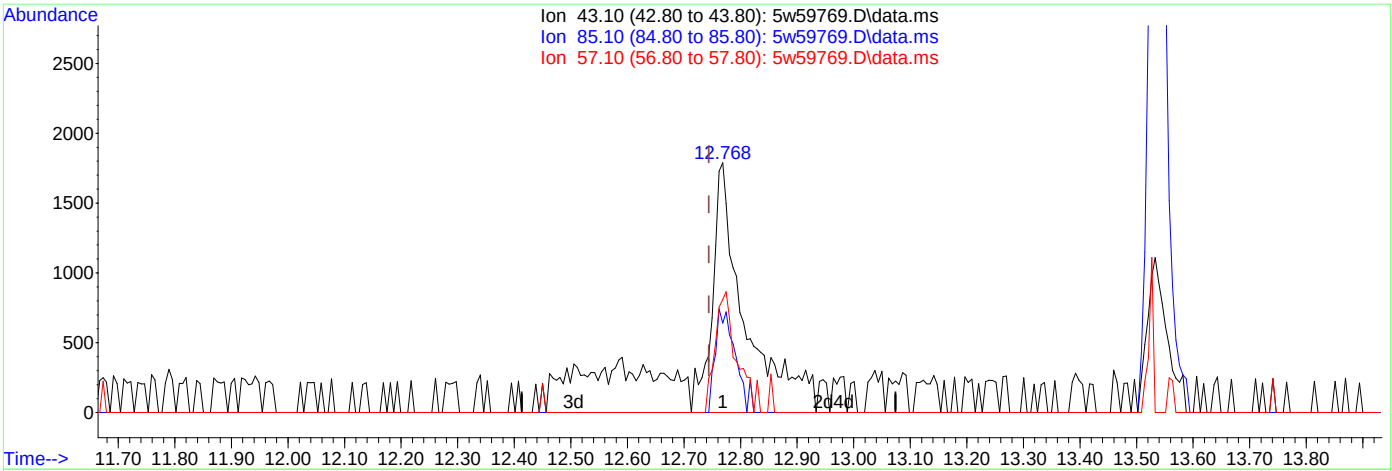
response 3887

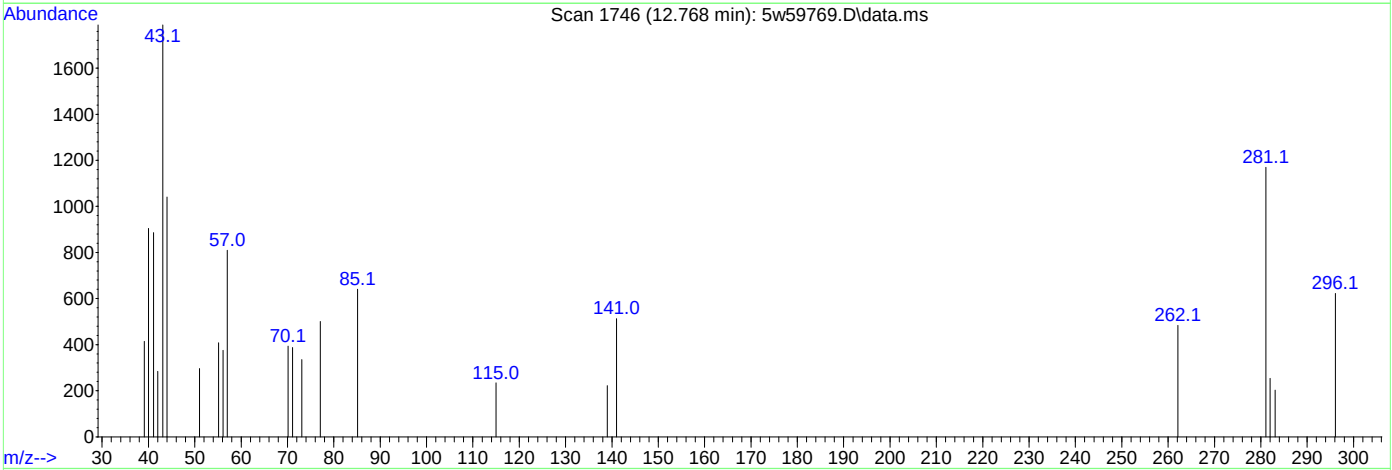
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	23.51
76.00	41.50	31.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.08PPBV

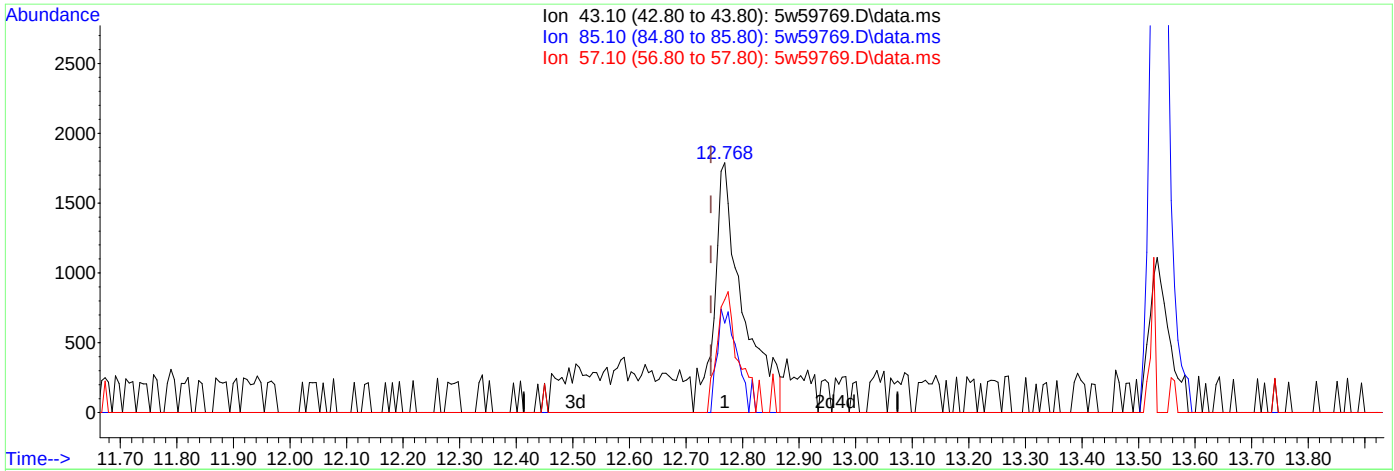
response 7210

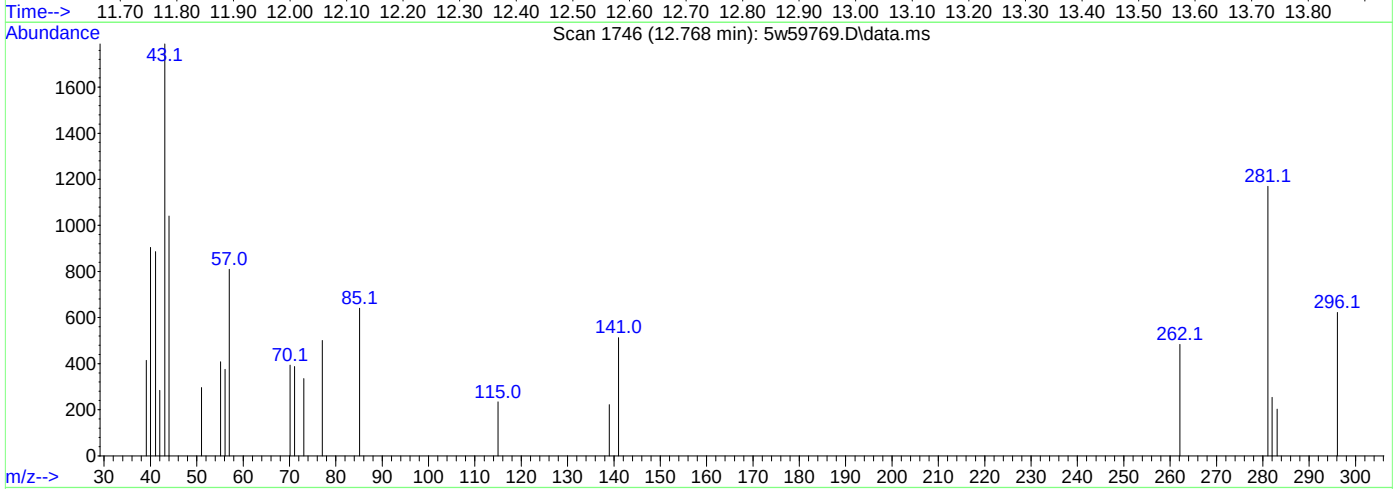
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	25.34
57.10	43.70	32.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.07PPBV m

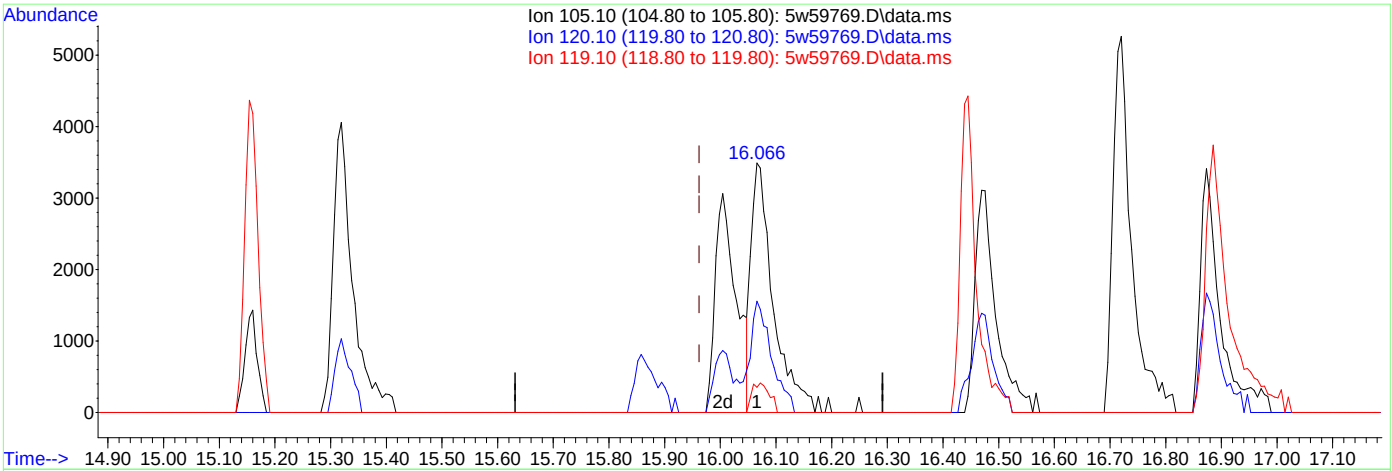
response 6243

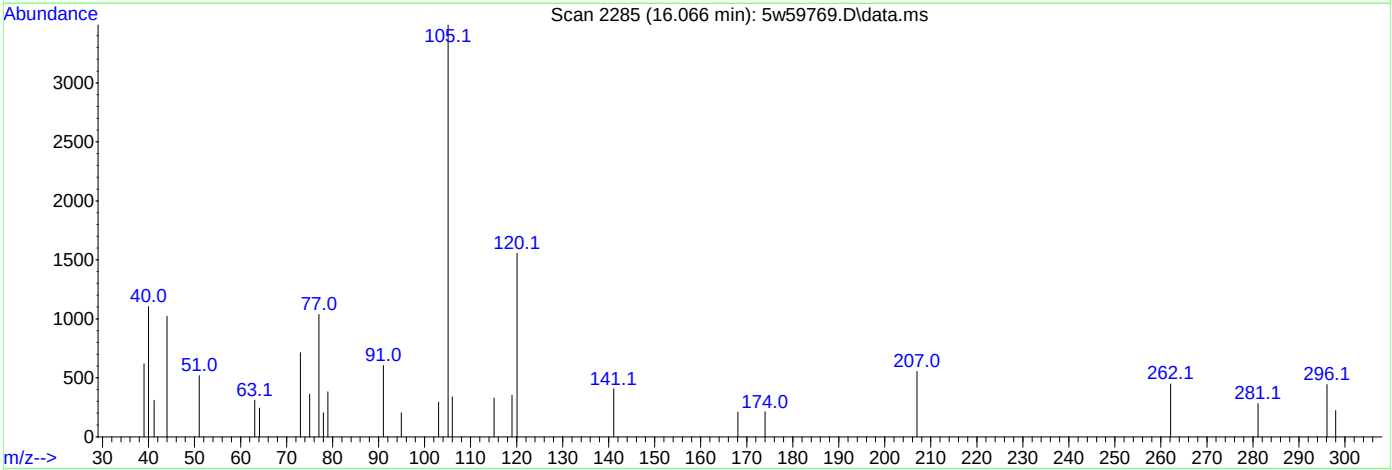
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	29.26
57.10	43.70	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.066min (+0.104) 0.05PPBV

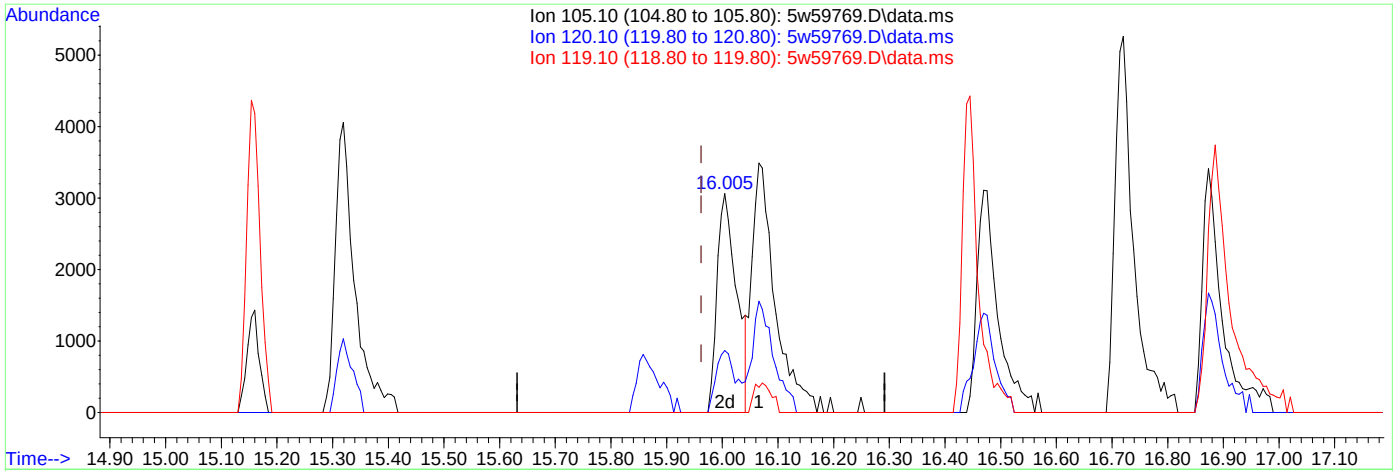
response 9673

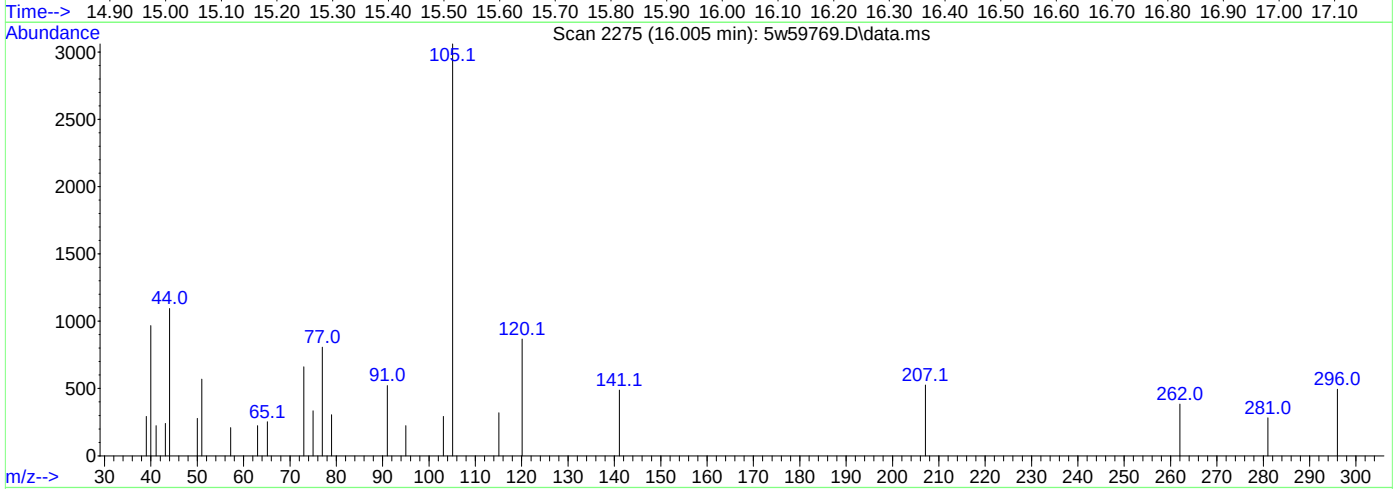
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	42.57
119.10	2.30	9.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.005min (+0.043) 0.04PPBV m

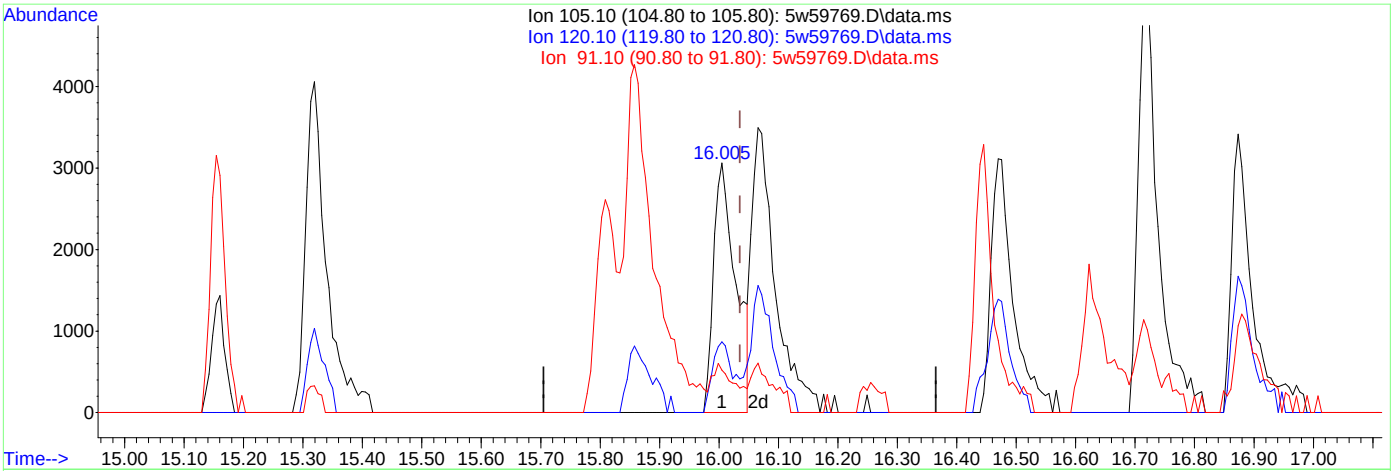
response 7489

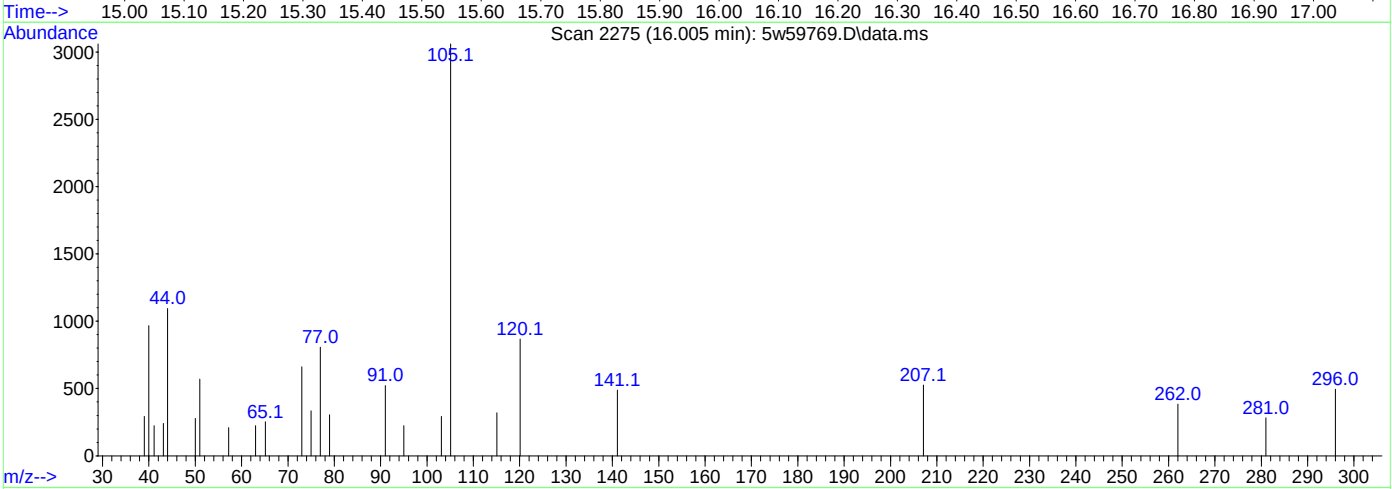
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	54.99
119.10	2.30	12.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.005min (-0.030) 0.04PPBV

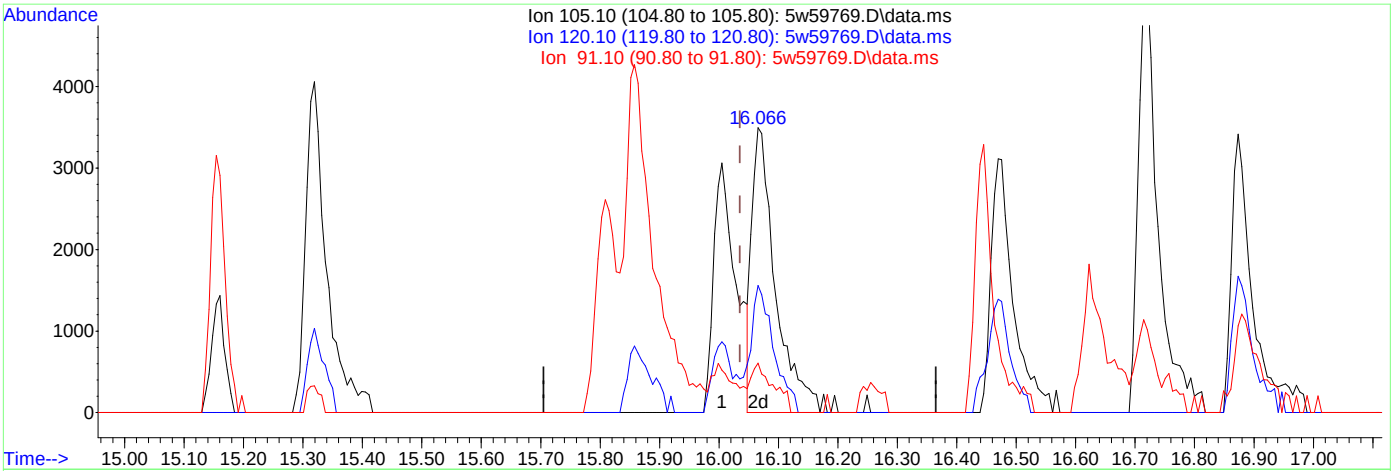
response 7976

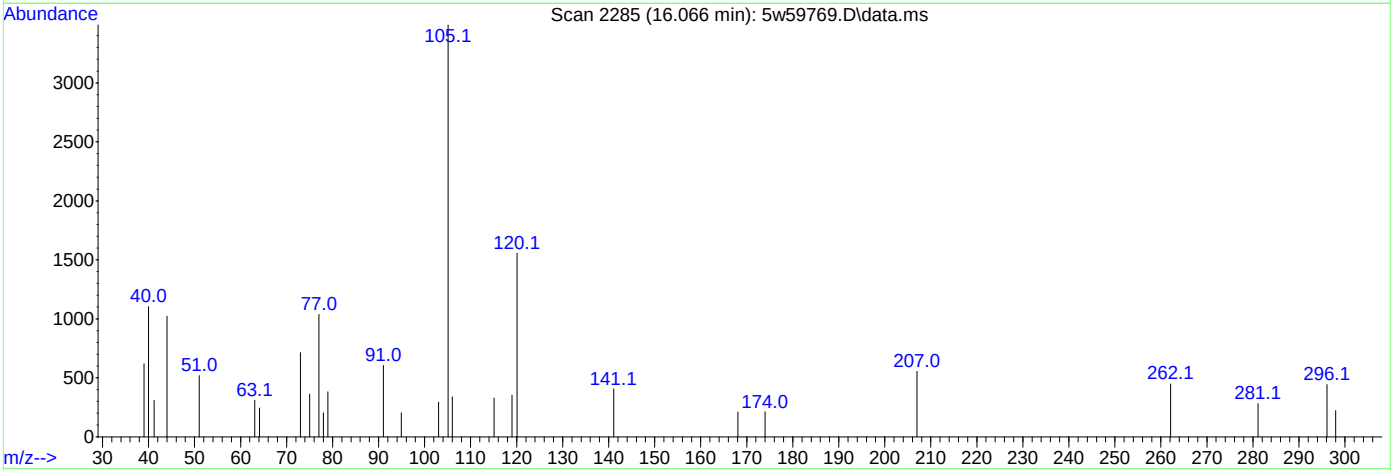
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	28.45
91.10	10.80	20.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.066min (+0.031) 0.05PPBV m

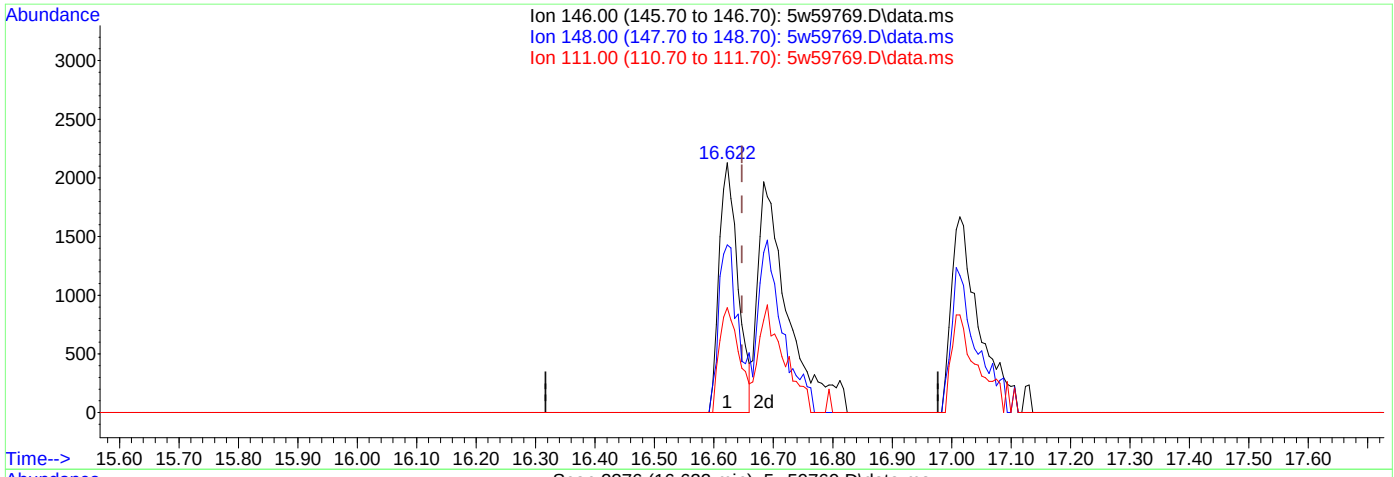
response 9751

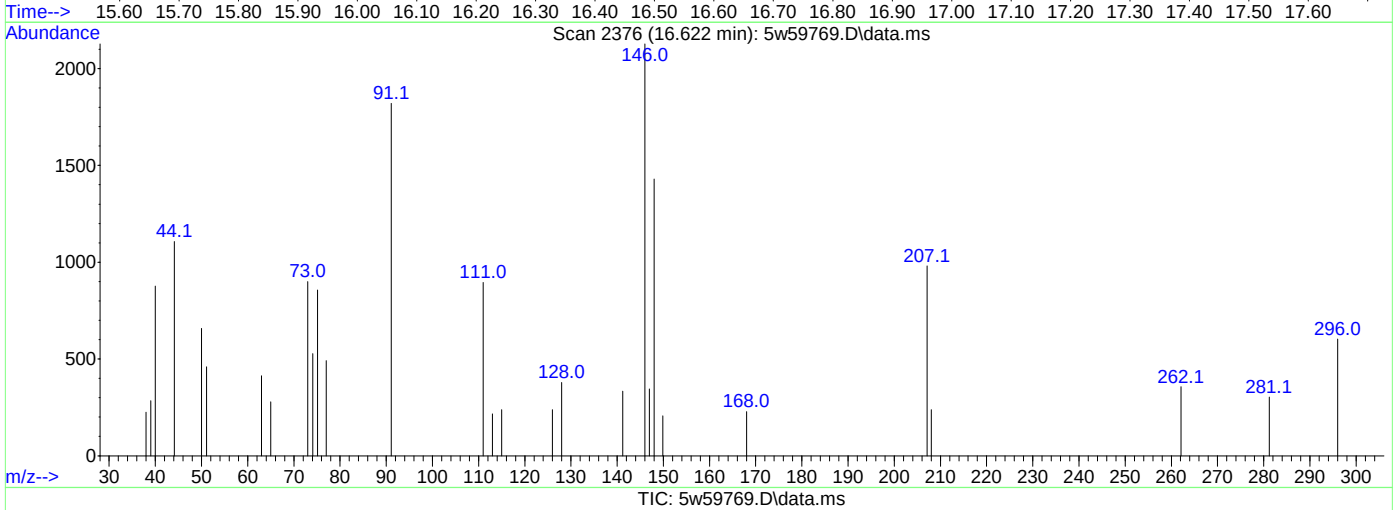
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	23.27
91.10	10.80	17.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.622min (-0.025) 0.03PPBV

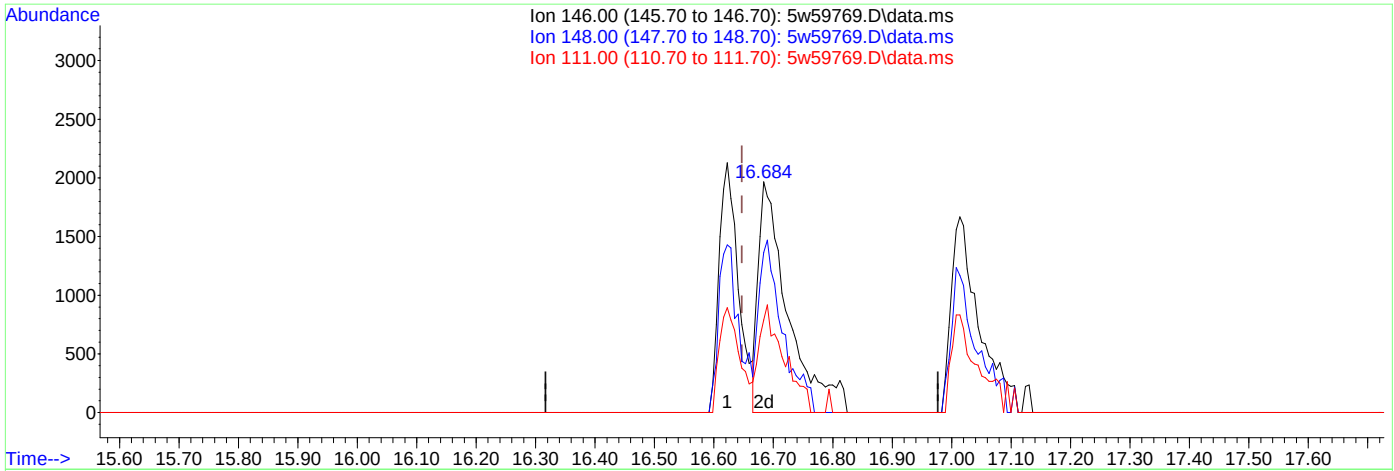
response 4669

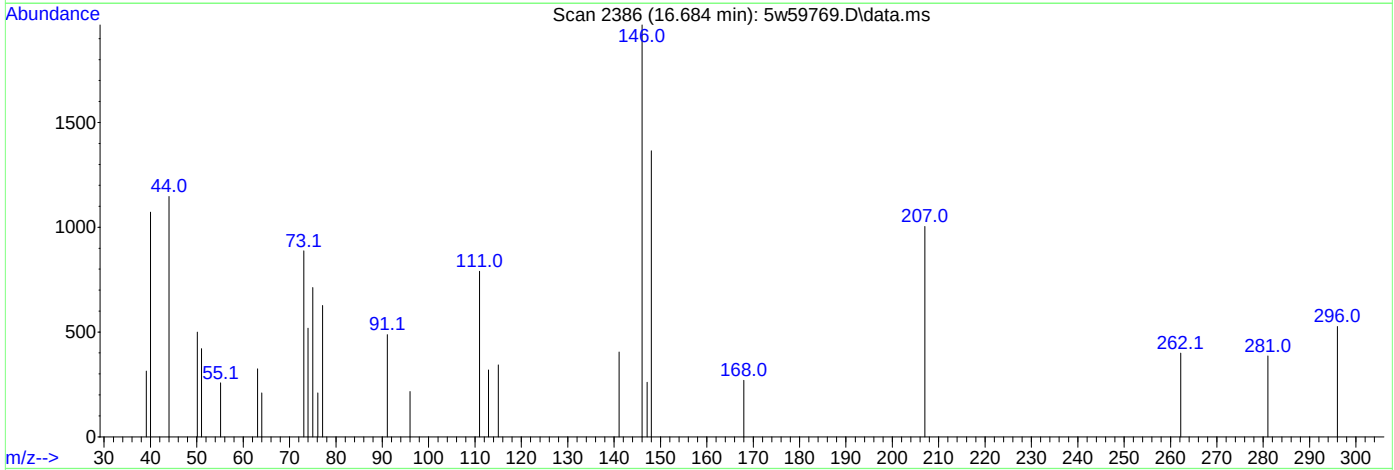
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	73.29
111.00	36.70	44.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.684min (+0.037) 0.05PPBV m

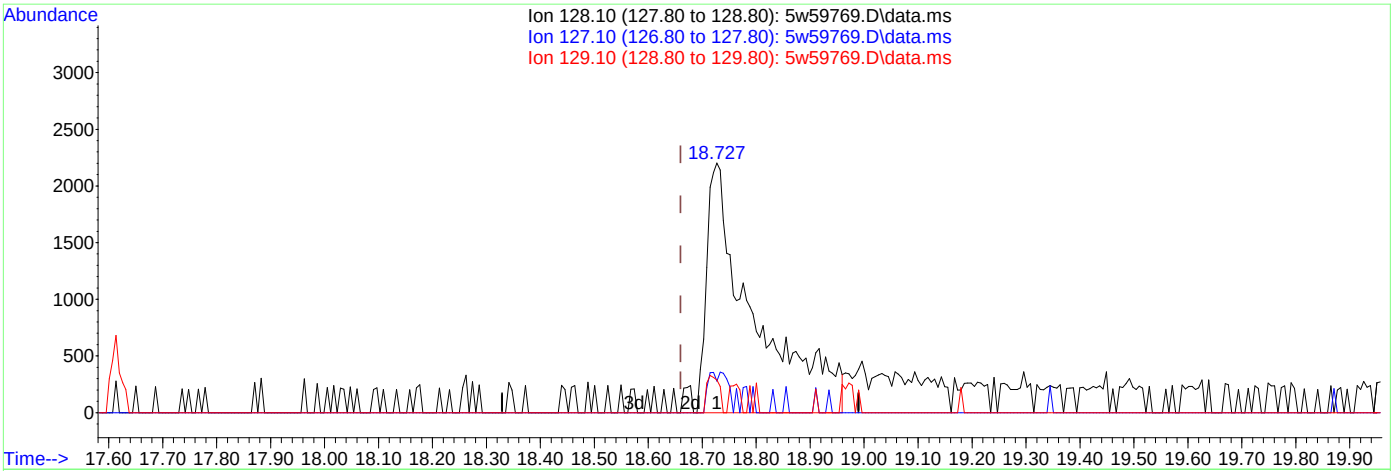
response 6829

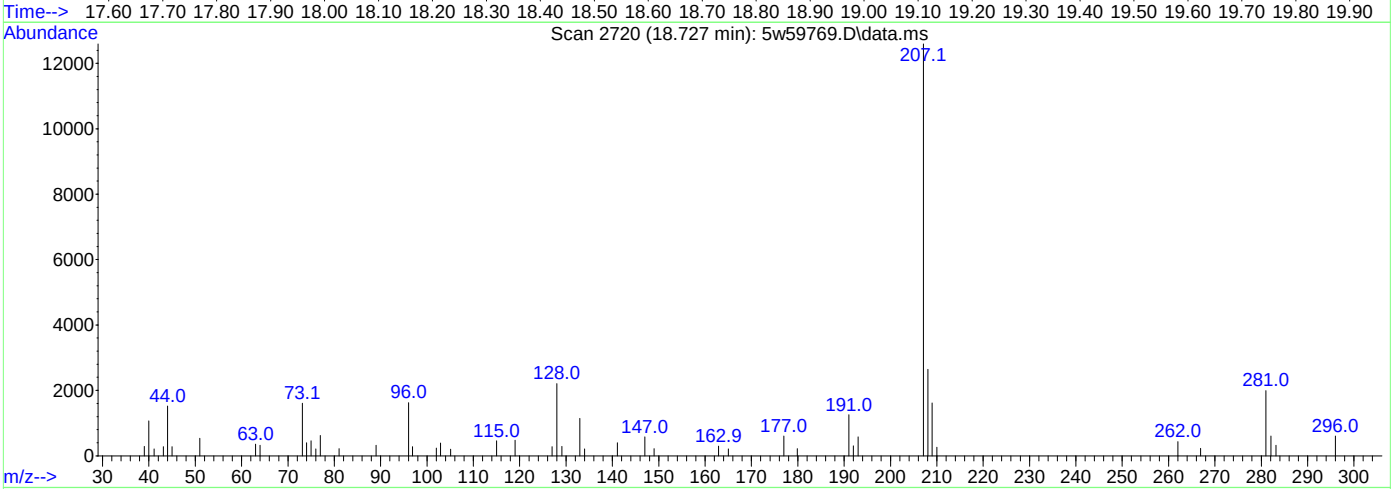
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	50.11
111.00	36.70	30.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.05PPBV

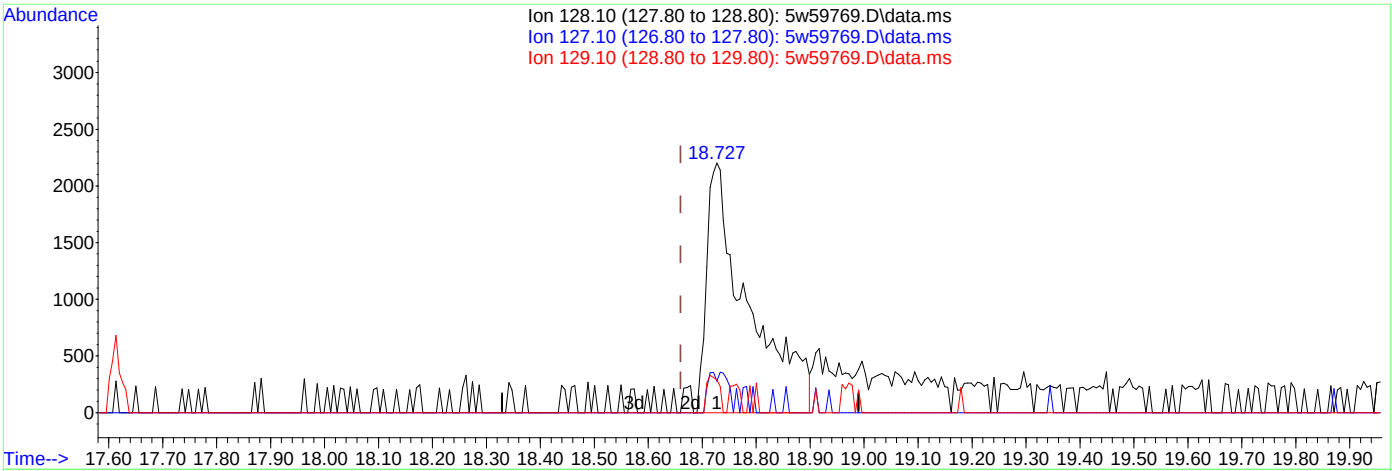
response 13130

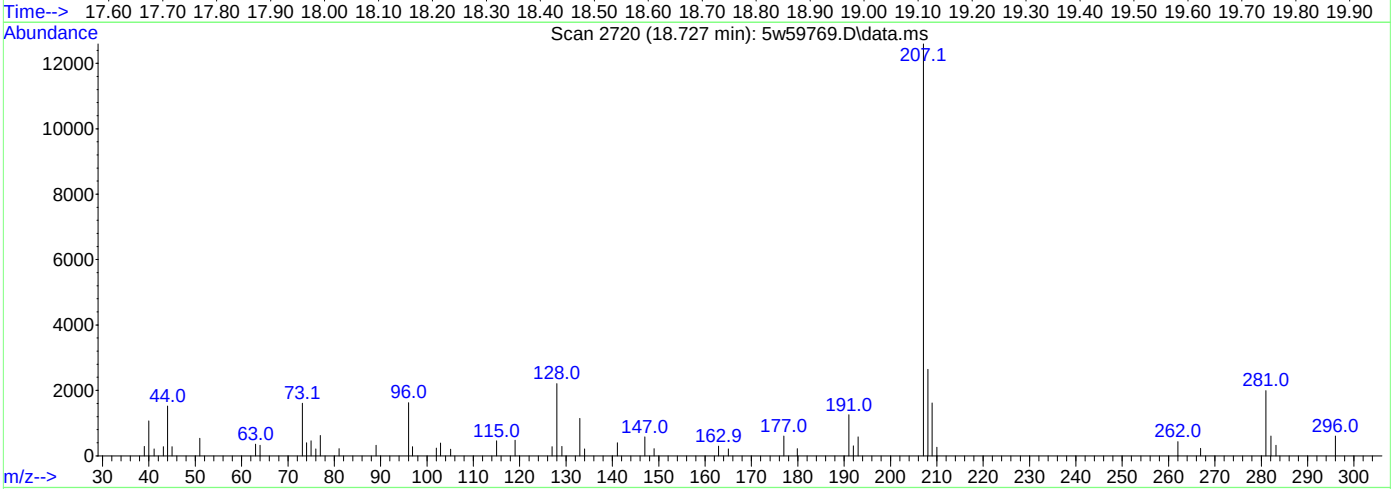
Ion	Exp%	Act%
128.10	100	100
127.10	13.30	6.81
129.10	11.40	3.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.04PPBV m

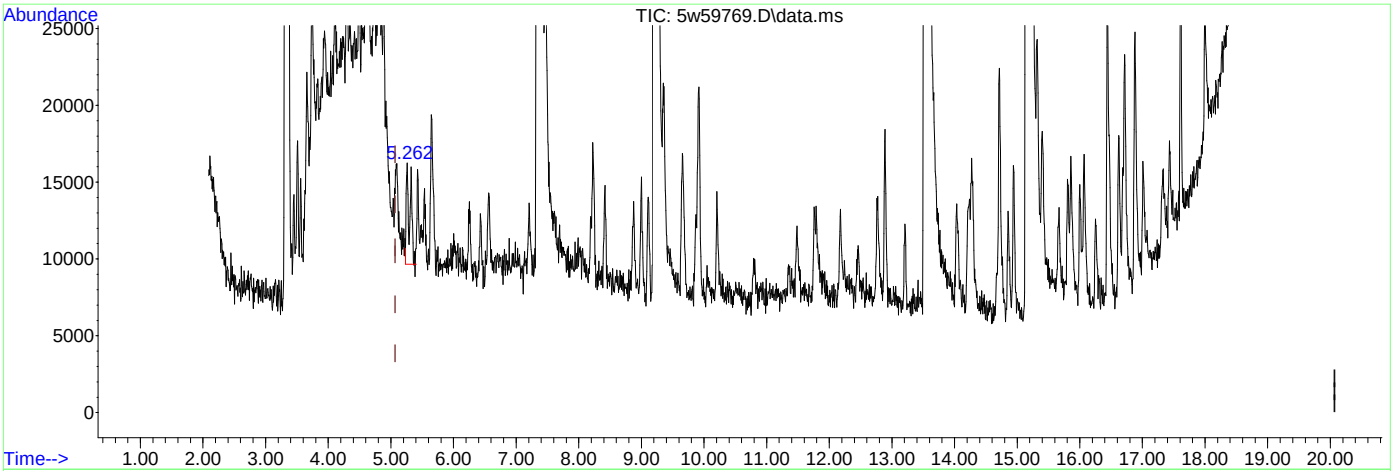
response 11614

Ion	Exp%	Act%
128.10	100	100
127.10	13.30	7.70
129.10	11.40	4.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration



TIC: 5w59769.D\data.ms

(110) TVHC as equiv Pentane

5.262min (+0.190) 0.10PPBV

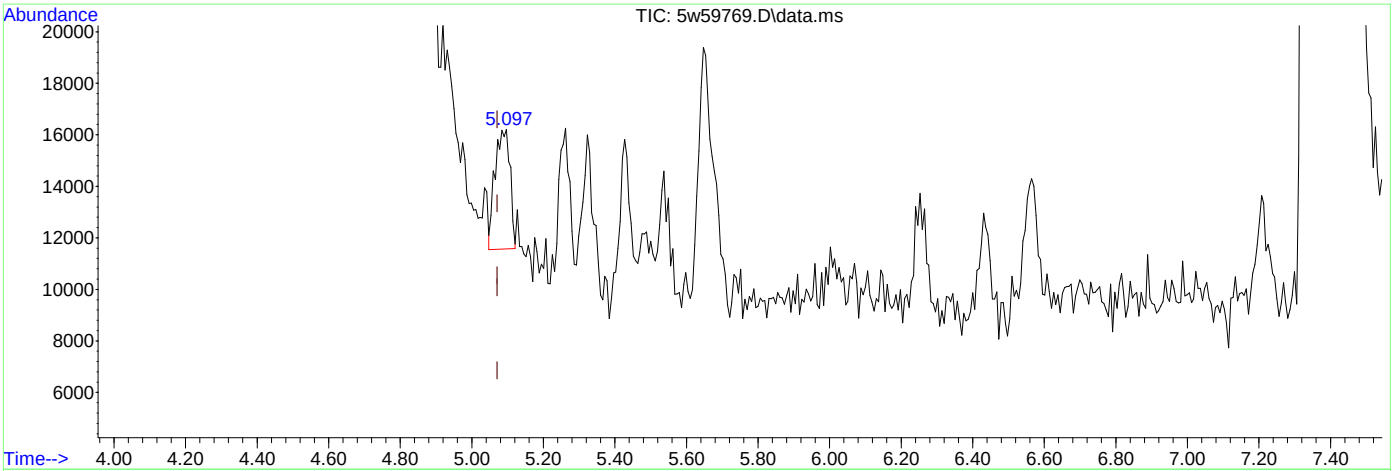
response 28223

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration



TIC: 5w59769.D\data.ms

(110) TVHC as equiv Pentane

5.097min (+0.025) 0.05PPBV m

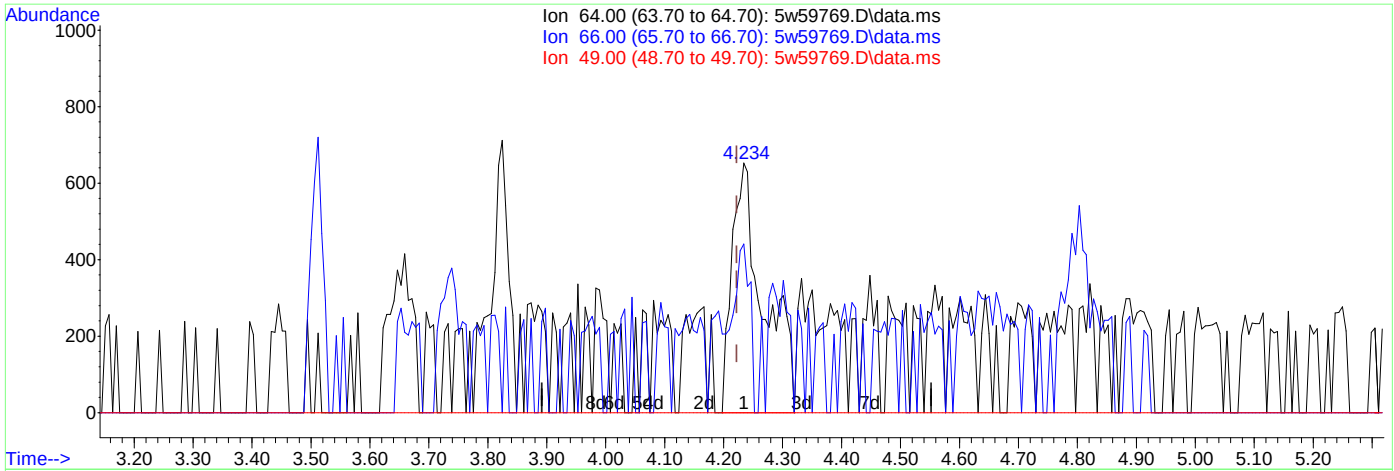
response 13430

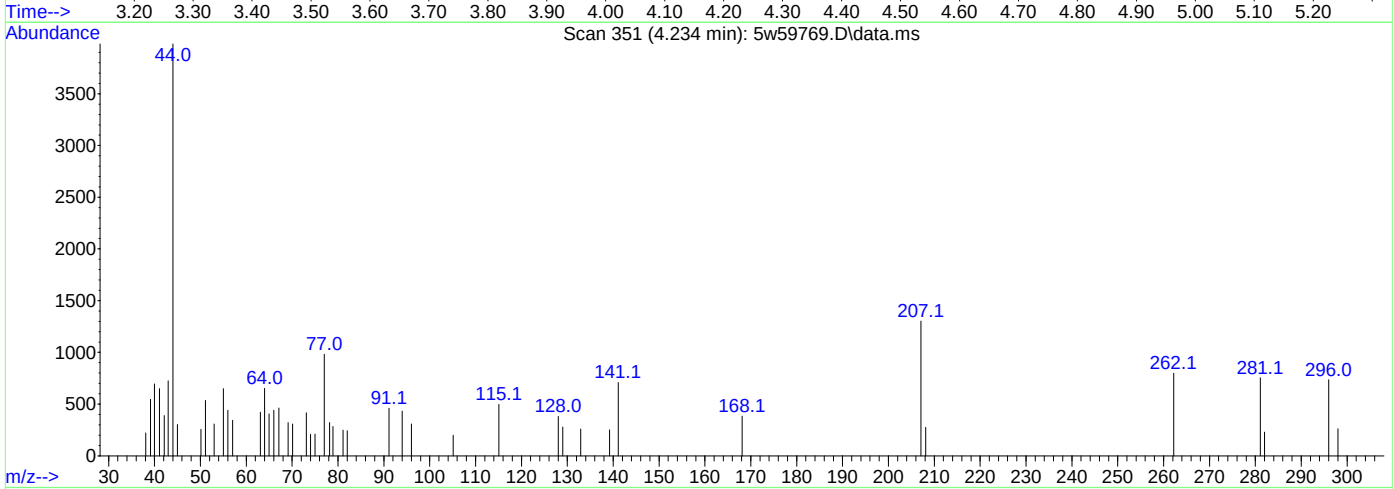
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.11PPBV

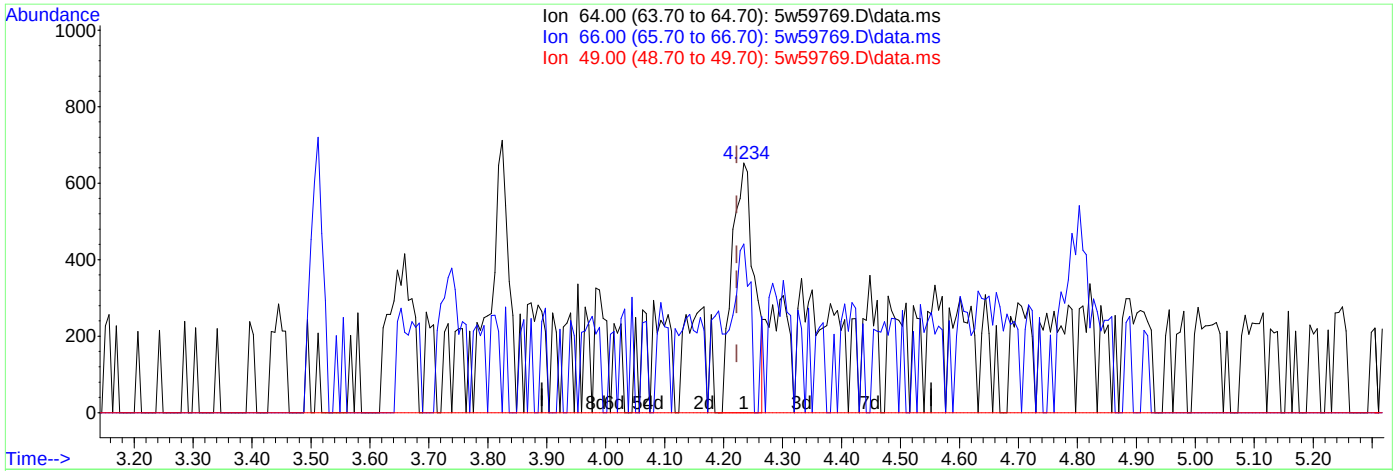
response 2438

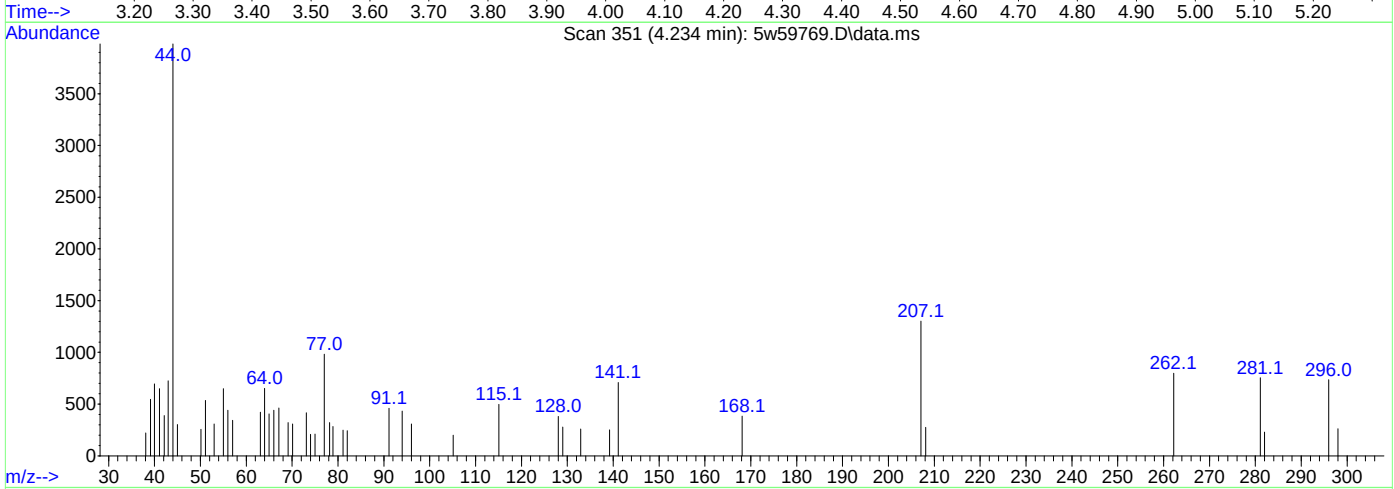
Ion	Exp%	Act%
64.00	100	100
66.00	33.10	31.58
49.00	25.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.08PPBV m

response 1697

Ion	Exp%	Act%
64.00	100	100
66.00	33.10	45.37
49.00	25.30	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	483296	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2143191	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1063437	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	486994	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1424858	10.91	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.10%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	3221	0.10	PPBV		95
3) FREON 152A	3.445	65	4358	0.13	PPBV		89
4) CHLORODIFLUOROMETHANE	3.482	67	1589	0.10	PPBV		90
5) CHLOROTRIFLUOROETHENE	3.506	116	7707	0.10	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	15163	0.11	PPBV		95
7) PROPYLENE	3.506	41	4519	0.13	PPBV	#	69
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13862	0.13	PPBV		96
9) FREON 114	3.732	85	15211	0.12	PPBV		98
10) CHLOROMETHANE	3.665	52	1901	0.13	PPBV	#	75
11) VINYL CHLORIDE	3.818	62	4992	0.11	PPBV		78
12) 1,3-BUTADIENE	3.916	54	3400	0.13	PPBV		93
13) n-BUTANE	3.947	43	5567	0.13	PPBV	#	95
14) BROMOMETHANE	4.106	94	5574	0.12	PPBV		88
15) CHLOROETHANE	4.228	64	3723	0.18	PPBV		72
16) DICHLOROFLUOROMETHANE	4.289	67	10972	0.11	PPBV		90
17) ACETONITRILE	4.522	41	2670m	0.10	PPBV		
18) ACROLEIN	4.601	56	1642m	0.11	PPBV		
19) FREON 123	4.595	83	13808m	0.13	PPBV		
20) FREON 123A	4.638	117	8167	0.13	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	13248	0.11	PPBV		89
22) ISOPROPYL ALCOHOL	4.932	45	12850	0.15	PPBV		84
23) ACETONE	4.724	58	3503	0.18	PPBV		87
24) PENTANE	5.072	42	6510	0.15	PPBV	#	42
25) IODOMETHANE	5.256	142	16474	0.11	PPBV		98
26) 1,1-DICHLOROETHYLENE	5.317	96	6043	0.12	PPBV		88
27) CARBON DISULFIDE	5.672	76	15443	0.12	PPBV		89
28) ETHANOL	4.344	45	5592	0.26	PPBV		87
29) BROMOETHENE	4.485	106	5356	0.11	PPBV		95
30) ACRYLONITRILE	5.091	52	3869	0.12	PPBV	#	91
31) METHYLENE CHLORIDE	5.427	84	6090	0.14	PPBV		98
32) 3-CHLOROPROPENE	5.531	76	2581	0.11	PPBV	#	52
33) FREON 113	5.647	151	8991	0.10	PPBV		97
34) TRANS-1,2-DICHLOROETHY...	6.247	96	6117	0.12	PPBV		82
35) TERTIARY BUTYL ALCOHOL	5.476	59	9217	0.09	PPBV		76
36) METHYL TERTIARY BUTYL ...	6.547	73	15796	0.12	PPBV		87
37) TETRAHYDROFURAN	7.966	72	1469	0.08	PPBV	#	45
38) HEXANE	7.385	57	9533	0.13	PPBV		83
40) 1,1-DICHLOROETHANE	6.430	63	12904	0.14	PPBV		91
41) METHYL ETHYL KETONE	6.920	72	956m	0.05	PPBV		
42) cis-1,2-DICHLOROETHYLENE	7.207	96	6979	0.13	PPBV		77
43) DIISOPROPYL ETHER	7.452	59	1846	0.09	PPBV	#	39
44) ETHYL ACETATE	7.544	61	434m	0.03	PPBV		
45) METHYL ACRYLATE	7.507	55	6719m	0.08	PPBV		
46) CHLOROFORM	7.483	83	11842	0.11	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	9616	0.11	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	11905	0.11	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	12586	0.10	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

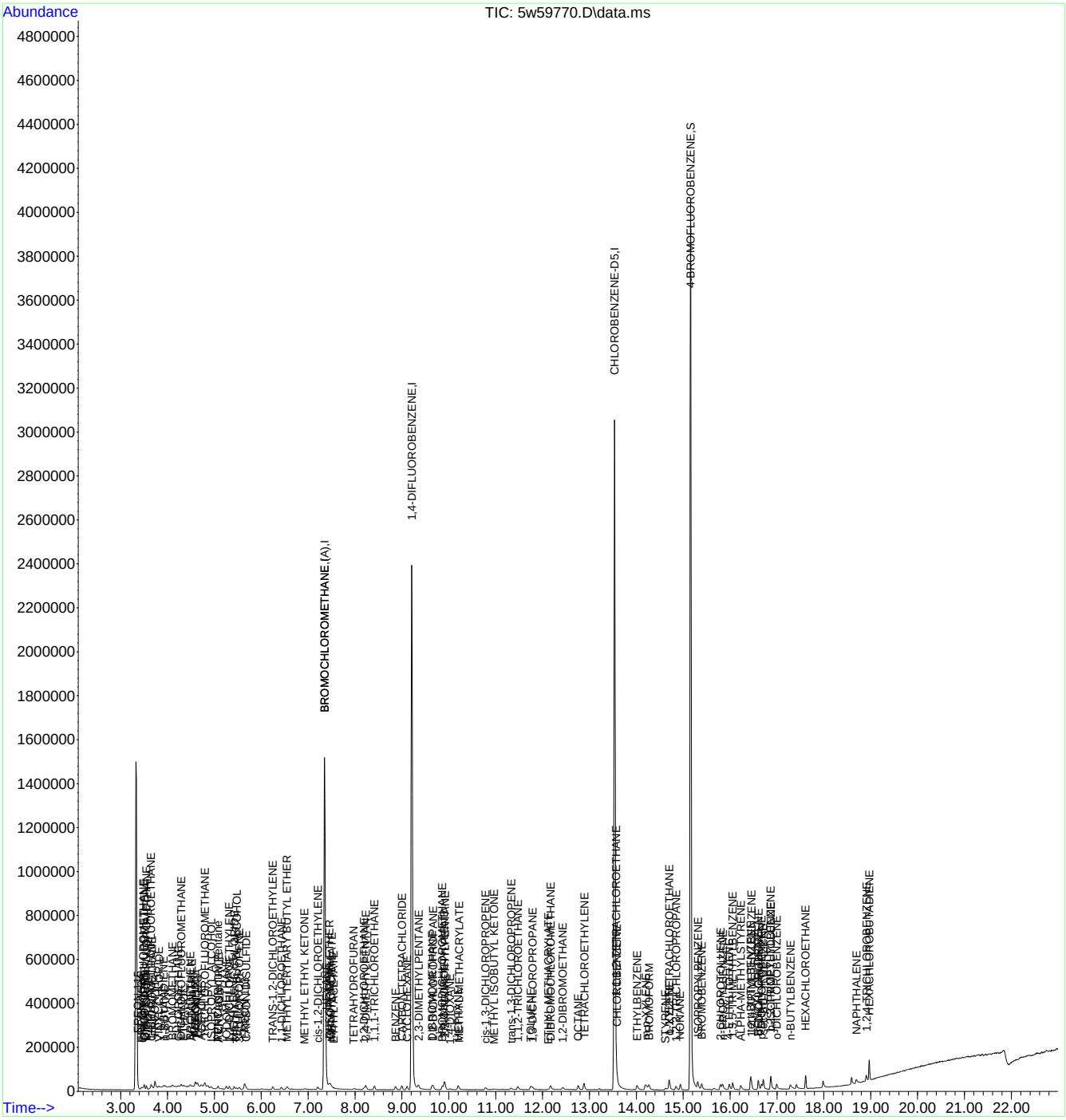
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	8.186	62	7761	0.10	PPBV		85
52)	BENZENE	8.865	78	15430	0.11	PPBV		91
53)	CYCLOHEXANE	9.110	84	5905	0.10	PPBV		90
54)	2,3-DIMETHYLPENTANE	9.361	71	2989	0.10	PPBV		89
55)	TRICHLOROETHYLENE	9.899	95	7303	0.10	PPBV		98
56)	1,2-DICHLOROPROPANE	9.667	63	9099	0.15	PPBV		85
57)	DIBROMOMETHANE	9.642	174	8479	0.11	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	12436	0.10	PPBV		94
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	24769	0.11	PPBV		93
61)	1,4-DIOXANE	10.028	88	3670	0.11	PPBV	#	1
62)	HEPTANE	10.199	43	10112	0.13	PPBV		90
63)	METHYL METHACRYLATE	10.217	69	3857	0.08	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.964	58	2182	0.05	PPBV	#	26
65)	cis-1,3-DICHLOROPROPENE	10.780	75	10824	0.11	PPBV		90
66)	TOLUENE	11.747	92	10446	0.10	PPBV		90
67)	1,3-DICHLOROPROPANE	11.789	76	9064	0.10	PPBV	#	90
68)	trans-1,3-DICHLOROPROPENE	11.331	75	9955	0.11	PPBV		88
69)	1,1,2-TRICHLOROETHANE	11.471	83	5972	0.10	PPBV		90
72)	ETHYL METHACRYLATE	12.120	69	5758	0.08	PPBV	#	65
73)	TETRACHLOROETHYLENE	12.891	164	8344	0.12	PPBV		90
74)	DIBROMOCHLOROMETHANE	12.169	129	13809	0.11	PPBV		97
75)	1,2-DIBROMOETHANE	12.426	107	10727	0.11	PPBV	#	98
76)	OCTANE	12.756	43	11856	0.13	PPBV		95
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	8635	0.11	PPBV		99
78)	CHLOROBENZENE	13.588	112	15456	0.12	PPBV	#	49
79)	ETHYLBENZENE	14.016	91	24398	0.12	PPBV		95
80)	m,p-XYLENE	14.200	106	17695	0.22	PPBV		94
81)	o-XYLENE	14.701	106	8363	0.11	PPBV		88
82)	STYRENE	14.616	104	12755	0.11	PPBV		84
83)	NONANE	14.934	43	13253	0.14	PPBV		94
84)	BROMOFORM	14.267	173	12500	0.10	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.701	83	15380	0.12	PPBV		96
87)	1,2,3-TRICHLOROPROPANE	14.848	75	13012	0.13	PPBV		86
88)	ISOPROPYLBENZENE	15.313	105	26261	0.12	PPBV		98
89)	BROMOBENZENE	15.393	77	13681	0.12	PPBV		90
90)	2-CHLOROTOLUENE	15.797	126	6870	0.11	PPBV		79
91)	n-PROPYLBENZENE	15.845	120	6334	0.10	PPBV		96
92)	4-ETHYLTOLUENE	15.980	105	22792	0.11	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.054	105	24501	0.13	PPBV		92
94)	ALPHA-METHYLSTYRENE	16.231	118	9018	0.09	PPBV		93
95)	tert-BUTYLBENZENE	16.439	134	4502	0.11	PPBV		89
96)	1,2,4-TRIMETHYLBENZENE	16.457	105	21144	0.12	PPBV		95
97)	m-DICHLOROBENZENE	16.604	146	14099	0.10	PPBV		98
98)	BENZYL CHLORIDE	16.598	91	15140	0.09	PPBV		92
99)	p-DICHLOROBENZENE	16.671	146	17844	0.12	PPBV		99
100)	sec-BUTYLBENZENE	16.708	134	5680	0.11	PPBV	#	86
101)	1,2,3-TRIMETHYLBENZENE	16.861	105	23306	0.12	PPBV		93
102)	p-ISOPROPYLTOLUENE	16.867	134	6197	0.11	PPBV	#	80
103)	o-DICHLOROBENZENE	16.996	146	15528	0.11	PPBV		97
104)	n-BUTYLBENZENE	17.289	134	5383	0.09	PPBV	#	64
105)	HEXACHLOROETHANE	17.607	117	10817	0.11	PPBV		96
106)	HEXACHLOROBUTADIENE	18.966	225	14991	0.12	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.910	180	13603	0.10	PPBV		93
108)	NAPHTHALENE	18.696	128	31596	0.11	PPBV		94
110)	TVHC as equiv Pentane	5.078	TIC	29029	0.10	PPBV		100

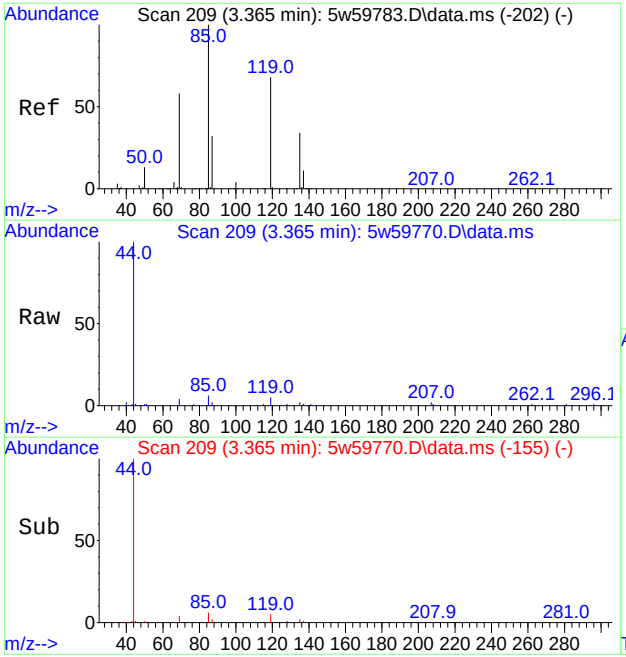
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

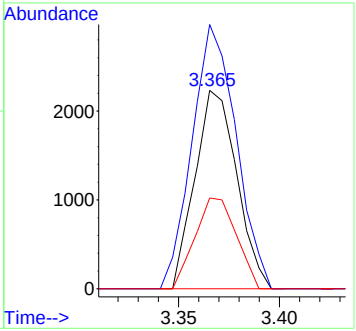


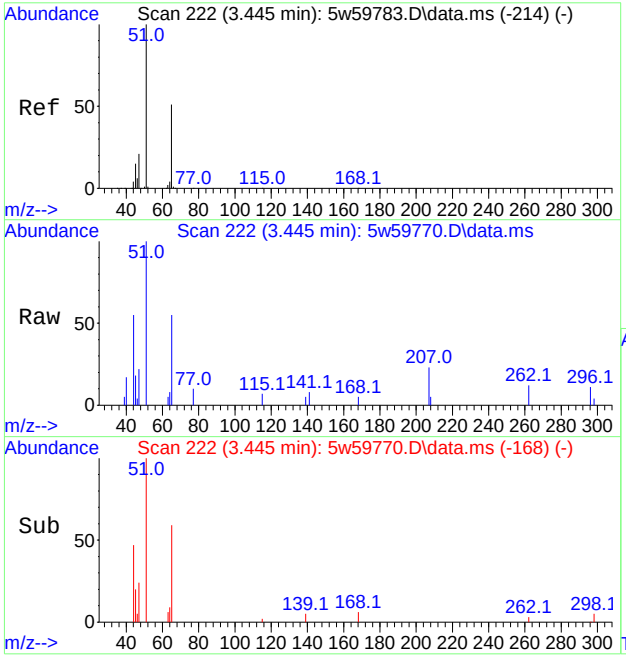


#2
FREON 115
Concen: 0.10 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:119 Resp: 3221

Ion	Ratio	Lower	Upper
119	100		
85	140.3	116.2	176.2
135	45.2	20.6	80.6

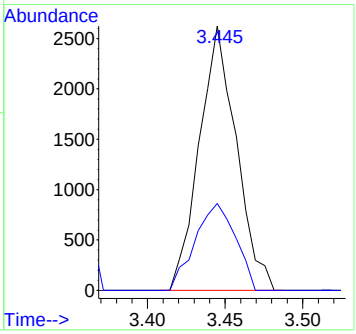


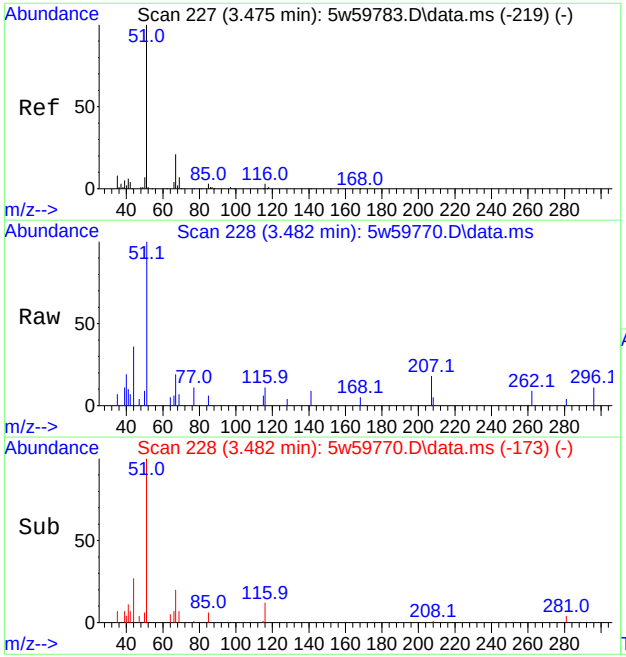


#3
FREON 152A
Concen: 0.13 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 4358

Ion	Ratio	Lower	Upper
65	100		
45	35.8	0.0	60.0

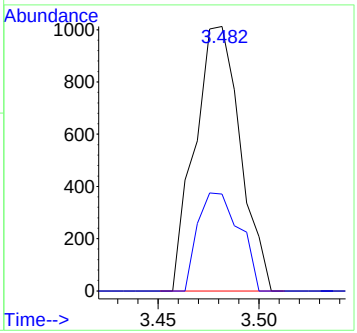


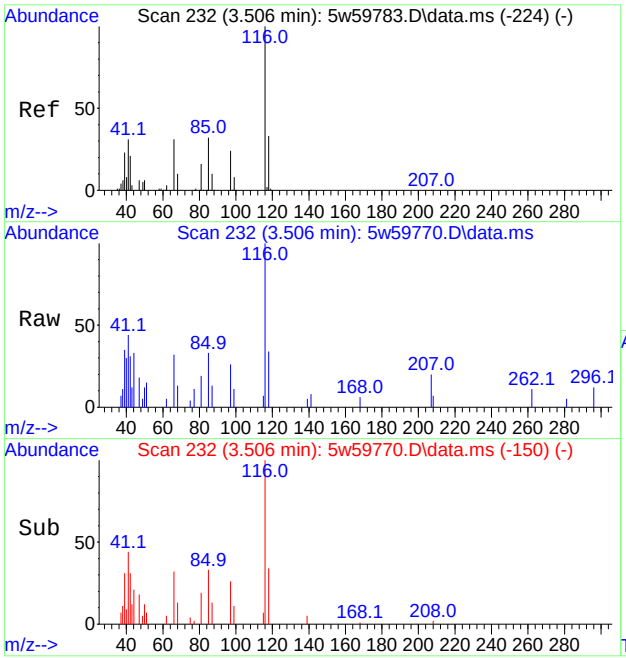


#4
CHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 1589

Ion	Ratio	Lower	Upper
67	100		
69	36.6	1.0	61.0

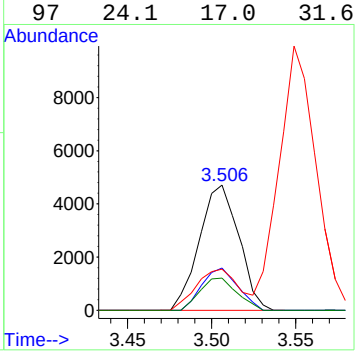


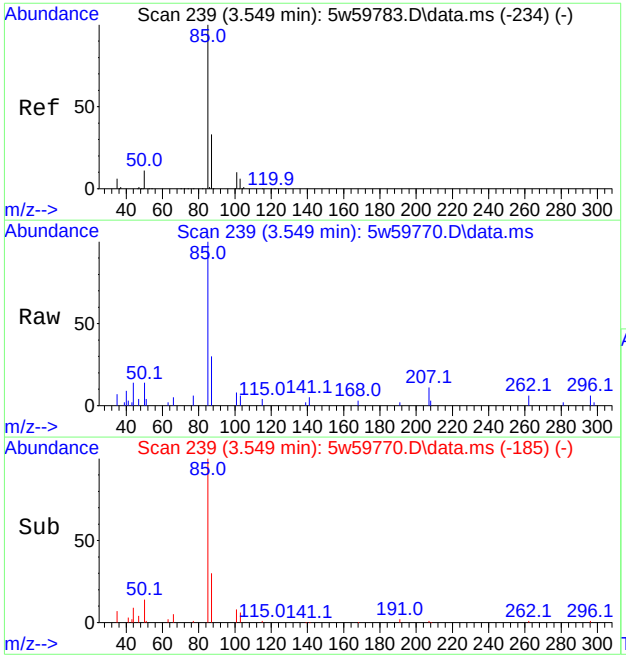


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:116 Resp: 7707

Ion	Ratio	Lower	Upper
116	100		
118	30.8	22.9	42.5
85	36.3	23.7	44.1
97	24.1	17.0	31.6

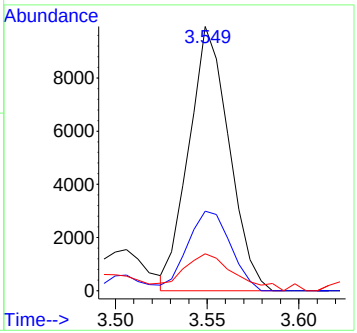


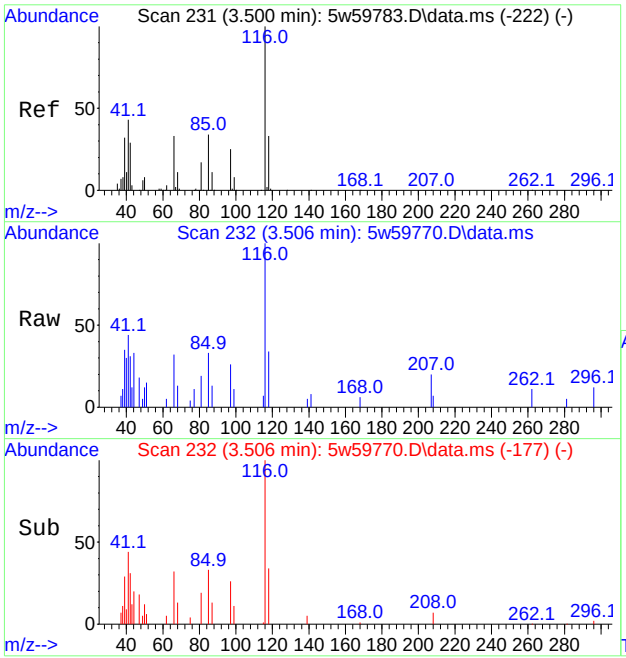


#6
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15163

Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.5	62.5
50	18.6	0.0	41.7

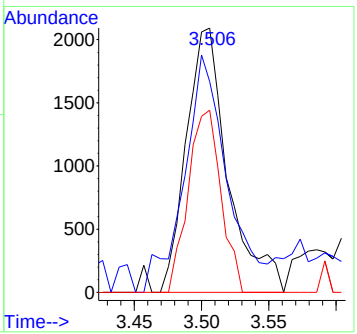


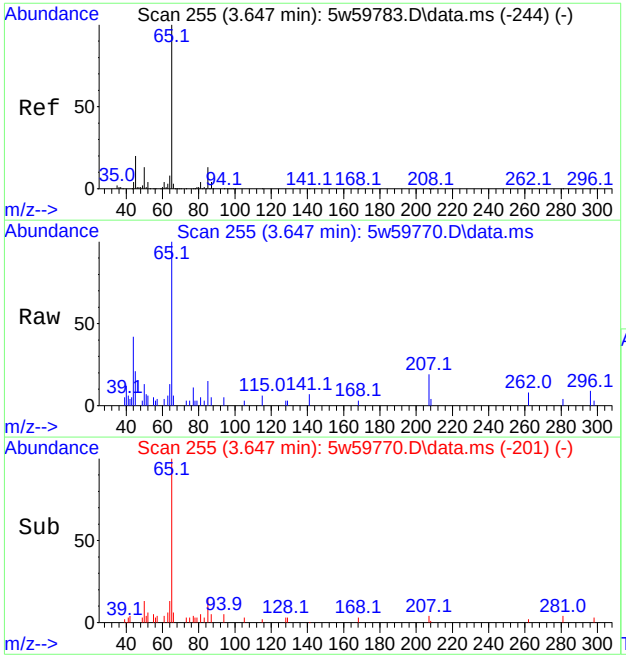


#7
PROPYLENE
Concen: 0.13 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 4519

Ion	Ratio	Lower	Upper
41	100		
39	113.7	45.1	105.1#
42	54.2	36.3	96.3

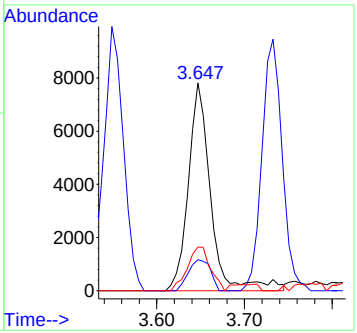


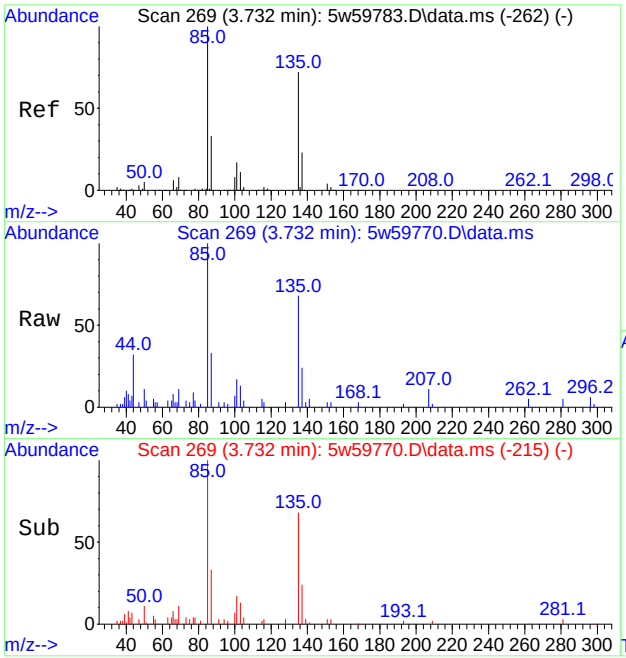


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.13 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 13862

Ion	Ratio	Lower	Upper
65	100		
85	14.7	11.5	21.3
45	21.5	14.0	26.0

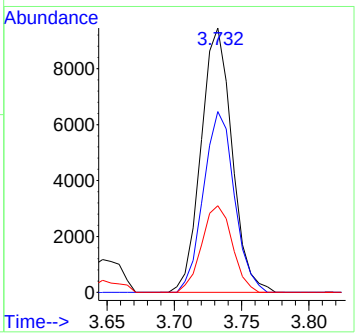


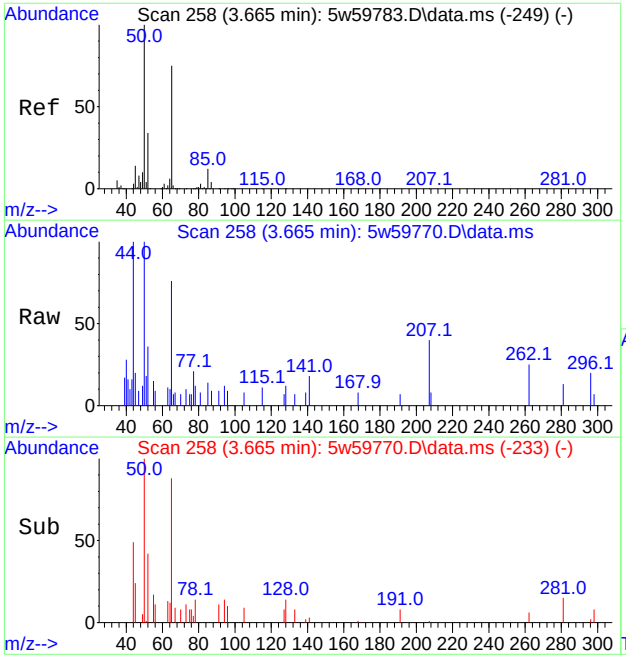


#9
FREON 114
Concen: 0.12 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15211

Ion	Ratio	Lower	Upper
85	100		
135	68.1	40.5	100.5
87	32.4	3.0	63.0

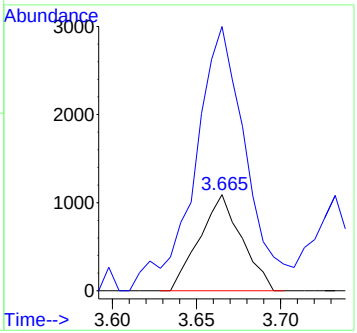


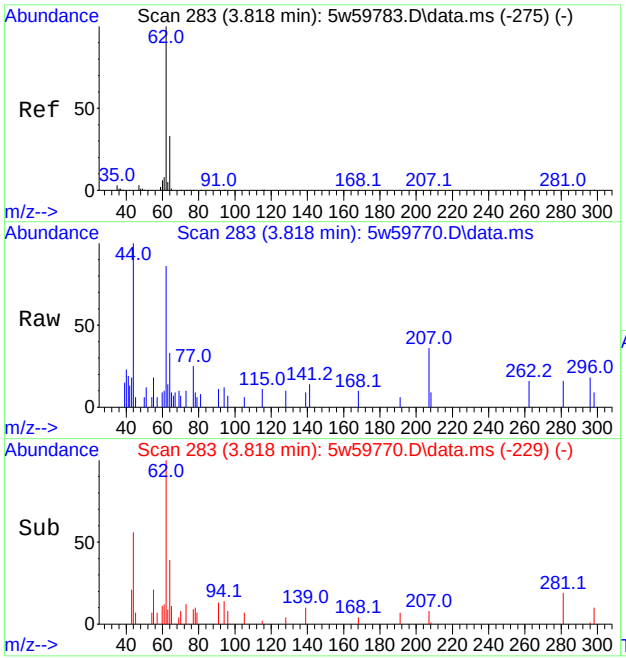


#10
CHLOROMETHANE
Concen: 0.13 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 1901

Ion	Ratio	Lower	Upper
52	100		
50	249.3	267.9	327.9#

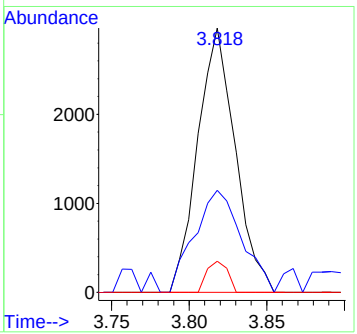


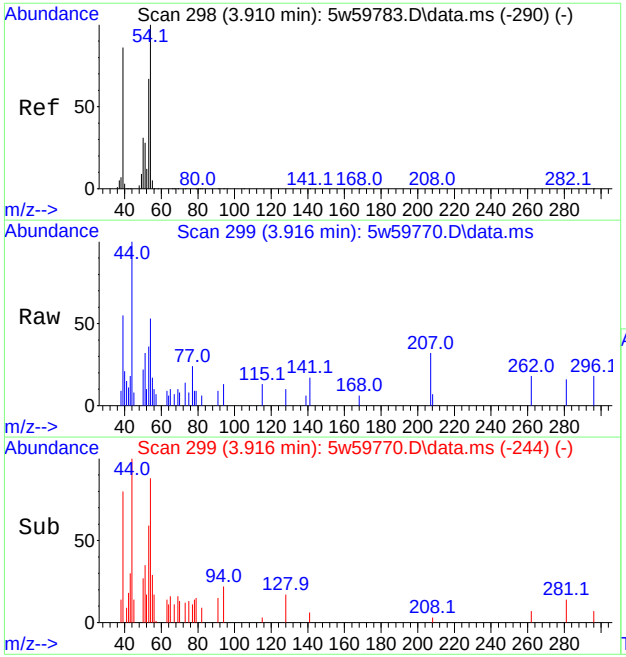


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 4992

Ion	Ratio	Lower	Upper
62	100		
64	48.5	3.6	63.6
61	6.6	0.0	38.2

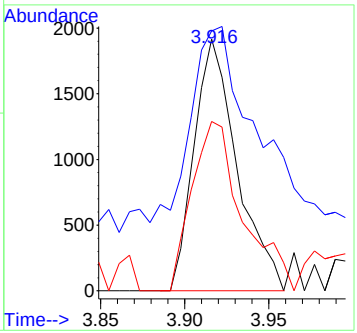


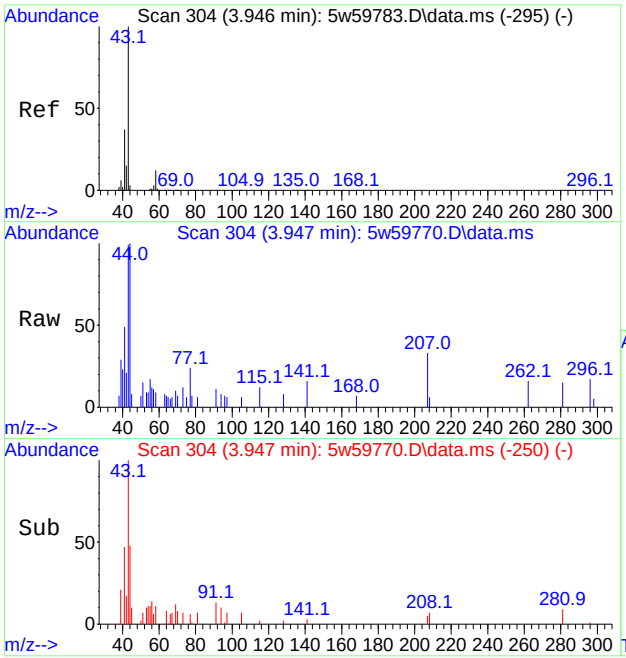


#12
1,3-BUTADIENE
Concen: 0.13 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 54 Resp: 3400

Ion	Ratio	Lower	Upper
54	100		
39	107.9	82.0	142.0
53	79.3	40.2	100.2

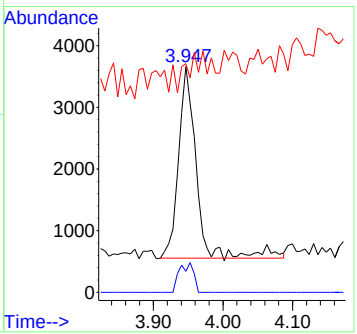


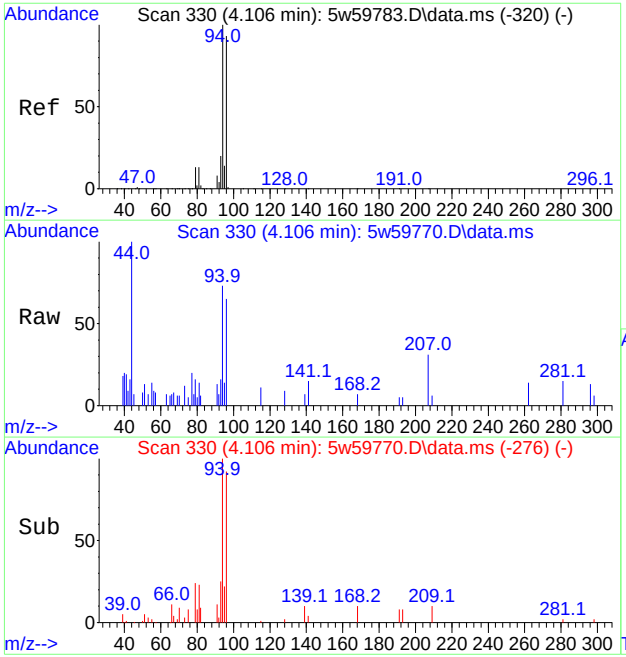


#13
n-BUTANE
Concen: 0.13 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 5567

Ion	Ratio	Lower	Upper
43	100		
58	12.4	0.0	42.6
44	0.0	0.0	34.9

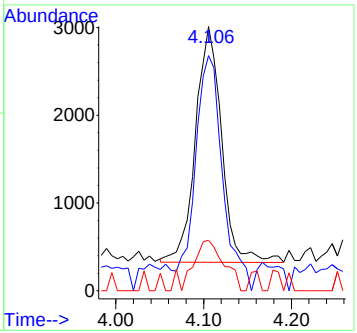


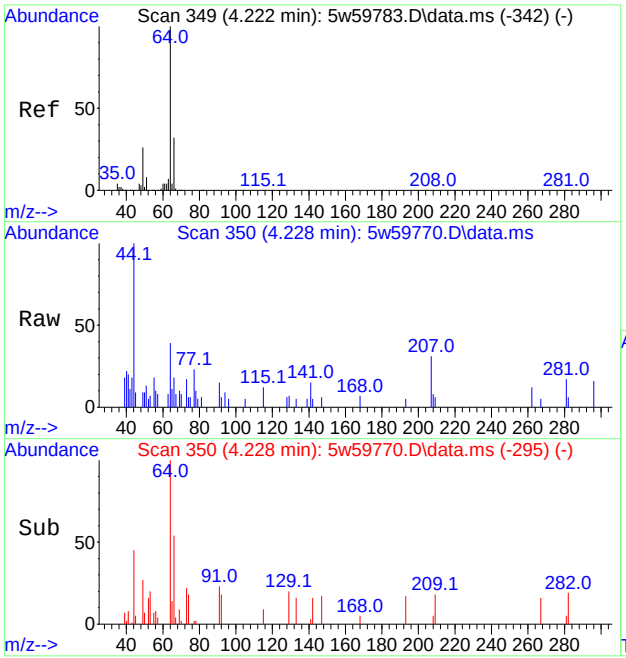


#14
BROMOMETHANE
Concen: 0.12 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 94 Resp: 5574

Ion	Ratio	Lower	Upper
94	100		
96	104.1	65.3	125.3
95	26.0	0.0	44.1

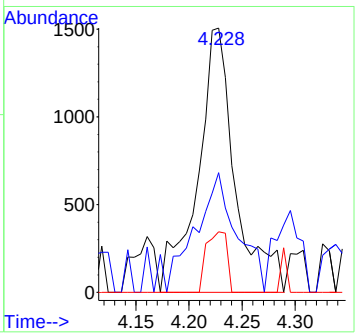


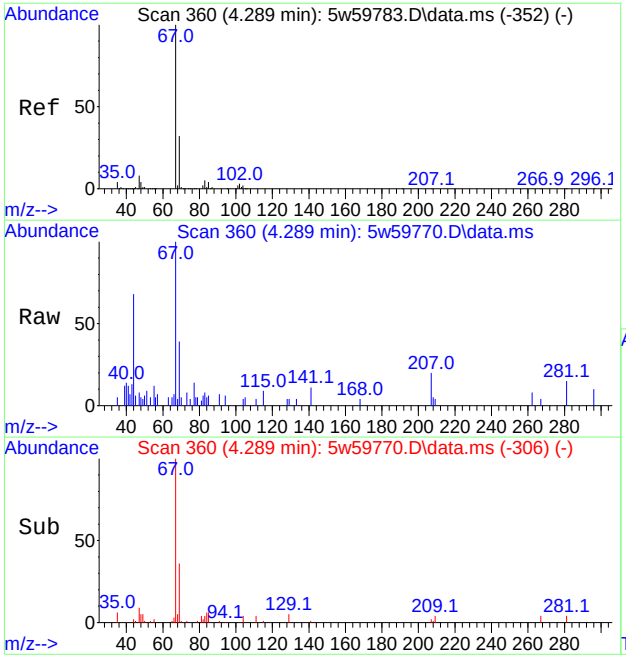


#15
CHLOROETHANE
Concen: 0.18 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 64 Resp: 3723

Ion	Ratio	Lower	Upper
64	100		
66	49.7	3.1	63.1
49	12.5	0.0	55.3

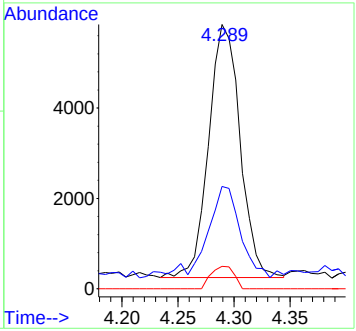


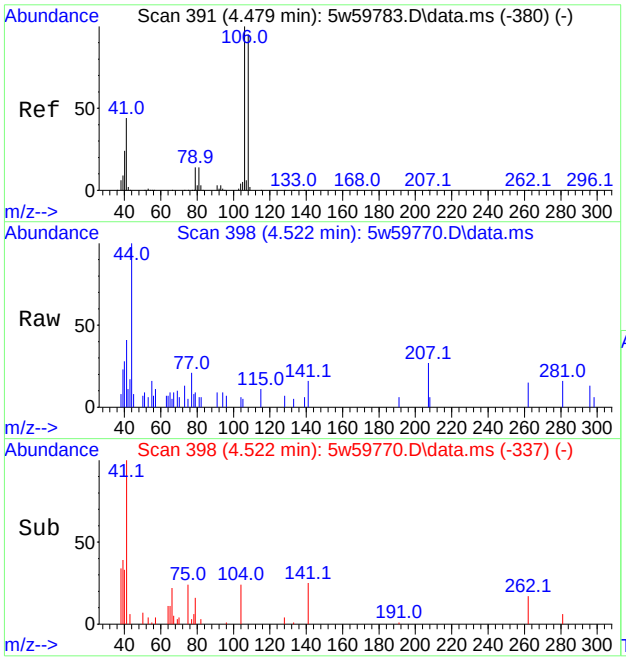


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 10972

Ion	Ratio	Lower	Upper
67	100		
69	38.6	22.7	42.3
47	6.5	5.6	10.4

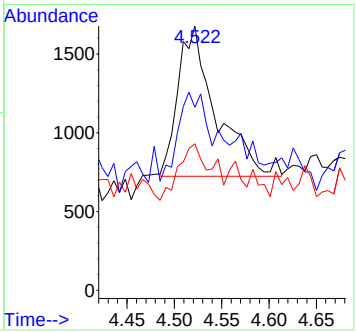


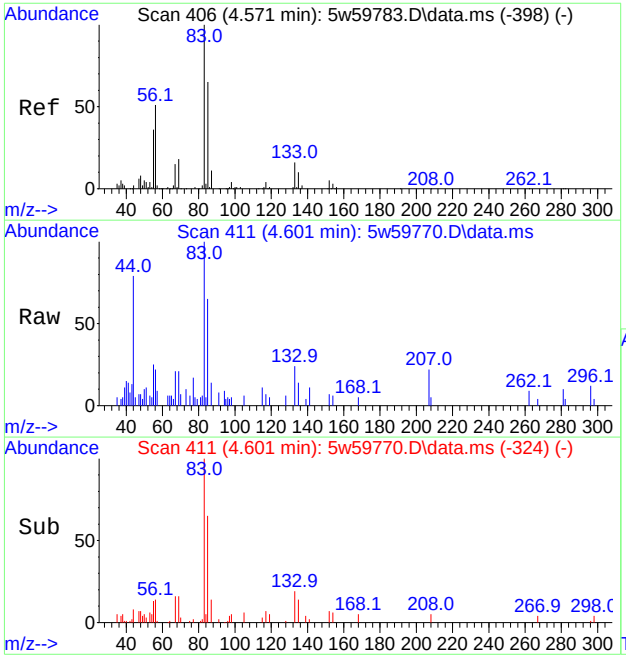


#17
ACETONITRILE
Concen: 0.10 PPBV m
RT: 4.522 min Scan# 398
Delta R.T. 0.043 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 2670

Ion	Ratio	Lower	Upper
41	100		
40	100.2	37.9	70.5#
39	46.6	13.4	24.8#

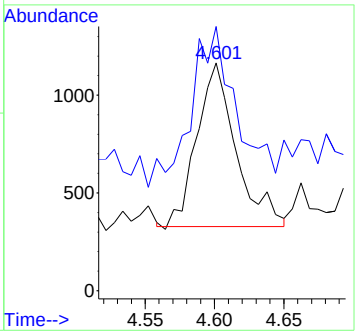


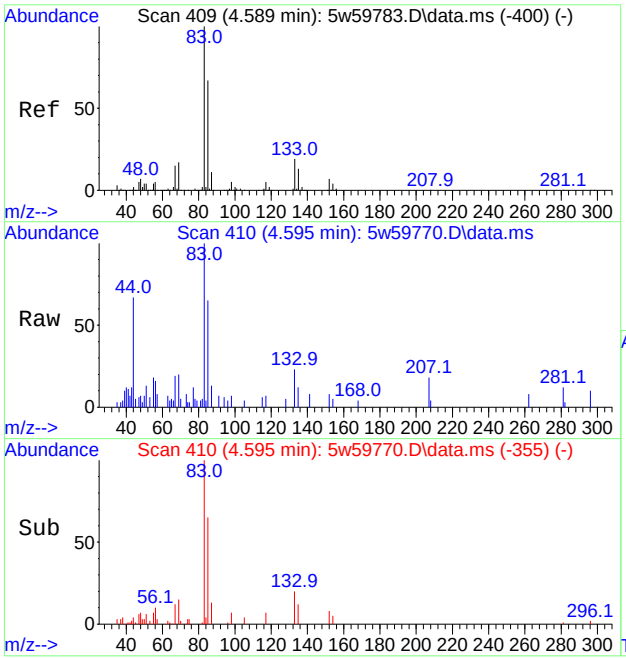


#18
ACROLEIN
Concen: 0.11 PPBV m
RT: 4.601 min Scan# 411
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 56 Resp: 1642

Ion	Ratio	Lower	Upper
56	100		
55	106.4	46.6	86.6#

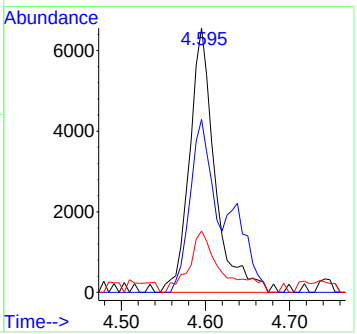


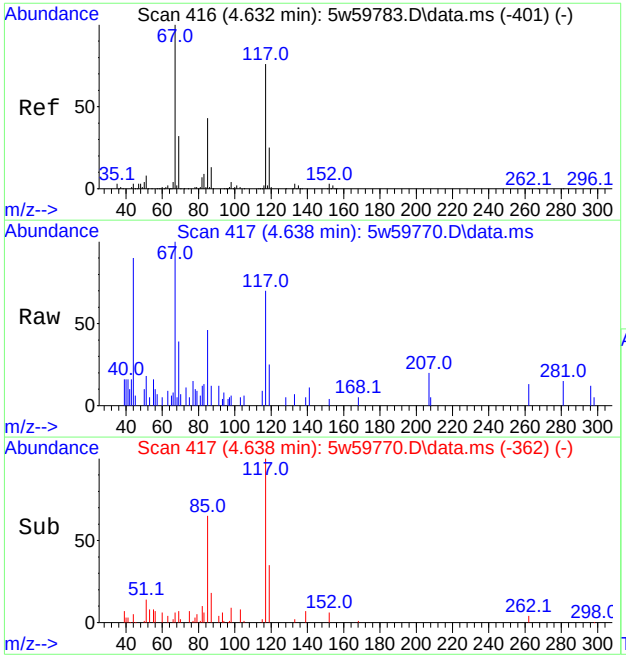


#19
FREON 123
Concen: 0.13 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 13808

Ion	Ratio	Lower	Upper
83	100		
85	60.2	34.0	94.0
133	28.7	0.0	50.7

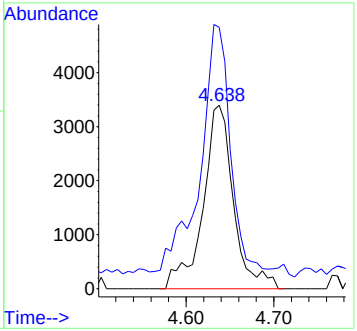


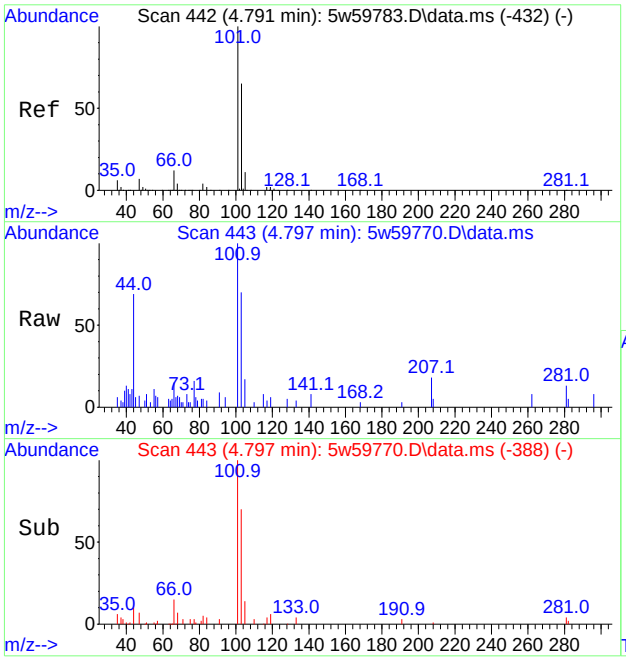


#20
FREON 123A
Concen: 0.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 8167

Ion	Ratio	Lower	Upper
117	100		
67	143.7	114.6	174.6

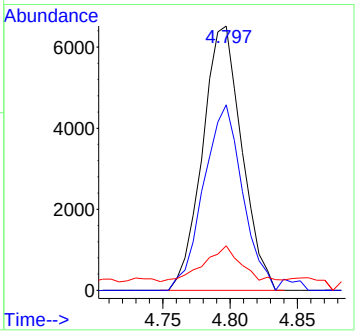


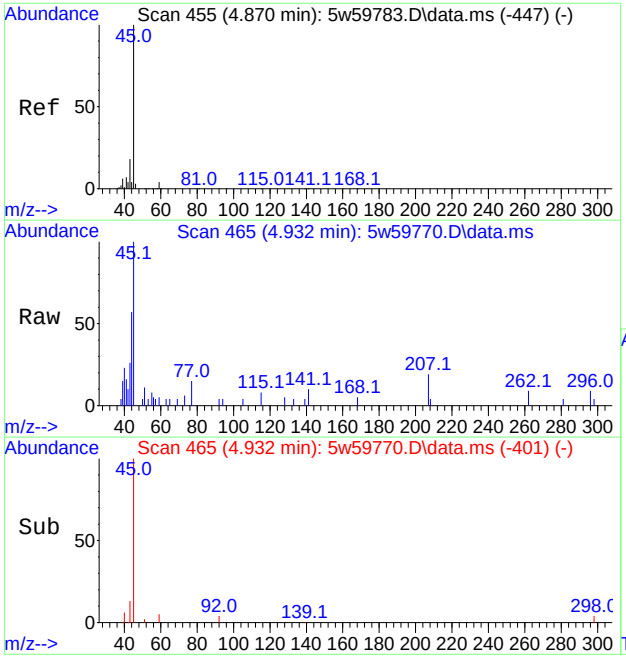


#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:101 Resp: 13248

Ion	Ratio	Lower	Upper
101	100		
103	69.6	35.0	95.0
105	25.5	0.0	40.7

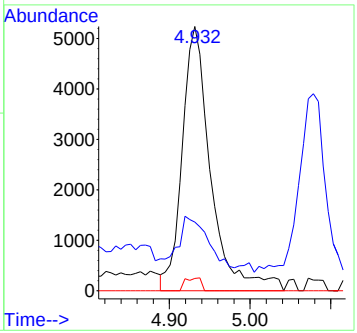


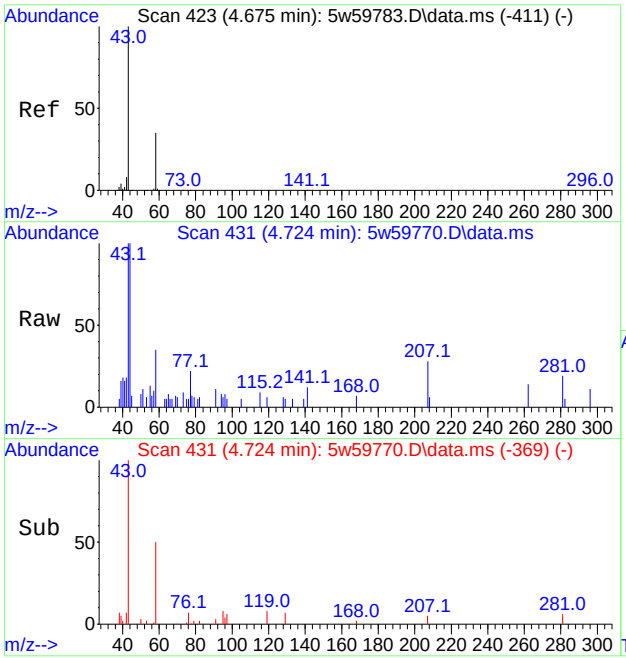


#22
ISOPROPYL ALCOHOL
Concen: 0.15 PPBV
RT: 4.932 min Scan# 465
Delta R.T. 0.062 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 12850

Ion	Ratio	Lower	Upper
45	100		
43	26.0	0.0	47.8
59	4.7	0.0	34.1

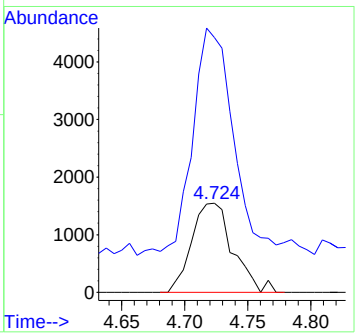


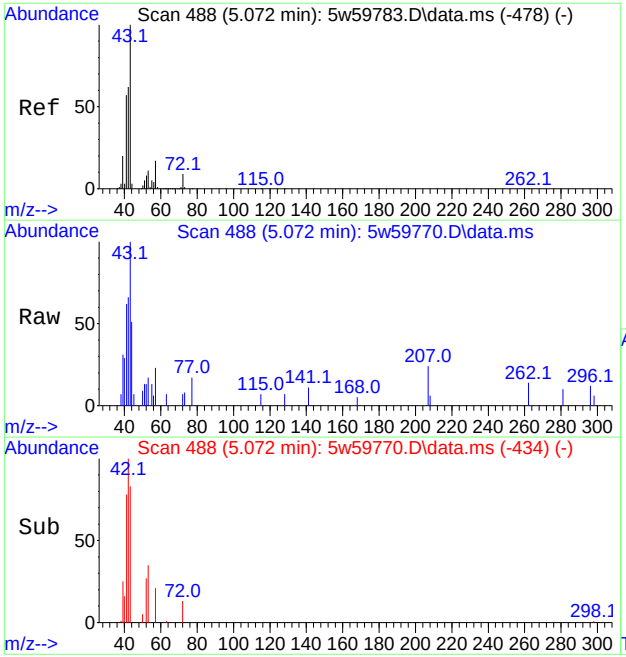


#23
ACETONE
Concen: 0.18 PPBV
RT: 4.724 min Scan# 431
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 3503

Ion	Ratio	Lower	Upper
58	100		
43	258.5	252.3	312.3

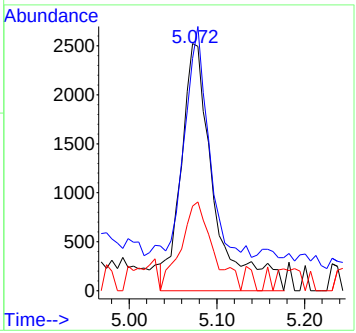


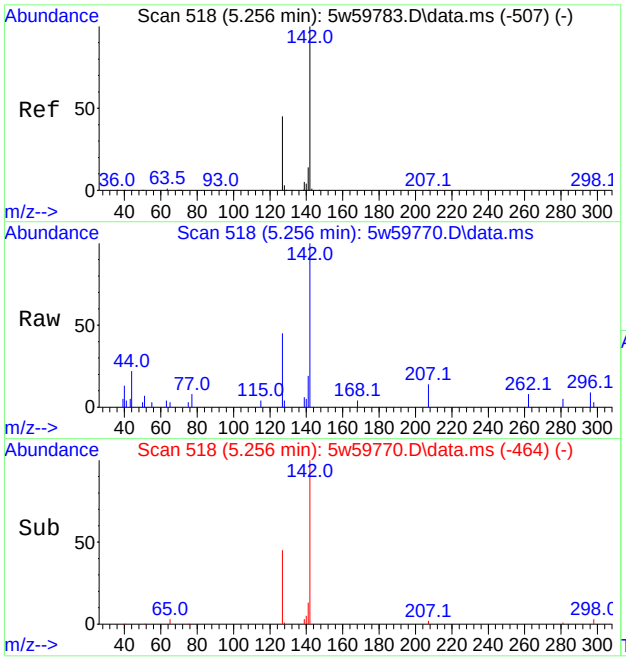


#24
PENTANE
Concen: 0.15 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 42 Resp: 6510

Ion	Ratio	Lower	Upper
42	100		
41	160.1	62.3	122.3#
57	35.3	0.0	57.7

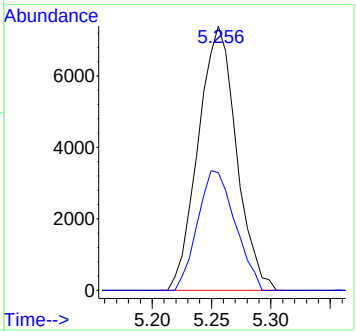


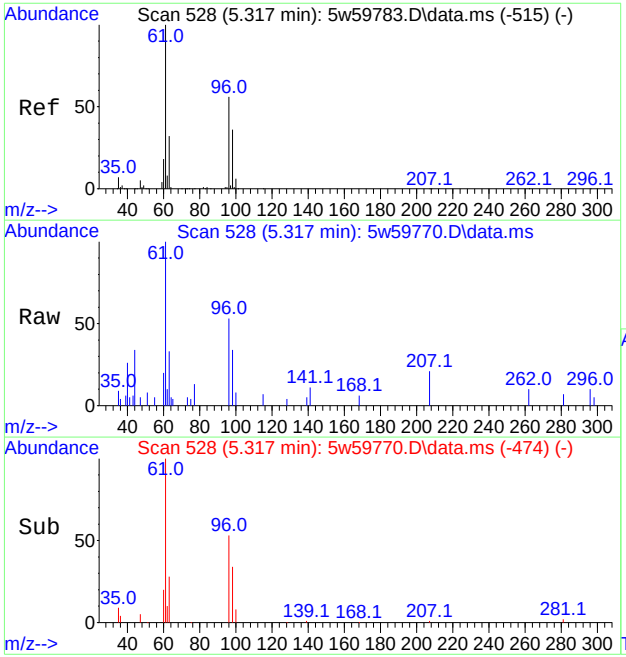


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:142 Resp: 16474

Ion	Ratio	Lower	Upper
142	100		
127	44.7	16.0	76.0

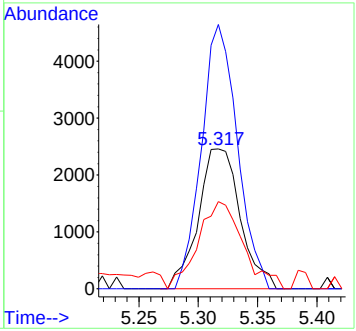


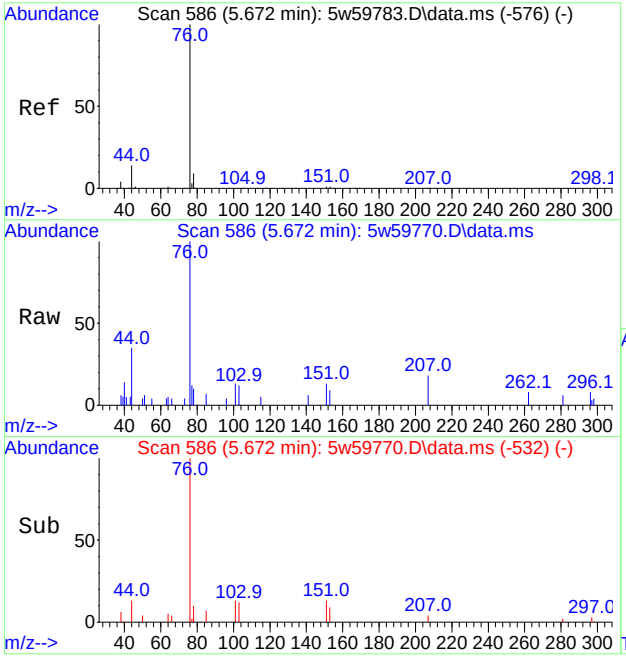


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6043

Ion	Ratio	Lower	Upper
96	100		
61	161.4	148.5	208.5
63	66.7	27.4	87.4

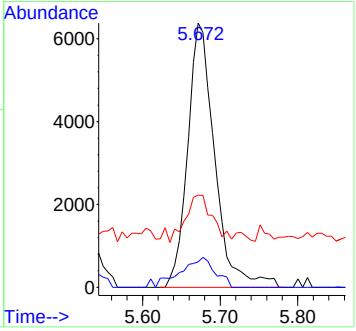


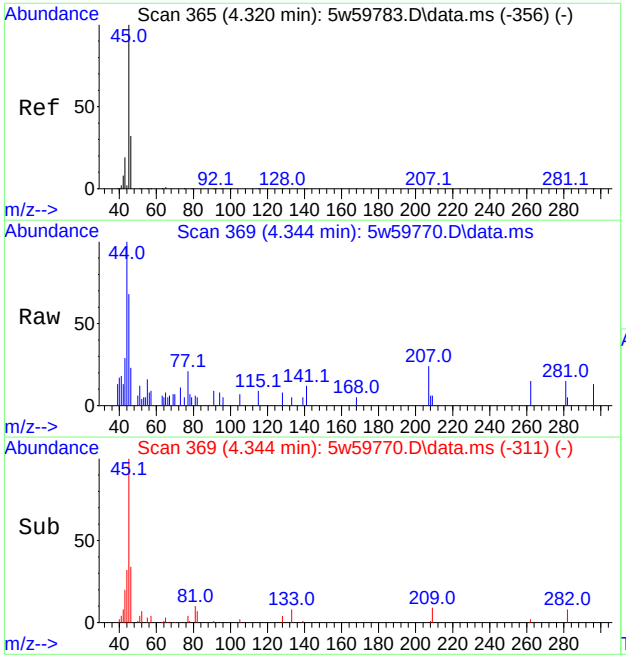


#27
CARBON DISULFIDE
Concen: 0.12 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 15443

Ion	Ratio	Lower	Upper
76	100		
78	14.8	0.0	41.5
44	19.6	0.0	44.6

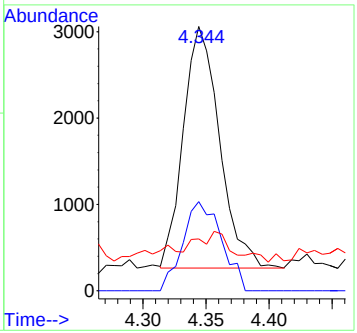


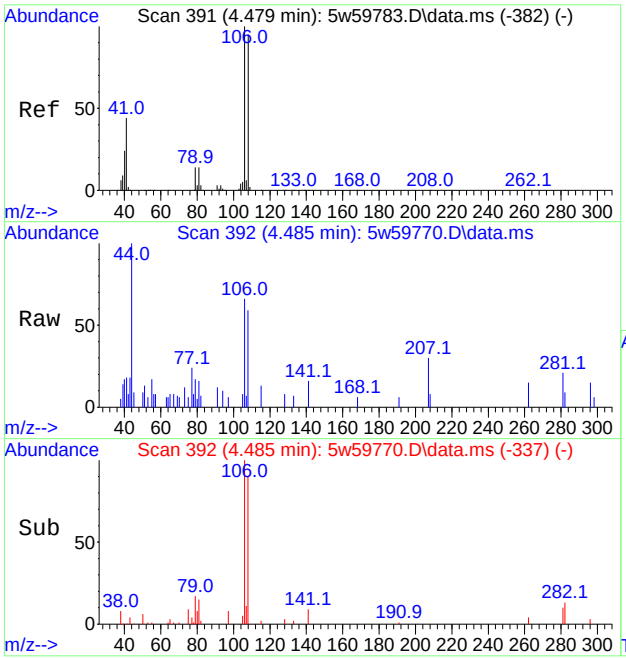


#28
ETHANOL
Concen: 0.26 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 5592

Ion	Ratio	Lower	Upper
45	100		
46	39.3	2.0	62.0
42	12.5	0.0	38.5

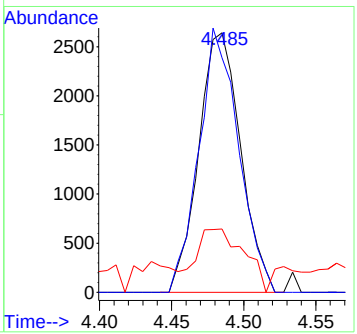


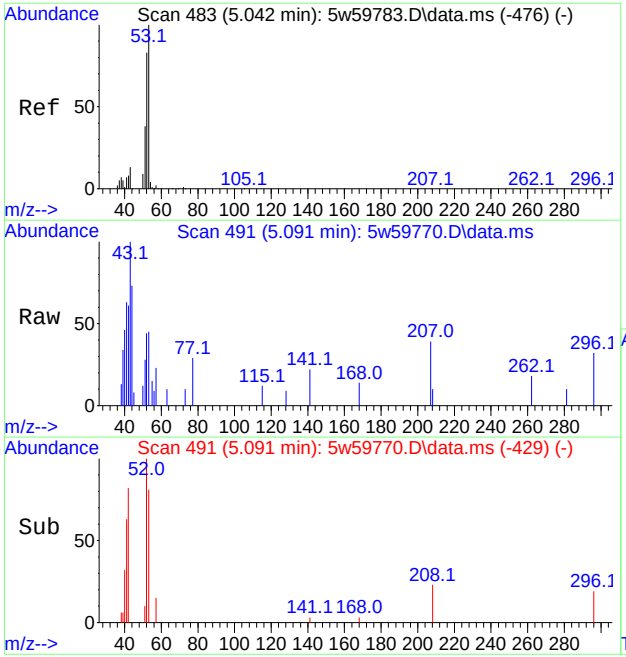


#29
BROMOETHENE
Concen: 0.11 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 5356

Ion	Ratio	Lower	Upper
106	100		
108	96.6	65.6	125.6
81	28.1	0.0	43.9

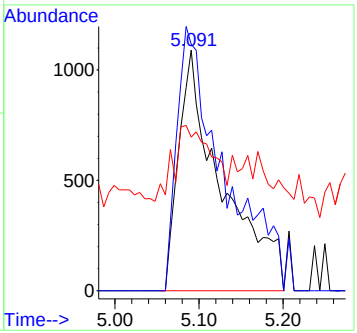


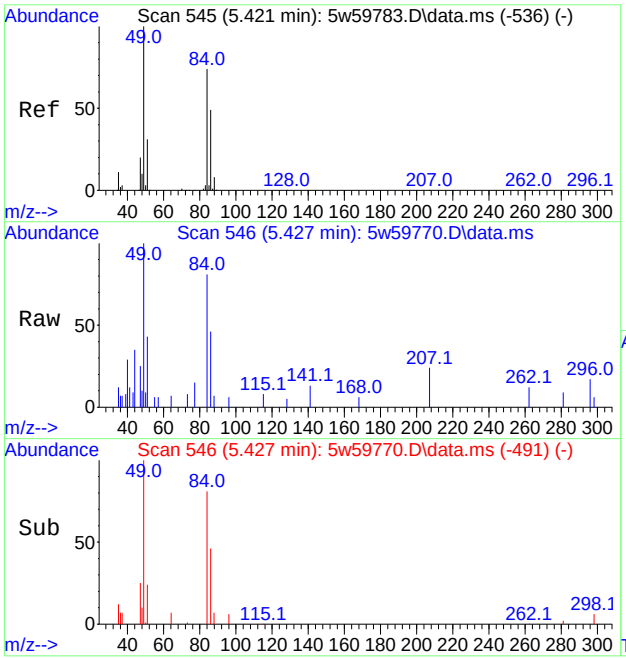


#30
ACRYLONITRILE
Concen: 0.12 PPBV
RT: 5.091 min Scan# 491
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 3869

Ion	Ratio	Lower	Upper
52	100		
53	121.0	85.8	159.4
51	65.0	32.3	60.1#

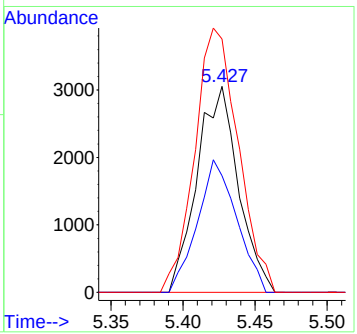


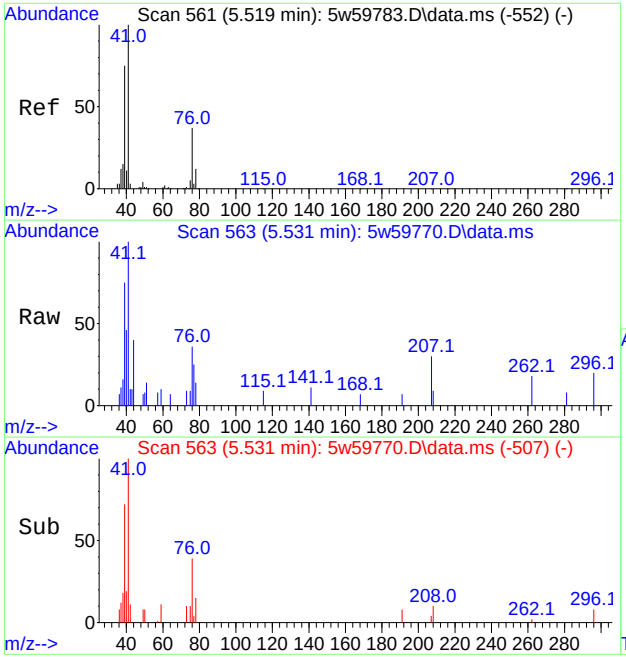


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 6090

Ion	Ratio	Lower	Upper
84	100		
86	61.0	35.2	95.2
49	135.4	105.3	165.3

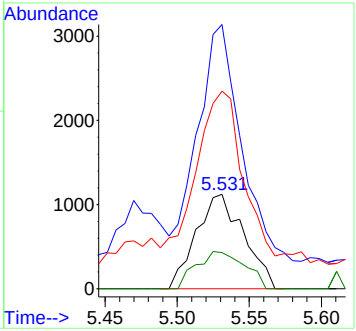


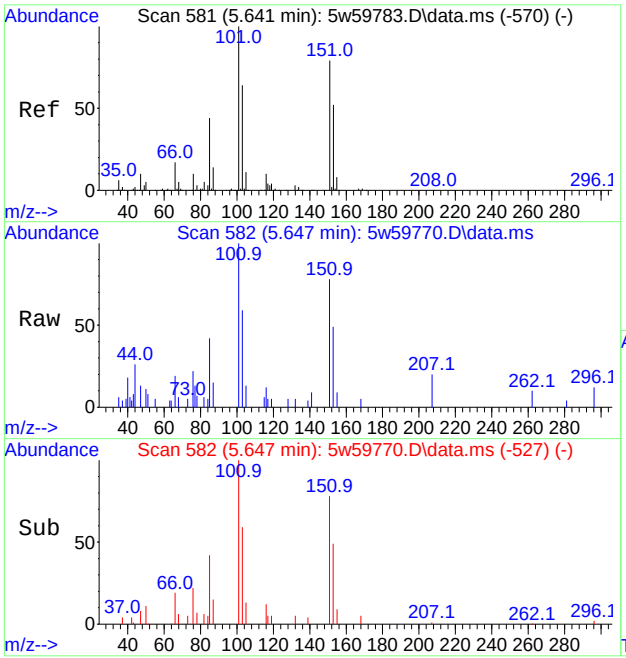


#32
3-CHLOROPROPENE
Concen: 0.11 PPBV
RT: 5.531 min Scan# 563
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 2581

Ion	Ratio	Lower	Upper
76	100		
41	416.2	240.8	300.8#
39	186.5	173.6	233.6
78	40.1	2.8	62.8

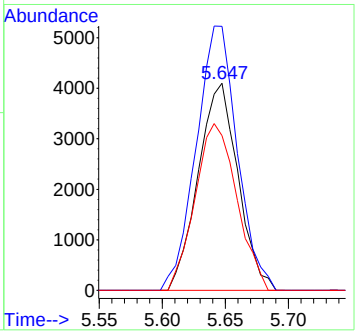


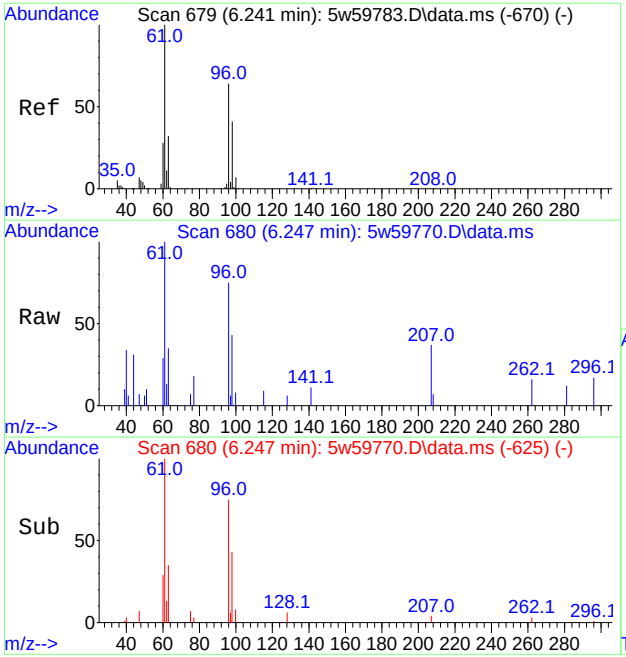


#33
FREON 113
Concen: 0.10 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:151 Resp: 8991

Ion	Ratio	Lower	Upper
151	100		
101	131.6	97.5	157.5
103	84.2	52.5	112.5

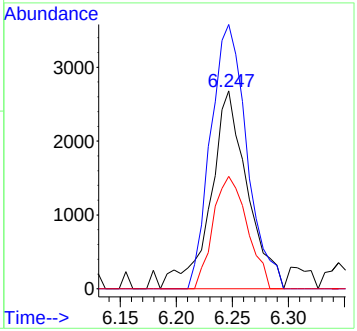


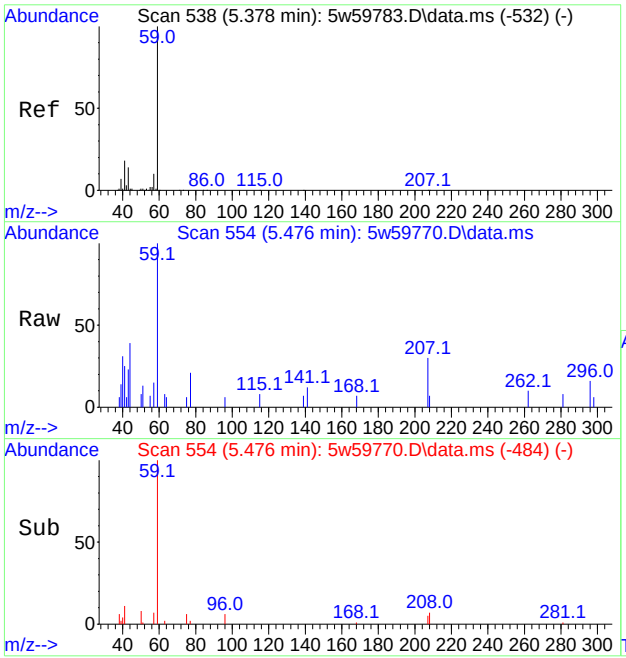


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6117

Ion	Ratio	Lower	Upper
96	100		
61	131.9	126.4	186.4
98	52.8	34.1	94.1

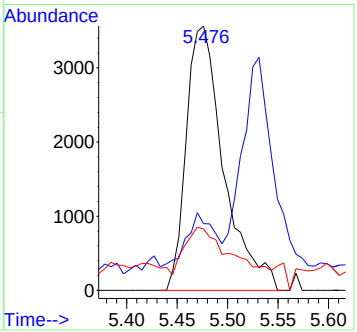


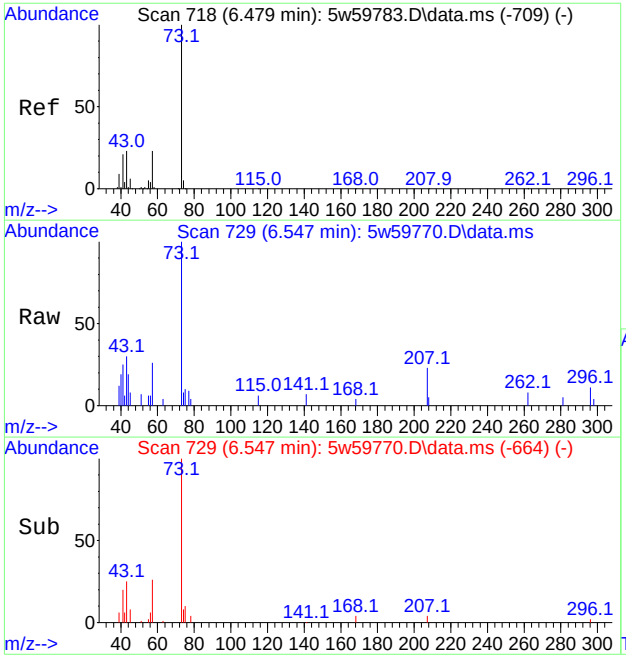


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.09 PPBV
RT: 5.476 min Scan# 554
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 9217

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	36.4	0.0	44.1

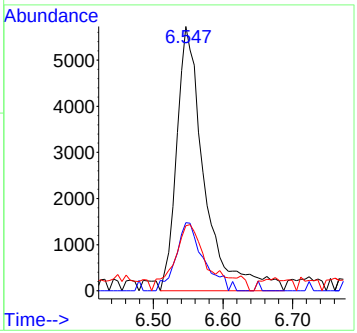


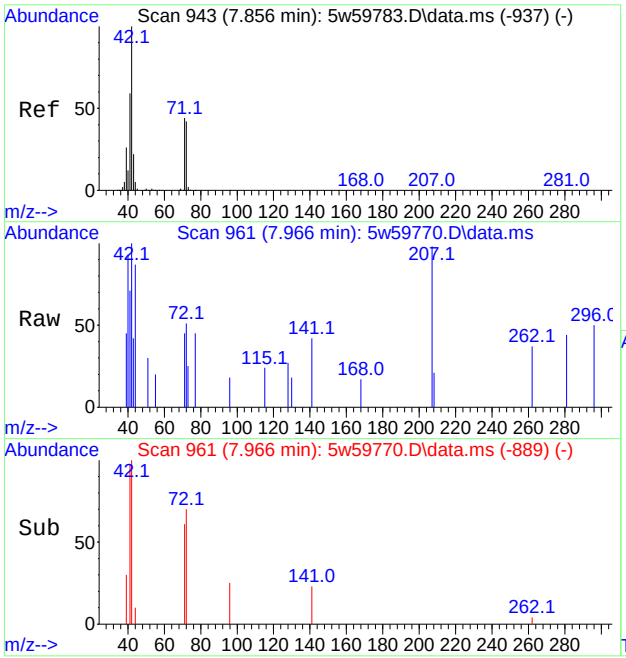


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.12 PPBV
RT: 6.547 min Scan# 729
Delta R.T. 0.068 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 73 Resp: 15796

Ion	Ratio	Lower	Upper
73	100		
57	25.8	0.0	53.1
41	30.7	0.0	50.6

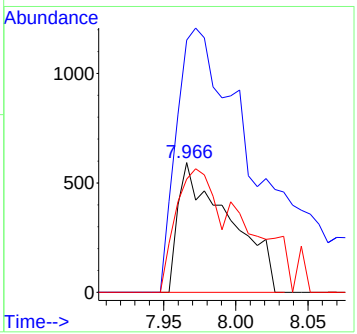


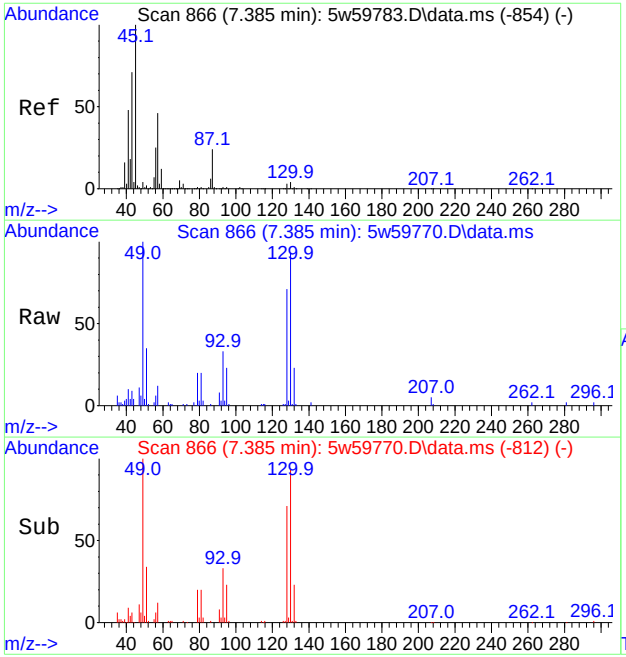


#37
TETRAHYDROFURAN
Concen: 0.08 PPBV
RT: 7.966 min Scan# 961
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 1469

Ion	Ratio	Lower	Upper
72	100		
42	342.0	202.4	262.4#
71	131.0	71.1	131.1

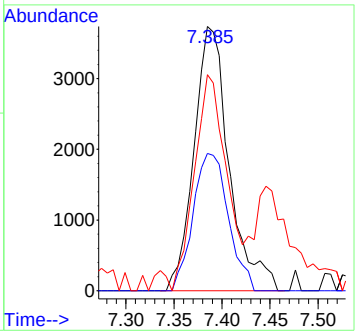


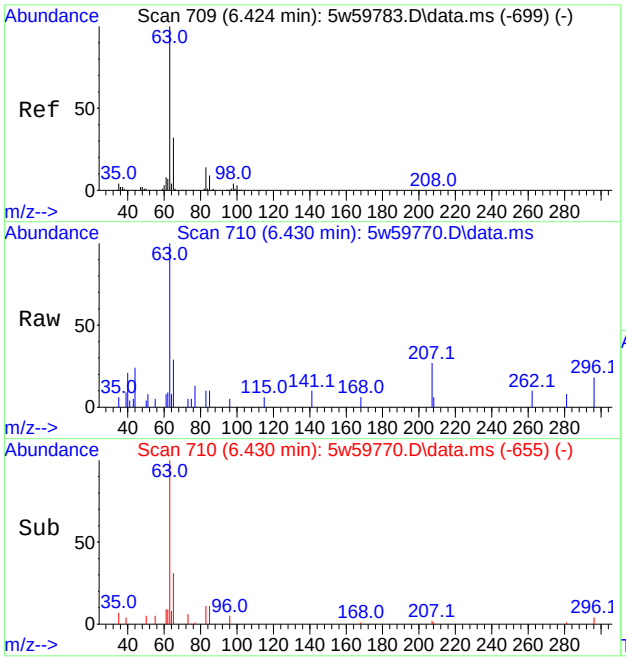


#38
HEXANE
Concen: 0.13 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9533

Ion	Ratio	Lower	Upper
57	100		
56	52.0	25.9	85.9
41	80.5	74.7	134.7

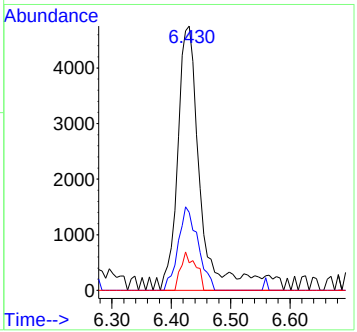


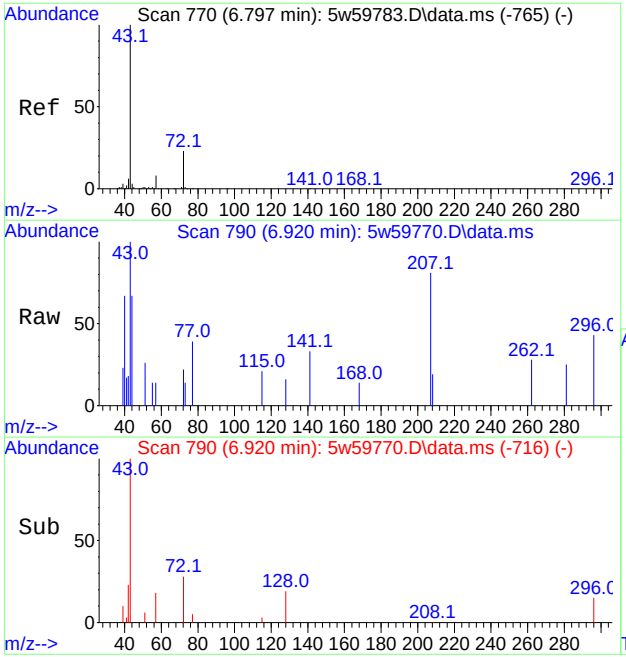


#40
1,1-DICHLOROETHANE
Concen: 0.14 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 12904

Ion	Ratio	Lower	Upper
63	100		
65	27.4	1.7	61.7
83	9.4	0.0	43.5

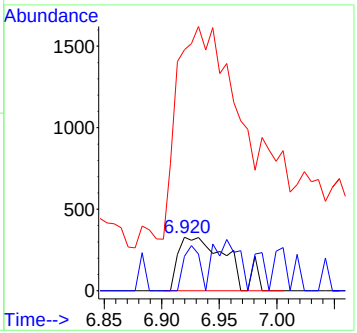


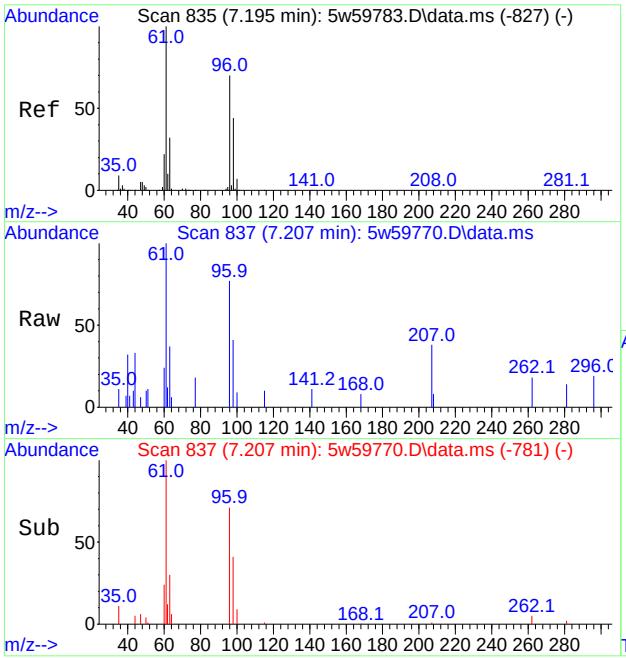


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV m
RT: 6.920 min Scan# 790
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 956

Ion	Ratio	Lower	Upper
72	100		
57	64.6	4.8	64.8
43	450.9	415.9	475.9

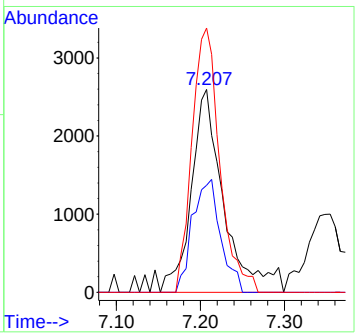


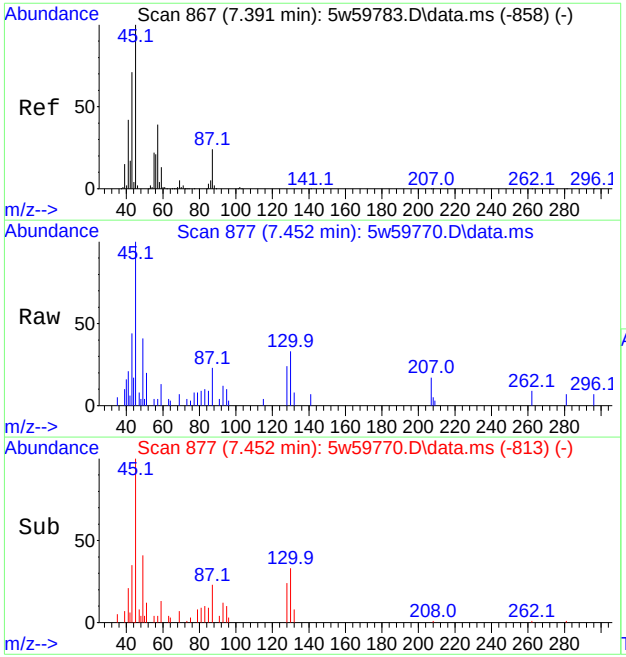


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.13 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6979

Ion	Ratio	Lower	Upper
96	100		
98	48.0	34.0	94.0
61	111.6	111.5	171.5

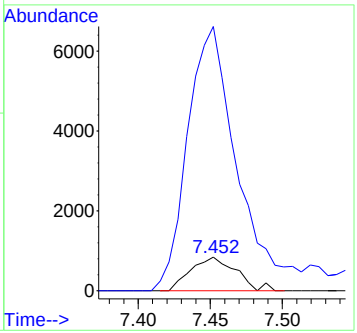


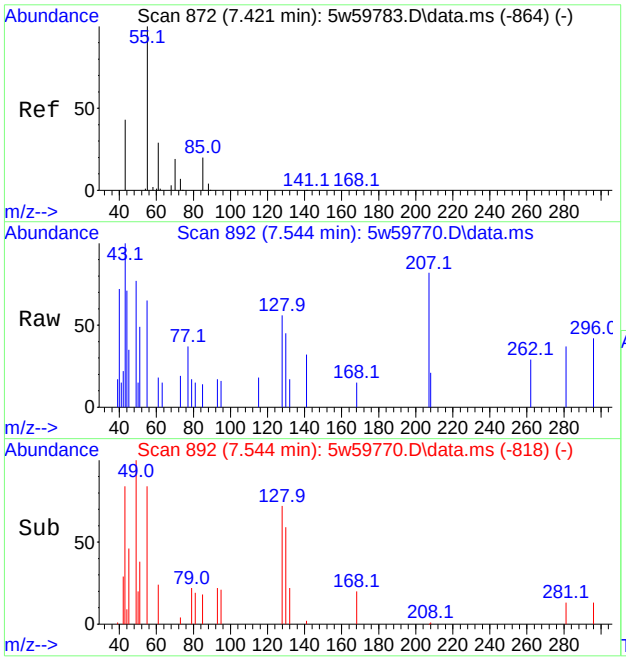


#43
DIISOPROPYL ETHER
Concen: 0.09 PPBV
RT: 7.452 min Scan# 877
Delta R.T. 0.061 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 1846

Ion	Ratio	Lower	Upper
59	100		
45	973.3	720.9	780.9#

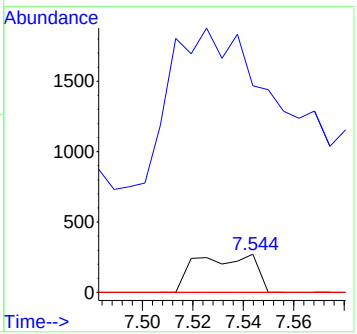


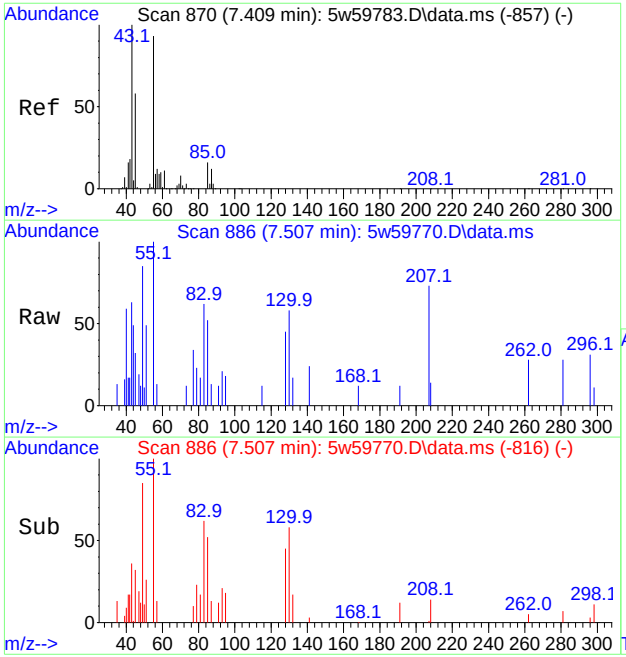


#44
ETHYL ACETATE
Concen: 0.03 PPBV m
RT: 7.544 min Scan# 892
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 61 Resp: 434

Ion	Ratio	Lower	Upper
61	100		
43	829.0	560.5	620.5#
88	0.0	4.5	64.5#

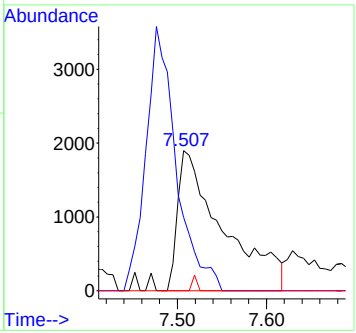


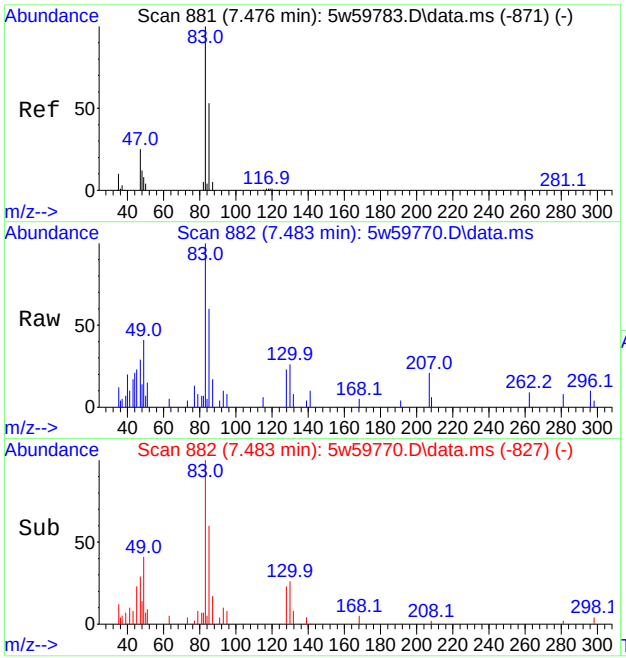


#45
METHYL ACRYLATE
Concen: 0.08 PPBV m
RT: 7.507 min Scan# 886
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 55 Resp: 6719

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

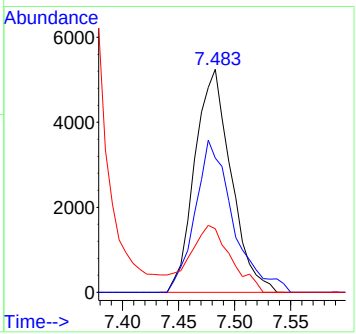


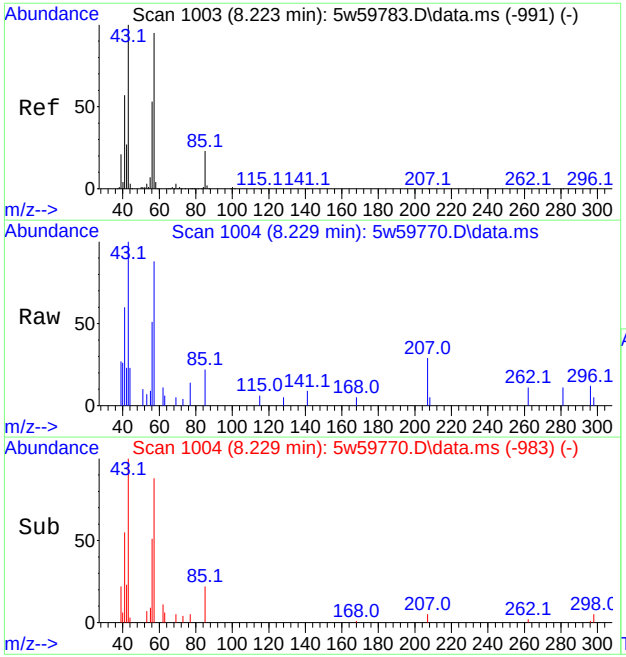


#46
CHLOROFORM
Concen: 0.11 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 11842

Ion	Ratio	Lower	Upper
83	100		
85	71.3	35.6	95.6
47	32.6	0.0	55.2

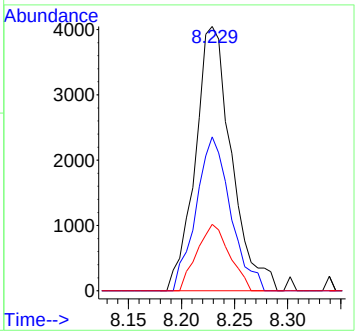


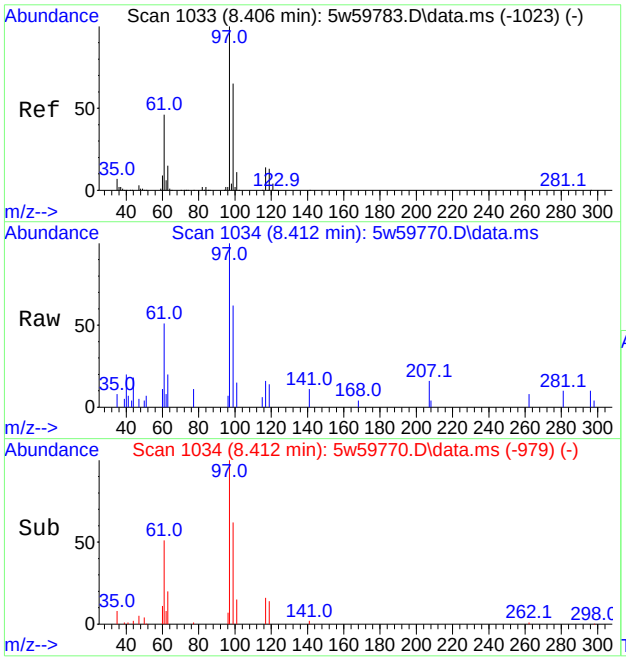


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9616

Ion	Ratio	Lower	Upper
57	100		
56	55.5	26.5	86.5
85	22.6	0.0	53.8

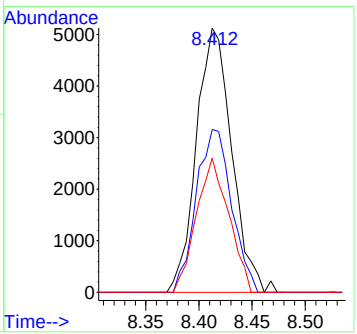


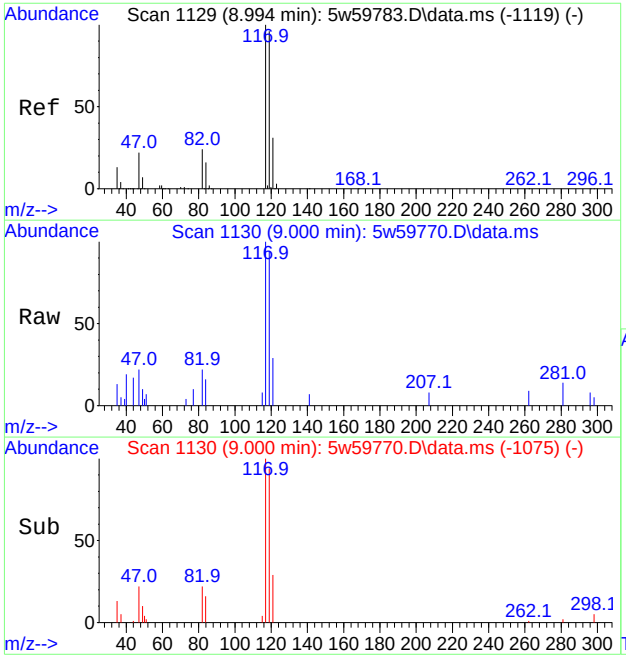


#48
1,1,1-TRICHLOROETHANE
Concen: 0.11 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 97 Resp: 11905

Ion	Ratio	Lower	Upper
97	100		
99	61.5	34.8	94.8
61	46.5	15.8	75.8

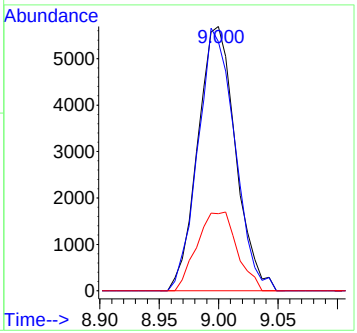


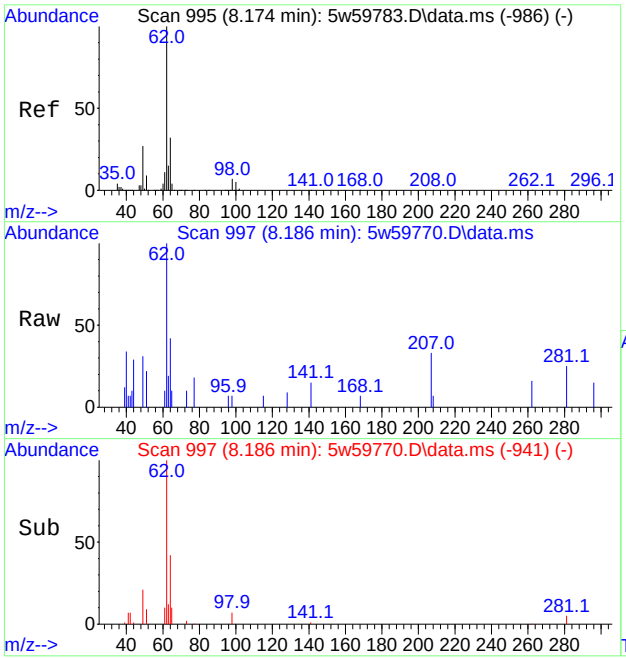


#49
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 12586

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.4	1.3	61.3

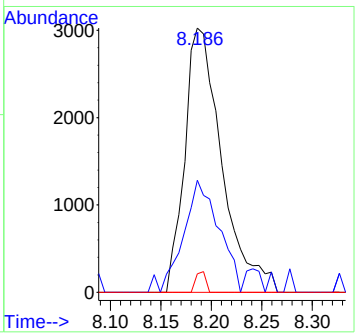


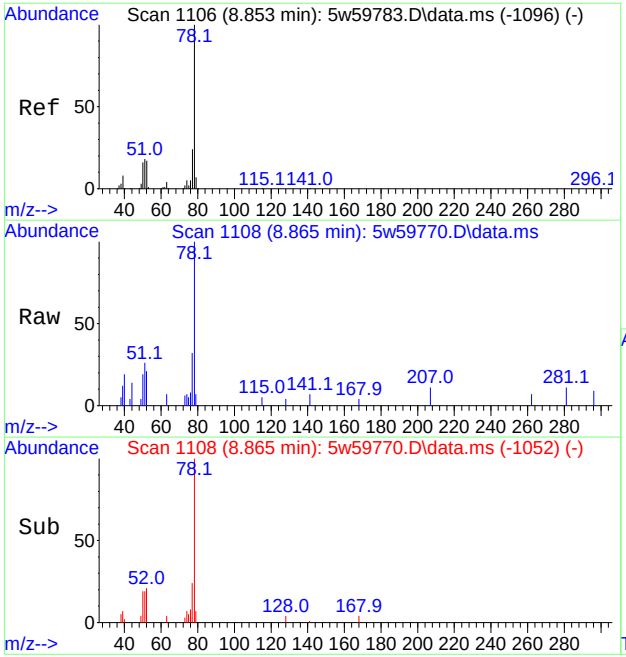


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 7761

Ion	Ratio	Lower	Upper
62	100		
64	40.9	2.3	62.3
98	2.1	0.0	36.9

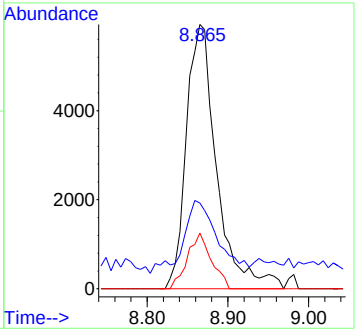


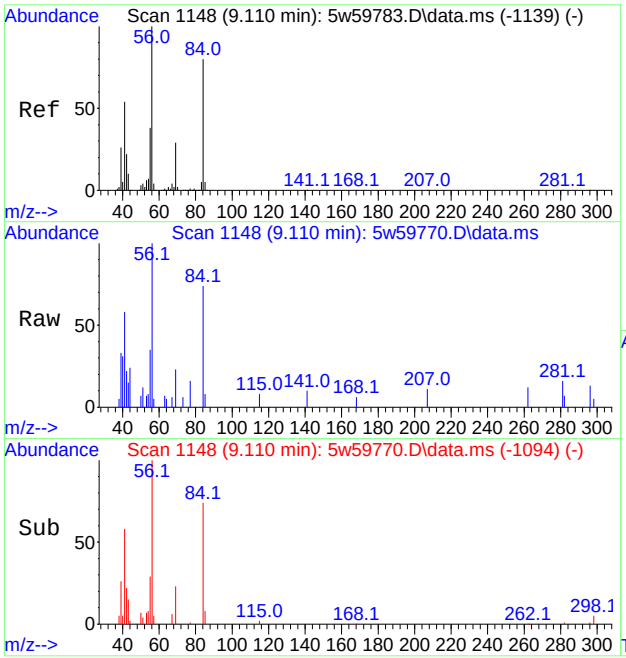


#52
BENZENE
Concen: 0.11 PPBV
RT: 8.865 min Scan# 1108
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 78 Resp: 15430

Ion	Ratio	Lower	Upper
78	100		
77	31.0	0.0	53.8
52	16.7	0.0	46.9

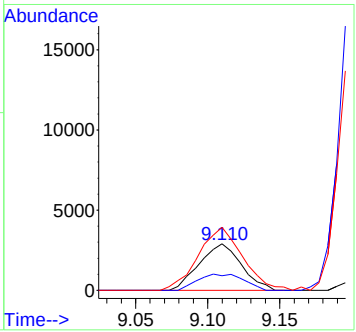


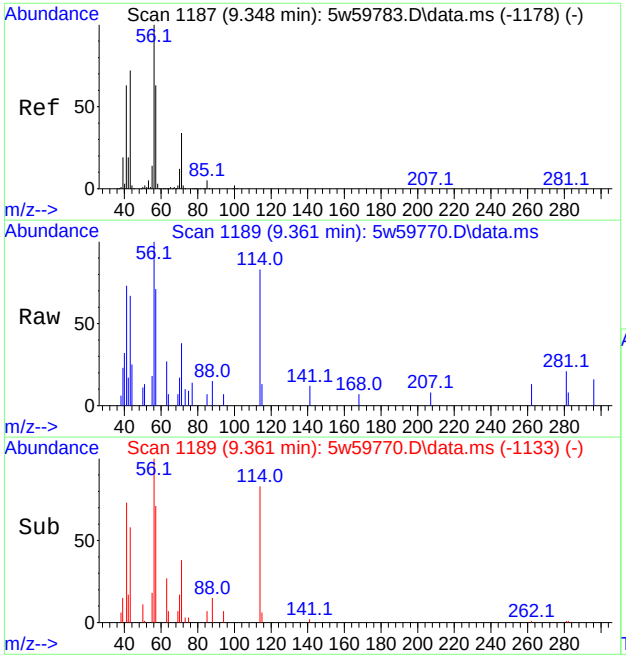


#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 5905

Ion	Ratio	Lower	Upper
84	100		
69	38.2	6.9	66.9
56	142.3	98.2	158.2

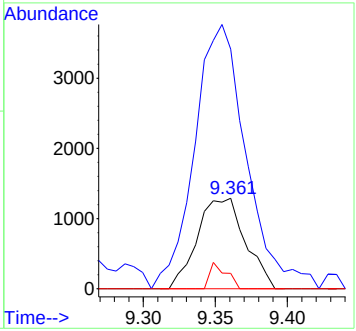


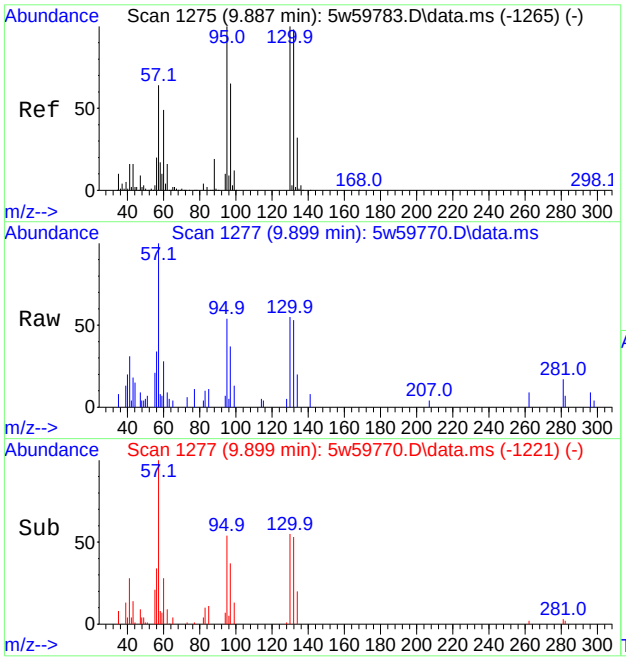


#54
2,3-DIMETHYLPENTANE
Concen: 0.10 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 71 Resp: 2989

Ion	Ratio	Lower	Upper
71	100		
56	315.8	264.6	324.6
85	10.1	0.0	45.3

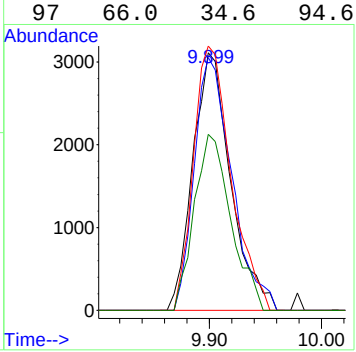


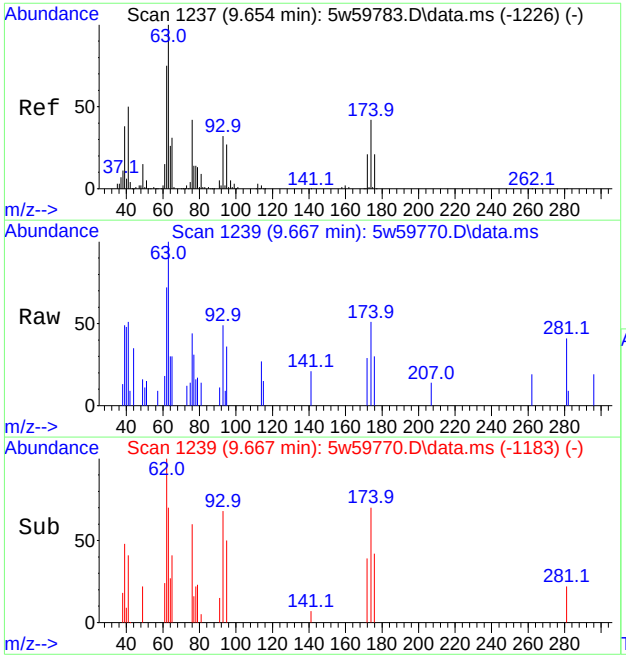


#55
TRICHLOROETHYLENE
Concen: 0.10 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 95 Resp: 7303

Ion	Ratio	Lower	Upper
95	100		
132	97.0	69.0	129.0
130	101.9	70.6	130.6
97	66.0	34.6	94.6

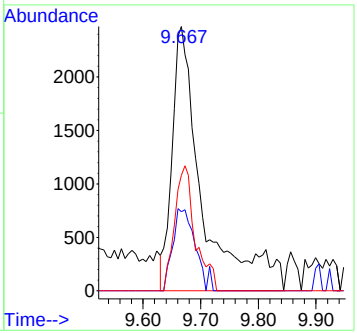


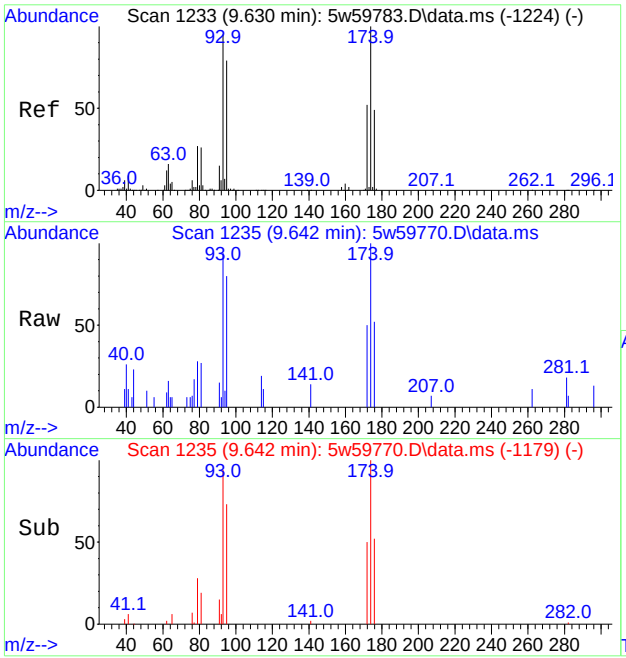


#56
1,2-DICHLOROPROPANE
Concen: 0.15 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 9099

Ion	Ratio	Lower	Upper
63	100		
65	22.9	0.5	60.5
76	31.9	11.5	71.5

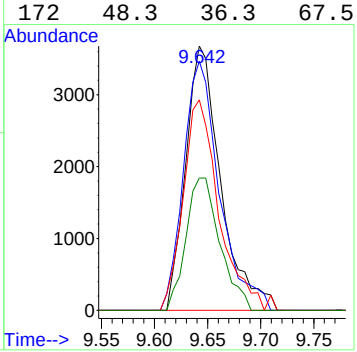


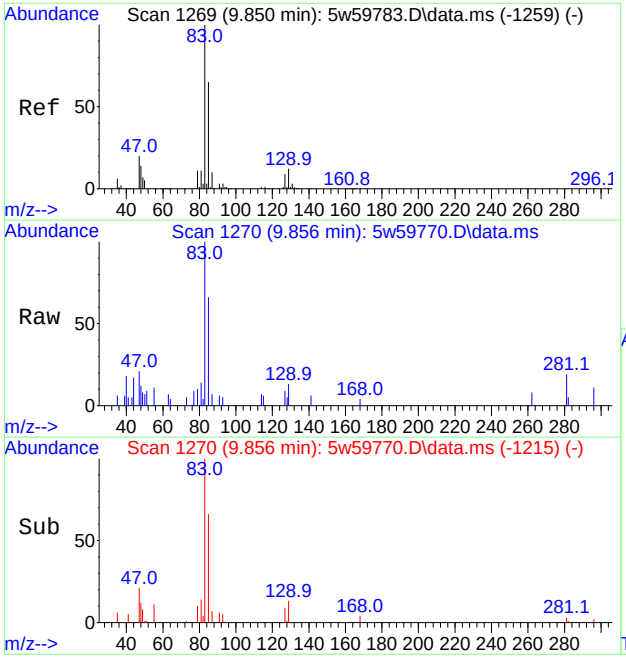


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:174 Resp: 8479

Ion	Ratio	Lower	Upper
174	100		
93	96.7	65.0	120.6
95	81.4	54.5	101.1
172	48.3	36.3	67.5

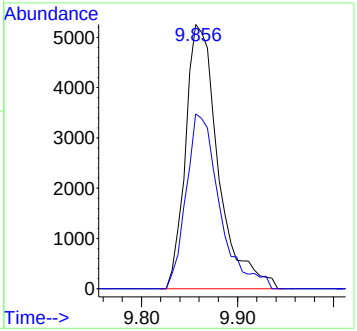


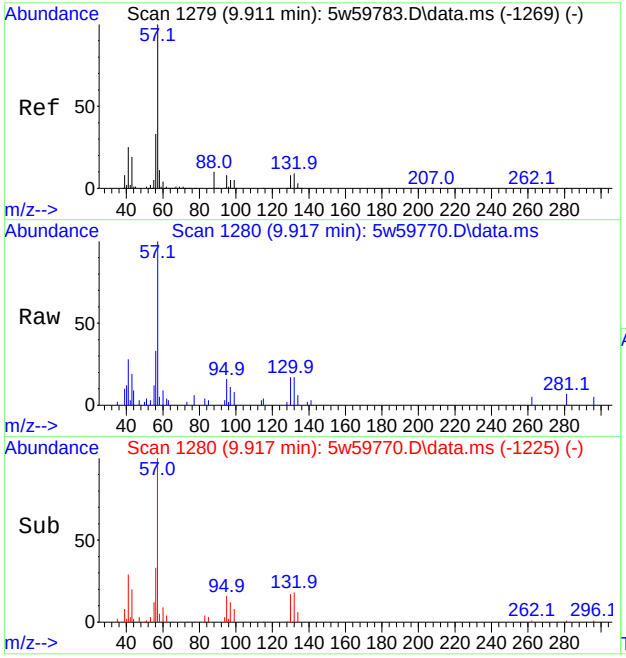


#59
BROMODICHLOROMETHANE
Concen: 0.10 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 12436

Ion	Ratio	Lower	Upper
83	100		
85	67.7	33.4	93.4

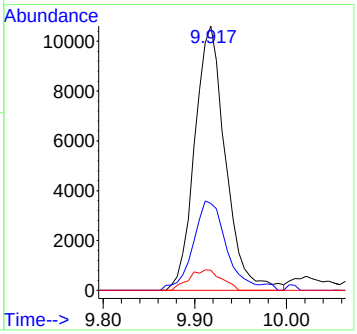


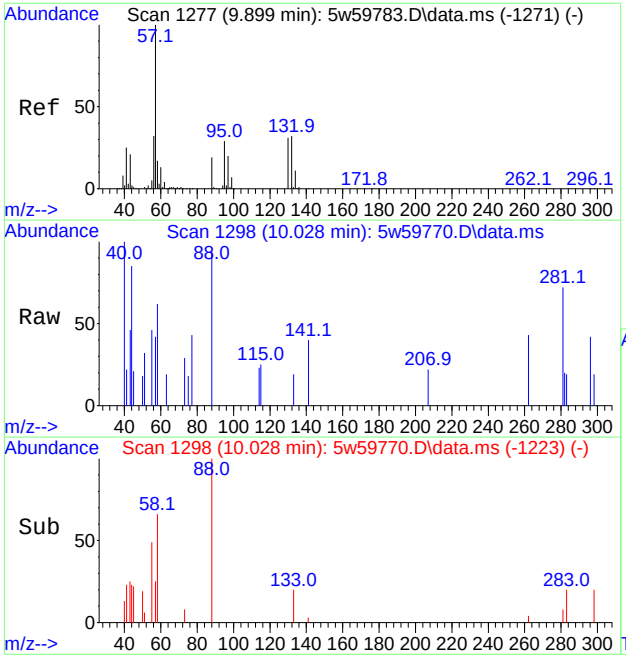


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 24769

Ion	Ratio	Lower	Upper
57	100		
56	37.1	2.5	62.5
99	8.2	0.0	37.3

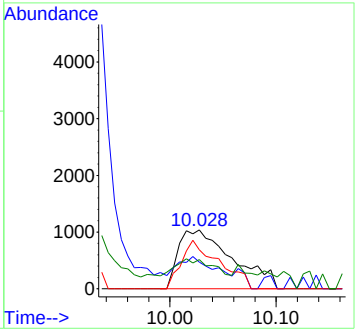


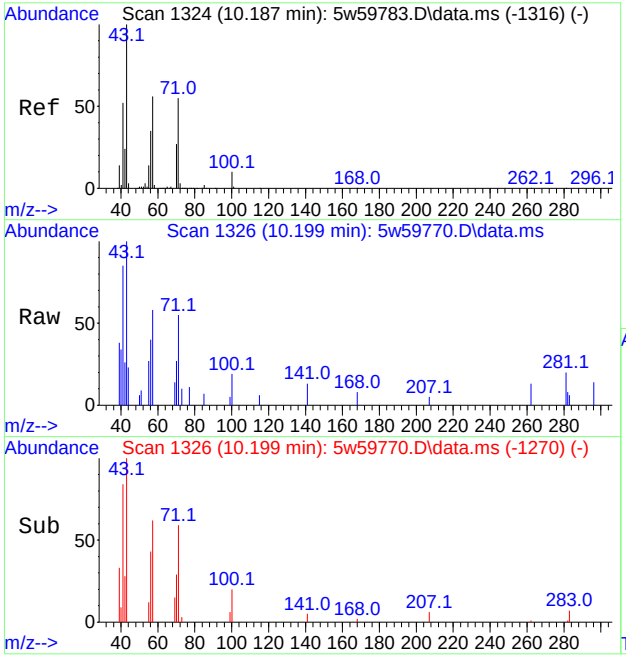


#61
1,4-DIOXANE
Concen: 0.11 PPBV
RT: 10.028 min Scan# 1298
Delta R.T. 0.129 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 88 Resp: 3670

Ion	Ratio	Lower	Upper
88	100		
57	45.3	494.2	554.2#
58	66.2	58.9	118.9
43	49.4	78.3	138.3#

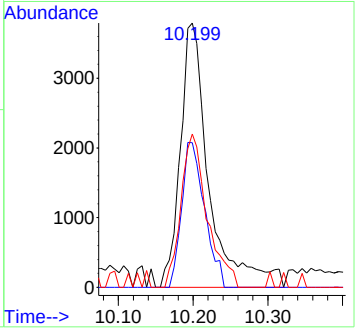


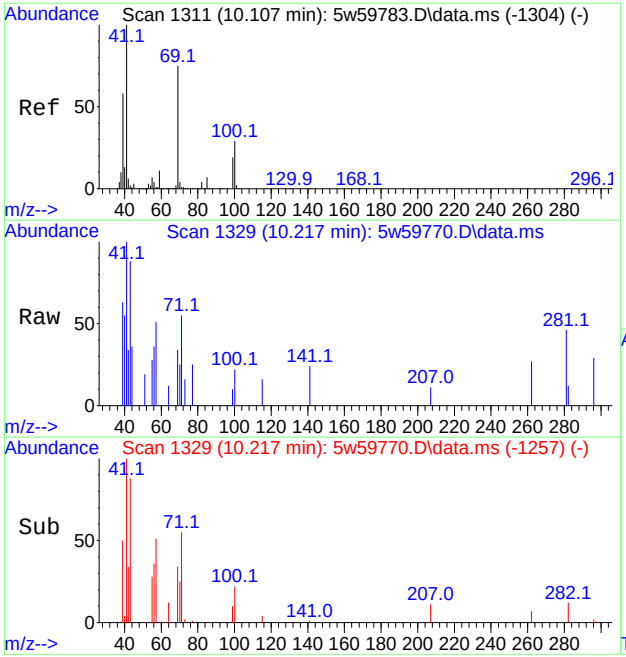


#62
HEPTANE
Concen: 0.13 PPBV
RT: 10.199 min Scan# 1326
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 10112

Ion	Ratio	Lower	Upper
43	100		
71	43.8	24.5	84.5
57	52.9	26.2	86.2

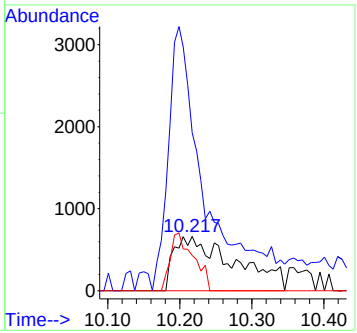


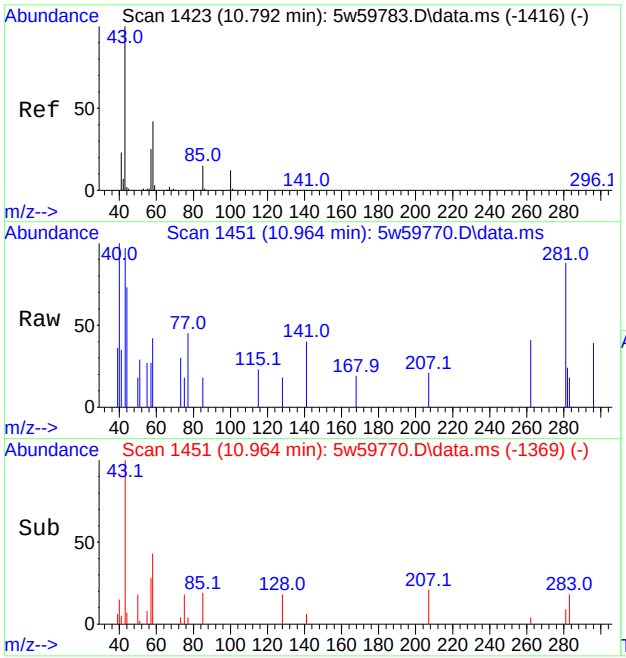


#63
METHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 10.217 min Scan# 1329
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 3857

Ion	Ratio	Lower	Upper
69	100		
41	336.7	95.3	155.3#
100	41.2	6.3	66.3

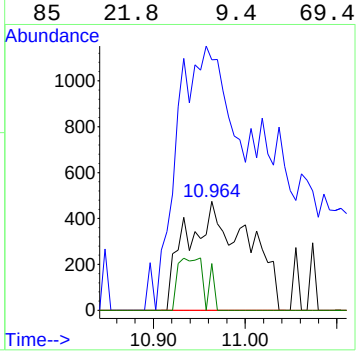


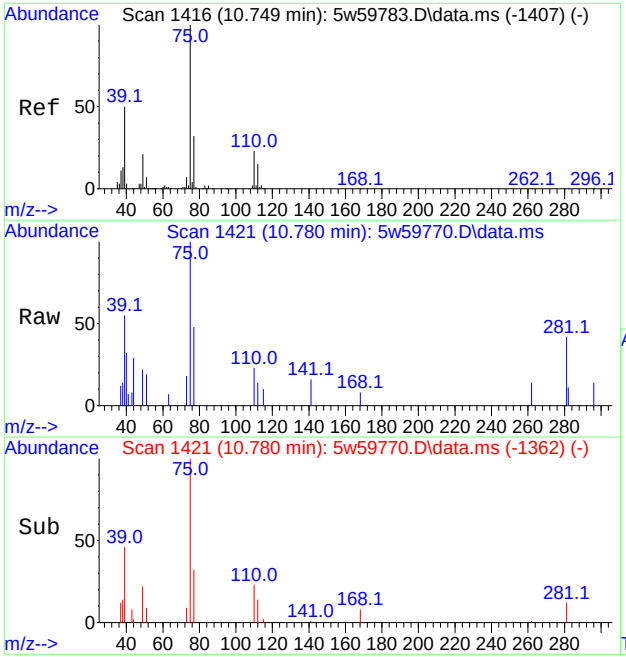


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 10.964 min Scan# 1451
Delta R.T. 0.172 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 2182

Ion	Ratio	Lower	Upper
58	100		
43	381.4	209.2	269.2#
100	0.0	0.0	58.8
85	21.8	9.4	69.4

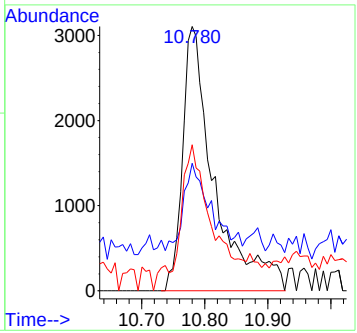


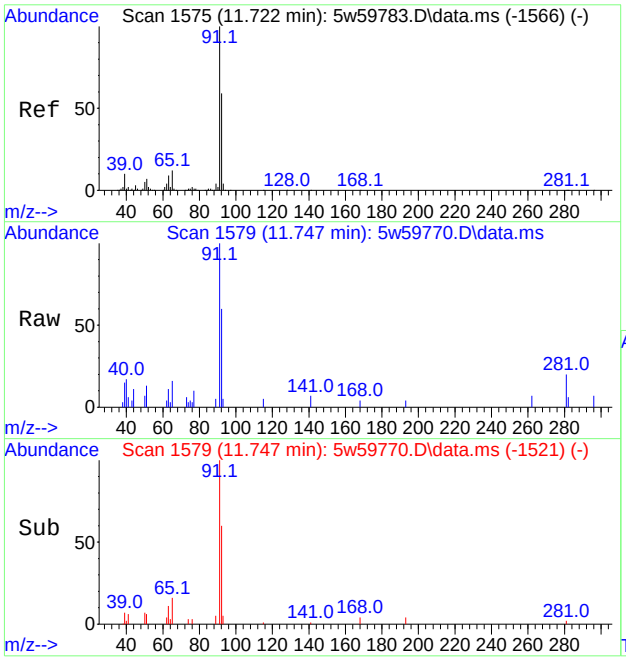


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 10.780 min Scan# 1421
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 10824

Ion	Ratio	Lower	Upper
75	100		
77	30.2	2.2	62.2
39	53.8	34.3	94.3

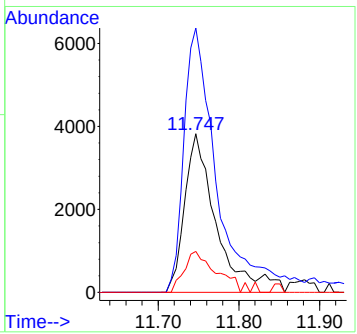


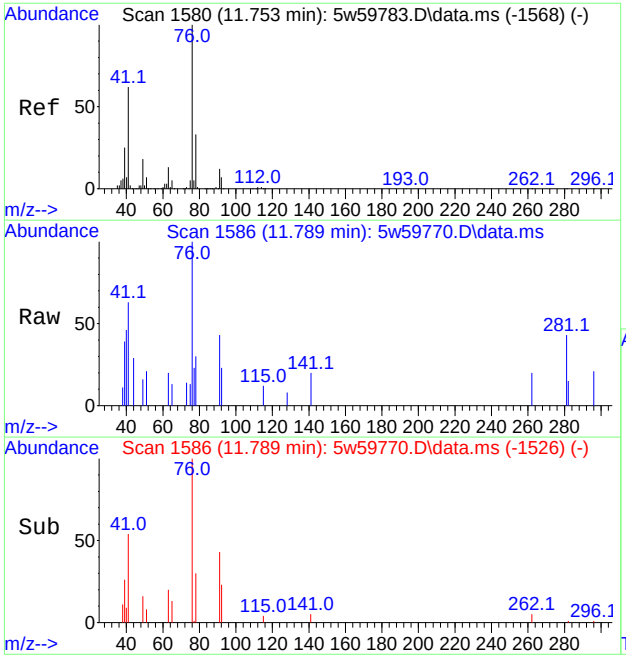


#66
TOLUENE
Concen: 0.10 PPBV
RT: 11.747 min Scan# 1579
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 92 Resp: 10446

Ion	Ratio	Lower	Upper
92	100		
91	184.4	140.1	200.1
65	27.5	0.0	53.1

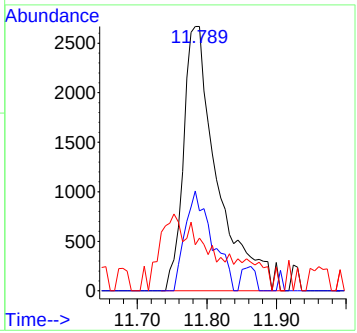


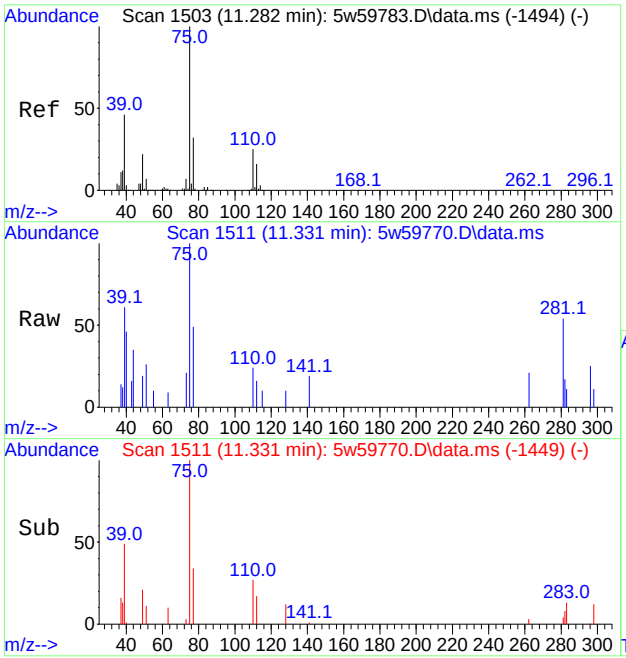


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 11.789 min Scan# 1586
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 9064

Ion	Ratio	Lower	Upper
76	100		
78	30.1	23.2	43.0
63	0.0	7.1	13.1#

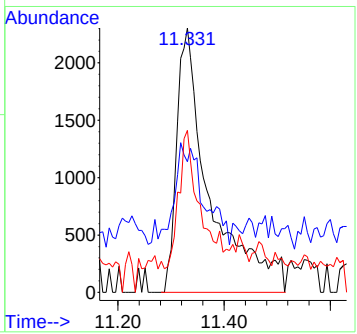


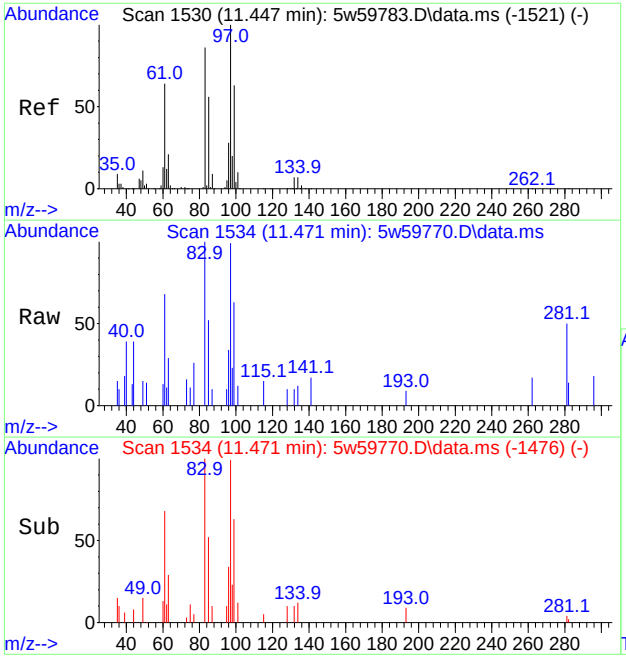


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 11.331 min Scan# 1511
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 9955

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	58.2	16.1	76.1

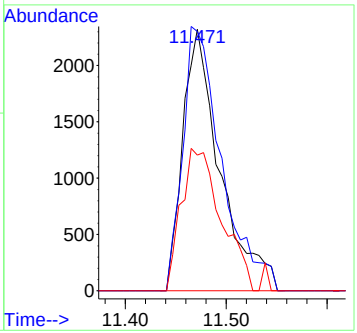


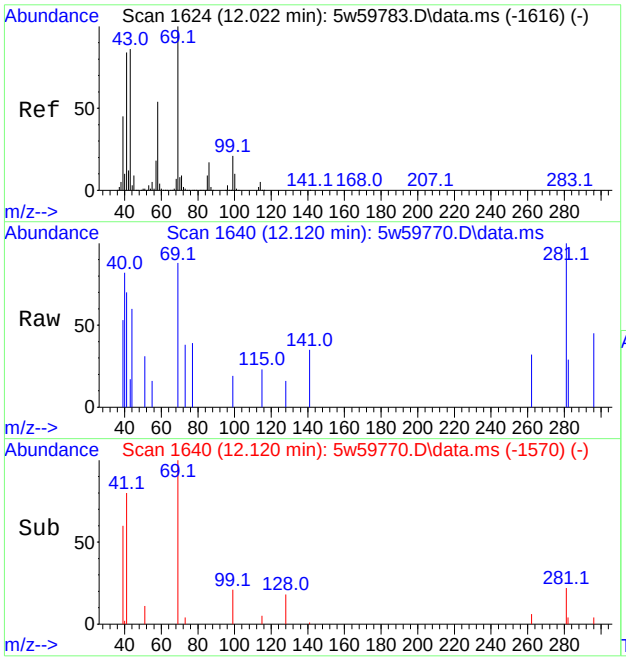


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 11.471 min Scan# 1534
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 5972

Ion	Ratio	Lower	Upper
83	100		
97	105.4	86.3	146.3
85	58.5	35.3	95.3

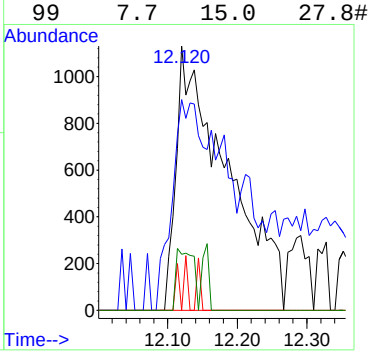


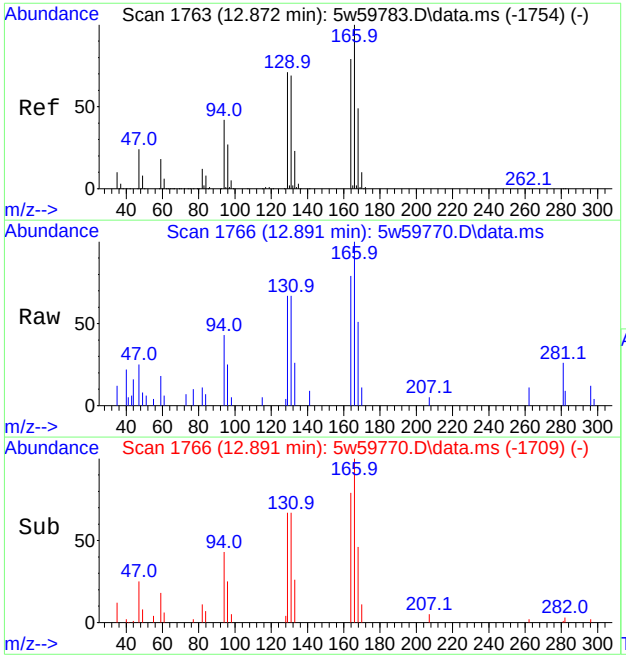


#72
ETHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 12.120 min Scan# 1640
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 5758

Ion	Ratio	Lower	Upper
69	100		
41	125.5	64.0	119.0#
86	0.0	12.0	22.4#
99	7.7	15.0	27.8#

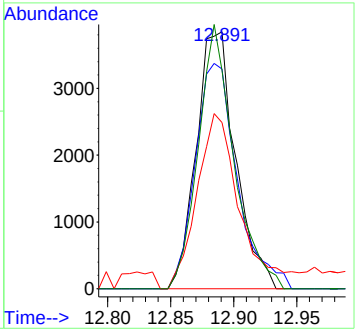


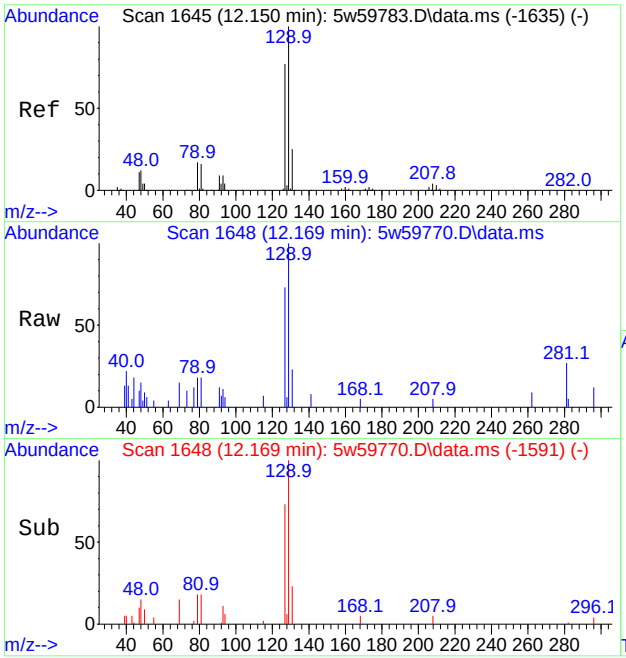


#73
TETRACHLOROETHYLENE
Concen: 0.12 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:164 Resp: 8344

Ion	Ratio	Lower	Upper
164	100		
129	93.5	59.7	119.7
168	81.8	32.2	92.2
131	93.3	57.8	117.8

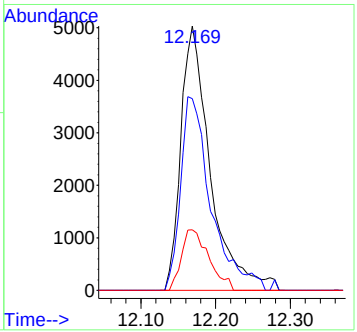


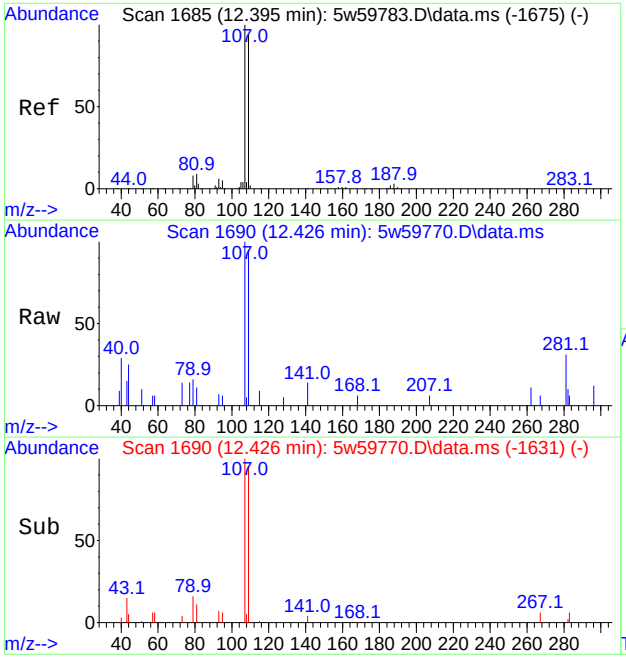


#74
DIBROMOCHLOROMETHANE
Concen: 0.11 PPBV
RT: 12.169 min Scan# 1648
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:129 Resp: 13809

Ion	Ratio	Lower	Upper
129	100		
127	75.3	47.1	107.1
131	21.3	0.0	54.5

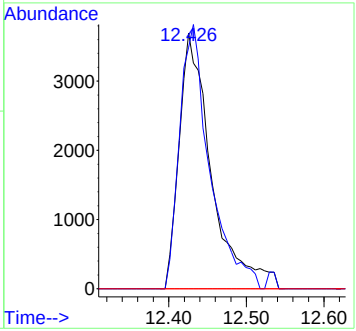


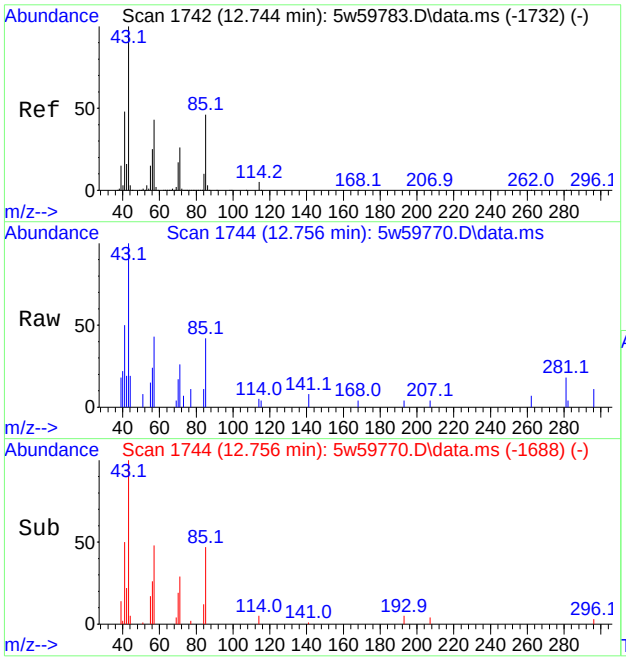


#75
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 12.426 min Scan# 1690
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:107 Resp: 10727

Ion	Ratio	Lower	Upper
107	100		
109	96.3	64.8	124.8
188	0.0	0.0	32.8

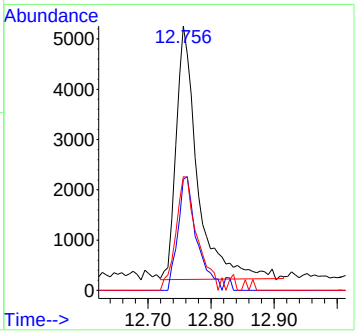


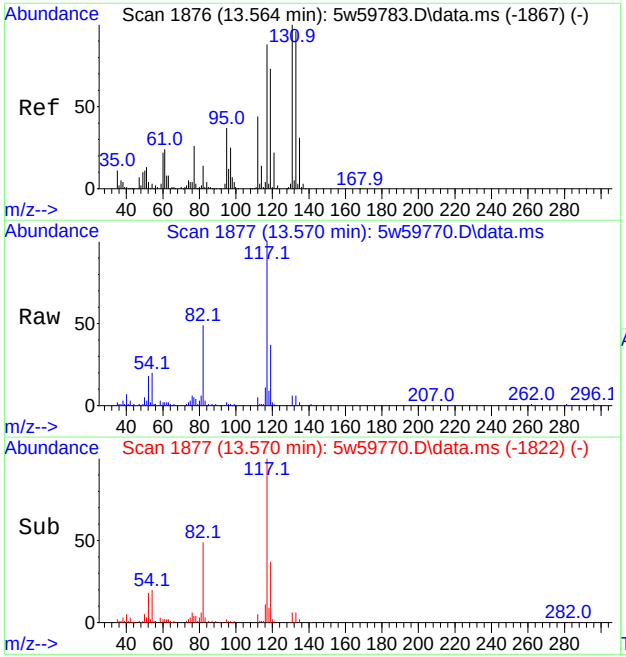


#76
OCTANE
Concen: 0.13 PPBV
RT: 12.756 min Scan# 1744
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 11856

Ion	Ratio	Lower	Upper
43	100		
85	39.5	14.6	74.6
57	45.0	13.7	73.7

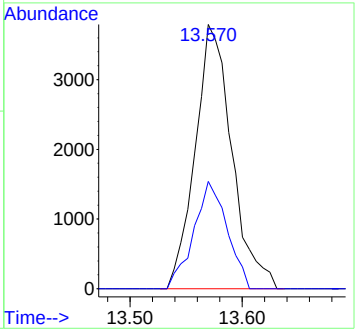


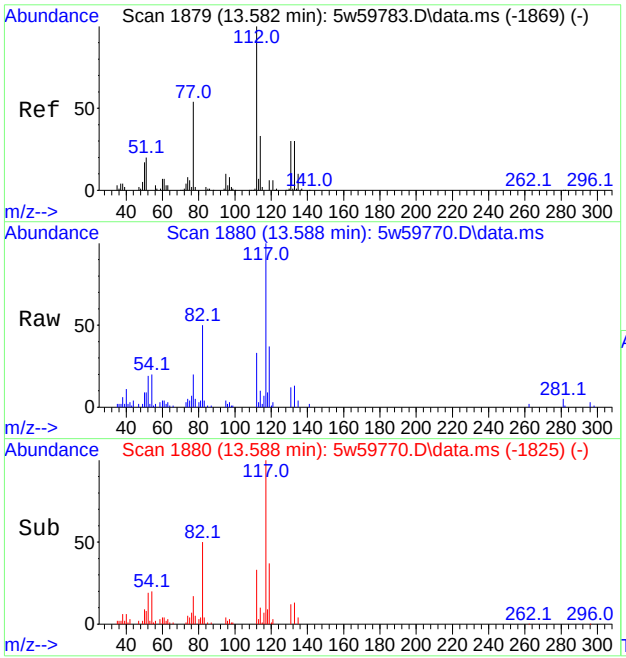


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.11 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:131 Resp: 8635

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

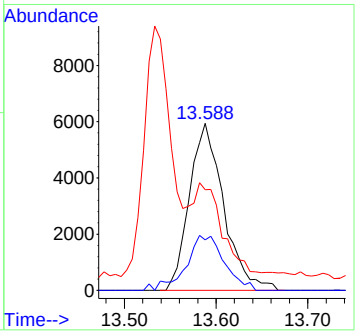


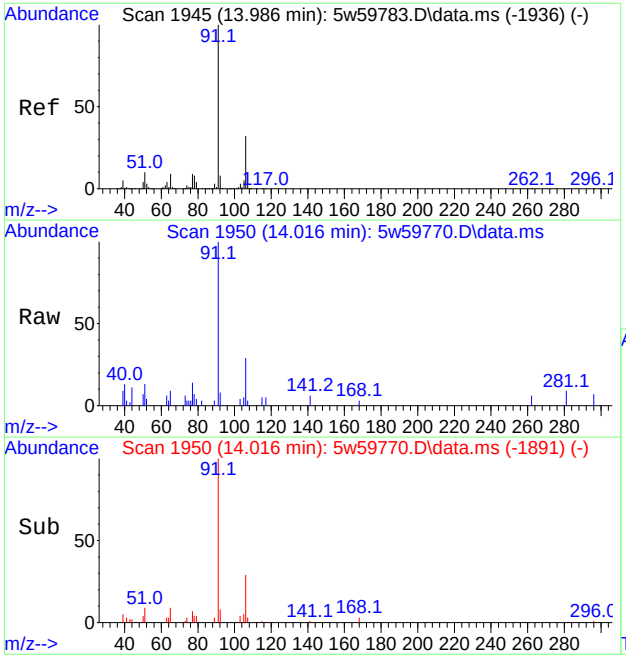


#78
CHLOROBENZENE
Concen: 0.12 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:112 Resp: 15456

Ion	Ratio	Lower	Upper
112	100		
114	36.4	2.6	62.6
77	0.0	25.4	85.4#

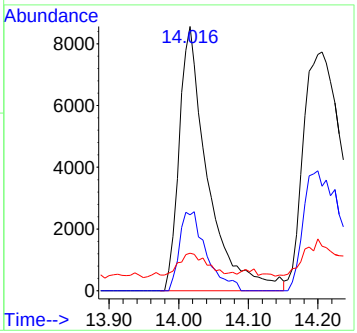


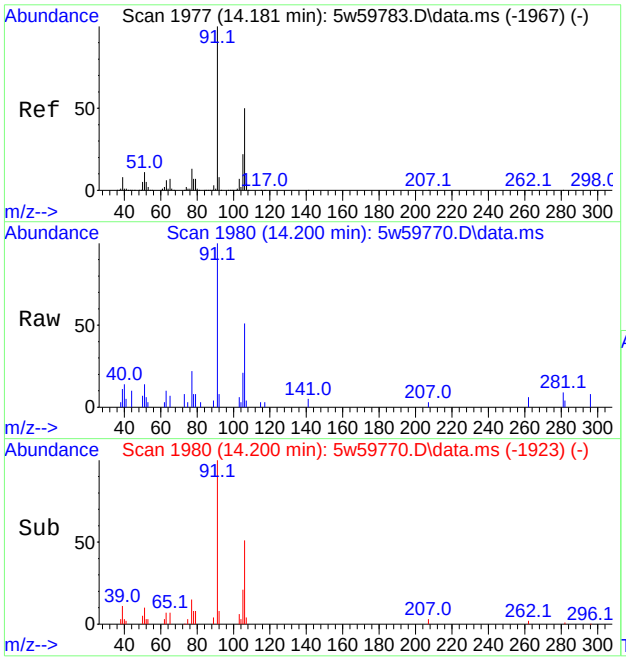


#79
ETHYLBENZENE
Concen: 0.12 PPBV
RT: 14.016 min Scan# 1950
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 24398

Ion	Ratio	Lower	Upper
91	100		
106	28.2	1.3	61.3
77	8.1	0.0	38.6

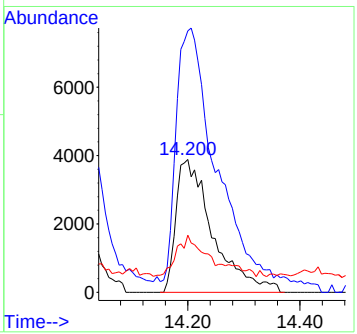


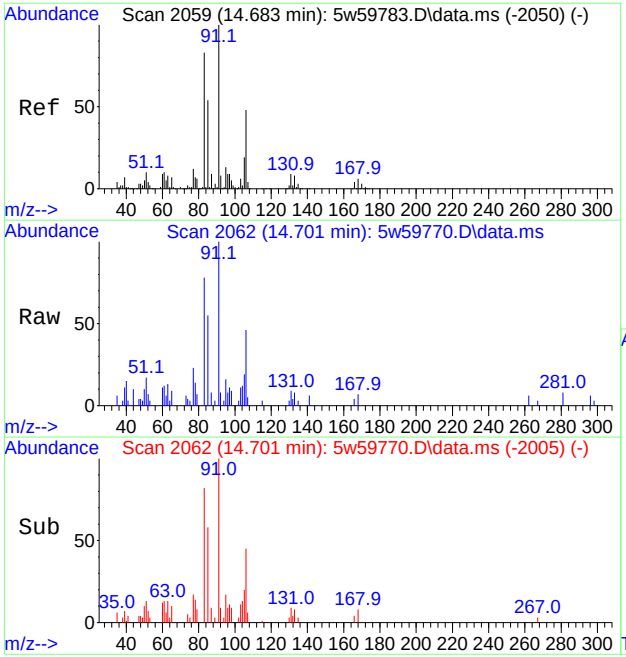


#80
m,p-XYLENE
Concen: 0.22 PPBV
RT: 14.200 min Scan# 1980
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 17695

Ion	Ratio	Lower	Upper
106	100		
91	196.6	171.0	231.0
77	43.1	0.0	56.7

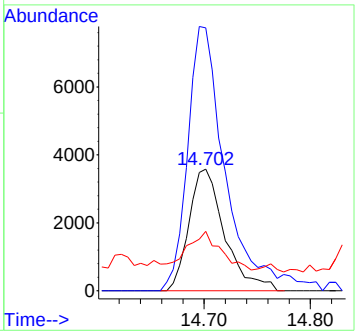


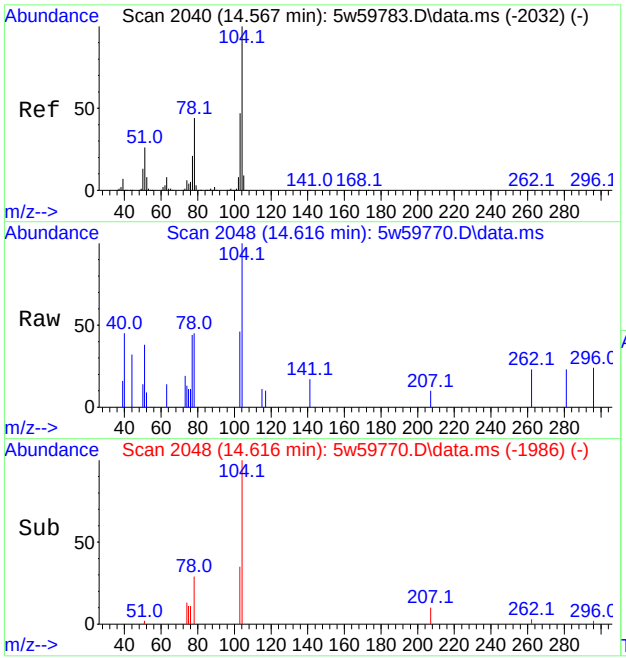


#81
o-XYLENE
Concen: 0.11 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 8363

Ion	Ratio	Lower	Upper
106	100		
91	232.2	181.6	241.6
77	28.4	0.0	56.6

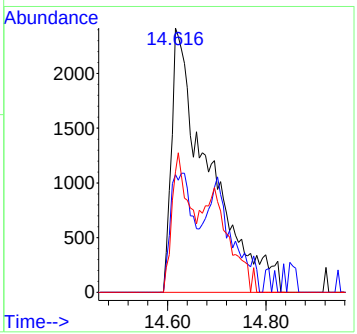


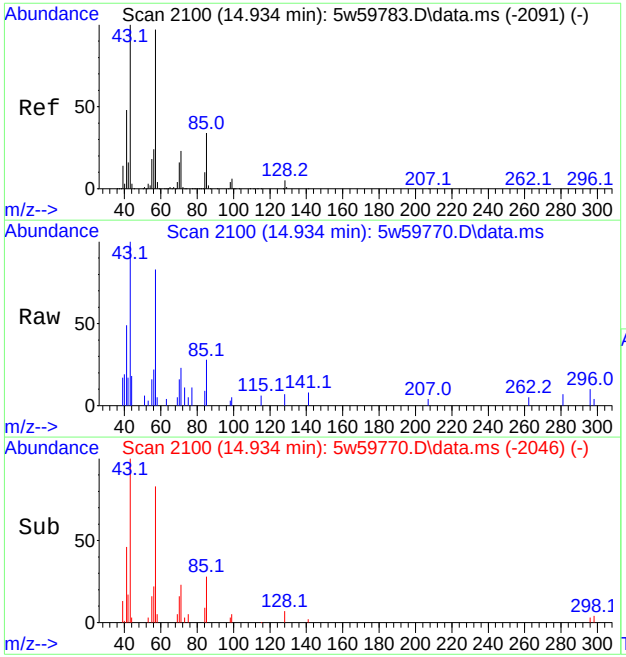


#82
STYRENE
Concen: 0.11 PPBV
RT: 14.616 min Scan# 2048
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:104 Resp: 12755

Ion	Ratio	Lower	Upper
104	100		
78	58.0	13.3	73.3
103	54.2	17.2	77.2

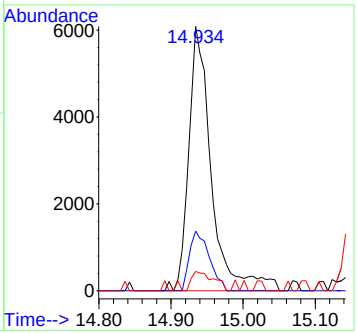


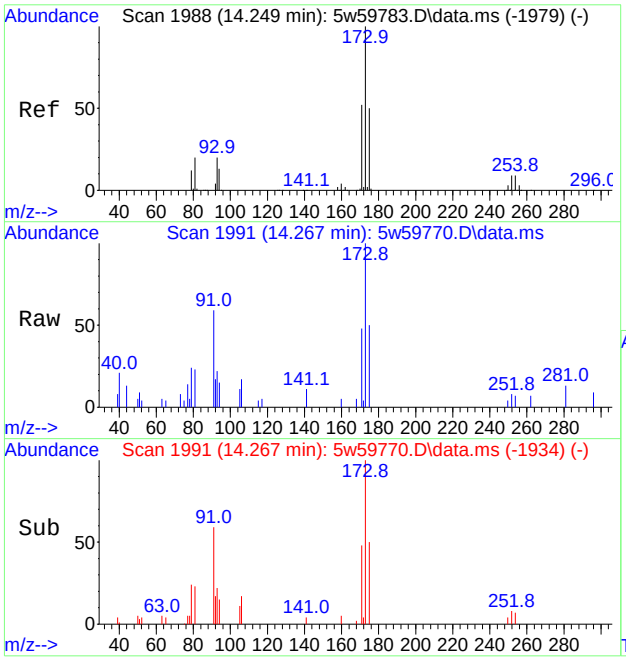


#83
NONANE
Concen: 0.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 13253

Ion	Ratio	Lower	Upper
43	100		
71	19.7	0.0	52.7
128	7.1	0.0	34.7

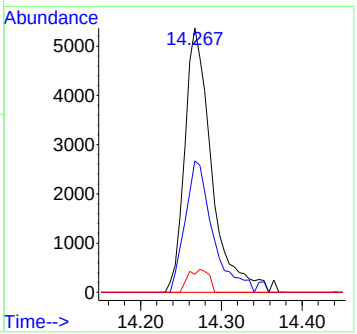


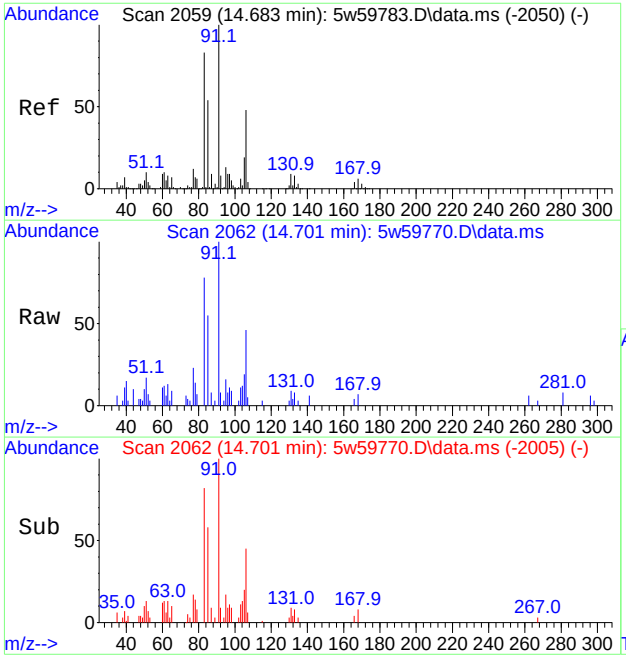


#84
BROMOFORM
Concen: 0.10 PPBV
RT: 14.267 min Scan# 1991
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:173 Resp: 12500

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	6.7	0.0	39.0

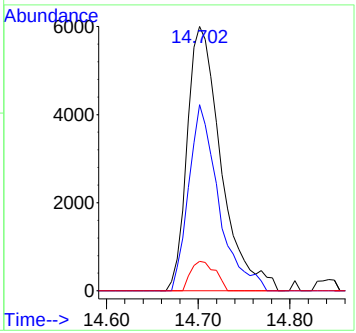


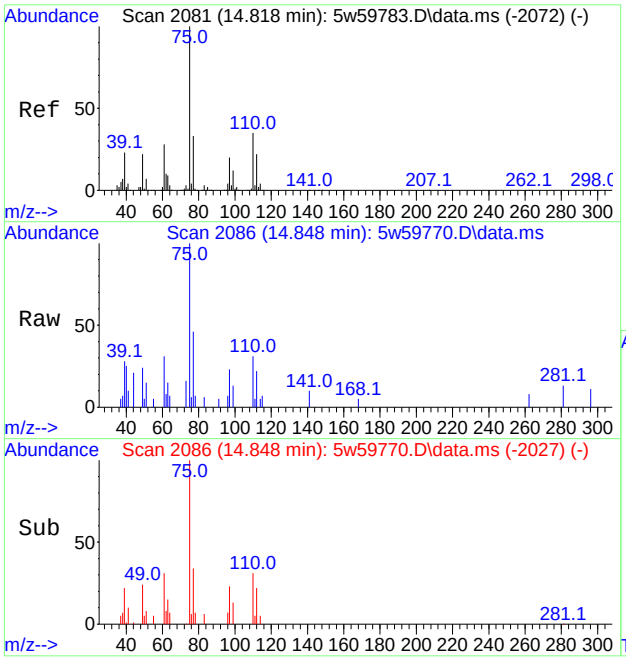


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.12 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 15380

Ion	Ratio	Lower	Upper
83	100		
85	62.5	35.2	95.2
131	8.1	0.0	40.3

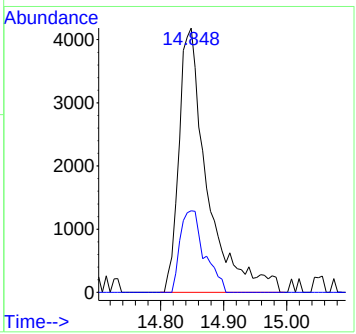


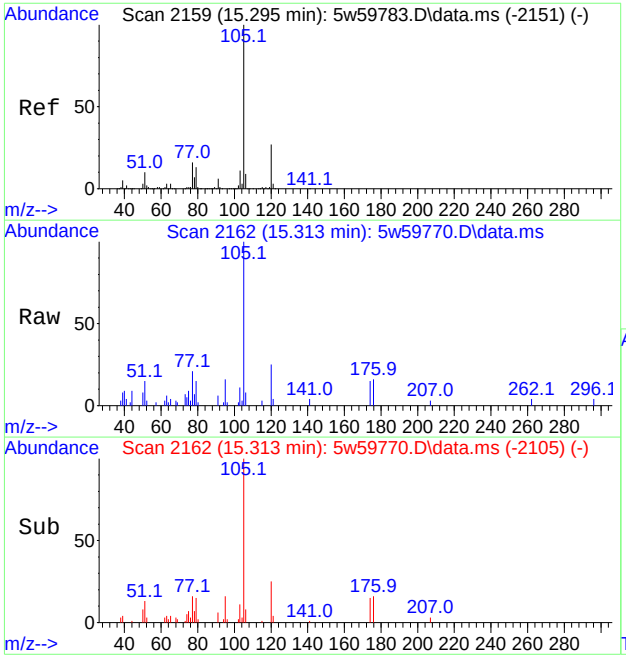


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.13 PPBV
RT: 14.848 min Scan# 2086
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 13012

Ion	Ratio	Lower	Upper
75	100		
110	26.6	4.4	64.4

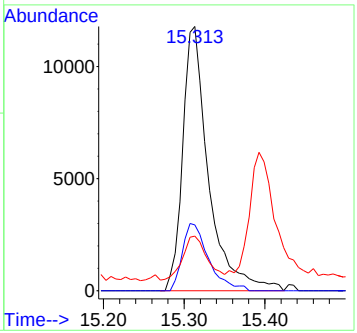


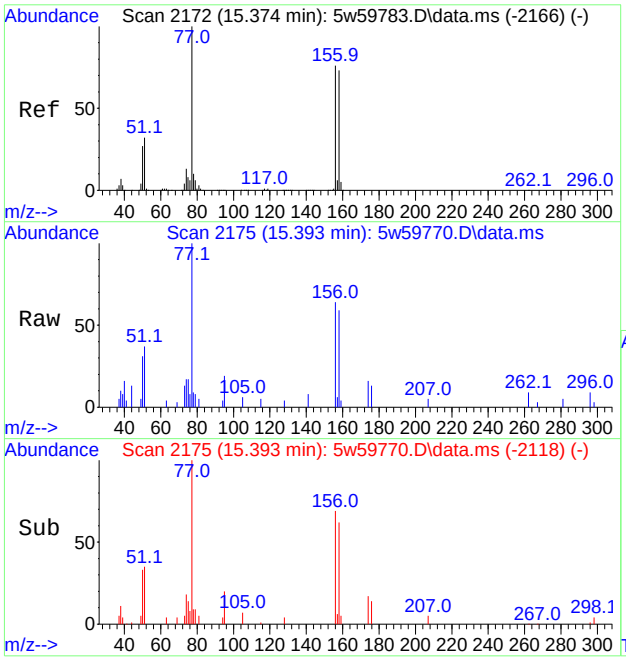


#88
ISOPROPYLBENZENE
Concen: 0.12 PPBV
RT: 15.313 min Scan# 2162
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 26261

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	17.6	0.0	45.6

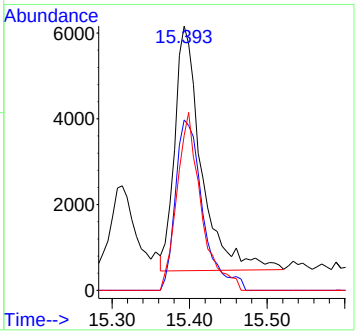


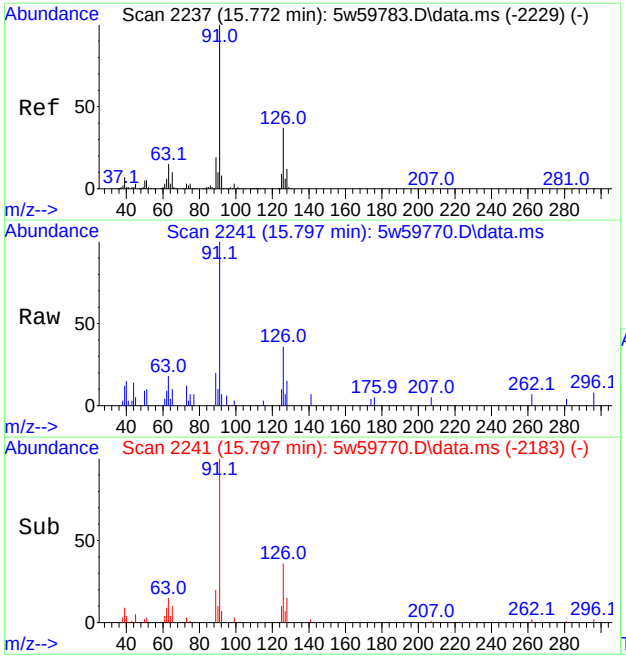


#89
BROMOBENZENE
Concen: 0.12 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 77 Resp: 13681

Ion	Ratio	Lower	Upper
77	100		
156	71.4	54.9	101.9
158	66.2	53.5	99.3

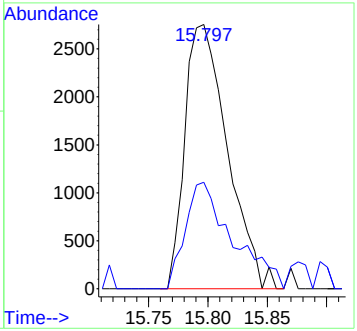


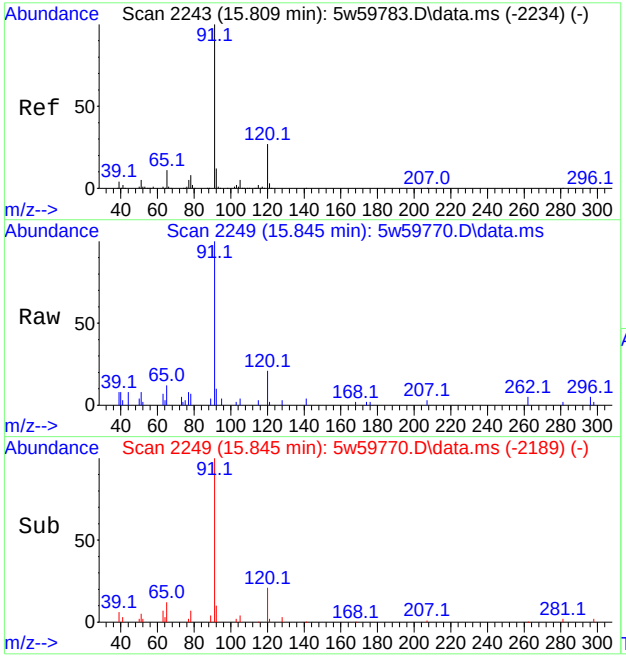


#90
2-CHLOROTOLUENE
Concen: 0.11 PPBV
RT: 15.797 min Scan# 2241
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:126 Resp: 6870

Ion	Ratio	Lower	Upper
126	100		
128	44.7	2.7	62.7

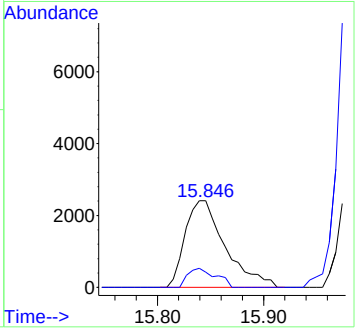


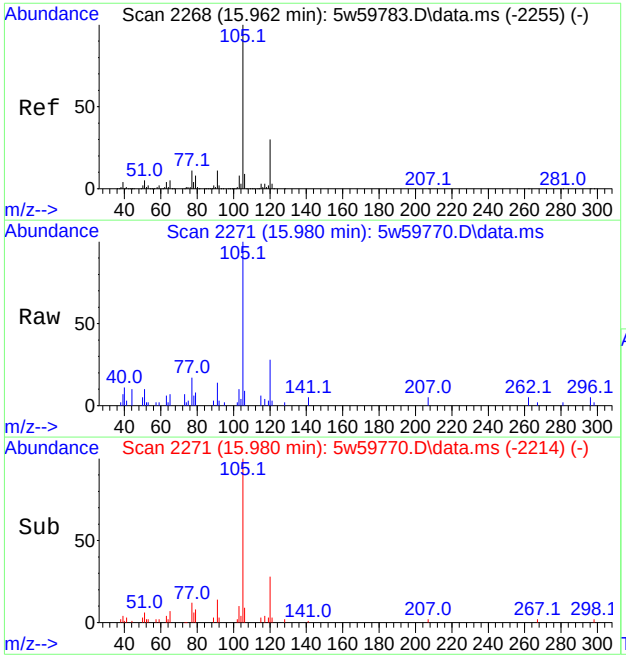


#91
n-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.845 min Scan# 2249
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:120 Resp: 6334

Ion	Ratio	Lower	Upper
120	100		
105	15.4	0.0	47.0

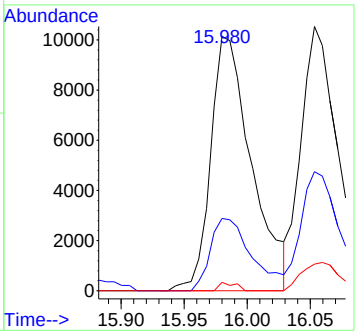


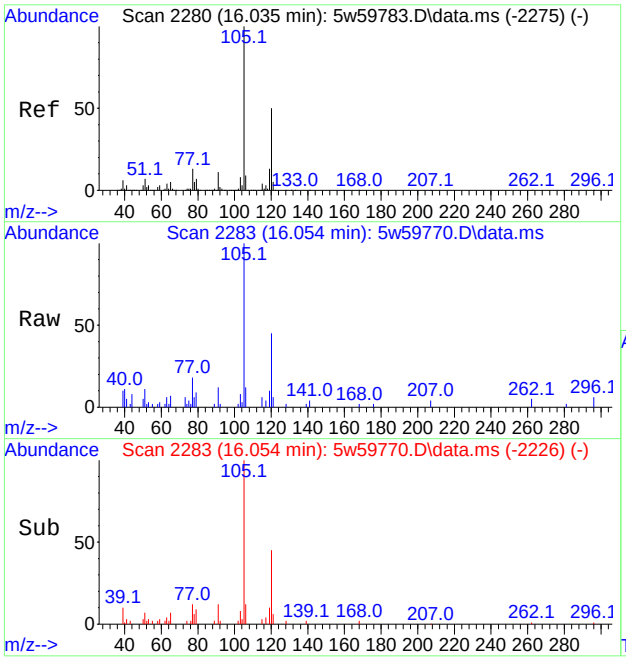


#92
4-ETHYLTOLUENE
Concen: 0.11 PPBV
RT: 15.980 min Scan# 2271
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 22792

Ion	Ratio	Lower	Upper
105	100		
120	29.0	0.0	59.9
119	1.3	0.0	32.3

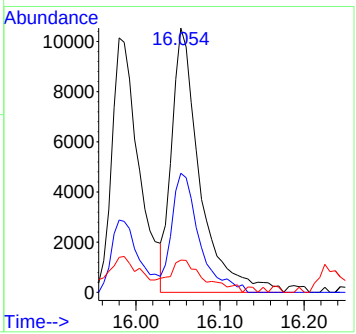


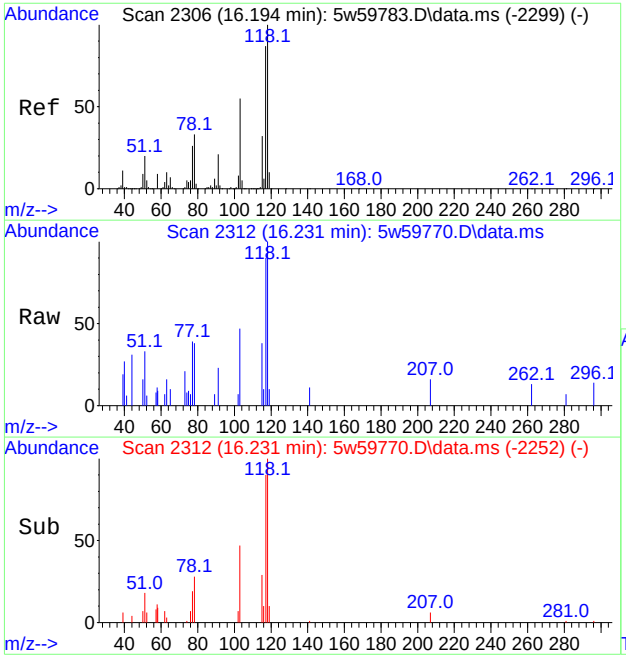


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.13 PPBV
RT: 16.054 min Scan# 2283
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 24501

Ion	Ratio	Lower	Upper
105	100		
120	43.9	19.4	79.4
91	14.7	0.0	40.8

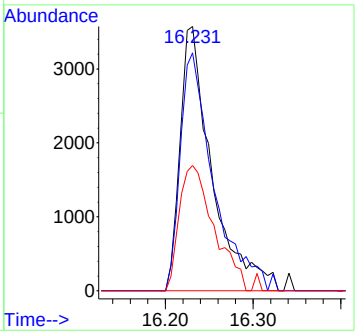


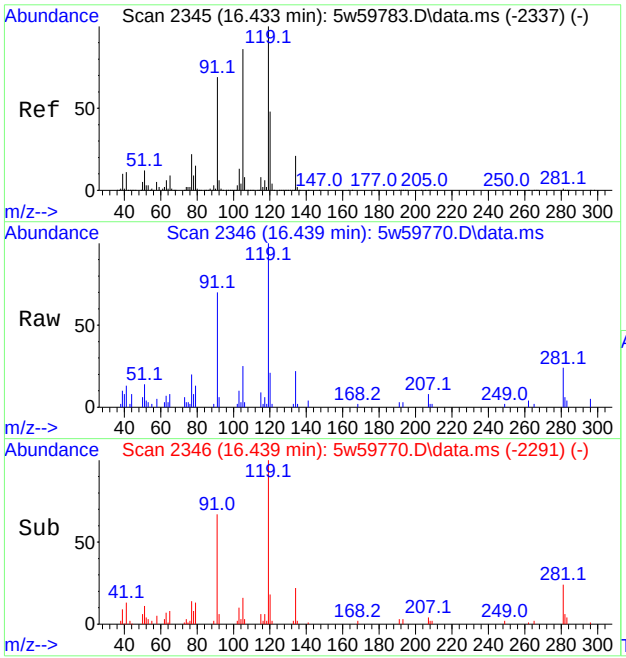


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.231 min Scan# 2312
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:118 Resp: 9018

Ion	Ratio	Lower	Upper
118	100		
117	94.5	60.9	113.1
103	51.7	38.6	71.8

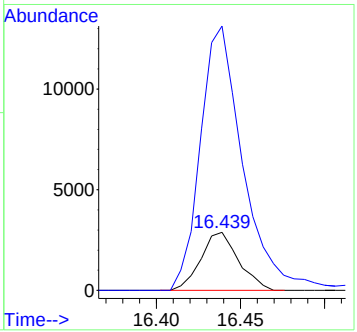


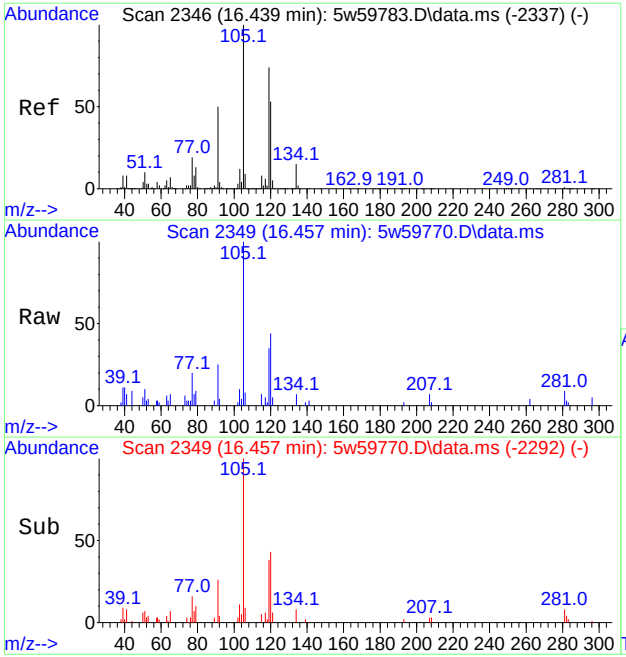


#95
tert-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 4502

Ion	Ratio	Lower	Upper
134	100		
119	518.7	459.3	519.3

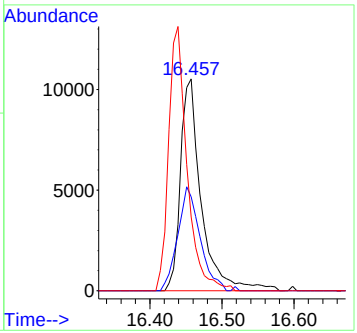


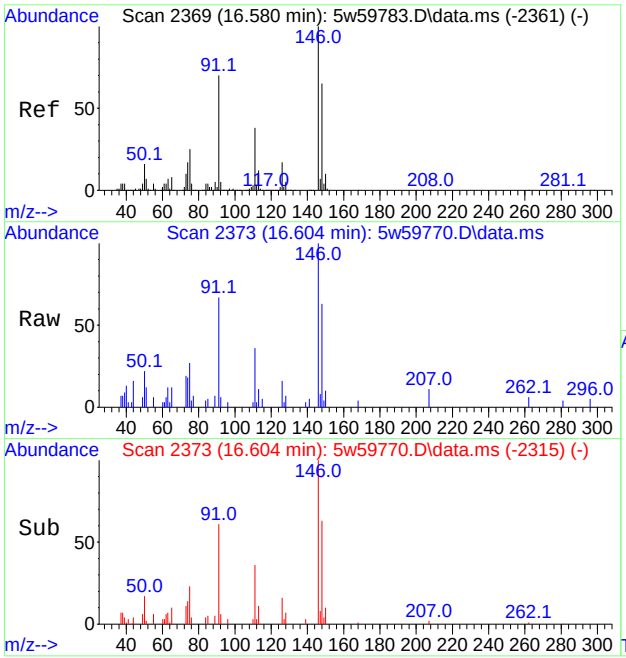


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.457 min Scan# 2349
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 21144

Ion	Ratio	Lower	Upper
105	100		
120	52.5	25.7	85.7
119	110.4	75.7	135.7

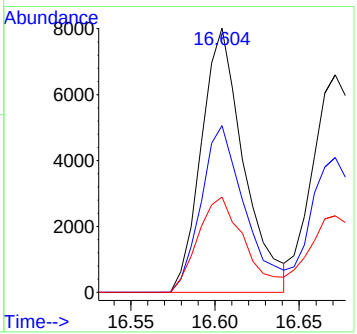


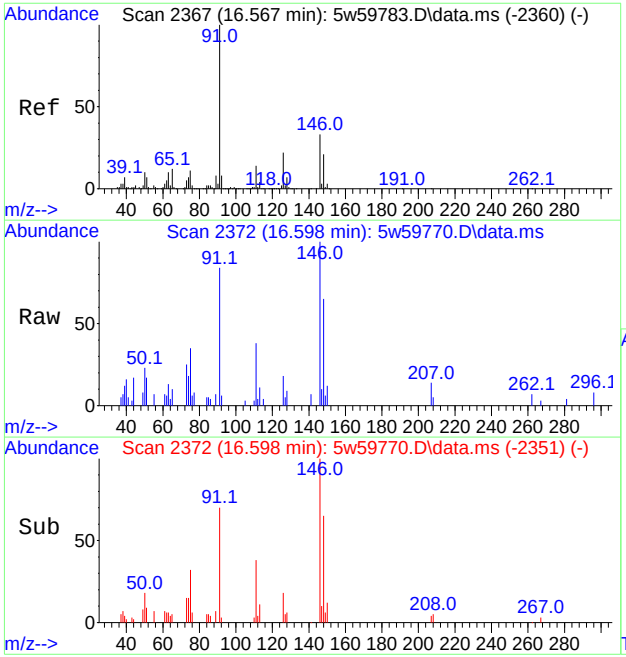


#97
m-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.604 min Scan# 2373
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 14099

Ion	Ratio	Lower	Upper
146	100		
148	65.5	34.8	94.8
111	40.2	8.2	68.2

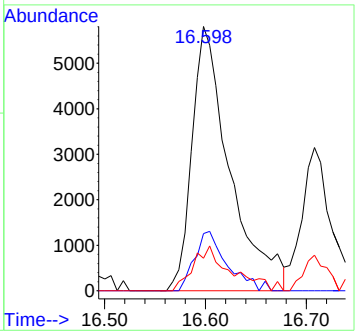


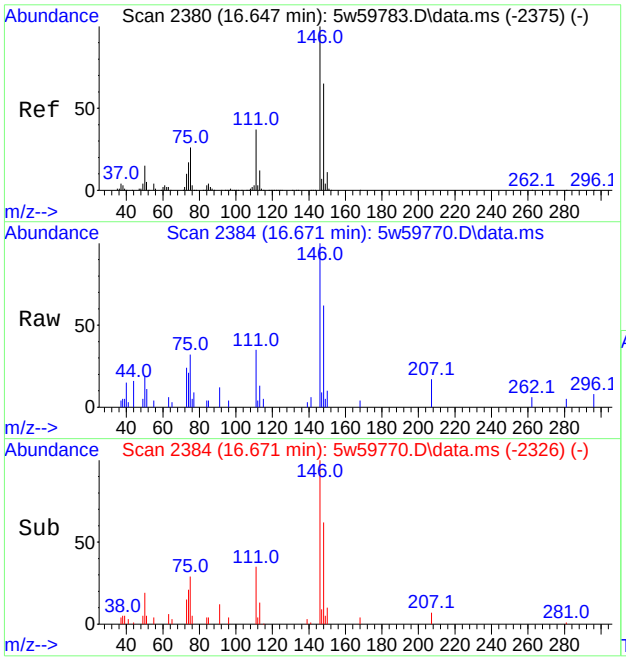


#98
BENZYL CHLORIDE
Concen: 0.09 PPBV
RT: 16.598 min Scan# 2372
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 15140

Ion	Ratio	Lower	Upper
91	100		
126	19.2	0.0	51.7
65	16.9	0.0	42.2

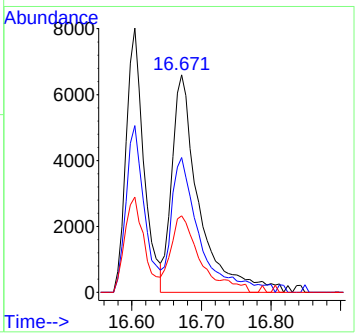


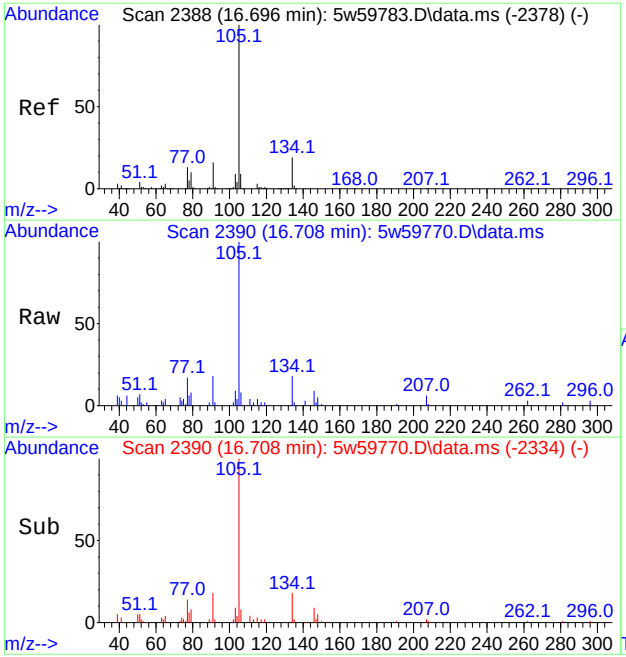


#99
p-DICHLOROBENZENE
Concen: 0.12 PPBV
RT: 16.671 min Scan# 2384
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 17844

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	38.4	6.7	66.7

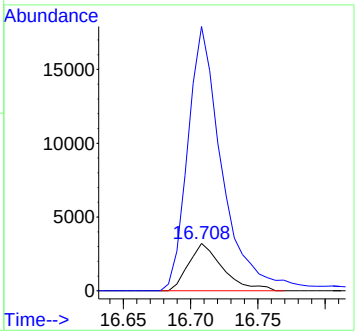


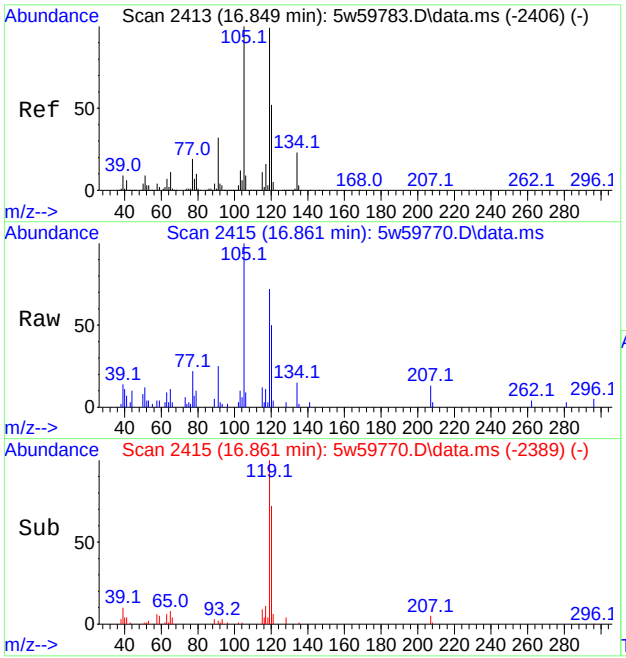


#100
sec-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.708 min Scan# 2390
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5680

Ion	Ratio	Lower	Upper
134	100		
105	572.9	502.5	562.5#

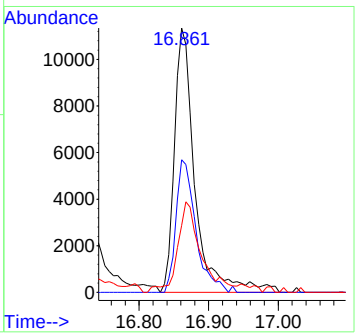


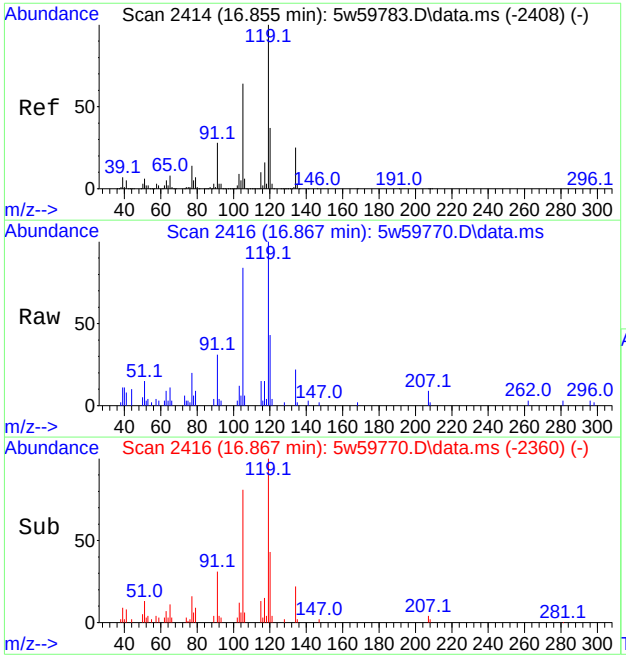


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 23306

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.5	83.5
91	41.1	7.4	67.4

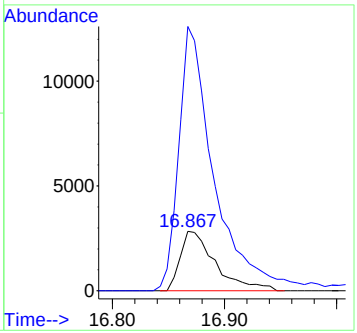


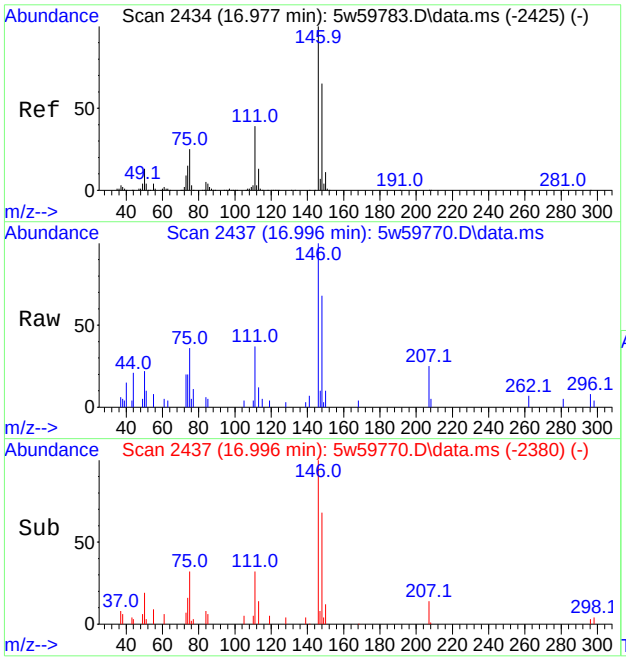


#102
p-ISOPROPYLTOLUENE
Concen: 0.11 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 6197

Ion	Ratio	Lower	Upper
134	100		
119	456.3	377.7	437.7#

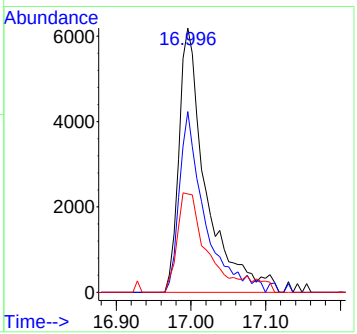


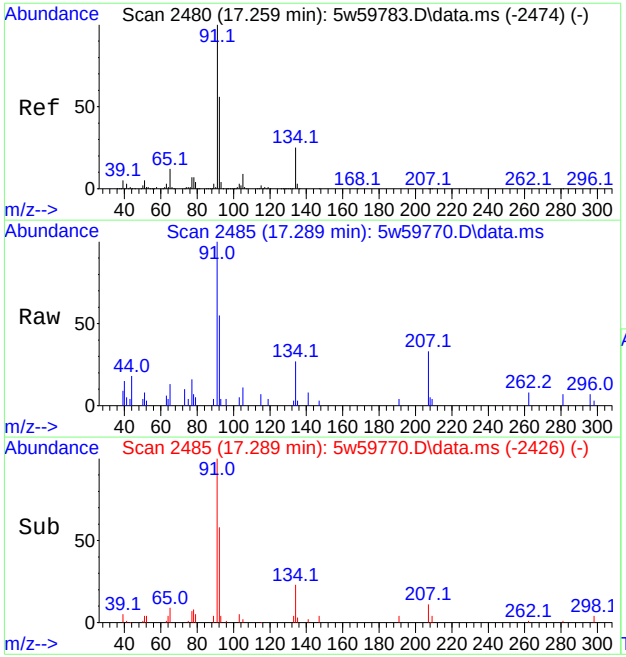


#103
o-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.996 min Scan# 2437
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 15528

Ion	Ratio	Lower	Upper
146	100		
148	64.1	34.3	94.3
111	44.3	9.2	69.2

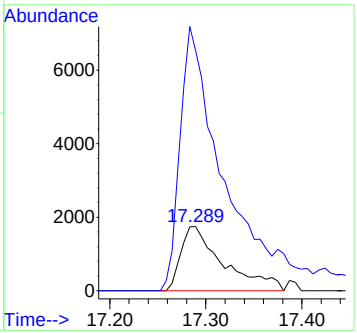


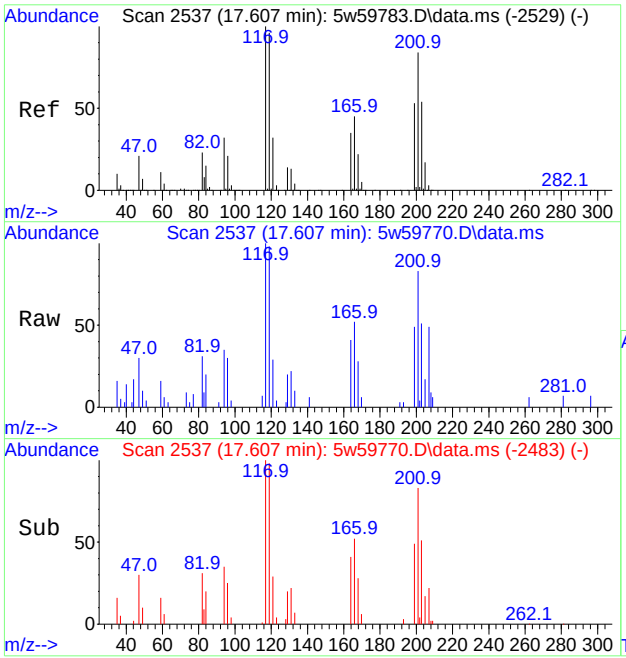


#104
n-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.289 min Scan# 2485
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5383

Ion	Ratio	Lower	Upper
134	100		
91	477.2	363.1	423.1#

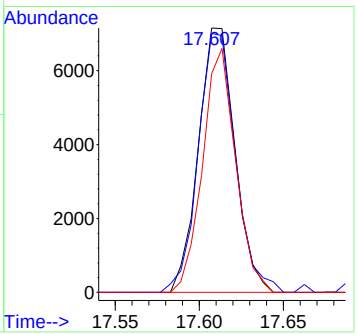


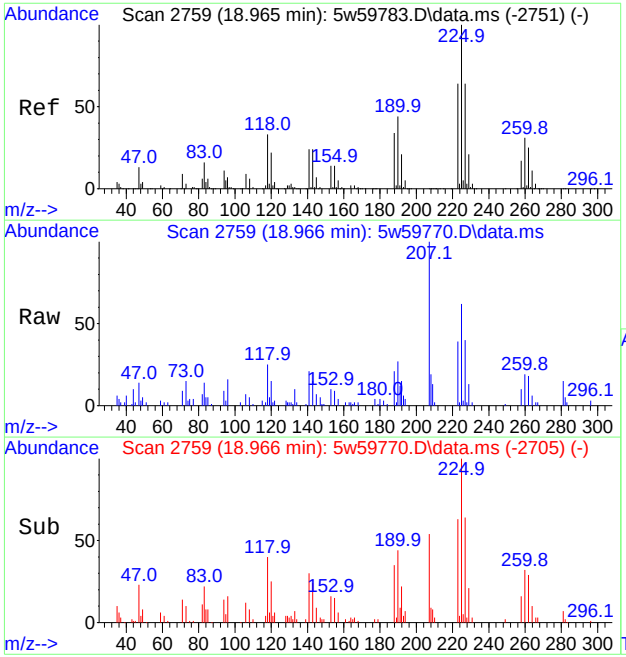


#105
HEXACHLOROETHANE
Concen: 0.11 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 10817

Ion	Ratio	Lower	Upper
117	100		
119	99.7	67.2	124.8
201	83.6	61.1	113.5

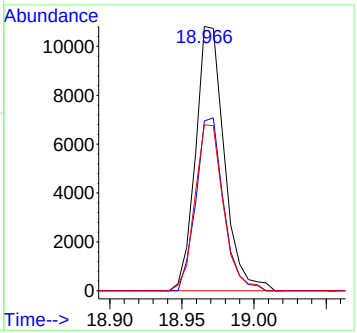


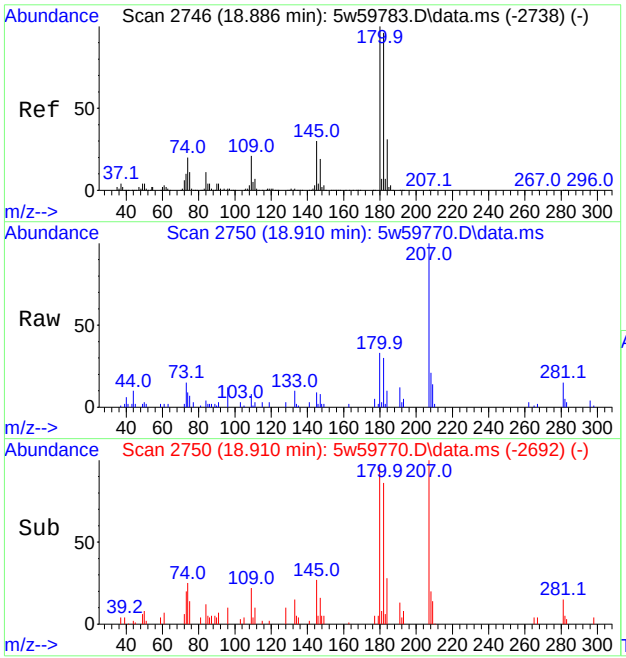


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:225 Resp: 14991

Ion	Ratio	Lower	Upper
225	100		
227	62.5	34.2	94.2
223	62.2	33.3	93.3

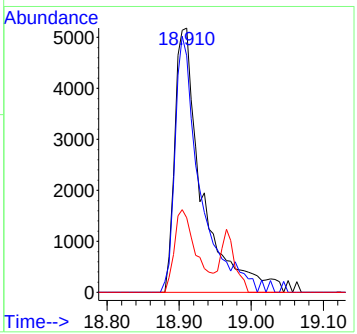


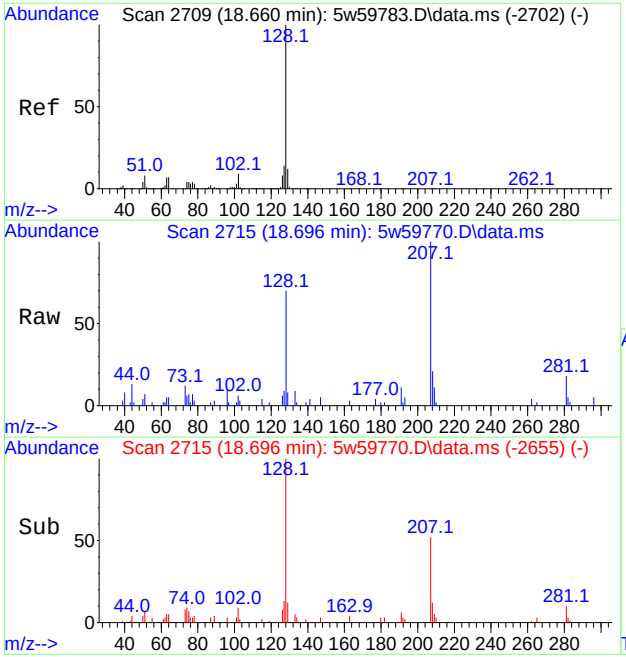


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.10 PPBV
RT: 18.910 min Scan# 2750
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:180 Resp: 13603

Ion	Ratio	Lower	Upper
180	100		
182	88.7	65.4	125.4
145	25.3	0.0	59.4

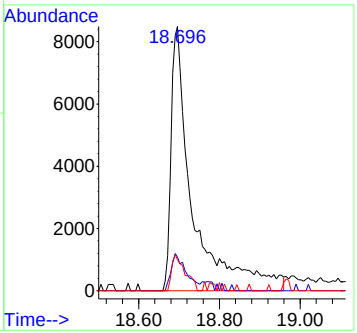


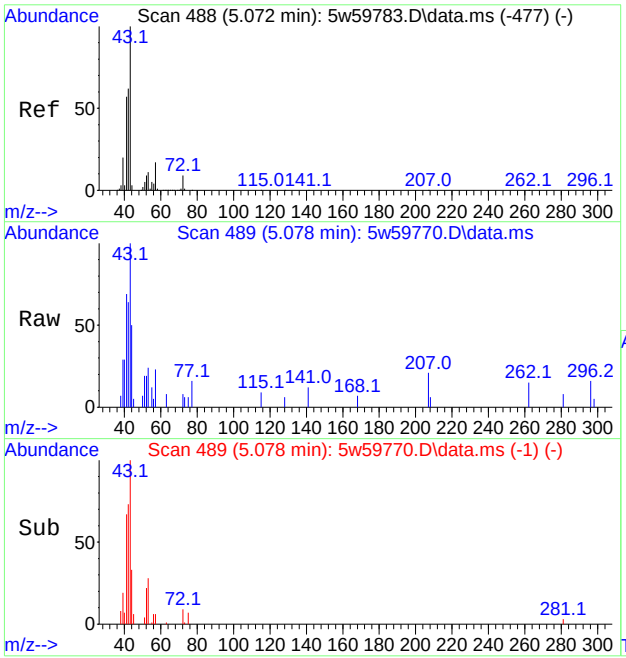


#108
NAPHTHALENE
Concen: 0.11 PPBV
RT: 18.696 min Scan# 2715
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:128 Resp: 31596

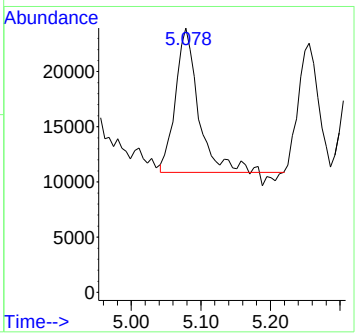
Ion	Ratio	Lower	Upper
128	100		
127	11.5	0.0	43.3
129	8.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.10 PPBV
RT: 5.078 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:TIC Resp: 29029



Manual Integration Approval Summary

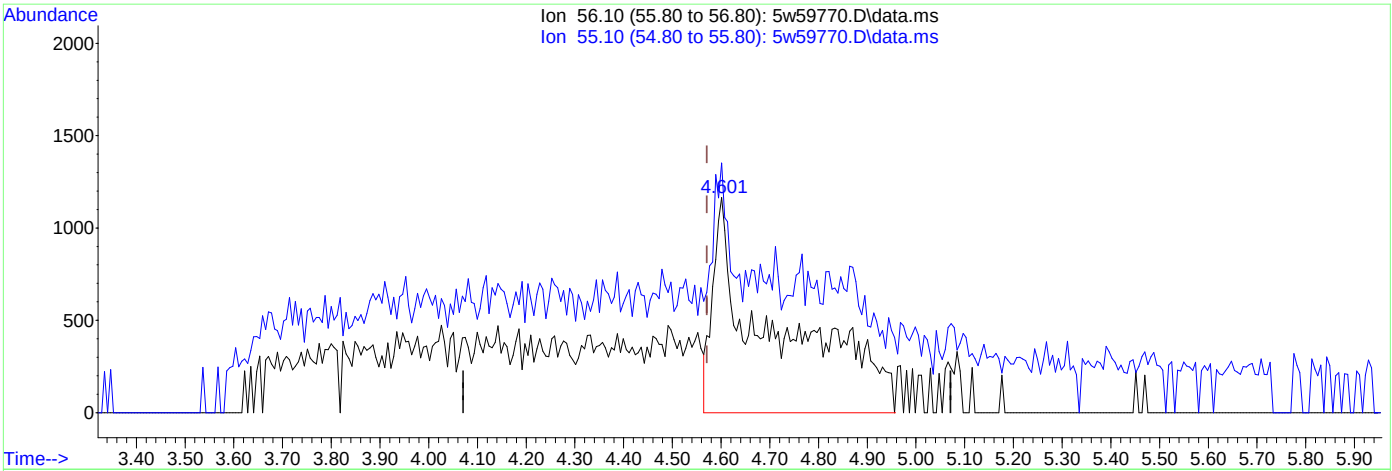
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59770.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:11 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

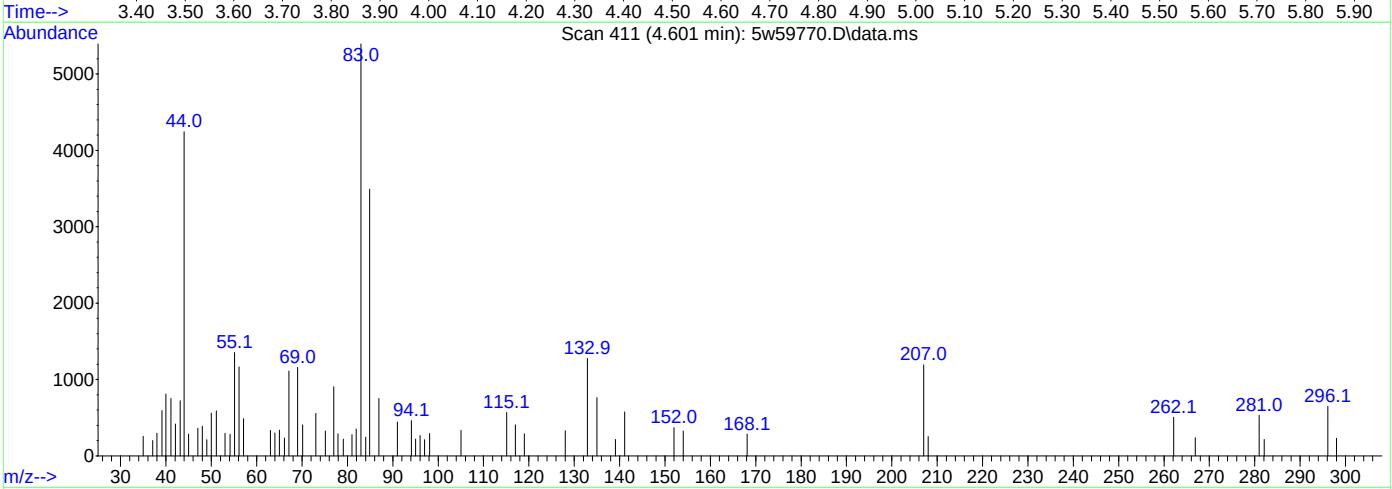
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		4.52	Poor instrument integration
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl ethyl ketone	78-93-3		6.92	Poor instrument integration
Methyl Acrylate	96-33-3		7.51	Missed peak
Ethyl Acetate	141-78-6		7.54	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.70PPBV

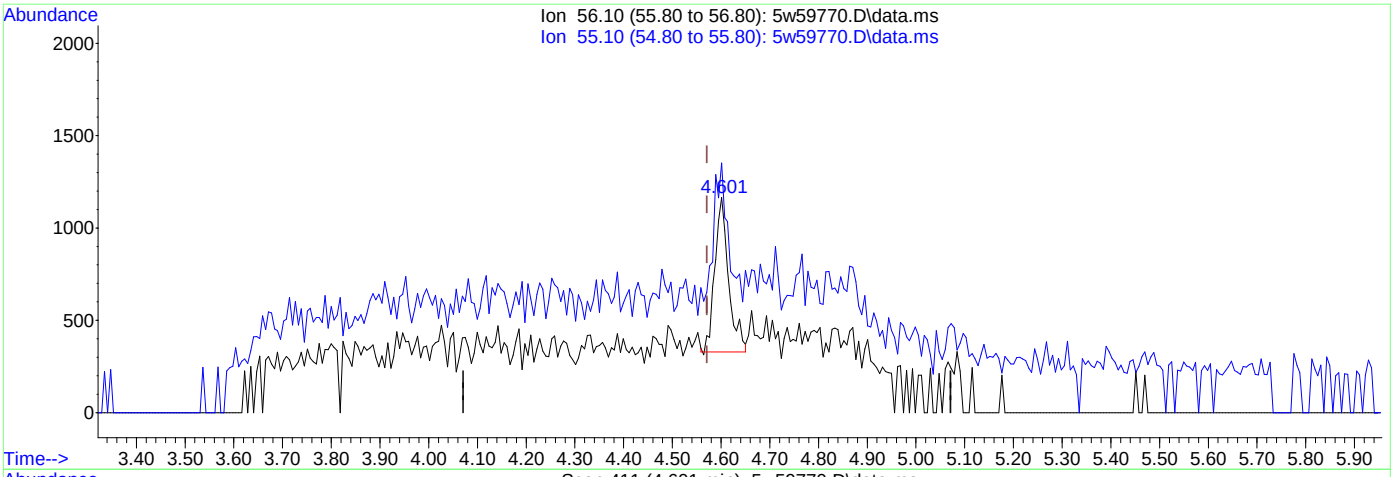
response 10153

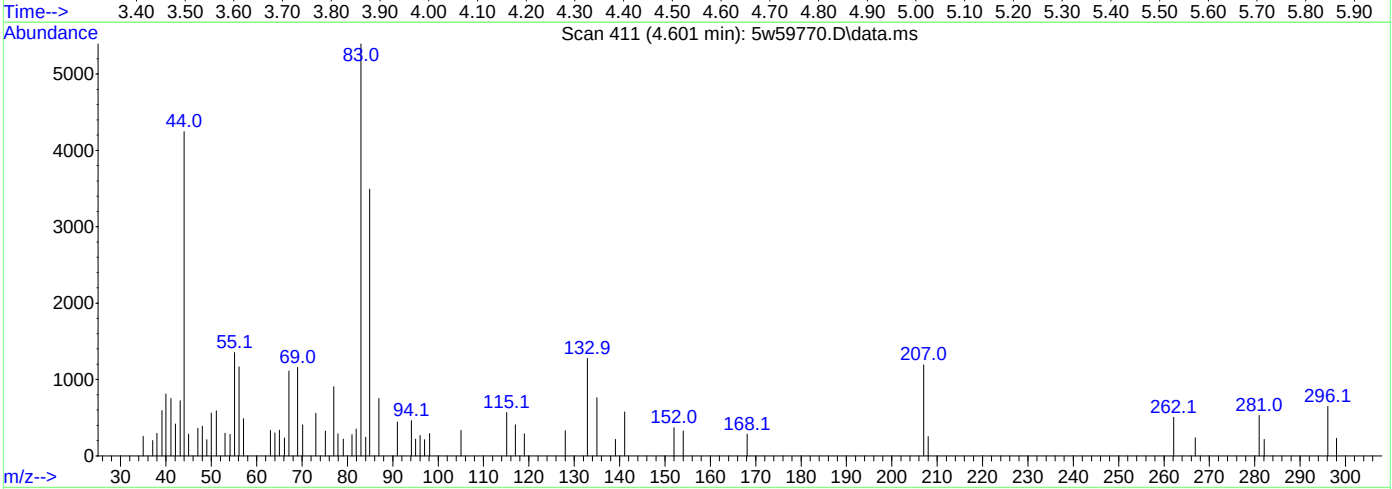
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	17.21#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.11PPBV m

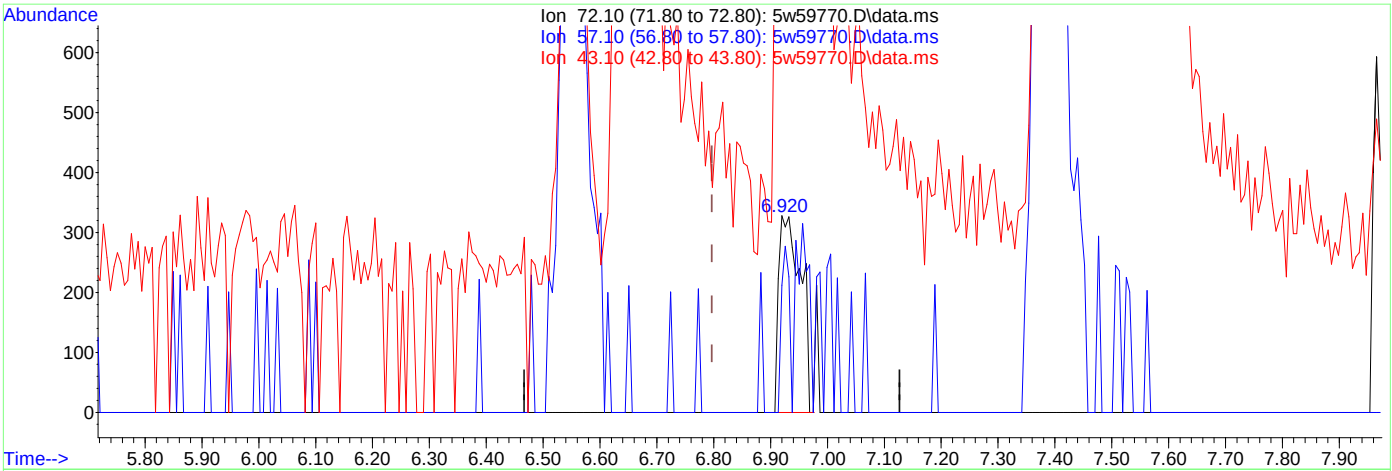
response 1642

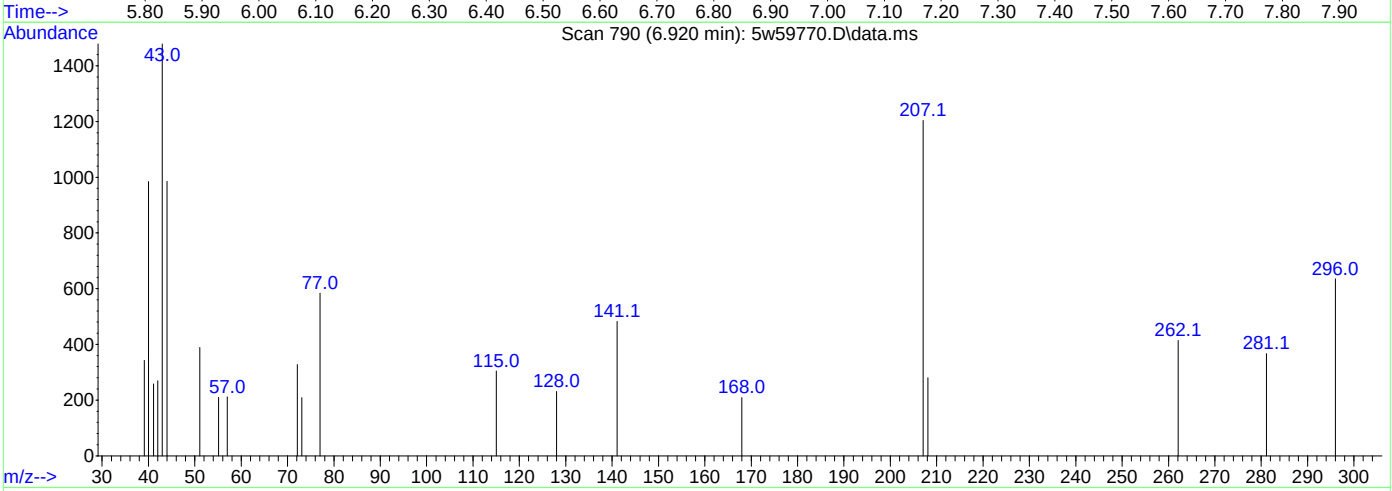
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	106.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.04PPBV

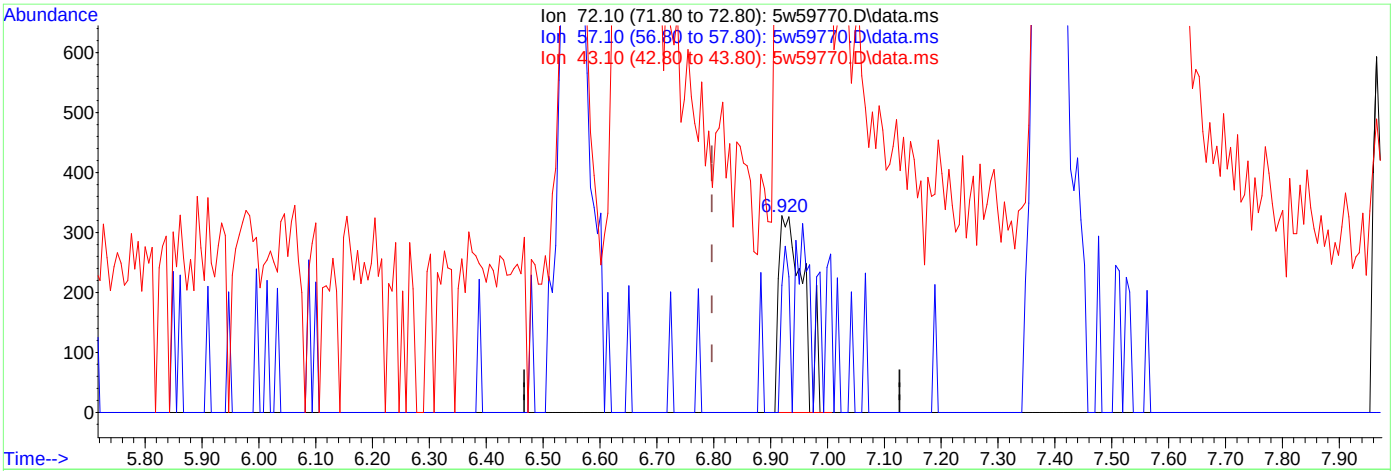
response 878

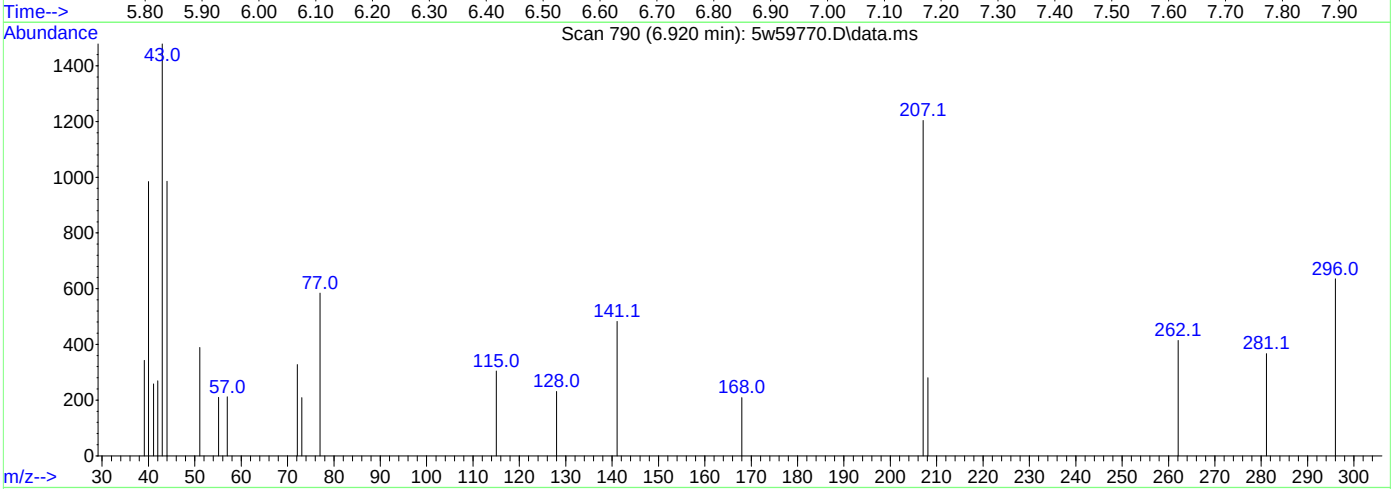
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.05PPBV m

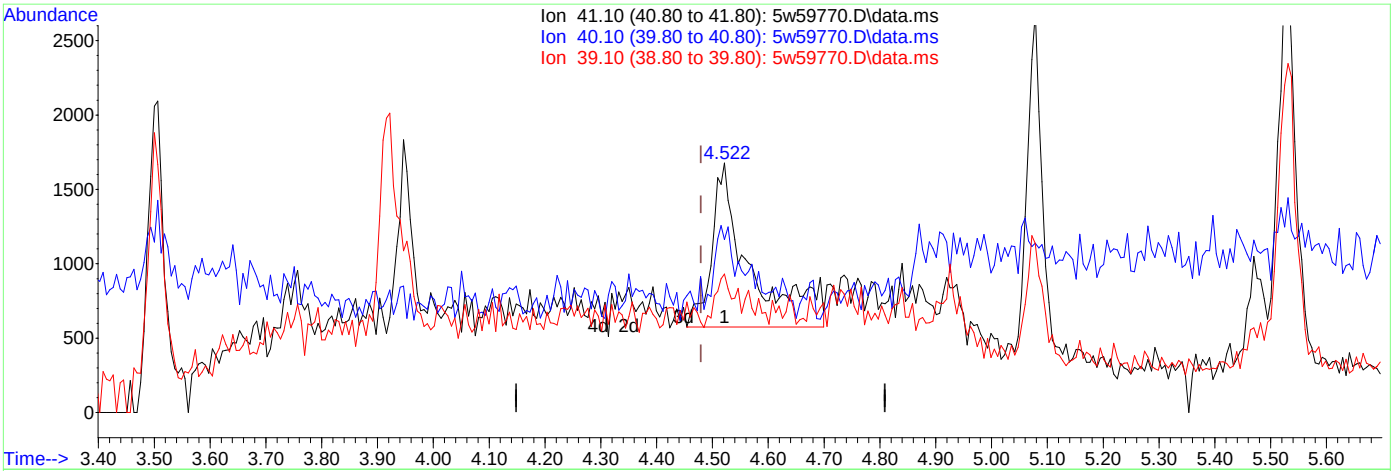
response 956

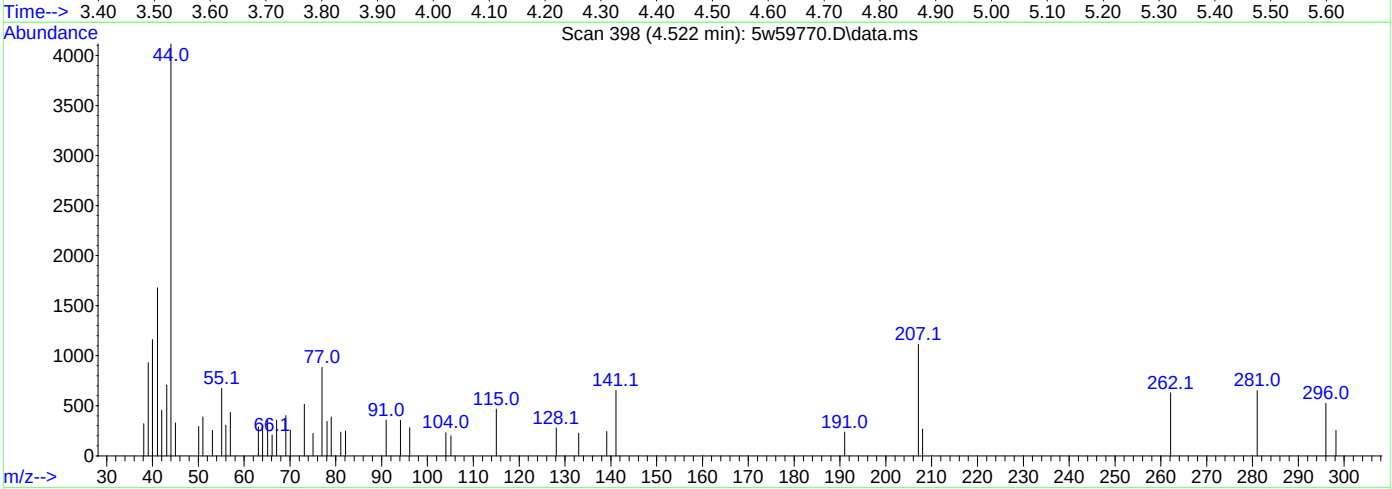
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.21PPBV

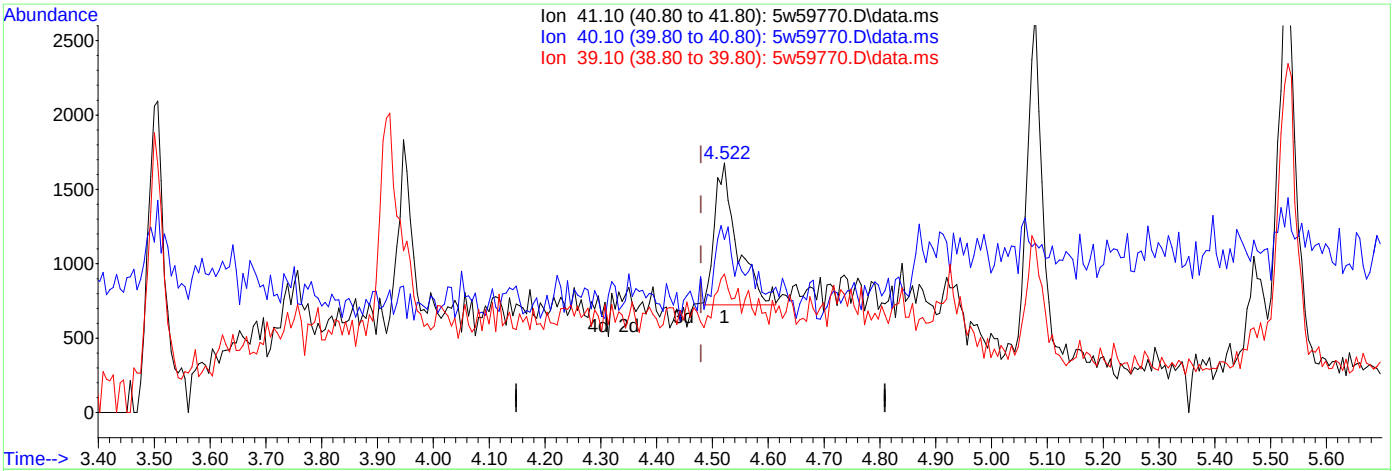
response 5252

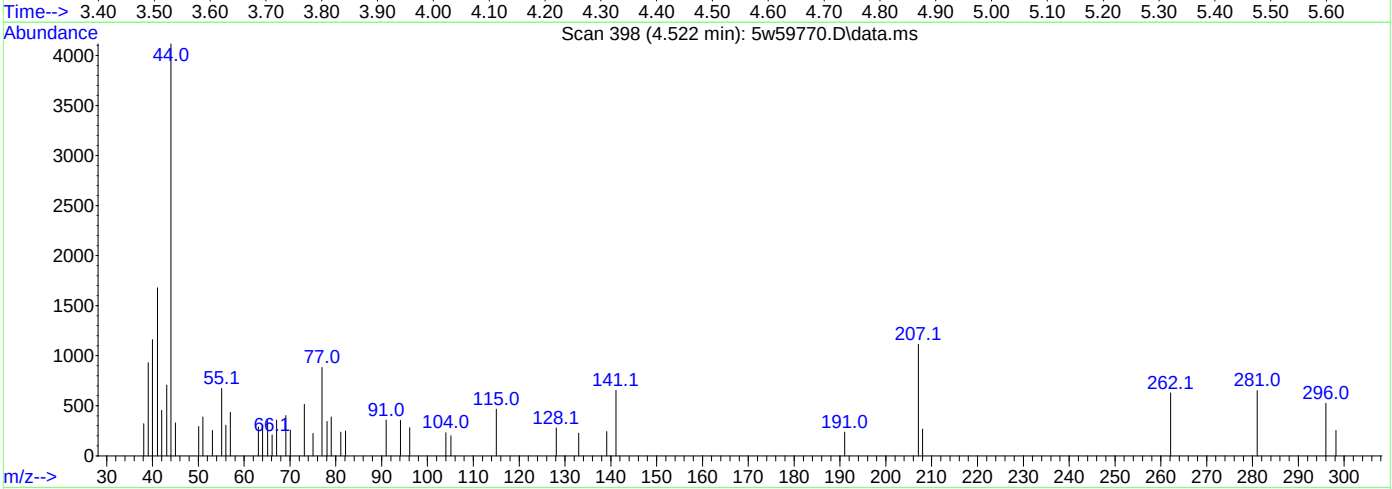
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	50.95
39.10	19.10	23.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.10PPBV m

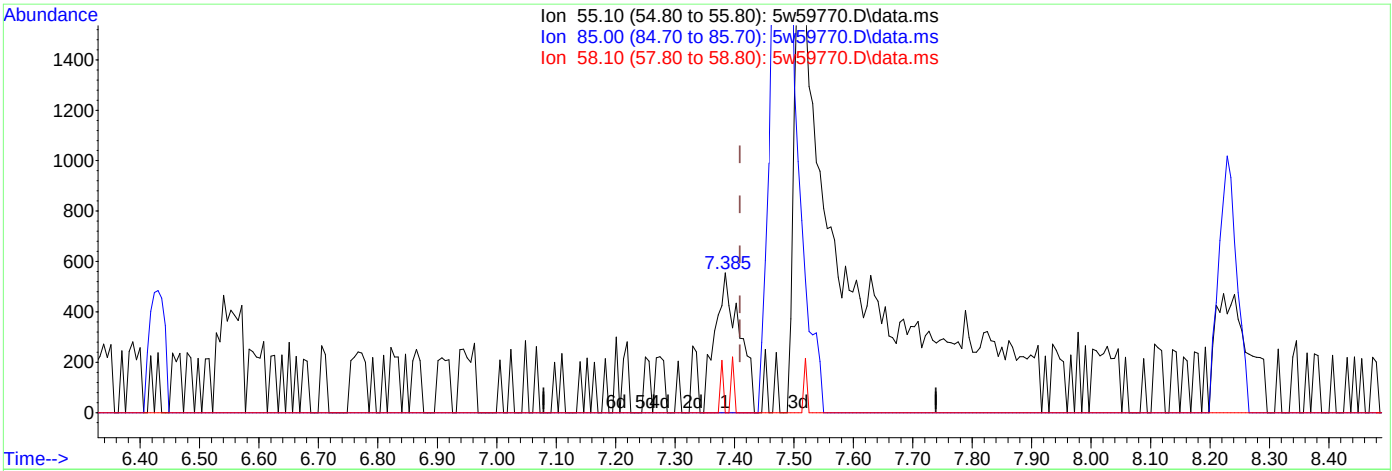
response 2670

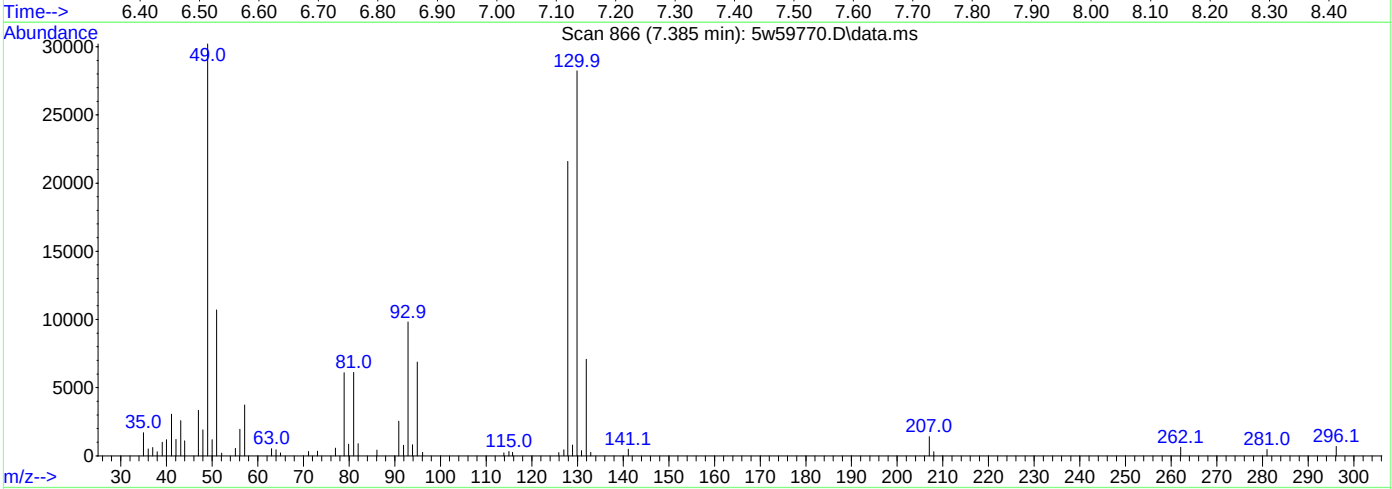
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	100.22#
39.10	19.10	46.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.02PPBV

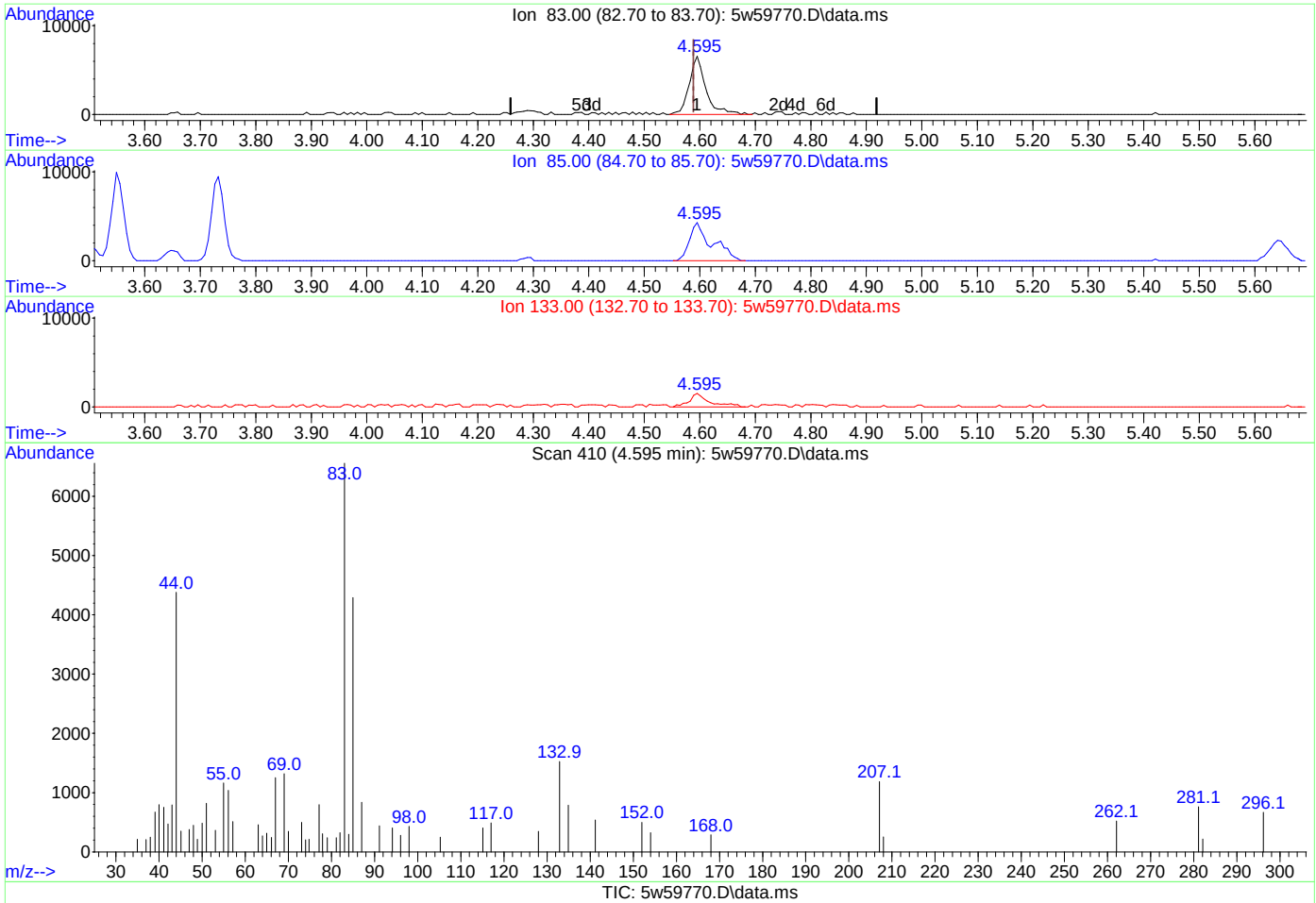
response 1598

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV

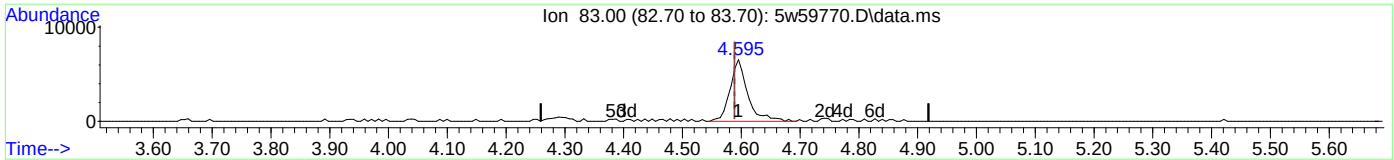
response 13808

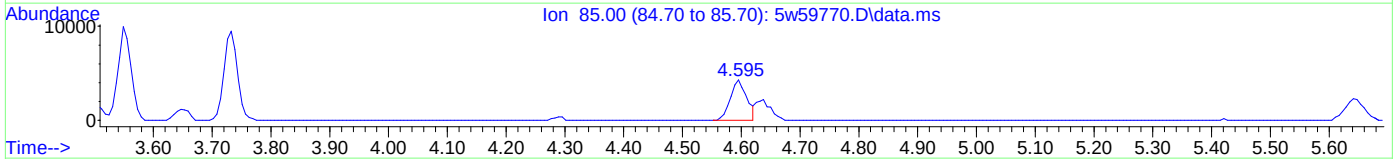
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	87.89
133.00	20.70	28.69
0.00	0.00	0.00

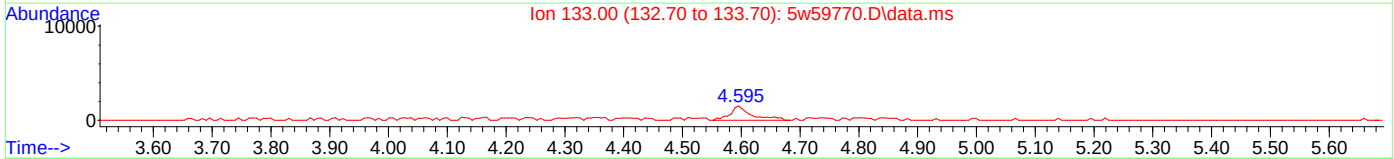
Quantitation Report (Qedit)

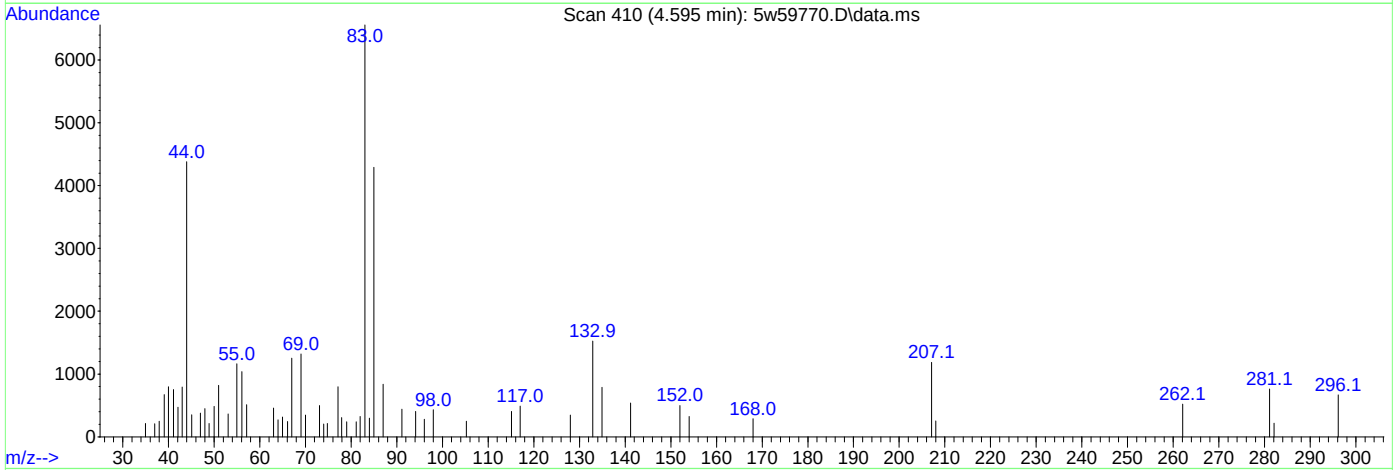
Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration









TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV m

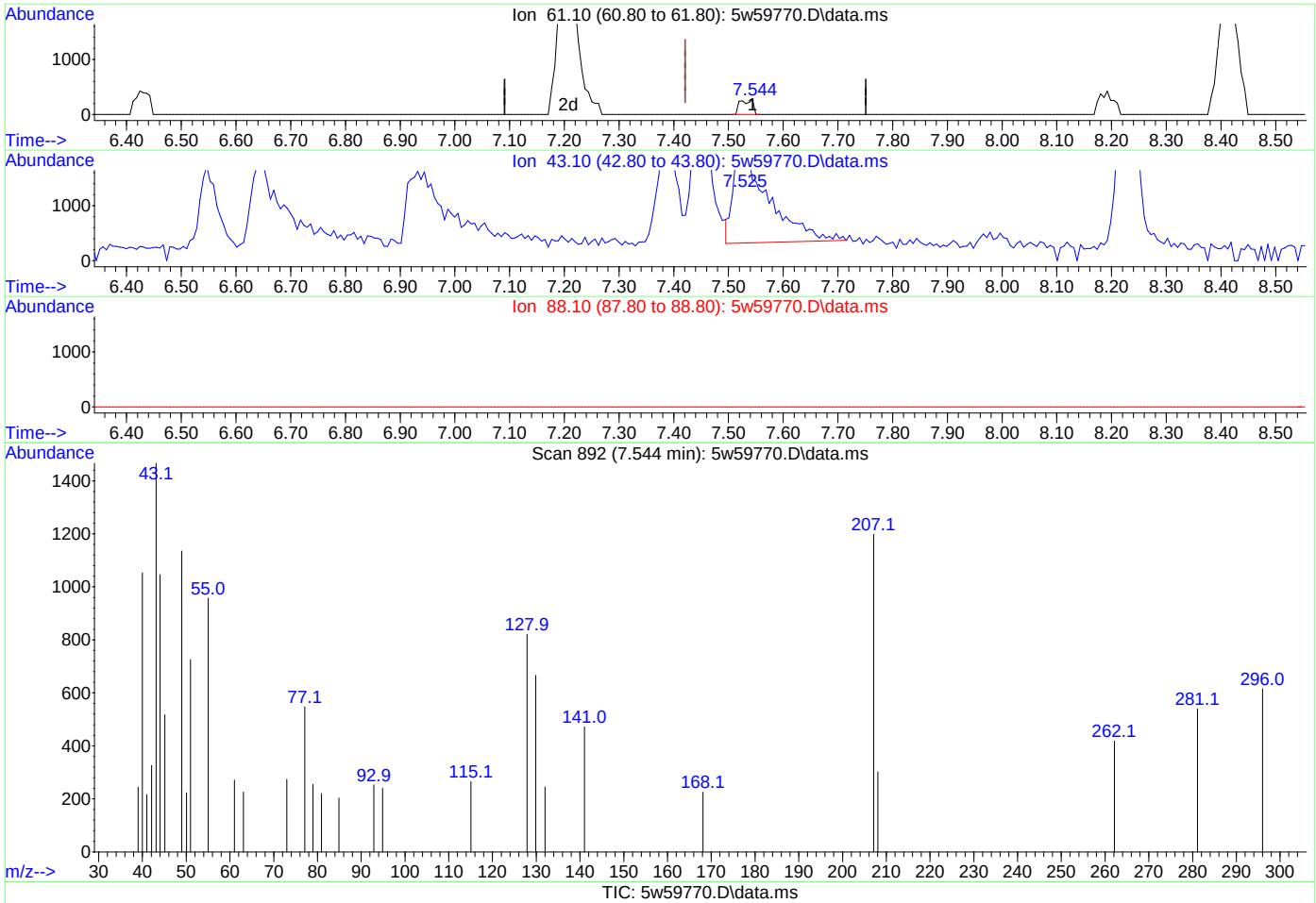
response 13808

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	60.19
133.00	20.70	28.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV

response 434

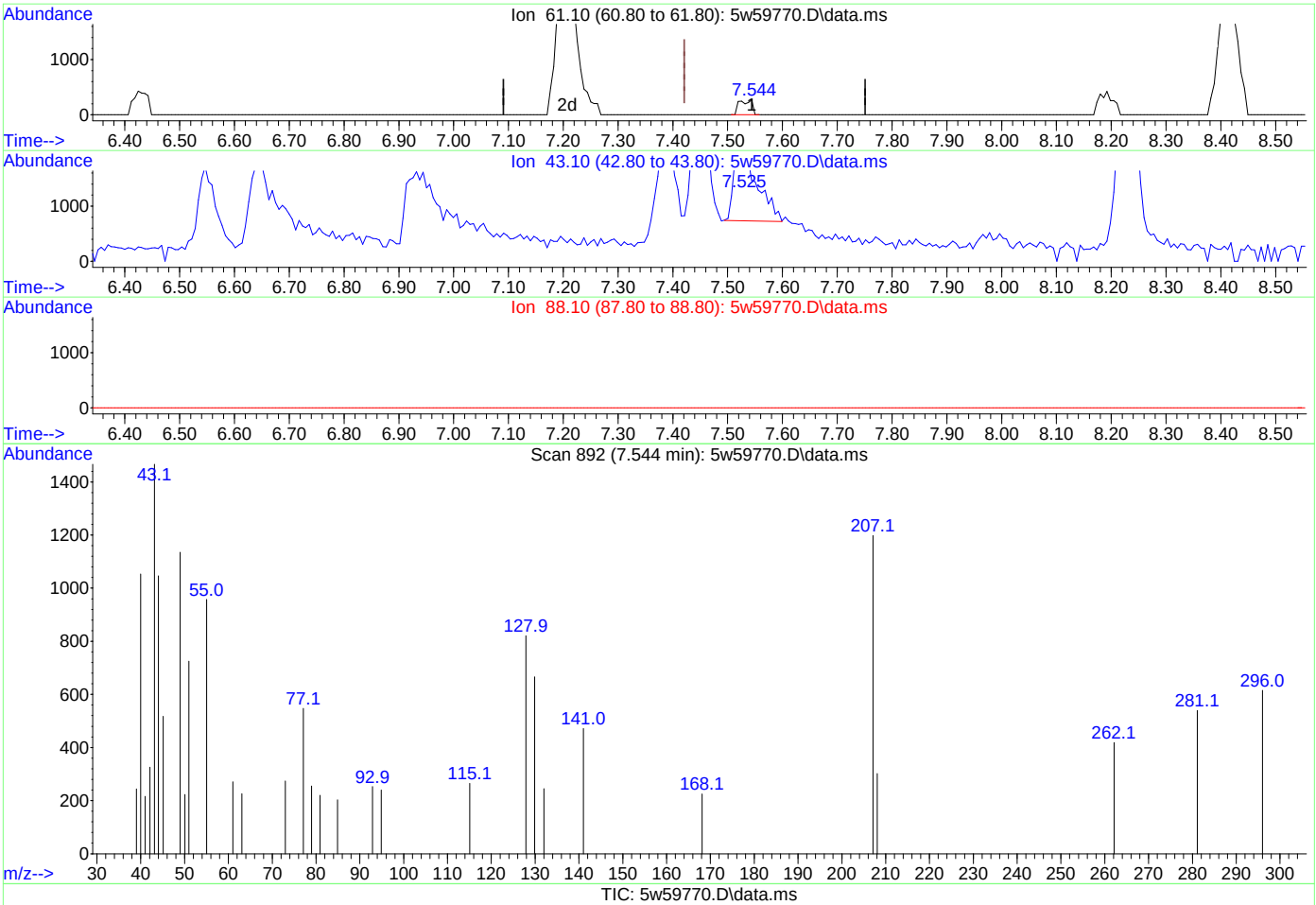
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1705.99#
88.10	34.50	0.00#
0.00	0.00	0.00

5W59770.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV m

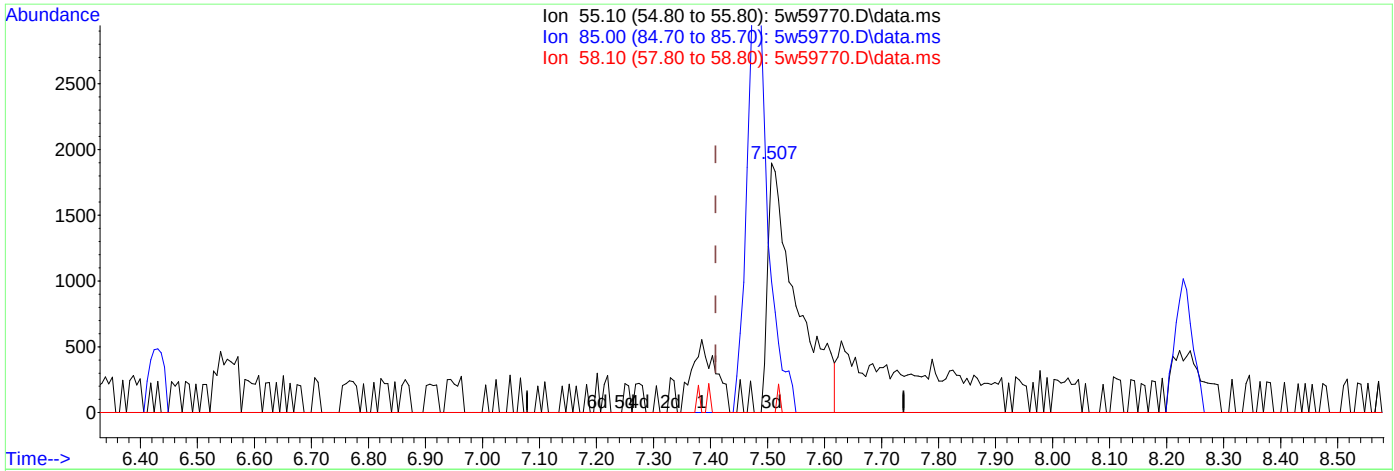
response 434

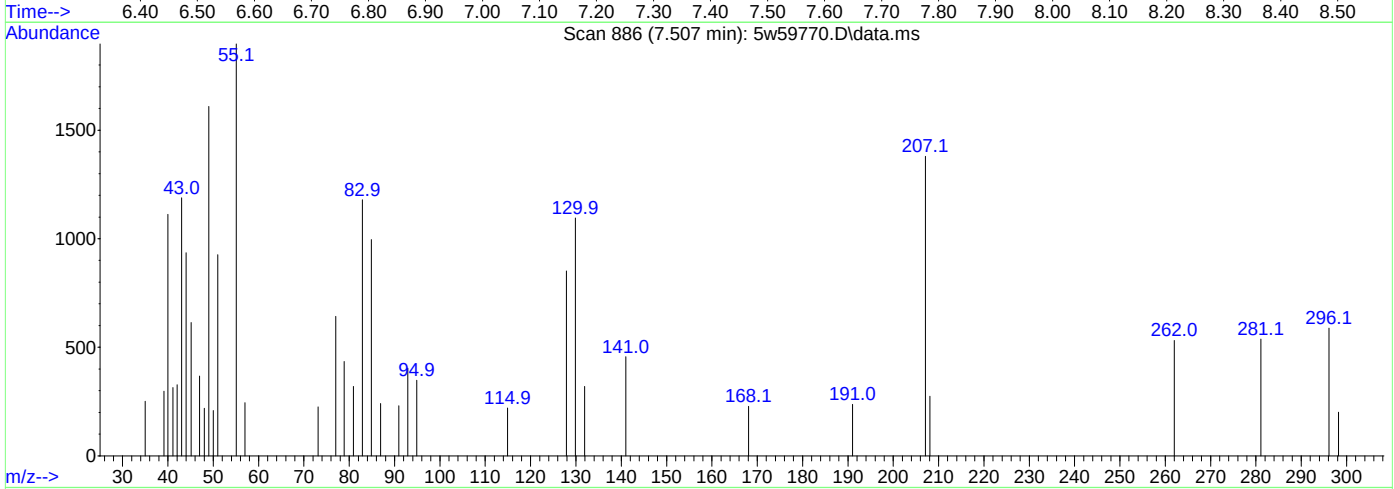
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	829.03#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:51:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.507min (+0.098) 0.08PPBV m

response 6719

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	467597	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2126307	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1045384	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	471090	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1427663	11.16	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.60%				
Target Compounds							Qvalue
2) FREON 115	3.372	119	4412	0.12	PPBV		95
3) FREON 152A	3.445	65	7777	0.24	PPBV		98
4) CHLORODIFLUOROMETHANE	3.482	67	3190	0.21	PPBV		100
5) CHLOROTRIFLUOROETHENE	3.506	116	14712	0.20	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	29673	0.22	PPBV		99
7) PROPYLENE	3.506	41	8750	0.24	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	25496	0.24	PPBV		98
9) FREON 114	3.733	85	30048	0.24	PPBV		100
10) CHLOROMETHANE	3.665	52	3463	0.25	PPBV	#	84
11) VINYL CHLORIDE	3.818	62	10347	0.23	PPBV		91
12) 1,3-BUTADIENE	3.916	54	6663	0.25	PPBV		93
13) n-BUTANE	3.947	43	10741	0.25	PPBV	#	93
14) BROMOMETHANE	4.106	94	10837	0.23	PPBV		77
15) CHLOROETHANE	4.228	64	5570	0.26	PPBV		90
16) DICHLOROFLUOROMETHANE	4.289	67	22344	0.23	PPBV		99
17) ACETONITRILE	4.510	41	6047	0.24	PPBV	#	74
18) ACROLEIN	4.595	56	3414m	0.24	PPBV		
19) FREON 123	4.595	83	25775m	0.24	PPBV		
20) FREON 123A	4.638	117	14980	0.23	PPBV		96
21) TRICHLOROFLUOROMETHANE	4.797	101	26063	0.22	PPBV		93
22) ISOPROPYL ALCOHOL	4.926	45	22029	0.25	PPBV		87
23) ACETONE	4.718	58	6066	0.34	PPBV		100
24) PENTANE	5.079	42	10859	0.25	PPBV		93
25) IODOMETHANE	5.256	142	32697	0.22	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.323	96	10700	0.22	PPBV		95
27) CARBON DISULFIDE	5.678	76	29507	0.22	PPBV		92
28) ETHANOL	4.344	45	12121	0.73	PPBV		98
29) BROMOETHENE	4.485	106	10750	0.22	PPBV		92
30) ACRYLONITRILE	5.085	52	7876	0.26	PPBV		94
31) METHYLENE CHLORIDE	5.427	84	11602	0.27	PPBV		97
32) 3-CHLOROPROPENE	5.525	76	4977	0.22	PPBV		98
33) FREON 113	5.647	151	17747	0.21	PPBV		95
34) TRANS-1,2-DICHLOROETHY...	6.247	96	11590	0.22	PPBV		85
35) TERTIARY BUTYL ALCOHOL	5.464	59	19541	0.20	PPBV		97
36) METHYL TERTIARY BUTYL ...	6.541	73	29335	0.23	PPBV		89
37) TETRAHYDROFURAN	7.954	72	3172	0.16	PPBV	#	59
38) HEXANE	7.385	57	18650	0.26	PPBV	#	77
39) VINYL ACETATE	6.620	86	653	0.09	PPBV	#	1
40) 1,1-DICHLOROETHANE	6.431	63	21909	0.23	PPBV		96
41) METHYL ETHYL KETONE	6.902	72	2781	0.14	PPBV	#	80
42) cis-1,2-DICHLOROETHYLENE	7.207	96	12027	0.22	PPBV		91
43) DIISOPROPYL ETHER	7.440	59	3909	0.18	PPBV	#	53
44) ETHYL ACETATE	7.501	61	2309m	0.15	PPBV		
45) METHYL ACRYLATE	7.489	55	14366m	0.17	PPBV		
46) CHLOROFORM	7.483	83	23090	0.22	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	18643	0.22	PPBV		100
48) 1,1,1-TRICHLOROETHANE	8.413	97	24304	0.22	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	25552	0.21	PPBV		100
50)	1,2-DICHLOROETHANE	8.186	62	16304	0.22	PPBV		94
52)	BENZENE	8.859	78	30072	0.21	PPBV		99
53)	CYCLOHEXANE	9.110	84	12037	0.20	PPBV		94
54)	2,3-DIMETHYLPENTANE	9.355	71	5961	0.20	PPBV		91
55)	TRICHLOROETHYLENE	9.899	95	14290	0.19	PPBV		99
56)	1,2-DICHLOROPROPANE	9.667	63	12562	0.20	PPBV		99
57)	DIBROMOMETHANE	9.642	174	16323	0.20	PPBV		98
58)	ETHYL ACRYLATE	9.801	55	11494m	0.10	PPBV		
59)	BROMODICHLOROMETHANE	9.856	83	25637	0.20	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	49437	0.21	PPBV		95
61)	1,4-DIOXANE	9.997	88	7396	0.22	PPBV	#	1
62)	HEPTANE	10.193	43	19280	0.24	PPBV		92
63)	METHYL METHACRYLATE	10.175	69	8860	0.18	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.890	58	6548	0.14	PPBV	#	70
65)	cis-1,3-DICHLOROPROPENE	10.774	75	20672	0.20	PPBV		93
66)	TOLUENE	11.735	92	21289	0.19	PPBV		93
67)	1,3-DICHLOROPROPANE	11.777	76	18562m	0.21	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.312	75	19068	0.20	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.465	83	11660	0.19	PPBV		99
71)	2-HEXANONE	12.169	58	9038m	0.16	PPBV		
72)	ETHYL METHACRYLATE	12.083	69	14602	0.19	PPBV	#	86
73)	TETRACHLOROETHYLENE	12.879	164	16678	0.23	PPBV		96
74)	DIBROMOCHLOROMETHANE	12.163	129	26574	0.21	PPBV		99
75)	1,2-DIBROMOETHANE	12.414	107	22241	0.22	PPBV		100
76)	OCTANE	12.750	43	23489	0.25	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	17410	0.21	PPBV		95
78)	CHLOROBENZENE	13.588	112	29927	0.23	PPBV		100
79)	ETHYLBENZENE	14.004	91	48060	0.24	PPBV		96
80)	m,p-XYLENE	14.188	106	36141	0.45	PPBV		97
81)	o-XYLENE	14.689	106	17278	0.23	PPBV		90
82)	STYRENE	14.598	104	26105	0.21	PPBV		86
83)	NONANE	14.934	43	25033	0.26	PPBV		94
84)	BROMOFORM	14.261	173	25461	0.20	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.696	83	30281	0.23	PPBV		97
87)	1,2,3-TRICHLOROPROPANE	14.836	75	24248	0.24	PPBV		93
88)	ISOPROPYLBENZENE	15.307	105	52329	0.23	PPBV		98
89)	BROMOBENZENE	15.393	77	27933	0.24	PPBV		92
90)	2-CHLOROTOLUENE	15.785	126	13598	0.21	PPBV		86
91)	n-PROPYLBENZENE	15.827	120	13388	0.21	PPBV		99
92)	4-ETHYLTOLUENE	15.974	105	48336	0.22	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.048	105	48446	0.26	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.219	118	19855	0.19	PPBV		97
95)	tert-BUTYLBENZENE	16.433	134	8909	0.22	PPBV	#	87
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	44191	0.24	PPBV		99
97)	m-DICHLOROBENZENE	16.592	146	29601	0.20	PPBV		98
98)	BENZYL CHLORIDE	16.586	91	33418	0.19	PPBV		96
99)	p-DICHLOROBENZENE	16.659	146	36208	0.24	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	11583	0.23	PPBV		91
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	45724	0.24	PPBV		94
102)	p-ISOPROPYLTOLUENE	16.867	134	13423	0.23	PPBV		93
103)	o-DICHLOROBENZENE	16.990	146	31360	0.22	PPBV		98
104)	n-BUTYLBENZENE	17.271	134	12074	0.20	PPBV	#	83
105)	HEXACHLOROETHANE	17.608	117	22122	0.23	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	30270	0.23	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.898	180	27720	0.21	PPBV		97
108)	NAPHTHALENE	18.678	128	62904	0.22	PPBV		97
110)	TVHC as equiv Pentane	5.079	TIC	73523	0.25	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

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

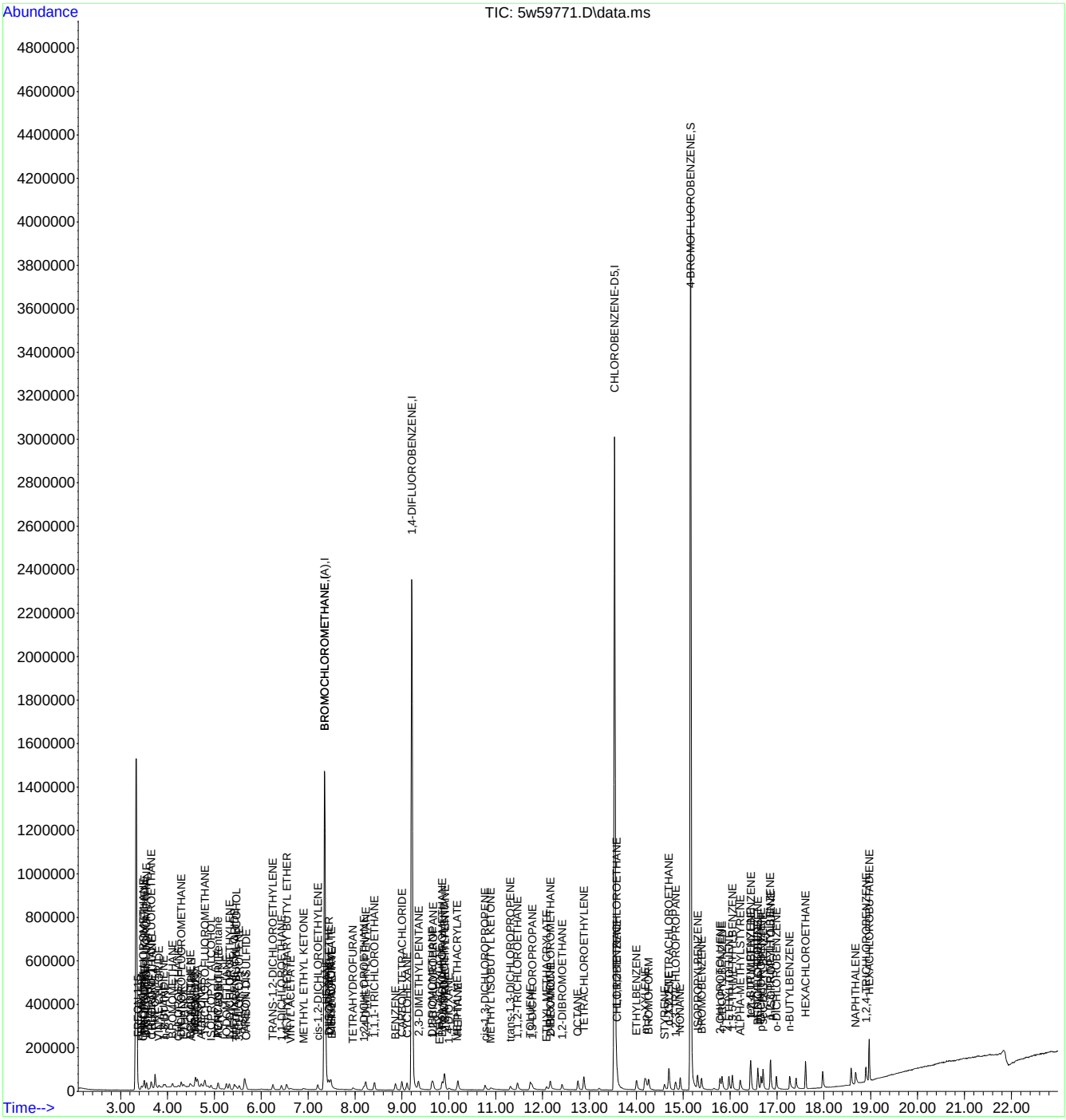
(#) = qualifier out of range (m) = manual integration (+) = signals summed

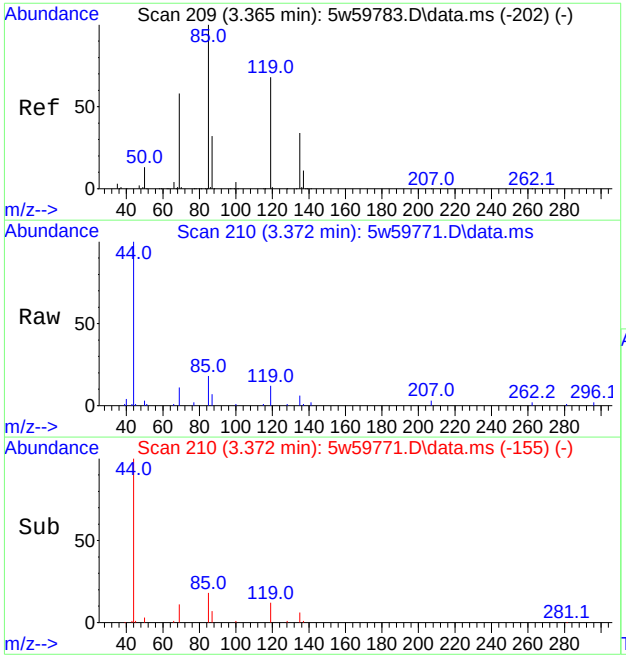
7.7.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

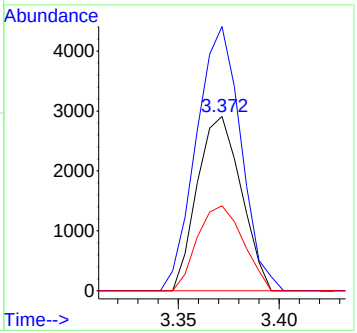


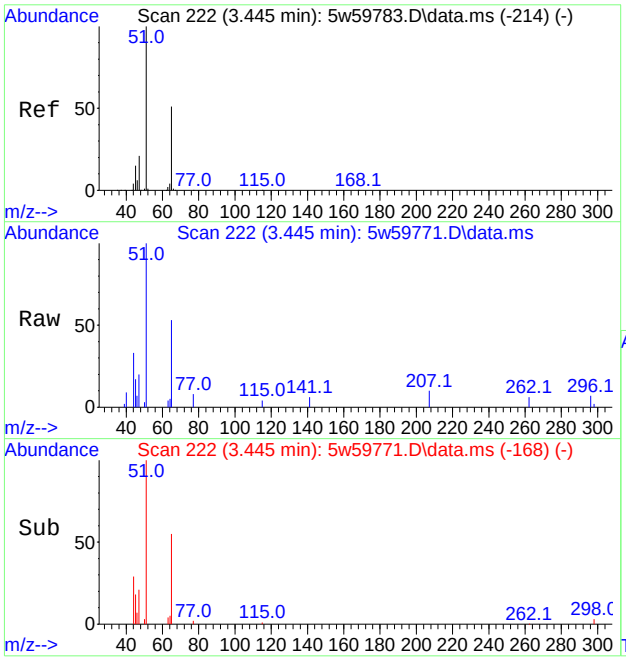


#2
FREON 115
Concen: 0.12 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:119 Resp: 4412

Ion	Ratio	Lower	Upper
119	100		
85	153.9	116.2	176.2
135	50.8	20.6	80.6

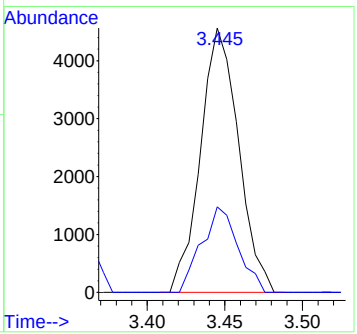


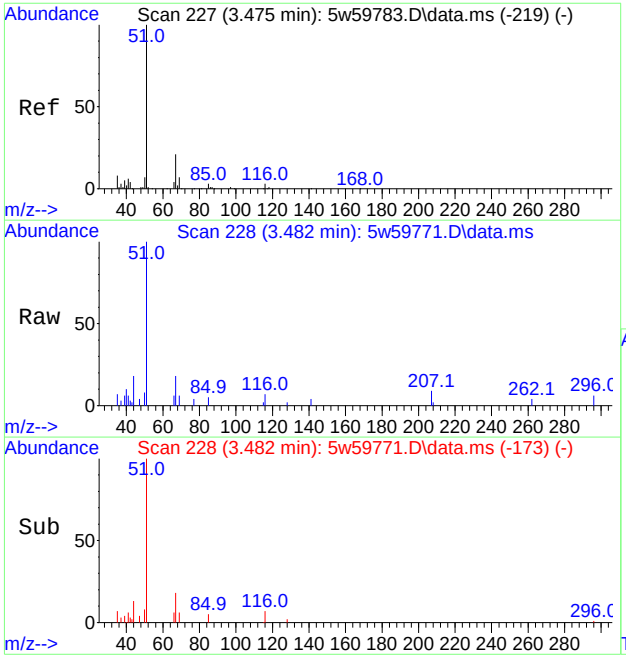


#3
FREON 152A
Concen: 0.24 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 7777

Ion	Ratio	Lower	Upper
65	100		
45	30.9	0.0	60.0

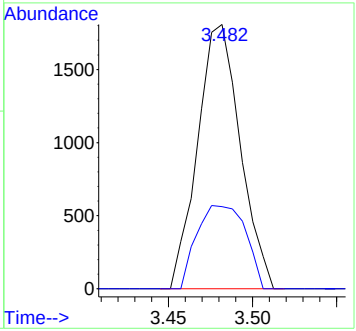


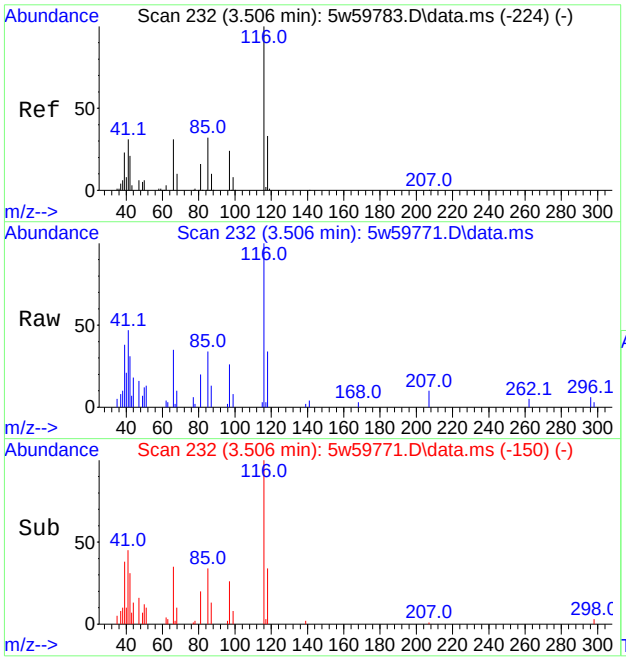


#4
CHLORODIFLUOROMETHANE
Concen: 0.21 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 3190

Ion	Ratio	Lower	Upper
67	100		
69	31.1	1.0	61.0

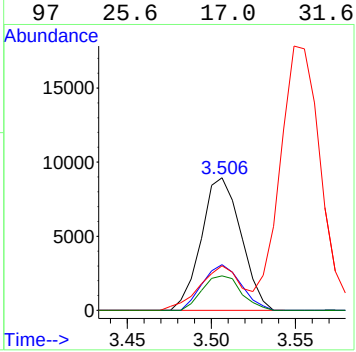




#5
CHLOROTRIFLUOROETHENE
Concen: 0.20 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

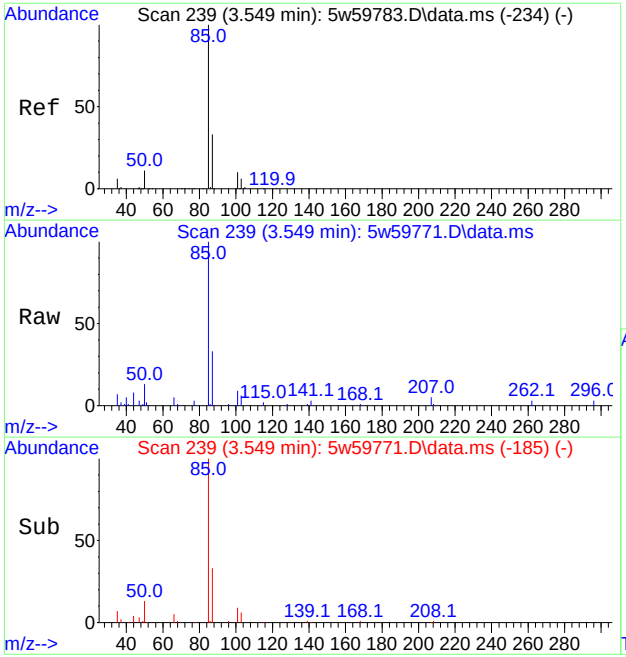
Tgt Ion:116 Resp: 14712

Ion	Ratio	Lower	Upper
116	100		
118	33.6	22.9	42.5
85	35.8	23.7	44.1
97	25.6	17.0	31.6



7.7.3

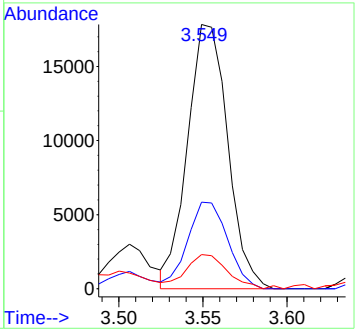
7

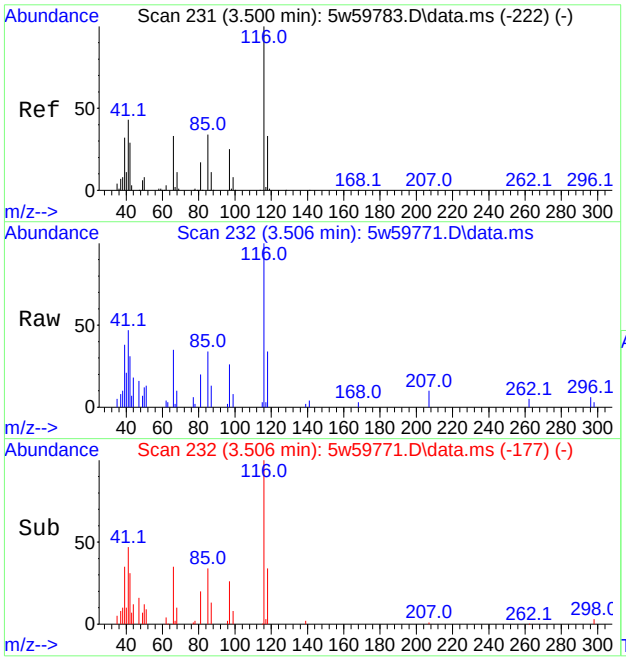


#6
DICHLORODIFLUOROMETHANE
Concen: 0.22 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 29673

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	13.3	0.0	41.7

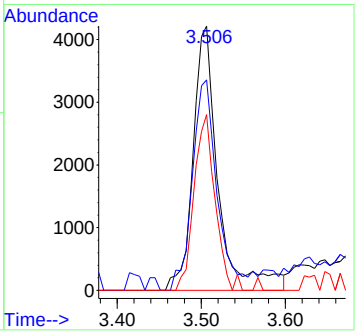


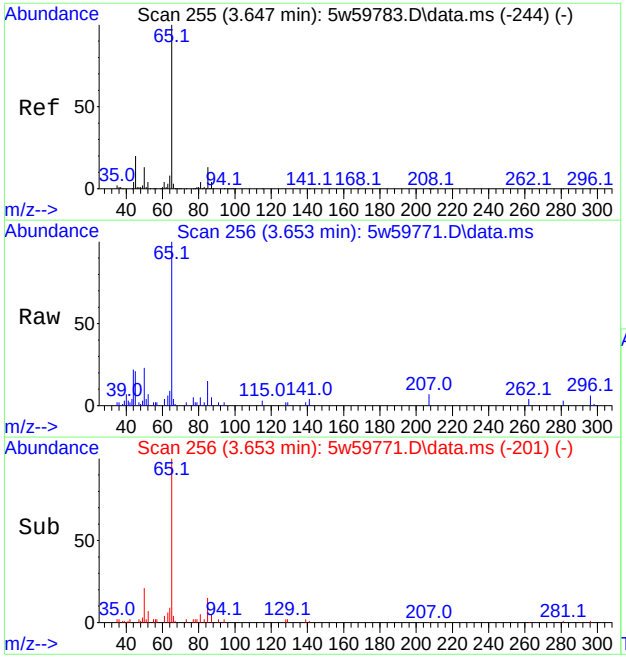


#7
PROPYLENE
Concen: 0.24 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 8750

Ion	Ratio	Lower	Upper
41	100		
39	85.7	45.1	105.1
42	55.7	36.3	96.3

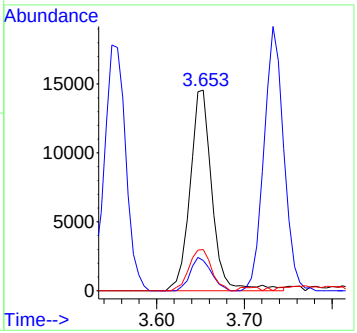


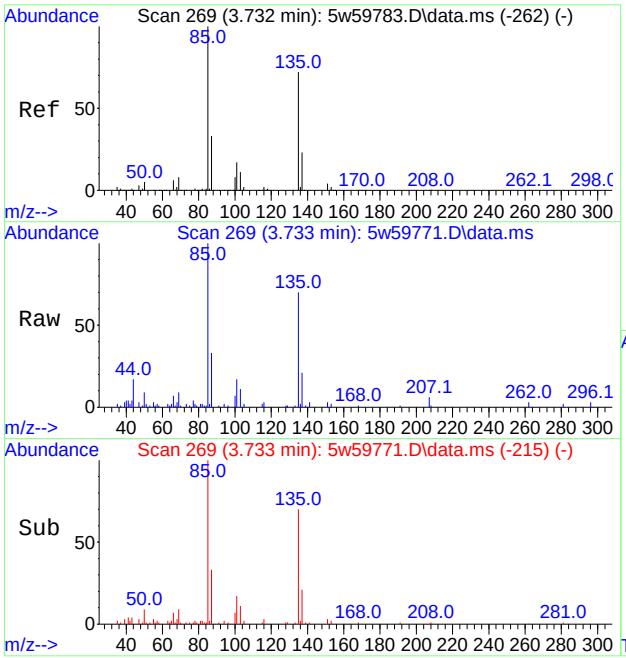


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.24 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 25496

Ion	Ratio	Lower	Upper
65	100		
85	15.6	11.5	21.3
45	21.1	14.0	26.0

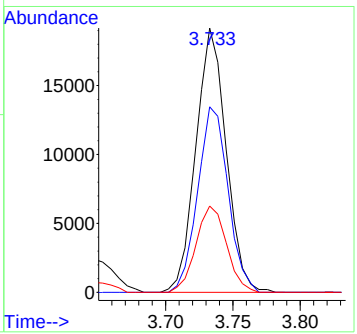


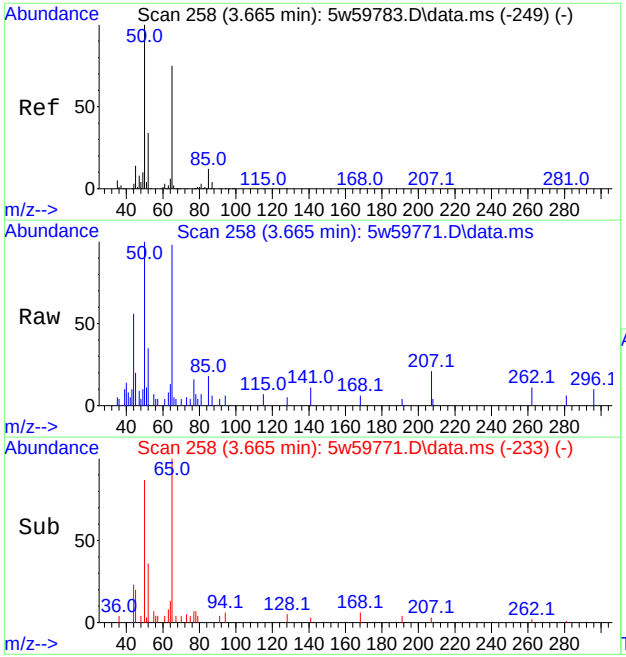


#9
FREON 114
Concen: 0.24 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 30048

Ion	Ratio	Lower	Upper
85	100		
135	70.7	40.5	100.5
87	33.1	3.0	63.0

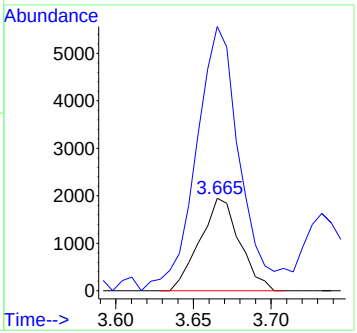


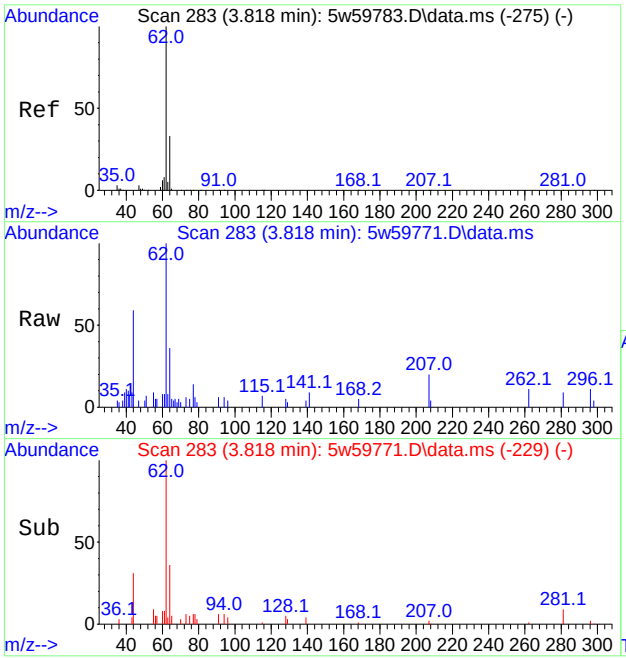


#10
CHLOROMETHANE
Concen: 0.25 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 3463

Ion	Ratio	Lower	Upper
52	100		
50	267.4	267.9	327.9#

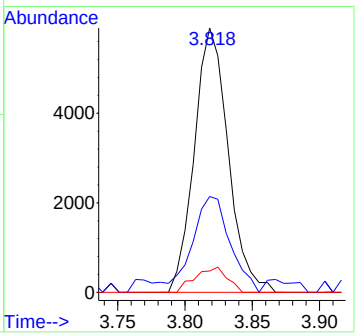


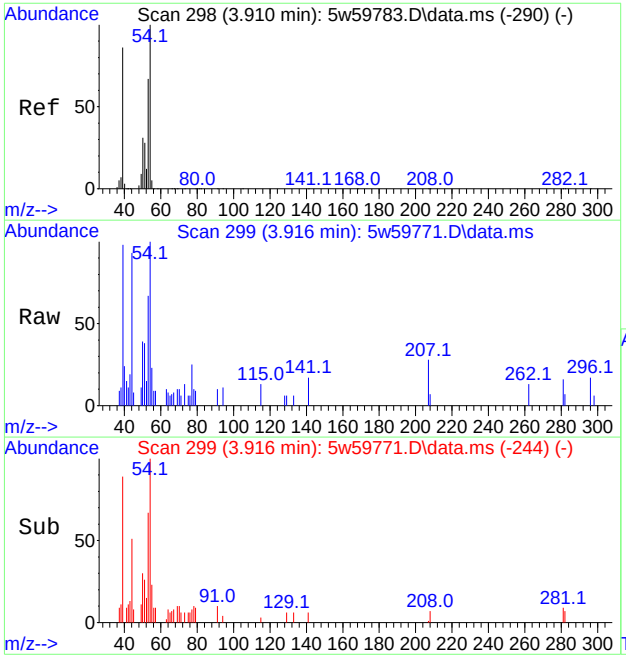


#11
VINYL CHLORIDE
Concen: 0.23 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 10347

Ion	Ratio	Lower	Upper
62	100		
64	39.8	3.6	63.6
61	9.1	0.0	38.2

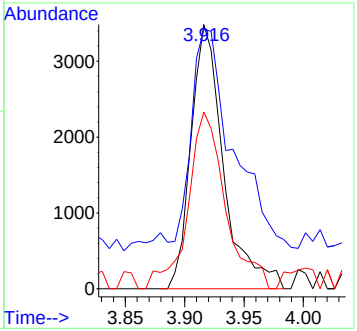


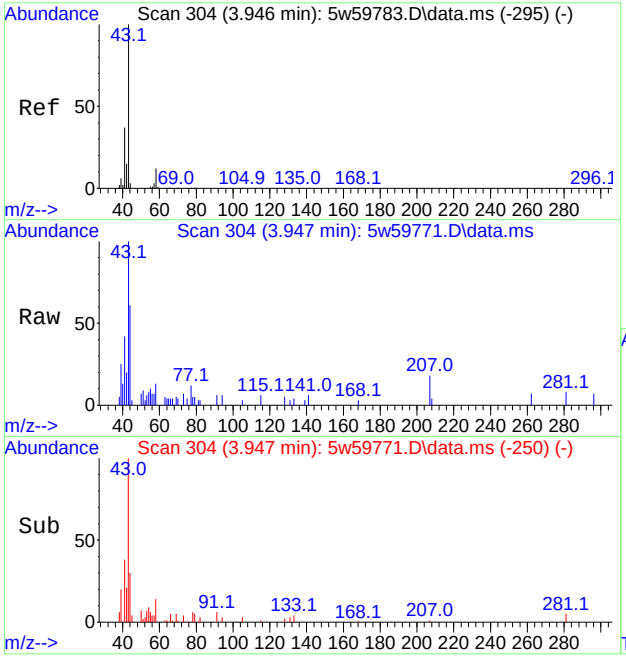


#12
1,3-BUTADIENE
Concen: 0.25 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 54 Resp: 6663

Ion	Ratio	Lower	Upper
54	100		
39	104.6	82.0	142.0
53	76.7	40.2	100.2

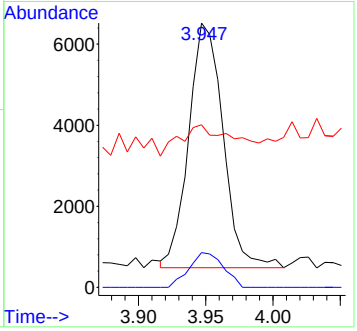


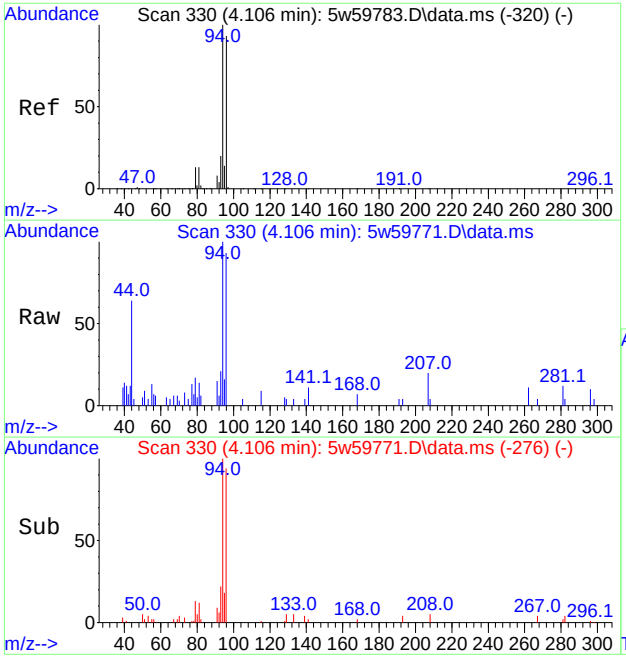


#13
n-BUTANE
Concen: 0.25 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 10741

Ion	Ratio	Lower	Upper
43	100		
58	14.2	0.0	42.6
44	0.0	0.0	34.9

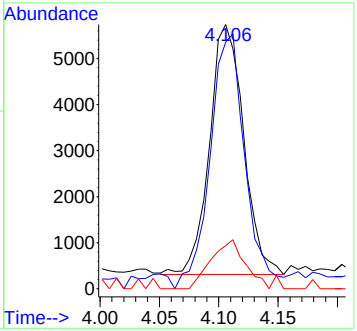


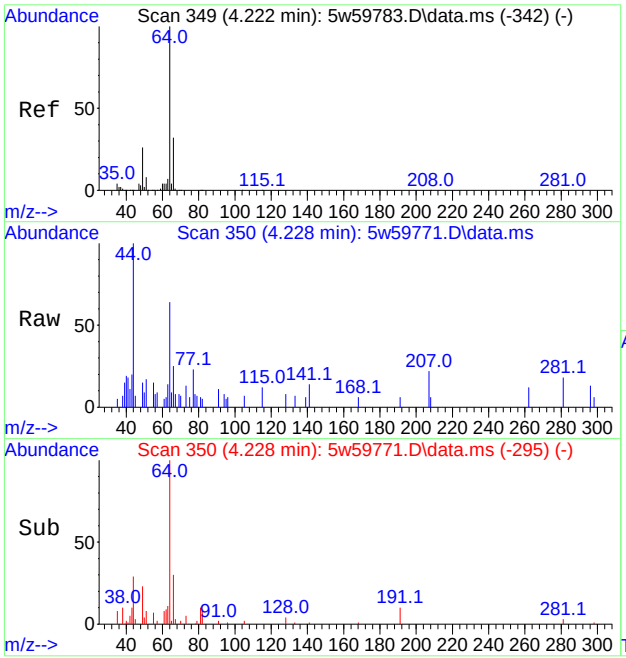


#14
BROMOMETHANE
Concen: 0.23 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 94 Resp: 10837

Ion	Ratio	Lower	Upper
94	100		
96	119.6	65.3	125.3
95	19.5	0.0	44.1

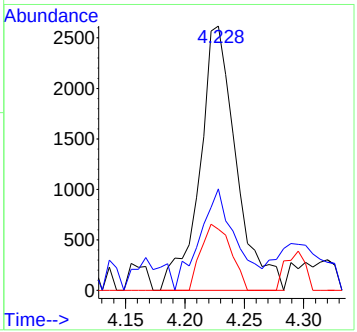


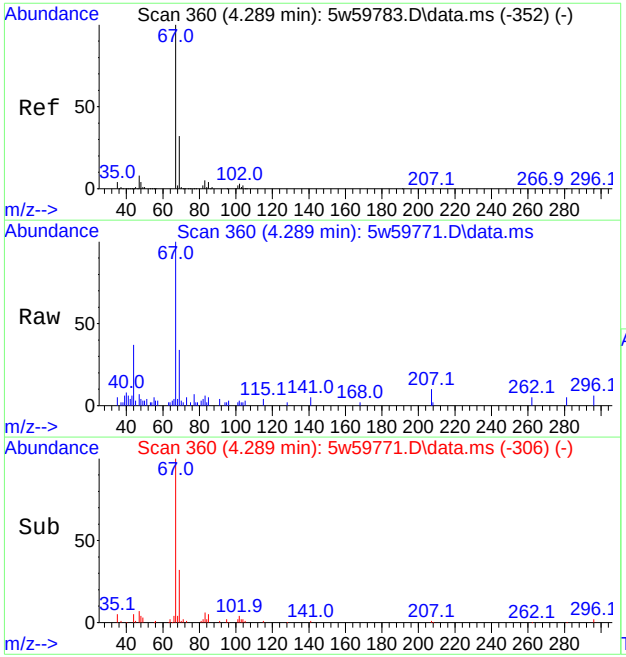


#15
CHLOROETHANE
Concen: 0.26 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 64 Resp: 5570

Ion	Ratio	Lower	Upper
64	100		
66	38.9	3.1	63.1
49	20.5	0.0	55.3

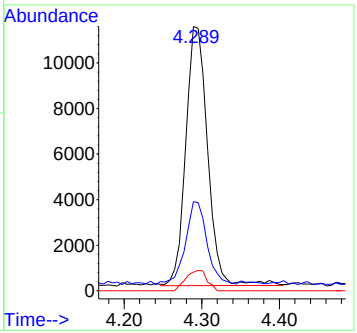


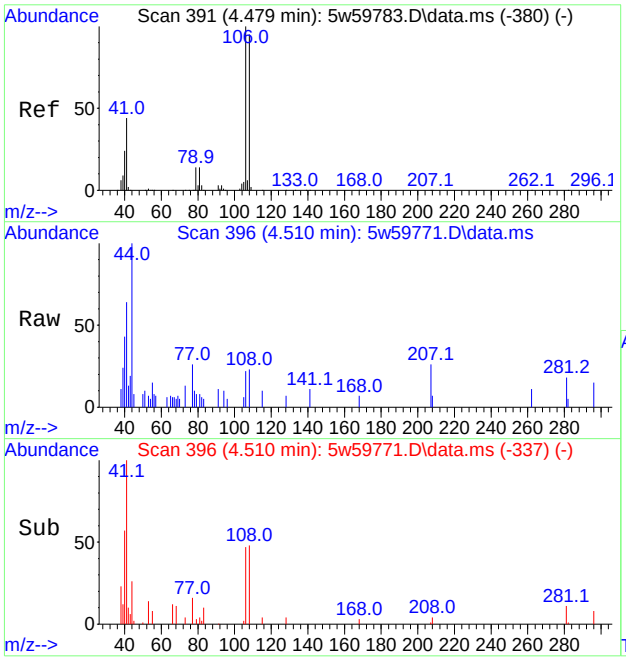


#16
DICHLOROFLUOROMETHANE
Concen: 0.23 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 22344

Ion	Ratio	Lower	Upper
67	100		
69	31.7	22.7	42.3
47	7.6	5.6	10.4

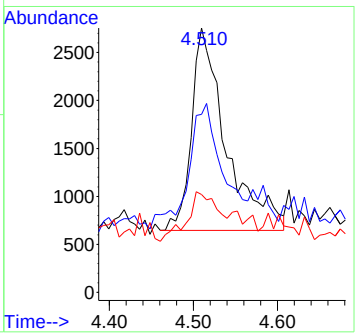


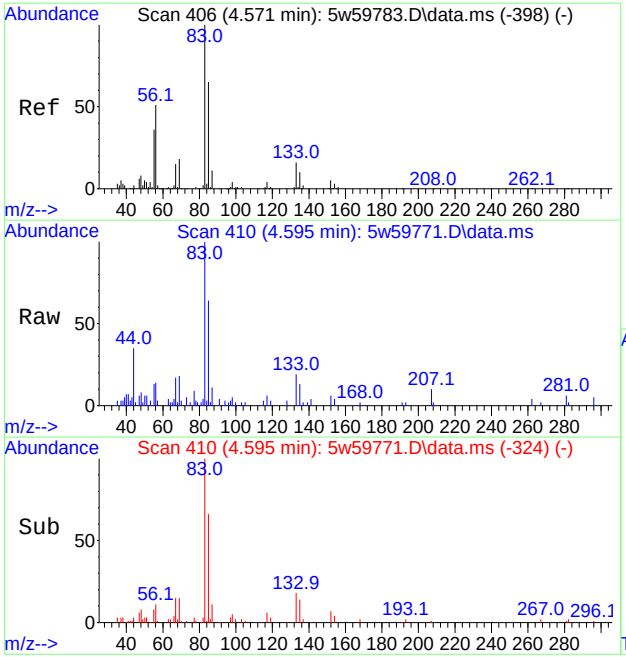


#17
ACETONITRILE
Concen: 0.24 PPBV
RT: 4.510 min Scan# 396
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 6047

Ion	Ratio	Lower	Upper
41	100		
40	72.0	37.9	70.5#
39	31.5	13.4	24.8#

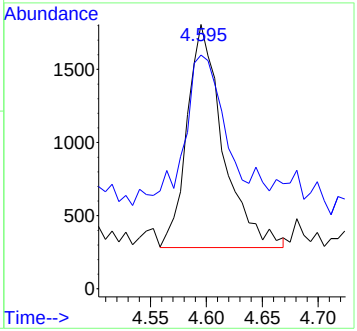


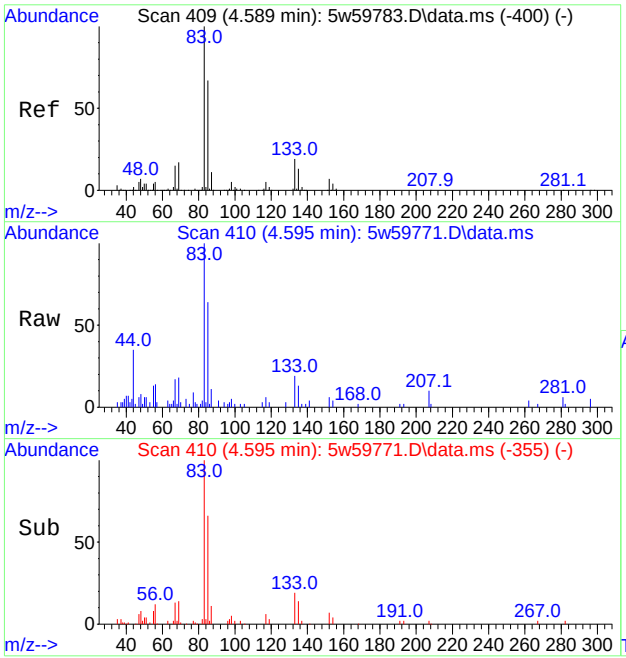


#18
ACROLEIN
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 56 Resp: 3414

Ion	Ratio	Lower	Upper
56	100		
55	99.6	46.6	86.6#

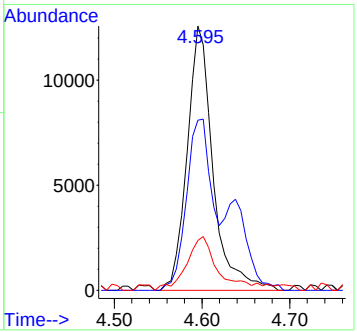


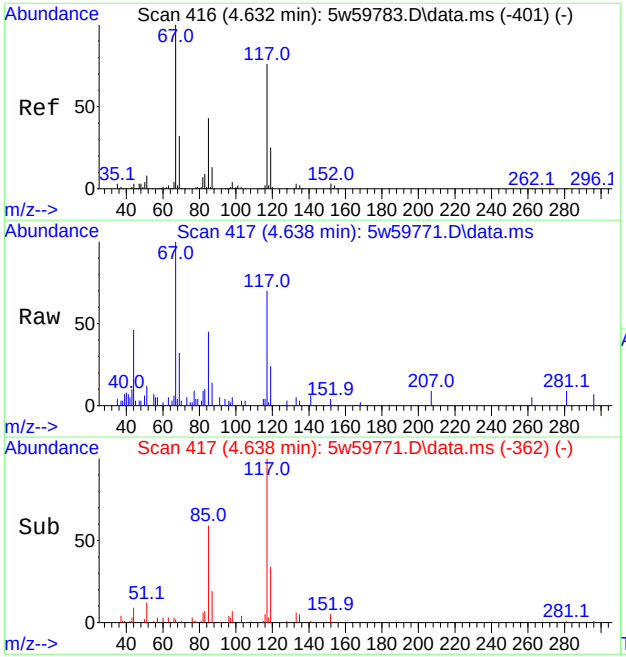


#19
FREON 123
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25775

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.0	94.0
133	26.8	0.0	50.7

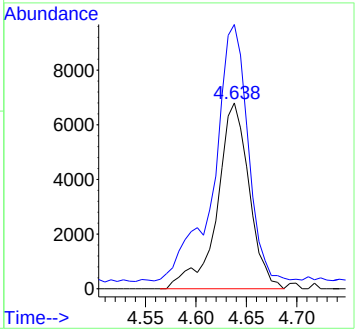


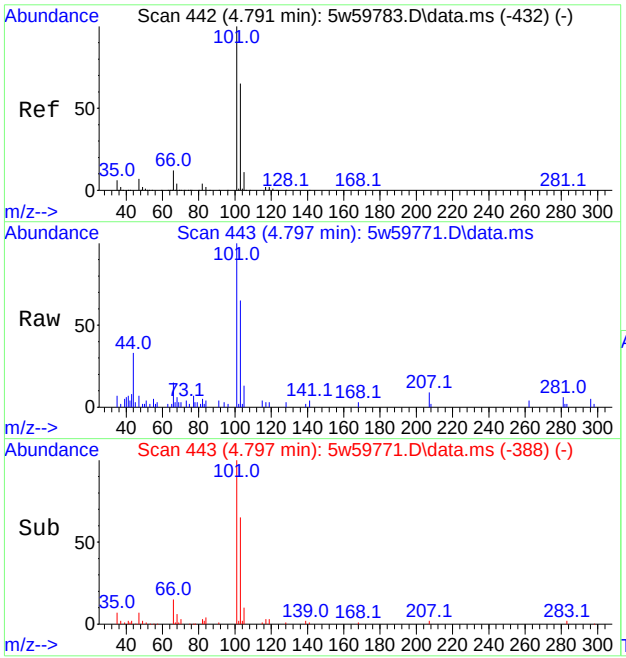


#20
FREON 123A
Concen: 0.23 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 14980

Ion	Ratio	Lower	Upper
117	100		
67	149.3	114.6	174.6

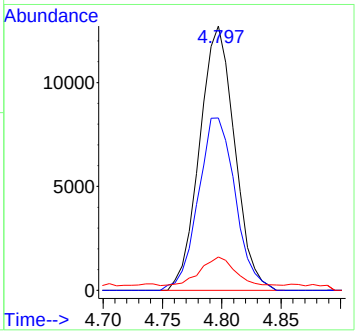


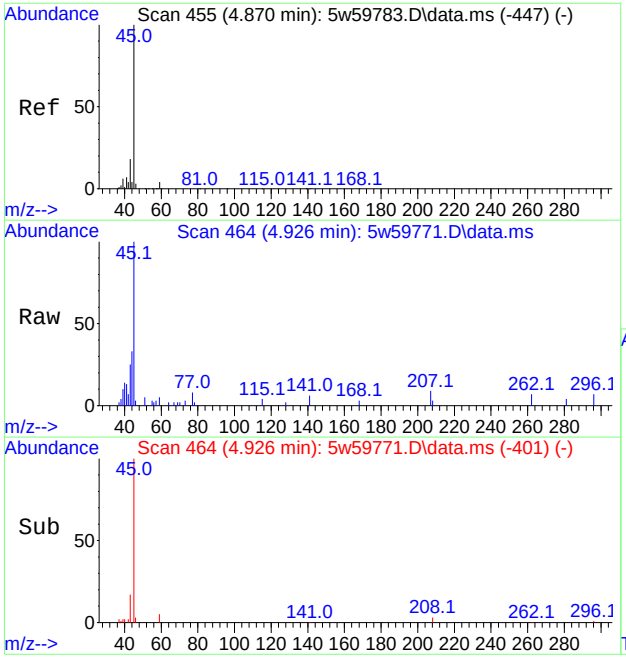


#21
TRICHLOROFLUOROMETHANE
Concen: 0.22 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:101 Resp: 26063

Ion	Ratio	Lower	Upper
101	100		
103	69.0	35.0	95.0
105	17.9	0.0	40.7

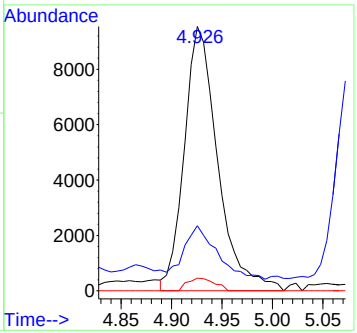


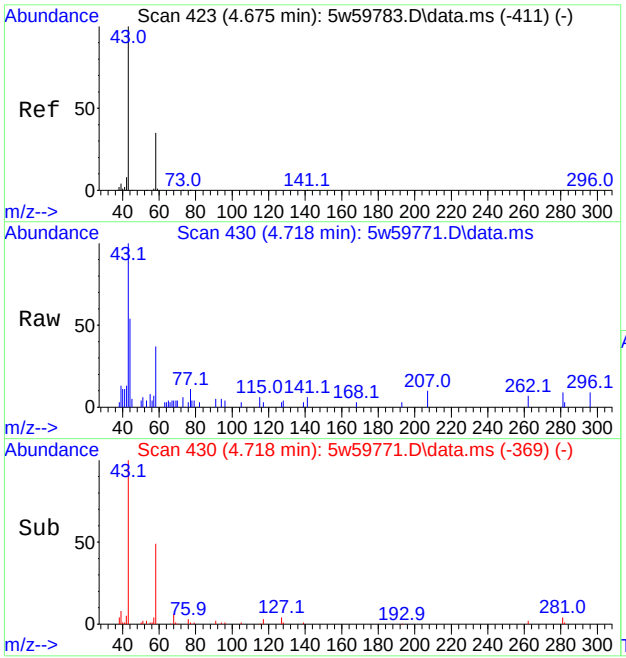


#22
ISOPROPYL ALCOHOL
Concen: 0.25 PPBV
RT: 4.926 min Scan# 464
Delta R.T. 0.056 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 22029

Ion	Ratio	Lower	Upper
45	100		
43	24.6	0.0	47.8
59	4.8	0.0	34.1

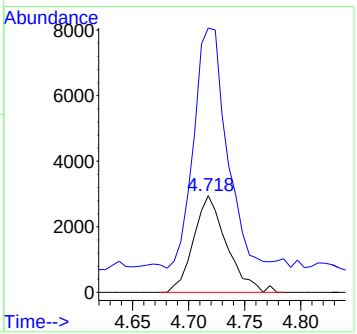


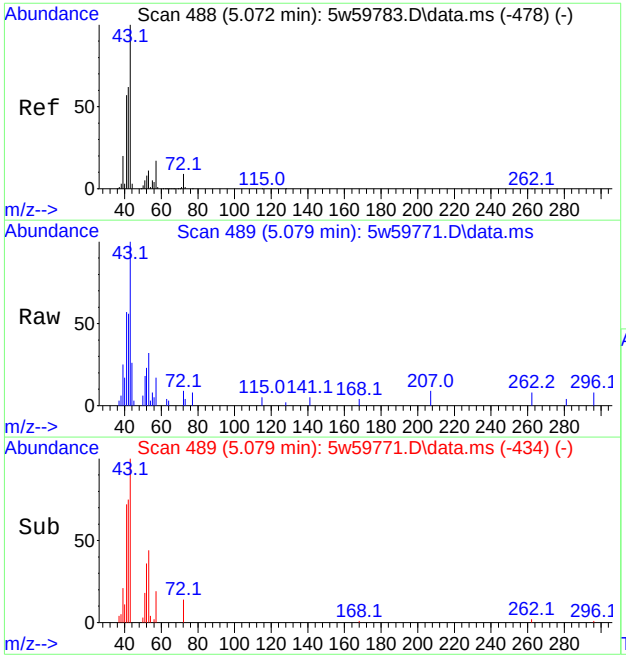


#23
ACETONE
Concen: 0.34 PPBV
RT: 4.718 min Scan# 430
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6066

Ion	Ratio	Lower	Upper
58	100		
43	283.0	252.3	312.3

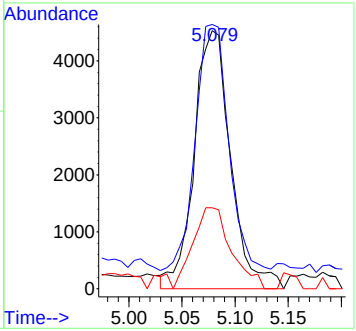


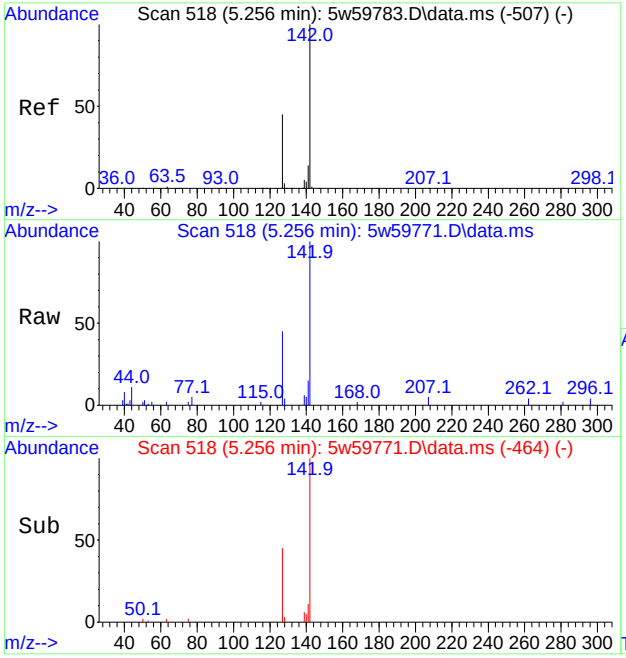


#24
PENTANE
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 42 Resp: 10859

Ion	Ratio	Lower	Upper
42	100		
41	86.3	62.3	122.3
57	32.8	0.0	57.7

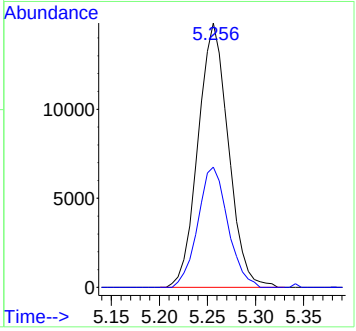


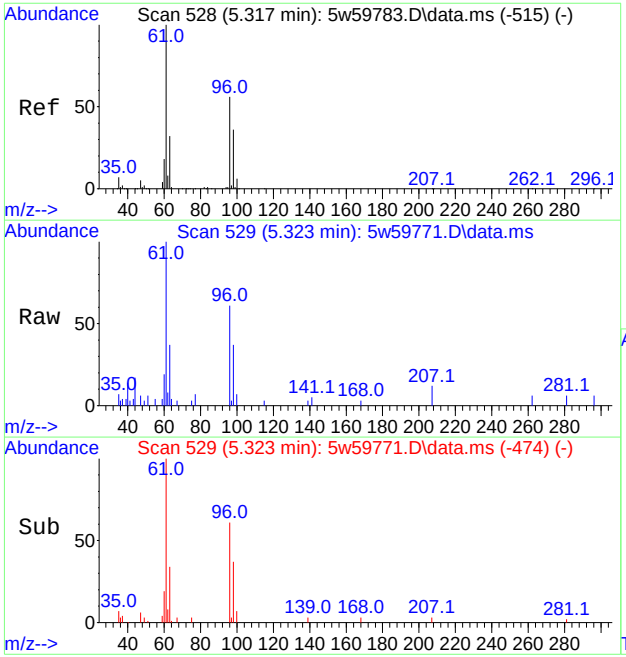


#25
IODOMETHANE
Concen: 0.22 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:142 Resp: 32697

Ion	Ratio	Lower	Upper
142	100		
127	45.0	16.0	76.0

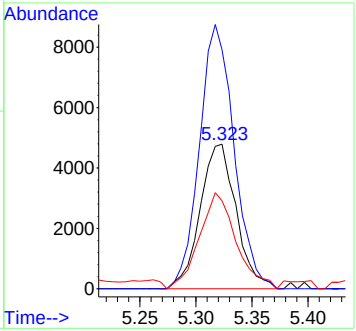


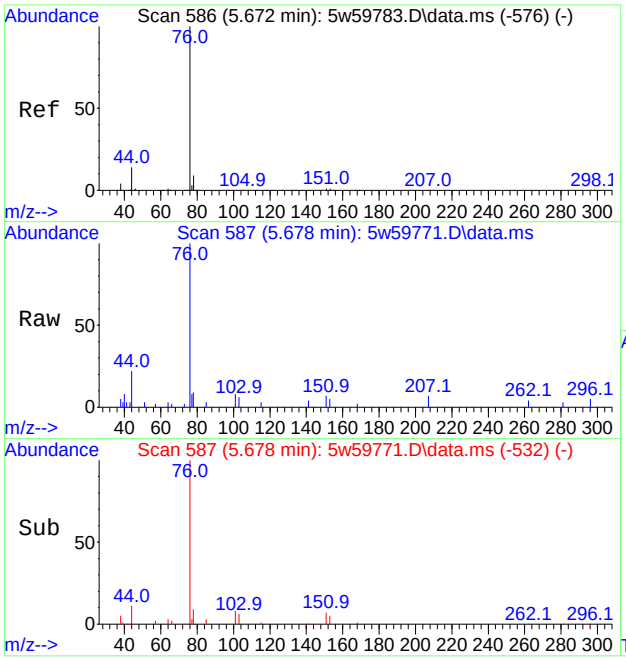


#26
1,1-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 10700

Ion	Ratio	Lower	Upper
96	100		
61	175.5	148.5	208.5
63	67.6	27.4	87.4

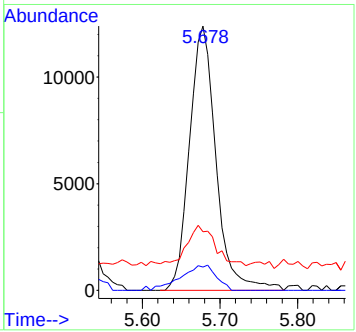


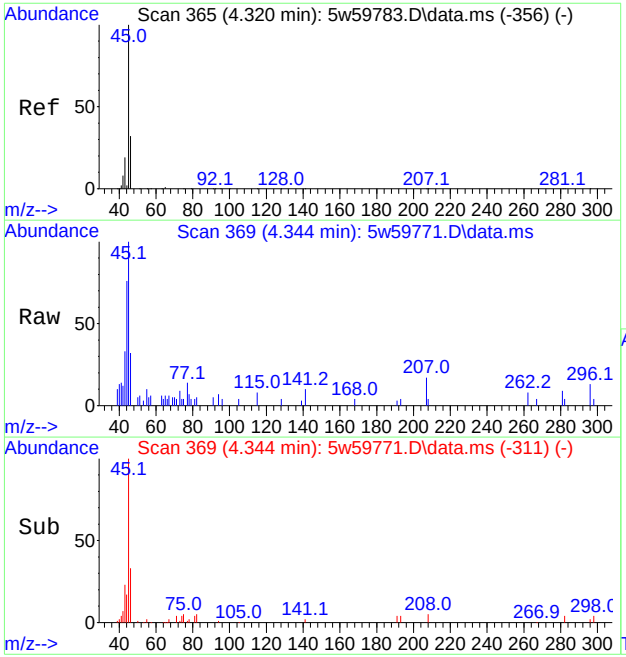


#27
CARBON DISULFIDE
Concen: 0.22 PPBV
RT: 5.678 min Scan# 587
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 29507

Ion	Ratio	Lower	Upper
76	100		
78	12.8	0.0	41.5
44	19.7	0.0	44.6

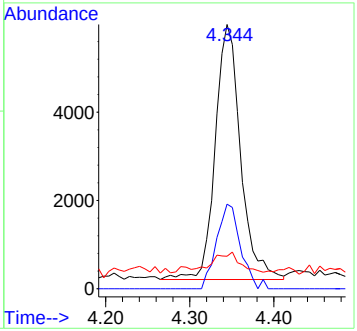


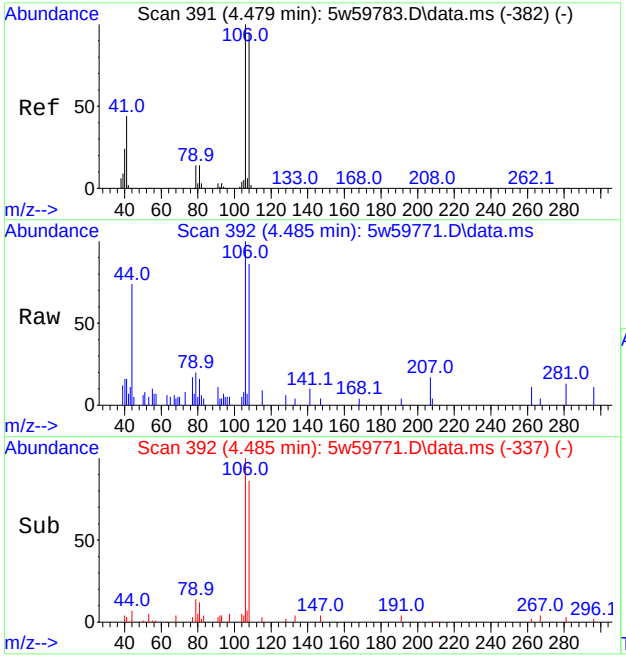


#28
ETHANOL
Concen: 0.73 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 12121

Ion	Ratio	Lower	Upper
45	100		
46	31.3	2.0	62.0
42	10.3	0.0	38.5

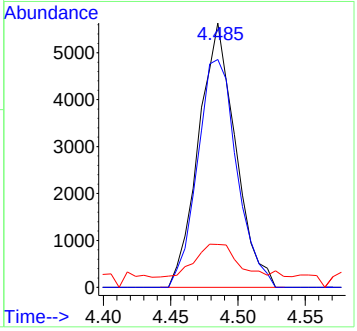


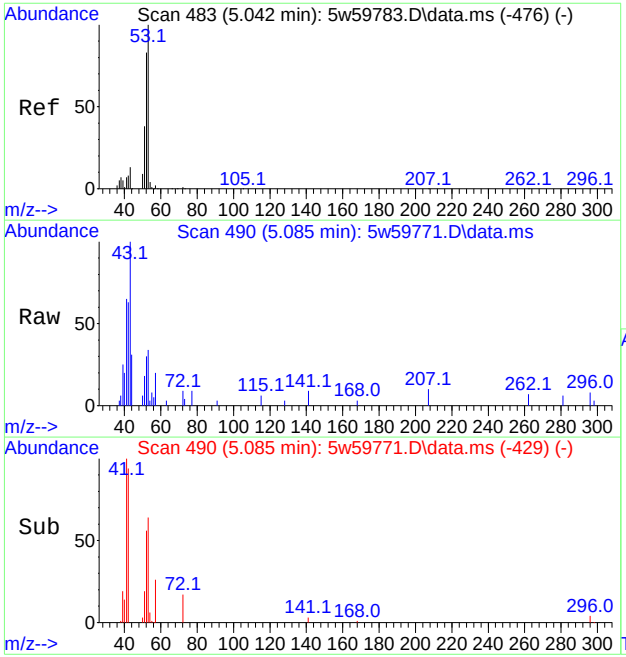


#29
BROMOETHENE
Concen: 0.22 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 10750

Ion	Ratio	Lower	Upper
106	100		
108	92.0	65.6	125.6
81	28.2	0.0	43.9

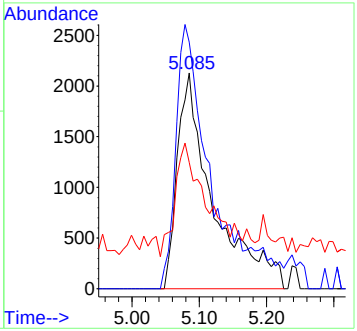


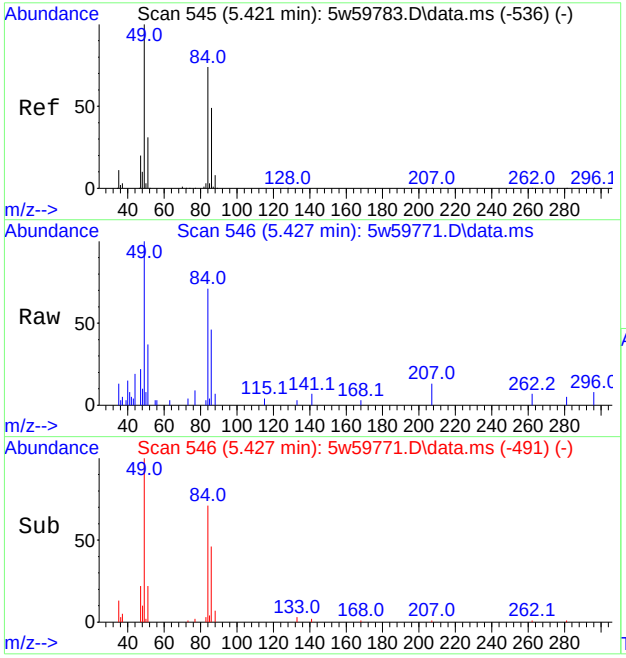


#30
ACRYLONITRILE
Concen: 0.26 PPBV
RT: 5.085 min Scan# 490
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 7876

Ion	Ratio	Lower	Upper
52	100		
53	128.6	85.8	159.4
51	50.1	32.3	60.1

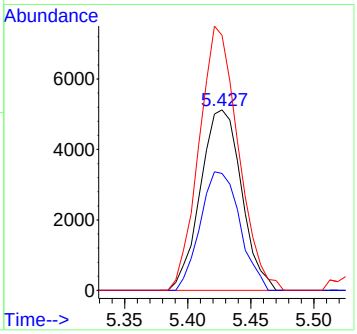


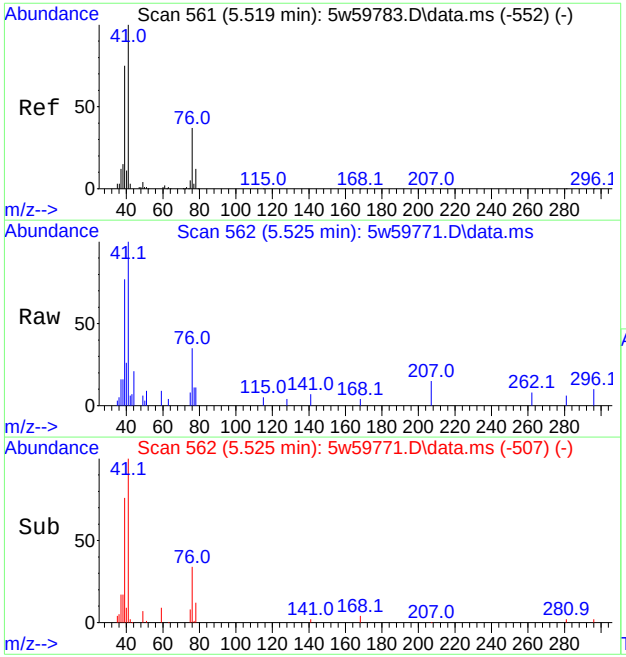


#31
METHYLENE CHLORIDE
Concen: 0.27 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 11602

Ion	Ratio	Lower	Upper
84	100		
86	63.2	35.2	95.2
49	139.5	105.3	165.3

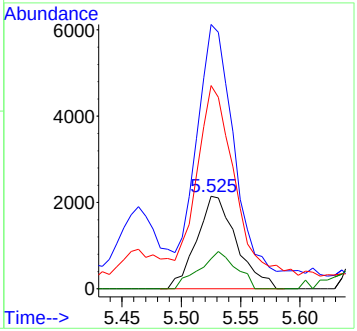


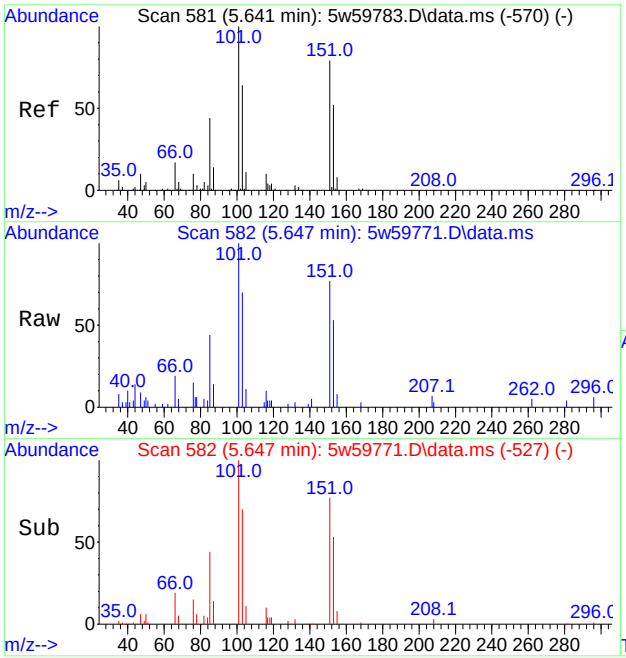


#32
3-CHLOROPROPENE
Concen: 0.22 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 4977

Ion	Ratio	Lower	Upper
76	100		
41	272.3	240.8	300.8
39	208.6	173.6	233.6
78	37.2	2.8	62.8

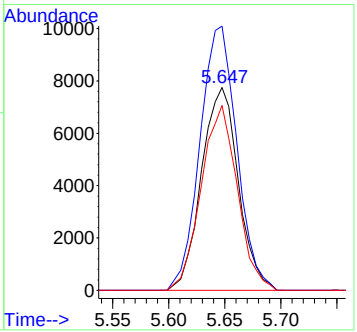


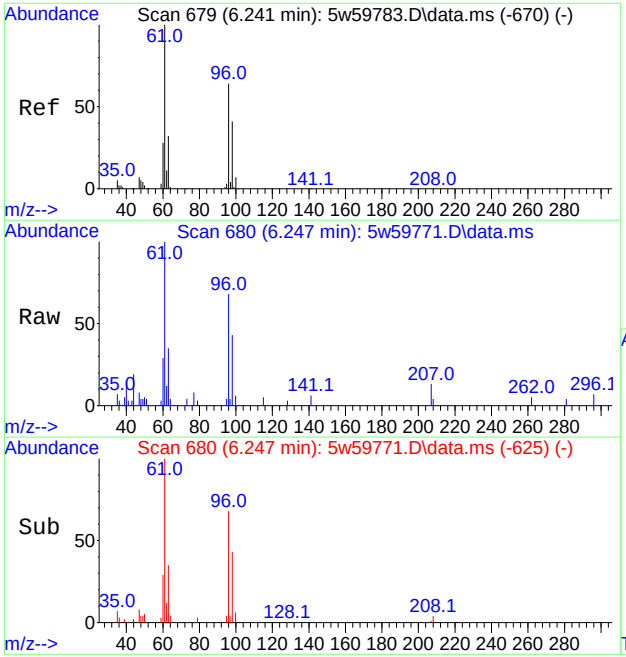


#33
FREON 113
Concen: 0.21 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:151 Resp: 17747

Ion	Ratio	Lower	Upper
151	100		
101	130.5	97.5	157.5
103	89.3	52.5	112.5

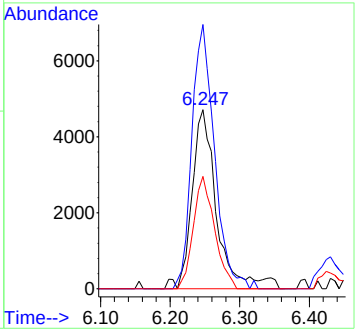


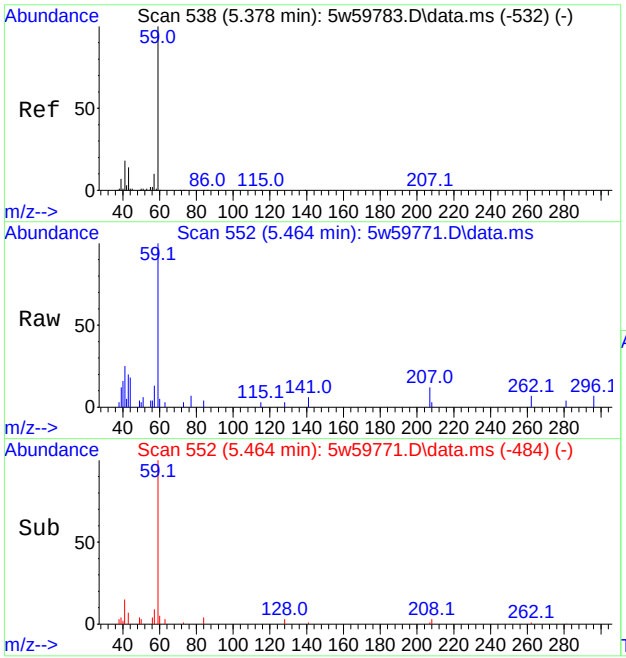


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 11590

Ion	Ratio	Lower	Upper
96	100		
61	135.4	126.4	186.4
98	54.1	34.1	94.1

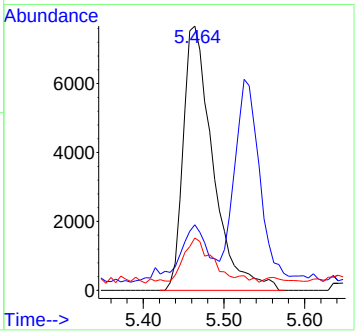


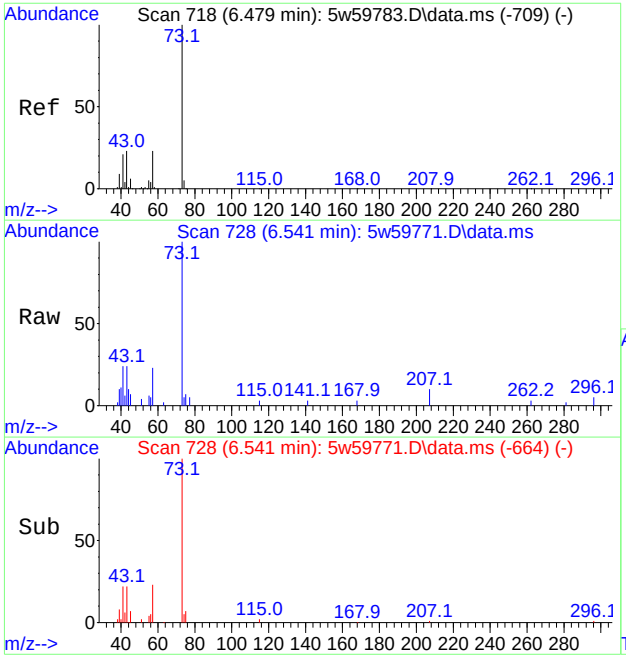


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.20 PPBV
RT: 5.464 min Scan# 552
Delta R.T. 0.086 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 19541

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	16.8	0.0	44.1

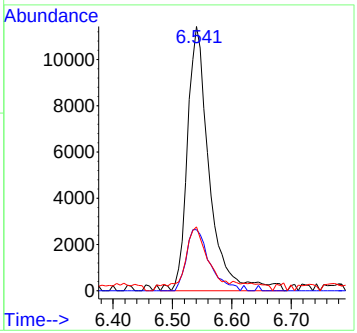


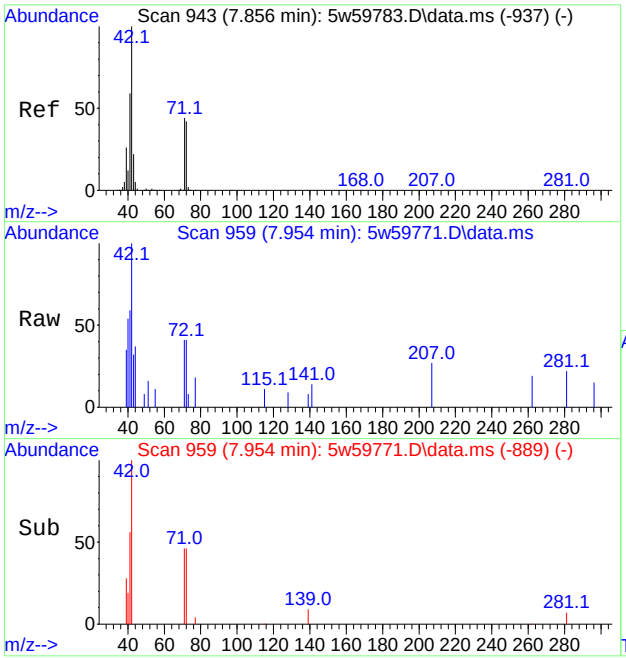


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.23 PPBV
RT: 6.541 min Scan# 728
Delta R.T. 0.062 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 73 Resp: 29335

Ion	Ratio	Lower	Upper
73	100		
57	24.5	0.0	53.1
41	30.1	0.0	50.6

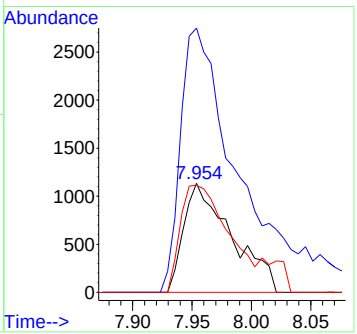


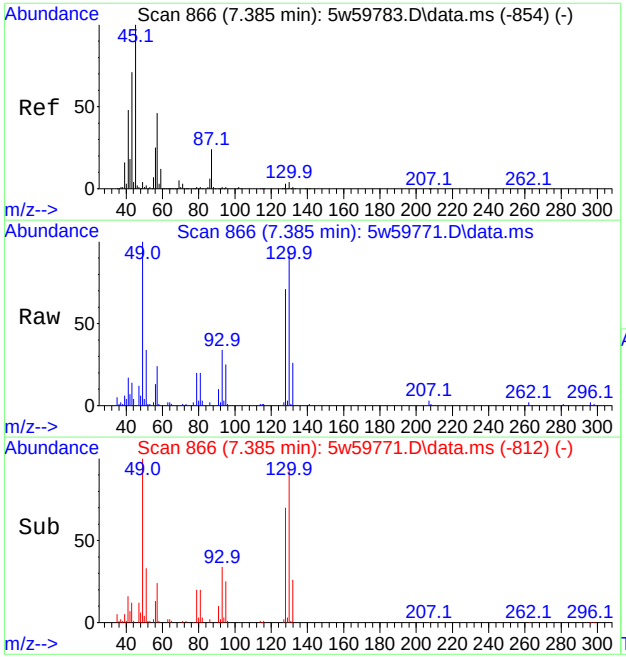


#37
TETRAHYDROFURAN
Concen: 0.16 PPBV
RT: 7.954 min Scan# 959
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 3172

Ion	Ratio	Lower	Upper
72	100		
42	320.8	202.4	262.4#
71	114.2	71.1	131.1

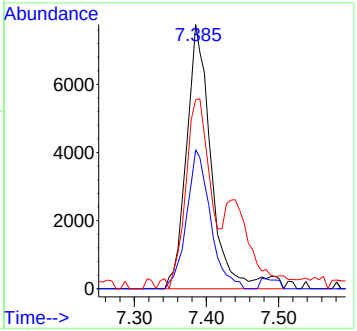


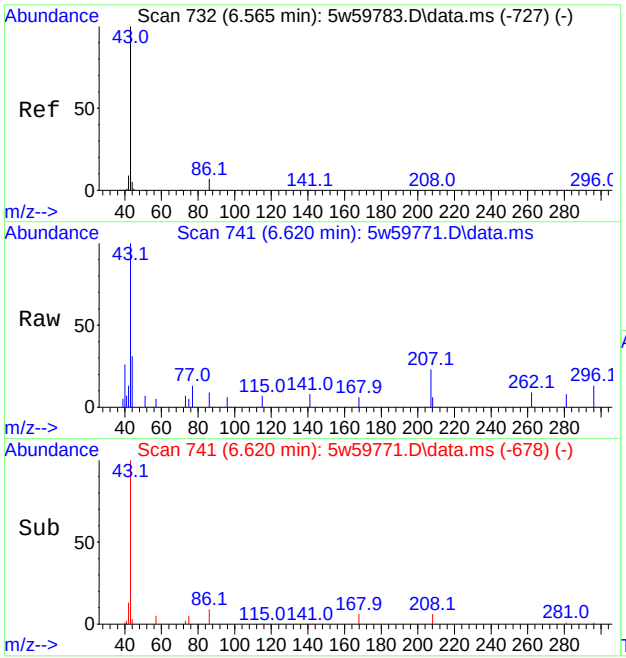


#38
HEXANE
Concen: 0.26 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18650

Ion	Ratio	Lower	Upper
57	100		
56	50.0	25.9	85.9
41	73.1	74.7	134.7#

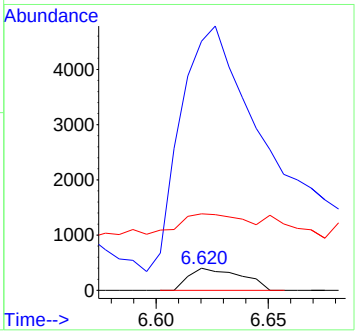


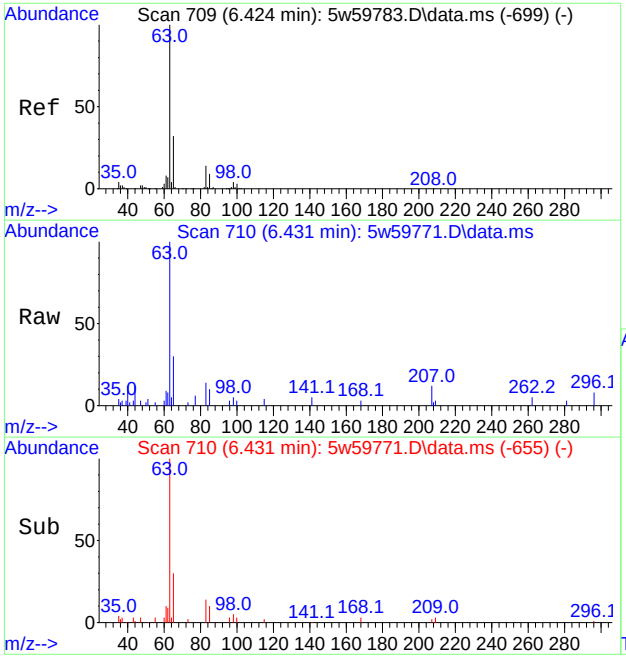


#39
VINYL ACETATE
Concen: 0.09 PPBV
RT: 6.620 min Scan# 741
Delta R.T. 0.055 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 86 Resp: 653

Ion	Ratio	Lower	Upper
86	100		
43	2548.1	1379.7	1439.7#
44	190.8	36.9	96.9#

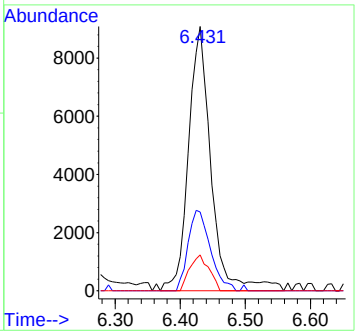


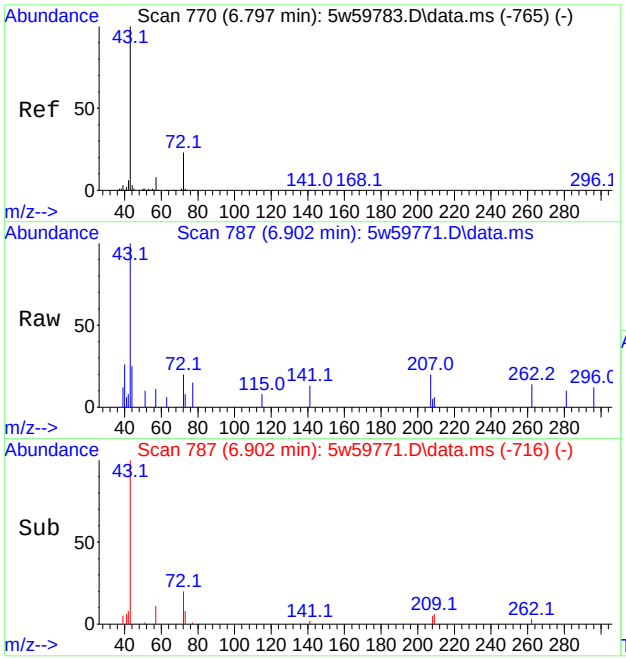


#40
1,1-DICHLOROETHANE
Concen: 0.23 PPBV
RT: 6.431 min Scan# 710
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 21909

Ion	Ratio	Lower	Upper
63	100		
65	30.0	1.7	61.7
83	11.7	0.0	43.5

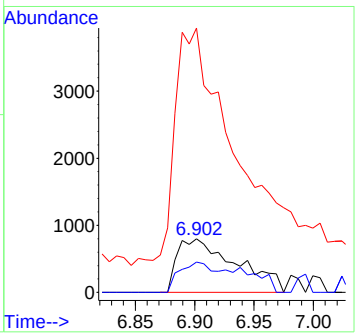


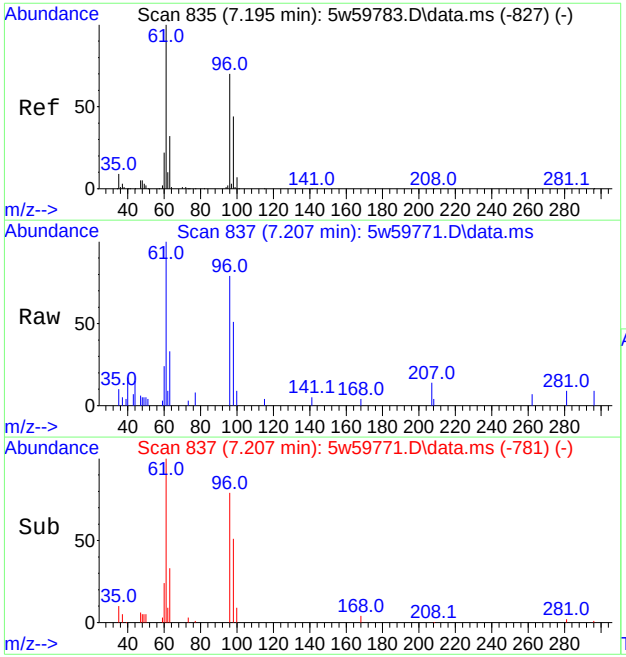


#41
METHYL ETHYL KETONE
Concen: 0.14 PPBV
RT: 6.902 min Scan# 787
Delta R.T. 0.105 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 2781

Ion	Ratio	Lower	Upper
72	100		
57	56.4	4.8	64.8
43	493.5	415.9	475.9#

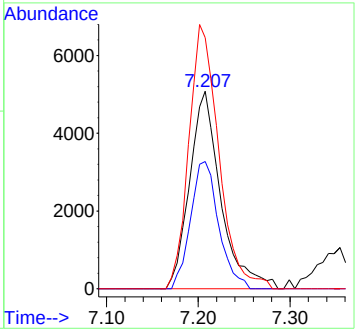


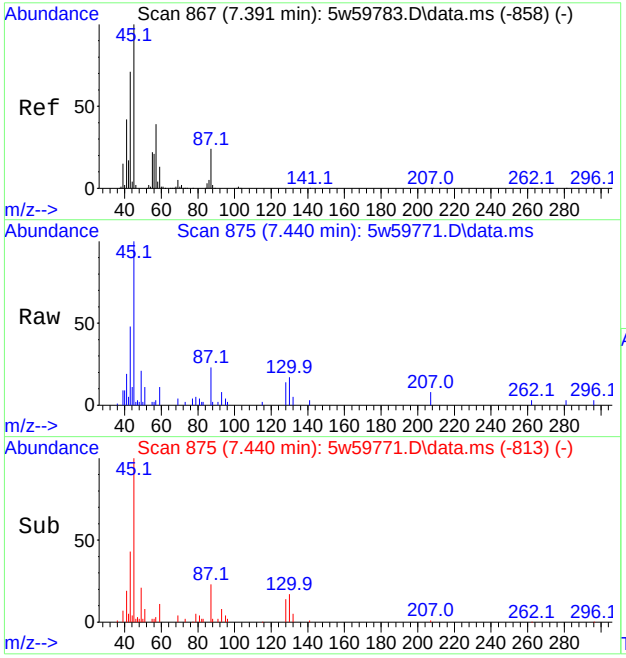


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 12027

Ion	Ratio	Lower	Upper
96	100		
98	58.2	34.0	94.0
61	128.8	111.5	171.5

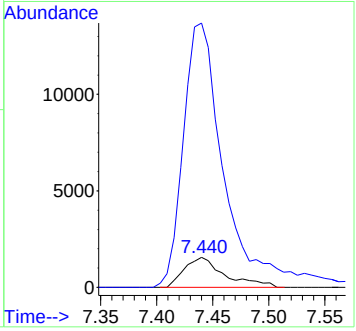


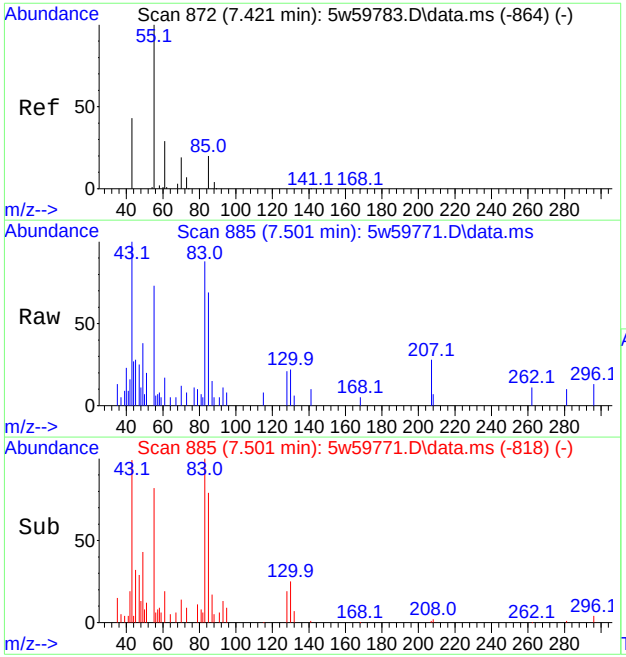


#43
DIISOPROPYL ETHER
Concen: 0.18 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.049 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 3909

Ion	Ratio	Lower	Upper
59	100		
45	923.5	720.9	780.9#

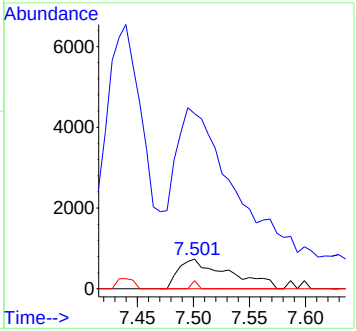


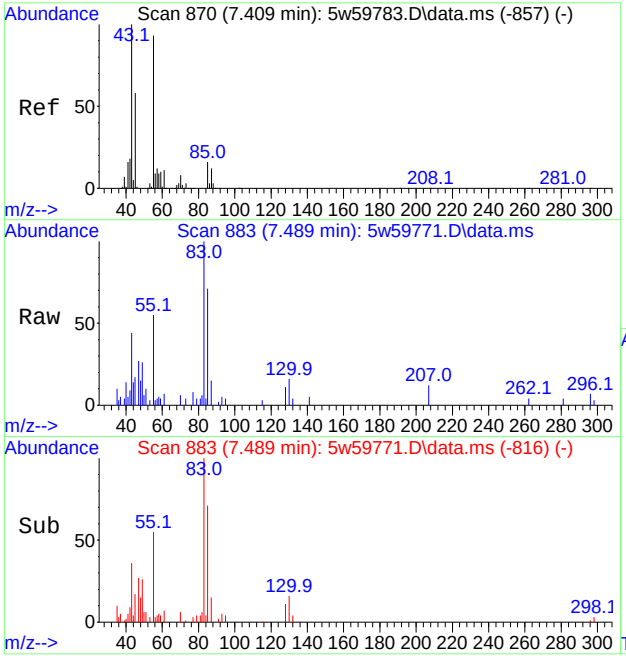


#44
ETHYL ACETATE
Concen: 0.15 PPBV m
RT: 7.501 min Scan# 885
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 61 Resp: 2309

Ion	Ratio	Lower	Upper
61	100		
43	613.1	560.5	620.5
88	3.2	4.5	64.5#

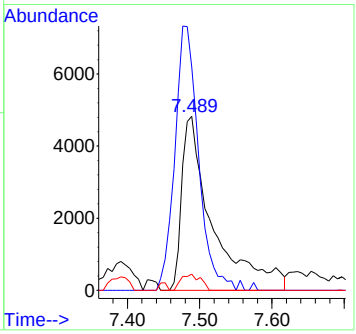


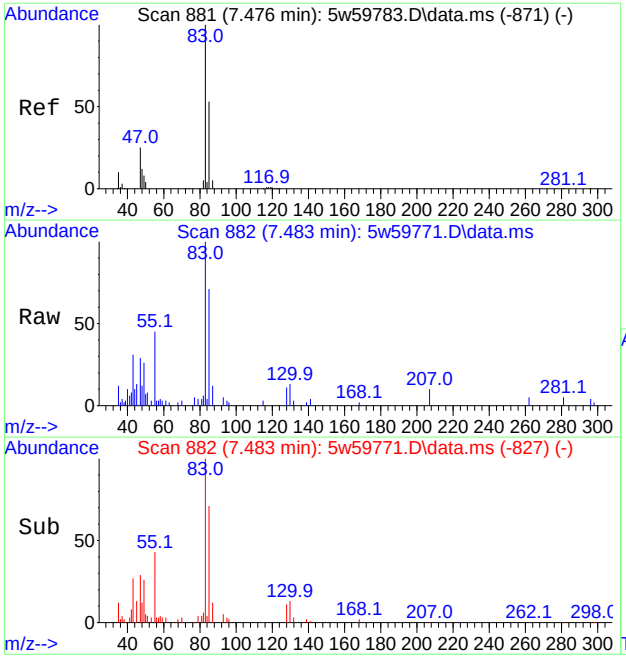


#45
METHYL ACRYLATE
Concen: 0.17 PPBV m
RT: 7.489 min Scan# 883
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 14366

Ion	Ratio	Lower	Upper
55	100		
85	116.3	10.9	20.3#
58	5.8	9.4	17.6#

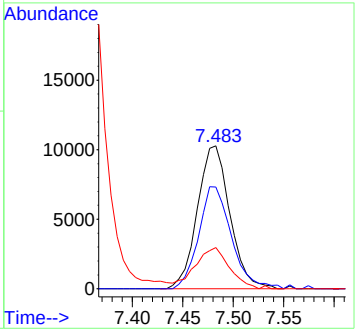


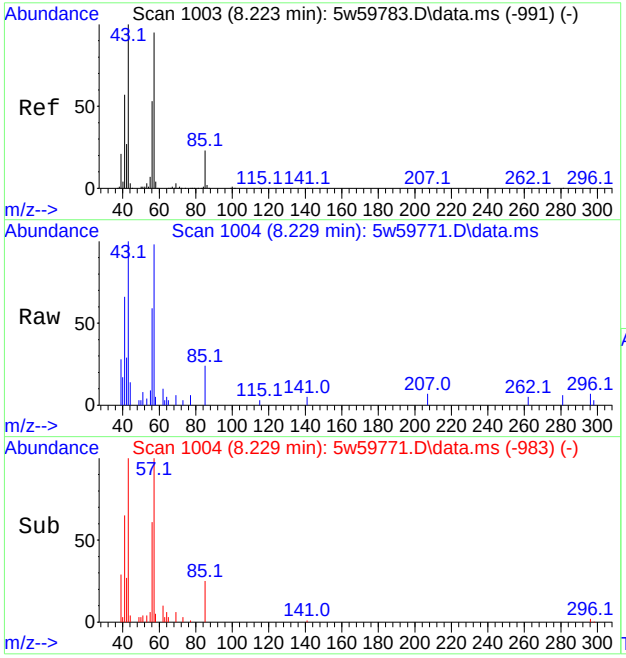


#46
CHLOROFORM
Concen: 0.22 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 23090

Ion	Ratio	Lower	Upper
83	100		
85	72.4	35.6	95.6
47	30.7	0.0	55.2

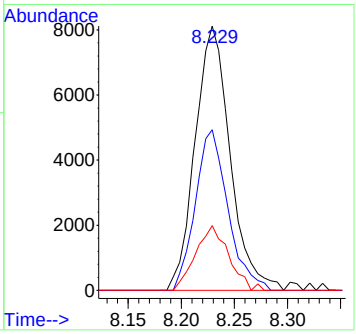


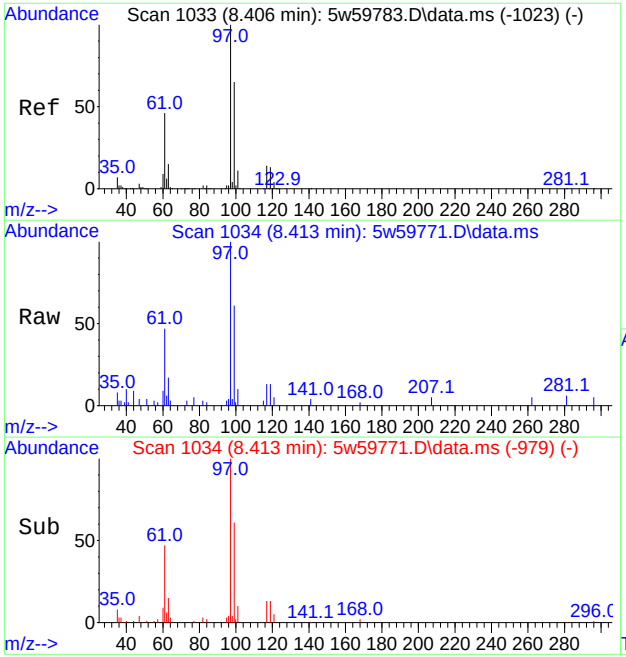


#47
2,4-DIMETHYLPENTANE
Concen: 0.22 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18643

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.1	0.0	53.8

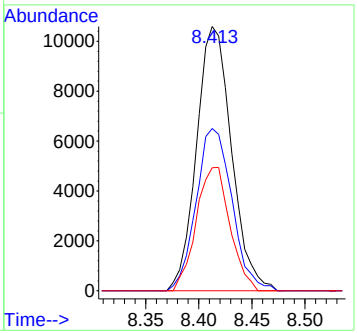


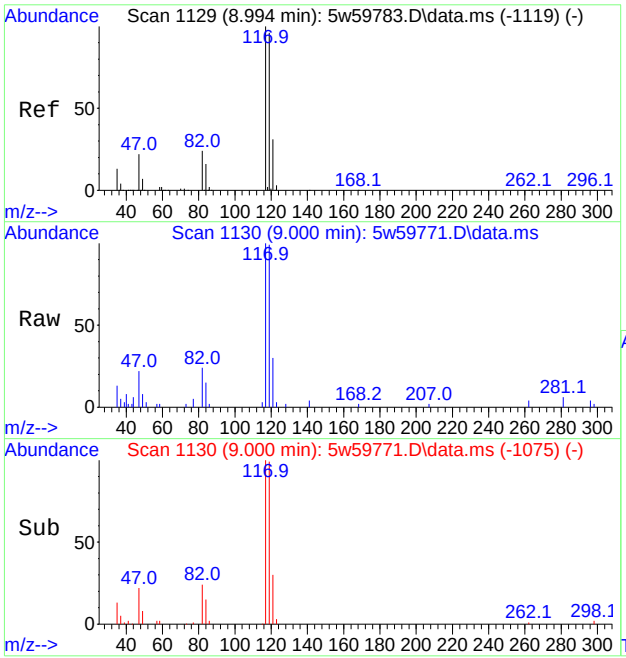


#48
1,1,1-TRICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 97 Resp: 24304

Ion	Ratio	Lower	Upper
97	100		
99	62.9	34.8	94.8
61	44.9	15.8	75.8

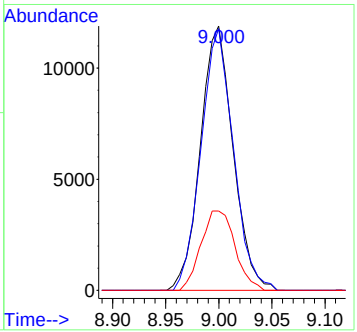


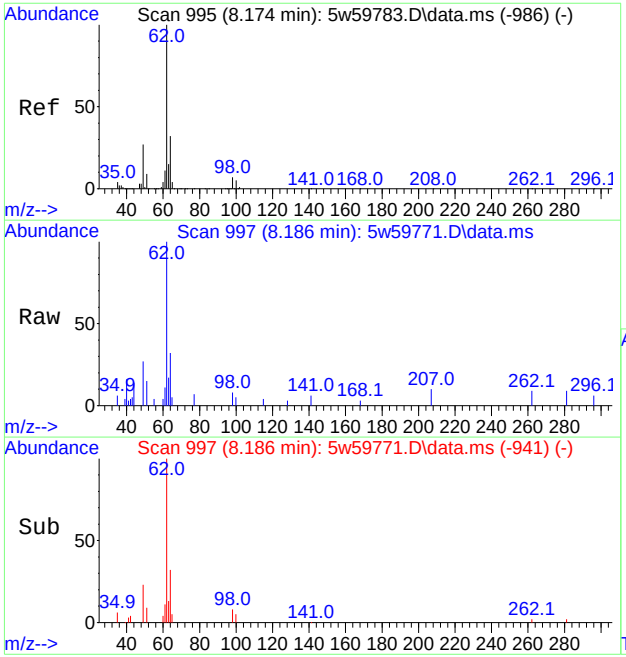


#49
CARBON TETRACHLORIDE
Concen: 0.21 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 25552

Ion	Ratio	Lower	Upper
117	100		
119	97.5	66.9	126.9
121	31.2	1.3	61.3

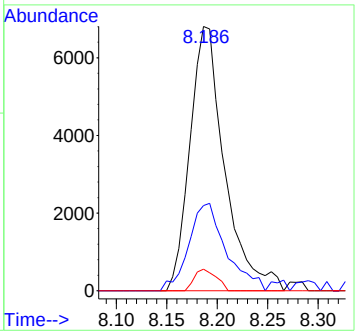


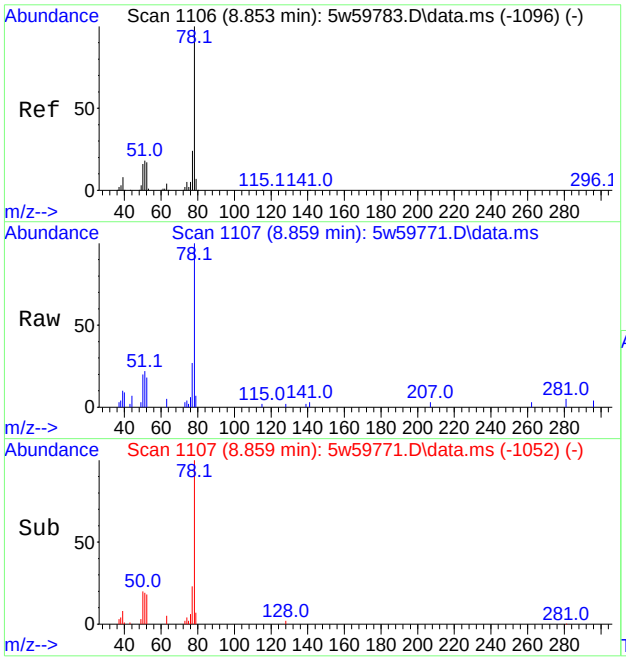


#50
1,2-DICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 16304

Ion	Ratio	Lower	Upper
62	100		
64	35.5	2.3	62.3
98	5.2	0.0	36.9

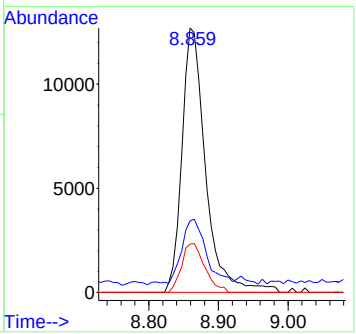


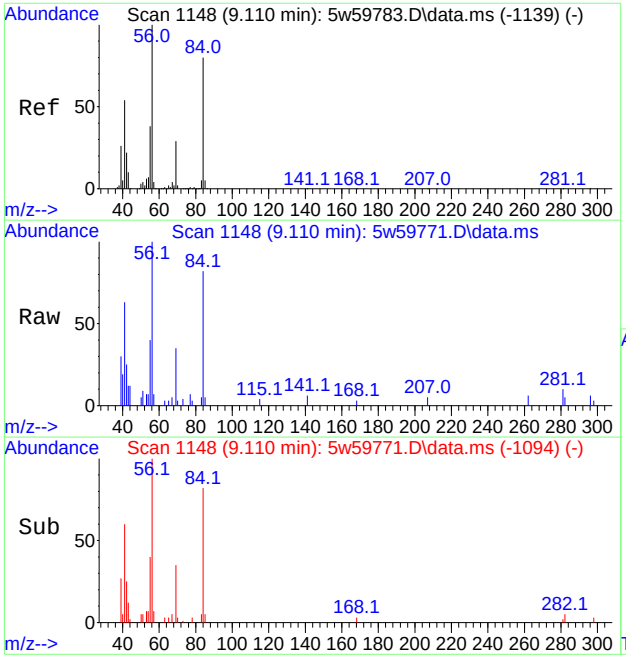


#52
BENZENE
Concen: 0.21 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 78 Resp: 30072

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	18.0	0.0	46.9

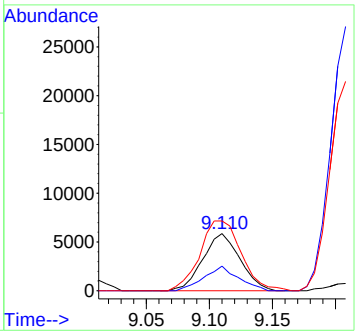


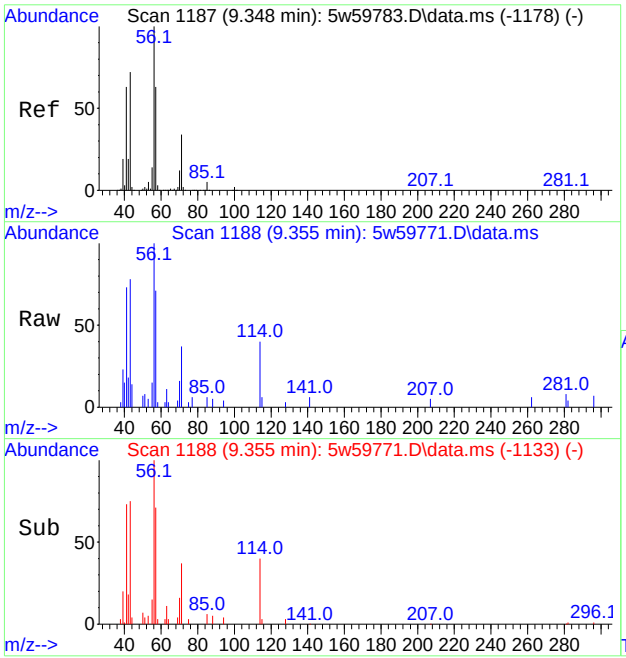


#53
CYCLOHEXANE
Concen: 0.20 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 12037

Ion	Ratio	Lower	Upper
84	100		
69	39.7	6.9	66.9
56	135.6	98.2	158.2

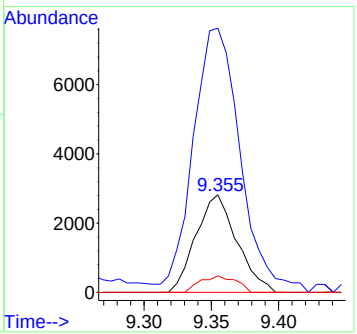


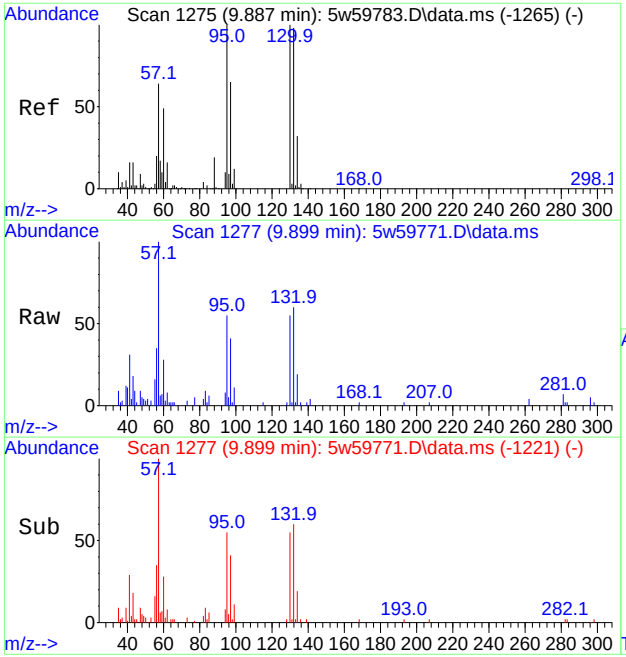


#54
2,3-DIMETHYLPENTANE
Concen: 0.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 71 Resp: 5961

Ion	Ratio	Lower	Upper
71	100		
56	313.5	264.6	324.6
85	14.8	0.0	45.3

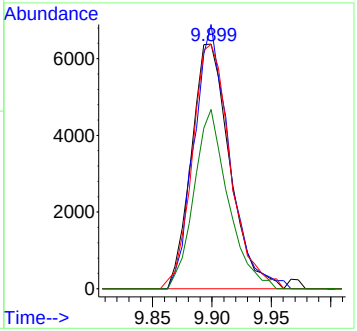


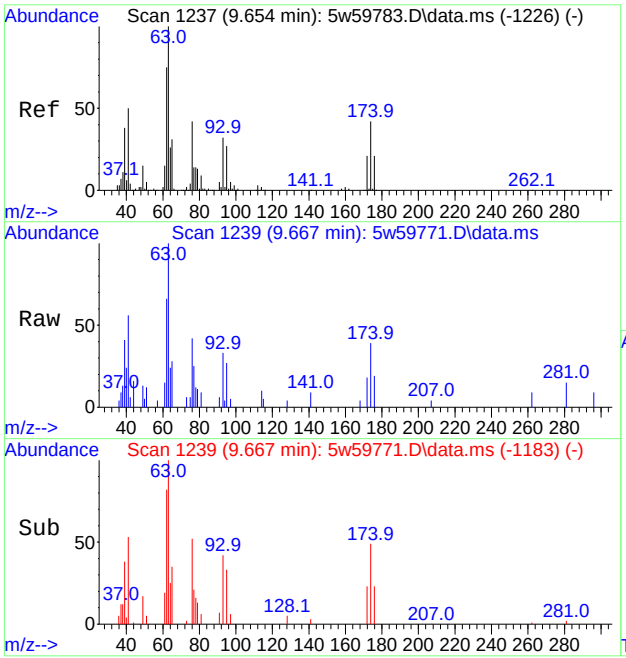


#55
TRICHLOROETHYLENE
Concen: 0.19 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 95 Resp: 14290

Ion	Ratio	Lower	Upper
95	100		
132	99.8	69.0	129.0
130	99.4	70.6	130.6
97	65.4	34.6	94.6

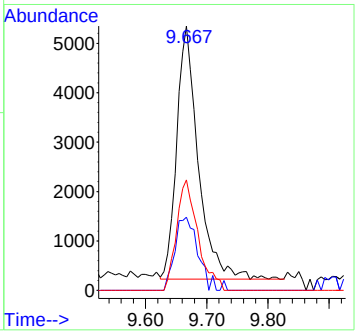


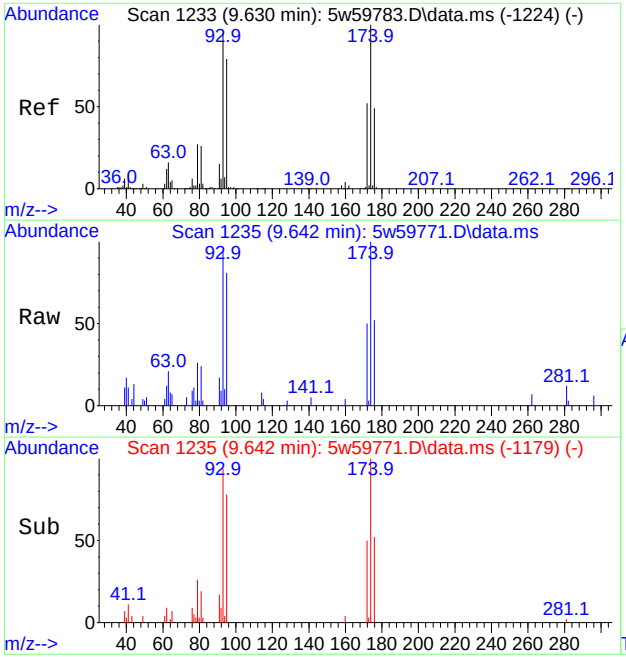


#56
1,2-DICHLOROPROPANE
Concen: 0.20 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 12562

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	43.0	11.5	71.5

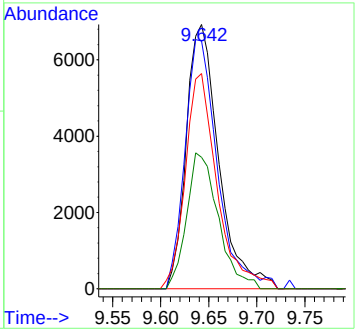


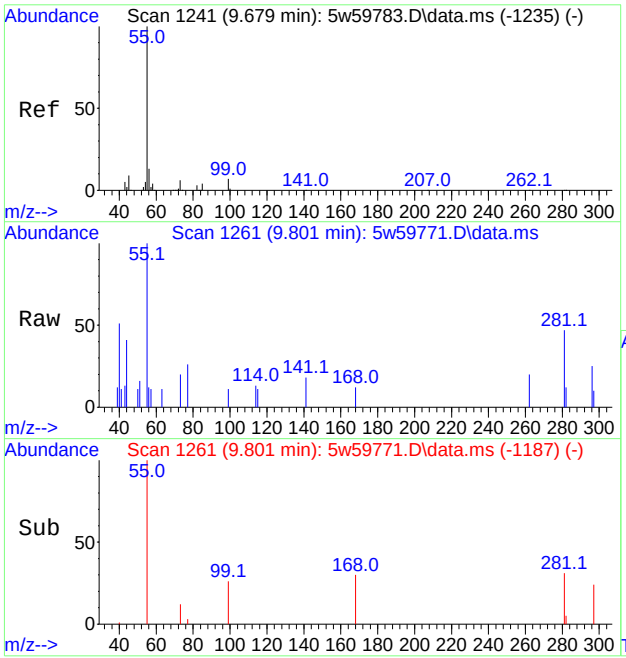


#57
DIBROMOMETHANE
Concen: 0.20 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:174 Resp: 16323

Ion	Ratio	Lower	Upper
174	100		
93	94.4	65.0	120.6
95	79.7	54.5	101.1
172	50.0	36.3	67.5

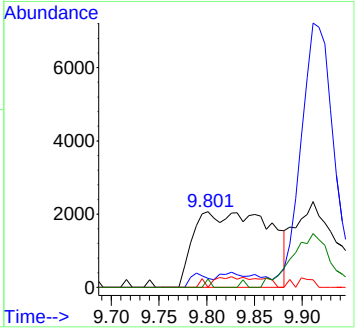


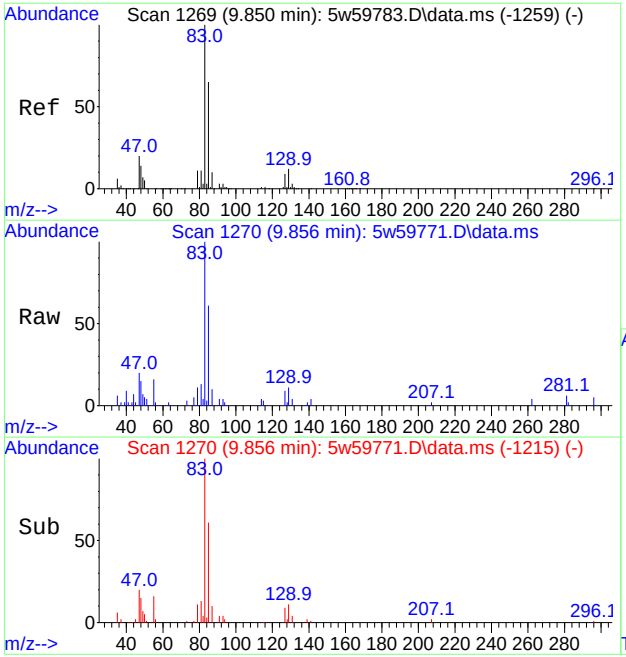


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV m
RT: 9.801 min Scan# 1261
Delta R.T. 0.122 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 11494

Ion	Ratio	Lower	Upper
55	100		
56	0.0	8.6	16.0#
45	0.0	6.6	12.2#
99	0.0	6.4	12.0#

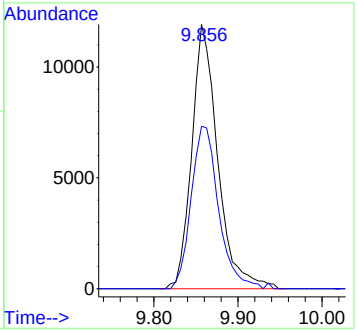


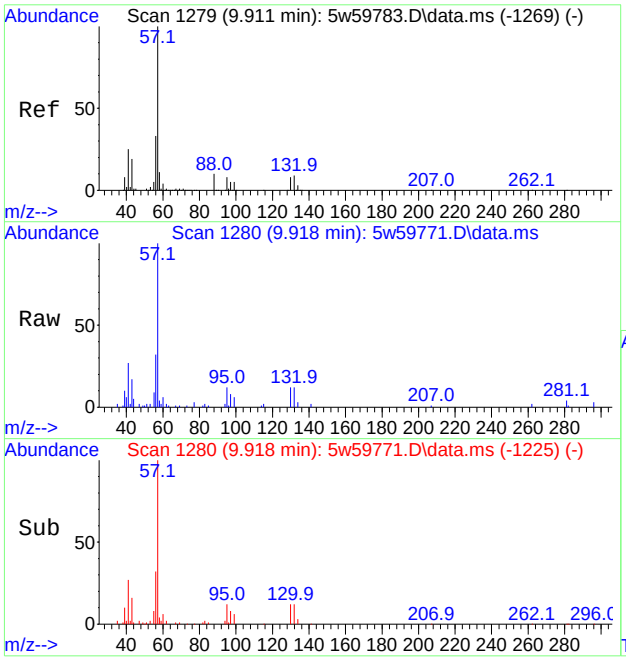


#59
BROMODICHLOROMETHANE
Concen: 0.20 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25637

Ion	Ratio	Lower	Upper
83	100		
85	64.9	33.4	93.4

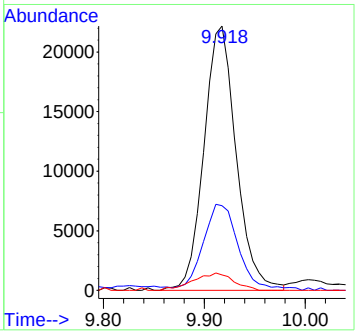


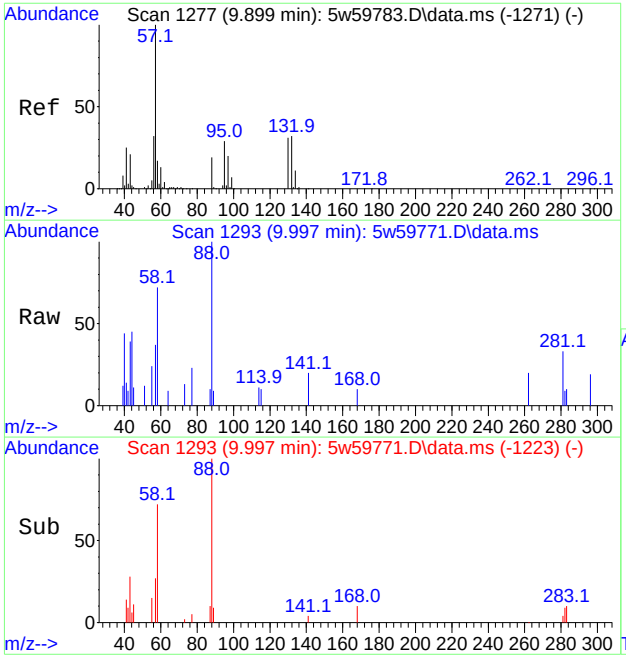


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 49437

Ion	Ratio	Lower	Upper
57	100		
56	35.7	2.5	62.5
99	8.3	0.0	37.3

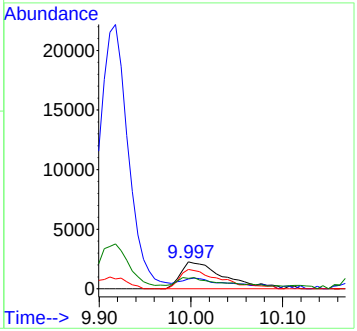


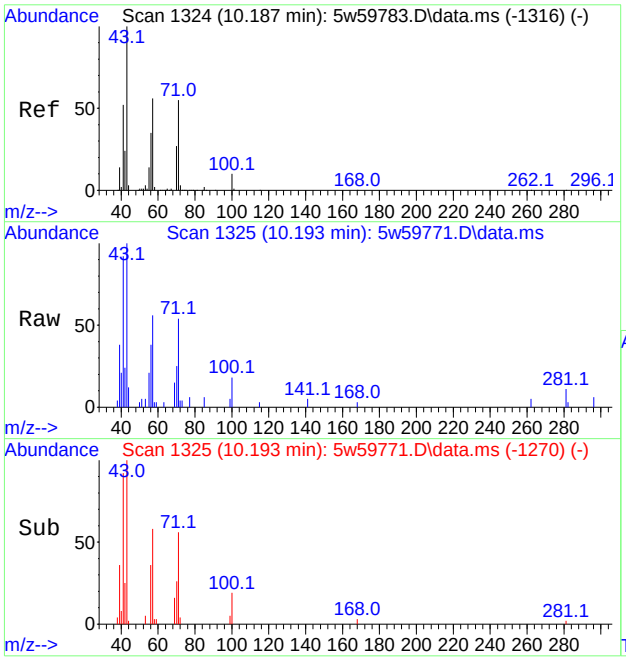


#61
1,4-DIOXANE
Concen: 0.22 PPBV
RT: 9.997 min Scan# 1293
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 88 Resp: 7396

Ion	Ratio	Lower	Upper
88	100		
57	36.9	494.2	554.2#
58	72.0	58.9	118.9
43	38.6	78.3	138.3#

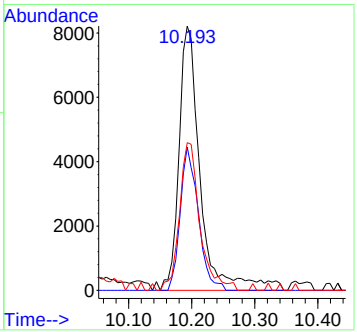


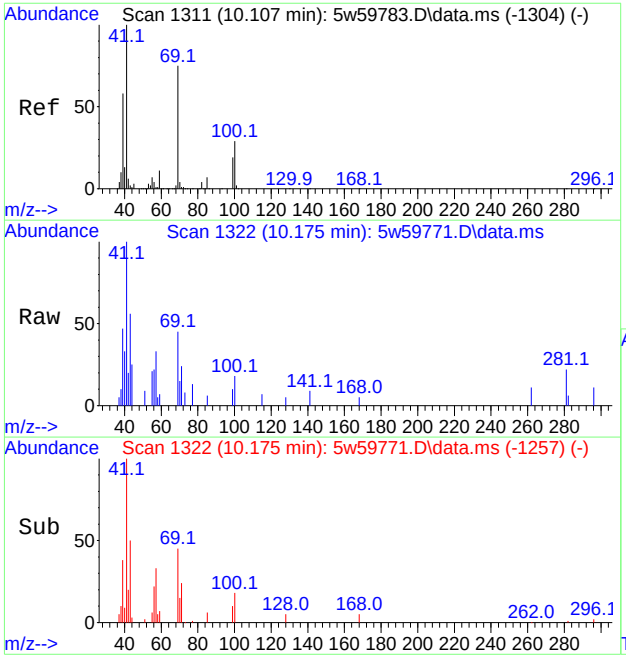


#62
HEPTANE
Concen: 0.24 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 19280

Ion	Ratio	Lower	Upper
43	100		
71	45.8	24.5	84.5
57	53.5	26.2	86.2

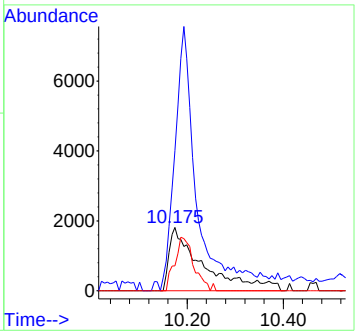


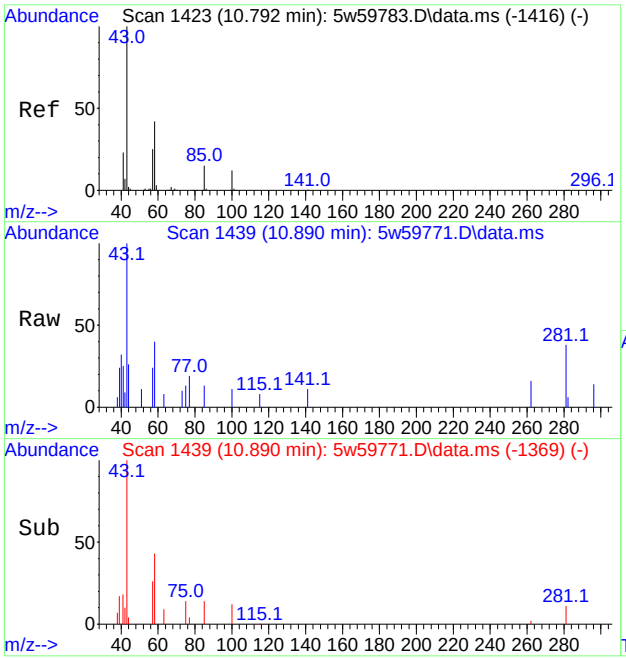


#63
METHYL METHACRYLATE
Concen: 0.18 PPBV
RT: 10.175 min Scan# 1322
Delta R.T. 0.068 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 8860

Ion	Ratio	Lower	Upper
69	100		
41	286.0	95.3	155.3#
100	47.7	6.3	66.3

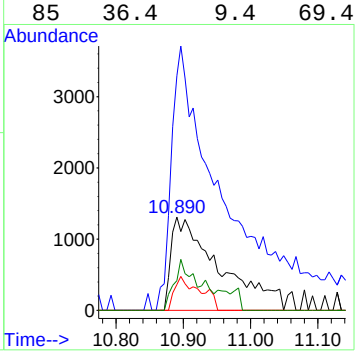


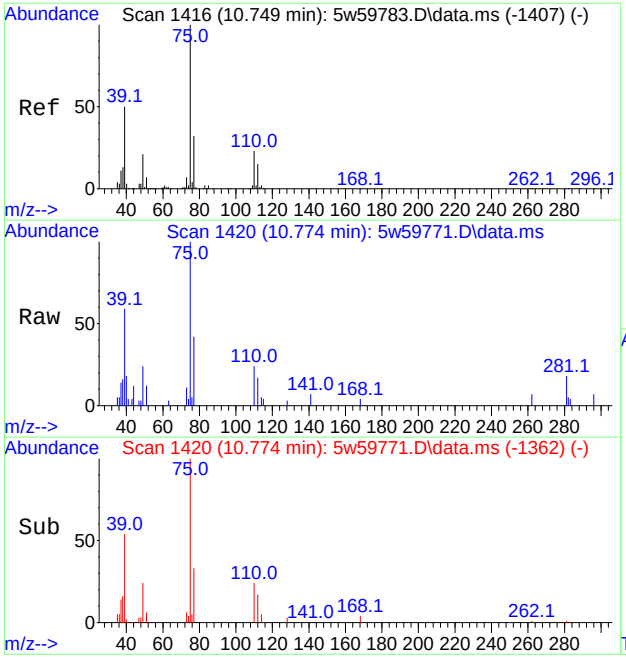


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 10.890 min Scan# 1439
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6548

Ion	Ratio	Lower	Upper
58	100		
43	299.8	209.2	269.2#
100	19.0	0.0	58.8
85	36.4	9.4	69.4

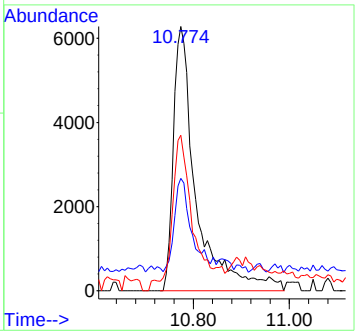


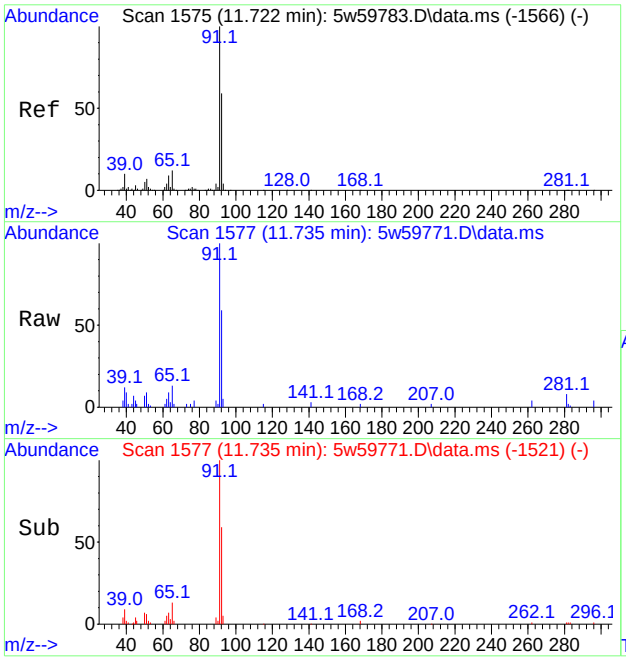


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 10.774 min Scan# 1420
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 20672

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	57.0	34.3	94.3

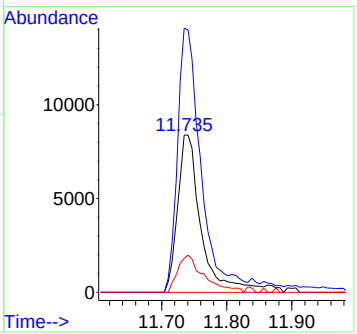


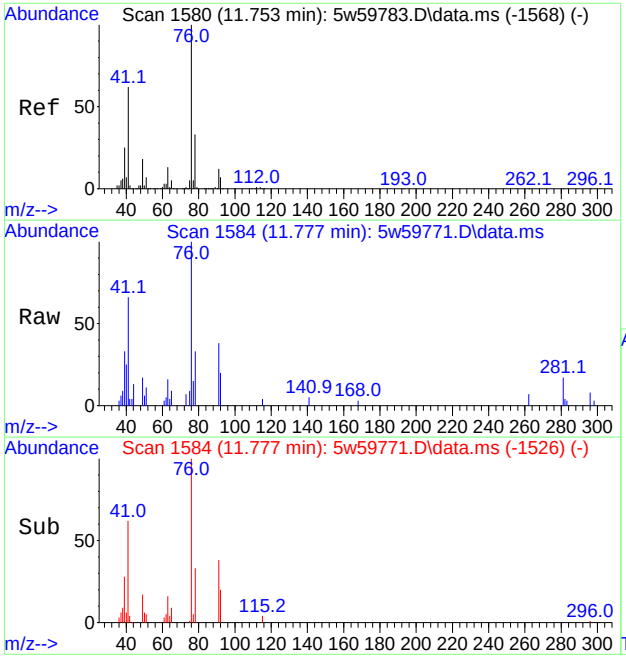


#66
TOLUENE
Concen: 0.19 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 92 Resp: 21289

Ion	Ratio	Lower	Upper
92	100		
91	180.0	140.1	200.1
65	25.9	0.0	53.1

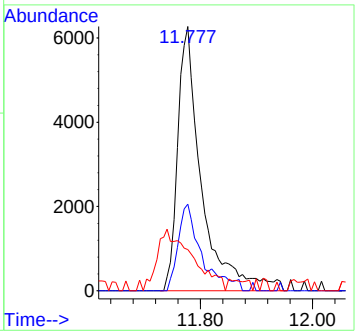


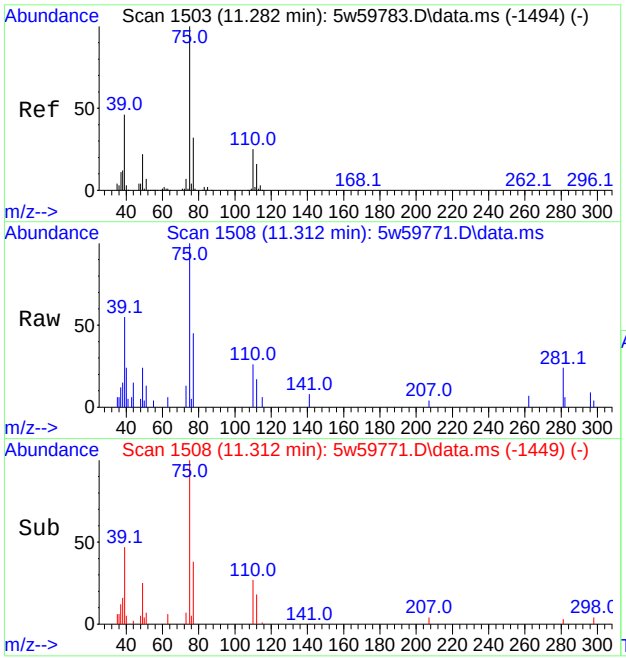


#67
1,3-DICHLOROPROPANE
Concen: 0.21 PPBV m
RT: 11.777 min Scan# 1584
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 18562

Ion	Ratio	Lower	Upper
76	100		
78	32.2	23.2	43.0
63	9.4	7.1	13.1

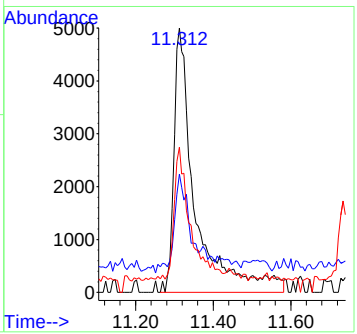


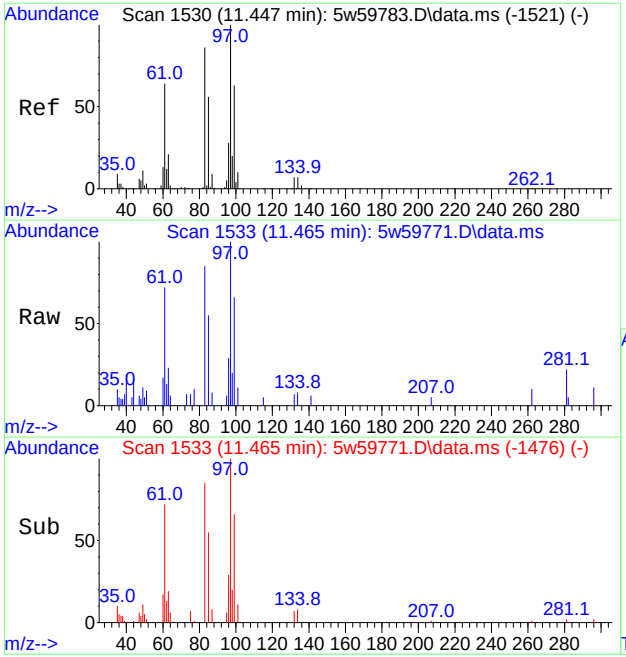


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 11.312 min Scan# 1508
Delta R.T. 0.030 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 19068

Ion	Ratio	Lower	Upper
75	100		
77	35.2	1.6	61.6
39	50.1	16.1	76.1

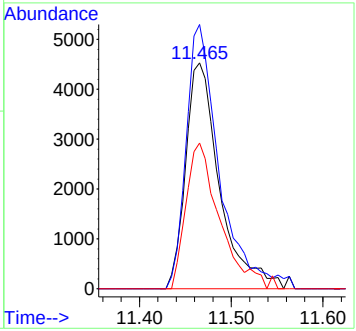


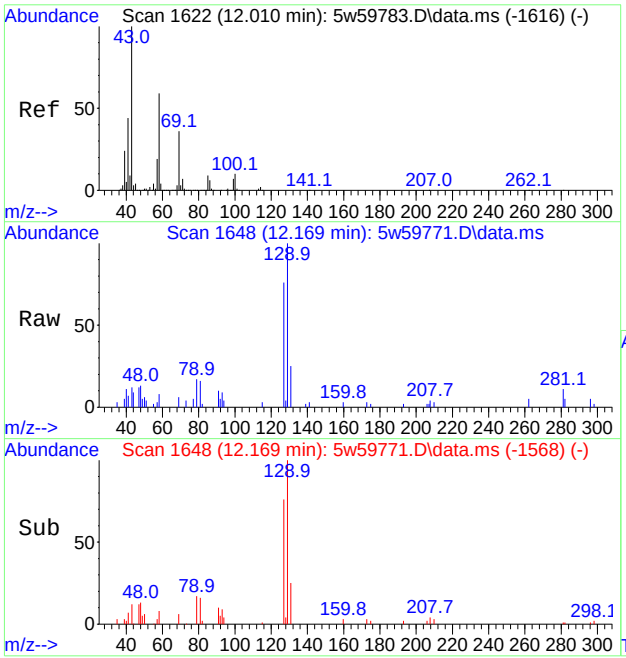


#69
1,1,2-TRICHLOROETHANE
Concen: 0.19 PPBV
RT: 11.465 min Scan# 1533
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 11660

Ion	Ratio	Lower	Upper
83	100		
97	114.8	86.3	146.3
85	64.7	35.3	95.3

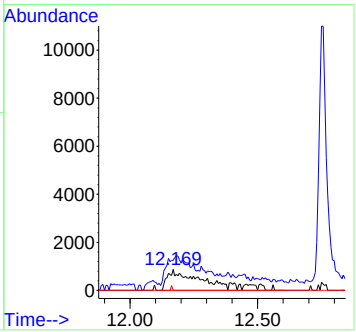


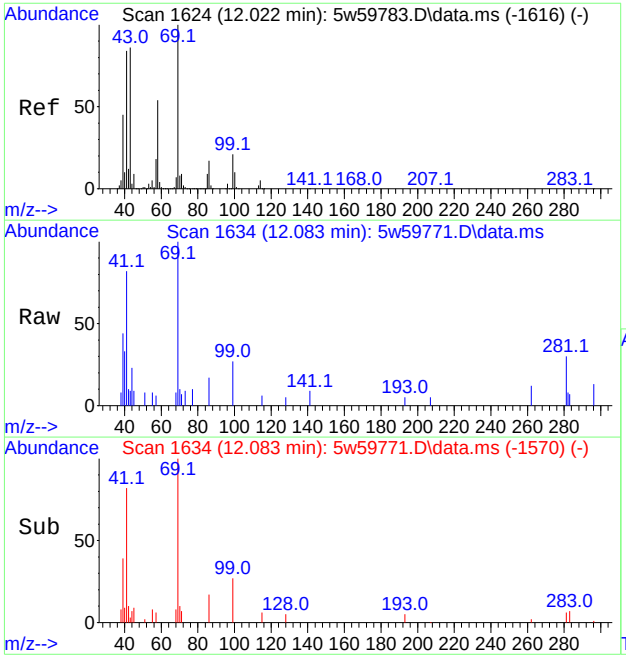


#71
2-HEXANONE
Concen: 0.16 PPBV m
RT: 12.169 min Scan# 1648
Delta R.T. 0.159 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 9038

Ion	Ratio	Lower	Upper
58	100		
43	104.3	137.2	197.2#
100	0.0	0.0	46.9

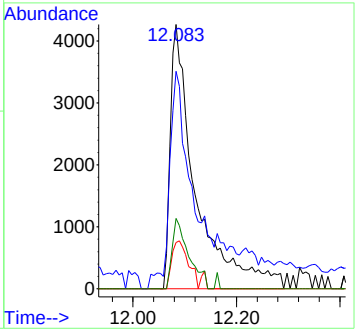


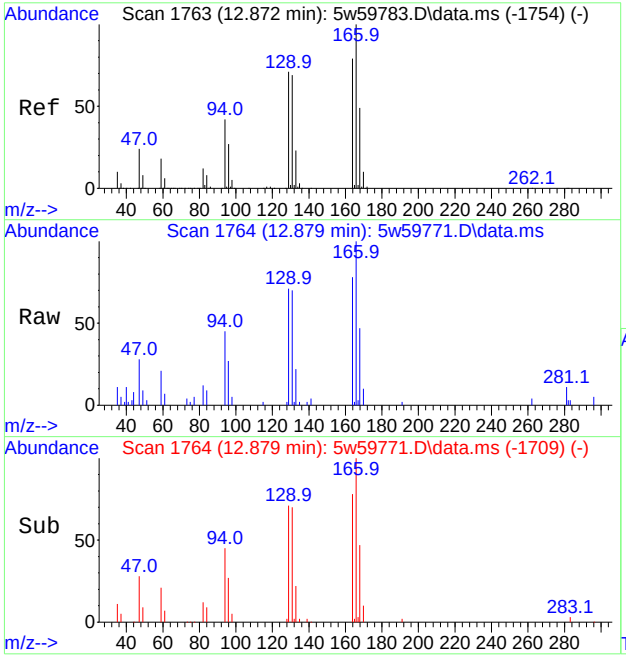


#72
ETHYL METHACRYLATE
Concen: 0.19 PPBV
RT: 12.083 min Scan# 1634
Delta R.T. 0.061 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 14602

Ion	Ratio	Lower	Upper
69	100		
41	106.4	64.0	119.0
86	11.8	12.0	22.4#
99	17.3	15.0	27.8

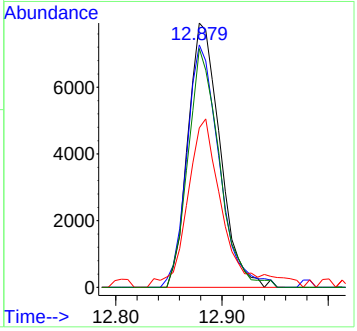


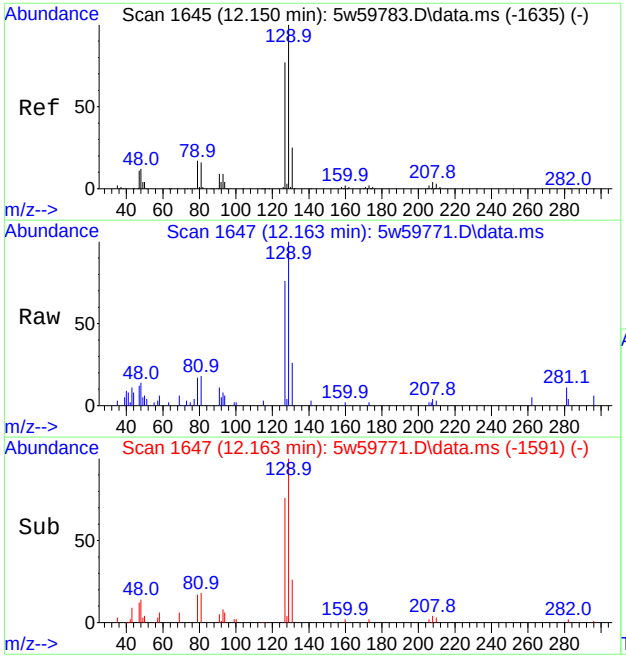


#73
TETRACHLOROETHYLENE
Concen: 0.23 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:164 Resp: 16678

Ion	Ratio	Lower	Upper
164	100		
129	92.5	59.7	119.7
168	69.8	32.2	92.2
131	88.1	57.8	117.8

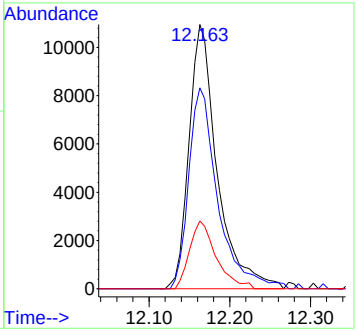


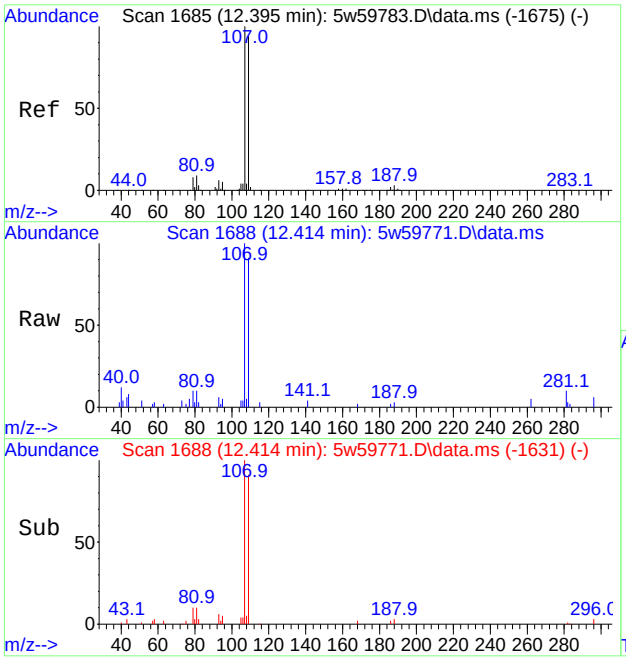


#74
DIBROMOCHLOROMETHANE
Concen: 0.21 PPBV
RT: 12.163 min Scan# 1647
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:129 Resp: 26574

Ion	Ratio	Lower	Upper
129	100		
127	78.2	47.1	107.1
131	24.1	0.0	54.5

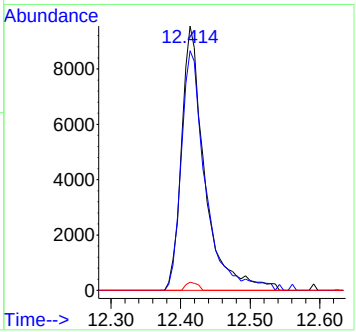


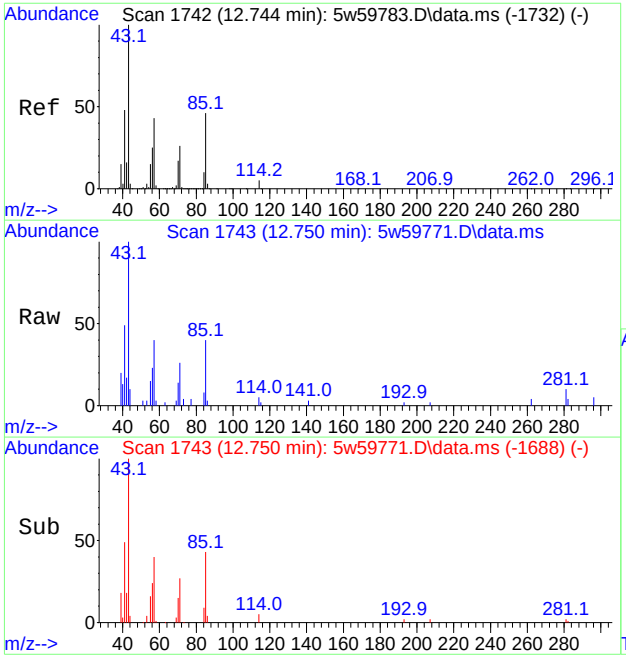


#75
1,2-DIBROMOETHANE
Concen: 0.22 PPBV
RT: 12.414 min Scan# 1688
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:107 Resp: 22241

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	1.6	0.0	32.8

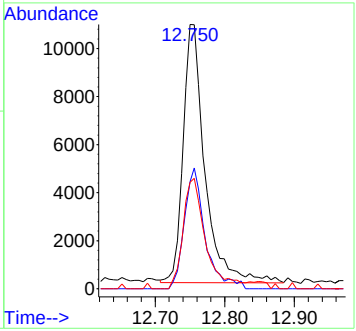


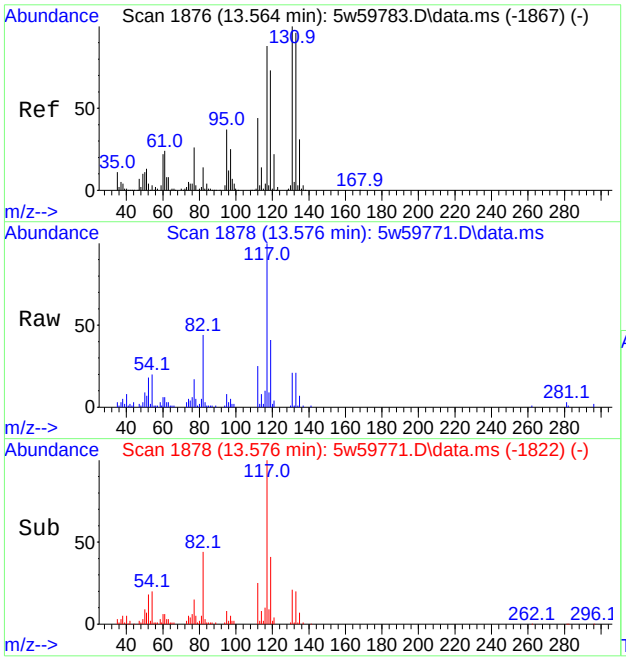


#76
OCTANE
Concen: 0.25 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 23489

Ion	Ratio	Lower	Upper
43	100		
85	44.5	14.6	74.6
57	46.5	13.7	73.7

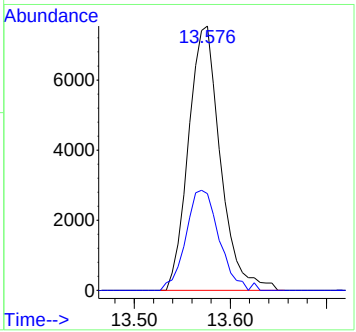


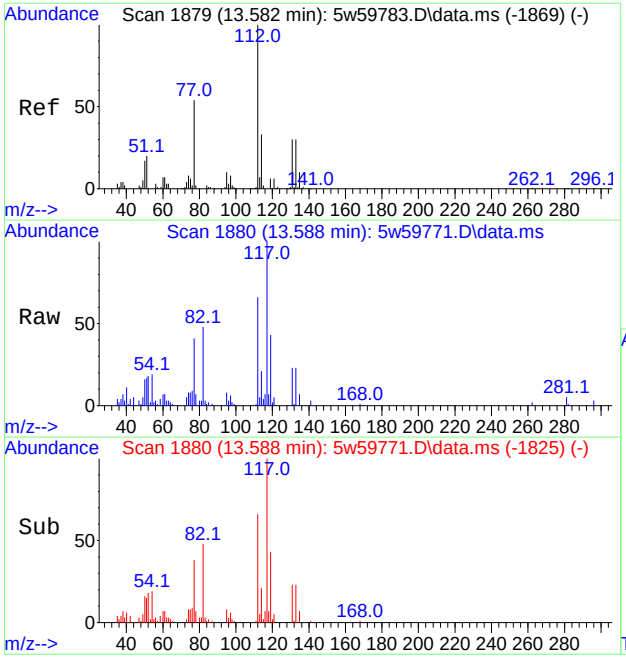


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.21 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:131 Resp: 17410

Ion	Ratio	Lower	Upper
131	100		
95	39.7	6.5	66.5

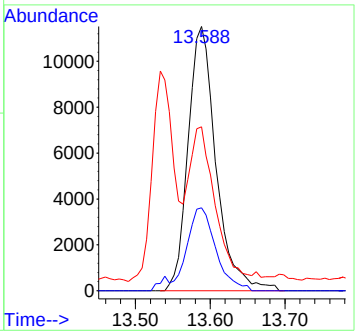


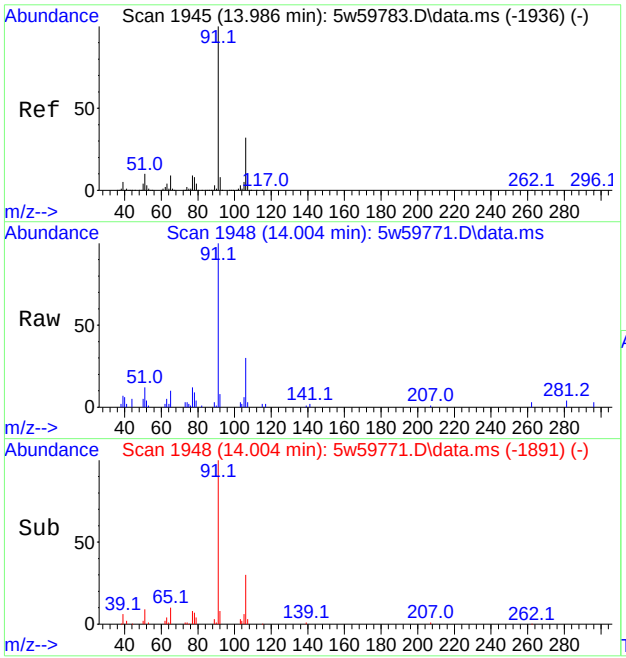


#78
CHLOROBENZENE
Concen: 0.23 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:112 Resp: 29927

Ion	Ratio	Lower	Upper
112	100		
114	32.2	2.6	62.6
77	55.6	25.4	85.4

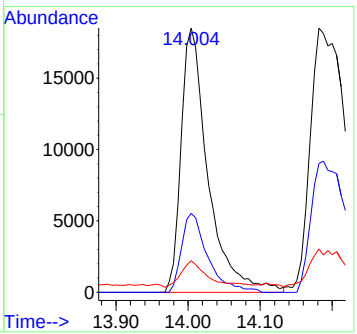


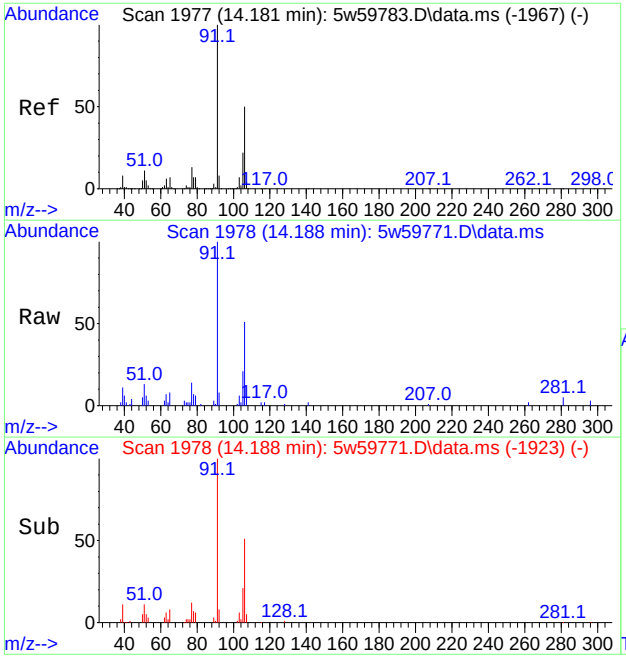


#79
ETHYLBENZENE
Concen: 0.24 PPBV
RT: 14.004 min Scan# 1948
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 48060

Ion	Ratio	Lower	Upper
91	100		
106	28.9	1.3	61.3
77	10.2	0.0	38.6

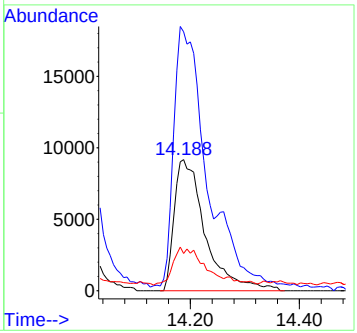


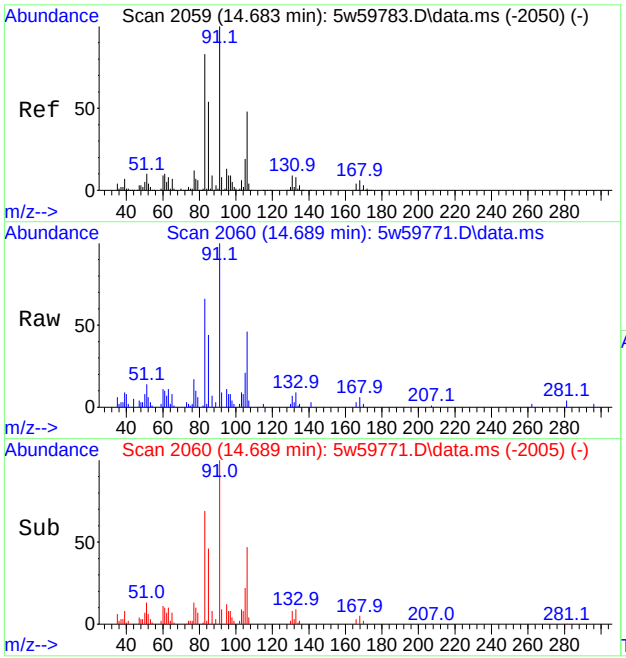


#80
m,p-XYLENE
Concen: 0.45 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 36141

Ion	Ratio	Lower	Upper
106	100		
91	197.2	171.0	231.0
77	28.5	0.0	56.7

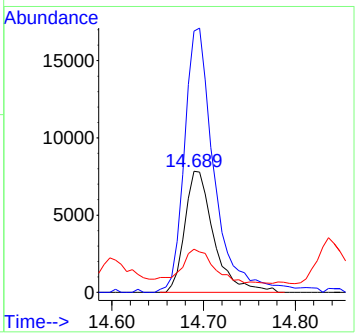


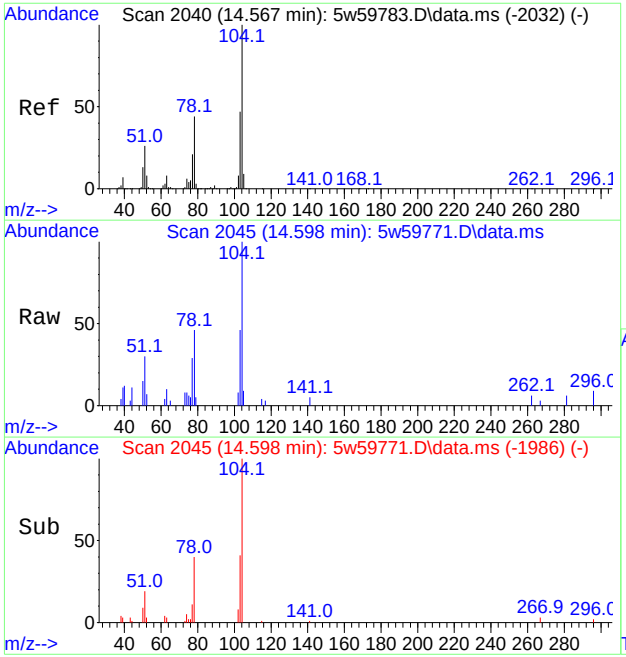


#81
o-XYLENE
Concen: 0.23 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 17278

Ion	Ratio	Lower	Upper
106	100		
91	226.2	181.6	241.6
77	34.4	0.0	56.6

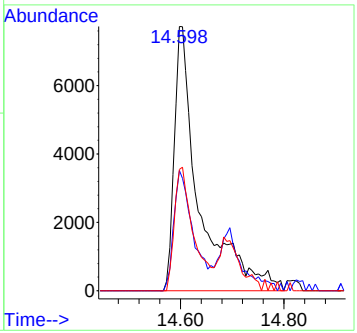


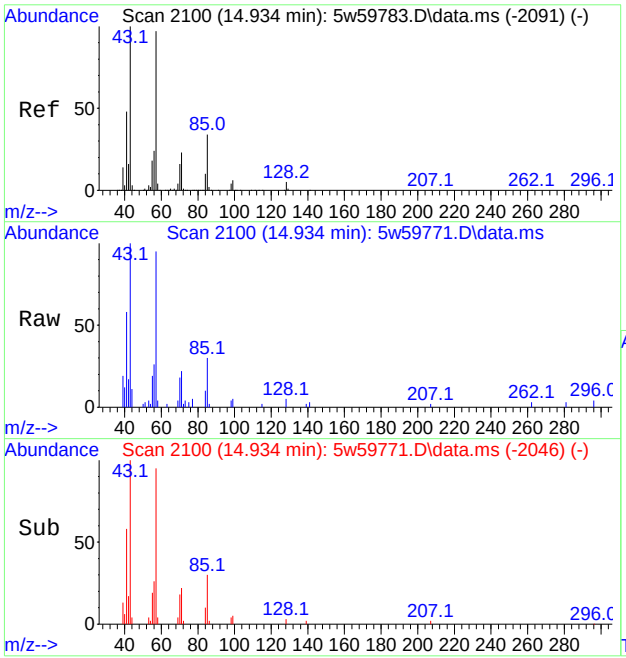


#82
STYRENE
Concen: 0.21 PPBV
RT: 14.598 min Scan# 2045
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:104 Resp: 26105

Ion	Ratio	Lower	Upper
104	100		
78	36.1	13.3	73.3
103	36.3	17.2	77.2

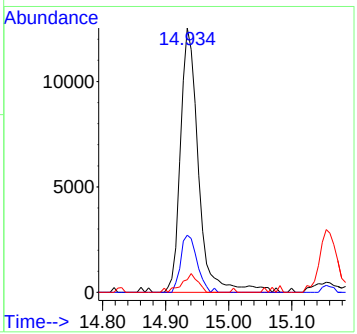


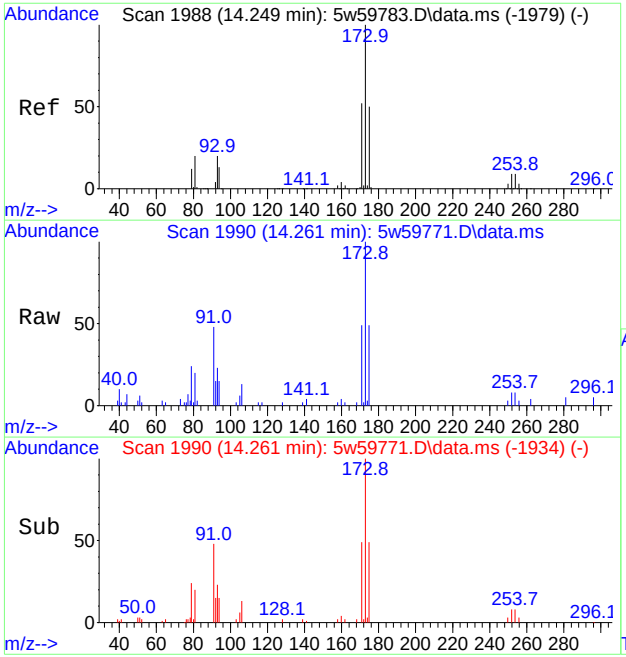


#83
NONANE
Concen: 0.26 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 25033

Ion	Ratio	Lower	Upper
43	100		
71	19.6	0.0	52.7
128	6.3	0.0	34.7

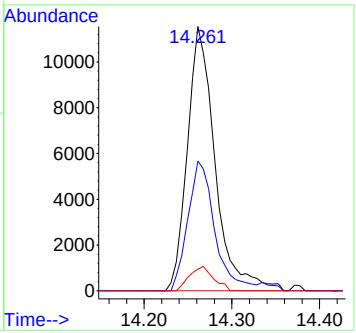


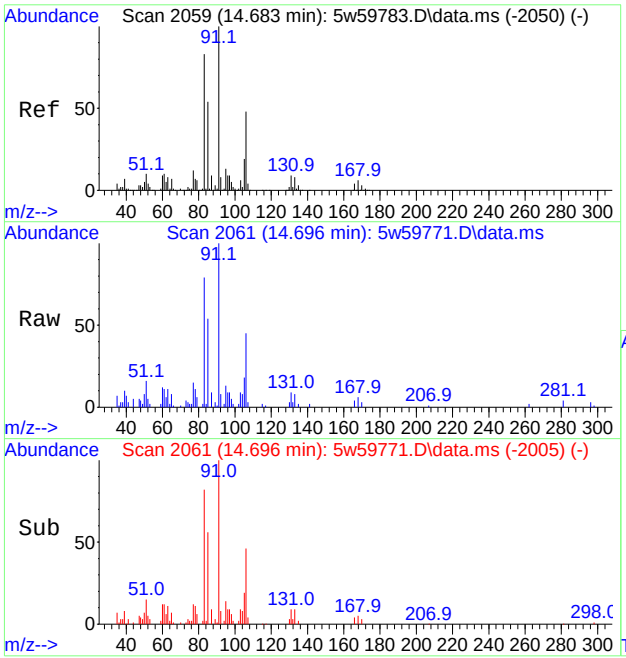


#84
BROMOFORM
Concen: 0.20 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:173 Resp: 25461

Ion	Ratio	Lower	Upper
173	100		
175	49.1	19.6	79.6
254	7.9	0.0	39.0

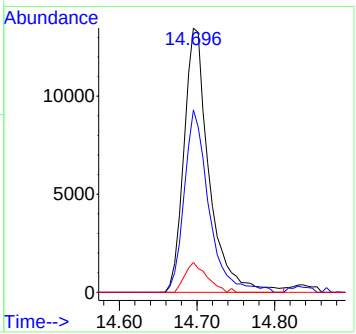


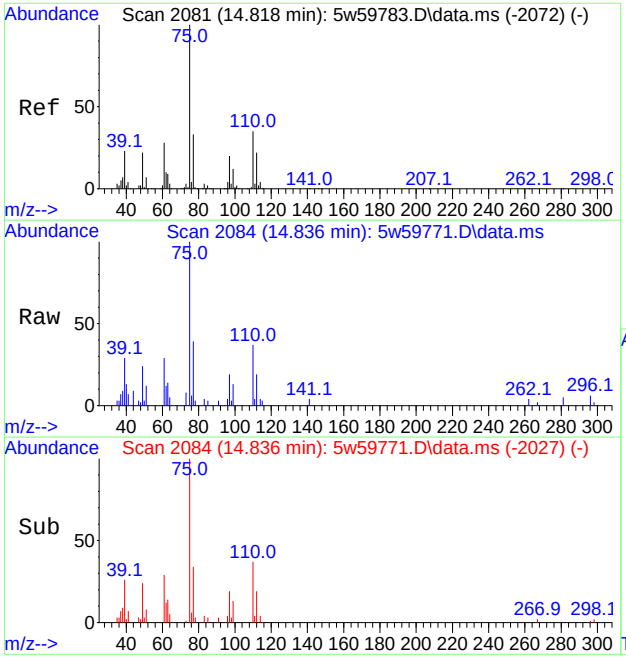


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.23 PPBV
RT: 14.696 min Scan# 2061
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 30281

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	10.0	0.0	40.3

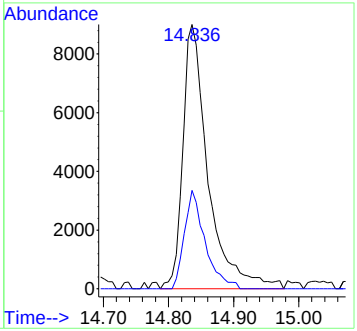


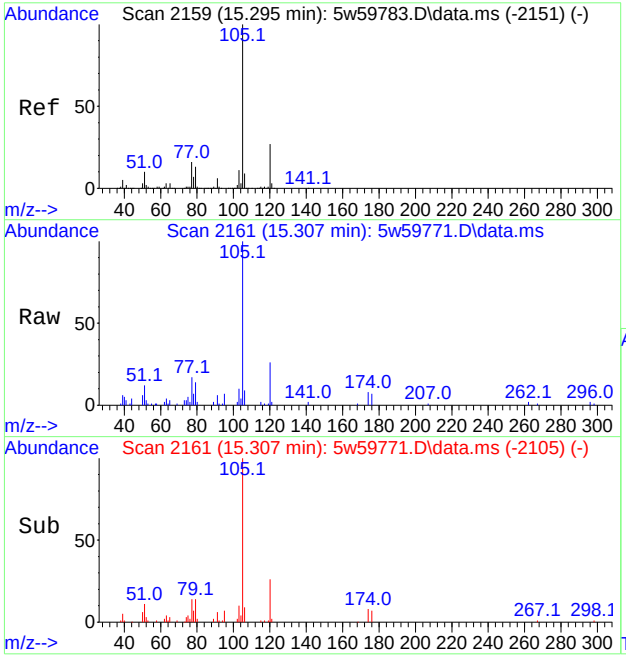


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.24 PPBV
RT: 14.836 min Scan# 2084
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 24248

Ion	Ratio	Lower	Upper
75	100		
110	30.6	4.4	64.4

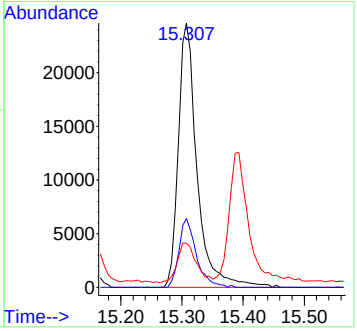


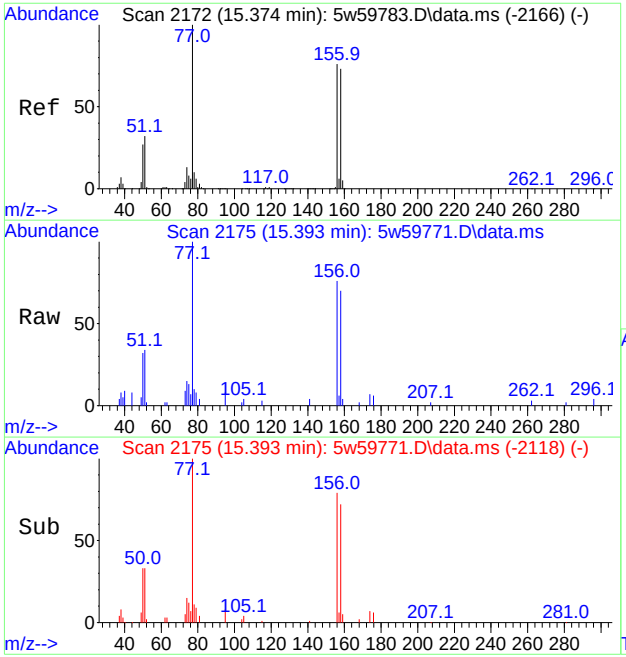


#88
ISOPROPYLBENZENE
Concen: 0.23 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 52329

Ion	Ratio	Lower	Upper
105	100		
120	24.2	0.0	56.0
77	15.5	0.0	45.6

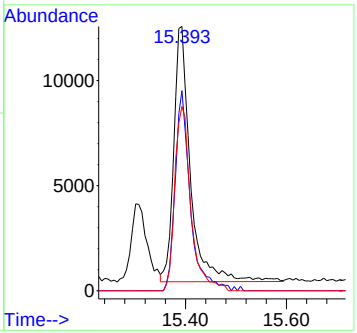


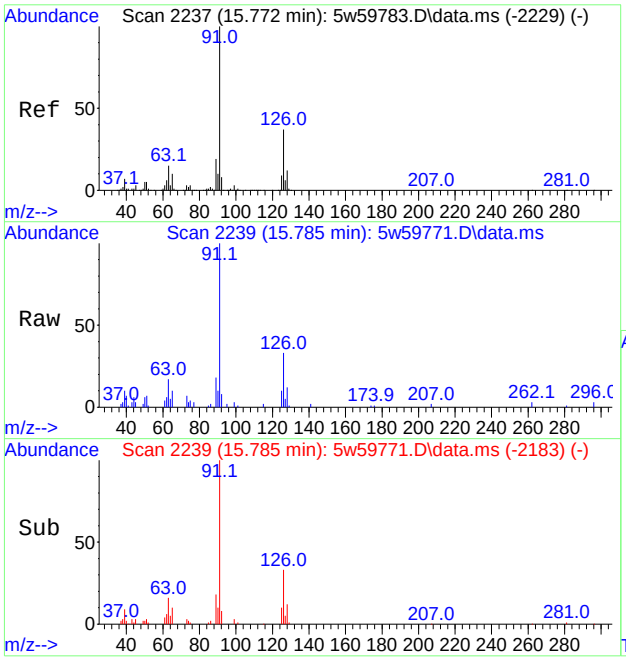


#89
BROMOBENZENE
Concen: 0.24 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 77 Resp: 27933

Ion	Ratio	Lower	Upper
77	100		
156	70.8	54.9	101.9
158	69.8	53.5	99.3

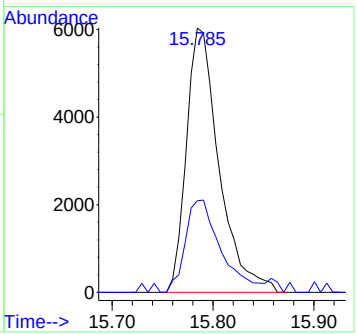


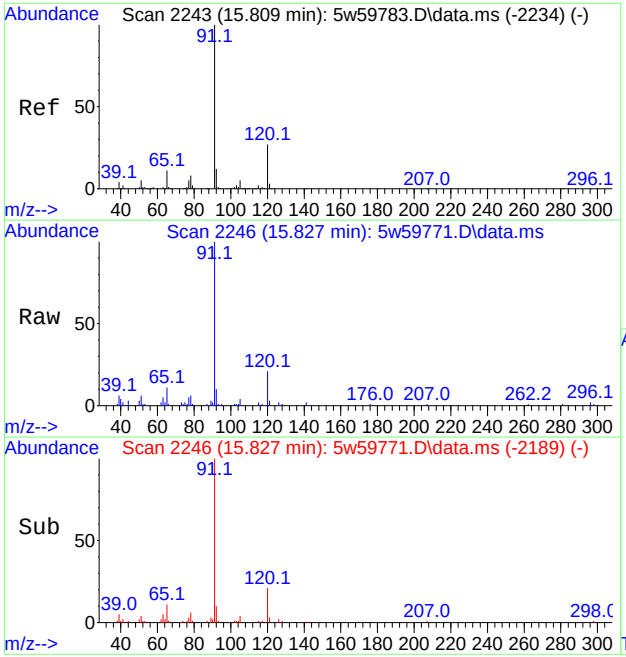


#90
2-CHLOROTOLUENE
Concen: 0.21 PPBV
RT: 15.785 min Scan# 2239
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:126 Resp: 13598

Ion	Ratio	Lower	Upper
126	100		
128	40.4	2.7	62.7

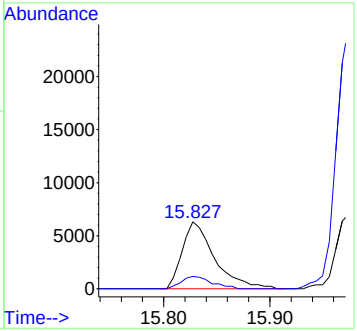


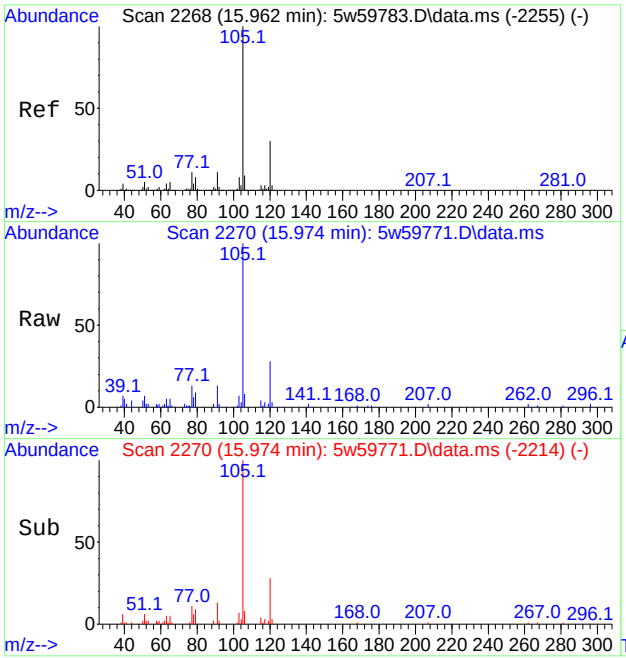


#91
n-PROPYLBENZENE
Concen: 0.21 PPBV
RT: 15.827 min Scan# 2246
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:120 Resp: 13388

Ion	Ratio	Lower	Upper
120	100		
105	17.4	0.0	47.0

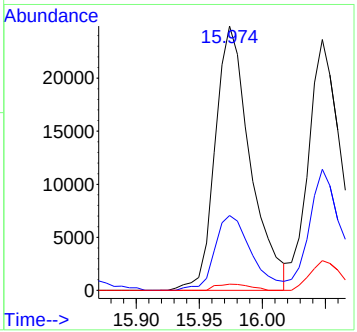


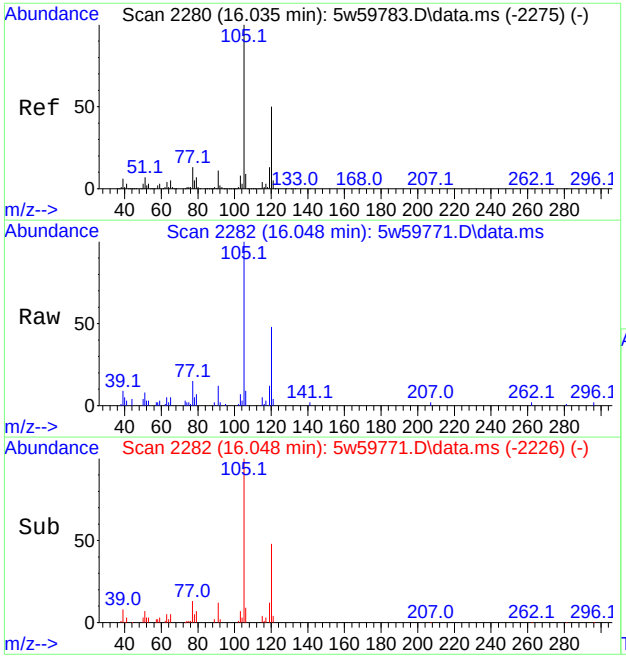


#92
4-ETHYLTOLUENE
Concen: 0.22 PPBV
RT: 15.974 min Scan# 2270
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48336

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	59.9
119	2.3	0.0	32.3

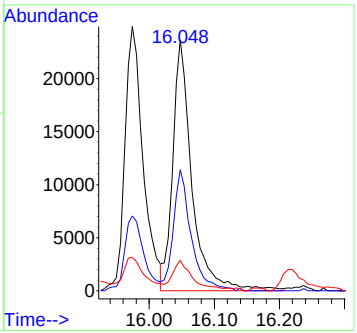


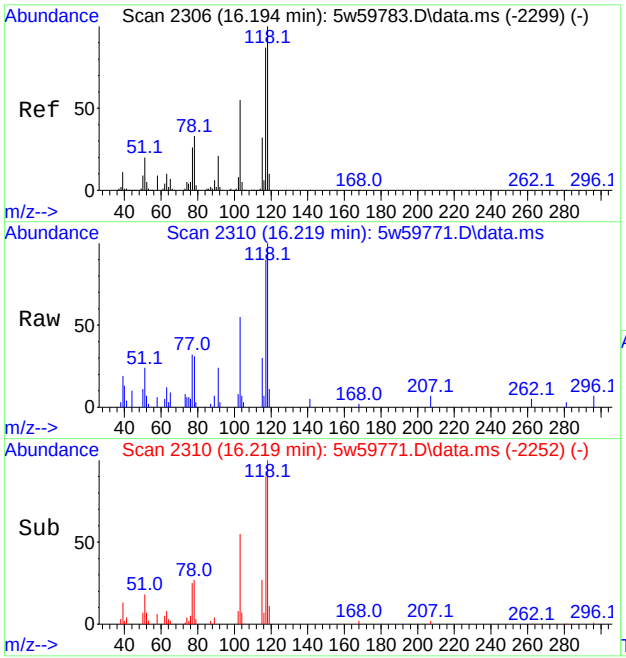


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.26 PPBV
RT: 16.048 min Scan# 2282
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48446

Ion	Ratio	Lower	Upper
105	100		
120	45.0	19.4	79.4
91	13.3	0.0	40.8

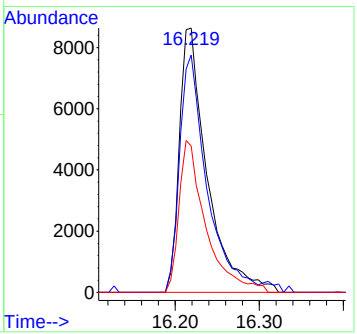


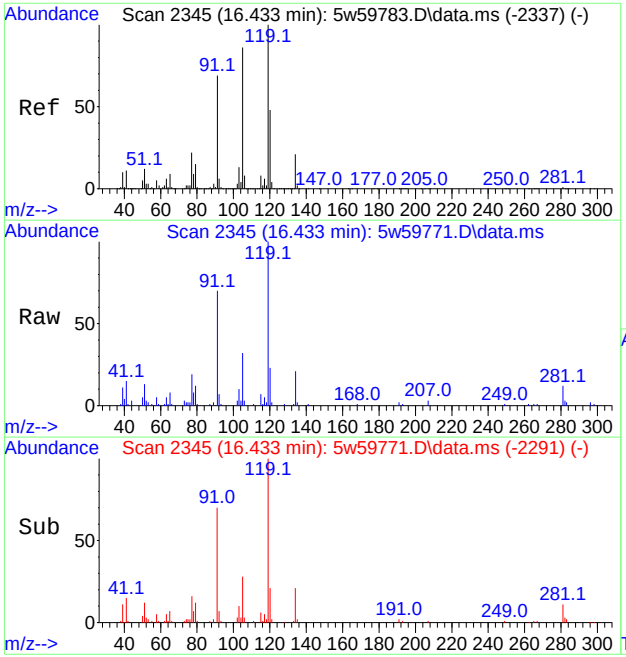


#94
ALPHA-METHYLSTYRENE
Concen: 0.19 PPBV
RT: 16.219 min Scan# 2310
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:118 Resp: 19855

Ion	Ratio	Lower	Upper
118	100		
117	90.9	60.9	113.1
103	55.4	38.6	71.8

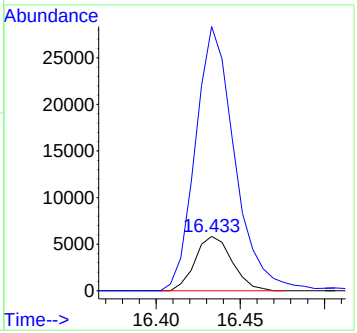


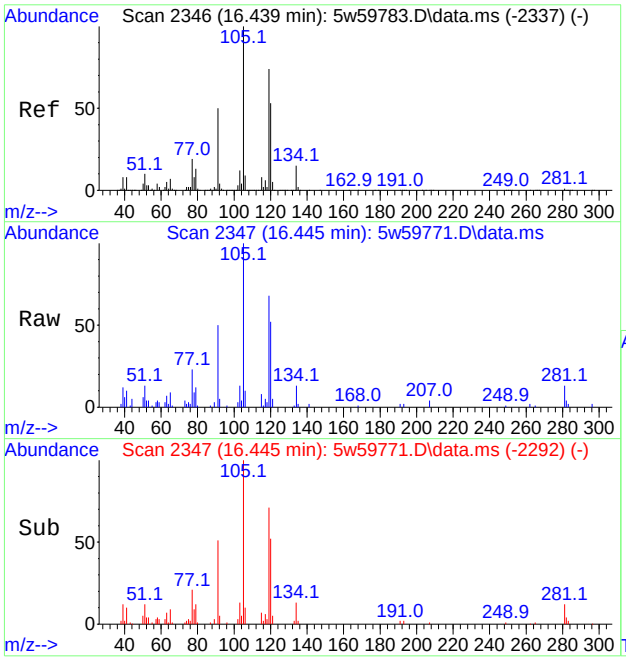


#95
tert-BUTYLBENZENE
Concen: 0.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 8909

Ion	Ratio	Lower	Upper
134	100		
119	524.3	459.3	519.3#

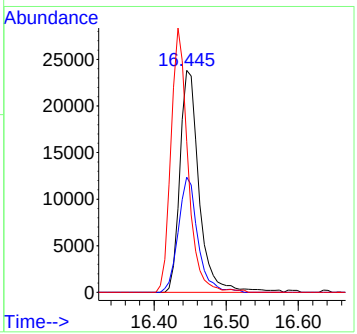


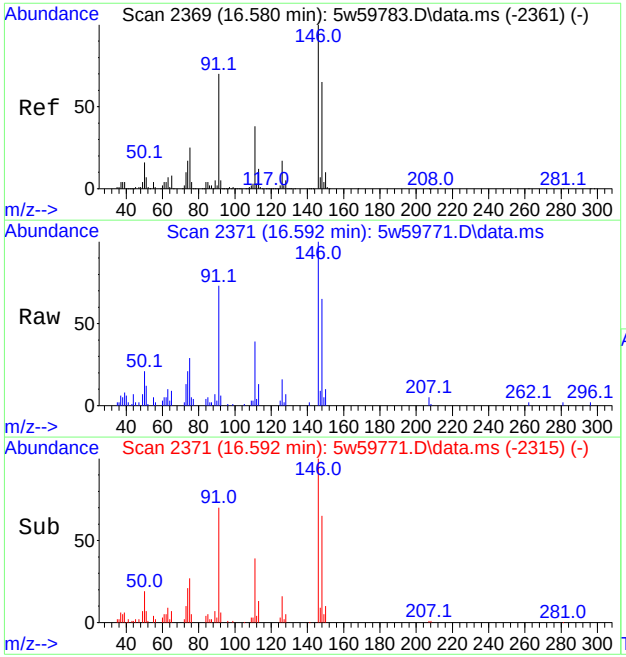


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 44191

Ion	Ratio	Lower	Upper
105	100		
120	52.7	25.7	85.7
119	105.7	75.7	135.7

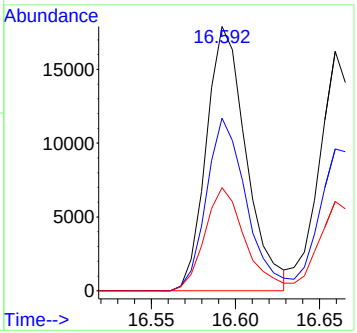


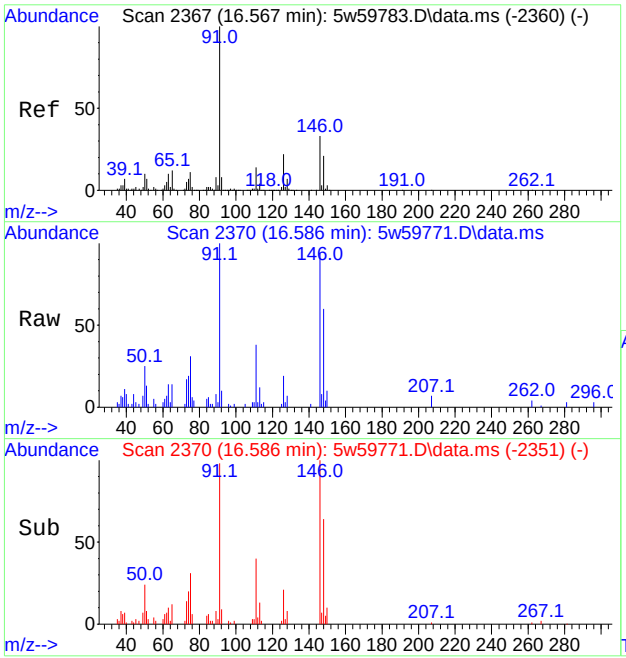


#97
m-DICHLOROBENZENE
Concen: 0.20 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 29601

Ion	Ratio	Lower	Upper
146	100		
148	66.0	34.8	94.8
111	39.3	8.2	68.2

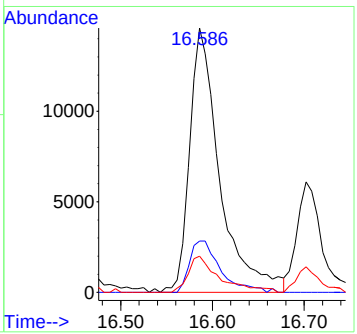


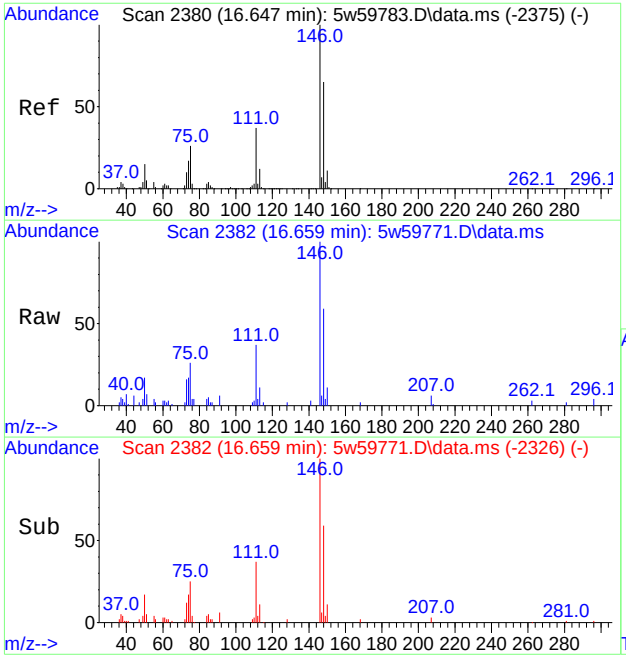


#98
BENZYL CHLORIDE
Concen: 0.19 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 33418

Ion	Ratio	Lower	Upper
91	100		
126	20.0	0.0	51.7
65	14.3	0.0	42.2

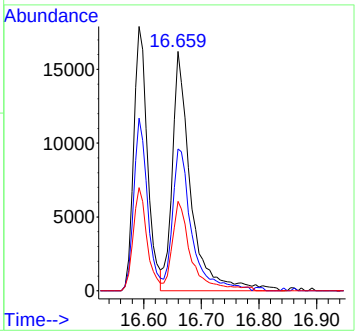


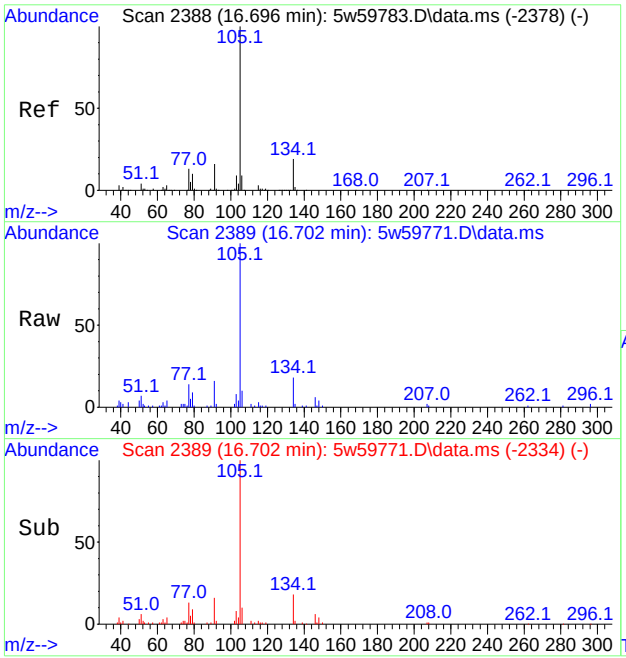


#99
p-DICHLOROBENZENE
Concen: 0.24 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 36208

Ion	Ratio	Lower	Upper
146	100		
148	61.8	34.6	94.6
111	38.4	6.7	66.7

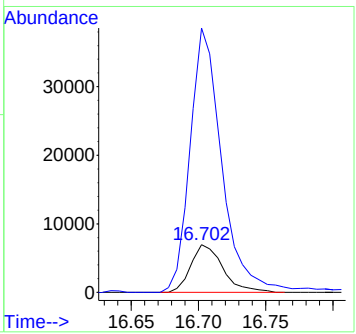


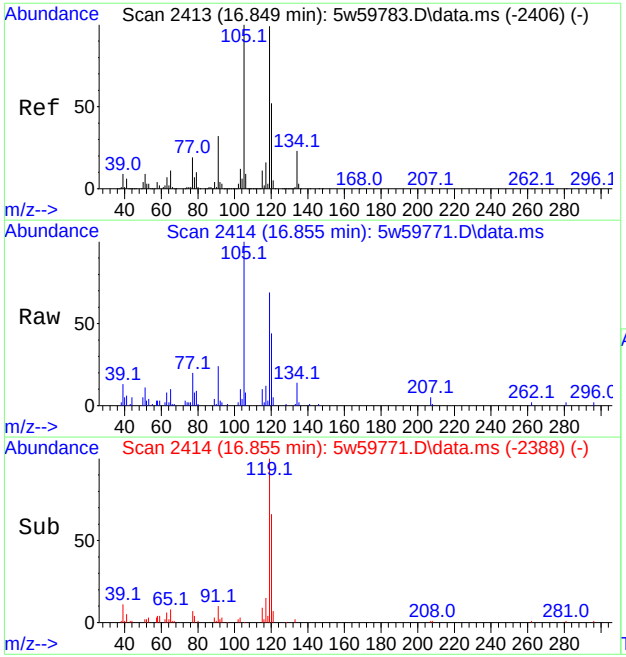


#100
sec-BUTYLBENZENE
Concen: 0.23 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 11583

Ion	Ratio	Lower	Upper
134	100		
105	557.6	502.5	562.5

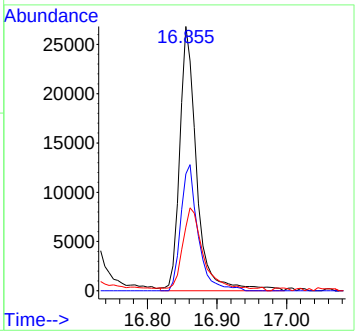


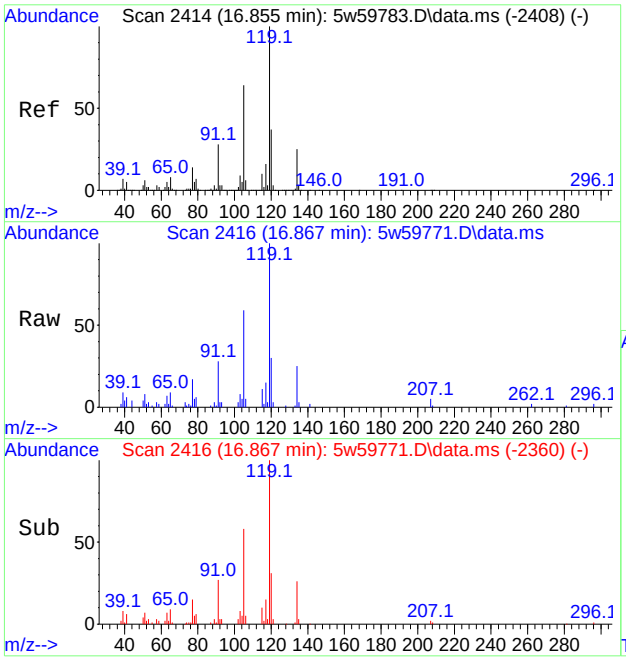


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 45724

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	39.5	7.4	67.4

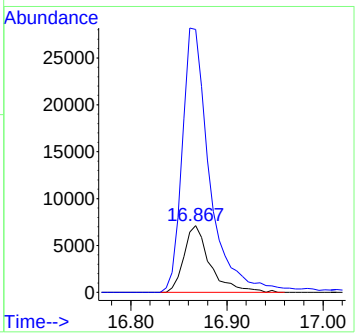




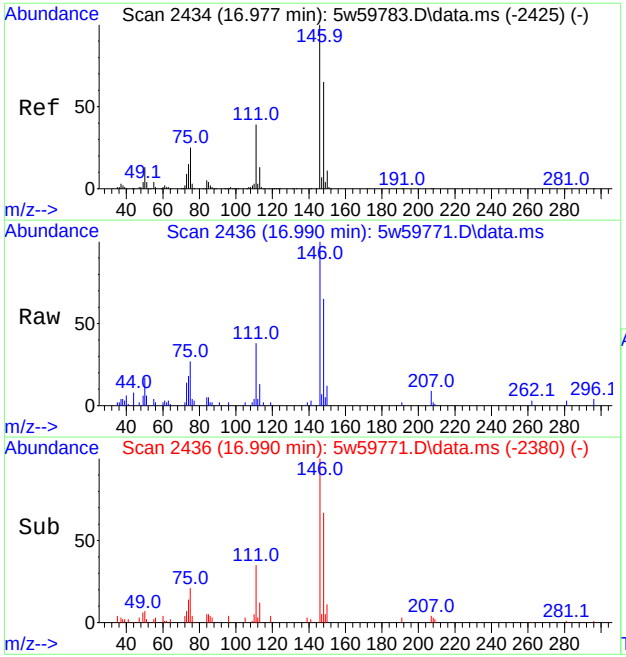
#102
p-ISOPROPYLTOLUENE
Concen: 0.23 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 13423

Ion	Ratio	Lower	Upper
134	100		
119	423.6	377.7	437.7



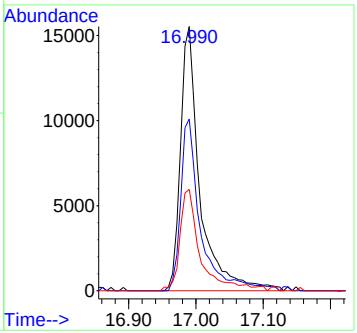
7.7.3

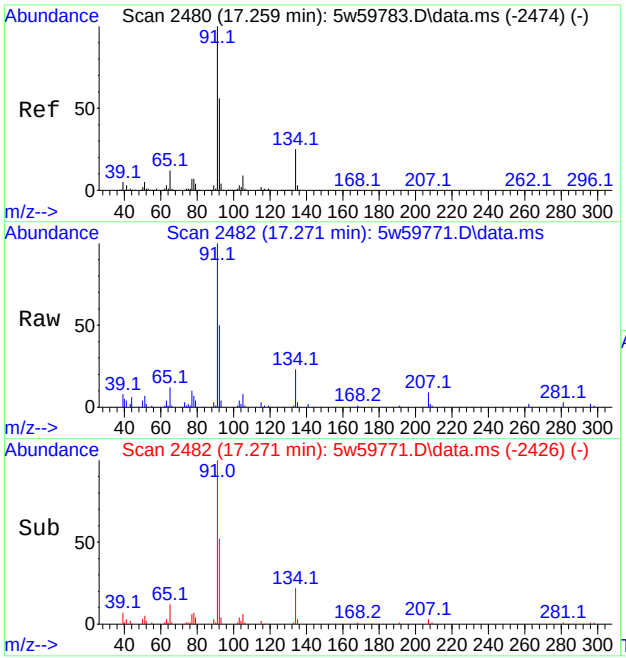


#103
o-DICHLOROBENZENE
Concen: 0.22 PPBV
RT: 16.990 min Scan# 2436
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 31360

Ion	Ratio	Lower	Upper
146	100		
148	65.8	34.3	94.3
111	40.0	9.2	69.2

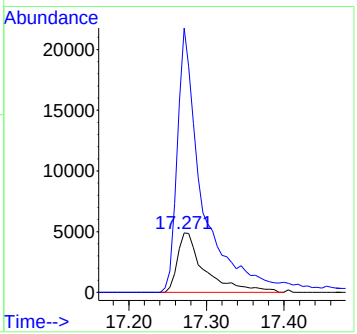


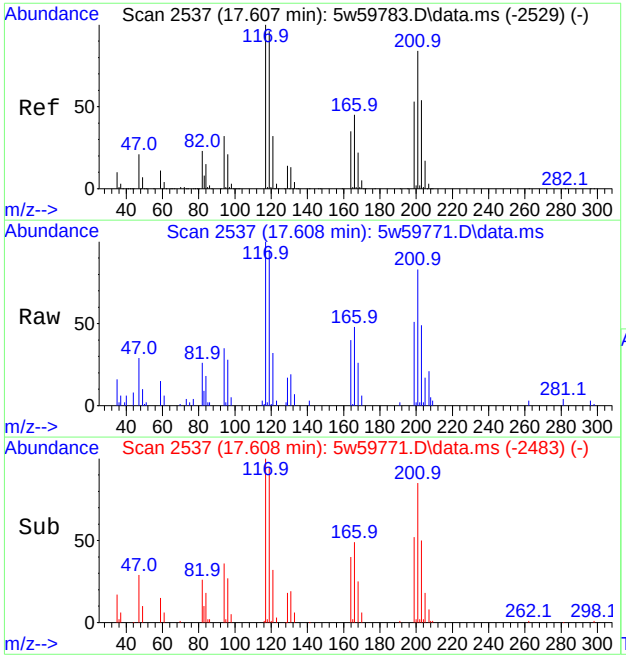


#104
n-BUTYLBENZENE
Concen: 0.20 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 12074

Ion	Ratio	Lower	Upper
134	100		
91	432.2	363.1	423.1#

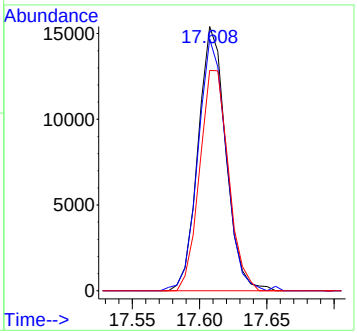


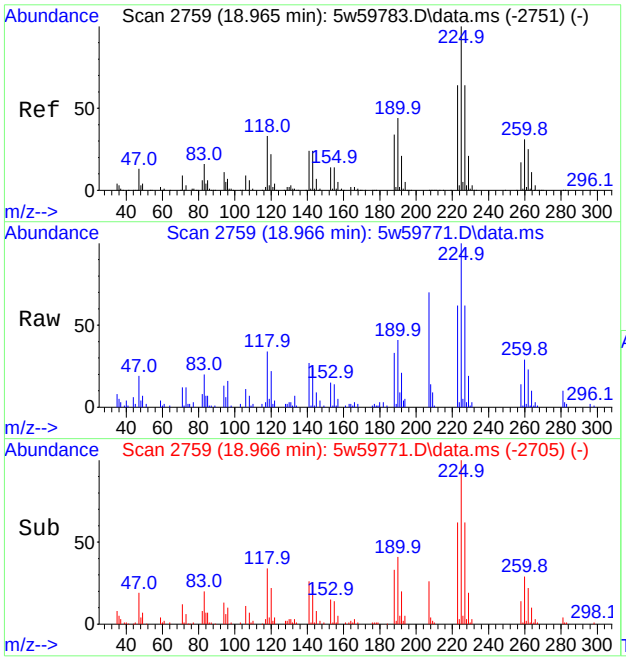


#105
HEXACHLOROETHANE
Concen: 0.23 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 22122

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.2	124.8
201	86.3	61.1	113.5

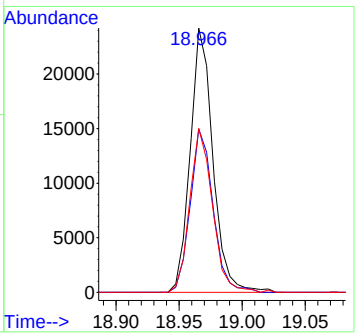


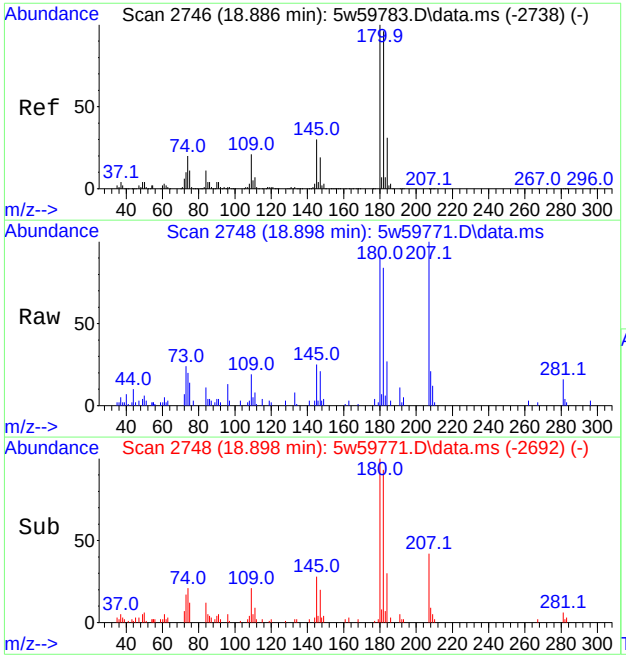


#106
HEXACHLOROBUTADIENE
Concen: 0.23 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:225 Resp: 30270

Ion	Ratio	Lower	Upper
225	100		
227	62.2	34.2	94.2
223	62.0	33.3	93.3

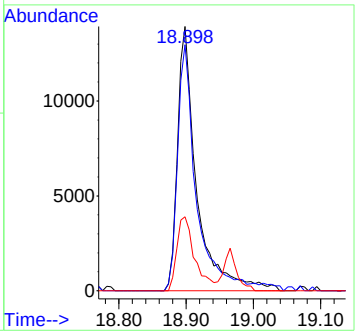


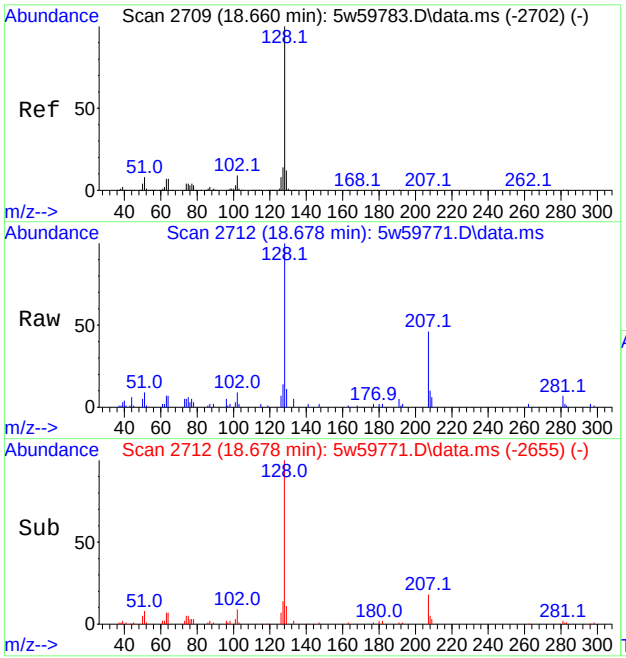


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.21 PPBV
RT: 18.898 min Scan# 2748
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:180 Resp: 27720

Ion	Ratio	Lower	Upper
180	100		
182	93.4	65.4	125.4
145	26.0	0.0	59.4

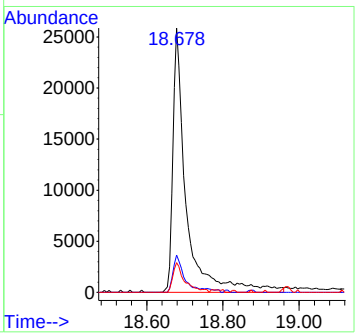


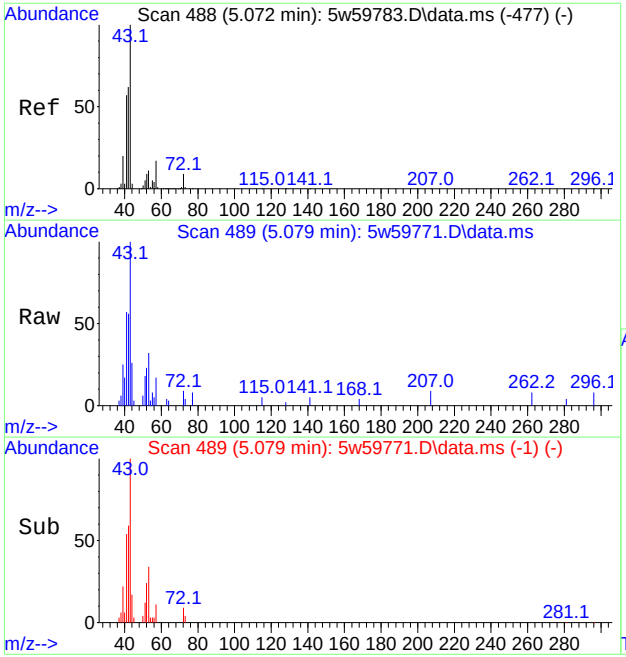


#108
NAPHTHALENE
Concen: 0.22 PPBV
RT: 18.678 min Scan# 2712
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:128 Resp: 62904

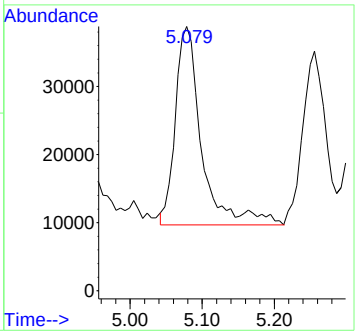
Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	43.3
129	9.9	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:TIC Resp: 73523



7.7.3

7

Manual Integration Approval Summary

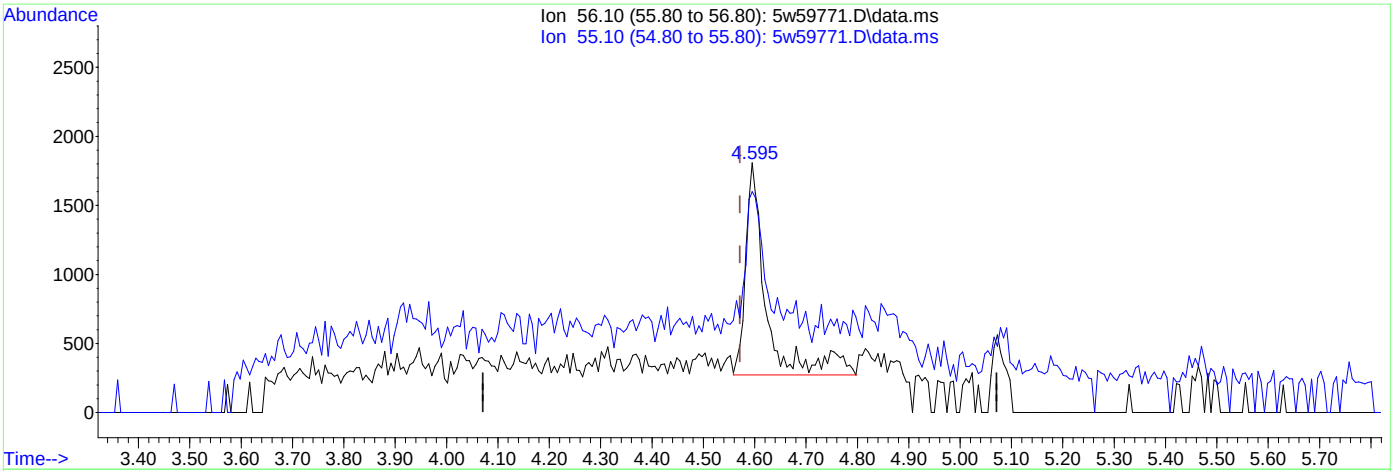
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59771.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:50 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

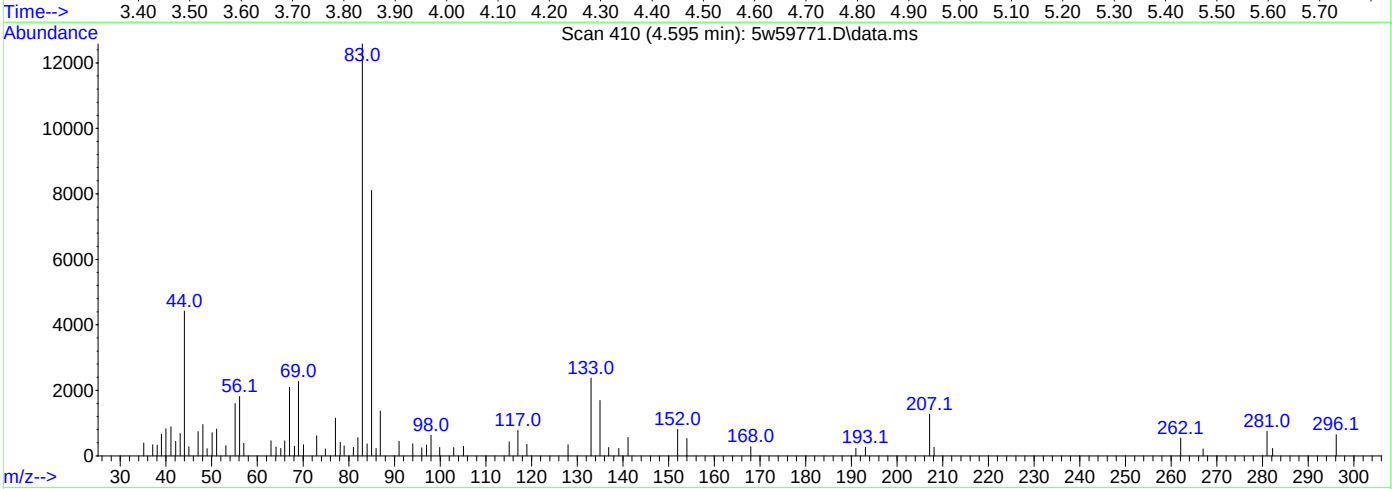
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl Acrylate	96-33-3		7.49	Missed peak
Ethyl Acetate	141-78-6		7.50	Poor instrument integration
Ethyl Acrylate	140-88-5		9.80	Missed peak
1,3-Dichloropropane	142-28-9		11.78	Poor instrument integration
2-Hexanone	591-78-6		12.17	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.29PPBV

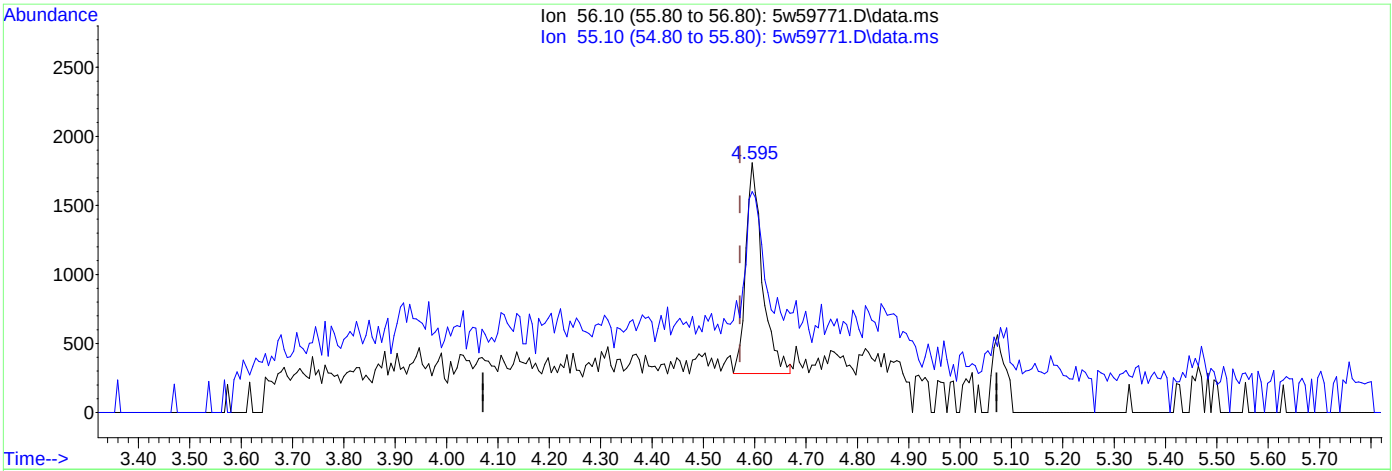
response 4217

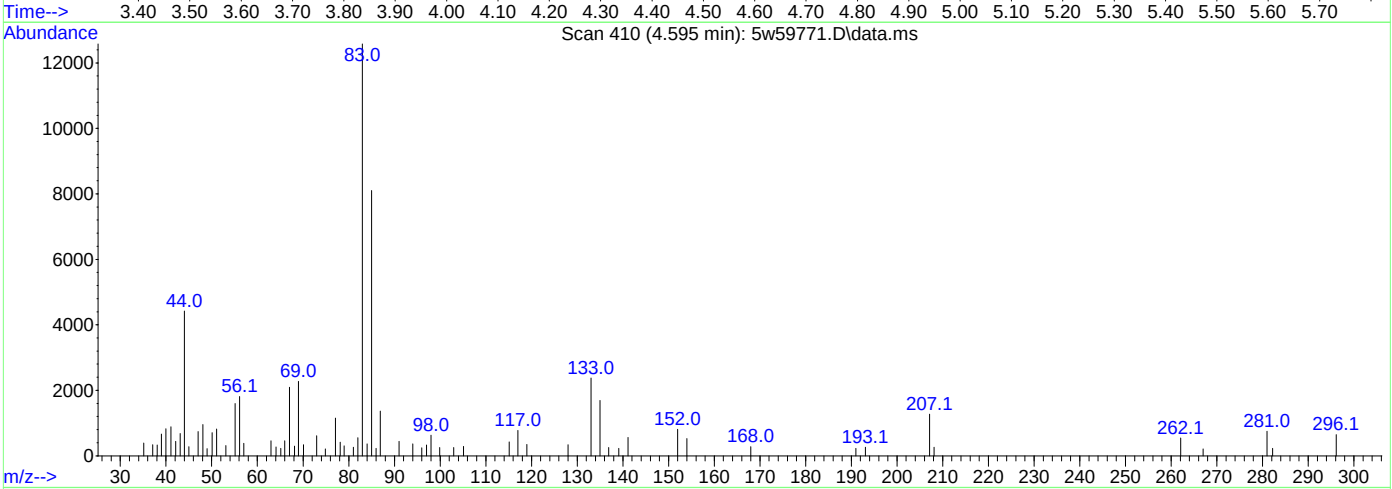
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	80.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.24PPBV m

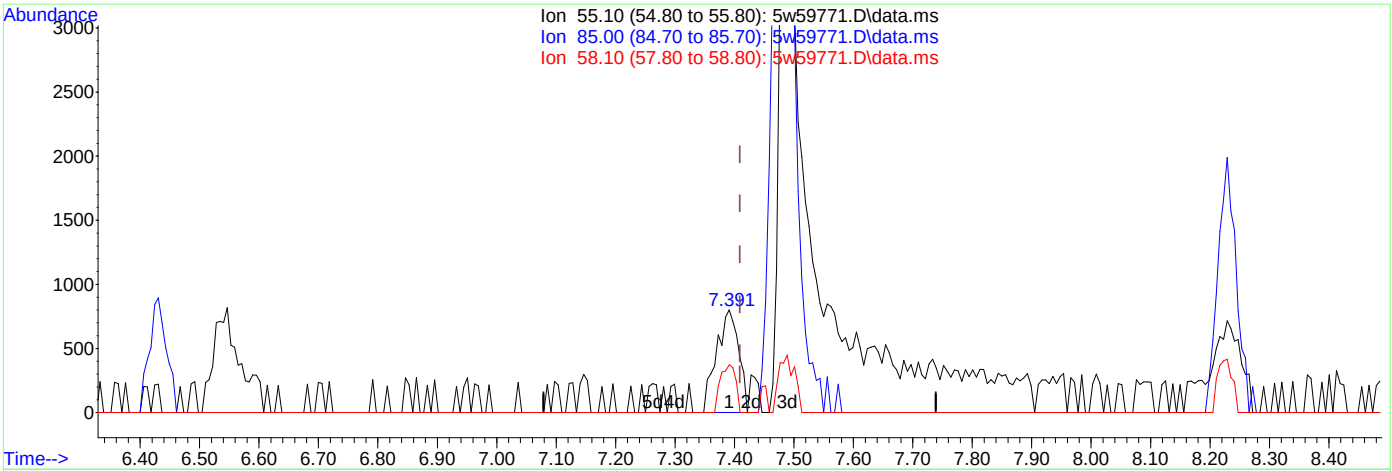
response 3414

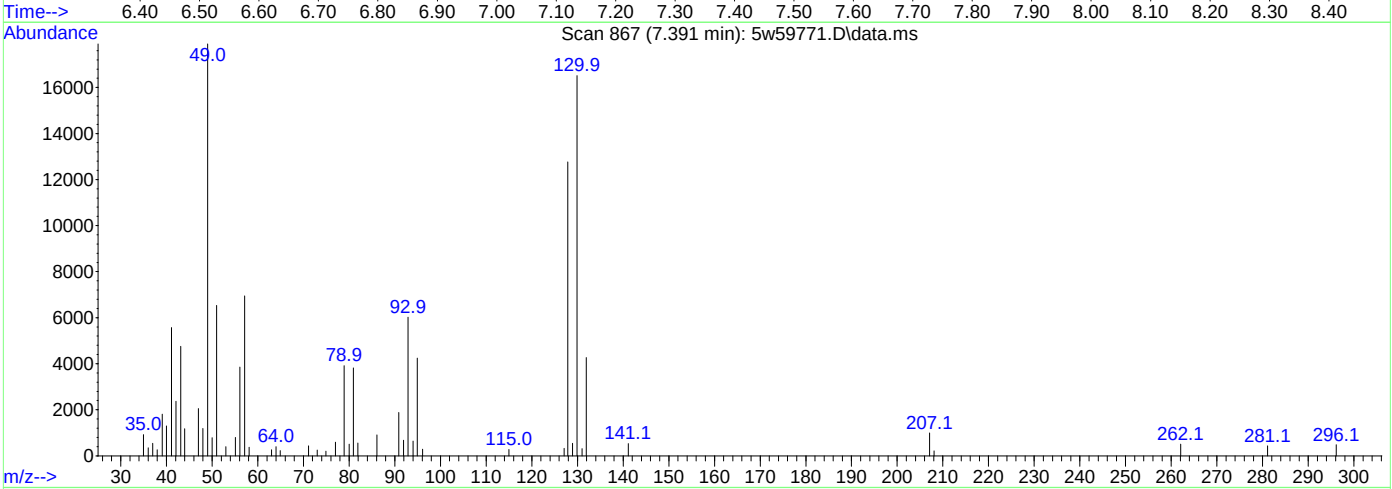
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	99.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.391min (-0.018) 0.03PPBV

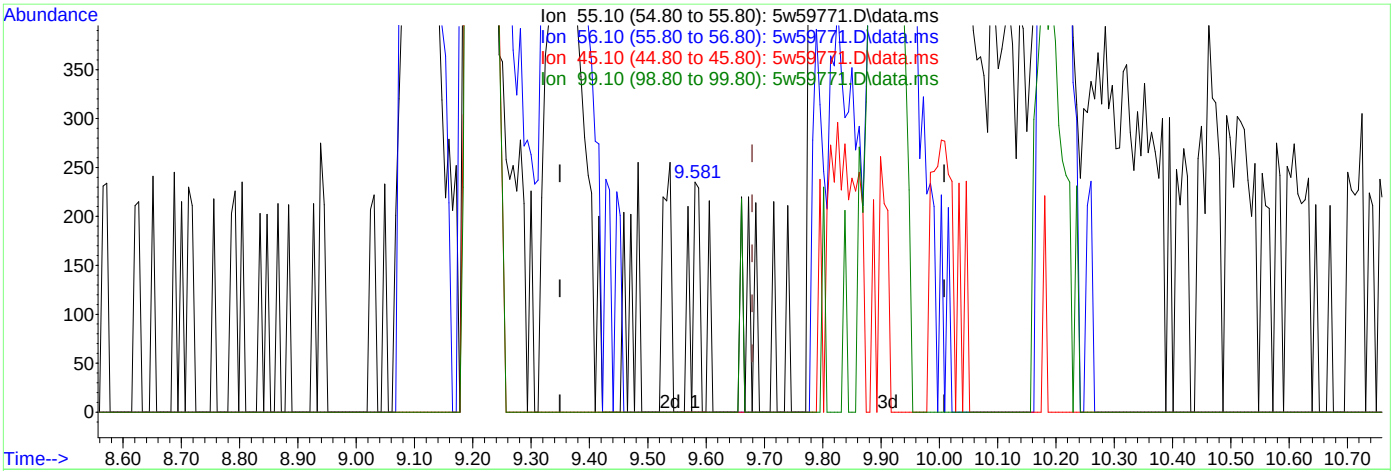
response 2074

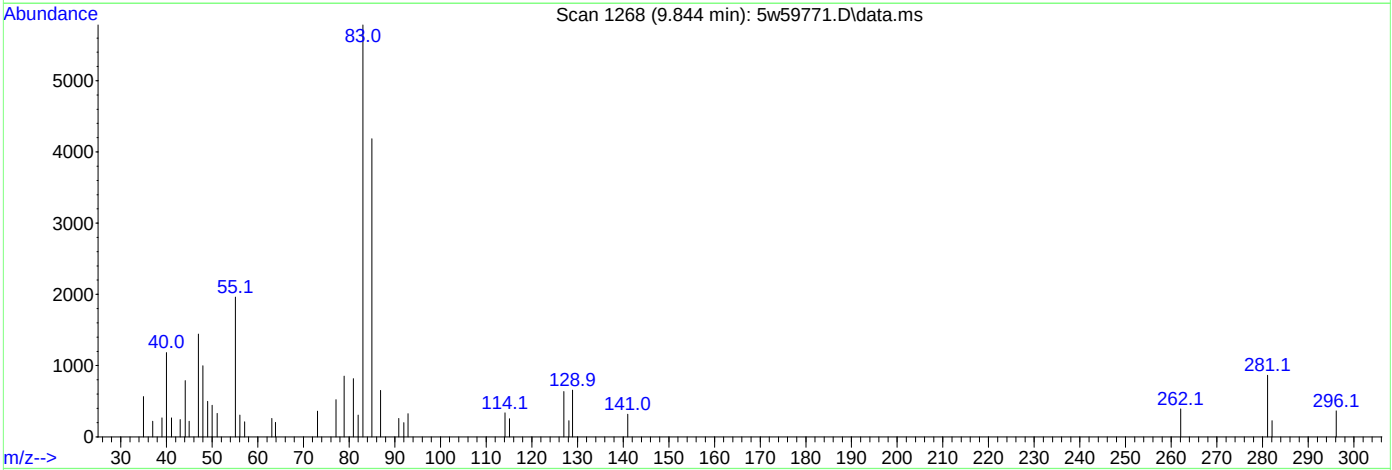
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	31.97#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.581min (-0.098) 0.00PPBV

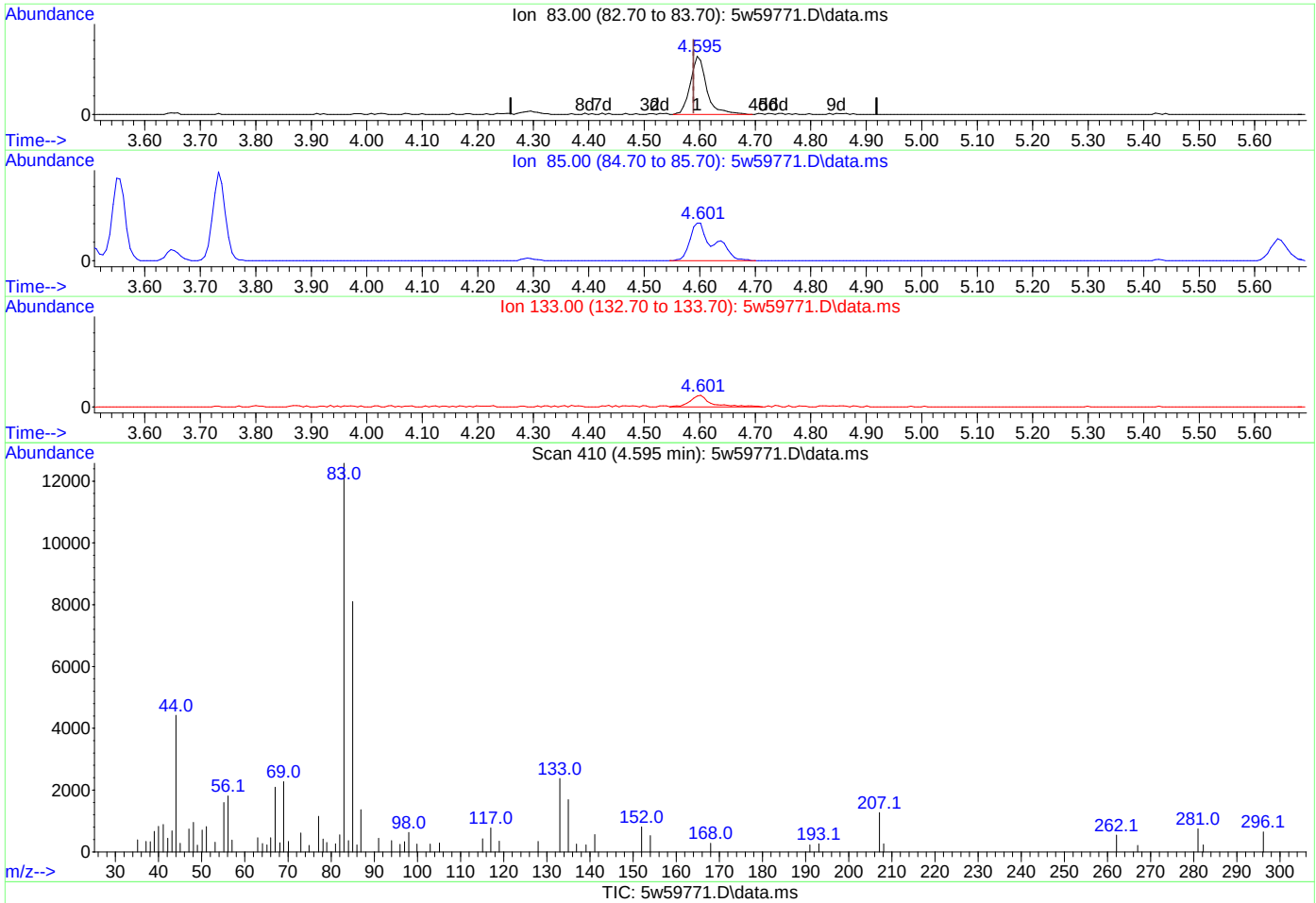
response 247

Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV

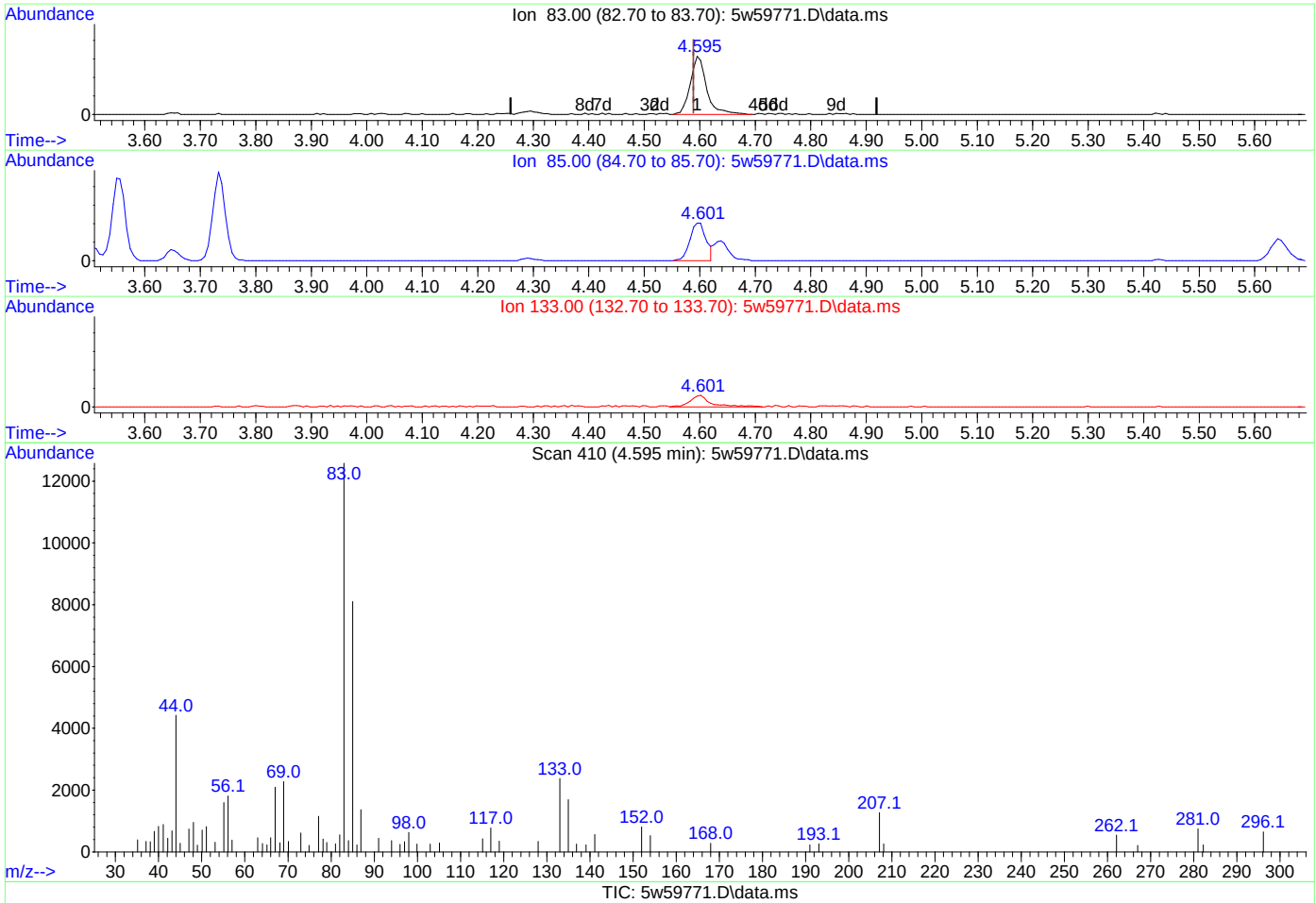
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.04#
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV m

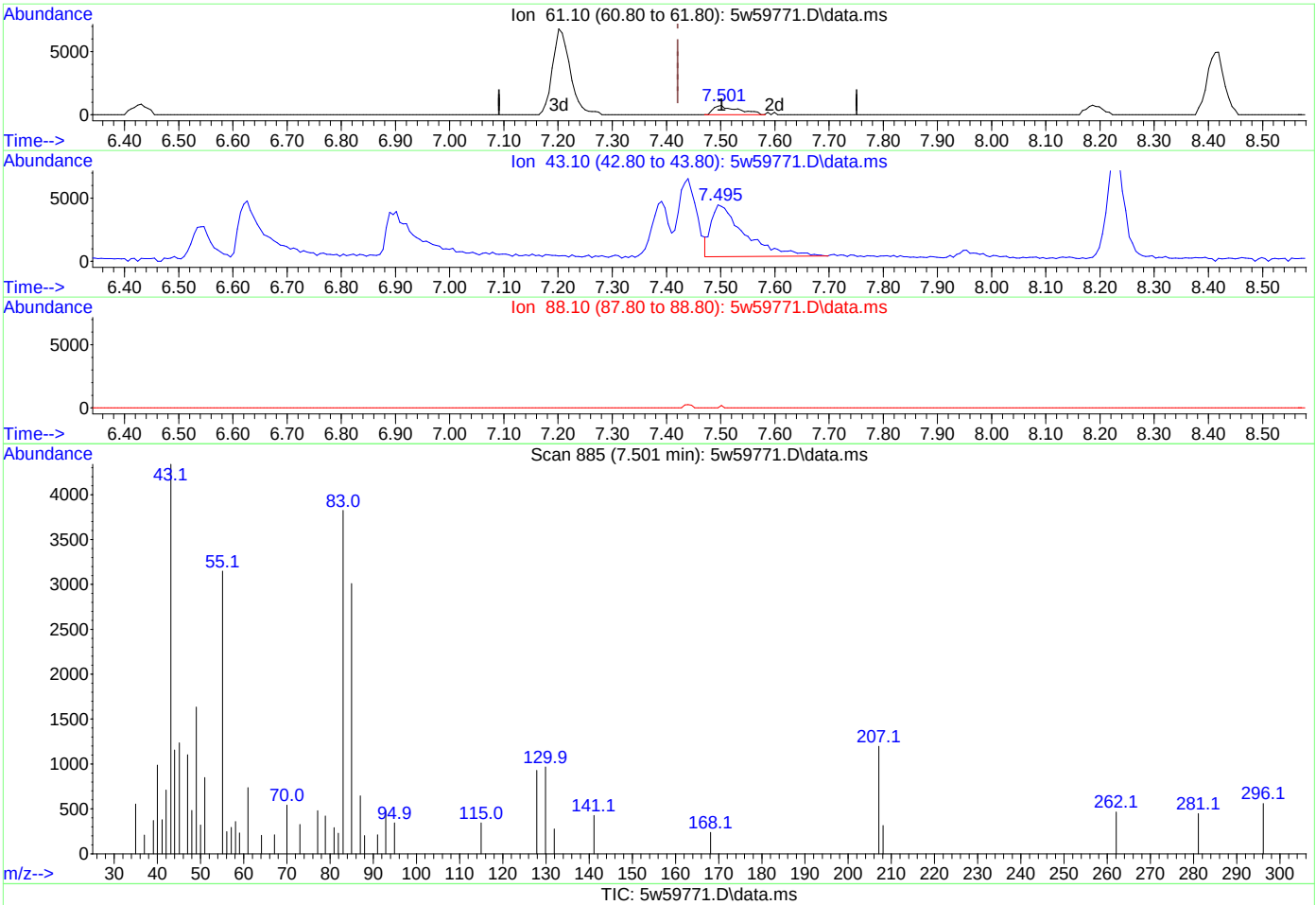
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	64.29
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV

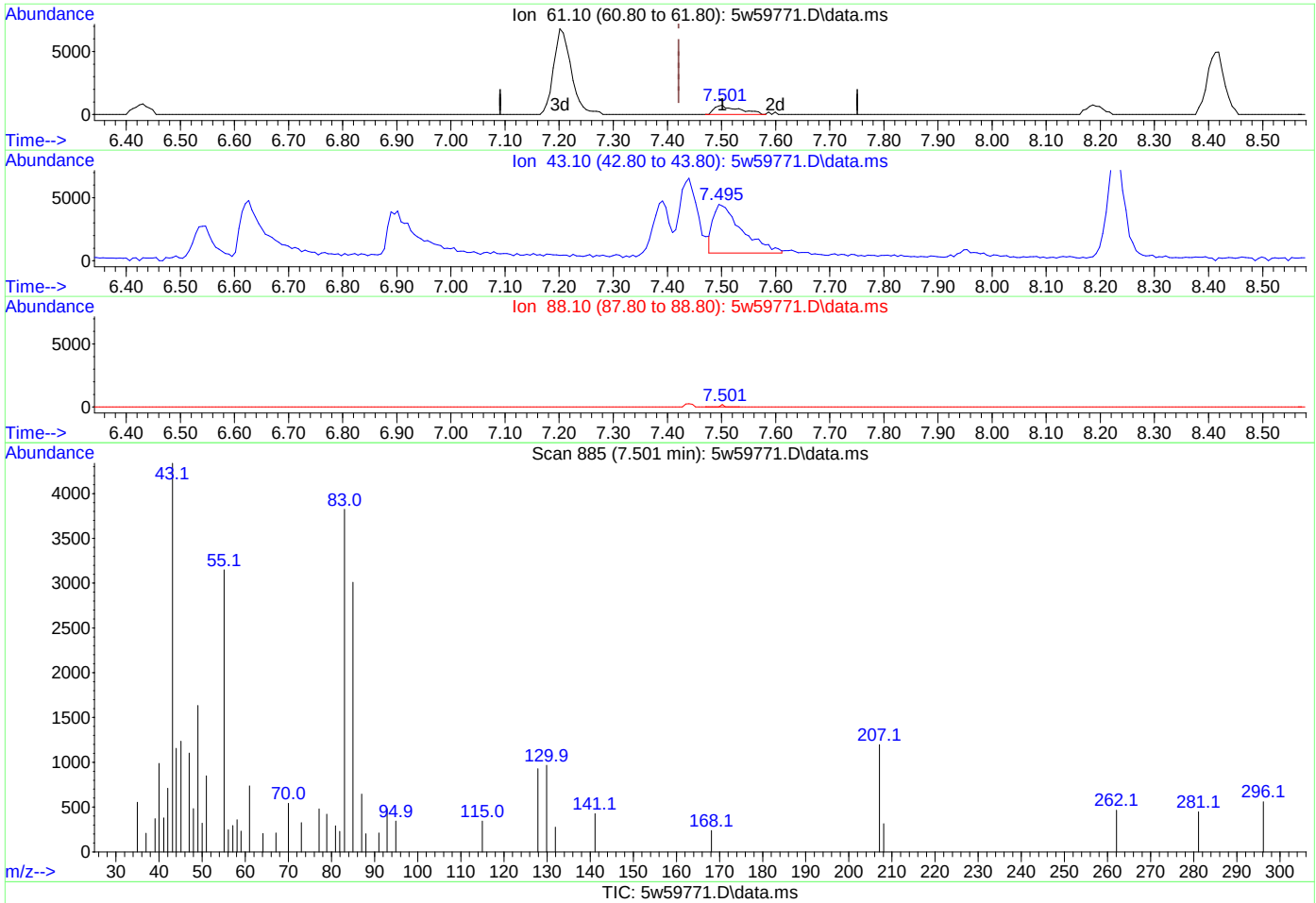
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	764.40#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV m

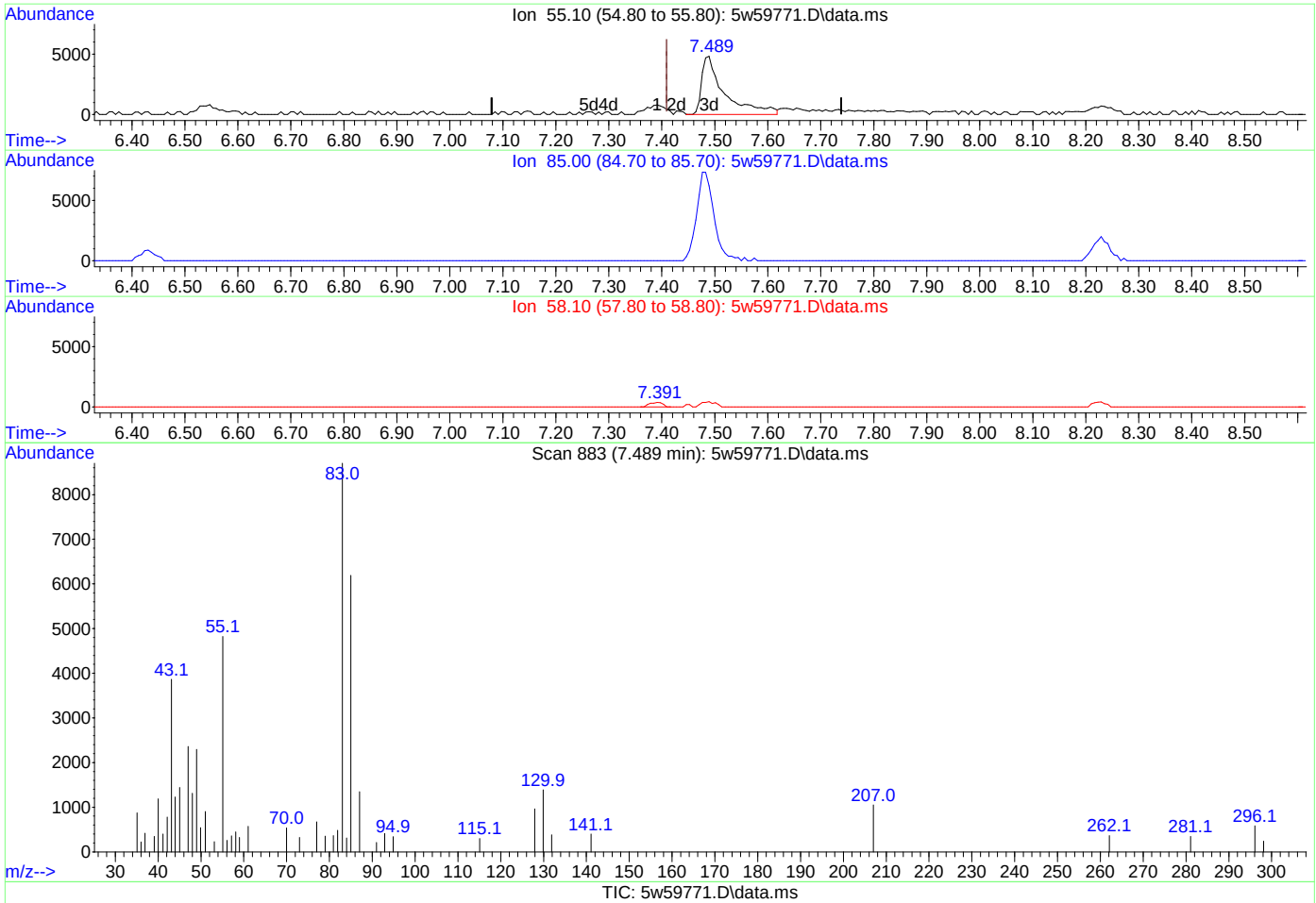
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	613.12
88.10	34.50	3.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.489min (+0.080) 0.17PPBV m

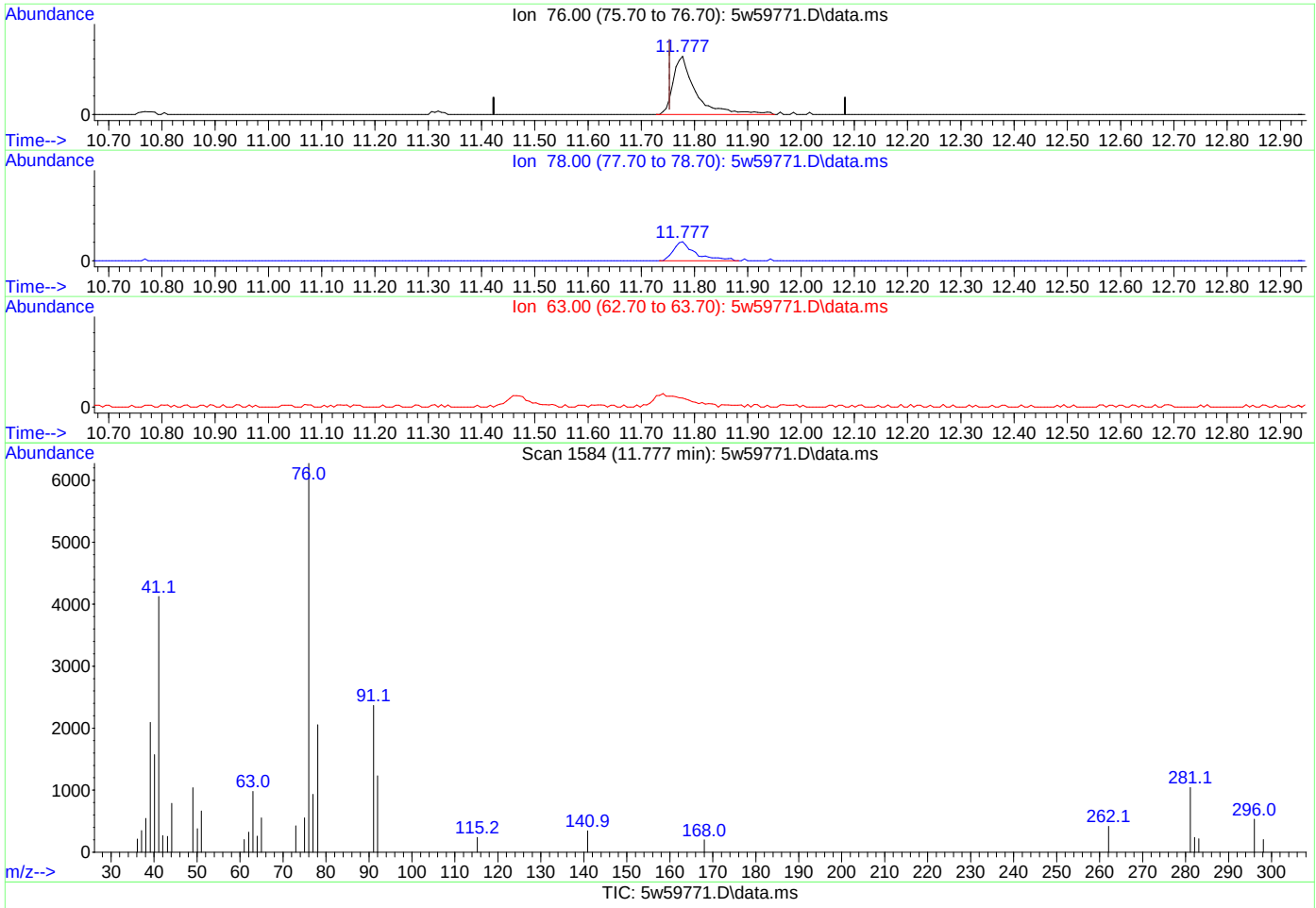
response 14366

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	4.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV

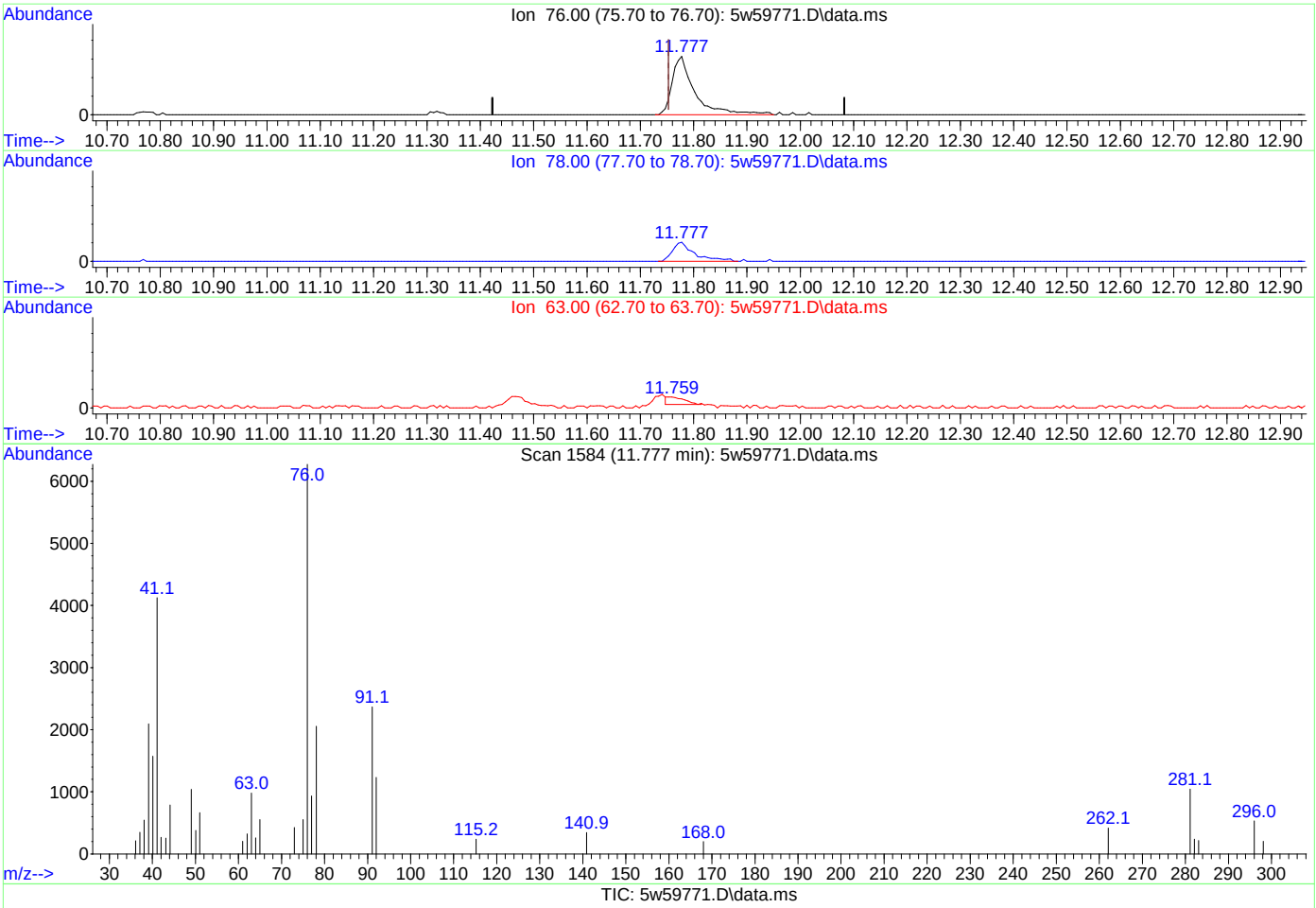
response 18562

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV m

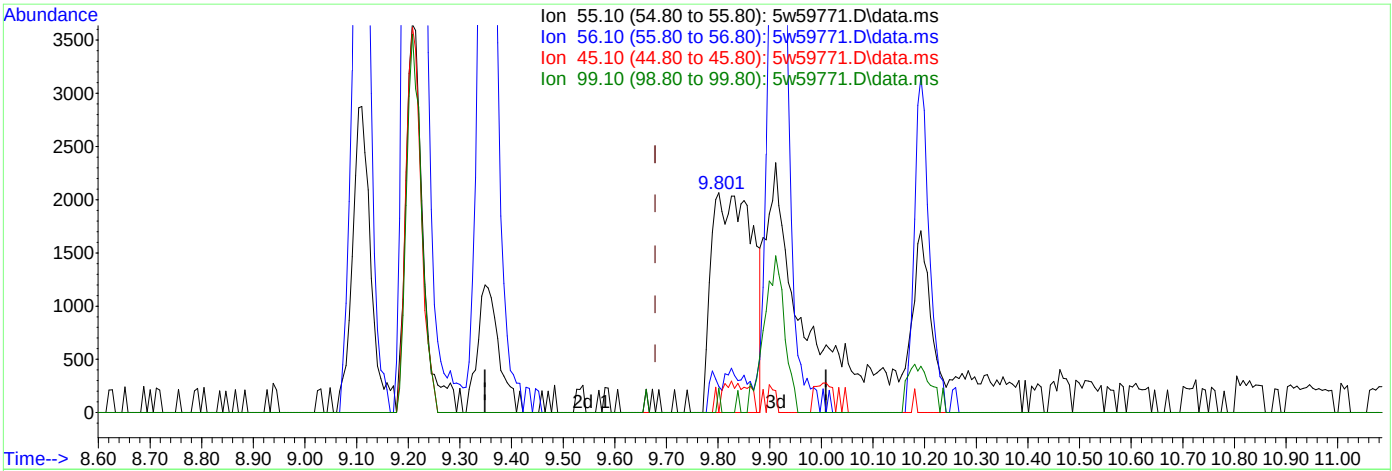
response 18562

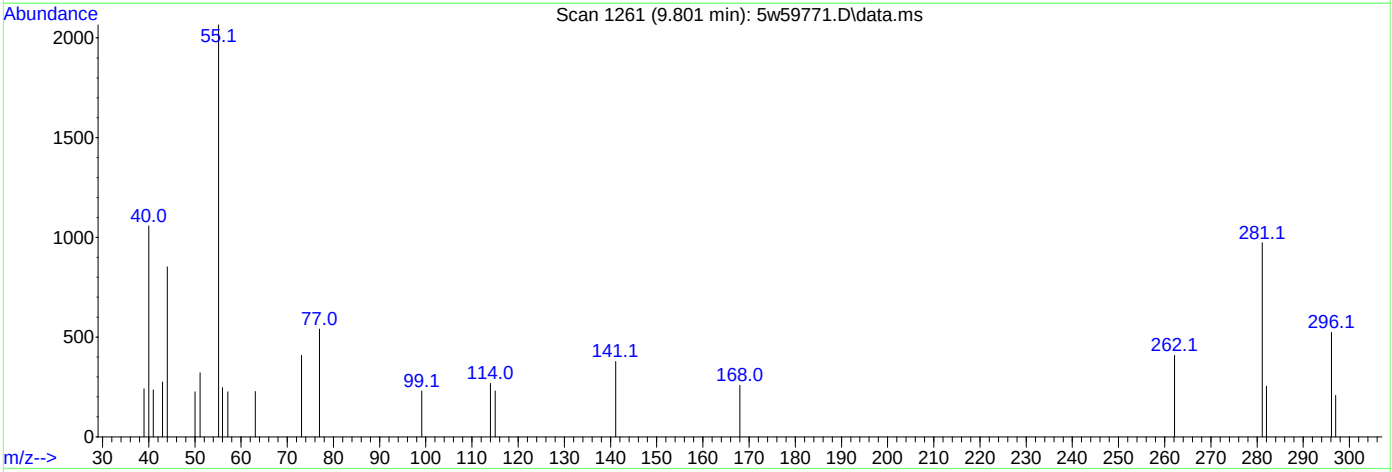
Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	9.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:17:39 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.801min (+0.122) 0.10PPBV m

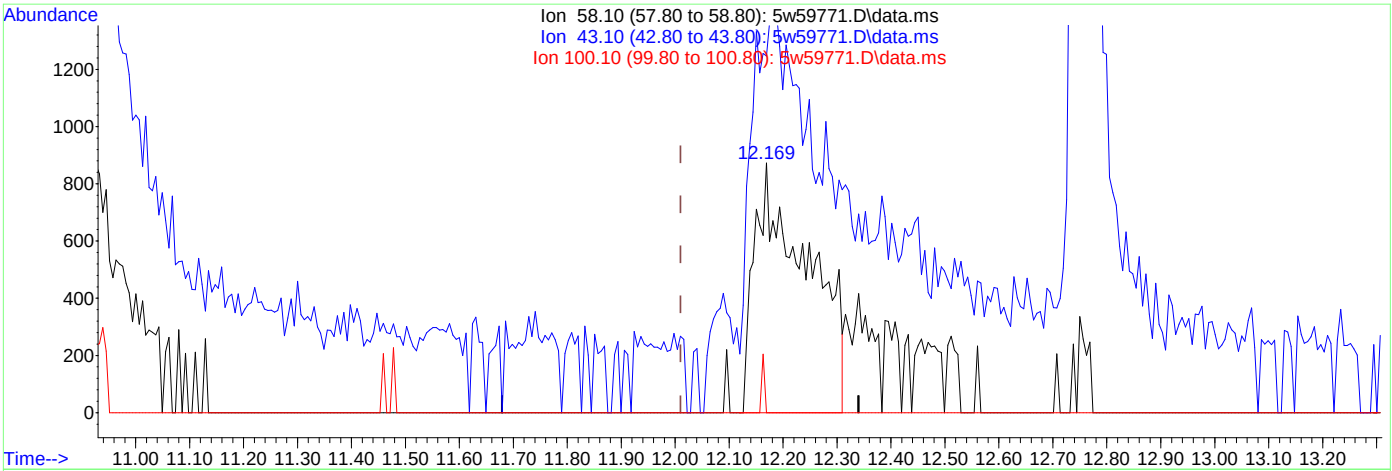
response 11494

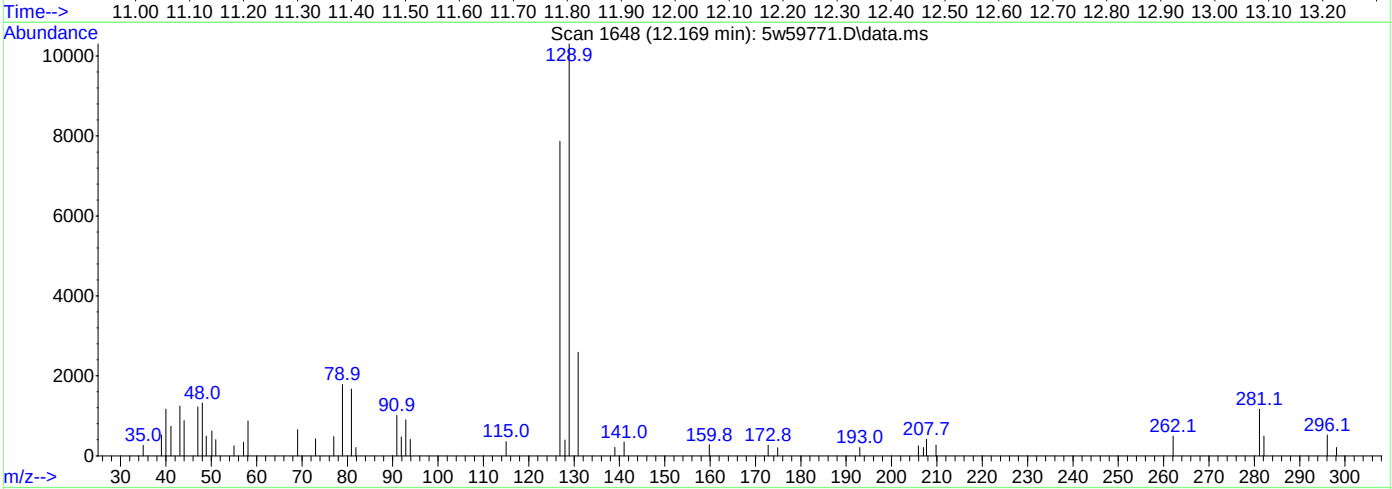
Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.11PPBV

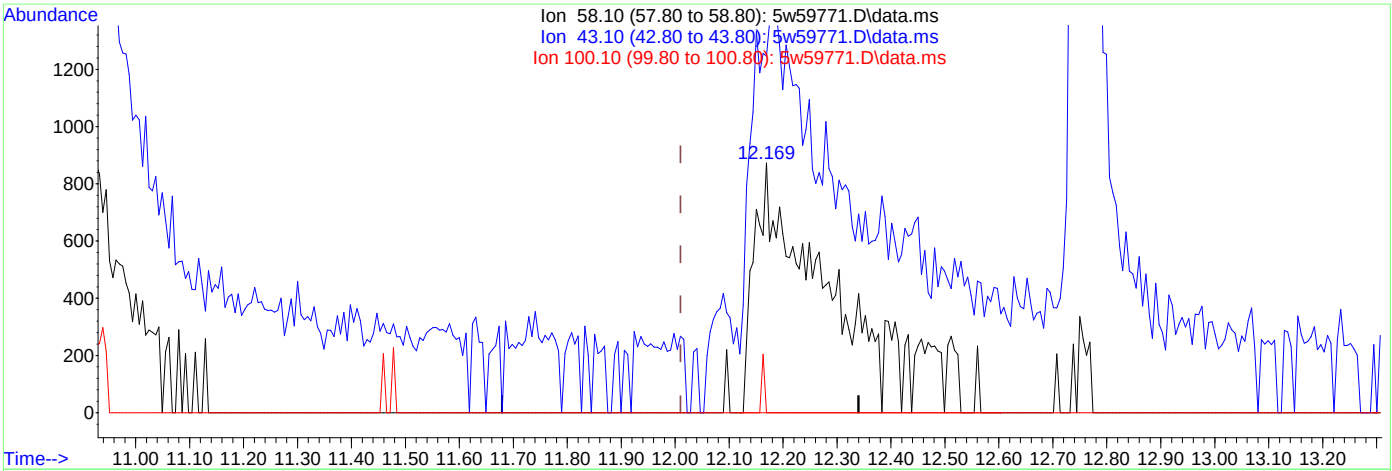
response 5939

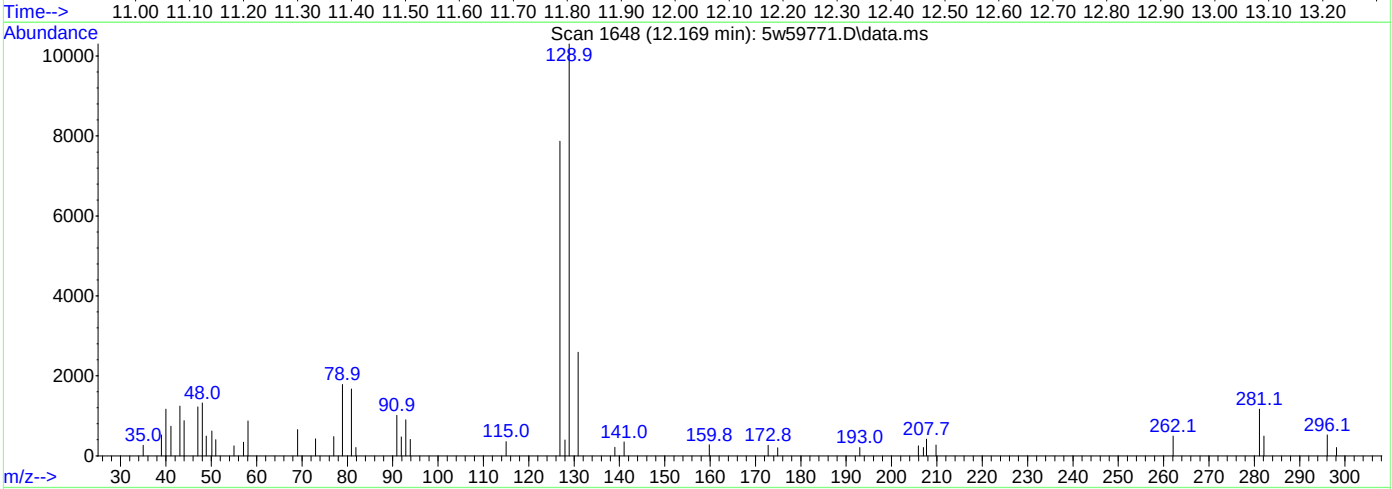
Ion	Exp%	Act%
58.10	100	100
43.10	167.20	158.80
100.10	16.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.16PPBV m

response 9038

Ion	Exp%	Act%
58.10	100	100
43.10	167.20	104.35#
100.10	16.90	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	472964	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2121089	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1052969	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	476464	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1418470	11.18	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.80%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	21944	0.27	PPBV		98
3) FREON 152A	3.445	65	16180	0.33	PPBV		98
4) CHLORODIFLUOROMETHANE	3.476	67	7935	0.34	PPBV		97
5) CHLOROTRIFLUOROETHENE	3.500	116	37384	0.32	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	74611	0.34	PPBV		99
7) PROPYLENE	3.500	41	19764	0.39	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	65023	0.39	PPBV		98
9) FREON 114	3.732	85	75616	0.38	PPBV		98
10) CHLOROMETHANE	3.665	52	8248	0.38	PPBV		89
11) VINYL CHLORIDE	3.818	62	25119	0.33	PPBV		95
12) 1,3-BUTADIENE	3.910	54	15745	0.37	PPBV		97
13) n-BUTANE	3.947	43	26092	0.38	PPBV	#	94
14) BROMOMETHANE	4.106	94	25633	0.33	PPBV		84
15) CHLOROETHANE	4.222	64	12538	0.39	PPBV		96
16) DICHLOROFLUOROMETHANE	4.289	67	56285	0.36	PPBV		97
17) ACETONITRILE	4.497	41	14827	0.37	PPBV		98
18) ACROLEIN	4.589	56	7542m	0.30	PPBV		
19) FREON 123	4.589	83	65470m	0.37	PPBV		
20) FREON 123A	4.632	117	39245	0.38	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.791	101	67375	0.36	PPBV		98
22) ISOPROPYL ALCOHOL	4.907	45	51138	0.37	PPBV		95
23) ACETONE	4.705	58	10630	0.38	PPBV		97
24) PENTANE	5.072	42	25466	0.38	PPBV		99
25) IODOMETHANE	5.250	142	79998	0.35	PPBV		100
26) 1,1-DICHLOROETHYLENE	5.317	96	27579	0.36	PPBV		96
27) CARBON DISULFIDE	5.672	76	72450	0.34	PPBV		99
28) ETHANOL	4.338	45	9883	0.39	PPBV		97
29) BROMOETHENE	4.479	106	27007	0.35	PPBV		98
30) ACRYLONITRILE	5.060	52	17143	0.37	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	22923	0.34	PPBV		98
32) 3-CHLOROPROPENE	5.525	76	12479	0.36	PPBV	#	88
33) FREON 113	5.641	151	45001	0.33	PPBV		99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	28115	0.35	PPBV		87
35) TERTIARY BUTYL ALCOHOL	5.439	59	48711	0.31	PPBV		96
36) METHYL TERTIARY BUTYL ...	6.516	73	72222	0.36	PPBV		95
37) TETRAHYDROFURAN	7.917	72	9128	0.29	PPBV	#	81
38) HEXANE	7.385	57	38643	0.34	PPBV		92
39) VINYL ACETATE	6.602	86	2461	0.19	PPBV	#	68
40) 1,1-DICHLOROETHANE	6.424	63	51689	0.36	PPBV		98
41) METHYL ETHYL KETONE	6.859	72	9022	0.28	PPBV		97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	29380	0.35	PPBV		94
43) DIISOPROPYL ETHER	7.415	59	10994	0.31	PPBV	#	84
44) ETHYL ACETATE	7.470	61	7547	0.29	PPBV	#	73
45) METHYL ACRYLATE	7.452	55	42153m	0.30	PPBV		
46) CHLOROFORM	7.477	83	58038	0.34	PPBV		88
47) 2,4-DIMETHYLPENTANE	8.223	57	46136	0.34	PPBV		99
48) 1,1,1-TRICHLOROETHANE	8.413	97	60433	0.34	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	65062	0.33	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	41098	0.34	PPBV		99
52)	BENZENE	8.859	78	76538	0.34	PPBV		99
53)	CYCLOHEXANE	9.110	84	30877	0.34	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	14658	0.32	PPBV		92
55)	TRICHLOROETHYLENE	9.893	95	37369	0.32	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	33377	0.35	PPBV		96
57)	DIBROMOMETHANE	9.636	174	39103	0.31	PPBV		97
58)	ETHYL ACRYLATE	9.740	55	44771	0.25	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	64038	0.31	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	127085	0.35	PPBV		99
61)	1,4-DIOXANE	9.973	88	17043	0.32	PPBV	#	1
62)	HEPTANE	10.187	43	45917	0.38	PPBV		94
63)	METHYL METHACRYLATE	10.144	69	24229	0.31	PPBV	#	60
64)	METHYL ISOBUTYL KETONE	10.854	58	20298	0.27	PPBV		89
65)	cis-1,3-DICHLOROPROPENE	10.762	75	50330	0.32	PPBV		85
66)	TOLUENE	11.728	92	53175	0.31	PPBV		97
67)	1,3-DICHLOROPROPANE	11.765	76	45275	0.32	PPBV	#	92
68)	trans-1,3-DICHLOROPROPENE	11.300	75	44098	0.30	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.459	83	29376	0.31	PPBV		99
71)	2-HEXANONE	12.077	58	24053	0.25	PPBV		89
72)	ETHYL METHACRYLATE	12.053	69	39133	0.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	42039	0.36	PPBV		97
74)	DIBROMOCHLOROMETHANE	12.157	129	68347	0.33	PPBV		100
75)	1,2-DIBROMOETHANE	12.401	107	57560	0.36	PPBV		99
76)	OCTANE	12.750	43	57196	0.37	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	44229	0.34	PPBV		99
78)	CHLOROBENZENE	13.588	112	76482	0.36	PPBV		99
79)	ETHYLBENZENE	13.992	91	119442	0.37	PPBV		98
80)	m,p-XYLENE	14.175	106	91065	0.70	PPBV		98
81)	o-XYLENE	14.683	106	43793	0.35	PPBV		94
82)	STYRENE	14.585	104	68779	0.36	PPBV		91
83)	NONANE	14.934	43	61419	0.39	PPBV		97
84)	BROMOFORM	14.255	173	65517	0.31	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	78542	0.37	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.830	75	59513	0.37	PPBV		94
88)	ISOPROPYLBENZENE	15.301	105	132085	0.35	PPBV		99
89)	BROMOBENZENE	15.381	77	64086	0.34	PPBV		99
90)	2-CHLOROTOLUENE	15.778	126	34084	0.33	PPBV		96
91)	n-PROPYLBENZENE	15.821	120	35058	0.34	PPBV		100
92)	4-ETHYLTOLUENE	15.968	105	126699	0.35	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	115870	0.38	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.206	118	51966	0.31	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	23128	0.35	PPBV		93
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	112549	0.37	PPBV		98
97)	m-DICHLOROBENZENE	16.586	146	80323	0.33	PPBV		99
98)	BENZYL CHLORIDE	16.580	91	94193	0.31	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	89982	0.38	PPBV		99
100)	sec-BUTYLBENZENE	16.702	134	28746	0.34	PPBV	#	87
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	117540	0.37	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	34620	0.35	PPBV		94
103)	o-DICHLOROBENZENE	16.983	146	81336	0.35	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	31100	0.32	PPBV	#	83
105)	HEXACHLOROETHANE	17.607	117	56860	0.36	PPBV		98
106)	HEXACHLOROBUTADIENE	18.966	225	78824	0.35	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.892	180	74442	0.33	PPBV		99
108)	NAPHTHALENE	18.672	128	165689	0.33	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	163703	0.37	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

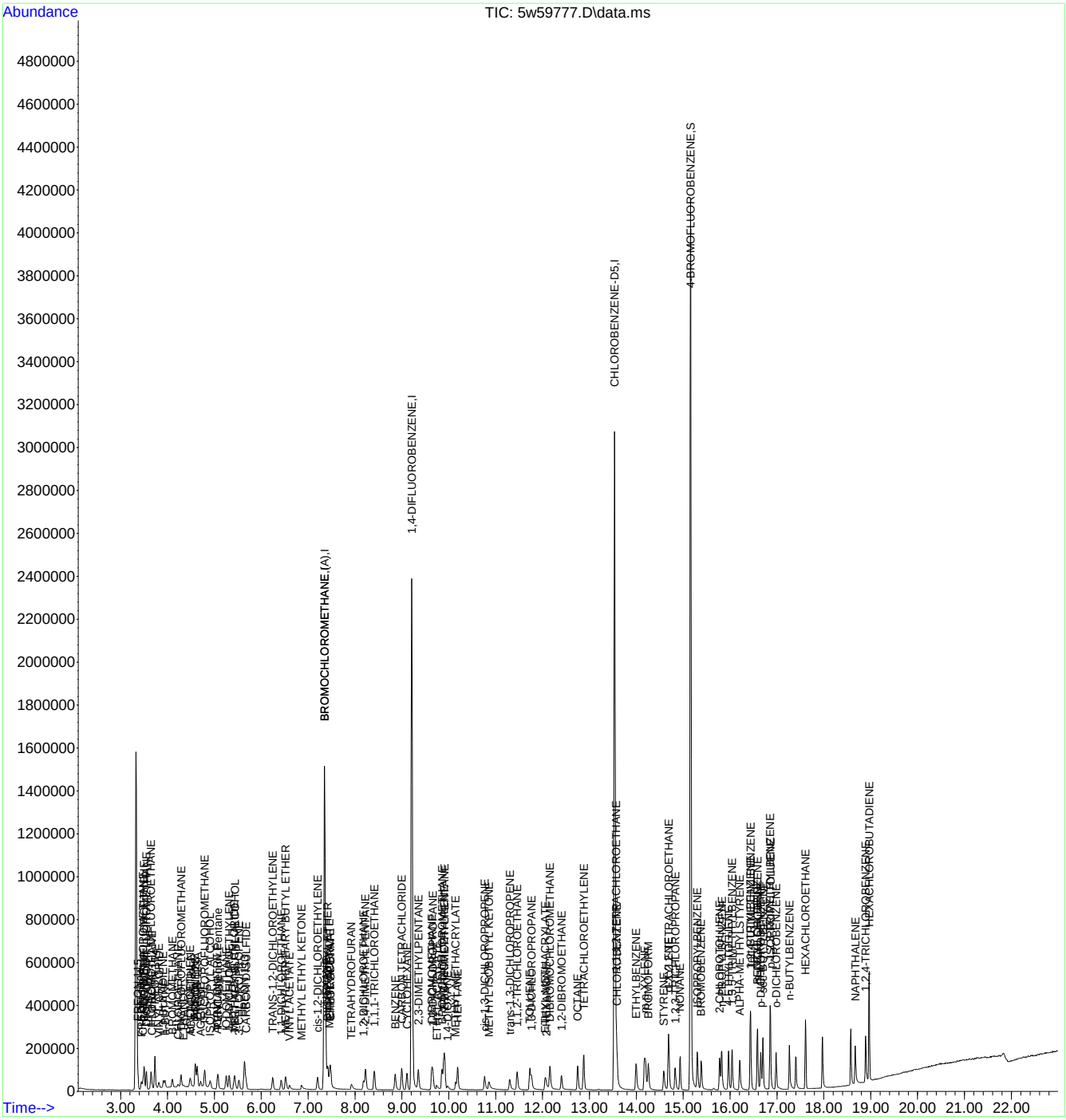
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

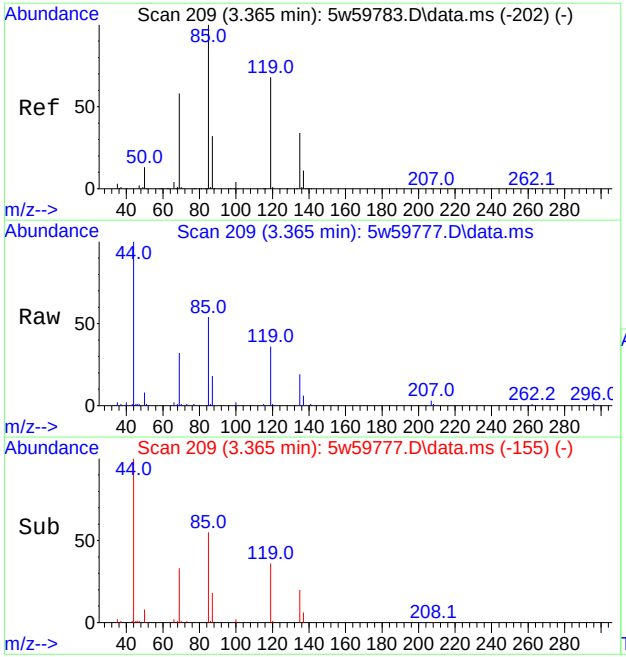
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

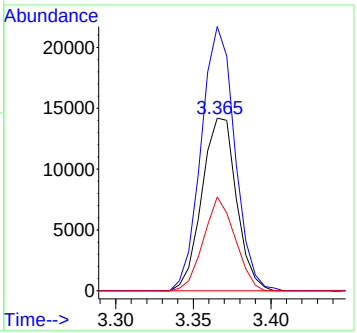


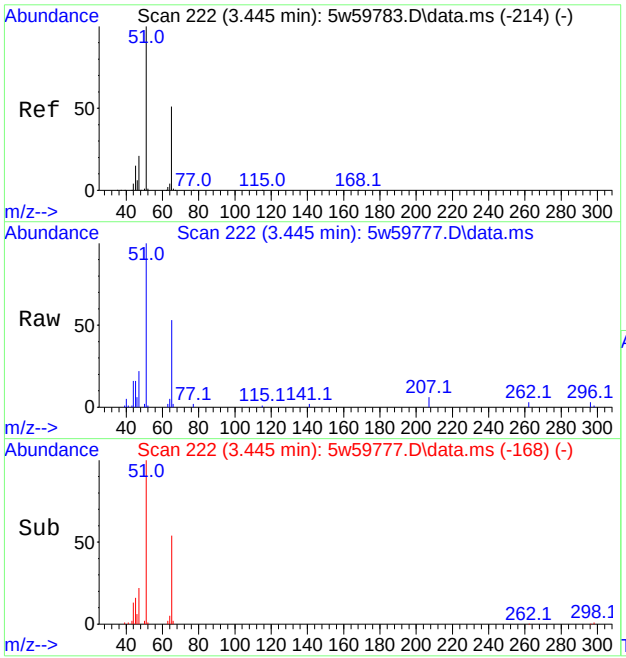


#2
FREON 115
Concen: 0.27 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:119 Resp: 21944

Ion	Ratio	Lower	Upper
119	100		
85	148.6	116.2	176.2
135	49.6	20.6	80.6

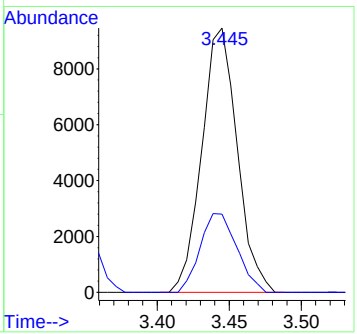


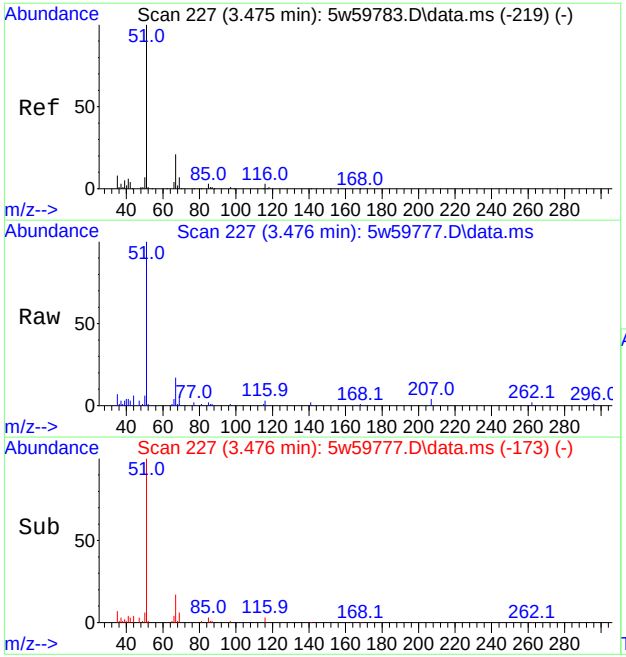


#3
FREON 152A
Concen: 0.33 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 16180

Ion	Ratio	Lower	Upper
65	100		
45	31.0	0.0	60.0

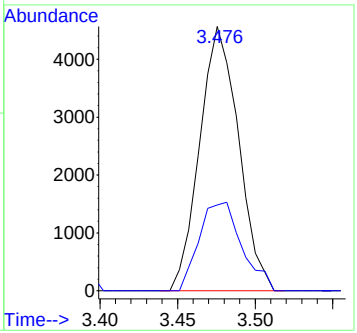


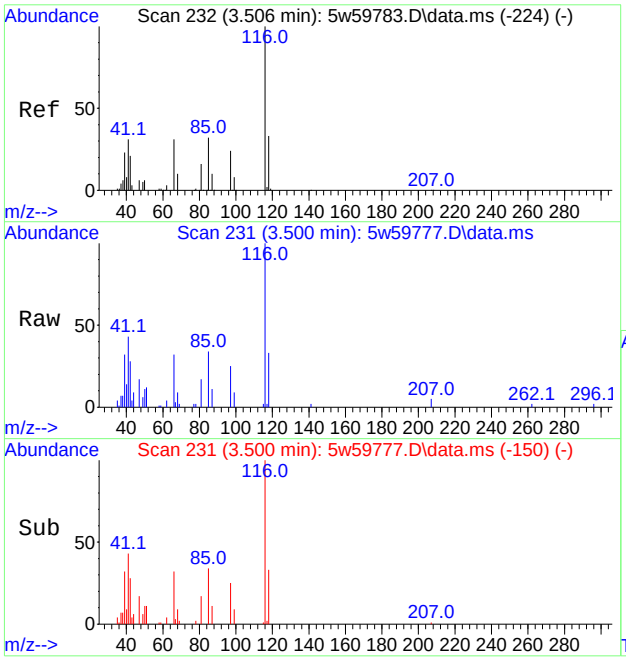


#4
CHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 7935

Ion	Ratio	Lower	Upper
67	100		
69	32.4	1.0	61.0

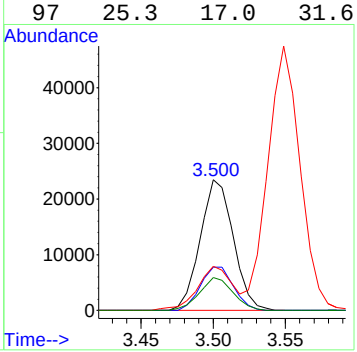


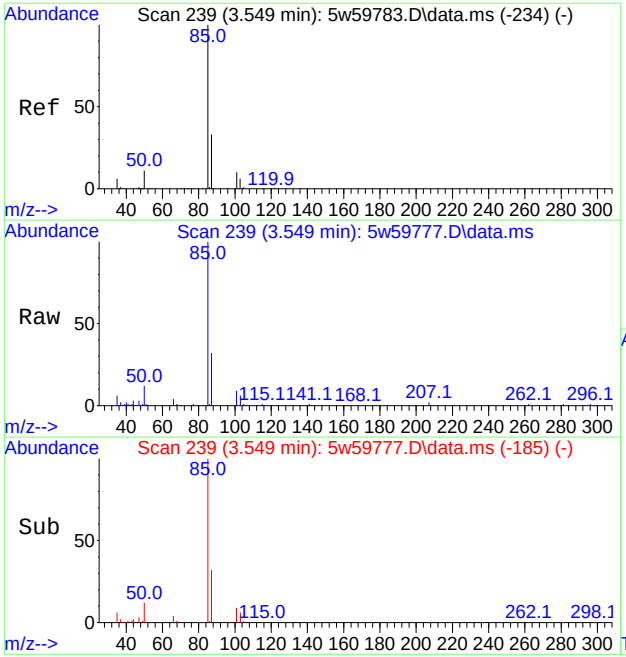


#5
CHLOROTRIFLUOROETHENE
Concen: 0.32 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:116 Resp: 37384

Ion	Ratio	Lower	Upper
116	100		
118	33.2	22.9	42.5
85	35.1	23.7	44.1
97	25.3	17.0	31.6

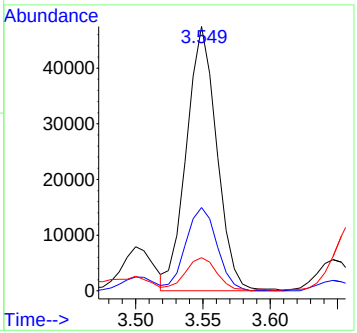


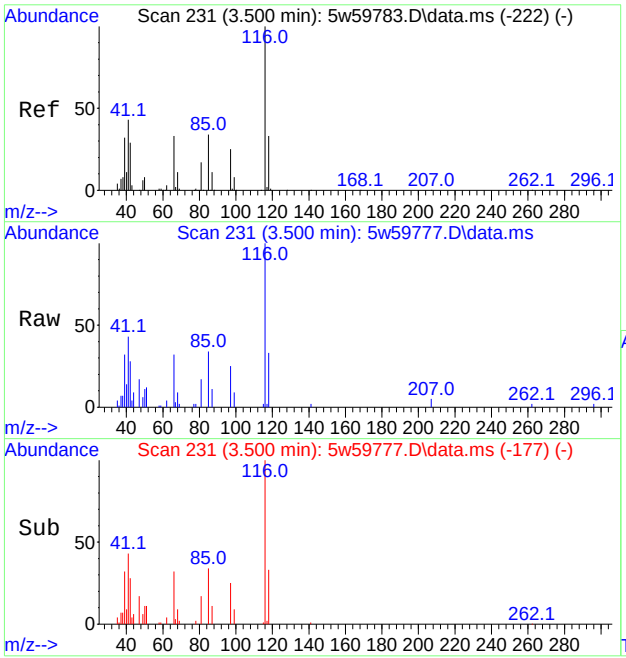


#6
DICHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 74611

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	13.2	0.0	41.7

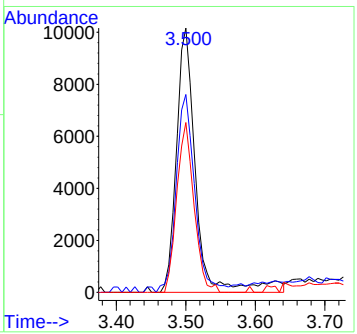


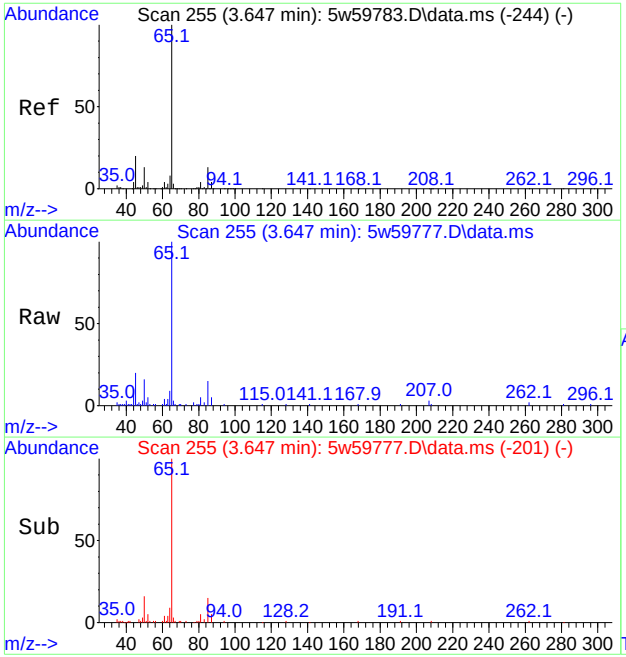


#7
PROPYLENE
Concen: 0.39 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 19764

Ion	Ratio	Lower	Upper
41	100		
39	87.7	45.1	105.1
42	56.8	36.3	96.3

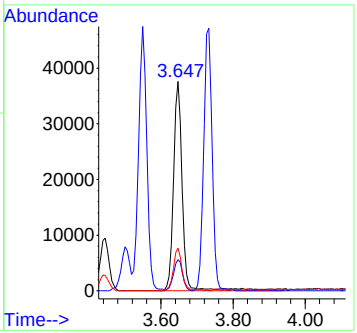


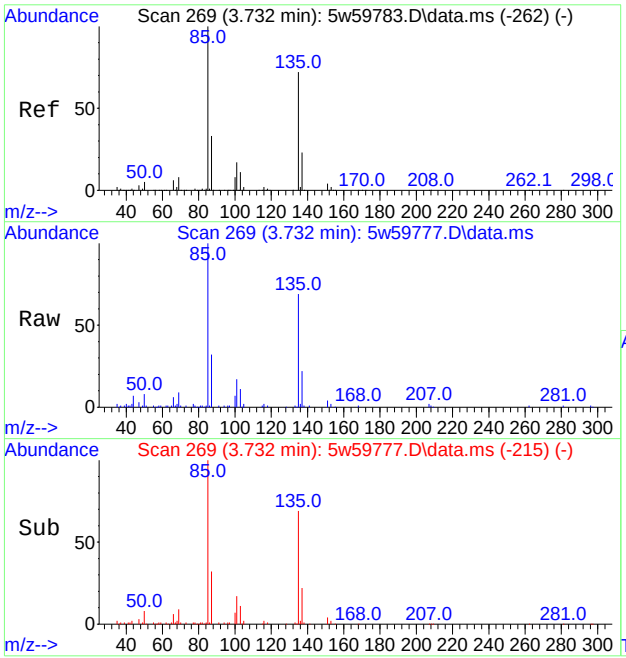


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.39 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 65023

Ion	Ratio	Lower	Upper
65	100		
85	15.0	11.5	21.3
45	20.1	14.0	26.0

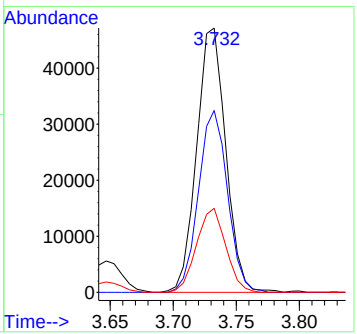


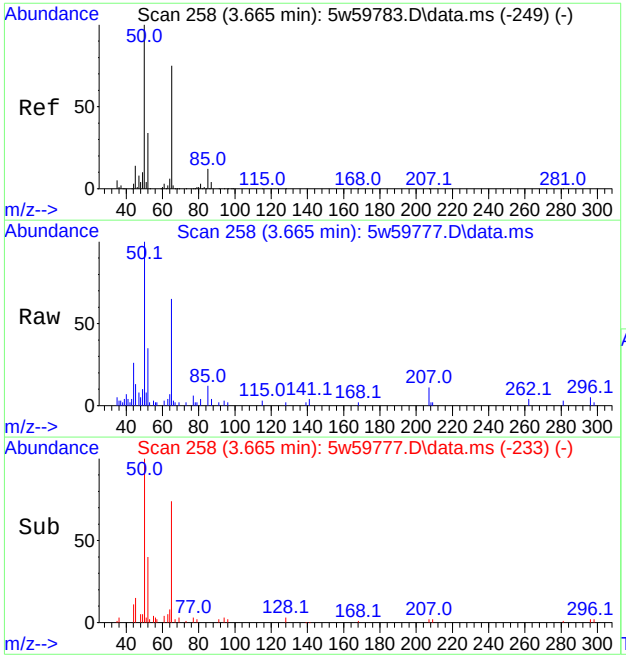


#9
FREON 114
Concen: 0.38 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 75616

Ion	Ratio	Lower	Upper
85	100		
135	68.6	40.5	100.5
87	31.9	3.0	63.0

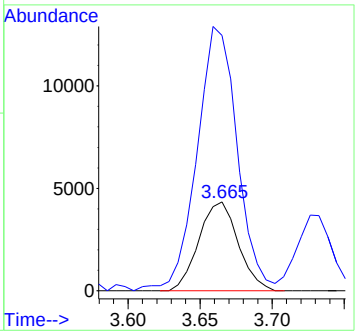


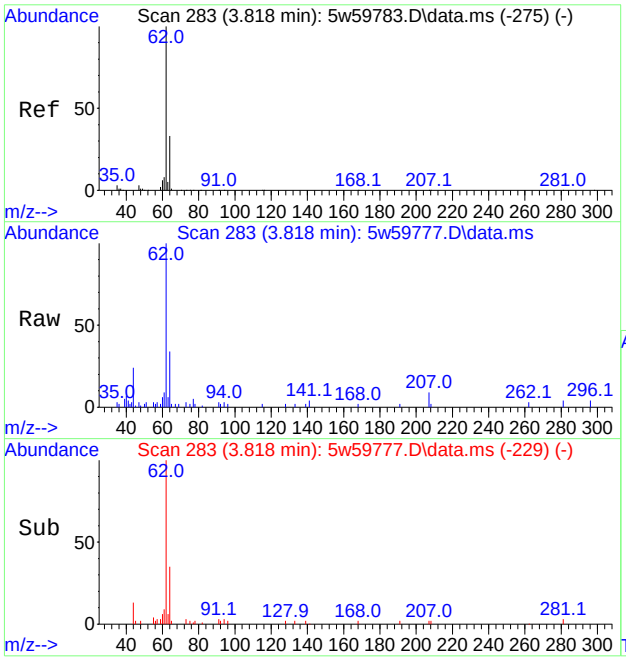


#10
CHLOROMETHANE
Concen: 0.38 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 8248

Ion	Ratio	Lower	Upper
52	100		
50	276.5	267.9	327.9

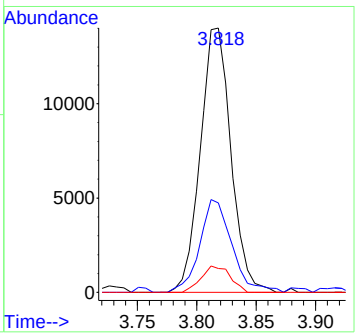


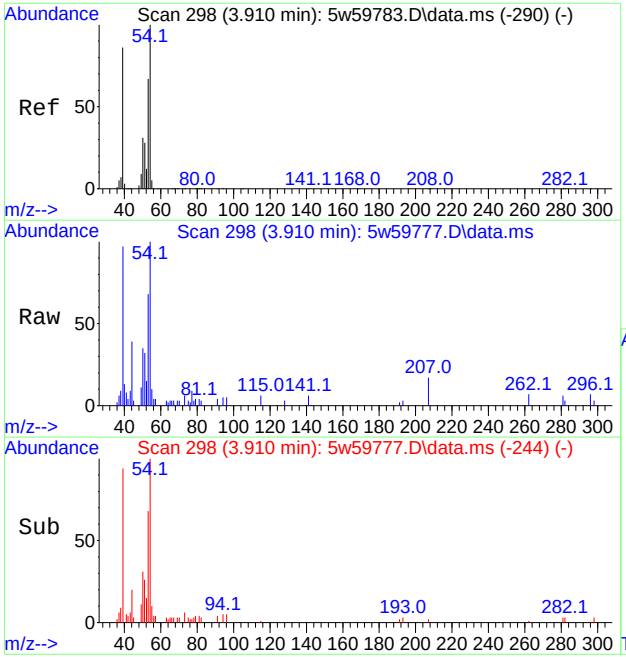


#11
VINYL CHLORIDE
Concen: 0.33 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 25119

Ion	Ratio	Lower	Upper
62	100		
64	36.8	3.6	63.6
61	9.4	0.0	38.2

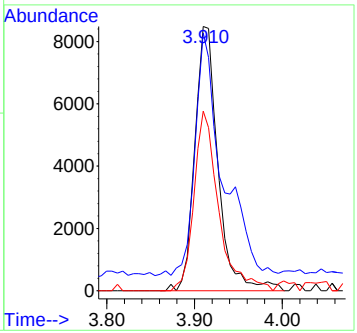


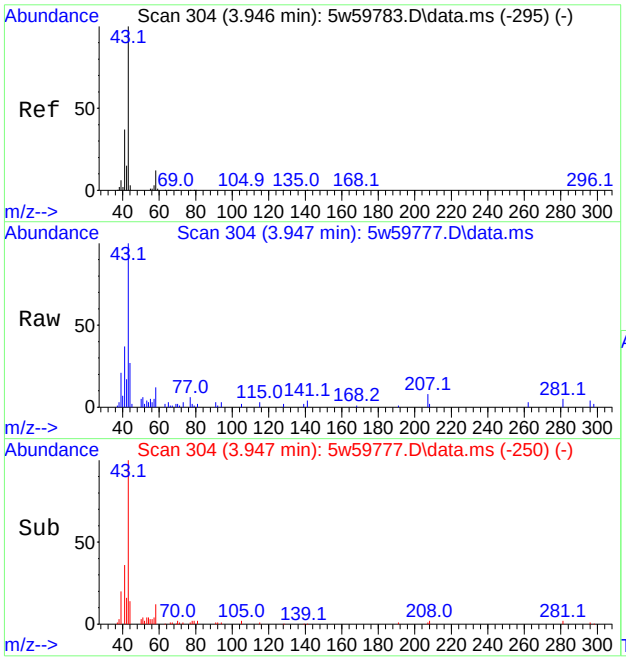


#12
1,3-BUTADIENE
Concen: 0.37 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 54 Resp: 15745

Ion	Ratio	Lower	Upper
54	100		
39	115.9	82.0	142.0
53	71.6	40.2	100.2

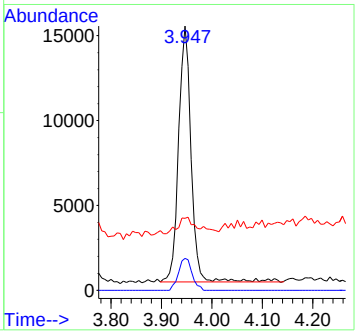


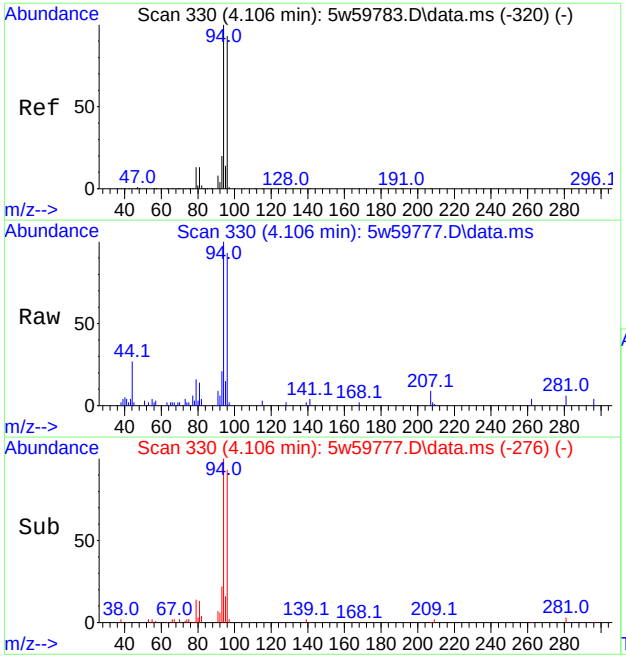


#13
n-BUTANE
Concen: 0.38 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 26092

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	0.0	0.0	34.9

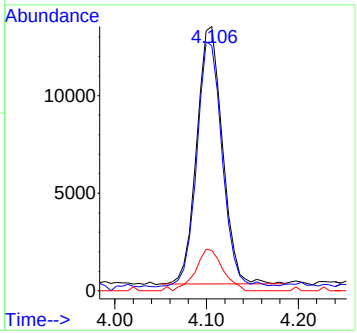


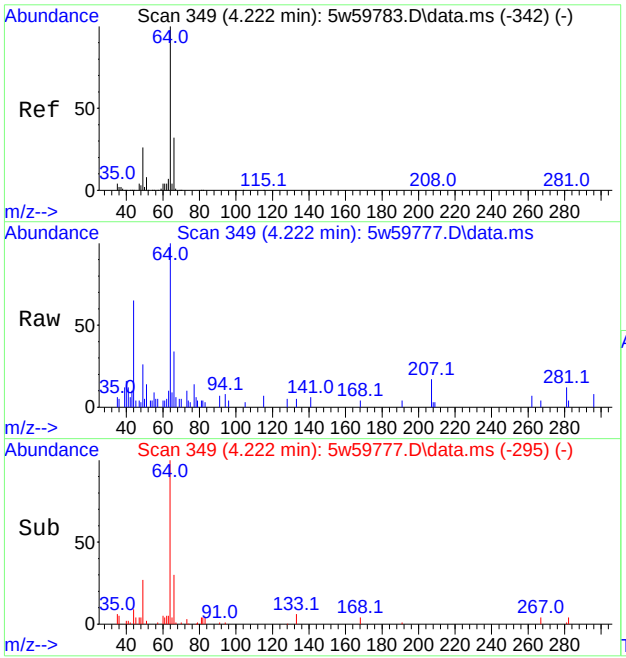


#14
BROMOMETHANE
Concen: 0.33 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 94 Resp: 25633

Ion	Ratio	Lower	Upper
94	100		
96	111.8	65.3	125.3
95	17.3	0.0	44.1

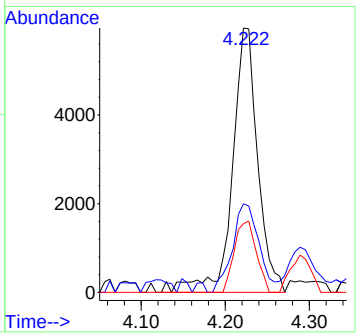


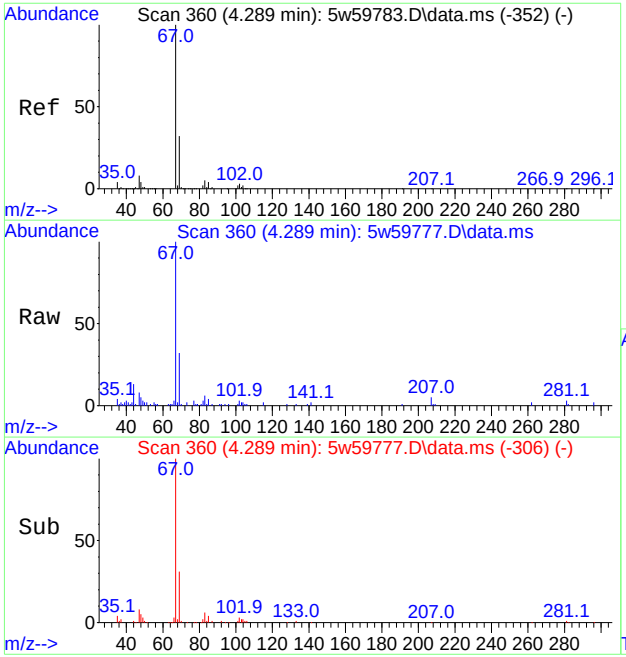


#15
CHLOROETHANE
Concen: 0.39 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 64 Resp: 12538

Ion	Ratio	Lower	Upper
64	100		
66	34.9	3.1	63.1
49	23.3	0.0	55.3

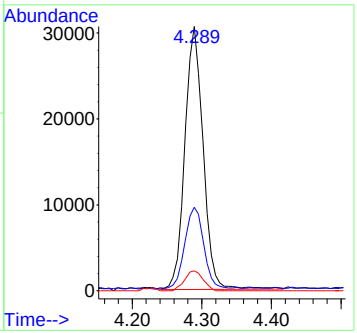


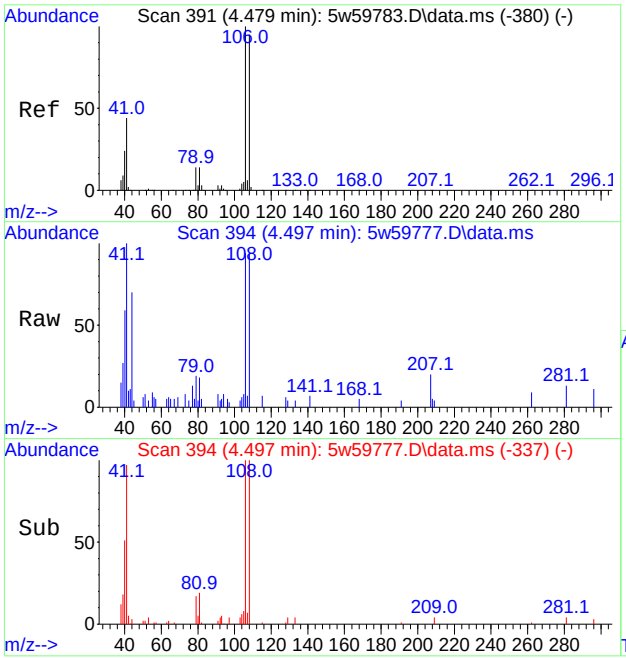


#16
DICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 56285

Ion	Ratio	Lower	Upper
67	100		
69	34.4	22.7	42.3
47	7.6	5.6	10.4

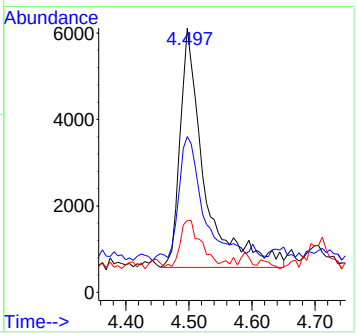


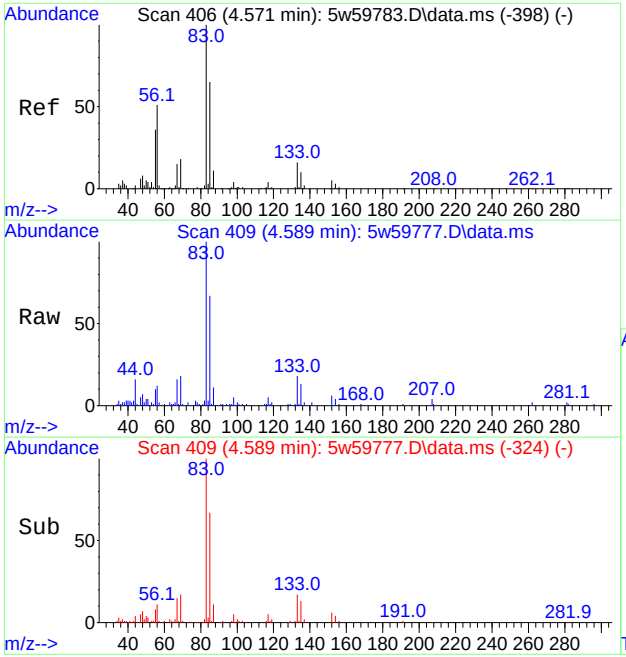


#17
ACETONITRILE
Concen: 0.37 PPBV
RT: 4.497 min Scan# 394
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 14827

Ion	Ratio	Lower	Upper
41	100		
40	55.5	37.9	70.5
39	17.7	13.4	24.8

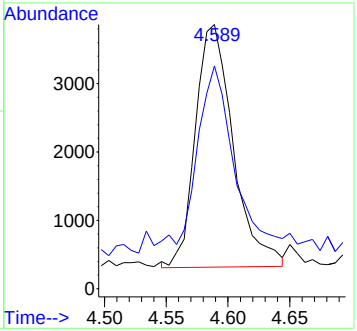


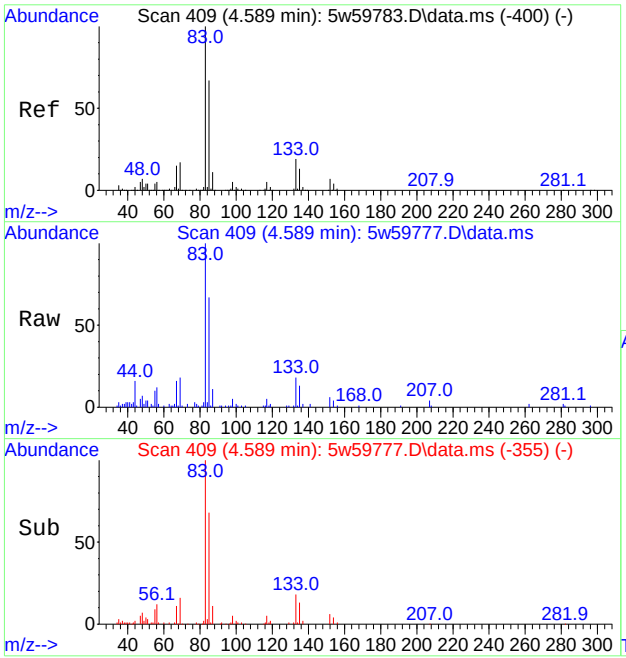


#18
ACROLEIN
Concen: 0.30 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 56 Resp: 7542

Ion	Ratio	Lower	Upper
56	100		
55	78.8	46.6	86.6

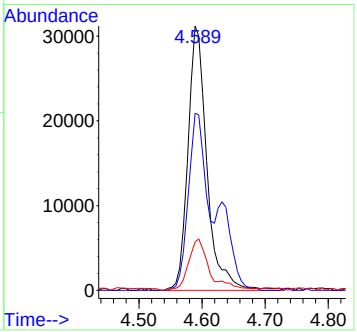


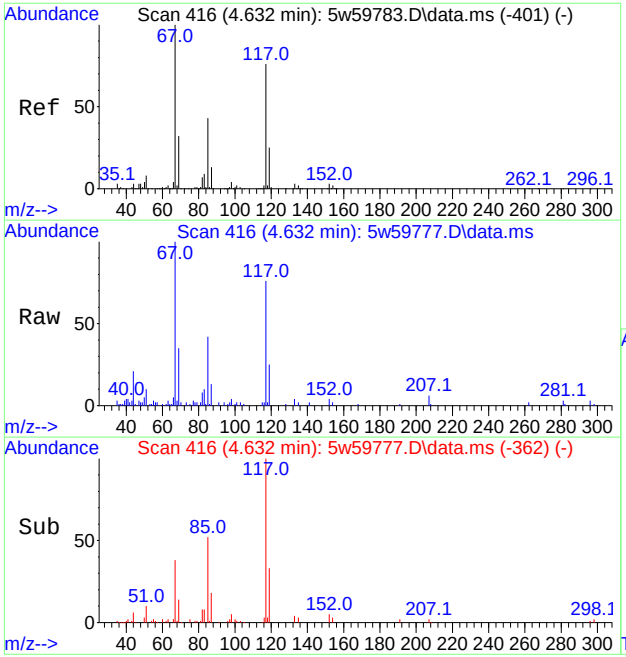


#19
FREON 123
Concen: 0.37 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 65470

Ion	Ratio	Lower	Upper
83	100		
85	65.8	34.0	94.0
133	22.6	0.0	50.7

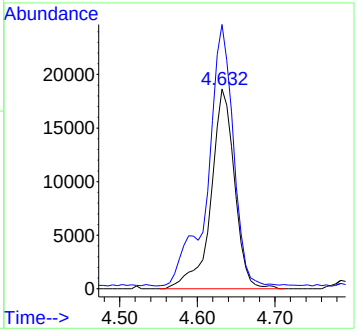


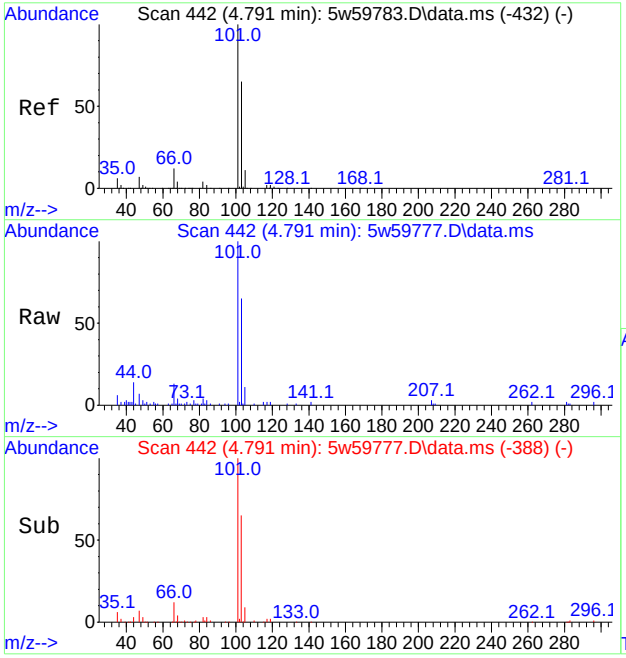


#20
FREON 123A
Concen: 0.38 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 39245

Ion	Ratio	Lower	Upper
117	100		
67	143.3	114.6	174.6

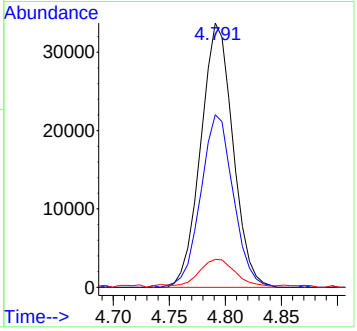


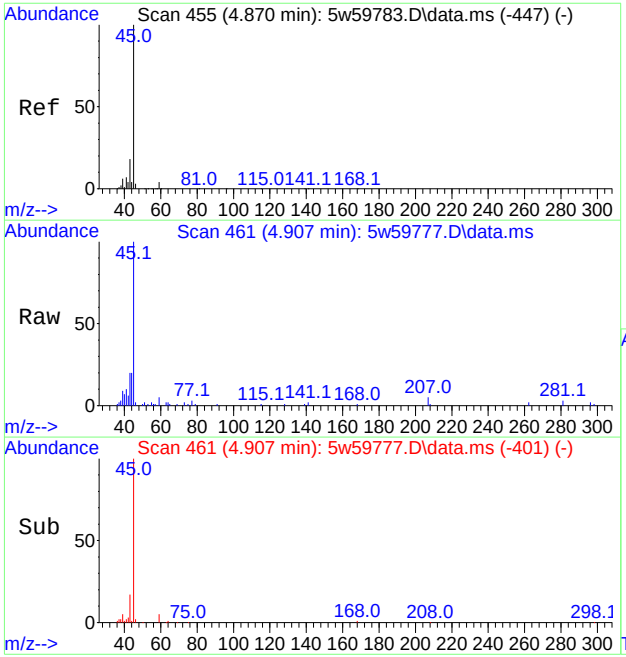


#21
TRICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:101 Resp: 67375

Ion	Ratio	Lower	Upper
101	100		
103	66.3	35.0	95.0
105	12.9	0.0	40.7

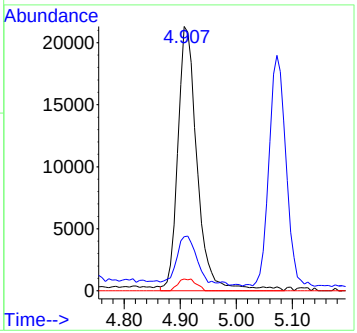


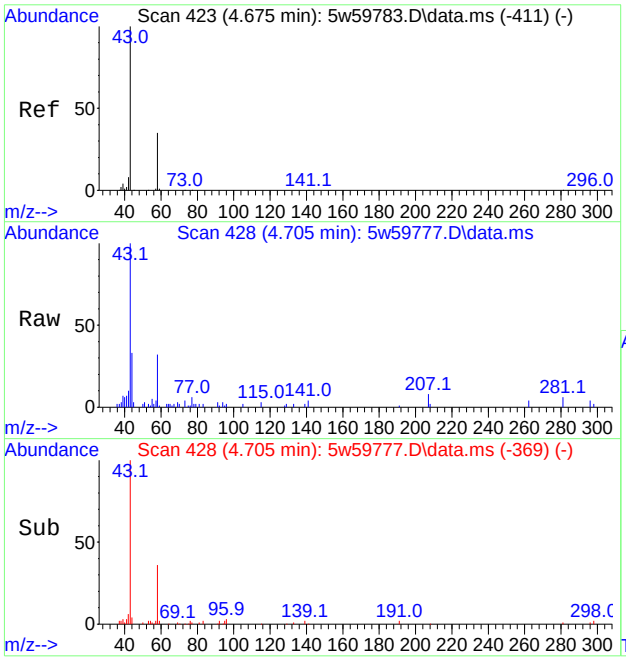


#22
ISOPROPYL ALCOHOL
Concen: 0.37 PPBV
RT: 4.907 min Scan# 461
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 51138

Ion	Ratio	Lower	Upper
45	100		
43	20.4	0.0	47.8
59	4.5	0.0	34.1

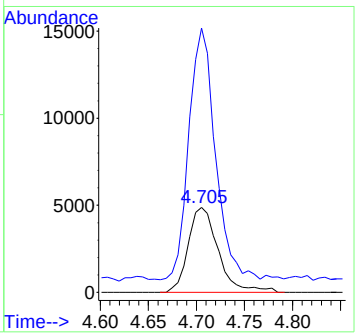


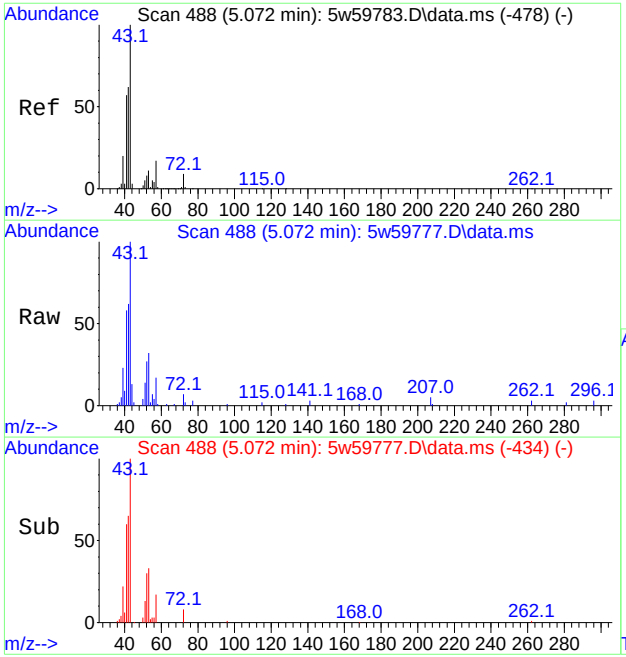


#23
ACETONE
Concen: 0.38 PPBV
RT: 4.705 min Scan# 428
Delta R.T. 0.030 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 10630

Ion	Ratio	Lower	Upper
58	100		
43	277.1	252.3	312.3

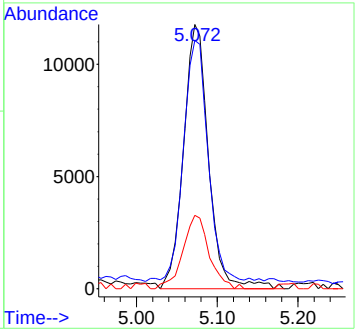


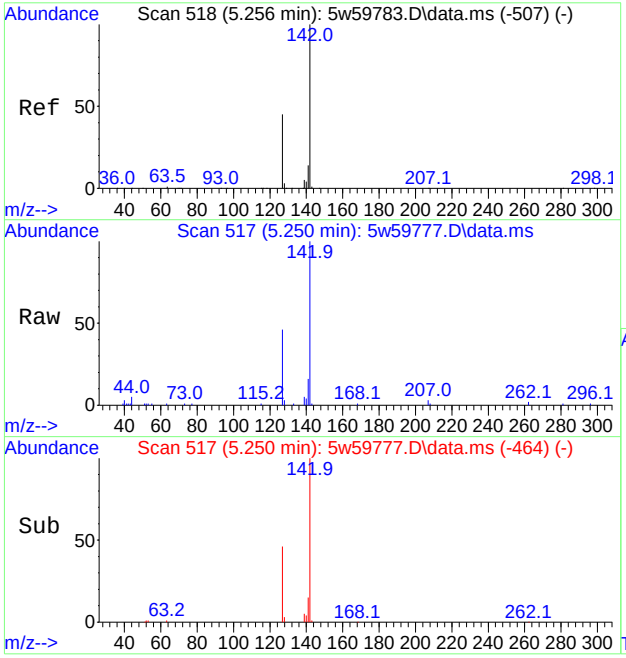


#24
PENTANE
Concen: 0.38 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 42 Resp: 25466

Ion	Ratio	Lower	Upper
42	100		
41	92.5	62.3	122.3
57	29.1	0.0	57.7

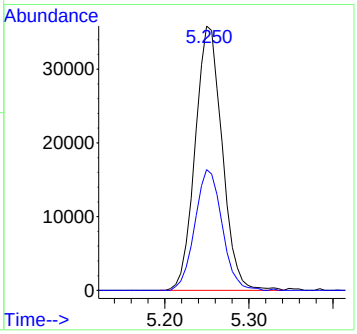


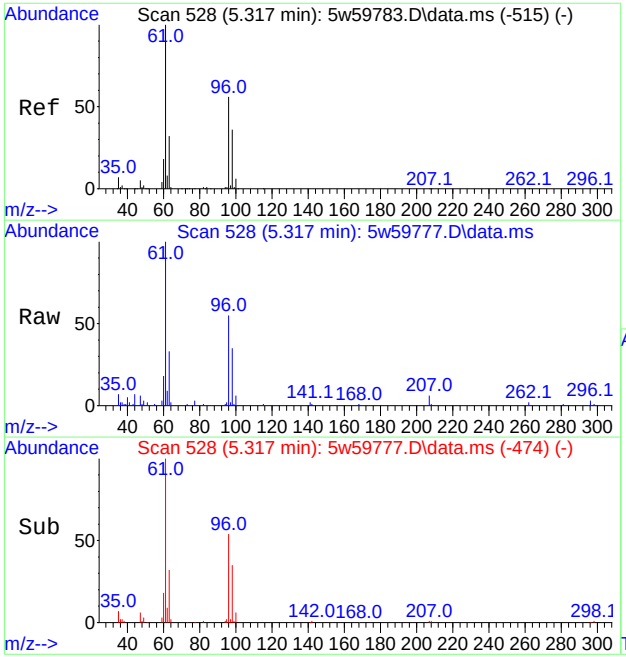


#25
IODOMETHANE
Concen: 0.35 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:142 Resp: 79998

Ion	Ratio	Lower	Upper
142	100		
127	46.1	16.0	76.0

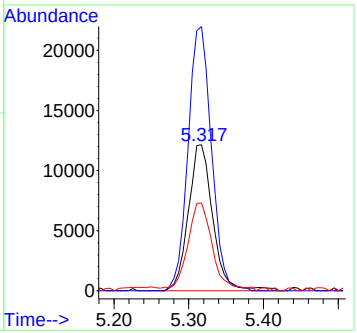


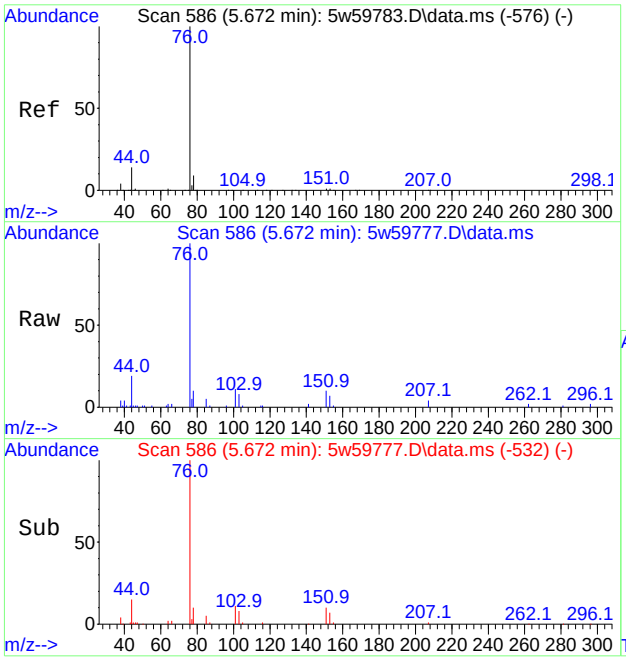


#26
1,1-DICHLOROETHYLENE
Concen: 0.36 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 27579

Ion	Ratio	Lower	Upper
96	100		
61	173.2	148.5	208.5
63	60.6	27.4	87.4

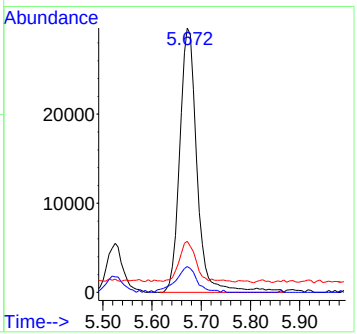


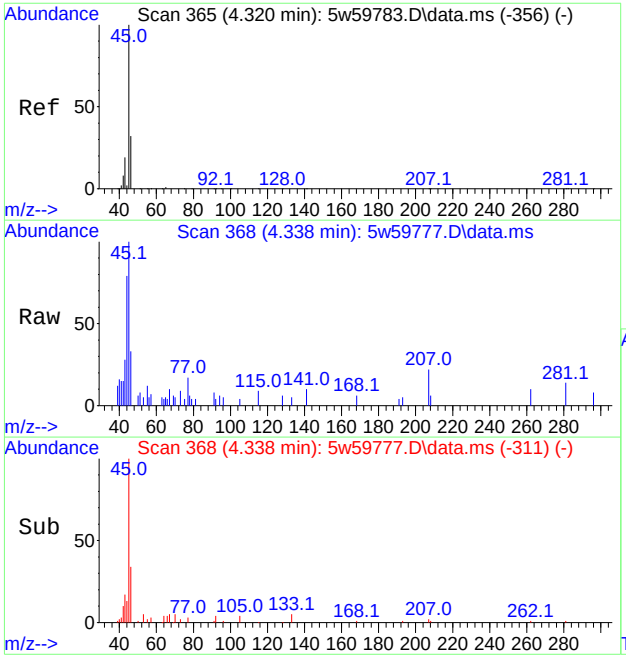


#27
CARBON DISULFIDE
Concen: 0.34 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 72450

Ion	Ratio	Lower	Upper
76	100		
78	11.8	0.0	41.5
44	15.1	0.0	44.6

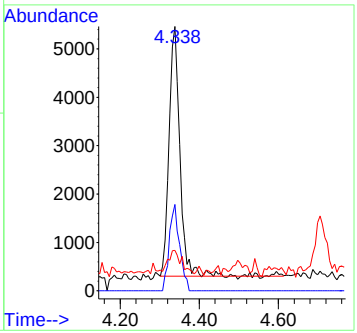


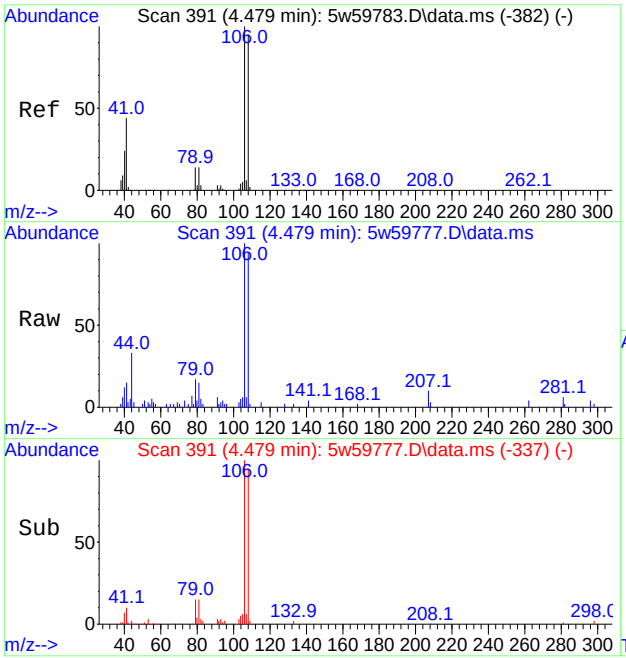


#28
ETHANOL
Concen: 0.39 PPBV
RT: 4.338 min Scan# 368
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 9883

Ion	Ratio	Lower	Upper
45	100		
46	32.7	2.0	62.0
42	12.7	0.0	38.5

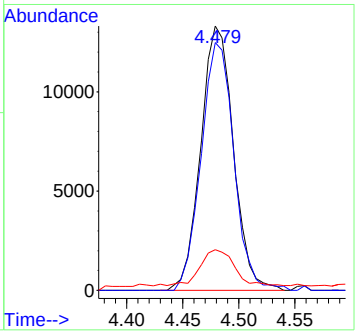


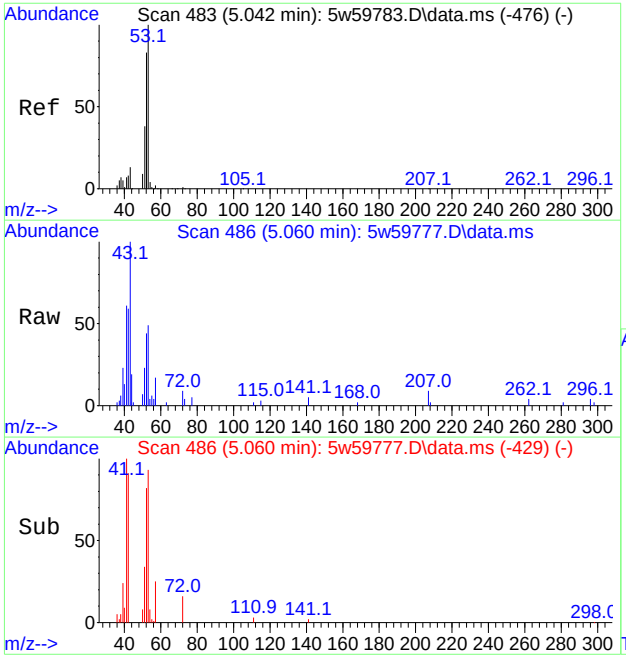


#29
BROMOETHENE
Concen: 0.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 27007

Ion	Ratio	Lower	Upper
106	100		
108	93.9	65.6	125.6
81	13.1	0.0	43.9

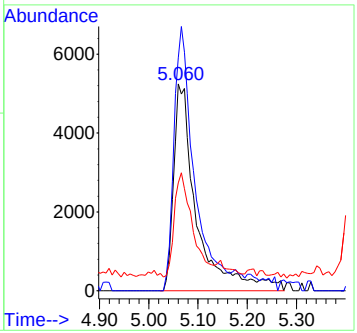


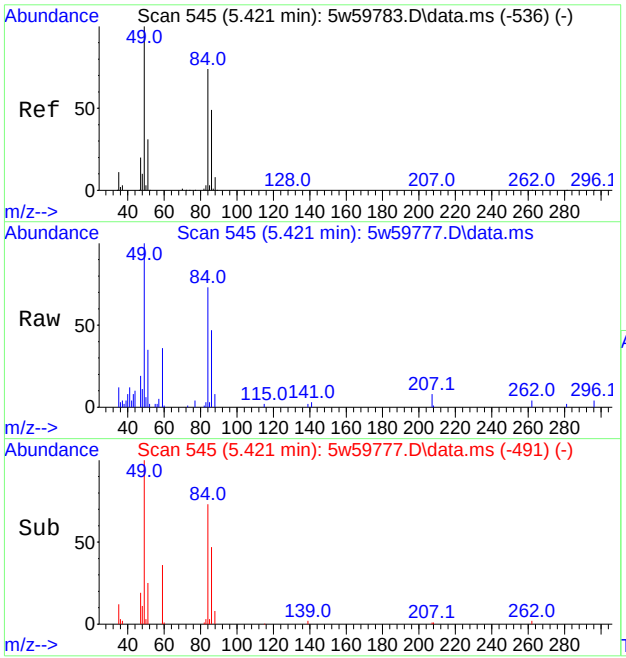


#30
ACRYLONITRILE
Concen: 0.37 PPBV
RT: 5.060 min Scan# 486
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 17143

Ion	Ratio	Lower	Upper
52	100		
53	123.5	85.8	159.4
51	43.9	32.3	60.1

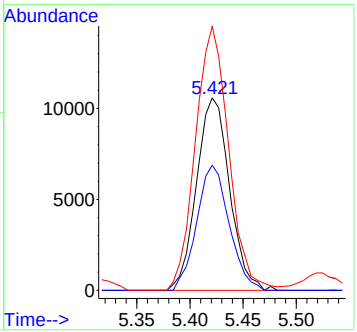


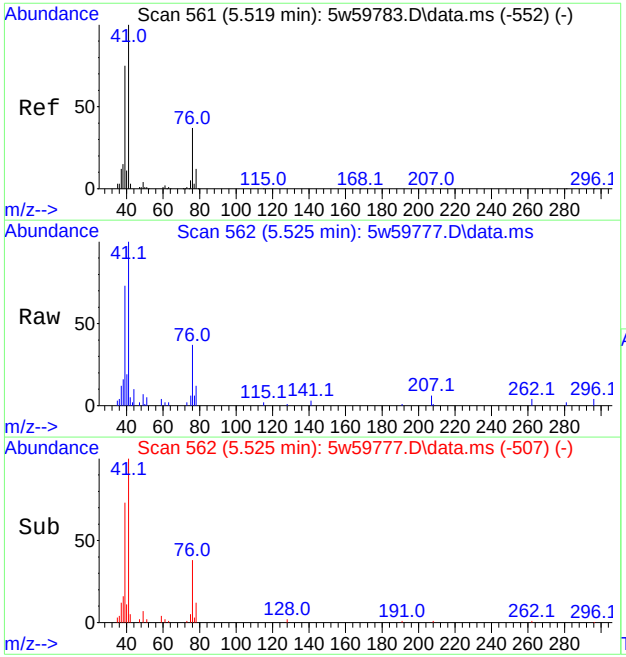


#31
METHYLENE CHLORIDE
Concen: 0.34 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 22923

Ion	Ratio	Lower	Upper
84	100		
86	63.7	35.2	95.2
49	138.4	105.3	165.3

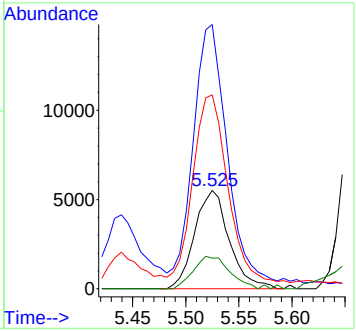


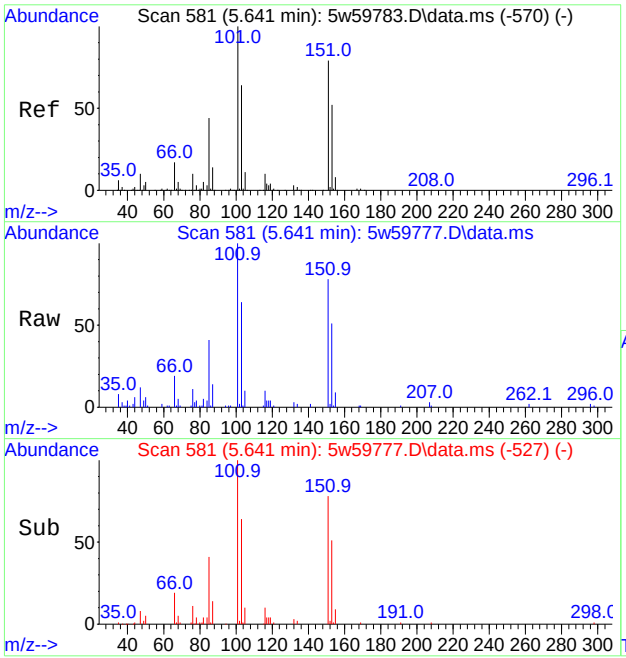


#32
3-CHLOROPROPENE
Concen: 0.36 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 12479

Ion	Ratio	Lower	Upper
76	100		
41	307.5	240.8	300.8#
39	198.9	173.6	233.6
78	34.4	2.8	62.8

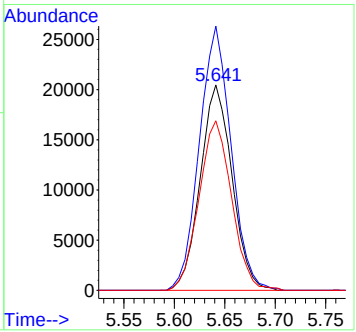


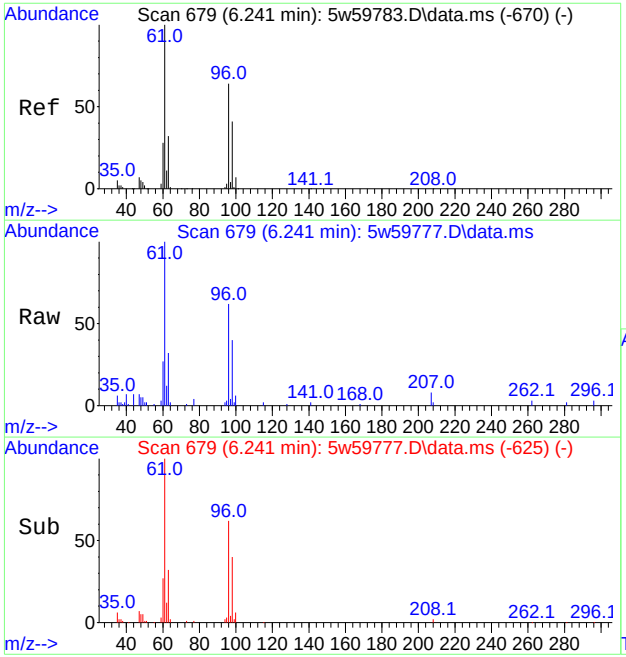


#33
FREON 113
Concen: 0.33 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:151 Resp: 45001

Ion	Ratio	Lower	Upper
151	100		
101	128.1	97.5	157.5
103	84.5	52.5	112.5

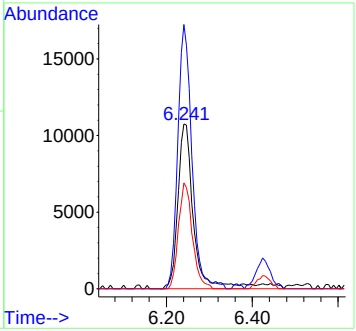


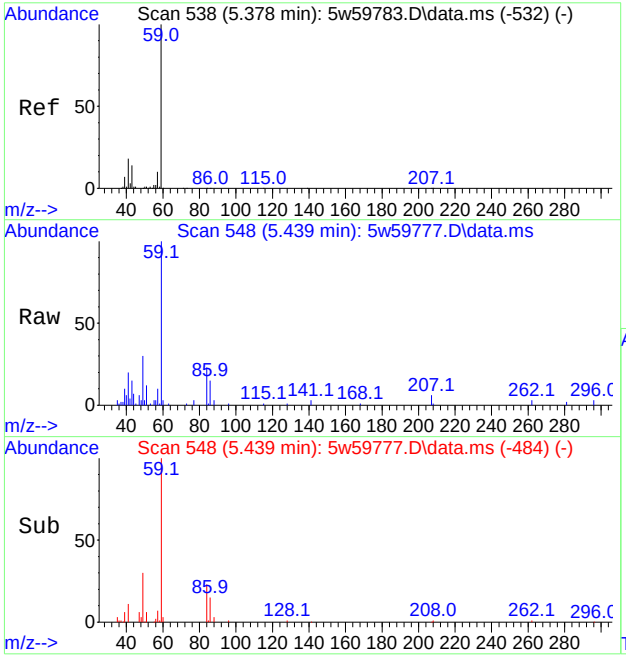


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 28115

Ion	Ratio	Lower	Upper
96	100		
61	139.5	126.4	186.4
98	55.2	34.1	94.1

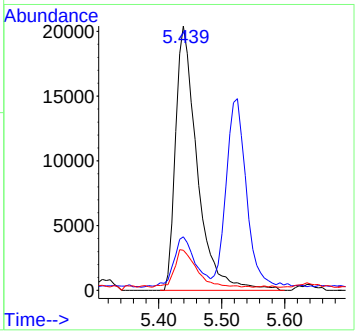


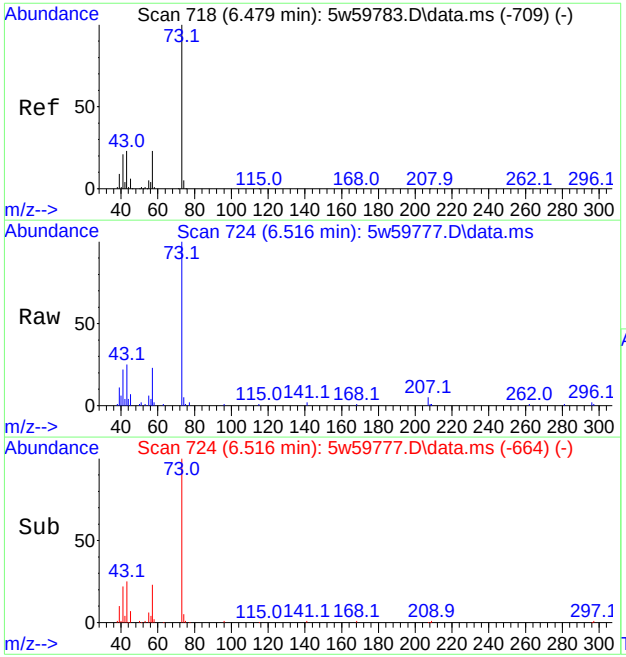


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.31 PPBV
RT: 5.439 min Scan# 548
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 48711

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	17.9	0.0	44.1

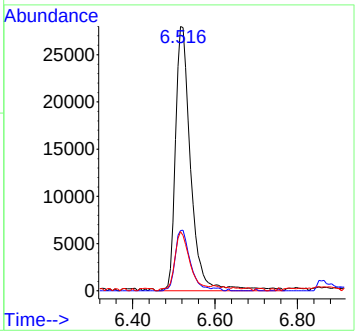


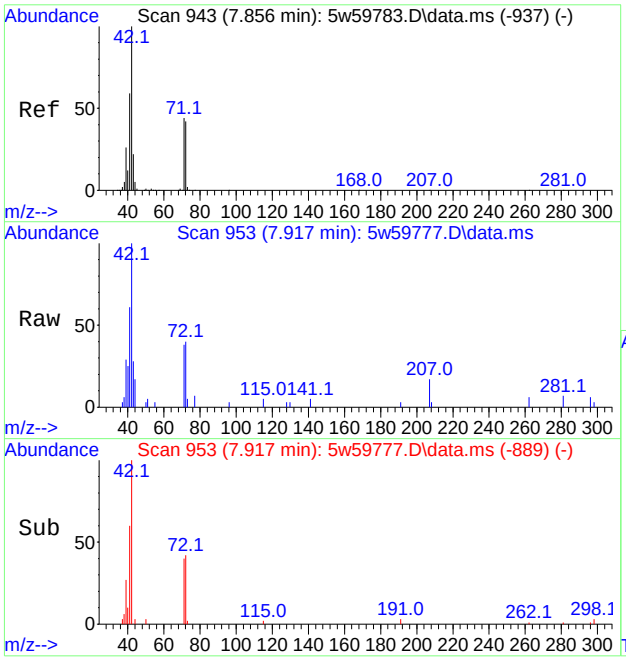


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.36 PPBV
RT: 6.516 min Scan# 724
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 73 Resp: 72222

Ion	Ratio	Lower	Upper
73	100		
57	22.9	0.0	53.1
41	25.0	0.0	50.6

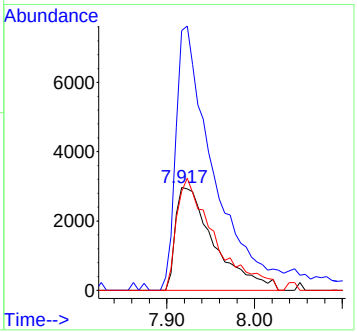


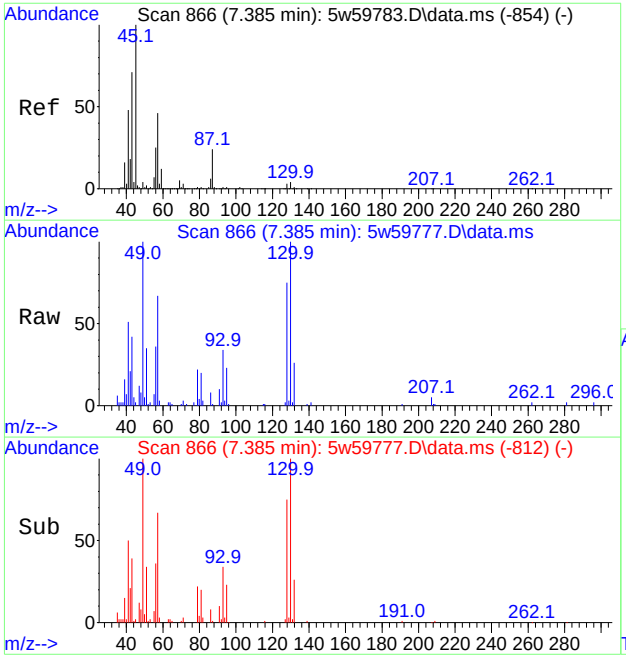


#37
TETRAHYDROFURAN
Concen: 0.29 PPBV
RT: 7.917 min Scan# 953
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9128

Ion	Ratio	Lower	Upper
72	100		
42	273.5	202.4	262.4#
71	107.4	71.1	131.1

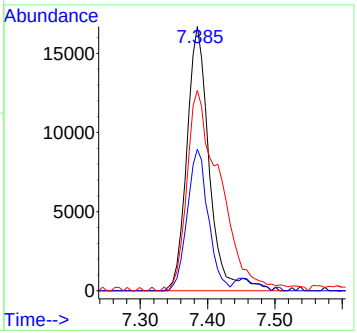


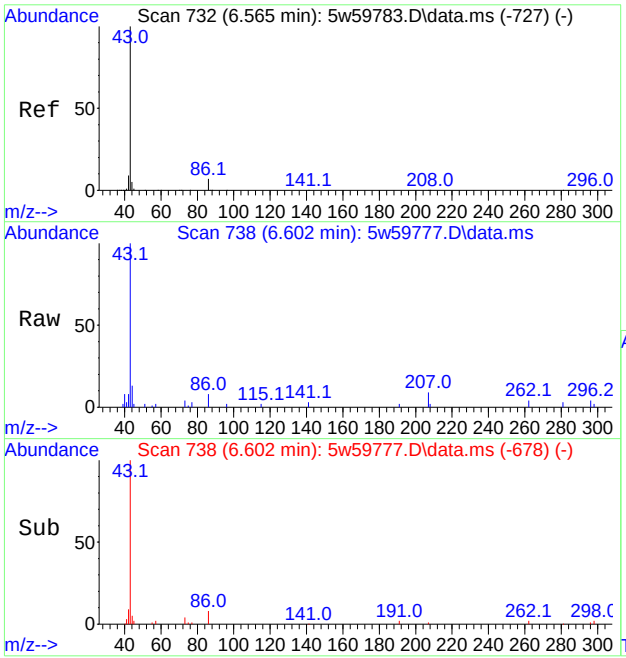


#38
HEXANE
Concen: 0.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 38643

Ion	Ratio	Lower	Upper
57	100		
56	50.3	25.9	85.9
41	113.5	74.7	134.7

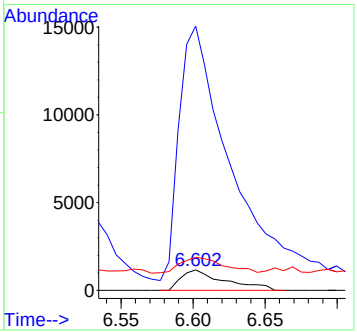


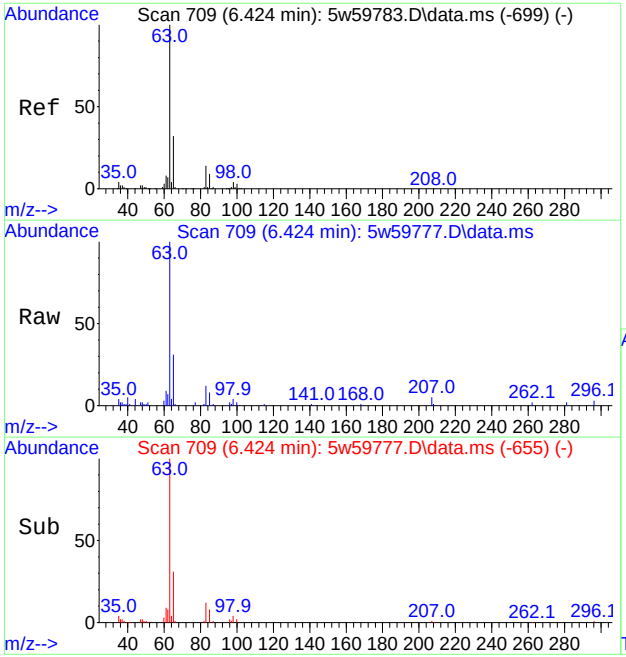


#39
VINYL ACETATE
Concen: 0.19 PPBV
RT: 6.602 min Scan# 738
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 86 Resp: 2461

Ion	Ratio	Lower	Upper
86	100		
43	1595.3	1379.7	1439.7#
44	82.6	36.9	96.9

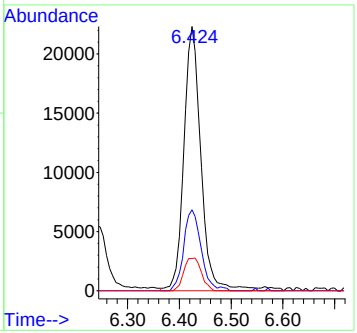


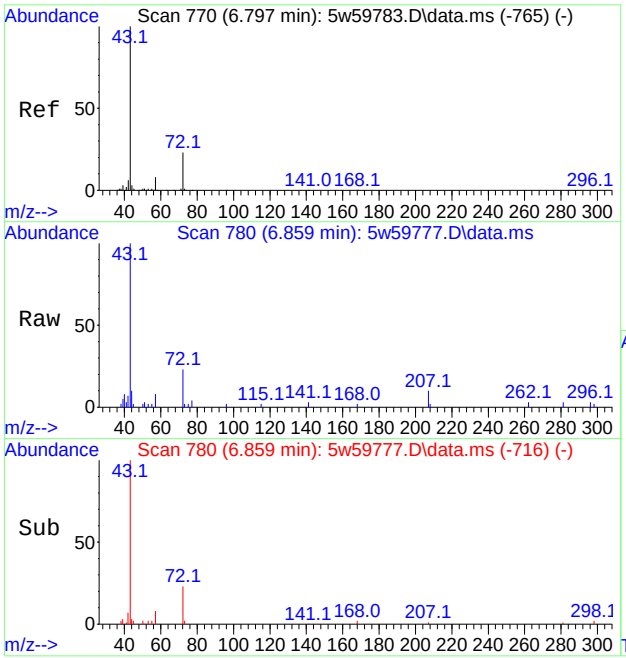


#40
1,1-DICHLOROETHANE
Concen: 0.36 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 51689

Ion	Ratio	Lower	Upper
63	100		
65	31.0	1.7	61.7
83	12.6	0.0	43.5

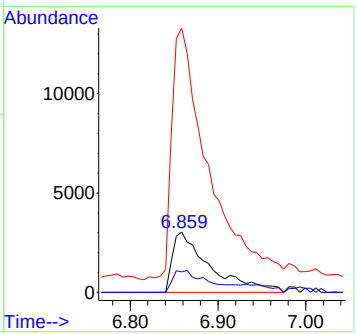


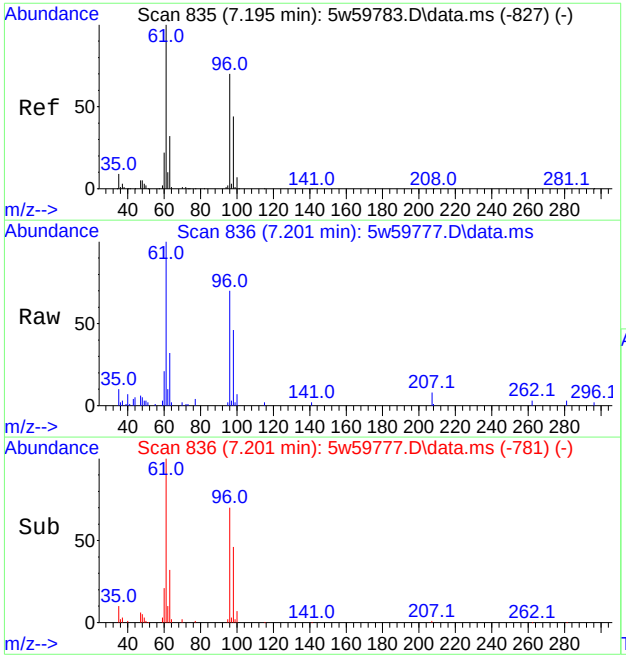


#41
METHYL ETHYL KETONE
Concen: 0.28 PPBV
RT: 6.859 min Scan# 780
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9022

Ion	Ratio	Lower	Upper
72	100		
57	34.2	4.8	64.8
43	439.2	415.9	475.9

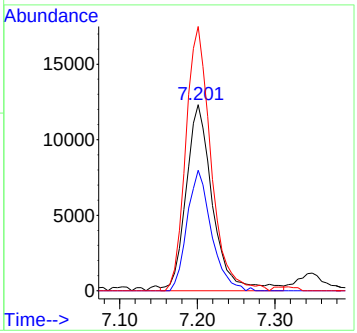


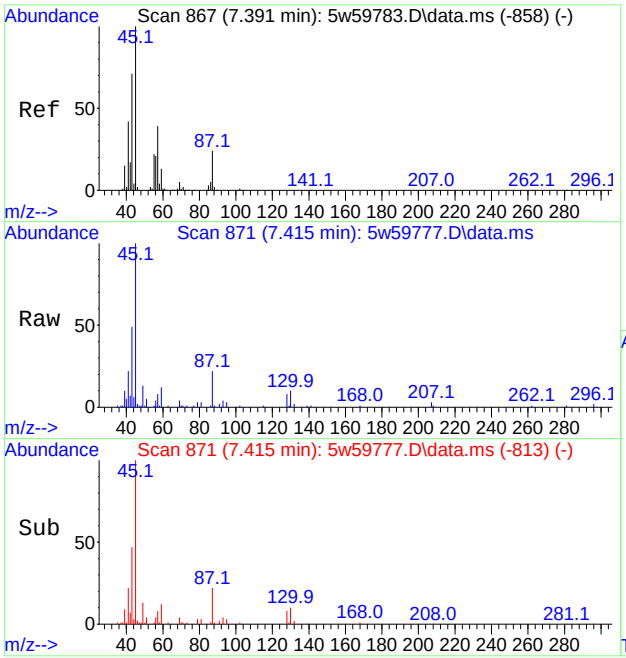


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 29380

Ion	Ratio	Lower	Upper
96	100		
98	59.0	34.0	94.0
61	133.9	111.5	171.5

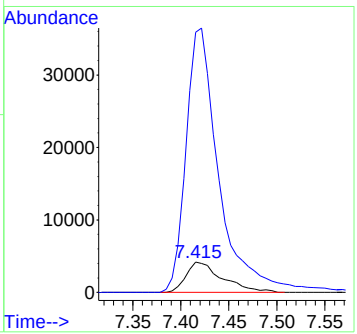


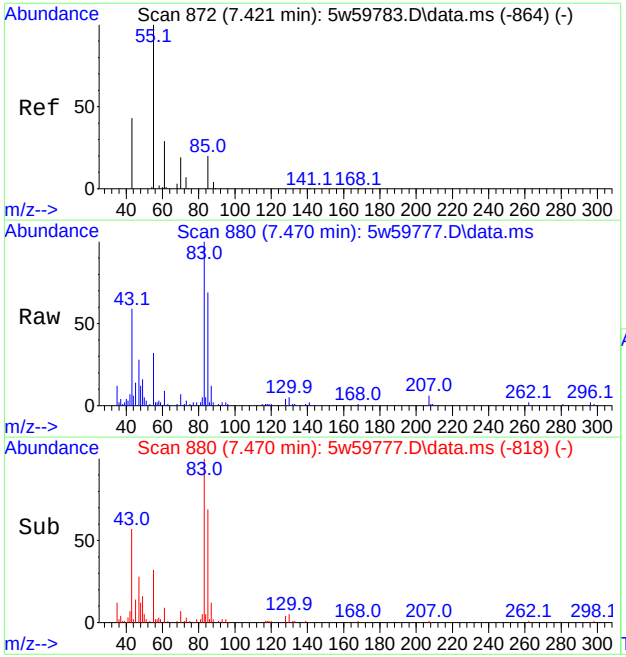


#43
DIISOPROPYL ETHER
Concen: 0.31 PPBV
RT: 7.415 min Scan# 871
Delta R.T. 0.024 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 10994

Ion	Ratio	Lower	Upper
59	100		
45	807.5	720.9	780.9#

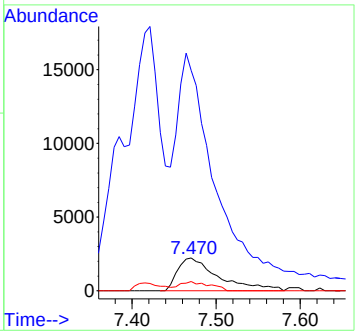


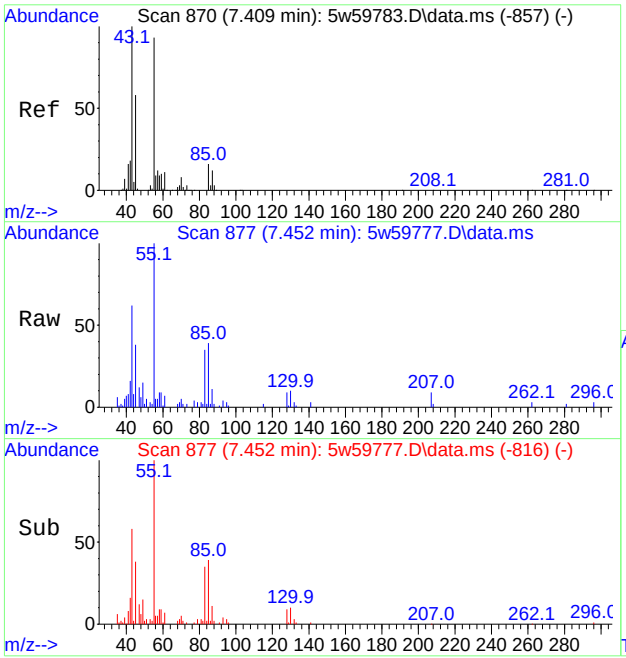


#44
ETHYL ACETATE
Concen: 0.29 PPBV
RT: 7.470 min Scan# 880
Delta R.T. 0.049 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 61 Resp: 7547

Ion	Ratio	Lower	Upper
61	100		
43	674.6	560.5	620.5#
88	20.6	4.5	64.5

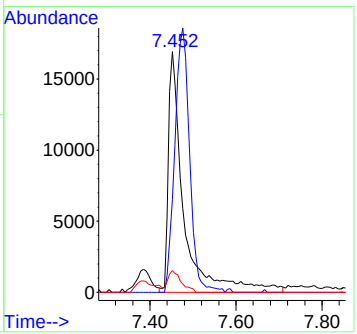


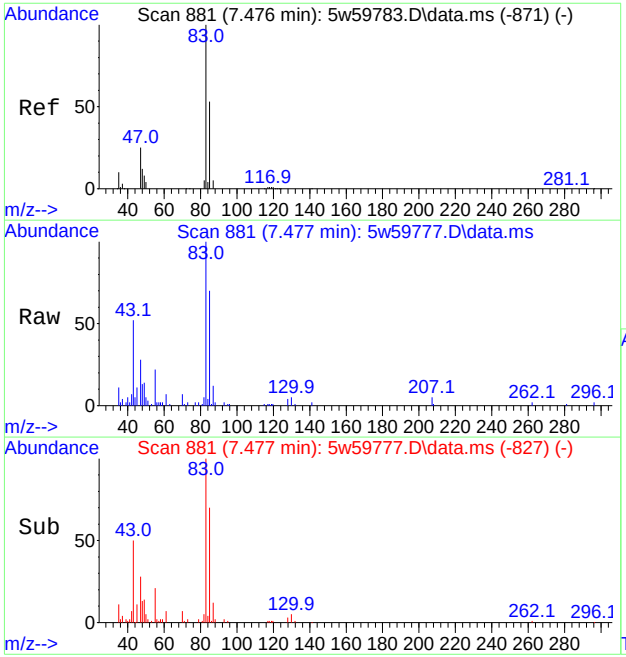


#45
METHYL ACRYLATE
Concen: 0.30 PPBV m
RT: 7.452 min Scan# 877
Delta R.T. 0.043 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 42153

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	6.0	9.4	17.6#

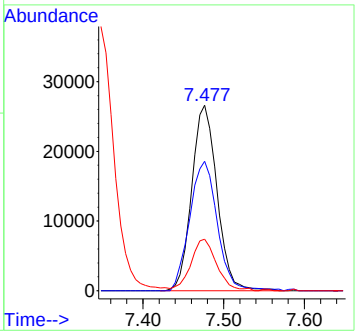


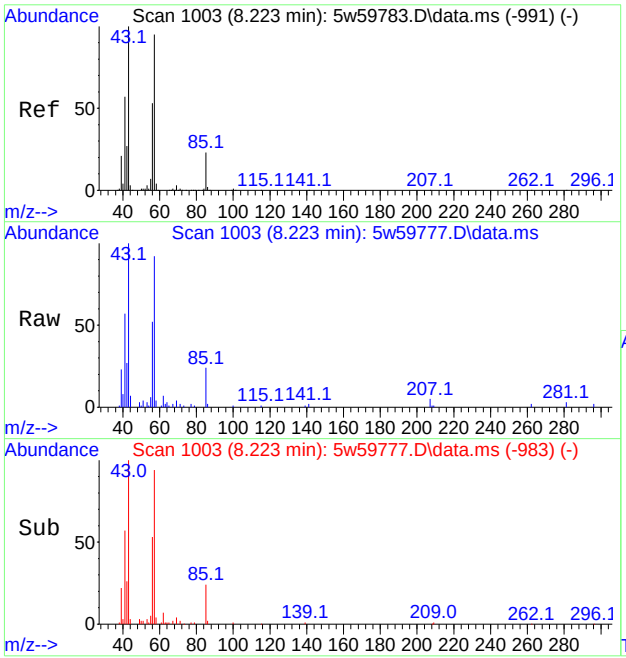


#46
CHLOROFORM
Concen: 0.34 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 58038

Ion	Ratio	Lower	Upper
83	100		
85	76.4	35.6	95.6
47	28.3	0.0	55.2

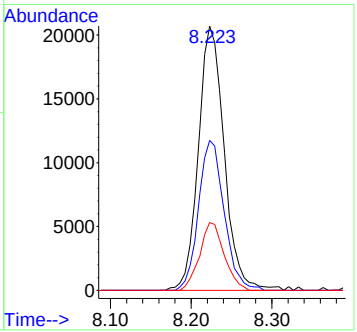


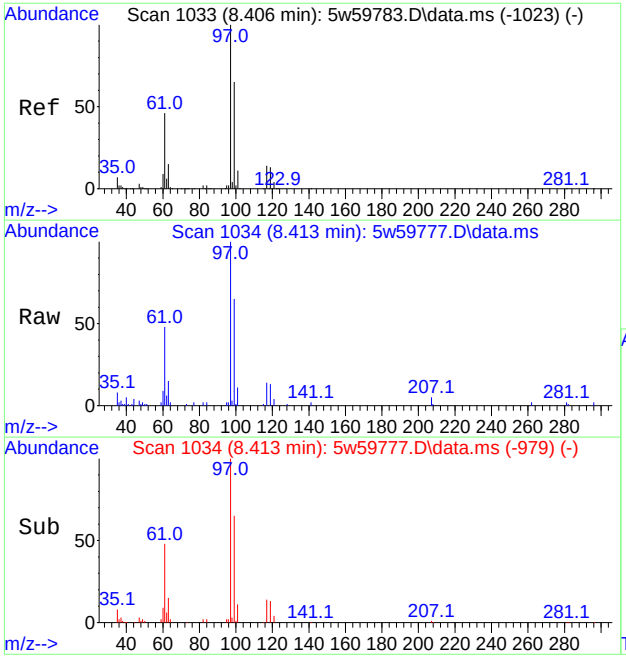


#47
2,4-DIMETHYLPENTANE
Concen: 0.34 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 46136

Ion	Ratio	Lower	Upper
57	100		
56	56.2	26.5	86.5
85	24.4	0.0	53.8

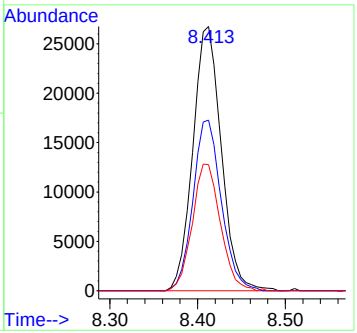


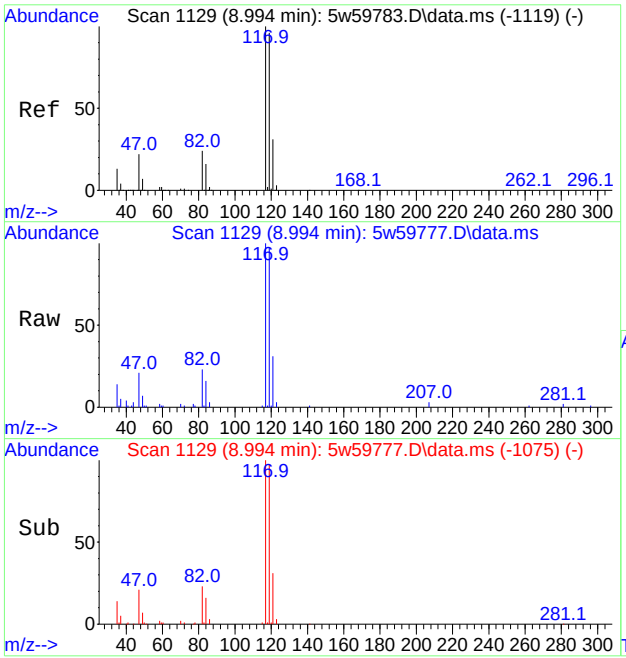


#48
1,1,1-TRICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 97 Resp: 60433

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.8	94.8
61	47.5	15.8	75.8

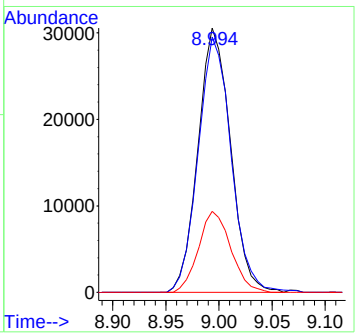


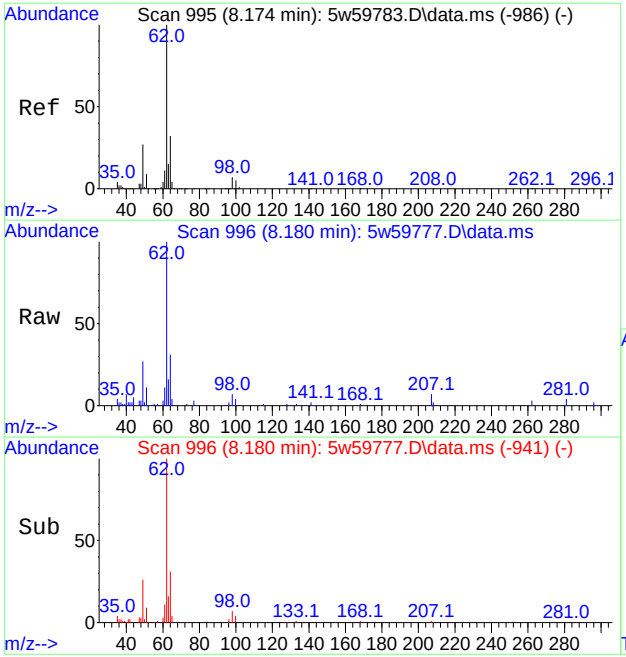


#49
CARBON TETRACHLORIDE
Concen: 0.33 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 65062

Ion	Ratio	Lower	Upper
117	100		
119	98.1	66.9	126.9
121	30.5	1.3	61.3

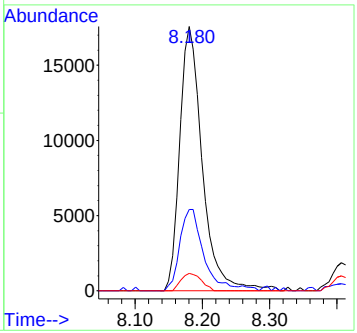


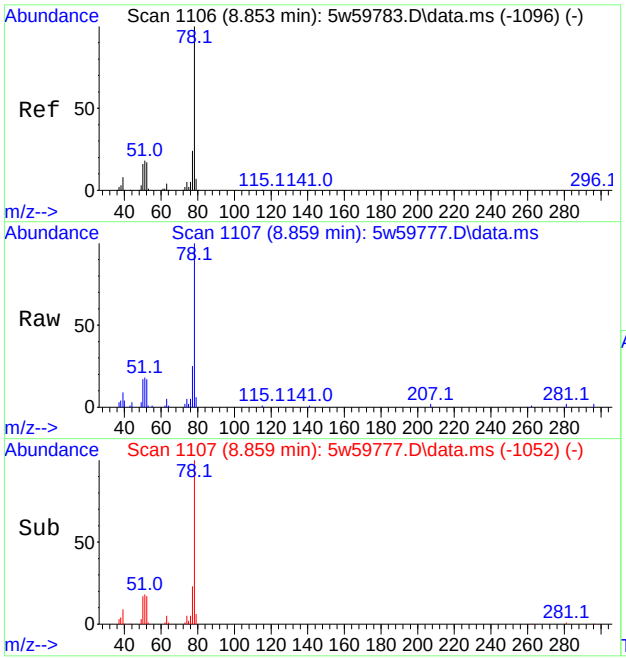


#50
1,2-DICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 41098

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	5.9	0.0	36.9

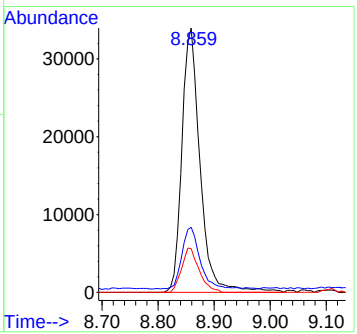


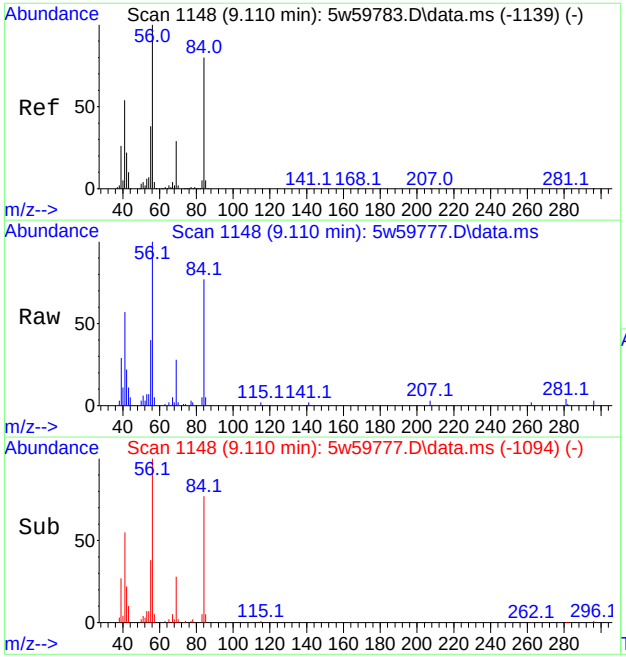


#52
BENZENE
Concen: 0.34 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 78 Resp: 76538

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	16.1	0.0	46.9

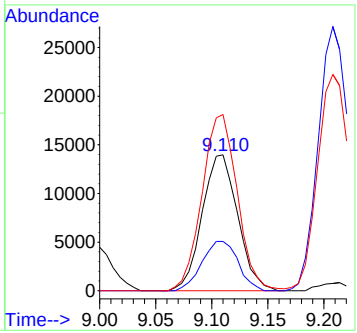


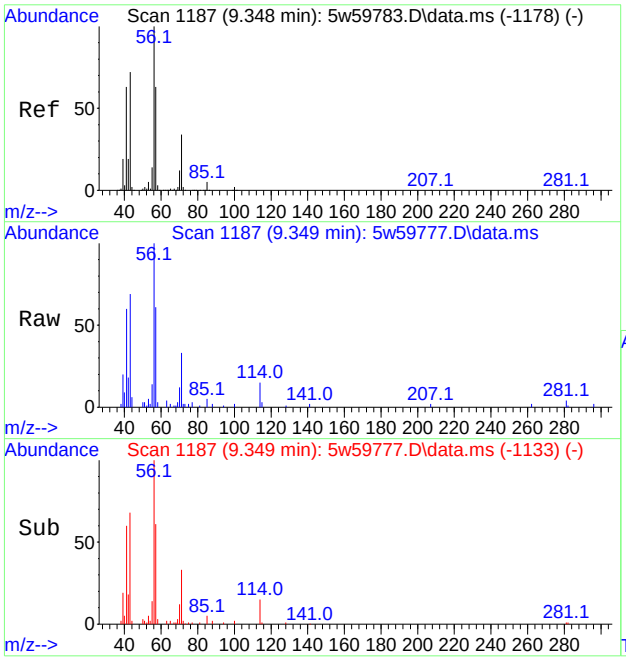


#53
CYCLOHEXANE
Concen: 0.34 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 30877

Ion	Ratio	Lower	Upper
84	100		
69	37.0	6.9	66.9
56	128.6	98.2	158.2

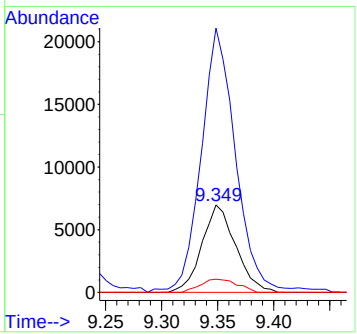


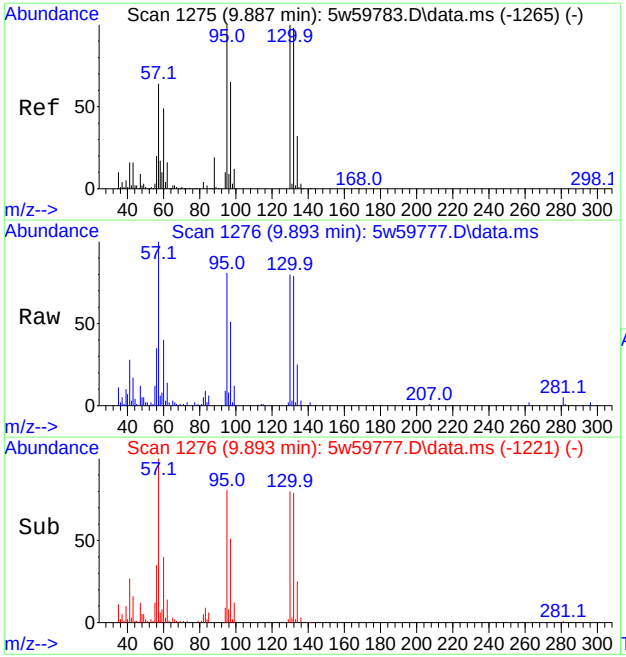


#54
2,3-DIMETHYLPENTANE
Concen: 0.32 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 71 Resp: 14658

Ion	Ratio	Lower	Upper
71	100		
56	309.7	264.6	324.6
85	16.6	0.0	45.3

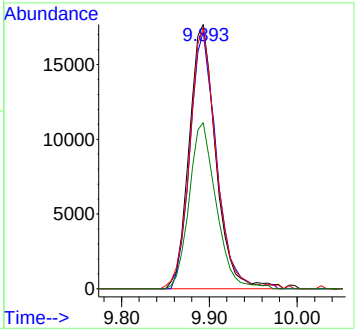


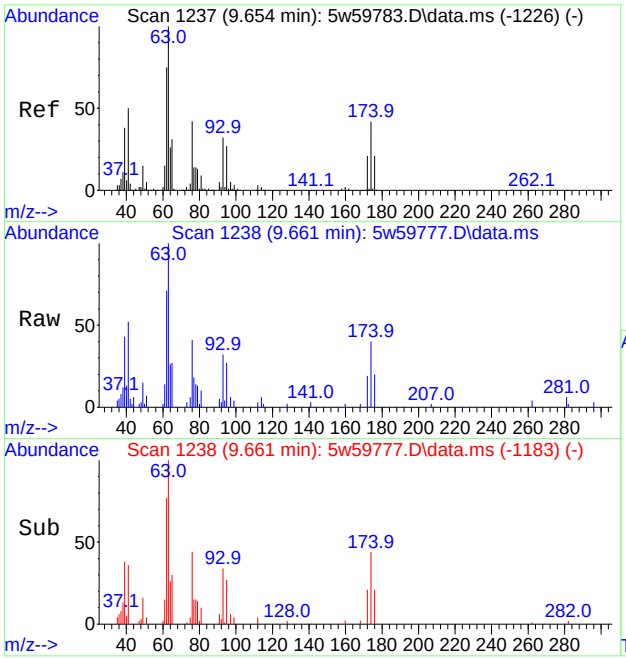


#55
TRICHLOROETHYLENE
Concen: 0.32 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 95 Resp: 37369

Ion	Ratio	Lower	Upper
95	100		
132	96.2	69.0	129.0
130	98.7	70.6	130.6
97	63.6	34.6	94.6

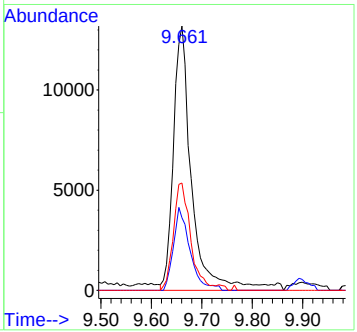


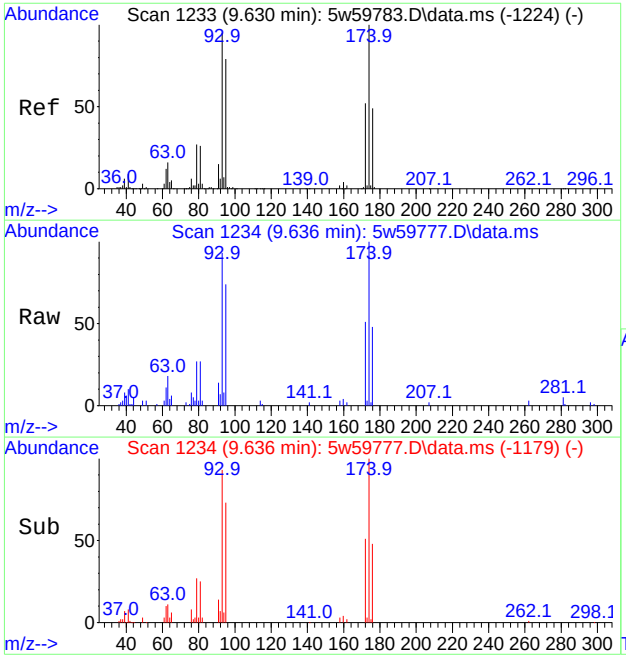


#56
1,2-DICHLOROPROPANE
Concen: 0.35 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 33377

Ion	Ratio	Lower	Upper
63	100		
65	28.2	0.5	60.5
76	39.1	11.5	71.5

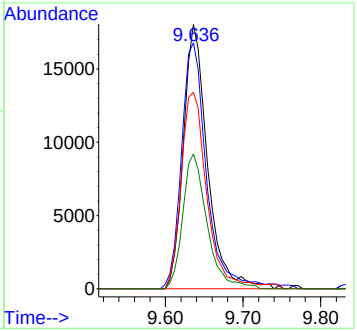


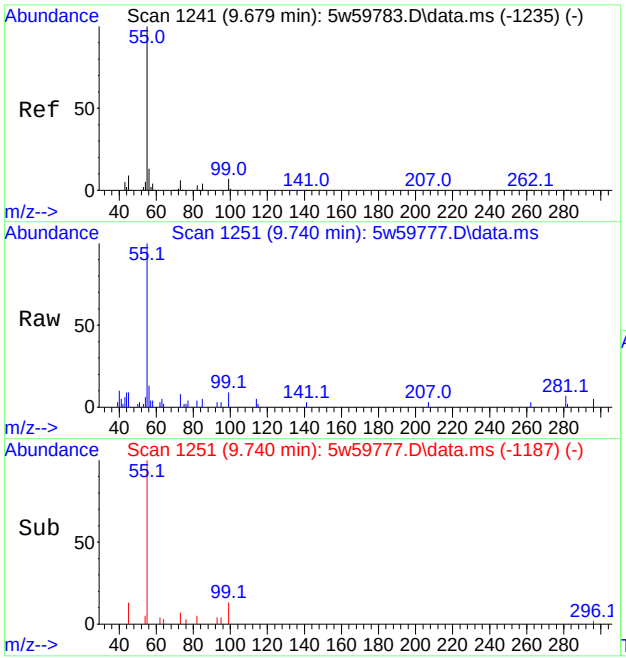


#57
DIBROMOMETHANE
Concen: 0.31 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:174 Resp: 39103

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	80.0	54.5	101.1
172	51.2	36.3	67.5

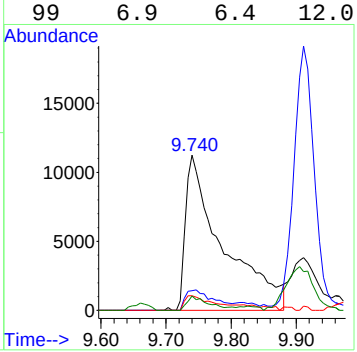


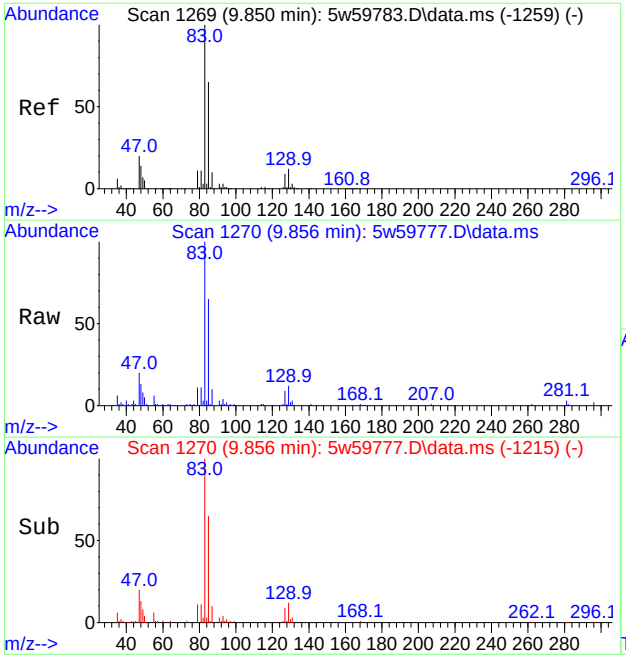


#58
ETHYL ACRYLATE
Concen: 0.25 PPBV
RT: 9.740 min Scan# 1251
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 44771

Ion	Ratio	Lower	Upper
55	100		
56	13.8	8.6	16.0
45	9.9	6.6	12.2
99	6.9	6.4	12.0

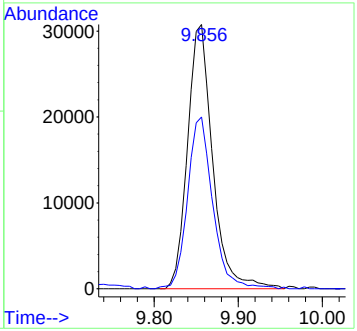


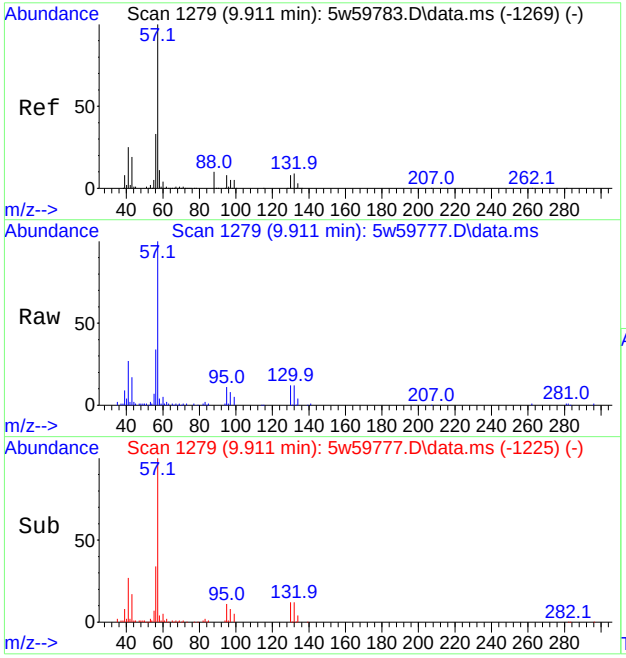


#59
BROMODICHLOROMETHANE
Concen: 0.31 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 64038

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

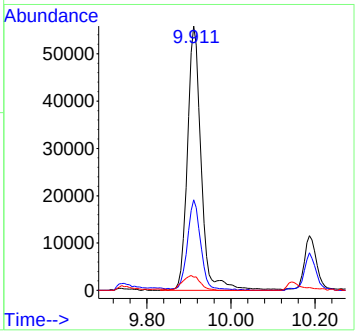


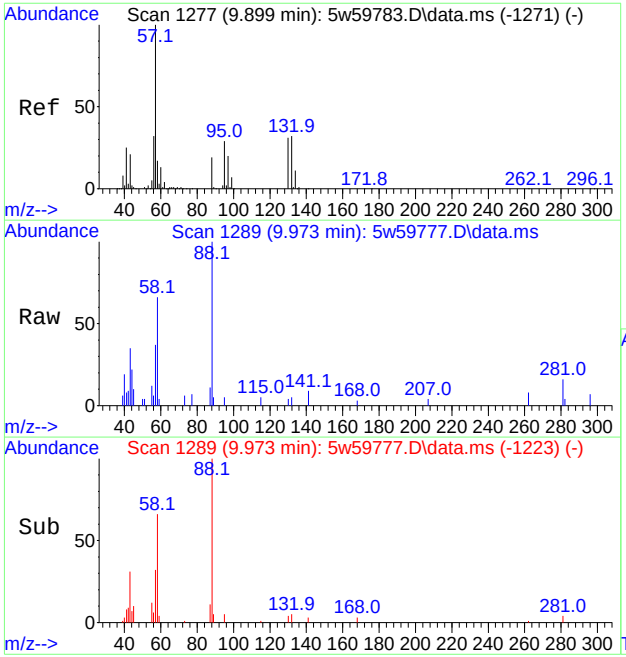


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.35 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 127085

Ion	Ratio	Lower	Upper
57	100		
56	33.3	2.5	62.5
99	7.3	0.0	37.3

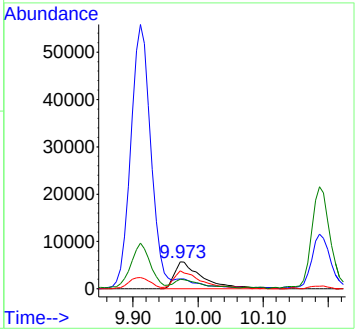


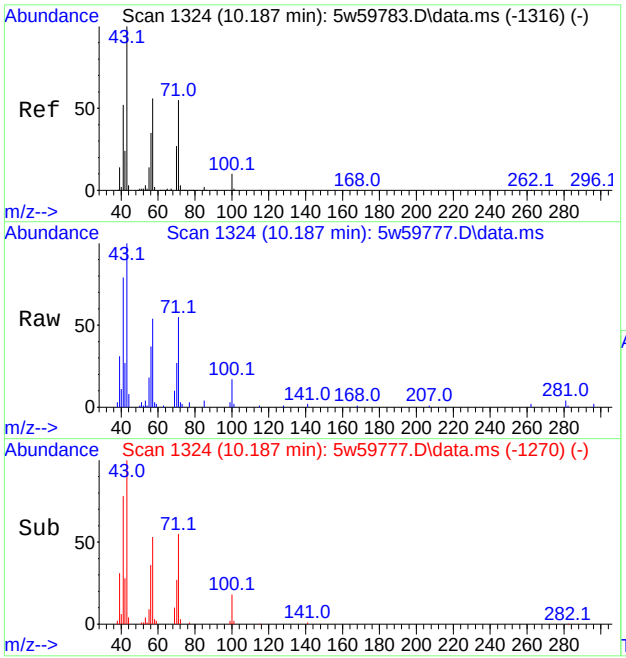


#61
1,4-DIOXANE
Concen: 0.32 PPBV
RT: 9.973 min Scan# 1289
Delta R.T. 0.074 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 88 Resp: 17043

Ion	Ratio	Lower	Upper
88	100		
57	36.5	494.2	554.2#
58	66.1	58.9	118.9
43	35.3	78.3	138.3#

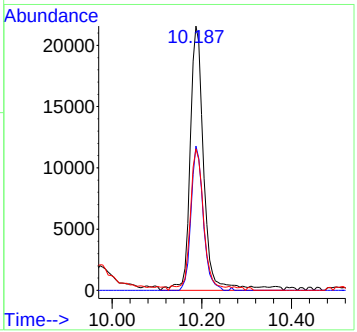


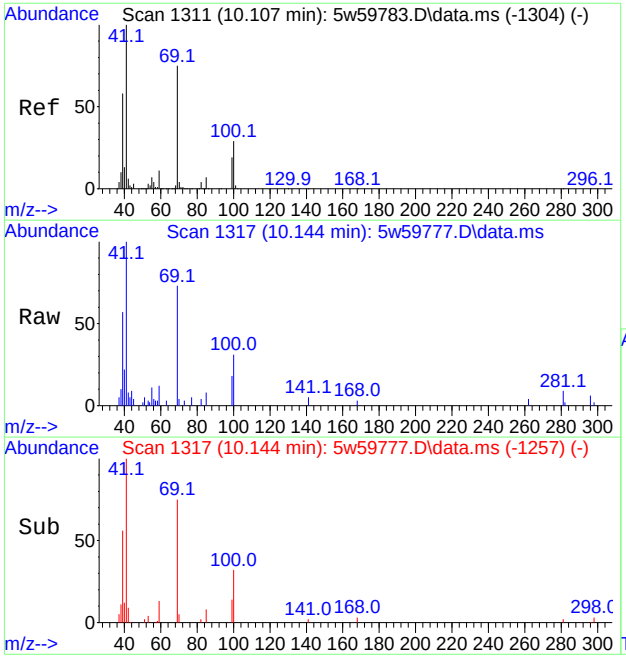


#62
HEPTANE
Concen: 0.38 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 45917

Ion	Ratio	Lower	Upper
43	100		
71	48.0	24.5	84.5
57	53.4	26.2	86.2

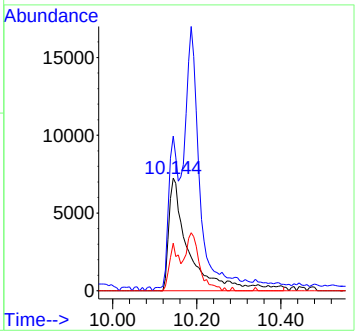


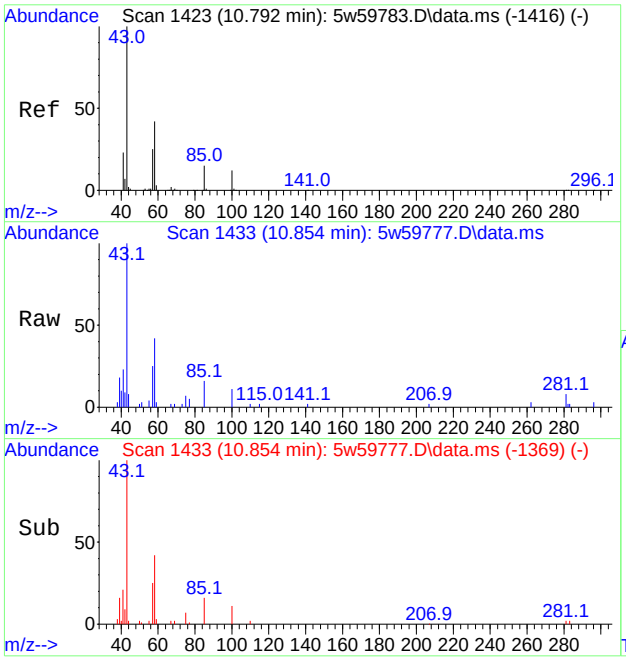


#63
METHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 10.144 min Scan# 1317
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 24229

Ion	Ratio	Lower	Upper
69	100		
41	73.7	95.3	155.3#
100	22.5	6.3	66.3

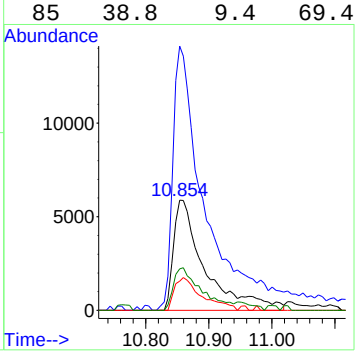


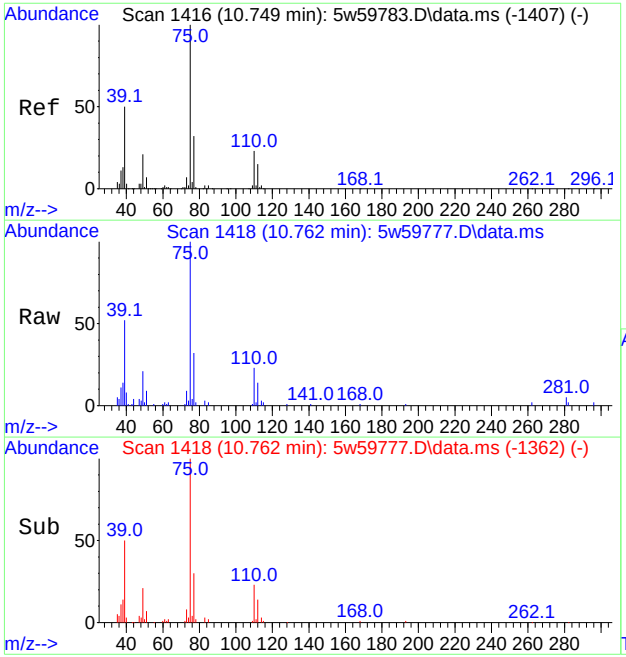


#64
METHYL ISOBUTYL KETONE
Concen: 0.27 PPBV
RT: 10.854 min Scan# 1433
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 20298

Ion	Ratio	Lower	Upper
58	100		
43	262.8	209.2	269.2
100	26.0	0.0	58.8
85	38.8	9.4	69.4

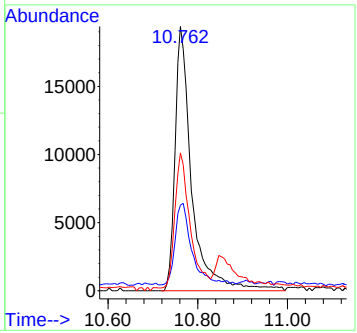


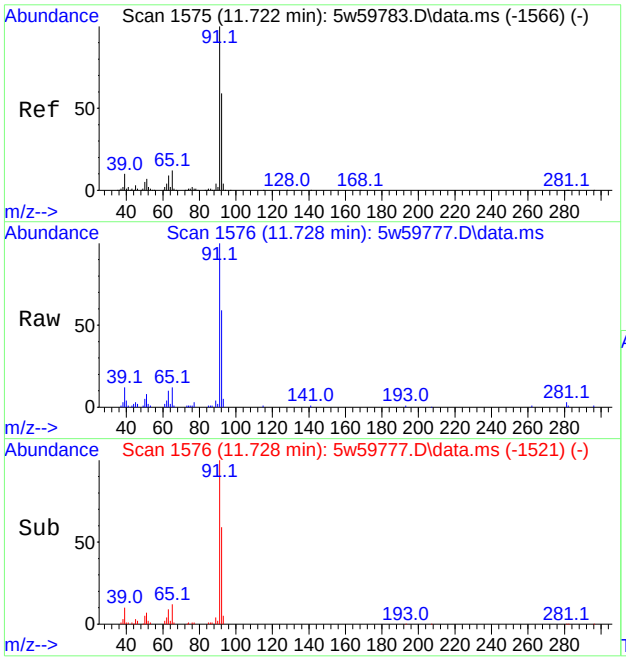


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.32 PPBV
RT: 10.762 min Scan# 1418
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 50330

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	47.9	34.3	94.3

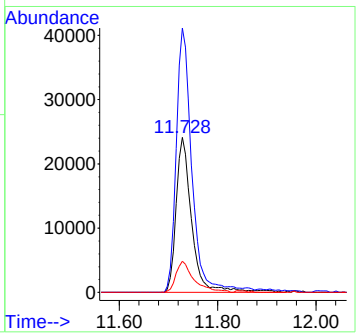


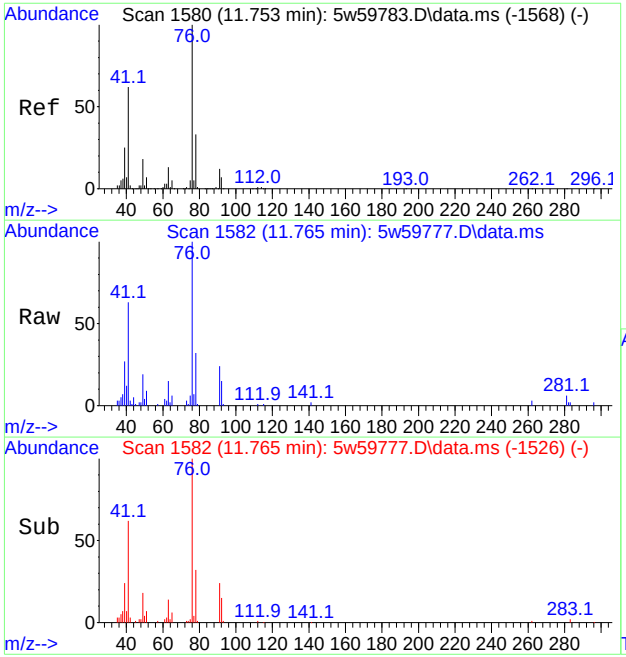


#66
TOLUENE
Concen: 0.31 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 92 Resp: 53175

Ion	Ratio	Lower	Upper
92	100		
91	174.5	140.1	200.1
65	23.0	0.0	53.1

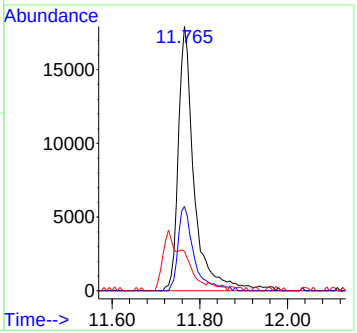


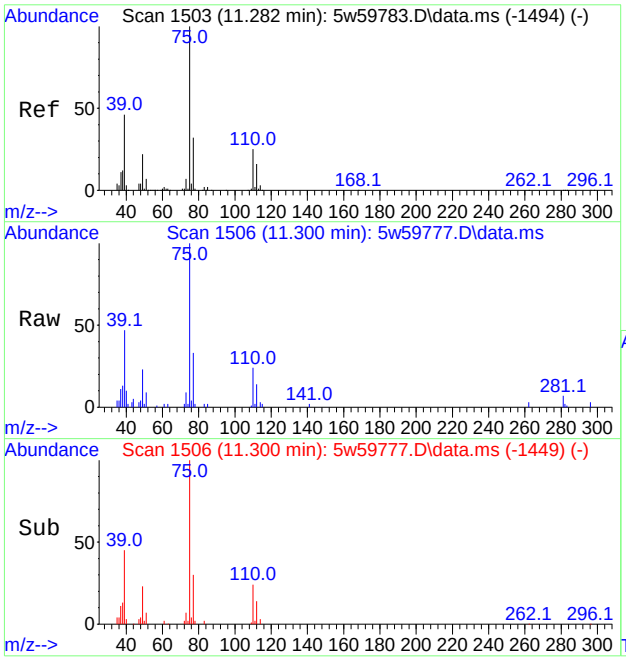


#67
1,3-DICHLOROPROPANE
Concen: 0.32 PPBV
RT: 11.765 min Scan# 1582
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 45275

Ion	Ratio	Lower	Upper
76	100		
78	31.9	23.2	43.0
63	0.0	7.1	13.1#

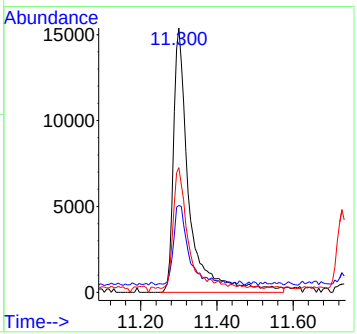


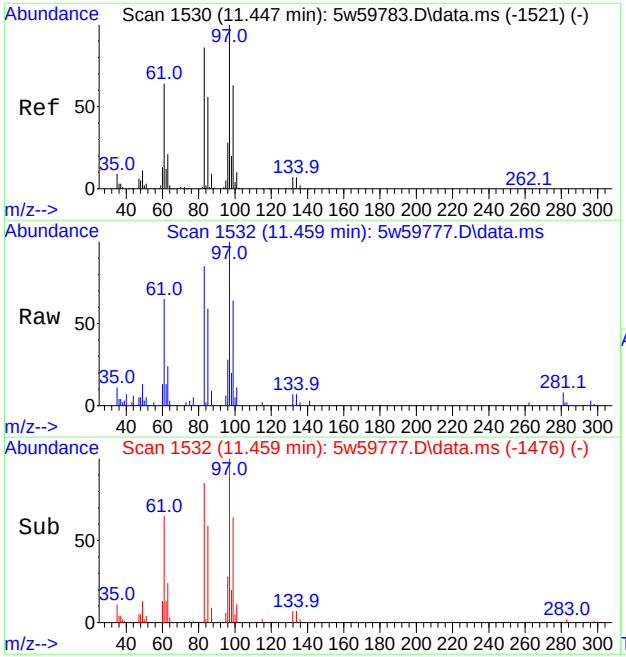


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.30 PPBV
RT: 11.300 min Scan# 1506
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 44098

Ion	Ratio	Lower	Upper
75	100		
77	28.5	1.6	61.6
39	49.3	16.1	76.1

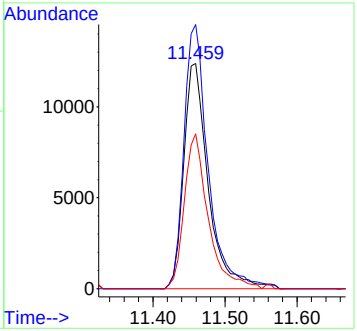


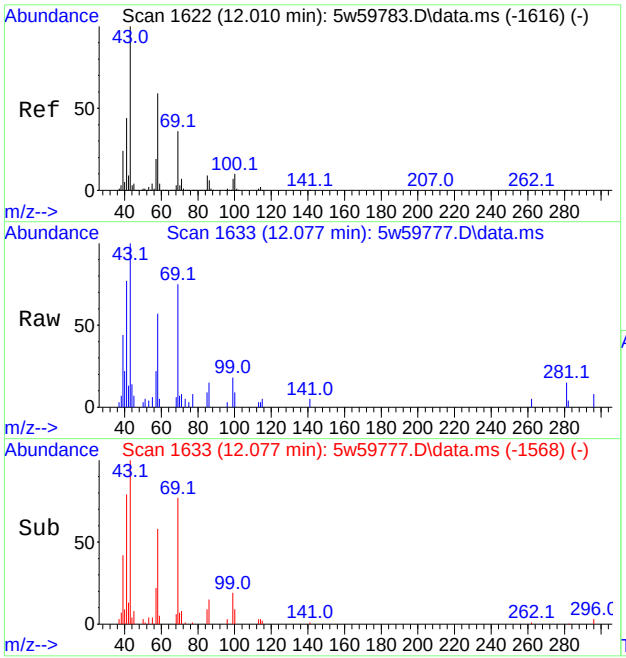


#69
1,1,2-TRICHLOROETHANE
Concen: 0.31 PPBV
RT: 11.459 min Scan# 1532
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 29376

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	66.8	35.3	95.3

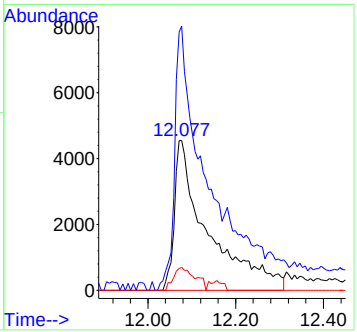


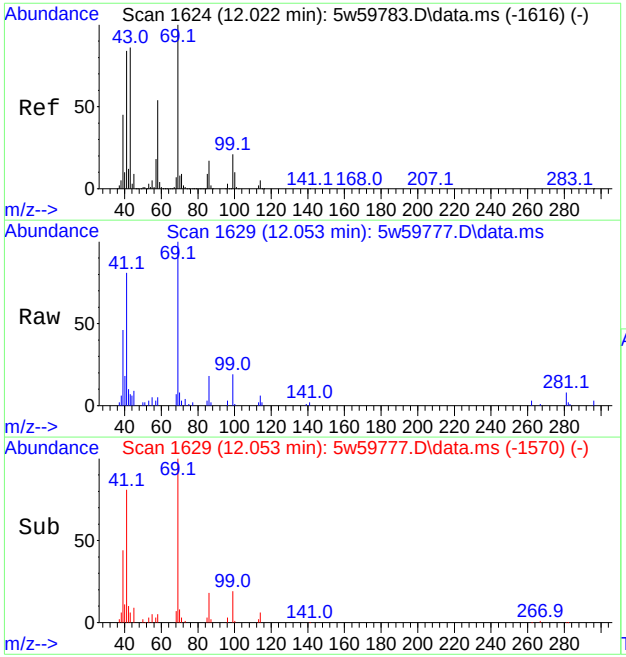


#71
2-HEXANONE
Concen: 0.25 PPBV
RT: 12.077 min Scan# 1633
Delta R.T. 0.067 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 24053

Ion	Ratio	Lower	Upper
58	100		
43	181.6	137.2	197.2
100	9.8	0.0	46.9

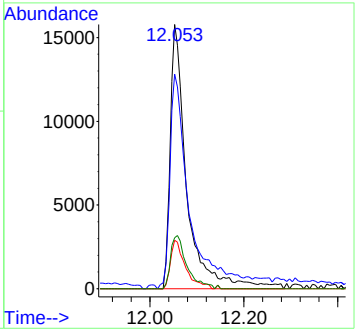


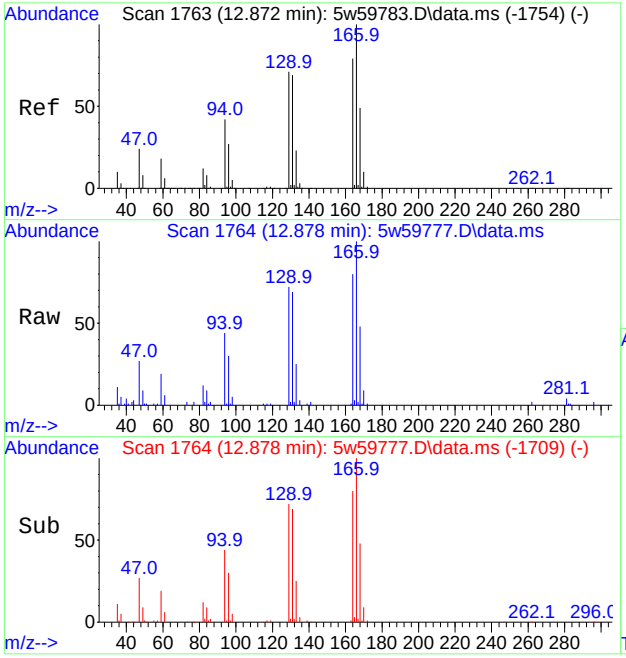


#72
ETHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 12.053 min Scan# 1629
Delta R.T. 0.031 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 39133

Ion	Ratio	Lower	Upper
69	100		
41	104.7	64.0	119.0
86	16.5	12.0	22.4
99	19.9	15.0	27.8

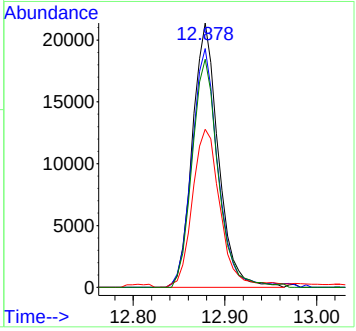


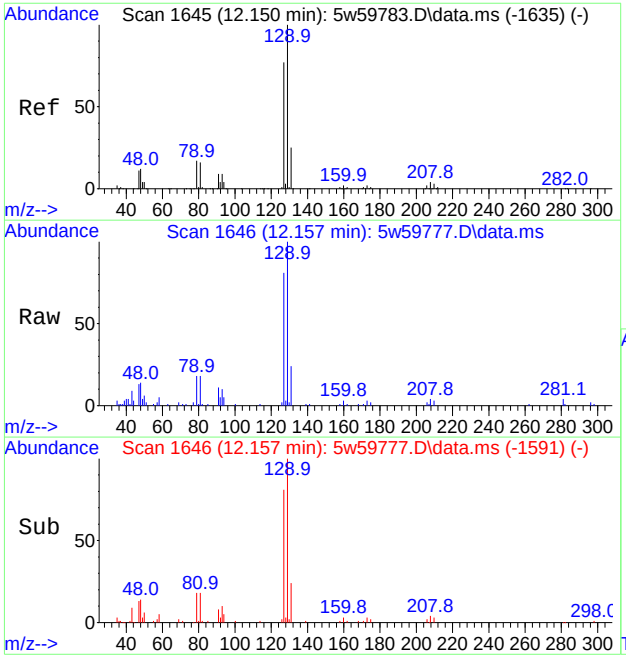


#73
TETRACHLOROETHYLENE
Concen: 0.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:164 Resp: 42039

Ion	Ratio	Lower	Upper
164	100		
129	92.1	59.7	119.7
168	67.5	32.2	92.2
131	87.3	57.8	117.8

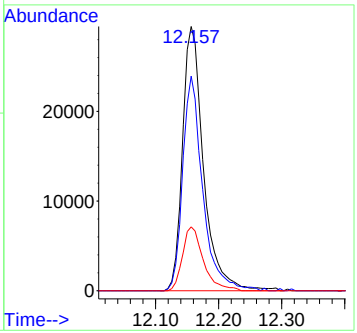


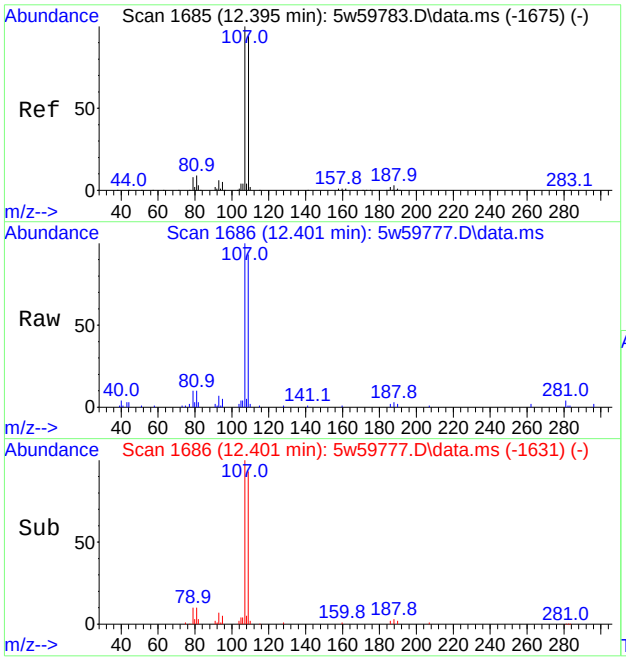


#74
DIBROMOCHLOROMETHANE
Concen: 0.33 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:129 Resp: 68347

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.0	0.0	54.5

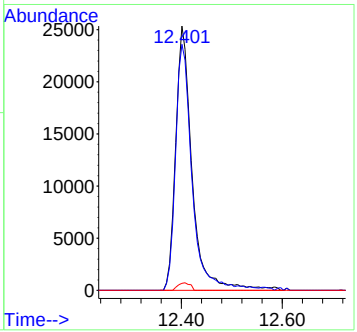


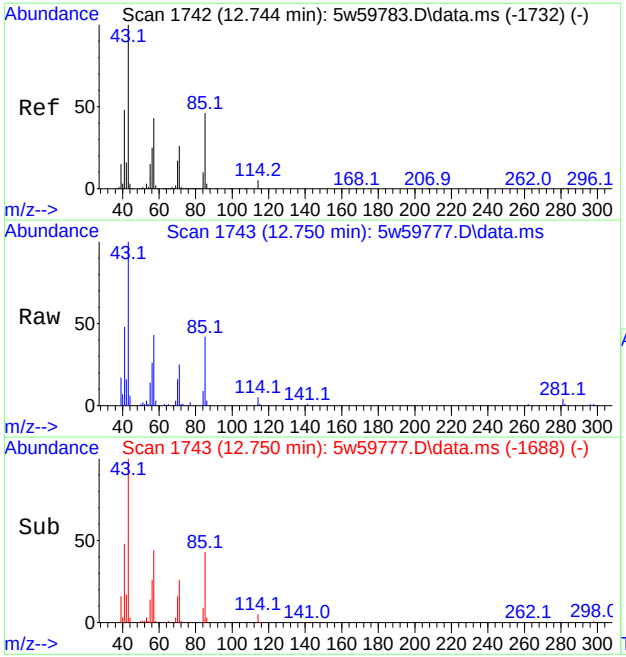


#75
1,2-DIBROMOETHANE
Concen: 0.36 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:107 Resp: 57560

Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.8	124.8
188	2.2	0.0	32.8

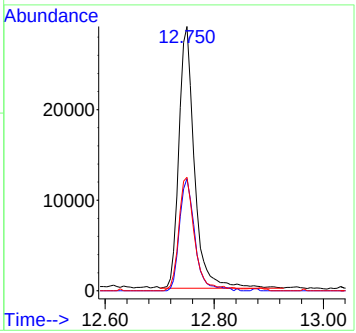


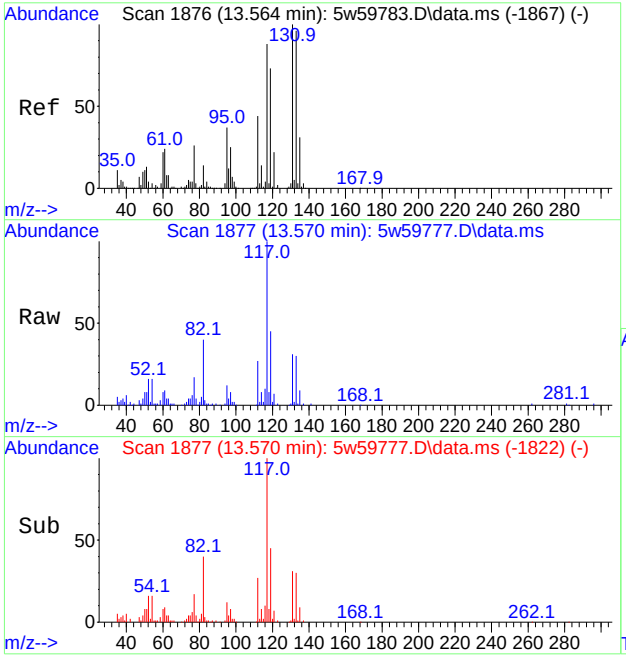


#76
OCTANE
Concen: 0.37 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 57196

Ion	Ratio	Lower	Upper
43	100		
85	42.4	14.6	74.6
57	45.8	13.7	73.7

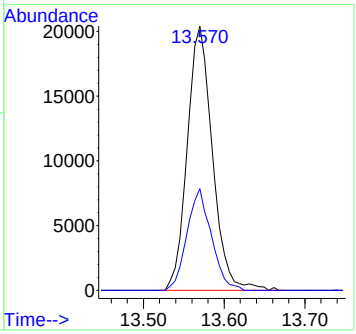


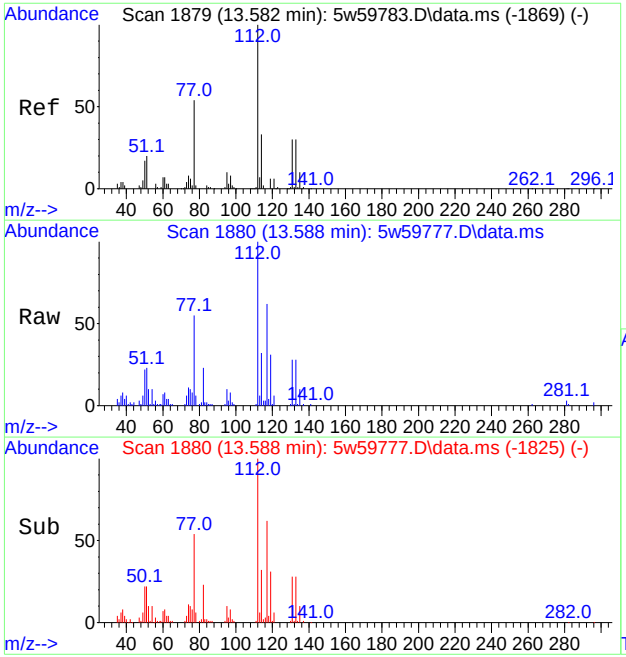


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.34 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:131 Resp: 44229

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

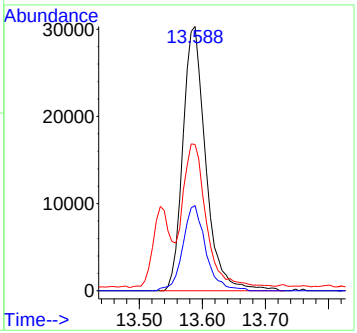


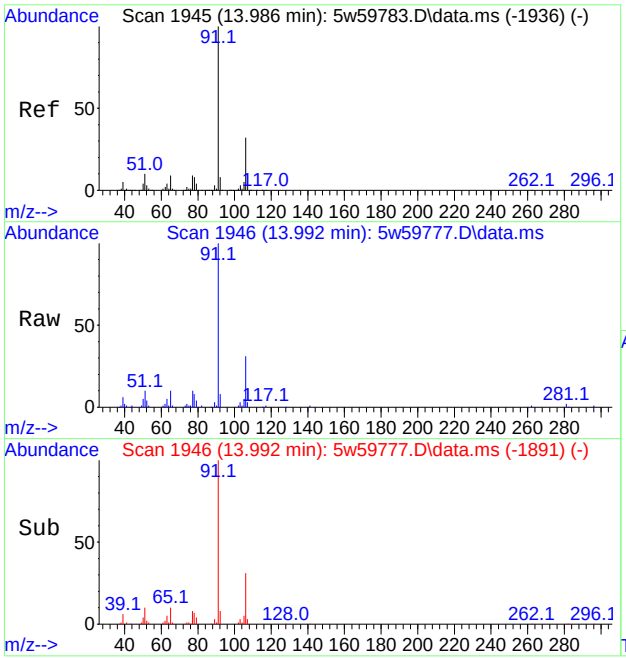


#78
CHLOROBENZENE
Concen: 0.36 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:112 Resp: 76482

Ion	Ratio	Lower	Upper
112	100		
114	32.3	2.6	62.6
77	54.6	25.4	85.4

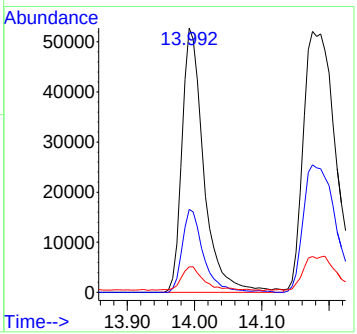


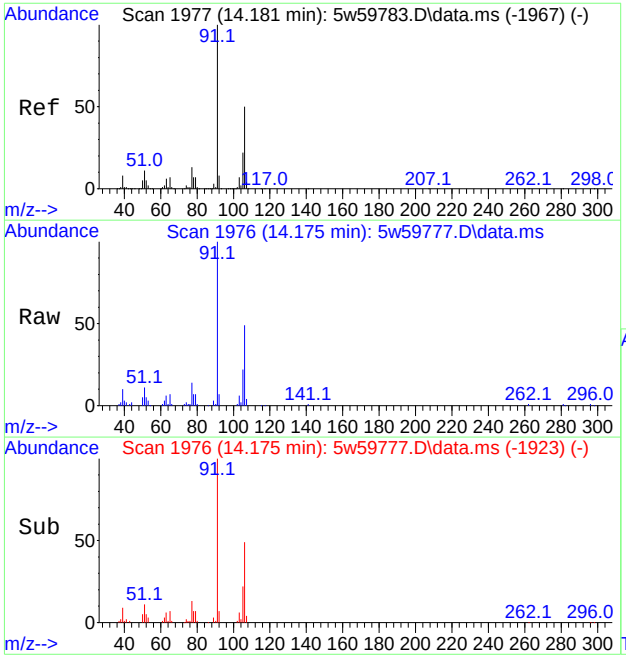


#79
ETHYLBENZENE
Concen: 0.37 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 119442

Ion	Ratio	Lower	Upper
91	100		
106	30.6	1.3	61.3
77	9.8	0.0	38.6

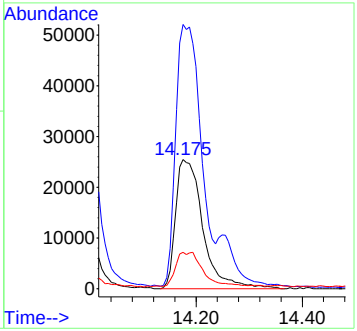


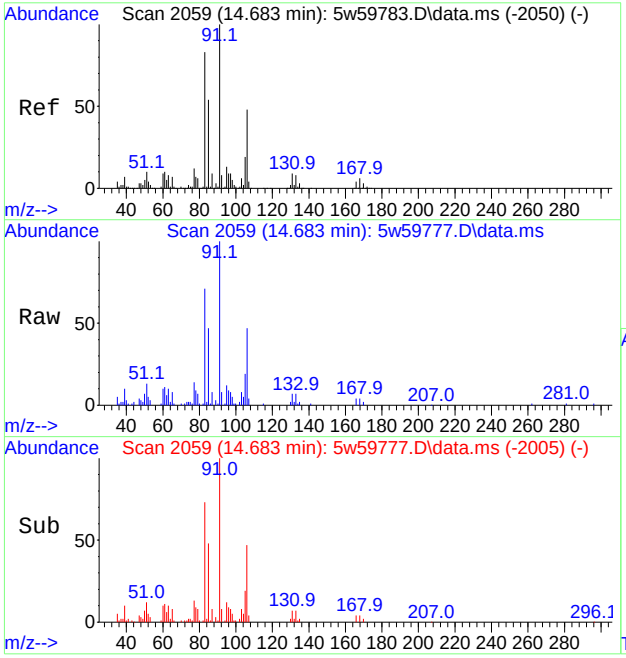


#80
m,p-XYLENE
Concen: 0.70 PPBV
RT: 14.175 min Scan# 1976
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 91065

Ion	Ratio	Lower	Upper
106	100		
91	204.5	171.0	231.0
77	28.2	0.0	56.7

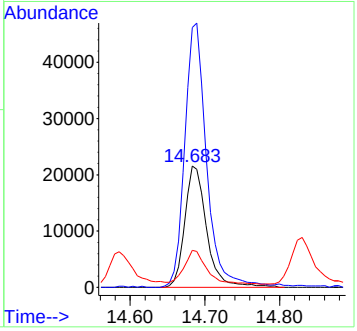


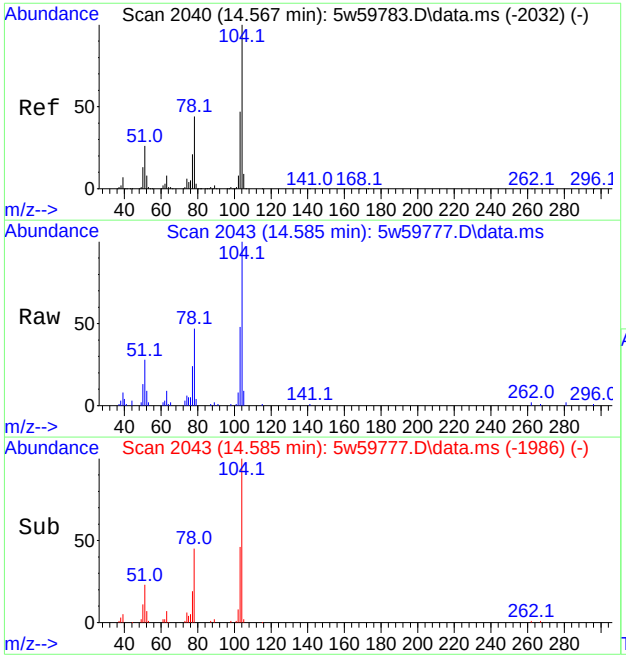


#81
o-XYLENE
Concen: 0.35 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 43793

Ion	Ratio	Lower	Upper
106	100		
91	220.8	181.6	241.6
77	30.0	0.0	56.6

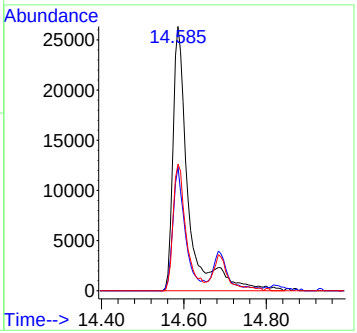


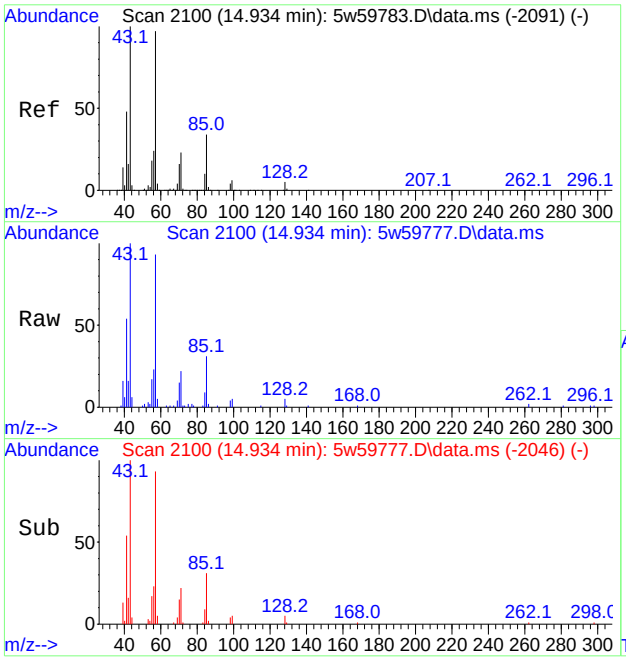


#82
STYRENE
Concen: 0.36 PPBV
RT: 14.585 min Scan# 2043
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:104 Resp: 68779

Ion	Ratio	Lower	Upper
104	100		
78	38.1	13.3	73.3
103	40.5	17.2	77.2

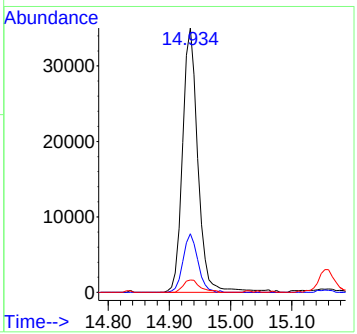


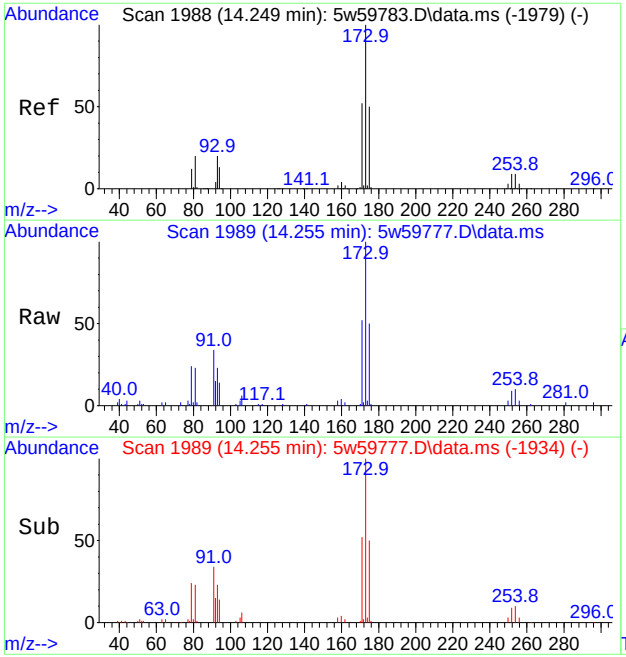


#83
NONANE
Concen: 0.39 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 61419

Ion	Ratio	Lower	Upper
43	100		
71	21.3	0.0	52.7
128	5.1	0.0	34.7

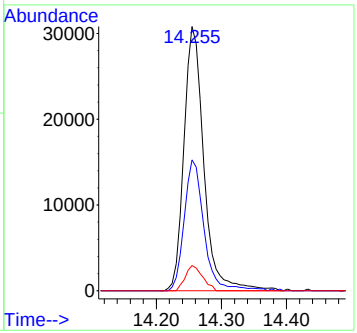


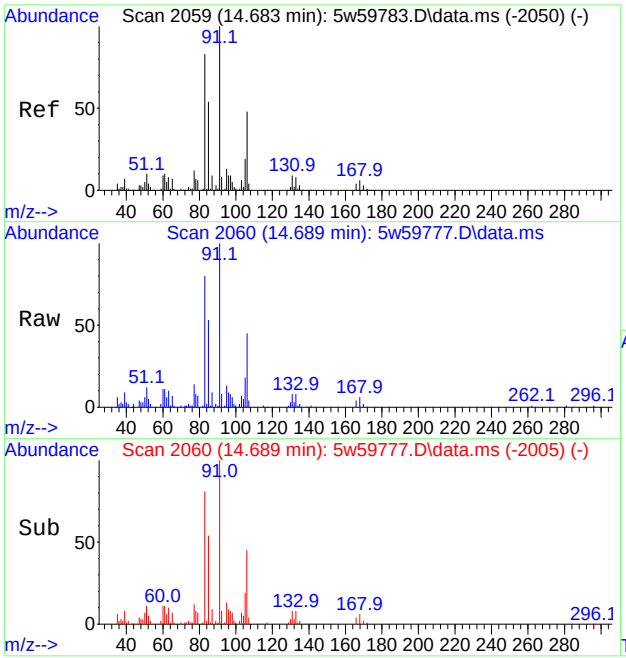


#84
BROMOFORM
Concen: 0.31 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:173 Resp: 65517

Ion	Ratio	Lower	Upper
173	100		
175	49.3	19.6	79.6
254	8.2	0.0	39.0

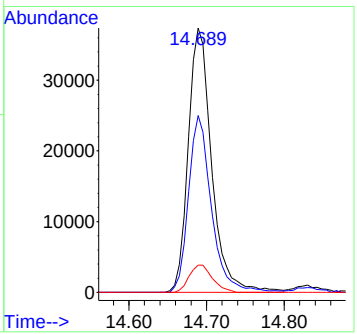


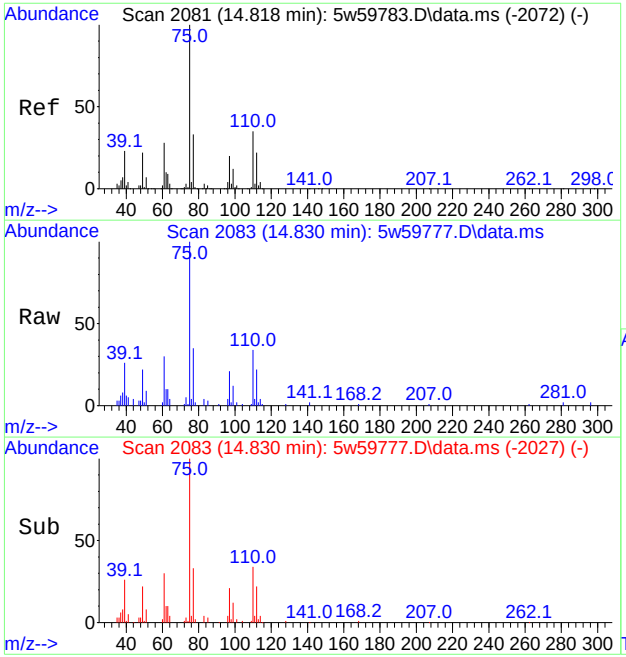


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.37 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 78542

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.2	95.2
131	10.3	0.0	40.3

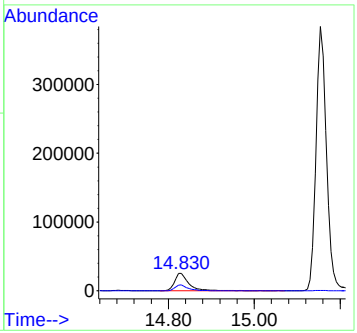


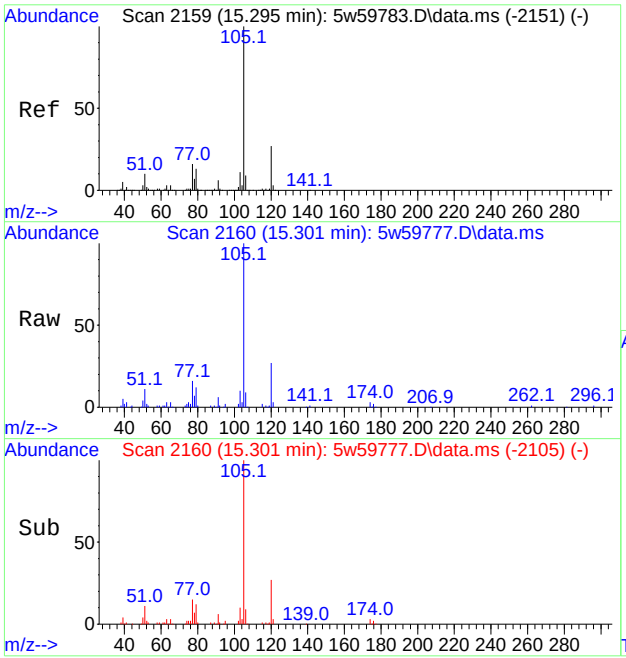


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.37 PPBV
RT: 14.830 min Scan# 2083
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 59513

Ion	Ratio	Lower	Upper
75	100		
110	30.7	4.4	64.4

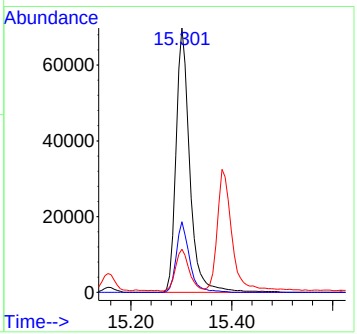


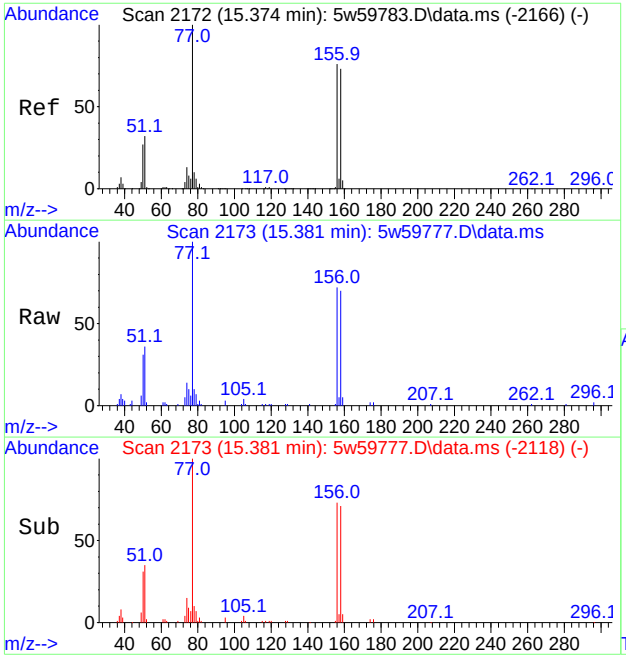


#88
ISOPROPYLBENZENE
Concen: 0.35 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 132085

Ion	Ratio	Lower	Upper
105	100		
120	25.5	0.0	56.0
77	15.4	0.0	45.6

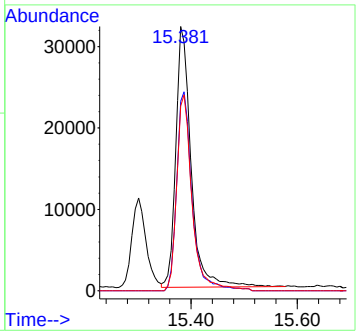


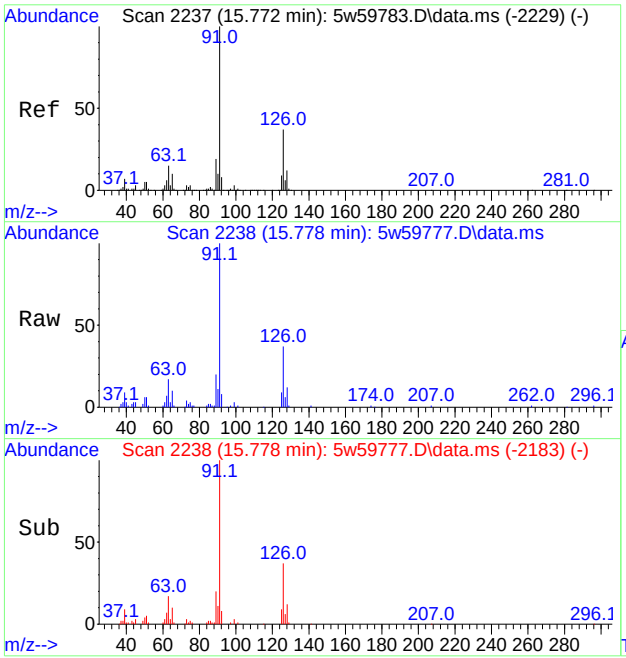


#89
BROMOBENZENE
Concen: 0.34 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 77 Resp: 64086

Ion	Ratio	Lower	Upper
77	100		
156	76.9	54.9	101.9
158	75.5	53.5	99.3

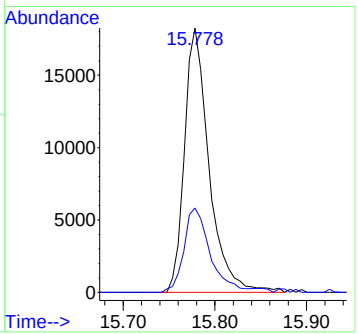


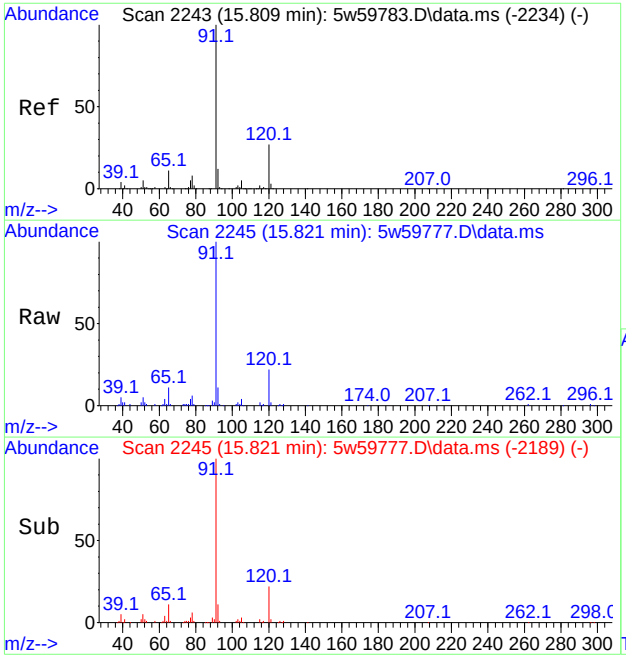


#90
2-CHLOROTOLUENE
Concen: 0.33 PPBV
RT: 15.778 min Scan# 2238
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:126 Resp: 34084

Ion	Ratio	Lower	Upper
126	100		
128	34.8	2.7	62.7

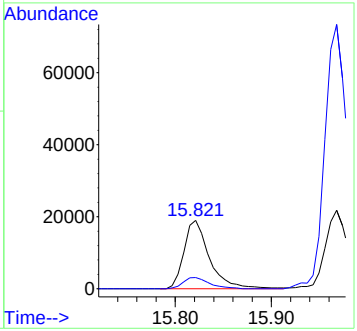


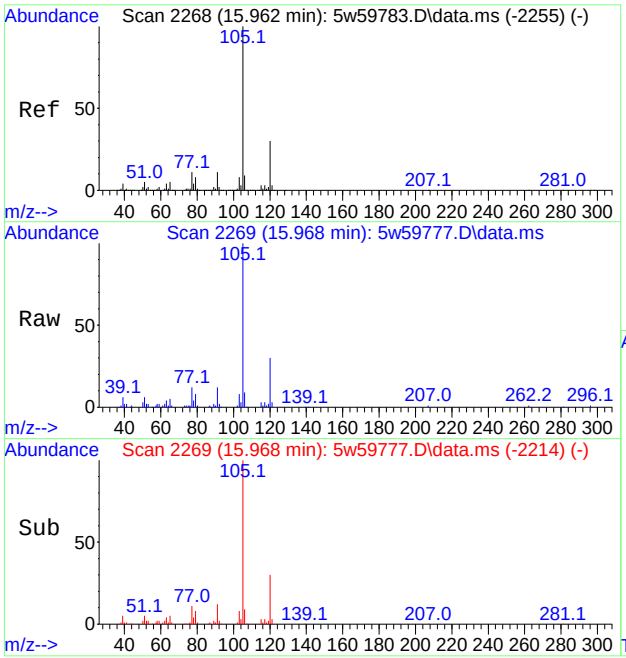


#91
n-PROPYLBENZENE
Concen: 0.34 PPBV
RT: 15.821 min Scan# 2245
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:120 Resp: 35058

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

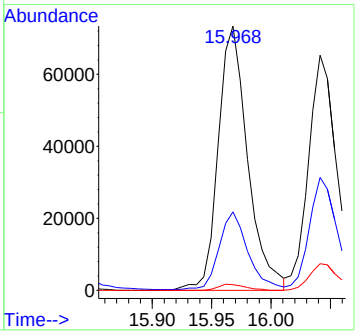


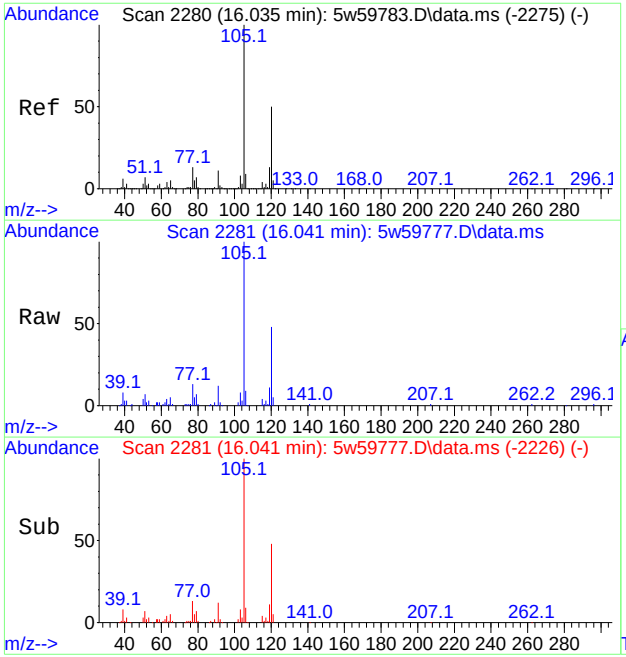


#92
4-ETHYLTOLUENE
Concen: 0.35 PPBV
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 126699

Ion	Ratio	Lower	Upper
105	100		
120	29.4	0.0	59.9
119	2.1	0.0	32.3

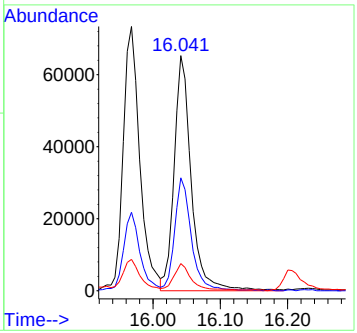


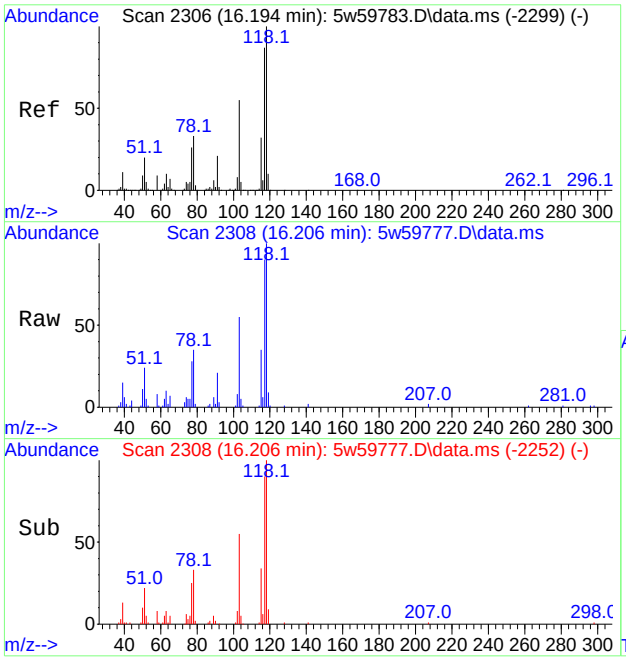


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.38 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 115870

Ion	Ratio	Lower	Upper
105	100		
120	47.0	19.4	79.4
91	12.8	0.0	40.8

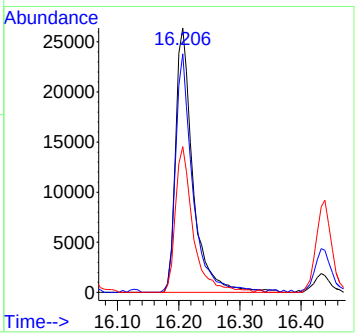




#94
ALPHA-METHYLSTYRENE
Concen: 0.31 PPBV
RT: 16.206 min Scan# 2308
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

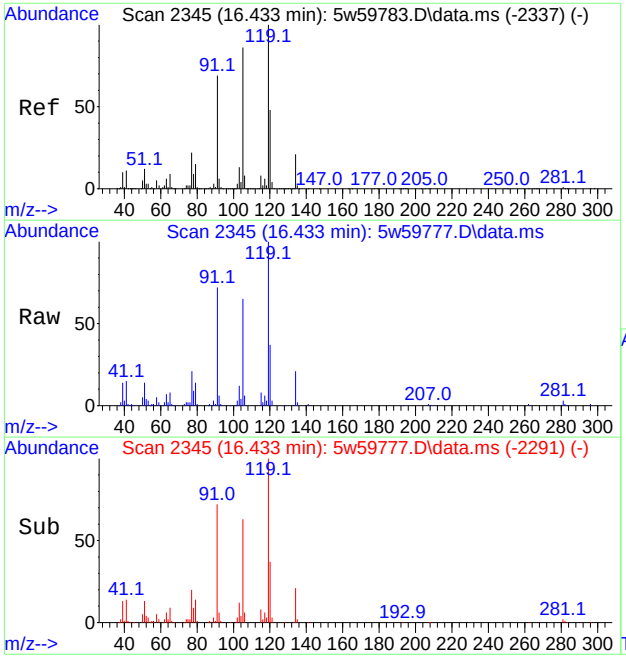
Tgt Ion:118 Resp: 51966

Ion	Ratio	Lower	Upper
118	100		
117	89.3	60.9	113.1
103	55.9	38.6	71.8



7.7.4

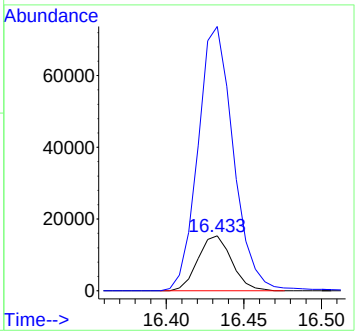
7

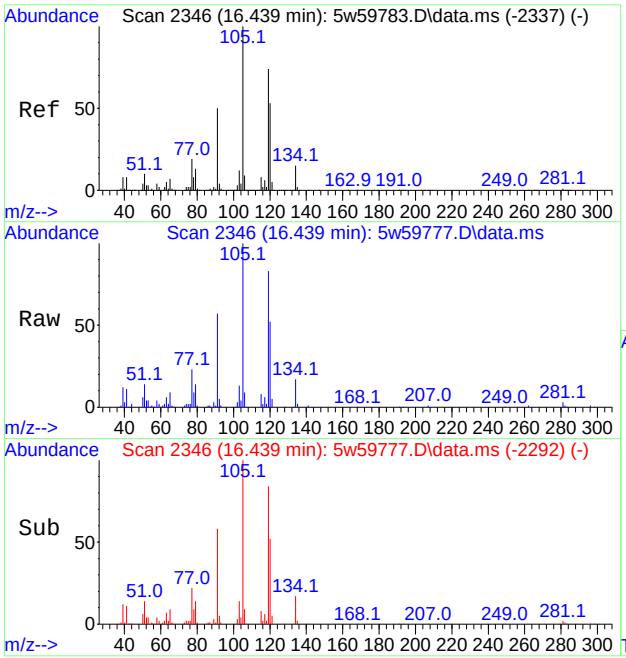


#95
tert-BUTYLBENZENE
Concen: 0.35 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 23128

Ion	Ratio	Lower	Upper
134	100		
119	509.5	459.3	519.3

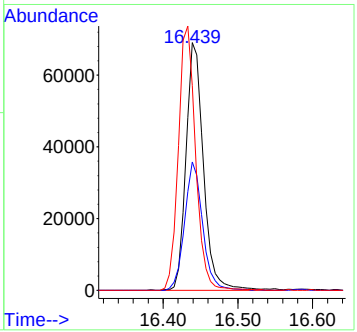


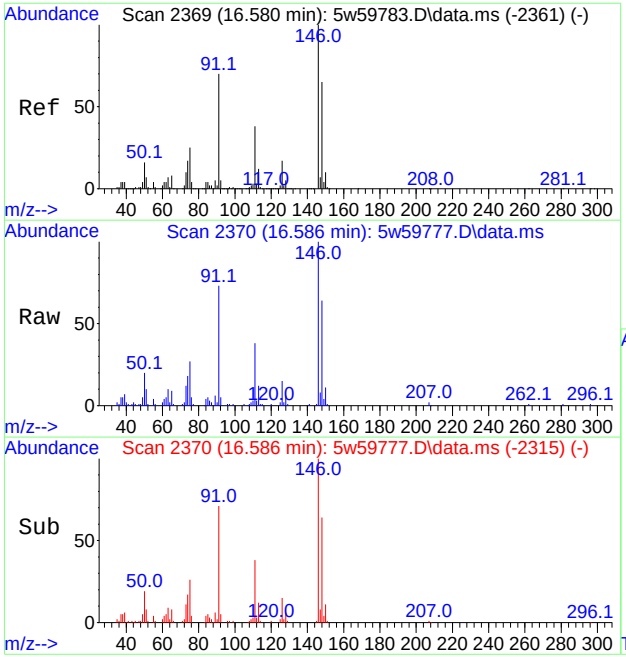


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 112549

Ion	Ratio	Lower	Upper
105	100		
120	53.3	25.7	85.7
119	104.7	75.7	135.7

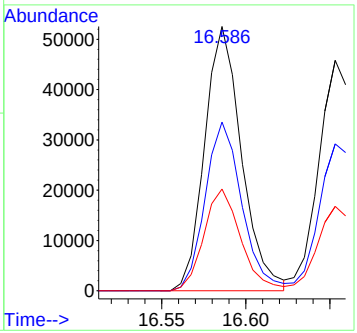


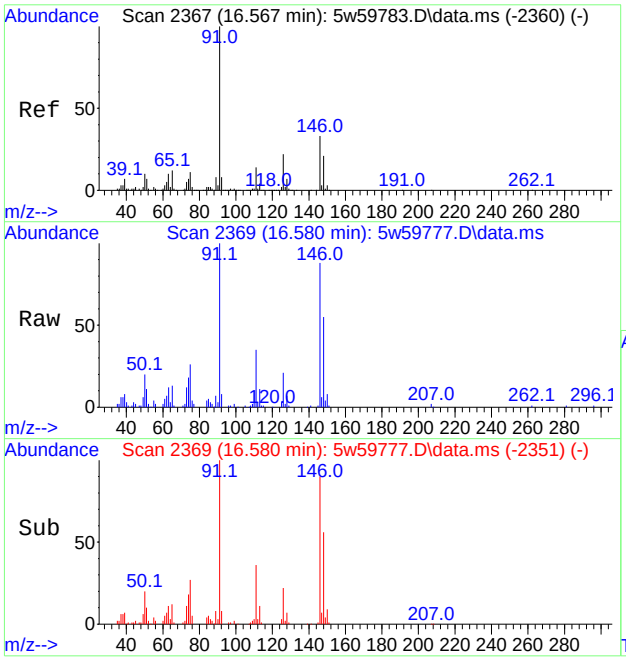


#97
m-DICHLOROBENZENE
Concen: 0.33 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 80323

Ion	Ratio	Lower	Upper
146	100		
148	63.5	34.8	94.8
111	38.5	8.2	68.2

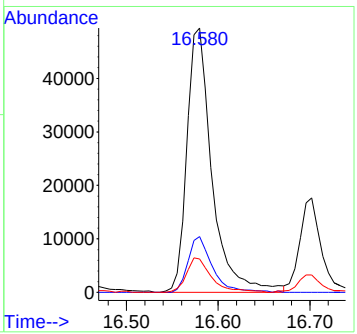


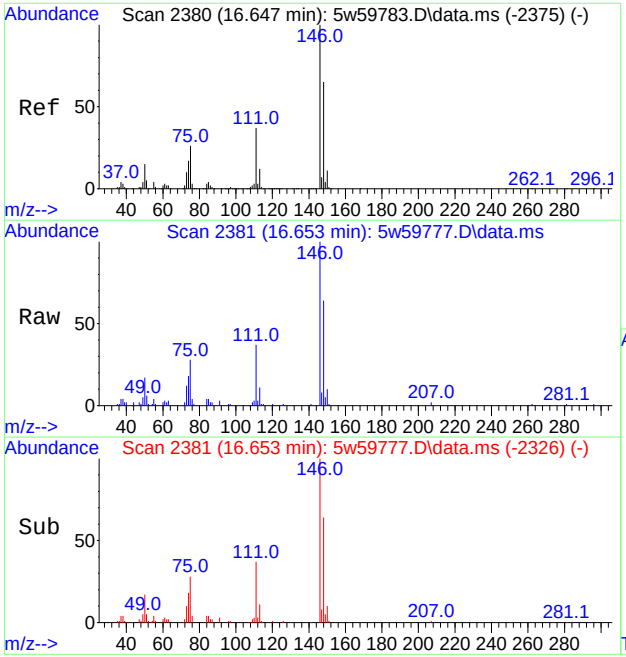


#98
BENZYL CHLORIDE
Concen: 0.31 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 94193

Ion	Ratio	Lower	Upper
91	100		
126	20.4	0.0	51.7
65	13.1	0.0	42.2

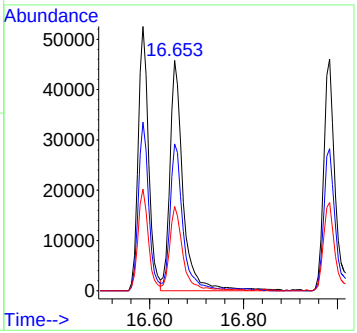


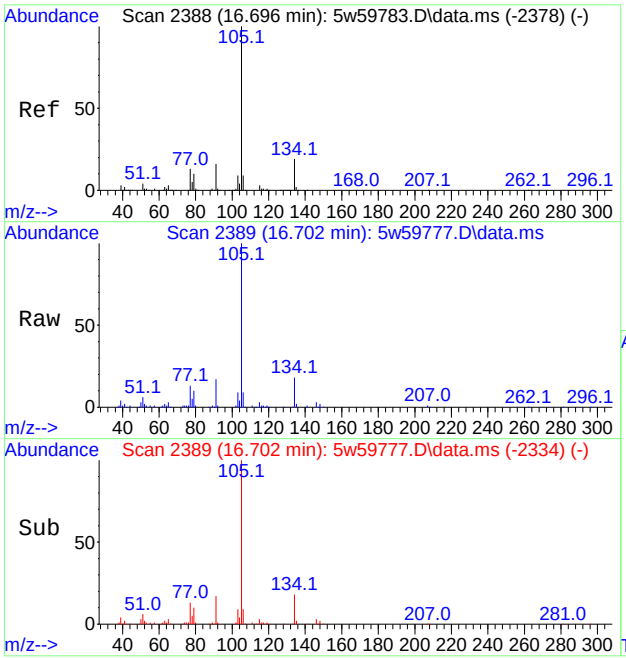


#99
p-DICHLOROBENZENE
Concen: 0.38 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 89982

Ion	Ratio	Lower	Upper
146	100		
148	63.9	34.6	94.6
111	37.0	6.7	66.7

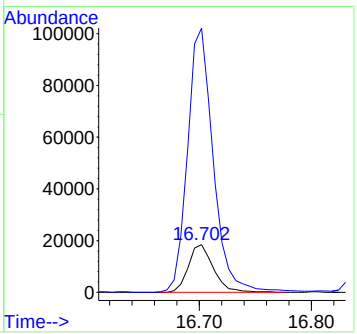


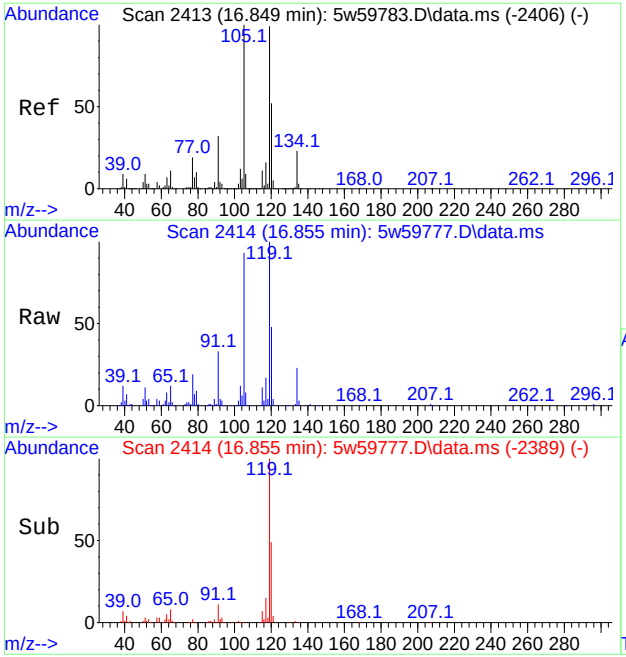


#100
sec-BUTYLBENZENE
Concen: 0.34 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 28746

Ion	Ratio	Lower	Upper
134	100		
105	570.2	502.5	562.5#

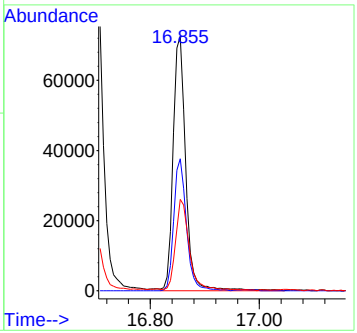


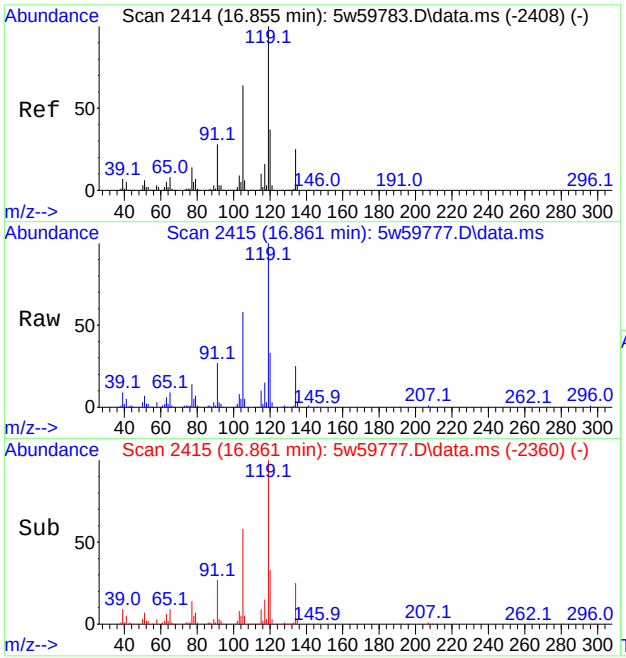


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 117540

Ion	Ratio	Lower	Upper
105	100		
120	51.6	23.5	83.5
91	39.7	7.4	67.4

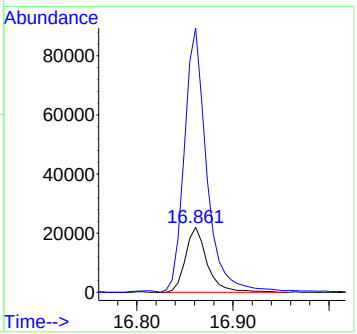


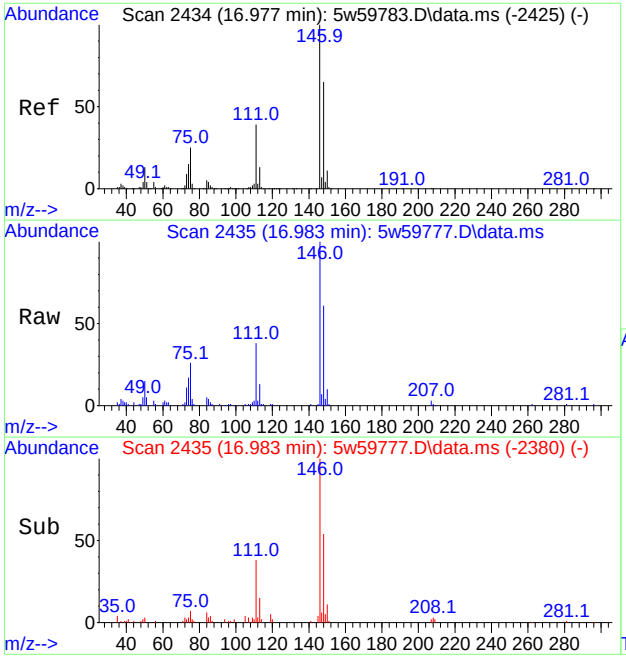


#102
p-ISOPROPYLTOLUENE
Concen: 0.35 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 34620

Ion	Ratio	Lower	Upper
134	100		
119	423.3	377.7	437.7

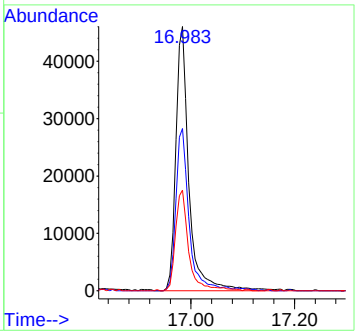


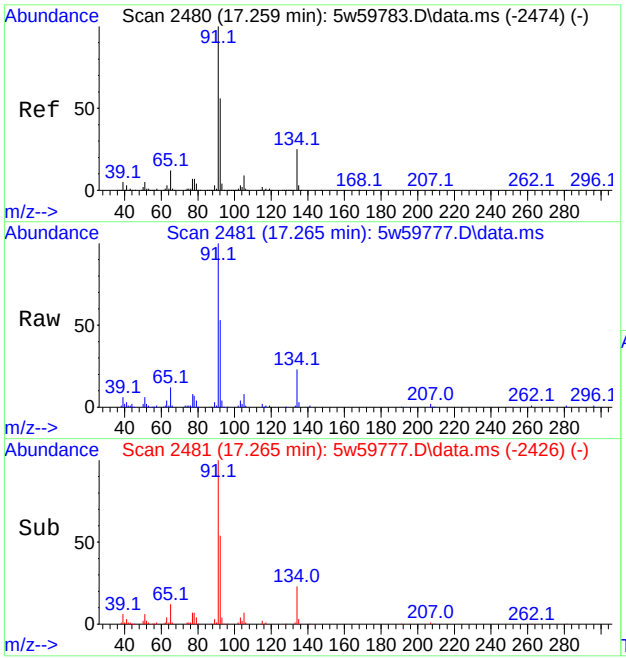


#103
o-DICHLOROBENZENE
Concen: 0.35 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 81336

Ion	Ratio	Lower	Upper
146	100		
148	61.4	34.3	94.3
111	38.4	9.2	69.2

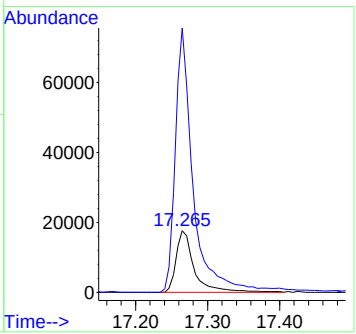


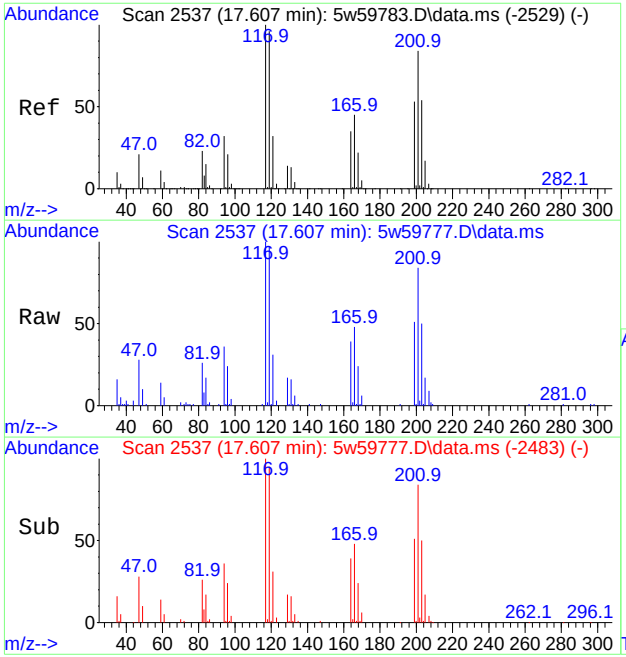


#104
n-BUTYLBENZENE
Concen: 0.32 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 31100

Ion	Ratio	Lower	Upper
134	100		
91	433.4	363.1	423.1#

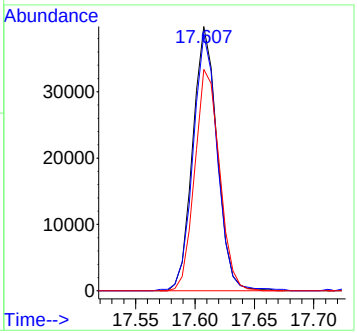


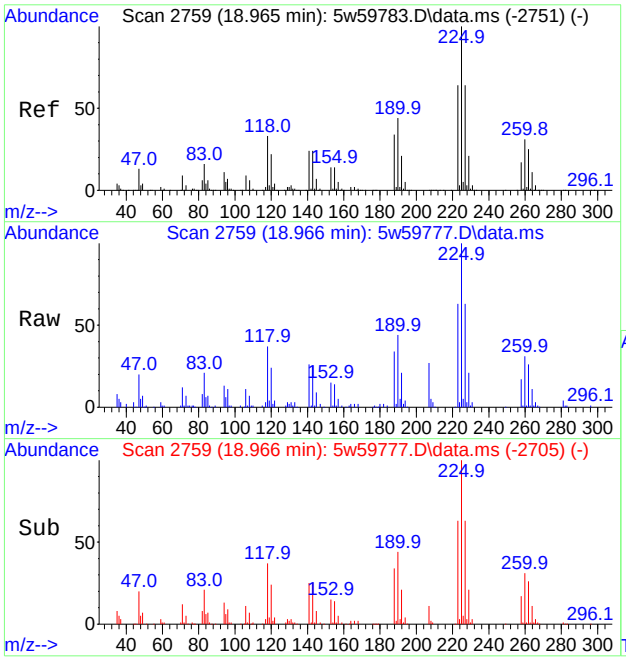


#105
HEXACHLOROETHANE
Concen: 0.36 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 56860

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	84.8	61.1	113.5

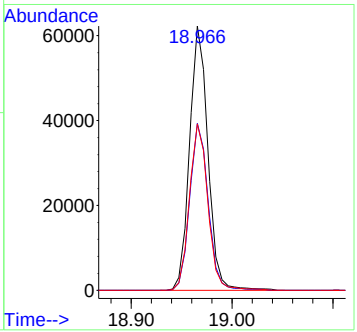


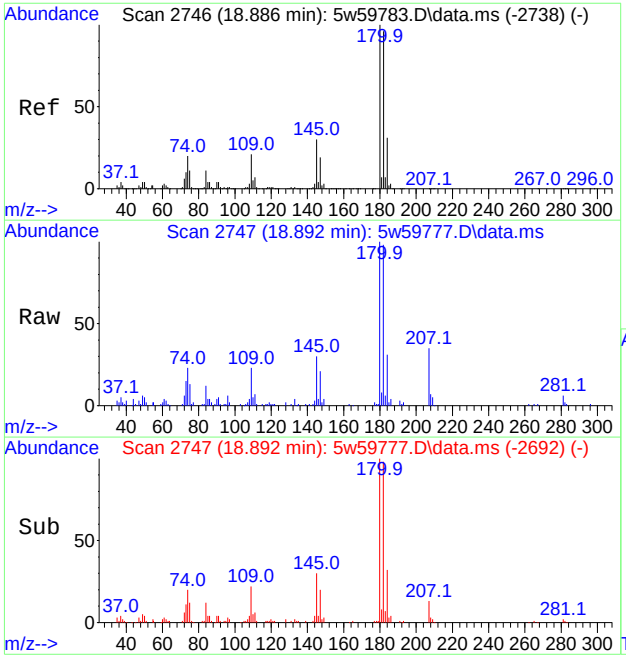


#106
HEXACHLOROBUTADIENE
Concen: 0.35 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:225 Resp: 78824

Ion	Ratio	Lower	Upper
225	100		
227	63.7	34.2	94.2
223	63.4	33.3	93.3

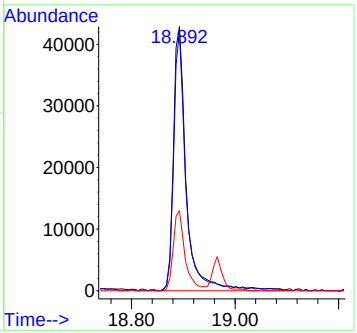


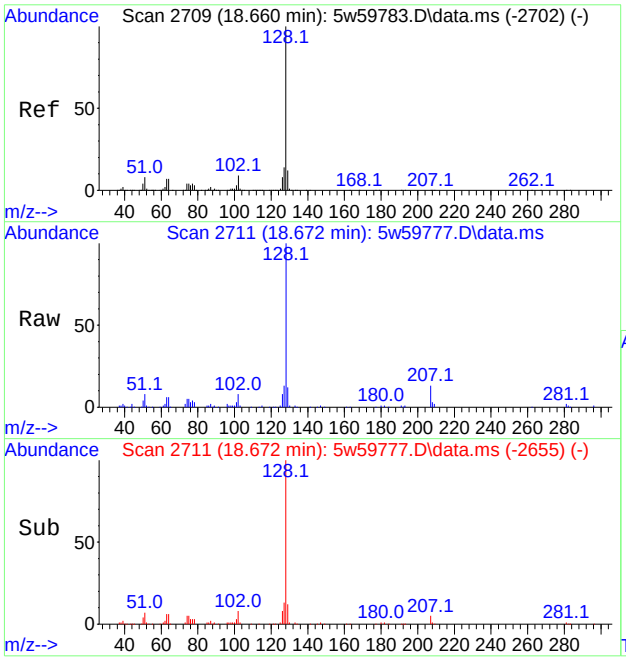


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.33 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:180 Resp: 74442

Ion	Ratio	Lower	Upper
180	100		
182	94.6	65.4	125.4
145	27.7	0.0	59.4

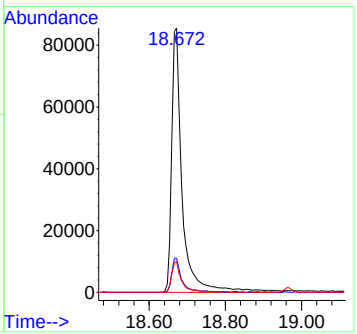


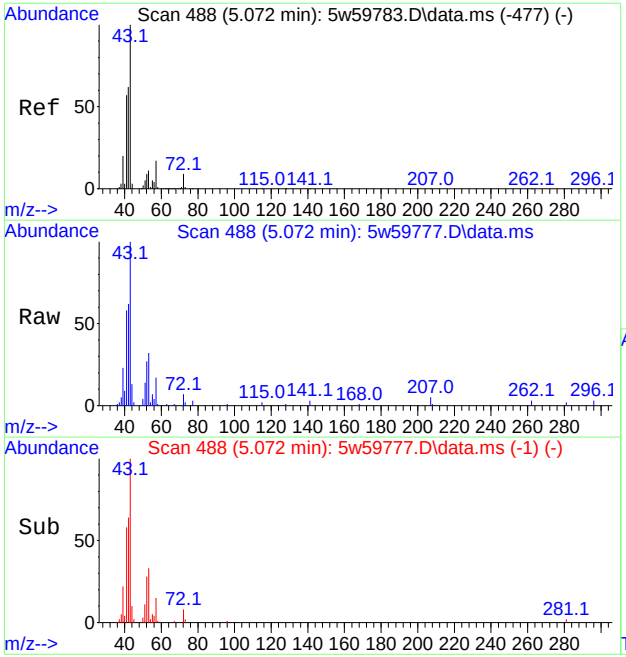


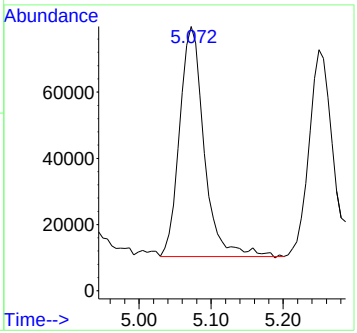
#108
NAPHTHALENE
Concen: 0.33 PPBV
RT: 18.672 min Scan# 2711
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:128 Resp: 165689

Ion	Ratio	Lower	Upper
128	100		
127	12.3	0.0	43.3
129	10.7	0.0	41.4







#110
TVHC as equiv Pentane
Concen: 0.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:TIC Resp: 163703

Manual Integration Approval Summary

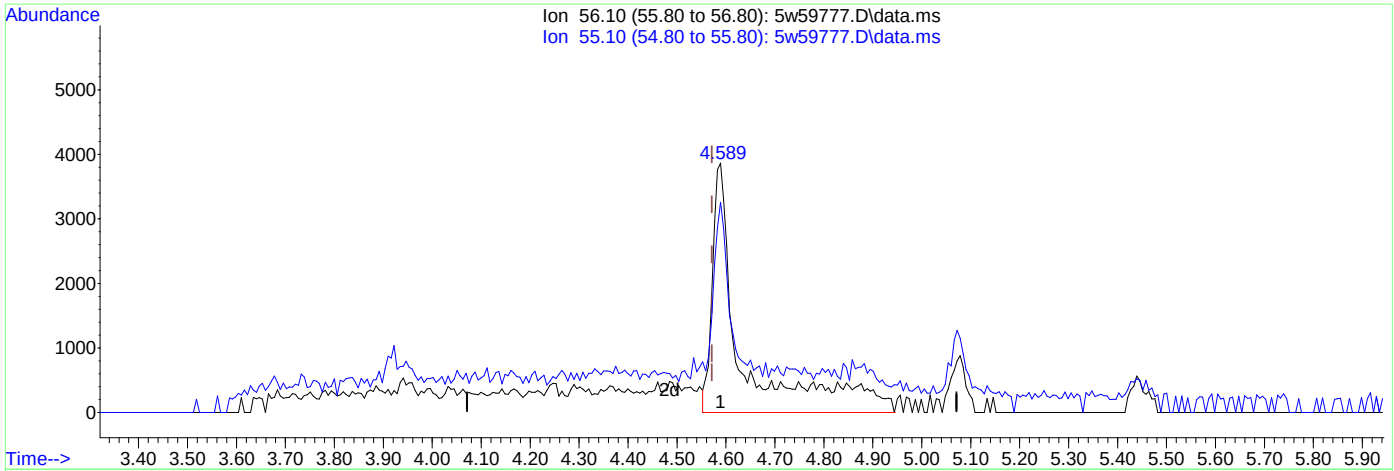
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59777.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 03:41 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

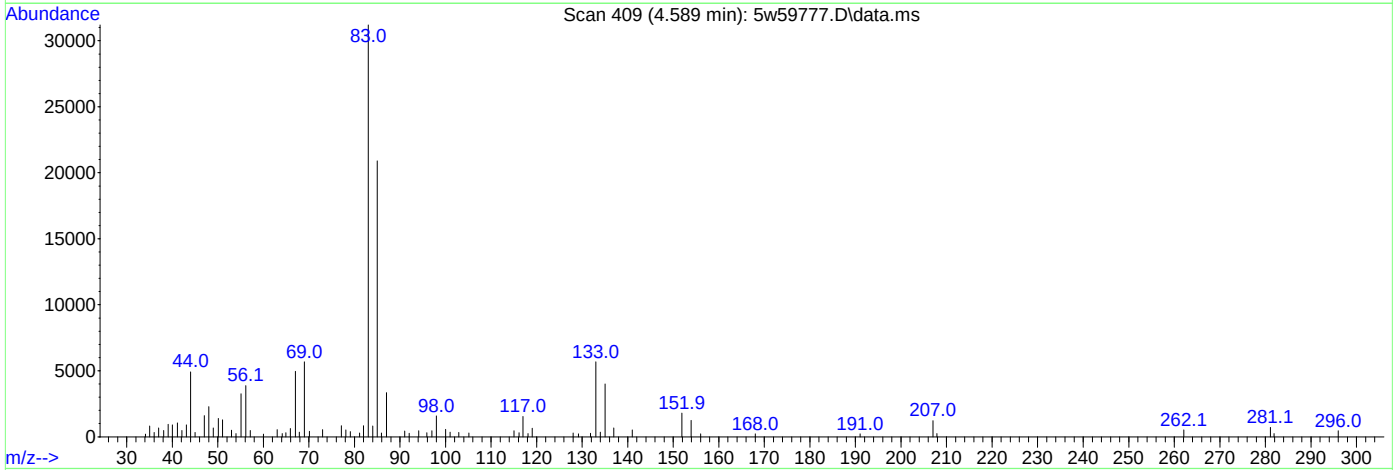
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.59	Poor instrument integration
Freon 123	306-83-2		4.59	Poor instrument integration
Methyl Acrylate	96-33-3		7.45	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.63PPBV

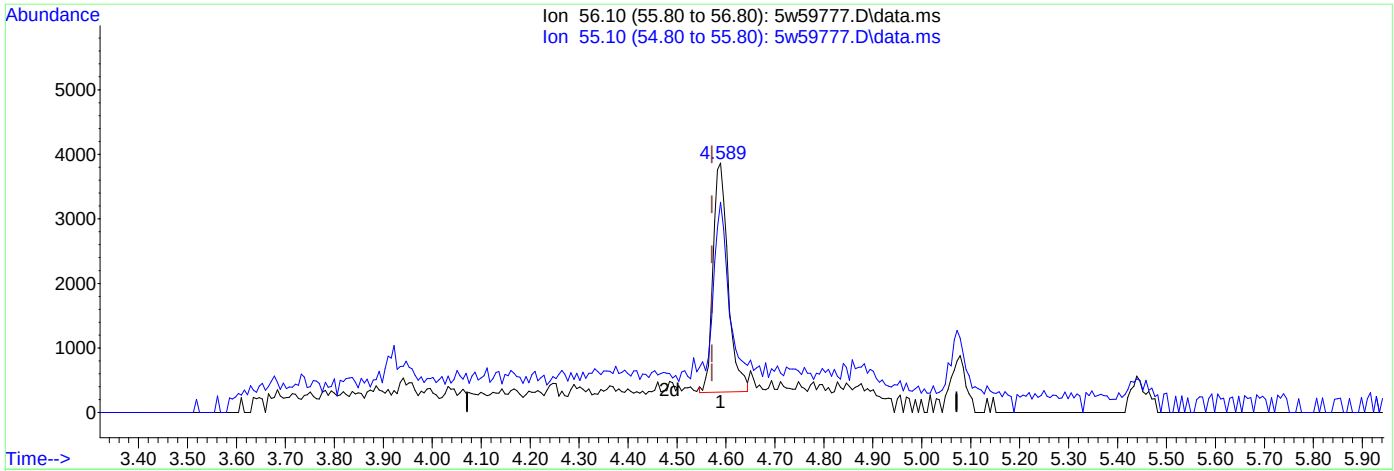
response 15953

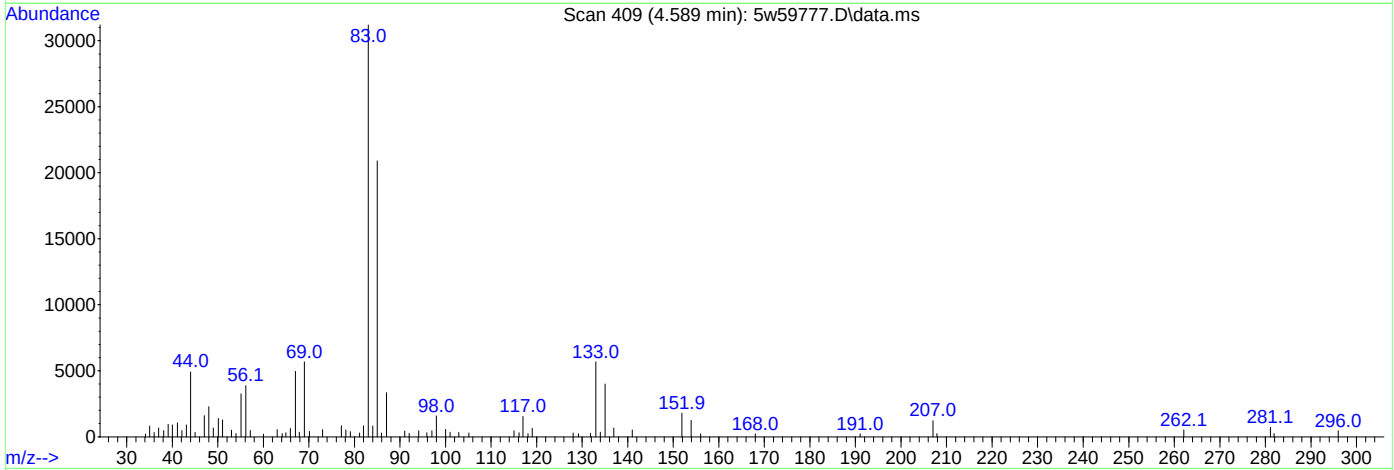
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	37.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.30PPBV m

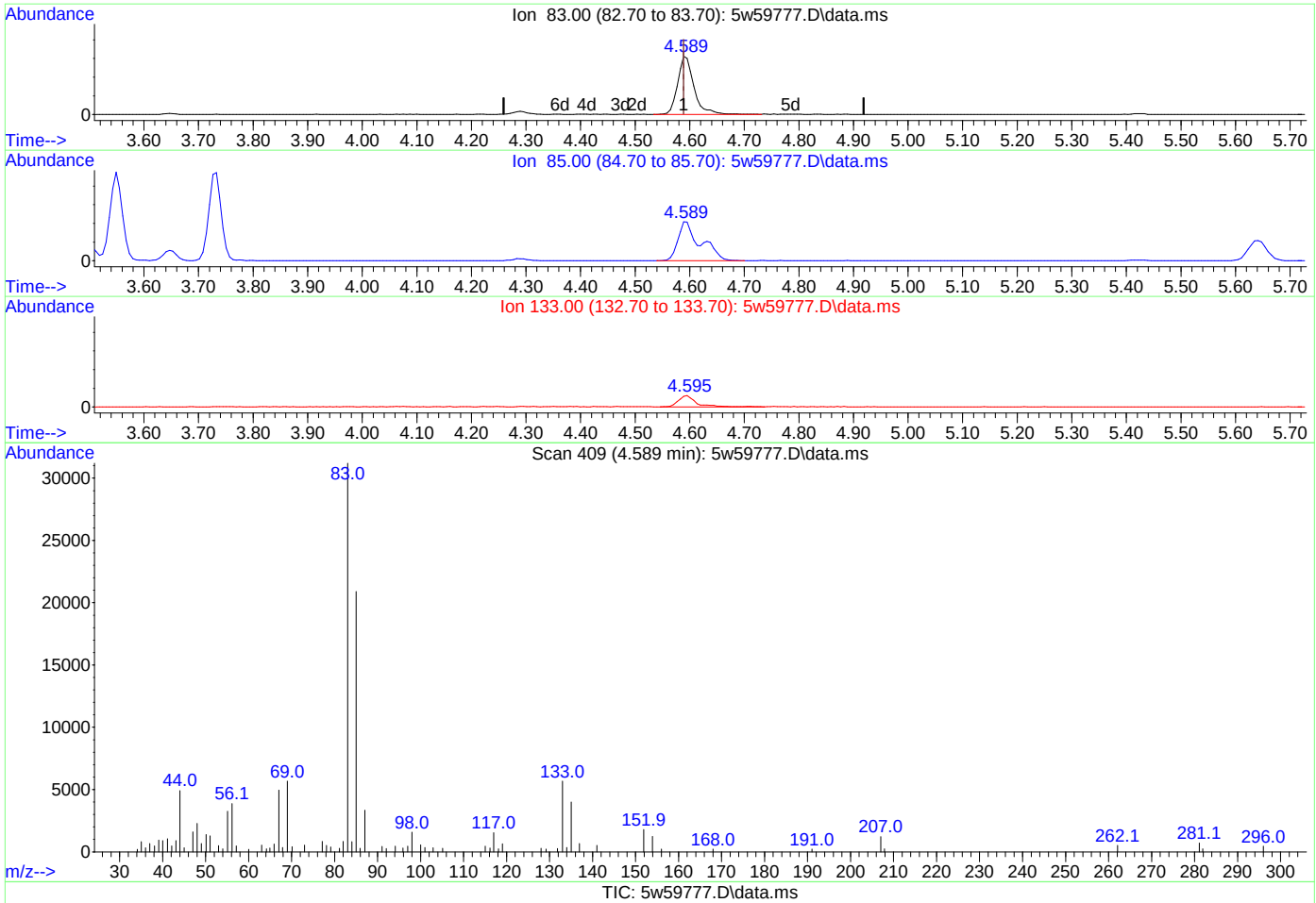
response 7542

Ion	Exp%	Act%
56.10	100	100
55.10	66.60	78.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV

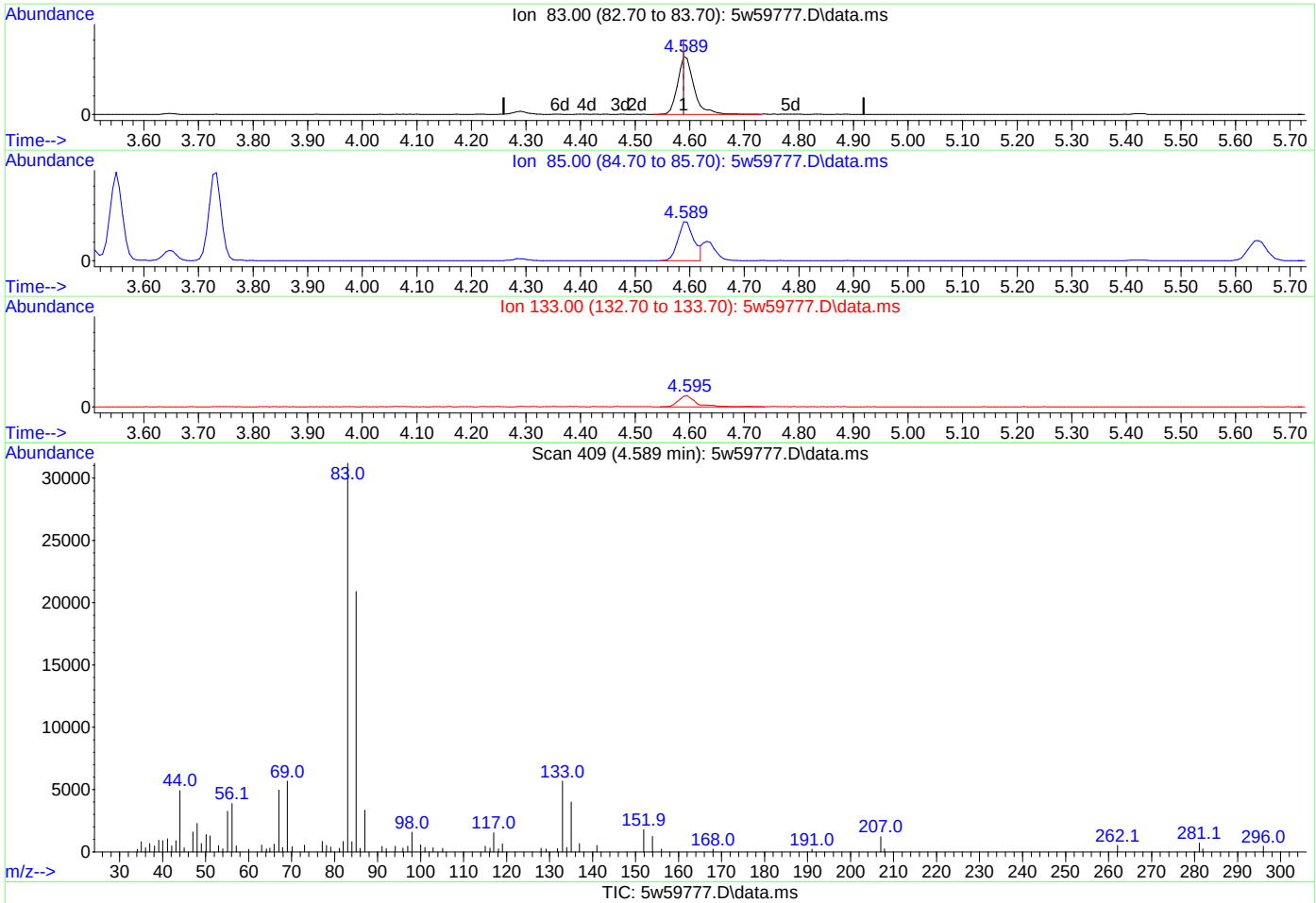
response 65470

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	91.44
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV m

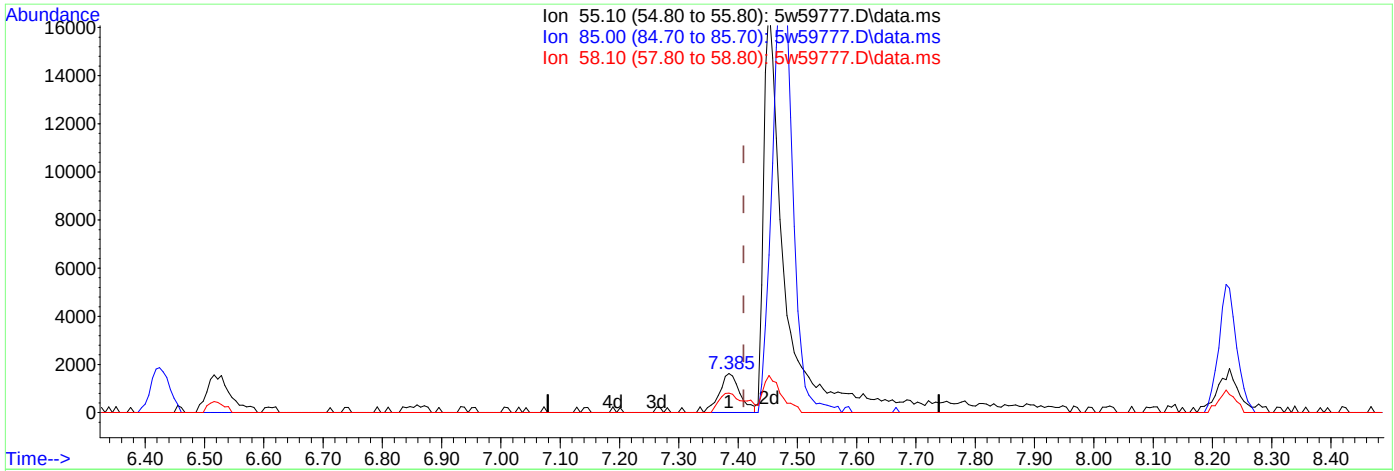
response 65470

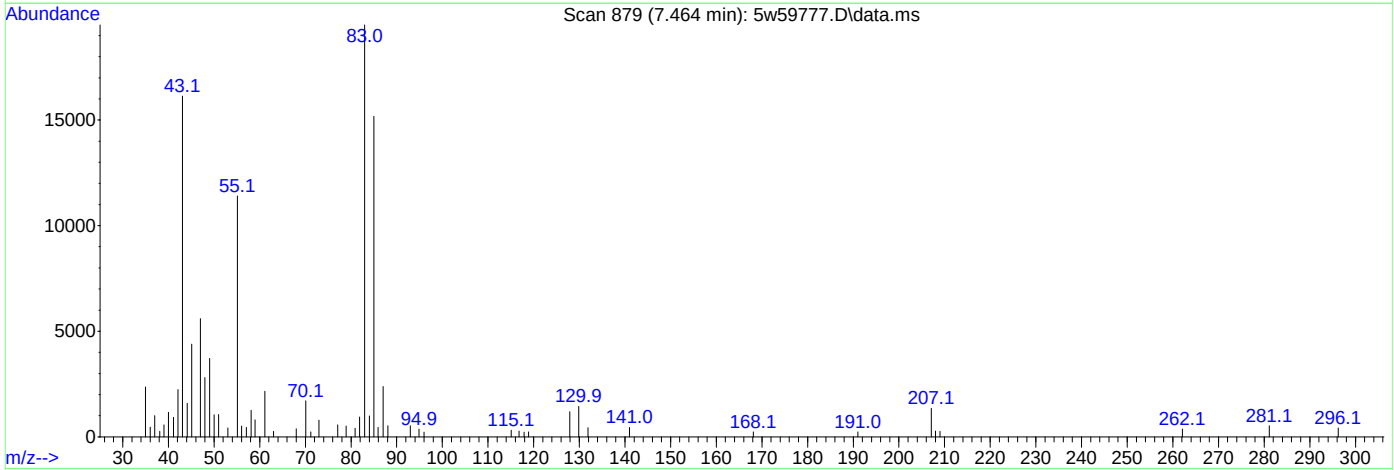
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.82
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.03PPBV

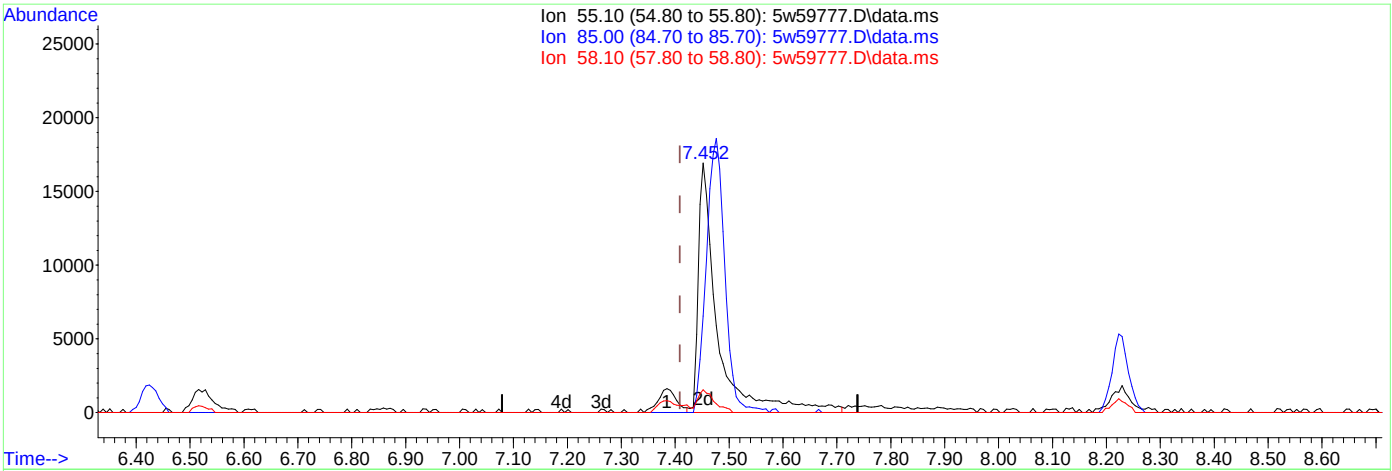
response 4031

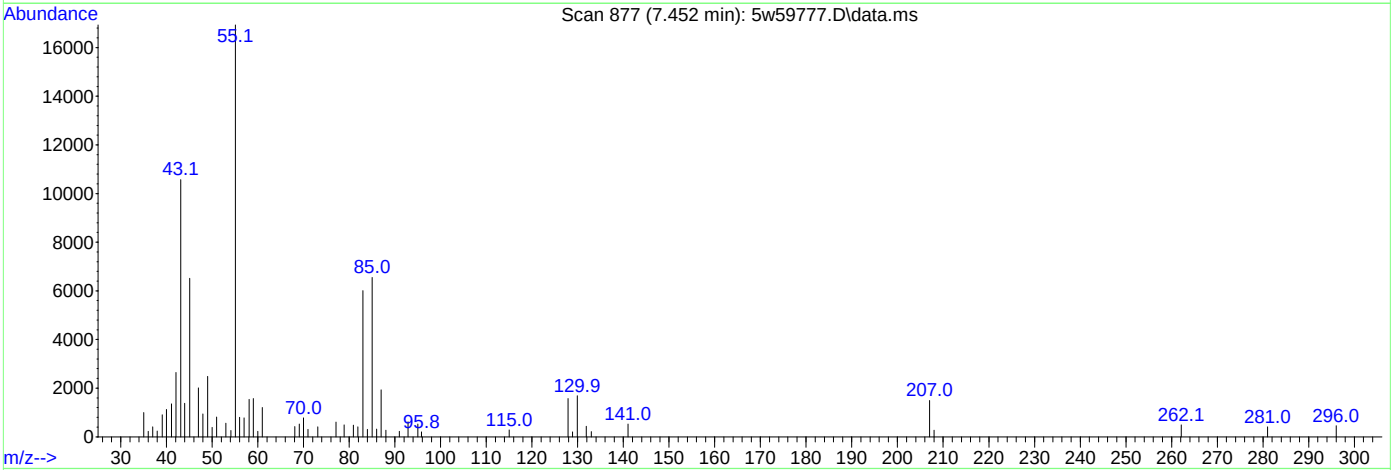
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	63.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.452min (+0.043) 0.30PPBV m

response 42153

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	6.03#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	462457	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2061895	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1060612	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	463168	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1407517	10.67	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.70%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	208779	4.00	PPBV	100
3) FREON 152A	3.445	65	155544	4.45	PPBV	99
4) CHLORODIFLUOROMETHANE	3.482	67	78206	4.97	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	379587	5.00	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	728724	4.91	PPBV	99
7) PROPYLENE	3.500	41	173008	4.61	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	566971	4.38	PPBV	99
9) FREON 114	3.733	85	711067	5.56	PPBV	99
10) CHLOROMETHANE	3.665	52	72544	4.72	PPBV	94
11) VINYL CHLORIDE	3.818	62	241017	4.89	PPBV	100
12) 1,3-BUTADIENE	3.916	54	147915	4.60	PPBV	99
13) n-BUTANE	3.947	43	235159	4.12	PPBV	98
14) BROMOMETHANE	4.106	94	254496	5.13	PPBV	99
15) CHLOROETHANE	4.228	64	109032	4.83	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	519301	4.56	PPBV	100
17) ACETONITRILE	4.485	41	129687	3.95	PPBV	100
18) ACROLEIN	4.577	56	83602	4.77	PPBV	95
19) FREON 123	4.595	83	601219m	5.20	PPBV	
20) FREON 123A	4.638	117	365750	5.13	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.797	101	638121	4.08	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	477900	4.35	PPBV	98
23) ACETONE	4.681	58	90961	4.50	PPBV	95
24) PENTANE	5.079	42	223509	3.74	PPBV	99
25) IODOMETHANE	5.256	142	791555	5.20	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	251542	4.66	PPBV	99
27) CARBON DISULFIDE	5.672	76	690855	4.87	PPBV	100
28) ETHANOL	4.320	45	86798	4.05	PPBV	100
29) BROMOETHENE	4.485	106	258283	5.39	PPBV	100
30) ACRYLONITRILE	5.048	52	155799	4.59	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	220204	4.55	PPBV	99
32) 3-CHLOROPROPENE	5.525	76	110268	4.99	PPBV	99
33) FREON 113	5.641	151	441351	4.66	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	257488	4.68	PPBV	97
35) TERTIARY BUTYL ALCOHOL	5.384	59	498869	4.44	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.486	73	676684	5.04	PPBV	100
37) TETRAHYDROFURAN	7.868	72	99619	5.53	PPBV	100
38) HEXANE	7.385	57	379941	5.02	PPBV	99
39) VINYL ACETATE	6.571	86	40455	4.63	PPBV	96
40) 1,1-DICHLOROETHANE	6.424	63	482232	4.85	PPBV	99
41) METHYL ETHYL KETONE	6.804	72	108805	5.80	PPBV	98
42) cis-1,2-DICHLOROETHYLENE	7.201	96	269410	4.74	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	116383	5.65	PPBV	97
44) ETHYL ACETATE	7.428	61	87258m	5.60	PPBV	
45) METHYL ACRYLATE	7.409	55	471994	5.35	PPBV	99
46) CHLOROFORM	7.477	83	570969	4.95	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	444023	5.08	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	592452	4.75	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	658939	4.82	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	401494	4.97	PPBV		100
52)	BENZENE	8.853	78	741517	5.39	PPBV		100
53)	CYCLOHEXANE	9.110	84	297316	5.48	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.349	71	144492	5.25	PPBV		97
55)	TRICHLOROETHYLENE	9.887	95	369372	5.01	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	300591	5.12	PPBV		100
57)	DIBROMOMETHANE	9.630	174	391164	4.83	PPBV		99
58)	ETHYL ACRYLATE	9.685	55	582502	5.68	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	653402	5.05	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.912	57	1206122	5.26	PPBV		100
61)	1,4-DIOXANE	9.912	88	168473	5.89	PPBV	#	8
62)	HEPTANE	10.187	43	406924	4.93	PPBV		99
63)	METHYL METHACRYLATE	10.113	69	247000	5.84	PPBV		97
64)	METHYL ISOBUTYL KETONE	10.799	58	240795	5.60	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	10.750	75	494703	5.47	PPBV		86
66)	TOLUENE	11.722	92	547474	5.55	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	446082m	5.43	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	434584	5.29	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	301561	5.53	PPBV		99
71)	2-HEXANONE	12.022	58	344921	6.43	PPBV		99
72)	ETHYL METHACRYLATE	12.028	69	445397	6.46	PPBV		97
73)	TETRACHLOROETHYLENE	12.872	164	427336	5.33	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	728217	5.41	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	595110	5.98	PPBV		100
76)	OCTANE	12.744	43	576898	5.29	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	463451	5.26	PPBV		99
78)	CHLOROBENZENE	13.582	112	750075	5.17	PPBV		98
79)	ETHYLBENZENE	13.986	91	1198151	5.80	PPBV		100
80)	m,p-XYLENE	14.182	106	943241	11.83	PPBV		99
81)	o-XYLENE	14.677	106	456348	6.21	PPBV		100
82)	STYRENE	14.573	104	711140	6.37	PPBV		100
83)	NONANE	14.934	43	586796	5.44	PPBV		99
84)	BROMOFORM	14.249	173	765790	5.54	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	804240	6.16	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	563086	5.21	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	1351649	5.60	PPBV		100
89)	BROMOBENZENE	15.375	77	663458	5.25	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	351599	5.42	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	357322	5.54	PPBV		99
92)	4-ETHYLTOLUENE	15.962	105	1362882	6.29	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	1159491	5.77	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	573224	5.89	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	250823	6.02	PPBV		96
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	1191915	6.18	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	871935	5.56	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	1137176	6.44	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	878264	5.40	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	309649	5.79	PPBV		97
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	1209627	5.87	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	367882	6.01	PPBV		96
103)	o-DICHLOROBENZENE	16.977	146	831952	5.25	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	353476	6.27	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	597723	5.71	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	827665	5.13	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	807736	7.16	PPBV		100
108)	NAPHTHALENE	18.660	128	1912544	7.30	PPBV		99
110)	TVHC as equiv Pentane	5.072	TIC	1469674	4.29	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

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

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

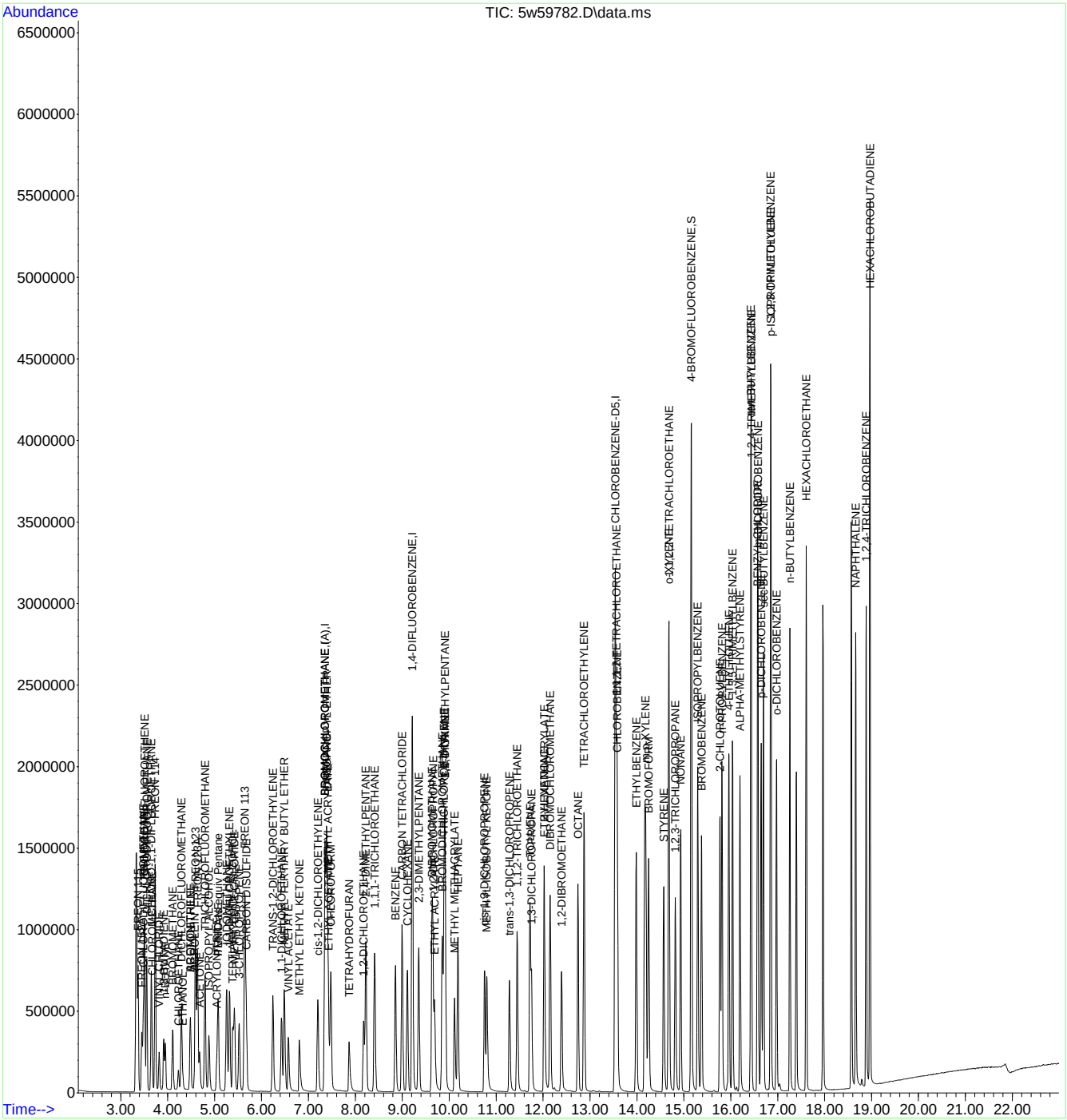
7.7.5

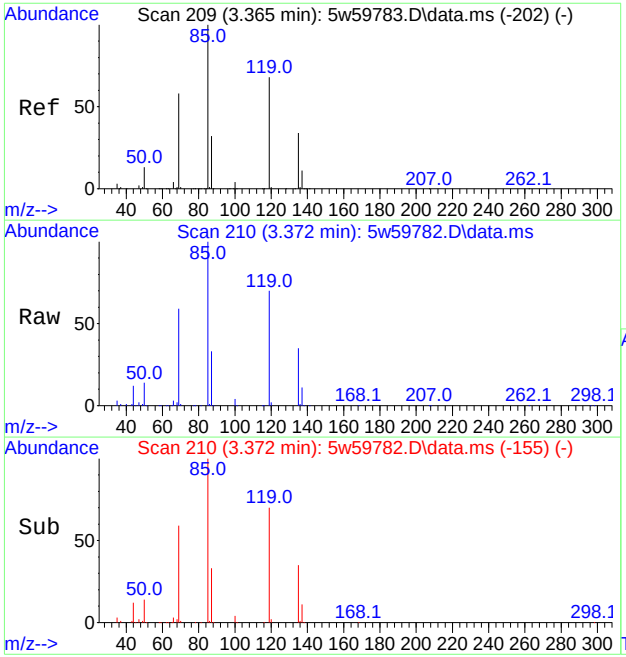
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

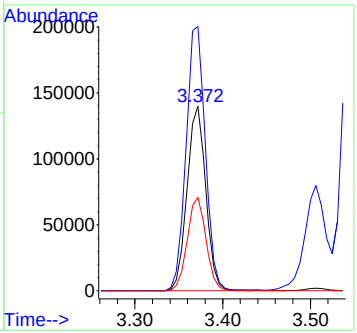


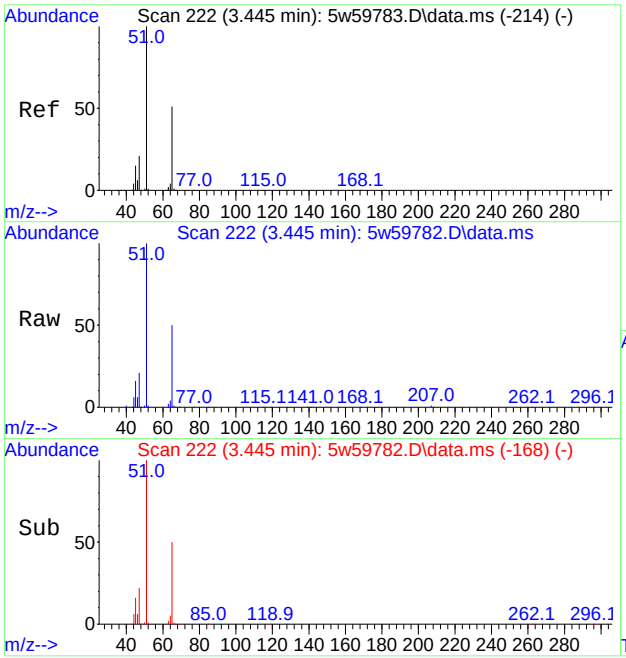


#2
FREON 115
Concen: 4.00 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:119 Resp: 208779

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.6	20.6	80.6

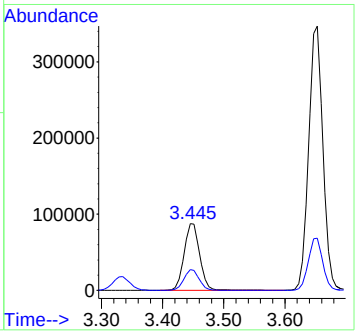


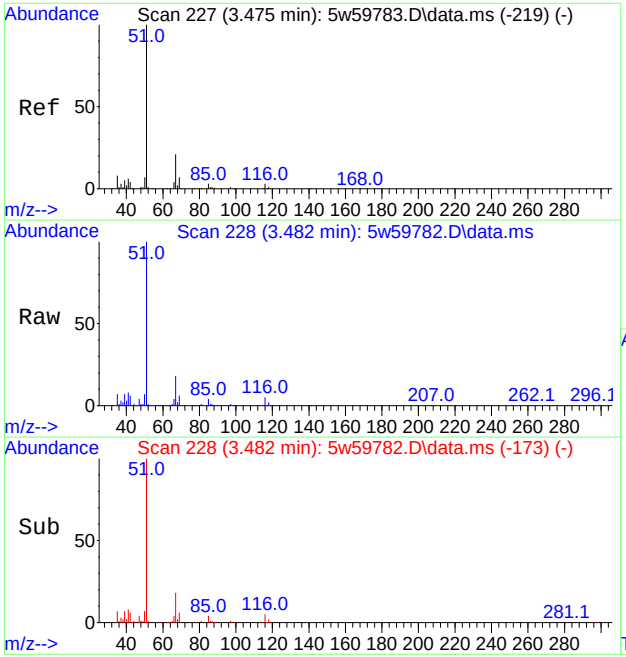


#3
FREON 152A
Concen: 4.45 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 155544

Ion	Ratio	Lower	Upper
65	100		
45	30.4	0.0	60.0

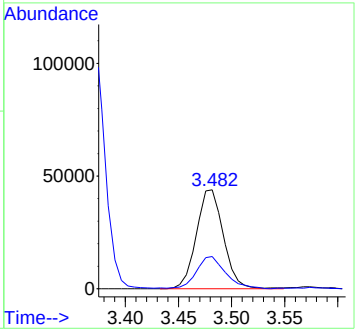


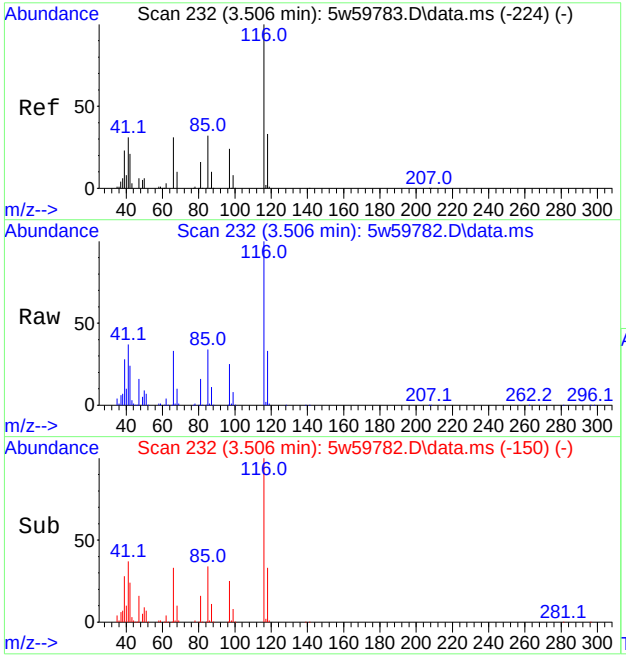


#4
CHLORODIFLUOROMETHANE
Concen: 4.97 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 78206

Ion	Ratio	Lower	Upper
67	100		
69	32.7	1.0	61.0

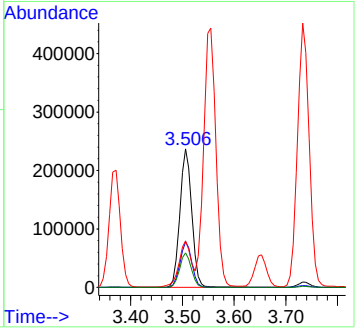


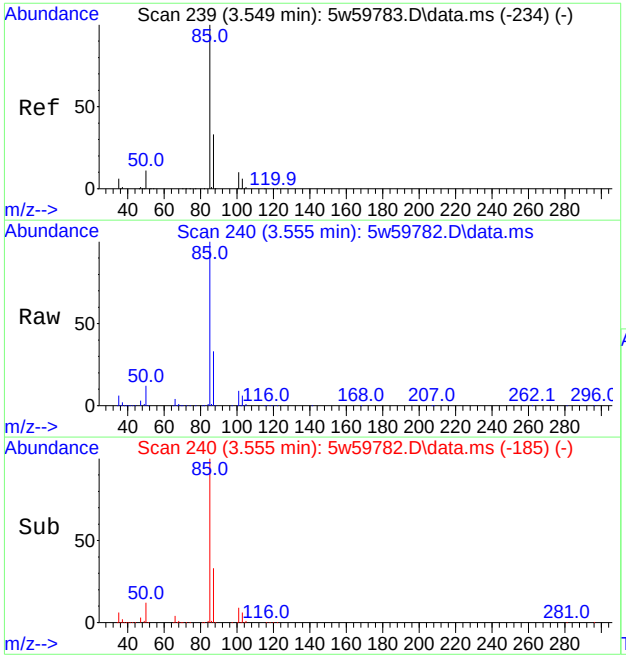


#5
CHLOROTRIFLUOROETHENE
Concen: 5.00 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:116 Resp: 379587

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.9	42.5
85	35.3	23.7	44.1
97	24.4	17.0	31.6

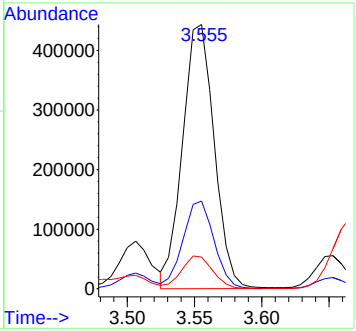


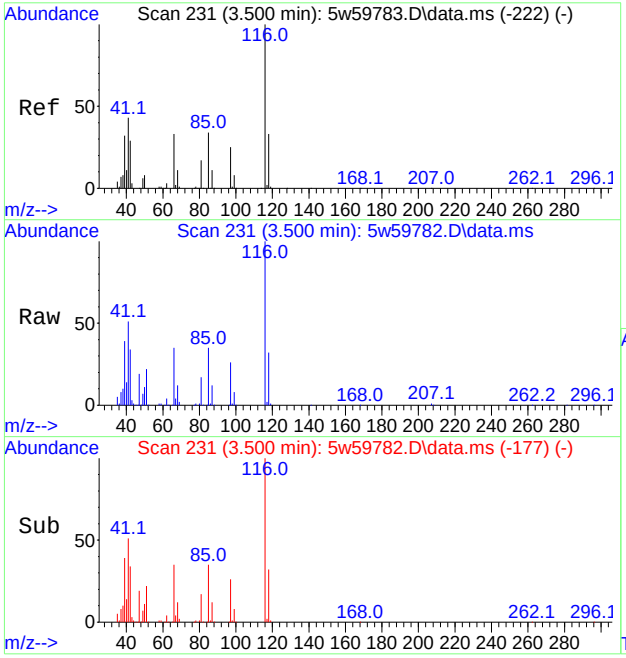


#6
DICHLORODIFLUOROMETHANE
Concen: 4.91 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 728724

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	12.3	0.0	41.7

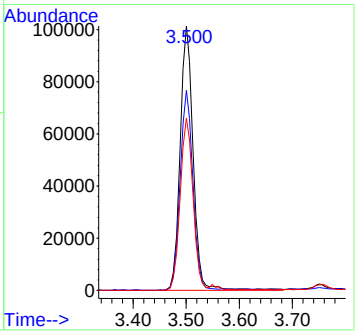


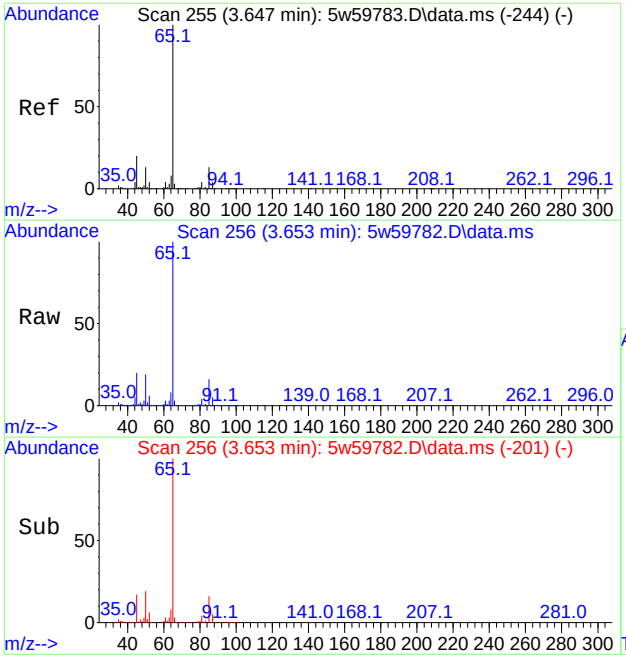


#7
PROPYLENE
Concen: 4.61 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 173008

Ion	Ratio	Lower	Upper
41	100		
39	77.1	45.1	105.1
42	63.7	36.3	96.3

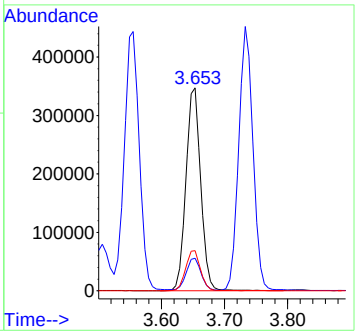


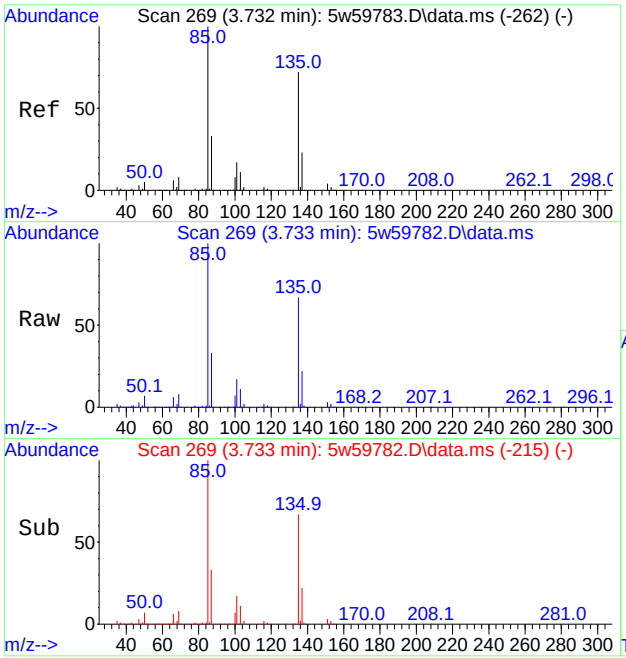


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 4.38 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 566971

Ion	Ratio	Lower	Upper
65	100		
85	16.1	11.5	21.3
45	20.3	14.0	26.0

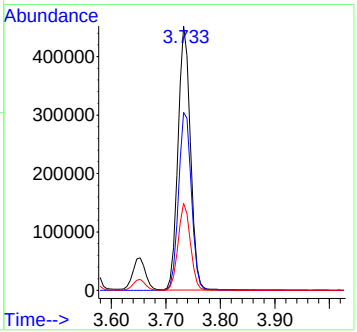


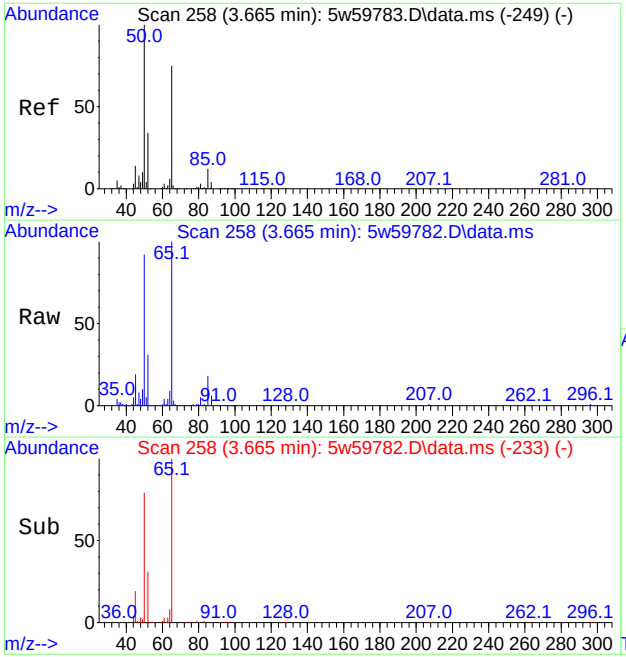


#9
FREON 114
Concen: 5.56 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 711067

Ion	Ratio	Lower	Upper
85	100		
135	69.7	40.5	100.5
87	32.8	3.0	63.0

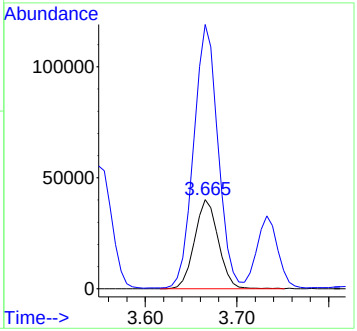


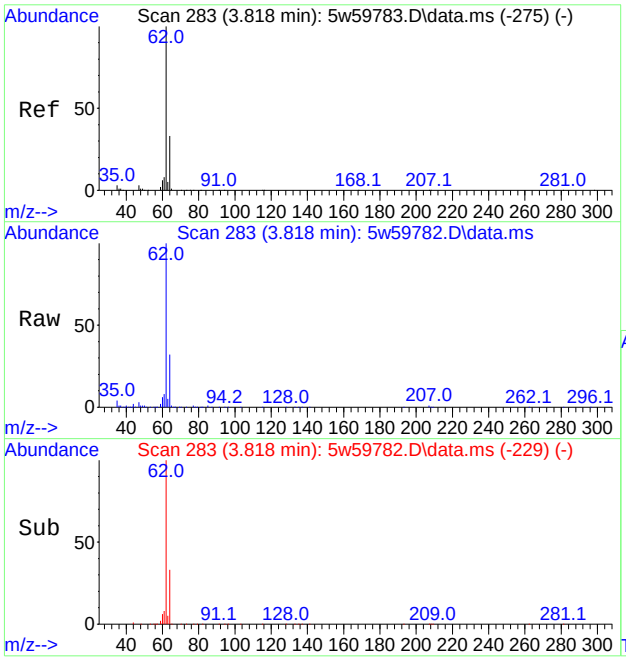


#10
CHLOROMETHANE
Concen: 4.72 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 72544

Ion	Ratio	Lower	Upper
52	100		
50	285.9	267.9	327.9

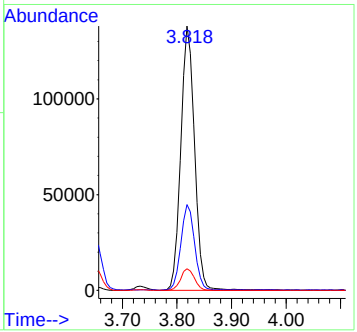




#11
VINYL CHLORIDE
Concen: 4.89 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

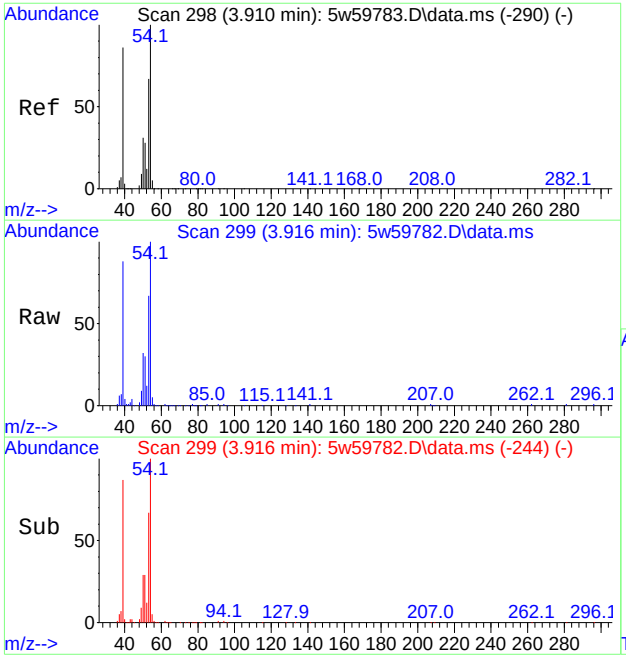
Tgt Ion: 62 Resp: 241017

Ion	Ratio	Lower	Upper
62	100		
64	33.5	3.6	63.6
61	8.2	0.0	38.2



7.7.5

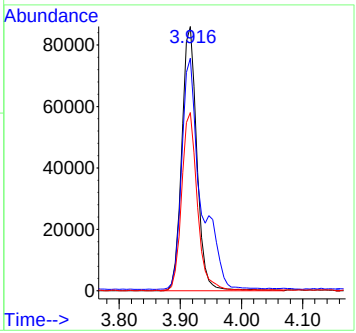
7

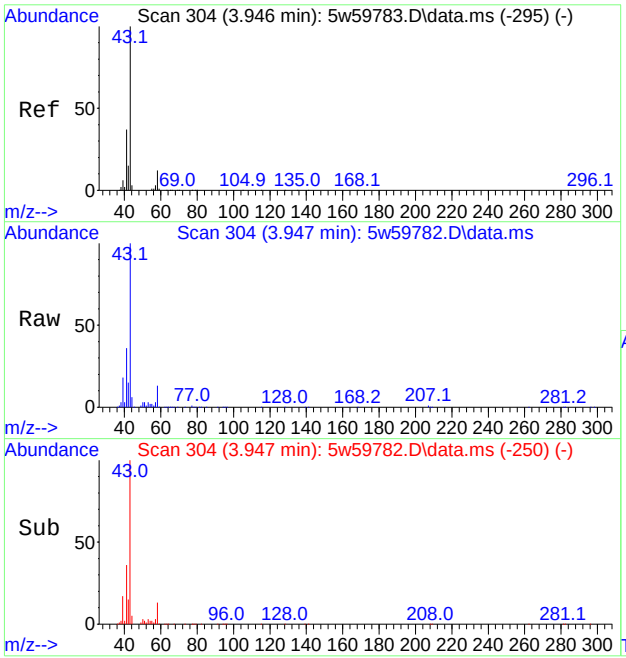


#12
1,3-BUTADIENE
Concen: 4.60 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 54 Resp: 147915

Ion	Ratio	Lower	Upper
54	100		
39	111.9	82.0	142.0
53	71.7	40.2	100.2

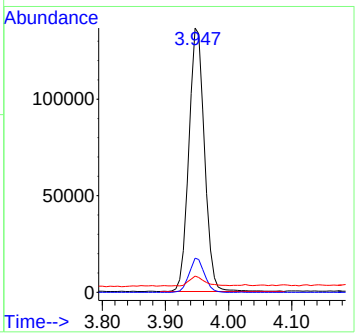


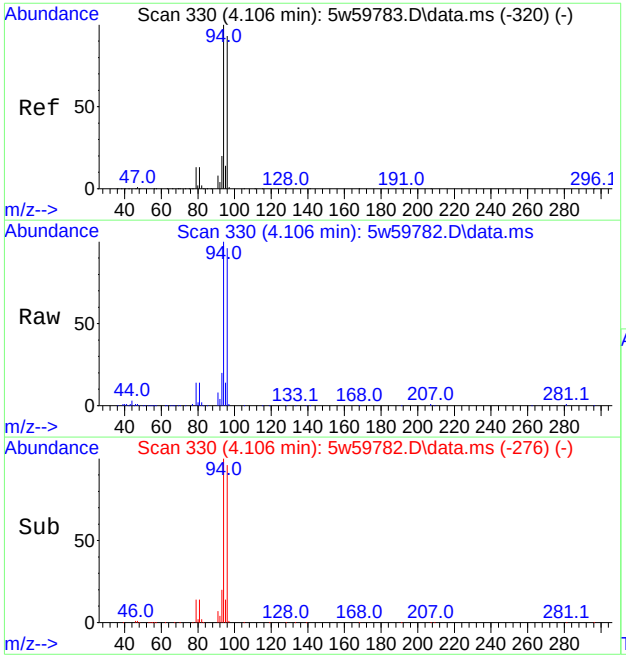


#13
n-BUTANE
Concen: 4.12 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 235159

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	6.5	0.0	34.9

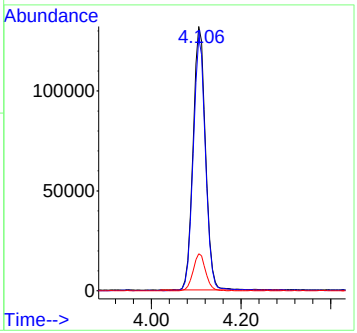


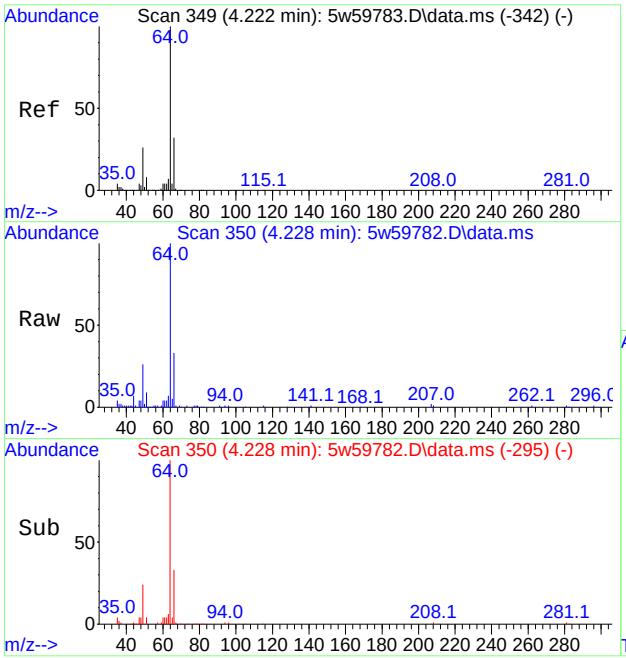


#14
BROMOMETHANE
Concen: 5.13 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 94 Resp: 254496

Ion	Ratio	Lower	Upper
94	100		
96	96.4	65.3	125.3
95	14.1	0.0	44.1

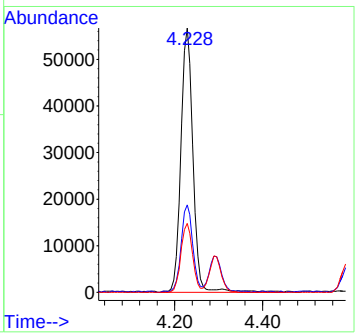


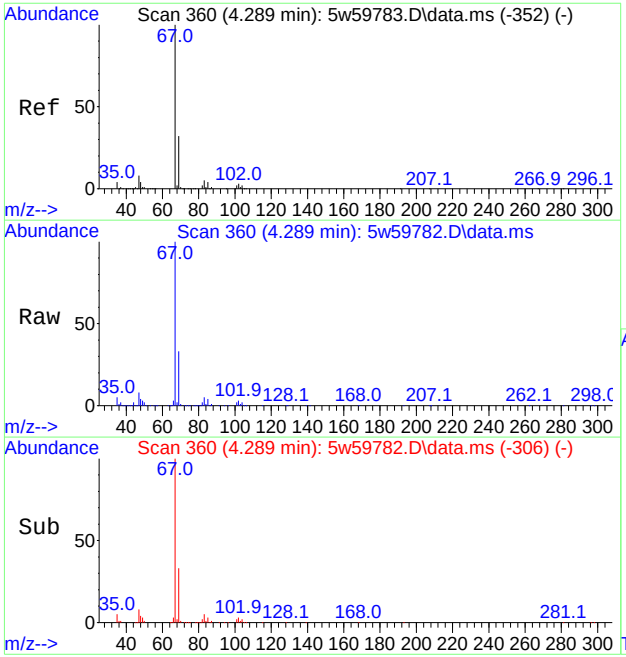


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 64 Resp: 109032

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

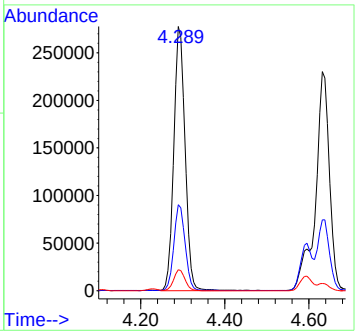


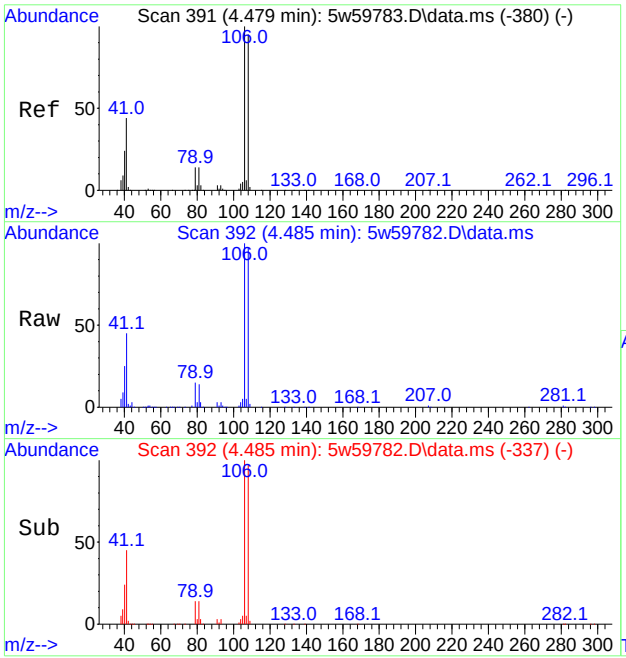


#16
DICHLOROFLUOROMETHANE
Concen: 4.56 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 519301

Ion	Ratio	Lower	Upper
67	100		
69	32.7	22.7	42.3
47	8.0	5.6	10.4

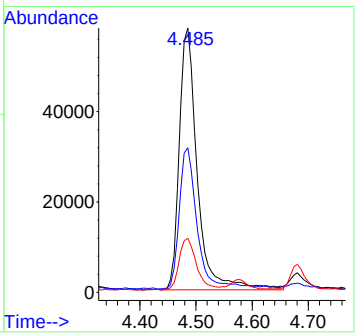


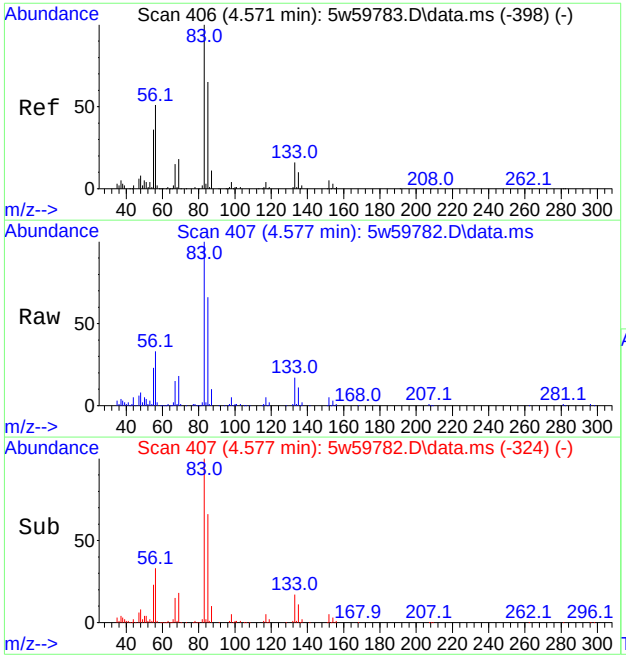


#17
ACETONITRILE
Concen: 3.95 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 129687

Ion	Ratio	Lower	Upper
41	100		
40	54.3	37.9	70.5
39	19.1	13.4	24.8

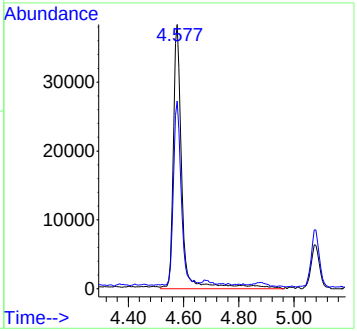


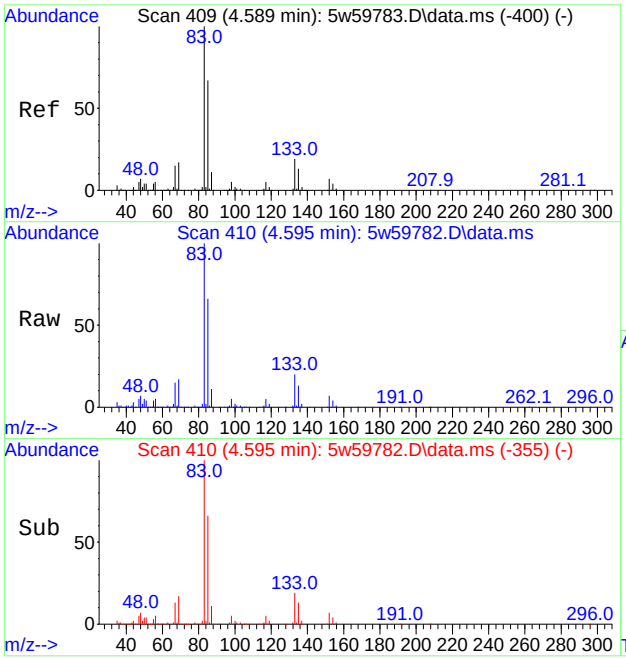


#18
ACROLEIN
Concen: 4.77 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 56 Resp: 83602

Ion	Ratio	Lower	Upper
56	100		
55	62.6	46.6	86.6

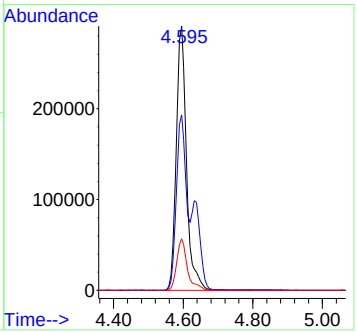


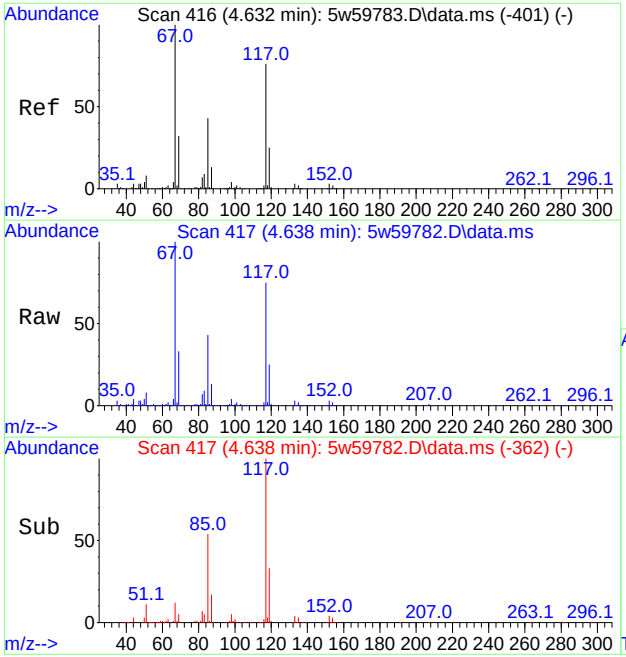


#19
FREON 123
Concen: 5.20 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 601219

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	20.5	0.0	50.7

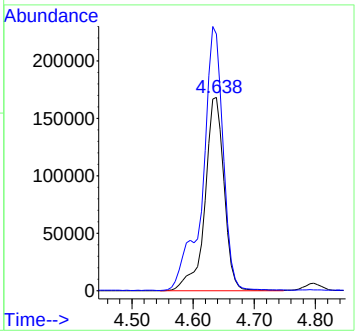


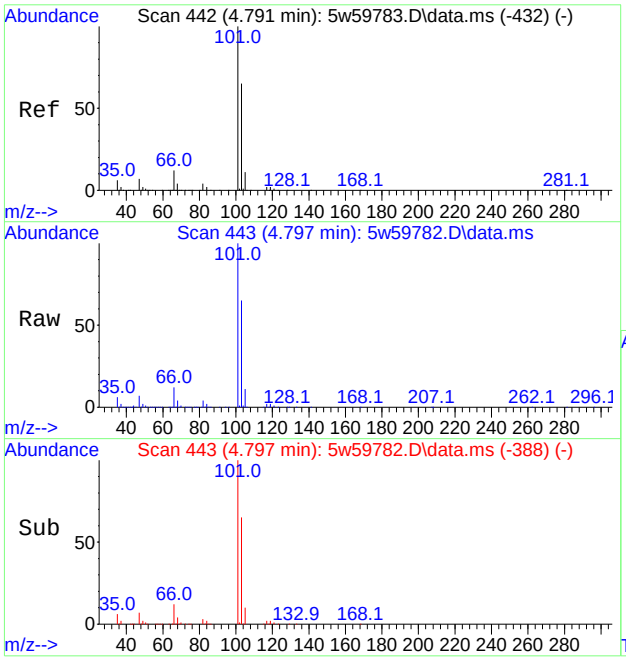


#20
FREON 123A
Concen: 5.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 365750

Ion	Ratio	Lower	Upper
117	100		
67	145.9	114.6	174.6

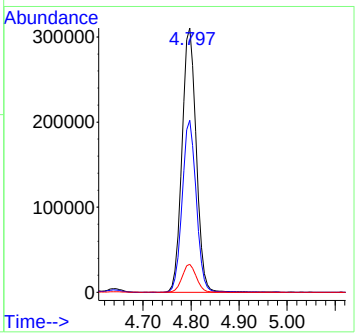


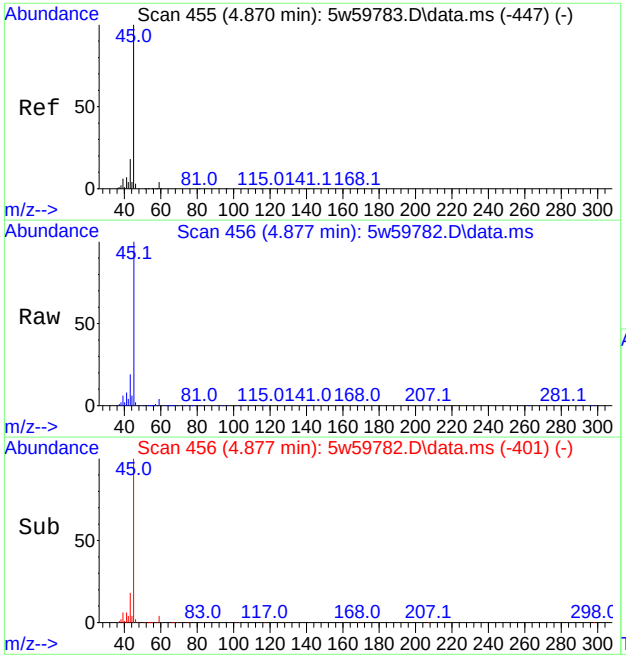


#21
TRICHLOROFLUOROMETHANE
Concen: 4.08 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:101 Resp: 638121

Ion	Ratio	Lower	Upper
101	100		
103	64.6	35.0	95.0
105	10.8	0.0	40.7

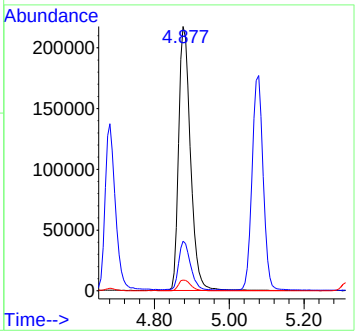


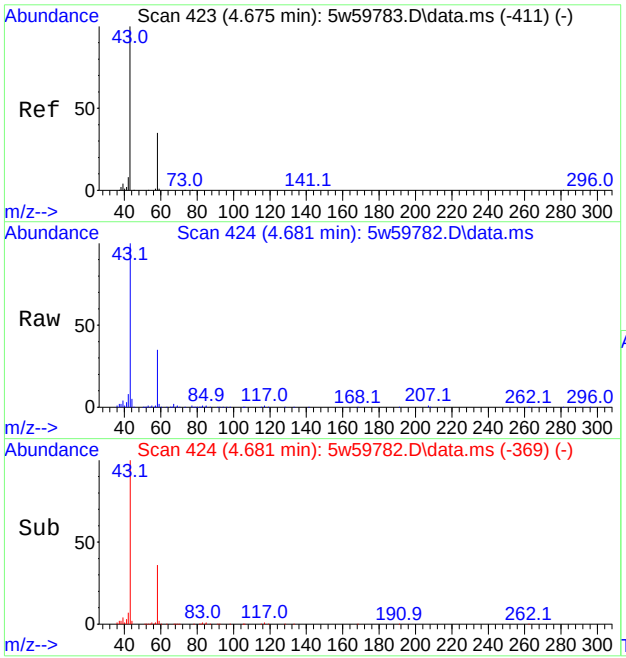


#22
ISOPROPYL ALCOHOL
Concen: 4.35 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 477900

Ion	Ratio	Lower	Upper
45	100		
43	18.8	0.0	47.8
59	4.1	0.0	34.1

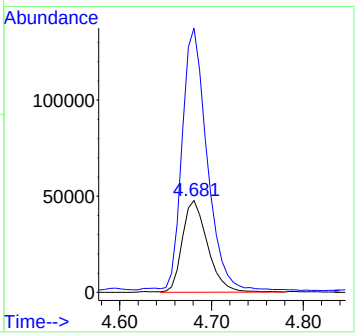


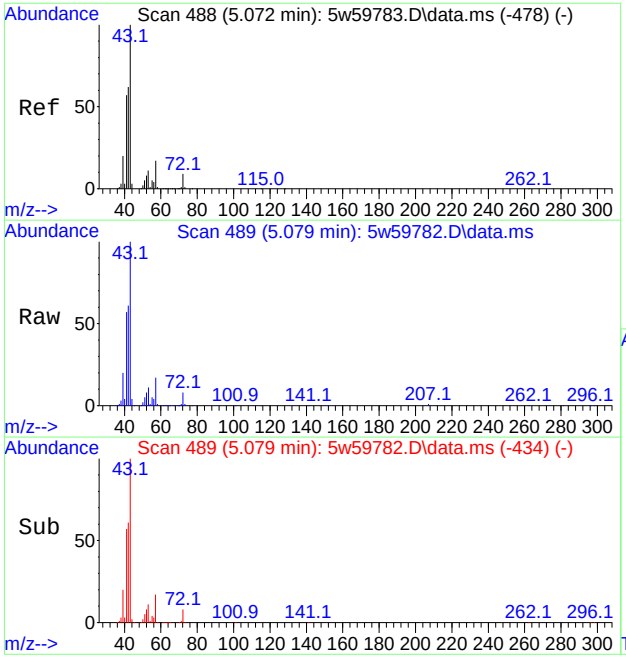


#23
ACETONE
Concen: 4.50 PPBV
RT: 4.681 min Scan# 424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 90961

Ion	Ratio	Lower	Upper
58	100		
43	290.9	252.3	312.3

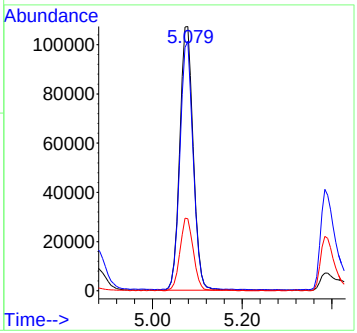


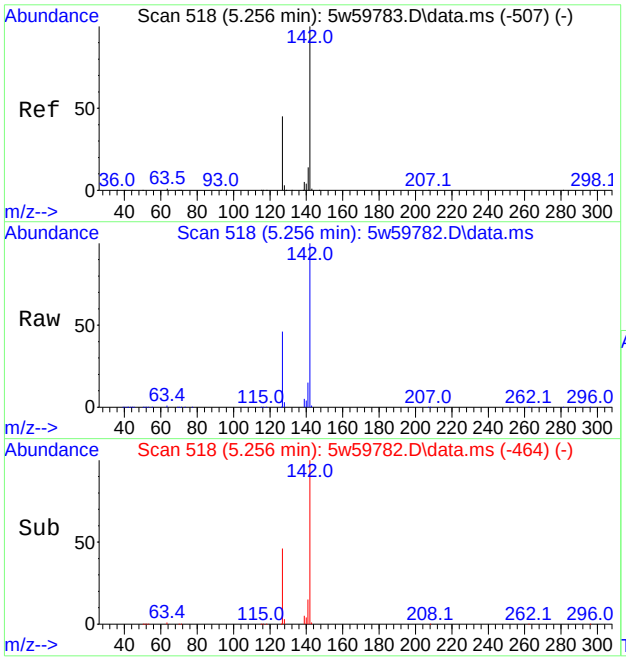


#24
PENTANE
Concen: 3.74 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 42 Resp: 223509

Ion	Ratio	Lower	Upper
42	100		
41	93.1	62.3	122.3
57	27.7	0.0	57.7

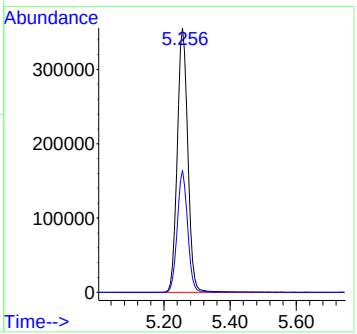


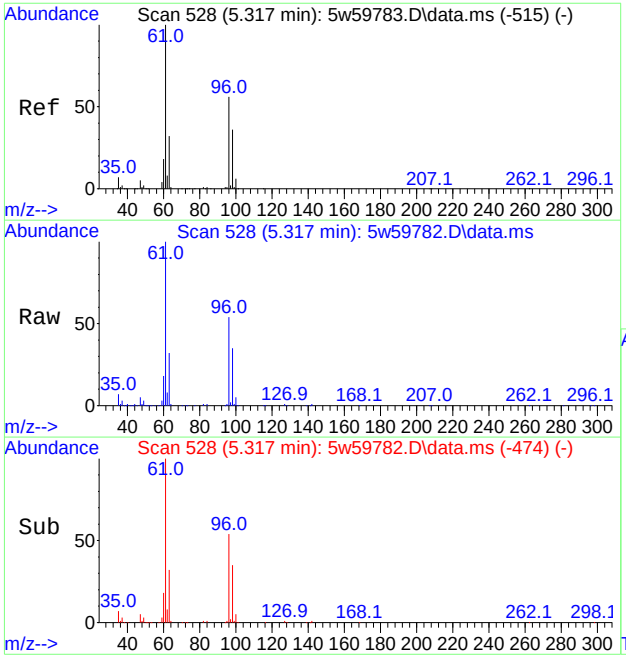


#25
IODOMETHANE
Concen: 5.20 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:142 Resp: 791555

Ion	Ratio	Lower	Upper
142	100		
127	45.5	16.0	76.0

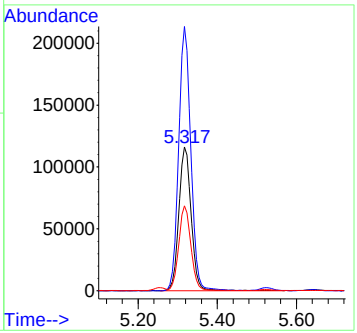


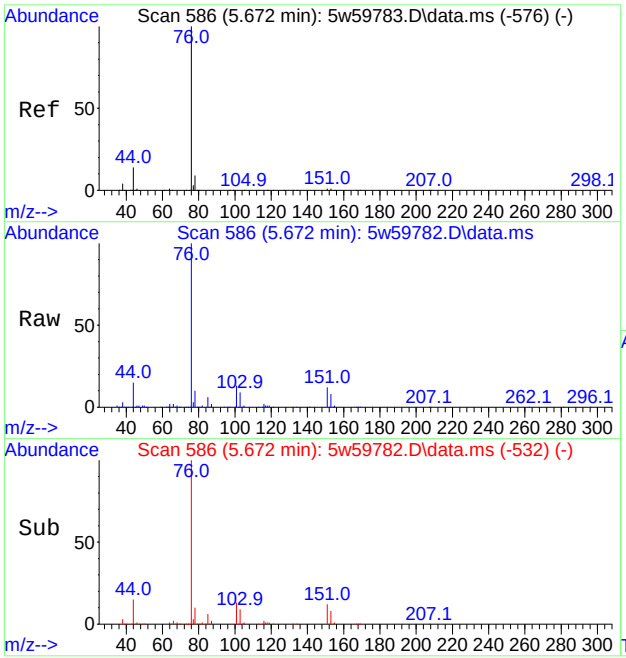


#26
1,1-DICHLOROETHYLENE
Concen: 4.66 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 251542

Ion	Ratio	Lower	Upper
96	100		
61	180.6	148.5	208.5
63	57.9	27.4	87.4

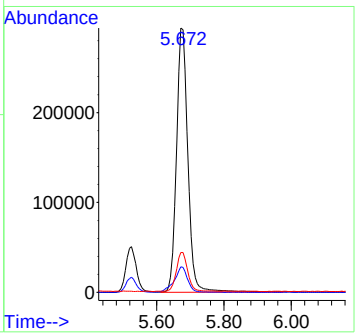


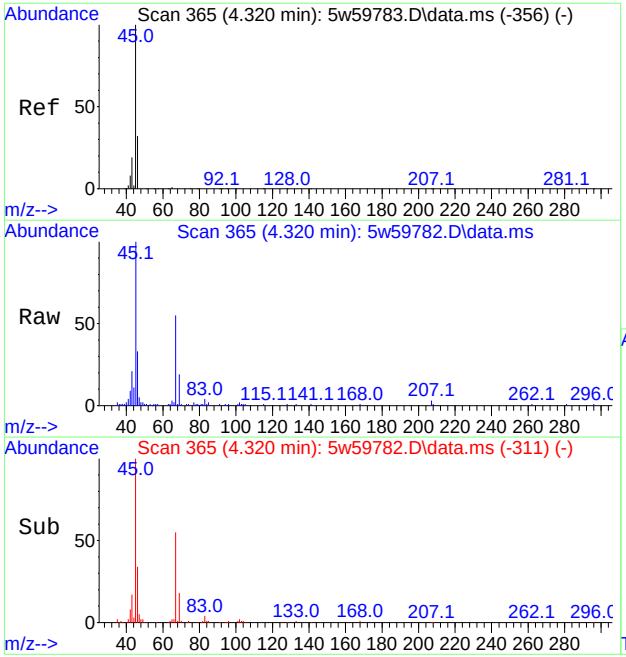


#27
CARBON DISULFIDE
Concen: 4.87 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 690855

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

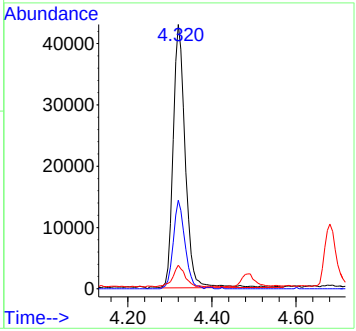


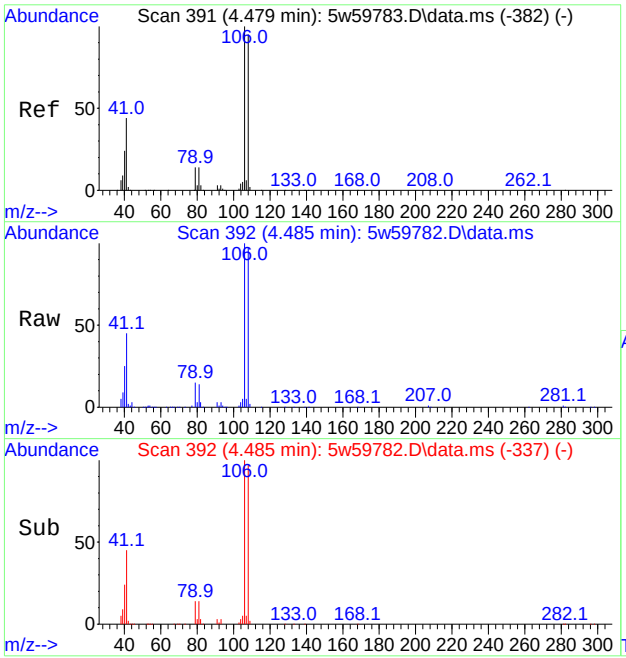


#28
ETHANOL
Concen: 4.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 86798

Ion	Ratio	Lower	Upper
45	100		
46	32.2	2.0	62.0
42	8.5	0.0	38.5

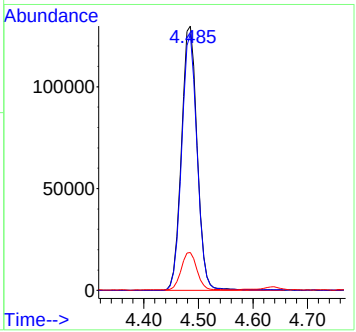


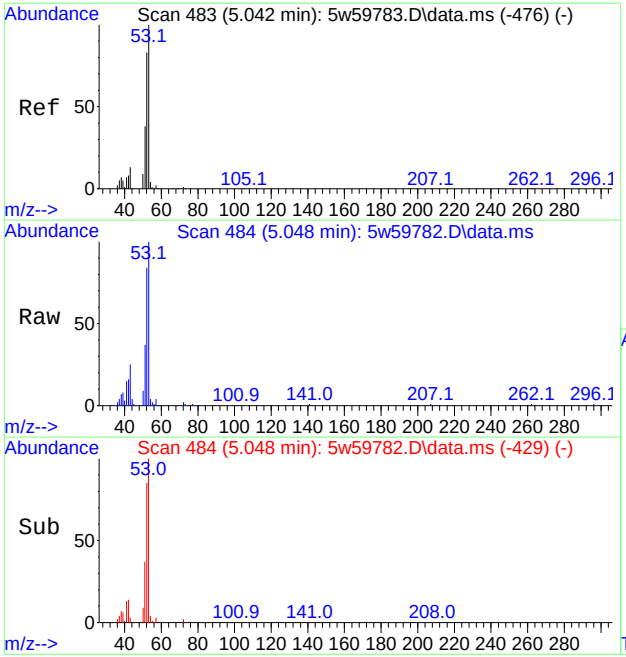


#29
BROMOETHENE
Concen: 5.39 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 258283

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	14.5	0.0	43.9

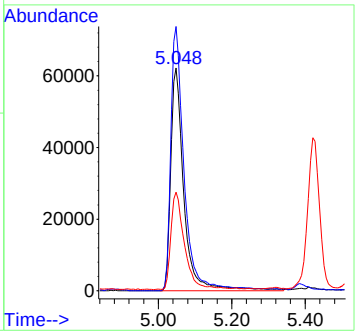


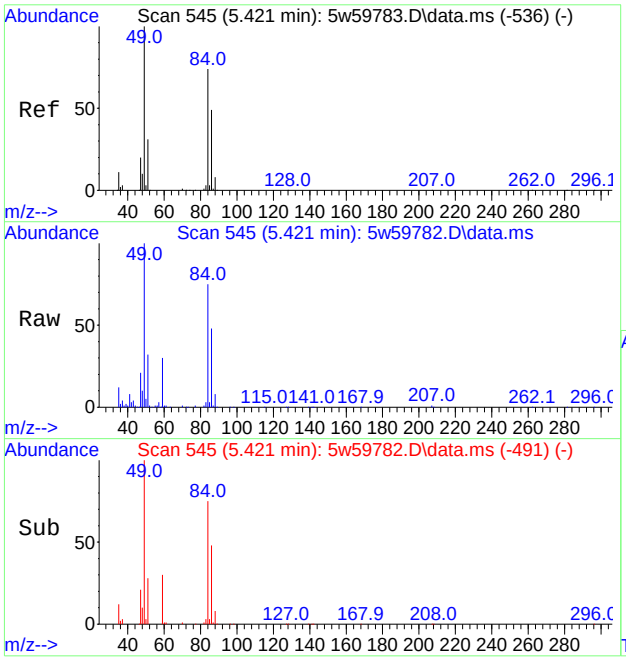


#30
ACRYLONITRILE
Concen: 4.59 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 155799

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.6	32.3	60.1

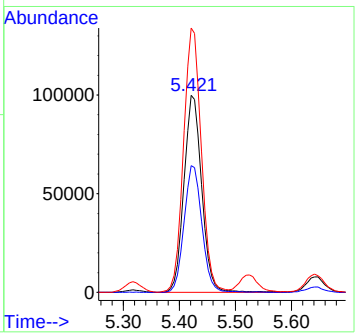


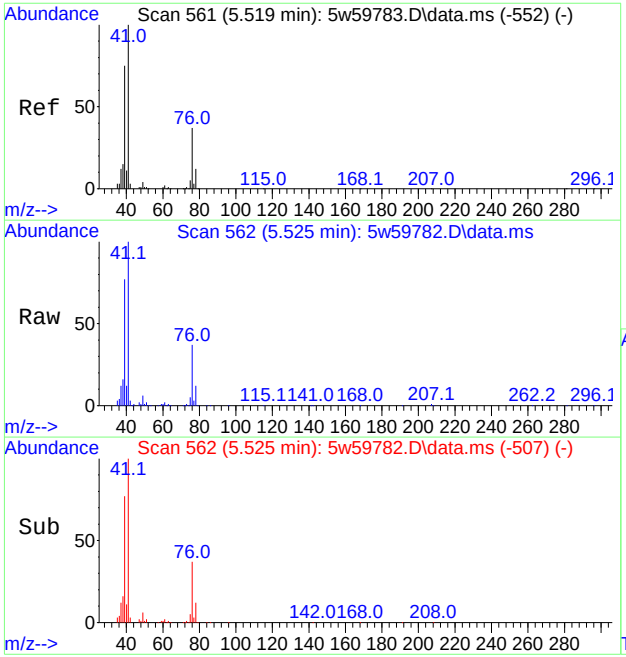


#31
METHYLENE CHLORIDE
Concen: 4.55 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 220204

Ion	Ratio	Lower	Upper
84	100		
86	64.5	35.2	95.2
49	134.2	105.3	165.3

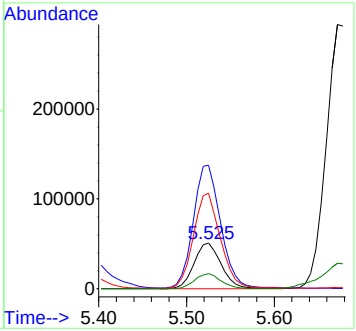


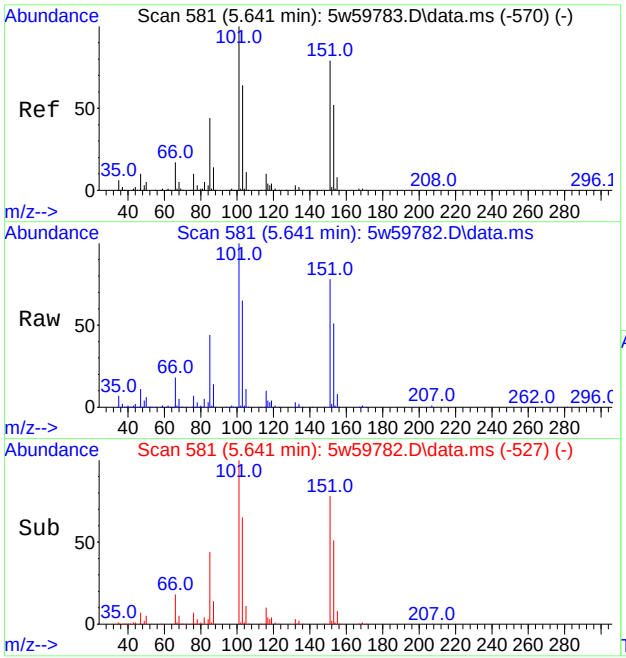


#32
3-CHLOROPROPENE
Concen: 4.99 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 110268

Ion	Ratio	Lower	Upper
76	100		
41	271.1	240.8	300.8
39	207.1	173.6	233.6
78	32.9	2.8	62.8

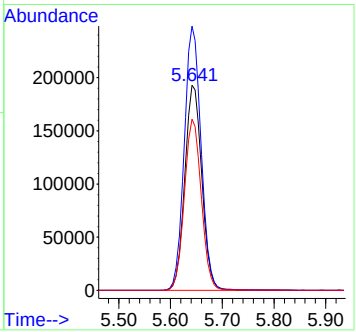


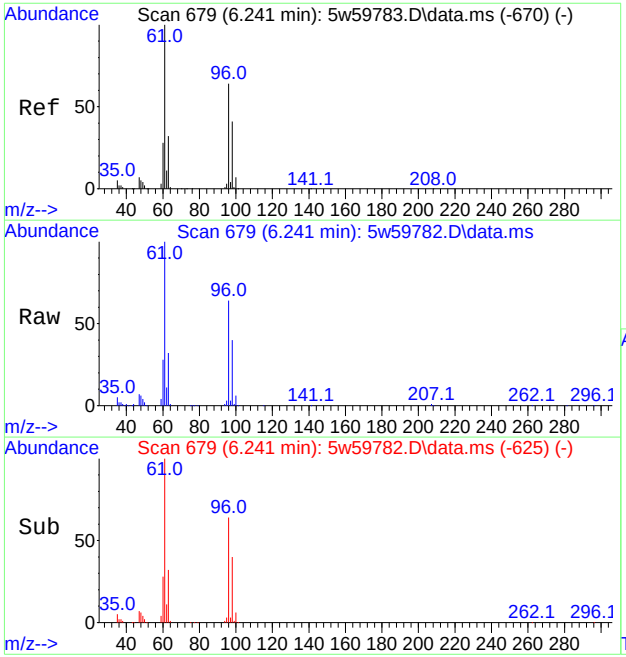


#33
FREON 113
Concen: 4.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:151 Resp: 441351

Ion	Ratio	Lower	Upper
151	100		
101	127.4	97.5	157.5
103	83.0	52.5	112.5

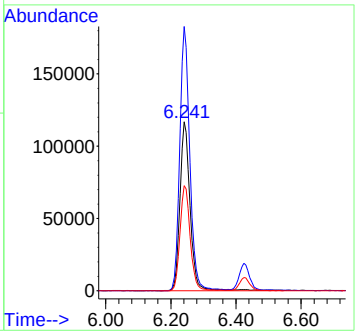


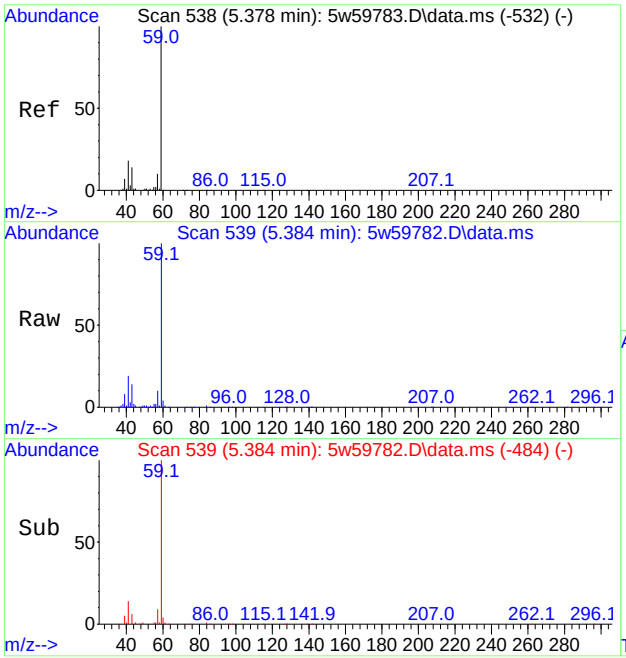


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 4.68 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 257488

Ion	Ratio	Lower	Upper
96	100		
61	152.8	126.4	186.4
98	62.3	34.1	94.1

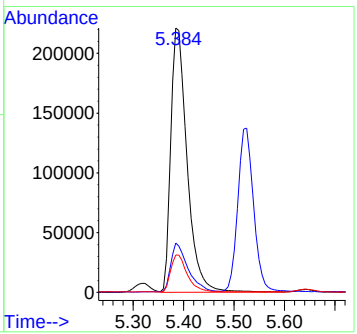


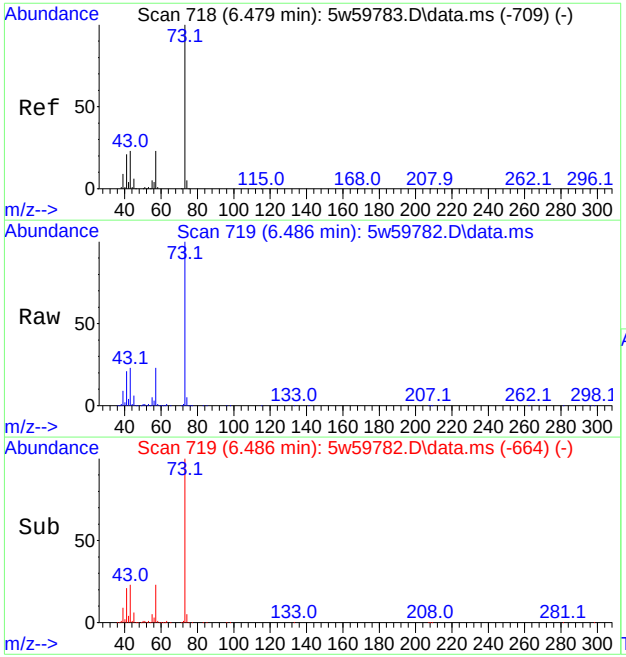


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.44 PPBV
RT: 5.384 min Scan# 539
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 498869

Ion	Ratio	Lower	Upper
59	100		
41	19.5	0.0	49.3
43	14.1	0.0	44.1

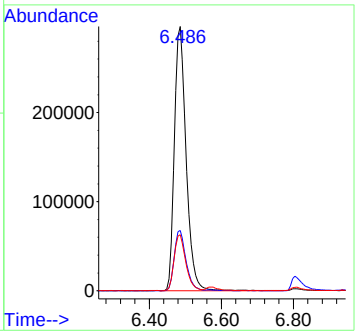


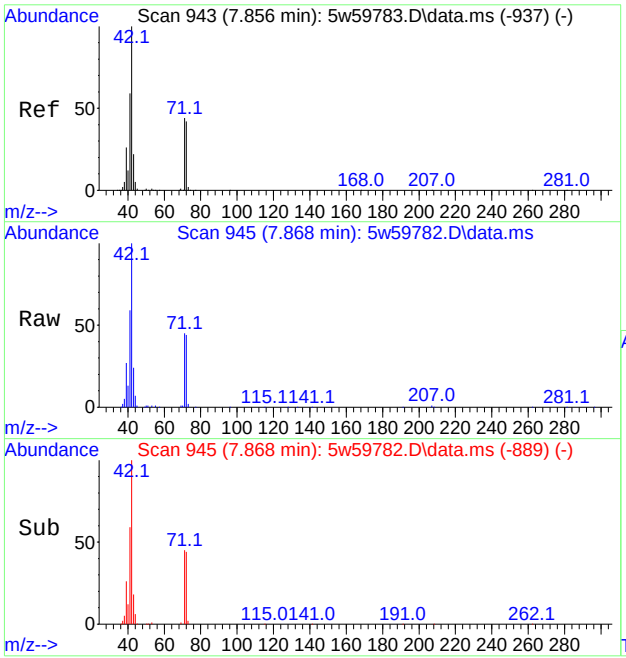


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.04 PPBV
RT: 6.486 min Scan# 719
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 73 Resp: 676684

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.9	0.0	50.6

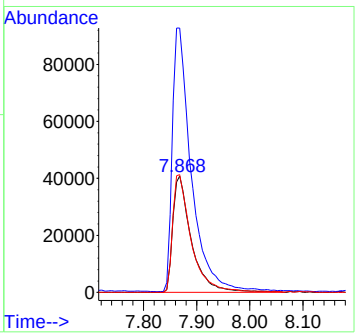


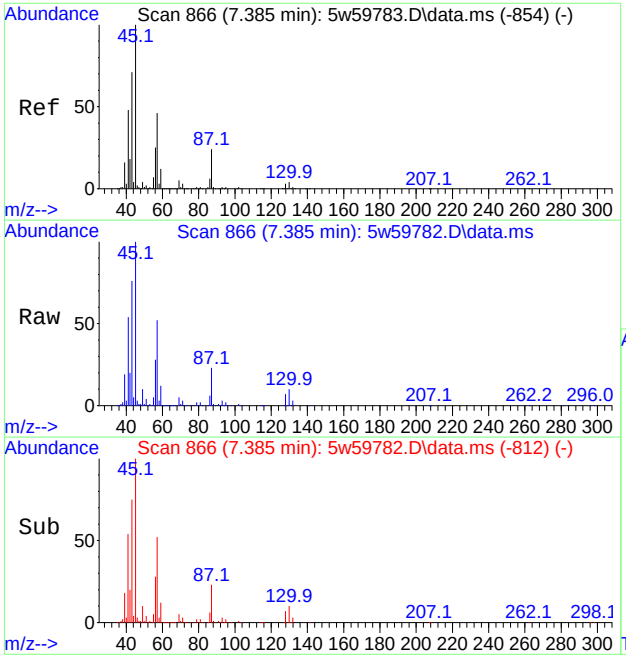


#37
TETRAHYDROFURAN
Concen: 5.53 PPBV
RT: 7.868 min Scan# 945
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 99619

Ion	Ratio	Lower	Upper
72	100		
42	231.9	202.4	262.4
71	101.4	71.1	131.1

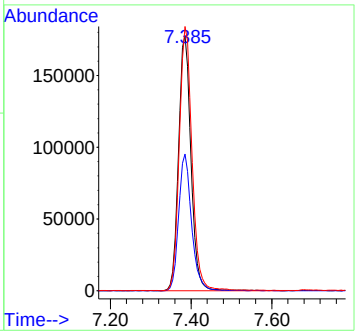


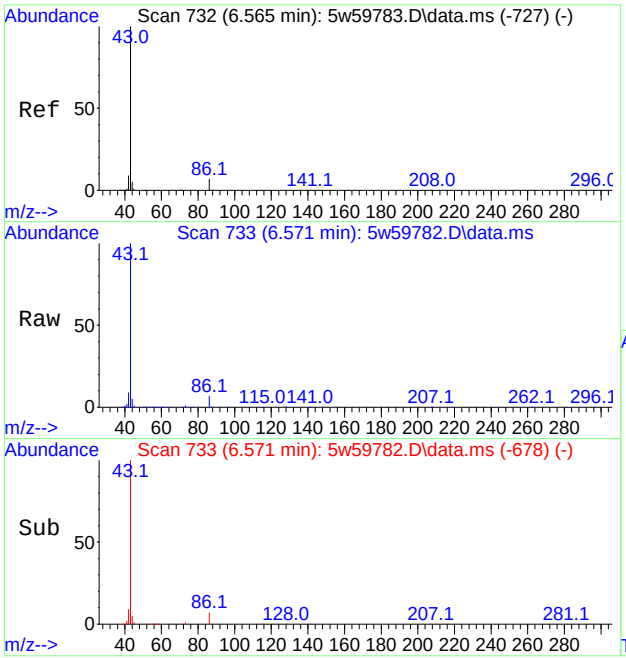


#38
HEXANE
Concen: 5.02 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 379941

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	106.7	74.7	134.7

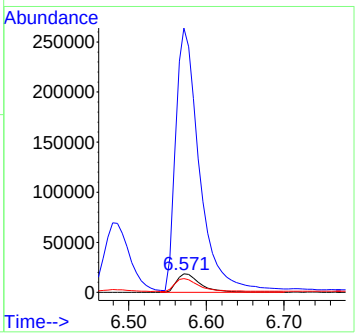


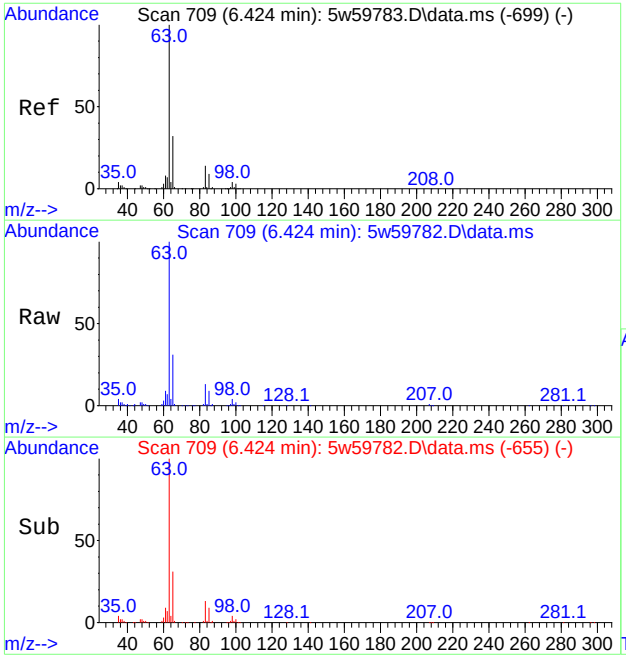


#39
VINYL ACETATE
Concen: 4.63 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 86 Resp: 40455

Ion	Ratio	Lower	Upper
86	100		
43	1388.3	1379.7	1439.7
44	68.5	36.9	96.9

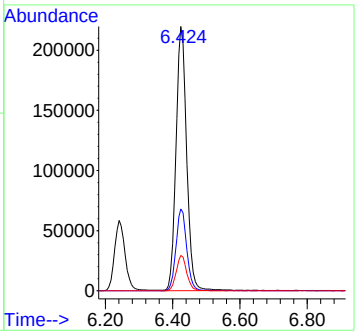


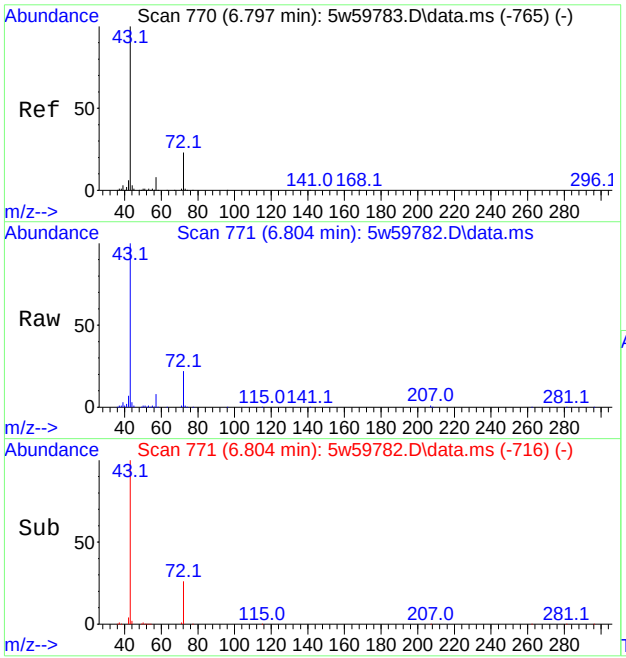


#40
1,1-DICHLOROETHANE
Concen: 4.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 482232

Ion	Ratio	Lower	Upper
63	100		
65	31.3	1.7	61.7
83	13.2	0.0	43.5

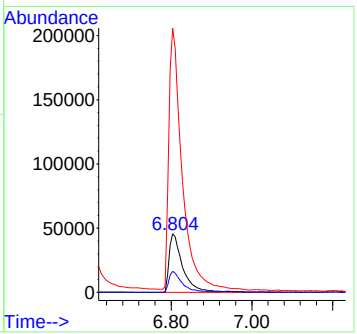


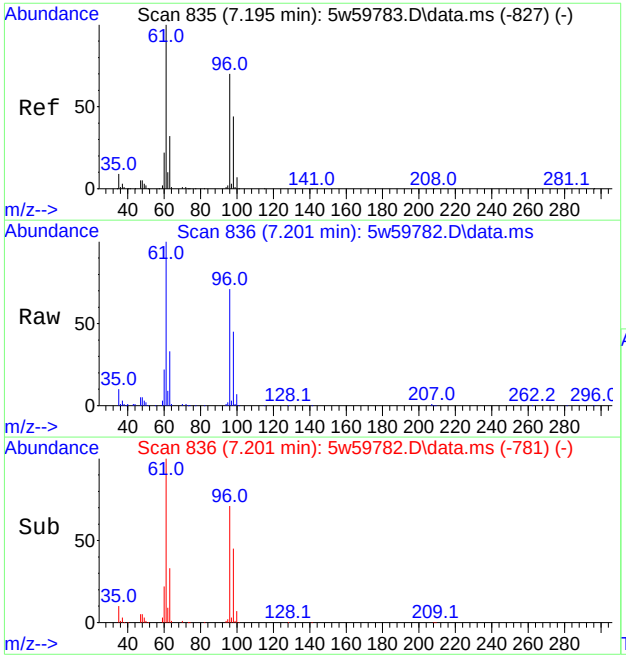


#41
METHYL ETHYL KETONE
Concen: 5.80 PPBV
RT: 6.804 min Scan# 771
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 108805

Ion	Ratio	Lower	Upper
72	100		
57	35.8	4.8	64.8
43	450.4	415.9	475.9

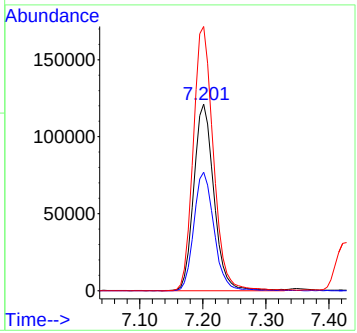


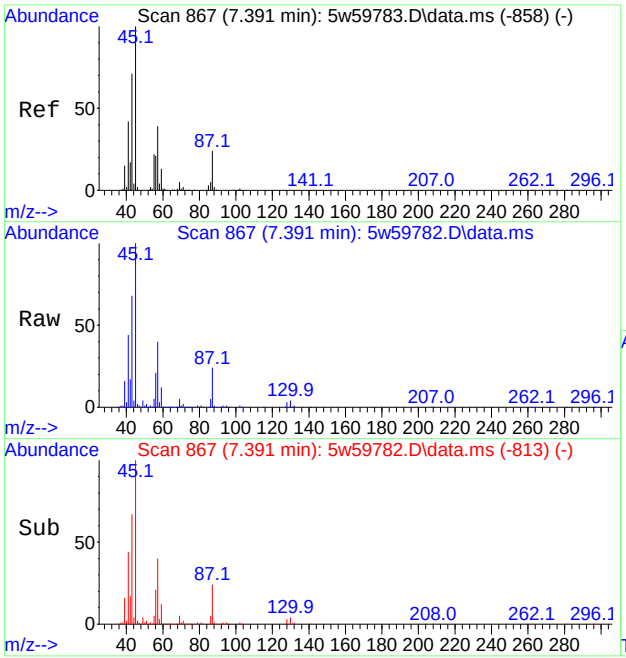


#42
cis-1,2-DICHLOROETHYLENE
Concen: 4.74 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 269410

Ion	Ratio	Lower	Upper
96	100		
98	63.6	34.0	94.0
61	142.1	111.5	171.5

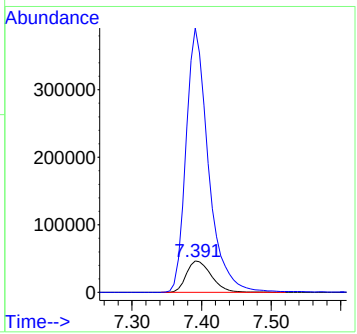


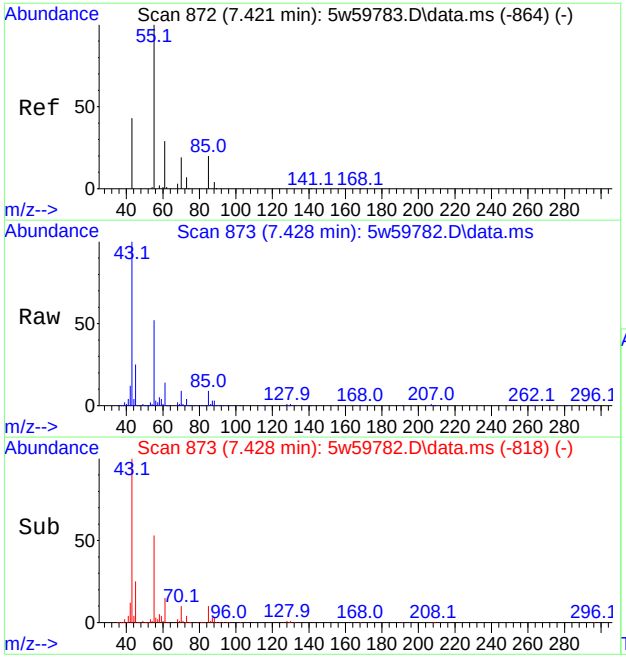


#43
DIISOPROPYL ETHER
Concen: 5.65 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 116383

Ion	Ratio	Lower	Upper
59	100		
45	760.3	720.9	780.9

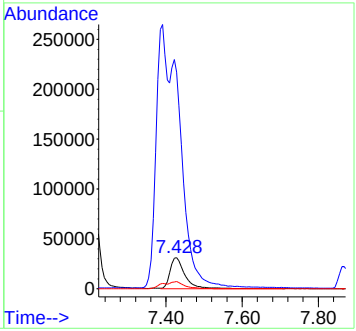


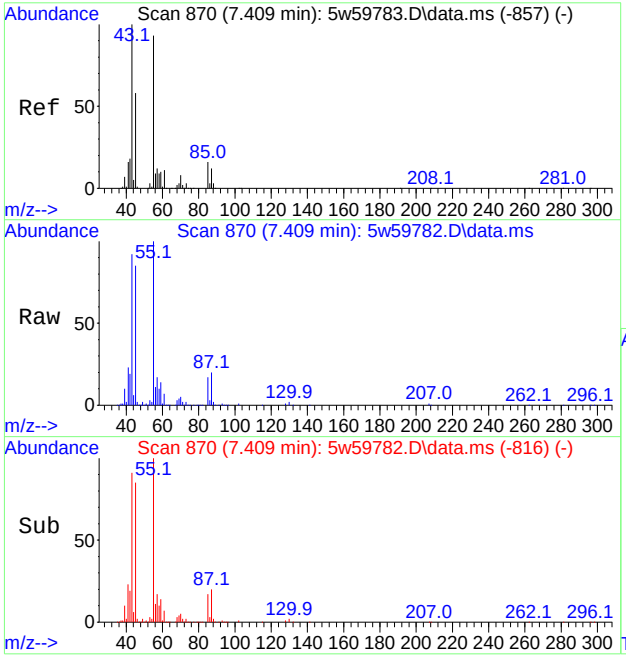


#44
ETHYL ACETATE
Concen: 5.60 PPBV m
RT: 7.428 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 61 Resp: 87258

Ion	Ratio	Lower	Upper
61	100		
43	636.4	560.5	620.5#
88	32.9	4.5	64.5

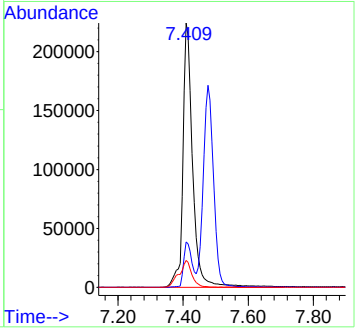


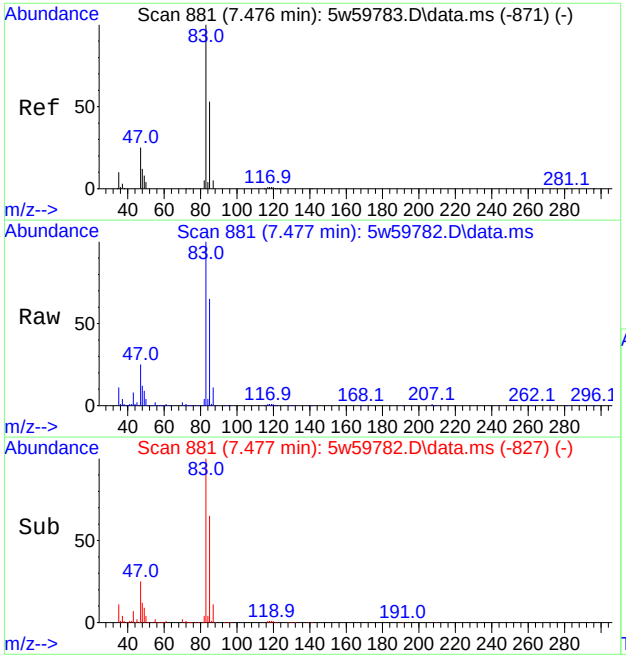


#45
METHYL ACRYLATE
Concen: 5.35 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 471994

Ion	Ratio	Lower	Upper
55	100		
85	15.0	10.9	20.3
58	13.3	9.4	17.6

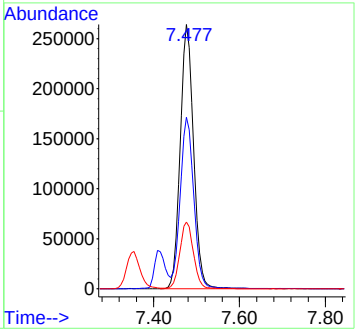


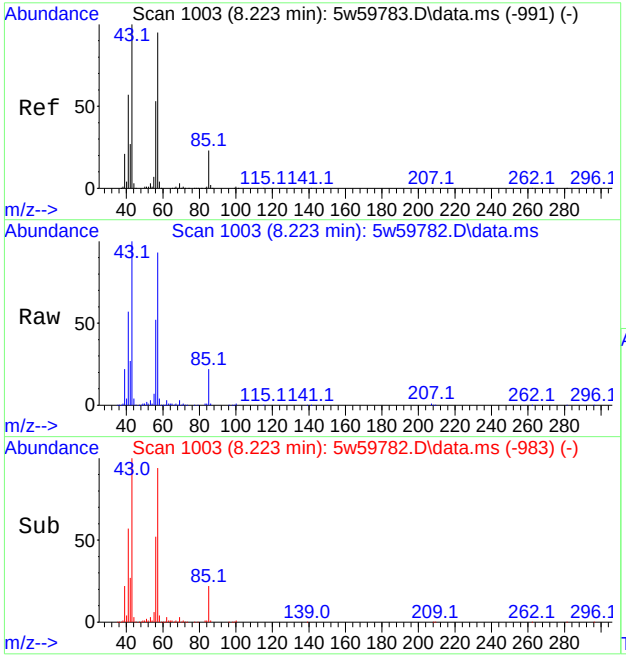


#46
CHLOROFORM
Concen: 4.95 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 570969

Ion	Ratio	Lower	Upper
83	100		
85	66.4	35.6	95.6
47	25.9	0.0	55.2

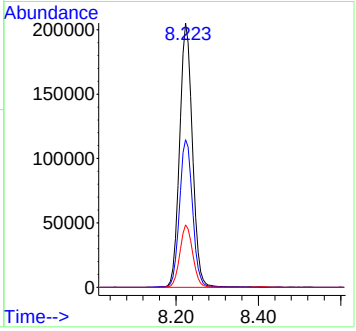


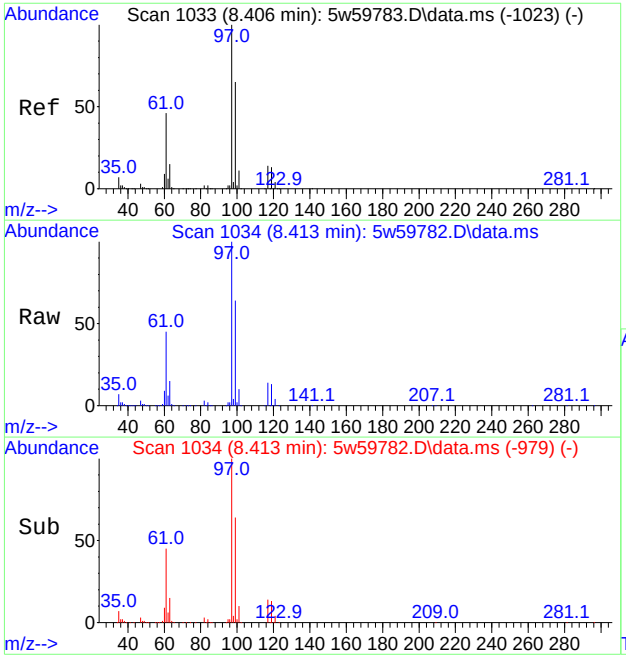


#47
2,4-DIMETHYLPENTANE
Concen: 5.08 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 444023

Ion	Ratio	Lower	Upper
57	100		
56	57.0	26.5	86.5
85	23.7	0.0	53.8

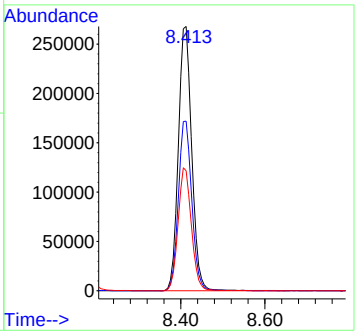


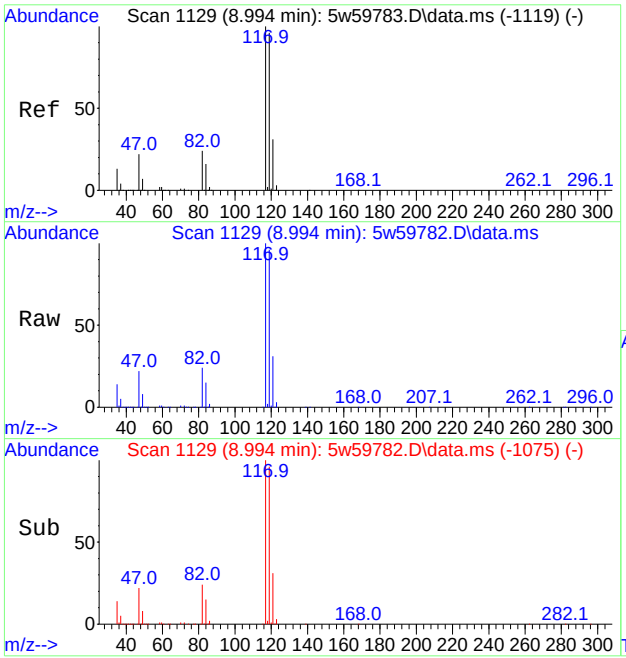


#48
1,1,1-TRICHLOROETHANE
Concen: 4.75 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 97 Resp: 592452

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.8	94.8
61	46.2	15.8	75.8

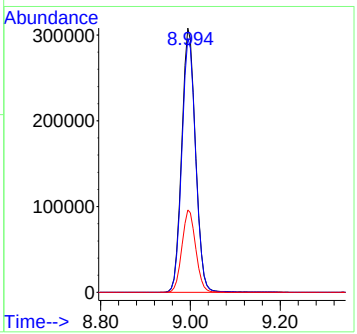


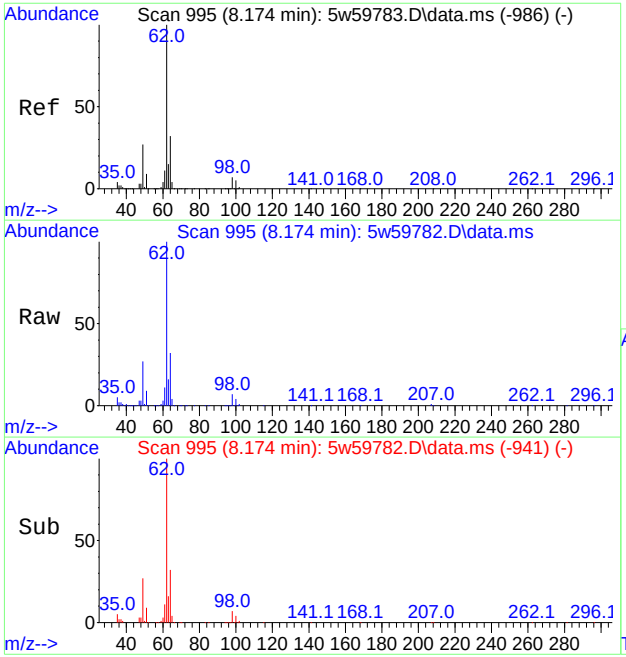


#49
CARBON TETRACHLORIDE
Concen: 4.82 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 658939

Ion	Ratio	Lower	Upper
117	100		
119	96.4	66.9	126.9
121	31.1	1.3	61.3

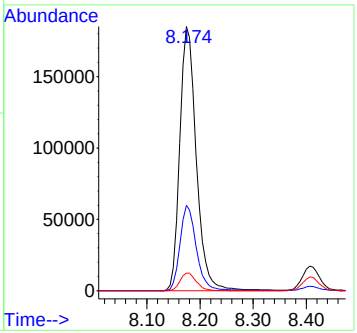


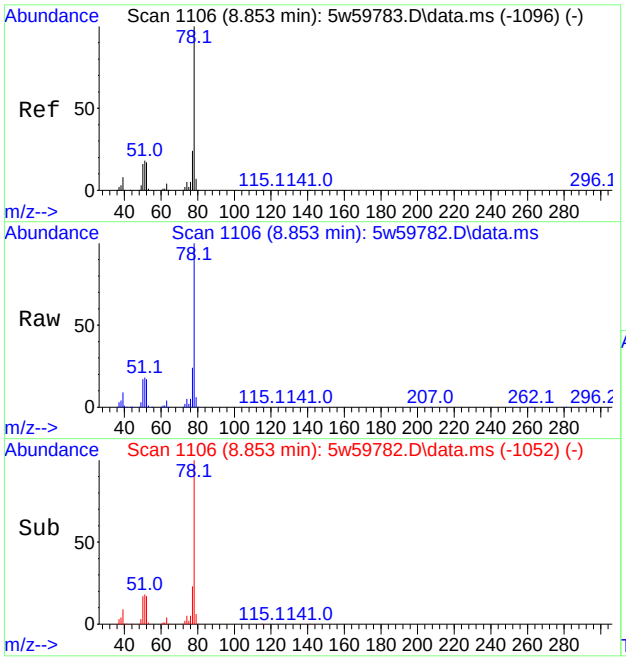


#50
1,2-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 401494

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.7	0.0	36.9

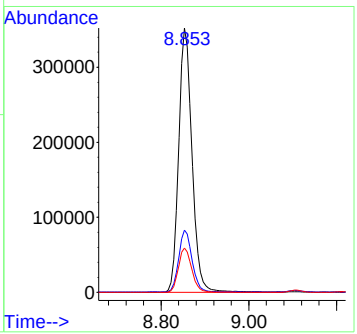


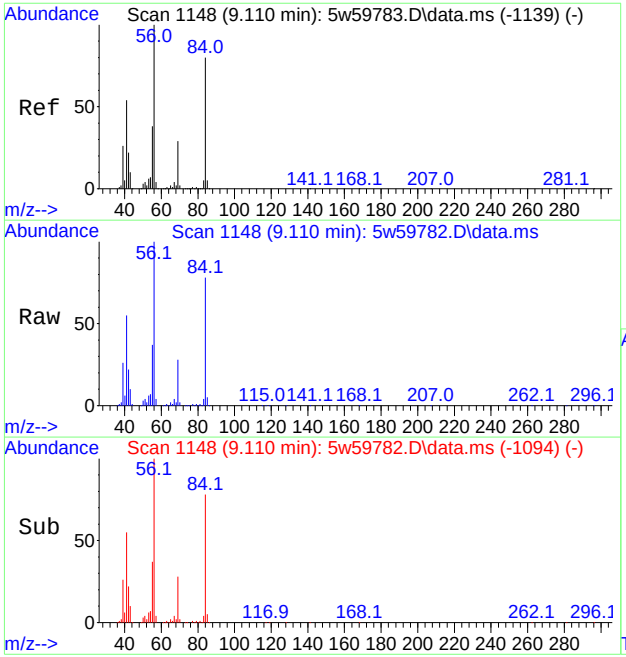


#52
BENZENE
Concen: 5.39 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 78 Resp: 741517

Ion	Ratio	Lower	Upper
78	100		
77	23.5	0.0	53.8
52	16.9	0.0	46.9

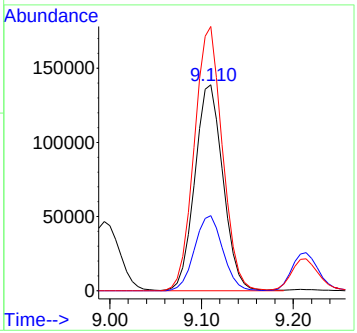


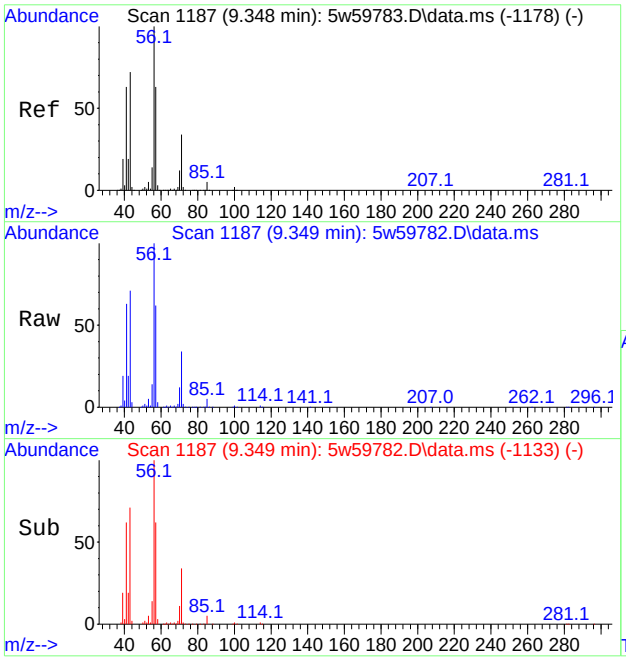


#53
CYCLOHEXANE
Concen: 5.48 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 297316

Ion	Ratio	Lower	Upper
84	100		
69	36.6	6.9	66.9
56	127.4	98.2	158.2

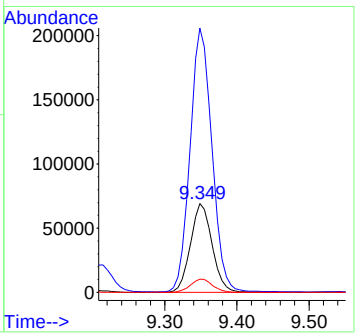


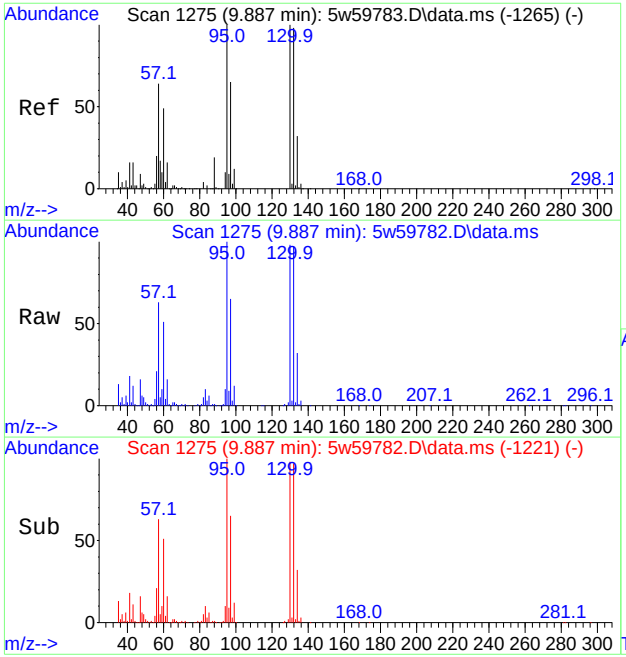


#54
2,3-DIMETHYLPENTANE
Concen: 5.25 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 71 Resp: 144492

Ion	Ratio	Lower	Upper
71	100		
56	300.3	264.6	324.6
85	15.2	0.0	45.3

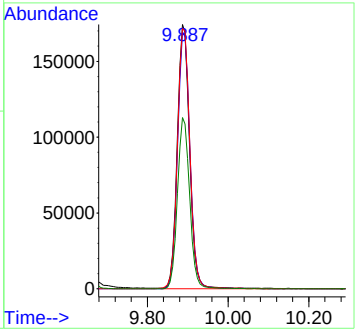


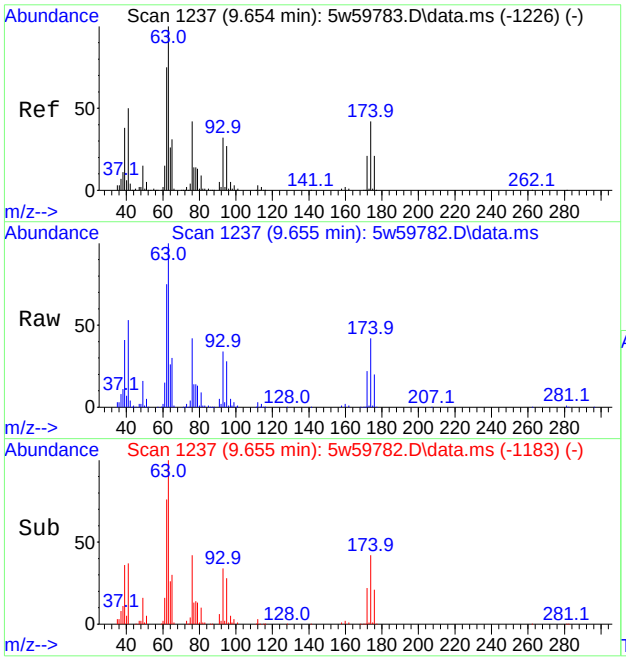


#55
TRICHLOROETHYLENE
Concen: 5.01 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 95 Resp: 369372

Ion	Ratio	Lower	Upper
95	100		
132	97.7	69.0	129.0
130	99.7	70.6	130.6
97	63.9	34.6	94.6

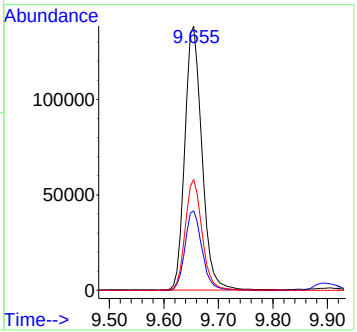


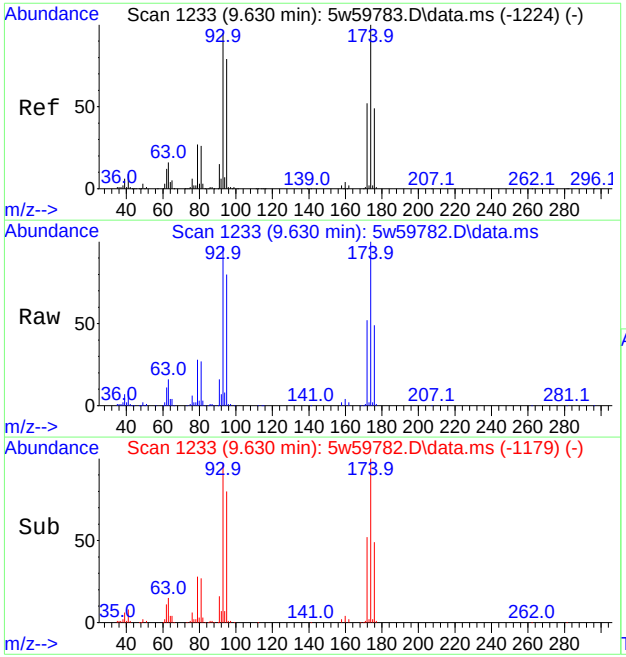


#56
1,2-DICHLOROPROPANE
Concen: 5.12 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 300591

Ion	Ratio	Lower	Upper
63	100		
65	30.0	0.5	60.5
76	41.6	11.5	71.5

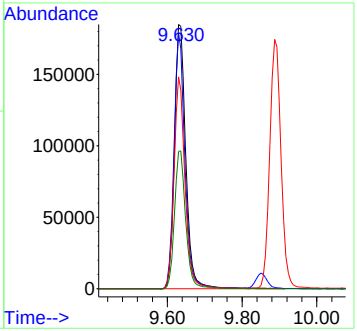


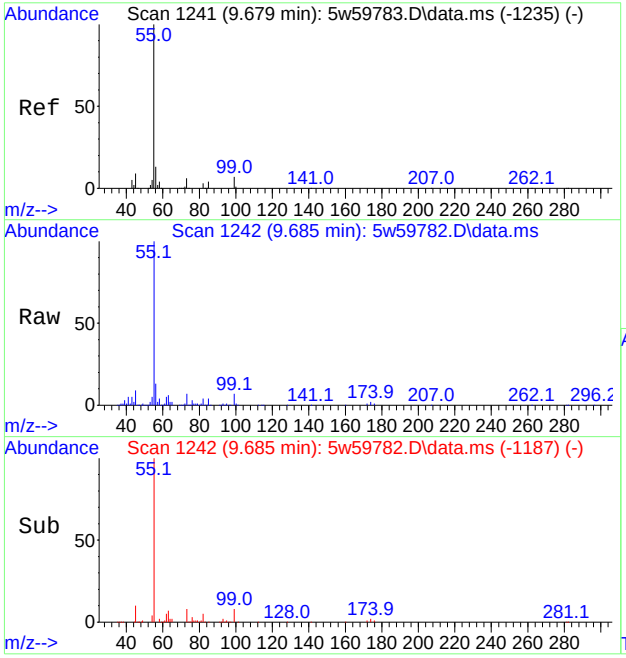


#57
DIBROMOMETHANE
Concen: 4.83 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:174 Resp: 391164

Ion	Ratio	Lower	Upper
174	100		
93	94.0	65.0	120.6
95	78.2	54.5	101.1
172	51.8	36.3	67.5

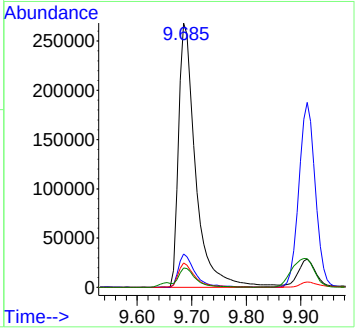


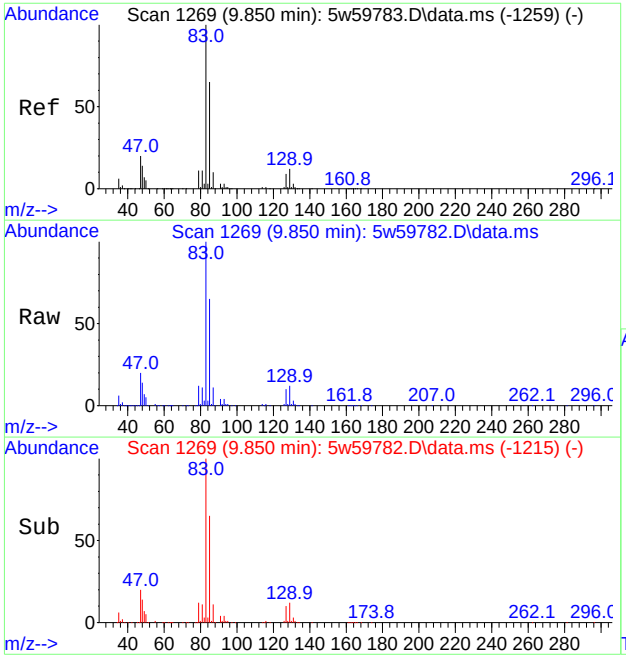


#58
ETHYL ACRYLATE
Concen: 5.68 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 582502

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.5	6.6	12.2
99	8.8	6.4	12.0

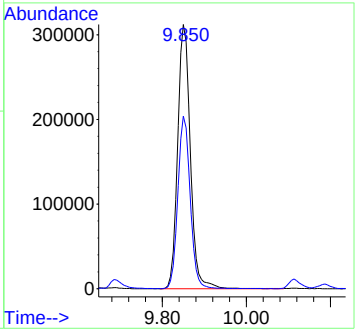


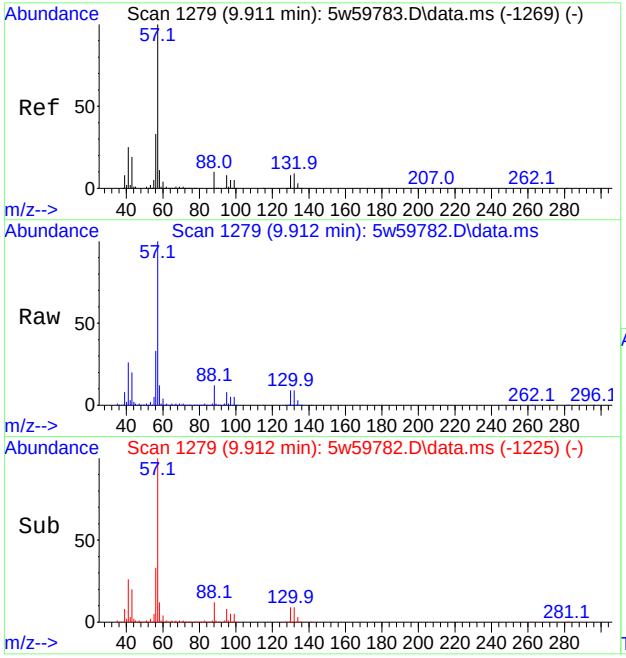


#59
BROMODICHLOROMETHANE
Concen: 5.05 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 653402

Ion	Ratio	Lower	Upper
83	100		
85	63.8	33.4	93.4

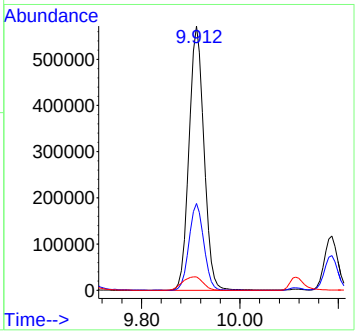


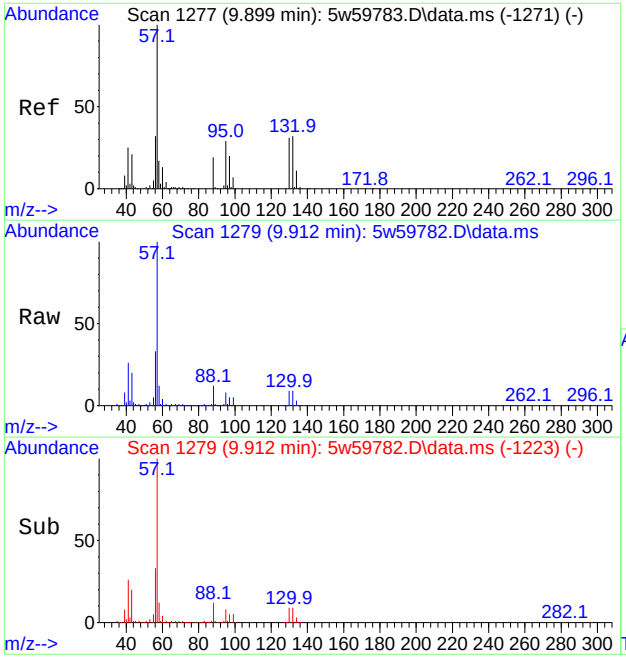


#60
2,2,4-TRIMETHYLPENTANE
Concen: 5.26 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 1206122

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.2	0.0	37.3

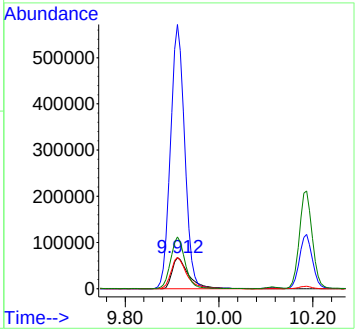


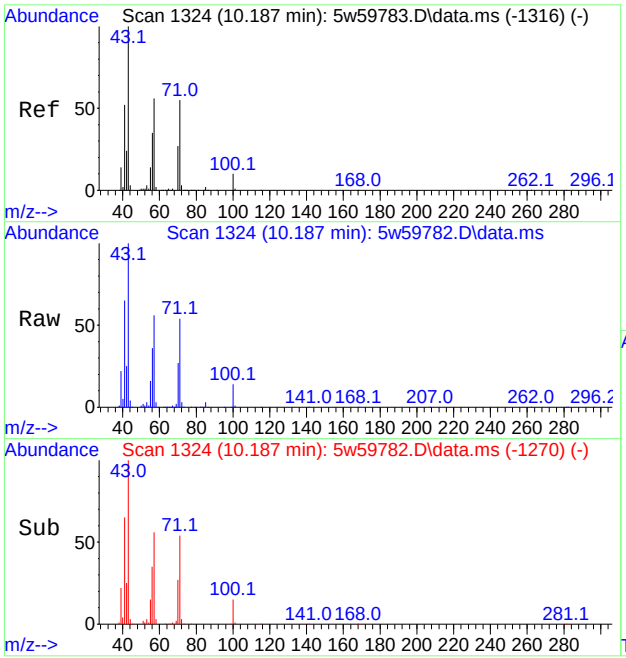


#61
1,4-DIOXANE
Concen: 5.89 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 88 Resp: 168473

Ion	Ratio	Lower	Upper
88	100		
57	845.3	494.2	554.2#
58	100.5	58.9	118.9
43	165.6	78.3	138.3#

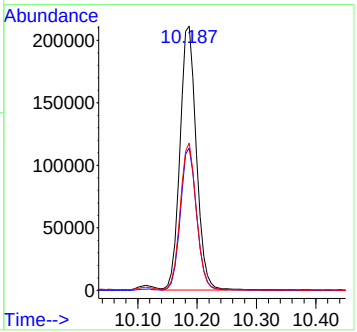


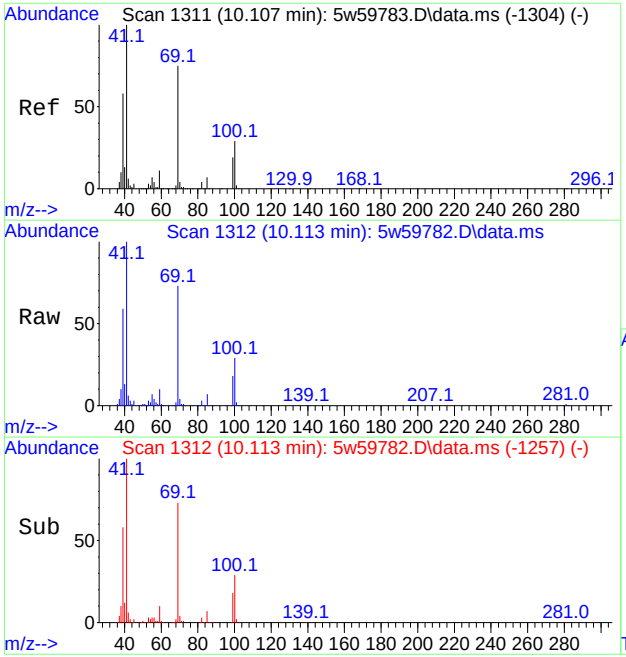


#62
HEPTANE
Concen: 4.93 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 406924

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.4	26.2	86.2

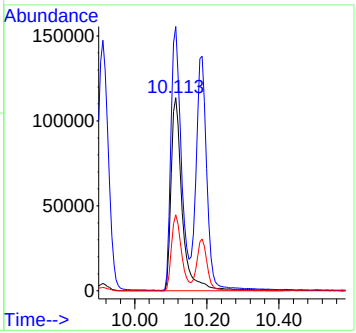


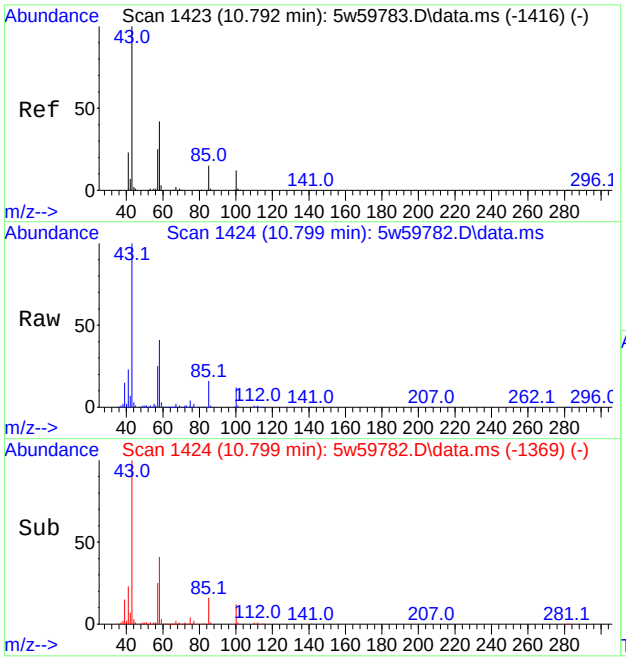


#63
METHYL METHACRYLATE
Concen: 5.84 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 247000

Ion	Ratio	Lower	Upper
69	100		
41	122.1	95.3	155.3
100	35.3	6.3	66.3

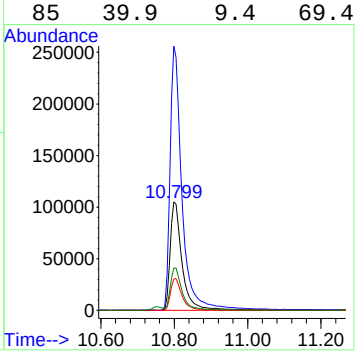


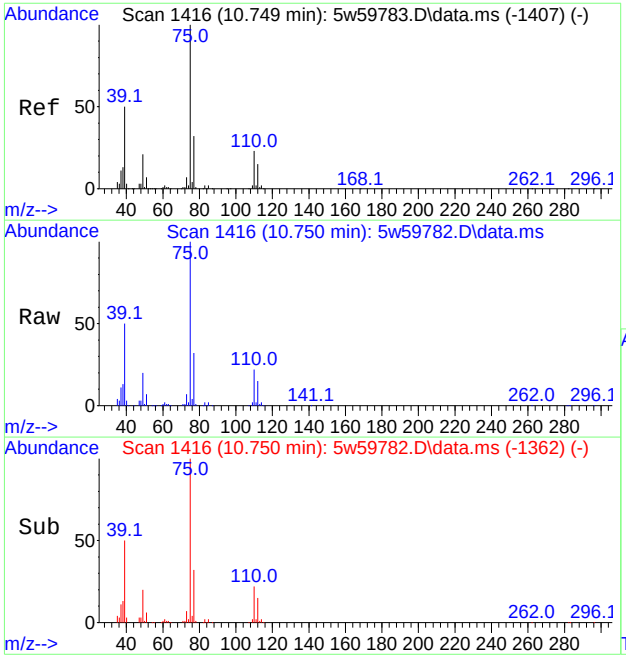


#64
METHYL ISOBUTYL KETONE
Concen: 5.60 PPBV
RT: 10.799 min Scan# 1424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 240795

Ion	Ratio	Lower	Upper
58	100		
43	242.6	209.2	269.2
100	29.0	0.0	58.8
85	39.9	9.4	69.4

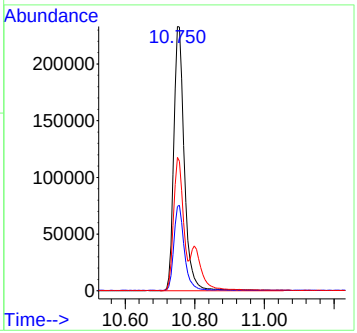


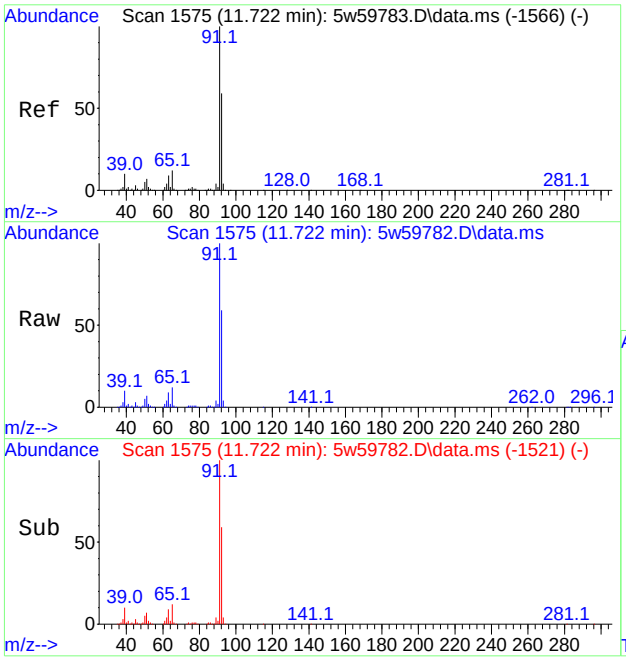


#65
cis-1,3-DICHLOROPROPENE
Concen: 5.47 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 494703

Ion	Ratio	Lower	Upper
75	100		
77	31.7	2.2	62.2
39	48.4	34.3	94.3

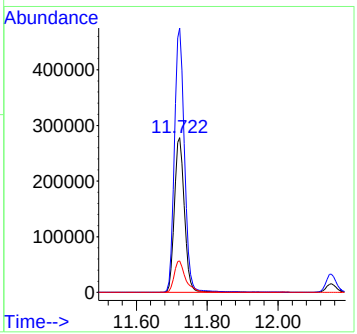


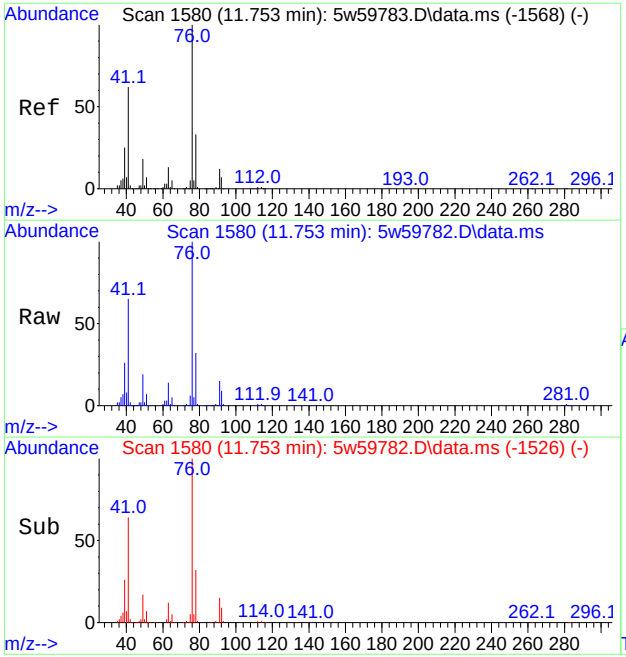


#66
TOLUENE
Concen: 5.55 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 92 Resp: 547474

Ion	Ratio	Lower	Upper
92	100		
91	170.9	140.1	200.1
65	23.1	0.0	53.1

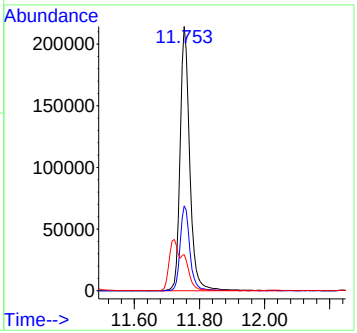


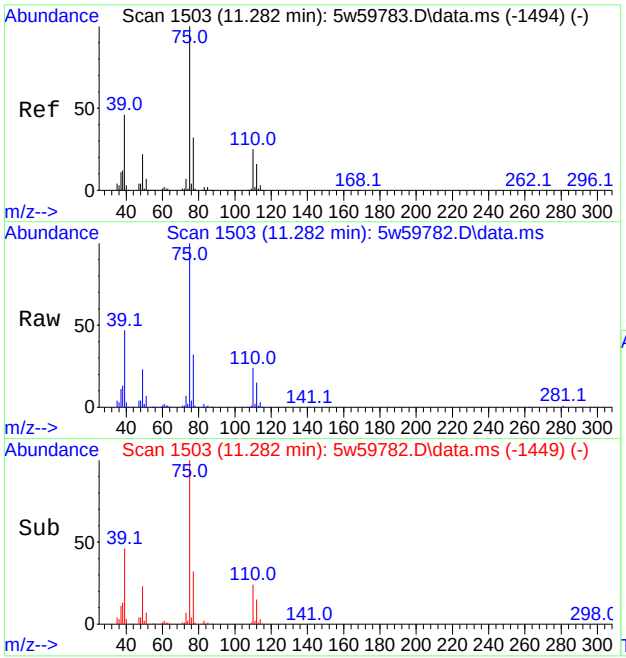


#67
1,3-DICHLOROPROPANE
Concen: 5.43 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 446082

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	11.2	7.1	13.1

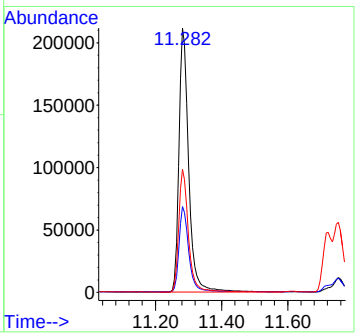


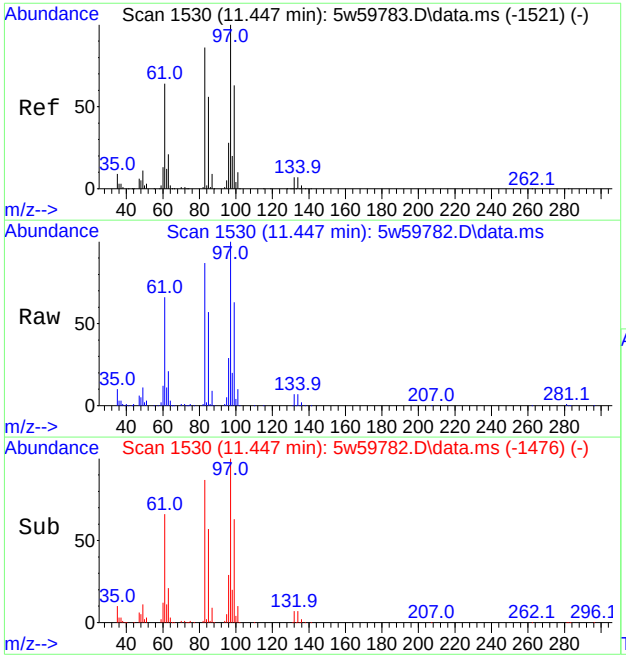


#68
trans-1,3-DICHLOROPROPENE
Concen: 5.29 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 434584

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	46.8	16.1	76.1

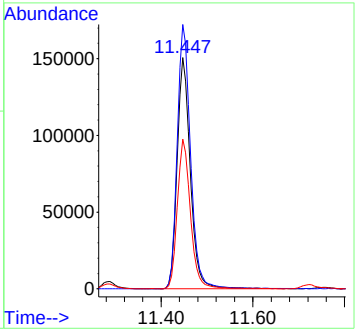


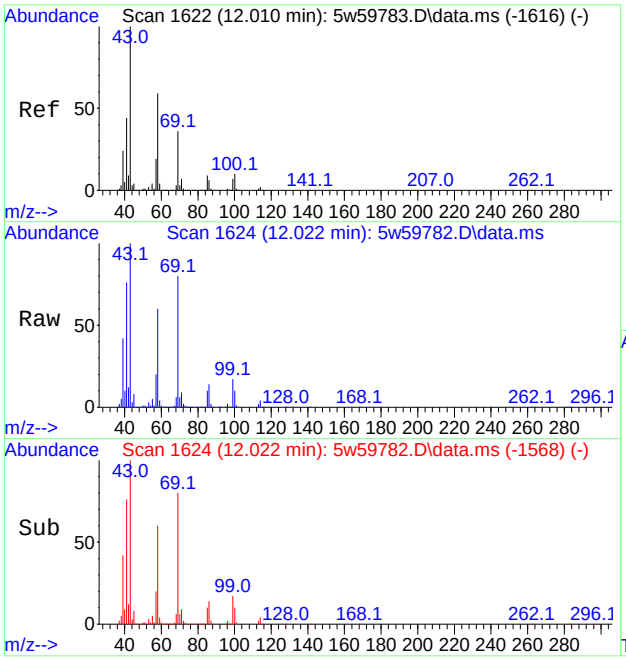


#69
1,1,2-TRICHLOROETHANE
Concen: 5.53 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 301561

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	64.7	35.3	95.3

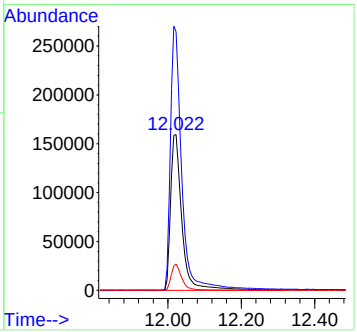


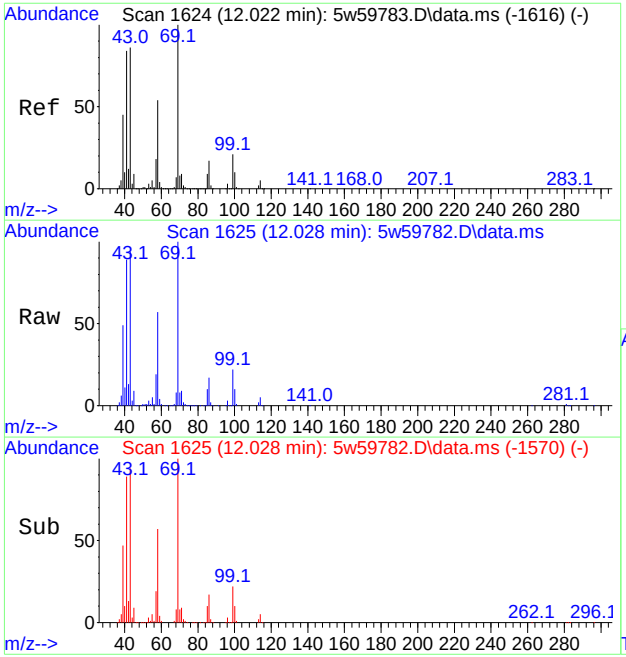


#71
2-HEXANONE
Concen: 6.43 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 344921

Ion	Ratio	Lower	Upper
58	100		
43	169.0	137.2	197.2
100	16.2	0.0	46.9

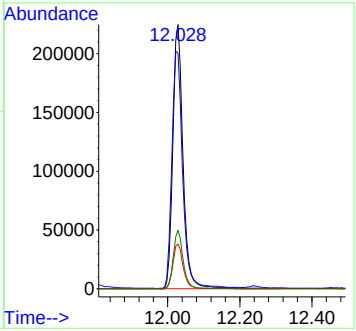


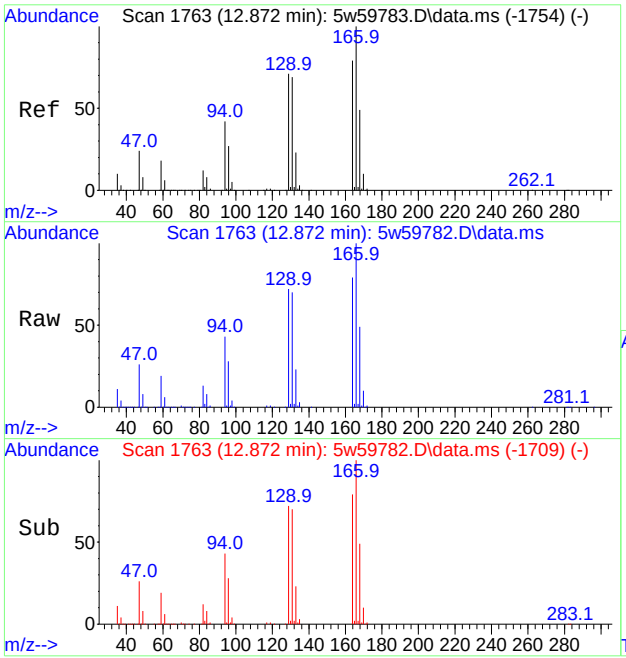


#72
ETHYL METHACRYLATE
Concen: 6.46 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 445397

Ion	Ratio	Lower	Upper
69	100		
41	94.9	64.0	119.0
86	16.9	12.0	22.4
99	21.6	15.0	27.8

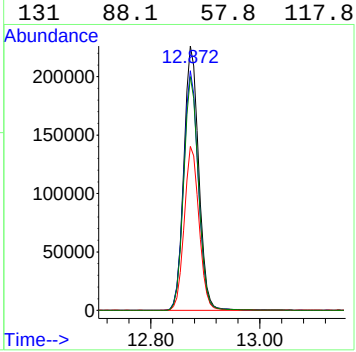


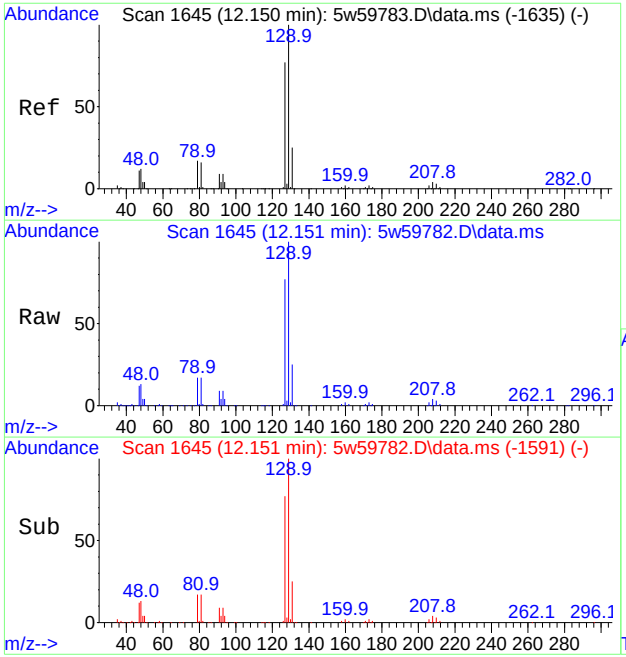


#73
TETRACHLOROETHYLENE
Concen: 5.33 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:164 Resp: 427336

Ion	Ratio	Lower	Upper
164	100		
129	90.2	59.7	119.7
168	62.2	32.2	92.2
131	88.1	57.8	117.8

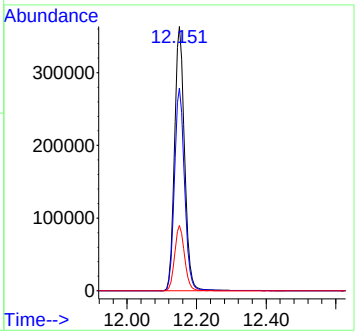


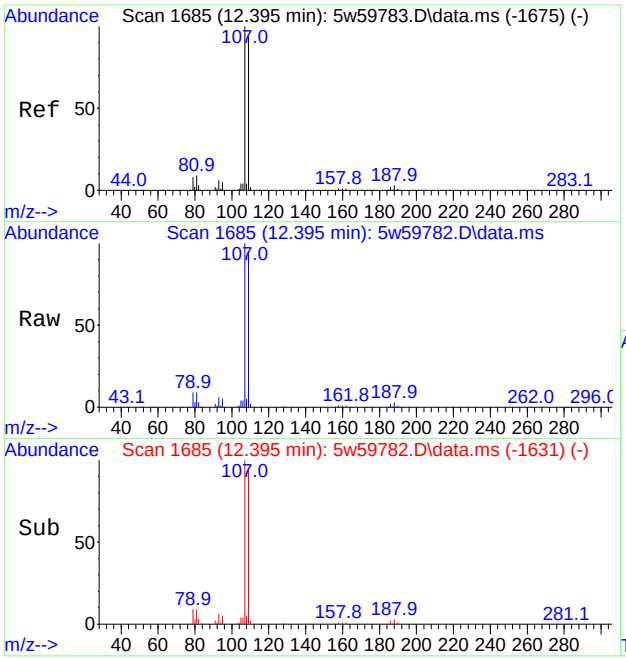


#74
DIBROMOCHLOROMETHANE
Concen: 5.41 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:129 Resp: 728217

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.5	0.0	54.5

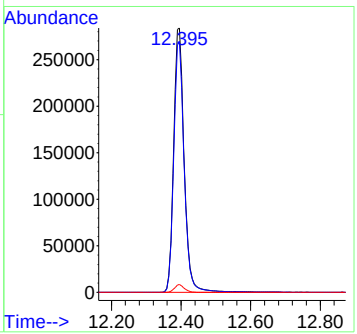


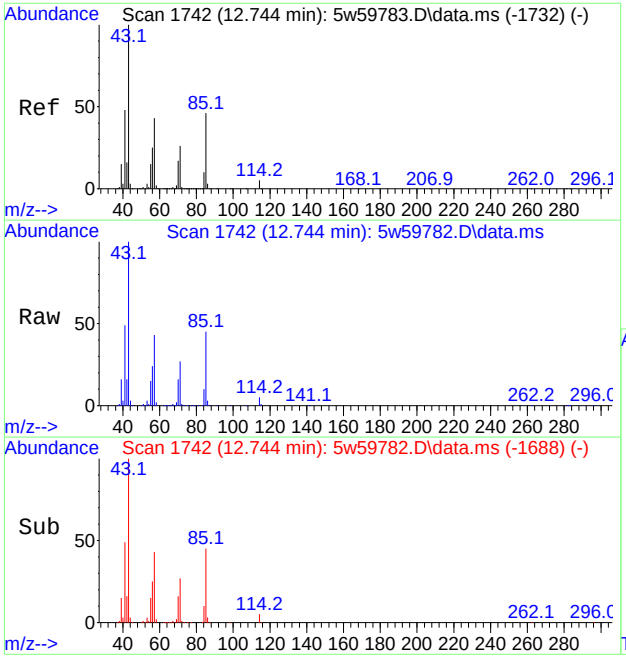


#75
1,2-DIBROMOETHANE
Concen: 5.98 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:107 Resp: 595110

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

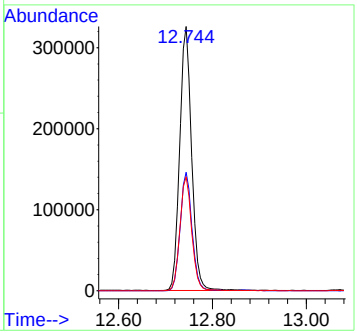


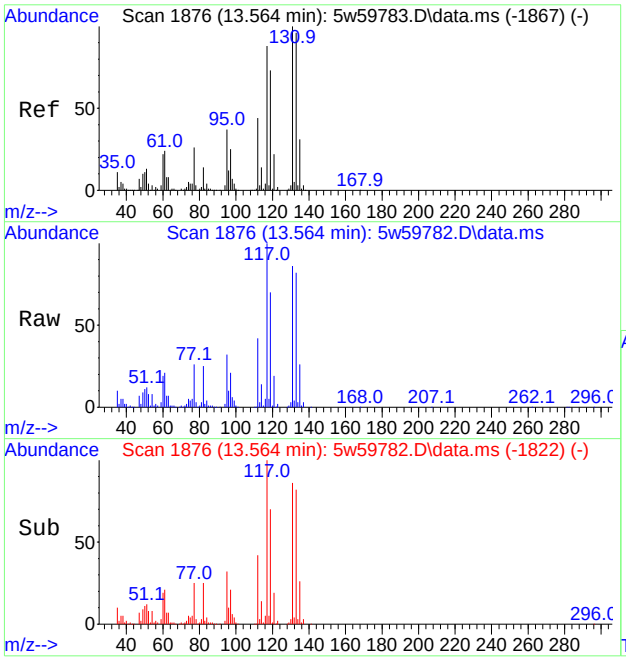


#76
OCTANE
Concen: 5.29 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 576898

Ion	Ratio	Lower	Upper
43	100		
85	44.8	14.6	74.6
57	43.5	13.7	73.7

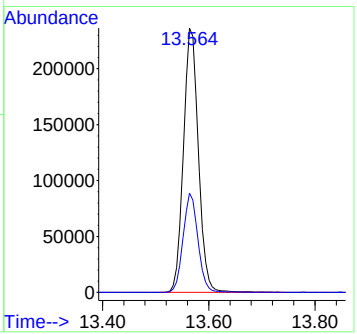


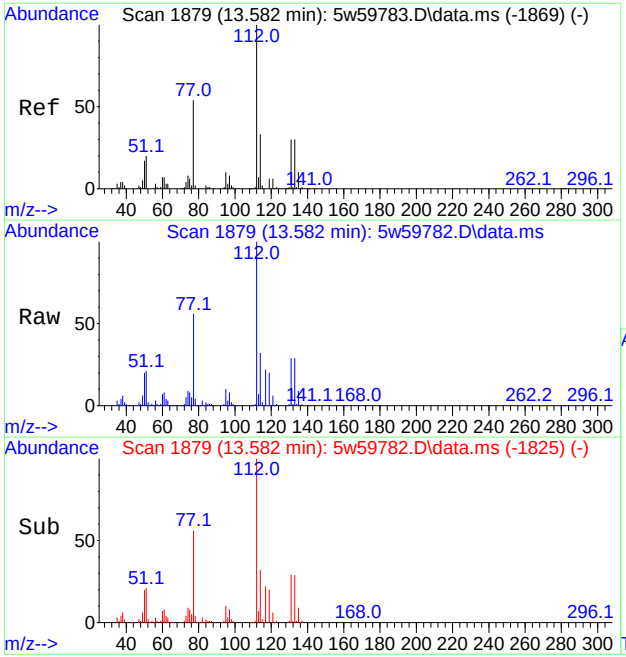


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.26 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:131 Resp: 463451

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

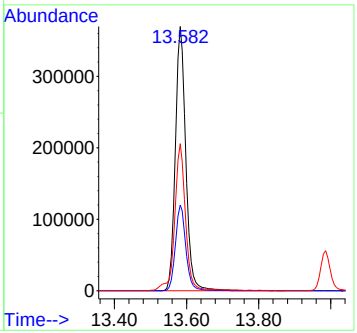


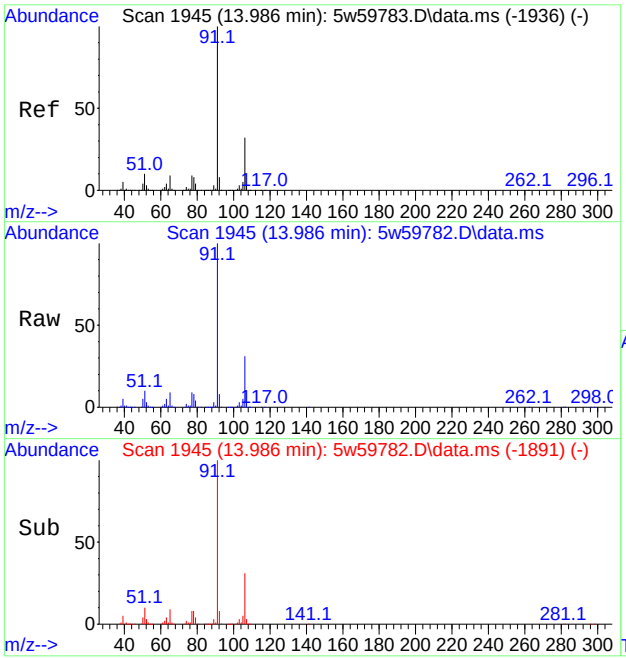


#78
CHLOROBENZENE
Concen: 5.17 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:112 Resp: 750075

Ion	Ratio	Lower	Upper
112	100		
114	32.5	2.6	62.6
77	57.4	25.4	85.4

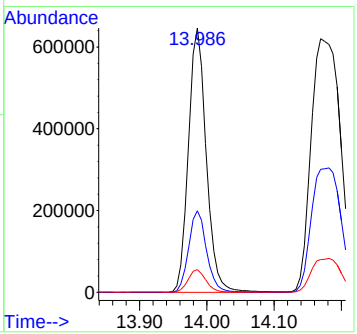


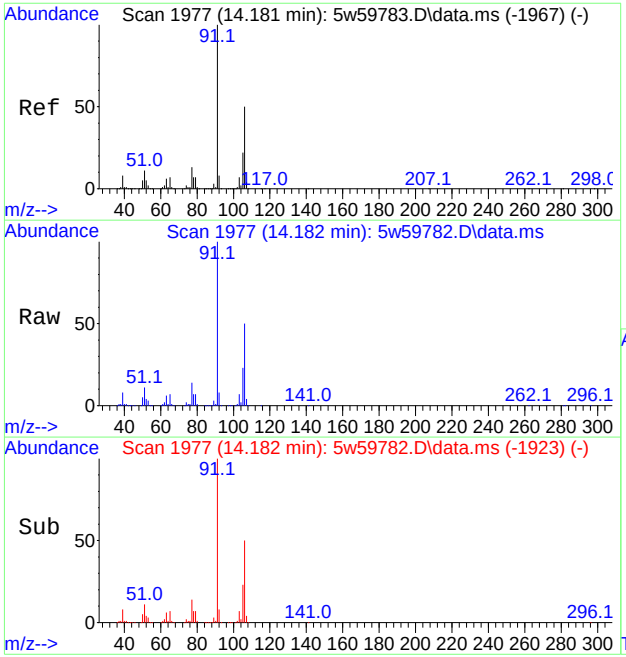


#79
ETHYLBENZENE
Concen: 5.80 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1198151

Ion	Ratio	Lower	Upper
91	100		
106	31.0	1.3	61.3
77	8.6	0.0	38.6

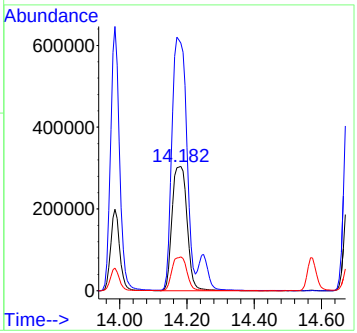


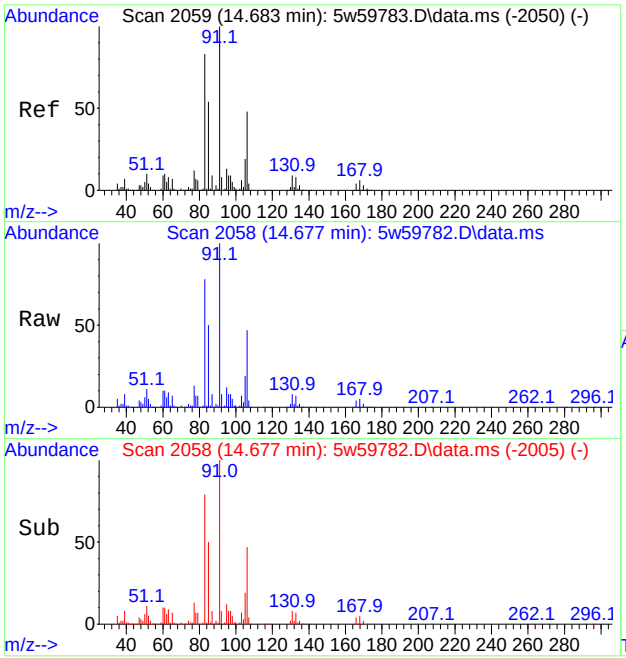


#80
m,p-XYLENE
Concen: 11.83 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 943241

Ion	Ratio	Lower	Upper
106	100		
91	199.4	171.0	231.0
77	27.3	0.0	56.7

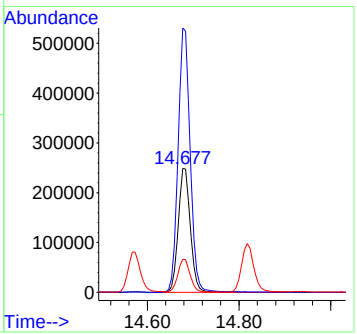


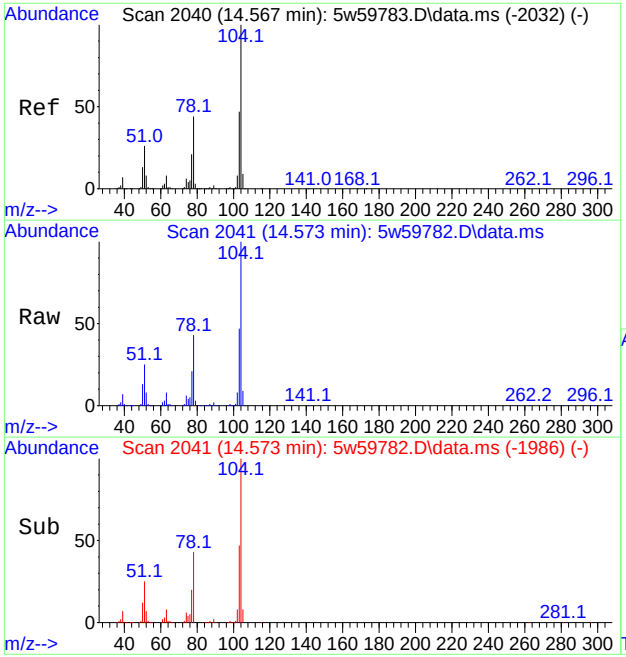


#81
o-XYLENE
Concen: 6.21 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 456348

Ion	Ratio	Lower	Upper
106	100		
91	212.0	181.6	241.6
77	27.1	0.0	56.6

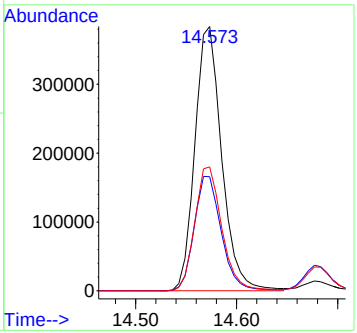


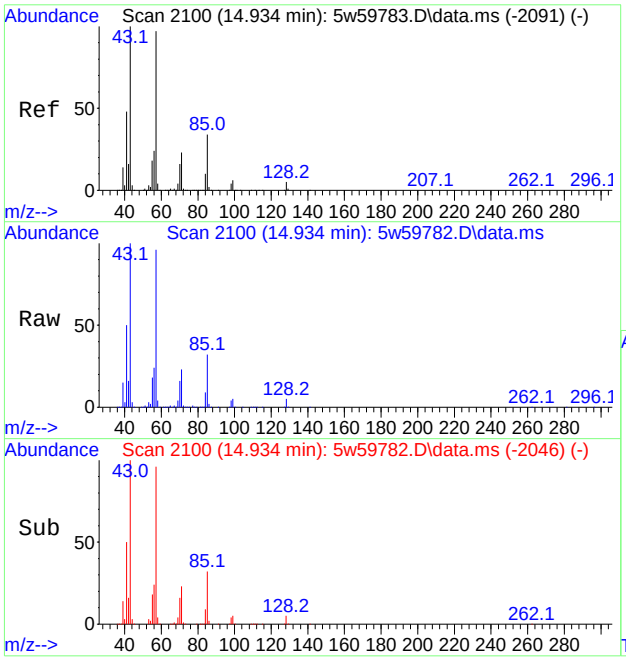


#82
STYRENE
Concen: 6.37 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:104 Resp: 711140

Ion	Ratio	Lower	Upper
104	100		
78	43.6	13.3	73.3
103	47.1	17.2	77.2

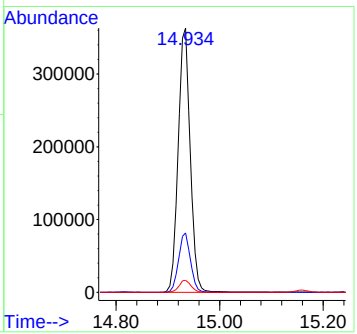


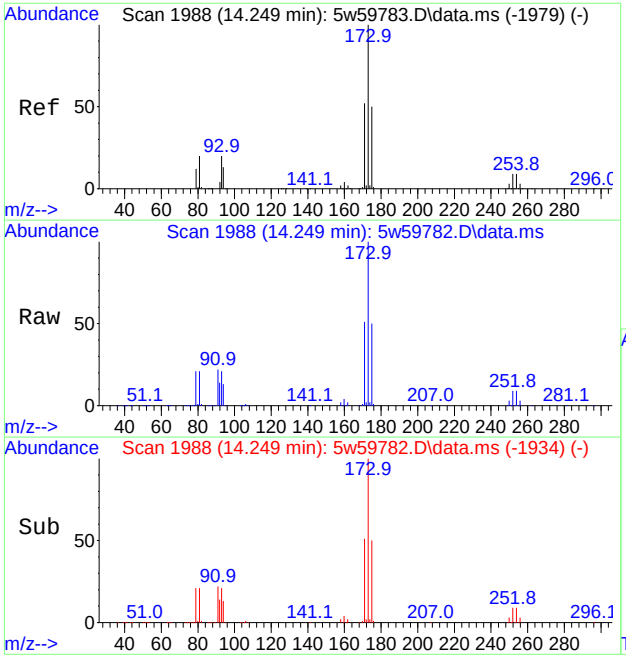


#83
NONANE
Concen: 5.44 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 586796

Ion	Ratio	Lower	Upper
43	100		
71	22.3	0.0	52.7
128	4.6	0.0	34.7

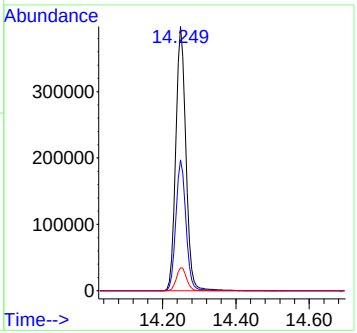


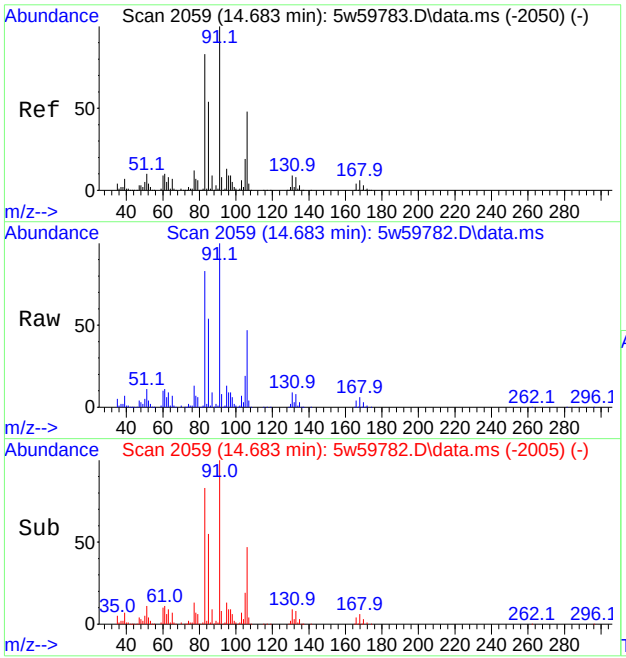


#84
BROMOFORM
Concen: 5.54 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:173 Resp: 765790

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	8.9	0.0	39.0

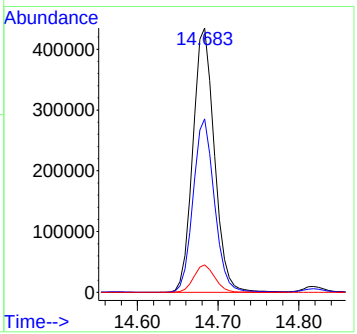


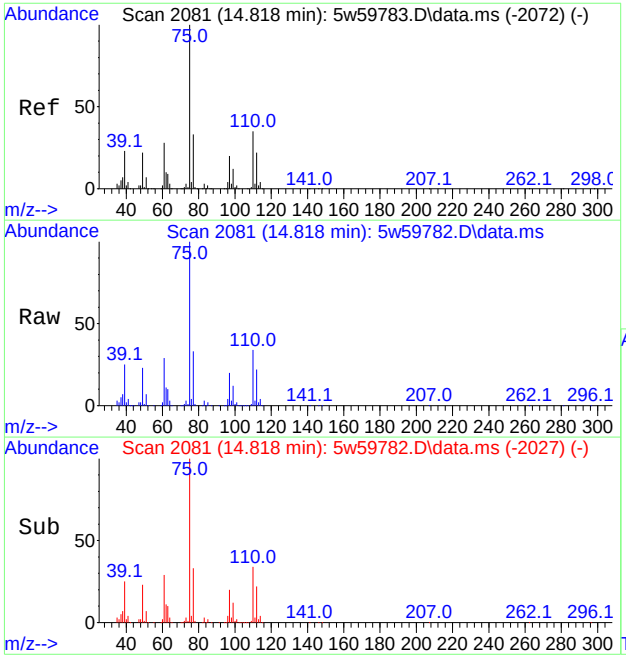


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 6.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 804240

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.2	95.2
131	10.3	0.0	40.3

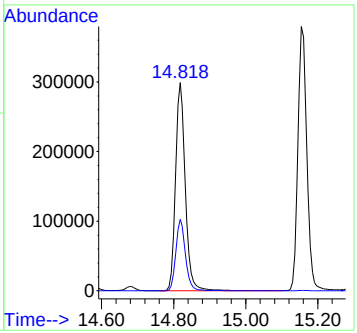


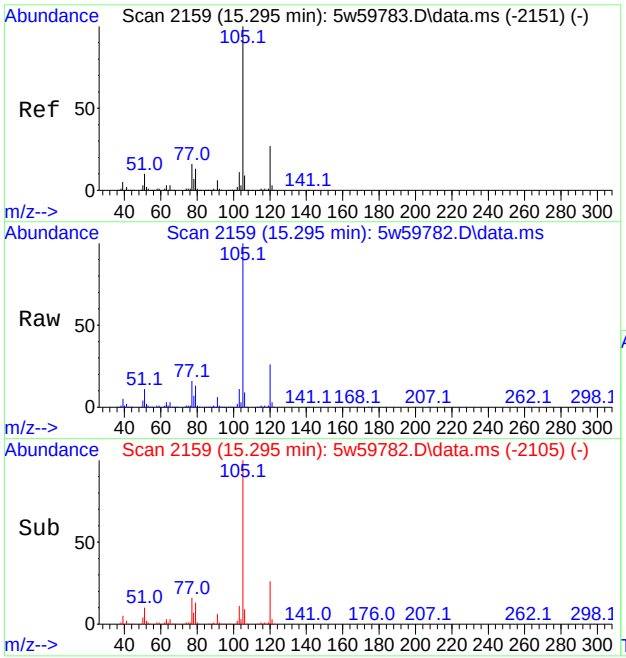


#87
1,2,3-TRICHLOROPROPANE
Concen: 5.21 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 563086

Ion	Ratio	Lower	Upper
75	100		
110	34.0	4.4	64.4

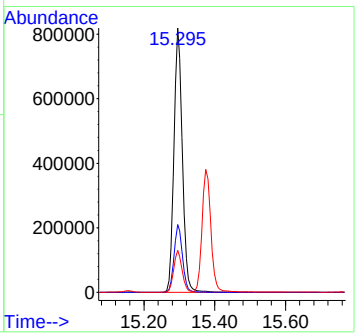


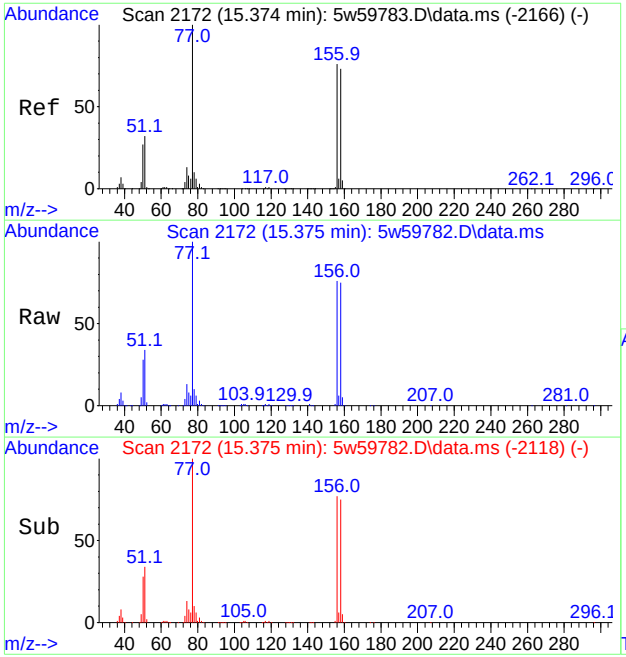


#88
ISOPROPYLBENZENE
Concen: 5.60 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1351649

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	15.5	0.0	45.6

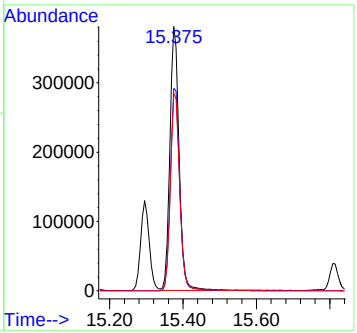


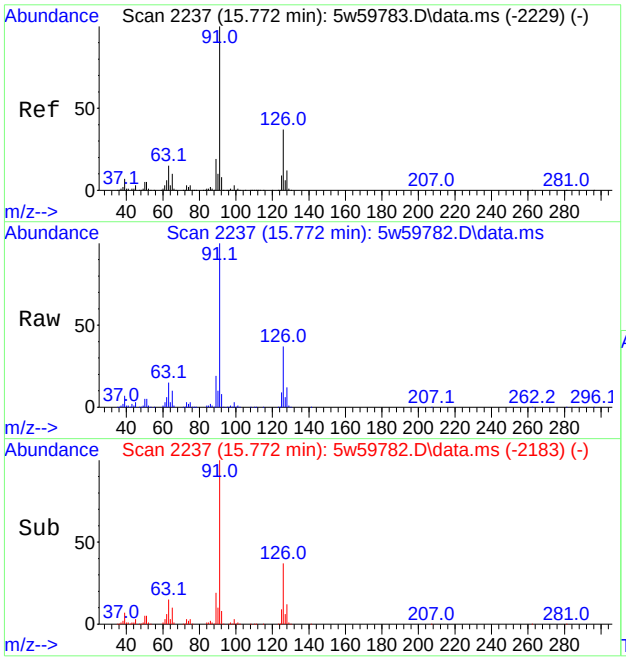


#89
BROMOBENZENE
Concen: 5.25 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 77 Resp: 663458

Ion	Ratio	Lower	Upper
77	100		
156	78.3	54.9	101.9
158	75.8	53.5	99.3

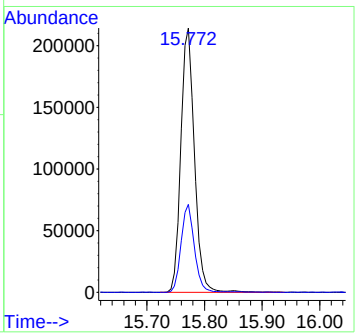


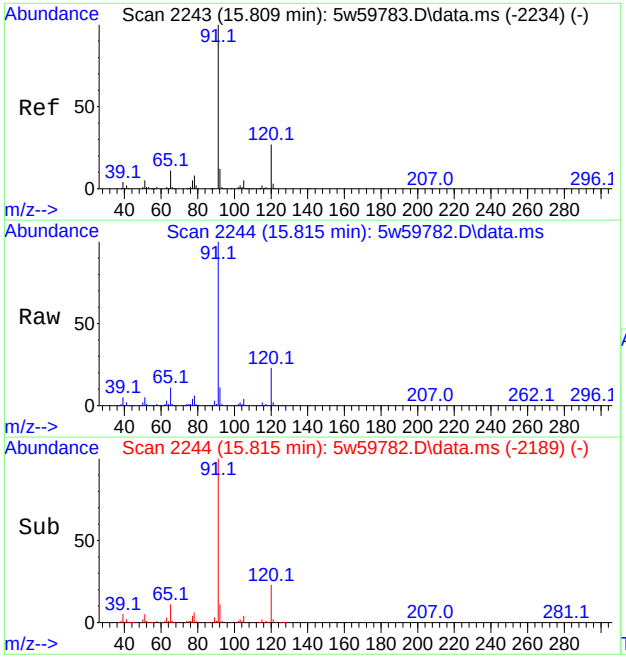


#90
2-CHLOROTOLUENE
Concen: 5.42 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:126 Resp: 351599

Ion	Ratio	Lower	Upper
126	100		
128	32.9	2.7	62.7

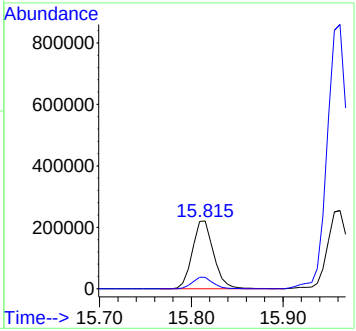


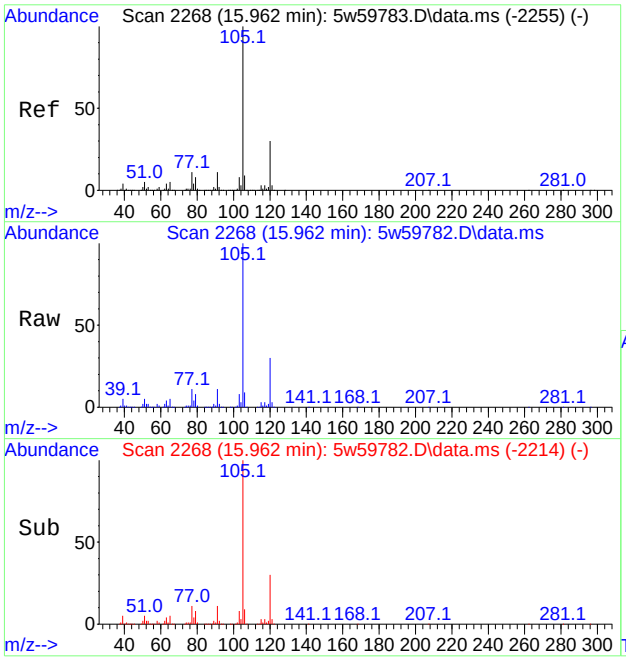


#91
n-PROPYLBENZENE
Concen: 5.54 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:120 Resp: 357322

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

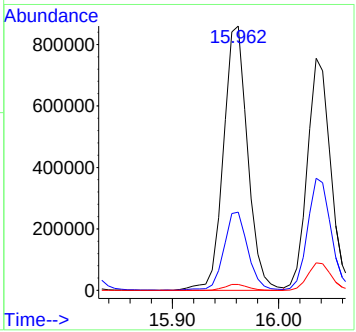


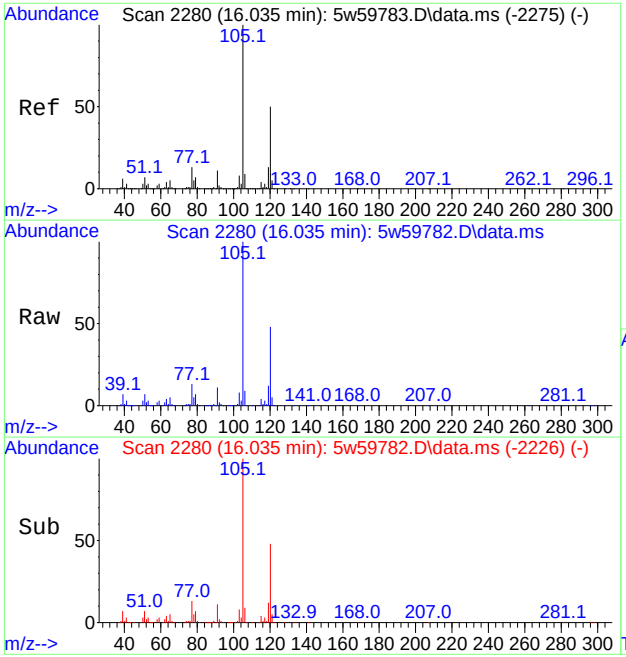


#92
4-ETHYLTOLUENE
Concen: 6.29 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1362882

Ion	Ratio	Lower	Upper
105	100		
120	29.5	0.0	59.9
119	2.3	0.0	32.3

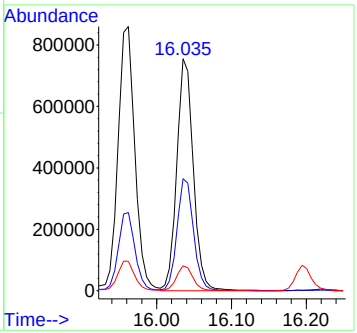


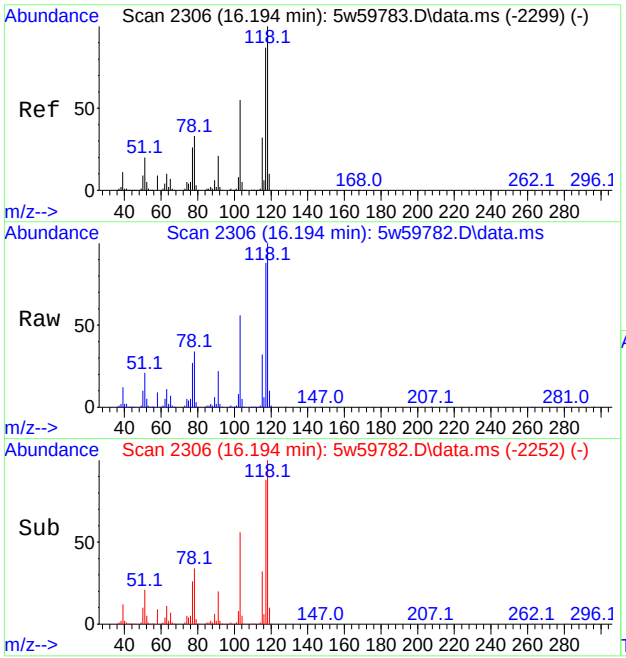


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.77 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1159491

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.4	79.4
91	10.9	0.0	40.8

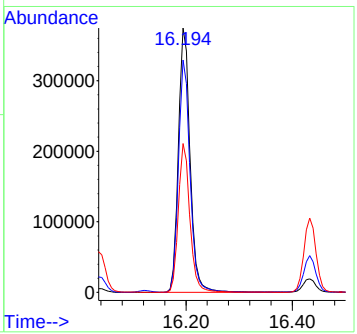


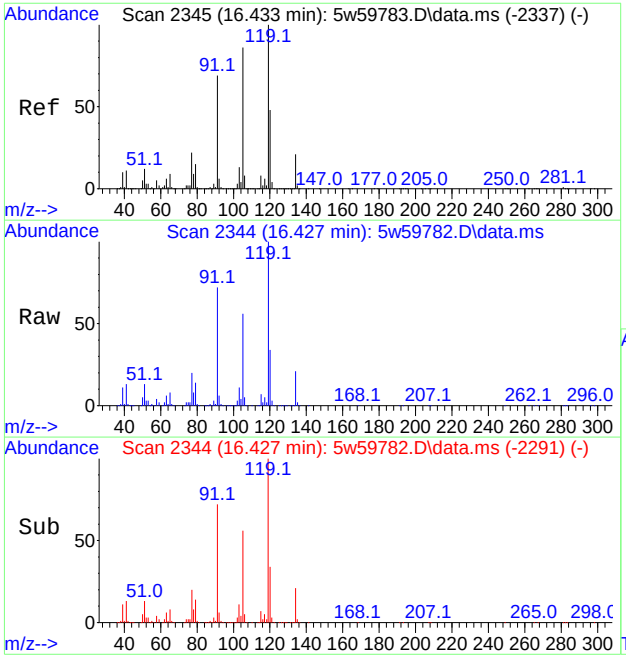


#94
ALPHA-METHYLSTYRENE
Concen: 5.89 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:118 Resp: 573224

Ion	Ratio	Lower	Upper
118	100		
117	87.5	60.9	113.1
103	55.8	38.6	71.8

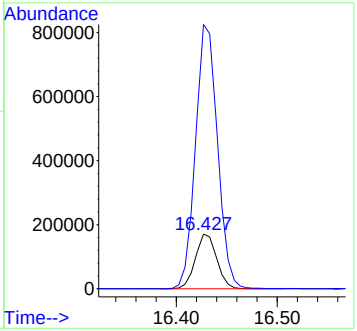


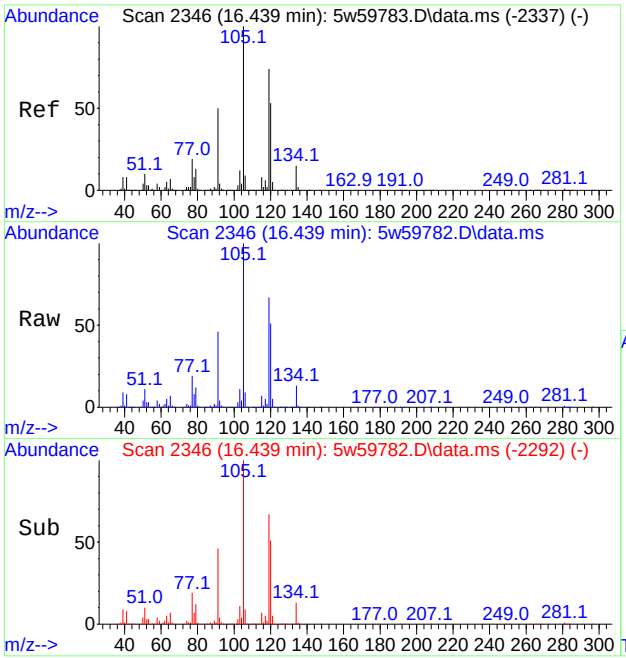


#95
tert-BUTYLBENZENE
Concen: 6.02 PPBV
RT: 16.427 min Scan# 2344
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 250823

Ion	Ratio	Lower	Upper
134	100		
119	500.9	459.3	519.3

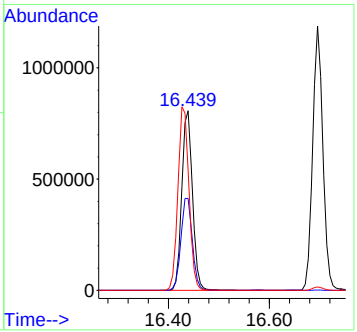


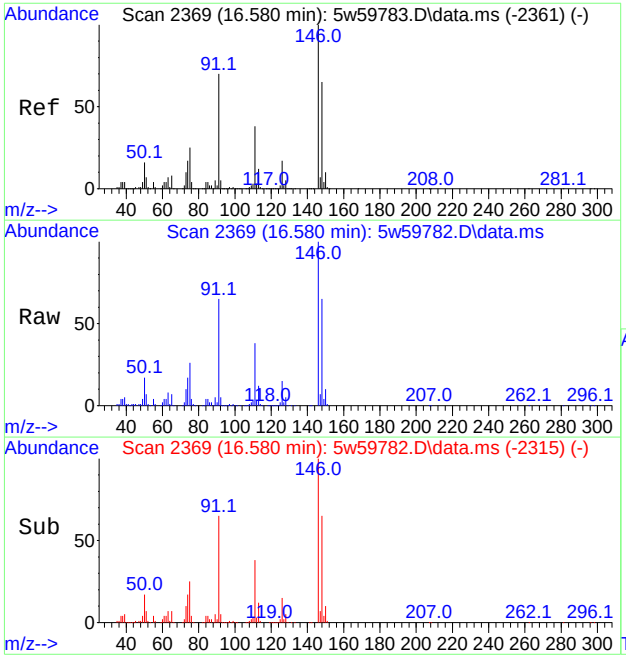


#96
1,2,4-TRIMETHYLBENZENE
Concen: 6.18 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1191915

Ion	Ratio	Lower	Upper
105	100		
120	55.1	25.7	85.7
119	105.4	75.7	135.7

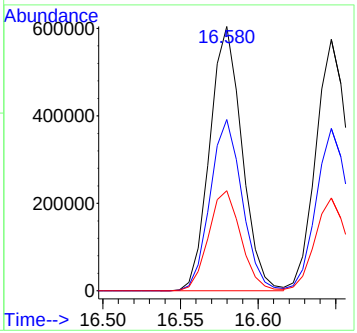


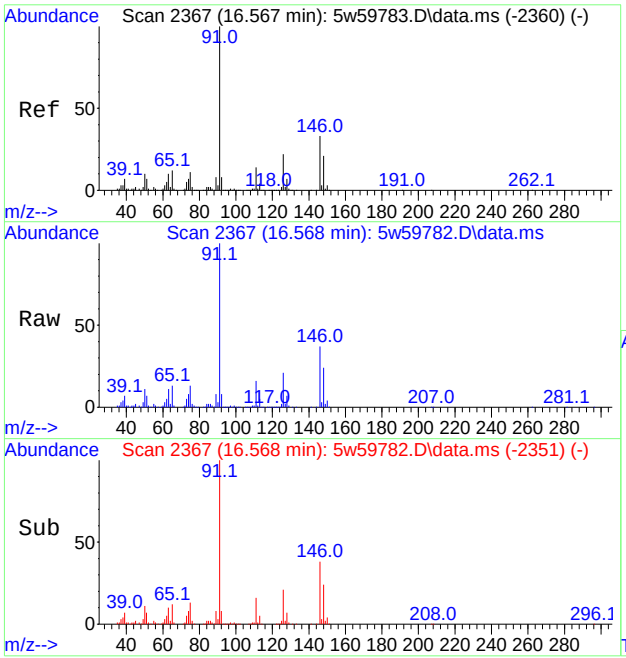


#97
m-DICHLOROBENZENE
Concen: 5.56 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 871935

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.8	94.8
111	38.2	8.2	68.2

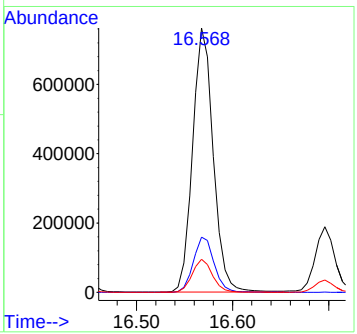


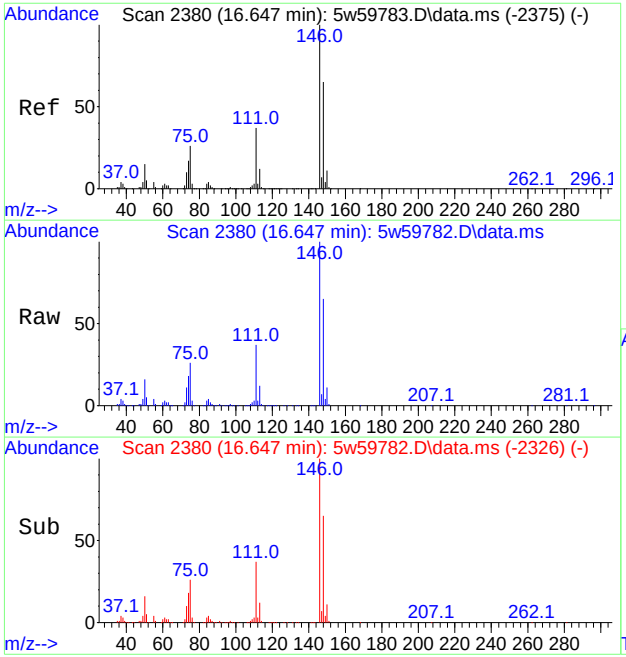


#98
BENZYL CHLORIDE
Concen: 6.44 PPBV
RT: 16.568 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1137176

Ion	Ratio	Lower	Upper
91	100		
126	21.2	0.0	51.7
65	12.5	0.0	42.2

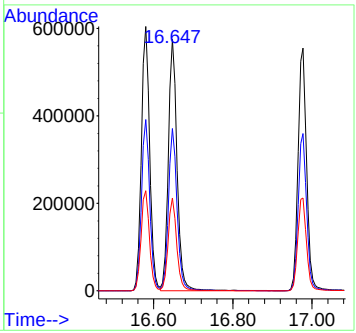


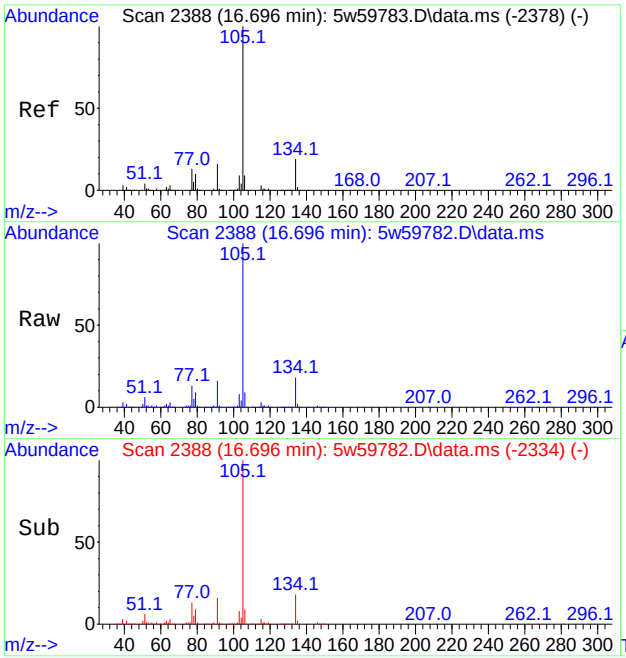


#99
p-DICHLOROBENZENE
Concen: 5.40 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 878264

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.6	94.6
111	36.4	6.7	66.7

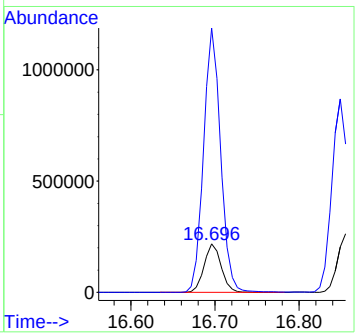


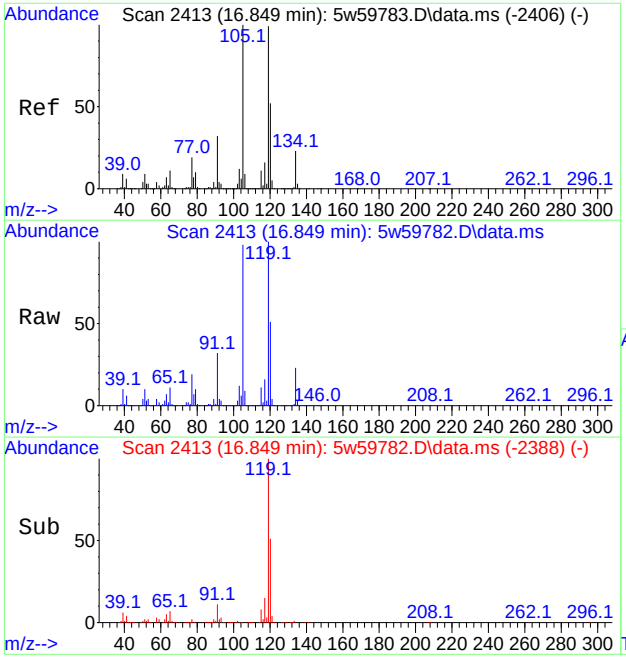


#100
sec-BUTYLBENZENE
Concen: 5.79 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 309649

Ion	Ratio	Lower	Upper
134	100		
105	540.4	502.5	562.5

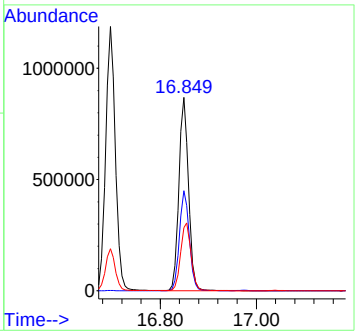


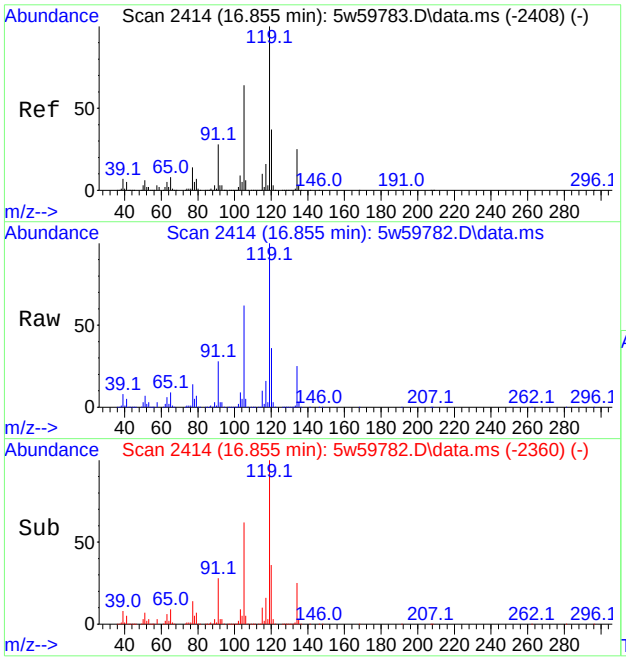


#101
1,2,3-TRIMETHYLBENZENE
Concen: 5.87 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1209627

Ion	Ratio	Lower	Upper
105	100		
120	53.0	23.5	83.5
91	37.7	7.4	67.4

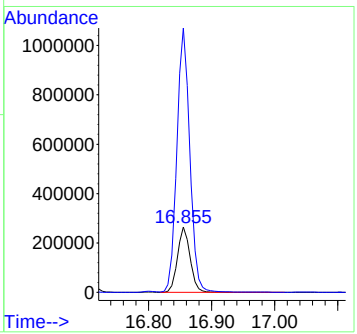


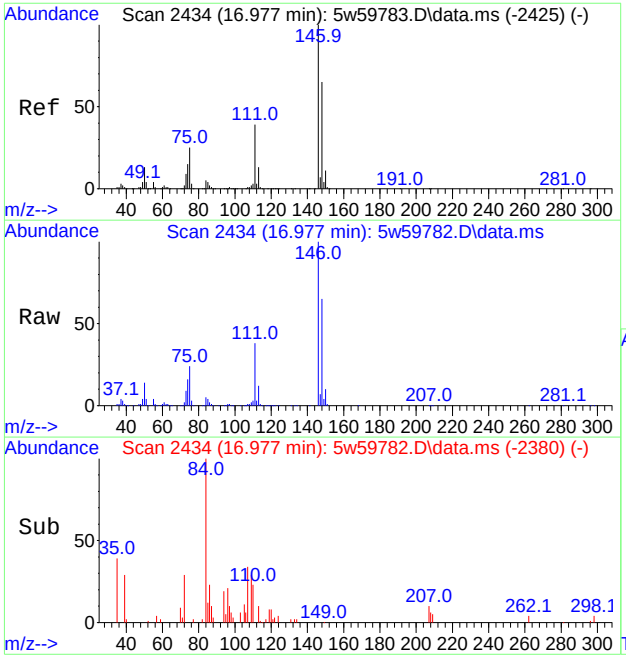


#102
p-ISOPROPYLTOLUENE
Concen: 6.01 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 367882

Ion	Ratio	Lower	Upper
134	100		
119	416.3	377.7	437.7

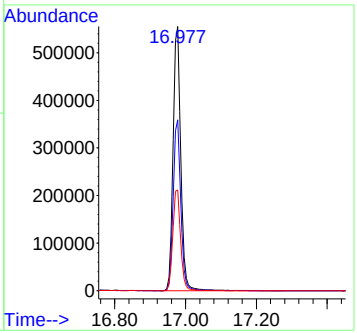


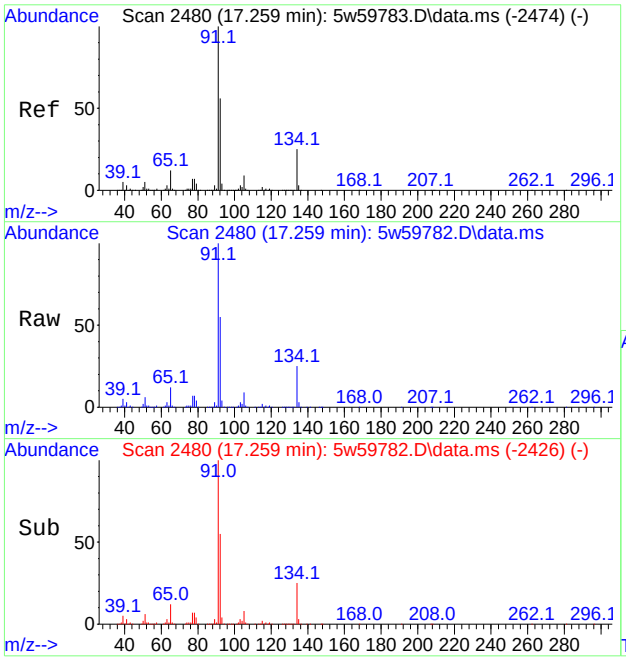


#103
o-DICHLOROBENZENE
Concen: 5.25 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 831952

Ion	Ratio	Lower	Upper
146	100		
148	64.2	34.3	94.3
111	39.5	9.2	69.2

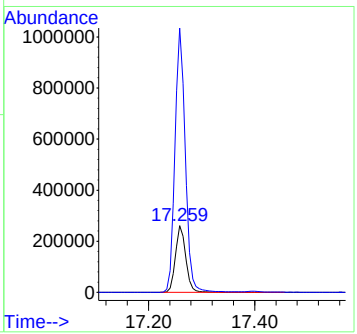


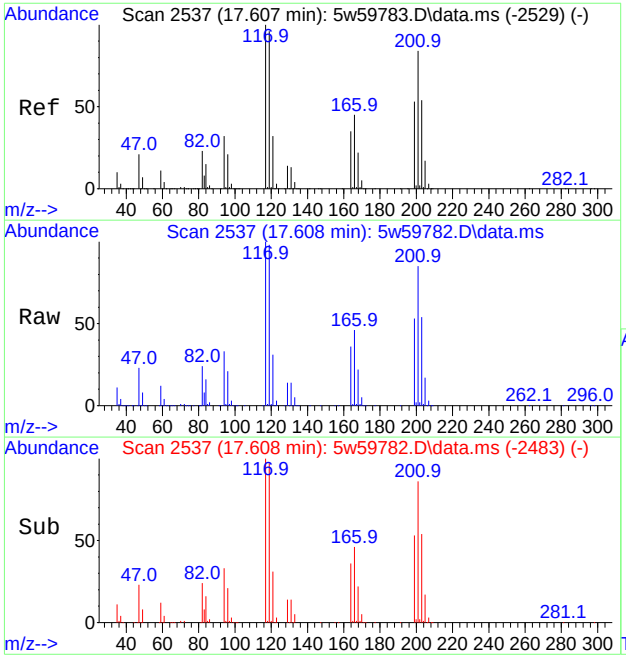


#104
n-BUTYLBENZENE
Concen: 6.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 353476

Ion	Ratio	Lower	Upper
134	100		
91	394.8	363.1	423.1

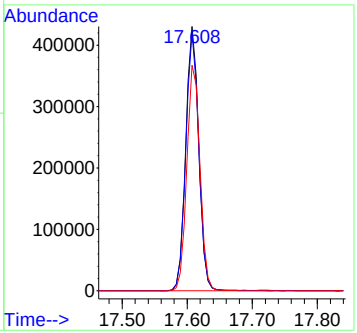


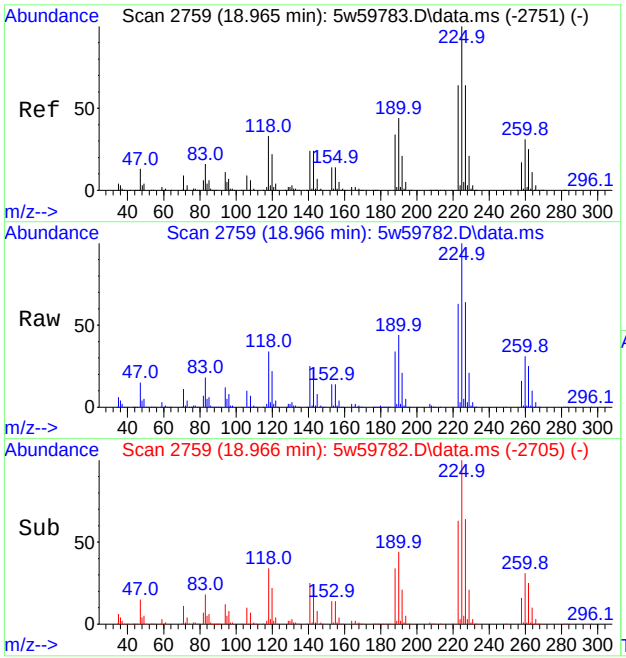


#105
HEXACHLOROETHANE
Concen: 5.71 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 597723

Ion	Ratio	Lower	Upper
117	100		
119	96.4	67.2	124.8
201	86.1	61.1	113.5

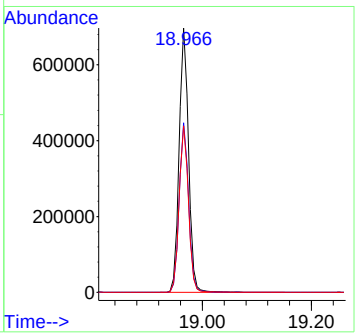


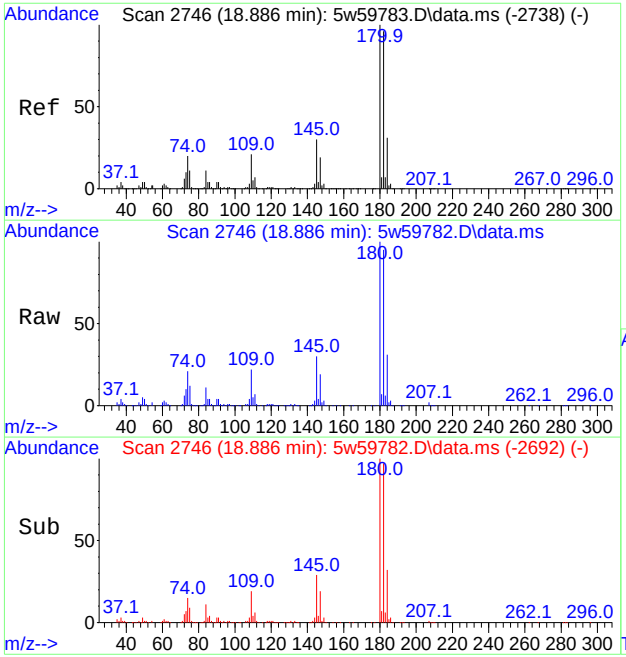


#106
HEXACHLOROBUTADIENE
Concen: 5.13 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:225 Resp: 827665

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	62.9	33.3	93.3

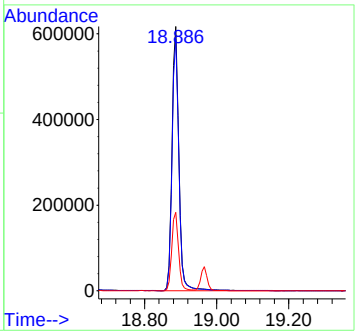


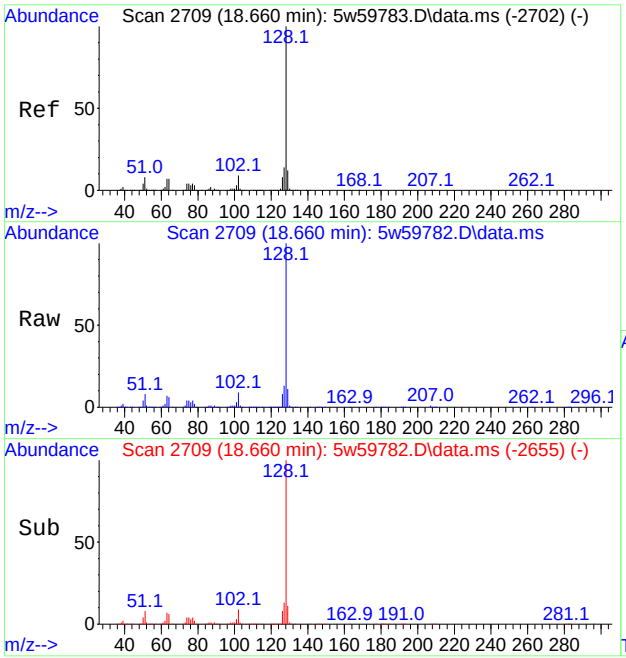


#107
1,2,4-TRICHLOROBENZENE
Concen: 7.16 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:180 Resp: 807736

Ion	Ratio	Lower	Upper
180	100		
182	95.5	65.4	125.4
145	29.5	0.0	59.4

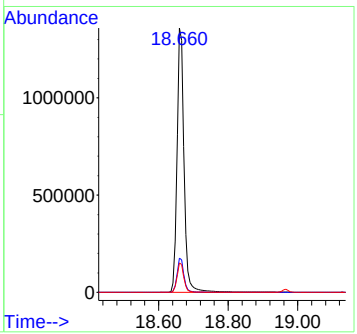


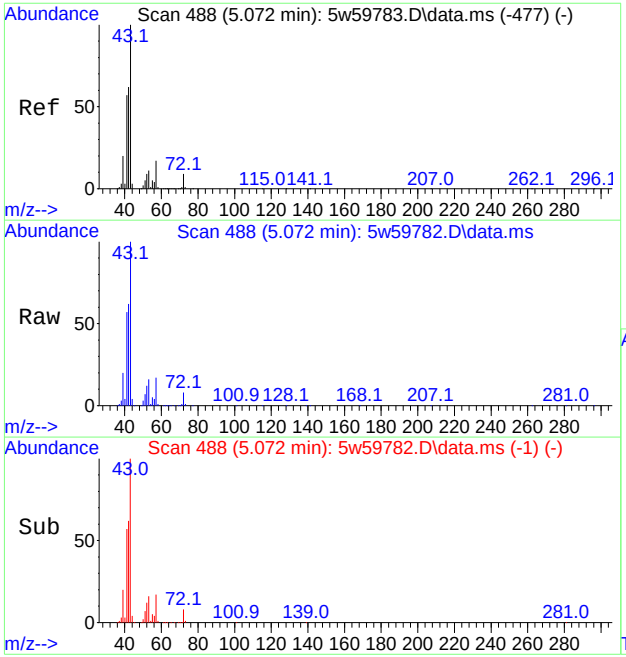


#108
NAPHTHALENE
Concen: 7.30 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:128 Resp: 1912544

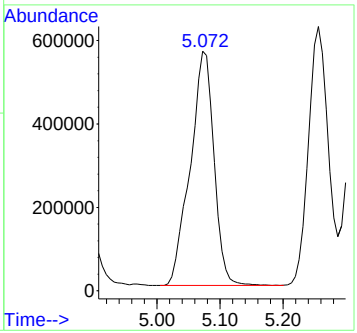
Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	43.3
129	11.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 4.29 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:TIC Resp: 1469674



7.7.5

7

Manual Integration Approval Summary

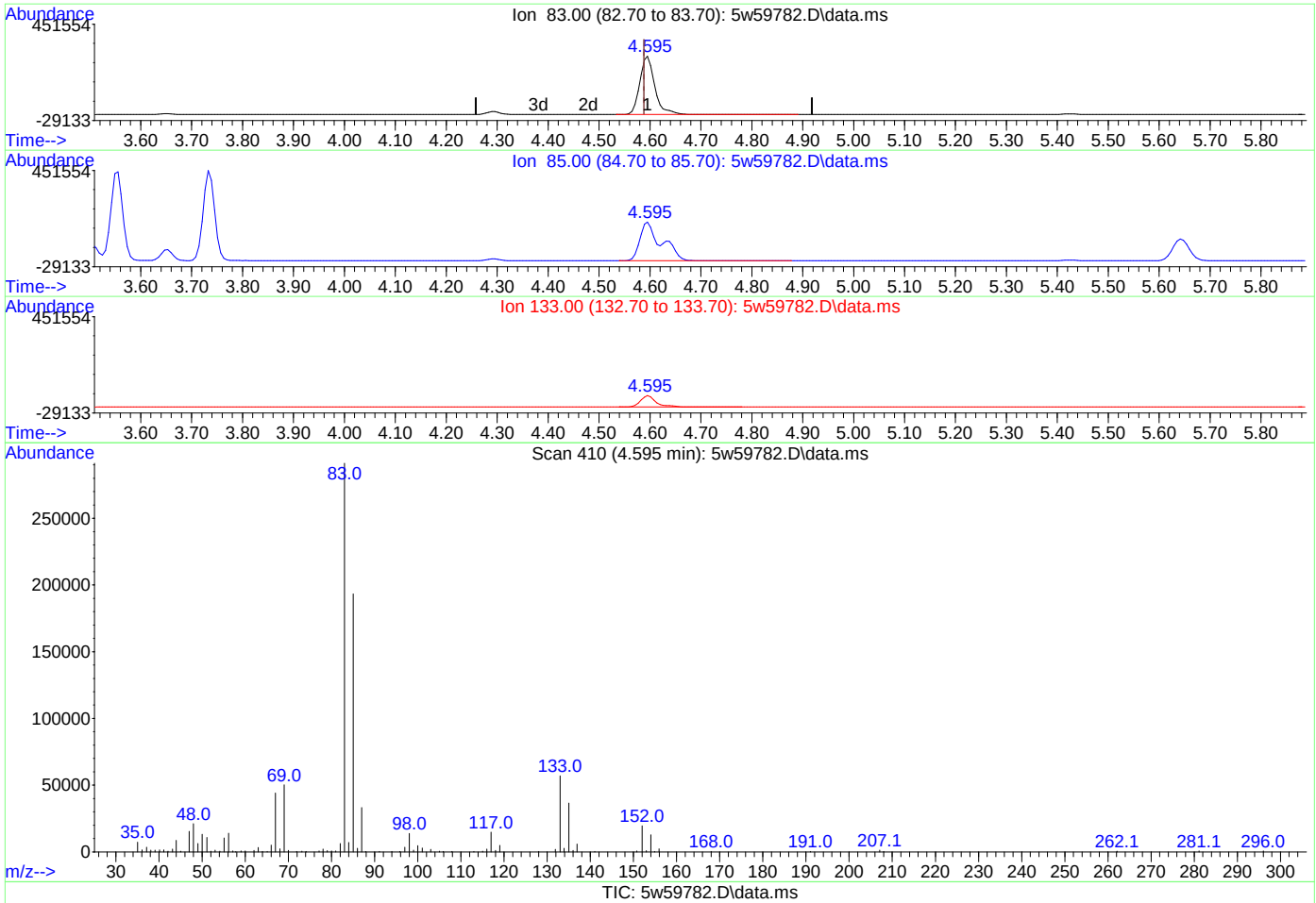
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59782.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 06:57 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.43	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV

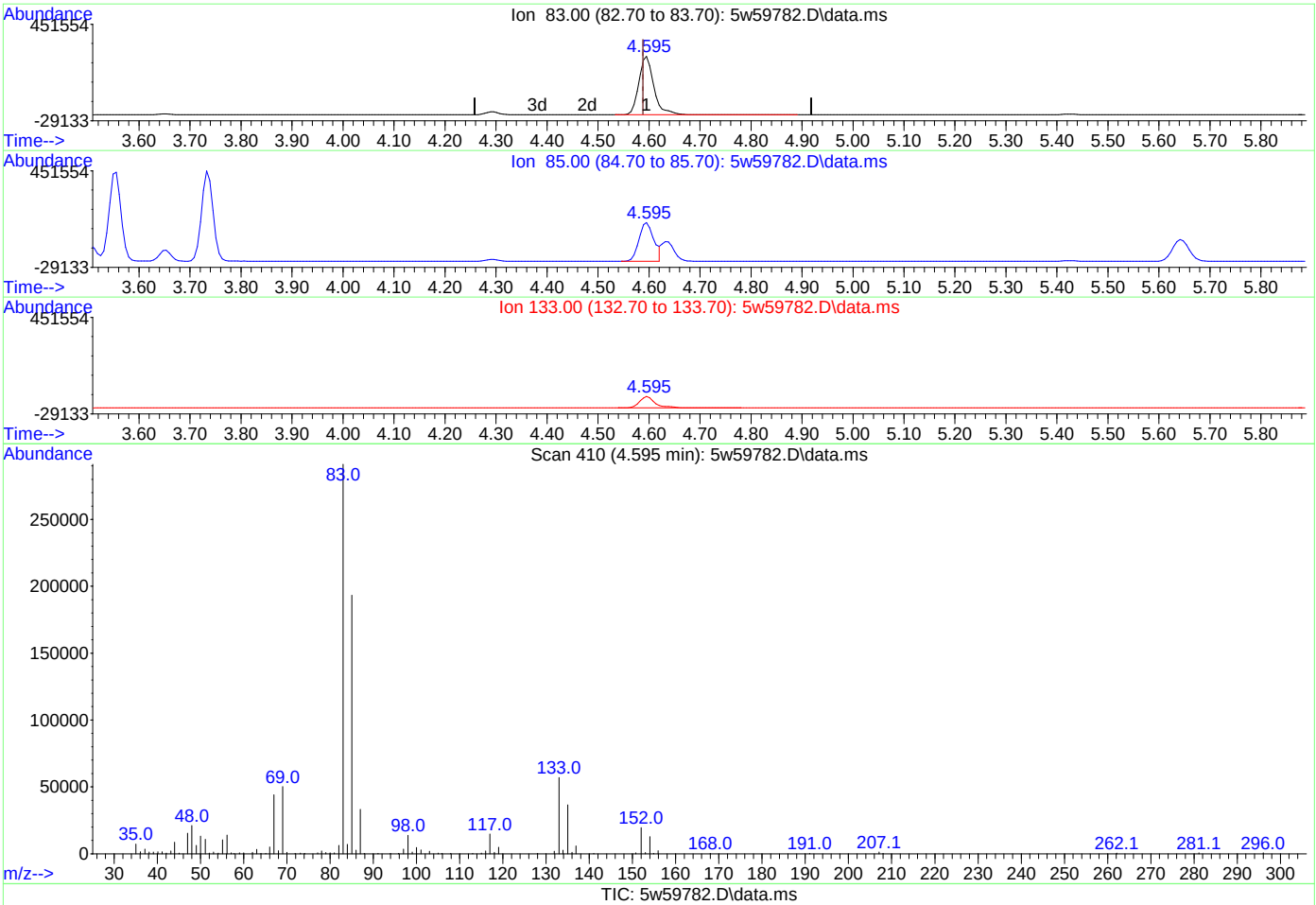
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.31#
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV m

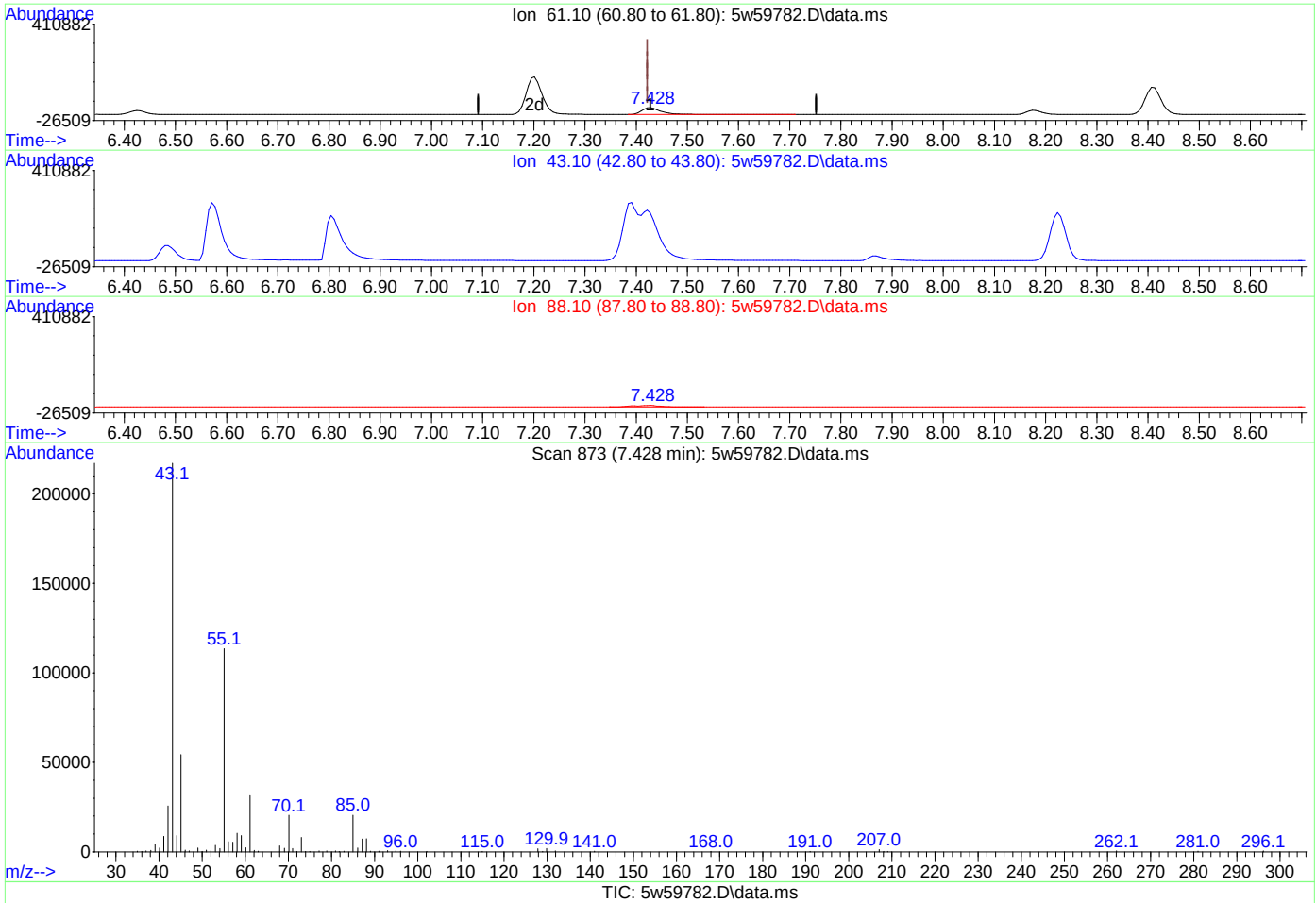
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.72
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV

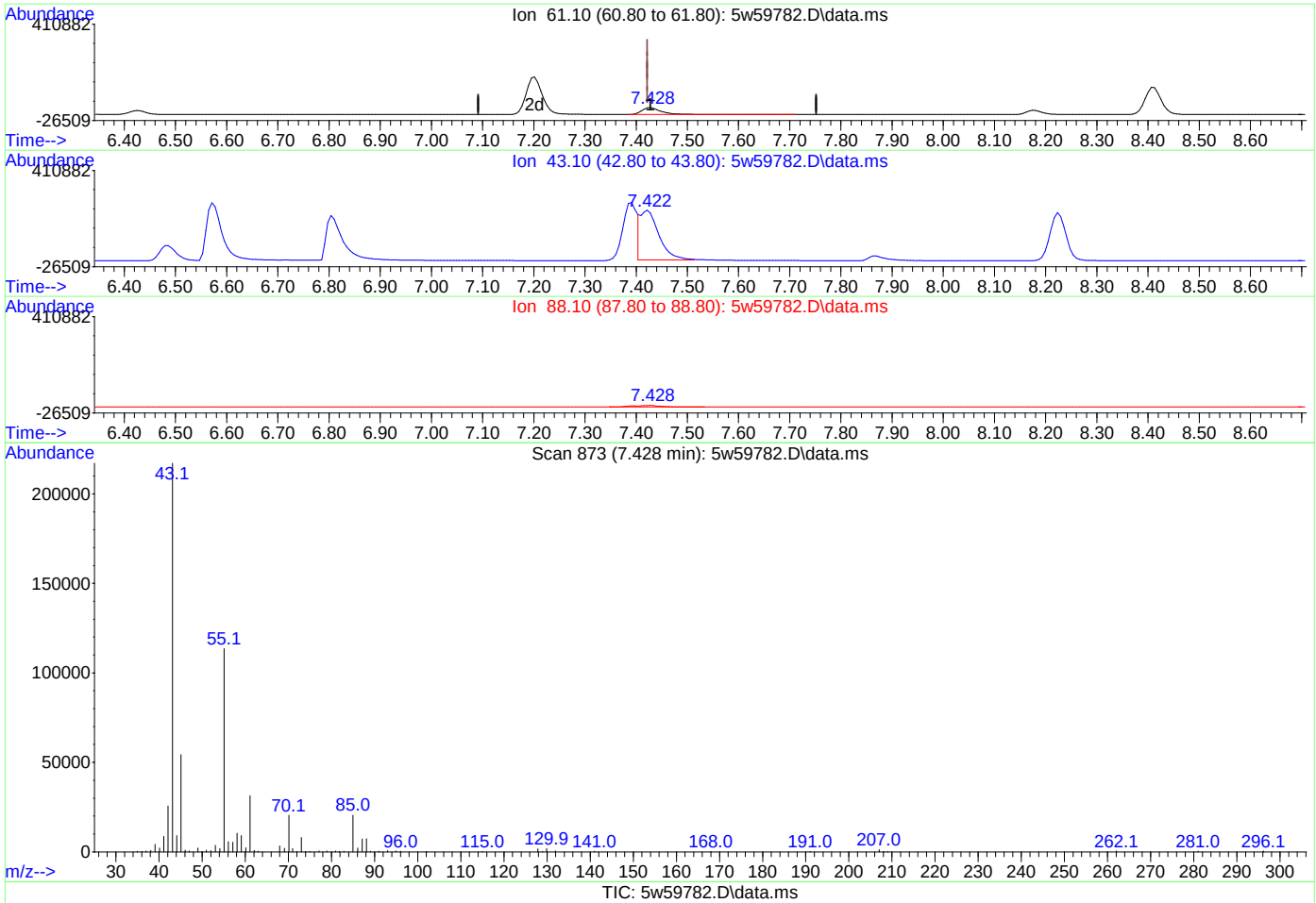
response 87258

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	32.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV m

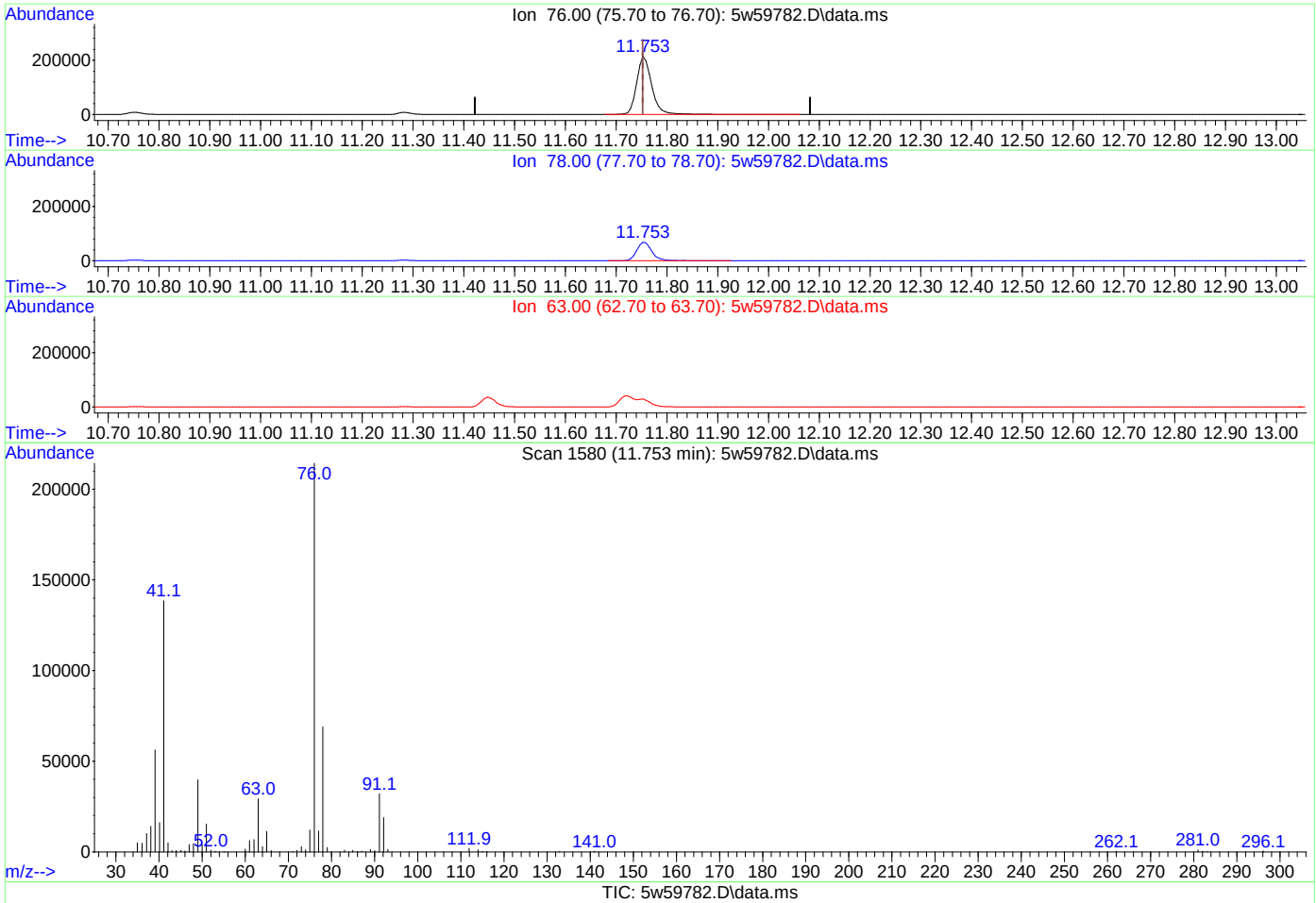
response 87258

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	636.36#
88.10	34.50	32.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV

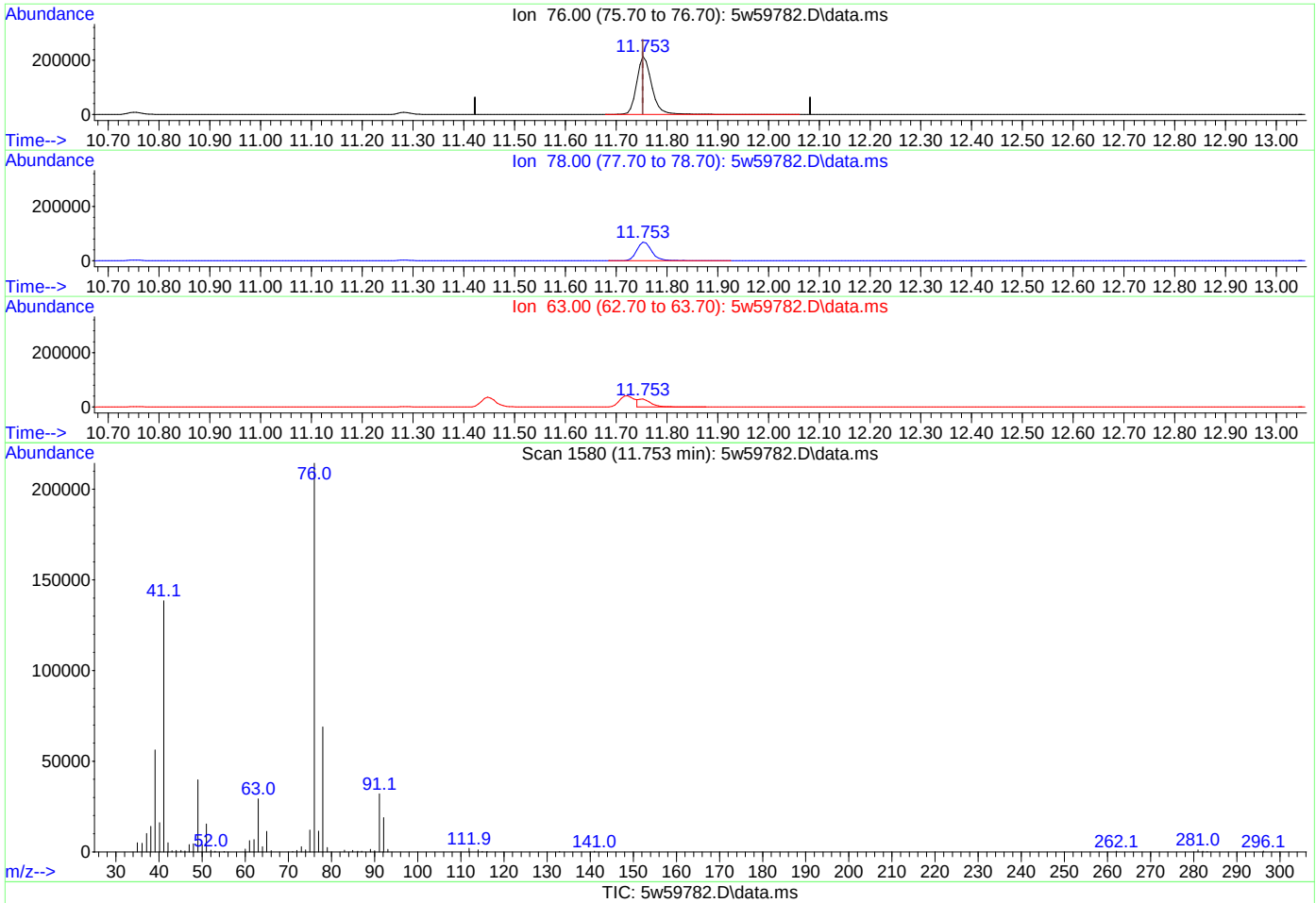
response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV m

response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	11.22
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	458592	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2019630	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1088548	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	459307	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1400456	10.41	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.10%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	318291	5.37	PPBV	100
3) FREON 152A	3.445	65	311212	8.83	PPBV	100
4) CHLORODIFLUOROMETHANE	3.475	67	154727	9.59	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.506	116	762524	10.03	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.549	85	1445515	9.55	PPBV	100
7) PROPYLENE	3.500	41	343468	8.81	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1103467	8.04	PPBV	100
9) FREON 114	3.732	85	1375524	10.56	PPBV	100
10) CHLOROMETHANE	3.665	52	141881	8.80	PPBV	100
11) VINYL CHLORIDE	3.818	62	472875	9.34	PPBV	100
12) 1,3-BUTADIENE	3.910	54	284232	8.35	PPBV	100
13) n-BUTANE	3.946	43	454503	7.37	PPBV	100
14) BROMOMETHANE	4.106	94	500092	10.05	PPBV	100
15) CHLOROETHANE	4.222	64	205309	8.90	PPBV	100
16) DICHLOROFLUOROMETHANE	4.289	67	1019855	8.67	PPBV	100
17) ACETONITRILE	4.479	41	252958	7.21	PPBV	100
18) ACROLEIN	4.571	56	155868	8.51	PPBV	100
19) FREON 123	4.589	83	1157483m	9.93	PPBV	
20) FREON 123A	4.632	117	701588	9.69	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1209415	7.29	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	906732	7.67	PPBV	100
23) ACETONE	4.675	58	180987	8.59	PPBV	100
24) PENTANE	5.072	42	444915	7.13	PPBV	100
25) IODOMETHANE	5.256	142	1538968	10.06	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	488317	8.97	PPBV	100
27) CARBON DISULFIDE	5.672	76	1343447	9.35	PPBV	100
28) ETHANOL	4.320	45	168471	7.22	PPBV	100
29) BROMOETHENE	4.479	106	508476	10.65	PPBV	100
30) ACRYLONITRILE	5.042	52	310247	8.54	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	424759	8.70	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	218615	9.74	PPBV	100
33) FREON 113	5.641	151	865046	9.06	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	496473	8.93	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.378	59	968852	8.31	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.479	73	1323434	9.62	PPBV	100
37) TETRAHYDROFURAN	7.856	72	199227	10.87	PPBV	100
38) HEXANE	7.385	57	758015	9.88	PPBV	100
39) VINYL ACETATE	6.565	86	82624	9.01	PPBV	100
40) 1,1-DICHLOROETHANE	6.424	63	931030	9.18	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	216147	11.31	PPBV	100
42) cis-1,2-DICHLOROETHYLENE	7.195	96	529578	9.24	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	234936	11.29	PPBV	100
44) ETHYL ACETATE	7.421	61	169787m	10.80	PPBV	
45) METHYL ACRYLATE	7.409	55	948651	10.40	PPBV	100
46) CHLOROFORM	7.476	83	1113306	9.51	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	877406	9.73	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.406	97	1165134	9.11	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1296040	9.17	PPBV	100
50)	1,2-DICHLOROETHANE	8.174	62	793795	9.55	PPBV	100
52)	BENZENE	8.853	78	1461752	10.93	PPBV	100
53)	CYCLOHEXANE	9.110	84	573806	10.80	PPBV	100
54)	2,3-DIMETHYLPENTANE	9.348	71	294377	10.99	PPBV	100
55)	TRICHLOROETHYLENE	9.887	95	733457	10.30	PPBV	100
56)	1,2-DICHLOROPROPANE	9.654	63	587338	10.35	PPBV	100
57)	DIBROMOMETHANE	9.630	174	777595	9.96	PPBV	100
58)	ETHYL ACRYLATE	9.679	55	1150308	11.15	PPBV	100
59)	BROMODICHLOROMETHANE	9.850	83	1291376	10.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2382864	10.46	PPBV	100
61)	1,4-DIOXANE	9.899	88	335180	12.16	PPBV	100
62)	HEPTANE	10.187	43	809108	9.62	PPBV	100
63)	METHYL METHACRYLATE	10.107	69	505563	12.20	PPBV	100
64)	METHYL ISOBUTYL KETONE	10.792	58	480676	11.29	PPBV	100
65)	cis-1,3-DICHLOROPROPENE	10.749	75	988291	11.23	PPBV	87
66)	TOLUENE	11.722	92	1078428	11.29	PPBV	100
67)	1,3-DICHLOROPROPANE	11.753	76	866163m	10.80	PPBV	
68)	trans-1,3-DICHLOROPROPENE	11.282	75	890794	11.02	PPBV	100
69)	1,1,2-TRICHLOROETHANE	11.447	83	593800	11.35	PPBV	100
71)	2-HEXANONE	12.010	58	708433	12.76	PPBV	100
72)	ETHYL METHACRYLATE	12.022	69	915611	13.03	PPBV	100
73)	TETRACHLOROETHYLENE	12.872	164	851797	10.39	PPBV	100
74)	DIBROMOCHLOROMETHANE	12.150	129	1470928	10.66	PPBV	100
75)	1,2-DIBROMOETHANE	12.395	107	1182589	11.73	PPBV	100
76)	OCTANE	12.744	43	1128893	9.72	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	951903	10.52	PPBV	100
78)	CHLOROBENZENE	13.582	112	1532486	10.30	PPBV	100
79)	ETHYLBENZENE	13.986	91	2426187	11.38	PPBV	100
80)	m,p-XYLENE	14.181	106	1894377	23.39	PPBV	100
81)	o-XYLENE	14.683	106	921132	12.40	PPBV	100
82)	STYRENE	14.567	104	1485661	13.06	PPBV	100
83)	NONANE	14.934	43	1167938	10.14	PPBV	100
84)	BROMOFORM	14.249	173	1553327	10.92	PPBV	100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1606320	12.27	PPBV	100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1108756	9.96	PPBV	100
88)	ISOPROPYLBENZENE	15.295	105	2737713	11.04	PPBV	100
89)	BROMOBENZENE	15.374	77	1323542	10.19	PPBV	100
90)	2-CHLOROTOLUENE	15.772	126	723050	10.93	PPBV	100
91)	n-PROPYLBENZENE	15.809	120	754817	11.44	PPBV	100
92)	4-ETHYLTOLUENE	15.962	105	2719805	12.20	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2300675	11.13	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.194	118	1195904	12.09	PPBV	100
95)	tert-BUTYLBENZENE	16.433	134	523380	12.22	PPBV	100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2423323	12.17	PPBV	100
97)	m-DICHLOROBENZENE	16.580	146	1782947	11.15	PPBV	100
98)	BENZYL CHLORIDE	16.567	91	2316167	12.73	PPBV	100
99)	p-DICHLOROBENZENE	16.647	146	1775311	10.72	PPBV	100
100)	sec-BUTYLBENZENE	16.696	134	618616	11.27	PPBV	100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2427524	11.39	PPBV	100
102)	p-ISOPROPYLTOLUENE	16.855	134	746734	11.87	PPBV	100
103)	o-DICHLOROBENZENE	16.977	146	1665215	10.31	PPBV	100
104)	n-BUTYLBENZENE	17.259	134	703045	12.21	PPBV	100
105)	HEXACHLOROETHANE	17.607	117	1210974	11.22	PPBV	100
106)	HEXACHLOROBUTADIENE	18.965	225	1667734	9.84	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1638870	14.54	PPBV	100
108)	NAPHTHALENE	18.660	128	3829842	14.35	PPBV	100
110)	TVHC as equiv Pentane	5.072	TIC	2959189	8.08	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

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

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

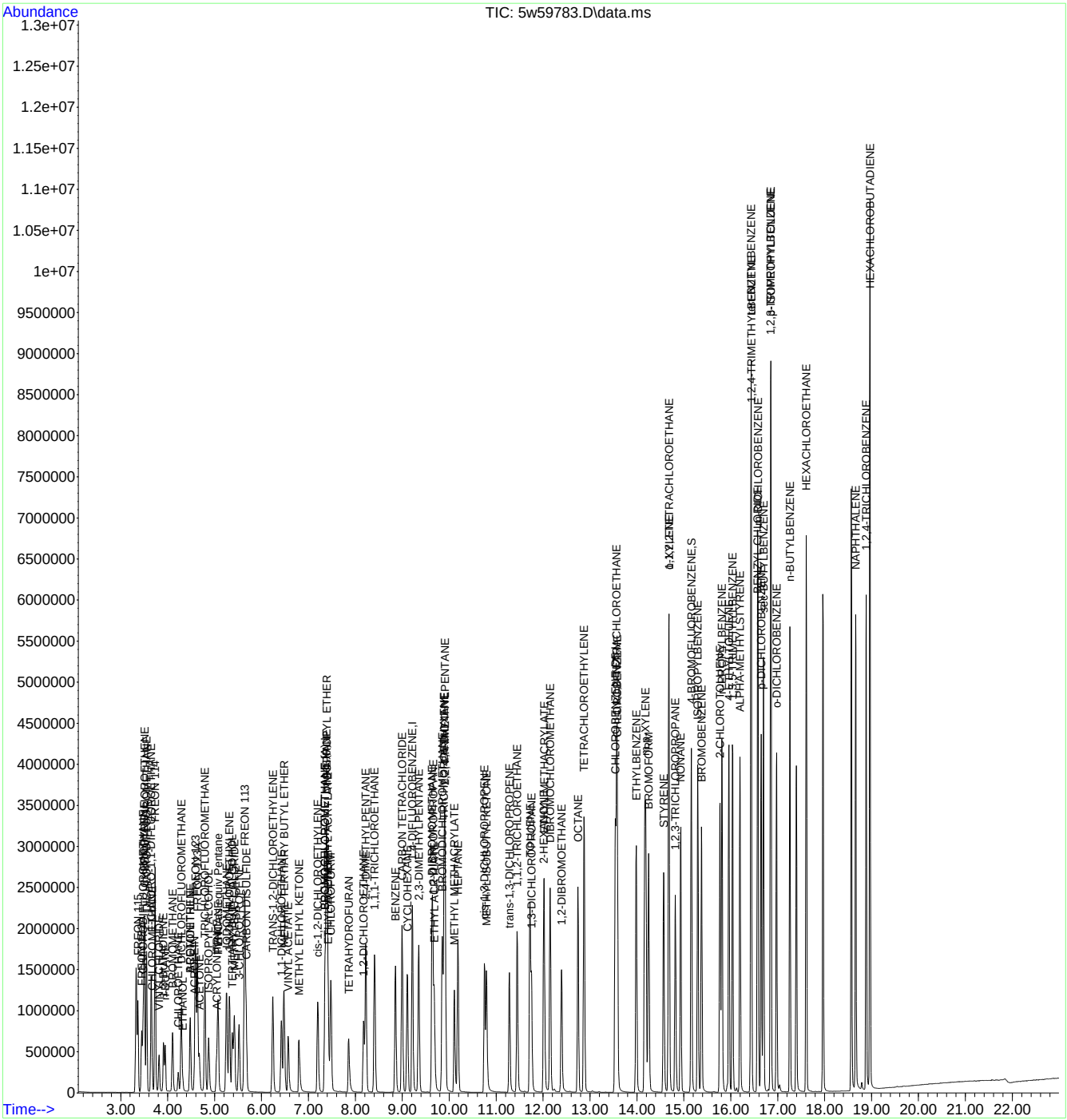
7.7.6

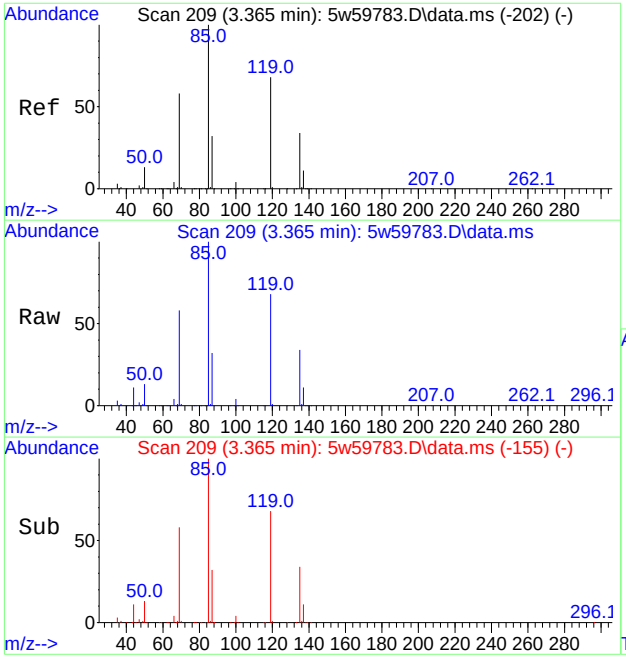
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

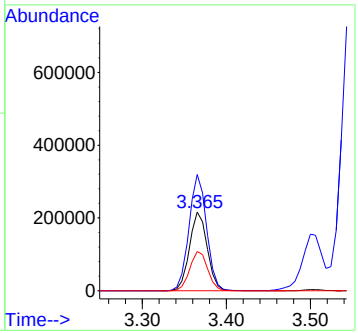


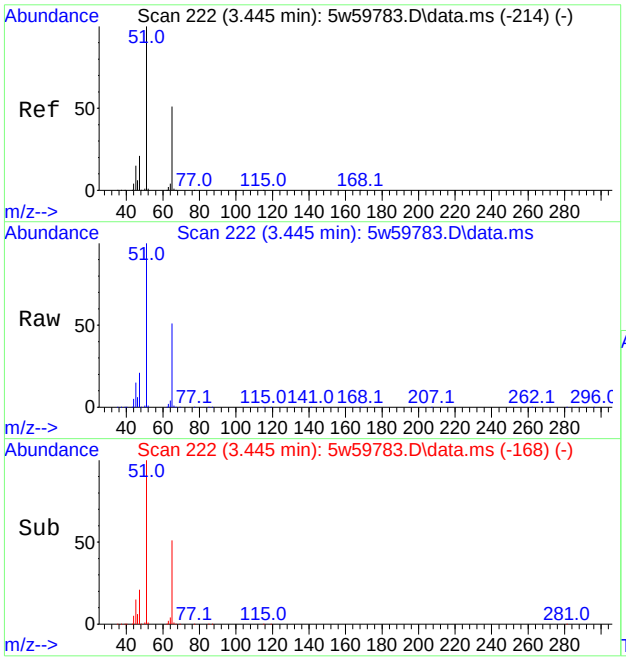


#2
FREON 115
Concen: 5.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:119 Resp: 318291

Ion	Ratio	Lower	Upper
119	100		
85	146.2	116.2	176.2
135	50.6	20.6	80.6

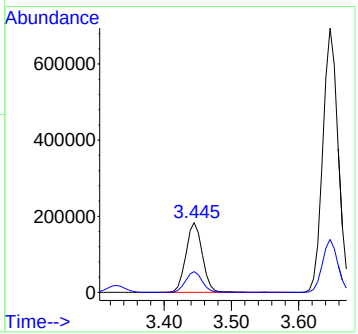


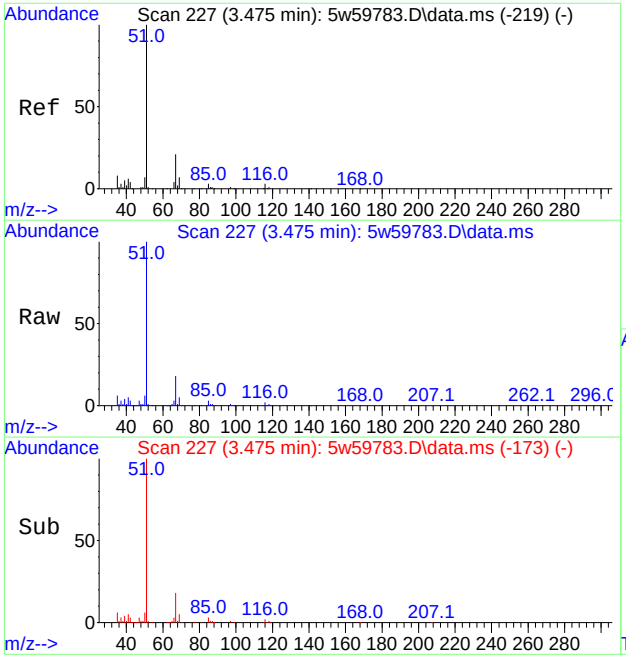


#3
FREON 152A
Concen: 8.83 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 311212

Ion	Ratio	Lower	Upper
65	100		
45	30.0	0.0	60.0

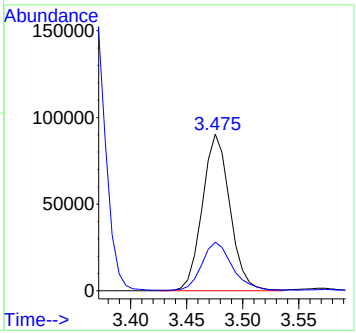


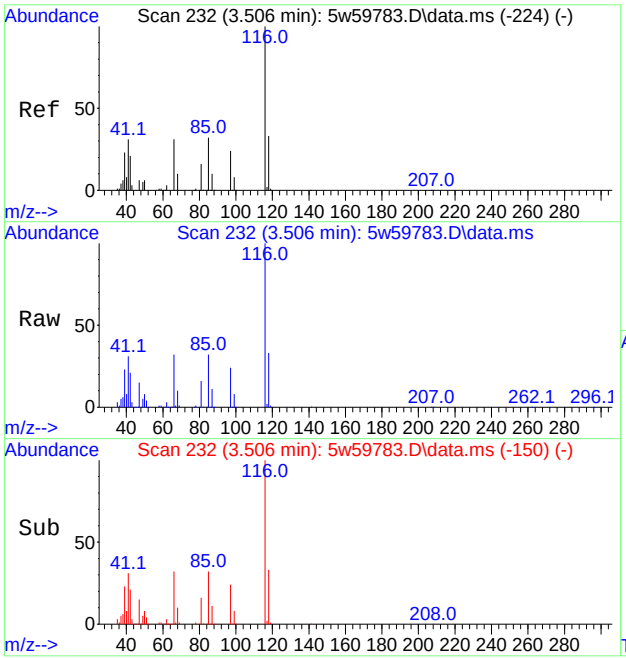


#4
CHLORODIFLUOROMETHANE
Concen: 9.59 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 154727

Ion	Ratio	Lower	Upper
67	100		
69	31.0	1.0	61.0

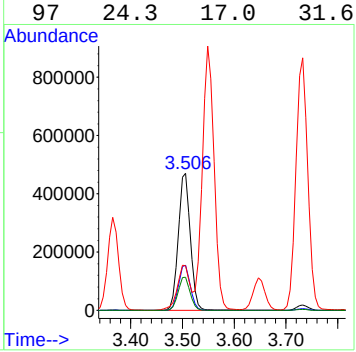


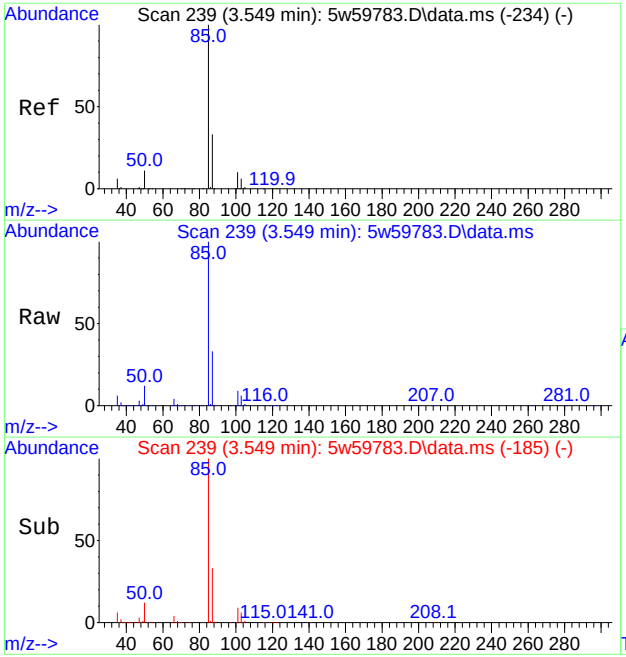


#5
CHLOROTRIFLUOROETHENE
Concen: 10.03 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:116 Resp: 762524

Ion	Ratio	Lower	Upper
116	100		
118	32.7	22.9	42.5
85	33.9	23.7	44.1
97	24.3	17.0	31.6

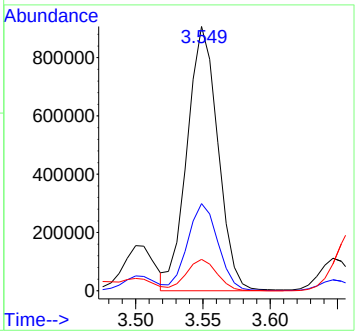


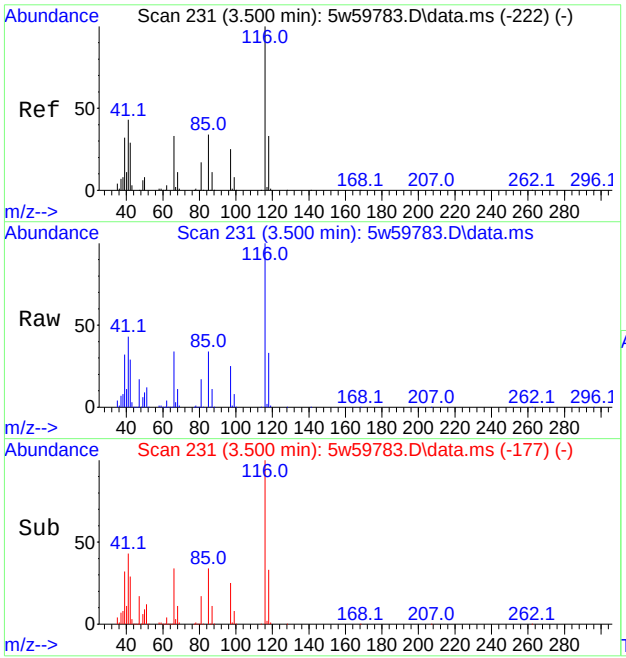


#6
DICHLORODIFLUOROMETHANE
Concen: 9.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1445515

Ion	Ratio	Lower	Upper
85	100		
87	32.5	2.5	62.5
50	11.7	0.0	41.7

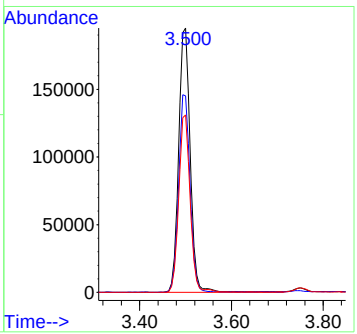


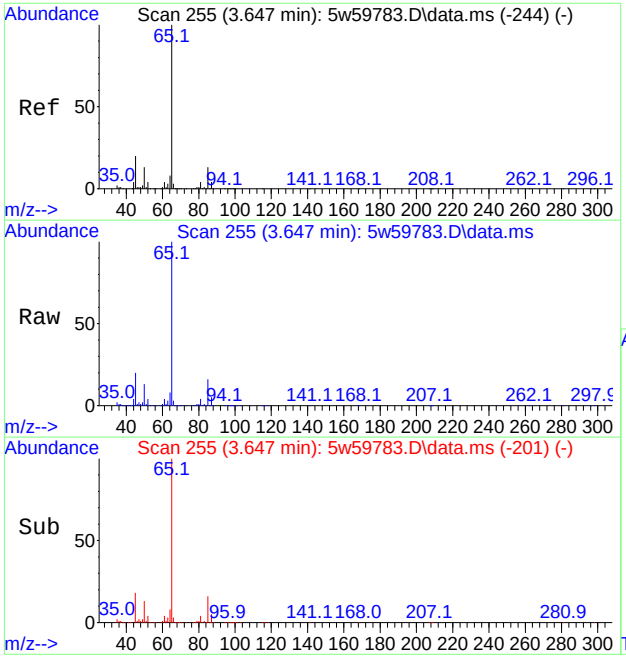


#7
PROPYLENE
Concen: 8.81 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 343468

Ion	Ratio	Lower	Upper
41	100		
39	75.1	45.1	105.1
42	66.3	36.3	96.3

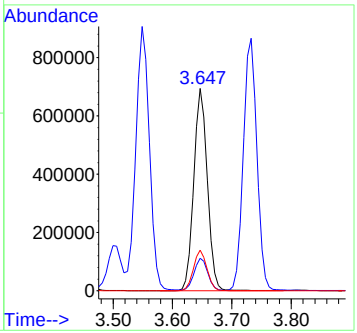


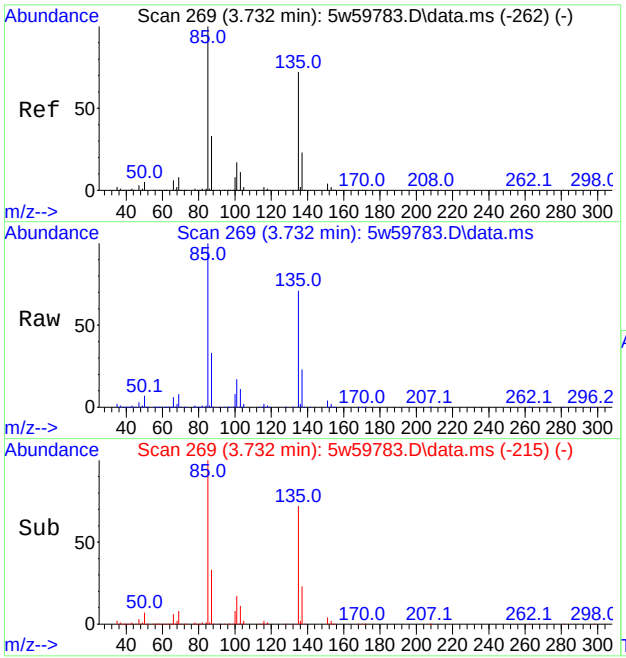


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 8.04 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 1103467

Ion	Ratio	Lower	Upper
65	100		
85	16.4	11.3	21.1
45	20.0	14.0	26.0

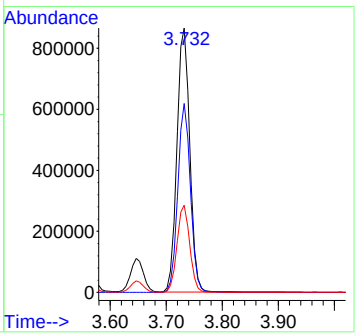


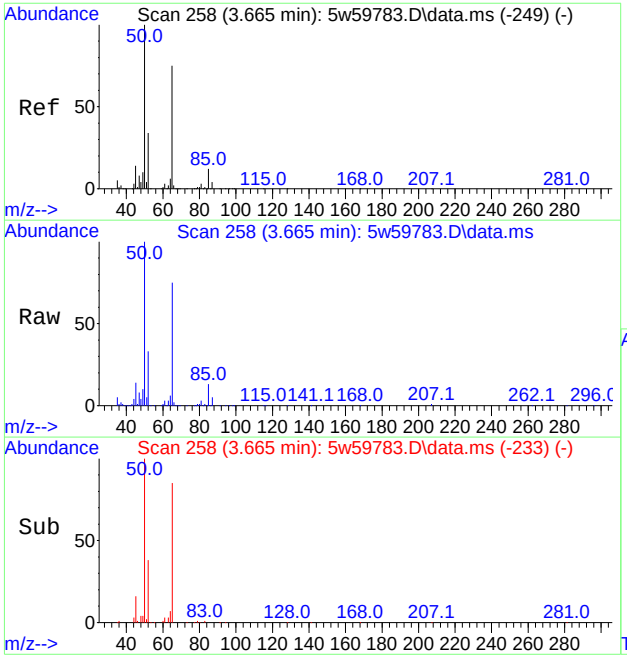


#9
FREON 114
Concen: 10.56 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1375524

Ion	Ratio	Lower	Upper
85	100		
135	70.5	40.5	100.5
87	33.0	3.0	63.0

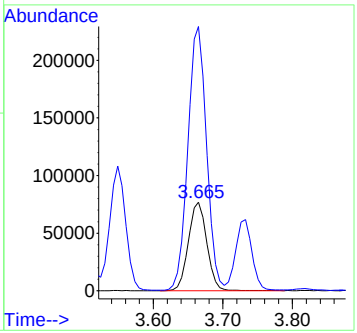


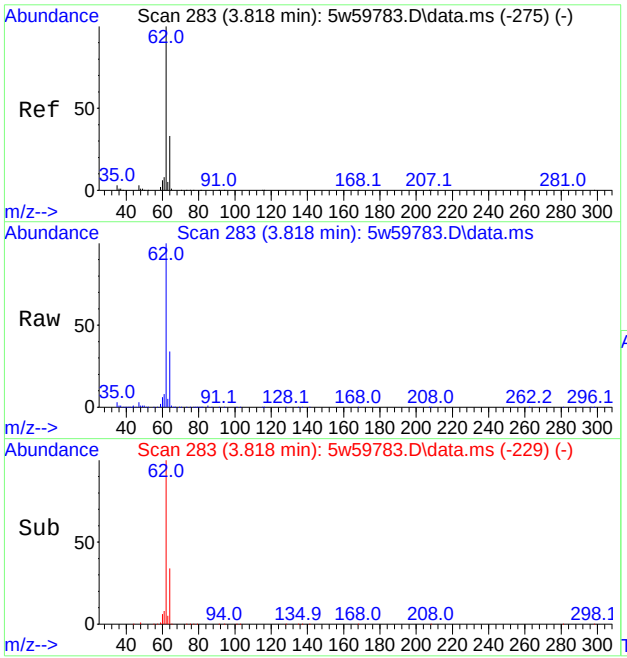


#10
CHLOROMETHANE
Concen: 8.80 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 141881

Ion	Ratio	Lower	Upper
52	100		
50	297.9	267.9	327.9

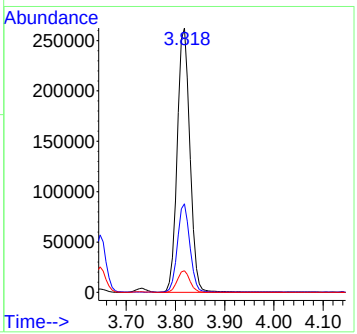


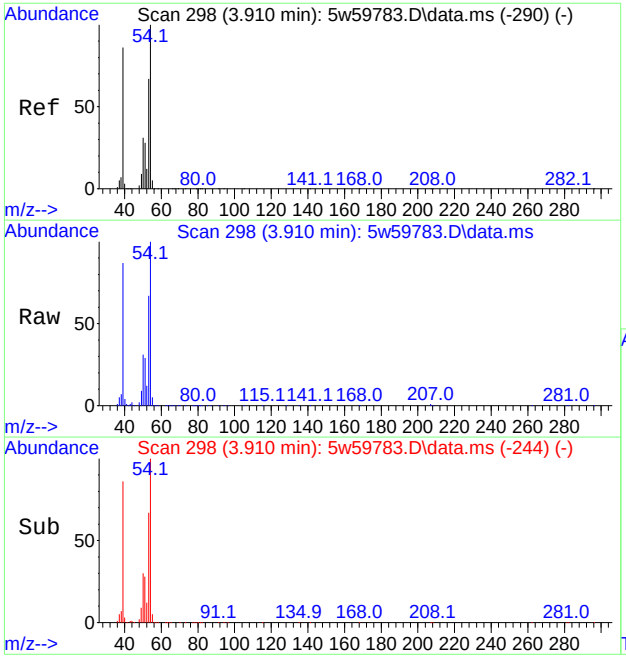


#11
VINYL CHLORIDE
Concen: 9.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 472875

Ion	Ratio	Lower	Upper
62	100		
64	33.6	3.6	63.6
61	8.2	0.0	38.2

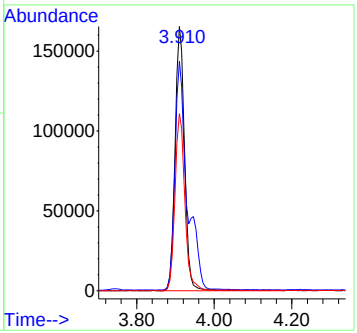


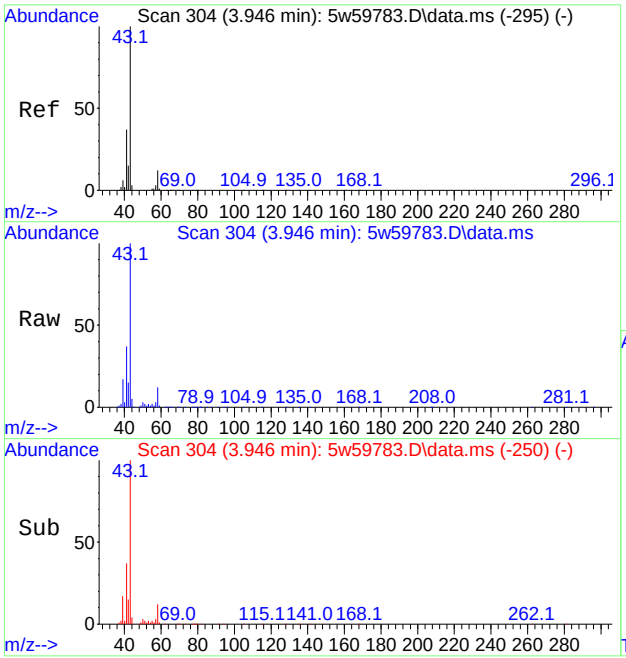


#12
1,3-BUTADIENE
Concen: 8.35 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 54 Resp: 284232

Ion	Ratio	Lower	Upper
54	100		
39	112.0	82.0	142.0
53	70.2	40.2	100.2

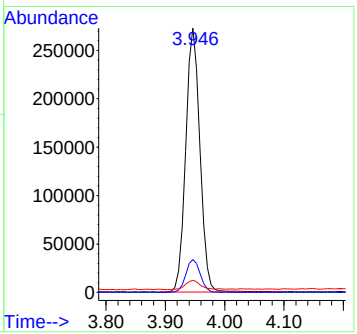


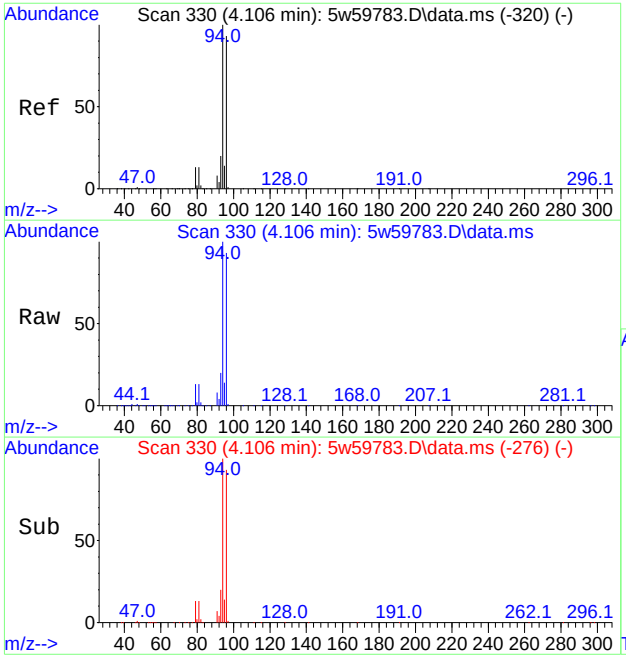


#13
n-BUTANE
Concen: 7.37 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 454503

Ion	Ratio	Lower	Upper
43	100		
58	12.6	0.0	42.6
44	4.9	0.0	34.9

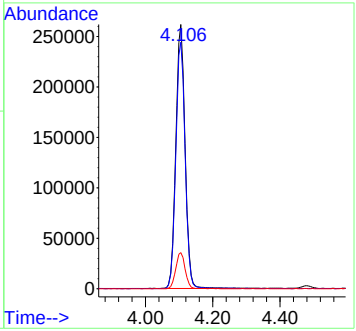


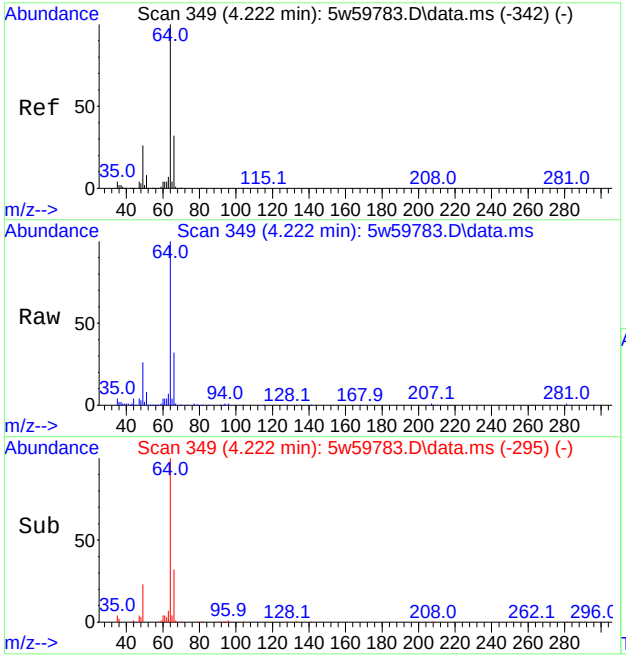


#14
BROMOMETHANE
Concen: 10.05 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 94 Resp: 500092

Ion	Ratio	Lower	Upper
94	100		
96	95.3	65.3	125.3
95	14.1	0.0	44.1

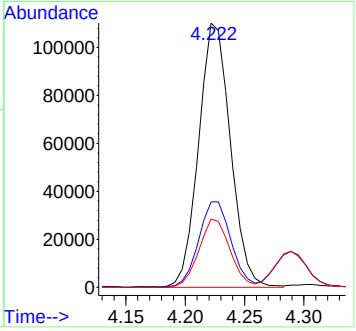


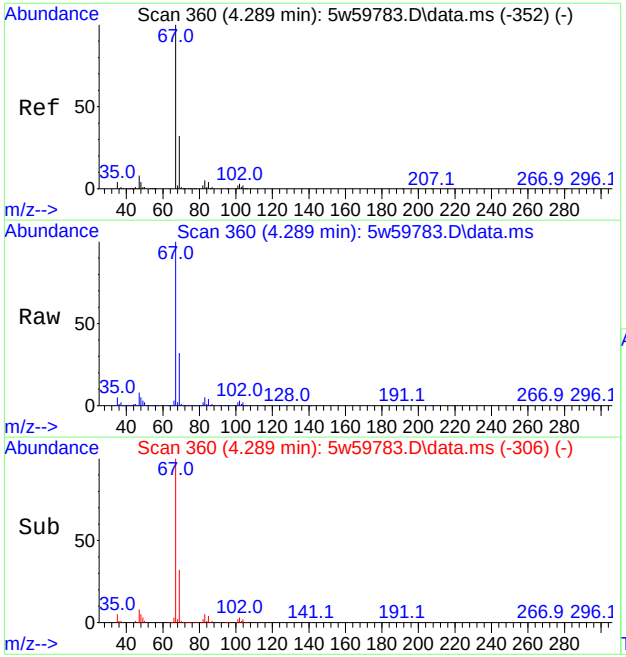


#15
CHLOROETHANE
Concen: 8.90 PPBV
RT: 4.222 min Scan# 349
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 64 Resp: 205309

Ion	Ratio	Lower	Upper
64	100		
66	33.1	3.1	63.1
49	25.3	0.0	55.3

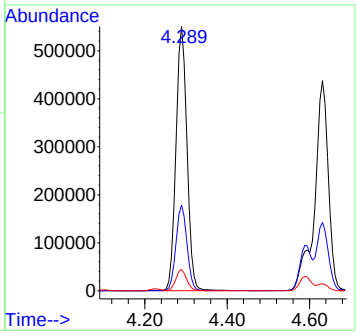


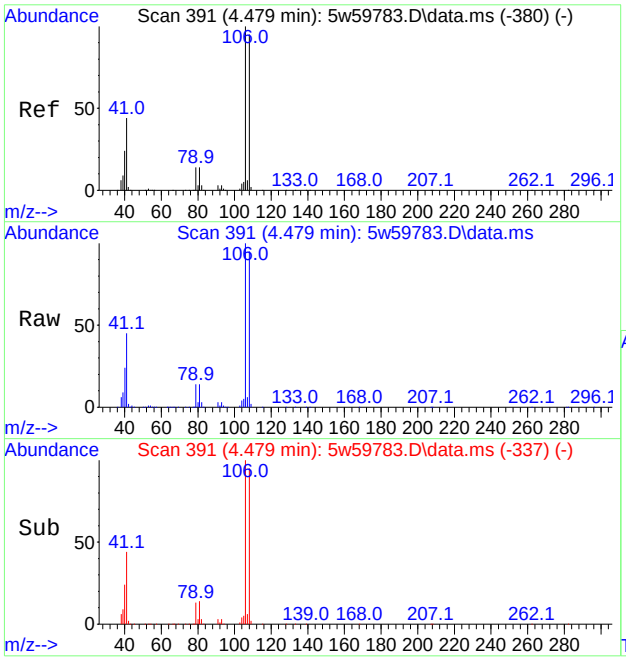


#16
DICHLOROFLUOROMETHANE
Concen: 8.67 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 1019855

Ion	Ratio	Lower	Upper
67	100		
69	32.5	22.7	42.3
47	8.0	5.6	10.4

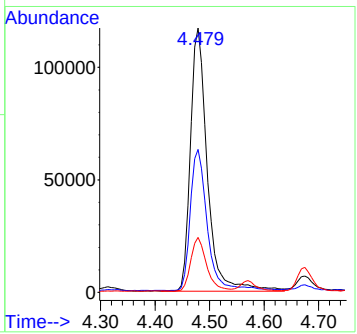


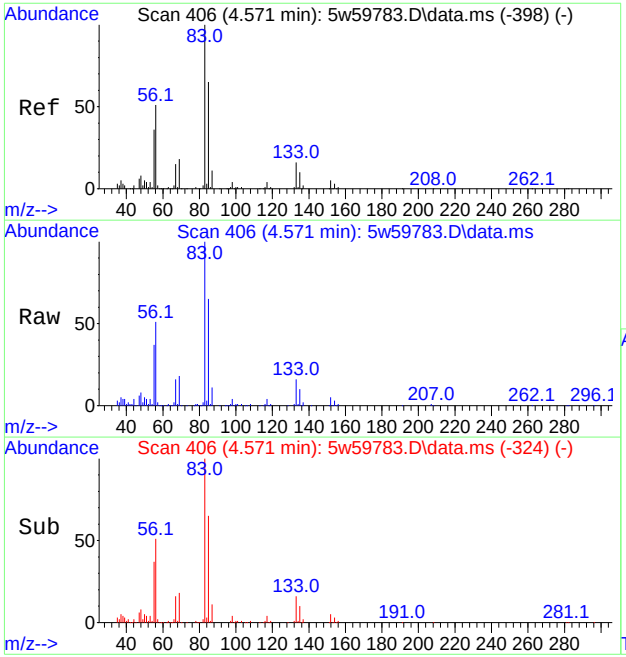


#17
ACETONITRILE
Concen: 7.21 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 252958

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.1	13.4	24.8

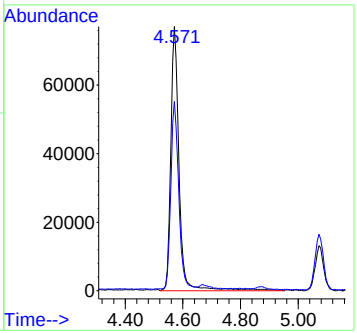


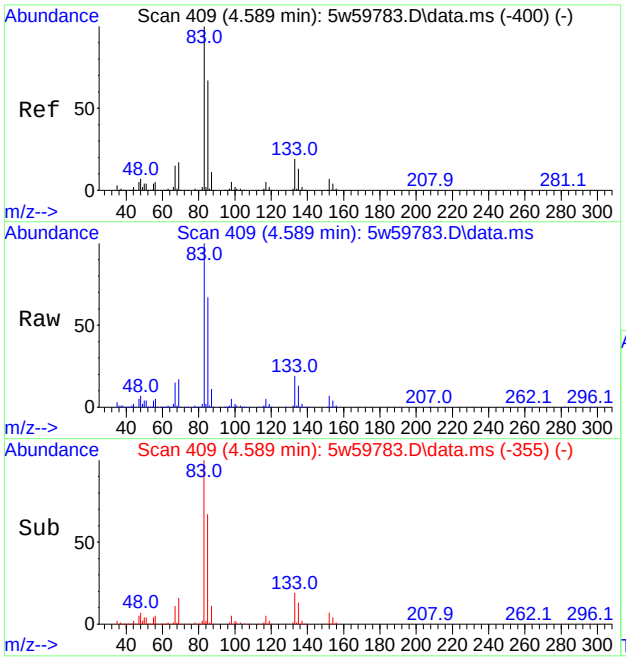


#18
ACROLEIN
Concen: 8.51 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 56 Resp: 155868

Ion	Ratio	Lower	Upper
56	100		
55	66.6	46.6	86.6

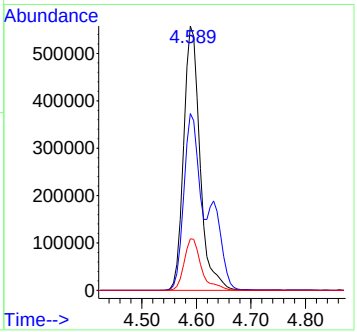


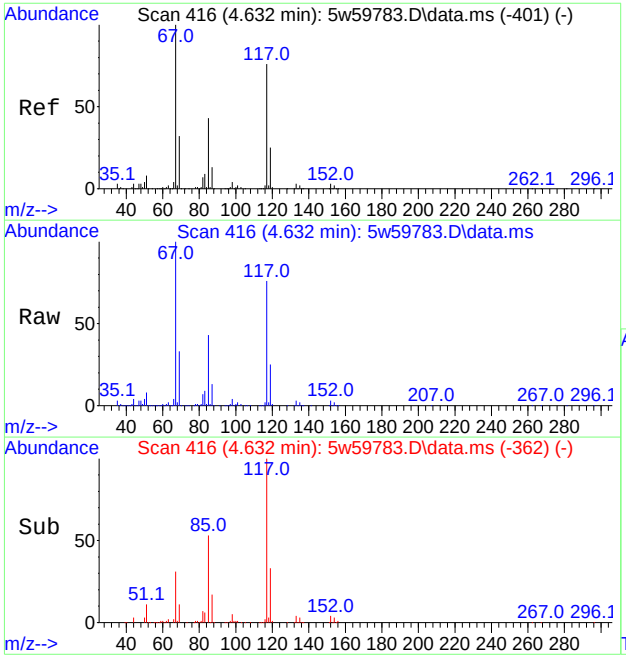


#19
FREON 123
Concen: 9.93 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1157483

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.0	94.0
133	20.7	0.0	50.7

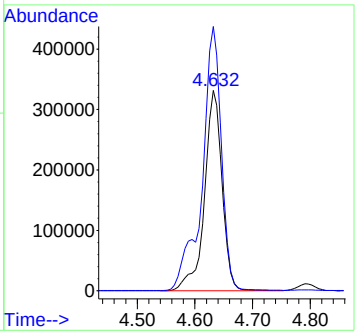


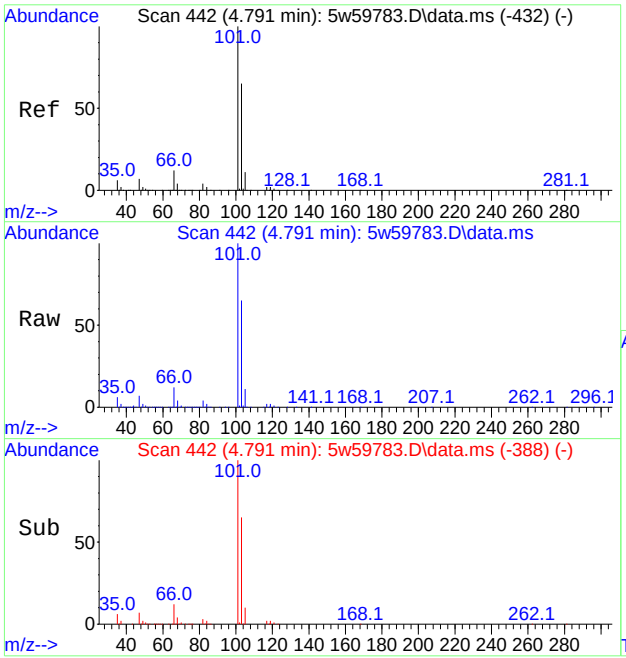


#20
FREON 123A
Concen: 9.69 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 701588

Ion	Ratio	Lower	Upper
117	100		
67	144.6	114.6	174.6

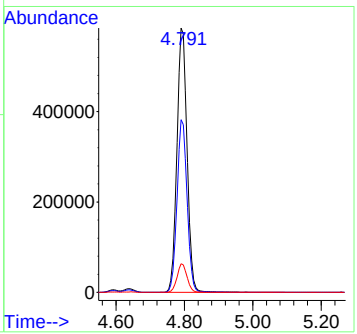




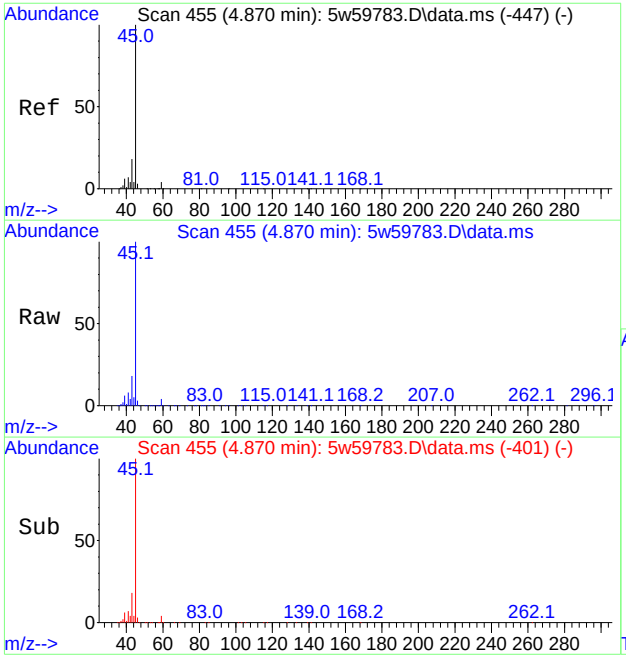
#21
TRICHLOROFLUOROMETHANE
Concen: 7.29 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:101 Resp: 1209415

Ion	Ratio	Lower	Upper
101	100		
103	65.0	35.0	95.0
105	10.7	0.0	40.7



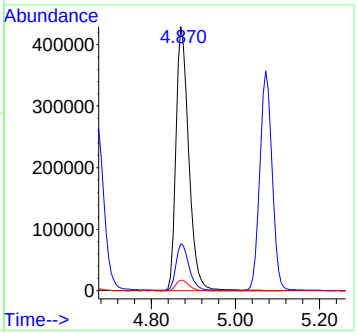
7.7.6

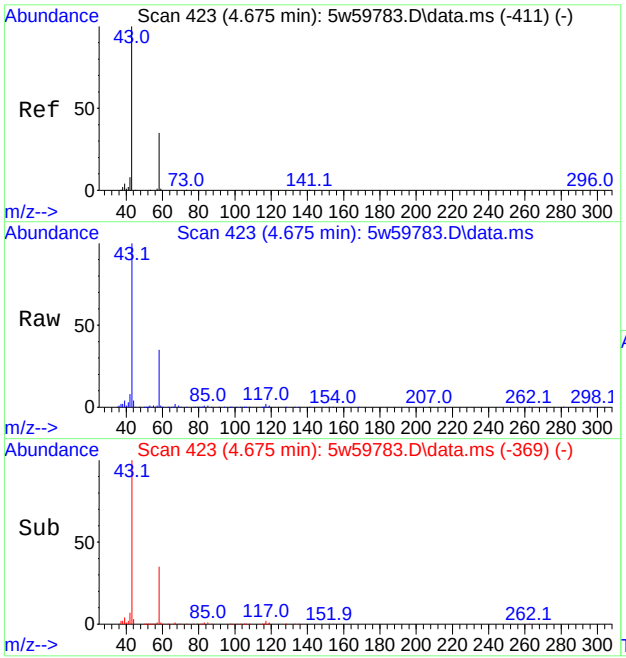


#22
ISOPROPYL ALCOHOL
Concen: 7.67 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 906732

Ion	Ratio	Lower	Upper
45	100		
43	17.8	0.0	47.8
59	4.1	0.0	34.1

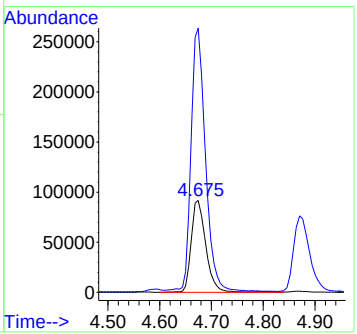


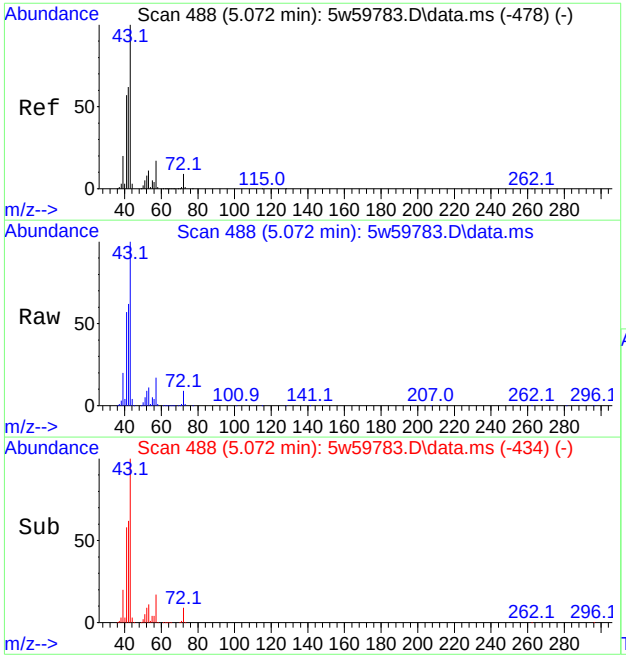


#23
ACETONE
Concen: 8.59 PPBV
RT: 4.675 min Scan# 423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 180987

Ion	Ratio	Lower	Upper
58	100		
43	282.3	252.1	312.1

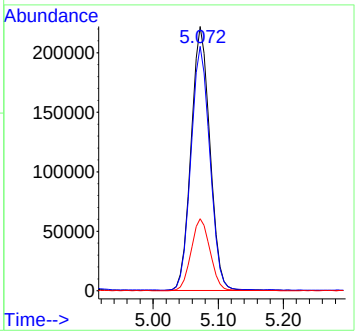


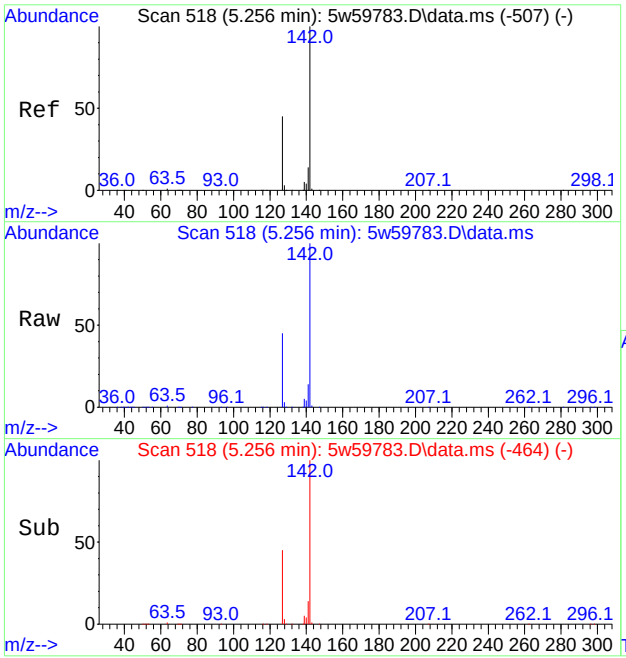


#24
PENTANE
Concen: 7.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 42 Resp: 444915

Ion	Ratio	Lower	Upper
42	100		
41	92.3	62.3	122.3
57	27.7	0.0	57.7

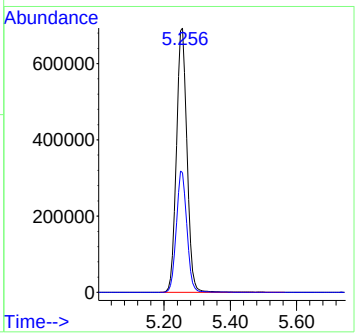


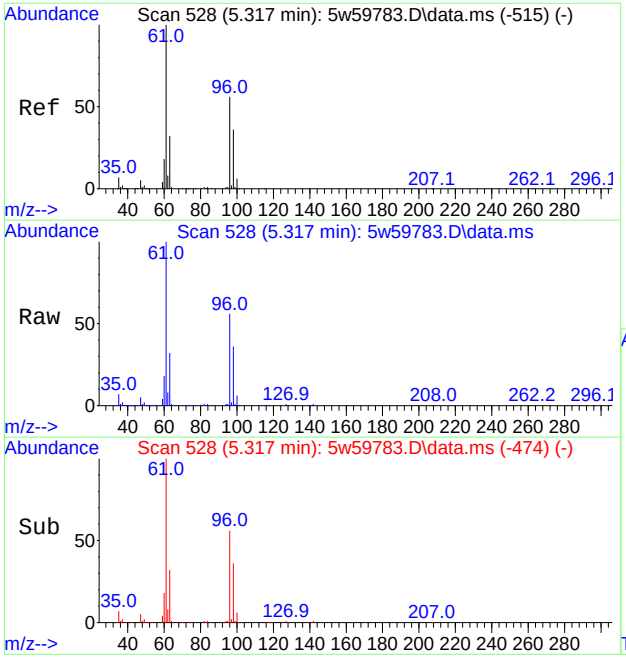


#25
IODOMETHANE
Concen: 10.06 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:142 Resp: 1538968

Ion	Ratio	Lower	Upper
142	100		
127	46.0	16.0	76.0

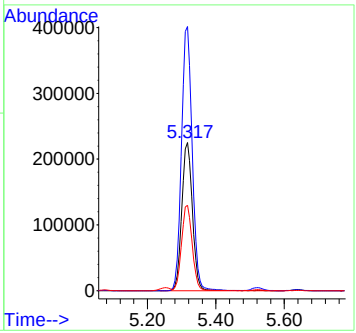


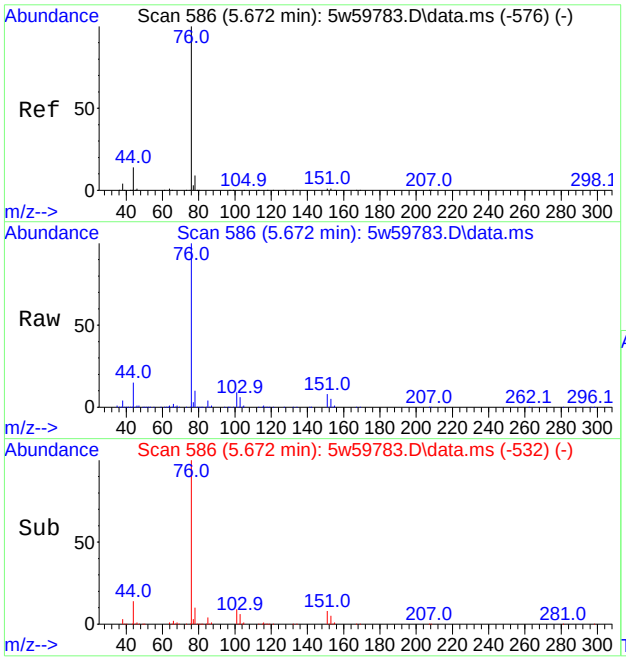


#26
1,1-DICHLOROETHYLENE
Concen: 8.97 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 488317

Ion	Ratio	Lower	Upper
96	100		
61	178.5	148.5	208.5
63	57.4	27.4	87.4

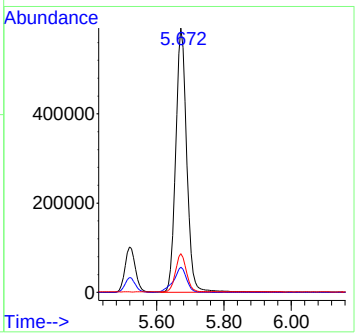


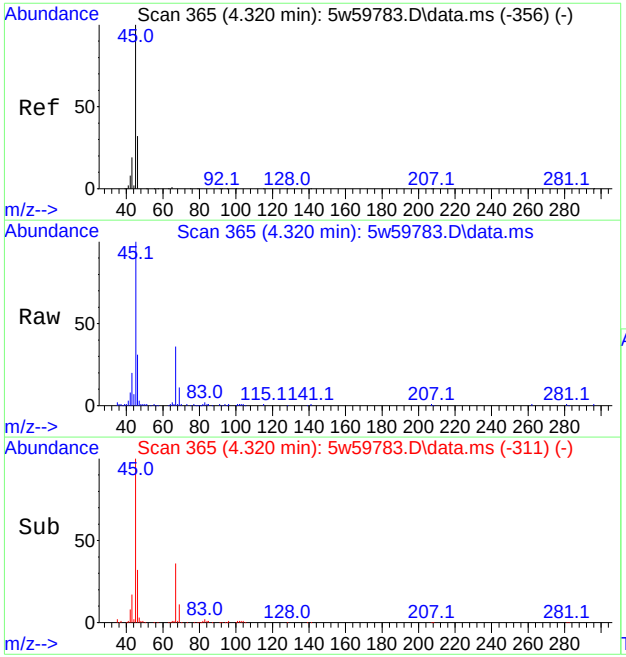


#27
CARBON DISULFIDE
Concen: 9.35 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 1343447

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

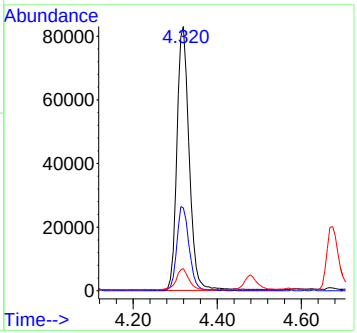


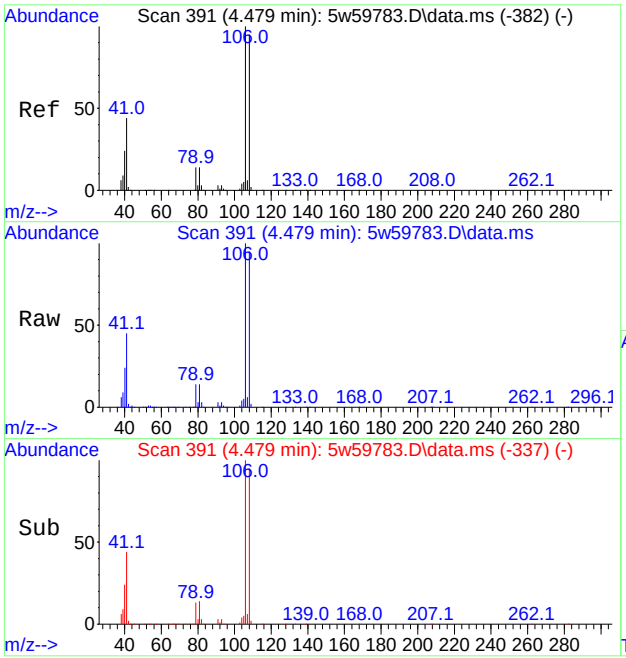


#28
ETHANOL
Concen: 7.22 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 168471

Ion	Ratio	Lower	Upper
45	100		
46	32.0	2.0	62.0
42	8.5	0.0	38.5

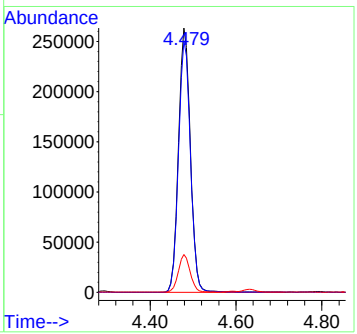


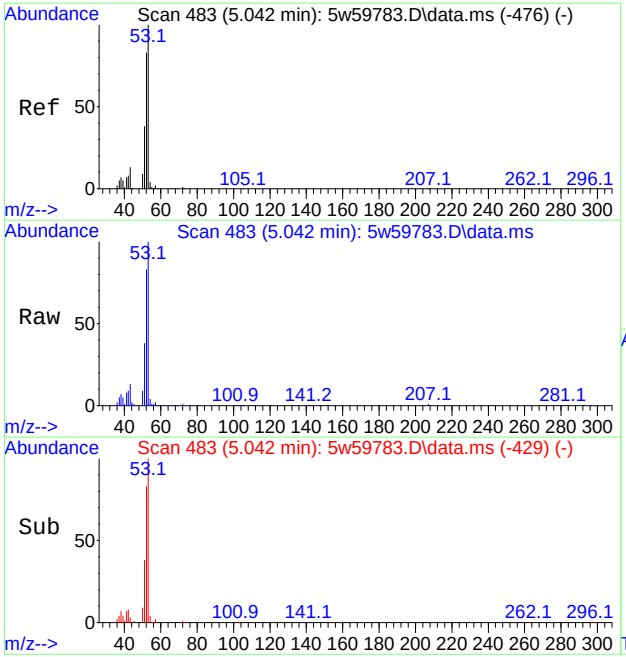


#29
BROMOETHENE
Concen: 10.65 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 508476

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	13.9	0.0	44.0

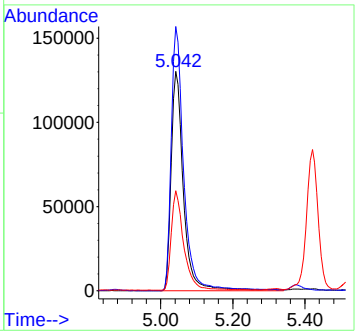


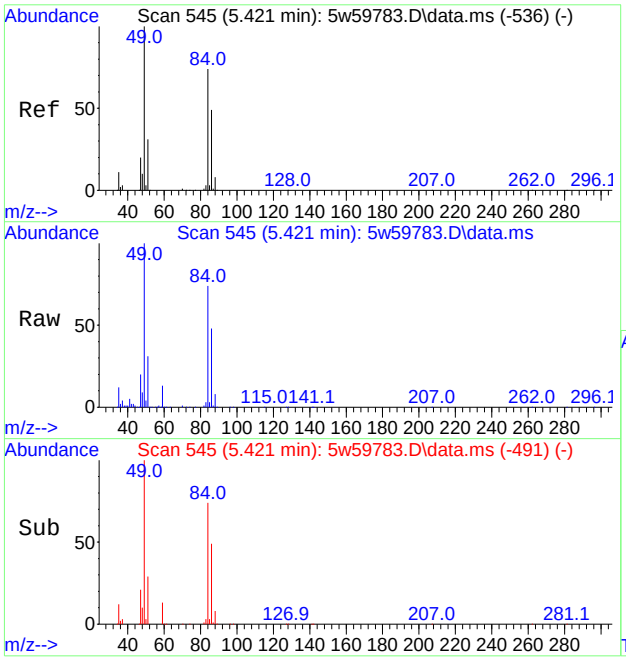


#30
ACRYLONITRILE
Concen: 8.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 310247

Ion	Ratio	Lower	Upper
52	100		
53	122.6	85.8	159.4
51	46.2	32.3	59.9

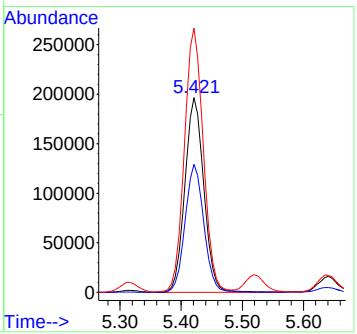


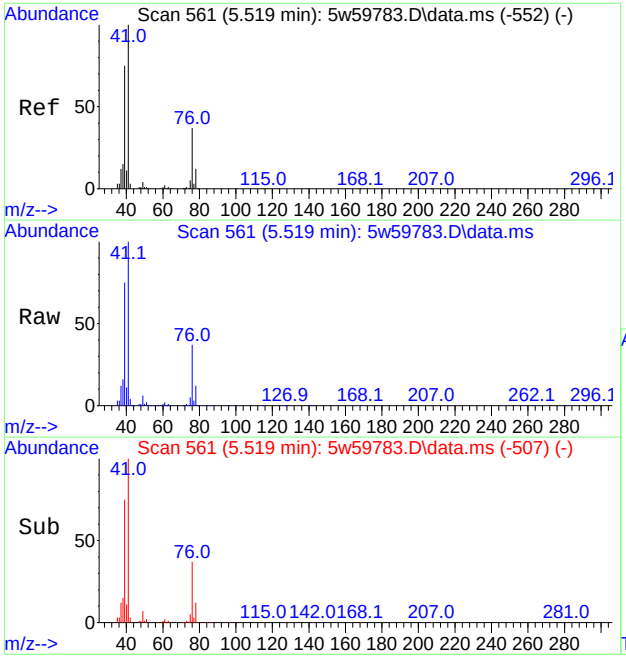


#31
METHYLENE CHLORIDE
Concen: 8.70 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 424759

Ion	Ratio	Lower	Upper
84	100		
86	65.2	35.2	95.2
49	135.3	105.3	165.3

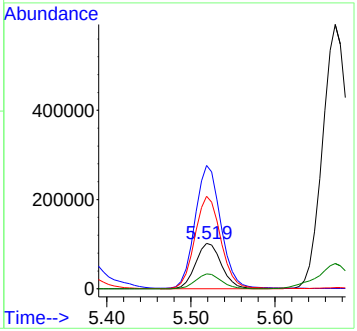


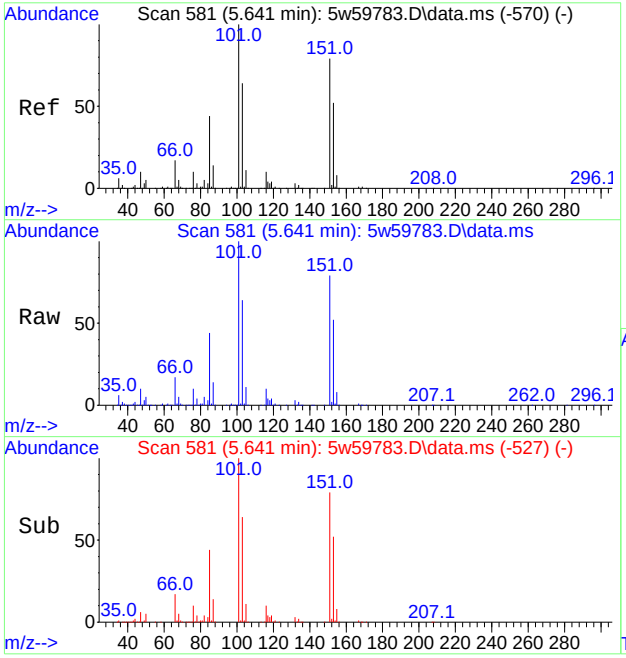


#32
3-CHLOROPROPENE
Concen: 9.74 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 218615

Ion	Ratio	Lower	Upper
76	100		
41	270.8	240.9	300.9
39	203.6	173.3	233.3
78	32.8	2.8	62.8

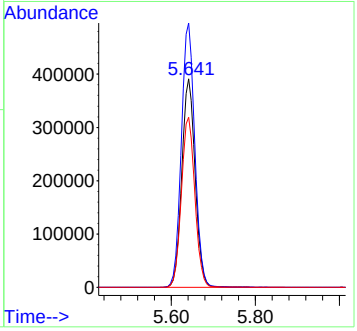


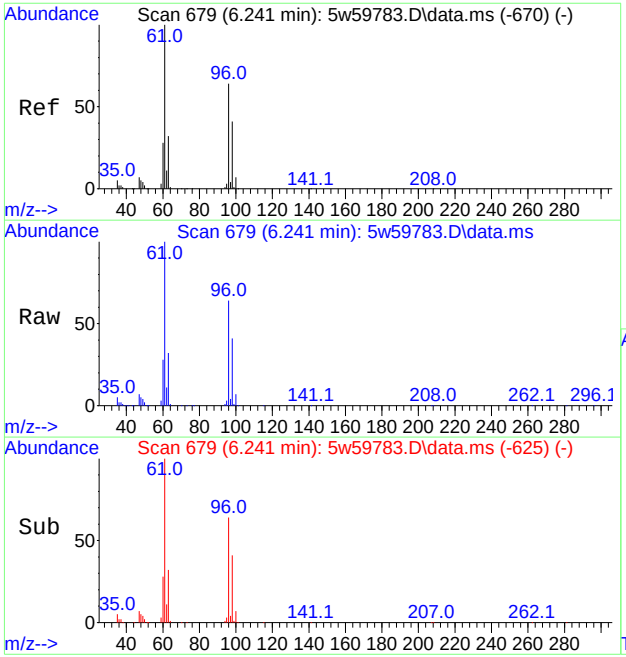


#33
FREON 113
Concen: 9.06 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:151 Resp: 865046

Ion	Ratio	Lower	Upper
151	100		
101	127.5	97.5	157.5
103	82.5	52.5	112.5

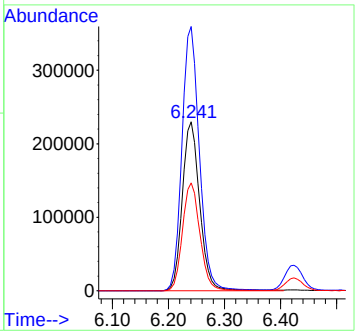


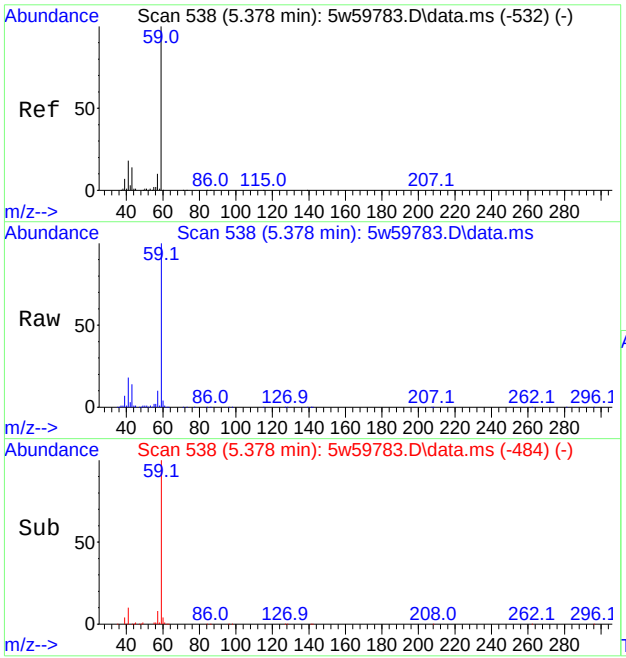


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 8.93 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 496473

Ion	Ratio	Lower	Upper
96	100		
61	156.4	126.4	186.4
98	64.1	34.1	94.1

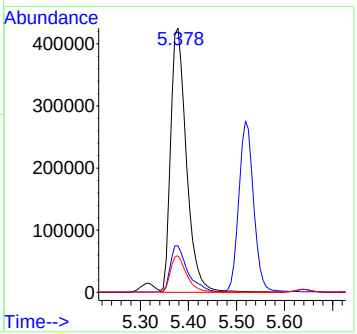


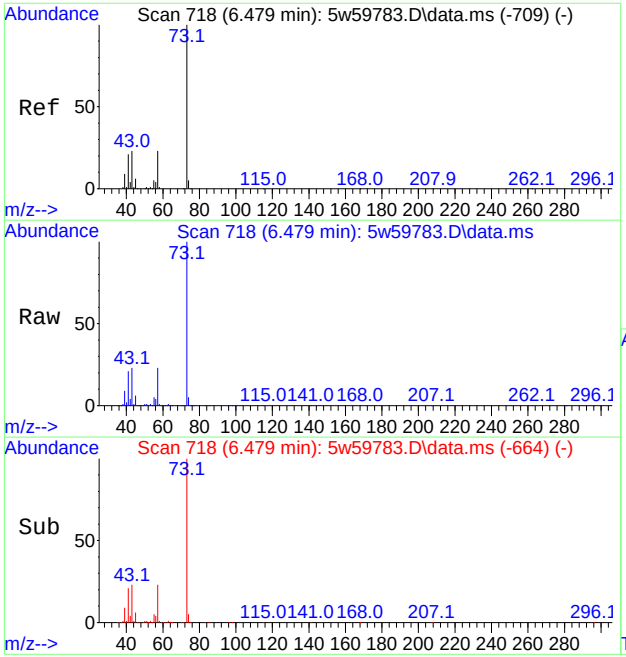


#35
TERTIARY BUTYL ALCOHOL
Concen: 8.31 PPBV
RT: 5.378 min Scan# 538
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 968852

Ion	Ratio	Lower	Upper
59	100		
41	19.3	0.0	49.3
43	14.1	0.0	44.1

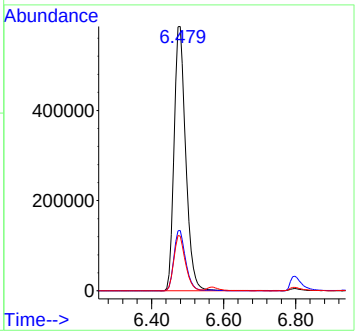


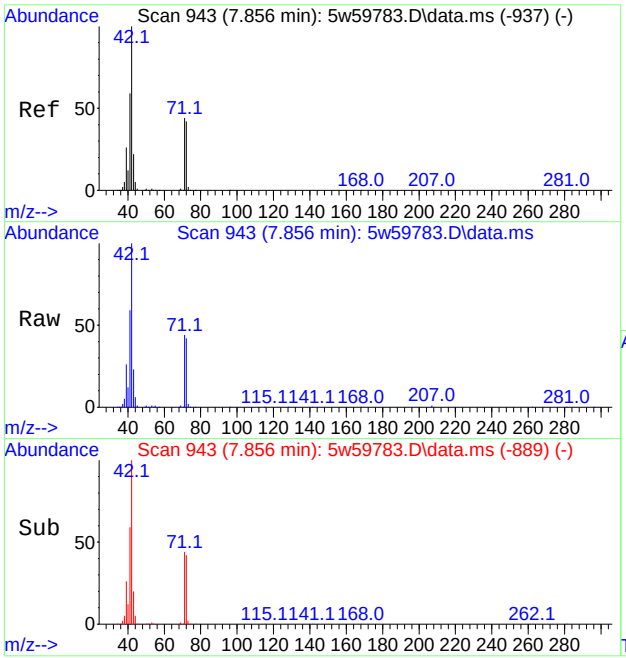


#36
METHYL TERTIARY BUTYL ETHER
Concen: 9.62 PPBV
RT: 6.479 min Scan# 718
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 73 Resp: 1323434

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.6	0.0	50.6

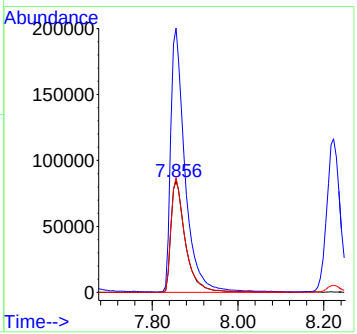


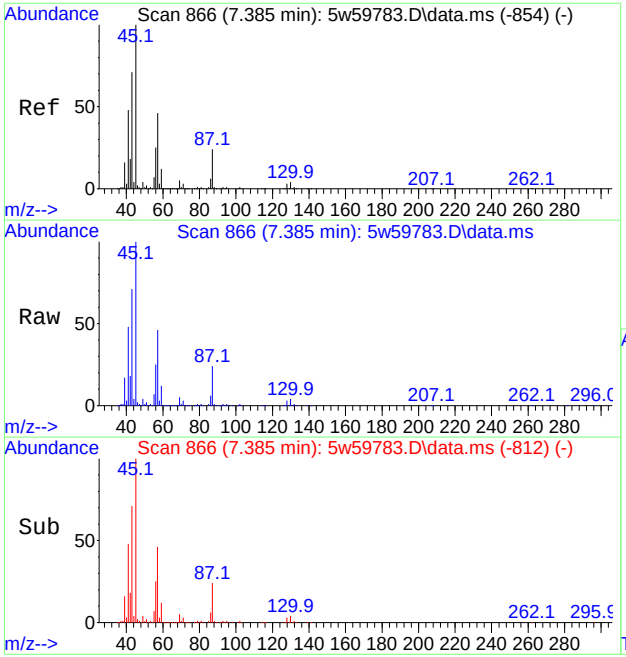


#37
TETRAHYDROFURAN
Concen: 10.87 PPBV
RT: 7.856 min Scan# 943
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 199227

Ion	Ratio	Lower	Upper
72	100		
42	232.4	202.4	262.4
71	101.1	71.1	131.1

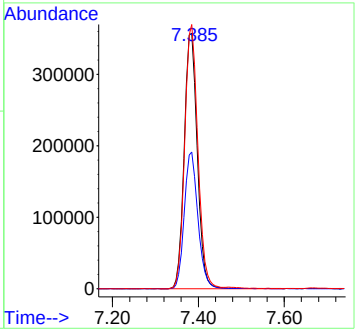


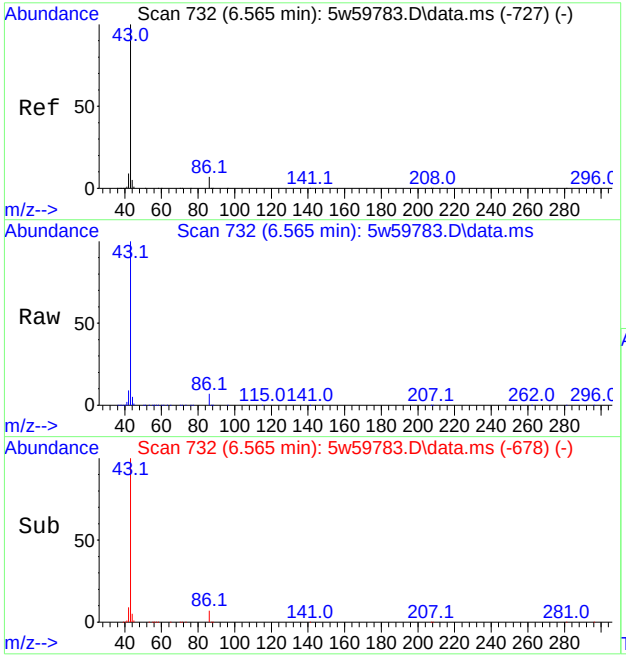


#38
HEXANE
Concen: 9.88 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 758015

Ion	Ratio	Lower	Upper
57	100		
56	55.9	25.9	85.9
41	104.7	74.7	134.7

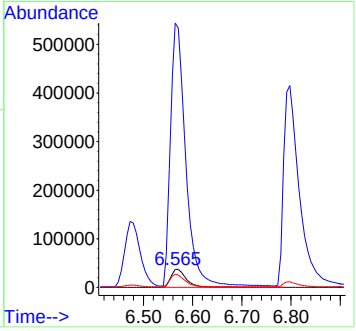


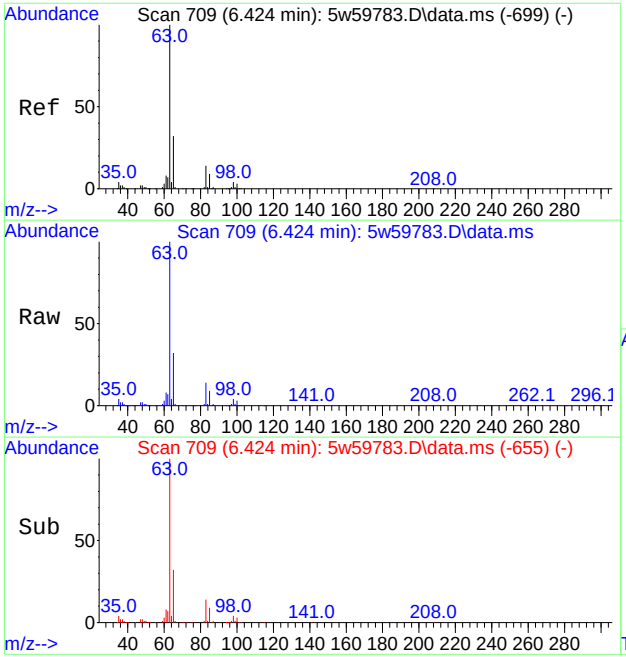


#39
VINYL ACETATE
Concen: 9.01 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 86 Resp: 82624

Ion	Ratio	Lower	Upper
86	100		
43	1409.7	1379.7	1439.7
44	66.9	36.9	96.9

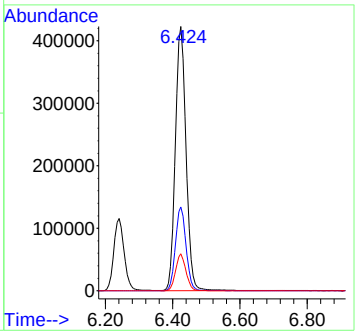


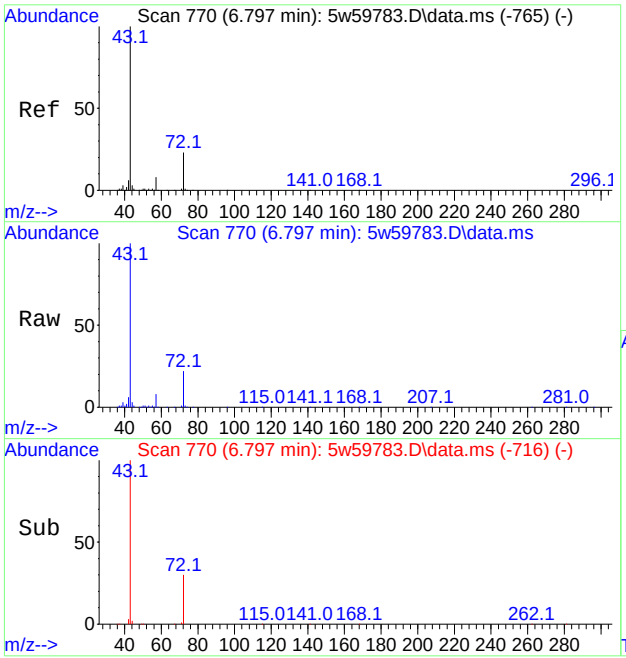


#40
1,1-DICHLOROETHANE
Concen: 9.18 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 931030

Ion	Ratio	Lower	Upper
63	100		
65	31.7	1.7	61.7
83	13.5	0.0	43.5

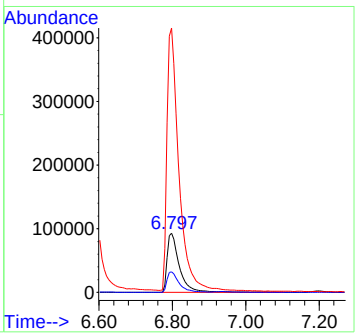


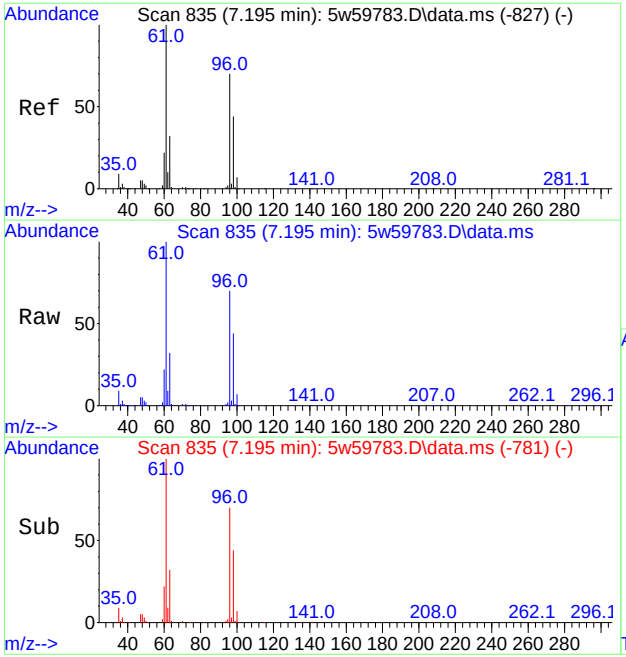


#41
METHYL ETHYL KETONE
Concen: 11.31 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 216147

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	445.9	415.9	475.9

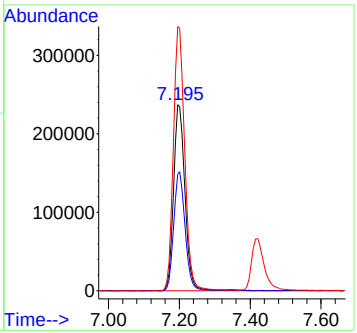


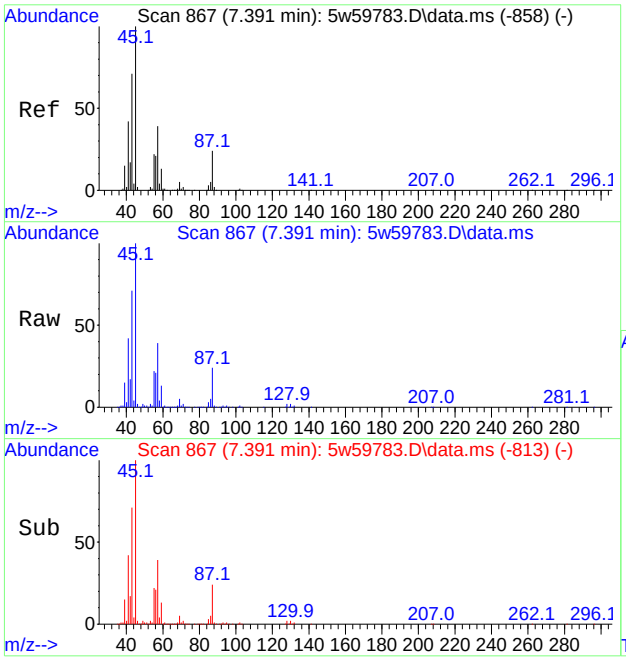


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.24 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 529578

Ion	Ratio	Lower	Upper
96	100		
98	64.0	34.0	94.0
61	141.5	111.5	171.5

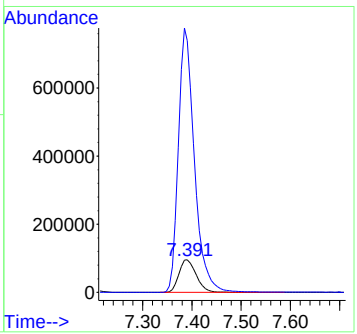


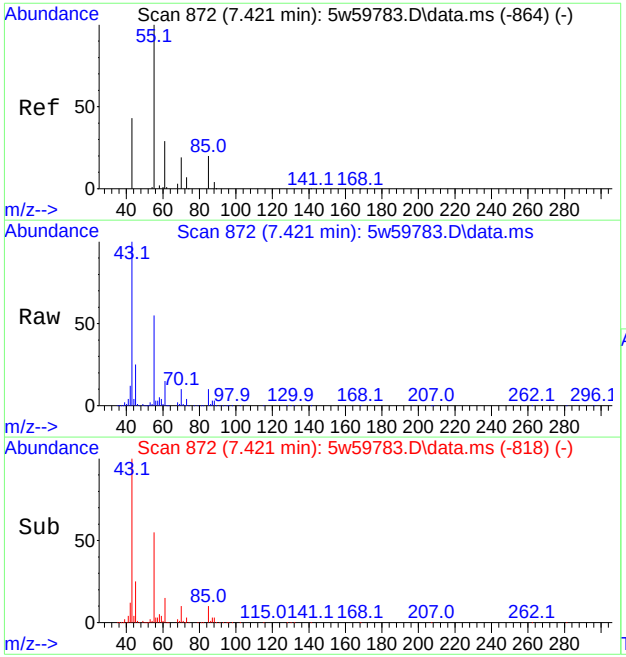


#43
DIISOPROPYL ETHER
Concen: 11.29 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 234936

Ion	Ratio	Lower	Upper
59	100		
45	750.9	720.9	780.9

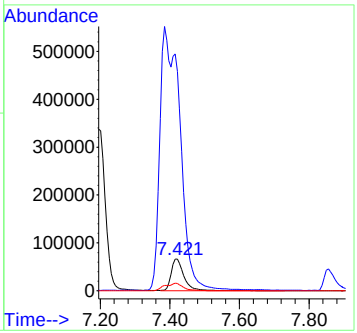


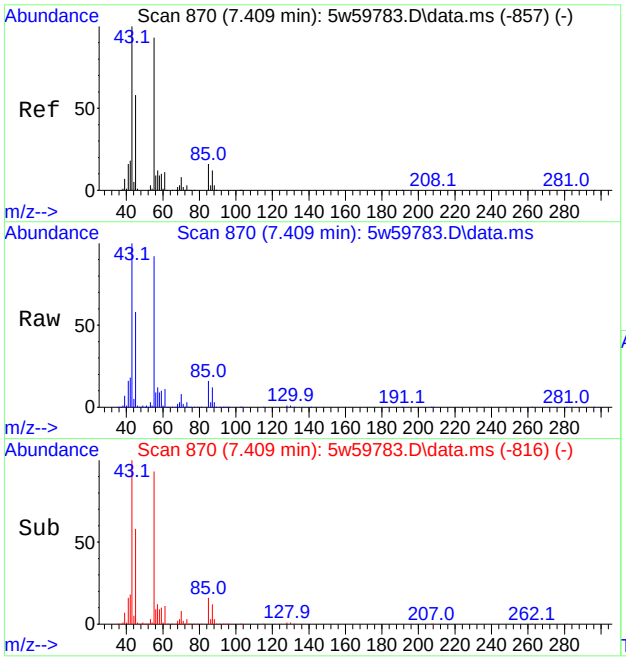


#44
ETHYL ACETATE
Concen: 10.80 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 61 Resp: 169787

Ion	Ratio	Lower	Upper
61	100		
43	590.5	581.3	641.3
88	34.5	4.5	64.5

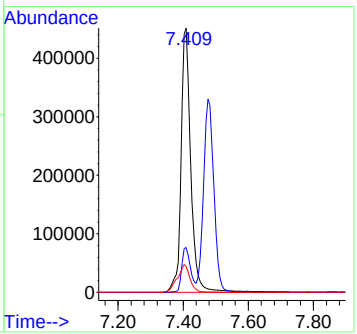


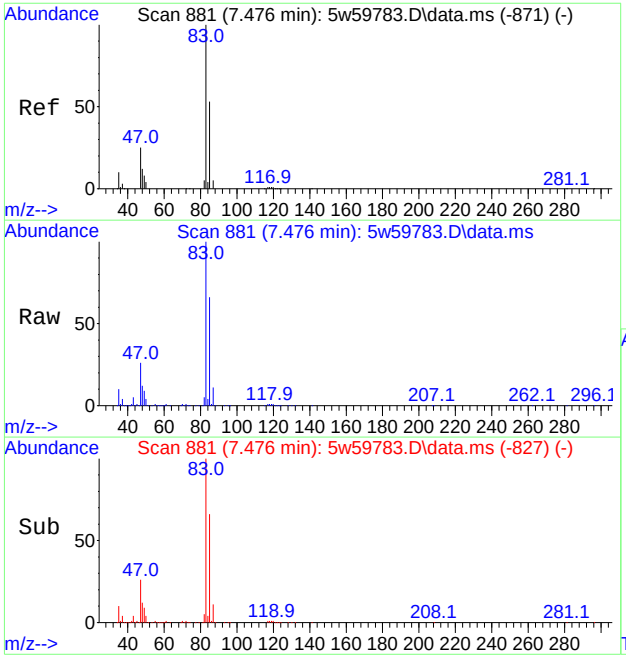


#45
METHYL ACRYLATE
Concen: 10.40 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 948651

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.5	9.4	17.6

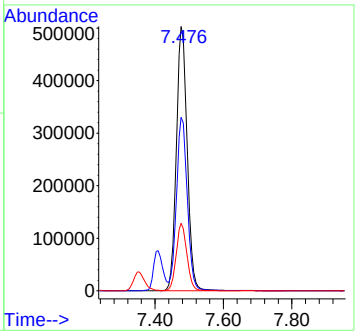


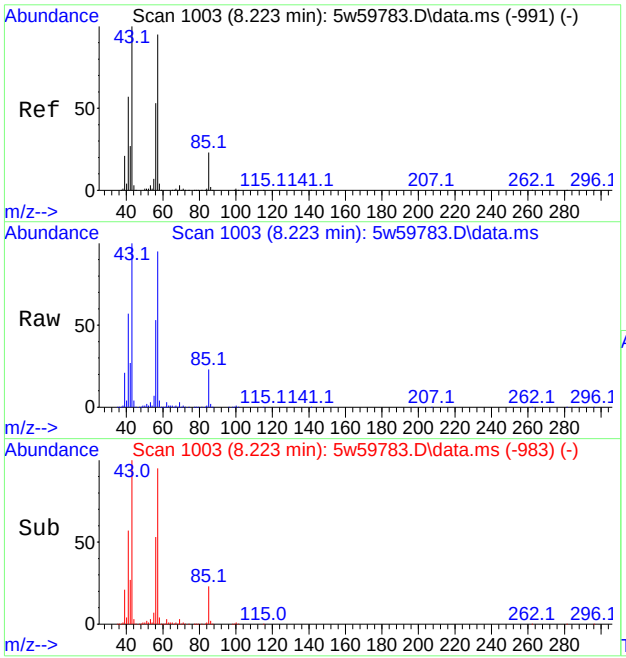


#46
CHLOROFORM
Concen: 9.51 PPBV
RT: 7.476 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1113306

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.5	95.5
47	25.2	0.0	55.2

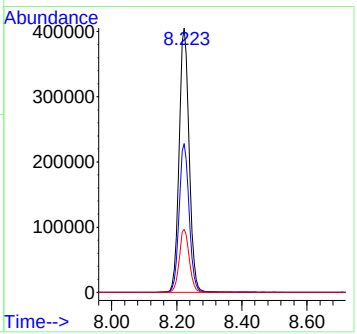




#47
2,4-DIMETHYLPENTANE
Concen: 9.73 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

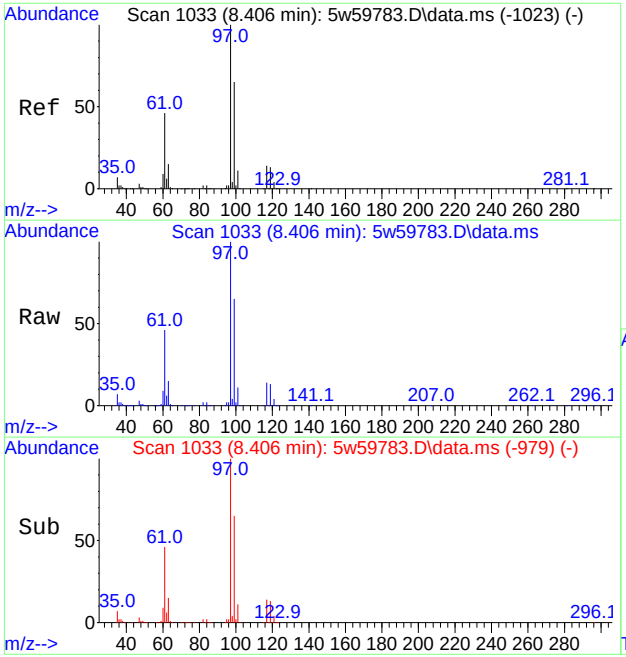
Tgt Ion: 57 Resp: 877406

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.8	0.0	53.8



7.7.6

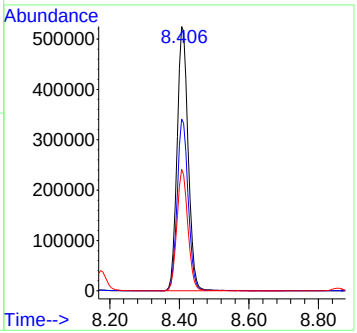
7

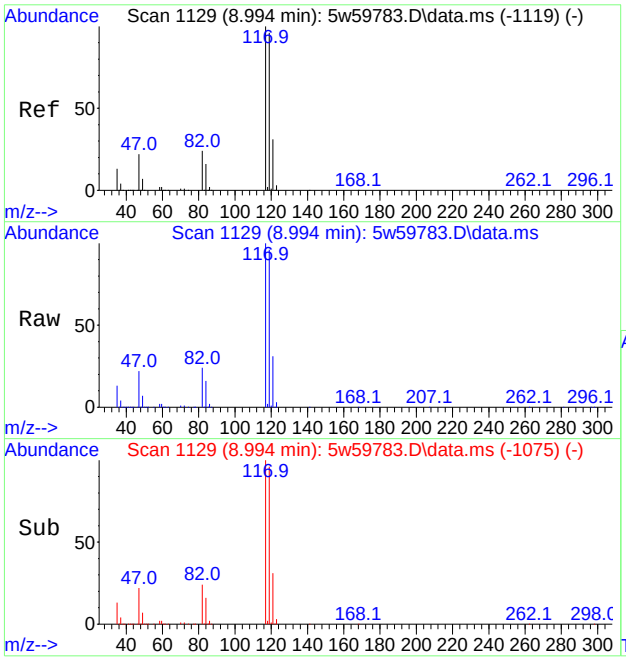


#48
1,1,1-TRICHLOROETHANE
Concen: 9.11 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 97 Resp: 1165134

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.8	94.8
61	45.8	15.8	75.8

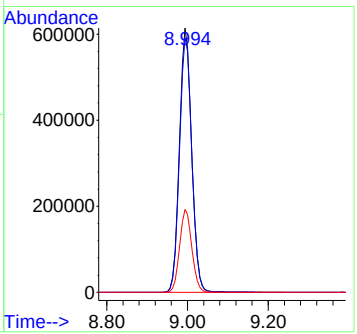


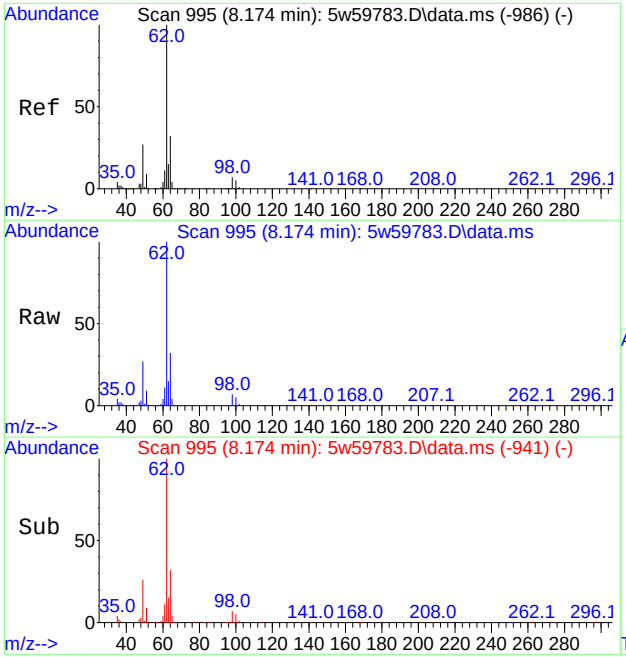


#49
CARBON TETRACHLORIDE
Concen: 9.17 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1296040

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.3	1.3	61.3

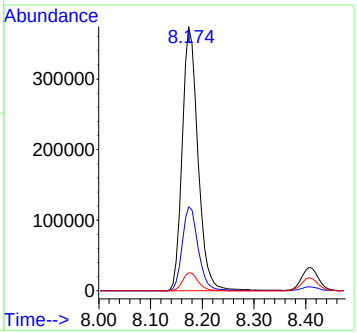


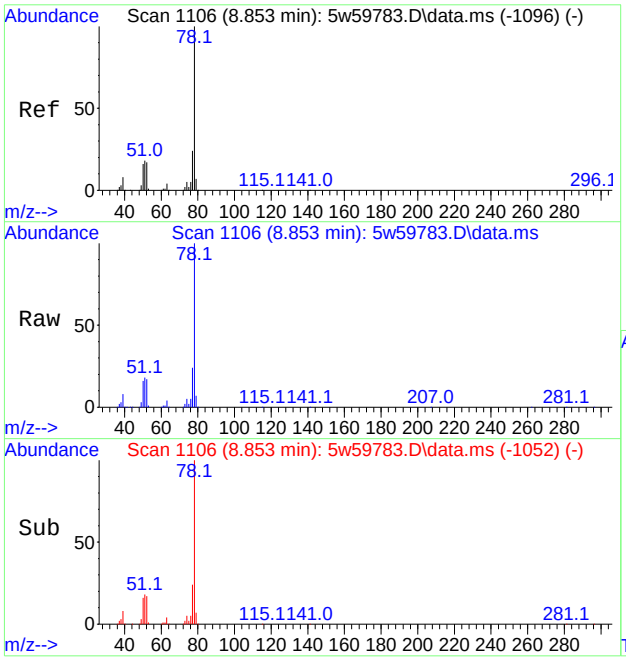


#50
1,2-DICHLOROETHANE
Concen: 9.55 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 793795

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.9	0.0	36.9

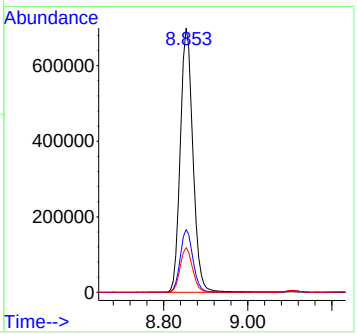


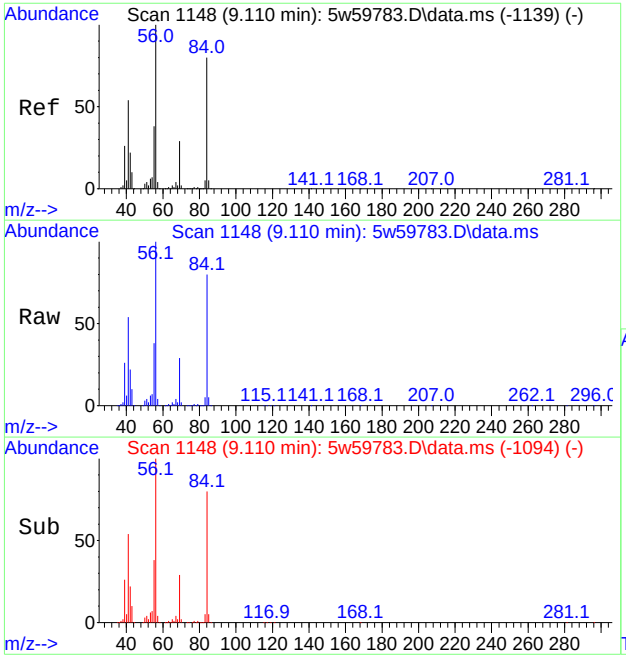


#52
BENZENE
Concen: 10.93 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 78 Resp: 1461752

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.8
52	16.9	0.0	46.9

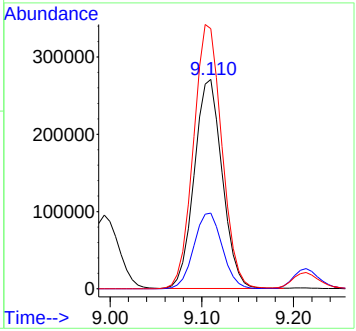


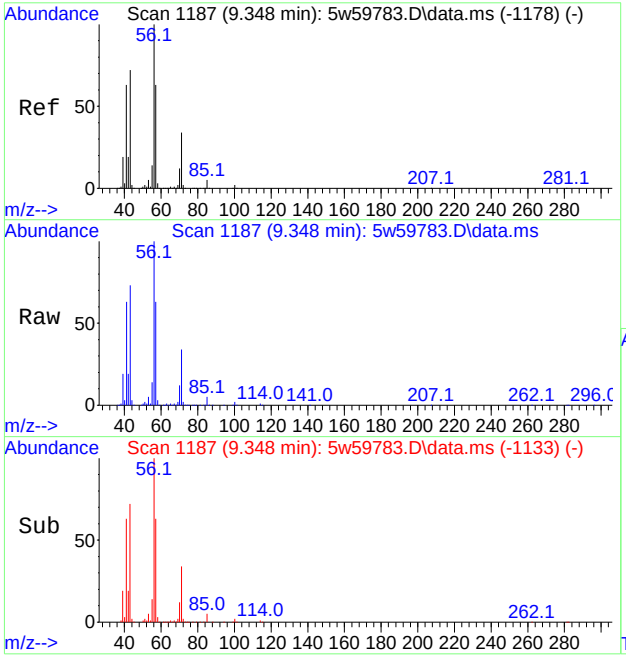


#53
CYCLOHEXANE
Concen: 10.80 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 573806

Ion	Ratio	Lower	Upper
84	100		
69	36.9	6.9	66.9
56	128.2	98.2	158.2

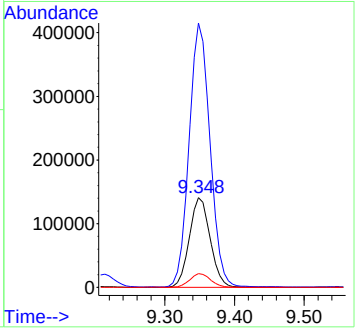


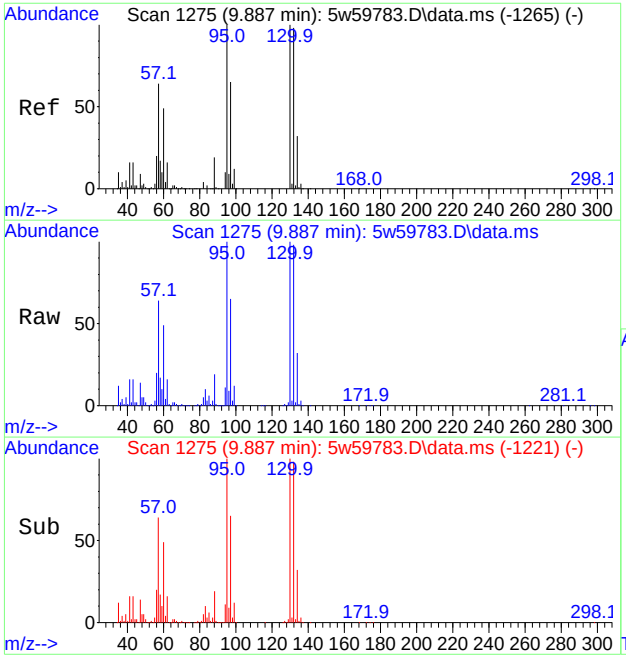


#54
2,3-DIMETHYLPENTANE
Concen: 10.99 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 71 Resp: 294377

Ion	Ratio	Lower	Upper
71	100		
56	294.6	264.6	324.6
85	15.3	0.0	45.3

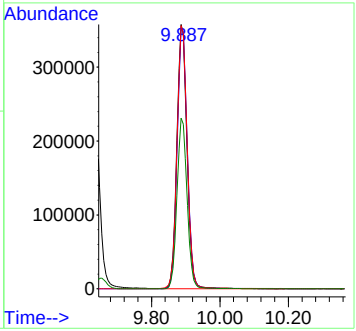


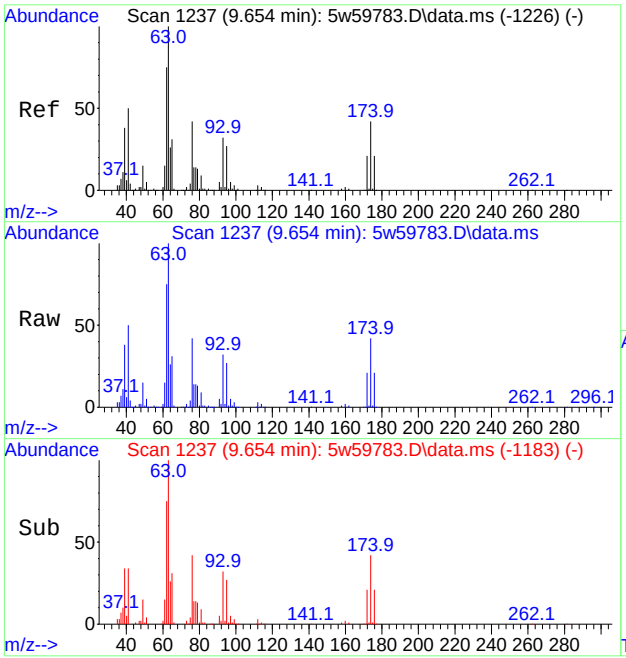


#55
TRICHLOROETHYLENE
Concen: 10.30 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 95 Resp: 733457

Ion	Ratio	Lower	Upper
95	100		
132	99.0	69.0	129.0
130	100.6	70.6	130.6
97	64.6	34.6	94.6

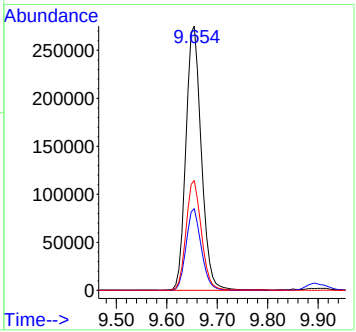


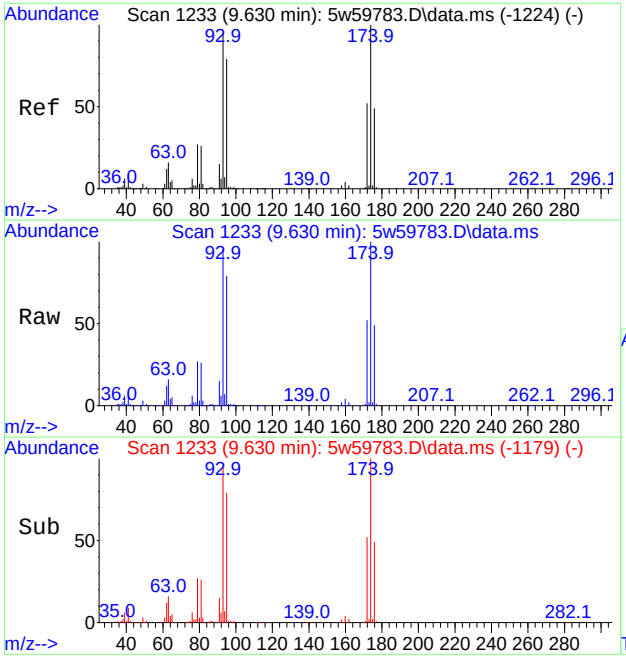


#56
1,2-DICHLOROPROPANE
Concen: 10.35 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 587338

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.5	11.5	71.5

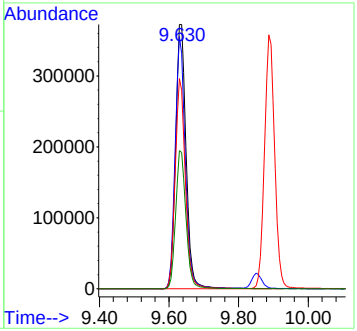


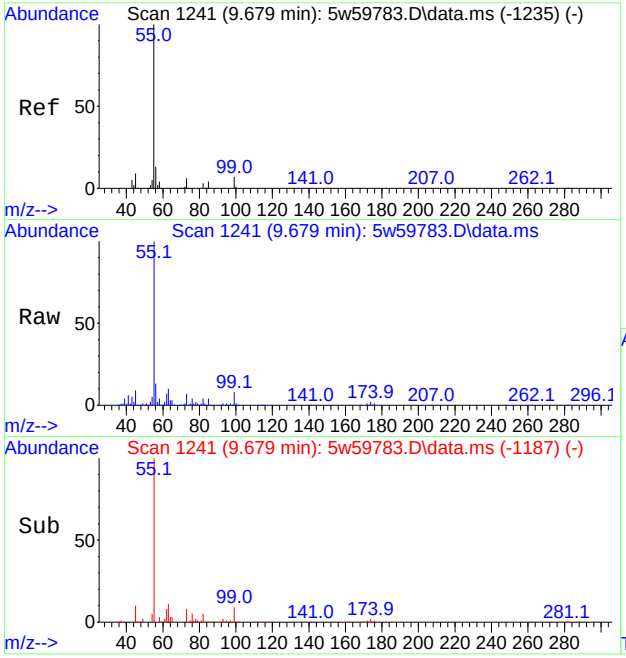


#57
DIBROMOMETHANE
Concen: 9.96 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:174 Resp: 777595

Ion	Ratio	Lower	Upper
174	100		
93	92.8	65.0	120.6
95	77.8	54.5	101.1
172	51.9	36.3	67.5

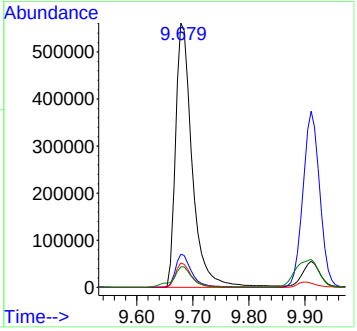


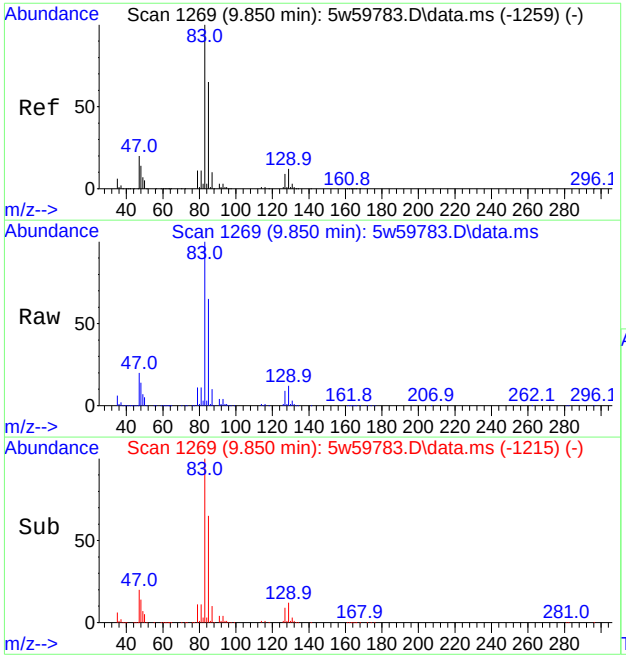


#58
ETHYL ACRYLATE
Concen: 11.15 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 1150308

Ion	Ratio	Lower	Upper
55	100		
56	12.3	8.6	16.0
45	9.4	6.6	12.2
99	9.2	6.4	12.0

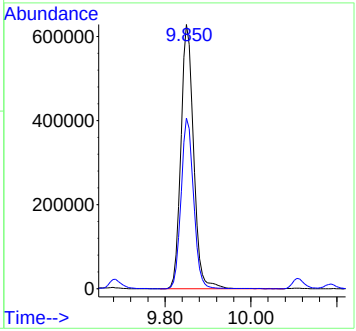


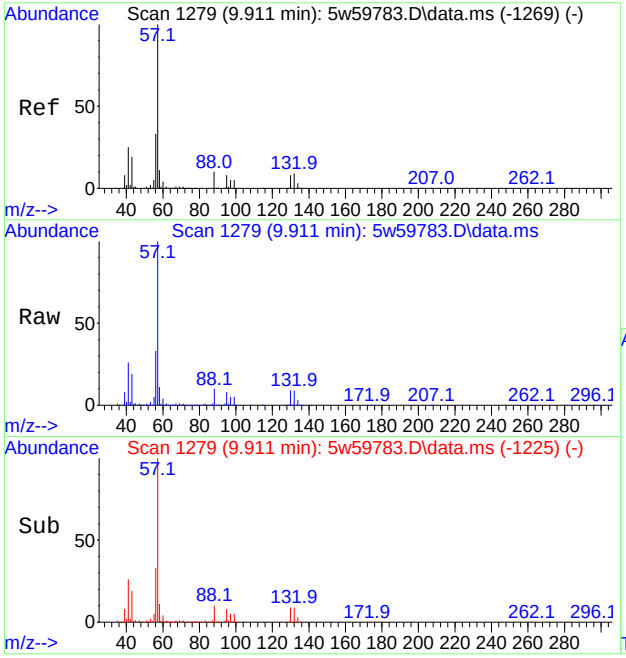


#59
BROMODICHLOROMETHANE
Concen: 10.19 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1291376

Ion	Ratio	Lower	Upper
83	100		
85	63.4	33.4	93.4

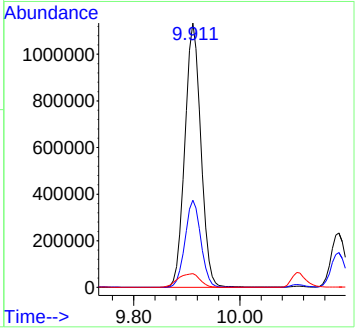


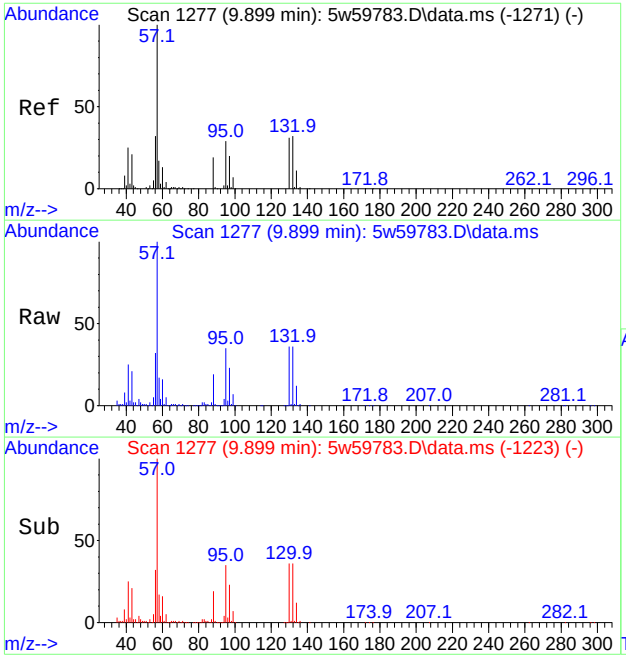


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.46 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 2382864

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.3	0.0	37.3

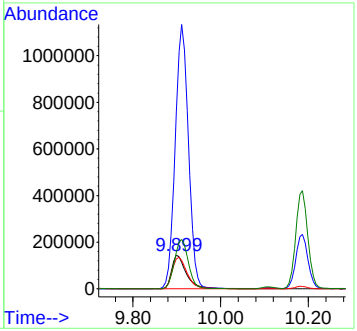


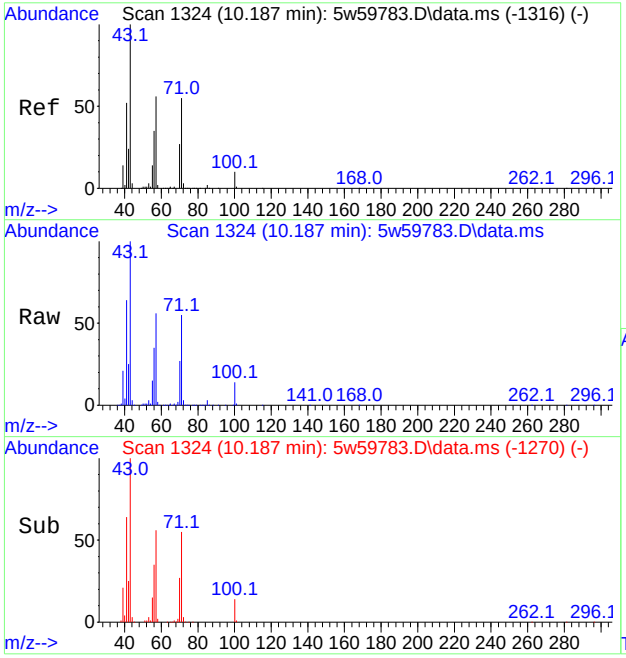


#61
1,4-DIOXANE
Concen: 12.16 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 88 Resp: 335180

Ion	Ratio	Lower	Upper
88	100		
57	524.2	494.2	554.2
58	88.9	58.9	118.9
43	108.3	78.3	138.3

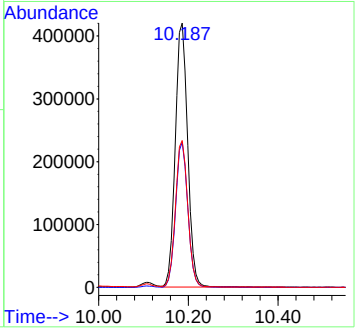


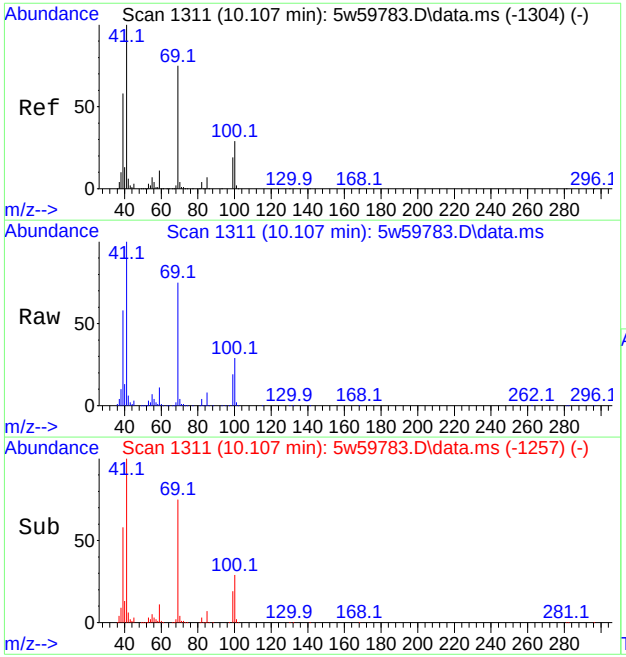


#62
HEPTANE
Concen: 9.62 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 809108

Ion	Ratio	Lower	Upper
43	100		
71	54.5	24.5	84.5
57	56.2	26.2	86.2

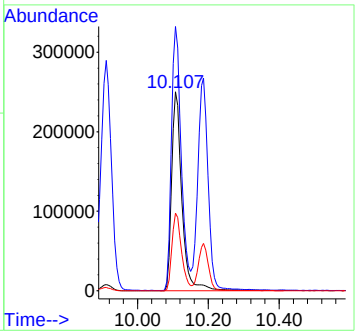


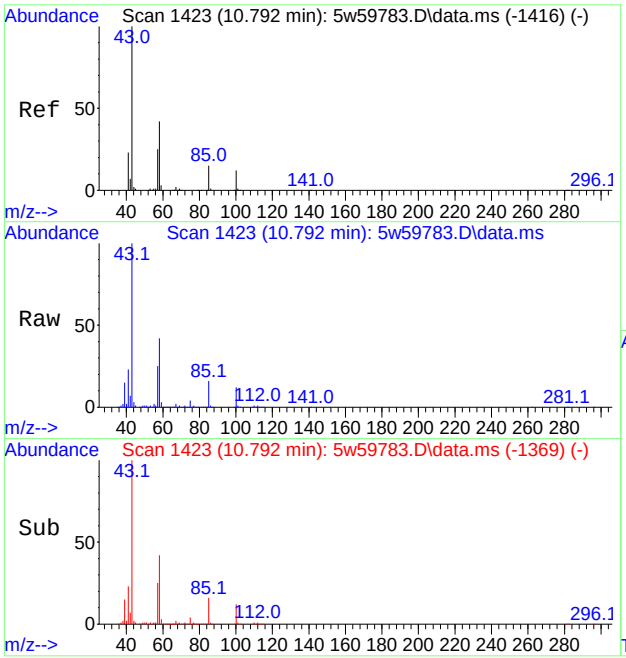


#63
METHYL METHACRYLATE
Concen: 12.20 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 505563

Ion	Ratio	Lower	Upper
69	100		
41	125.3	95.3	155.3
100	36.3	6.3	66.3

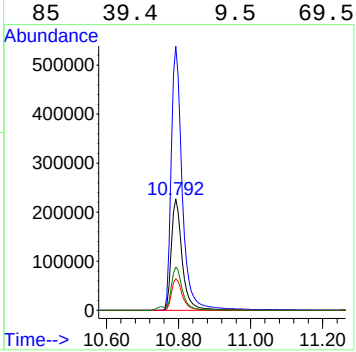


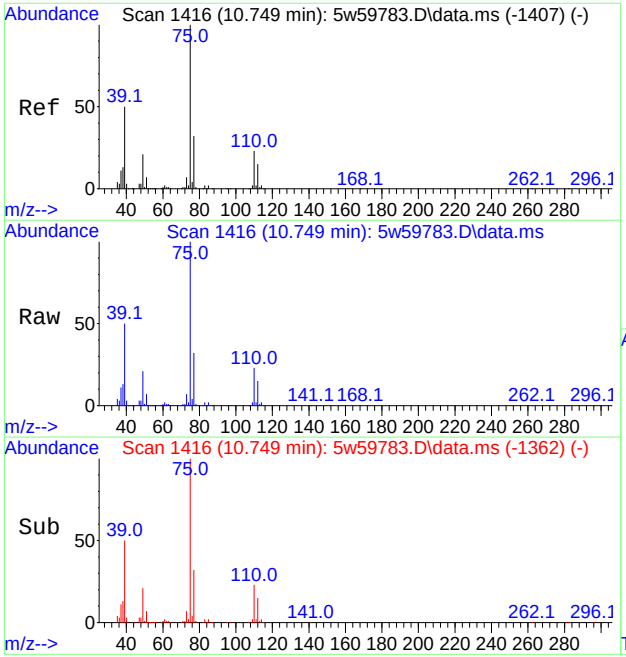


#64
METHYL ISOBUTYL KETONE
Concen: 11.29 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 480676

Ion	Ratio	Lower	Upper
58	100		
43	239.2	209.1	269.1
100	28.8	0.0	58.8
85	39.4	9.5	69.5

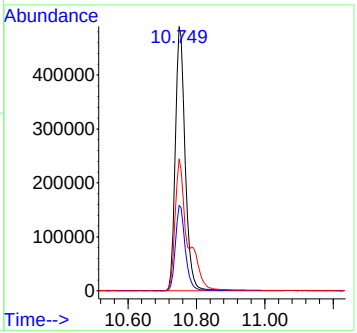


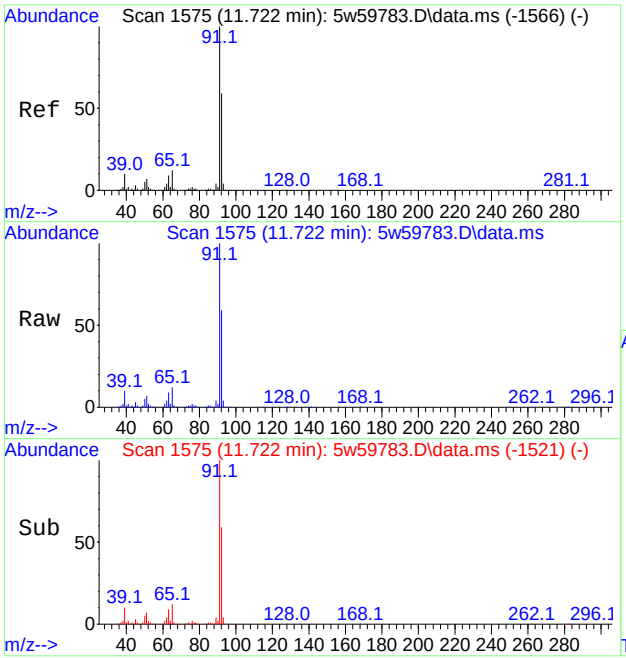


#65
cis-1,3-DICHLOROPROPENE
Concen: 11.23 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 988291

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.3	19.2	79.2

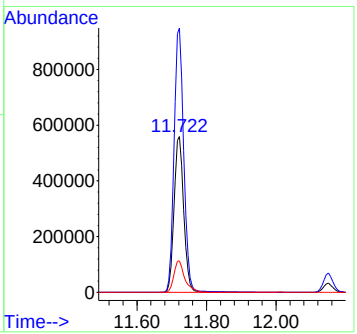


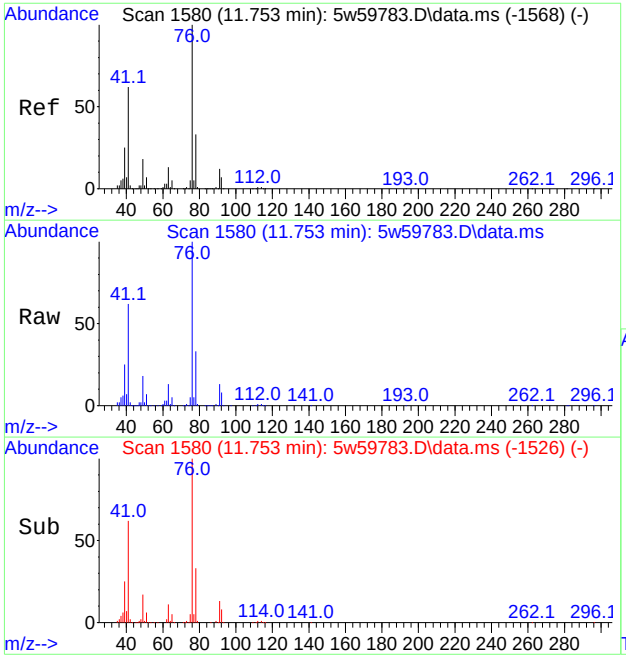


#66
TOLUENE
Concen: 11.29 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 92 Resp: 1078428

Ion	Ratio	Lower	Upper
92	100		
91	170.1	140.1	200.1
65	23.1	0.0	53.1

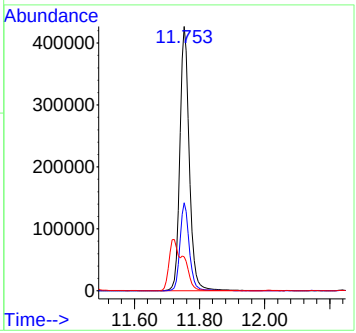


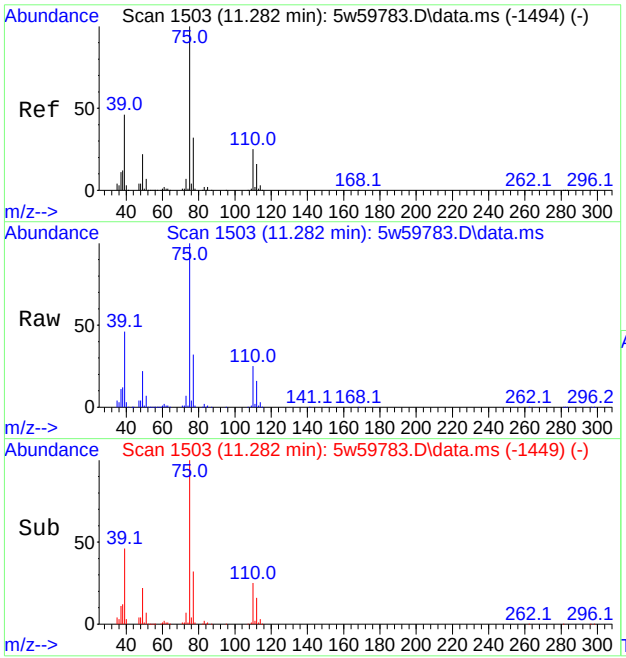


#67
1,3-DICHLOROPROPANE
Concen: 10.80 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 866163

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	10.1	7.2	13.4

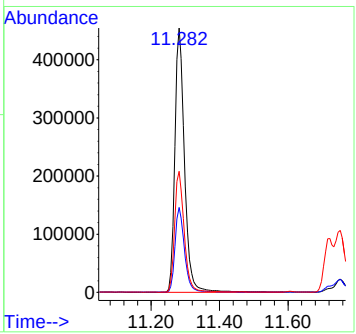


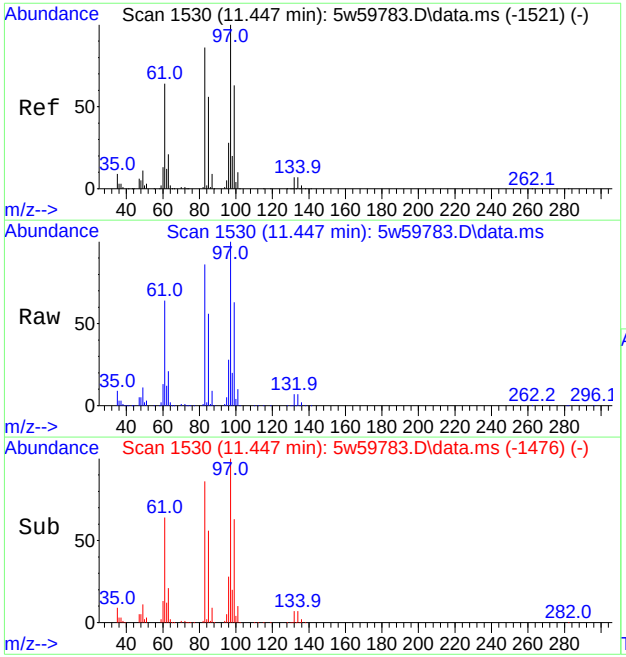


#68
trans-1,3-DICHLOROPROPENE
Concen: 11.02 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 890794

Ion	Ratio	Lower	Upper
75	100		
77	31.6	1.7	61.7
39	46.1	16.2	76.2

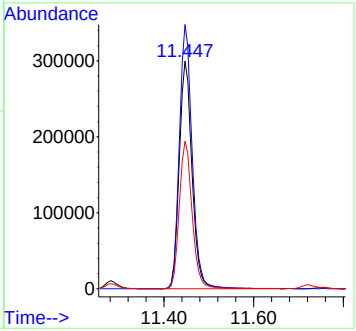


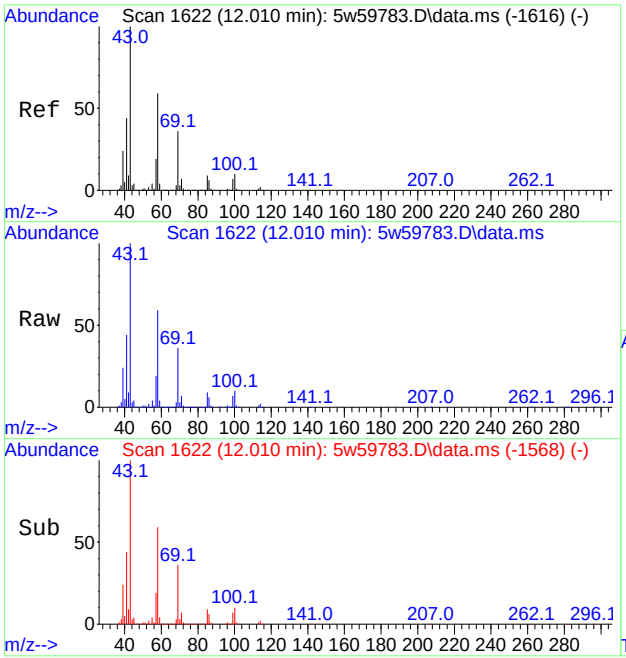


#69
1,1,2-TRICHLOROETHANE
Concen: 11.35 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 593800

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.3	35.3	95.3

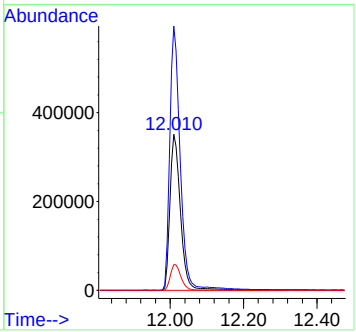


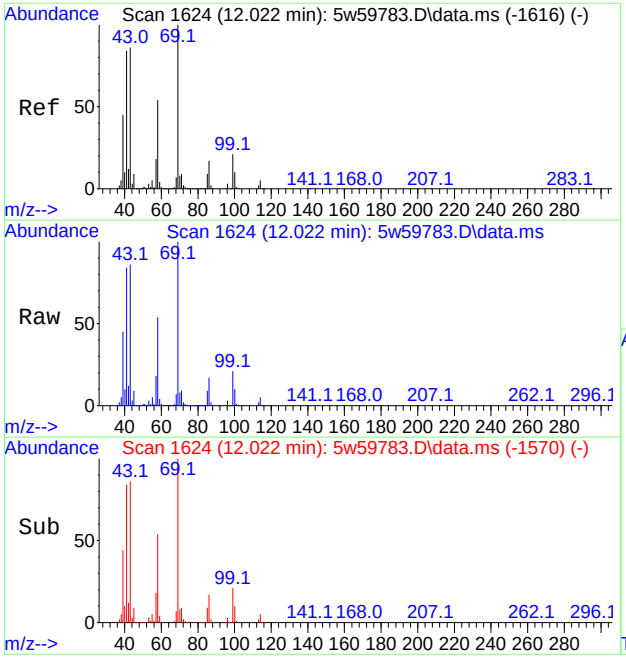


#71
2-HEXANONE
Concen: 12.76 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 708433

Ion	Ratio	Lower	Upper
58	100		
43	167.2	137.2	197.2
100	16.9	0.0	46.9

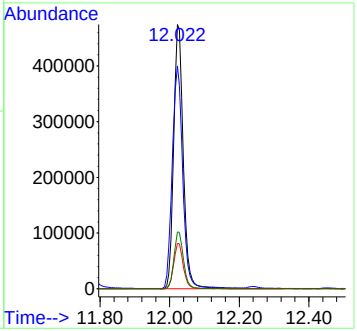


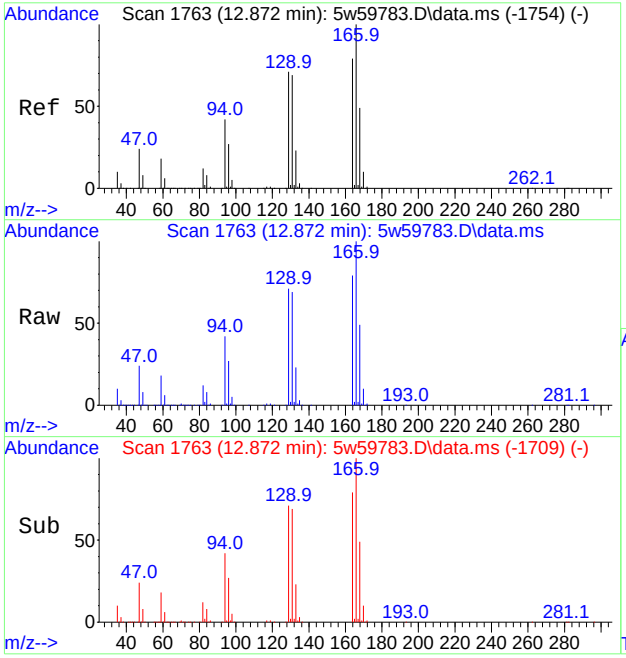


#72
ETHYL METHACRYLATE
Concen: 13.03 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 915611

Ion	Ratio	Lower	Upper
69	100		
41	91.5	64.0	119.0
86	17.2	12.0	22.4
99	21.4	15.0	27.8

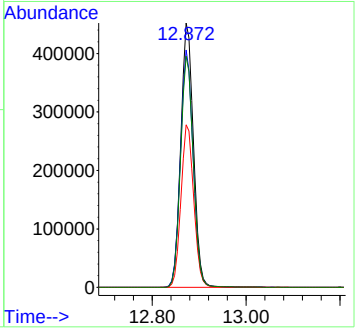


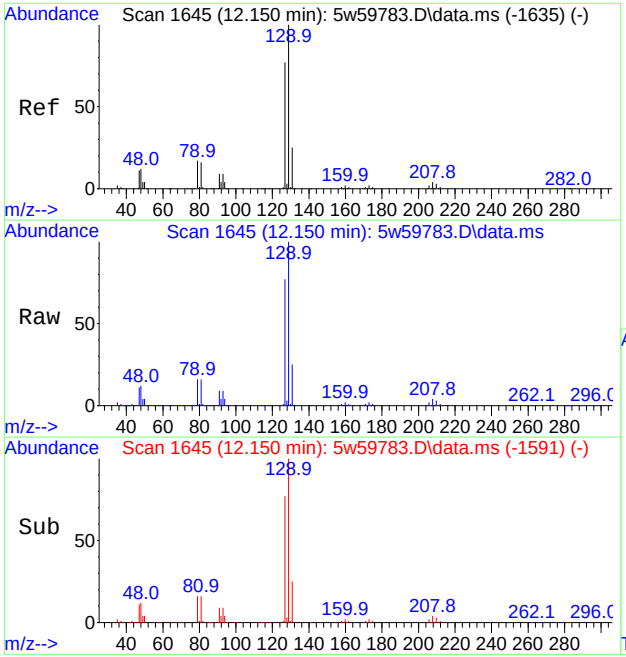


#73
TETRACHLOROETHYLENE
Concen: 10.39 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:164 Resp: 851797

Ion	Ratio	Lower	Upper
164	100		
129	89.7	59.7	119.7
168	62.2	32.2	92.2
131	87.8	57.8	117.8

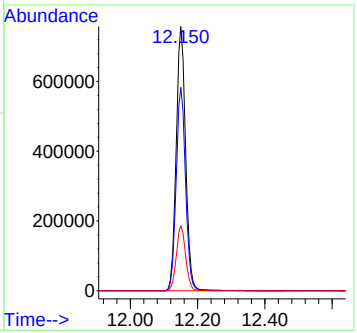


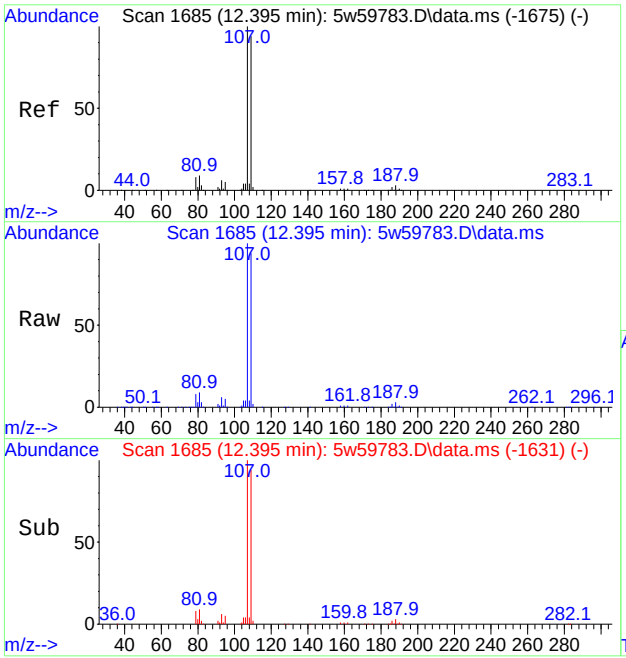


#74
DIBROMOCHLOROMETHANE
Concen: 10.66 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:129 Resp: 1470928

Ion	Ratio	Lower	Upper
129	100		
127	77.1	47.1	107.1
131	24.5	0.0	54.5

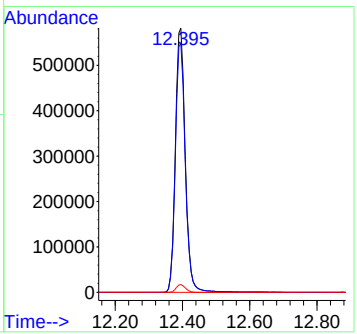


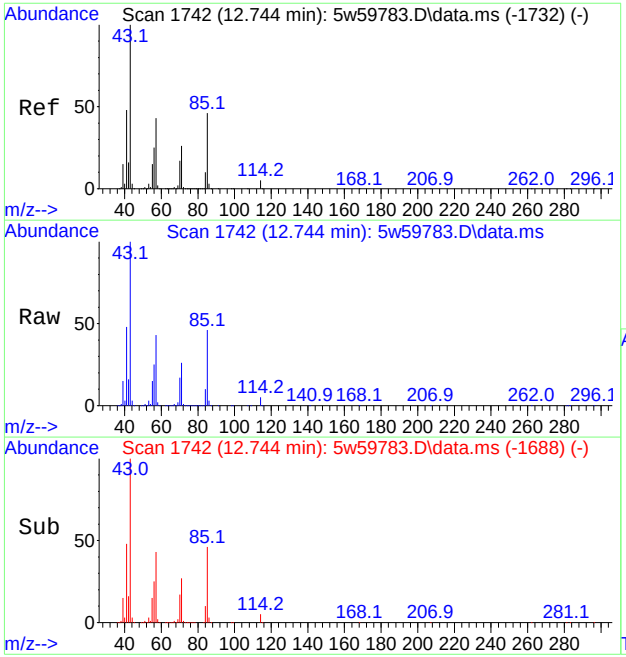


#75
1,2-DIBROMOETHANE
Concen: 11.73 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:107 Resp: 1182589

Ion	Ratio	Lower	Upper
107	100		
109	94.8	64.8	124.8
188	2.8	0.0	32.8

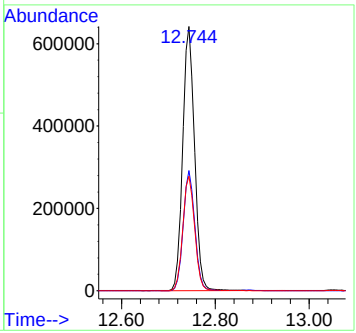


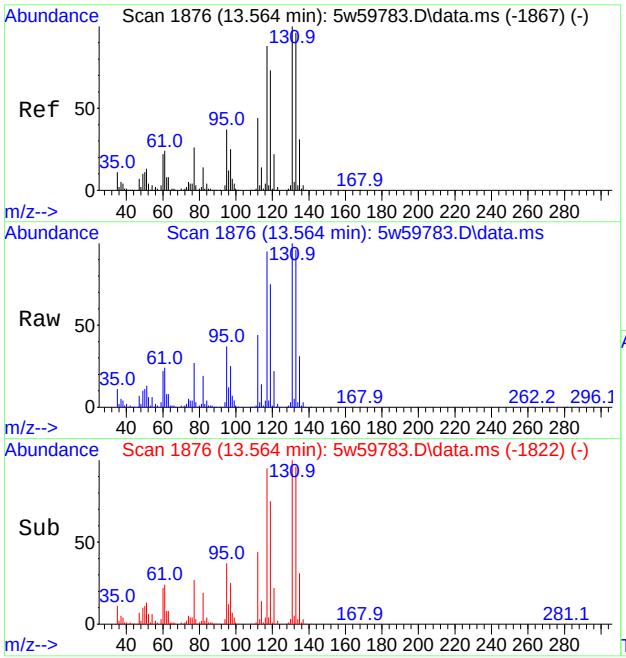


#76
OCTANE
Concen: 9.72 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1128893

Ion	Ratio	Lower	Upper
43	100		
85	44.6	14.6	74.6
57	43.7	13.7	73.7

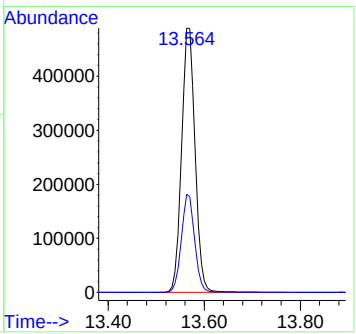


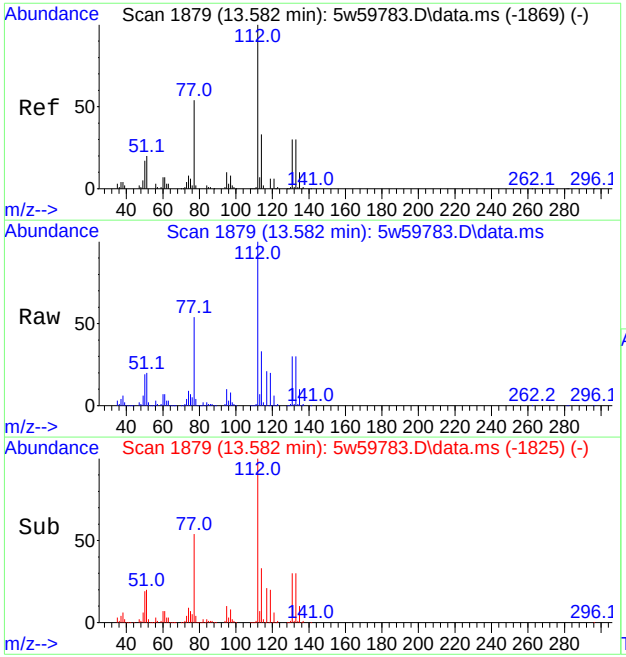


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.52 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:131 Resp: 951903

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

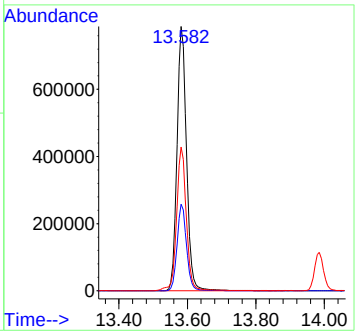


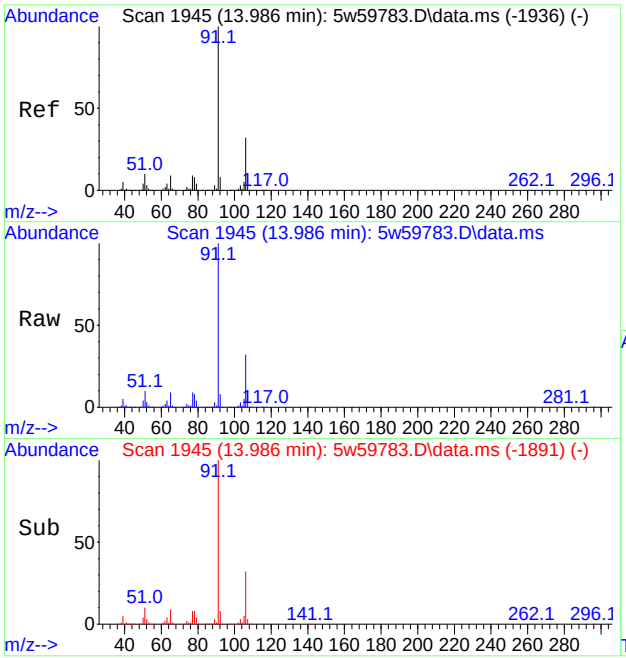


#78
CHLOROBENZENE
Concen: 10.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:112 Resp: 1532486

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.4	25.4	85.4

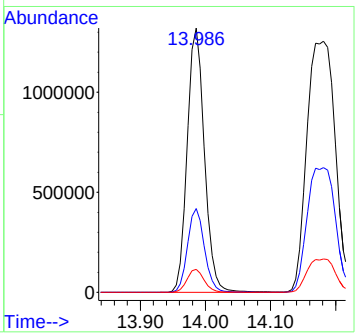


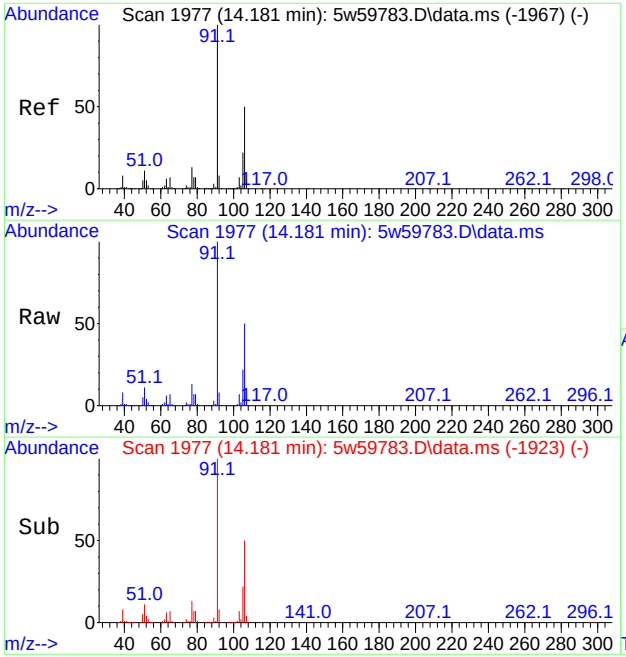


#79
ETHYLBENZENE
Concen: 11.38 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2426187

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.3	61.3
77	8.6	0.0	38.6

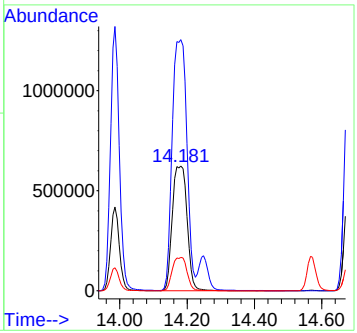


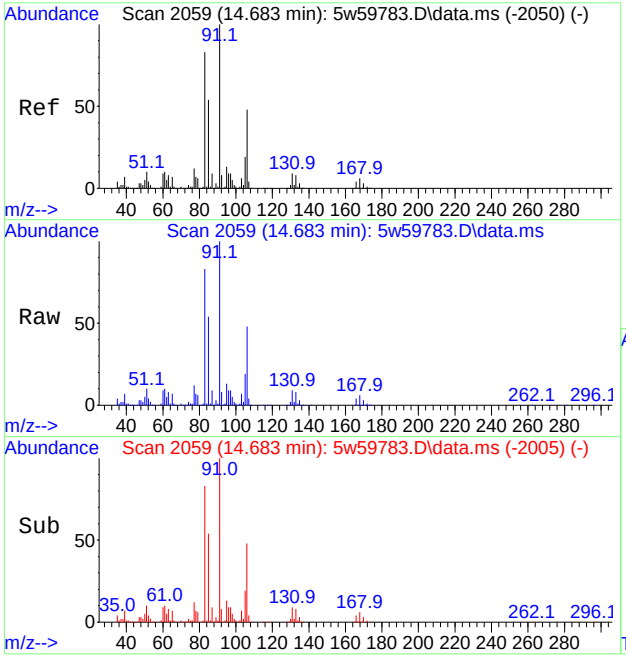


#80
m,p-XYLENE
Concen: 23.39 PPBV
RT: 14.181 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 1894377

Ion	Ratio	Lower	Upper
106	100		
91	201.0	171.0	231.0
77	26.7	0.0	56.7

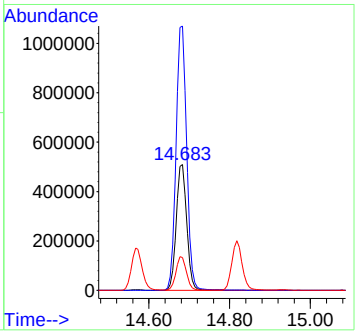


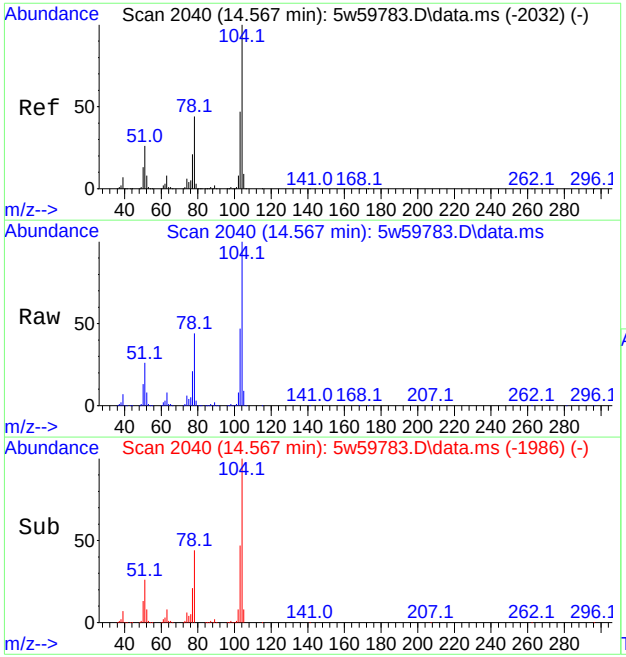


#81
o-XYLENE
Concen: 12.40 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 921132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	181.6	241.6
77	26.6	0.0	56.6

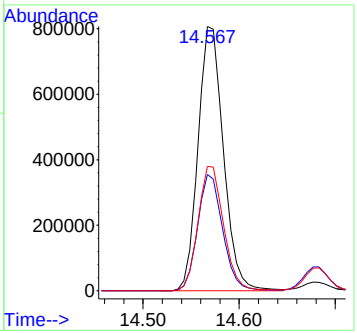


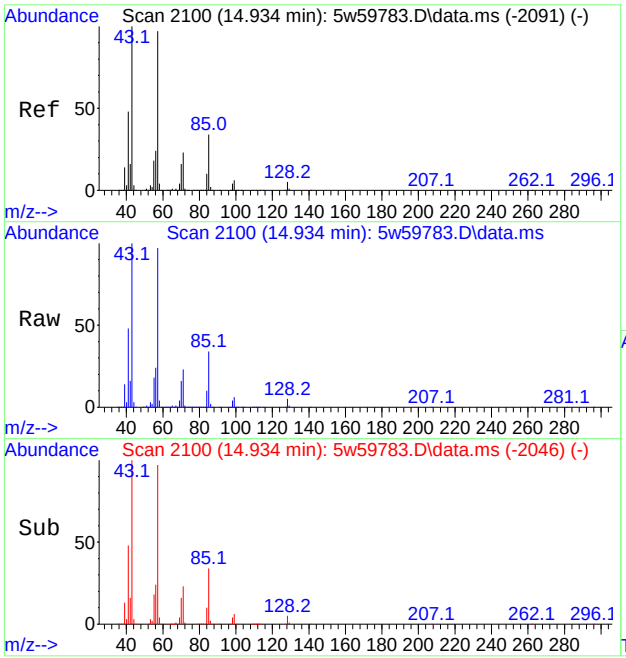


#82
STYRENE
Concen: 13.06 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:104 Resp: 1485661

Ion	Ratio	Lower	Upper
104	100		
78	43.3	13.3	73.3
103	47.2	17.2	77.2

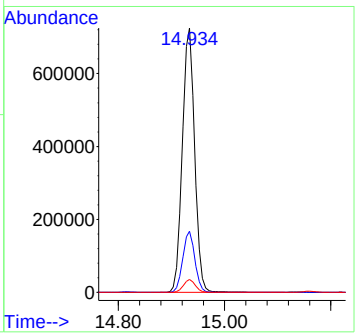


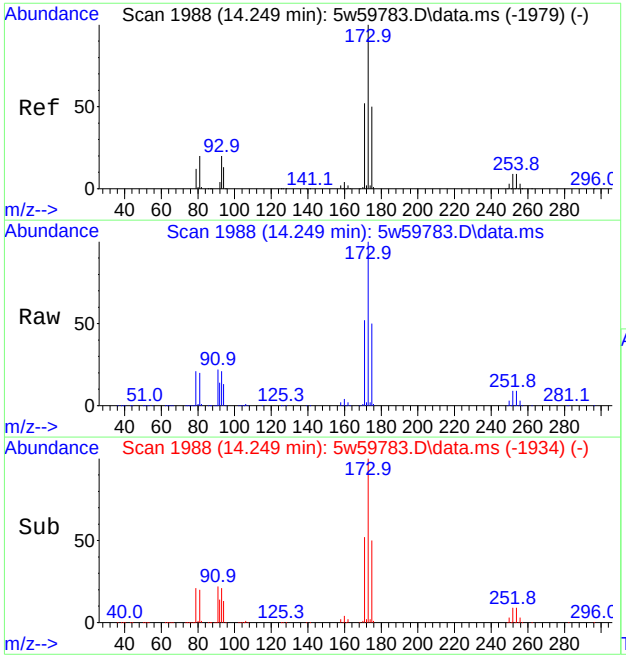


#83
NONANE
Concen: 10.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1167938

Ion	Ratio	Lower	Upper
43	100		
71	22.7	0.0	52.7
128	4.7	0.0	34.7

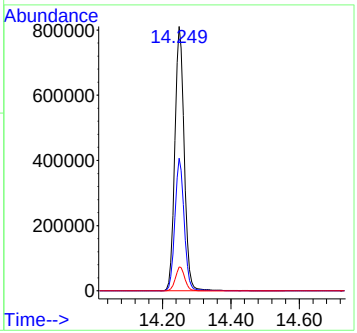


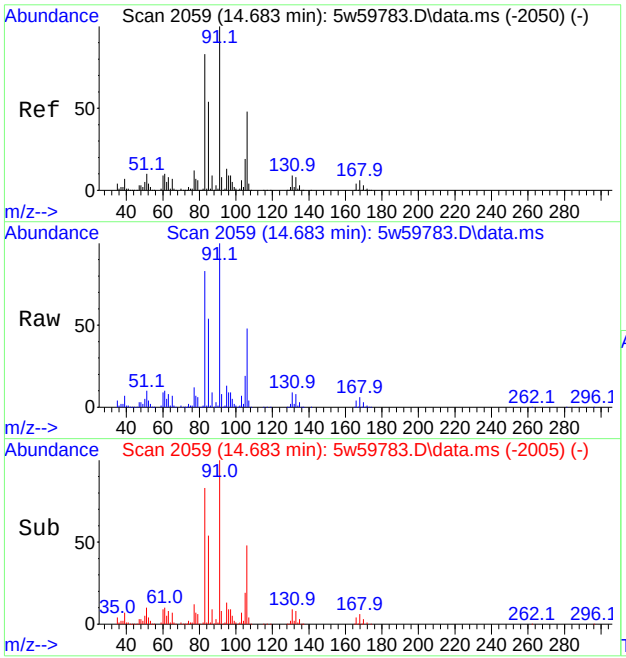


#84
BROMOFORM
Concen: 10.92 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:173 Resp: 1553327

Ion	Ratio	Lower	Upper
173	100		
175	49.6	19.6	79.6
254	9.0	0.0	39.0

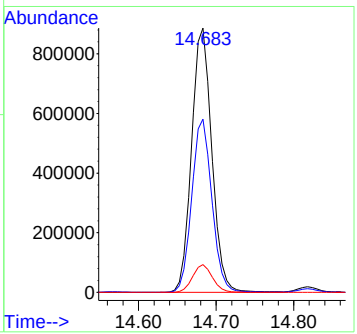


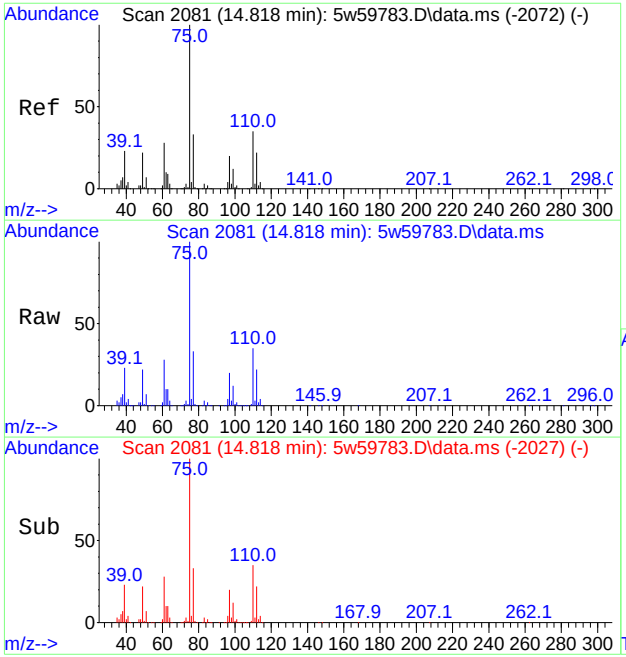


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.27 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1606320

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.2	95.2
131	10.3	0.0	40.3

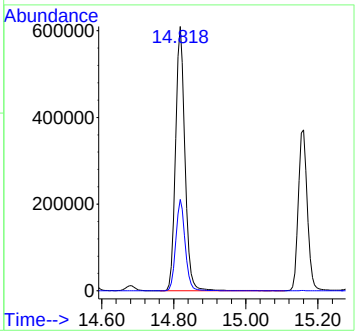


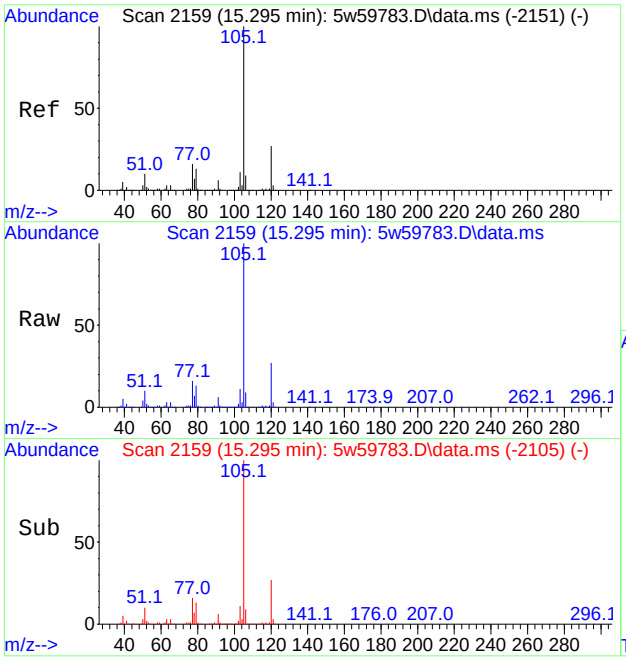


#87
1,2,3-TRICHLOROPROPANE
Concen: 9.96 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 1108756

Ion	Ratio	Lower	Upper
75	100		
110	34.4	4.4	64.4

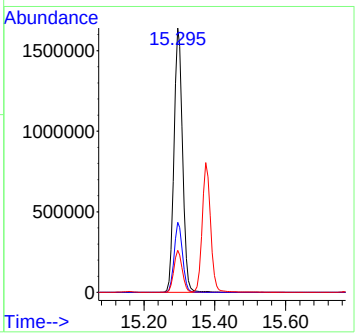


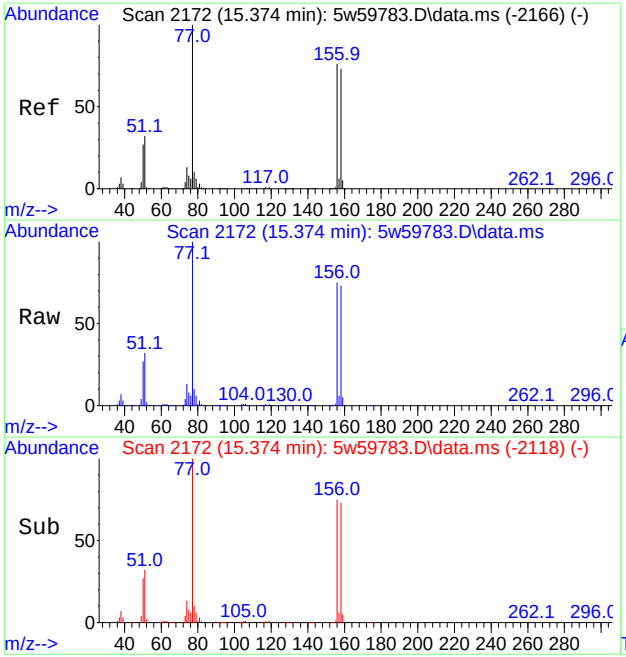


#88
ISOPROPYLBENZENE
Concen: 11.04 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2737713

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

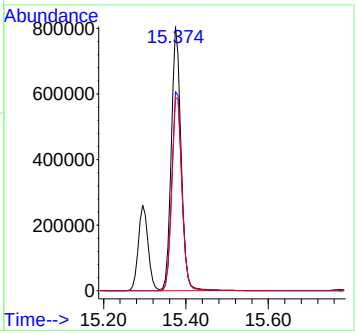


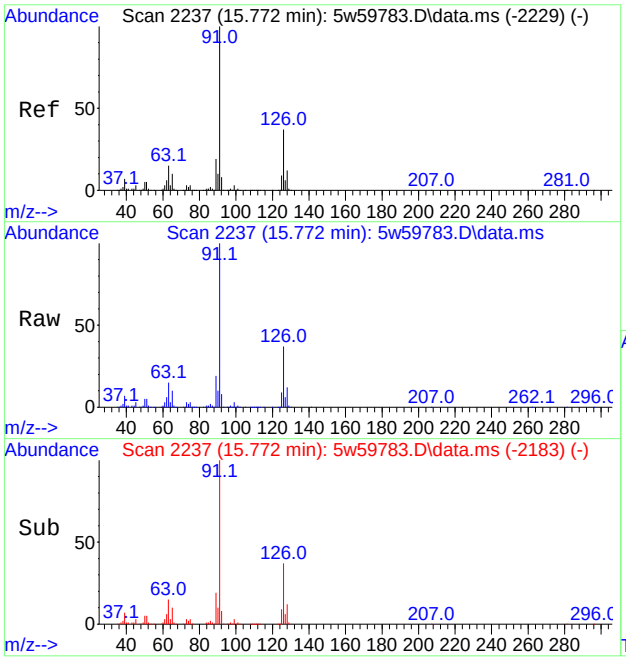


#89
BROMOBENZENE
Concen: 10.19 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 77 Resp: 1323542

Ion	Ratio	Lower	Upper
77	100		
156	78.4	54.9	101.9
158	76.4	53.5	99.3

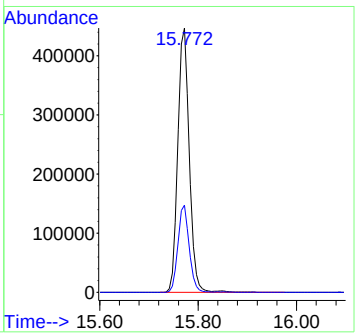


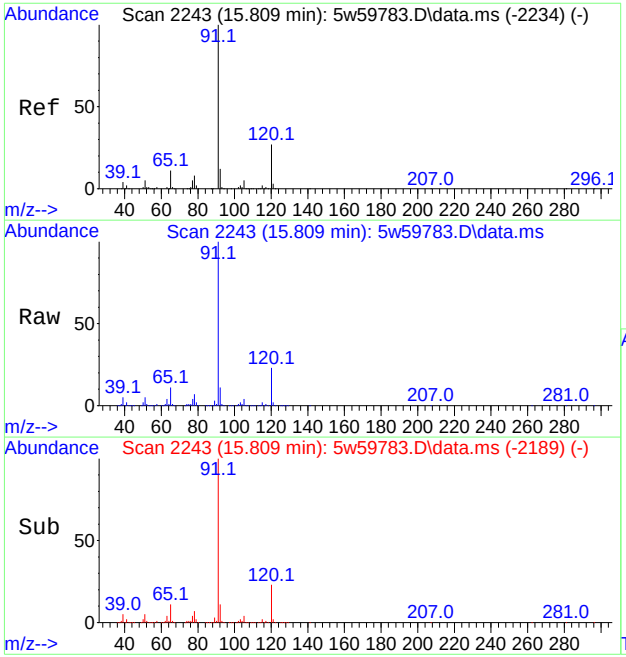


#90
2-CHLOROTOLUENE
Concen: 10.93 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:126 Resp: 723050

Ion	Ratio	Lower	Upper
126	100		
128	32.7	2.7	62.7

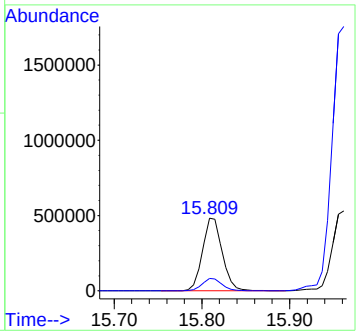


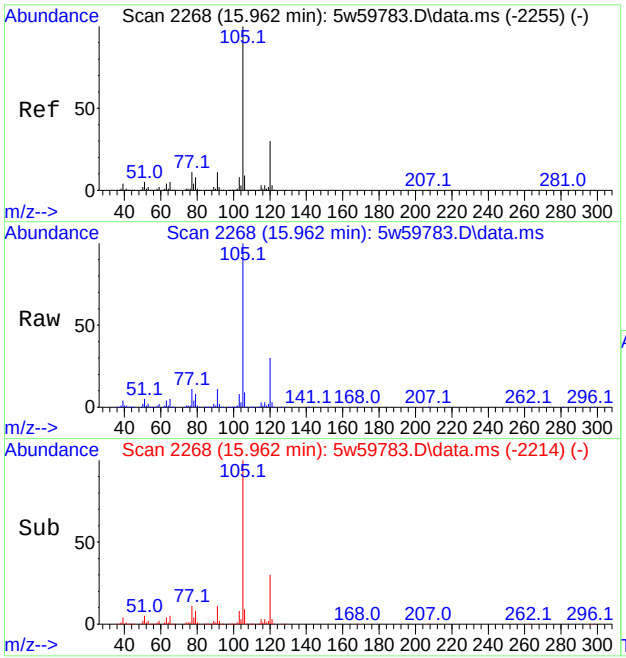


#91
n-PROPYLBENZENE
Concen: 11.44 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:120 Resp: 754817

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

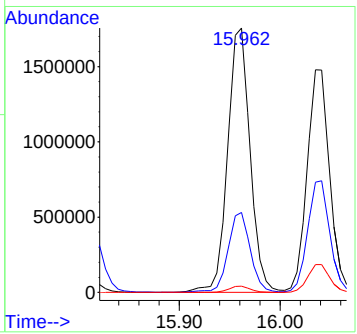


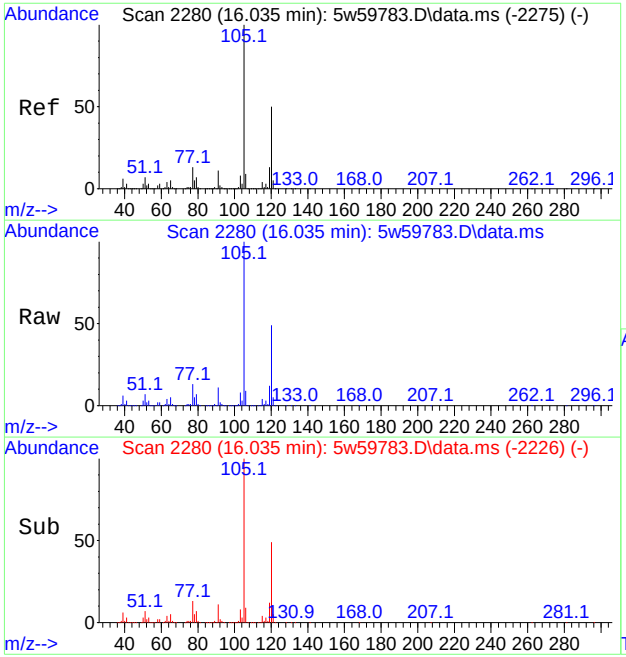


#92
4-ETHYLTOLUENE
Concen: 12.20 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2719805

Ion	Ratio	Lower	Upper
105	100		
120	29.9	0.0	59.9
119	2.3	0.0	32.3

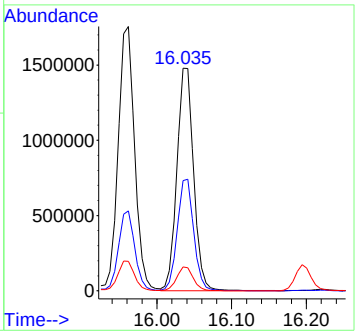


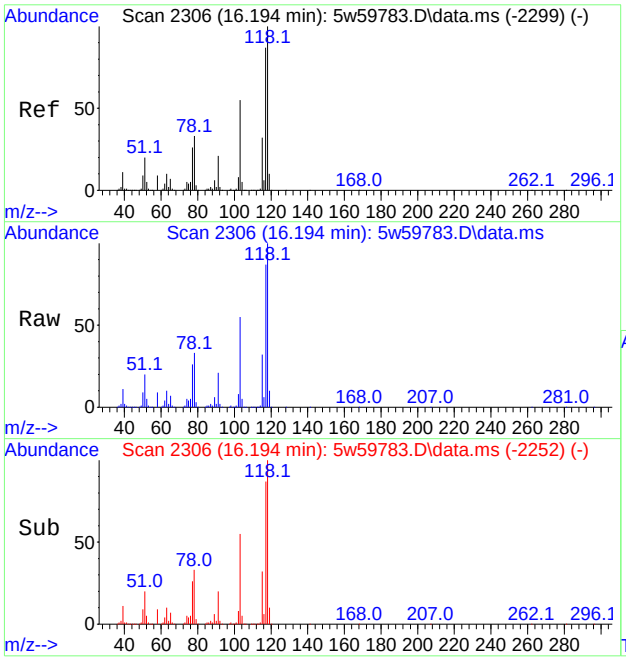


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.13 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2300675

Ion	Ratio	Lower	Upper
105	100		
120	49.4	19.4	79.4
91	10.8	0.0	40.7

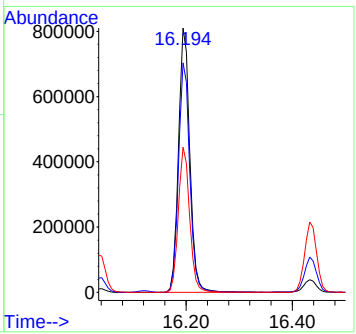


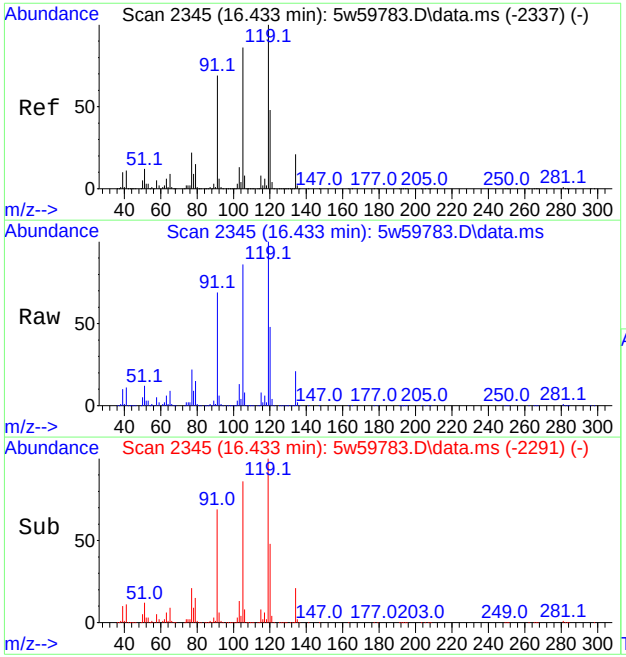


#94
ALPHA-METHYLSTYRENE
Concen: 12.09 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:118 Resp: 1195904

Ion	Ratio	Lower	Upper
118	100		
117	87.0	60.9	113.1
103	55.2	38.6	71.8

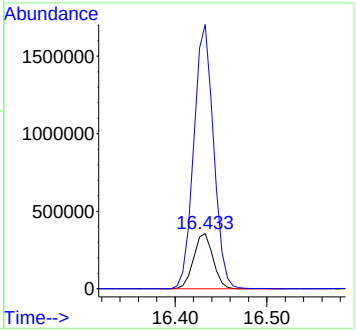


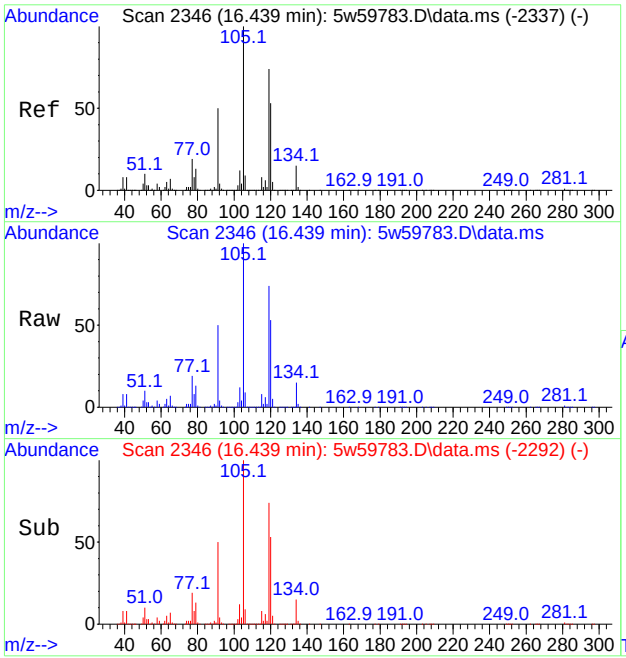


#95
tert-BUTYLBENZENE
Concen: 12.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 523380

Ion	Ratio	Lower	Upper
134	100		
119	489.3	459.3	519.3

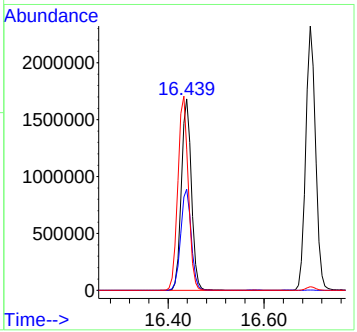


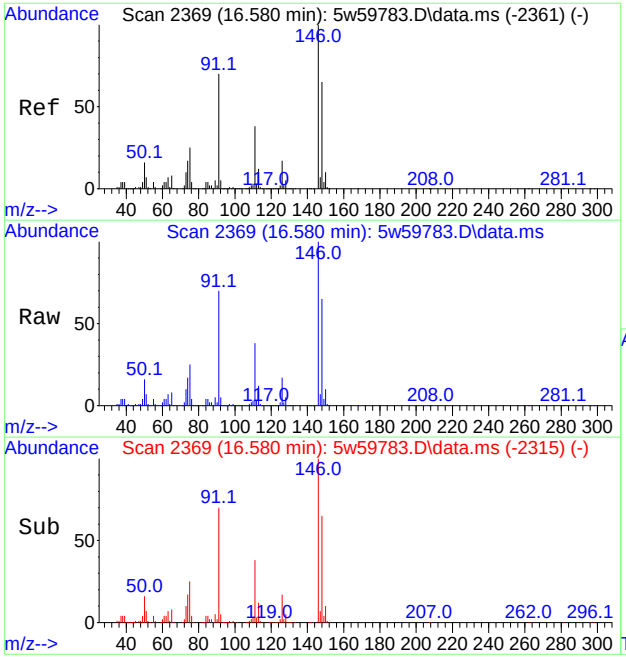


#96
1,2,4-TRIMETHYLBENZENE
Concen: 12.17 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2423323

Ion	Ratio	Lower	Upper
105	100		
120	55.7	25.7	85.7
119	105.7	75.7	135.7

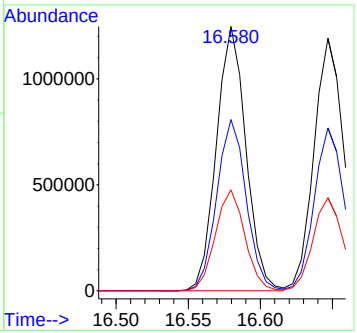


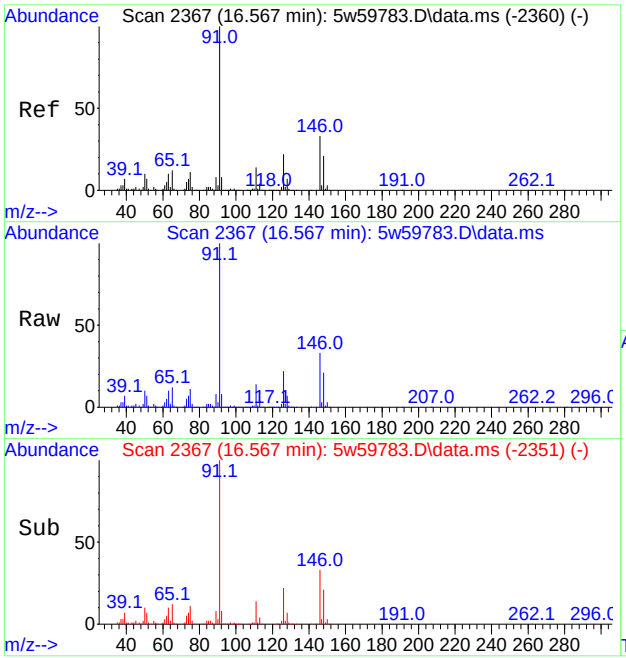


#97
m-DICHLOROBENZENE
Concen: 11.15 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1782947

Ion	Ratio	Lower	Upper
146	100		
148	64.8	34.8	94.8
111	38.2	8.2	68.2

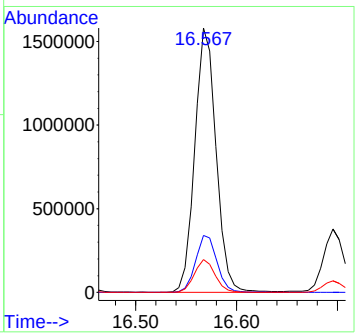


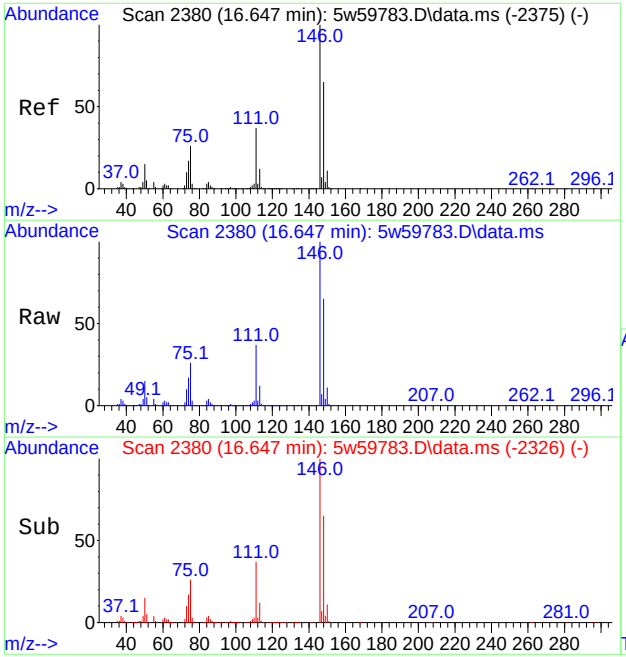


#98
BENZYL CHLORIDE
Concen: 12.73 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2316167

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.2	0.0	42.2

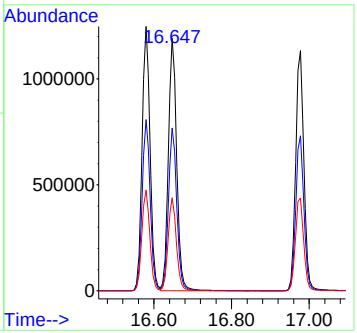


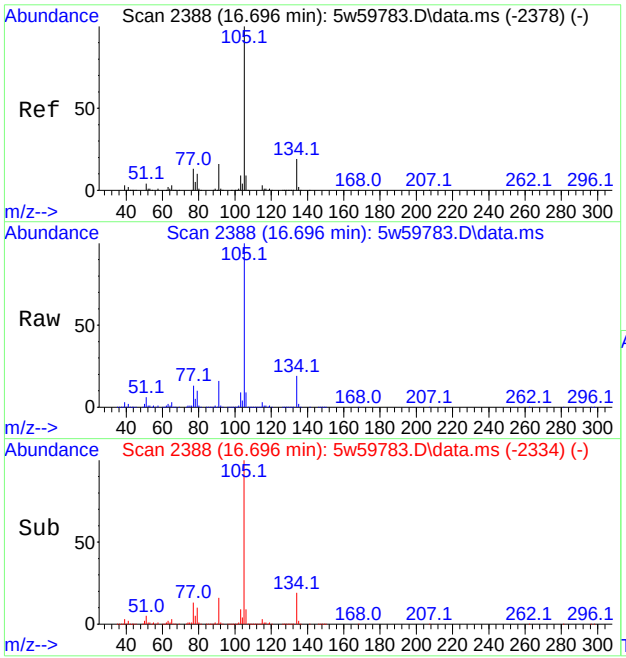


#99
p-DICHLOROBENZENE
Concen: 10.72 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1775311

Ion	Ratio	Lower	Upper
146	100		
148	64.6	34.6	94.6
111	36.7	6.7	66.7

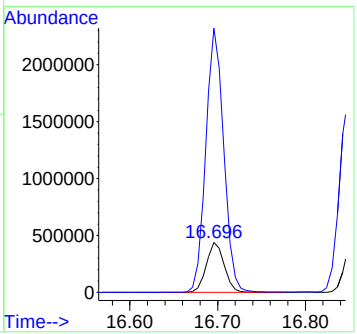


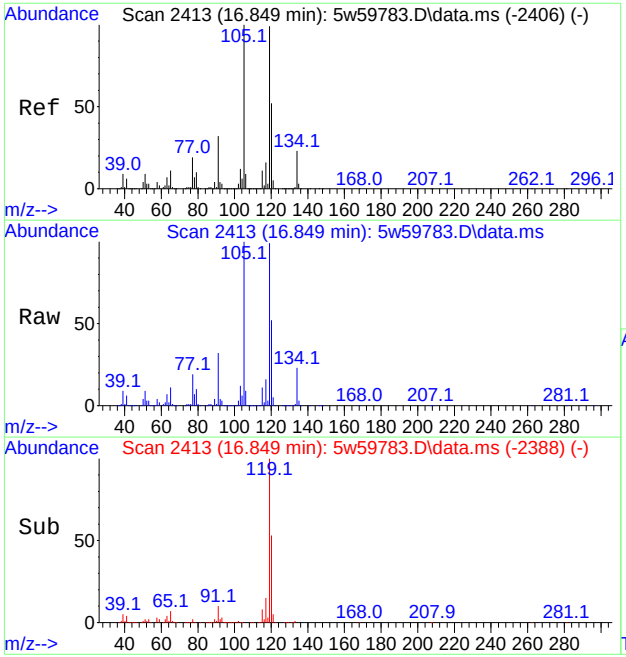


#100
sec-BUTYLBENZENE
Concen: 11.27 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 618616

Ion	Ratio	Lower	Upper
134	100		
105	532.5	502.5	562.5

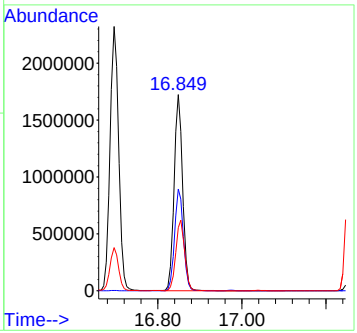


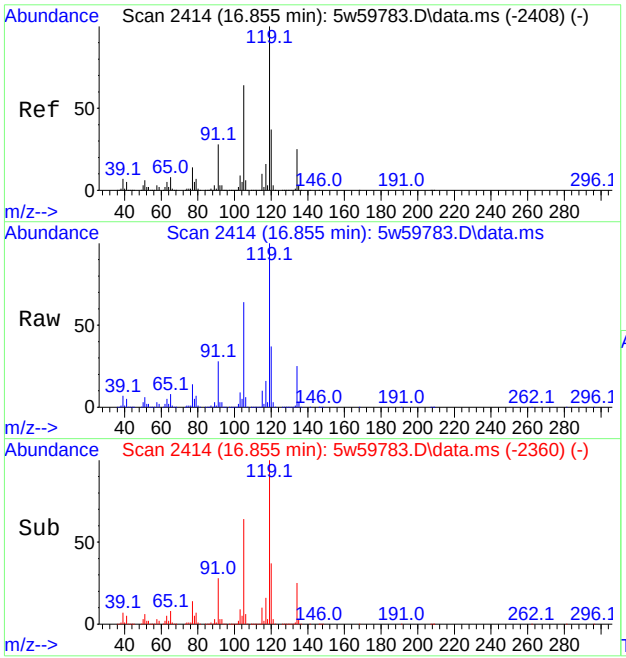


#101
1,2,3-TRIMETHYLBENZENE
Concen: 11.39 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2427524

Ion	Ratio	Lower	Upper
105	100		
120	53.5	23.5	83.5
91	37.4	7.4	67.4

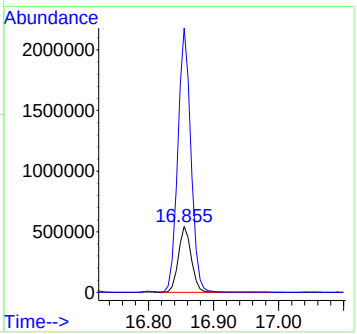


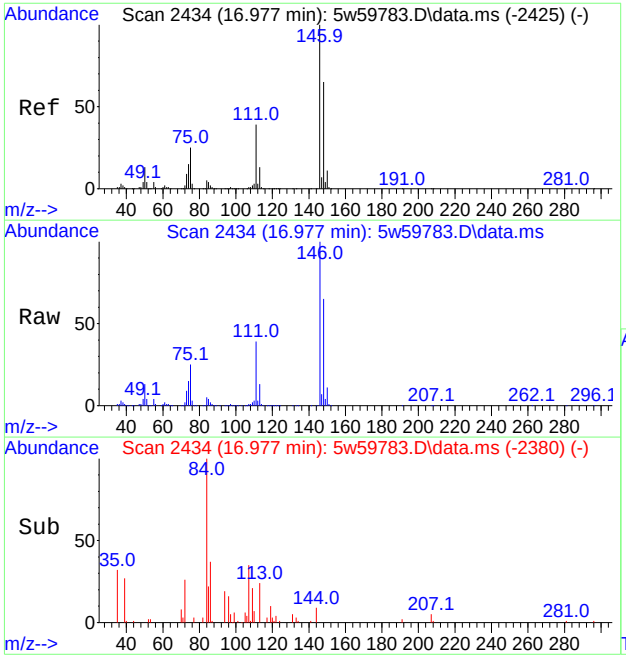


#102
p-ISOPROPYLTOLUENE
Concen: 11.87 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 746734

Ion	Ratio	Lower	Upper
134	100		
119	407.7	377.7	437.7

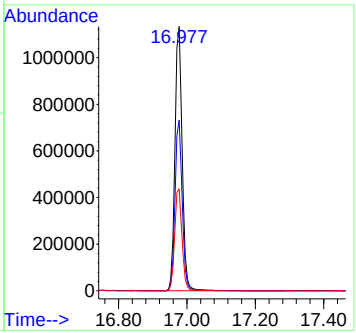


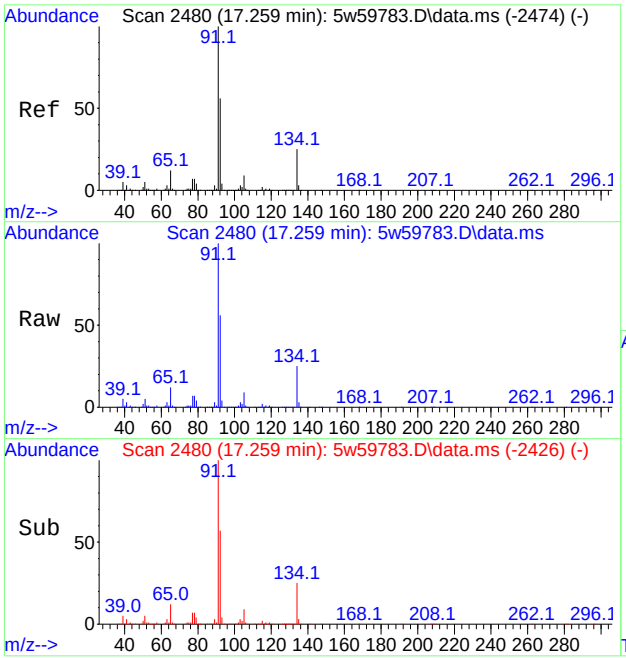


#103
o-DICHLOROBENZENE
Concen: 10.31 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1665215

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.3	94.3
111	39.2	9.2	69.2

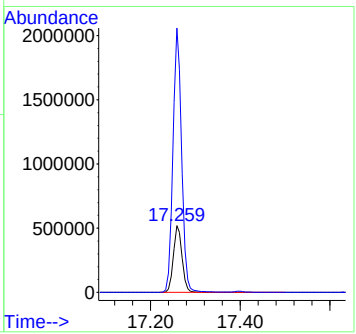


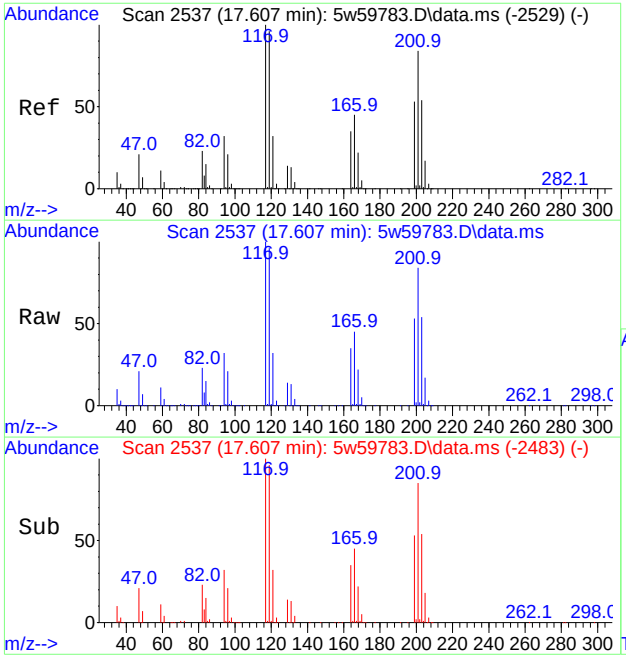


#104
n-BUTYLBENZENE
Concen: 12.21 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 703045

Ion	Ratio	Lower	Upper
134	100		
91	393.1	363.1	423.1

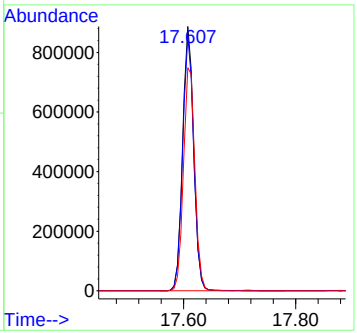


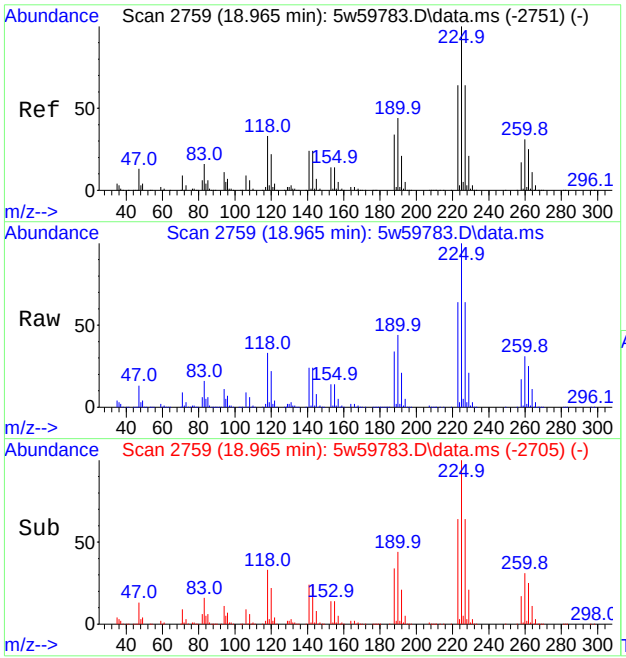


#105
HEXACHLOROETHANE
Concen: 11.22 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1210974

Ion	Ratio	Lower	Upper
117	100		
119	96.0	67.2	124.8
201	87.3	61.1	113.5

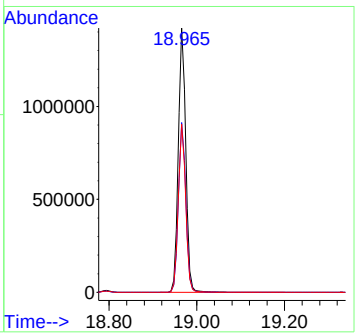


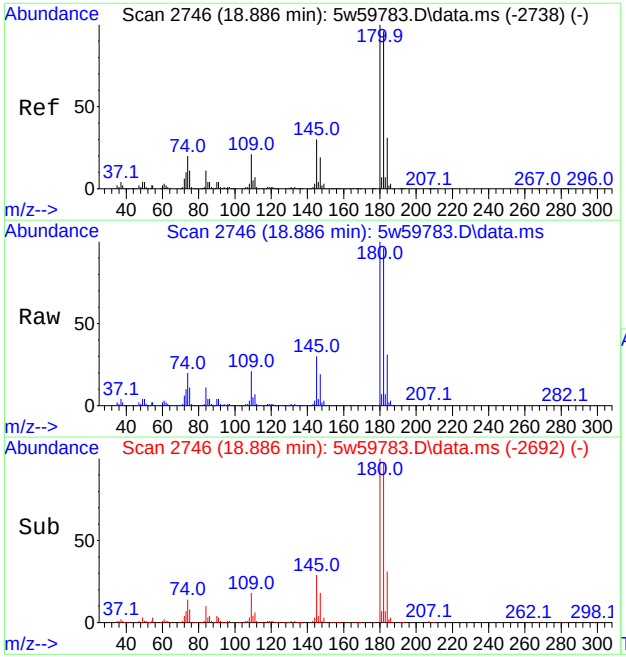


#106
HEXACHLOROBUTADIENE
Concen: 9.84 PPBV
RT: 18.965 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:225 Resp: 1667734

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.3	33.3	93.3

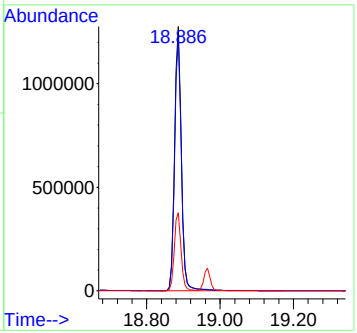


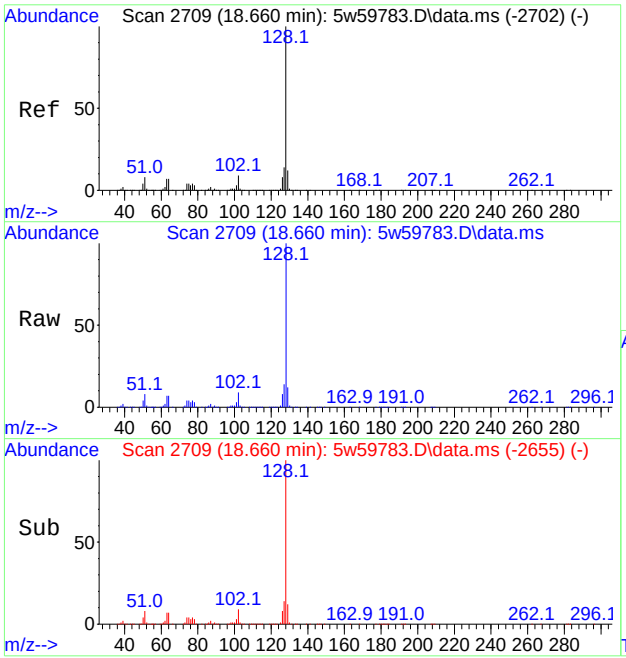


#107
1,2,4-TRICHLOROBENZENE
Concen: 14.54 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:180 Resp: 1638870

Ion	Ratio	Lower	Upper
180	100		
182	95.4	65.4	125.4
145	29.4	0.0	59.4

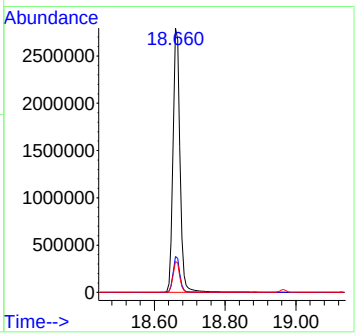




#108
NAPHTHALENE
Concen: 14.35 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

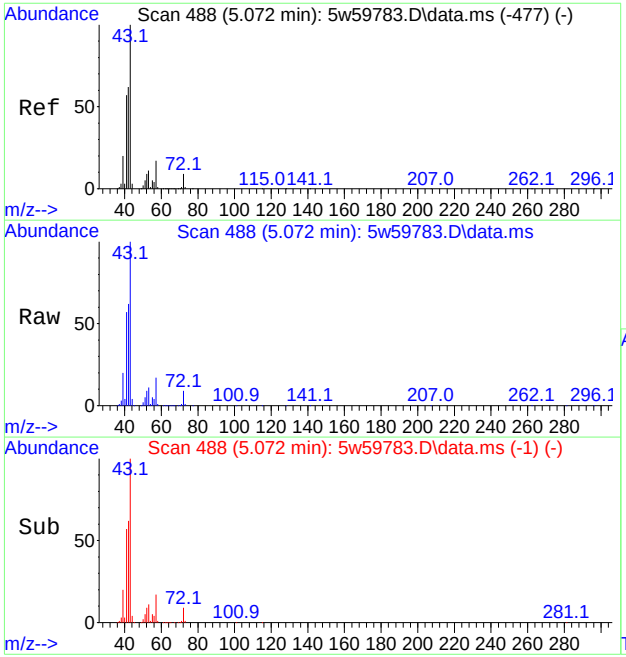
Tgt Ion:128 Resp: 3829842

Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	43.3
129	11.4	0.0	41.5



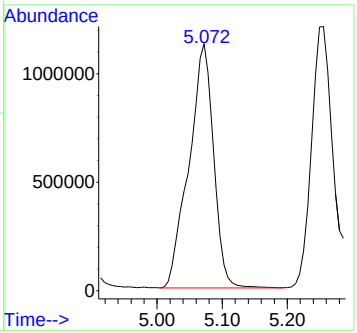
7.7.6

7



#110
TVHC as equiv Pentane
Concen: 8.08 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:TIC Resp: 2959189



Manual Integration Approval Summary

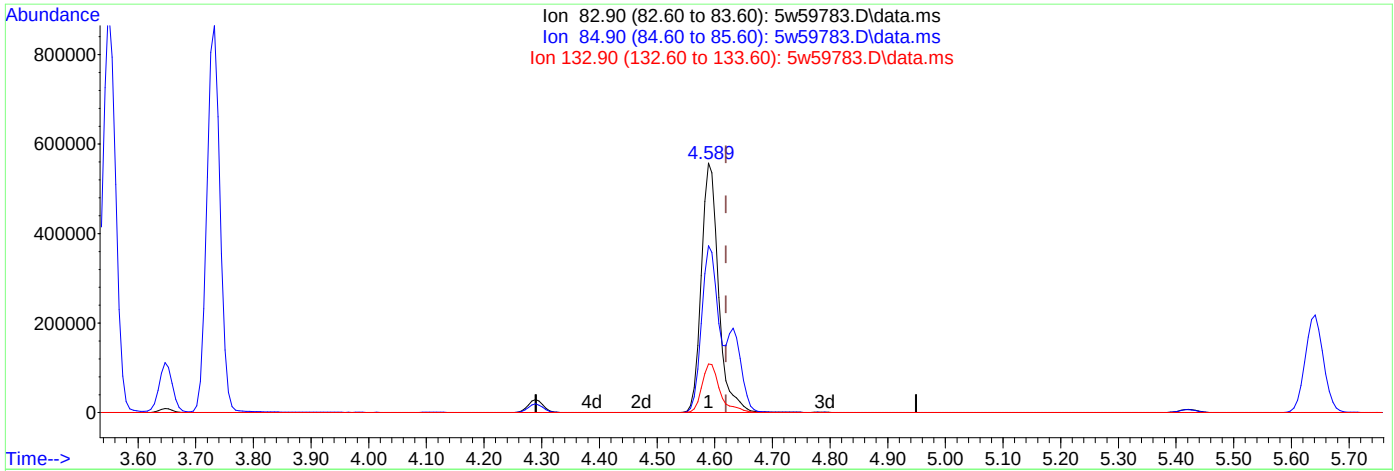
Sample Number: V5W2292-ICC2292 **Method:** TO-15
Lab FileID: 5W59783.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 07:33 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

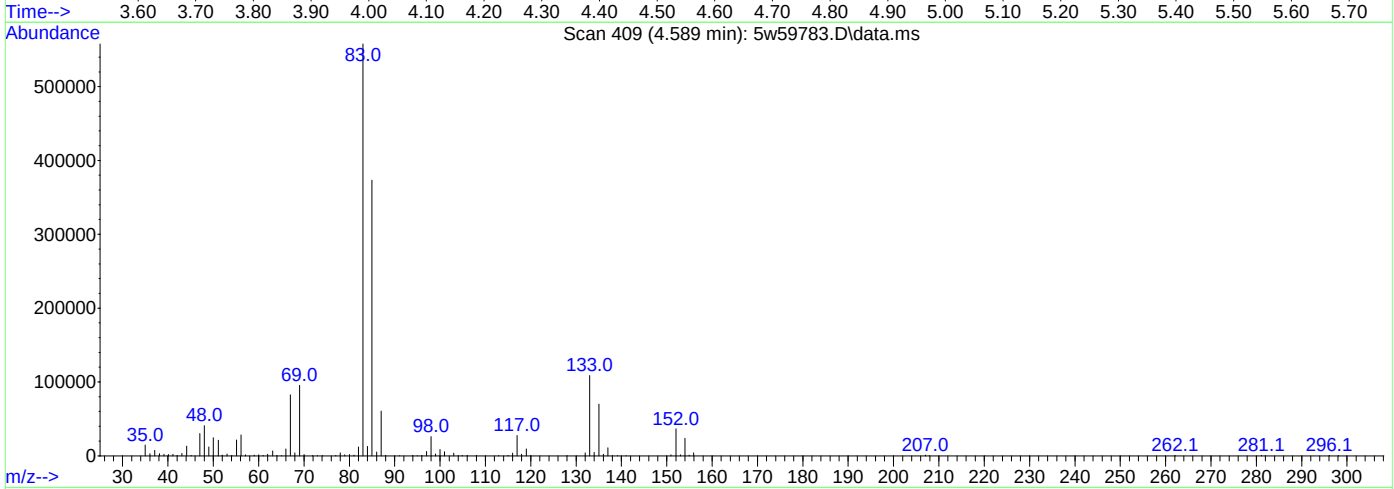
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration





TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (-0.031) 9.91PPBV

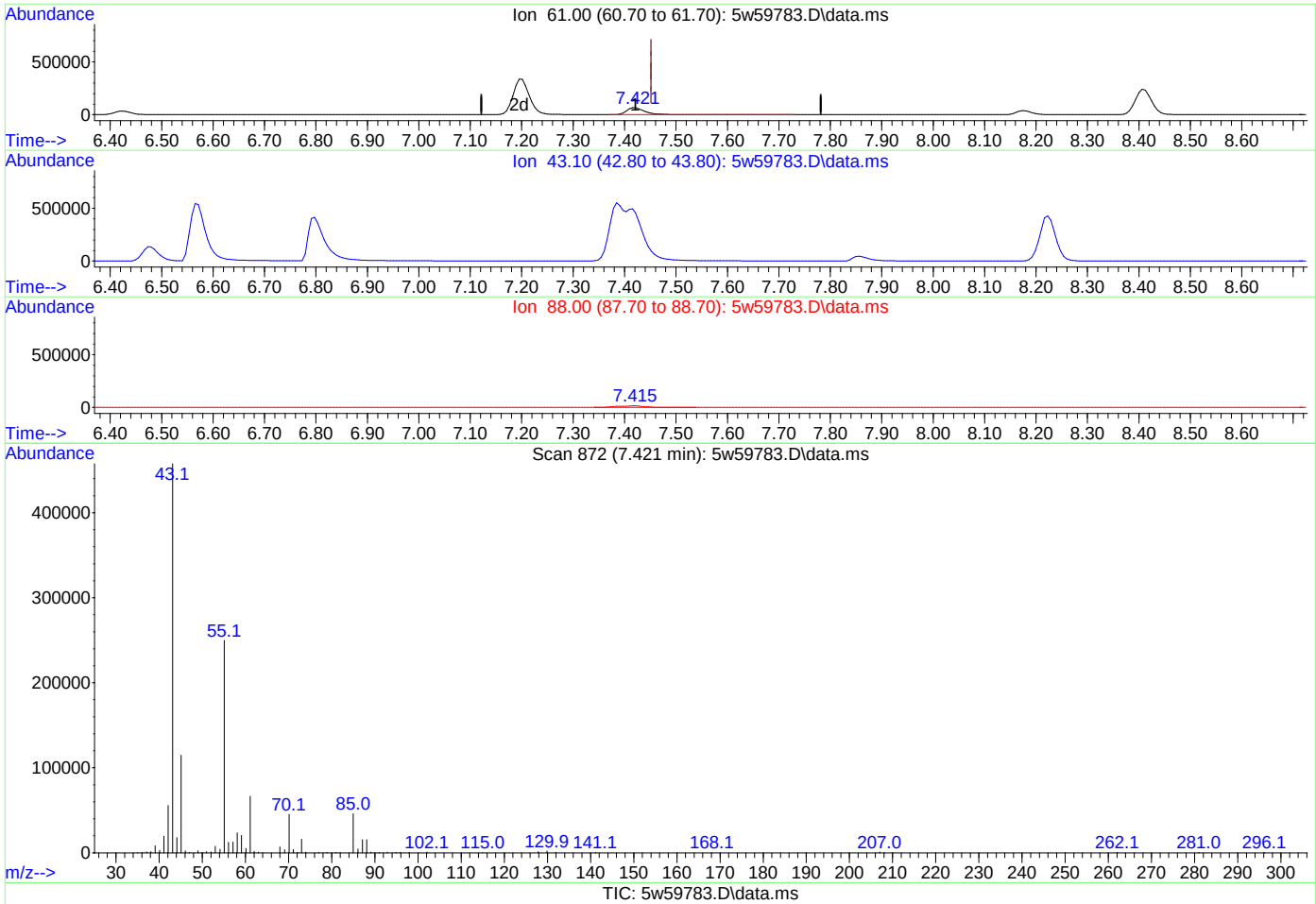
response 1157483

Ion	Exp%	Act%
82.90	100	100
84.90	94.90	94.40
132.90	27.20	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (-0.031) 10.63PPBV

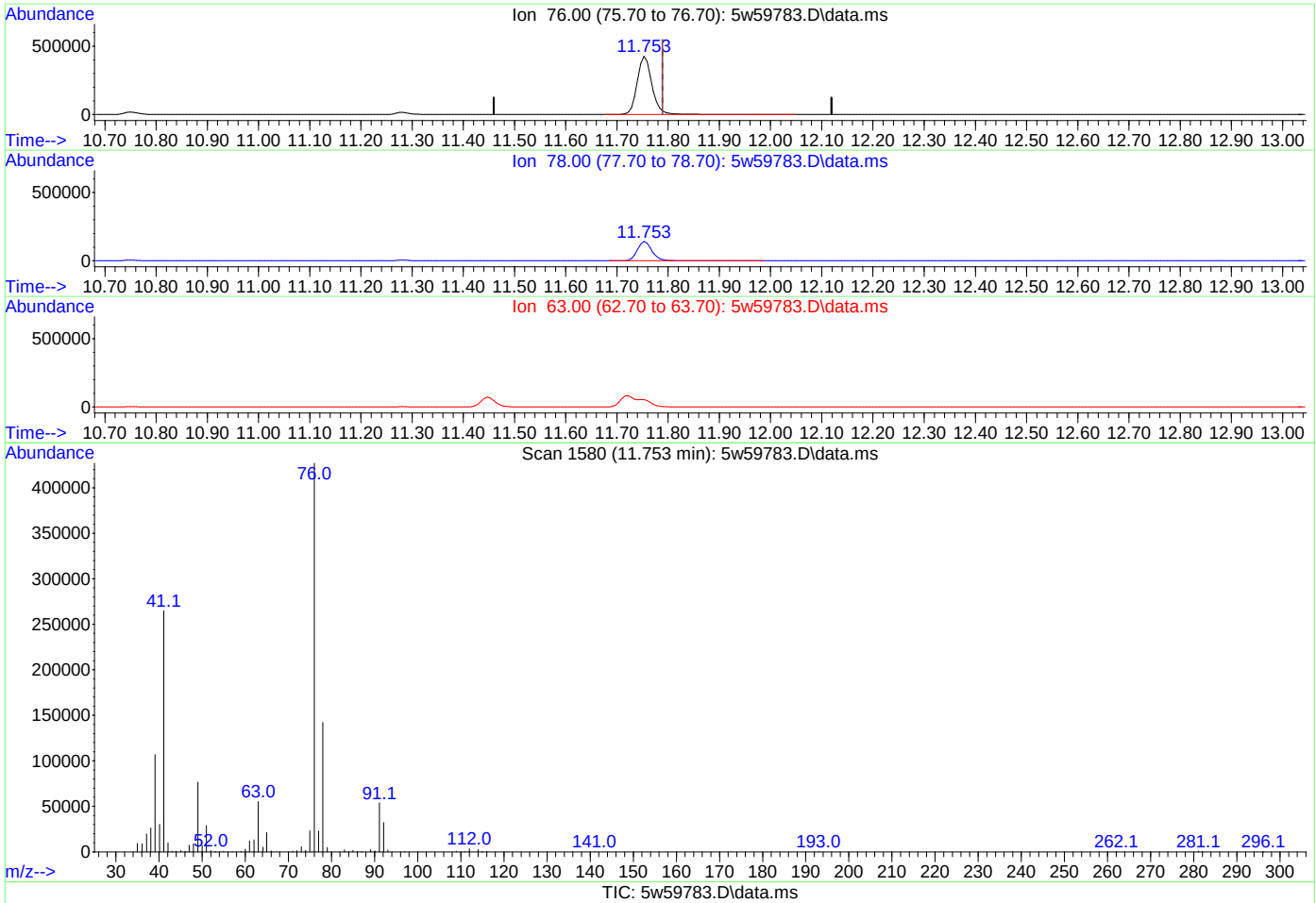
response 169787

Ion	Exp%	Act%
61.00	100	100
43.10	0.00	0.00
88.00	34.00	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (-0.037) 10.74PPBV

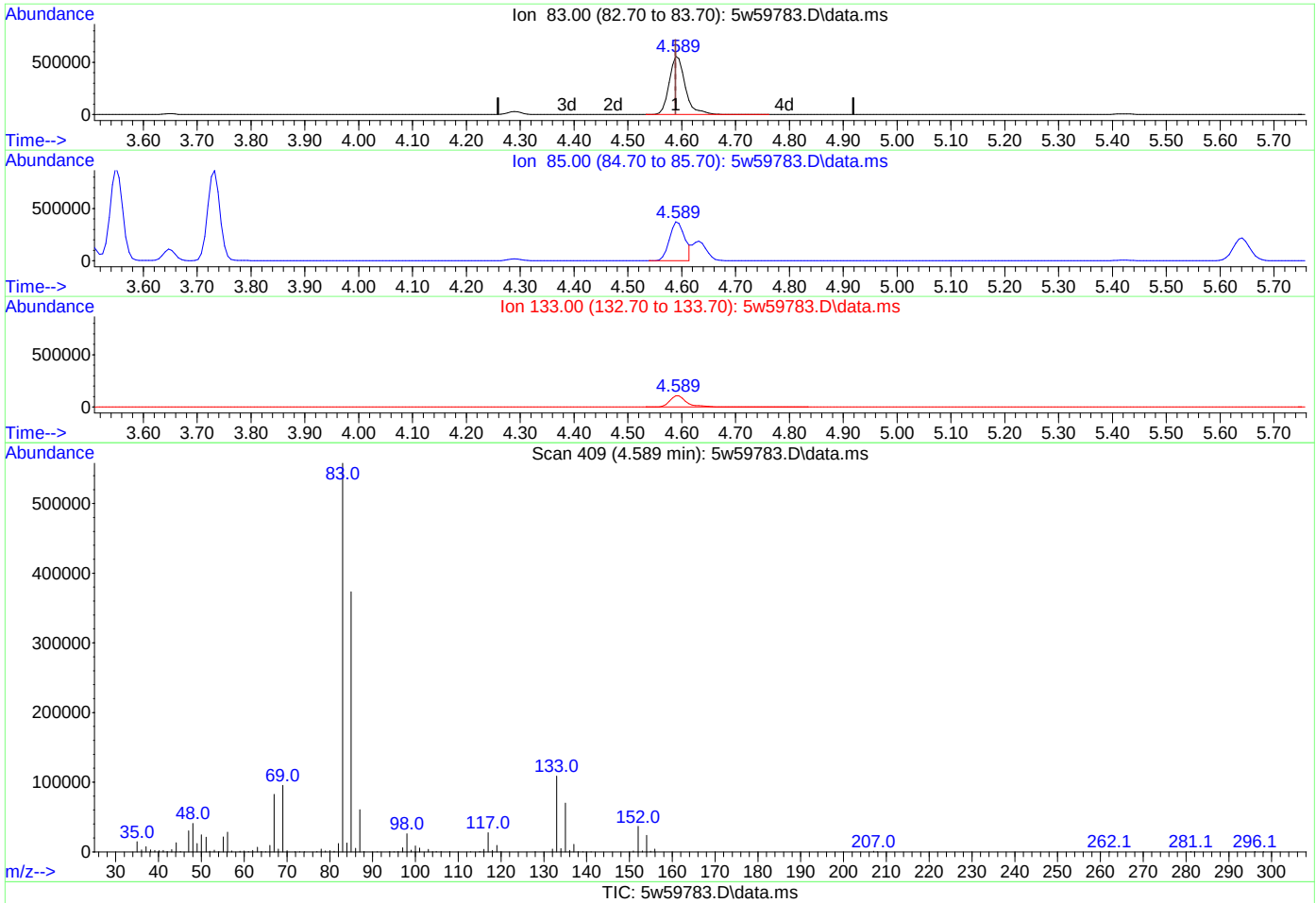
response 865913

Ion	Exp%	Act%
76.00	100	100
78.00	32.00	33.09
63.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (0.000) 9.93PPBV m

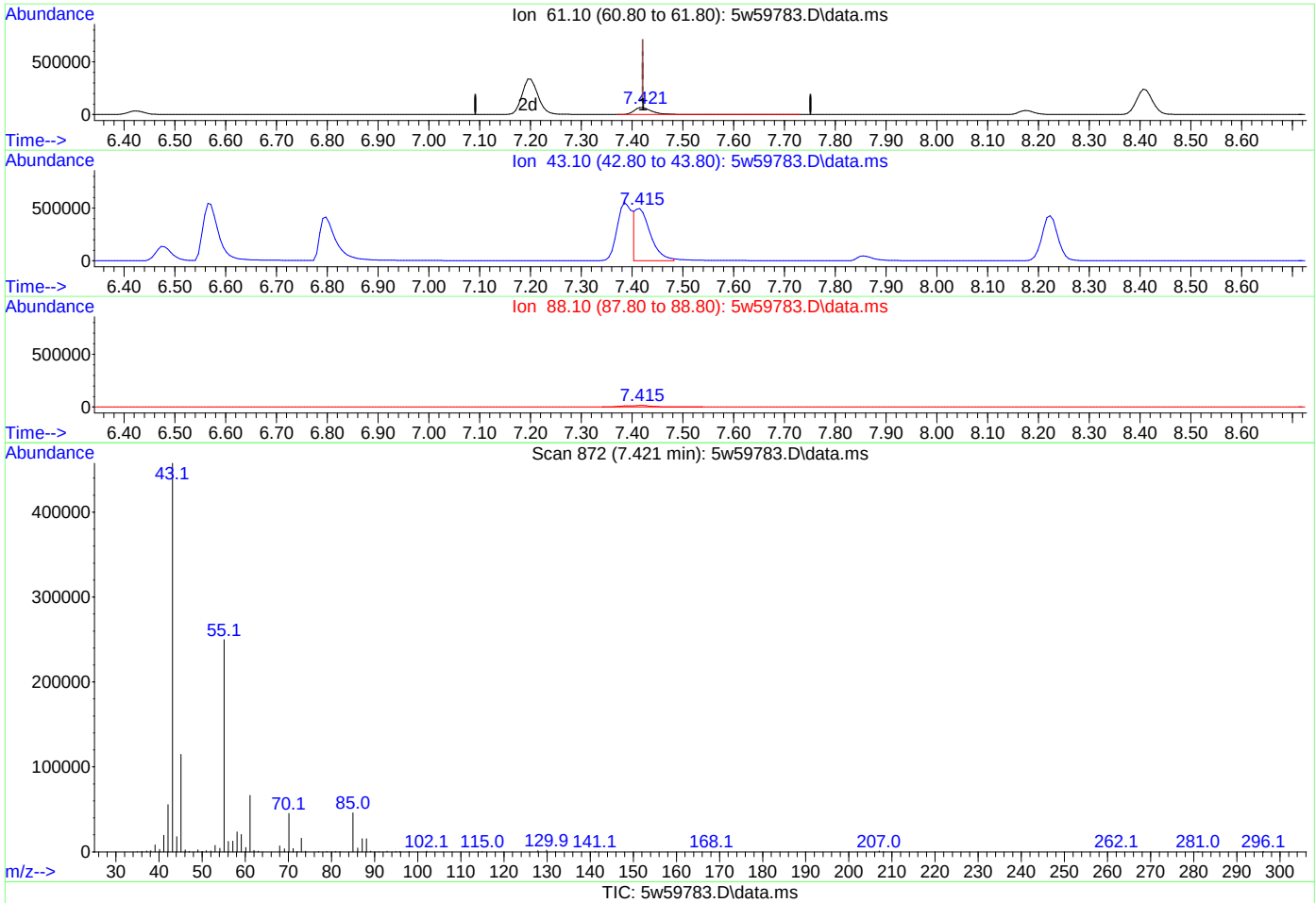
response 1157483

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.96
133.00	20.70	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (0.000) 10.80PPBV m

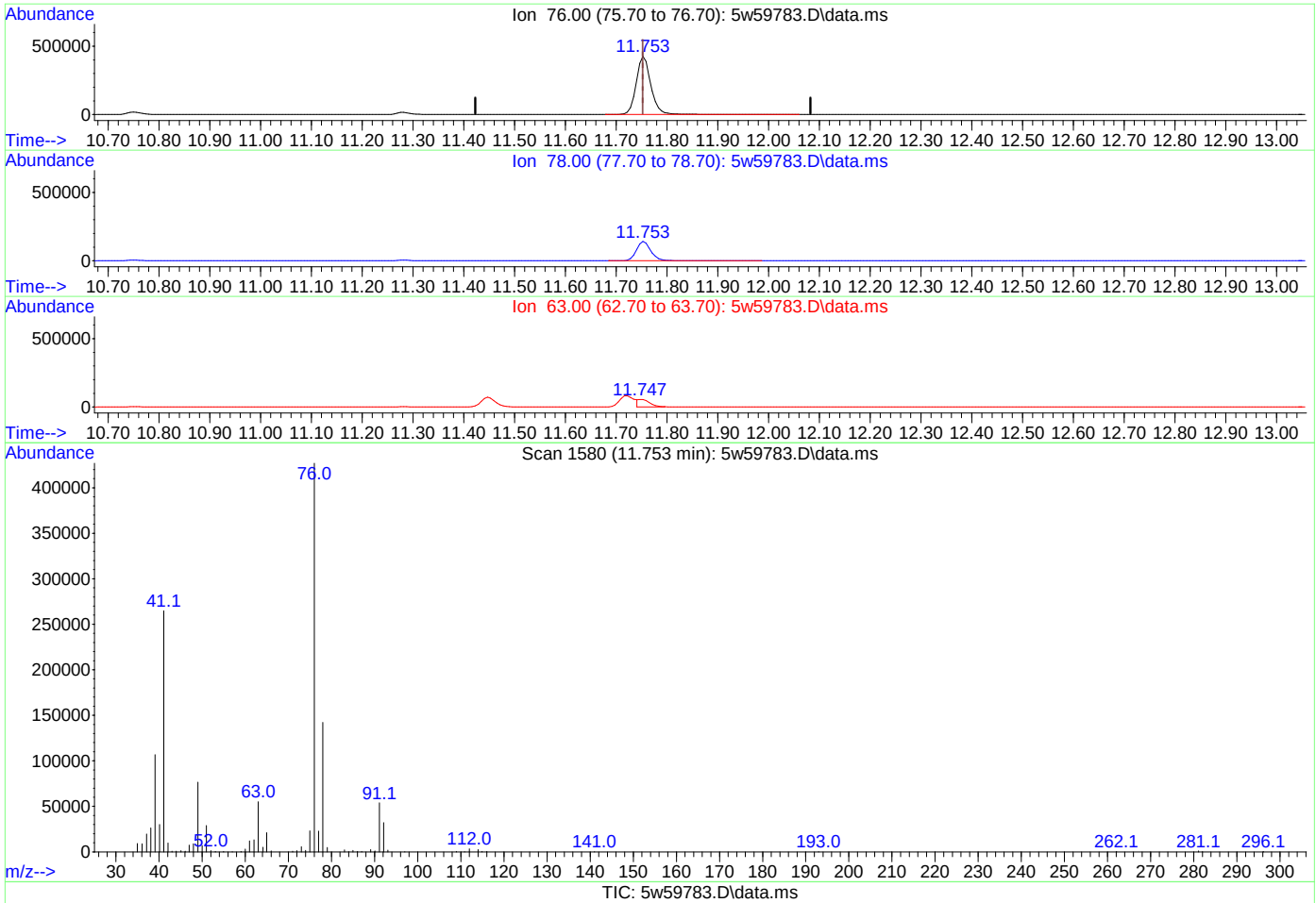
response 169787

Ion	Exp%	Act%
61.10	100	100
43.10	611.30	590.54
88.10	34.50	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (0.000) 10.80PPBV m

response 866163

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.08
63.00	10.30	10.05
0.00	0.00	0.00

5W59784.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	450013	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	1932450	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1113631	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	450746	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1356787	9.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	450963	7.75	PPBV	100
3) FREON 152A	3.445	65	629601	18.20	PPBV	98
4) CHLORODIFLUOROMETHANE	3.476	67	306106	19.32	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	1520054	20.38	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	2793626	18.80	PPBV	99
7) PROPYLENE	3.500	41	679227	17.76	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	2117806	15.73	PPBV	99
9) FREON 114	3.733	85	2612576	20.44	PPBV	99
10) CHLOROMETHANE	3.665	52	274402	17.35	PPBV	100
11) VINYL CHLORIDE	3.818	62	907868	18.27	PPBV	99
12) 1,3-BUTADIENE	3.916	54	526623m	15.76	PPBV	
13) n-BUTANE	3.947	43	848889	14.02	PPBV	99
14) BROMOMETHANE	4.106	94	947413	19.40	PPBV	100
15) CHLOROETHANE	4.228	64	401918	17.76	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1915216	16.60	PPBV	100
17) ACETONITRILE	4.479	41	467576	13.59	PPBV	99
18) ACROLEIN	4.571	56	282182	15.70	PPBV	95
19) FREON 123	4.595	83	2144663m	18.75	PPBV	
20) FREON 123A	4.632	117	1303591	18.34	PPBV	97
21) TRICHLOROFLUOROMETHANE	4.797	101	2321202	14.25	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	1635668	14.11	PPBV	99
23) ACETONE	4.669	58	334468	16.18	PPBV	99
24) PENTANE	5.072	42	880198	14.37	PPBV	99
25) IODOMETHANE	5.256	142	3031933	20.19	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	959349	17.96	PPBV	99
27) CARBON DISULFIDE	5.672	76	2608827	18.51	PPBV	99
28) ETHANOL	4.320	45	298730	13.05	PPBV	99
29) BROMOETHENE	4.485	106	957242	20.43	PPBV	100
30) ACRYLONITRILE	5.042	52	624246	17.51	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	836157	17.45	PPBV	98
32) 3-CHLOROPROPENE	5.525	76	430205	19.53	PPBV	96
33) FREON 113	5.641	151	1722837	18.38	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	990650	18.16	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.372	59	1868378	16.33	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	2584253	19.14	PPBV	99
37) TETRAHYDROFURAN	7.850	72	399188	22.19	PPBV	98
38) HEXANE	7.385	57	1526495	20.27	PPBV	96
39) VINYL ACETATE	6.571	86	179566	19.94	PPBV #	89
40) 1,1-DICHLOROETHANE	6.424	63	1823762	18.32	PPBV	100
41) METHYL ETHYL KETONE	6.791	72	430294	22.94	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	1068157	19.00	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	472029	23.11	PPBV	94
44) ETHYL ACETATE	7.415	61	340212m	22.04	PPBV	
45) METHYL ACRYLATE	7.409	55	1885856	21.07	PPBV	99
46) CHLOROFORM	7.483	83	2134176	18.57	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	1747860	19.75	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.413	97	2289683	18.23	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	2555242	18.43	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	1561332	19.15	PPBV		100
52)	BENZENE	8.853	78	2903342	22.68	PPBV		100
53)	CYCLOHEXANE	9.110	84	1139585	22.41	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.355	71	573637	22.39	PPBV		100
55)	TRICHLOROETHYLENE	9.893	95	1474907	21.65	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	1173566	21.61	PPBV		100
57)	DIBROMOMETHANE	9.636	174	1578012	21.13	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	2306359	23.37	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	2548286	21.01	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	4564310	20.94	PPBV		99
61)	1,4-DIOXANE	9.893	88	653321	24.77	PPBV	#	20
62)	HEPTANE	10.187	43	1555190	19.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	1000168	25.22	PPBV		99
64)	METHYL ISOBUTYL KETONE	10.786	58	969468	23.79	PPBV		97
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1985103	23.56	PPBV		97
66)	TOLUENE	11.722	92	2187710	23.93	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	1738240m	22.65	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	1772531	22.91	PPBV		98
69)	1,1,2-TRICHLOROETHANE	11.447	83	1196566	23.91	PPBV		100
71)	2-HEXANONE	12.004	58	1425280	25.09	PPBV		96
72)	ETHYL METHACRYLATE	12.022	69	1817206	25.28	PPBV		97
73)	TETRACHLOROETHYLENE	12.879	164	1702539	20.29	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	2900352	20.55	PPBV		99
75)	1,2-DIBROMOETHANE	12.395	107	2366337	22.95	PPBV		100
76)	OCTANE	12.744	43	2238080	18.84	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	1899714	20.52	PPBV		100
78)	CHLOROBENZENE	13.582	112	3046547	20.02	PPBV		99
79)	ETHYLBENZENE	13.986	91	4800136	22.00	PPBV		99
80)	m,p-XYLENE	14.188	106	3838940	46.33	PPBV		95
81)	o-XYLENE	14.683	106	1866956	24.57	PPBV		98
82)	STYRENE	14.573	104	2939414	25.25	PPBV		99
83)	NONANE	14.934	43	2271246	19.27	PPBV		98
84)	BROMOFORM	14.249	173	3083788	21.19	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	3171683	23.67	PPBV		99
87)	1,2,3-TRICHLOROPROPANE	14.818	75	2166410	19.01	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	5426205	21.38	PPBV		99
89)	BROMOBENZENE	15.375	77	2635582	19.84	PPBV		99
90)	2-CHLOROTOLUENE	15.772	126	1458347	21.55	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	1498983	22.21	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	5359201	23.50	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	4517483	21.37	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	2401651	23.73	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1027177	23.44	PPBV		95
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	4619537	22.68	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	3436542	21.01	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	4433280	23.83	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	3529112	20.84	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	1236753	22.03	PPBV		92
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	4652009	21.34	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	1464768	22.76	PPBV		94
103)	o-DICHLOROBENZENE	16.977	146	3353483	20.30	PPBV		99
104)	n-BUTYLBENZENE	17.265	134	1447206	24.56	PPBV		93
105)	HEXACHLOROETHANE	17.608	117	2435886	22.06	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	3259497	18.79	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	3337105	28.94	PPBV		100
108)	NAPHTHALENE	18.666	128	7329968	26.85	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	5936529	16.52	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

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

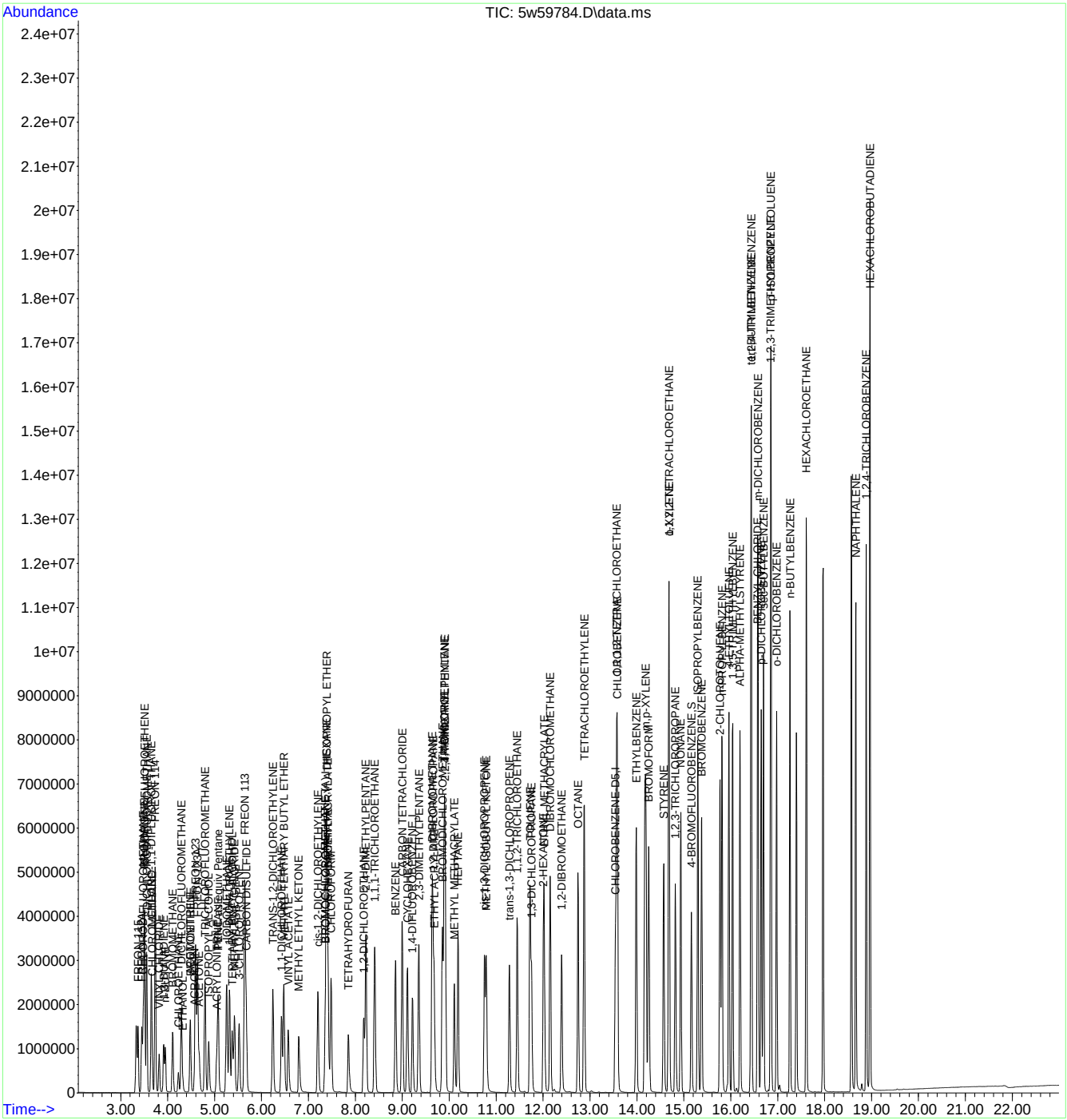
(#) = qualifier out of range (m) = manual integration (+) = signals summed

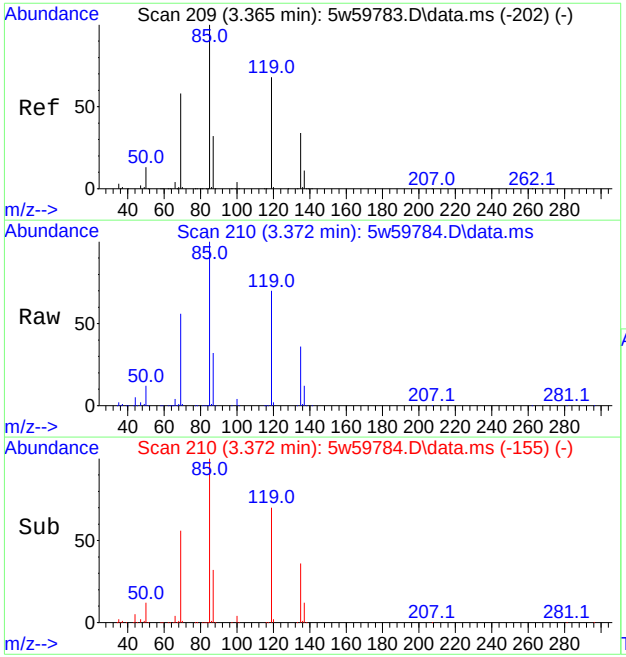
7.7.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

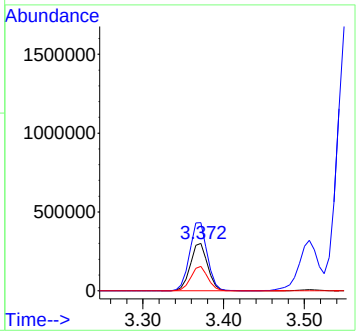


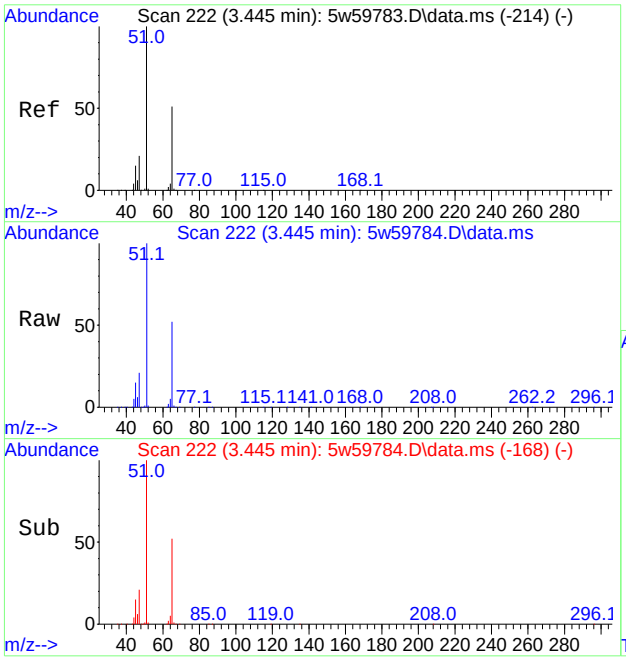


#2
FREON 115
Concen: 7.75 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:119 Resp: 450963

Ion	Ratio	Lower	Upper
119	100		
85	146.0	116.2	176.2
135	50.3	20.6	80.6

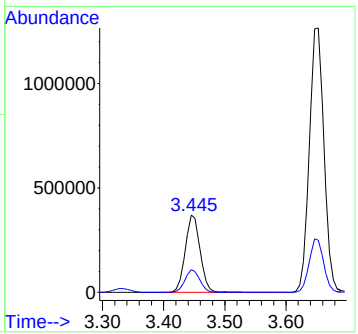


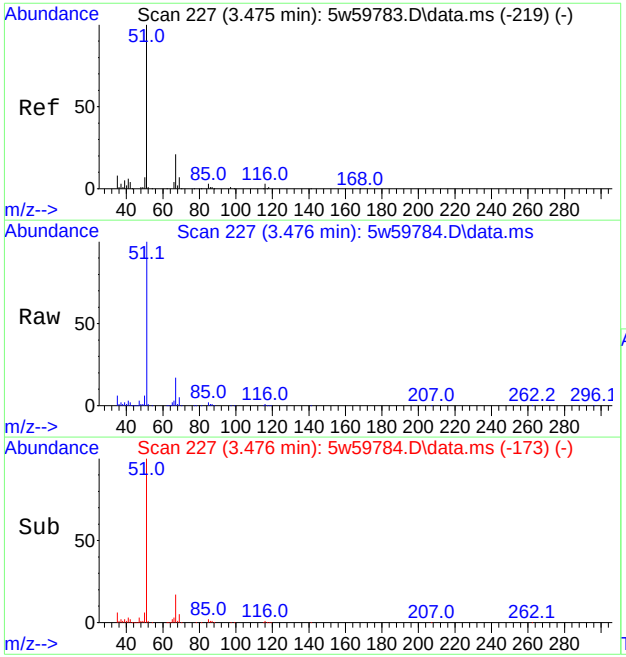


#3
FREON 152A
Concen: 18.20 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 629601

Ion	Ratio	Lower	Upper
65	100		
45	29.1	0.0	60.0

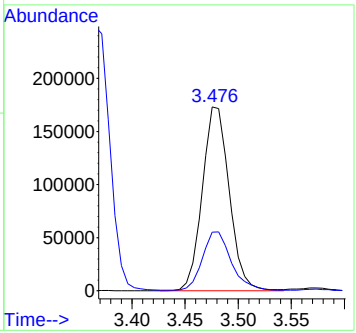


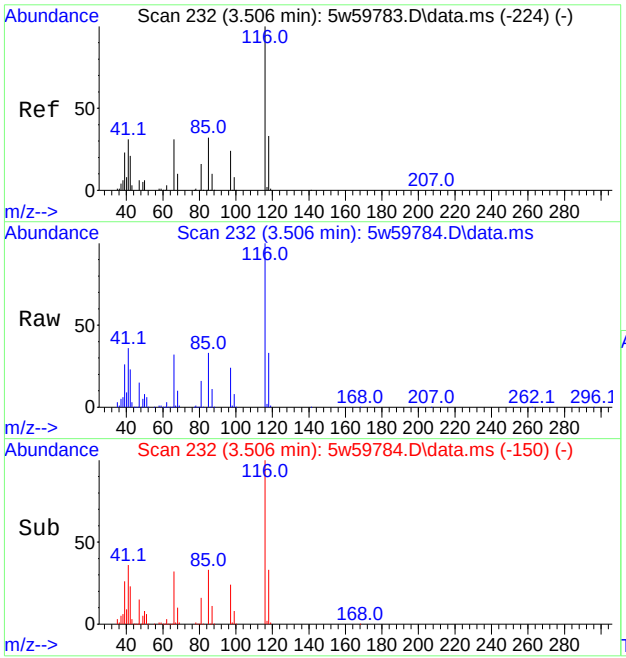


#4
CHLORODIFLUOROMETHANE
Concen: 19.32 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 306106

Ion	Ratio	Lower	Upper
67	100		
69	31.9	1.0	61.0

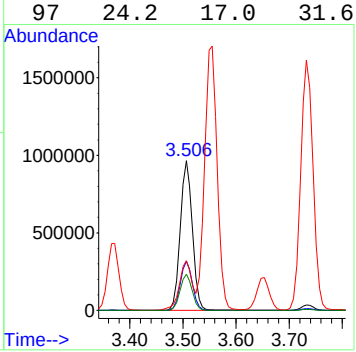


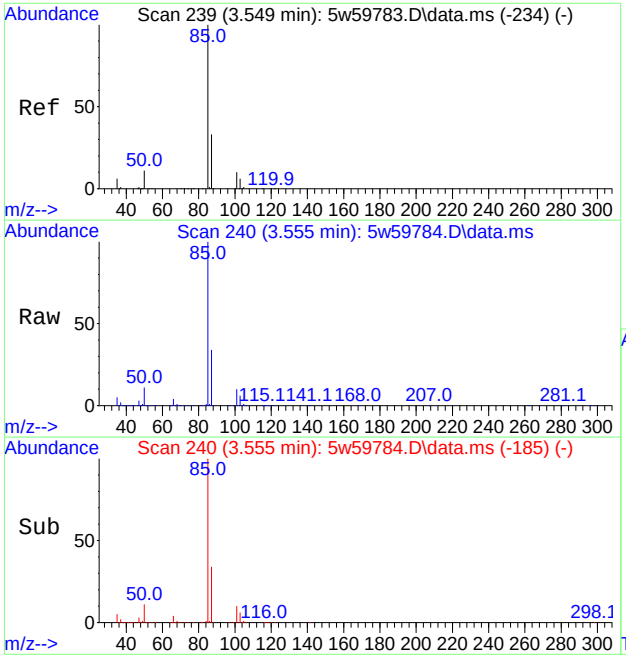


#5
CHLOROTRIFLUOROETHENE
Concen: 20.38 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:116 Resp: 1520054

Ion	Ratio	Lower	Upper
116	100		
118	32.8	22.9	42.5
85	35.4	23.7	44.1
97	24.2	17.0	31.6

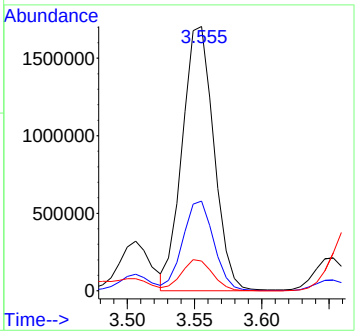


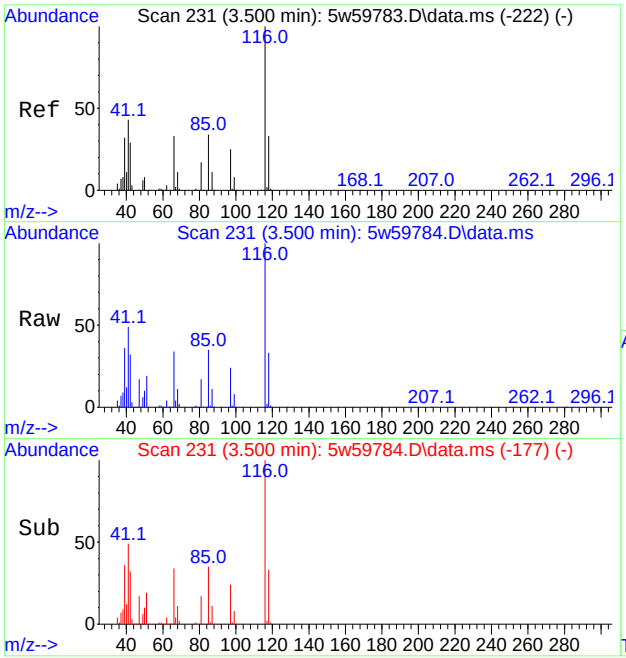


#6
DICHLORODIFLUOROMETHANE
Concen: 18.80 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2793626

Ion	Ratio	Lower	Upper
85	100		
87	33.4	2.5	62.5
50	11.7	0.0	41.7

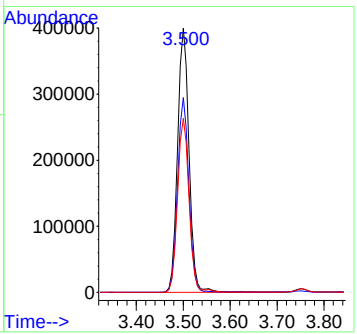


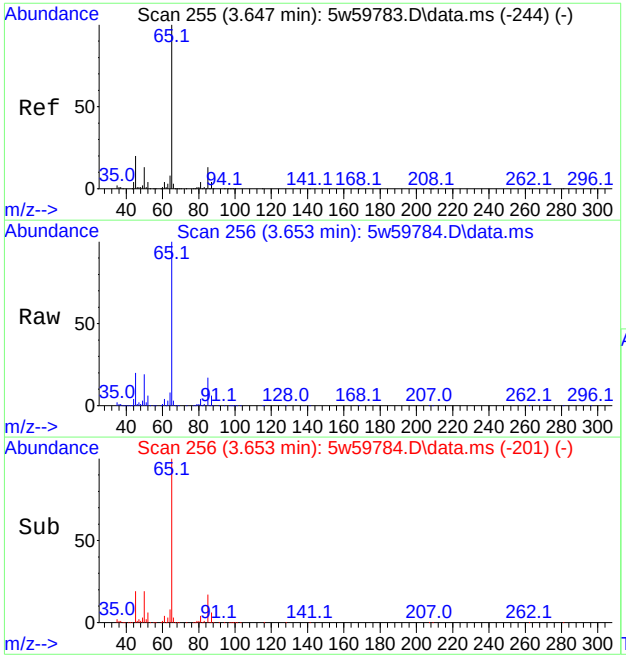


#7
PROPYLENE
Concen: 17.76 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 679227

Ion	Ratio	Lower	Upper
41	100		
39	73.5	45.1	105.1
42	66.1	36.3	96.3

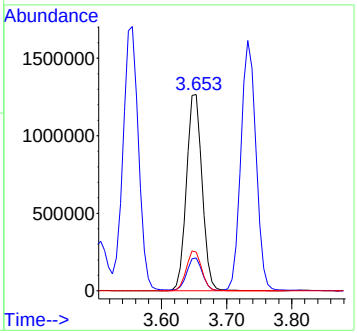


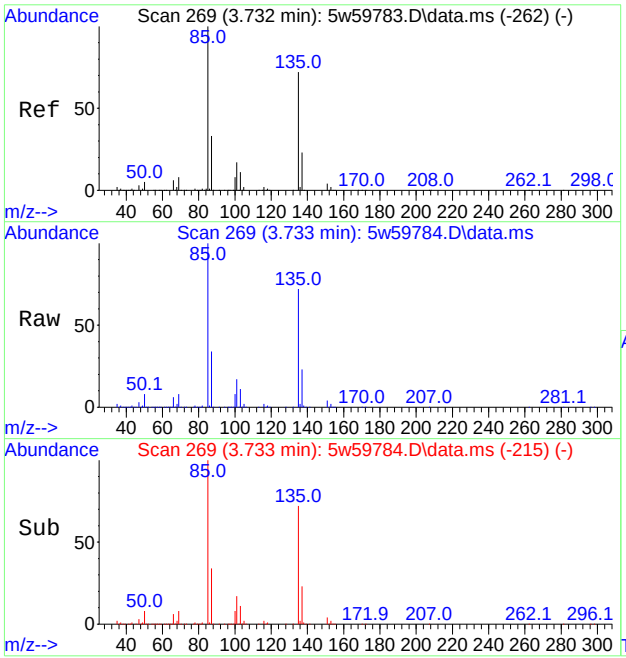


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 15.73 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 2117806

Ion	Ratio	Lower	Upper
65	100		
85	16.6	11.5	21.3
45	20.2	14.0	26.0

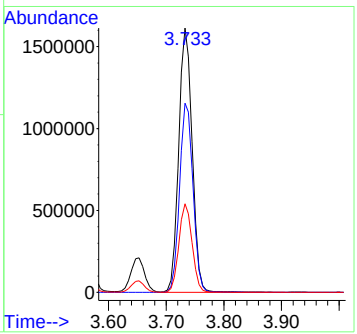


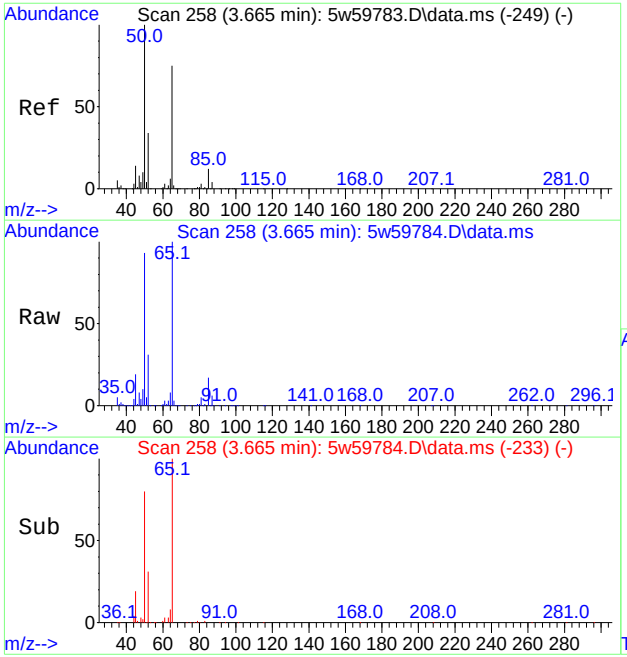


#9
FREON 114
Concen: 20.44 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2612576

Ion	Ratio	Lower	Upper
85	100		
135	71.9	40.5	100.5
87	33.3	3.0	63.0

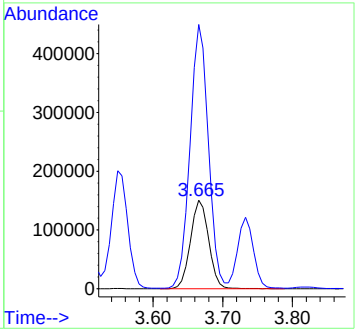


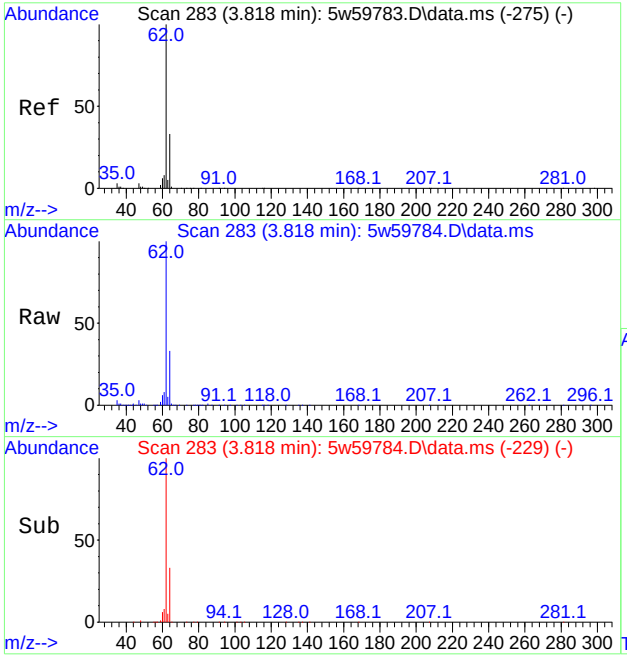


#10
CHLOROMETHANE
Concen: 17.35 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 274402

Ion	Ratio	Lower	Upper
52	100		
50	298.2	267.9	327.9

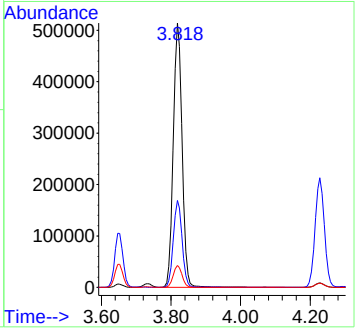


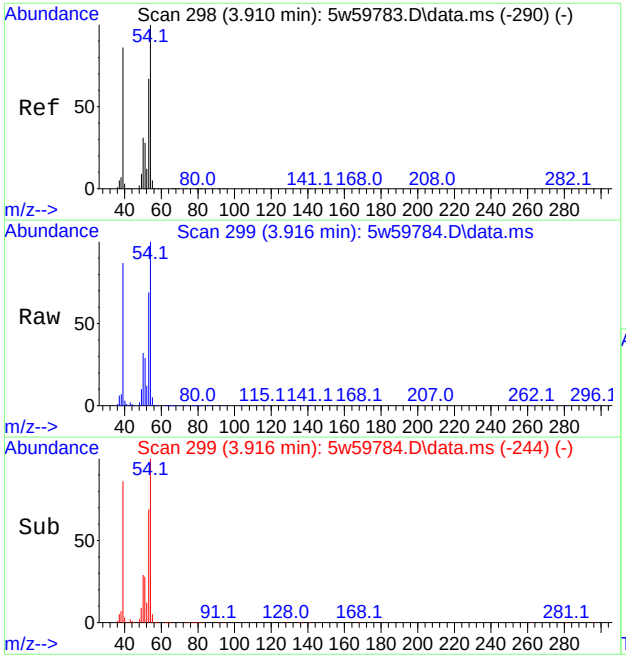


#11
VINYL CHLORIDE
Concen: 18.27 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 907868

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.3	0.0	38.2

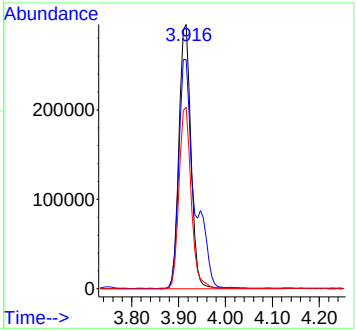


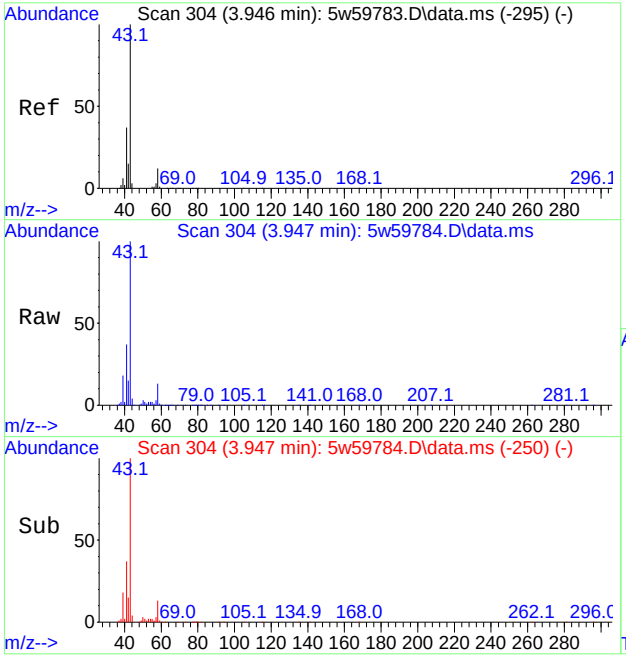


#12
1,3-BUTADIENE
Concen: 15.76 PPBV m
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 54 Resp: 526623

Ion	Ratio	Lower	Upper
54	100		
39	93.3	82.0	142.0
53	70.7	40.2	100.2

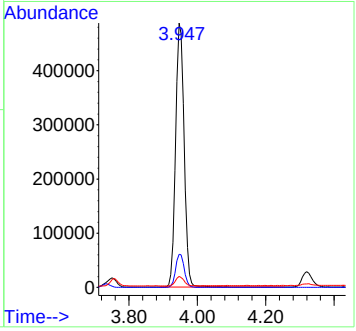


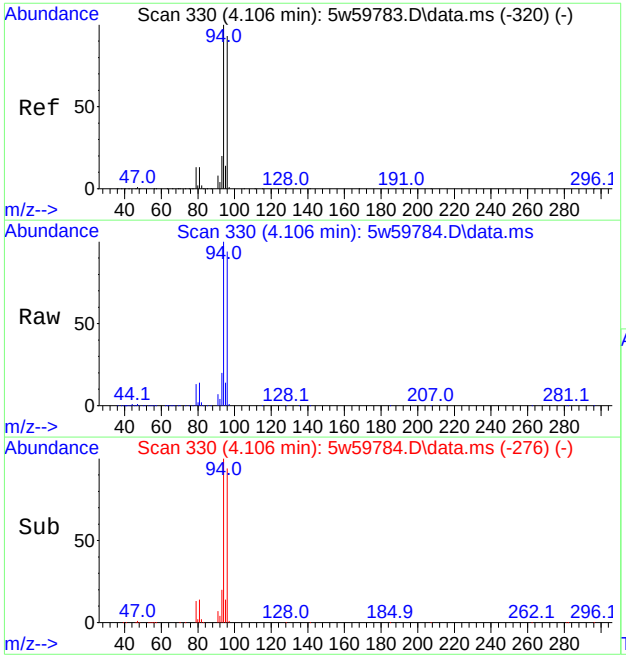


#13
n-BUTANE
Concen: 14.02 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 848889

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	3.5	0.0	34.9

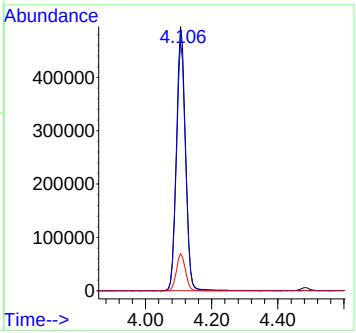


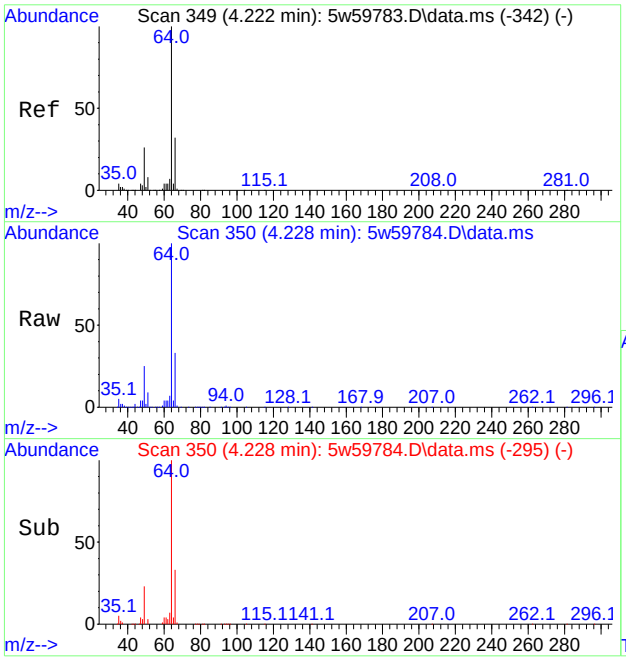


#14
BROMOMETHANE
Concen: 19.40 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 94 Resp: 947413

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

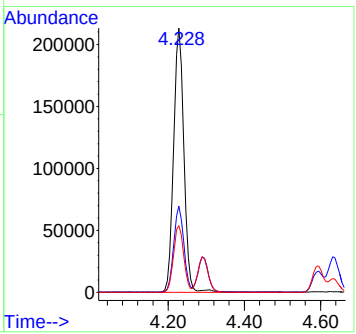


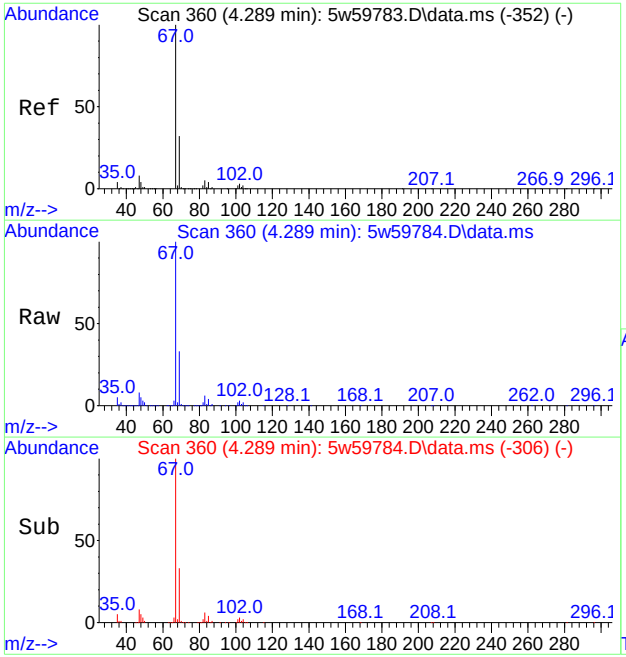


#15
CHLOROETHANE
Concen: 17.76 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 64 Resp: 401918

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

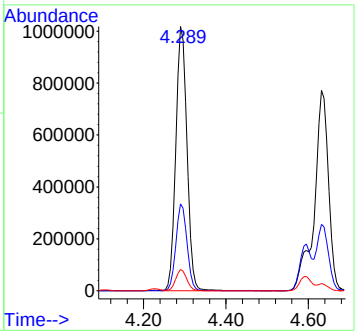


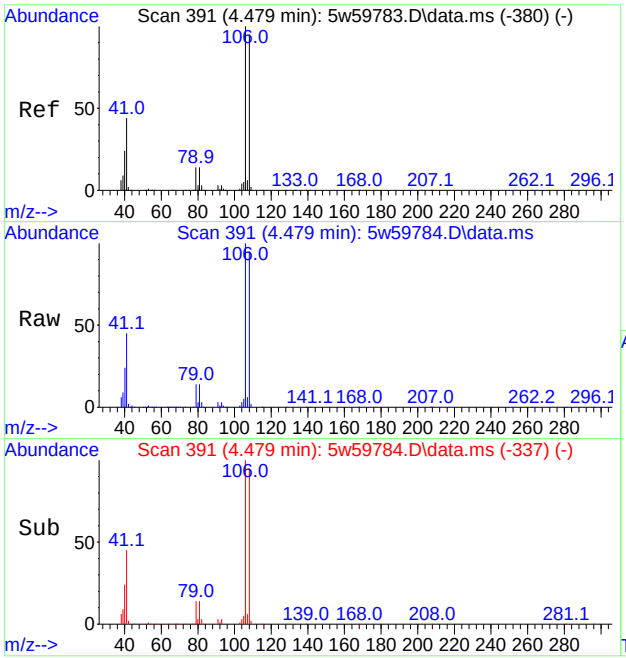


#16
DICHLOROFLUOROMETHANE
Concen: 16.60 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 1915216

Ion	Ratio	Lower	Upper
67	100		
69	32.8	22.7	42.3
47	8.1	5.6	10.4

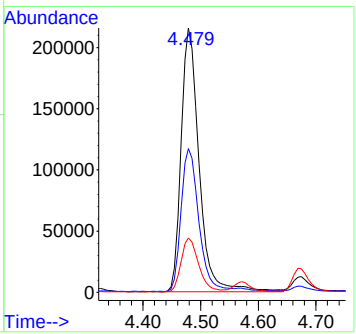


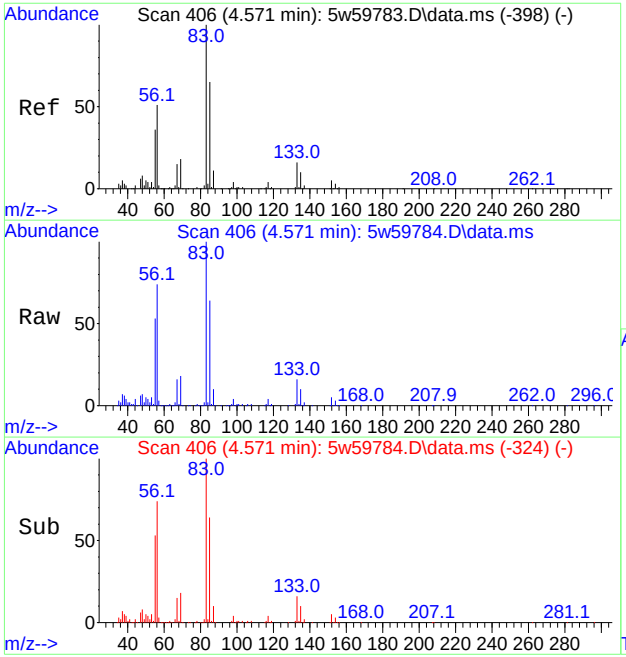


#17
ACETONITRILE
Concen: 13.59 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 467576

Ion	Ratio	Lower	Upper
41	100		
40	54.4	37.9	70.5
39	19.7	13.4	24.8

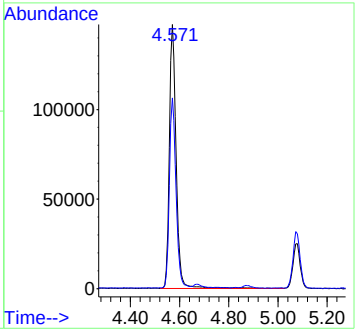


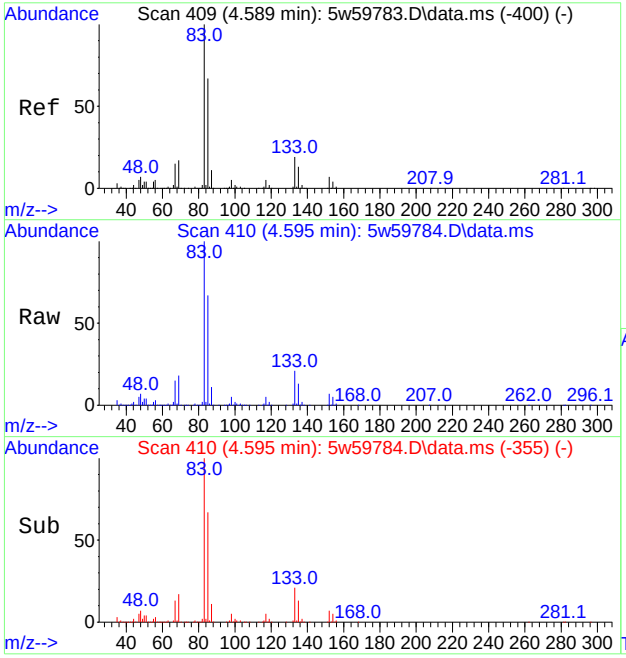


#18
ACROLEIN
Concen: 15.70 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 56 Resp: 282182

Ion	Ratio	Lower	Upper
56	100		
55	70.3	46.6	86.6

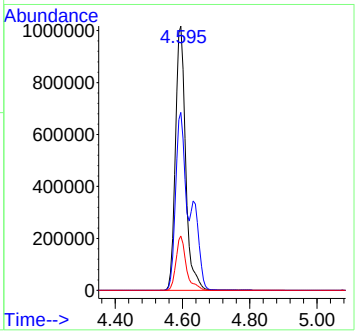


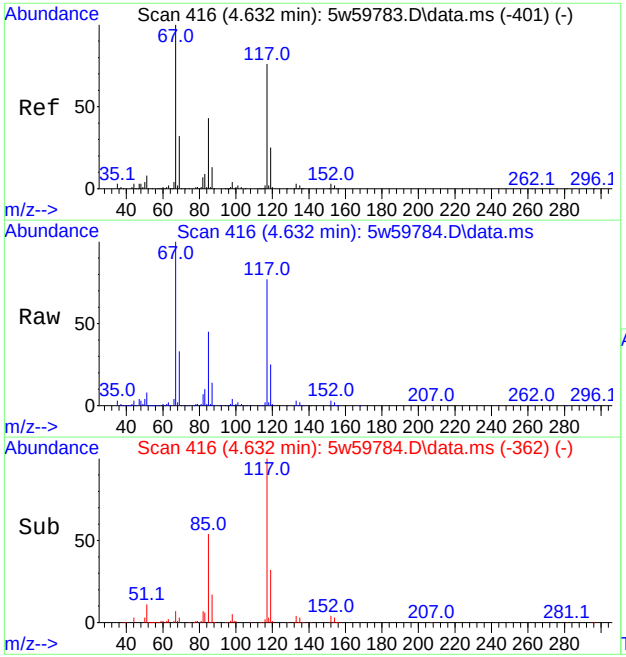


#19
FREON 123
Concen: 18.75 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2144663

Ion	Ratio	Lower	Upper
83	100		
85	66.7	34.0	94.0
133	20.9	0.0	50.7

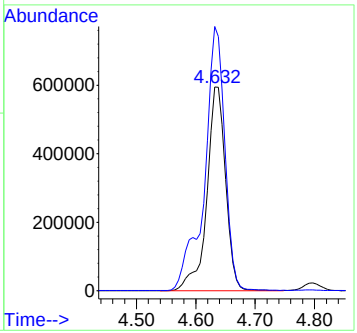


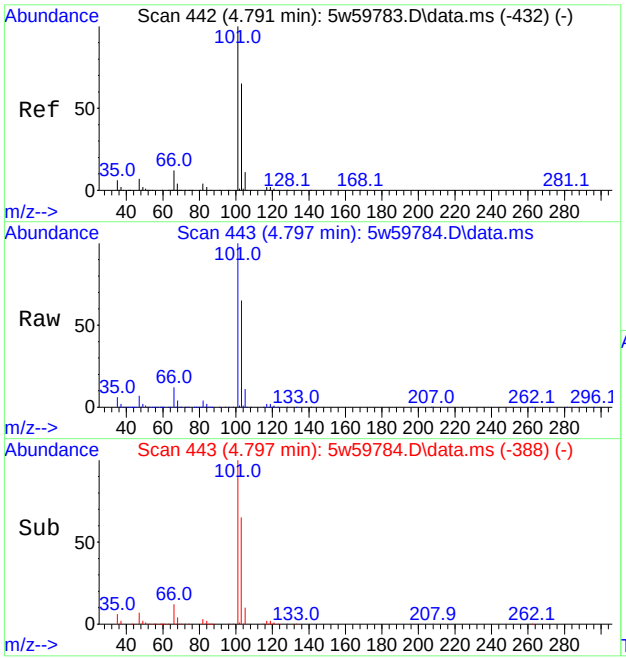


#20
FREON 123A
Concen: 18.34 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 1303591

Ion	Ratio	Lower	Upper
117	100		
67	141.5	114.6	174.6

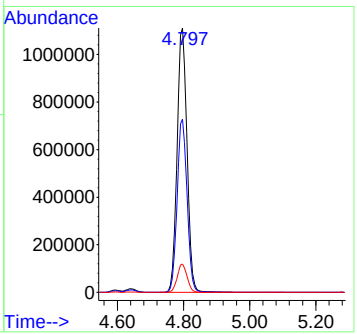


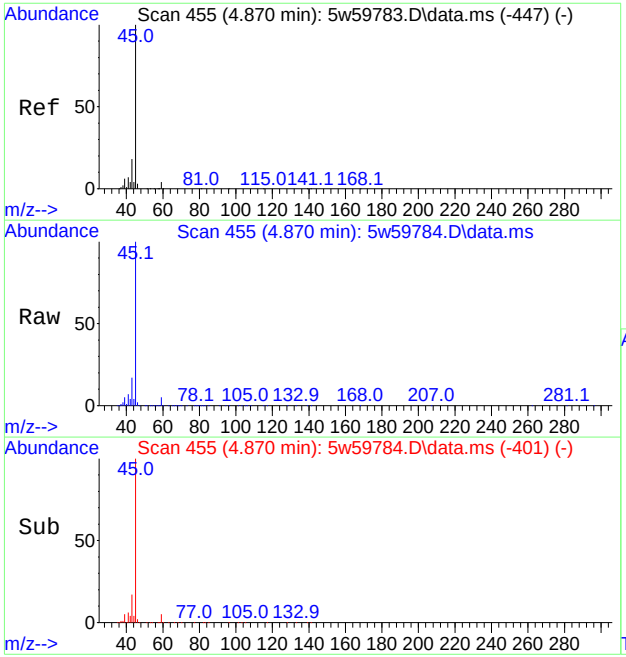


#21
TRICHLOROFLUOROMETHANE
Concen: 14.25 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:101 Resp: 2321202

Ion	Ratio	Lower	Upper
101	100		
103	65.6	35.0	95.0
105	10.8	0.0	40.7

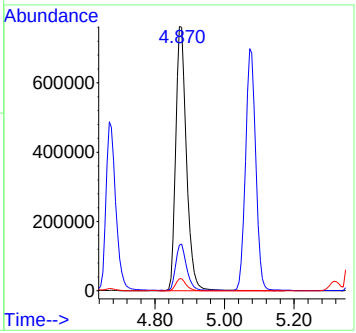


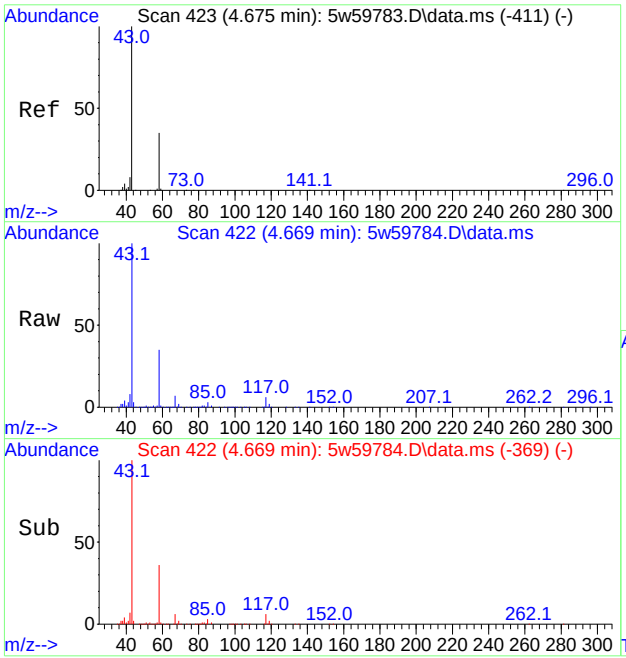


#22
ISOPROPYL ALCOHOL
Concen: 14.11 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 1635668

Ion	Ratio	Lower	Upper
45	100		
43	17.2	0.0	47.8
59	4.6	0.0	34.1

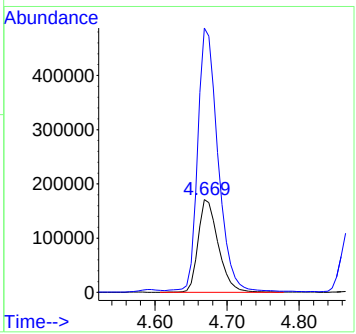


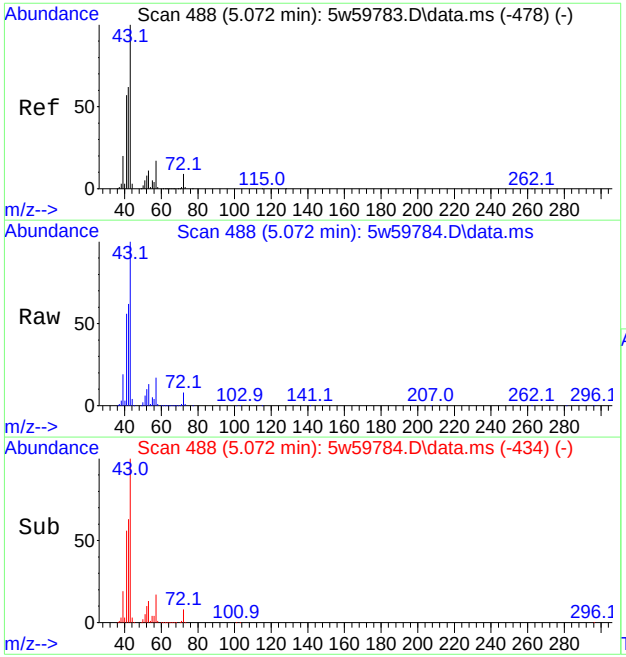


#23
ACETONE
Concen: 16.18 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 334468

Ion	Ratio	Lower	Upper
58	100		
43	284.6	252.3	312.3

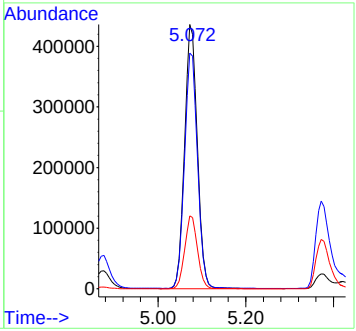


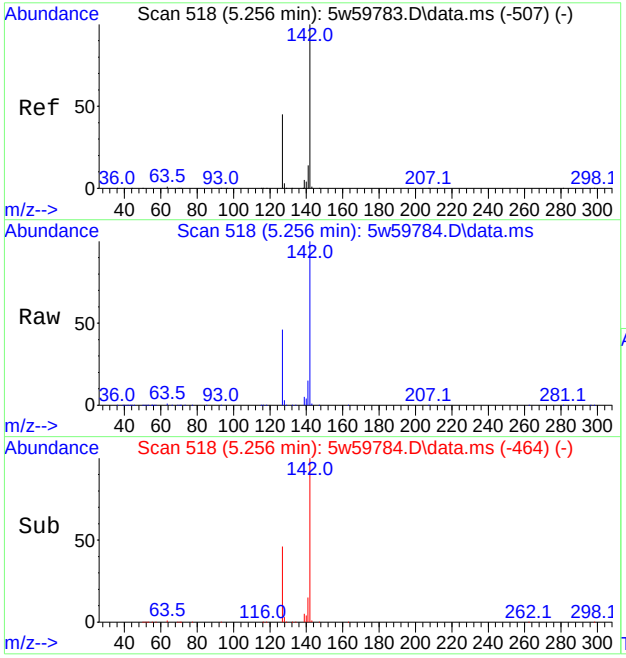


#24
PENTANE
Concen: 14.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 42 Resp: 880198

Ion	Ratio	Lower	Upper
42	100		
41	91.2	62.3	122.3
57	27.8	0.0	57.7

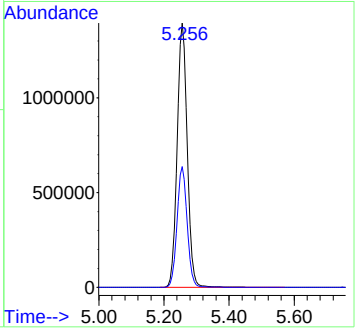


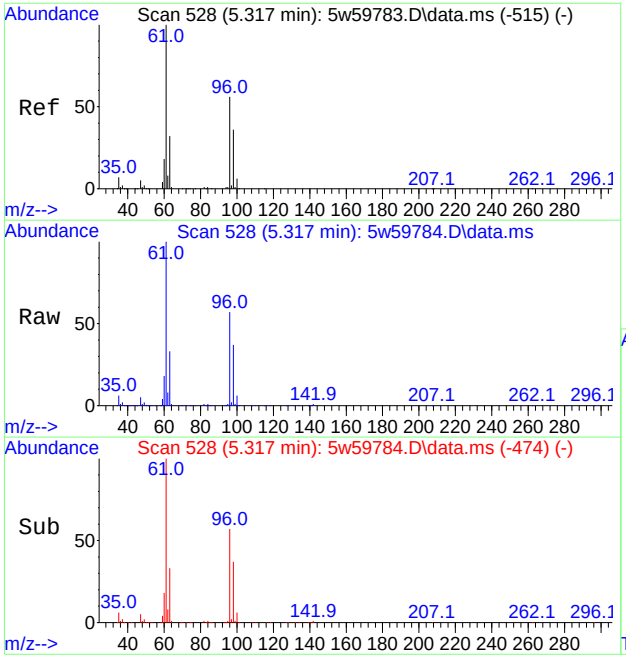


#25
IODOMETHANE
Concen: 20.19 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:142 Resp: 3031933

Ion	Ratio	Lower	Upper
142	100		
127	45.9	16.0	76.0

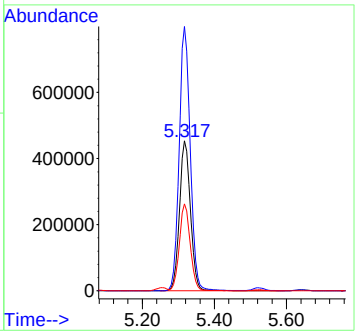


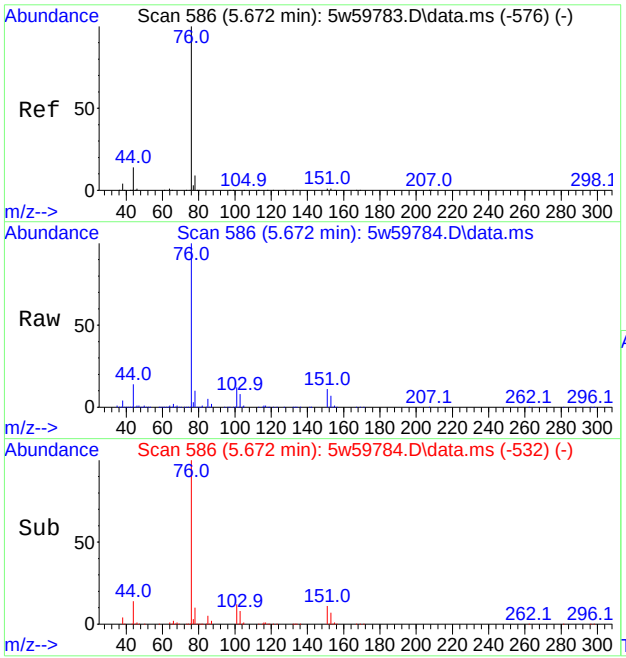


#26
1,1-DICHLOROETHYLENE
Concen: 17.96 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 959349

Ion	Ratio	Lower	Upper
96	100		
61	177.3	148.5	208.5
63	57.4	27.4	87.4

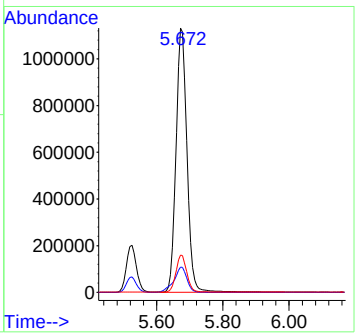


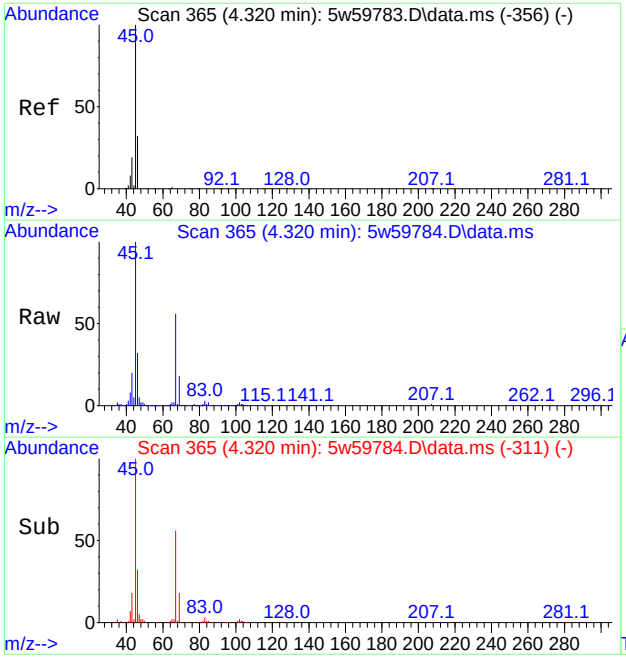


#27
CARBON DISULFIDE
Concen: 18.51 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 2608827

Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	41.5
44	14.0	0.0	44.6

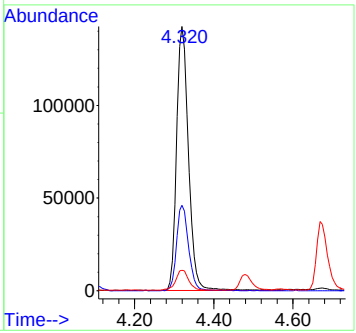


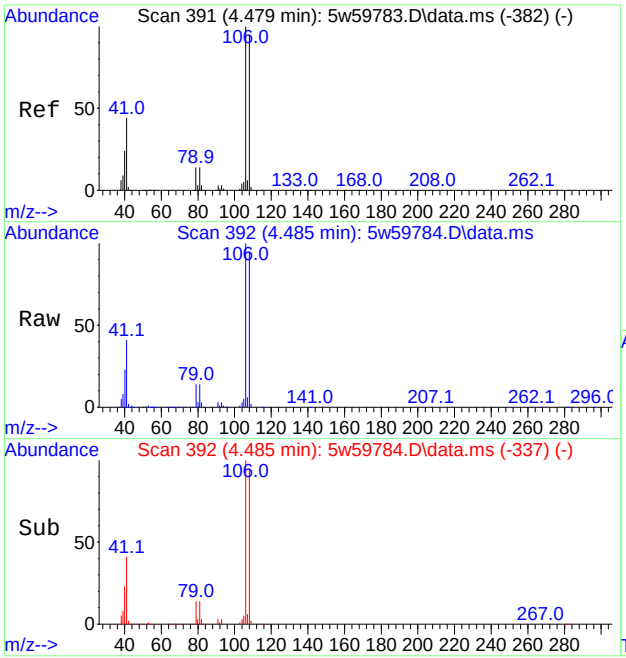


#28
ETHANOL
Concen: 13.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 298730

Ion	Ratio	Lower	Upper
45	100		
46	32.8	2.0	62.0
42	8.4	0.0	38.5

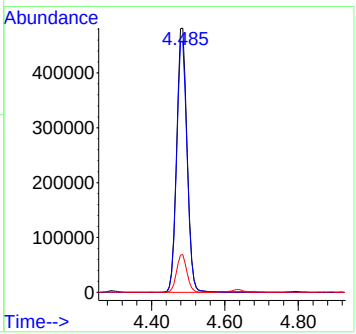


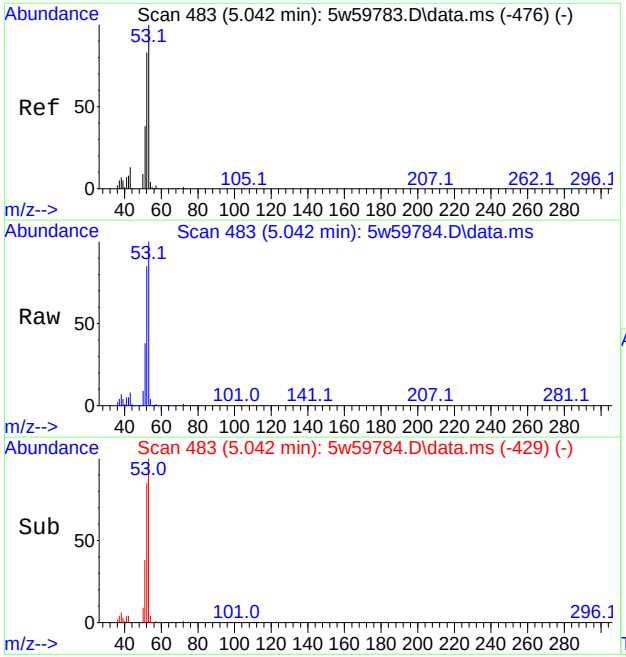


#29
BROMOETHENE
Concen: 20.43 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 957242

Ion	Ratio	Lower	Upper
106	100		
108	95.3	65.6	125.6
81	14.2	0.0	43.9

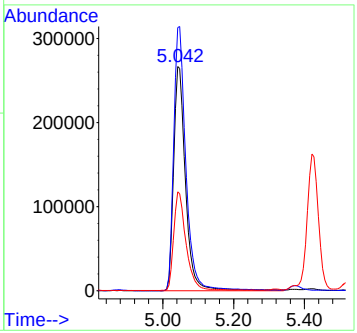


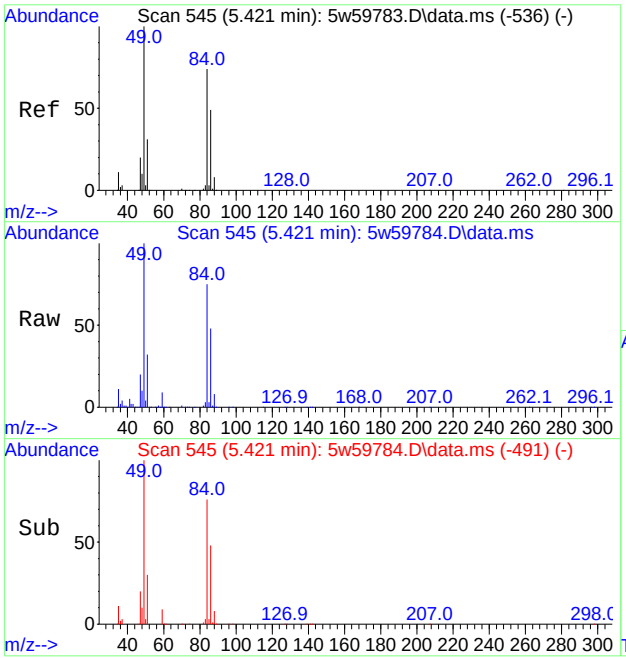


#30
ACRYLONITRILE
Concen: 17.51 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 624246

Ion	Ratio	Lower	Upper
52	100		
53	121.1	85.8	159.4
51	45.8	32.3	60.1

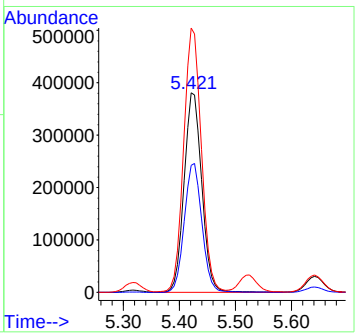


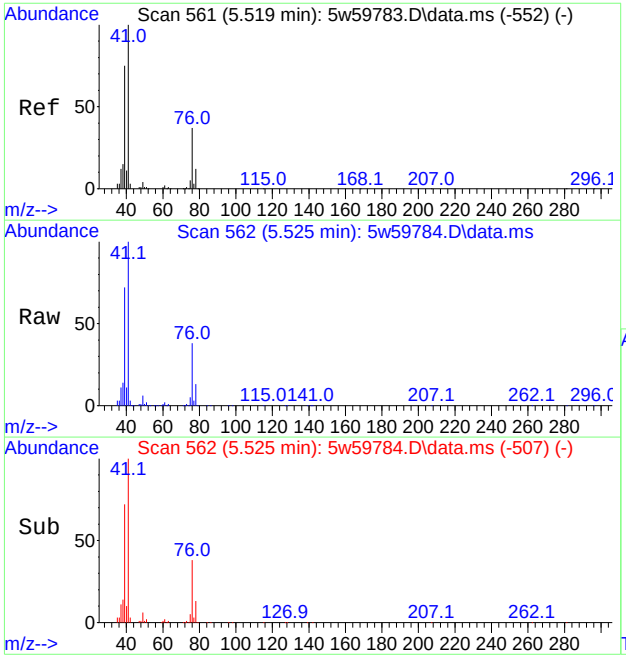


#31
METHYLENE CHLORIDE
Concen: 17.45 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 836157

Ion	Ratio	Lower	Upper
84	100		
86	64.4	35.2	95.2
49	132.4	105.3	165.3

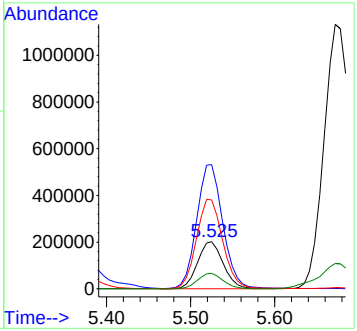


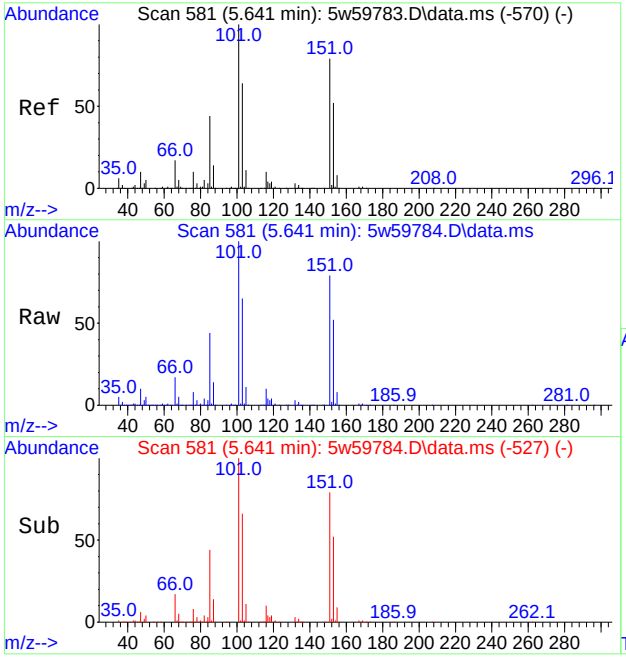


#32
3-CHLOROPROPENE
Concen: 19.53 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 430205

Ion	Ratio	Lower	Upper
76	100		
41	267.1	240.8	300.8
39	193.9	173.6	233.6
78	32.7	2.8	62.8

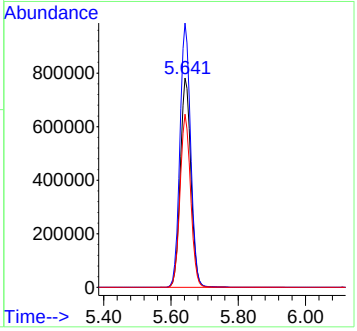


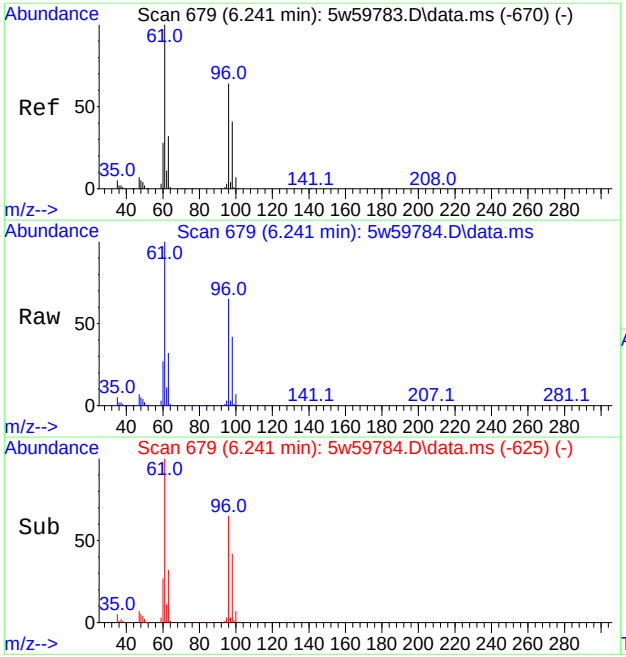


#33
FREON 113
Concen: 18.38 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:151 Resp: 1722837

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	82.1	52.5	112.5

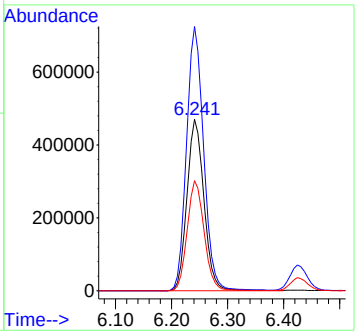


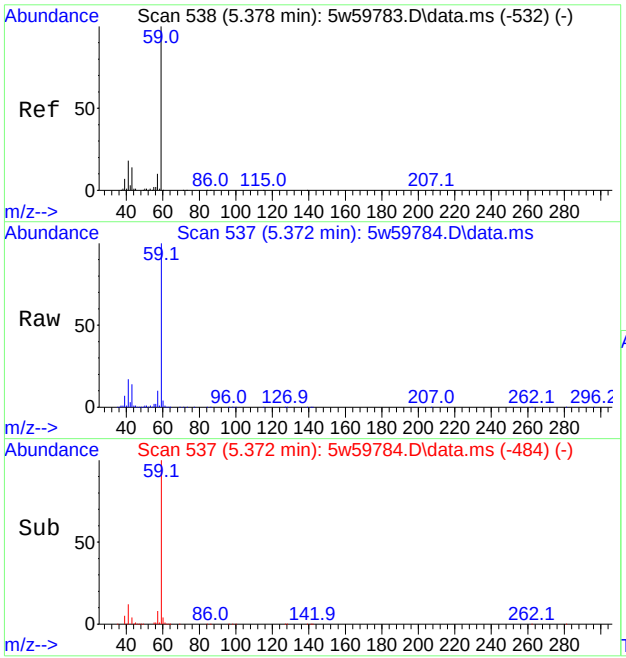


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 18.16 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 990650

Ion	Ratio	Lower	Upper
96	100		
61	155.3	126.4	186.4
98	64.1	34.1	94.1

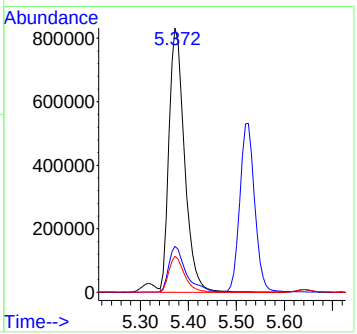


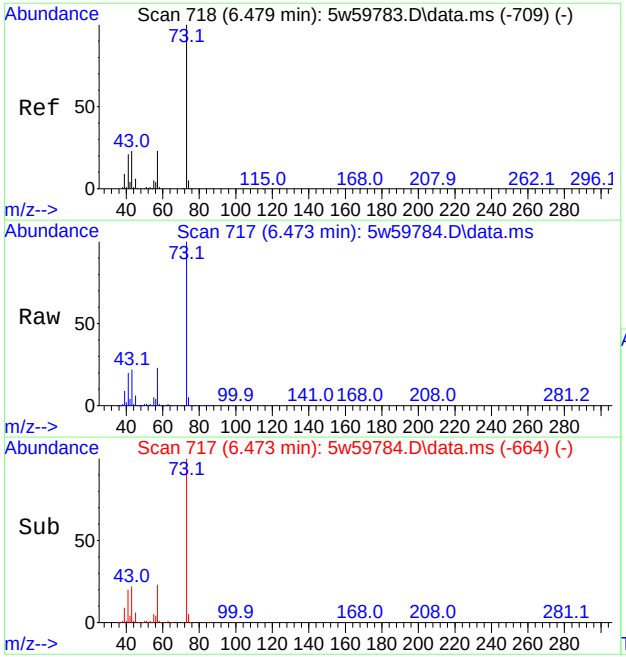


#35
TERTIARY BUTYL ALCOHOL
Concen: 16.33 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 1868378

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.7	0.0	44.1

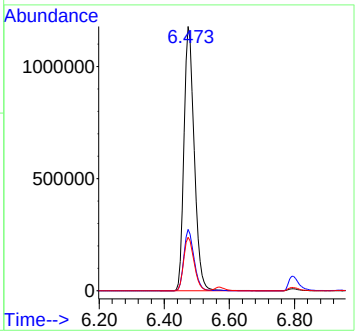


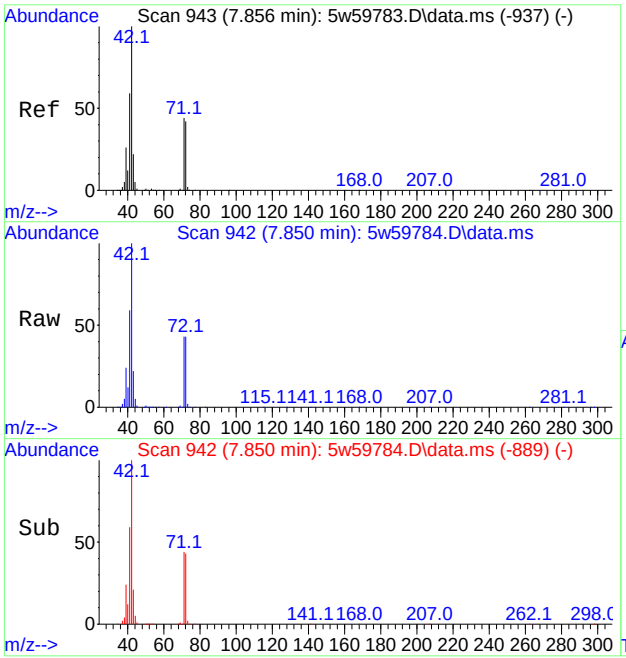


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.14 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 73 Resp: 2584253

Ion	Ratio	Lower	Upper
73	100		
57	22.8	0.0	53.1
41	20.4	0.0	50.6

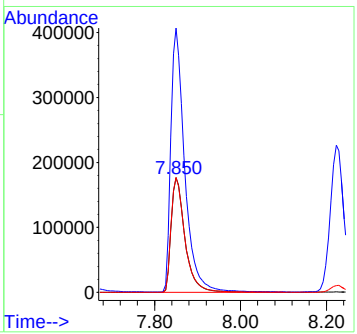


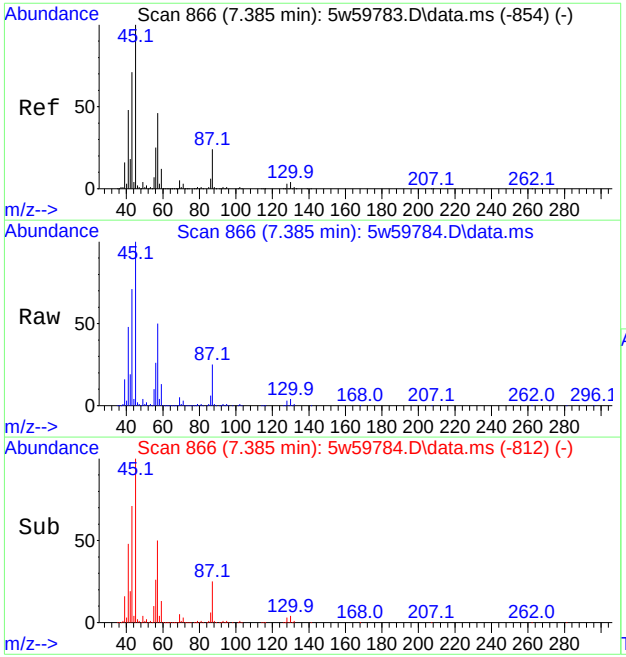


#37
TETRAHYDROFURAN
Concen: 22.19 PPBV
RT: 7.850 min Scan# 942
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 399188

Ion	Ratio	Lower	Upper
72	100		
42	228.7	202.4	262.4
71	100.4	71.1	131.1

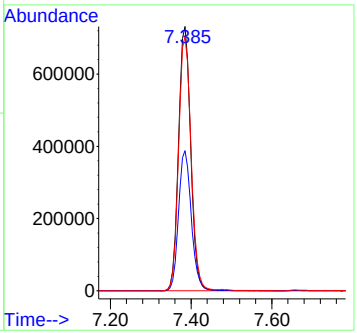


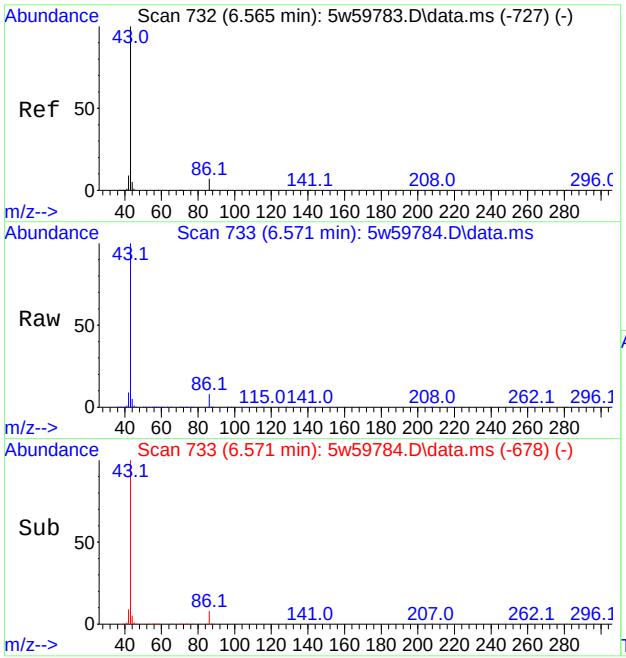


#38
HEXANE
Concen: 20.27 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1526495

Ion	Ratio	Lower	Upper
57	100		
56	55.6	25.9	85.9
41	99.2	74.7	134.7

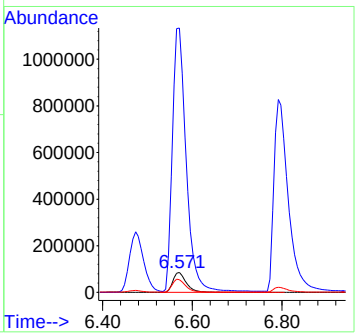


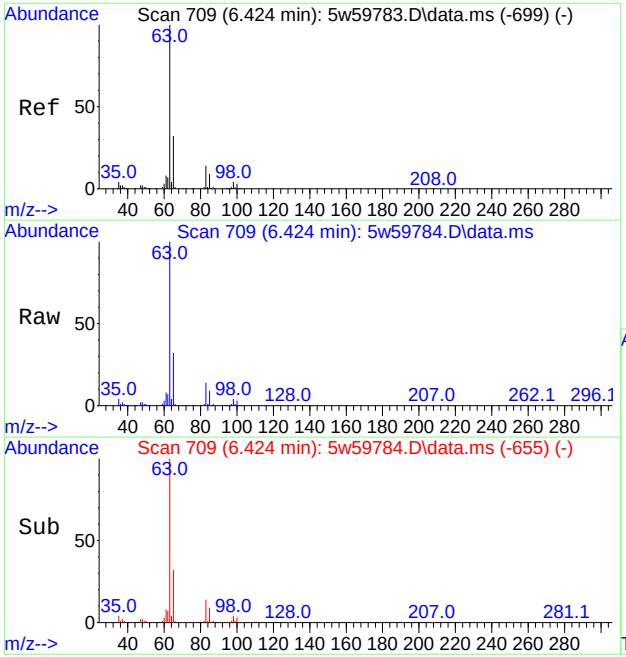


#39
VINYL ACETATE
Concen: 19.94 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 86 Resp: 179566

Ion	Ratio	Lower	Upper
86	100		
43	1346.7	1379.7	1439.7#
44	64.7	36.9	96.9

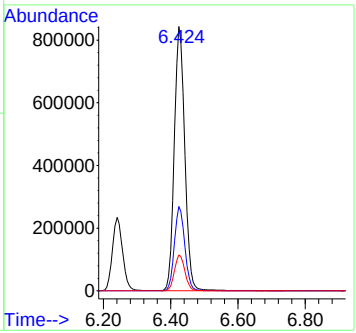


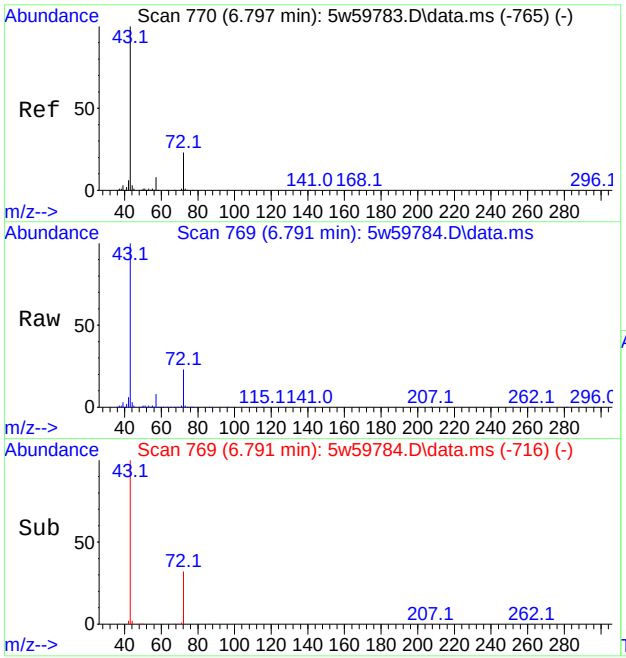


#40
1,1-DICHLOROETHANE
Concen: 18.32 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1823762

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.7	61.7
83	13.6	0.0	43.5

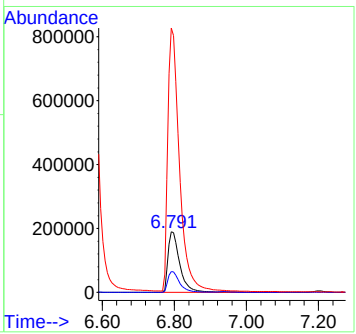


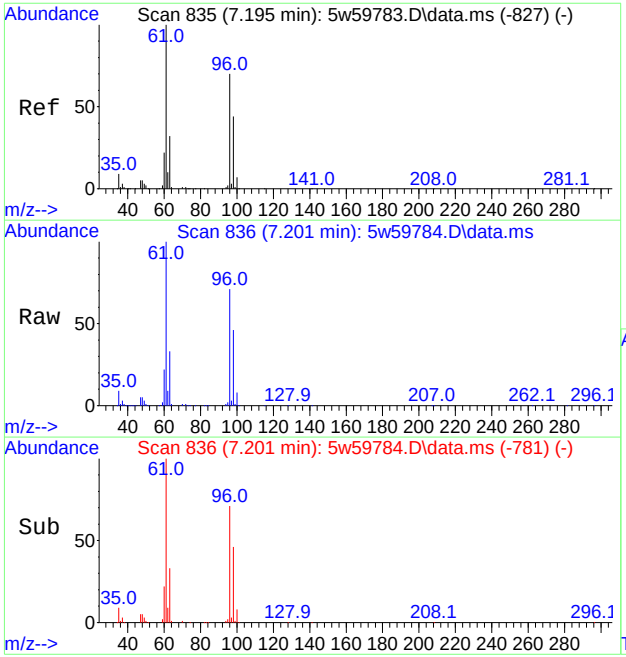


#41
METHYL ETHYL KETONE
Concen: 22.94 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 430294

Ion	Ratio	Lower	Upper
72	100		
57	34.5	4.8	64.8
43	437.4	415.9	475.9

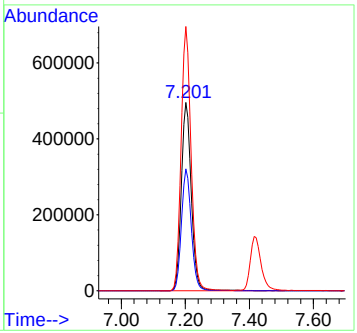


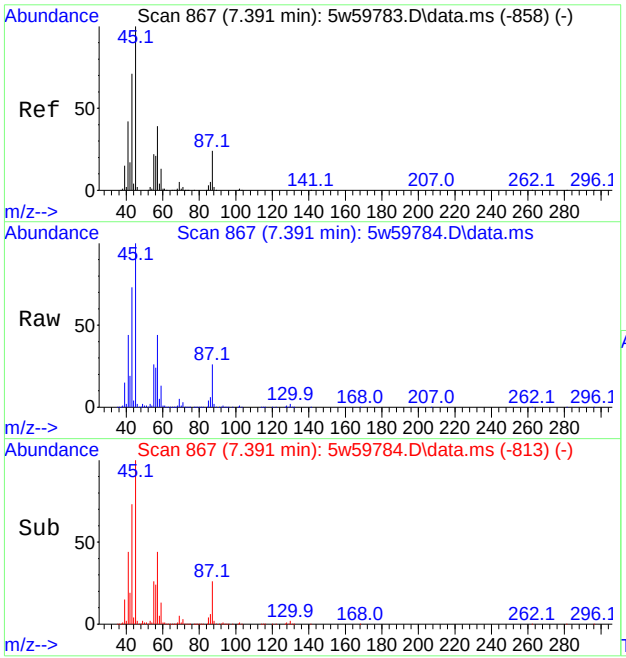


#42
cis-1,2-DICHLOROETHYLENE
Concen: 19.00 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 1068157

Ion	Ratio	Lower	Upper
96	100		
98	64.3	34.0	94.0
61	140.2	111.5	171.5

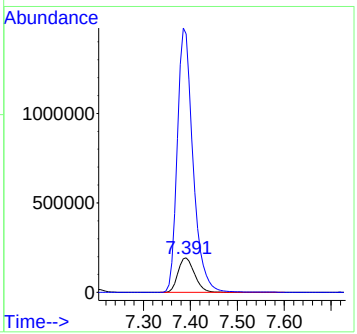


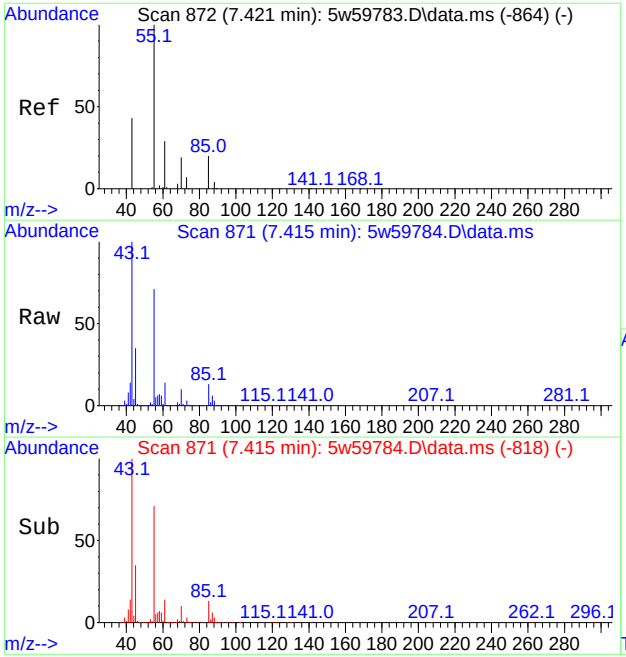


#43
DIISOPROPYL ETHER
Concen: 23.11 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 472029

Ion	Ratio	Lower	Upper
59	100		
45	729.2	720.9	780.9

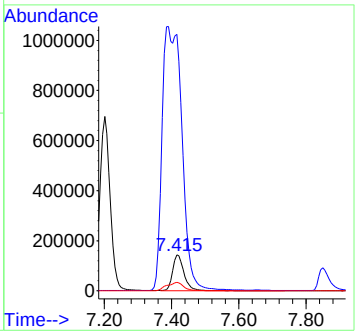


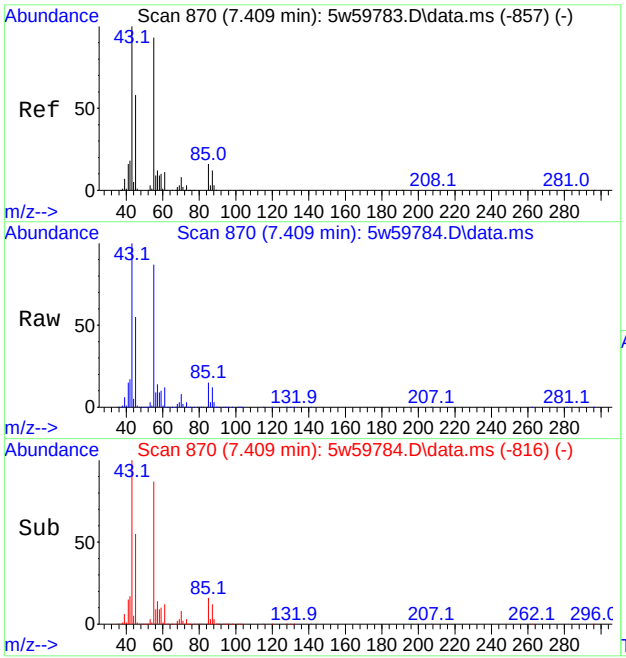


#44
ETHYL ACETATE
Concen: 22.04 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 61 Resp: 340212

Ion	Ratio	Lower	Upper
61	100		
43	580.2	560.5	620.5
88	35.0	4.5	64.5

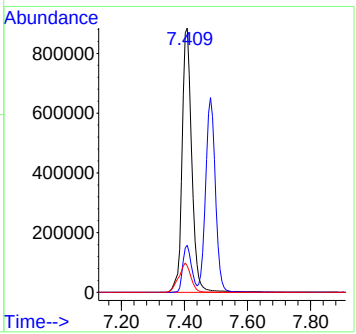


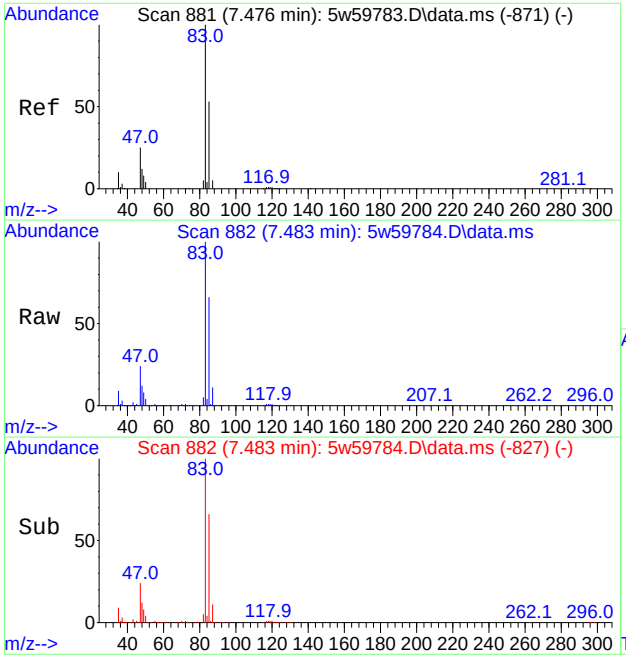


#45
METHYL ACRYLATE
Concen: 21.07 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 1885856

Ion	Ratio	Lower	Upper
55	100		
85	16.1	10.9	20.3
58	13.9	9.4	17.6

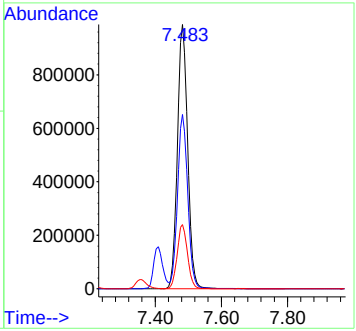


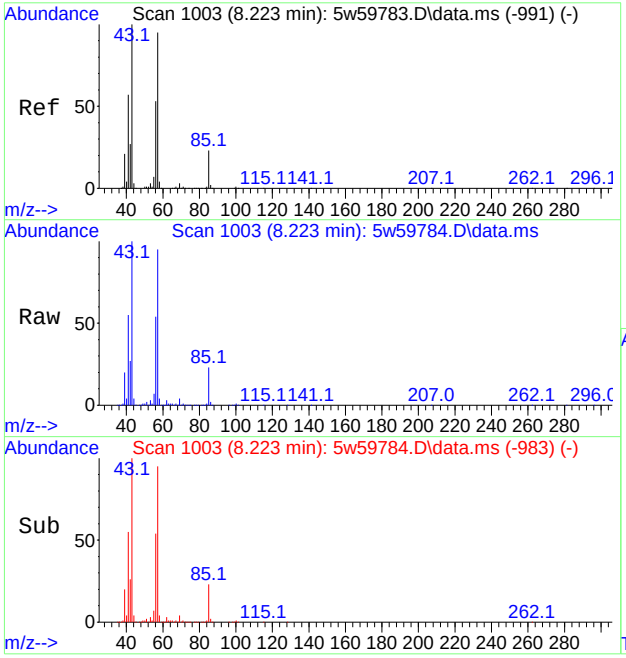


#46
CHLOROFORM
Concen: 18.57 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2134176

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	24.5	0.0	55.2

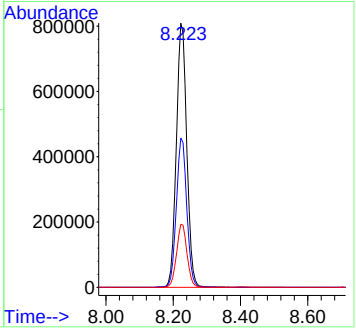


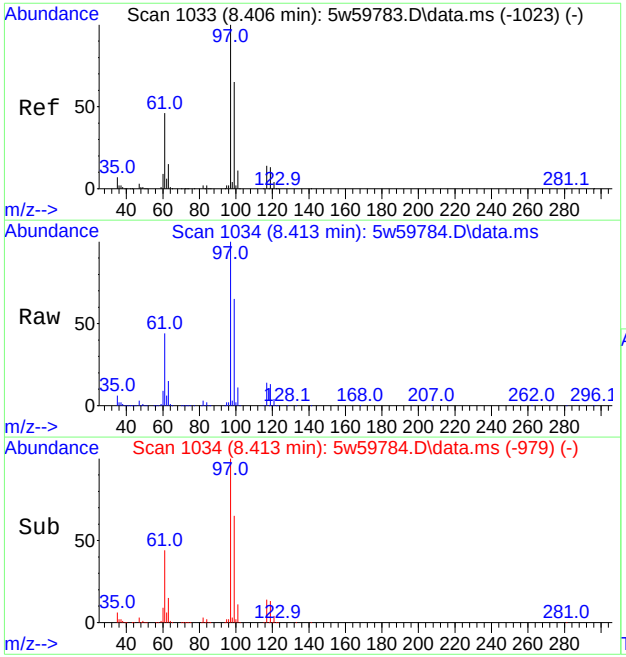


#47
2,4-DIMETHYLPENTANE
Concen: 19.75 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1747860

Ion	Ratio	Lower	Upper
57	100		
56	56.8	26.5	86.5
85	24.0	0.0	53.8

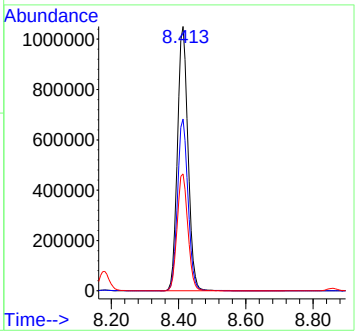


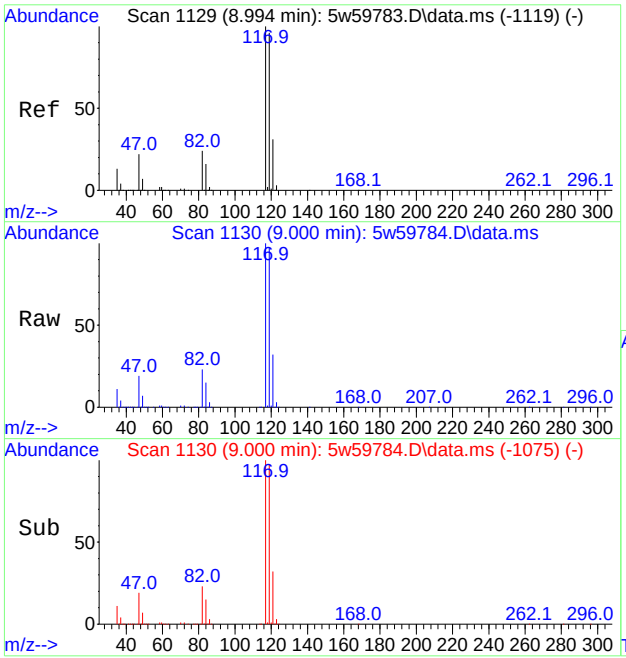


#48
1,1,1-TRICHLOROETHANE
Concen: 18.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 97 Resp: 2289683

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.8	94.8
61	45.3	15.8	75.8

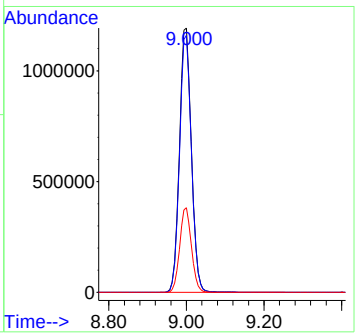


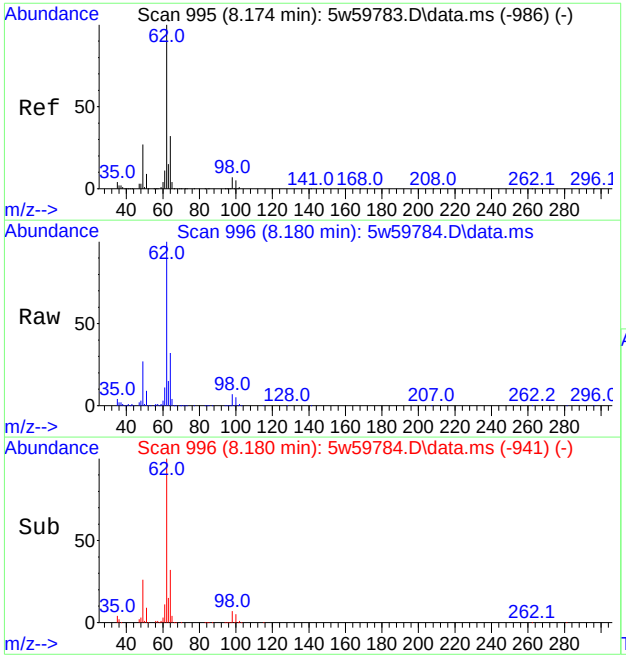


#49
CARBON TETRACHLORIDE
Concen: 18.43 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2555242

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.5	1.3	61.3

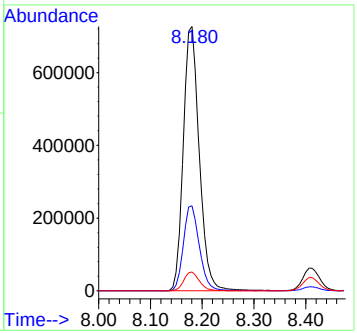


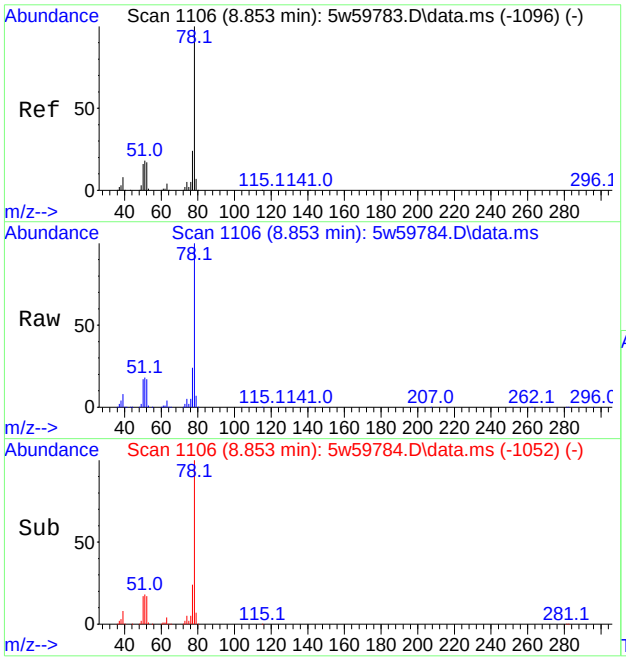


#50
1,2-DICHLOROETHANE
Concen: 19.15 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 1561332

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	7.0	0.0	36.9

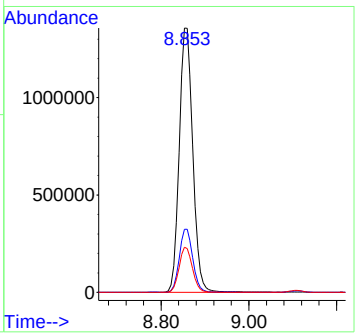


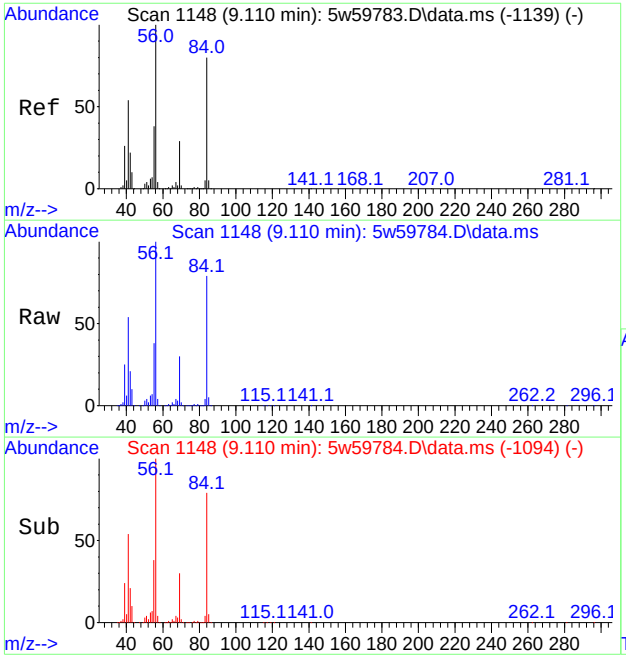


#52
BENZENE
Concen: 22.68 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 78 Resp: 2903342

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

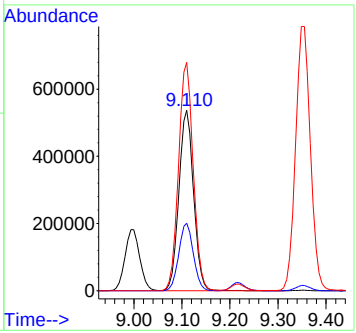


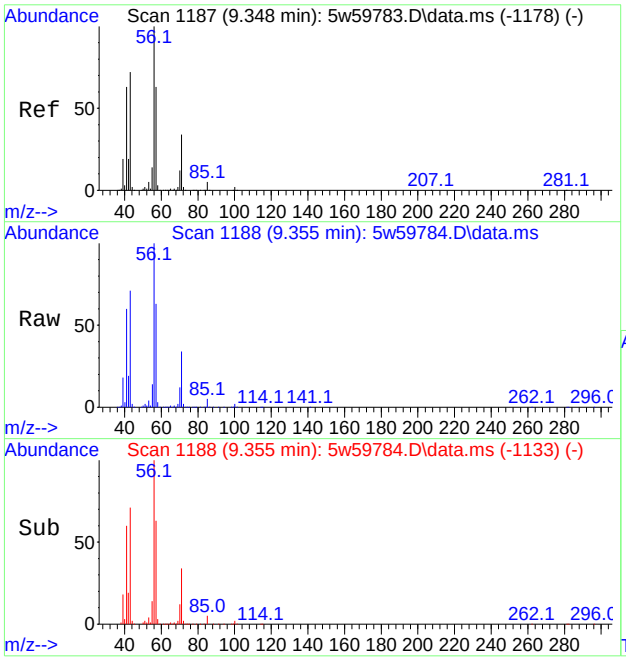


#53
CYCLOHEXANE
Concen: 22.41 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 1139585

Ion	Ratio	Lower	Upper
84	100		
69	37.2	6.9	66.9
56	126.2	98.2	158.2

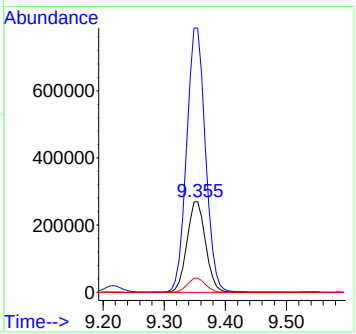


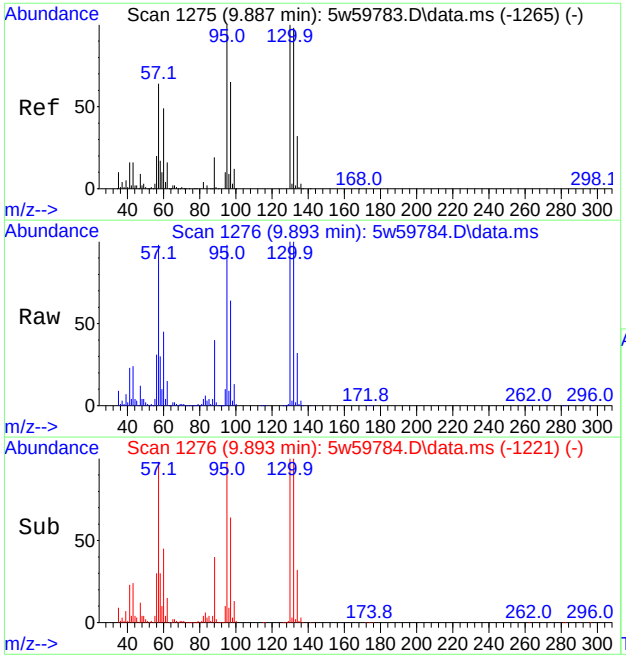


#54
2,3-DIMETHYLPENTANE
Concen: 22.39 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 71 Resp: 573637

Ion	Ratio	Lower	Upper
71	100		
56	294.3	264.6	324.6
85	15.5	0.0	45.3

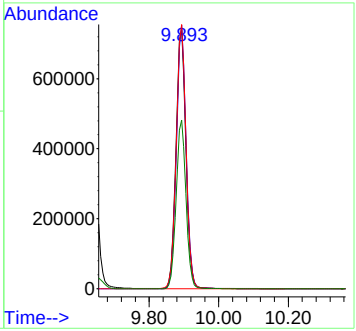


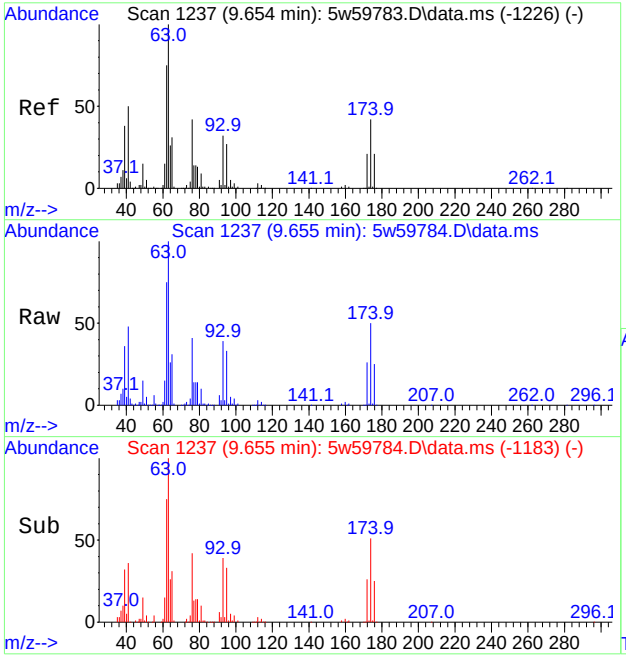


#55
TRICHLOROETHYLENE
Concen: 21.65 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 95 Resp: 1474907

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.3	70.6	130.6
97	64.8	34.6	94.6

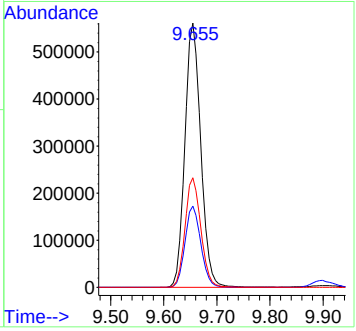


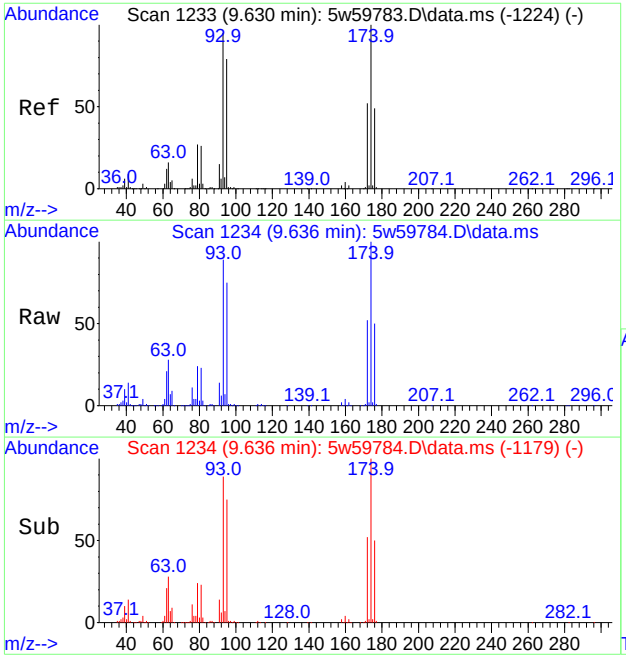


#56
1,2-DICHLOROPROPANE
Concen: 21.61 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1173566

Ion	Ratio	Lower	Upper
63	100		
65	30.7	0.5	60.5
76	41.3	11.5	71.5

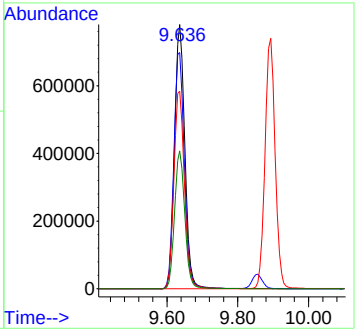


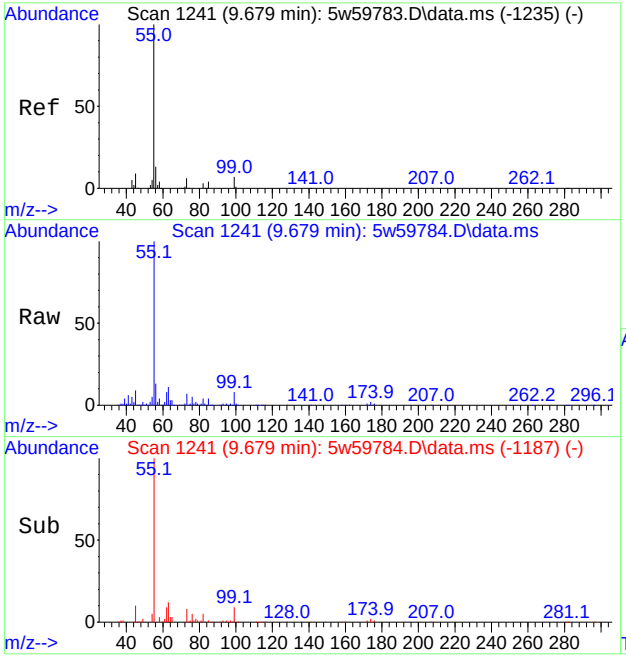


#57
DIBROMOMETHANE
Concen: 21.13 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:174 Resp: 1578012

Ion	Ratio	Lower	Upper
174	100		
93	91.6	65.0	120.6
95	76.8	54.5	101.1
172	52.1	36.3	67.5

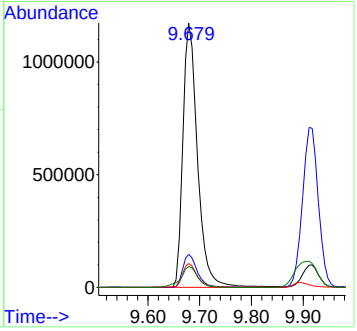


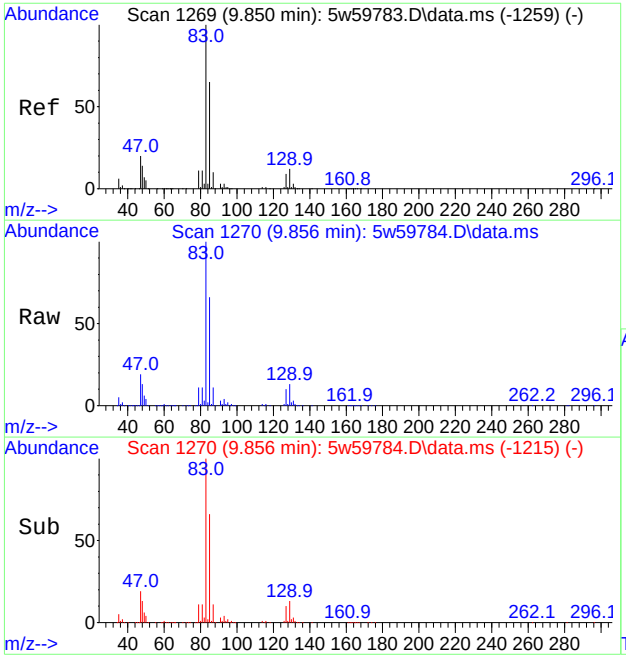


#58
ETHYL ACRYLATE
Concen: 23.37 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 2306359

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.0	6.6	12.2
99	9.3	6.4	12.0

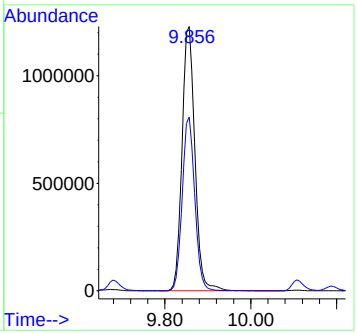


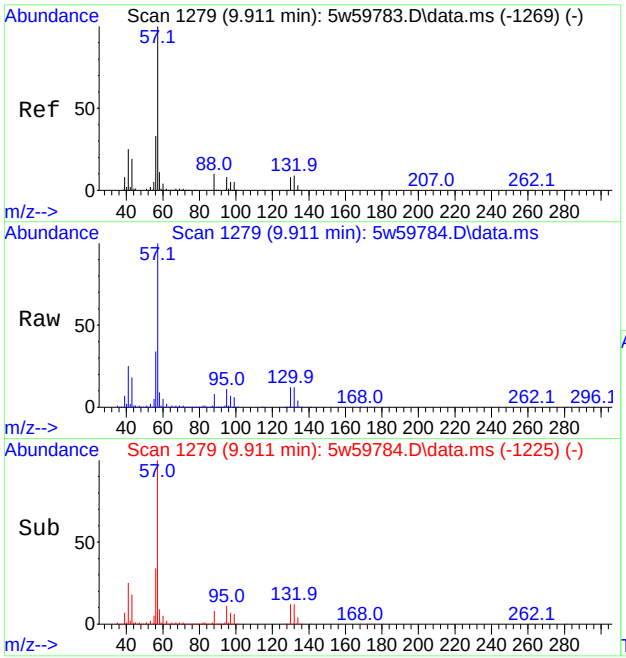


#59
BROMODICHLOROMETHANE
Concen: 21.01 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2548286

Ion	Ratio	Lower	Upper
83	100		
85	64.1	33.4	93.4

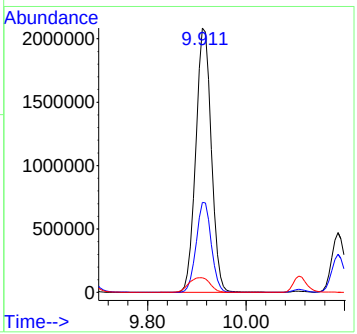


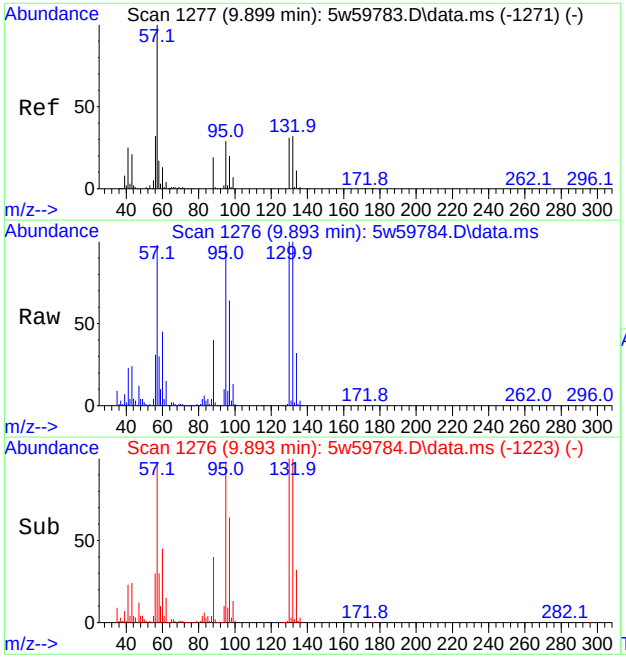


#60
2,2,4-TRIMETHYLPENTANE
Concen: 20.94 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 4564310

Ion	Ratio	Lower	Upper
57	100		
56	33.1	2.5	62.5
99	7.7	0.0	37.3

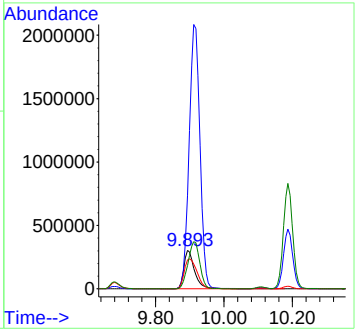


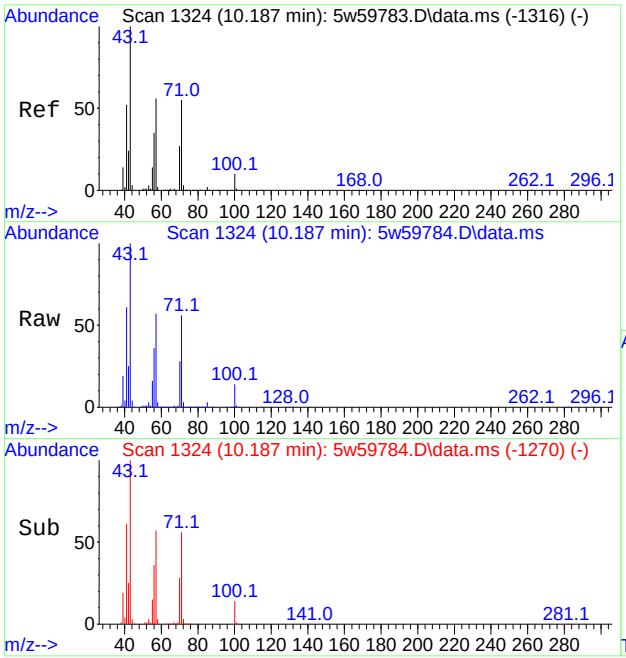


#61
1,4-DIOXANE
Concen: 24.77 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 88 Resp: 653321

Ion	Ratio	Lower	Upper
88	100		
57	243.5	494.2	554.2#
58	75.6	58.9	118.9
43	60.5	78.3	138.3#

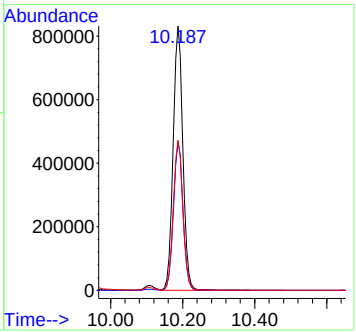


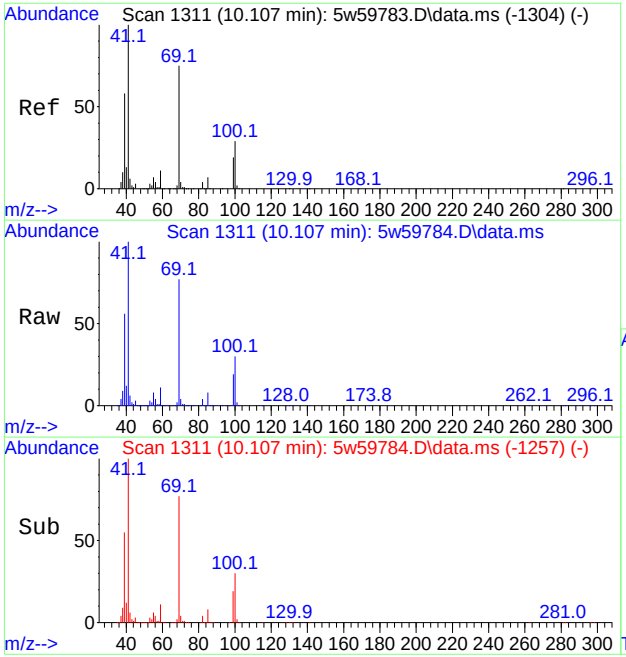


#62
HEPTANE
Concen: 19.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 1555190

Ion	Ratio	Lower	Upper
43	100		
71	55.3	24.5	84.5
57	56.8	26.2	86.2

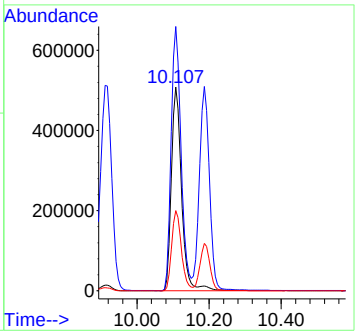


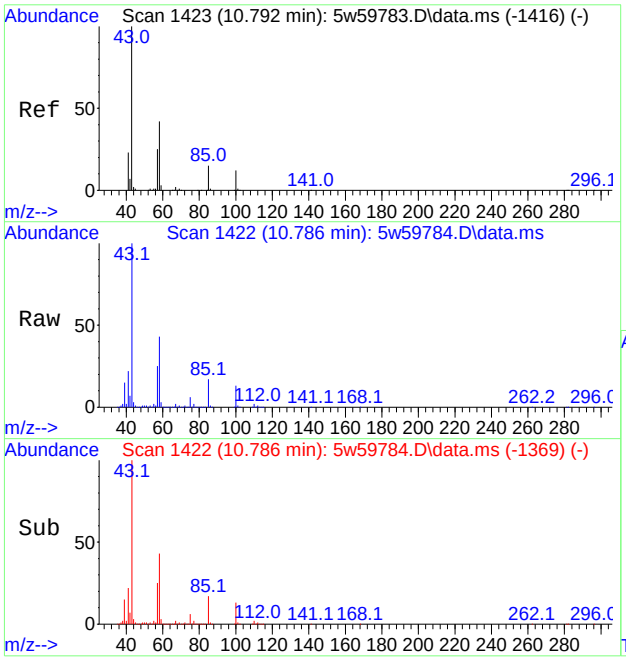


#63
METHYL METHACRYLATE
Concen: 25.22 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1000168

Ion	Ratio	Lower	Upper
69	100		
41	124.8	95.3	155.3
100	37.7	6.3	66.3

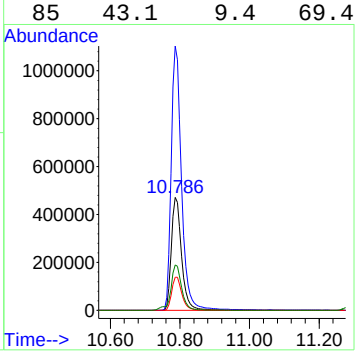


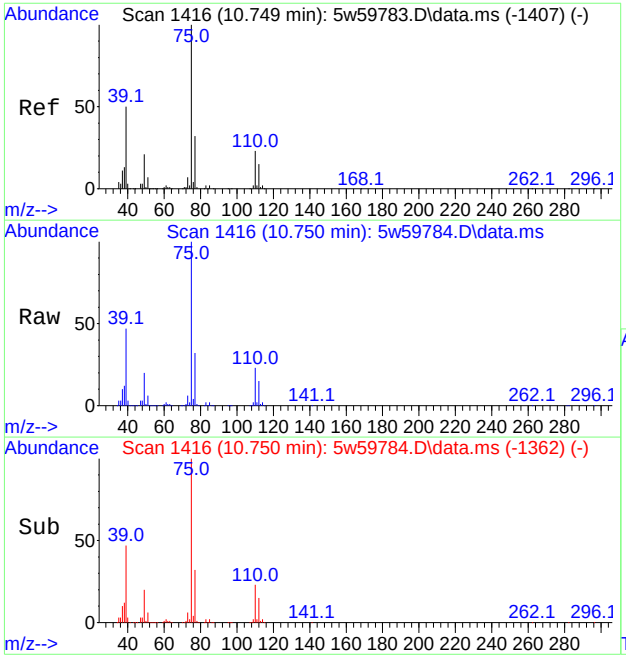


#64
METHYL ISOBUTYL KETONE
Concen: 23.79 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 969468

Ion	Ratio	Lower	Upper
58	100		
43	234.9	209.2	269.2
100	29.7	0.0	58.8
85	43.1	9.4	69.4

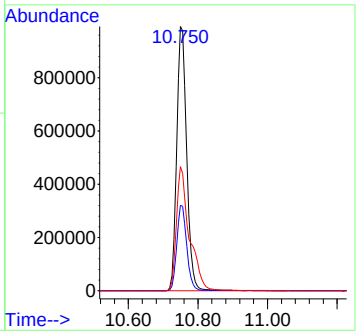


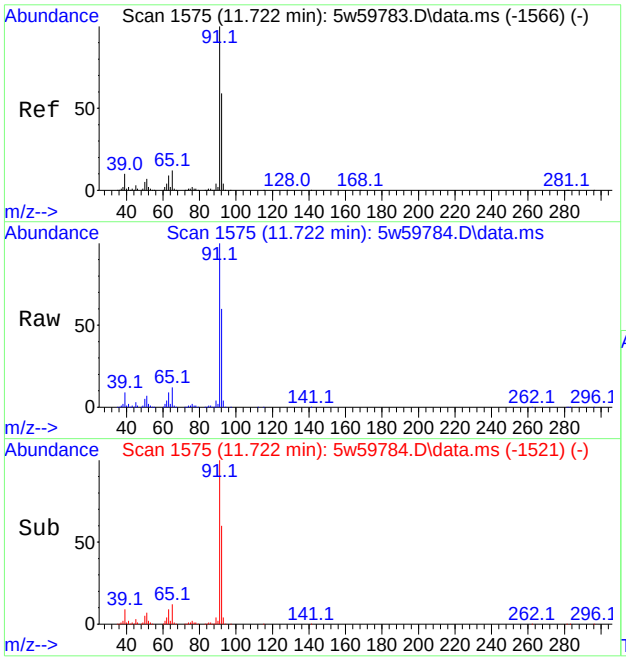


#65
cis-1,3-DICHLOROPROPENE
Concen: 23.56 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1985103

Ion	Ratio	Lower	Upper
75	100		
77	32.3	2.2	62.2
39	61.2	34.3	94.3

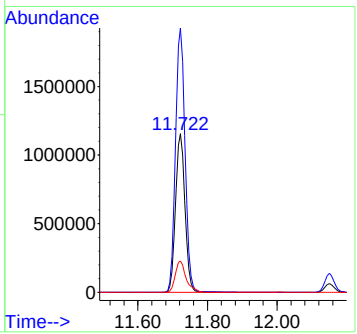


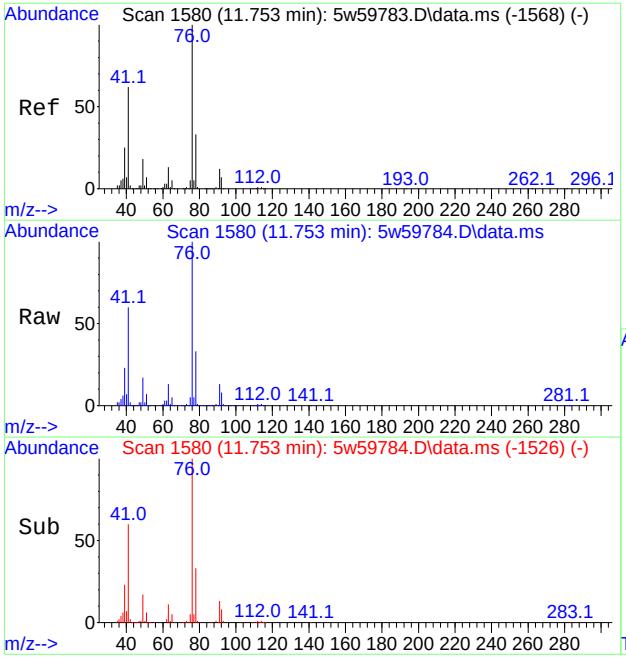


#66
TOLUENE
Concen: 23.93 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 92 Resp: 2187710

Ion	Ratio	Lower	Upper
92	100		
91	168.7	140.1	200.1
65	22.8	0.0	53.1

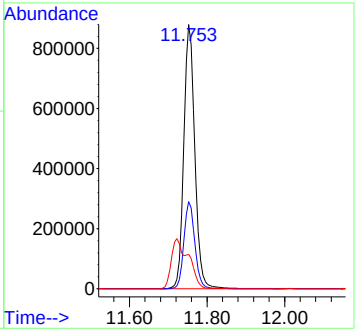


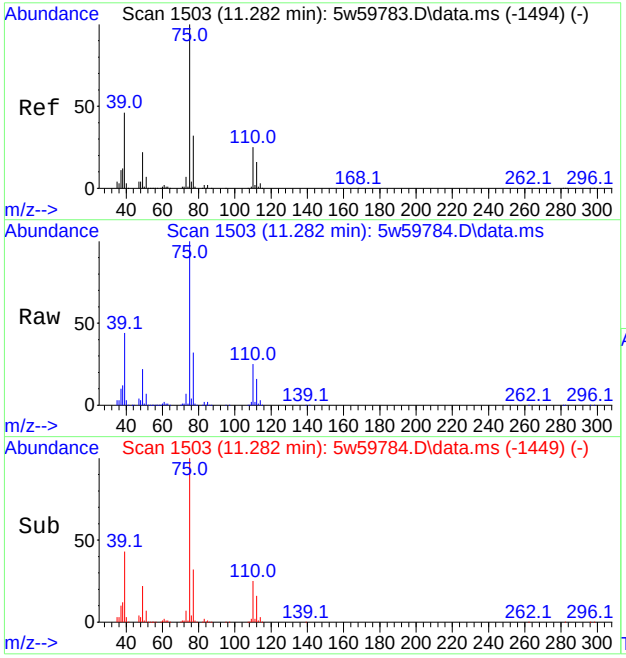


#67
1,3-DICHLOROPROPANE
Concen: 22.65 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 1738240

Ion	Ratio	Lower	Upper
76	100		
78	33.0	23.2	43.0
63	10.3	7.1	13.1

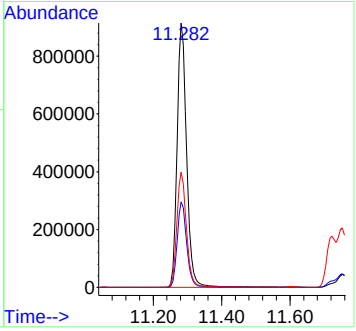


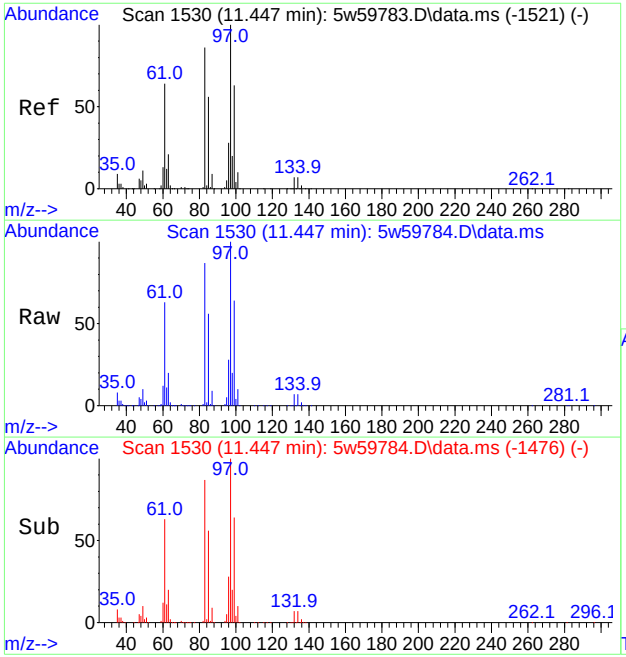


#68
trans-1,3-DICHLOROPROPENE
Concen: 22.91 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1772531

Ion	Ratio	Lower	Upper
75	100		
77	32.4	1.6	61.6
39	44.2	16.1	76.1

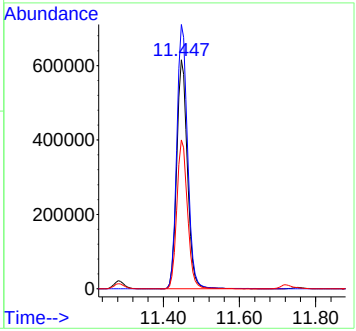


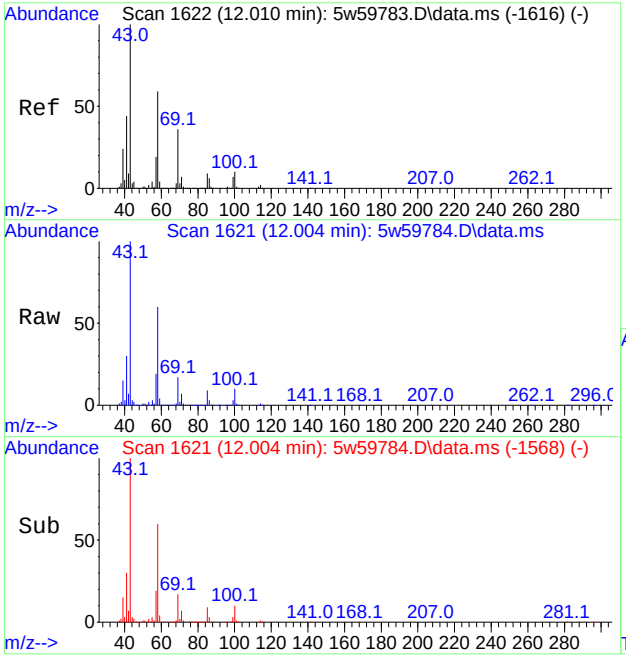


#69
1,1,2-TRICHLOROETHANE
Concen: 23.91 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 1196566

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.2	35.3	95.3

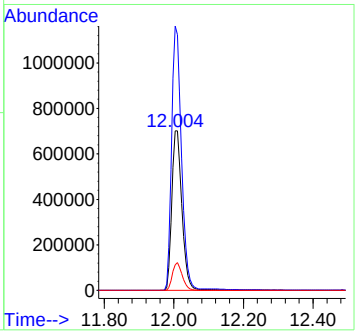


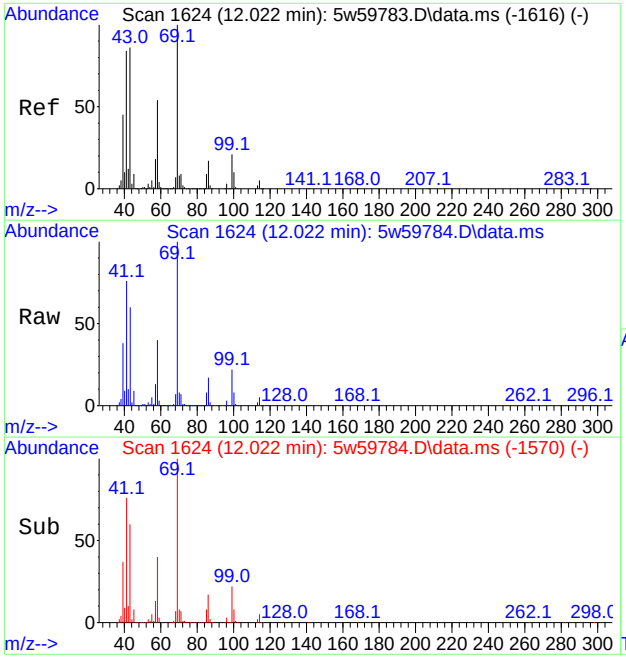


#71
2-HEXANONE
Concen: 25.09 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 1425280

Ion	Ratio	Lower	Upper
58	100		
43	161.8	137.2	197.2
100	17.1	0.0	46.9

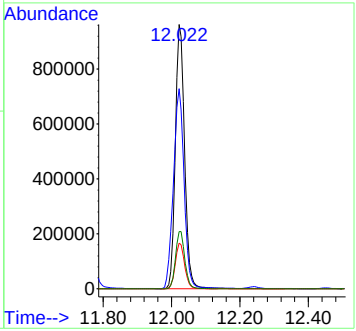


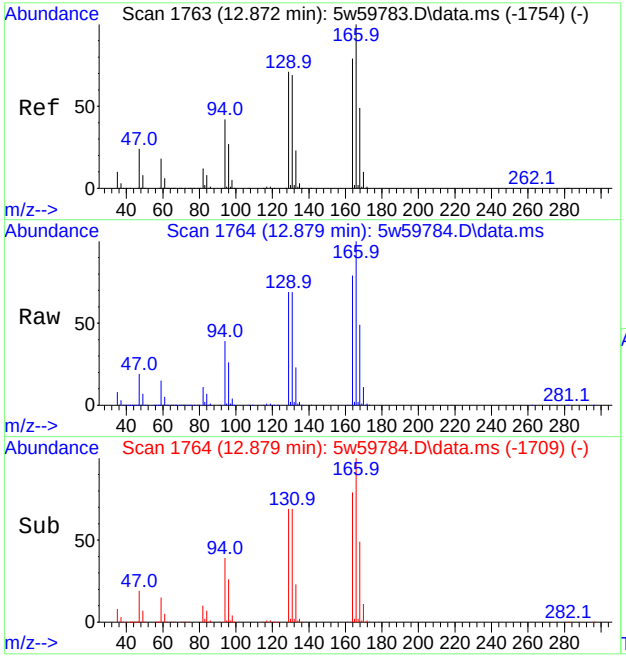


#72
ETHYL METHACRYLATE
Concen: 25.28 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1817206

Ion	Ratio	Lower	Upper
69	100		
41	87.2	64.0	119.0
86	17.4	12.0	22.4
99	21.8	15.0	27.8

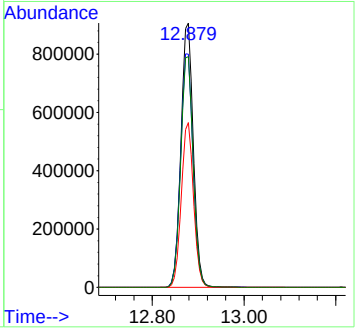


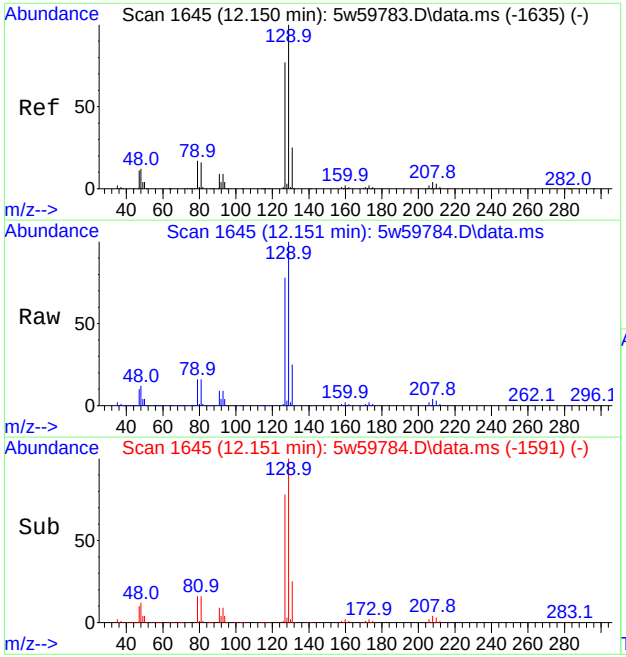


#73
TETRACHLOROETHYLENE
Concen: 20.29 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:164 Resp: 1702539

Ion	Ratio	Lower	Upper
164	100		
129	89.5	59.7	119.7
168	62.0	32.2	92.2
131	88.0	57.8	117.8

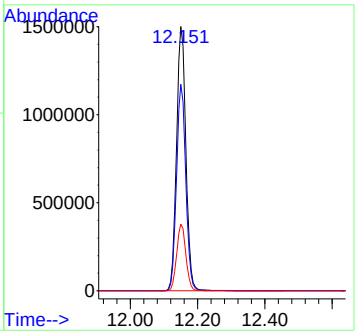


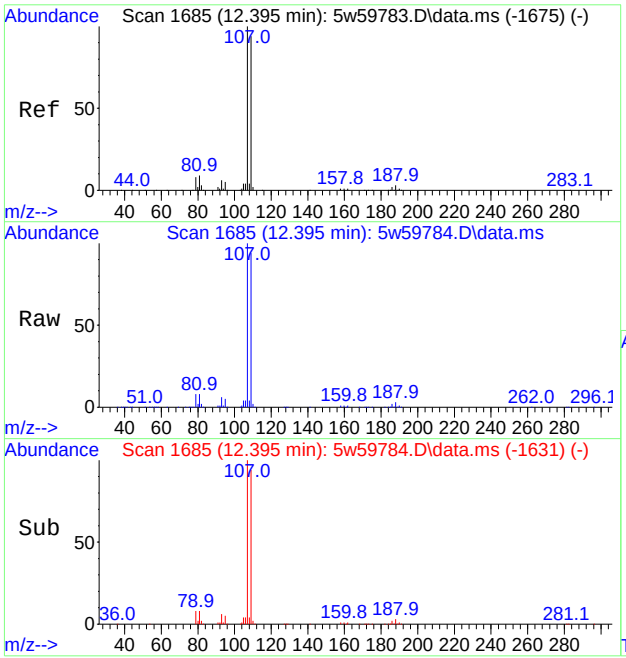


#74
DIBROMOCHLOROMETHANE
Concen: 20.55 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:129 Resp: 2900352

Ion	Ratio	Lower	Upper
129	100		
127	77.8	47.1	107.1
131	25.0	0.0	54.5

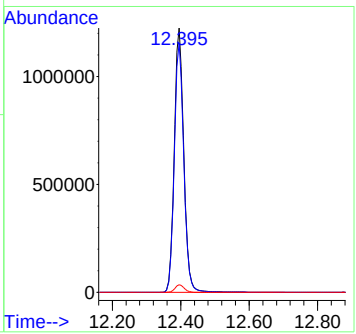


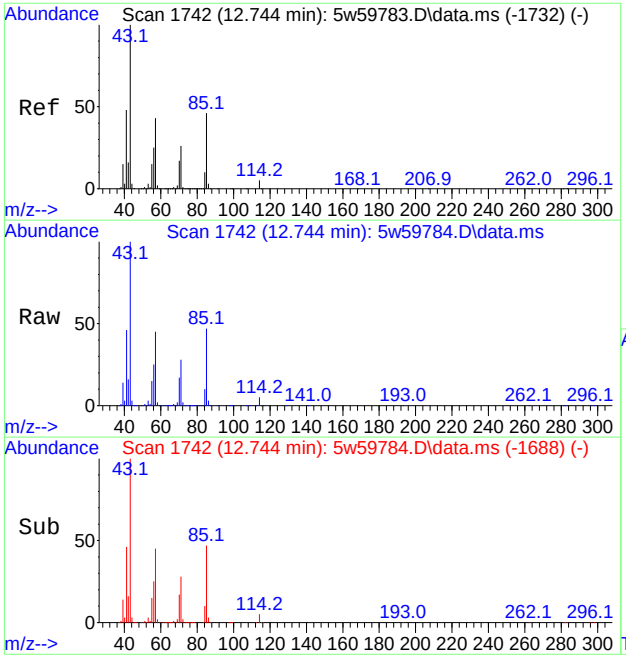


#75
1,2-DIBROMOETHANE
Concen: 22.95 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:107 Resp: 2366337

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

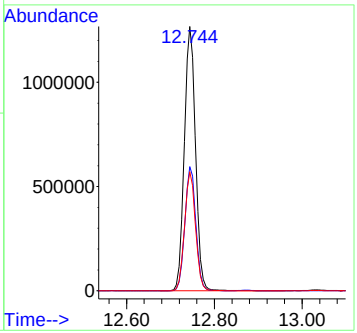


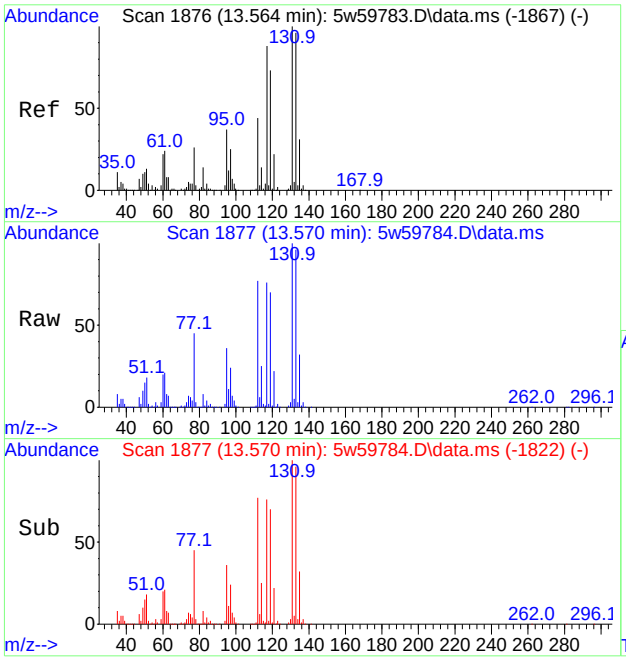


#76
OCTANE
Concen: 18.84 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2238080

Ion	Ratio	Lower	Upper
43	100		
85	46.2	14.6	74.6
57	44.3	13.7	73.7

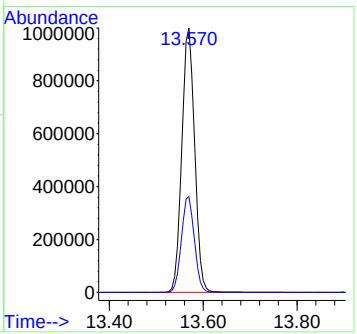


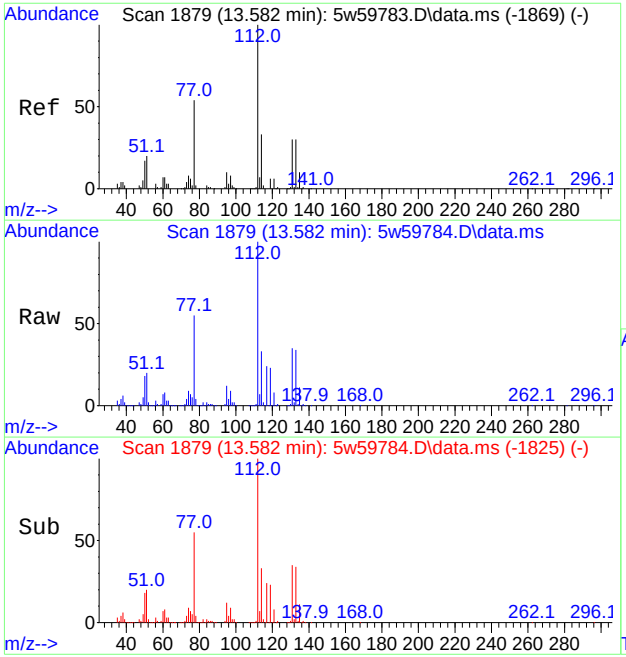


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.52 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:131 Resp: 1899714

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

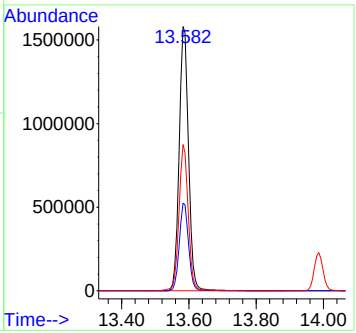


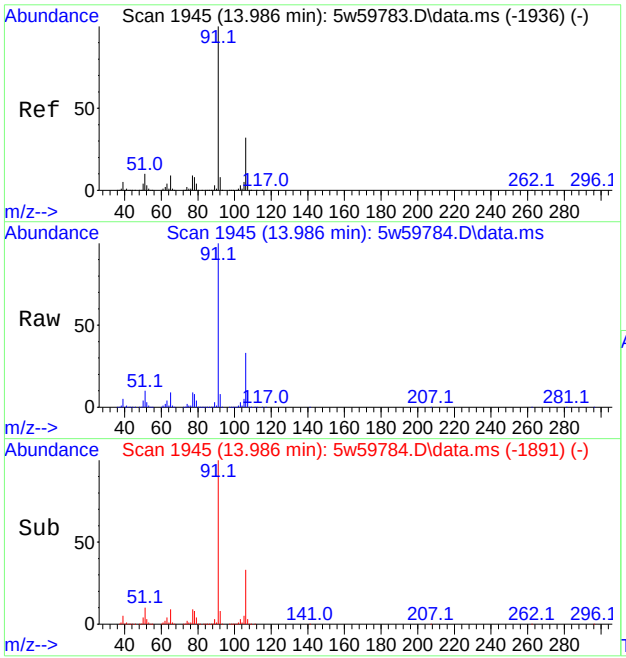


#78
CHLOROBENZENE
Concen: 20.02 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:112 Resp: 3046547

Ion	Ratio	Lower	Upper
112	100		
114	33.0	2.6	62.6
77	55.1	25.4	85.4

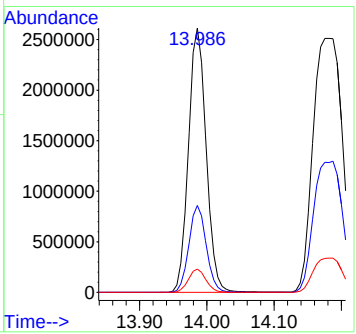


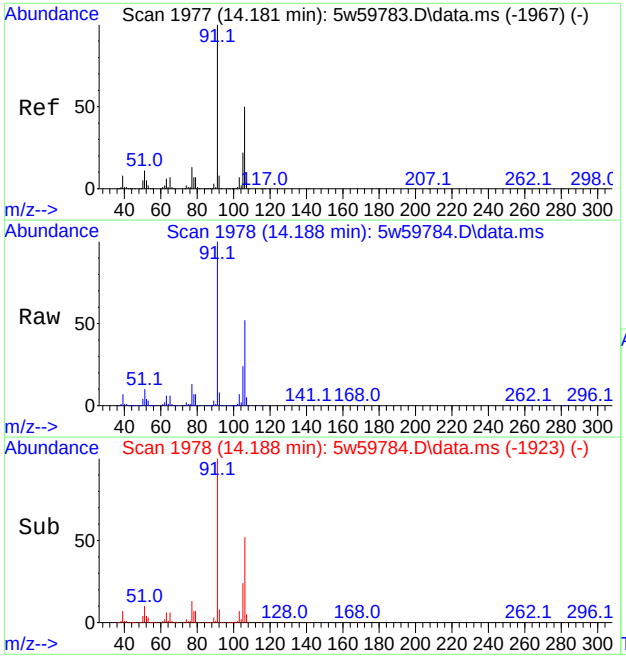


#79
ETHYLBENZENE
Concen: 22.00 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4800136

Ion	Ratio	Lower	Upper
91	100		
106	32.3	1.3	61.3
77	8.7	0.0	38.6

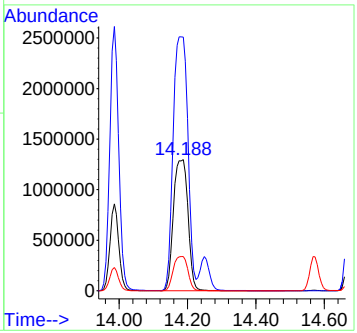


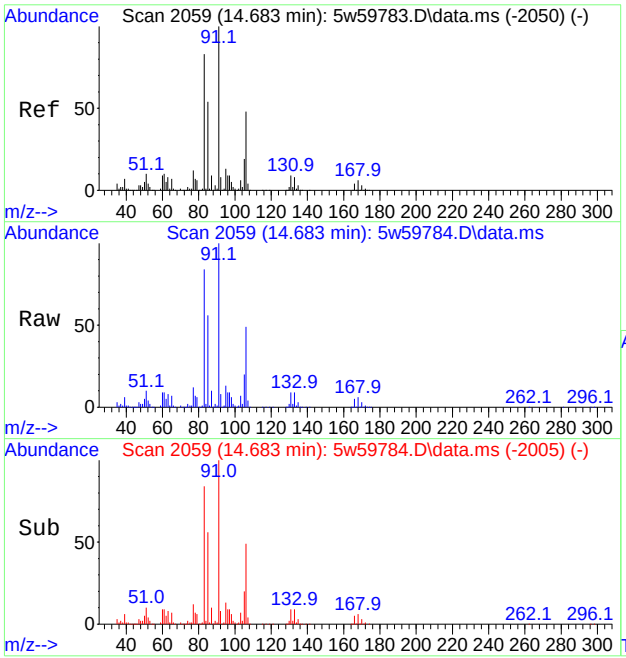


#80
m,p-XYLENE
Concen: 46.33 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 3838940

Ion	Ratio	Lower	Upper
106	100		
91	193.3	171.0	231.0
77	26.1	0.0	56.7

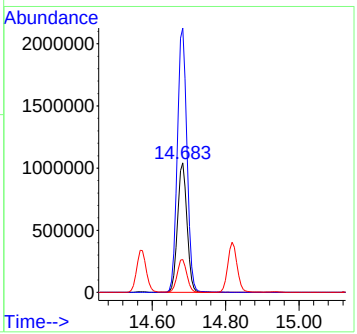


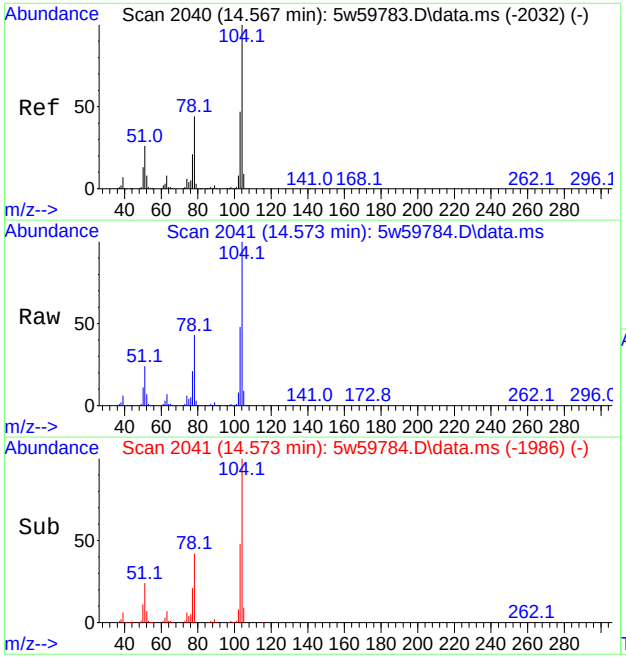


#81
o-XYLENE
Concen: 24.57 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 1866956

Ion	Ratio	Lower	Upper
106	100		
91	207.5	181.6	241.6
77	26.0	0.0	56.6

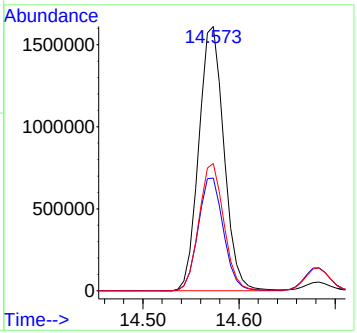


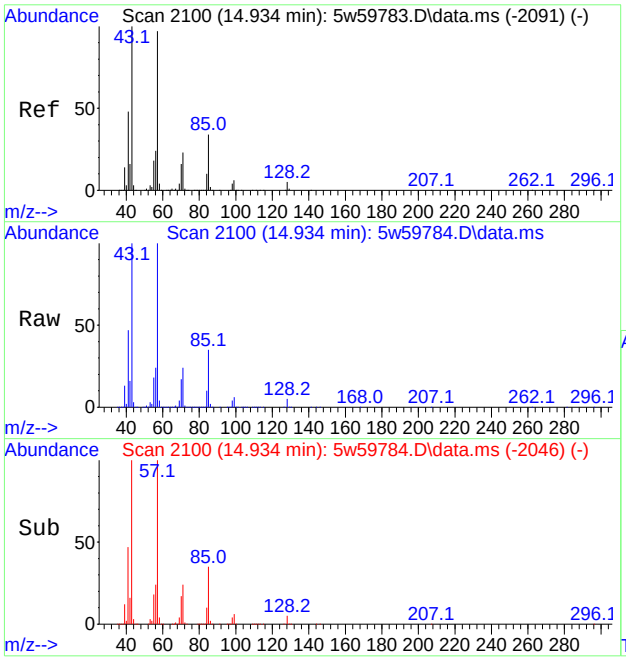


#82
STYRENE
Concen: 25.25 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:104 Resp: 2939414

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.7	17.2	77.2

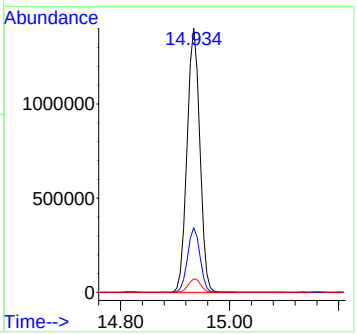


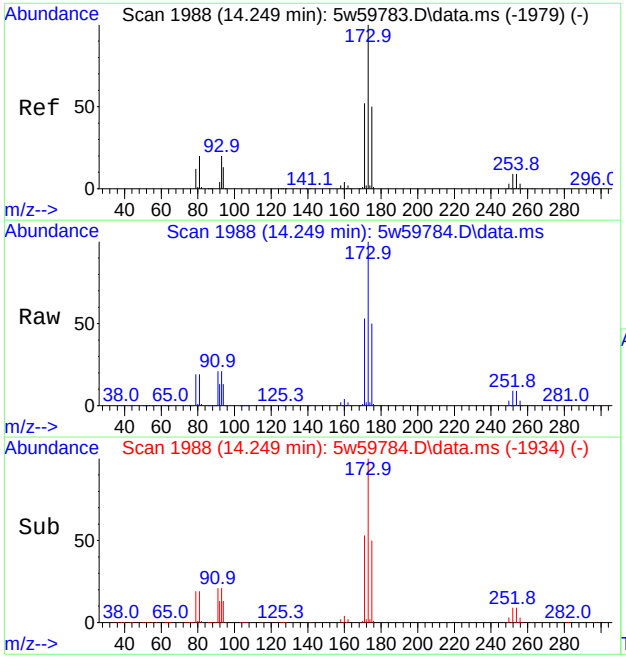


#83
NONANE
Concen: 19.27 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2271246

Ion	Ratio	Lower	Upper
43	100		
71	23.9	0.0	52.7
128	5.0	0.0	34.7

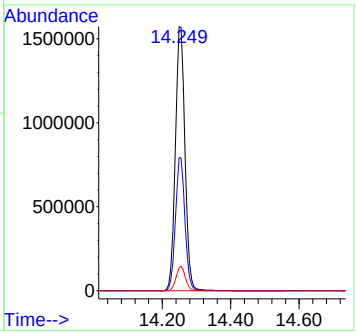


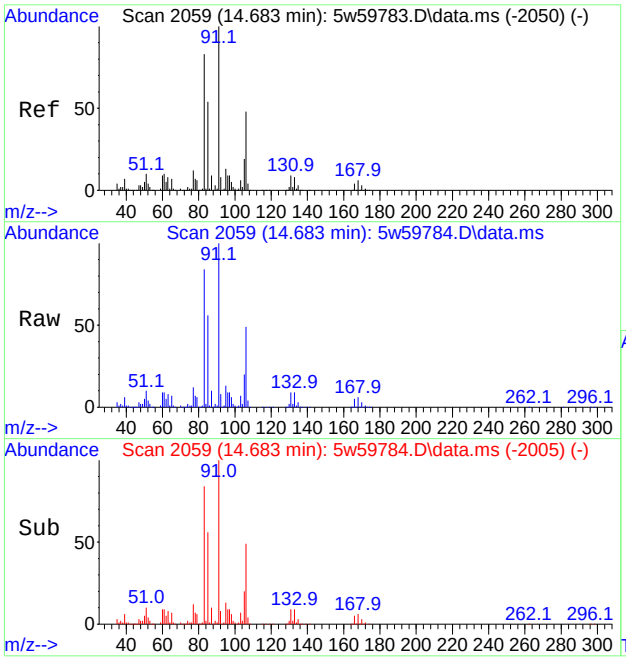


#84
BROMOFORM
Concen: 21.19 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:173 Resp: 3083788

Ion	Ratio	Lower	Upper
173	100		
175	49.9	19.6	79.6
254	9.1	0.0	39.0

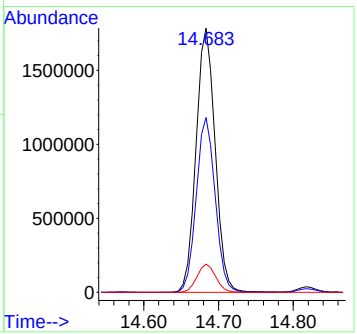


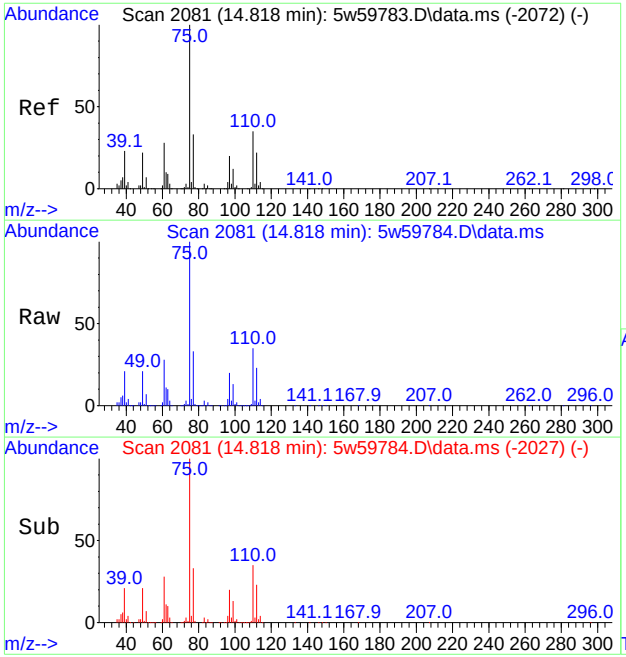


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 23.67 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 3171683

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.2	95.2
131	10.5	0.0	40.3

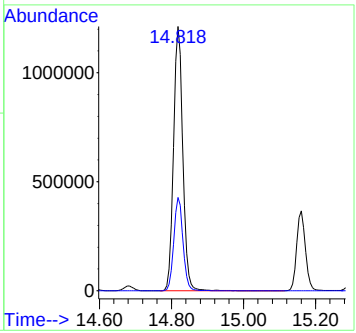


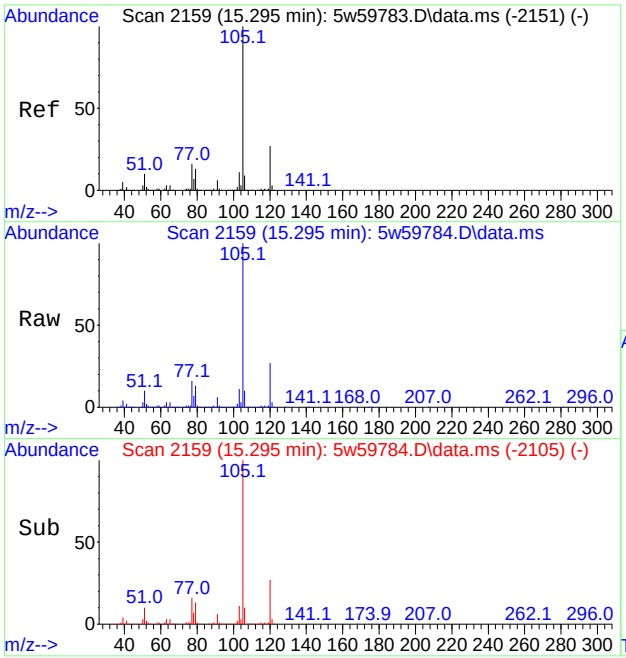


#87
1,2,3-TRICHLOROPROPANE
Concen: 19.01 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 2166410

Ion	Ratio	Lower	Upper
75	100		
110	35.1	4.4	64.4

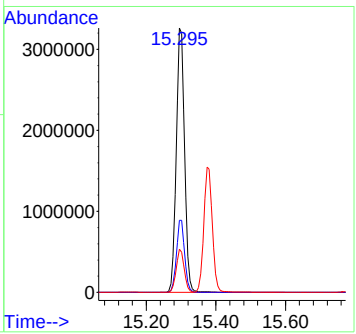


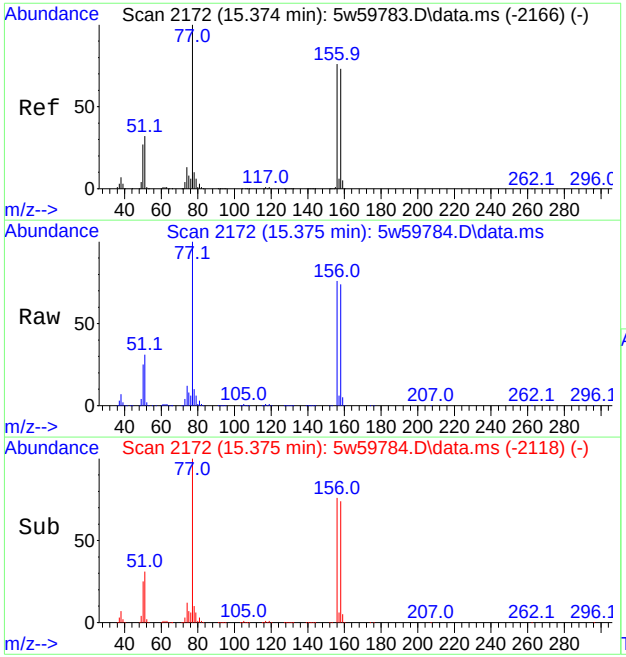


#88
ISOPROPYLBENZENE
Concen: 21.38 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5426205

Ion	Ratio	Lower	Upper
105	100		
120	26.8	0.0	56.0
77	15.7	0.0	45.6

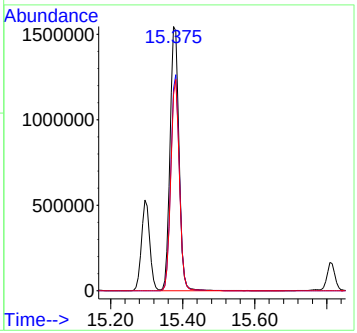


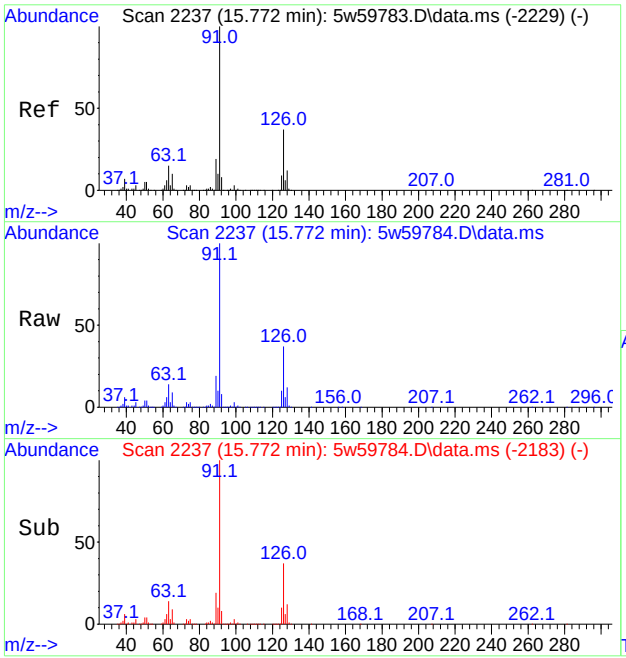


#89
BROMOBENZENE
Concen: 19.84 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 77 Resp: 2635582

Ion	Ratio	Lower	Upper
77	100		
156	79.3	54.9	101.9
158	77.4	53.5	99.3

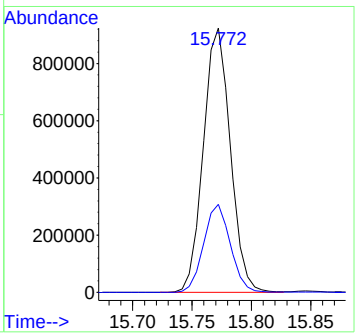


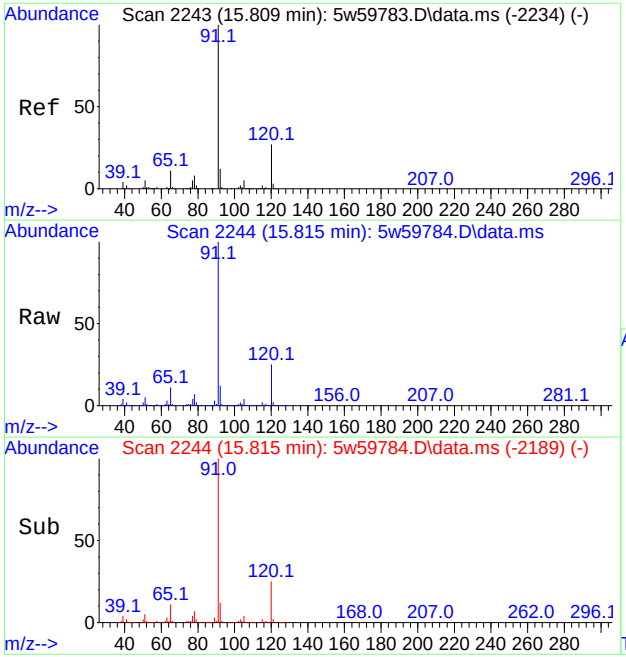


#90
2-CHLOROTOLUENE
Concen: 21.55 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:126 Resp: 1458347

Ion	Ratio	Lower	Upper
126	100		
128	33.0	2.7	62.7

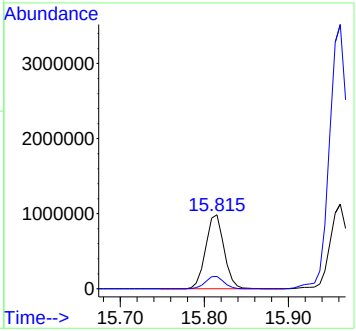


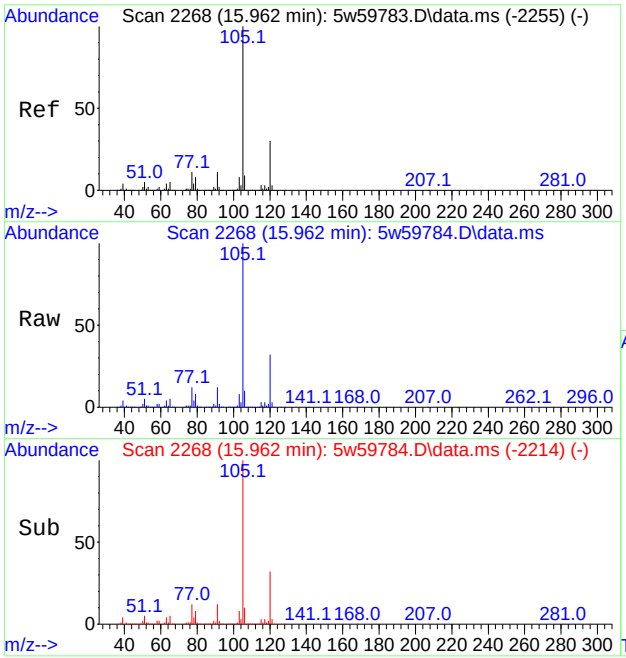


#91
n-PROPYLBENZENE
Concen: 22.21 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:120 Resp: 1498983

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

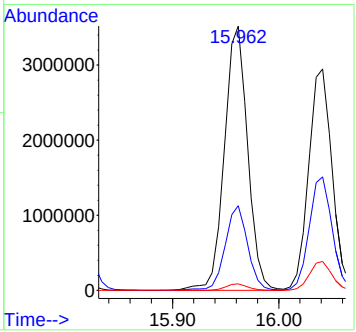


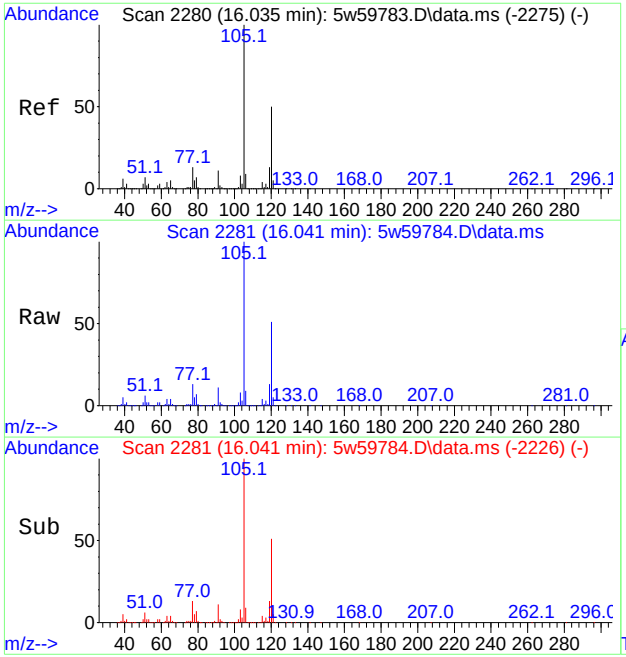


#92
4-ETHYLTOLUENE
Concen: 23.50 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5359201

Ion	Ratio	Lower	Upper
105	100		
120	30.9	0.0	59.9
119	2.4	0.0	32.3

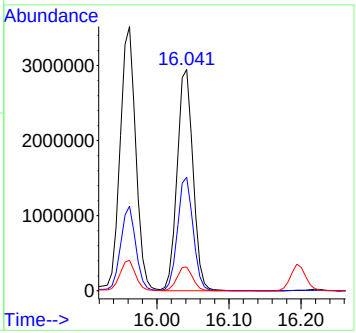


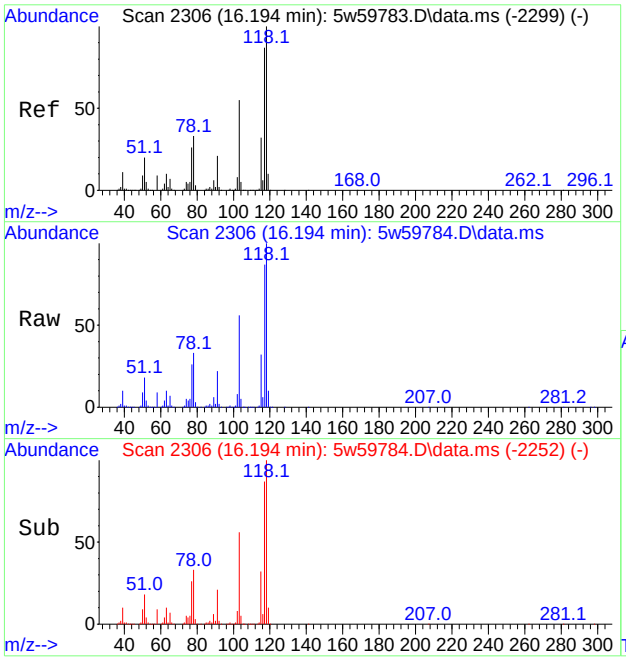


#93
1,3,5-TRIMETHYLBENZENE
Concen: 21.37 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4517483

Ion	Ratio	Lower	Upper
105	100		
120	50.2	19.4	79.4
91	10.8	0.0	40.8

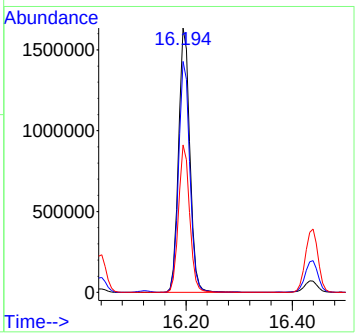


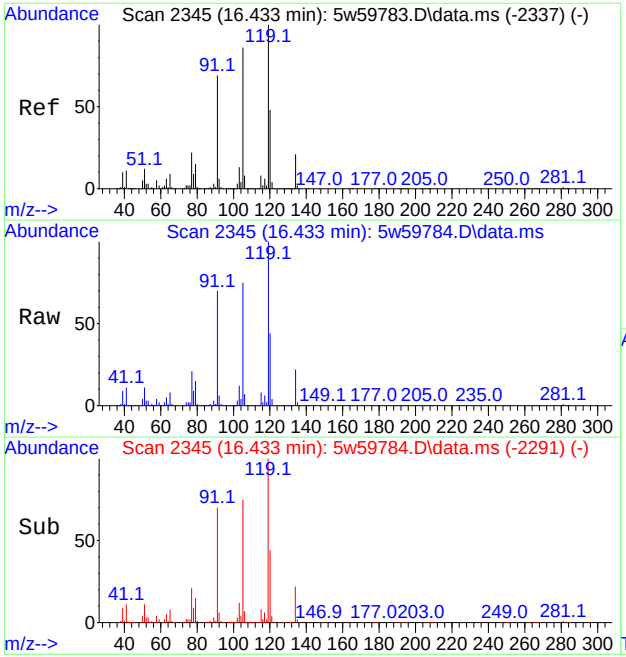


#94
ALPHA-METHYLSTYRENE
Concen: 23.73 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:118 Resp: 2401651

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.1	38.6	71.8

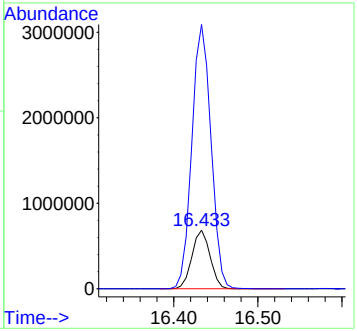


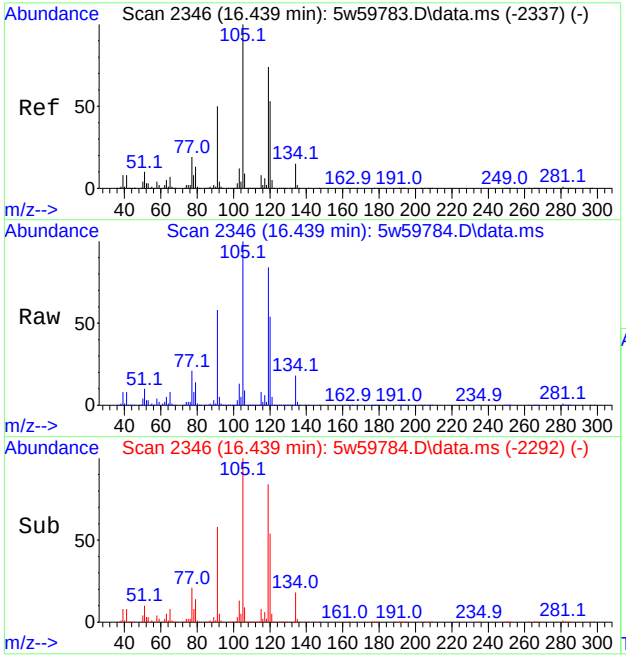


#95
tert-BUTYLBENZENE
Concen: 23.44 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1027177

Ion	Ratio	Lower	Upper
134	100		
119	476.8	459.3	519.3

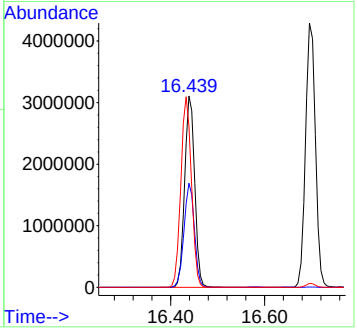


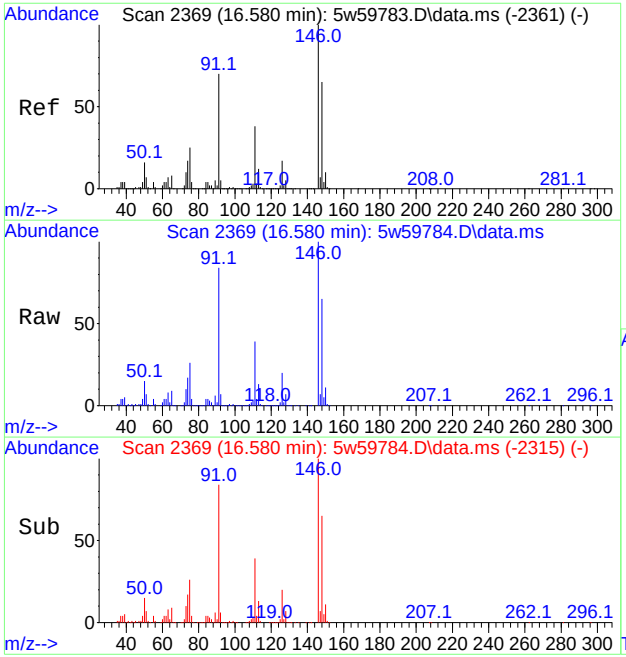


#96
1,2,4-TRIMETHYLBENZENE
Concen: 22.68 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4619537

Ion	Ratio	Lower	Upper
105	100		
120	56.6	25.7	85.7
119	106.0	75.7	135.7

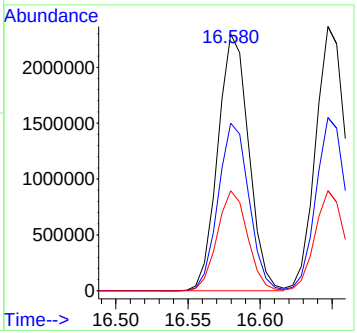


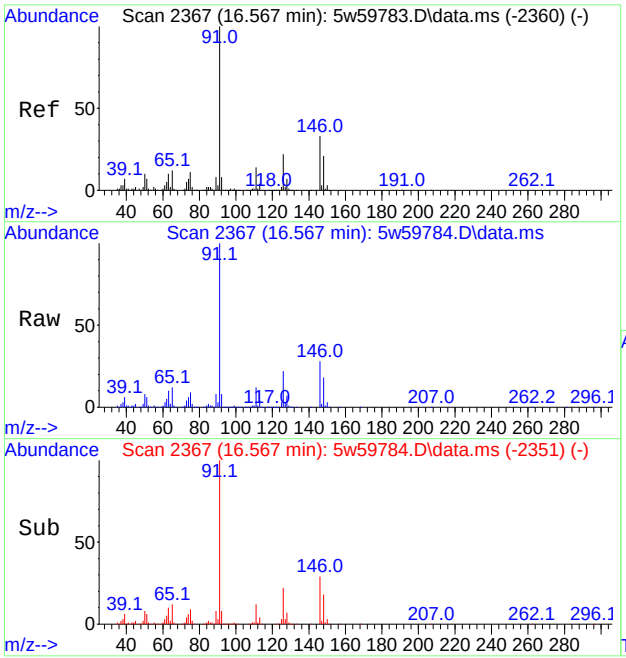


#97
m-DICHLOROBENZENE
Concen: 21.01 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3436542

Ion	Ratio	Lower	Upper
146	100		
148	65.0	34.8	94.8
111	38.3	8.2	68.2

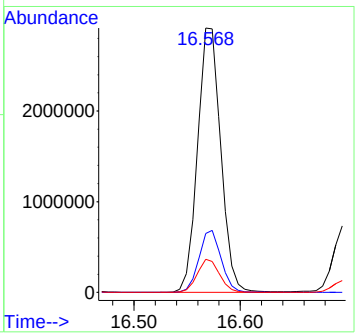


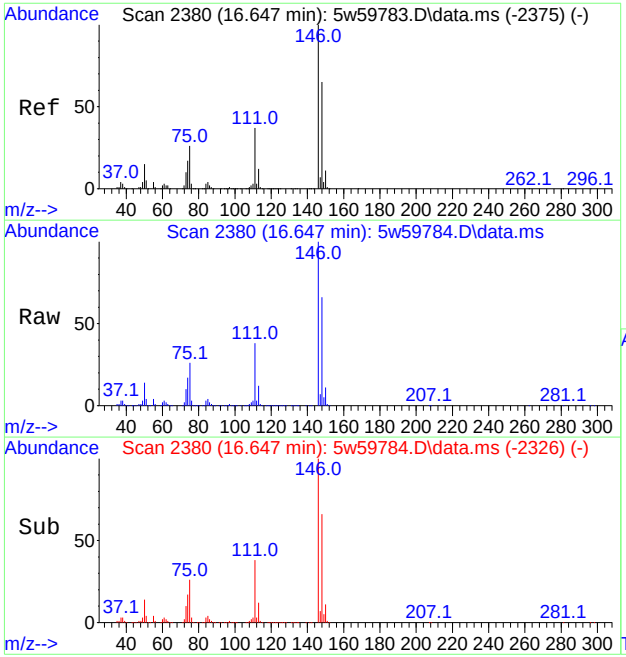


#98
BENZYL CHLORIDE
Concen: 23.83 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4433280

Ion	Ratio	Lower	Upper
91	100		
126	22.5	0.0	51.7
65	12.0	0.0	42.2

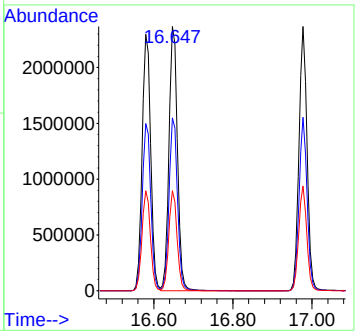


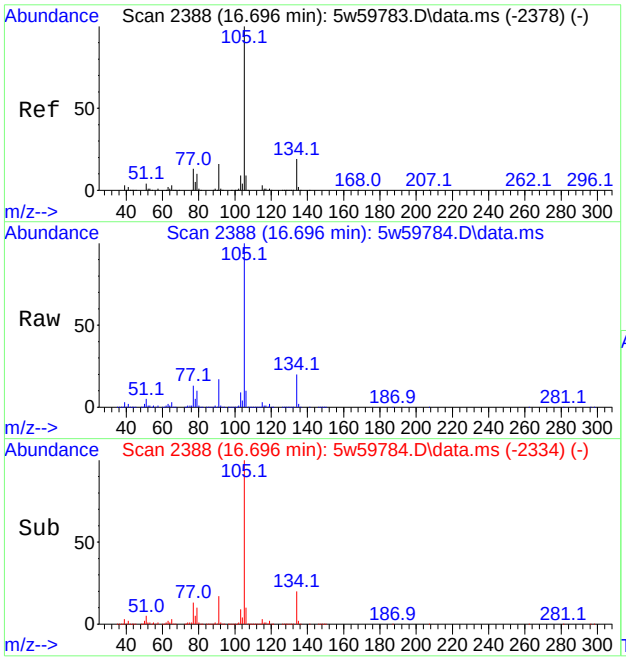


#99
p-DICHLOROBENZENE
Concen: 20.84 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3529112

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	37.0	6.7	66.7

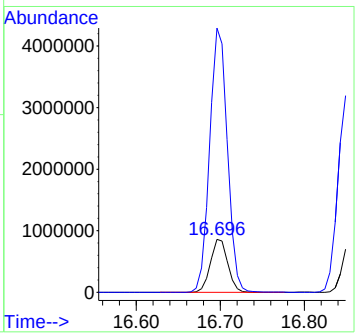


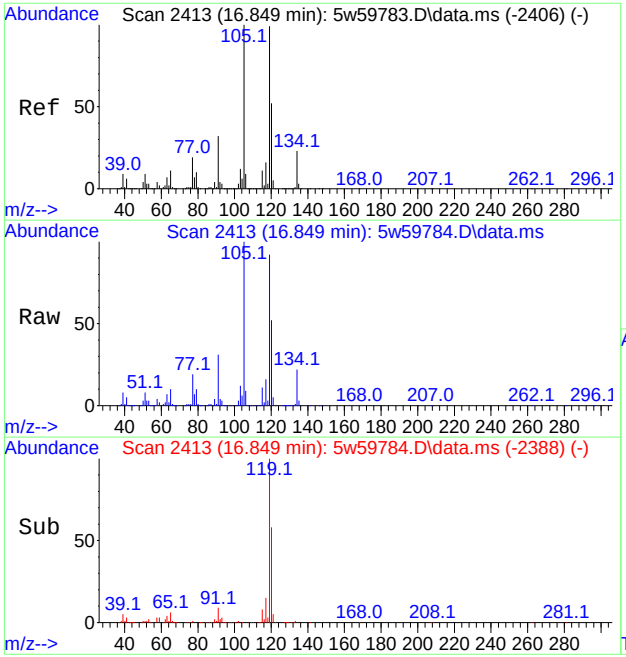


#100
sec-BUTYLBENZENE
Concen: 22.03 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1236753

Ion	Ratio	Lower	Upper
134	100		
105	509.0	502.5	562.5

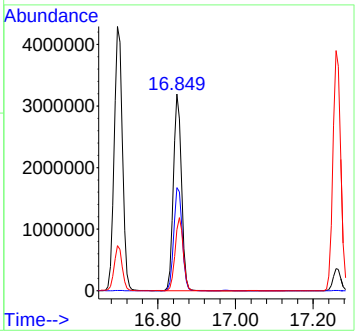


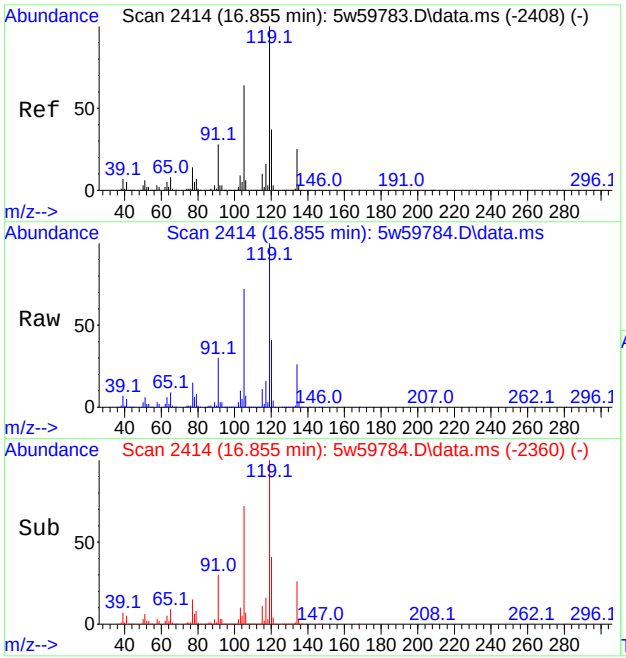


#101
1,2,3-TRIMETHYLBENZENE
Concen: 21.34 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4652009

Ion	Ratio	Lower	Upper
105	100		
120	54.4	23.5	83.5
91	37.5	7.4	67.4

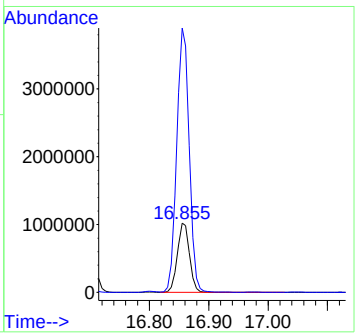


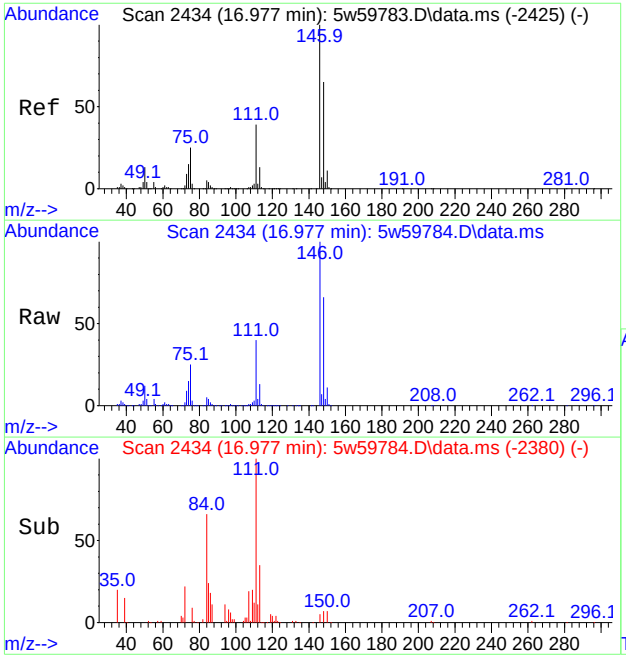


#102
p-ISOPROPYLTOLUENE
Concen: 22.76 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1464768

Ion	Ratio	Lower	Upper
134	100		
119	393.7	377.7	437.7

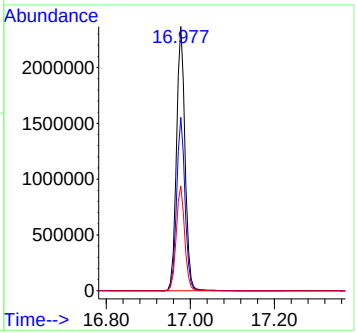


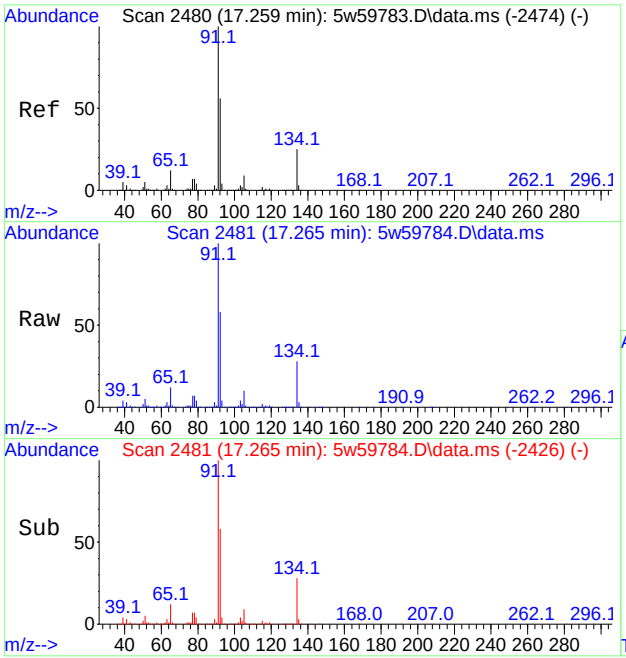


#103
o-DICHLOROBENZENE
Concen: 20.30 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3353483

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.3	94.3
111	39.4	9.2	69.2

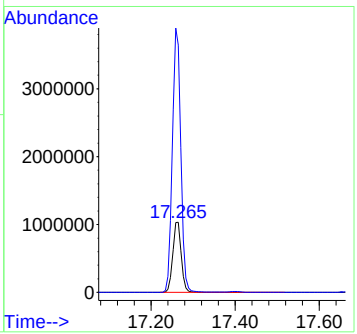


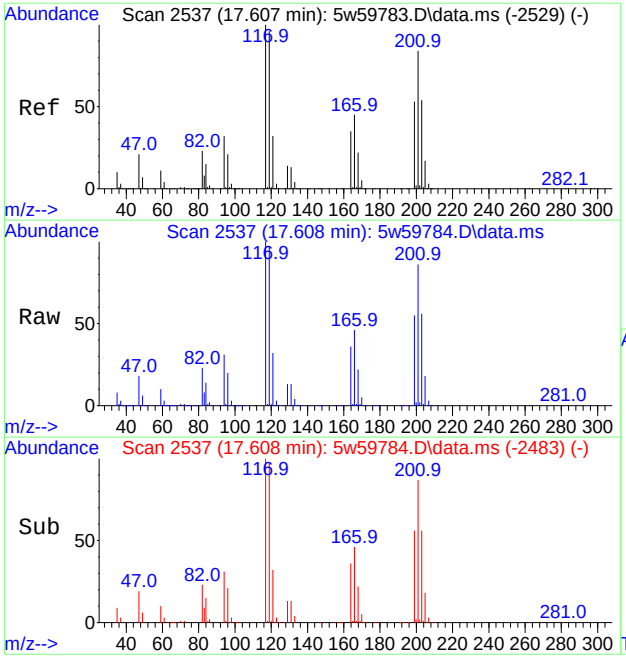


#104
n-BUTYLBENZENE
Concen: 24.56 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1447206

Ion	Ratio	Lower	Upper
134	100		
91	376.5	363.1	423.1

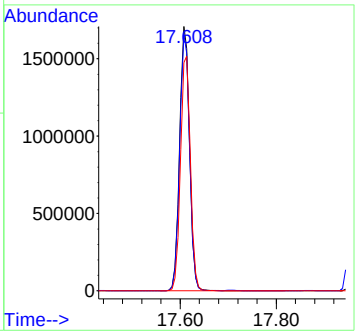


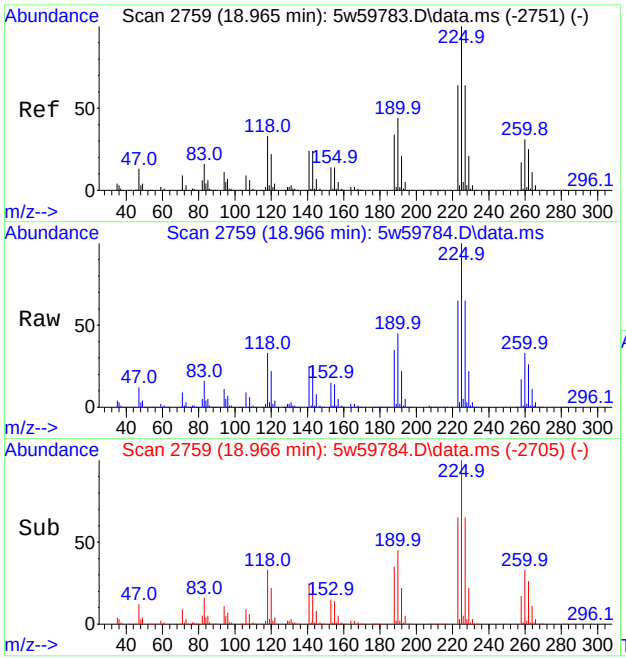


#105
HEXACHLOROETHANE
Concen: 22.06 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2435886

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	89.0	61.1	113.5

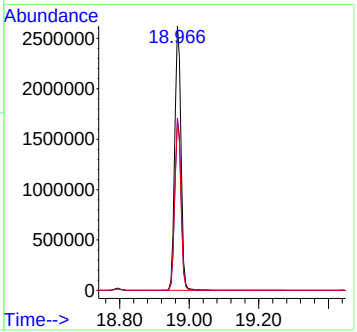


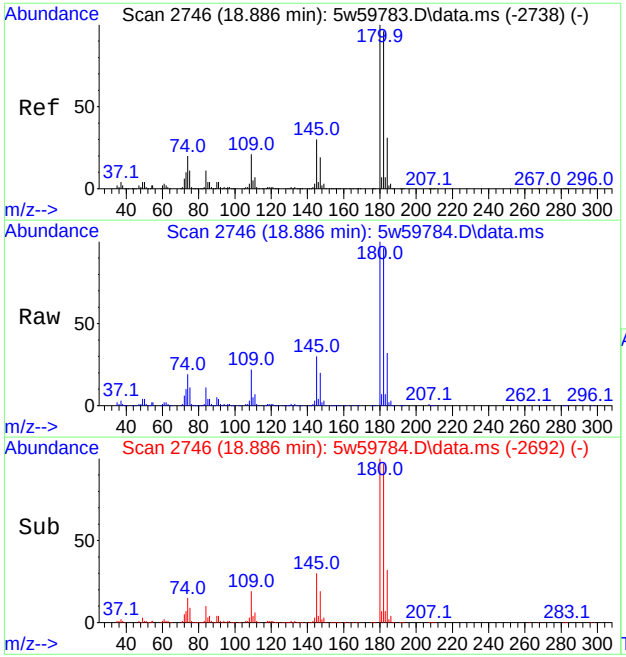


#106
HEXACHLOROBUTADIENE
Concen: 18.79 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:225 Resp: 3259497

Ion	Ratio	Lower	Upper
225	100		
227	64.9	34.2	94.2
223	64.0	33.3	93.3

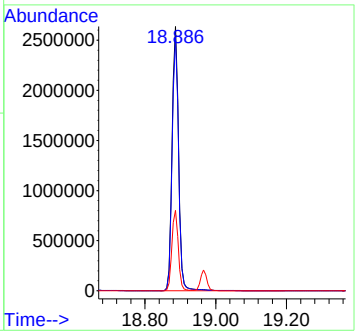


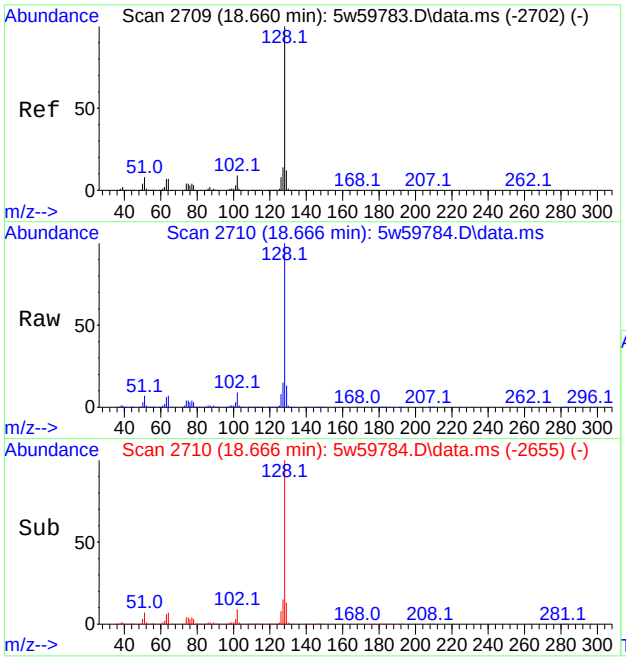


#107
1,2,4-TRICHLOROBENZENE
Concen: 28.94 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:180 Resp: 3337105

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	30.1	0.0	59.4

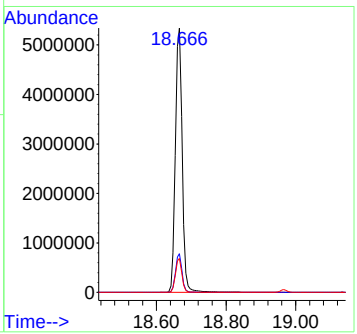


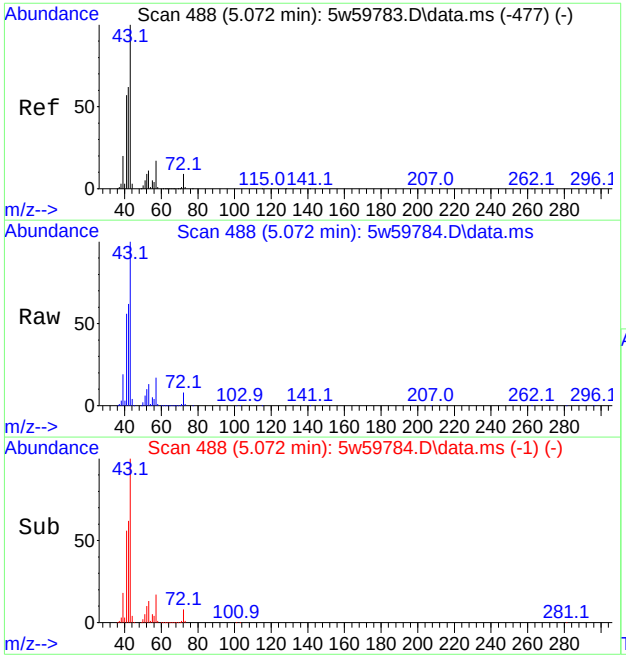


#108
NAPHTHALENE
Concen: 26.85 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:128 Resp: 7329968

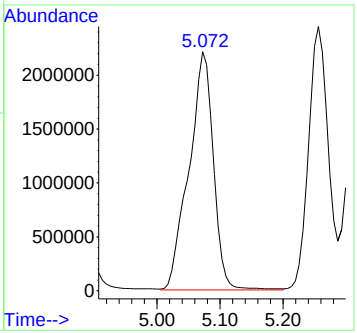
Ion	Ratio	Lower	Upper
128	100		
127	14.0	0.0	43.3
129	12.2	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 16.52 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:TIC Resp: 5936529



7.2.7

7

Manual Integration Approval Summary

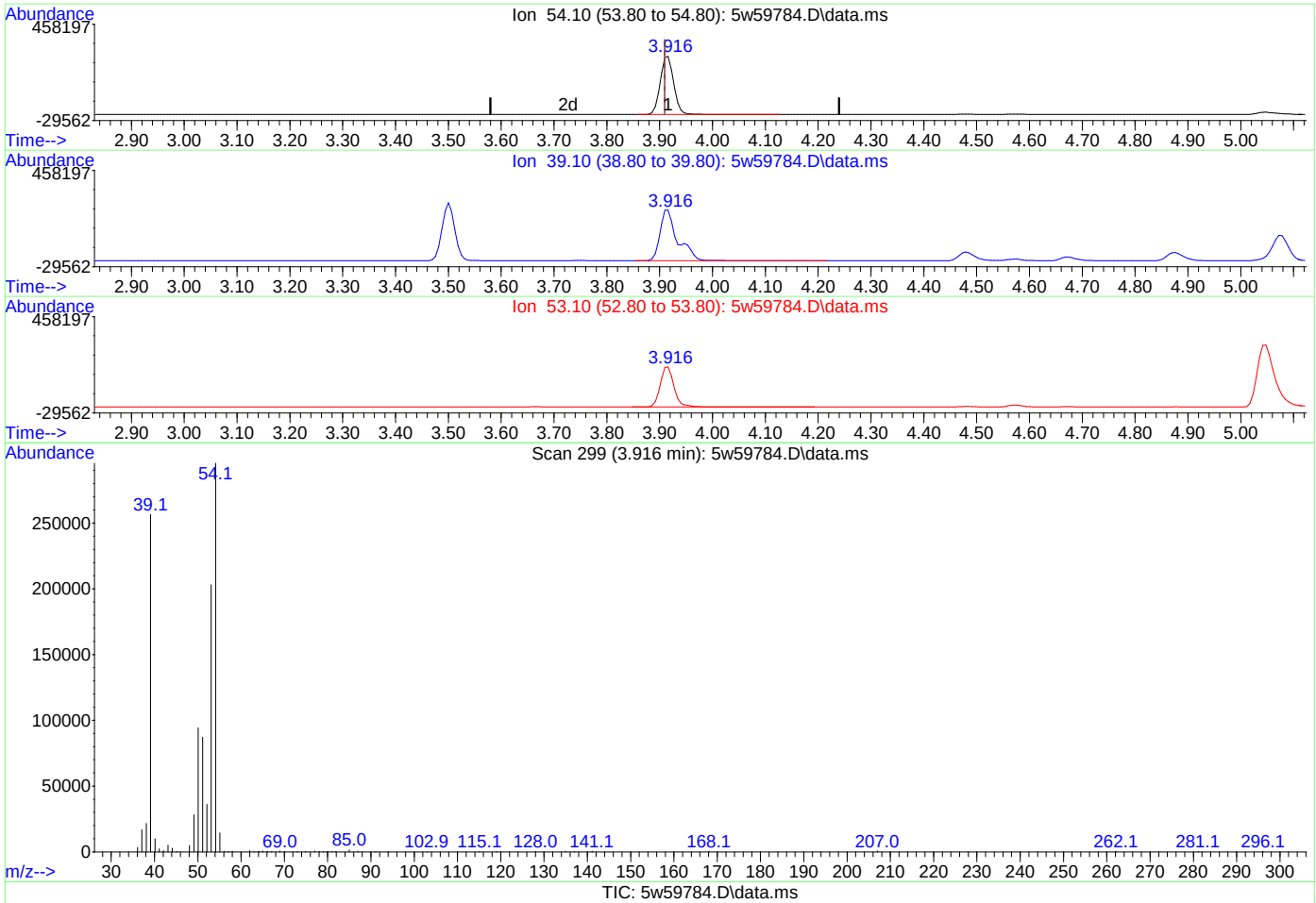
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59784.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:12 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		3.92	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV

response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	113.35
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

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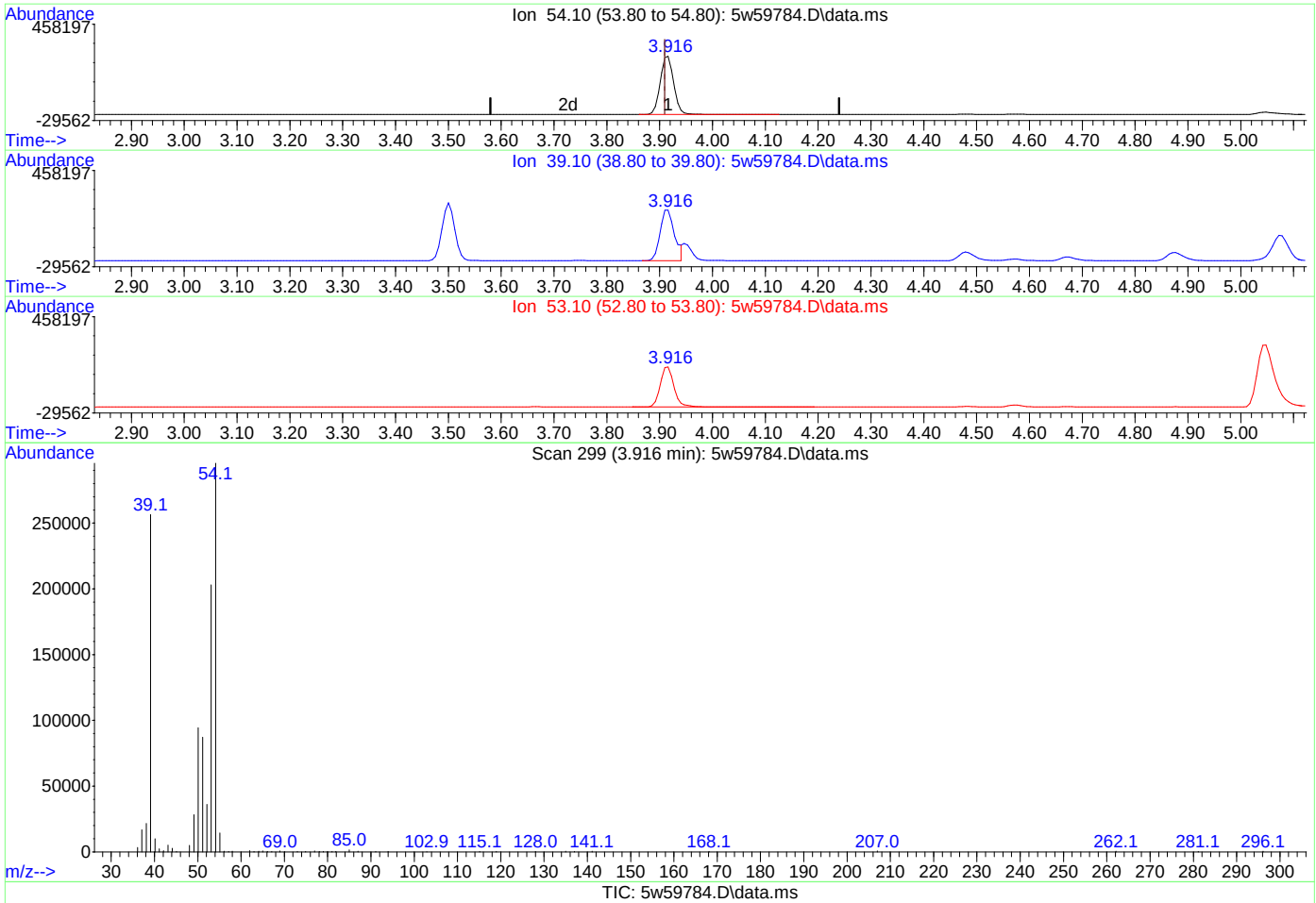
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV m

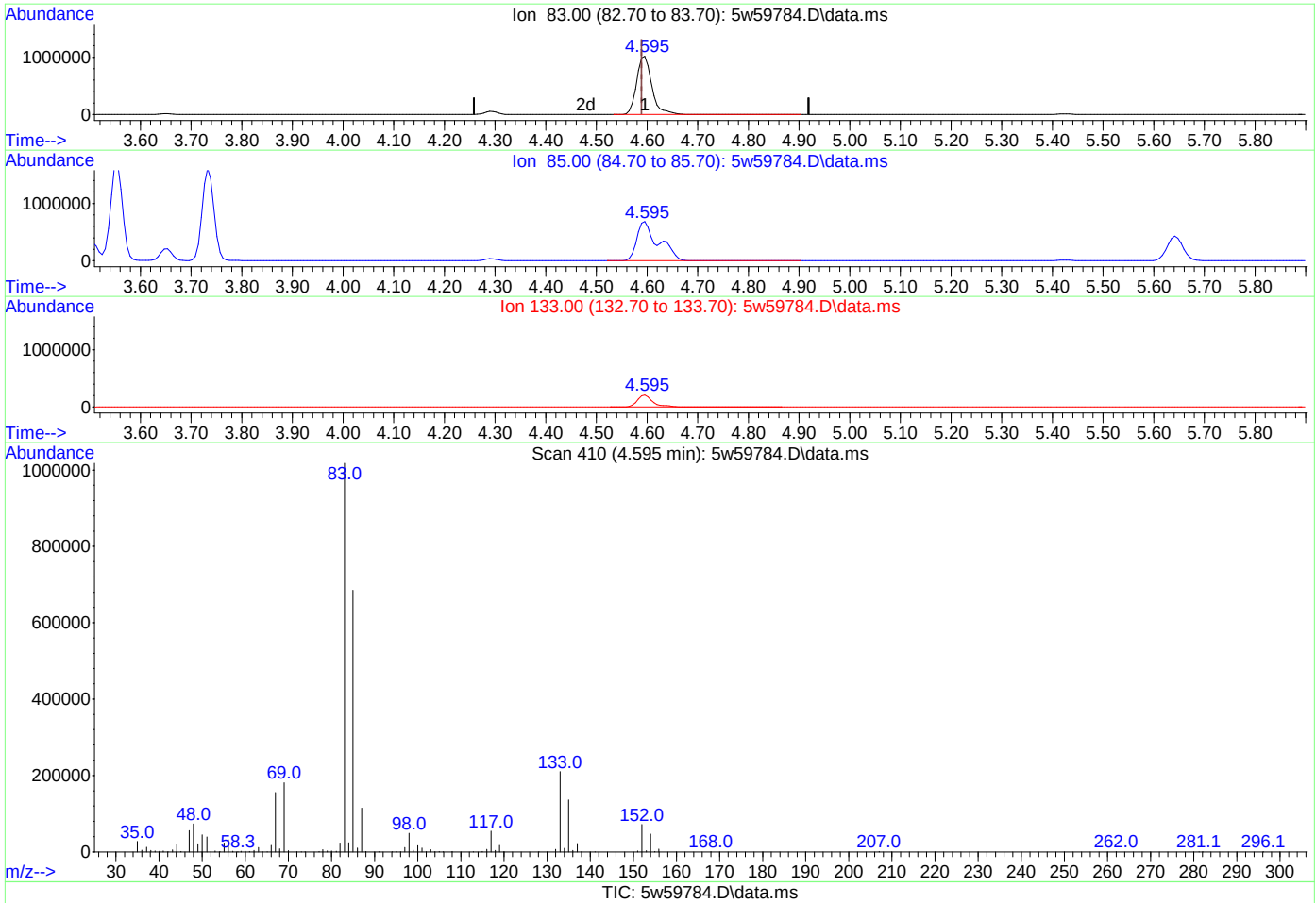
response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	93.33
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV

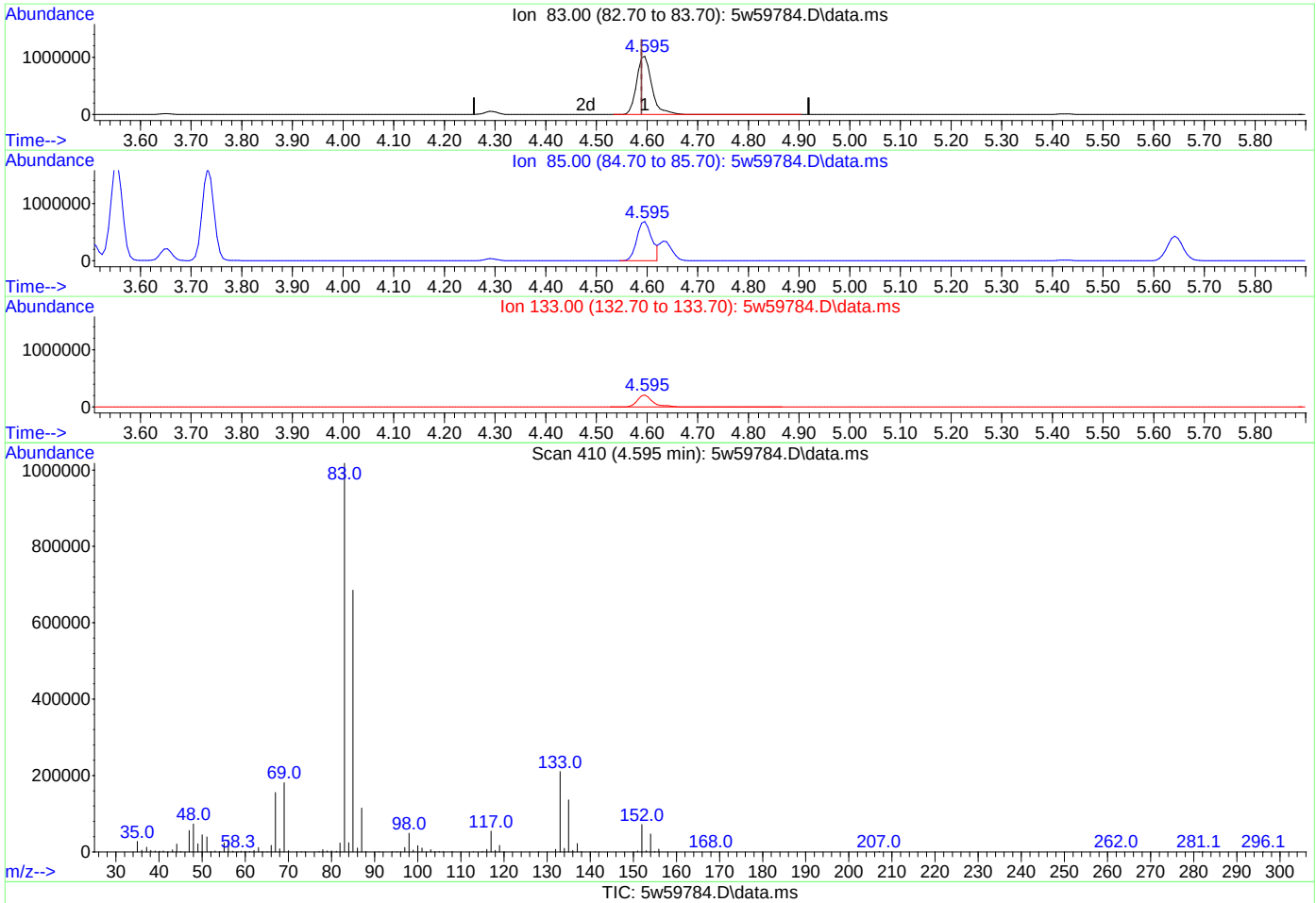
response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.23#
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV m

response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	66.65
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
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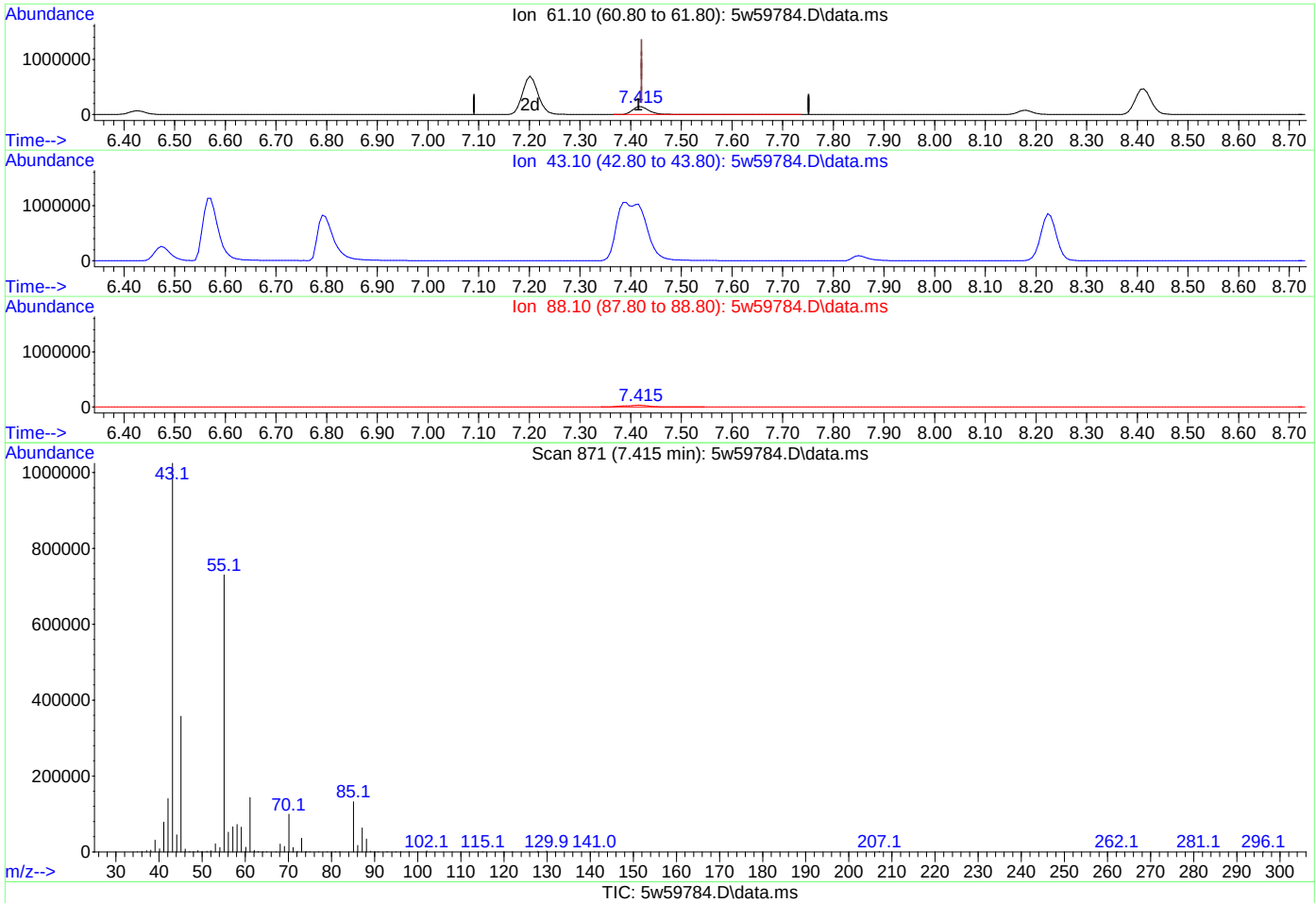


TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV

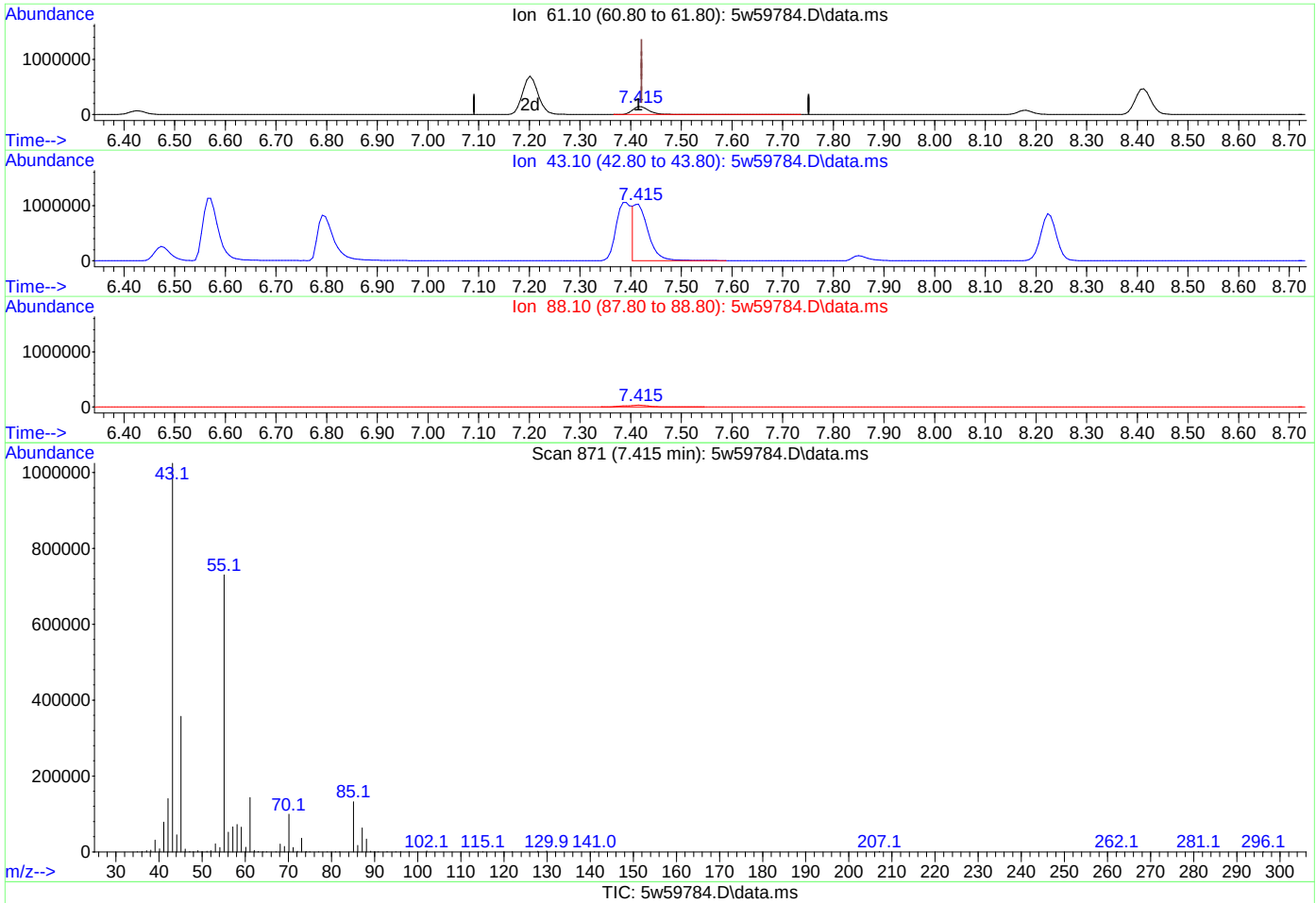
response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV m

response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	580.22
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
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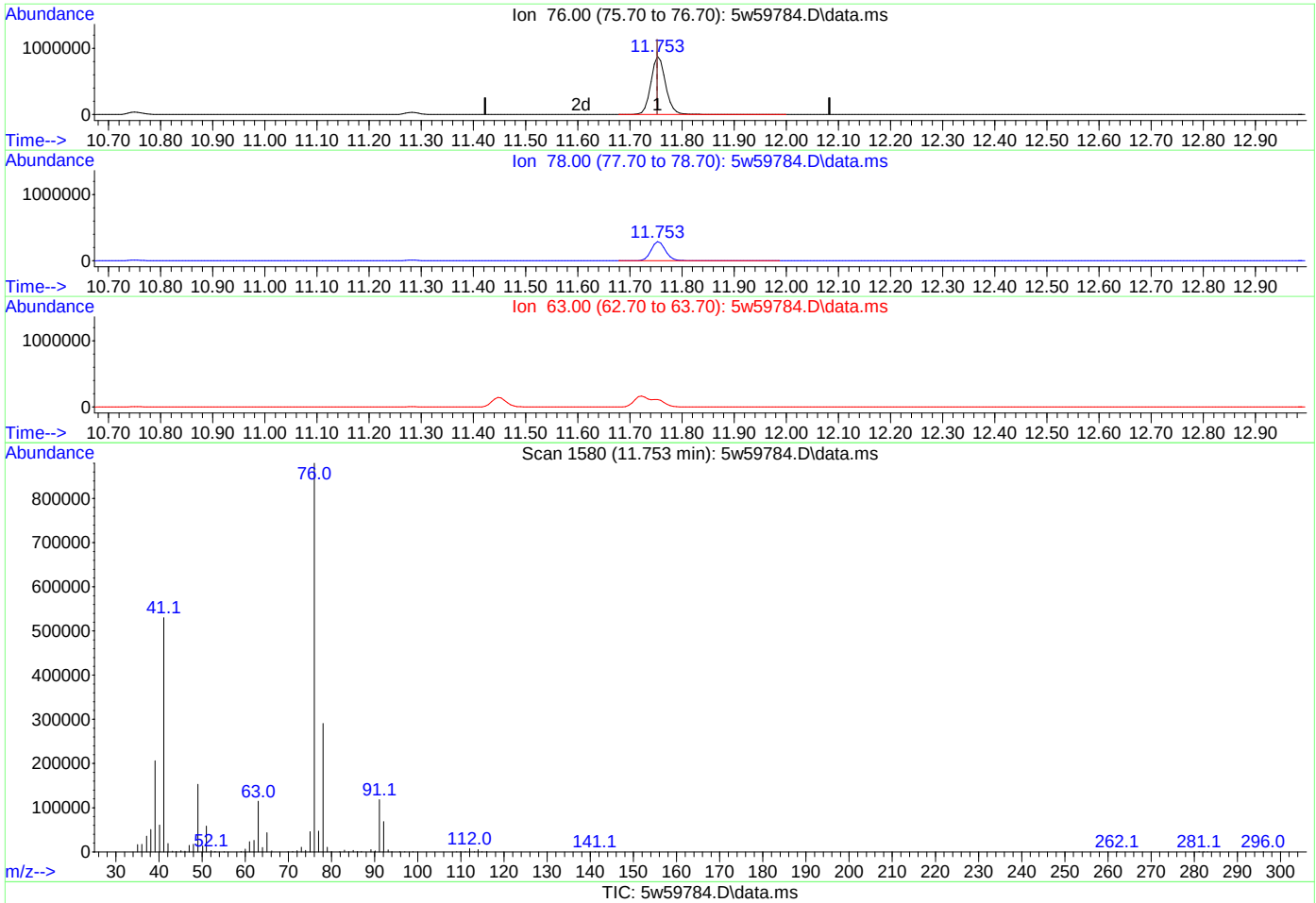


TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV

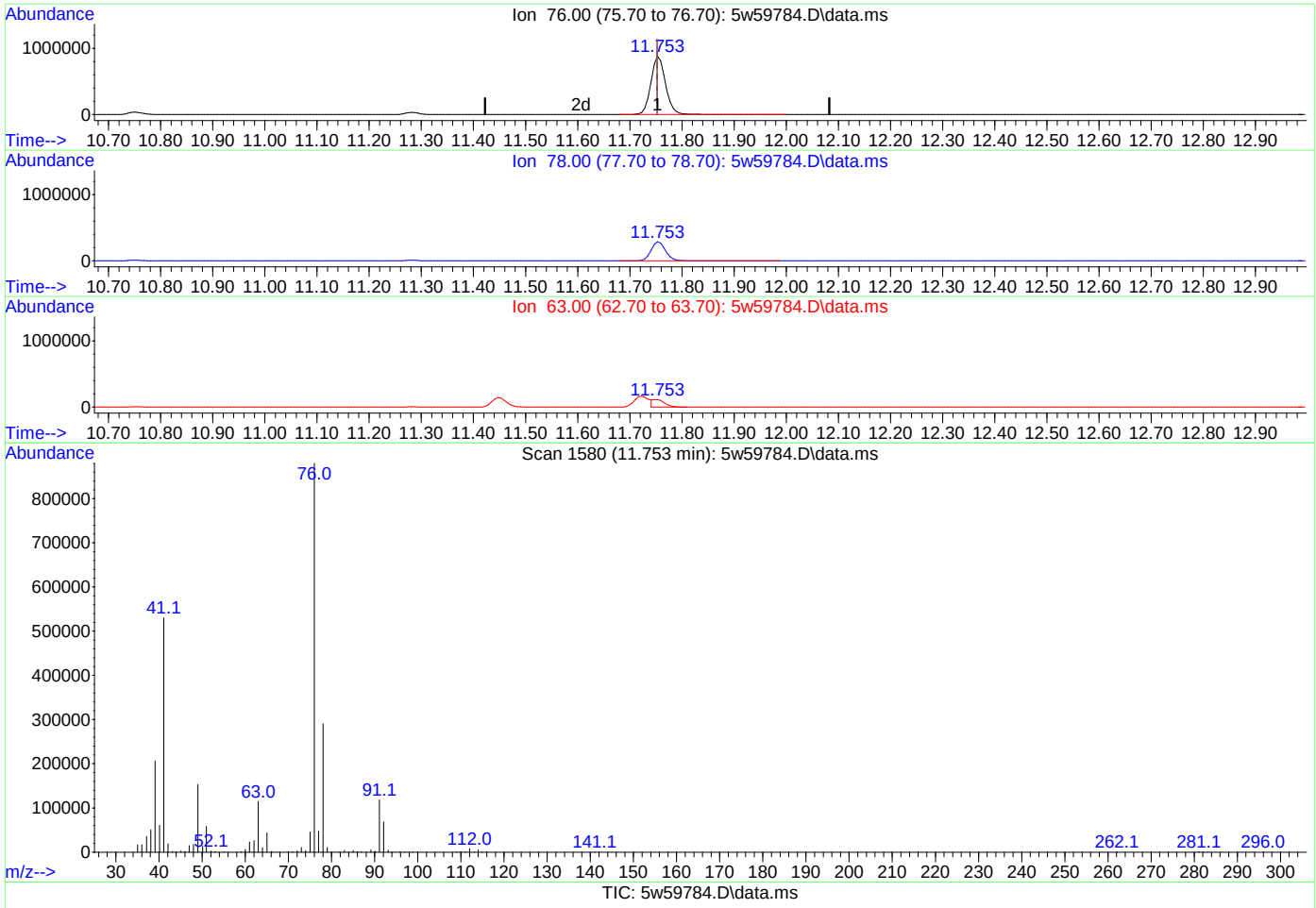
response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV m

response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	10.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	458599	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1942721	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1247352	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	458722	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1398246	9.05	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.50%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	510693	9.37	PPBV	100
3) FREON 152A	3.445	65	1313214	37.53	PPBV	97
4) CHLORODIFLUOROMETHANE	3.476	67	606229	38.04	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	3030922	39.97	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.549	85	5182161	34.55	PPBV	98
7) PROPYLENE	3.500	41	1339768	35.21	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	3864501	29.06	PPBV	99
9) FREON 114	3.733	85	4558389	35.25	PPBV	98
10) CHLOROMETHANE	3.665	52	502015	31.88	PPBV	97
11) VINYL CHLORIDE	3.818	62	1652876	33.07	PPBV	99
12) 1,3-BUTADIENE	3.910	54	986783	29.91	PPBV	99
13) n-BUTANE	3.947	43	1549667	26.23	PPBV	99
14) BROMOMETHANE	4.106	94	1791748	36.10	PPBV	100
15) CHLOROETHANE	4.228	64	730406	32.03	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	3504203	30.34	PPBV	99
17) ACETONITRILE	4.479	41	862154	25.50	PPBV	99
18) ACROLEIN	4.571	56	516183	28.89	PPBV	95
19) FREON 123	4.589	83	3786151m	32.62	PPBV	
20) FREON 123A	4.632	117	2385952	33.24	PPBV	94
21) TRICHLOROFLUOROMETHANE	4.791	101	4286330	26.66	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	3091991	27.22	PPBV	99
23) ACETONE	4.669	58	611815	29.72	PPBV	97
24) PENTANE	5.072	42	1748442	28.85	PPBV	97
25) IODOMETHANE	5.256	142	6000517	39.54	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	1913922	35.49	PPBV	96
27) CARBON DISULFIDE	5.672	76	5159120	36.29	PPBV	98
28) ETHANOL	4.320	45	528233	23.67	PPBV	99
29) BROMOETHENE	4.479	106	1797717	37.63	PPBV	100
30) ACRYLONITRILE	5.042	52	1271597	36.54	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	1660696	34.35	PPBV	97
32) 3-CHLOROPROPENE	5.525	76	861126	38.85	PPBV	93
33) FREON 113	5.641	151	3469148	36.66	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2022318	36.73	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.372	59	3394797	29.74	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	5102873	37.67	PPBV	99
37) TETRAHYDROFURAN	7.844	72	801341	44.15	PPBV	98
38) HEXANE	7.385	57	2879156	37.98	PPBV	93
39) VINYL ACETATE	6.571	86	363965	40.72	PPBV #	86
40) 1,1-DICHLOROETHANE	6.424	63	3644940	36.44	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	879599	46.66	PPBV	90
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2133694	37.52	PPBV	98
43) DIISOPROPYL ETHER	7.391	59	905463	43.95	PPBV #	83
44) ETHYL ACETATE	7.415	61	671399m	43.14	PPBV	
45) METHYL ACRYLATE	7.409	55	3595052	40.28	PPBV	97
46) CHLOROFORM	7.483	83	4216969	36.42	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	3428957	38.76	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	4473116	35.48	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	4942966	35.62	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	3028960	37.08	PPBV		99
52)	BENZENE	8.859	78	5773385	44.75	PPBV		100
53)	CYCLOHEXANE	9.110	84	2282258	44.64	PPBV		98
54)	2,3-DIMETHYLPENTANE	9.355	71	1205121	46.80	PPBV		95
55)	TRICHLOROETHYLENE	9.893	95	2886125	41.87	PPBV		99
56)	1,2-DICHLOROPROPANE	9.654	63	2329113	42.47	PPBV		99
57)	DIBROMOMETHANE	9.636	174	3208165	42.48	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	4517787	46.25	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	4951368	40.63	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	8459039	38.93	PPBV		97
61)	1,4-DIOXANE	9.893	88	1215269	45.35	PPBV	#	1
62)	HEPTANE	10.187	43	2988992	37.77	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	1989625	49.92	PPBV		98
64)	METHYL ISOBUTYL KETONE	10.786	58	1921879	47.23	PPBV		92
65)	cis-1,3-DICHLOROPROPENE	10.756	75	4023307	47.39	PPBV		92
66)	TOLUENE	11.722	92	4414753	47.83	PPBV		97
67)	1,3-DICHLOROPROPANE	11.759	76	3397591m	44.02	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	3536223	45.59	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.453	83	2422259	47.73	PPBV		100
71)	2-HEXANONE	12.004	58	2753205	43.59	PPBV		91
72)	ETHYL METHACRYLATE	12.028	69	3484828	43.20	PPBV		92
73)	TETRACHLOROETHYLENE	12.878	164	3370251	35.84	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	5622668	35.57	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	4750806	40.93	PPBV		100
76)	OCTANE	12.750	43	4235557	32.56	PPBV		94
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	3854037	37.26	PPBV		100
78)	CHLOROBENZENE	13.588	112	6101033	35.87	PPBV		99
79)	ETHYLBENZENE	13.986	91	9323124	38.31	PPBV		96
80)	m,p-XYLENE	14.188	106	7385992	79.24	PPBV		91
81)	o-XYLENE	14.683	106	3531781	41.16	PPBV		95
82)	STYRENE	14.573	104	5945197	45.55	PPBV		99
83)	NONANE	14.940	43	4120325	31.95	PPBV		94
84)	BROMOFORM	14.255	173	6063084	37.29	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	5834633	38.41	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	4239056	33.30	PPBV		98
88)	ISOPROPYLBENZENE	15.301	105	10105051	35.54	PPBV		96
89)	BROMOBENZENE	15.381	77	5092227	34.24	PPBV		97
90)	2-CHLOROTOLUENE	15.772	126	2919479	38.46	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	2929586	38.73	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	9932010	38.91	PPBV		95
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	8308295	35.08	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.200	118	4732251	41.57	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1826681	37.13	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	7744703	33.90	PPBV		97
97)	m-DICHLOROBENZENE	16.586	146	6361294	34.54	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	7942485	38.06	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	6796416	35.68	PPBV		98
100)	sec-BUTYLBENZENE	16.702	134	2382473	37.89	PPBV	#	76
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	7842082	32.09	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	2537472	35.07	PPBV	#	85
103)	o-DICHLOROBENZENE	16.983	146	6444852	34.67	PPBV		98
104)	n-BUTYLBENZENE	17.265	134	2846318	43.05	PPBV	#	78
105)	HEXACHLOROETHANE	17.614	117	4455103	36.00	PPBV		97
106)	HEXACHLOROBUTADIENE	18.972	225	5455879	28.29	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.886	180	6383531	48.55	PPBV		99
108)	NAPHTHALENE	18.666	128	12695949	41.10	PPBV		93
110)	TVHC as equiv Pentane	5.072	TIC	11631459	33.13	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

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

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

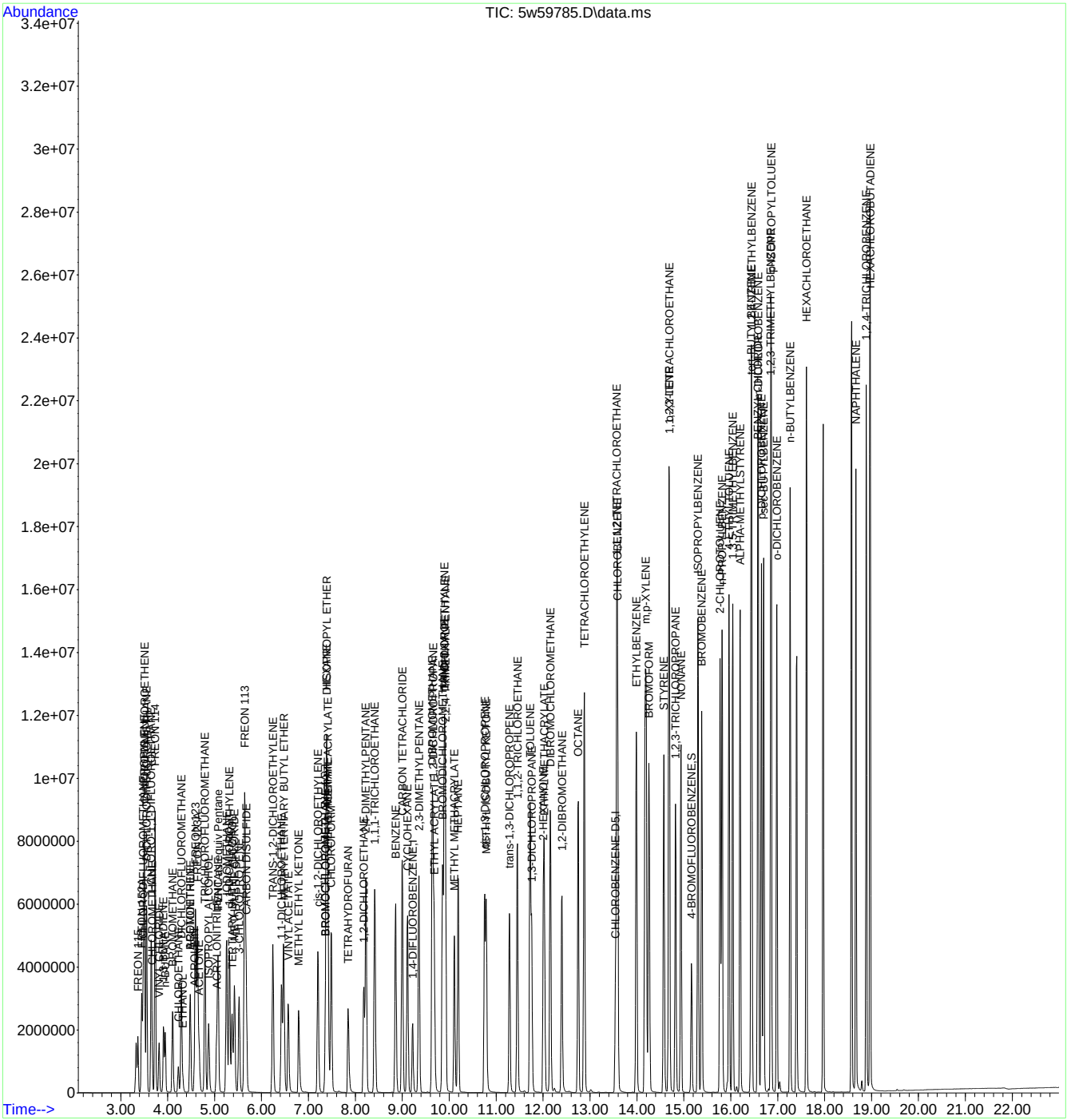
7.7.8

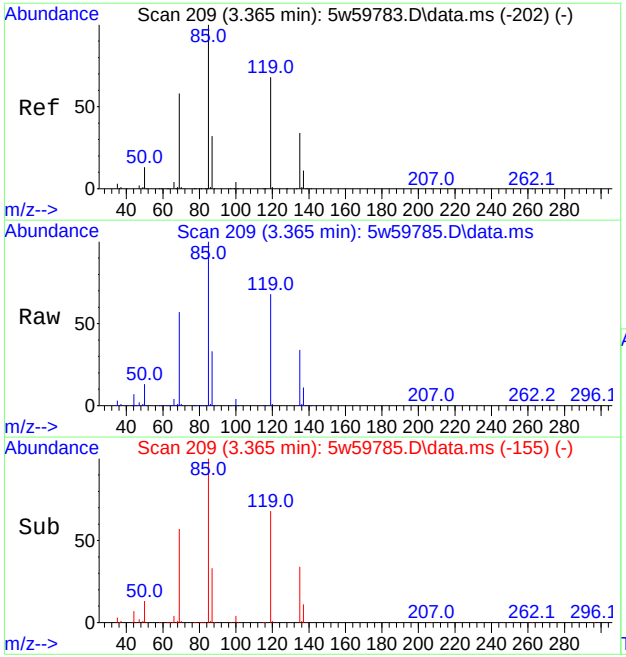
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

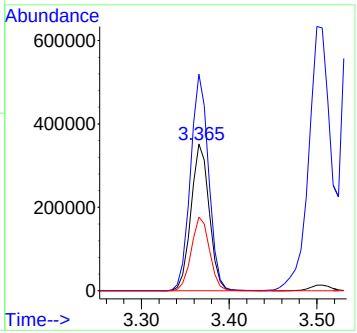


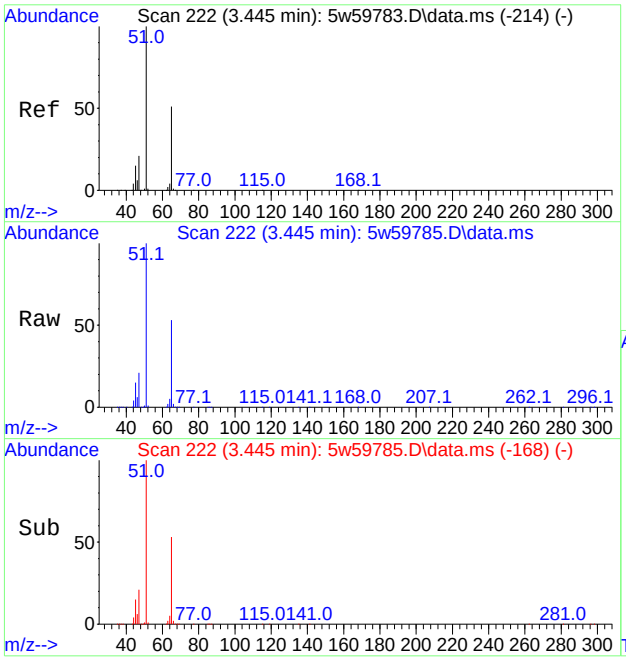


#2
FREON 115
Concen: 9.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:119 Resp: 510693

Ion	Ratio	Lower	Upper
119	100		
85	146.8	116.2	176.2
135	50.3	20.6	80.6

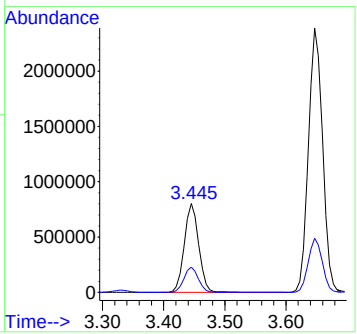


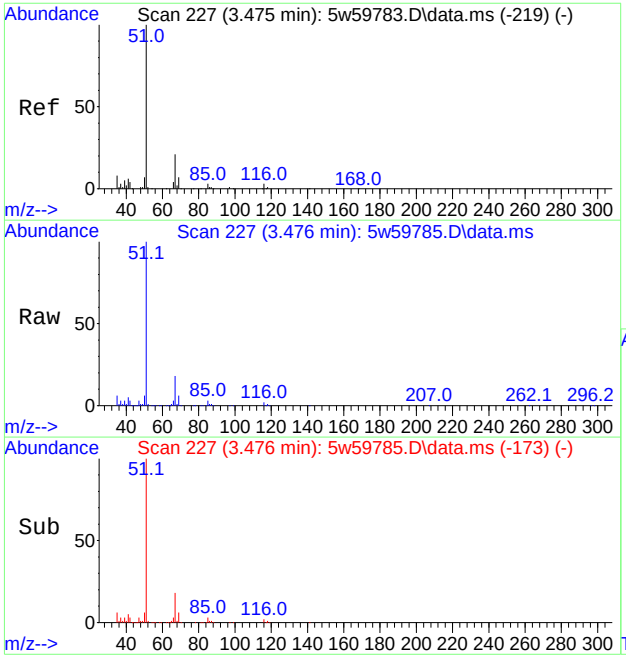


#3
FREON 152A
Concen: 37.53 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 1313214

Ion	Ratio	Lower	Upper
65	100		
45	28.4	0.0	60.0

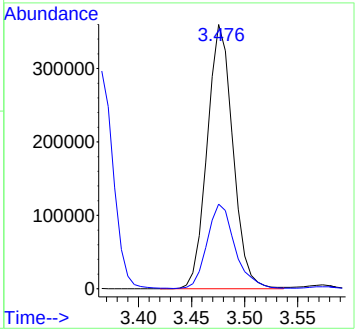


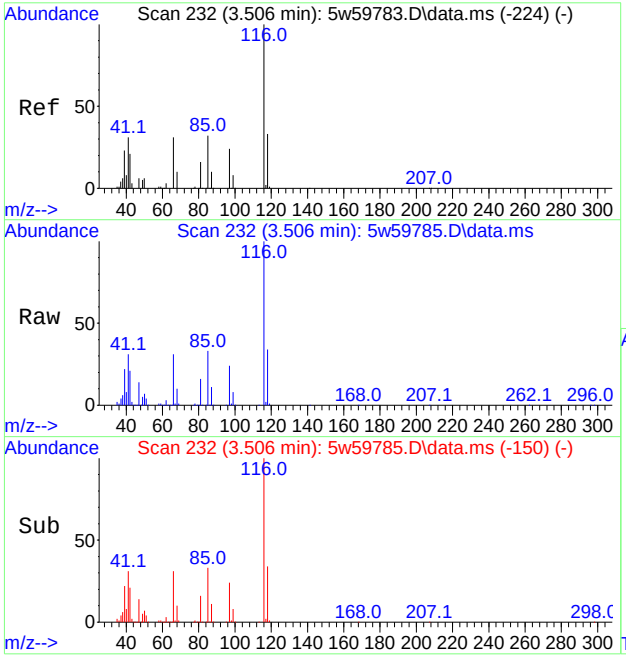


#4
CHLORODIFLUOROMETHANE
Concen: 38.04 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 606229

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

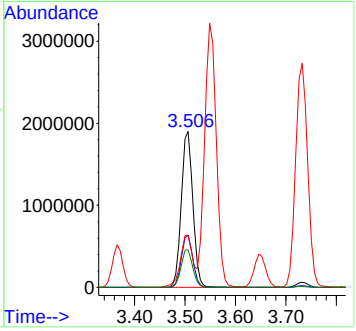


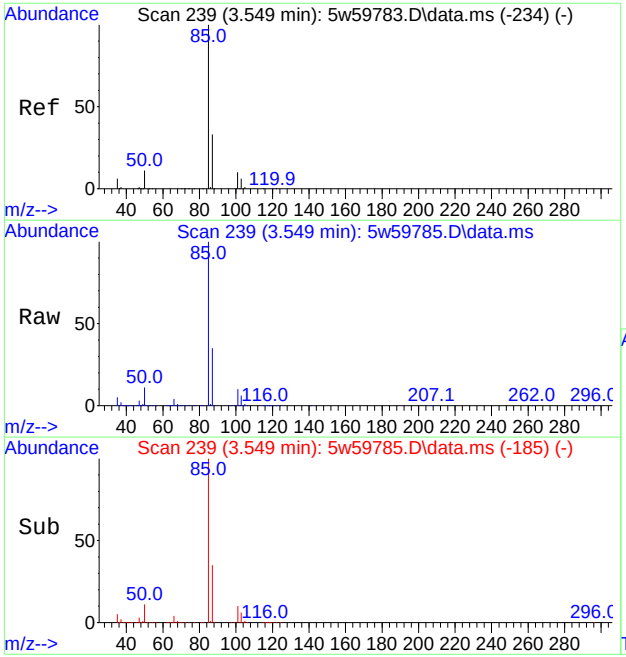


#5
CHLOROTRIFLUOROETHENE
Concen: 39.97 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:116 Resp: 3030922

Ion	Ratio	Lower	Upper
116	100		
118	33.3	22.9	42.5
85	37.1	23.7	44.1
97	24.2	17.0	31.6

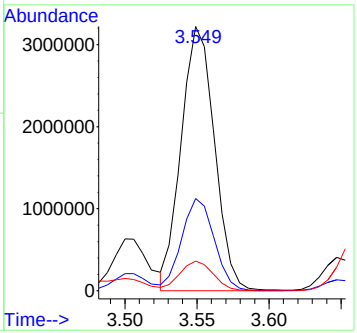


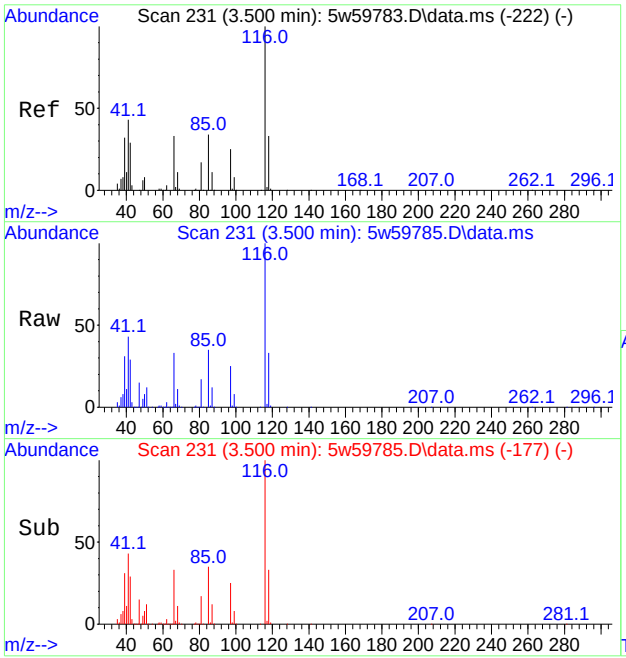


#6
DICHLORODIFLUOROMETHANE
Concen: 34.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 5182161

Ion	Ratio	Lower	Upper
85	100		
87	34.2	2.5	62.5
50	11.3	0.0	41.7

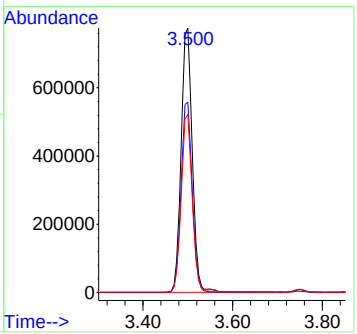


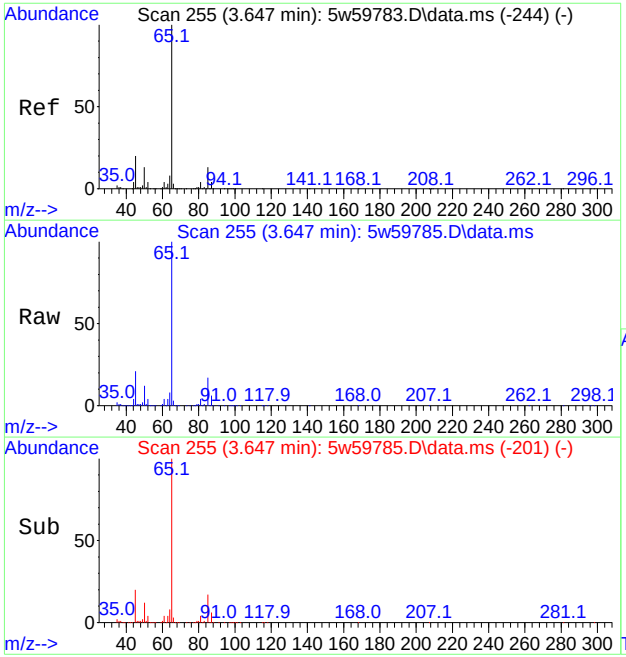


#7
PROPYLENE
Concen: 35.21 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 1339768

Ion	Ratio	Lower	Upper
41	100		
39	72.3	45.1	105.1
42	67.0	36.3	96.3

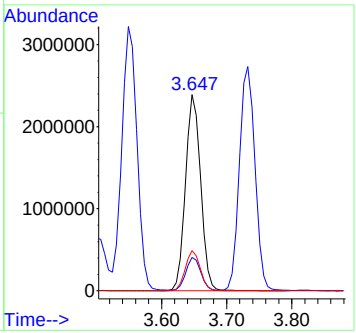


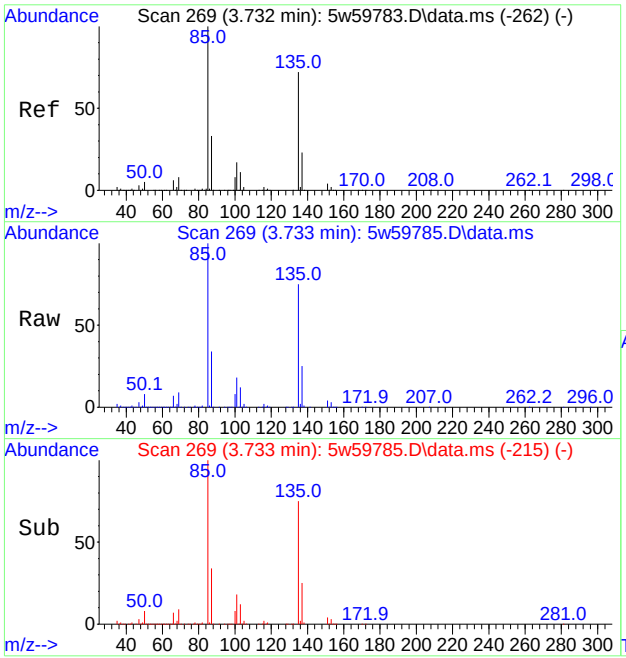


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 29.06 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 3864501

Ion	Ratio	Lower	Upper
65	100		
85	16.9	11.5	21.3
45	20.4	14.0	26.0

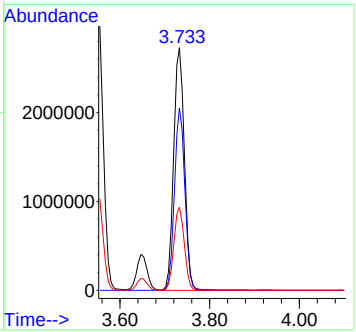


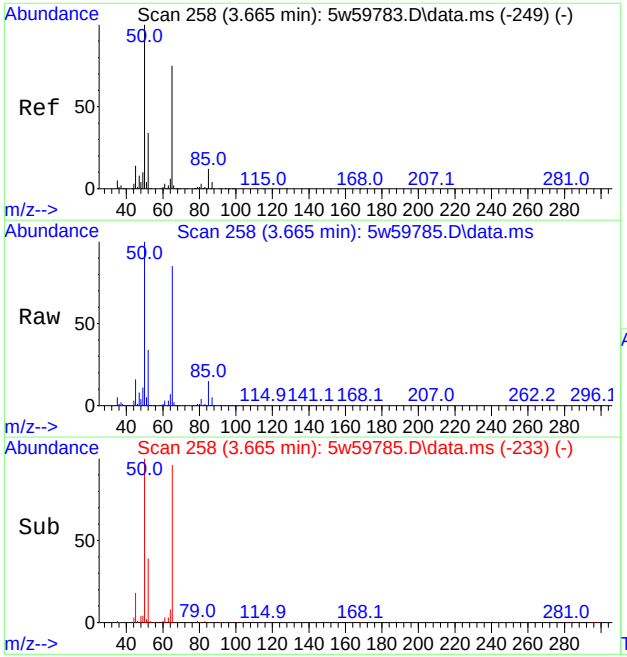


#9
FREON 114
Concen: 35.25 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 4558389

Ion	Ratio	Lower	Upper
85	100		
135	73.1	40.5	100.5
87	33.6	3.0	63.0

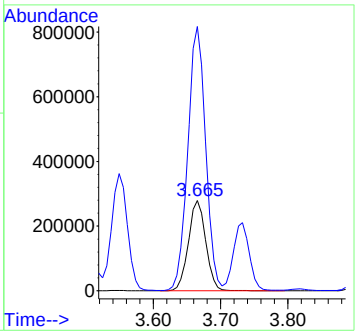


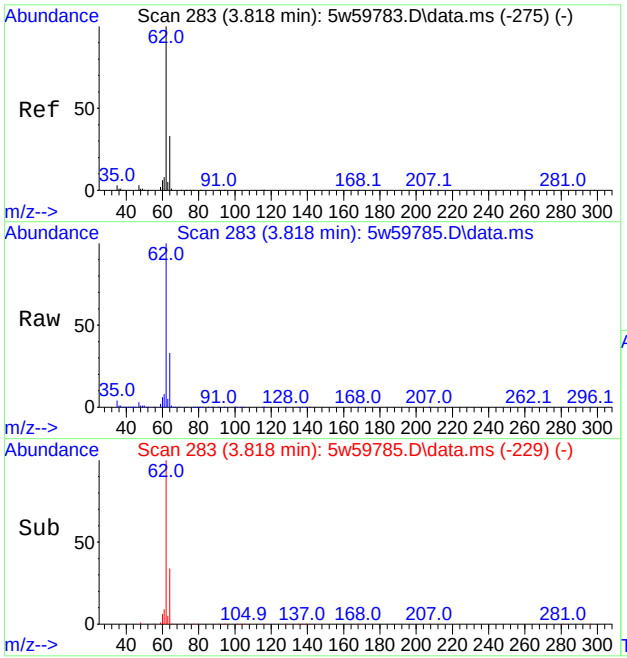


#10
CHLOROMETHANE
Concen: 31.88 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 502015

Ion	Ratio	Lower	Upper
52	100		
50	292.3	267.9	327.9

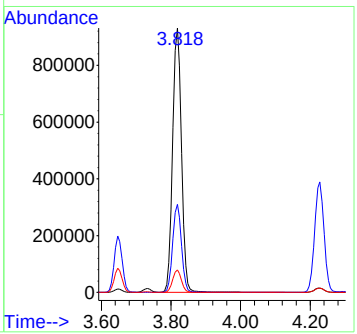


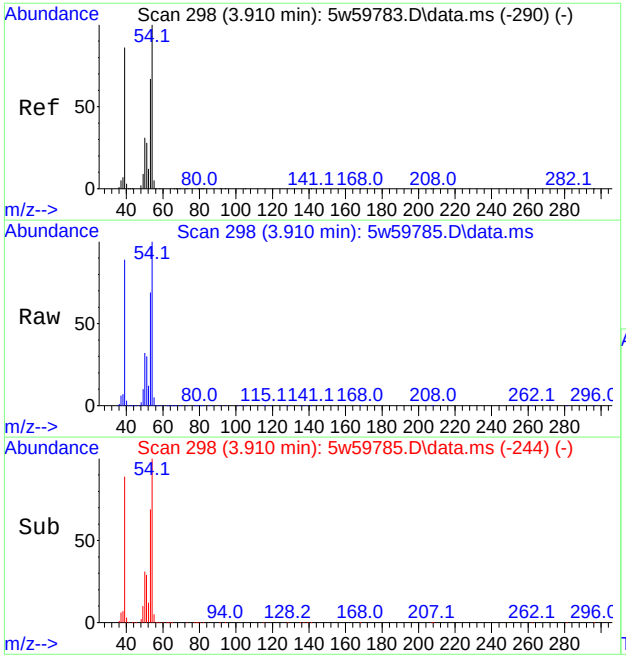


#11
VINYL CHLORIDE
Concen: 33.07 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 1652876

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

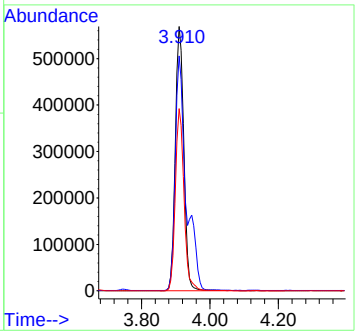


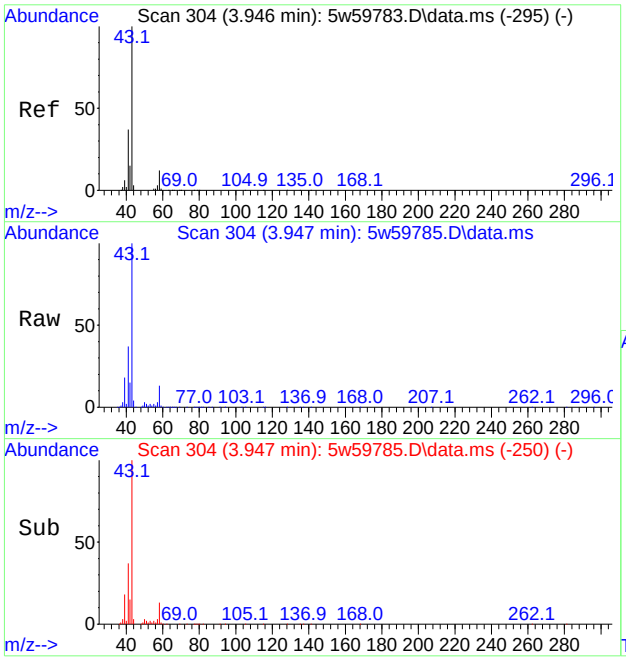


#12
1,3-BUTADIENE
Concen: 29.91 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 54 Resp: 986783

Ion	Ratio	Lower	Upper
54	100		
39	113.9	82.0	142.0
53	70.3	40.2	100.2

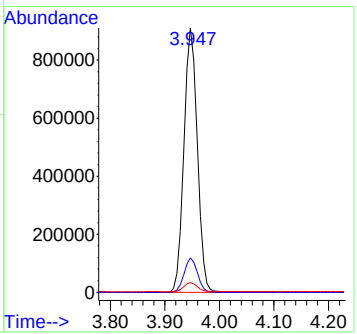


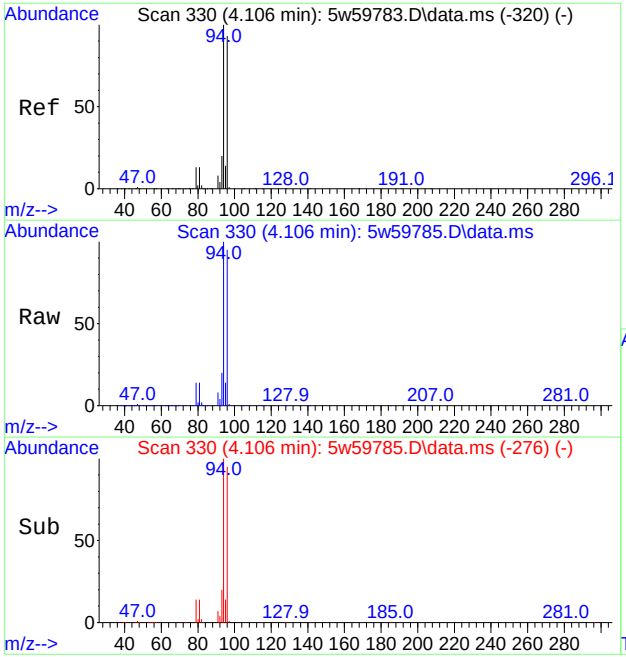


#13
n-BUTANE
Concen: 26.23 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 1549667

Ion	Ratio	Lower	Upper
43	100		
58	12.9	0.0	42.6
44	4.1	0.0	34.9

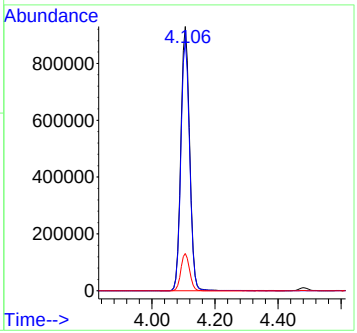


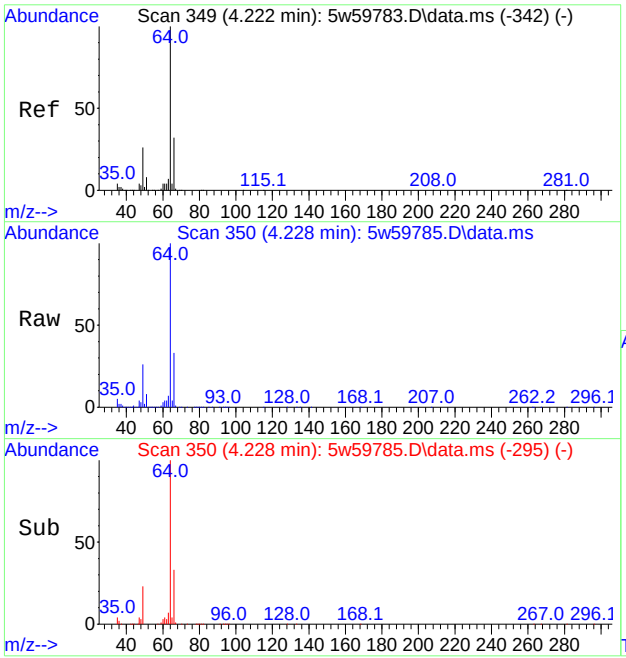


#14
BROMOMETHANE
Concen: 36.10 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 94 Resp: 1791748

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.1	0.0	44.1

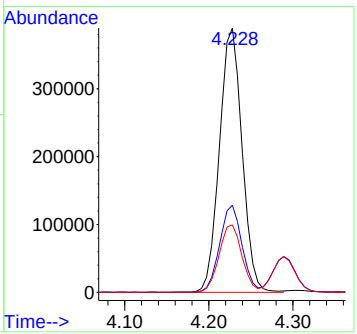


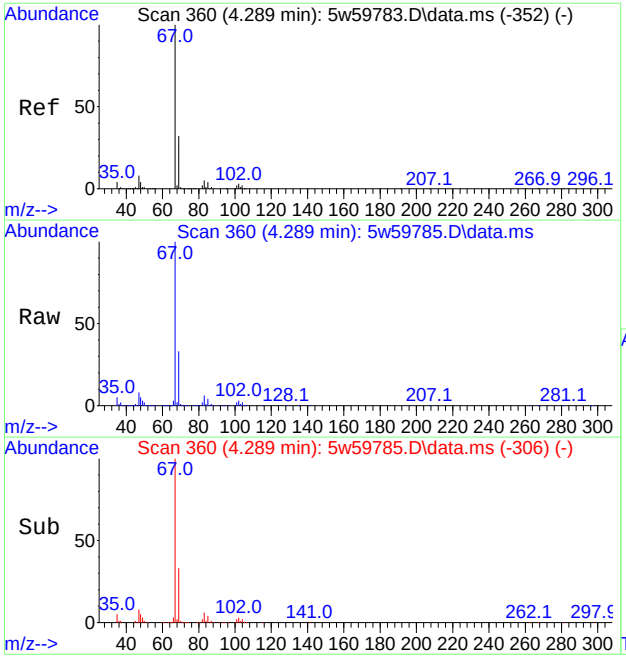


#15
CHLOROETHANE
Concen: 32.03 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 64 Resp: 730406

Ion	Ratio	Lower	Upper
64	100		
66	32.5	3.1	63.1
49	25.7	0.0	55.3

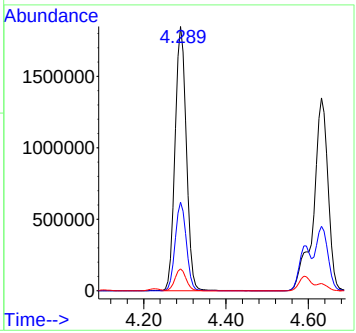


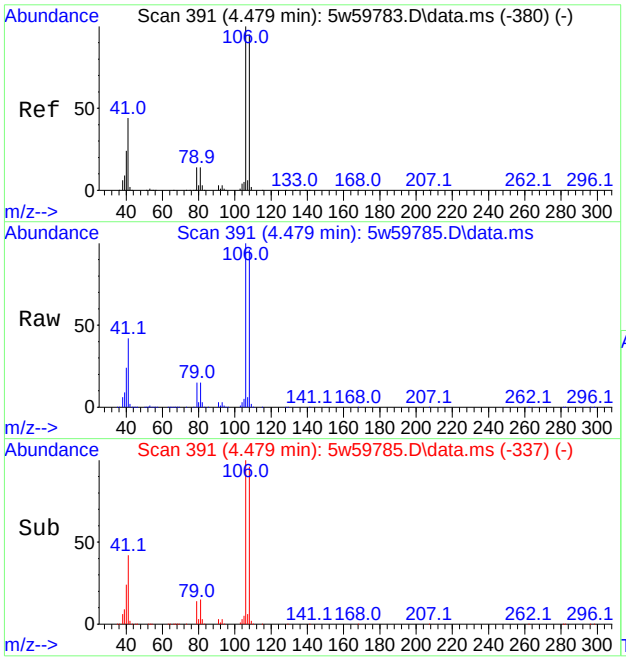


#16
DICHLOROFLUOROMETHANE
Concen: 30.34 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 3504203

Ion	Ratio	Lower	Upper
67	100		
69	33.3	22.7	42.3
47	8.3	5.6	10.4

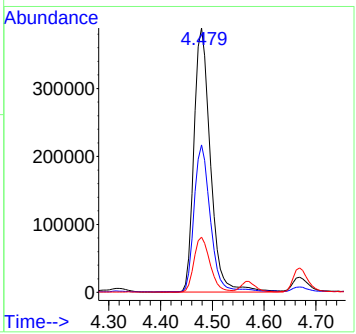


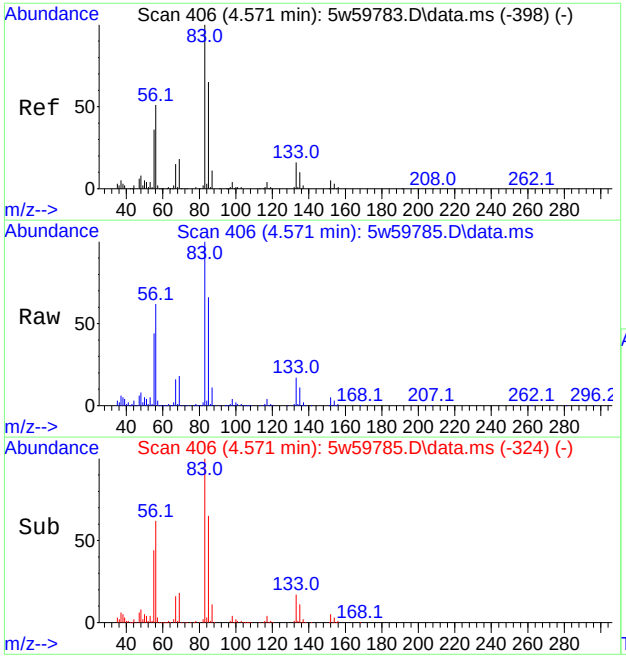


#17
ACETONITRILE
Concen: 25.50 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 862154

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

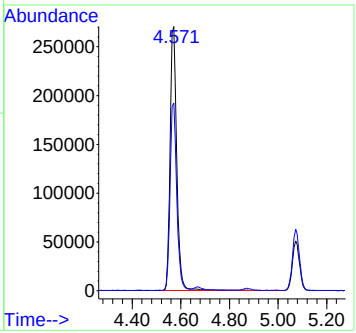


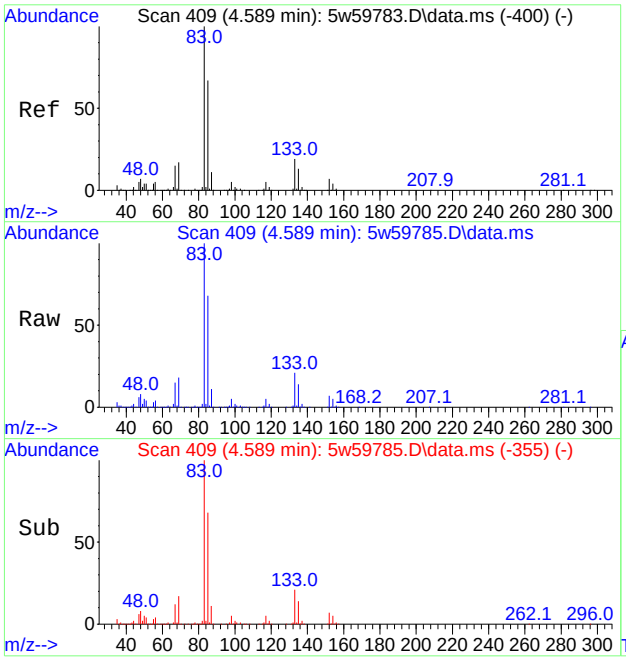


#18
ACROLEIN
Concen: 28.89 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 56 Resp: 516183

Ion	Ratio	Lower	Upper
56	100		
55	70.8	46.6	86.6

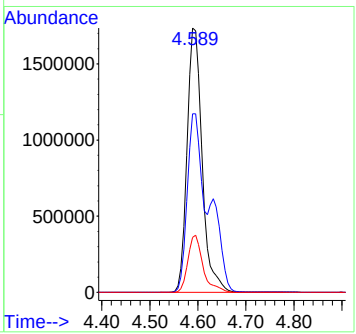


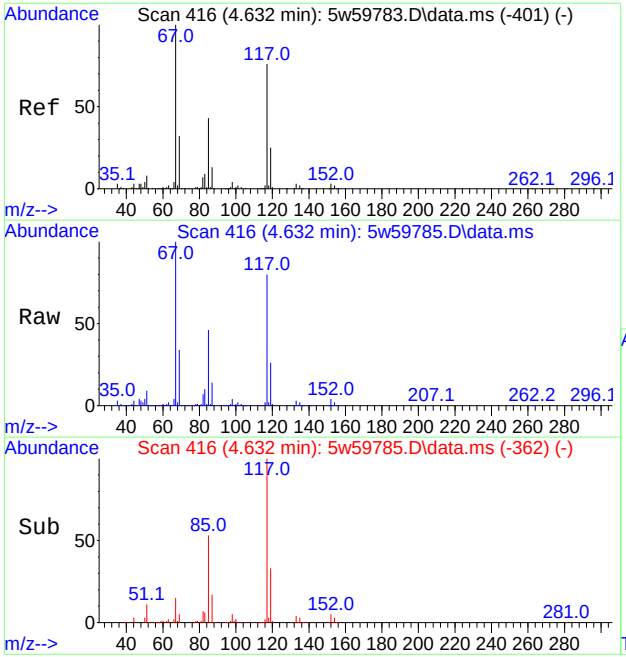


#19
FREON 123
Concen: 32.62 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 3786151

Ion	Ratio	Lower	Upper
83	100		
85	63.6	34.0	94.0
133	21.9	0.0	50.7

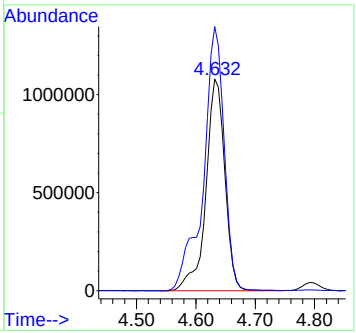


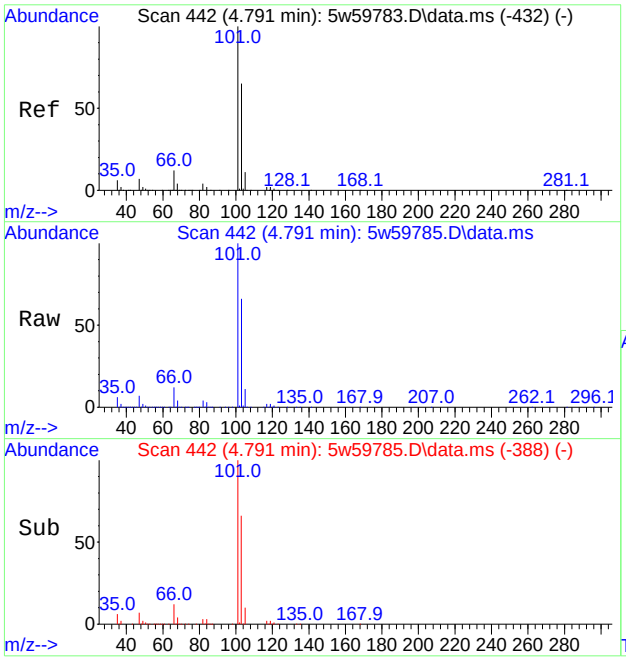


#20
FREON 123A
Concen: 33.24 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 2385952

Ion	Ratio	Lower	Upper
117	100		
67	137.4	114.6	174.6

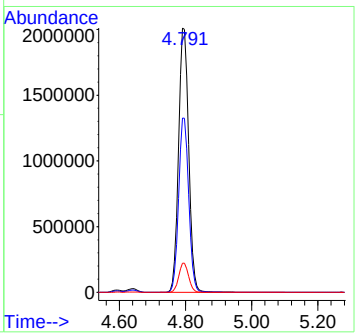


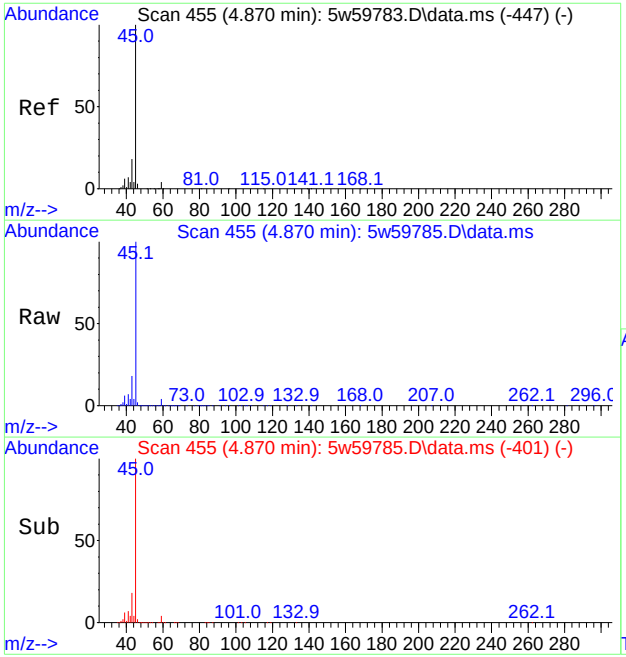


#21
TRICHLOROFLUOROMETHANE
Concen: 26.66 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:101 Resp: 4286330

Ion	Ratio	Lower	Upper
101	100		
103	65.8	35.0	95.0
105	10.9	0.0	40.7

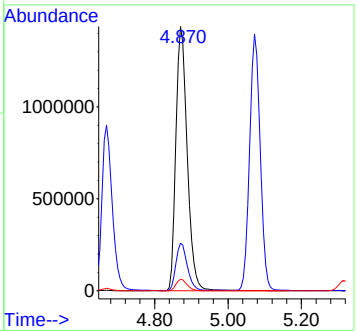


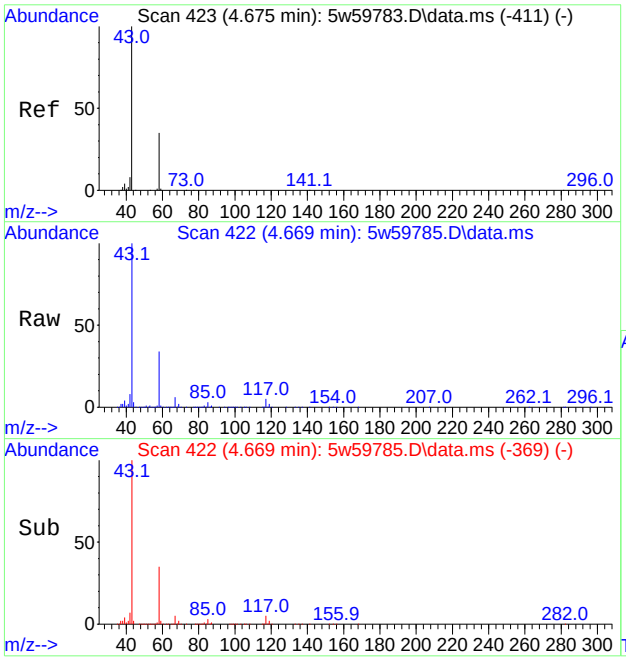


#22
ISOPROPYL ALCOHOL
Concen: 27.22 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 3091991

Ion	Ratio	Lower	Upper
45	100		
43	18.0	0.0	47.8
59	4.4	0.0	34.1

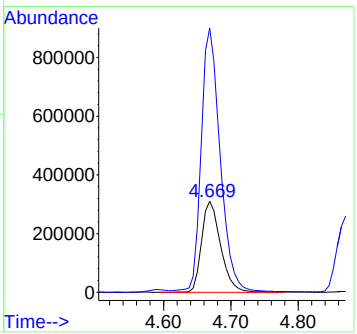


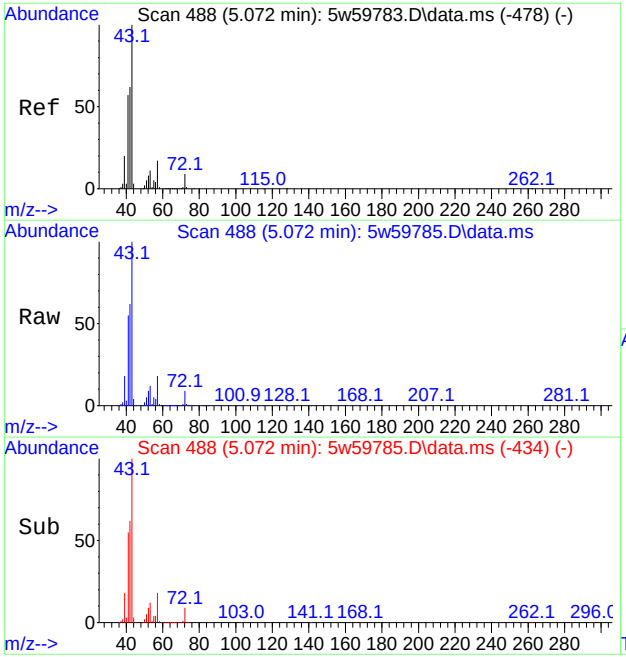


#23
ACETONE
Concen: 29.72 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 611815

Ion	Ratio	Lower	Upper
58	100		
43	288.5	252.3	312.3

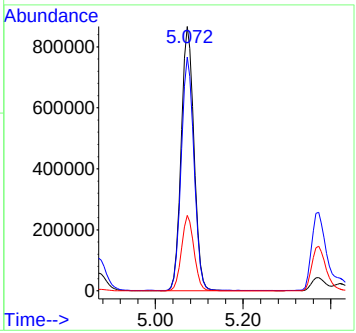


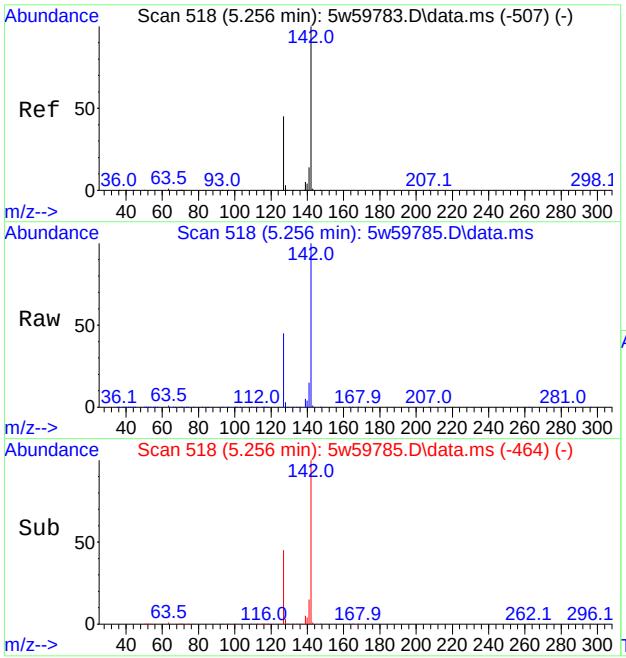


#24
PENTANE
Concen: 28.85 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 42 Resp: 1748442

Ion	Ratio	Lower	Upper
42	100		
41	89.0	62.3	122.3
57	28.1	0.0	57.7

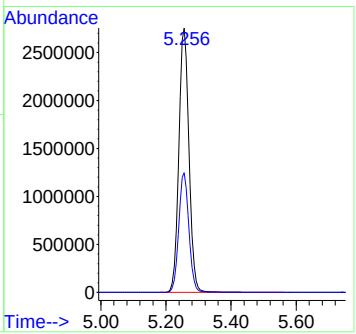


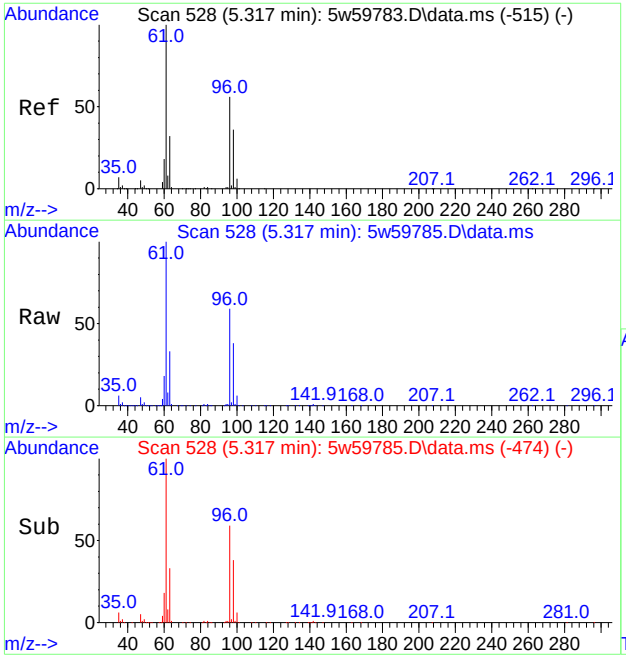


#25
IODOMETHANE
Concen: 39.54 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:142 Resp: 6000517

Ion	Ratio	Lower	Upper
142	100		
127	45.4	16.0	76.0

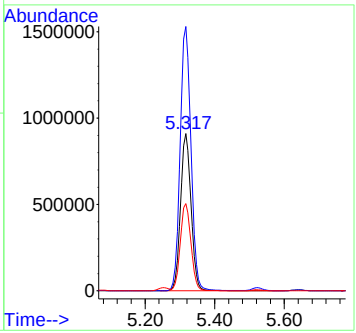


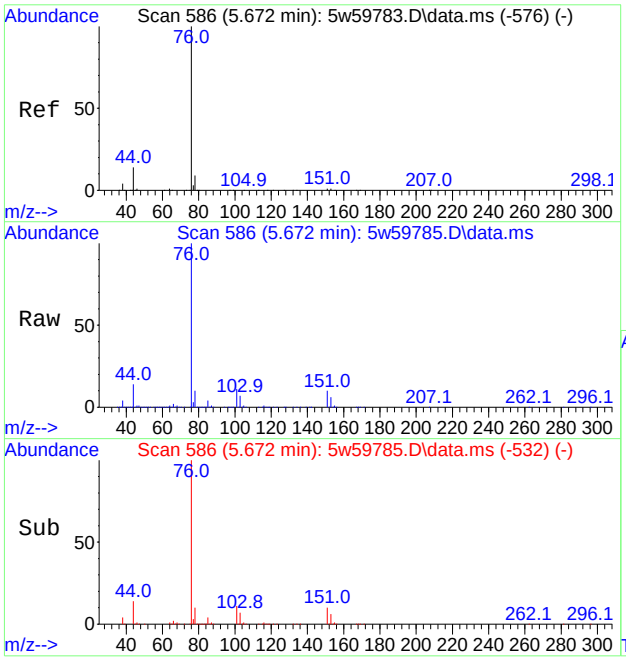


#26
1,1-DICHLOROETHYLENE
Concen: 35.49 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 1913922

Ion	Ratio	Lower	Upper
96	100		
61	172.5	148.5	208.5
63	56.3	27.4	87.4

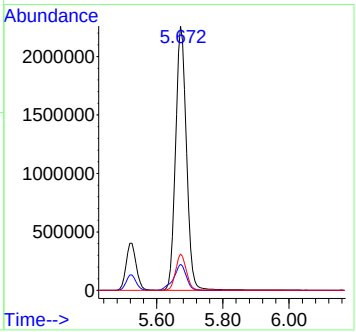


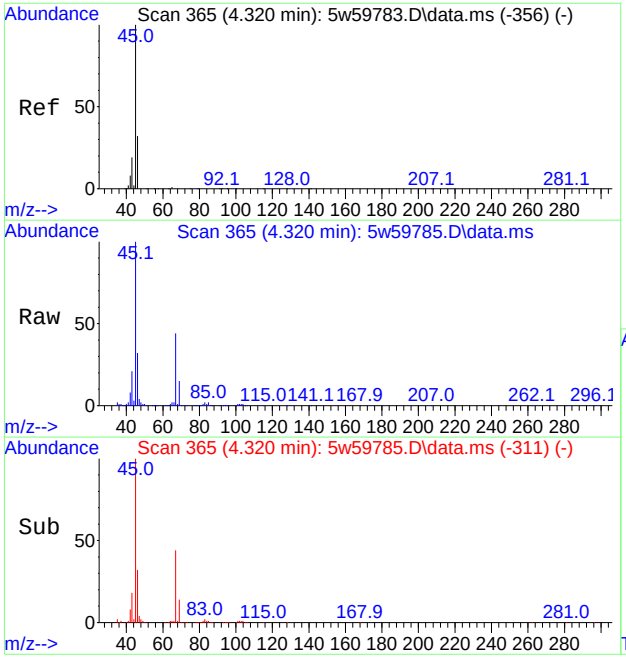


#27
CARBON DISULFIDE
Concen: 36.29 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 5159120

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.5	0.0	44.6

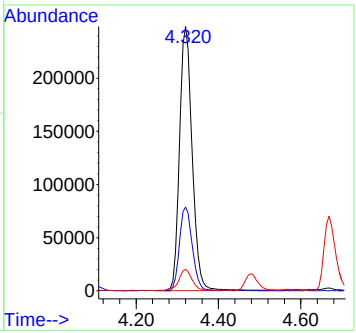


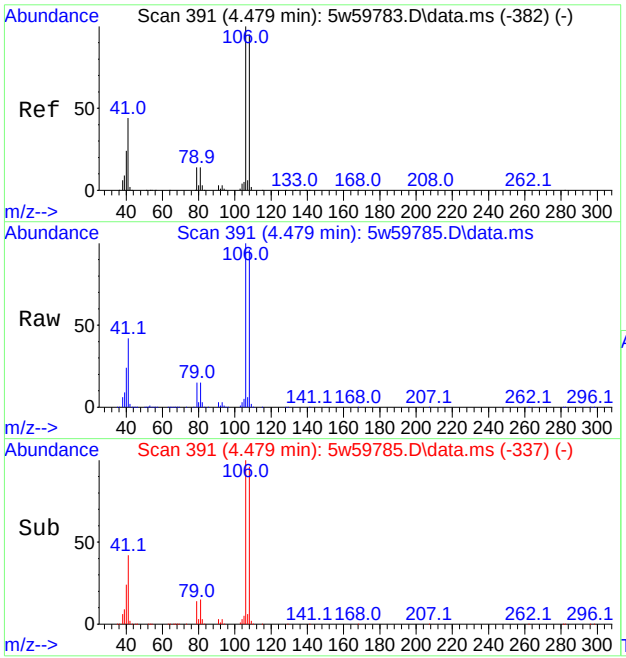


#28
ETHANOL
Concen: 23.67 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 528233

Ion	Ratio	Lower	Upper
45	100		
46	32.3	2.0	62.0
42	8.3	0.0	38.5

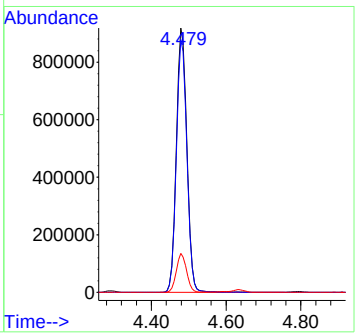


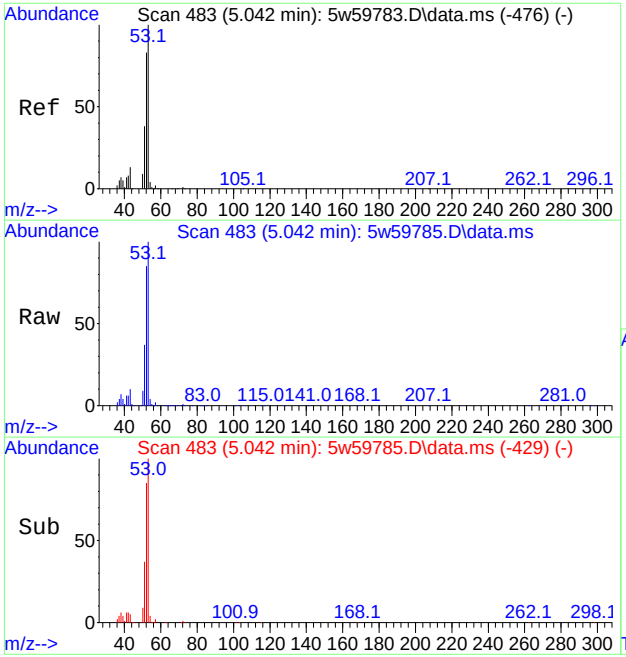


#29
BROMOETHENE
Concen: 37.63 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 1797717

Ion	Ratio	Lower	Upper
106	100		
108	95.5	65.6	125.6
81	14.2	0.0	43.9

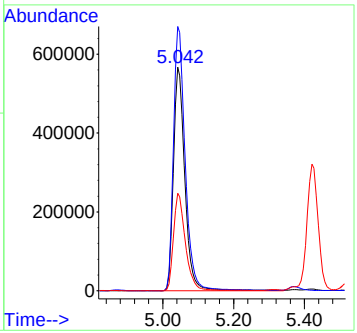


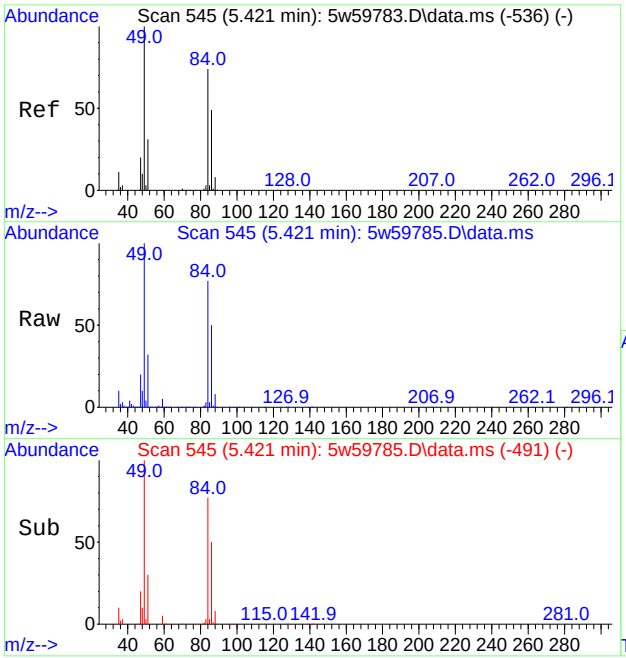


#30
ACRYLONITRILE
Concen: 36.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 1271597

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.4	32.3	60.1

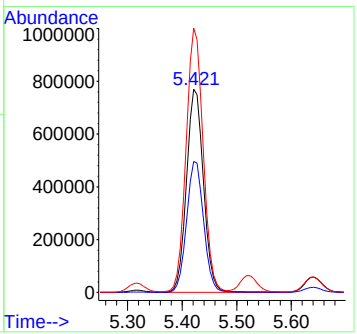


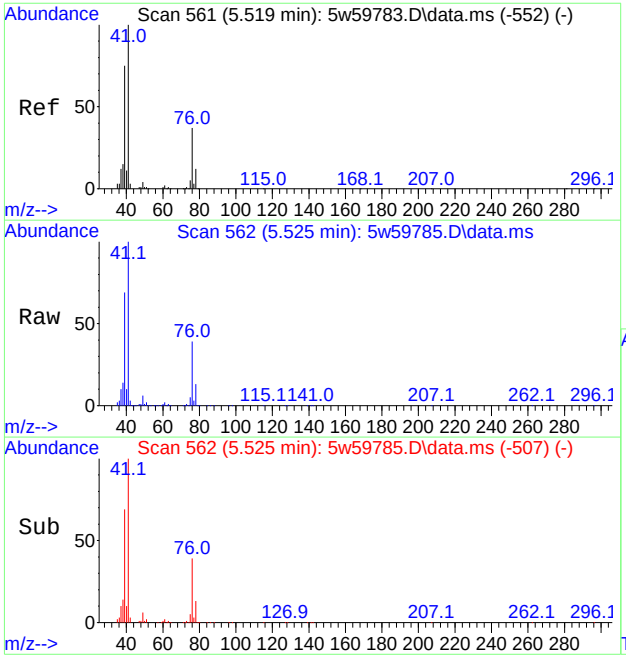


#31
METHYLENE CHLORIDE
Concen: 34.35 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 1660696

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	130.9	105.3	165.3

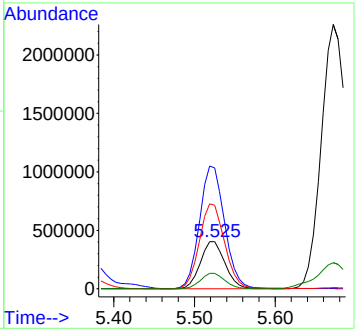


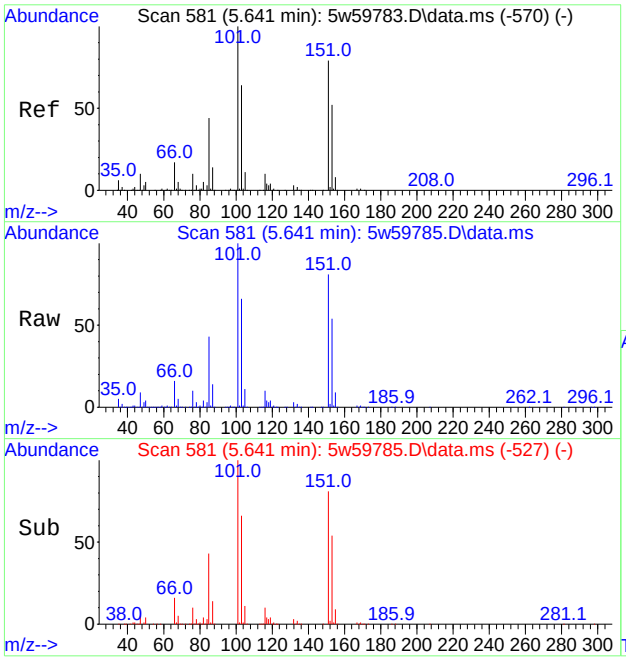


#32
3-CHLOROPROPENE
Concen: 38.85 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 861126

Ion	Ratio	Lower	Upper
76	100		
41	263.0	240.8	300.8
39	183.7	173.6	233.6
78	32.6	2.8	62.8

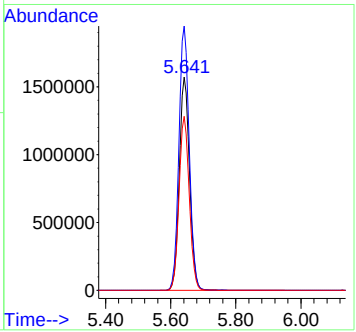


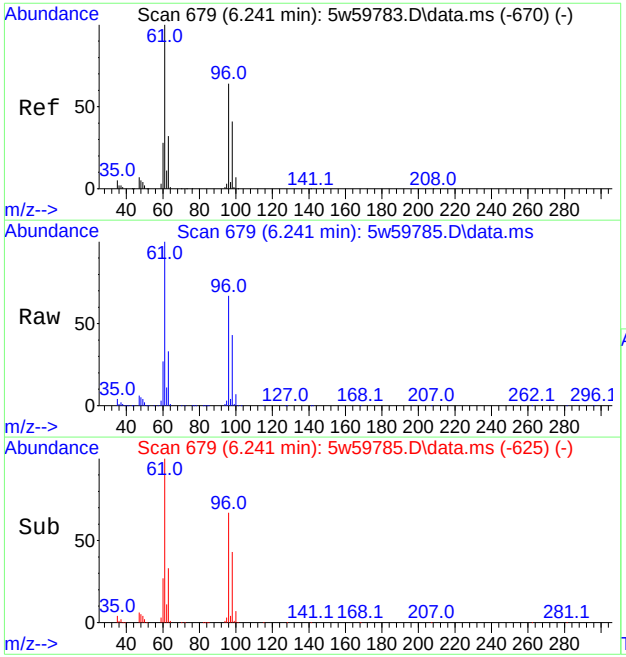


#33
FREON 113
Concen: 36.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:151 Resp: 3469148

Ion	Ratio	Lower	Upper
151	100		
101	125.0	97.5	157.5
103	81.5	52.5	112.5

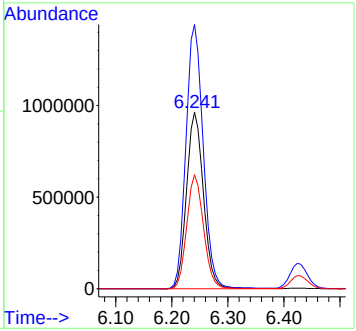


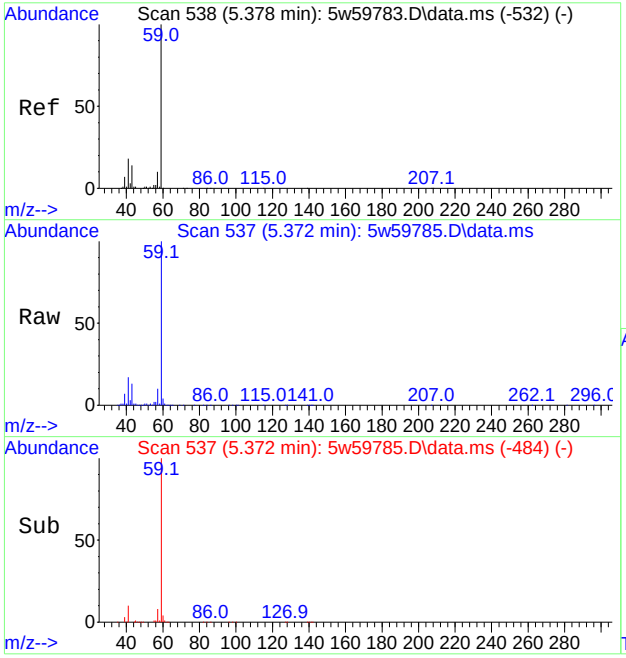


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 36.73 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2022318

Ion	Ratio	Lower	Upper
96	100		
61	152.5	126.4	186.4
98	64.2	34.1	94.1

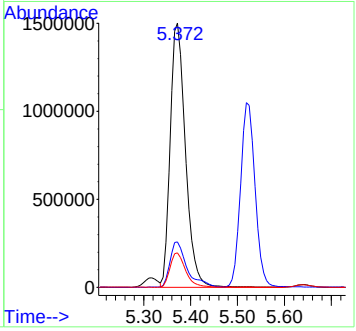


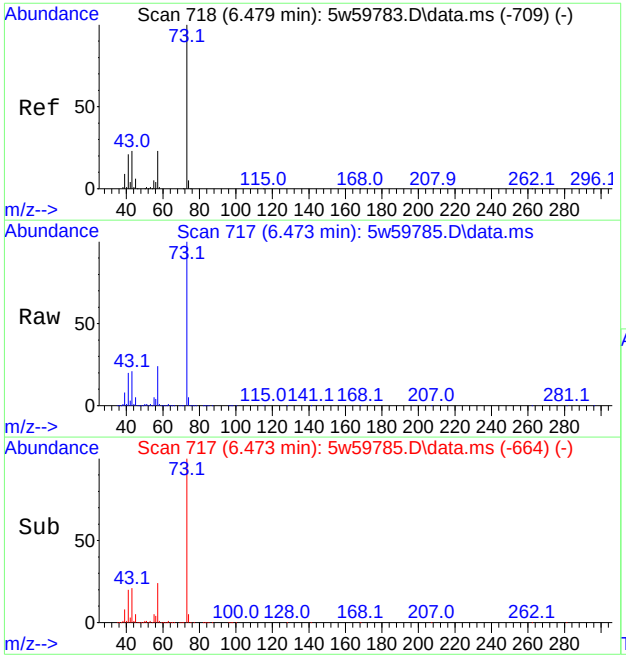


#35
TERTIARY BUTYL ALCOHOL
Concen: 29.74 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 3394797

Ion	Ratio	Lower	Upper
59	100		
41	19.2	0.0	49.3
43	13.3	0.0	44.1

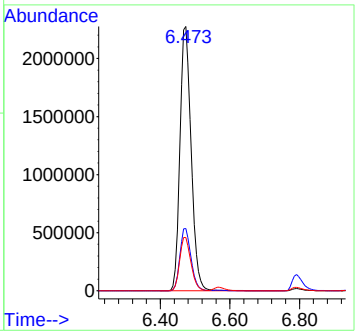


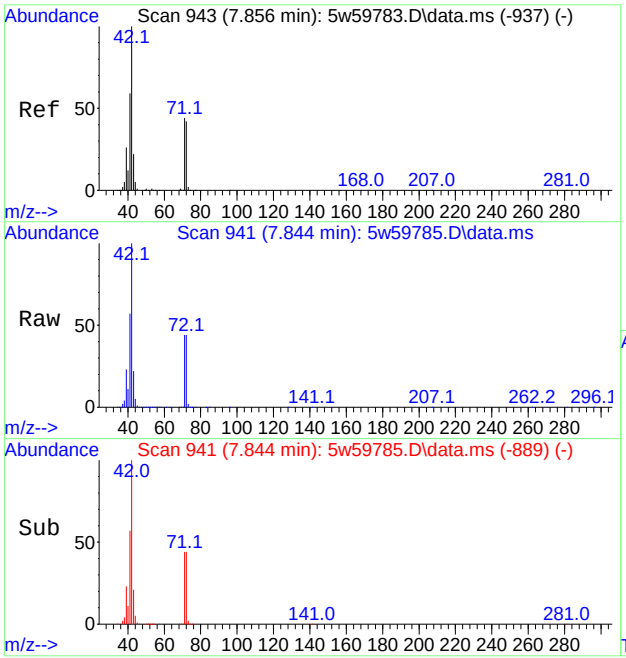


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.67 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 73 Resp: 5102873

Ion	Ratio	Lower	Upper
73	100		
57	23.4	0.0	53.1
41	20.3	0.0	50.6

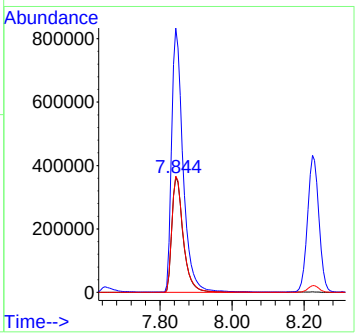


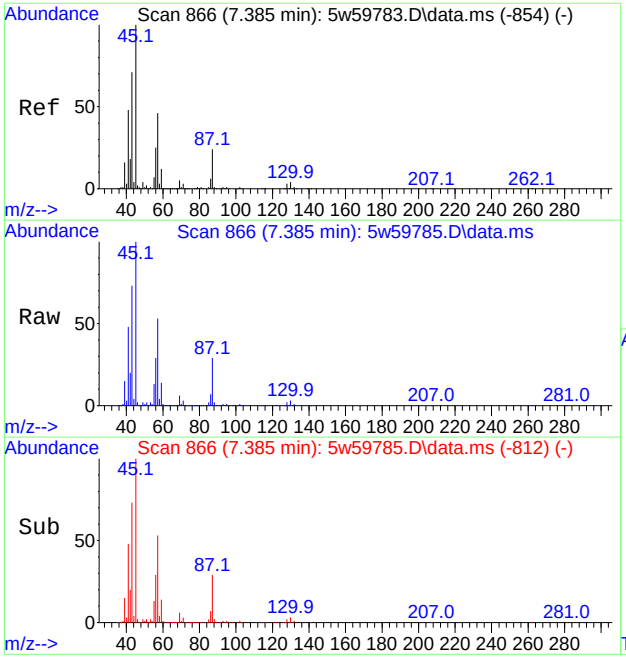


#37
TETRAHYDROFURAN
Concen: 44.15 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 801341

Ion	Ratio	Lower	Upper
72	100		
42	228.6	202.4	262.4
71	101.0	71.1	131.1

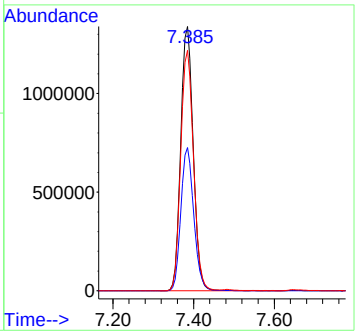


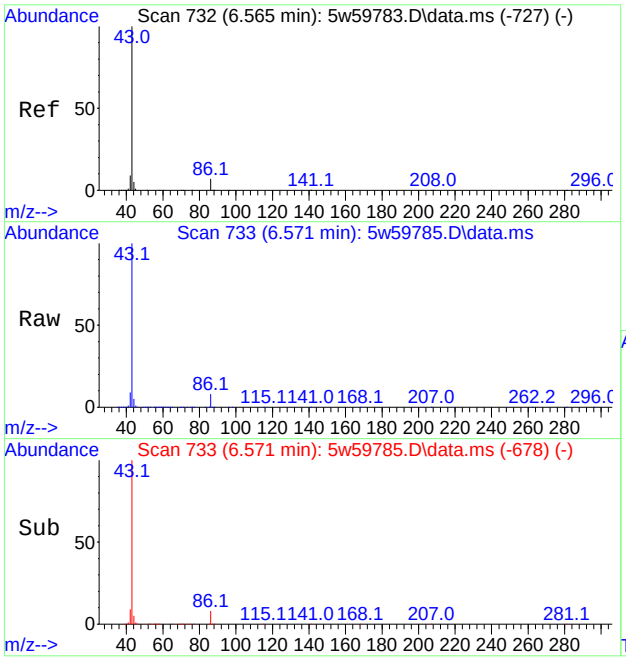


#38
HEXANE
Concen: 37.98 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 2879156

Ion	Ratio	Lower	Upper
57	100		
56	56.3	25.9	85.9
41	93.3	74.7	134.7

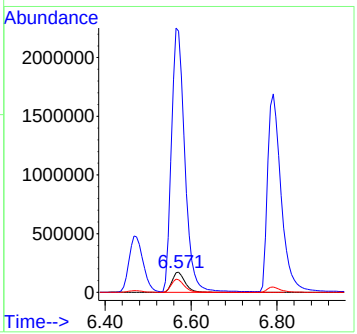


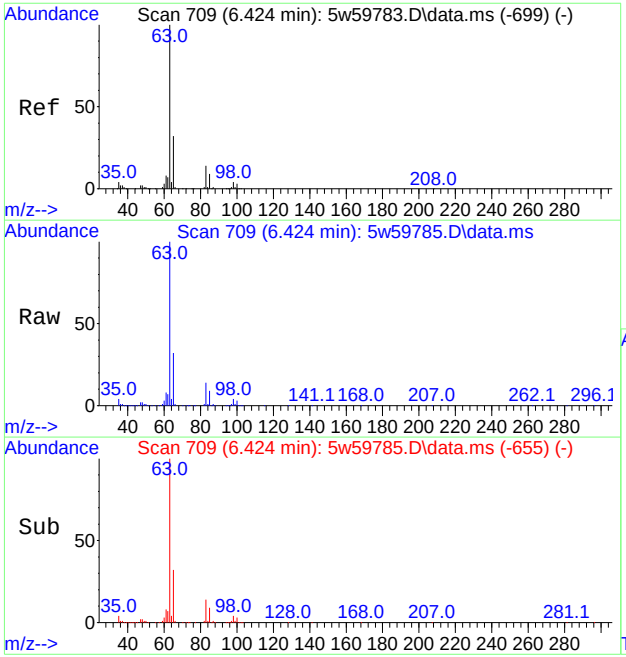


#39
VINYL ACETATE
Concen: 40.72 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 86 Resp: 363965

Ion	Ratio	Lower	Upper
86	100		
43	1327.9	1379.7	1439.7#
44	64.4	36.9	96.9

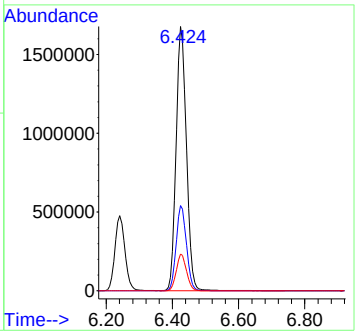


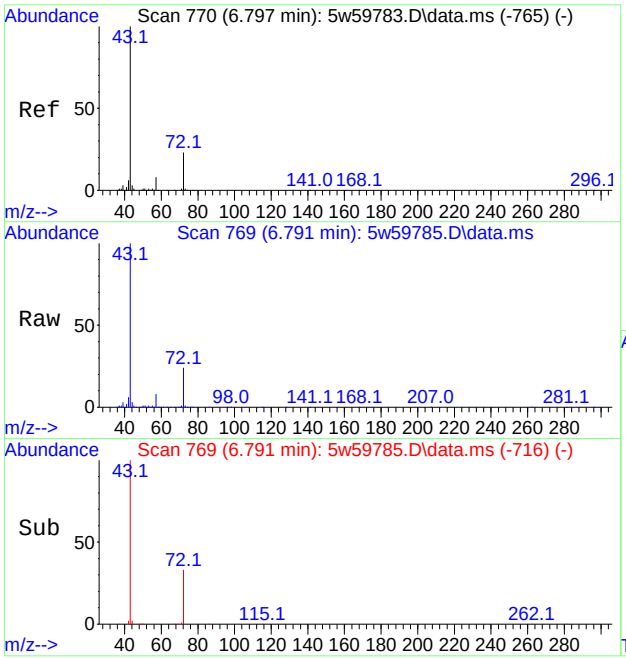


#40
1,1-DICHLOROETHANE
Concen: 36.44 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 3644940

Ion	Ratio	Lower	Upper
63	100		
65	32.2	1.7	61.7
83	13.7	0.0	43.5

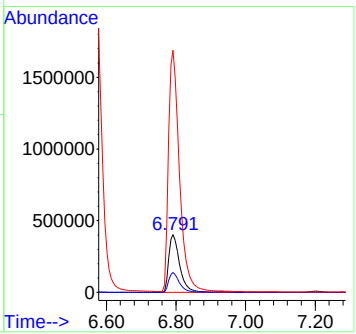


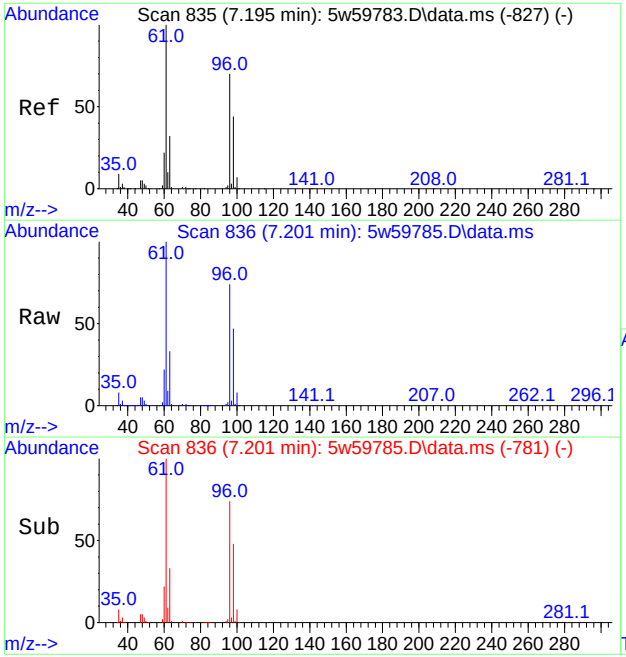


#41
METHYL ETHYL KETONE
Concen: 46.66 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 879599

Ion	Ratio	Lower	Upper
72	100		
57	34.6	4.8	64.8
43	418.8	415.9	475.9

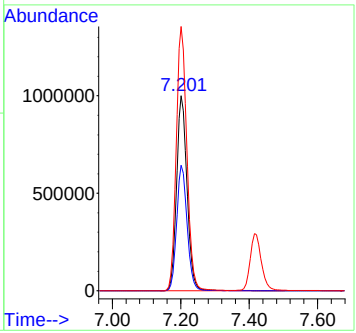


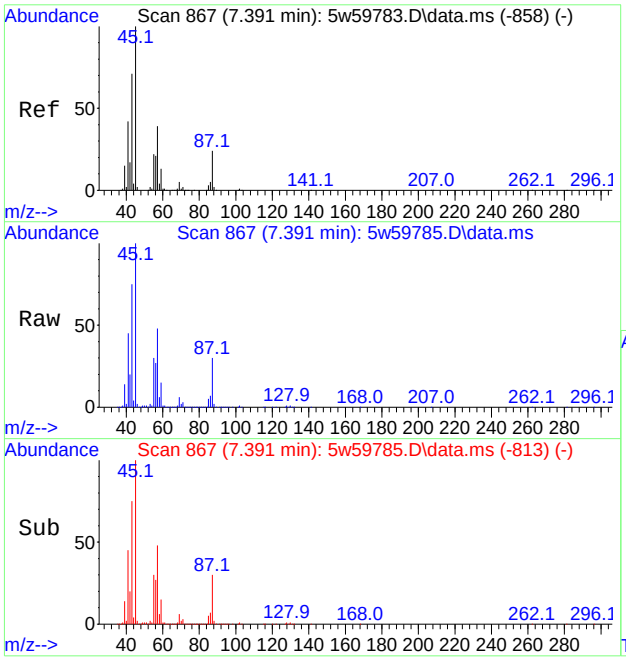


#42
cis-1,2-DICHLOROETHYLENE
Concen: 37.52 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2133694

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	137.7	111.5	171.5

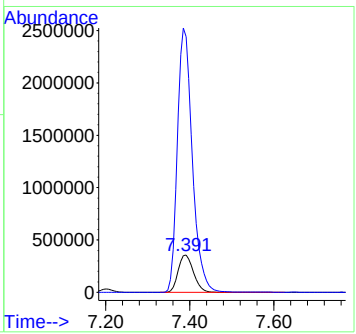


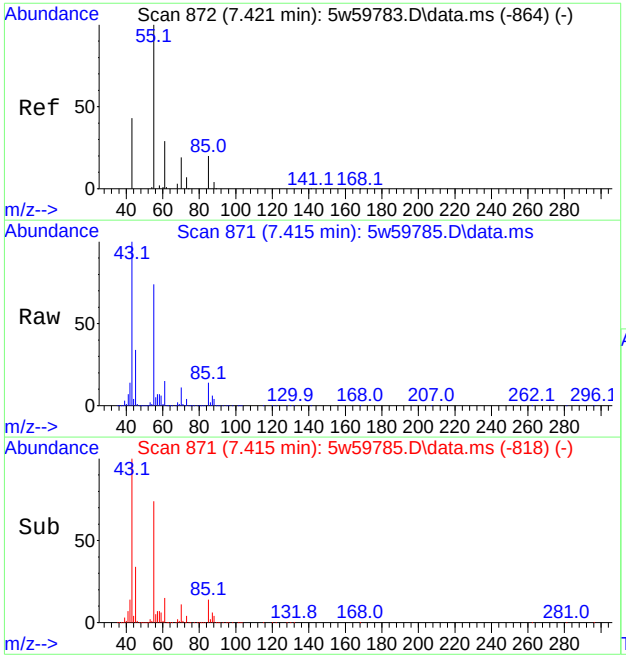


#43
DIISOPROPYL ETHER
Concen: 43.95 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 905463

Ion	Ratio	Lower	Upper
59	100		
45	688.0	720.9	780.9#

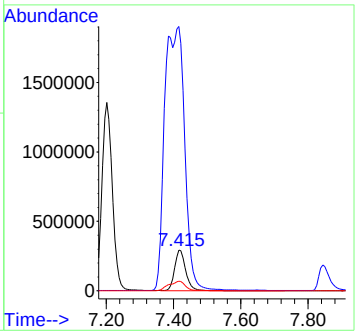


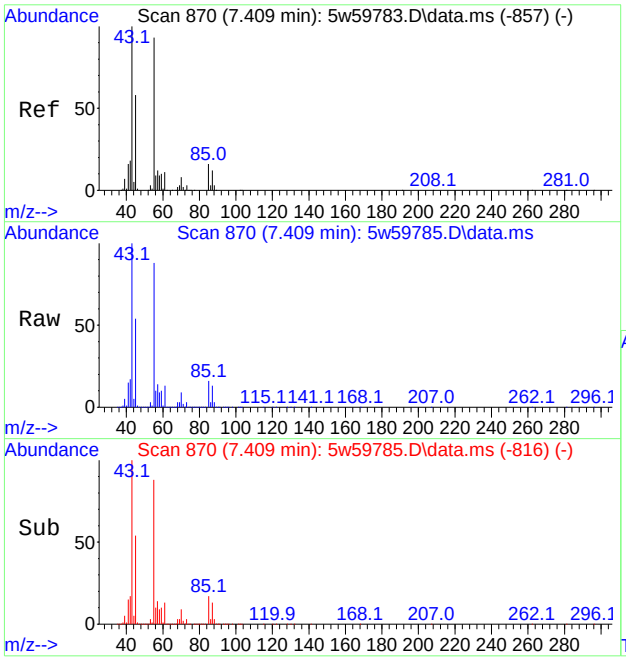


#44
ETHYL ACETATE
Concen: 43.14 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 61 Resp: 671399

Ion	Ratio	Lower	Upper
61	100		
43	592.5	560.5	620.5
88	35.9	4.5	64.5

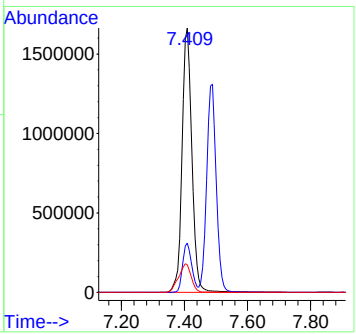


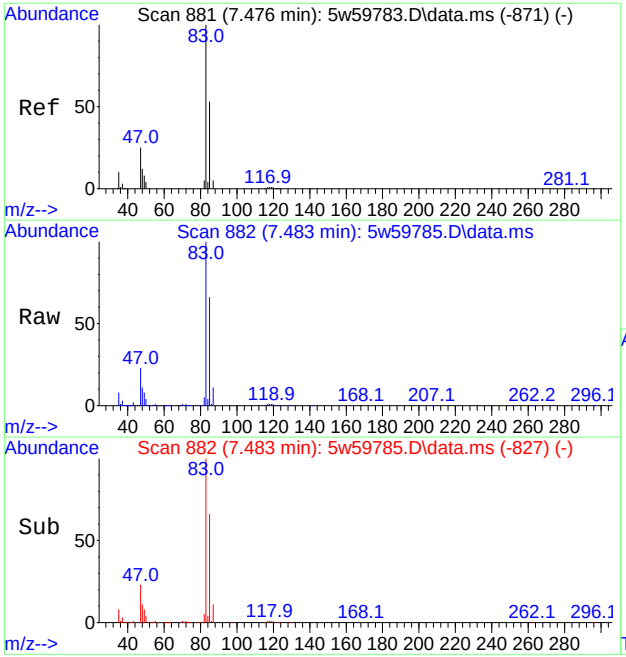


#45
METHYL ACRYLATE
Concen: 40.28 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 3595052

Ion	Ratio	Lower	Upper
55	100		
85	17.5	10.9	20.3
58	14.0	9.4	17.6

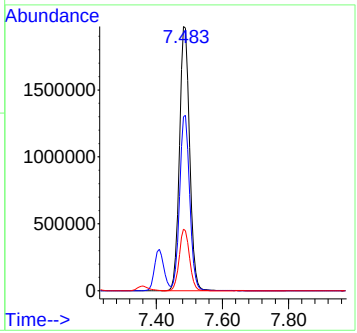


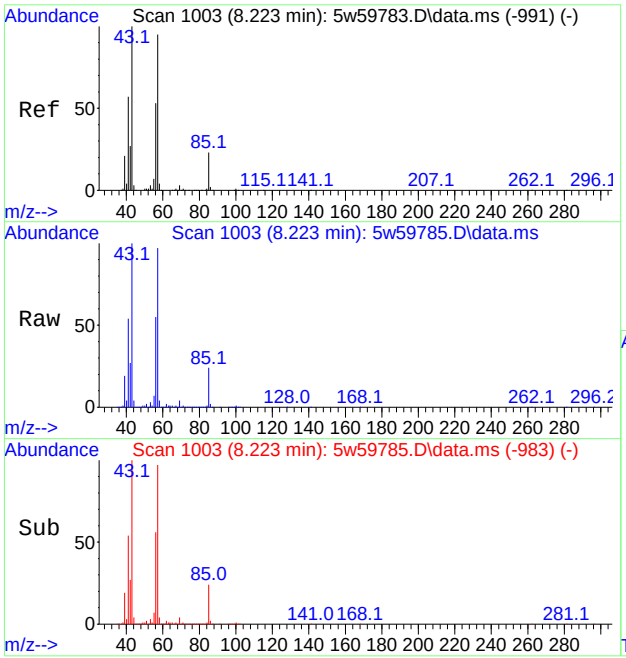


#46
CHLOROFORM
Concen: 36.42 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4216969

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	23.6	0.0	55.2

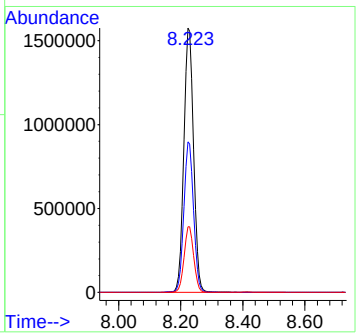


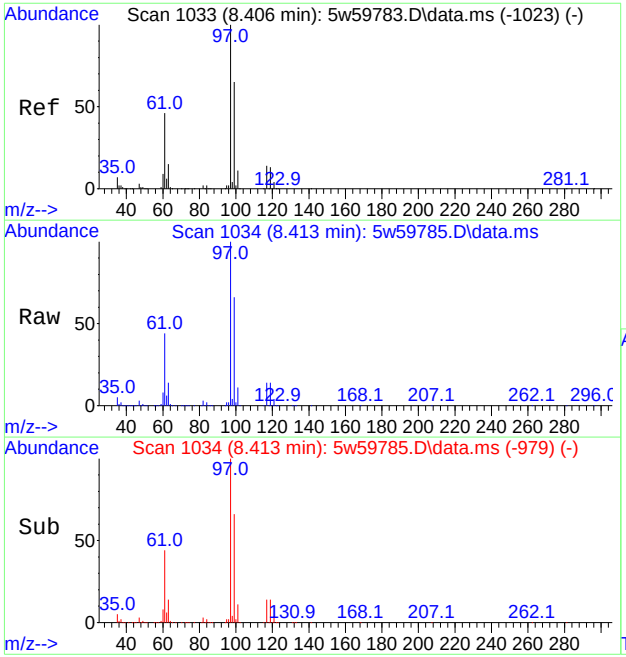


#47
2,4-DIMETHYLPENTANE
Concen: 38.76 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 3428957

Ion	Ratio	Lower	Upper
57	100		
56	57.1	26.5	86.5
85	24.6	0.0	53.8

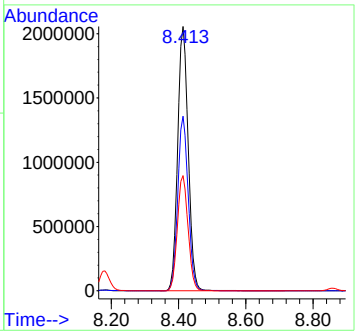


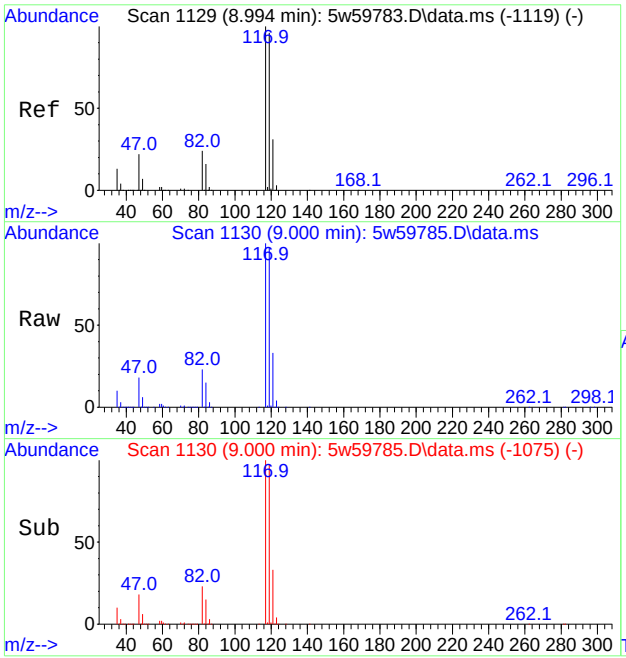


#48
1,1,1-TRICHLOROETHANE
Concen: 35.48 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 97 Resp: 4473116

Ion	Ratio	Lower	Upper
97	100		
99	65.5	34.8	94.8
61	44.3	15.8	75.8

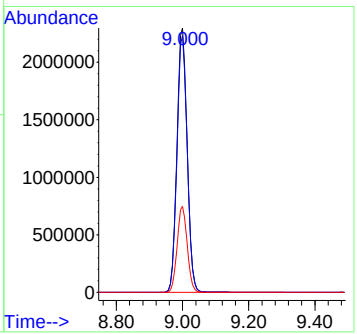


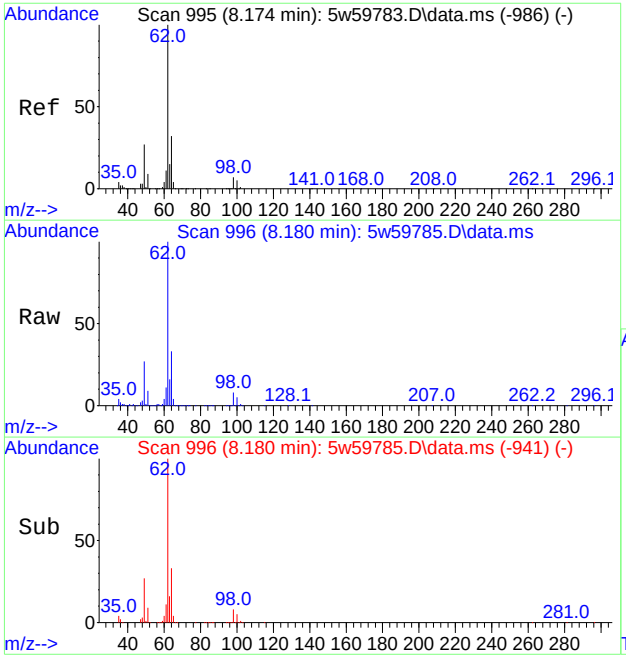


#49
CARBON TETRACHLORIDE
Concen: 35.62 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4942966

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.9	126.9
121	32.2	1.3	61.3

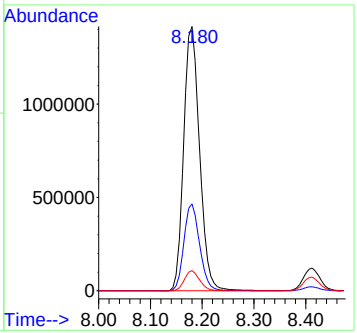


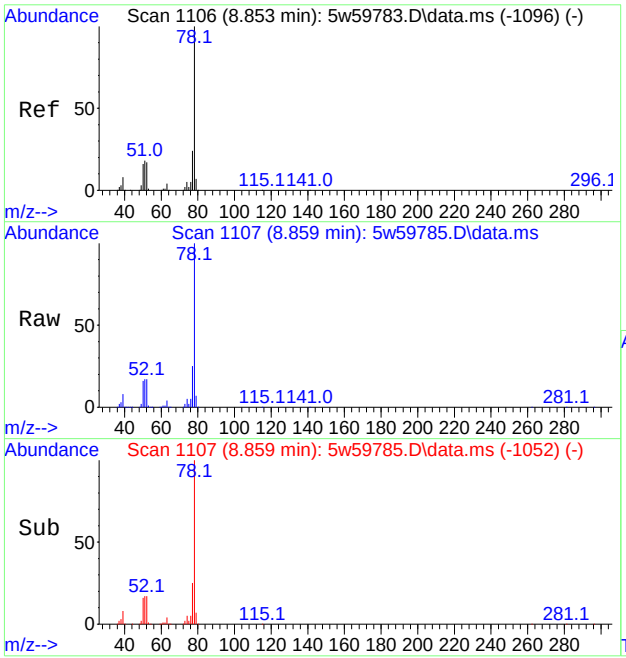


#50
1,2-DICHLOROETHANE
Concen: 37.08 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 3028960

Ion	Ratio	Lower	Upper
62	100		
64	32.6	2.3	62.3
98	7.4	0.0	36.9

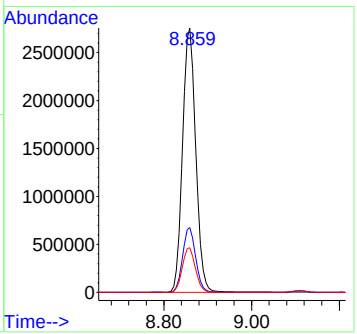


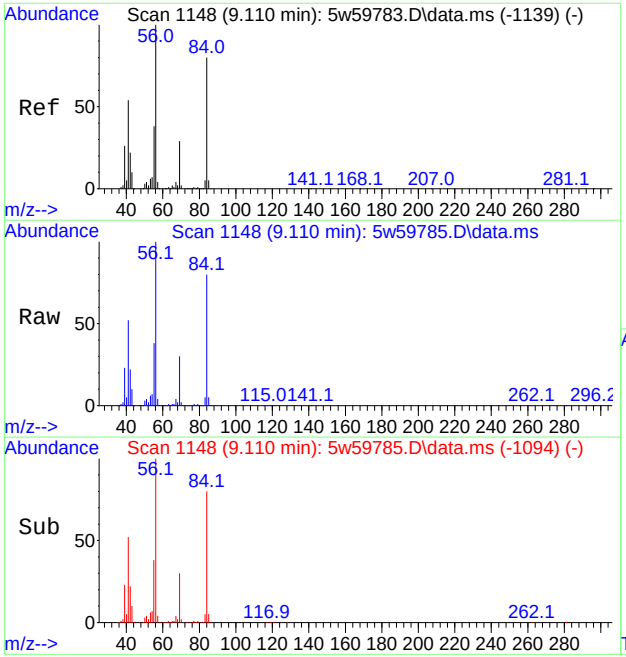


#52
BENZENE
Concen: 44.75 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 78 Resp: 5773385

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	53.8
52	16.9	0.0	46.9

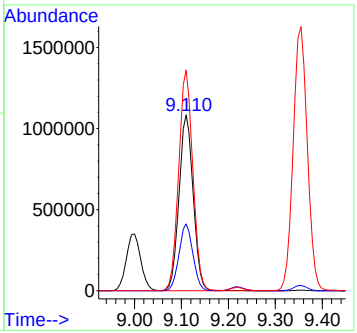


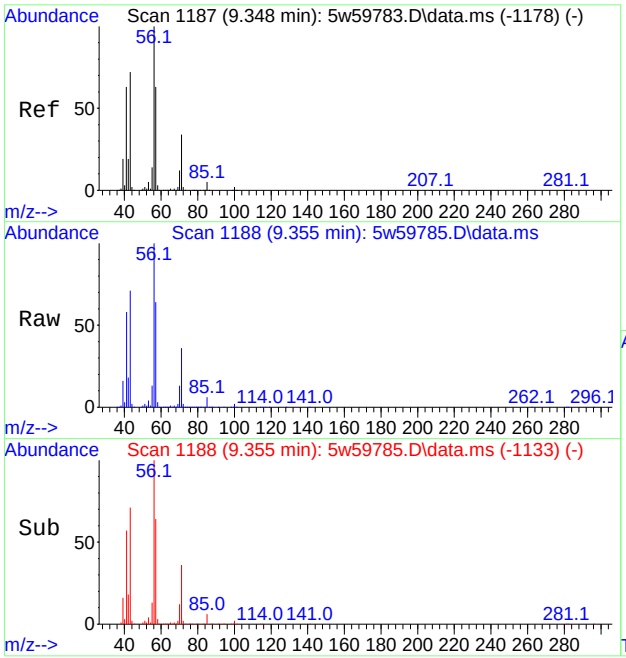


#53
CYCLOHEXANE
Concen: 44.64 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 2282258

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	125.1	98.2	158.2

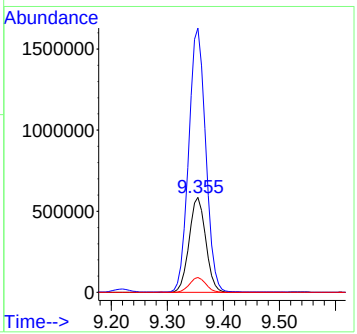


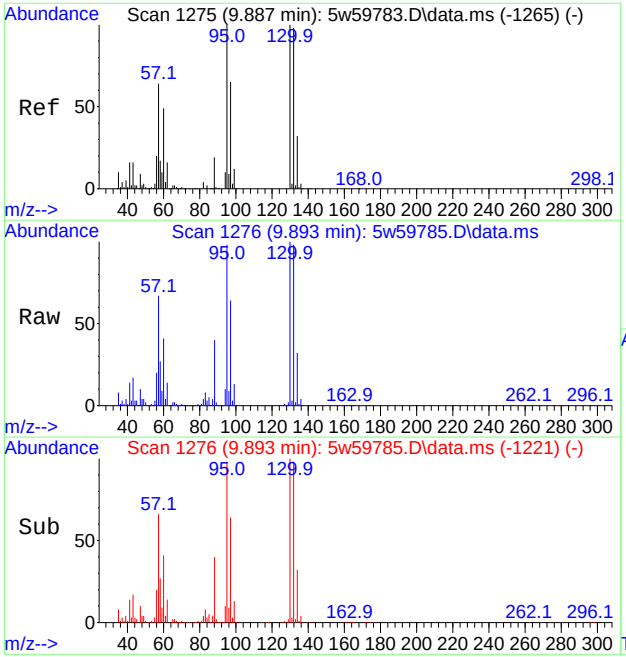


#54
2,3-DIMETHYLPENTANE
Concen: 46.80 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 71 Resp: 1205121

Ion	Ratio	Lower	Upper
71	100		
56	284.5	264.6	324.6
85	15.5	0.0	45.3

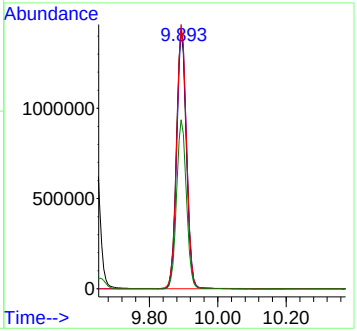


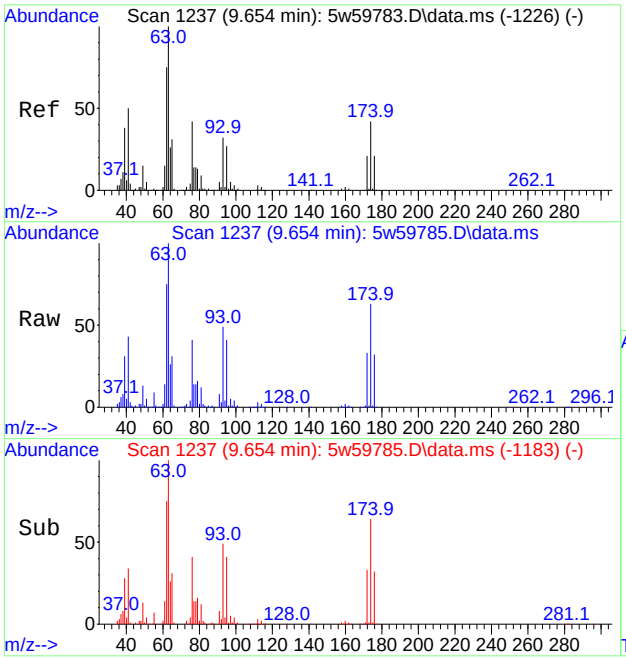


#55
TRICHLOROETHYLENE
Concen: 41.87 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 95 Resp: 2886125

Ion	Ratio	Lower	Upper
95	100		
132	99.9	69.0	129.0
130	102.3	70.6	130.6
97	65.1	34.6	94.6

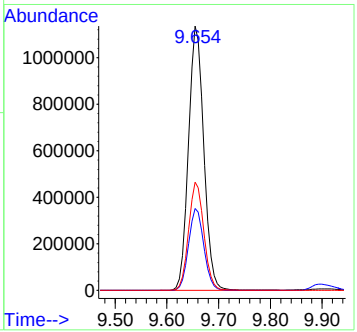


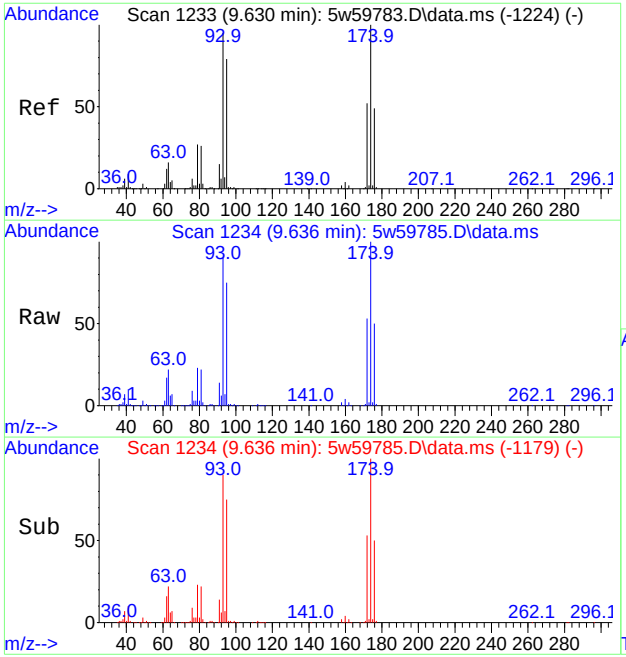


#56
1,2-DICHLOROPROPANE
Concen: 42.47 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 2329113

Ion	Ratio	Lower	Upper
63	100		
65	31.1	0.5	60.5
76	40.9	11.5	71.5

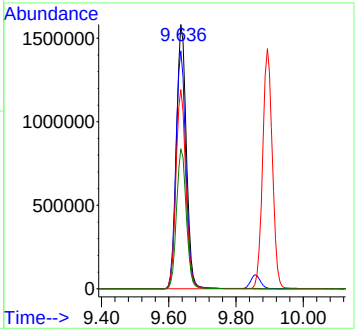


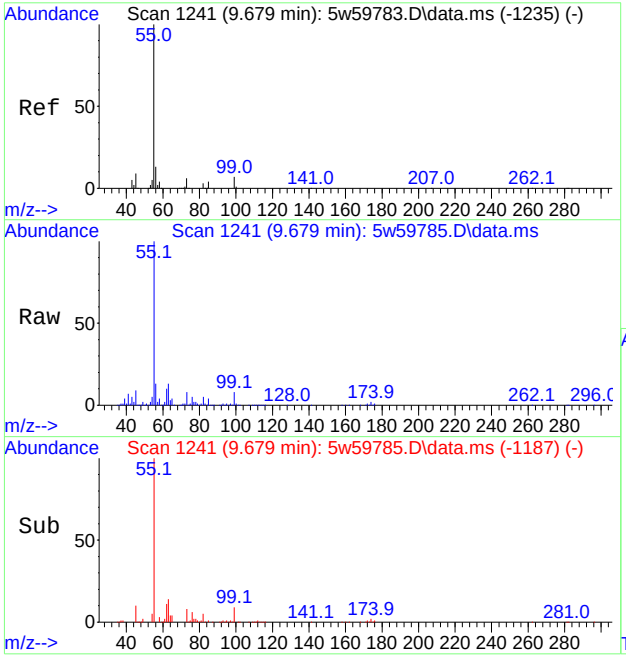


#57
DIBROMOMETHANE
Concen: 42.48 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:174 Resp: 3208165

Ion	Ratio	Lower	Upper
174	100		
93	90.6	65.0	120.6
95	76.0	54.5	101.1
172	52.7	36.3	67.5

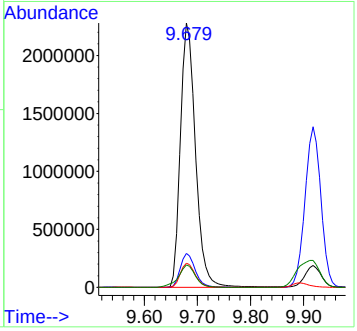


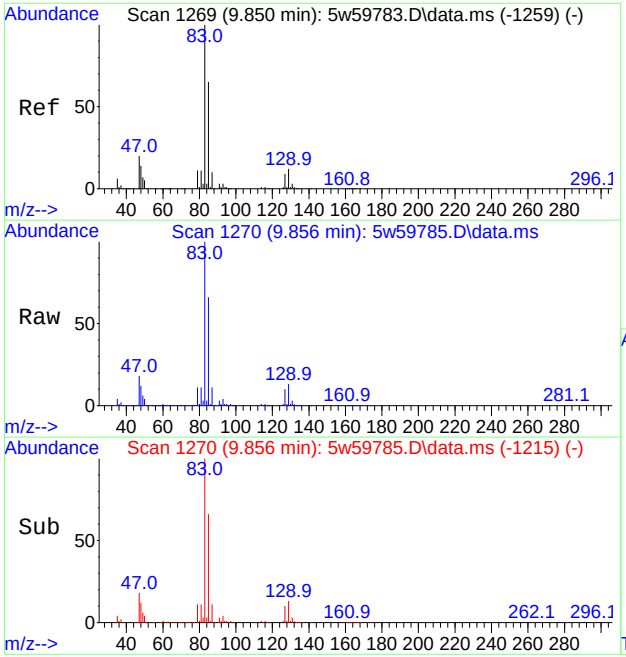


#58
ETHYL ACRYLATE
Concen: 46.25 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 4517787

Ion	Ratio	Lower	Upper
55	100		
56	12.6	8.6	16.0
45	9.1	6.6	12.2
99	9.6	6.4	12.0

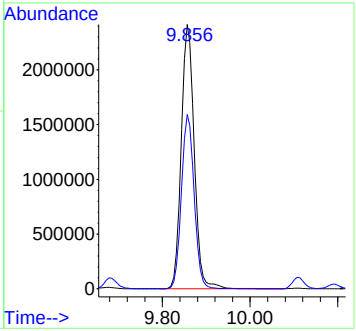


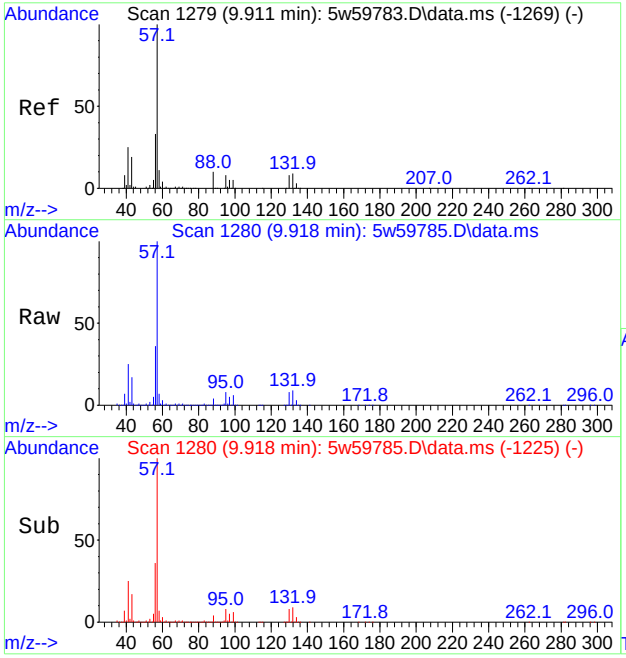


#59
BROMODICHLOROMETHANE
Concen: 40.63 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4951368

Ion	Ratio	Lower	Upper
83	100		
85	64.6	33.4	93.4

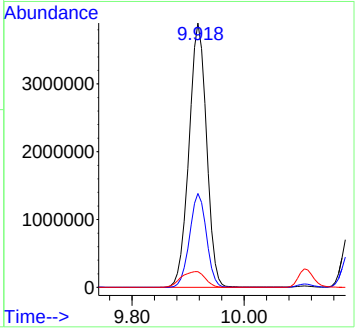


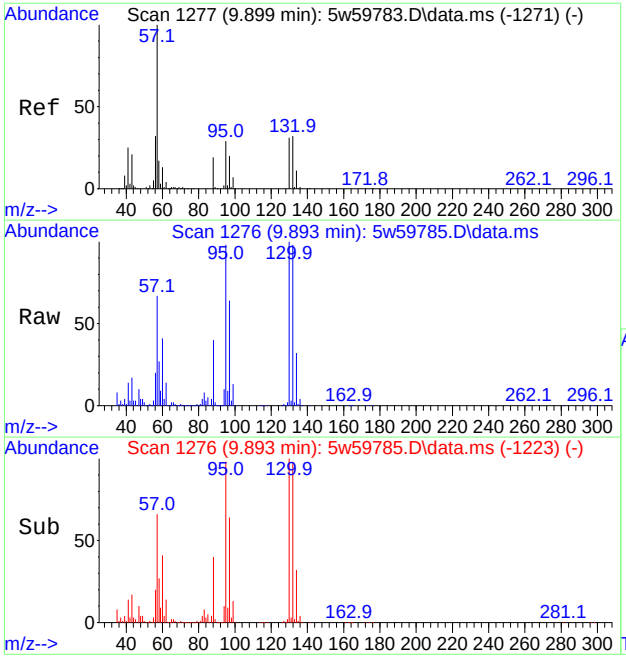


#60
2,2,4-TRIMETHYLPENTANE
Concen: 38.93 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 8459039

Ion	Ratio	Lower	Upper
57	100		
56	34.0	2.5	62.5
99	8.2	0.0	37.3

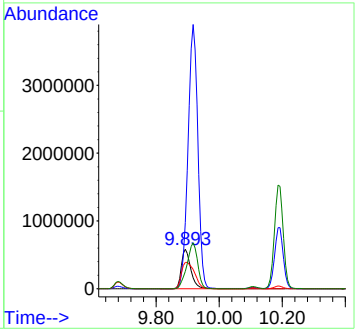


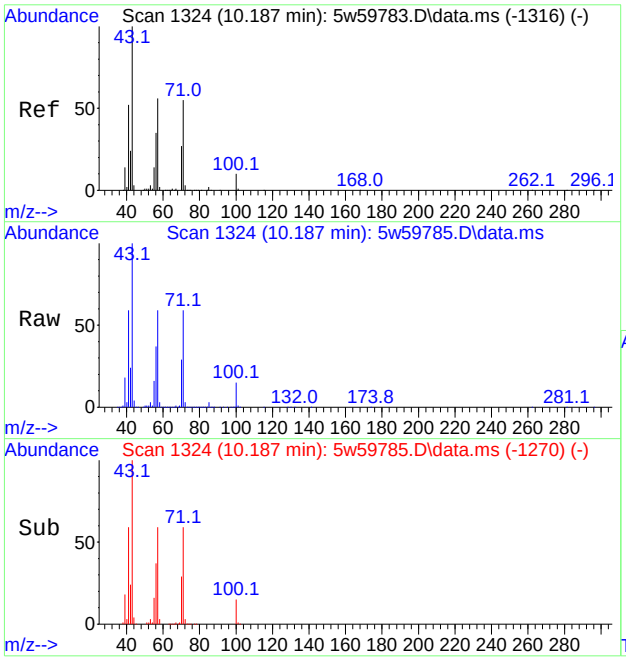


#61
1,4-DIOXANE
Concen: 45.35 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 88 Resp: 1215269

Ion	Ratio	Lower	Upper
88	100		
57	167.4	494.2	554.2#
58	67.1	58.9	118.9
43	43.9	78.3	138.3#

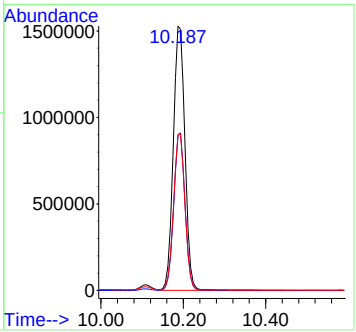


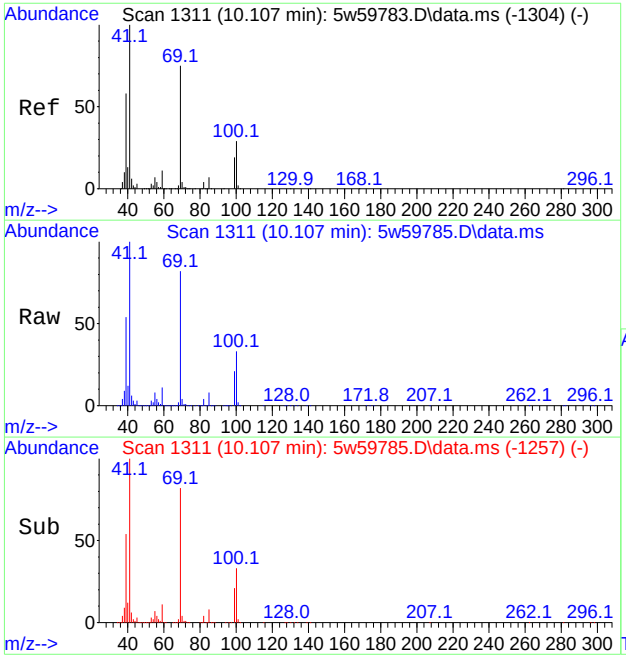


#62
HEPTANE
Concen: 37.77 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 2988992

Ion	Ratio	Lower	Upper
43	100		
71	57.8	24.5	84.5
57	58.3	26.2	86.2

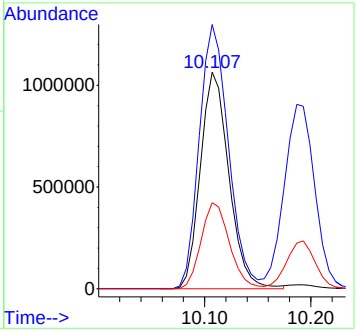


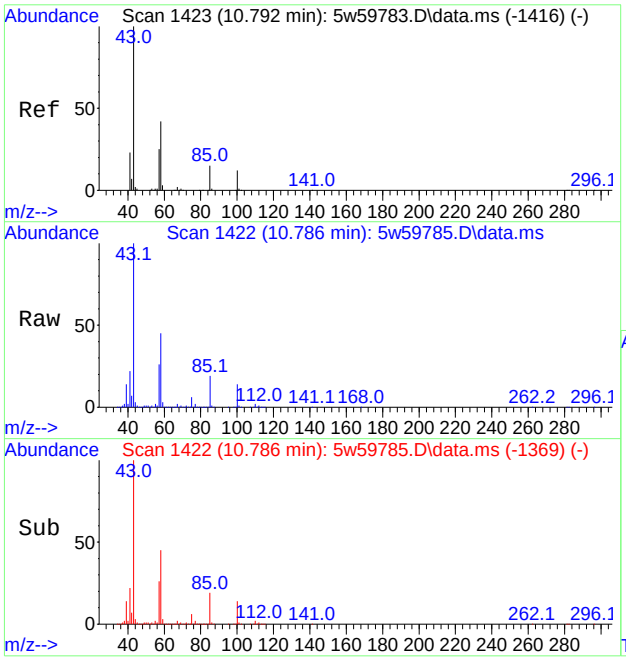


#63
METHYL METHACRYLATE
Concen: 49.92 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 1989625

Ion	Ratio	Lower	Upper
69	100		
41	124.2	95.3	155.3
100	39.6	6.3	66.3

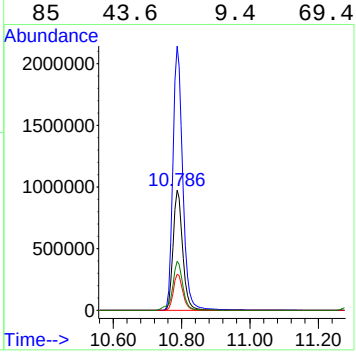


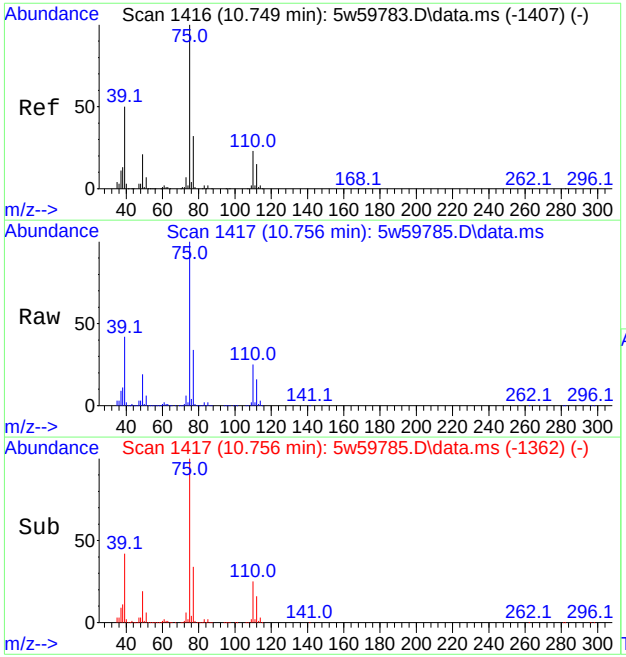


#64
METHYL ISOBUTYL KETONE
Concen: 47.23 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 1921879

Ion	Ratio	Lower	Upper
58	100		
43	225.1	209.2	269.2
100	30.1	0.0	58.8
85	43.6	9.4	69.4

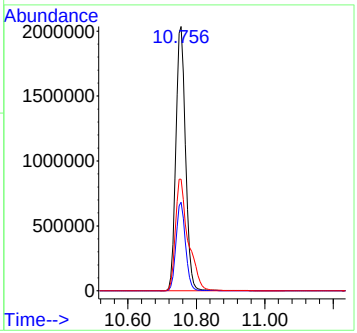


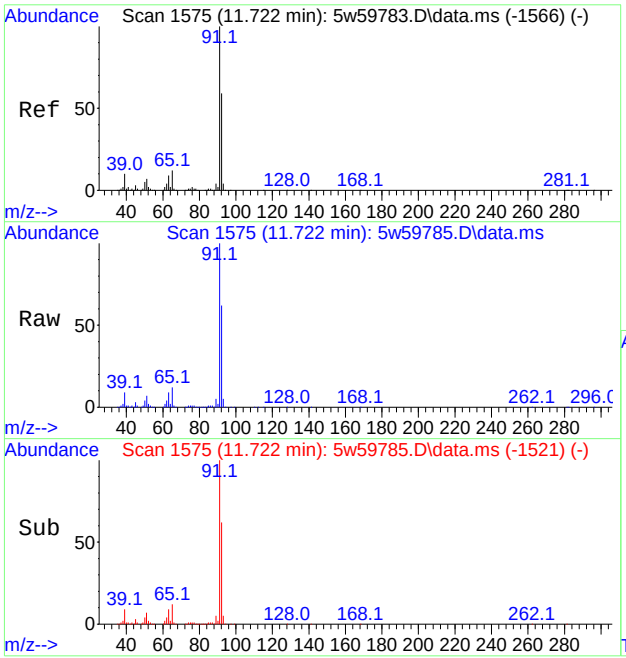


#65
cis-1,3-DICHLOROPROPENE
Concen: 47.39 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4023307

Ion	Ratio	Lower	Upper
75	100		
77	33.0	2.2	62.2
39	56.0	34.3	94.3

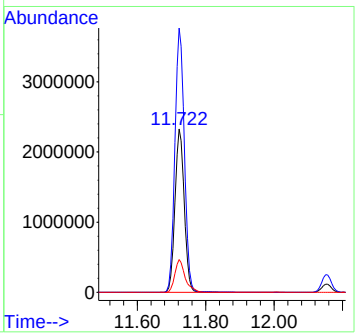


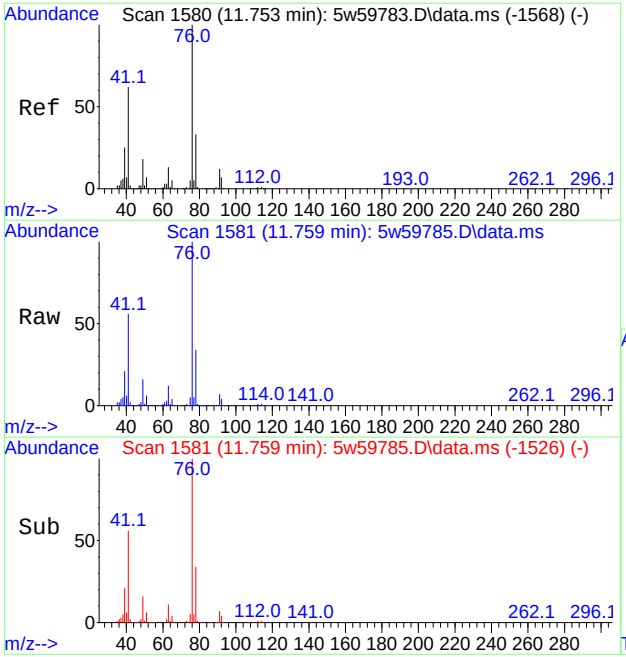


#66
TOLUENE
Concen: 47.83 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 92 Resp: 4414753

Ion	Ratio	Lower	Upper
92	100		
91	164.9	140.1	200.1
65	22.5	0.0	53.1

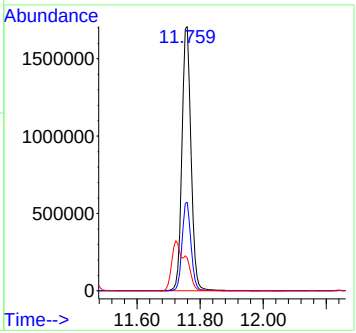


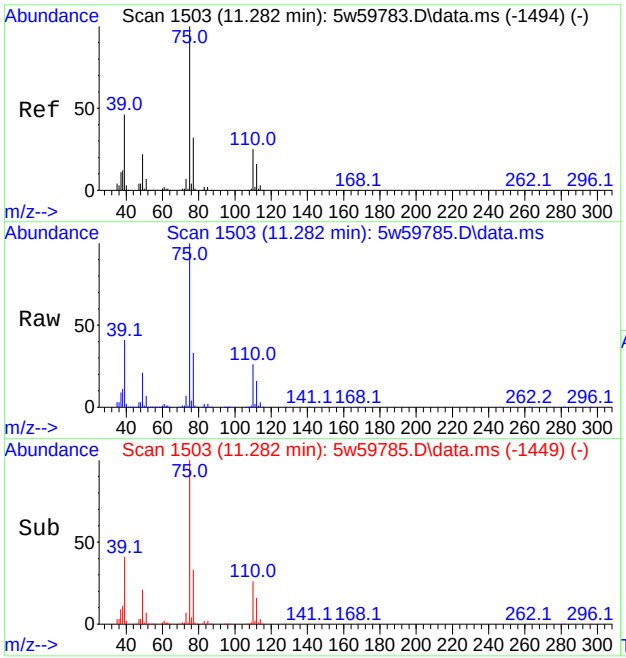


#67
1,3-DICHLOROPROPANE
Concen: 44.02 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 3397591

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	11.1	7.1	13.1

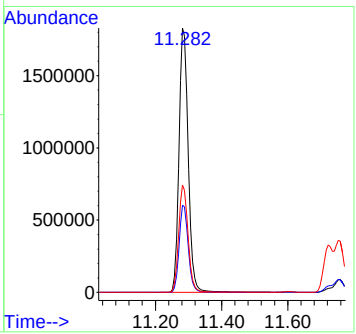


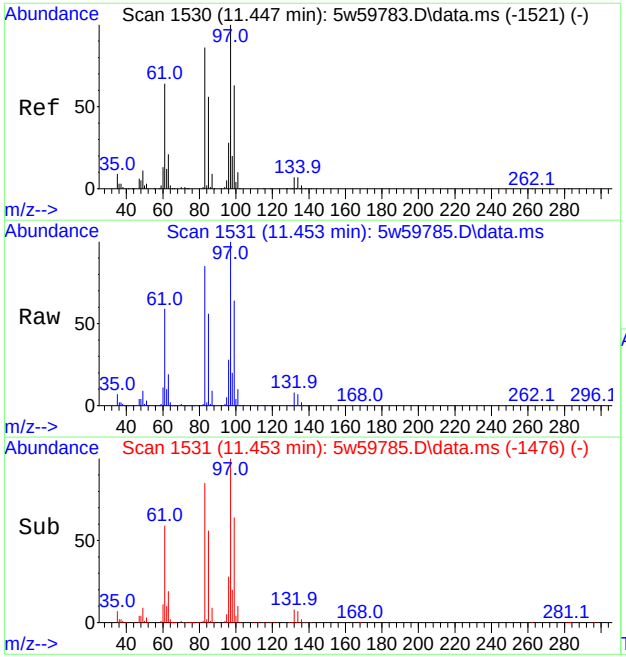


#68
trans-1,3-DICHLOROPROPENE
Concen: 45.59 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 3536223

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	41.6	16.1	76.1

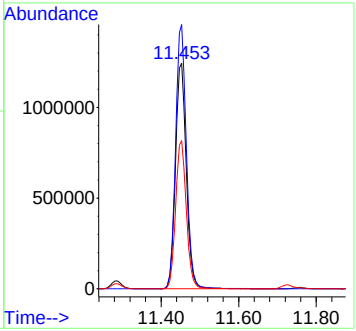


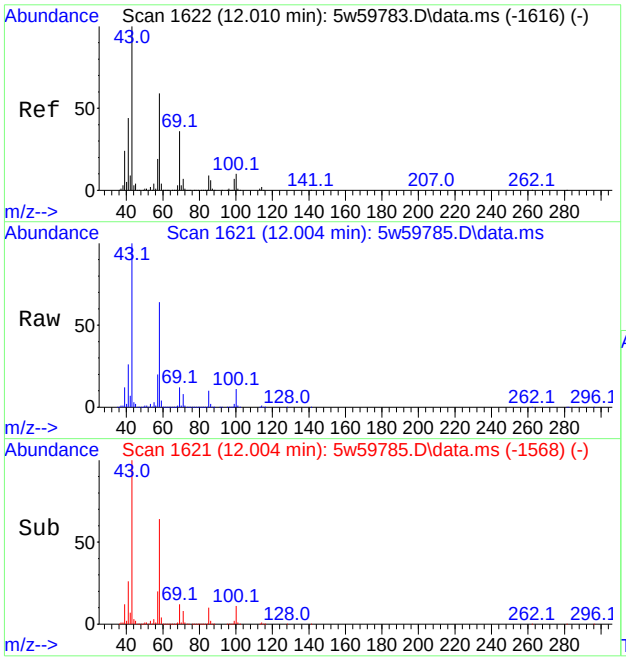


#69
1,1,2-TRICHLOROETHANE
Concen: 47.73 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 2422259

Ion	Ratio	Lower	Upper
83	100		
97	116.5	86.3	146.3
85	65.3	35.3	95.3

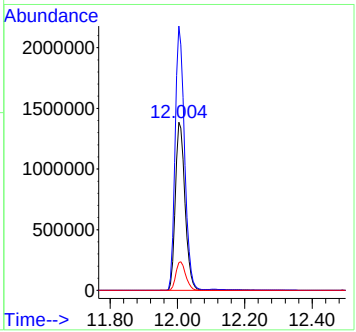


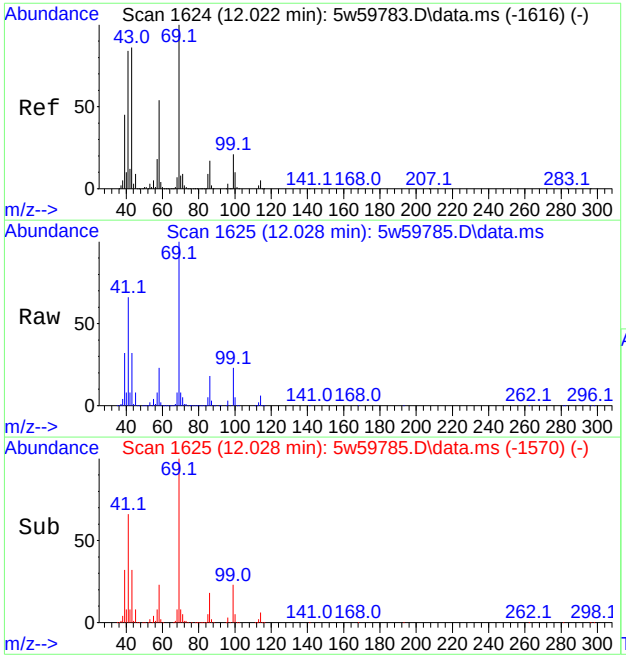


#71
2-HEXANONE
Concen: 43.59 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 2753205

Ion	Ratio	Lower	Upper
58	100		
43	154.2	137.2	197.2
100	17.6	0.0	46.9

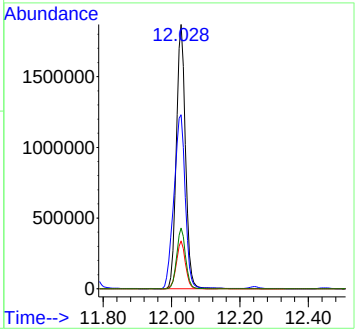


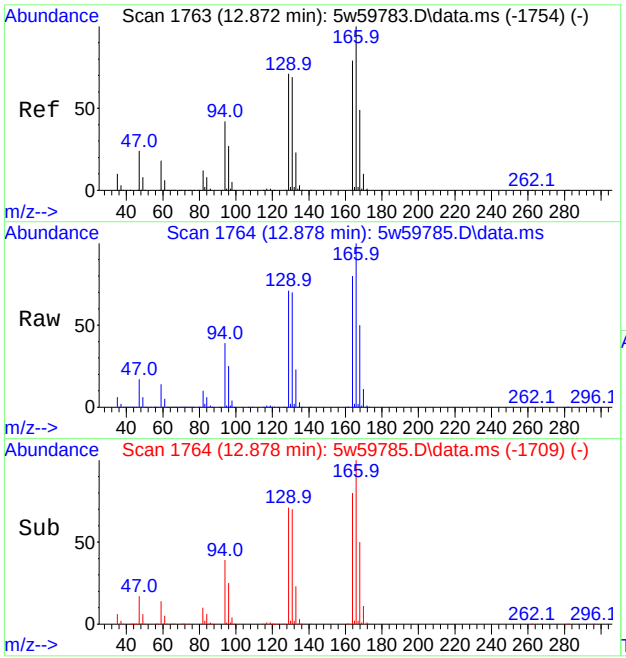


#72
ETHYL METHACRYLATE
Concen: 43.20 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 3484828

Ion	Ratio	Lower	Upper
69	100		
41	81.9	64.0	119.0
86	18.0	12.0	22.4
99	22.5	15.0	27.8

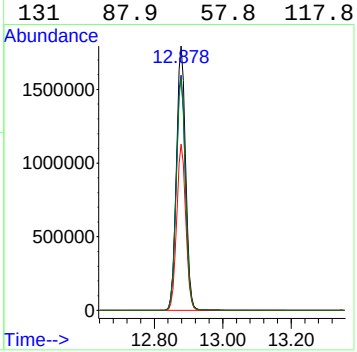


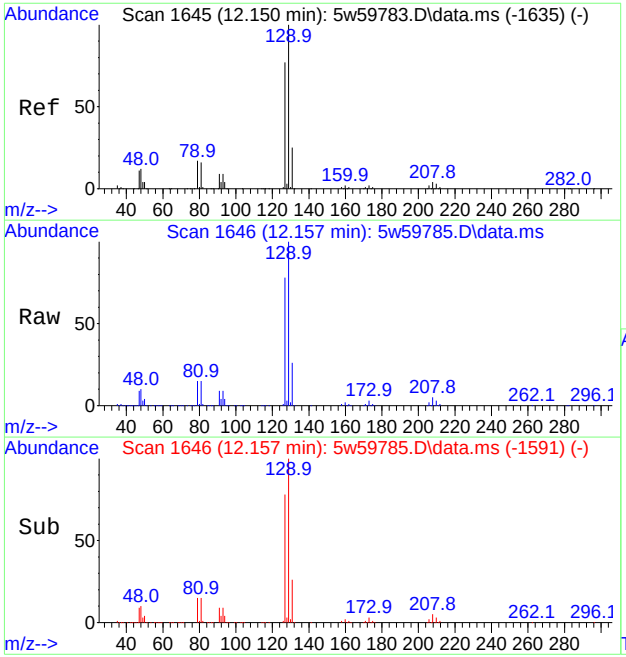


#73
TETRACHLOROETHYLENE
Concen: 35.84 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:164 Resp: 3370251

Ion	Ratio	Lower	Upper
164	100		
129	89.6	59.7	119.7
168	62.4	32.2	92.2
131	87.9	57.8	117.8

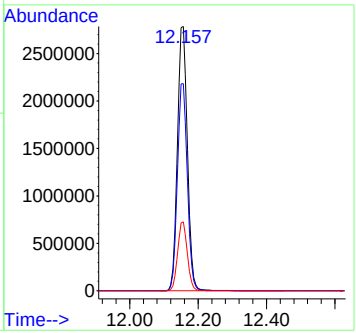


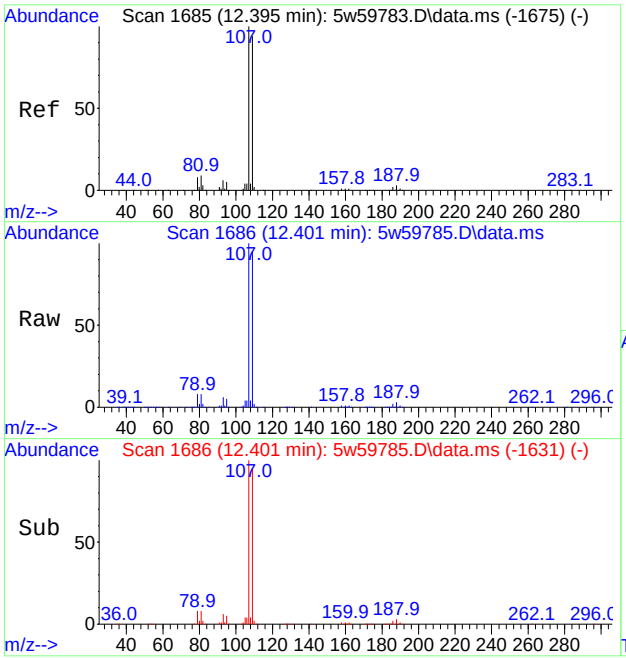


#74
DIBROMOCHLOROMETHANE
Concen: 35.57 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:129 Resp: 5622668

Ion	Ratio	Lower	Upper
129	100		
127	78.3	47.1	107.1
131	25.5	0.0	54.5

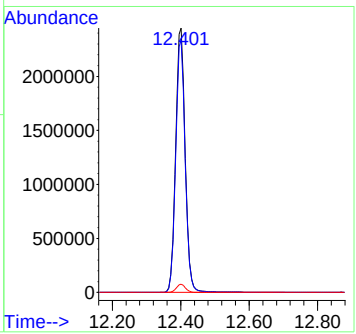


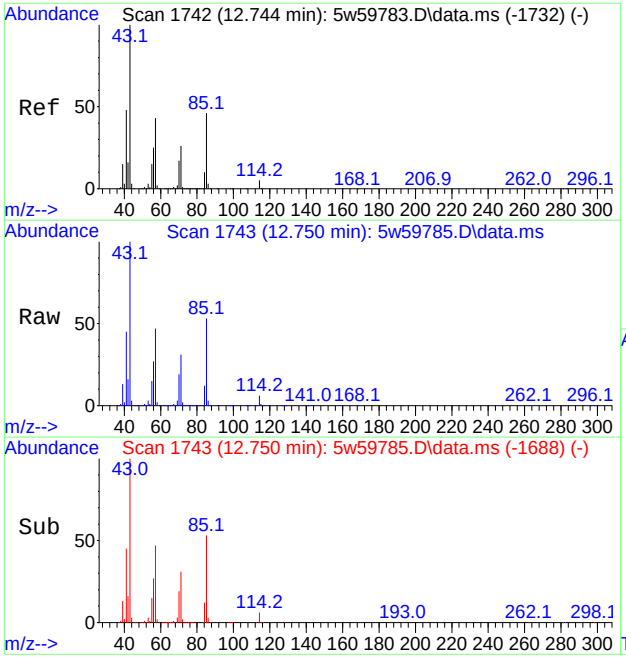


#75
1,2-DIBROMOETHANE
Concen: 40.93 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:107 Resp: 4750806

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

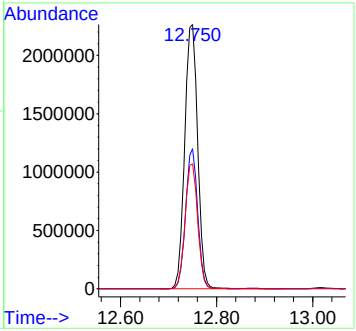


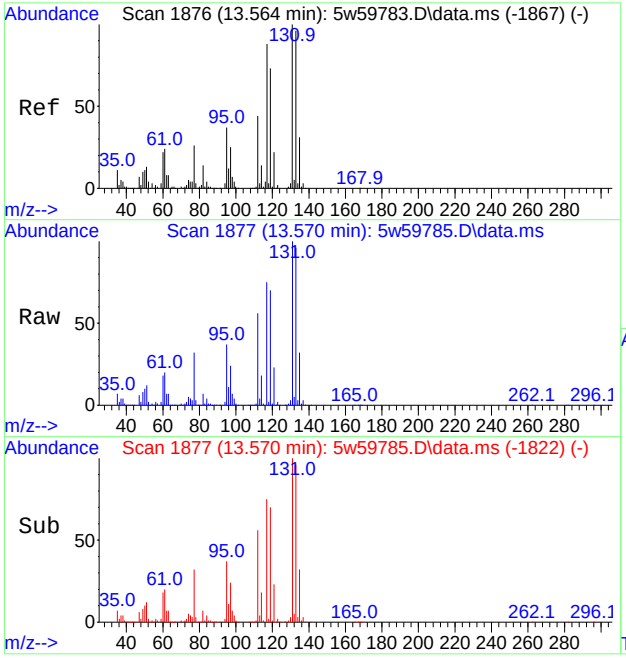


#76
OCTANE
Concen: 32.56 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4235557

Ion	Ratio	Lower	Upper
43	100		
85	49.4	14.6	74.6
57	46.0	13.7	73.7

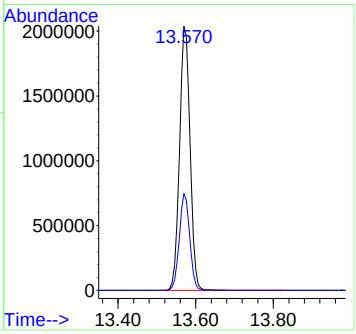


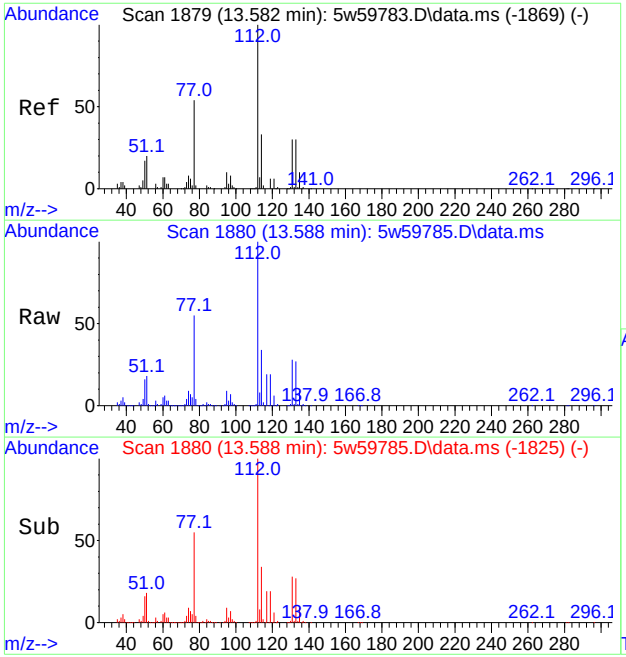


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 37.26 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:131 Resp: 3854037

Ion	Ratio	Lower	Upper
131	100		
95	36.3	6.5	66.5

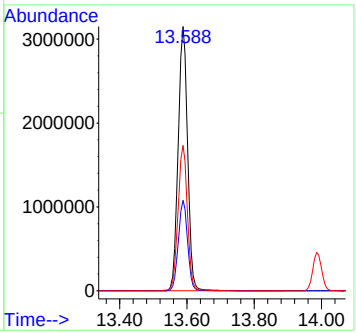


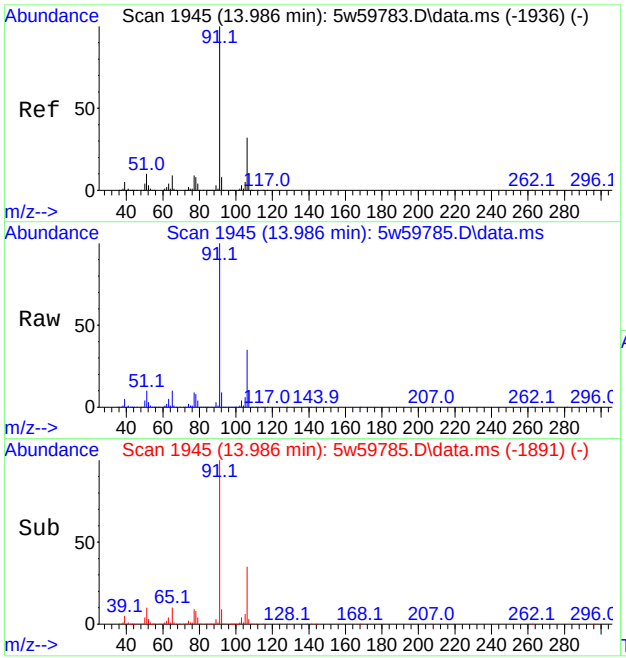


#78
CHLOROBENZENE
Concen: 35.87 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:112 Resp: 6101033

Ion	Ratio	Lower	Upper
112	100		
114	33.7	2.6	62.6
77	55.0	25.4	85.4

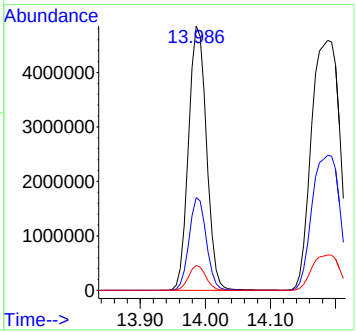


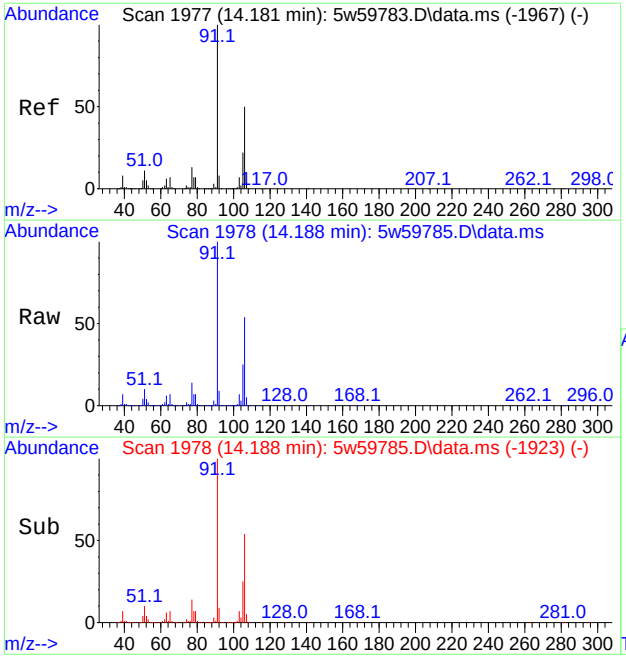


#79
ETHYLBENZENE
Concen: 38.31 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 9323124

Ion	Ratio	Lower	Upper
91	100		
106	33.7	1.3	61.3
77	9.0	0.0	38.6

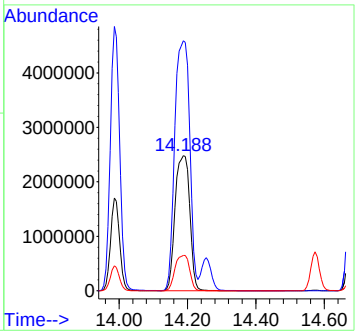


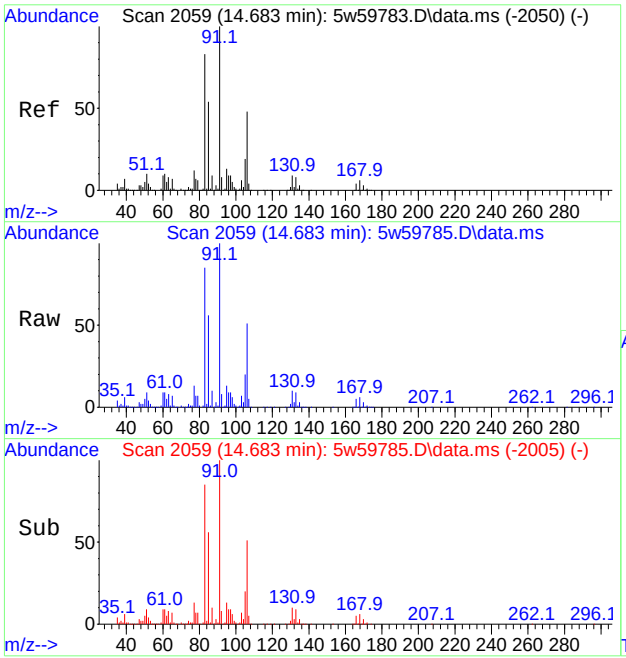


#80
m,p-XYLENE
Concen: 79.24 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 7385992

Ion	Ratio	Lower	Upper
106	100		
91	184.9	171.0	231.0
77	26.2	0.0	56.7

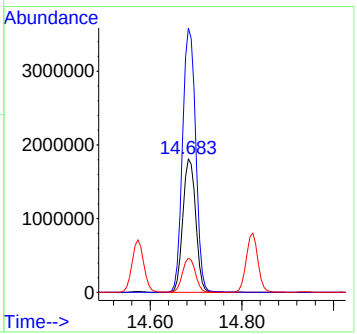


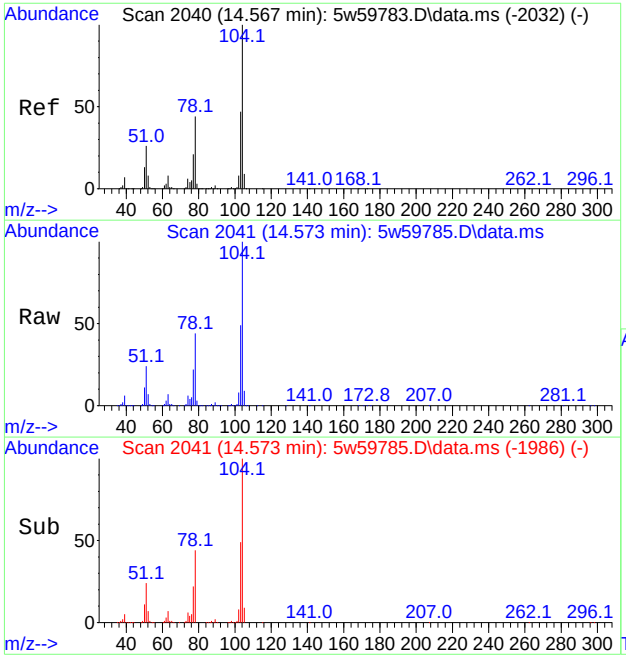


#81
o-XYLENE
Concen: 41.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 3531781

Ion	Ratio	Lower	Upper
106	100		
91	202.6	181.6	241.6
77	25.7	0.0	56.6

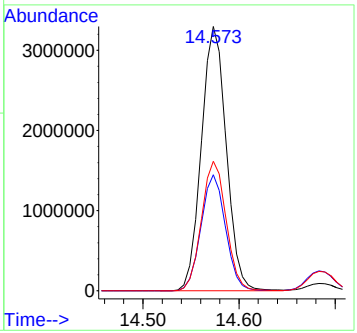


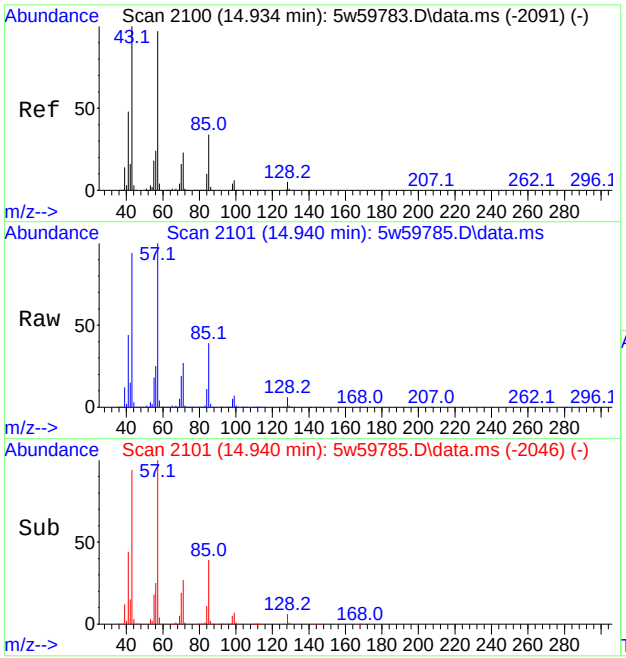


#82
STYRENE
Concen: 45.55 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:104 Resp: 5945197

Ion	Ratio	Lower	Upper
104	100		
78	43.2	13.3	73.3
103	48.5	17.2	77.2

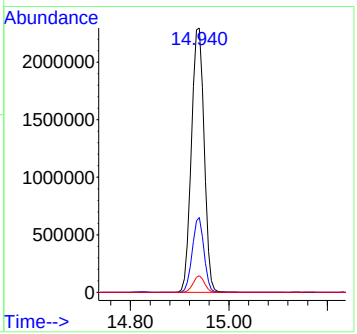


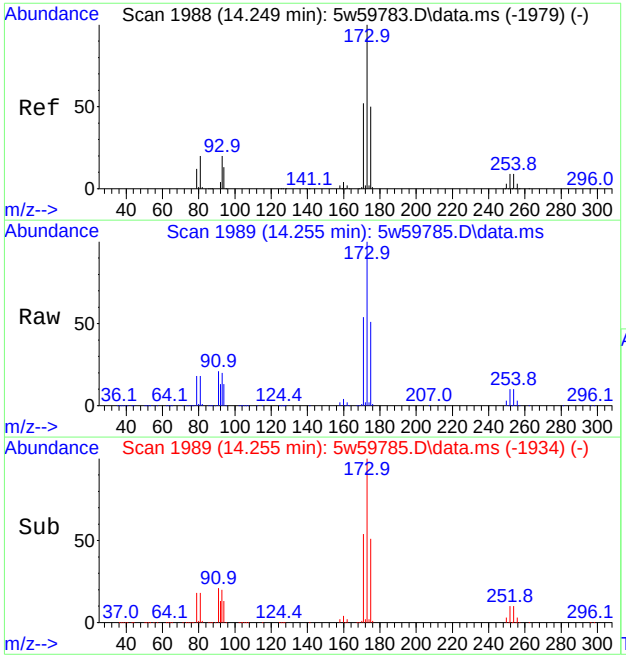


#83
NONANE
Concen: 31.95 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4120325

Ion	Ratio	Lower	Upper
43	100		
71	26.0	0.0	52.7
128	5.7	0.0	34.7

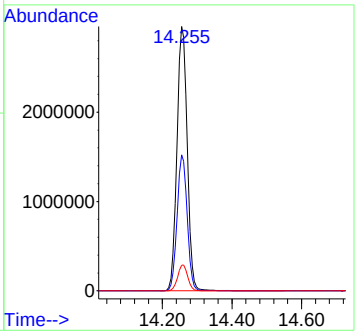


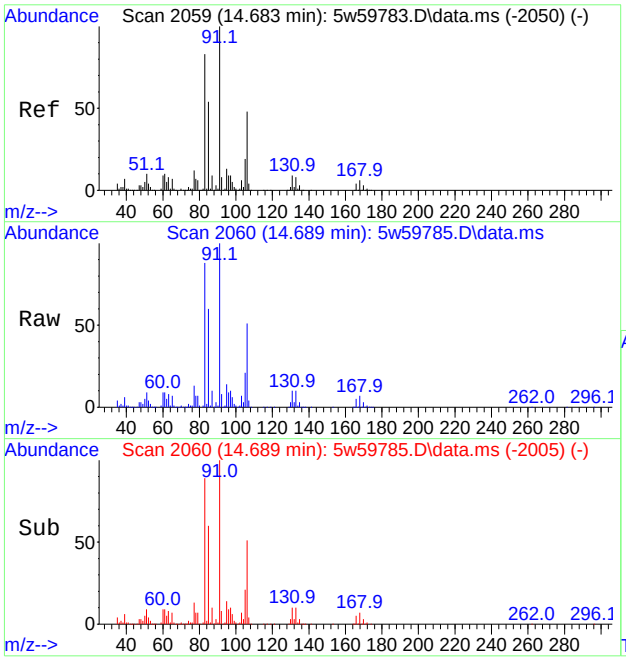


#84
BROMOFORM
Concen: 37.29 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:173 Resp: 6063084

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	9.5	0.0	39.0

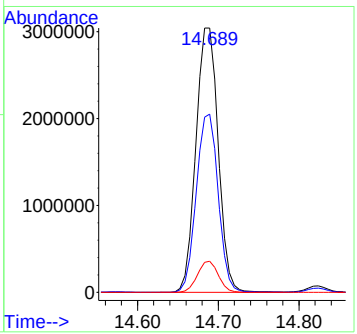


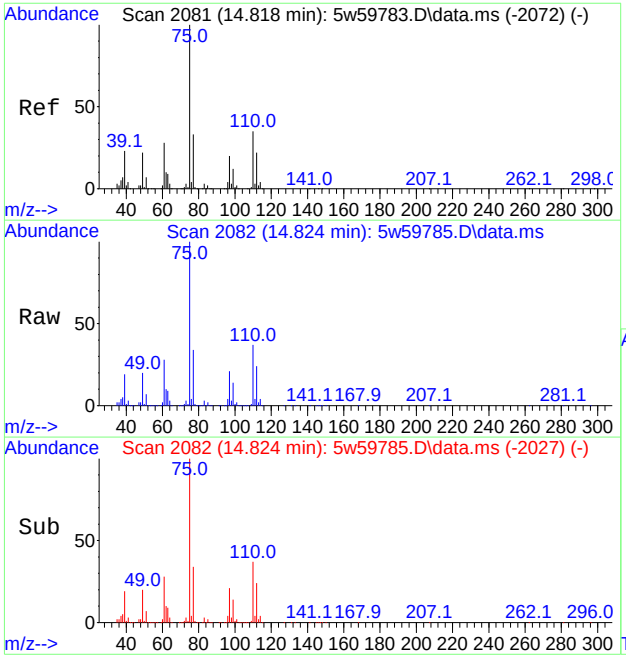


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 38.41 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 5834633

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.2	95.2
131	11.1	0.0	40.3

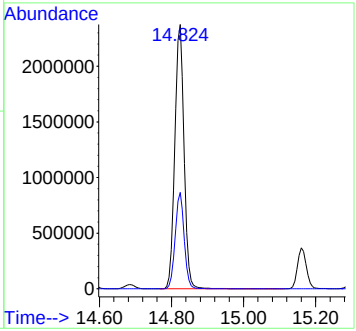


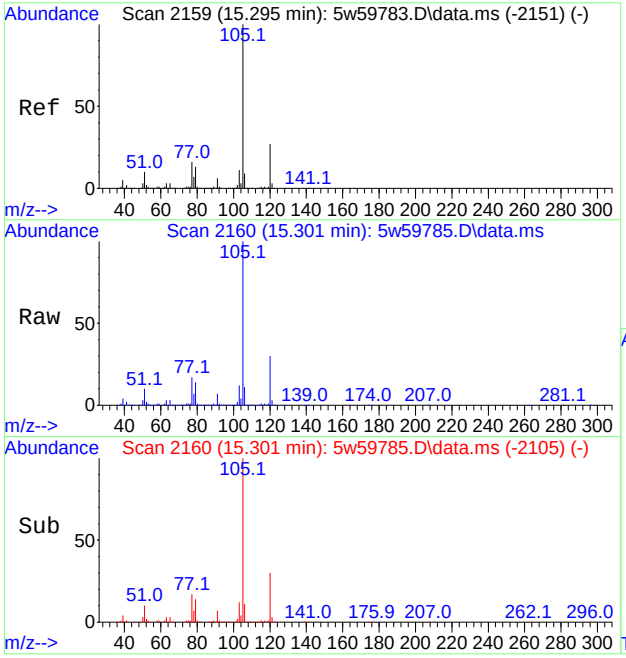


#87
1,2,3-TRICHLOROPROPANE
Concen: 33.30 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4239056

Ion	Ratio	Lower	Upper
75	100		
110	35.6	4.4	64.4

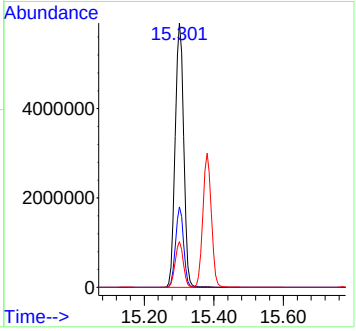


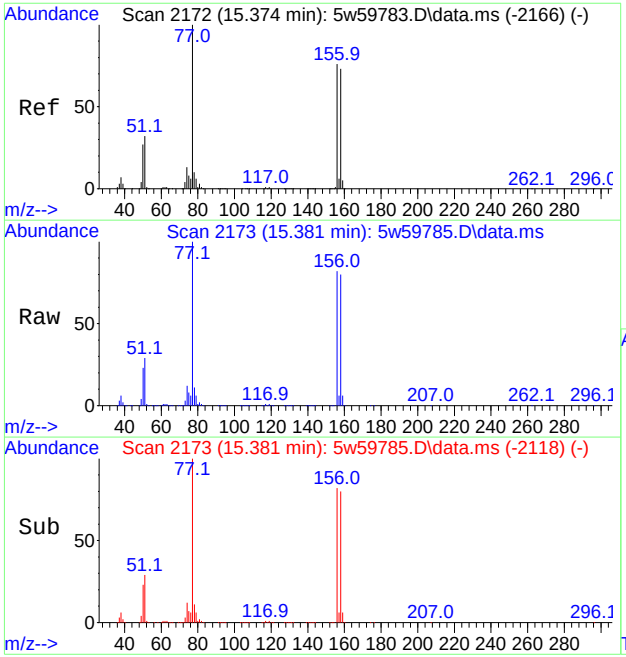


#88
ISOPROPYLBENZENE
Concen: 35.54 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp:10105051

Ion	Ratio	Lower	Upper
105	100		
120	28.8	0.0	56.0
77	16.4	0.0	45.6

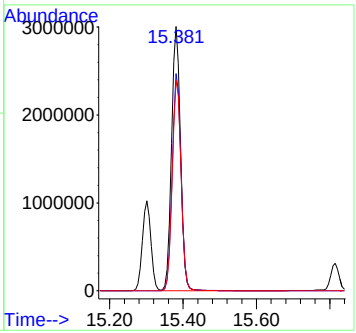


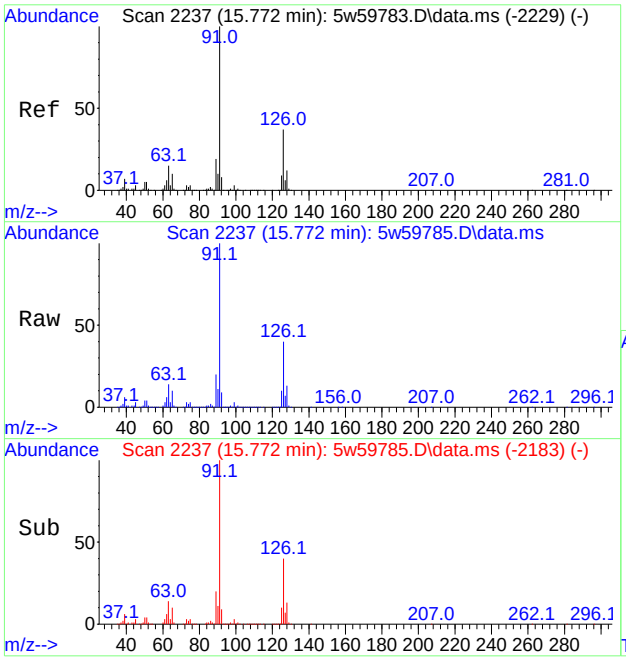


#89
BROMOBENZENE
Concen: 34.24 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 77 Resp: 5092227

Ion	Ratio	Lower	Upper
77	100		
156	81.3	54.9	101.9
158	79.0	53.5	99.3

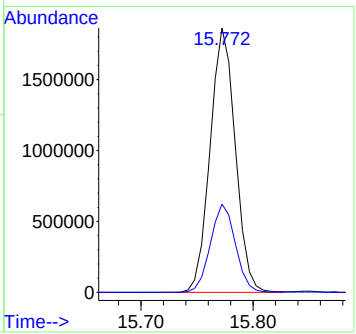


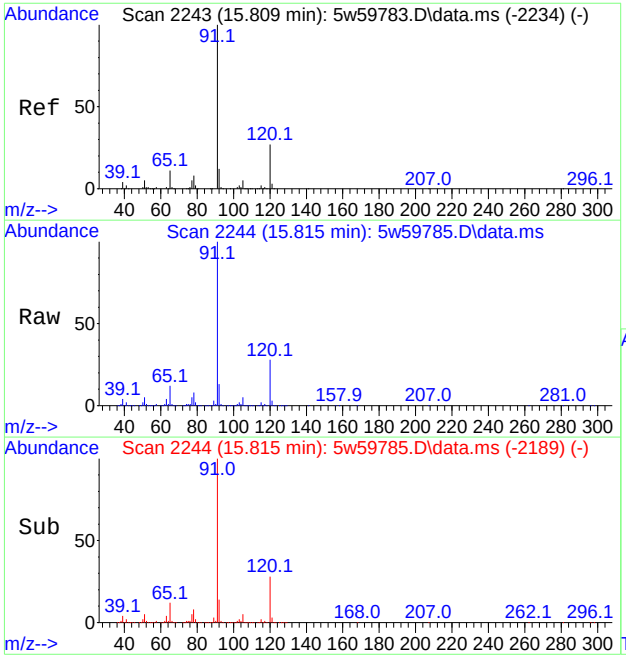


#90
2-CHLOROTOLUENE
Concen: 38.46 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:126 Resp: 2919479

Ion	Ratio	Lower	Upper
126	100		
128	33.1	2.7	62.7

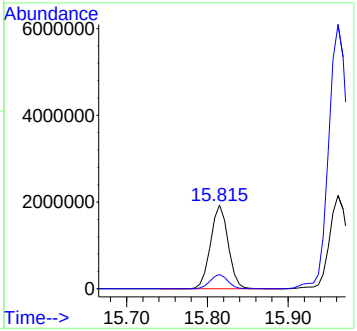


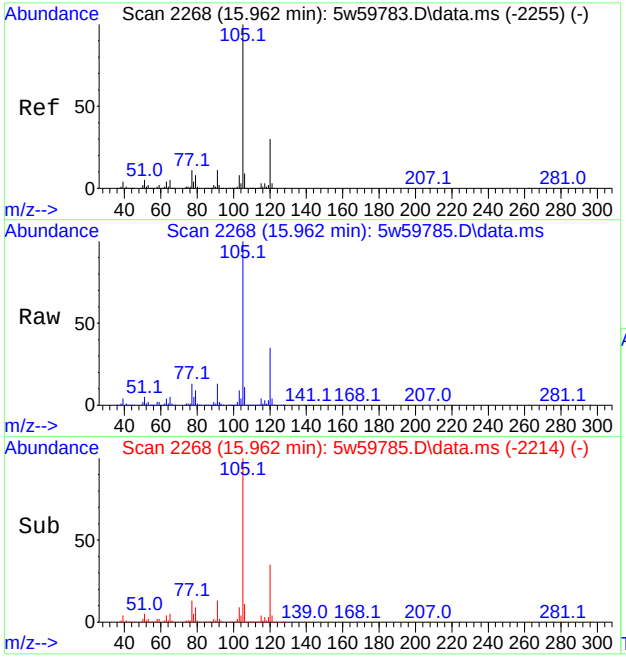


#91
n-PROPYLBENZENE
Concen: 38.73 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:120 Resp: 2929586

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

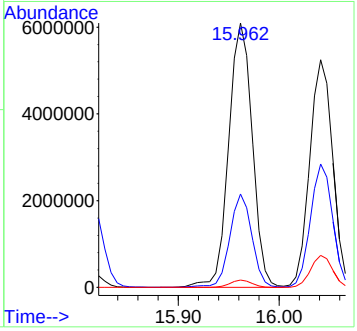


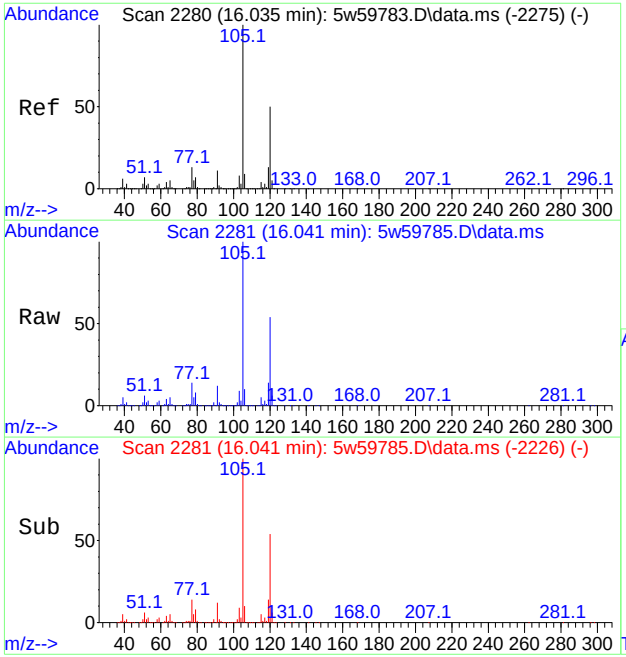


#92
4-ETHYLTOLUENE
Concen: 38.91 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 9932010

Ion	Ratio	Lower	Upper
105	100		
120	33.0	0.0	59.9
119	2.6	0.0	32.3

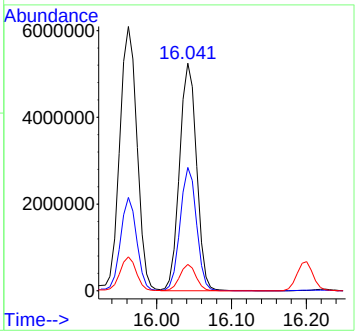


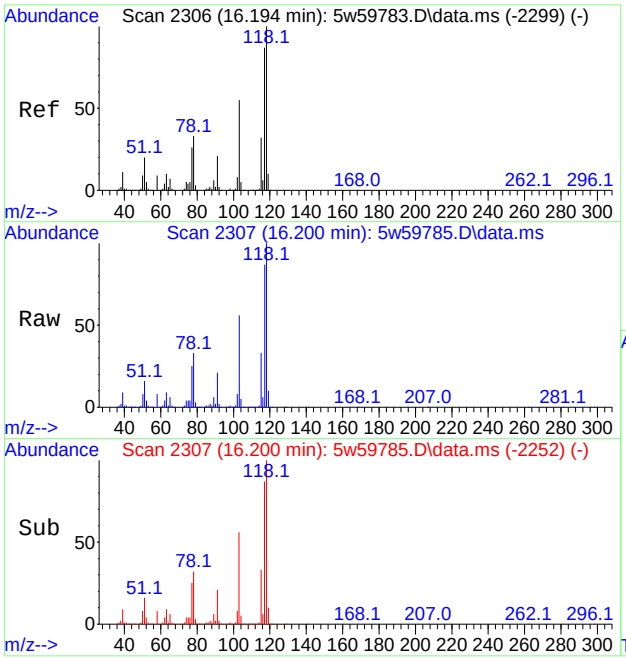


#93
1,3,5-TRIMETHYLBENZENE
Concen: 35.08 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 8308295

Ion	Ratio	Lower	Upper
105	100		
120	52.2	19.4	79.4
91	11.1	0.0	40.8

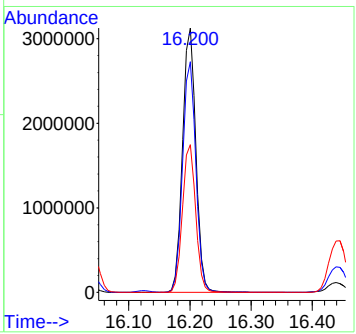


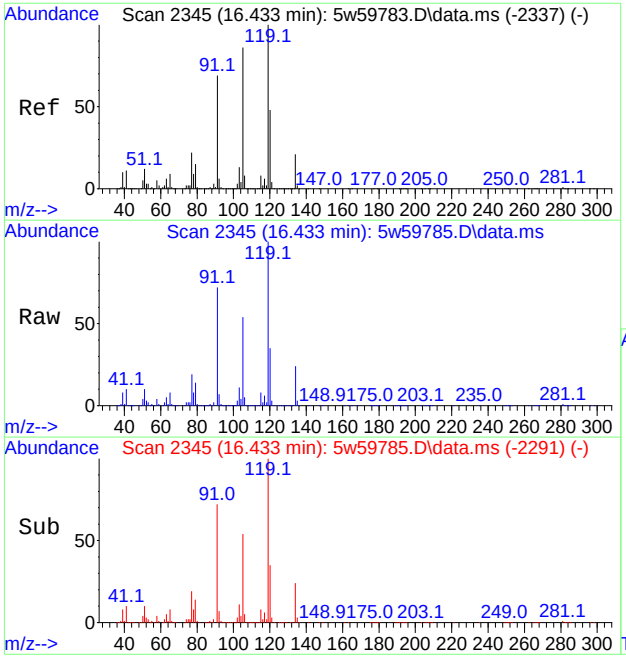


#94
ALPHA-METHYLSTYRENE
Concen: 41.57 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:118 Resp: 4732251

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.7	38.6	71.8

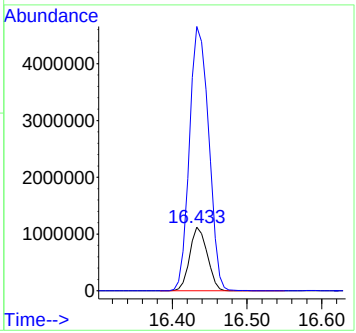


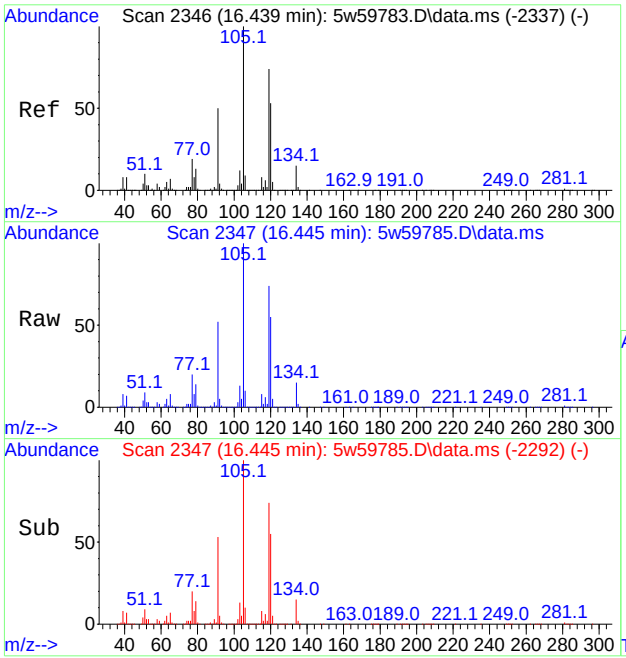


#95
tert-BUTYLBENZENE
Concen: 37.13 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 1826681

Ion	Ratio	Lower	Upper
134	100		
119	457.8	459.3	519.3#

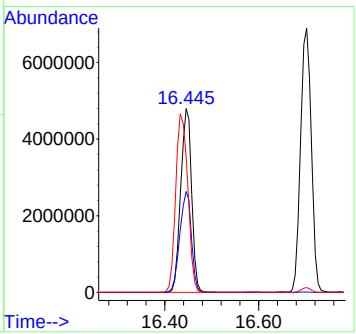


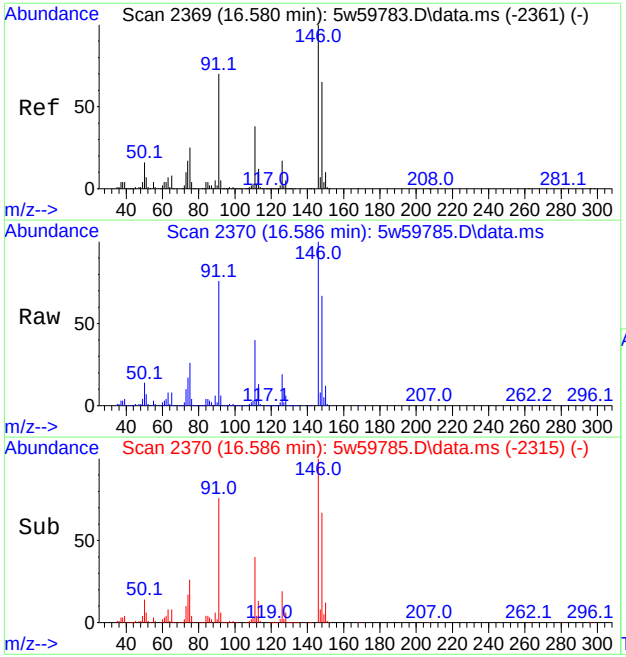


#96
1,2,4-TRIMETHYLBENZENE
Concen: 33.90 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7744703

Ion	Ratio	Lower	Upper
105	100		
120	58.3	25.7	85.7
119	108.0	75.7	135.7

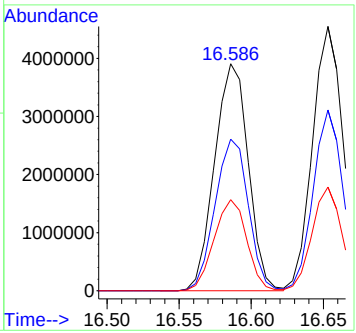


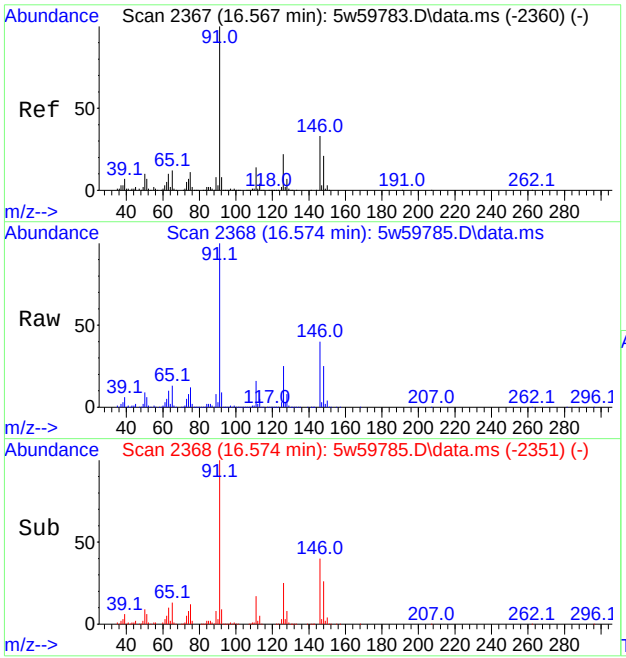


#97
m-DICHLOROBENZENE
Concen: 34.54 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6361294

Ion	Ratio	Lower	Upper
146	100		
148	66.1	34.8	94.8
111	39.0	8.2	68.2

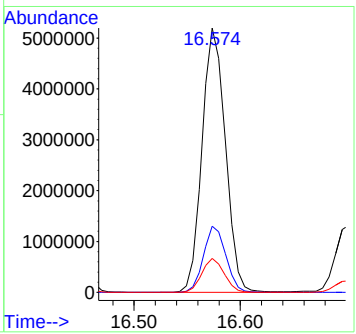


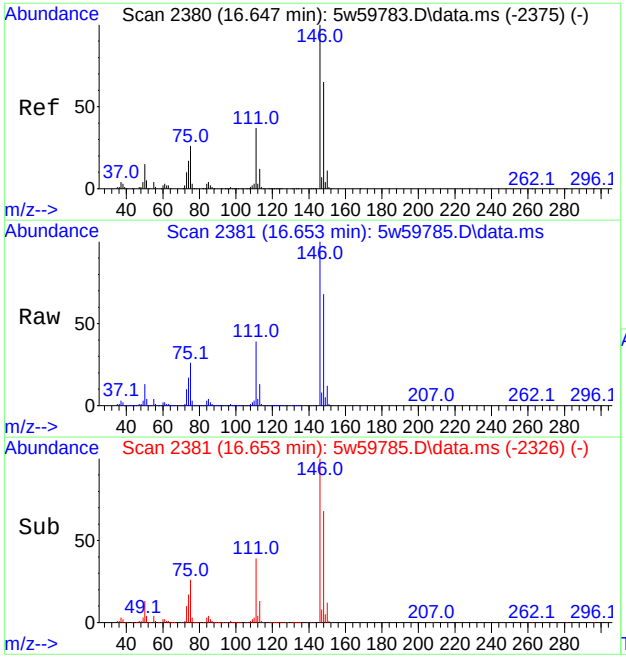


#98
BENZYL CHLORIDE
Concen: 38.06 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 7942485

Ion	Ratio	Lower	Upper
91	100		
126	24.0	0.0	51.7
65	12.3	0.0	42.2

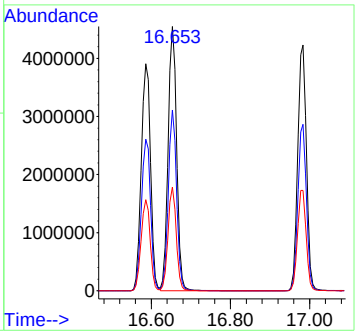


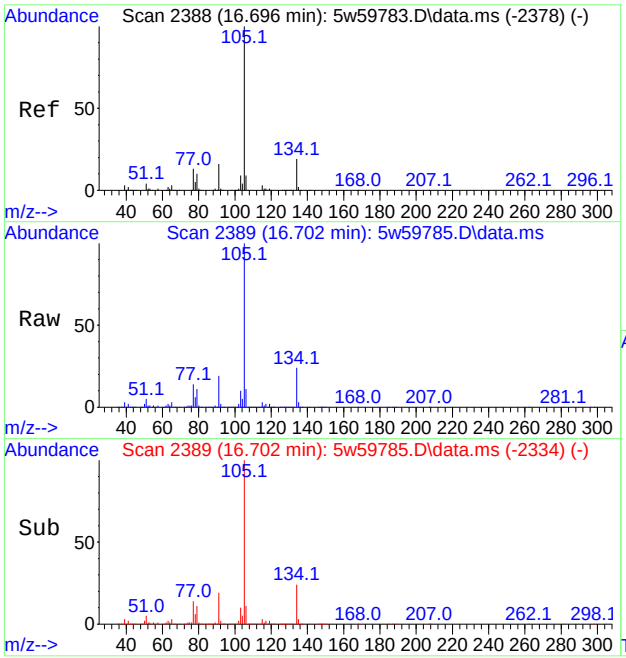


#99
p-DICHLOROBENZENE
Concen: 35.68 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6796416

Ion	Ratio	Lower	Upper
146	100		
148	66.6	34.6	94.6
111	38.0	6.7	66.7

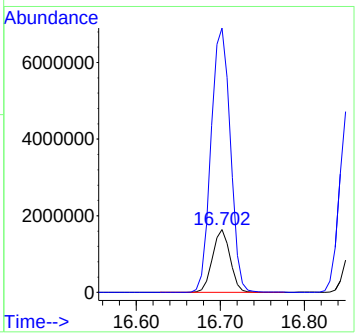


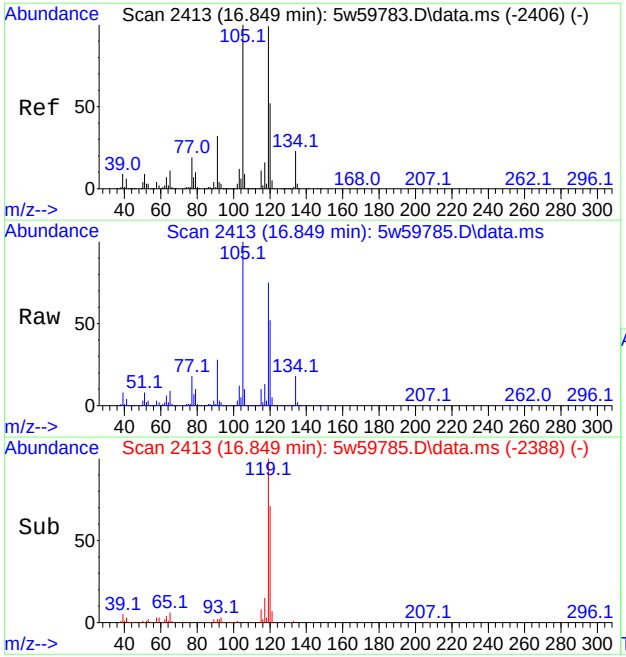


#100
sec-BUTYLBENZENE
Concen: 37.89 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2382473

Ion	Ratio	Lower	Upper
134	100		
105	462.5	502.5	562.5#

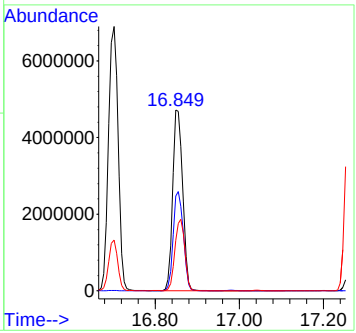


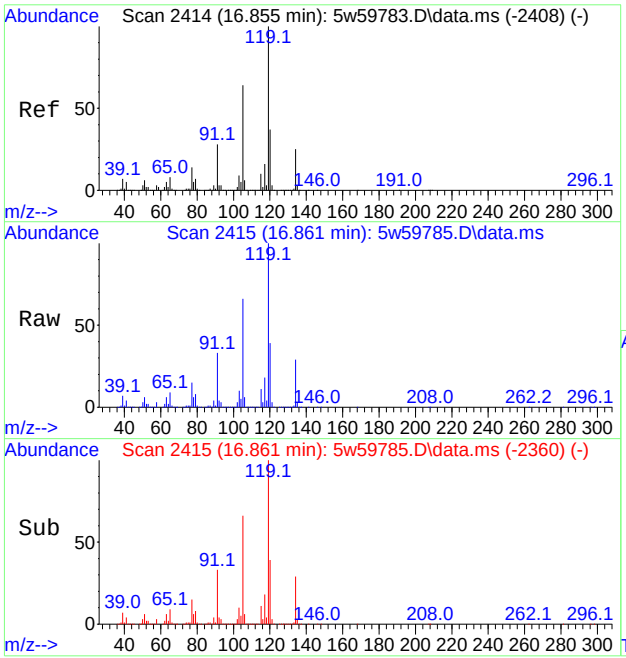


#101
1,2,3-TRIMETHYLBENZENE
Concen: 32.09 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7842082

Ion	Ratio	Lower	Upper
105	100		
120	55.3	23.5	83.5
91	38.9	7.4	67.4

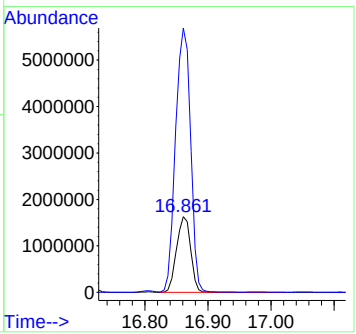


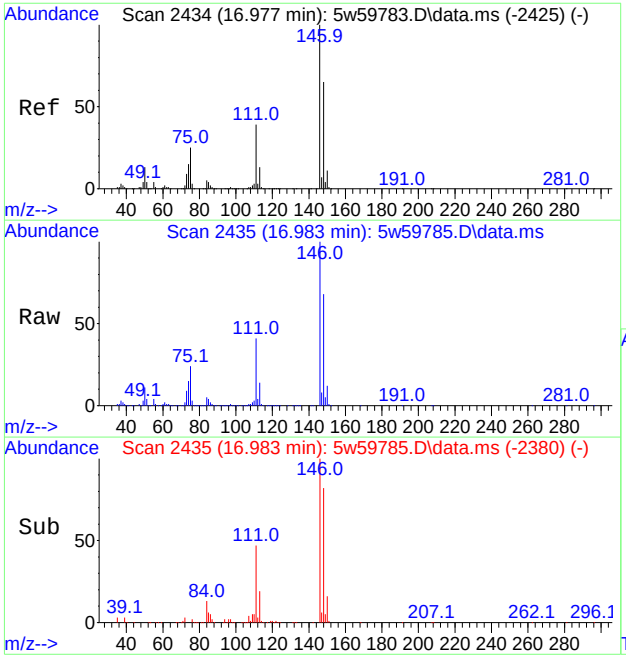


#102
p-ISOPROPYLTOLUENE
Concen: 35.07 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2537472

Ion	Ratio	Lower	Upper
134	100		
119	372.6	377.7	437.7#

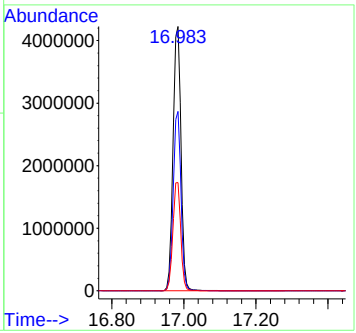


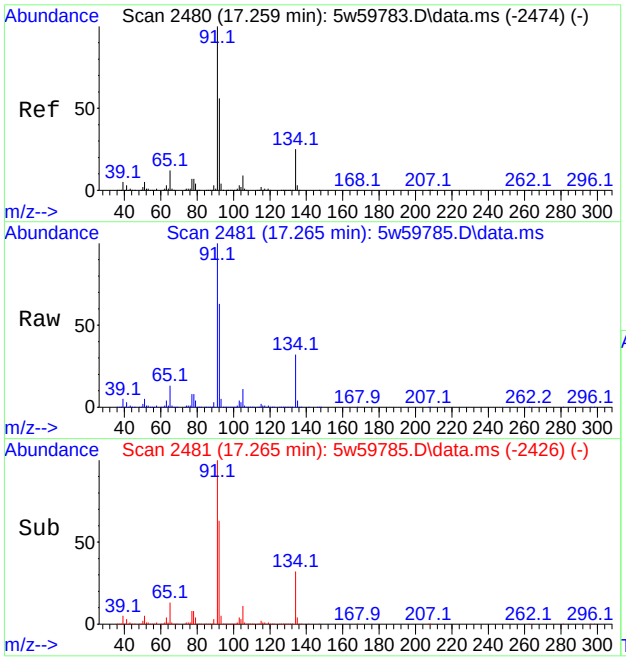


#103
o-DICHLOROBENZENE
Concen: 34.67 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6444852

Ion	Ratio	Lower	Upper
146	100		
148	66.3	34.3	94.3
111	40.6	9.2	69.2

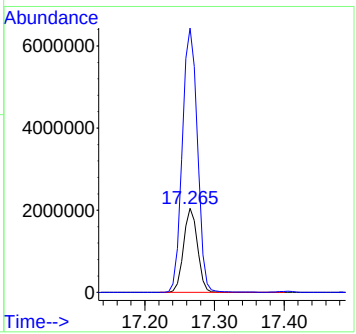


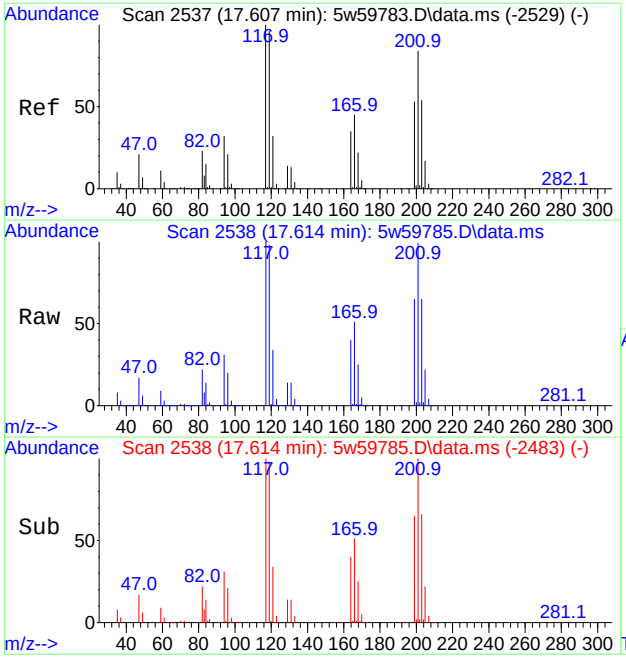


#104
n-BUTYLBENZENE
Concen: 43.05 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2846318

Ion	Ratio	Lower	Upper
134	100		
91	341.3	363.1	423.1#

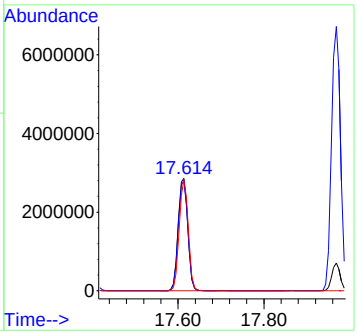


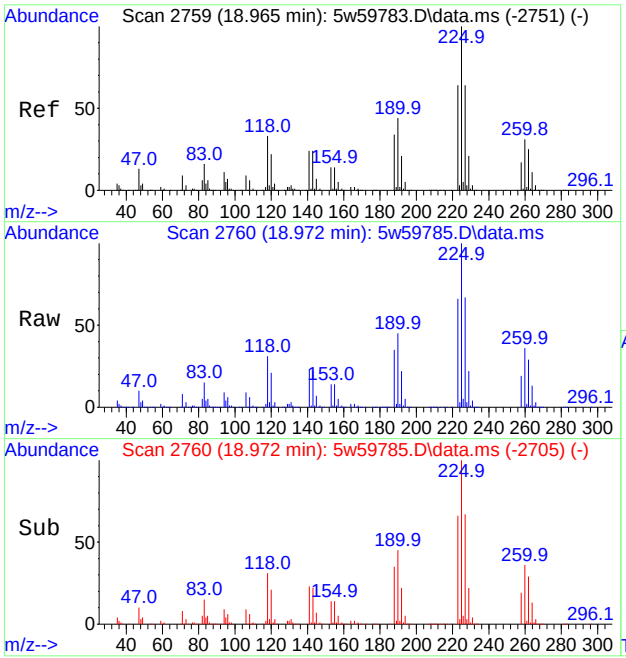


#105
HEXACHLOROETHANE
Concen: 36.00 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4455103

Ion	Ratio	Lower	Upper
117	100		
119	96.9	67.2	124.8
201	93.1	61.1	113.5

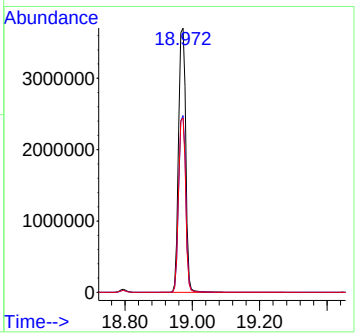


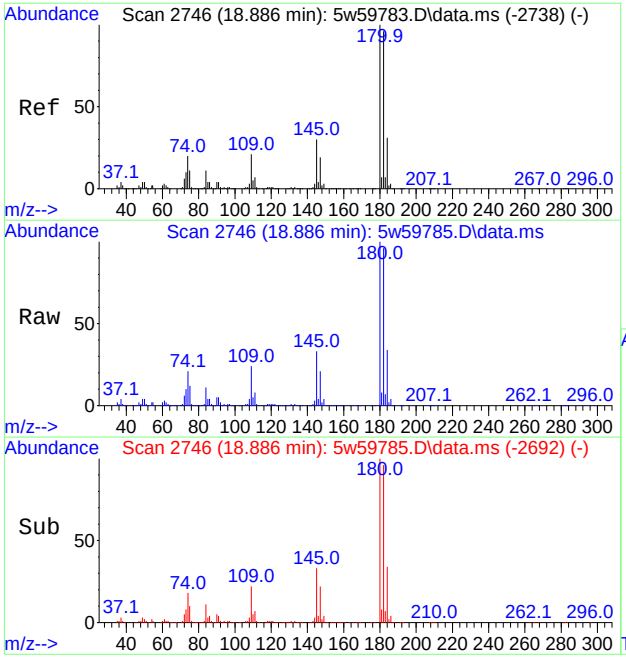


#106
HEXACHLOROBUTADIENE
Concen: 28.29 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:225 Resp: 5455879

Ion	Ratio	Lower	Upper
225	100		
227	65.9	34.2	94.2
223	65.2	33.3	93.3

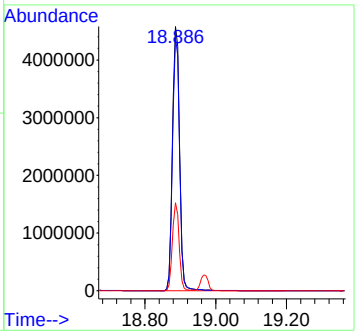


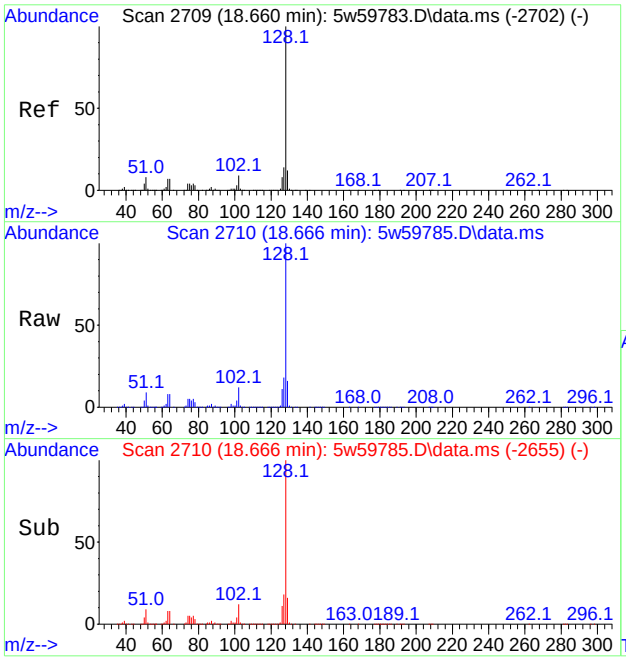


#107
1,2,4-TRICHLOROBENZENE
Concen: 48.55 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:180 Resp: 6383531

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	31.5	0.0	59.4

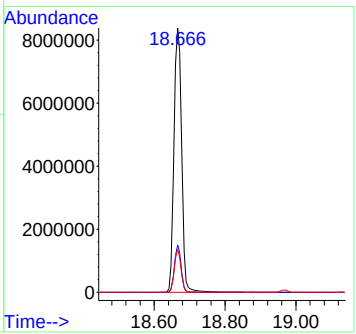


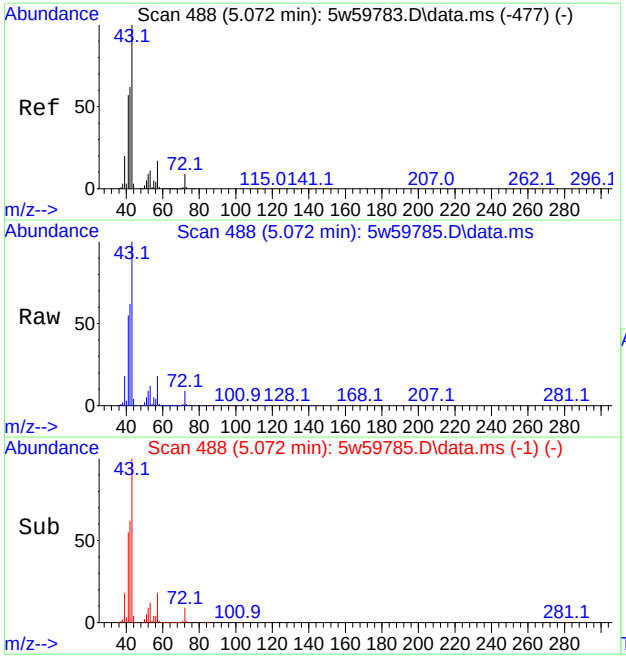


#108
NAPHTHALENE
Concen: 41.10 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:128 Resp:12695949

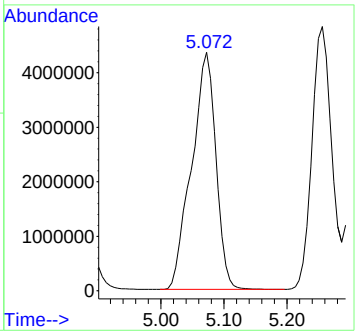
Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	43.3
129	14.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 33.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:TIC Resp:11631459



Manual Integration Approval Summary

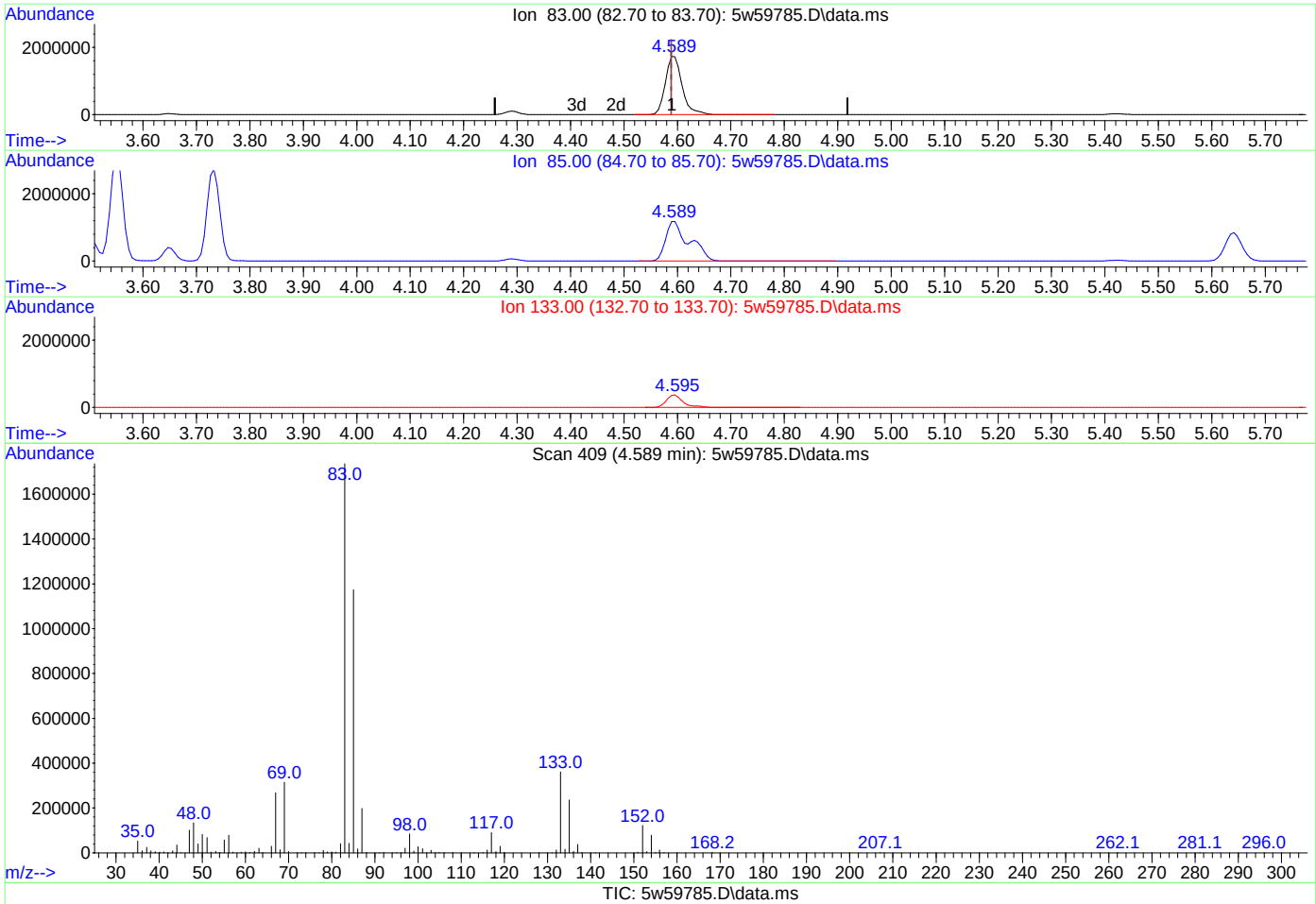
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59785.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:54 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV

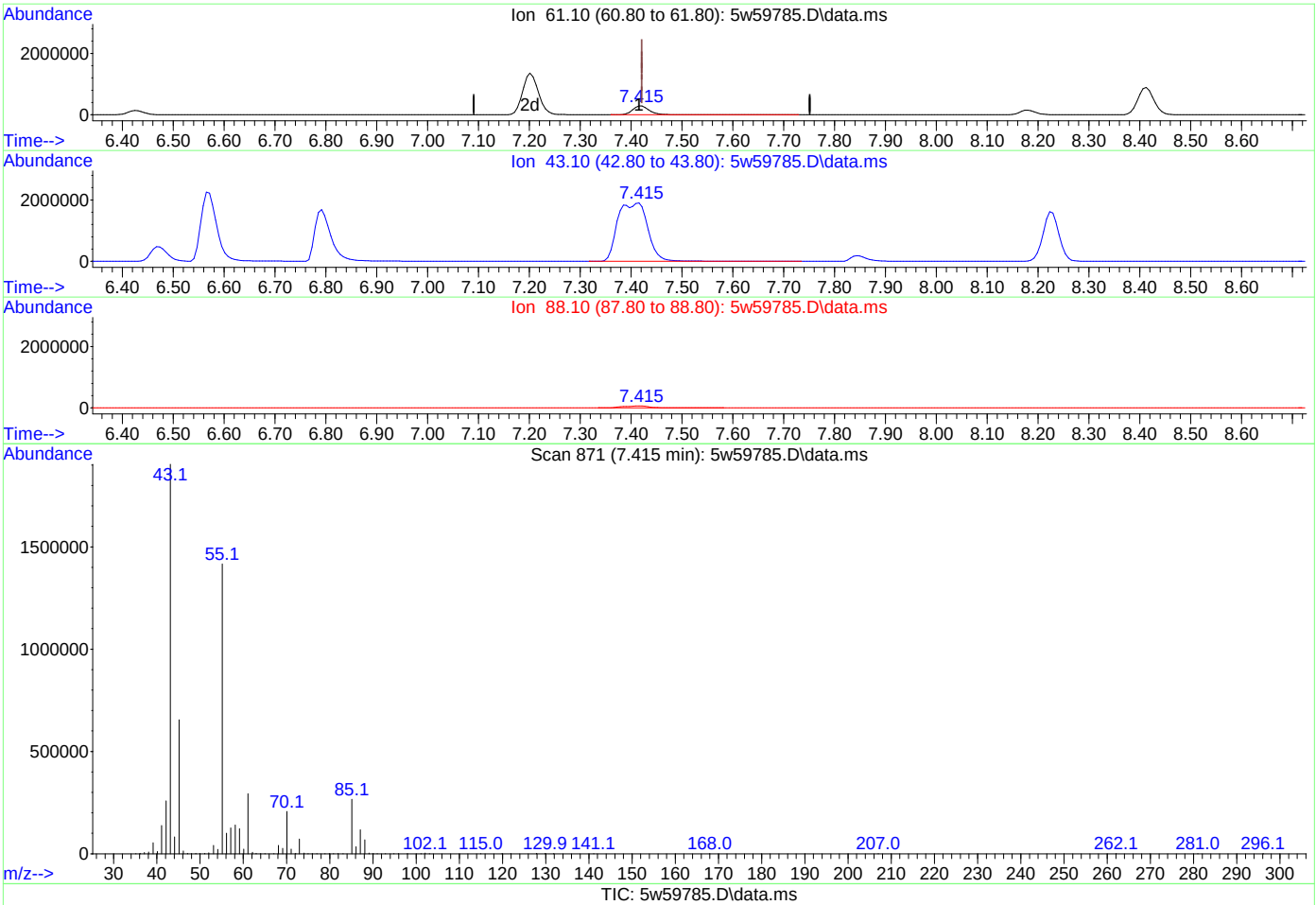
response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.18#
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV

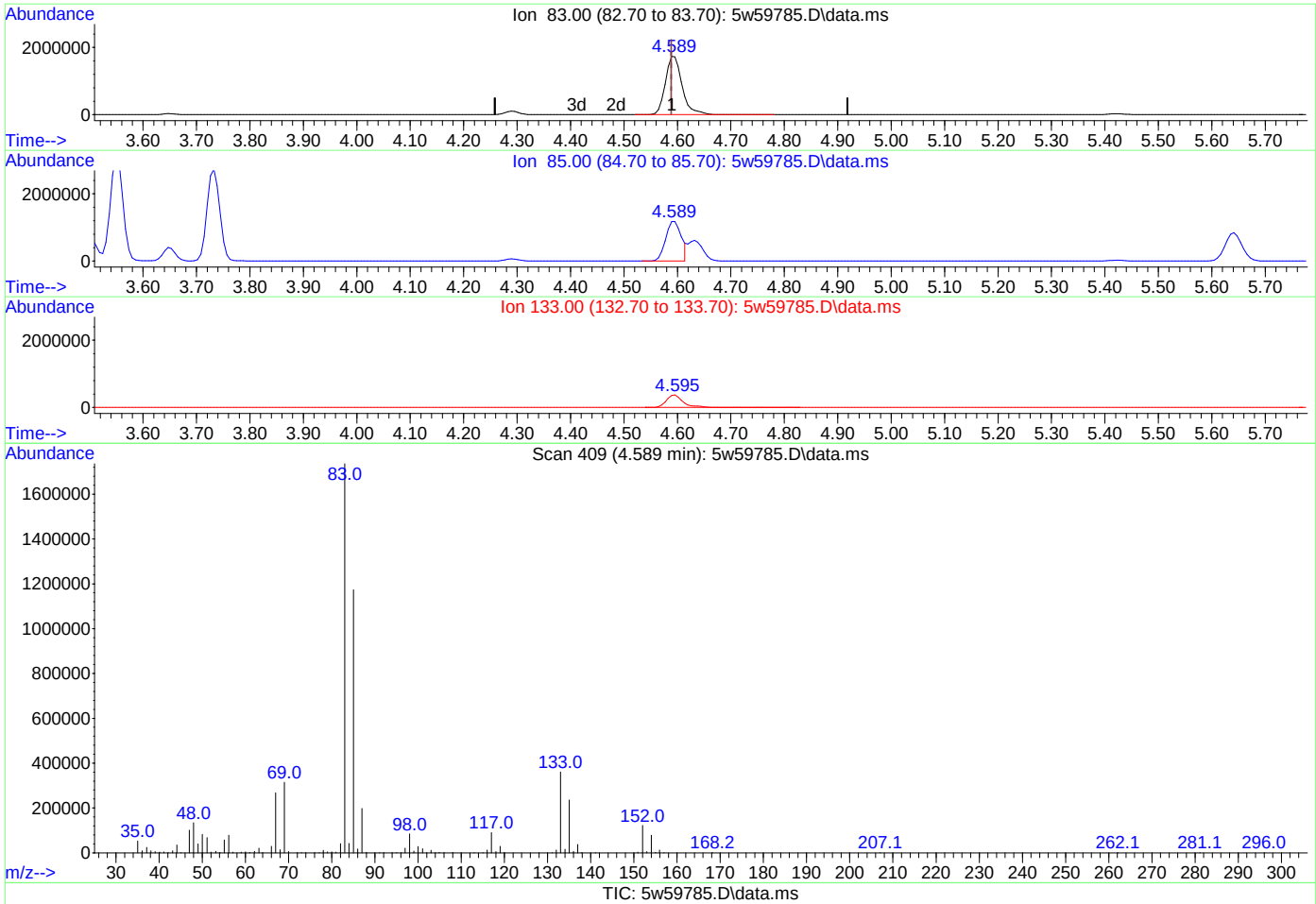
response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1167.91#
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV m

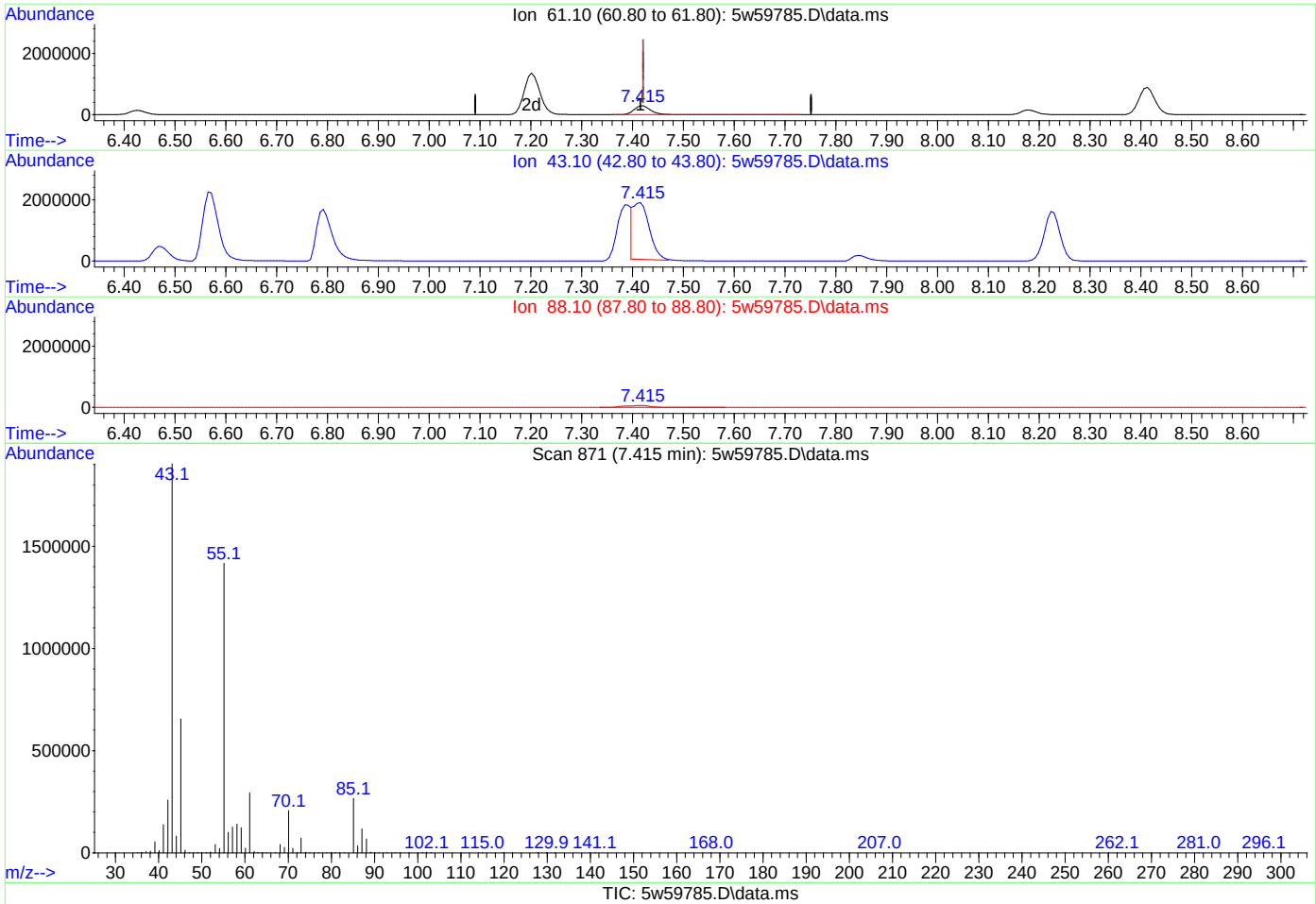
response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.60
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV m

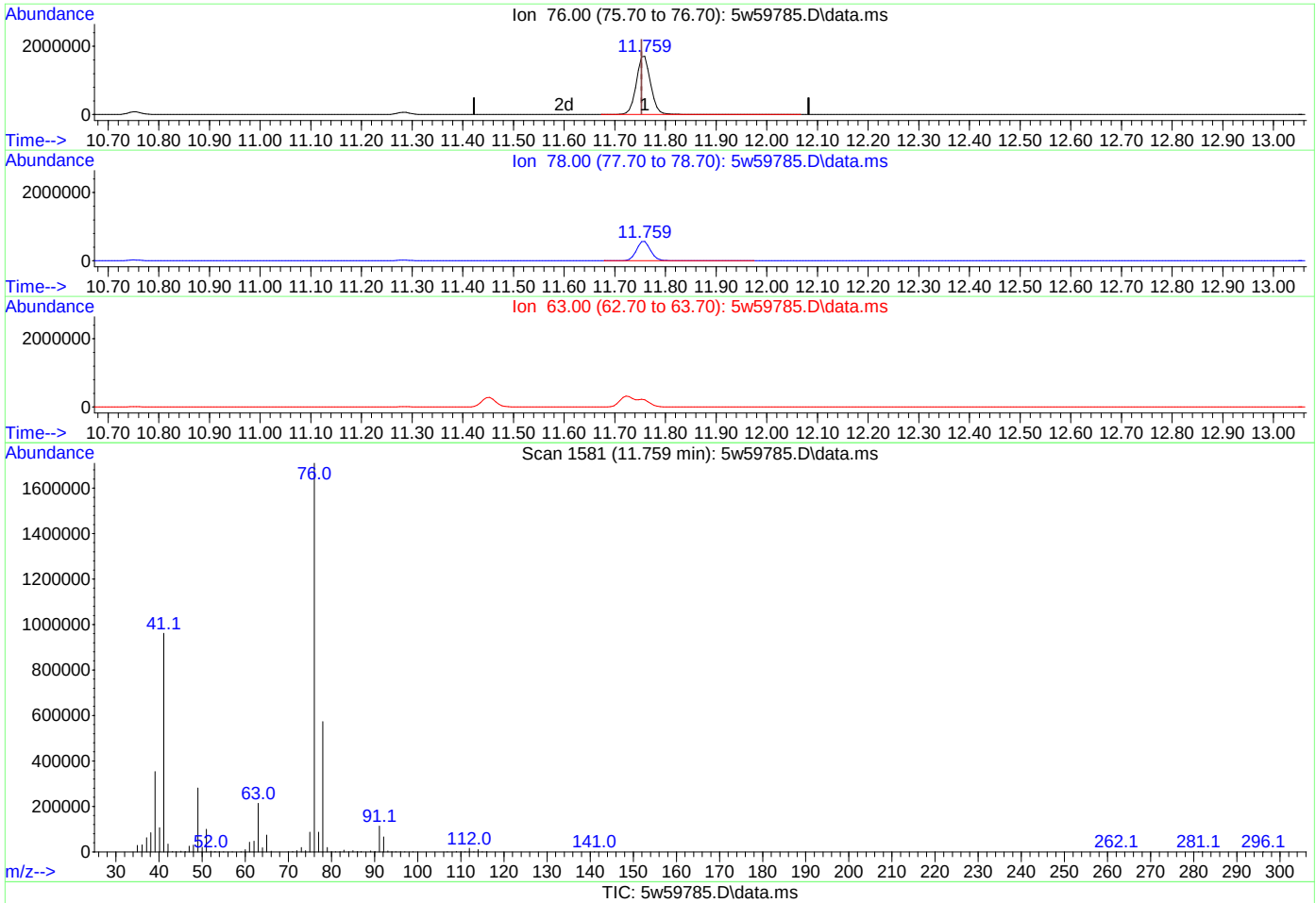
response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	592.51
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV

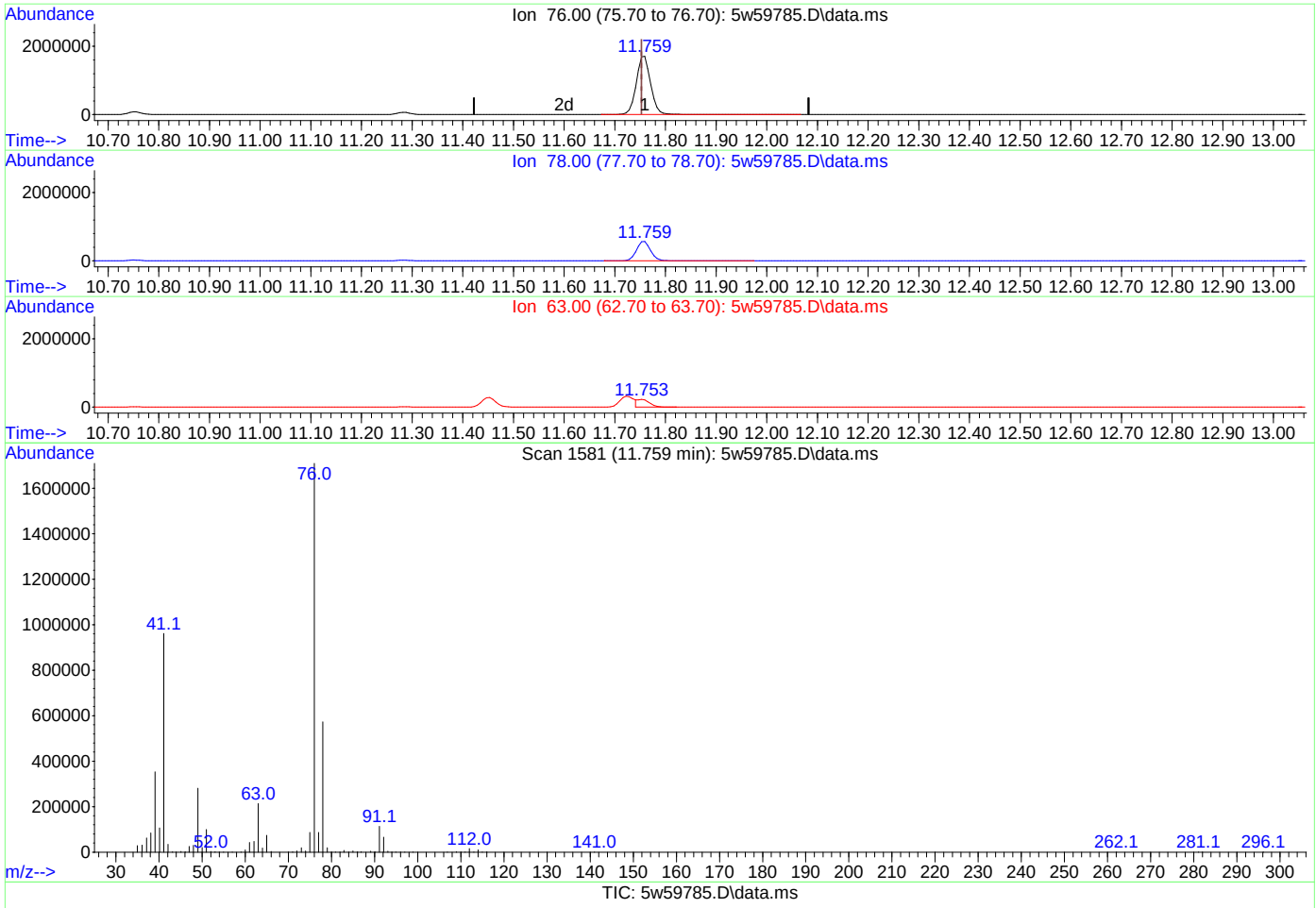
response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV m

response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	11.06
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.360	128	467162	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1929313	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1280918	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	467697	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.160	95	1403075	8.83	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 88.30%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	512492	7.63	PPBV		99
3) FREON 152A	3.445	65	1696184	36.17	PPBV		95
4) CHLORODIFLUOROMETHANE	3.475	67	765807	35.25	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.500	116	3809315	35.53	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	6454003	31.33	PPBV		97
7) PROPYLENE	3.494	41	1647441	32.49	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	4644392	27.21	PPBV		99
9) FREON 114	3.726	85	5332552	28.55	PPBV		96
10) CHLOROMETHANE	3.659	52	593159	28.33	PPBV		99
11) VINYL CHLORIDE	3.812	62	2006744	28.44	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1201486	27.81	PPBV		98
13) n-BUTANE	3.940	43	1865429	24.94	PPBV		98
14) BROMOMETHANE	4.099	94	2201552	30.01	PPBV		100
15) CHLOROETHANE	4.222	64	910647	29.04	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	4344933	28.26	PPBV		99
17) ACETONITRILE	4.479	41	1047676	24.43	PPBV		99
18) ACROLEIN	4.564	56	630972	24.71	PPBV		96
19) FREON 123	4.589	83	4570353m	27.57	PPBV		
20) FREON 123A	4.632	117	2921341	29.40	PPBV		93
21) TRICHLOROFLUOROMETHANE	4.791	101	5263086	26.51	PPBV		99
22) ISOPROPYL ALCOHOL	4.870	45	3712437	25.25	PPBV		100
23) ACETONE	4.668	58	738868	25.68	PPBV		96
24) PENTANE	5.072	42	2159289	29.26	PPBV		97
25) IODOMETHANE	5.250	142	7543155	35.46	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2443503	33.22	PPBV		95
27) CARBON DISULFIDE	5.672	76	6480951	33.10	PPBV		98
28) ETHANOL	4.320	45	668282	25.13	PPBV		99
29) BROMOETHENE	4.479	106	2216899	32.02	PPBV		100
30) ACRYLONITRILE	5.042	52	1601584	34.08	PPBV		99
31) METHYLENE CHLORIDE	5.421	84	2117266	32.13	PPBV		96
32) 3-CHLOROPROPENE	5.519	76	1102190	35.87	PPBV		90
33) FREON 113	5.641	151	4335347	33.71	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2566855	33.70	PPBV		97
35) TERTIARY BUTYL ALCOHOL	5.372	59	4270952	27.79	PPBV		99
36) METHYL TERTIARY BUTYL ...	6.467	73	6337595	33.80	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1023793	37.42	PPBV		97
38) HEXANE	7.379	57	3623516	34.89	PPBV		91
39) VINYL ACETATE	6.571	86	477066	39.37	PPBV	#	79
40) 1,1-DICHLOROETHANE	6.424	63	4545260	33.30	PPBV		99
41) METHYL ETHYL KETONE	6.791	72	1116320	39.33	PPBV	#	86
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2772689	35.23	PPBV		97
43) DIISOPROPYL ETHER	7.391	59	1134199	38.69	PPBV	#	77
44) ETHYL ACETATE	7.421	61	845012m	34.91	PPBV		
45) METHYL ACRYLATE	7.409	55	4442118	33.33	PPBV		96
46) CHLOROFORM	7.489	83	5265891	33.15	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.223	57	4372372	35.95	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	5674011	33.44	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	6150579	33.09	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	3745660	33.65	PPBV		99
52)	BENZENE	8.859	78	7354311	40.36	PPBV		99
53)	CYCLOHEXANE	9.110	84	2949070	40.67	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1522391	42.20	PPBV		93
55)	TRICHLOROETHYLENE	9.893	95	3632086	37.53	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	2868397	37.03	PPBV		99
57)	DIBROMOMETHANE	9.636	174	4006214	38.37	PPBV		98
58)	ETHYL ACRYLATE	9.685	55	5610538	37.54	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	6264555	37.04	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	10265949	34.27	PPBV		97
61)	1,4-DIOXANE	9.893	88	1571741	39.31	PPBV	#	1
62)	HEPTANE	10.193	43	3734901	36.15	PPBV		94
63)	METHYL METHACRYLATE	10.107	69	2494133	41.16	PPBV		96
64)	METHYL ISOBUTYL KETONE	10.786	58	2440543	38.84	PPBV		90
65)	cis-1,3-DICHLOROPROPENE	10.756	75	5041121	41.46	PPBV		91
66)	TOLUENE	11.722	92	5480196	41.16	PPBV		95
67)	1,3-DICHLOROPROPANE	11.759	76	4271872m	38.74	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	4565890	40.93	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.453	83	3077034	42.06	PPBV		100
71)	2-HEXANONE	12.010	58	3450029	32.66	PPBV		89
72)	ETHYL METHACRYLATE	12.028	69	4427593	33.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	4203511	31.36	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	7029117	30.46	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	5931699	33.98	PPBV		100
76)	OCTANE	12.750	43	5161401	28.88	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	4713028	31.92	PPBV		99
78)	CHLOROBENZENE	13.588	112	7439915	30.47	PPBV		99
79)	ETHYLBENZENE	13.992	91	11379916	31.54	PPBV		95
80)	m,p-XYLENE	14.194	106	9117454	65.12	PPBV		89
81)	o-XYLENE	14.689	106	4240336	32.29	PPBV		94
82)	STYRENE	14.573	104	7405410	37.26	PPBV		99
83)	NONANE	14.940	43	4961142	27.57	PPBV		91
84)	BROMOFORM	14.261	173	7504388	32.02	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	6869258	29.32	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	5400423	29.33	PPBV		96
88)	ISOPROPYLBENZENE	15.301	105	11977220	28.72	PPBV		94
89)	BROMOBENZENE	15.381	77	6360723	29.55	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	3685448	32.56	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	3584454	31.94	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	11670979	30.19	PPBV		93
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	9865714	28.34	PPBV		95
94)	ALPHA-METHYLSTYRENE	16.200	118	5900787	33.71	PPBV		99
95)	tert-BUTYLBENZENE	16.433	134	2122779	28.46	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	8886934	26.06	PPBV		97
97)	m-DICHLOROBENZENE	16.592	146	7359121	27.06	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	9095992	28.12	PPBV		96
99)	p-DICHLOROBENZENE	16.653	146	7993903	28.96	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	2827725	30.67	PPBV	#	70
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9024748	24.94	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	2924462	27.10	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	7985671	29.61	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	3481921	34.55	PPBV	#	72
105)	HEXACHLOROETHANE	17.614	117	5208368	28.92	PPBV		96
106)	HEXACHLOROBUTADIENE	18.972	225	6236008	22.78	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	7600427	32.01	PPBV		99
108)	NAPHTHALENE	18.666	128	14205927	26.02	PPBV		91
110)	TVHC as equiv Pentane	5.066	TIC	14466620	31.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

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

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

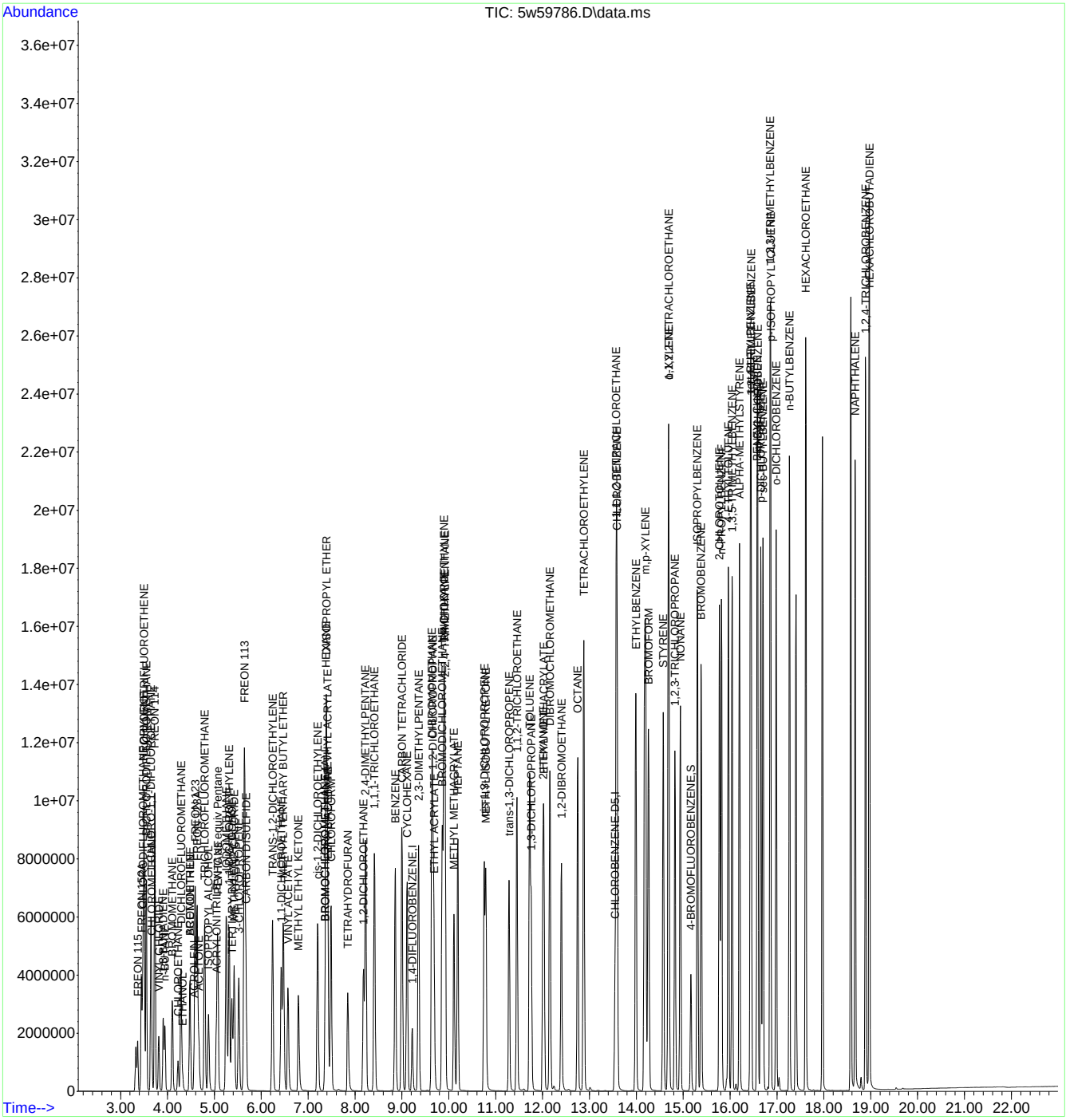
7.7.9

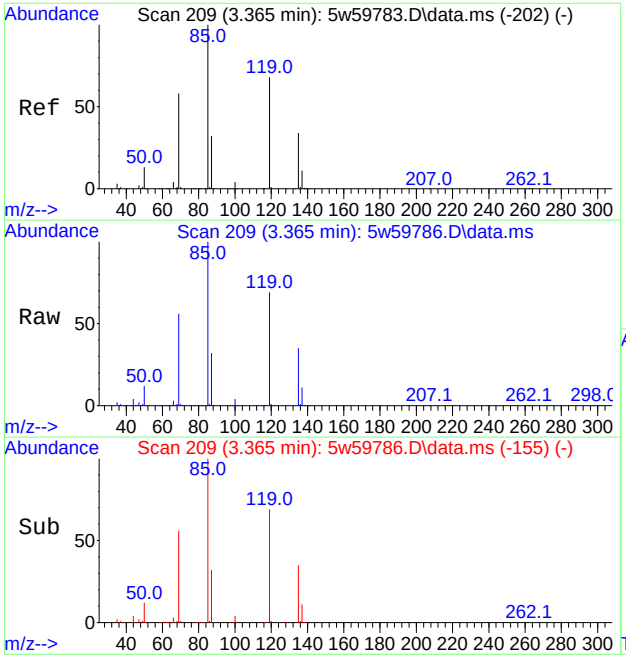
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

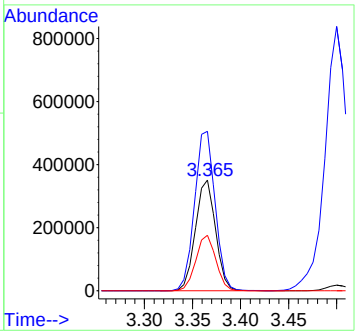


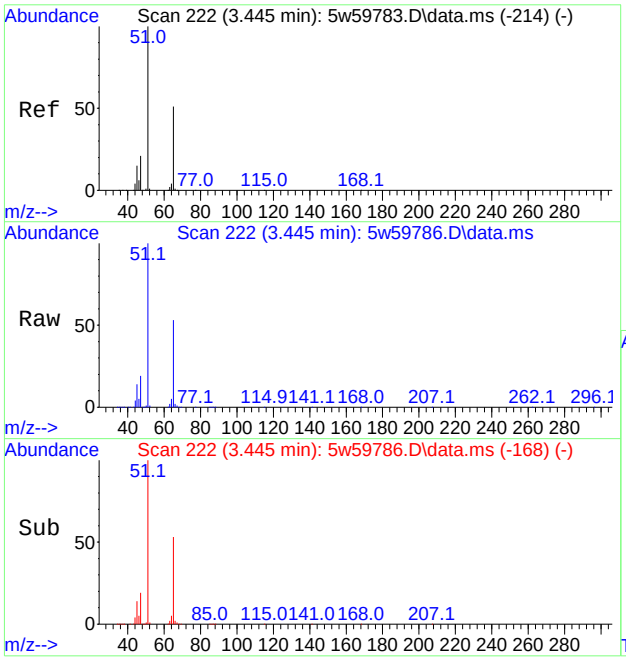


#2
FREON 115
Concen: 7.63 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:119 Resp: 512492

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.1	20.6	80.6

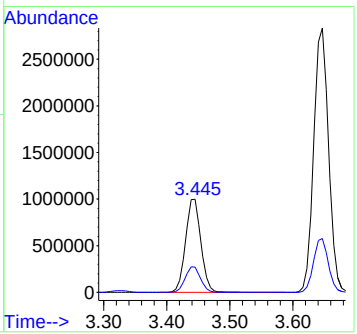


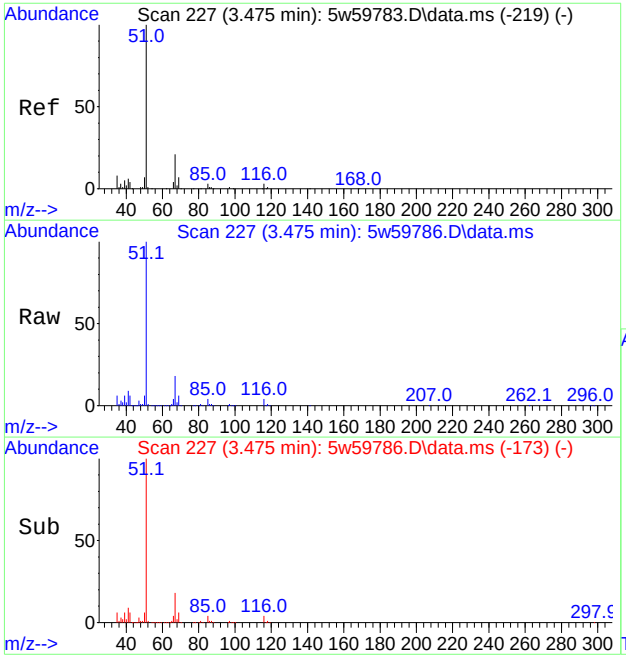


#3
FREON 152A
Concen: 36.17 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 1696184

Ion	Ratio	Lower	Upper
65	100		
45	27.4	0.0	60.0

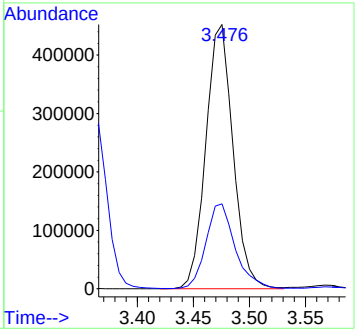


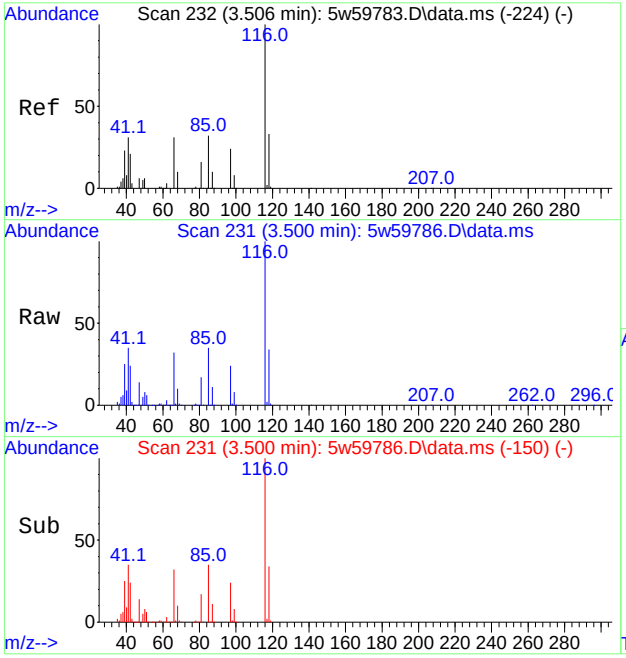


#4
CHLORODIFLUOROMETHANE
Concen: 35.25 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 765807

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

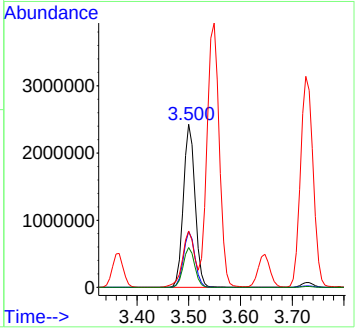


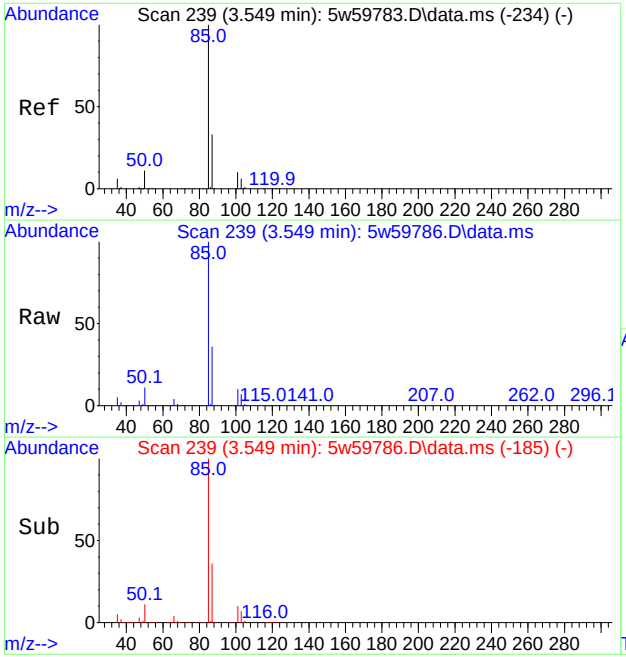


#5
CHLOROTRIFLUOROETHENE
Concen: 35.53 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:116 Resp: 3809315

Ion	Ratio	Lower	Upper
116	100		
118	33.7	22.9	42.5
85	36.0	23.7	44.1
97	24.2	17.0	31.6

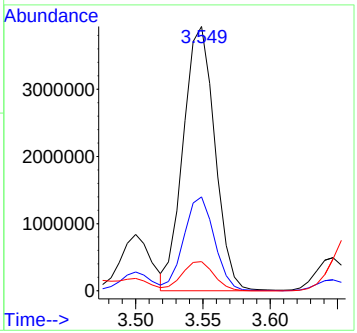


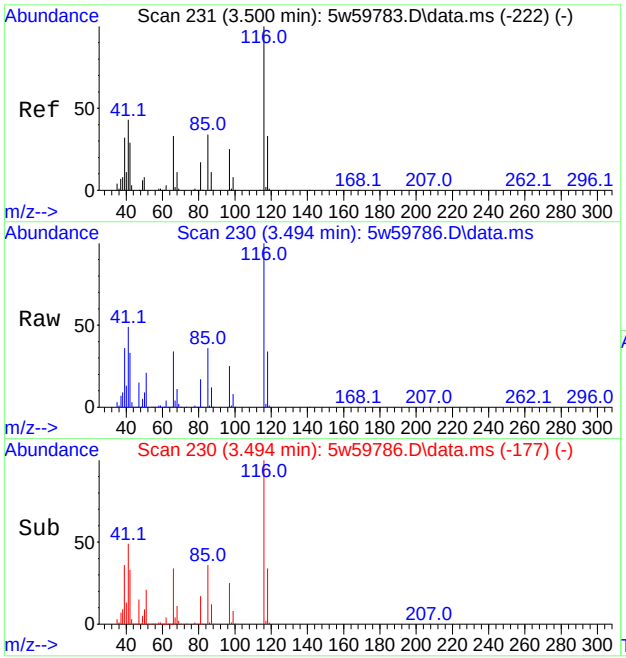


#6
DICHLORODIFLUOROMETHANE
Concen: 31.33 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 6454003

Ion	Ratio	Lower	Upper
85	100		
87	34.5	2.5	62.5
50	11.2	0.0	41.7

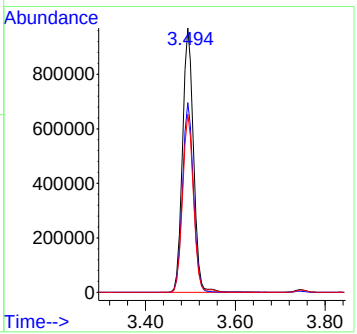


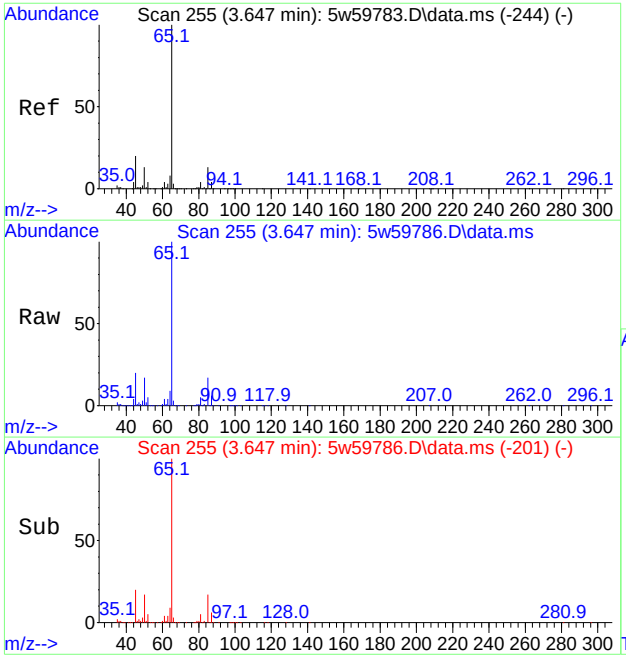


#7
PROPYLENE
Concen: 32.49 PPBV
RT: 3.494 min Scan# 230
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1647441

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.1	36.3	96.3

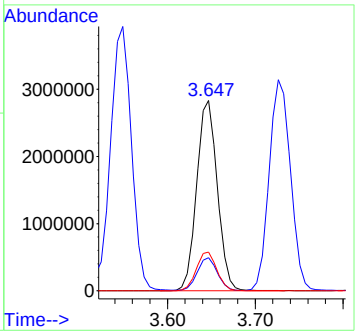


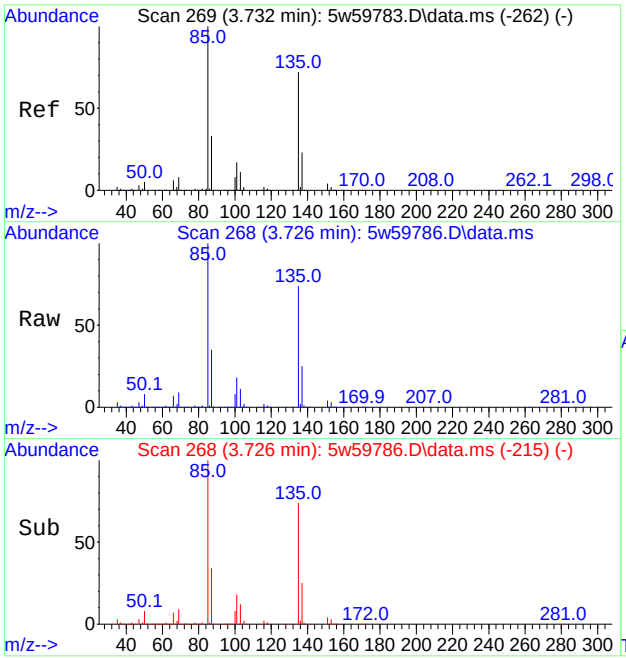


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 27.21 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 4644392

Ion	Ratio	Lower	Upper
65	100		
85	17.0	11.5	21.3
45	20.3	14.0	26.0

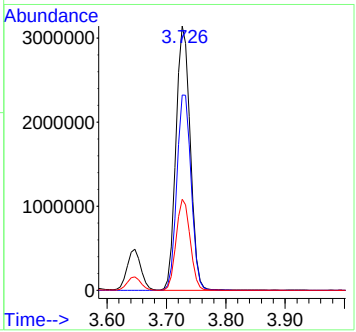


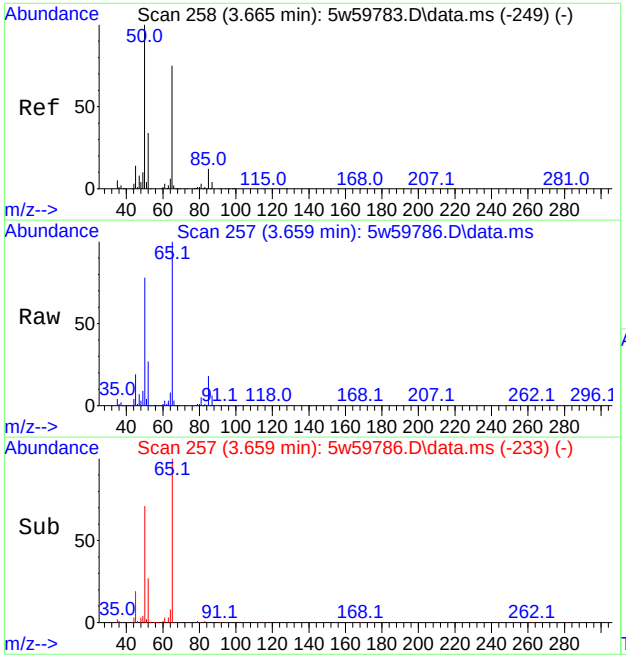


#9
FREON 114
Concen: 28.55 PPBV
RT: 3.726 min Scan# 268
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 5332552

Ion	Ratio	Lower	Upper
85	100		
135	74.3	40.5	100.5
87	33.9	3.0	63.0

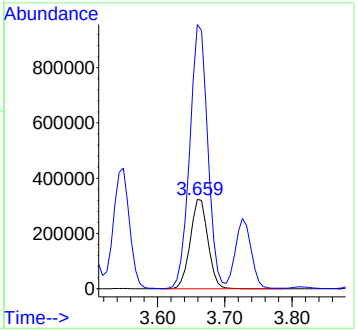


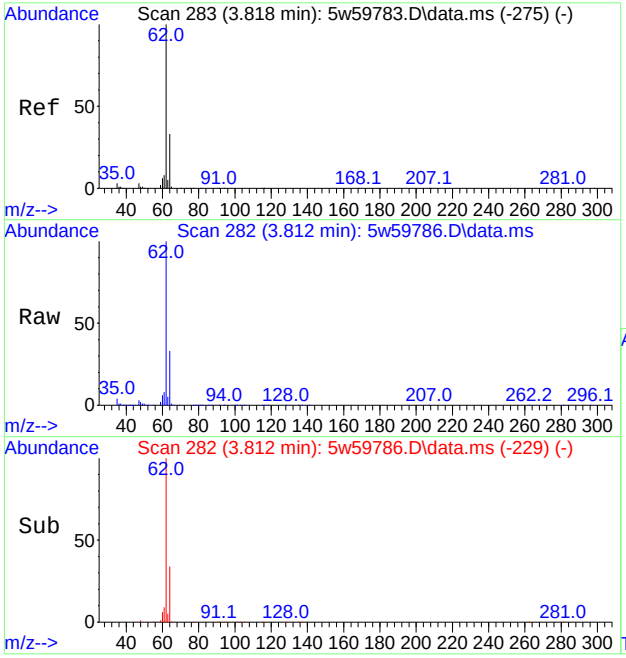


#10
CHLOROMETHANE
Concen: 28.33 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 593159

Ion	Ratio	Lower	Upper
52	100		
50	295.1	267.9	327.9

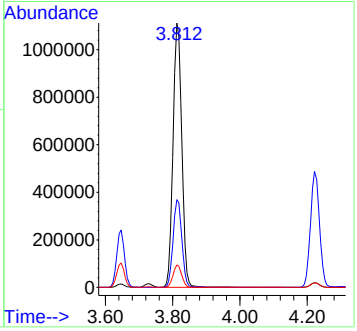


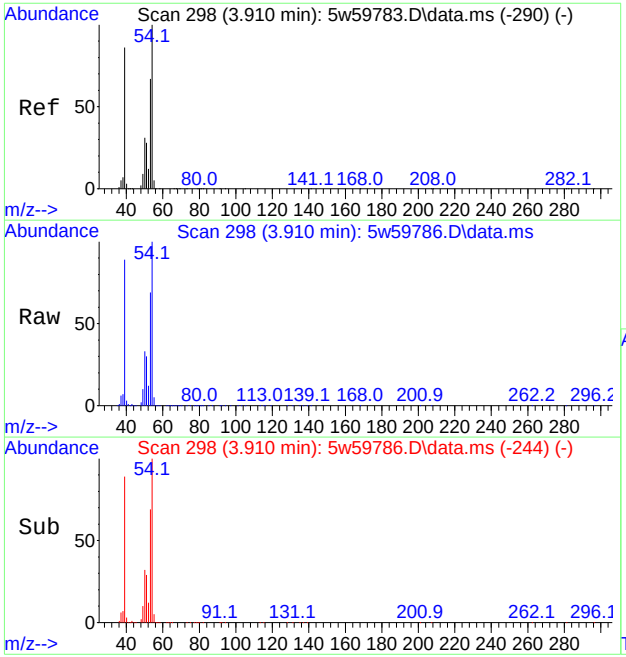


#11
VINYL CHLORIDE
Concen: 28.44 PPBV
RT: 3.812 min Scan# 282
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 2006744

Ion	Ratio	Lower	Upper
62	100		
64	33.3	3.6	63.6
61	8.4	0.0	38.2

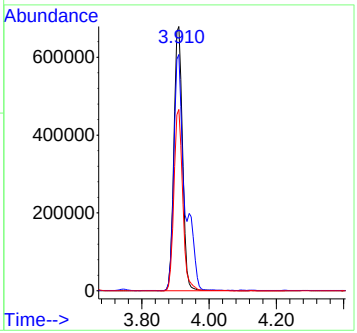


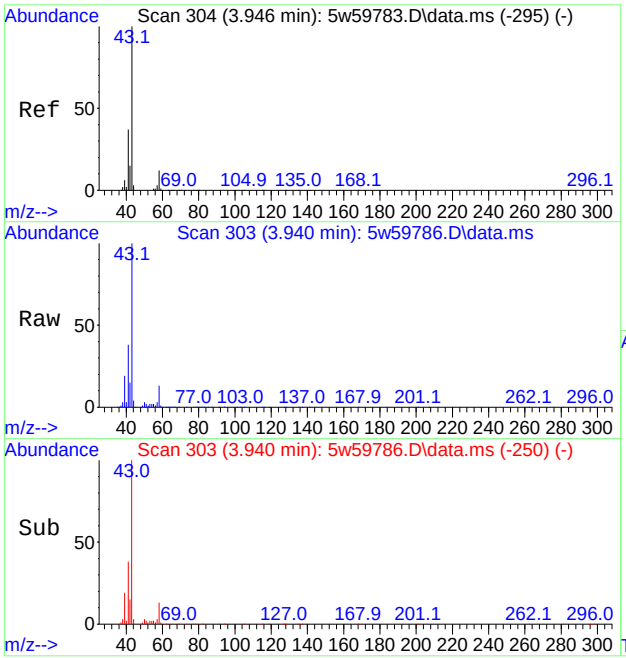


#12
1,3-BUTADIENE
Concen: 27.81 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 54 Resp: 1201486

Ion	Ratio	Lower	Upper
54	100		
39	114.6	82.0	142.0
53	70.5	40.2	100.2

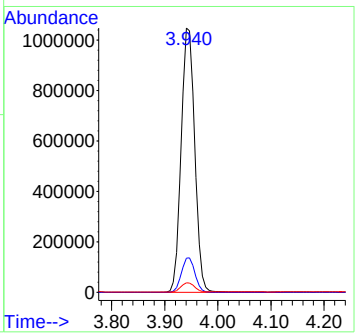


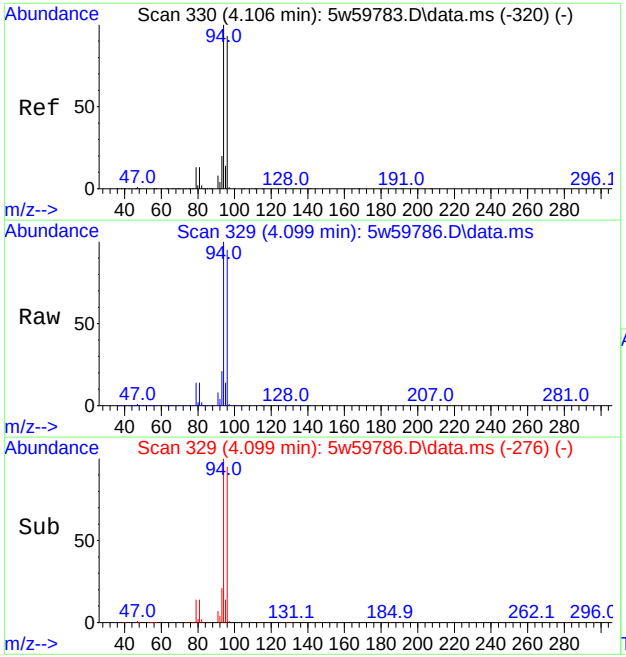


#13
n-BUTANE
Concen: 24.94 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 1865429

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.8	0.0	34.9

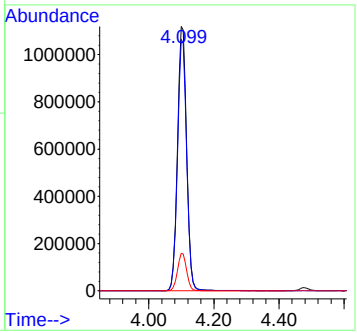


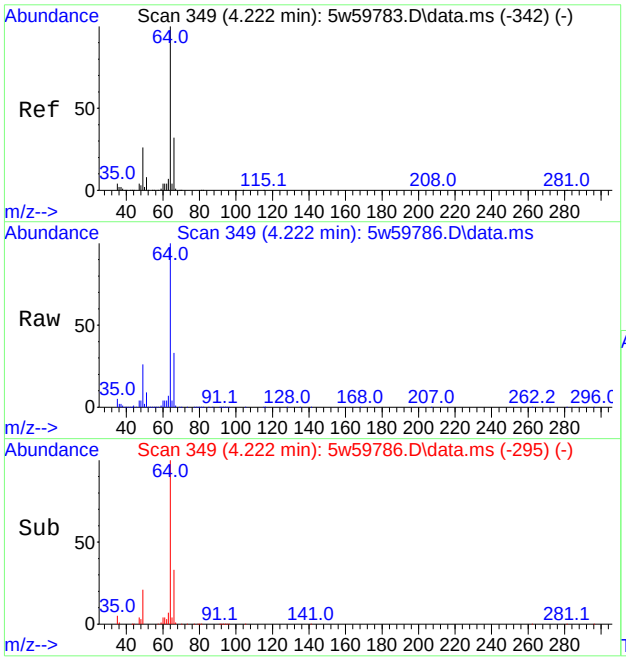


#14
BROMOMETHANE
Concen: 30.01 PPBV
RT: 4.099 min Scan# 329
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 94 Resp: 2201552

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

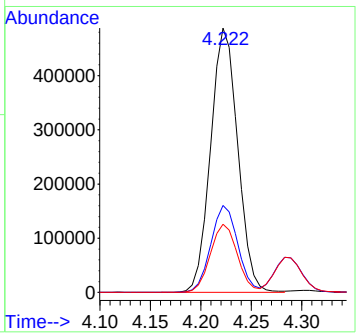


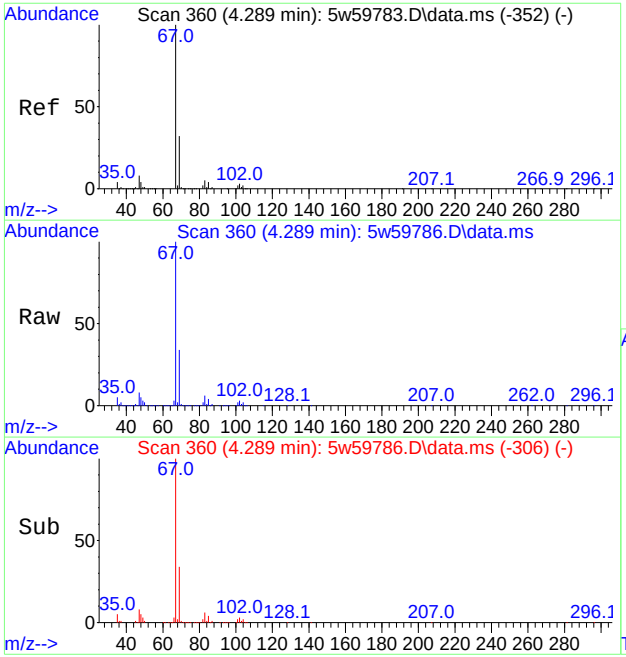


#15
CHLOROETHANE
Concen: 29.04 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 64 Resp: 910647

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

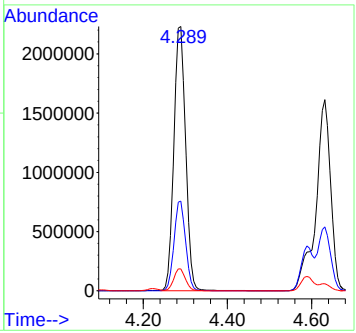


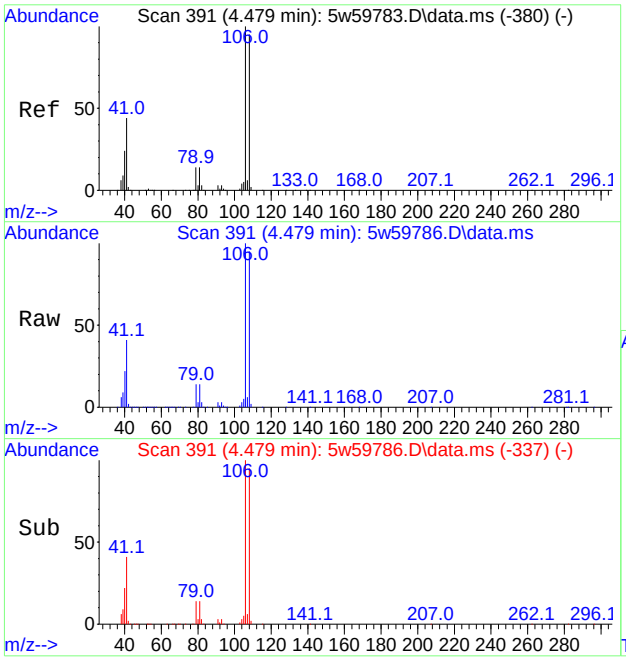


#16
DICHLOROFLUOROMETHANE
Concen: 28.26 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 4344933

Ion	Ratio	Lower	Upper
67	100		
69	33.4	22.7	42.3
47	8.3	5.6	10.4

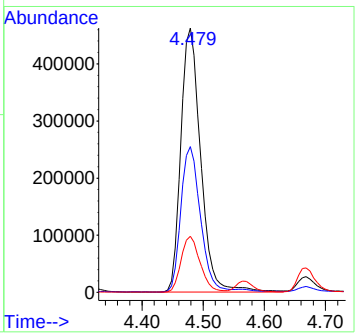


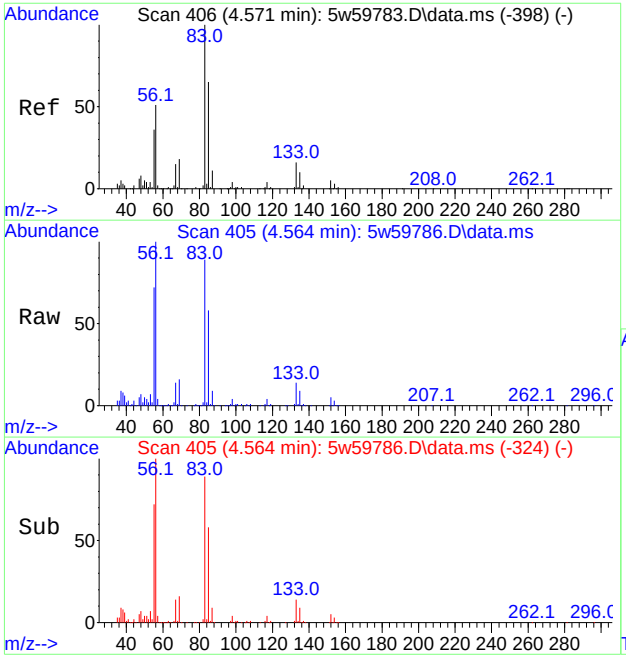


#17
ACETONITRILE
Concen: 24.43 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1047676

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

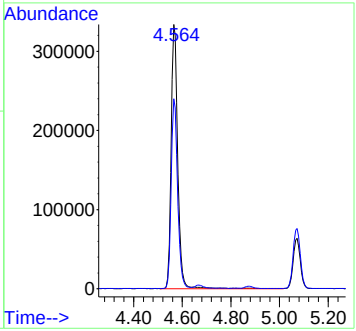


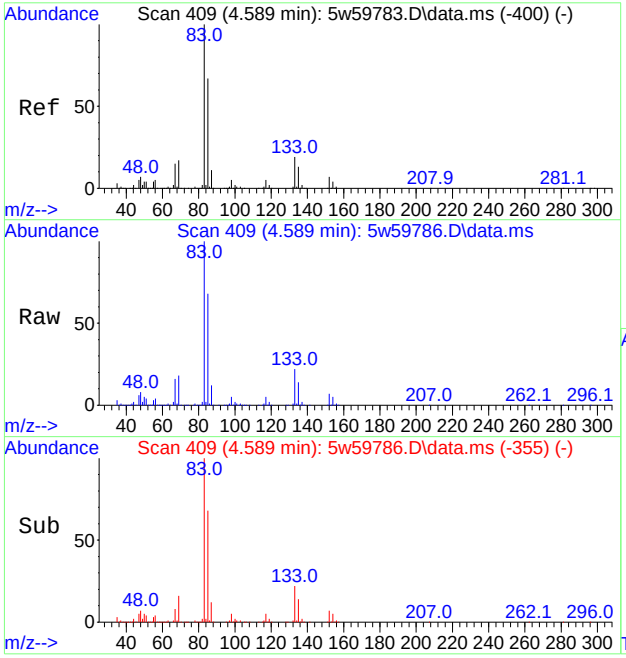


#18
ACROLEIN
Concen: 24.71 PPBV
RT: 4.564 min Scan# 405
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 56 Resp: 630972

Ion	Ratio	Lower	Upper
56	100		
55	70.2	46.6	86.6

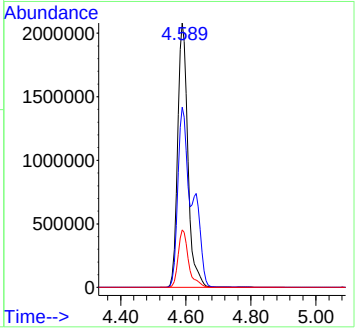


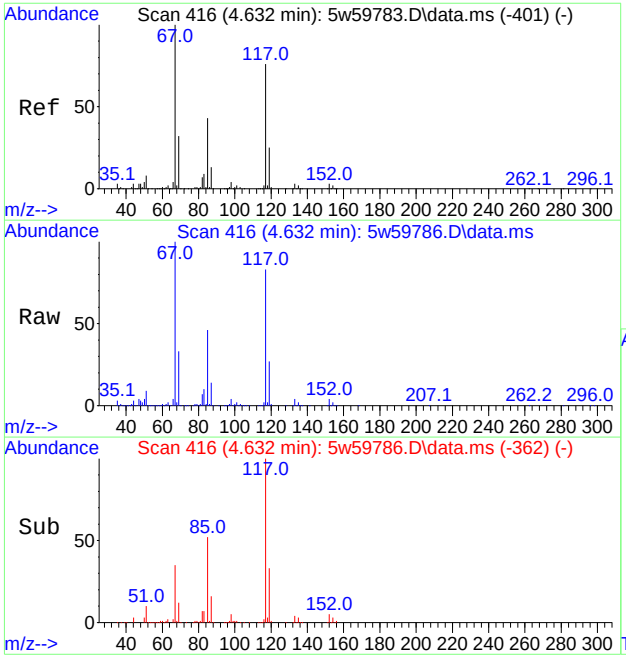


#19
FREON 123
Concen: 27.57 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 4570353

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	22.3	0.0	50.7

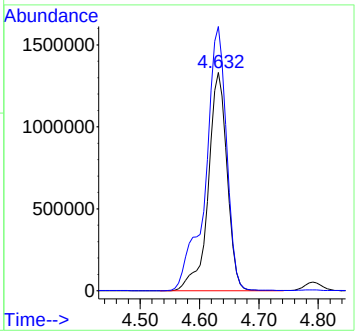


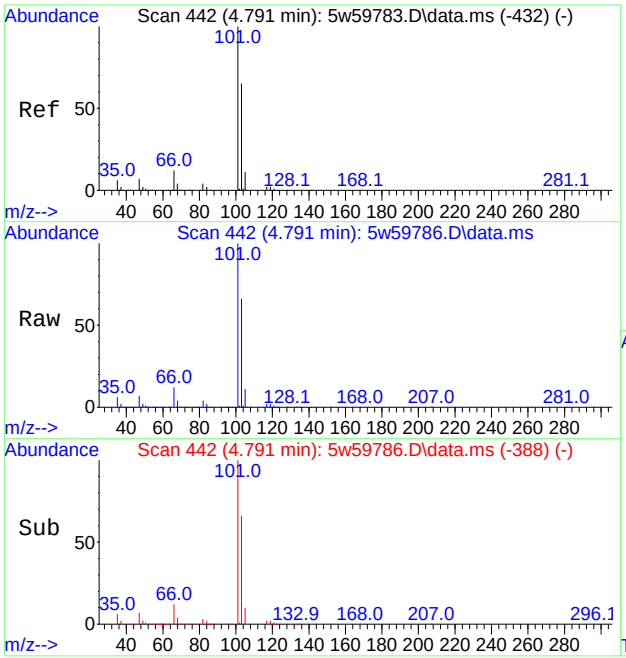


#20
FREON 123A
Concen: 29.40 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 2921341

Ion	Ratio	Lower	Upper
117	100		
67	135.7	114.6	174.6

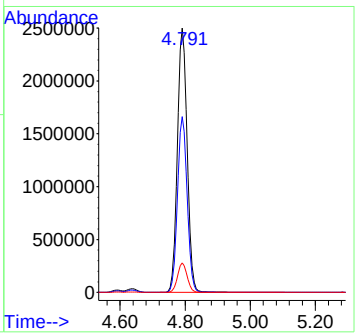


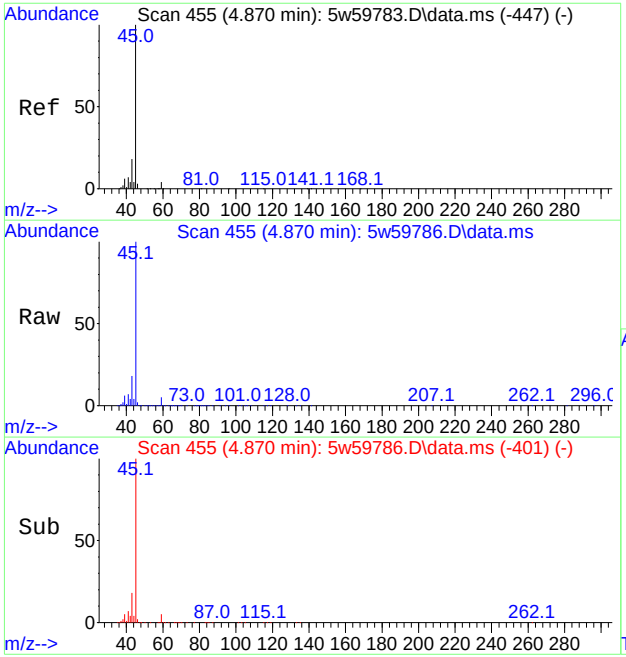


#21
TRICHLOROFLUOROMETHANE
Concen: 26.51 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:101 Resp: 5263086

Ion	Ratio	Lower	Upper
101	100		
103	65.9	35.0	95.0
105	11.0	0.0	40.7

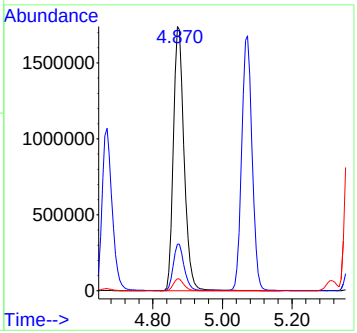


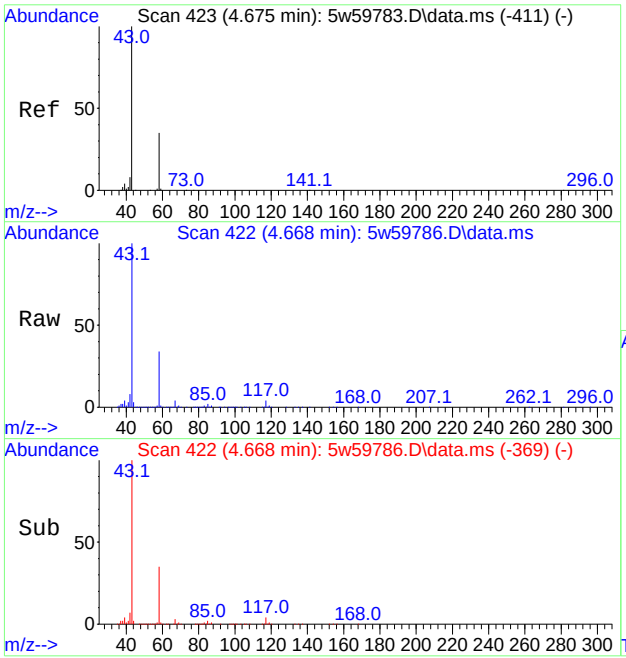


#22
ISOPROPYL ALCOHOL
Concen: 25.25 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 3712437

Ion	Ratio	Lower	Upper
45	100		
43	17.7	0.0	47.8
59	4.6	0.0	34.1

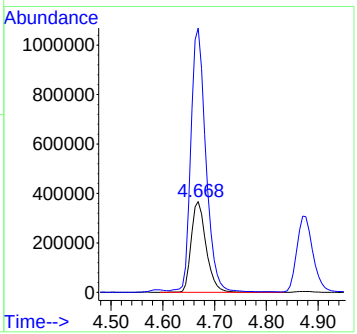


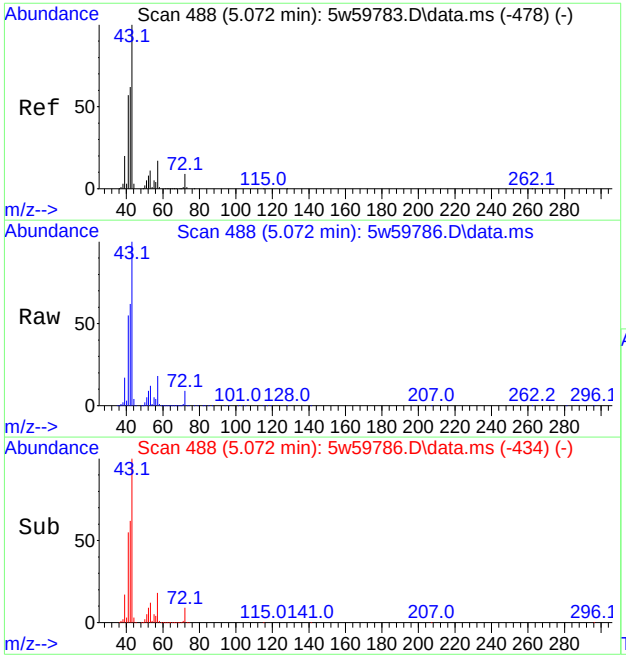


#23
ACETONE
Concen: 25.68 PPBV
RT: 4.668 min Scan# 422
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 738868

Ion	Ratio	Lower	Upper
58	100		
43	289.9	252.3	312.3

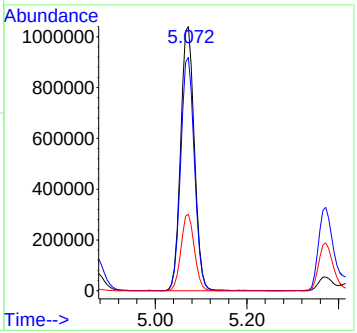


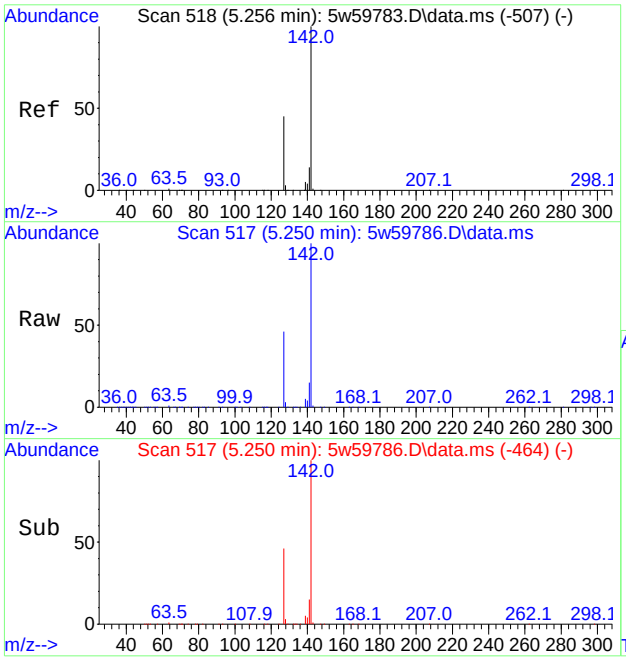


#24
PENTANE
Concen: 29.26 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 42 Resp: 2159289

Ion	Ratio	Lower	Upper
42	100		
41	88.6	62.3	122.3
57	28.5	0.0	57.7

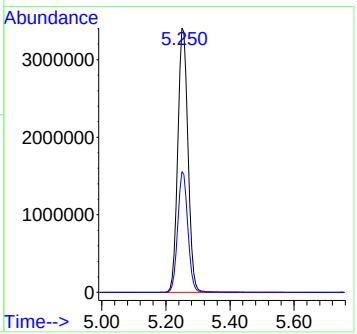


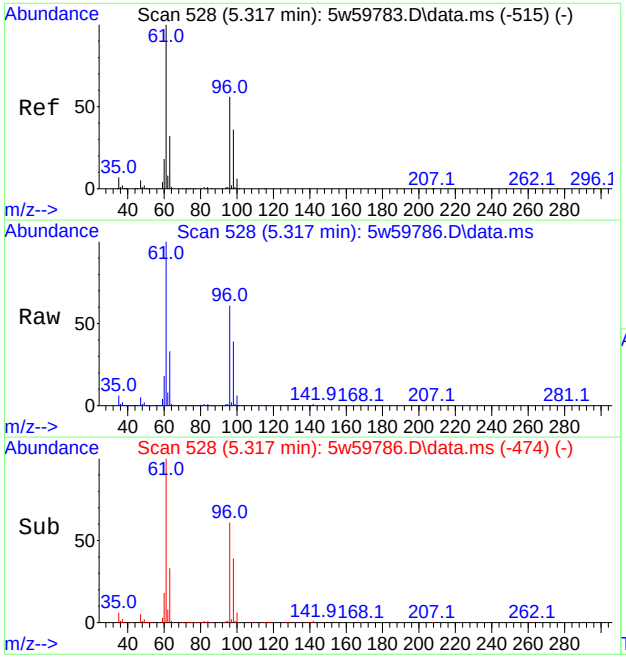


#25
IODOMETHANE
Concen: 35.46 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:142 Resp: 7543155

Ion	Ratio	Lower	Upper
142	100		
127	45.2	16.0	76.0

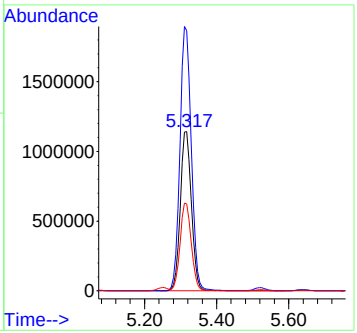


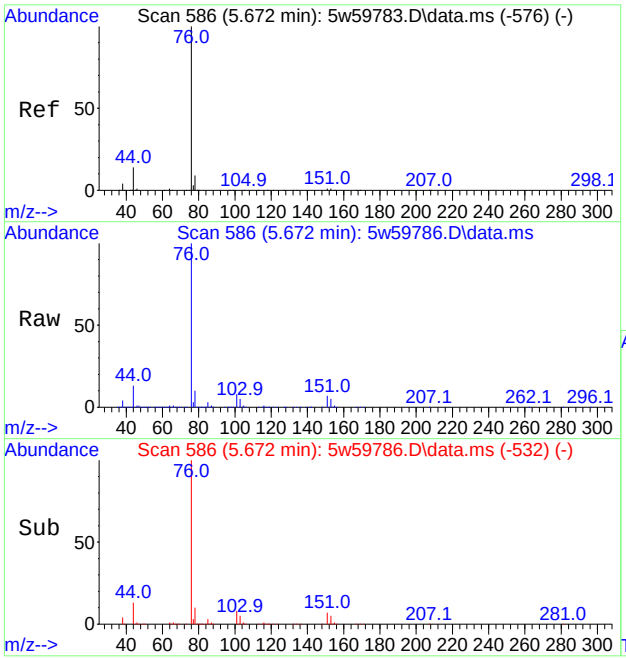


#26
1,1-DICHLOROETHYLENE
Concen: 33.22 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2443503

Ion	Ratio	Lower	Upper
96	100		
61	169.6	148.5	208.5
63	55.5	27.4	87.4

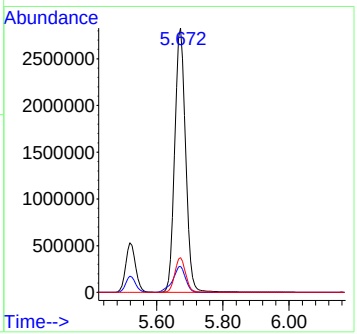


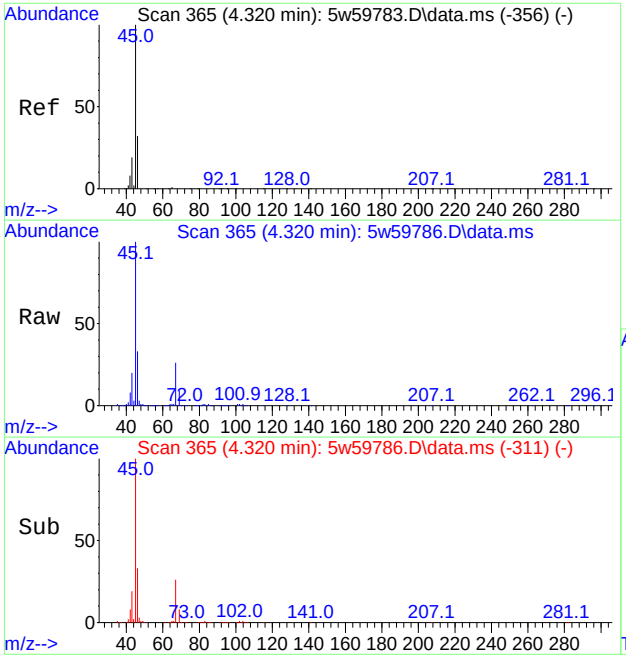


#27
CARBON DISULFIDE
Concen: 33.10 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 6480951

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.1	0.0	44.6

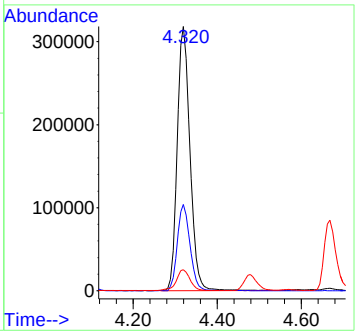


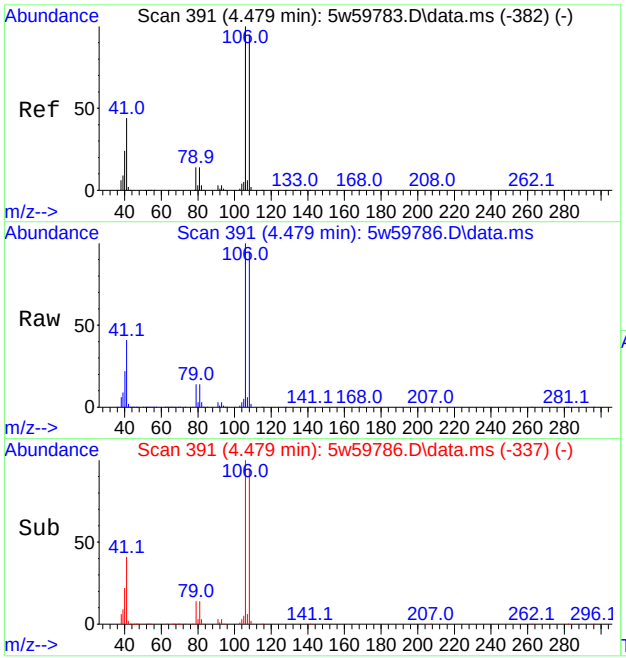


#28
ETHANOL
Concen: 25.13 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 668282

Ion	Ratio	Lower	Upper
45	100		
46	32.6	2.0	62.0
42	8.5	0.0	38.5

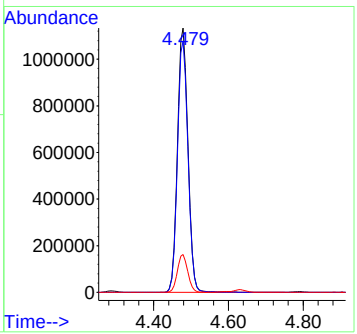


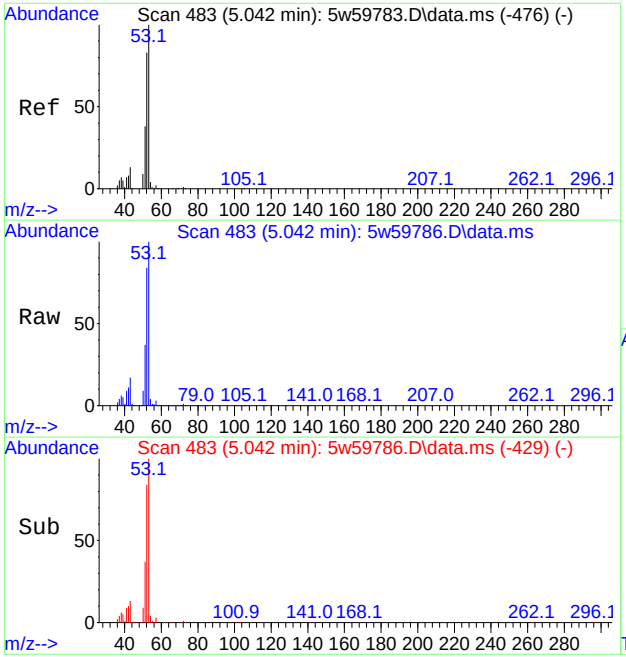


#29
BROMOETHENE
Concen: 32.02 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 2216899

Ion	Ratio	Lower	Upper
106	100		
108	95.4	65.6	125.6
81	14.3	0.0	43.9

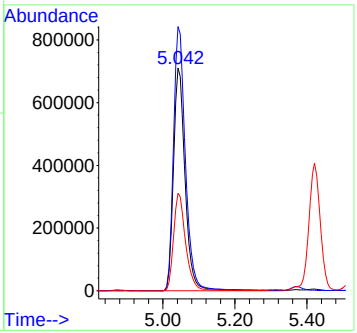


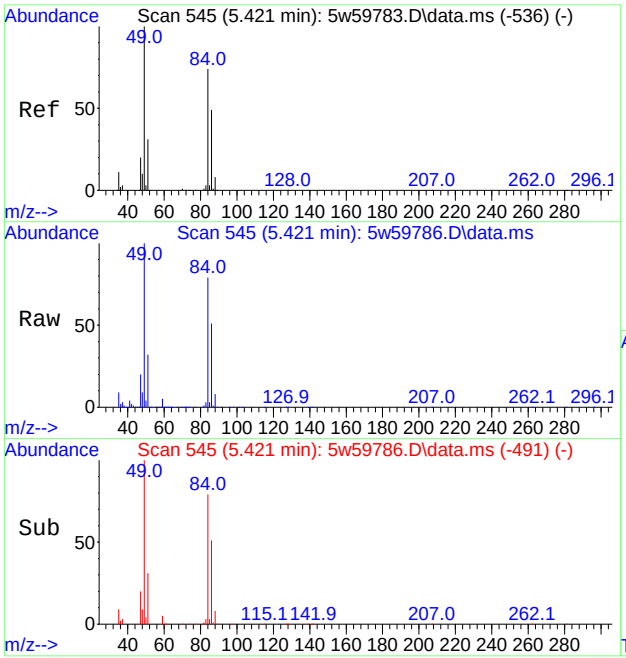


#30
ACRYLONITRILE
Concen: 34.08 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 1601584

Ion	Ratio	Lower	Upper
52	100		
53	121.7	85.8	159.4
51	45.3	32.3	60.1

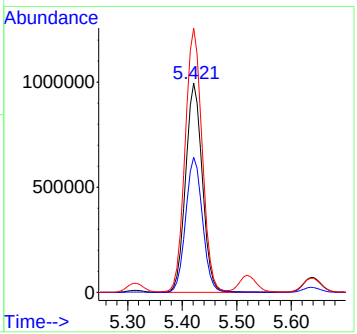


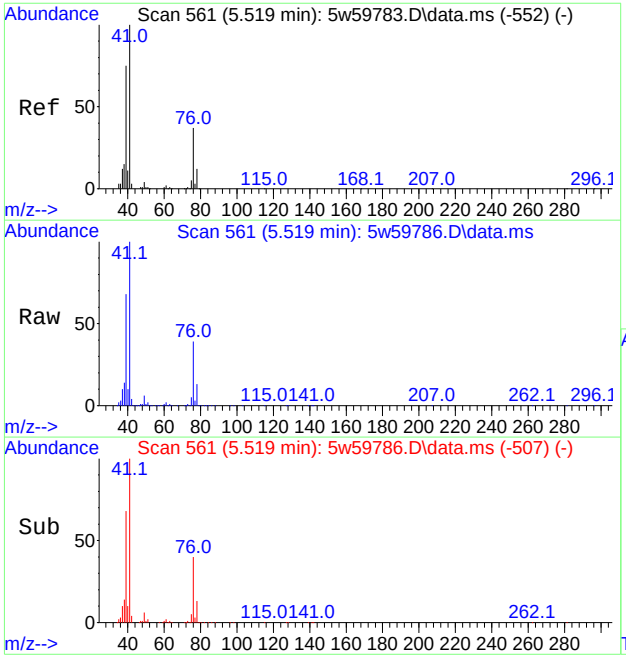


#31
METHYLENE CHLORIDE
Concen: 32.13 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2117266

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	128.7	105.3	165.3

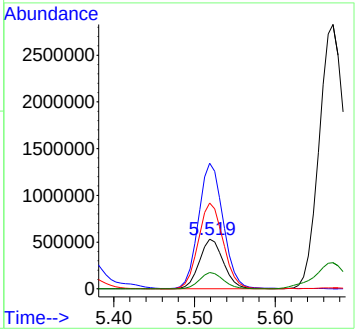


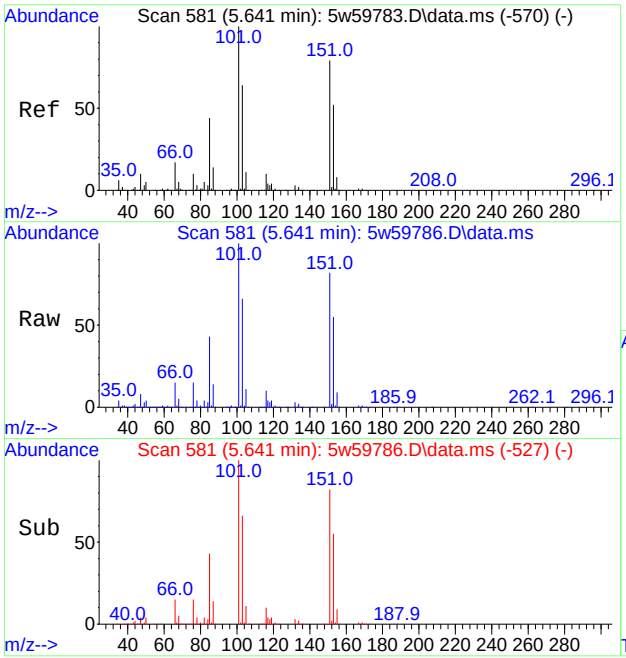


#32
3-CHLOROPROPENE
Concen: 35.87 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 1102190

Ion	Ratio	Lower	Upper
76	100		
41	259.8	240.8	300.8
39	178.8	173.6	233.6
78	32.8	2.8	62.8

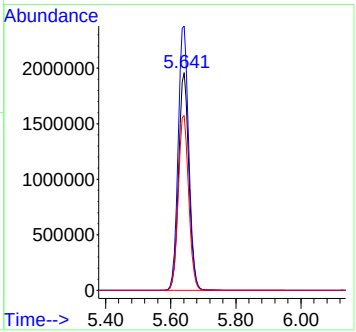


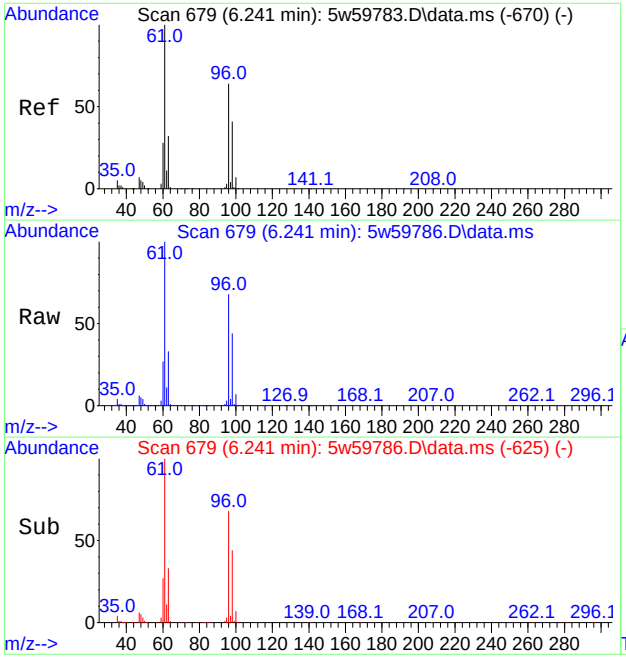


#33
FREON 113
Concen: 33.71 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:151 Resp: 4335347

Ion	Ratio	Lower	Upper
151	100		
101	124.7	97.5	157.5
103	81.6	52.5	112.5

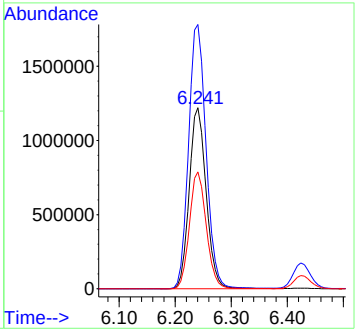


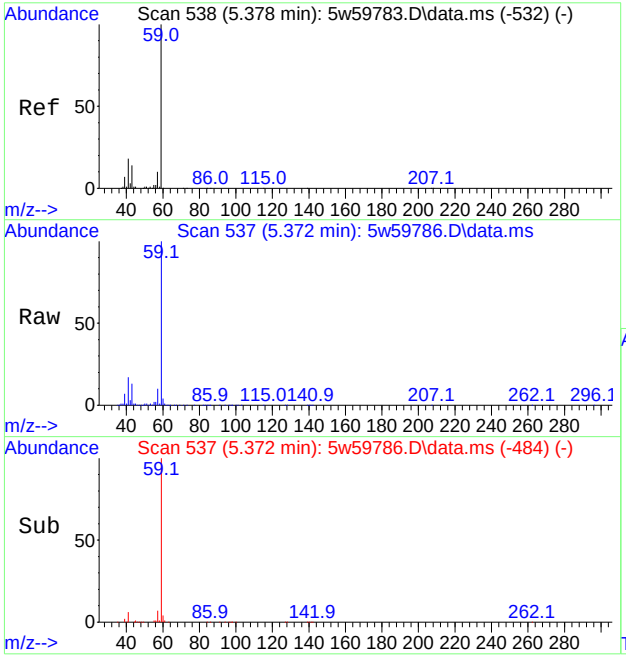


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 33.70 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2566855

Ion	Ratio	Lower	Upper
96	100		
61	150.4	126.4	186.4
98	64.4	34.1	94.1

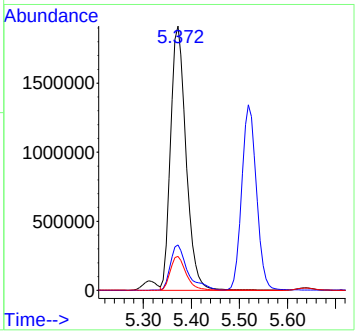


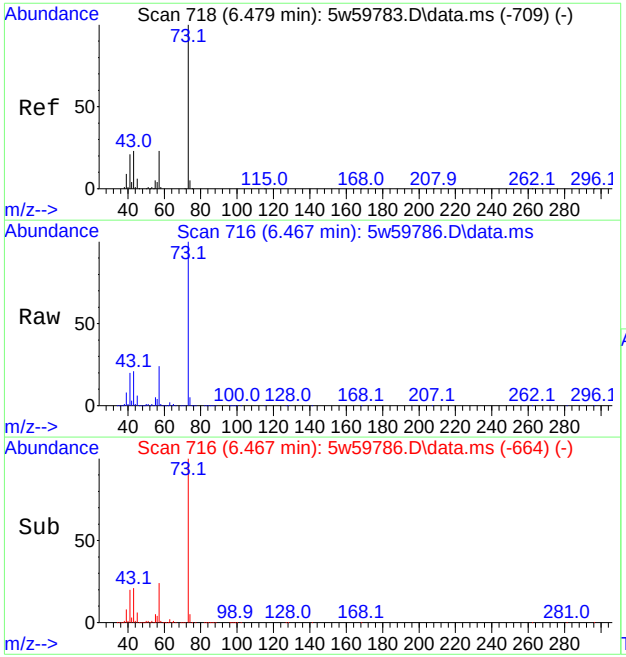


#35
TERTIARY BUTYL ALCOHOL
Concen: 27.79 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 4270952

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.2	0.0	44.1

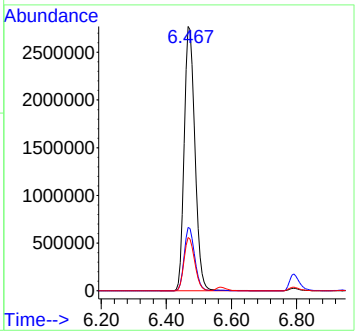


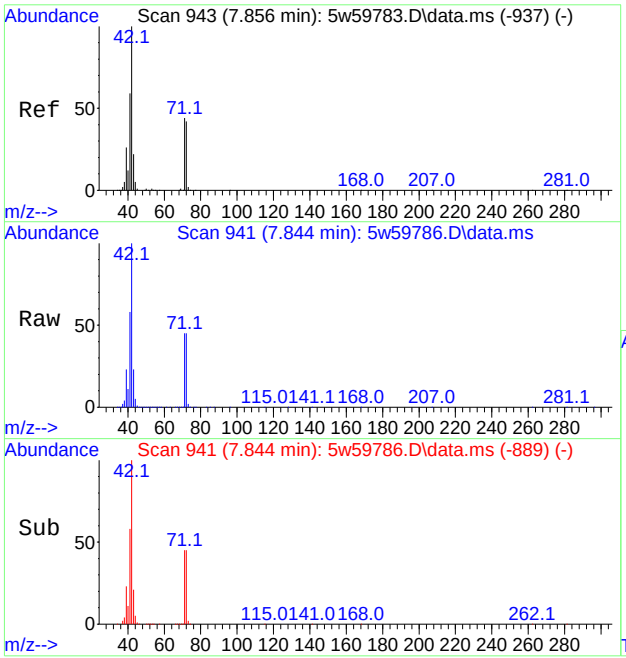


#36
METHYL TERTIARY BUTYL ETHER
Concen: 33.80 PPBV
RT: 6.467 min Scan# 716
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 73 Resp: 6337595

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	20.0	0.0	50.6

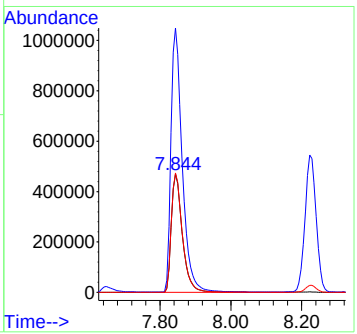


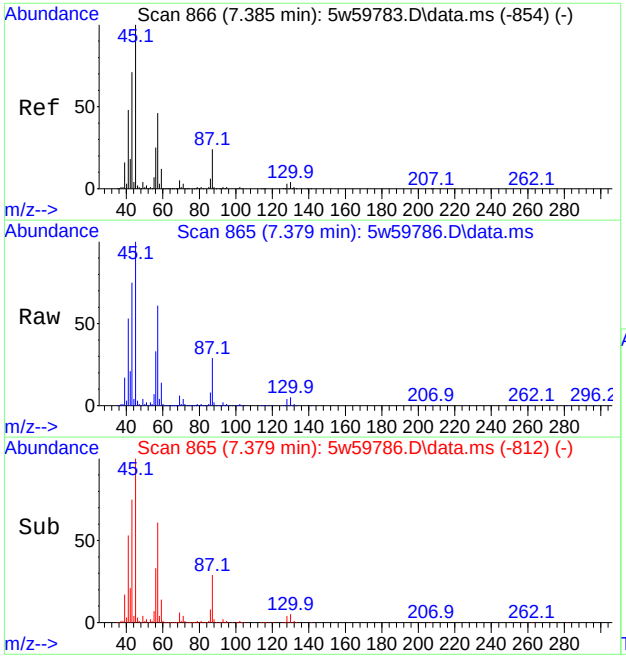


#37
TETRAHYDROFURAN
Concen: 37.42 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1023793

Ion	Ratio	Lower	Upper
72	100		
42	225.7	202.4	262.4
71	100.8	71.1	131.1

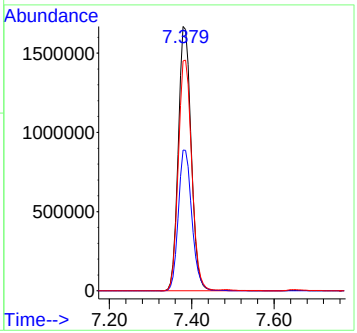


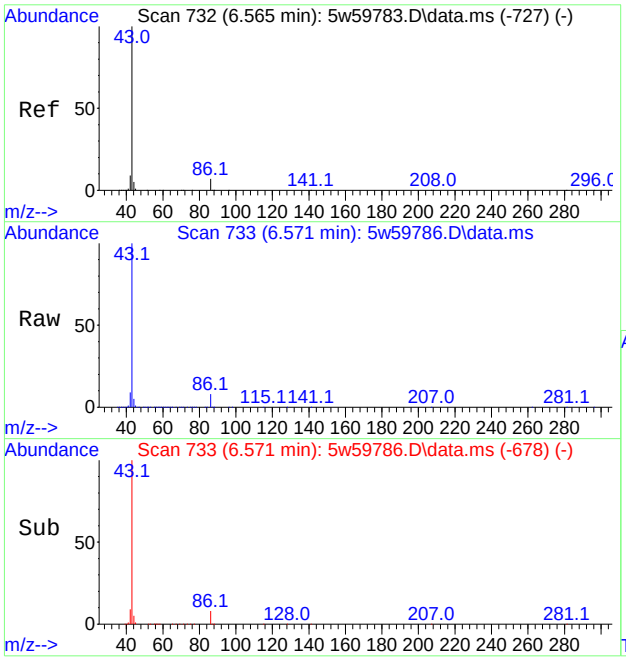


#38
HEXANE
Concen: 34.89 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 3623516

Ion	Ratio	Lower	Upper
57	100		
56	56.2	25.9	85.9
41	91.2	74.7	134.7

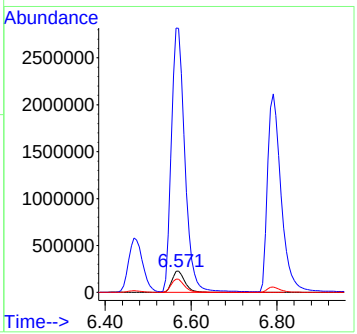


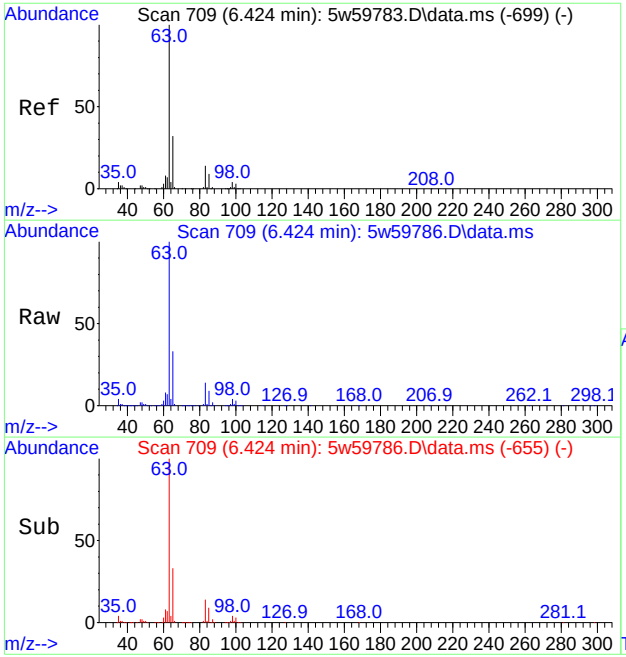


#39
VINYL ACETATE
Concen: 39.37 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 86 Resp: 477066

Ion	Ratio	Lower	Upper
86	100		
43	1285.9	1379.7	1439.7#
44	63.4	36.9	96.9

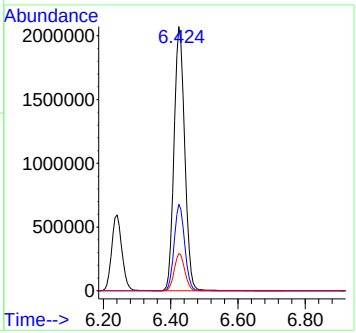


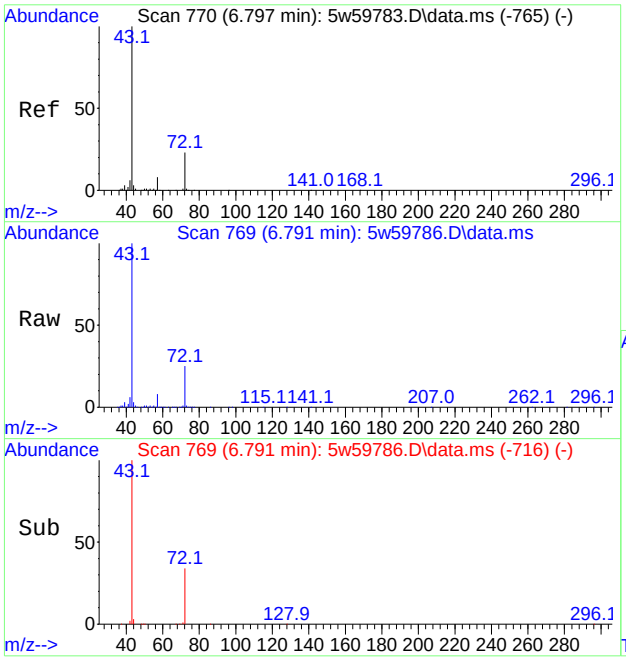


#40
1,1-DICHLOROETHANE
Concen: 33.30 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 4545260

Ion	Ratio	Lower	Upper
63	100		
65	32.4	1.7	61.7
83	13.9	0.0	43.5

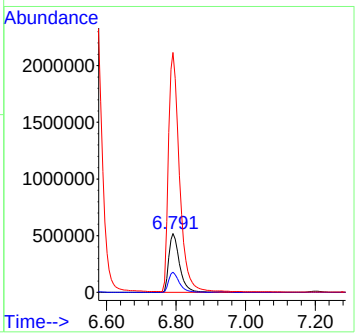


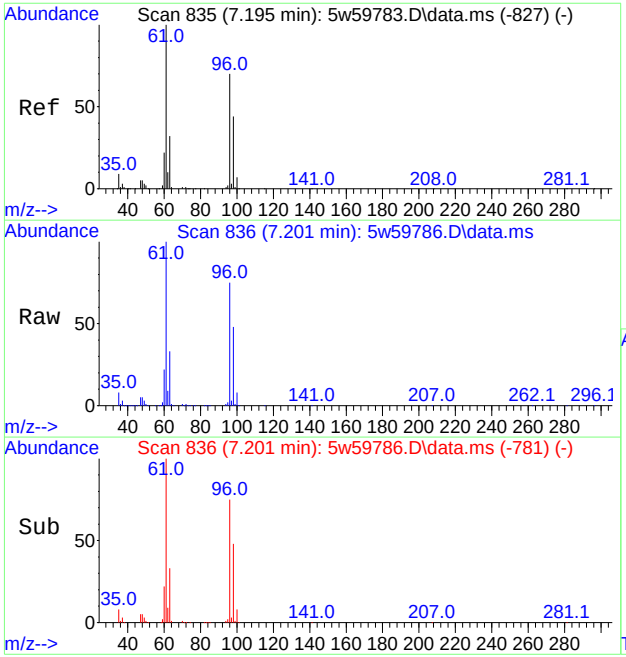


#41
METHYL ETHYL KETONE
Concen: 39.33 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1116320

Ion	Ratio	Lower	Upper
72	100		
57	34.3	4.8	64.8
43	407.4	415.9	475.9#

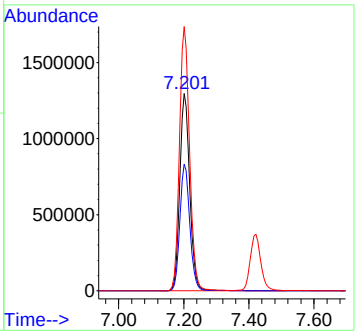


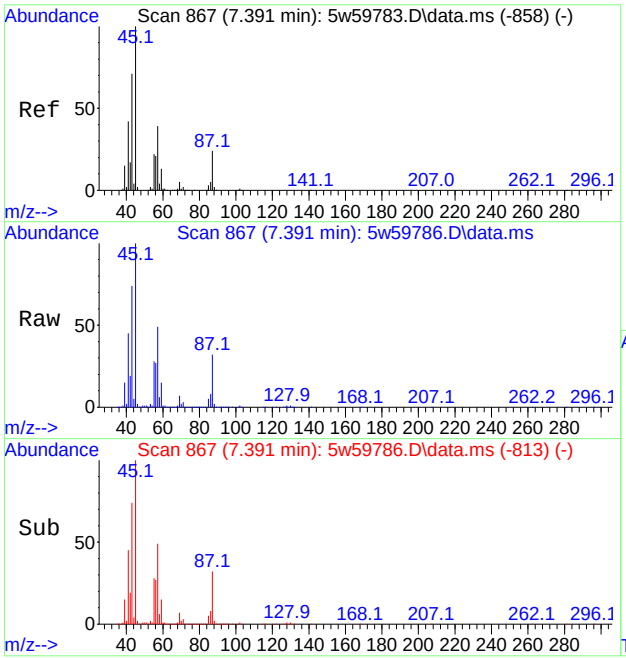


#42
cis-1,2-DICHLOROETHYLENE
Concen: 35.23 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2772689

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	136.2	111.5	171.5

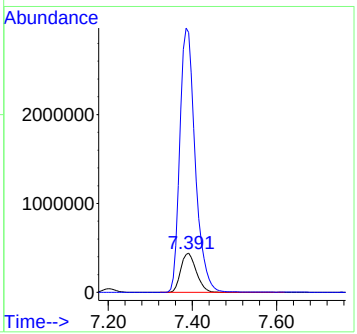


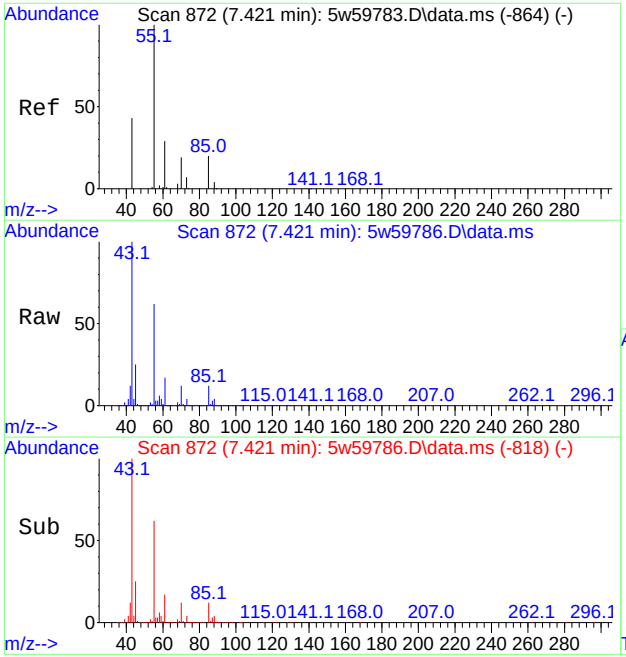


#43
DIISOPROPYL ETHER
Concen: 38.69 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 1134199

Ion	Ratio	Lower	Upper
59	100		
45	668.8	720.9	780.9#

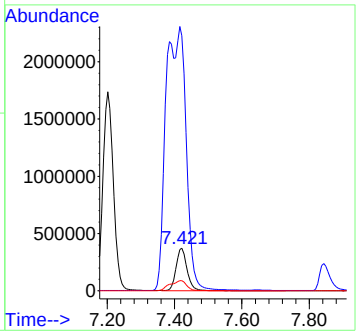


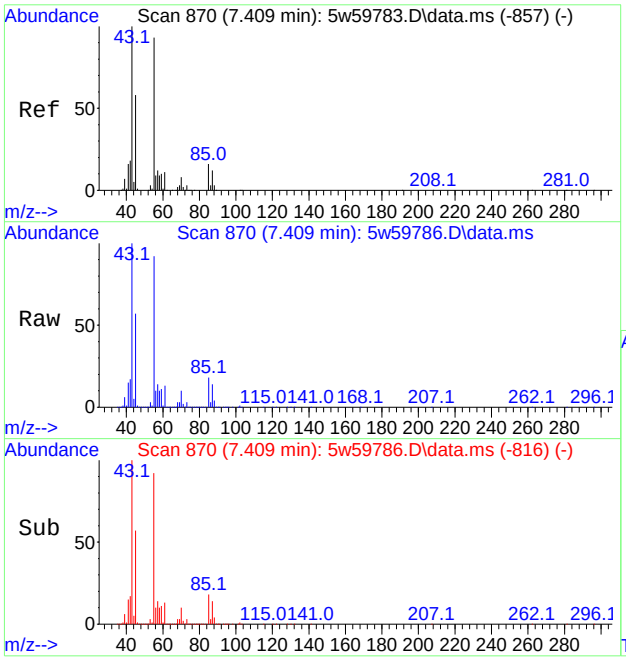


#44
ETHYL ACETATE
Concen: 34.91 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 61 Resp: 845012

Ion	Ratio	Lower	Upper
61	100		
43	618.0	560.5	620.5
88	37.0	4.5	64.5

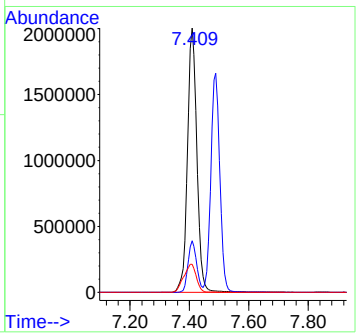


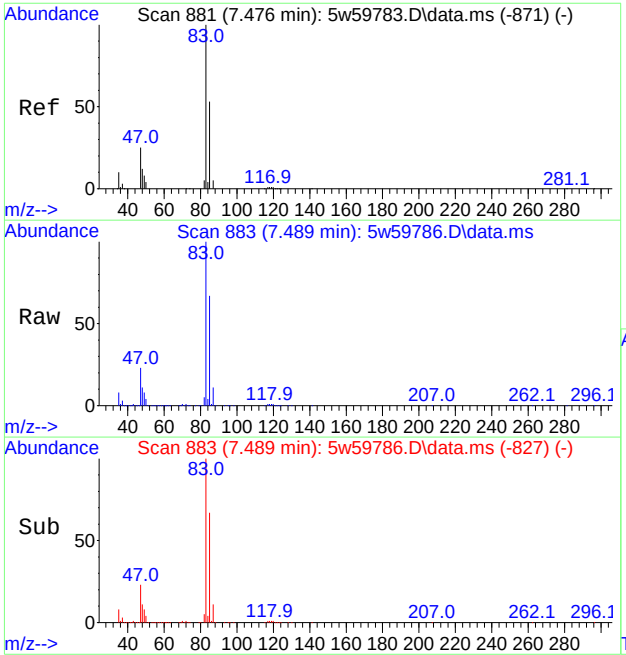


#45
METHYL ACRYLATE
Concen: 33.33 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 4442118

Ion	Ratio	Lower	Upper
55	100		
85	17.9	10.9	20.3
58	14.3	9.4	17.6

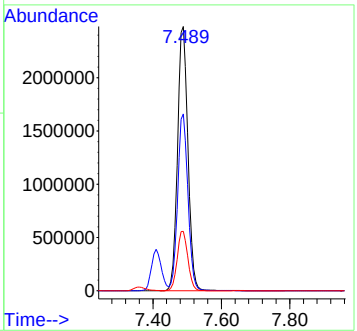


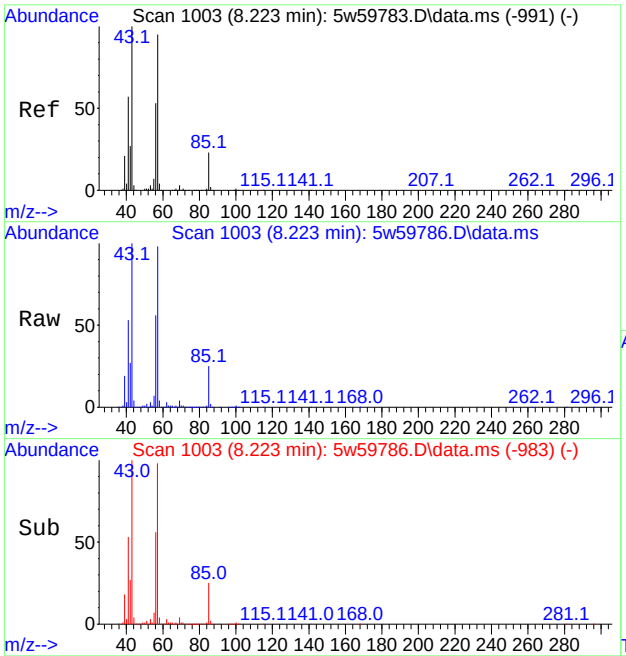


#46
CHLOROFORM
Concen: 33.15 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 5265891

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.6	95.6
47	23.1	0.0	55.2

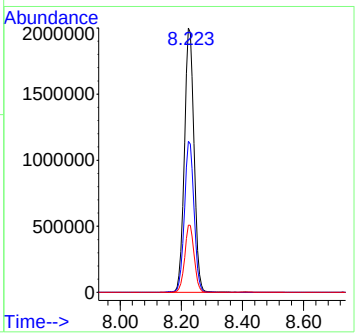


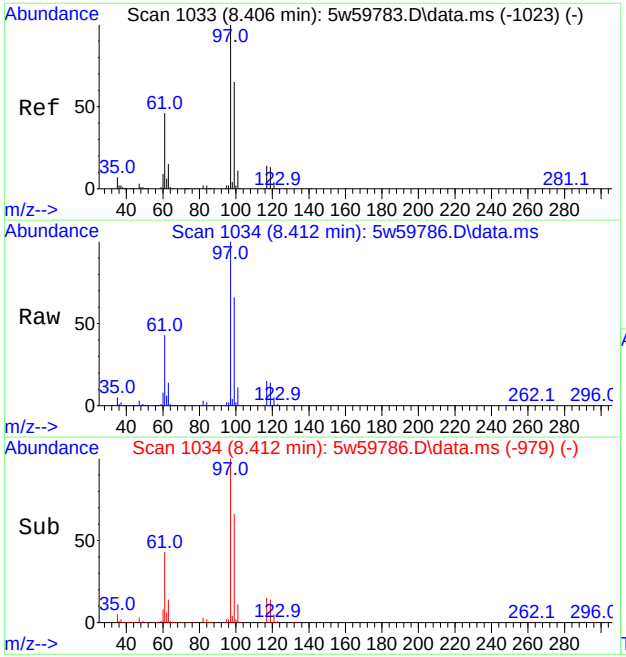


#47
2,4-DIMETHYLPENTANE
Concen: 35.95 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 4372372

Ion	Ratio	Lower	Upper
57	100		
56	57.3	26.5	86.5
85	25.1	0.0	53.8

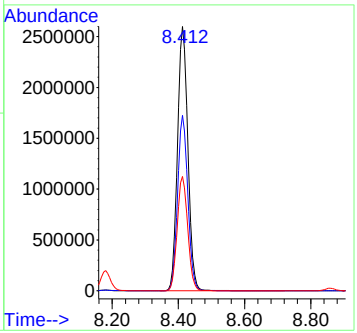


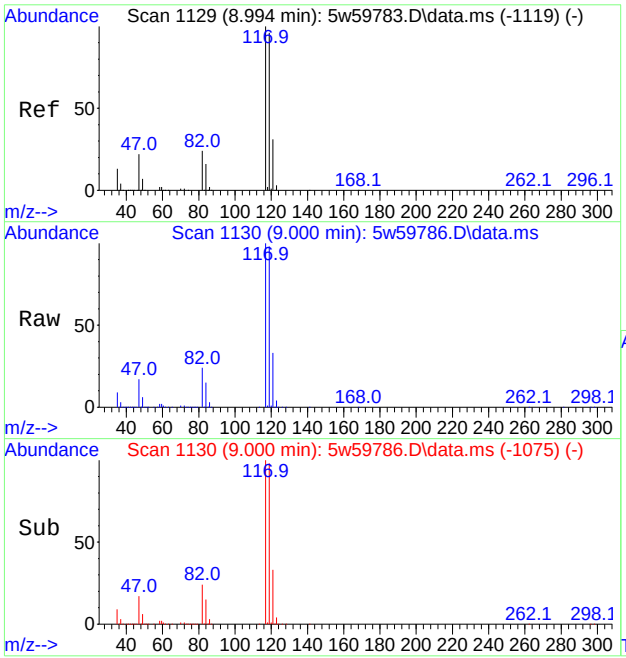


#48
1,1,1-TRICHLOROETHANE
Concen: 33.44 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 97 Resp: 5674011

Ion	Ratio	Lower	Upper
97	100		
99	65.7	34.8	94.8
61	43.9	15.8	75.8

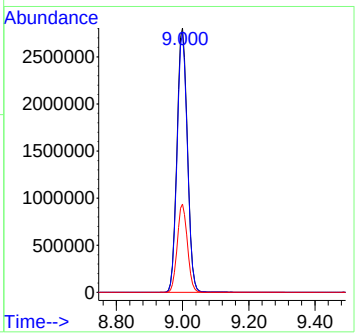


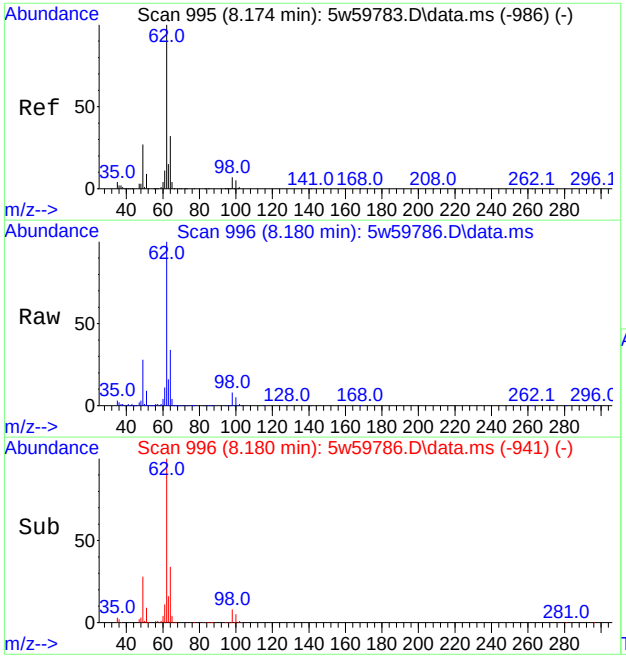


#49
CARBON TETRACHLORIDE
Concen: 33.09 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 6150579

Ion	Ratio	Lower	Upper
117	100		
119	97.1	66.9	126.9
121	32.6	1.3	61.3

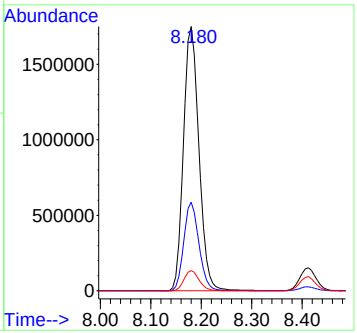


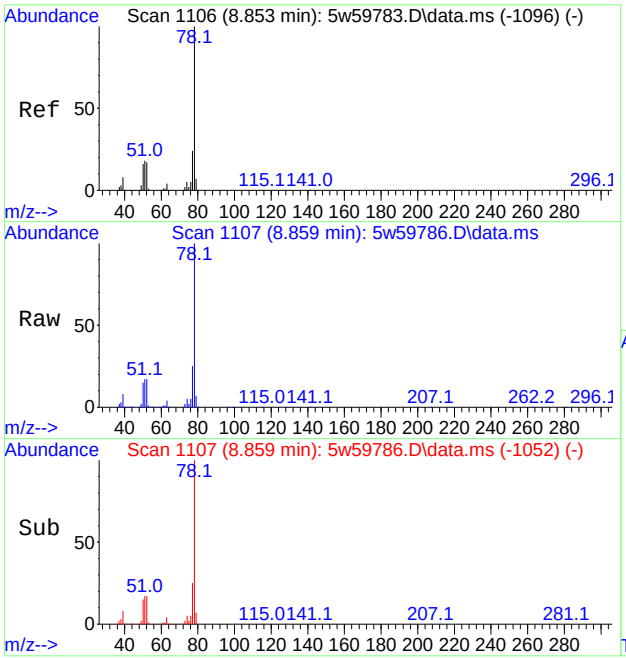


#50
1,2-DICHLOROETHANE
Concen: 33.65 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 3745660

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	7.5	0.0	36.9

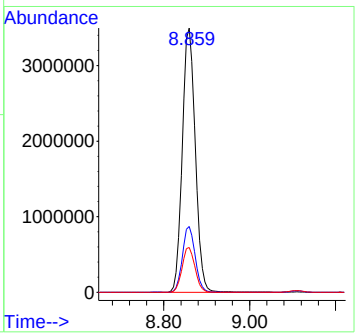


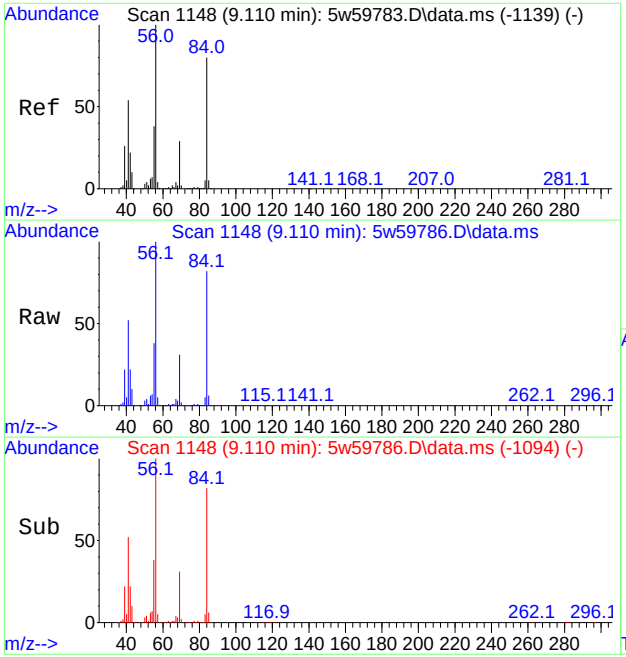


#52
BENZENE
Concen: 40.36 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 78 Resp: 7354311

Ion	Ratio	Lower	Upper
78	100		
77	24.5	0.0	53.8
52	17.0	0.0	46.9

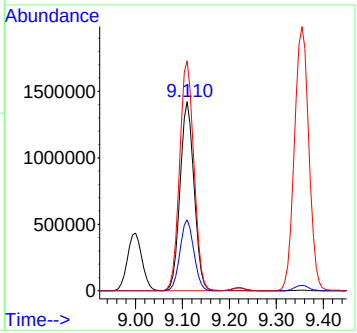


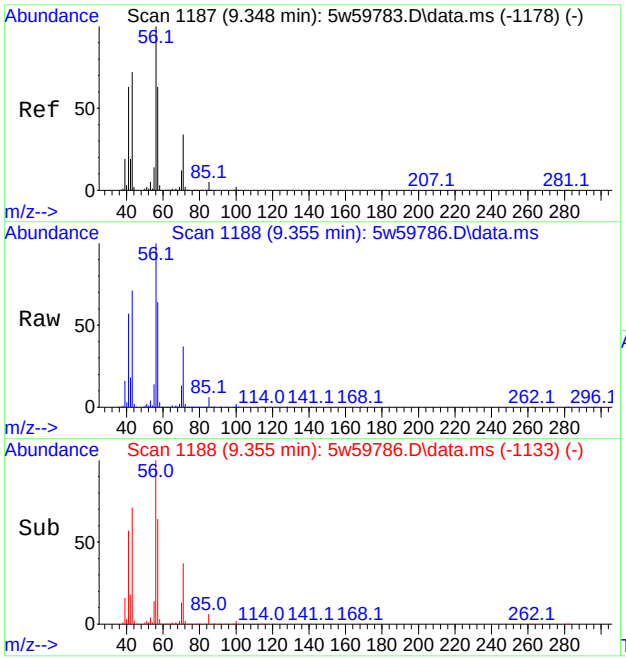


#53
CYCLOHEXANE
Concen: 40.67 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2949070

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	124.0	98.2	158.2

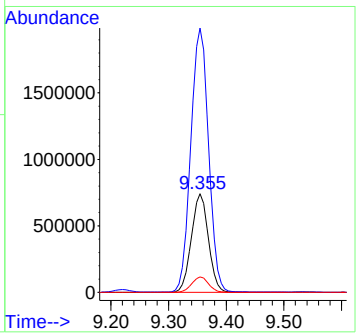


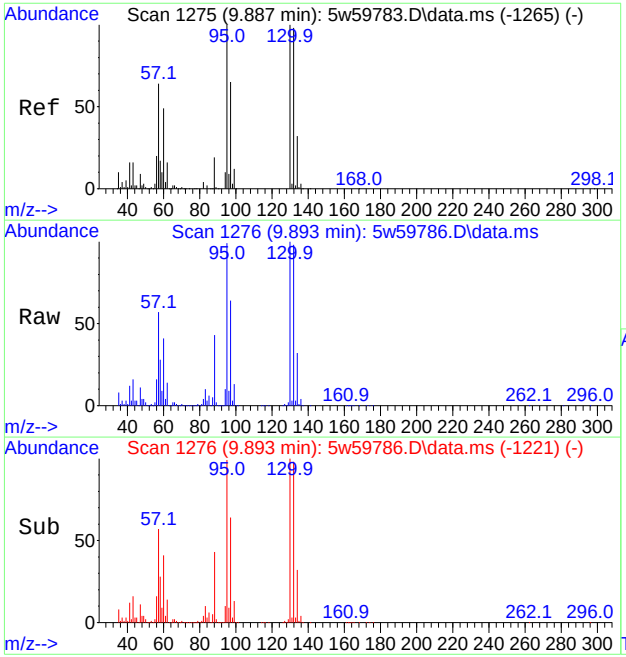


#54
2,3-DIMETHYLPENTANE
Concen: 42.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 71 Resp: 1522391

Ion	Ratio	Lower	Upper
71	100		
56	280.1	264.6	324.6
85	15.6	0.0	45.3

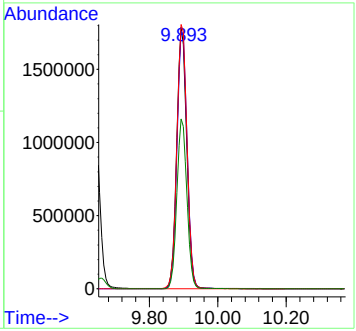


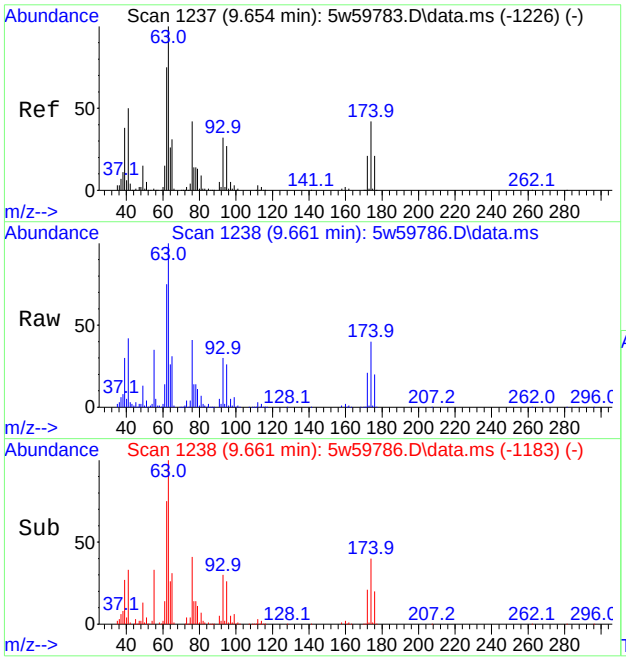


#55
TRICHLOROETHYLENE
Concen: 37.53 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 95 Resp: 3632086

Ion	Ratio	Lower	Upper
95	100		
132	100.6	69.0	129.0
130	103.1	70.6	130.6
97	65.4	34.6	94.6

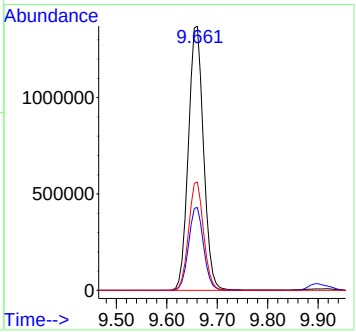


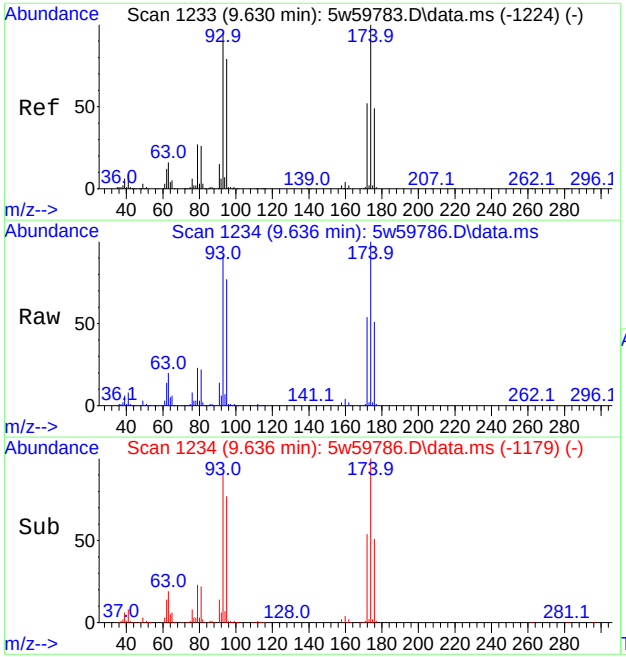


#56
1,2-DICHLOROPROPANE
Concen: 37.03 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 2868397

Ion	Ratio	Lower	Upper
63	100		
65	31.3	0.5	60.5
76	40.8	11.5	71.5

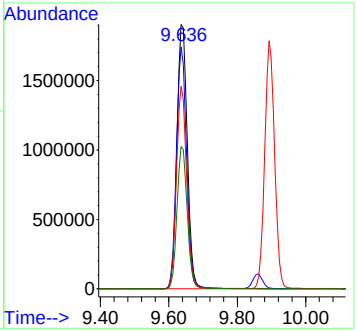


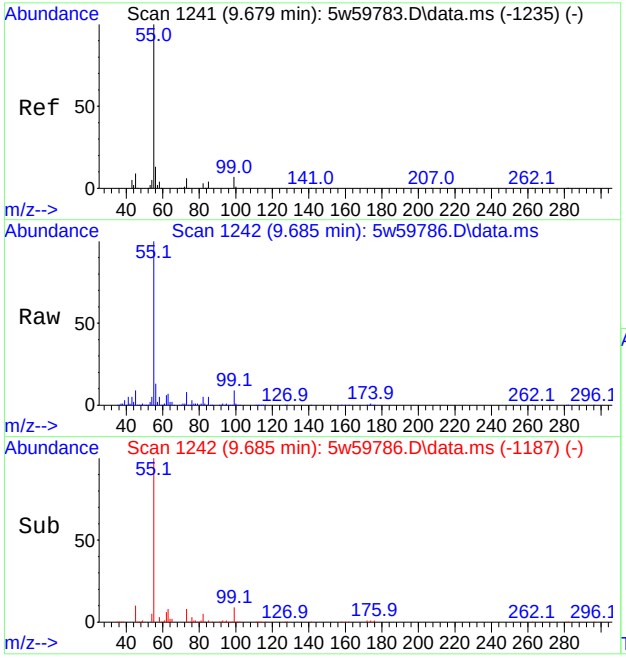


#57
DIBROMOMETHANE
Concen: 38.37 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:174 Resp: 4006214

Ion	Ratio	Lower	Upper
174	100		
93	90.3	65.0	120.6
95	75.8	54.5	101.1
172	53.2	36.3	67.5

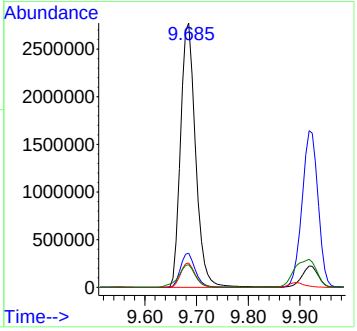


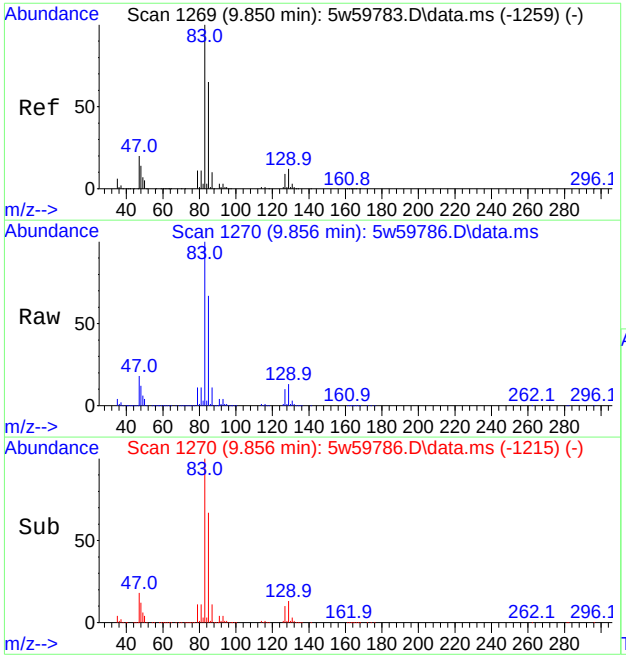


#58
ETHYL ACRYLATE
Concen: 37.54 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 5610538

Ion	Ratio	Lower	Upper
55	100		
56	12.7	8.6	16.0
45	9.0	6.6	12.2
99	9.8	6.4	12.0

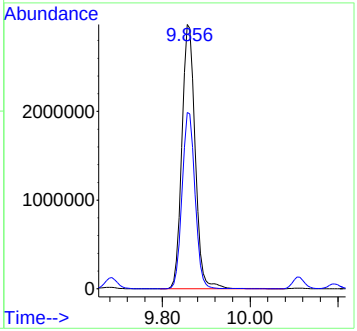


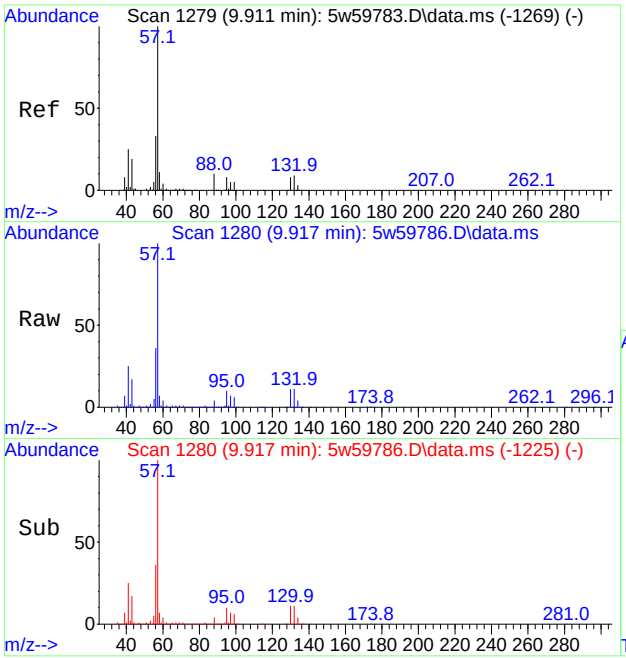


#59
BROMODICHLOROMETHANE
Concen: 37.04 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6264555

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

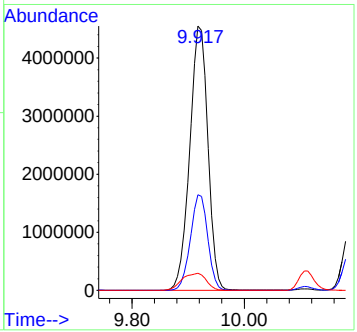


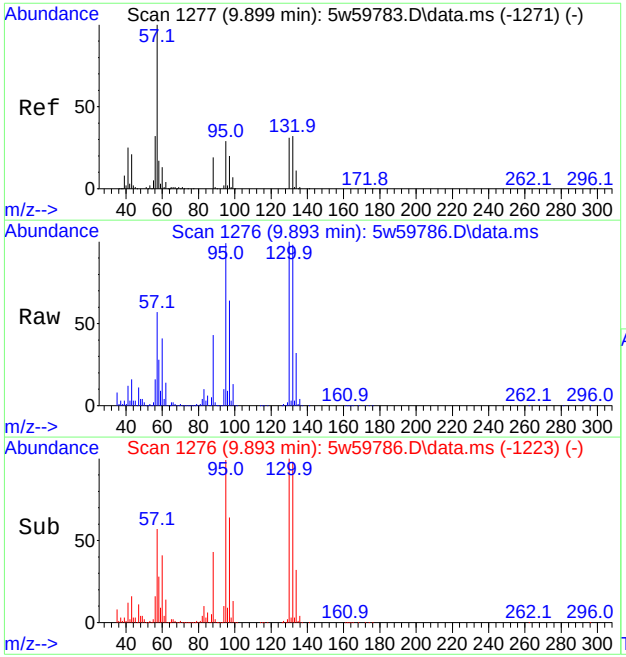


#60
2,2,4-TRIMETHYLPENTANE
Concen: 34.27 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp:10265949

Ion	Ratio	Lower	Upper
57	100		
56	34.3	2.5	62.5
99	8.6	0.0	37.3

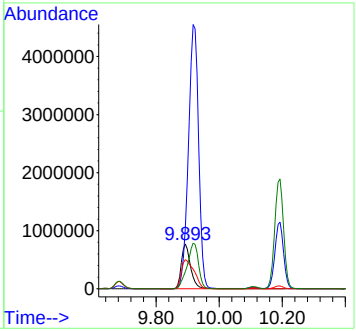


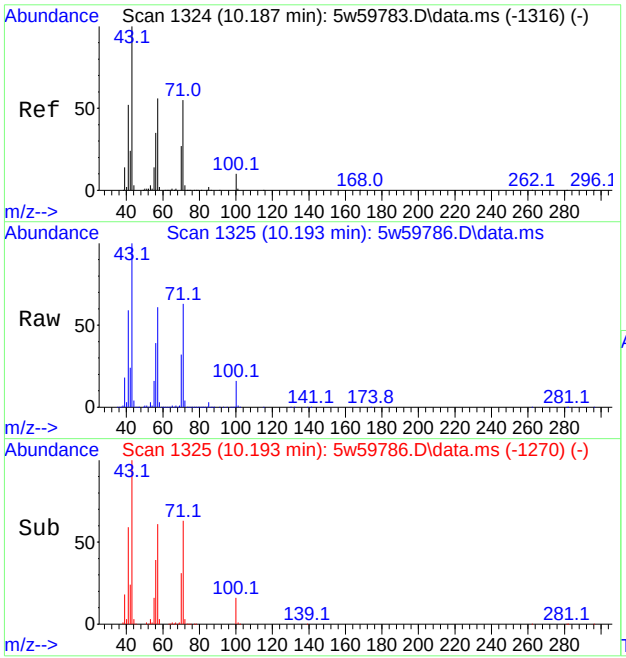


#61
1,4-DIOXANE
Concen: 39.31 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 88 Resp: 1571741

Ion	Ratio	Lower	Upper
88	100		
57	134.3	494.2	554.2#
58	65.0	58.9	118.9
43	37.9	78.3	138.3#

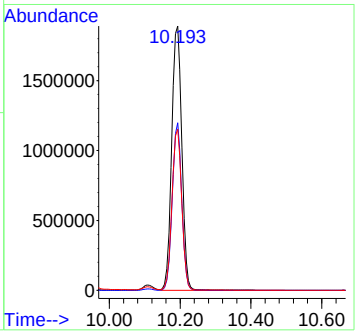


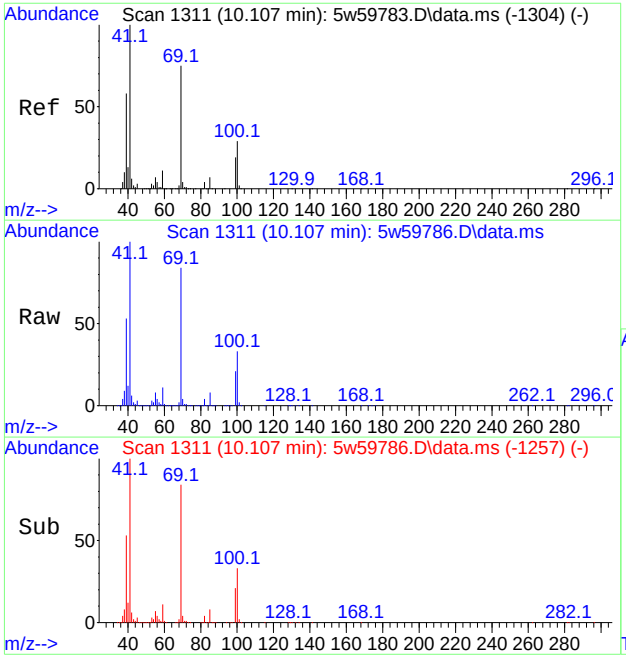


#62
HEPTANE
Concen: 36.15 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 3734901

Ion	Ratio	Lower	Upper
43	100		
71	59.6	24.5	84.5
57	59.3	26.2	86.2

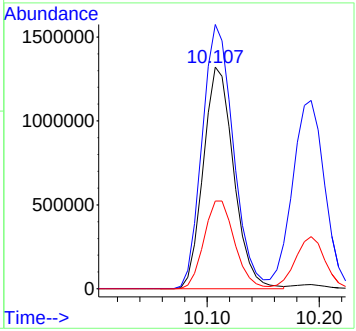


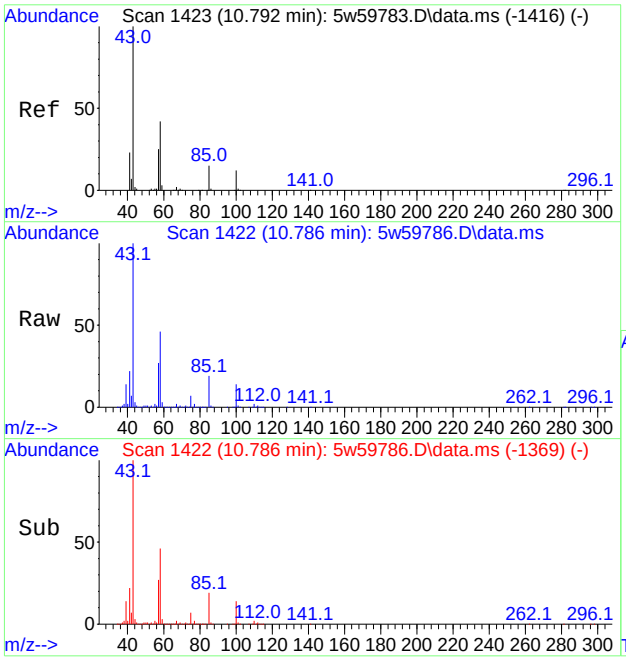


#63
METHYL METHACRYLATE
Concen: 41.16 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 2494133

Ion	Ratio	Lower	Upper
69	100		
41	121.8	95.3	155.3
100	40.1	6.3	66.3

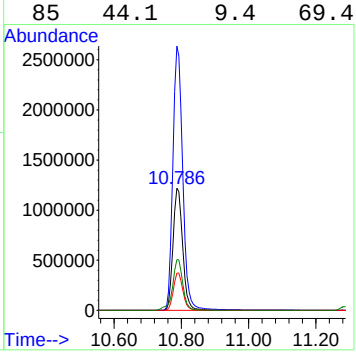


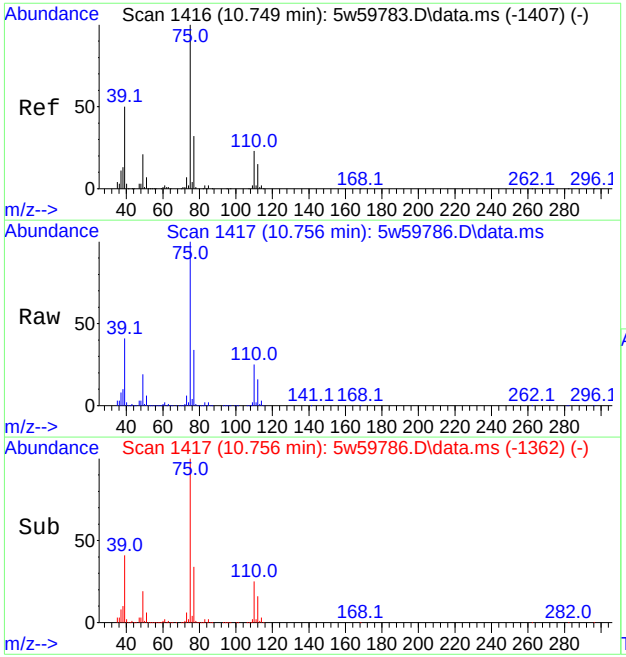


#64
METHYL ISOBUTYL KETONE
Concen: 38.84 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 2440543

Ion	Ratio	Lower	Upper
58	100		
43	220.5	209.2	269.2
100	30.5	0.0	58.8
85	44.1	9.4	69.4

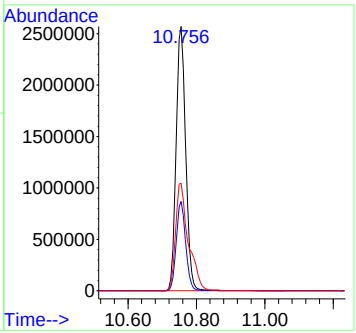


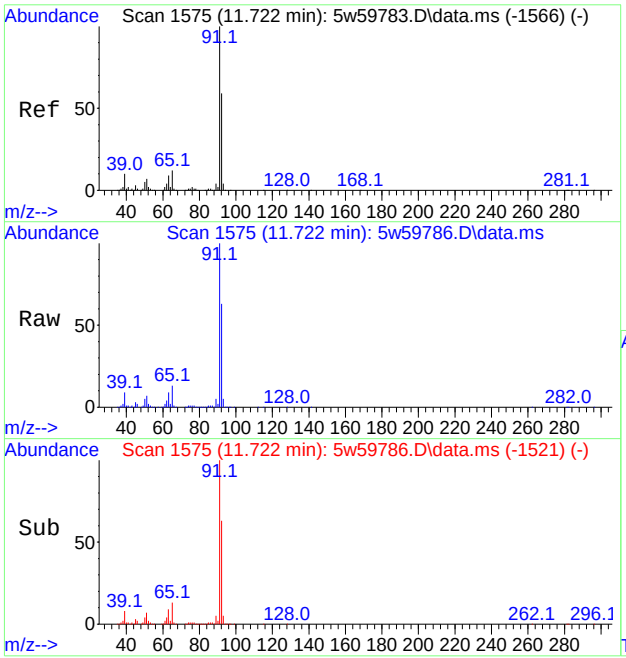


#65
cis-1,3-DICHLOROPROPENE
Concen: 41.46 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5041121

Ion	Ratio	Lower	Upper
75	100		
77	33.3	2.2	62.2
39	54.5	34.3	94.3

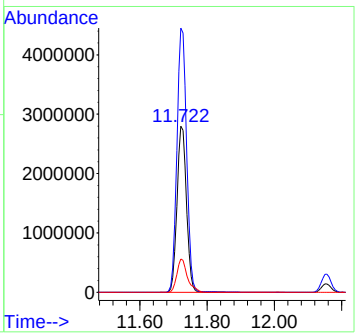


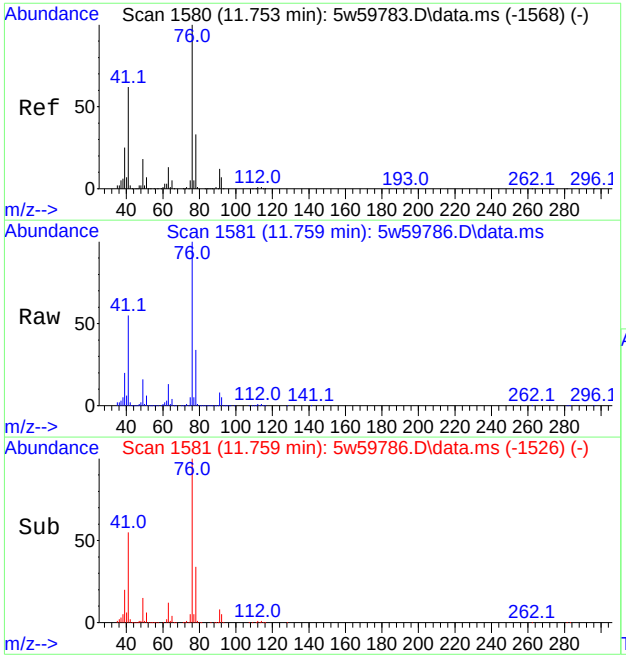


#66
TOLUENE
Concen: 41.16 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 92 Resp: 5480196

Ion	Ratio	Lower	Upper
92	100		
91	163.0	140.1	200.1
65	22.6	0.0	53.1

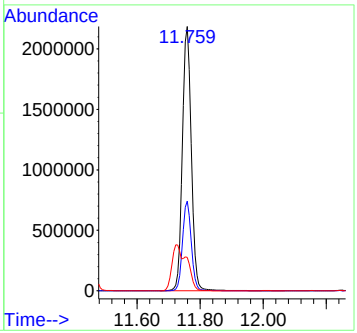


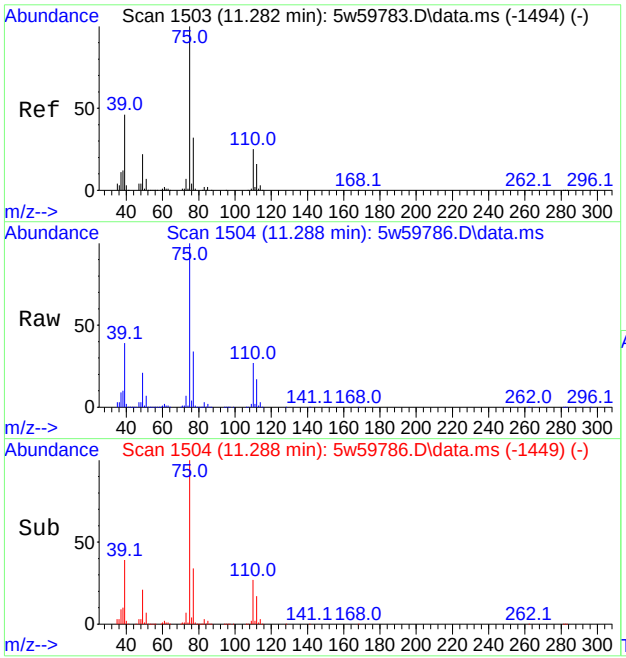


#67
1,3-DICHLOROPROPANE
Concen: 38.74 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 4271872

Ion	Ratio	Lower	Upper
76	100		
78	33.4	23.2	43.0
63	11.6	7.1	13.1

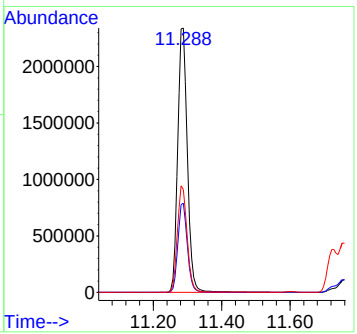


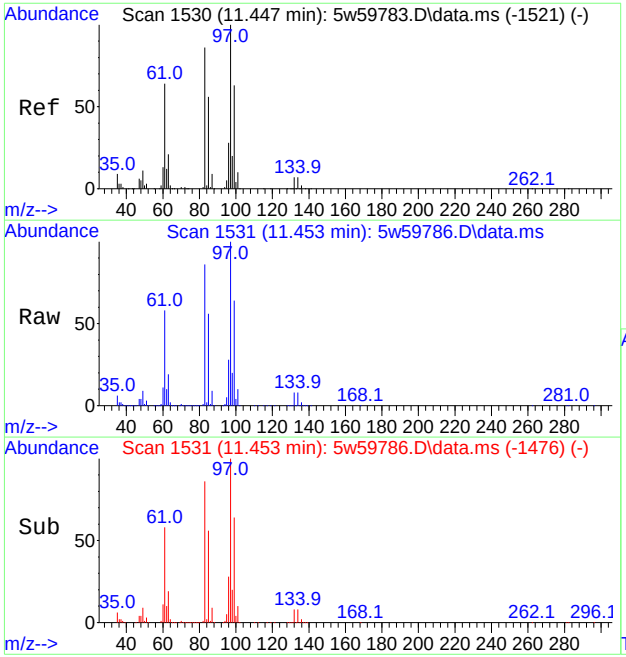


#68
trans-1,3-DICHLOROPROPENE
Concen: 40.93 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 4565890

Ion	Ratio	Lower	Upper
75	100		
77	33.1	1.6	61.6
39	40.9	16.1	76.1

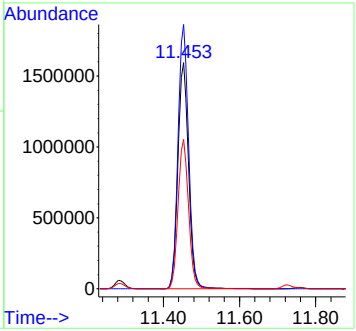


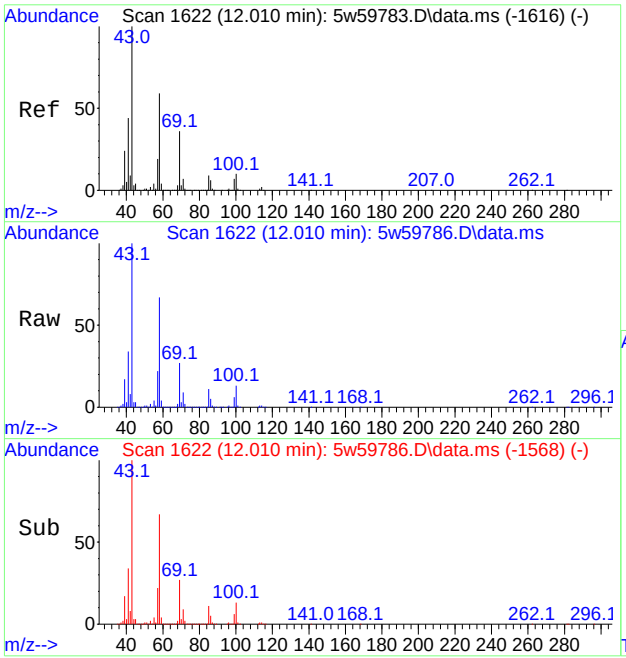


#69
1,1,2-TRICHLOROETHANE
Concen: 42.06 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 3077034

Ion	Ratio	Lower	Upper
83	100		
97	116.8	86.3	146.3
85	65.4	35.3	95.3

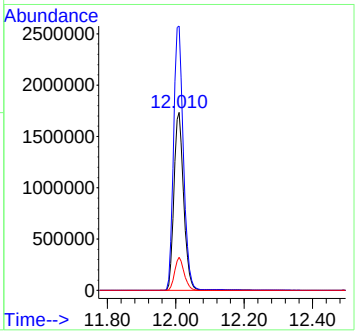


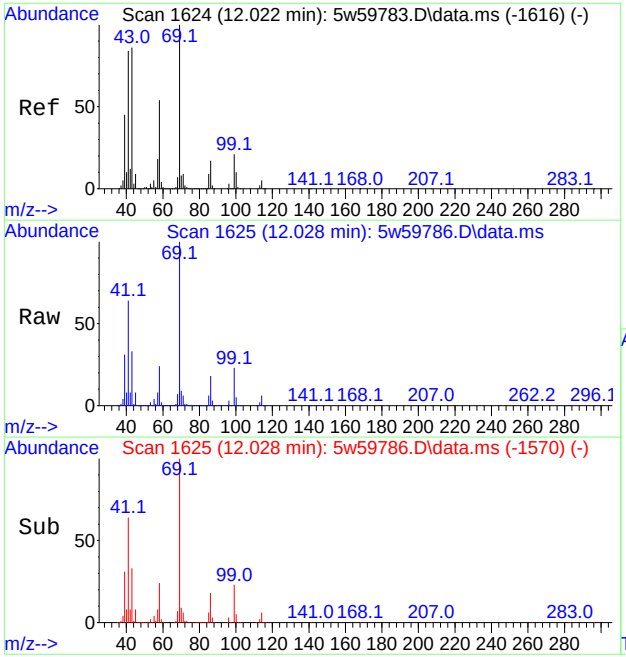


#71
2-HEXANONE
Concen: 32.66 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 3450029

Ion	Ratio	Lower	Upper
58	100		
43	150.6	137.2	197.2
100	18.4	0.0	46.9

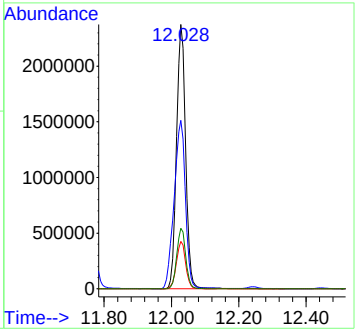


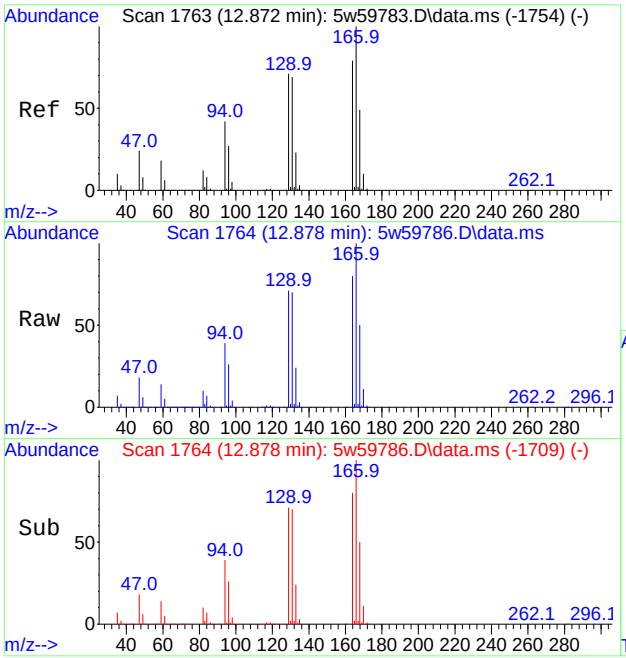


#72
ETHYL METHACRYLATE
Concen: 33.31 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 4427593

Ion	Ratio	Lower	Upper
69	100		
41	79.2	64.0	119.0
86	18.2	12.0	22.4
99	22.8	15.0	27.8

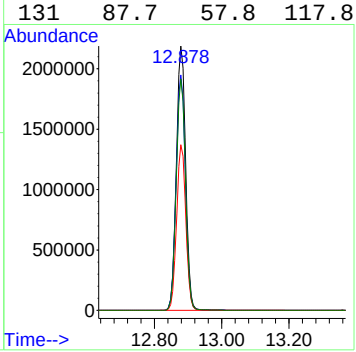


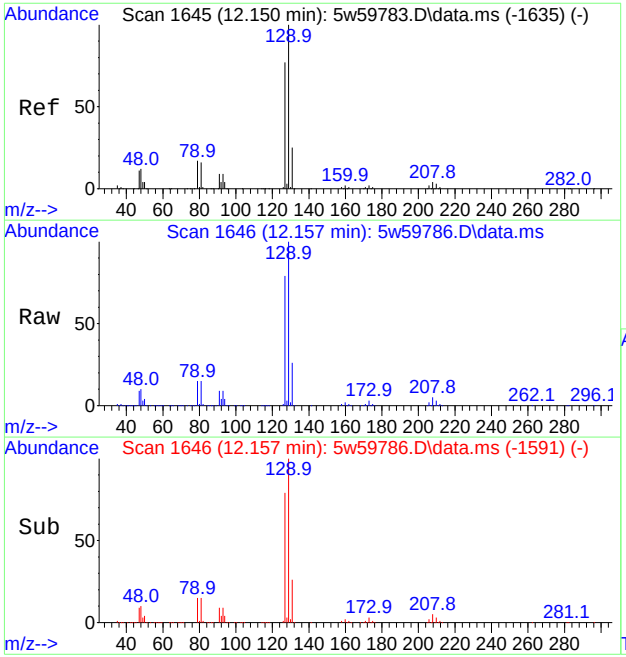


#73
TETRACHLOROETHYLENE
Concen: 31.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:164 Resp: 4203511

Ion	Ratio	Lower	Upper
164	100		
129	89.3	59.7	119.7
168	62.4	32.2	92.2
131	87.7	57.8	117.8

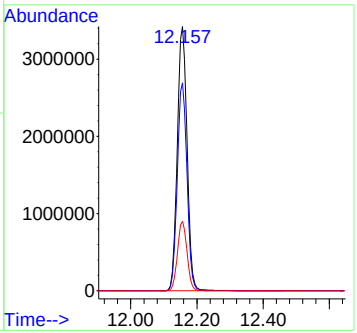


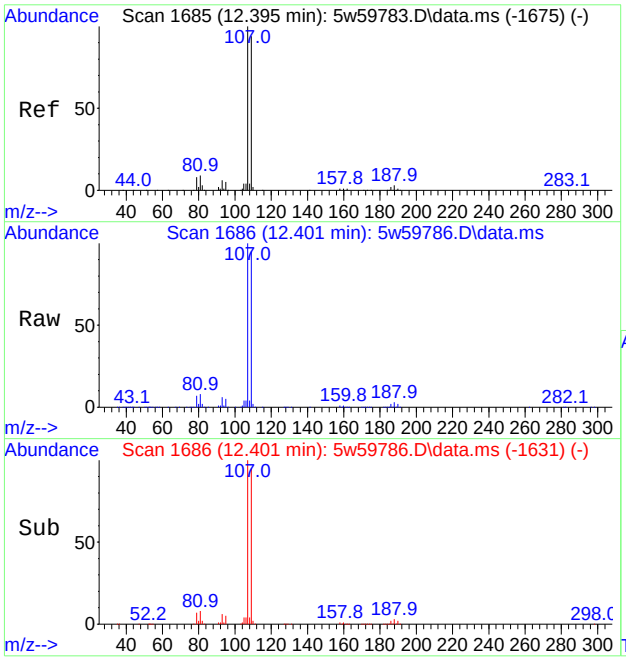


#74
DIBROMOCHLOROMETHANE
Concen: 30.46 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:129 Resp: 7029117

Ion	Ratio	Lower	Upper
129	100		
127	78.5	47.1	107.1
131	25.8	0.0	54.5

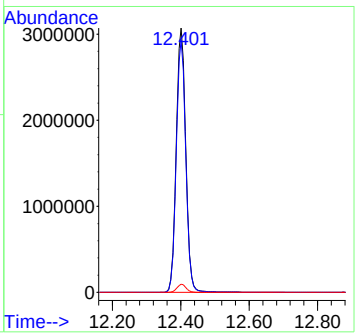


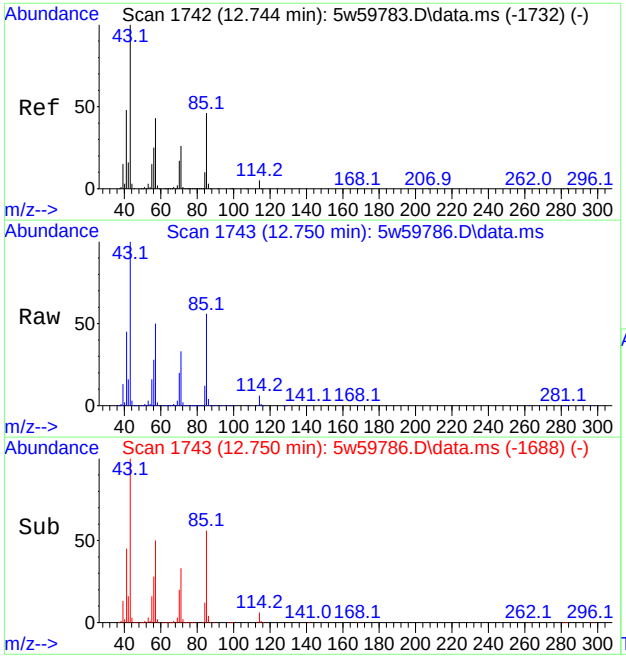


#75
1,2-DIBROMOETHANE
Concen: 33.98 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:107 Resp: 5931699

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

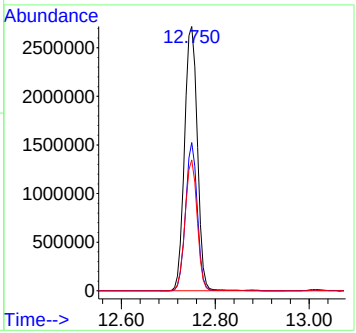


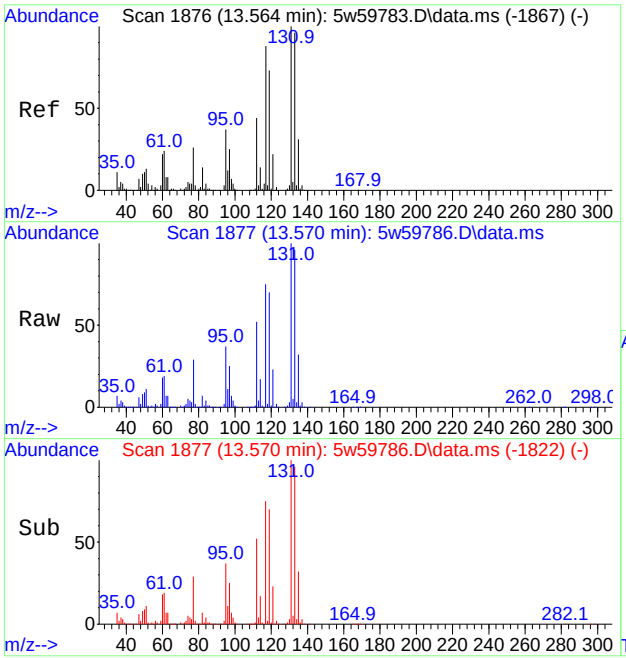


#76
OCTANE
Concen: 28.88 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 5161401

Ion	Ratio	Lower	Upper
43	100		
85	51.2	14.6	74.6
57	46.9	13.7	73.7

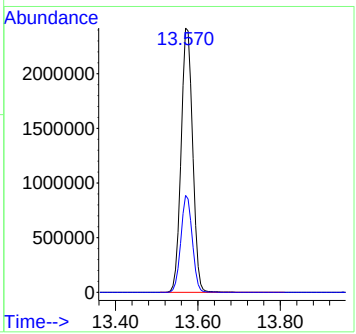


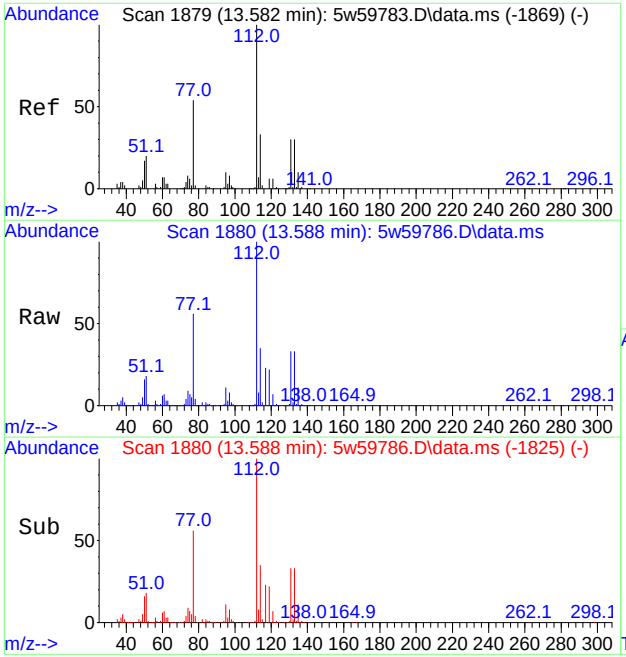


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 31.92 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:131 Resp: 4713028

Ion	Ratio	Lower	Upper
131	100		
95	36.1	6.5	66.5

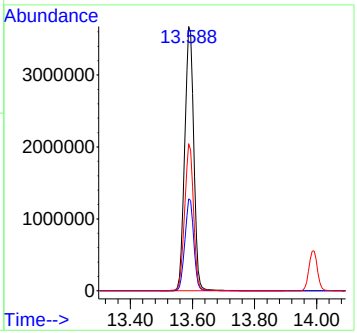


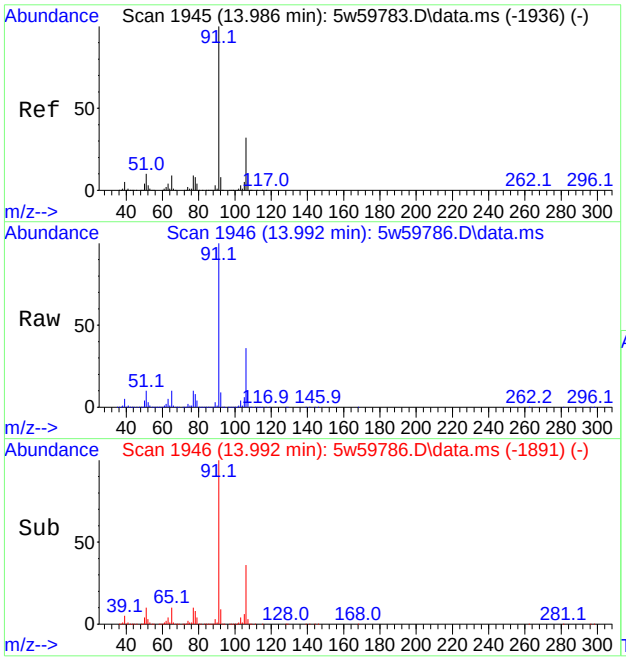


#78
CHLOROBENZENE
Concen: 30.47 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:112 Resp: 7439915

Ion	Ratio	Lower	Upper
112	100		
114	34.0	2.6	62.6
77	54.9	25.4	85.4

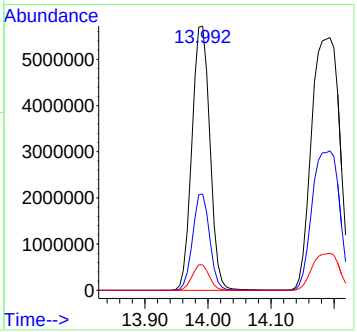


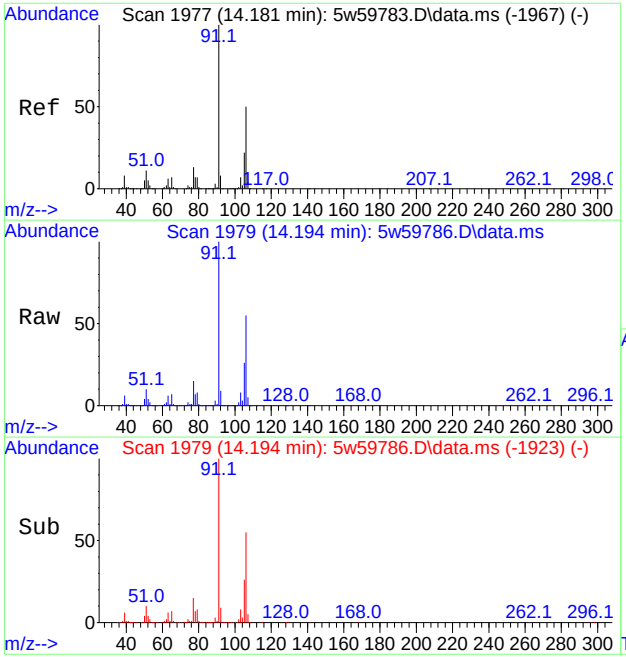


#79
ETHYLBENZENE
Concen: 31.54 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp:11379916

Ion	Ratio	Lower	Upper
91	100		
106	34.6	1.3	61.3
77	9.2	0.0	38.6

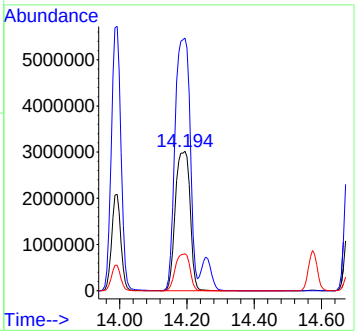


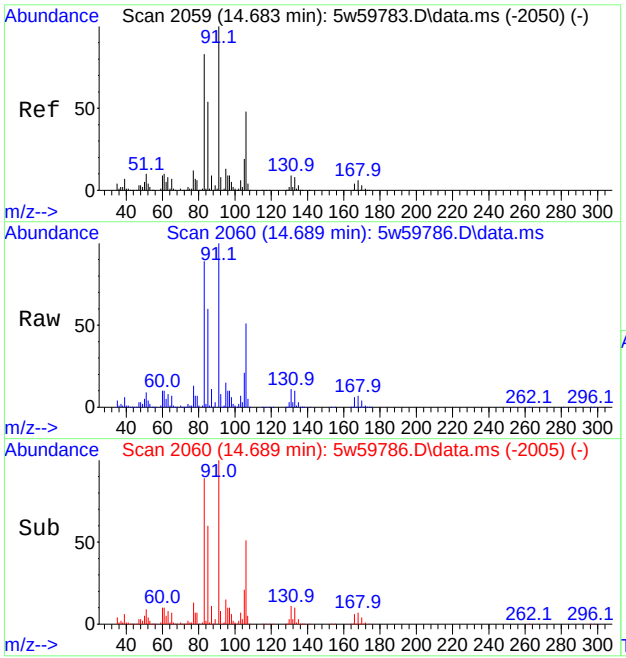


#80
m,p-XYLENE
Concen: 65.12 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 9117454

Ion	Ratio	Lower	Upper
106	100		
91	181.2	171.0	231.0
77	26.6	0.0	56.7

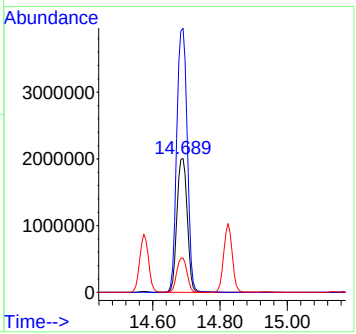


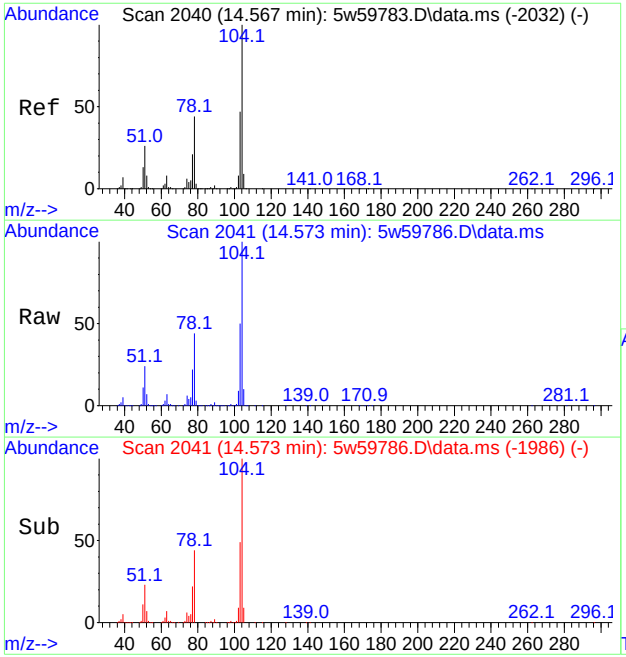


#81
o-XYLENE
Concen: 32.29 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 4240336

Ion	Ratio	Lower	Upper
106	100		
91	200.7	181.6	241.6
77	25.7	0.0	56.6

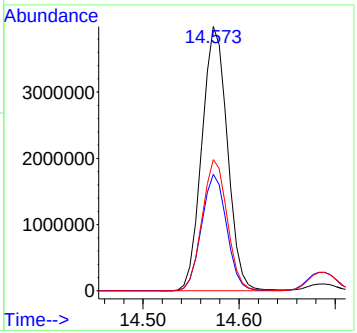


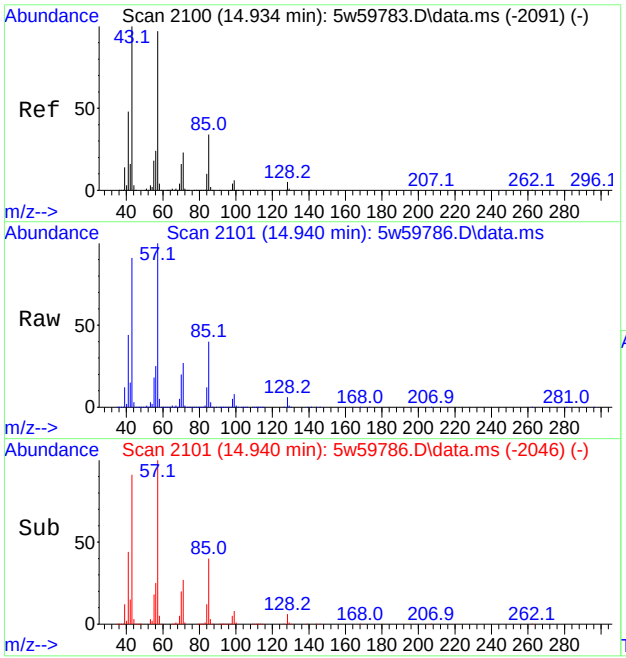


#82
STYRENE
Concen: 37.26 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:104 Resp: 7405410

Ion	Ratio	Lower	Upper
104	100		
78	43.4	13.3	73.3
103	48.7	17.2	77.2

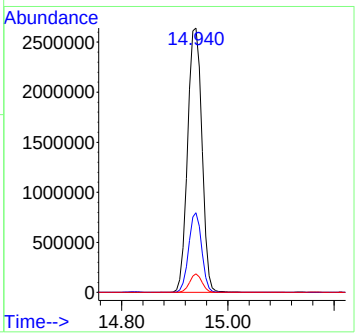


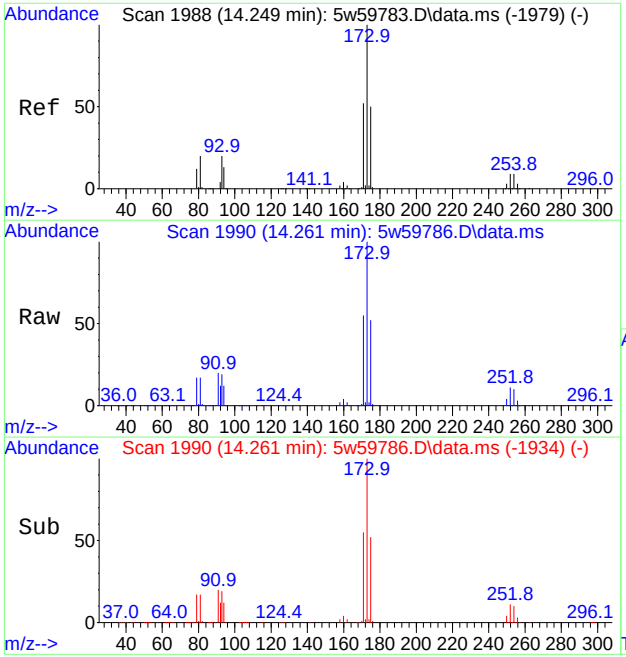


#83
NONANE
Concen: 27.57 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 4961142

Ion	Ratio	Lower	Upper
43	100		
71	27.5	0.0	52.7
128	6.1	0.0	34.7

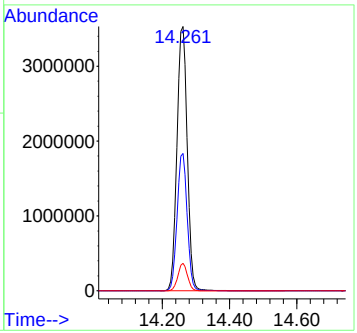


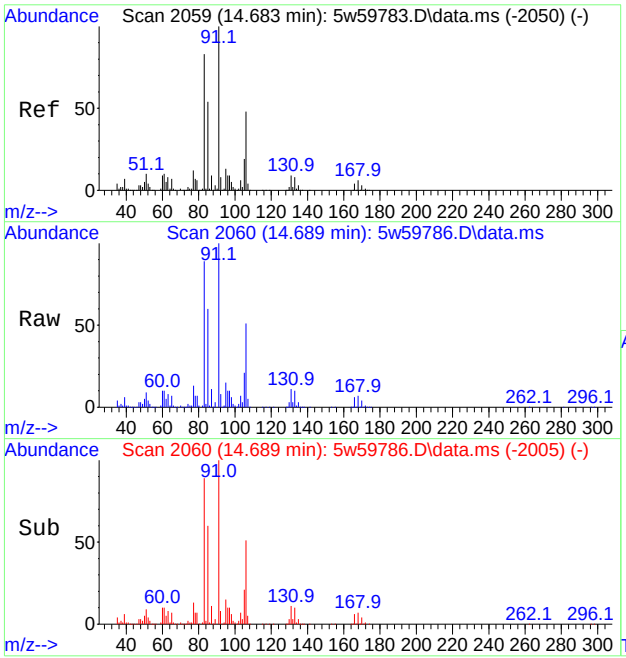


#84
BROMOFORM
Concen: 32.02 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:173 Resp: 7504388

Ion	Ratio	Lower	Upper
173	100		
175	51.0	19.6	79.6
254	9.8	0.0	39.0

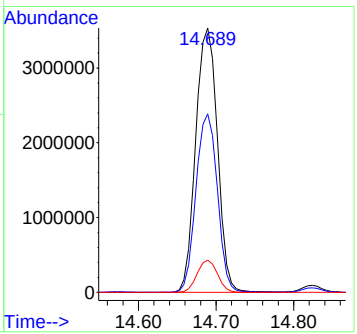


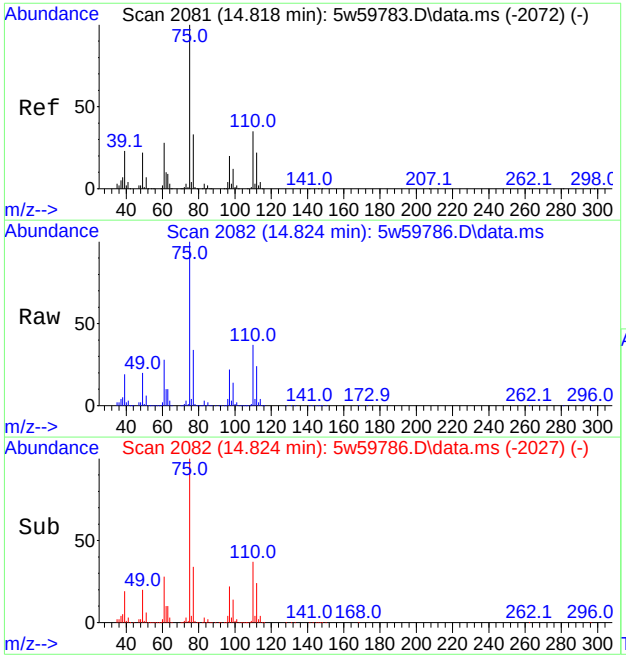


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 29.32 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6869258

Ion	Ratio	Lower	Upper
83	100		
85	66.6	35.2	95.2
131	11.5	0.0	40.3

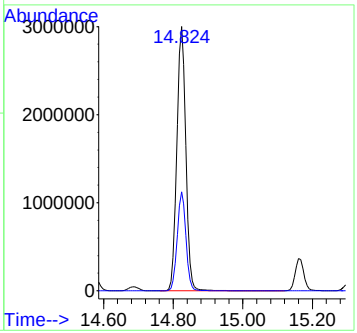


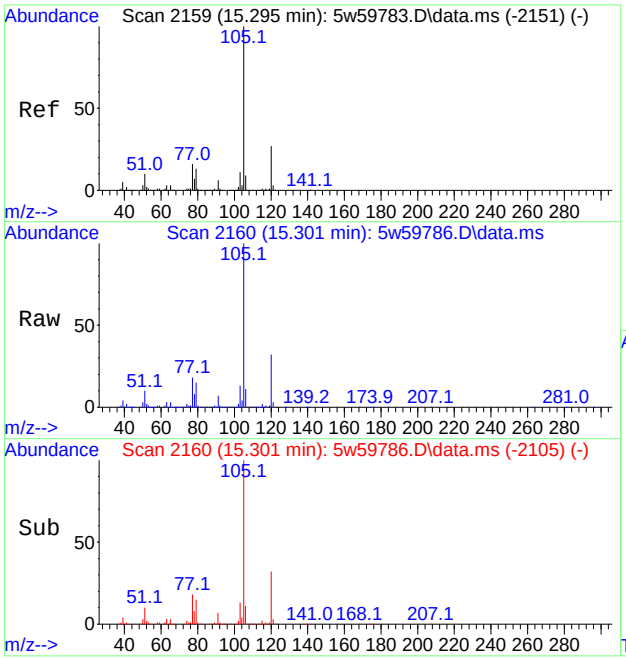


#87
1,2,3-TRICHLOROPROPANE
Concen: 29.33 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5400423

Ion	Ratio	Lower	Upper
75	100		
110	36.5	4.4	64.4

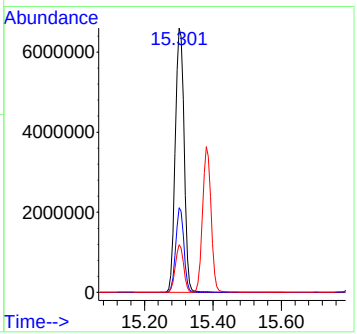


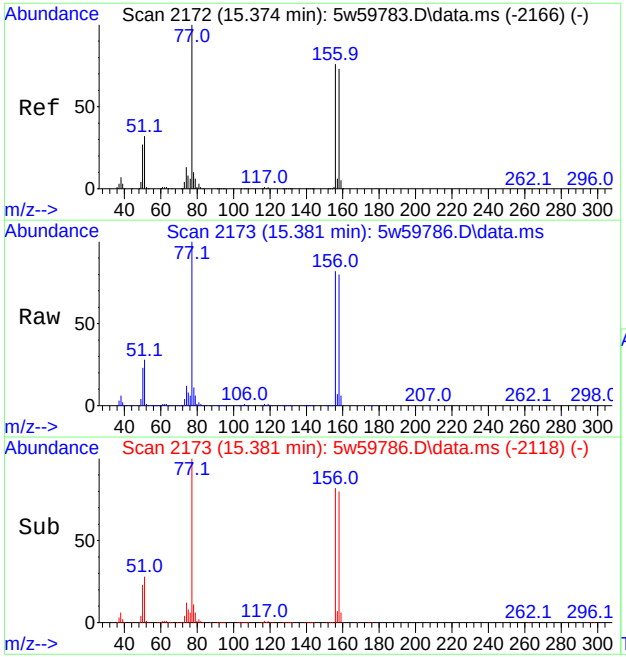


#88
ISOPROPYLBENZENE
Concen: 28.72 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11977220

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	56.0
77	16.8	0.0	45.6

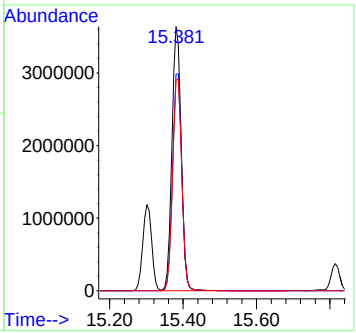


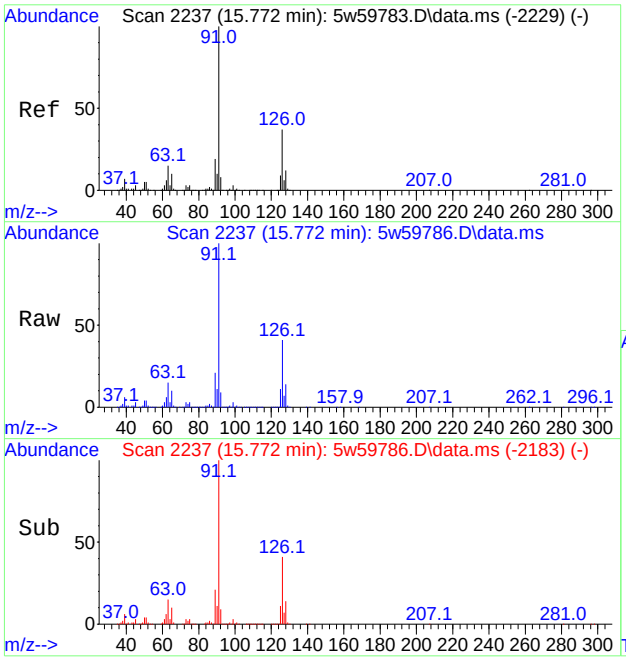


#89
BROMOBENZENE
Concen: 29.55 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 77 Resp: 6360723

Ion	Ratio	Lower	Upper
77	100		
156	82.5	54.9	101.9
158	80.2	53.5	99.3

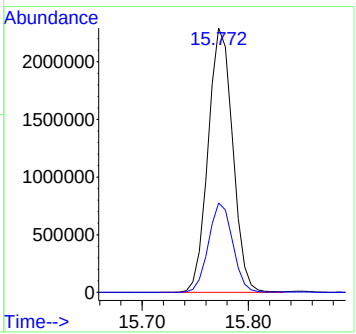


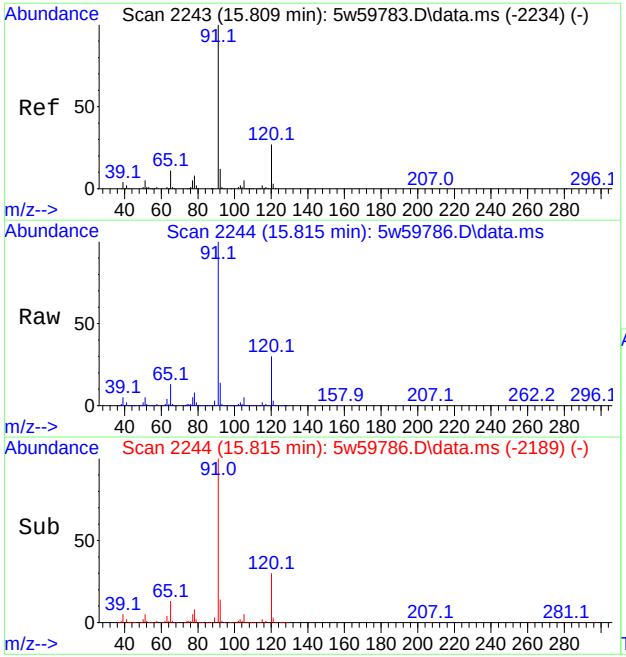


#90
2-CHLOROTOLUENE
Concen: 32.56 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:126 Resp: 3685448

Ion	Ratio	Lower	Upper
126	100		
128	33.2	2.7	62.7

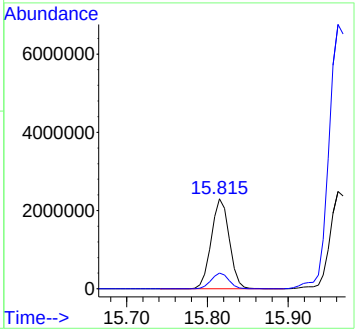


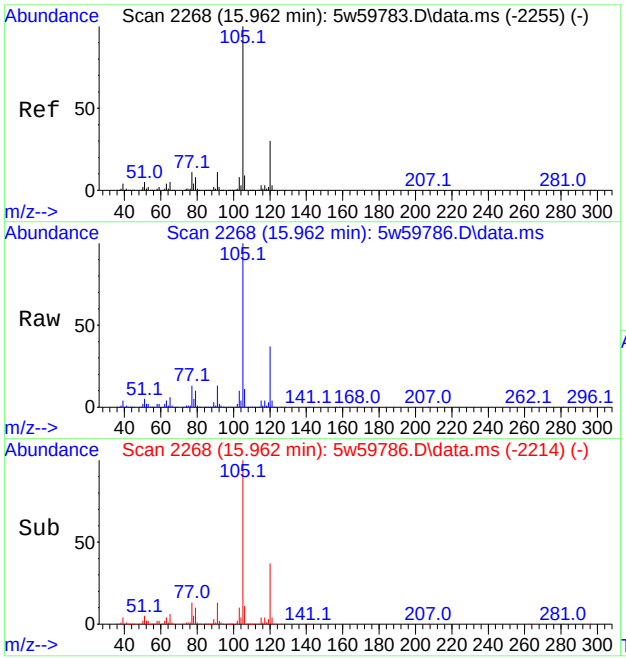


#91
n-PROPYLBENZENE
Concen: 31.94 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:120 Resp: 3584454

Ion	Ratio	Lower	Upper
120	100		
105	17.1	0.0	47.0

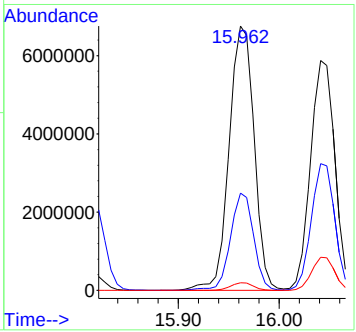


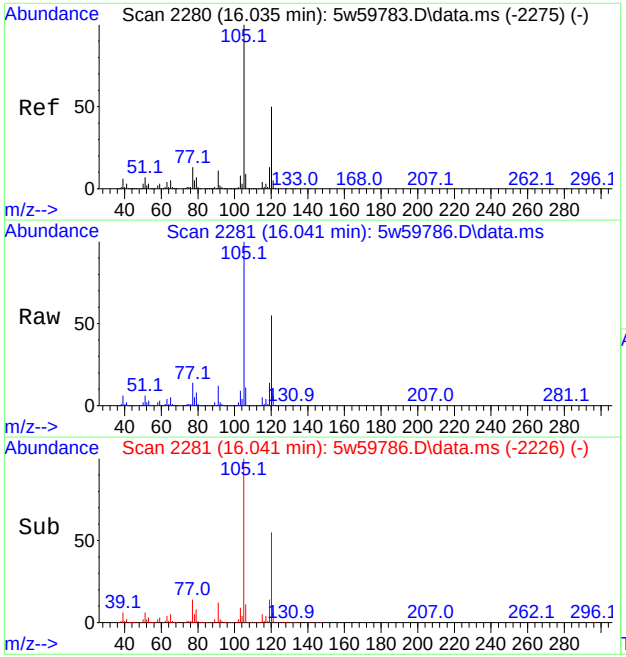


#92
4-ETHYLTOLUENE
Concen: 30.19 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11670979

Ion	Ratio	Lower	Upper
105	100		
120	34.0	0.0	59.9
119	2.7	0.0	32.3

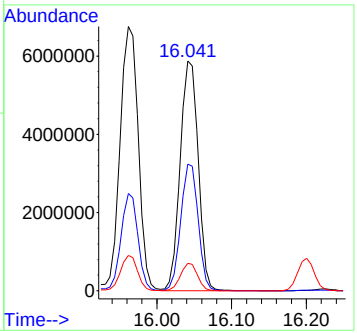


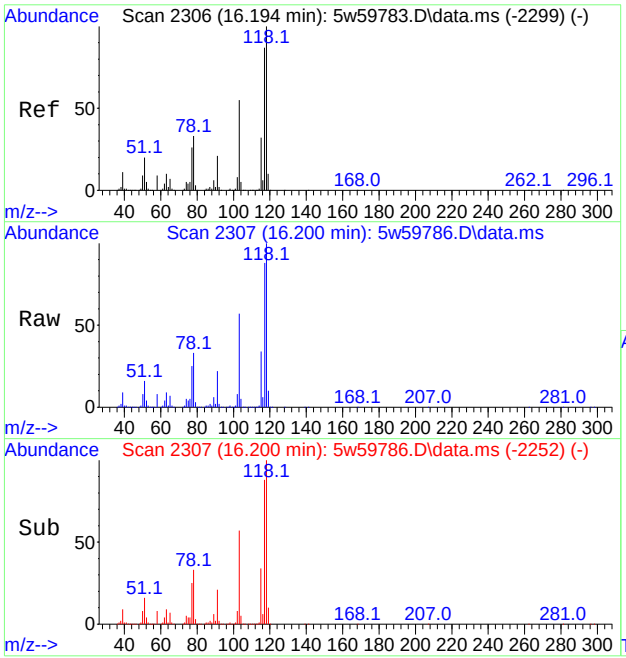


#93
1,3,5-TRIMETHYLBENZENE
Concen: 28.34 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9865714

Ion	Ratio	Lower	Upper
105	100		
120	53.1	19.4	79.4
91	11.4	0.0	40.8

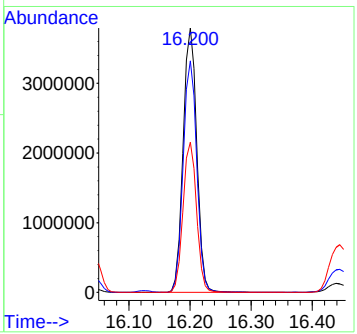


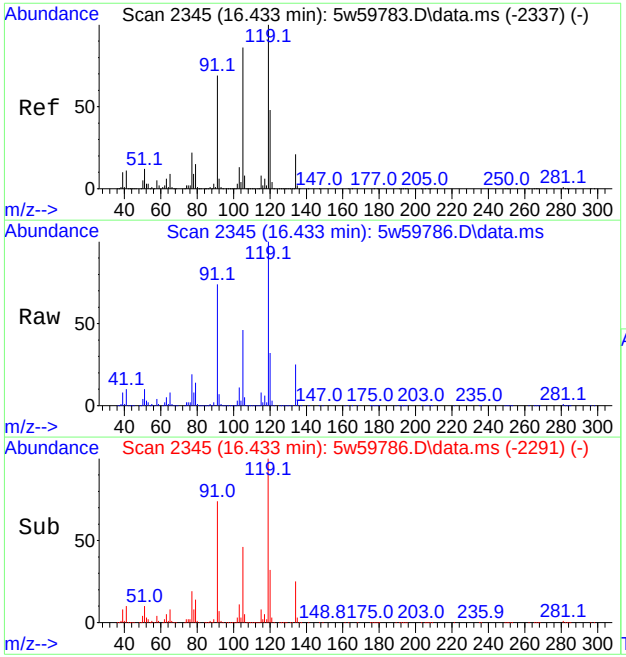


#94
ALPHA-METHYLSTYRENE
Concen: 33.71 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:118 Resp: 5900787

Ion	Ratio	Lower	Upper
118	100		
117	87.6	60.9	113.1
103	56.3	38.6	71.8

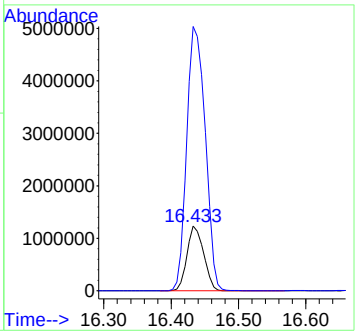


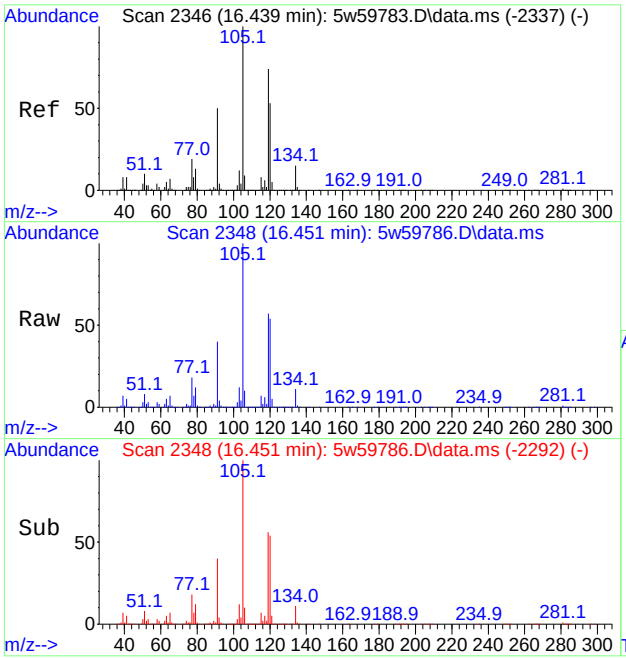


#95
tert-BUTYLBENZENE
Concen: 28.46 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2122779

Ion	Ratio	Lower	Upper
134	100		
119	455.7	459.3	519.3#

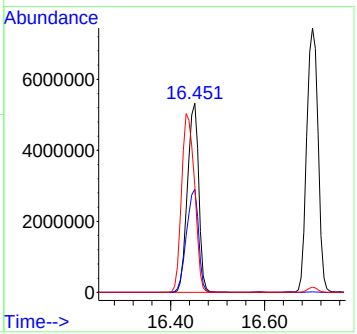


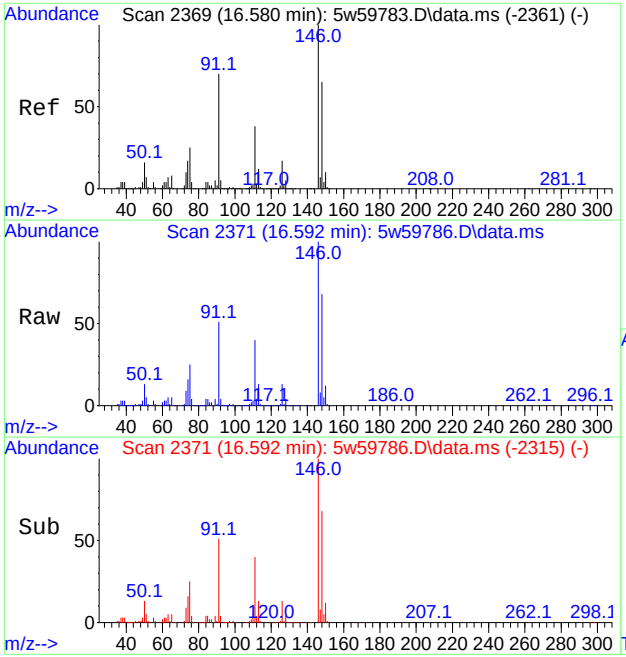


#96
1,2,4-TRIMETHYLBENZENE
Concen: 26.06 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 8886934

Ion	Ratio	Lower	Upper
105	100		
120	58.6	25.7	85.7
119	108.9	75.7	135.7

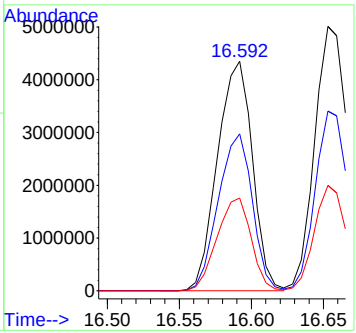


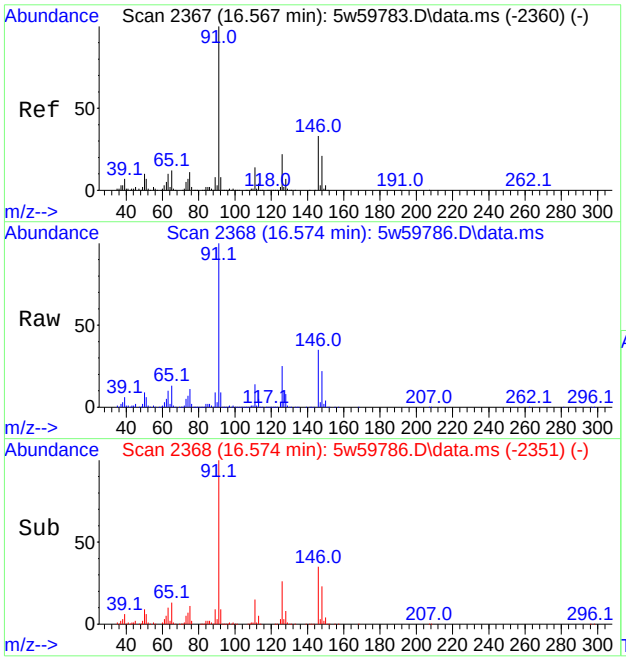


#97
m-DICHLOROBENZENE
Concen: 27.06 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7359121

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.8	94.8
111	39.4	8.2	68.2

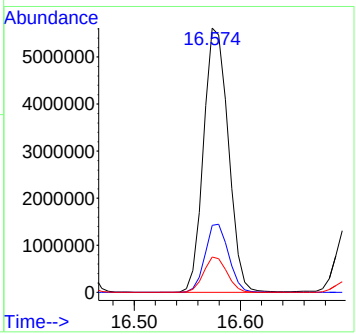


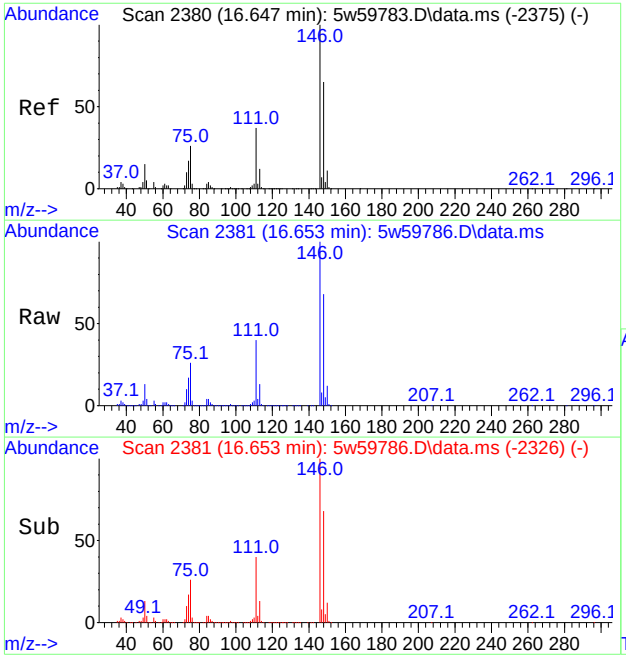


#98
BENZYL CHLORIDE
Concen: 28.12 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp: 9095992

Ion	Ratio	Lower	Upper
91	100		
126	24.6	0.0	51.7
65	12.7	0.0	42.2

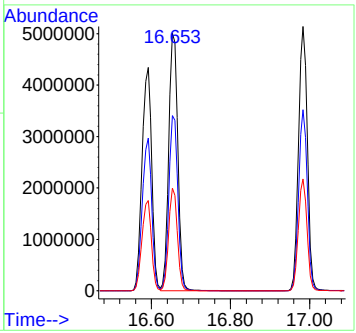


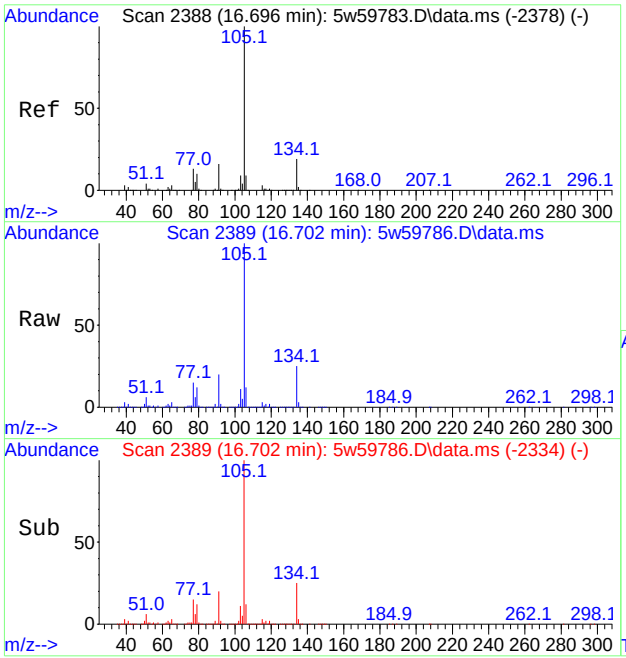


#99
p-DICHLOROBENZENE
Concen: 28.96 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7993903

Ion	Ratio	Lower	Upper
146	100		
148	67.0	34.6	94.6
111	38.3	6.7	66.7

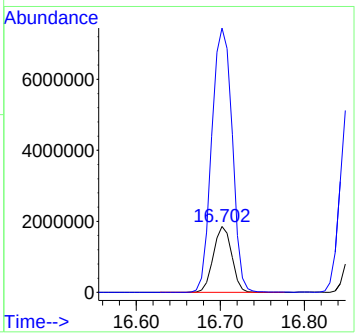


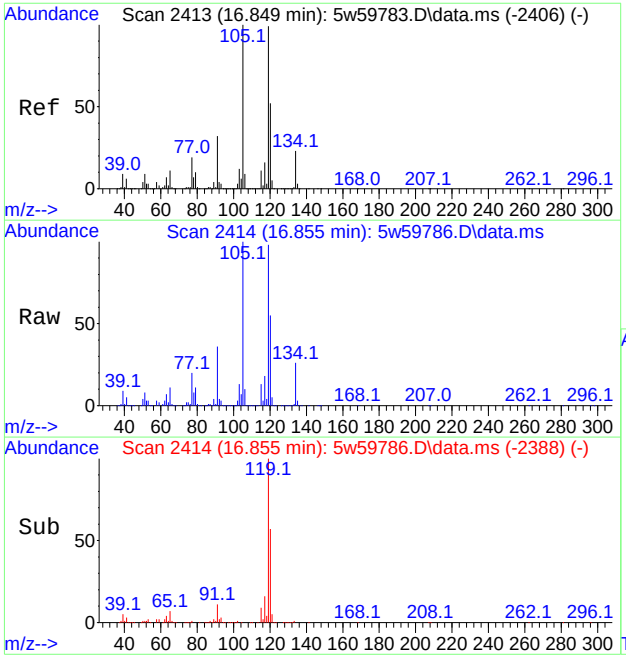


#100
sec-BUTYLBENZENE
Concen: 30.67 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2827725

Ion	Ratio	Lower	Upper
134	100		
105	445.7	502.5	562.5#

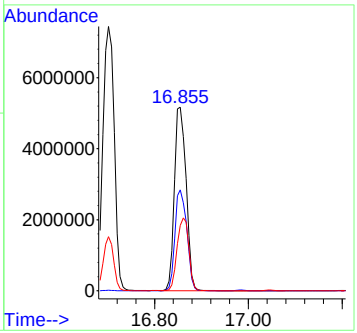


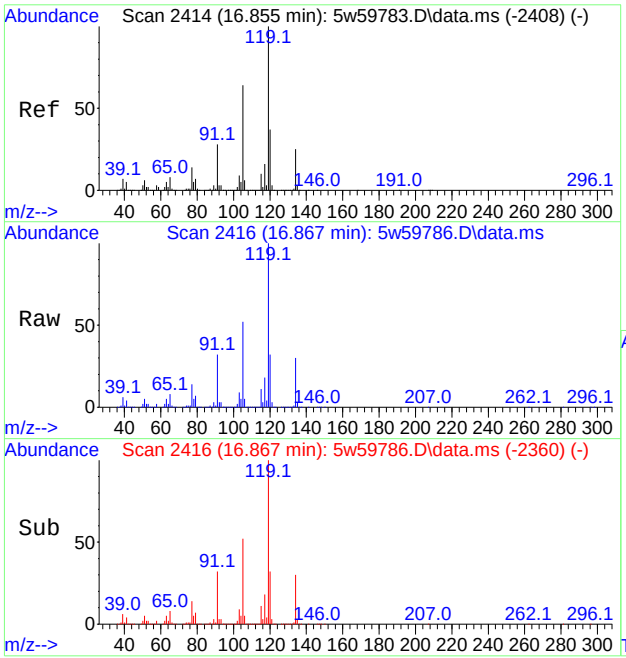


#101
1,2,3-TRIMETHYLBENZENE
Concen: 24.94 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9024748

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	39.4	7.4	67.4

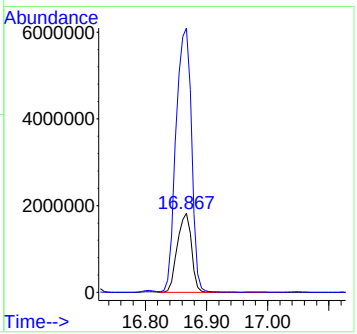


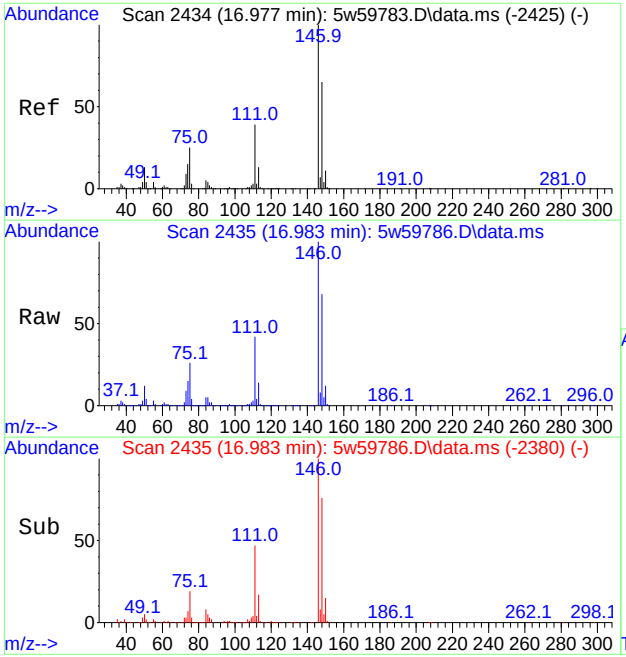


#102
p-ISOPROPYLTOLUENE
Concen: 27.10 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2924462

Ion	Ratio	Lower	Upper
134	100		
119	367.4	377.7	437.7#

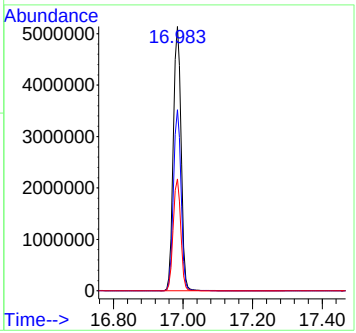


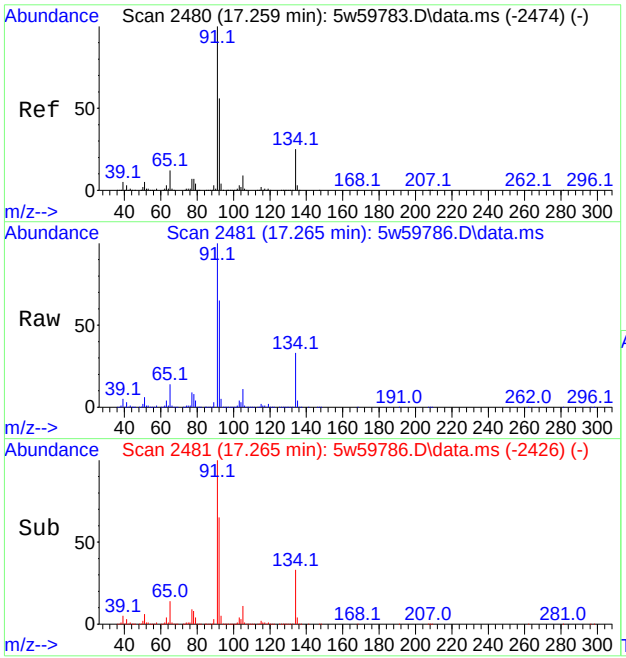


#103
o-DICHLOROBENZENE
Concen: 29.61 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7985671

Ion	Ratio	Lower	Upper
146	100		
148	67.1	34.3	94.3
111	41.2	9.2	69.2

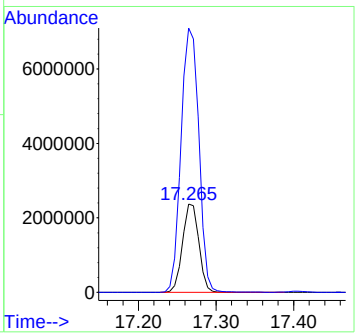


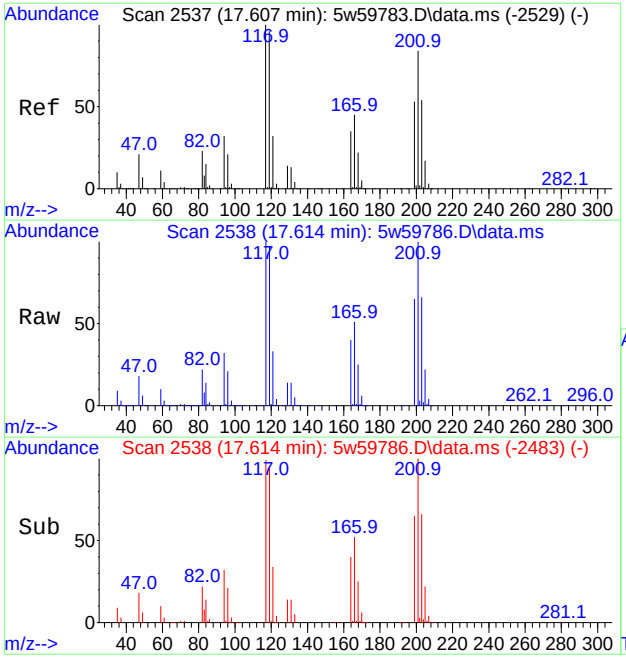


#104
n-BUTYLBENZENE
Concen: 34.55 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 3481921

Ion	Ratio	Lower	Upper
134	100		
91	327.2	363.1	423.1#

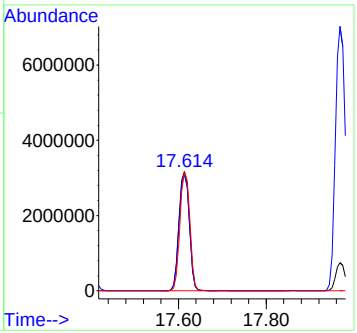


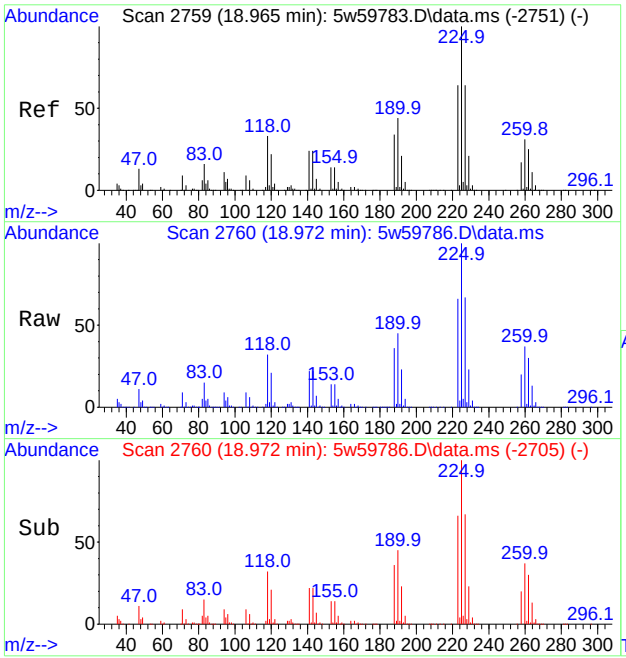


#105
HEXACHLOROETHANE
Concen: 28.92 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 5208368

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	95.1	61.1	113.5

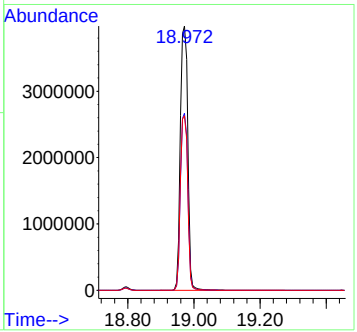


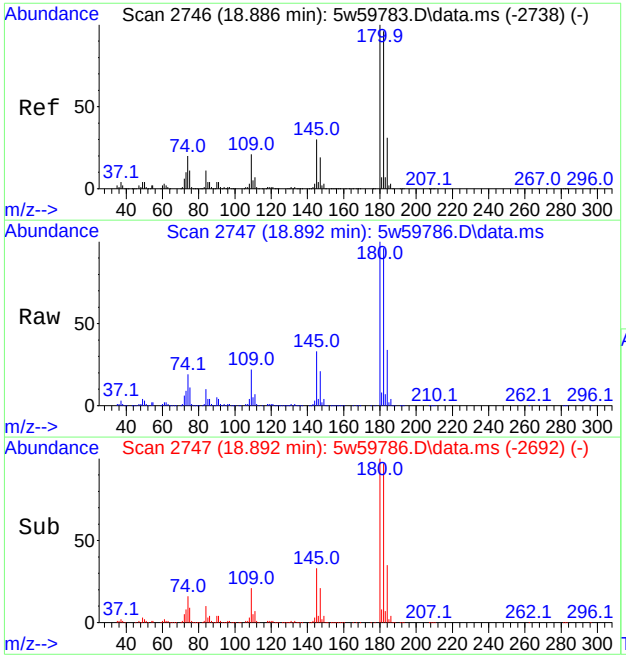


#106
HEXACHLOROBUTADIENE
Concen: 22.78 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:225 Resp: 6236008

Ion	Ratio	Lower	Upper
225	100		
227	66.2	34.2	94.2
223	65.6	33.3	93.3

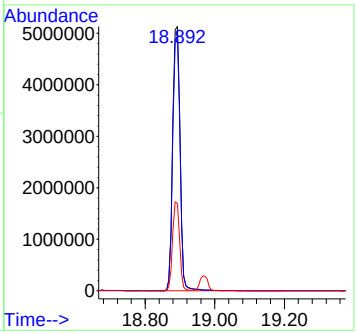


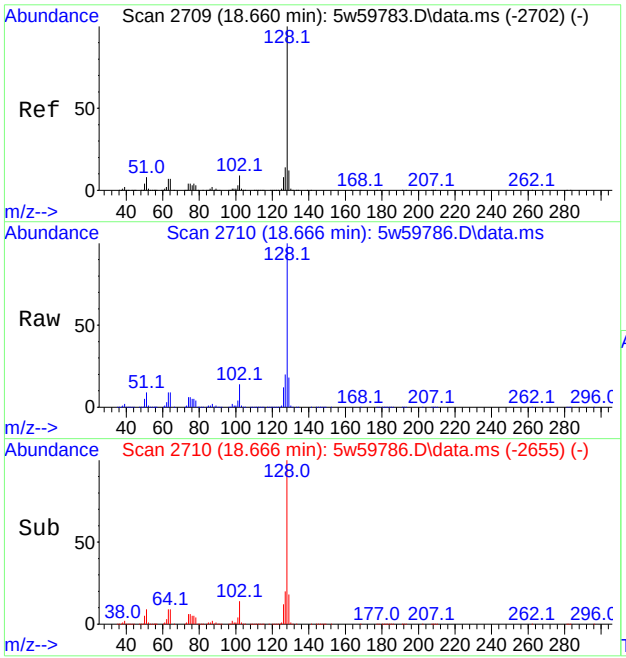


#107
1,2,4-TRICHLOROBENZENE
Concen: 32.01 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:180 Resp: 7600427

Ion	Ratio	Lower	Upper
180	100		
182	95.8	65.4	125.4
145	32.0	0.0	59.4

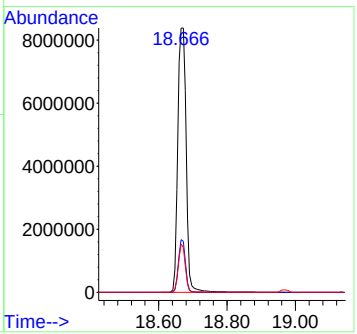


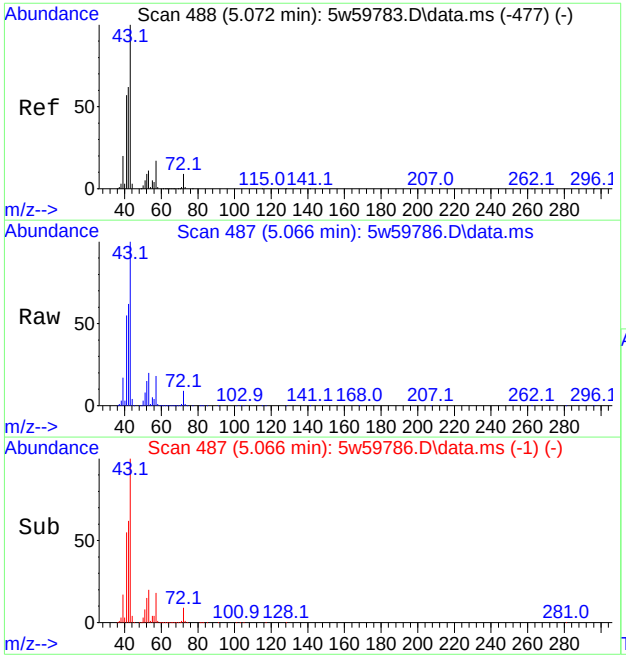


#108
NAPHTHALENE
Concen: 26.02 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:128 Resp:14205927

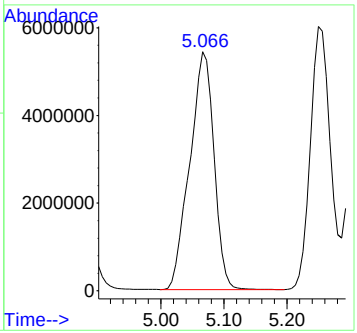
Ion	Ratio	Lower	Upper
128	100		
127	16.9	0.0	43.3
129	15.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 31.68 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:TIC Resp:14466620



Manual Integration Approval Summary

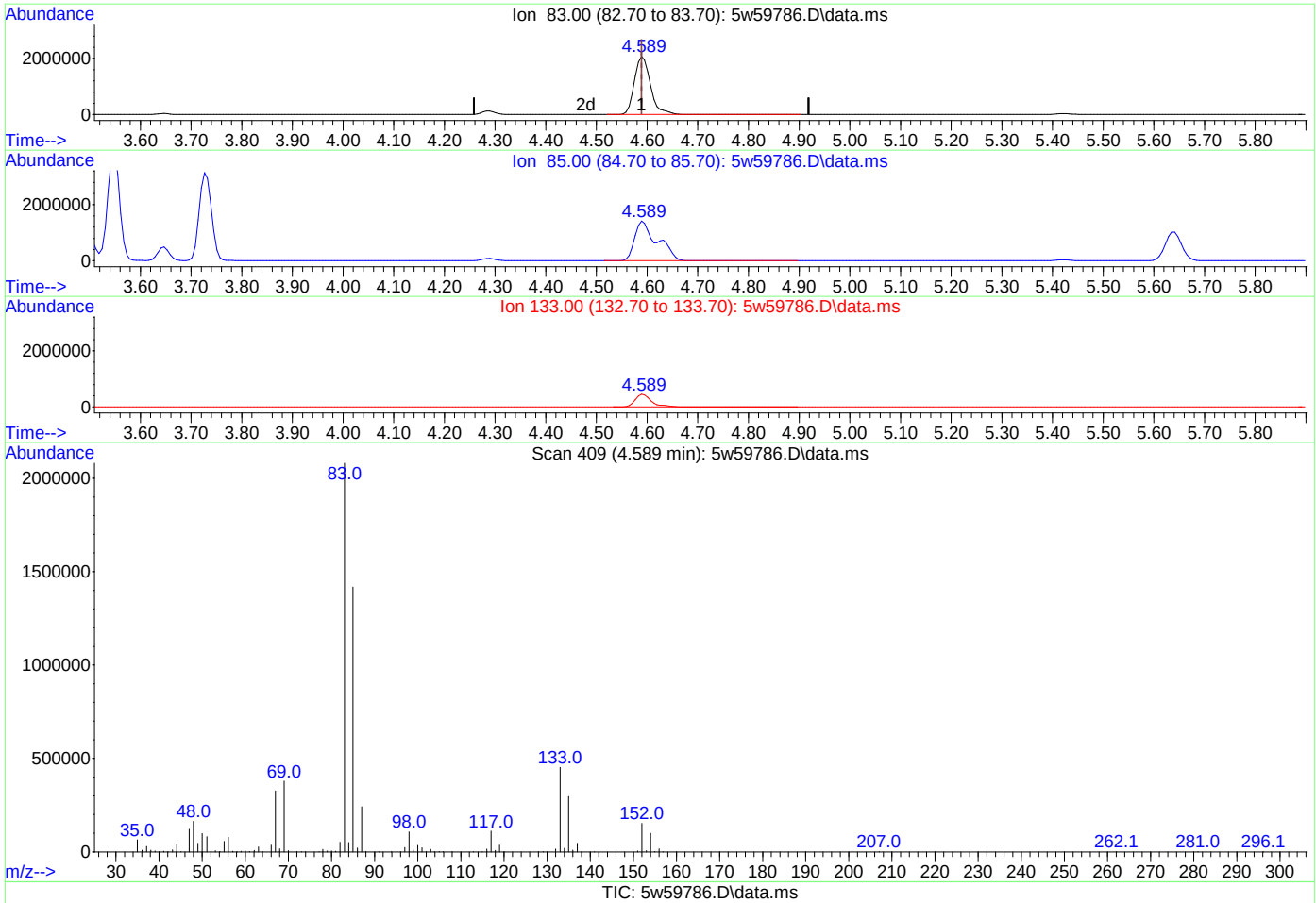
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59786.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 09:38 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV

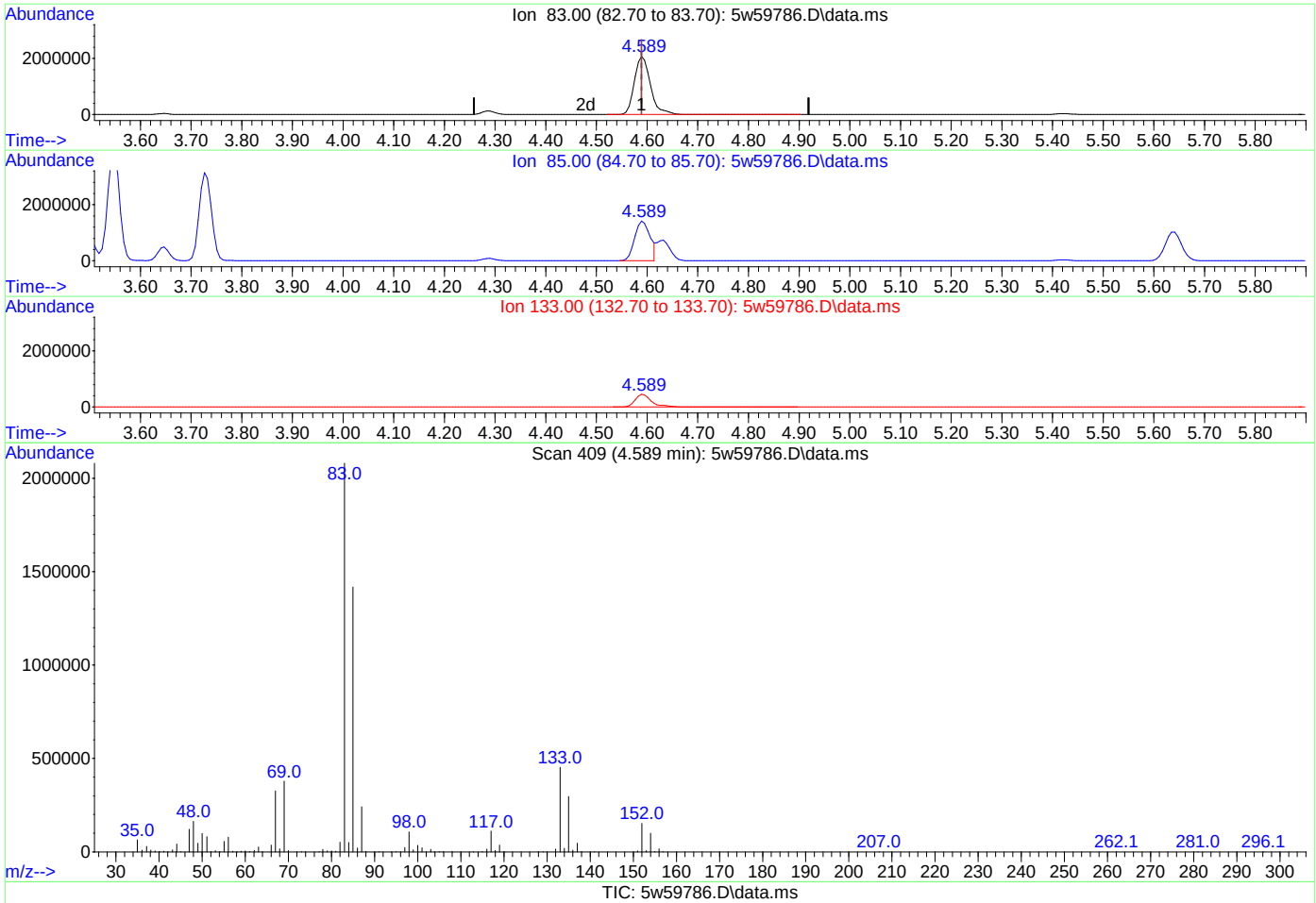
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.64#
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV m

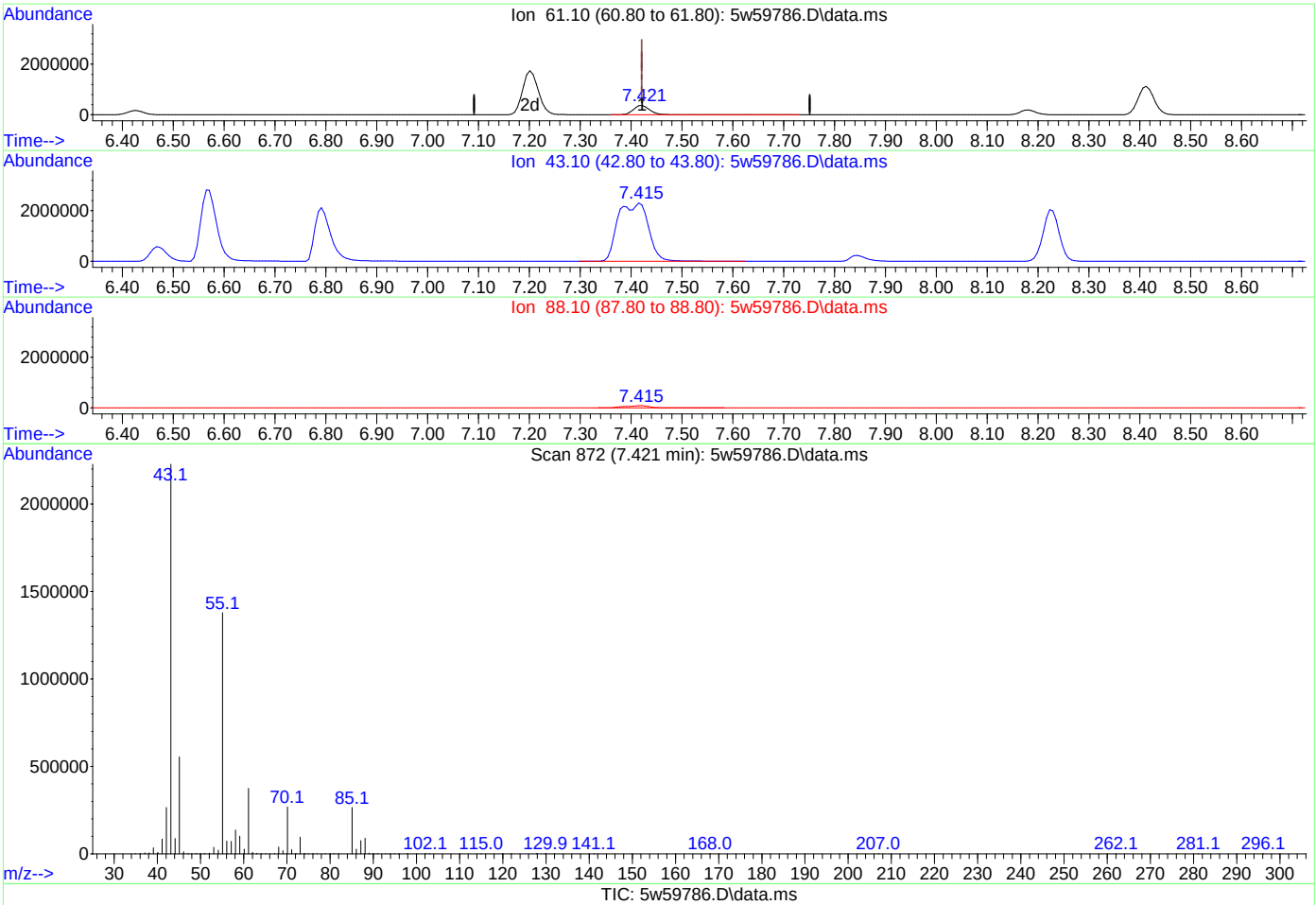
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.67
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV

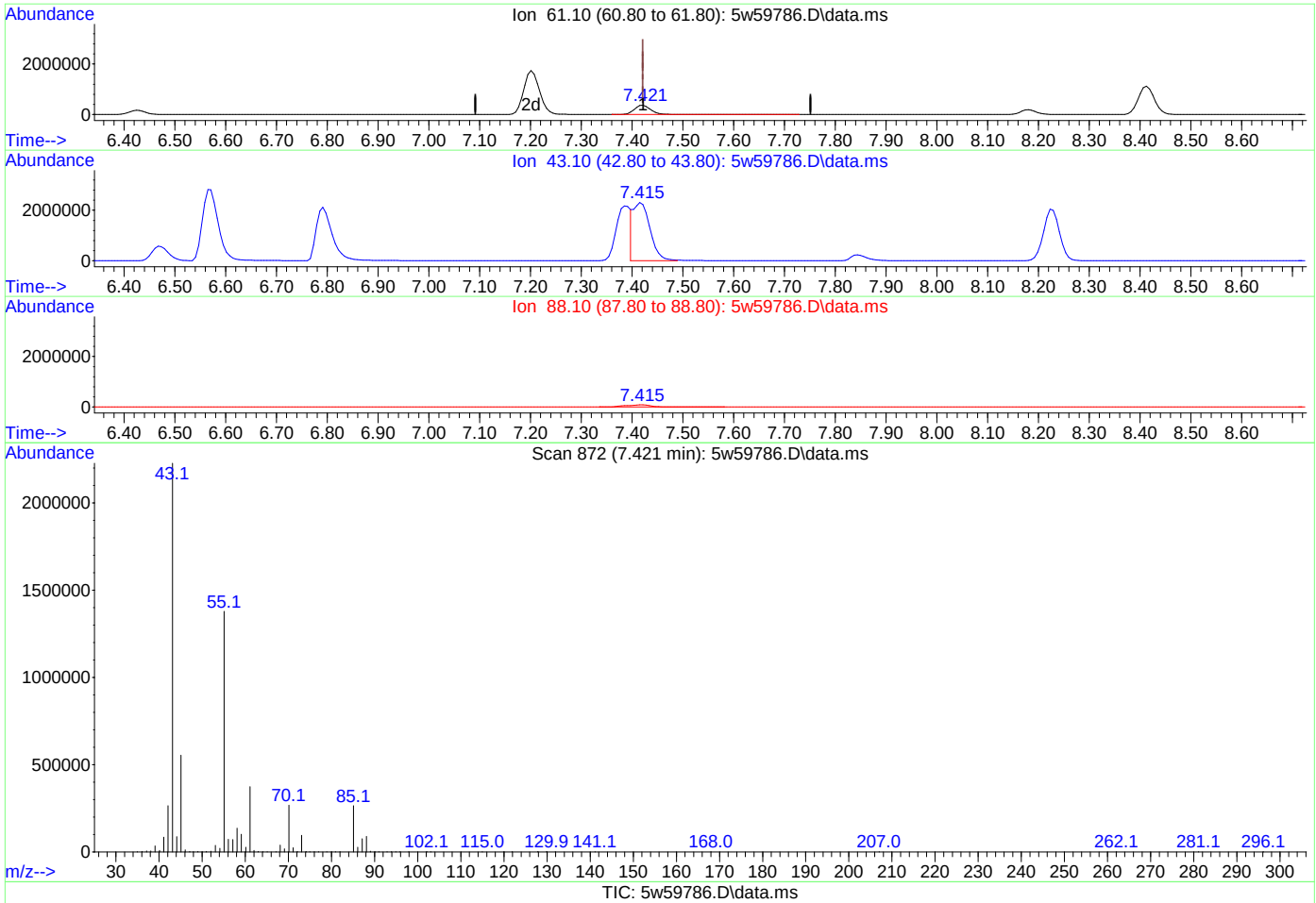
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1136.24#
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV m

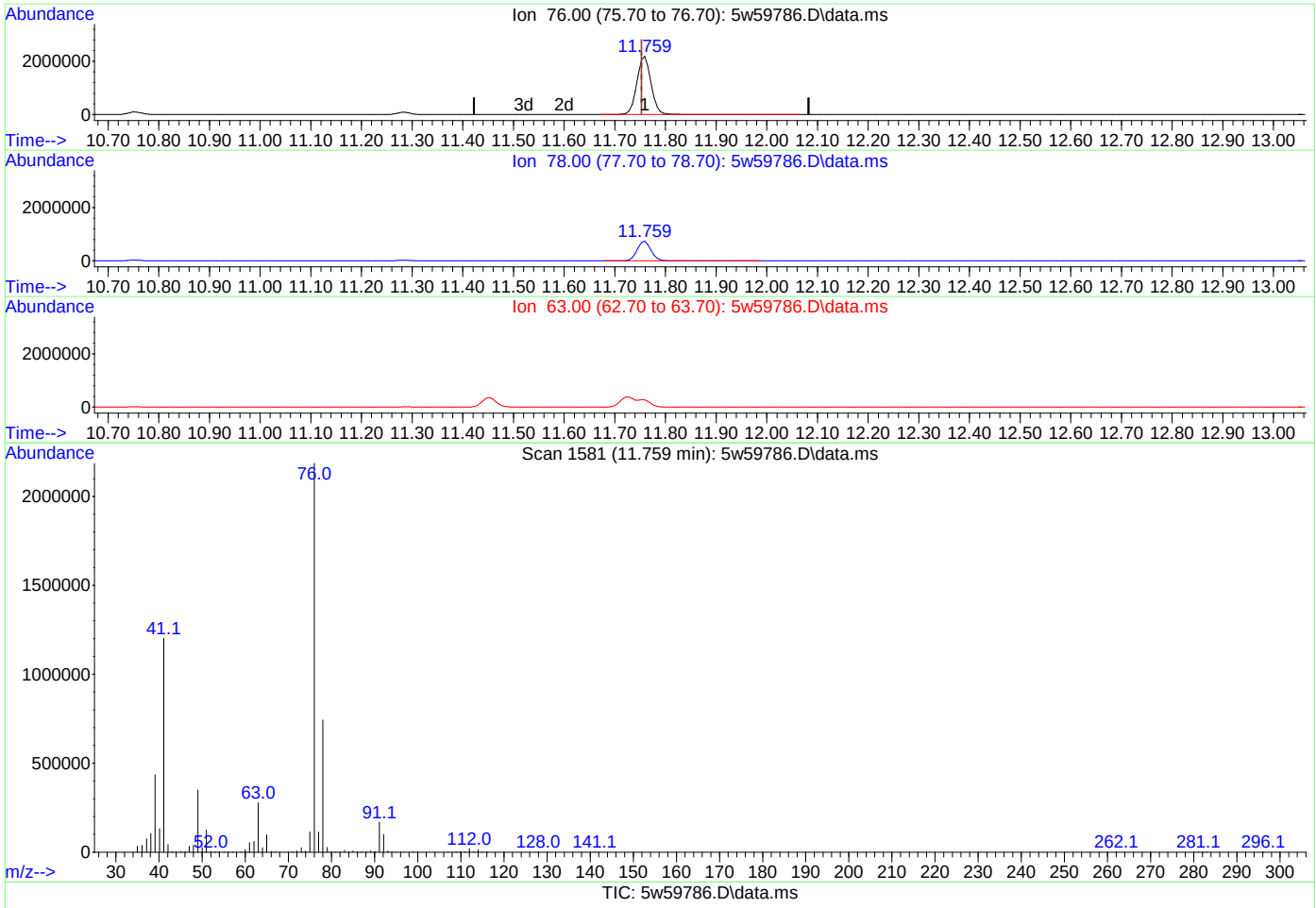
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	618.03
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV

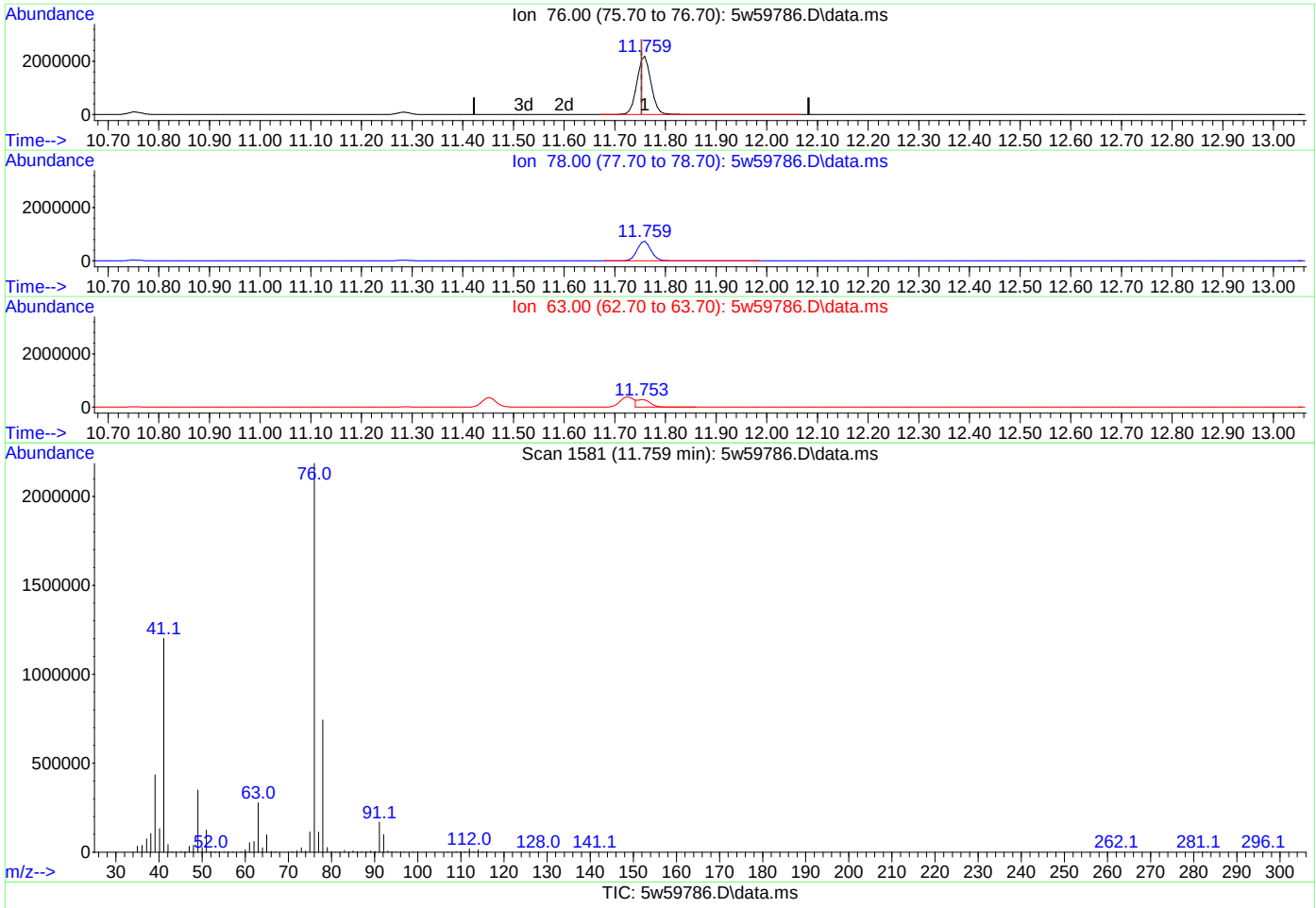
response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV m

response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	11.61
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.366	128	467614	10.00	PPBV		0.01
51) 1,4-DIFLUOROBENZENE	9.220	114	1973593	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1346242	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.366	128	467614	10.00	PPBV		0.01
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.167	95	1432127	8.79	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 87.90%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	581031	25.61	PPBV		100
3) FREON 152A	3.445	65	2109561	69.10	PPBV		94
4) CHLORODIFLUOROMETHANE	3.476	67	930907	63.03	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.506	116	4660403	63.22	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	7605378	57.48	PPBV		96
7) PROPYLENE	3.500	41	1977365	62.50	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	5527171	55.41	PPBV		98
9) FREON 114	3.733	85	6296072	53.88	PPBV		96
10) CHLOROMETHANE	3.665	52	706786	54.00	PPBV		96
11) VINYL CHLORIDE	3.818	62	2396129	54.50	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1434792	57.20	PPBV		98
13) n-BUTANE	3.947	43	2229721	56.04	PPBV		98
14) BROMOMETHANE	4.106	94	2666902	57.99	PPBV		100
15) CHLOROETHANE	4.228	64	1048912	54.16	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	5025383	54.94	PPBV		98
17) ACETONITRILE	4.479	41	1245621	52.74	PPBV		99
18) ACROLEIN	4.571	56	762905	54.68	PPBV		95
19) FREON 123	4.595	83	5407858m	53.17	PPBV		
20) FREON 123A	4.638	117	3495792	57.82	PPBV		92
21) TRICHLOROFLUOROMETHANE	4.797	101	6263951	56.50	PPBV		99
22) ISOPROPYL ALCOHOL	4.877	45	4774264	59.23	PPBV		99
23) ACETONE	4.669	58	909361	55.35	PPBV		98
24) PENTANE	5.072	42	2631624	64.00	PPBV		96
25) IODOMETHANE	5.256	142	9114140	64.39	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2972573	64.07	PPBV		93
27) CARBON DISULFIDE	5.672	76	7844304	61.73	PPBV		97
28) ETHANOL	4.320	45	782956	51.79	PPBV		100
29) BROMOETHENE	4.479	106	2638149	57.30	PPBV		100
30) ACRYLONITRILE	5.048	52	1983513	68.16	PPBV		99
31) METHYLENE CHLORIDE	5.427	84	2586702	62.87	PPBV		95
32) 3-CHLOROPROPENE	5.525	76	1356999	64.21	PPBV	#	88
33) FREON 113	5.641	151	5255099	62.99	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	3195584	65.25	PPBV		96
35) TERTIARY BUTYL ALCOHOL	5.372	59	4989539	52.68	PPBV		98
36) METHYL TERTIARY BUTYL ...	6.473	73	7764187	63.24	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1279396	65.77	PPBV		96
38) HEXANE	7.385	57	4098725	58.34	PPBV		91
39) VINYL ACETATE	6.571	86	595335	69.16	PPBV	#	73
40) 1,1-DICHLOROETHANE	6.430	63	5580661	63.37	PPBV		98
41) METHYL ETHYL KETONE	6.791	72	1403846	68.19	PPBV	#	81
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3406006	66.53	PPBV		96
43) DIISOPROPYL ETHER	7.391	59	1304563	59.80	PPBV	#	72
44) ETHYL ACETATE	7.422	61	1009100m	62.87	PPBV		
45) METHYL ACRYLATE	7.409	55	5147084	59.04	PPBV		96
46) CHLOROFORM	7.489	83	6393103	62.45	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.229	57	5181431	62.87	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.413	97	6744194	62.23	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	7391895	61.67	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	4560398	62.85	PPBV		98
52)	BENZENE	8.859	78	8949189	67.41	PPBV		99
53)	CYCLOHEXANE	9.110	84	3590293	67.59	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1853301	67.86	PPBV		90
55)	TRICHLOROETHYLENE	9.893	95	4247994	61.05	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	3414269	61.24	PPBV		99
57)	DIBROMOMETHANE	9.642	174	4863346	64.66	PPBV		97
58)	ETHYL ACRYLATE	9.685	55	6797917	63.67	PPBV		98
59)	BROMODICHLOROMETHANE	9.862	83	7417663	61.30	PPBV		97
60)	2,2,4-TRIMETHYLPENTANE	9.924	57	11658719	56.13	PPBV		96
61)	1,4-DIOXANE	9.893	88	1844331	60.00	PPBV	#	1
62)	HEPTANE	10.193	43	4474034	63.31	PPBV		93
63)	METHYL METHACRYLATE	10.113	69	3101307	67.79	PPBV		94
64)	METHYL ISOBUTYL KETONE	10.792	58	2975343	66.58	PPBV		88
65)	cis-1,3-DICHLOROPROPENE	10.756	75	6183357	66.43	PPBV		90
66)	TOLUENE	11.728	92	6766589	65.67	PPBV		93
67)	1,3-DICHLOROPROPANE	11.759	76	5183507m	63.52	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	5535715	63.59	PPBV		93
69)	1,1,2-TRICHLOROETHANE	11.453	83	3736885	66.35	PPBV		100
71)	2-HEXANONE	12.010	58	4158676	54.00	PPBV		87
72)	ETHYL METHACRYLATE	12.034	69	5321053	53.39	PPBV		89
73)	TETRACHLOROETHYLENE	12.878	164	5112644	56.17	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.157	129	8396348	52.38	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	7189005	57.04	PPBV		100
76)	OCTANE	12.750	43	6099138	51.61	PPBV		89
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	5539677	54.07	PPBV		100
78)	CHLOROBENZENE	13.594	112	8685700	52.99	PPBV		98
79)	ETHYLBENZENE	13.992	91	13293280	52.78	PPBV		93
80)	m,p-XYLENE	14.194	106	10660694	104.01	PPBV		86
81)	o-XYLENE	14.689	106	4828440	49.93	PPBV		93
82)	STYRENE	14.579	104	8801086	56.42	PPBV		98
83)	NONANE	14.940	43	5544485	46.77	PPBV		89
84)	BROMOFORM	14.261	173	8954982	53.58	PPBV		97
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	7680268	46.70	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	6463476	53.62	PPBV		96
88)	ISOPROPYLBENZENE	15.307	105	13782072	47.61	PPBV		93
89)	BROMOBENZENE	15.387	77	7438070	50.72	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	4362530	53.10	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	4269312	52.74	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	13388380	48.02	PPBV		91
93)	1,3,5-TRIMETHYLBENZENE	16.047	105	11253685	47.79	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.200	118	6738901	50.76	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	2429034	46.98	PPBV	#	85
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	9912721	42.68	PPBV		96
97)	m-DICHLOROBENZENE	16.592	146	8350505	44.49	PPBV		97
98)	BENZYL CHLORIDE	16.580	91	10182019	42.40	PPBV		95
99)	p-DICHLOROBENZENE	16.659	146	9434738	51.05	PPBV		96
100)	sec-BUTYLBENZENE	16.702	134	3389691	52.25	PPBV	#	63
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9964483	41.33	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	3209884	42.88	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	9264152	51.54	PPBV		96
104)	n-BUTYLBENZENE	17.271	134	4068110	53.04	PPBV	#	67
105)	HEXACHLOROETHANE	17.614	117	5943910	48.19	PPBV		95
106)	HEXACHLOROBUTADIENE	18.972	225	6941797	42.04	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	8668660	50.18	PPBV		98
108)	NAPHTHALENE	18.666	128	15644412	41.73	PPBV		88
110)	TVHC as equiv Pentane	5.072	TIC	17678397	64.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

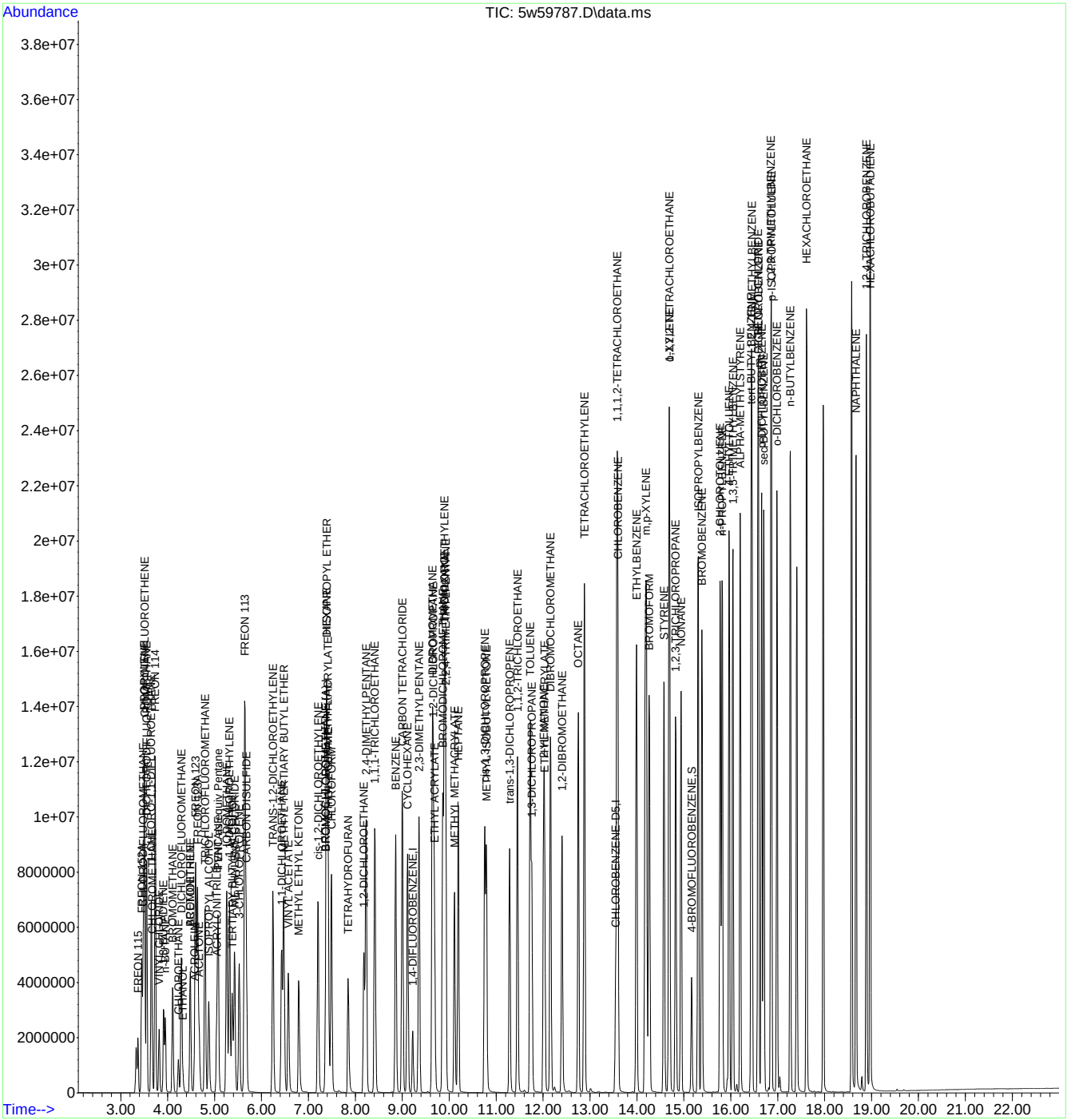
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

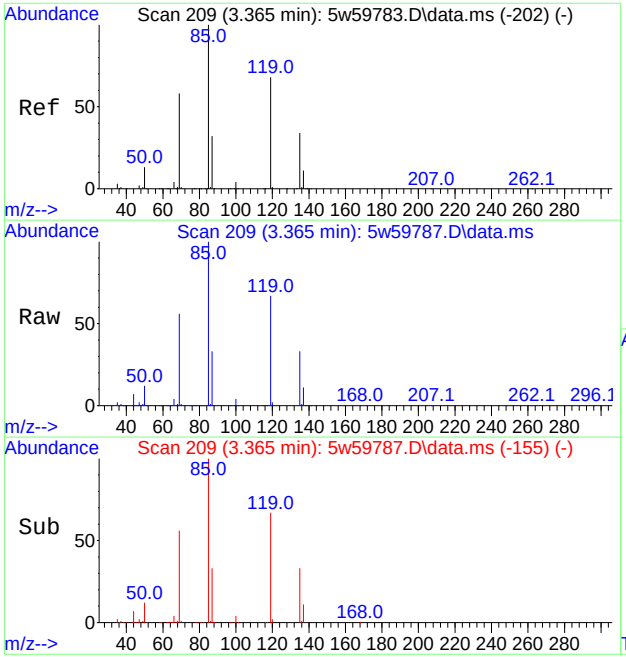
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

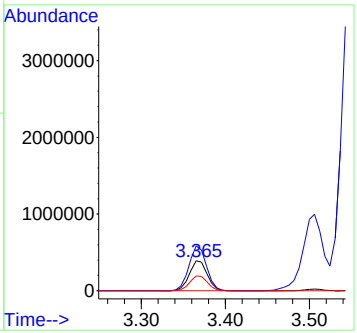


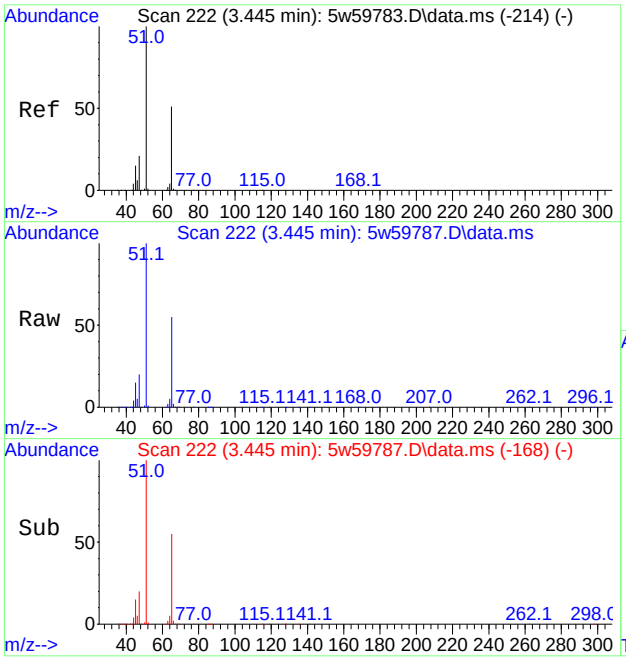


#2
FREON 115
Concen: 25.61 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:119 Resp: 581031

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.1	20.6	80.6

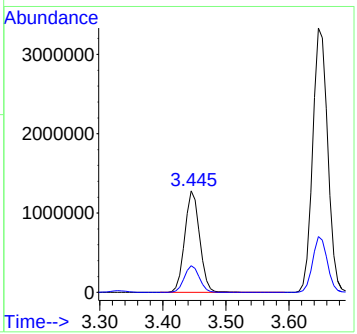


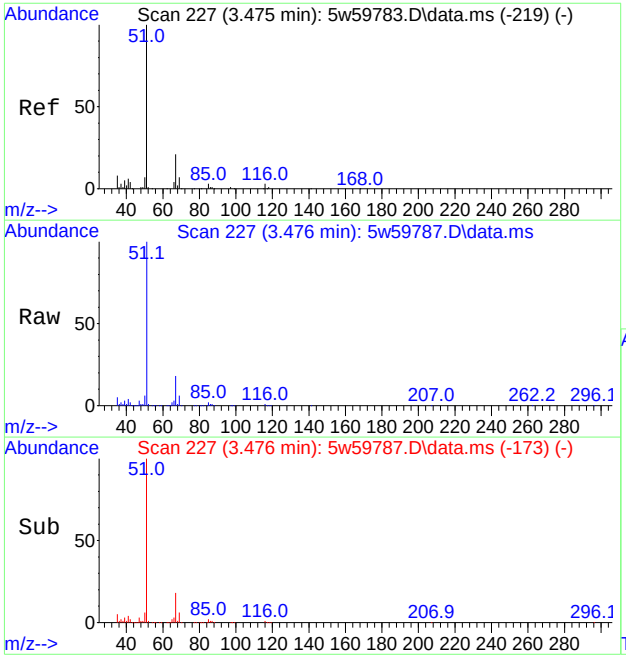


#3
FREON 152A
Concen: 69.10 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 2109561

Ion	Ratio	Lower	Upper
65	100		
45	26.7	0.0	60.0

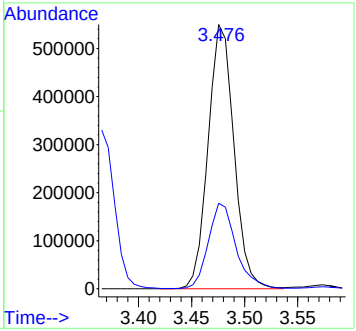


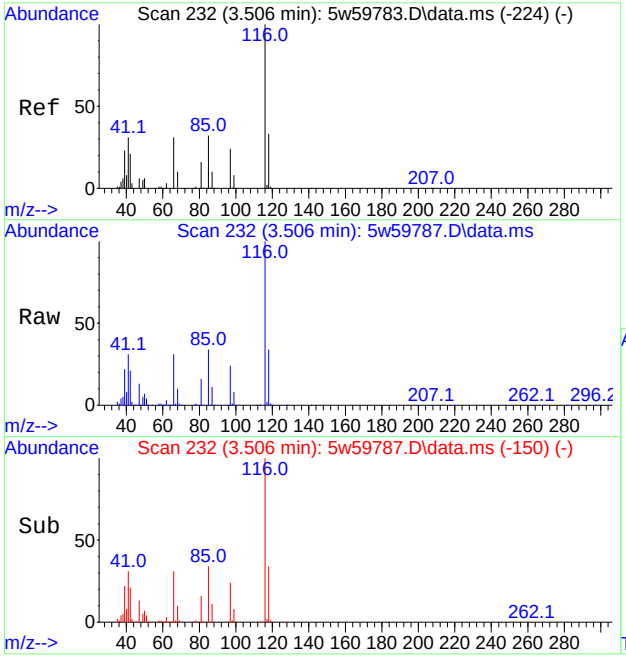


#4
CHLORODIFLUOROMETHANE
Concen: 63.03 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 930907

Ion	Ratio	Lower	Upper
67	100		
69	32.3	1.0	61.0

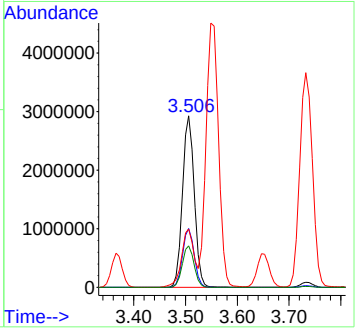


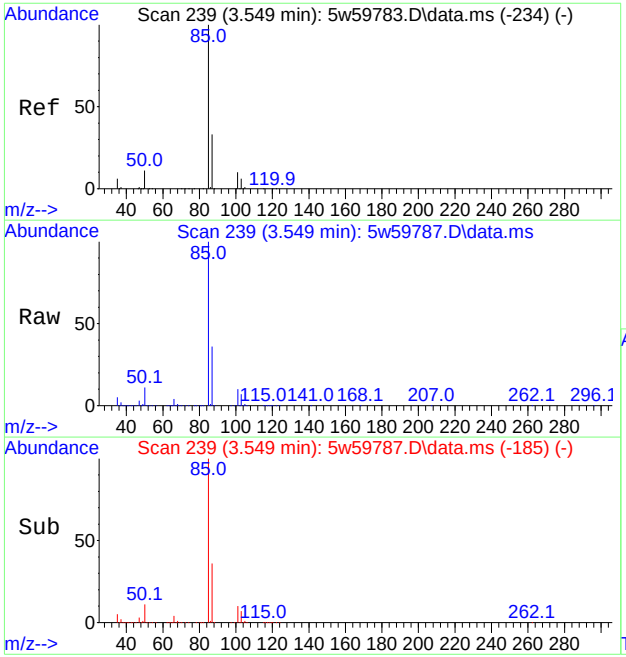


#5
CHLOROTRIFLUOROETHENE
Concen: 63.22 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:116 Resp: 4660403

Ion	Ratio	Lower	Upper
116	100		
118	33.9	22.9	42.5
85	36.8	23.7	44.1
97	24.2	17.0	31.6

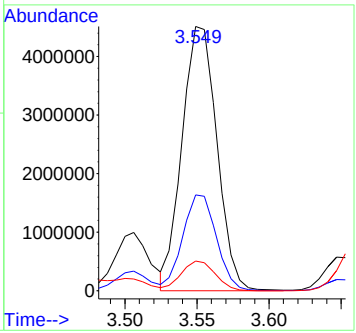


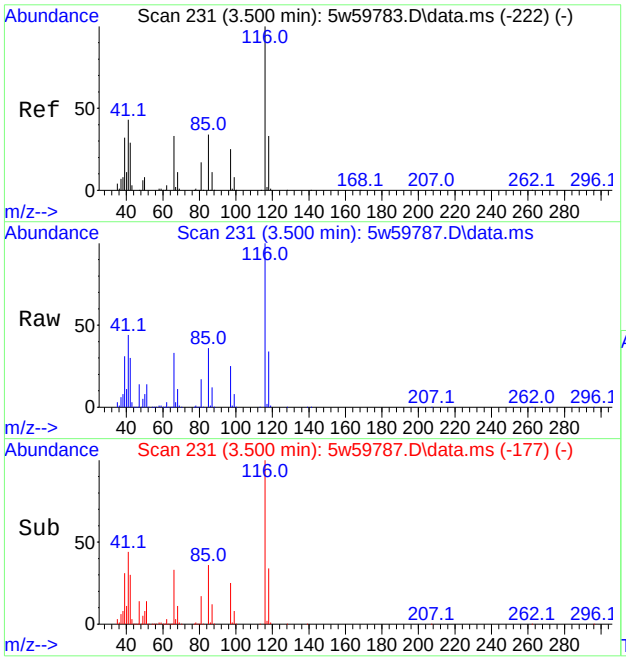


#6
DICHLORODIFLUOROMETHANE
Concen: 57.48 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 7605378

Ion	Ratio	Lower	Upper
85	100		
87	35.1	2.5	62.5
50	11.1	0.0	41.7

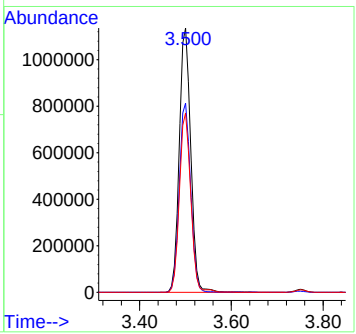


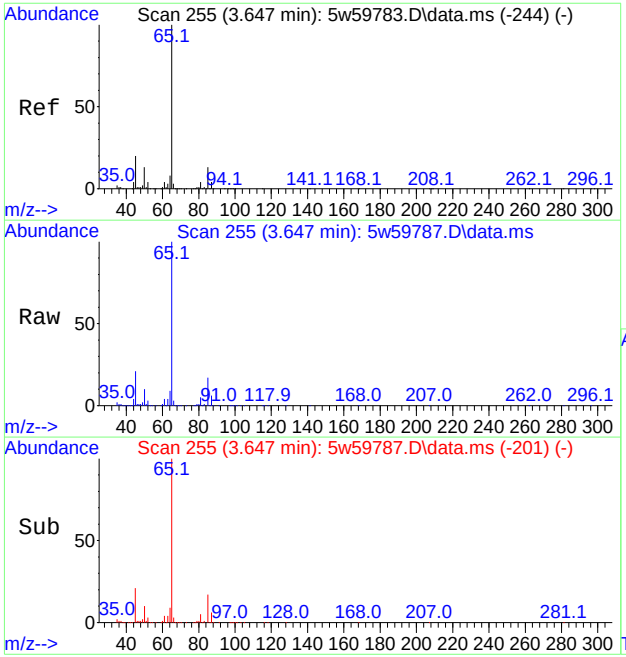


#7
PROPYLENE
Concen: 62.50 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1977365

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.3	36.3	96.3

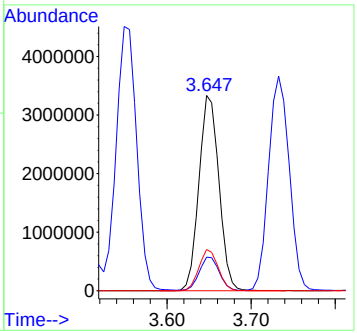


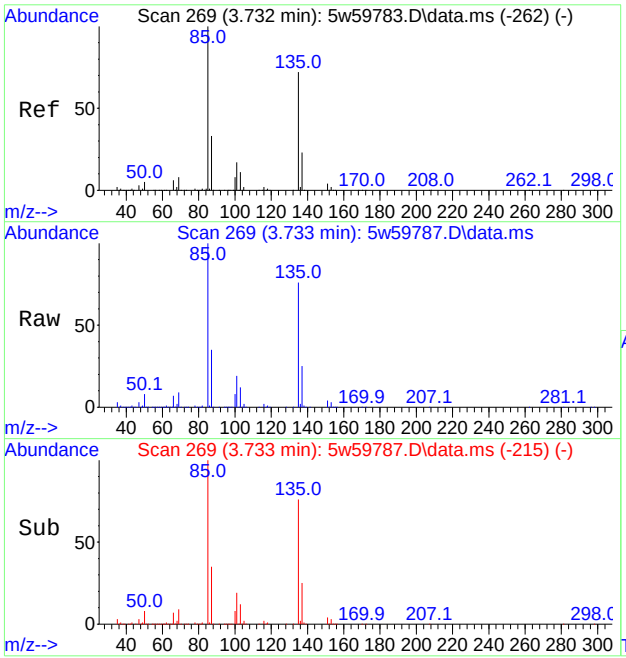


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 55.41 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 5527171

Ion	Ratio	Lower	Upper
65	100		
85	17.3	11.5	21.3
45	20.6	14.0	26.0

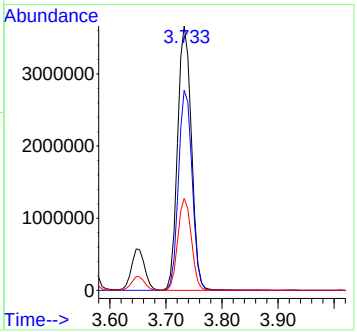


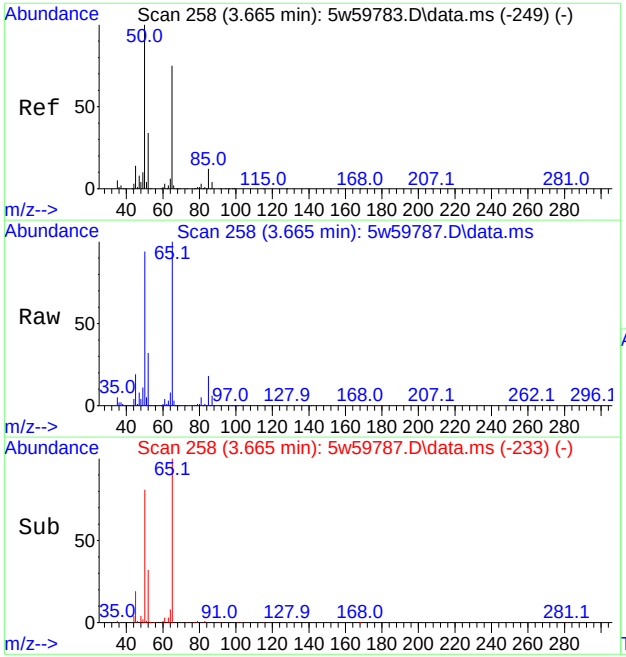


#9
FREON 114
Concen: 53.88 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 6296072

Ion	Ratio	Lower	Upper
85	100		
135	74.5	40.5	100.5
87	34.1	3.0	63.0

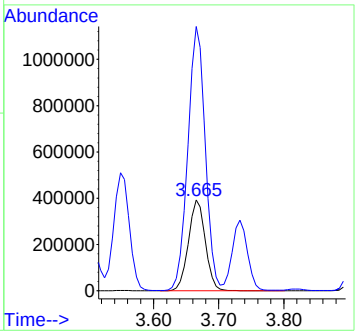


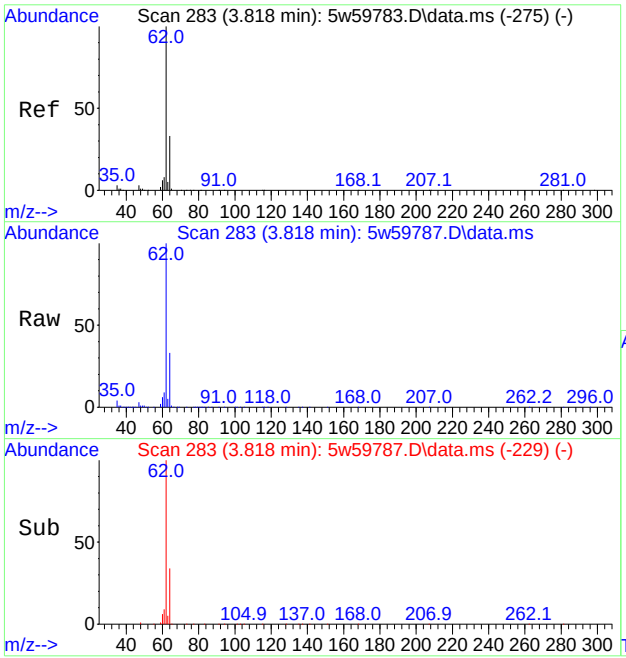


#10
CHLOROMETHANE
Concen: 54.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 706786

Ion	Ratio	Lower	Upper
52	100		
50	290.3	267.9	327.9

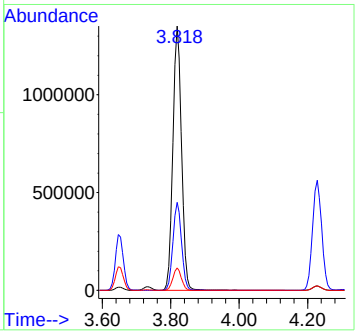


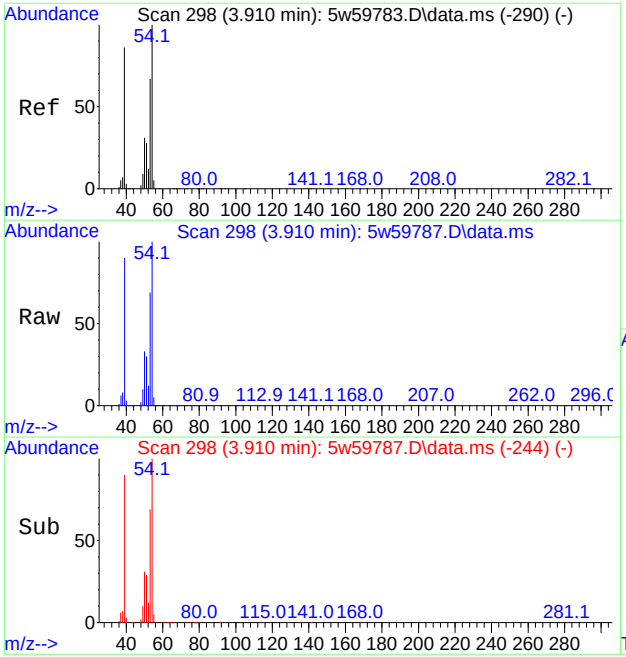


#11
VINYL CHLORIDE
Concen: 54.50 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 2396129

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

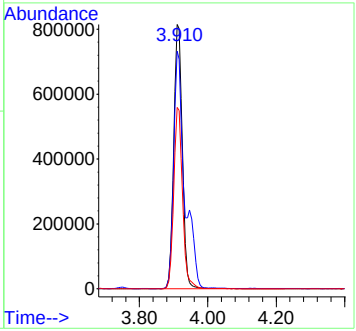


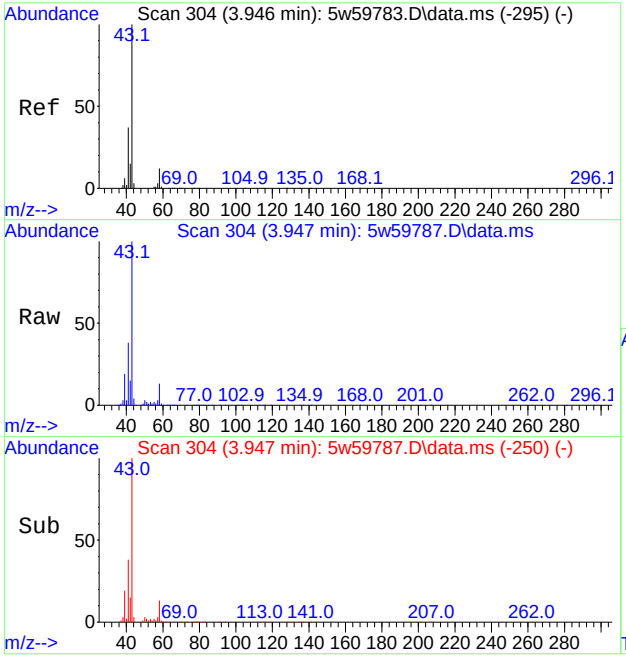


#12
1,3-BUTADIENE
Concen: 57.20 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 54 Resp: 1434792

Ion	Ratio	Lower	Upper
54	100		
39	115.1	82.0	142.0
53	70.3	40.2	100.2

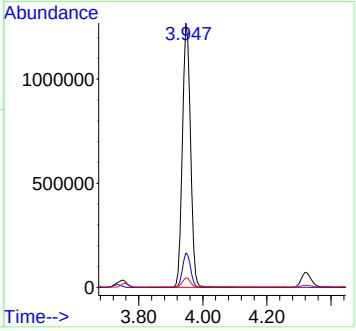


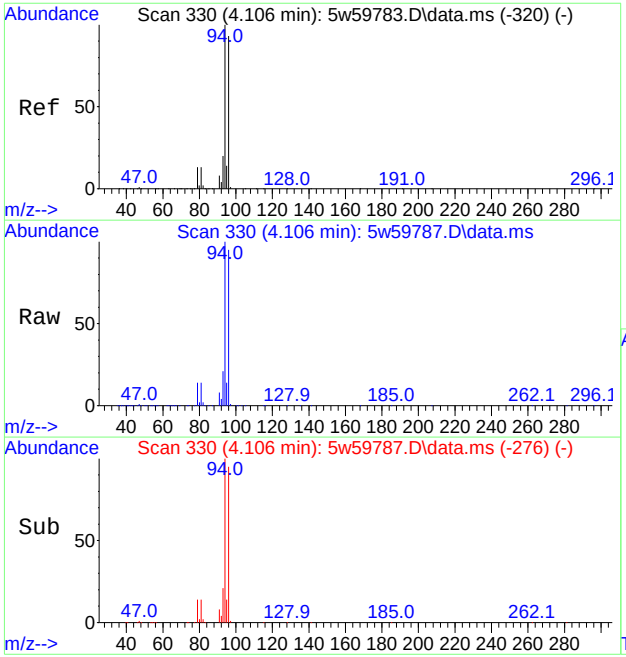


#13
n-BUTANE
Concen: 56.04 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 2229721

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.6	0.0	34.9

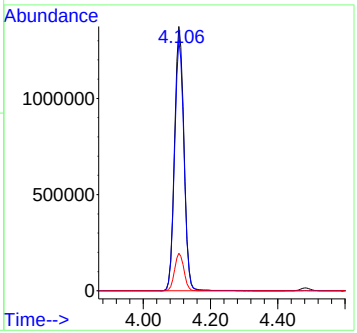


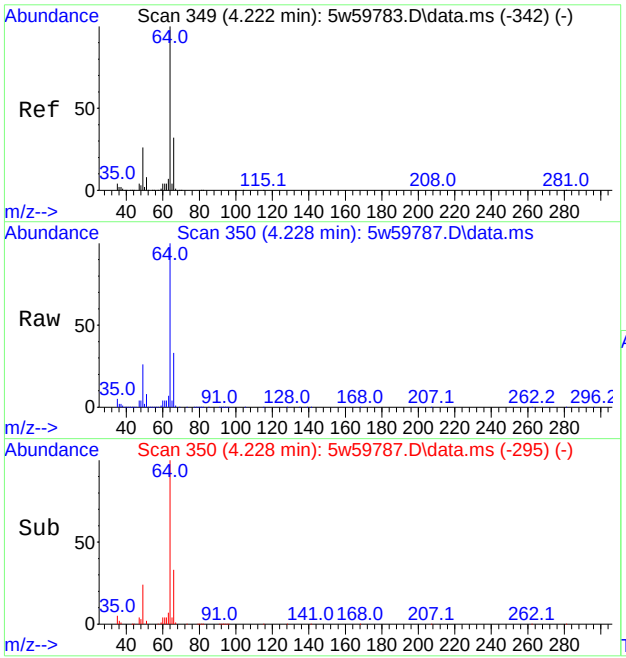


#14
BROMOMETHANE
Concen: 57.99 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 94 Resp: 2666902

Ion	Ratio	Lower	Upper
94	100		
96	94.9	65.3	125.3
95	14.2	0.0	44.1

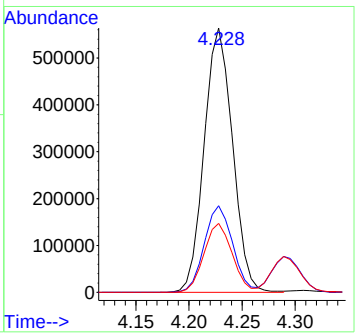


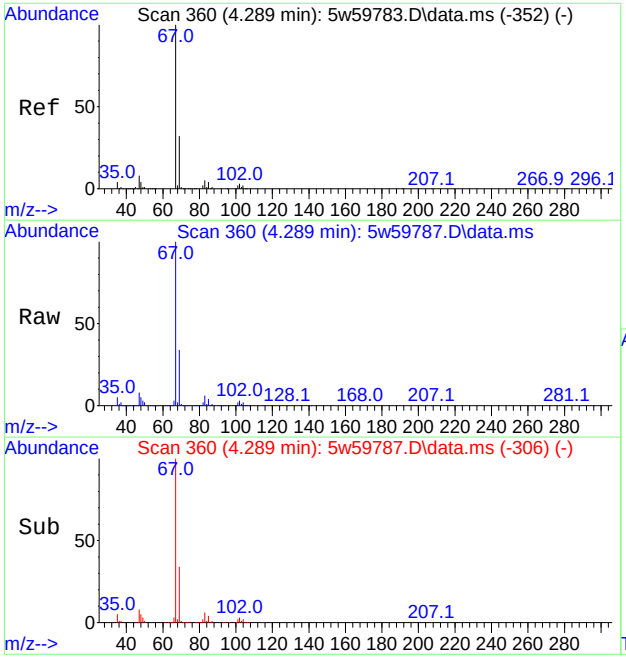


#15
CHLOROETHANE
Concen: 54.16 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 64 Resp: 1048912

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

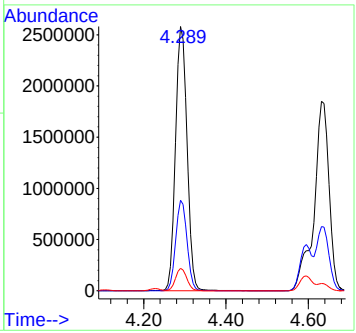


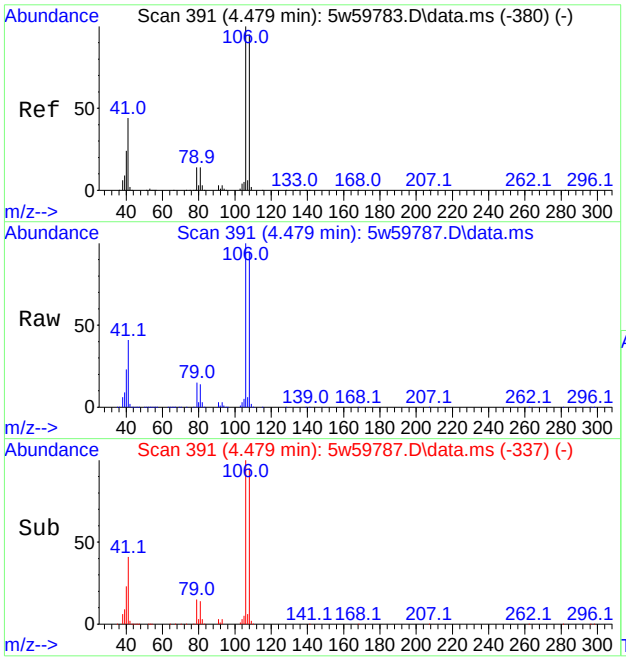


#16
DICHLOROFLUOROMETHANE
Concen: 54.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 5025383

Ion	Ratio	Lower	Upper
67	100		
69	33.7	22.7	42.3
47	8.4	5.6	10.4

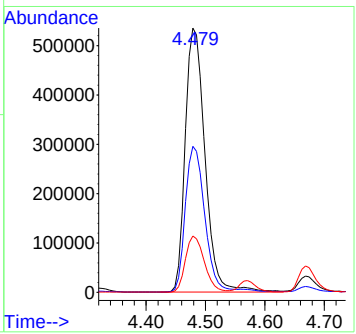


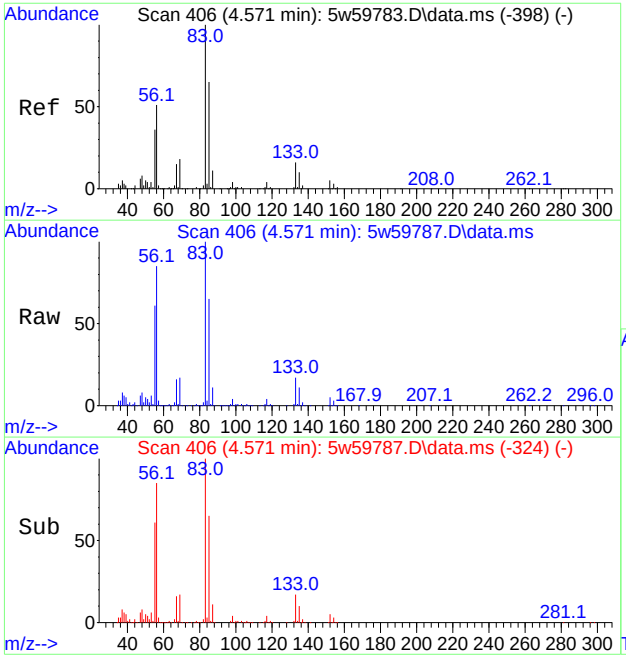


#17
ACETONITRILE
Concen: 52.74 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1245621

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.3	13.4	24.8

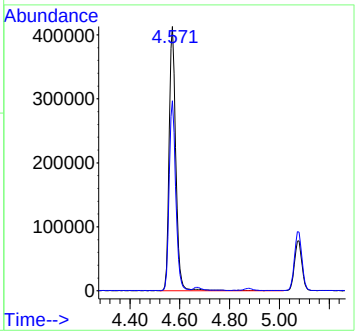


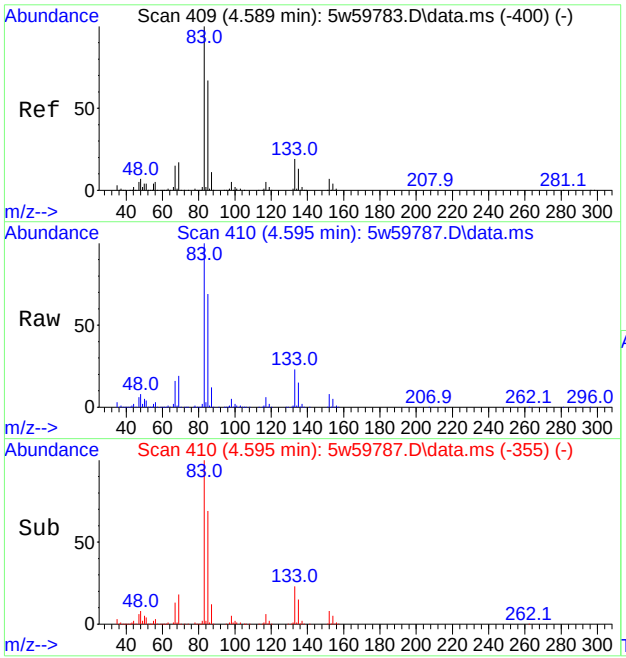


#18
ACROLEIN
Concen: 54.68 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 56 Resp: 762905

Ion	Ratio	Lower	Upper
56	100		
55	70.9	46.6	86.6

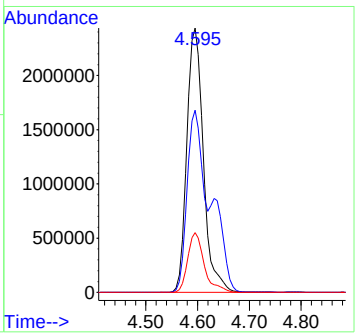


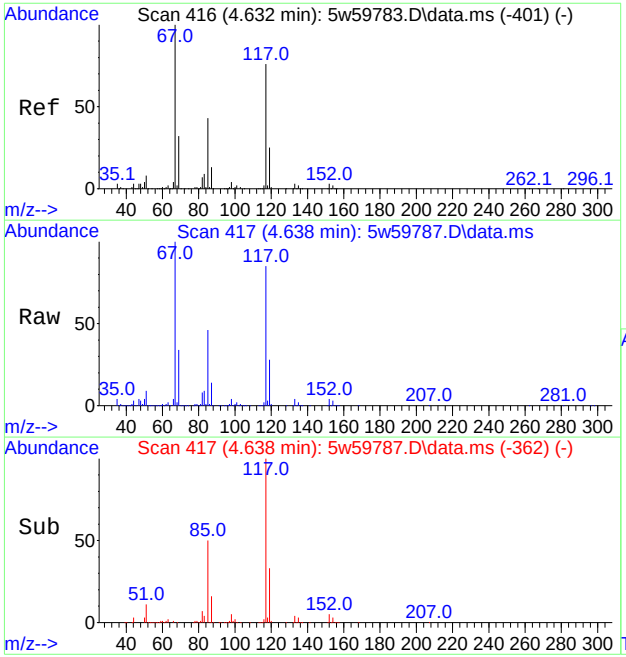


#19
FREON 123
Concen: 53.17 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 5407858

Ion	Ratio	Lower	Upper
83	100		
85	67.6	34.0	94.0
133	22.7	0.0	50.7

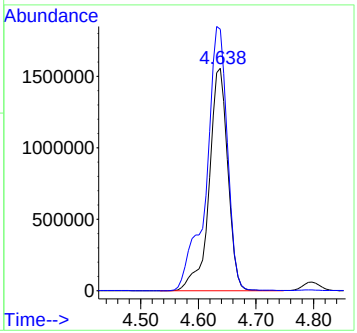


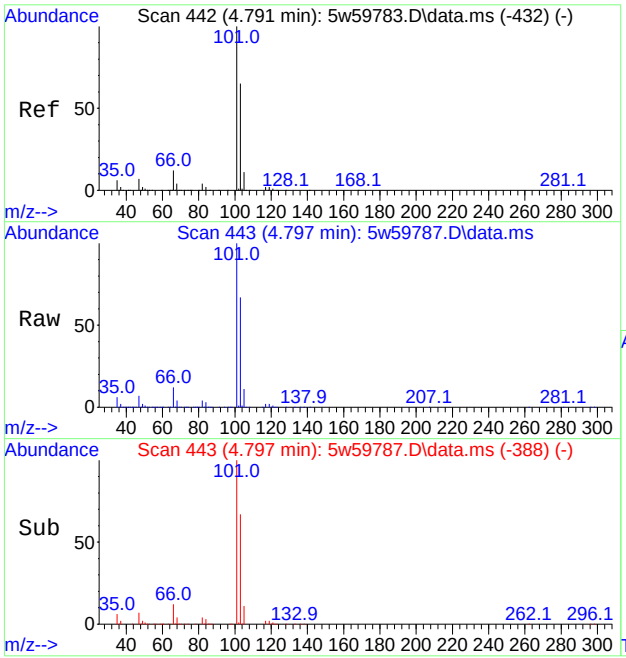


#20
FREON 123A
Concen: 57.82 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 3495792

Ion	Ratio	Lower	Upper
117	100		
67	134.2	114.6	174.6

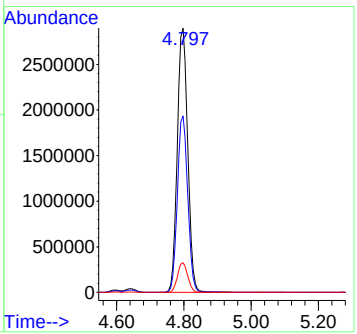


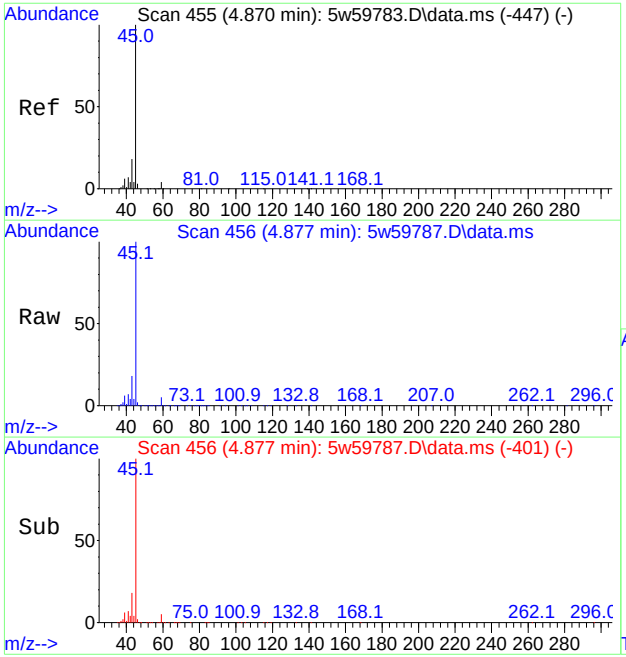


#21
TRICHLOROFLUOROMETHANE
Concen: 56.50 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:101 Resp: 6263951

Ion	Ratio	Lower	Upper
101	100		
103	66.2	35.0	95.0
105	11.1	0.0	40.7

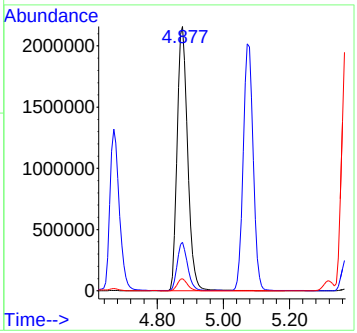


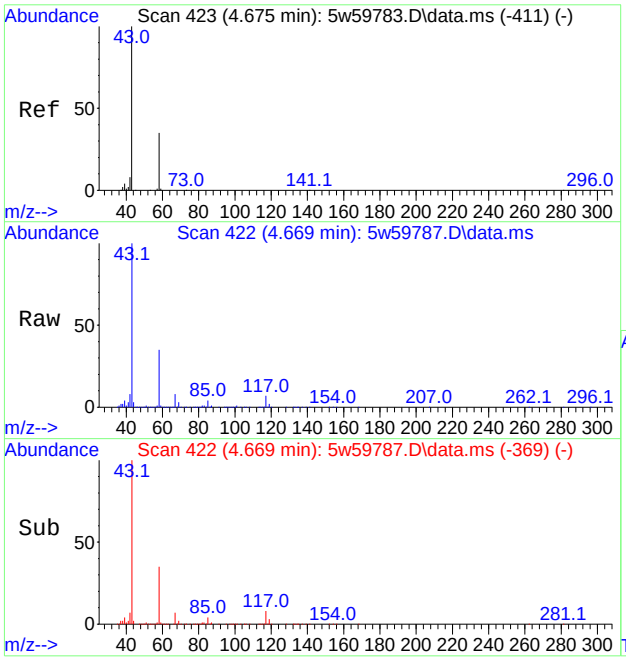


#22
ISOPROPYL ALCOHOL
Concen: 59.23 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 4774264

Ion	Ratio	Lower	Upper
45	100		
43	18.3	0.0	47.8
59	4.5	0.0	34.1

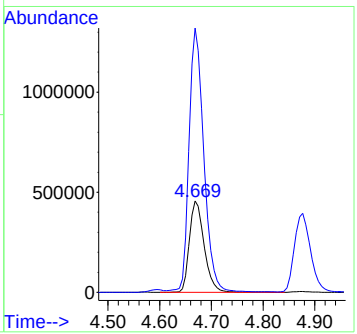


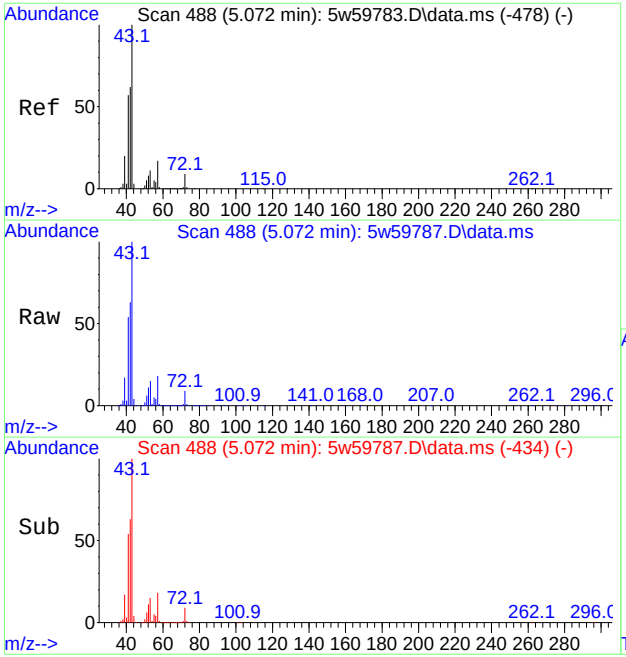


#23
ACETONE
Concen: 55.35 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 909361

Ion	Ratio	Lower	Upper
58	100		
43	286.4	252.3	312.3

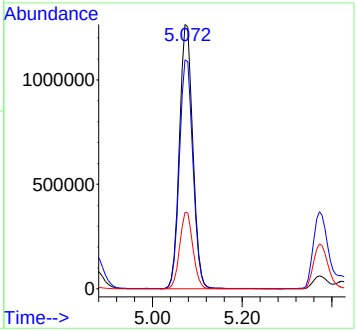


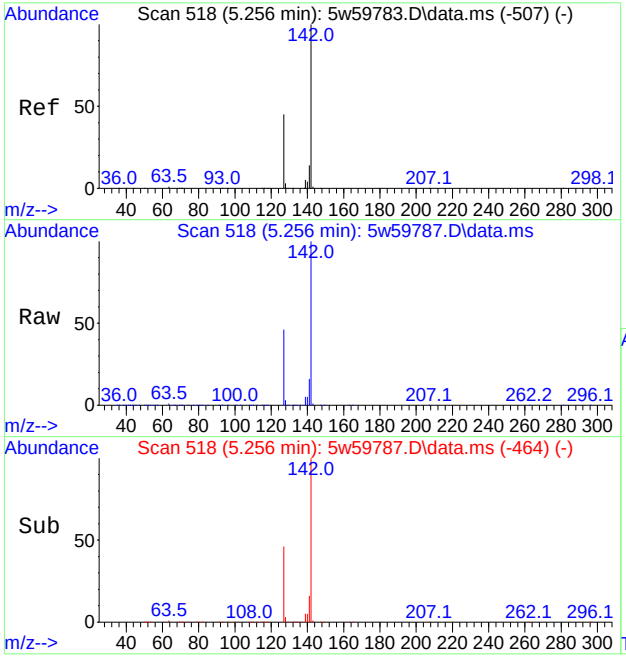


#24
PENTANE
Concen: 64.00 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 42 Resp: 2631624

Ion	Ratio	Lower	Upper
42	100		
41	88.0	62.3	122.3
57	28.7	0.0	57.7

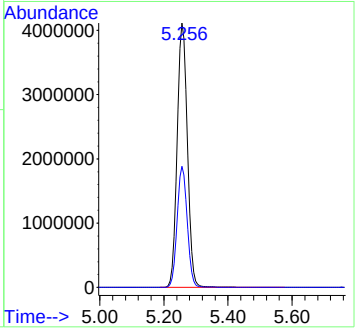


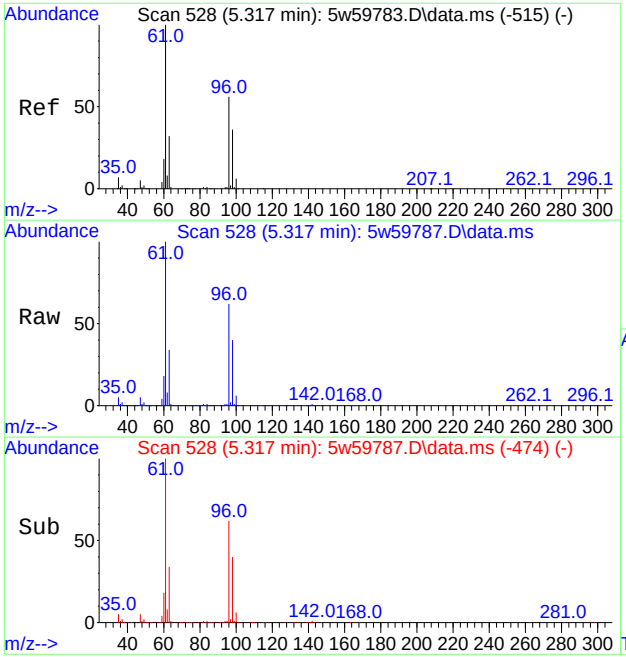


#25
IODOMETHANE
Concen: 64.39 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:142 Resp: 9114140

Ion	Ratio	Lower	Upper
142	100		
127	45.3	16.0	76.0

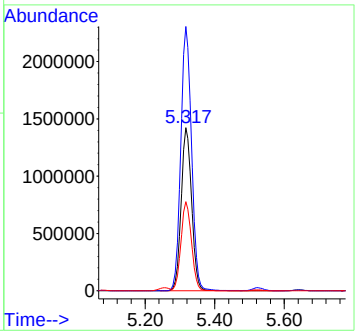


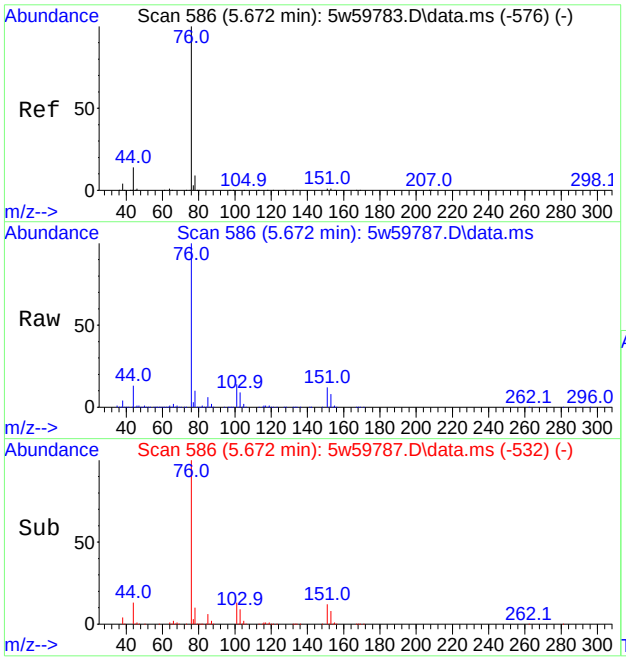


#26
1,1-DICHLOROETHYLENE
Concen: 64.07 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 2972573

Ion	Ratio	Lower	Upper
96	100		
61	166.3	148.5	208.5
63	55.0	27.4	87.4

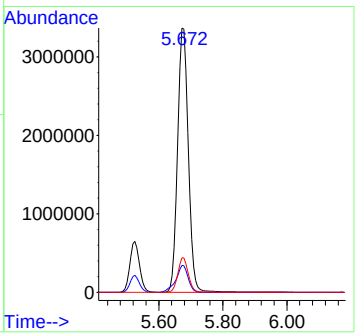


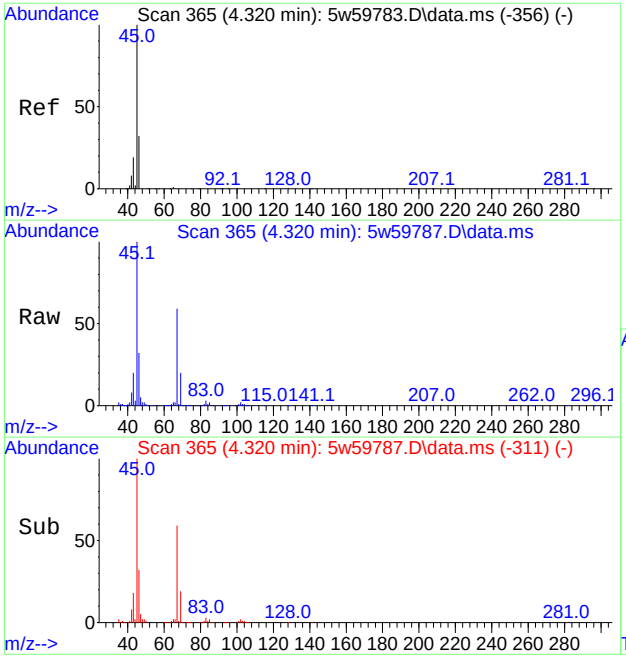


#27
CARBON DISULFIDE
Concen: 61.73 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 7844304

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	12.8	0.0	44.6

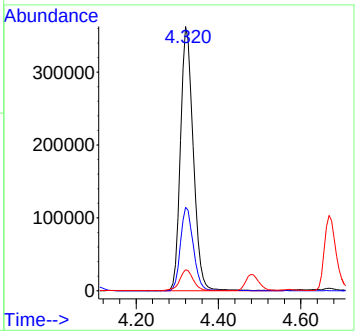


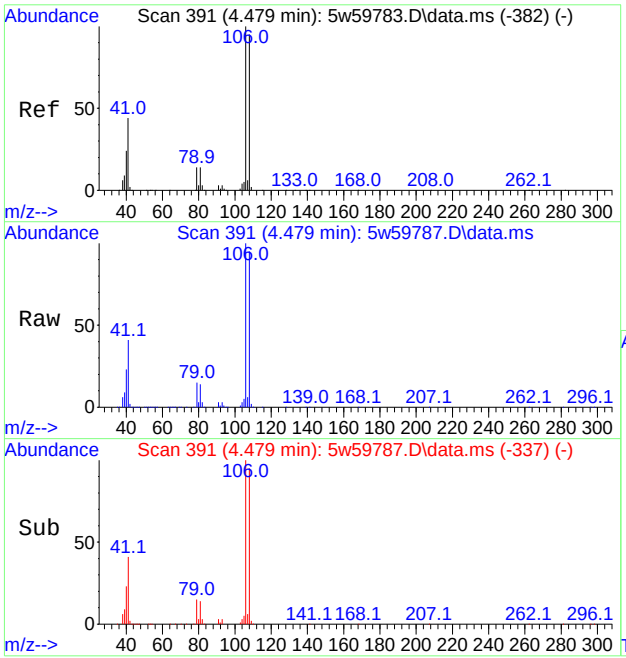


#28
ETHANOL
Concen: 51.79 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 782956

Ion	Ratio	Lower	Upper
45	100		
46	31.9	2.0	62.0
42	8.5	0.0	38.5

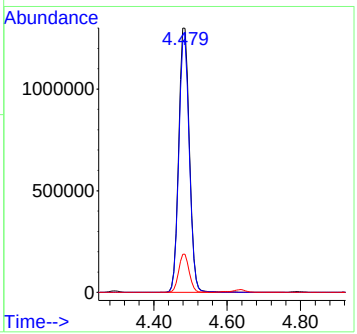


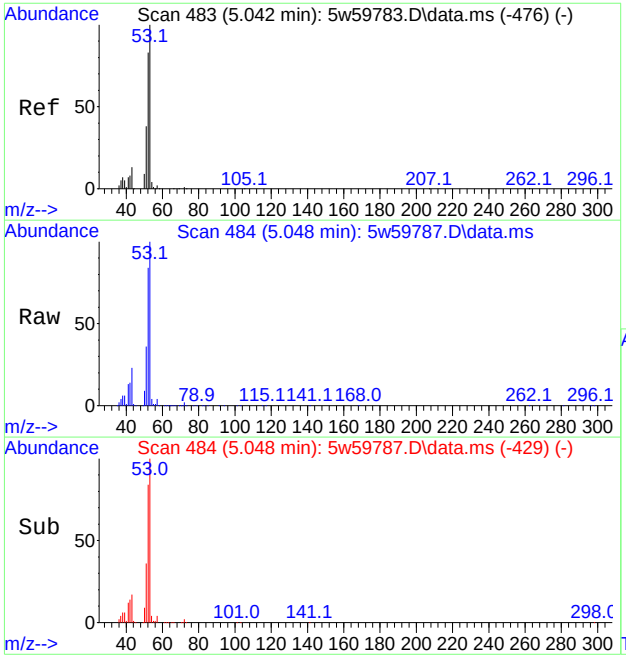


#29
BROMOETHENE
Concen: 57.30 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 2638149

Ion	Ratio	Lower	Upper
106	100		
108	95.2	65.6	125.6
81	14.3	0.0	43.9

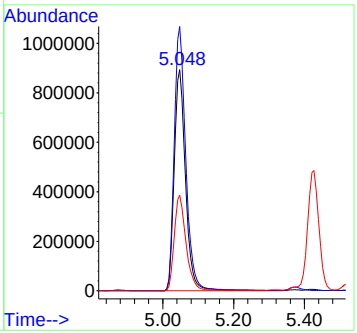


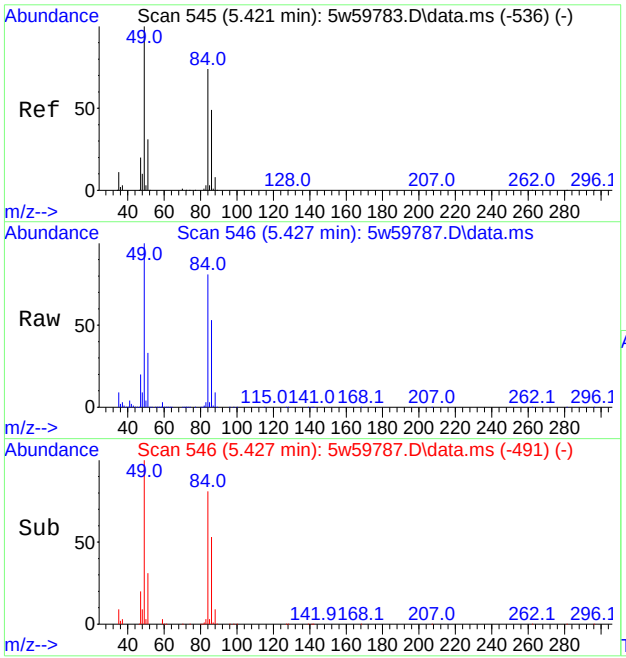


#30
ACRYLONITRILE
Concen: 68.16 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 1983513

Ion	Ratio	Lower	Upper
52	100		
53	121.8	85.8	159.4
51	45.1	32.3	60.1

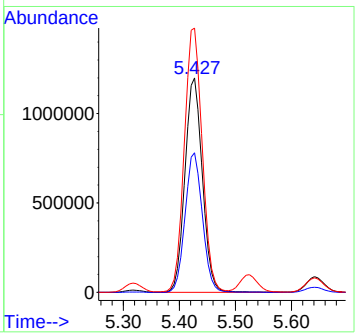


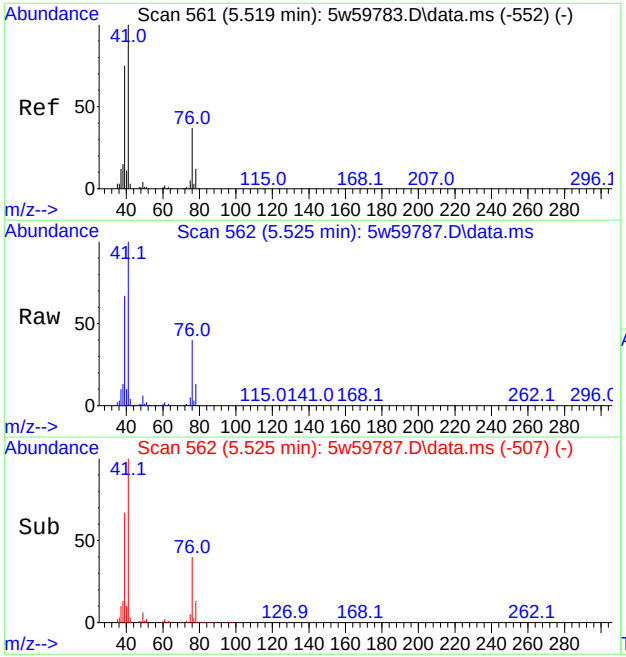


#31
METHYLENE CHLORIDE
Concen: 62.87 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 2586702

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	126.9	105.3	165.3

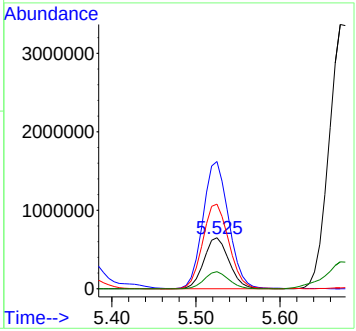


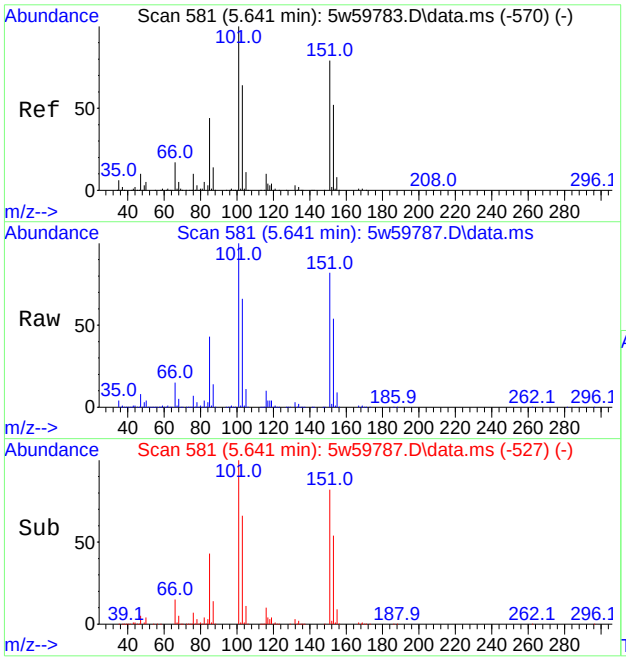


#32
3-CHLOROPROPENE
Concen: 64.21 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 1356999

Ion	Ratio	Lower	Upper
76	100		
41	255.7	240.8	300.8
39	172.9	173.6	233.6#
78	32.9	2.8	62.8

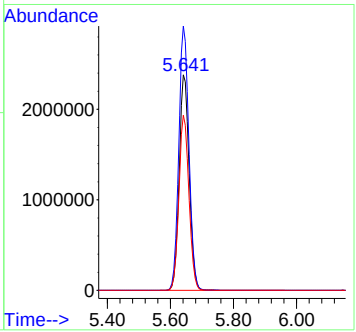


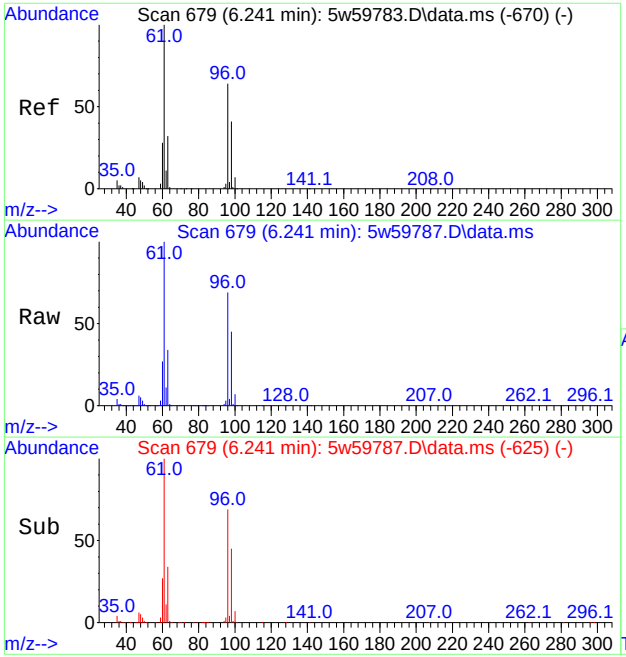


#33
FREON 113
Concen: 62.99 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:151 Resp: 5255099

Ion	Ratio	Lower	Upper
151	100		
101	124.0	97.5	157.5
103	81.5	52.5	112.5

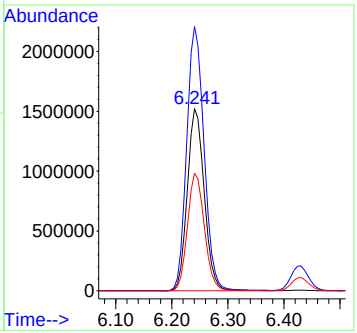


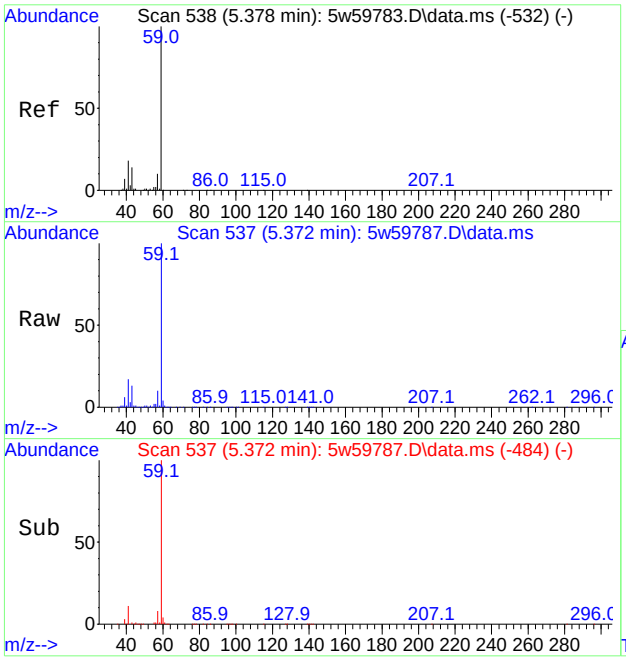


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 65.25 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3195584

Ion	Ratio	Lower	Upper
96	100		
61	148.6	126.4	186.4
98	64.5	34.1	94.1

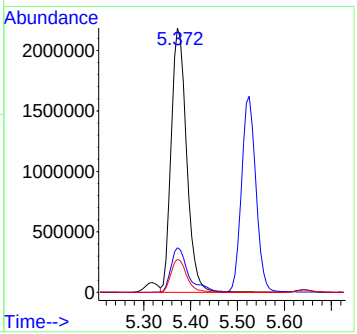


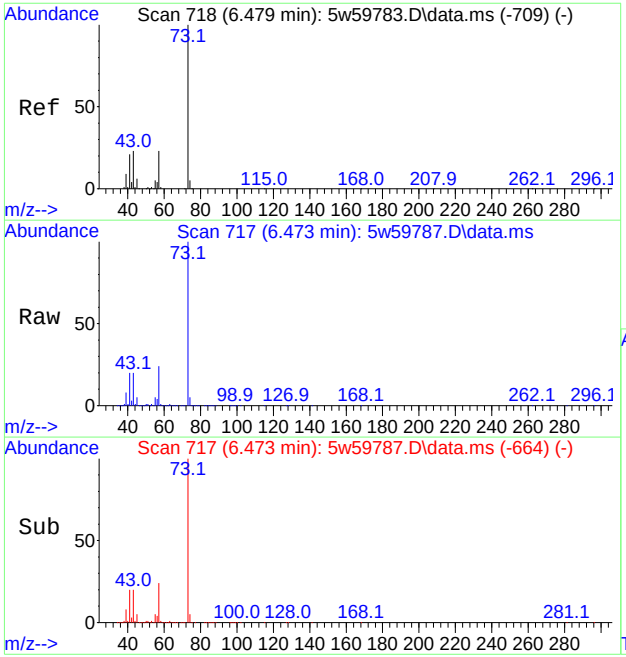


#35
TERTIARY BUTYL ALCOHOL
Concen: 52.68 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 4989539

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	12.7	0.0	44.1

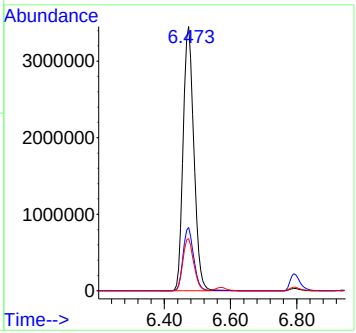


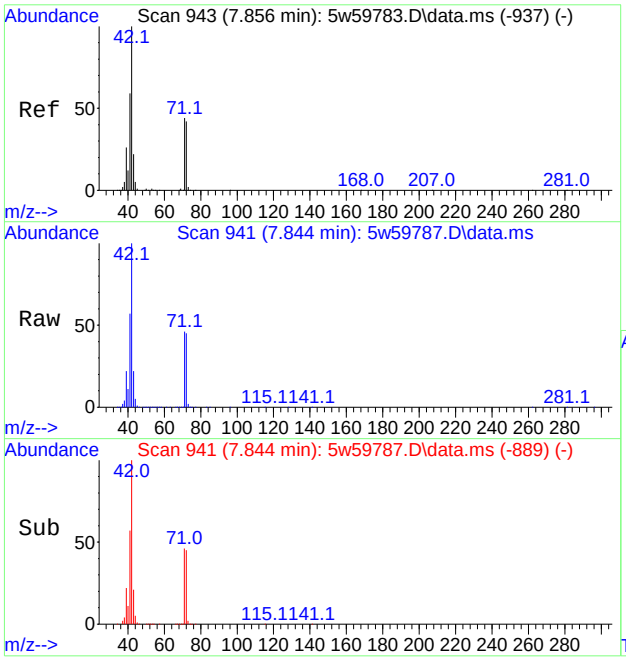


#36
METHYL TERTIARY BUTYL ETHER
Concen: 63.24 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 73 Resp: 7764187

Ion	Ratio	Lower	Upper
73	100		
57	23.5	0.0	53.1
41	19.8	0.0	50.6

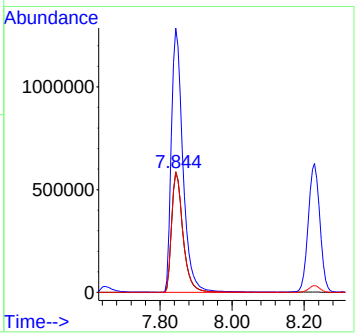


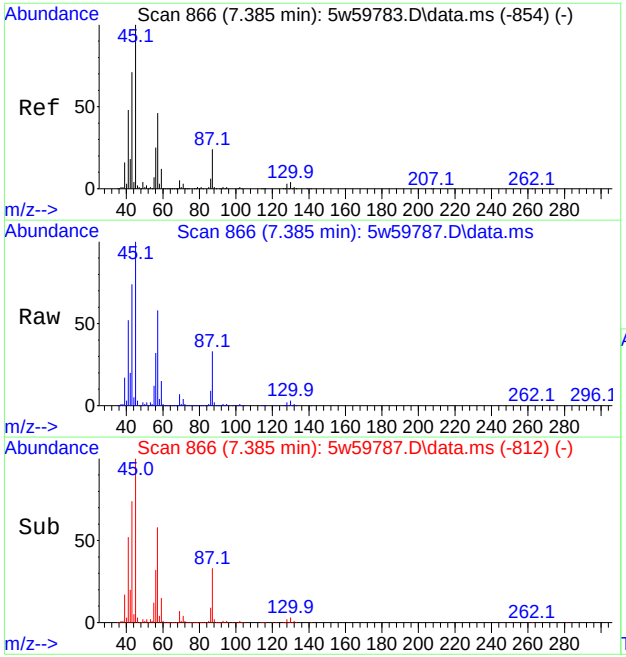


#37
TETRAHYDROFURAN
Concen: 65.77 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1279396

Ion	Ratio	Lower	Upper
72	100		
42	223.5	202.4	262.4
71	100.6	71.1	131.1

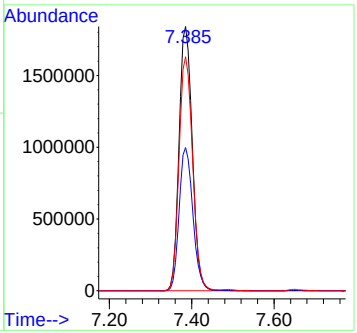


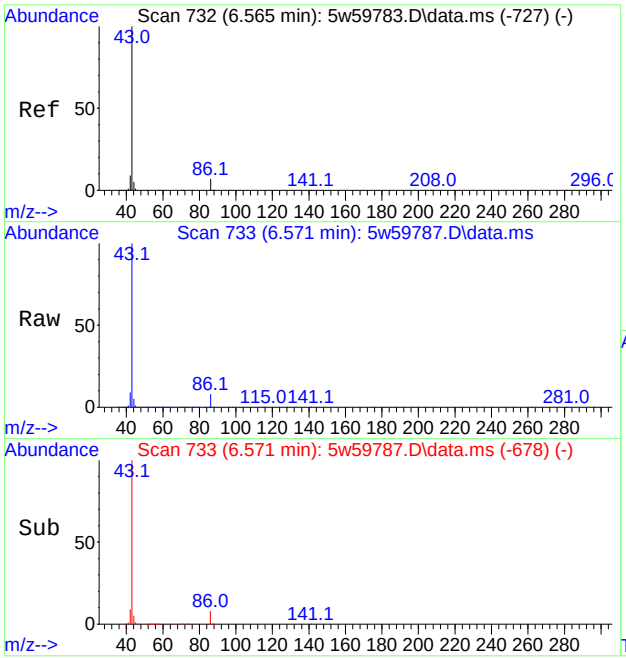


#38
HEXANE
Concen: 58.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 4098725

Ion	Ratio	Lower	Upper
57	100		
56	56.6	25.9	85.9
41	91.2	74.7	134.7

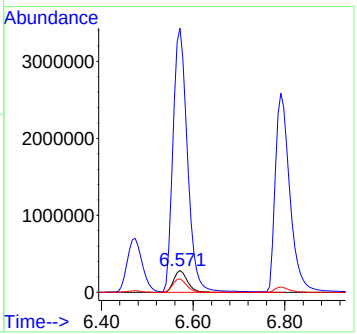


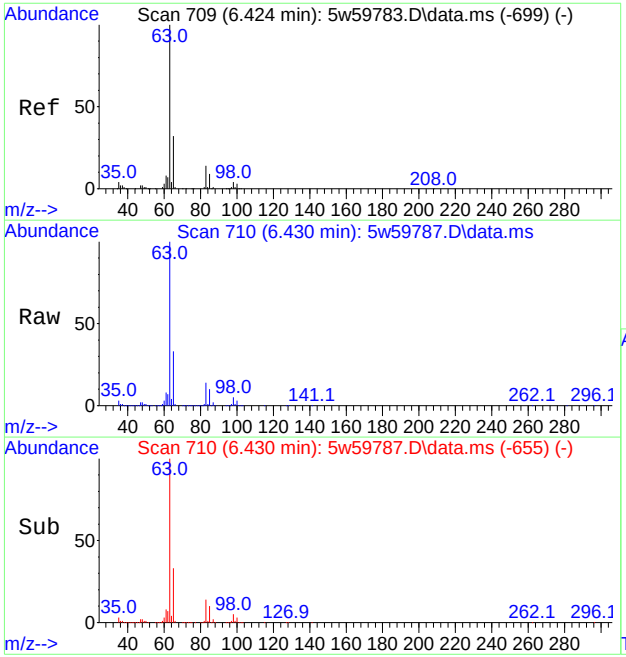


#39
VINYL ACETATE
Concen: 69.16 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 86 Resp: 595335

Ion	Ratio	Lower	Upper
86	100		
43	1251.0	1379.7	1439.7#
44	62.3	36.9	96.9

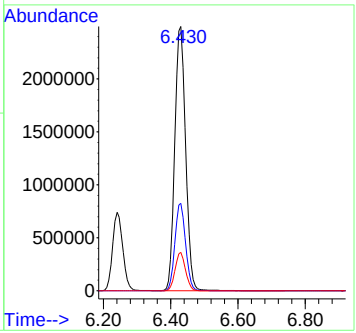


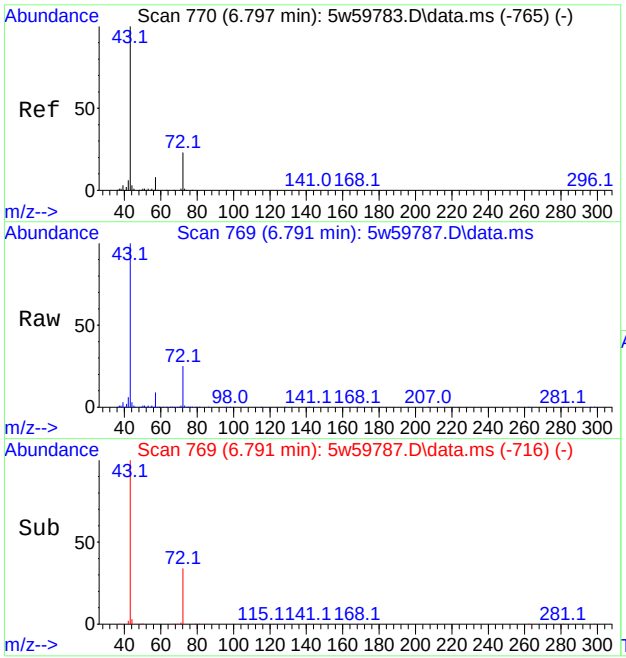


#40
1,1-DICHLOROETHANE
Concen: 63.37 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 5580661

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.7	61.7
83	14.0	0.0	43.5

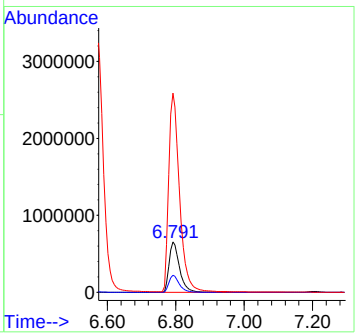


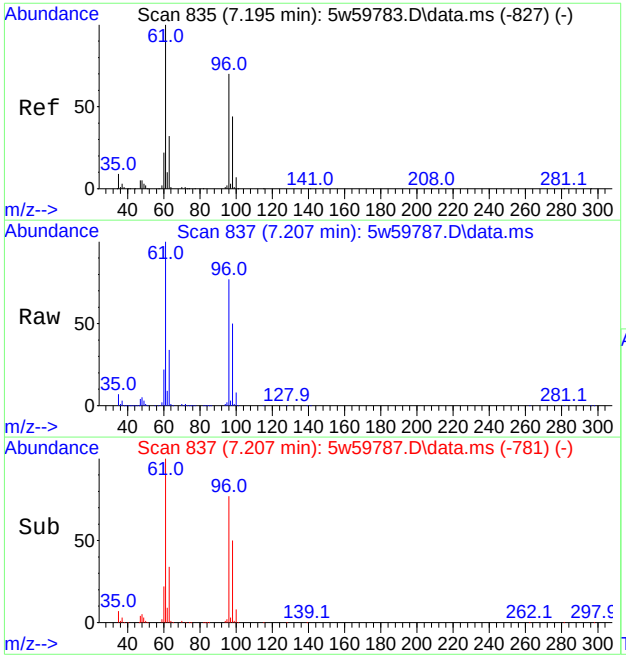


#41
METHYL ETHYL KETONE
Concen: 68.19 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1403846

Ion	Ratio	Lower	Upper
72	100		
57	34.0	4.8	64.8
43	394.5	415.9	475.9#

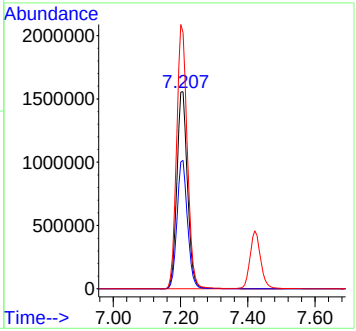


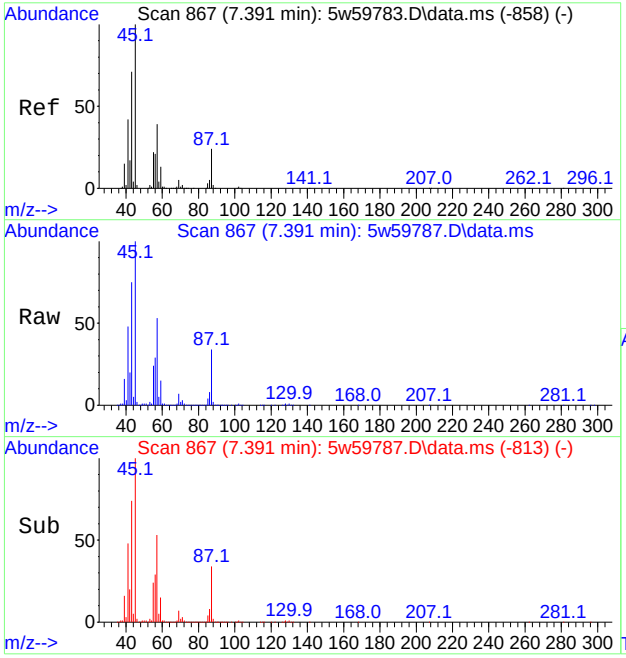


#42
cis-1,2-DICHLOROETHYLENE
Concen: 66.53 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3406006

Ion	Ratio	Lower	Upper
96	100		
98	64.6	34.0	94.0
61	134.9	111.5	171.5

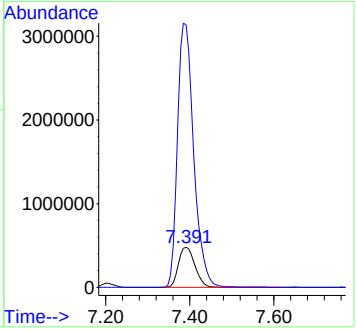


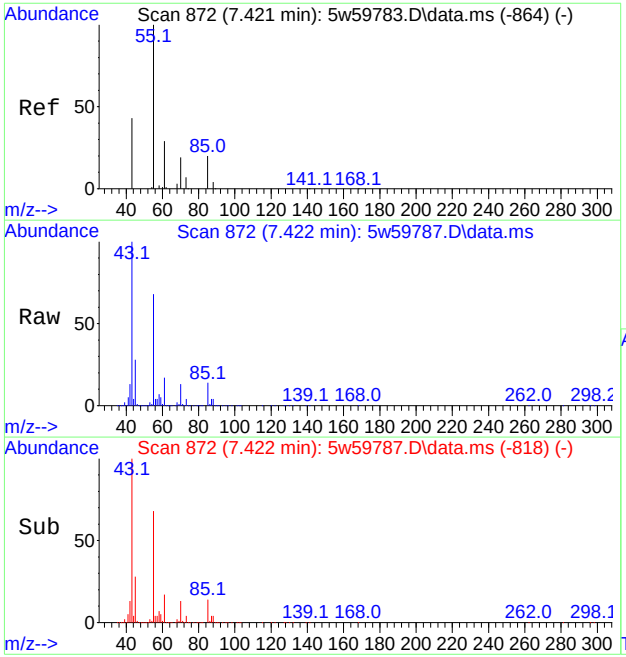


#43
DIISOPROPYL ETHER
Concen: 59.80 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 1304563

Ion	Ratio	Lower	Upper
59	100		
45	649.0	720.9	780.9#

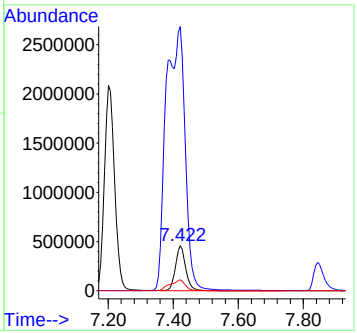


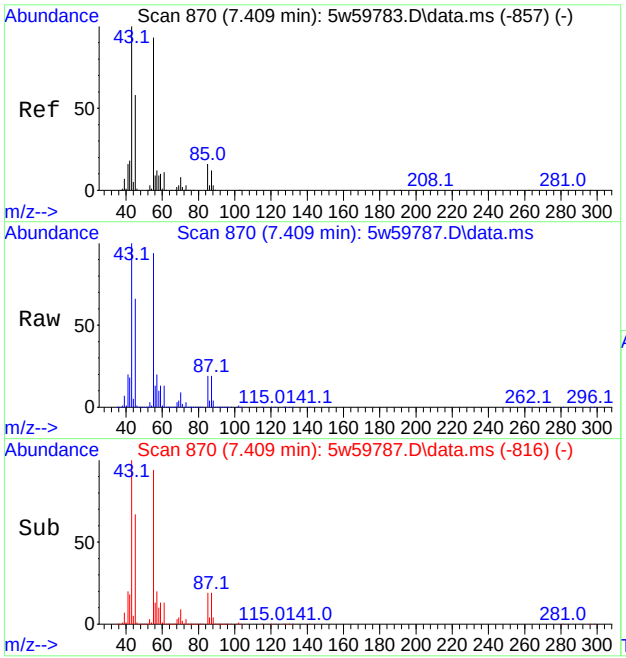


#44
ETHYL ACETATE
Concen: 62.87 PPBV m
RT: 7.422 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 61 Resp: 1009100

Ion	Ratio	Lower	Upper
61	100		
43	545.0	560.5	620.5#
88	36.8	4.5	64.5

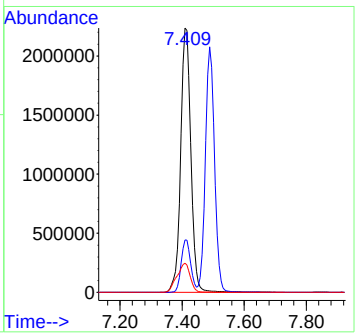


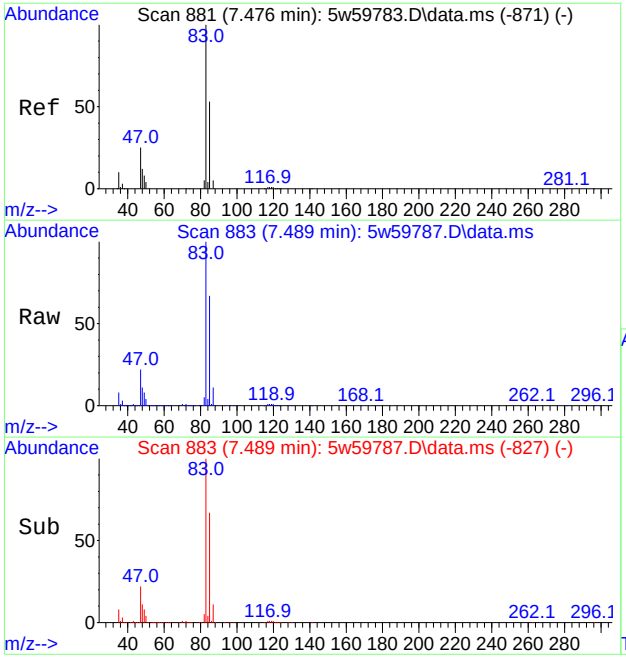


#45
METHYL ACRYLATE
Concen: 59.04 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 5147084

Ion	Ratio	Lower	Upper
55	100		
85	18.4	10.9	20.3
58	14.2	9.4	17.6

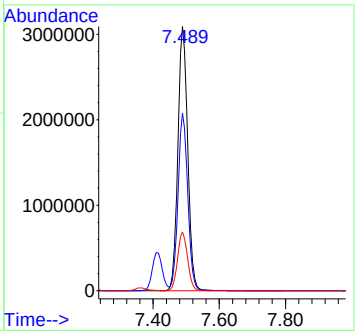


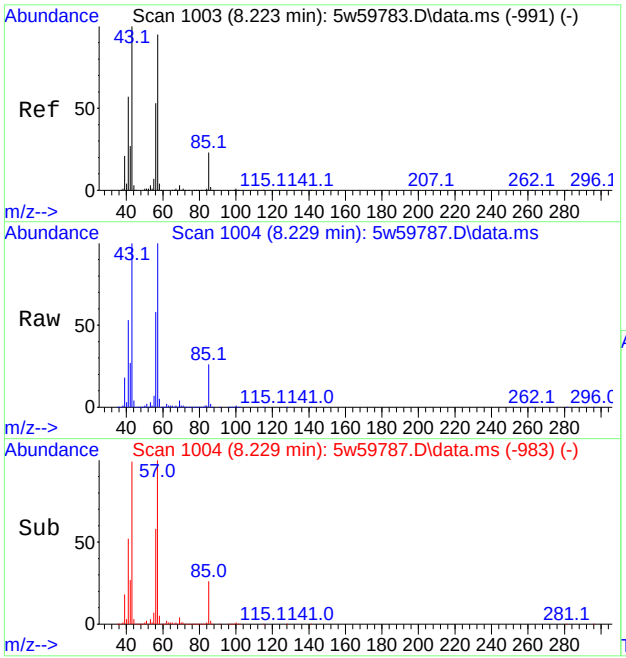


#46
CHLOROFORM
Concen: 62.45 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 6393103

Ion	Ratio	Lower	Upper
83	100		
85	66.7	35.6	95.6
47	22.7	0.0	55.2

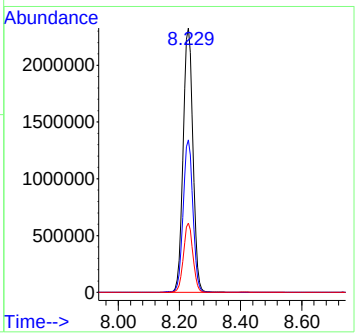


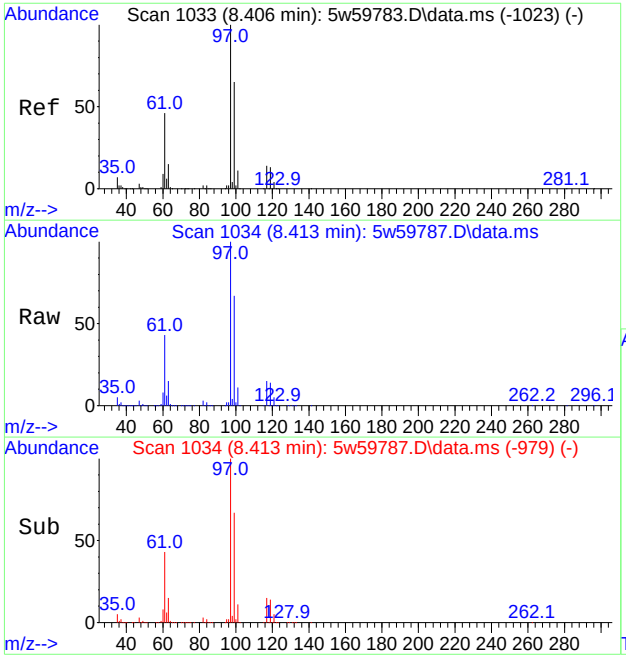


#47
2,4-DIMETHYLPENTANE
Concen: 62.87 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 5181431

Ion	Ratio	Lower	Upper
57	100		
56	57.5	26.5	86.5
85	25.4	0.0	53.8

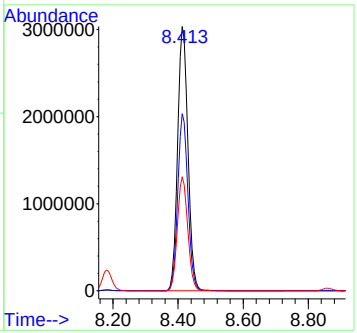


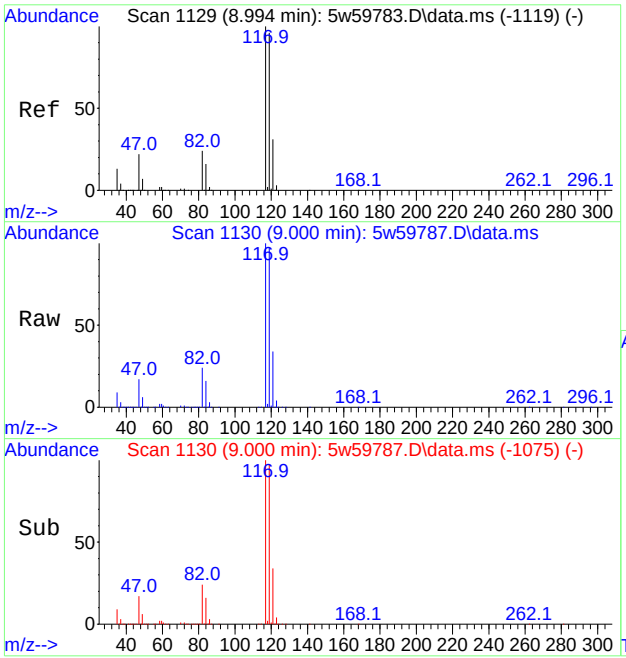


#48
1,1,1-TRICHLOROETHANE
Concen: 62.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 97 Resp: 6744194

Ion	Ratio	Lower	Upper
97	100		
99	66.0	34.8	94.8
61	43.4	15.8	75.8

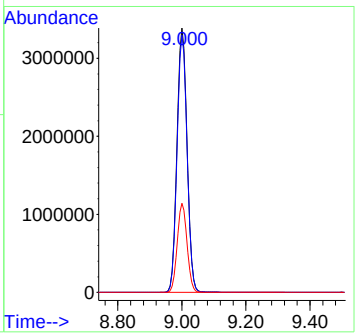


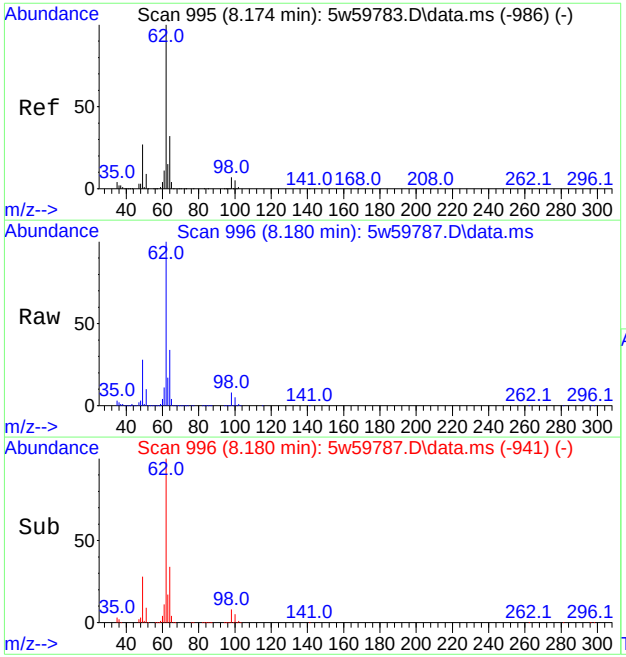


#49
CARBON TETRACHLORIDE
Concen: 61.67 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 7391895

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	32.8	1.3	61.3

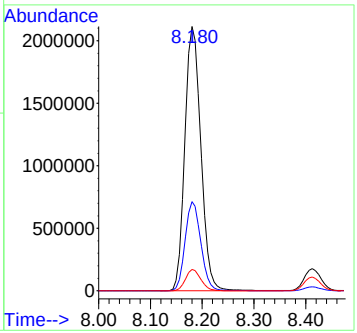


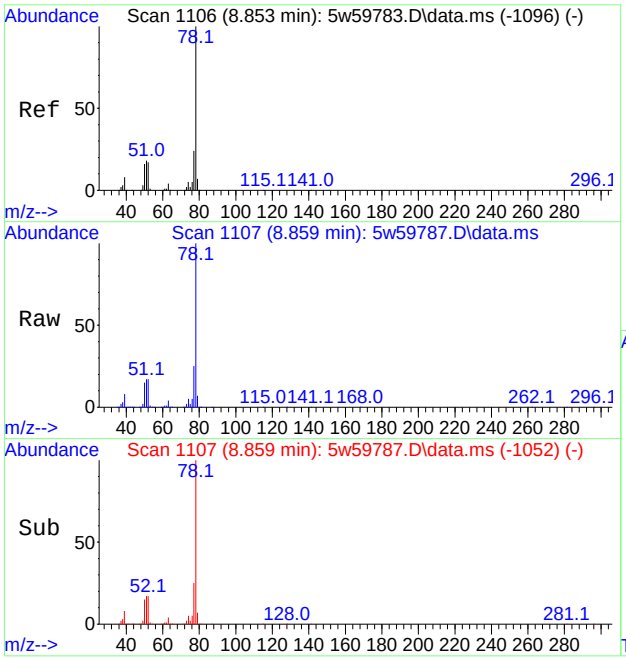


#50
1,2-DICHLOROETHANE
Concen: 62.85 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 4560398

Ion	Ratio	Lower	Upper
62	100		
64	33.2	2.3	62.3
98	7.7	0.0	36.9

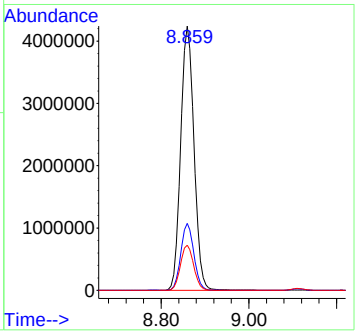


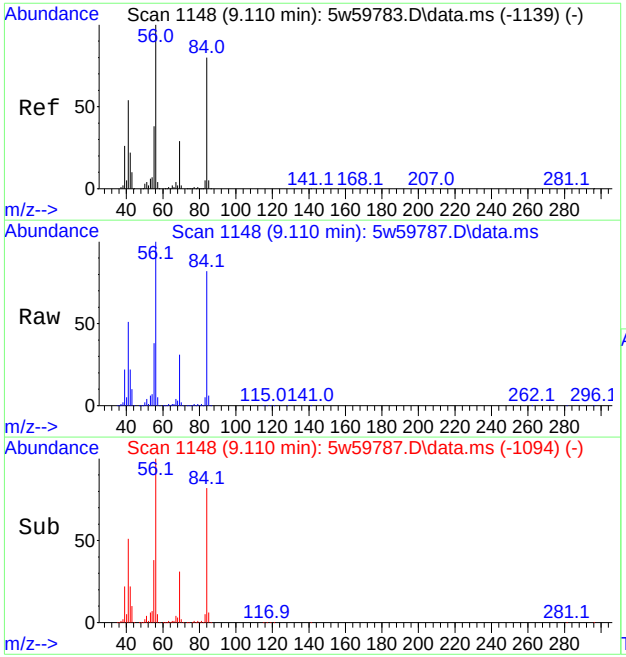


#52
BENZENE
Concen: 67.41 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 78 Resp: 8949189

Ion	Ratio	Lower	Upper
78	100		
77	24.7	0.0	53.8
52	17.1	0.0	46.9

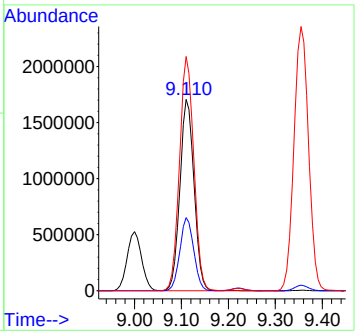


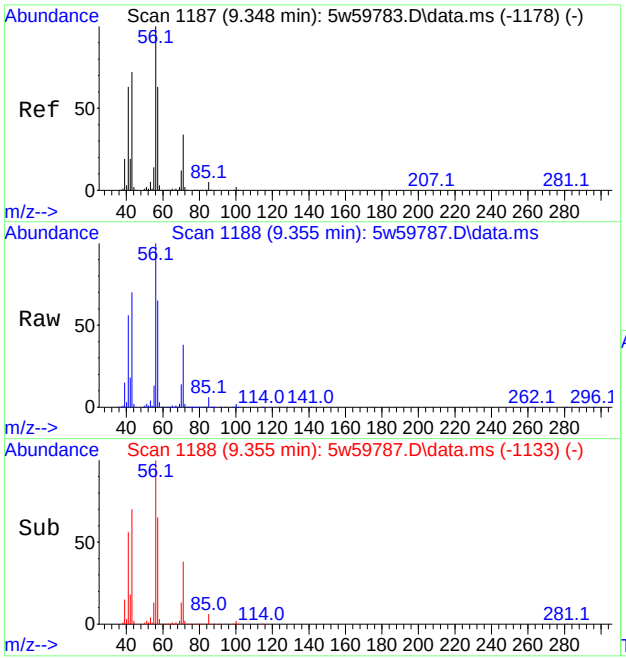


#53
CYCLOHEXANE
Concen: 67.59 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 3590293

Ion	Ratio	Lower	Upper
84	100		
69	37.6	6.9	66.9
56	123.7	98.2	158.2

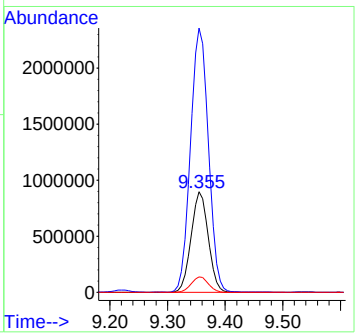


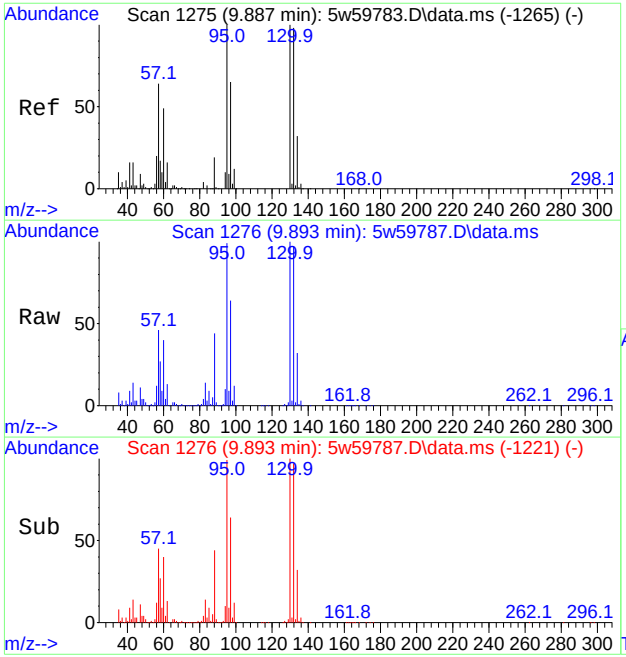


#54
2,3-DIMETHYLPENTANE
Concen: 67.86 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 71 Resp: 1853301

Ion	Ratio	Lower	Upper
71	100		
56	275.2	264.6	324.6
85	15.5	0.0	45.3

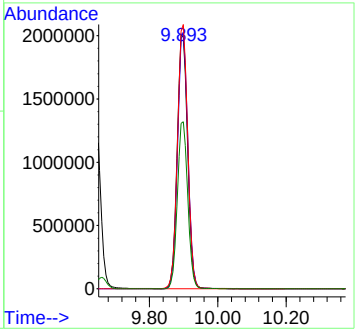


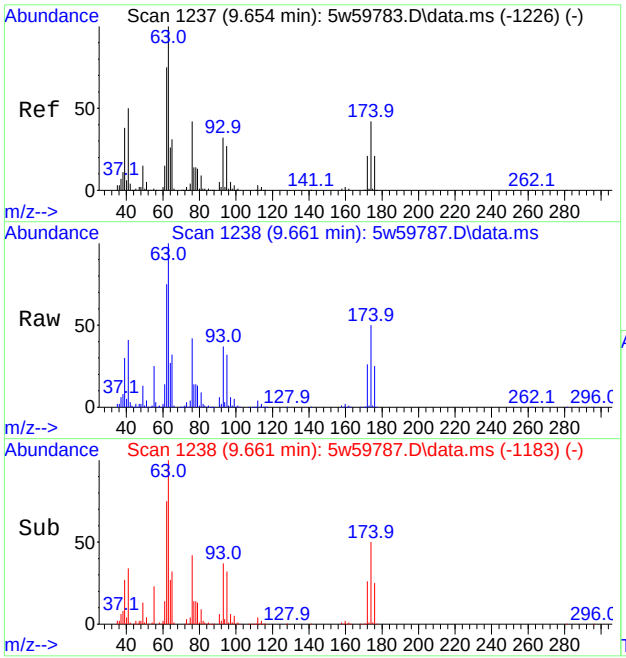


#55
TRICHLOROETHYLENE
Concen: 61.05 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 95 Resp: 4247994

Ion	Ratio	Lower	Upper
95	100		
132	100.4	69.0	129.0
130	103.4	70.6	130.6
97	65.6	34.6	94.6

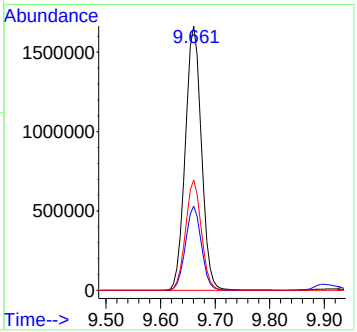


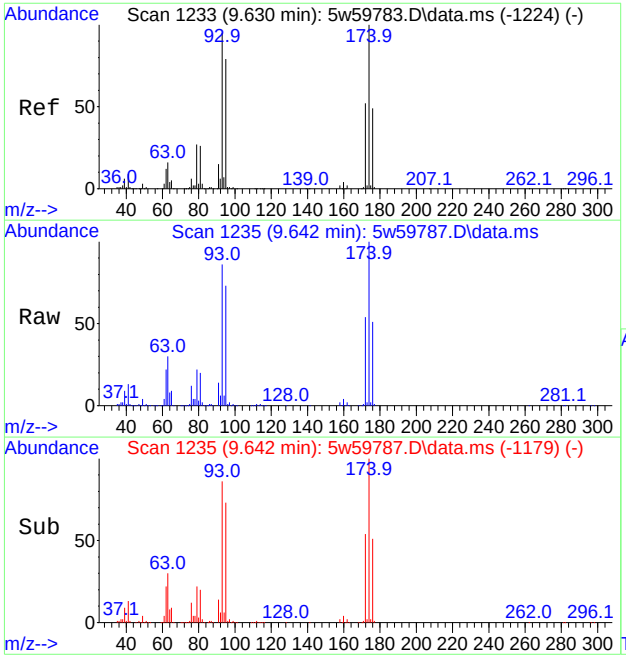


#56
1,2-DICHLOROPROPANE
Concen: 61.24 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 3414269

Ion	Ratio	Lower	Upper
63	100		
65	31.5	0.5	60.5
76	41.1	11.5	71.5

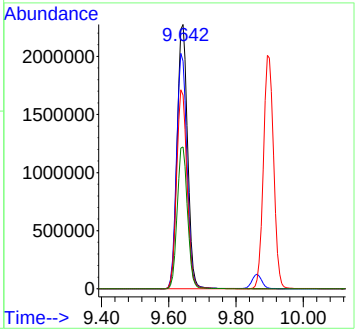


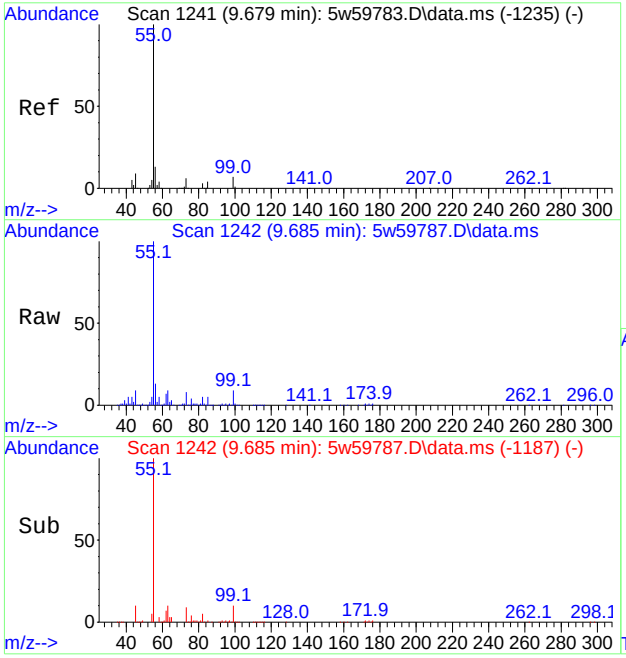


#57
DIBROMOMETHANE
Concen: 64.66 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:174 Resp: 4863346

Ion	Ratio	Lower	Upper
174	100		
93	89.4	65.0	120.6
95	75.5	54.5	101.1
172	53.4	36.3	67.5

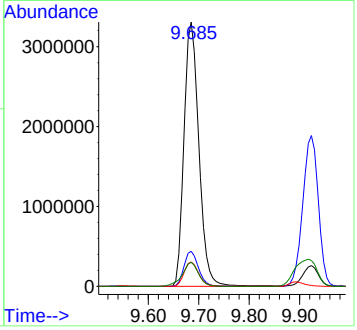


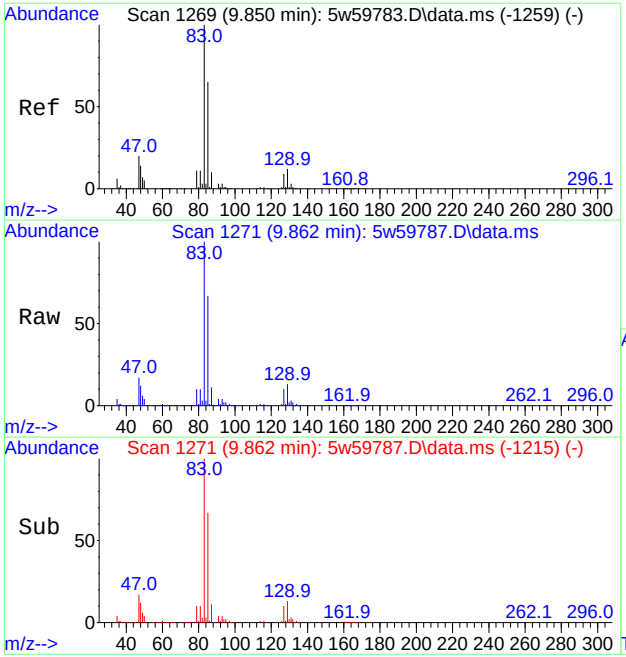


#58
ETHYL ACRYLATE
Concen: 63.67 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 6797917

Ion	Ratio	Lower	Upper
55	100		
56	12.9	8.6	16.0
45	9.0	6.6	12.2
99	10.0	6.4	12.0

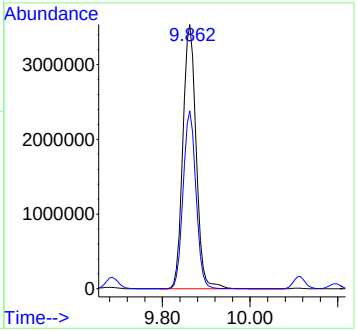


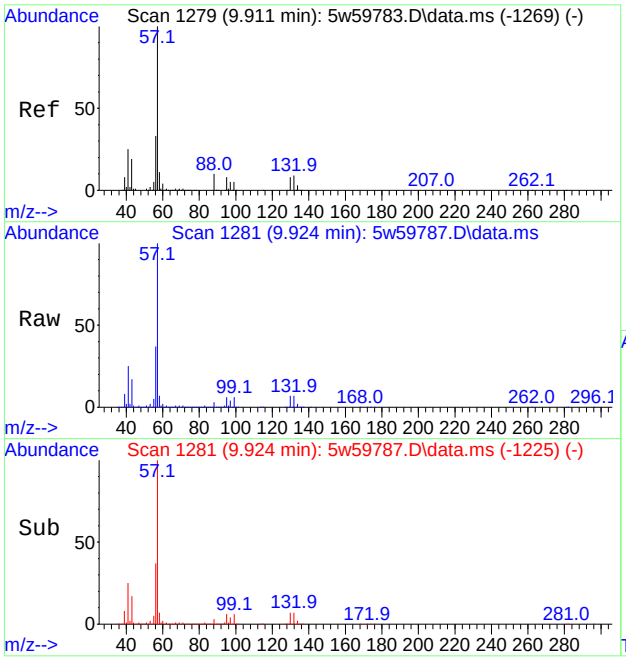


#59
BROMODICHLOROMETHANE
Concen: 61.30 PPBV
RT: 9.862 min Scan# 1271
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7417663

Ion	Ratio	Lower	Upper
83	100		
85	65.4	33.4	93.4

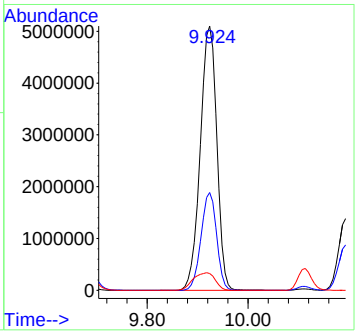


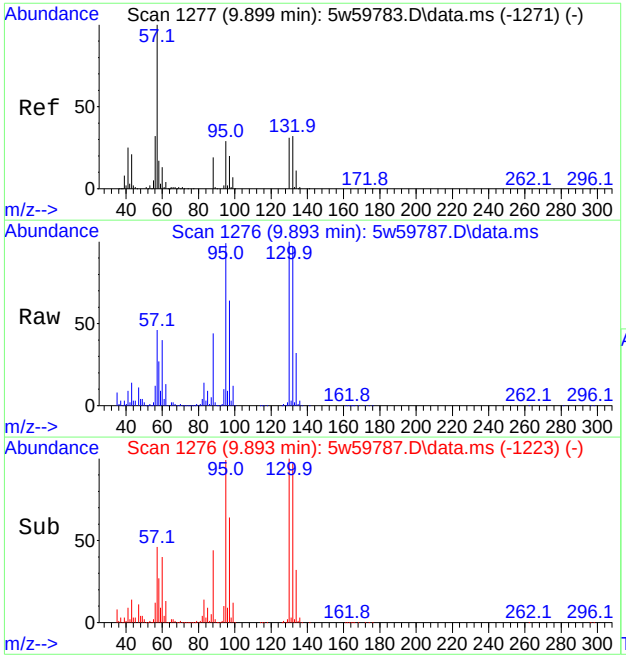


#60
2,2,4-TRIMETHYLPENTANE
Concen: 56.13 PPBV
RT: 9.924 min Scan# 1281
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp:11658719

Ion	Ratio	Lower	Upper
57	100		
56	34.7	2.5	62.5
99	8.9	0.0	37.3

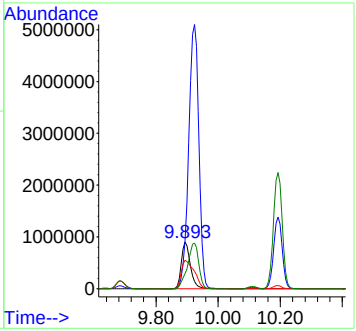


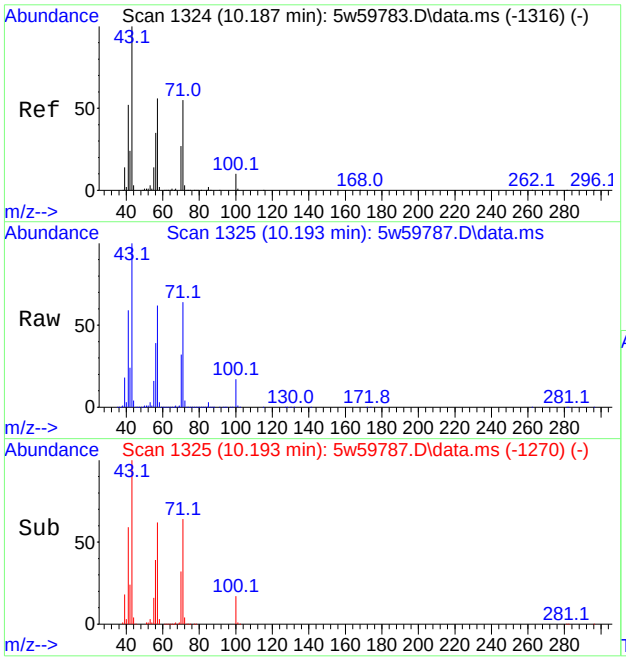


#61
1,4-DIOXANE
Concen: 60.00 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 88 Resp: 1844331

Ion	Ratio	Lower	Upper
88	100		
57	102.5	494.2	554.2#
58	61.2	58.9	118.9
43	32.1	78.3	138.3#

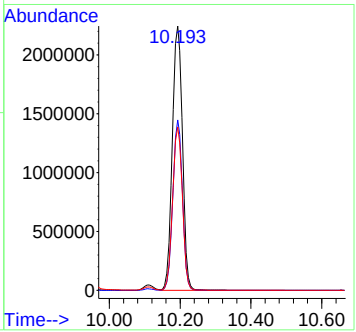


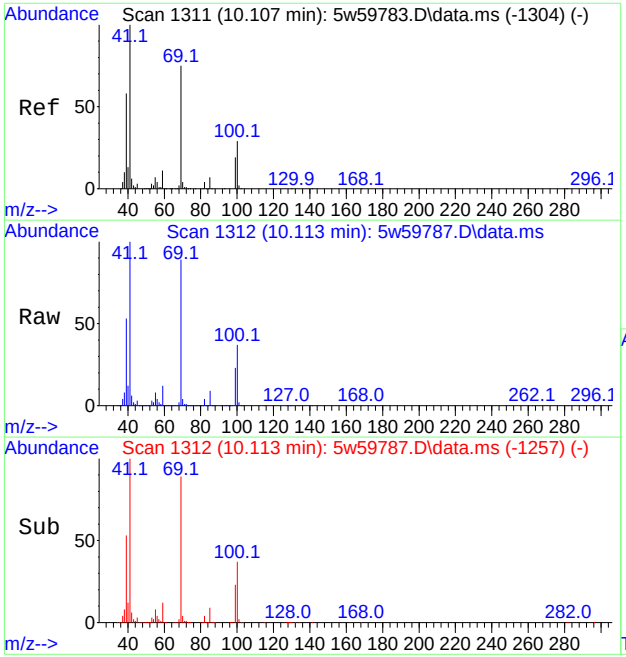


#62
HEPTANE
Concen: 63.31 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 4474034

Ion	Ratio	Lower	Upper
43	100		
71	61.1	24.5	84.5
57	59.9	26.2	86.2

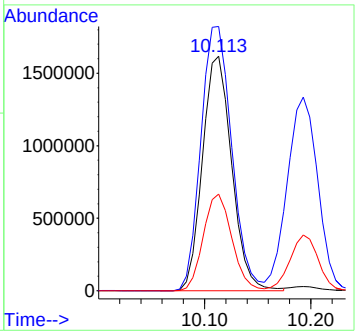


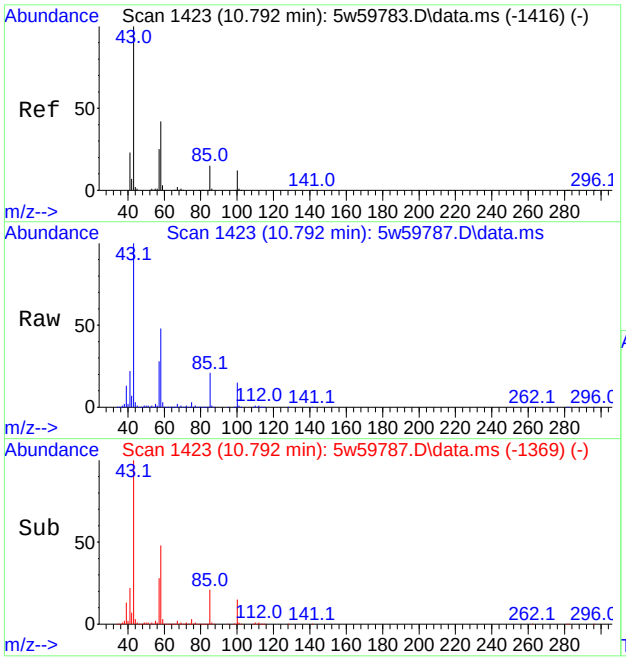


#63
METHYL METHACRYLATE
Concen: 67.79 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 3101307

Ion	Ratio	Lower	Upper
69	100		
41	118.8	95.3	155.3
100	40.2	6.3	66.3

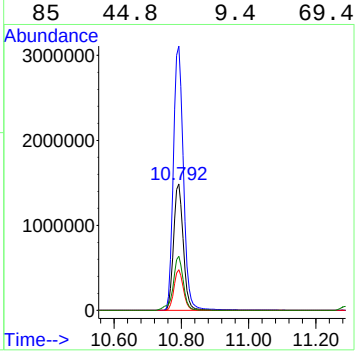


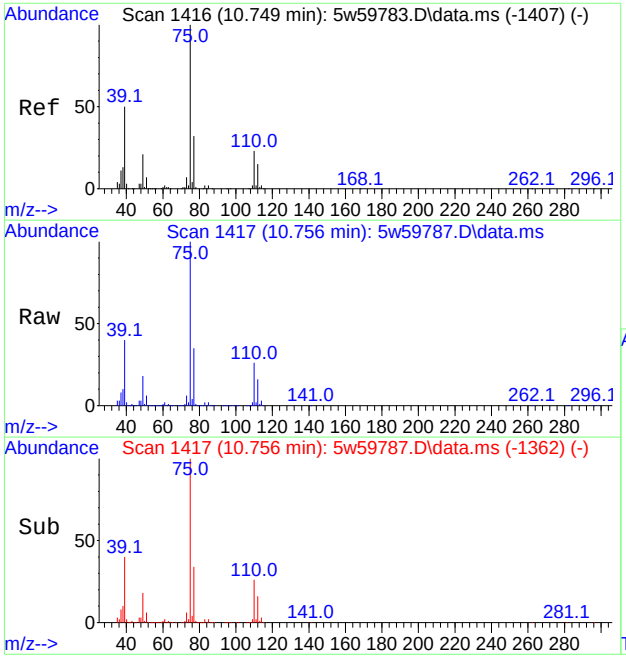


#64
METHYL ISOBUTYL KETONE
Concen: 66.58 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 2975343

Ion	Ratio	Lower	Upper
58	100		
43	216.5	209.2	269.2
100	31.2	0.0	58.8
85	44.8	9.4	69.4

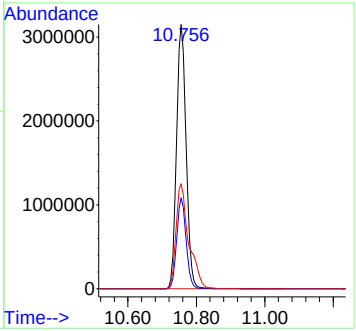


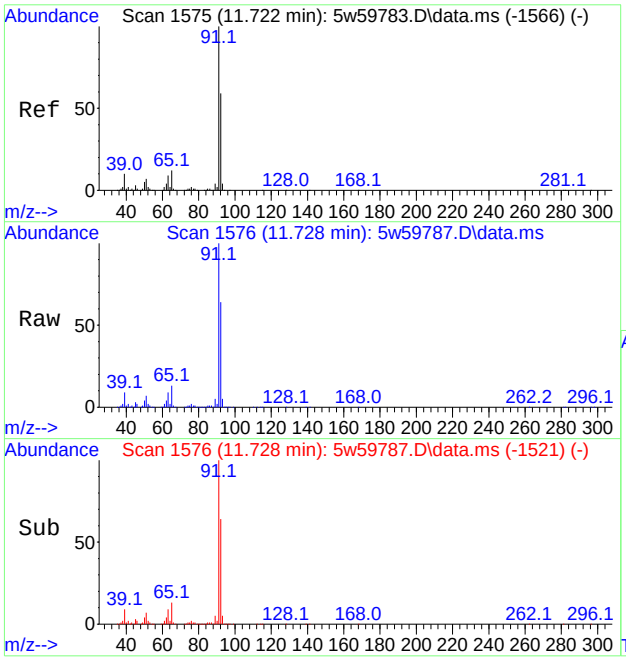


#65
cis-1,3-DICHLOROPROPENE
Concen: 66.43 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6183357

Ion	Ratio	Lower	Upper
75	100		
77	33.7	2.2	62.2
39	53.0	34.3	94.3

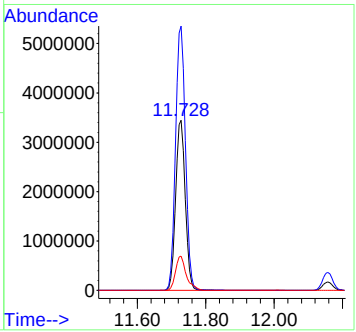


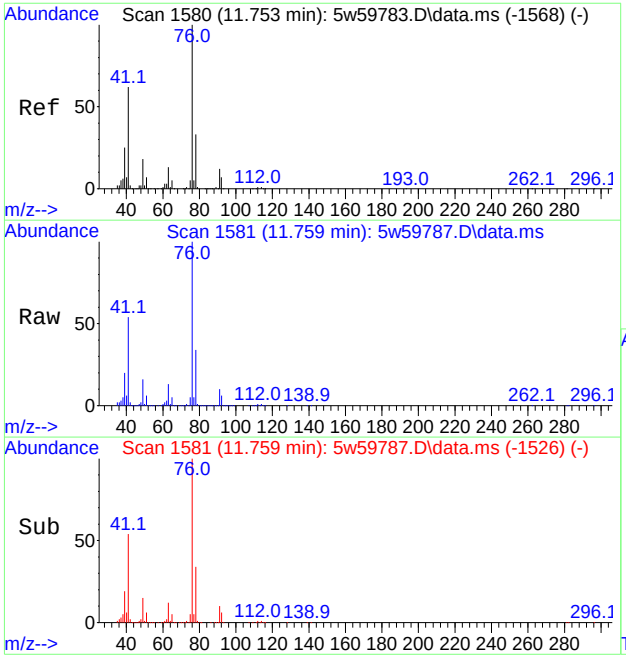


#66
TOLUENE
Concen: 65.67 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 92 Resp: 6766589

Ion	Ratio	Lower	Upper
92	100		
91	160.0	140.1	200.1
65	22.6	0.0	53.1

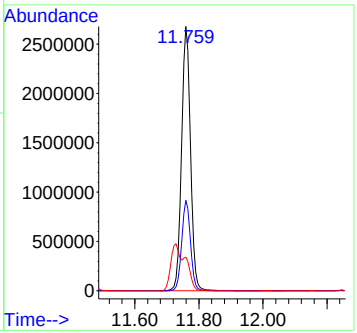


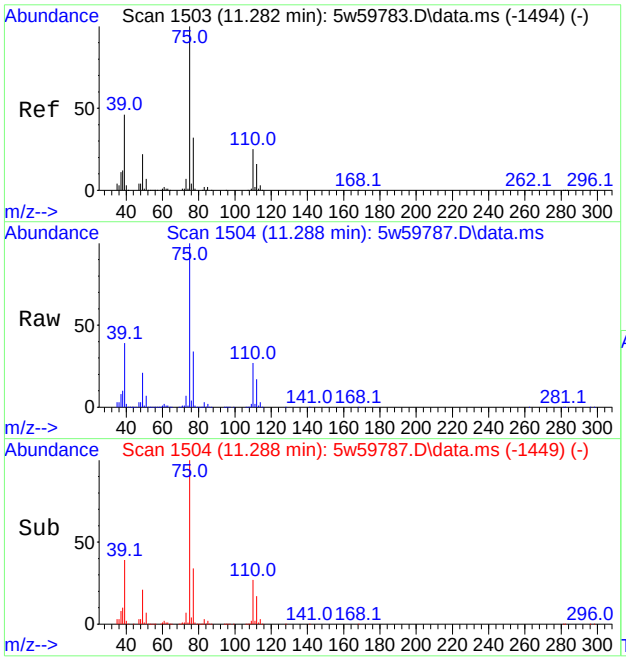


#67
1,3-DICHLOROPROPANE
Concen: 63.52 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 5183507

Ion	Ratio	Lower	Upper
76	100		
78	33.7	23.2	43.0
63	12.1	7.1	13.1

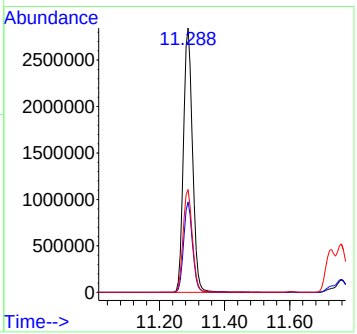


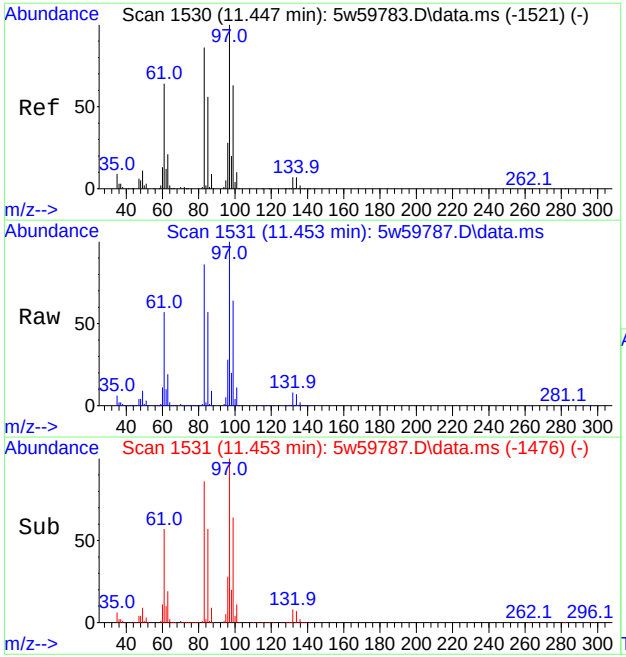


#68
trans-1,3-DICHLOROPROPENE
Concen: 63.59 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 5535715

Ion	Ratio	Lower	Upper
75	100		
77	33.3	1.6	61.6
39	40.1	16.1	76.1

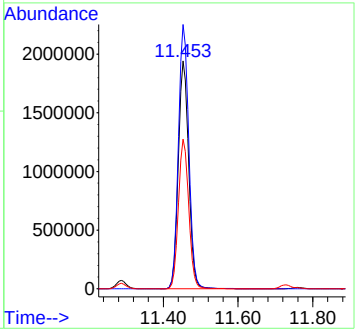


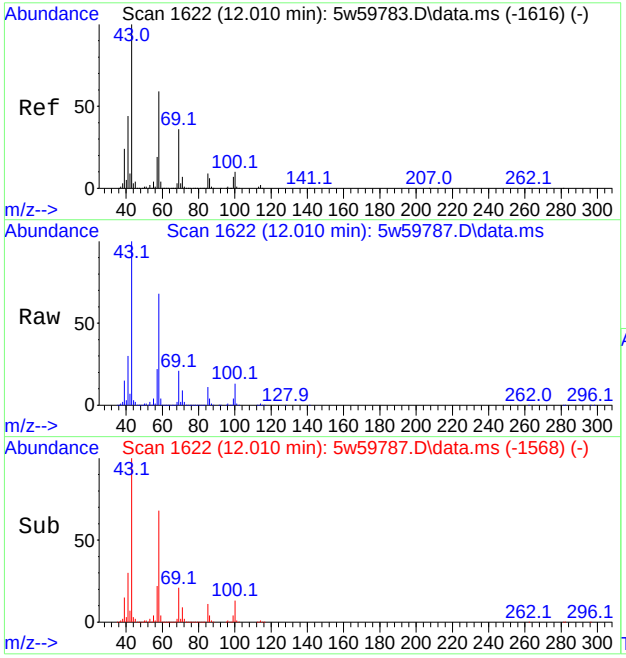


#69
1,1,2-TRICHLOROETHANE
Concen: 66.35 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 3736885

Ion	Ratio	Lower	Upper
83	100		
97	116.2	86.3	146.3
85	65.4	35.3	95.3

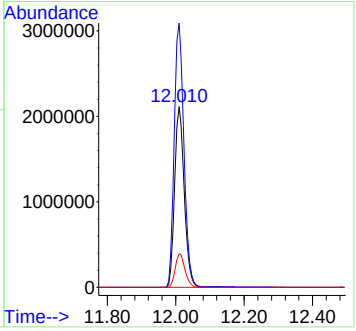


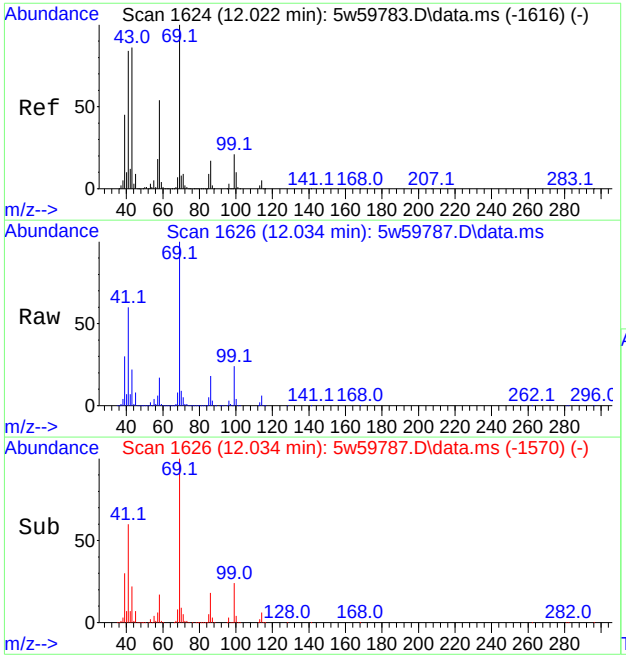


#71
2-HEXANONE
Concen: 54.00 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 4158676

Ion	Ratio	Lower	Upper
58	100		
43	147.9	137.2	197.2
100	18.9	0.0	46.9

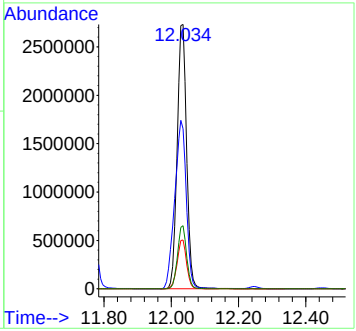


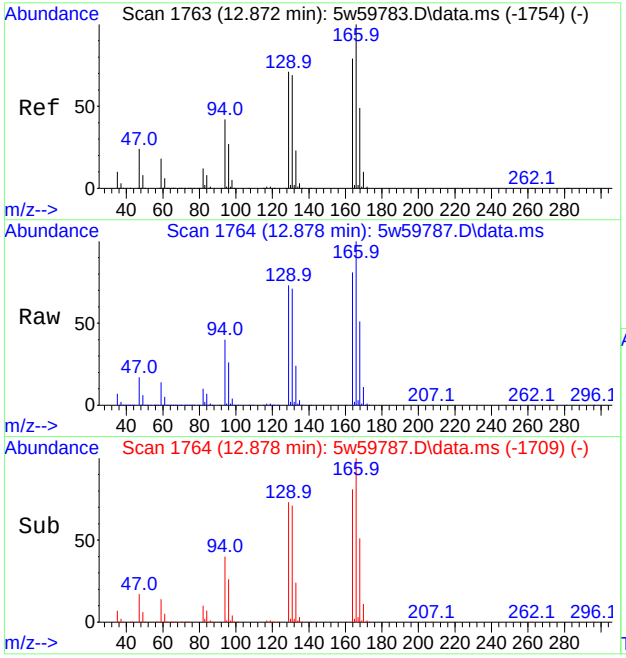


#72
ETHYL METHACRYLATE
Concen: 53.39 PPBV
RT: 12.034 min Scan# 1626
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 5321053

Ion	Ratio	Lower	Upper
69	100		
41	77.8	64.0	119.0
86	18.4	12.0	22.4
99	23.1	15.0	27.8

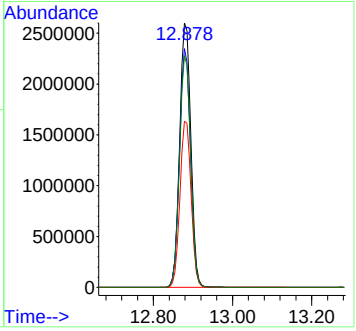


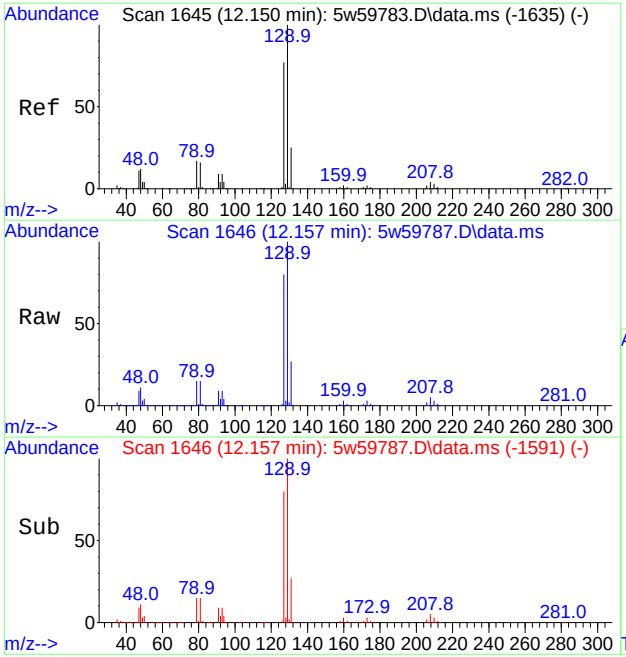


#73
TETRACHLOROETHYLENE
Concen: 56.17 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:164 Resp: 5112644

Ion	Ratio	Lower	Upper
164	100		
129	89.2	59.7	119.7
168	62.8	32.2	92.2
131	87.3	57.8	117.8

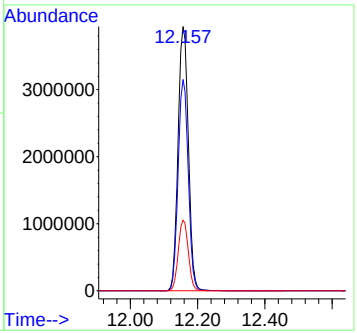


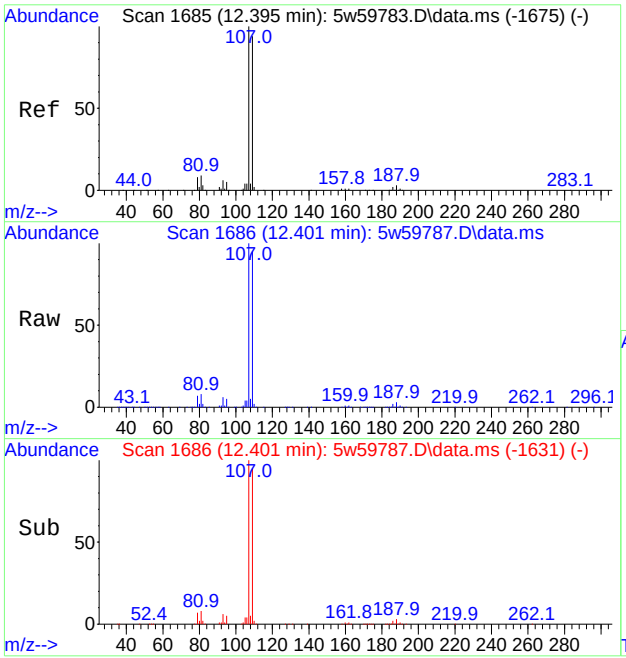


#74
DIBROMOCHLOROMETHANE
Concen: 52.38 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:129 Resp: 8396348

Ion	Ratio	Lower	Upper
129	100		
127	78.8	47.1	107.1
131	26.1	0.0	54.5

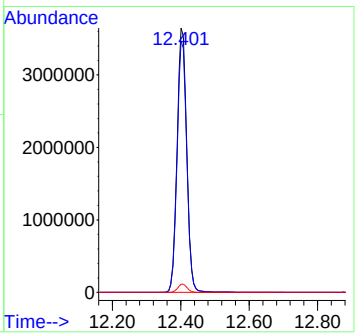


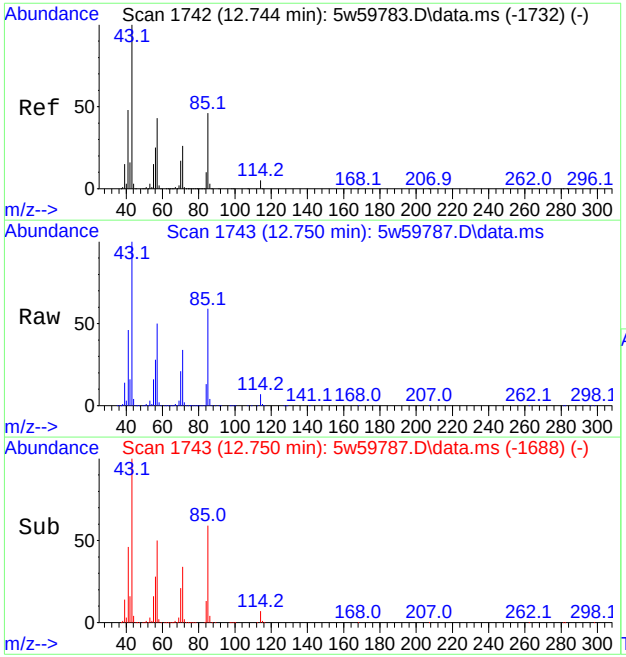


#75
1,2-DIBROMOETHANE
Concen: 57.04 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:107 Resp: 7189005

Ion	Ratio	Lower	Upper
107	100		
109	95.3	64.8	124.8
188	3.0	0.0	32.8

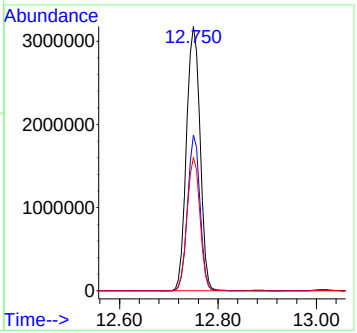


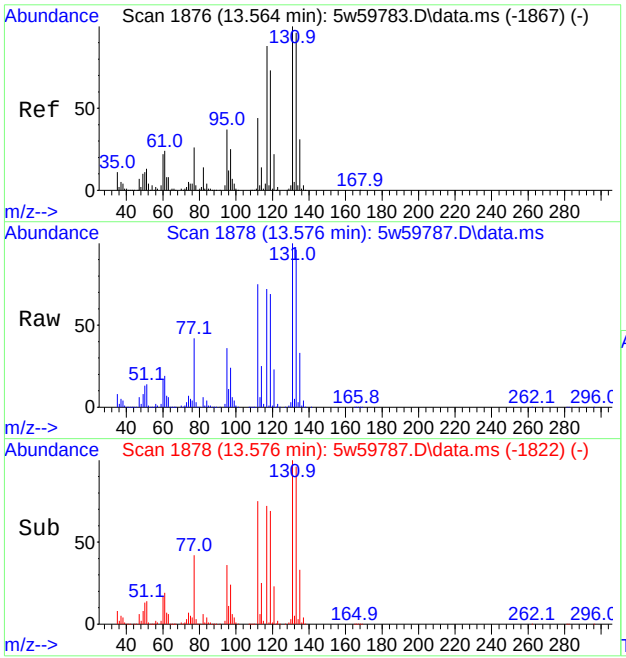


#76
OCTANE
Concen: 51.61 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 6099138

Ion	Ratio	Lower	Upper
43	100		
85	53.9	14.6	74.6
57	48.0	13.7	73.7

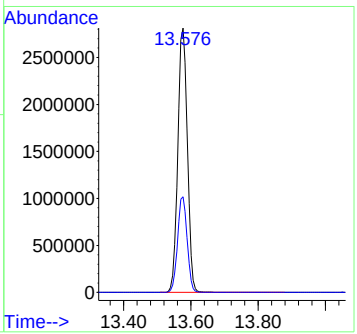


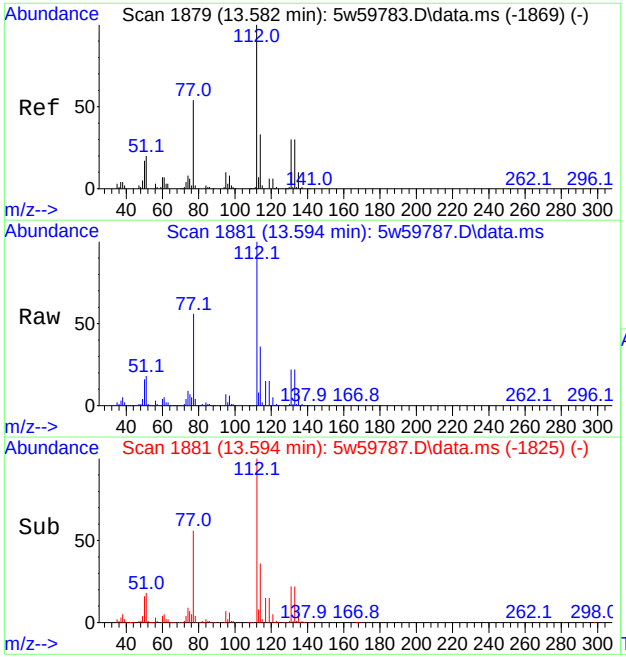


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 54.07 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:131 Resp: 5539677

Ion	Ratio	Lower	Upper
131	100		
95	36.2	6.5	66.5

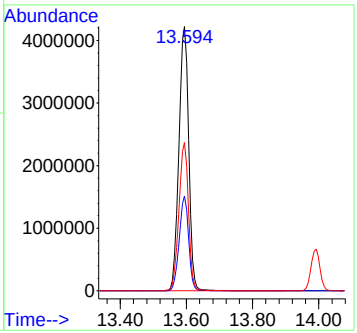


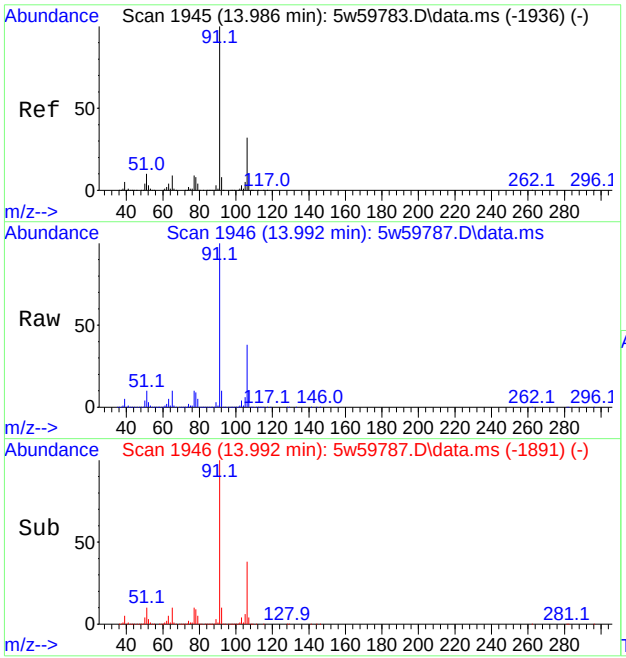


#78
CHLOROBENZENE
Concen: 52.99 PPBV
RT: 13.594 min Scan# 1881
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:112 Resp: 8685700

Ion	Ratio	Lower	Upper
112	100		
114	34.4	2.6	62.6
77	55.0	25.4	85.4

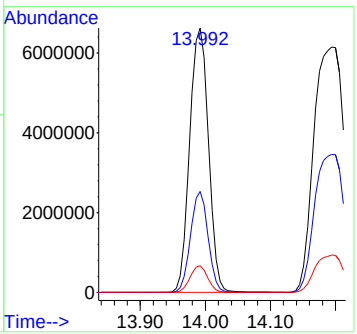


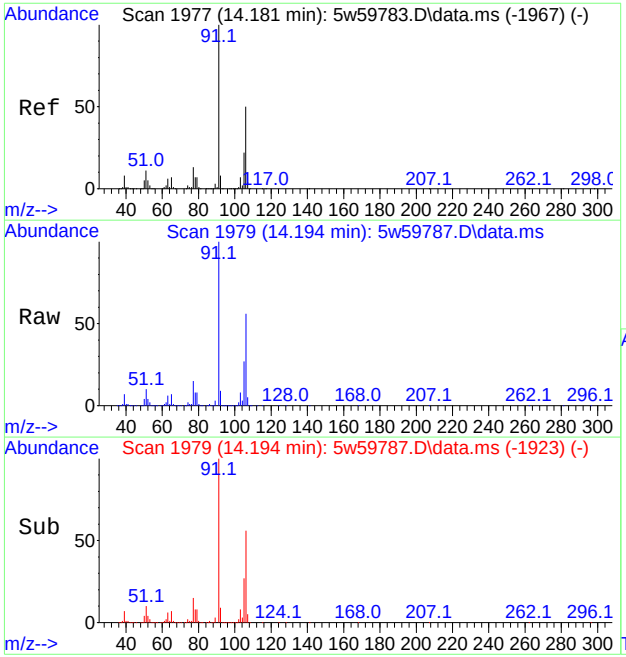


#79
ETHYLBENZENE
Concen: 52.78 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:13293280

Ion	Ratio	Lower	Upper
91	100		
106	35.6	1.3	61.3
77	9.4	0.0	38.6

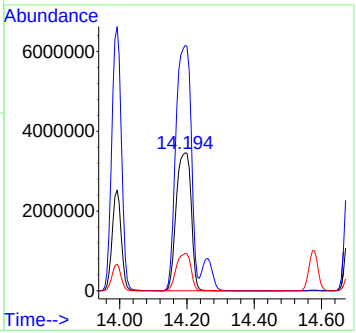


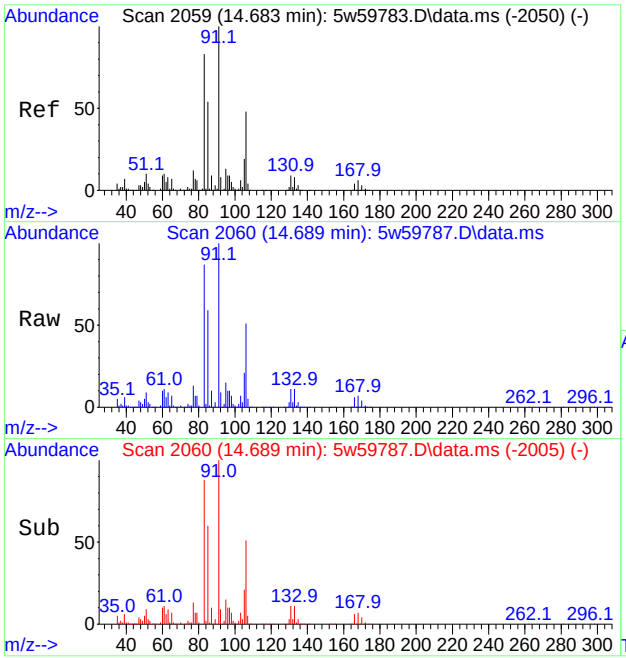


#80
m,p-XYLENE
Concen: 104.01 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp:10660694

Ion	Ratio	Lower	Upper
106	100		
91	177.8	171.0	231.0
77	27.1	0.0	56.7

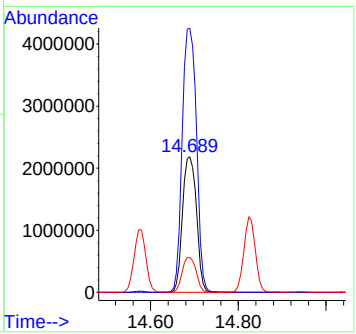


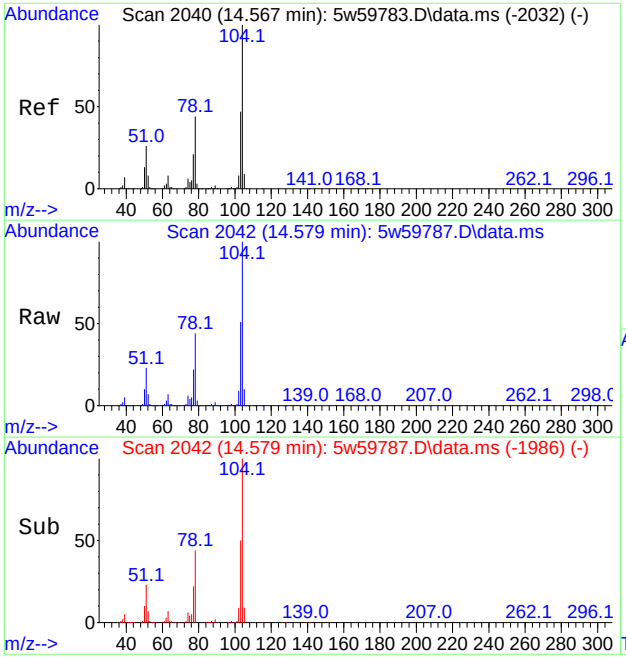


#81
o-XYLENE
Concen: 49.93 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 4828440

Ion	Ratio	Lower	Upper
106	100		
91	199.8	181.6	241.6
77	25.8	0.0	56.6

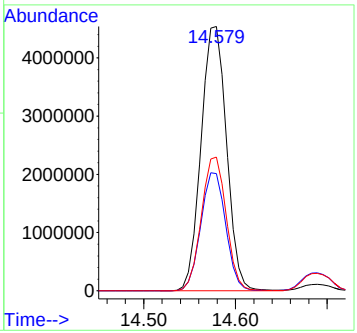


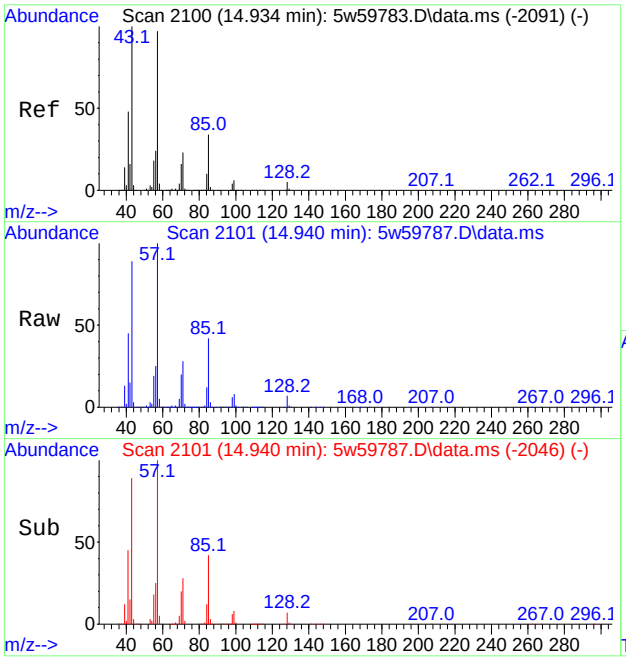


#82
STYRENE
Concen: 56.42 PPBV
RT: 14.579 min Scan# 2042
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:104 Resp: 8801086

Ion	Ratio	Lower	Upper
104	100		
78	43.7	13.3	73.3
103	49.3	17.2	77.2

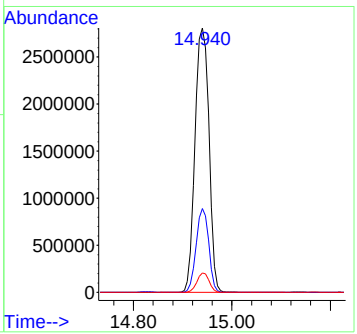


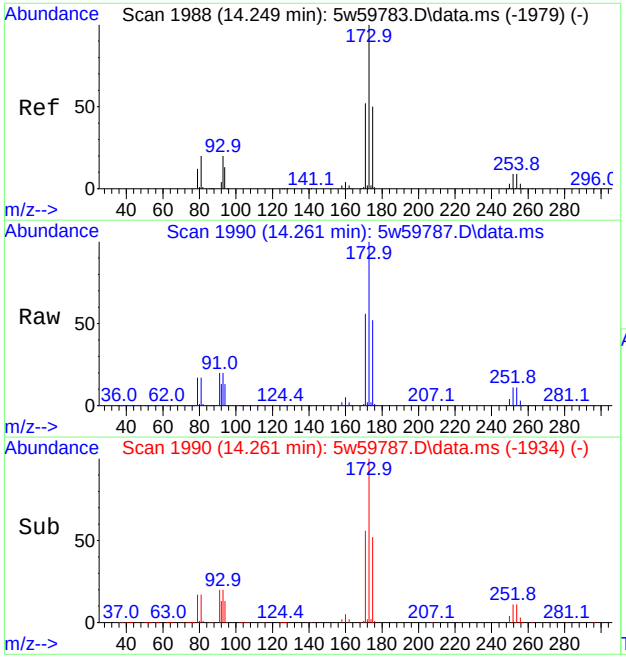


#83
NONANE
Concen: 46.77 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 5544485

Ion	Ratio	Lower	Upper
43	100		
71	28.5	0.0	52.7
128	6.4	0.0	34.7

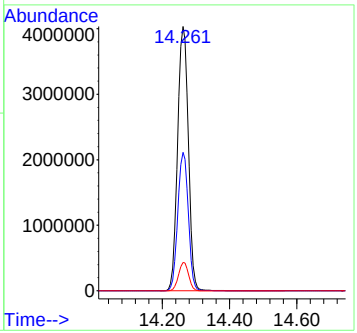


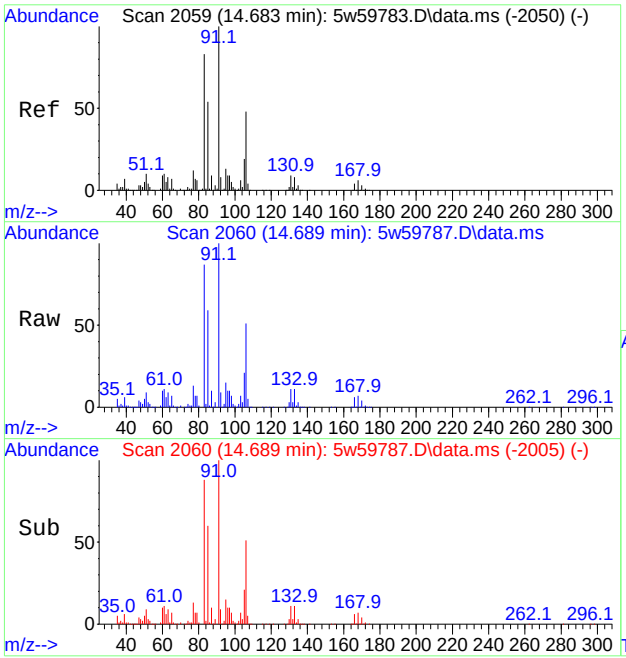


#84
BROMOFORM
Concen: 53.58 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:173 Resp: 8954982

Ion	Ratio	Lower	Upper
173	100		
175	51.3	19.6	79.6
254	10.1	0.0	39.0

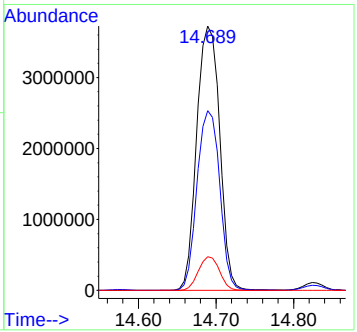


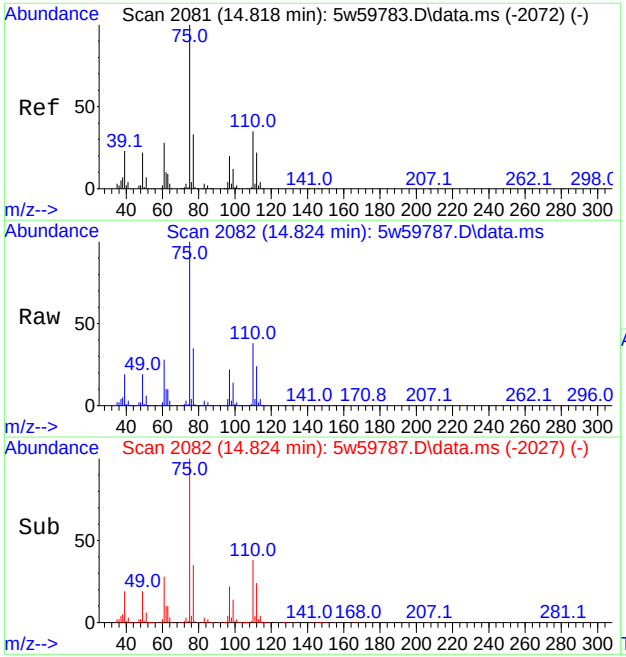


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 46.70 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7680268

Ion	Ratio	Lower	Upper
83	100		
85	67.0	35.2	95.2
131	11.7	0.0	40.3

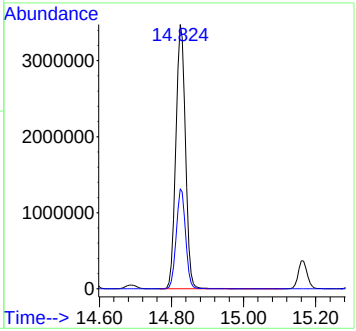


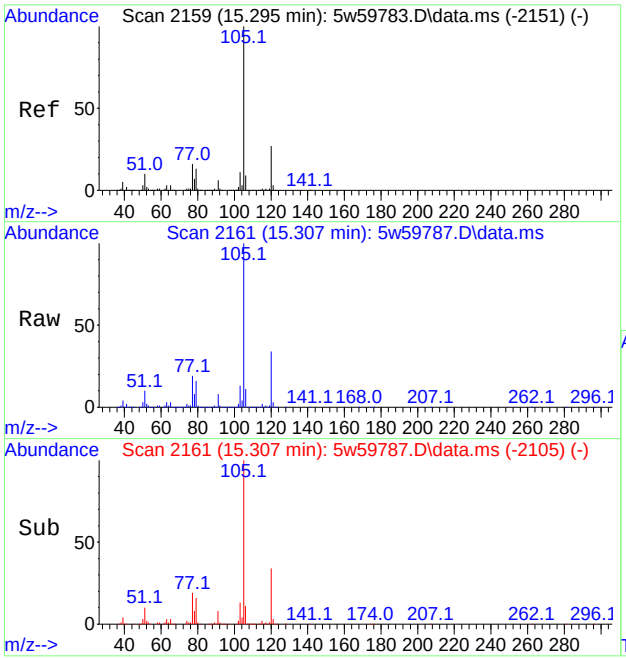


#87
1,2,3-TRICHLOROPROPANE
Concen: 53.62 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6463476

Ion	Ratio	Lower	Upper
75	100		
110	36.9	4.4	64.4

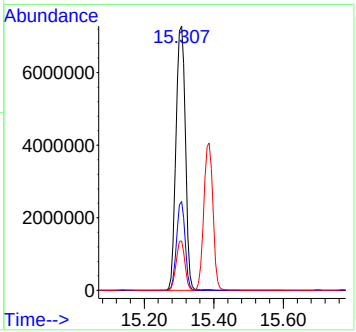


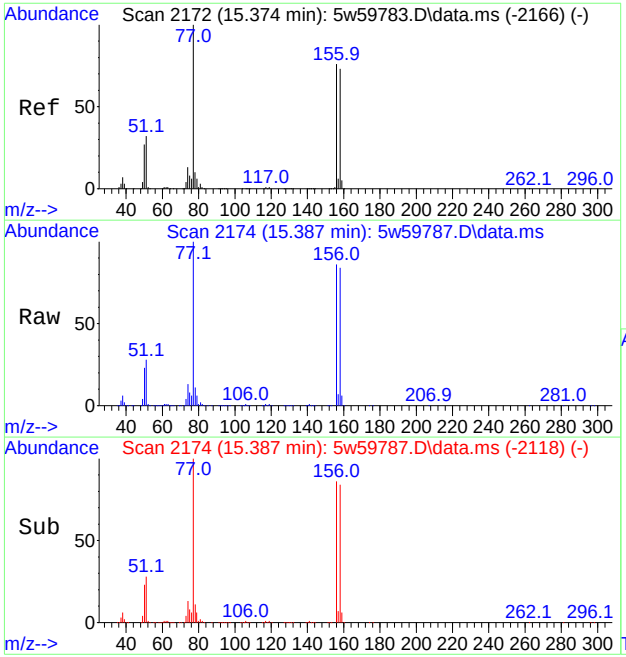


#88
ISOPROPYLBENZENE
Concen: 47.61 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13782072

Ion	Ratio	Lower	Upper
105	100		
120	30.8	0.0	56.0
77	17.4	0.0	45.6

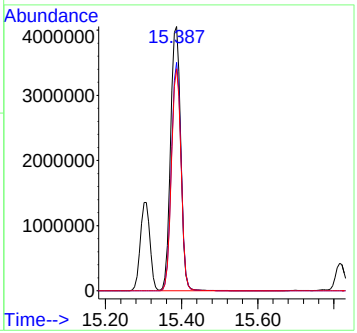


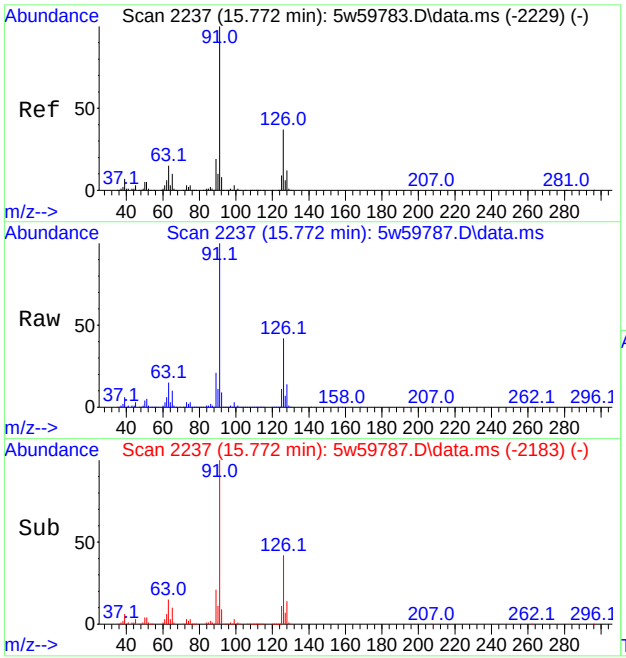


#89
BROMOBENZENE
Concen: 50.72 PPBV
RT: 15.387 min Scan# 2174
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 77 Resp: 7438070

Ion	Ratio	Lower	Upper
77	100		
156	83.1	54.9	101.9
158	80.8	53.5	99.3

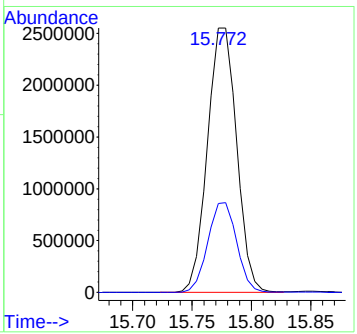


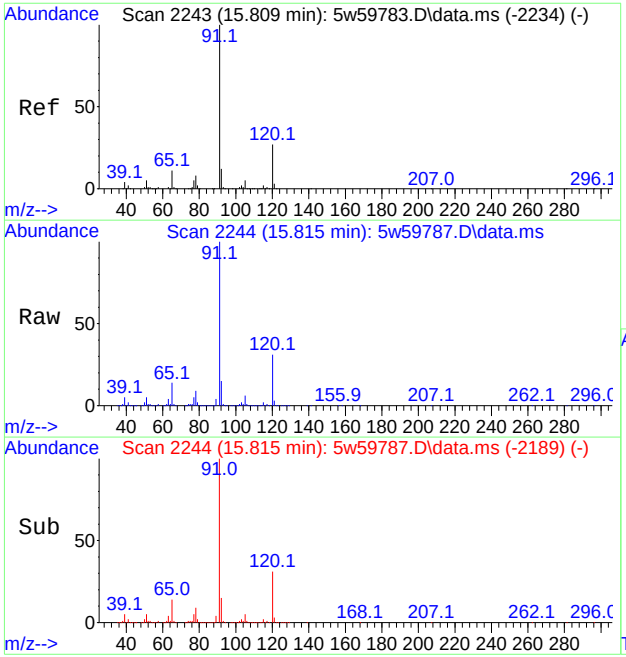


#90
2-CHLOROTOLUENE
Concen: 53.10 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:126 Resp: 4362530

Ion	Ratio	Lower	Upper
126	100		
128	33.5	2.7	62.7

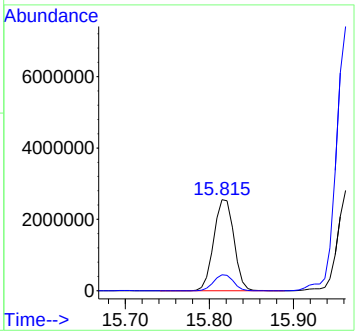


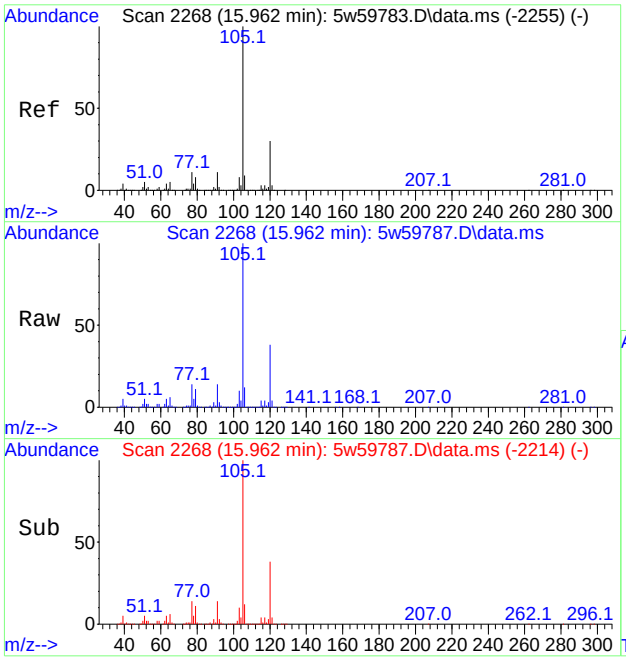


#91
n-PROPYLBENZENE
Concen: 52.74 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:120 Resp: 4269312

Ion	Ratio	Lower	Upper
120	100		
105	17.2	0.0	47.0

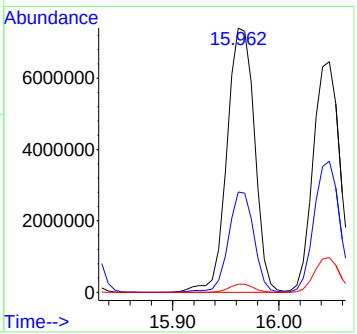


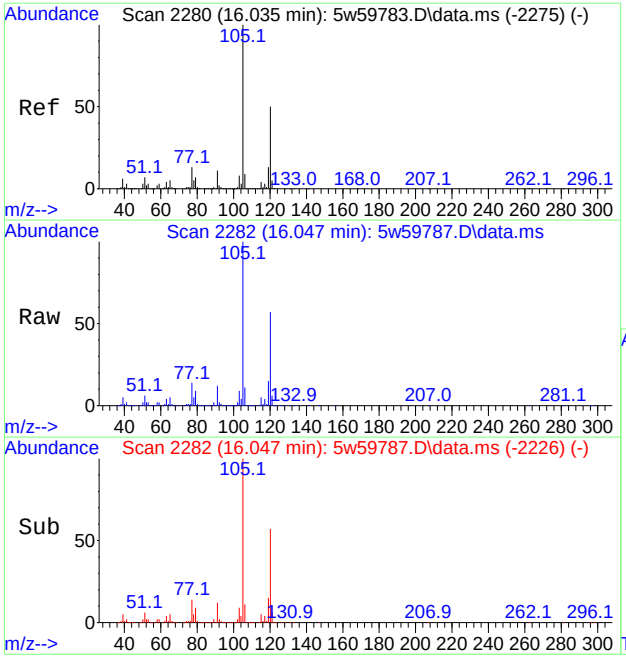


#92
4-ETHYLTOLUENE
Concen: 48.02 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13388380

Ion	Ratio	Lower	Upper
105	100		
120	35.0	0.0	59.9
119	2.8	0.0	32.3

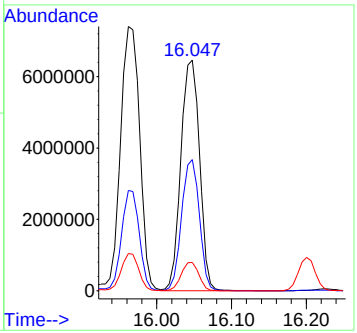


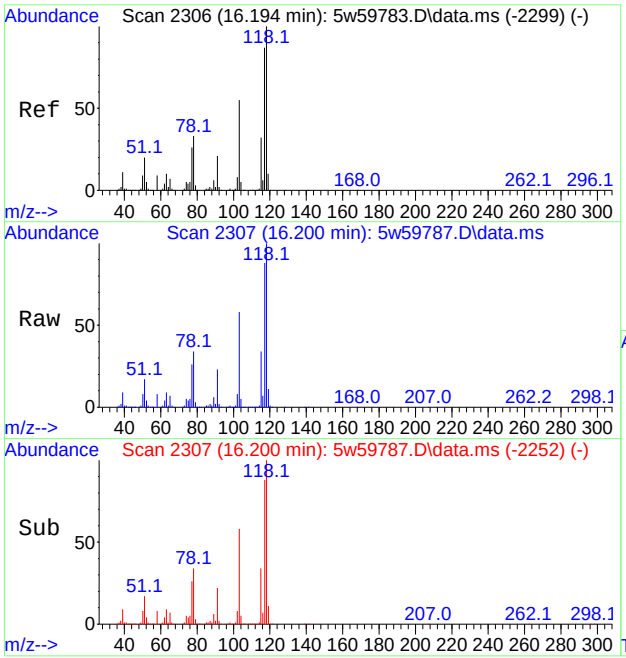


#93
1,3,5-TRIMETHYLBENZENE
Concen: 47.79 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:11253685

Ion	Ratio	Lower	Upper
105	100		
120	54.0	19.4	79.4
91	11.6	0.0	40.8

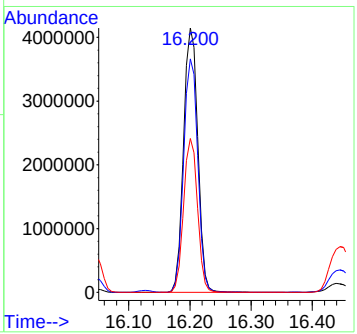


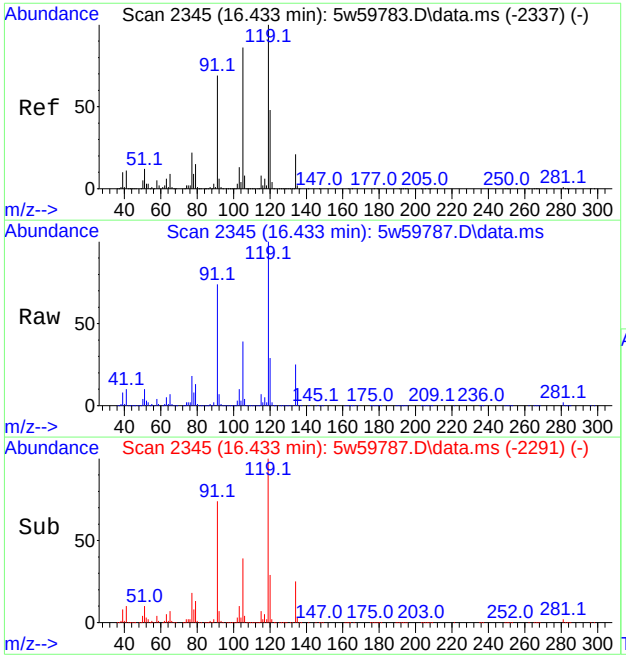


#94
ALPHA-METHYLSTYRENE
Concen: 50.76 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:118 Resp: 6738901

Ion	Ratio	Lower	Upper
118	100		
117	88.0	60.9	113.1
103	56.8	38.6	71.8

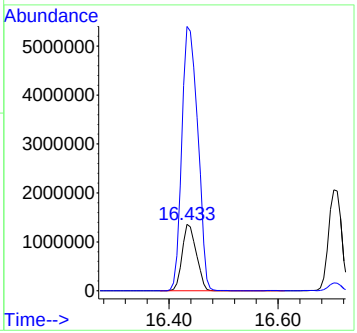


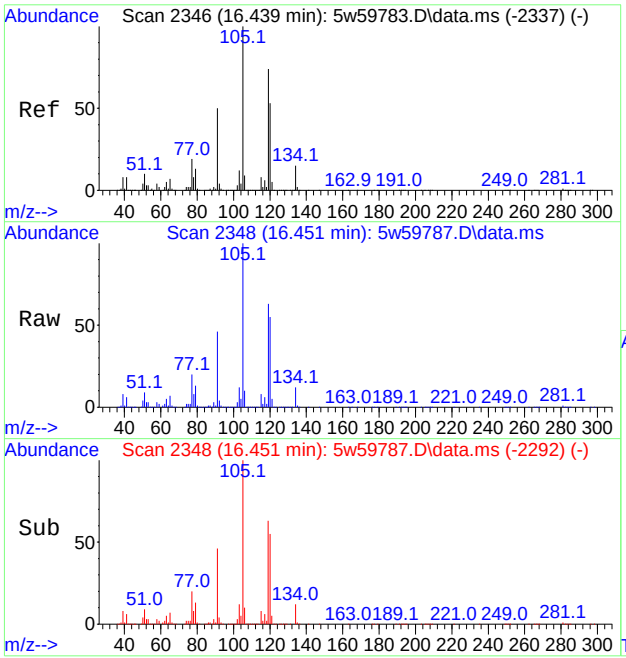


#95
tert-BUTYLBENZENE
Concen: 46.98 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 2429034

Ion	Ratio	Lower	Upper
134	100		
119	449.7	459.3	519.3#

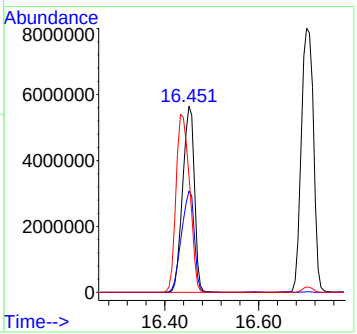


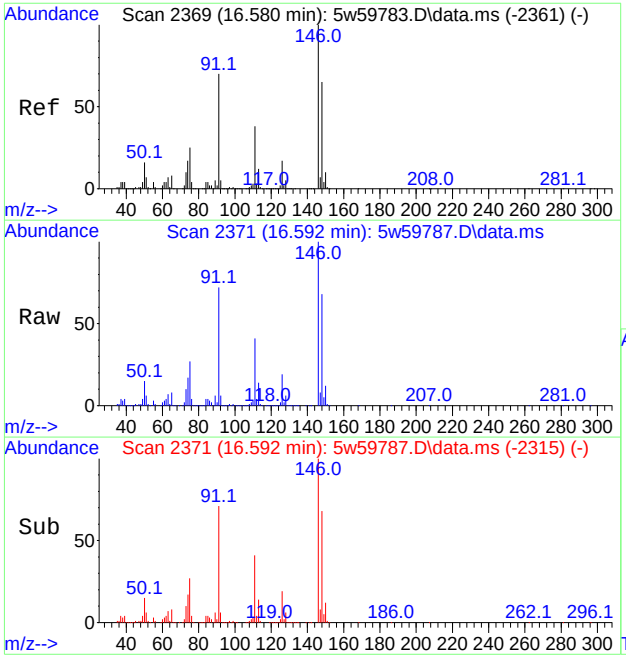


#96
1,2,4-TRIMETHYLBENZENE
Concen: 42.68 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9912721

Ion	Ratio	Lower	Upper
105	100		
120	59.1	25.7	85.7
119	110.2	75.7	135.7

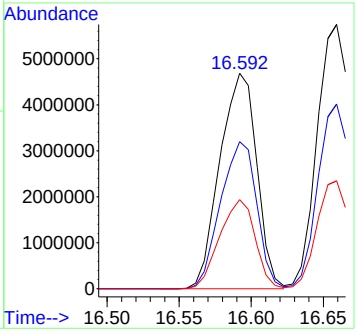


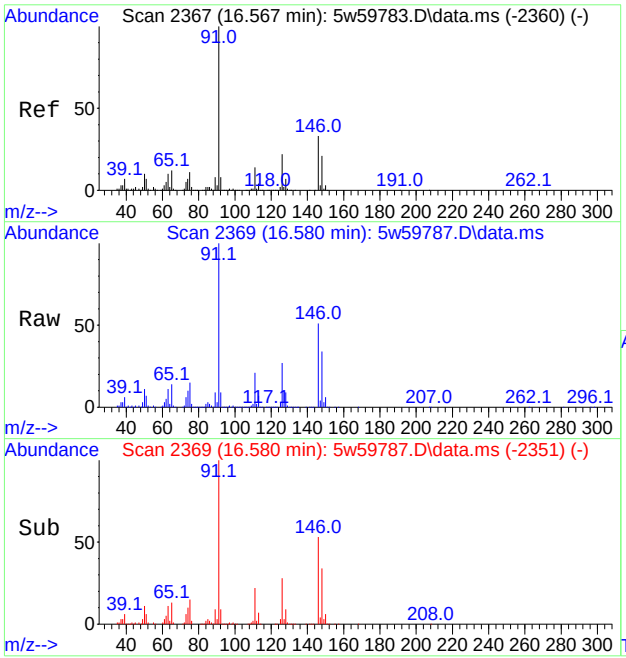


#97
m-DICHLOROBENZENE
Concen: 44.49 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 8350505

Ion	Ratio	Lower	Upper
146	100		
148	66.9	34.8	94.8
111	39.8	8.2	68.2

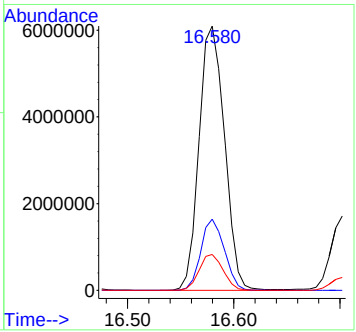


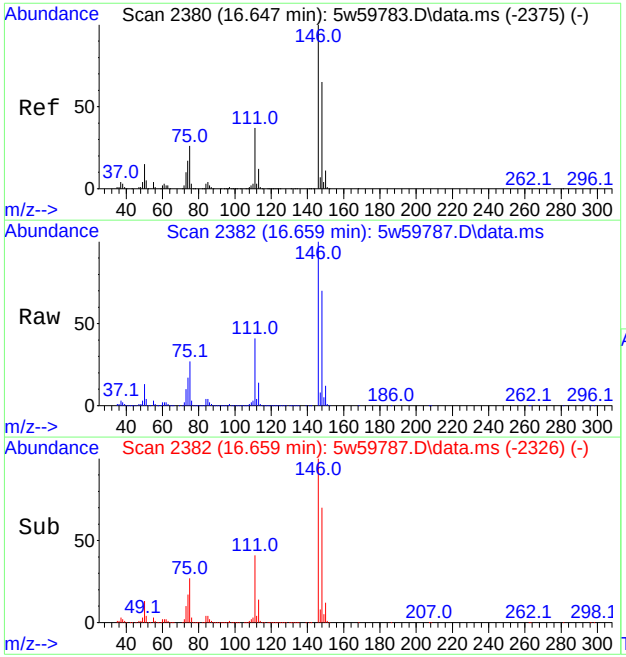


#98
BENZYL CHLORIDE
Concen: 42.40 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:10182019

Ion	Ratio	Lower	Upper
91	100		
126	25.0	0.0	51.7
65	12.9	0.0	42.2

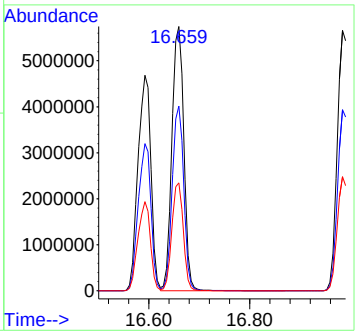


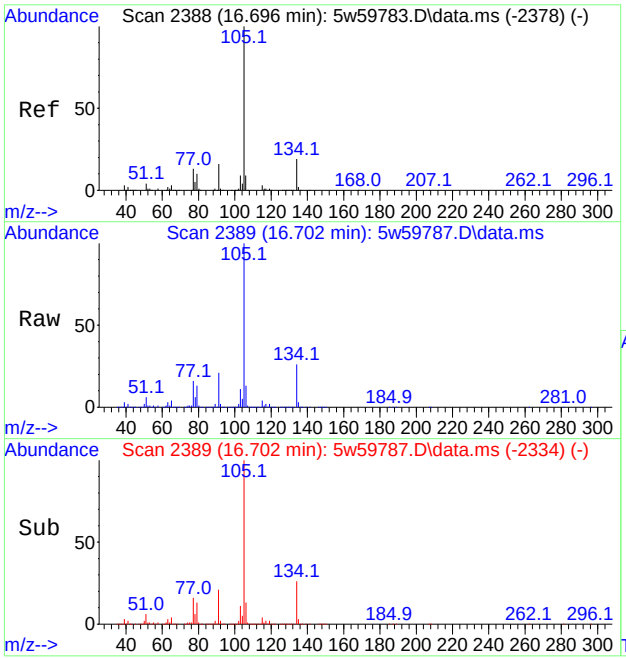


#99
p-DICHLOROBENZENE
Concen: 51.05 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9434738

Ion	Ratio	Lower	Upper
146	100		
148	67.8	34.6	94.6
111	39.2	6.7	66.7

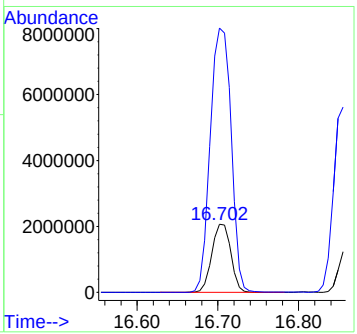


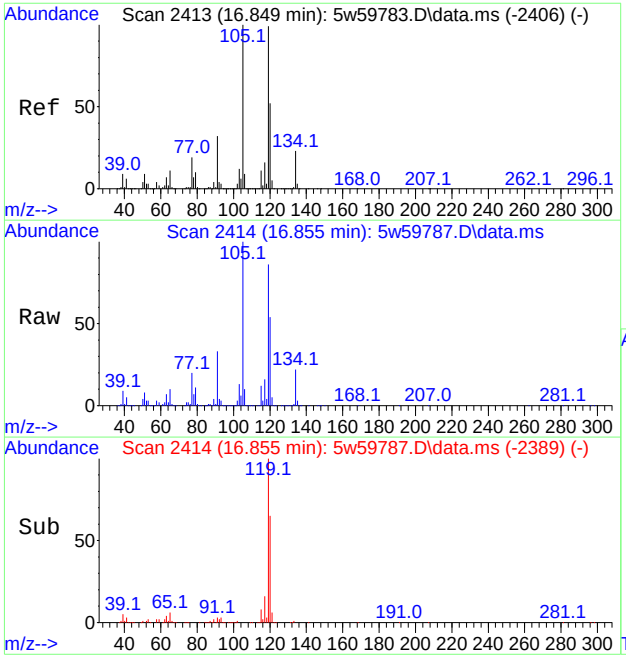


#100
sec-BUTYLBENZENE
Concen: 52.25 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3389691

Ion	Ratio	Lower	Upper
134	100		
105	427.3	502.5	562.5#

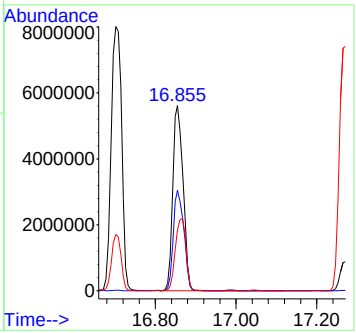


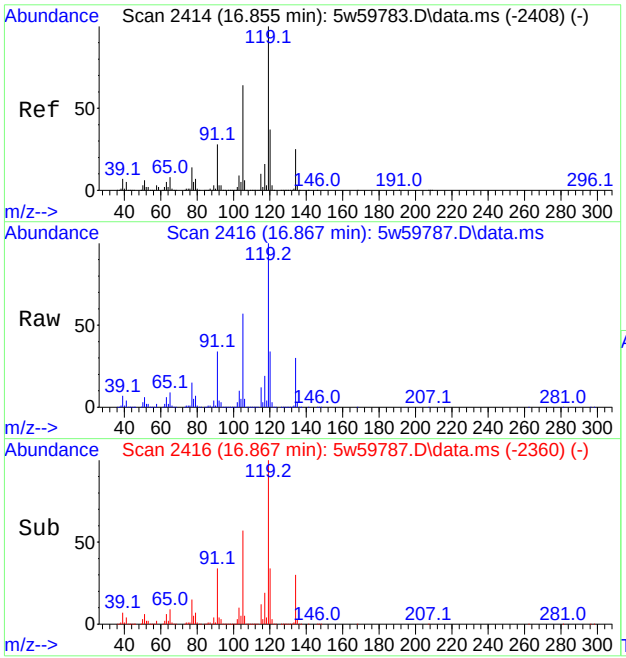


#101
1,2,3-TRIMETHYLBENZENE
Concen: 41.33 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9964483

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	40.0	7.4	67.4

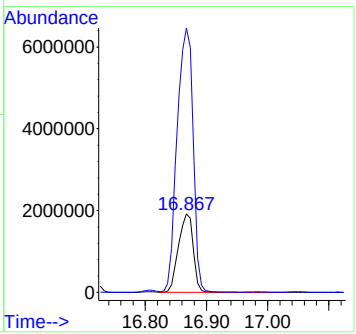


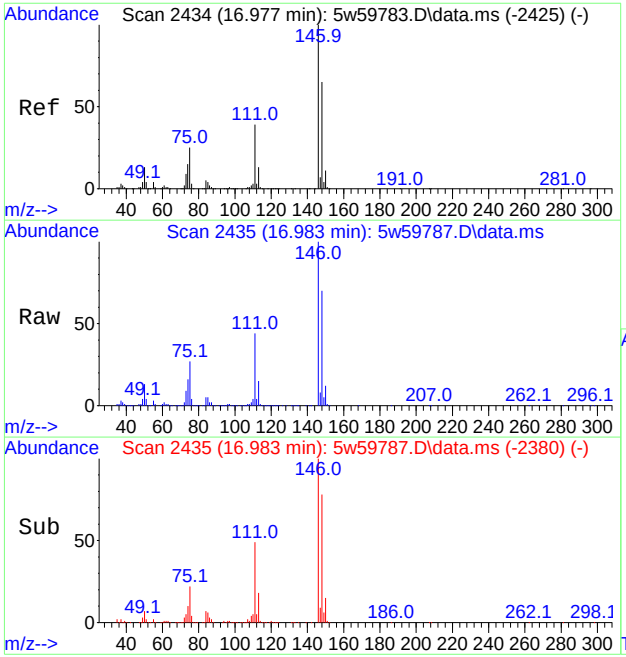


#102
p-ISOPROPYLTOLUENE
Concen: 42.88 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3209884

Ion	Ratio	Lower	Upper
134	100		
119	366.4	377.7	437.7#

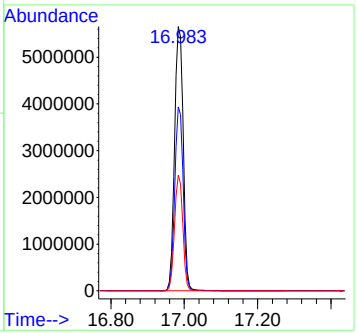


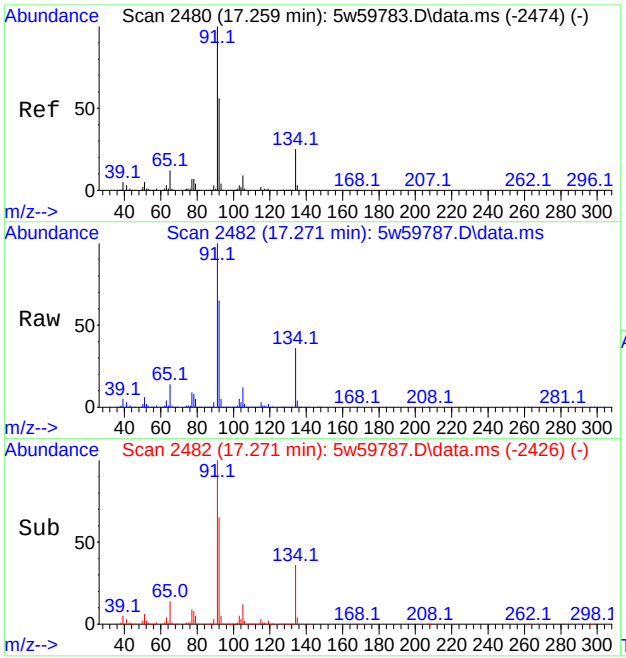


#103
o-DICHLOROBENZENE
Concen: 51.54 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9264152

Ion	Ratio	Lower	Upper
146	100		
148	67.6	34.3	94.3
111	41.8	9.2	69.2

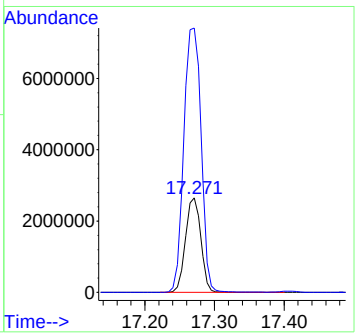


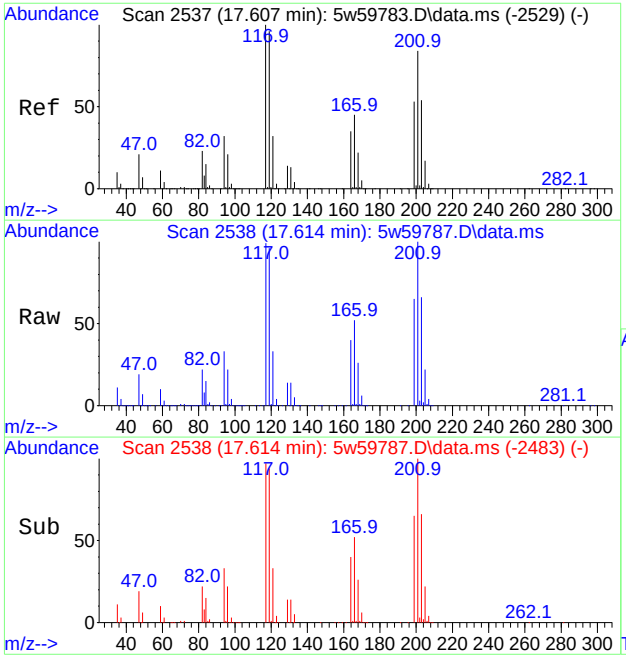


#104
n-BUTYLBENZENE
Concen: 53.04 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 4068110

Ion	Ratio	Lower	Upper
134	100		
91	315.5	363.1	423.1#

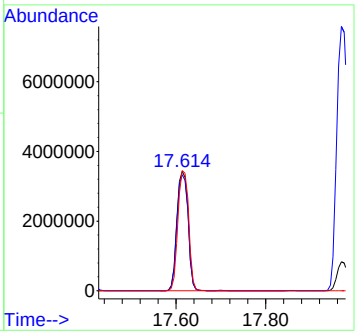


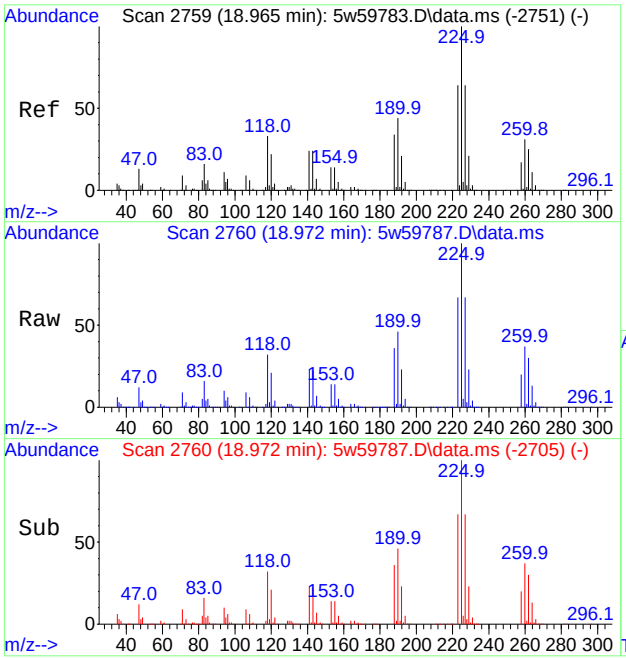


#105
HEXACHLOROETHANE
Concen: 48.19 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 5943910

Ion	Ratio	Lower	Upper
117	100		
119	96.7	67.2	124.8
201	96.6	61.1	113.5

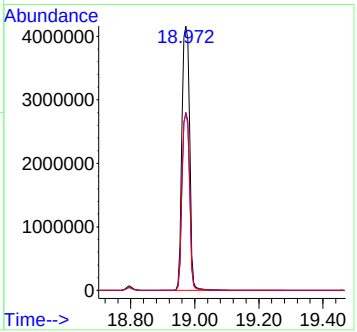


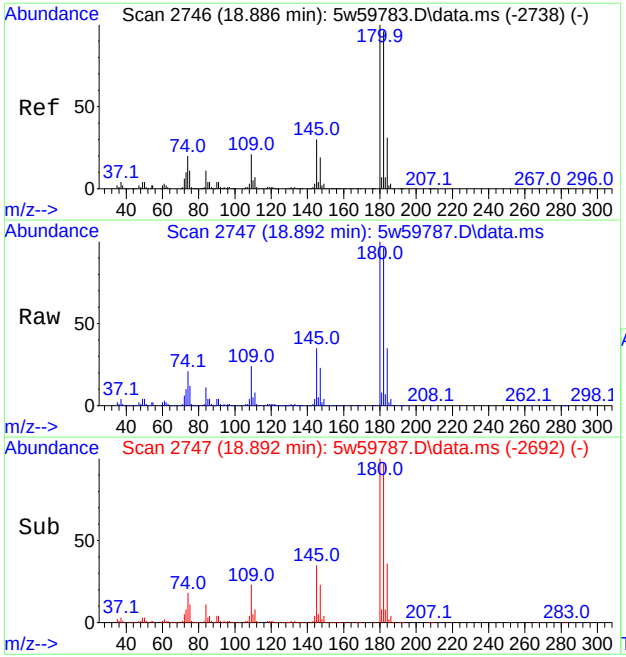


#106
HEXACHLOROBUTADIENE
Concen: 42.04 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:225 Resp: 6941797

Ion	Ratio	Lower	Upper
225	100		
227	66.3	34.2	94.2
223	65.7	33.3	93.3

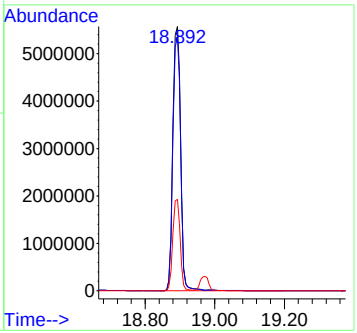


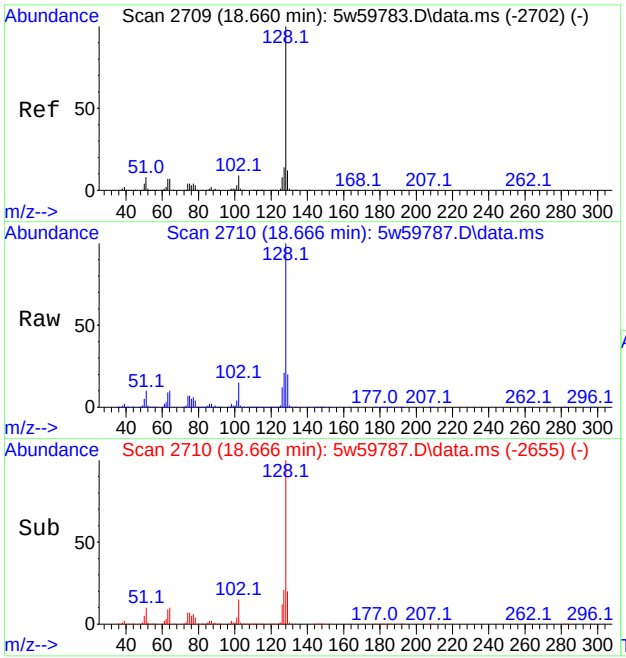


#107
1,2,4-TRICHLOROBENZENE
Concen: 50.18 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:180 Resp: 8668660

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	32.7	0.0	59.4

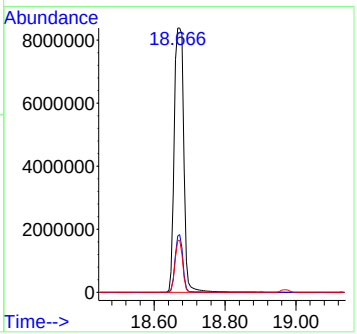


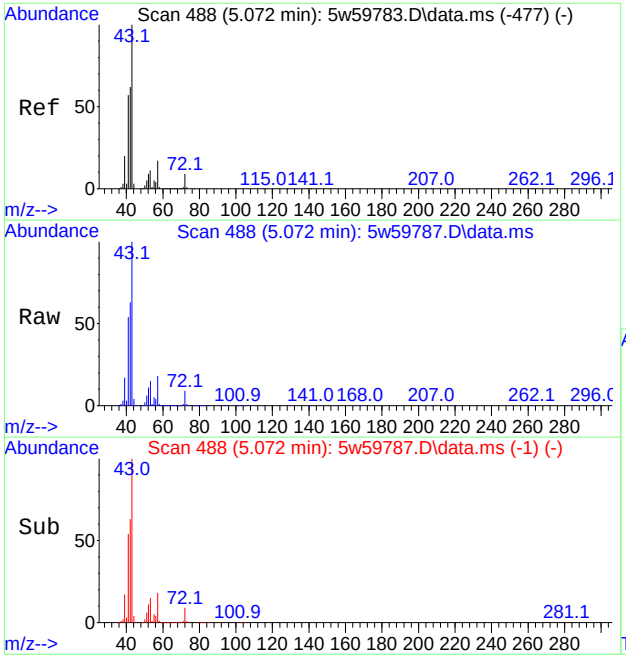


#108
NAPHTHALENE
Concen: 41.73 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:128 Resp:15644412

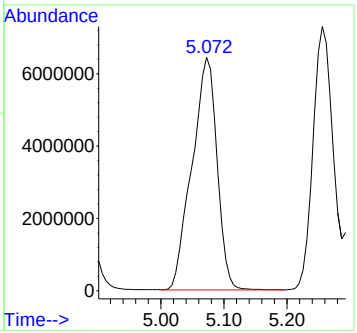
Ion	Ratio	Lower	Upper
128	100		
127	17.9	0.0	43.3
129	16.0	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 64.59 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:TIC Resp:17678397



7.7.10

7

Manual Integration Approval Summary

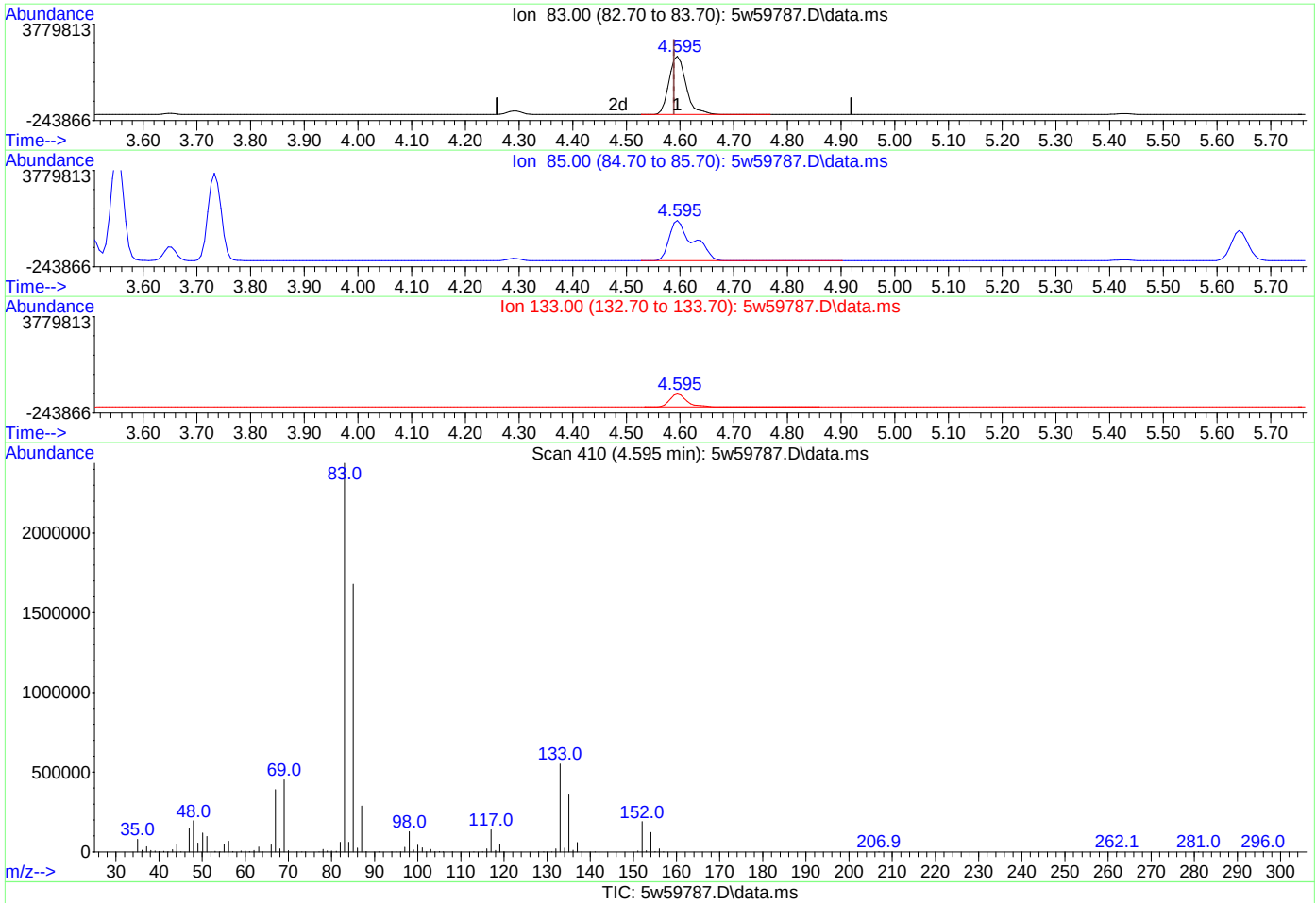
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59787.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 10:24 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV

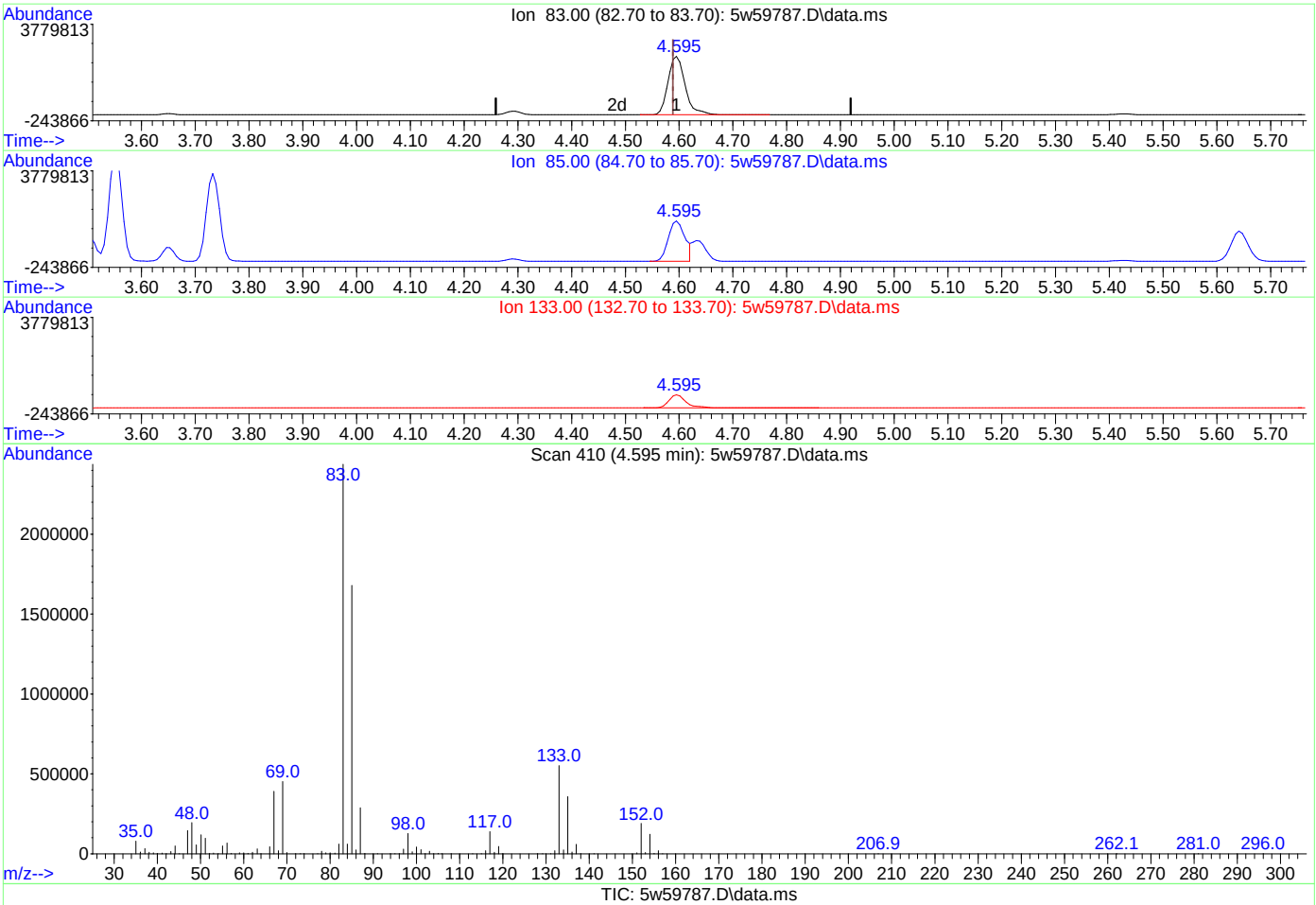
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	96.25#
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV m

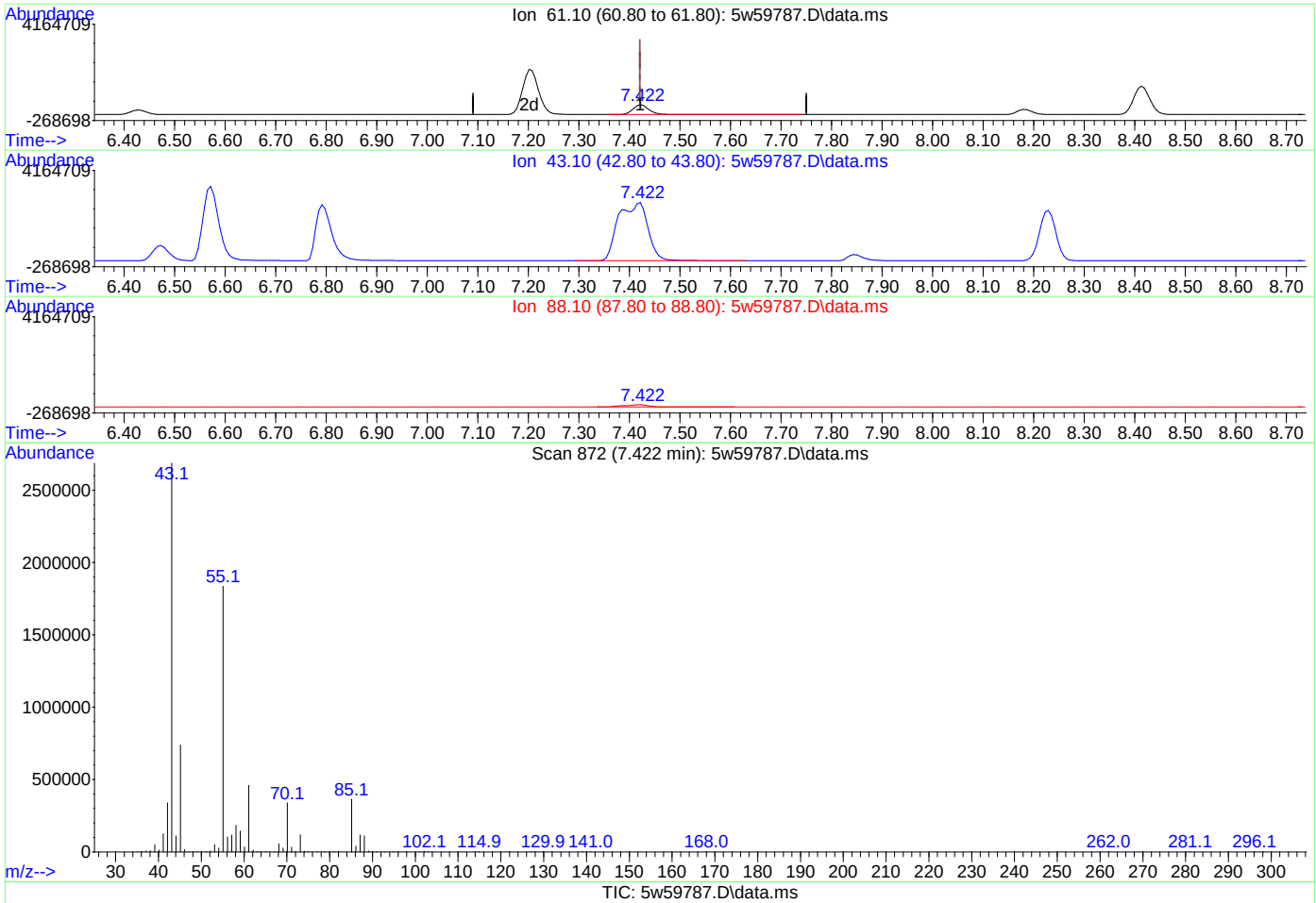
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	67.57
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV

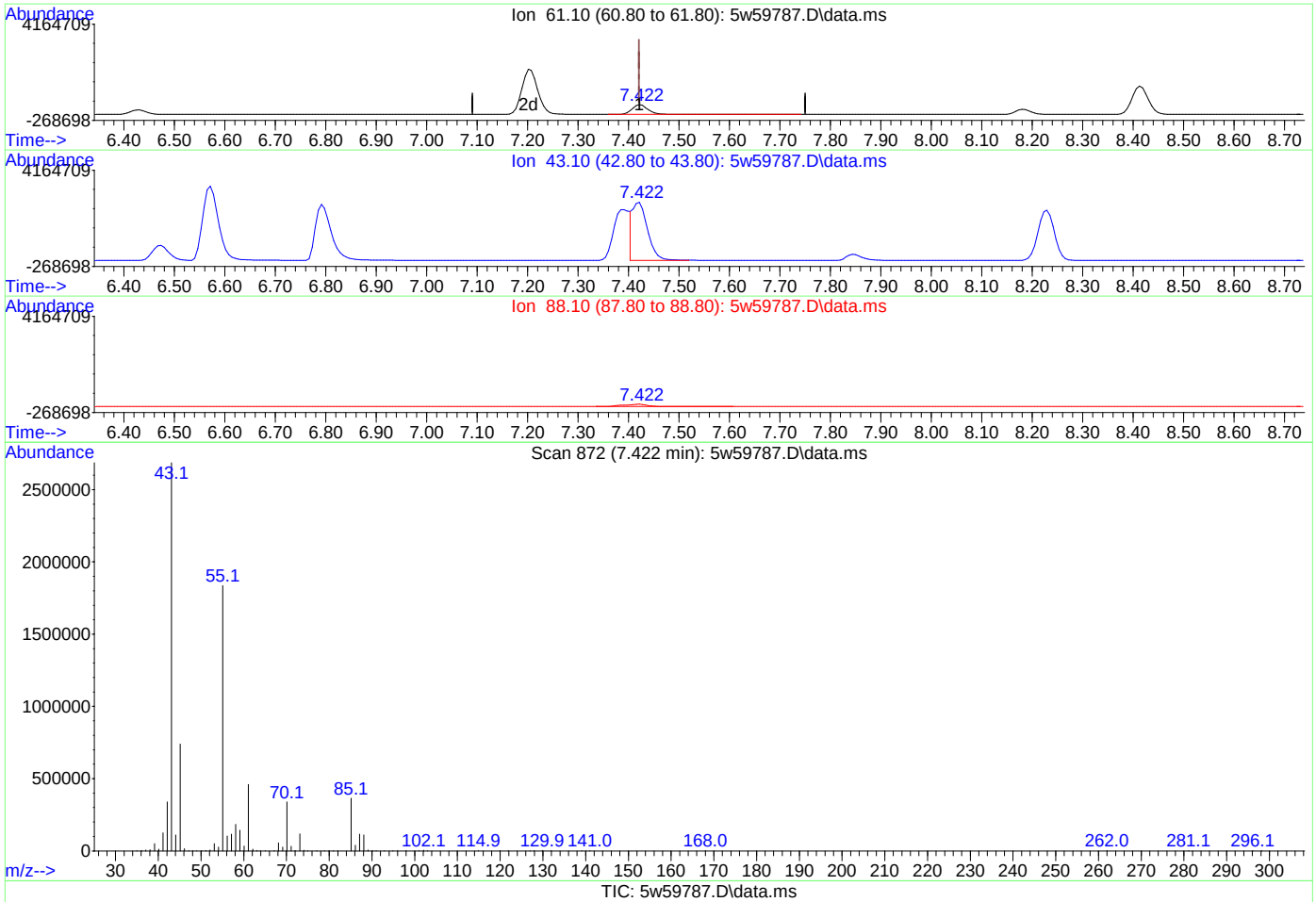
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1080.14#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV m

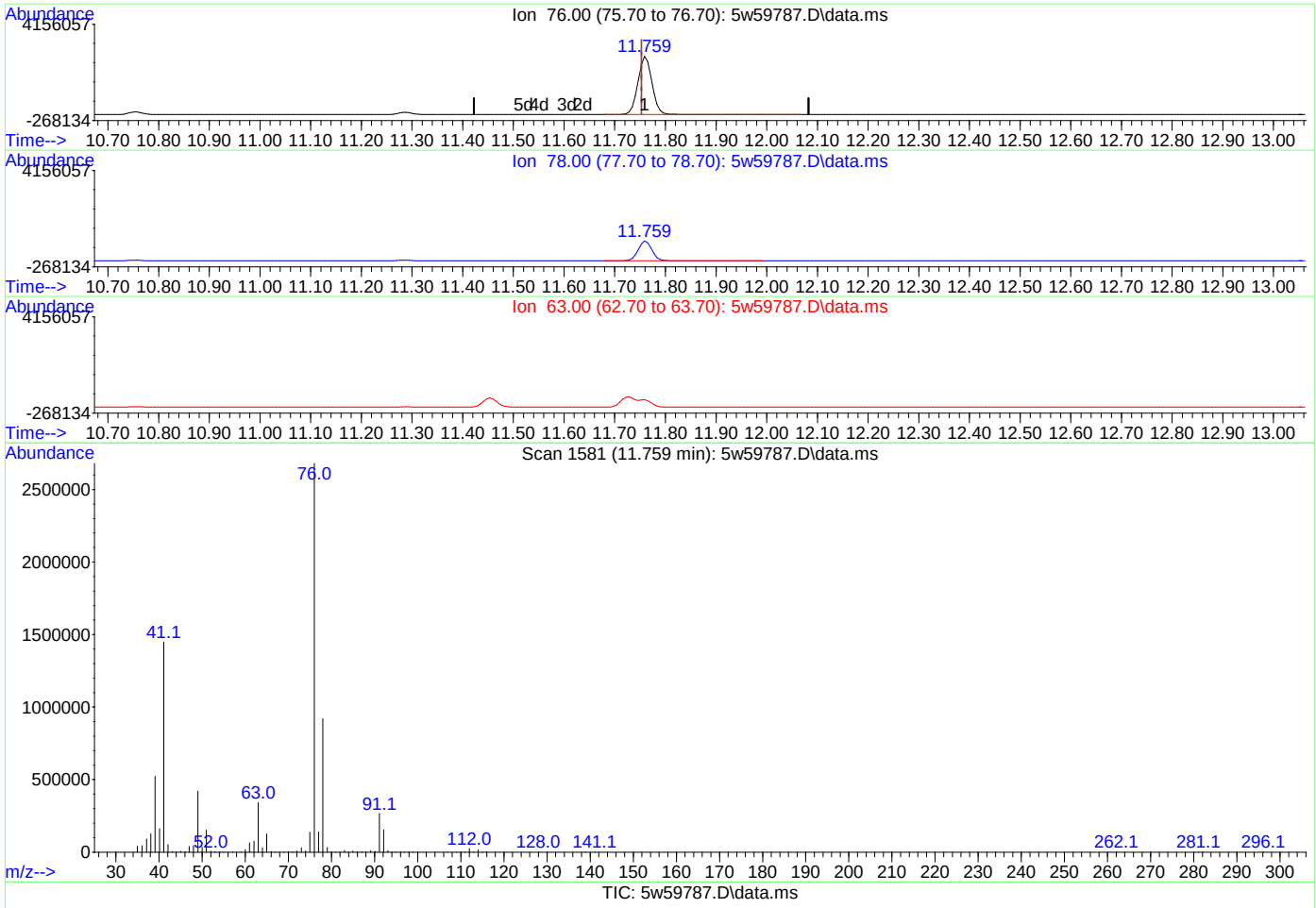
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	545.04#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV

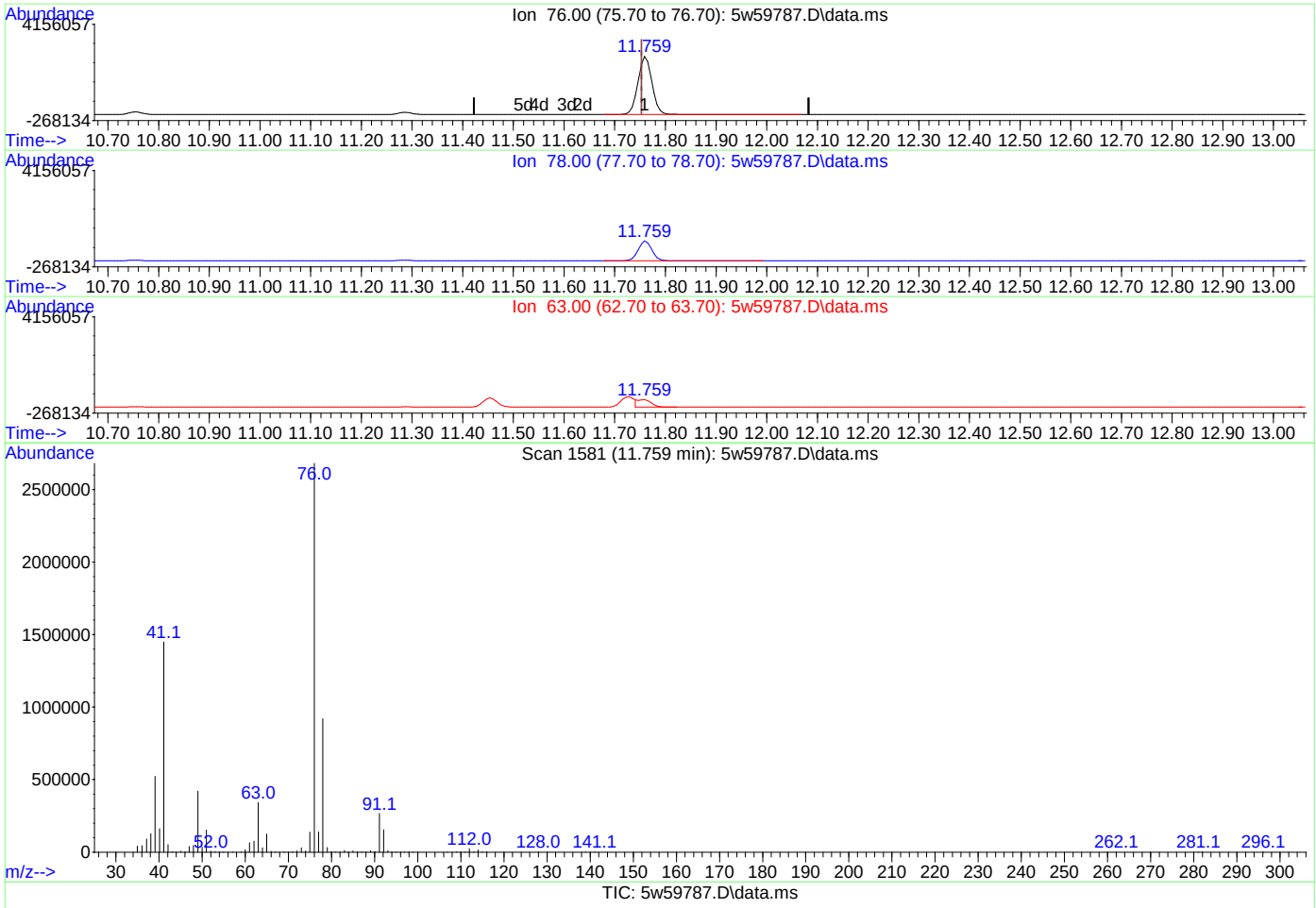
response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV m

response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	12.12
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	498212	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2163467	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1167536	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	498212	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1483789	10.17	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.70%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	415215	12.16	PPBV	100
3) FREON 152A	3.445	65	342794	9.28	PPBV	99
4) CHLORODIFLUOROMETHANE	3.476	67	168320	10.89	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	800294	10.34	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.549	85	1577776	11.07	PPBV	99
7) PROPYLENE	3.500	41	381437	9.97	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1137041	9.85	PPBV	100
9) FREON 114	3.732	85	1508684	11.57	PPBV	99
10) CHLOROMETHANE	3.665	52	156659	10.00	PPBV	98
11) VINYL CHLORIDE	3.818	62	498882	10.34	PPBV	99
12) 1,3-BUTADIENE	3.910	54	299983	10.32	PPBV	99
13) n-BUTANE	3.947	43	491620	10.35	PPBV	99
14) BROMOMETHANE	4.106	94	546593	10.65	PPBV	100
15) CHLOROETHANE	4.228	64	217760	9.25	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1122027	10.94	PPBV	100
17) ACETONITRILE	4.479	41	273749	10.09	PPBV	100
18) ACROLEIN	4.571	56	174000	11.29	PPBV	98
19) FREON 123	4.589	83	1172331	9.88	PPBV	73
20) FREON 123A	4.632	117	658691	9.67	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1322128	10.86	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	957946	9.81	PPBV	99
23) ACETONE	4.675	58	182115	9.32	PPBV	97
24) PENTANE	5.072	42	485024	9.56	PPBV	99
25) IODOMETHANE	5.256	142	1656951	10.92	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	514235	9.62	PPBV	99
27) CARBON DISULFIDE	5.672	76	1333722	9.53	PPBV	99
28) ETHANOL	4.314	45	175873	10.75	PPBV	99
29) BROMOETHENE	4.479	106	523753	10.35	PPBV	100
30) ACRYLONITRILE	5.042	52	335497	10.15	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	460743	9.22	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	235062	9.77	PPBV	98
33) FREON 113	5.641	151	936508	10.53	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	523452	9.34	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.372	59	1150749	11.52	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1424107	10.10	PPBV	100
37) TETRAHYDROFURAN	7.856	72	236078	12.20	PPBV	99
38) HEXANE	7.379	57	814752	10.24	PPBV	100
39) VINYL ACETATE	6.565	86	92915	11.55	PPBV #	94
40) 1,1-DICHLOROETHANE	6.424	63	1012856	9.85	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	231727	12.04	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.195	96	576053	9.43	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	255743	12.23	PPBV	99
44) ETHYL ACETATE	7.415	61	170036	11.56	PPBV #	1
45) METHYL ACRYLATE	7.403	55	1019941	12.95	PPBV	100
46) CHLOROFORM	7.477	83	1206541	10.89	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	967097	10.74	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1259183	10.90	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1361951	10.85	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	857881	11.15	PPBV		100
52)	BENZENE	8.853	78	1601042	11.05	PPBV		100
53)	CYCLOHEXANE	9.104	84	624324	10.78	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	314676	10.75	PPBV		98
55)	TRICHLOROETHYLENE	9.887	95	782511	10.60	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	634380	9.43	PPBV		100
57)	DIBROMOMETHANE	9.630	174	826704	10.02	PPBV		100
58)	ETHYL ACRYLATE	9.679	55	1259813	11.98	PPBV		100
59)	BROMODICHLOROMETHANE	9.850	83	1390089	10.86	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2555629	11.14	PPBV		100
61)	1,4-DIOXANE	9.899	88	390530	11.81	PPBV	#	89
62)	HEPTANE	10.187	43	861635	10.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	552495	11.70	PPBV		100
64)	METHYL ISOBUTYL KETONE	10.792	58	532725	12.46	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	10.749	75	990327	9.61	PPBV		100
66)	TOLUENE	11.722	92	1196655	11.05	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	950675	10.77	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	940495	9.66	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	646298	10.99	PPBV		100
71)	2-HEXANONE	12.010	58	770539	12.62	PPBV		99
72)	ETHYL METHACRYLATE	12.022	69	966723	11.99	PPBV		99
73)	TETRACHLOROETHYLENE	12.872	164	915172	11.49	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.150	129	1566467	11.39	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	1272221	11.89	PPBV		100
76)	OCTANE	12.744	43	1249572	11.27	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1017442	11.62	PPBV		99
78)	CHLOROBENZENE	13.582	112	1647850	11.30	PPBV		100
79)	ETHYLBENZENE	13.986	91	2597260	11.61	PPBV		100
80)	m,p-XYLENE	14.182	106	2050019	23.24	PPBV		100
81)	o-XYLENE	14.677	106	1016013	12.30	PPBV		99
82)	STYRENE	14.567	104	1531560	11.88	PPBV		100
83)	NONANE	14.934	43	1246325	11.11	PPBV		100
84)	BROMOFORM	14.249	173	1671641	12.32	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1743965	12.14	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1202955	10.42	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2910298	11.51	PPBV		100
89)	BROMOBENZENE	15.374	77	1429493	10.87	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	779180	11.13	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	807953	11.92	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2990249	12.93	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2480601	11.54	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.194	118	1177774	11.12	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	570968	13.08	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2612198	13.02	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1916772	12.50	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2335931	12.63	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1889997	11.46	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	670798	12.13	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2623929	12.36	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	794033	12.67	PPBV		100
103)	o-DICHLOROBENZENE	16.977	146	1807576	11.75	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	753590	12.27	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1153176	10.90	PPBV		100
106)	HEXACHLOROBUTADIENE	18.966	225	1732361	12.11	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1717833	12.05	PPBV		99
108)	NAPHTHALENE	18.660	128	3898122	12.54	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	3177953	10.55	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

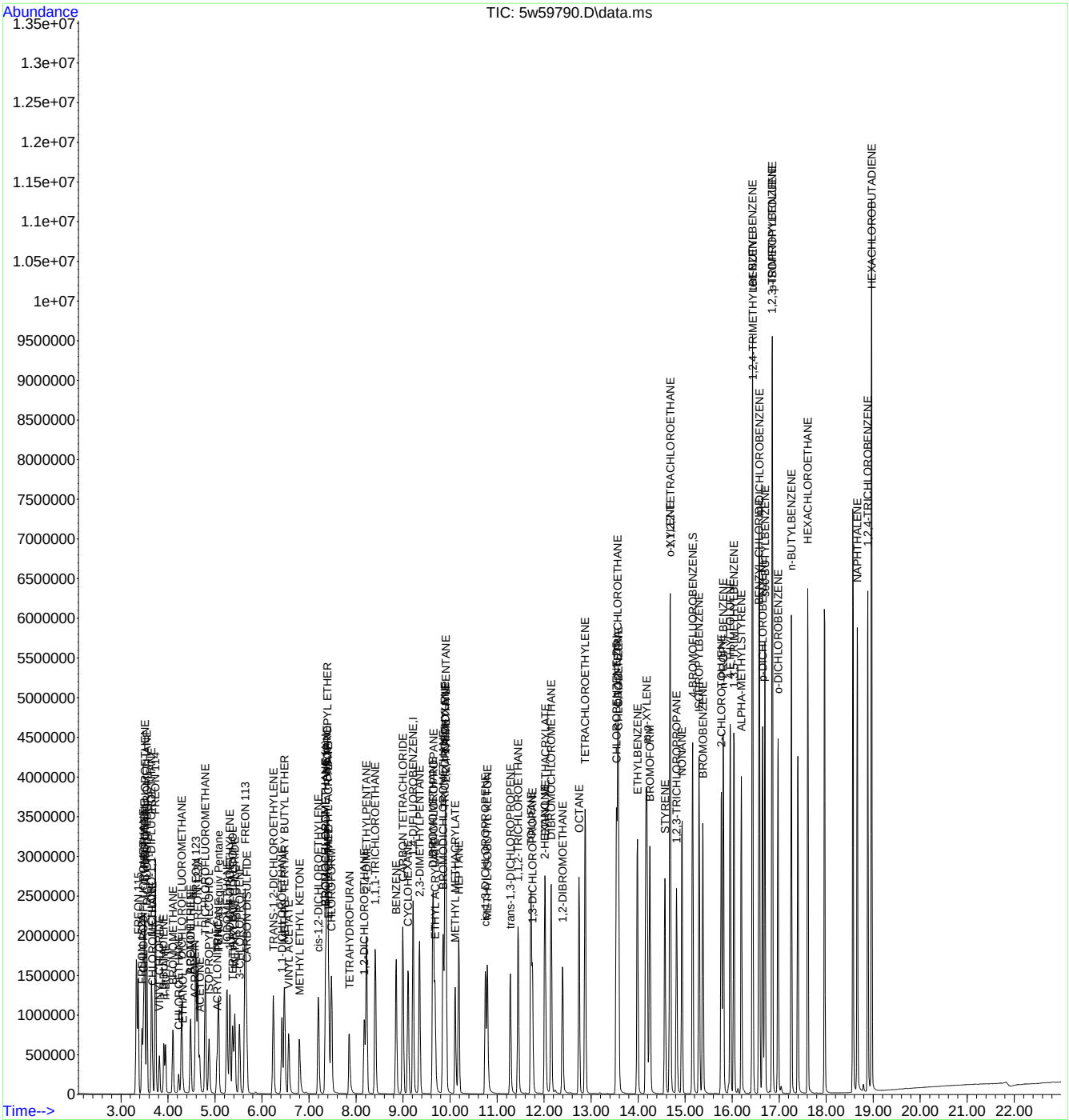
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

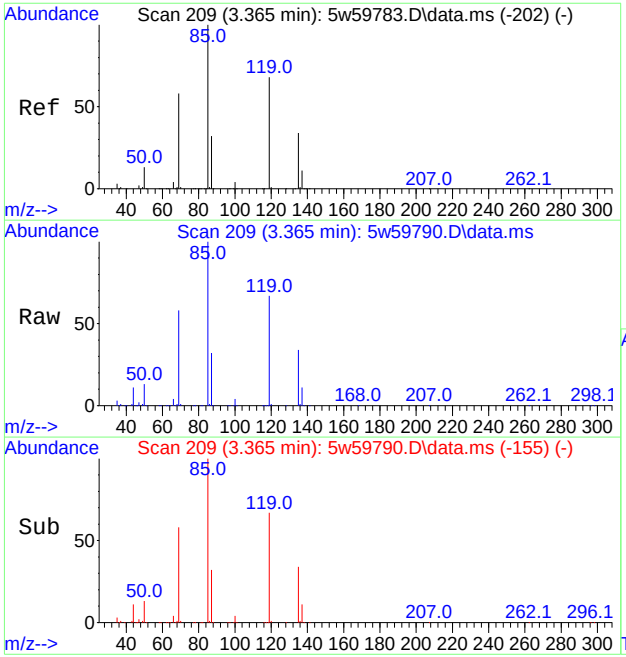
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

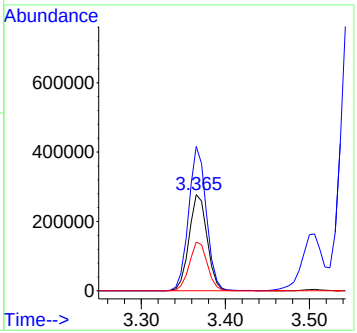


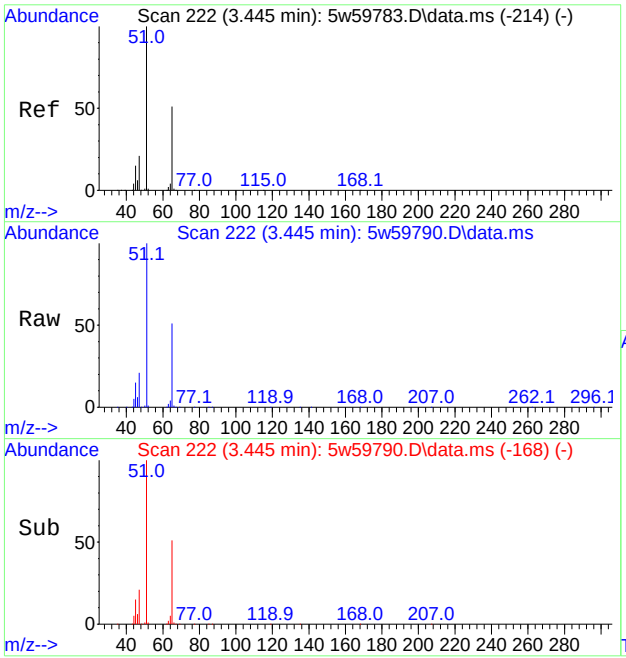


#2
FREON 115
Concen: 12.16 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:119 Resp: 415215

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.4	20.6	80.6

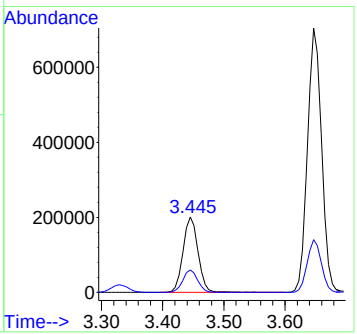


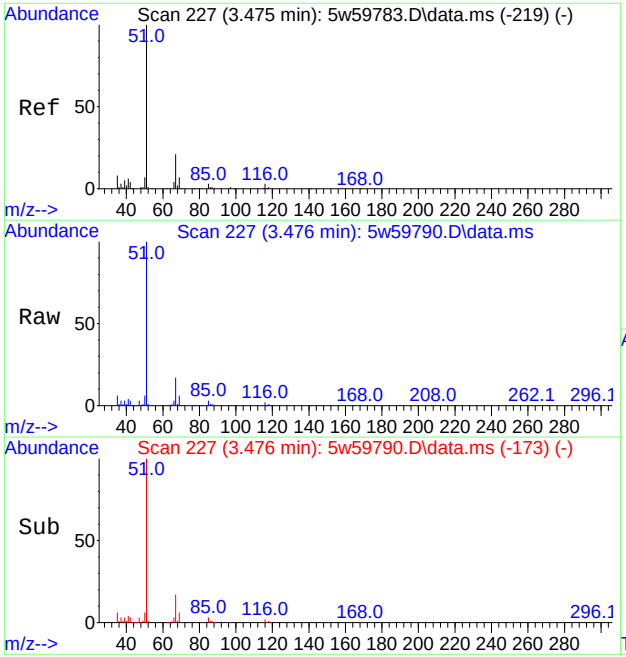


#3
FREON 152A
Concen: 9.28 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 342794

Ion	Ratio	Lower	Upper
65	100		
45	29.5	0.0	60.0

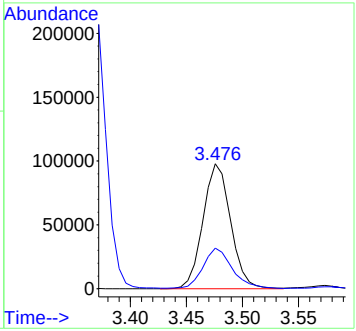


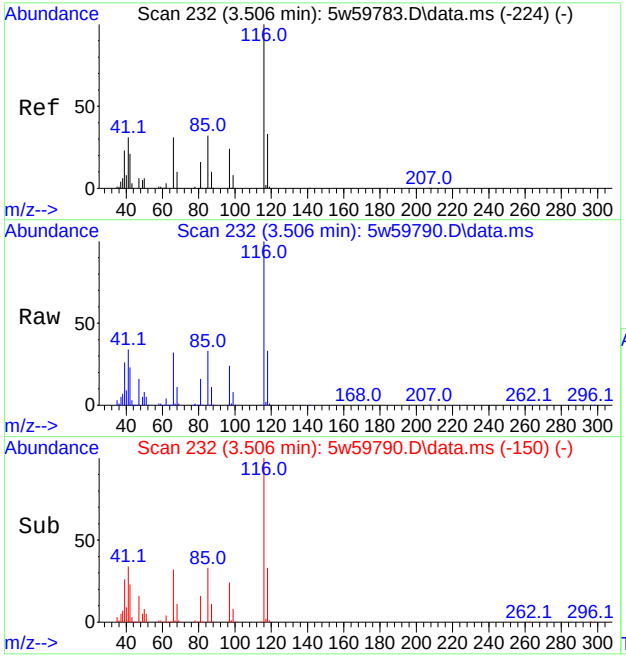


#4
CHLORODIFLUOROMETHANE
Concen: 10.89 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 168320

Ion	Ratio	Lower	Upper
67	100		
69	32.5	1.0	61.0

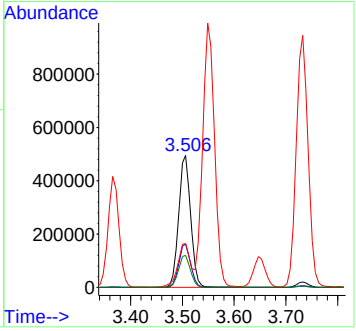


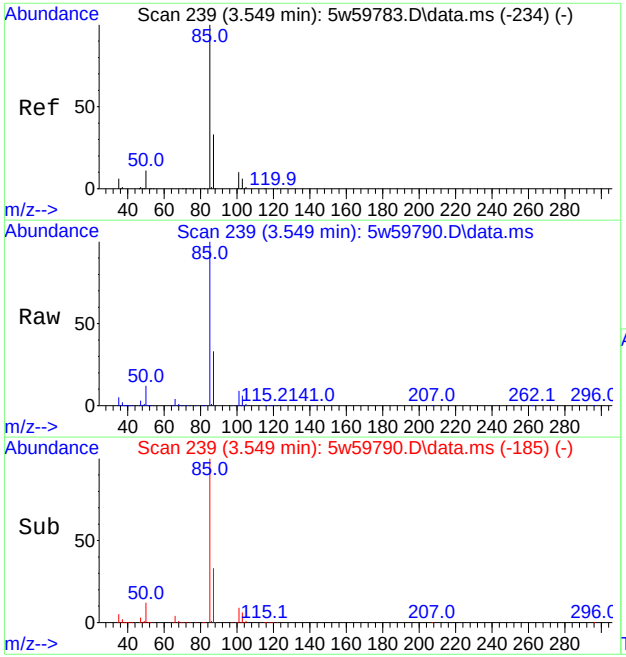


#5
CHLOROTRIFLUOROETHENE
Concen: 10.34 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:116 Resp: 800294

Ion	Ratio	Lower	Upper
116	100		
118	32.6	22.9	42.5
85	37.1	23.7	44.1
97	24.1	17.0	31.6

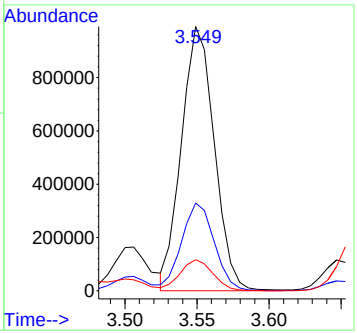


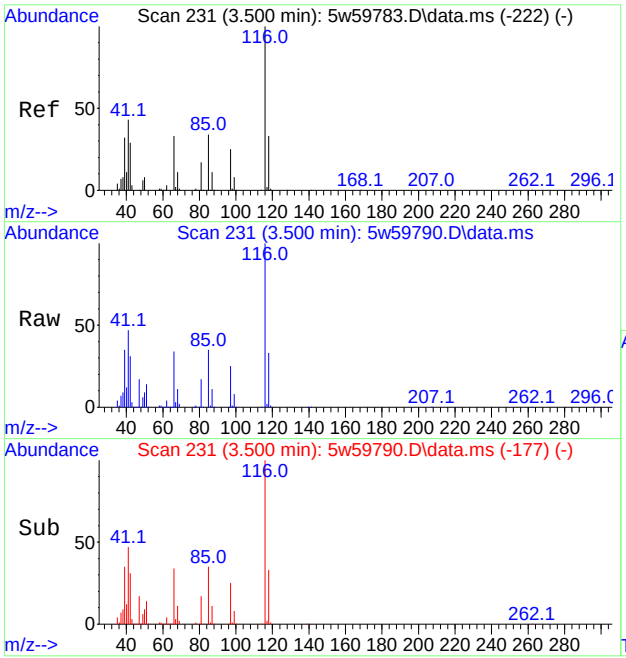


#6
DICHLORODIFLUOROMETHANE
Concen: 11.07 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1577776

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

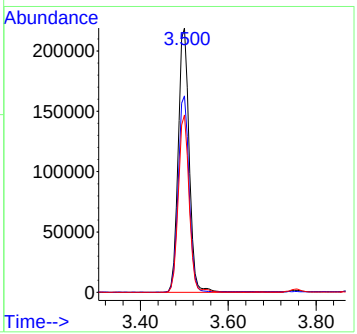


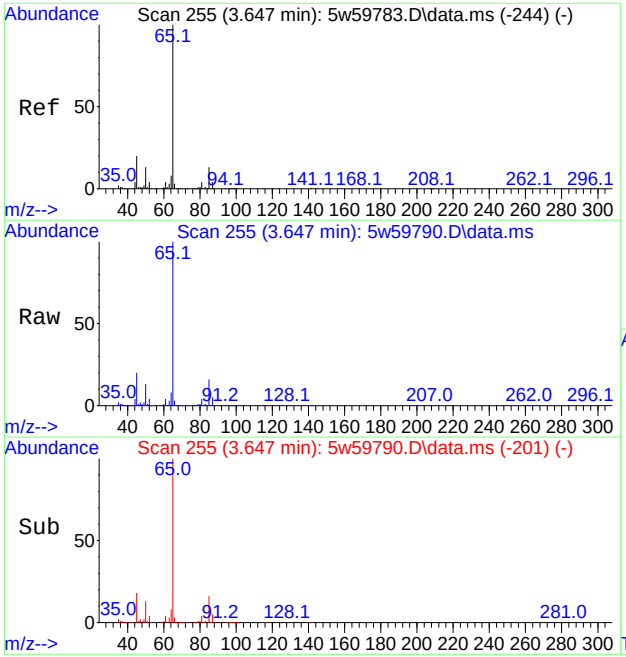


#7
PROPYLENE
Concen: 9.97 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 381437

Ion	Ratio	Lower	Upper
41	100		
39	75.5	45.1	105.1
42	66.3	36.3	96.3

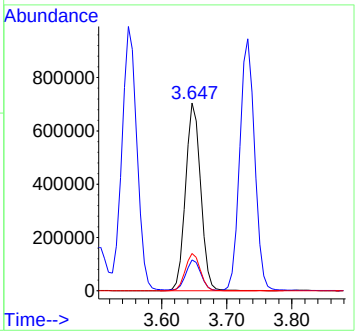


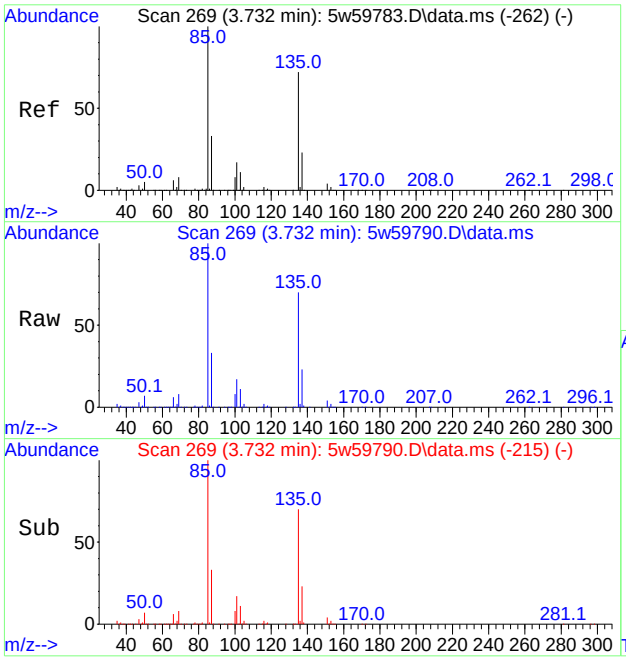


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 9.85 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 1137041

Ion	Ratio	Lower	Upper
65	100		
85	16.5	11.5	21.3
45	20.0	14.0	26.0

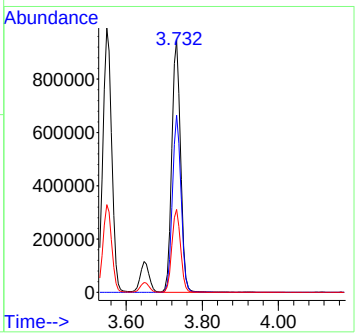


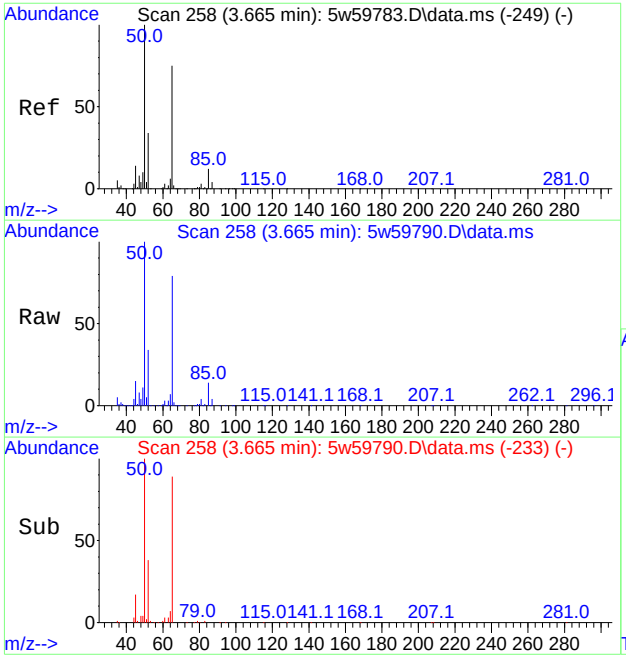


#9
FREON 114
Concen: 11.57 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1508684

Ion	Ratio	Lower	Upper
85	100		
135	69.6	40.5	100.5
87	32.8	3.0	63.0

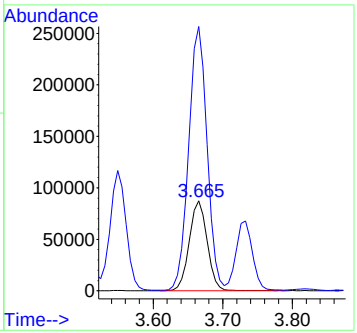


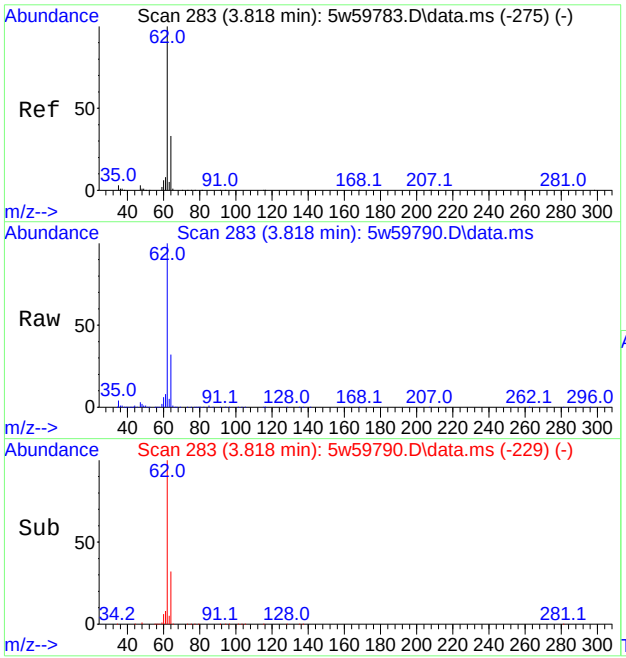


#10
CHLOROMETHANE
Concen: 10.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 156659

Ion	Ratio	Lower	Upper
52	100		
50	293.1	267.9	327.9

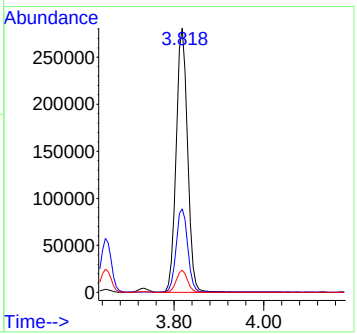


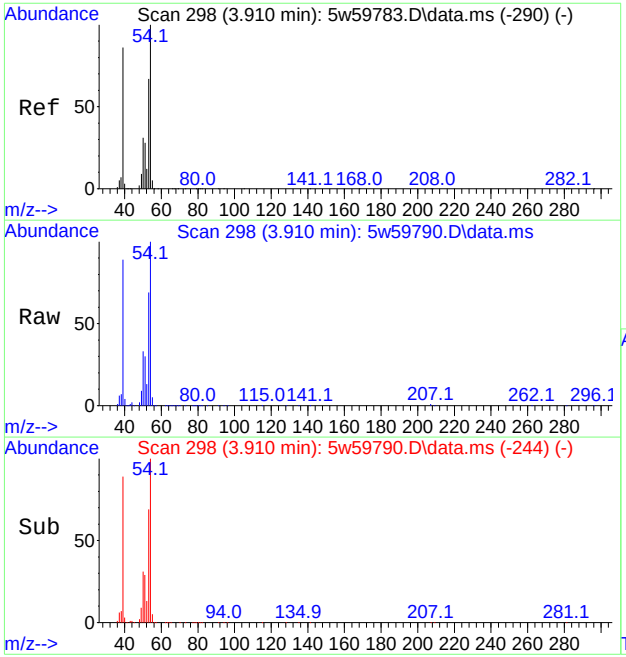


#11
VINYL CHLORIDE
Concen: 10.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 498882

Ion	Ratio	Lower	Upper
62	100		
64	32.9	3.6	63.6
61	8.2	0.0	38.2

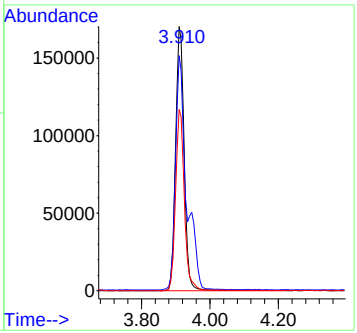


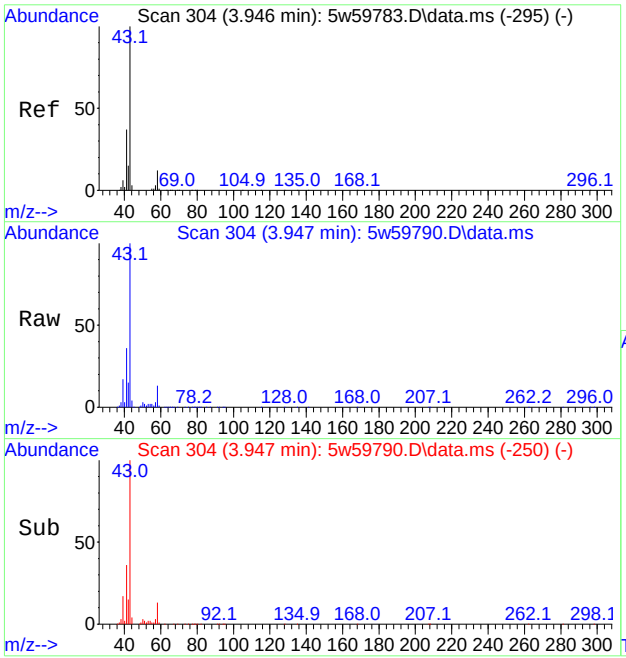


#12
1,3-BUTADIENE
Concen: 10.32 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 54 Resp: 299983

Ion	Ratio	Lower	Upper
54	100		
39	113.6	82.0	142.0
53	71.1	40.2	100.2

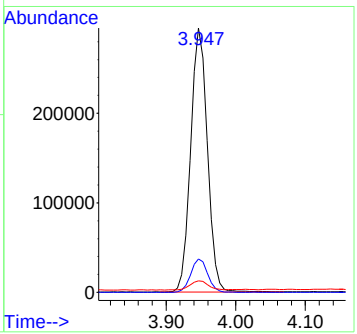


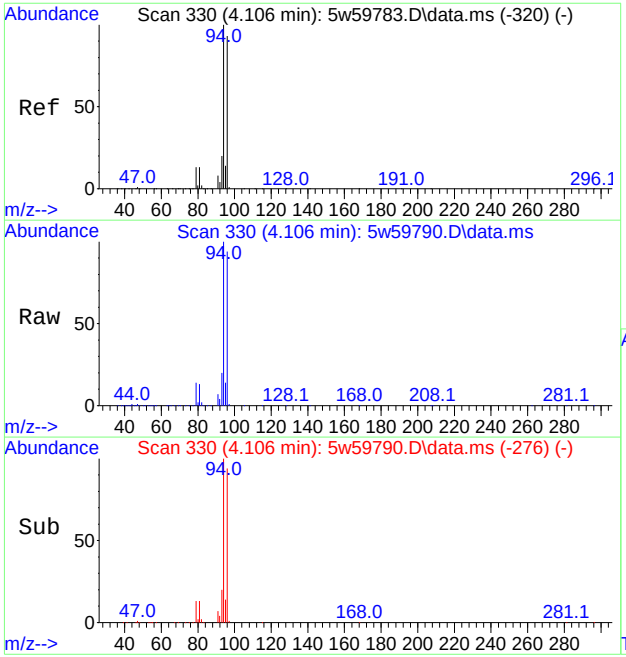


#13
n-BUTANE
Concen: 10.35 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 491620

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	3.8	0.0	34.9

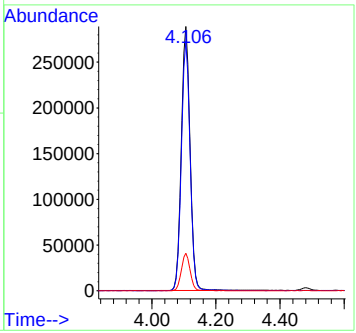


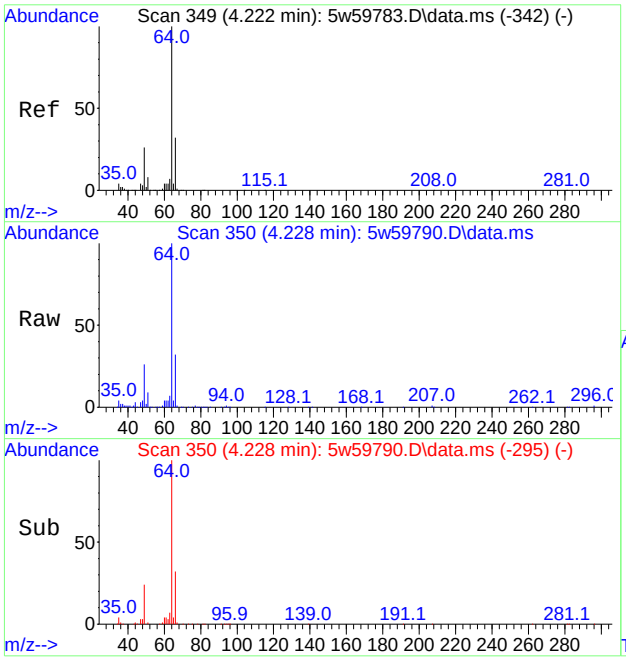


#14
BROMOMETHANE
Concen: 10.65 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 94 Resp: 546593

Ion	Ratio	Lower	Upper
94	100		
96	95.2	65.3	125.3
95	14.3	0.0	44.1

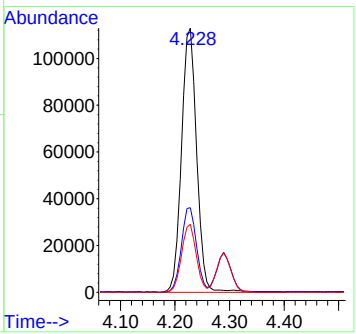


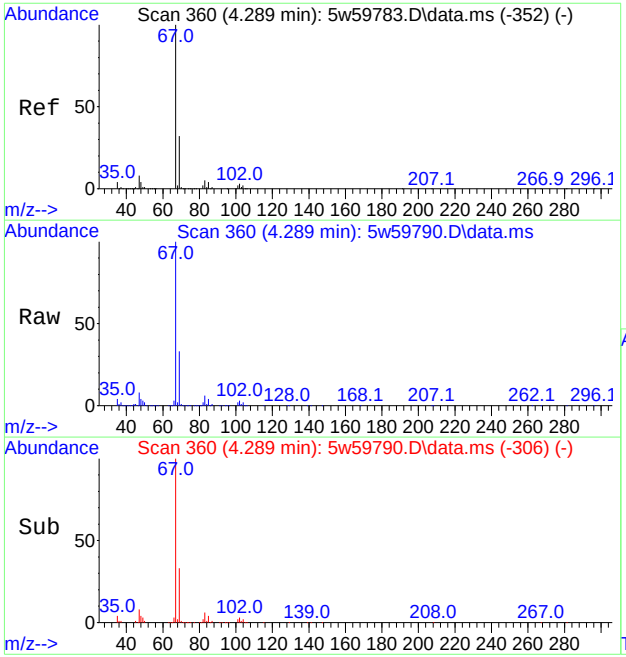


#15
CHLOROETHANE
Concen: 9.25 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 64 Resp: 217760

Ion	Ratio	Lower	Upper
64	100		
66	32.0	3.1	63.1
49	25.0	0.0	55.3

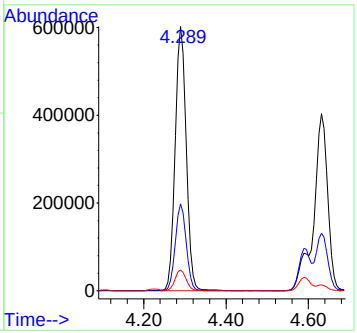


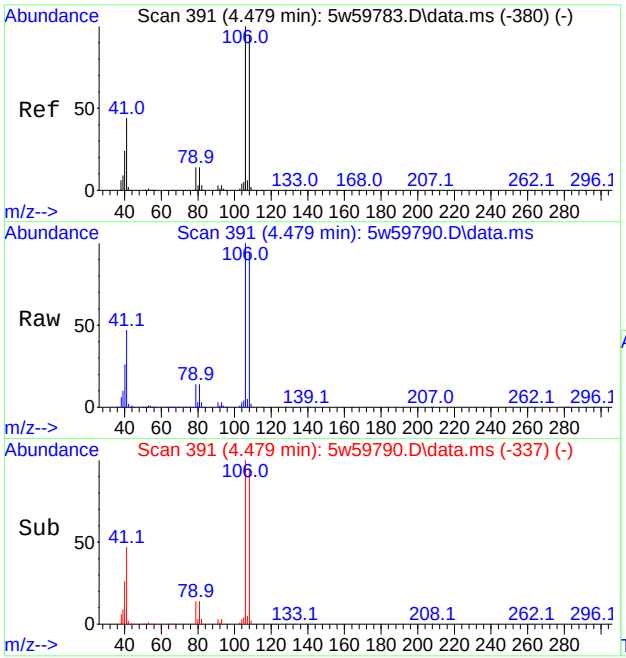


#16
DICHLOROFLUOROMETHANE
Concen: 10.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 1122027

Ion	Ratio	Lower	Upper
67	100		
69	32.6	22.7	42.3
47	8.0	5.6	10.4

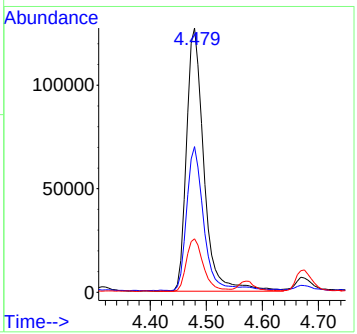


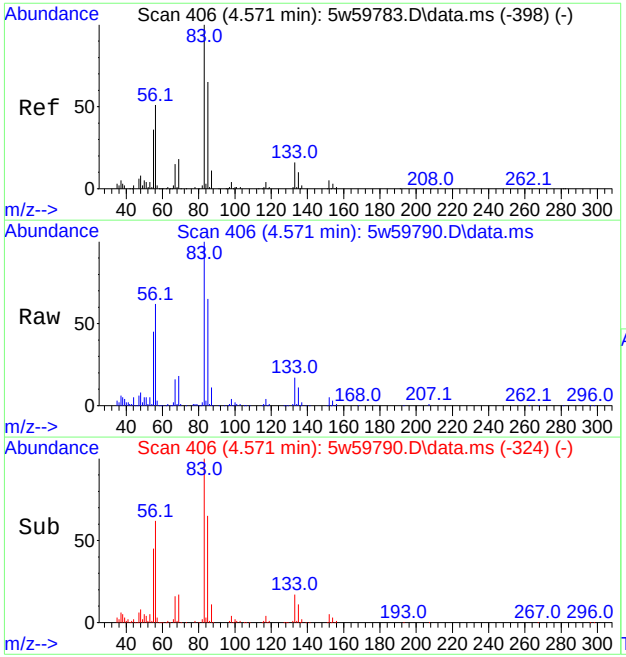


#17
ACETONITRILE
Concen: 10.09 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 273749

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.5	13.4	24.8

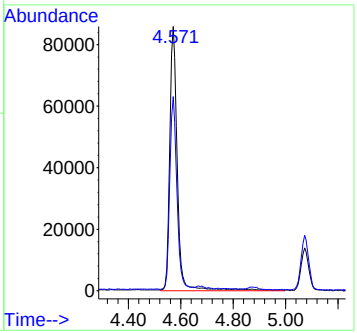


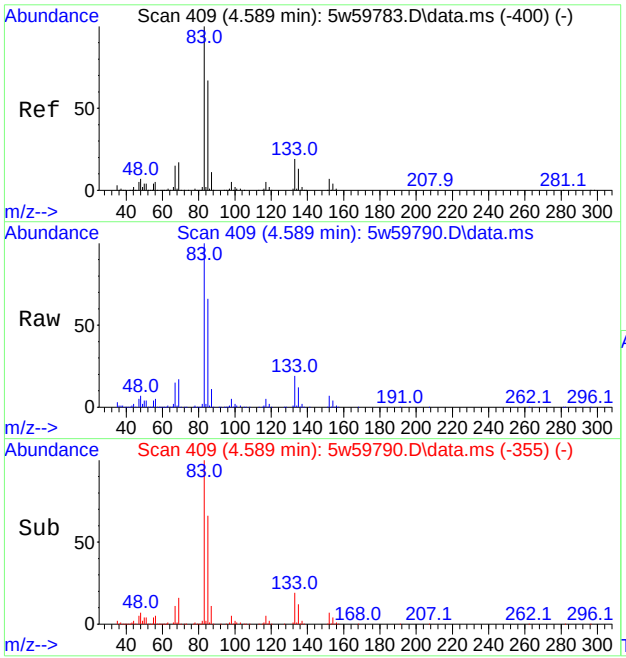


#18
ACROLEIN
Concen: 11.29 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 56 Resp: 174000

Ion	Ratio	Lower	Upper
56	100		
55	68.2	46.6	86.6

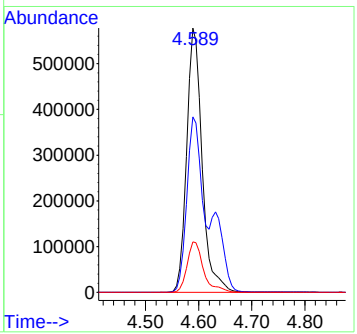


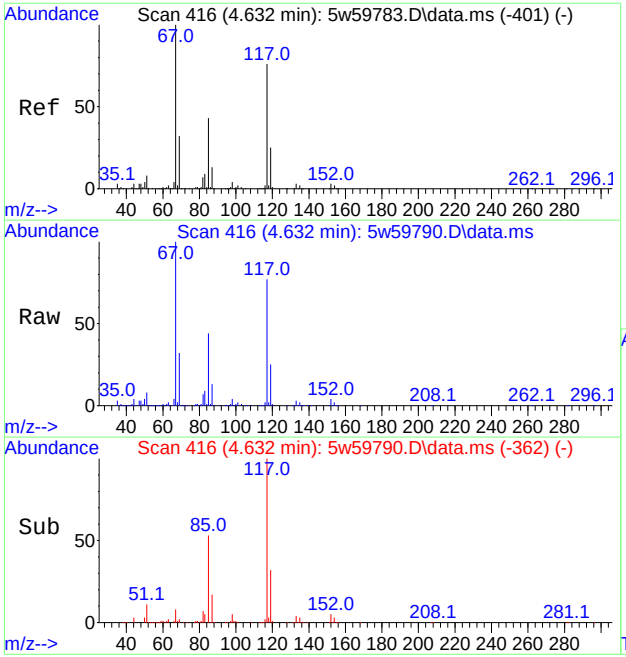


#19
FREON 123
Concen: 9.88 PPBV
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1172331

Ion	Ratio	Lower	Upper
83	100		
85	92.1	34.0	94.0
133	20.4	0.0	50.7

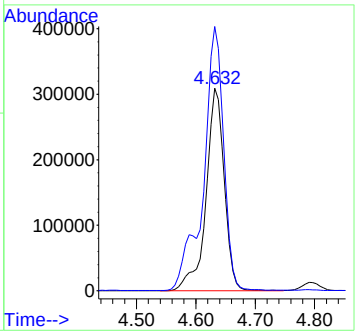


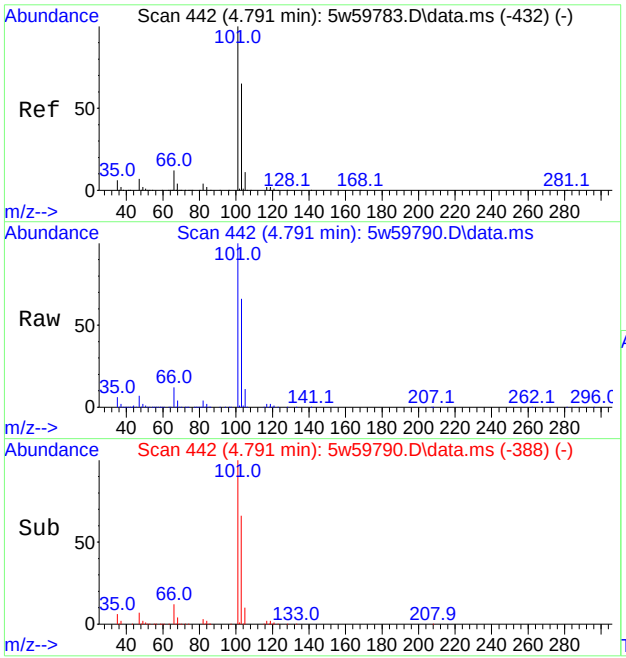


#20
FREON 123A
Concen: 9.67 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 658691

Ion	Ratio	Lower	Upper
117	100		
67	145.1	114.6	174.6

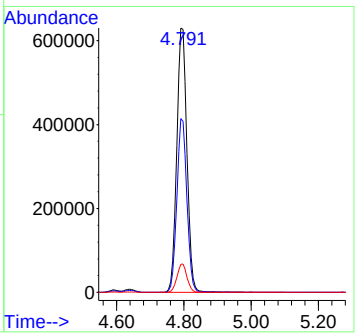


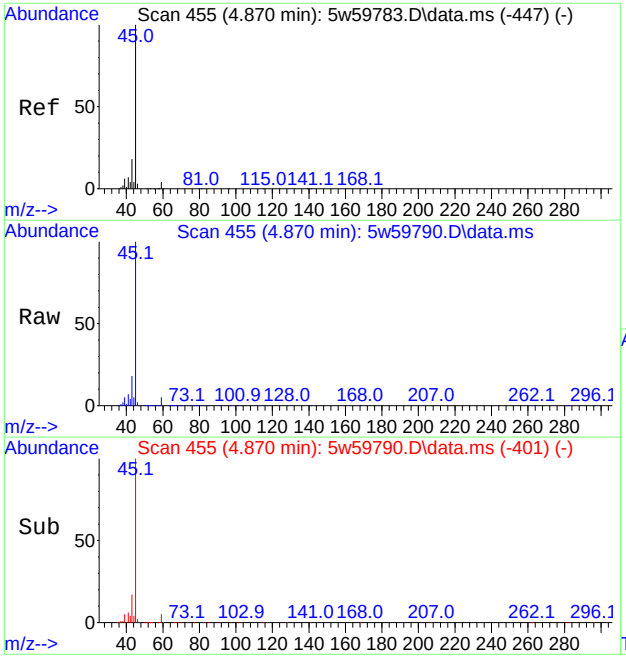


#21
TRICHLOROFLUOROMETHANE
Concen: 10.86 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:101 Resp: 1322128

Ion	Ratio	Lower	Upper
101	100		
103	65.1	35.0	95.0
105	10.7	0.0	40.7

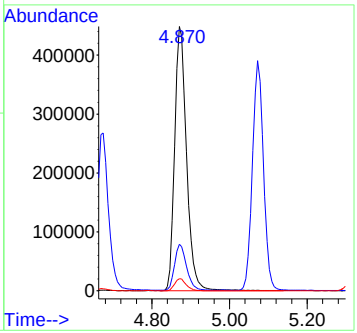


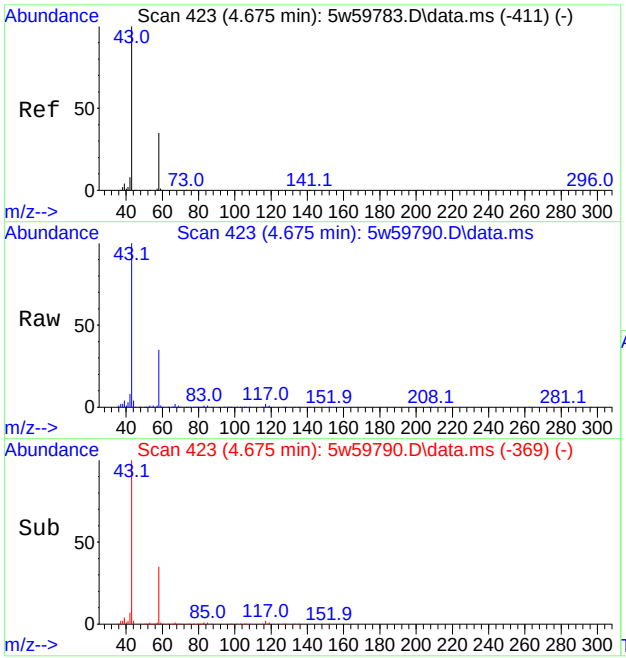


#22
ISOPROPYL ALCOHOL
Concen: 9.81 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 957946

Ion	Ratio	Lower	Upper
45	100		
43	17.6	0.0	47.8
59	4.6	0.0	34.1

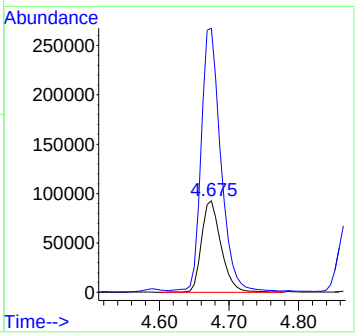


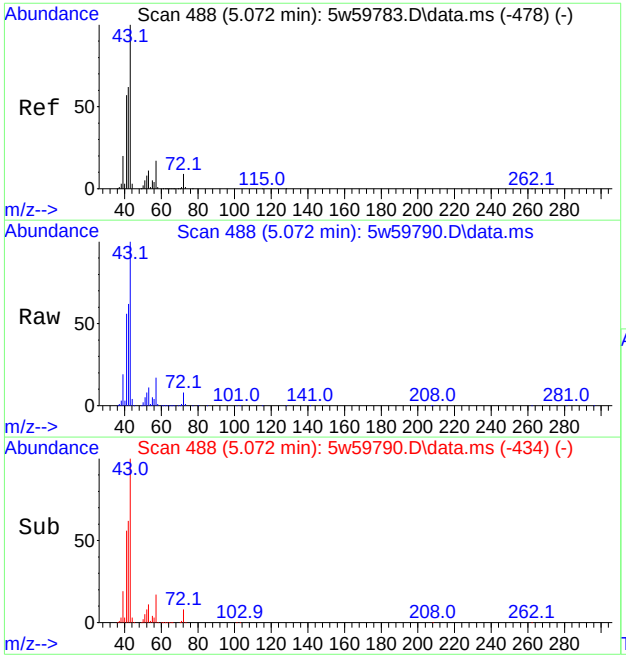


#23
ACETONE
Concen: 9.32 PPBV
RT: 4.675 min Scan# 423
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 182115

Ion	Ratio	Lower	Upper
58	100		
43	287.5	252.3	312.3

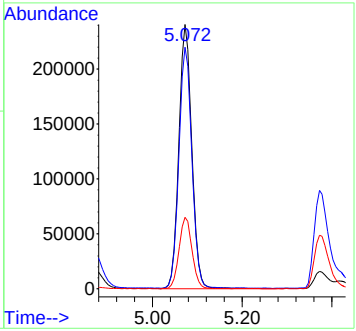


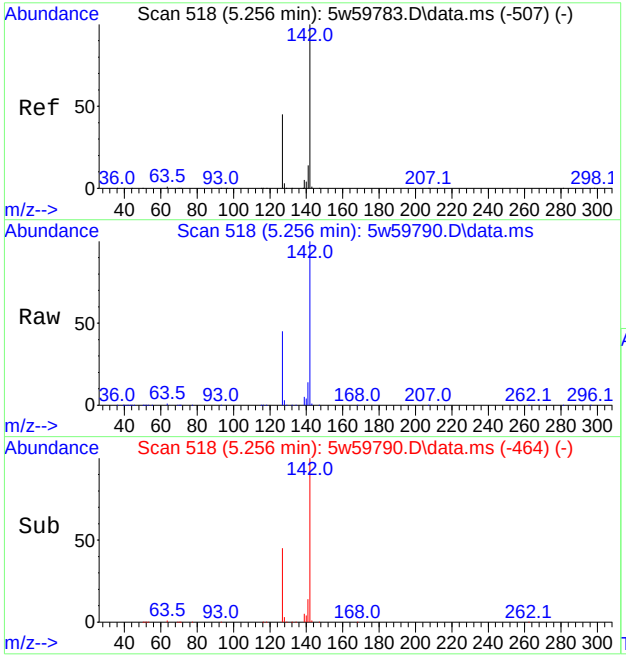


#24
PENTANE
Concen: 9.56 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 42 Resp: 485024

Ion	Ratio	Lower	Upper
42	100		
41	91.0	62.3	122.3
57	27.3	0.0	57.7

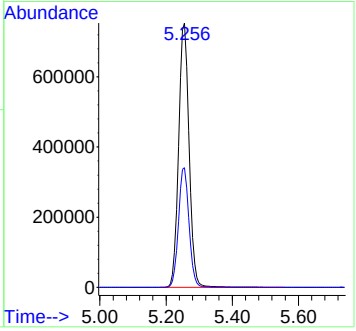


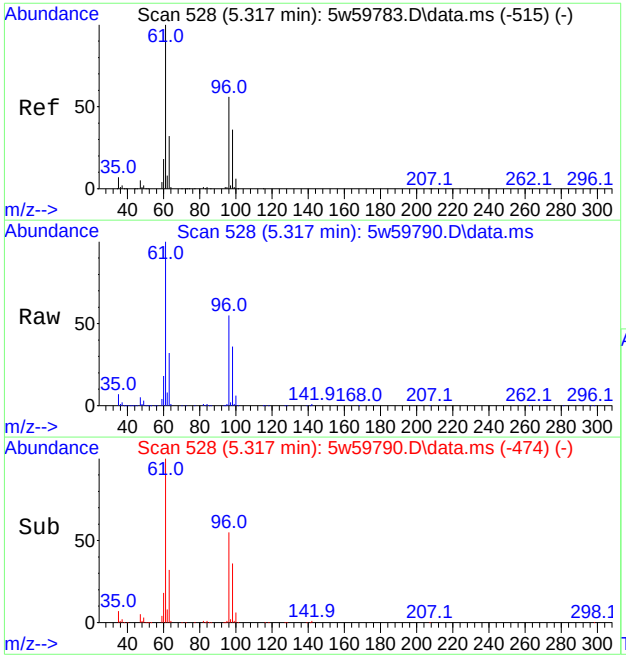


#25
IODOMETHANE
Concen: 10.92 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:142 Resp: 1656951

Ion	Ratio	Lower	Upper
142	100		
127	45.8	16.0	76.0

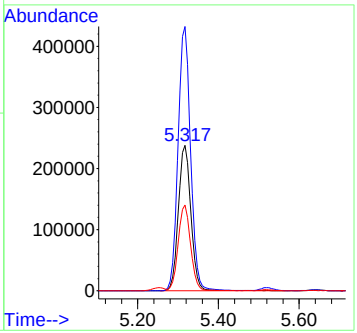


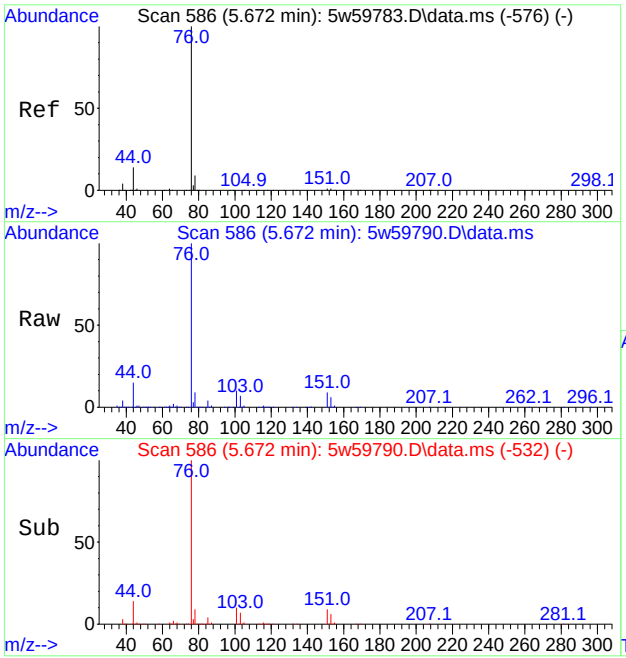


#26
1,1-DICHLOROETHYLENE
Concen: 9.62 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 514235

Ion	Ratio	Lower	Upper
96	100		
61	180.7	148.5	208.5
63	58.0	27.4	87.4

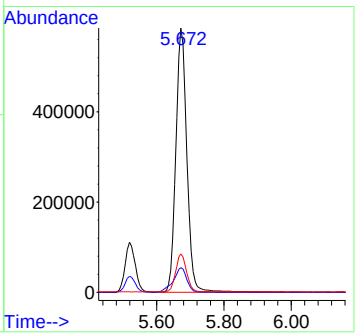


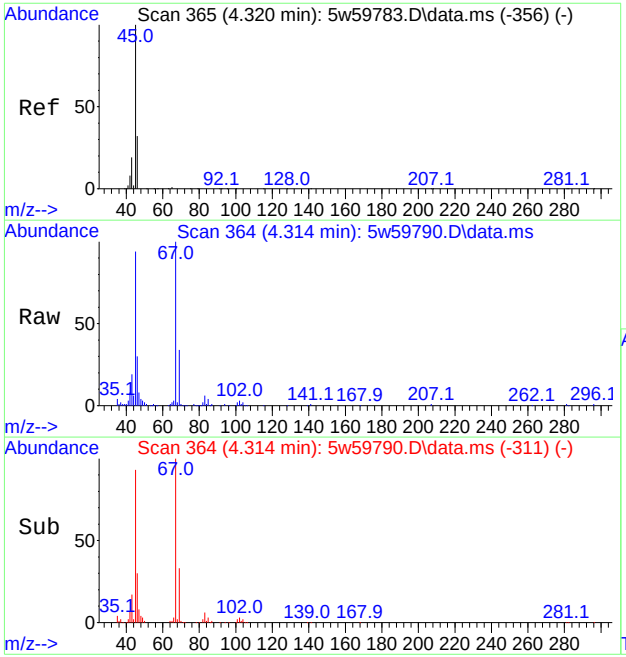


#27
CARBON DISULFIDE
Concen: 9.53 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 1333722

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	14.3	0.0	44.6

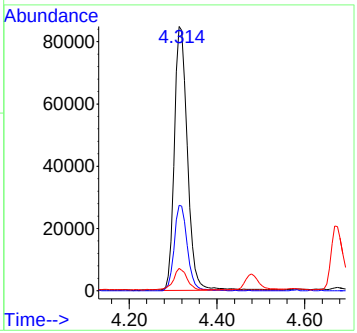


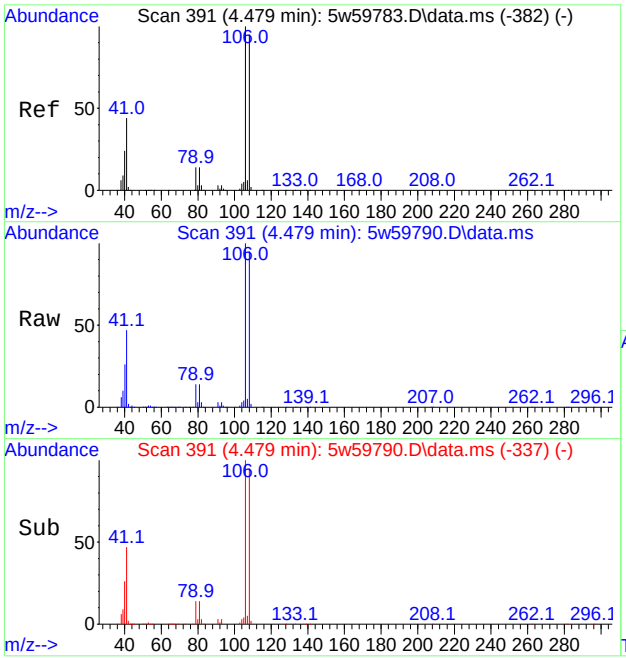


#28
ETHANOL
Concen: 10.75 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 175873

Ion	Ratio	Lower	Upper
45	100		
46	32.5	2.0	62.0
42	8.3	0.0	38.5

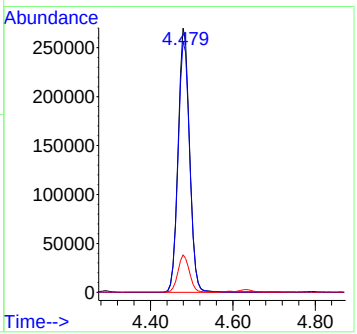


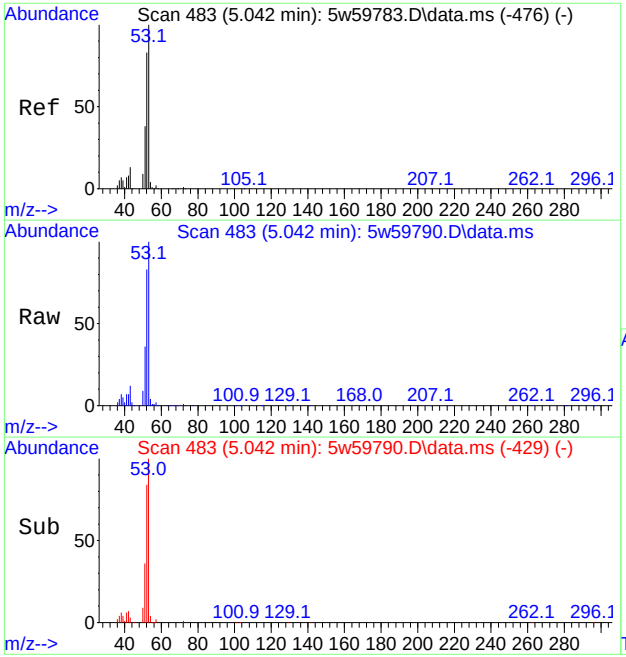


#29
BROMOETHENE
Concen: 10.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 523753

Ion	Ratio	Lower	Upper
106	100		
108	95.9	65.6	125.6
81	14.0	0.0	43.9

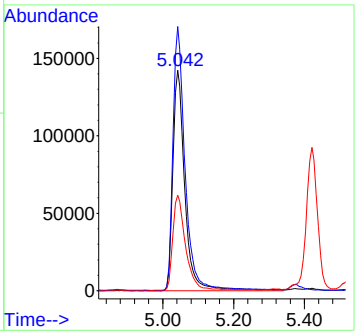


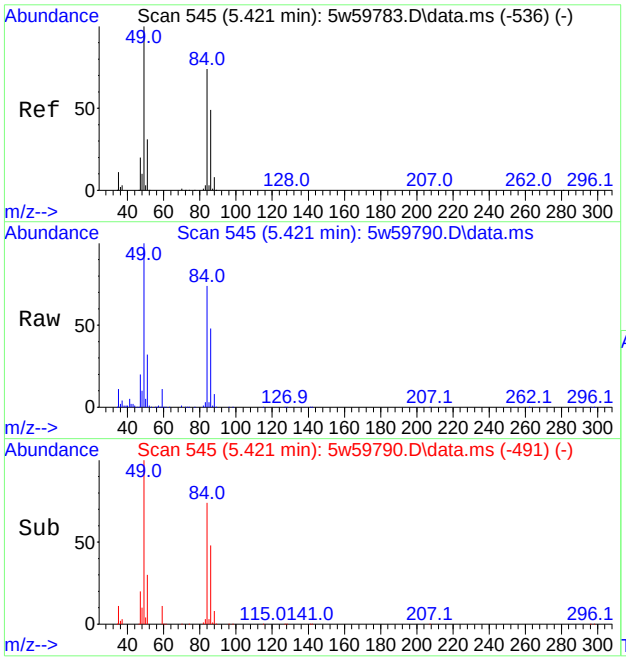


#30
ACRYLONITRILE
Concen: 10.15 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 335497

Ion	Ratio	Lower	Upper
52	100		
53	122.5	85.8	159.4
51	46.4	32.3	60.1

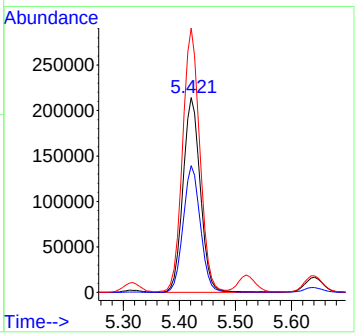


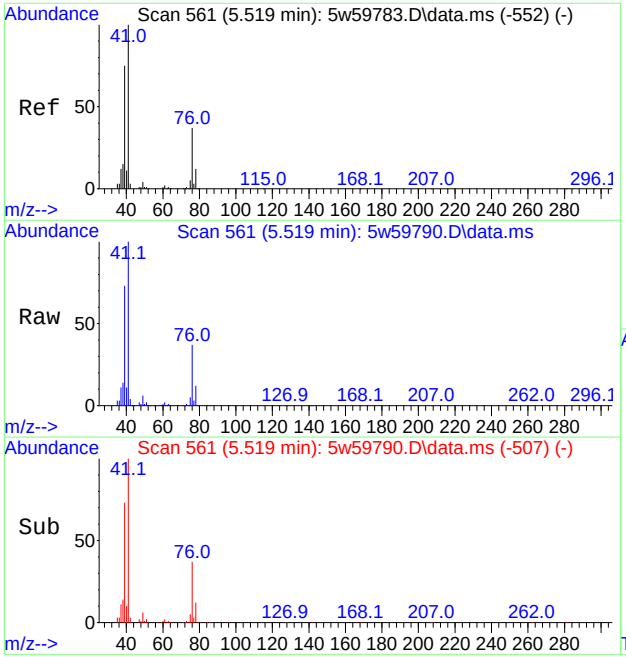


#31
METHYLENE CHLORIDE
Concen: 9.22 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 460743

Ion	Ratio	Lower	Upper
84	100		
86	64.8	35.2	95.2
49	134.8	105.3	165.3

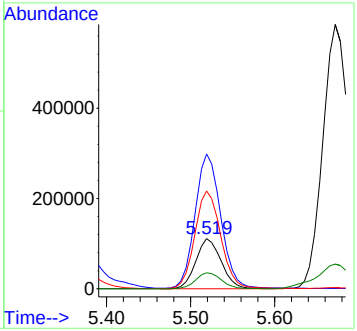


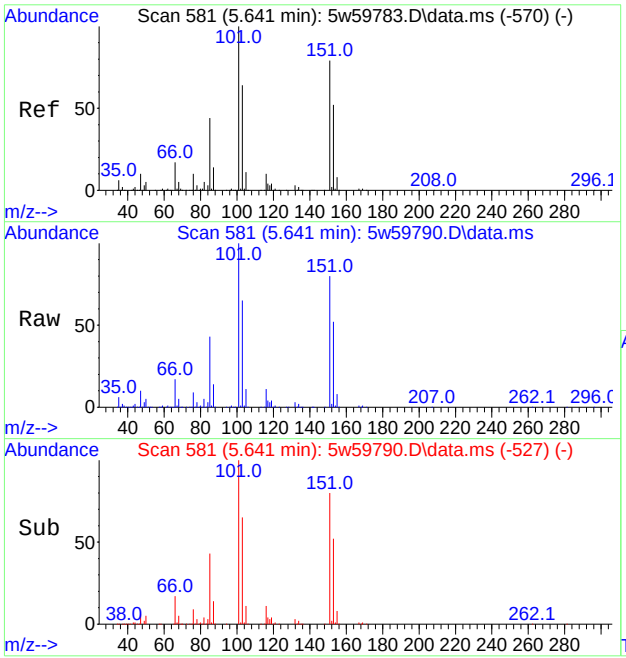


#32
3-CHLOROPROPENE
Concen: 9.77 PPBV
RT: 5.519 min Scan# 561
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 235062

Ion	Ratio	Lower	Upper
76	100		
41	271.7	240.8	300.8
39	197.9	173.6	233.6
78	32.5	2.8	62.8

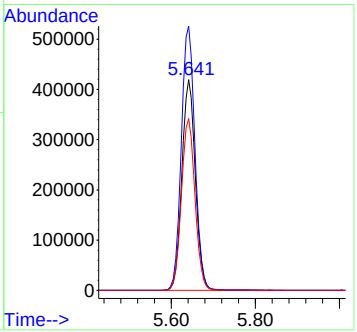


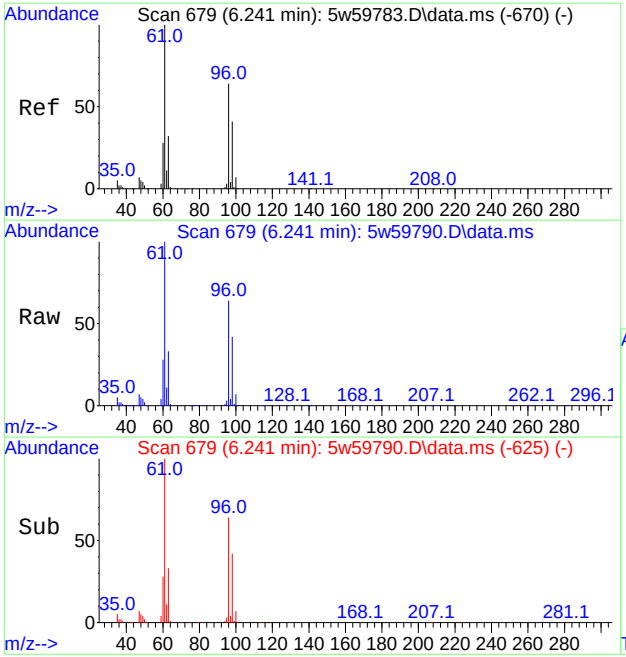


#33
FREON 113
Concen: 10.53 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:151 Resp: 936508

Ion	Ratio	Lower	Upper
151	100		
101	126.4	97.5	157.5
103	82.0	52.5	112.5

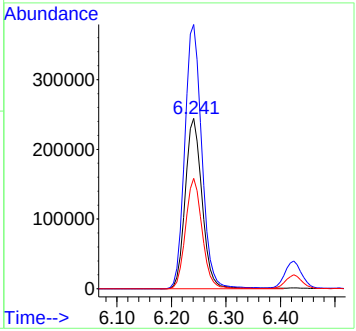


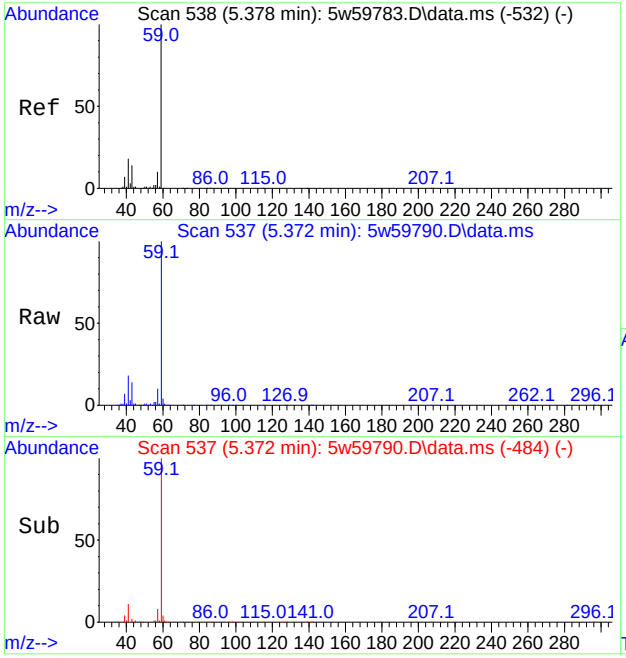


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 9.34 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 523452

Ion	Ratio	Lower	Upper
96	100		
61	156.5	126.4	186.4
98	63.9	34.1	94.1

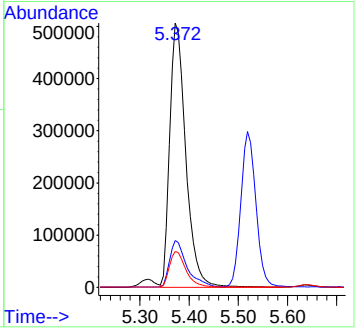


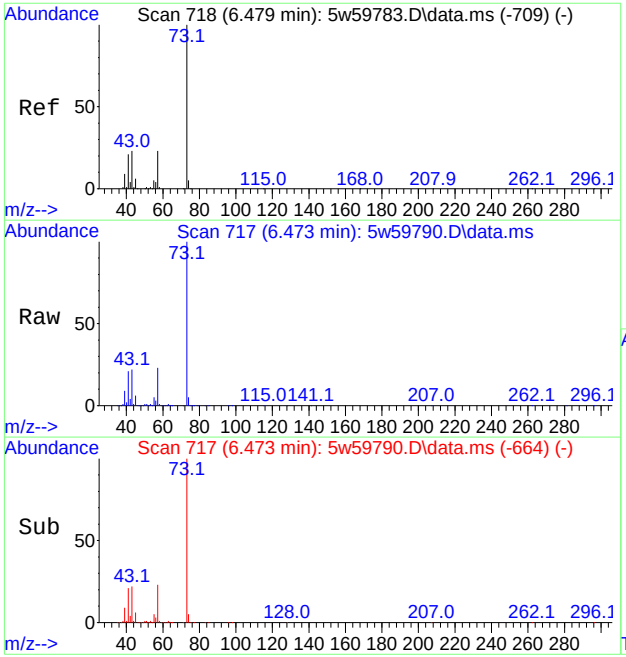


#35
TERTIARY BUTYL ALCOHOL
Concen: 11.52 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 1150749

Ion	Ratio	Lower	Upper
59	100		
41	19.0	0.0	49.3
43	13.9	0.0	44.1

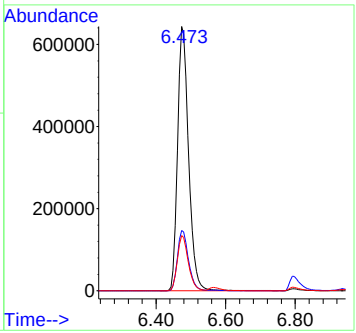


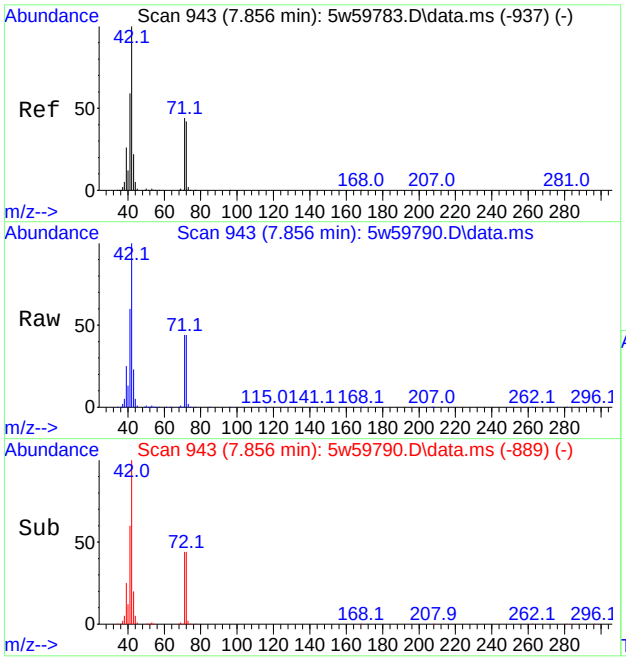


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.10 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 73 Resp: 1424107

Ion	Ratio	Lower	Upper
73	100		
57	23.2	0.0	53.1
41	20.7	0.0	50.6

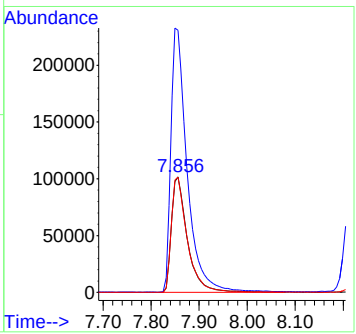


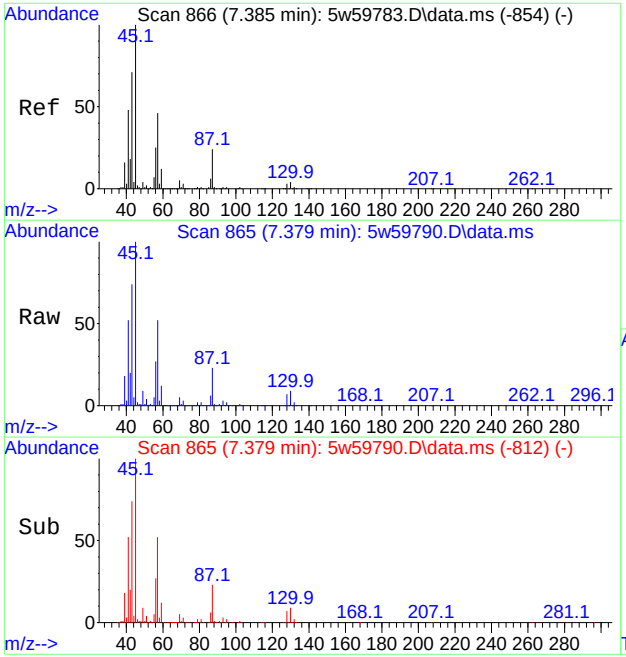


#37
TETRAHYDROFURAN
Concen: 12.20 PPBV
RT: 7.856 min Scan# 943
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 236078

Ion	Ratio	Lower	Upper
72	100		
42	233.9	202.4	262.4
71	99.8	71.1	131.1

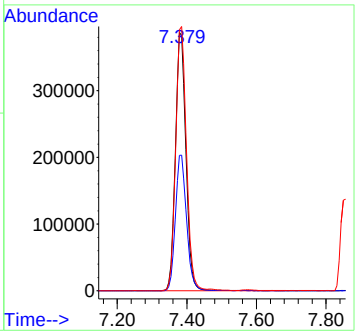


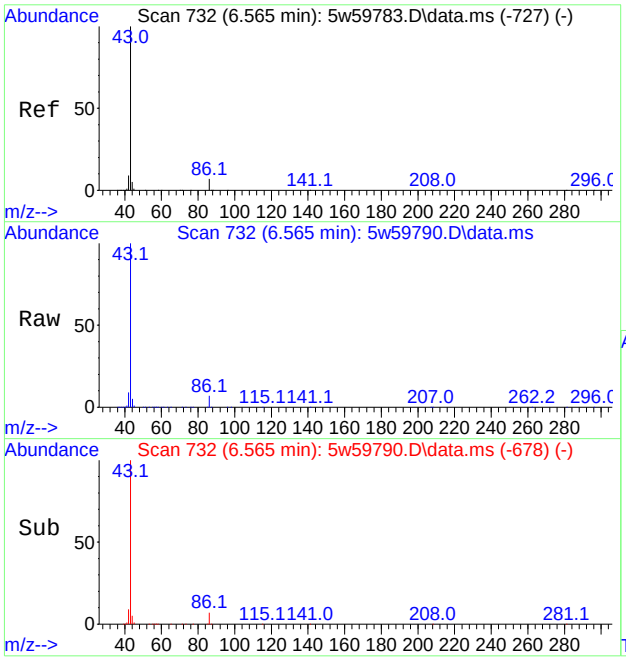


#38
HEXANE
Concen: 10.24 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 814752

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	104.6	74.7	134.7

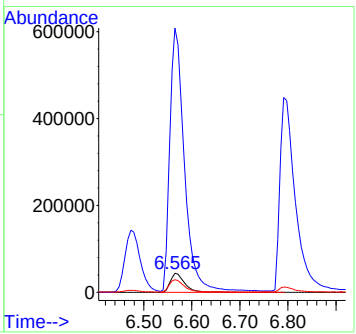


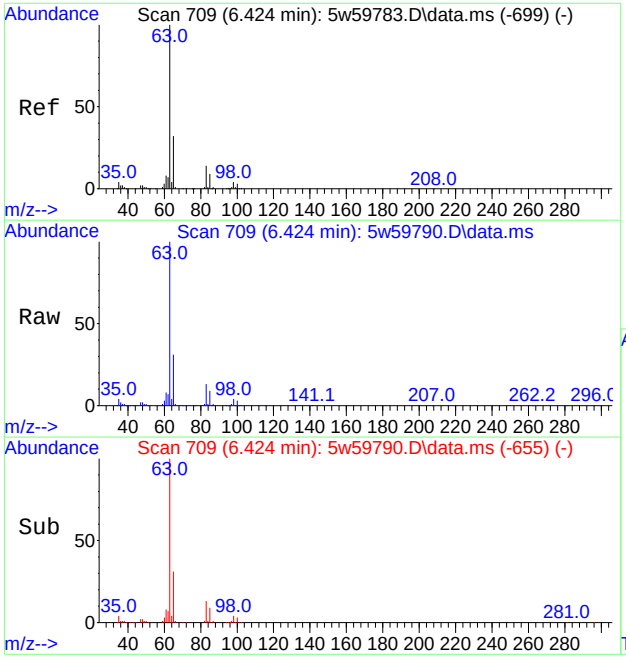


#39
VINYL ACETATE
Concen: 11.55 PPBV
RT: 6.565 min Scan# 732
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 86 Resp: 92915

Ion	Ratio	Lower	Upper
86	100		
43	1372.6	1379.7	1439.7#
44	66.6	36.9	96.9

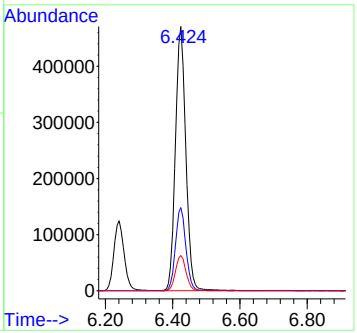


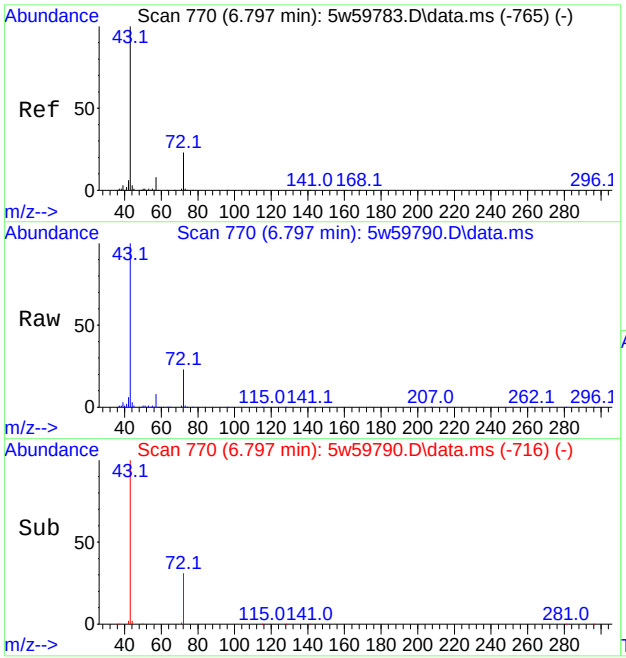


#40
1,1-DICHLOROETHANE
Concen: 9.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 1012856

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.7	61.7
83	13.5	0.0	43.5

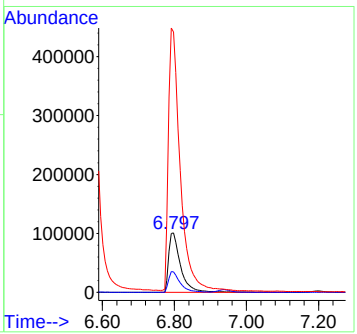


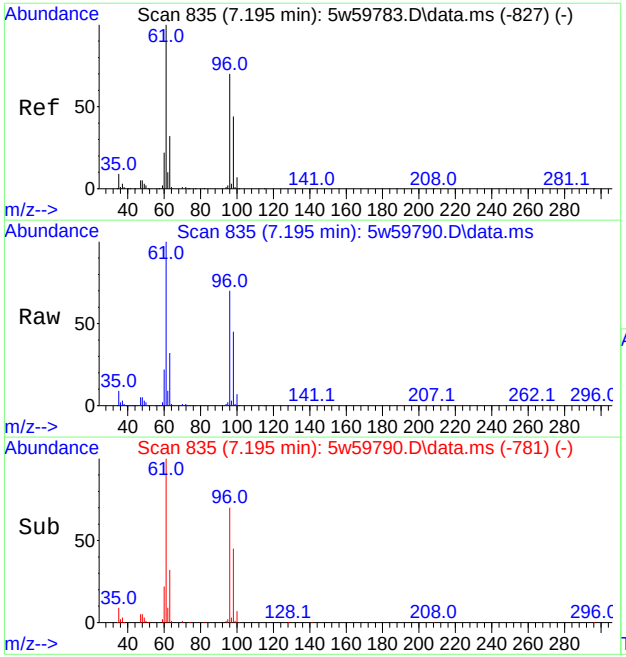


#41
METHYL ETHYL KETONE
Concen: 12.04 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 231727

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	438.5	415.9	475.9

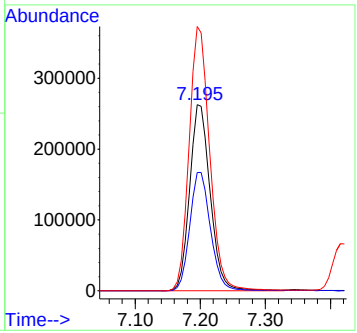


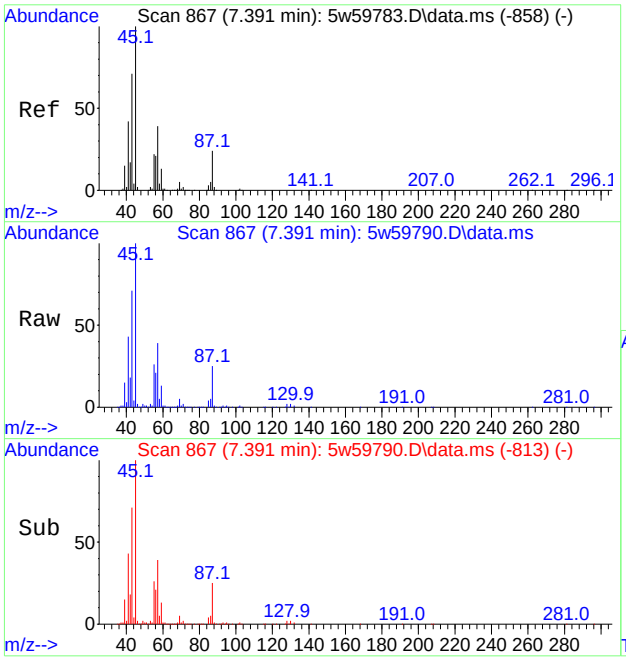


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.43 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 576053

Ion	Ratio	Lower	Upper
96	100		
98	64.4	34.0	94.0
61	142.6	111.5	171.5

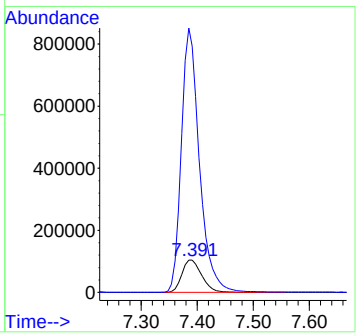


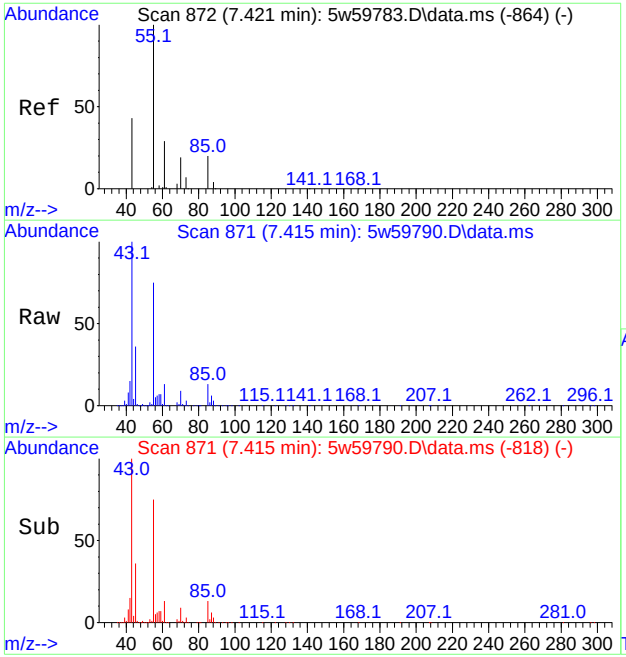


#43
DIISOPROPYL ETHER
Concen: 12.23 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 255743

Ion	Ratio	Lower	Upper
59	100		
45	748.7	720.9	780.9

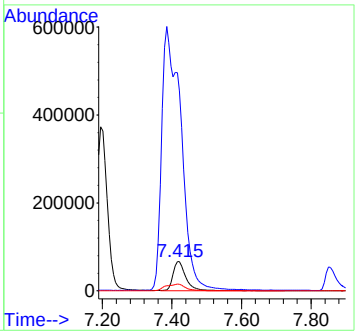


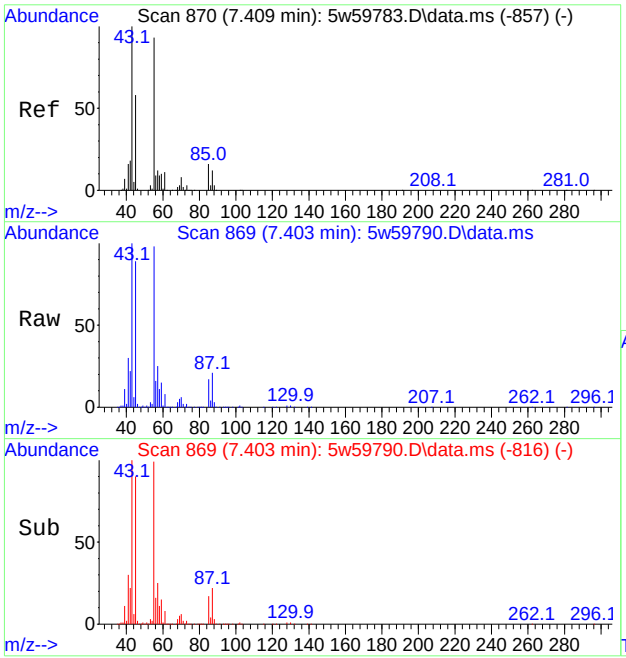


#44
ETHYL ACETATE
Concen: 11.56 PPBV
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 61 Resp: 170036

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	35.7	4.5	64.5

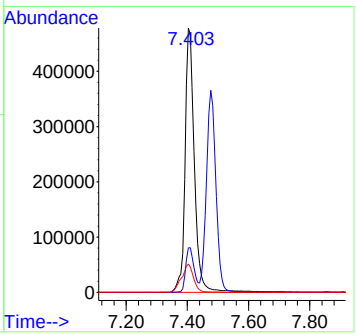


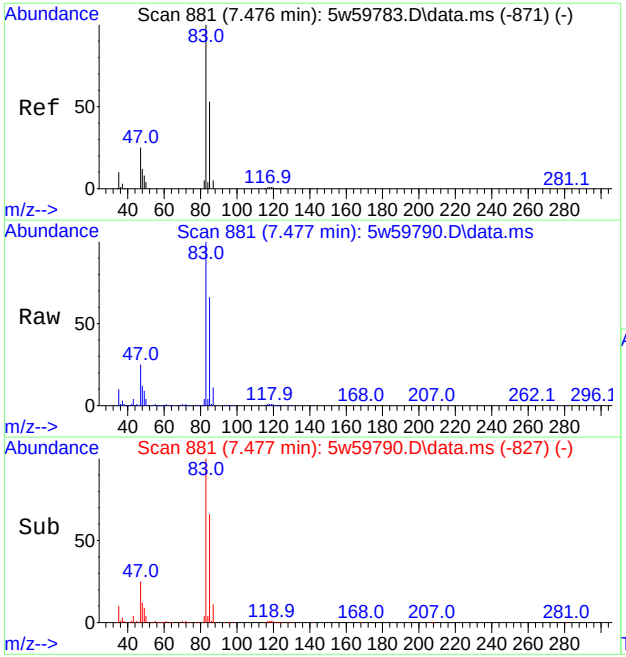


#45
METHYL ACRYLATE
Concen: 12.95 PPBV
RT: 7.403 min Scan# 869
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1019941

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.7	9.4	17.6

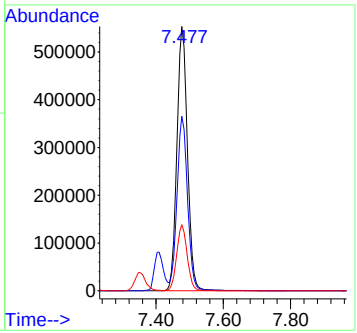


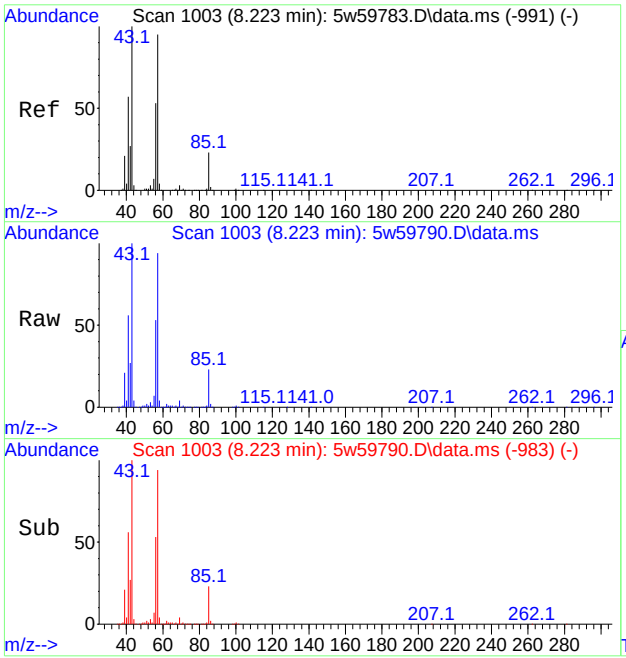


#46
CHLOROFORM
Concen: 10.89 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1206541

Ion	Ratio	Lower	Upper
83	100		
85	65.8	35.6	95.6
47	24.9	0.0	55.2

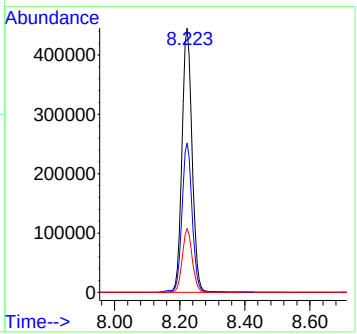


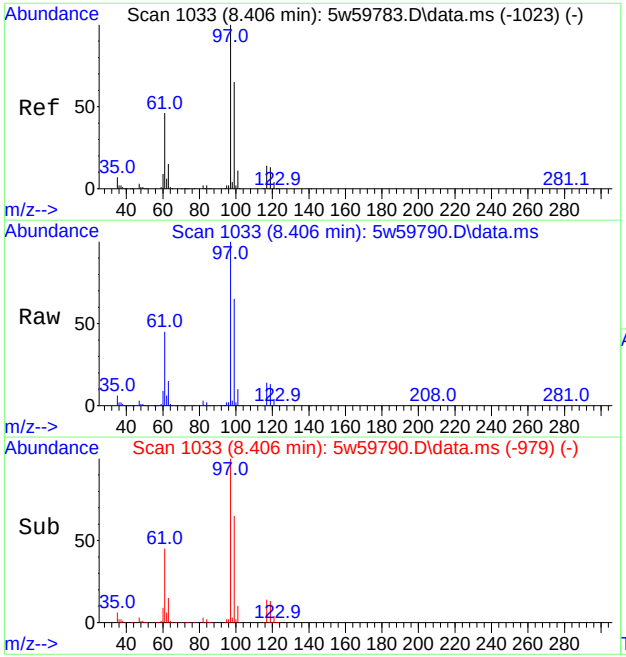


#47
2,4-DIMETHYLPENTANE
Concen: 10.74 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 967097

Ion	Ratio	Lower	Upper
57	100		
56	57.2	26.5	86.5
85	23.9	0.0	53.8

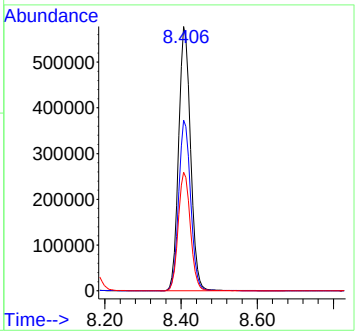


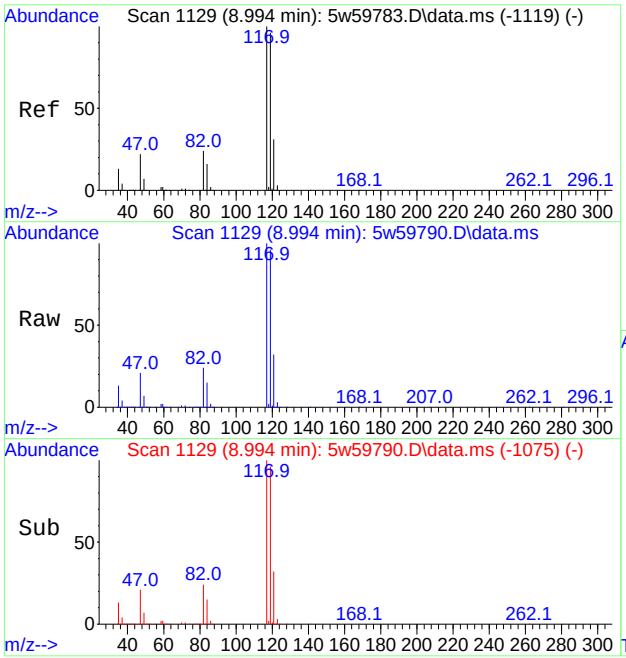


#48
1,1,1-TRICHLOROETHANE
Concen: 10.90 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 97 Resp: 1259183

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.8	94.8
61	45.8	15.8	75.8

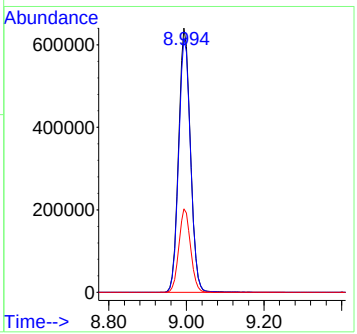


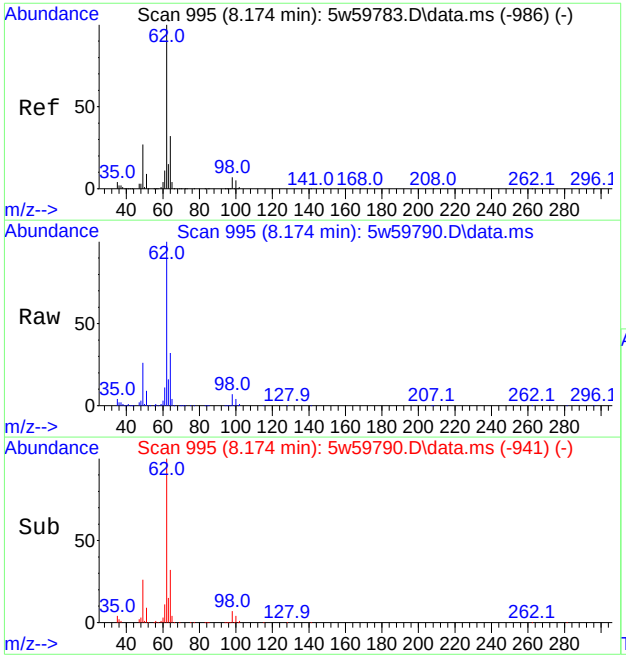


#49
CARBON TETRACHLORIDE
Concen: 10.85 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1361951

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.3	1.3	61.3

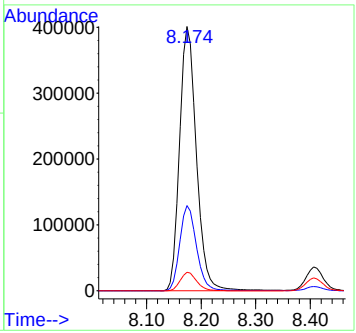


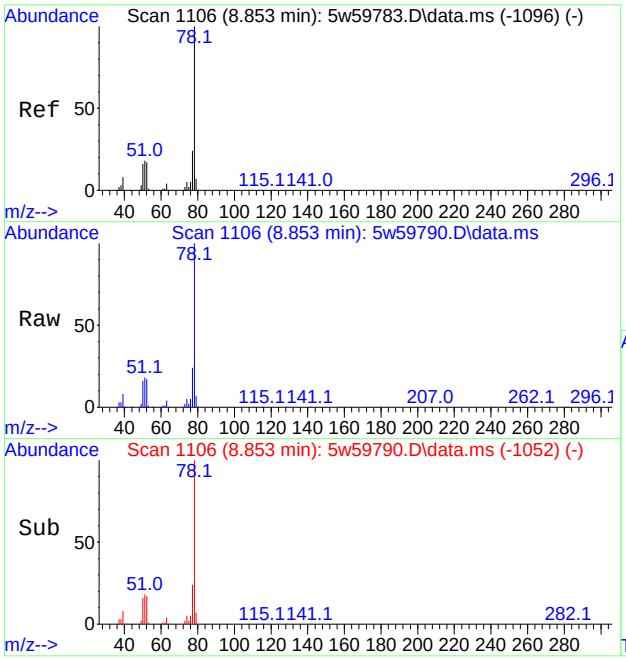


#50
1,2-DICHLOROETHANE
Concen: 11.15 PPBV
RT: 8.174 min Scan# 995
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 857881

Ion	Ratio	Lower	Upper
62	100		
64	32.2	2.3	62.3
98	6.9	0.0	36.9

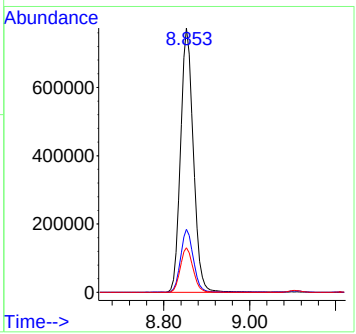


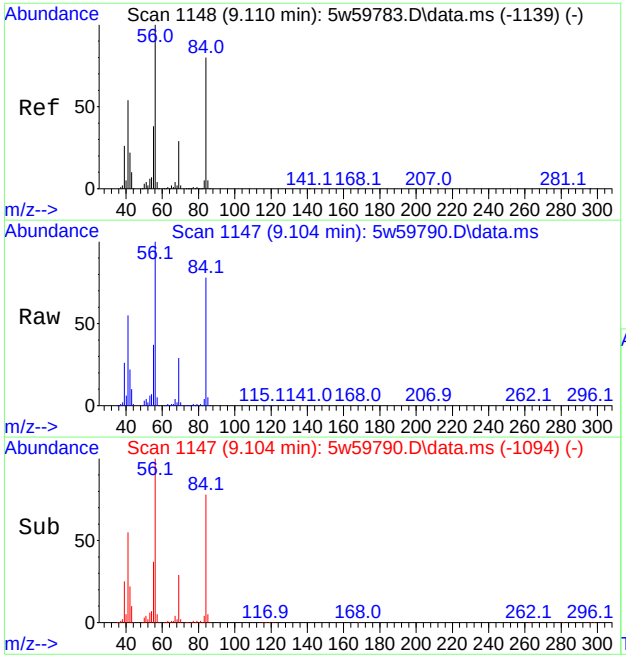


#52
BENZENE
Concen: 11.05 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 78 Resp: 1601042

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

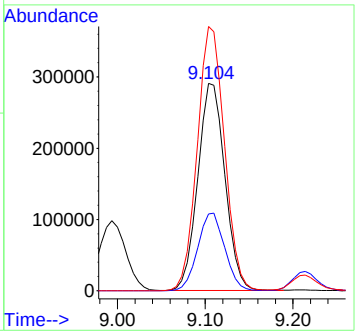


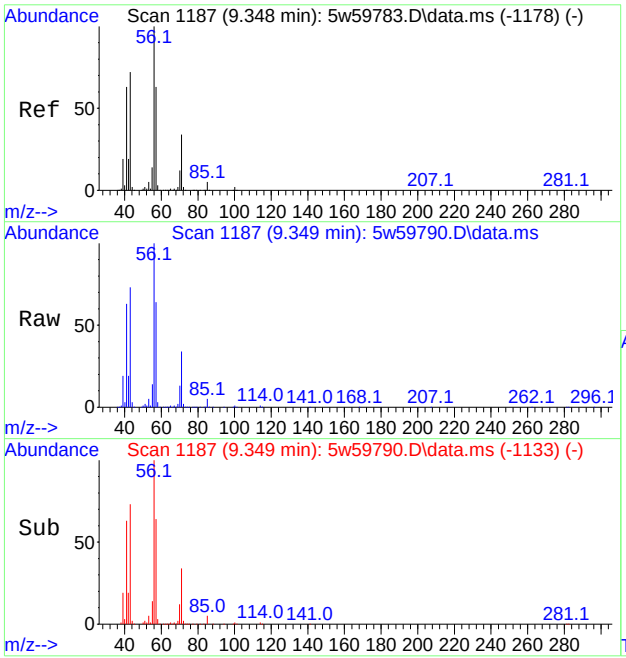


#53
CYCLOHEXANE
Concen: 10.78 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 624324

Ion	Ratio	Lower	Upper
84	100		
69	37.5	6.9	66.9
56	128.3	98.2	158.2

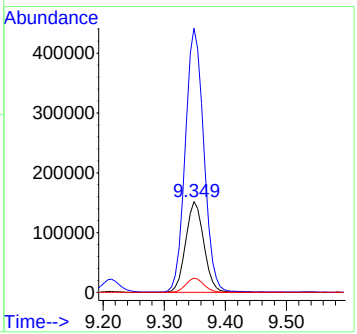


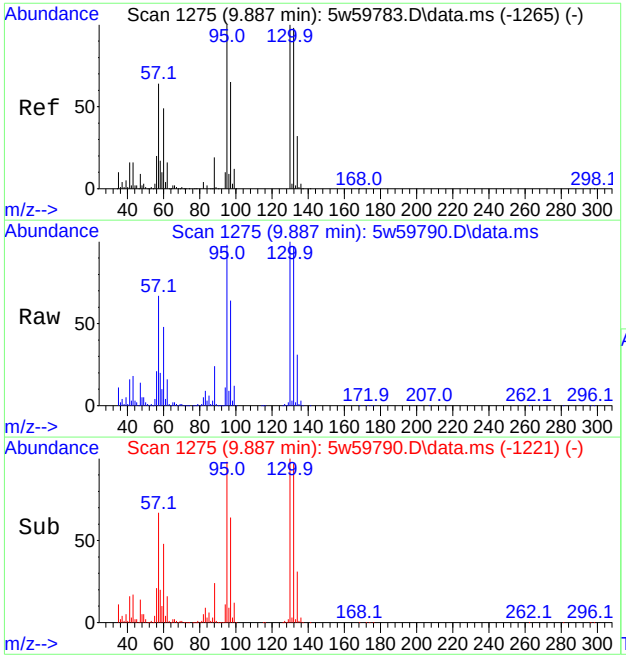


#54
2,3-DIMETHYLPENTANE
Concen: 10.75 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 71 Resp: 314676

Ion	Ratio	Lower	Upper
71	100		
56	298.0	264.6	324.6
85	15.5	0.0	45.3

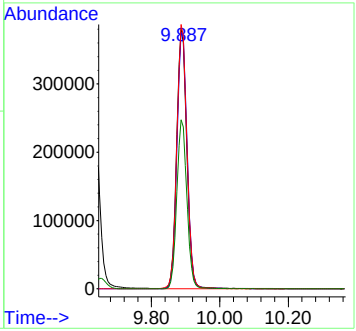


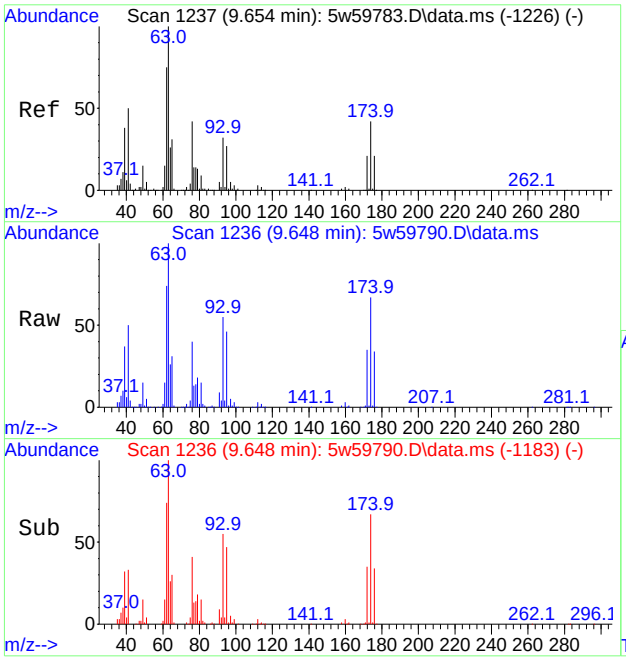


#55
TRICHLOROETHYLENE
Concen: 10.60 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 95 Resp: 782511

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.7	70.6	130.6
97	65.0	34.6	94.6

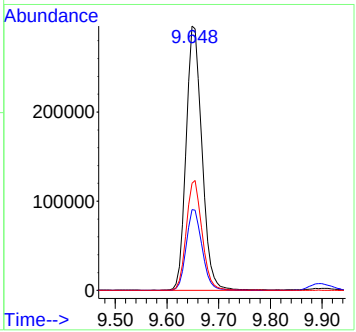


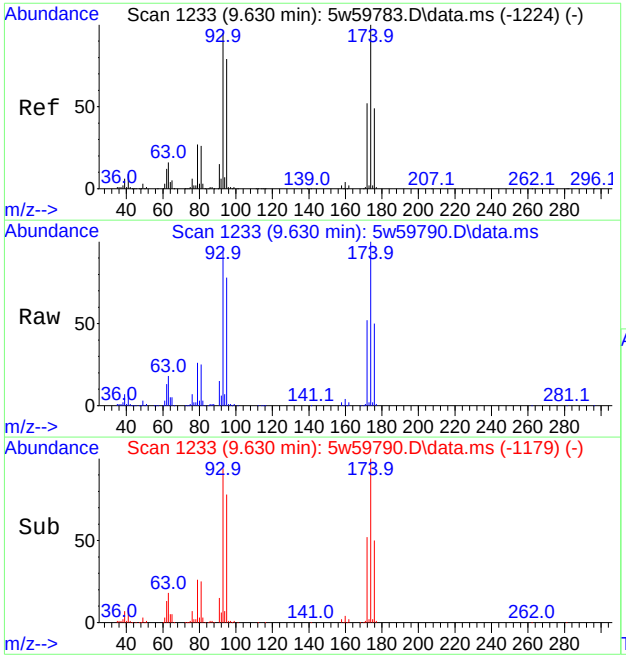


#56
1,2-DICHLOROPROPANE
Concen: 9.43 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 634380

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.1	11.5	71.5

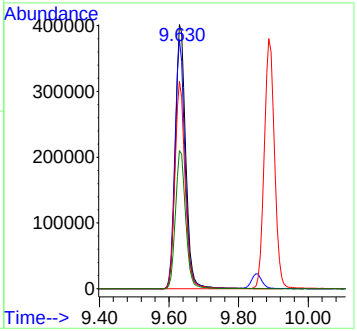


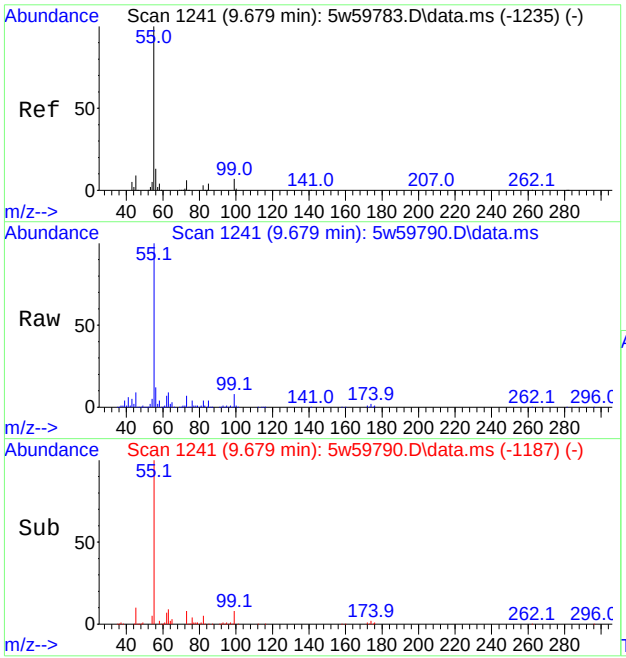


#57
DIBROMOMETHANE
Concen: 10.02 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:174 Resp: 826704

Ion	Ratio	Lower	Upper
174	100		
93	93.2	65.0	120.6
95	78.3	54.5	101.1
172	52.1	36.3	67.5

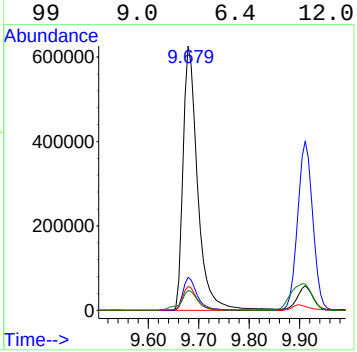


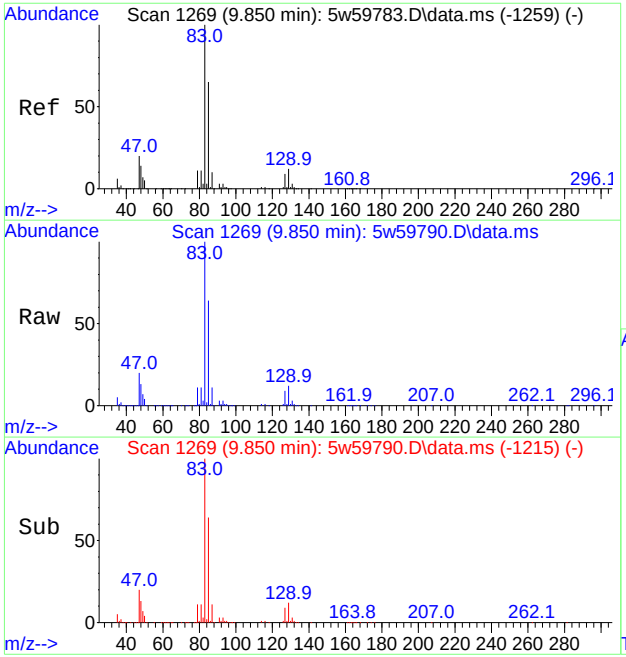


#58
ETHYL ACRYLATE
Concen: 11.98 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1259813

Ion	Ratio	Lower	Upper
55	100		
56	12.4	8.6	16.0
45	9.4	6.6	12.2
99	9.0	6.4	12.0

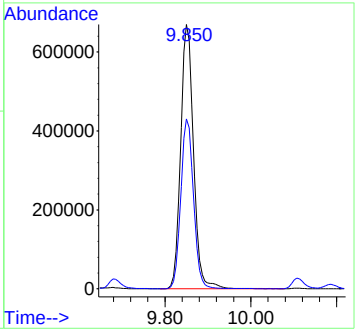


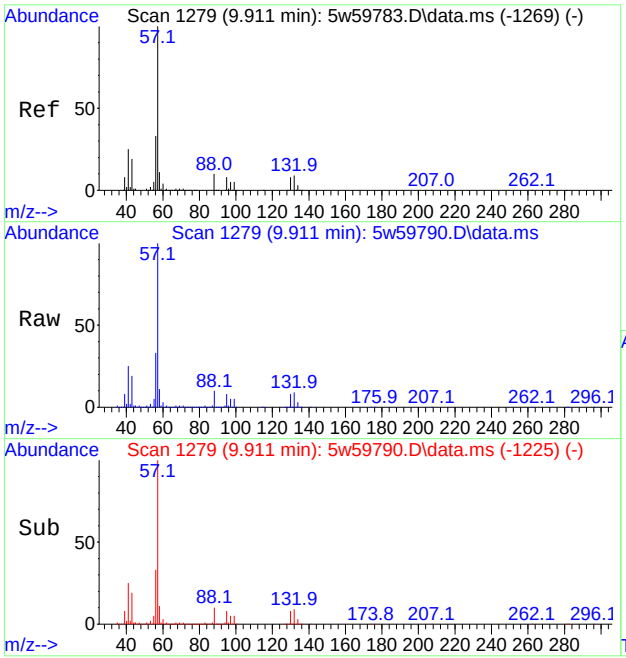


#59
BROMODICHLOROMETHANE
Concen: 10.86 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1390089

Ion	Ratio	Lower	Upper
83	100		
85	63.5	33.4	93.4

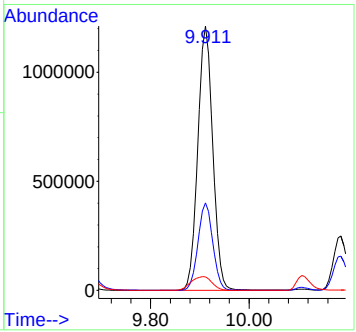


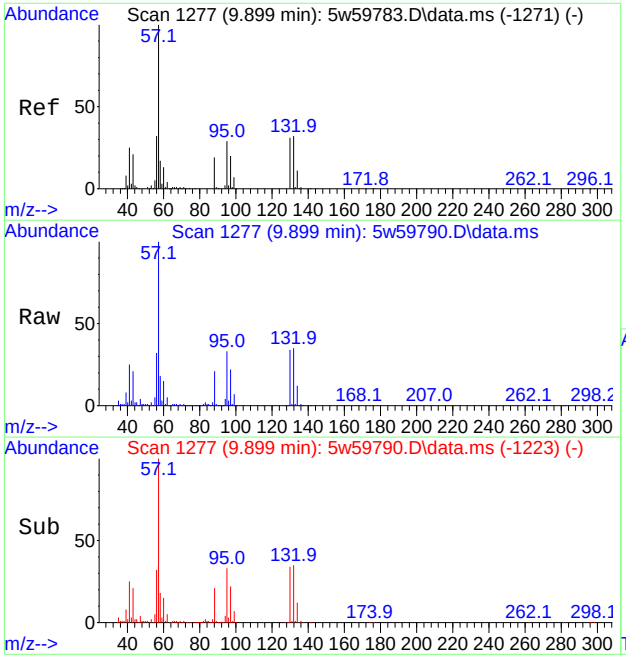


#60
2,2,4-TRIMETHYLPENTANE
Concen: 11.14 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 2555629

Ion	Ratio	Lower	Upper
57	100		
56	32.6	2.5	62.5
99	7.3	0.0	37.3

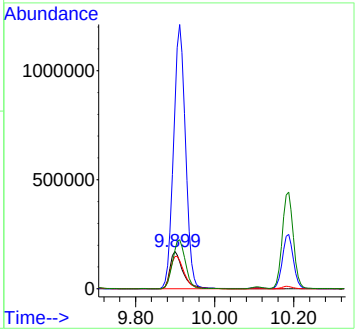


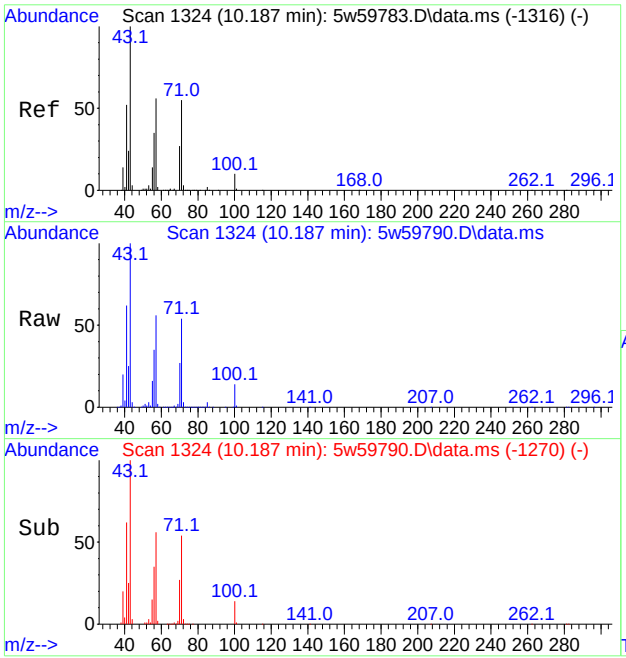


#61
1,4-DIOXANE
Concen: 11.81 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 88 Resp: 390530

Ion	Ratio	Lower	Upper
88	100		
57	486.3	494.2	554.2#
58	86.9	58.9	118.9
43	103.0	78.3	138.3

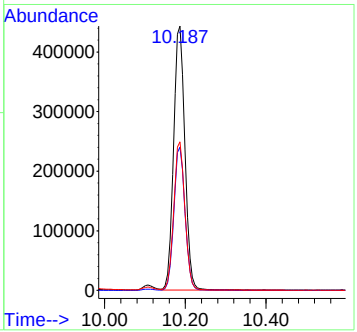


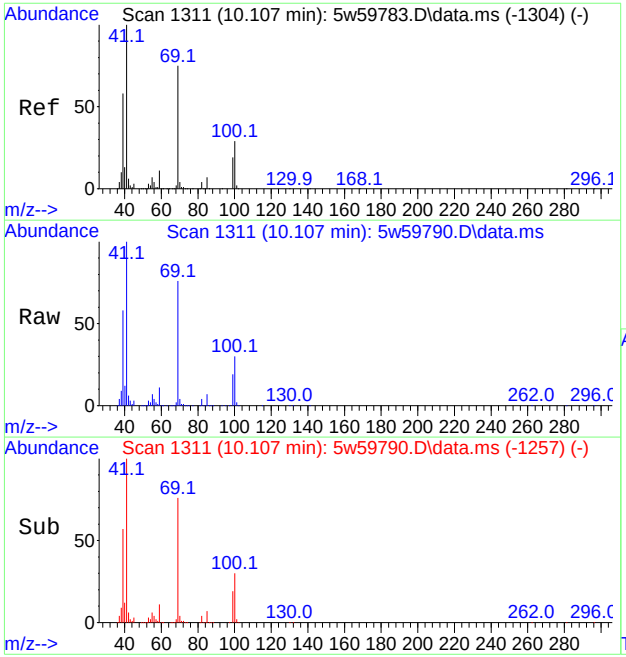


#62
HEPTANE
Concen: 10.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 861635

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.1	26.2	86.2

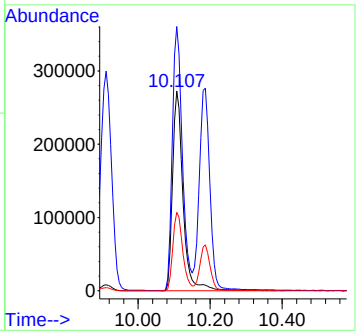


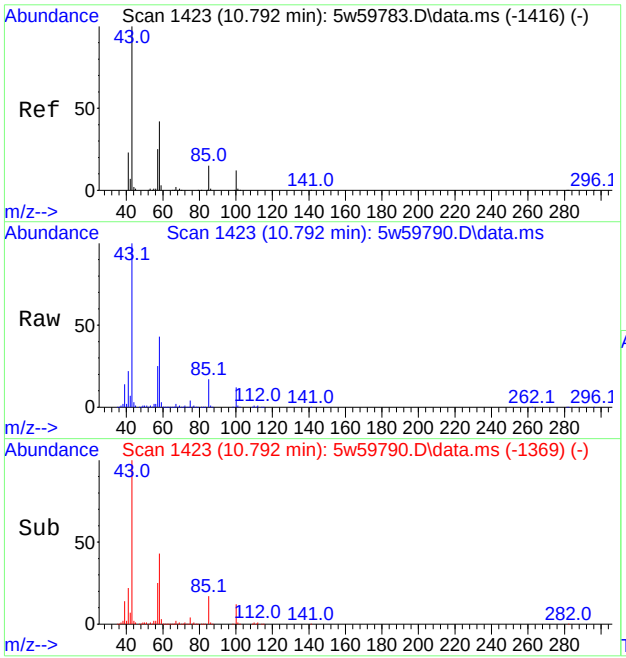


#63
METHYL METHACRYLATE
Concen: 11.70 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 552495

Ion	Ratio	Lower	Upper
69	100		
41	125.2	95.3	155.3
100	36.8	6.3	66.3

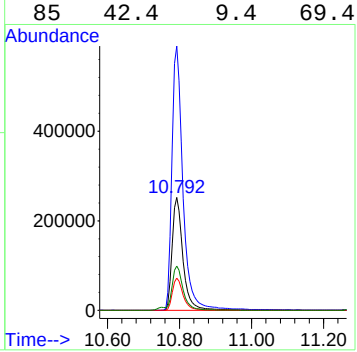


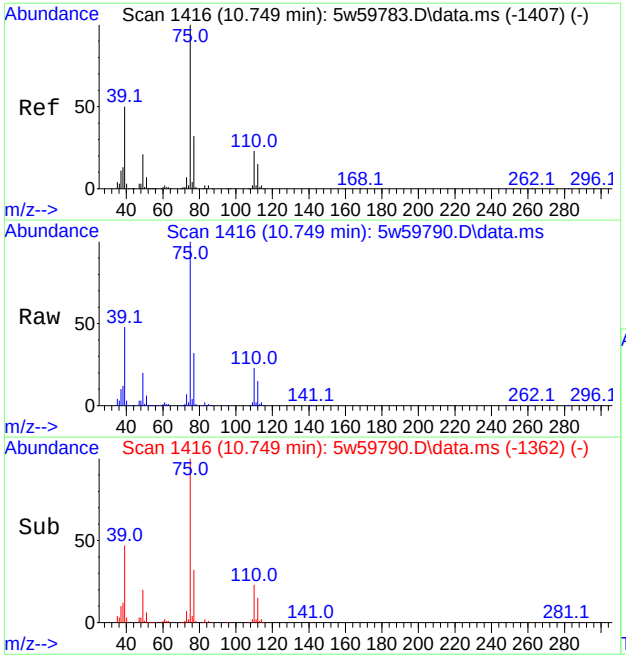


#64
METHYL ISOBUTYL KETONE
Concen: 12.46 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 532725

Ion	Ratio	Lower	Upper
58	100		
43	237.9	209.2	269.2
100	28.7	0.0	58.8
85	42.4	9.4	69.4

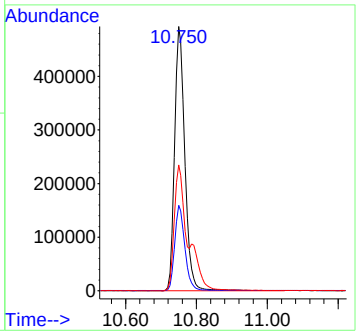


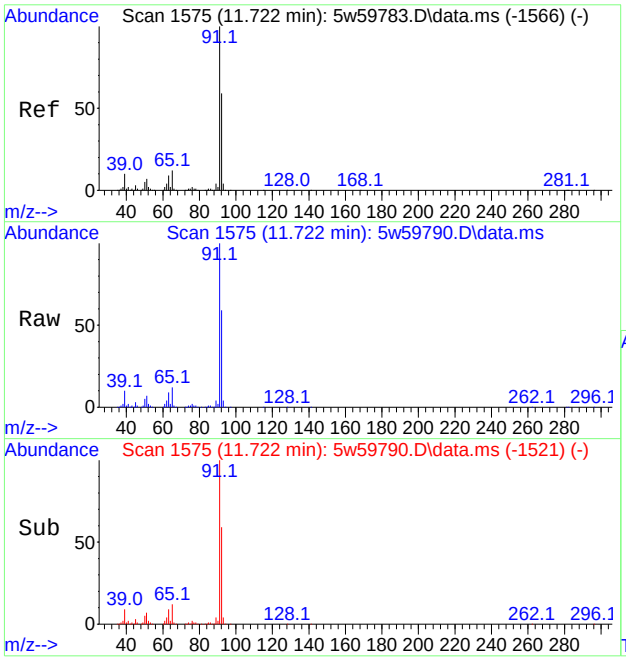


#65
cis-1,3-DICHLOROPROPENE
Concen: 9.61 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 990327

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.0	34.3	94.3

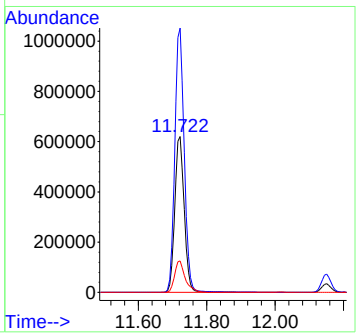


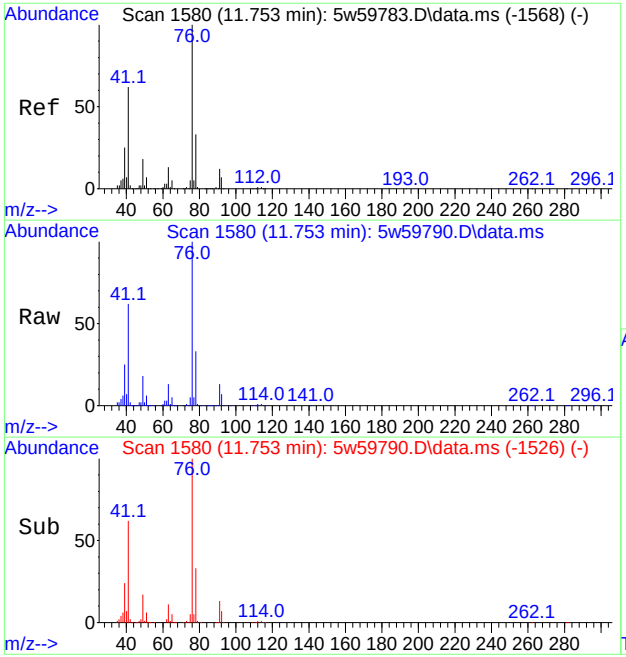


#66
TOLUENE
Concen: 11.05 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 92 Resp: 1196655

Ion	Ratio	Lower	Upper
92	100		
91	169.3	140.1	200.1
65	22.9	0.0	53.1

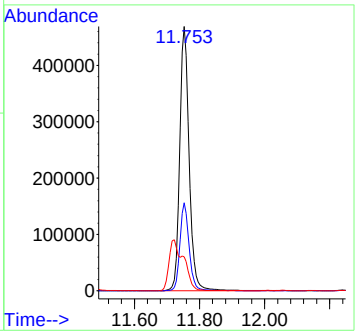


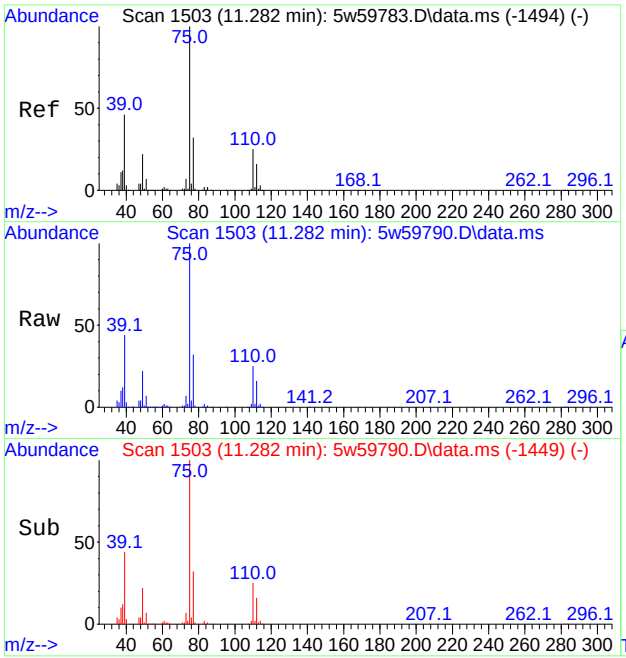


#67
1,3-DICHLOROPROPANE
Concen: 10.77 PPBV
RT: 11.753 min Scan# 1580
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 950675

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	0.0	7.1	13.1#

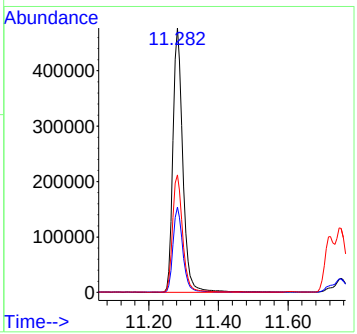


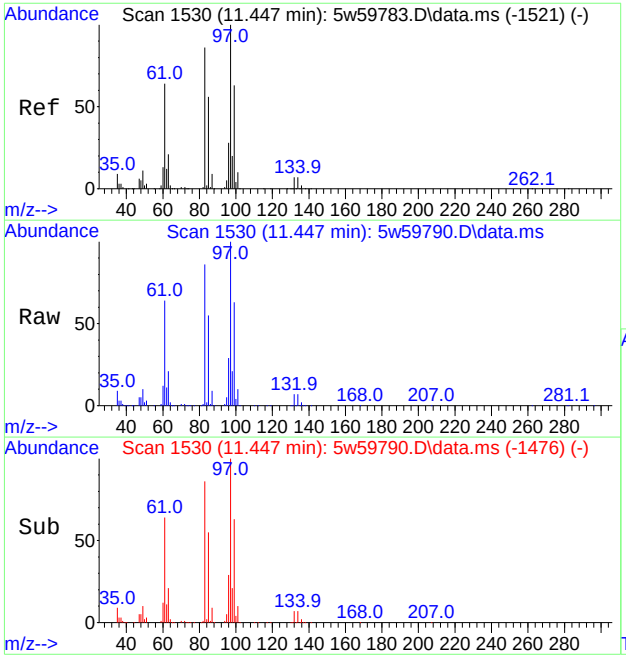


#68
trans-1,3-DICHLOROPROPENE
Concen: 9.66 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 940495

Ion	Ratio	Lower	Upper
75	100		
77	32.2	1.6	61.6
39	45.6	16.1	76.1

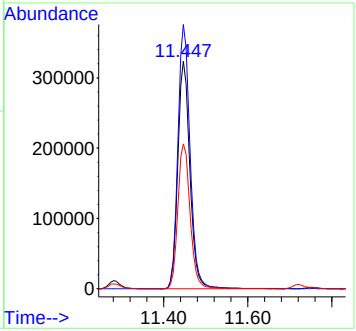


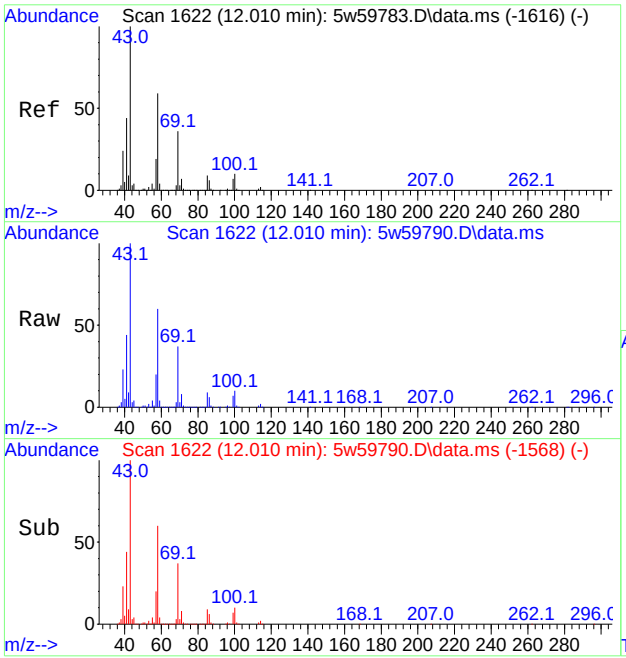


#69
1,1,2-TRICHLOROETHANE
Concen: 10.99 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 646298

Ion	Ratio	Lower	Upper
83	100		
97	116.7	86.3	146.3
85	64.9	35.3	95.3

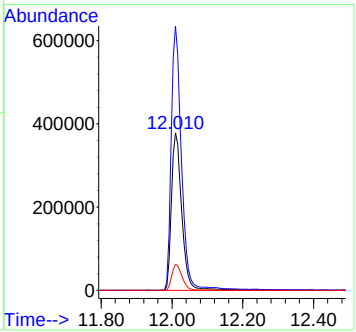


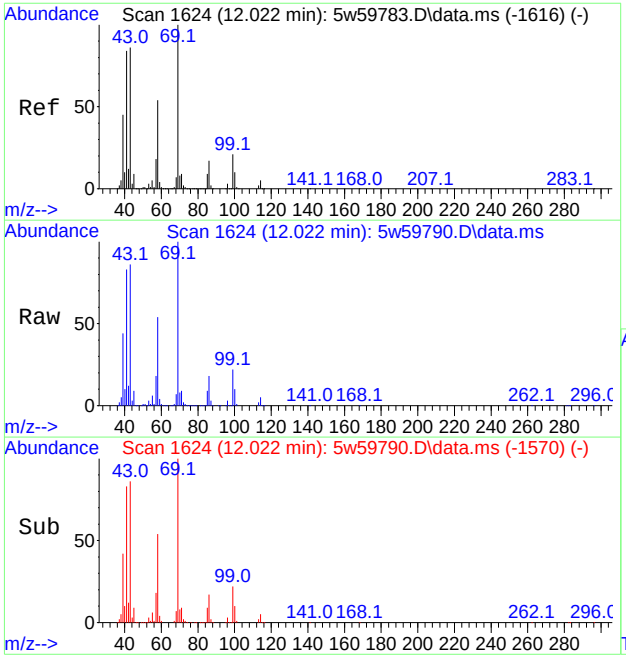


#71
2-HEXANONE
Concen: 12.62 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 770539

Ion	Ratio	Lower	Upper
58	100		
43	166.2	137.2	197.2
100	16.7	0.0	46.9

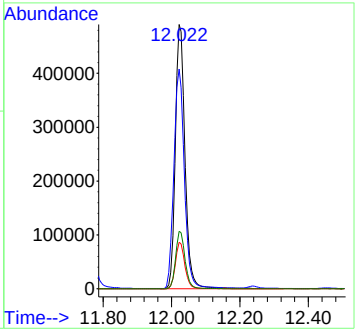


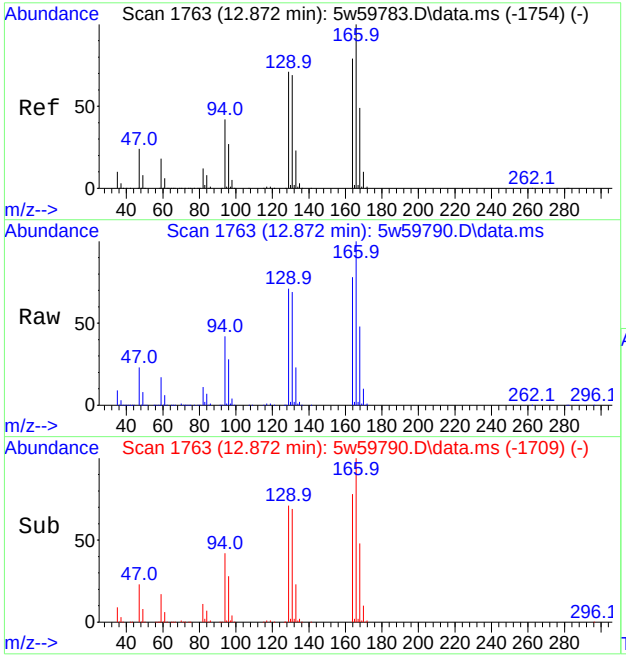


#72
ETHYL METHACRYLATE
Concen: 11.99 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 966723

Ion	Ratio	Lower	Upper
69	100		
41	90.6	64.0	119.0
86	17.3	12.0	22.4
99	21.4	15.0	27.8

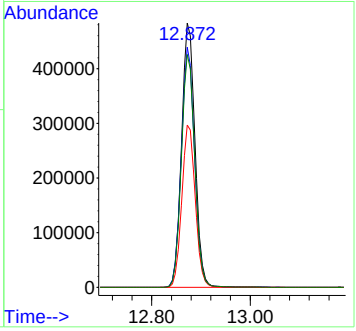


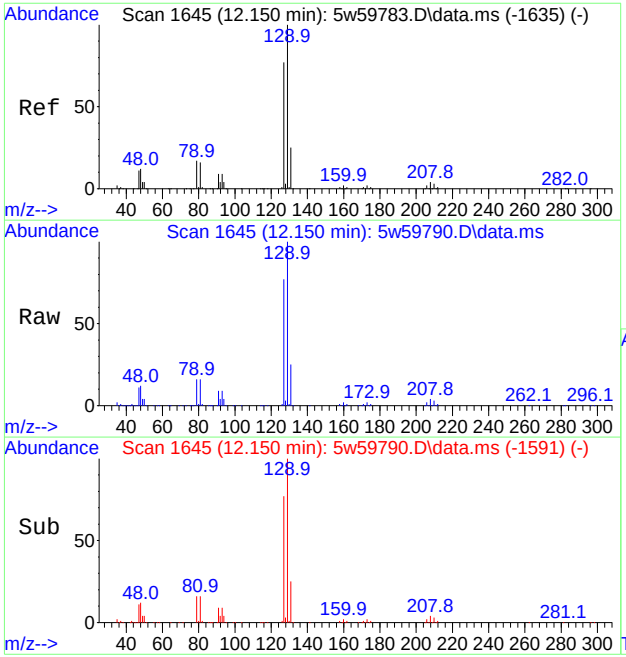


#73
TETRACHLOROETHYLENE
Concen: 11.49 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:164 Resp: 915172

Ion	Ratio	Lower	Upper
164	100		
129	90.3	59.7	119.7
168	62.0	32.2	92.2
131	88.1	57.8	117.8

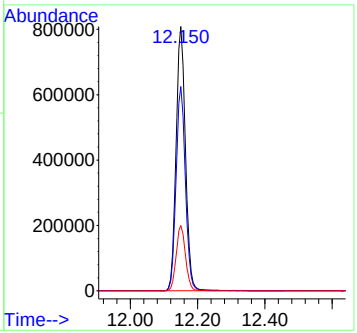


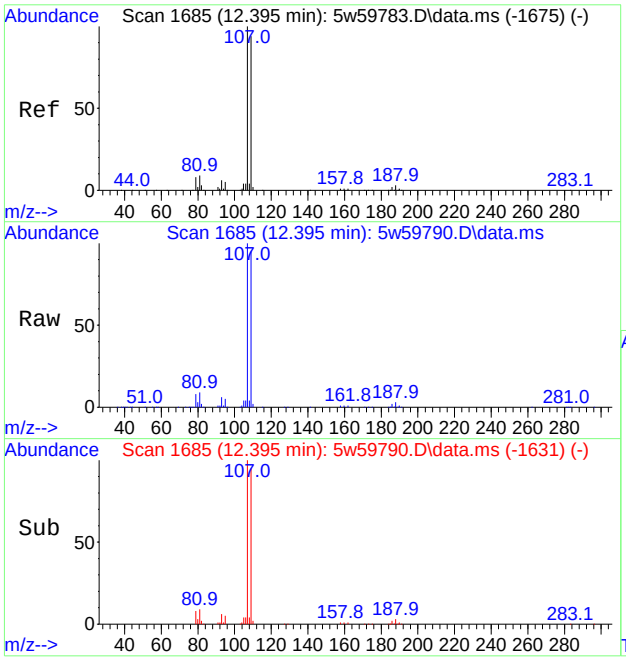


#74
DIBROMOCHLOROMETHANE
Concen: 11.39 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:129 Resp: 1566467

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.7	0.0	54.5

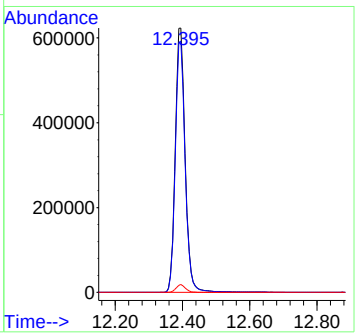


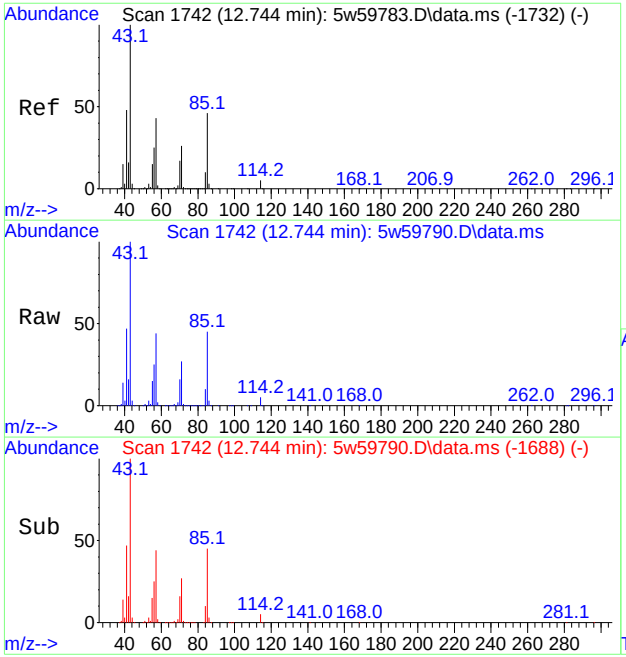


#75
1,2-DIBROMOETHANE
Concen: 11.89 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:107 Resp: 1272221

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	2.8	0.0	32.8

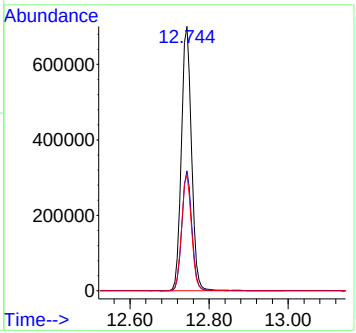


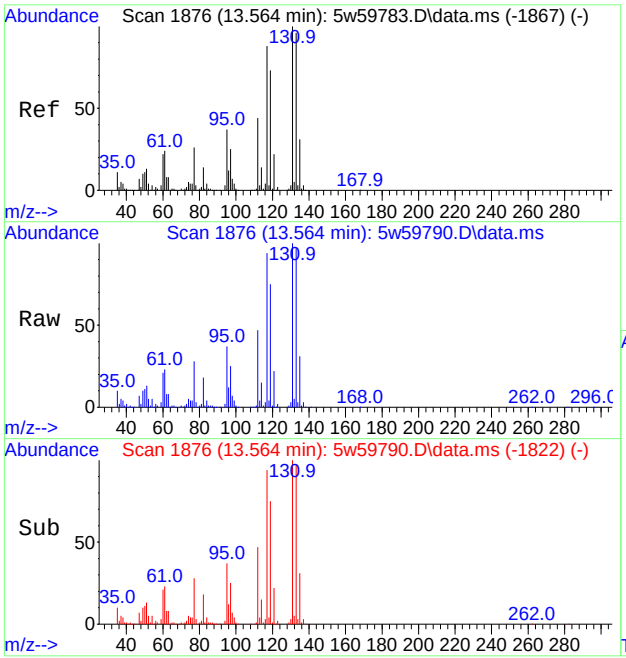


#76
OCTANE
Concen: 11.27 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1249572

Ion	Ratio	Lower	Upper
43	100		
85	44.7	14.6	74.6
57	43.4	13.7	73.7

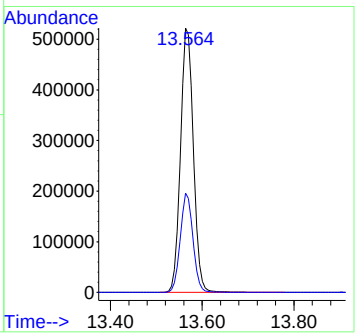


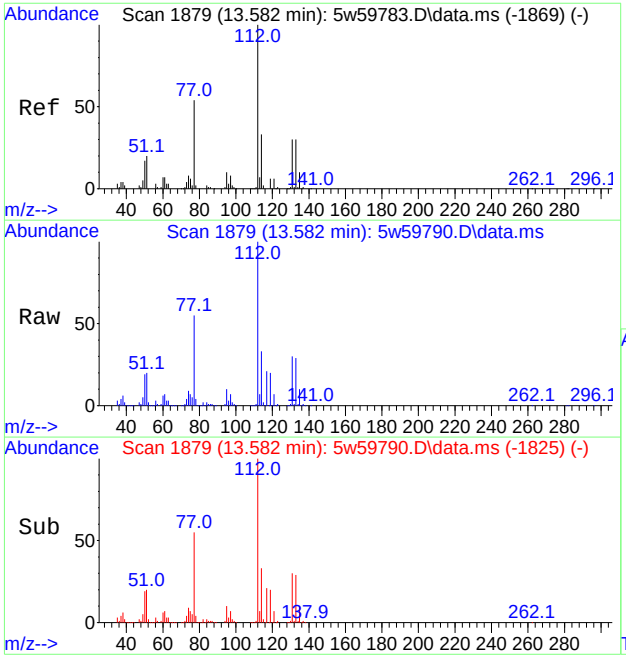


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 11.62 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:131 Resp: 1017442

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

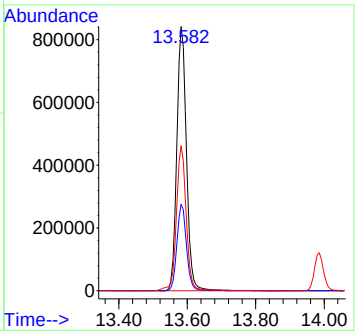


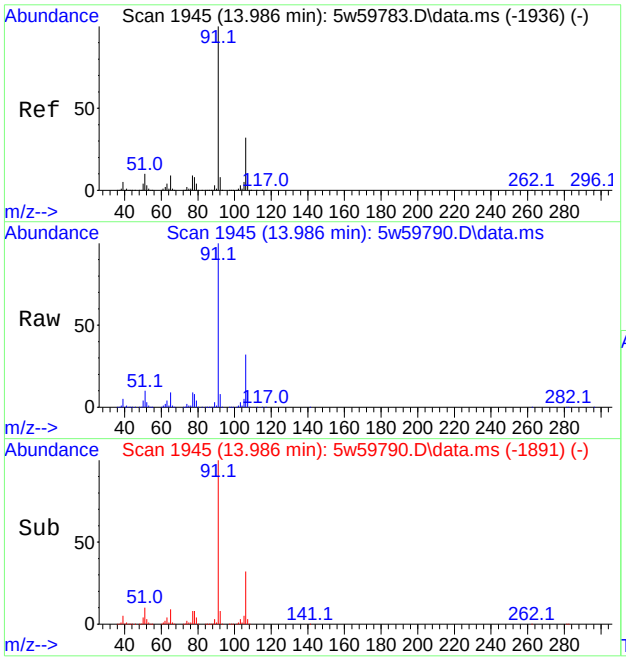


#78
CHLOROBENZENE
Concen: 11.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:112 Resp: 1647850

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.5	25.4	85.4

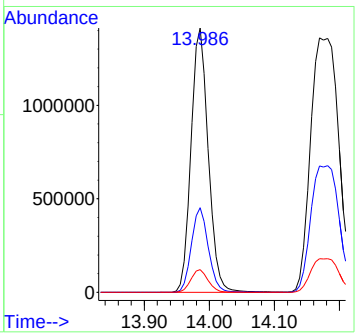


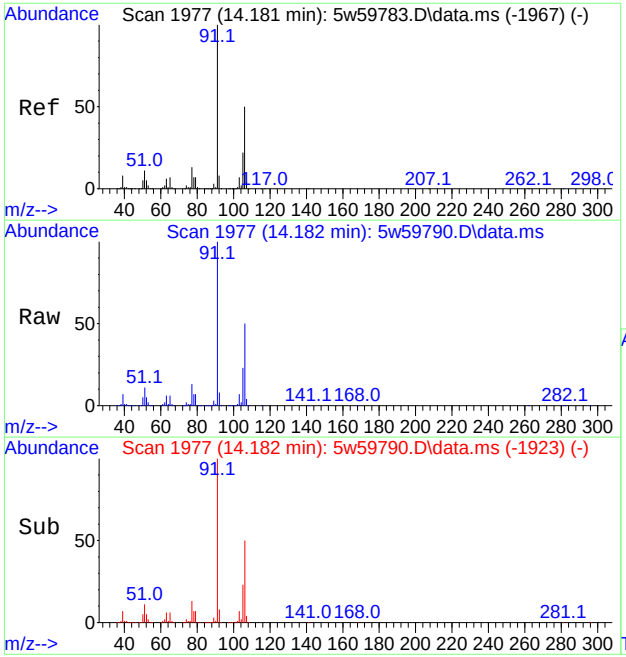


#79
ETHYLBENZENE
Concen: 11.61 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2597260

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.3	61.3
77	8.6	0.0	38.6

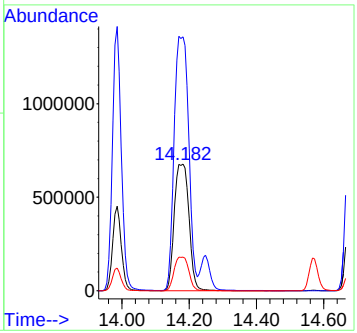


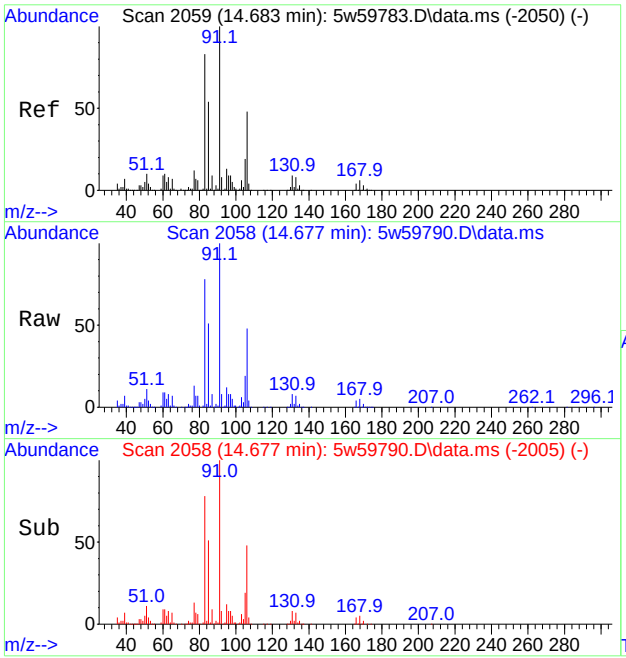


#80
m,p-XYLENE
Concen: 23.24 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 2050019

Ion	Ratio	Lower	Upper
106	100		
91	200.2	171.0	231.0
77	26.6	0.0	56.7

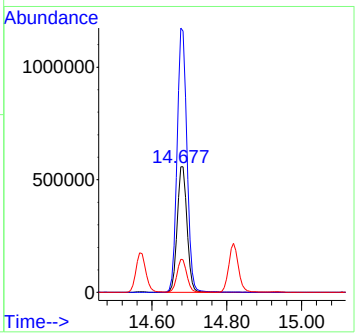


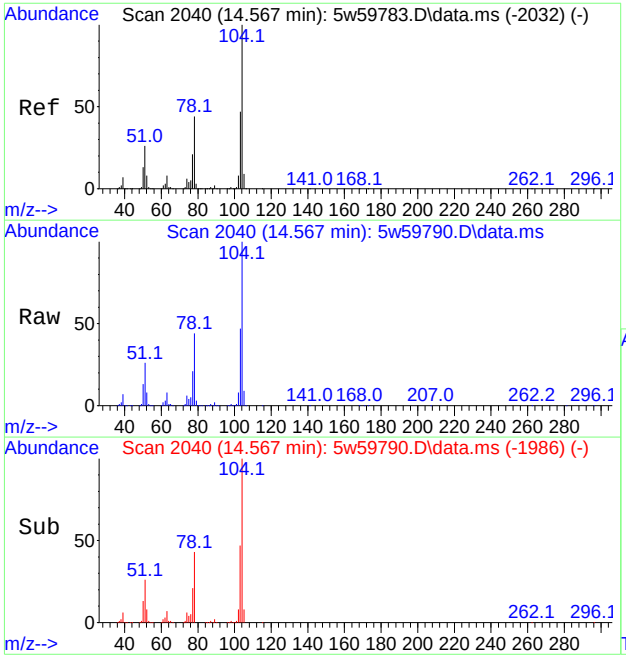


#81
o-XYLENE
Concen: 12.30 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 1016013

Ion	Ratio	Lower	Upper
106	100		
91	209.6	181.6	241.6
77	26.2	0.0	56.6

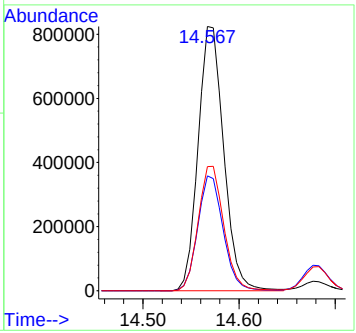


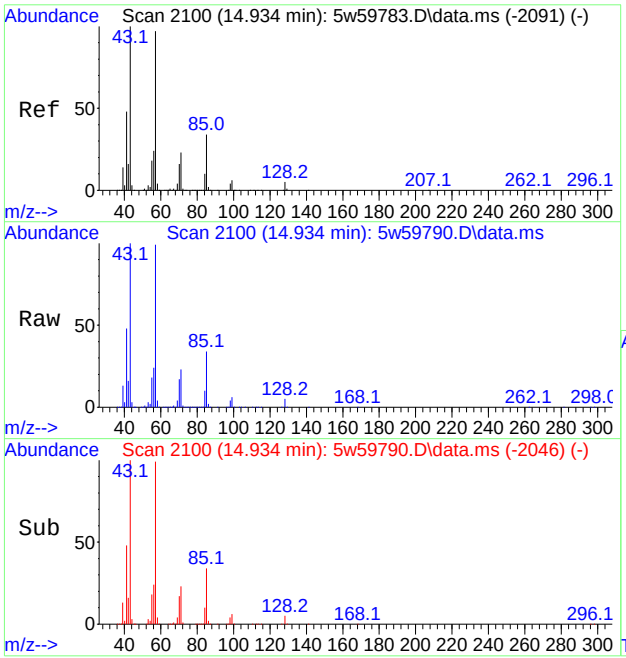


#82
STYRENE
Concen: 11.88 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:104 Resp: 1531560

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.1	17.2	77.2

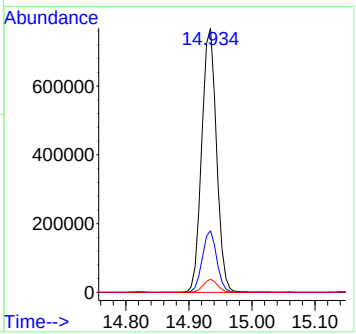


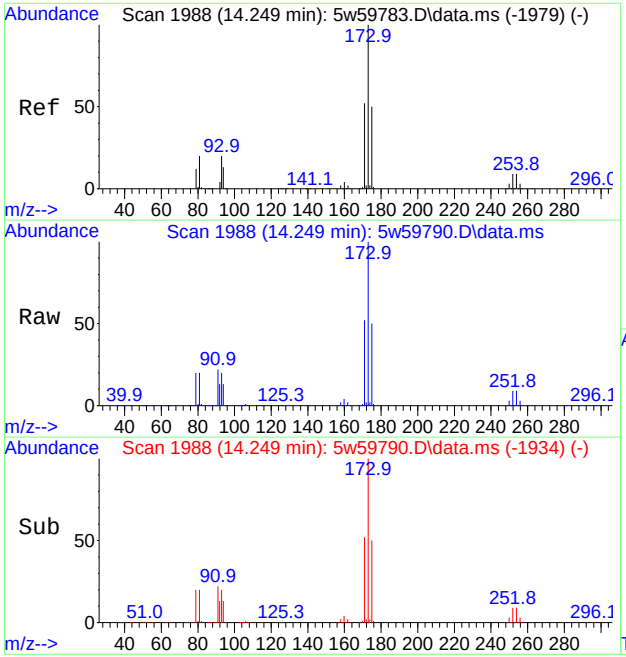


#83
NONANE
Concen: 11.11 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1246325

Ion	Ratio	Lower	Upper
43	100		
71	22.9	0.0	52.7
128	4.8	0.0	34.7

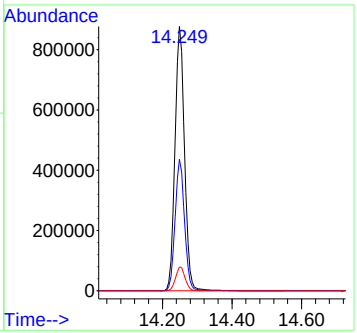


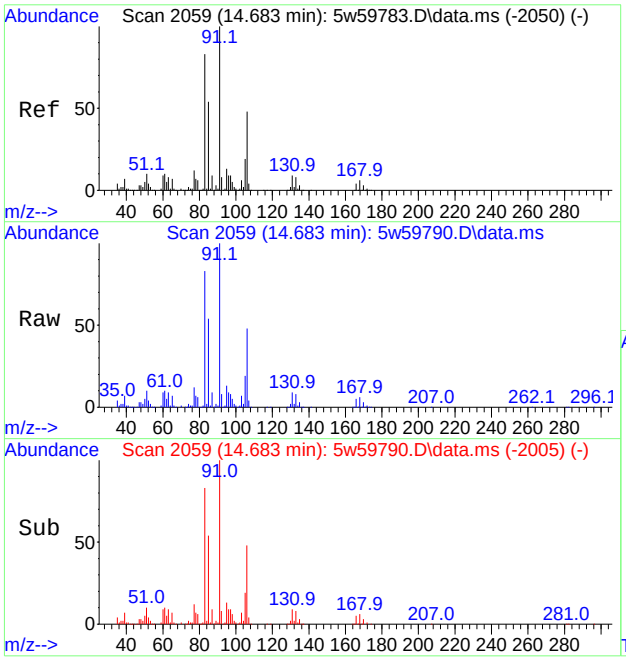


#84
BROMOFORM
Concen: 12.32 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:173 Resp: 1671641

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	9.0	0.0	39.0

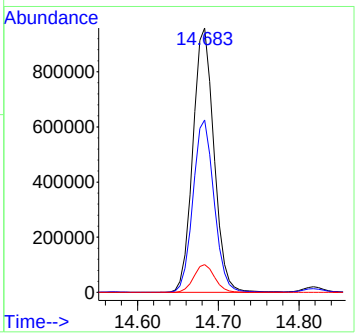


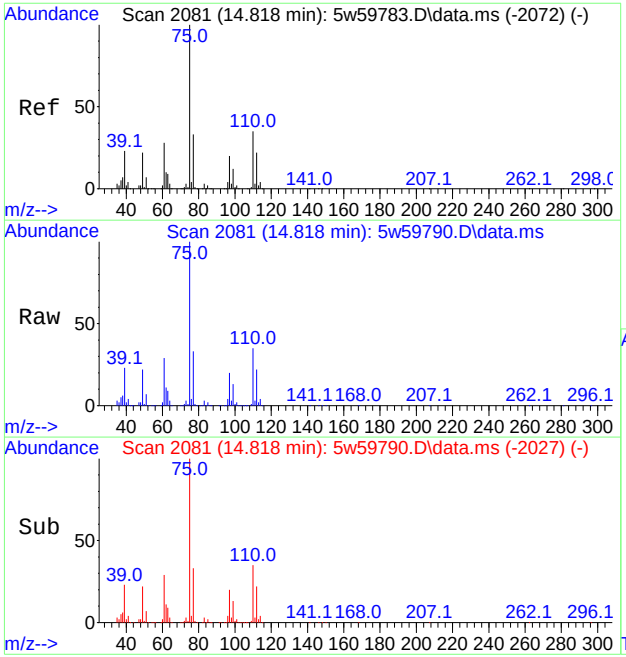


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.14 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1743965

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.2	95.2
131	10.5	0.0	40.3

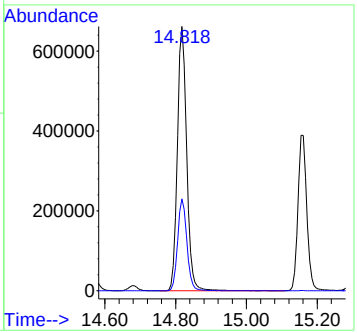


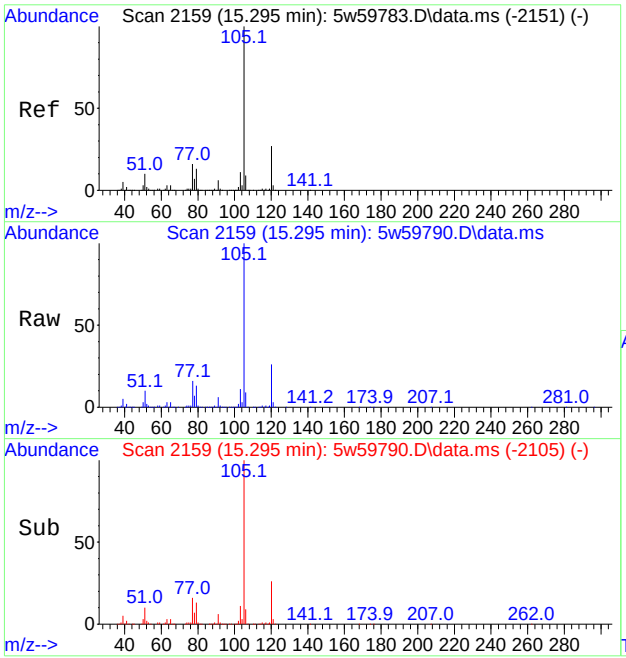


#87
1,2,3-TRICHLOROPROPANE
Concen: 10.42 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 1202955

Ion	Ratio	Lower	Upper
75	100		
110	34.7	4.4	64.4

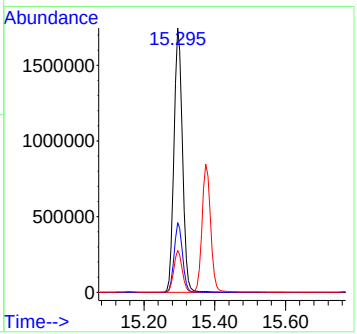


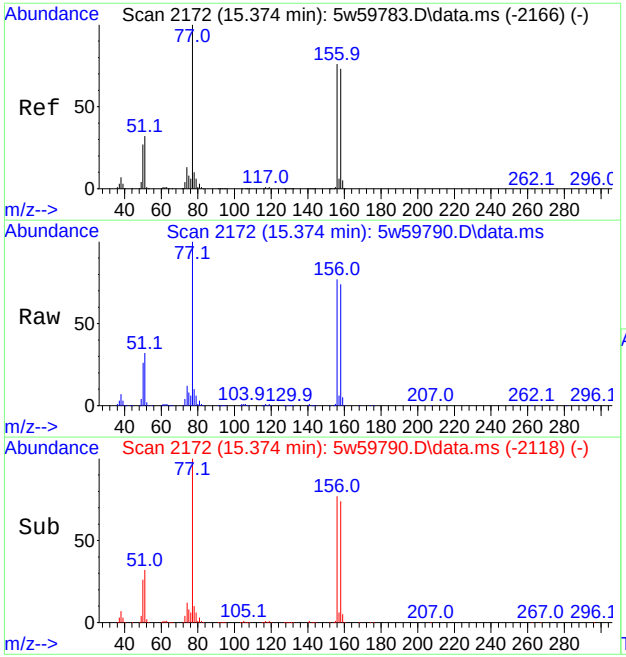


#88
ISOPROPYLBENZENE
Concen: 11.51 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2910298

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

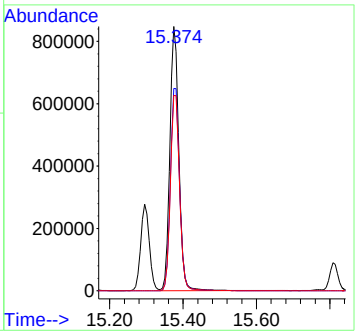


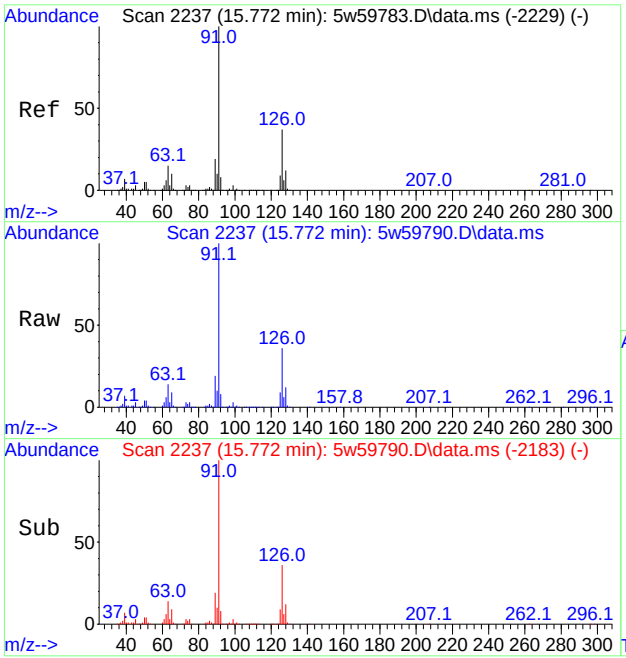


#89
BROMOBENZENE
Concen: 10.87 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 77 Resp: 1429493

Ion	Ratio	Lower	Upper
77	100		
156	78.9	54.9	101.9
158	76.6	53.5	99.3

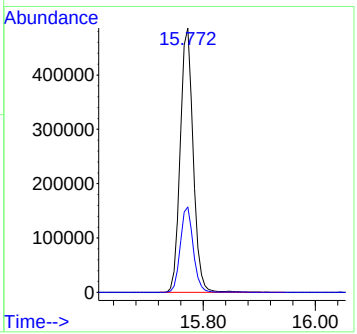


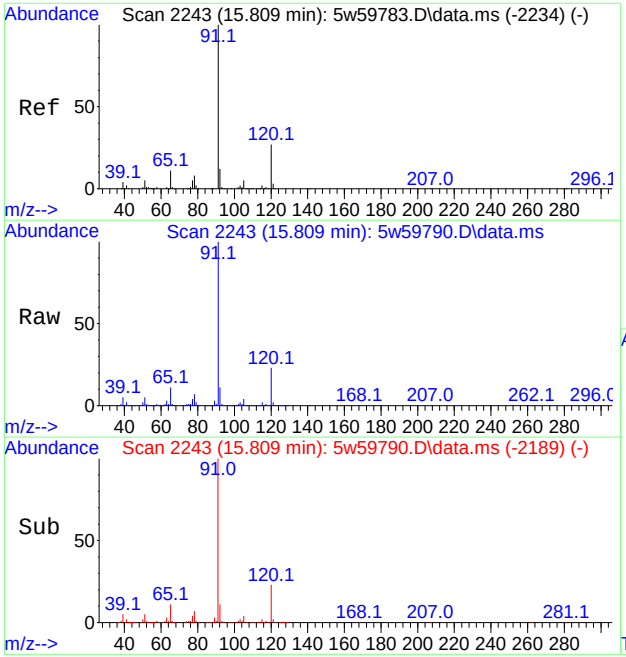


#90
2-CHLOROTOLUENE
Concen: 11.13 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:126 Resp: 779180

Ion	Ratio	Lower	Upper
126	100		
128	32.5	2.7	62.7

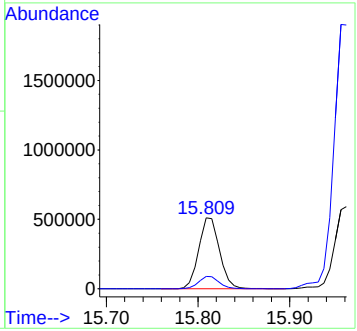


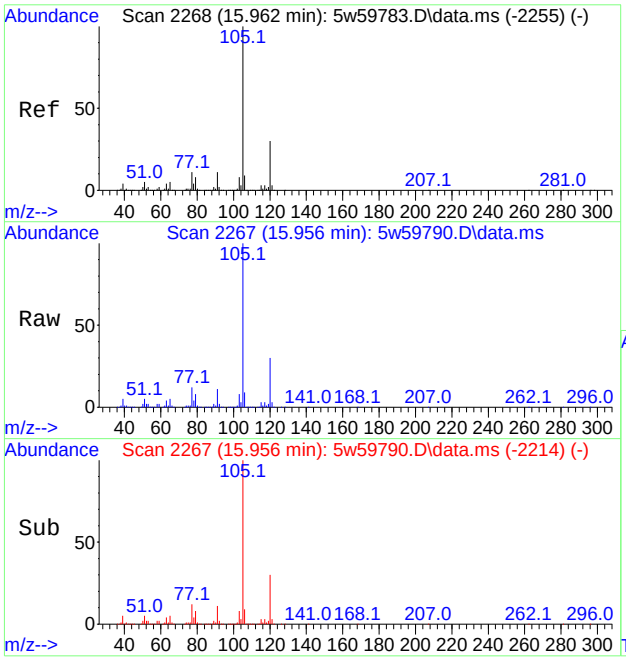


#91
n-PROPYLBENZENE
Concen: 11.92 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:120 Resp: 807953

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

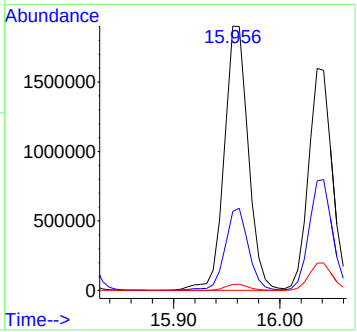


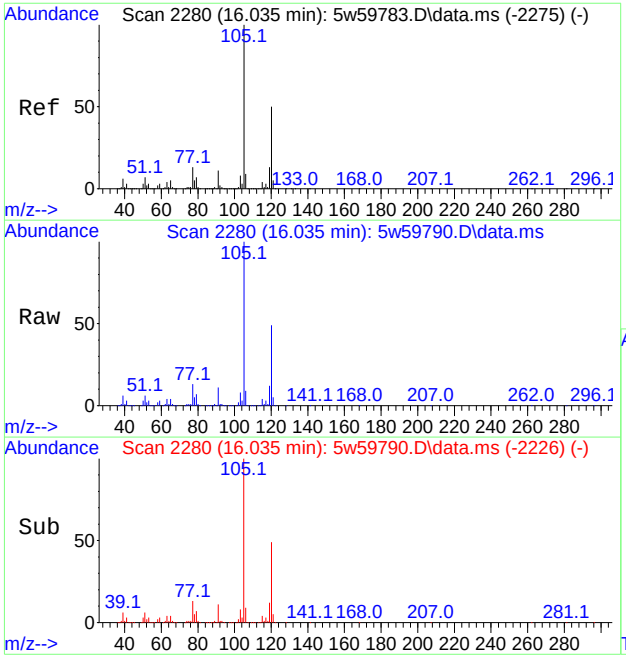


#92
4-ETHYLTOLUENE
Concen: 12.93 PPBV
RT: 15.956 min Scan# 2267
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2990249

Ion	Ratio	Lower	Upper
105	100		
120	30.3	0.0	59.9
119	2.3	0.0	32.3

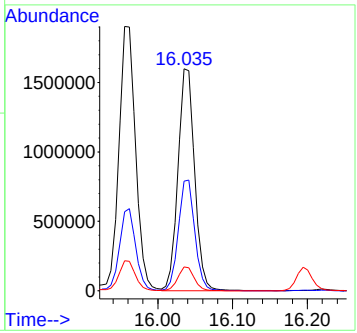


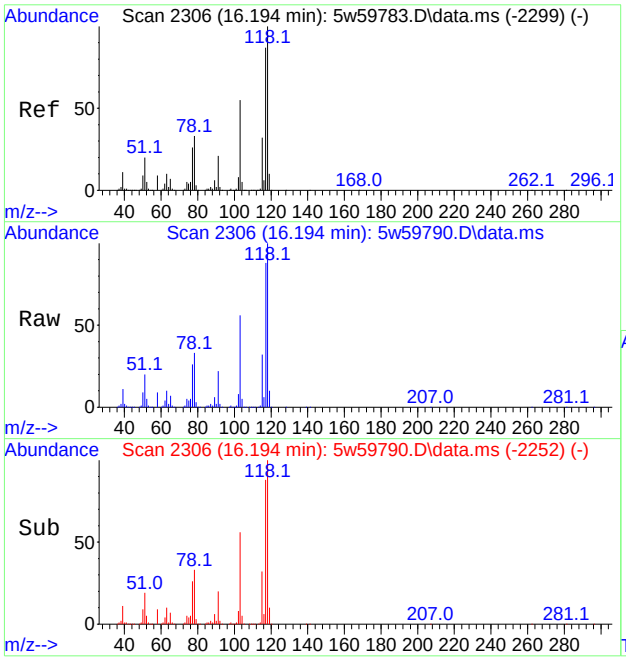


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.54 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2480601

Ion	Ratio	Lower	Upper
105	100		
120	49.3	19.4	79.4
91	10.7	0.0	40.8

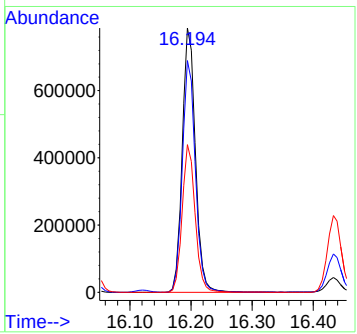


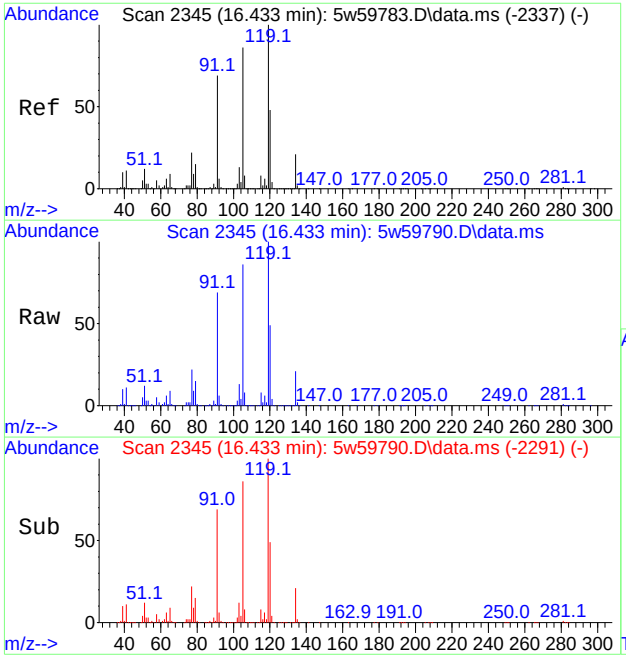


#94
ALPHA-METHYLSTYRENE
Concen: 11.12 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:118 Resp: 1177774

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.4	38.6	71.8

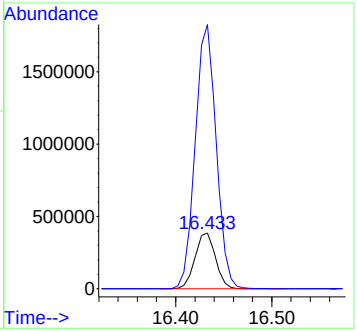


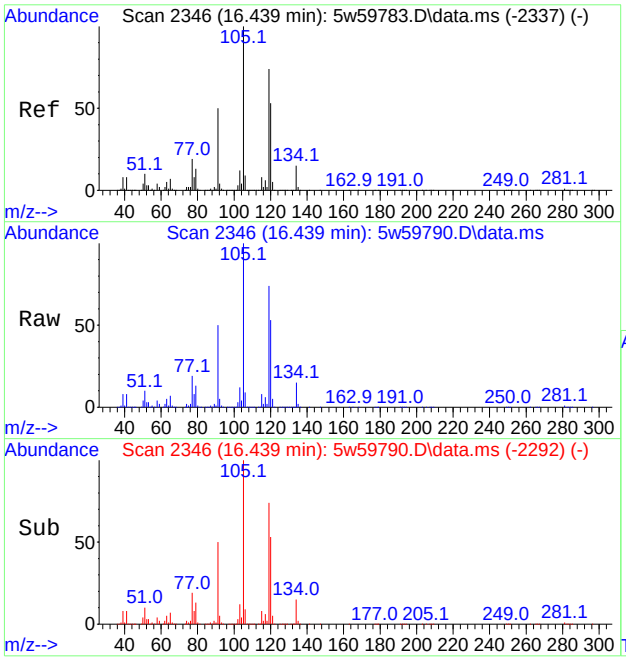


#95
tert-BUTYLBENZENE
Concen: 13.08 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 570968

Ion	Ratio	Lower	Upper
134	100		
119	485.6	459.3	519.3

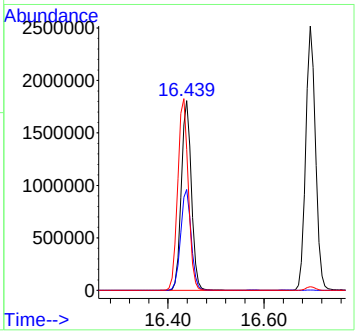


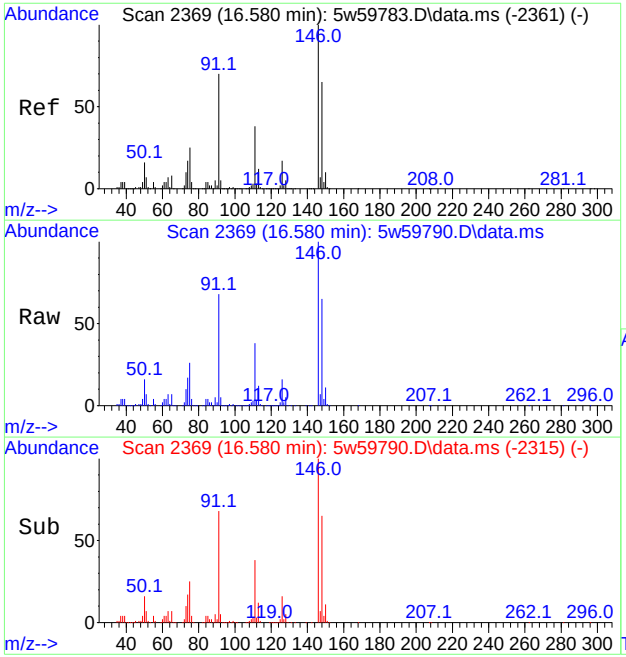


#96
1,2,4-TRIMETHYLBENZENE
Concen: 13.02 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2612198

Ion	Ratio	Lower	Upper
105	100		
120	55.9	25.7	85.7
119	106.1	75.7	135.7

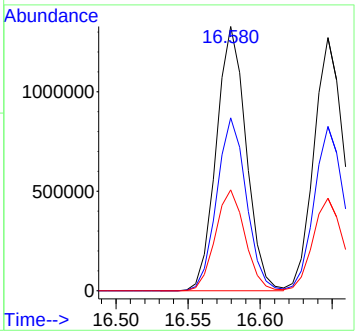


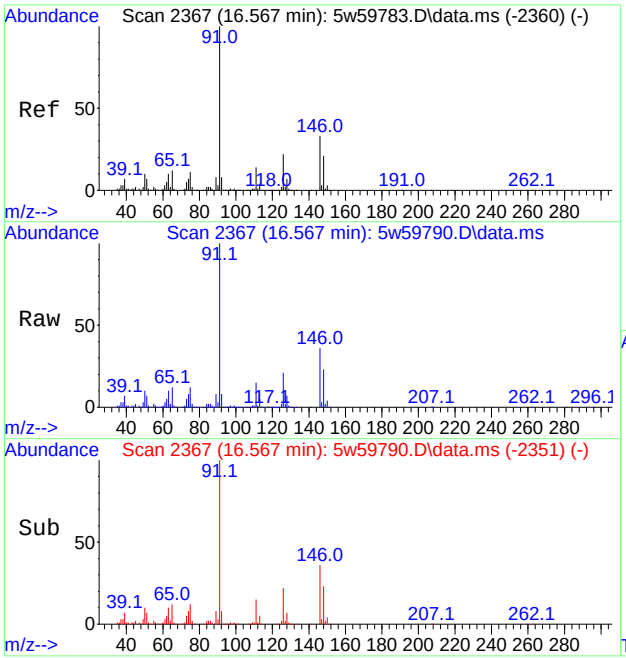


#97
m-DICHLOROBENZENE
Concen: 12.50 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1916772

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.8	94.8
111	38.1	8.2	68.2

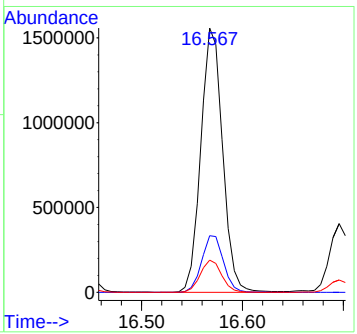


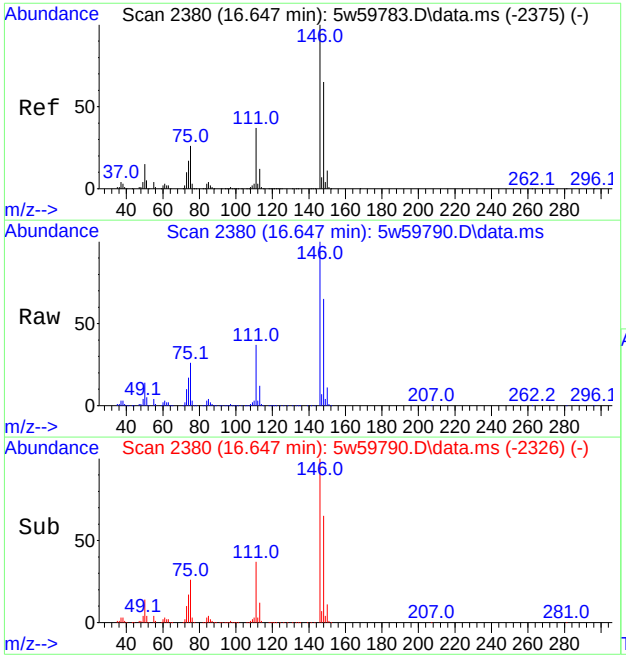


#98
BENZYL CHLORIDE
Concen: 12.63 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2335931

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.1	0.0	42.2

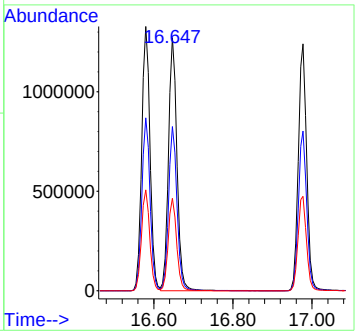


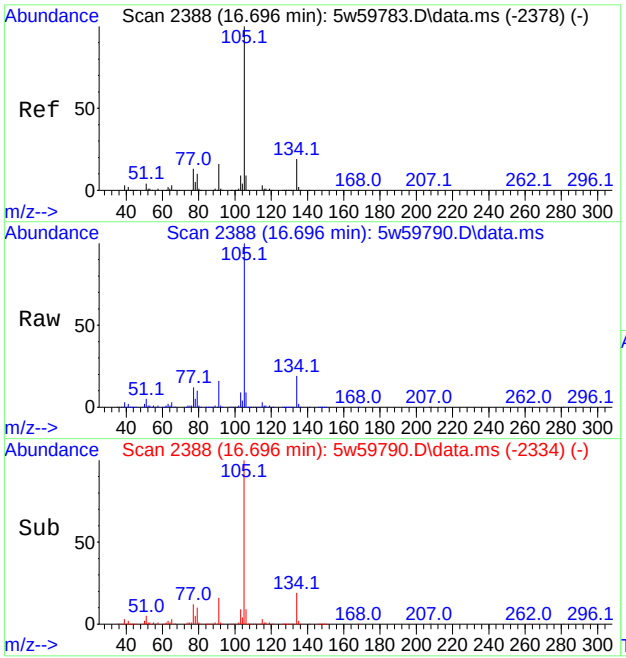


#99
p-DICHLOROBENZENE
Concen: 11.46 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1889997

Ion	Ratio	Lower	Upper
146	100		
148	64.7	34.6	94.6
111	36.6	6.7	66.7

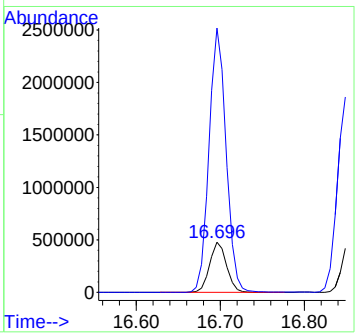


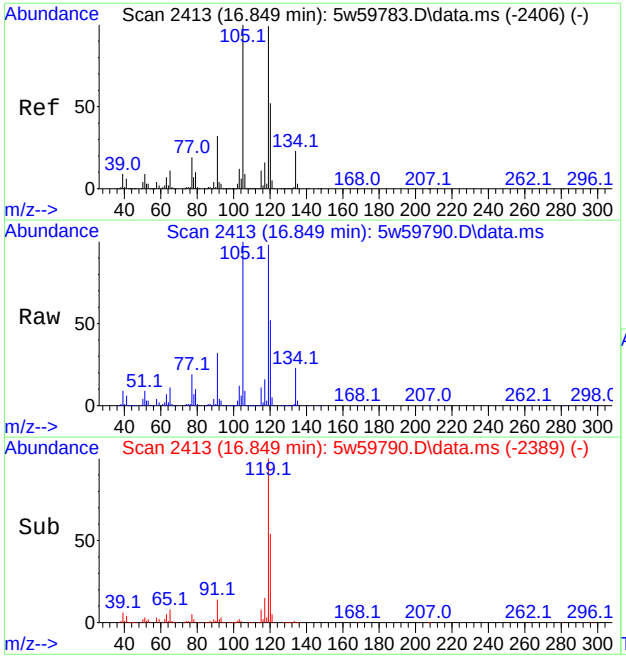


#100
sec-BUTYLBENZENE
Concen: 12.13 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 670798

Ion	Ratio	Lower	Upper
134	100		
105	530.0	502.5	562.5

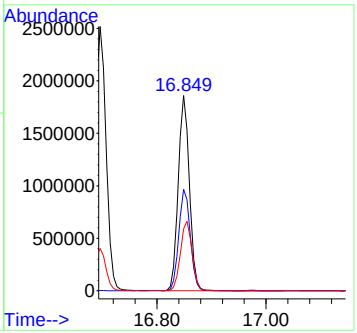


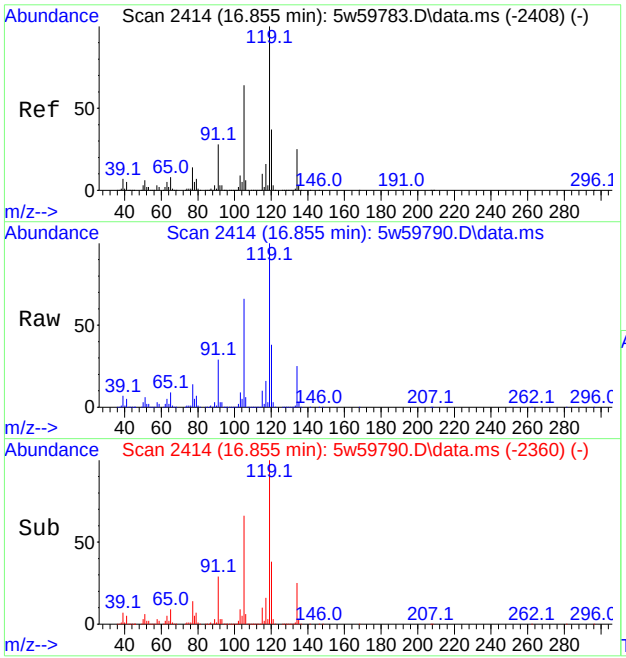


#101
1,2,3-TRIMETHYLBENZENE
Concen: 12.36 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2623929

Ion	Ratio	Lower	Upper
105	100		
120	53.6	23.5	83.5
91	37.1	7.4	67.4

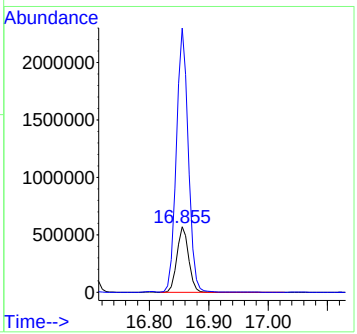


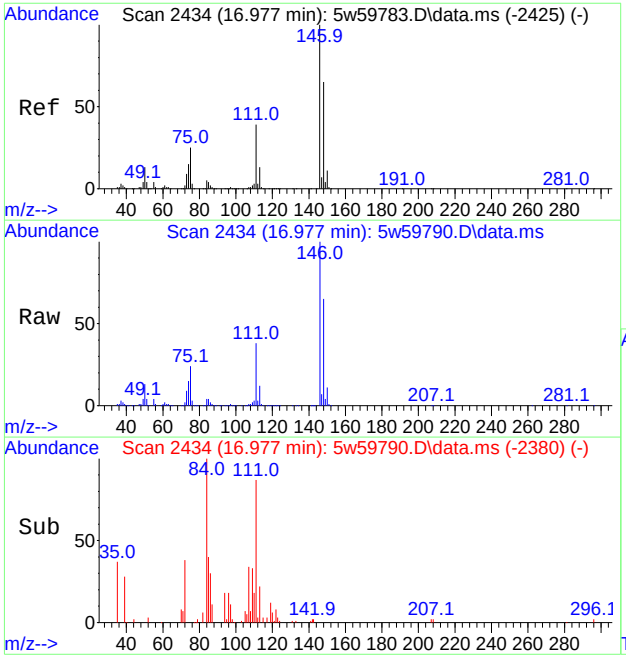


#102
p-ISOPROPYLTOLUENE
Concen: 12.67 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 794033

Ion	Ratio	Lower	Upper
134	100		
119	408.5	377.7	437.7

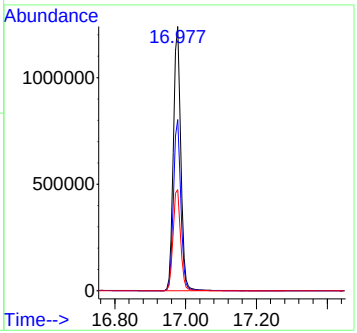


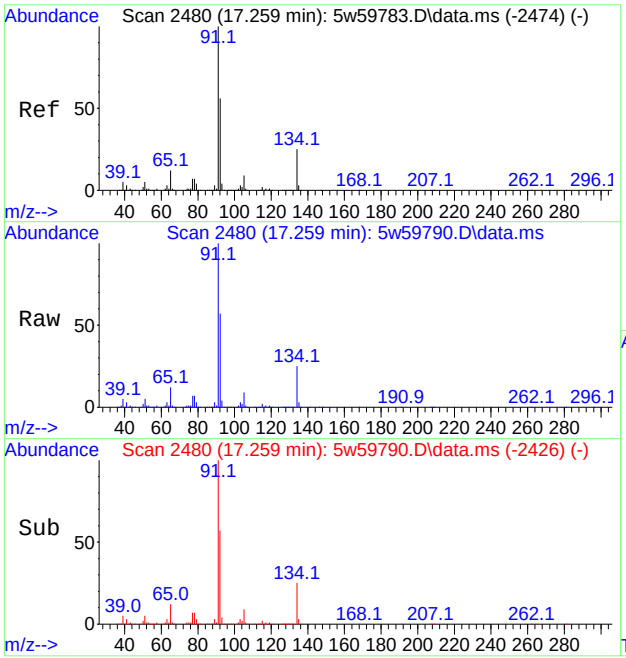


#103
o-DICHLOROBENZENE
Concen: 11.75 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1807576

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.3	94.3
111	38.9	9.2	69.2

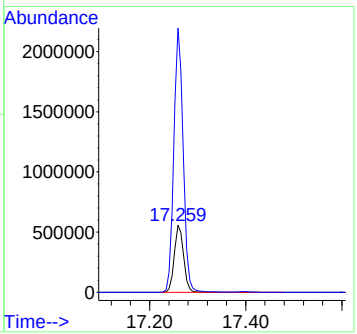


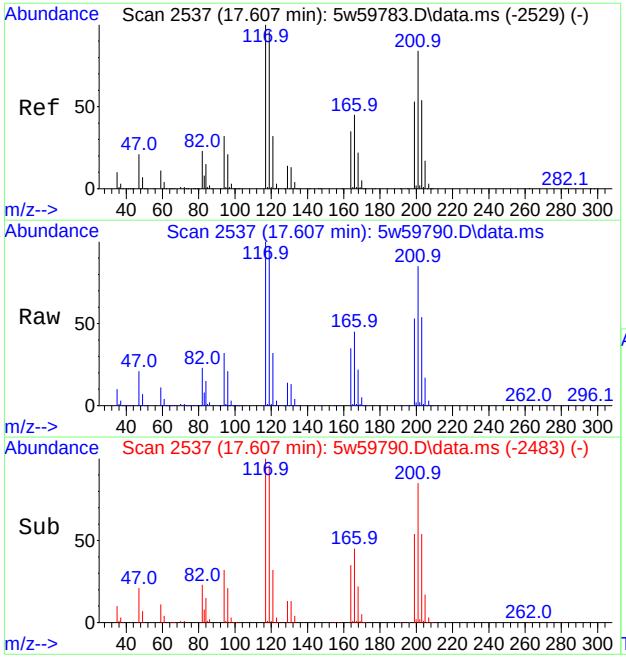


#104
n-BUTYLBENZENE
Concen: 12.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 753590

Ion	Ratio	Lower	Upper
134	100		
91	392.6	363.1	423.1

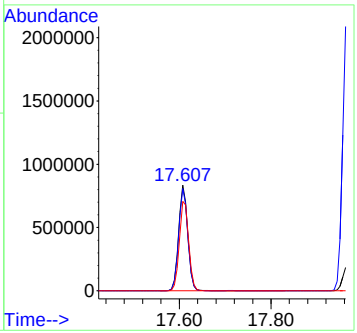


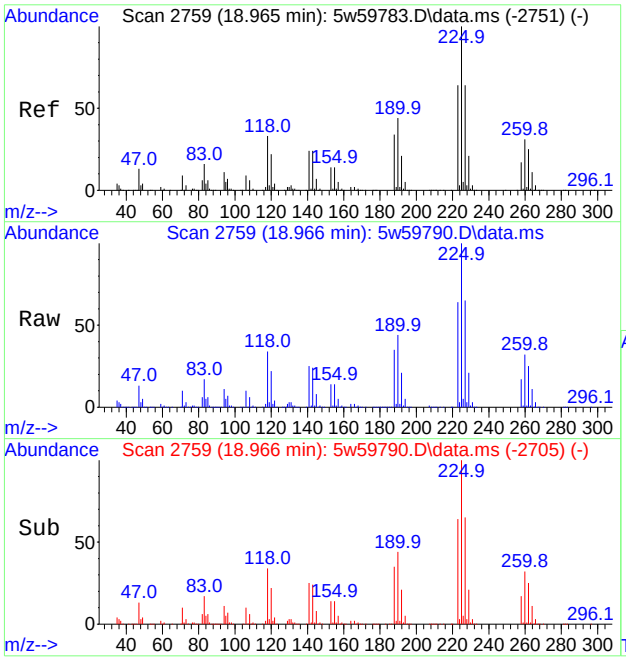


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1153176

Ion	Ratio	Lower	Upper
117	100		
119	96.2	67.2	124.8
201	86.7	61.1	113.5

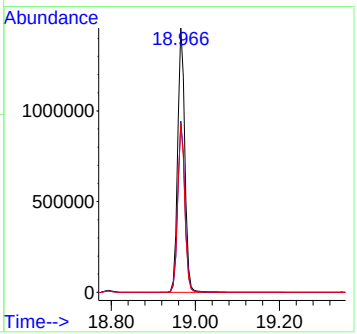


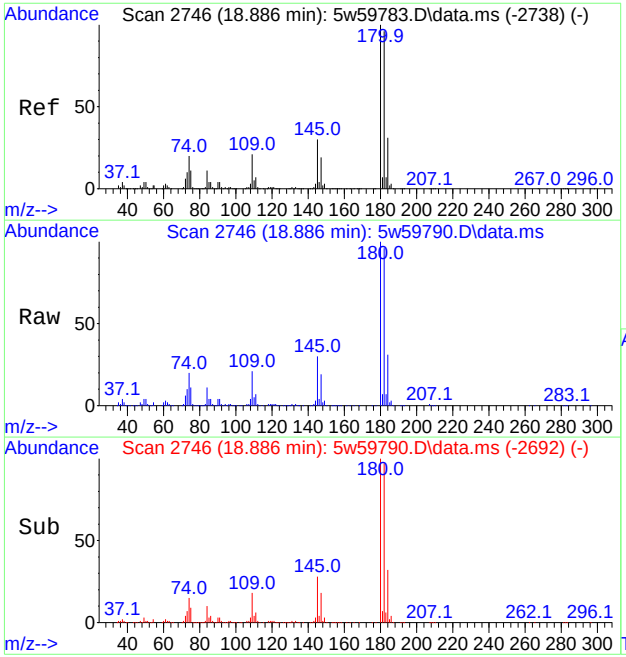


#106
HEXACHLOROBUTADIENE
Concen: 12.11 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:225 Resp: 1732361

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.4	33.3	93.3

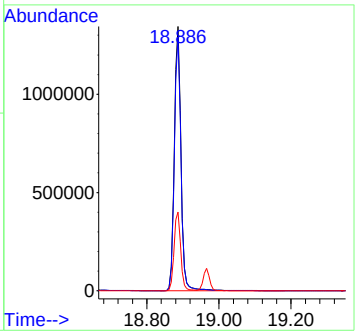


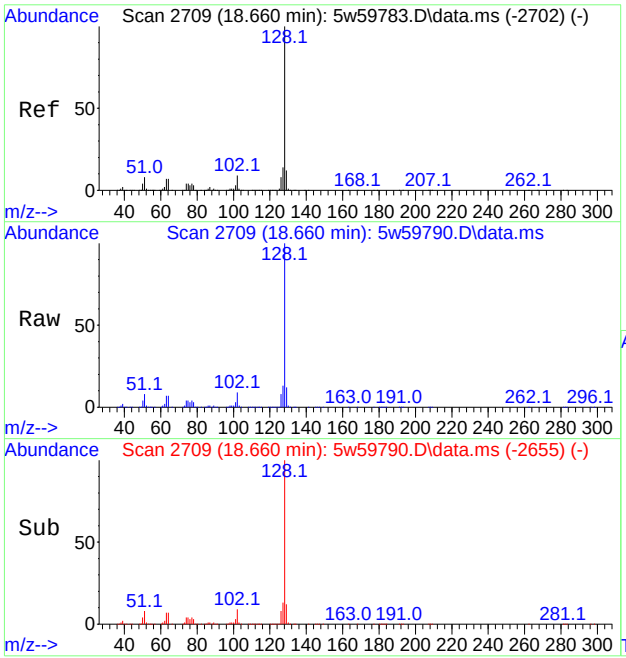


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.05 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:180 Resp: 1717833

Ion	Ratio	Lower	Upper
180	100		
182	95.9	65.4	125.4
145	29.7	0.0	59.4

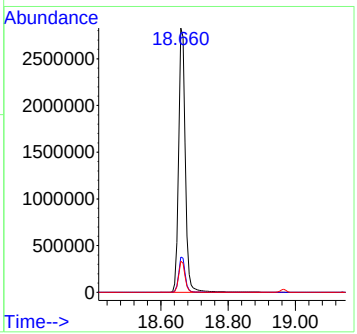


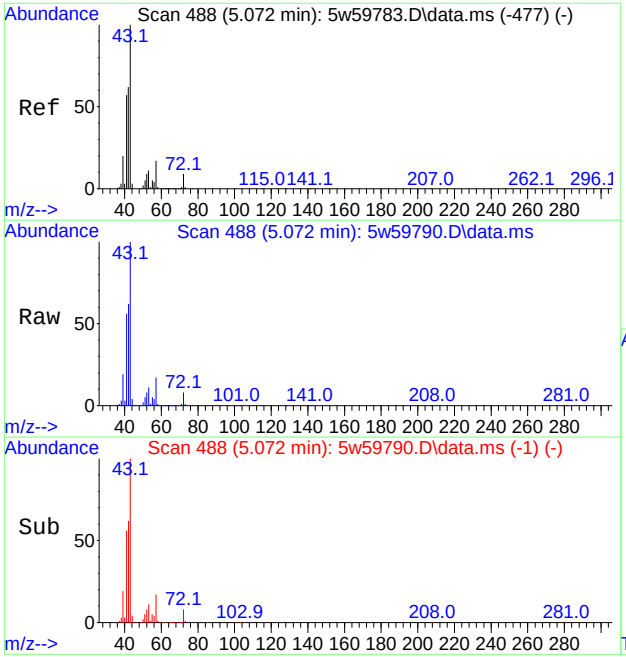


#108
NAPHTHALENE
Concen: 12.54 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:128 Resp: 3898122

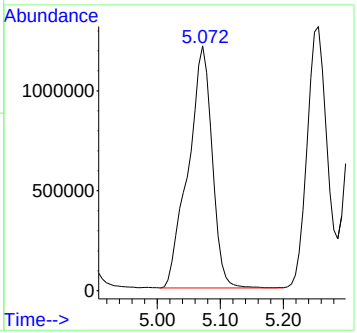
Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	43.3
129	11.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 10.55 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:TIC Resp: 3177953



7.7.11

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	470220	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2049823	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1097928	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	470220	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1392885	10.15	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.50%			
Target Compounds						Qvalue
2) FREON 115	3.371	119	326866	10.1459	PPBV	99
3) FREON 152A	3.445	65	308096	8.8346	PPBV	97
4) CHLORODIFLUOROMETHANE	3.475	67	159233	10.9155	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	818335	11.2032	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.549	85	1510102	11.2218	PPBV	98
7) PROPYLENE	3.500	41	319179	8.8431	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1145136	10.5076	PPBV	97
9) FREON 114	3.732	85	1491348	12.1231	PPBV	98
10) CHLOROMETHANE	3.665	52	137482	9.3028	PPBV	99
11) VINYL CHLORIDE	3.818	62	481278	10.5650	PPBV	99
12) 1,3-BUTADIENE	3.910	54	283401	10.3340	PPBV	98
13) n-BUTANE	3.946	43	441343	9.8480	PPBV	98
14) BROMOMETHANE	4.106	94	546023	11.2707	PPBV	100
15) CHLOROETHANE	4.228	64	210971	9.4930	PPBV	98
16) DICHLOROFLUOROMETHANE	4.289	67	1072755	11.0813	PPBV	99
17) ACETONITRILE	4.479	41	247921	9.6837	PPBV	100
18) ACROLEIN	4.570	56	151722	10.4286	PPBV	96
19) FREON 123	4.589	83	1267783	11.3202	PPBV #	71
20) FREON 123A	4.632	117	778337	12.1007	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.791	101	1341181	11.6680	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	834842	9.0540	PPBV	97
23) ACETONE	4.674	58	187128	10.1467	PPBV	90
24) PENTANE	5.072	42	413834	8.6386	PPBV	99
25) IODOMETHANE	5.256	142	1685190	11.7624	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	518986	10.2907	PPBV	92
27) CARBON DISULFIDE	5.672	76	1376641	10.4175	PPBV	98
28) ETHANOL	4.320	45	171992	11.1335	PPBV	99
29) BROMOETHENE	4.479	106	567142	11.8700	PPBV	100
30) ACRYLONITRILE	5.042	52	297460	9.5306	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	451379	9.5667	PPBV	91
32) 3-CHLOROPROPENE	5.519	76	215893	9.5054	PPBV	87
33) FREON 113	5.641	151	951655	11.3406	PPBV	97
34) TRANS-1,2-DICHLOROETHY...	6.241	96	526395	9.9548	PPBV	93
35) TERTIARY BUTYL ALCOHOL	5.378	59	919943	9.7568	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1337117	10.0464	PPBV	97
37) TETRAHYDROFURAN	7.856	72	200962	11.0075	PPBV	91
38) HEXANE	7.379	57	724495	9.6508	PPBV	98
39) VINYL ACETATE	6.565	86	82739	10.8977	PPBV #	70
40) 1,1-DICHLOROETHANE	6.424	63	921820	9.5004	PPBV	99
41) METHYL ETHYL KETONE	6.797	72	211335	11.6357	PPBV #	85
42) cis-1,2-DICHLOROETHYLENE	7.195	96	554718	9.6249	PPBV	95
43) DIISOPROPYL ETHER	7.385	59	226741	11.4869	PPBV	95
44) ETHYL ACETATE	7.415	61	165646	11.9353	PPBV #	1
45) METHYL ACRYLATE	7.403	55	907802	12.2101	PPBV	98
46) CHLOROFORM	7.476	83	1168778	11.1790	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	832763	9.8014	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.406	97	1211580	11.1104	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1349067	11.3900	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	775572	10.6757	PPBV		99
52)	BENZENE	8.853	78	1495903	10.8929	PPBV		98
53)	CYCLOHEXANE	9.104	84	581961	10.6075	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.348	71	291255	10.5057	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	792757	11.3323	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	576732	9.0459	PPBV		99
57)	DIBROMOMETHANE	9.630	174	860591	11.0058	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1100529	11.0454	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1346052	11.0969	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2287516	10.5261	PPBV		99
61)	1,4-DIOXANE	9.899	88	347837	11.1041	PPBV		92
62)	HEPTANE	10.180	43	728662	9.2215	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	501935	11.2148	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	463649	11.4439	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.749	75	999428	10.2319	PPBV		95
66)	TOLUENE	11.716	92	1111812	10.8312	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	888447	10.6183	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	902397	9.7868	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	624758	11.2090	PPBV		100
71)	2-HEXANONE	12.010	58	674815	11.7504	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	901895	11.8904	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	962806	12.8556	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.150	129	1573733	12.1695	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1269369	12.6163	PPBV		100
76)	OCTANE	12.738	43	1053564	10.1020	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1003830	12.1912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1619008	11.8010	PPBV		100
79)	ETHYLBENZENE	13.980	91	2508035	11.9174	PPBV		100
80)	m,p-XYLENE	14.181	106	1924720	23.2075	PPBV		99
81)	o-XYLENE	14.677	106	949484	12.2264	PPBV		100
82)	STYRENE	14.567	104	1494724	12.3322	PPBV		99
83)	NONANE	14.928	43	1096357	10.3927	PPBV		97
84)	BROMOFORM	14.249	173	1685100	13.2101	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1656478	12.2657	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1130272	10.4090	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2741340	11.5284	PPBV		100
89)	BROMOBENZENE	15.374	77	1335269	10.7933	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	750782	11.4000	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	767167	12.0340	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2799486	12.8708	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2378299	11.7612	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1185359	11.8976	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	543620	13.2410	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2520167	13.3550	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1855781	12.8649	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2204108	12.6776	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1844102	11.8897	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	617709	11.8779	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2525370	12.6546	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	778885	13.2130	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1713925	11.8444	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	715520	12.3936	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1003668	10.0858	PPBV		99
106)	HEXACHLOROBUTADIENE	18.965	225	1793051	13.3307	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1773089	13.2234	PPBV		100
108)	NAPHTHALENE	18.660	128	3918365	13.4079	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	2785944	9.7977	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

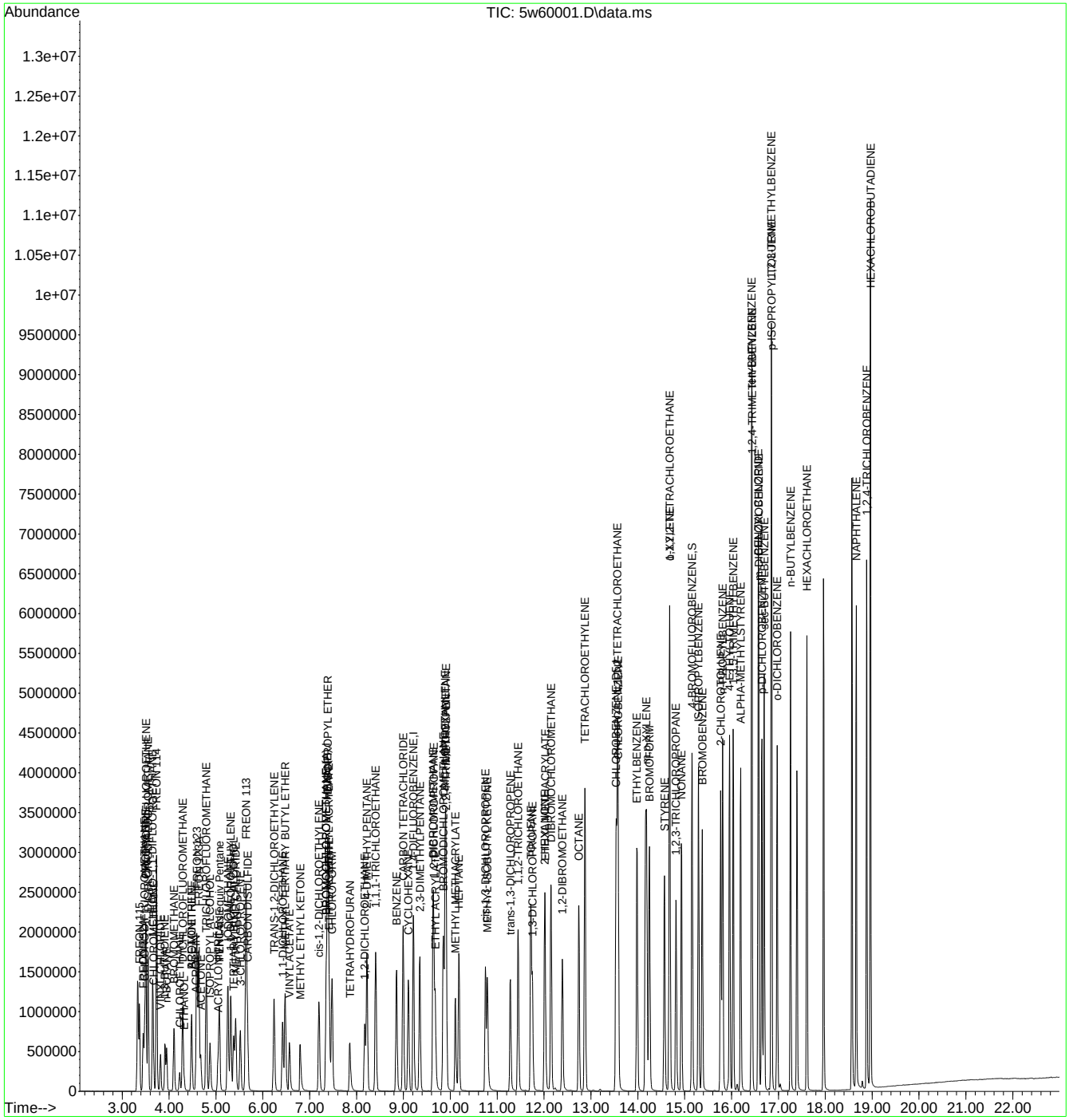
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60033.D
Acq On : 25 Nov 2025 11:25 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:02 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	479901	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2125026	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1123740	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	479901	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1391820	9.91	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.10%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	341898	10.3984	PPBV	98
3) FREON 152A	3.451	65	353272	9.9257	PPBV	95
4) CHLORODIFLUOROMETHANE	3.482	67	173022	11.6215	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	873282	11.7142	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	1652126	12.0295	PPBV	98
7) PROPYLENE	3.500	41	356843	9.6872	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1210854	10.8865	PPBV	97
9) FREON 114	3.739	85	1507733	12.0090	PPBV	99
10) CHLOROMETHANE	3.671	52	142185	9.4269	PPBV	94
11) VINYL CHLORIDE	3.824	62	502868	10.8162	PPBV	99
12) 1,3-BUTADIENE	3.916	54	294293	10.5147	PPBV	97
13) n-BUTANE	3.953	43	484069	10.5835	PPBV	98
14) BROMOMETHANE	4.112	94	574752	11.6244	PPBV	100
15) CHLOROETHANE	4.228	64	229450	10.1162	PPBV	98
16) DICHLOROFLUOROMETHANE	4.295	67	1162359	11.7647	PPBV	99
17) ACETONITRILE	4.485	41	257625	9.8597	PPBV	100
18) ACROLEIN	4.577	56	169230	11.3974	PPBV	98
19) FREON 123	4.595	83	1356633	11.8692	PPBV #	71
20) FREON 123A	4.638	117	798045	12.1568	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.797	101	1445936	12.3256	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	919831	9.7744	PPBV	97
23) ACETONE	4.675	58	209348	11.1226	PPBV	87
24) PENTANE	5.078	42	462352	9.4567	PPBV	99
25) IODOMETHANE	5.256	142	1722863	11.7828	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	544689	10.5825	PPBV	96
27) CARBON DISULFIDE	5.678	76	1513140	11.2195	PPBV	97
28) ETHANOL	4.320	45	185770	11.7828	PPBV	100
29) BROMOETHENE	4.485	106	578981	11.8733	PPBV	99
30) ACRYLONITRILE	5.048	52	330135	10.3641	PPBV	100
31) METHYLENE CHLORIDE	5.427	84	487310	10.1199	PPBV	92
32) 3-CHLOROPROPENE	5.525	76	236546	10.2046	PPBV	85
33) FREON 113	5.641	151	957758	11.1831	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	556254	10.3073	PPBV	96
35) TERTIARY BUTYL ALCOHOL	5.384	59	988459	10.2720	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.479	73	1400307	10.3089	PPBV	98
37) TETRAHYDROFURAN	7.856	72	217401	11.6677	PPBV	88
38) HEXANE	7.379	57	792063	10.3380	PPBV	96
39) VINYL ACETATE	6.571	86	89804	11.5897	PPBV #	72
40) 1,1-DICHLOROETHANE	6.424	63	1011520	10.2146	PPBV	100
41) METHYL ETHYL KETONE	6.798	72	234321	12.6410	PPBV #	82
42) cis-1,2-DICHLOROETHYLENE	7.201	96	591193	10.0508	PPBV	97
43) DIISOPROPYL ETHER	7.391	59	248972	12.3587	PPBV #	90
44) ETHYL ACETATE	7.422	61	180822	12.7660	PPBV #	1
45) METHYL ACRYLATE	7.403	55	986217	12.9972	PPBV	98
46) CHLOROFORM	7.477	83	1220240	11.4358	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	895040	10.3219	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1225789	11.0139	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60033.D
Acq On : 25 Nov 2025 11:25 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:02 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1342223	11.1036	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	797994	10.7627	PPBV		100
52)	BENZENE	8.853	78	1601839	11.2515	PPBV		98
53)	CYCLOHEXANE	9.104	84	629951	11.0758	PPBV		95
54)	2,3-DIMETHYLPENTANE	9.349	71	312507	10.8734	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	821453	11.3270	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	641366	9.7037	PPBV		99
57)	DIBROMOMETHANE	9.630	174	849923	10.4847	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	1186374	11.4856	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1416671	11.2658	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2501782	11.1046	PPBV		99
61)	1,4-DIOXANE	9.899	88	368467	11.3464	PPBV	#	90
62)	HEPTANE	10.181	43	775222	9.4635	PPBV		94
63)	METHYL METHACRYLATE	10.107	69	529399	11.4098	PPBV		91
64)	METHYL ISOBUTYL KETONE	10.792	58	501825	11.9479	PPBV		93
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1047382	10.3434	PPBV		94
66)	TOLUENE	11.716	92	1168236	10.9781	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	951184	10.9658	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	934601	9.7774	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	659789	11.4186	PPBV		99
71)	2-HEXANONE	12.010	58	721895	12.2814	PPBV		94
72)	ETHYL METHACRYLATE	12.022	69	953016	12.2758	PPBV		94
73)	TETRACHLOROETHYLENE	12.872	164	946365	12.3458	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.144	129	1563247	11.8107	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1286438	12.4923	PPBV		100
76)	OCTANE	12.738	43	1107746	10.3776	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1013751	12.0289	PPBV		98
78)	CHLOROBENZENE	13.582	112	1654863	11.7853	PPBV		99
79)	ETHYLBENZENE	13.980	91	2607846	12.1070	PPBV		100
80)	m,p-XYLENE	14.182	106	1967278	23.1758	PPBV		100
81)	o-XYLENE	14.677	106	988760	12.4396	PPBV		100
82)	STYRENE	14.567	104	1531747	12.3474	PPBV		99
83)	NONANE	14.928	43	1165388	10.7933	PPBV		96
84)	BROMOFORM	14.249	173	1676819	12.8432	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1777725	12.8612	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1196610	10.7668	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2850418	11.7118	PPBV		100
89)	BROMOBENZENE	15.375	77	1397563	11.0374	PPBV		100
90)	2-CHLOROTOLUENE	15.766	126	756653	11.2253	PPBV		99
91)	n-PROPYLBENZENE	15.809	120	793269	12.1576	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2875426	12.9163	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2392930	11.5618	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1218116	11.9455	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	529372	12.5978	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2531334	13.1060	PPBV		98
97)	m-DICHLOROBENZENE	16.574	146	1883918	12.7599	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2394779	13.4580	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	1918277	12.0838	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	662033	12.4378	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2576957	12.6165	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	778178	12.8978	PPBV		98
103)	o-DICHLOROBENZENE	16.971	146	1775724	11.9896	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	741534	12.5492	PPBV		96
105)	HEXACHLOROETHANE	17.607	117	1201763	11.7991	PPBV		98
106)	HEXACHLOROBUTADIENE	18.966	225	1775448	12.8967	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1786357	13.0164	PPBV		100
108)	NAPHTHALENE	18.660	128	4042015	13.5134	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	3089815	10.6472	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60033.D
Acq On : 25 Nov 2025 11:25 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:02 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

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

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

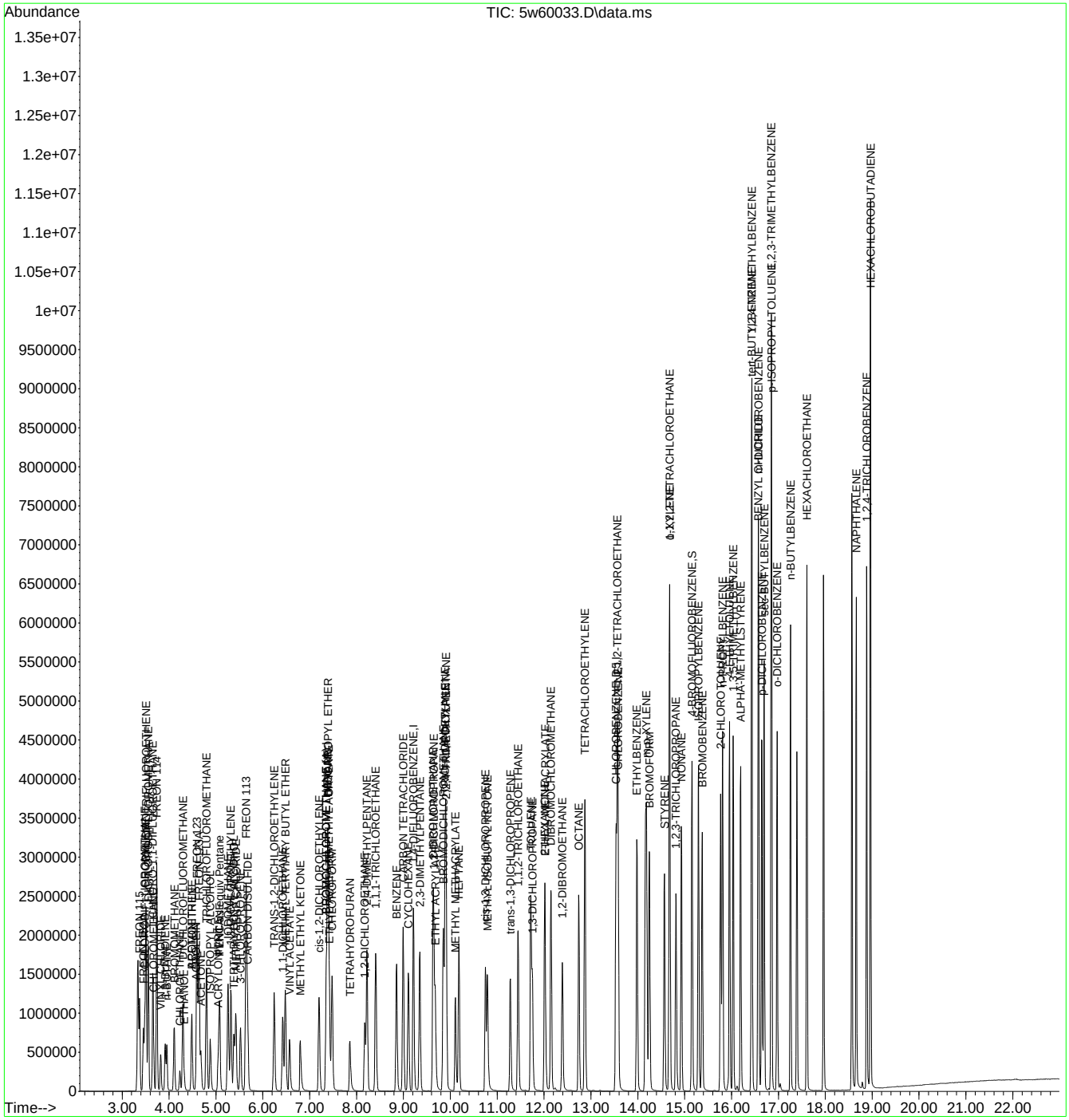
7.7.13

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60033.D
Acq On : 25 Nov 2025 11:25 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:02 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	114117	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	582166	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	538138	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	114117	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	427692	9.77	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	571	0.04	PPBV		82
3) FREON 152A	1.602	65	357	0.05	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	127	0.04	PPBV	#	79
5) CHLOROTRIFLUOROETHENE	1.631	116	598	0.04	PPBV		77
6) DICHLORODIFLUOROMETHANE	1.647	85	1176m	0.03	PPBV		
7) PROPYLENE	1.628	41	518	0.06	PPBV	#	80
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1089	0.04	PPBV		93
9) FREON 114	1.714	85	1188	0.04	PPBV		81
10) CHLOROMETHANE	1.689	52	220	0.06	PPBV		60
11) VINYL CHLORIDE	1.747	62	679	0.05	PPBV	#	92
12) 1,3-BUTADIENE	1.785	54	573	0.05	PPBV	#	62
14) BROMOMETHANE	1.859	94	558	0.05	PPBV	#	95
15) CHLOROETHANE	1.907	64	393	0.05	PPBV		91
16) DICHLOROFLUOROMETHANE	1.930	67	1164	0.04	PPBV	#	56
17) ACETONITRILE	2.001	41	762	0.06	PPBV	#	43
19) FREON 123	2.049	83	1179	0.04	PPBV		97
20) FREON 123A	2.062	117	787	0.05	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.129	101	1269	0.04	PPBV	#	98
24) PENTANE	2.239	42	777	0.06	PPBV	#	82
25) IODOMETHANE	2.300	142	1191	0.04	PPBV		93
26) 1,1-DICHLOROETHYLENE	2.332	96	522	0.04	PPBV	#	59
27) CARBON DISULFIDE	2.460	76	1446	0.04	PPBV	#	4
29) BROMOETHENE	2.001	106	466	0.04	PPBV	#	94
32) 3-CHLOROPROPENE	2.409	76	263	0.04	PPBV	#	64
33) FREON 113	2.460	151	709	0.04	PPBV		83
34) TRANS-1,2-DICHLOROETHENE	2.685	96	555	0.04	PPBV	#	58
35) TERTIARY BUTYL ALCOHOL	2.348	59	1458	0.05	PPBV	#	71
36) METHYL TERTIARY BUTYL ...	2.795	73	1635	0.04	PPBV	#	50
37) TETRAHYDROFURAN	3.499	72	205	0.03	PPBV	#	48
38) HEXANE	3.242	57	1163	0.05	PPBV		87
39) VINYL ACETATE	2.833	86	161	0.05	PPBV	#	13
40) 1,1-DICHLOROETHANE	2.759	63	1028	0.04	PPBV		99
41) METHYL ETHYL KETONE	2.930	72	323	0.05	PPBV	#	25
42) CIS-1,2-DICHLOROETHENE	3.116	96	586	0.04	PPBV		81
43) DIISOPROPYL ETHER	3.245	59	314	0.05	PPBV		88
44) ETHYL ACETATE	3.251	61	203	0.04	PPBV	#	97
45) METHYL ACRYLATE	3.242	55	1383	0.05	PPBV	#	86
46) CHLOROFORM	3.261	83	1053	0.04	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	3.740	57	1228	0.04	PPBV	#	92
48) 1,1,1-TRICHLOROETHANE	3.820	97	1132	0.04	PPBV		92
49) CARBON TETRACHLORIDE	4.235	117	1061	0.04	PPBV		88
50) 1,2-DICHLOROETHANE	3.656	62	712	0.03	PPBV	#	93
51) BENZENE	4.132	78	1781	0.05	PPBV		94
53) CYCLOHEXANE	4.332	84	700	0.04	PPBV	#	56
54) 2,3-DIMETHYLPENTANE	4.586	71	330	0.04	PPBV	#	6
55) TRICHLOROETHENE	5.013	95	741	0.04	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	703	0.04	PPBV	#	77
57) DIBROMOMETHANE	4.740	174	802	0.05	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

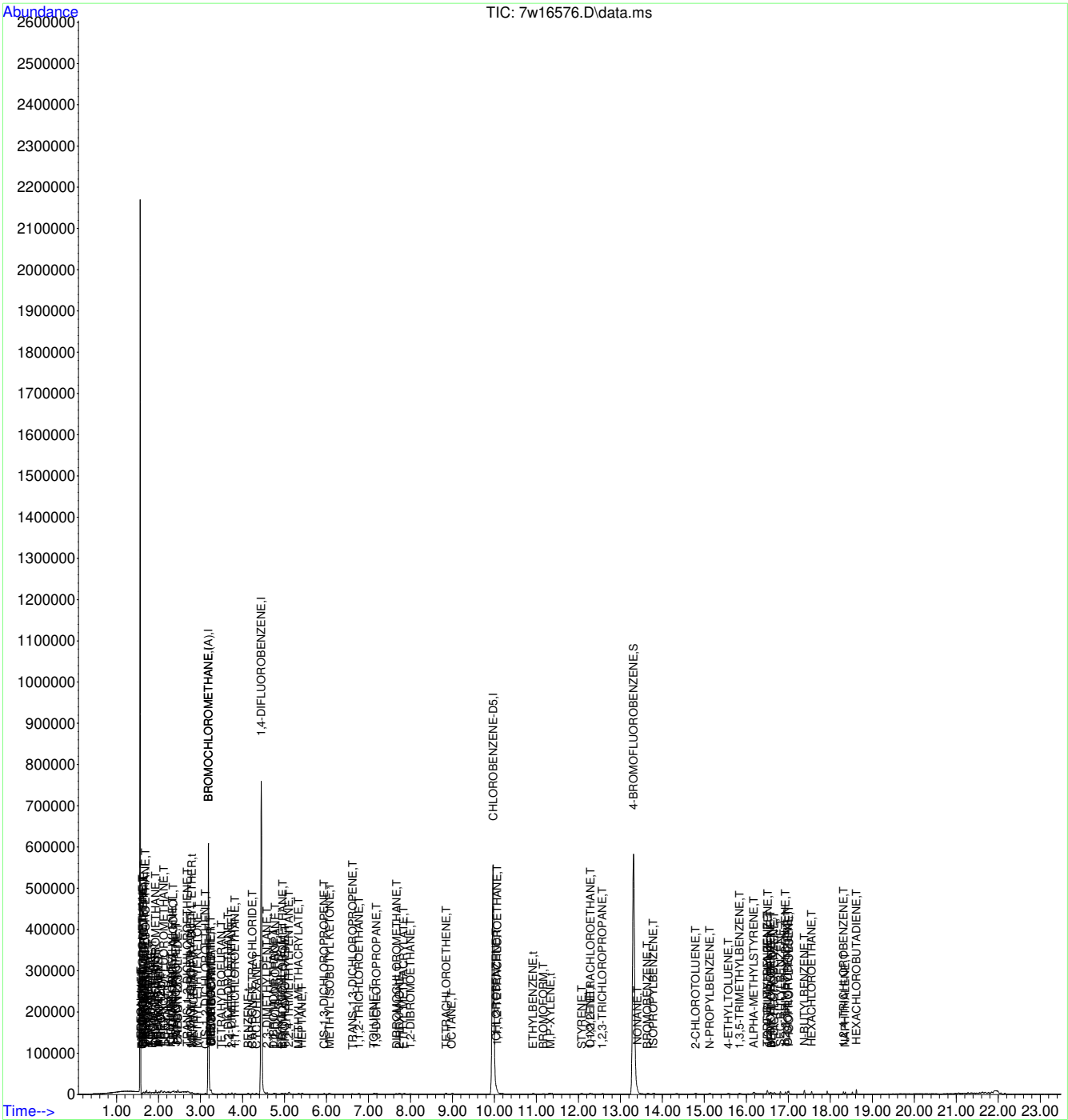
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	4.920	55	1547	0.04	PPBV	#	87
59) BROMODICHLOROMETHANE	4.959	83	1145	0.04	PPBV		97
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	3683	0.05	PPBV	#	90
62) HEPTANE	5.418	43	1262	0.05	PPBV		89
63) METHYL METHACRYLATE	5.332	69	659	0.04	PPBV	#	71
64) METHYL ISOBUTYL KETONE	6.074	58	776	0.05	PPBV	#	93
65) CIS-1,3-DICHLOROPROPENE	5.939	75	908	0.03	PPBV		89
66) TOLUENE	7.129	91	1961	0.04	PPBV		94
67) 1,3-DICHLOROPROPANE	7.187	76	917	0.04	PPBV	#	90
68) TRANS-1,3-DICHLOROPROPENE	6.624	75	685	0.03	PPBV	#	73
69) 1,1,2-TRICHLOROETHANE	6.775	83	432	0.03	PPBV		88
70) 2-HEXANONE	7.733	58	1334	0.06	PPBV	#	1
71) ETHYL METHACRYLATE	7.836	69	991	0.04	PPBV	#	33
72) TETRACHLOROETHENE	8.852	164	707	0.04	PPBV	#	62
73) DIBROMOCHLOROMETHANE	7.669	129	938	0.03	PPBV	#	21
74) 1,2-DIBROMOETHANE	8.004	107	998	0.04	PPBV	#	98
75) OCTANE	8.981	43	1632	0.04	PPBV	#	30
77) 1,1,1,2-TETRACHLOROETHANE	10.065	131	804	0.04	PPBV		100
78) CHLOROBENZENE	10.039	112	1584	0.04	PPBV	#	75
79) ETHYLBENZENE	10.917	91	2610	0.04	PPBV		87
80) M,P-XYLENE	11.335	91	4291	0.08	PPBV		90
81) O-XYLENE	12.280	91	2009	0.04	PPBV	#	64
82) STYRENE	12.077	104	1372	0.04	PPBV		94
83) NONANE	13.408	43	1708	0.04	PPBV	#	21
84) BROMOFORM	11.164	173	746	0.03	PPBV	#	92
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	1386	0.04	PPBV	#	91
86) 1,2,3-TRICHLOROPROPANE	12.566	75	1086	0.04	PPBV	#	99
88) ISOPROPYLBENZENE	13.778	120	720	0.04	PPBV		100
89) BROMOBENZENE	13.643	77	1476	0.04	PPBV	#	72
90) 2-CHLOROTOLUENE	14.788	126	652	0.04	PPBV	#	66
91) N-PROPYLBENZENE	15.125	120	688	0.03	PPBV	#	64
92) 4-ETHYLTOLUENE	15.569	105	2796	0.04	PPBV	#	93
93) 1,3,5-TRIMETHYLBENZENE	15.842	105	2434	0.04	PPBV		88
94) ALPHA-METHYLSTYRENE	16.180	118	1042	0.03	PPBV		91
95) TERT-BUTYLBENZENE	16.495	134	685	0.05	PPBV		91
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	2331	0.04	PPBV		91
97) BENZYL CHLORIDE	16.601	91	1503	0.03	PPBV		89
98) M-DICHLOROBENZENE	16.572	146	1758	0.04	PPBV		98
99) P-DICHLOROBENZENE	16.666	146	1701	0.04	PPBV		93
100) O-DICHLOROBENZENE	16.987	146	1470	0.04	PPBV		92
101) SEC-BUTYLBENZENE	16.810	134	660	0.04	PPBV		63
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	2483	0.04	PPBV		94
103) P-ISOPROPYLTOLUENE	17.013	134	767	0.04	PPBV		86
104) N-BUTYLBENZENE	17.376	134	703	0.04	PPBV		66
105) HEXACHLOROETHANE	17.556	117	895	0.04	PPBV		97
106) HEXACHLOROBUTADIENE	18.620	225	1203	0.04	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.312	180	1219	0.03	PPBV		94
108) NAPHTHALENE	18.357	128	2545	0.03	PPBV		94

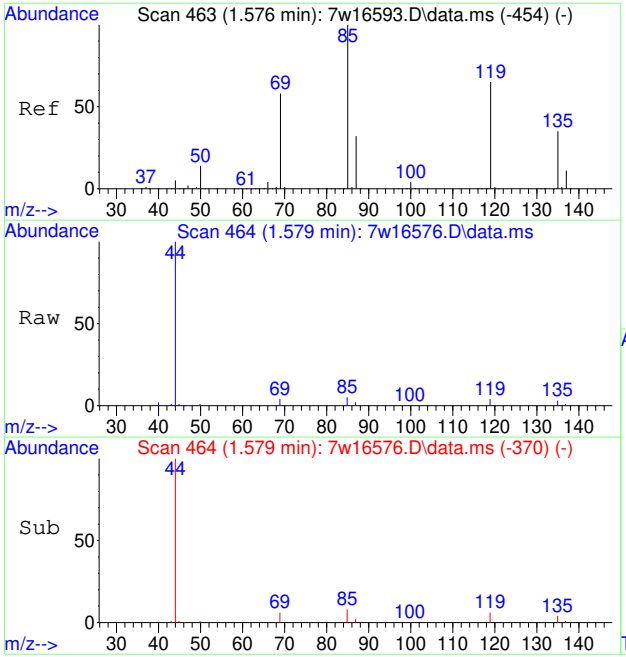
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

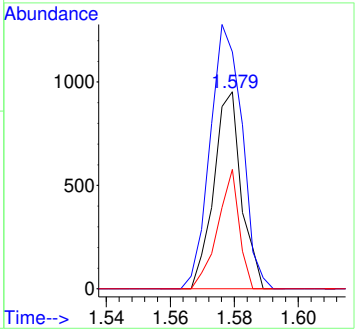


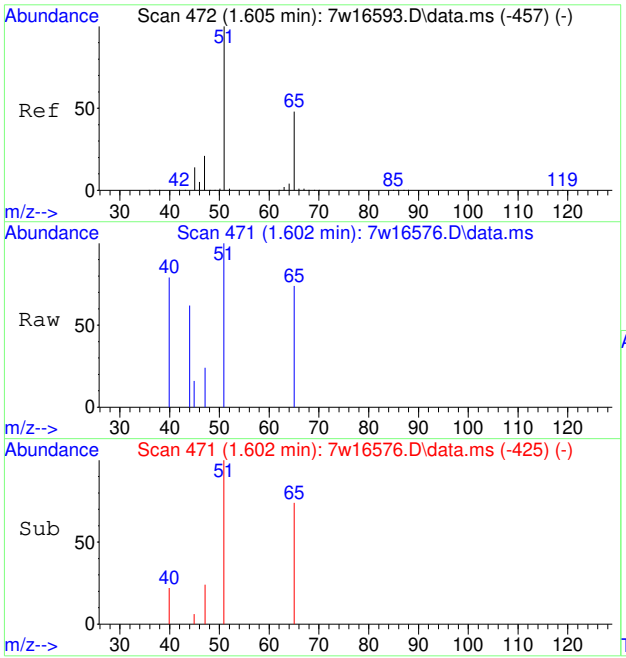


#2
FREON 115
Concen: 0.04 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:119 Resp: 571

Ion	Ratio	Lower	Upper
119	100		
85	155.3	90.9	168.7
135	47.3	38.2	71.0

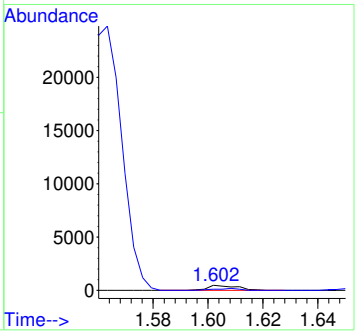


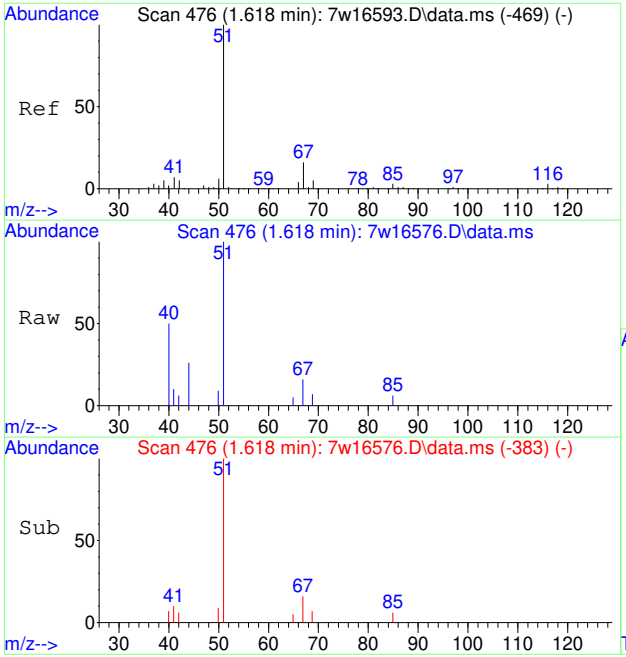


#3
FREON 152A
Concen: 0.05 PPBV
RT: 1.602 min Scan# 471
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 357

Ion	Ratio	Lower	Upper
65	100		
45	30.5	20.6	38.4

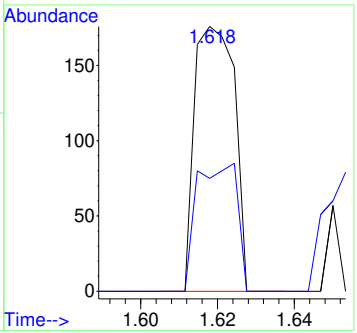


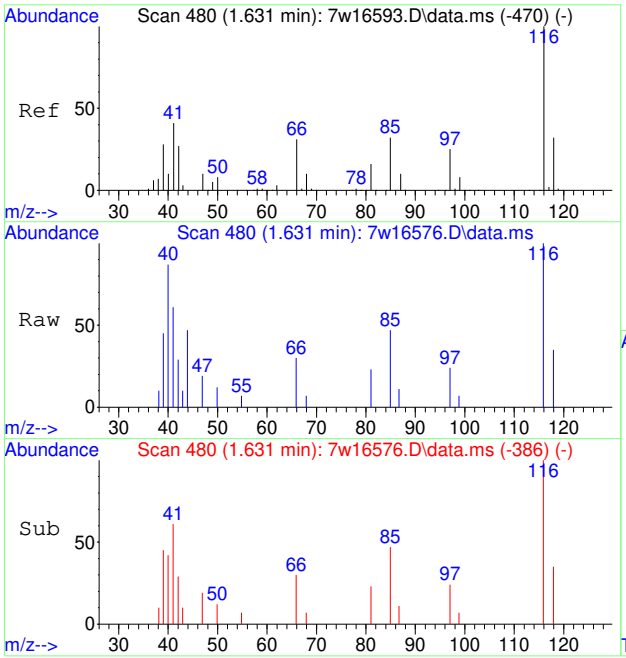


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 127

Ion	Ratio	Lower	Upper
67	100		
69	48.8	25.4	47.2#

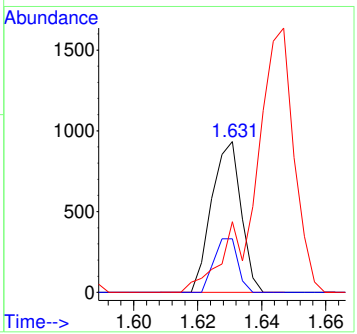


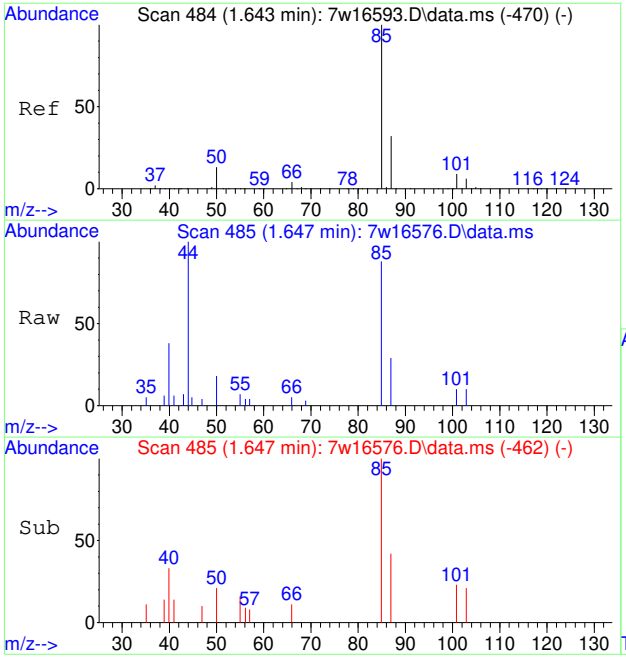


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:116 Resp: 598

Ion	Ratio	Lower	Upper
116	100		
118	28.9	22.7	42.1
85	232.1	194.7	361.7

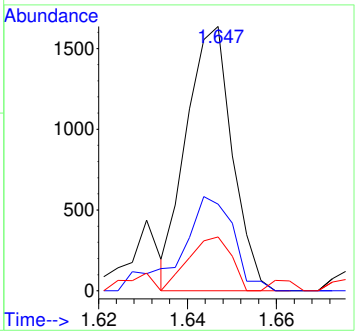


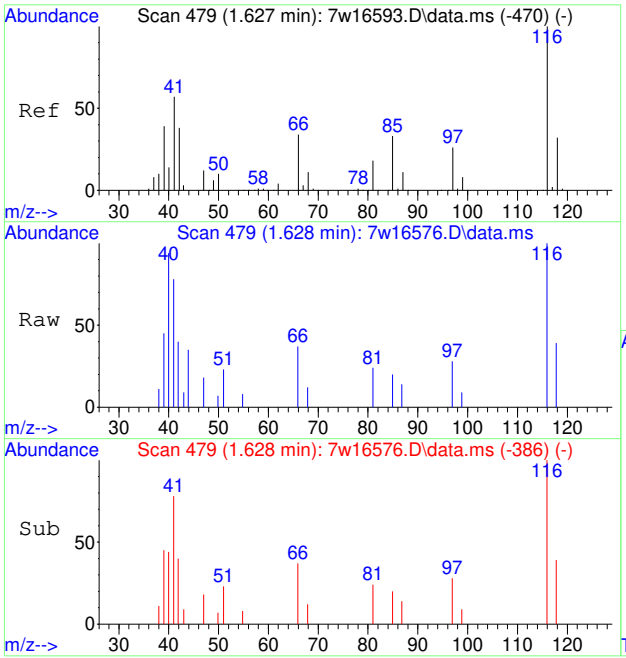


#6
DICHLORODIFLUOROMETHANE
Concen: 0.03 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1176

Ion	Ratio	Lower	Upper
85	100		
87	40.9	23.1	42.9
50	27.6	12.1	22.5#

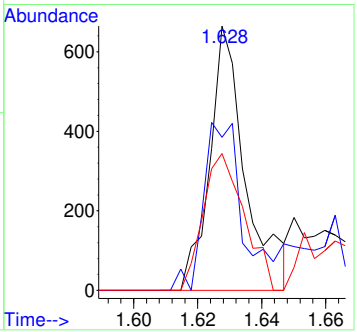


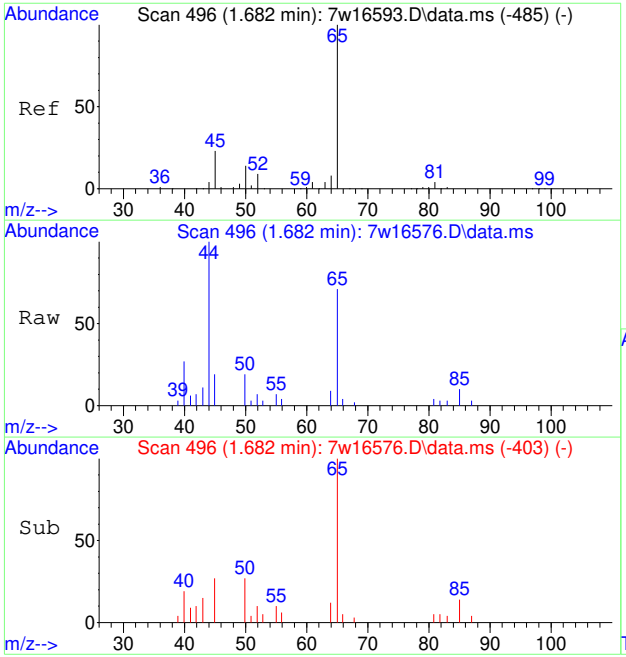


#7
PROPYLENE
Concen: 0.06 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 518

Ion	Ratio	Lower	Upper
41	100		
39	98.5	51.0	94.8#
42	59.3	46.6	86.6

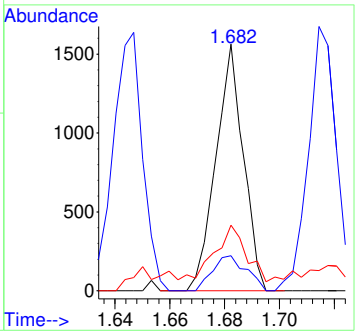


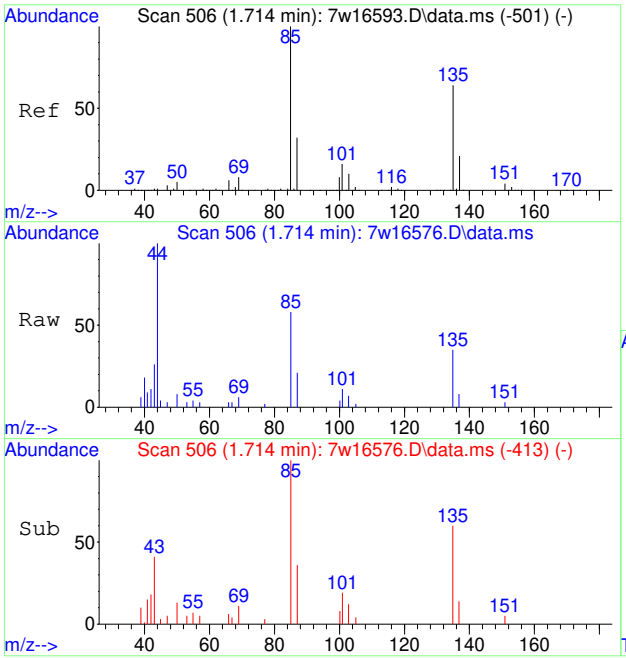


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.04 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 1089

Ion	Ratio	Lower	Upper
65	100		
85	17.5	9.7	17.9
45	27.3	17.0	31.6

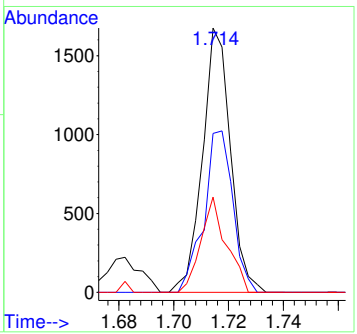


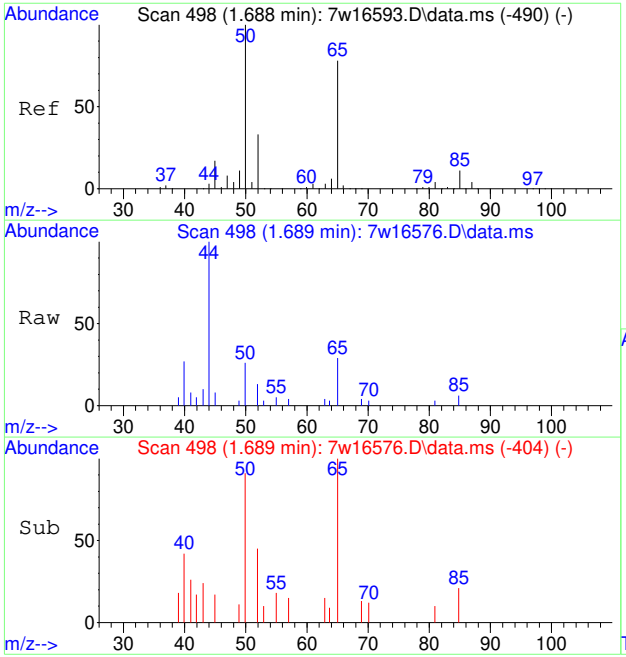


#9
FREON 114
Concen: 0.04 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1188

Ion	Ratio	Lower	Upper
85	100		
135	63.0	61.3	113.9
87	32.9	23.2	43.0

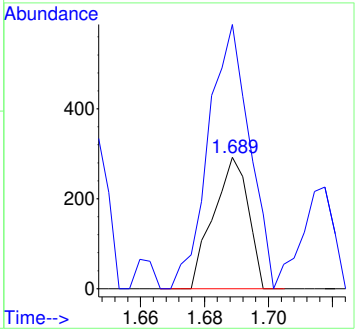


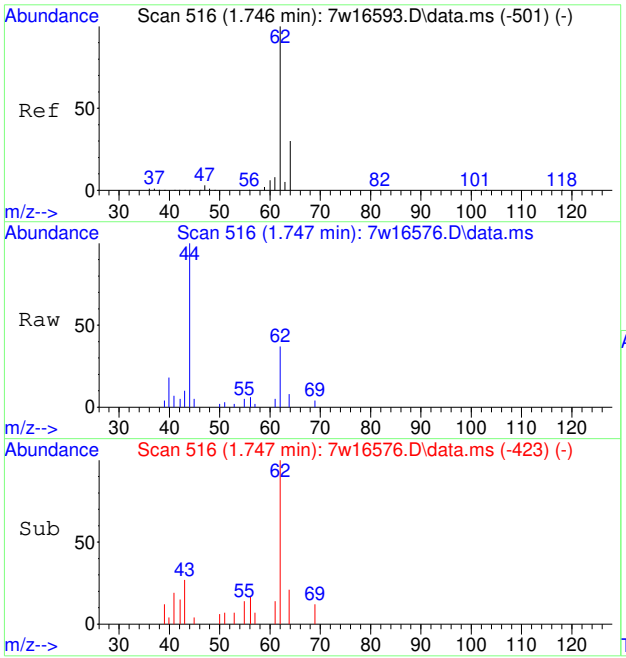


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 52 Resp: 220

Ion	Ratio	Lower	Upper
52	100		
50	242.3	227.6	422.6

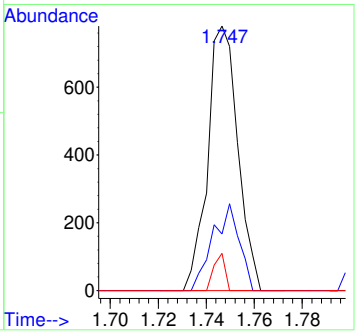


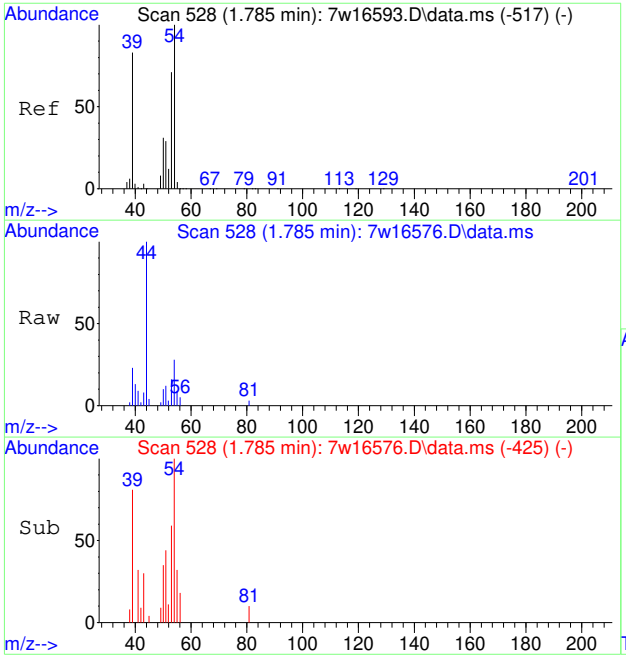


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 679

Ion	Ratio	Lower	Upper
62	100		
64	28.9	21.6	40.2
61	0.0	5.7	10.7#

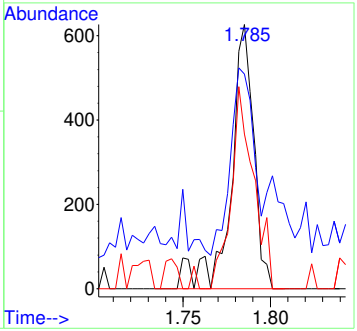


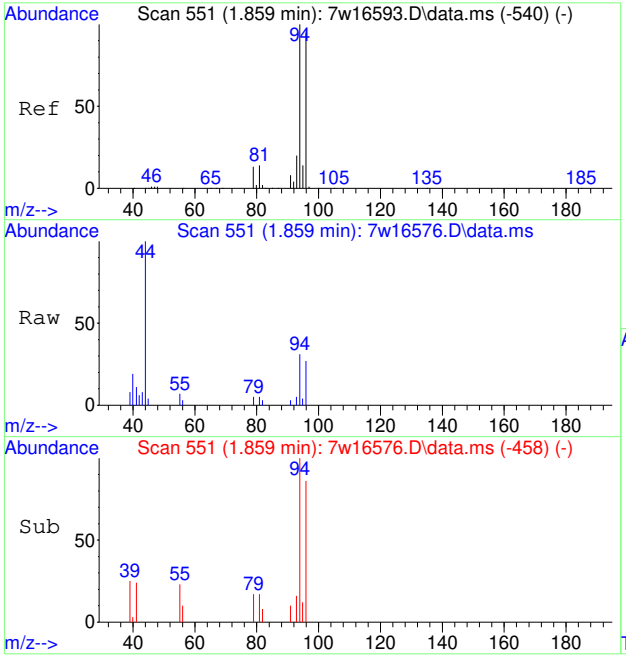


#12
1,3-BUTADIENE
Concen: 0.05 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 54 Resp: 573

Ion	Ratio	Lower	Upper
54	100		
39	88.8	125.6	185.6#
53	76.8	40.7	100.7

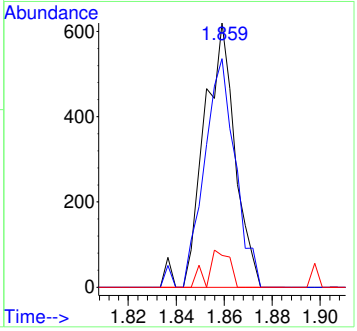


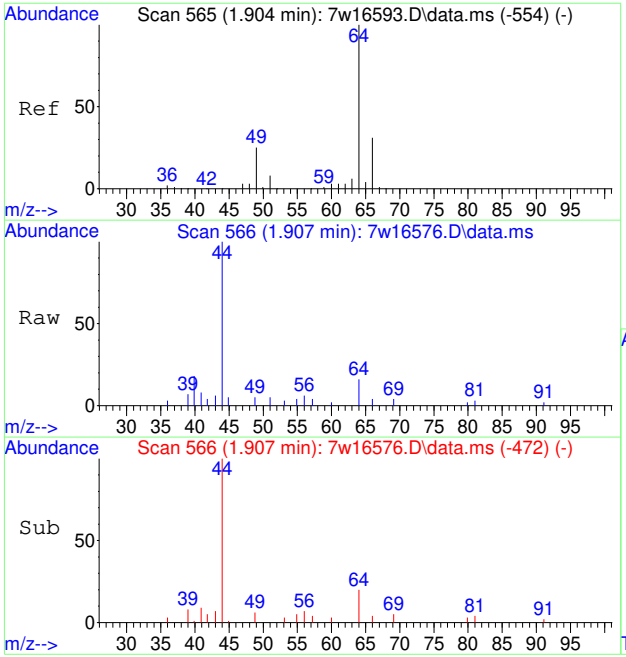


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 94 Resp: 558

Ion	Ratio	Lower	Upper
94	100		
96	87.3	63.6	118.0
95	9.9	10.0	18.6#

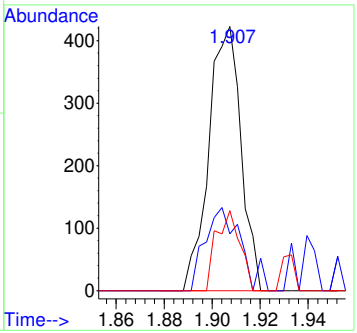


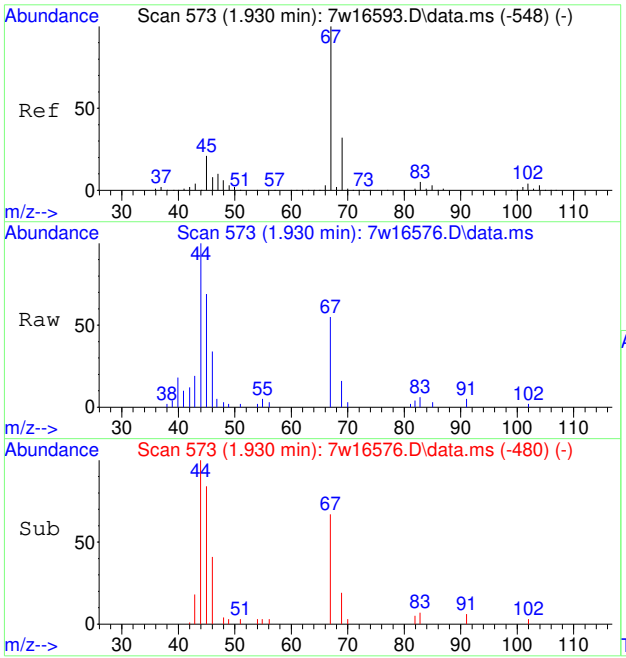


#15
CHLOROETHANE
Concen: 0.05 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 64 Resp: 393

Ion	Ratio	Lower	Upper
64	100		
66	34.9	23.0	42.6
49	22.4	21.5	39.9

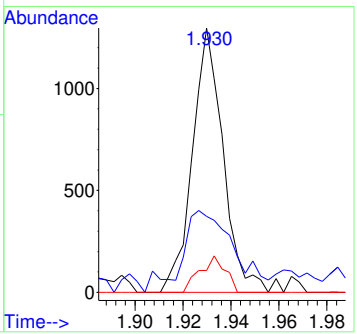


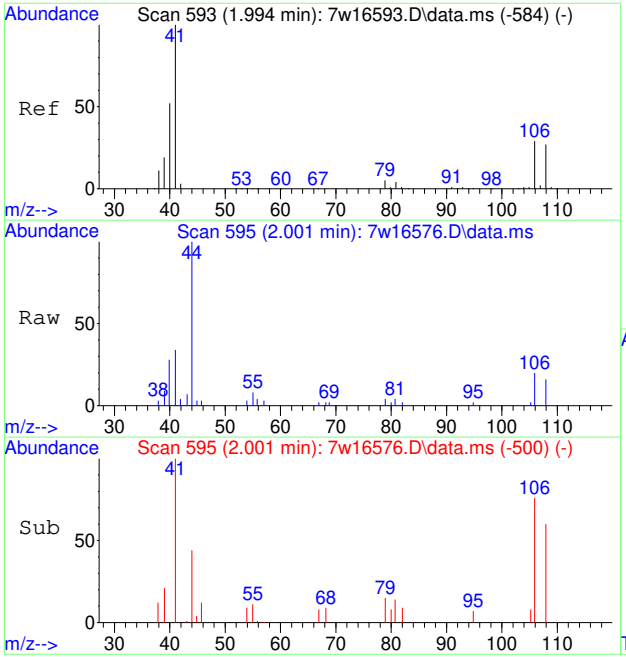


#16
DICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 1164

Ion	Ratio	Lower	Upper
67	100		
69	67.2	23.2	43.0#
47	11.3	9.6	17.8

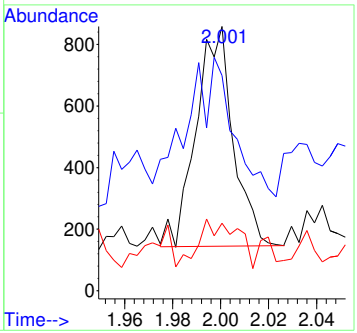


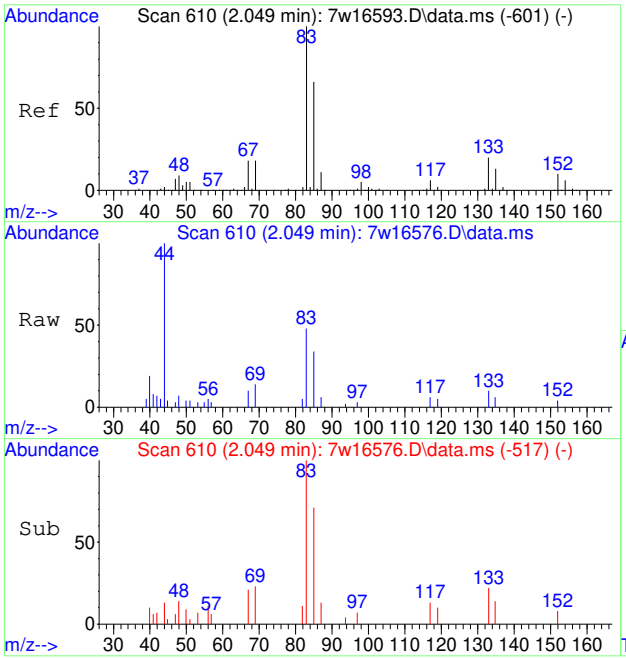


#17
ACETONITRILE
Concen: 0.06 PPBV
RT: 2.001 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 762

Ion	Ratio	Lower	Upper
41	100		
40	110.5	38.4	71.4#
39	23.4	14.5	26.9

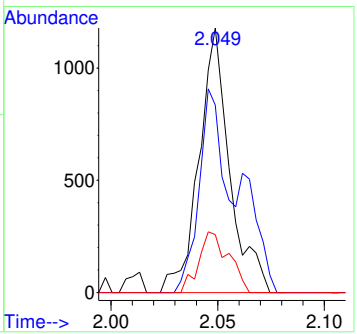


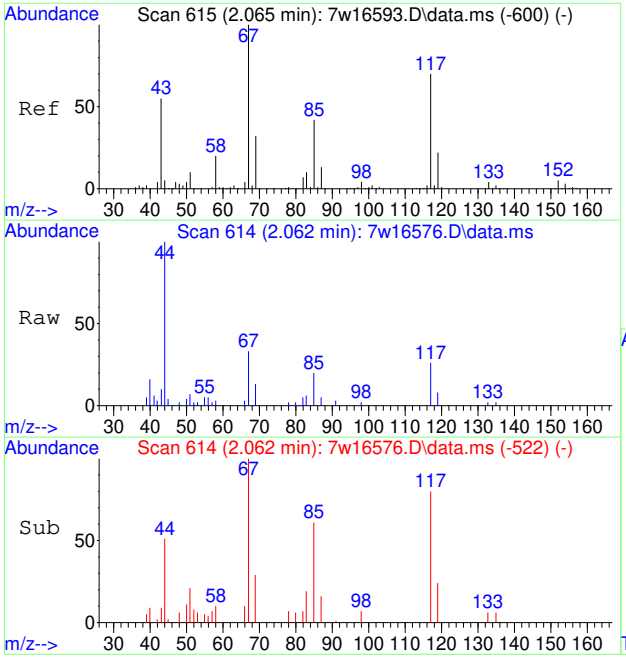


#19
FREON 123
Concen: 0.04 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1179

Ion	Ratio	Lower	Upper
83	100		
85	94.0	65.7	121.9
133	22.4	19.9	36.9

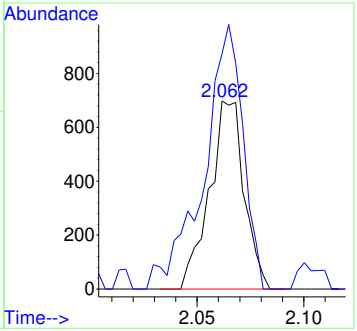


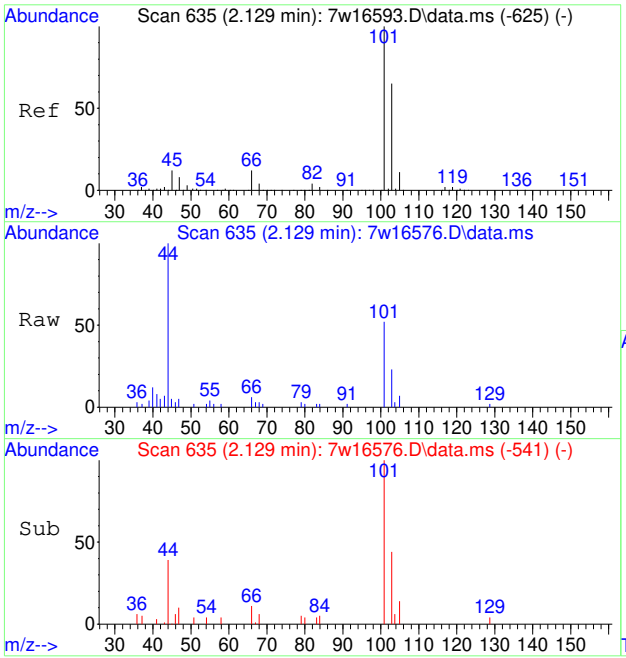


#20
FREON 123A
Concen: 0.05 PPBV
RT: 2.062 min Scan# 614
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 787

Ion	Ratio	Lower	Upper
117	100		
67	158.8	78.8	146.4#

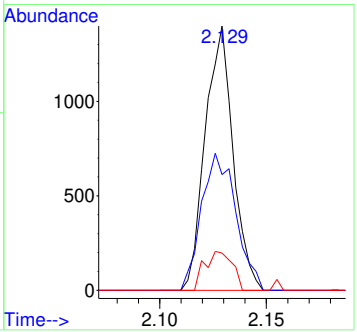


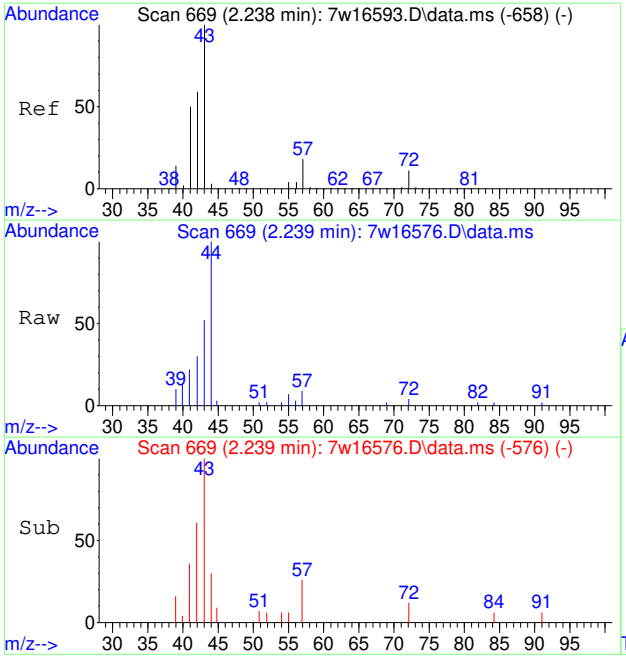


#21
TRICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:101 Resp: 1269

Ion	Ratio	Lower	Upper
101	100		
103	64.0	44.3	82.3
105	14.7	7.3	13.7#

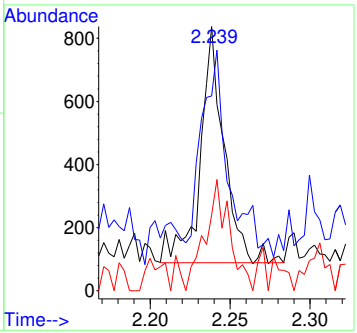


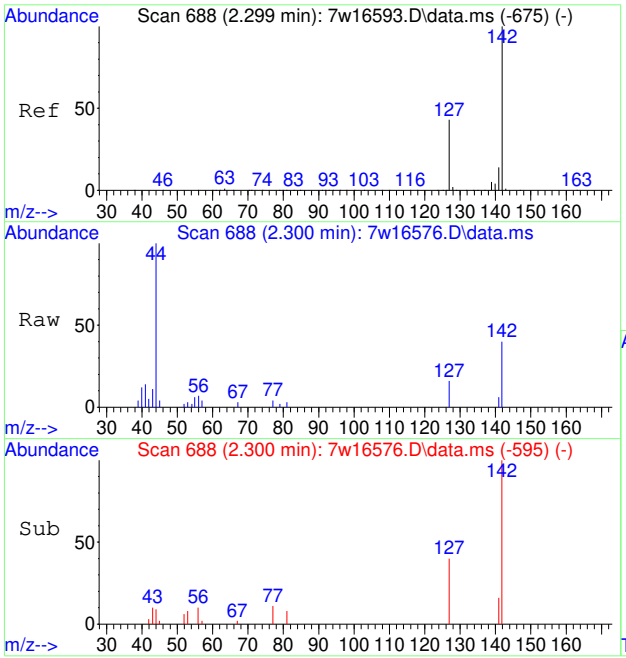


#24
PENTANE
Concen: 0.06 PPBV
RT: 2.239 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 42 Resp: 777

Ion	Ratio	Lower	Upper
42	100		
41	109.0	69.2	128.6
57	51.7	18.6	34.6#

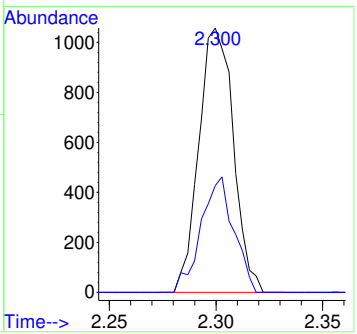


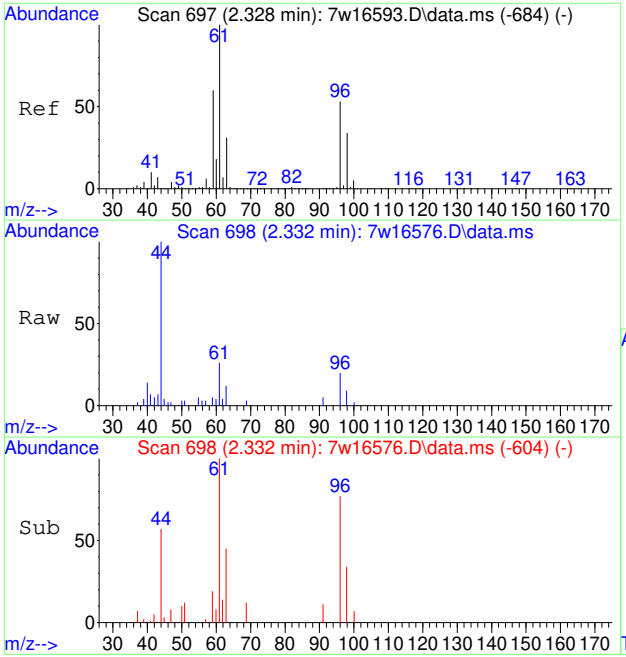


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:142 Resp: 1191

Ion	Ratio	Lower	Upper
142	100		
127	41.4	32.1	59.7

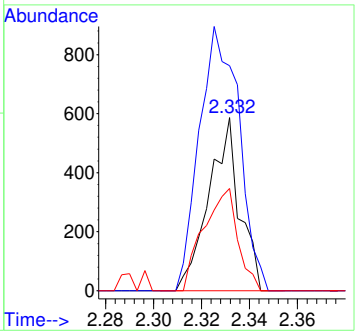


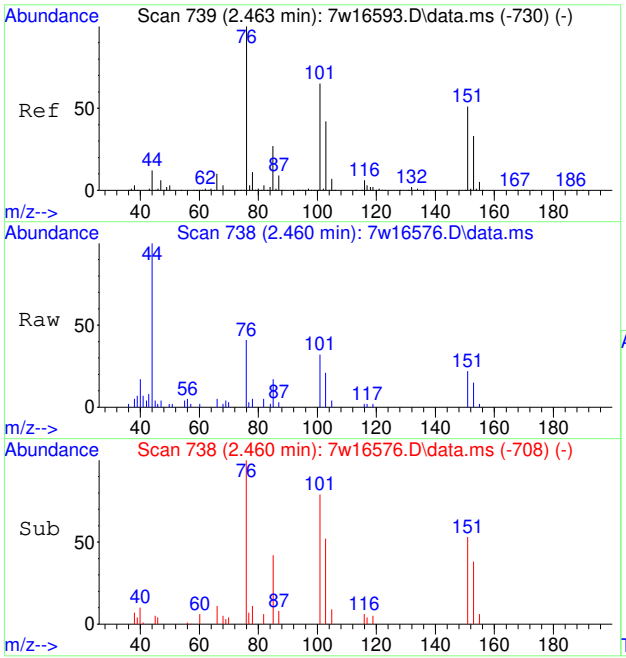


#26
1,1-DICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 2.332 min Scan# 698
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 522

Ion	Ratio	Lower	Upper
96	100		
61	196.4	98.3	182.5#
63	65.7	33.2	61.7#

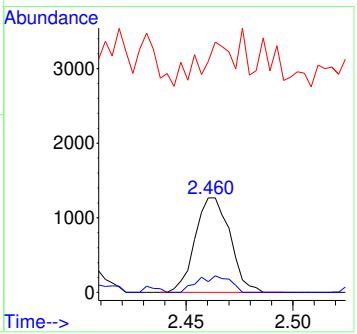


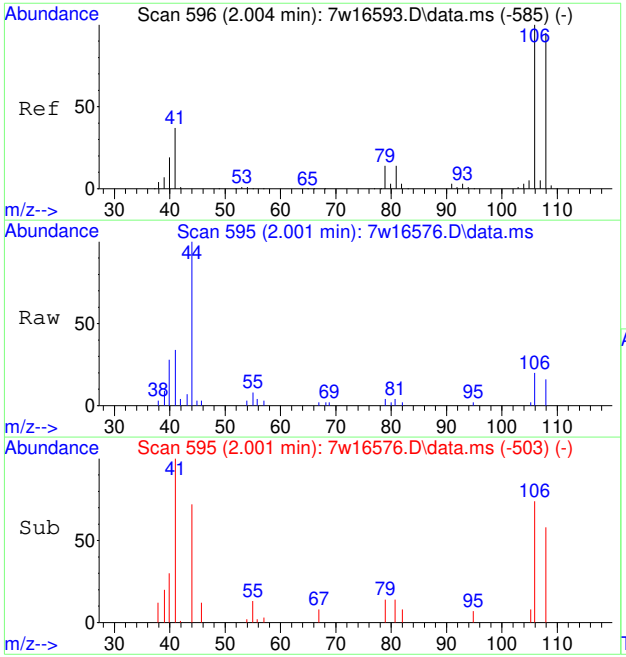


#27
CARBON DISULFIDE
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 1446

Ion	Ratio	Lower	Upper
76	100		
78	16.3	8.3	15.3#
44	85.3	13.0	24.1#

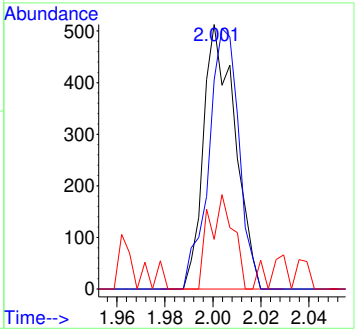


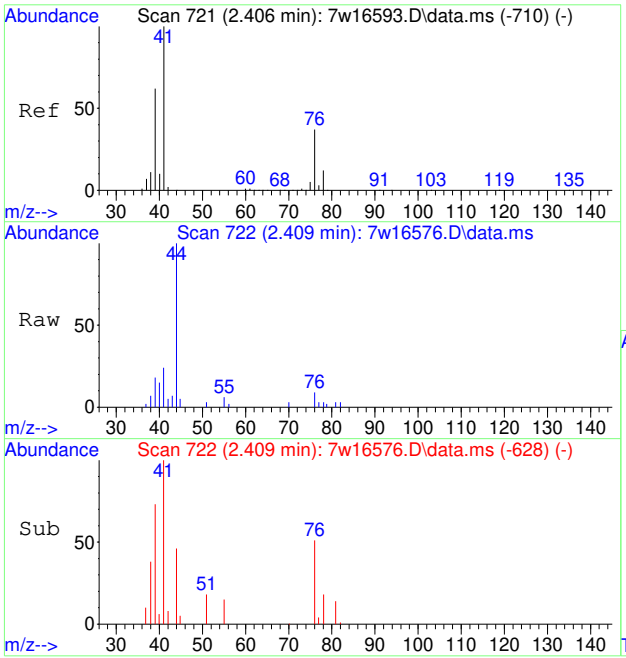


#29
BROMOETHENE
Concen: 0.04 PPBV
RT: 2.001 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:106 Resp: 466

Ion	Ratio	Lower	Upper
106	100		
108	94.2	68.3	126.8
81	29.8	14.7	27.3#

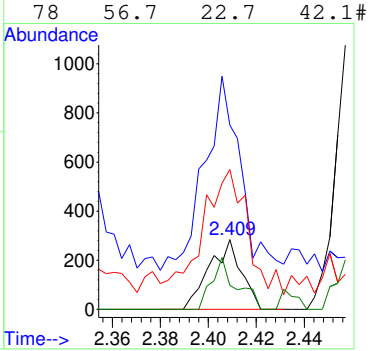


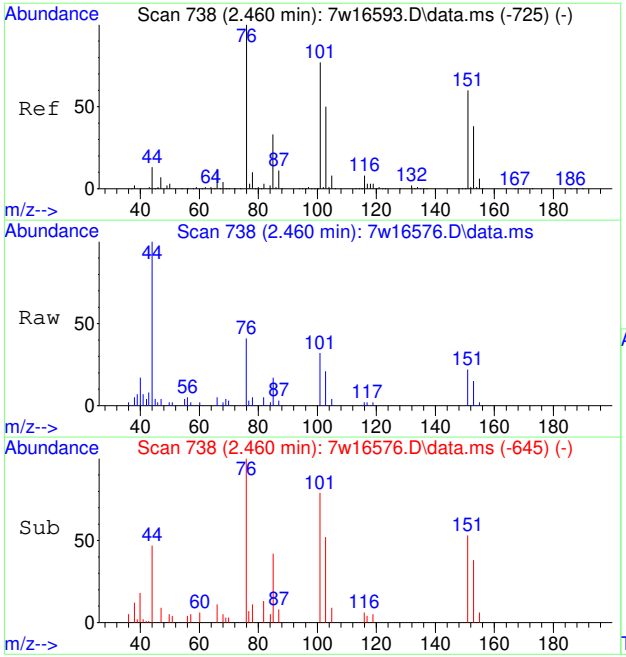


#32
3-CHLOROPROPENE
Concen: 0.04 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 263

Ion	Ratio	Lower	Upper
76	100		
41	309.5	160.9	298.9#
39	248.7	150.7	279.9
78	56.7	22.7	42.1#

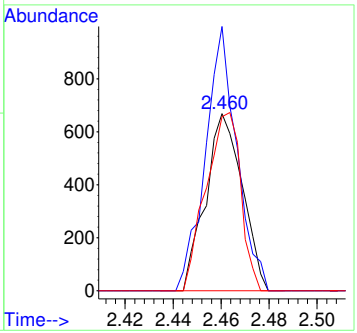


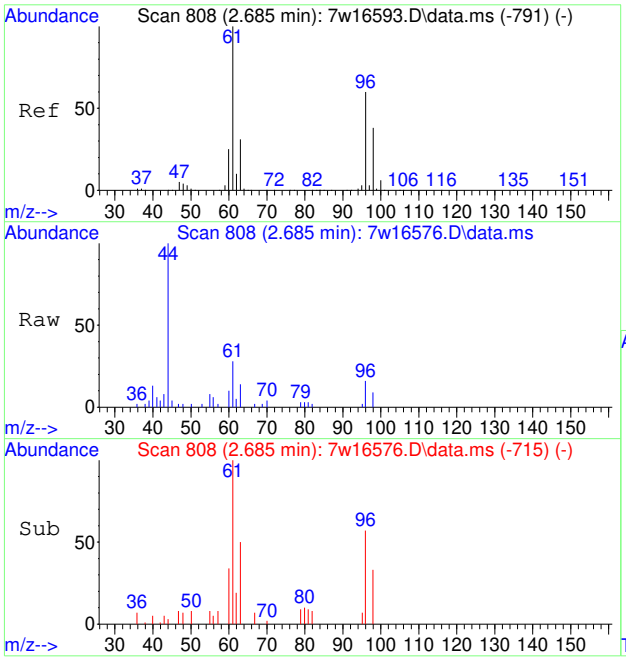


#33
FREON 113
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:151 Resp: 709

Ion	Ratio	Lower	Upper
151	100		
101	127.8	81.1	150.7
103	95.2	51.4	95.4

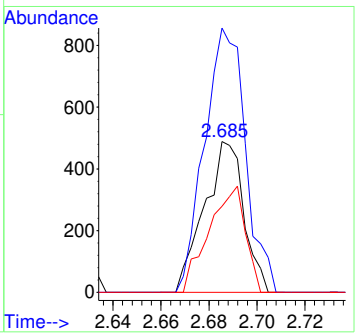


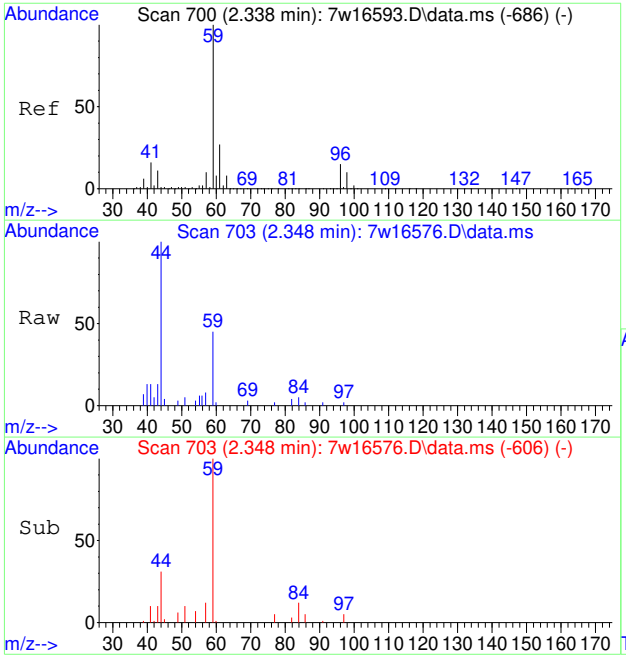


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 555

Ion	Ratio	Lower	Upper
96	100		
61	182.7	78.5	145.9#
98	65.2	46.5	86.3

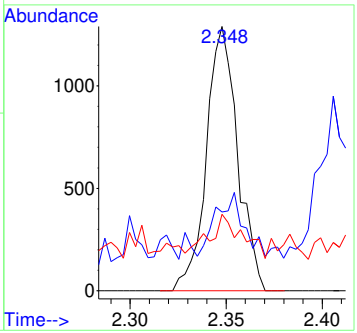


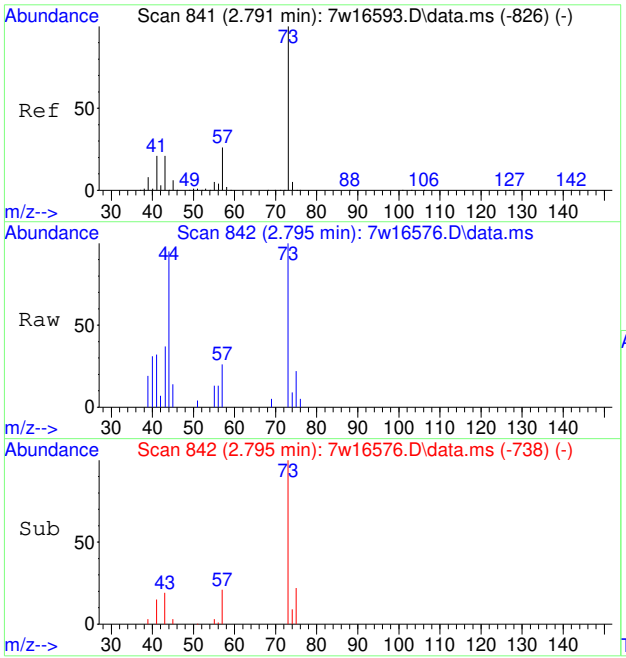


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.05 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 1458

Ion	Ratio	Lower	Upper
59	100		
41	32.6	15.3	28.5#
43	33.5	12.3	22.9#

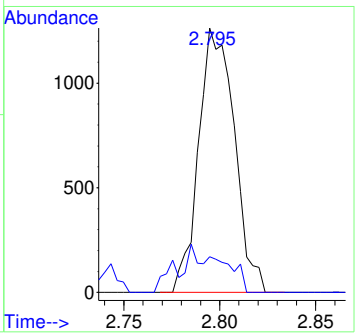


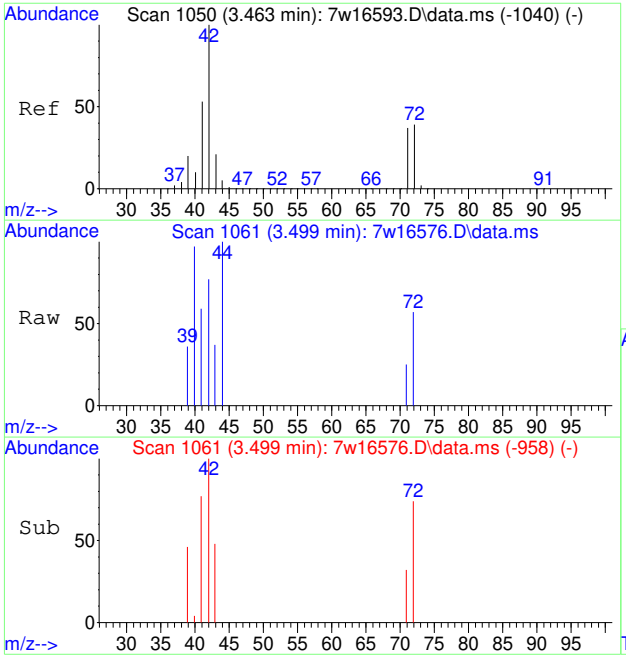


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.04 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 73 Resp: 1635

Ion	Ratio	Lower	Upper
73	100		
45	21.6	3.4	6.4#

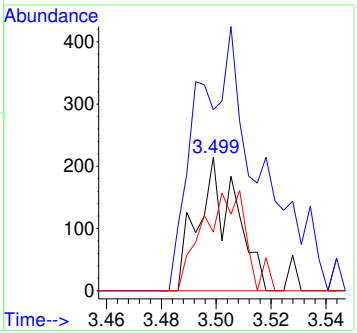


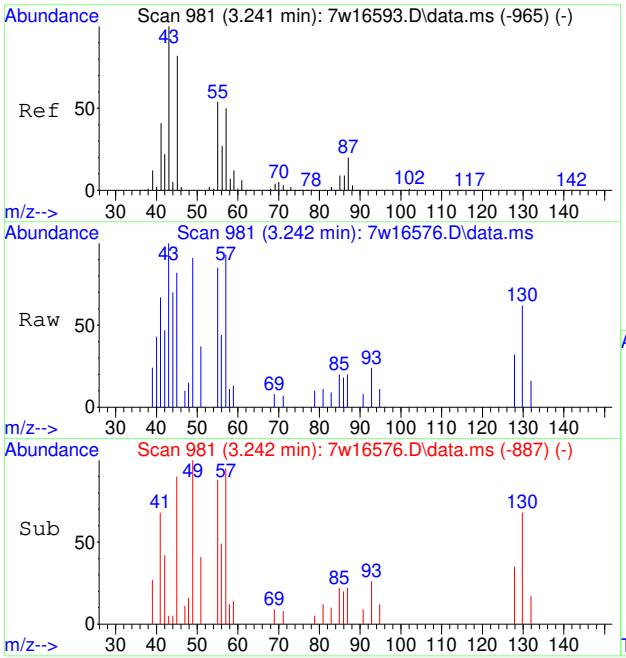


#37
TETRAHYDROFURAN
Concen: 0.03 PPBV
RT: 3.499 min Scan# 1061
Delta R.T. 0.032 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 205

Ion	Ratio	Lower	Upper
72	100		
42	334.1	153.0	284.2#
71	85.9	62.7	116.5

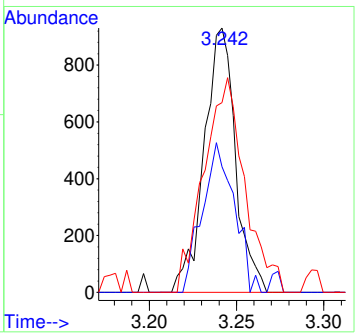


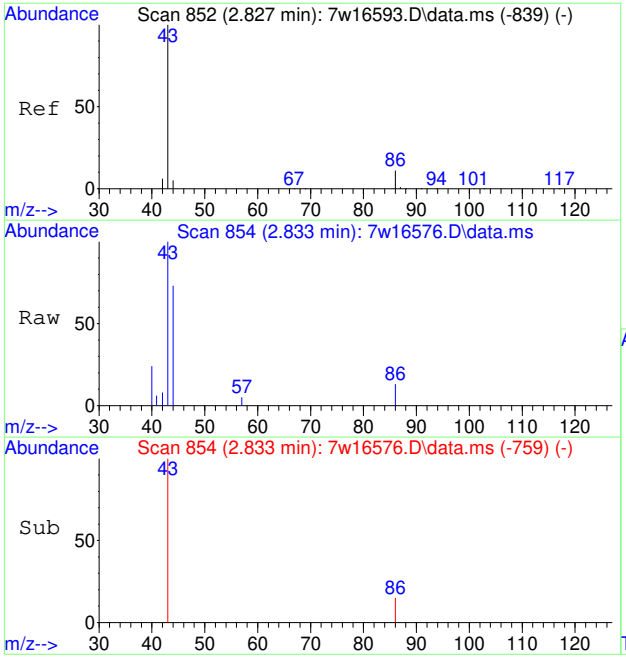


#38
HEXANE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1163

Ion	Ratio	Lower	Upper
57	100		
56	58.0	37.3	69.3
41	105.6	86.7	161.1

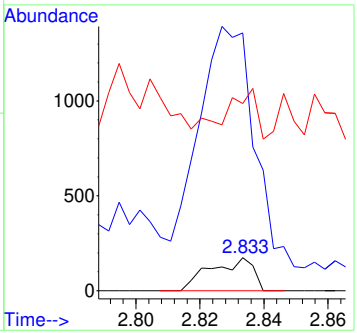


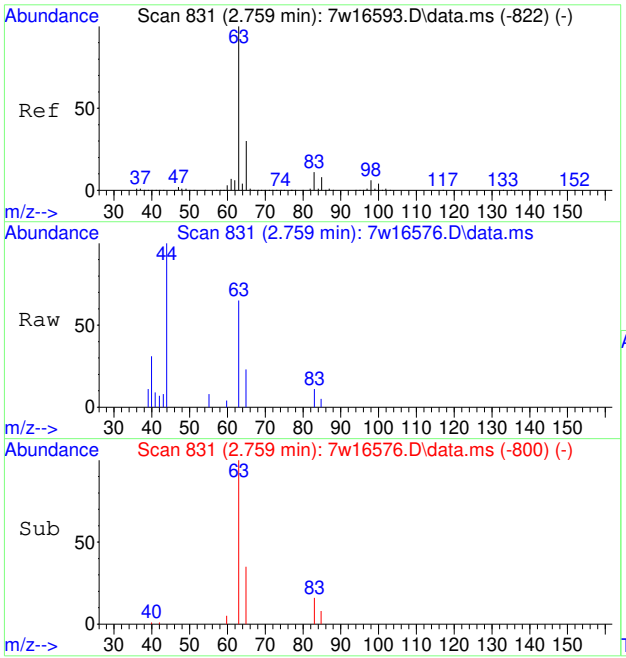


#39
VINYL ACETATE
Concen: 0.05 PPBV
RT: 2.833 min Scan# 854
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 86 Resp: 161

Ion	Ratio	Lower	Upper
86	100		
43	1339.1	667.9	1240.3#
44	80.7	32.7	60.7#

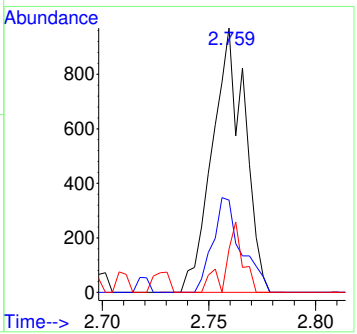


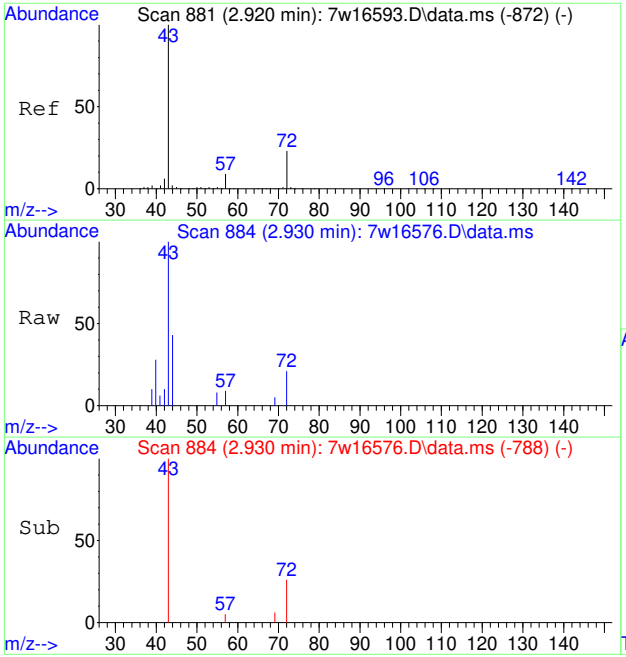


#40
1,1-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 1028

Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.8	40.6
83	14.1	10.6	19.6

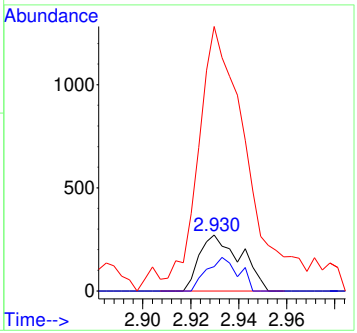


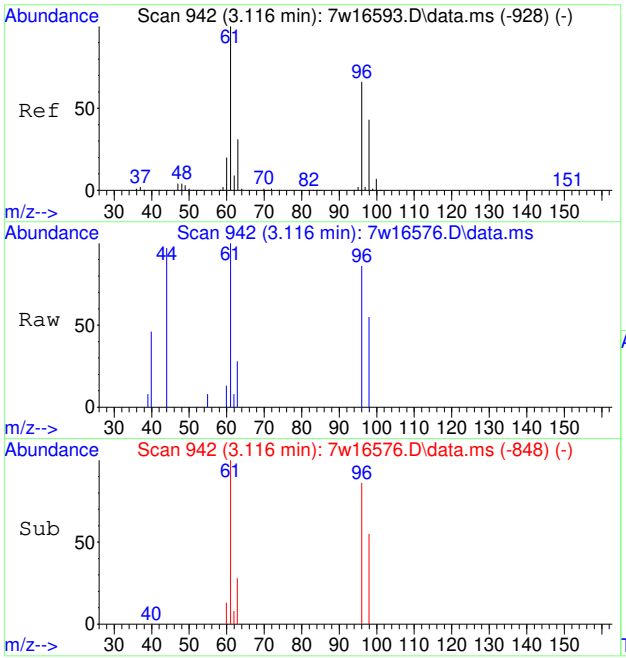


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV
RT: 2.930 min Scan# 884
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 323

Ion	Ratio	Lower	Upper
72	100		
57	45.8	20.3	37.7#
43	590.4	282.8	525.2#

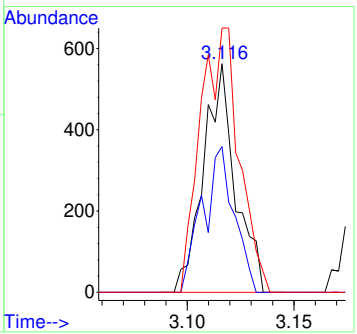


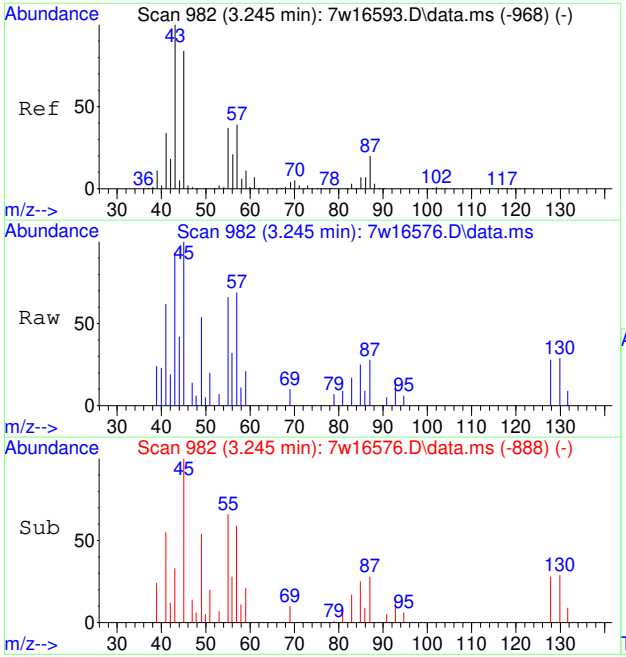


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 586

Ion	Ratio	Lower	Upper
96	100		
98	63.0	46.8	86.8
61	140.8	78.3	145.5

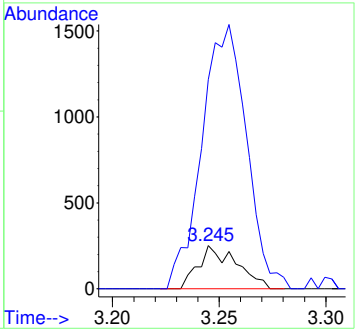


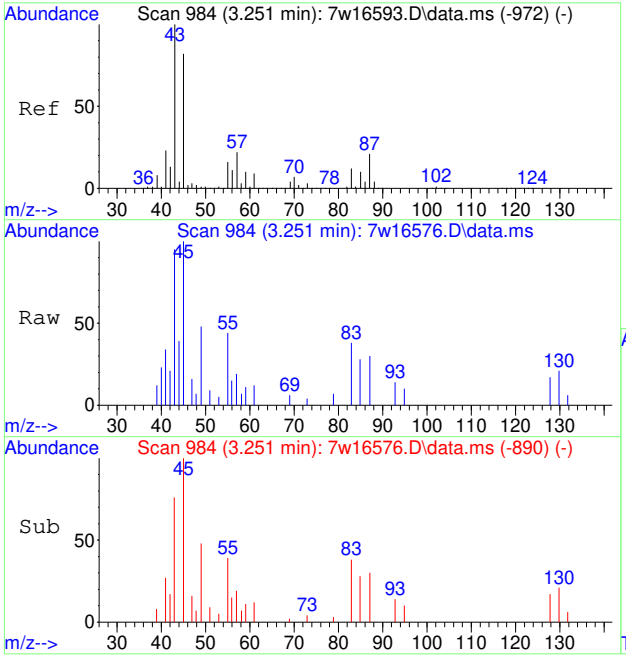


#43
DIISOPROPYL ETHER
Concen: 0.05 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 314

Ion	Ratio	Lower	Upper
59	100		
45	714.3	532.1	988.1

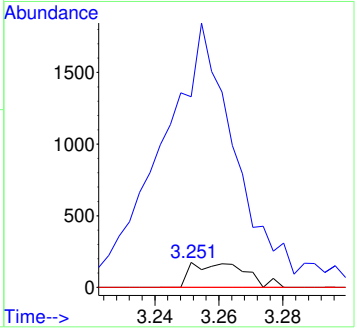


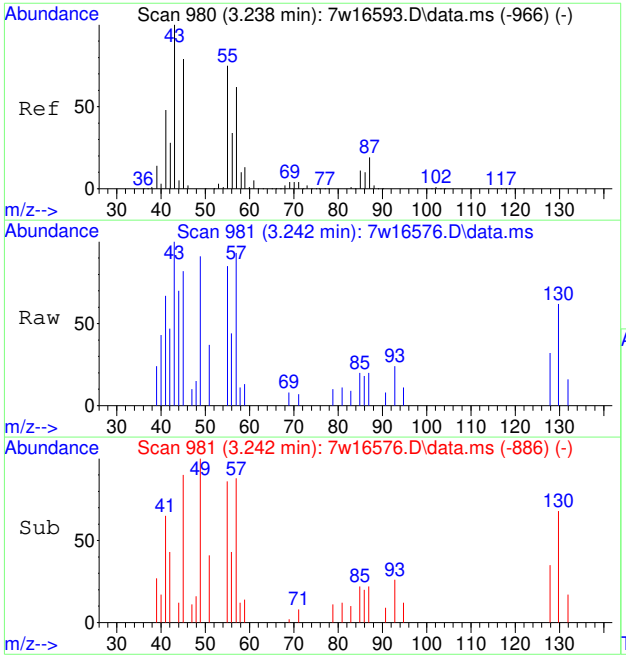


#44
ETHYL ACETATE
Concen: 0.04 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 61 Resp: 203

Ion	Ratio	Lower	Upper
61	100		
43	1613.8	1127.5	2093.9
88	0.0	36.2	67.2#

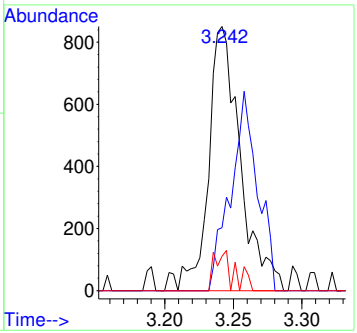


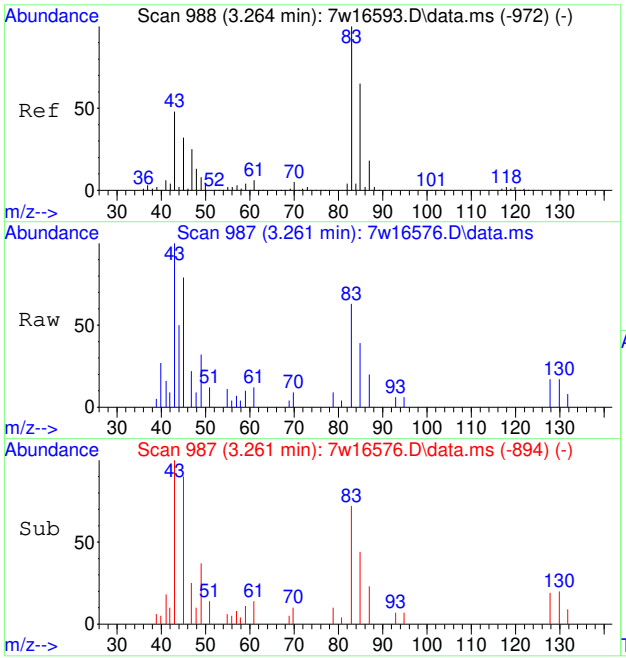


#45
METHYL ACRYLATE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1383

Ion	Ratio	Lower	Upper
55	100		
85	63.6	0.0	0.0#
58	7.4	9.2	17.0#

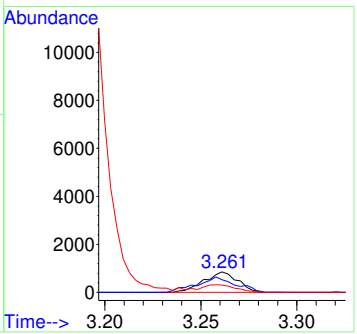


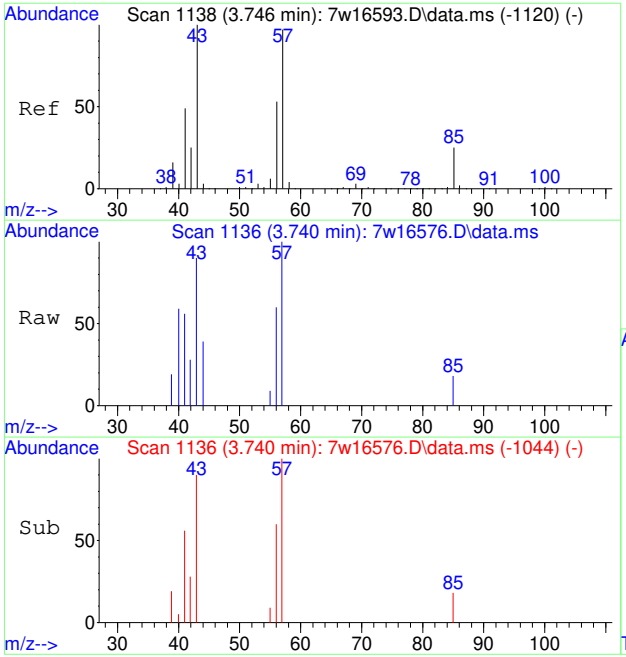


#46
CHLOROFORM
Concen: 0.04 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1053

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	44.6	17.9	33.3#

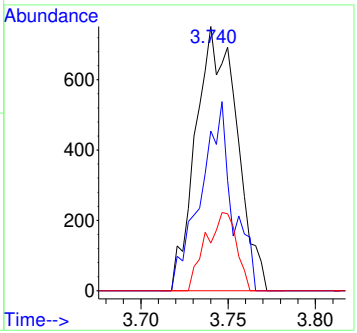


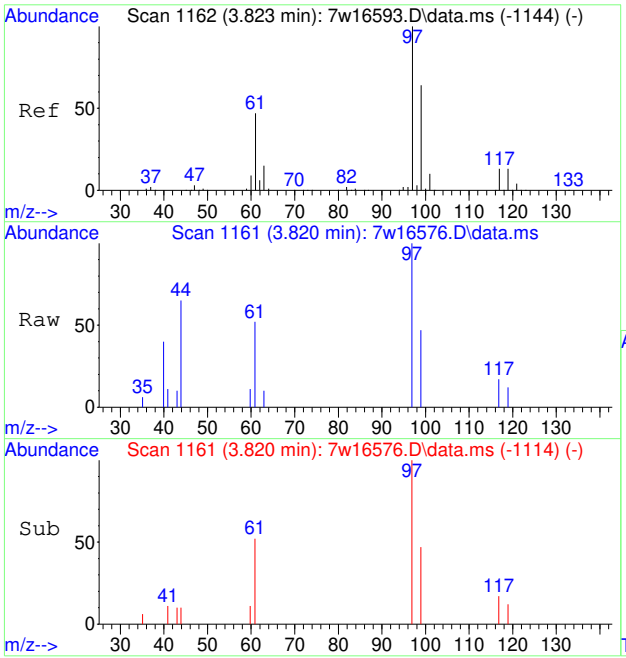


#47
2,4-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1228

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	22.1	24.1	44.7#

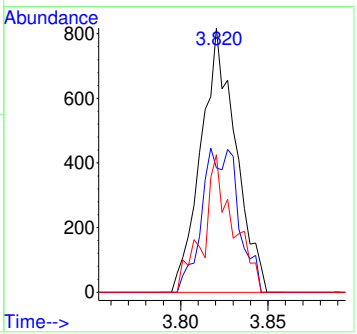


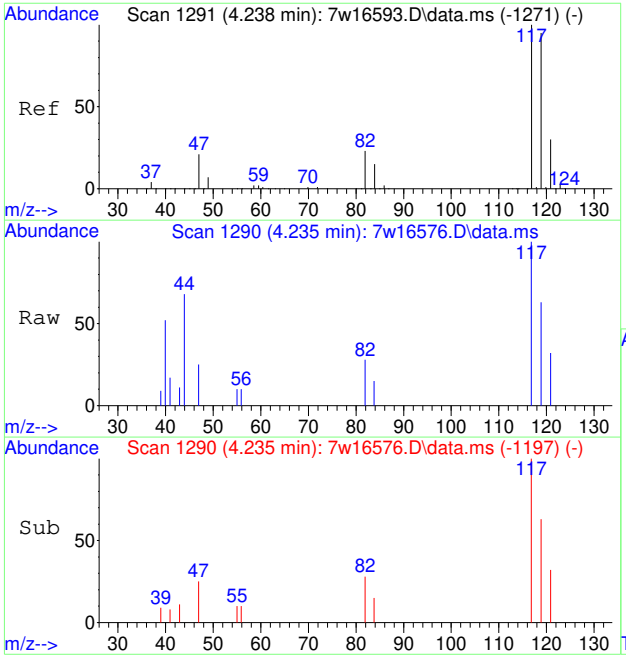


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 97 Resp: 1132

Ion	Ratio	Lower	Upper
97	100		
99	57.4	44.9	83.5
61	44.7	28.6	53.0

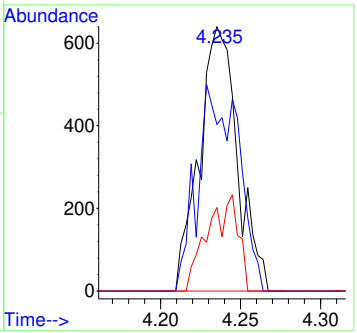


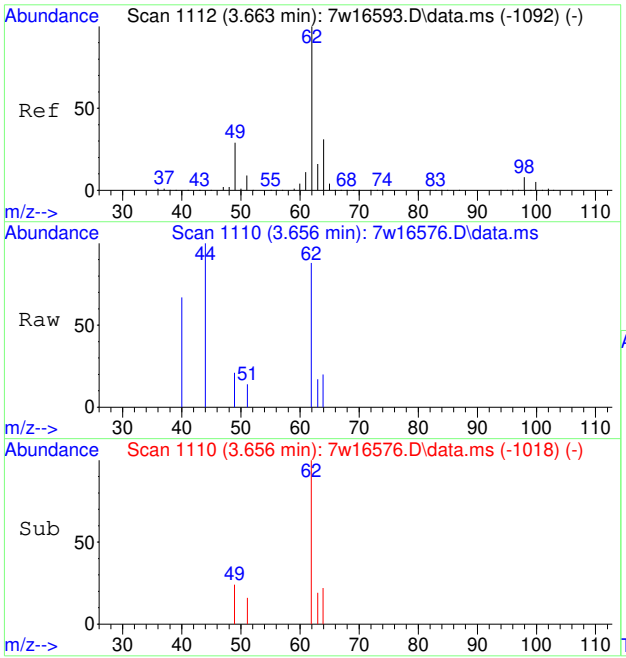


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 1061

Ion	Ratio	Lower	Upper
117	100		
119	83.8	68.8	127.8
121	29.1	22.2	41.2

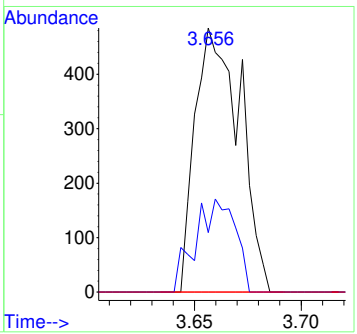


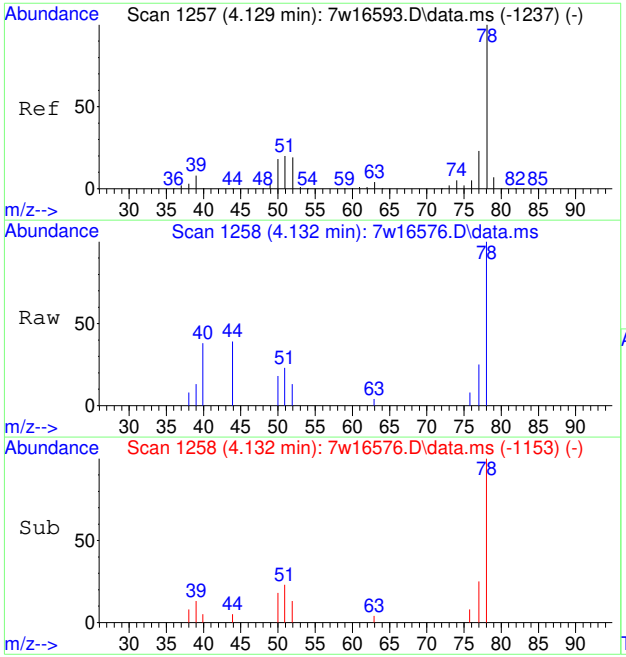


#50
1,2-DICHLOROETHANE
Concen: 0.03 PPBV
RT: 3.656 min Scan# 1110
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 712

Ion	Ratio	Lower	Upper
62	100		
64	31.3	22.5	41.7
98	0.0	6.8	12.6#

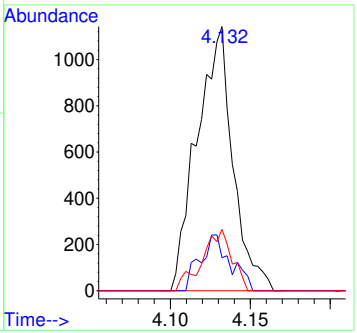


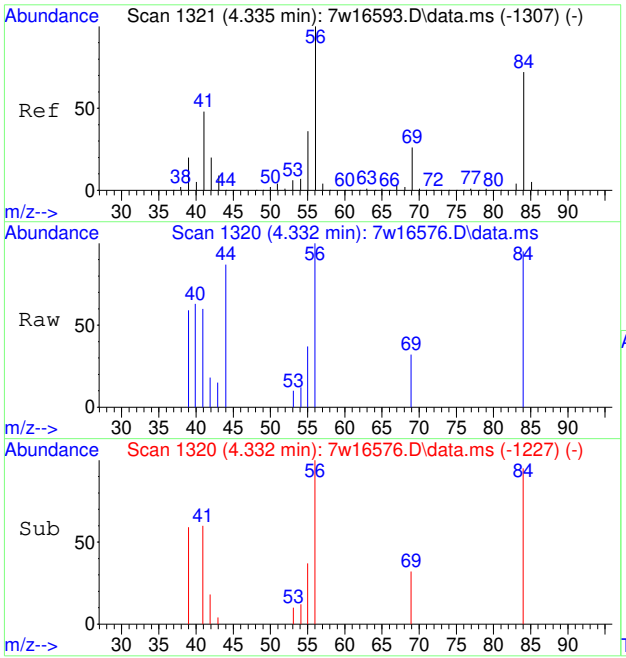


#51
BENZENE
Concen: 0.05 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 78 Resp: 1781

Ion	Ratio	Lower	Upper
78	100		
52	17.9	0.0	44.6
51	19.4	0.0	47.3

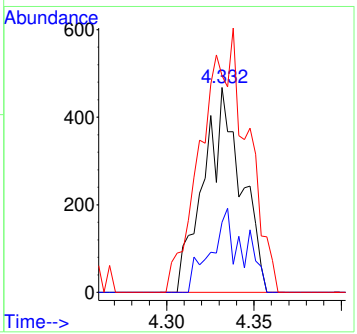


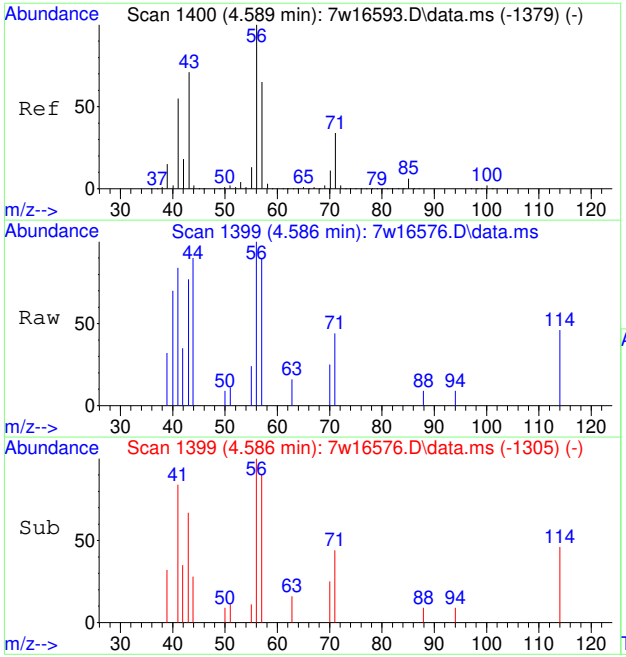


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 84 Resp: 700

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	156.6	70.2	130.4#

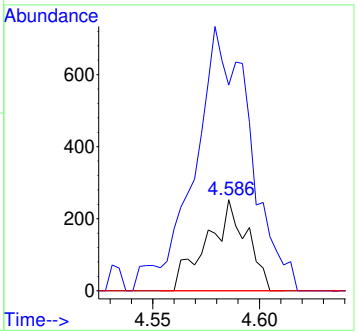


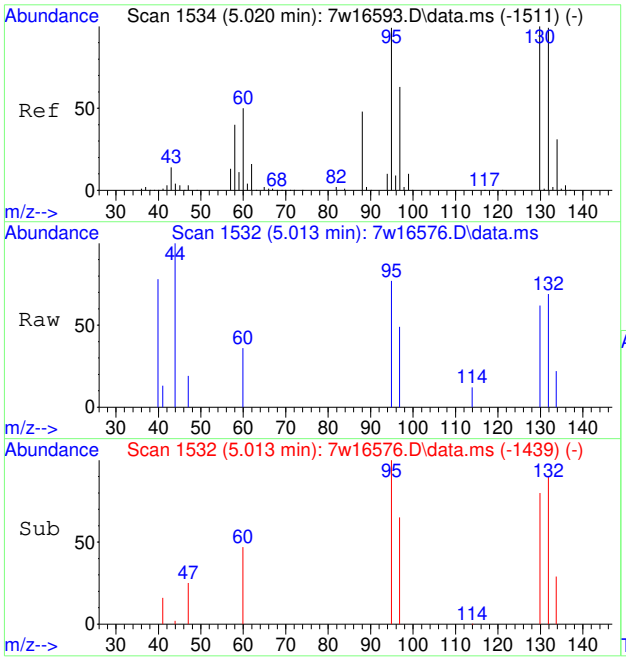


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 71 Resp: 330

Ion	Ratio	Lower	Upper
71	100		
56	412.7	171.4	318.4#
85	0.0	12.6	23.4#

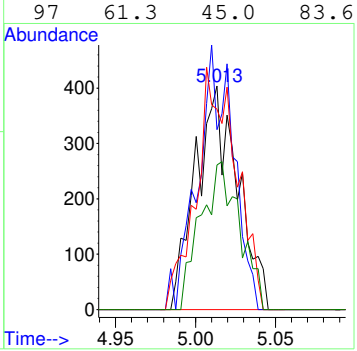


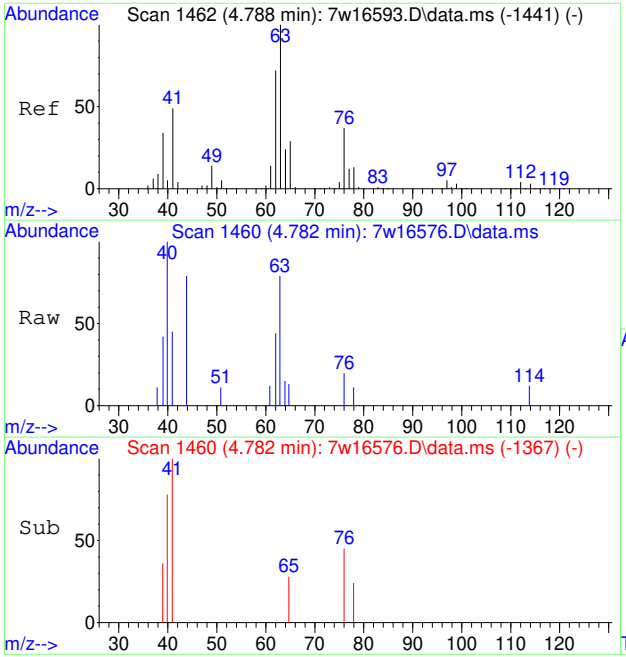


#55
TRICHLOROETHENE
Concen: 0.04 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 95 Resp: 741

Ion	Ratio	Lower	Upper
95	100		
130	98.4	85.9	159.5
132	101.9	79.4	147.4
97	61.3	45.0	83.6

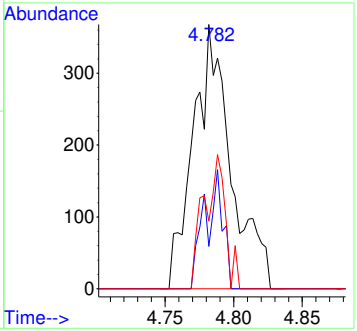


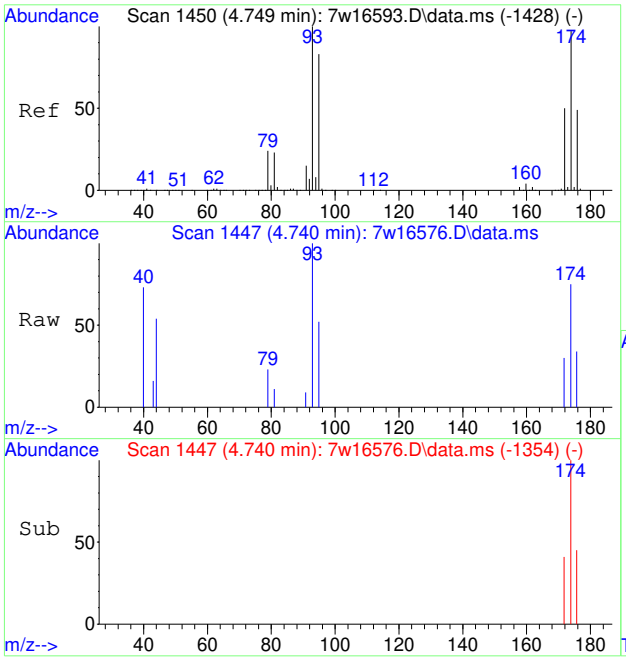


#56
1,2-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 703

Ion	Ratio	Lower	Upper
63	100		
65	21.5	22.6	42.0#
76	28.7	31.8	59.0#

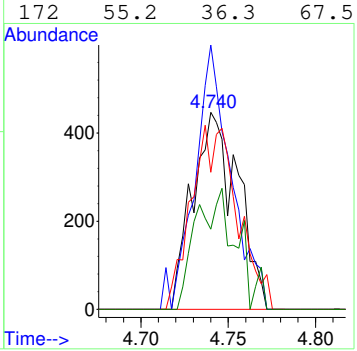


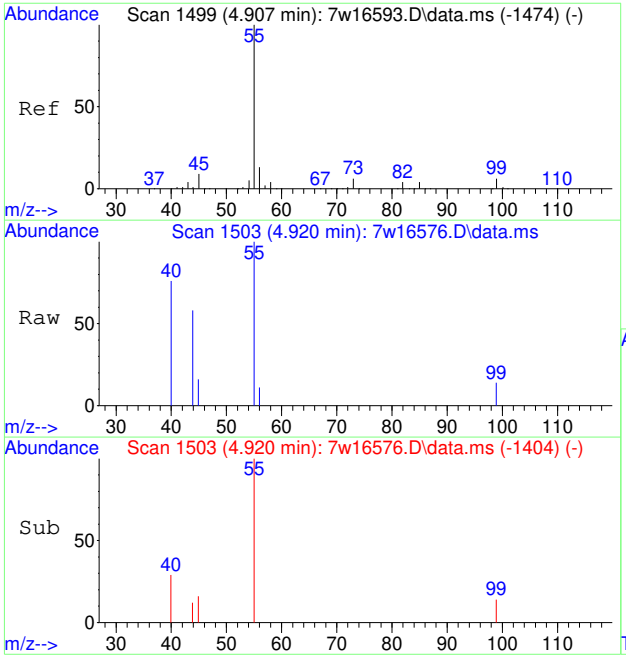


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:174 Resp: 802

Ion	Ratio	Lower	Upper
174	100		
93	108.0	67.3	125.1
95	95.5	56.8	105.6
172	55.2	36.3	67.5

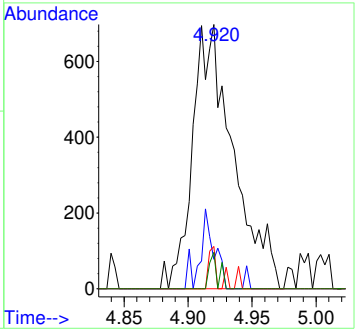


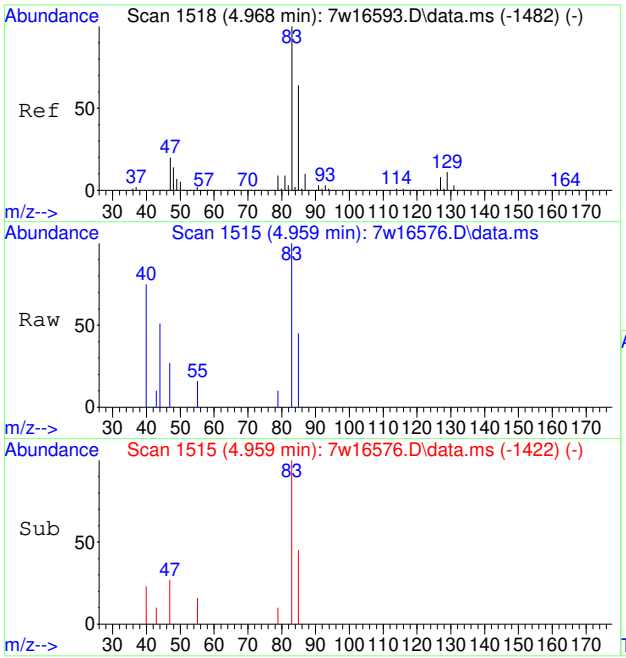


#58
ETHYL ACRYLATE
Concen: 0.04 PPBV
RT: 4.920 min Scan# 1503
Delta R.T. 0.020 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1547

Ion	Ratio	Lower	Upper
55	100		
56	10.5	7.9	14.7
45	4.1	6.6	12.2#
99	0.0	6.2	11.6#

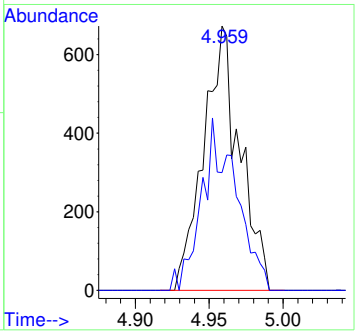


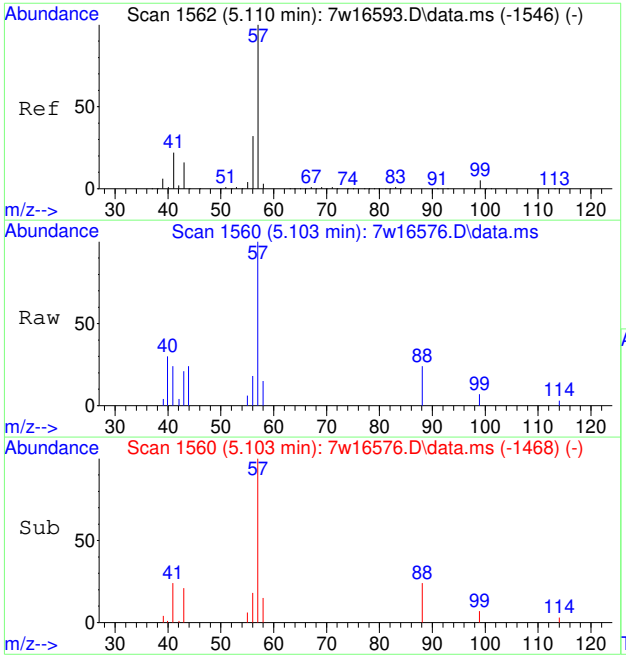


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1145

Ion	Ratio	Lower	Upper
83	100		
85	62.1	44.9	83.5

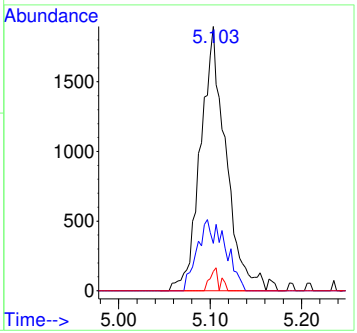


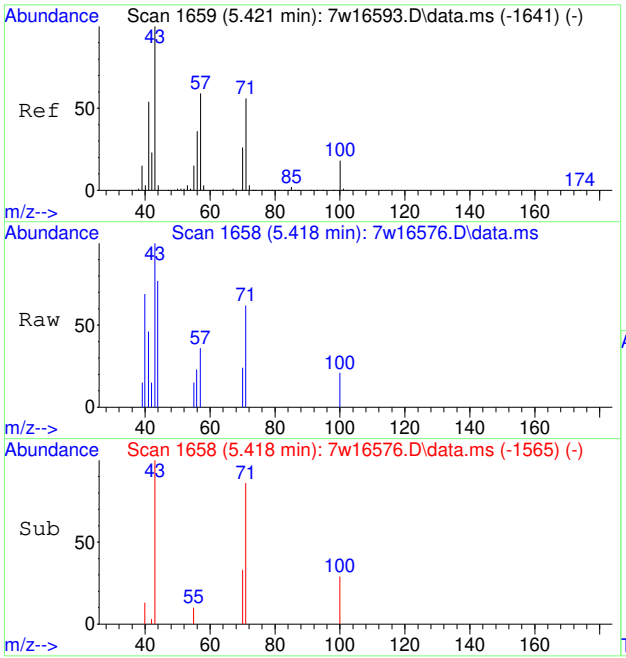


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 3683

Ion	Ratio	Lower	Upper
57	100		
56	29.4	24.4	45.2
99	3.2	5.2	9.6#

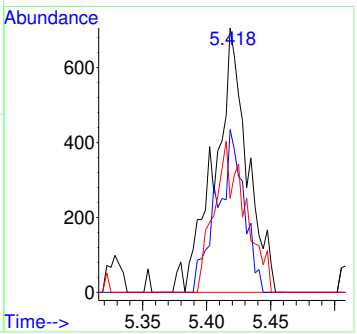


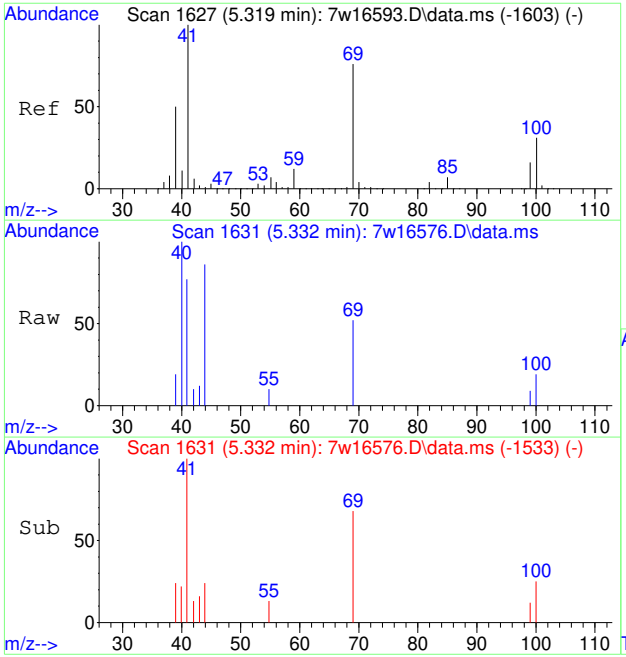


#62
HEPTANE
Concen: 0.05 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1262

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	54.4	37.2	69.0

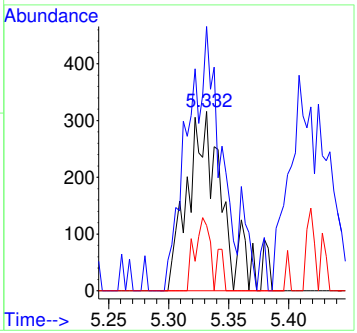


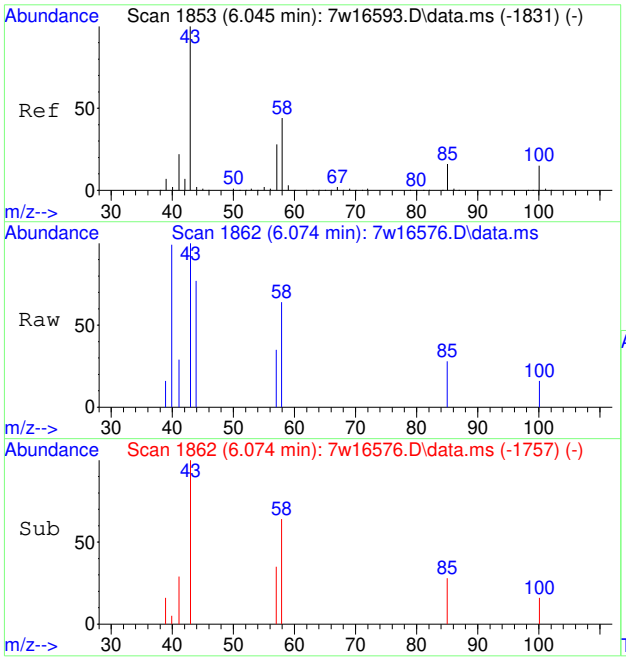


#63
METHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 5.332 min Scan# 1631
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 659

Ion	Ratio	Lower	Upper
69	100		
41	150.2	84.3	156.5
100	20.9	30.8	57.2#

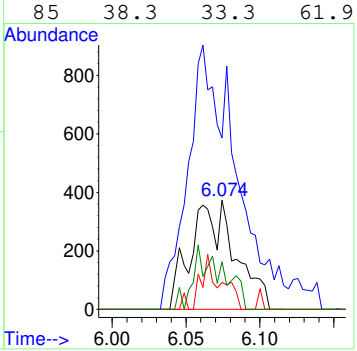


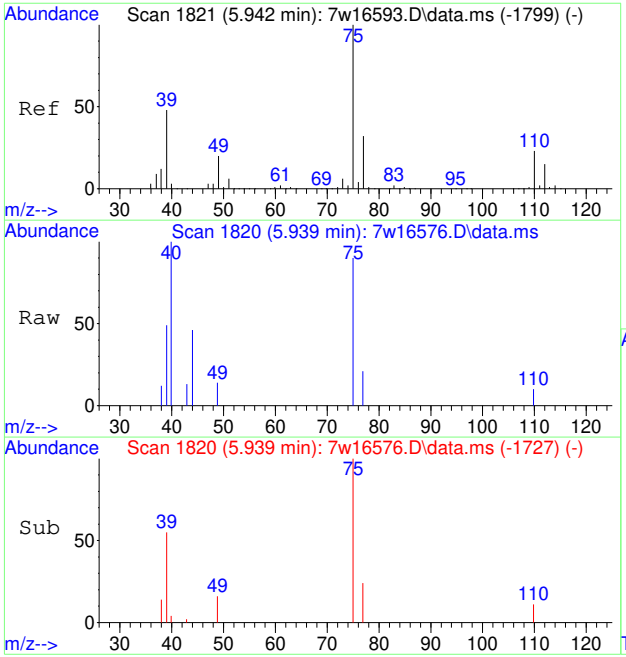


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 6.074 min Scan# 1862
Delta R.T. 0.039 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 776

Ion	Ratio	Lower	Upper
58	100		
43	276.2	193.8	360.0
100	23.3	32.8	60.8#
85	38.3	33.3	61.9

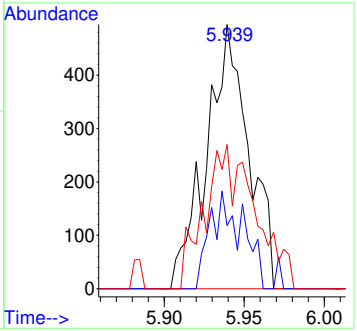


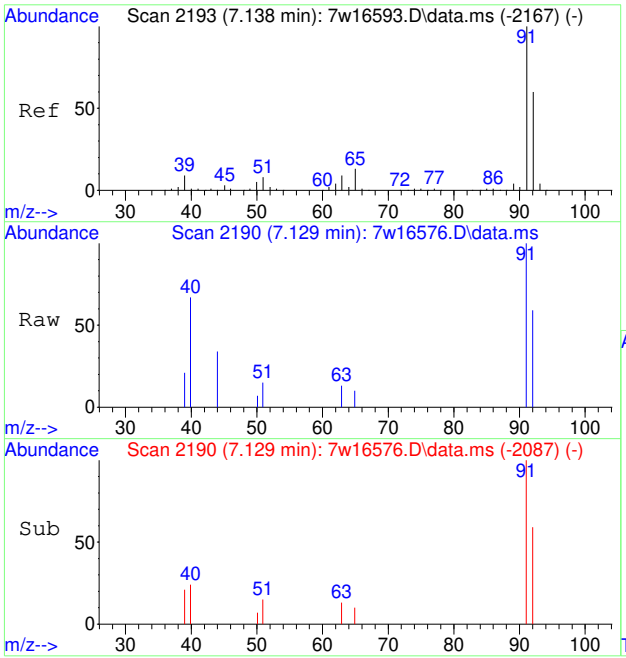


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 908

Ion	Ratio	Lower	Upper
75	100		
77	28.3	22.0	40.8
39	65.5	38.5	71.5

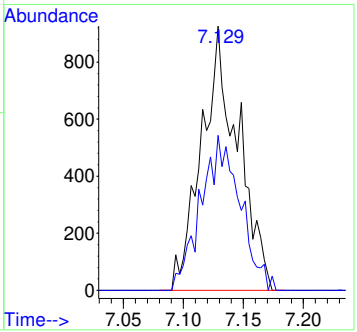


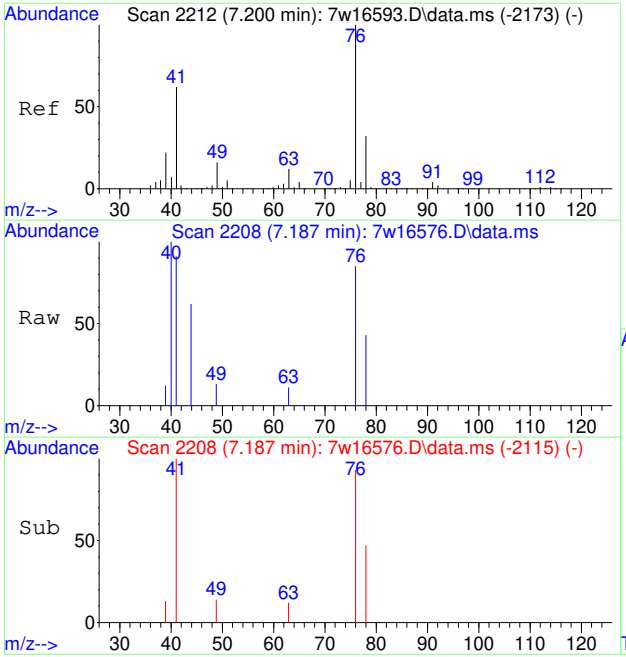


#66
TOLUENE
Concen: 0.04 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1961

Ion	Ratio	Lower	Upper
91	100		
92	62.6	28.1	88.1

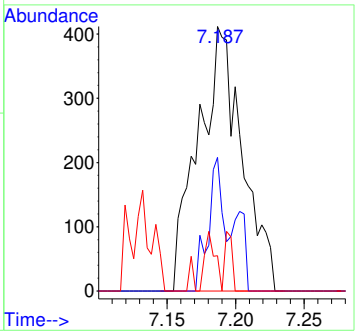


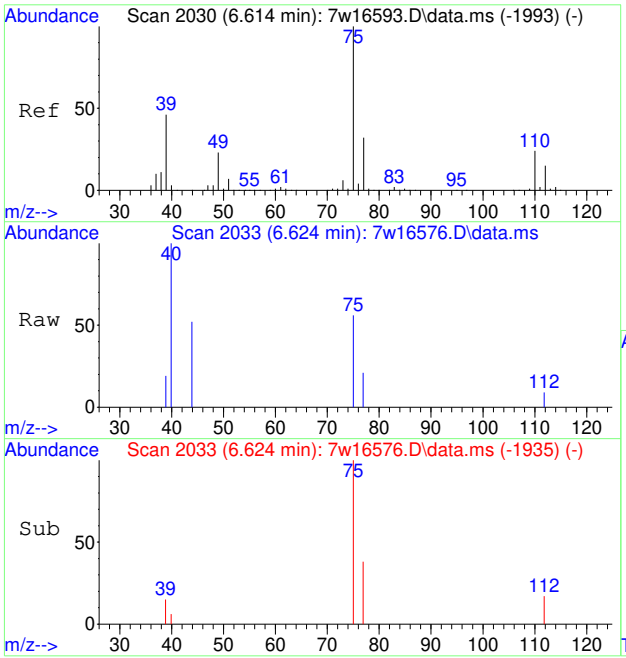


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 917

Ion	Ratio	Lower	Upper
76	100		
78	26.3	22.1	41.1
63	6.5	8.0	14.8#

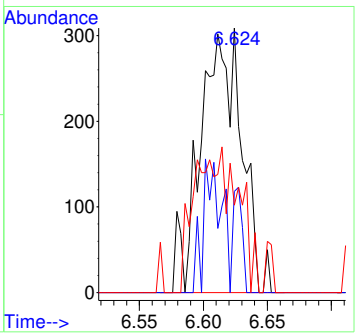


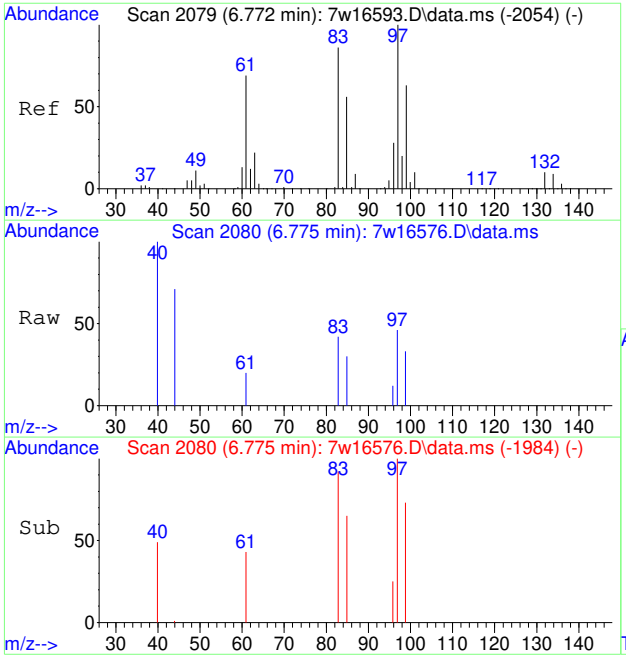


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 6.624 min Scan# 2033
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 685

Ion	Ratio	Lower	Upper
75	100		
77	0.0	22.5	41.7#
39	59.0	37.2	69.0

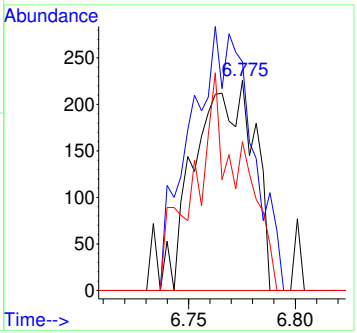


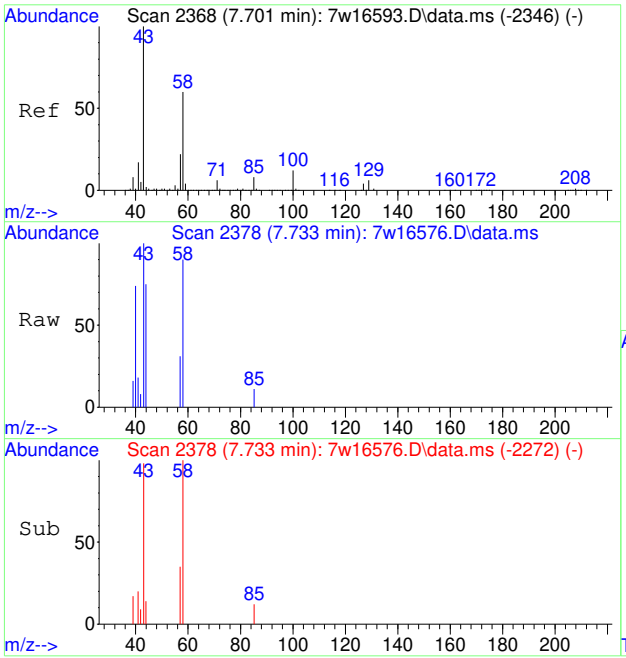


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 6.775 min Scan# 2080
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 432

Ion	Ratio	Lower	Upper
83	100		
97	131.5	86.7	160.9
85	82.9	45.5	84.5

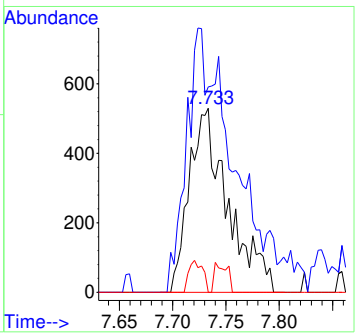


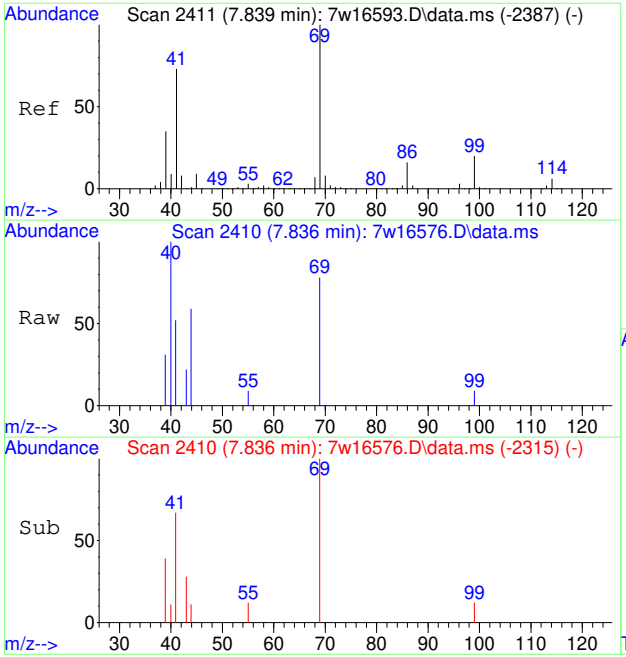


#70
2-HEXANONE
Concen: 0.06 PPBV
RT: 7.733 min Scan# 2378
Delta R.T. 0.042 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 1334

Ion	Ratio	Lower	Upper
58	100		
43	0.0	141.7	263.3#
100	5.2	18.9	35.1#

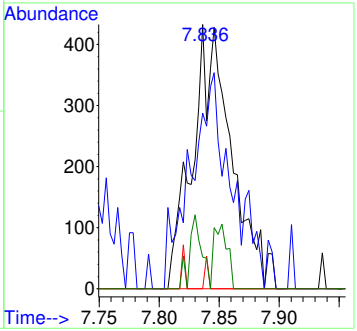


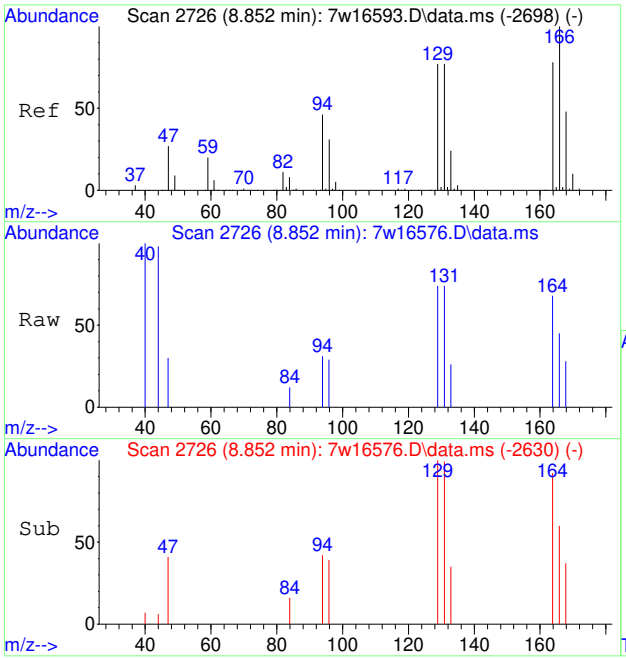


#71
ETHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 991

Ion	Ratio	Lower	Upper
69	100		
41	0.0	49.3	91.6#
86	0.0	11.6	21.6#
99	8.7	13.4	24.8#

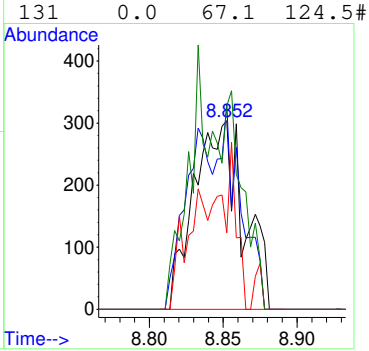


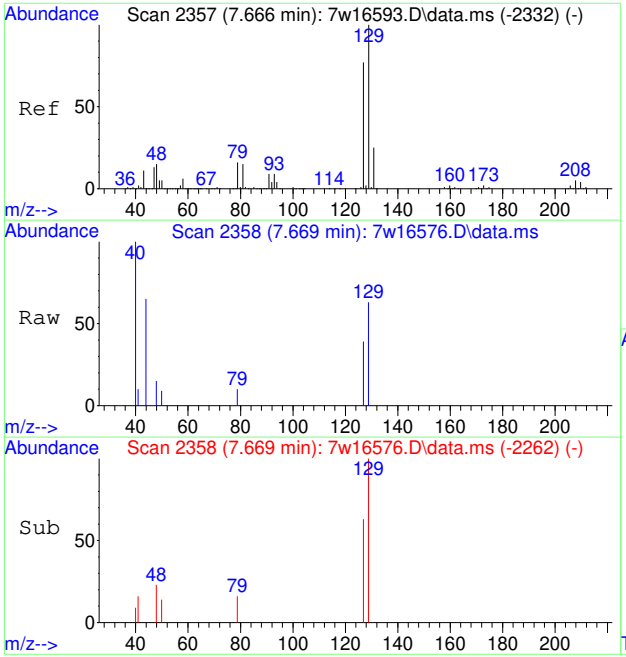


#72
TETRACHLOROETHENE
Concen: 0.04 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:164 Resp: 707

Ion	Ratio	Lower	Upper
164	100		
129	101.7	69.7	129.5
168	63.5	43.4	80.6
131	0.0	67.1	124.5#

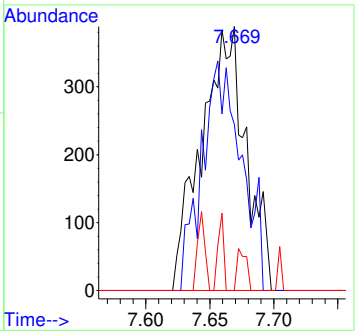


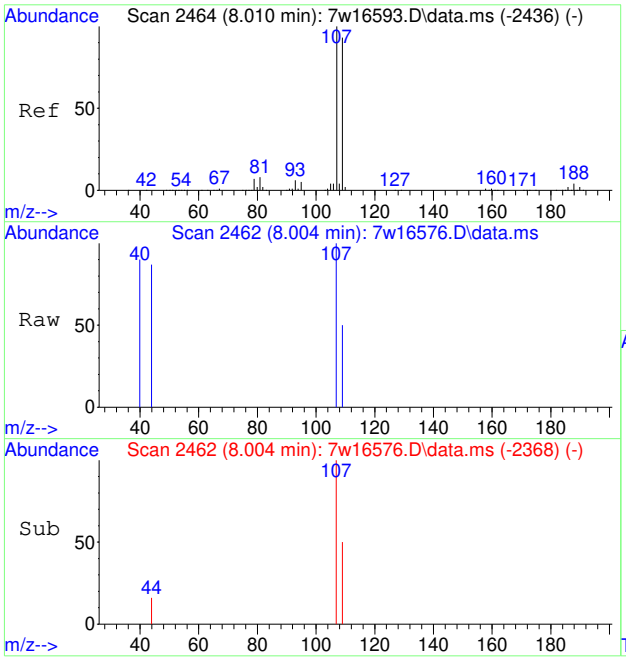


#73
DIBROMOCHLOROMETHANE
Concen: 0.03 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:129 Resp: 938

Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.0	98.4#
131	0.0	16.9	31.3#

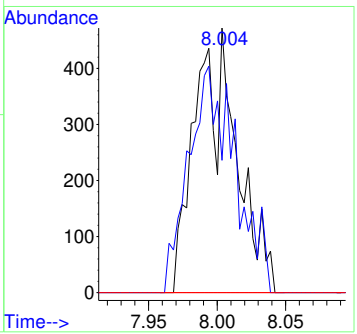


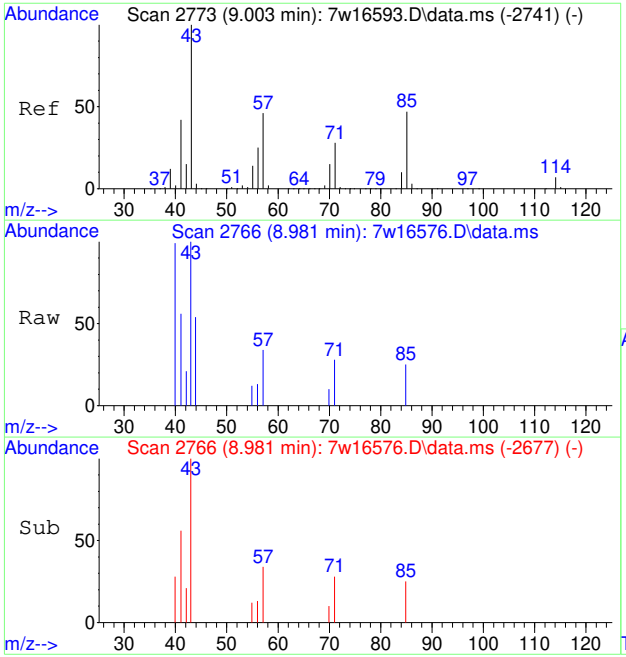


#74
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 8.004 min Scan# 2462
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:107 Resp: 998

Ion	Ratio	Lower	Upper
107	100		
109	95.5	65.7	122.1
188	0.0	2.4	4.4#

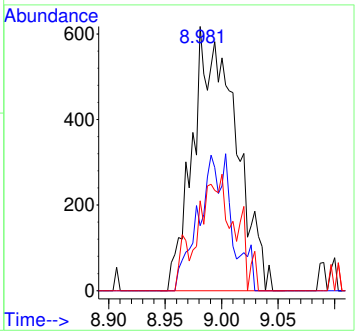


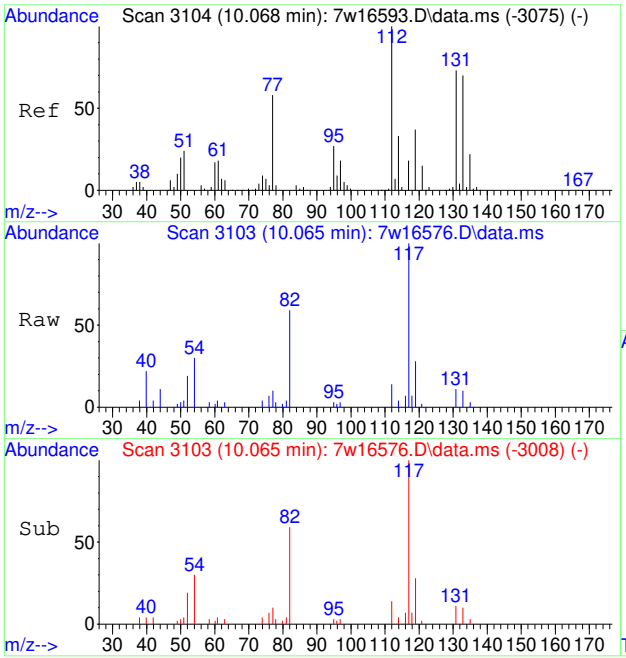


#75
OCTANE
Concen: 0.04 PPBV
RT: 8.981 min Scan# 2766
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1632

Ion	Ratio	Lower	Upper
43	100		
85	0.0	36.5	67.9#
57	0.0	27.6	51.2#

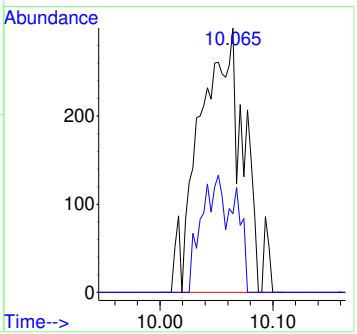


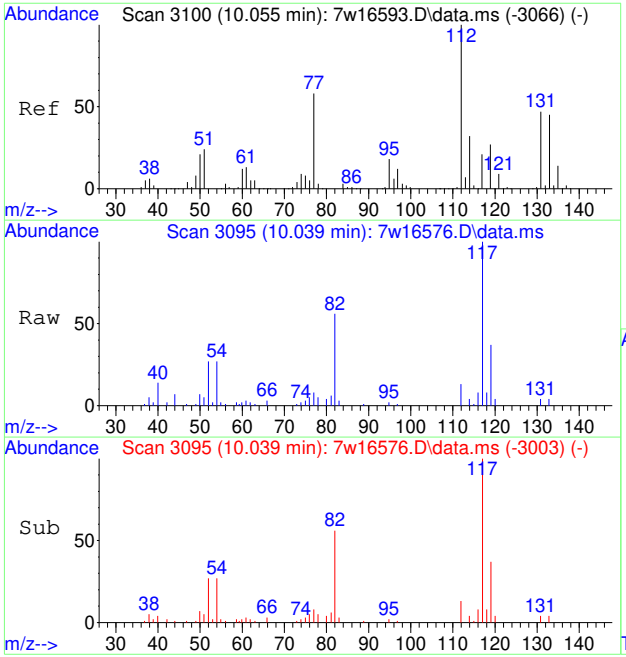


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 10.065 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:131 Resp: 804

Ion	Ratio	Lower	Upper
131	100		
95	33.6	23.7	43.9

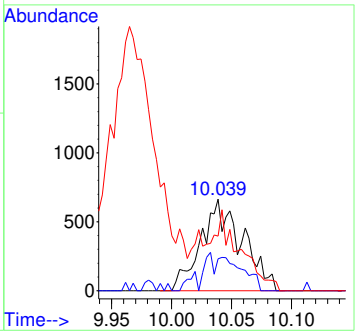


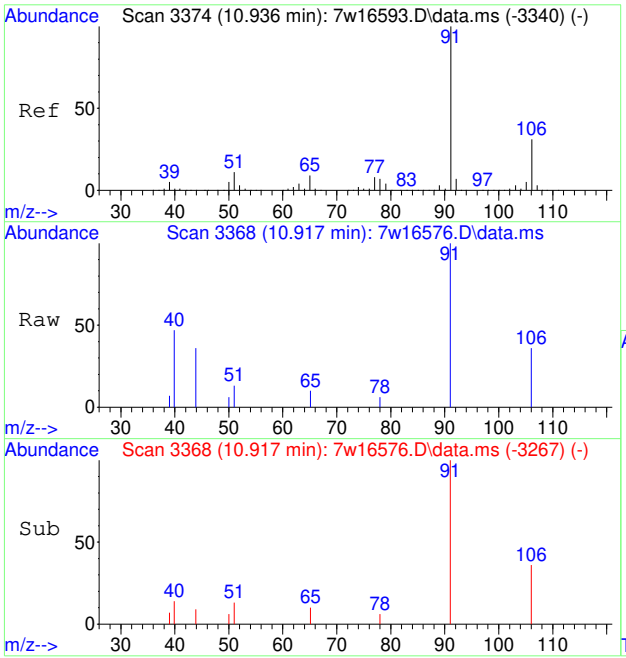


#78
CHLOROBENZENE
Concen: 0.04 PPBV
RT: 10.039 min Scan# 3095
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:112 Resp: 1584

Ion	Ratio	Lower	Upper
112	100		
114	37.2	22.9	42.5
77	74.4	34.4	63.8#

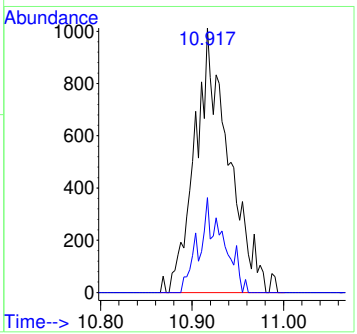


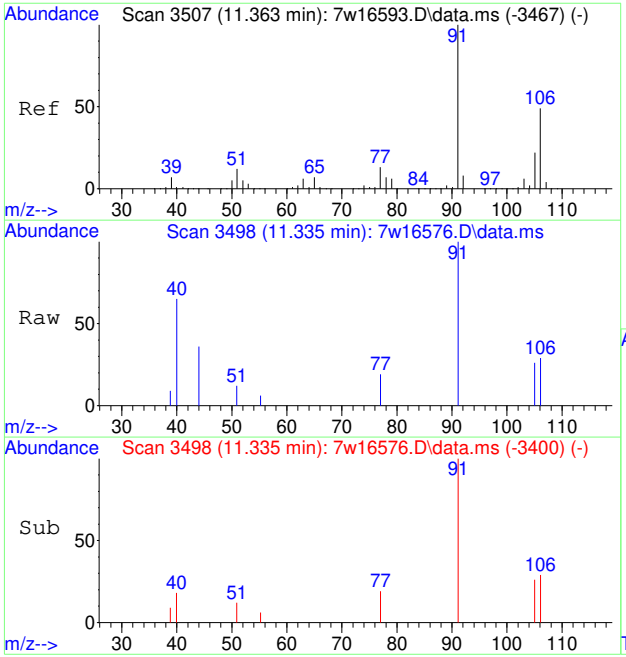


#79
ETHYLBENZENE
Concen: 0.04 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2610

Ion	Ratio	Lower	Upper
91	100		
106	25.6	2.8	62.8

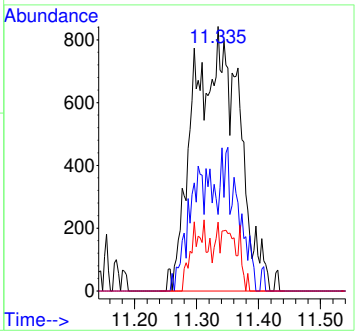


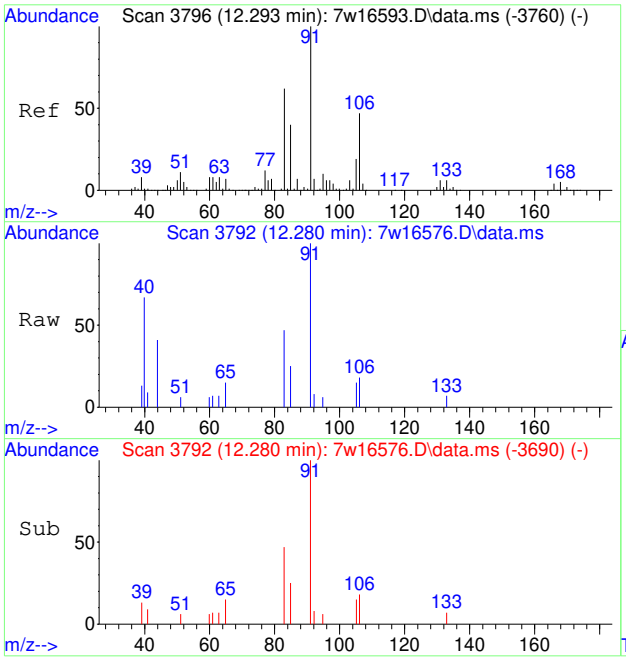


#80
M,P-XYLENE
Concen: 0.08 PPBV
RT: 11.335 min Scan# 3498
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 4291

Ion	Ratio	Lower	Upper
91	100		
106	22.1	0.0	58.7
105	11.4	0.0	43.2

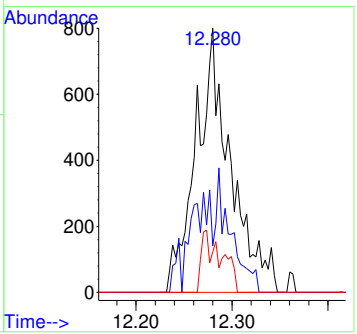


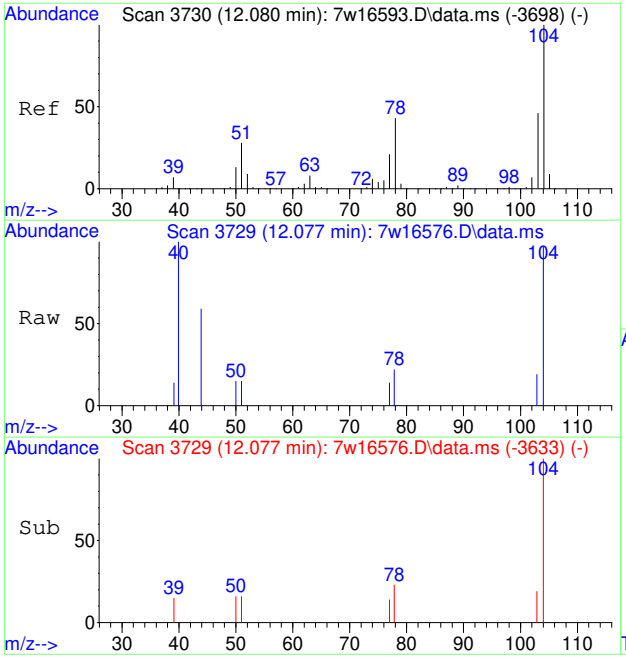


#81
O-XYLENE
Concen: 0.04 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2009

Ion	Ratio	Lower	Upper
91	100		
106	17.6	34.1	63.3#
105	15.4	14.6	27.2

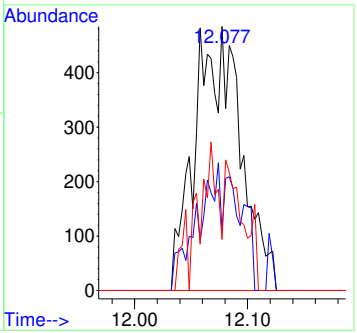


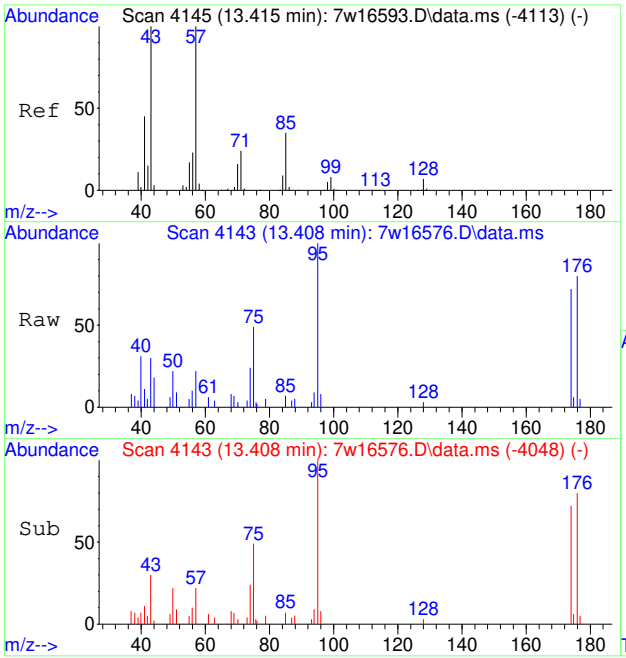


#82
STYRENE
Concen: 0.04 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:104 Resp: 1372

Ion	Ratio	Lower	Upper
104	100		
78	43.2	25.3	46.9
103	46.0	33.2	61.7

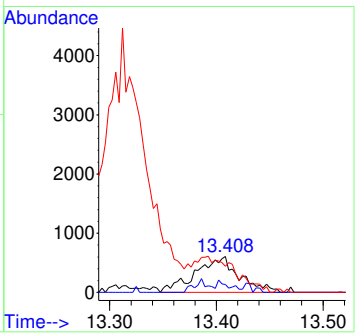


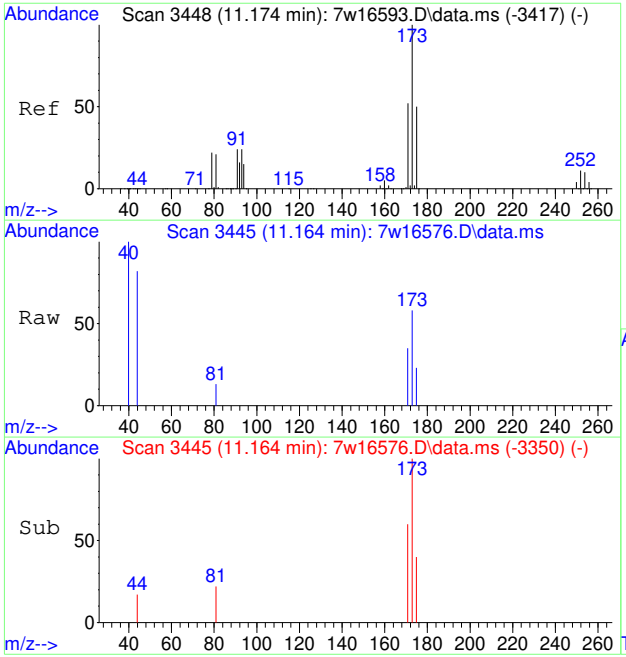


#83
NONANE
Concen: 0.04 PPBV
RT: 13.408 min Scan# 4143
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1708

Ion	Ratio	Lower	Upper
43	100		
85	6.0	27.6	51.2#
57	0.0	56.4	104.7#

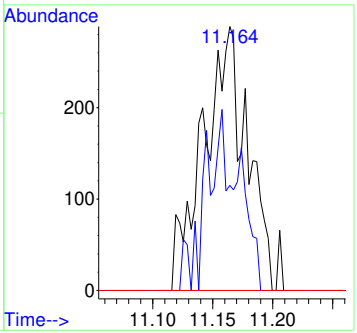


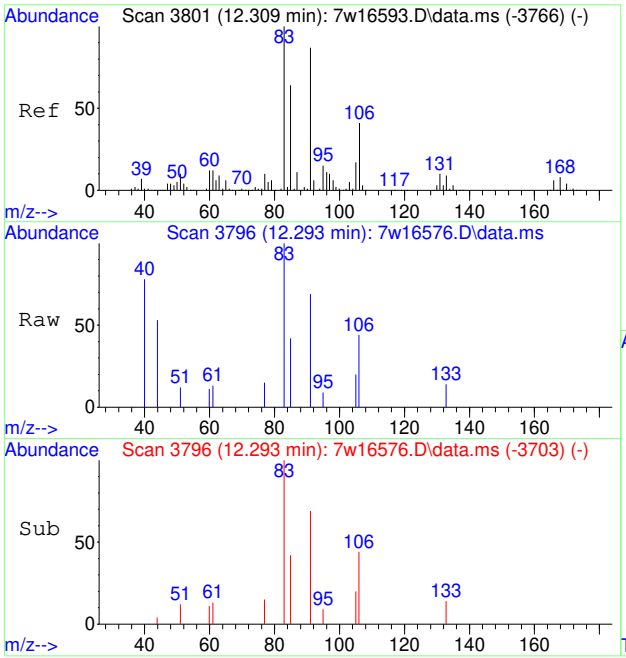


#84
BROMOFORM
Concen: 0.03 PPBV
RT: 11.164 min Scan# 3445
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:173 Resp: 746

Ion	Ratio	Lower	Upper
173	100		
175	50.7	33.0	61.4
254	0.0	5.9	10.9#

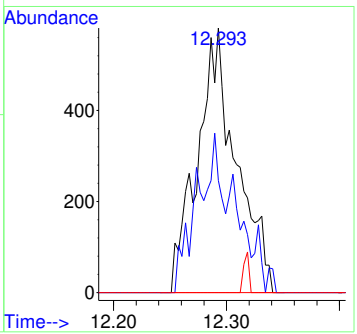


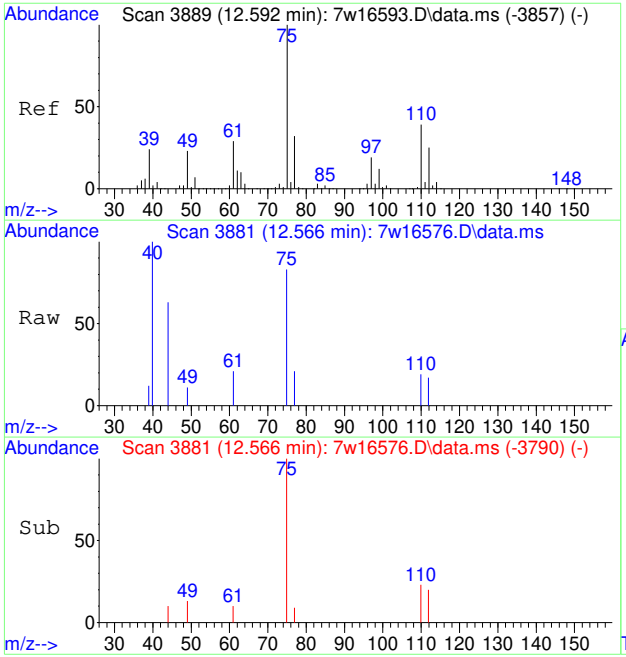


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1386

Ion	Ratio	Lower	Upper
83	100		
85	59.8	44.6	82.8
131	0.0	8.0	14.8#

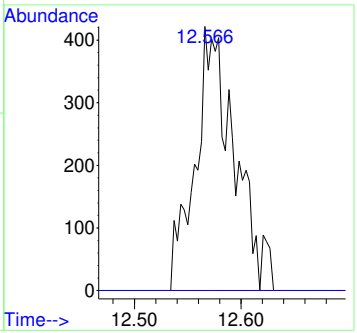


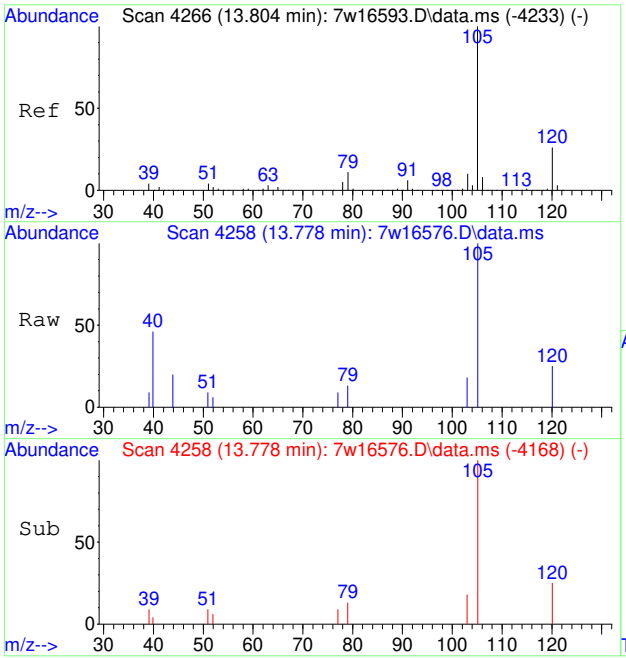


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.04 PPBV
RT: 12.566 min Scan# 3881
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 1086

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

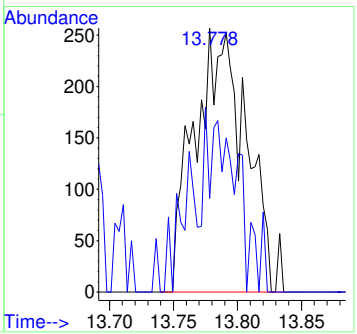


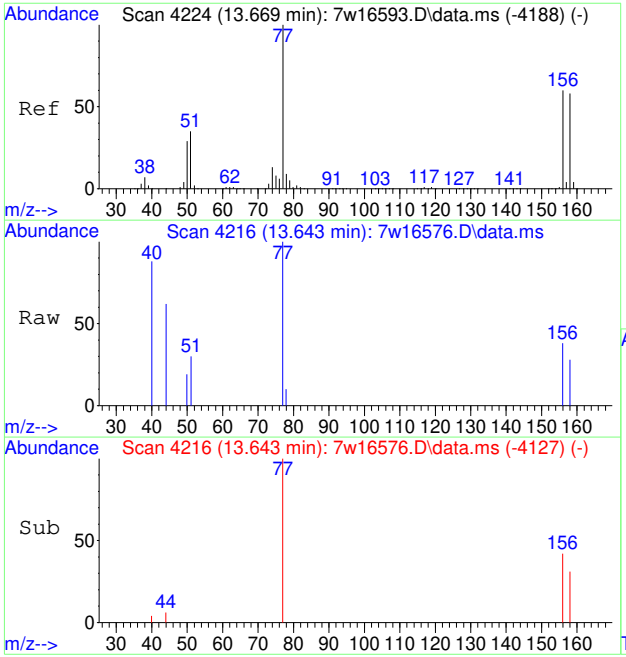


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 720

Ion	Ratio	Lower	Upper
120	100		
77	51.5	36.0	67.0

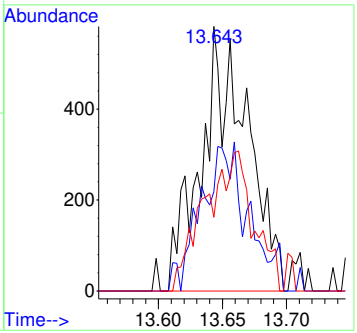


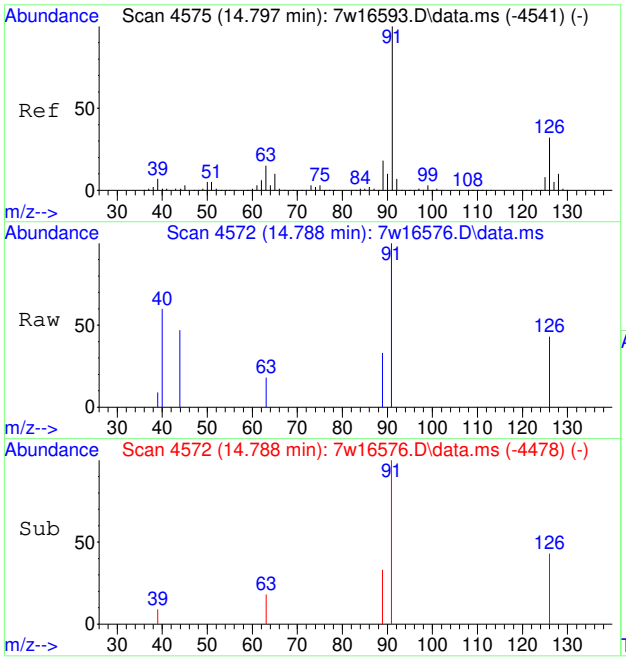


#89
BROMOBENZENE
Concen: 0.04 PPBV
RT: 13.643 min Scan# 4216
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 77 Resp: 1476

Ion	Ratio	Lower	Upper
77	100		
156	56.1	57.9	107.5#
158	57.3	55.7	103.5

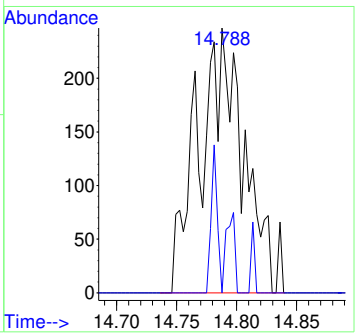


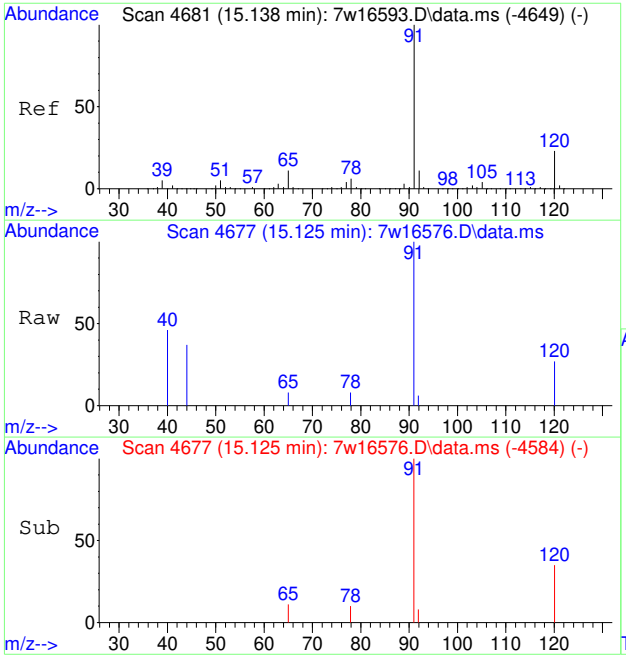


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:126 Resp: 652

Ion	Ratio	Lower	Upper
126	100		
128	13.3	22.7	42.1#

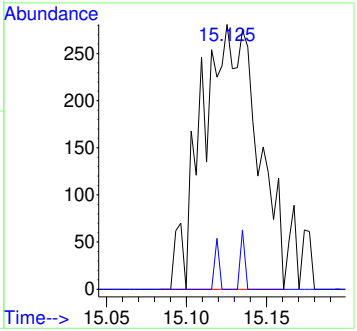


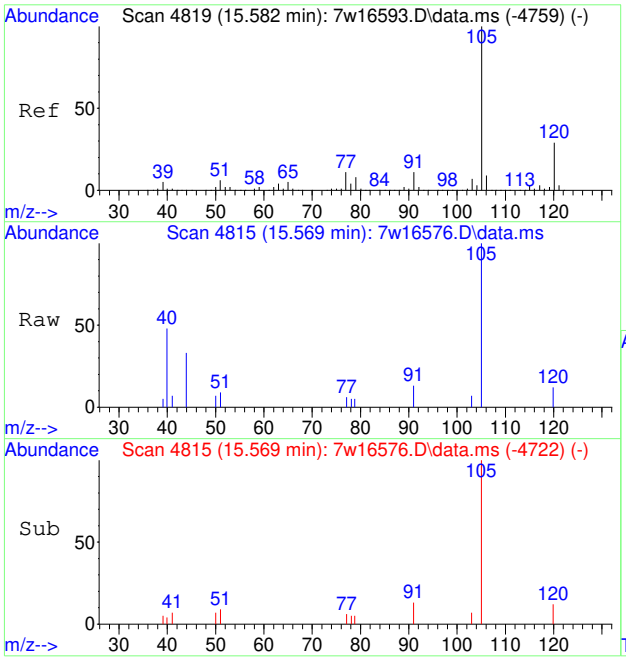


#91
N-PROPYLBENZENE
Concen: 0.03 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 688

Ion	Ratio	Lower	Upper
120	100		
105	0.0	10.6	19.6#

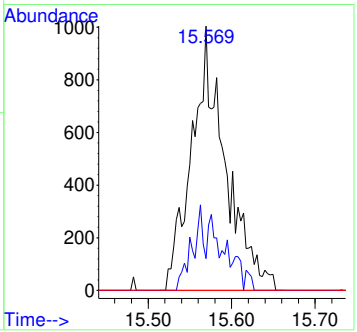


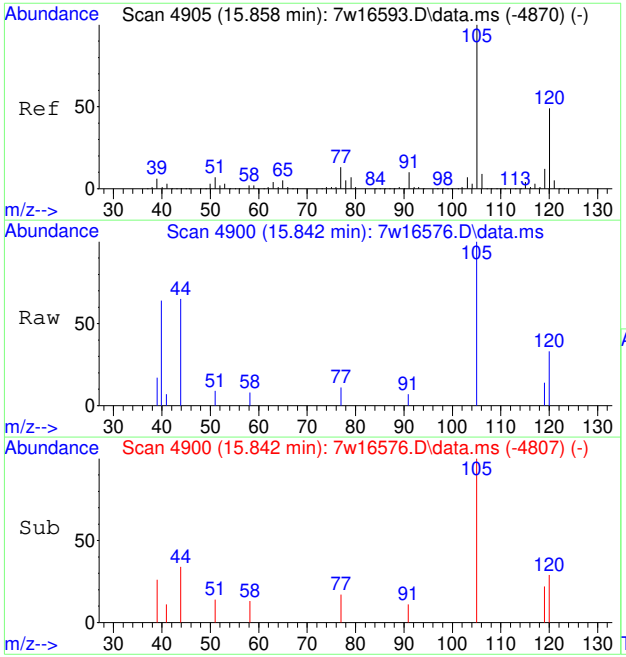


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2796

Ion	Ratio	Lower	Upper
105	100		
120	27.0	21.8	40.4
119	0.0	1.7	3.1#

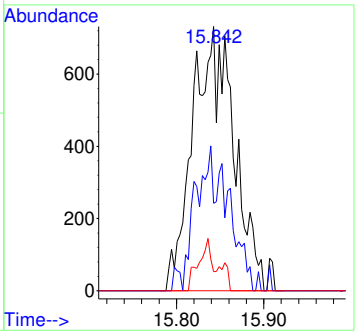


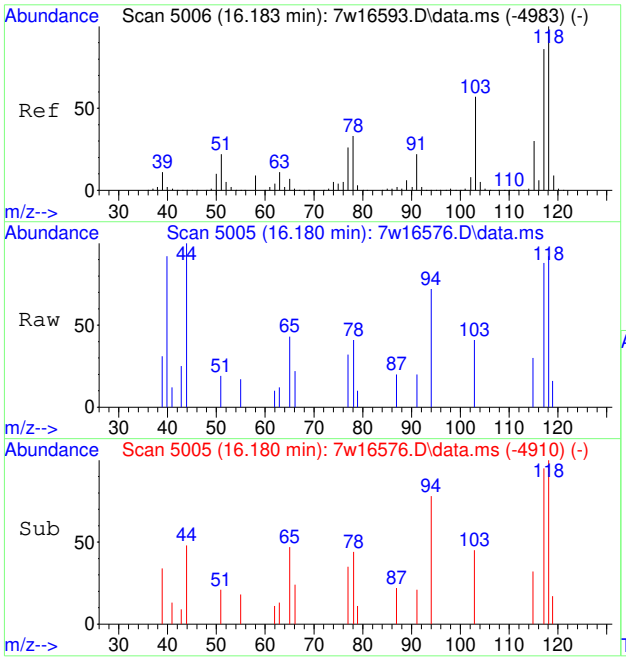


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2434

Ion	Ratio	Lower	Upper
105	100		
120	43.9	37.2	69.2
91	8.6	7.5	13.9

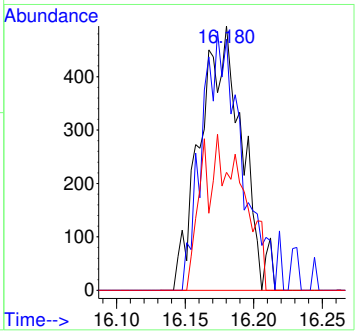


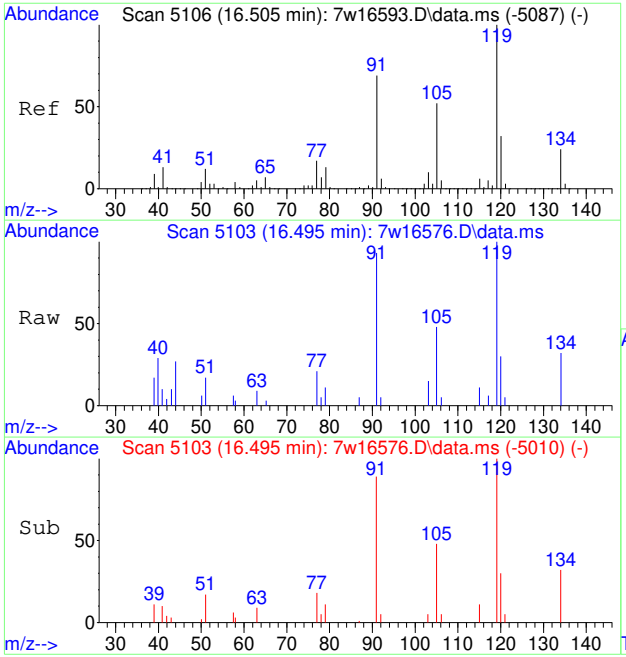


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:118 Resp: 1042

Ion	Ratio	Lower	Upper
118	100		
117	94.9	59.9	111.3
103	57.4	36.2	67.2

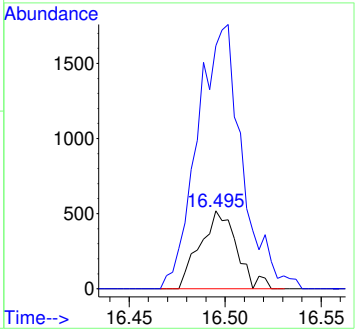


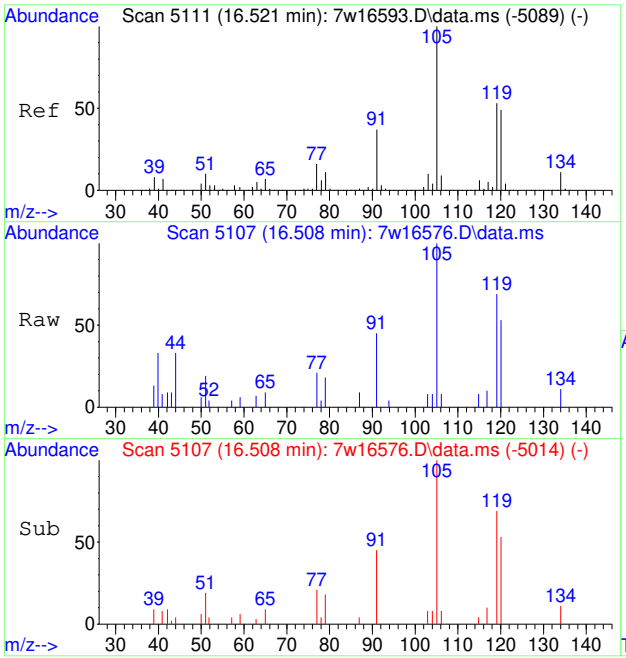


#95
TERT-BUTYLBENZENE
Concen: 0.05 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 685

Ion	Ratio	Lower	Upper
134	100		
119	417.1	307.9	571.7

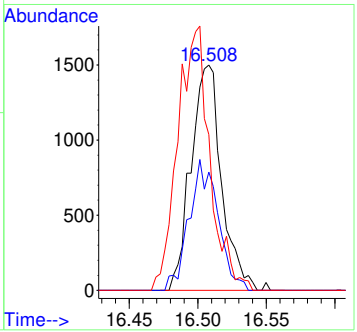


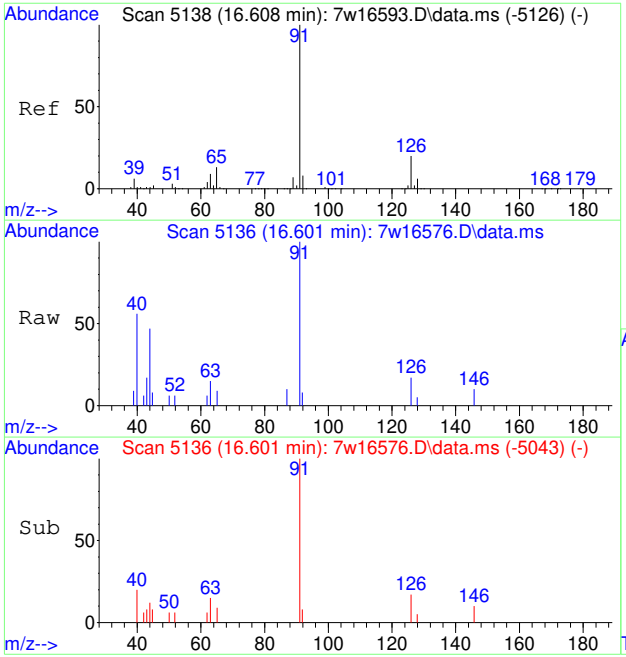


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2331

Ion	Ratio	Lower	Upper
105	100		
120	54.7	40.9	75.9
119	122.6	78.0	144.8

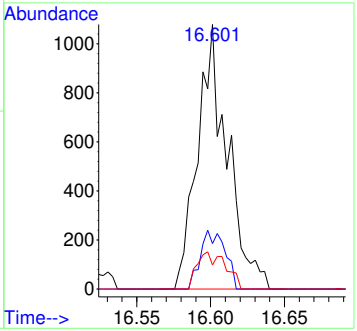


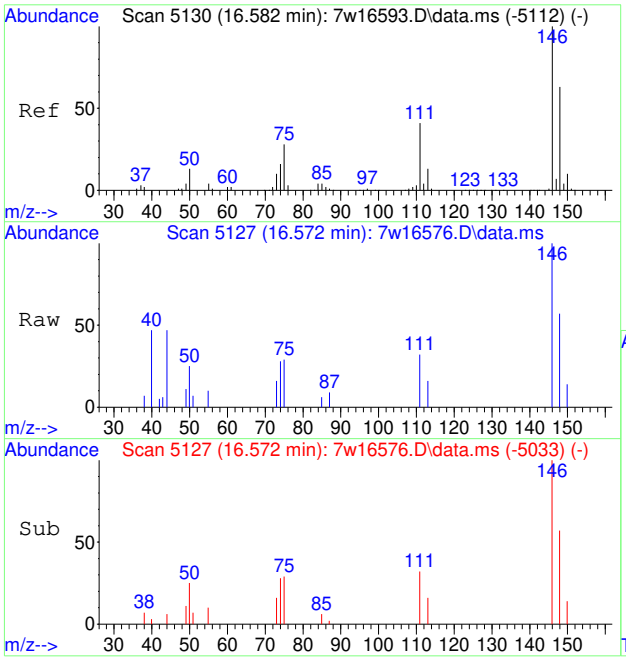


#97
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1503

Ion	Ratio	Lower	Upper
91	100		
126	18.2	17.2	32.0
65	13.4	7.3	13.7

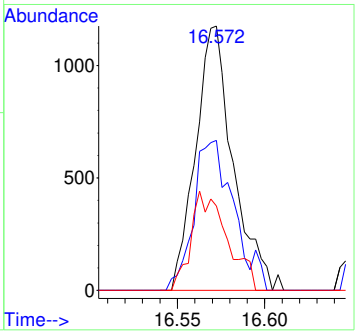


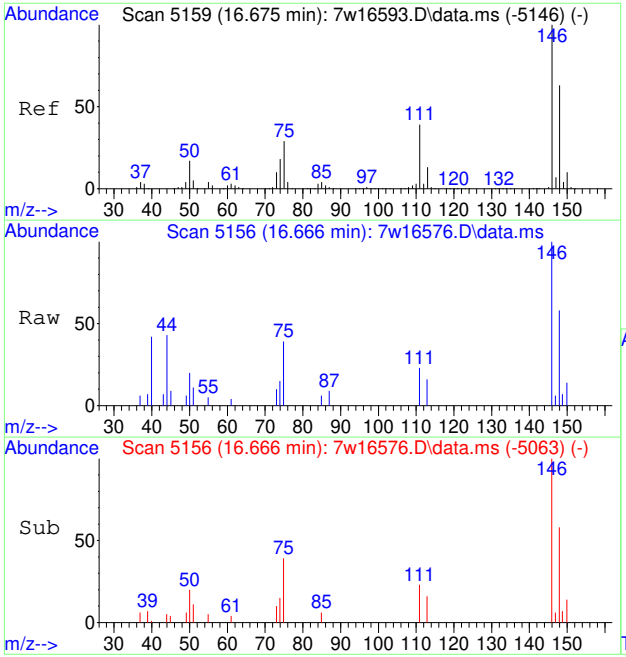


#98
M-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1758

Ion	Ratio	Lower	Upper
146	100		
148	60.6	44.2	82.2
111	35.9	25.4	47.2

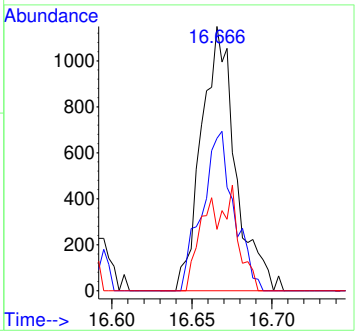


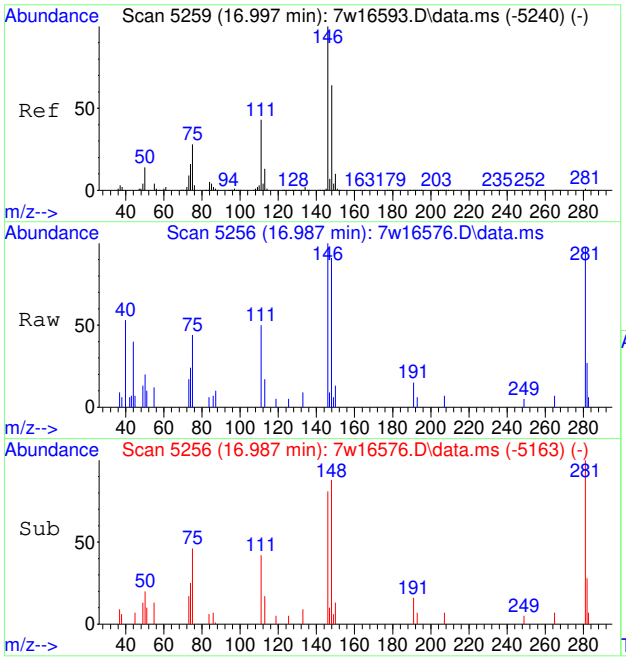


#99
P-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1701

Ion	Ratio	Lower	Upper
146	100		
148	56.6	44.7	82.9
111	37.6	24.8	46.1

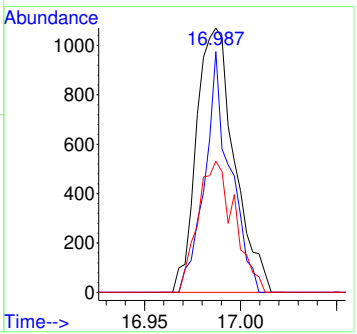


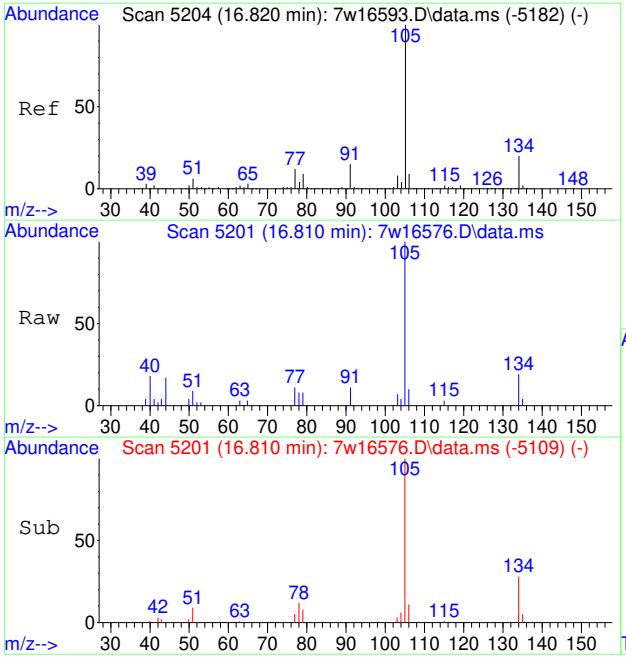


#100
O-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1470

Ion	Ratio	Lower	Upper
146	100		
148	60.7	44.6	82.8
111	48.1	26.9	50.1

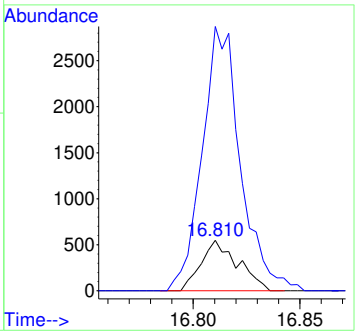


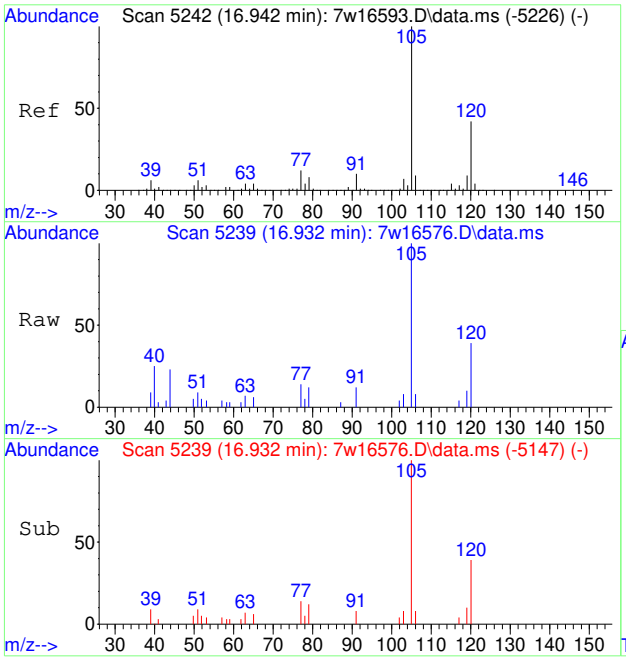


#101
SEC-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.810 min Scan# 5201
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 660

Ion	Ratio	Lower	Upper
134	100		
105	543.6	314.4	584.0

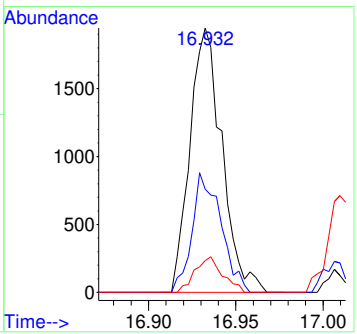


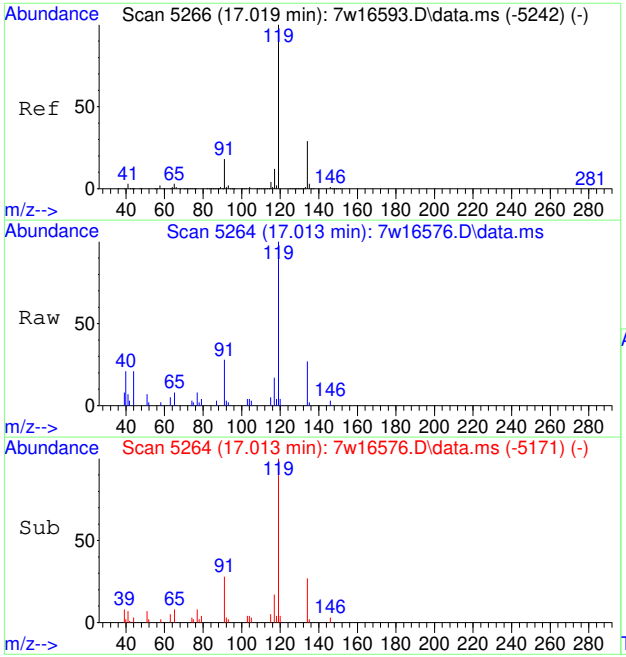


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2483

Ion	Ratio	Lower	Upper
105	100		
120	40.8	31.9	59.2
91	11.6	7.3	13.5

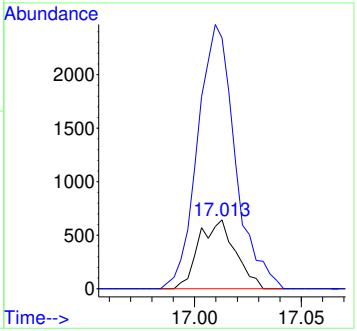


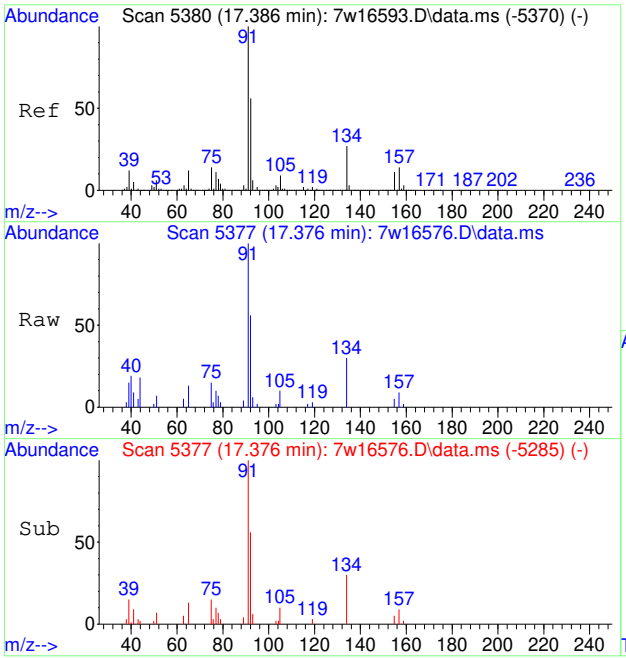


#103
P-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 767

Ion	Ratio	Lower	Upper
134	100		
119	394.7	253.7	471.3

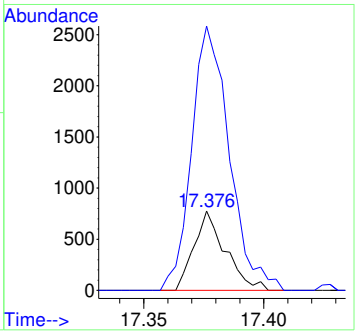


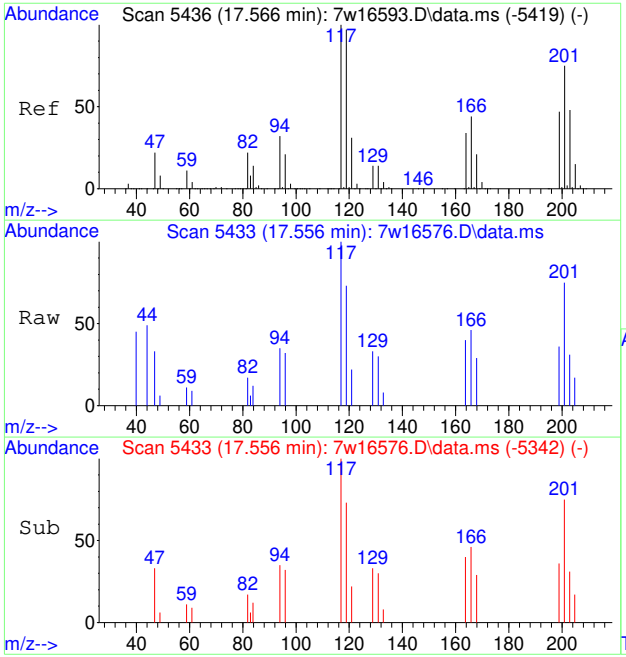


#104
N-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 703

Ion	Ratio	Lower	Upper
134	100		
91	401.0	231.1	429.1

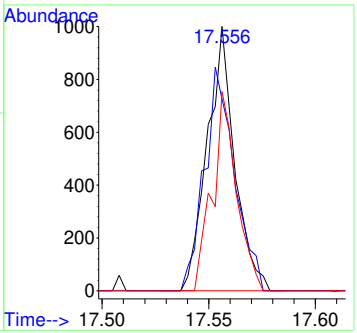


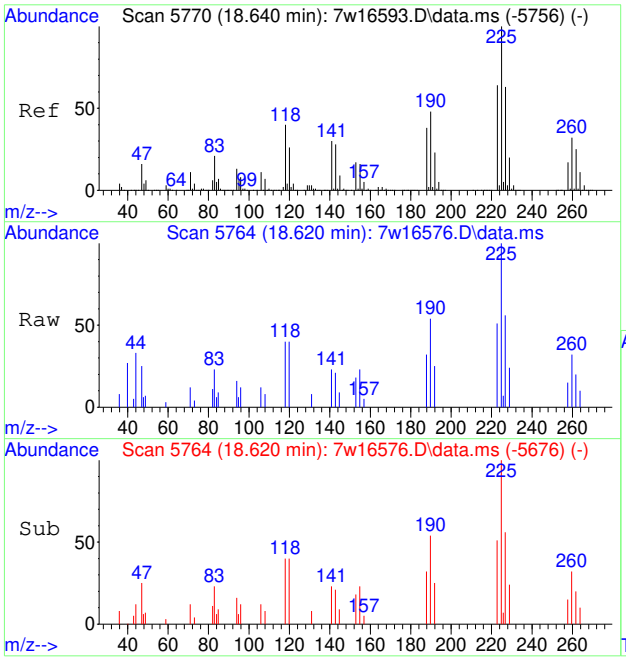


#105
HEXACHLOROETHANE
Concen: 0.04 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 895

Ion	Ratio	Lower	Upper
117	100		
119	92.8	68.3	126.9
201	66.3	45.9	85.3

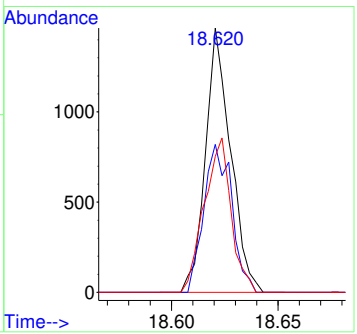


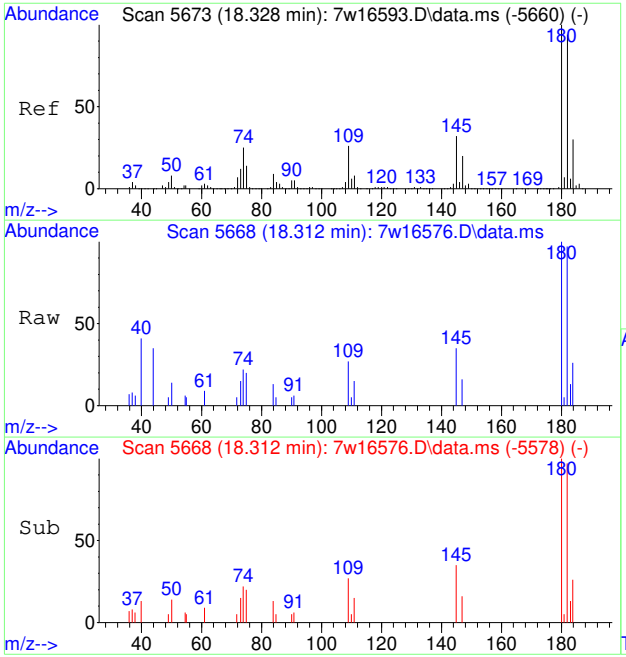


#106
HEXACHLOROBUTADIENE
Concen: 0.04 PPBV
RT: 18.620 min Scan# 5764
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:225 Resp: 1203

Ion	Ratio	Lower	Upper
225	100		
227	62.2	44.4	82.5
223	62.3	44.7	83.1

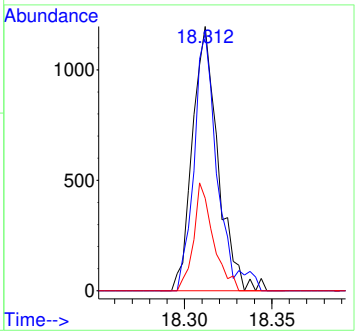


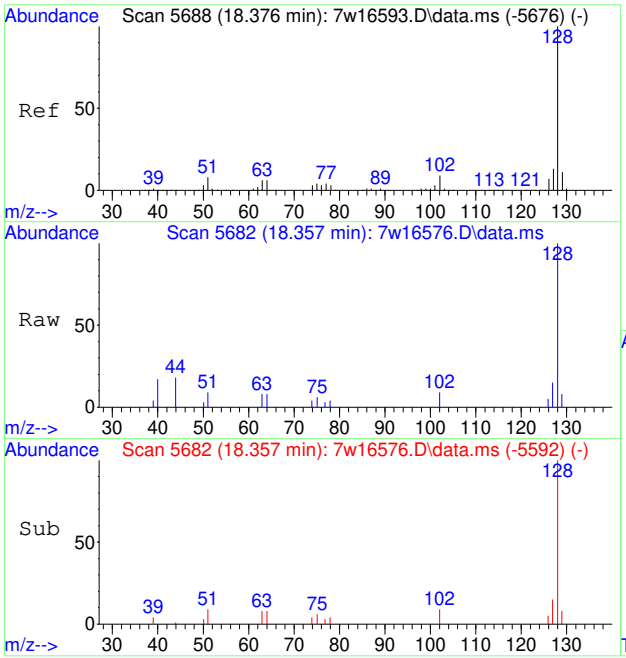


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.03 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:180 Resp: 1219

Ion	Ratio	Lower	Upper
180	100		
182	88.5	66.8	124.0
145	31.4	23.1	42.9

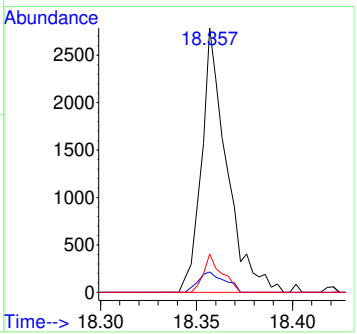




#108
NAPHTHALENE
Concen: 0.03 PPBV
RT: 18.357 min Scan# 5682
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:128 Resp: 2545

Ion	Ratio	Lower	Upper
128	100		
129	8.1	7.3	13.7
127	10.4	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16576.D
Injection Time: 08/07/25 04:00

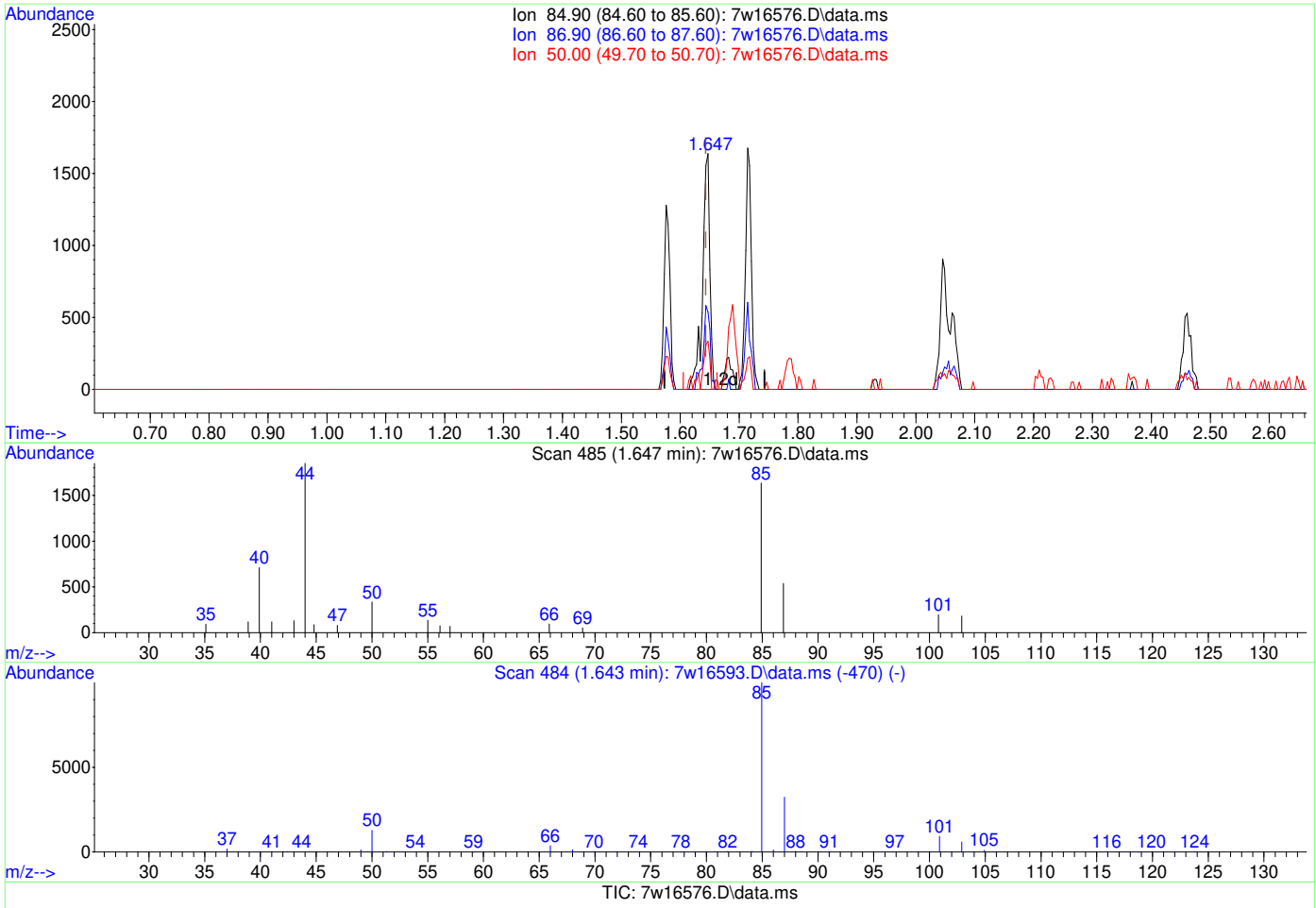
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.04PPBV

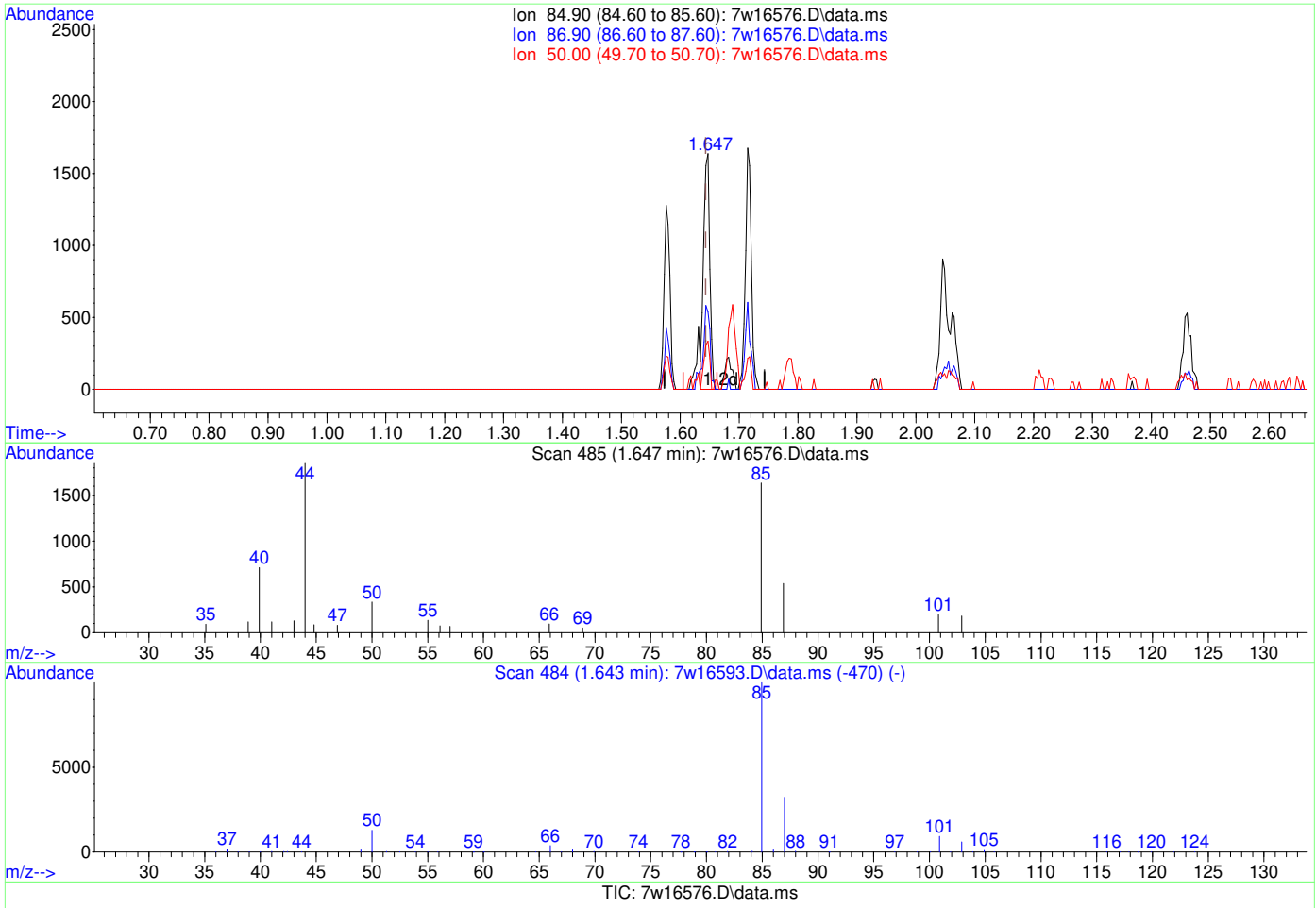
response 1388

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.65
50.00	17.30	23.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.03PPBV m

response 1176

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	40.90
50.00	17.30	27.64#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	113084	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	573427	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	530262	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	113084	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	422829	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	1638	0.11	PPBV		98
3) FREON 152A	1.608	65	909	0.13	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	372	0.12	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	1574	0.10	PPBV		76
6) DICHLORODIFLUOROMETHANE	1.647	85	3122m	0.09	PPBV		
7) PROPYLENE	1.627	41	1060	0.12	PPBV		84
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	2846	0.11	PPBV	#	86
9) FREON 114	1.717	85	3009	0.10	PPBV		85
10) CHLOROMETHANE	1.689	52	465	0.12	PPBV		93
11) VINYL CHLORIDE	1.746	62	1526	0.11	PPBV		97
12) 1,3-BUTADIENE	1.785	54	1299	0.12	PPBV		88
13) N-BUTANE	1.801	43	2465	0.13	PPBV	#	49
14) BROMOMETHANE	1.859	94	1194	0.11	PPBV		98
15) CHLOROETHANE	1.907	64	800	0.11	PPBV		95
16) DICHLOROFLUOROMETHANE	1.933	67	2916	0.11	PPBV		92
17) ACETONITRILE	2.000	41	1673	0.14	PPBV	#	91
18) ACROLEIN	2.036	56	823	0.13	PPBV		86
19) FREON 123	2.049	83	2970	0.11	PPBV		96
20) FREON 123A	2.065	117	1678	0.10	PPBV	#	33
21) TRICHLOROFLUOROMETHANE	2.129	101	3103	0.10	PPBV		96
24) PENTANE	2.242	42	1687	0.13	PPBV	#	90
25) IODOMETHANE	2.299	142	3122	0.11	PPBV		92
26) 1,1-DICHLOROETHYLENE	2.328	96	1351	0.12	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	3643	0.11	PPBV	#	75
29) BROMOETHENE	2.007	106	1160	0.10	PPBV		93
31) METHYLENE CHLORIDE	2.364	84	1574	0.14	PPBV	#	76
32) 3-CHLOROPROPENE	2.406	76	631	0.10	PPBV	#	54
33) FREON 113	2.460	151	1876	0.10	PPBV		81
34) TRANS-1,2-DICHLOROETHENE	2.685	96	1480	0.12	PPBV	#	73
35) TERTIARY BUTYL ALCOHOL	2.348	59	3930	0.12	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.798	73	4162	0.11	PPBV	#	71
37) TETRAHYDROFURAN	3.496	72	660	0.11	PPBV		88
38) HEXANE	3.238	57	2906	0.12	PPBV		87
39) VINYL ACETATE	2.824	86	343	0.10	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.759	63	2595	0.10	PPBV		96
41) METHYL ETHYL KETONE	2.933	72	844	0.13	PPBV	#	85
42) CIS-1,2-DICHLOROETHENE	3.113	96	1430	0.11	PPBV		80
43) DIISOPROPYL ETHER	3.248	59	742	0.11	PPBV		95
44) ETHYL ACETATE	3.258	61	462	0.09	PPBV		87
45) METHYL ACRYLATE	3.241	55	3222	0.11	PPBV	#	96
46) CHLOROFORM	3.258	83	2745	0.10	PPBV	#	90
47) 2,4-DIMETHYLPENTANE	3.740	57	3064	0.11	PPBV		95
48) 1,1,1-TRICHLOROETHANE	3.820	97	2869	0.10	PPBV		93
49) CARBON TETRACHLORIDE	4.235	117	2721	0.09	PPBV		97
50) 1,2-DICHLOROETHANE	3.663	62	2043	0.10	PPBV		96
51) BENZENE	4.126	78	4491	0.12	PPBV		95
53) CYCLOHEXANE	4.328	84	1883	0.11	PPBV	#	65
54) 2,3-DIMETHYLPENTANE	4.582	71	954	0.11	PPBV	#	54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

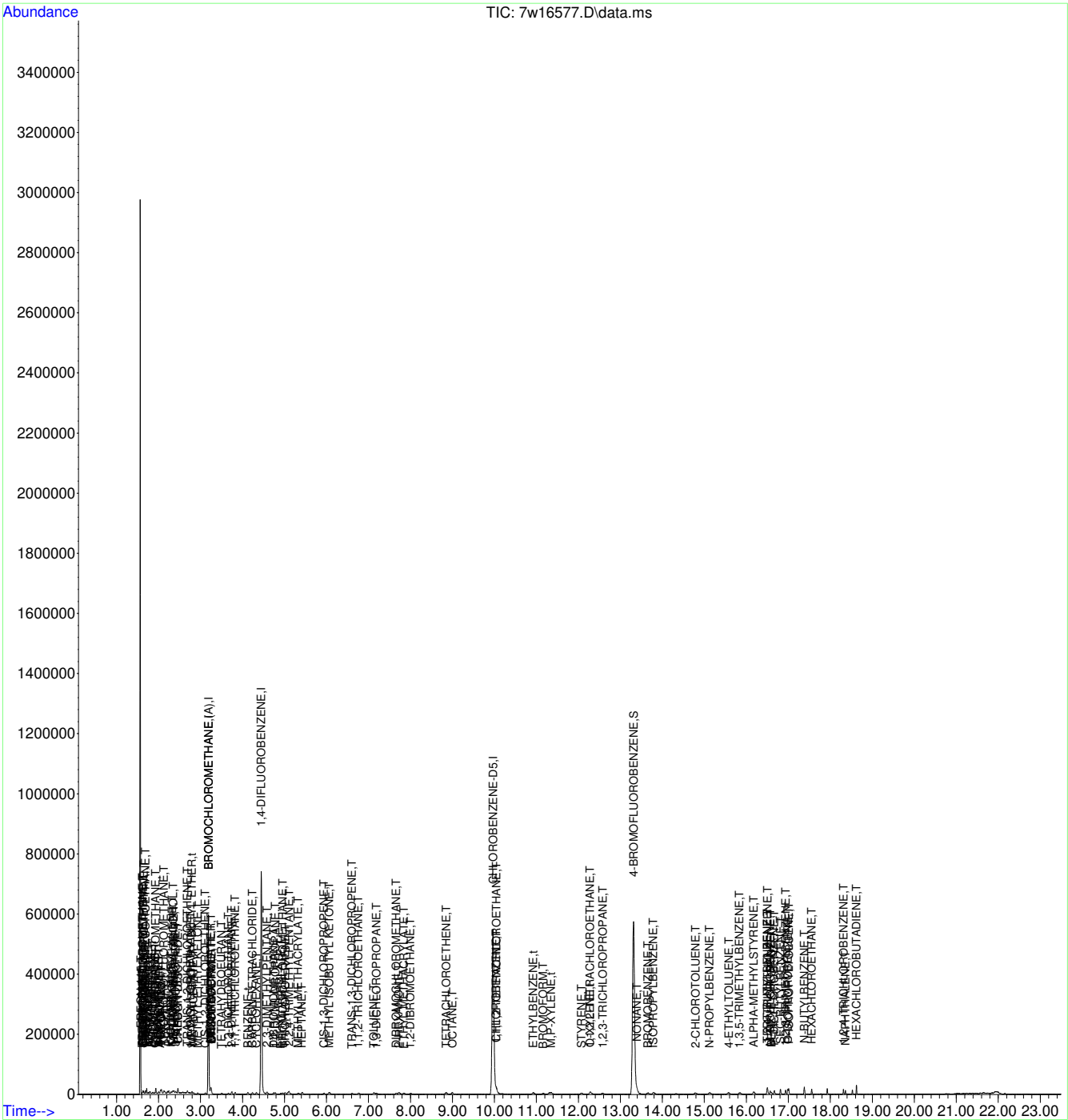
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) TRICHLOROETHENE	5.016	95	1997	0.11	PPBV		83
56) 1,2-DICHLOROPROPANE	4.785	63	1753	0.11	PPBV		85
57) DIBROMOMETHANE	4.746	174	1723	0.11	PPBV		90
58) ETHYL ACRYLATE	4.910	55	3841	0.10	PPBV	#	93
59) BROMODICHLOROMETHANE	4.958	83	2818	0.09	PPBV		96
60) 2,2,4-TRIMETHYLPENTANE	5.106	57	9397	0.12	PPBV	#	91
62) HEPTANE	5.415	43	2892	0.11	PPBV		85
63) METHYL METHACRYLATE	5.322	69	1510	0.10	PPBV		78
64) METHYL ISOBUTYL KETONE	6.061	58	2096	0.14	PPBV	#	87
65) CIS-1,3-DICHLOROPROPENE	5.936	75	2385	0.09	PPBV		97
66) TOLUENE	7.129	91	5187	0.11	PPBV		95
67) 1,3-DICHLOROPROPANE	7.187	76	2497	0.10	PPBV	#	93
68) TRANS-1,3-DICHLOROPROPENE	6.605	75	1972	0.08	PPBV		93
69) 1,1,2-TRICHLOROETHANE	6.759	83	1417	0.10	PPBV		93
70) 2-HEXANONE	7.714	58	3348	0.17	PPBV	#	87
71) ETHYL METHACRYLATE	7.843	69	2476	0.10	PPBV	#	74
72) TETRACHLOROETHENE	8.849	164	1845	0.11	PPBV		97
73) DIBROMOCHLOROMETHANE	7.663	129	2664	0.09	PPBV		97
74) 1,2-DIBROMOETHANE	7.991	107	2697	0.11	PPBV	#	94
75) OCTANE	9.000	43	3873	0.11	PPBV		88
77) 1,1,1,2-TETRACHLOROETHANE	10.045	131	2123	0.10	PPBV		97
78) CHLOROBENZENE	10.035	112	4090	0.11	PPBV	#	79
79) ETHYLBENZENE	10.923	91	6930	0.11	PPBV		100
80) M,P-XYLENE	11.347	91	10889	0.22	PPBV	#	87
81) O-XYLENE	12.277	91	5536	0.11	PPBV	#	76
82) STYRENE	12.071	104	3856	0.10	PPBV	#	49
83) NONANE	13.389	43	4193	0.11	PPBV		81
84) BROMOFORM	11.158	173	2131	0.08	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.277	83	3686	0.10	PPBV	#	95
86) 1,2,3-TRICHLOROPROPANE	12.579	75	2860	0.10	PPBV	#	99
88) ISOPROPYLBENZENE	13.778	120	2075	0.11	PPBV		81
89) BROMOBENZENE	13.649	77	4058	0.11	PPBV	#	70
90) 2-CHLOROTOLUENE	14.788	126	1780	0.10	PPBV	#	61
91) N-PROPYLBENZENE	15.122	120	1971	0.10	PPBV		94
92) 4-ETHYLTOLUENE	15.582	105	7463	0.10	PPBV	#	96
93) 1,3,5-TRIMETHYLBENZENE	15.829	105	6383	0.10	PPBV	#	34
94) ALPHA-METHYLSTYRENE	16.170	118	2929	0.09	PPBV		96
95) TERT-BUTYLBENZENE	16.495	134	1569	0.10	PPBV		94
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	6125	0.10	PPBV		95
97) BENZYL CHLORIDE	16.598	91	3788	0.07	PPBV	#	87
98) M-DICHLOROBENZENE	16.566	146	4159	0.10	PPBV		96
99) P-DICHLOROBENZENE	16.662	146	4312	0.10	PPBV		95
100) O-DICHLOROBENZENE	16.987	146	4193	0.11	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	2000	0.11	PPBV		89
102) 1,2,3-TRIMETHYLBENZENE	16.935	105	6206	0.10	PPBV		94
103) P-ISOPROPYLTOLUENE	17.009	134	2027	0.10	PPBV		86
104) N-BUTYLBENZENE	17.376	134	1794	0.09	PPBV		70
105) HEXACHLOROETHANE	17.556	117	2143	0.09	PPBV		99
106) HEXACHLOROBUTADIENE	18.624	225	3071	0.12	PPBV		96
107) 1,2,4-TRICHLOROBENZENE	18.312	180	2908	0.08	PPBV		97
108) NAPHTHALENE	18.360	128	6418	0.08	PPBV		99

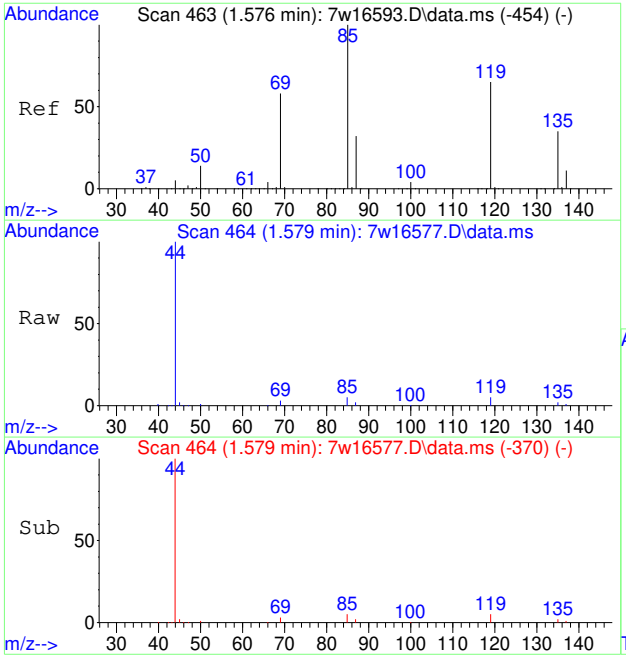
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

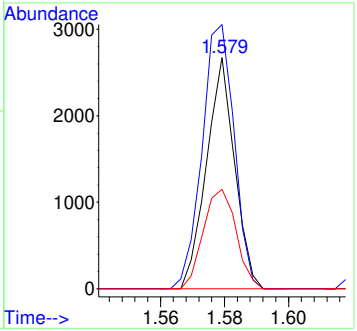


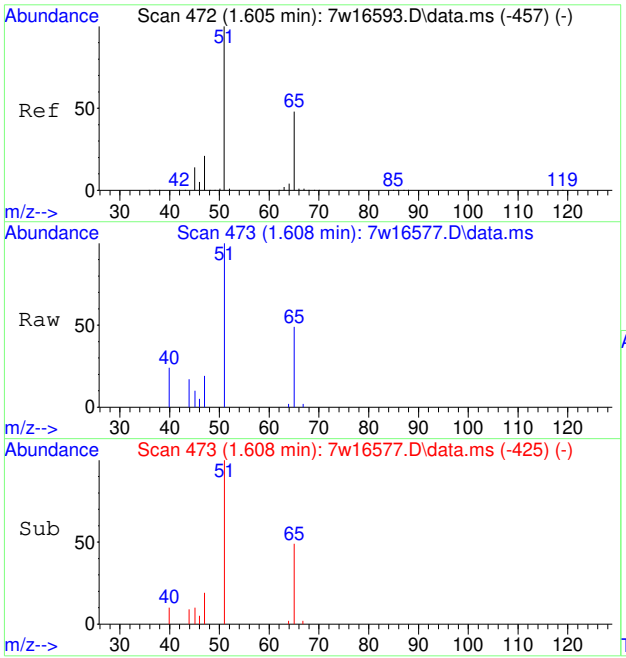


#2
FREON 115
Concen: 0.11 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:119 Resp: 1638

Ion	Ratio	Lower	Upper
119	100		
85	130.1	90.9	168.7
135	50.1	38.2	71.0

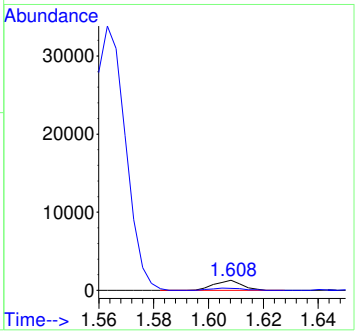


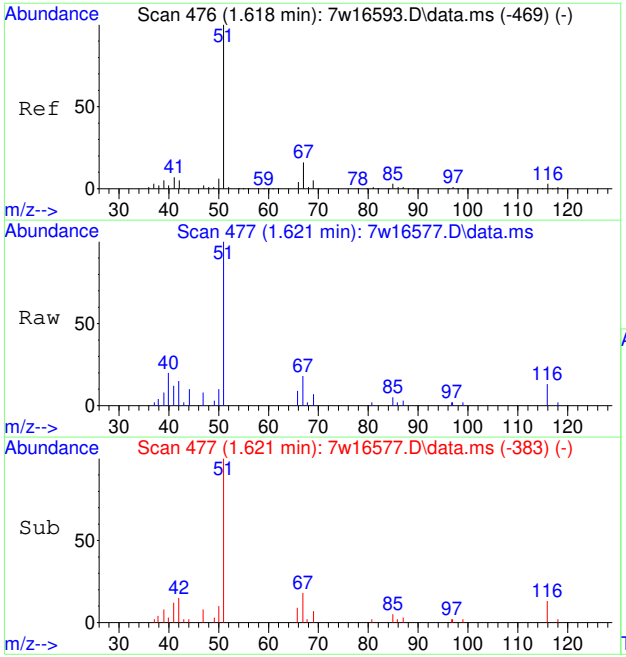


#3
FREON 152A
Concen: 0.13 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 909

Ion	Ratio	Lower	Upper
65	100		
45	25.6	20.6	38.4

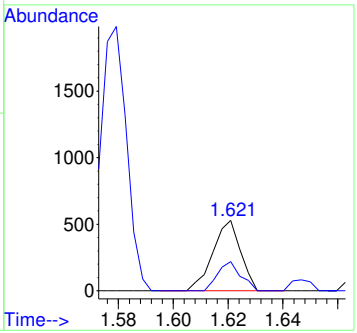


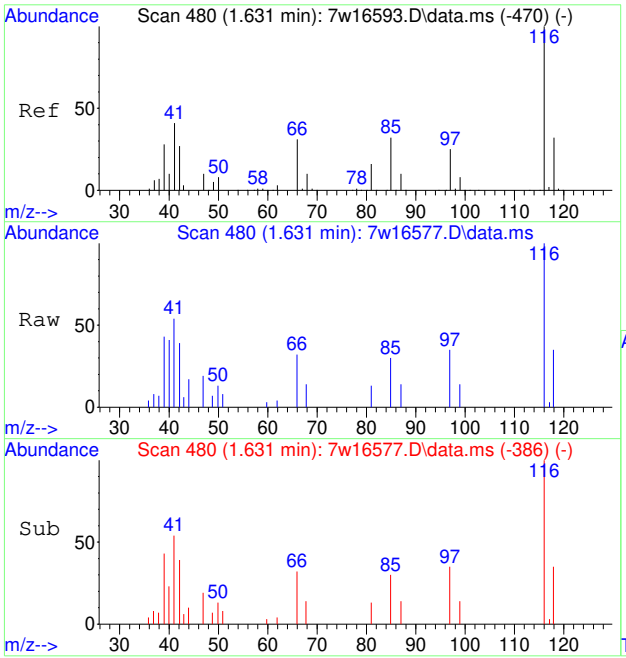


#4
CHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 372

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

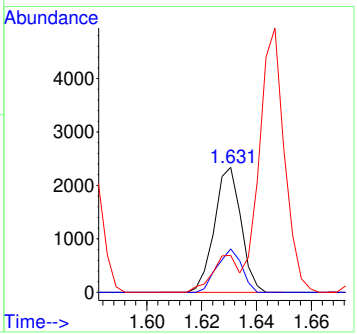


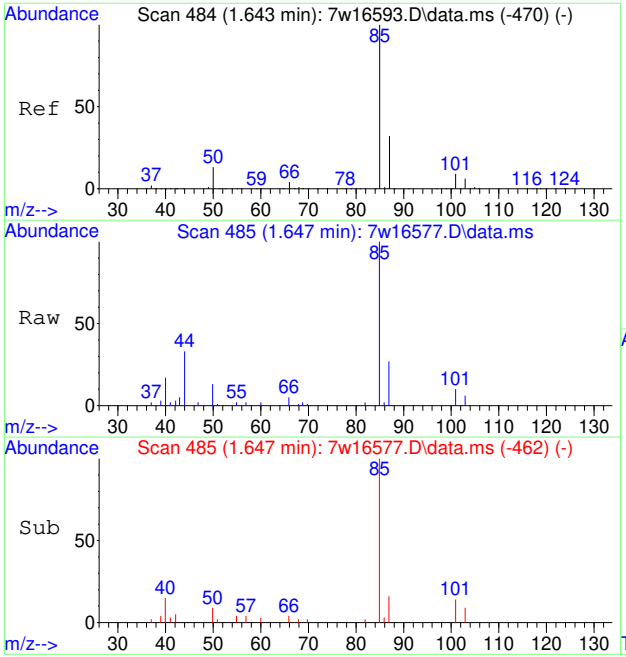


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:116 Resp: 1574

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.7	42.1
85	227.6	194.7	361.7

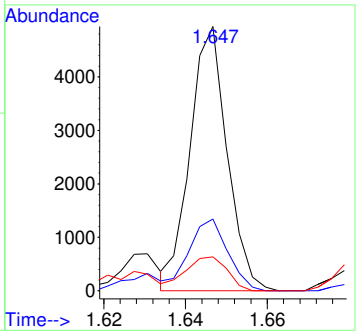


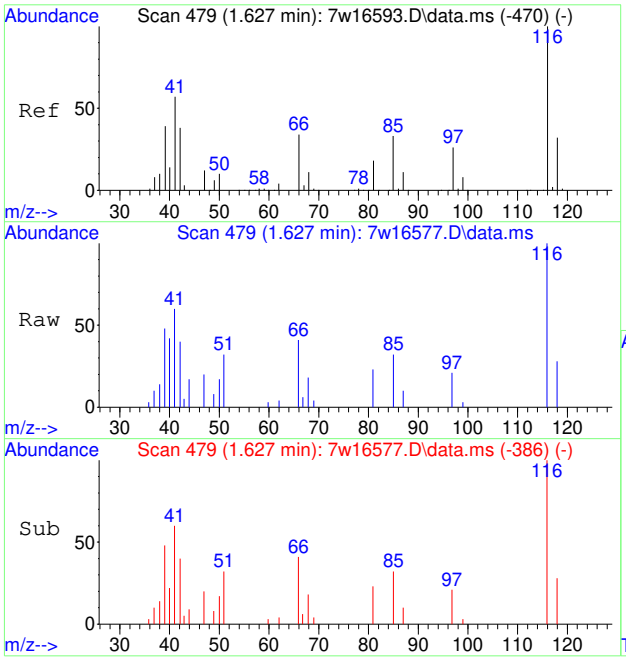


#6
DICHLORODIFLUOROMETHANE
Concen: 0.09 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3122

Ion	Ratio	Lower	Upper
85	100		
87	34.8	23.1	42.9
50	24.8	12.1	22.5#

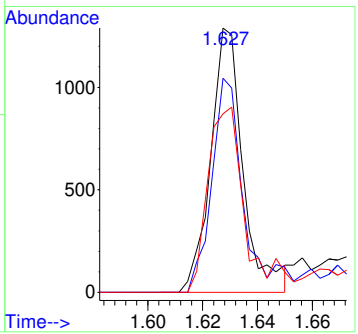


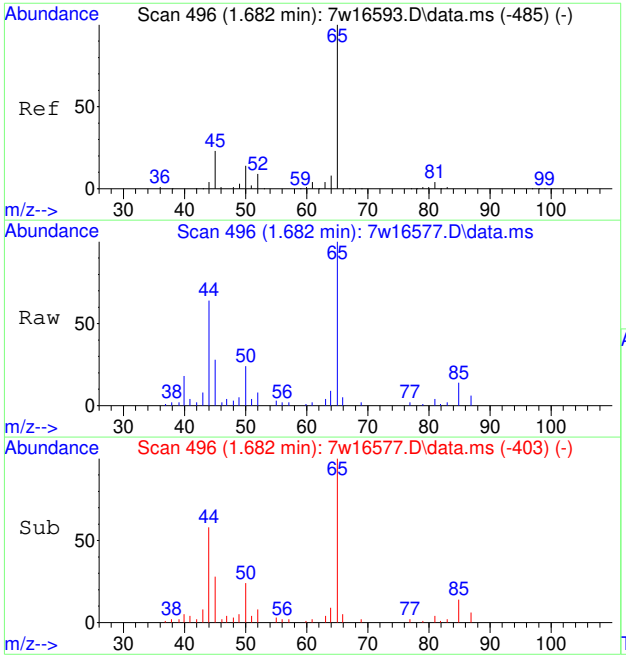


#7
PROPYLENE
Concen: 0.12 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1060

Ion	Ratio	Lower	Upper
41	100		
39	84.6	51.0	94.8
42	80.7	46.6	86.6

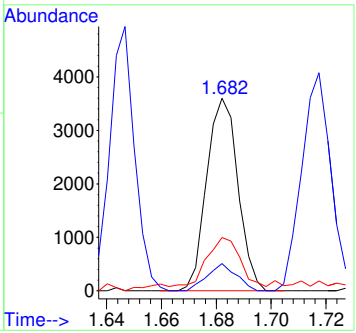


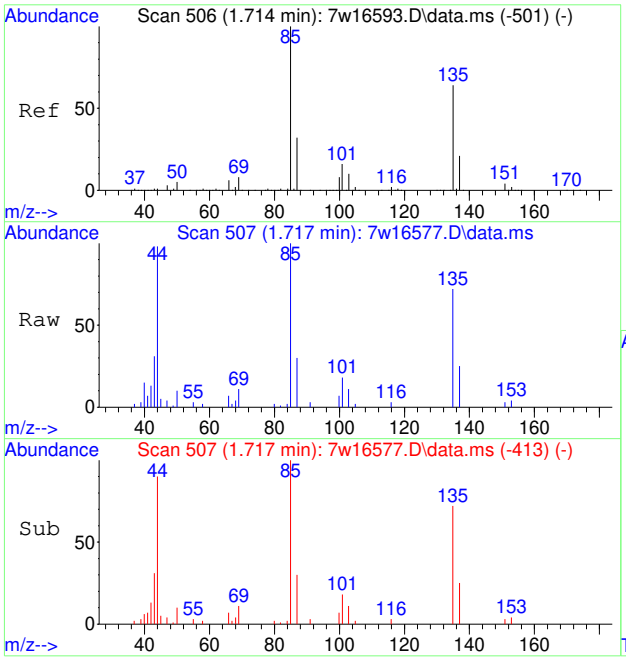


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.11 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 2846

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	35.0	17.0	31.6#

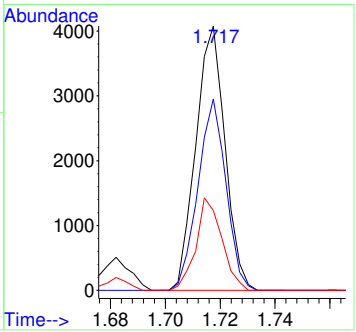


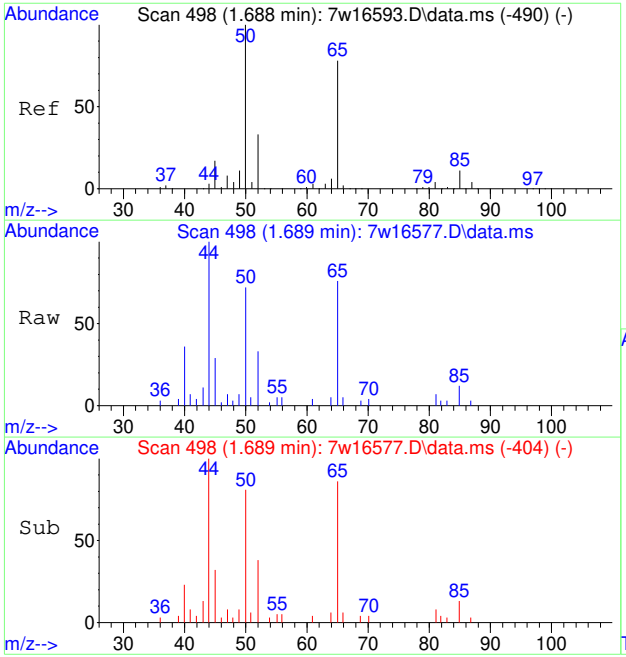


#9
FREON 114
Concen: 0.10 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3009

Ion	Ratio	Lower	Upper
85	100		
135	69.5	61.3	113.9
87	31.1	23.2	43.0

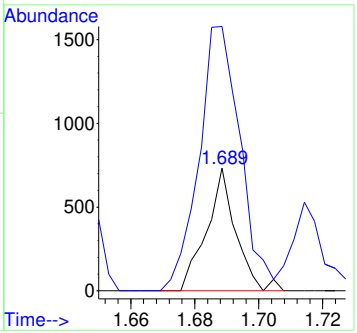


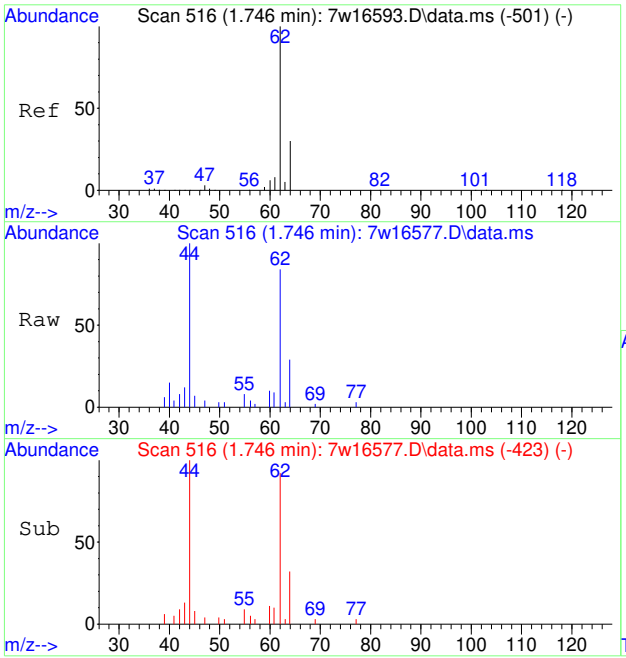


#10
CHLOROMETHANE
Concen: 0.12 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 52 Resp: 465

Ion	Ratio	Lower	Upper
52	100		
50	309.9	227.6	422.6

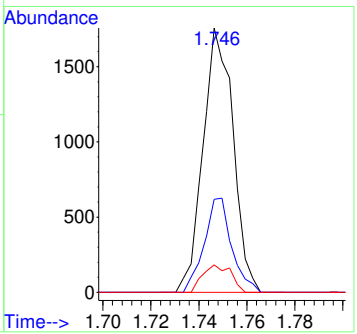


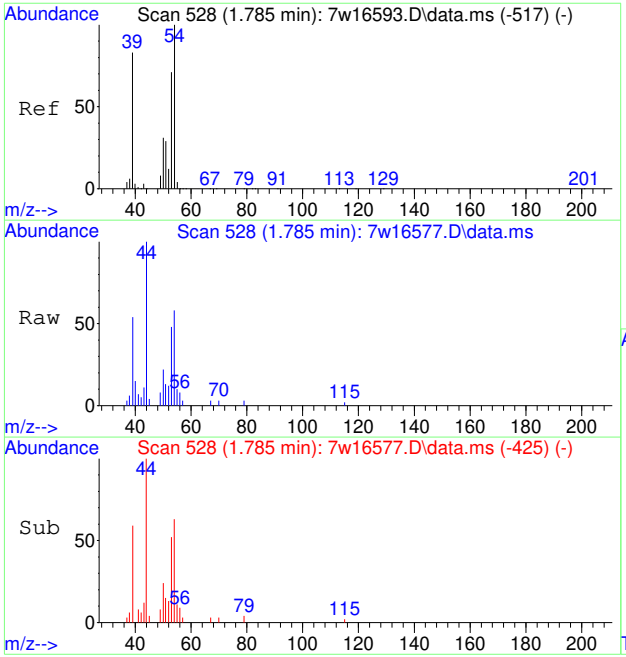


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 1526

Ion	Ratio	Lower	Upper
62	100		
64	32.6	21.6	40.2
61	9.8	5.7	10.7

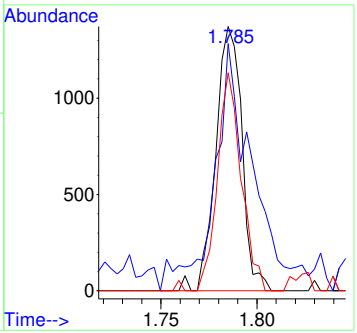


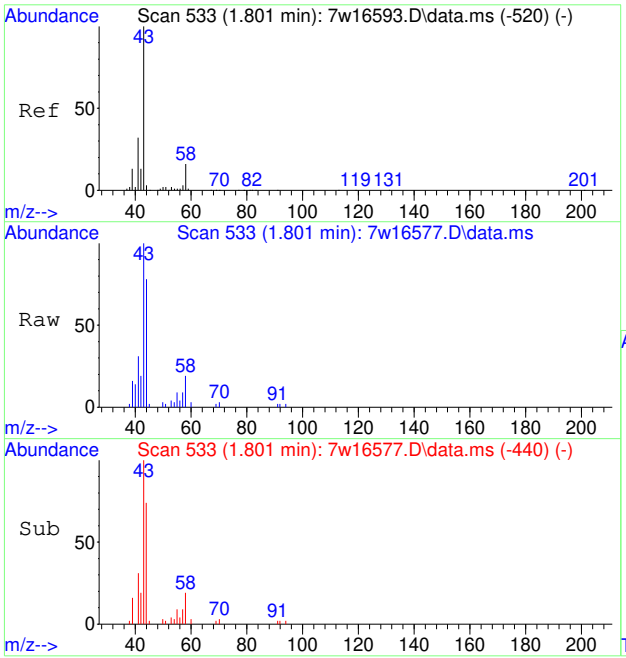


#12
1,3-BUTADIENE
Concen: 0.12 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 54 Resp: 1299

Ion	Ratio	Lower	Upper
54	100		
39	136.5	125.6	185.6
53	75.2	40.7	100.7

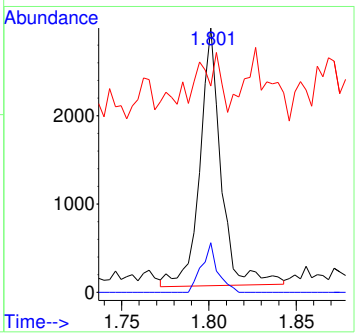


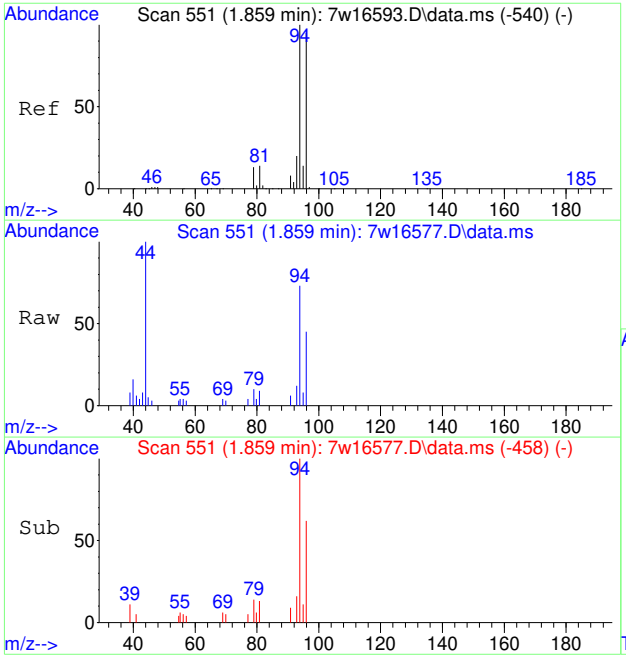


#13
N-BUTANE
Concen: 0.13 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2465

Ion	Ratio	Lower	Upper
43	100		
58	14.6	10.4	19.4
44	79.0	3.0	5.6#

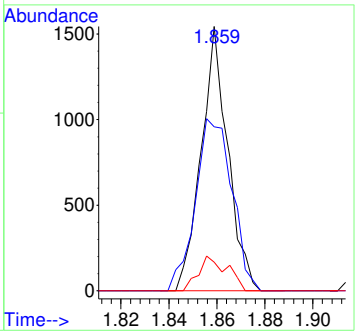


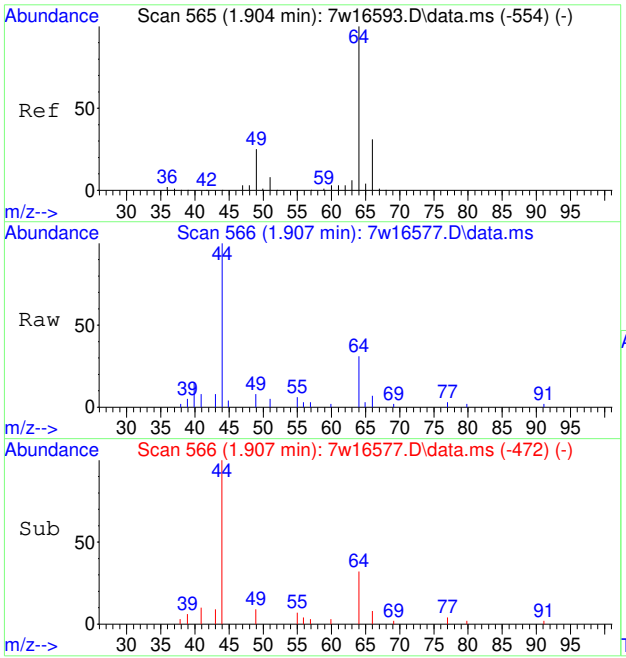


#14
BROMOMETHANE
Concen: 0.11 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 94 Resp: 1194

Ion	Ratio	Lower	Upper
94	100		
96	89.2	63.6	118.0
95	14.1	10.0	18.6

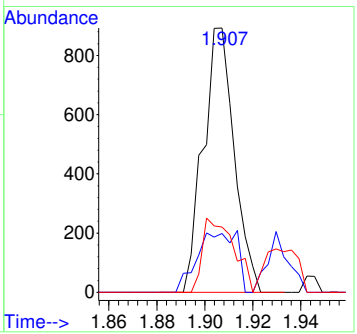


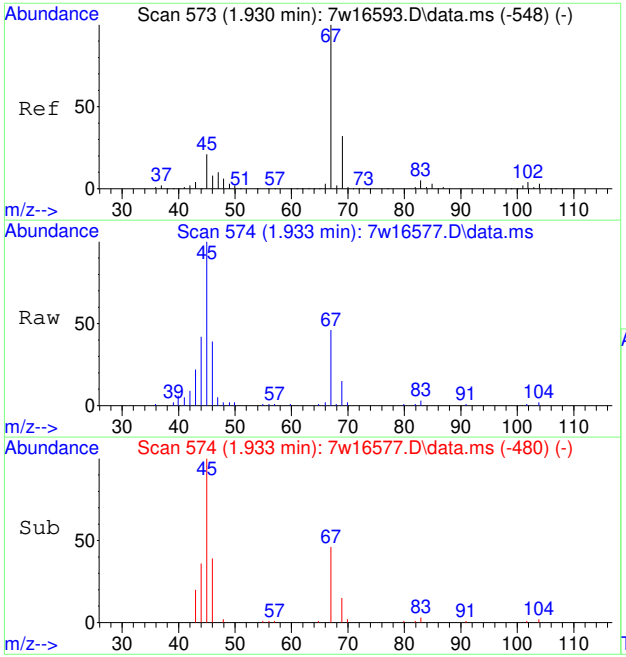


#15
CHLOROETHANE
Concen: 0.11 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 64 Resp: 800

Ion	Ratio	Lower	Upper
64	100		
66	29.4	23.0	42.6
49	28.2	21.5	39.9

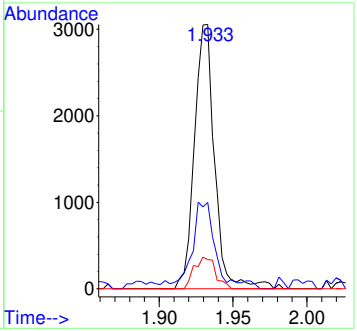


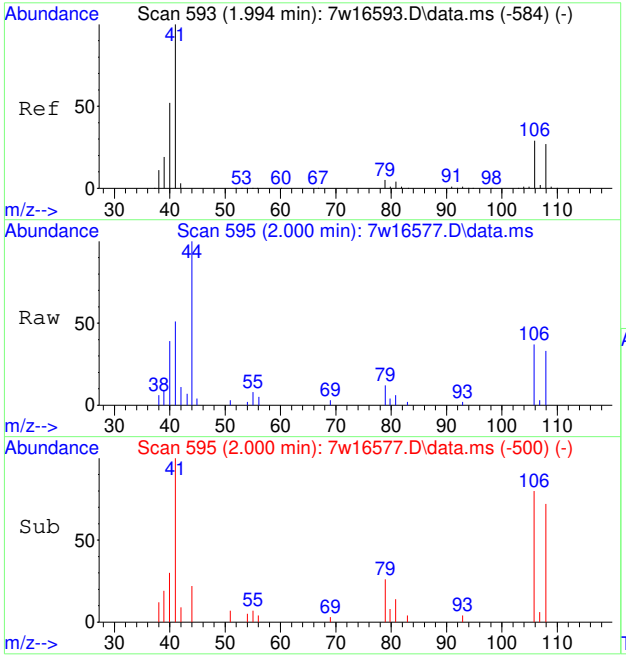


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 2916

Ion	Ratio	Lower	Upper
67	100		
69	39.0	23.2	43.0
47	12.6	9.6	17.8

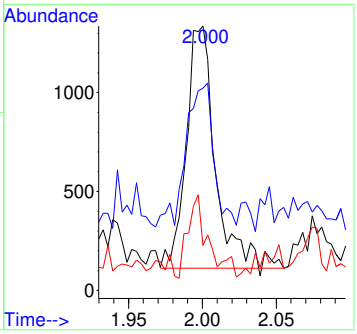


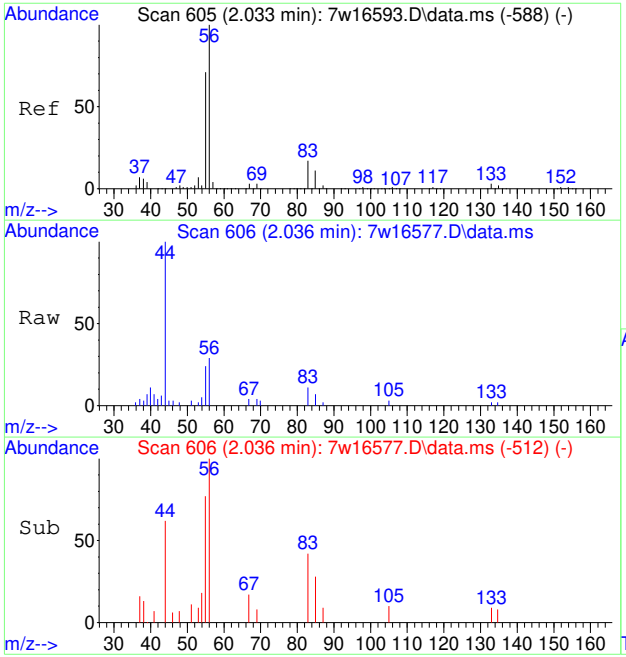


#17
ACETONITRILE
Concen: 0.14 PPBV
RT: 2.000 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1673

Ion	Ratio	Lower	Upper
41	100		
40	54.7	38.4	71.4
39	36.0	14.5	26.9#

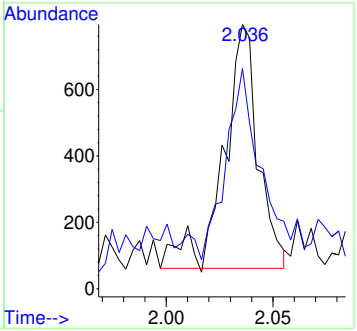


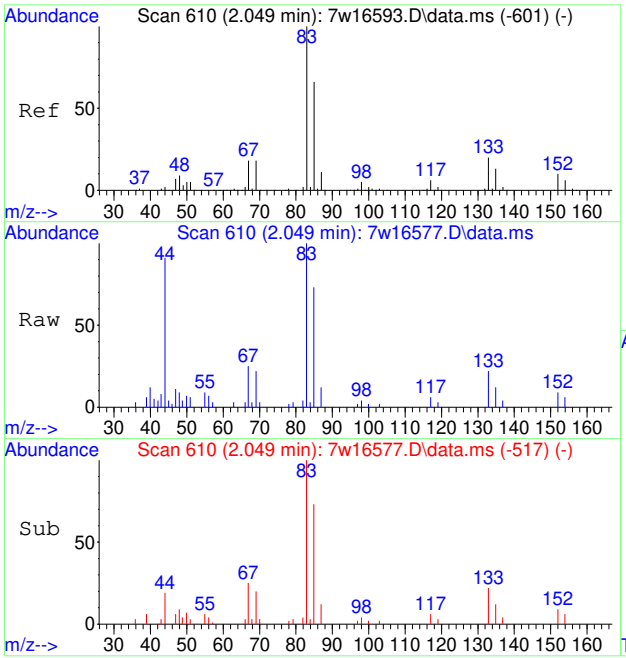


#18
ACROLEIN
Concen: 0.13 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 56 Resp: 823

Ion	Ratio	Lower	Upper
56	100		
55	85.2	51.2	95.2

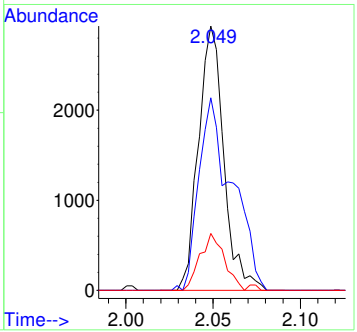


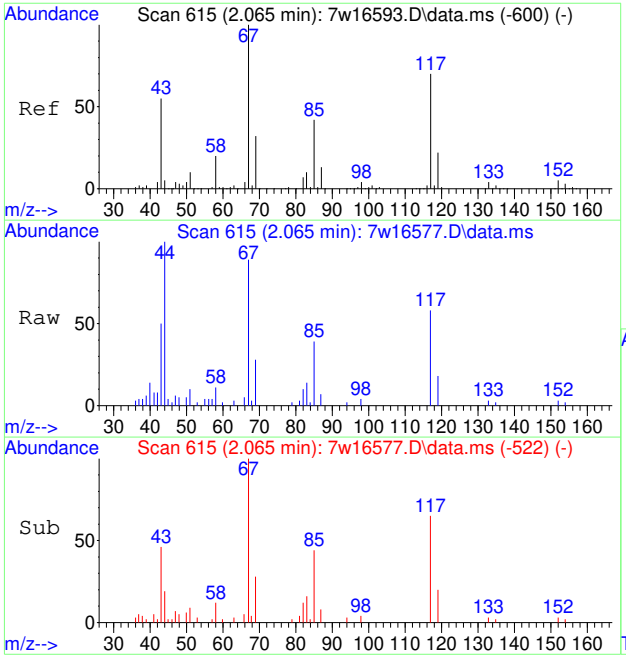


#19
FREON 123
Concen: 0.11 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2970

Ion	Ratio	Lower	Upper
83	100		
85	95.5	65.7	121.9
133	21.5	19.9	36.9

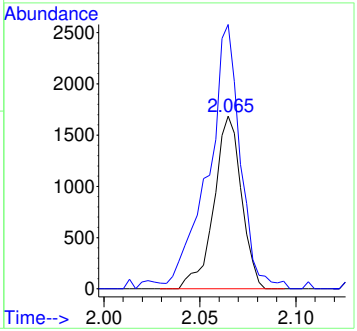


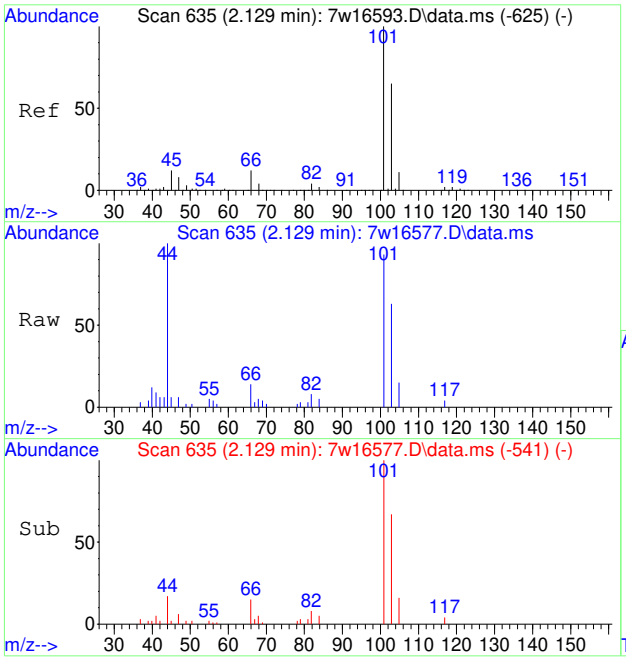


#20
FREON 123A
Concen: 0.10 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 1678

Ion	Ratio	Lower	Upper
117	100		
67	184.8	78.8	146.4#

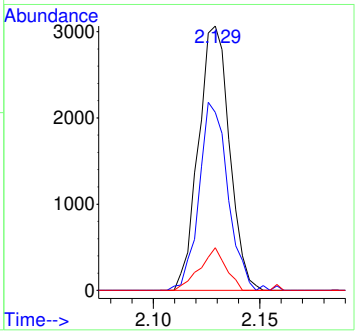


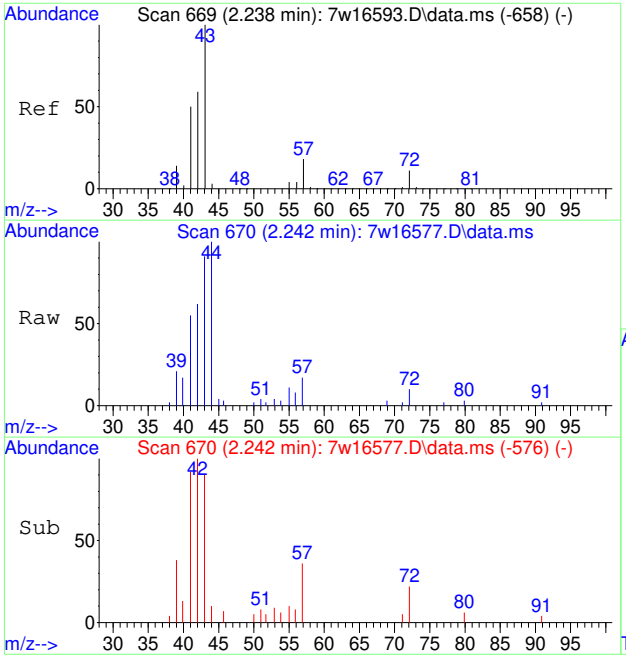


#21
TRICHLOROFLUOROMETHANE
Concen: 0.10 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:101 Resp: 3103

Ion	Ratio	Lower	Upper
101	100		
103	66.1	44.3	82.3
105	13.6	7.3	13.7

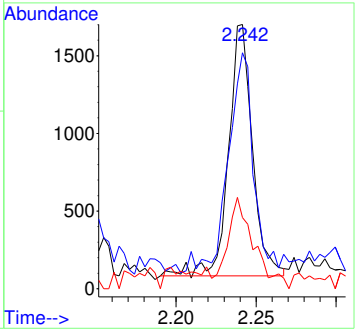


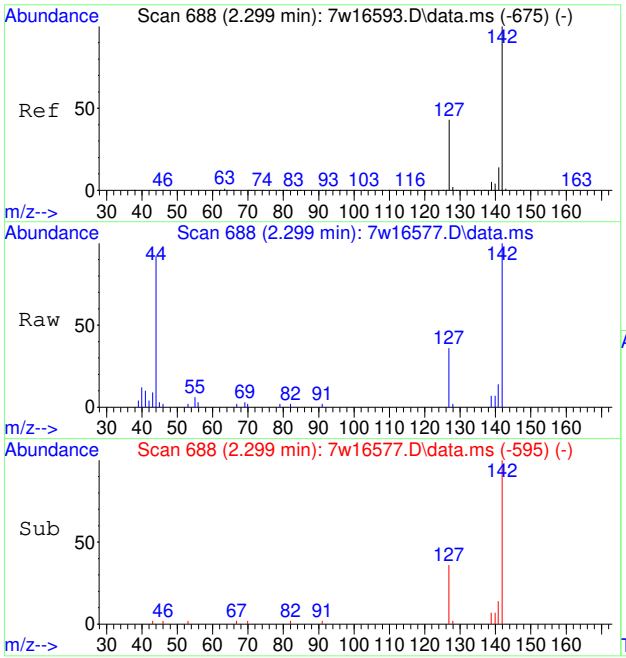


#24
PENTANE
Concen: 0.13 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 42 Resp: 1687

Ion	Ratio	Lower	Upper
42	100		
41	96.6	69.2	128.6
57	46.8	18.6	34.6#

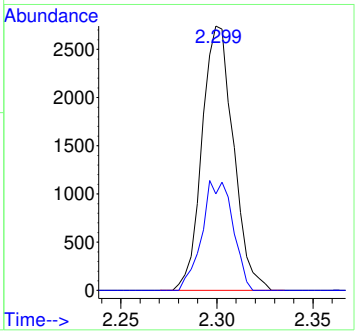


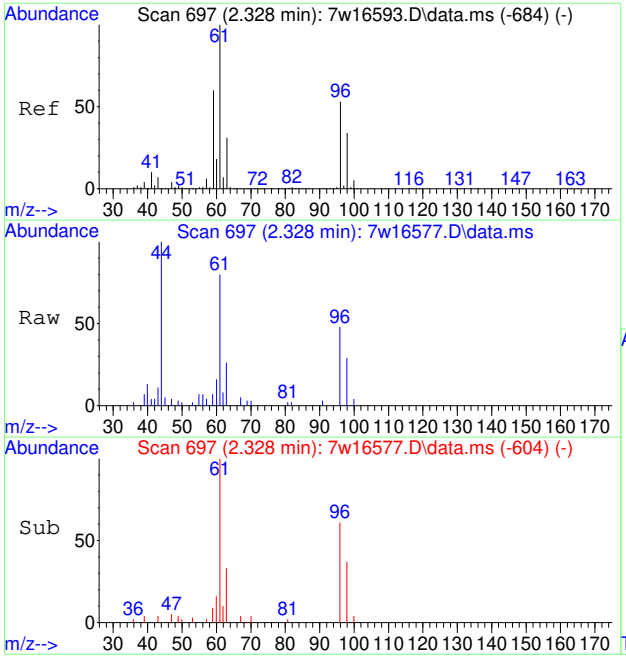


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:142 Resp: 3122

Ion	Ratio	Lower	Upper
142	100		
127	40.9	32.1	59.7

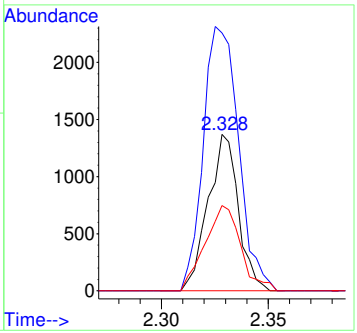


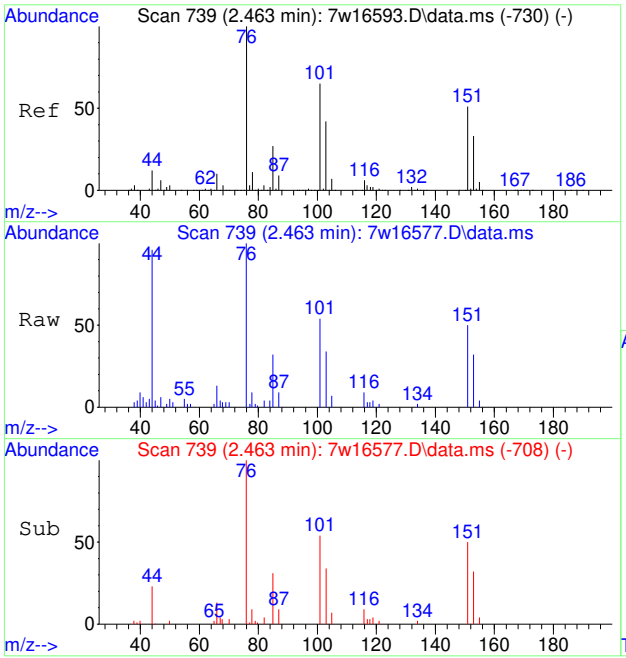


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1351

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	64.3	33.2	61.7#

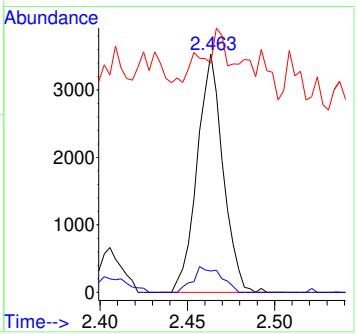


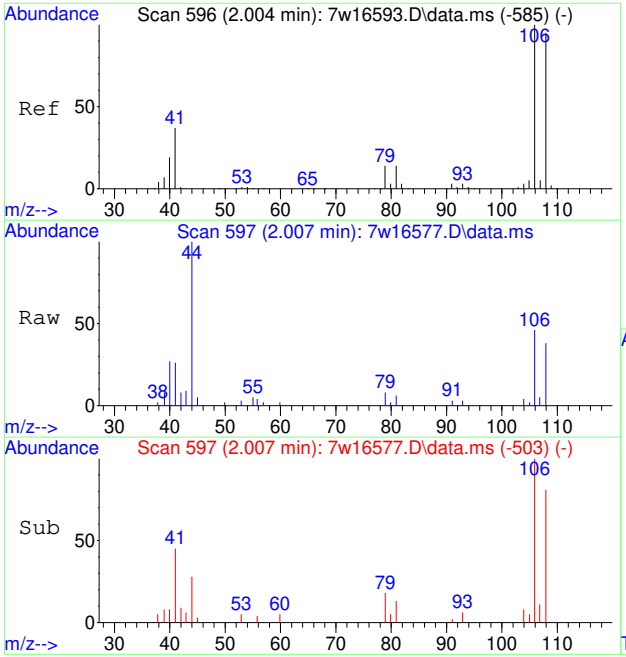


#27
CARBON DISULFIDE
Concen: 0.11 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 3643

Ion	Ratio	Lower	Upper
76	100		
78	11.6	8.3	15.3
44	36.6	13.0	24.1#

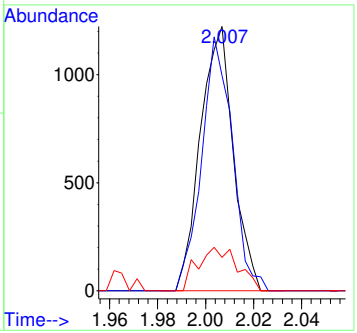


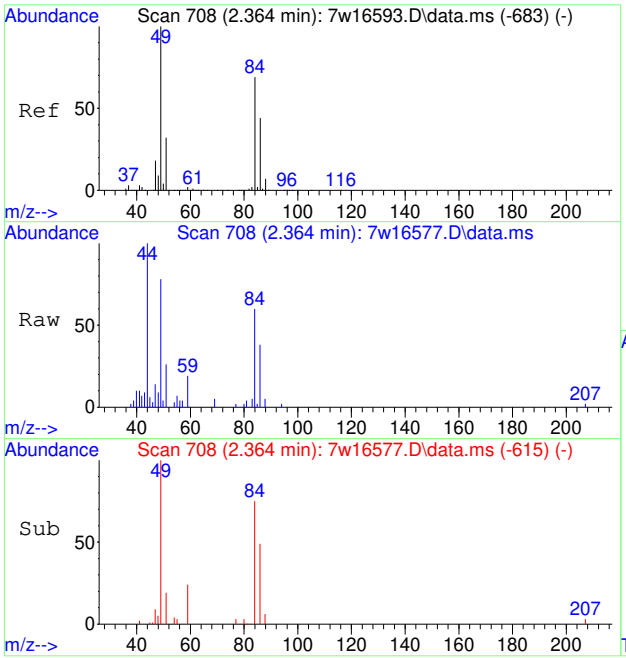


#29
BROMOETHENE
Concen: 0.10 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:106 Resp: 1160

Ion	Ratio	Lower	Upper
106	100		
108	90.0	68.3	126.8
81	20.0	14.7	27.3

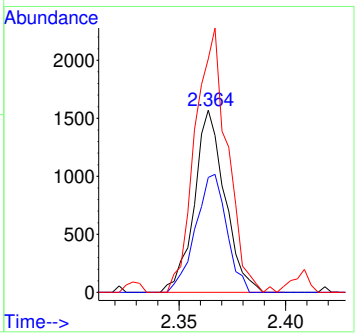


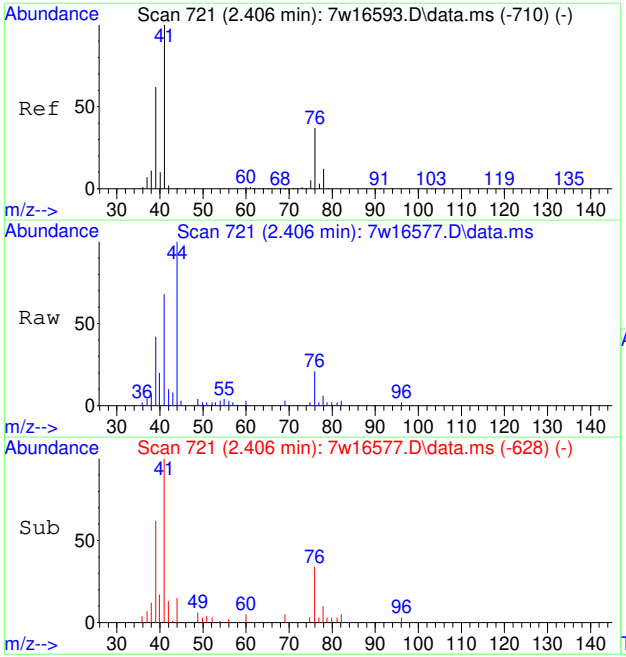


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1574

Ion	Ratio	Lower	Upper
84	100		
86	65.7	44.9	83.5
49	152.7	79.7	148.1#

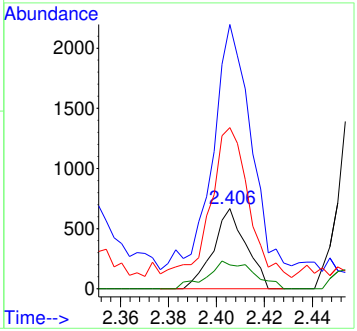


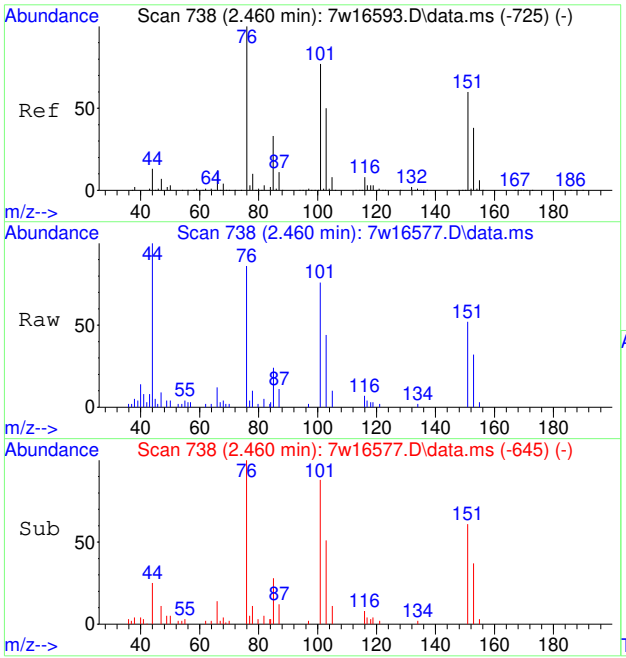


#32
3-CHLOROPROPENE
Concen: 0.10 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 631

Ion	Ratio	Lower	Upper
76	100		
41	375.9	160.9	298.9#
39	221.1	150.7	279.9
78	48.3	22.7	42.1#

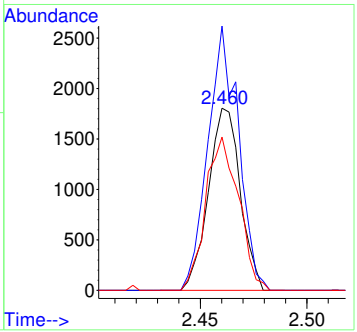


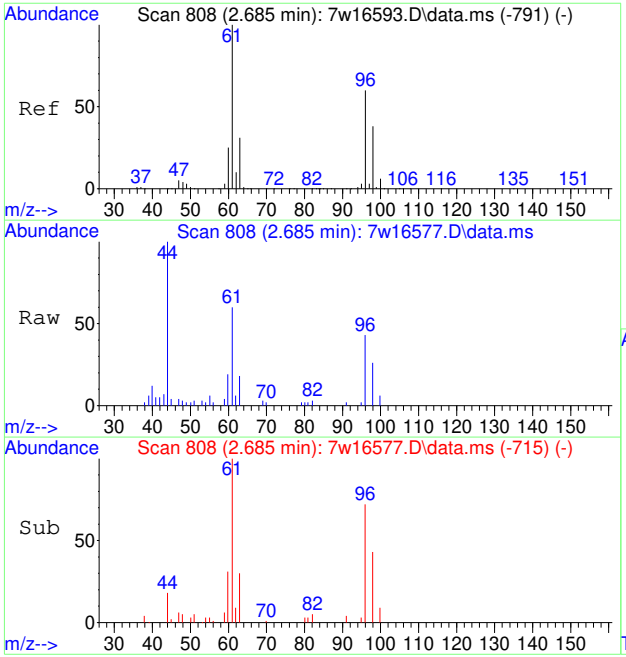


#33
FREON 113
Concen: 0.10 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:151 Resp: 1876

Ion	Ratio	Lower	Upper
151	100		
101	139.1	81.1	150.7
103	86.9	51.4	95.4

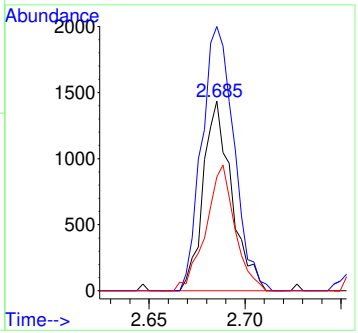


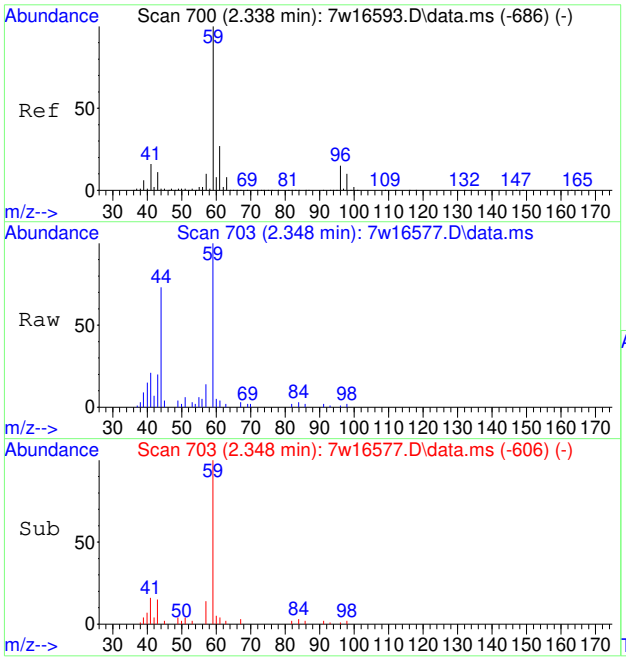


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.12 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1480

Ion	Ratio	Lower	Upper
96	100		
61	157.9	78.5	145.9#
98	67.7	46.5	86.3

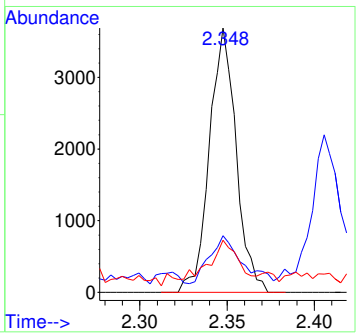


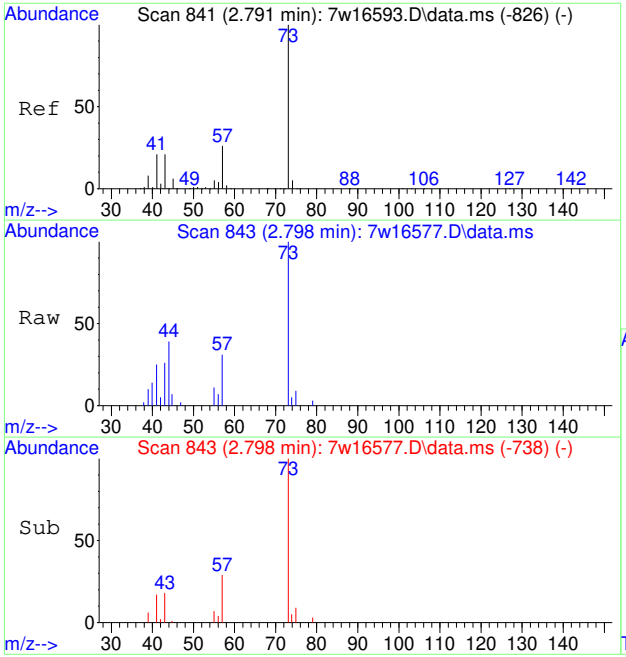


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.12 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 3930

Ion	Ratio	Lower	Upper
59	100		
41	20.7	15.3	28.5
43	26.0	12.3	22.9#

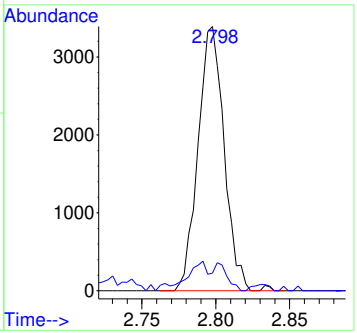


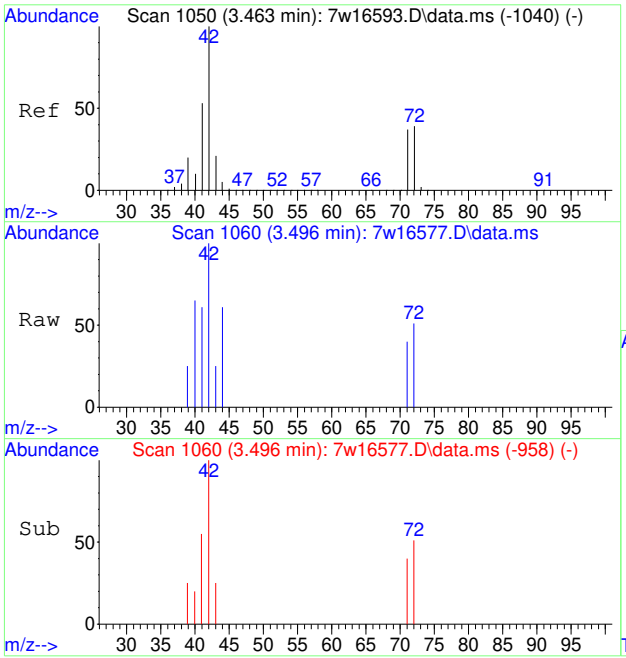


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.11 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 73 Resp: 4162

Ion	Ratio	Lower	Upper
73	100		
45	14.6	3.4	6.4#

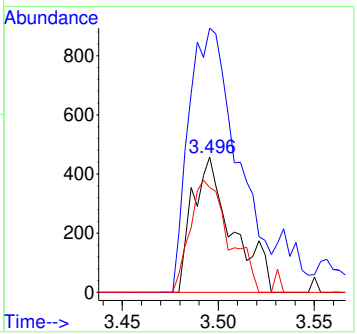


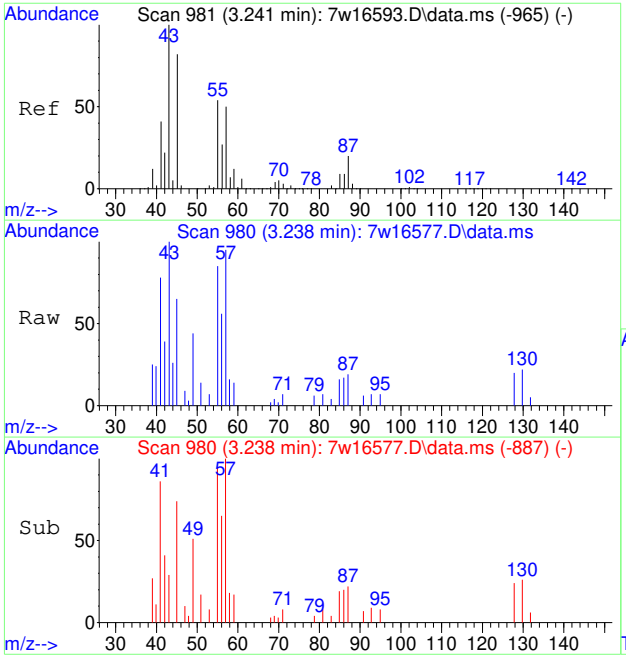


#37
TETRAHYDROFURAN
Concen: 0.11 PPBV
RT: 3.496 min Scan# 1060
Delta R.T. 0.029 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 660

Ion	Ratio	Lower	Upper
72	100		
42	239.2	153.0	284.2
71	81.4	62.7	116.5

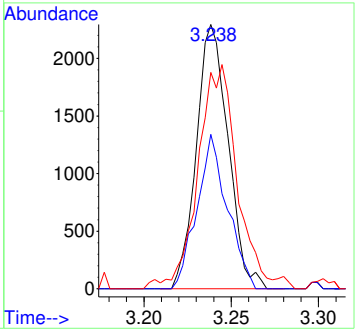


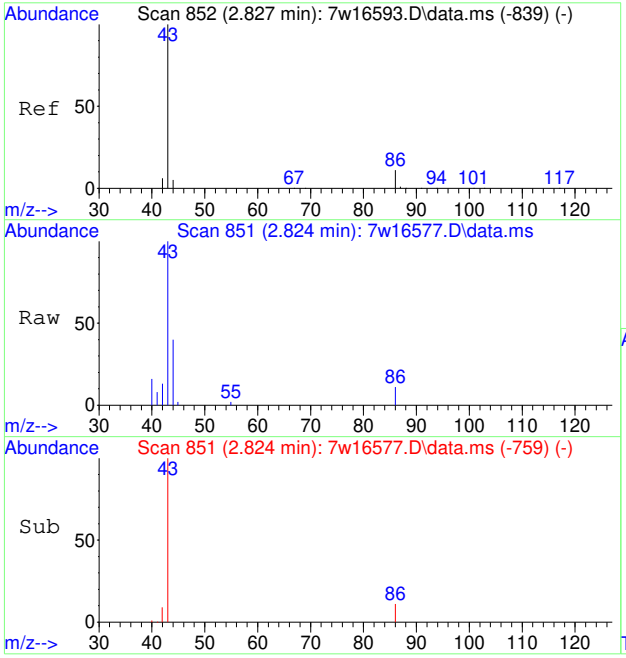


#38
HEXANE
Concen: 0.12 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 2906

Ion	Ratio	Lower	Upper
57	100		
56	55.8	37.3	69.3
41	105.2	86.7	161.1

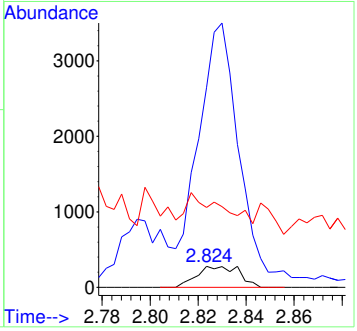


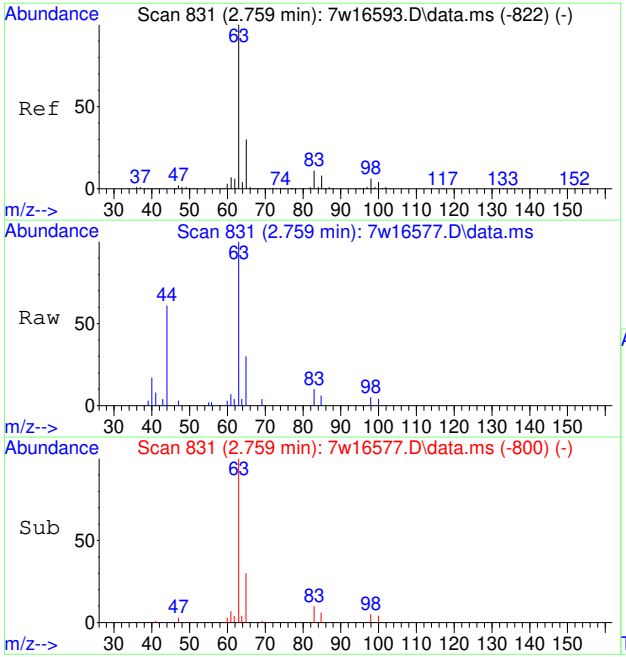


#39
VINYL ACETATE
Concen: 0.10 PPBV
RT: 2.824 min Scan# 851
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 86 Resp: 343

Ion	Ratio	Lower	Upper
86	100		
43	1525.9	667.9	1240.3#
44	241.7	32.7	60.7#

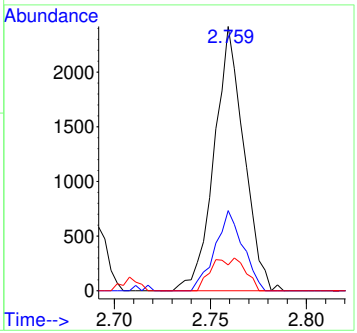


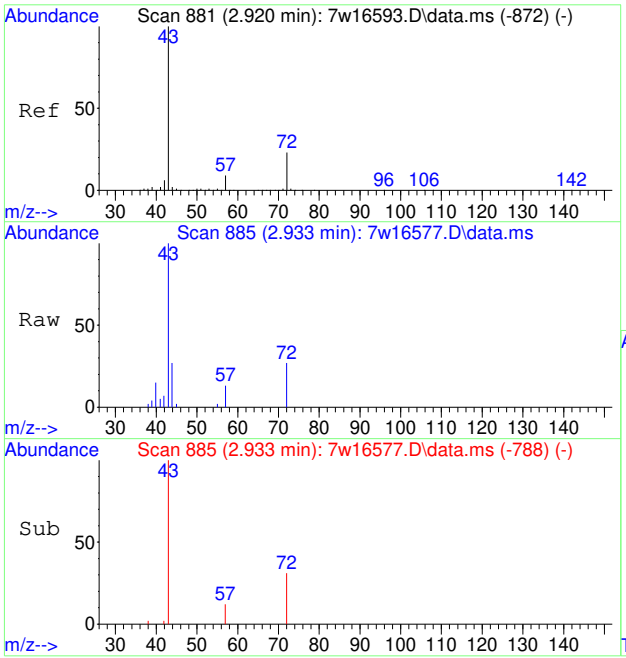


#40
1,1-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 2595

Ion	Ratio	Lower	Upper
63	100		
65	28.6	21.8	40.6
83	14.2	10.6	19.6

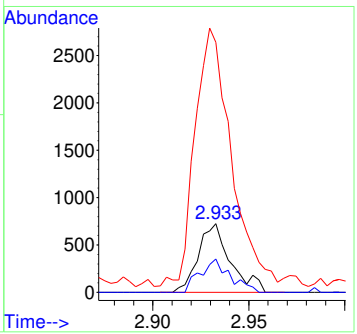


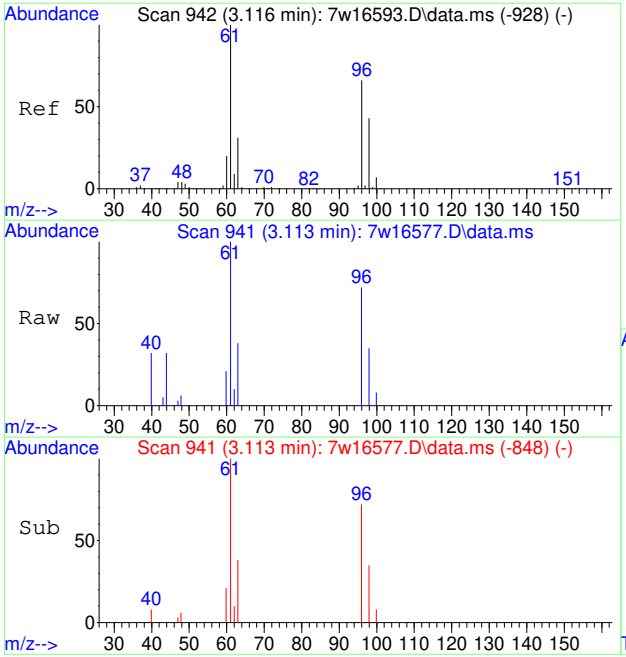


#41
METHYL ETHYL KETONE
Concen: 0.13 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 844

Ion	Ratio	Lower	Upper
72	100		
57	45.5	20.3	37.7#
43	437.0	282.8	525.2

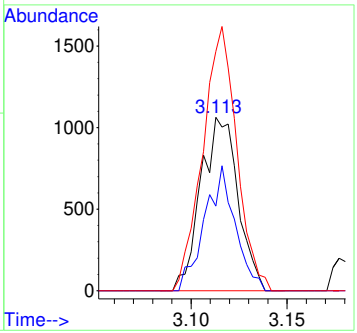


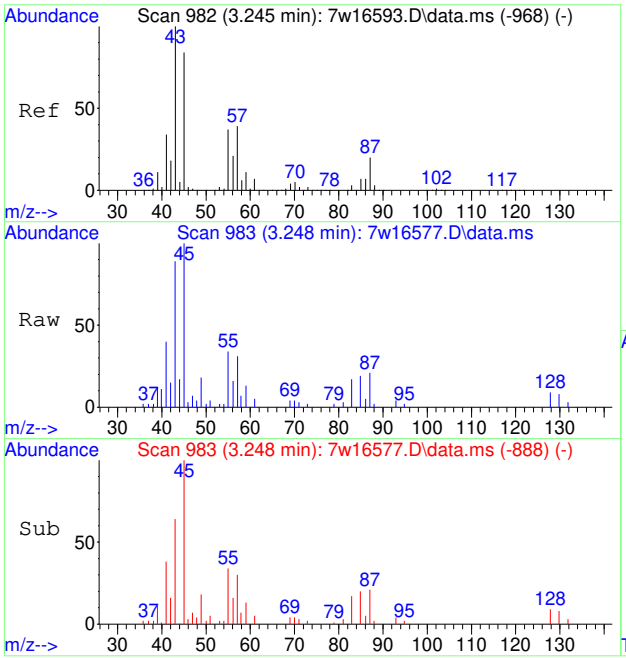


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.11 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1430

Ion	Ratio	Lower	Upper
96	100		
98	59.2	46.8	86.8
61	140.1	78.3	145.5

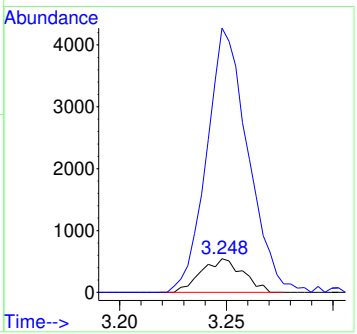


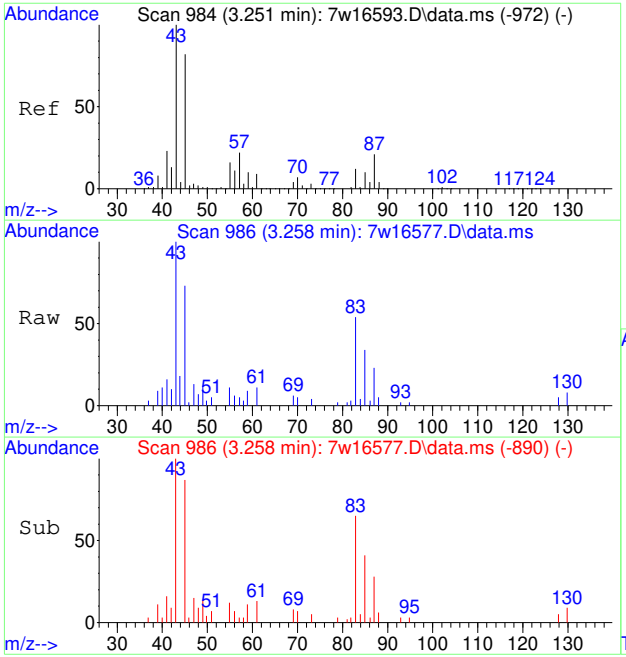


#43
DIISOPROPYL ETHER
Concen: 0.11 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 742

Ion	Ratio	Lower	Upper
59	100		
45	777.4	532.1	988.1

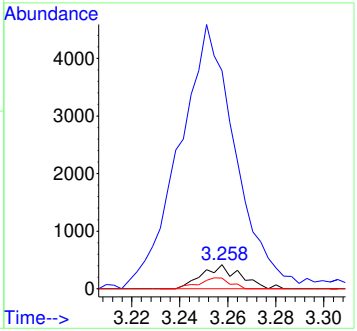


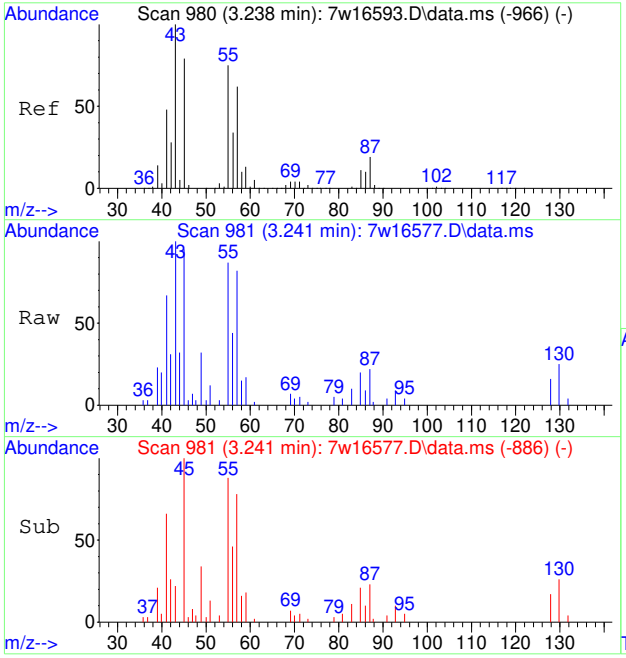


#44
ETHYL ACETATE
Concen: 0.09 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 61 Resp: 462

Ion	Ratio	Lower	Upper
61	100		
43	1690.7	1127.5	2093.9
88	36.8	36.2	67.2

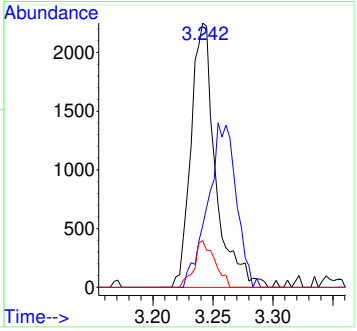


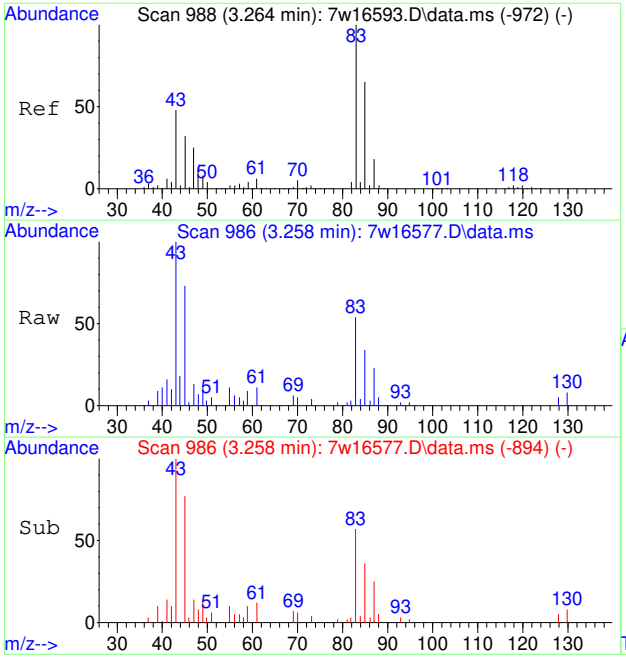


#45
METHYL ACRYLATE
Concen: 0.11 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3222

Ion	Ratio	Lower	Upper
55	100		
85	71.3	0.0	0.0#
58	14.6	9.2	17.0

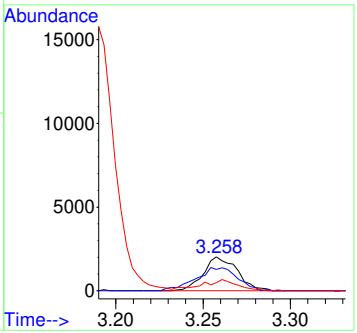


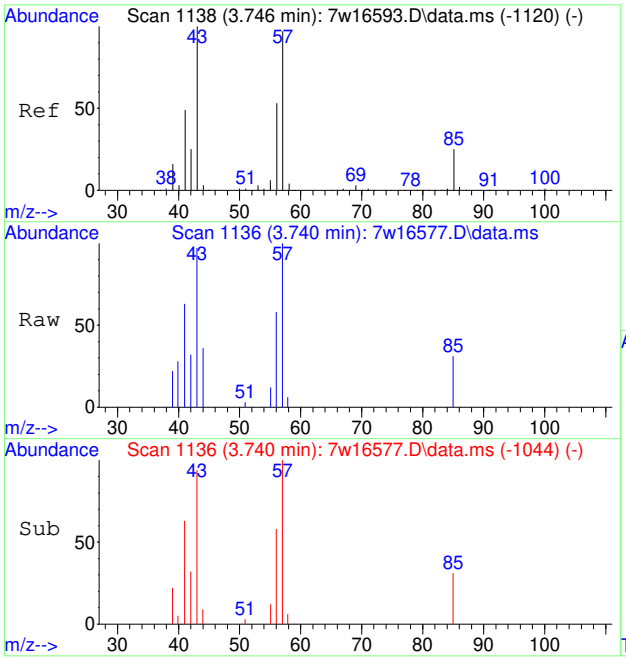


#46
CHLOROFORM
Concen: 0.10 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2745

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	35.4	17.9	33.3#

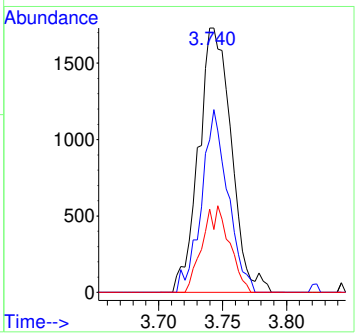


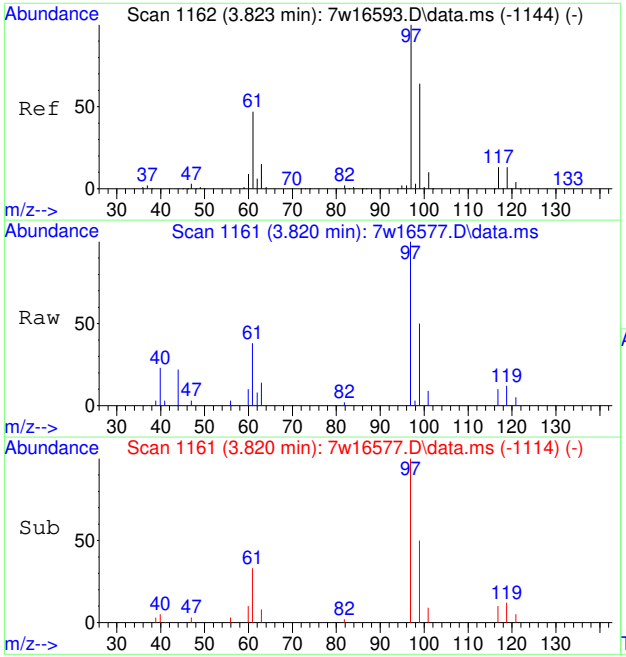


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 3064

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	27.2	24.1	44.7

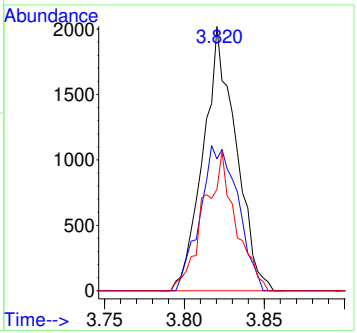


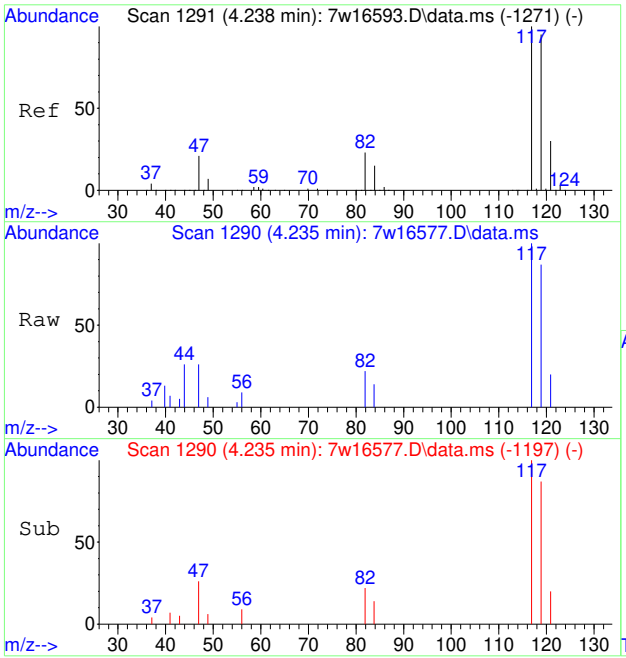


#48
1,1,1-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 97 Resp: 2869

Ion	Ratio	Lower	Upper
97	100		
99	63.8	44.9	83.5
61	51.8	28.6	53.0

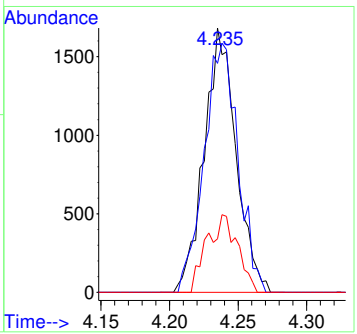


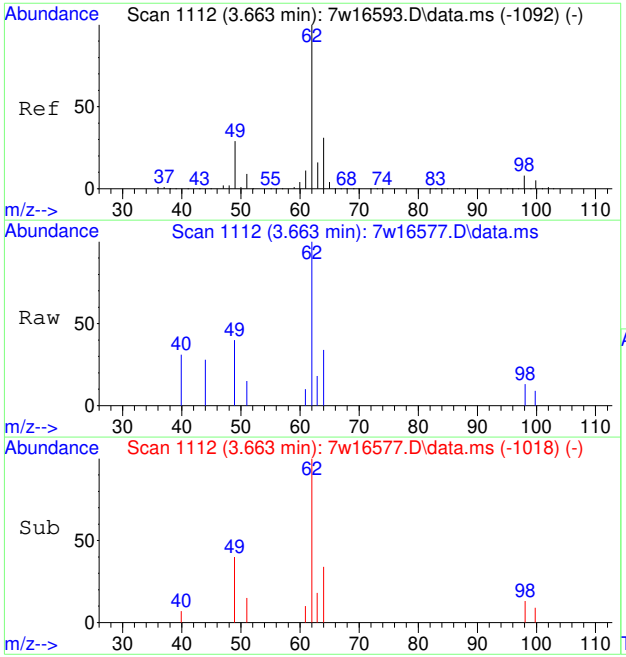


#49
CARBON TETRACHLORIDE
Concen: 0.09 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2721

Ion	Ratio	Lower	Upper
117	100		
119	100.0	68.8	127.8
121	28.2	22.2	41.2

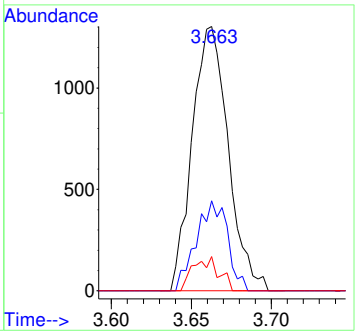


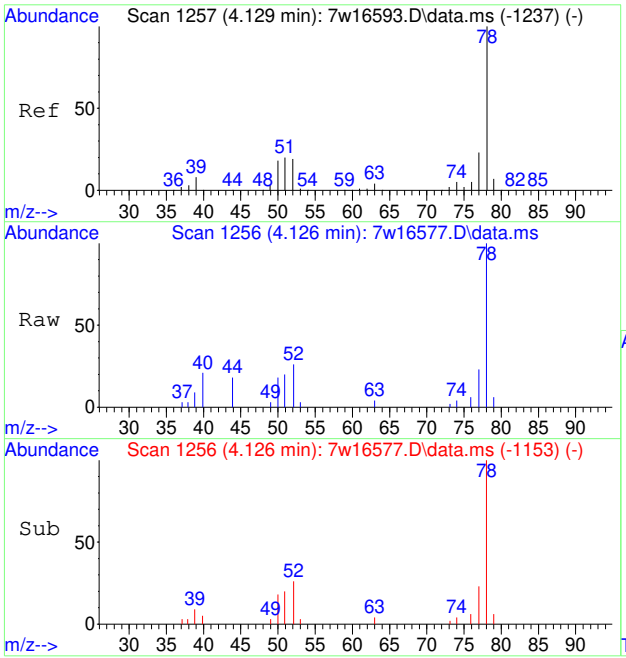


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 2043

Ion	Ratio	Lower	Upper
62	100		
64	29.5	22.5	41.7
98	9.2	6.8	12.6

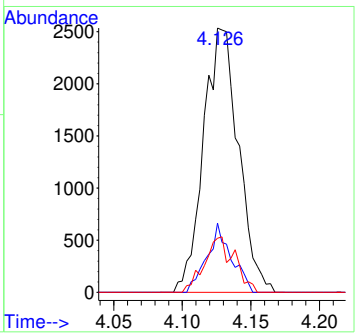


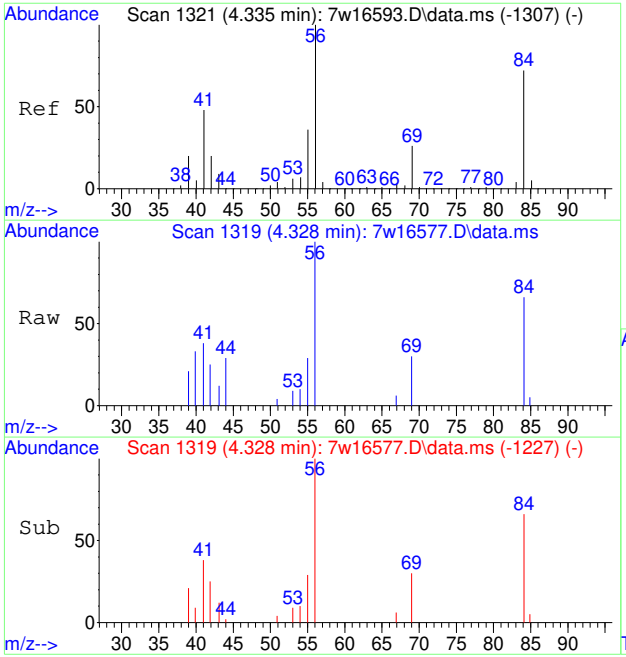


#51
BENZENE
Concen: 0.12 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 78 Resp: 4491

Ion	Ratio	Lower	Upper
78	100		
52	18.1	0.0	44.6
51	18.1	0.0	47.3

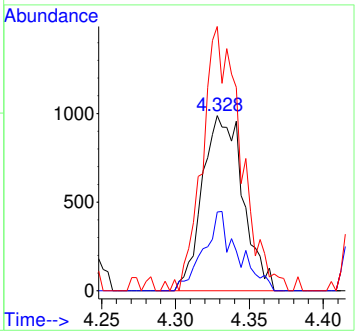


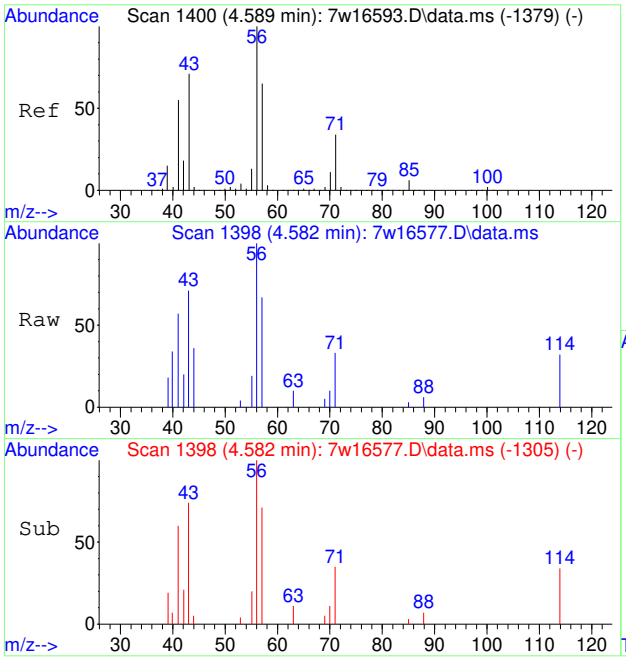


#53
CYCLOHEXANE
Concen: 0.11 PPBV
RT: 4.328 min Scan# 1319
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1883

Ion	Ratio	Lower	Upper
84	100		
69	37.8	22.3	41.5
56	143.3	70.2	130.4#

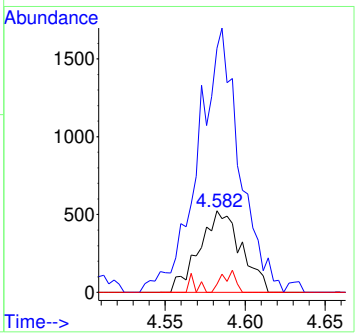


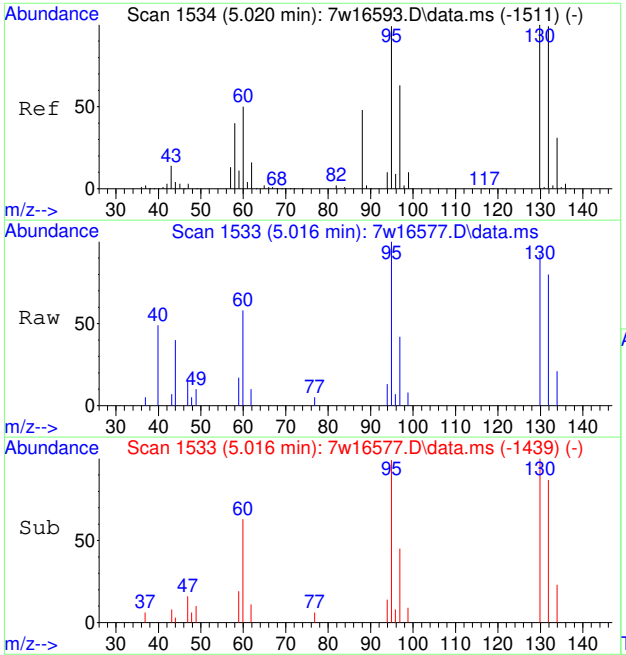


#54
2,3-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 71 Resp: 954

Ion	Ratio	Lower	Upper
71	100		
56	327.5	171.4	318.4#
85	8.9	12.6	23.4#

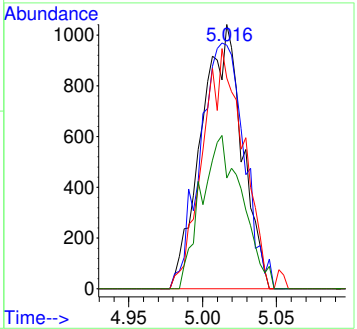


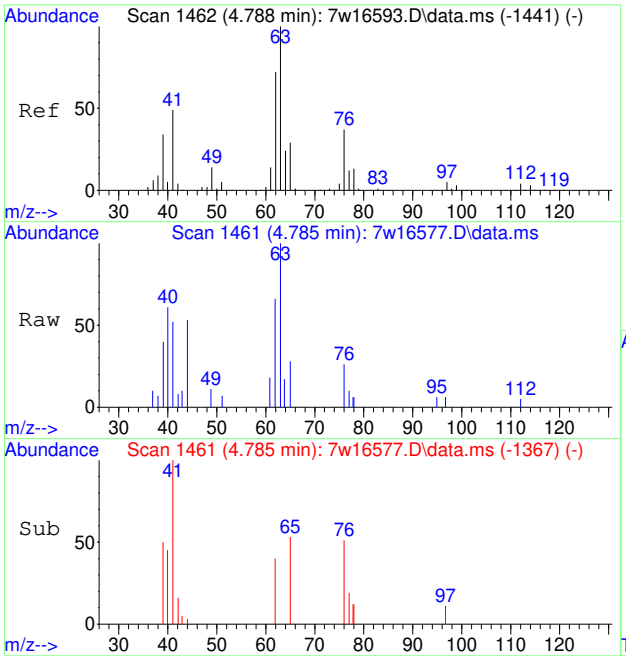


#55
TRICHLOROETHENE
Concen: 0.11 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 95 Resp: 1997

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	92.2	79.4	147.4
97	58.3	45.0	83.6

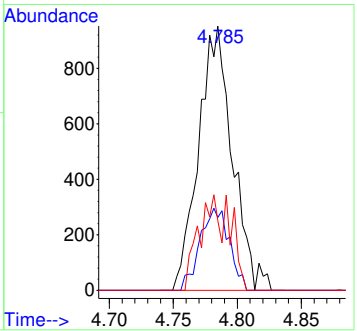


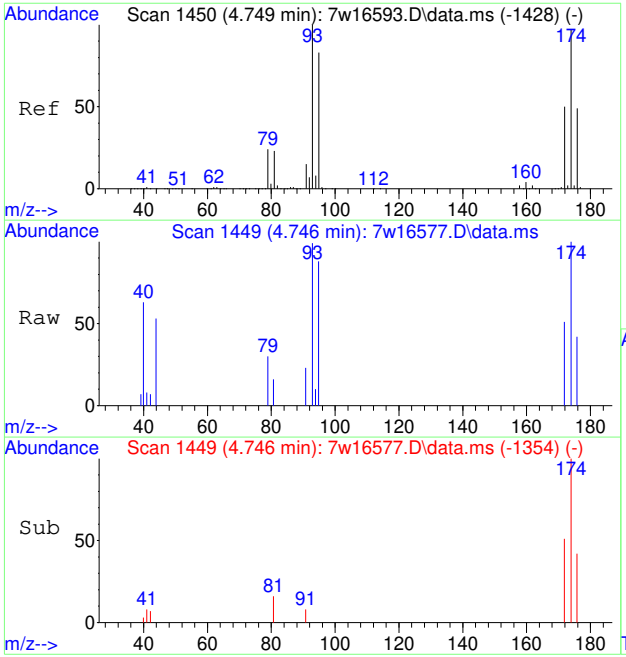


#56
1,2-DICHLOROPROPANE
Concen: 0.11 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 1753

Ion	Ratio	Lower	Upper
63	100		
65	26.8	22.6	42.0
76	32.9	31.8	59.0

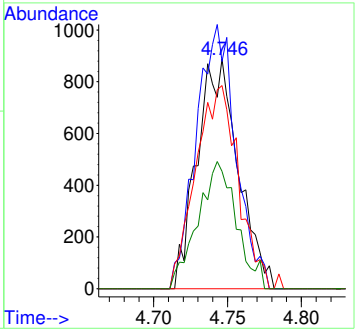


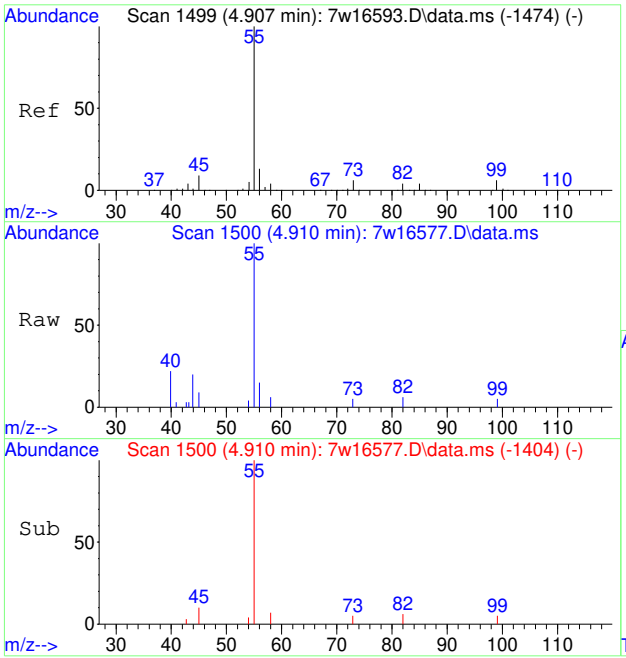


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:174 Resp: 1723

Ion	Ratio	Lower	Upper
174	100		
93	110.2	67.3	125.1
95	91.9	56.8	105.6
172	51.7	36.3	67.5

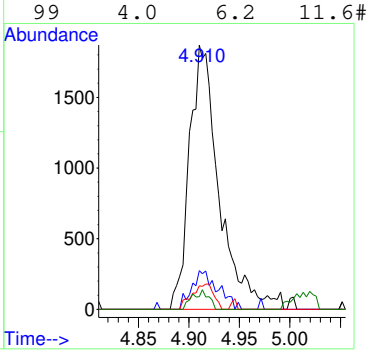


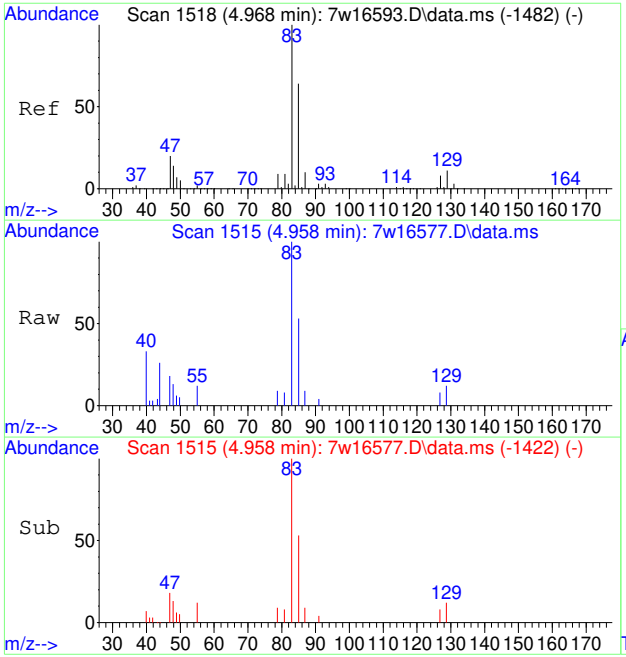


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV
RT: 4.910 min Scan# 1500
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3841

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	7.6	6.6	12.2
99	4.0	6.2	11.6#

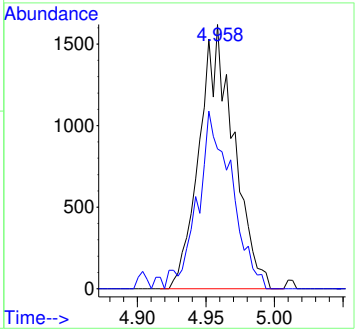


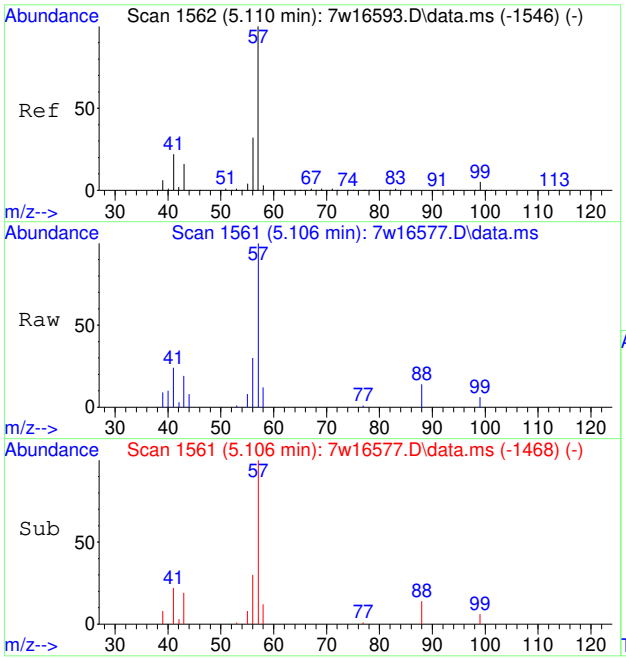


#59
BROMODICHLOROMETHANE
Concen: 0.09 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2818

Ion	Ratio	Lower	Upper
83	100		
85	67.7	44.9	83.5

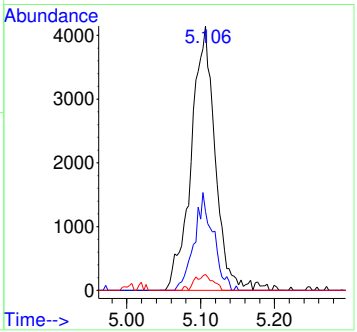


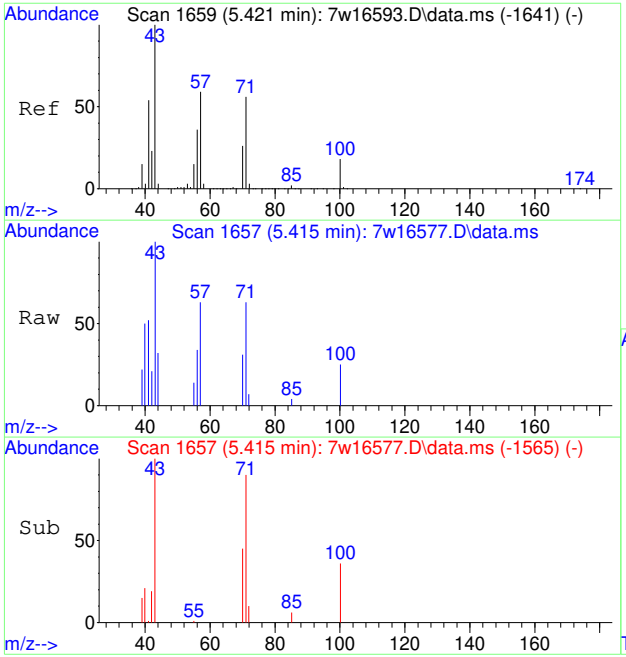


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.12 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 9397

Ion	Ratio	Lower	Upper
57	100		
56	29.2	24.4	45.2
99	4.5	5.2	9.6#

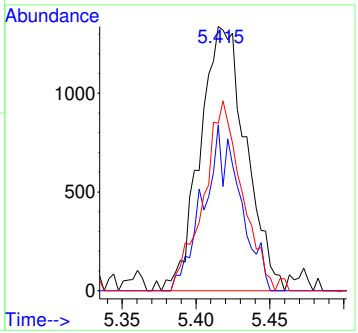


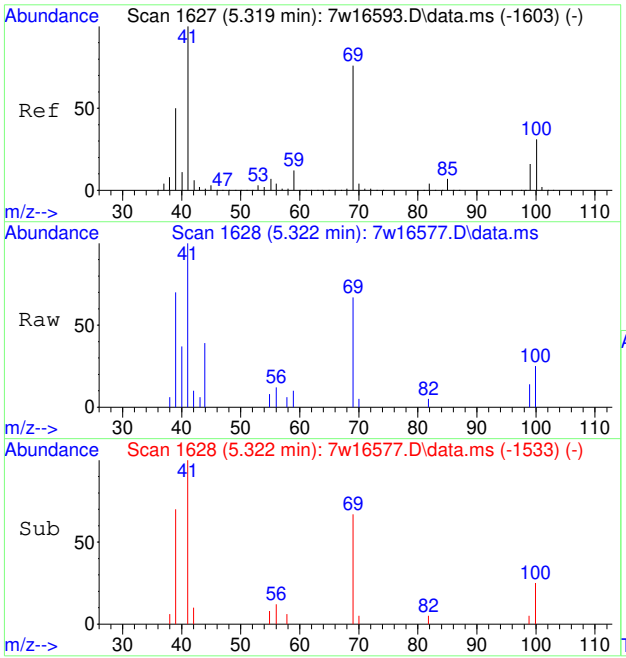


#62
HEPTANE
Concen: 0.11 PPBV
RT: 5.415 min Scan# 1657
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2892

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	60.8	37.2	69.0

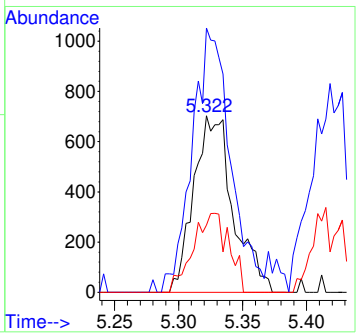


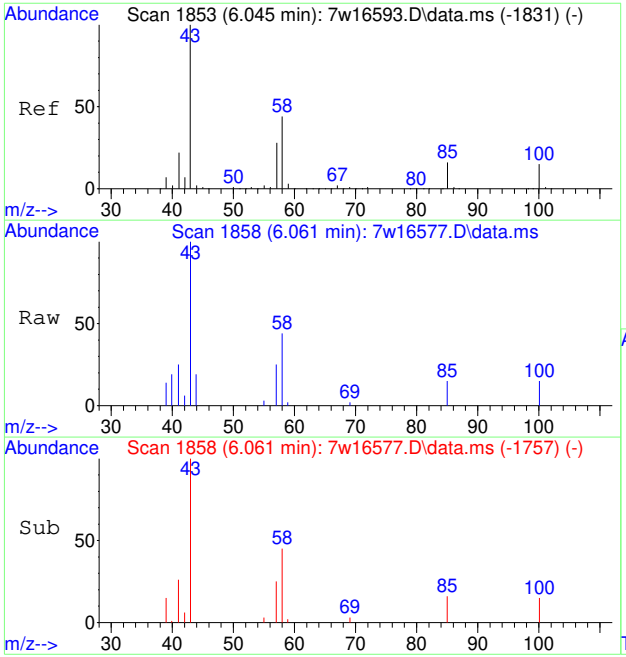


#63
METHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 1510

Ion	Ratio	Lower	Upper
69	100		
41	151.7	84.3	156.5
100	40.5	30.8	57.2

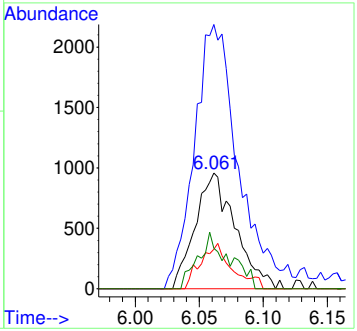


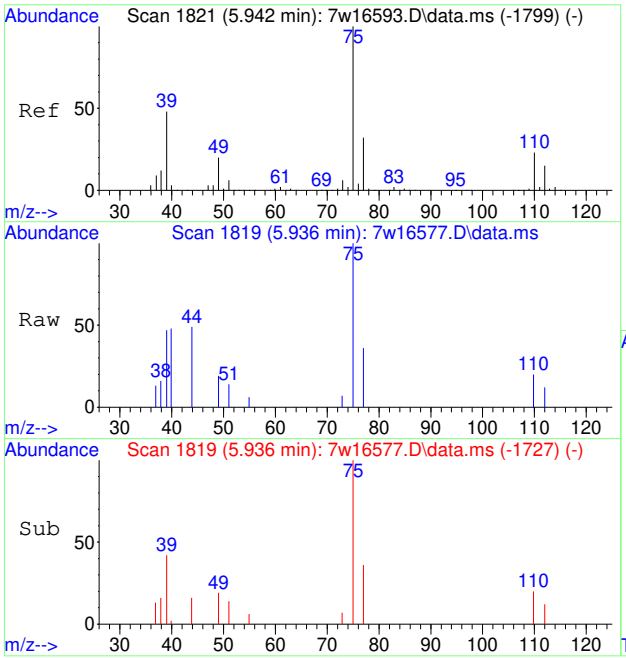


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 6.061 min Scan# 1858
Delta R.T. 0.026 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 2096

Ion	Ratio	Lower	Upper
58	100		
43	258.2	193.8	360.0
100	30.6	32.8	60.8#
85	37.5	33.3	61.9

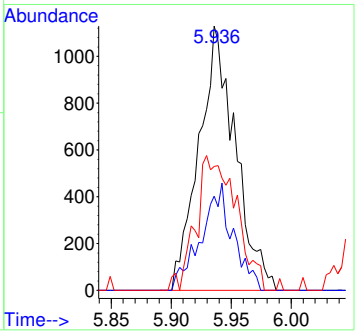


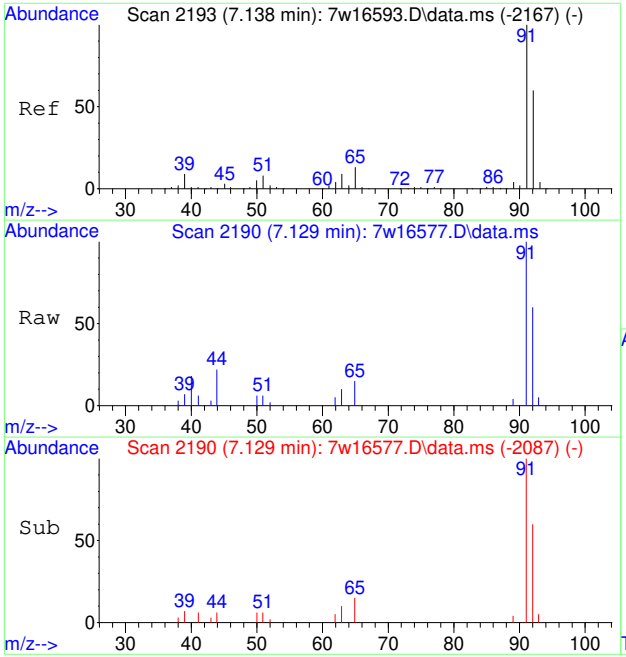


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.09 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2385

Ion	Ratio	Lower	Upper
75	100		
77	35.4	22.0	40.8
39	55.9	38.5	71.5

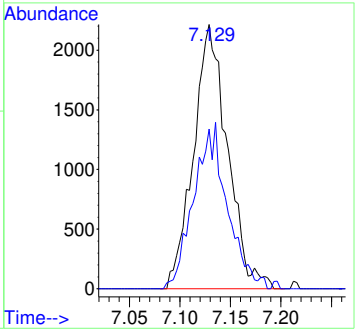


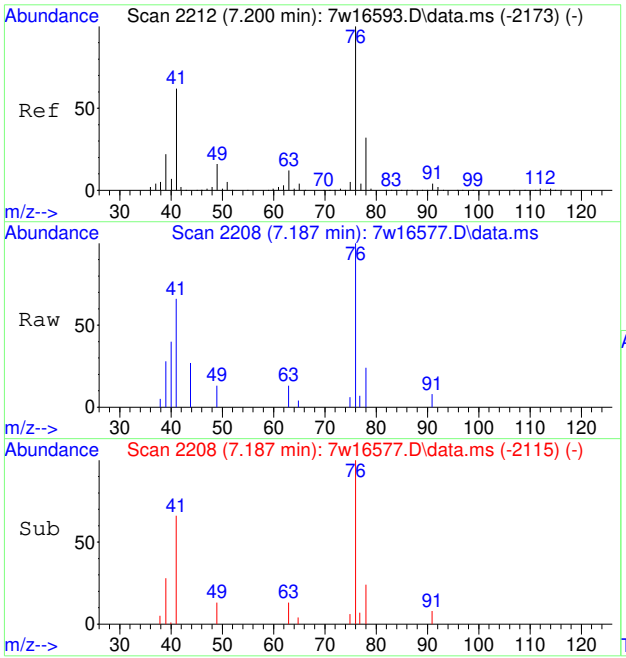


#66
TOLUENE
Concen: 0.11 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5187

Ion	Ratio	Lower	Upper
91	100		
92	62.0	28.1	88.1

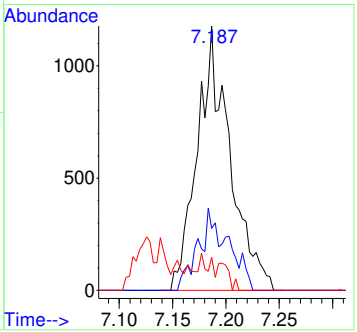


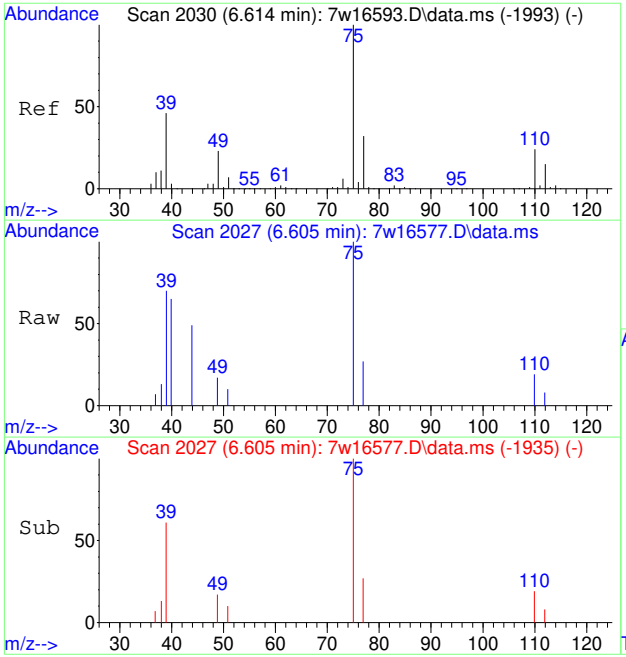


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 2497

Ion	Ratio	Lower	Upper
76	100		
78	28.4	22.1	41.1
63	7.7	8.0	14.8#

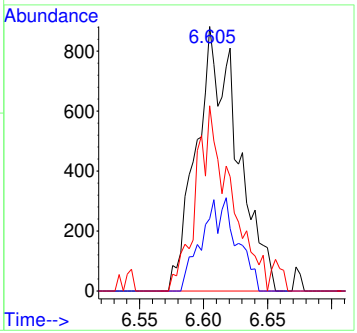


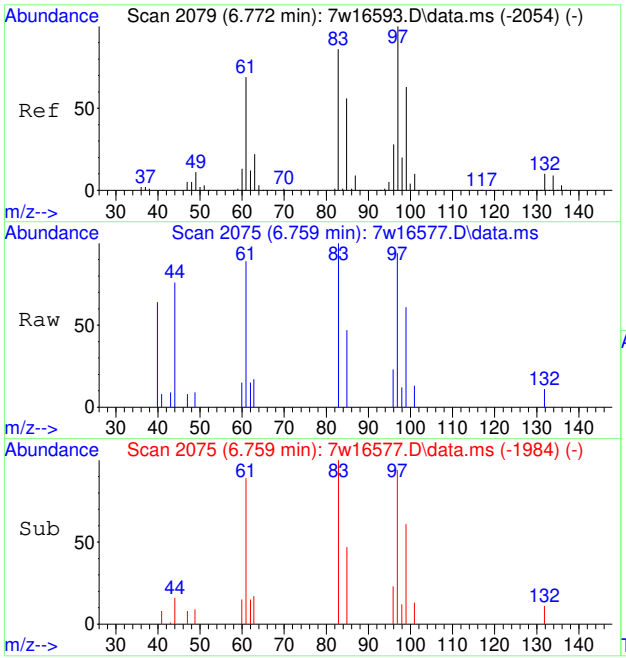


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.08 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 1972

Ion	Ratio	Lower	Upper
75	100		
77	30.0	22.5	41.7
39	59.3	37.2	69.0

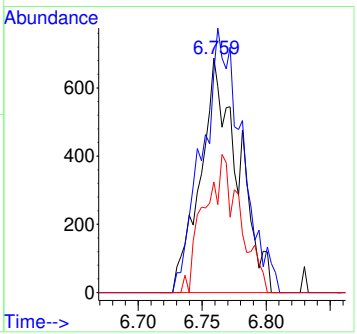


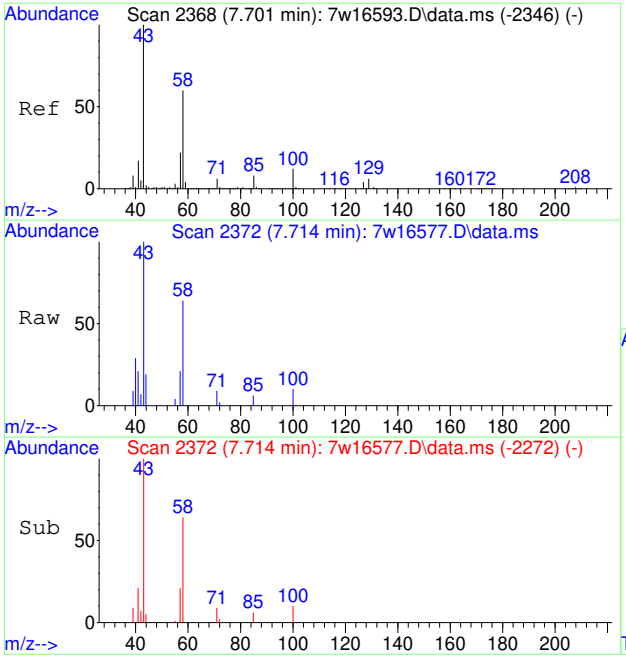


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 6.759 min Scan# 2075
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 1417

Ion	Ratio	Lower	Upper
83	100		
97	118.6	86.7	160.9
85	55.3	45.5	84.5

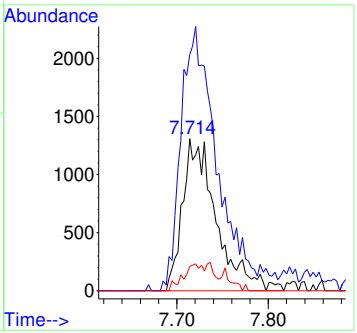


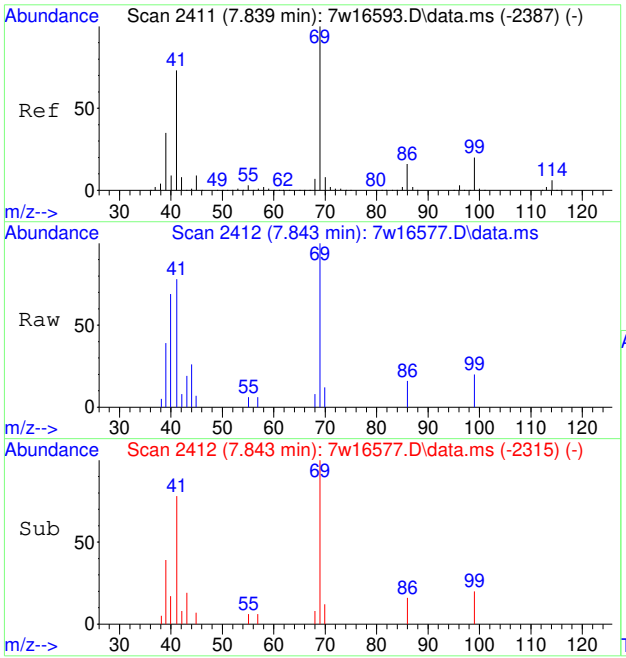


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.714 min Scan# 2372
Delta R.T. 0.023 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 3348

Ion	Ratio	Lower	Upper
58	100		
43	190.0	141.7	263.3
100	0.0	18.9	35.1#

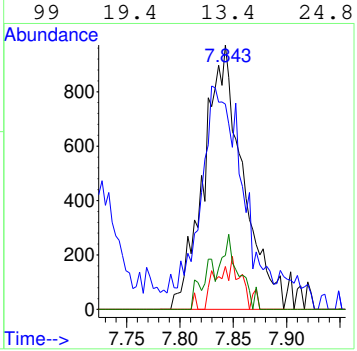


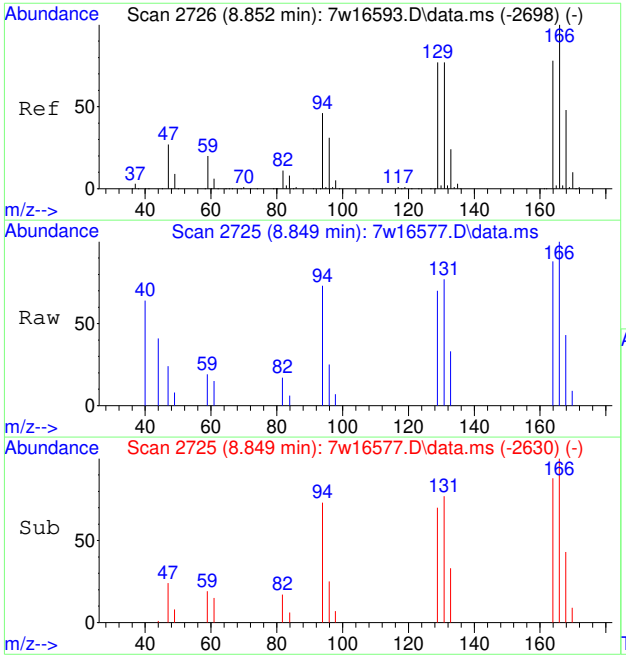


#71
ETHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 2476

Ion	Ratio	Lower	Upper
69	100		
41	101.2	49.3	91.6#
86	12.9	11.6	21.6
99	19.4	13.4	24.8

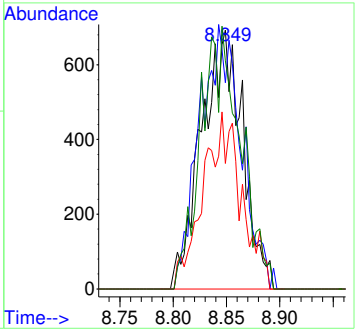


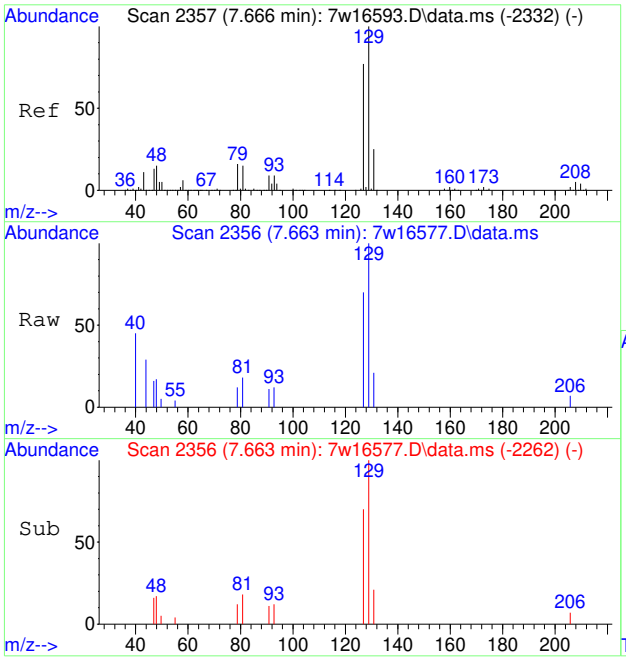


#72
TETRACHLOROETHENE
Concen: 0.11 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:164 Resp: 1845

Ion	Ratio	Lower	Upper
164	100		
129	103.4	69.7	129.5
168	63.9	43.4	80.6
131	98.6	67.1	124.5

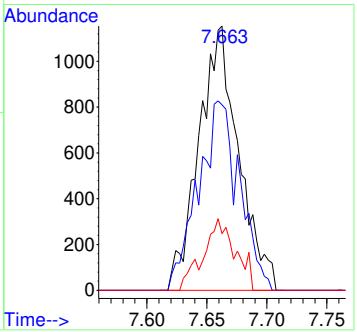


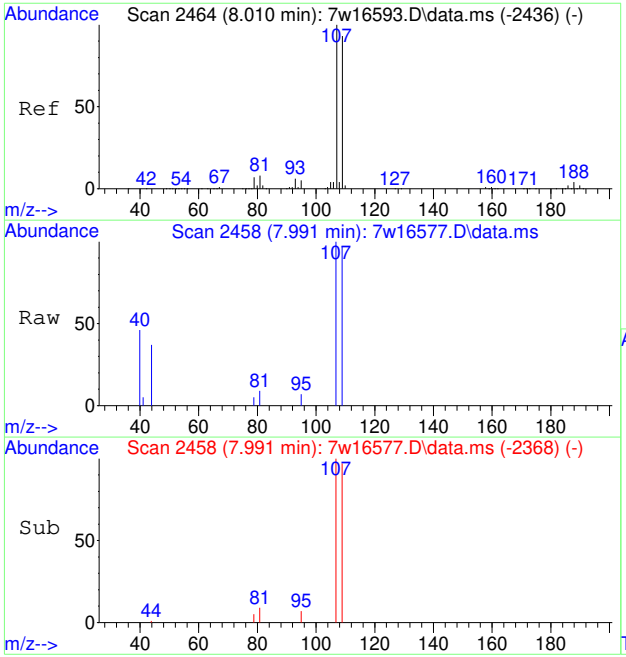


#73
DIBROMOCHLOROMETHANE
Concen: 0.09 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:129 Resp: 2664

Ion	Ratio	Lower	Upper
129	100		
127	73.7	53.0	98.4
131	21.8	16.9	31.3

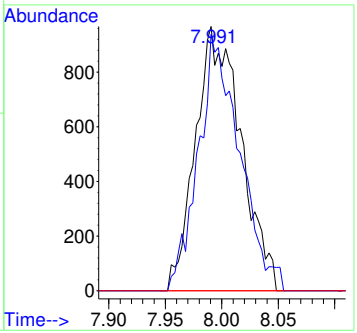


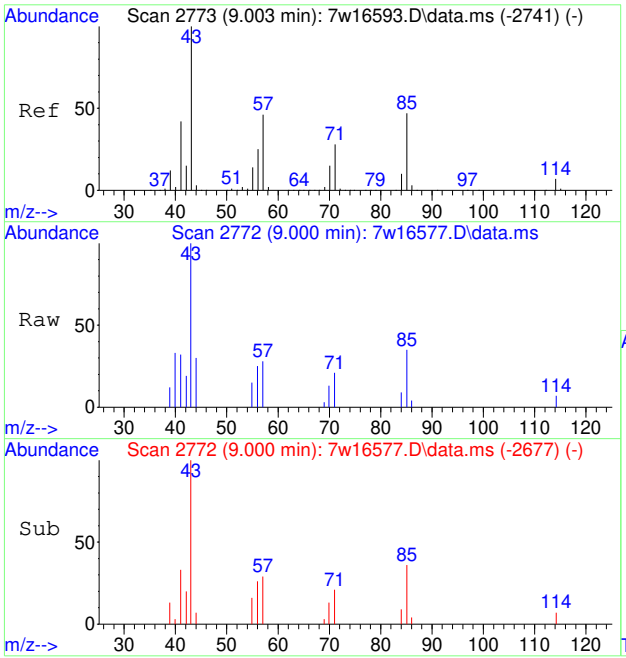


#74
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 7.991 min Scan# 2458
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:107 Resp: 2697

Ion	Ratio	Lower	Upper
107	100		
109	88.3	65.7	122.1
188	0.0	2.4	4.4#

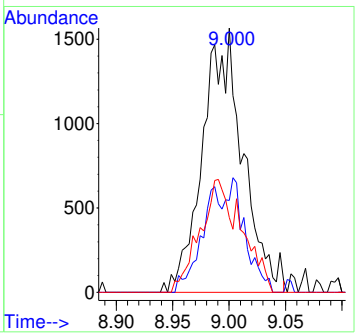


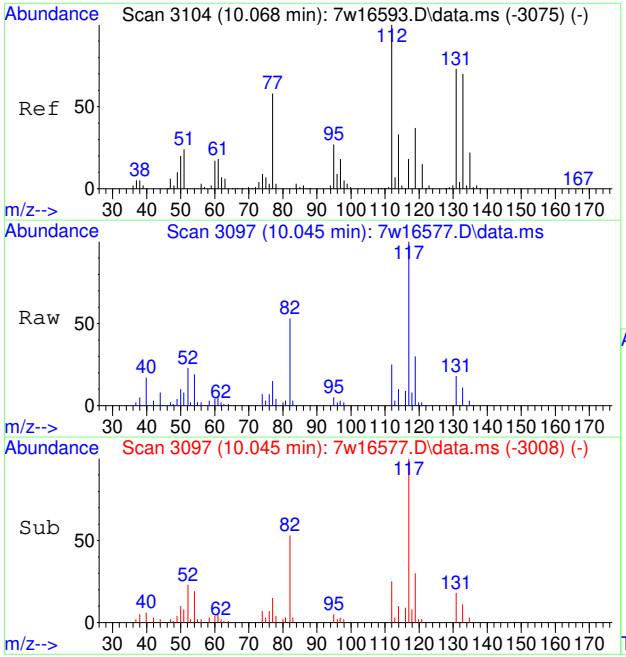


#75
OCTANE
Concen: 0.11 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
85	42.0	36.5	67.9
57	44.2	27.6	51.2

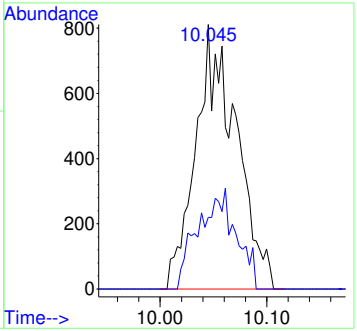


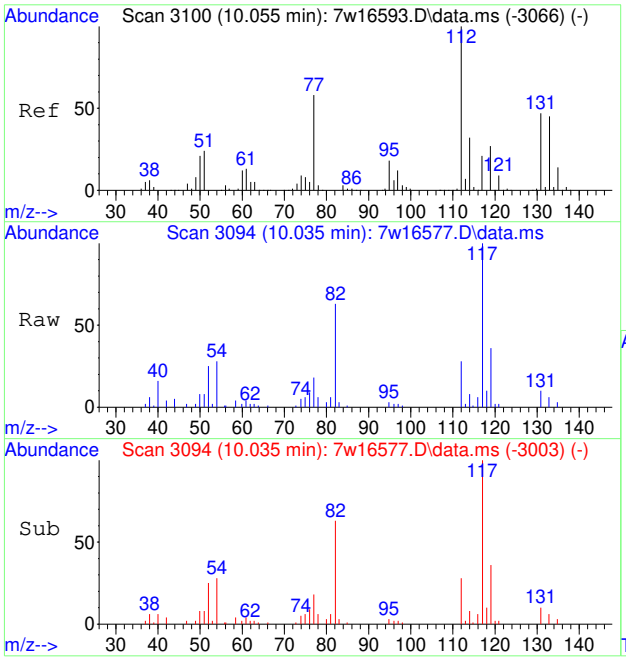


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:131 Resp: 2123

Ion	Ratio	Lower	Upper
131	100		
95	35.4	23.7	43.9

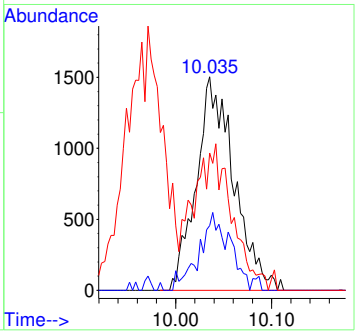


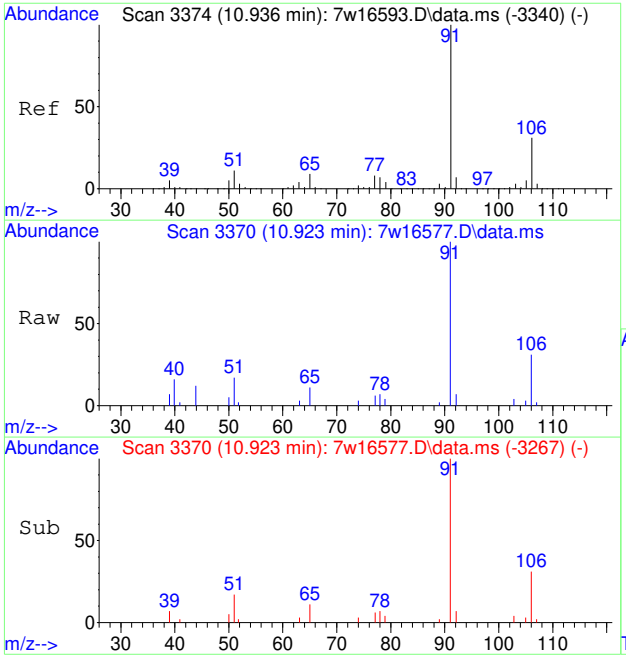


#78
CHLOROBENZENE
Concen: 0.11 PPBV
RT: 10.035 min Scan# 3094
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:112 Resp: 4090

Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.9	42.5
77	71.1	34.4	63.8#

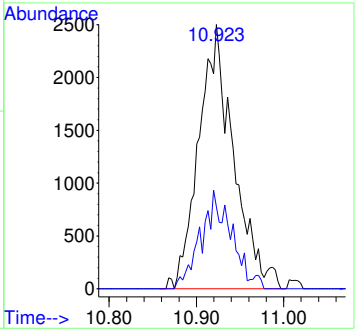


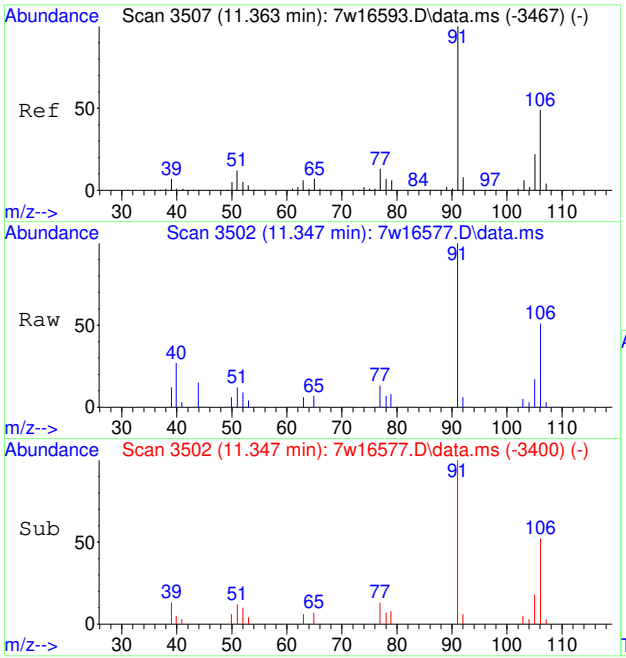


#79
ETHYLBENZENE
Concen: 0.11 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 6930

Ion	Ratio	Lower	Upper
91	100		
106	32.8	2.8	62.8

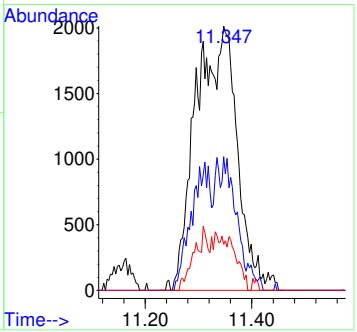


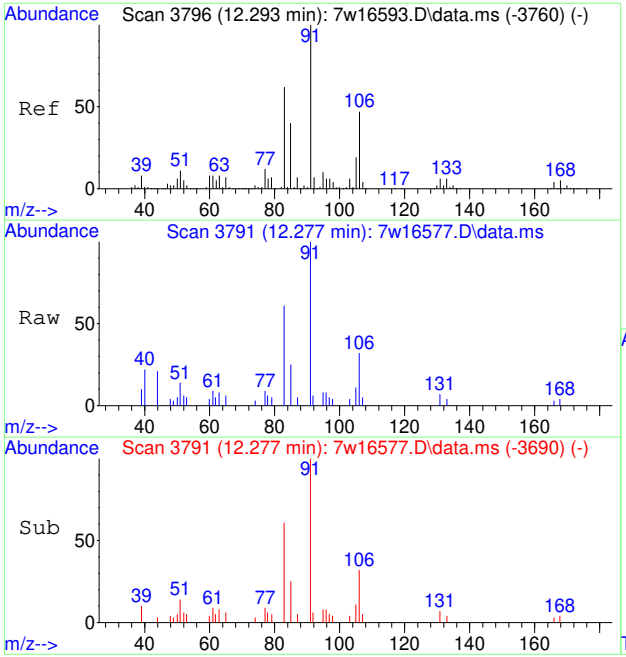


#80
M,P-XYLENE
Concen: 0.22 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 10889

Ion	Ratio	Lower	Upper
91	100		
106	26.3	0.0	58.7
105	0.0	0.0	43.2

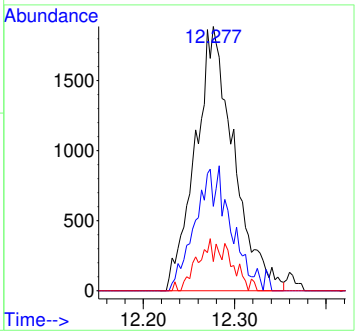


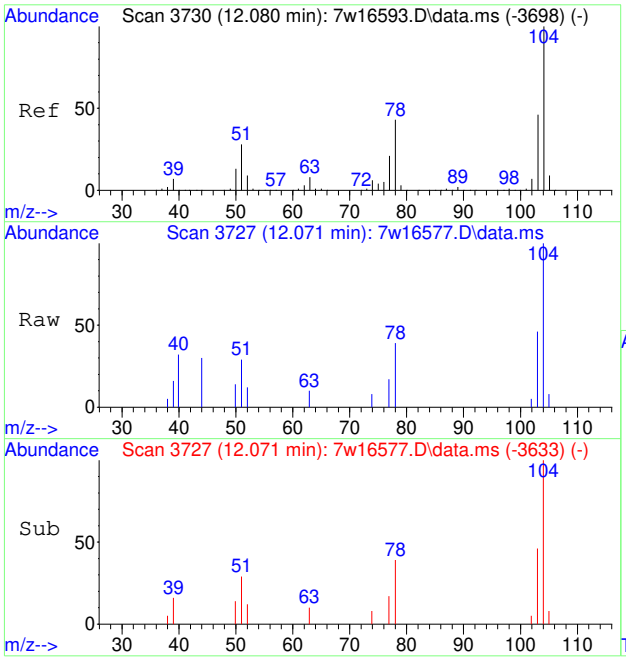


#81
O-XYLENE
Concen: 0.11 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5536

Ion	Ratio	Lower	Upper
91	100		
106	31.9	34.1	63.3#
105	11.1	14.6	27.2#

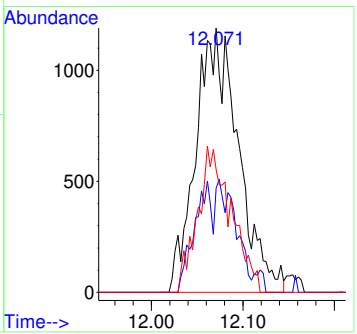


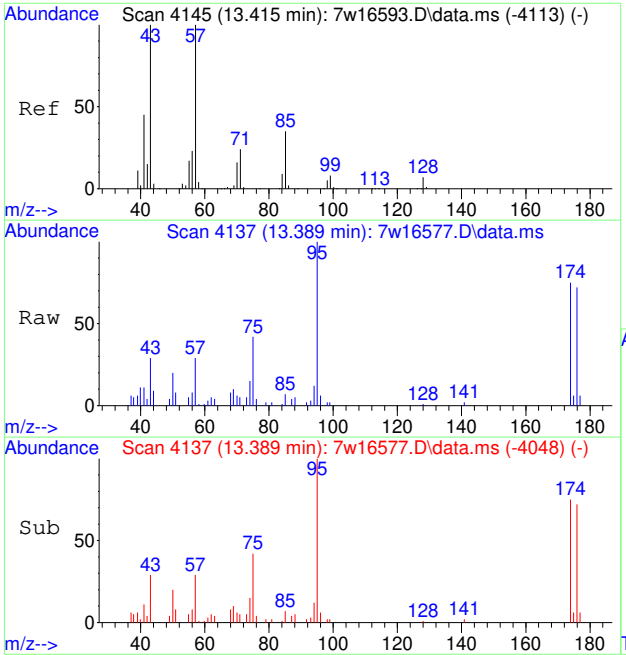


#82
STYRENE
Concen: 0.10 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:104 Resp: 3856

Ion	Ratio	Lower	Upper
104	100		
78	22.0	25.3	46.9#
103	0.0	33.2	61.7#

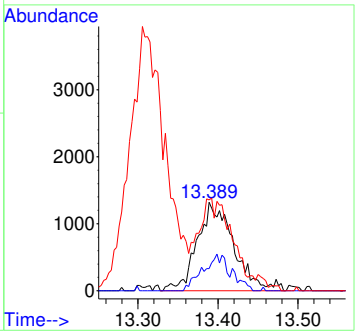


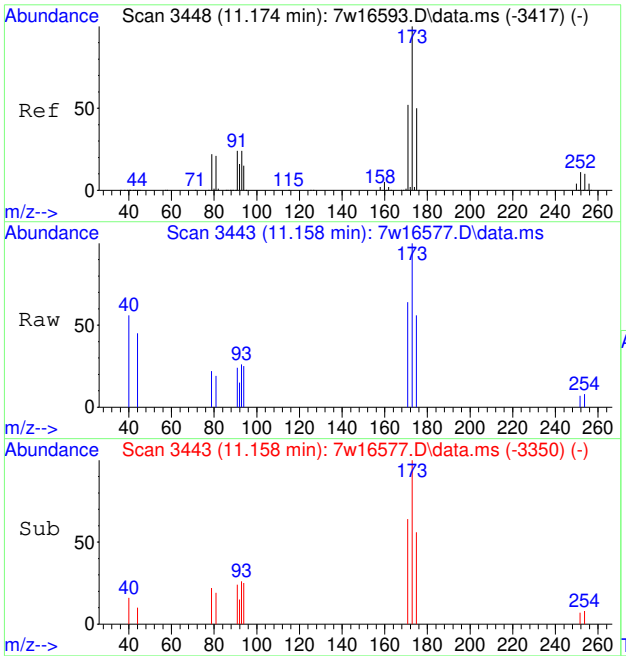


#83
NONANE
Concen: 0.11 PPBV
RT: 13.389 min Scan# 4137
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 4193

Ion	Ratio	Lower	Upper
43	100		
85	31.9	27.6	51.2
57	100.3	56.4	104.7

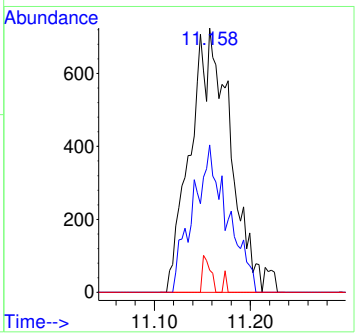


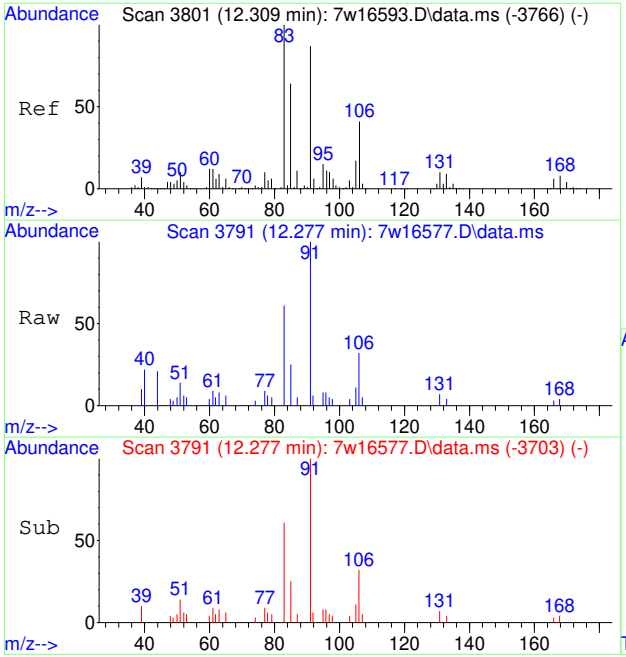


#84
BROMOFORM
Concen: 0.08 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:173 Resp: 2131

Ion	Ratio	Lower	Upper
173	100		
175	47.8	33.0	61.4
254	2.7	5.9	10.9#

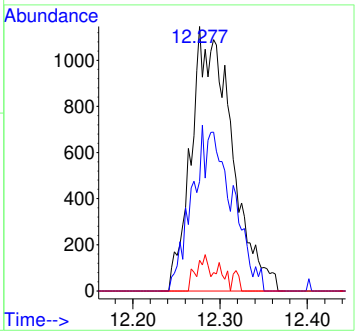


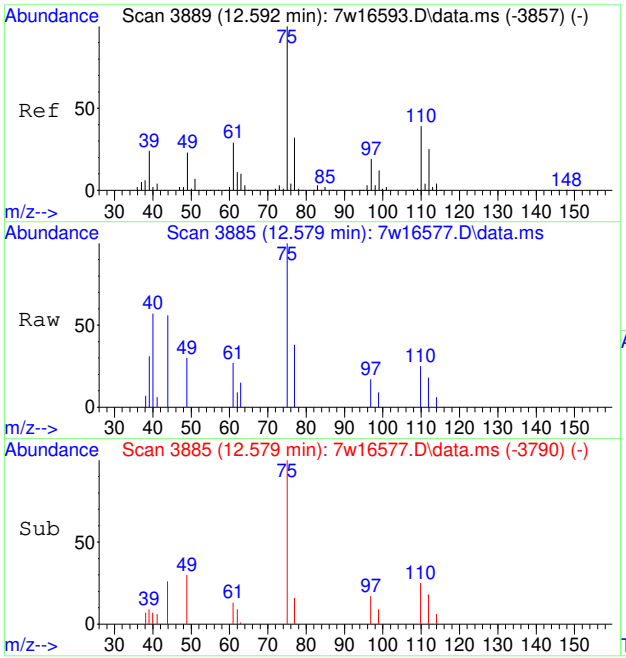


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.016 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 3686

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	6.1	8.0	14.8#

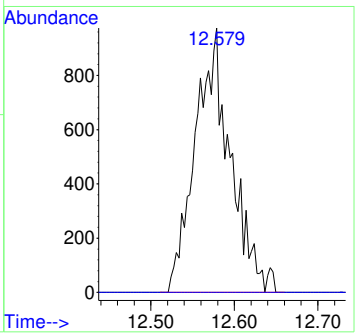


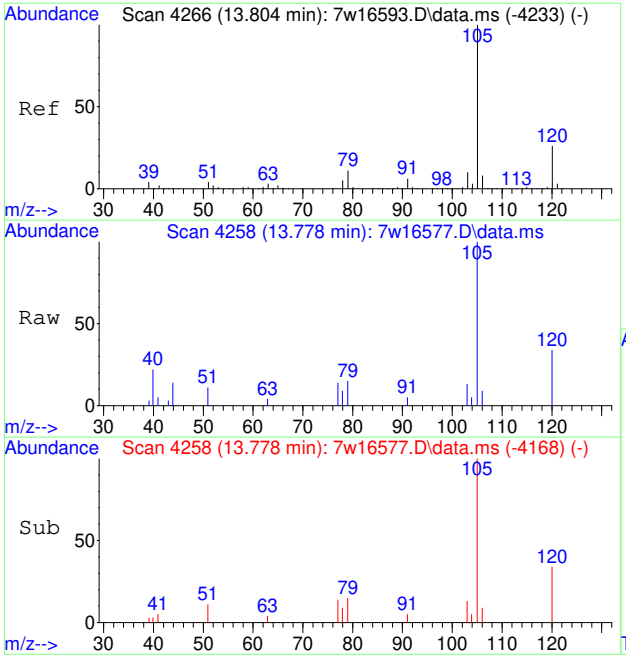


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.10 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2860

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

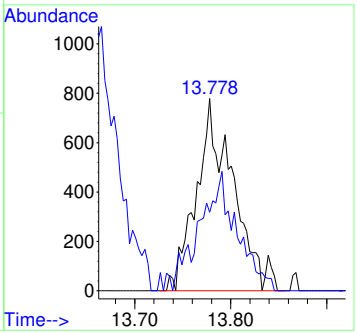


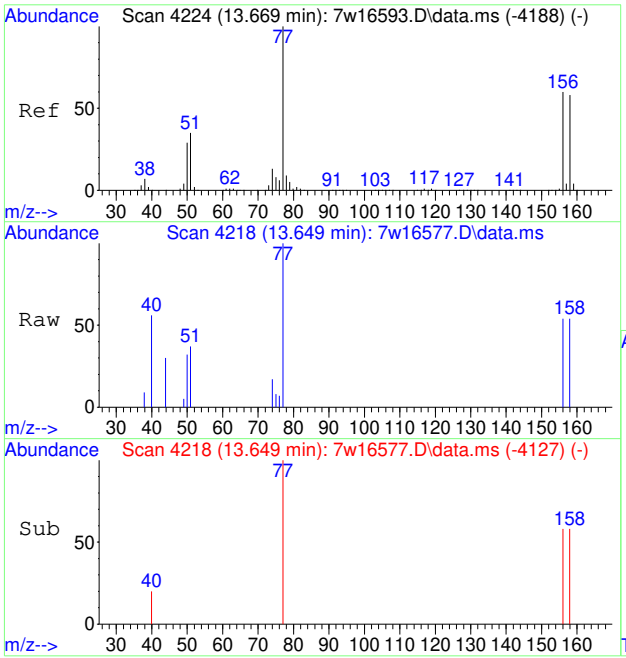


#88
ISOPROPYLBENZENE
Concen: 0.11 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 2075

Ion	Ratio	Lower	Upper
120	100		
77	64.6	36.0	67.0

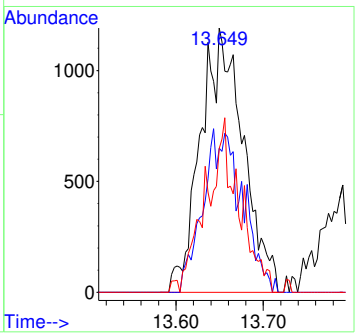


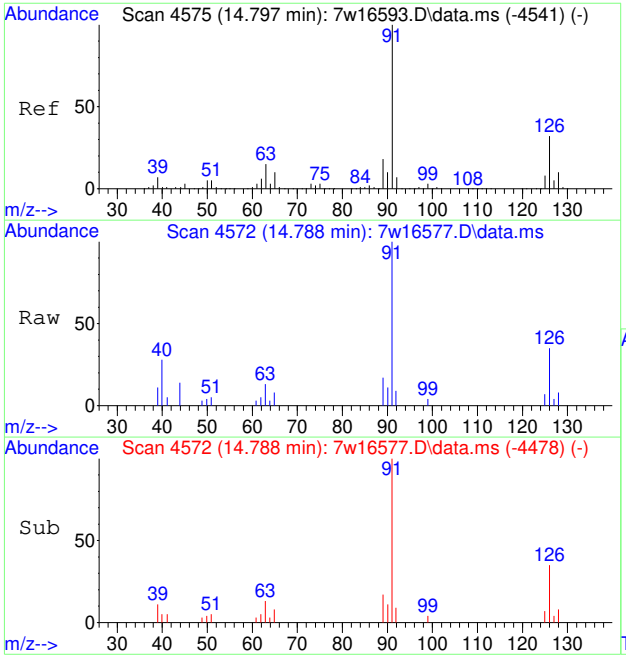


#89
BROMOBENZENE
Concen: 0.11 PPBV
RT: 13.649 min Scan# 4218
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 77 Resp: 4058

Ion	Ratio	Lower	Upper
77	100		
156	56.9	57.9	107.5#
158	51.5	55.7	103.5#

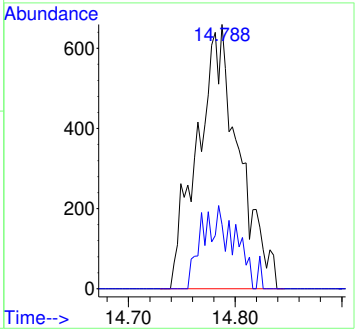


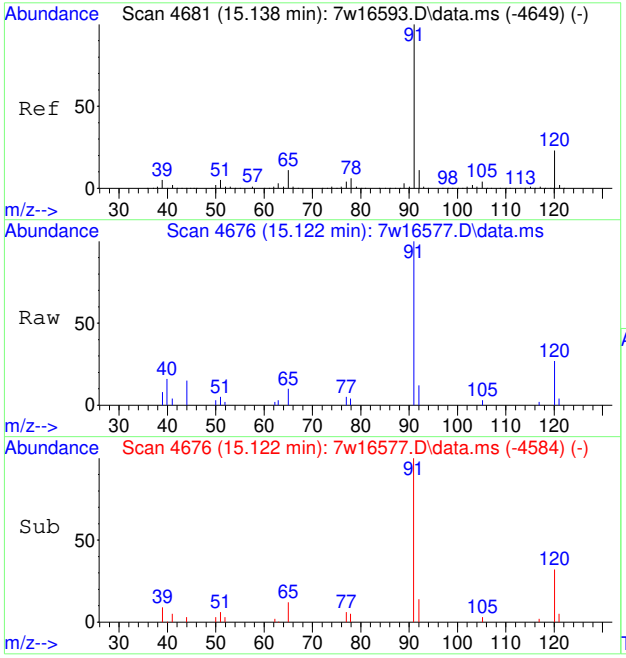


#90
2-CHLOROTOLUENE
Concen: 0.10 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:126 Resp: 1780

Ion	Ratio	Lower	Upper
126	100		
128	10.4	22.7	42.1#

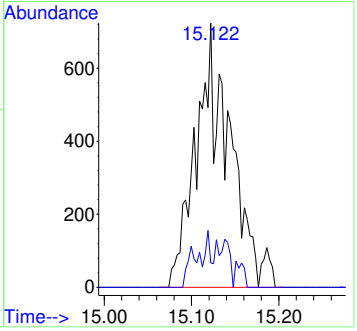


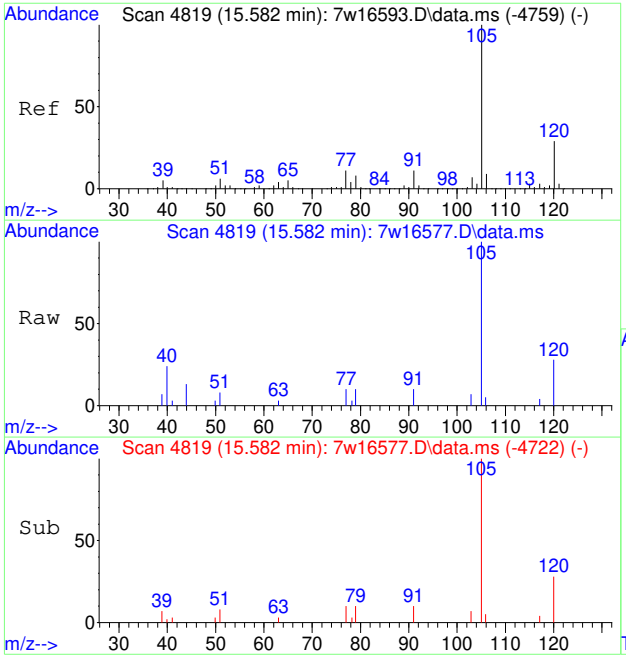


#91
N-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 1971

Ion	Ratio	Lower	Upper
120	100		
105	17.7	10.6	19.6

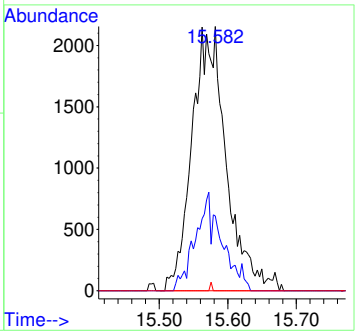


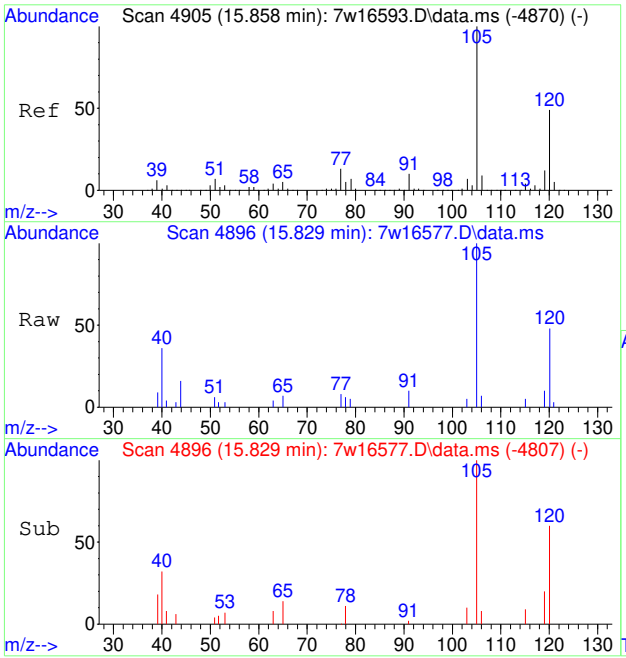


#92
4-ETHYLTOLUENE
Concen: 0.10 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 7463

Ion	Ratio	Lower	Upper
105	100		
120	28.8	21.8	40.4
119	0.0	1.7	3.1#

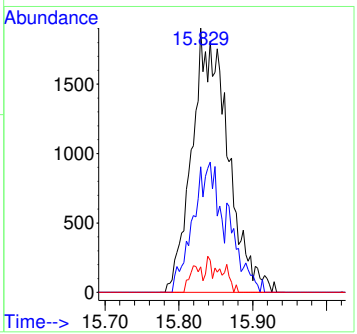


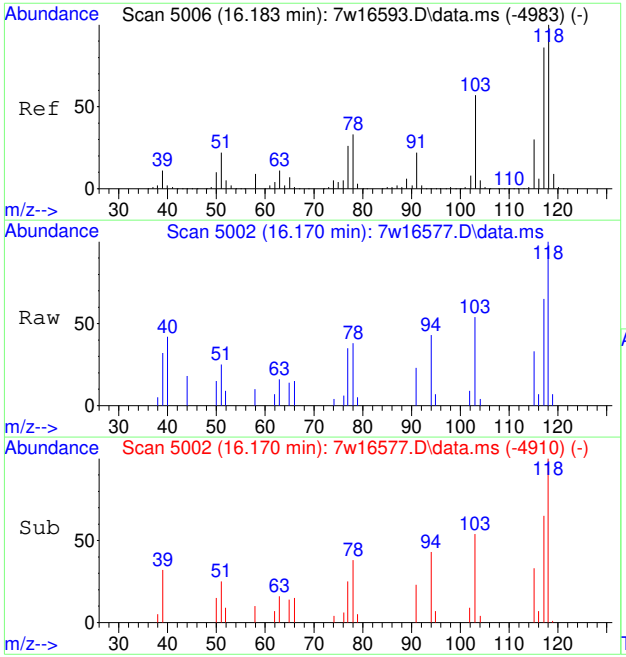


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 15.829 min Scan# 4896
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6383

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.2	69.2#
91	3.4	7.5	13.9#

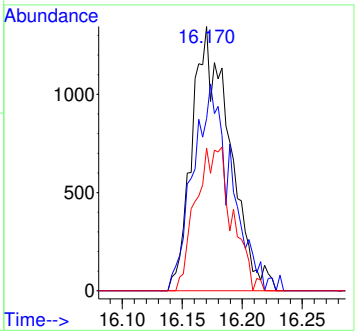


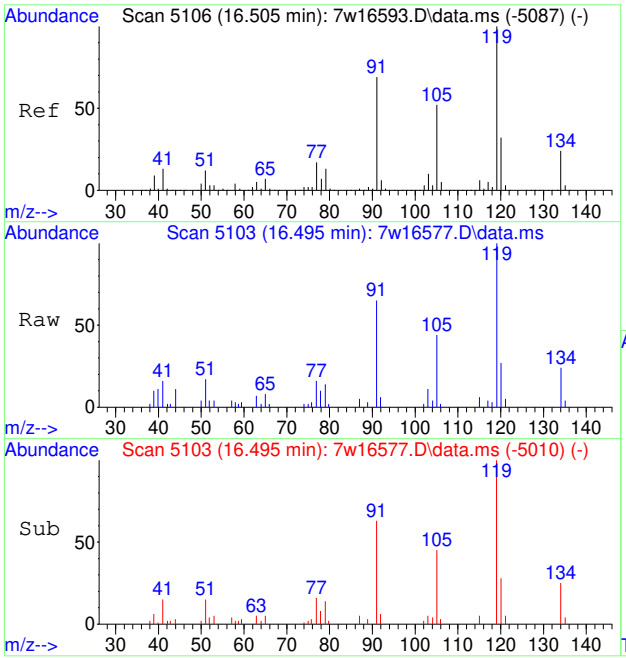


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.170 min Scan# 5002
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:118 Resp: 2929

Ion	Ratio	Lower	Upper
118	100		
117	80.1	59.9	111.3
103	52.7	36.2	67.2

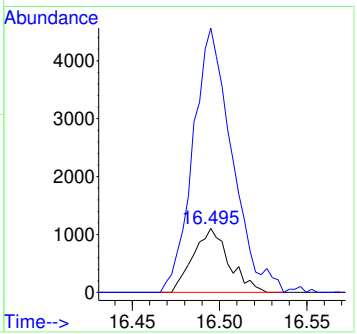


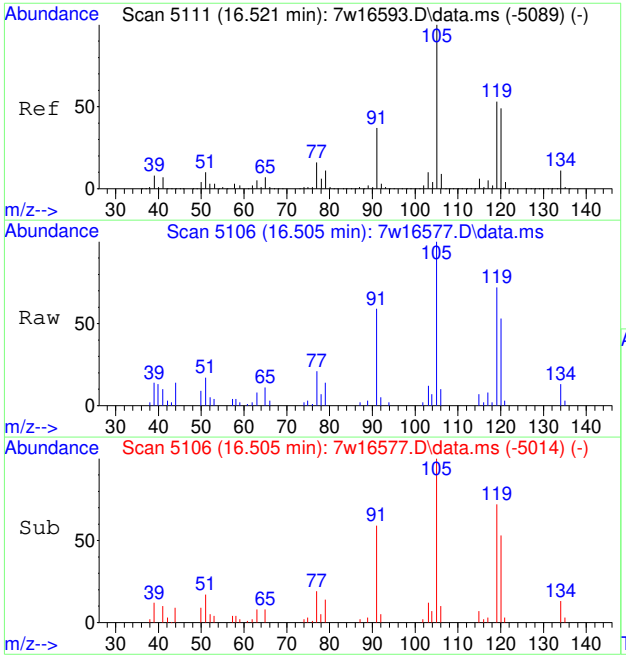


#95
TERT-BUTYLBENZENE
Concen: 0.10 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1569

Ion	Ratio	Lower	Upper
134	100		
119	455.9	307.9	571.7

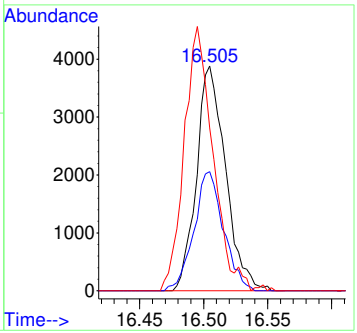


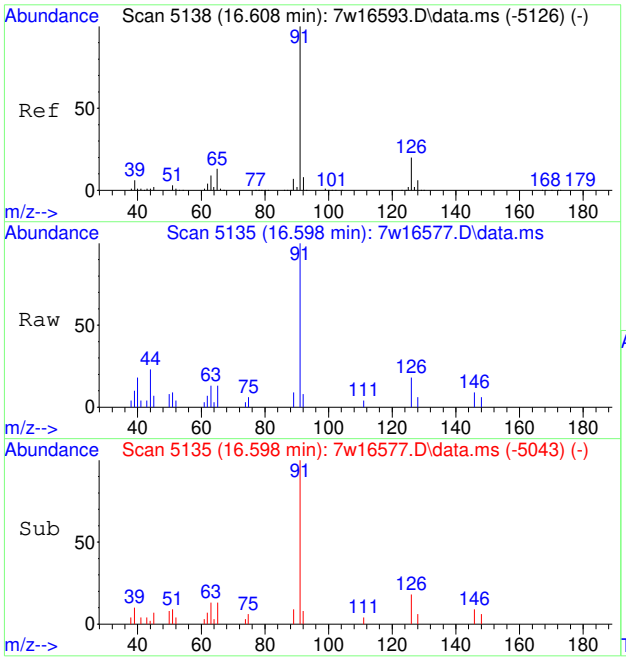


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6125

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	116.8	78.0	144.8

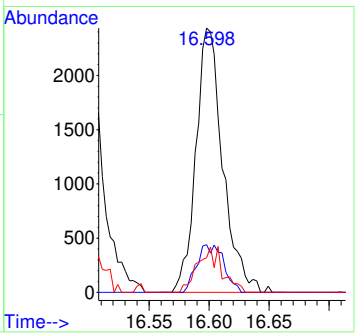


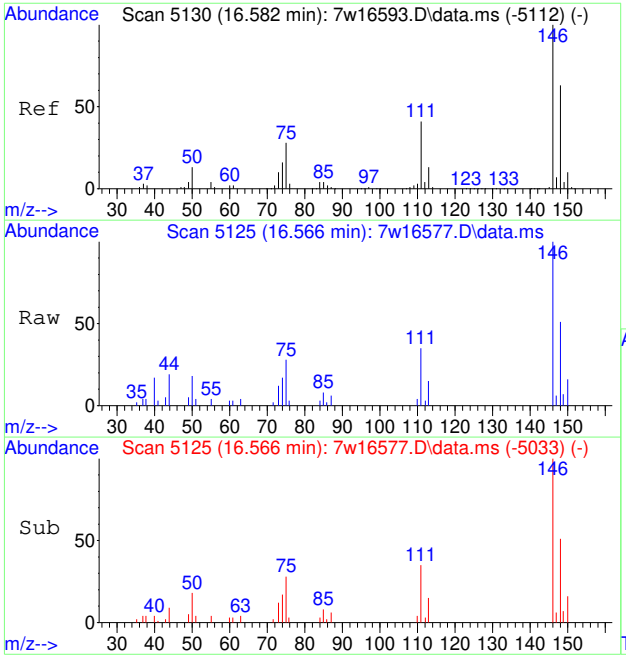


#97
BENZYL CHLORIDE
Concen: 0.07 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 3788

Ion	Ratio	Lower	Upper
91	100		
126	18.1	17.2	32.0
65	15.8	7.3	13.7#

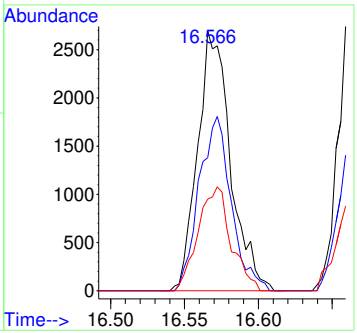


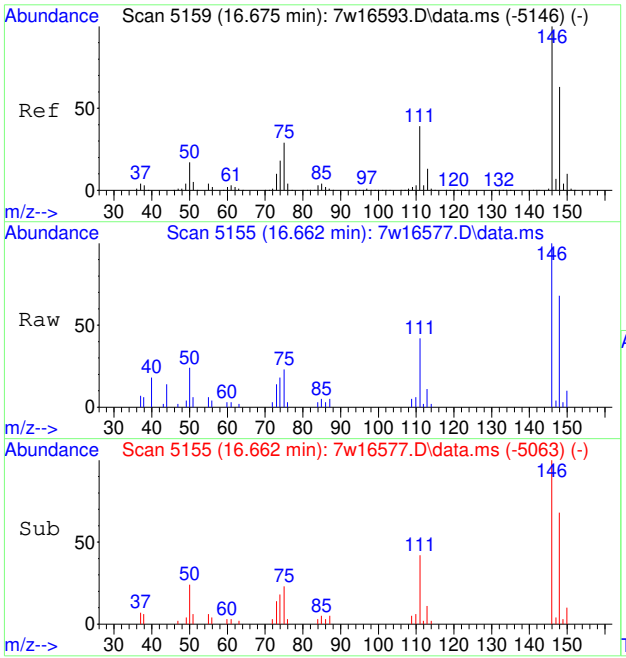


#98
M-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.566 min Scan# 5125
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4159

Ion	Ratio	Lower	Upper
146	100		
148	65.3	44.2	82.2
111	40.1	25.4	47.2

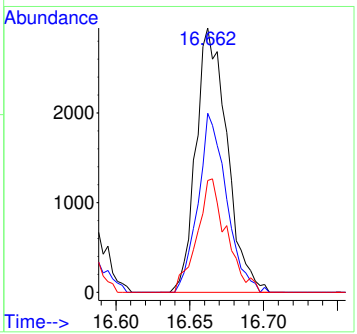


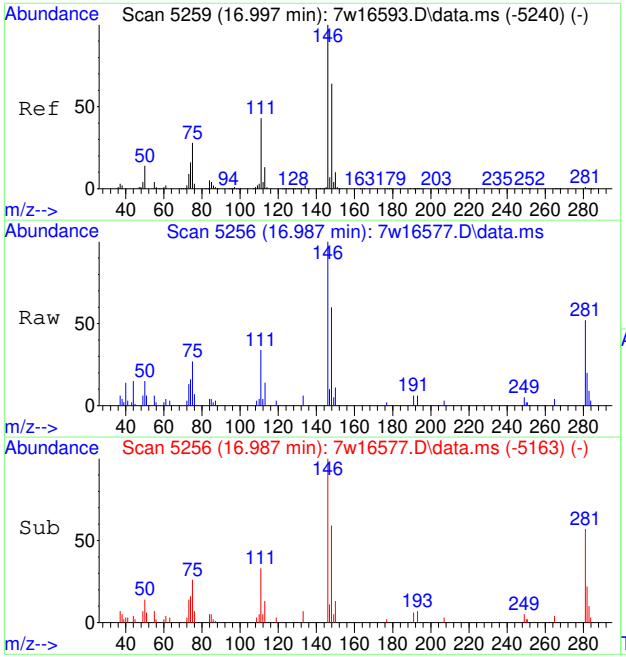


#99
P-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4312

Ion	Ratio	Lower	Upper
146	100		
148	61.9	44.7	82.9
111	40.9	24.8	46.1

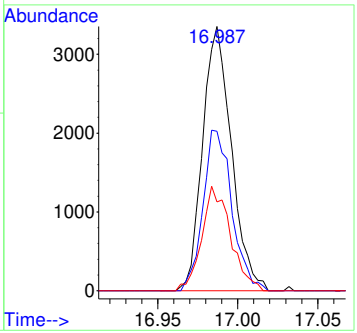


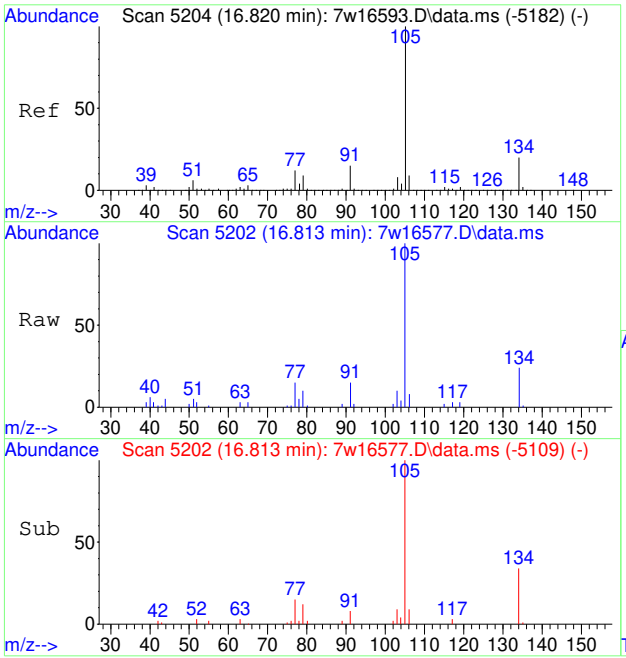


#100
O-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4193

Ion	Ratio	Lower	Upper
146	100		
148	60.9	44.6	82.8
111	39.6	26.9	50.1

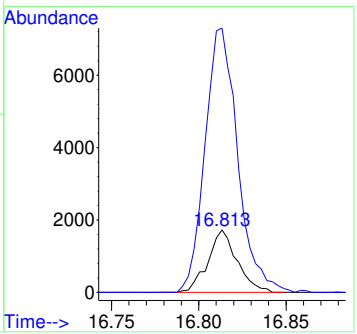


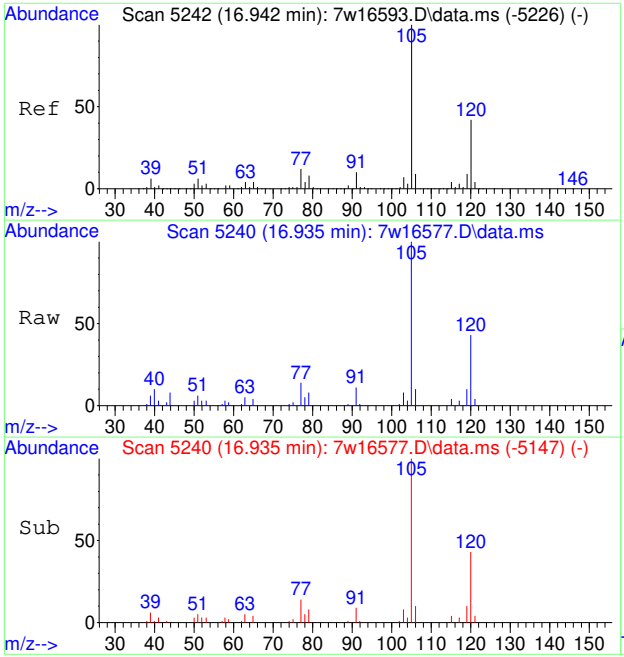


#101
SEC-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2000

Ion	Ratio	Lower	Upper
134	100		
105	476.9	314.4	584.0

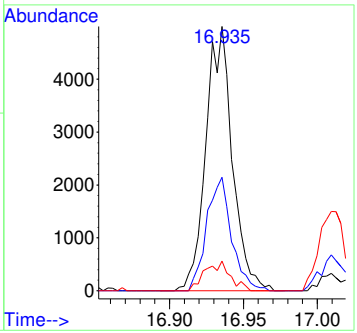


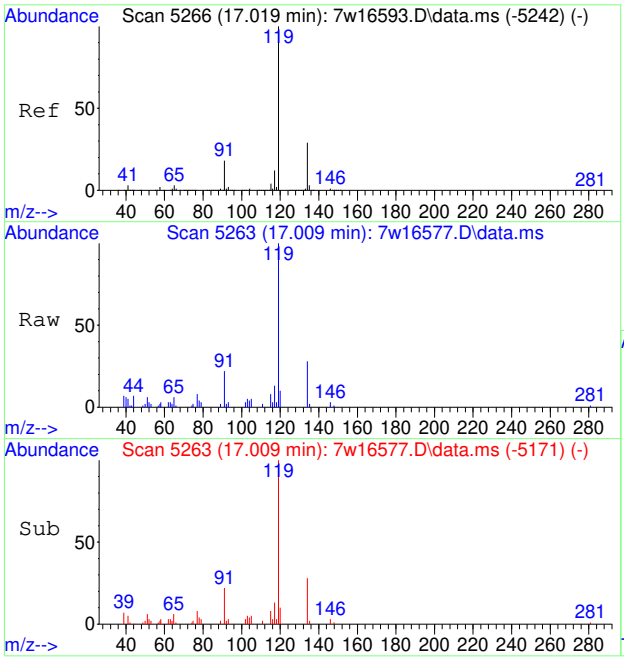


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6206

Ion	Ratio	Lower	Upper
105	100		
120	40.4	31.9	59.2
91	10.7	7.3	13.5

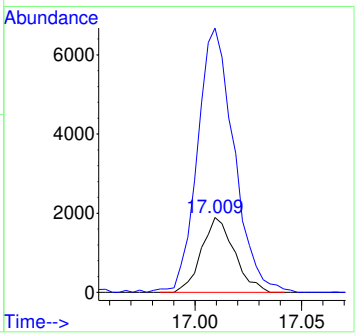


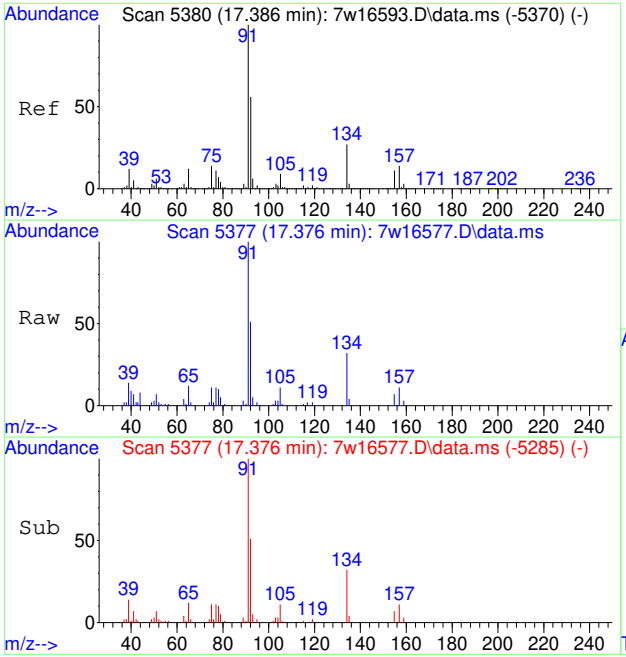


#103
P-ISOPROPYLTOLUENE
Concen: 0.10 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2027

Ion	Ratio	Lower	Upper
134	100		
119	394.0	253.7	471.3

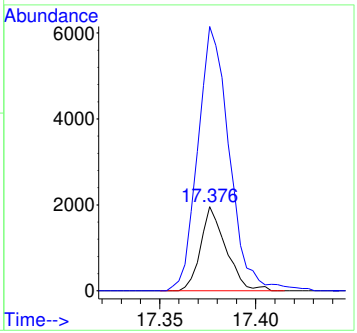


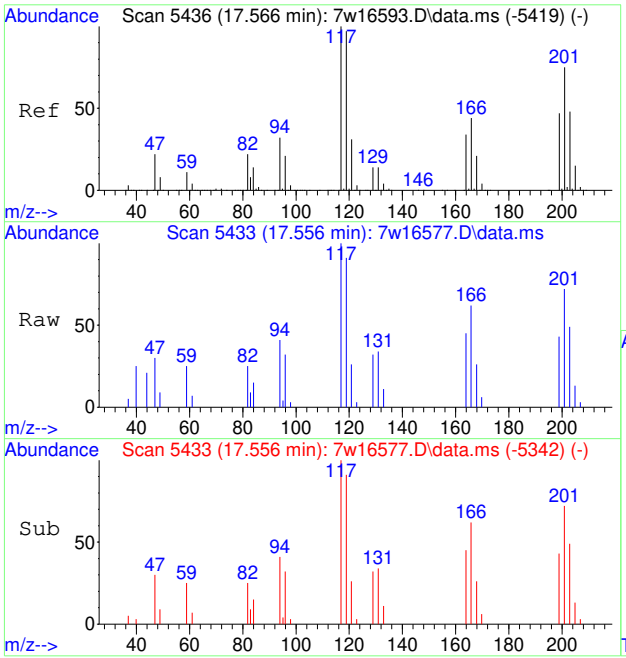


#104
N-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1794

Ion	Ratio	Lower	Upper
134	100		
91	392.4	231.1	429.1

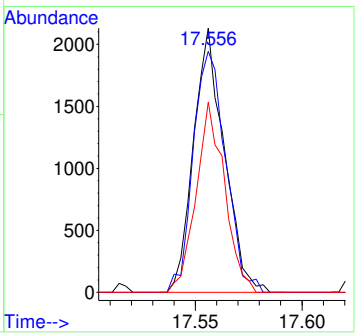


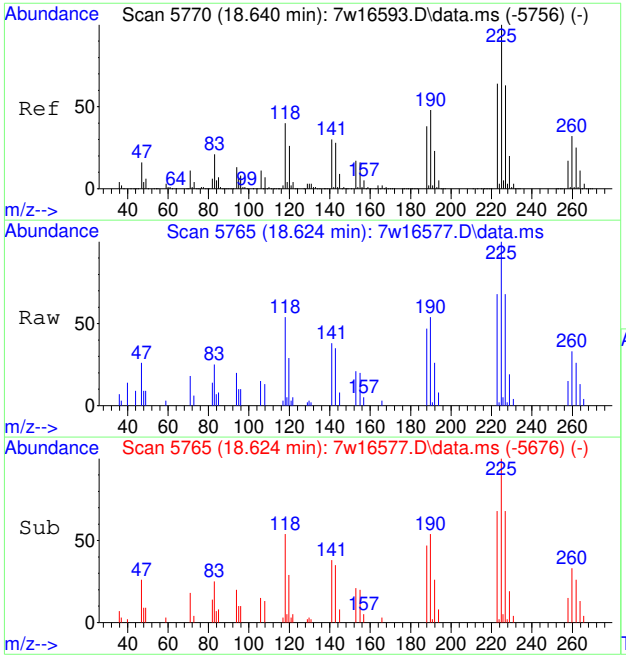


#105
HEXACHLOROETHANE
Concen: 0.09 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2143

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	66.7	45.9	85.3

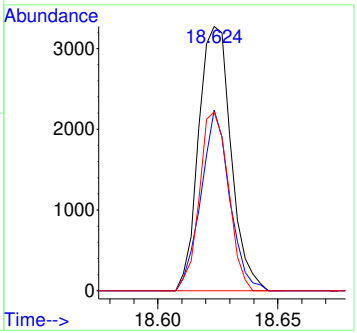


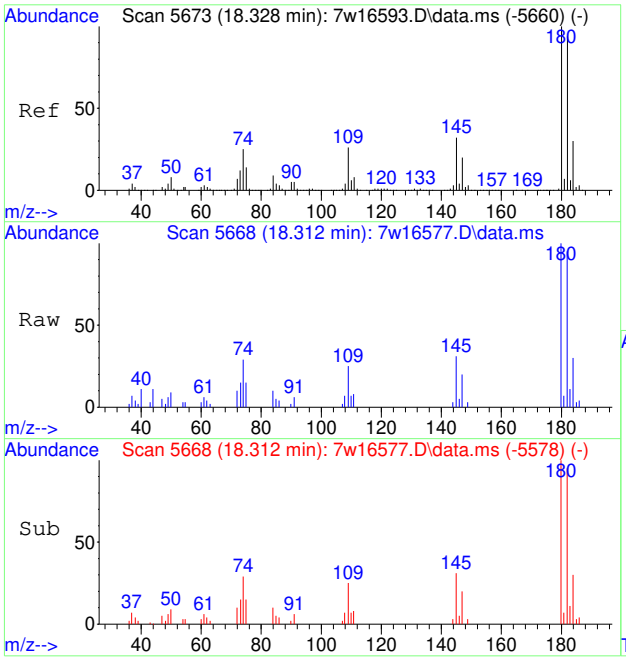


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.624 min Scan# 5765
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:225 Resp: 3071

Ion	Ratio	Lower	Upper
225	100		
227	60.4	44.4	82.5
223	60.5	44.7	83.1

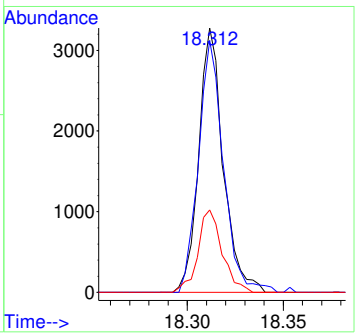


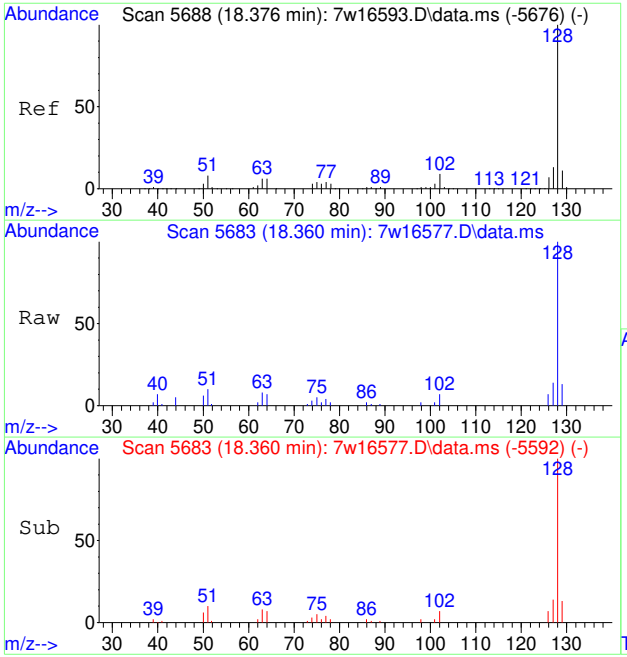


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.08 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:180 Resp: 2908

Ion	Ratio	Lower	Upper
180	100		
182	97.8	66.8	124.0
145	31.0	23.1	42.9

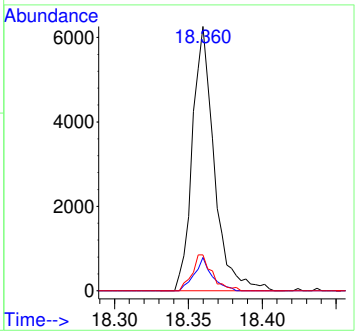




#108
NAPHTHALENE
Concen: 0.08 PPBV
RT: 18.360 min Scan# 5683
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:128 Resp: 6418

Ion	Ratio	Lower	Upper
128	100		
129	10.1	7.3	13.7
127	12.5	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16577.D
Injection Time: 08/07/25 04:38

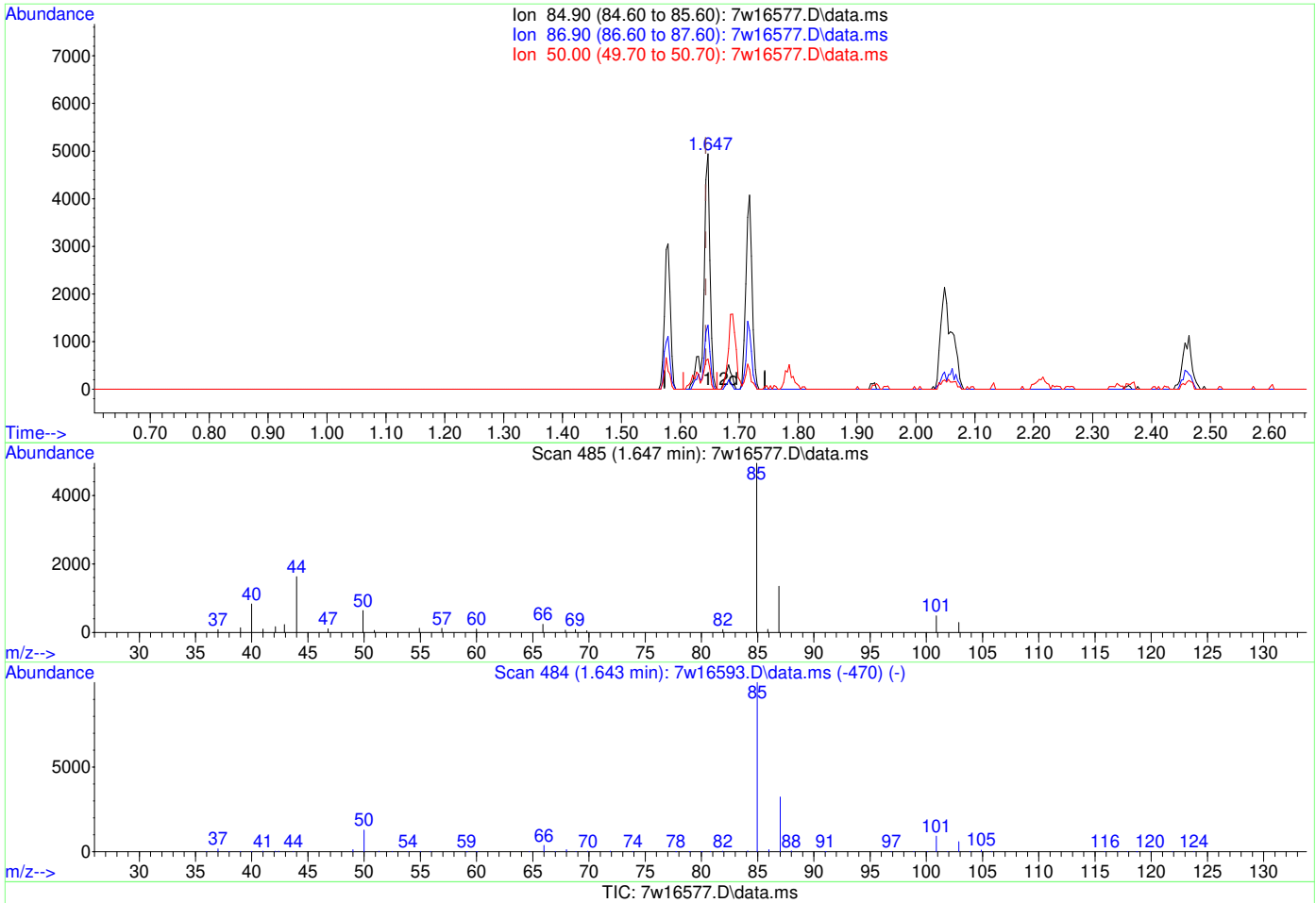
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.11PPBV

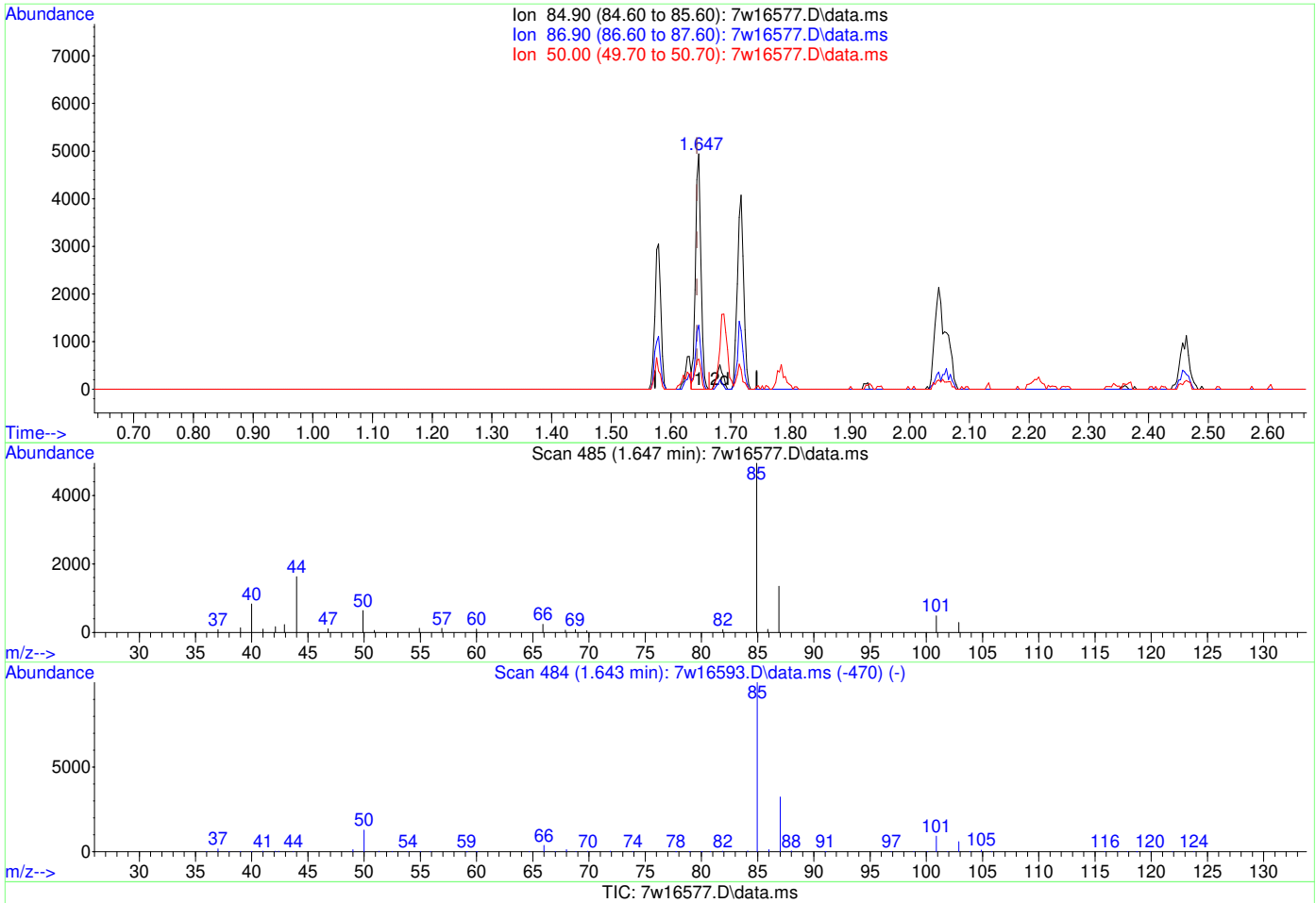
response 3582

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	30.29
50.00	17.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.09PPBV m

response 3122

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.75
50.00	17.30	24.76#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114690	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	581918	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	540272	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114690	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	425835	9.69	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	2657	0.18	PPBV		86
3) FREON 152A	1.605	65	1240	0.18	PPBV		85
4) CHLORODIFLUOROMETHANE	1.618	67	552	0.17	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	2985	0.19	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.644	85	5428m	0.16	PPBV		
7) PROPYLENE	1.627	41	1949	0.21	PPBV		93
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	5125	0.20	PPBV	#	88
9) FREON 114	1.714	85	5306	0.18	PPBV		85
10) CHLOROMETHANE	1.685	52	806	0.21	PPBV		85
11) VINYL CHLORIDE	1.746	62	2445	0.17	PPBV		96
12) 1,3-BUTADIENE	1.785	54	2011	0.18	PPBV	#	73
13) N-BUTANE	1.801	43	4132	0.22	PPBV	#	41
14) BROMOMETHANE	1.859	94	2032	0.19	PPBV		98
15) CHLOROETHANE	1.904	64	1408	0.19	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	4948	0.18	PPBV		95
17) ACETONITRILE	1.997	41	2687	0.23	PPBV		99
18) ACROLEIN	2.033	56	1361	0.22	PPBV		87
19) FREON 123	2.045	83	5339	0.19	PPBV		97
20) FREON 123A	2.065	117	3198	0.20	PPBV	#	51
21) TRICHLOROFLUOROMETHANE	2.126	101	5808	0.18	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	6133	0.23	PPBV		91
23) ACETONE	2.074	58	1566	0.22	PPBV		69
24) PENTANE	2.238	42	2893	0.21	PPBV	#	82
25) IODOMETHANE	2.303	142	5560	0.19	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.325	96	2379	0.20	PPBV	#	70
27) CARBON DISULFIDE	2.460	76	6298	0.18	PPBV	#	80
28) ETHANOL	1.933	45	1573	0.23	PPBV		95
29) BROMOETHENE	2.000	106	2033	0.18	PPBV		99
30) ACRYLONITRILE	2.213	52	2213	0.22	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	2222	0.20	PPBV	#	78
32) 3-CHLOROPROPENE	2.406	76	1202	0.19	PPBV		77
33) FREON 113	2.457	151	3430	0.19	PPBV		82
34) TRANS-1,2-DICHLOROETHENE	2.685	96	2282	0.18	PPBV	#	60
35) TERTIARY BUTYL ALCOHOL	2.345	59	5515	0.17	PPBV		97
36) METHYL TERTIARY BUTYL ...	2.798	73	6887	0.19	PPBV	#	88
37) TETRAHYDROFURAN	3.489	72	887	0.14	PPBV	#	49
38) HEXANE	3.238	57	4468	0.18	PPBV		87
39) VINYL ACETATE	2.830	86	581	0.16	PPBV	#	53
40) 1,1-DICHLOROETHANE	2.759	63	4599	0.18	PPBV		97
41) METHYL ETHYL KETONE	2.926	72	1205	0.18	PPBV	#	81
42) CIS-1,2-DICHLOROETHENE	3.113	96	2527	0.19	PPBV	#	78
43) DIISOPROPYL ETHER	3.248	59	1371	0.20	PPBV		89
44) ETHYL ACETATE	3.261	61	871	0.18	PPBV	#	77
45) METHYL ACRYLATE	3.238	55	5488	0.18	PPBV	#	96
46) CHLOROFORM	3.258	83	5027	0.19	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	5307	0.19	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	5006	0.18	PPBV		95
49) CARBON TETRACHLORIDE	4.232	117	4884	0.16	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.660	62	3746	0.18	PPBV	#	96
51) BENZENE	4.126	78	7569	0.19	PPBV		91
53) CYCLOHEXANE	4.338	84	3276	0.18	PPBV	#	64
54) 2,3-DIMETHYLPENTANE	4.582	71	1571	0.17	PPBV	#	52
55) TRICHLOROETHENE	5.010	95	3186	0.17	PPBV		84
56) 1,2-DICHLOROPROPANE	4.785	63	2832	0.17	PPBV		93
57) DIBROMOMETHANE	4.740	174	2923	0.19	PPBV		89
58) ETHYL ACRYLATE	4.907	55	6937	0.18	PPBV	#	95
59) BROMODICHLOROMETHANE	4.959	83	5187	0.16	PPBV		92
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	15119	0.19	PPBV	#	94
61) 1,4-DIOXANE	5.090	88	1375	0.15	PPBV	#	1
62) HEPTANE	5.425	43	5077	0.19	PPBV		91
63) METHYL METHACRYLATE	5.328	69	2638	0.17	PPBV		84
64) METHYL ISOBUTYL KETONE	6.058	58	2634	0.17	PPBV	#	88
65) CIS-1,3-DICHLOROPROPENE	5.936	75	4430	0.17	PPBV		99
66) TOLUENE	7.129	91	9065	0.19	PPBV		99
67) 1,3-DICHLOROPROPANE	7.187	76	4438	0.18	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	6.611	75	3506	0.14	PPBV		95
69) 1,1,2-TRICHLOROETHANE	6.766	83	2630	0.18	PPBV		94
70) 2-HEXANONE	7.724	58	3463	0.17	PPBV	#	84
71) ETHYL METHACRYLATE	7.839	69	4472	0.17	PPBV	#	87
72) TETRACHLOROETHENE	8.846	164	3315	0.19	PPBV		97
73) DIBROMOCHLOROMETHANE	7.656	129	4563	0.15	PPBV		96
74) 1,2-DIBROMOETHANE	7.994	107	4734	0.19	PPBV	#	97
75) OCTANE	8.994	43	6956	0.19	PPBV		89
77) 1,1,1,2-TETRACHLOROETHANE	10.048	131	3463	0.16	PPBV		87
78) CHLOROBENZENE	10.045	112	7506	0.19	PPBV		87
79) ETHYLBENZENE	10.923	91	12148	0.19	PPBV		93
80) M,P-XYLENE	11.344	91	19306	0.37	PPBV		87
81) O-XYLENE	12.280	91	9544	0.19	PPBV		92
82) STYRENE	12.064	104	6329	0.16	PPBV	#	90
83) NONANE	13.396	43	7642	0.20	PPBV		86
84) BROMOFORM	11.151	173	3912	0.15	PPBV		98
85) 1,1,2,2-TETRACHLOROETHANE	12.289	83	7071	0.19	PPBV		96
86) 1,2,3-TRICHLOROPROPANE	12.569	75	5376	0.19	PPBV	#	99
88) ISOPROPYLBENZENE	13.791	120	3578	0.19	PPBV	#	69
89) BROMOBENZENE	13.646	77	6796	0.19	PPBV		75
90) 2-CHLOROTOLUENE	14.781	126	2989	0.16	PPBV		99
91) N-PROPYLBENZENE	15.129	120	3735	0.18	PPBV		99
92) 4-ETHYLTOLUENE	15.572	105	13365	0.18	PPBV		96
93) 1,3,5-TRIMETHYLBENZENE	15.836	105	11247	0.18	PPBV	#	89
94) ALPHA-METHYLSTYRENE	16.180	118	4973	0.15	PPBV		95
95) TERT-BUTYLBENZENE	16.498	134	2760	0.18	PPBV		91
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	11478	0.18	PPBV		98
97) BENZYL CHLORIDE	16.595	91	6914	0.13	PPBV	#	90
98) M-DICHLOROBENZENE	16.569	146	7589	0.18	PPBV		96
99) P-DICHLOROBENZENE	16.665	146	7856	0.19	PPBV		96
100) O-DICHLOROBENZENE	16.987	146	7325	0.19	PPBV		96
101) SEC-BUTYLBENZENE	16.813	134	3439	0.19	PPBV		82
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	11073	0.18	PPBV		95
103) P-ISOPROPYLTOLUENE	17.009	134	3722	0.18	PPBV		95
104) N-BUTYLBENZENE	17.379	134	3557	0.18	PPBV		86
105) HEXACHLOROETHANE	17.559	117	3887	0.16	PPBV		97
106) HEXACHLOROBUTADIENE	18.630	225	5583	0.21	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.315	180	5618	0.16	PPBV		98
108) NAPHTHALENE	18.363	128	11029	0.14	PPBV		99
110) TVHC as equiv Pentane	2.238	TIC	17908	0.28	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

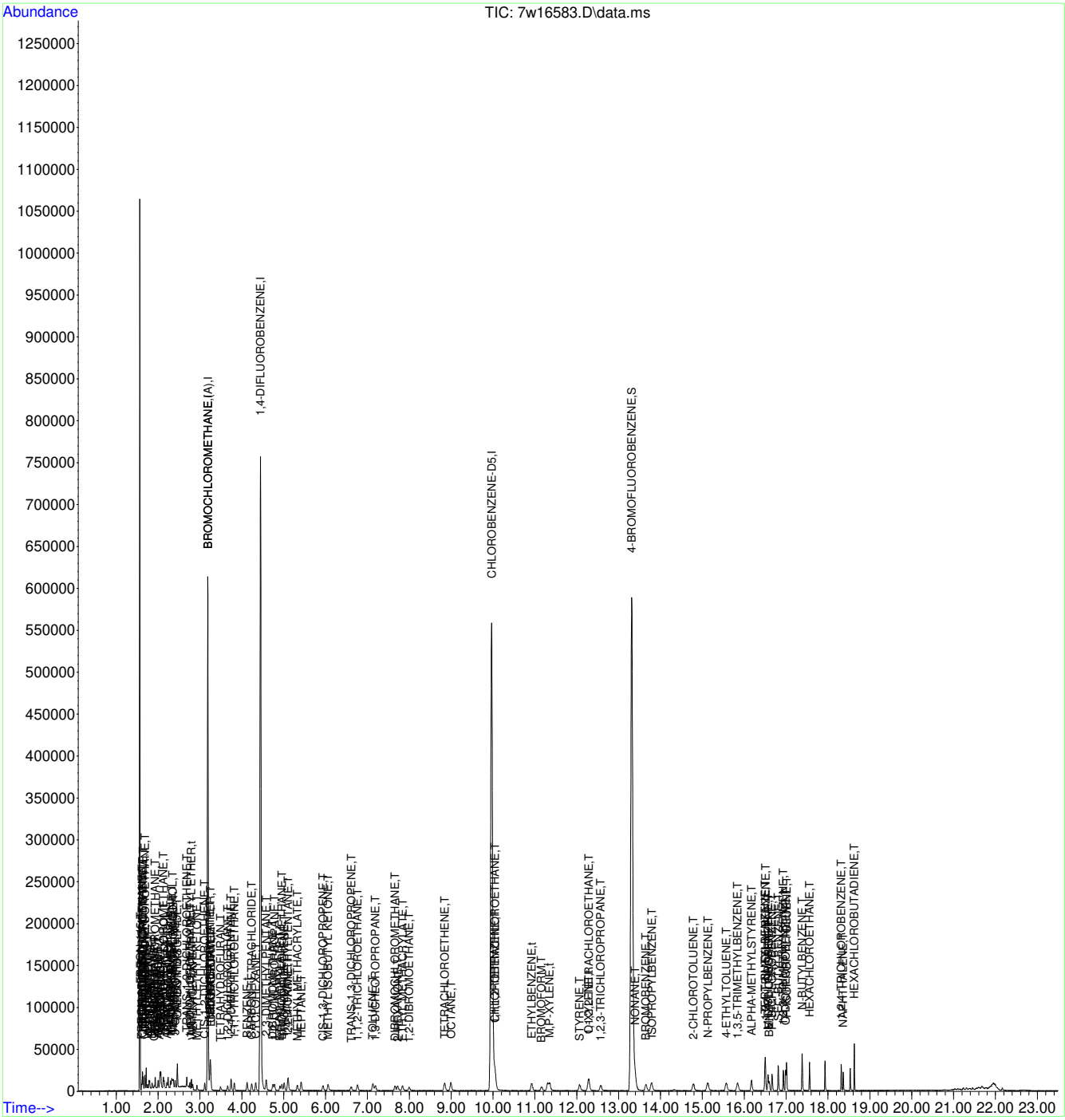
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

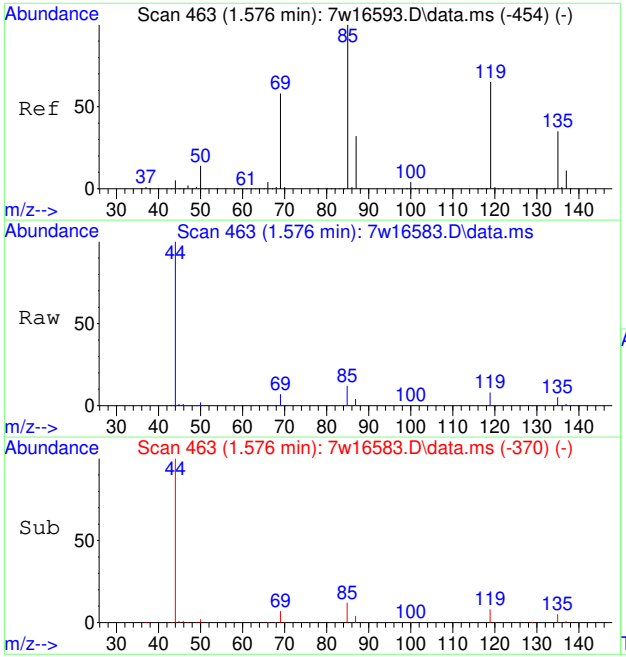
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

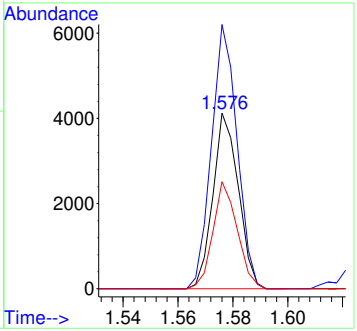


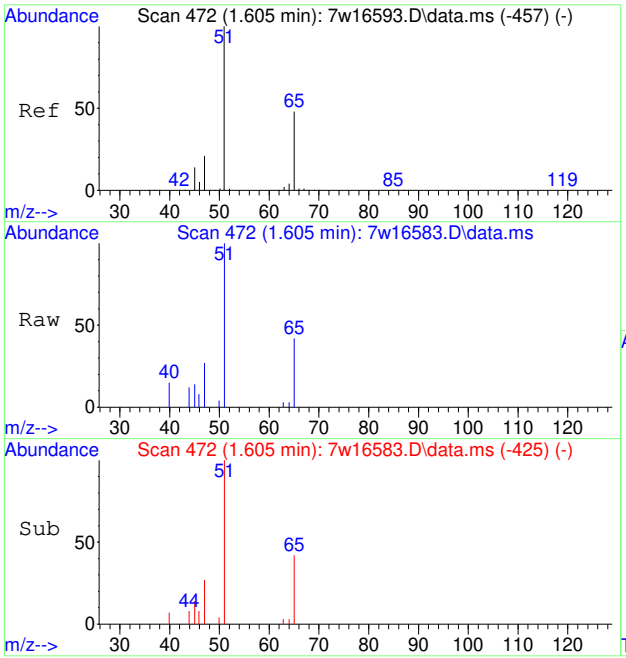


#2
FREON 115
Concen: 0.18 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:119 Resp: 2657

Ion	Ratio	Lower	Upper
119	100		
85	151.2	90.9	168.7
135	58.3	38.2	71.0

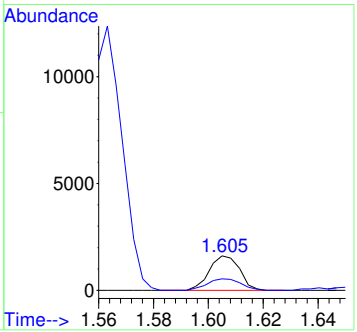


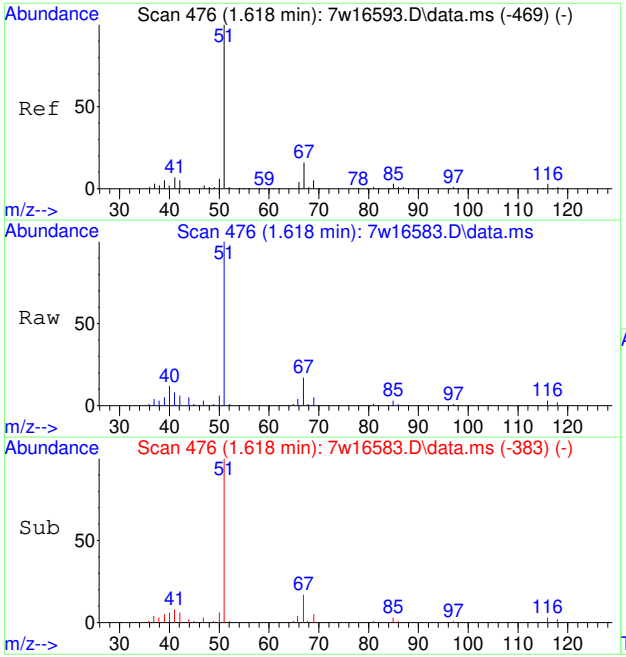


#3
FREON 152A
Concen: 0.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 1240

Ion	Ratio	Lower	Upper
65	100		
45	37.4	20.6	38.4

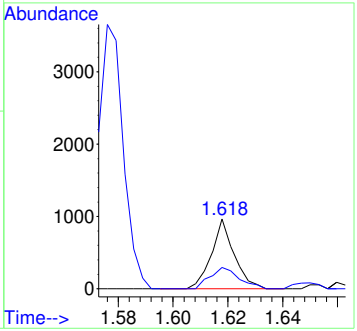


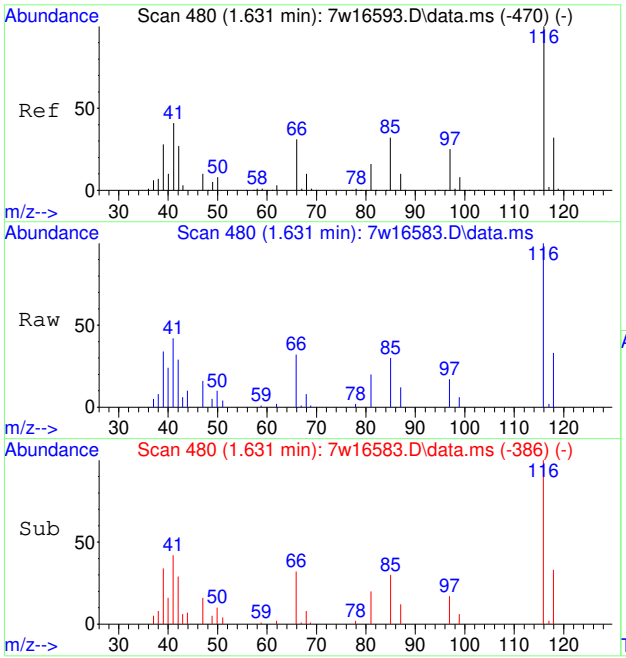


#4
CHLORODIFLUOROMETHANE
Concen: 0.17 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 552

Ion	Ratio	Lower	Upper
67	100		
69	39.3	25.4	47.2

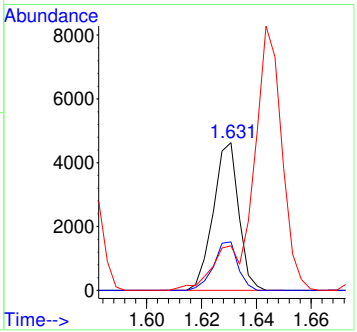


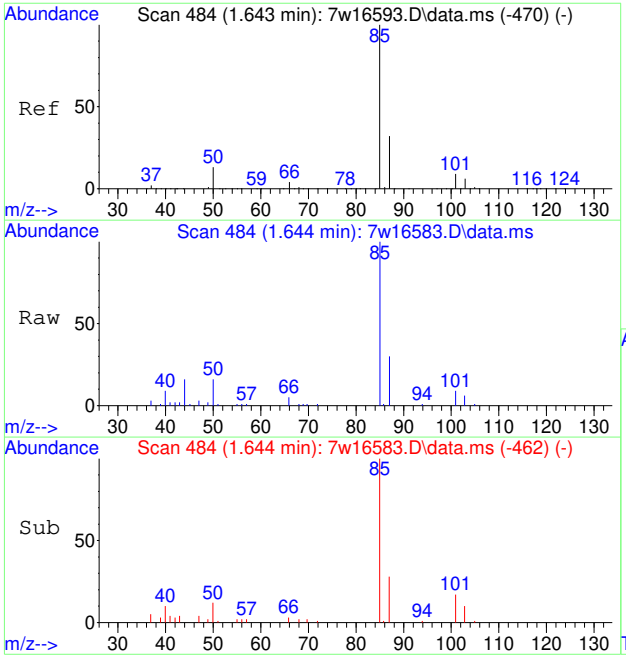


#5
CHLOROTRIFLUOROETHENE
Concen: 0.19 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:116 Resp: 2985

Ion	Ratio	Lower	Upper
116	100		
118	31.6	22.7	42.1
85	215.0	194.7	361.7

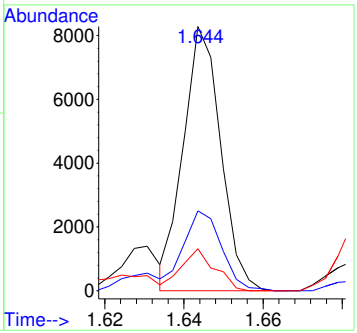


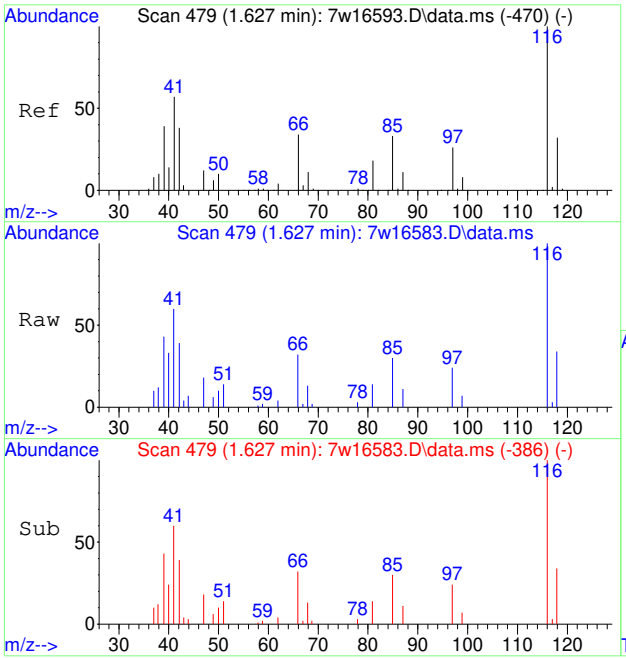


#6
DICHLORODIFLUOROMETHANE
Concen: 0.16 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5428

Ion	Ratio	Lower	Upper
85	100		
87	37.7	23.1	42.9
50	25.0	12.1	22.5#

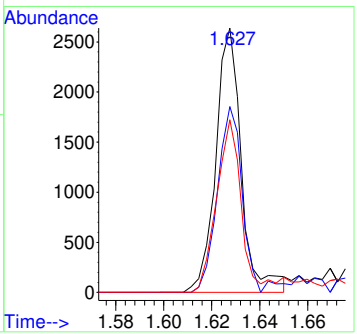


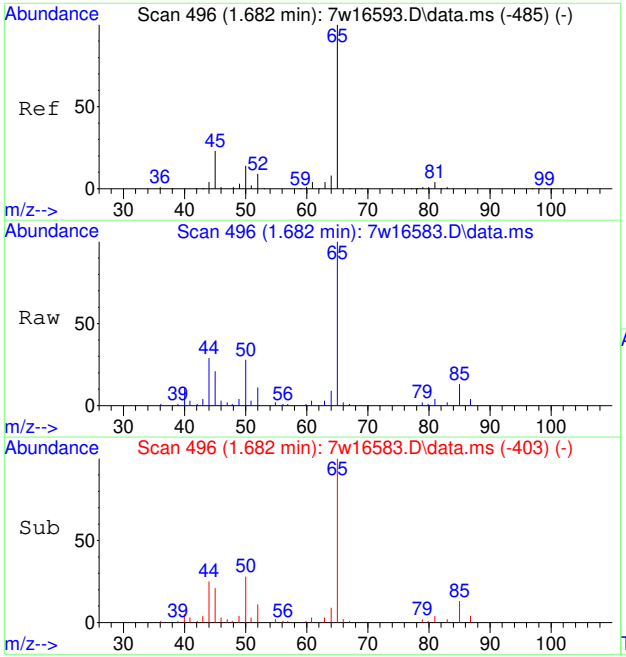


#7
PROPYLENE
Concen: 0.21 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 1949

Ion	Ratio	Lower	Upper
41	100		
39	69.6	51.0	94.8
42	74.5	46.6	86.6

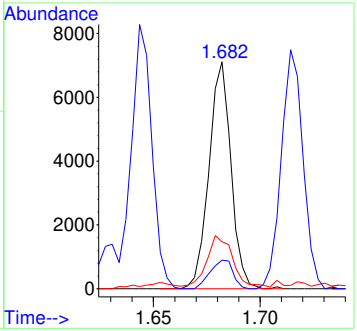


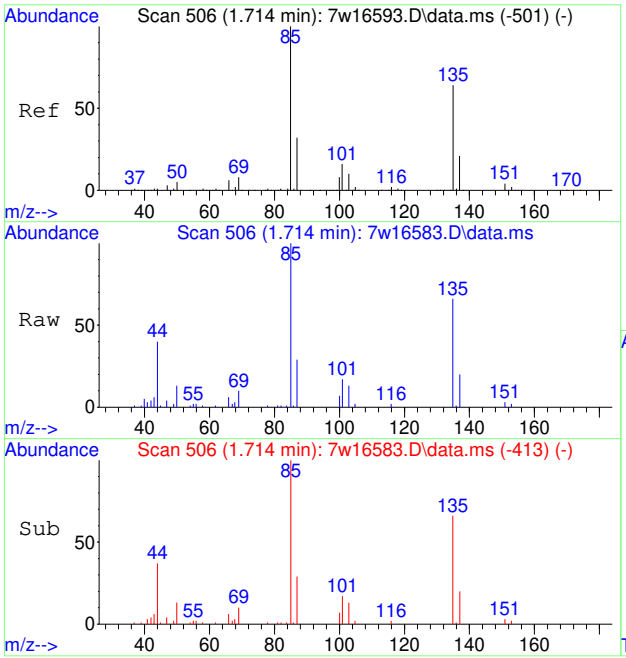


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.20 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 5125

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	33.1	17.0	31.6#

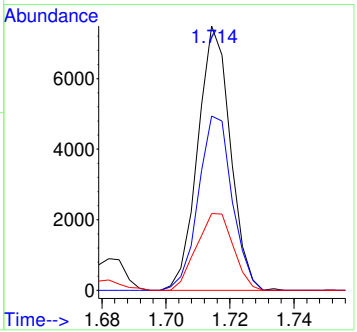


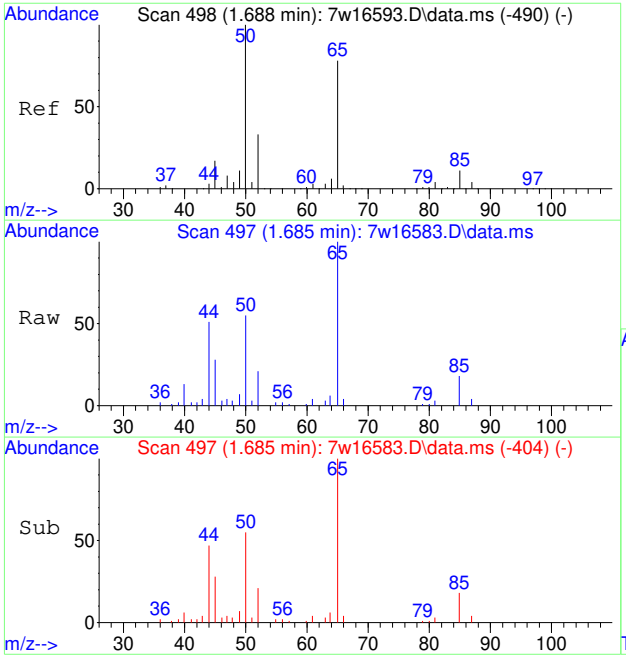


#9
FREON 114
Concen: 0.18 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5306

Ion	Ratio	Lower	Upper
85	100		
135	68.3	61.3	113.9
87	32.8	23.2	43.0

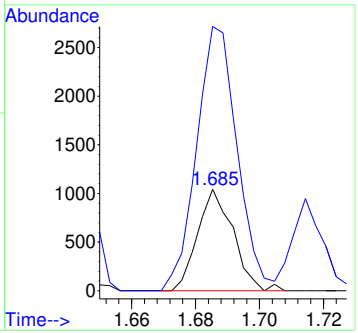


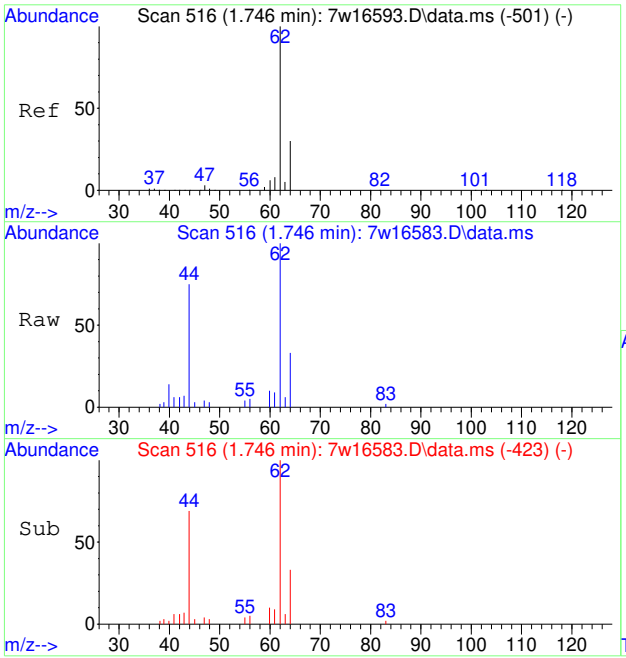


#10
CHLOROMETHANE
Concen: 0.21 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 806

Ion	Ratio	Lower	Upper
52	100		
50	294.8	227.6	422.6

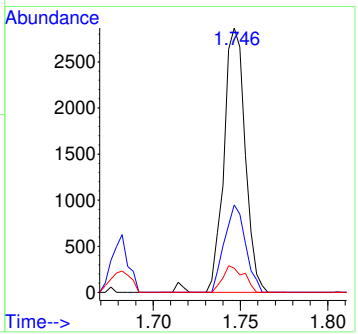


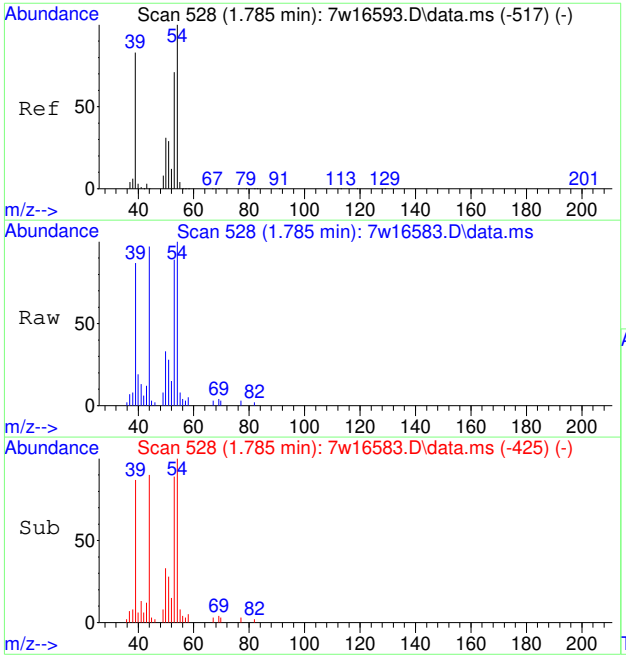


#11
VINYL CHLORIDE
Concen: 0.17 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 2445

Ion	Ratio	Lower	Upper
62	100		
64	32.8	21.6	40.2
61	9.9	5.7	10.7

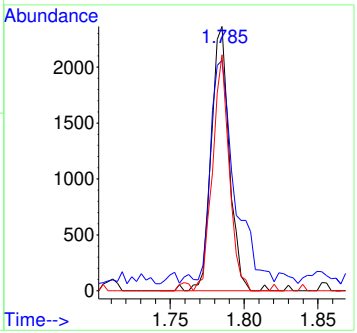


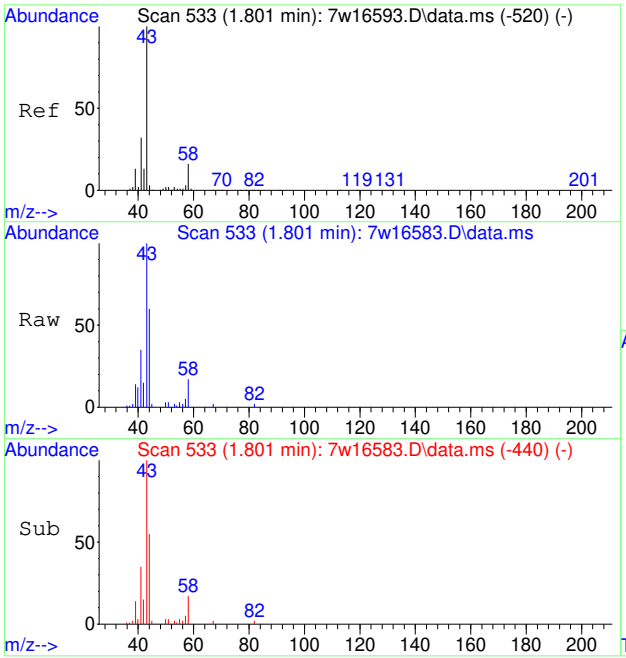


#12
1,3-BUTADIENE
Concen: 0.18 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 54 Resp: 2011

Ion	Ratio	Lower	Upper
54	100		
39	113.5	125.6	185.6#
53	83.8	40.7	100.7

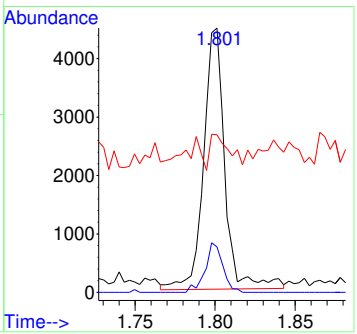


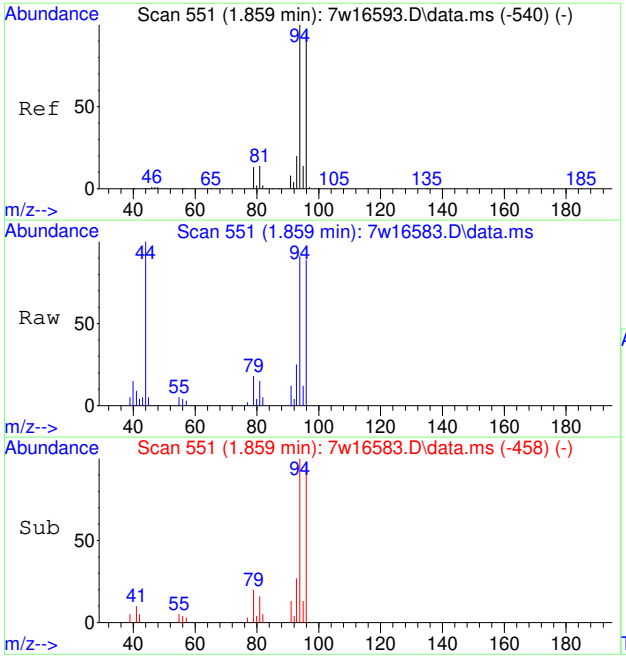


#13
N-BUTANE
Concen: 0.22 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 4132

Ion	Ratio	Lower	Upper
43	100		
58	15.6	10.4	19.4
44	88.8	3.0	5.6#

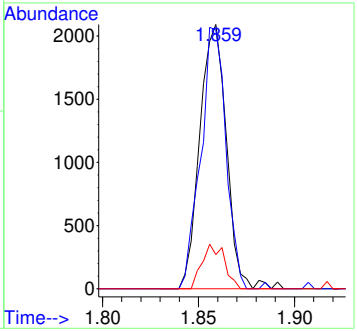


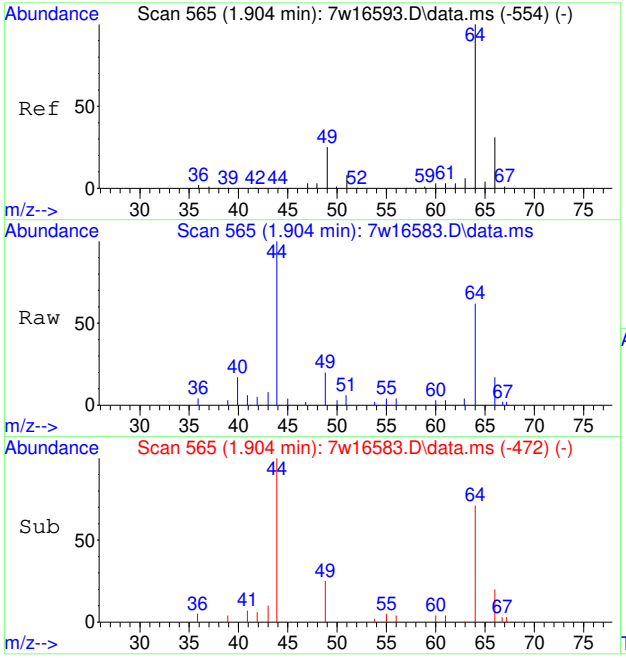


#14
BROMOMETHANE
Concen: 0.19 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 94 Resp: 2032

Ion	Ratio	Lower	Upper
94	100		
96	93.0	63.6	118.0
95	14.1	10.0	18.6

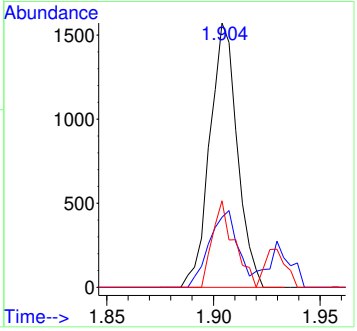


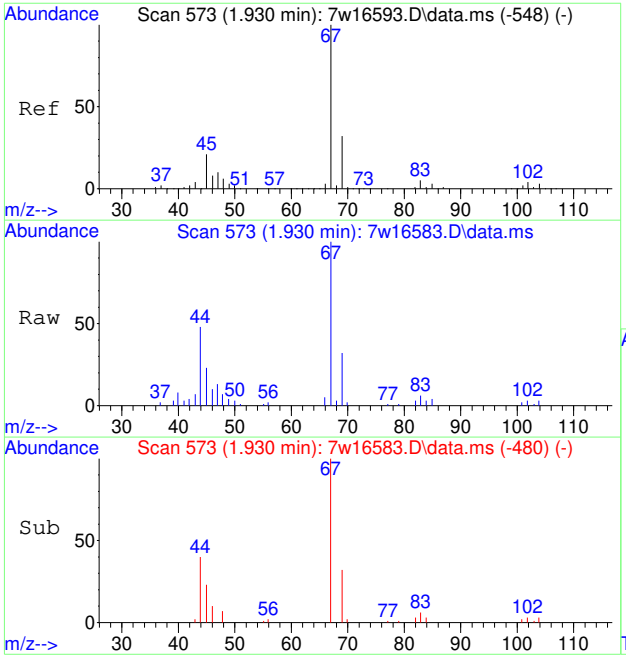


#15
CHLOROETHANE
Concen: 0.19 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 64 Resp: 1408

Ion	Ratio	Lower	Upper
64	100		
66	31.4	23.0	42.6
49	26.1	21.5	39.9

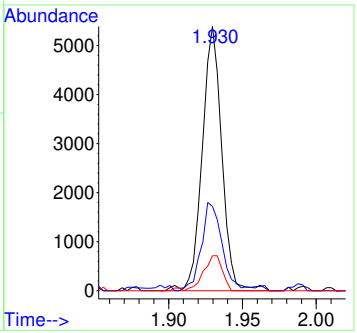


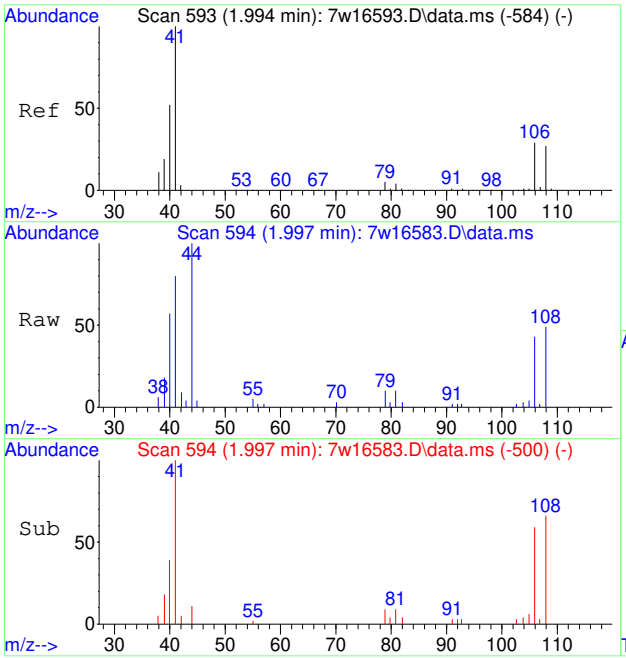


#16
DICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 4948

Ion	Ratio	Lower	Upper
67	100		
69	36.5	23.2	43.0
47	13.1	9.6	17.8

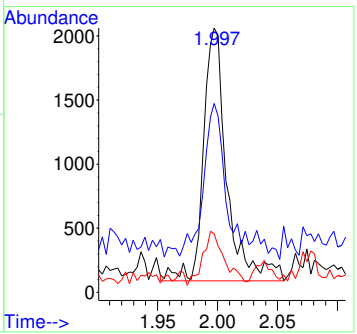


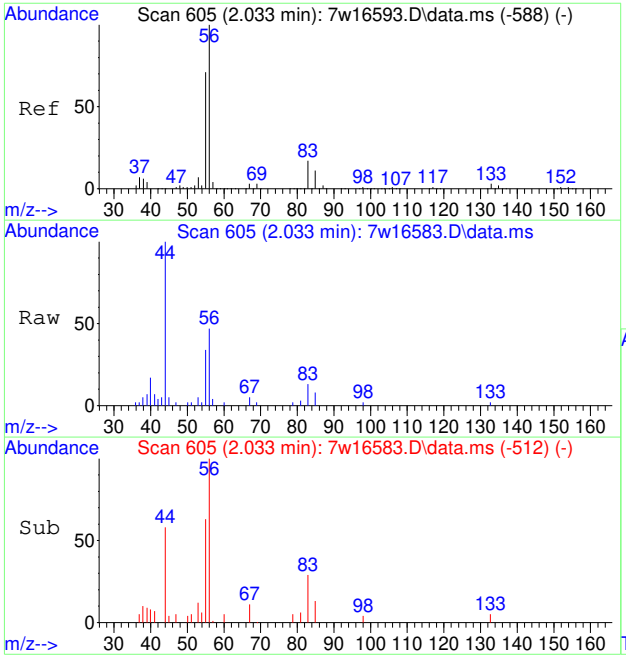


#17
ACETONITRILE
Concen: 0.23 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 2687

Ion	Ratio	Lower	Upper
41	100		
40	55.7	38.4	71.4
39	20.2	14.5	26.9

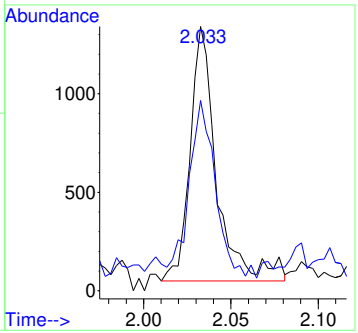


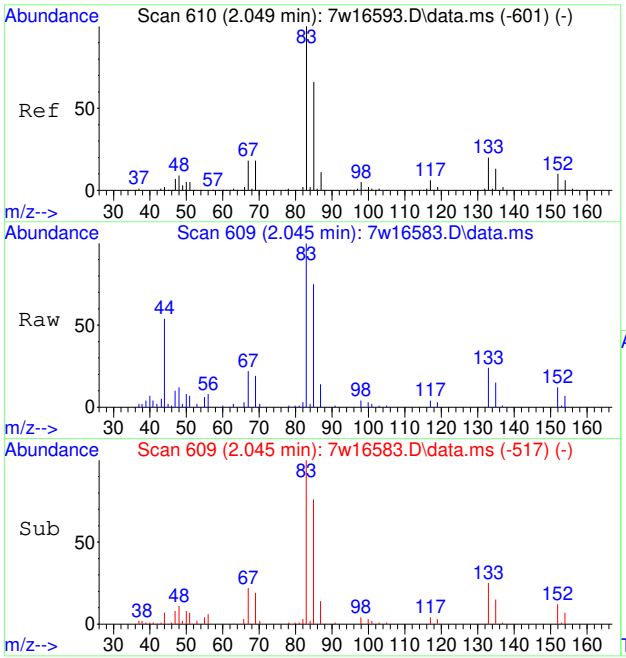


#18
ACROLEIN
Concen: 0.22 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 56 Resp: 1361

Ion	Ratio	Lower	Upper
56	100		
55	62.1	51.2	95.2

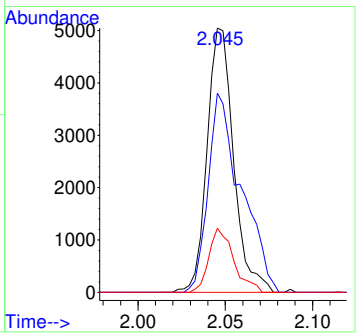


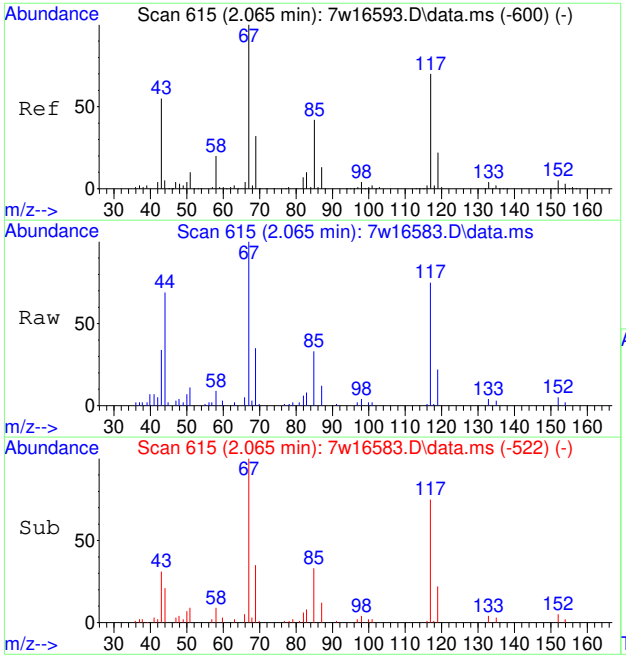


#19
FREON 123
Concen: 0.19 PPBV
RT: 2.045 min Scan# 609
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5339

Ion	Ratio	Lower	Upper
83	100		
85	94.1	65.7	121.9
133	22.7	19.9	36.9

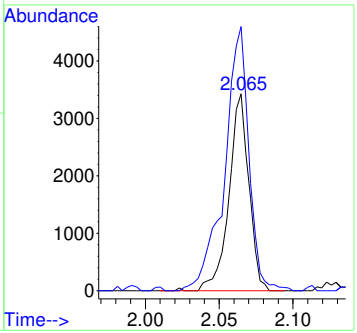


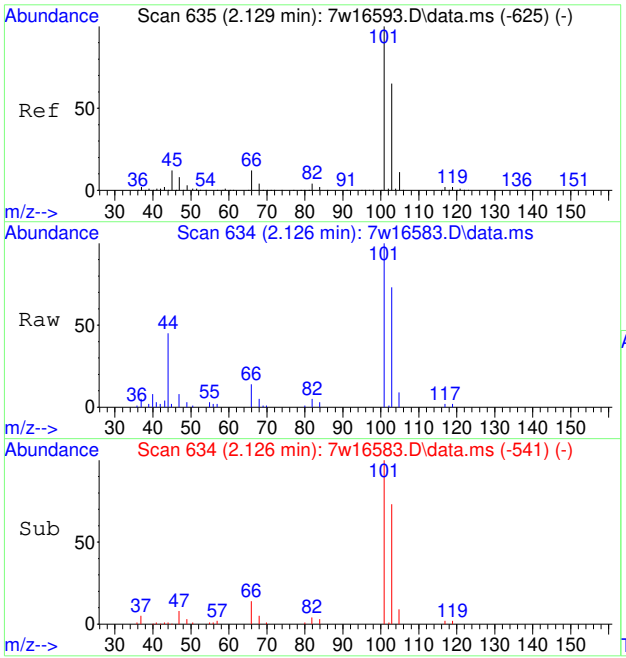


#20
FREON 123A
Concen: 0.20 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3198

Ion	Ratio	Lower	Upper
117	100		
67	164.6	78.8	146.4#

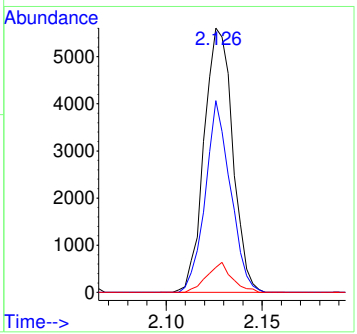


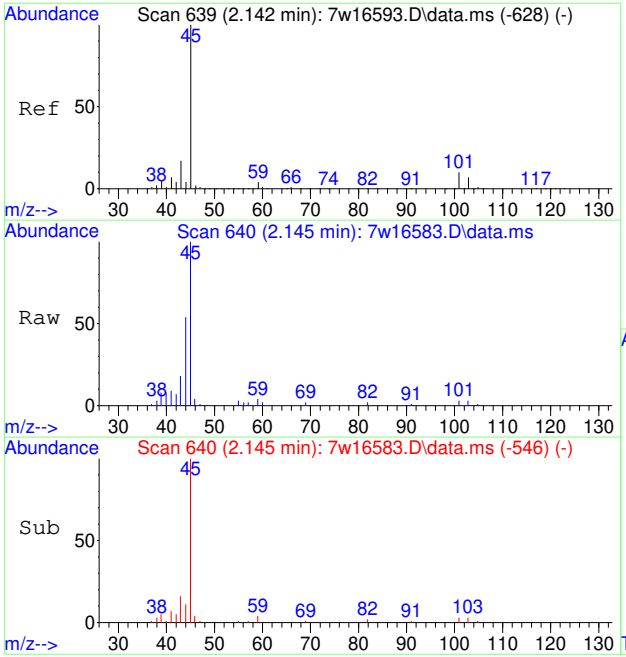


#21
TRICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:101 Resp: 5808

Ion	Ratio	Lower	Upper
101	100		
103	63.9	44.3	82.3
105	9.9	7.3	13.7

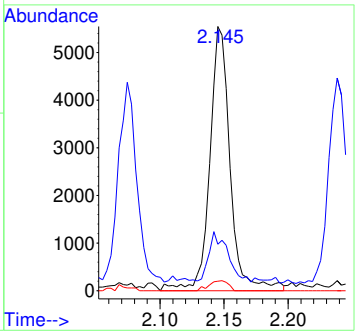


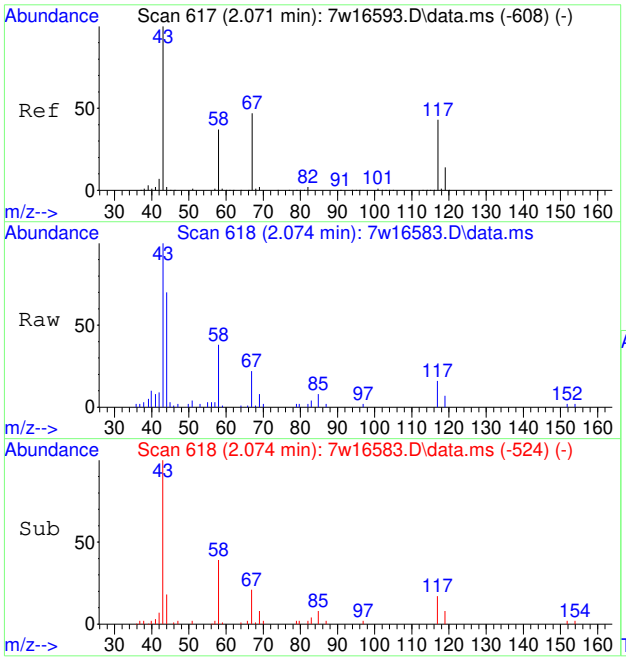


#22
ISOPROPYL ALCOHOL
Concen: 0.23 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 6133

Ion	Ratio	Lower	Upper
45	100		
43	19.2	17.1	31.9
59	3.7	3.1	5.8

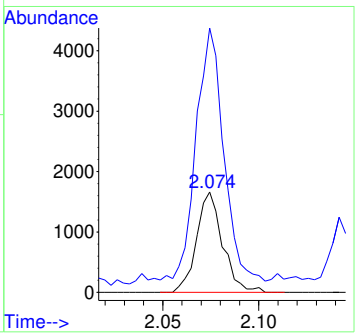


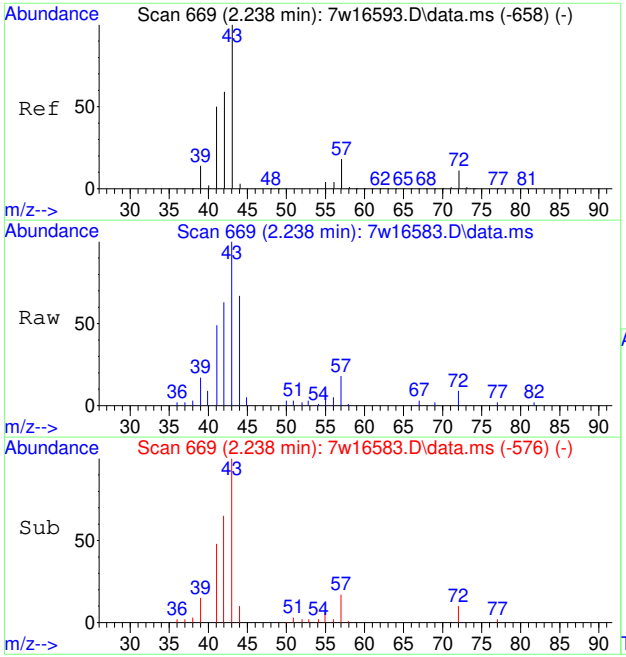


#23
ACETONE
Concen: 0.22 PPBV
RT: 2.074 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 1566

Ion	Ratio	Lower	Upper
58	100		
43	294.4	254.0	471.6

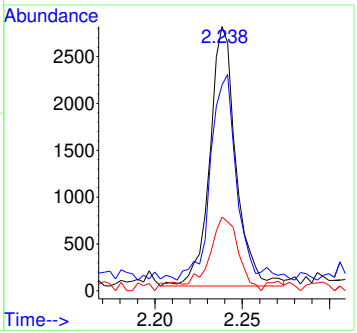


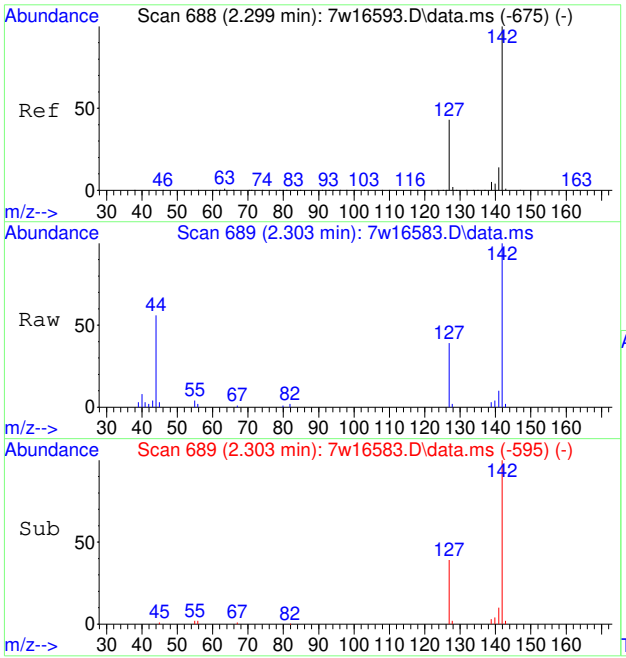


#24
PENTANE
Concen: 0.21 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 42 Resp: 2893

Ion	Ratio	Lower	Upper
42	100		
41	80.3	69.2	128.6
57	35.3	18.6	34.6#

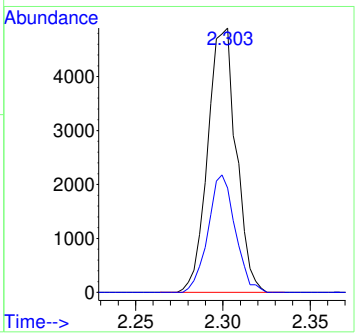


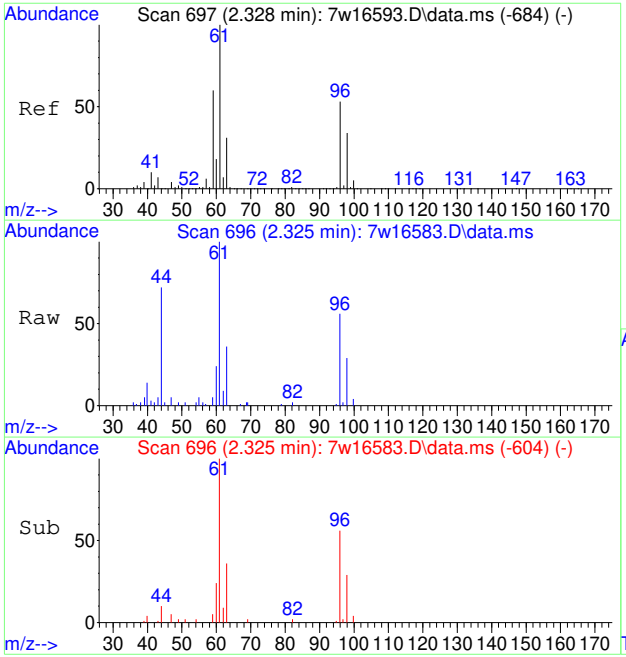


#25
IODOMETHANE
Concen: 0.19 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:142 Resp: 5560

Ion	Ratio	Lower	Upper
142	100		
127	42.5	32.1	59.7

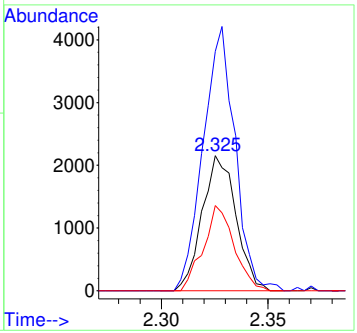


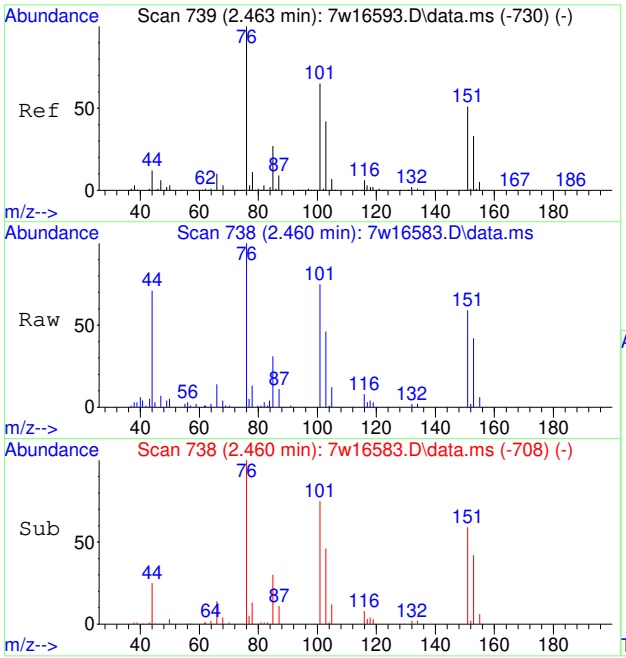


#26
1,1-DICHLOROETHYLENE
Concen: 0.20 PPBV
RT: 2.325 min Scan# 696
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2379

Ion	Ratio	Lower	Upper
96	100		
61	184.2	98.3	182.5#
63	57.3	33.2	61.7

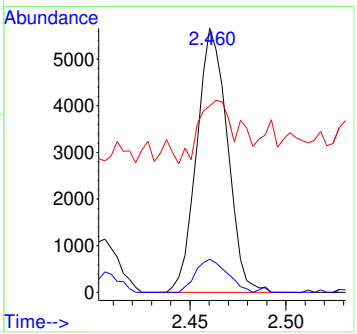


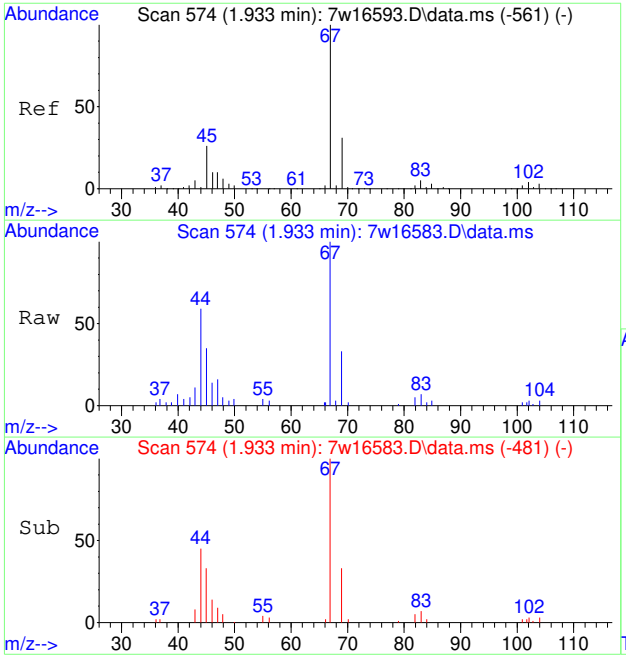


#27
CARBON DISULFIDE
Concen: 0.18 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 6298

Ion	Ratio	Lower	Upper
76	100		
78	13.5	8.3	15.3
44	32.0	13.0	24.1#

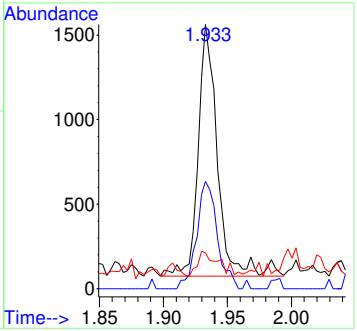


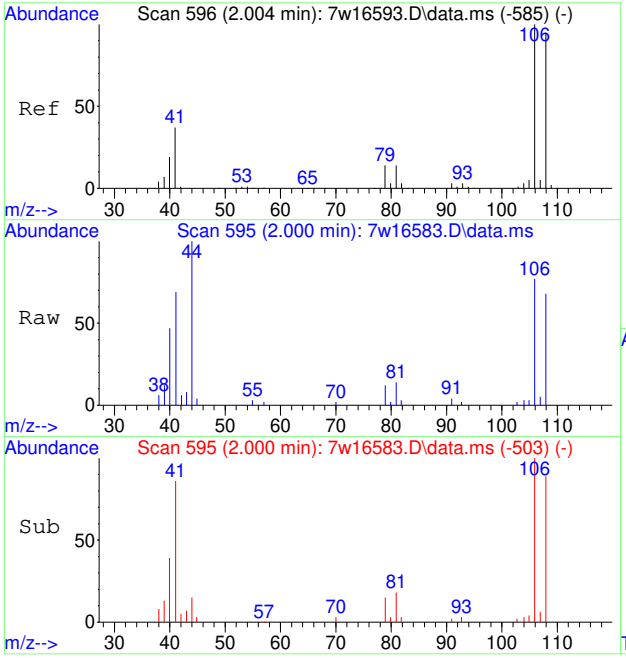


#28
ETHANOL
Concen: 0.23 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 1573

Ion	Ratio	Lower	Upper
45	100		
46	45.7	29.7	55.1
42	11.8	7.3	13.5

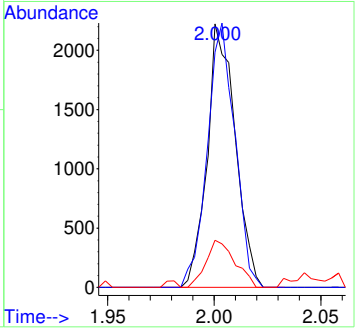


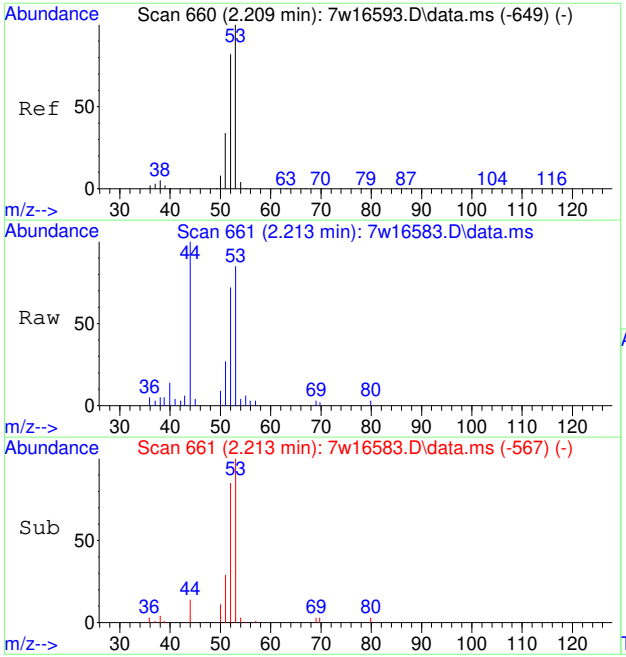


#29
BROMOETHENE
Concen: 0.18 PPBV
RT: 2.000 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:106 Resp: 2033

Ion	Ratio	Lower	Upper
106	100		
108	98.3	68.3	126.8
81	19.5	14.7	27.3

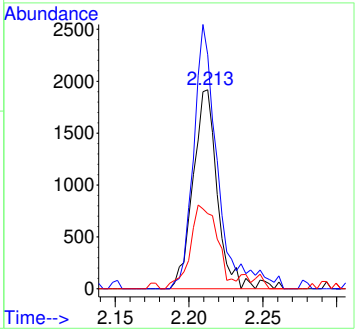


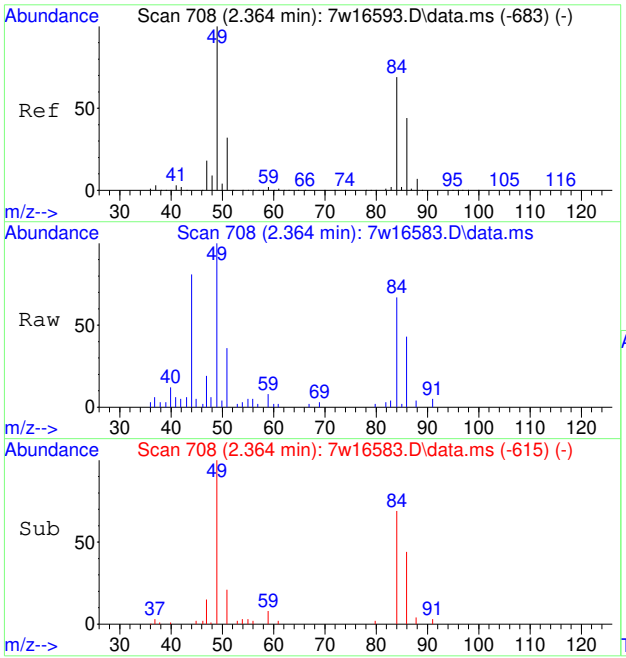


#30
ACRYLONITRILE
Concen: 0.22 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 2213

Ion	Ratio	Lower	Upper
52	100		
53	130.7	86.3	160.3
51	48.0	33.6	62.4

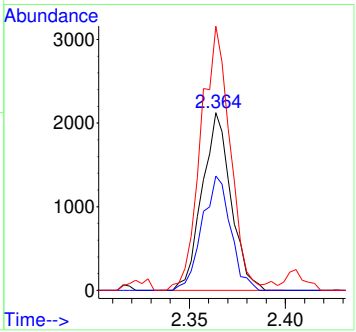


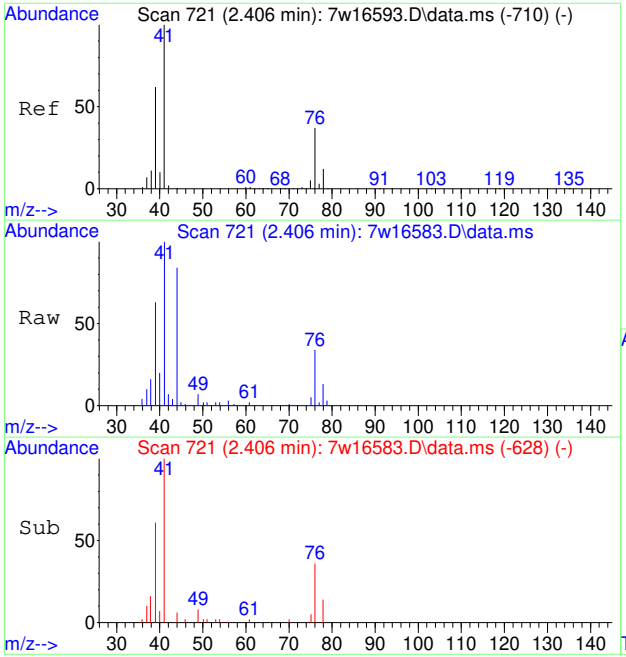


#31
METHYLENE CHLORIDE
Concen: 0.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 2222

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.9	83.5
49	150.6	79.7	148.1#

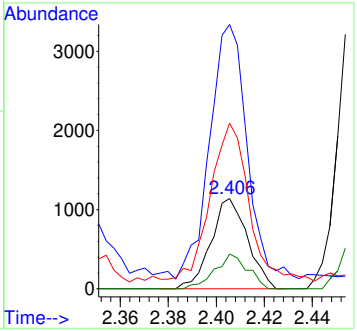


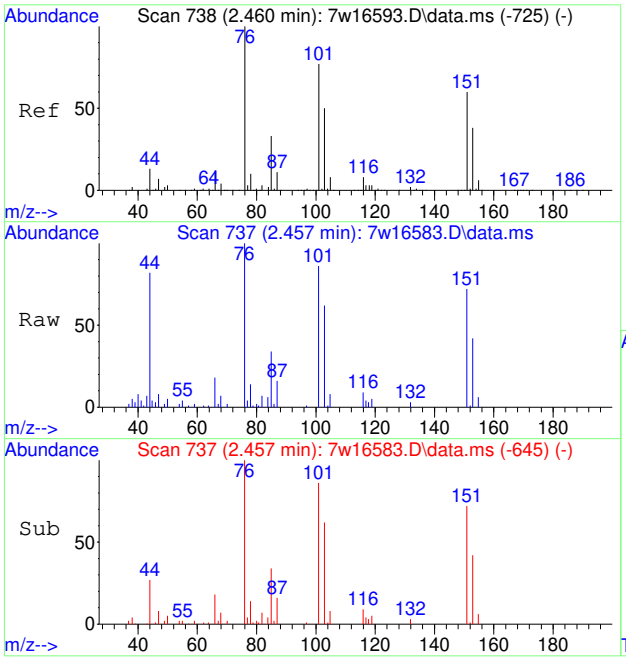


#32
3-CHLOROPROPENE
Concen: 0.19 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 1202

Ion	Ratio	Lower	Upper
76	100		
41	279.0	160.9	298.9
39	185.3	150.7	279.9
78	34.5	22.7	42.1

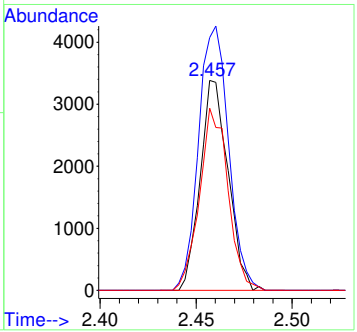


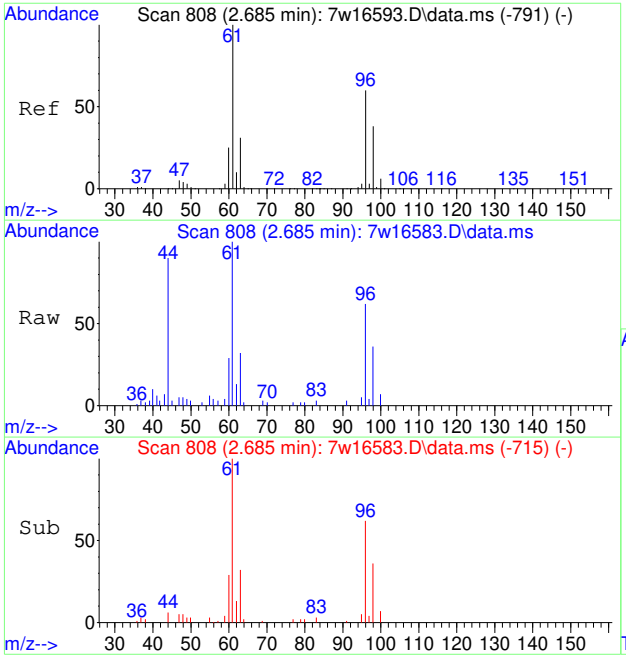


#33
FREON 113
Concen: 0.19 PPBV
RT: 2.457 min Scan# 737
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:151 Resp: 3430

Ion	Ratio	Lower	Upper
151	100		
101	135.4	81.1	150.7
103	88.3	51.4	95.4

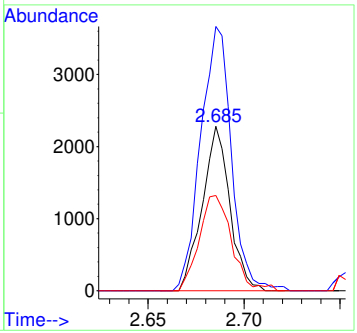


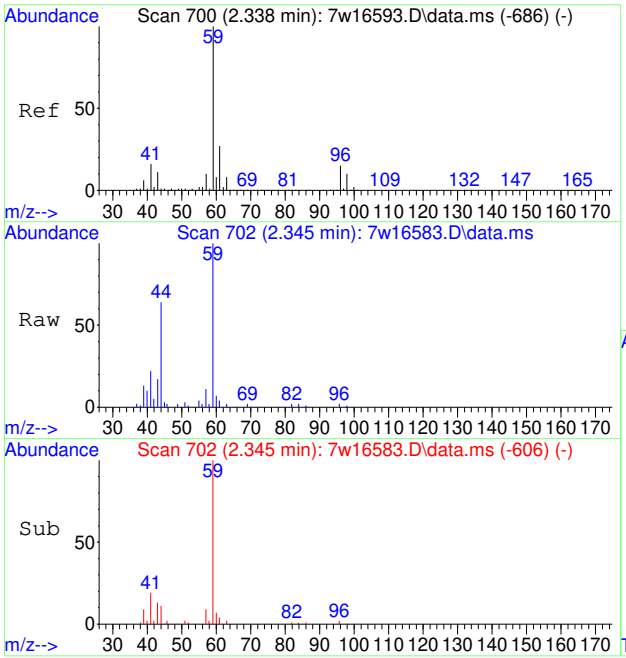


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.18 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2282

Ion	Ratio	Lower	Upper
96	100		
61	178.7	78.5	145.9#
98	68.1	46.5	86.3

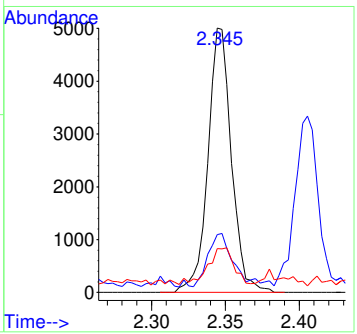


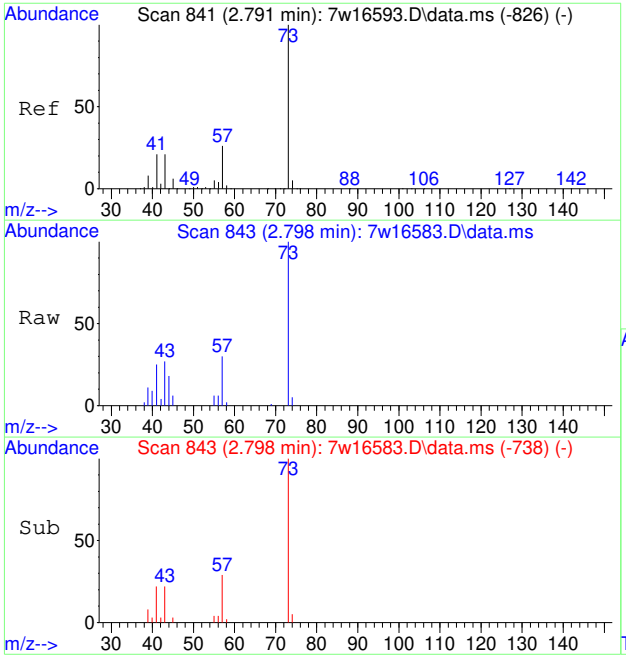


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.17 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 5515

Ion	Ratio	Lower	Upper
59	100		
41	22.6	15.3	28.5
43	15.4	12.3	22.9

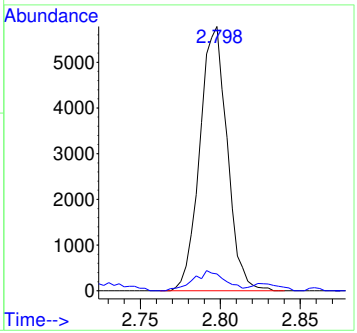


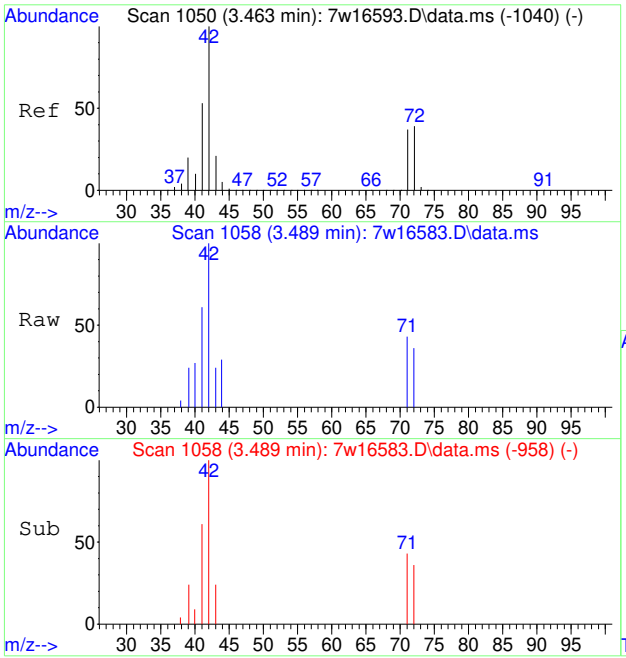


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.19 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 73 Resp: 6887

Ion	Ratio	Lower	Upper
73	100		
45	8.7	3.4	6.4#

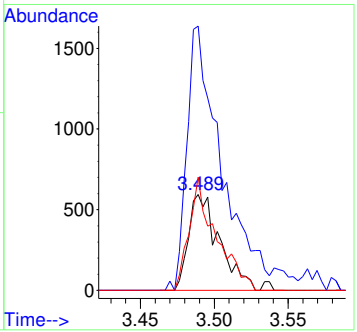


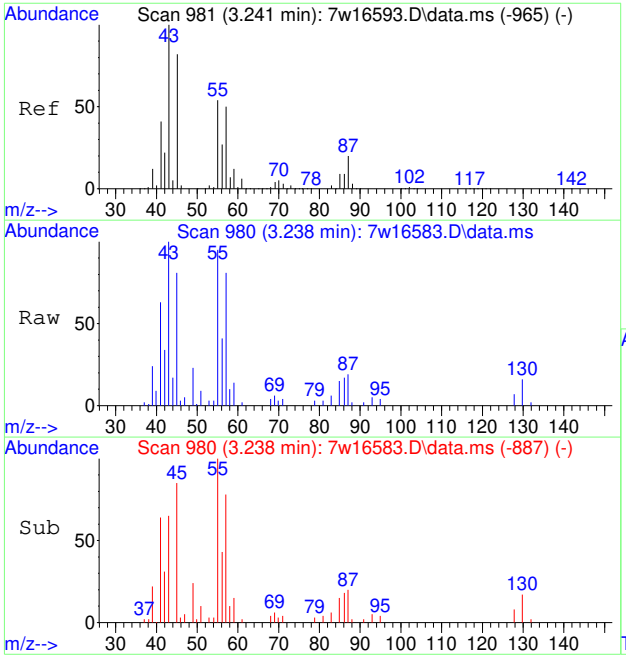


#37
TETRAHYDROFURAN
Concen: 0.14 PPBV
RT: 3.489 min Scan# 1058
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 887

Ion	Ratio	Lower	Upper
72	100		
42	327.1	153.0	284.2#
71	100.5	62.7	116.5

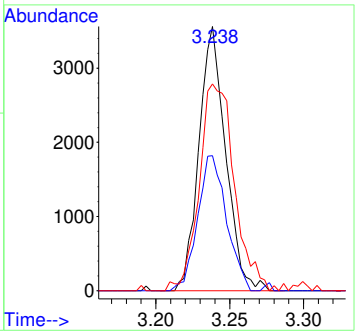


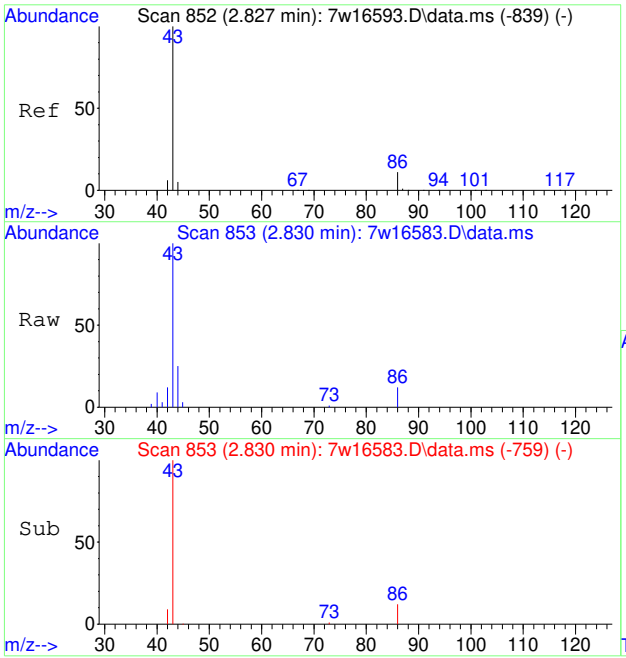


#38
HEXANE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 4468

Ion	Ratio	Lower	Upper
57	100		
56	56.0	37.3	69.3
41	104.9	86.7	161.1

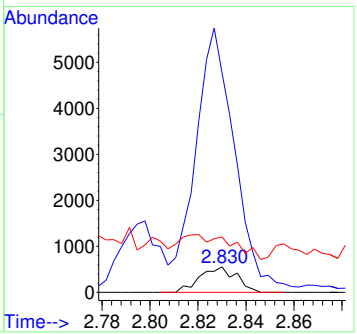


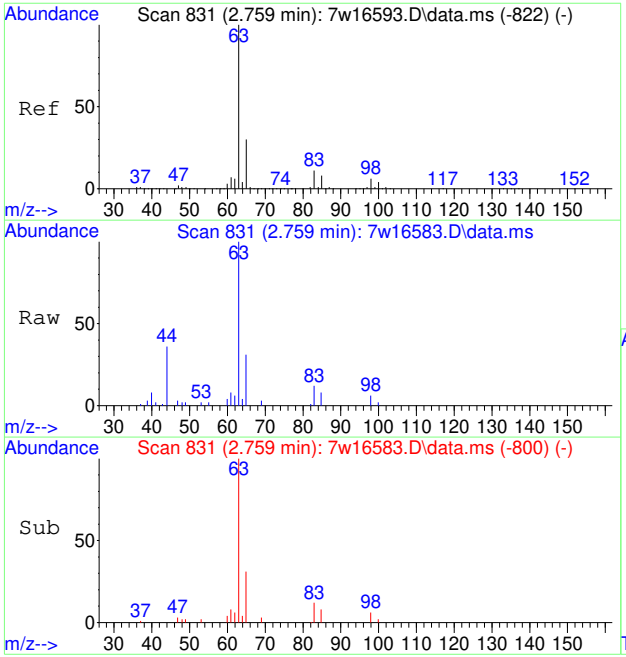


#39
VINYL ACETATE
Concen: 0.16 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 86 Resp: 581

Ion	Ratio	Lower	Upper
86	100		
43	1147.3	667.9	1240.3
44	110.5	32.7	60.7#

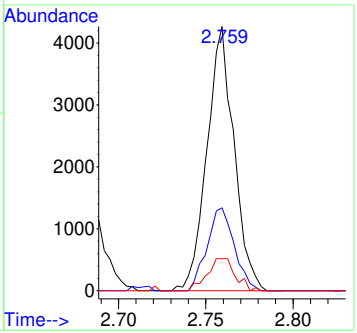


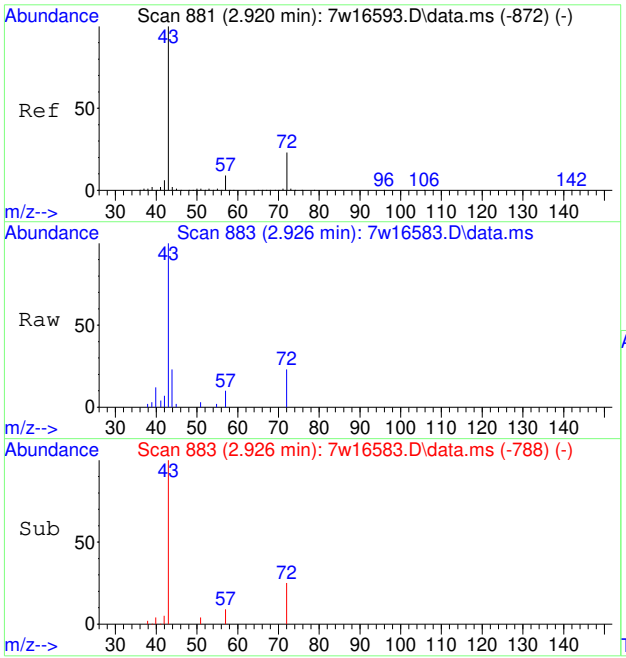


#40
1,1-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 4599

Ion	Ratio	Lower	Upper
63	100		
65	31.7	21.8	40.6
83	12.7	10.6	19.6

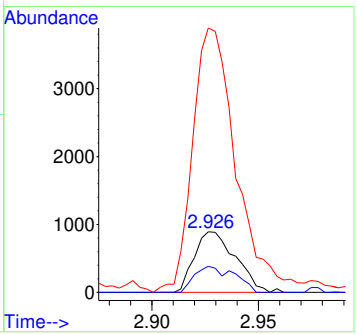


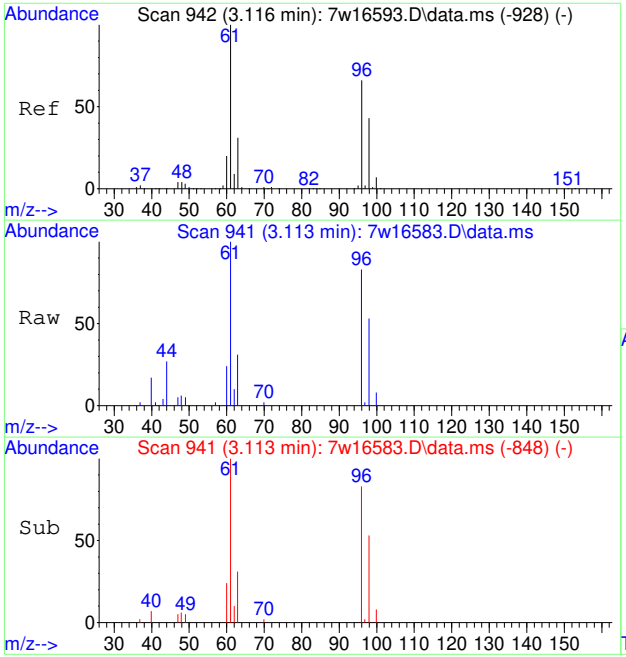


#41
METHYL ETHYL KETONE
Concen: 0.18 PPBV
RT: 2.926 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 1205

Ion	Ratio	Lower	Upper
72	100		
57	41.7	20.3	37.7#
43	447.8	282.8	525.2

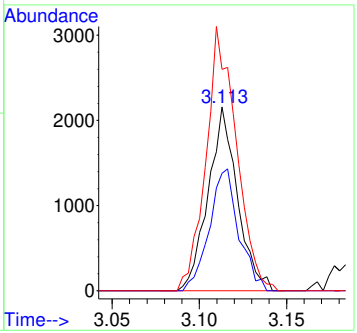


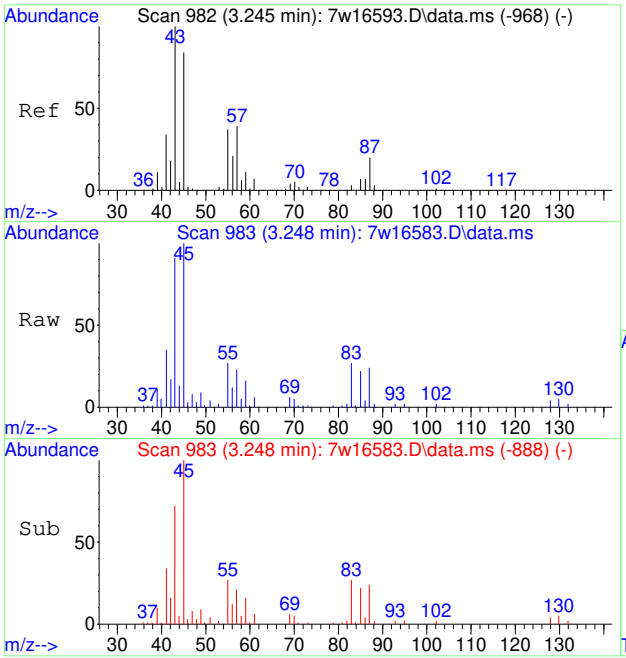


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.19 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2527

Ion	Ratio	Lower	Upper
96	100		
98	66.4	46.8	86.8
61	148.8	78.3	145.5#

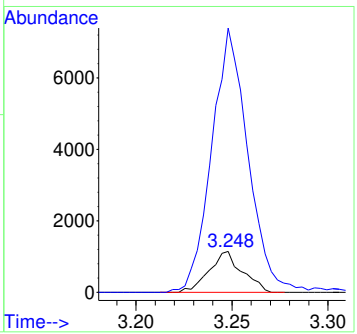


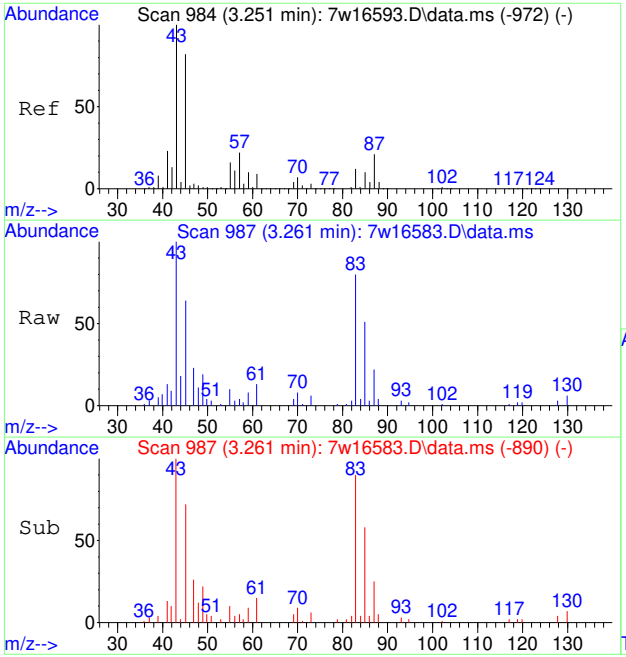


#43
DIISOPROPYL ETHER
Concen: 0.20 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 1371

Ion	Ratio	Lower	Upper
59	100		
45	718.4	532.1	988.1

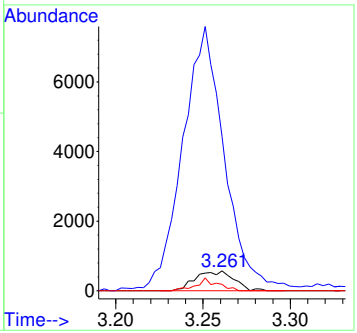


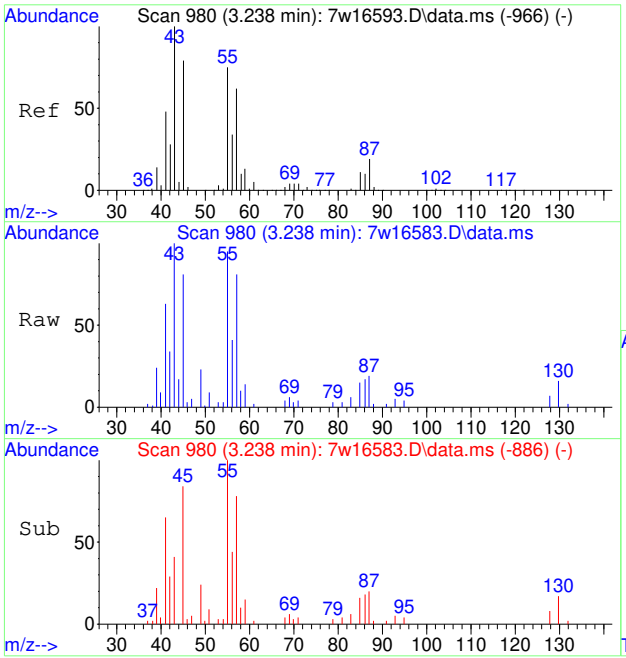


#44
ETHYL ACETATE
Concen: 0.18 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 61 Resp: 871

Ion	Ratio	Lower	Upper
61	100		
43	1463.9	1127.5	2093.9
88	36.2	36.2	67.2#

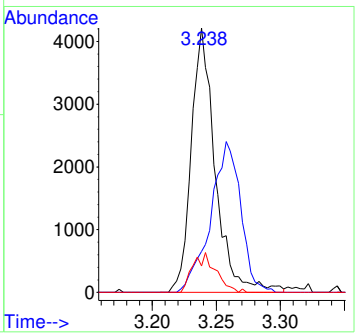


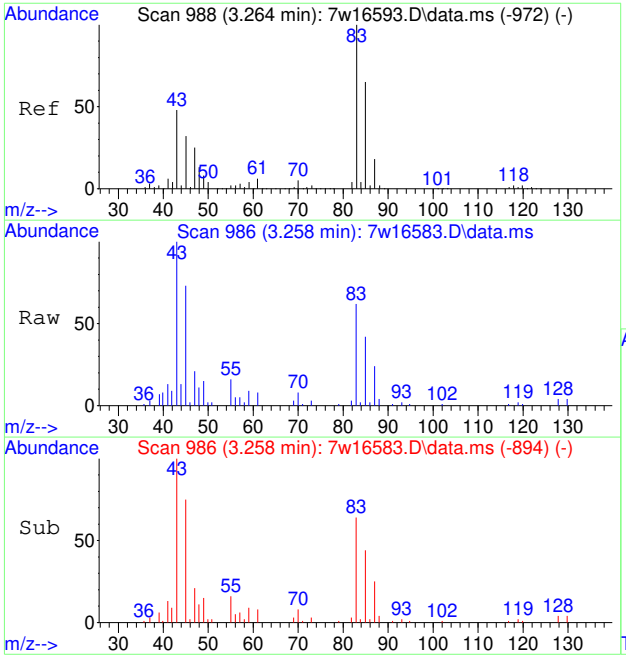


#45
METHYL ACRYLATE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 5488

Ion	Ratio	Lower	Upper
55	100		
85	71.8	0.0	0.0#
58	14.5	9.2	17.0

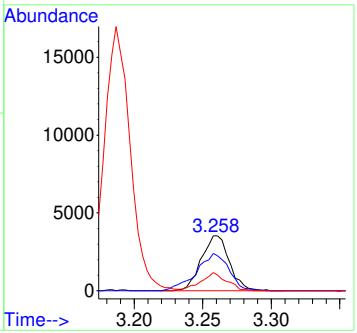


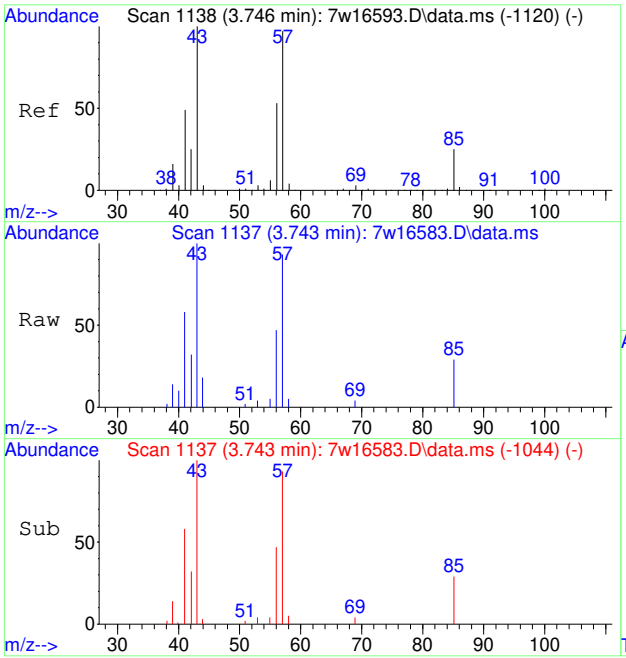


#46
CHLOROFORM
Concen: 0.19 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5027

Ion	Ratio	Lower	Upper
83	100		
85	78.4	54.6	101.4
47	30.5	17.9	33.3

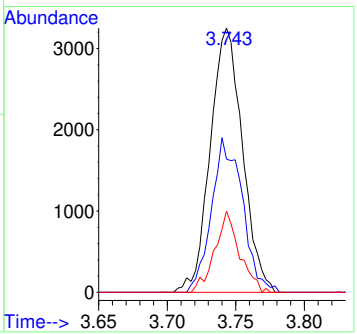


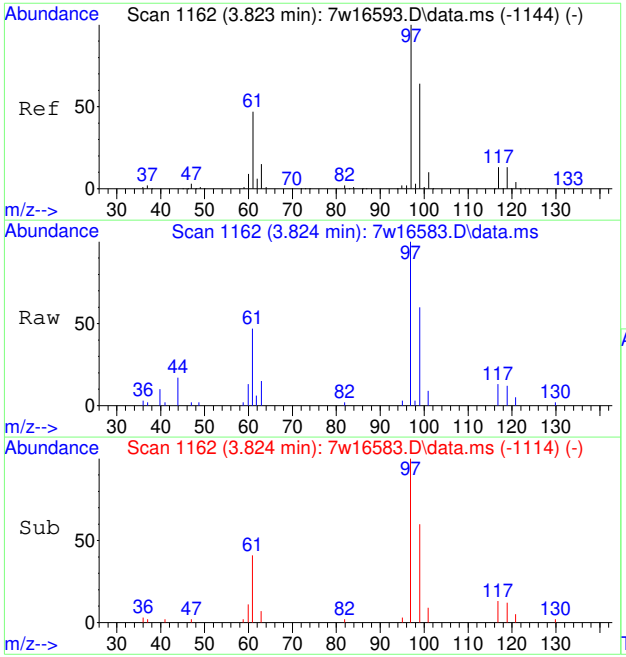


#47
2,4-DIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 5307

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	23.6	24.1	44.7#

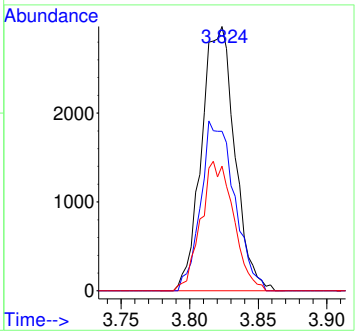


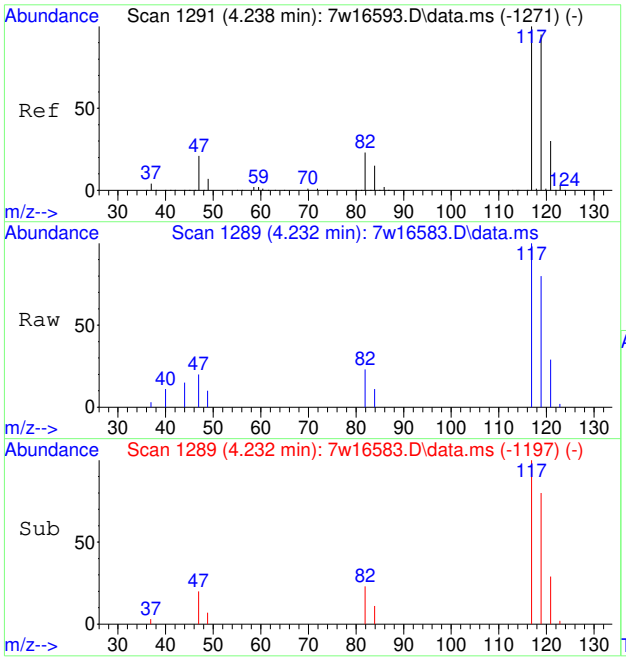


#48
1,1,1-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 97 Resp: 5006

Ion	Ratio	Lower	Upper
97	100		
99	64.9	44.9	83.5
61	48.3	28.6	53.0

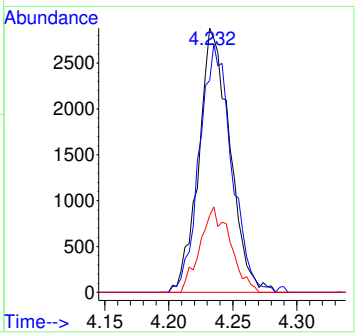


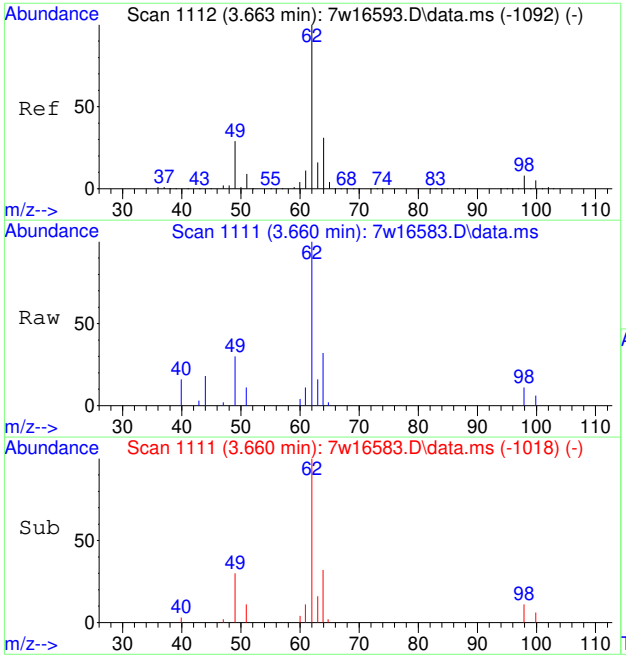


#49
CARBON TETRACHLORIDE
Concen: 0.16 PPBV
RT: 4.232 min Scan# 1289
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 4884

Ion	Ratio	Lower	Upper
117	100		
119	97.2	68.8	127.8
121	31.6	22.2	41.2

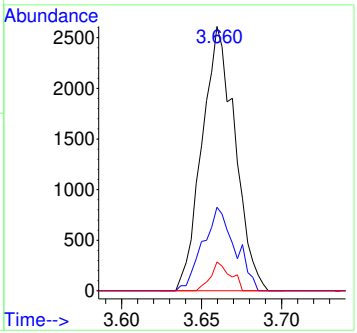


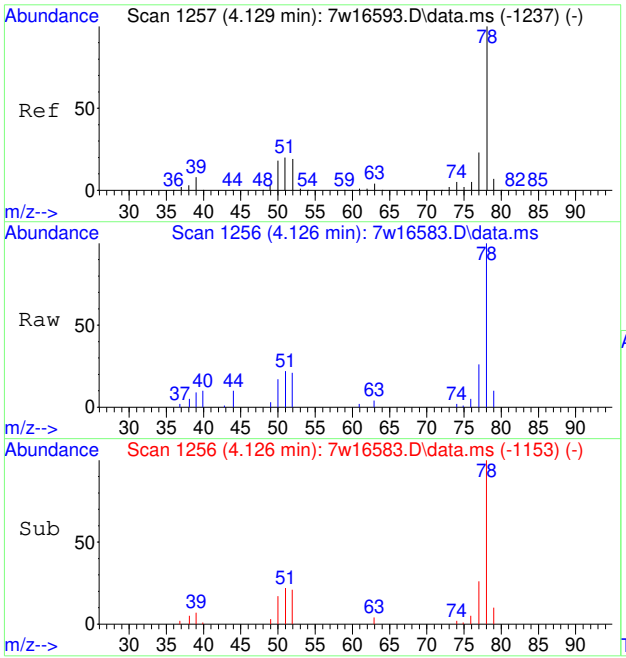


#50
1,2-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.660 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 3746

Ion	Ratio	Lower	Upper
62	100		
64	30.7	22.5	41.7
98	6.6	6.8	12.6#

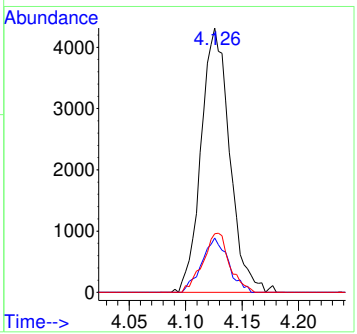


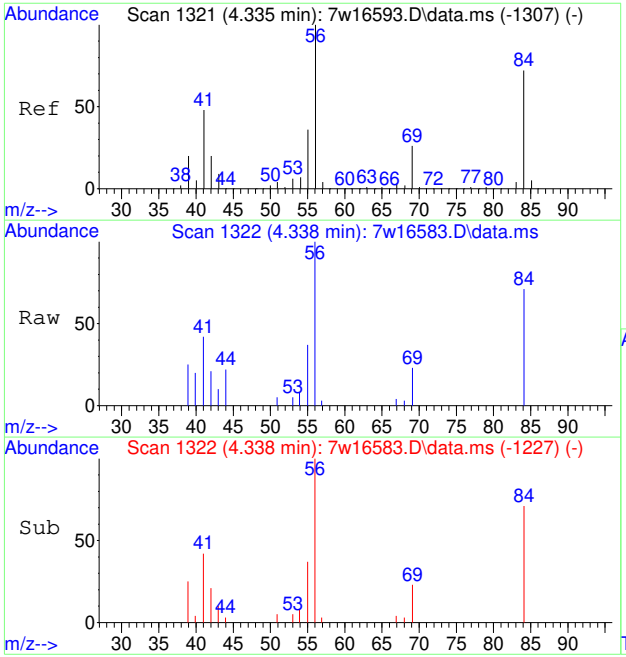


#51
BENZENE
Concen: 0.19 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 78 Resp: 7569

Ion	Ratio	Lower	Upper
78	100		
52	19.2	0.0	44.6
51	20.8	0.0	47.3

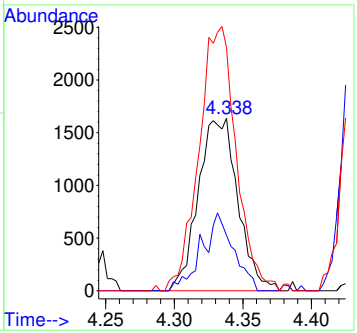


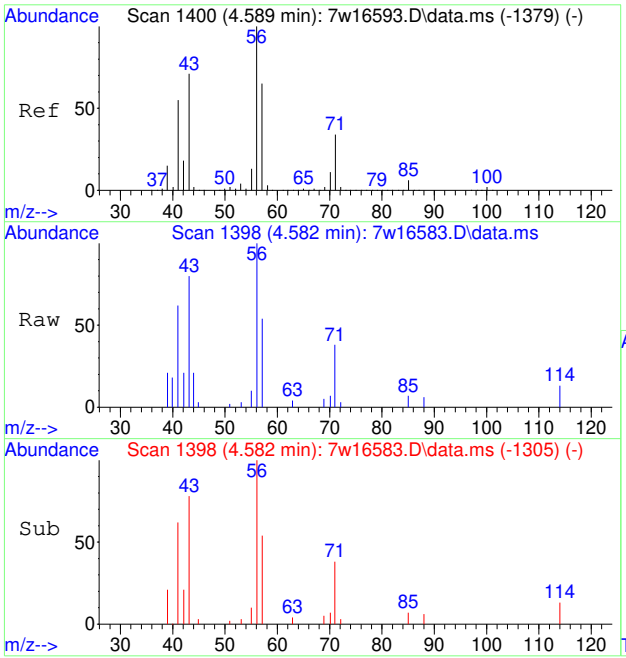


#53
CYCLOHEXANE
Concen: 0.18 PPBV
RT: 4.338 min Scan# 1322
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 3276

Ion	Ratio	Lower	Upper
84	100		
69	36.2	22.3	41.5
56	145.6	70.2	130.4#

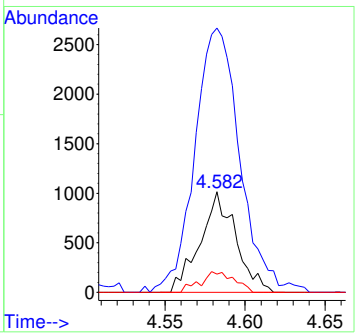


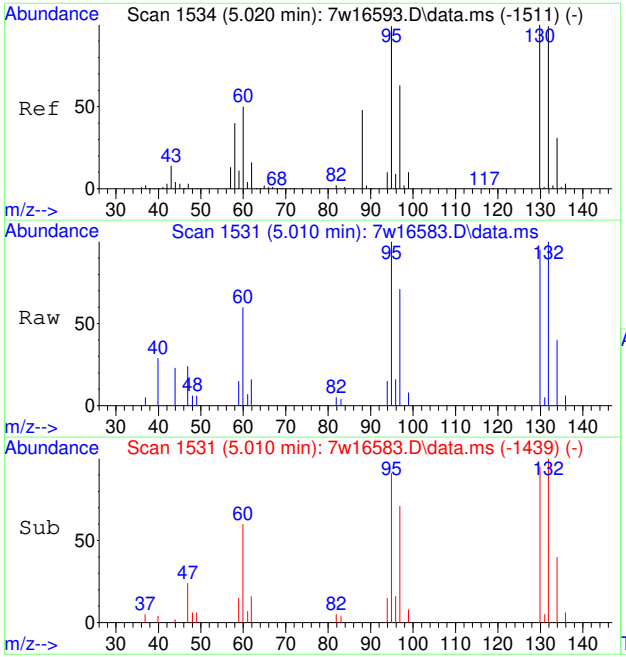


#54
2,3-DIMETHYLPENTANE
Concen: 0.17 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 71 Resp: 1571

Ion	Ratio	Lower	Upper
71	100		
56	333.0	171.4	318.4#
85	19.6	12.6	23.4

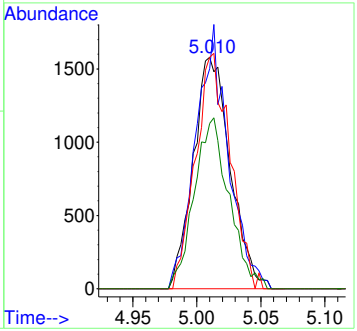


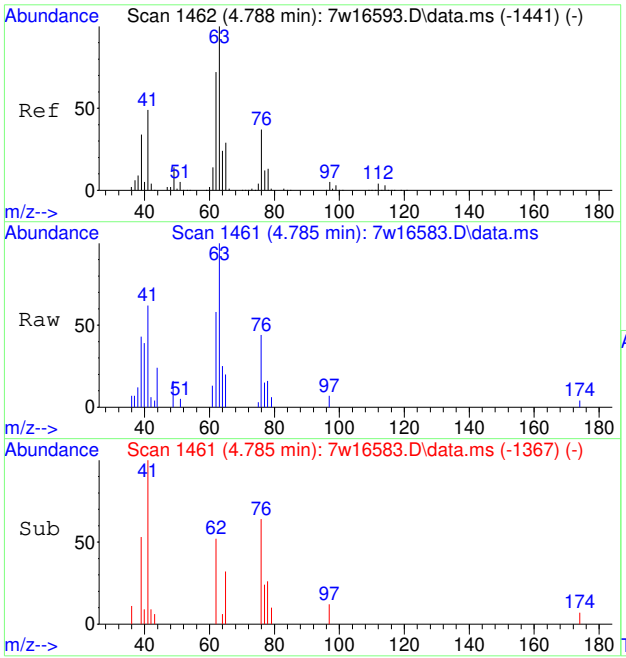


#55
TRICHLOROETHENE
Concen: 0.17 PPBV
RT: 5.010 min Scan# 1531
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 95 Resp: 3186

Ion	Ratio	Lower	Upper
95	100		
130	100.2	85.9	159.5
132	95.3	79.4	147.4
97	69.5	45.0	83.6

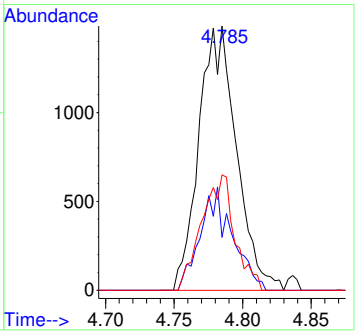


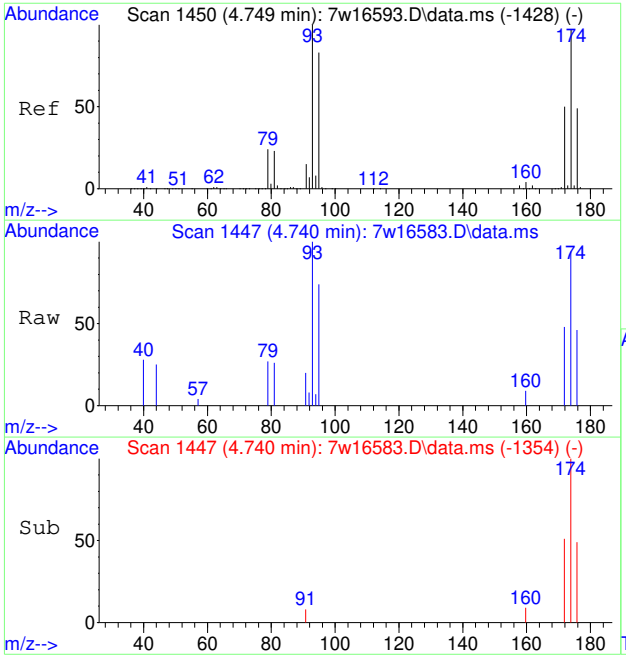


#56
1,2-DICHLOROPROPANE
Concen: 0.17 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 2832

Ion	Ratio	Lower	Upper
63	100		
65	33.3	22.6	42.0
76	38.5	31.8	59.0

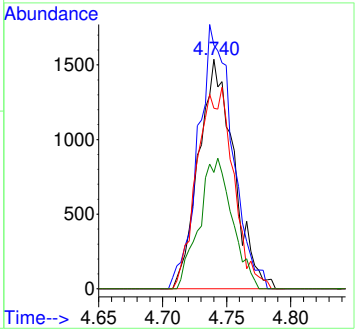


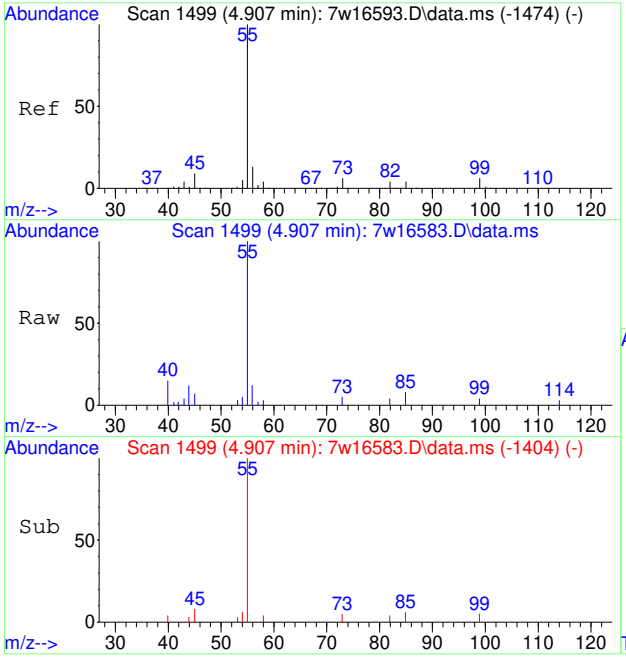


#57
DIBROMOMETHANE
Concen: 0.19 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:174 Resp: 2923

Ion	Ratio	Lower	Upper
174	100		
93	112.0	67.3	125.1
95	91.2	56.8	105.6
172	53.5	36.3	67.5

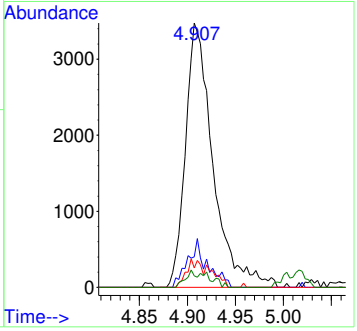


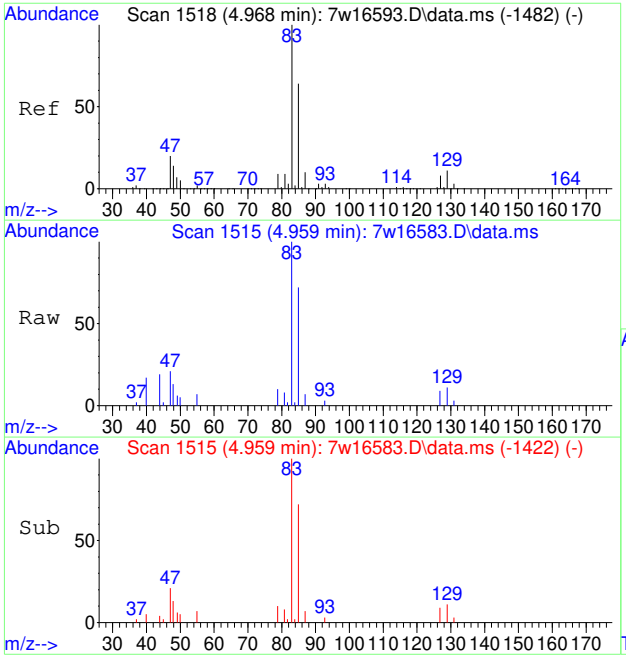


#58
ETHYL ACRYLATE
Concen: 0.18 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 6937

Ion	Ratio	Lower	Upper
55	100		
56	13.2	7.9	14.7
45	9.0	6.6	12.2
99	5.3	6.2	11.6#

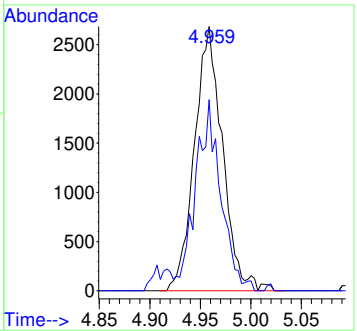


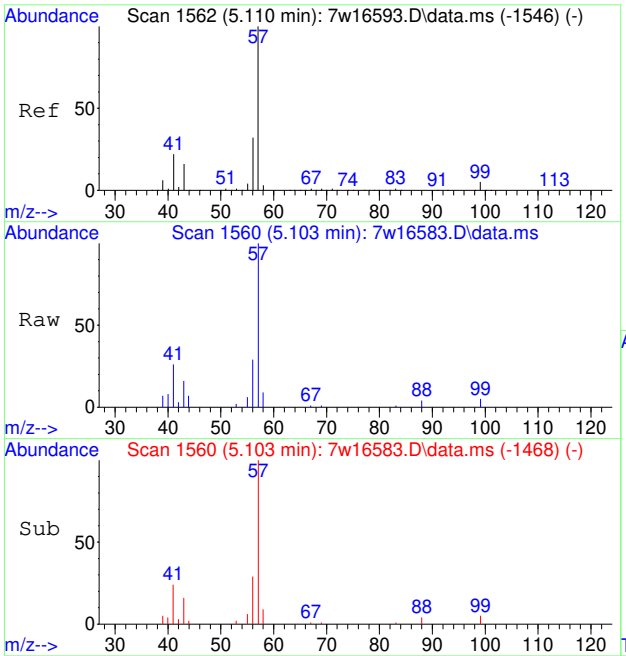


#59
BROMODICHLOROMETHANE
Concen: 0.16 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5187

Ion	Ratio	Lower	Upper
83	100		
85	70.2	44.9	83.5

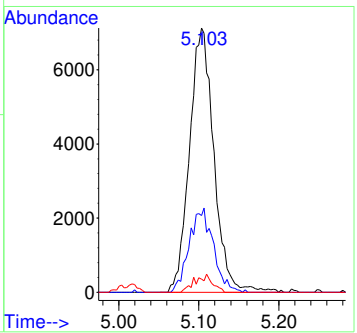


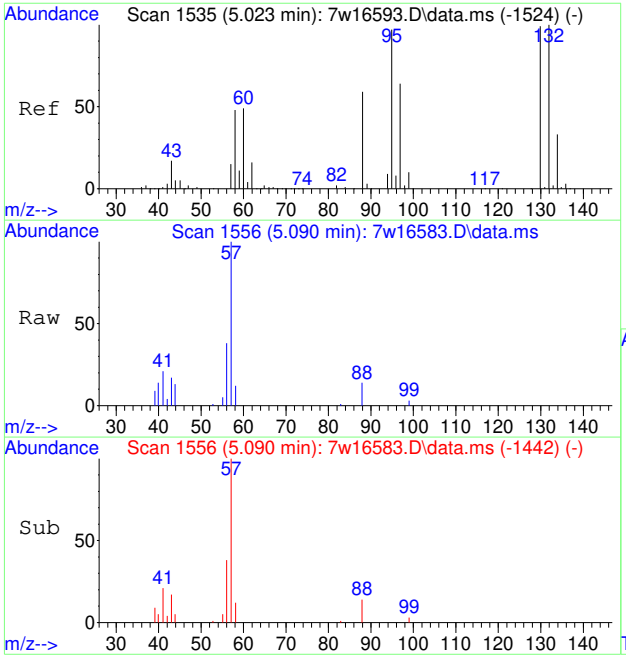


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 15119

Ion	Ratio	Lower	Upper
57	100		
56	31.5	24.4	45.2
99	4.9	5.2	9.6#

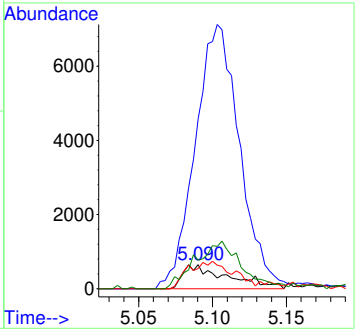


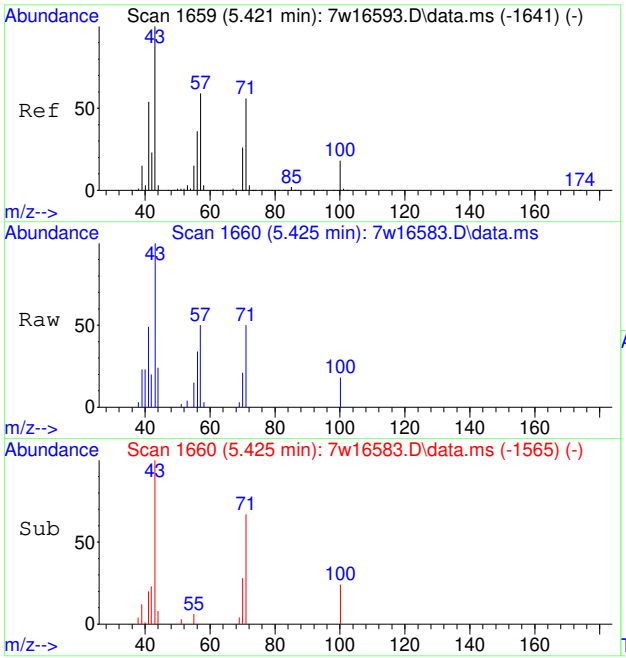


#61
1,4-DIOXANE
Concen: 0.15 PPBV
RT: 5.090 min Scan# 1556
Delta R.T. 0.068 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 88 Resp: 1375

Ion	Ratio	Lower	Upper
88	100		
57	1099.6	13.1	24.3#
58	117.7	39.1	72.5#
43	219.3	18.3	33.9#

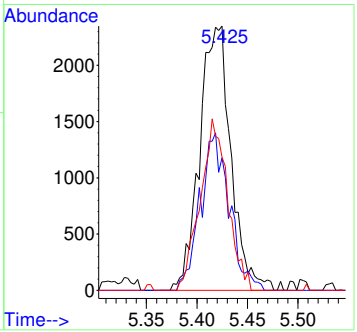


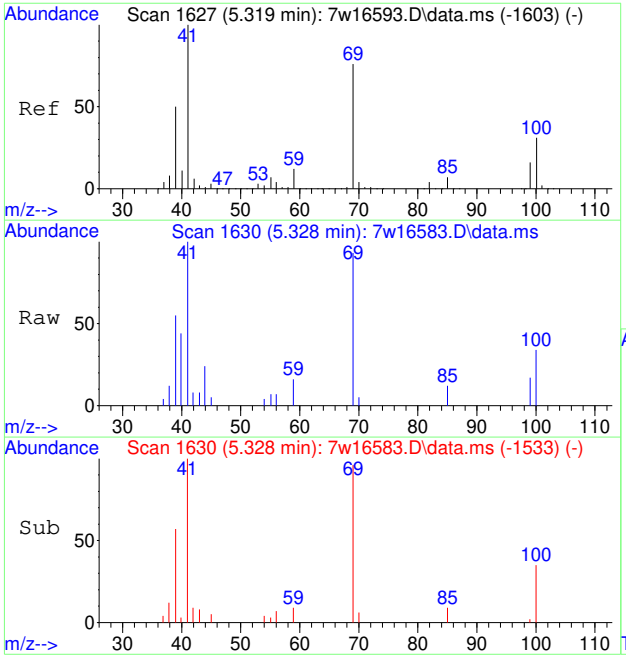


#62
HEPTANE
Concen: 0.19 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 5077

Ion	Ratio	Lower	Upper
43	100		
71	55.1	45.0	83.6
57	56.5	37.2	69.0

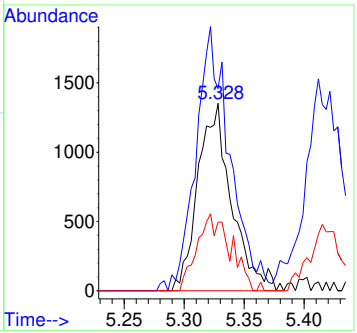


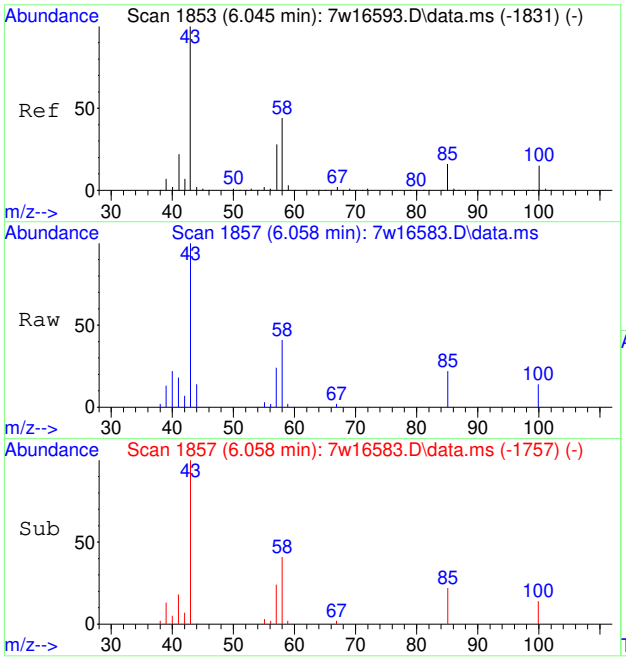


#63
METHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 5.328 min Scan# 1630
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 2638

Ion	Ratio	Lower	Upper
69	100		
41	142.4	84.3	156.5
100	41.0	30.8	57.2

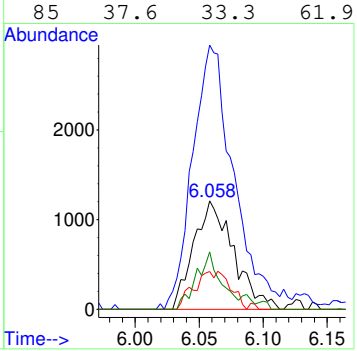


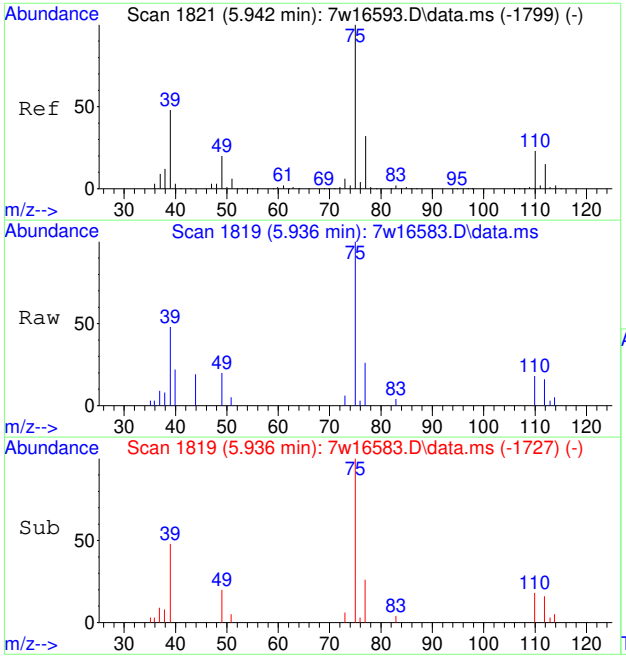


#64
METHYL ISOBUTYL KETONE
Concen: 0.17 PPBV
RT: 6.058 min Scan# 1857
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 2634

Ion	Ratio	Lower	Upper
58	100		
43	259.0	193.8	360.0
100	32.5	32.8	60.8#
85	37.6	33.3	61.9

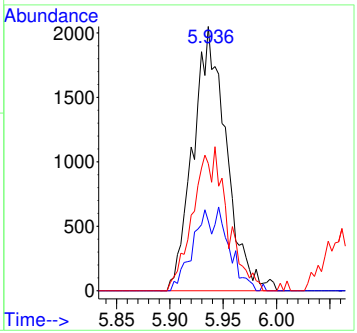


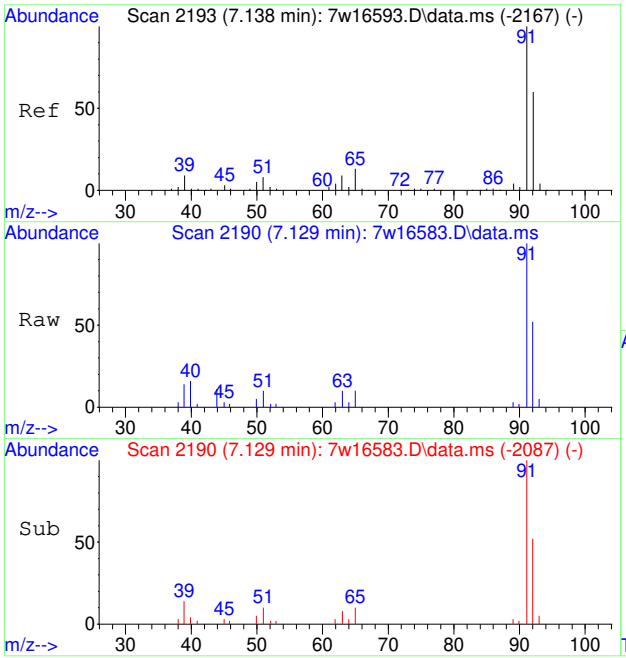


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.17 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 4430

Ion	Ratio	Lower	Upper
75	100		
77	32.6	22.0	40.8
39	55.6	38.5	71.5

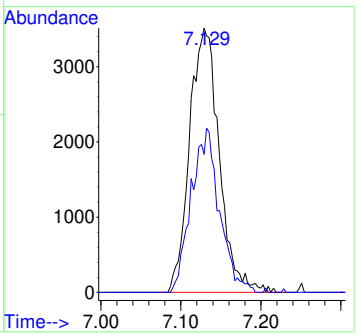


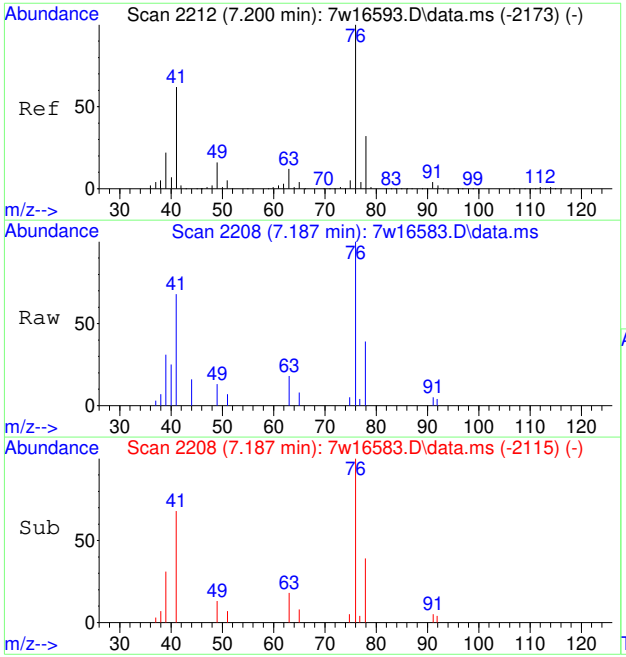


#66
TOLUENE
Concen: 0.19 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9065

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

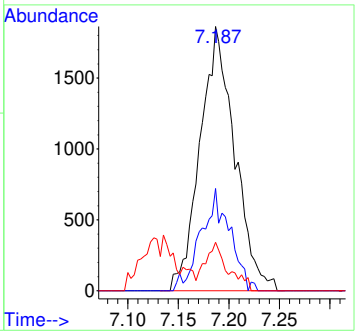


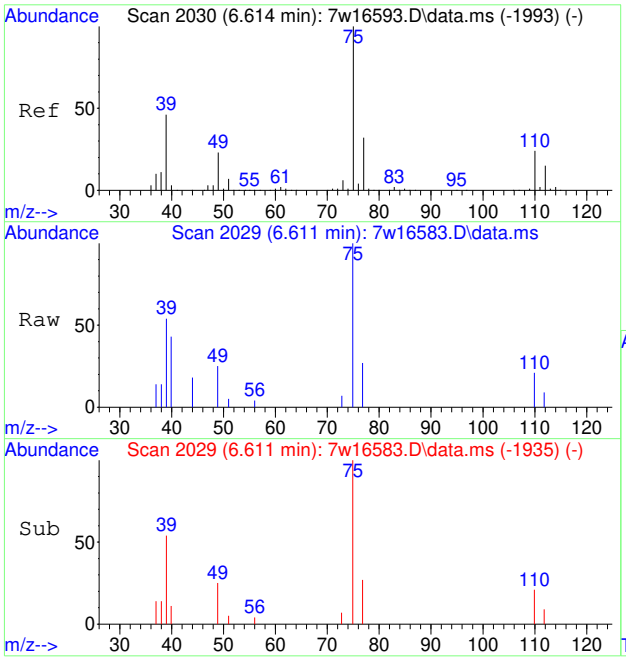


#67
1,3-DICHLOROPROPANE
Concen: 0.18 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 4438

Ion	Ratio	Lower	Upper
76	100		
78	32.2	22.1	41.1
63	12.5	8.0	14.8

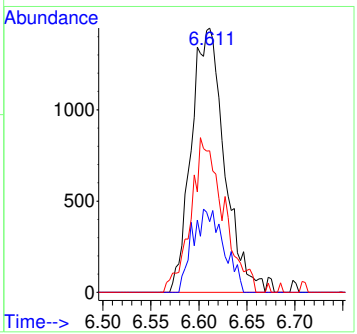


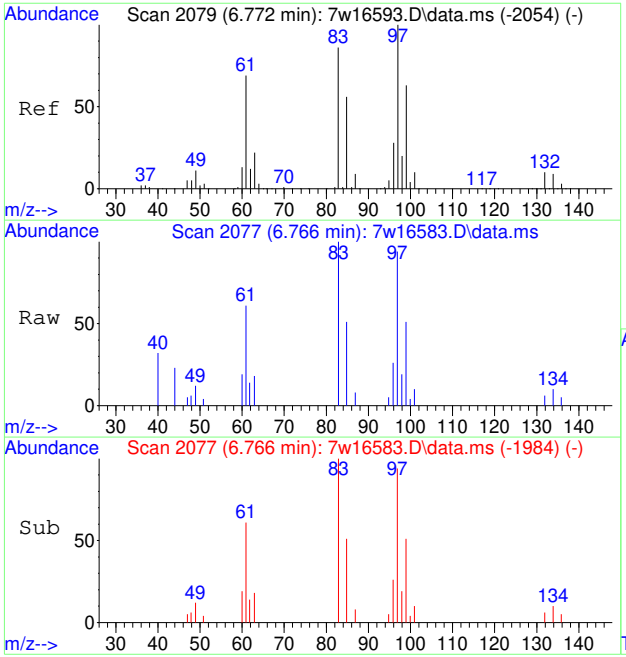


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.14 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 3506

Ion	Ratio	Lower	Upper
75	100		
77	29.5	22.5	41.7
39	57.2	37.2	69.0

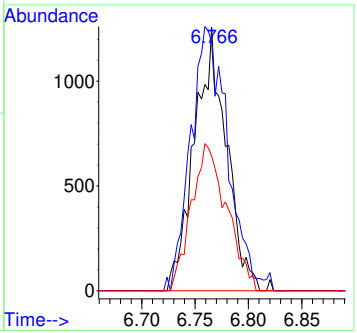


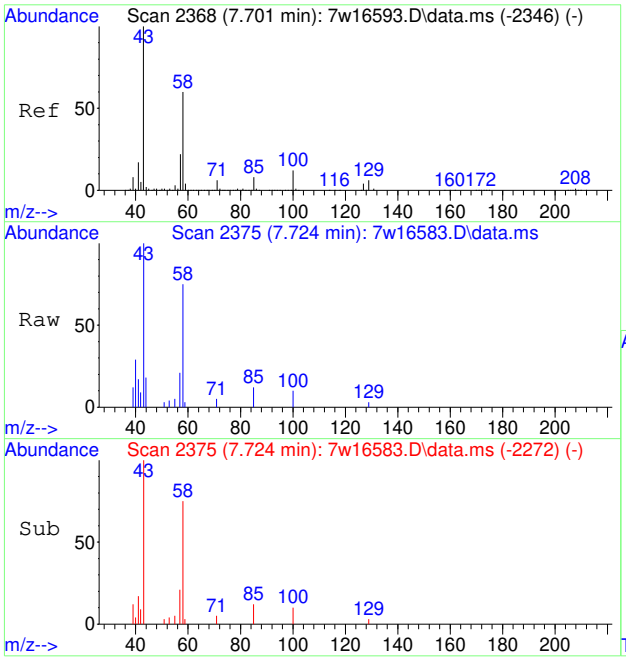


#69
1,1,2-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
97	116.1	86.7	160.9
85	61.6	45.5	84.5

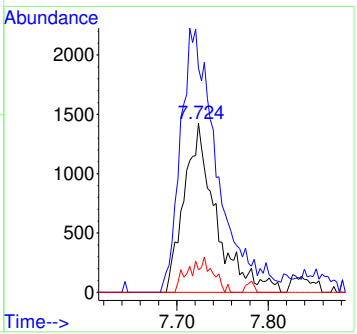


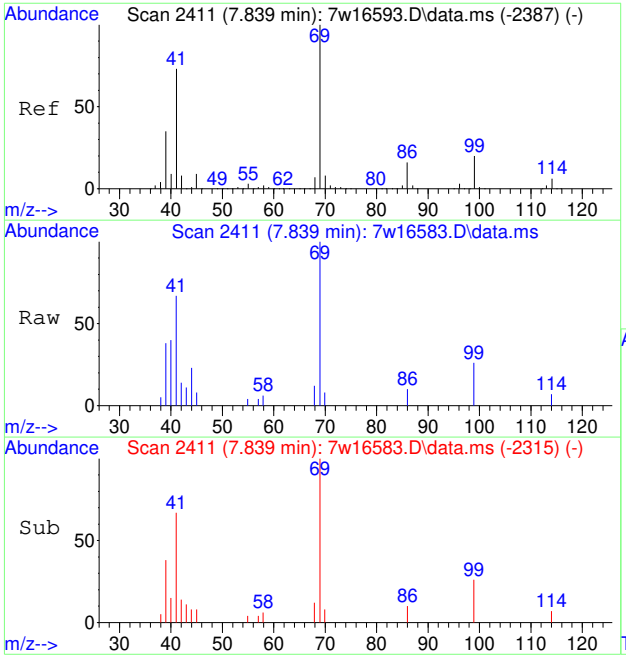


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.724 min Scan# 2375
Delta R.T. 0.032 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 3463

Ion	Ratio	Lower	Upper
58	100		
43	179.8	141.7	263.3
100	15.7	18.9	35.1#

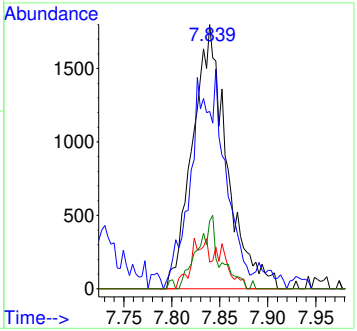


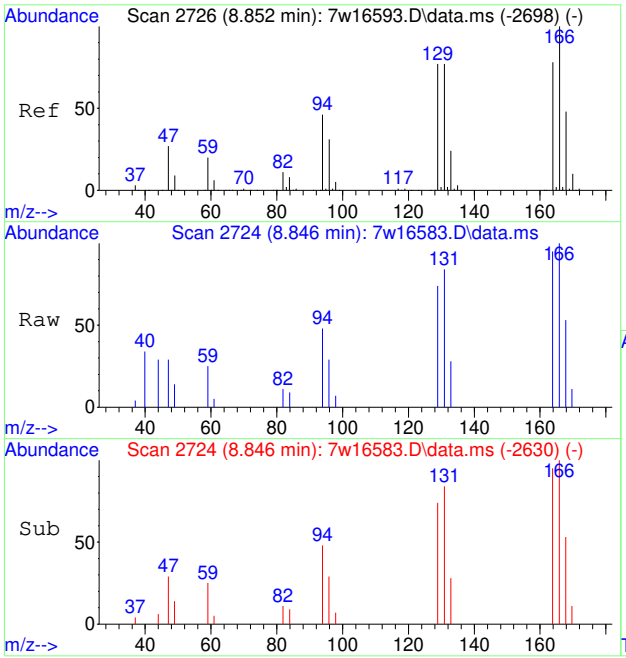


#71
ETHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 4472

Ion	Ratio	Lower	Upper
69	100		
41	82.5	49.3	91.6
86	7.3	11.6	21.6#
99	18.8	13.4	24.8

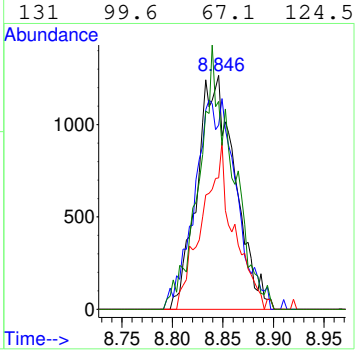


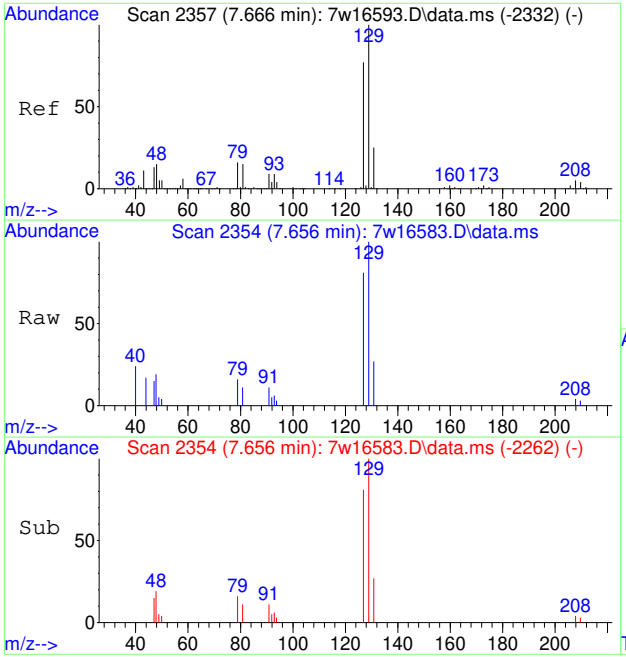


#72
TETRACHLOROETHENE
Concen: 0.19 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:164 Resp: 3315

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.7	129.5
168	59.1	43.4	80.6
131	99.6	67.1	124.5

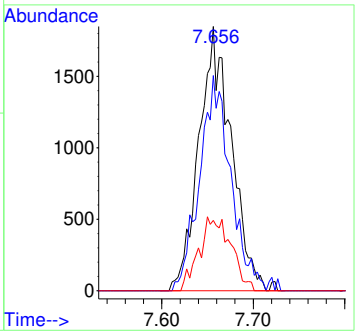


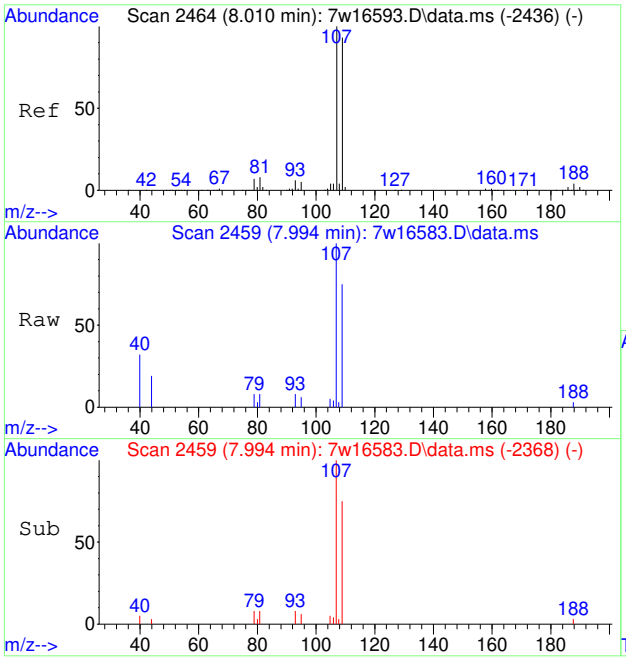


#73
DIBROMOCHLOROMETHANE
Concen: 0.15 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:129 Resp: 4563

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	27.4	16.9	31.3

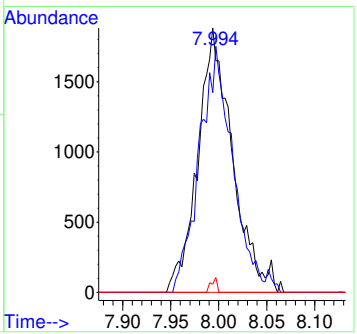


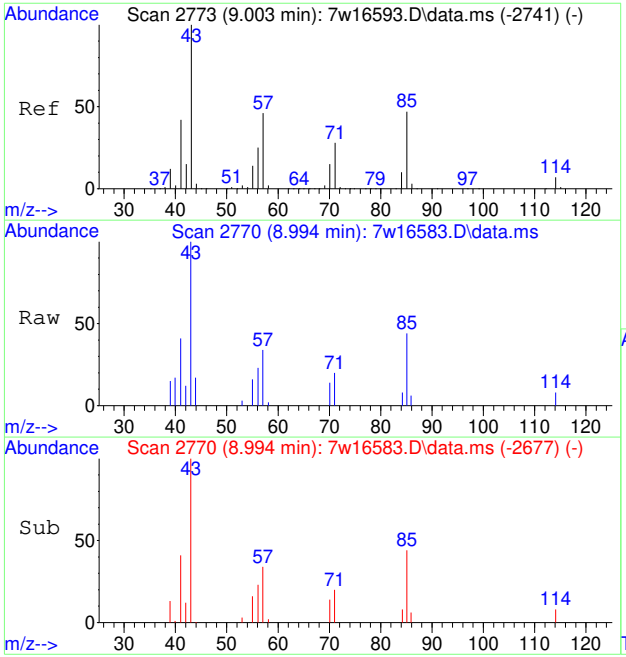


#74
1,2-DIBROMOETHANE
Concen: 0.19 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:107 Resp: 4734

Ion	Ratio	Lower	Upper
107	100		
109	91.0	65.7	122.1
188	0.0	2.4	4.4#

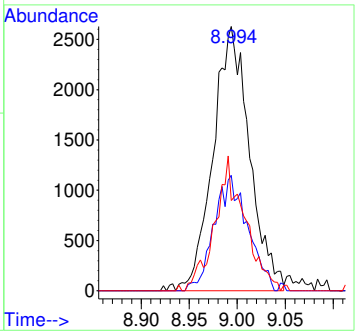


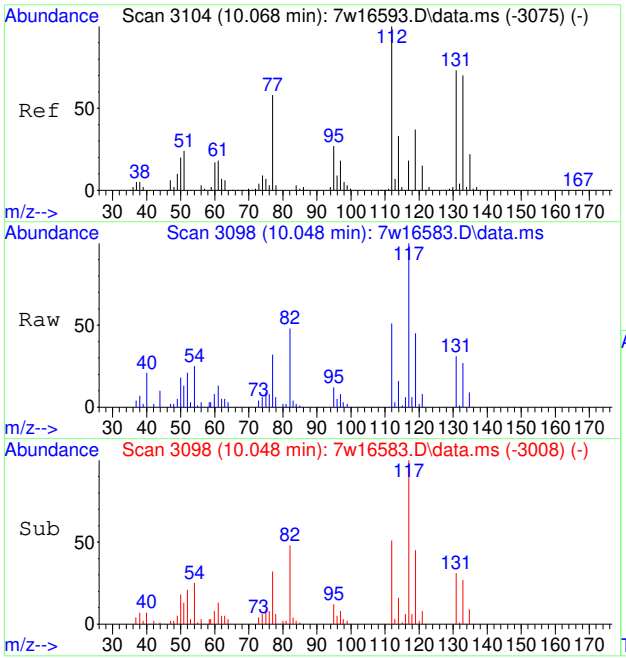


#75
OCTANE
Concen: 0.19 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 6956

Ion	Ratio	Lower	Upper
43	100		
85	40.7	36.5	67.9
57	41.8	27.6	51.2

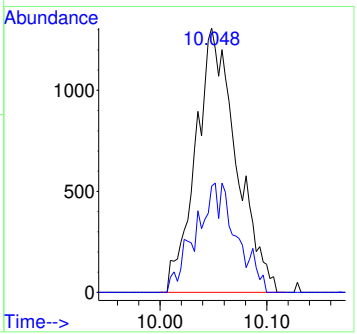


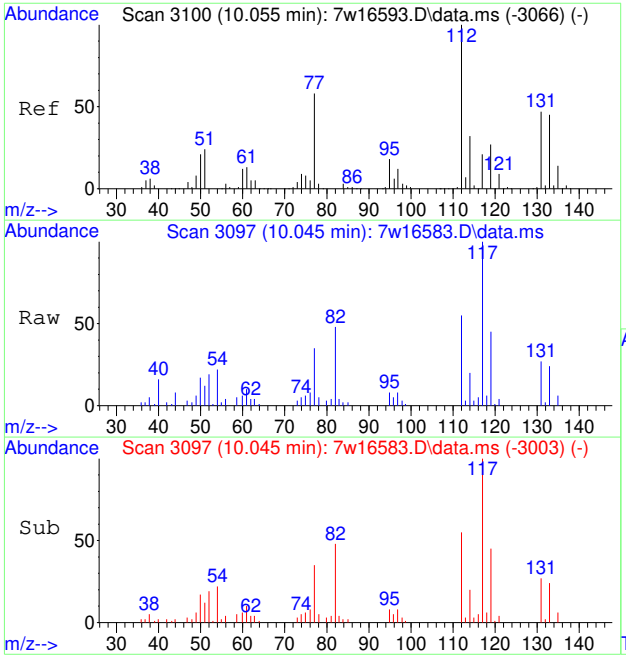


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.16 PPBV
RT: 10.048 min Scan# 3098
Delta R.T. -0.009 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:131 Resp: 3463

Ion	Ratio	Lower	Upper
131	100		
95	41.4	23.7	43.9

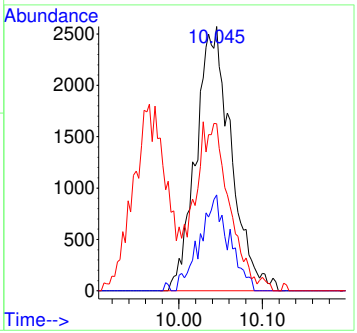


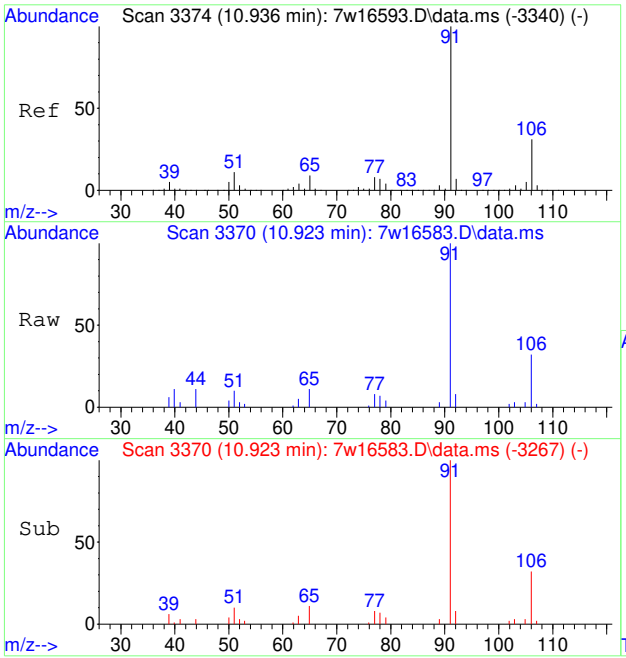


#78
CHLOROBENZENE
Concen: 0.19 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:112 Resp: 7506

Ion	Ratio	Lower	Upper
112	100		
114	30.5	22.9	42.5
77	62.6	34.4	63.8

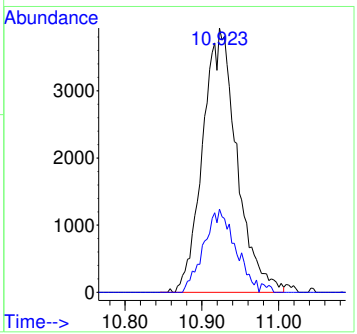


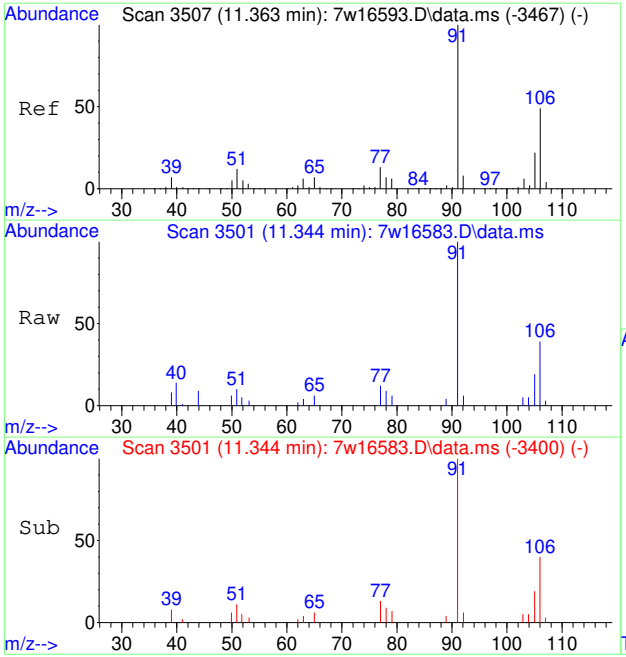


#79
ETHYLBENZENE
Concen: 0.19 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 12148

Ion	Ratio	Lower	Upper
91	100		
106	29.0	2.8	62.8

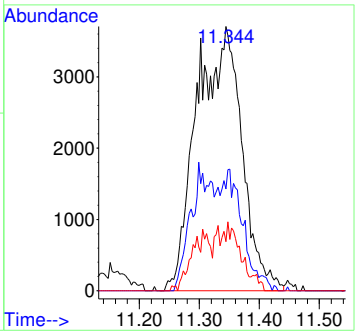


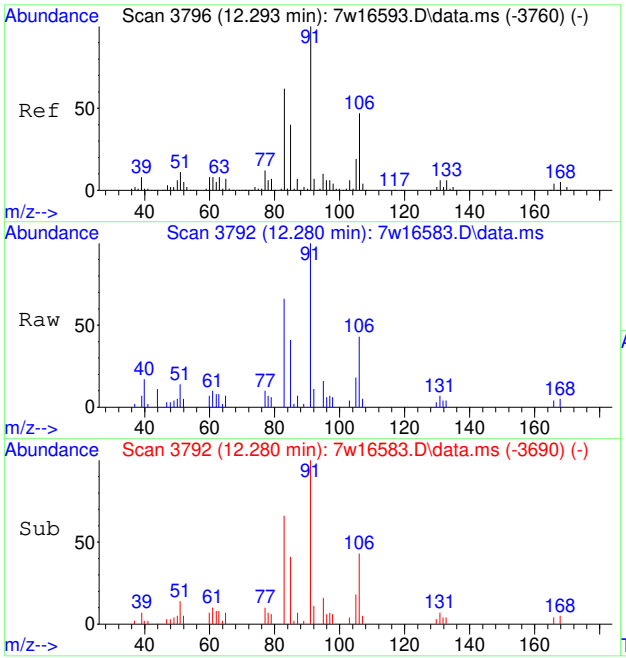


#80
M,P-XYLENE
Concen: 0.37 PPBV
RT: 11.344 min Scan# 3501
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 19306

Ion	Ratio	Lower	Upper
91	100		
106	19.5	0.0	58.7
105	14.1	0.0	43.2

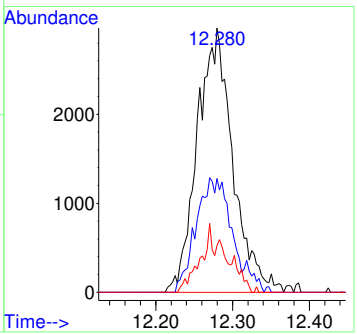


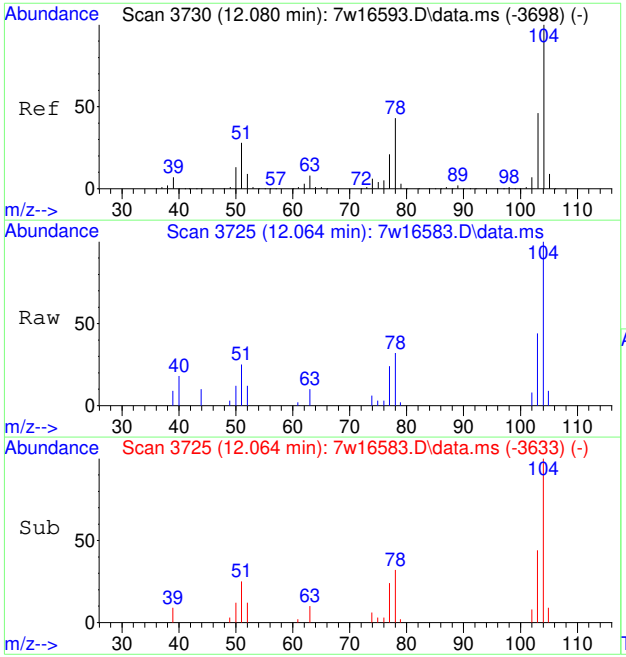


#81
O-XYLENE
Concen: 0.19 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9544

Ion	Ratio	Lower	Upper
91	100		
106	43.0	34.1	63.3
105	17.7	14.6	27.2

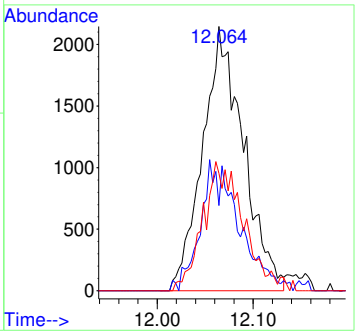


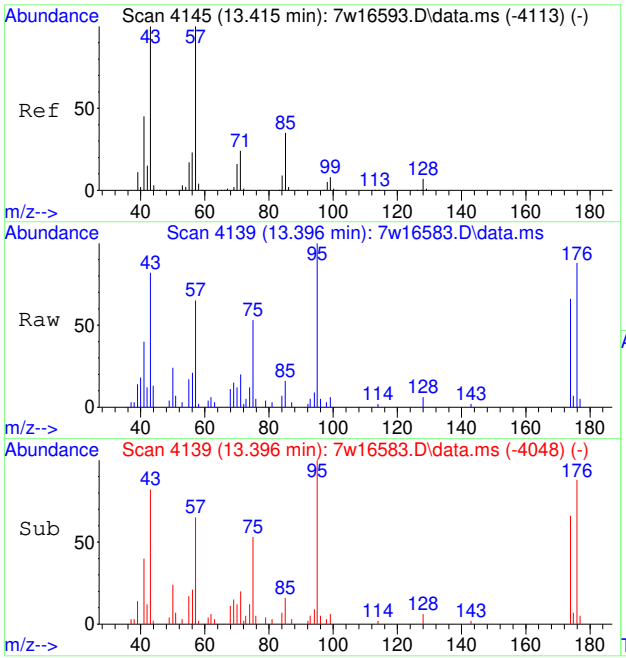


#82
STYRENE
Concen: 0.16 PPBV
RT: 12.064 min Scan# 3725
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:104 Resp: 6329

Ion	Ratio	Lower	Upper
104	100		
78	47.9	25.3	46.9#
103	48.8	33.2	61.7

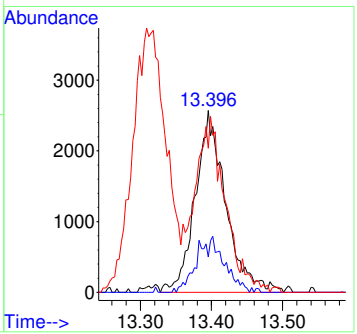


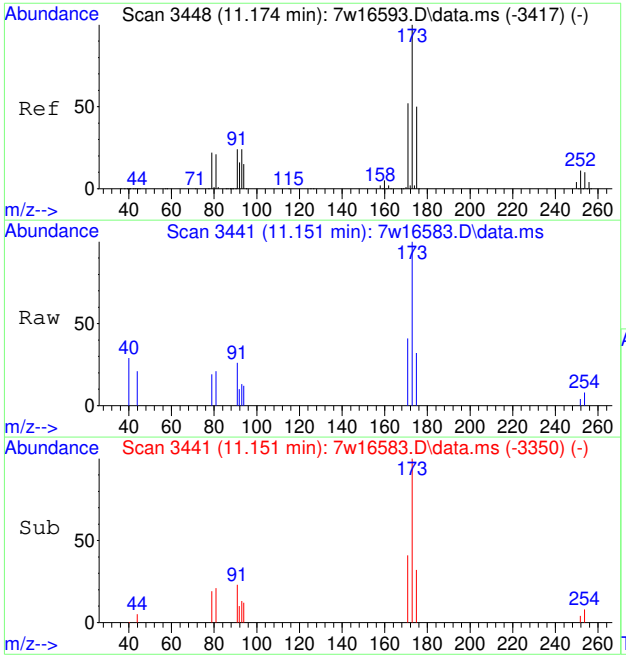


#83
NONANE
Concen: 0.20 PPBV
RT: 13.396 min Scan# 4139
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 7642

Ion	Ratio	Lower	Upper
43	100		
85	28.4	27.6	51.2
57	91.2	56.4	104.7

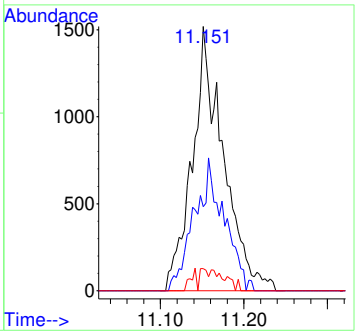


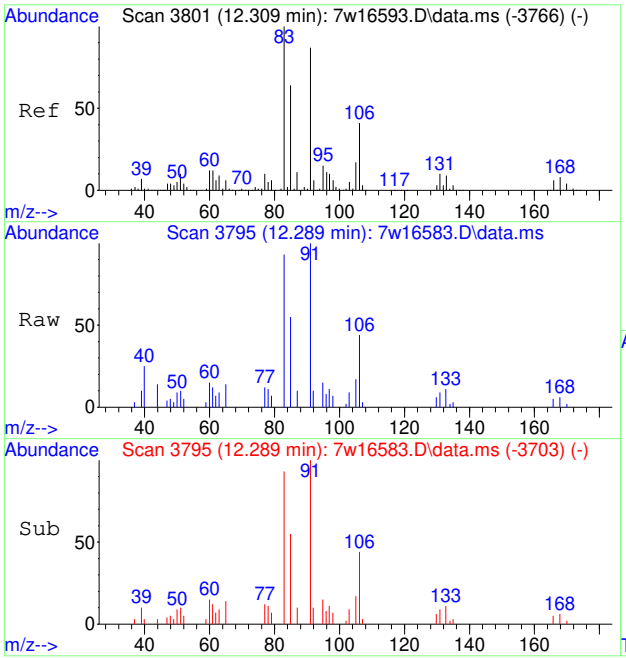


#84
BROMOFORM
Concen: 0.15 PPBV
RT: 11.151 min Scan# 3441
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:173 Resp: 3912

Ion	Ratio	Lower	Upper
173	100		
175	48.4	33.0	61.4
254	7.9	5.9	10.9

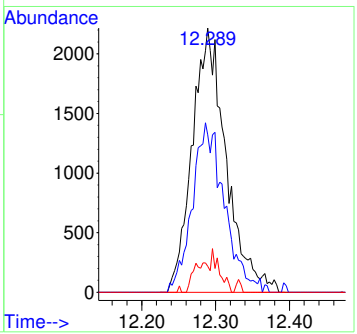


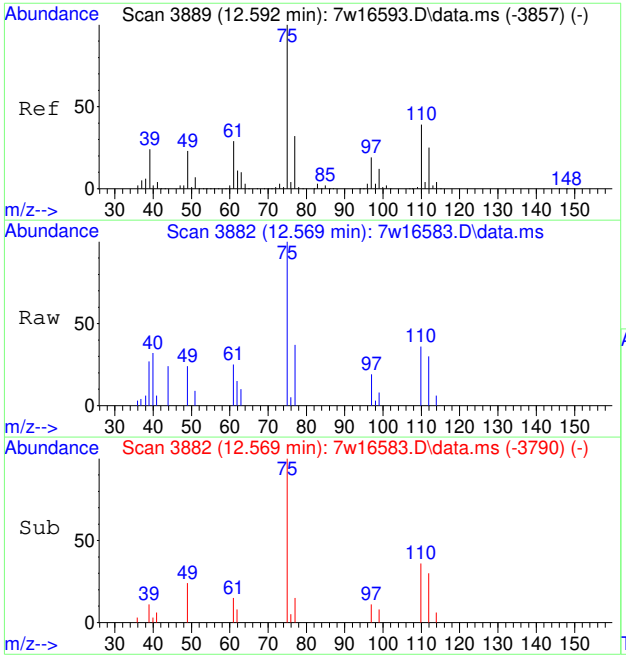


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.19 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 7071

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	9.9	8.0	14.8

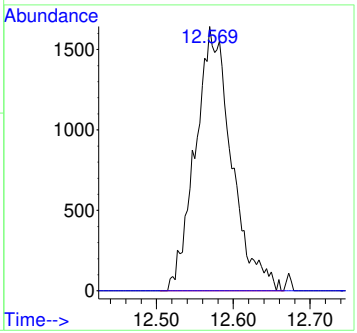


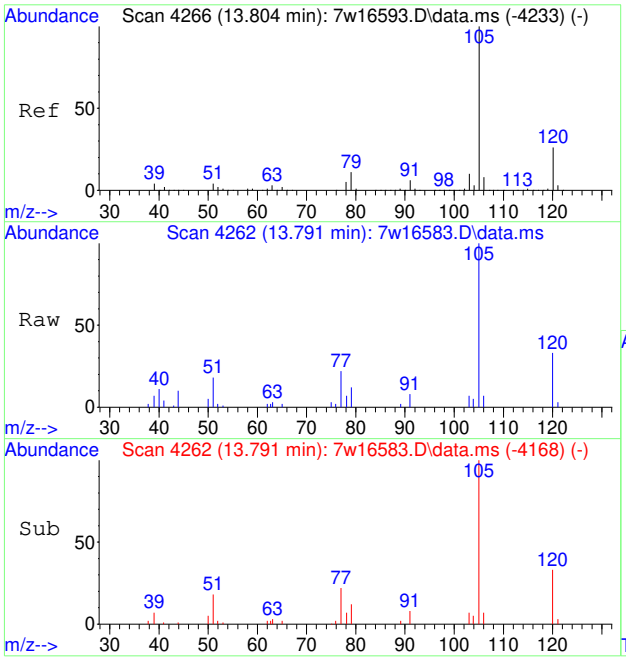


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.19 PPBV
RT: 12.569 min Scan# 3882
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 5376

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

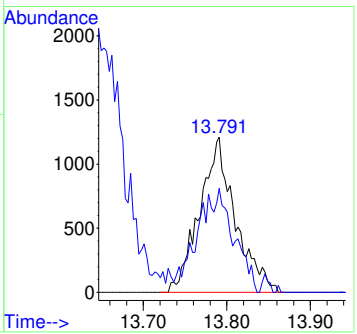


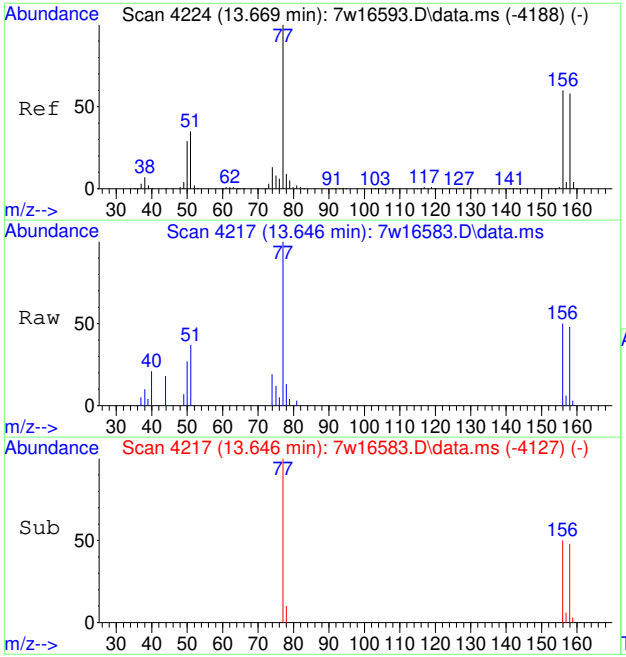


#88
ISOPROPYLBENZENE
Concen: 0.19 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3578

Ion	Ratio	Lower	Upper
120	100		
77	73.3	36.0	67.0#

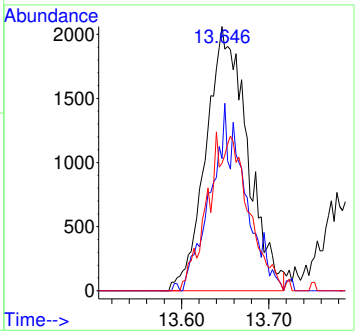


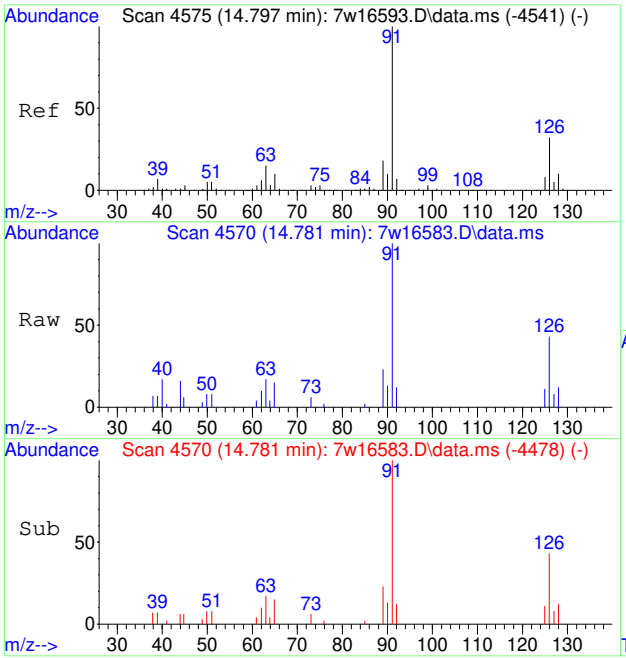


#89
BROMOBENZENE
Concen: 0.19 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 77 Resp: 6796

Ion	Ratio	Lower	Upper
77	100		
156	59.2	57.9	107.5
158	58.4	55.7	103.5

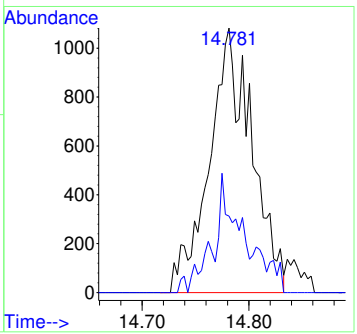


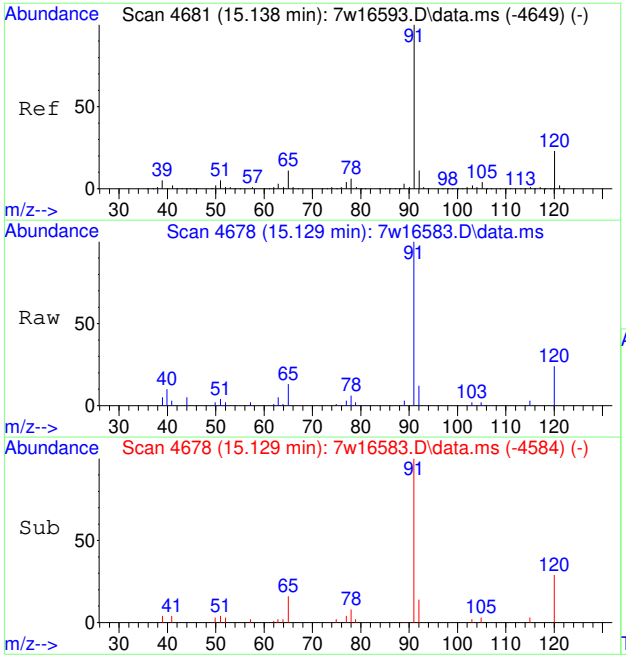


#90
2-CHLOROTOLUENE
Concen: 0.16 PPBV
RT: 14.781 min Scan# 4570
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:126 Resp: 2989

Ion	Ratio	Lower	Upper
126	100		
128	33.2	22.7	42.1

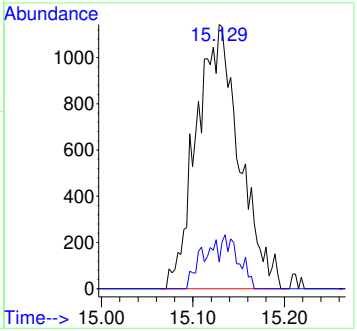


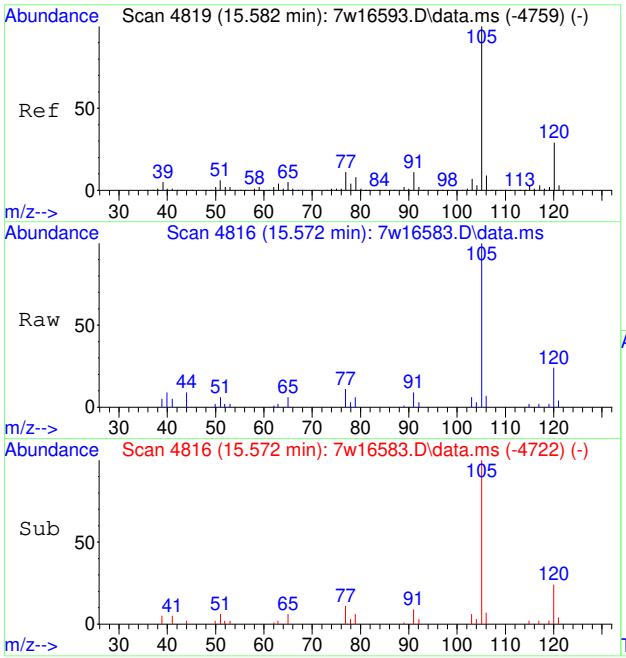


#91
N-PROPYLBENZENE
Concen: 0.18 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3735

Ion	Ratio	Lower	Upper
120	100		
105	15.7	10.6	19.6

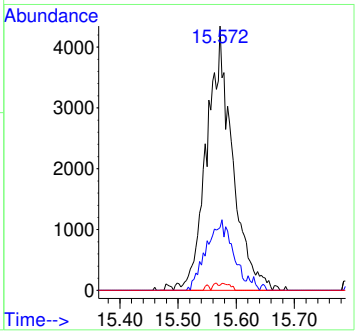


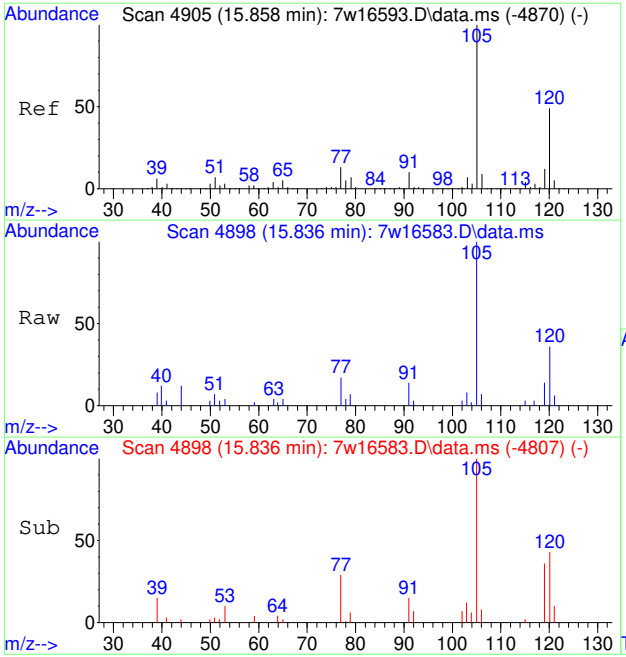


#92
4-ETHYLTOLUENE
Concen: 0.18 PPBV
RT: 15.572 min Scan# 4816
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 13365

Ion	Ratio	Lower	Upper
105	100		
120	28.9	21.8	40.4
119	1.9	1.7	3.1

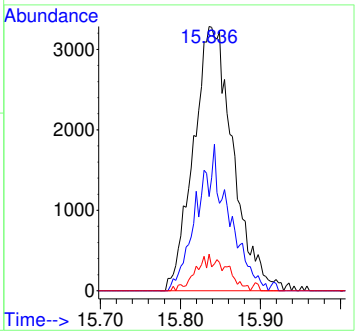


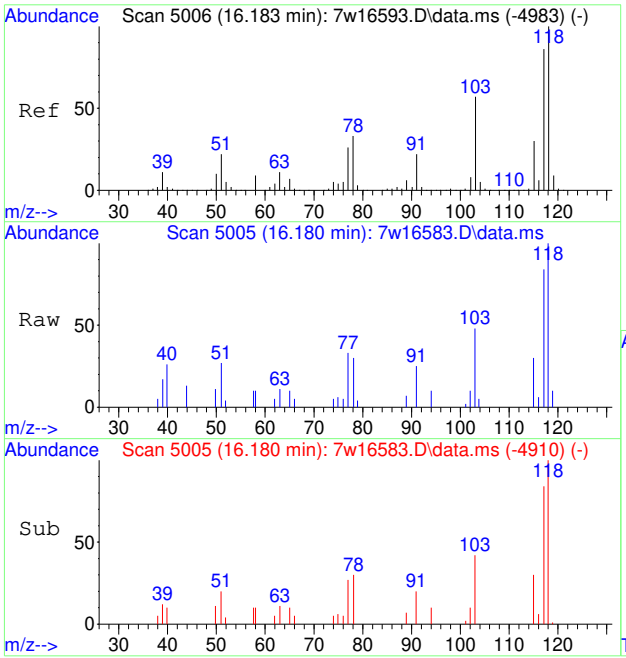


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 15.836 min Scan# 4898
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11247

Ion	Ratio	Lower	Upper
105	100		
120	45.0	37.2	69.2
91	6.7	7.5	13.9#

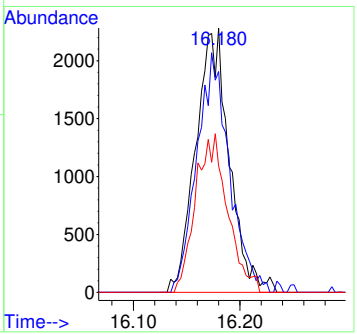


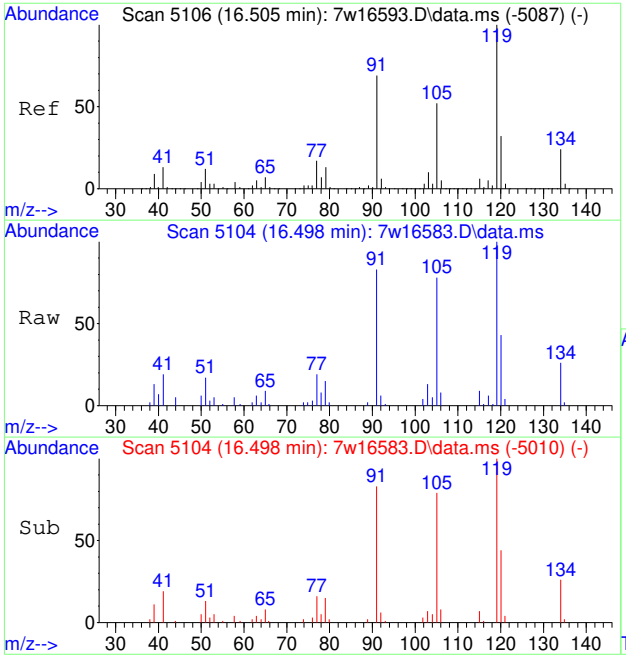


#94
ALPHA-METHYLSTYRENE
Concen: 0.15 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:118 Resp: 4973

Ion	Ratio	Lower	Upper
118	100		
117	88.5	59.9	111.3
103	57.2	36.2	67.2

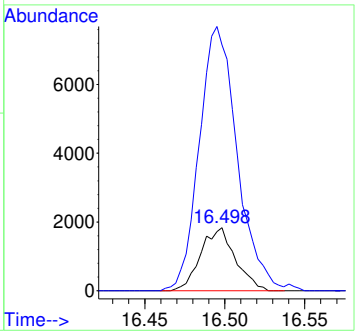


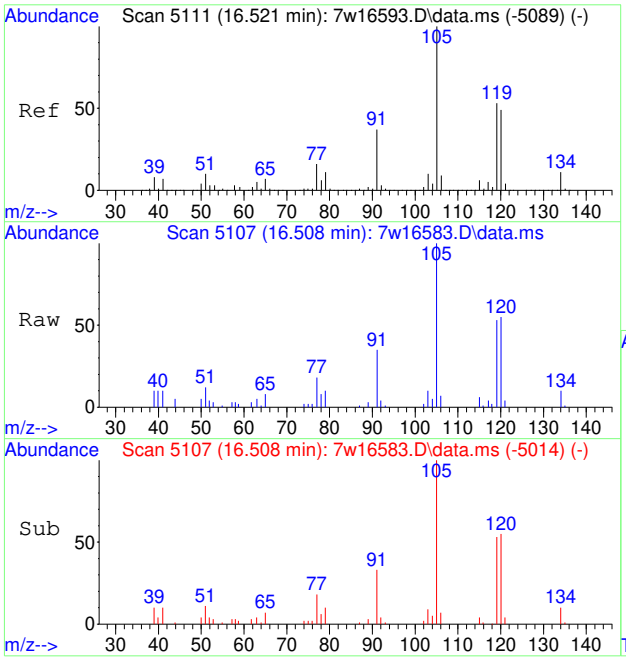


#95
TERT-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 2760

Ion	Ratio	Lower	Upper
134	100		
119	461.8	307.9	571.7

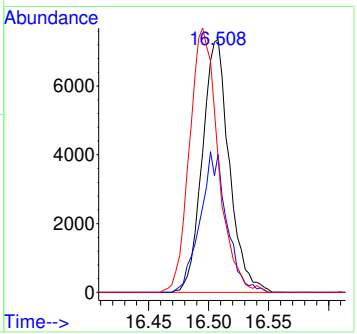


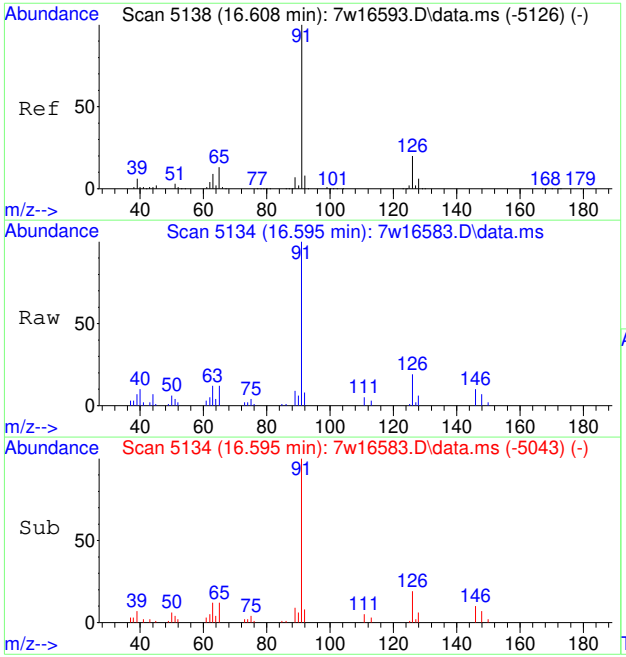


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11478

Ion	Ratio	Lower	Upper
105	100		
120	55.1	40.9	75.9
119	111.0	78.0	144.8

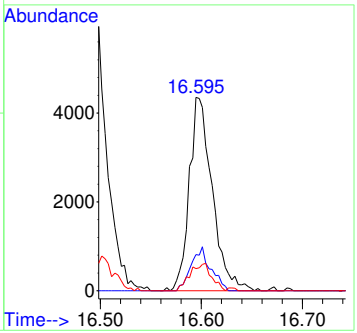


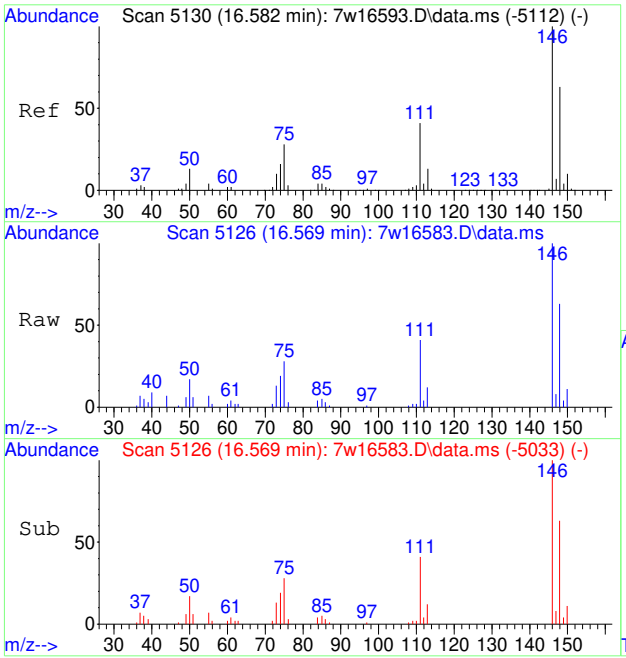


#97
BENZYL CHLORIDE
Concen: 0.13 PPBV
RT: 16.595 min Scan# 5134
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 6914

Ion	Ratio	Lower	Upper
91	100		
126	19.2	17.2	32.0
65	13.7	7.3	13.7#

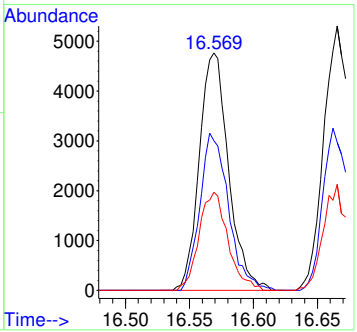


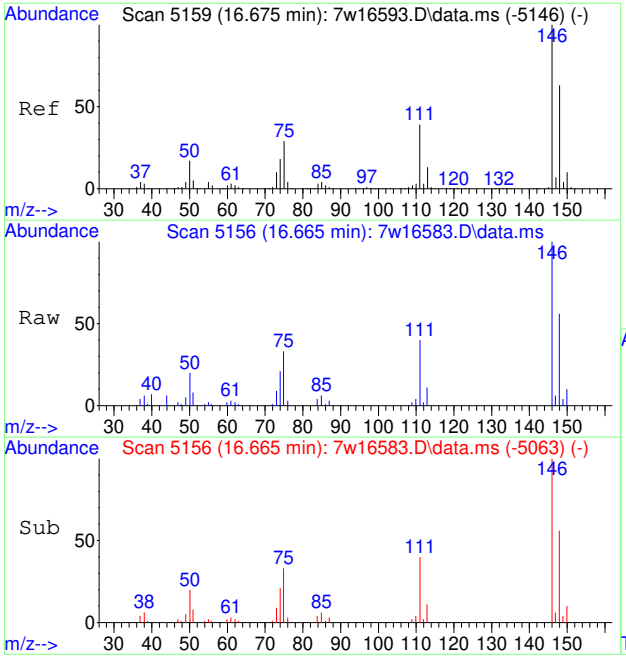


#98
M-DICHLOROBENZENE
Concen: 0.18 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7589

Ion	Ratio	Lower	Upper
146	100		
148	64.8	44.2	82.2
111	40.8	25.4	47.2

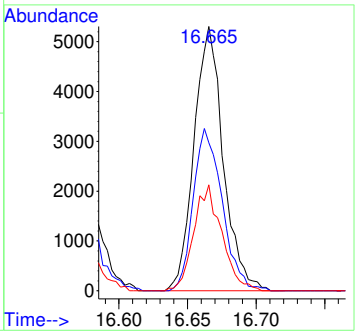


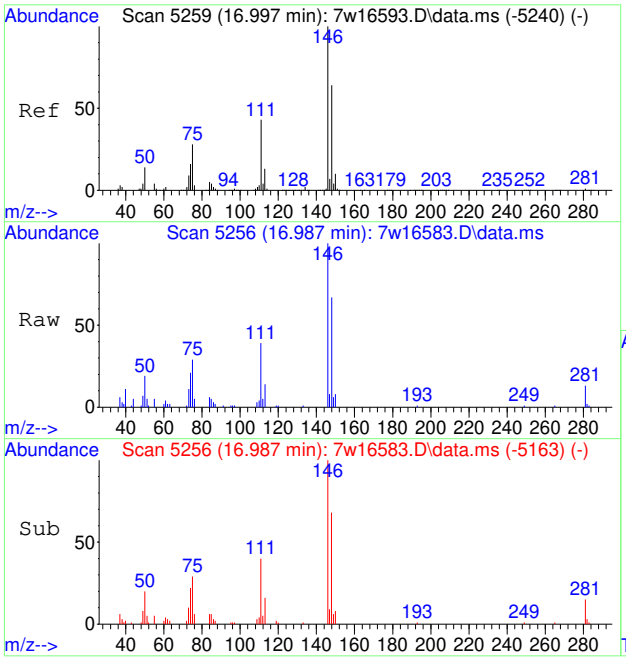


#99
P-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7856

Ion	Ratio	Lower	Upper
146	100		
148	61.0	44.7	82.9
111	38.6	24.8	46.1

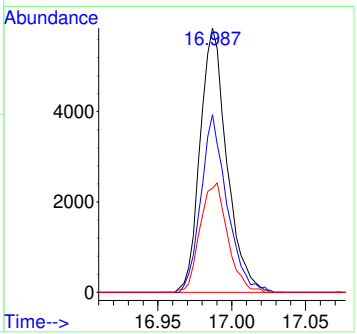


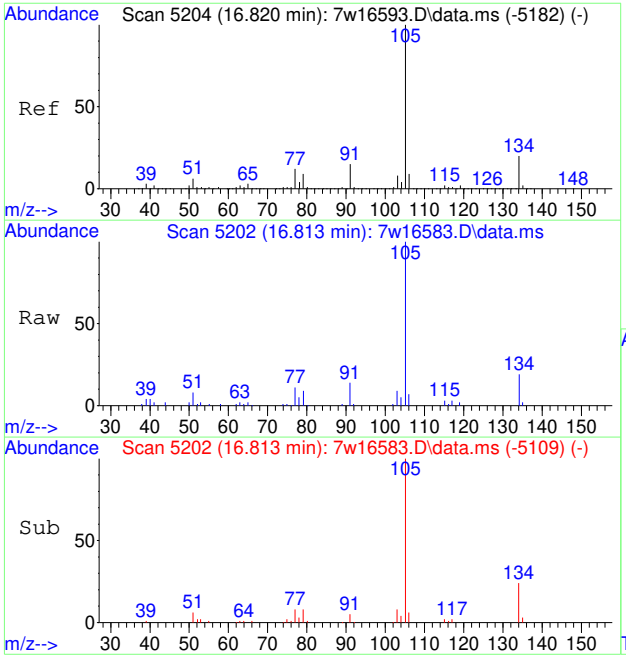


#100
O-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7325

Ion	Ratio	Lower	Upper
146	100		
148	65.4	44.6	82.8
111	42.7	26.9	50.1

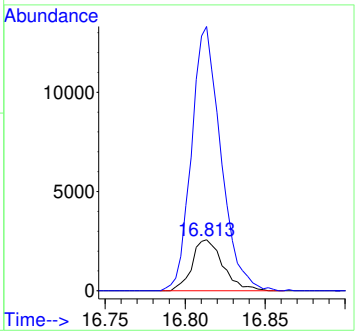


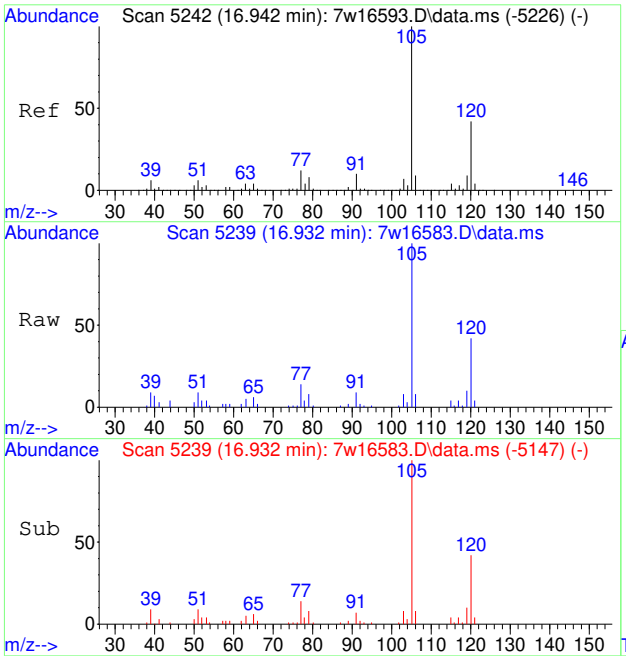


#101
SEC-BUTYLBENZENE
Concen: 0.19 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3439

Ion	Ratio	Lower	Upper
134	100		
105	494.3	314.4	584.0

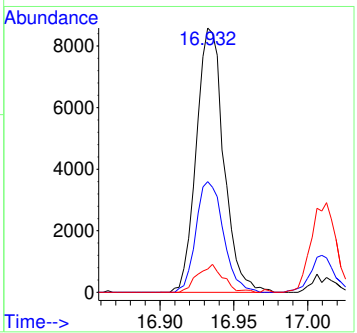


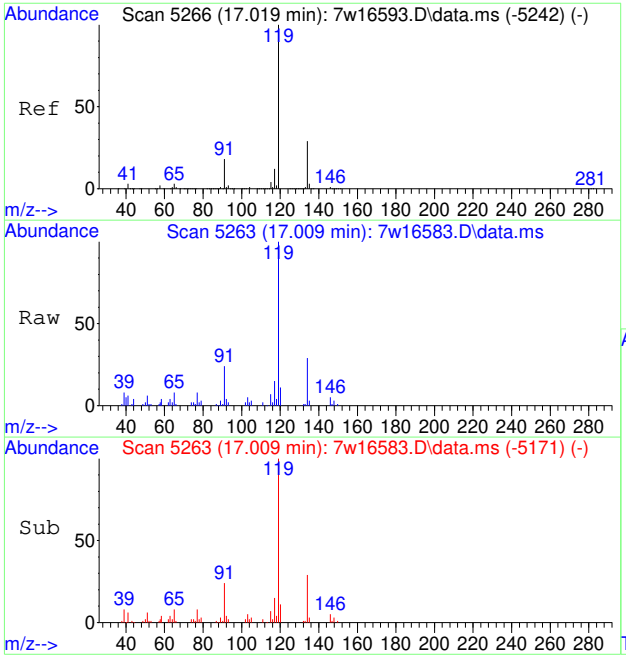


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11073

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

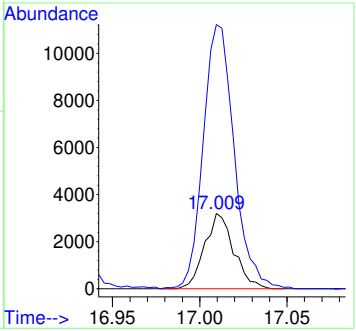


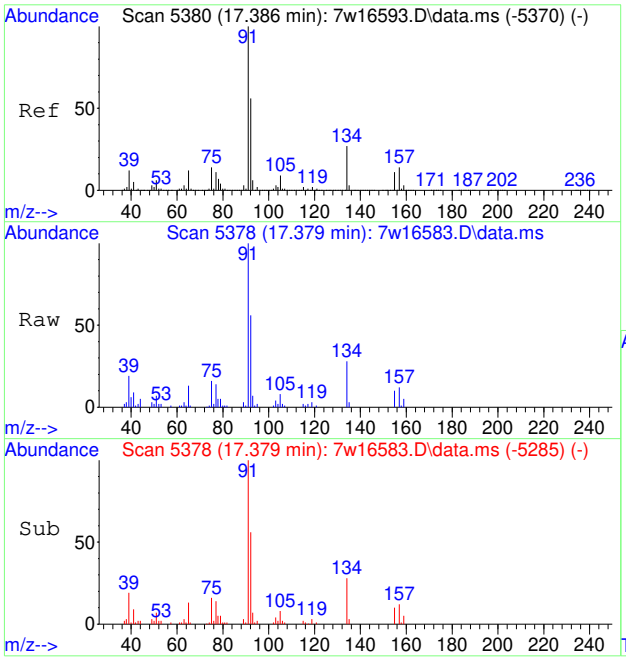


#103
P-ISOPROPYLTOLUENE
Concen: 0.18 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3722

Ion	Ratio	Lower	Upper
134	100		
119	372.9	253.7	471.3

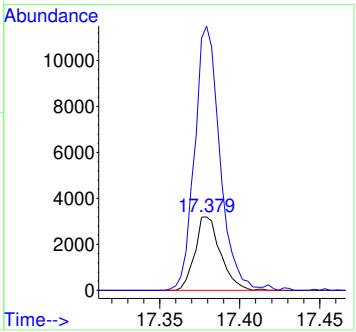


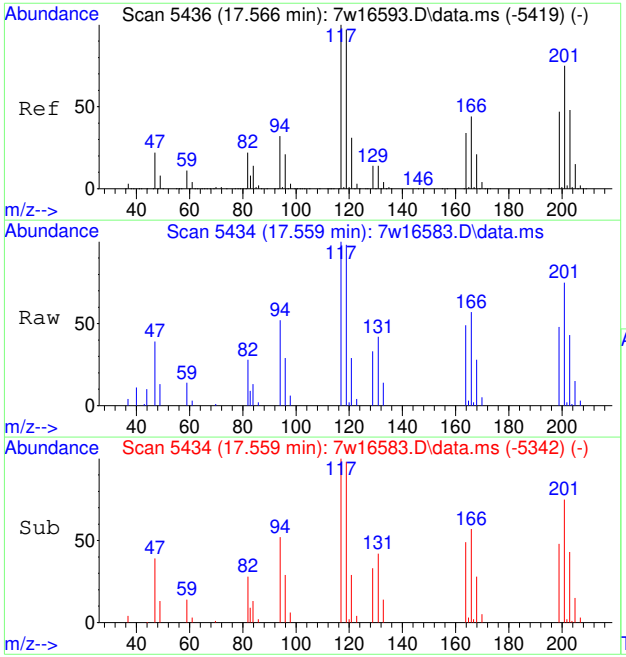


#104
N-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3557

Ion	Ratio	Lower	Upper
134	100		
91	358.3	231.1	429.1

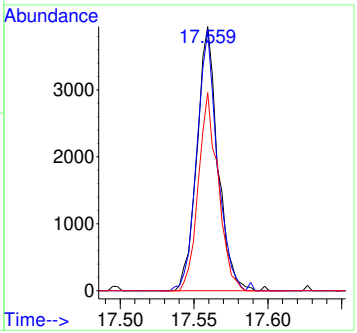


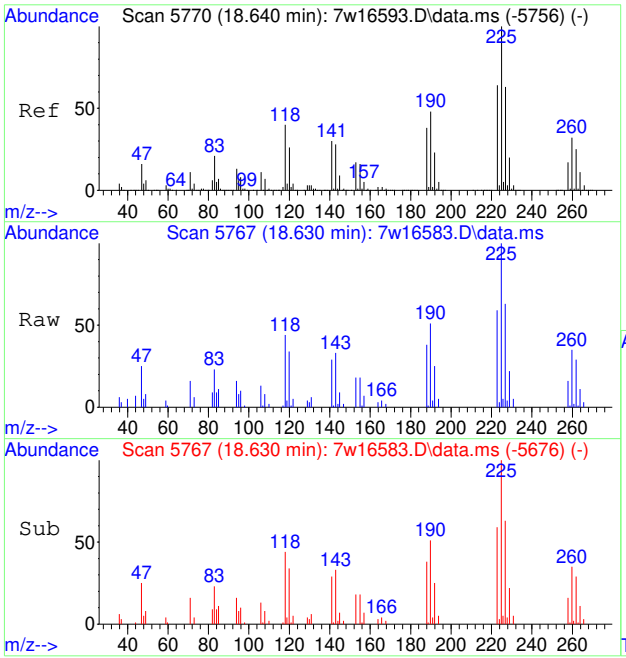


#105
HEXACHLOROETHANE
Concen: 0.16 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3887

Ion	Ratio	Lower	Upper
117	100		
119	96.9	68.3	126.9
201	70.9	45.9	85.3

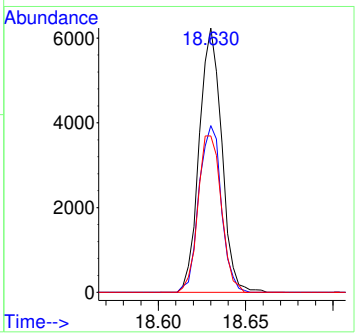


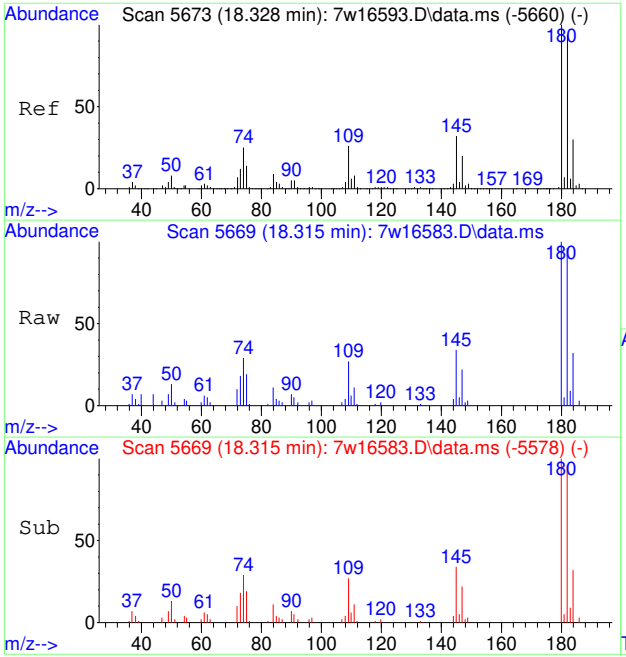


#106
HEXACHLOROBUTADIENE
Concen: 0.21 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:225 Resp: 5583

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.4	82.5
223	61.5	44.7	83.1

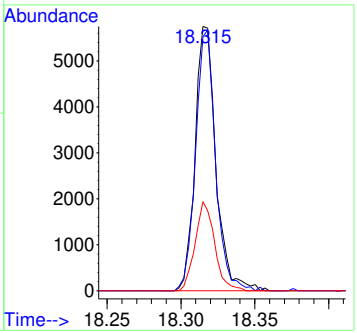


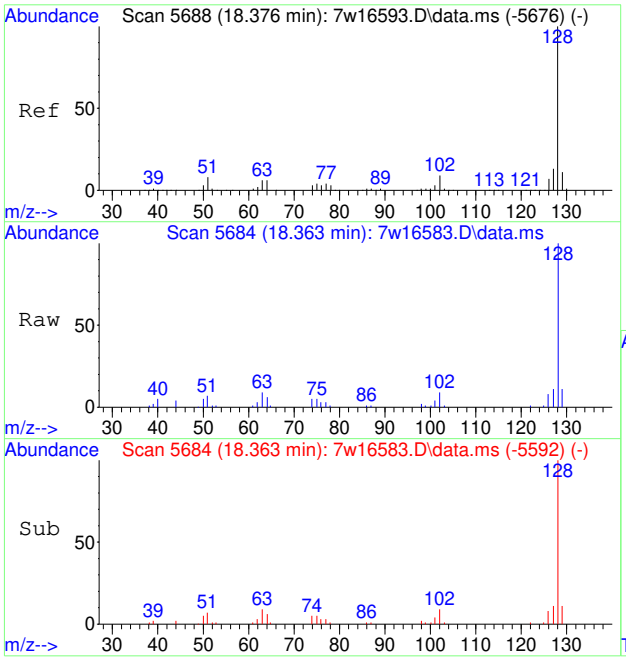


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.16 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:180 Resp: 5618

Ion	Ratio	Lower	Upper
180	100		
182	94.3	66.8	124.0
145	31.6	23.1	42.9

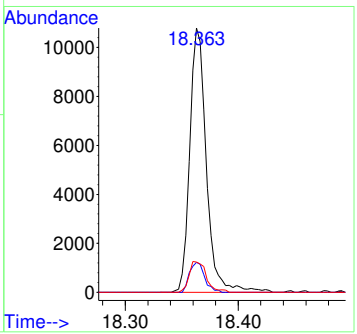


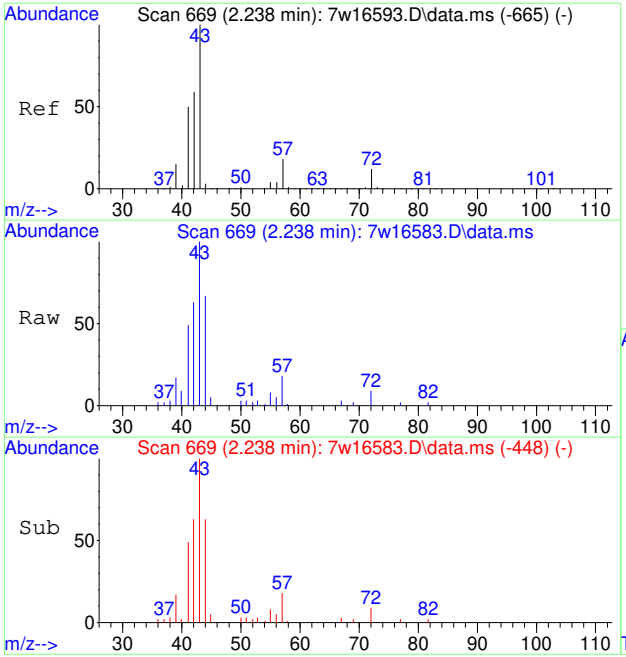


#108
NAPHTHALENE
Concen: 0.14 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:128 Resp: 11029

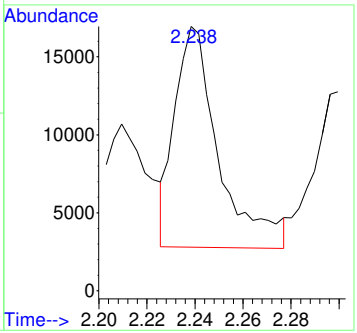
Ion	Ratio	Lower	Upper
128	100		
129	10.4	7.3	13.7
127	12.1	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.28 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:TIC Resp: 17908



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16583.D
Injection Time: 08/07/25 08:36

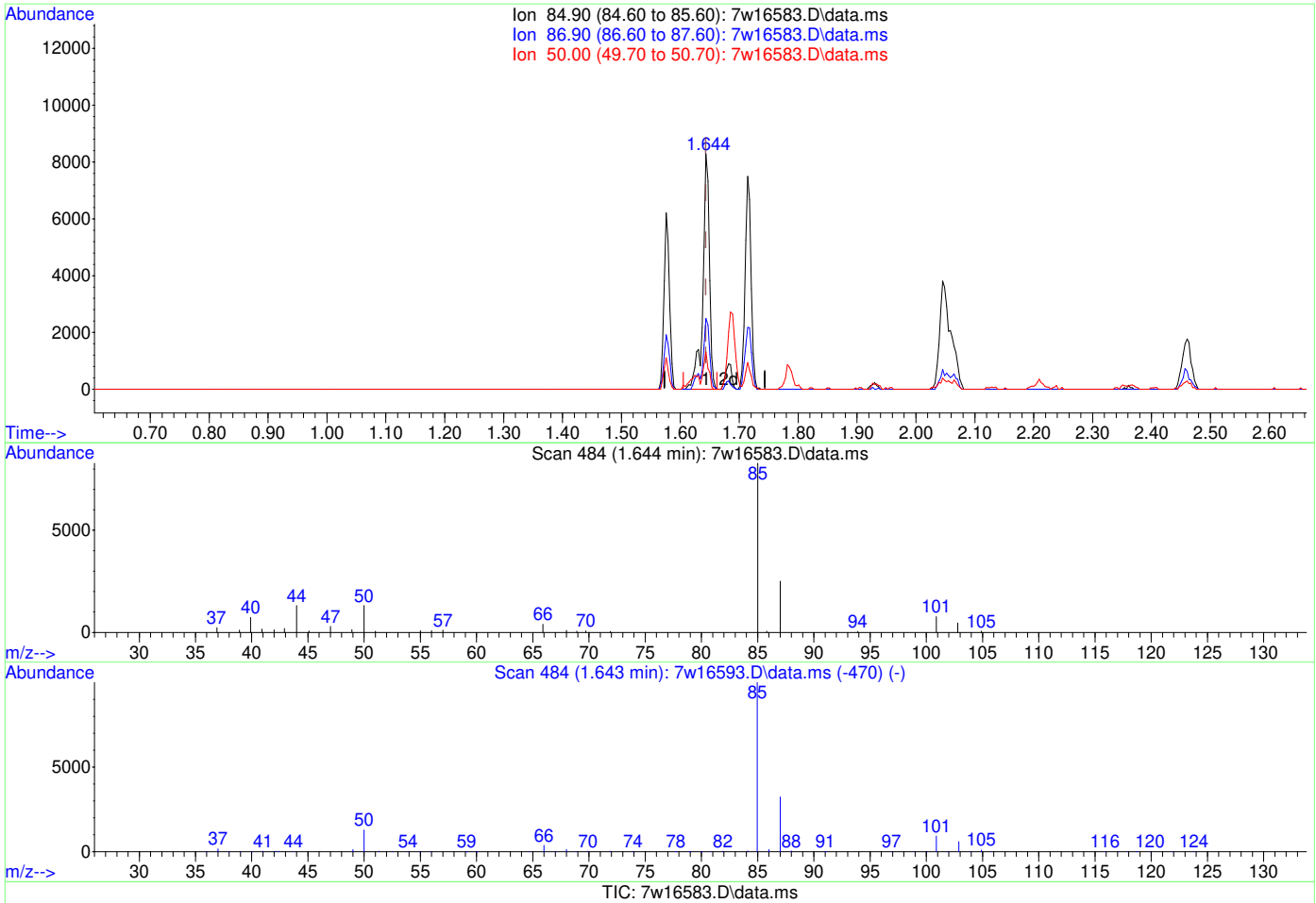
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.19PPBV

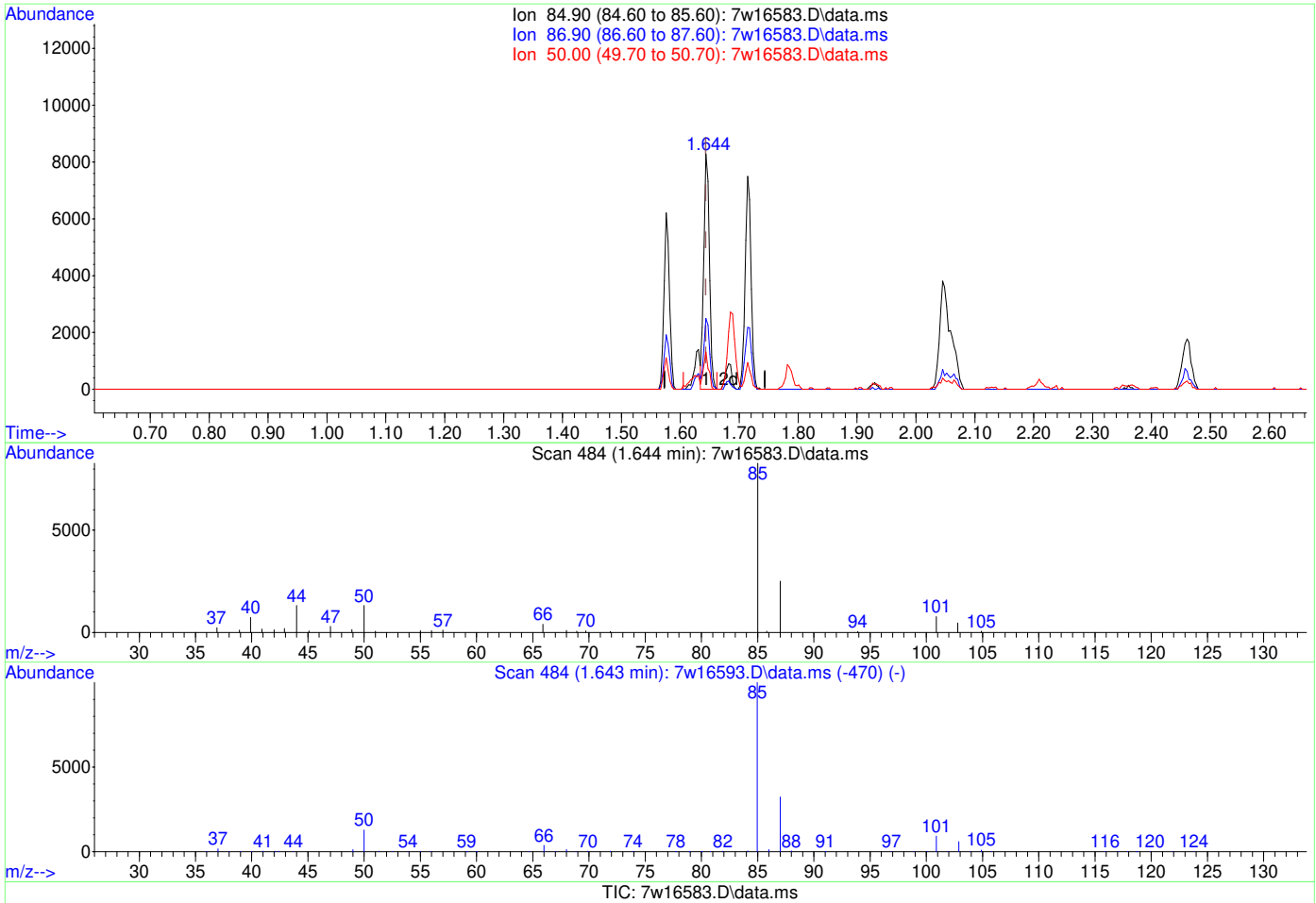
response 6418

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	31.93
50.00	17.30	21.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.16PPBV m

response 5428

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	37.75
50.00	17.30	25.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114041	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	577981	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	540711	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114041	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	422778	9.61	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	6776	0.46	PPBV		84
3) FREON 152A	1.608	65	3692	0.53	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	1804	0.56	PPBV		94
5) CHLOROTRIFLUOROETHENE	1.628	116	7994	0.51	PPBV		73
6) DICHLORODIFLUOROMETHANE	1.644	85	14890m	0.44	PPBV		
7) PROPYLENE	1.628	41	4672	0.52	PPBV		94
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	13815	0.54	PPBV		96
9) FREON 114	1.714	85	15094	0.51	PPBV		84
10) CHLOROMETHANE	1.685	52	1982	0.52	PPBV		98
11) VINYL CHLORIDE	1.747	62	7044	0.49	PPBV		97
12) 1,3-BUTADIENE	1.785	54	5673	0.51	PPBV	#	73
13) N-BUTANE	1.798	43	10254	0.54	PPBV	#	83
14) BROMOMETHANE	1.856	94	5311	0.49	PPBV		94
15) CHLOROETHANE	1.904	64	3739	0.50	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	13156	0.49	PPBV		97
17) ACETONITRILE	1.997	41	6126	0.52	PPBV		93
18) ACROLEIN	2.033	56	3496	0.57	PPBV		99
19) FREON 123	2.049	83	14538	0.53	PPBV		97
20) FREON 123A	2.065	117	8271	0.51	PPBV	#	48
21) TRICHLOROFLUOROMETHANE	2.129	101	16036	0.51	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	14702	0.56	PPBV		89
23) ACETONE	2.075	58	4031	0.56	PPBV		67
24) PENTANE	2.242	42	7252	0.54	PPBV	#	86
25) IODOMETHANE	2.300	142	15067	0.52	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.329	96	6087	0.52	PPBV	#	55
27) CARBON DISULFIDE	2.460	76	17823	0.53	PPBV		96
28) ETHANOL	1.936	45	3995	0.60	PPBV	#	94
29) BROMOETHENE	2.004	106	5459	0.48	PPBV		98
30) ACRYLONITRILE	2.210	52	5767	0.58	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	5842	0.53	PPBV	#	74
32) 3-CHLOROPROPENE	2.406	76	3137	0.50	PPBV	#	72
33) FREON 113	2.460	151	9645	0.53	PPBV		86
34) TRANS-1,2-DICHLOROETHENE	2.689	96	6513	0.51	PPBV	#	61
35) TERTIARY BUTYL ALCOHOL	2.345	59	15020	0.47	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	18863	0.52	PPBV	#	90
37) TETRAHYDROFURAN	3.483	72	2906	0.48	PPBV		79
38) HEXANE	3.242	57	12572	0.52	PPBV		83
39) VINYL ACETATE	2.827	86	1605	0.45	PPBV	#	82
40) 1,1-DICHLOROETHANE	2.759	63	12723	0.50	PPBV		98
41) METHYL ETHYL KETONE	2.927	72	3223	0.49	PPBV	#	79
42) CIS-1,2-DICHLOROETHENE	3.116	96	6837	0.51	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	3577	0.51	PPBV		100
44) ETHYL ACETATE	3.255	61	2292	0.47	PPBV		85
45) METHYL ACRYLATE	3.238	55	15089	0.50	PPBV	#	98
46) CHLOROFORM	3.258	83	14039	0.53	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	14638	0.53	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	13952	0.51	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	13931	0.47	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	10566	0.51	PPBV		99
51)	BENZENE	4.126	78	19953	0.51	PPBV		90
53)	CYCLOHEXANE	4.332	84	9049	0.51	PPBV	#	72
54)	2,3-DIMETHYLPENTANE	4.582	71	4648	0.51	PPBV		64
55)	TRICHLOROETHENE	5.017	95	9226	0.49	PPBV		85
56)	1,2-DICHLOROPROPANE	4.782	63	8549	0.51	PPBV		91
57)	DIBROMOMETHANE	4.743	174	7819	0.51	PPBV		91
58)	ETHYL ACRYLATE	4.904	55	18149	0.48	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.959	83	14412	0.46	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	40435	0.51	PPBV	#	93
61)	1,4-DIOXANE	5.062	88	4245	0.45	PPBV	#	72
62)	HEPTANE	5.418	43	13738	0.52	PPBV		88
63)	METHYL METHACRYLATE	5.322	69	7482	0.49	PPBV		87
64)	METHYL ISOBUTYL KETONE	6.049	58	7119	0.46	PPBV		87
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	11946	0.45	PPBV		99
66)	TOLUENE	7.126	91	24682	0.51	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	12380	0.50	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	10011	0.41	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	7248	0.51	PPBV		92
70)	2-HEXANONE	7.708	58	9642	0.47	PPBV	#	81
71)	ETHYL METHACRYLATE	7.833	69	12576	0.48	PPBV		91
72)	TETRACHLOROETHENE	8.836	164	9191	0.52	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.663	129	12752	0.43	PPBV		97
74)	1,2-DIBROMOETHANE	7.994	107	13213	0.52	PPBV		99
75)	OCTANE	8.994	43	18440	0.51	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.052	131	9977	0.47	PPBV		90
78)	CHLOROBENZENE	10.045	112	20418	0.52	PPBV		90
79)	ETHYLBENZENE	10.917	91	33108	0.52	PPBV		96
80)	M,P-XYLENE	11.347	91	51511	1.00	PPBV		98
81)	O-XYLENE	12.273	91	26468	0.52	PPBV		97
82)	STYRENE	12.068	104	18750	0.48	PPBV		94
83)	NONANE	13.402	43	19802	0.51	PPBV		81
84)	BROMOFORM	11.155	173	10827	0.42	PPBV		95
85)	1,1,2,2-TETRACHLOROETHANE	12.286	83	18876	0.51	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.563	75	15262	0.53	PPBV	#	99
88)	ISOPROPYLBENZENE	13.791	120	9713	0.50	PPBV		80
89)	BROMOBENZENE	13.640	77	18640	0.51	PPBV		75
90)	2-CHLOROTOLUENE	14.778	126	8526	0.47	PPBV	#	74
91)	N-PROPYLBENZENE	15.129	120	9669	0.46	PPBV		98
92)	4-ETHYLTOLUENE	15.569	105	36862	0.48	PPBV	#	47
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	30468	0.48	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.174	118	14307	0.44	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	7825	0.51	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.502	105	31128	0.49	PPBV		98
97)	BENZYL CHLORIDE	16.598	91	19459	0.35	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	20646	0.48	PPBV		96
99)	P-DICHLOROBENZENE	16.662	146	20868	0.49	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	19799	0.50	PPBV		95
101)	SEC-BUTYLBENZENE	16.813	134	9482	0.51	PPBV		86
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	30663	0.49	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	10237	0.49	PPBV		94
104)	N-BUTYLBENZENE	17.376	134	9347	0.47	PPBV		76
105)	HEXACHLOROETHANE	17.559	117	10816	0.44	PPBV		97
106)	HEXACHLOROBUTADIENE	18.633	225	14662	0.54	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.318	180	15355	0.44	PPBV		97
108)	NAPHTHALENE	18.366	128	32243	0.40	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	43130	0.69	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

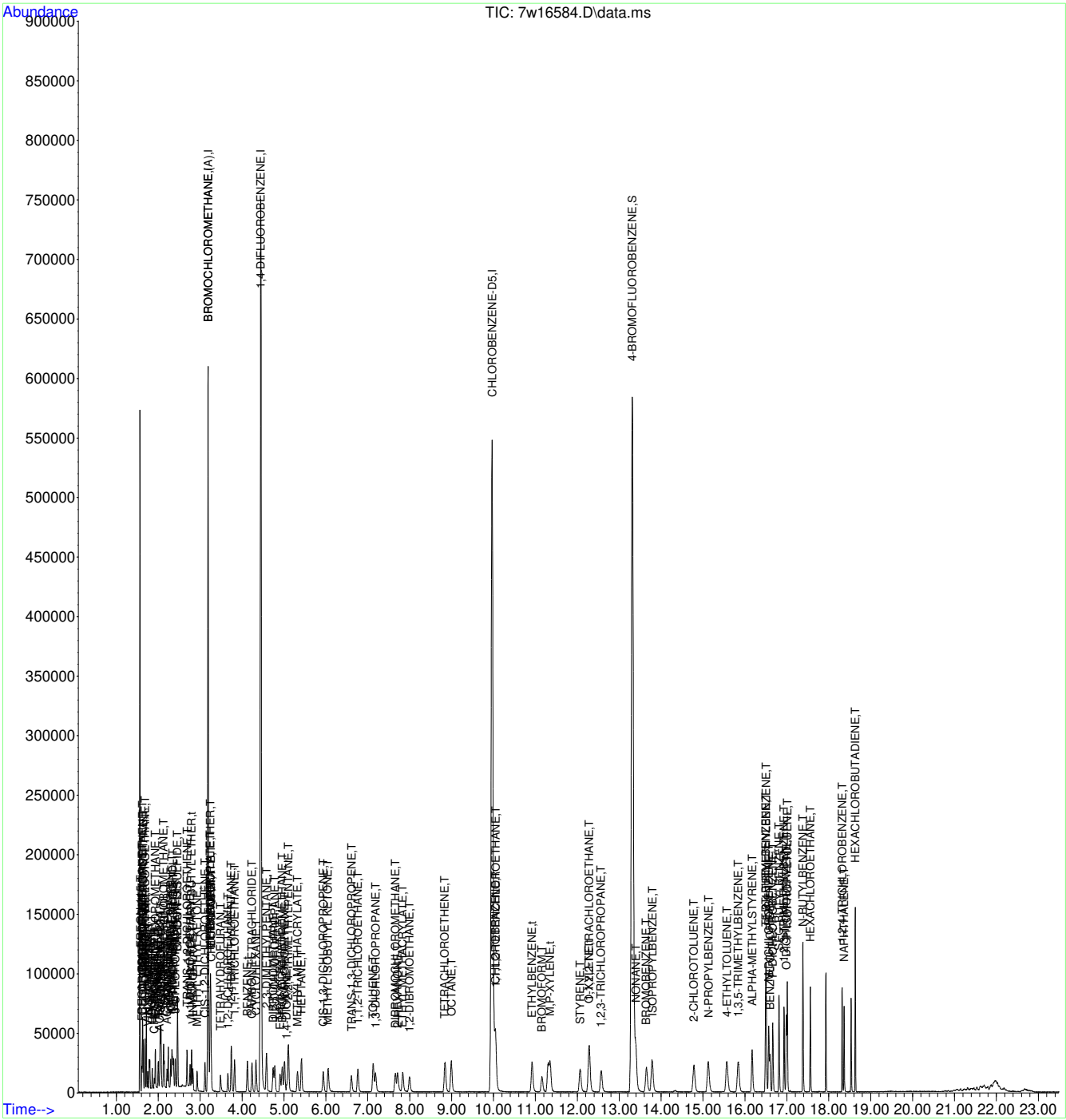
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

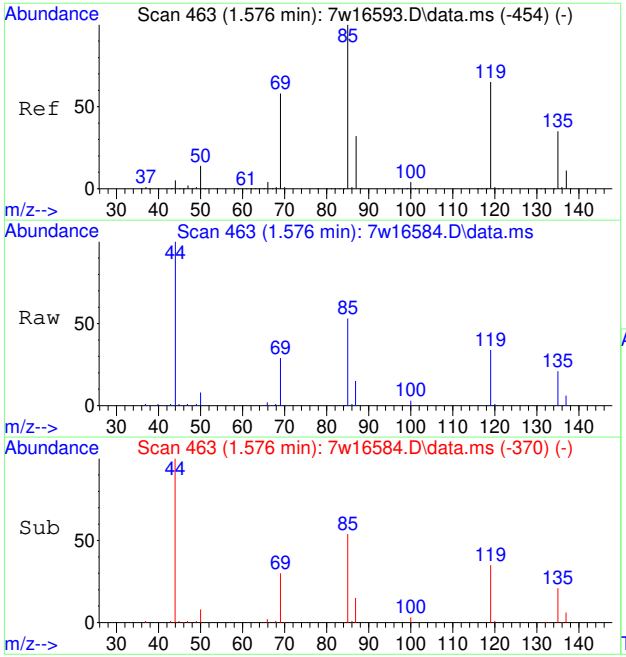
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

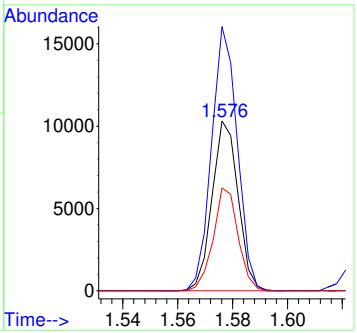


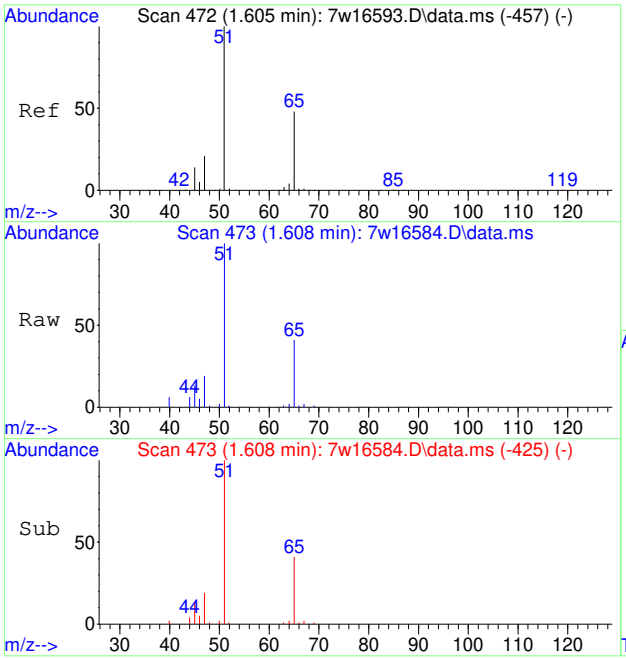


#2
FREON 115
Concen: 0.46 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:119 Resp: 6776

Ion	Ratio	Lower	Upper
119	100		
85	154.0	90.9	168.7
135	58.1	38.2	71.0

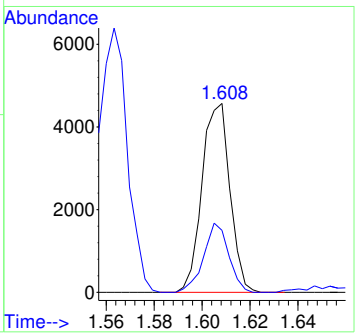


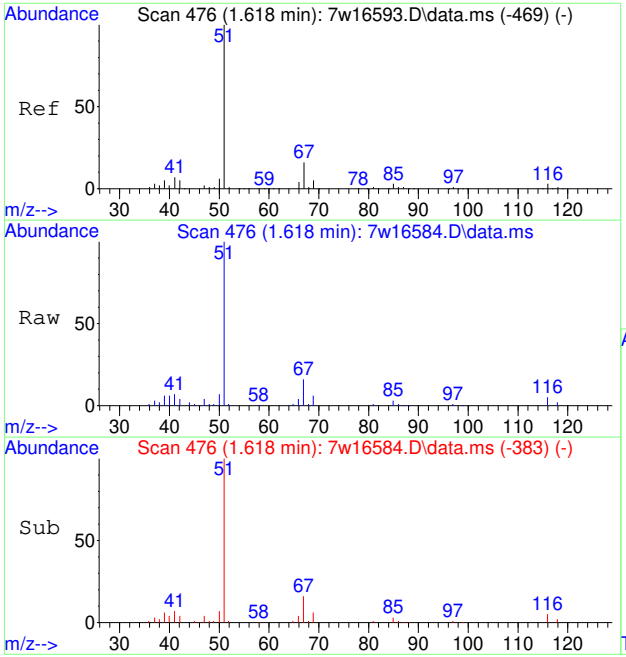


#3
FREON 152A
Concen: 0.53 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 3692

Ion	Ratio	Lower	Upper
65	100		
45	33.0	20.6	38.4

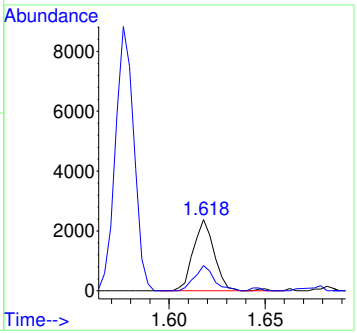


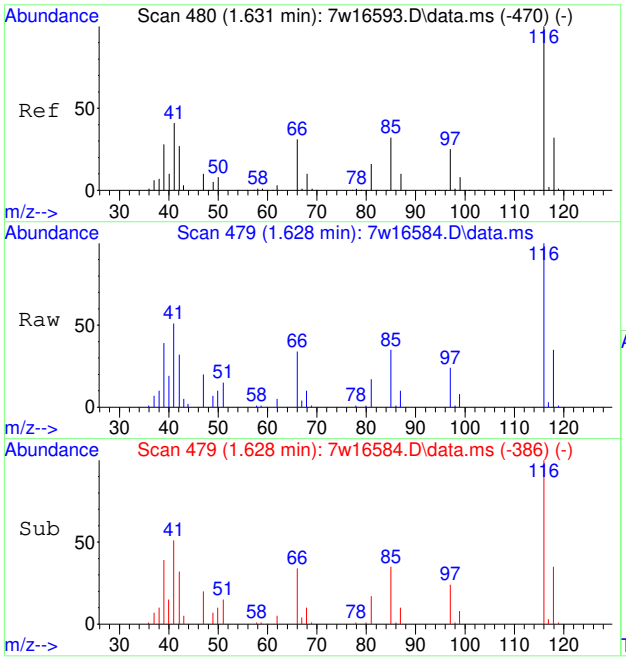


#4
CHLORODIFLUOROMETHANE
Concen: 0.56 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 1804

Ion	Ratio	Lower	Upper
67	100		
69	33.0	25.4	47.2

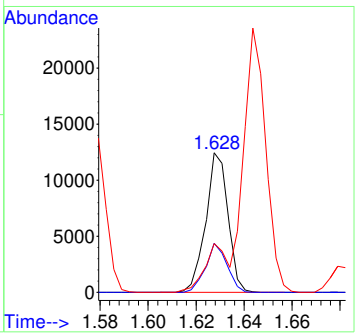


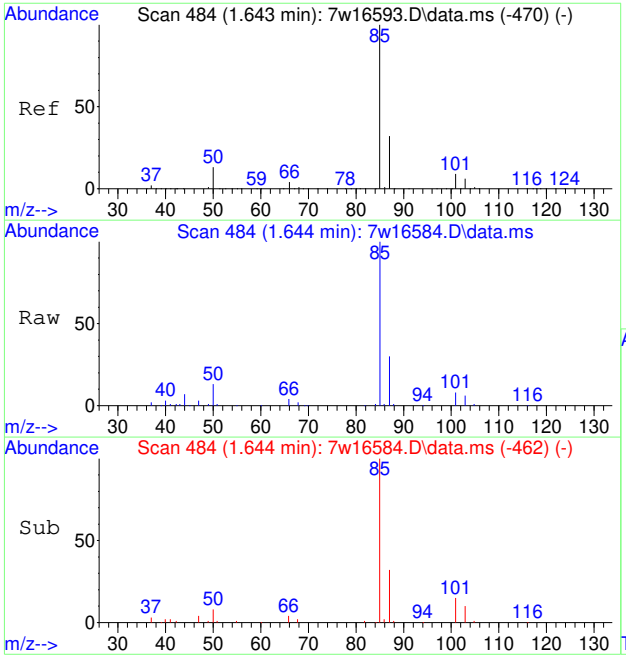


#5
CHLOROTRIFLUOROETHENE
Concen: 0.51 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:116 Resp: 7994

Ion	Ratio	Lower	Upper
116	100		
118	33.8	22.7	42.1
85	221.5	194.7	361.7

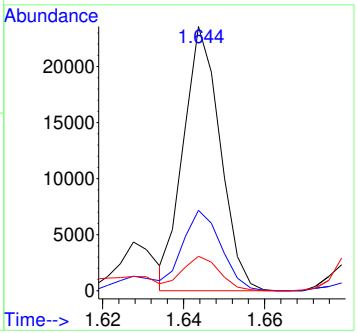


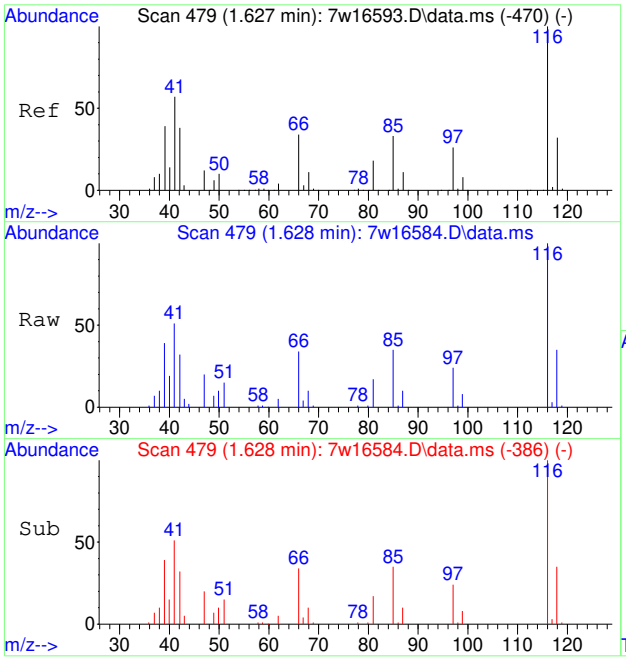


#6
DICHLORODIFLUOROMETHANE
Concen: 0.44 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 14890

Ion	Ratio	Lower	Upper
85	100		
87	38.2	23.1	42.9
50	23.9	12.1	22.5#

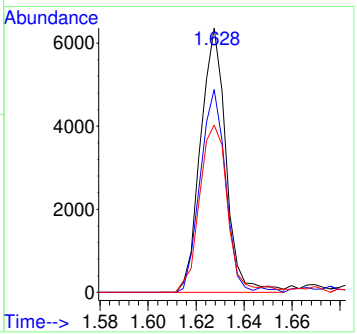


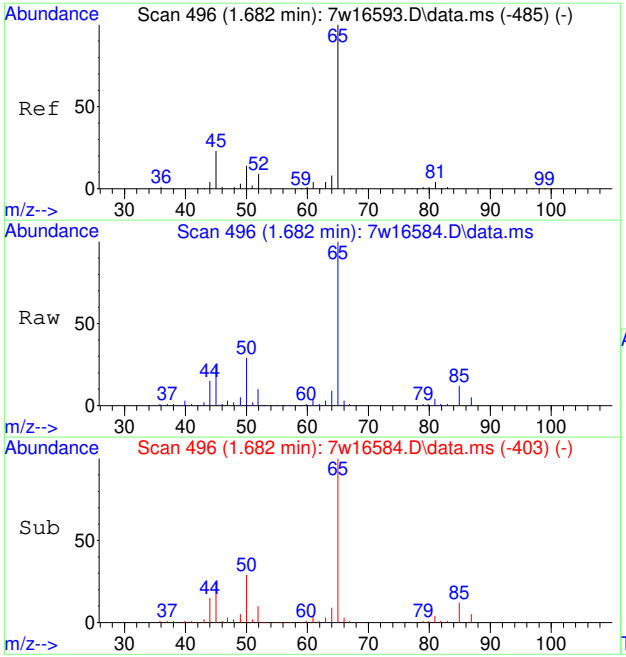


#7
PROPYLENE
Concen: 0.52 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 4672

Ion	Ratio	Lower	Upper
41	100		
39	76.8	51.0	94.8
42	71.9	46.6	86.6

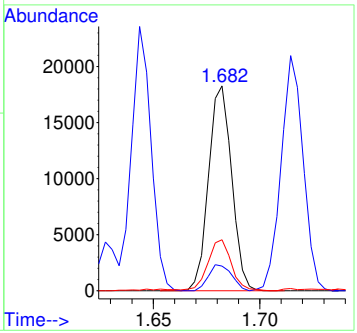


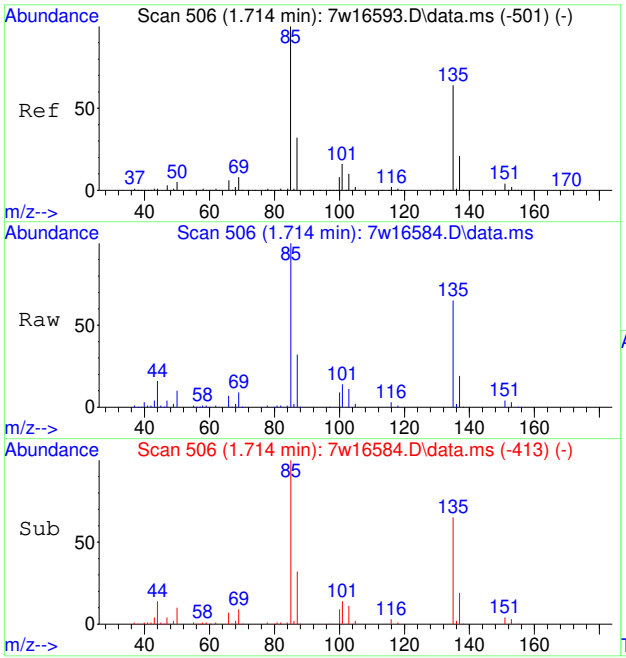


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.54 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 13815

Ion	Ratio	Lower	Upper
65	100		
85	13.0	9.7	17.9
45	26.7	17.0	31.6

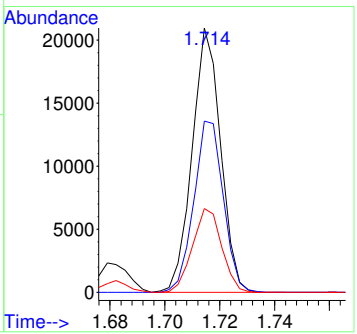


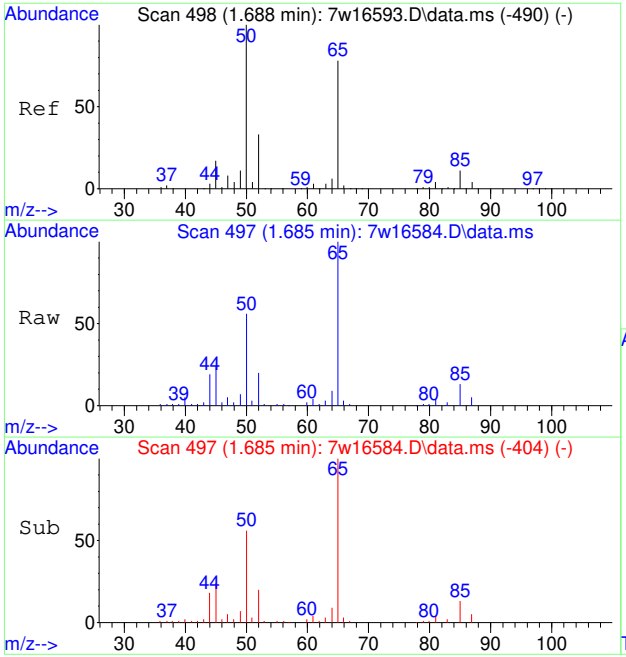


#9
FREON 114
Concen: 0.51 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 15094

Ion	Ratio	Lower	Upper
85	100		
135	67.3	61.3	113.9
87	32.6	23.2	43.0

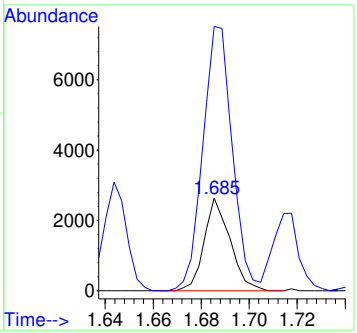


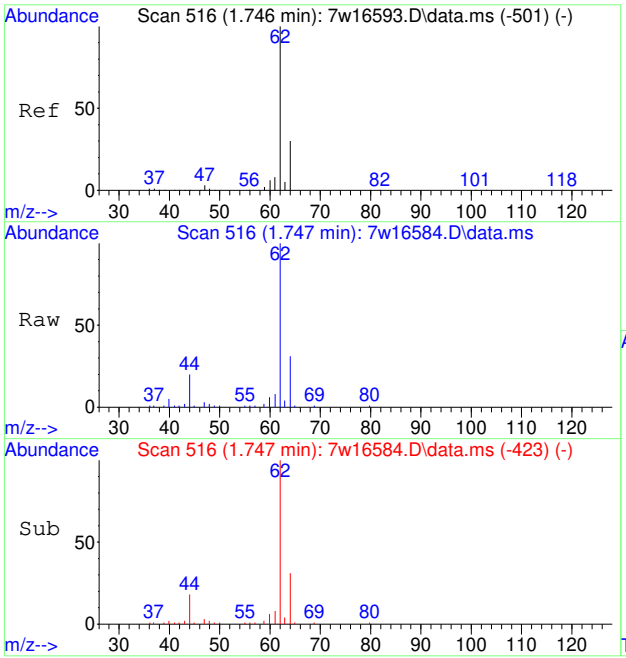


#10
CHLOROMETHANE
Concen: 0.52 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 1982

Ion	Ratio	Lower	Upper
52	100		
50	321.8	227.6	422.6

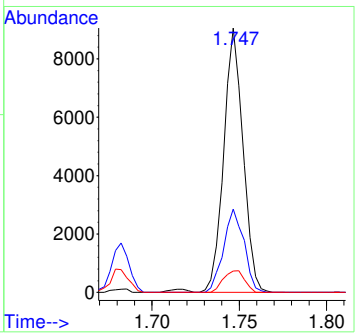


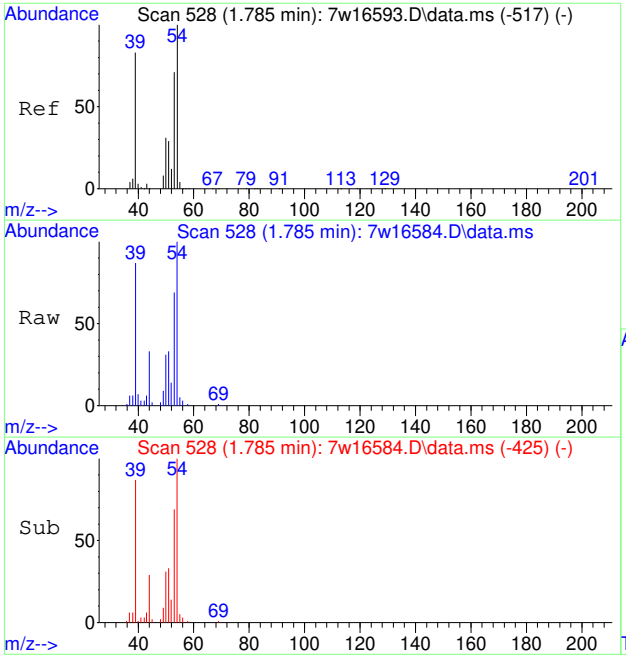


#11
VINYL CHLORIDE
Concen: 0.49 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 7044

Ion	Ratio	Lower	Upper
62	100		
64	33.0	21.6	40.2
61	8.9	5.7	10.7

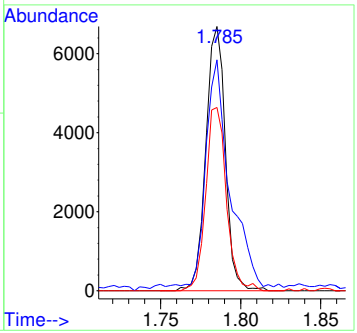


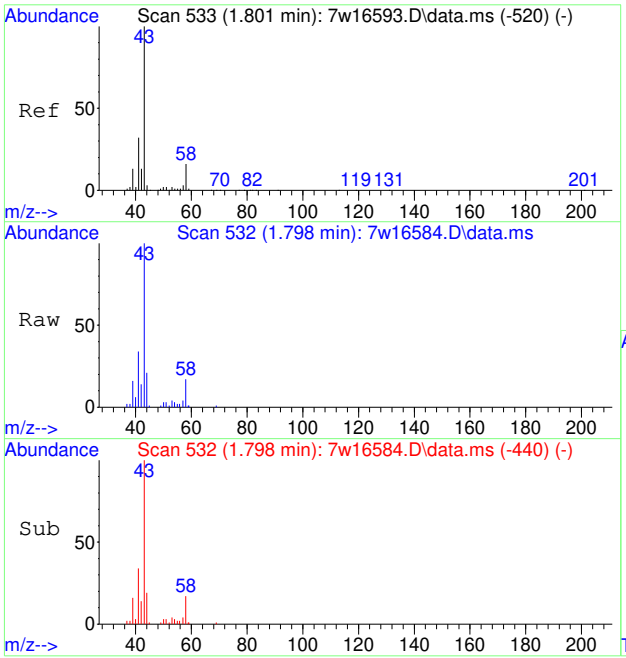


#12
1,3-BUTADIENE
Concen: 0.51 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 54 Resp: 5673

Ion	Ratio	Lower	Upper
54	100		
39	106.7	125.6	185.6#
53	73.4	40.7	100.7

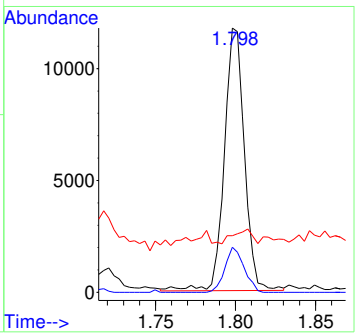


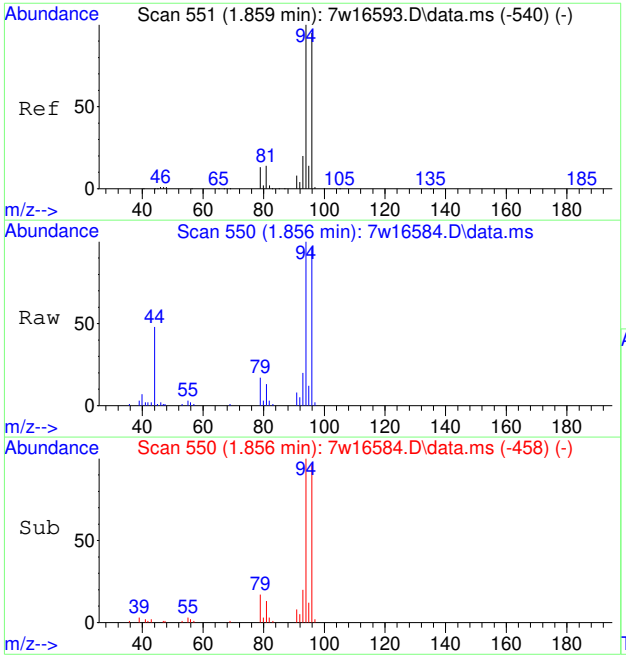


#13
N-BUTANE
Concen: 0.54 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 10254

Ion	Ratio	Lower	Upper
43	100		
58	16.4	10.4	19.4
44	24.5	3.0	5.6#

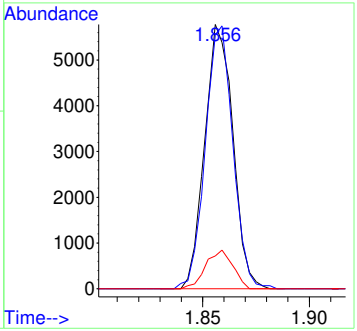


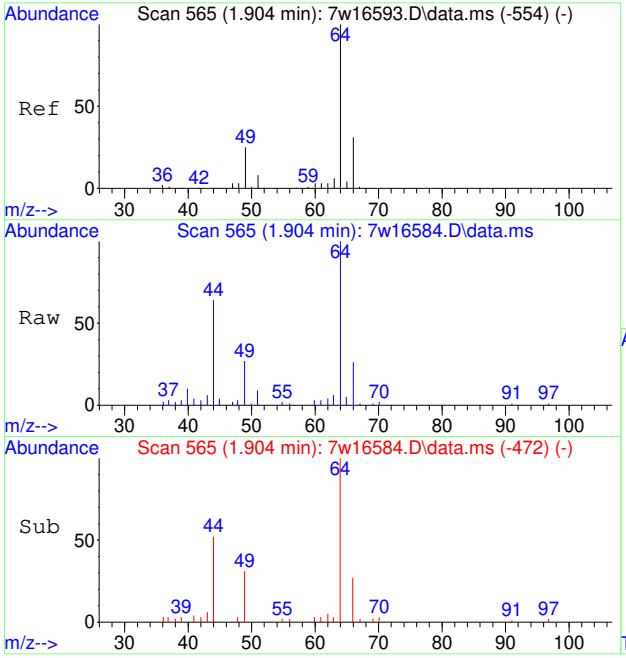


#14
BROMOMETHANE
Concen: 0.49 PPBV
RT: 1.856 min Scan# 550
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 94 Resp: 5311

Ion	Ratio	Lower	Upper
94	100		
96	97.2	63.6	118.0
95	14.2	10.0	18.6

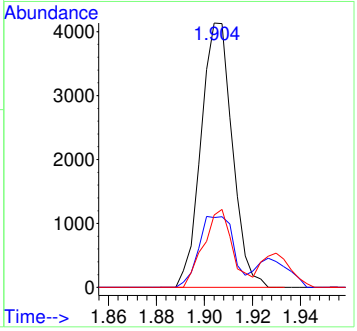


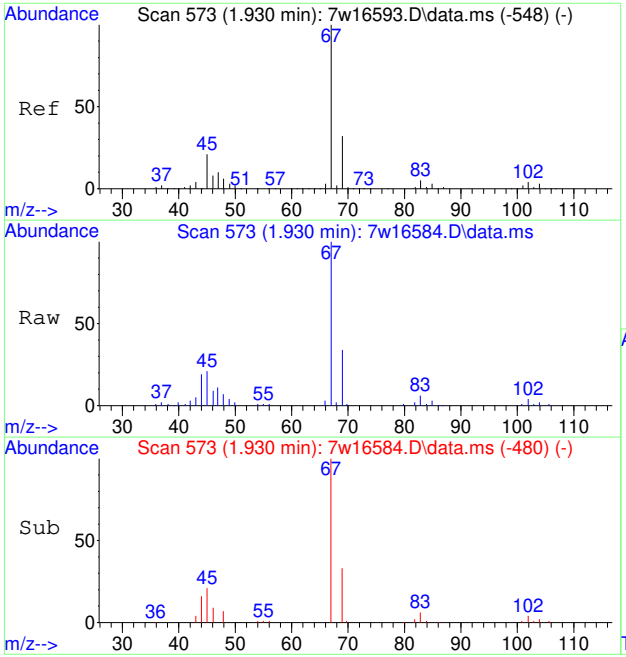


#15
CHLOROETHANE
Concen: 0.50 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 64 Resp: 3739

Ion	Ratio	Lower	Upper
64	100		
66	31.0	23.0	42.6
49	27.5	21.5	39.9

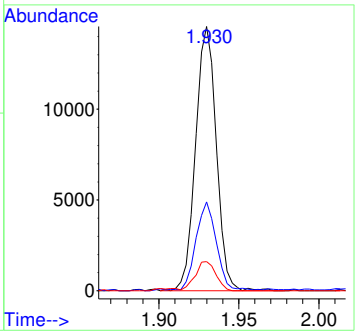


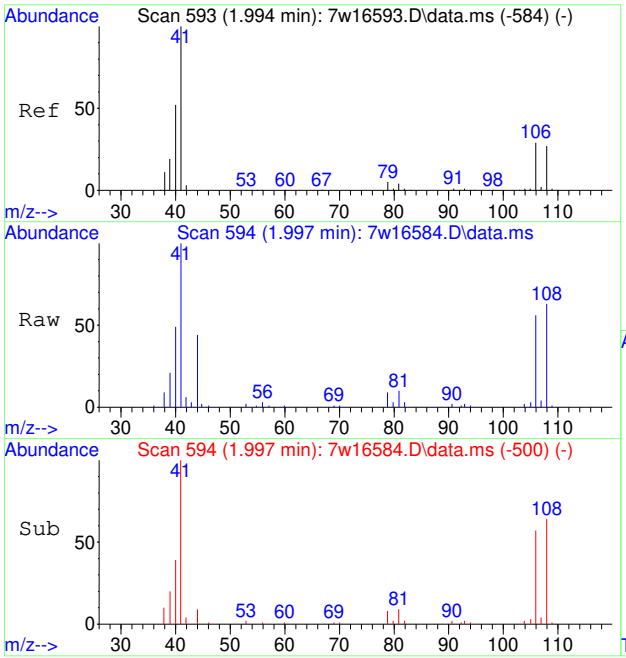


#16
DICHLOROFLUOROMETHANE
Concen: 0.49 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 13156

Ion	Ratio	Lower	Upper
67	100		
69	34.1	23.2	43.0
47	11.9	9.6	17.8

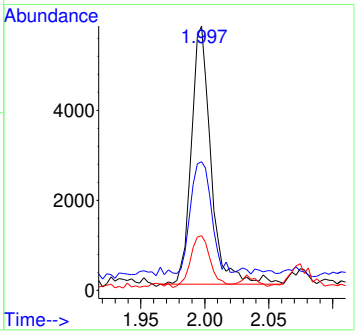


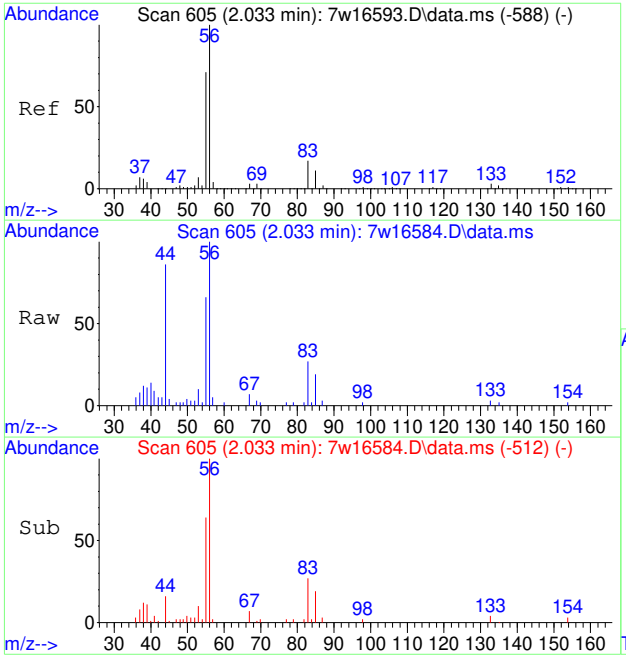


#17
ACETONITRILE
Concen: 0.52 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 6126

Ion	Ratio	Lower	Upper
41	100		
40	61.6	38.4	71.4
39	19.6	14.5	26.9

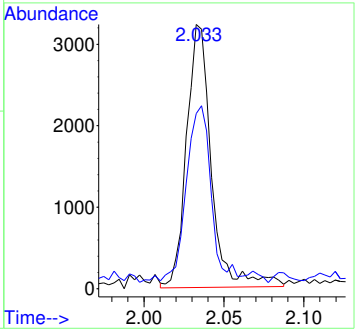


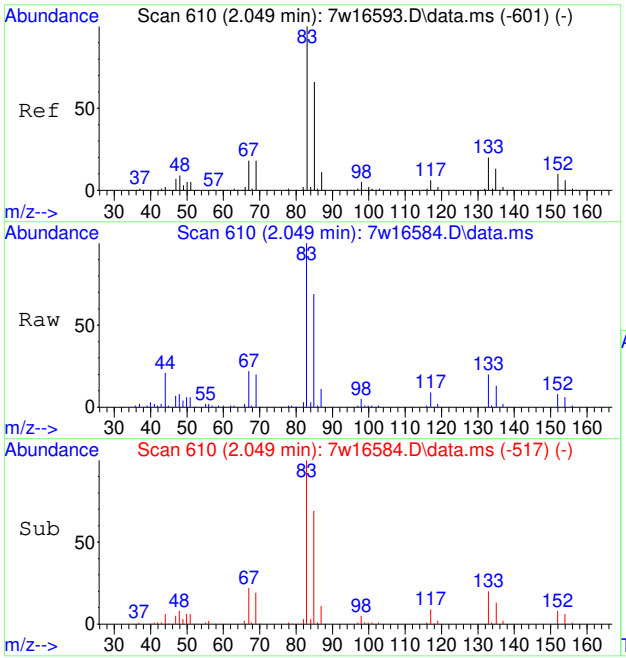


#18
ACROLEIN
Concen: 0.57 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 56 Resp: 3496

Ion	Ratio	Lower	Upper
56	100		
55	72.0	51.2	95.2

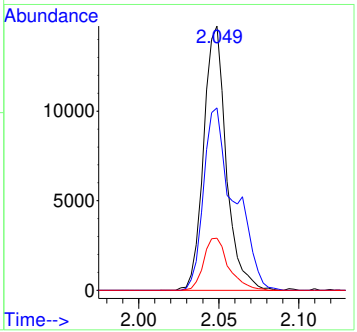


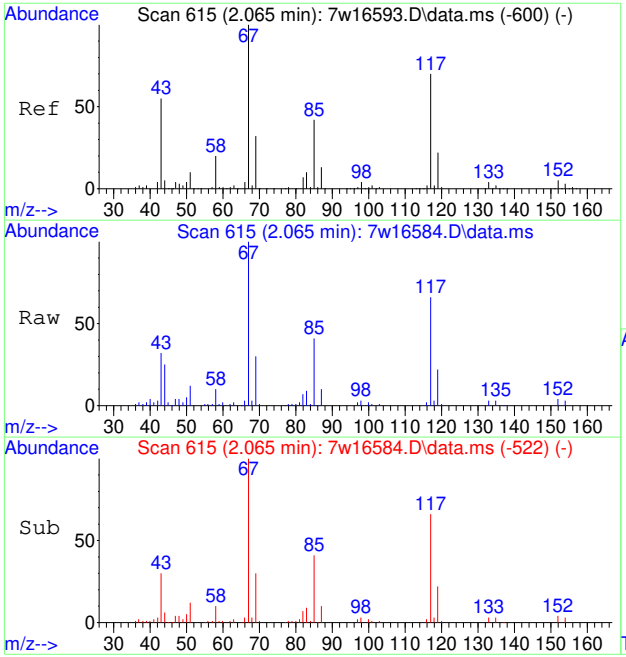


#19
FREON 123
Concen: 0.53 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14538

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.8	19.9	36.9

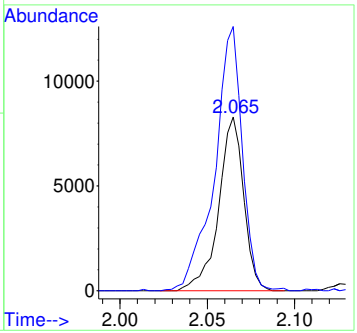


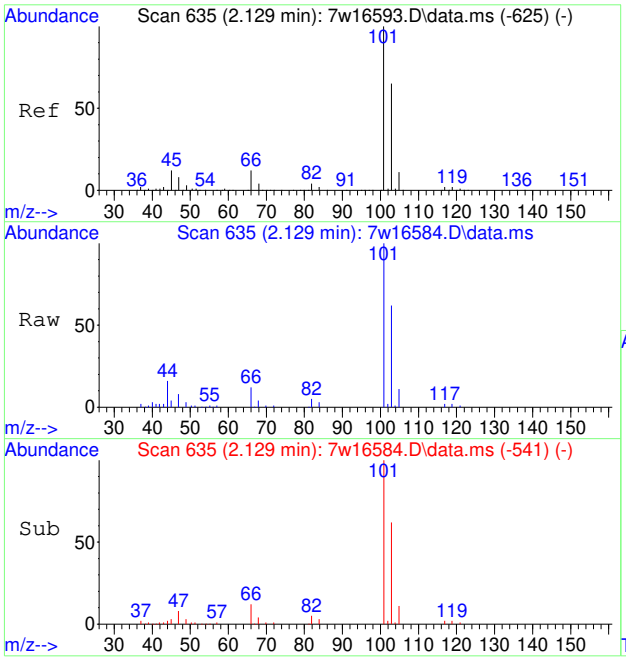


#20
FREON 123A
Concen: 0.51 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 8271

Ion	Ratio	Lower	Upper
117	100		
67	168.6	78.8	146.4#

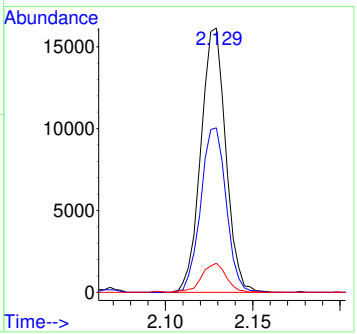


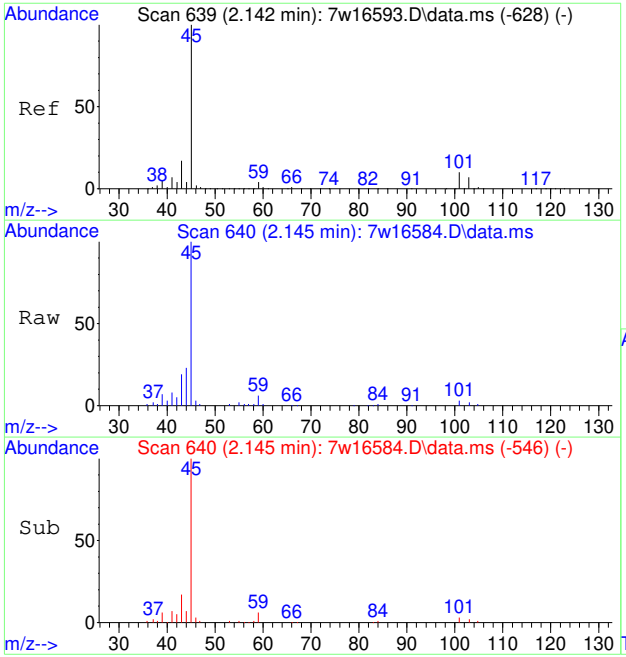


#21
TRICHLOROFLUOROMETHANE
Concen: 0.51 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:101 Resp: 16036

Ion	Ratio	Lower	Upper
101	100		
103	63.5	44.3	82.3
105	11.1	7.3	13.7

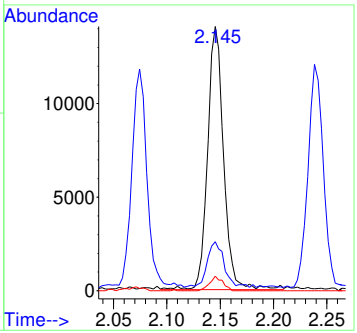


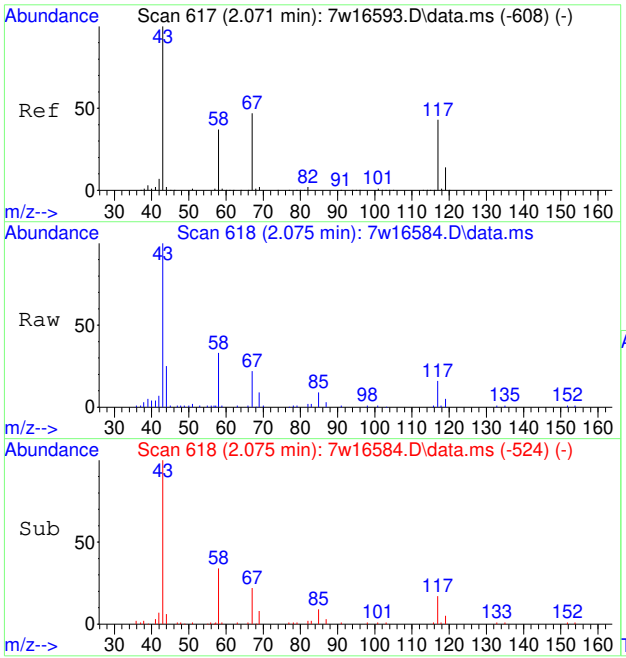


#22
ISOPROPYL ALCOHOL
Concen: 0.56 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 14702

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.5	3.1	5.8

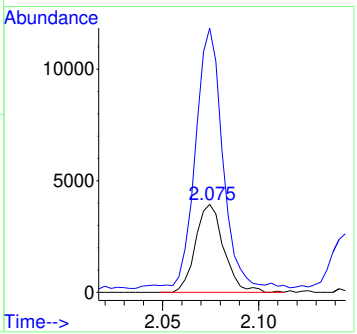


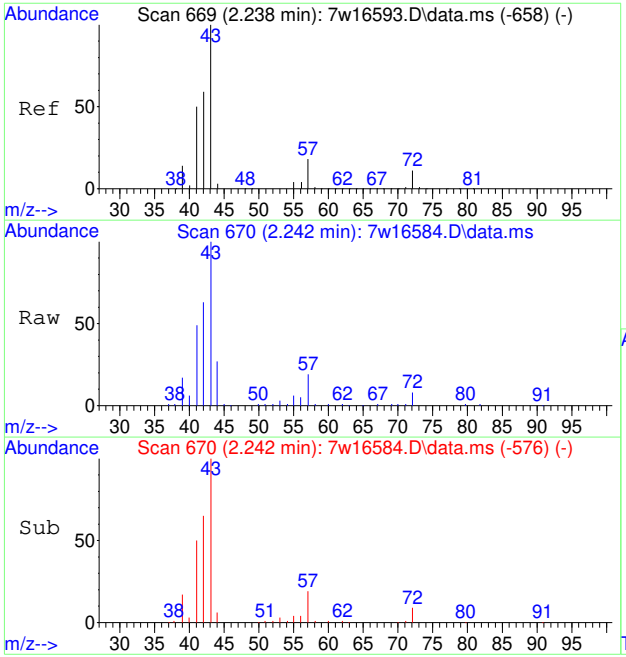


#23
ACETONE
Concen: 0.56 PPBV
RT: 2.075 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 4031

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

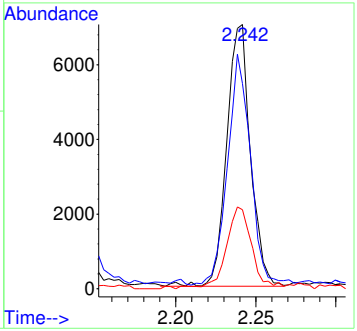


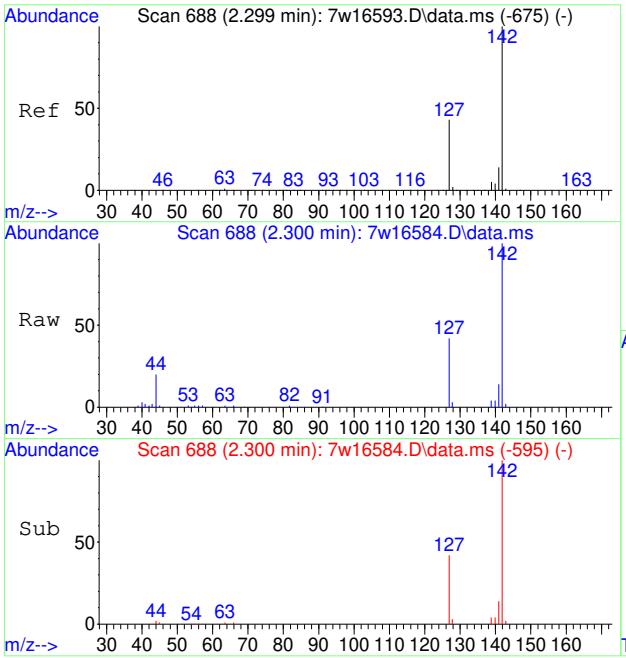


#24
PENTANE
Concen: 0.54 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 42 Resp: 7252

Ion	Ratio	Lower	Upper
42	100		
41	86.5	69.2	128.6
57	35.6	18.6	34.6#

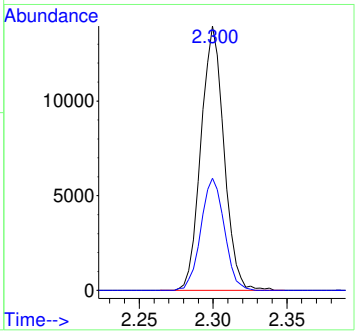


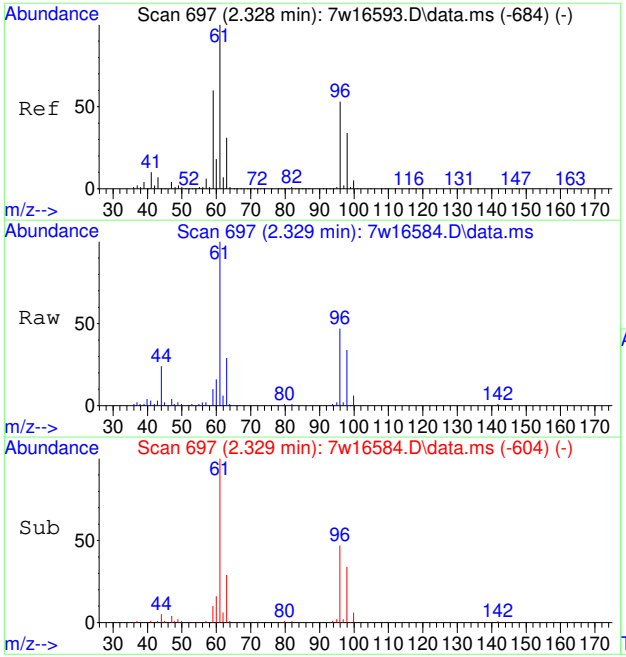


#25
IODOMETHANE
Concen: 0.52 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:142 Resp: 15067

Ion	Ratio	Lower	Upper
142	100		
127	43.2	32.1	59.7

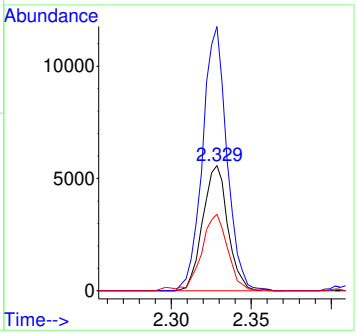


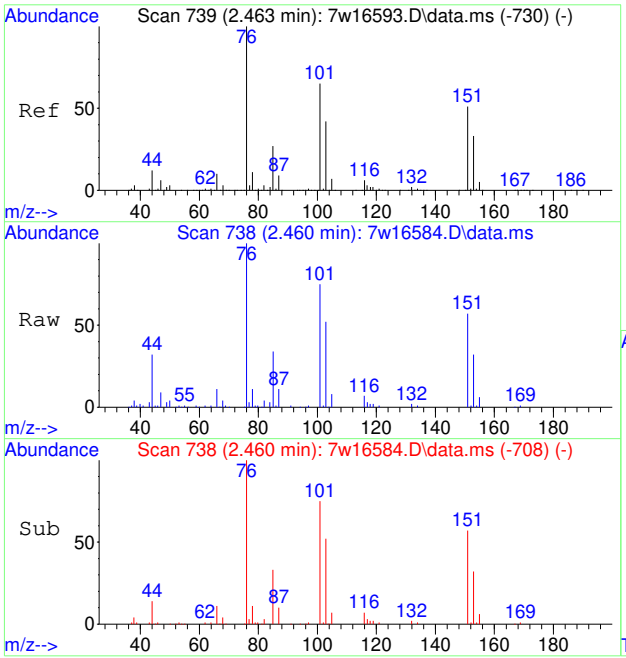


#26
1,1-DICHLOROETHYLENE
Concen: 0.52 PPBV
RT: 2.329 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6087

Ion	Ratio	Lower	Upper
96	100		
61	204.2	98.3	182.5#
63	64.2	33.2	61.7#

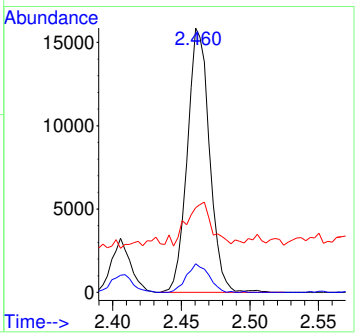


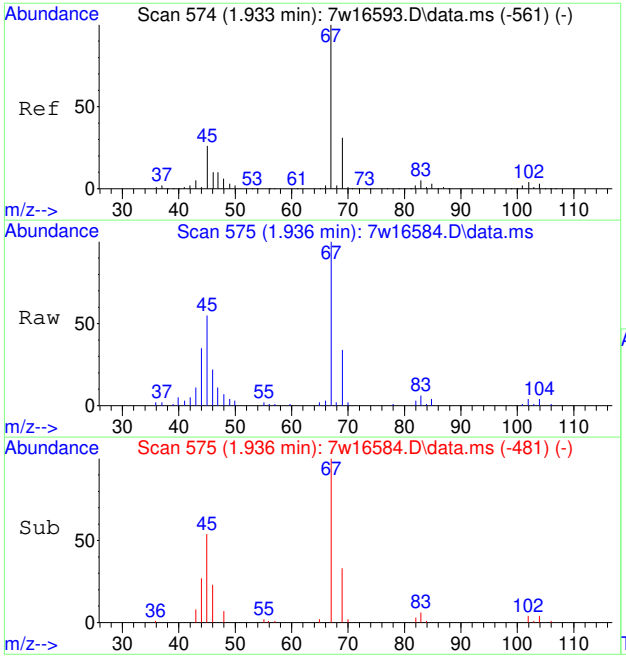


#27
CARBON DISULFIDE
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 17823

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	21.1	13.0	24.1

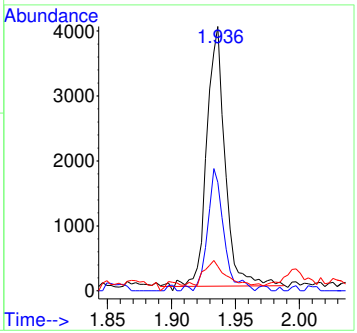


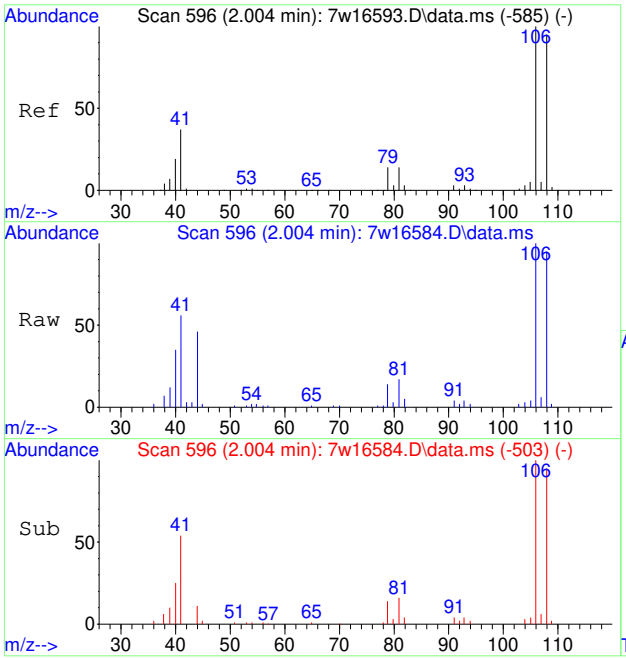


#28
ETHANOL
Concen: 0.60 PPBV
RT: 1.936 min Scan# 575
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 3995

Ion	Ratio	Lower	Upper
45	100		
46	43.2	29.7	55.1
42	19.9	7.3	13.5#

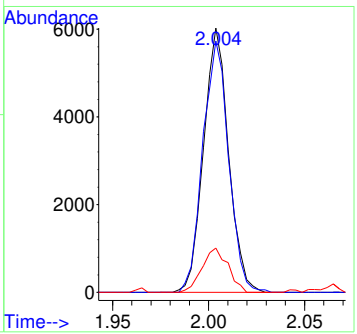


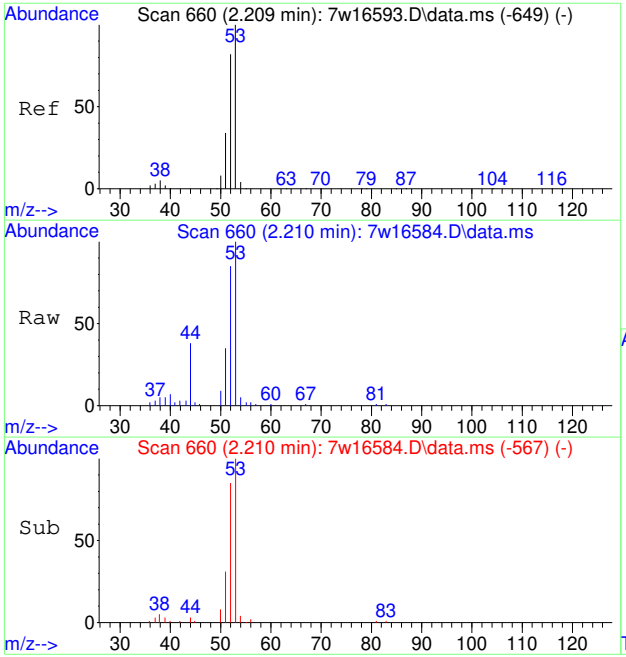


#29
BROMOETHENE
Concen: 0.48 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:106 Resp: 5459

Ion	Ratio	Lower	Upper
106	100		
108	98.1	68.3	126.8
81	17.4	14.7	27.3

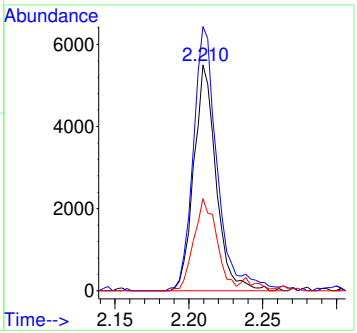


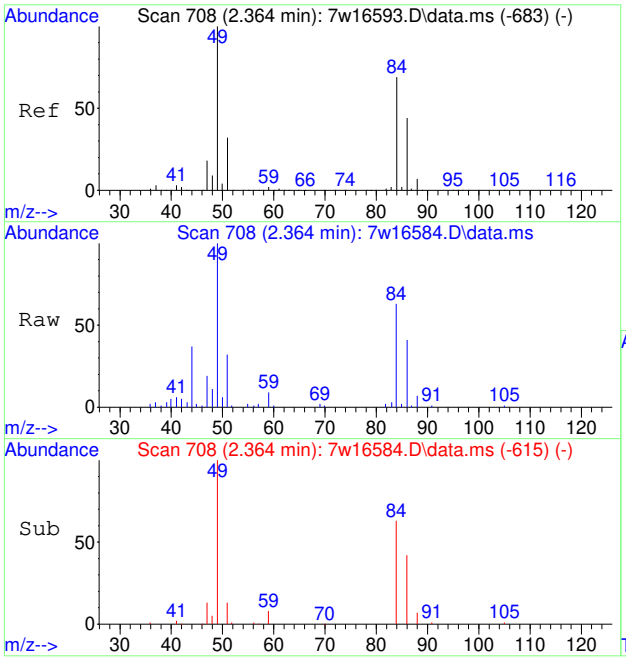


#30
ACRYLONITRILE
Concen: 0.58 PPBV
RT: 2.210 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 5767

Ion	Ratio	Lower	Upper
52	100		
53	126.8	86.3	160.3
51	41.9	33.6	62.4

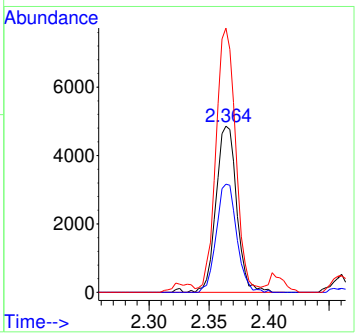


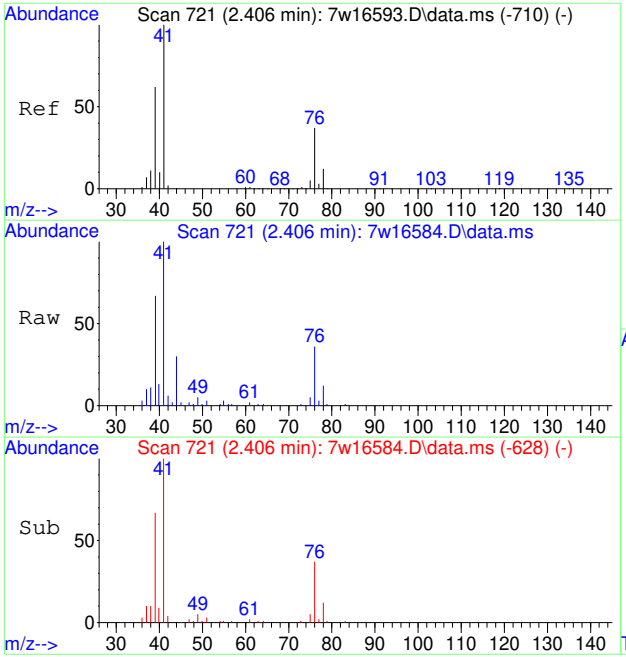


#31
METHYLENE CHLORIDE
Concen: 0.53 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 5842

Ion	Ratio	Lower	Upper
84	100		
86	64.4	44.9	83.5
49	156.9	79.7	148.1#

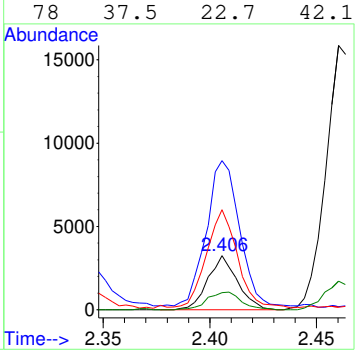


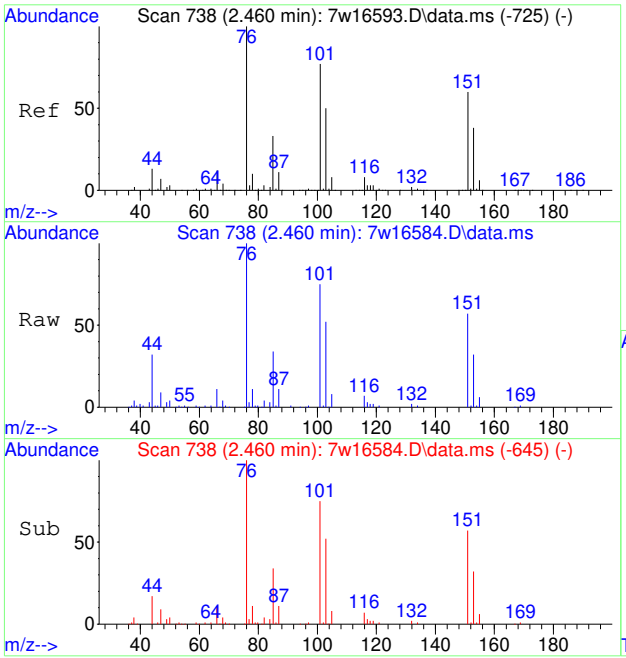


#32
3-CHLOROPROPENE
Concen: 0.50 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 3137

Ion	Ratio	Lower	Upper
76	100		
41	305.0	160.9	298.9#
39	194.1	150.7	279.9
78	37.5	22.7	42.1

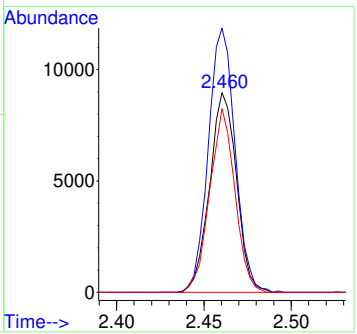


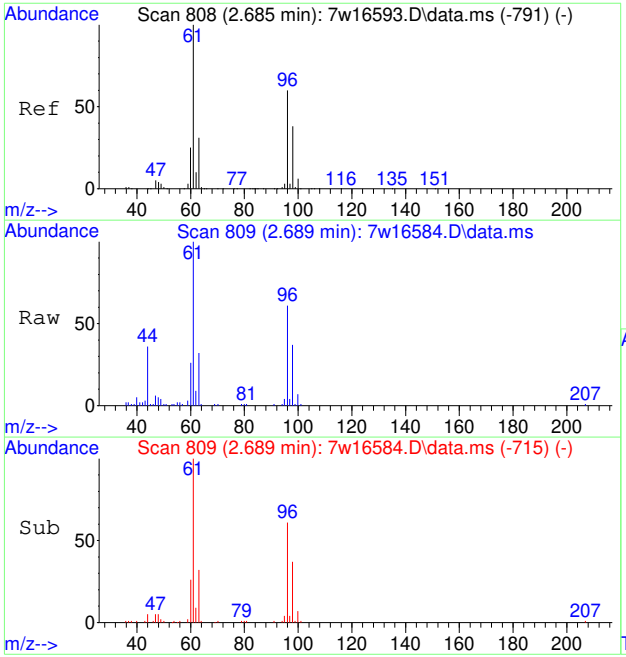


#33
FREON 113
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:151 Resp: 9645

Ion	Ratio	Lower	Upper
151	100		
101	131.3	81.1	150.7
103	86.0	51.4	95.4

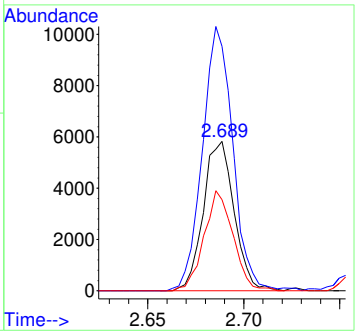


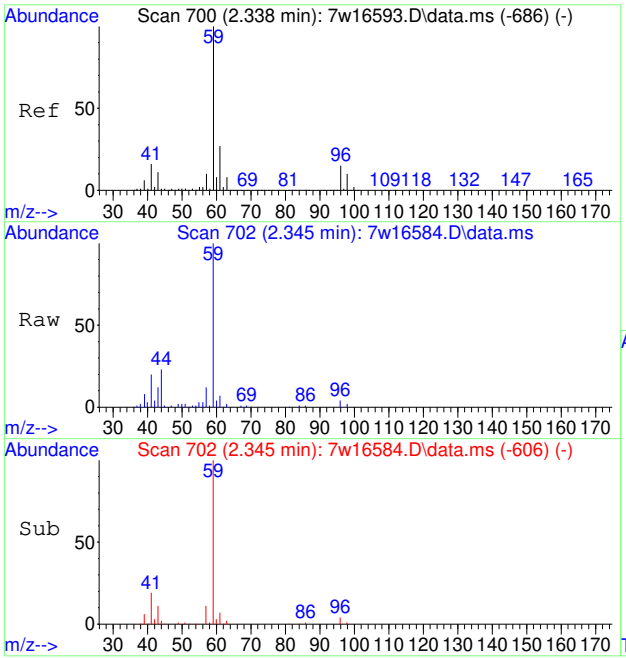


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6513

Ion	Ratio	Lower	Upper
96	100		
61	175.4	78.5	145.9#
98	63.1	46.5	86.3

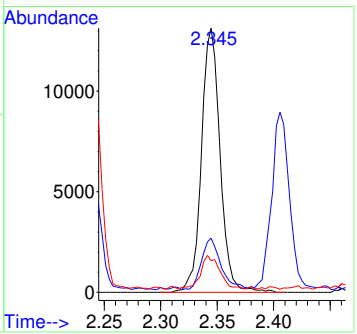


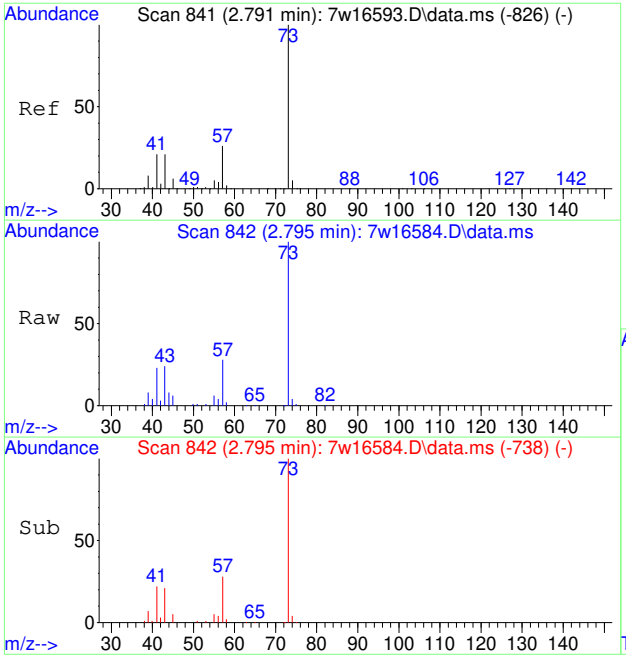


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.47 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 15020

Ion	Ratio	Lower	Upper
59	100		
41	20.4	15.3	28.5
43	12.8	12.3	22.9

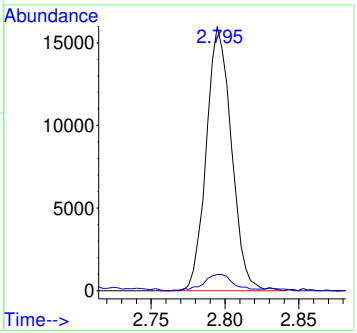


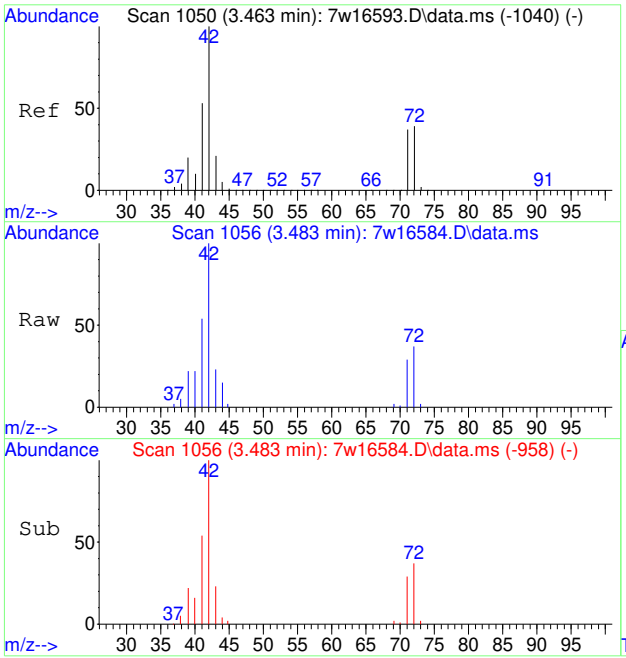


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.52 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 73 Resp: 18863

Ion	Ratio	Lower	Upper
73	100		
45	8.1	3.4	6.4#

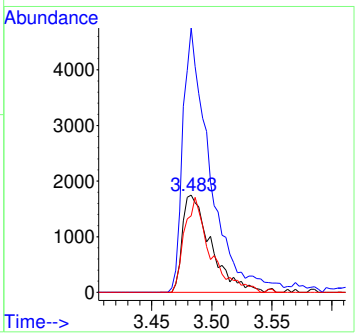


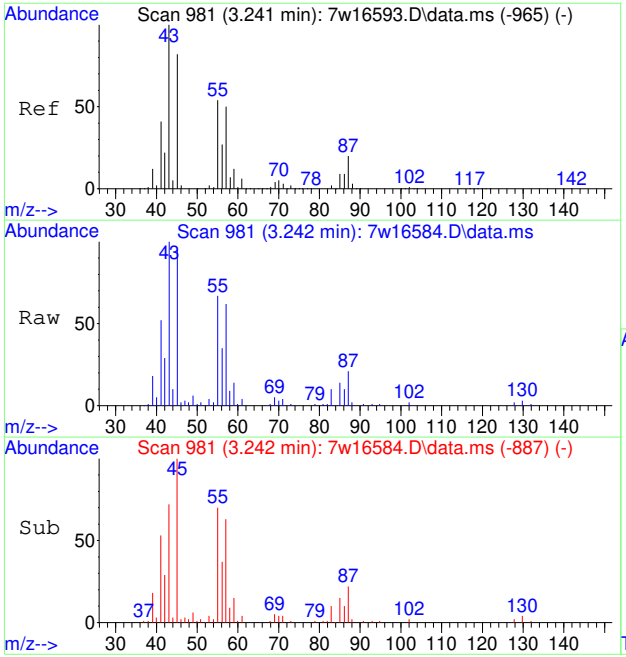


#37
TETRAHYDROFURAN
Concen: 0.48 PPBV
RT: 3.483 min Scan# 1056
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 2906

Ion	Ratio	Lower	Upper
72	100		
42	264.6	153.0	284.2
71	88.4	62.7	116.5

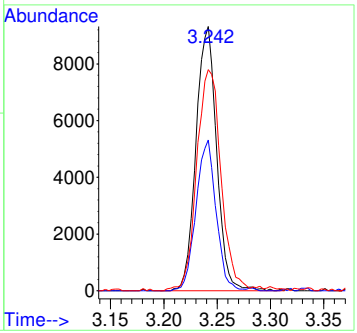


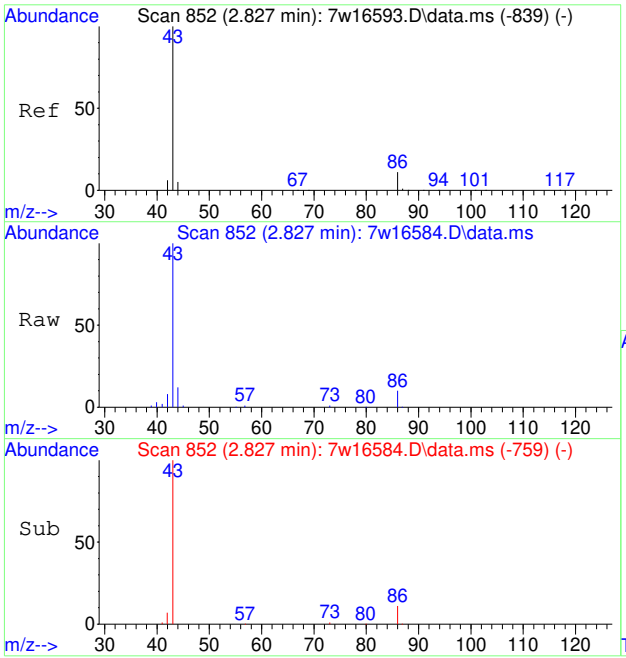


#38
HEXANE
Concen: 0.52 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 12572

Ion	Ratio	Lower	Upper
57	100		
56	55.7	37.3	69.3
41	98.4	86.7	161.1

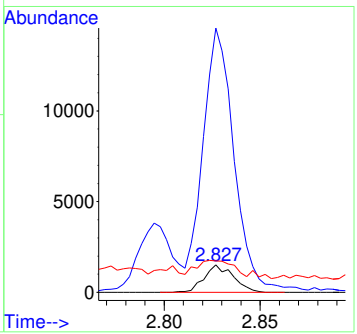


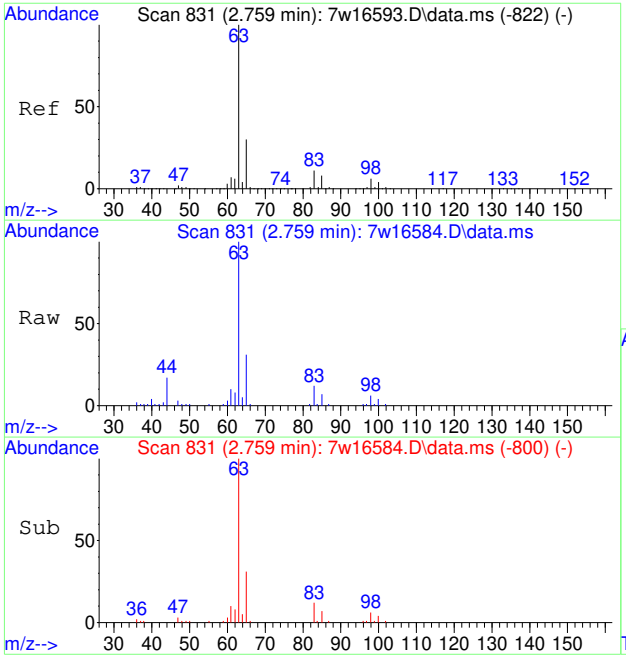


#39
VINYL ACETATE
Concen: 0.45 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 86 Resp: 1605

Ion	Ratio	Lower	Upper
86	100		
43	1019.3	667.9	1240.3
44	95.6	32.7	60.7#

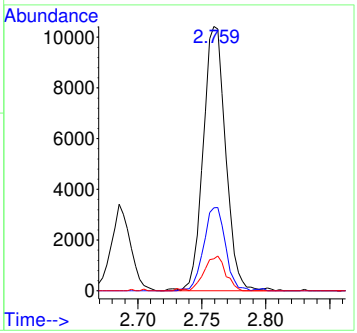


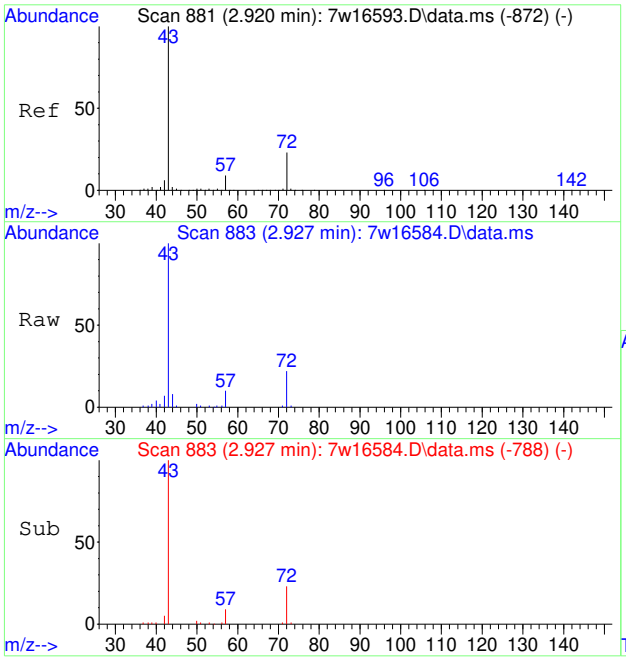


#40
1,1-DICHLOROETHANE
Concen: 0.50 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 12723

Ion	Ratio	Lower	Upper
63	100		
65	30.9	21.8	40.6
83	12.8	10.6	19.6

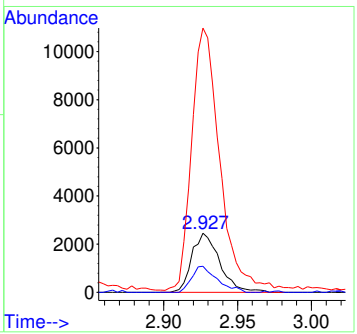


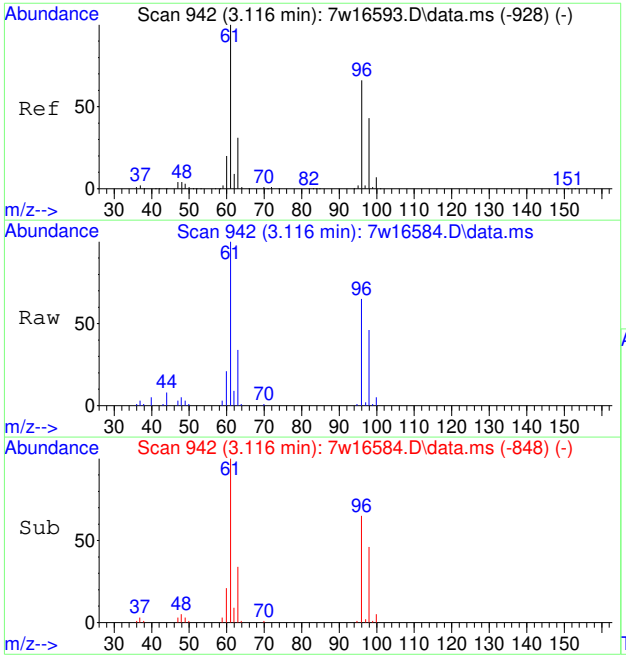


#41
METHYL ETHYL KETONE
Concen: 0.49 PPBV
RT: 2.927 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 3223

Ion	Ratio	Lower	Upper
72	100		
57	40.2	20.3	37.7#
43	453.6	282.8	525.2

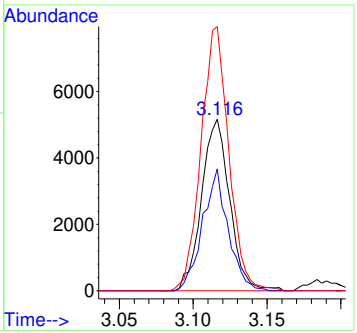


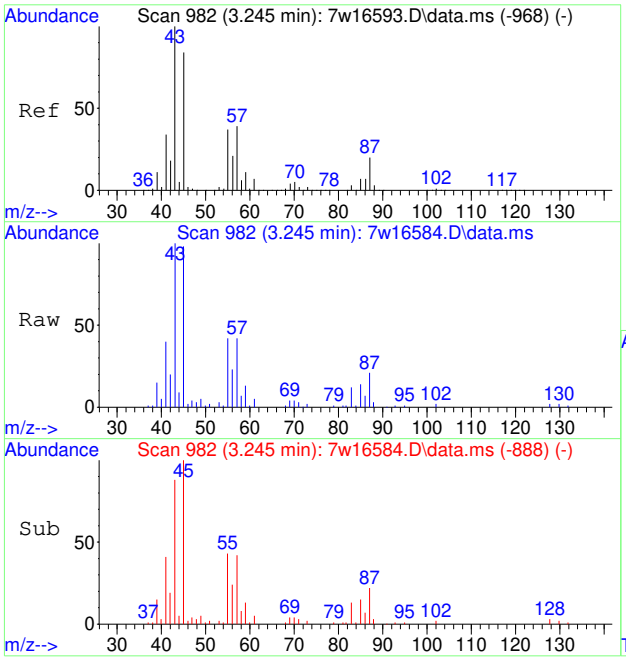


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6837

Ion	Ratio	Lower	Upper
96	100		
98	64.4	46.8	86.8
61	152.1	78.3	145.5#

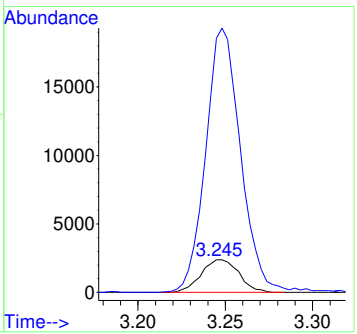


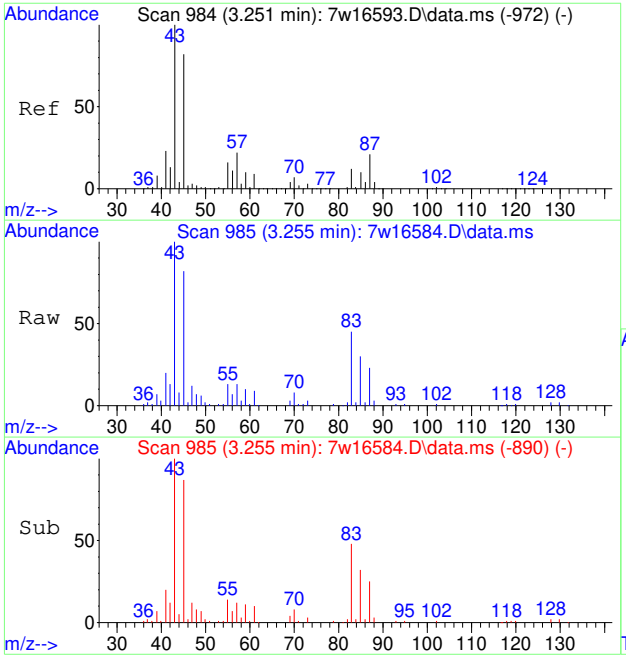


#43
DIISOPROPYL ETHER
Concen: 0.51 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 3577

Ion	Ratio	Lower	Upper
59	100		
45	758.7	532.1	988.1

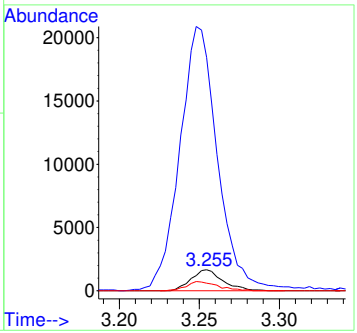


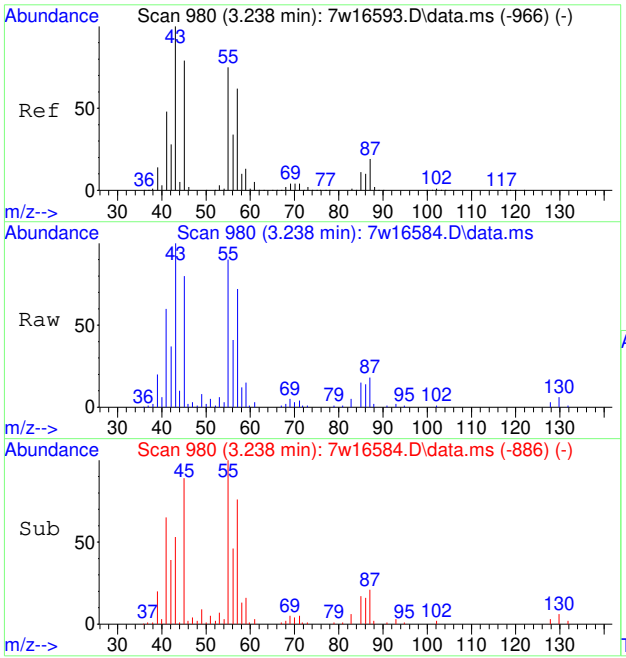


#44
ETHYL ACETATE
Concen: 0.47 PPBV
RT: 3.255 min Scan# 985
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 61 Resp: 2292

Ion	Ratio	Lower	Upper
61	100		
43	1515.1	1127.5	2093.9
88	43.9	36.2	67.2

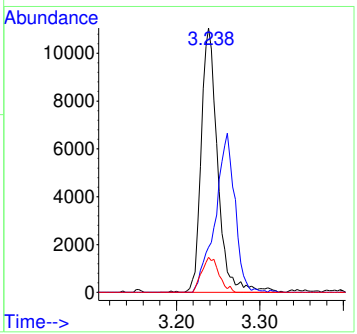


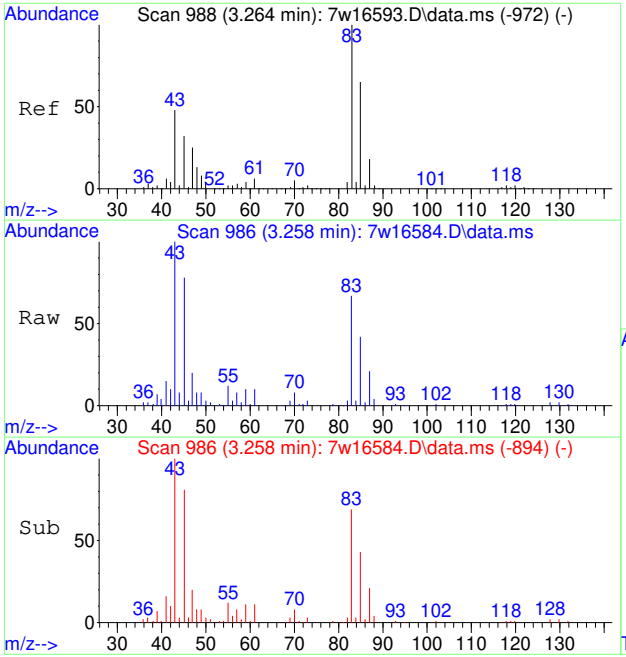


#45
METHYL ACRYLATE
Concen: 0.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 15089

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

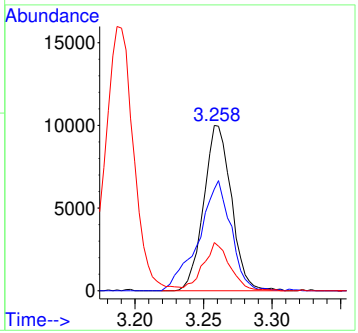


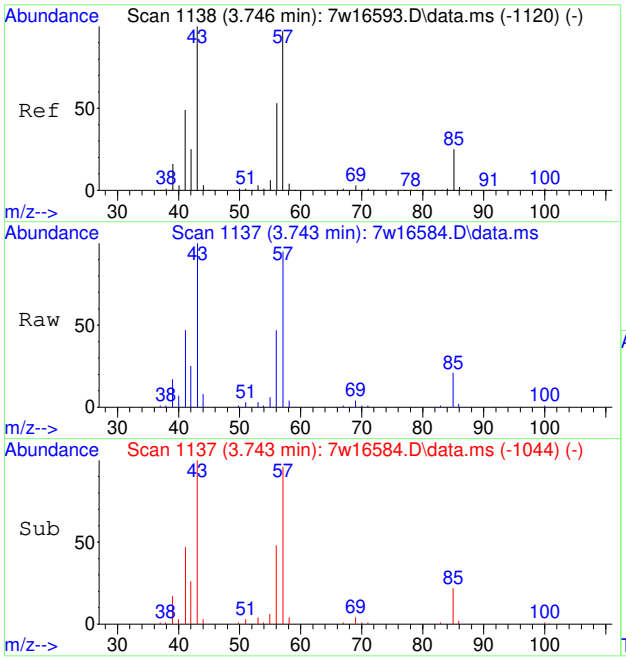


#46
CHLOROFORM
Concen: 0.53 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14039

Ion	Ratio	Lower	Upper
83	100		
85	78.2	54.6	101.4
47	28.4	17.9	33.3

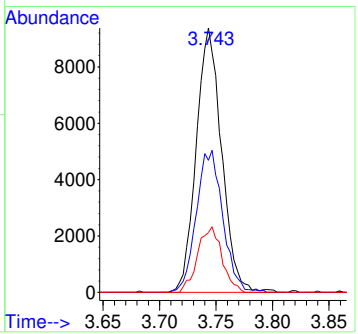


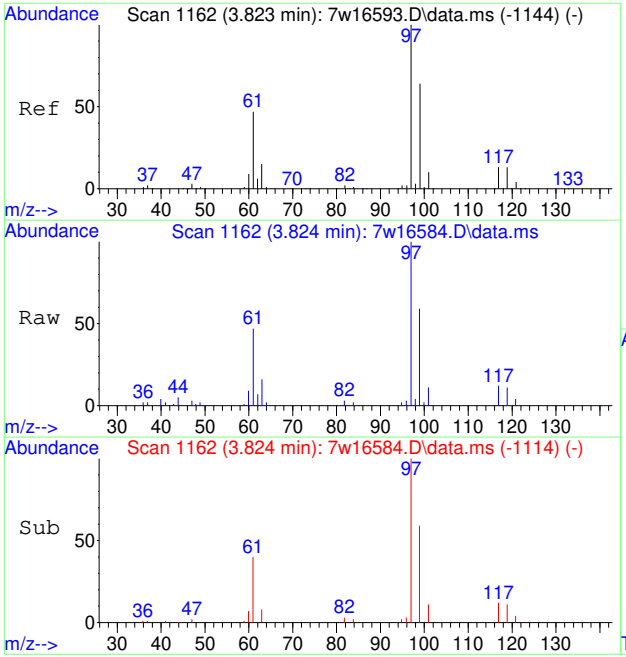


#47
2,4-DIMETHYLPENTANE
Concen: 0.53 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 14638

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	23.7	24.1	44.7#

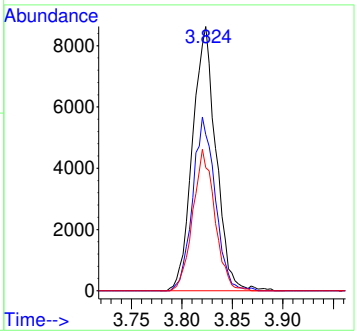


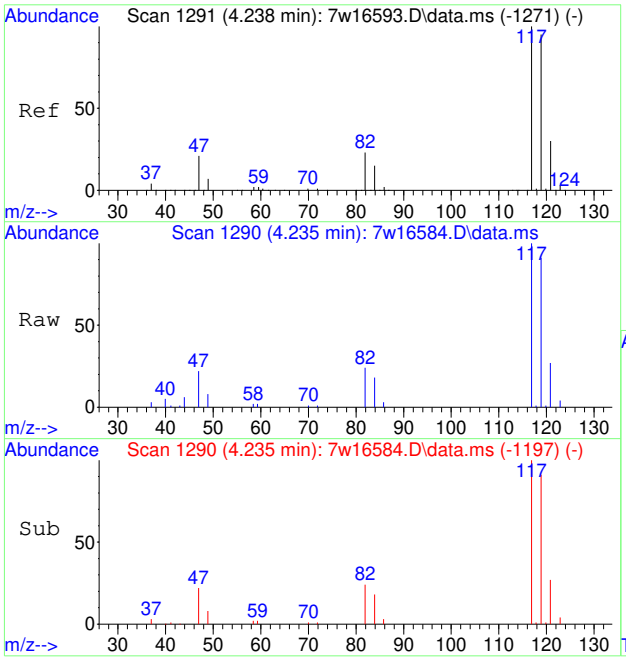


#48
1,1,1-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 97 Resp: 13952

Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.9	83.5
61	50.0	28.6	53.0

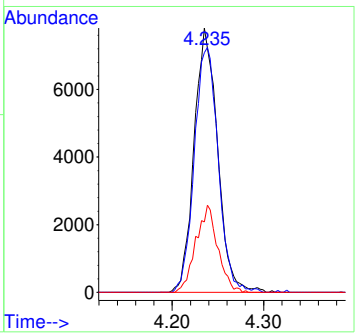


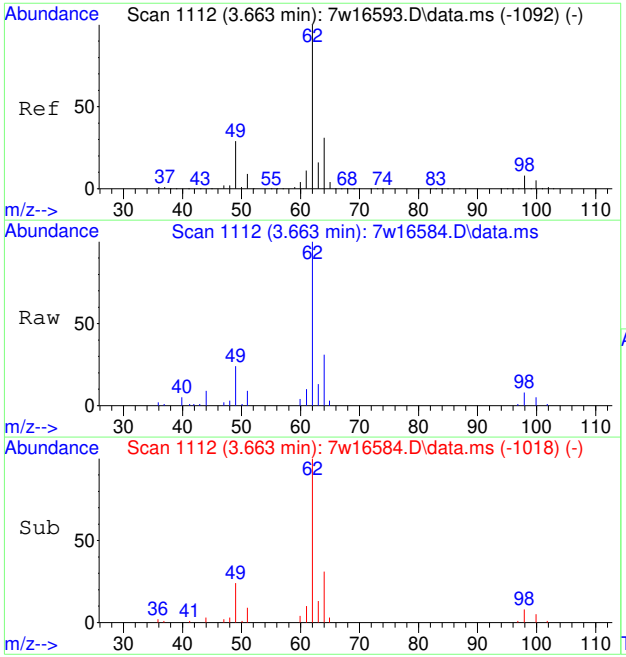


#49
CARBON TETRACHLORIDE
Concen: 0.47 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 13931

Ion	Ratio	Lower	Upper
117	100		
119	94.6	68.8	127.8
121	30.7	22.2	41.2

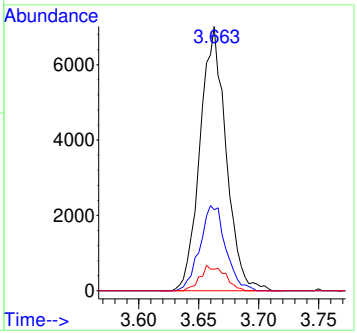


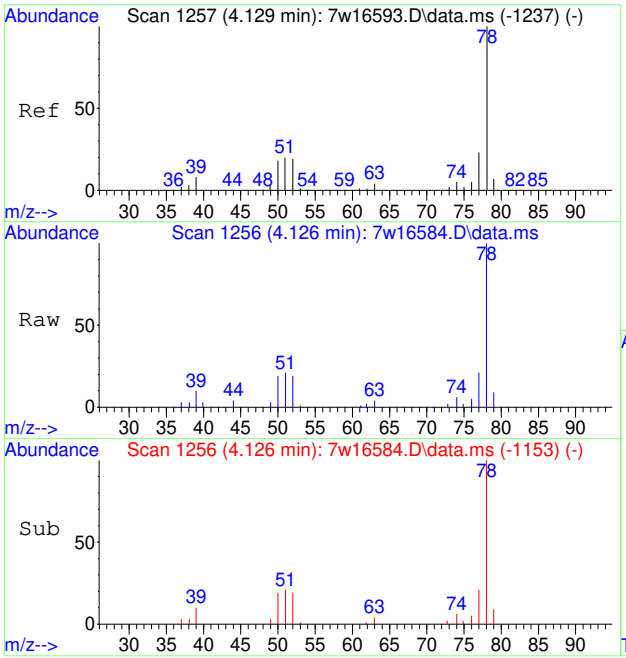


#50
1,2-DICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 10566

Ion	Ratio	Lower	Upper
62	100		
64	32.0	22.5	41.7
98	9.0	6.8	12.6

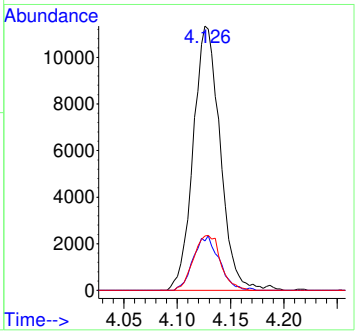


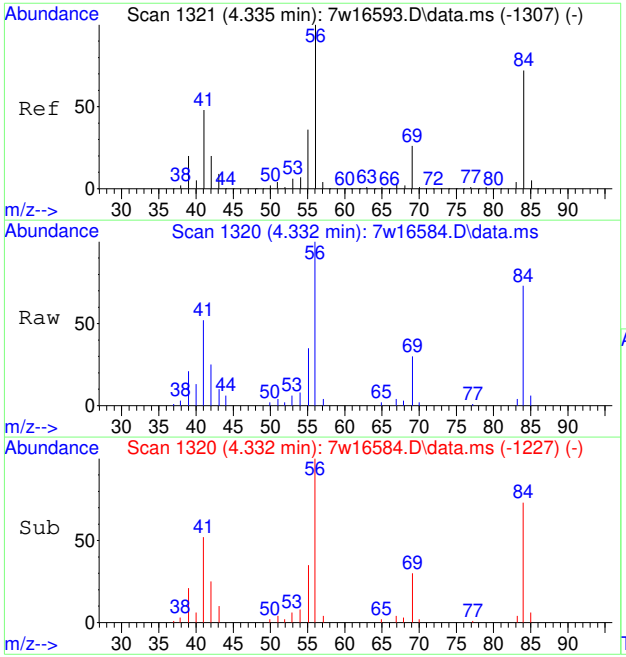


#51
BENZENE
Concen: 0.51 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 78 Resp: 19953

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	44.6
51	20.9	0.0	47.3

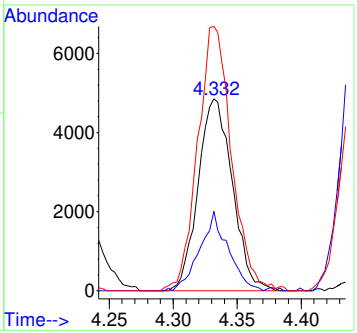


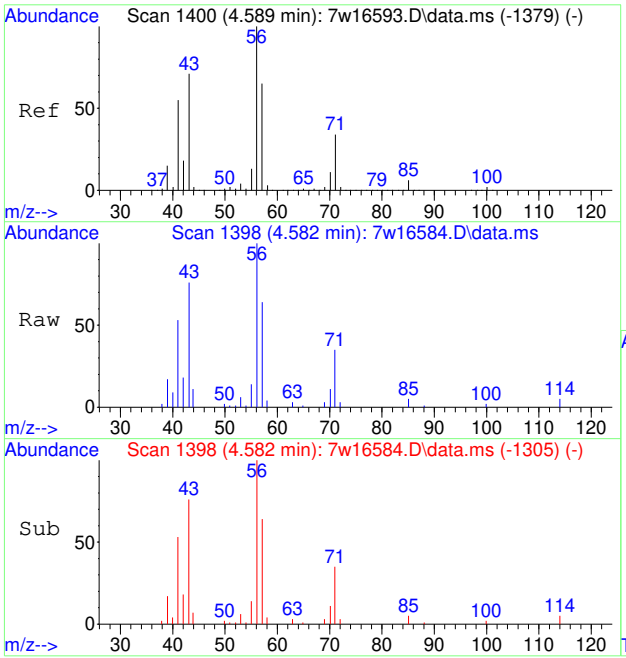


#53
CYCLOHEXANE
Concen: 0.51 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 9049

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	136.0	70.2	130.4#

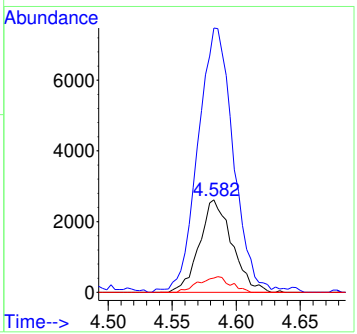


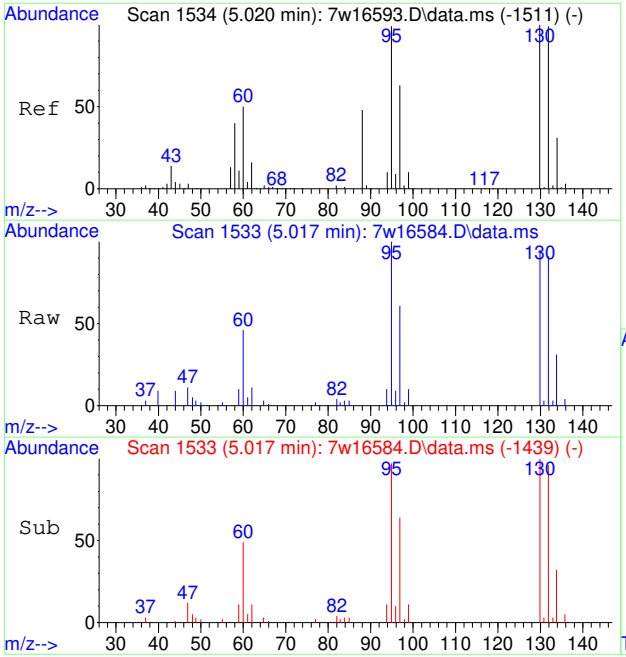


#54
2,3-DIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 71 Resp: 4648

Ion	Ratio	Lower	Upper
71	100		
56	311.5	171.4	318.4
85	16.7	12.6	23.4

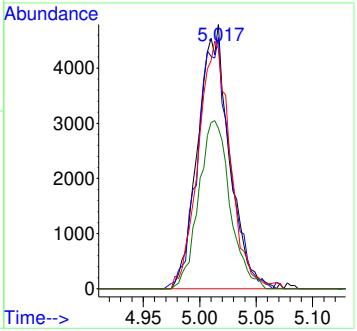


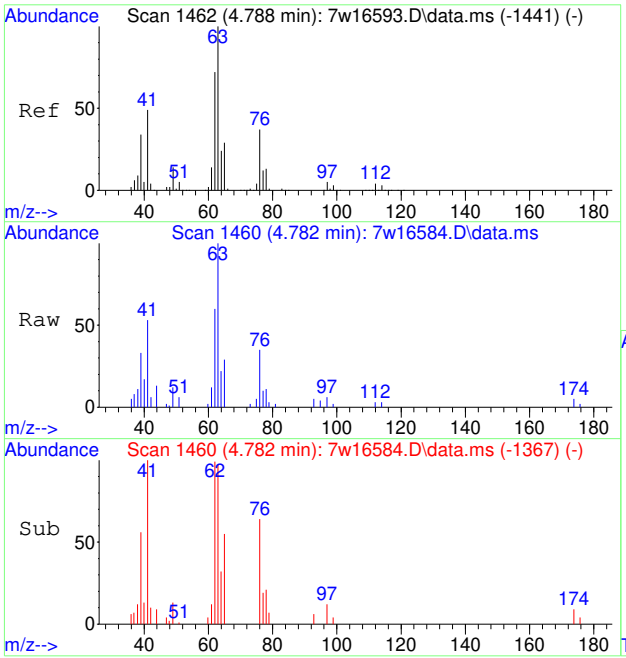


#55
TRICHLOROETHENE
Concen: 0.49 PPBV
RT: 5.017 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 95 Resp: 9226

Ion	Ratio	Lower	Upper
95	100		
130	97.8	85.9	159.5
132	95.6	79.4	147.4
97	63.7	45.0	83.6

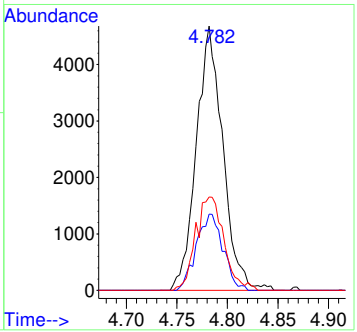


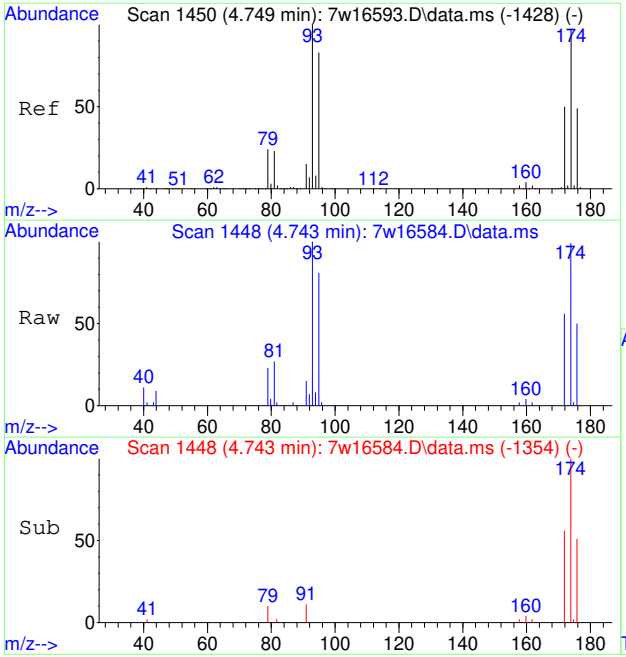


#56
1,2-DICHLOROPROPANE
Concen: 0.51 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 8549

Ion	Ratio	Lower	Upper
63	100		
65	29.1	22.6	42.0
76	37.7	31.8	59.0

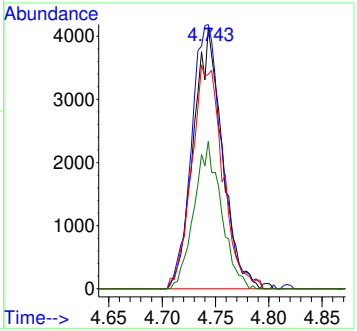


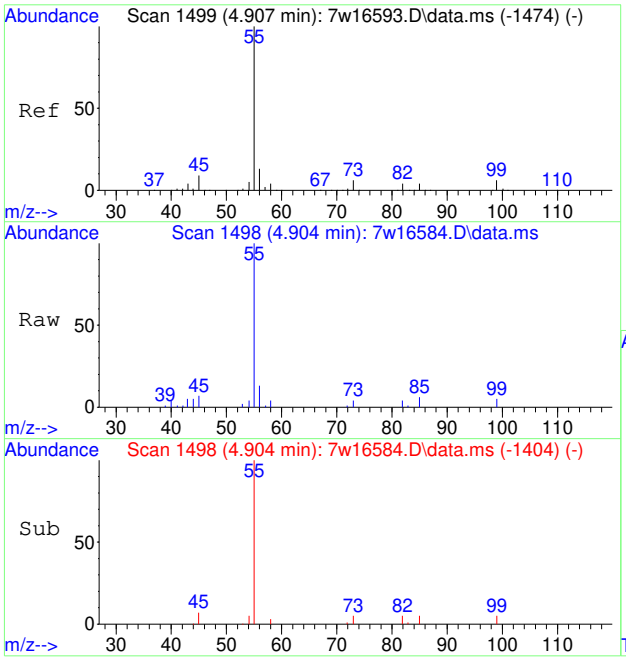


#57
DIBROMOMETHANE
Concen: 0.51 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:174 Resp: 7819

Ion	Ratio	Lower	Upper
174	100		
93	106.5	67.3	125.1
95	91.9	56.8	105.6
172	52.9	36.3	67.5

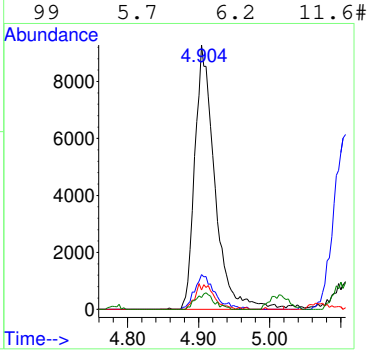


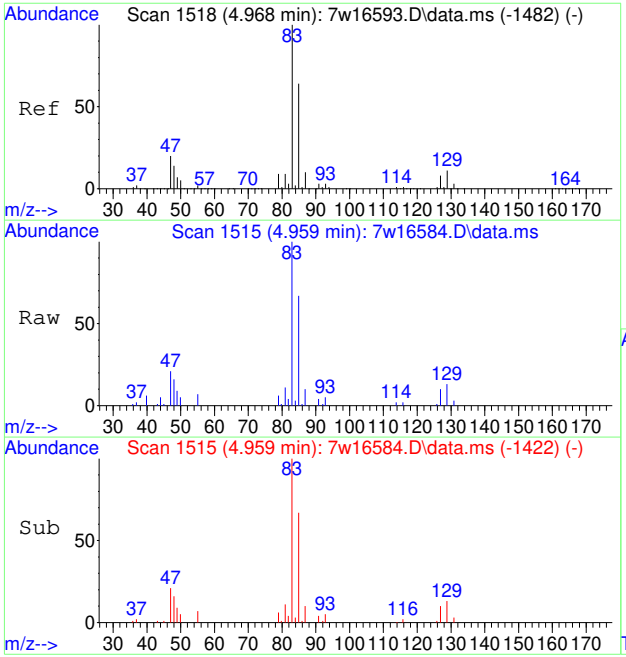


#58
ETHYL ACRYLATE
Concen: 0.48 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 18149

Ion	Ratio	Lower	Upper
55	100		
56	13.3	7.9	14.7
45	9.0	6.6	12.2
99	5.7	6.2	11.6#

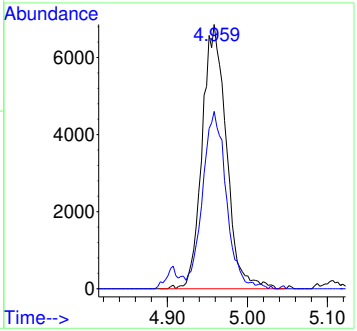


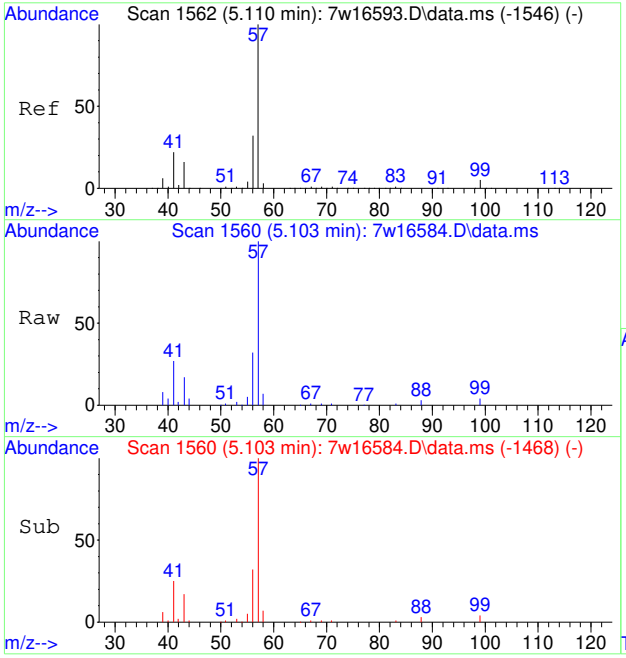


#59
BROMODICHLOROMETHANE
Concen: 0.46 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14412

Ion	Ratio	Lower	Upper
83	100		
85	65.8	44.9	83.5

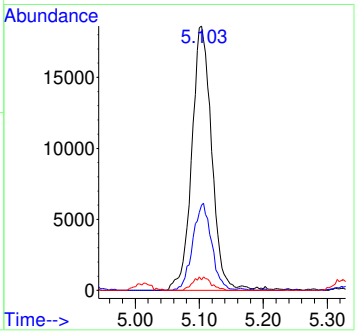


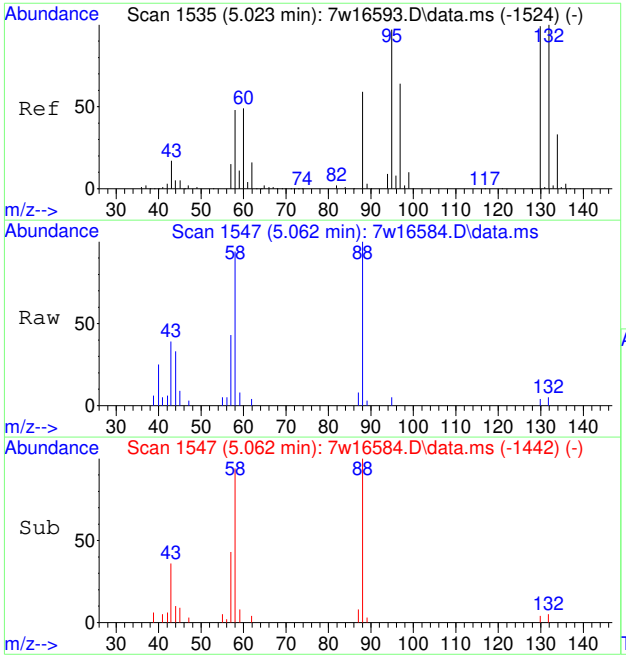


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 40435

Ion	Ratio	Lower	Upper
57	100		
56	31.0	24.4	45.2
99	4.6	5.2	9.6#

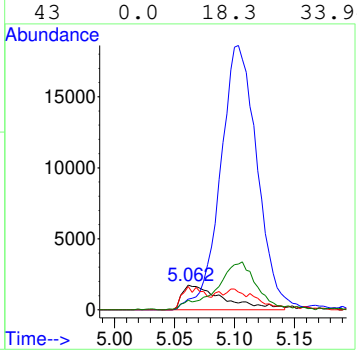


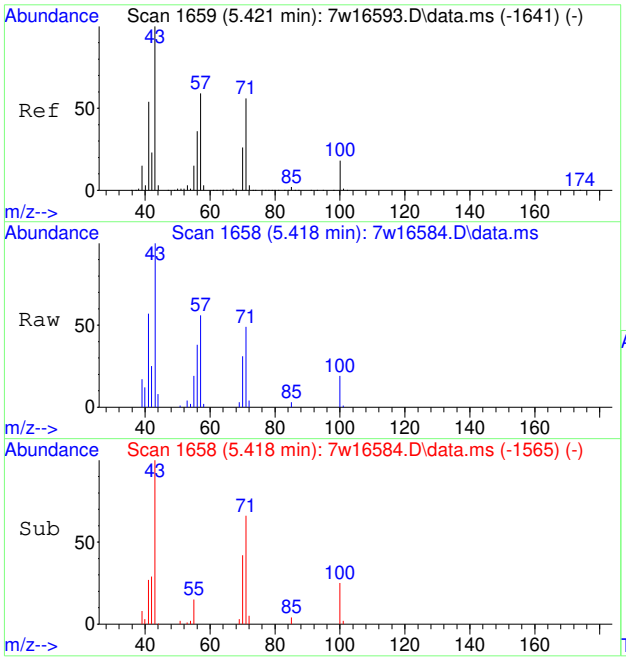


#61
1,4-DIOXANE
Concen: 0.45 PPBV
RT: 5.062 min Scan# 1547
Delta R.T. 0.039 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 88 Resp: 4245

Ion	Ratio	Lower	Upper
88	100		
57	0.0	13.1	24.3#
58	47.1	39.1	72.5
43	0.0	18.3	33.9#

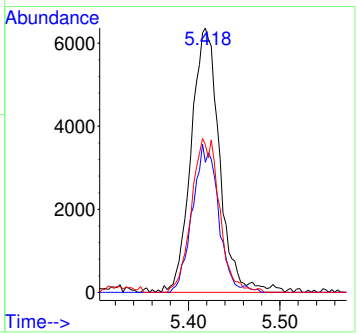


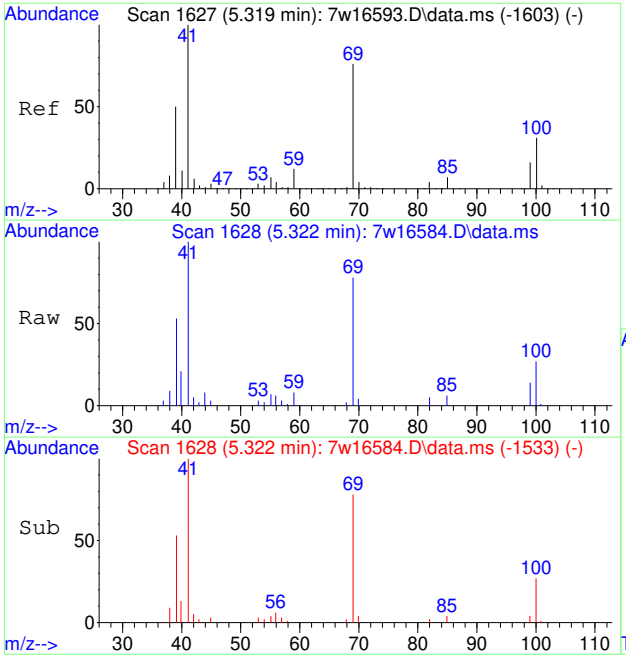


#62
HEPTANE
Concen: 0.52 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 13738

Ion	Ratio	Lower	Upper
43	100		
71	51.3	45.0	83.6
57	57.2	37.2	69.0

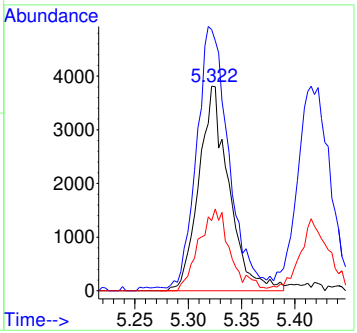


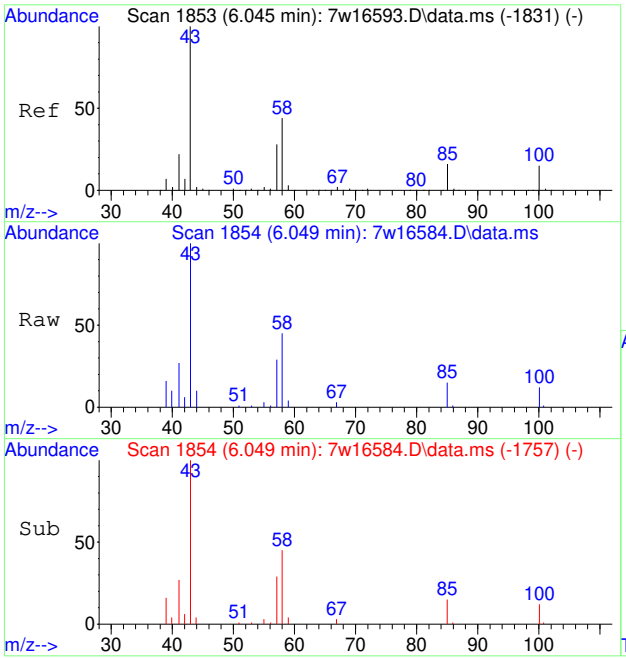


#63
METHYL METHACRYLATE
Concen: 0.49 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 7482

Ion	Ratio	Lower	Upper
69	100		
41	138.4	84.3	156.5
100	41.6	30.8	57.2

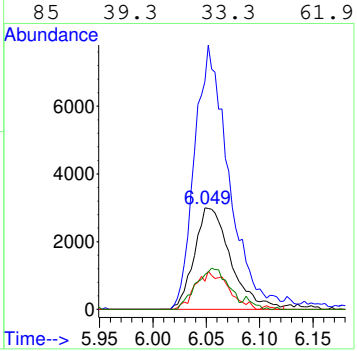


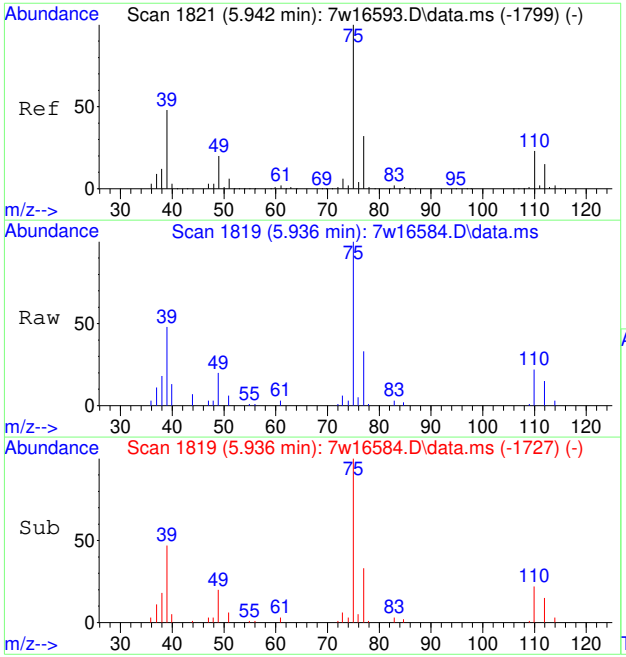


#64
METHYL ISOBUTYL KETONE
Concen: 0.46 PPBV
RT: 6.049 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 7119

Ion	Ratio	Lower	Upper
58	100		
43	253.5	193.8	360.0
100	34.7	32.8	60.8
85	39.3	33.3	61.9

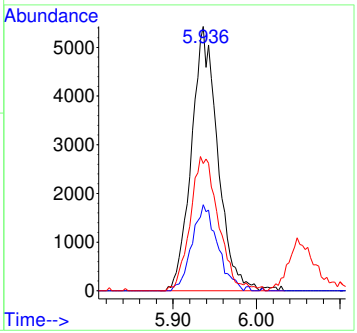


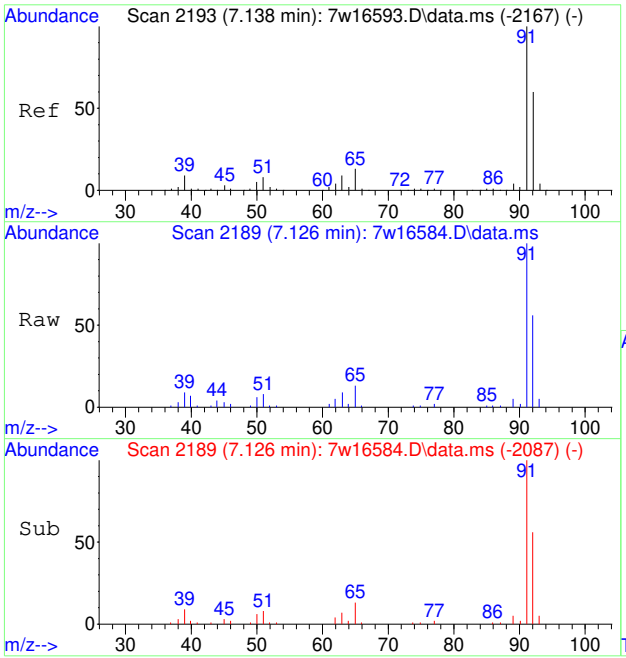


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.45 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 11946

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.0	40.8
39	54.5	38.5	71.5

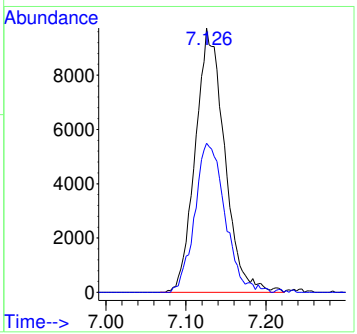


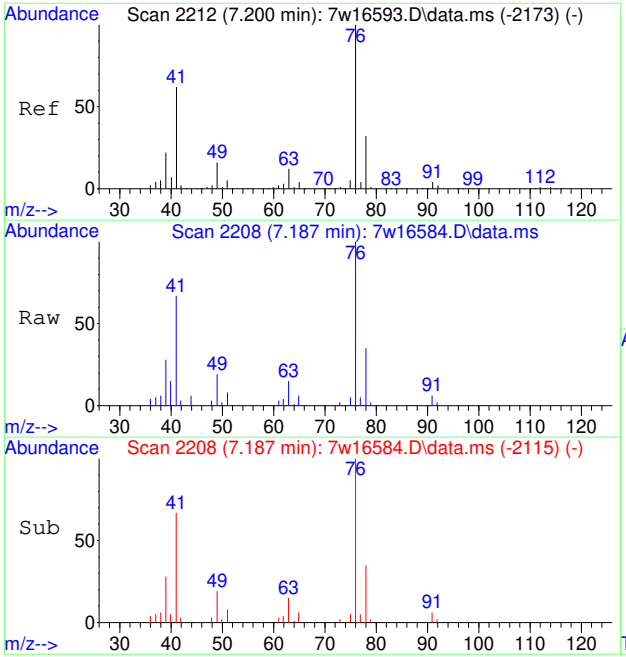


#66
TOLUENE
Concen: 0.51 PPBV
RT: 7.126 min Scan# 2189
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 24682

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

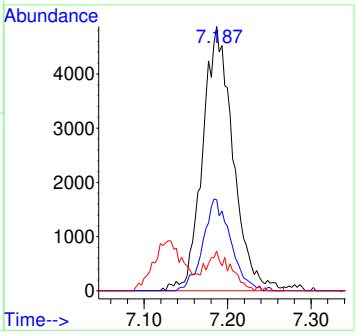


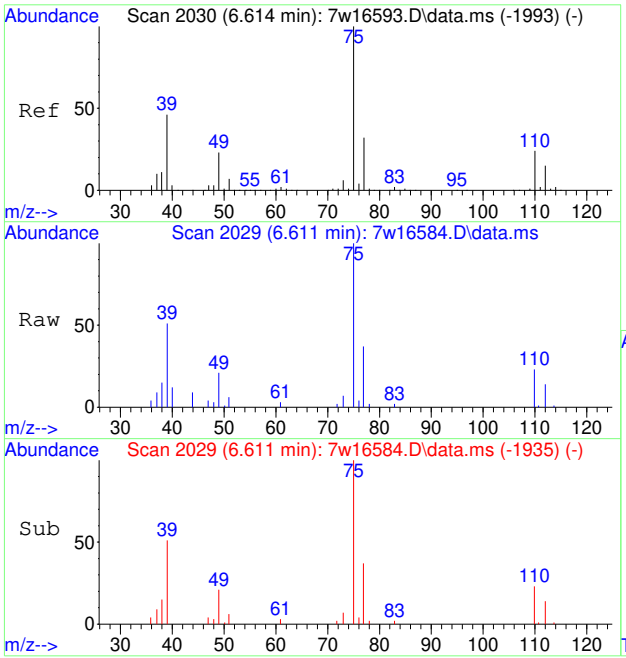


#67
1,3-DICHLOROPROPANE
Concen: 0.50 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 12380

Ion	Ratio	Lower	Upper
76	100		
78	31.6	22.1	41.1
63	13.2	8.0	14.8

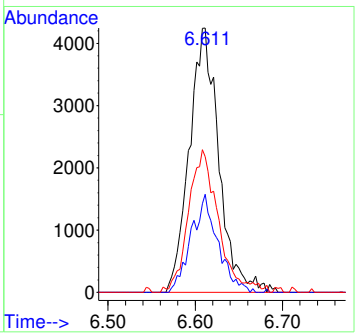


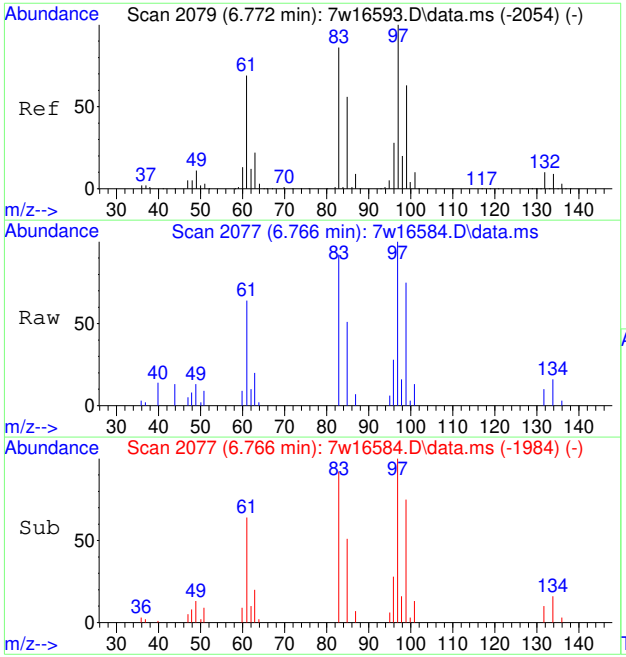


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.41 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 10011

Ion	Ratio	Lower	Upper
75	100		
77	33.6	22.5	41.7
39	55.1	37.2	69.0

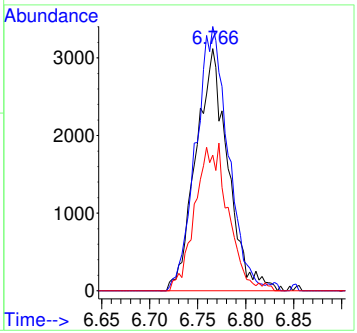


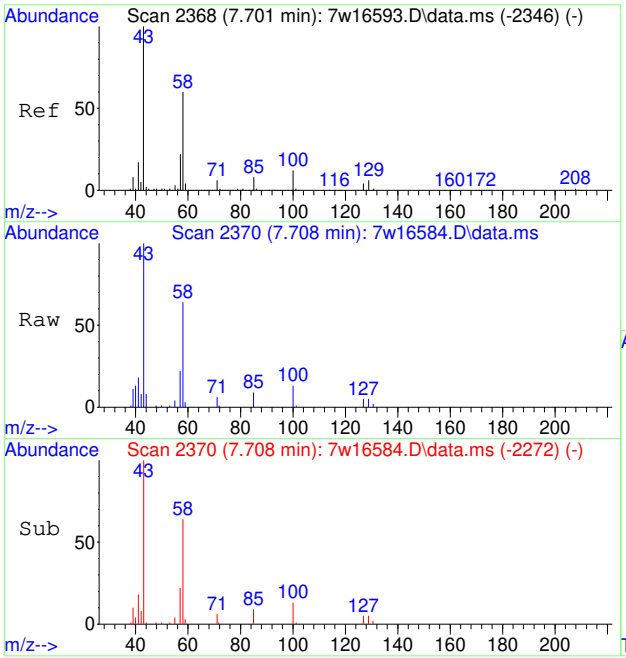


#69
1,1,2-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 7248

Ion	Ratio	Lower	Upper
83	100		
97	111.0	86.7	160.9
85	62.6	45.5	84.5

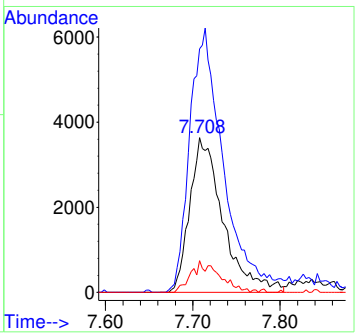


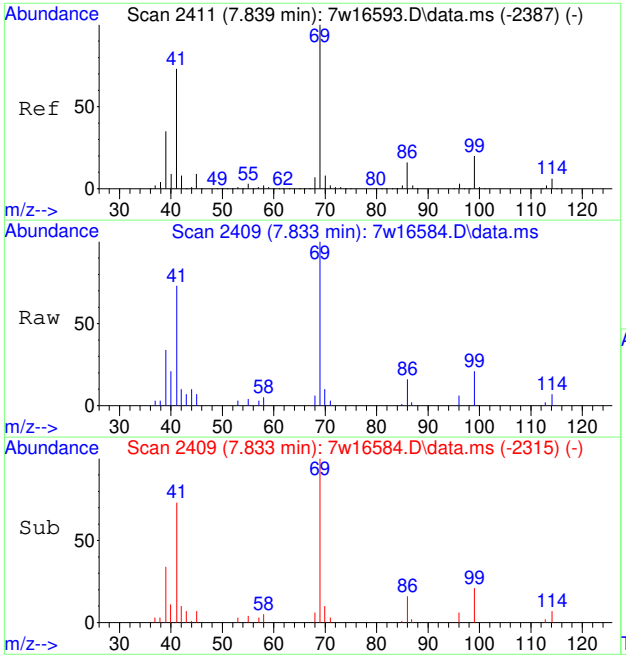


#70
2-HEXANONE
Concen: 0.47 PPBV
RT: 7.708 min Scan# 2370
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 9642

Ion	Ratio	Lower	Upper
58	100		
43	173.7	141.7	263.3
100	17.2	18.9	35.1#

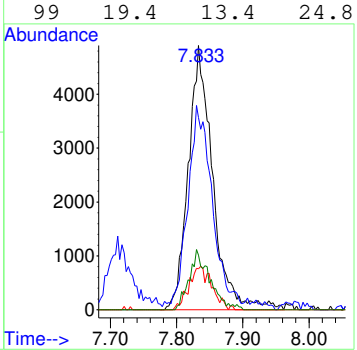


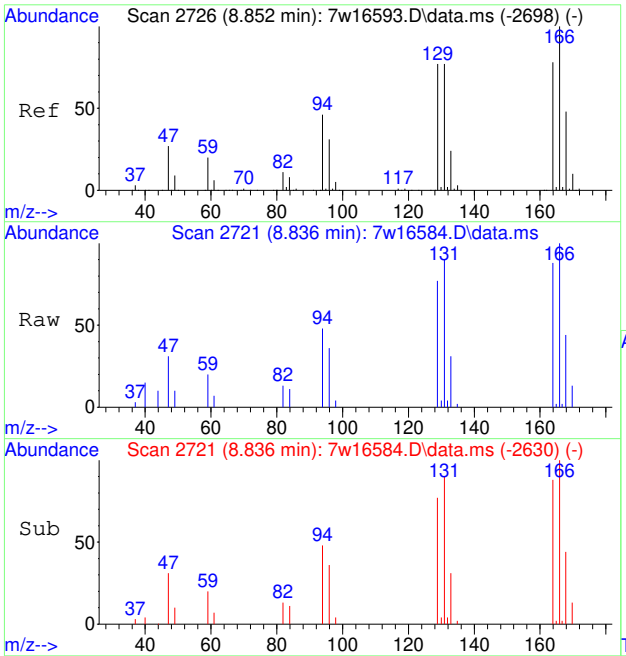


#71
ETHYL METHACRYLATE
Concen: 0.48 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 12576

Ion	Ratio	Lower	Upper
69	100		
41	81.1	49.3	91.6
86	15.5	11.6	21.6
99	19.4	13.4	24.8

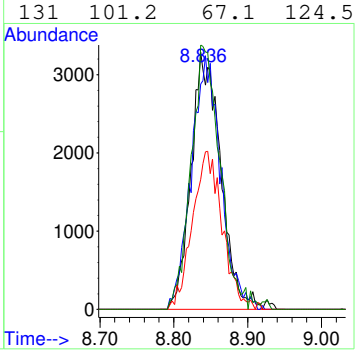


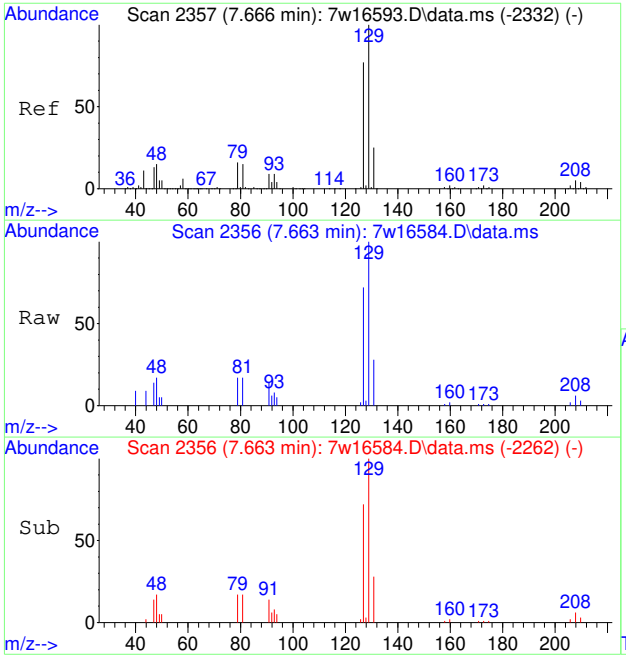


#72
TETRACHLOROETHENE
Concen: 0.52 PPBV
RT: 8.836 min Scan# 2721
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:164 Resp: 9191

Ion	Ratio	Lower	Upper
164	100		
129	97.9	69.7	129.5
168	61.9	43.4	80.6
131	101.2	67.1	124.5

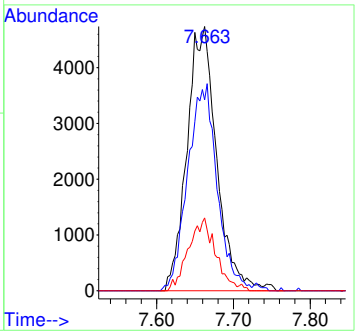


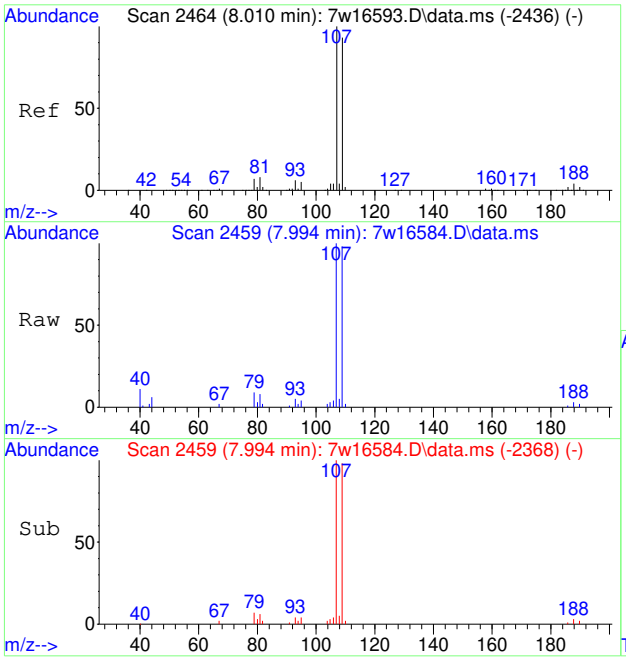


#73
DIBROMOCHLOROMETHANE
Concen: 0.43 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:129 Resp: 12752

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	25.4	16.9	31.3

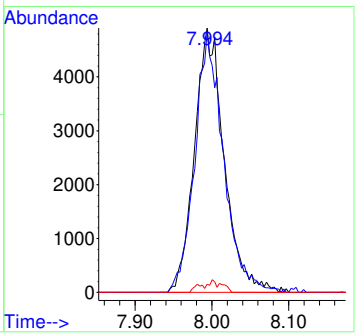


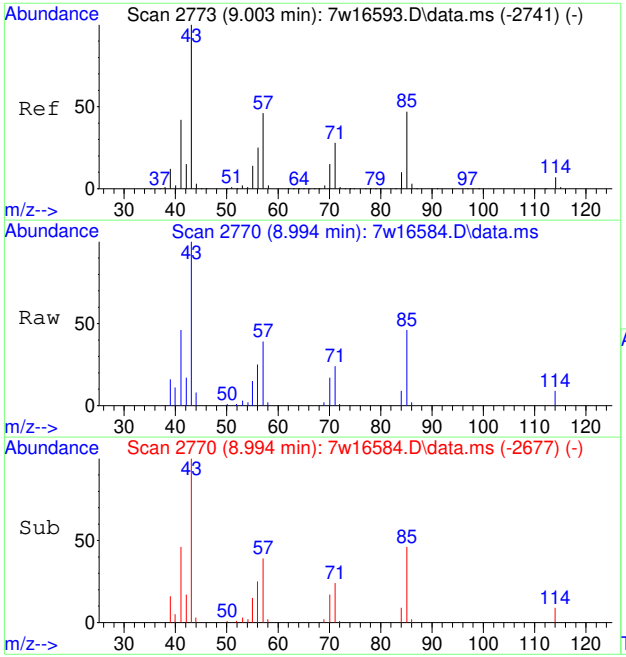


#74
1,2-DIBROMOETHANE
Concen: 0.52 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:107 Resp: 13213

Ion	Ratio	Lower	Upper
107	100		
109	95.1	65.7	122.1
188	3.1	2.4	4.4

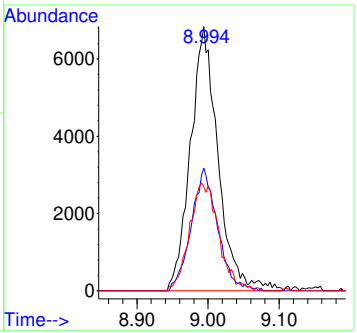


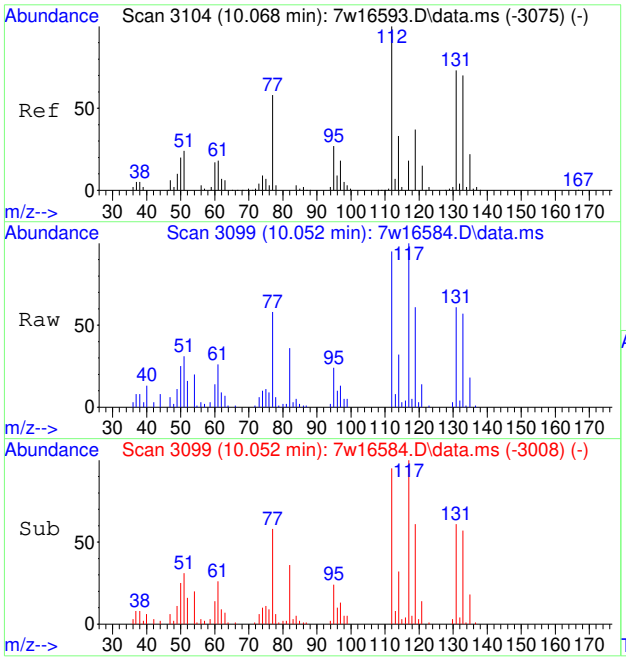


#75
OCTANE
Concen: 0.51 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 18440

Ion	Ratio	Lower	Upper
43	100		
85	44.3	36.5	67.9
57	43.3	27.6	51.2

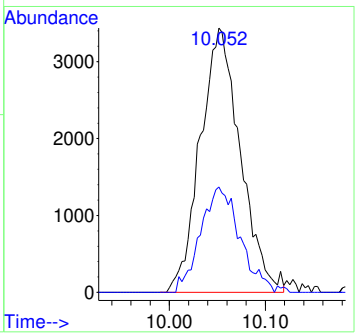


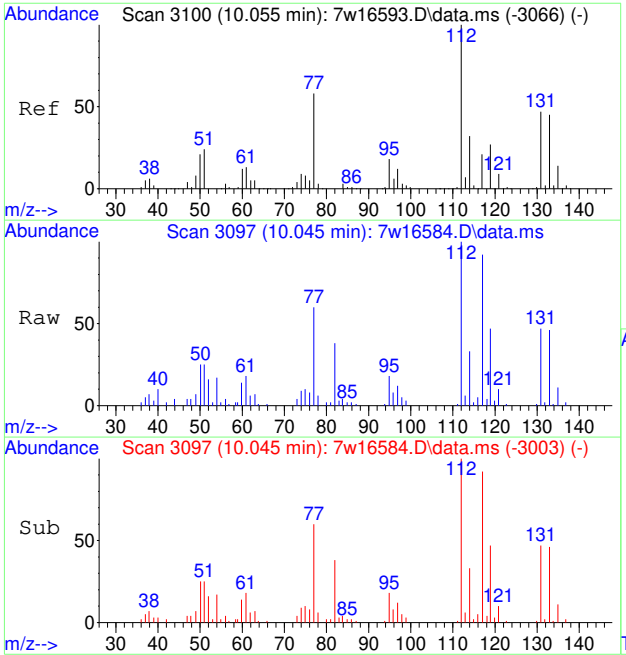


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.47 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:131 Resp: 9977

Ion	Ratio	Lower	Upper
131	100		
95	39.6	23.7	43.9

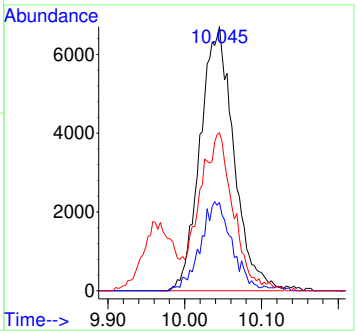


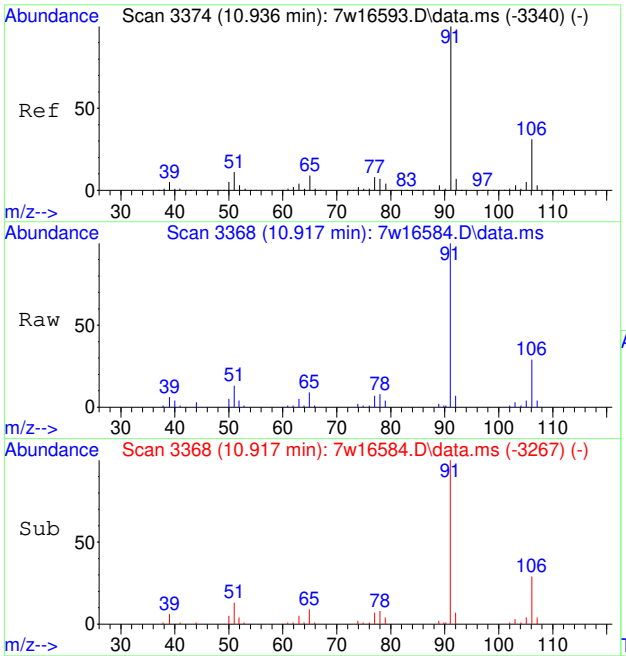


#78
CHLOROBENZENE
Concen: 0.52 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:112 Resp: 20418

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.7	34.4	63.8

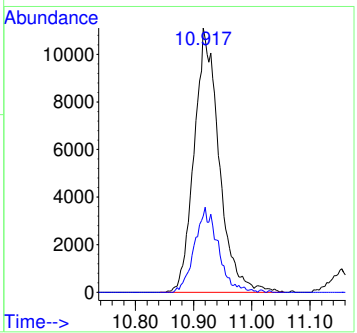


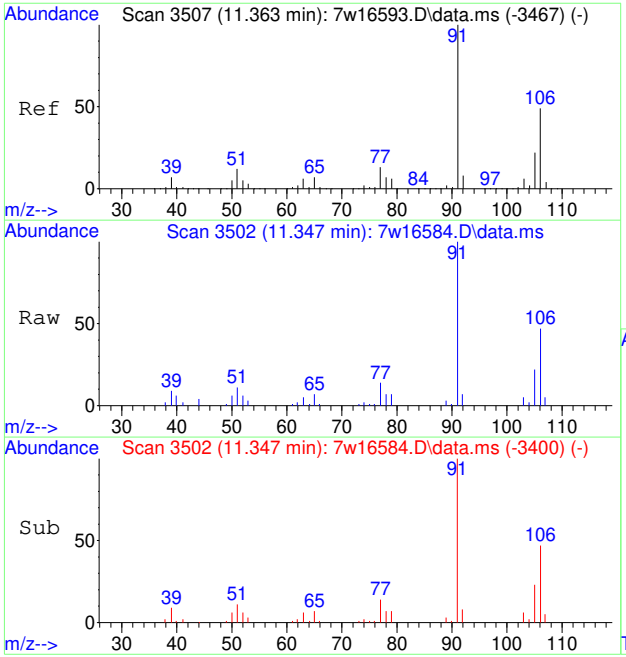


#79
ETHYLBENZENE
Concen: 0.52 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 33108

Ion	Ratio	Lower	Upper
91	100		
106	30.4	2.8	62.8

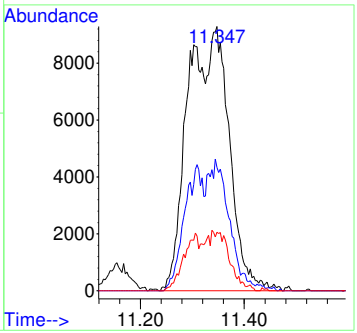


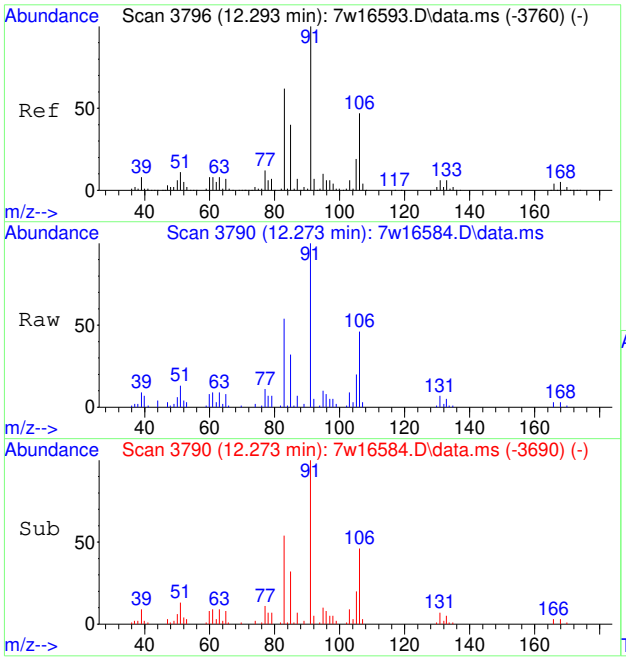


#80
M,P-XYLENE
Concen: 1.00 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 51511

Ion	Ratio	Lower	Upper
91	100		
106	27.3	0.0	58.7
105	12.4	0.0	43.2

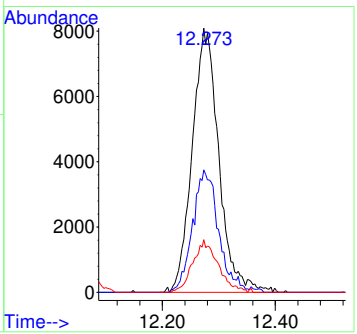


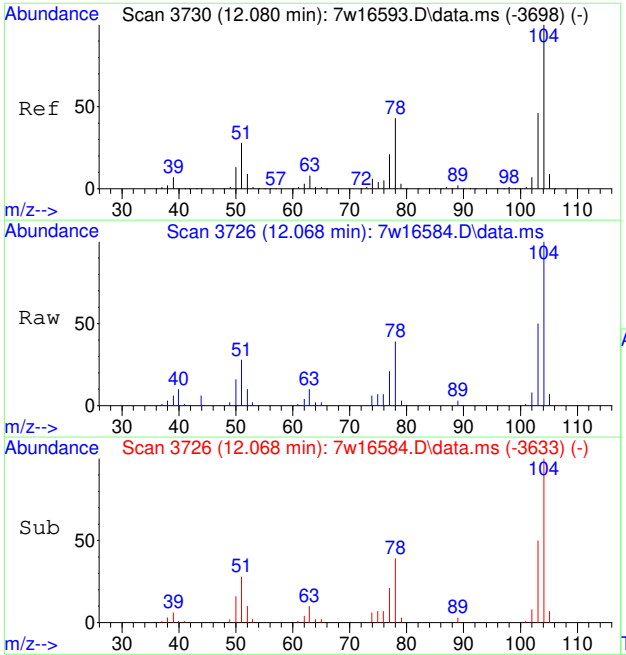


#81
O-XYLENE
Concen: 0.52 PPBV
RT: 12.273 min Scan# 3790
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 26468

Ion	Ratio	Lower	Upper
91	100		
106	46.3	34.1	63.3
105	19.9	14.6	27.2

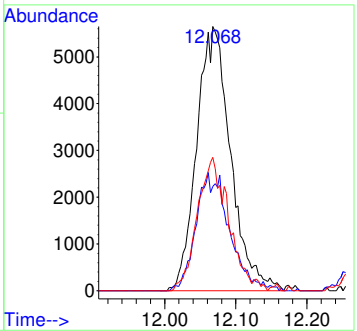


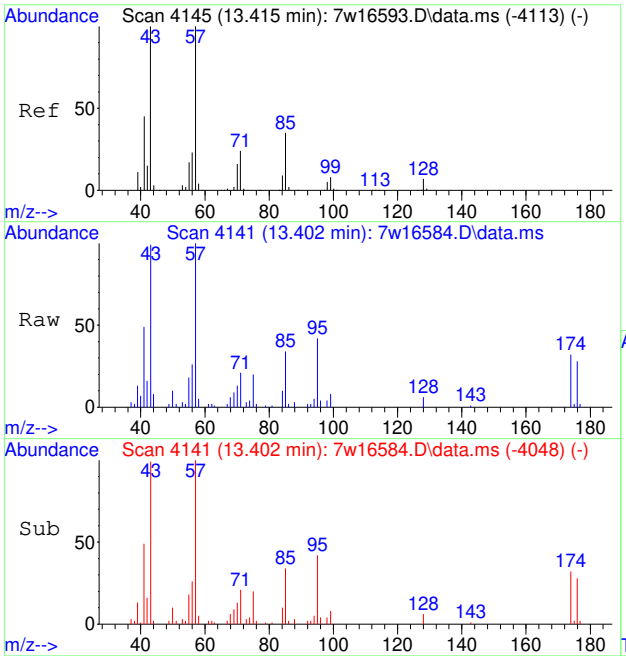


#82
STYRENE
Concen: 0.48 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:104 Resp: 18750

Ion	Ratio	Lower	Upper
104	100		
78	44.1	25.3	46.9
103	47.1	33.2	61.7

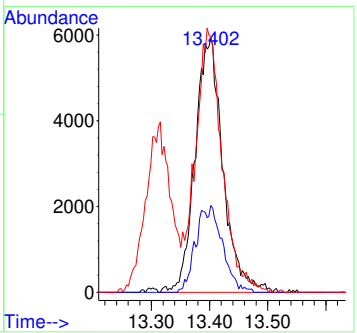


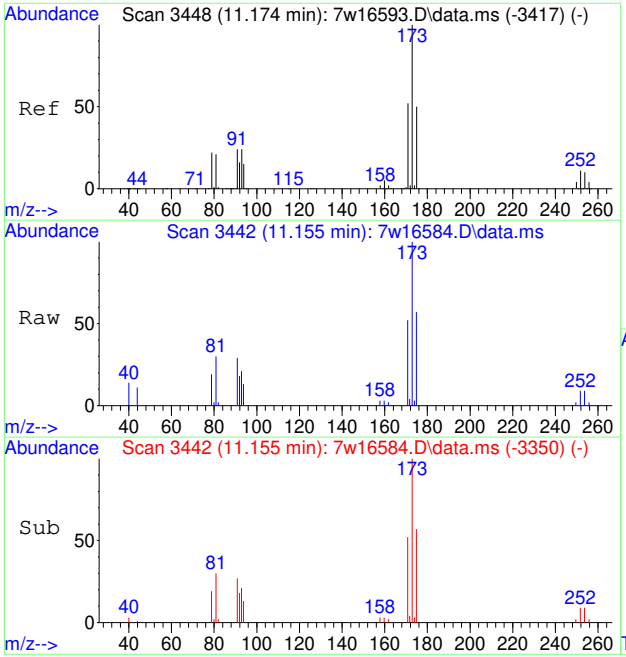


#83
NONANE
Concen: 0.51 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 19802

Ion	Ratio	Lower	Upper
43	100		
85	32.5	27.6	51.2
57	100.6	56.4	104.7

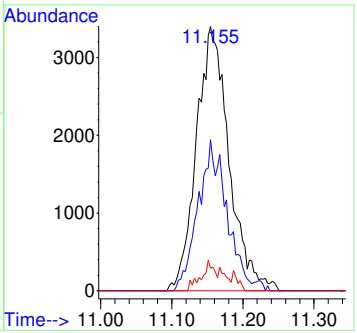


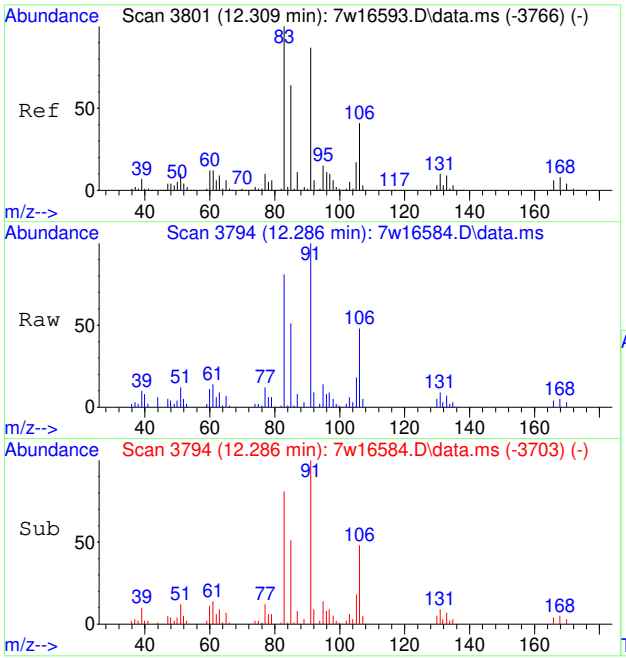


#84
BROMOFORM
Concen: 0.42 PPBV
RT: 11.155 min Scan# 3442
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:173 Resp: 10827

Ion	Ratio	Lower	Upper
173	100		
175	51.0	33.0	61.4
254	8.1	5.9	10.9

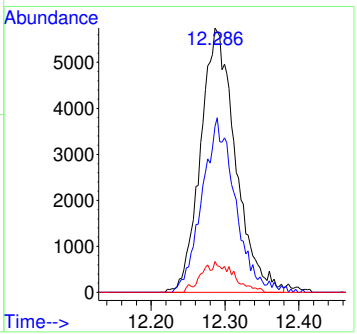


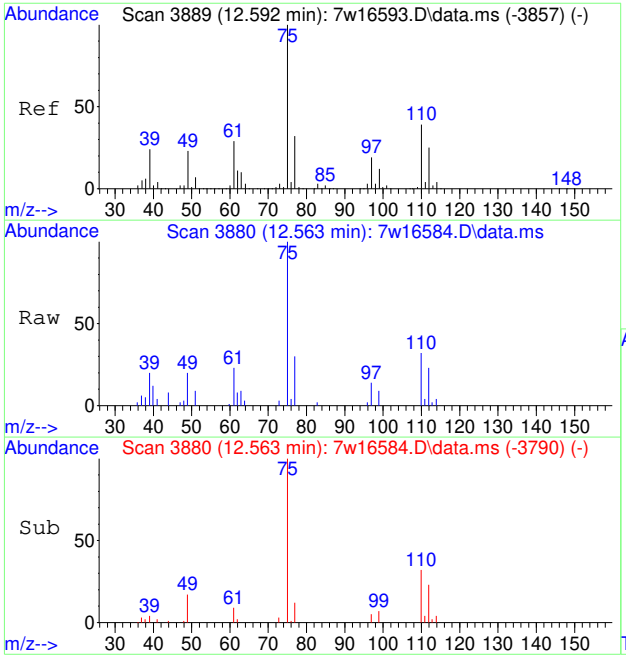


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.51 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 18876

Ion	Ratio	Lower	Upper
83	100		
85	63.1	44.6	82.8
131	10.6	8.0	14.8

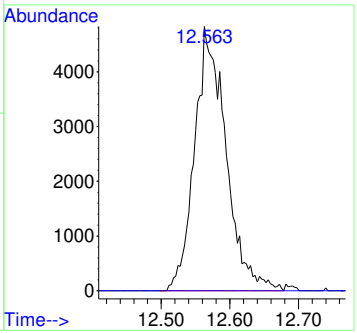


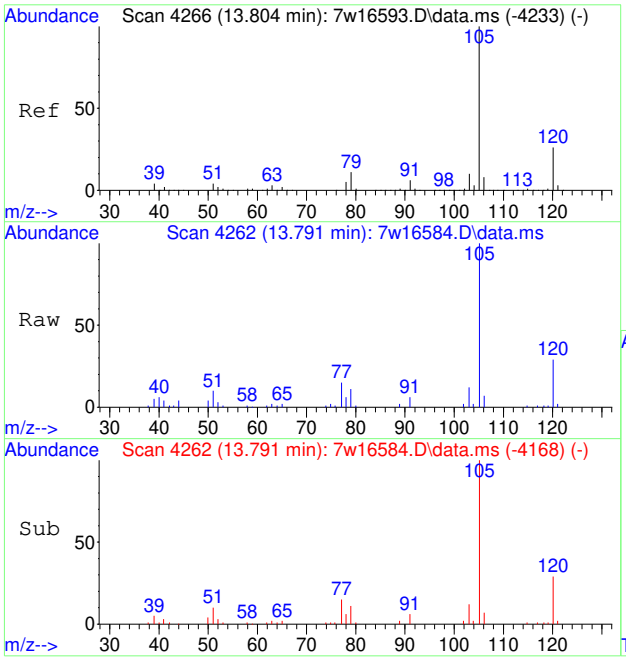


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.53 PPBV
RT: 12.563 min Scan# 3880
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 15262

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

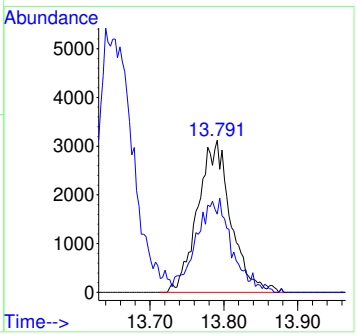


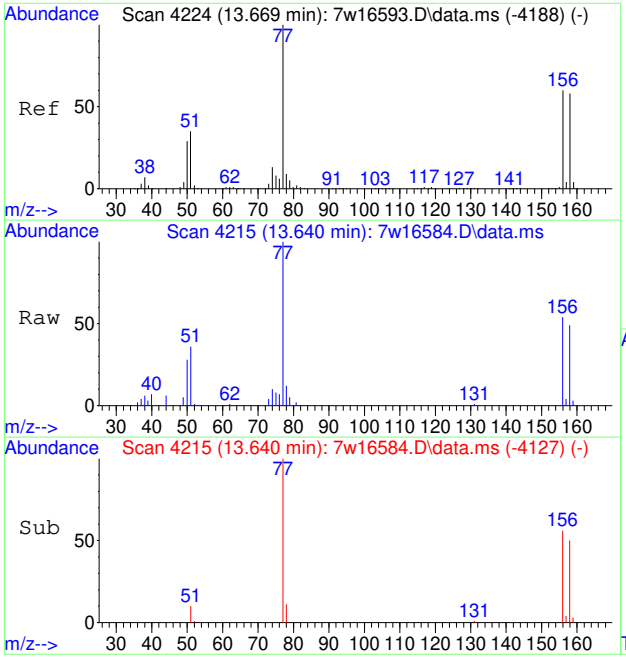


#88
ISOPROPYLBENZENE
Concen: 0.50 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9713

Ion	Ratio	Lower	Upper
120	100		
77	65.8	36.0	67.0

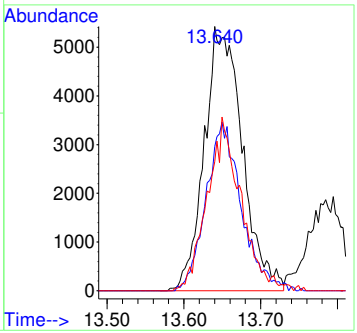


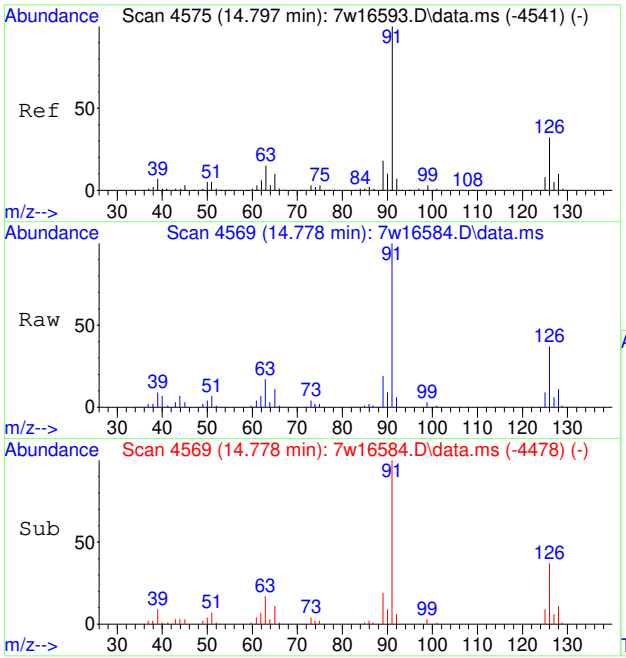


#89
BROMOBENZENE
Concen: 0.51 PPBV
RT: 13.640 min Scan# 4215
Delta R.T. -0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 77 Resp: 18640

Ion	Ratio	Lower	Upper
77	100		
156	59.5	57.9	107.5
158	57.9	55.7	103.5

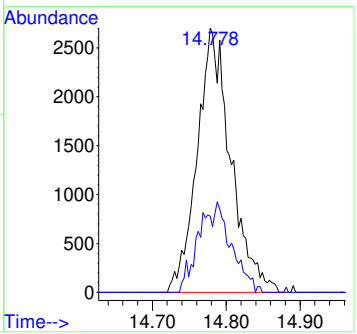


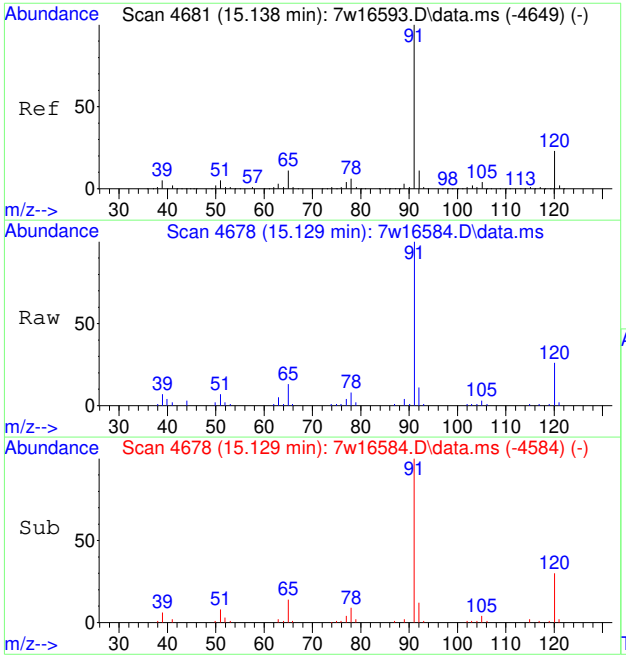


#90
2-CHLOROTOLUENE
Concen: 0.47 PPBV
RT: 14.778 min Scan# 4569
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:126 Resp: 8526

Ion	Ratio	Lower	Upper
126	100		
128	17.9	22.7	42.1#

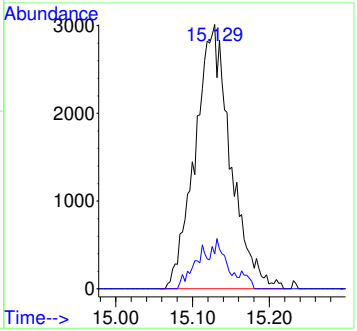


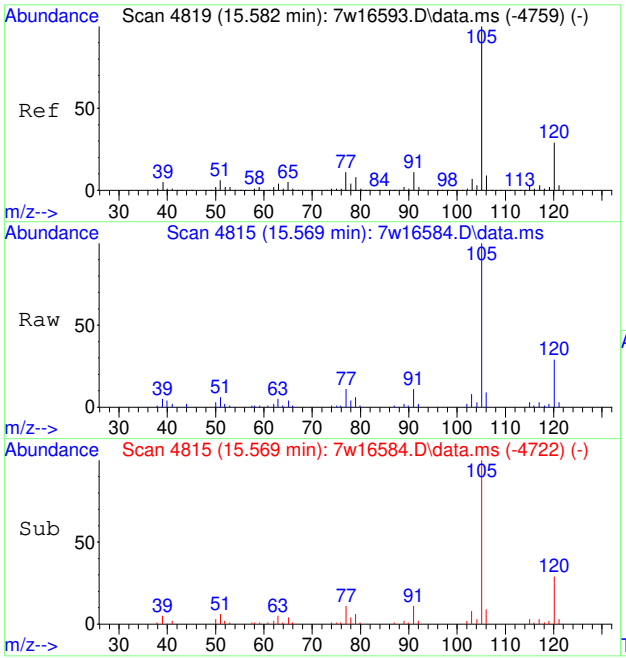


#91
N-PROPYLBENZENE
Concen: 0.46 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9669

Ion	Ratio	Lower	Upper
120	100		
105	15.8	10.6	19.6

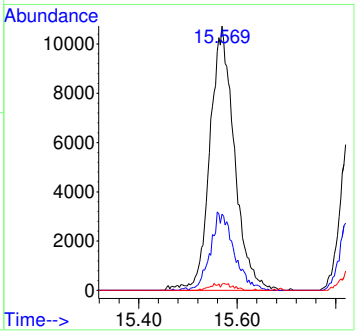


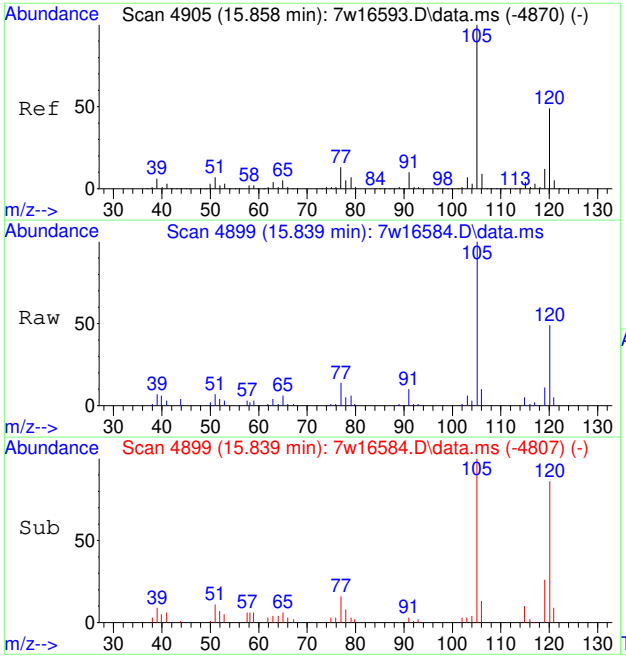


#92
4-ETHYLTOLUENE
Concen: 0.48 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 36862

Ion	Ratio	Lower	Upper
105	100		
120	0.0	21.8	40.4#
119	1.2	1.7	3.1#

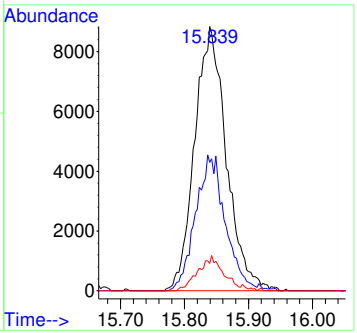


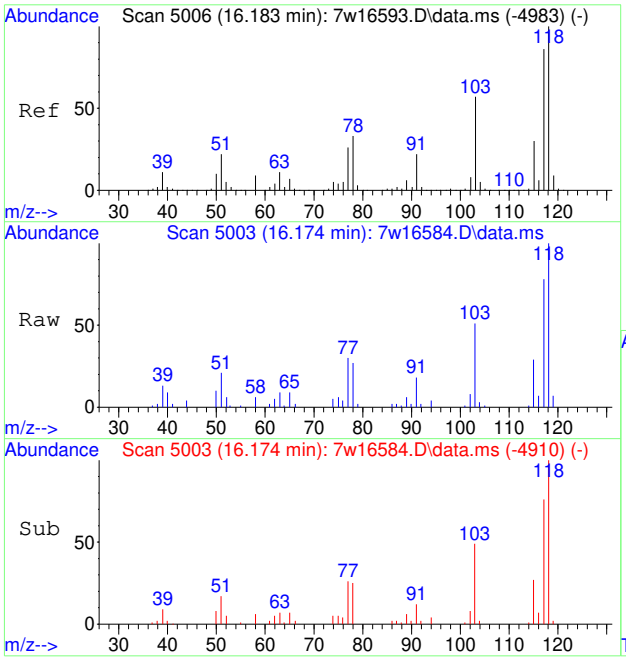


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.48 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30468

Ion	Ratio	Lower	Upper
105	100		
120	48.5	37.2	69.2
91	11.0	7.5	13.9

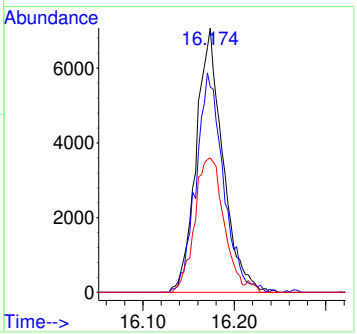


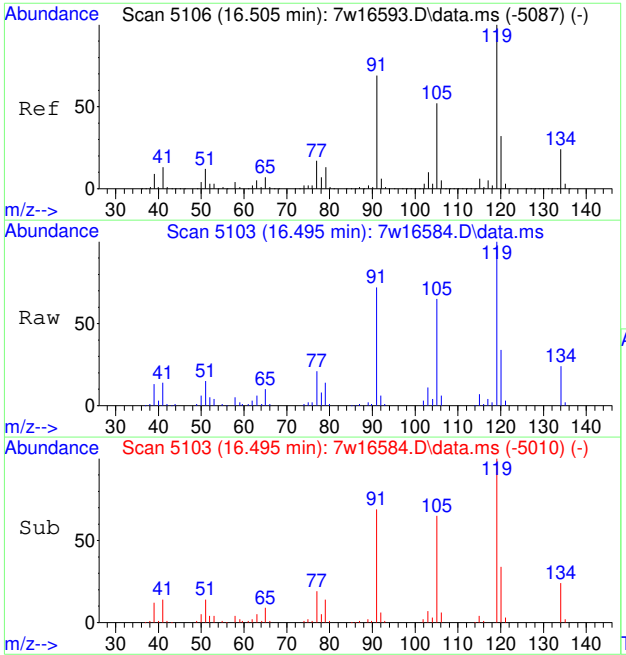


#94
ALPHA-METHYLSTYRENE
Concen: 0.44 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:118 Resp: 14307

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	56.7	36.2	67.2

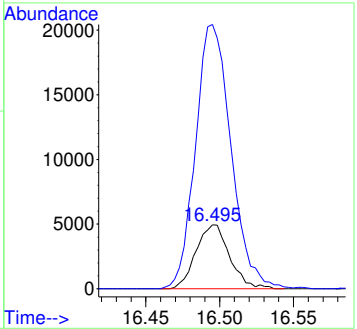


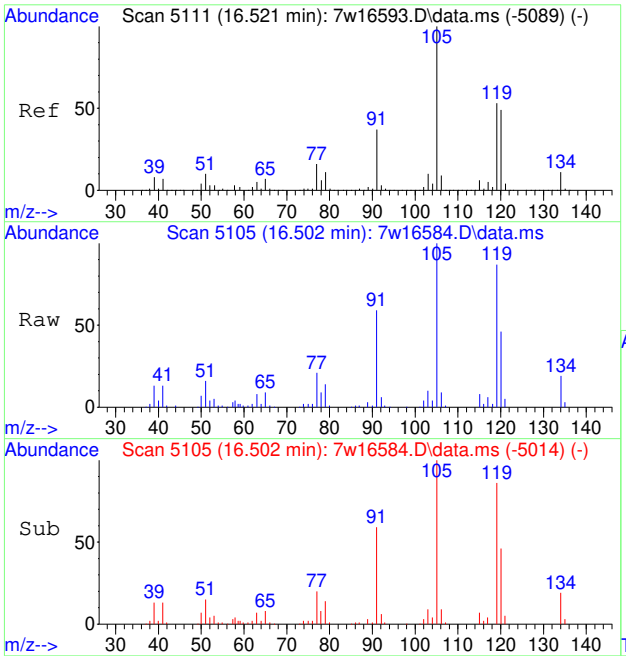


#95
TERT-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 7825

Ion	Ratio	Lower	Upper
134	100		
119	437.4	307.9	571.7

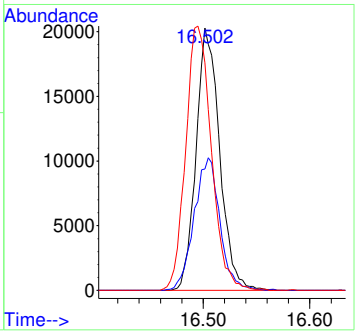


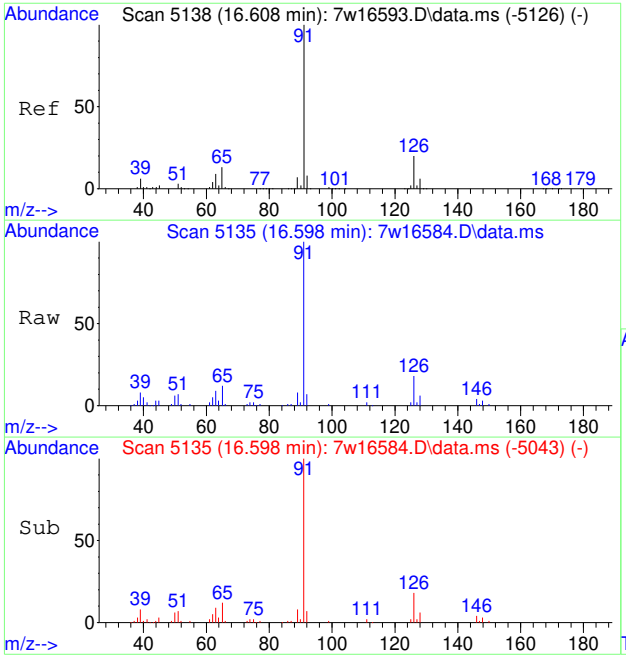


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.502 min Scan# 5105
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 31128

Ion	Ratio	Lower	Upper
105	100		
120	55.2	40.9	75.9
119	109.9	78.0	144.8

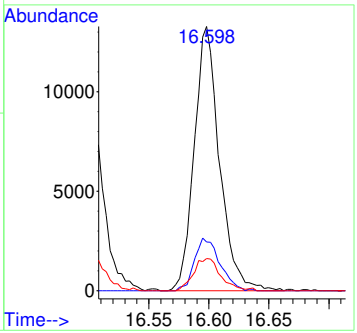


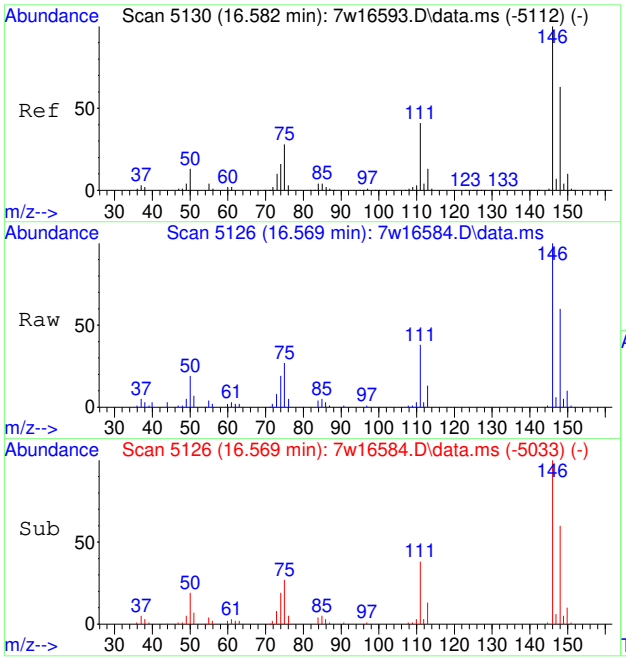


#97
BENZYL CHLORIDE
Concen: 0.35 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 19459

Ion	Ratio	Lower	Upper
91	100		
126	20.1	17.2	32.0
65	13.2	7.3	13.7

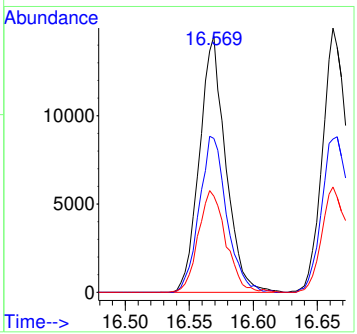


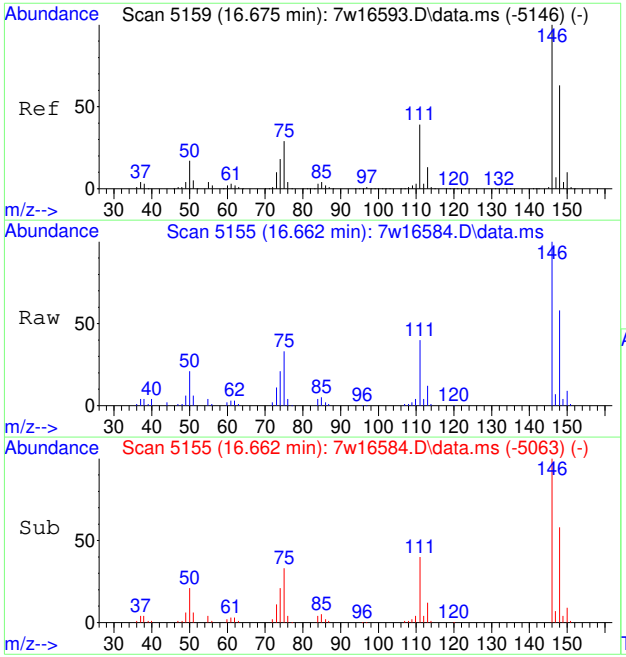


#98
M-DICHLOROBENZENE
Concen: 0.48 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20646

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	42.0	25.4	47.2

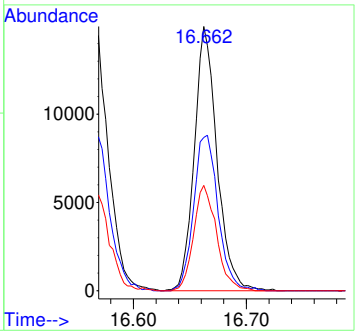


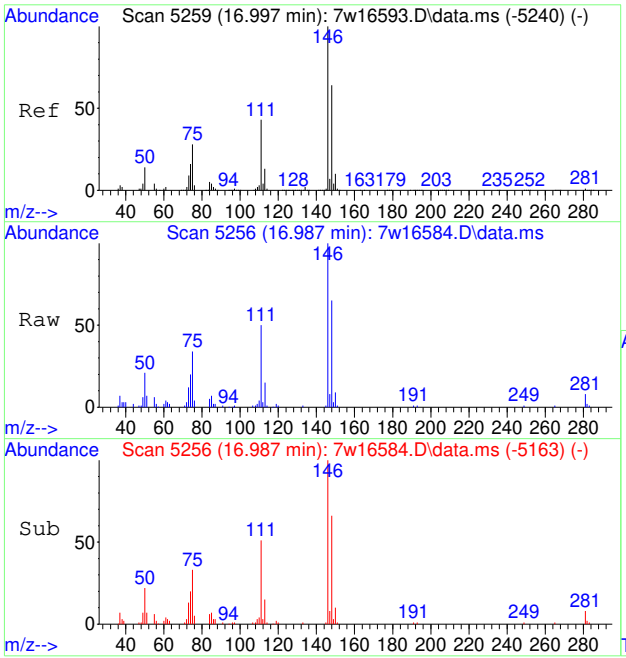


#99
P-DICHLOROBENZENE
Concen: 0.49 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20868

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	40.2	24.8	46.1

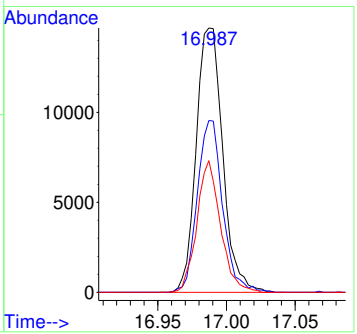


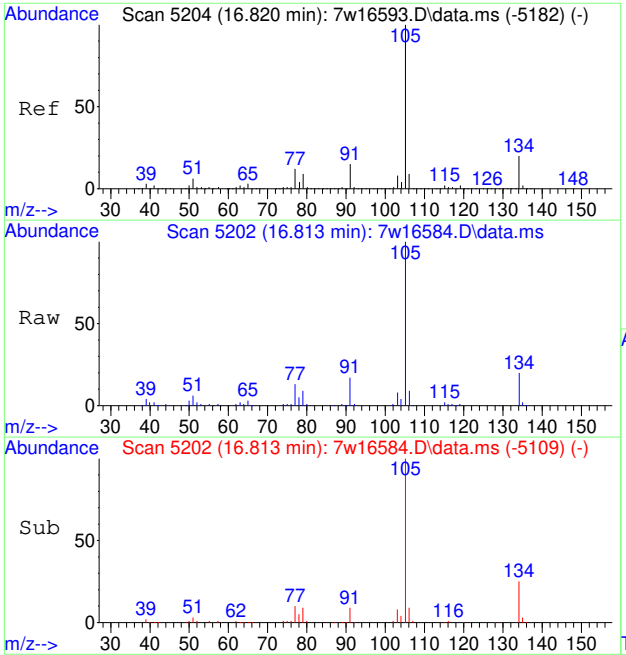


#100
O-DICHLOROBENZENE
Concen: 0.50 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 19799

Ion	Ratio	Lower	Upper
146	100		
148	62.1	44.6	82.8
111	44.3	26.9	50.1

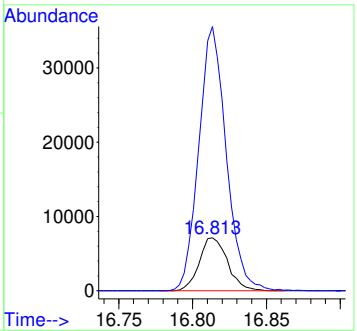


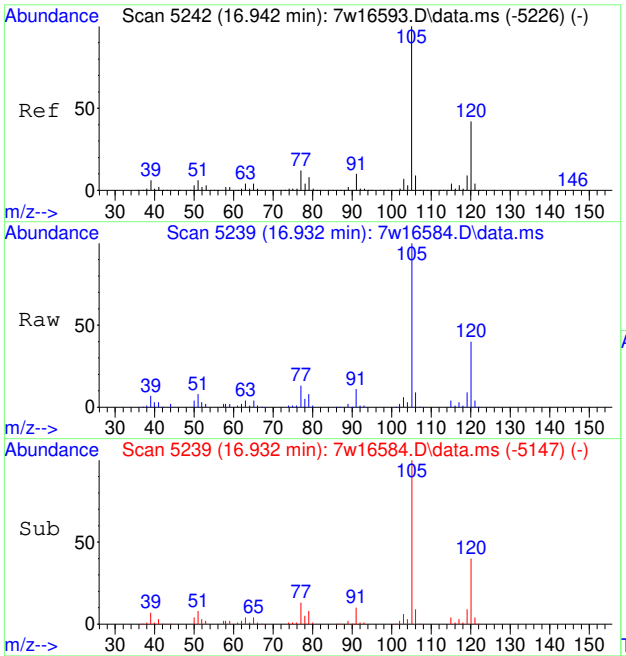


#101
SEC-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9482

Ion	Ratio	Lower	Upper
134	100		
105	484.9	314.4	584.0

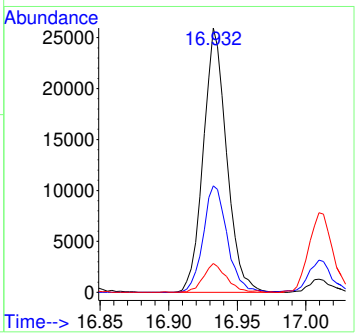


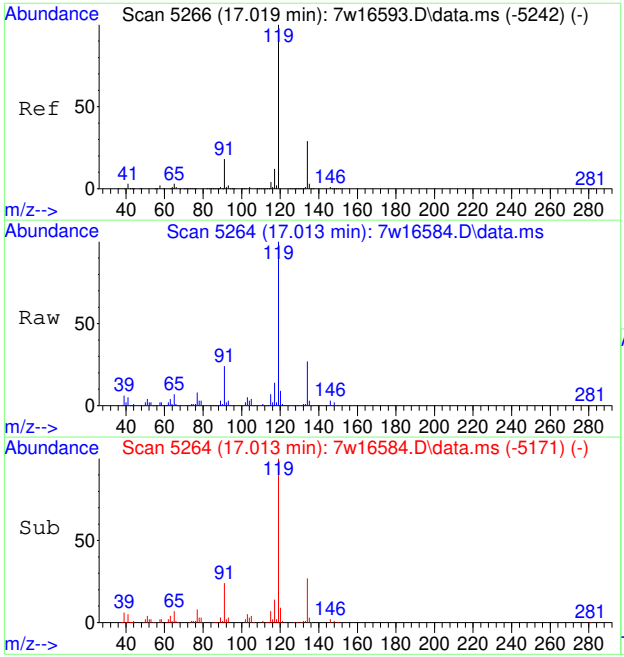


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30663

Ion	Ratio	Lower	Upper
105	100		
120	41.5	31.9	59.2
91	11.0	7.3	13.5

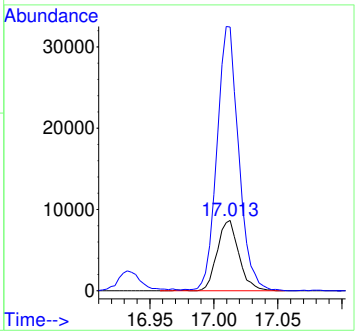


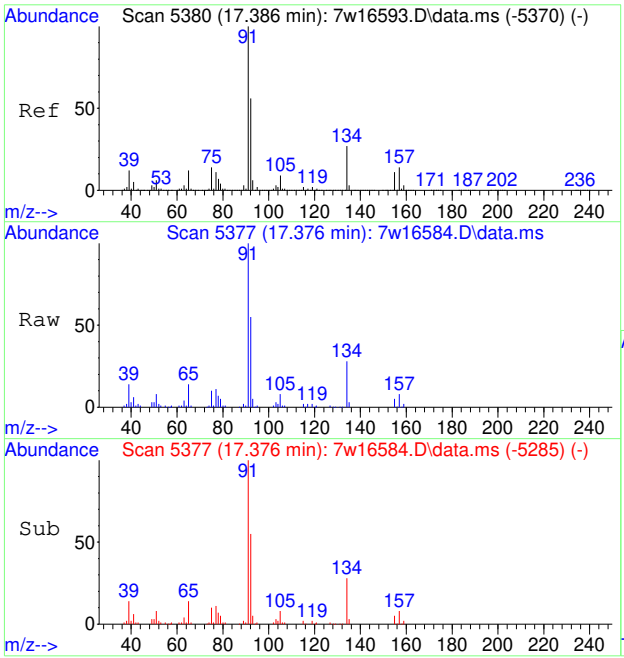


#103
P-ISOPROPYLTOLUENE
Concen: 0.49 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 10237

Ion	Ratio	Lower	Upper
134	100		
119	376.8	253.7	471.3

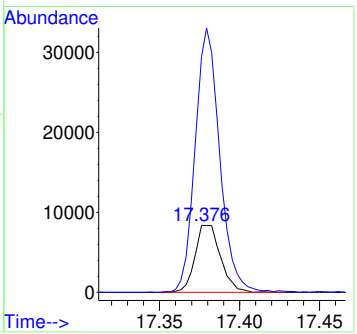


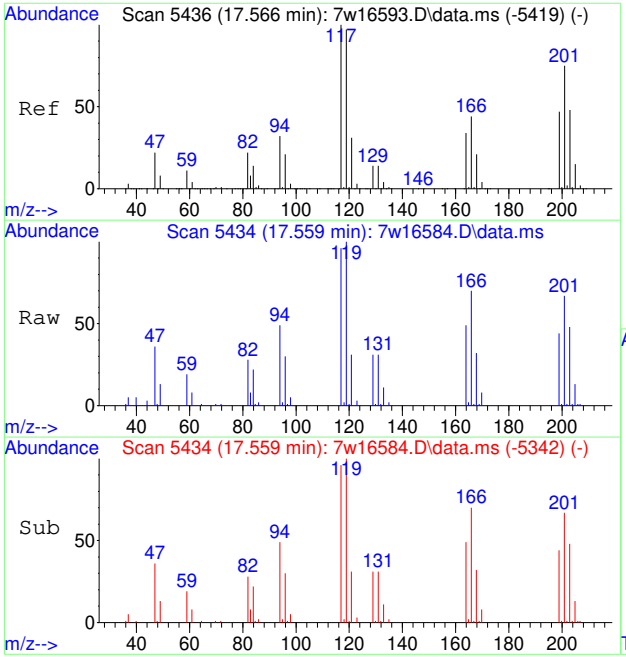


#104
N-BUTYLBENZENE
Concen: 0.47 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9347

Ion	Ratio	Lower	Upper
134	100		
91	380.4	231.1	429.1

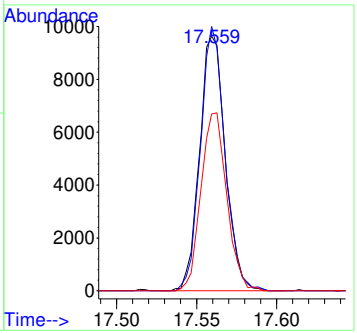


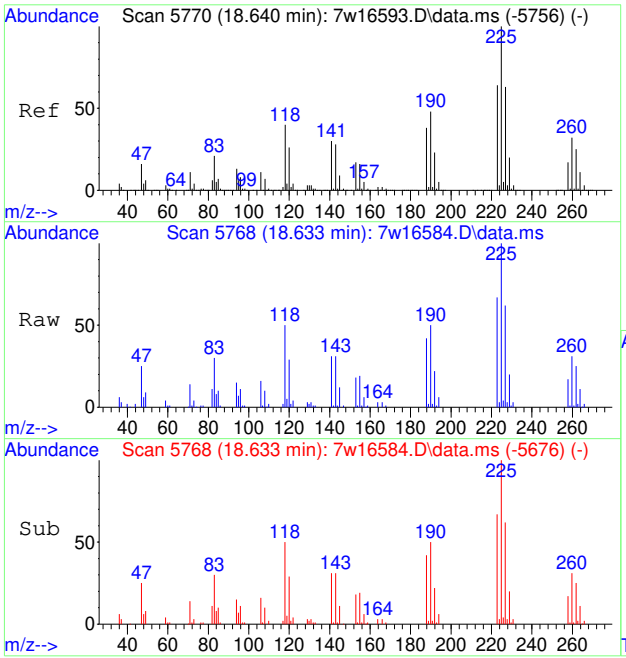


#105
HEXACHLOROETHANE
Concen: 0.44 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 10816

Ion	Ratio	Lower	Upper
117	100		
119	98.3	68.3	126.9
201	69.8	45.9	85.3

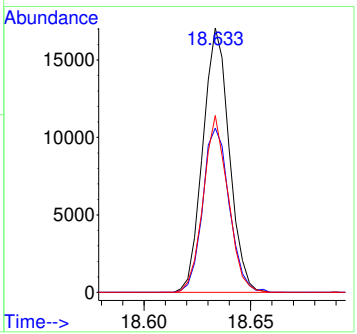


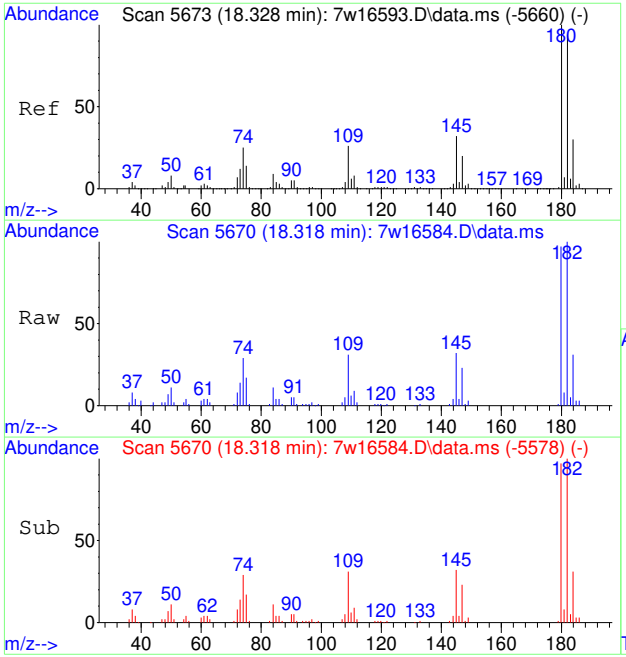


#106
HEXACHLOROBUTADIENE
Concen: 0.54 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:225 Resp: 14662

Ion	Ratio	Lower	Upper
225	100		
227	62.8	44.4	82.5
223	62.8	44.7	83.1

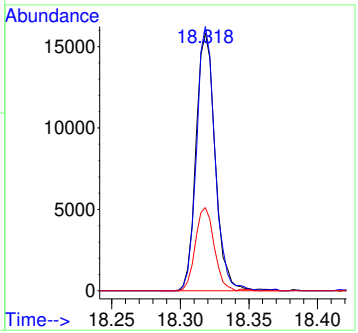


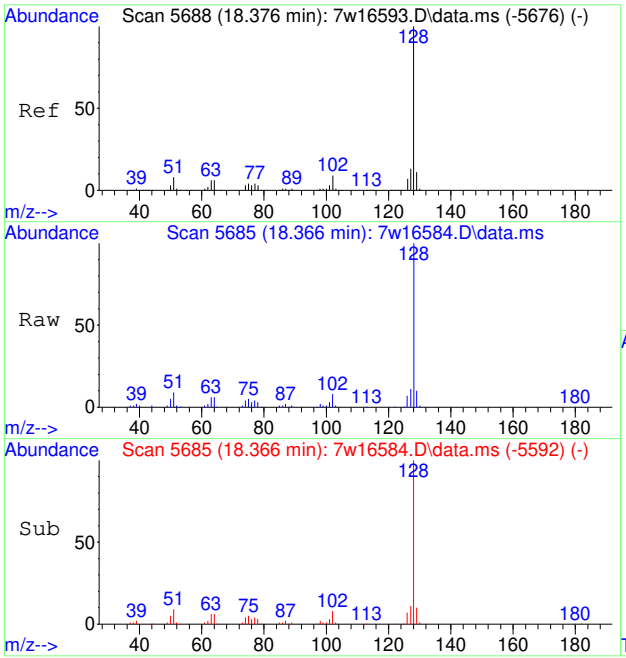


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.44 PPBV
RT: 18.318 min Scan# 5670
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:180 Resp: 15355

Ion	Ratio	Lower	Upper
180	100		
182	98.7	66.8	124.0
145	32.0	23.1	42.9

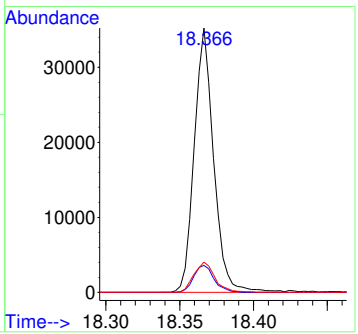


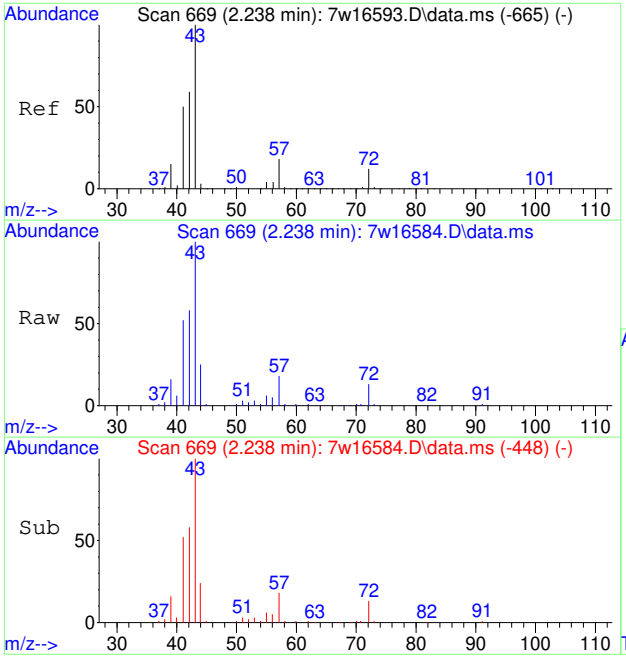


#108
NAPHTHALENE
Concen: 0.40 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:128 Resp: 32243

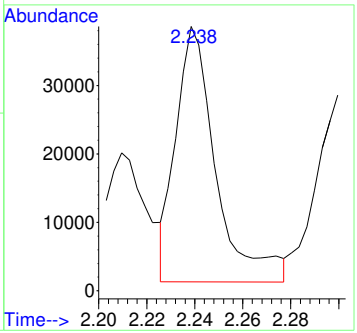
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.4	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.69 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:TIC Resp: 43130



7.7.17

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16584.D
Injection Time: 08/07/25 09:13

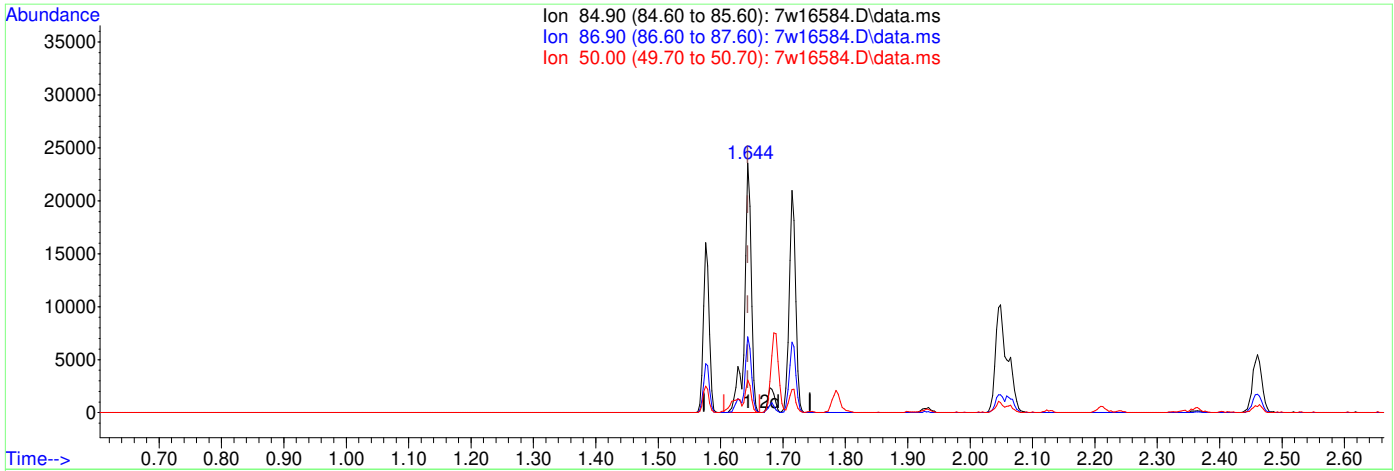
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

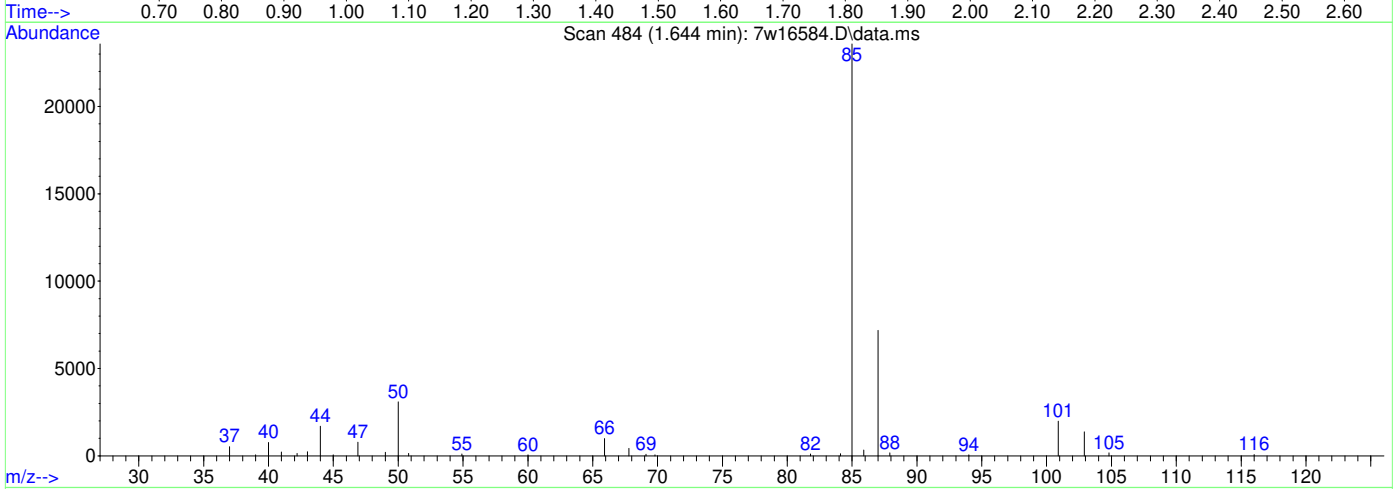
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.52PPBV

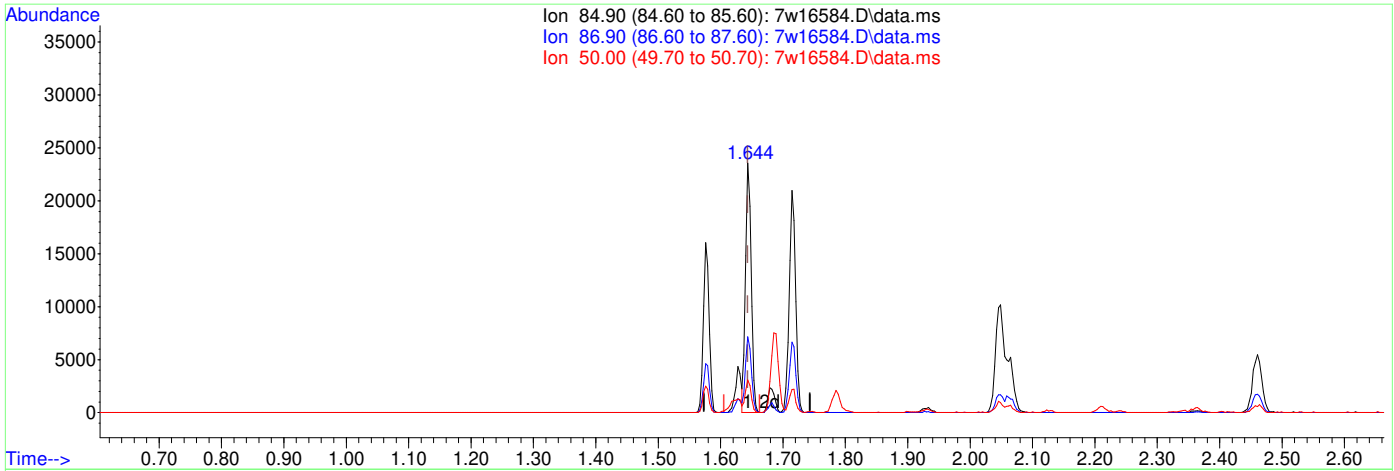
response 17704

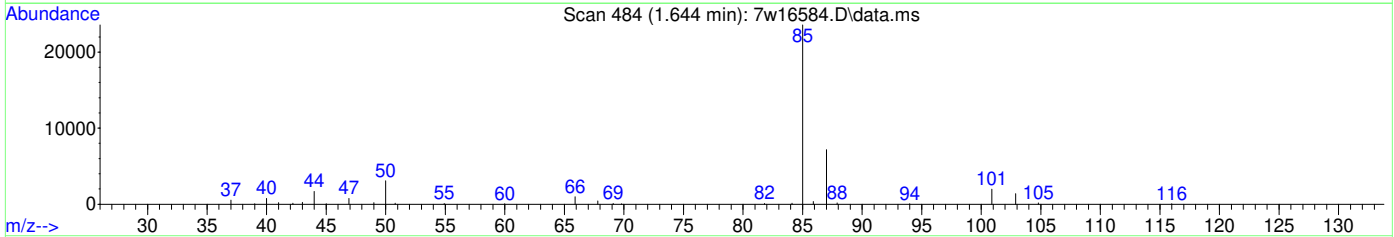
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.09
50.00	17.30	20.09
0.00	0.00	0.00

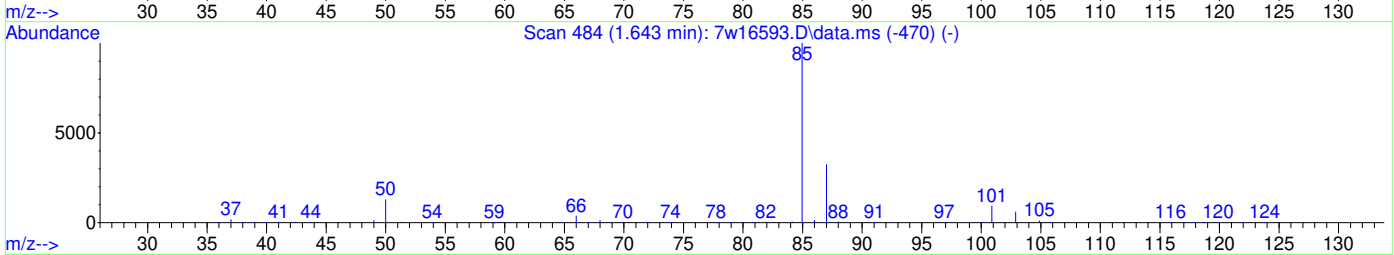
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.44PPBV m

response 14890

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.16
50.00	17.30	23.88#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110309	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	561645	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511167	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110309	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415987	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	71924	5.05	PPBV		88
3) FREON 152A	1.605	65	34756	5.11	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	16247	5.26	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	77653	5.13	PPBV		72
6) DICHLORODIFLUOROMETHANE	1.643	85	143733m	4.36	PPBV		
7) PROPYLENE	1.627	41	44998	5.15	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	131345	5.33	PPBV		99
9) FREON 114	1.714	85	147028	5.09	PPBV		83
10) CHLOROMETHANE	1.688	52	19944	5.36	PPBV		96
11) VINYL CHLORIDE	1.746	62	69360	5.02	PPBV		98
12) 1,3-BUTADIENE	1.785	54	53869	5.04	PPBV	#	74
13) N-BUTANE	1.801	43	95908	5.23	PPBV		98
14) BROMOMETHANE	1.859	94	52720	5.02	PPBV		97
15) CHLOROETHANE	1.904	64	35268	4.83	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	127414	4.88	PPBV		96
17) ACETONITRILE	1.994	41	54085	4.71	PPBV		97
18) ACROLEIN	2.032	56	30491	5.10	PPBV		97
19) FREON 123	2.049	83	138654	5.20	PPBV		97
20) FREON 123A	2.065	117	81977	5.24	PPBV	#	56
21) TRICHLOROFLUOROMETHANE	2.129	101	150765	4.96	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	131851	5.23	PPBV		89
23) ACETONE	2.071	58	34925	5.00	PPBV		67
24) PENTANE	2.241	42	67328	5.17	PPBV		89
25) IODOMETHANE	2.299	142	145418	5.22	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	59691	5.29	PPBV	#	61
27) CARBON DISULFIDE	2.463	76	169676	5.18	PPBV		94
28) ETHANOL	1.933	45	31099	4.82	PPBV		98
29) BROMOETHENE	2.004	106	53853	4.91	PPBV		95
30) ACRYLONITRILE	2.209	52	50954	5.27	PPBV		98
31) METHYLENE CHLORIDE	2.364	84	53489	5.00	PPBV	#	78
32) 3-CHLOROPROPENE	2.405	76	30822	5.04	PPBV		72
33) FREON 113	2.460	151	91200	5.19	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.685	96	62237	5.00	PPBV	#	64
35) TERTIARY BUTYL ALCOHOL	2.338	59	146023	4.75	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	180915	5.12	PPBV		97
37) TETRAHYDROFURAN	3.470	72	27419	4.64	PPBV		76
38) HEXANE	3.241	57	121135	5.18	PPBV		82
39) VINYL ACETATE	2.827	86	16334	4.75	PPBV		70
40) 1,1-DICHLOROETHANE	2.759	63	121863	4.97	PPBV		97
41) METHYL ETHYL KETONE	2.923	72	31986	5.07	PPBV	#	83
42) CIS-1,2-DICHLOROETHENE	3.113	96	64888	5.01	PPBV	#	74
43) DIISOPROPYL ETHER	3.245	59	35230	5.24	PPBV		90
44) ETHYL ACETATE	3.248	61	23700	4.98	PPBV		68
45) METHYL ACRYLATE	3.235	55	147700	5.10	PPBV	#	98
46) CHLOROFORM	3.261	83	130788	5.10	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	139904	5.24	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	135968	5.09	PPBV		95
49) CARBON TETRACHLORIDE	4.235	117	140153	4.91	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.659	62	100577	5.00	PPBV		98
51) BENZENE	4.129	78	190147	5.07	PPBV		90
53) CYCLOHEXANE	4.335	84	86740	5.03	PPBV	#	69
54) 2,3-DIMETHYLPENTANE	4.585	71	44676	5.09	PPBV		68
55) TRICHLOROETHENE	5.013	95	87453	4.76	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	79932	4.94	PPBV		92
57) DIBROMOMETHANE	4.740	174	74130	4.94	PPBV		91
58) ETHYL ACRYLATE	4.901	55	184653	5.03	PPBV	#	96
59) BROMODICHLOROMETHANE	4.958	83	145254	4.78	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	376202	4.91	PPBV	#	95
61) 1,4-DIOXANE	5.029	88	43182	4.76	PPBV	#	83
62) HEPTANE	5.418	43	129447	5.06	PPBV		90
63) METHYL METHACRYLATE	5.315	69	72765	4.95	PPBV		88
64) METHYL ISOBUTYL KETONE	6.039	58	73624	4.88	PPBV		79
65) CIS-1,3-DICHLOROPROPENE	5.939	75	122774	4.78	PPBV		97
66) TOLUENE	7.129	91	237199	5.09	PPBV		98
67) 1,3-DICHLOROPROPANE	7.183	76	121971	5.06	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	6.605	75	107017	4.46	PPBV		97
69) 1,1,2-TRICHLOROETHANE	6.762	83	68995	5.00	PPBV		96
70) 2-HEXANONE	7.695	58	99491	5.01	PPBV	#	79
71) ETHYL METHACRYLATE	7.833	69	125849	4.97	PPBV		95
72) TETRACHLOROETHENE	8.846	164	87888	5.13	PPBV		97
73) DIBROMOCHLOROMETHANE	7.659	129	139976	4.88	PPBV		98
74) 1,2-DIBROMOETHANE	7.997	107	130464	5.30	PPBV		99
75) OCTANE	8.997	43	180997	5.16	PPBV		91
77) 1,1,1,2-TETRACHLOROETHANE	10.055	131	104080	5.17	PPBV		91
78) CHLOROBENZENE	10.042	112	194976	5.29	PPBV		89
79) ETHYLBENZENE	10.920	91	322003	5.30	PPBV		97
80) M,P-XYLENE	11.350	91	506054	10.38	PPBV		99
81) O-XYLENE	12.280	91	257748	5.40	PPBV		95
82) STYRENE	12.067	104	194546	5.23	PPBV		94
83) NONANE	13.402	43	192916	5.27	PPBV		83
84) BROMOFORM	11.158	173	119167	4.90	PPBV		94
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	186265	5.35	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	12.572	75	146270	5.34	PPBV		100
88) ISOPROPYLBENZENE	13.788	120	96509	5.28	PPBV		85
89) BROMOBENZENE	13.646	77	183496	5.30	PPBV		75
90) 2-CHLOROTOLUENE	14.784	126	86951	5.02	PPBV		100
91) N-PROPYLBENZENE	15.128	120	101472	5.12	PPBV		96
92) 4-ETHYLTOLUENE	15.569	105	373811	5.20	PPBV		97
93) 1,3,5-TRIMETHYLBENZENE	15.839	105	312677	5.22	PPBV		94
94) ALPHA-METHYLSTYRENE	16.173	118	154689	5.06	PPBV		96
95) TERT-BUTYLBENZENE	16.498	134	77024	5.33	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	320531	5.29	PPBV		95
97) BENZYL CHLORIDE	16.598	91	250636	4.80	PPBV		92
98) M-DICHLOROBENZENE	16.569	146	206691	5.11	PPBV		96
99) P-DICHLOROBENZENE	16.662	146	210041	5.27	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	196281	5.24	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	94529	5.43	PPBV		84
102) 1,2,3-TRIMETHYLBENZENE	16.935	105	310890	5.23	PPBV		95
103) P-ISOPROPYLTOLUENE	17.009	134	102620	5.24	PPBV		93
104) N-BUTYLBENZENE	17.379	134	99471	5.28	PPBV		79
105) HEXACHLOROETHANE	17.559	117	121985	5.22	PPBV		97
106) HEXACHLOROBUTADIENE	18.630	225	144324	5.62	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.315	180	179655	5.43	PPBV		100
108) NAPHTHALENE	18.363	128	413175	5.36	PPBV		100
110) TVHC as equiv Pentane	2.238	TIC	315100	5.18	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

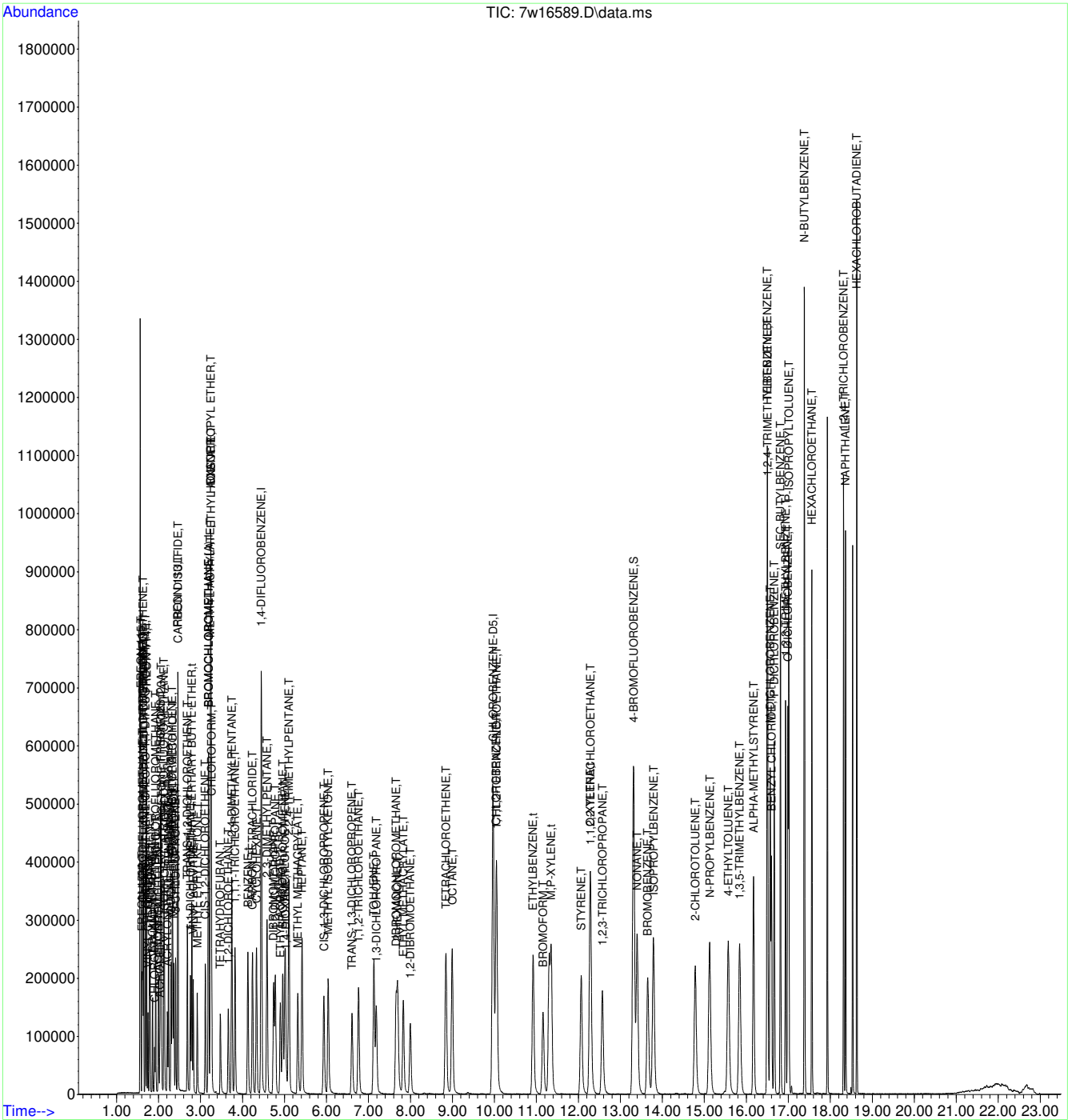
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

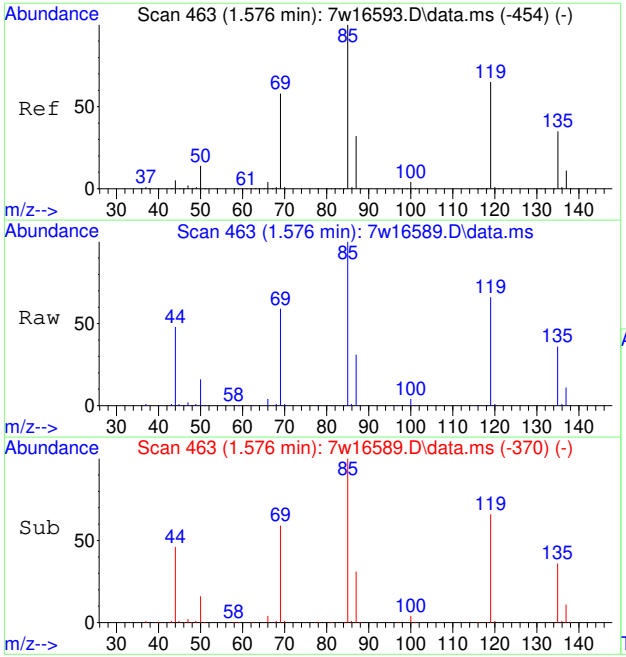
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

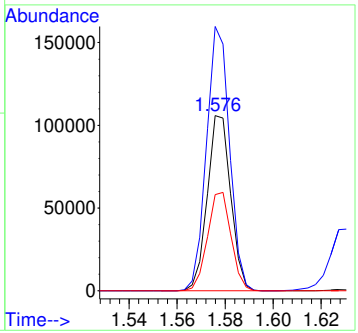


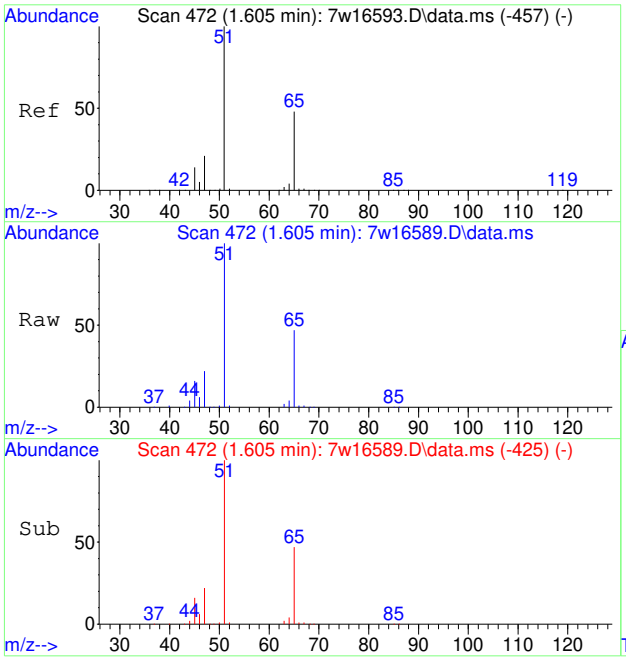


#2
FREON 115
Concen: 5.05 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:119 Resp: 71924

Ion	Ratio	Lower	Upper
119	100		
85	148.1	90.9	168.7
135	56.4	38.2	71.0

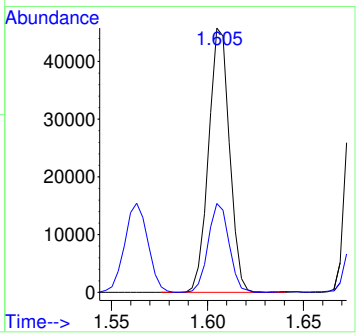


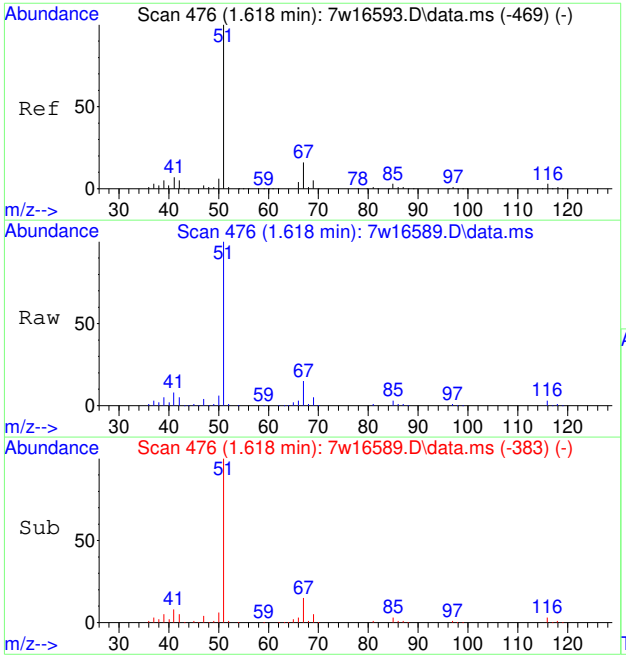


#3
FREON 152A
Concen: 5.11 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 34756

Ion	Ratio	Lower	Upper
65	100		
45	33.5	20.6	38.4

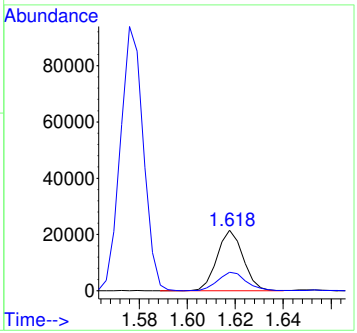


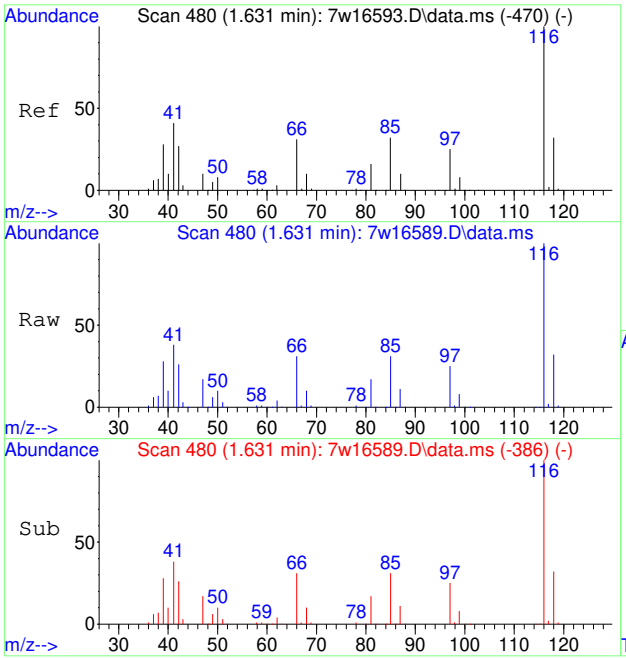


#4
CHLORODIFLUOROMETHANE
Concen: 5.26 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 16247

Ion	Ratio	Lower	Upper
67	100		
69	33.3	25.4	47.2

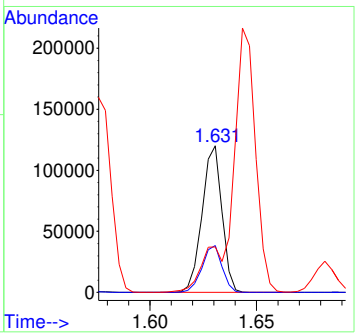


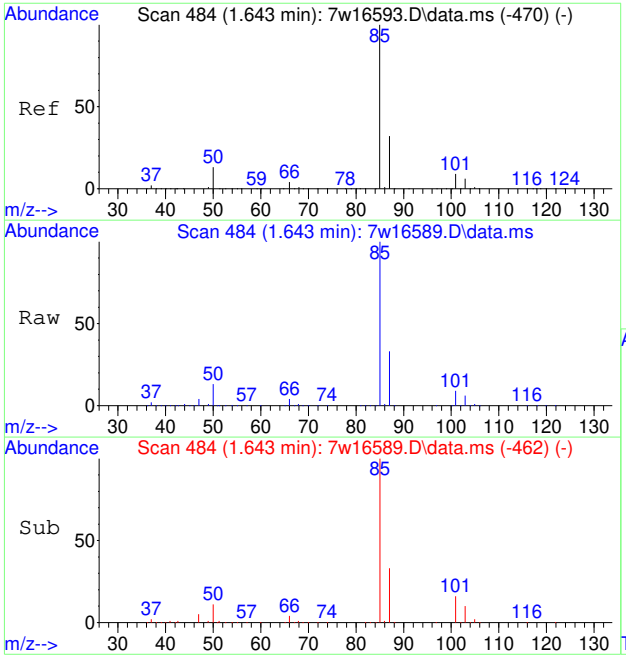


#5
CHLOROTRIFLUOROETHENE
Concen: 5.13 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:116 Resp: 77653

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.7	42.1
85	219.4	194.7	361.7

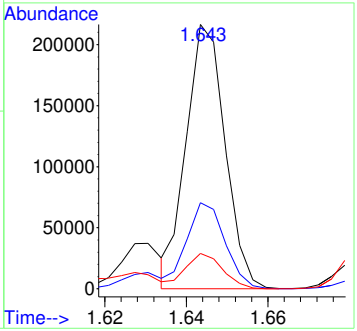


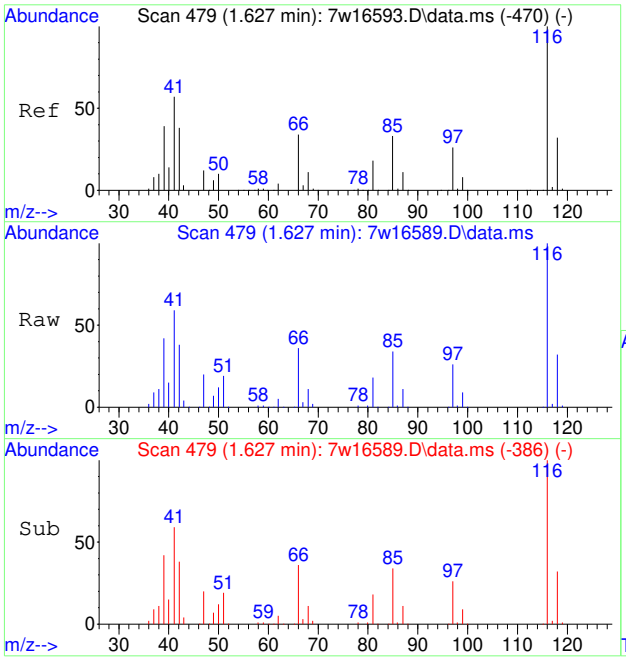


#6
DICHLORODIFLUOROMETHANE
Concen: 4.36 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 143733

Ion	Ratio	Lower	Upper
85	100		
87	38.6	23.1	42.9
50	22.8	12.1	22.5#

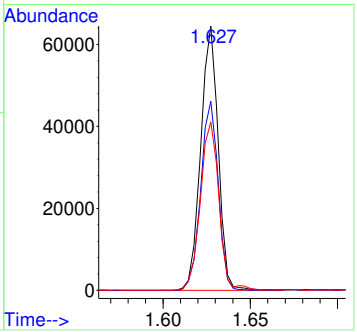


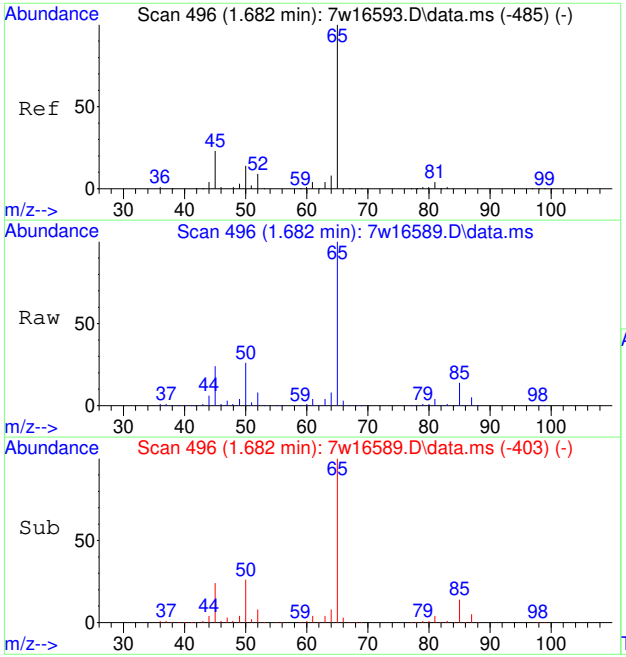


#7
PROPYLENE
Concen: 5.15 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 44998

Ion	Ratio	Lower	Upper
41	100		
39	71.7	51.0	94.8
42	67.5	46.6	86.6

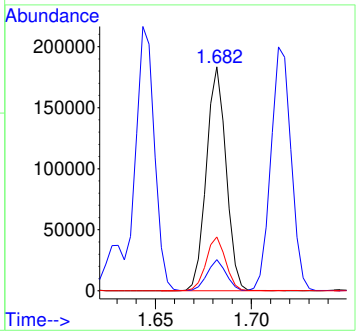


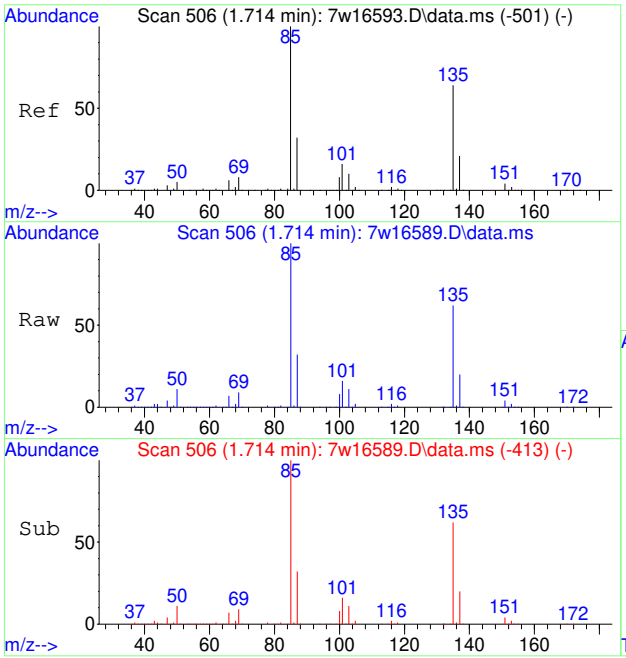


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 5.33 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 131345

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.7	17.9
45	23.8	17.0	31.6

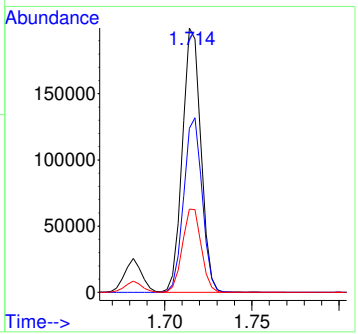


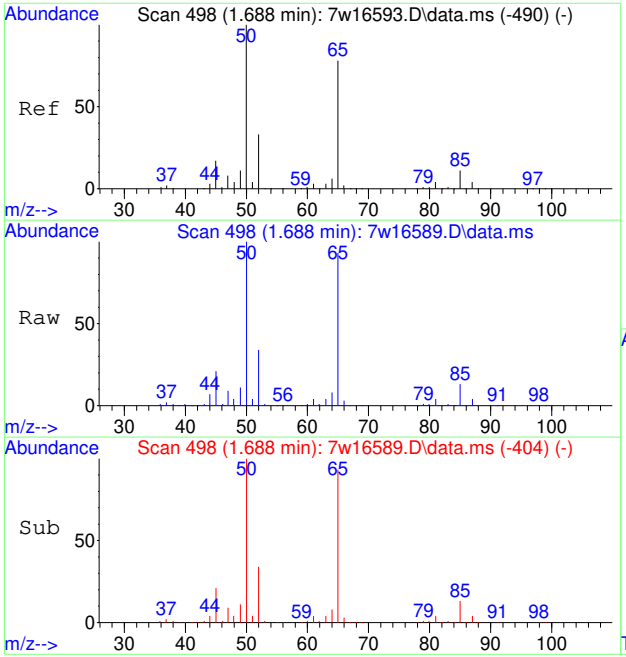


#9
FREON 114
Concen: 5.09 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 147028

Ion	Ratio	Lower	Upper
85	100		
135	66.0	61.3	113.9
87	32.2	23.2	43.0

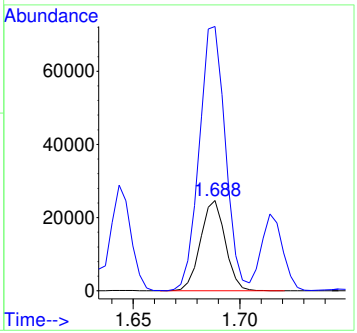


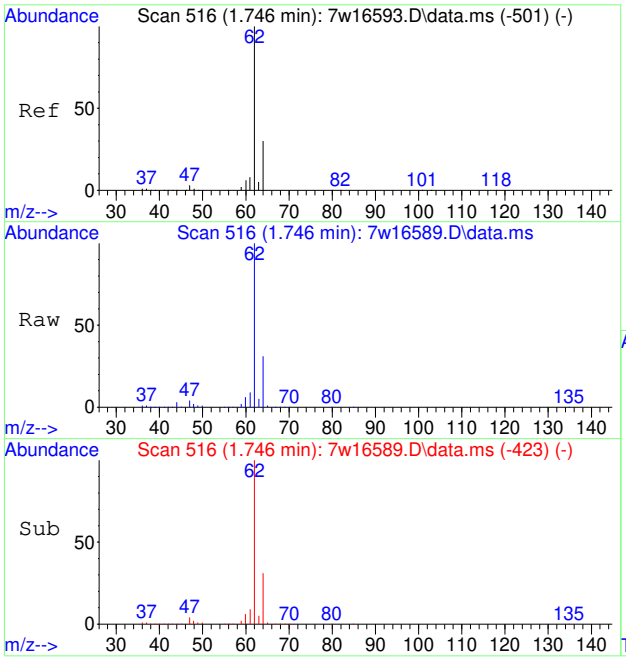


#10
CHLOROMETHANE
Concen: 5.36 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 19944

Ion	Ratio	Lower	Upper
52	100		
50	315.9	227.6	422.6

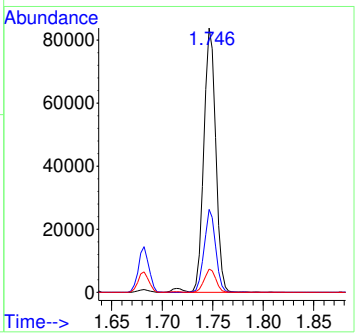


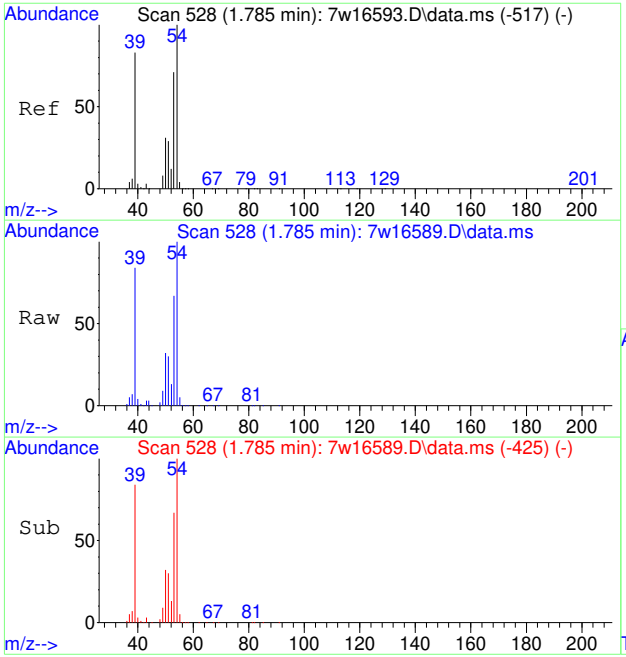


#11
VINYL CHLORIDE
Concen: 5.02 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 69360

Ion	Ratio	Lower	Upper
62	100		
64	29.9	21.6	40.2
61	8.5	5.7	10.7

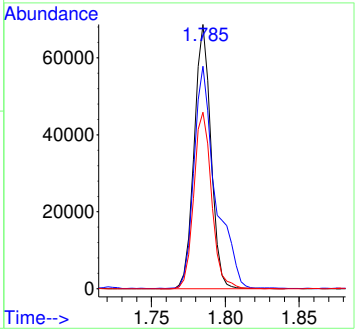


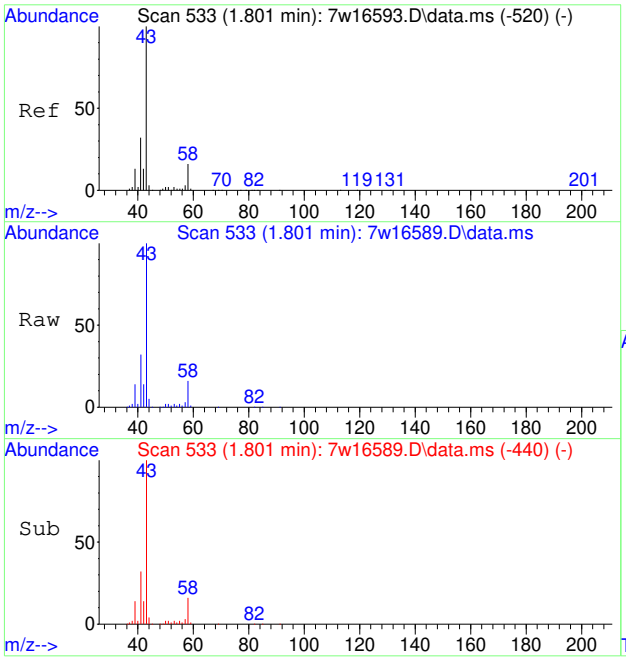


#12
1,3-BUTADIENE
Concen: 5.04 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 54 Resp: 53869

Ion	Ratio	Lower	Upper
54	100		
39	107.8	125.6	185.6#
53	71.3	40.7	100.7

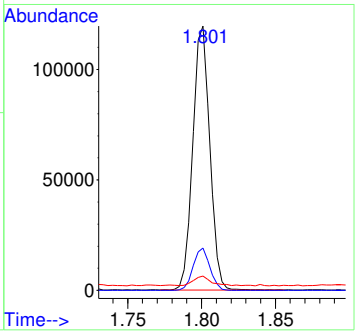


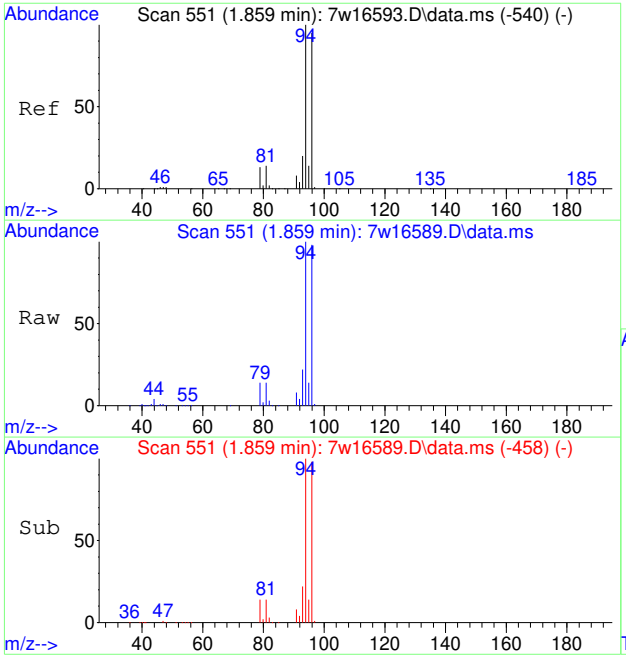


#13
N-BUTANE
Concen: 5.23 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 95908

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	4.1	3.0	5.6

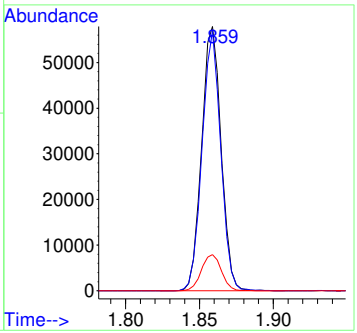


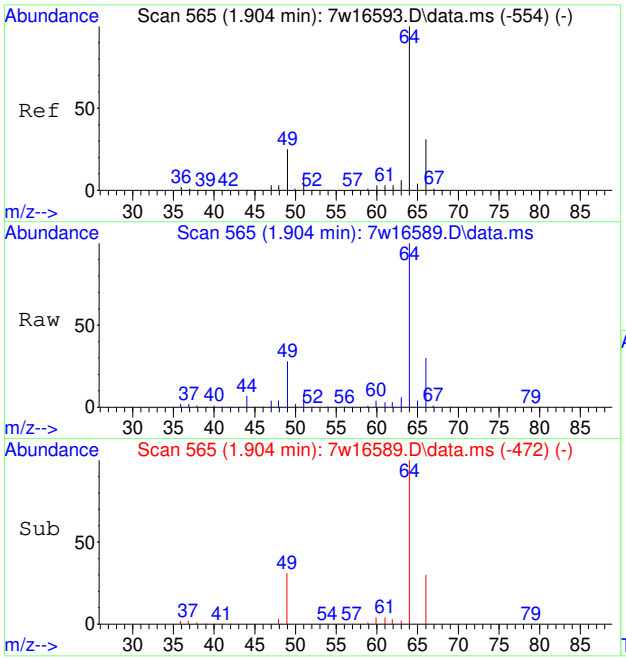


#14
BROMOMETHANE
Concen: 5.02 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 94 Resp: 52720

Ion	Ratio	Lower	Upper
94	100		
96	94.3	63.6	118.0
95	14.1	10.0	18.6

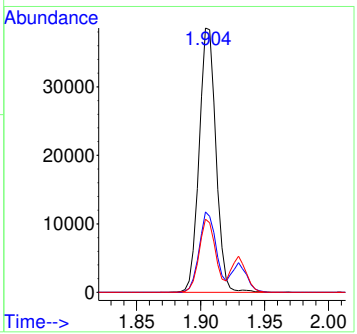


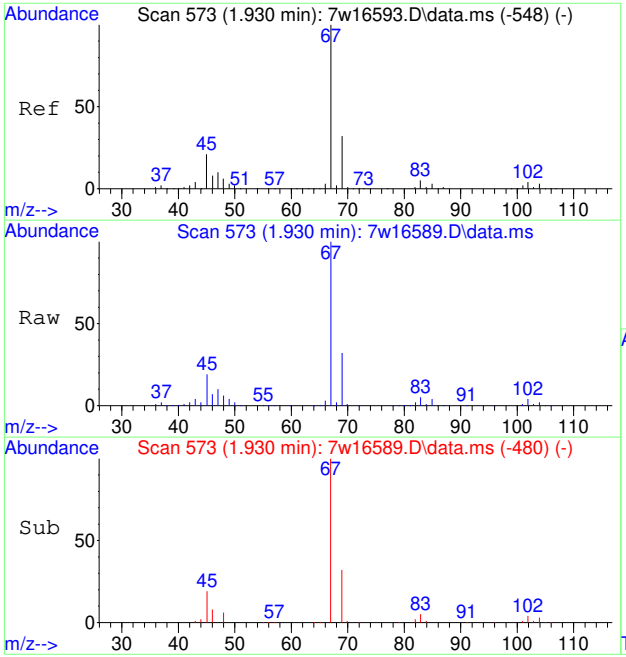


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 64 Resp: 35268

Ion	Ratio	Lower	Upper
64	100		
66	41.1	23.0	42.6
49	27.7	21.5	39.9

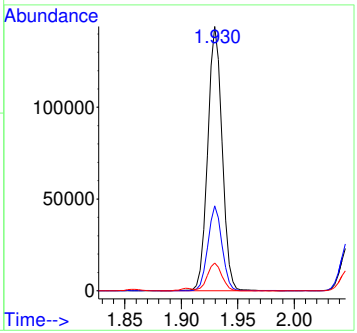


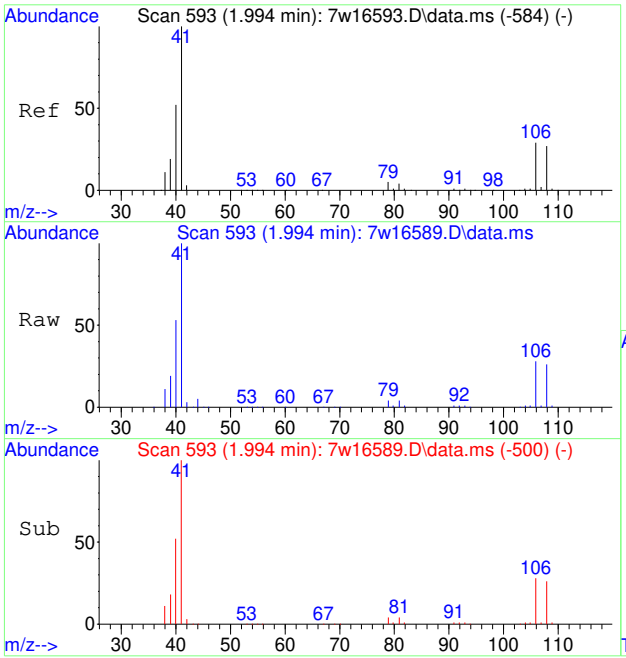


#16
DICHLOROFLUOROMETHANE
Concen: 4.88 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 127414

Ion	Ratio	Lower	Upper
67	100		
69	31.5	23.2	43.0
47	11.4	9.6	17.8

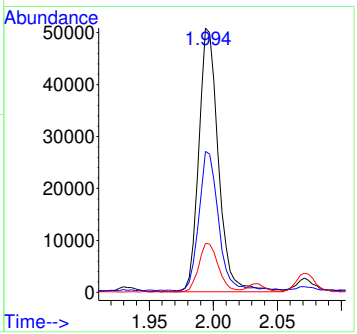


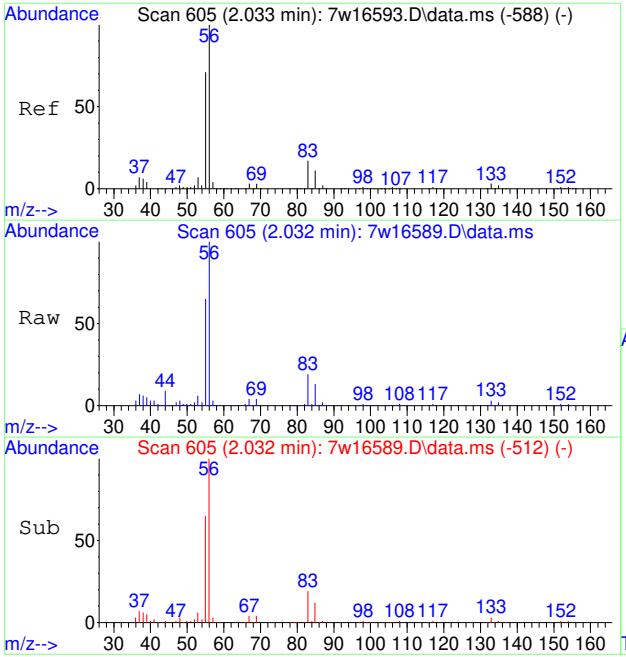


#17
ACETONITRILE
Concen: 4.71 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 54085

Ion	Ratio	Lower	Upper
41	100		
40	53.0	38.4	71.4
39	18.5	14.5	26.9

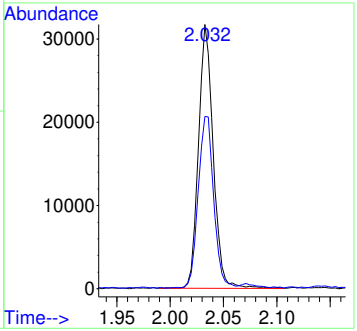


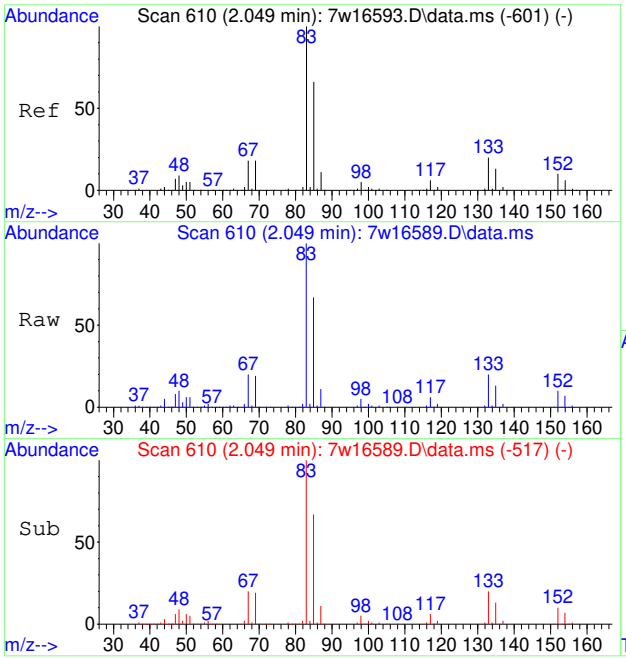


#18
ACROLEIN
Concen: 5.10 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 56 Resp: 30491

Ion	Ratio	Lower	Upper
56	100		
55	70.7	51.2	95.2

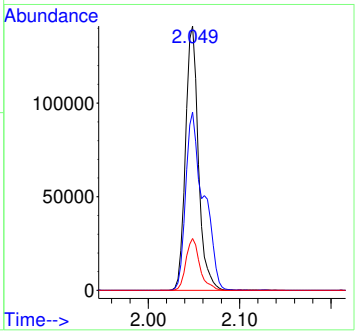


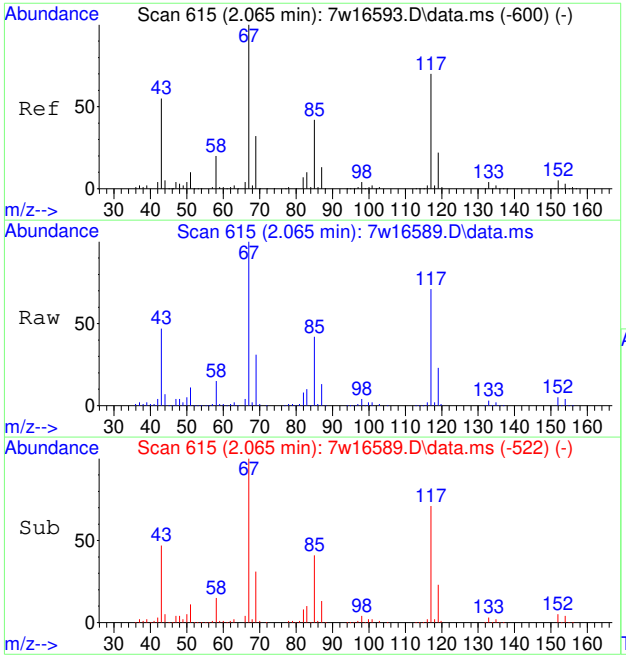


#19
FREON 123
Concen: 5.20 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 138654

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.1	19.9	36.9

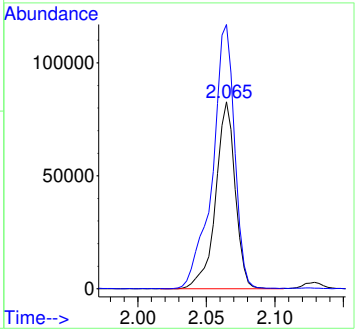


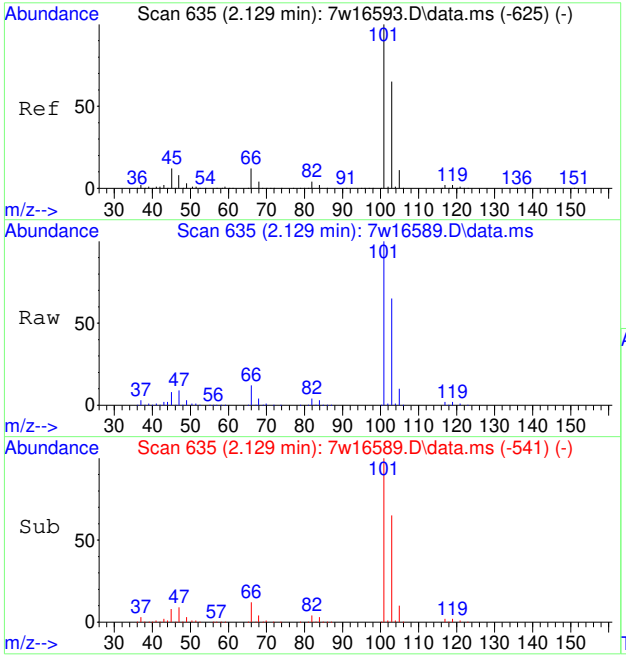


#20
FREON 123A
Concen: 5.24 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 81977

Ion	Ratio	Lower	Upper
117	100		
67	160.0	78.8	146.4#

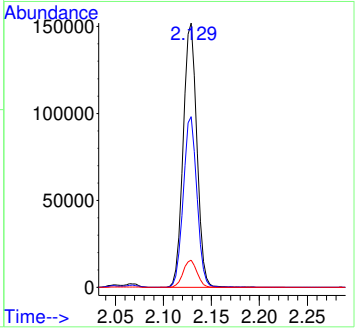


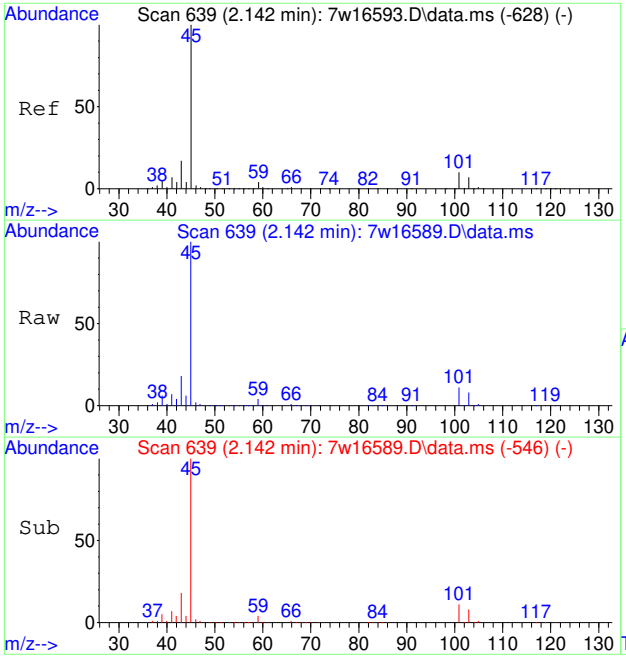


#21
TRICHLOROFLUOROMETHANE
Concen: 4.96 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:101 Resp: 150765

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.6	7.3	13.7

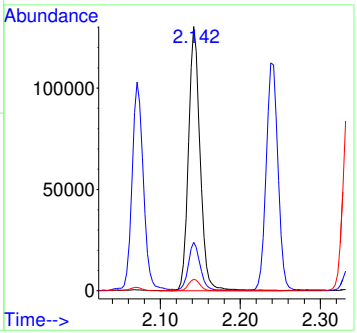


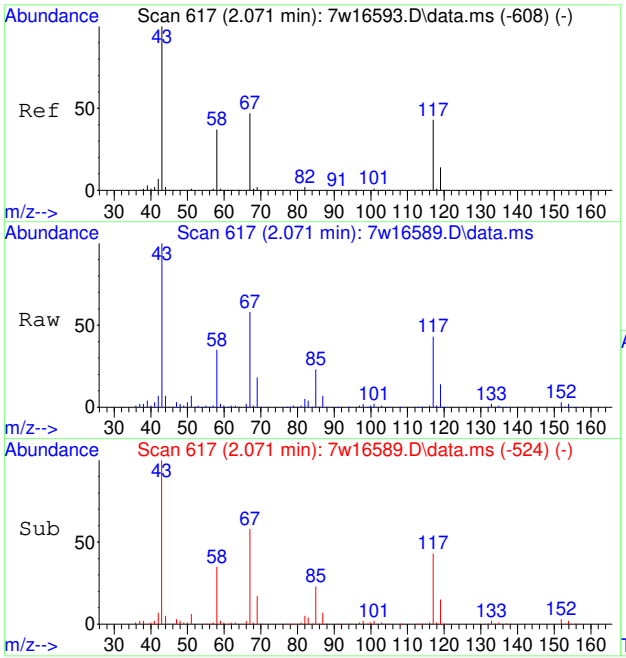


#22
ISOPROPYL ALCOHOL
Concen: 5.23 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 131851

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.4	3.1	5.8

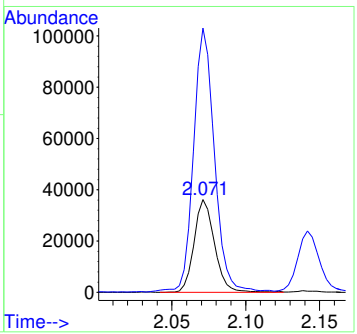


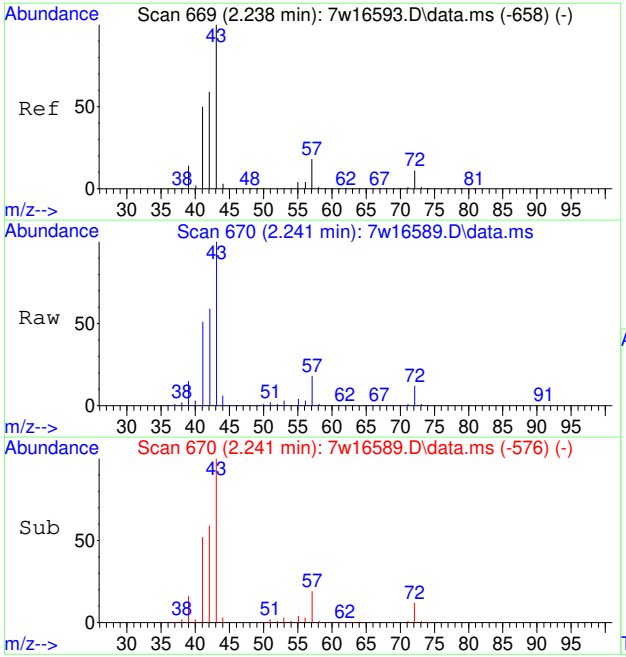


#23
ACETONE
Concen: 5.00 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 34925

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

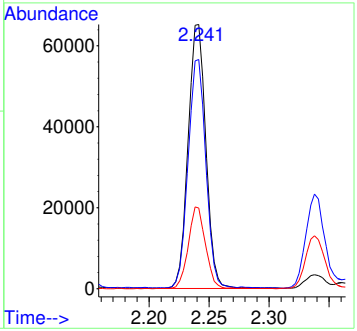


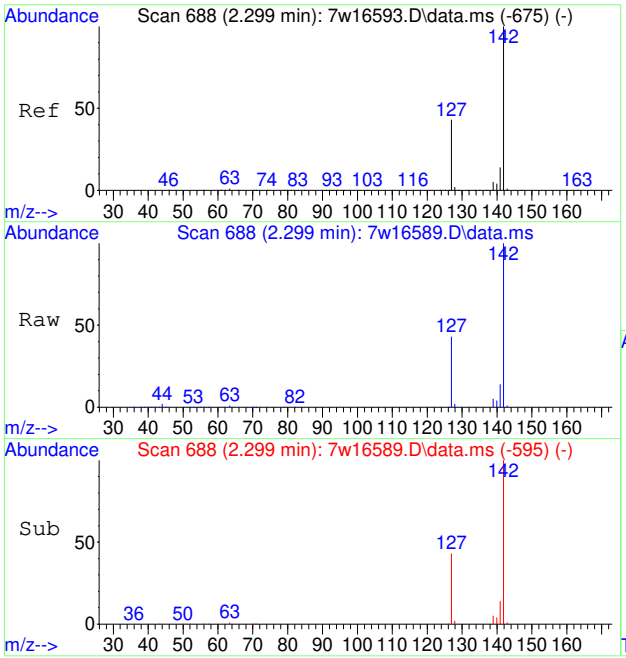


#24
PENTANE
Concen: 5.17 PPBV
RT: 2.241 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 42 Resp: 67328

Ion	Ratio	Lower	Upper
42	100		
41	86.9	69.2	128.6
57	30.5	18.6	34.6

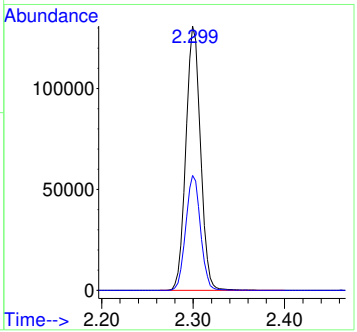


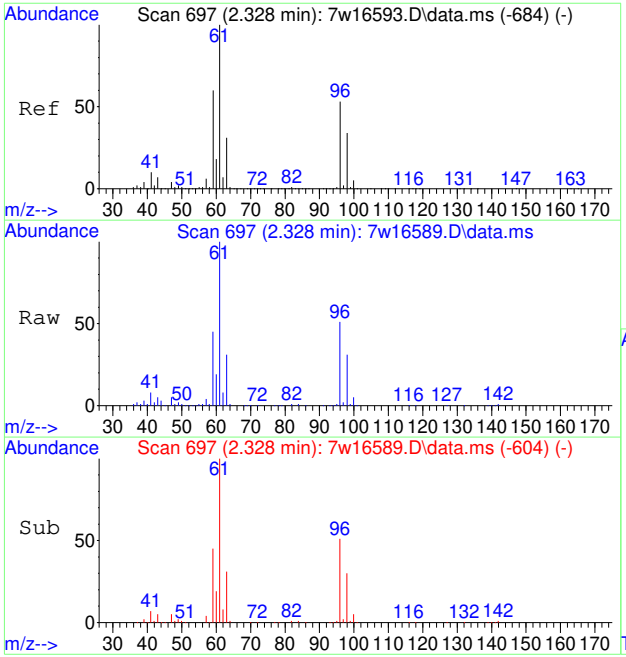


#25
IODOMETHANE
Concen: 5.22 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:142 Resp: 145418

Ion	Ratio	Lower	Upper
142	100		
127	43.8	32.1	59.7

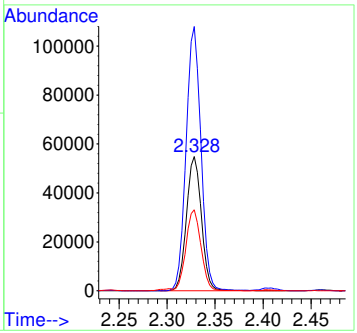


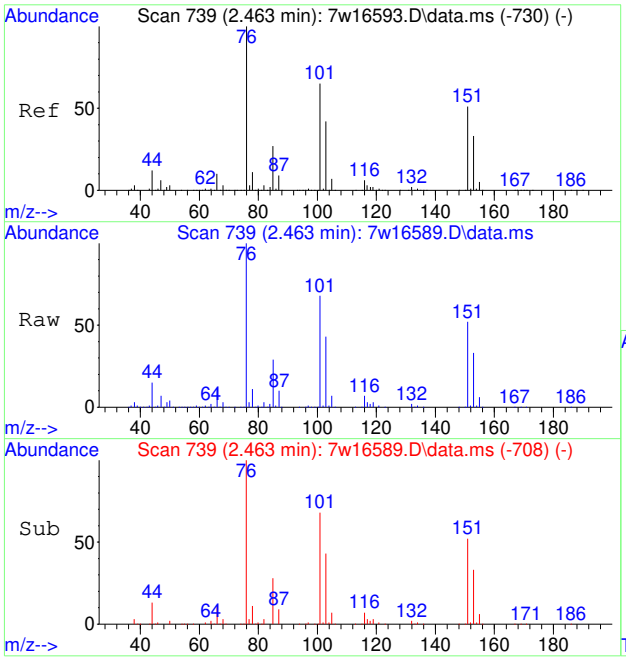


#26
1,1-DICHLOROETHYLENE
Concen: 5.29 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 59691

Ion	Ratio	Lower	Upper
96	100		
61	195.1	98.3	182.5#
63	61.9	33.2	61.7#

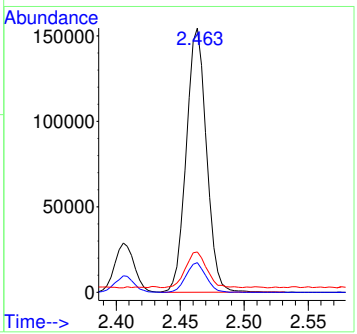


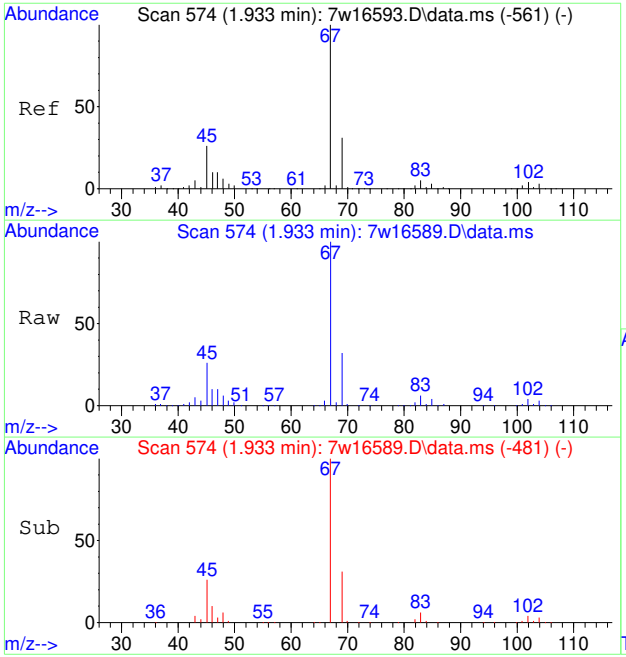


#27
CARBON DISULFIDE
Concen: 5.18 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 169676

Ion	Ratio	Lower	Upper
76	100		
78	11.2	8.3	15.3
44	14.4	13.0	24.1

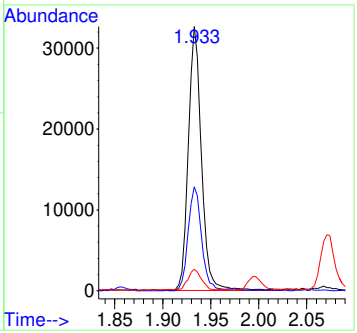


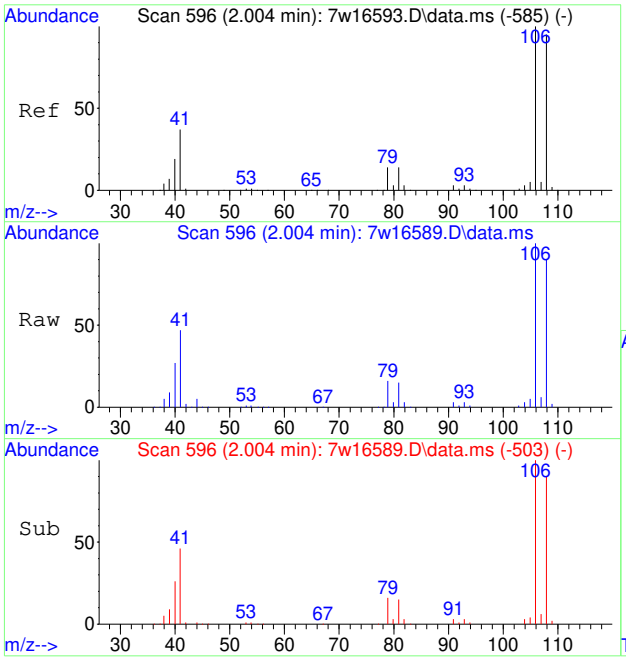


#28
ETHANOL
Concen: 4.82 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 31099

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.7	55.1
42	9.0	7.3	13.5

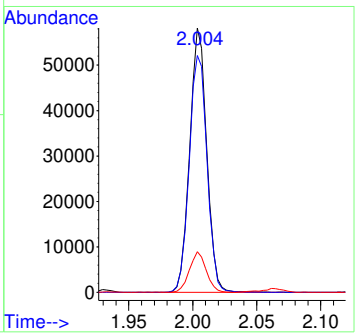


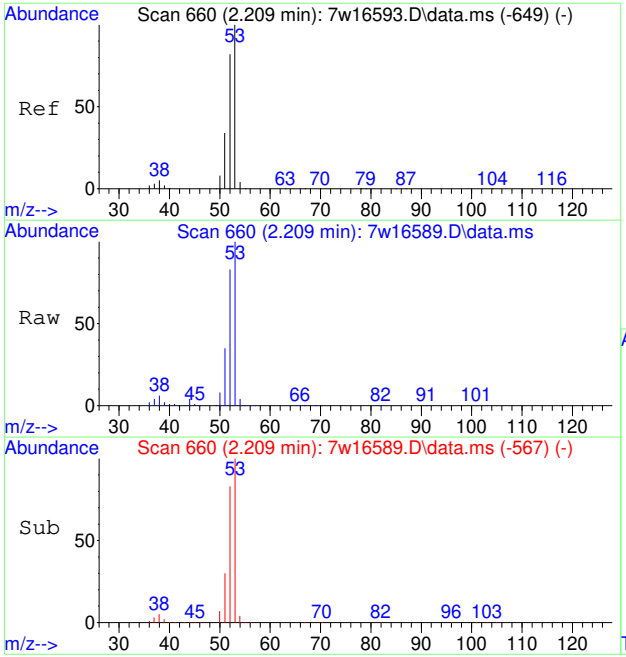


#29
BROMOETHENE
Concen: 4.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:106 Resp: 53853

Ion	Ratio	Lower	Upper
106	100		
108	93.9	68.3	126.8
81	15.2	14.7	27.3

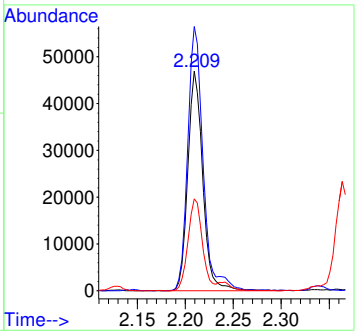


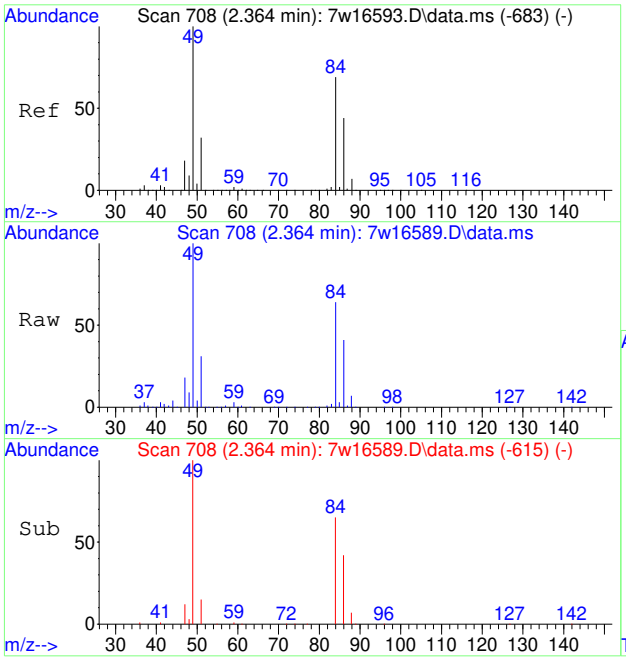


#30
ACRYLONITRILE
Concen: 5.27 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 50954

Ion	Ratio	Lower	Upper
52	100		
53	124.0	86.3	160.3
51	44.3	33.6	62.4

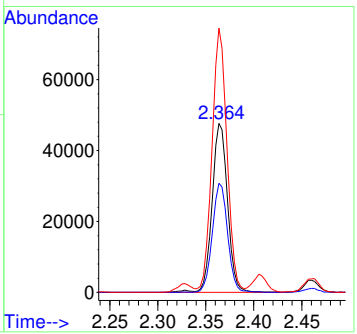


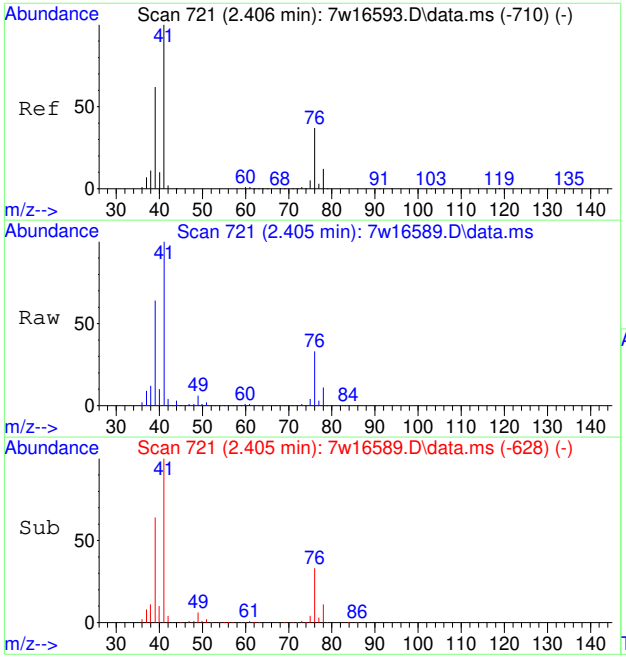


#31
METHYLENE CHLORIDE
Concen: 5.00 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 53489

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.9	83.5
49	151.5	79.7	148.1#

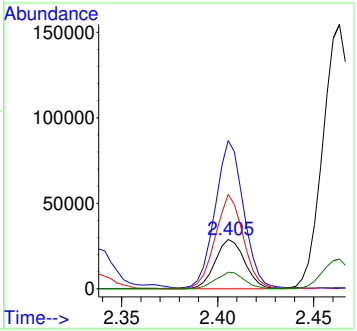


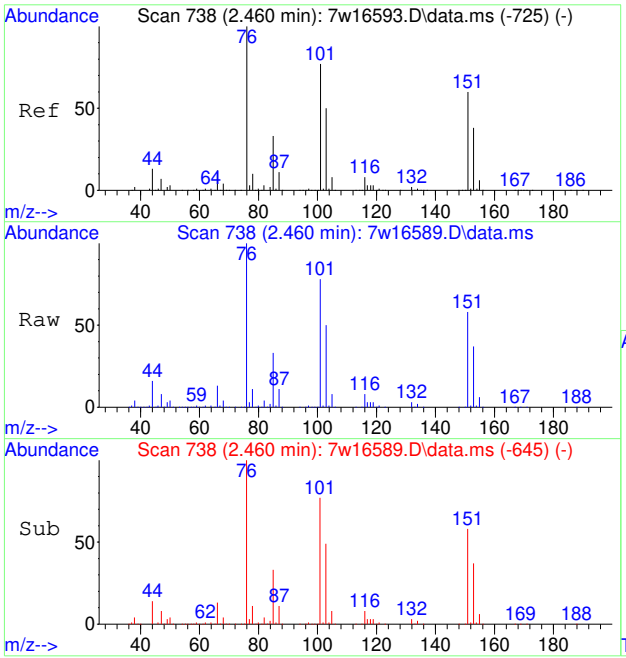


#32
3-CHLOROPROPENE
Concen: 5.04 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 30822

Ion	Ratio	Lower	Upper
76	100		
41	292.3	160.9	298.9
39	181.9	150.7	279.9
78	33.1	22.7	42.1

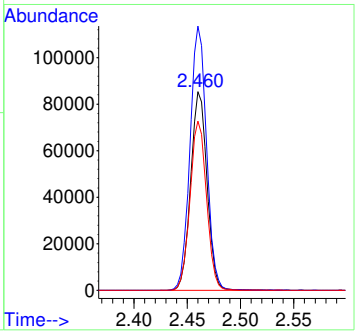


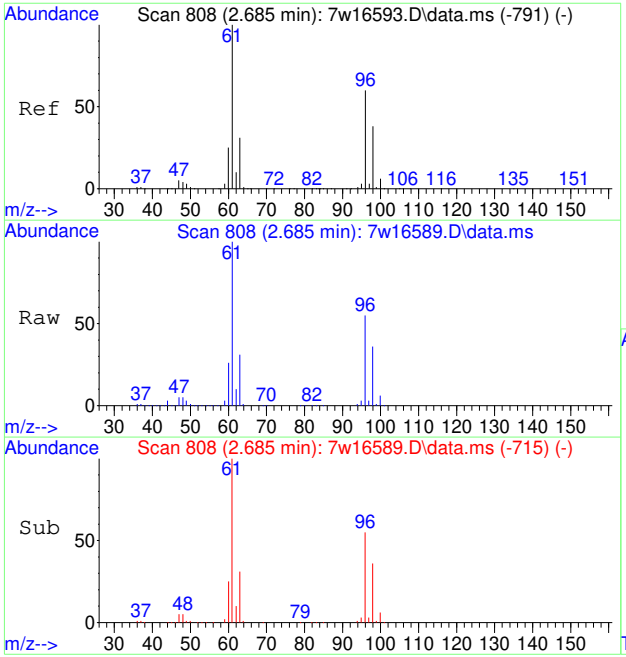


#33
FREON 113
Concen: 5.19 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:151 Resp: 91200

Ion	Ratio	Lower	Upper
151	100		
101	134.2	81.1	150.7
103	85.8	51.4	95.4

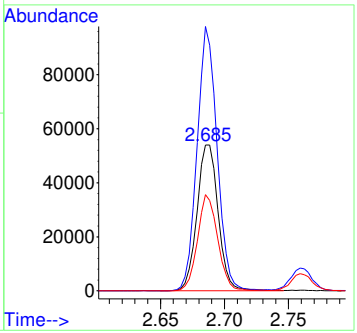


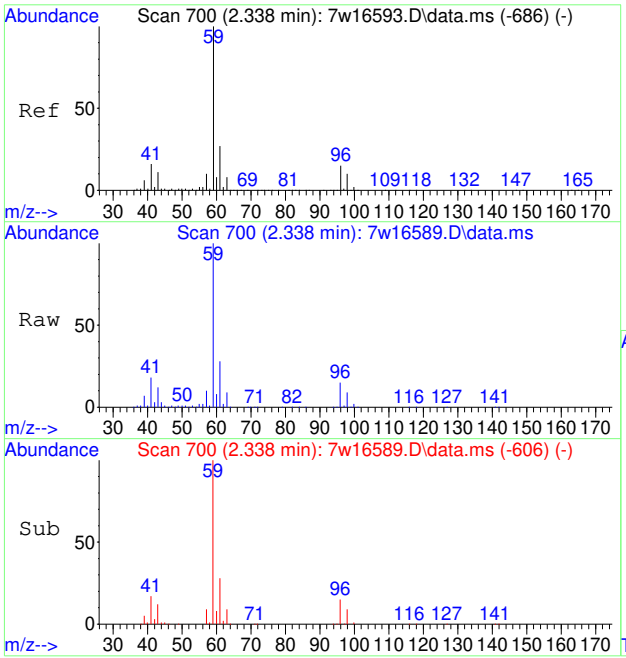


#34
TRANS-1,2-DICHLOROETHENE
Concen: 5.00 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 62237

Ion	Ratio	Lower	Upper
96	100		
61	171.0	78.5	145.9#
98	63.0	46.5	86.3

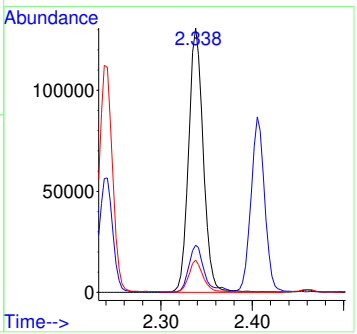


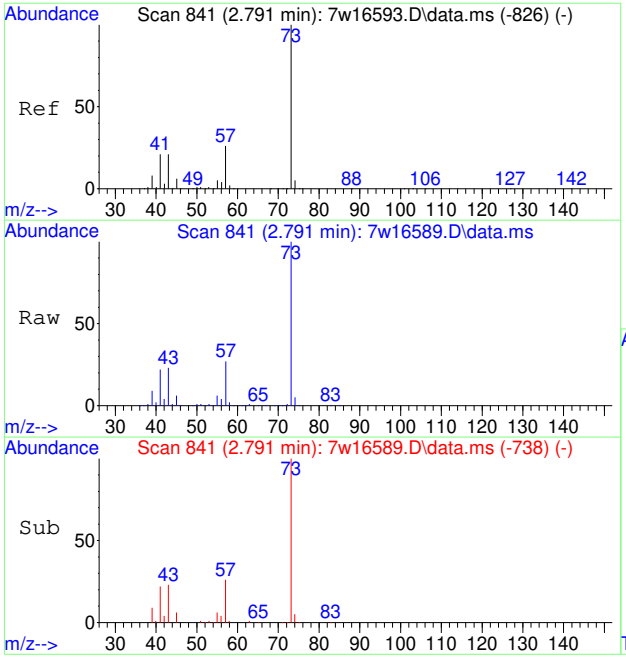


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.75 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 146023

Ion	Ratio	Lower	Upper
59	100		
41	18.7	15.3	28.5
43	11.5	12.3	22.9#

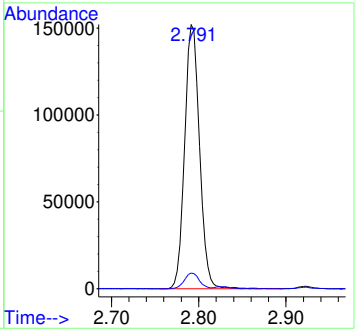


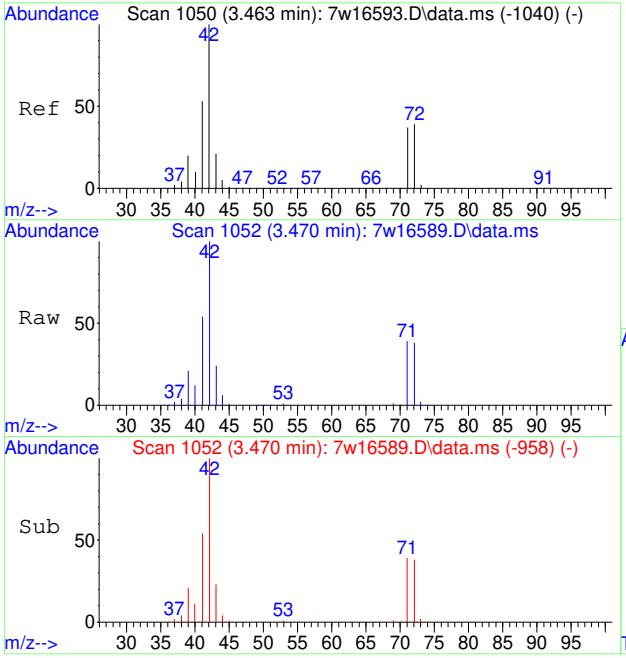


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.12 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 73 Resp: 180915

Ion	Ratio	Lower	Upper
73	100		
45	5.9	3.4	6.4

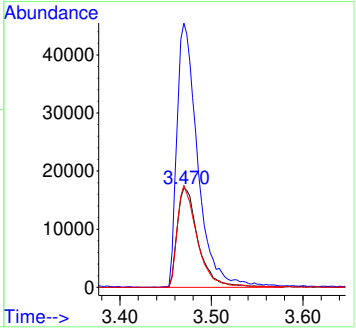


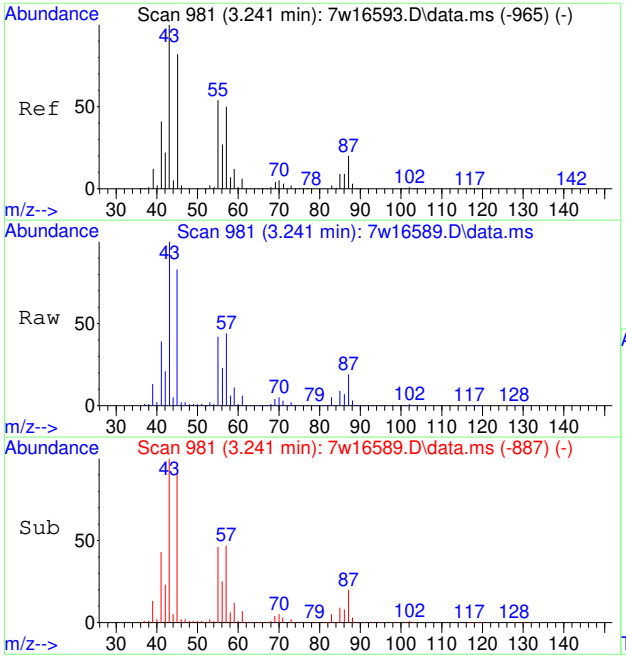


#37
TETRAHYDROFURAN
Concen: 4.64 PPBV
RT: 3.470 min Scan# 1052
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 27419

Ion	Ratio	Lower	Upper
72	100		
42	267.5	153.0	284.2
71	97.0	62.7	116.5

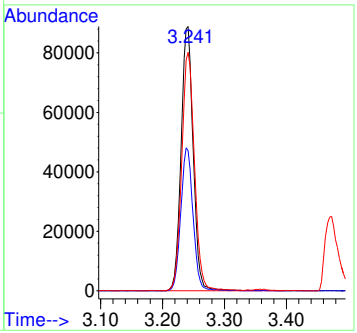


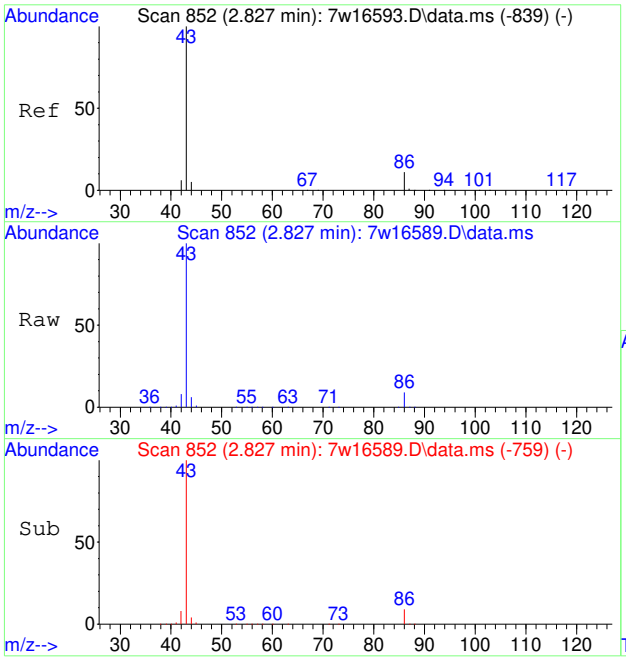


#38
HEXANE
Concen: 5.18 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 121135

Ion	Ratio	Lower	Upper
57	100		
56	54.5	37.3	69.3
41	95.1	86.7	161.1

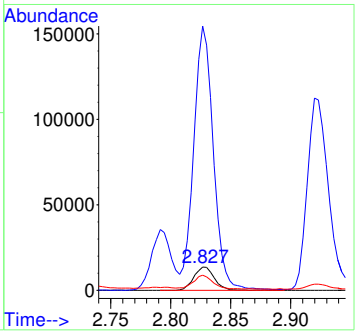


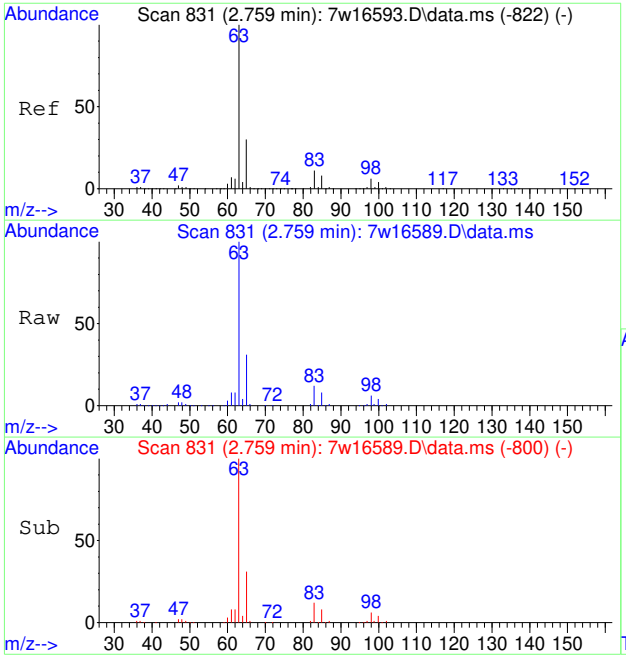


#39
VINYL ACETATE
Concen: 4.75 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 86 Resp: 16334

Ion	Ratio	Lower	Upper
86	100		
43	1085.5	667.9	1240.3
44	60.0	32.7	60.7

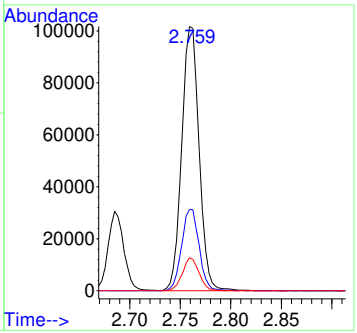


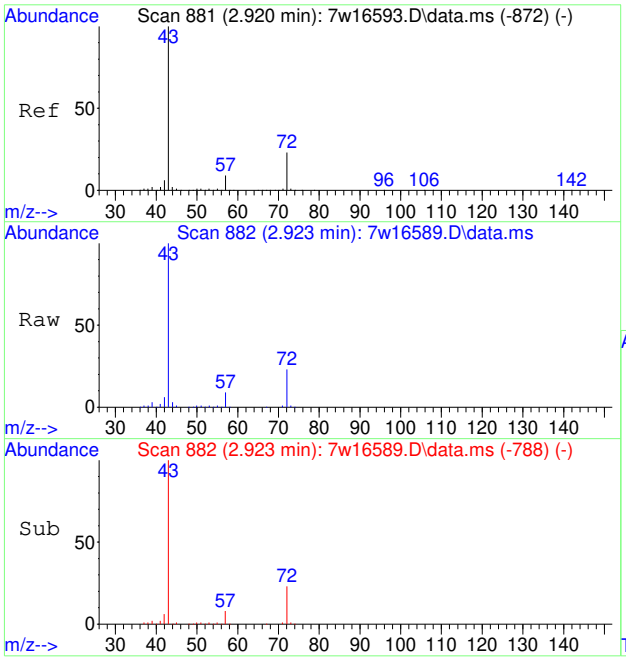


#40
1,1-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 121863

Ion	Ratio	Lower	Upper
63	100		
65	31.1	21.8	40.6
83	12.0	10.6	19.6

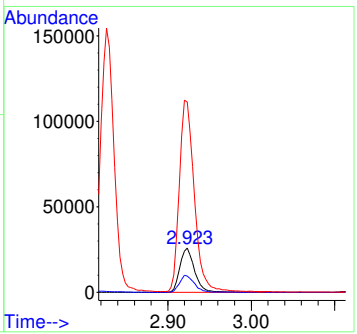


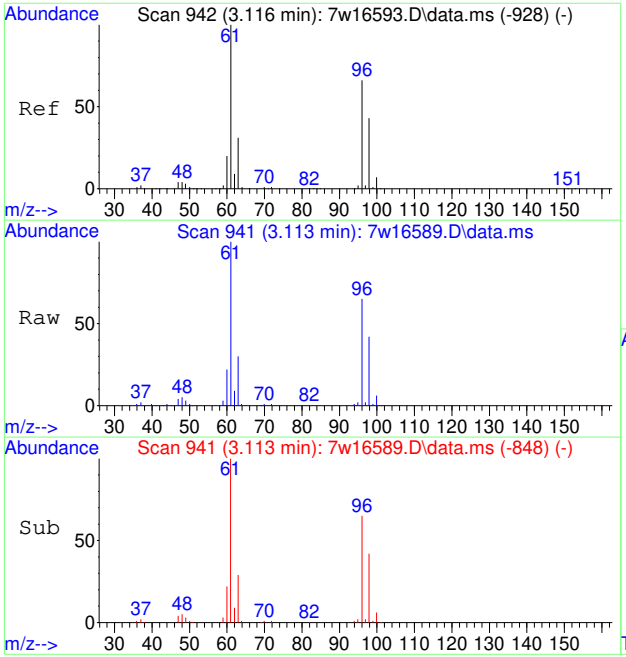


#41
METHYL ETHYL KETONE
Concen: 5.07 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 31986

Ion	Ratio	Lower	Upper
72	100		
57	39.2	20.3	37.7#
43	443.0	282.8	525.2

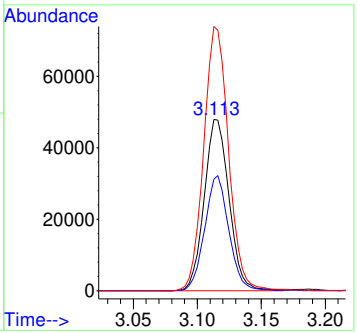


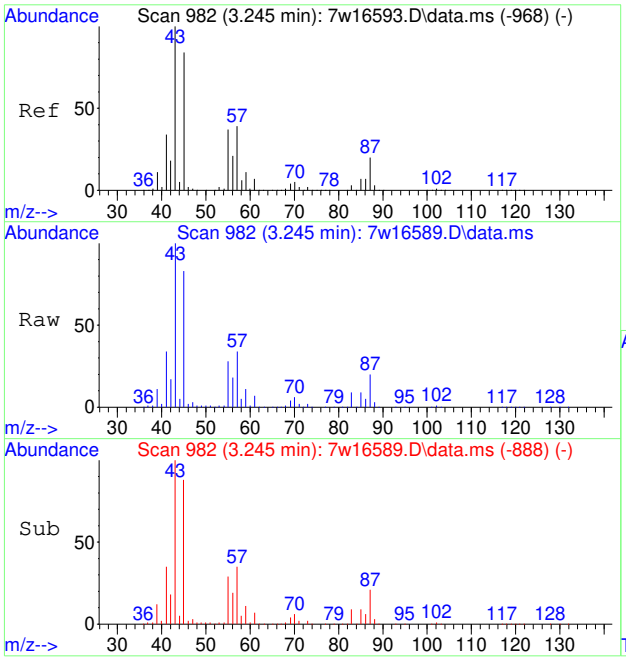


#42
CIS-1,2-DICHLOROETHENE
Concen: 5.01 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 64888

Ion	Ratio	Lower	Upper
96	100		
98	65.5	46.8	86.8
61	154.3	78.3	145.5#

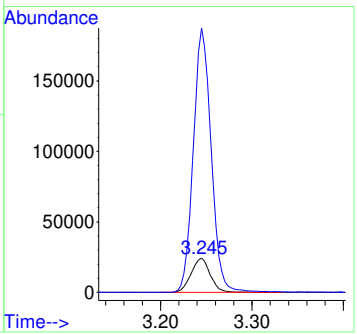


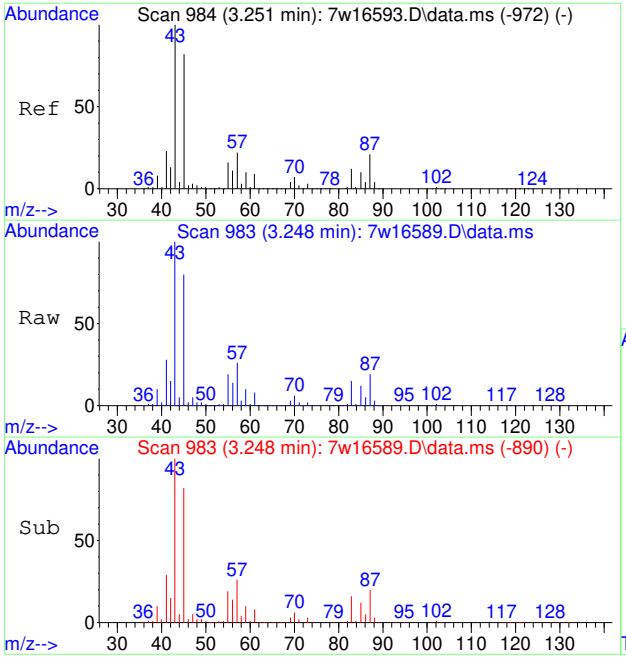


#43
DIISOPROPYL ETHER
Concen: 5.24 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 35230

Ion	Ratio	Lower	Upper
59	100		
45	724.5	532.1	988.1

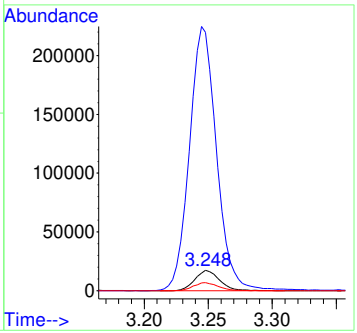


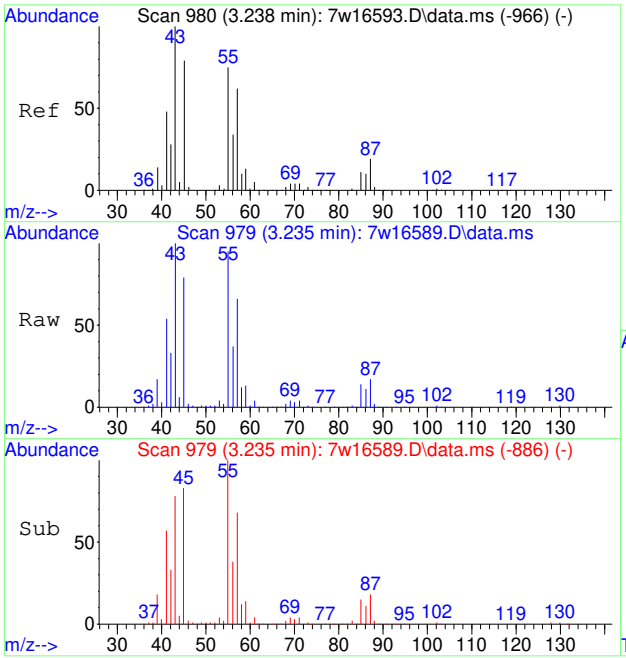


#44
ETHYL ACETATE
Concen: 4.98 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 61 Resp: 23700

Ion	Ratio	Lower	Upper
61	100		
43	1408.7	1127.5	2093.9
88	40.8	36.2	67.2

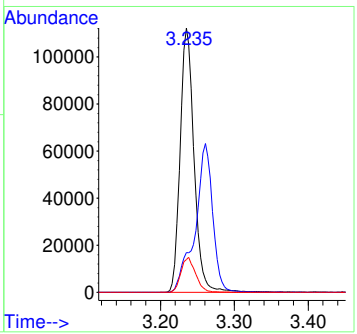


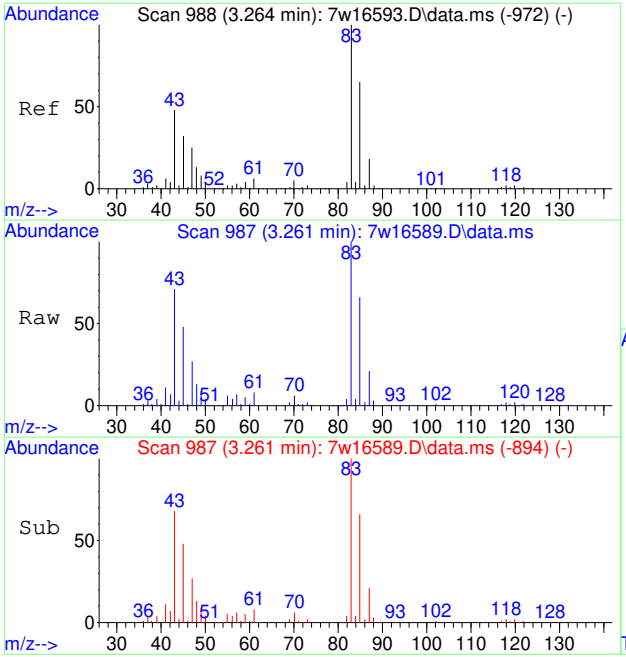


#45
METHYL ACRYLATE
Concen: 5.10 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 147700

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

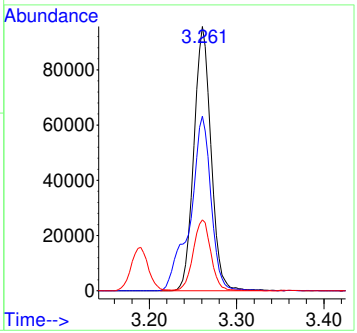


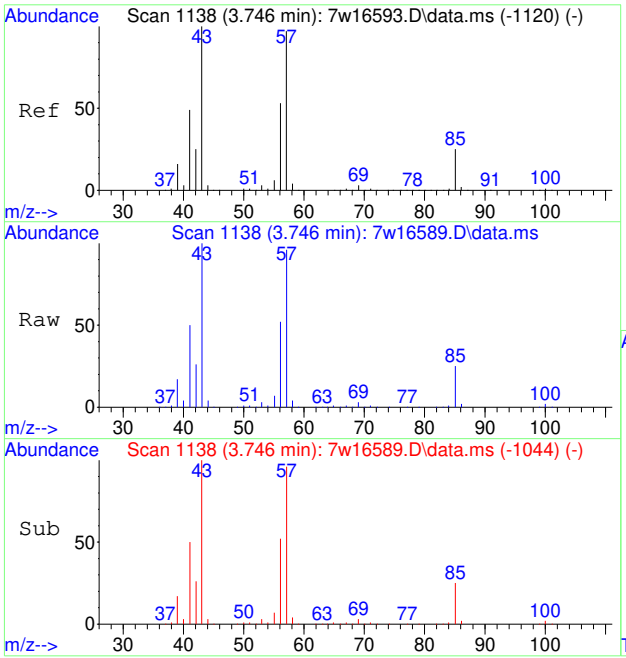


#46
CHLOROFORM
Concen: 5.10 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 130788

Ion	Ratio	Lower	Upper
83	100		
85	80.1	54.6	101.4
47	27.9	17.9	33.3

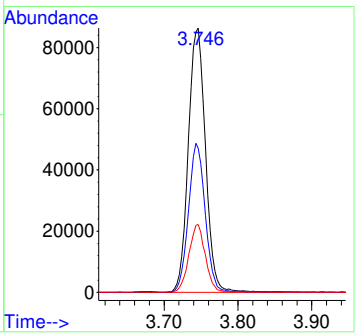


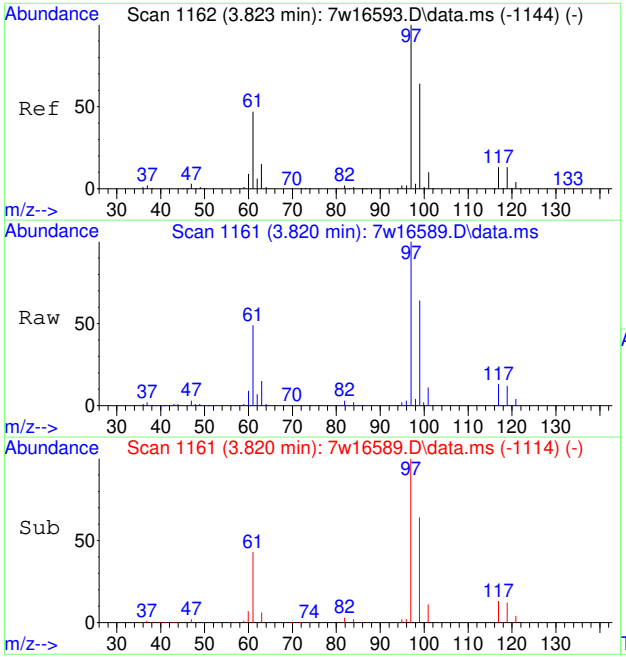


#47
2,4-DIMETHYLPENTANE
Concen: 5.24 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 139904

Ion	Ratio	Lower	Upper
57	100		
56	55.4	39.2	72.8
85	24.6	24.1	44.7

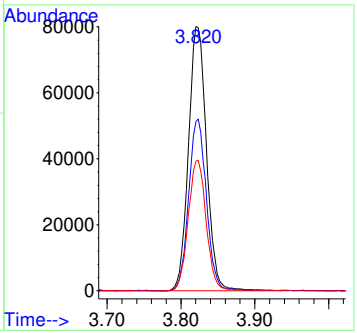


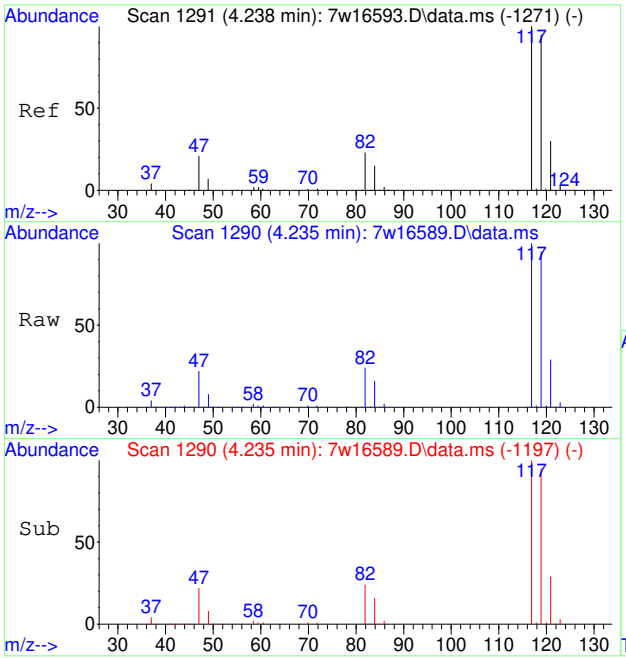


#48
1,1,1-TRICHLOROETHANE
Concen: 5.09 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 97 Resp: 135968

Ion	Ratio	Lower	Upper
97	100		
99	64.1	44.9	83.5
61	49.4	28.6	53.0

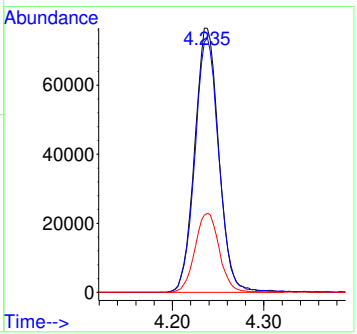


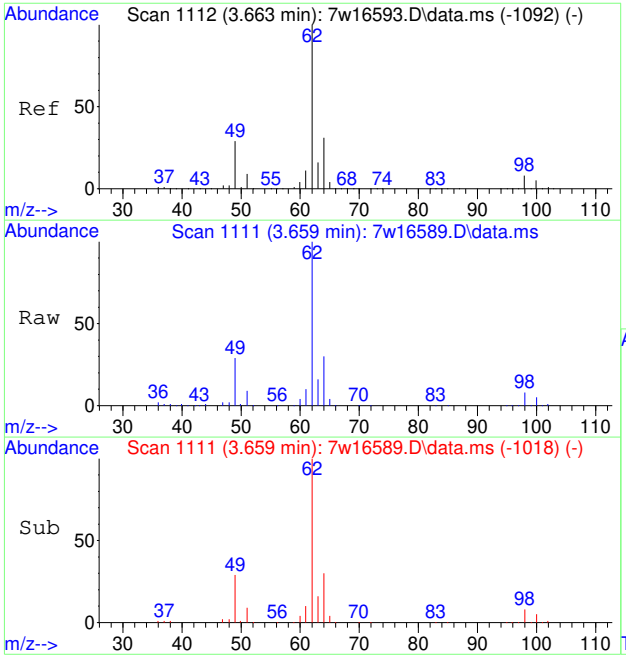


#49
CARBON TETRACHLORIDE
Concen: 4.91 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 140153

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

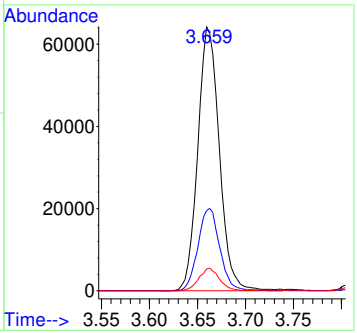


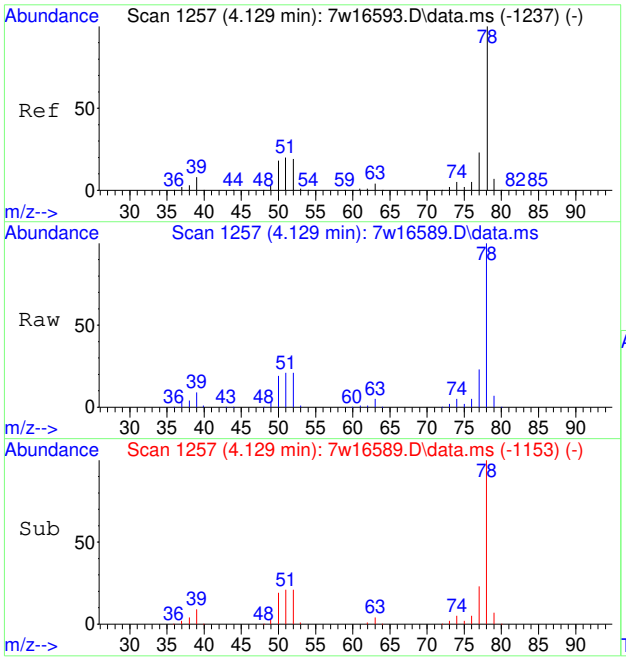


#50
1,2-DICHLOROETHANE
Concen: 5.00 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 100577

Ion	Ratio	Lower	Upper
62	100		
64	31.6	22.5	41.7
98	8.2	6.8	12.6

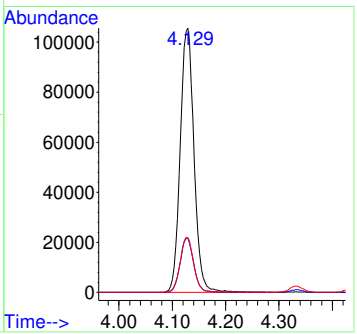


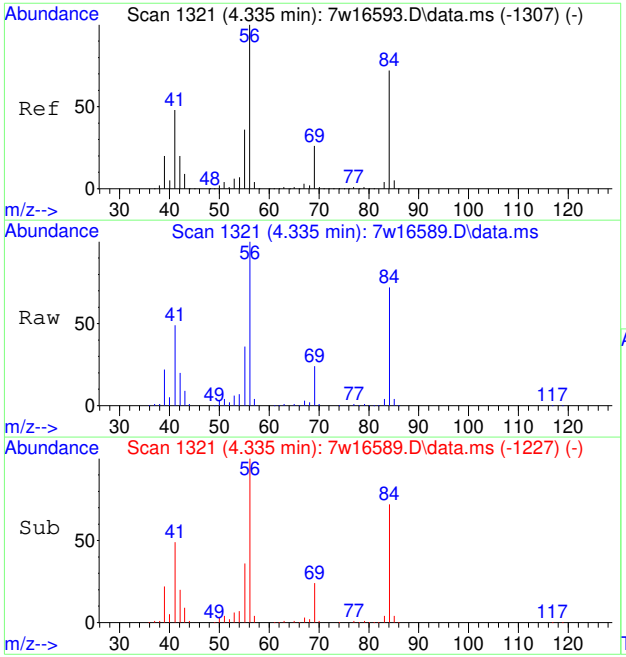


#51
BENZENE
Concen: 5.07 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 78 Resp: 190147

Ion	Ratio	Lower	Upper
78	100		
52	20.1	0.0	44.6
51	20.6	0.0	47.3

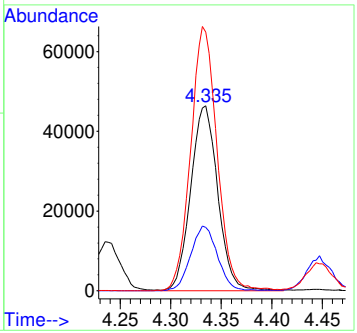


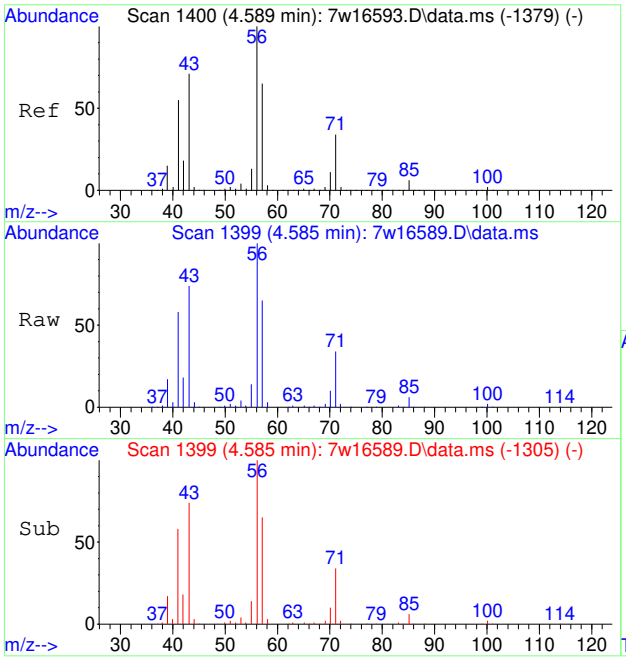


#53
CYCLOHEXANE
Concen: 5.03 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 86740

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	139.2	70.2	130.4#

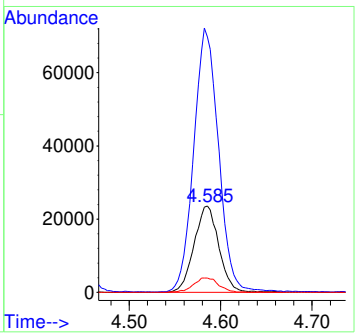


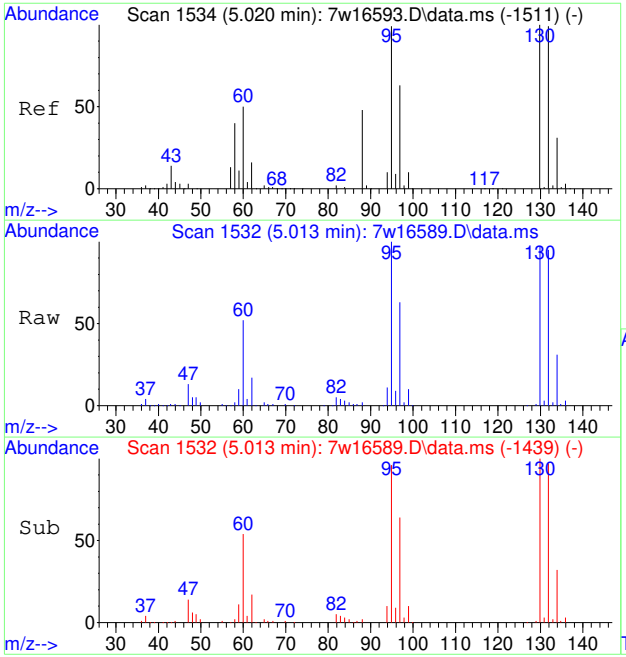


#54
2,3-DIMETHYLPENTANE
Concen: 5.09 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 71 Resp: 44676

Ion	Ratio	Lower	Upper
71	100		
56	304.2	171.4	318.4
85	17.1	12.6	23.4

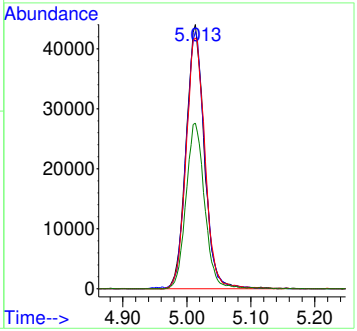


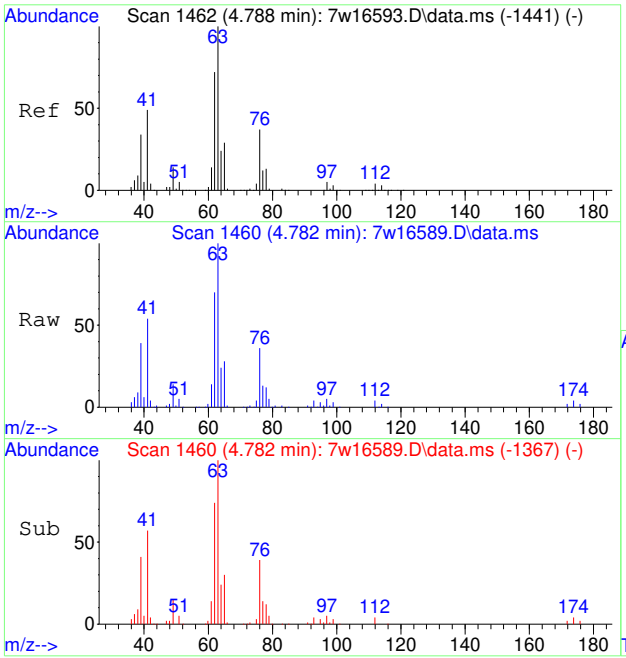


#55
TRICHLOROETHENE
Concen: 4.76 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 95 Resp: 87453

Ion	Ratio	Lower	Upper
95	100		
130	99.4	85.9	159.5
132	98.4	79.4	147.4
97	63.7	45.0	83.6

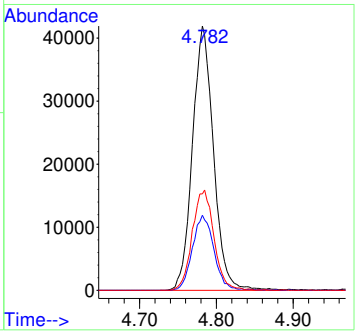


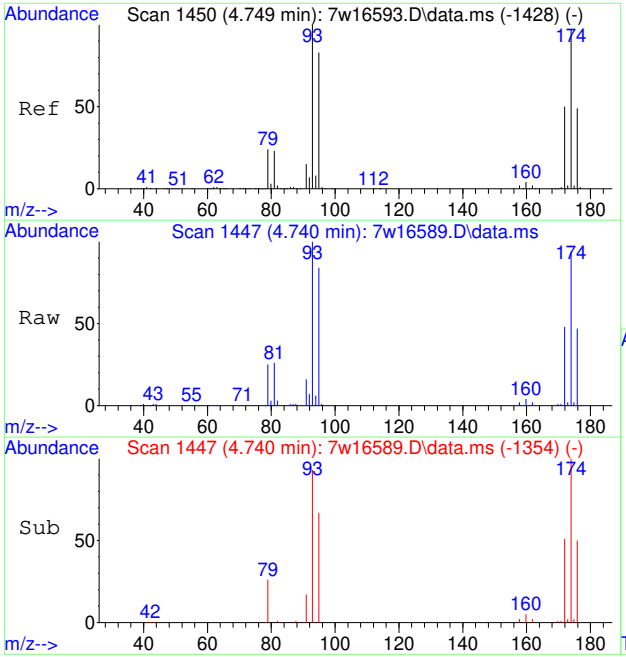


#56
1,2-DICHLOROPROPANE
Concen: 4.94 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 79932

Ion	Ratio	Lower	Upper
63	100		
65	29.2	22.6	42.0
76	39.2	31.8	59.0

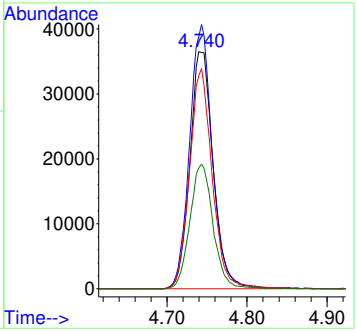


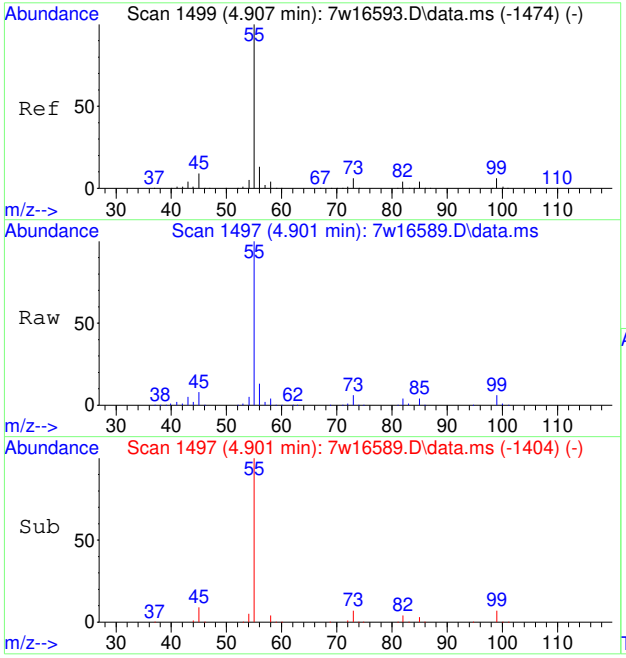


#57
DIBROMOMETHANE
Concen: 4.94 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:174 Resp: 74130

Ion	Ratio	Lower	Upper
174	100		
93	109.1	67.3	125.1
95	90.0	56.8	105.6
172	52.3	36.3	67.5

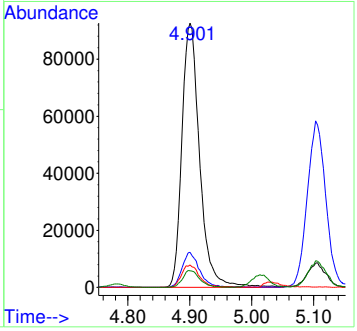


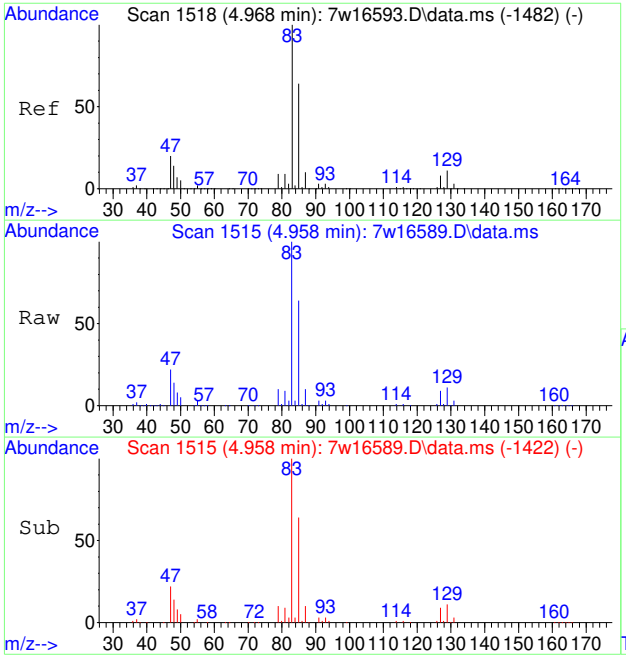


#58
ETHYL ACRYLATE
Concen: 5.03 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 184653

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.8	6.6	12.2
99	6.2	6.2	11.6#

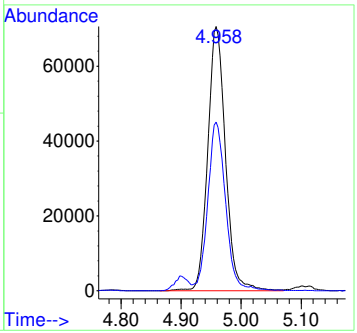


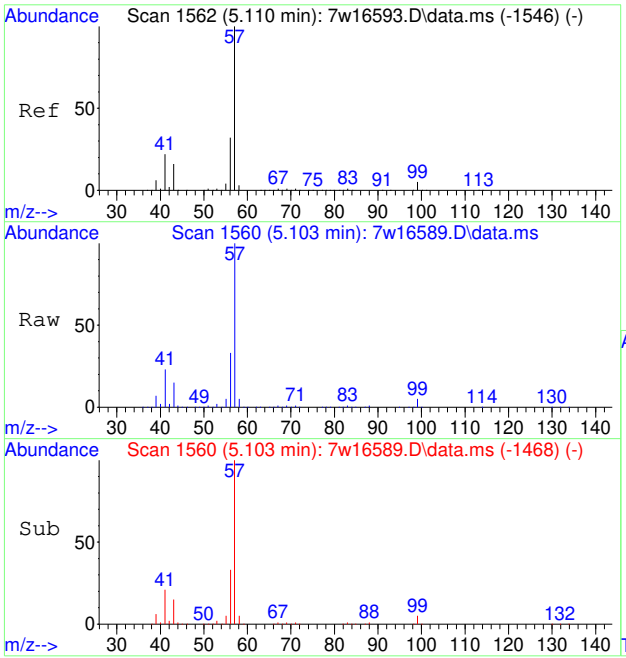


#59
BROMODICHLOROMETHANE
Concen: 4.78 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 145254

Ion	Ratio	Lower	Upper
83	100		
85	64.4	44.9	83.5

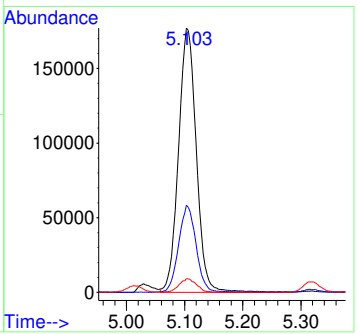


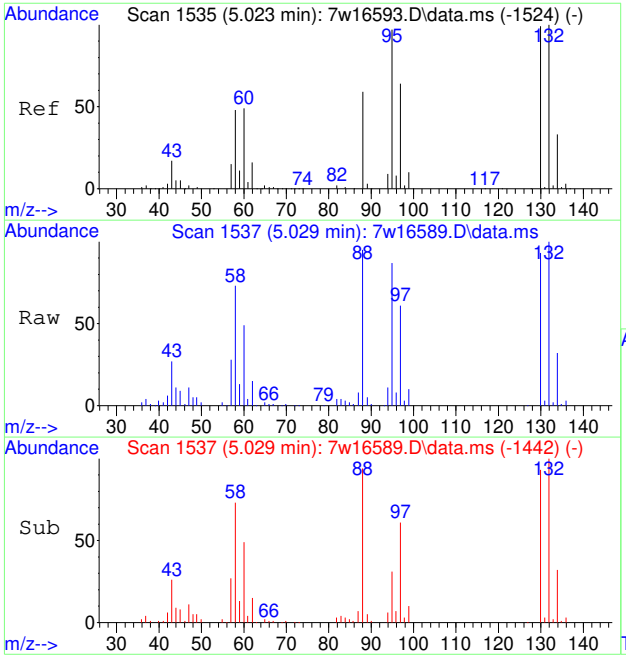


#60
2,2,4-TRIMETHYLPENTANE
Concen: 4.91 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 376202

Ion	Ratio	Lower	Upper
57	100		
56	32.4	24.4	45.2
99	5.1	5.2	9.6#

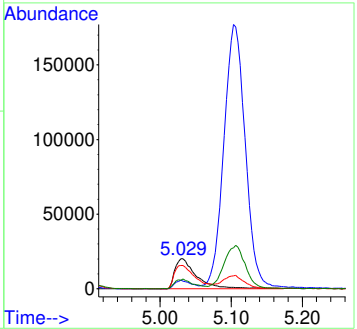


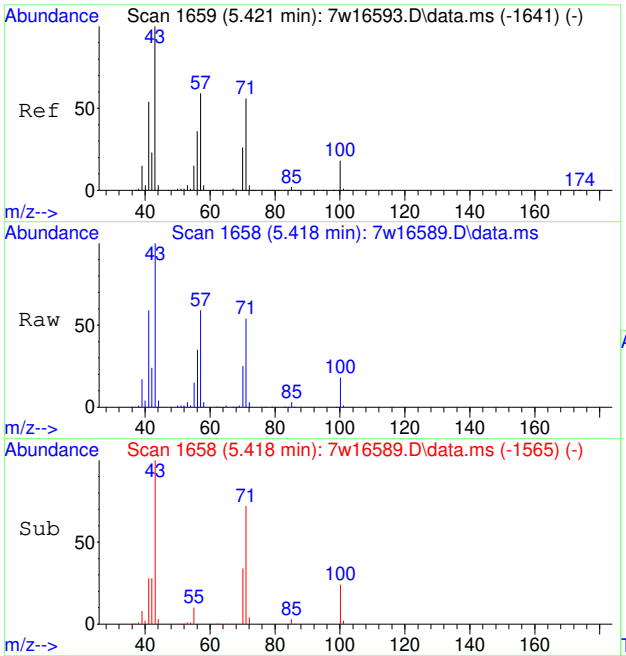


#61
1,4-DIOXANE
Concen: 4.76 PPBV
RT: 5.029 min Scan# 1537
Delta R.T. 0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 88 Resp: 43182

Ion	Ratio	Lower	Upper
88	100		
57	22.6	13.1	24.3
58	75.6	39.1	72.5#
43	27.0	18.3	33.9

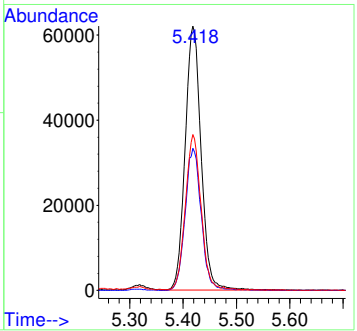


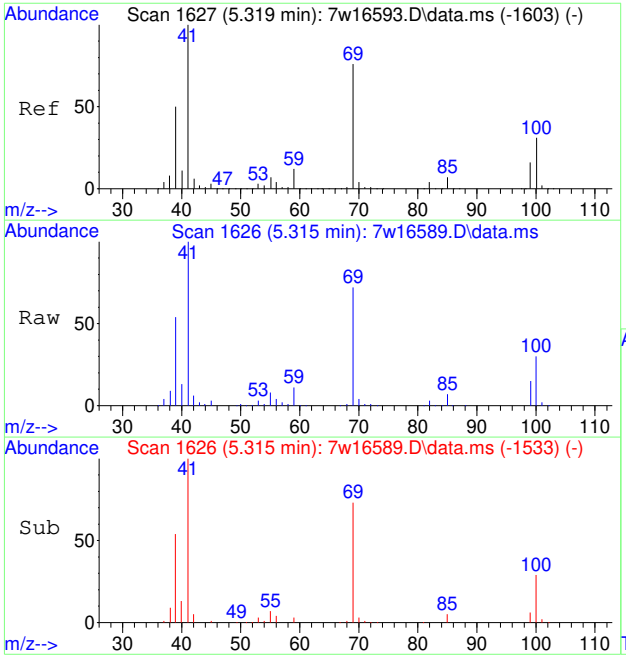


#62
HEPTANE
Concen: 5.06 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 129447

Ion	Ratio	Lower	Upper
43	100		
71	54.3	45.0	83.6
57	58.0	37.2	69.0

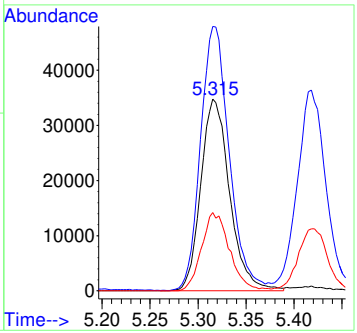


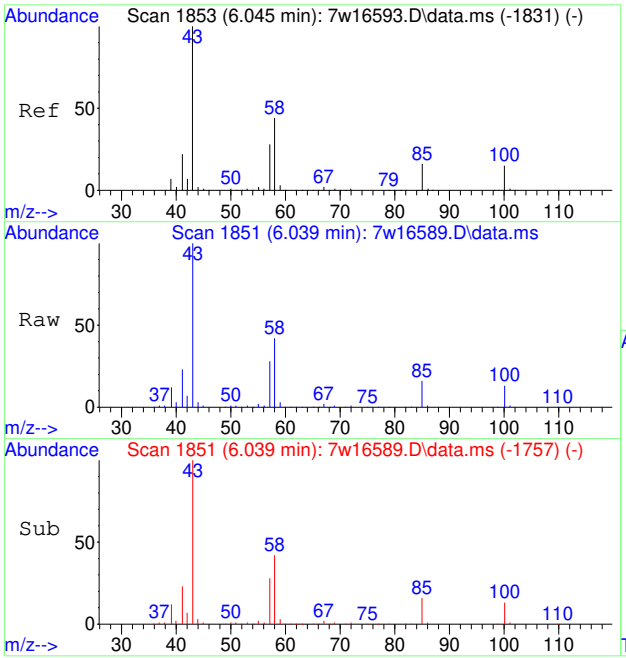


#63
METHYL METHACRYLATE
Concen: 4.95 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 72765

Ion	Ratio	Lower	Upper
69	100		
41	136.6	84.3	156.5
100	39.7	30.8	57.2

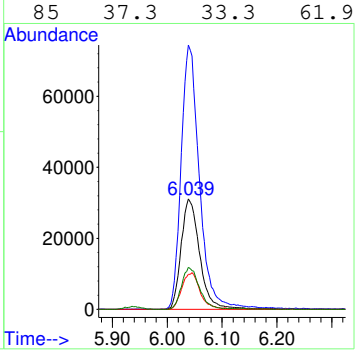


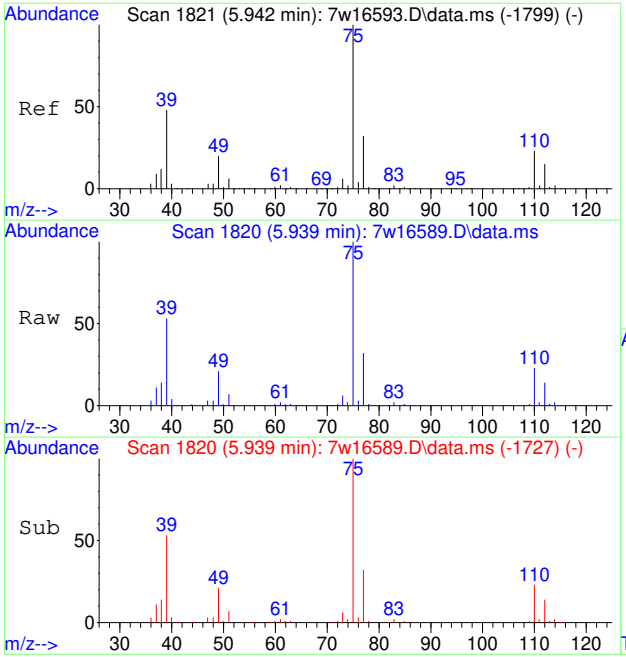


#64
METHYL ISOBUTYL KETONE
Concen: 4.88 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 73624

Ion	Ratio	Lower	Upper
58	100		
43	236.1	193.8	360.0
100	33.1	32.8	60.8
85	37.3	33.3	61.9

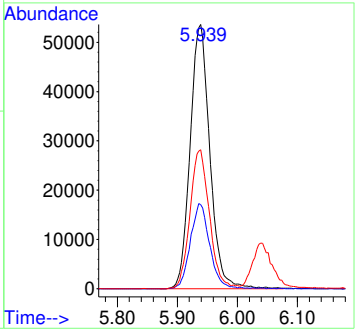


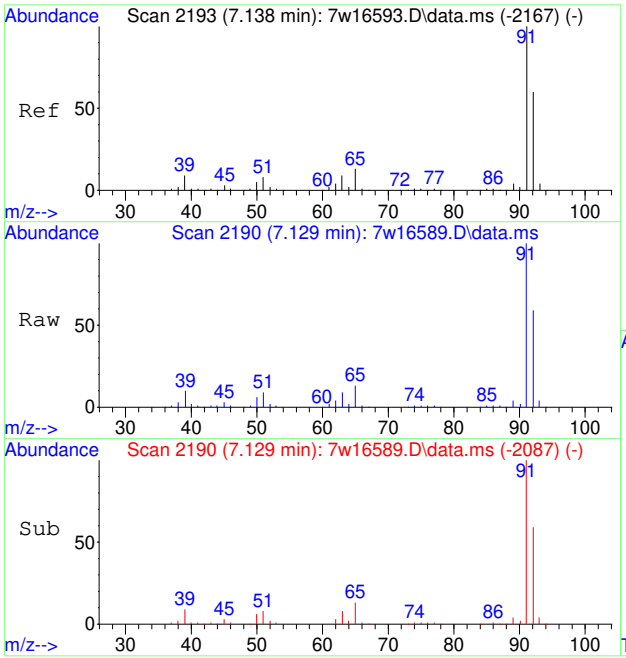


#65
CIS-1,3-DICHLOROPROPENE
Concen: 4.78 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 122774

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.8	38.5	71.5

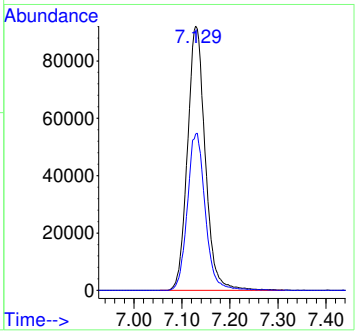


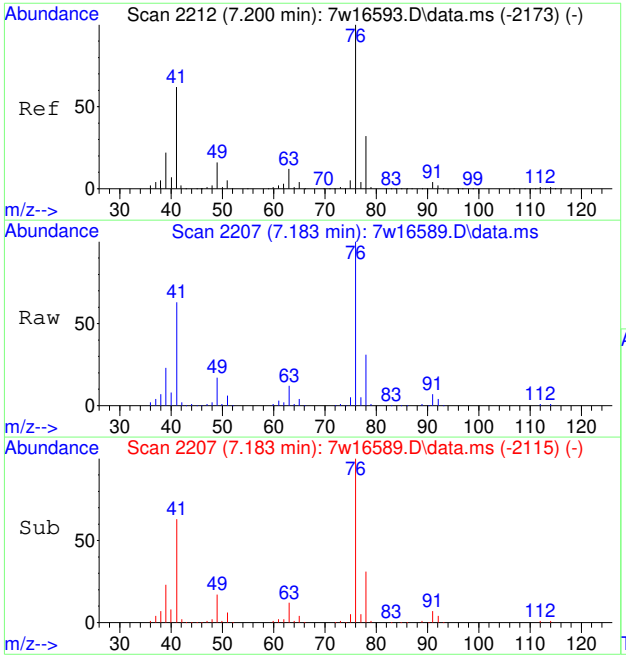


#66
TOLUENE
Concen: 5.09 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 237199

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

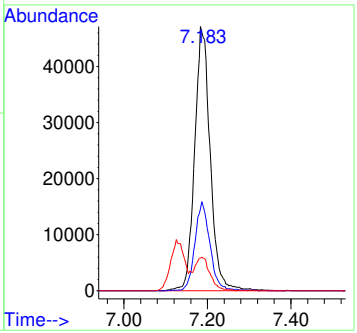


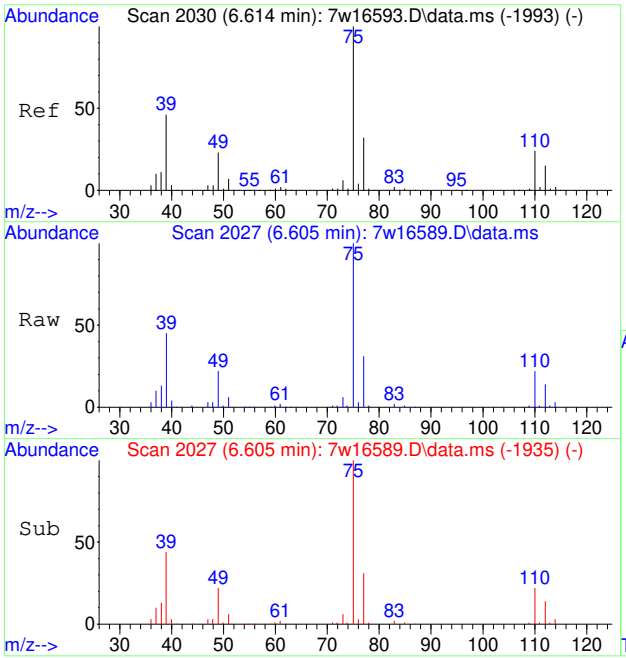


#67
1,3-DICHLOROPROPANE
Concen: 5.06 PPBV
RT: 7.183 min Scan# 2207
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 121971

Ion	Ratio	Lower	Upper
76	100		
78	32.7	22.1	41.1
63	12.0	8.0	14.8

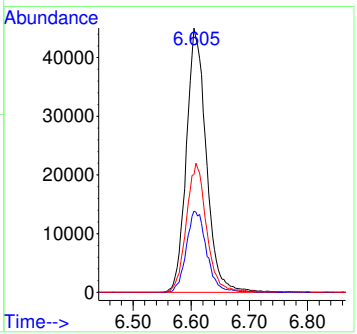


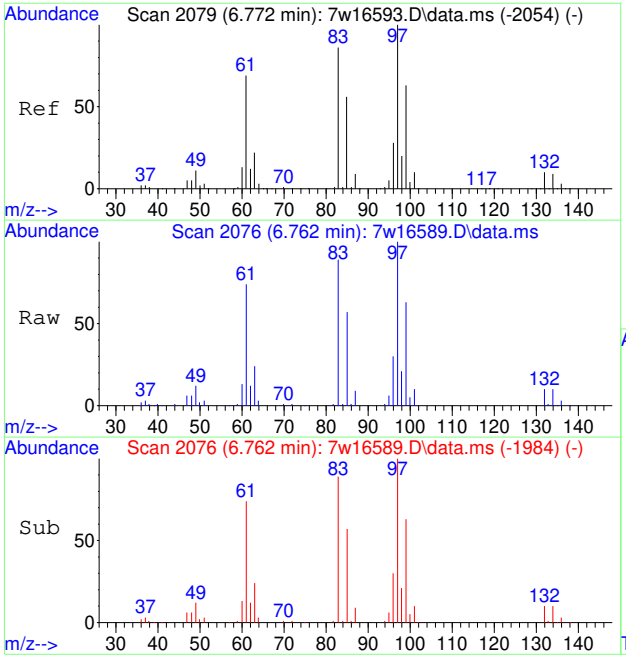


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 4.46 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 107017

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.5	41.7
39	50.0	37.2	69.0

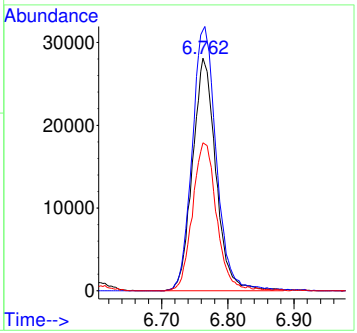


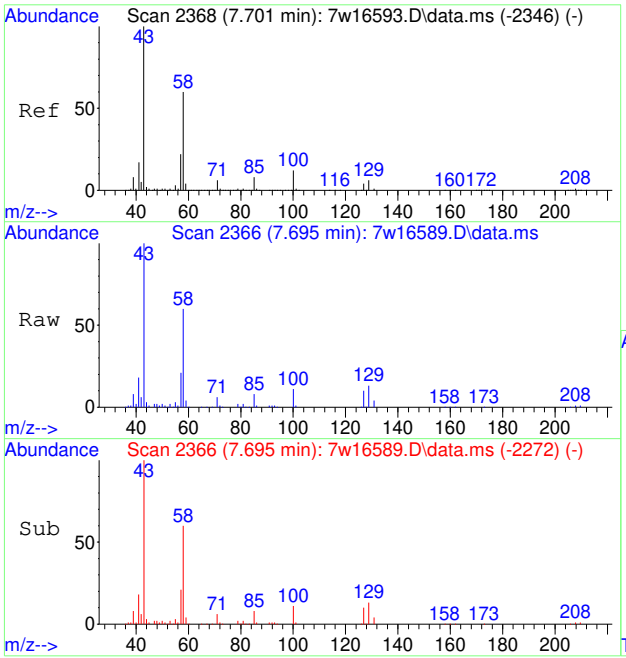


#69
1,1,2-TRICHLOROETHANE
Concen: 5.00 PPBV
RT: 6.762 min Scan# 2076
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 68995

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	65.6	45.5	84.5

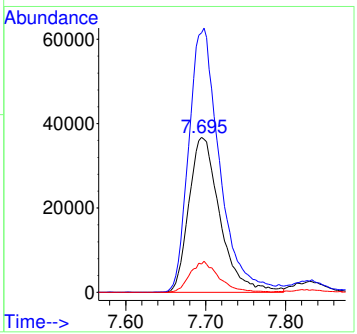


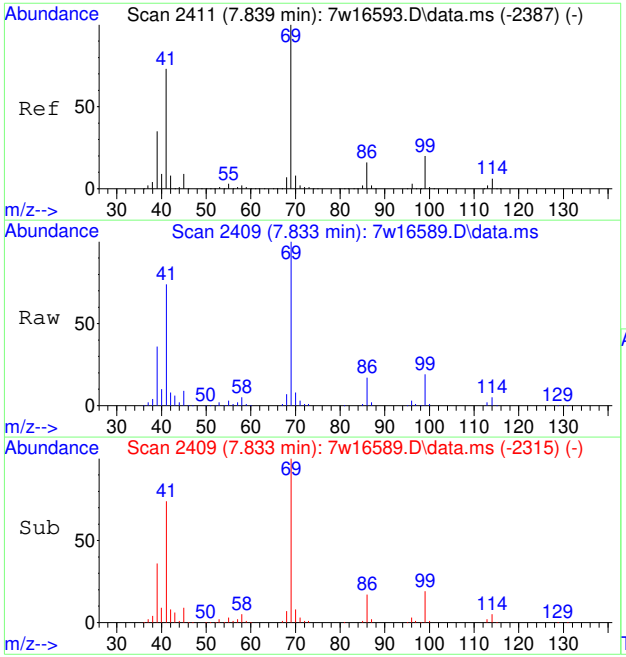


#70
2-HEXANONE
Concen: 5.01 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 99491

Ion	Ratio	Lower	Upper
58	100		
43	169.1	141.7	263.3
100	18.7	18.9	35.1#

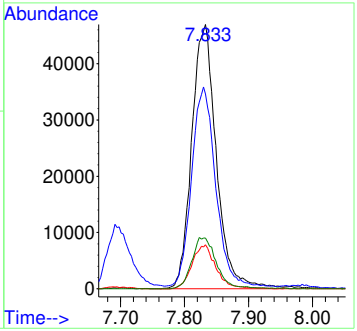


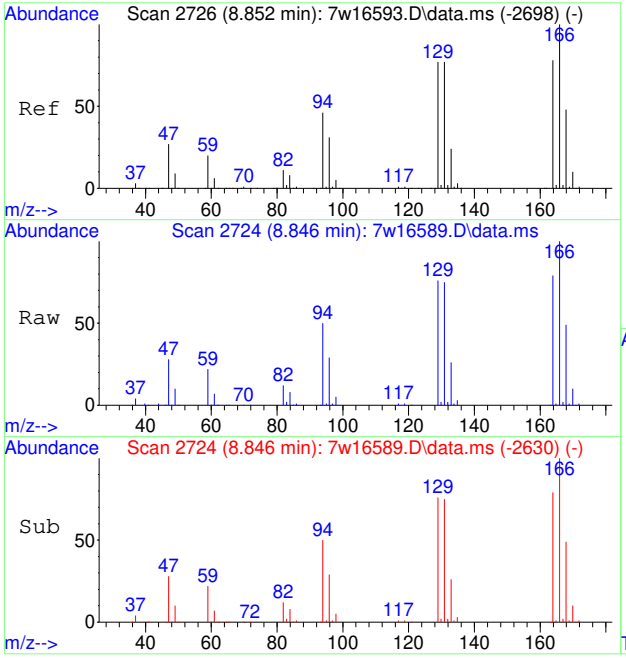


#71
ETHYL METHACRYLATE
Concen: 4.97 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 125849

Ion	Ratio	Lower	Upper
69	100		
41	76.4	49.3	91.6
86	16.1	11.6	21.6
99	19.3	13.4	24.8

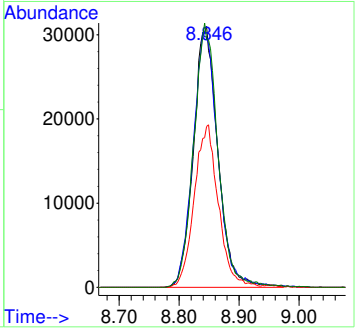


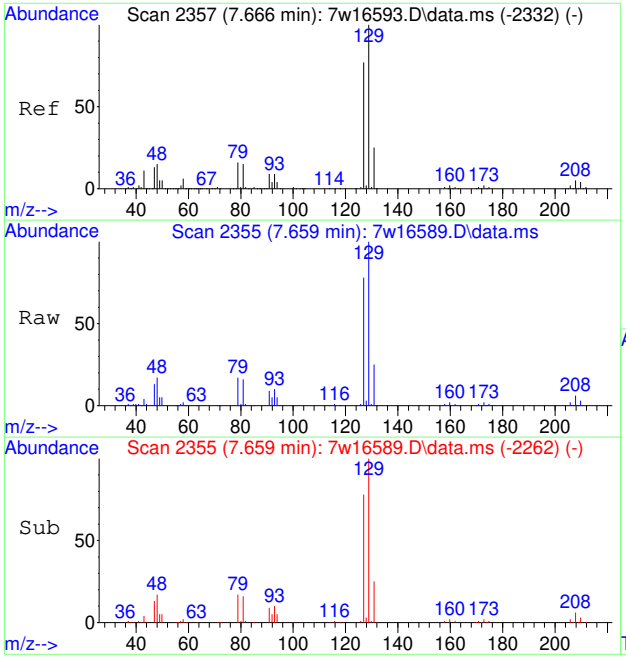


#72
TETRACHLOROETHENE
Concen: 5.13 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:164 Resp: 87888

Ion	Ratio	Lower	Upper
164	100		
129	100.6	69.7	129.5
168	61.3	43.4	80.6
131	100.9	67.1	124.5

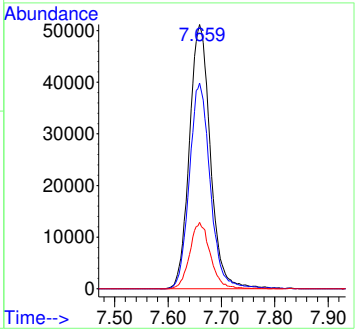


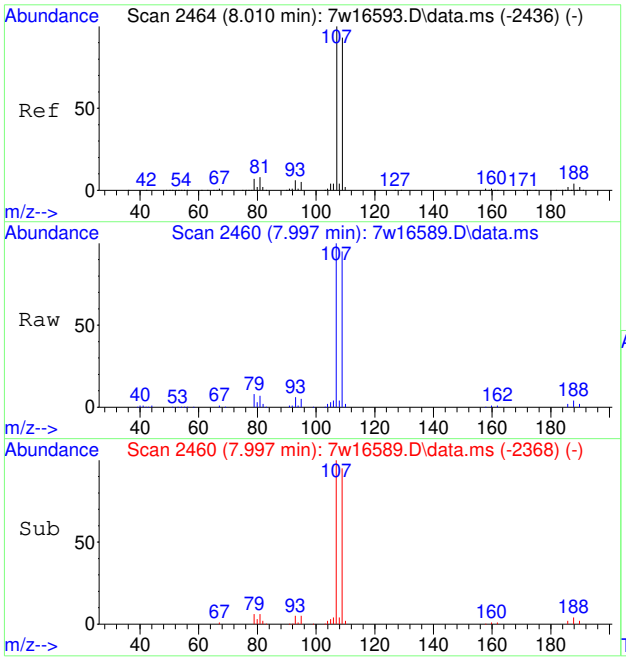


#73
DIBROMOCHLOROMETHANE
Concen: 4.88 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:129 Resp: 139976

Ion	Ratio	Lower	Upper
129	100		
127	77.4	53.0	98.4
131	24.6	16.9	31.3

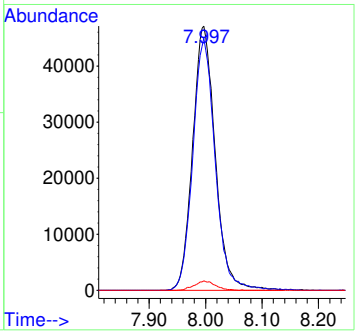


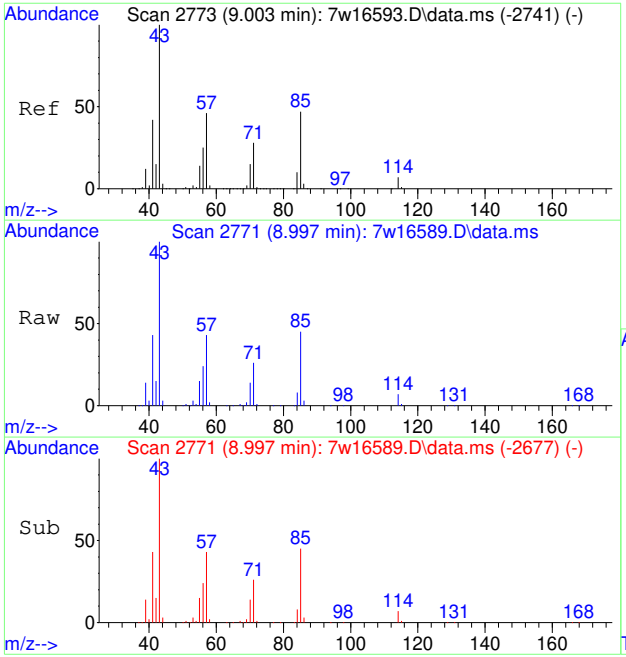


#74
1,2-DIBROMOETHANE
Concen: 5.30 PPBV
RT: 7.997 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:107 Resp: 130464

Ion	Ratio	Lower	Upper
107	100		
109	94.7	65.7	122.1
188	3.4	2.4	4.4

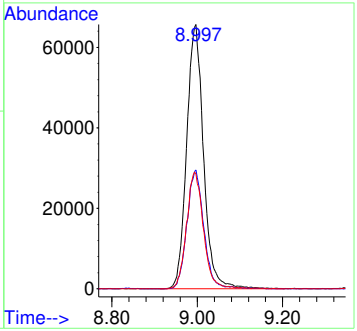


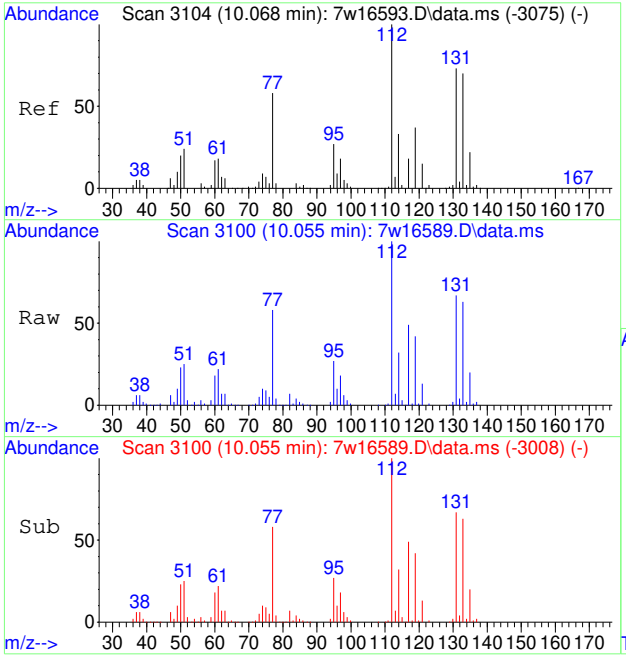


#75
OCTANE
Concen: 5.16 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 180997

Ion	Ratio	Lower	Upper
43	100		
85	45.1	36.5	67.9
57	44.3	27.6	51.2

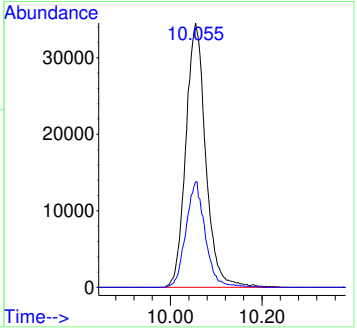


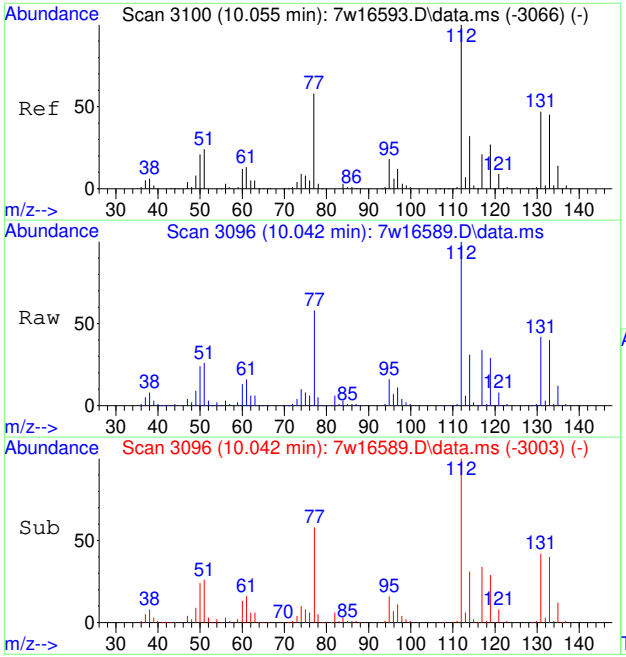


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.17 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:131 Resp: 104080

Ion	Ratio	Lower	Upper
131	100		
95	39.0	23.7	43.9

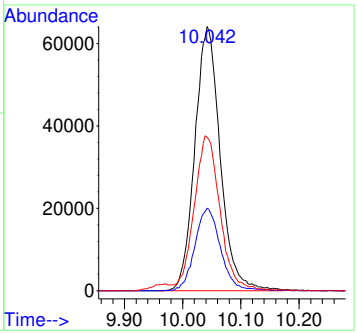


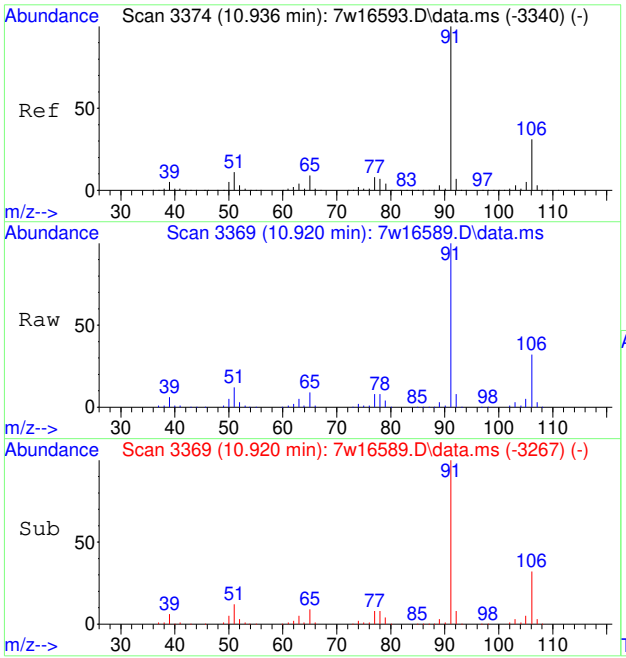


#78
CHLOROBENZENE
Concen: 5.29 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:112 Resp: 194976

Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.9	42.5
77	60.2	34.4	63.8

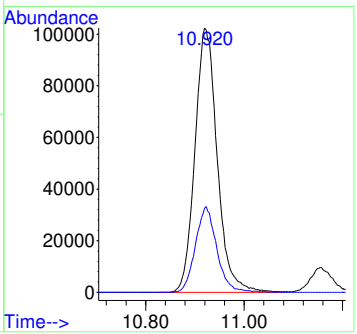


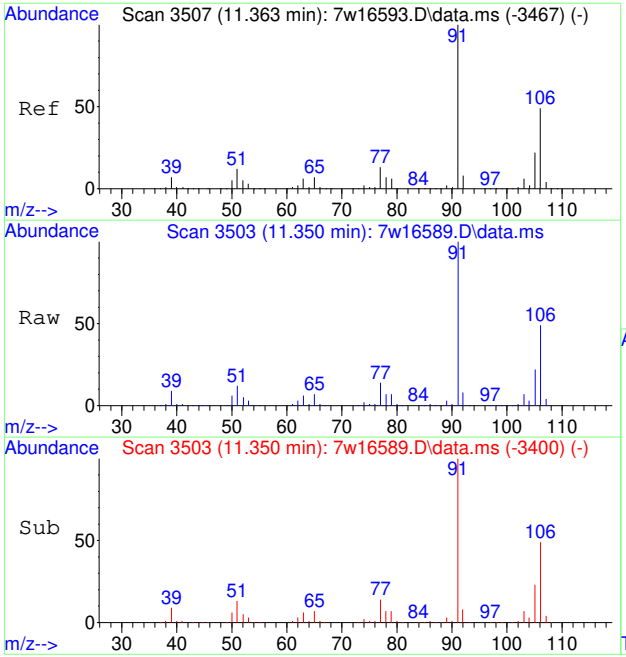


#79
ETHYLBENZENE
Concen: 5.30 PPBV
RT: 10.920 min Scan# 3369
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 322003

Ion	Ratio	Lower	Upper
91	100		
106	31.2	2.8	62.8

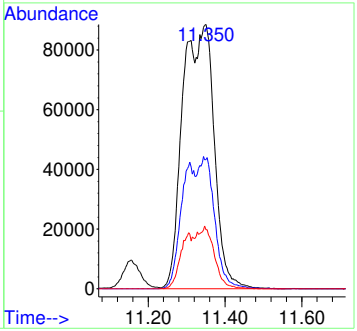


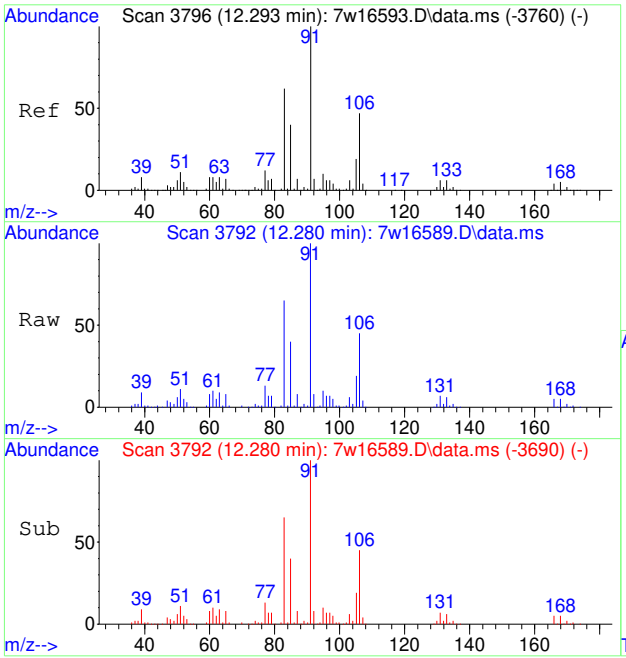


#80
M,P-XYLENE
Concen: 10.38 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 506054

Ion	Ratio	Lower	Upper
91	100		
106	28.2	0.0	58.7
105	12.9	0.0	43.2

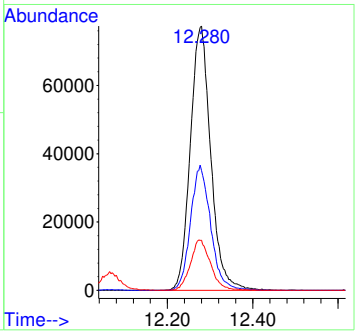


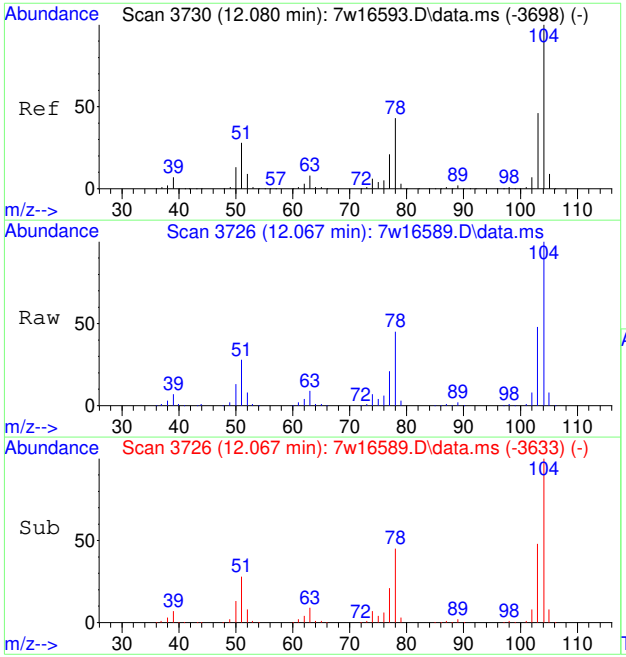


#81
O-XYLENE
Concen: 5.40 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 257748

Ion	Ratio	Lower	Upper
91	100		
106	45.3	34.1	63.3
105	19.0	14.6	27.2

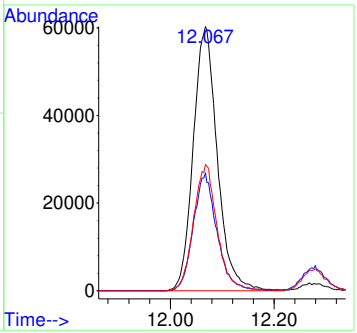


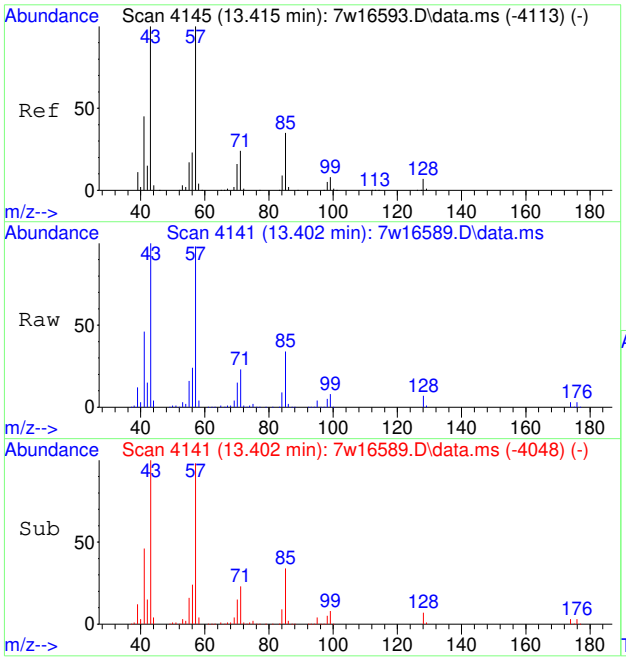


#82
STYRENE
Concen: 5.23 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:104 Resp: 194546

Ion	Ratio	Lower	Upper
104	100		
78	43.5	25.3	46.9
103	47.1	33.2	61.7

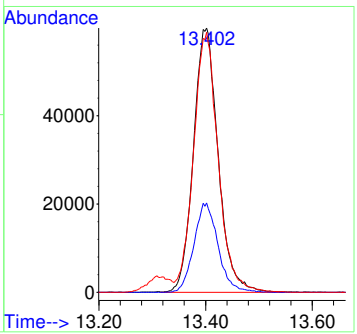


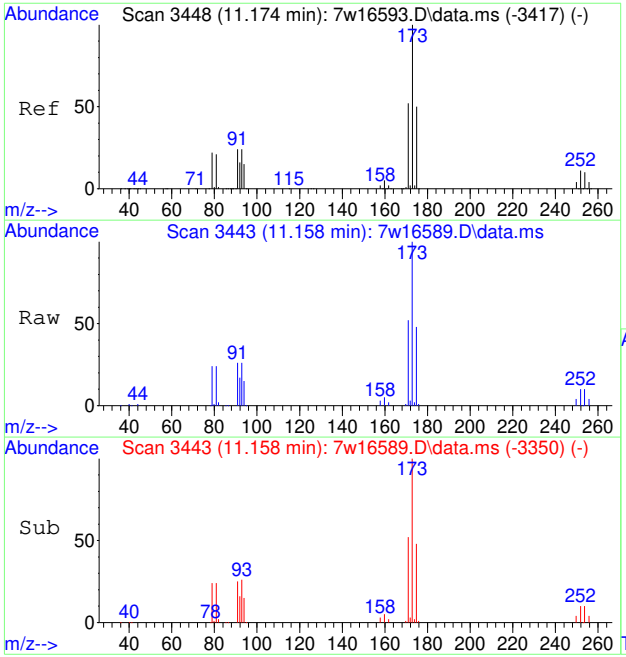


#83
NONANE
Concen: 5.27 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 192916

Ion	Ratio	Lower	Upper
43	100		
85	33.0	27.6	51.2
57	98.1	56.4	104.7

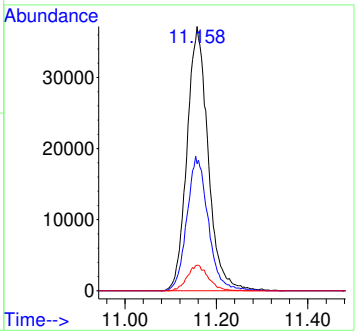


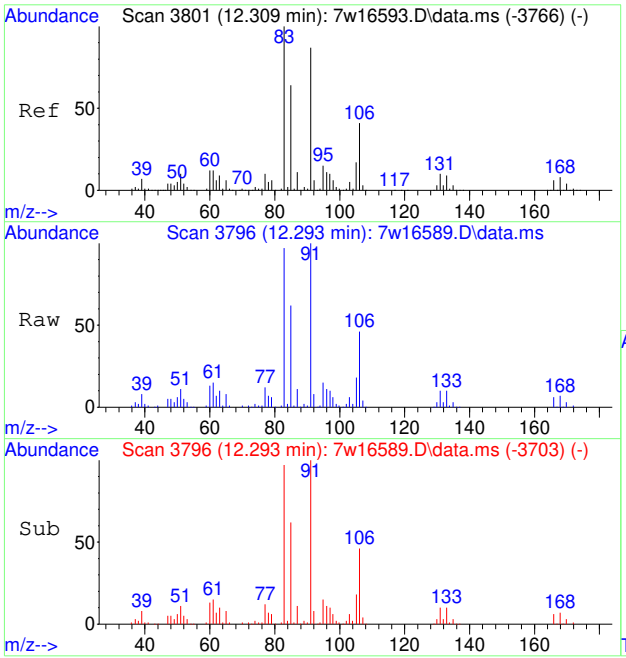


#84
BROMOFORM
Concen: 4.90 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:173 Resp: 119167

Ion	Ratio	Lower	Upper
173	100		
175	51.2	33.0	61.4
254	9.7	5.9	10.9

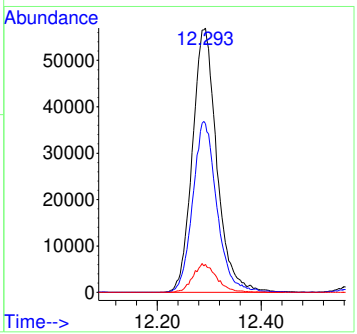


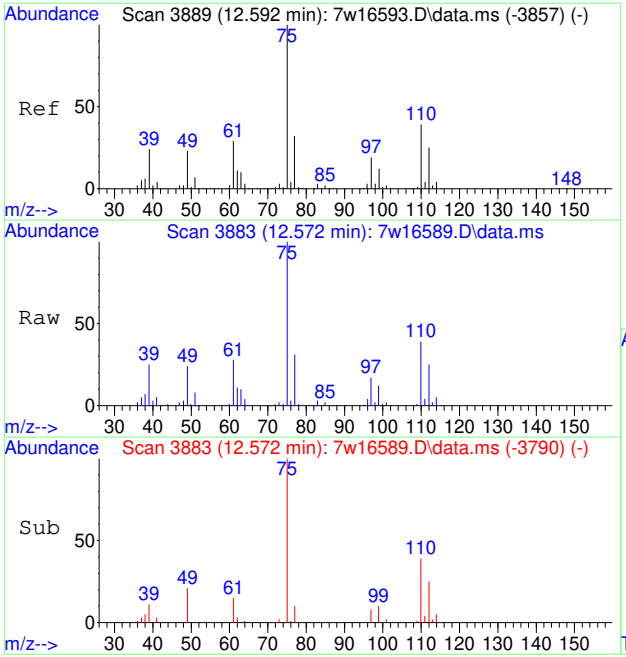


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 5.35 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 186265

Ion	Ratio	Lower	Upper
83	100		
85	64.3	44.6	82.8
131	10.6	8.0	14.8

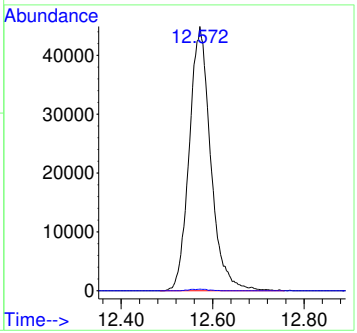


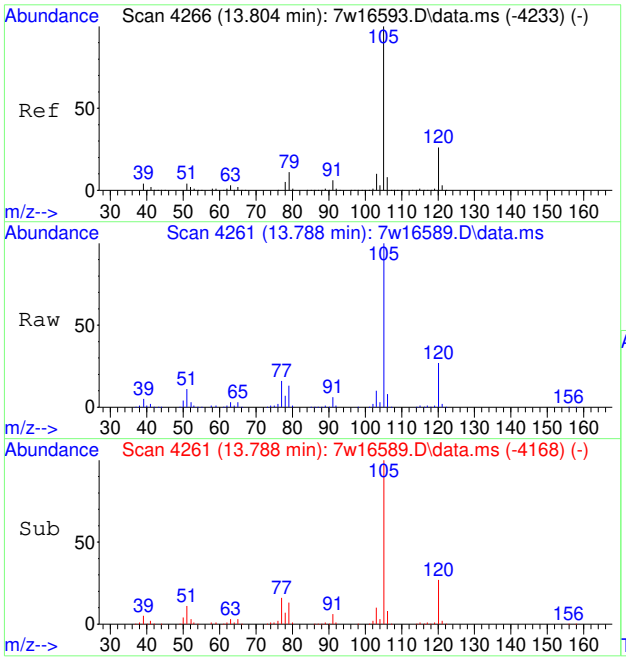


#86
1,2,3-TRICHLOROPROPANE
Concen: 5.34 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 146270

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

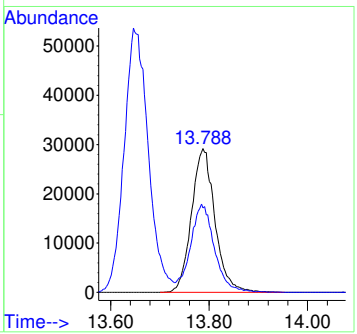


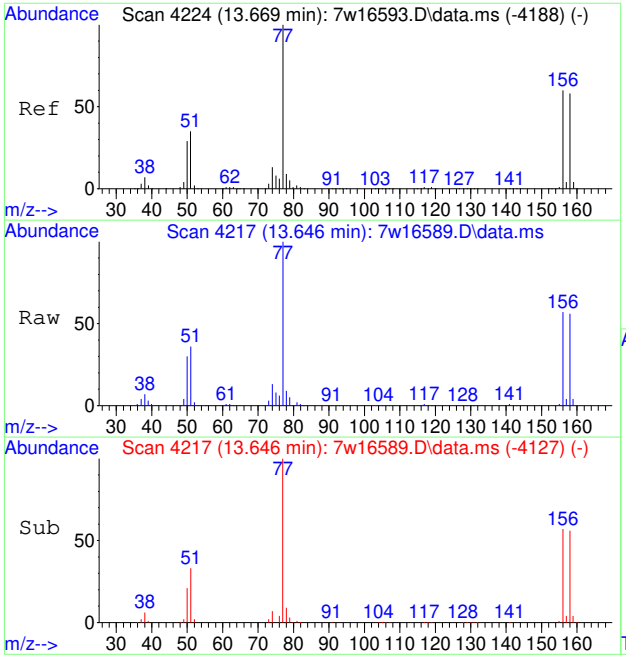


#88
ISOPROPYLBENZENE
Concen: 5.28 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 96509

Ion	Ratio	Lower	Upper
120	100		
77	62.3	36.0	67.0

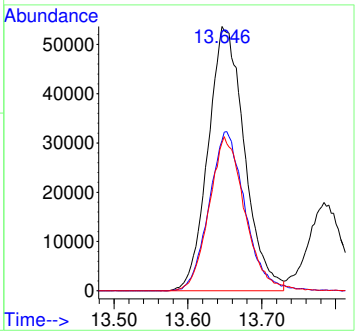


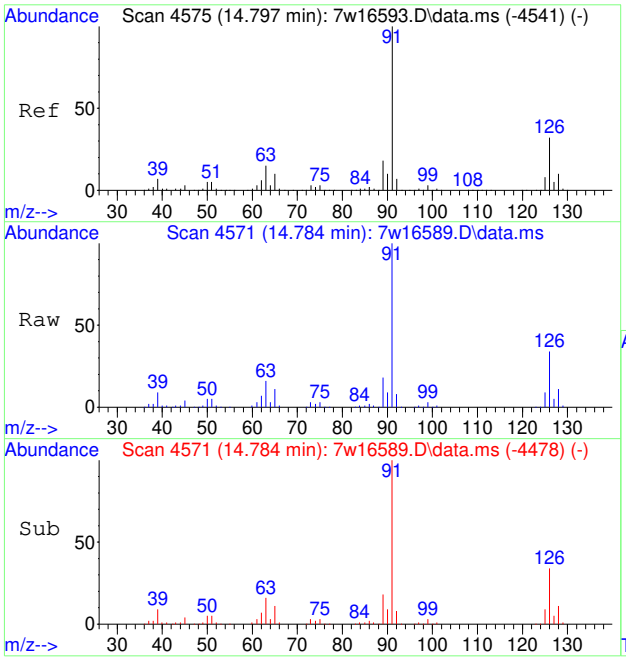


#89
BROMOBENZENE
Concen: 5.30 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 77 Resp: 183496

Ion	Ratio	Lower	Upper
77	100		
156	59.7	57.9	107.5
158	57.4	55.7	103.5

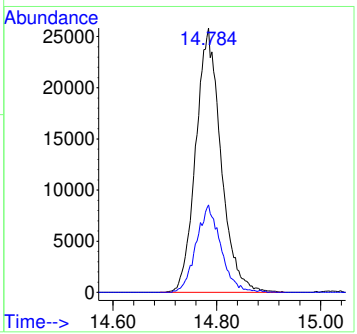


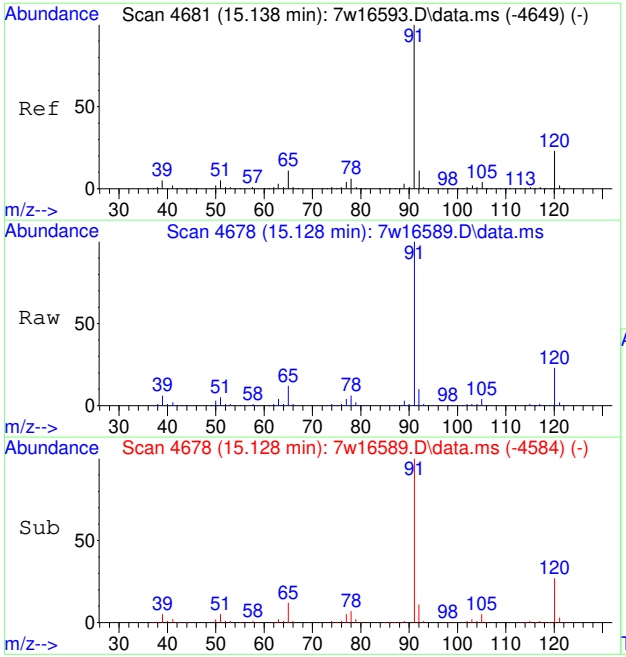


#90
2-CHLOROTOLUENE
Concen: 5.02 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:126 Resp: 86951

Ion	Ratio	Lower	Upper
126	100		
128	32.5	22.7	42.1

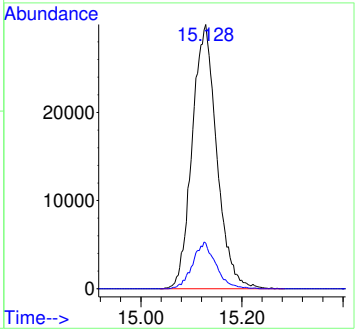


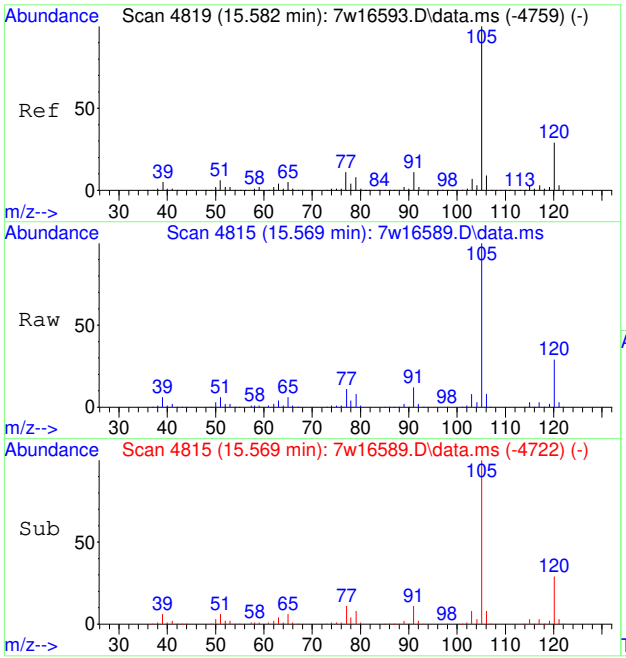


#91
N-PROPYLBENZENE
Concen: 5.12 PPBV
RT: 15.128 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 101472

Ion	Ratio	Lower	Upper
120	100		
105	16.7	10.6	19.6

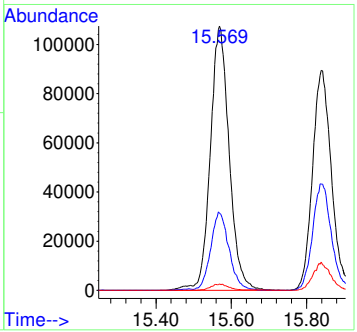


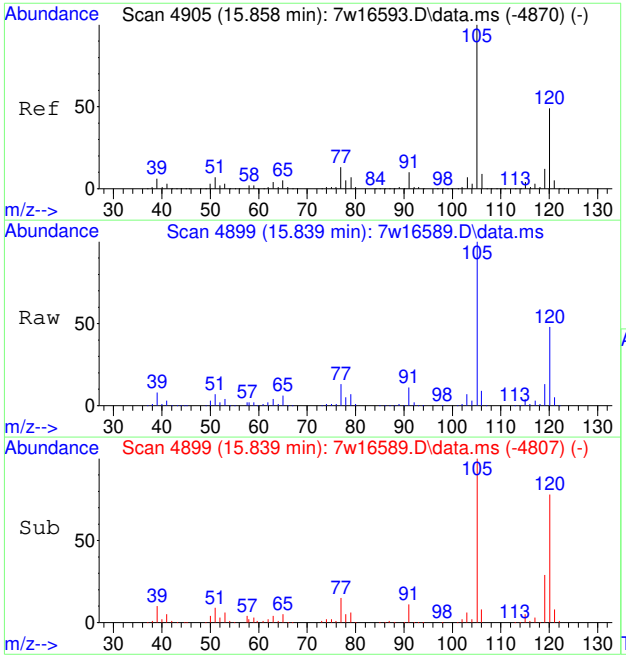


#92
4-ETHYLTOLUENE
Concen: 5.20 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 373811

Ion	Ratio	Lower	Upper
105	100		
120	29.3	21.8	40.4
119	2.4	1.7	3.1

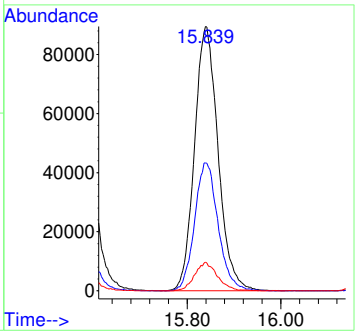


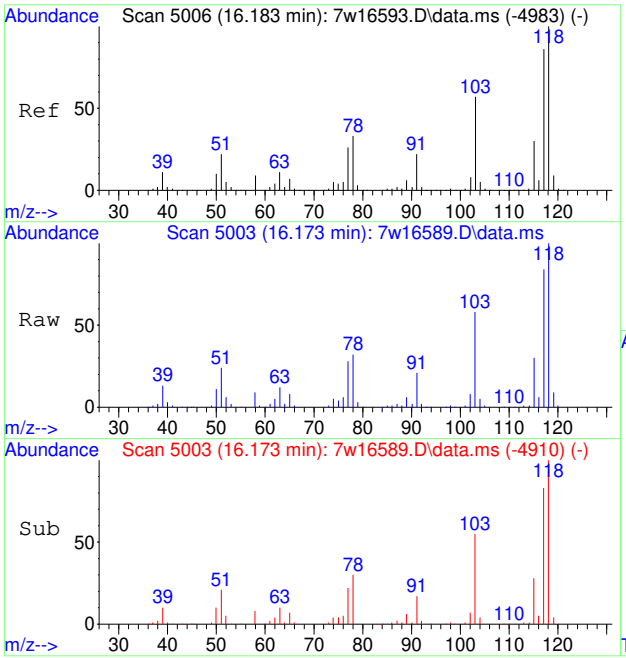


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.22 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 312677

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.5	7.5	13.9

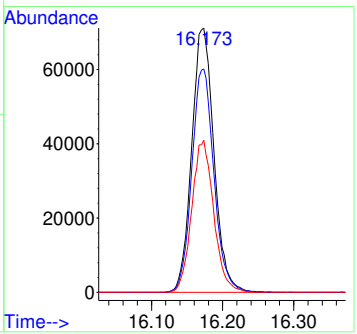


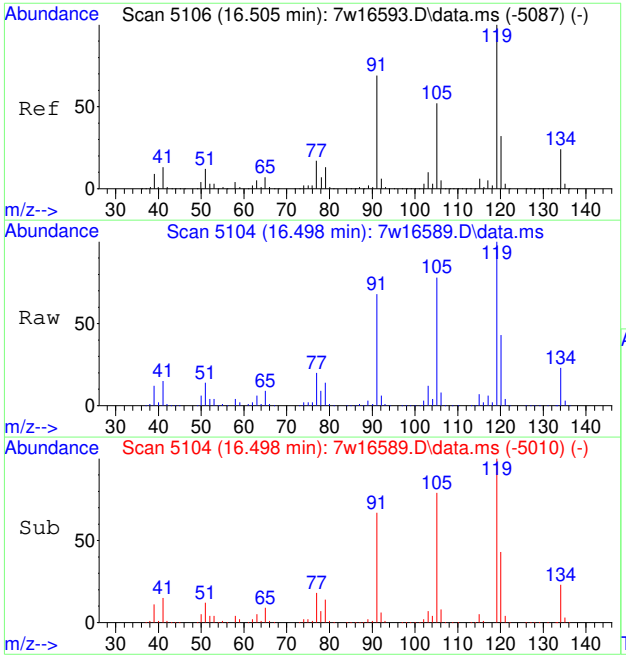


#94
ALPHA-METHYLSTYRENE
Concen: 5.06 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:118 Resp: 154689

Ion	Ratio	Lower	Upper
118	100		
117	84.3	59.9	111.3
103	56.7	36.2	67.2

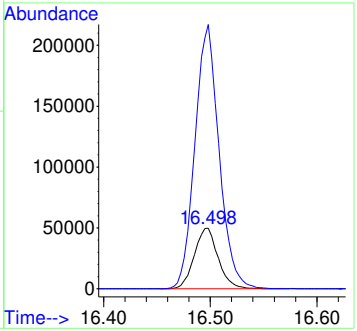


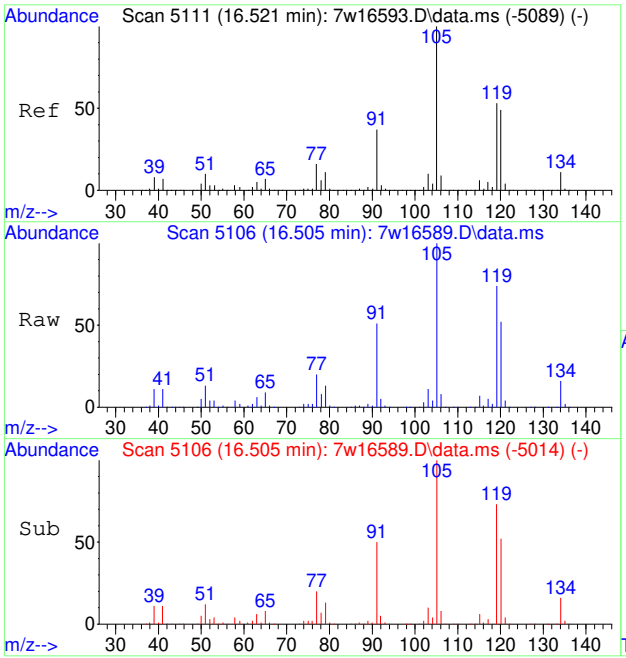


#95
TERT-BUTYLBENZENE
Concen: 5.33 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 77024

Ion	Ratio	Lower	Upper
134	100		
119	443.6	307.9	571.7

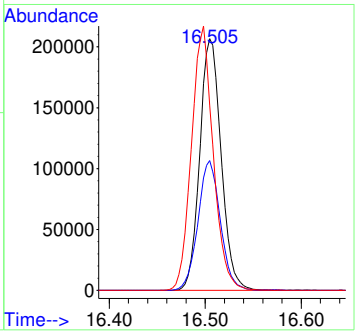




#96
1,2,4-TRIMETHYLBENZENE
Concen: 5.29 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

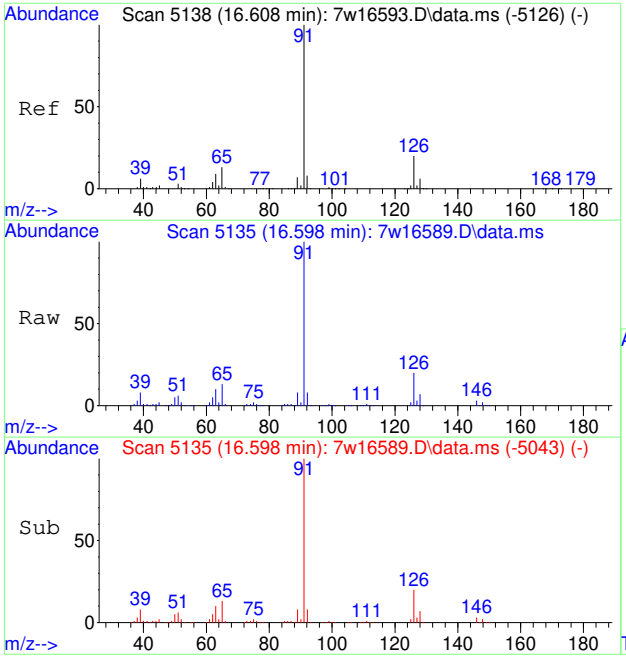
Tgt Ion:105 Resp: 320531

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	106.6	78.0	144.8



7.7.18

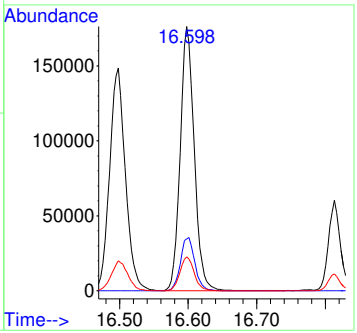
7

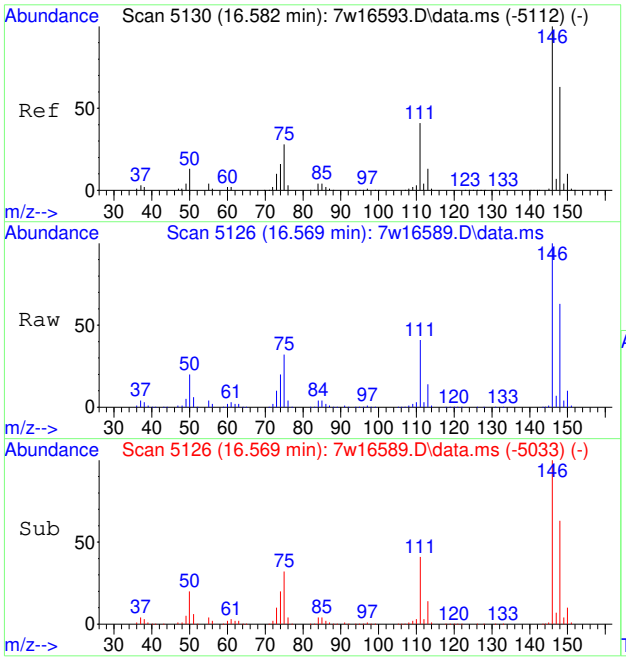


#97
BENZYL CHLORIDE
Concen: 4.80 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 250636

Ion	Ratio	Lower	Upper
91	100		
126	20.7	17.2	32.0
65	13.1	7.3	13.7

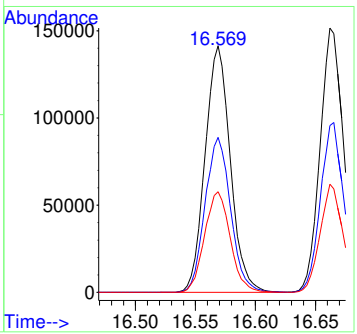


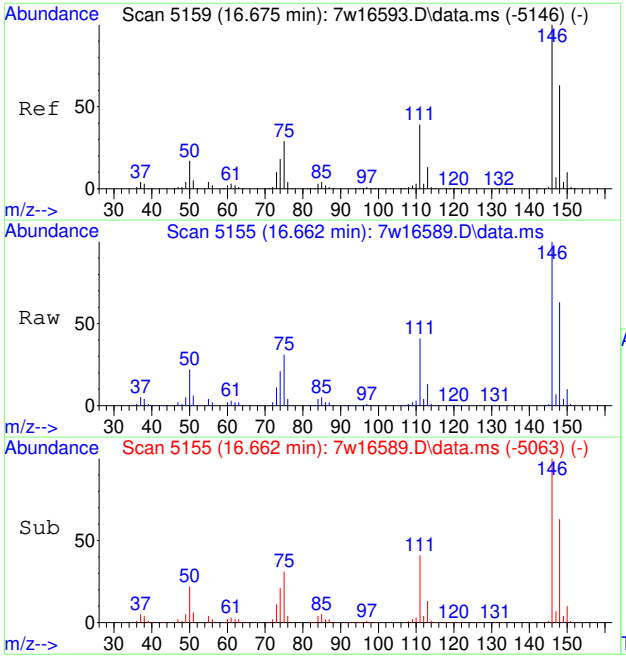


#98
M-DICHLOROBENZENE
Concen: 5.11 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 206691

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.7	25.4	47.2

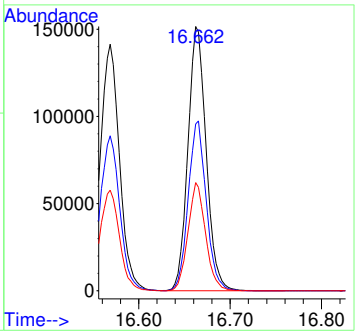


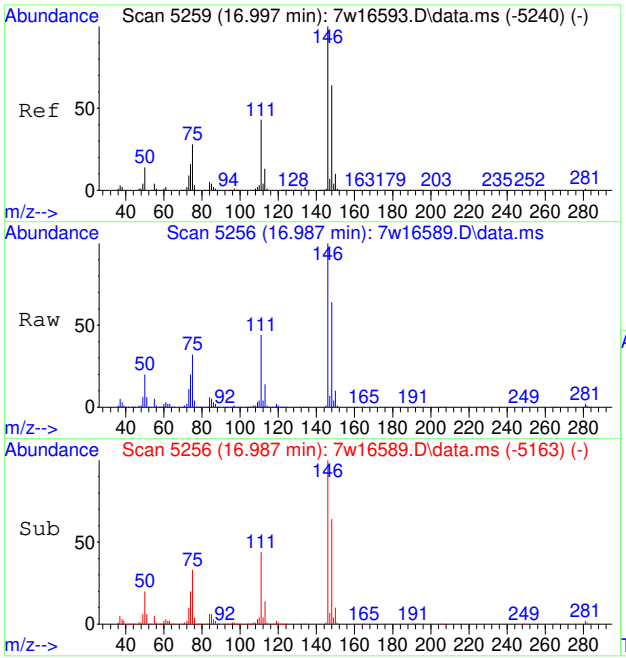


#99
P-DICHLOROBENZENE
Concen: 5.27 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 210041

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	39.5	24.8	46.1

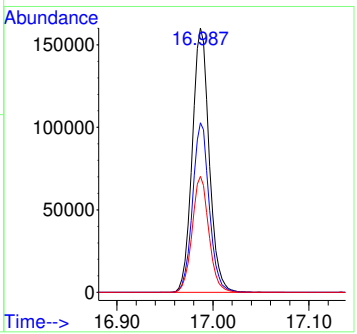


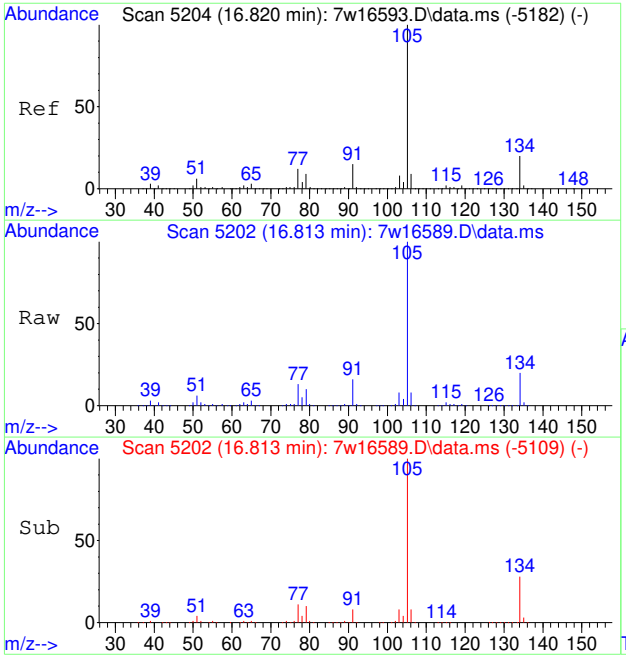


#100
O-DICHLOROBENZENE
Concen: 5.24 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 196281

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.2	26.9	50.1

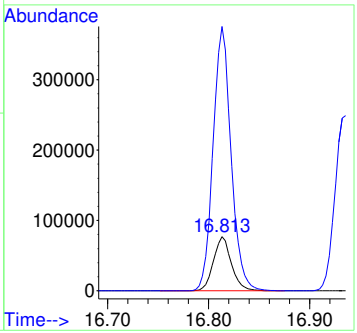


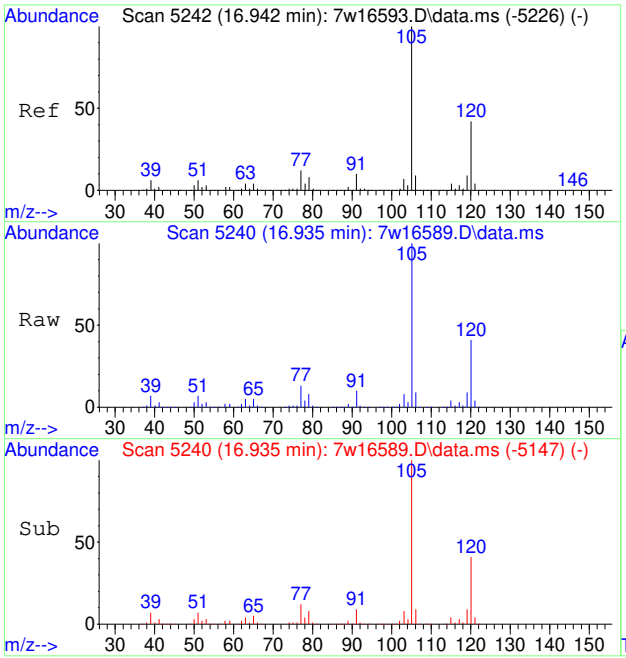


#101
SEC-BUTYLBENZENE
Concen: 5.43 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 94529

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

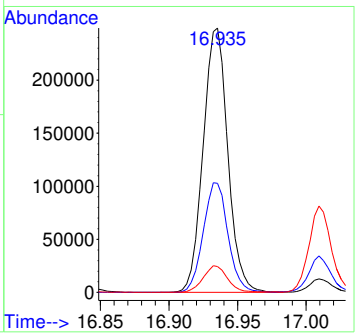


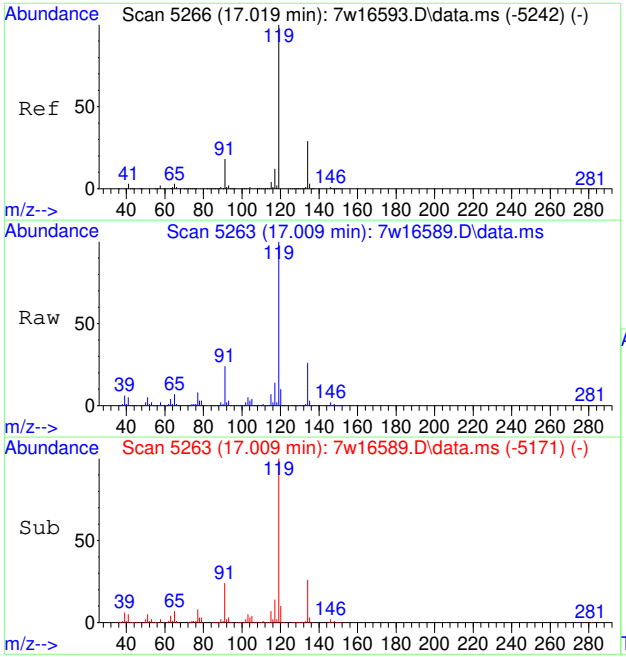


#102
1,2,3-TRIMETHYLBENZENE
Concen: 5.23 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 310890

Ion	Ratio	Lower	Upper
105	100		
120	41.6	31.9	59.2
91	10.1	7.3	13.5

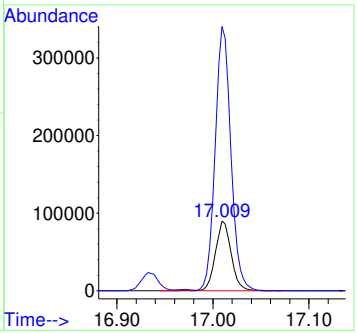


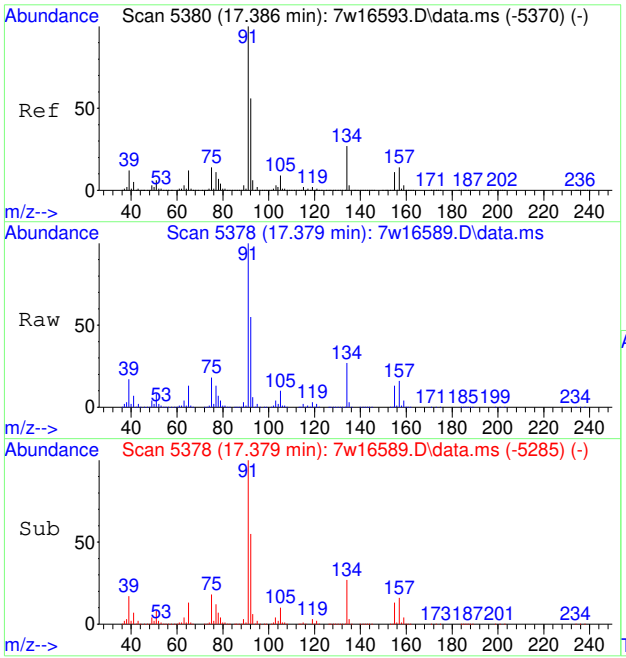


#103
P-ISOPROPYLTOLUENE
Concen: 5.24 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 102620

Ion	Ratio	Lower	Upper
134	100		
119	378.3	253.7	471.3

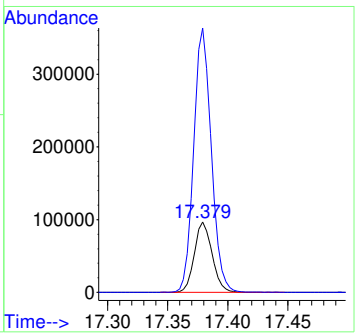


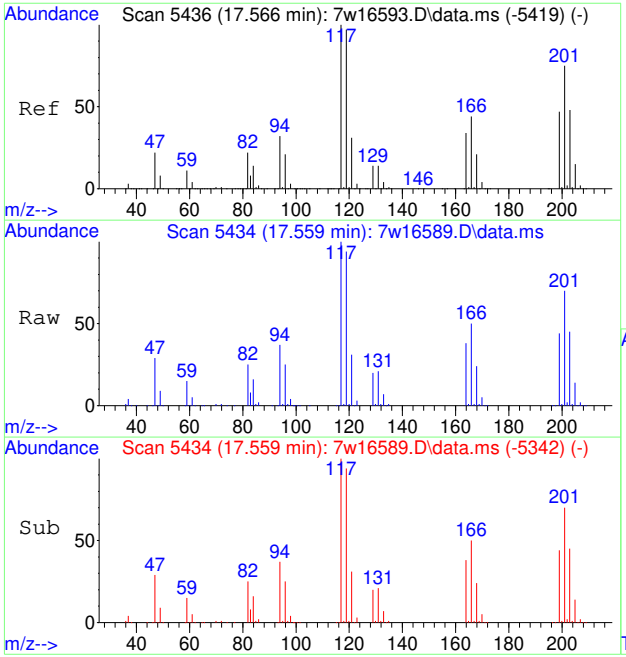


#104
N-BUTYLBENZENE
Concen: 5.28 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 99471

Ion	Ratio	Lower	Upper
134	100		
91	373.3	231.1	429.1

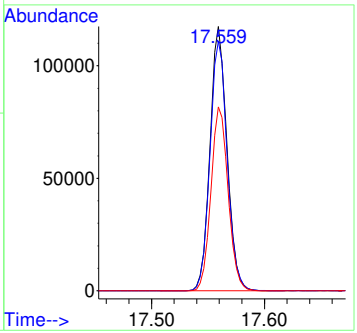


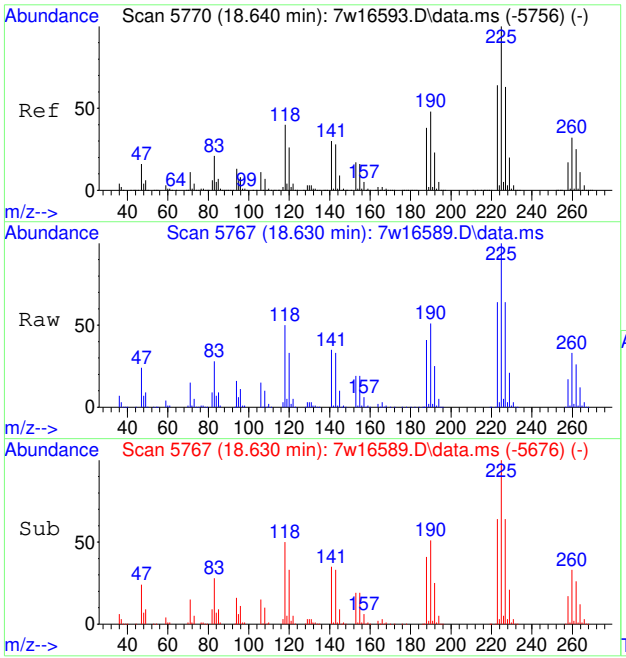


#105
HEXACHLOROETHANE
Concen: 5.22 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 121985

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	70.5	45.9	85.3

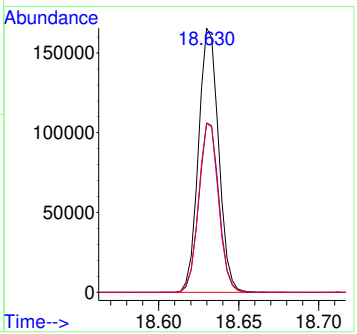


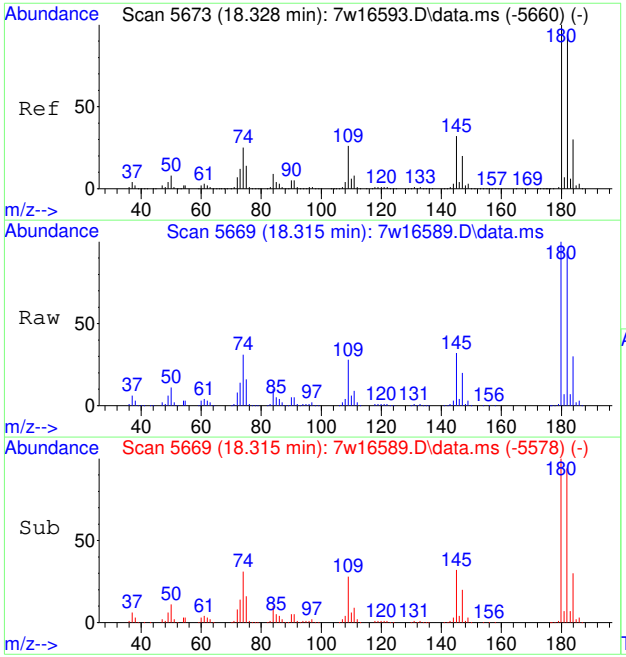


#106
HEXACHLOROBUTADIENE
Concen: 5.62 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:225 Resp: 144324

Ion	Ratio	Lower	Upper
225	100		
227	63.8	44.4	82.5
223	63.5	44.7	83.1

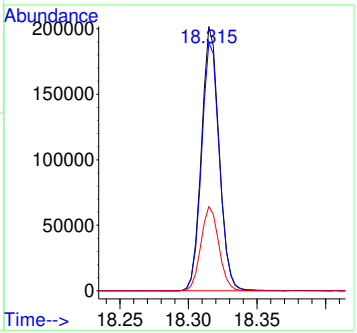


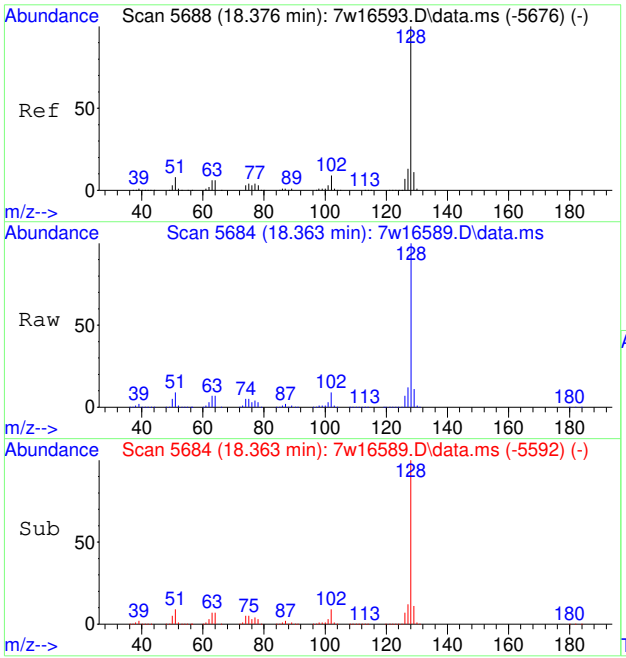


#107
1,2,4-TRICHLOROBENZENE
Concen: 5.43 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:180 Resp: 179655

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.5	23.1	42.9

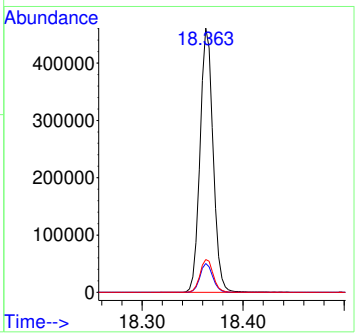


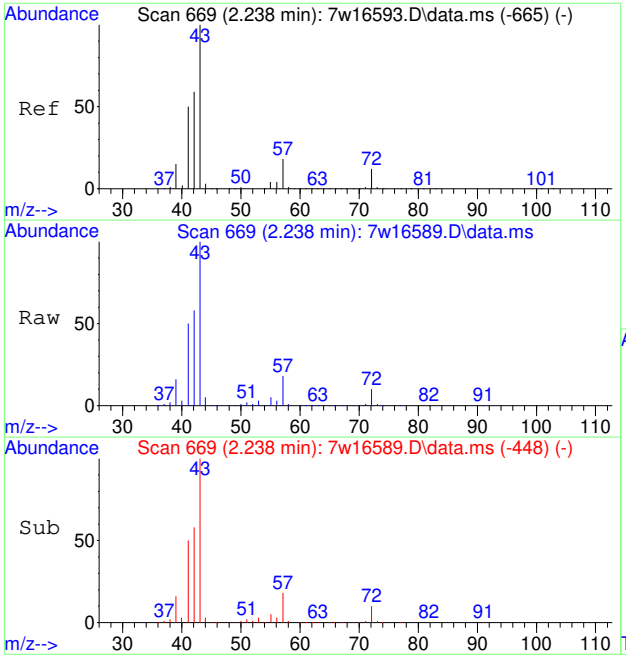


#108
NAPHTHALENE
Concen: 5.36 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:128 Resp: 413175

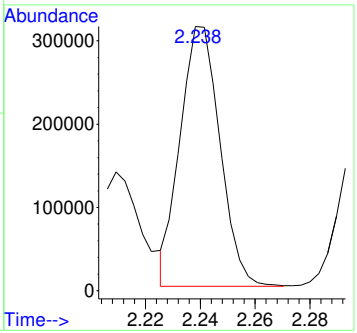
Ion	Ratio	Lower	Upper
128	100		
129	10.8	7.3	13.7
127	12.6	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 5.18 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:TIC Resp: 315100



7.7.18

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16589.D
Injection Time: 08/07/25 12:29

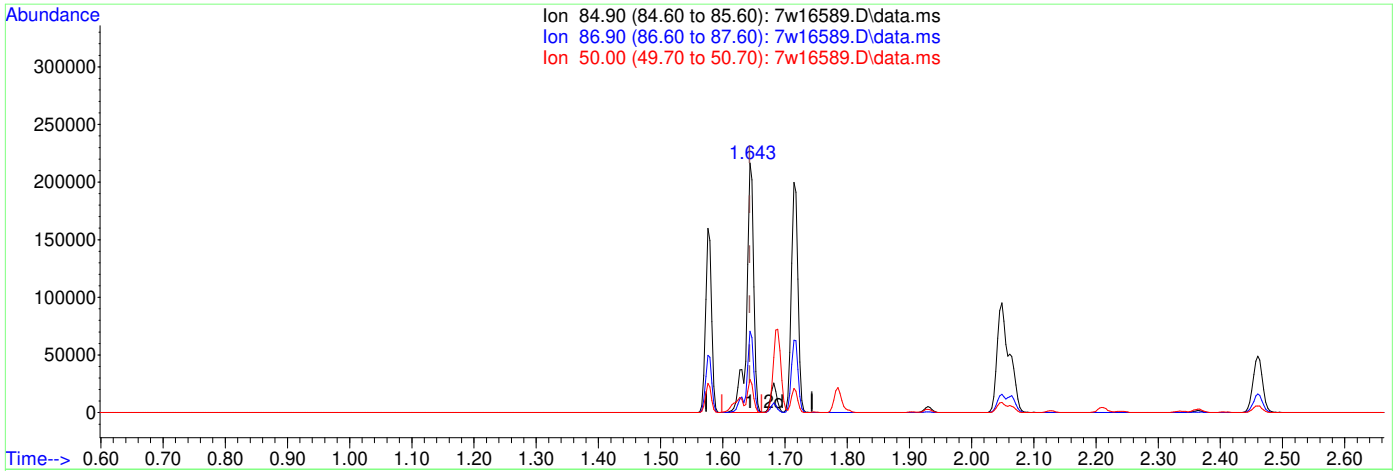
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

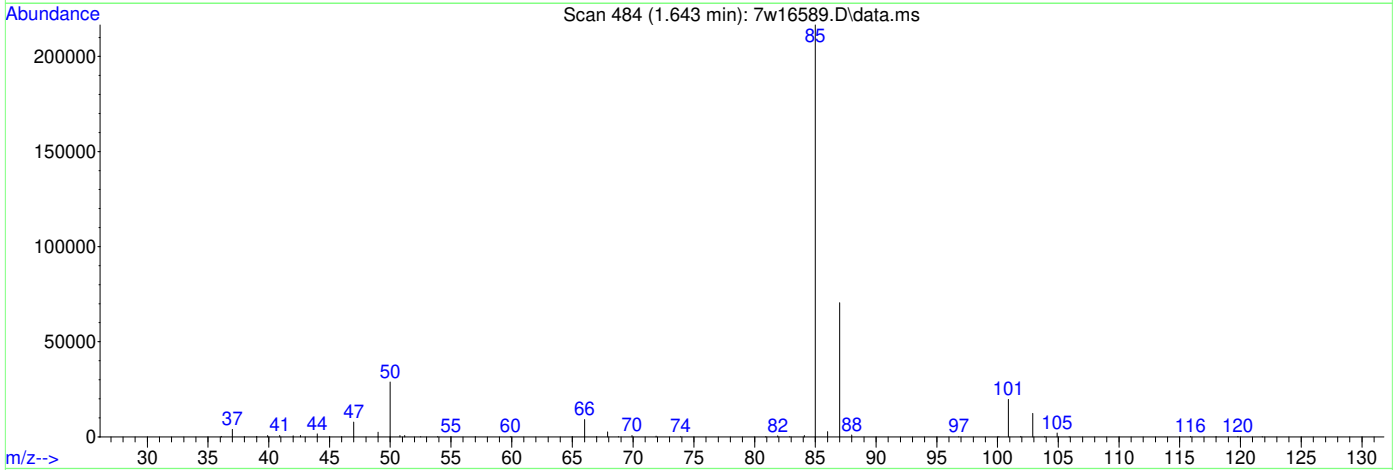
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 5.16PPBV

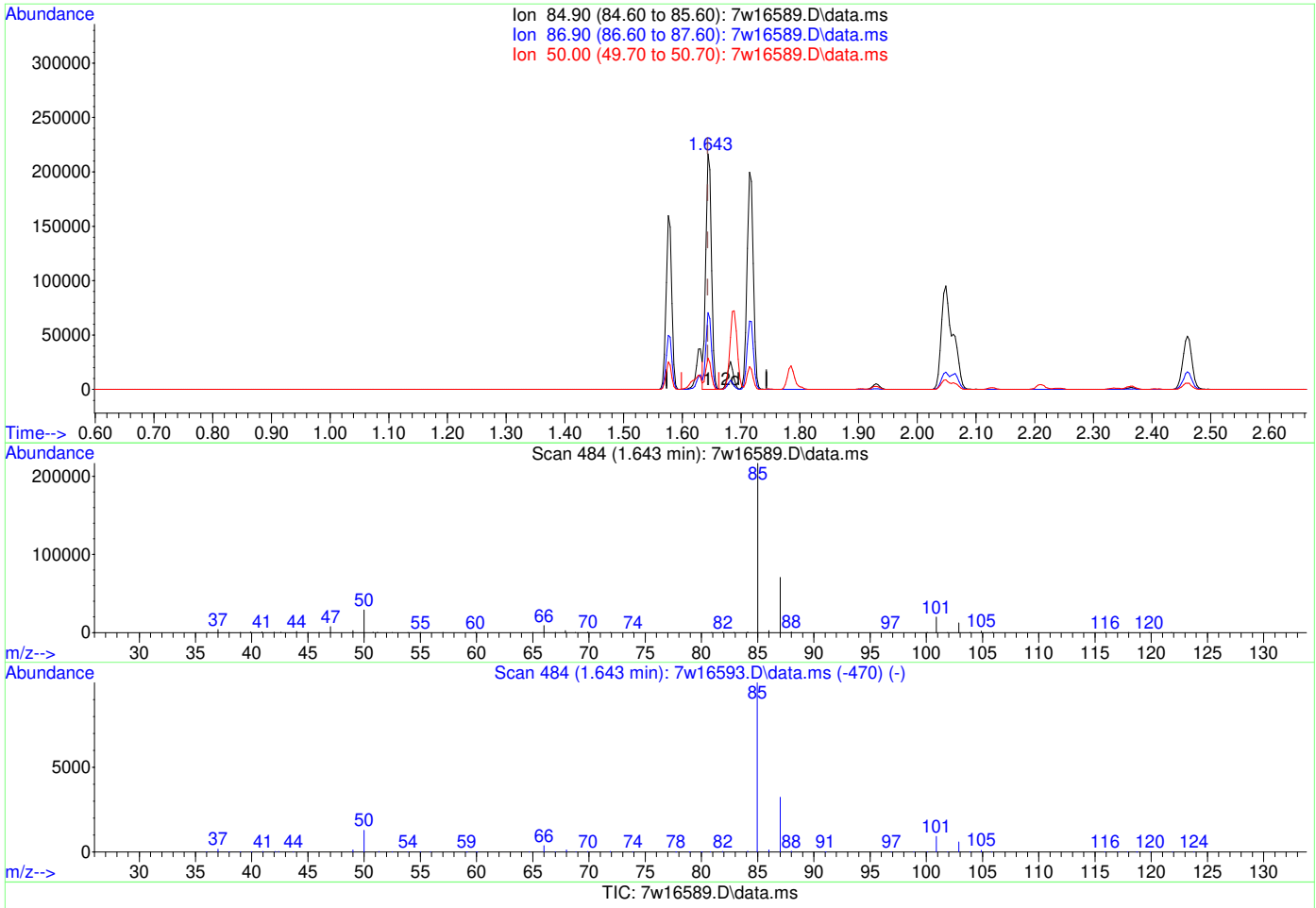
response 170335

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.55
50.00	17.30	19.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 4.36PPBV m

response 143733

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.57
50.00	17.30	22.75#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110672	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	555876	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511162	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110672	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415854	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	148485	10.40	PPBV		88
3) FREON 152A	1.605	65	71639	10.50	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	32817	10.59	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.627	116	161129	10.60	PPBV		71
6) DICHLORODIFLUOROMETHANE	1.643	85	294067m	8.88	PPBV		
7) PROPYLENE	1.627	41	92922	10.60	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	267066	10.80	PPBV		99
9) FREON 114	1.714	85	301155	10.40	PPBV		83
10) CHLOROMETHANE	1.685	52	39544	10.60	PPBV		99
11) VINYL CHLORIDE	1.746	62	141282	10.20	PPBV		99
12) 1,3-BUTADIENE	1.785	54	110559	10.30	PPBV	#	75
13) N-BUTANE	1.801	43	196391	10.67	PPBV		98
14) BROMOMETHANE	1.859	94	107418	10.20	PPBV		97
15) CHLOROETHANE	1.904	64	73302	10.00	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	261718	10.00	PPBV		96
17) ACETONITRILE	1.994	41	111653	9.70	PPBV		96
18) ACROLEIN	2.032	56	63526	10.60	PPBV		96
19) FREON 123	2.049	83	286896	10.73	PPBV		96
20) FREON 123A	2.065	117	168072	10.70	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.126	101	307938	10.10	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	265396	10.50	PPBV		89
23) ACETONE	2.071	58	72855	10.40	PPBV		64
24) PENTANE	2.238	42	138571	10.60	PPBV		88
25) IODOMETHANE	2.299	142	299236	10.70	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	121096	10.70	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	348427	10.60	PPBV		94
28) ETHANOL	1.933	45	62817	9.70	PPBV		98
29) BROMOETHENE	2.004	106	111170	10.10	PPBV		95
30) ACRYLONITRILE	2.209	52	103886	10.70	PPBV		97
31) METHYLENE CHLORIDE	2.364	84	109559	10.20	PPBV	#	74
32) 3-CHLOROPROPENE	2.405	76	62528	10.20	PPBV		72
33) FREON 113	2.460	151	187009	10.60	PPBV		85
34) TRANS-1,2-DICHLOROETHENE	2.685	96	127301	10.20	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.335	59	296206	9.59	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	372073	10.49	PPBV		97
37) TETRAHYDROFURAN	3.466	72	57483	9.70	PPBV		81
38) HEXANE	3.238	57	246511	10.50	PPBV		81
39) VINYL ACETATE	2.827	86	35168	10.20	PPBV		71
40) 1,1-DICHLOROETHANE	2.759	63	250914	10.20	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	65983	10.43	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.113	96	134402	10.34	PPBV	#	74
43) DIISOPROPYL ETHER	3.241	59	70916	10.51	PPBV		94
44) ETHYL ACETATE	3.248	61	50059	10.49	PPBV		62
45) METHYL ACRYLATE	3.235	55	305217	10.50	PPBV	#	98
46) CHLOROFORM	3.261	83	269897	10.50	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	286654	10.70	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	278334	10.38	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	291854	10.20	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.659	62	205888	10.20	PPBV		98
51)	BENZENE	4.126	78	391334	10.41	PPBV		90
53)	CYCLOHEXANE	4.331	84	177560	10.40	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.582	71	92078	10.60	PPBV		68
55)	TRICHLOROETHENE	5.013	95	180016	9.90	PPBV		86
56)	1,2-DICHLOROPROPANE	4.782	63	164997	10.30	PPBV		92
57)	DIBROMOMETHANE	4.740	174	152742	10.28	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	381569	10.50	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.958	83	297999	9.90	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	772831	10.20	PPBV	#	95
61)	1,4-DIOXANE	5.023	88	89212	9.94	PPBV	#	83
62)	HEPTANE	5.418	43	263524	10.40	PPBV		91
63)	METHYL METHACRYLATE	5.315	69	149851	10.30	PPBV		88
64)	METHYL ISOBUTYL KETONE	6.035	58	152356	10.20	PPBV		78
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	257147	10.12	PPBV		96
66)	TOLUENE	7.129	91	488762	10.60	PPBV		97
67)	1,3-DICHLOROPROPANE	7.187	76	252760	10.60	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	227014	9.56	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.765	83	143412	10.50	PPBV		95
70)	2-HEXANONE	7.691	58	203944	10.38	PPBV	#	79
71)	ETHYL METHACRYLATE	7.830	69	260130	10.39	PPBV		95
72)	TETRACHLOROETHENE	8.842	164	181618	10.70	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.659	129	295382	10.40	PPBV		97
74)	1,2-DIBROMOETHANE	8.000	107	267727	10.99	PPBV		99
75)	OCTANE	8.994	43	371213	10.70	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	219545	10.90	PPBV		93
78)	CHLOROBENZENE	10.042	112	401465	10.90	PPBV		90
79)	ETHYLBENZENE	10.923	91	667794	11.00	PPBV		97
80)	M,P-XYLENE	11.350	91	1033120	21.20	PPBV		96
81)	O-XYLENE	12.283	91	525465	11.00	PPBV		95
82)	STYRENE	12.067	104	405889	10.90	PPBV		94
83)	NONANE	13.402	43	395697	10.80	PPBV		83
84)	BROMOFORM	11.157	173	257628	10.60	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	382601	10.99	PPBV		98
86)	1,2,3-TRICHLOROPROPANE	12.572	75	301186	11.00	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	197546	10.80	PPBV		87
89)	BROMOBENZENE	13.656	77	373873	10.80	PPBV		76
90)	2-CHLOROTOLUENE	14.784	126	179837	10.39	PPBV		99
91)	N-PROPYLBENZENE	15.125	120	208155	10.50	PPBV		97
92)	4-ETHYLTOLUENE	15.569	105	761814	10.60	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	641174	10.70	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.173	118	317898	10.40	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	157456	10.90	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	660136	10.90	PPBV		95
97)	BENZYL CHLORIDE	16.601	91	547978	10.50	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	424825	10.50	PPBV		96
99)	P-DICHLOROBENZENE	16.665	146	430477	10.80	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	400770	10.70	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	191611	11.00	PPBV		83
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	636319	10.70	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	211524	10.80	PPBV		95
104)	N-BUTYLBENZENE	17.379	134	205284	10.90	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	254836	10.90	PPBV		97
106)	HEXACHLOROBUTADIENE	18.636	225	300683	11.70	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.321	180	387303	11.70	PPBV		99
108)	NAPHTHALENE	18.366	128	909462	11.80	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	646941	10.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

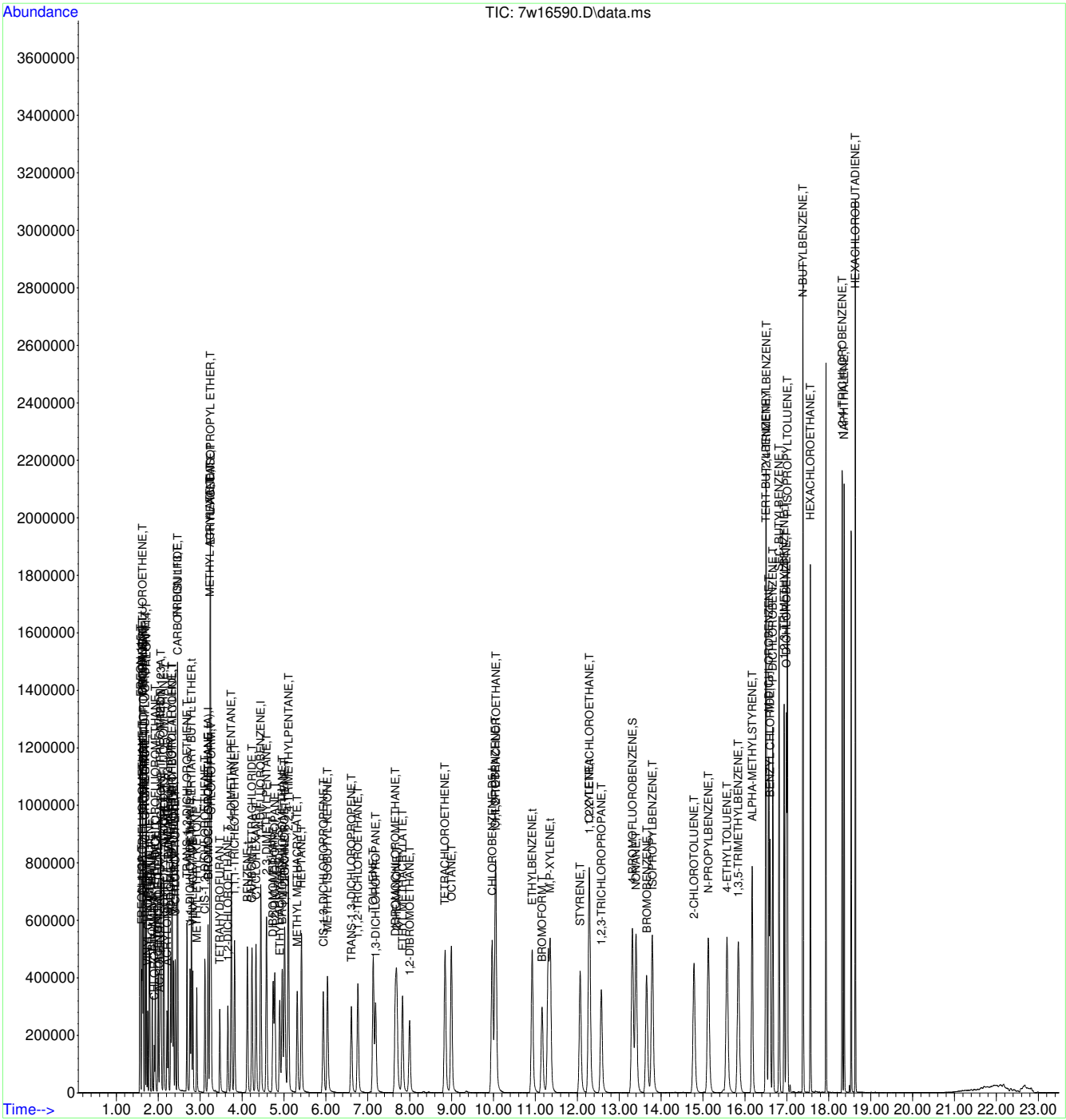
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

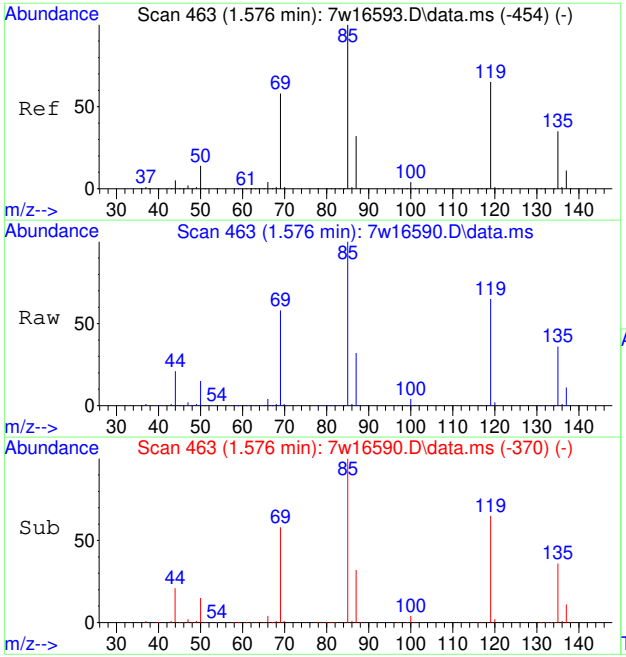
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

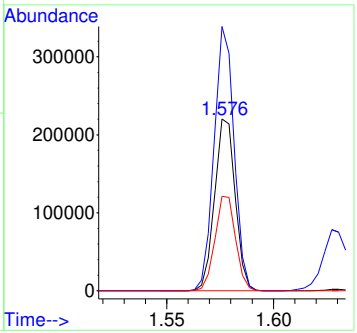


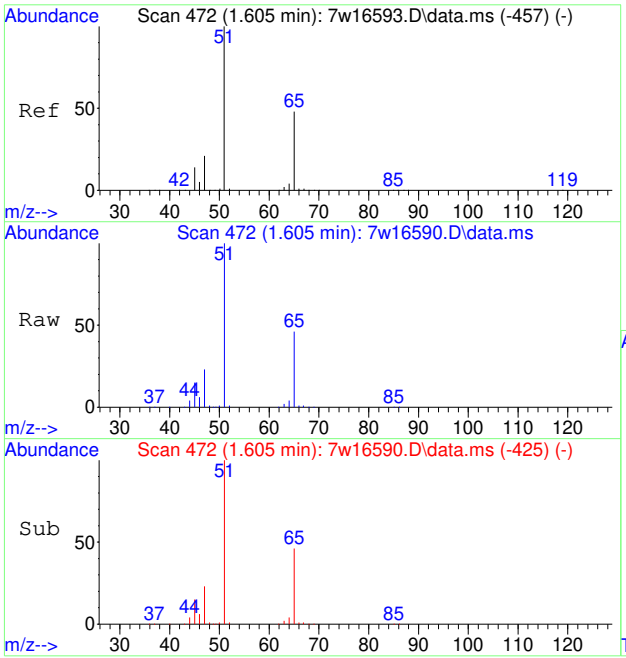


#2
FREON 115
Concen: 10.40 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:119 Resp: 148485

Ion	Ratio	Lower	Upper
119	100		
85	149.1	90.9	168.7
135	55.2	38.2	71.0

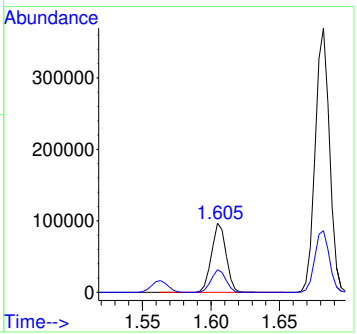


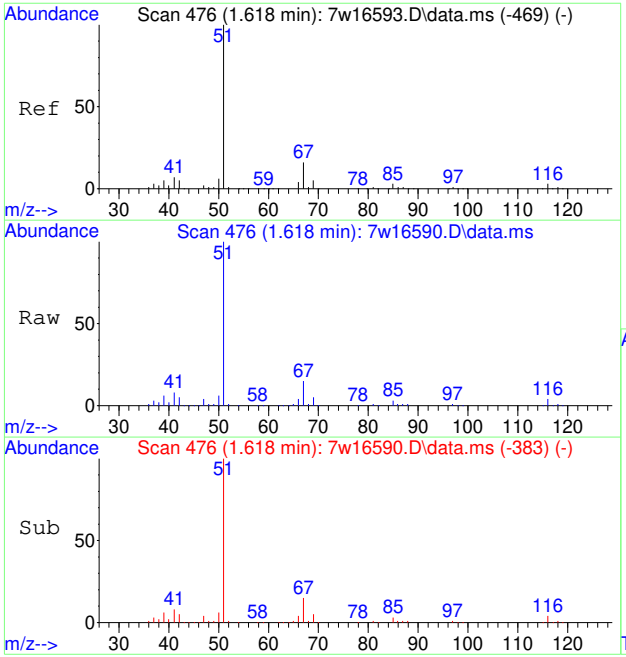


#3
FREON 152A
Concen: 10.50 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 71639

Ion	Ratio	Lower	Upper
65	100		
45	32.9	20.6	38.4

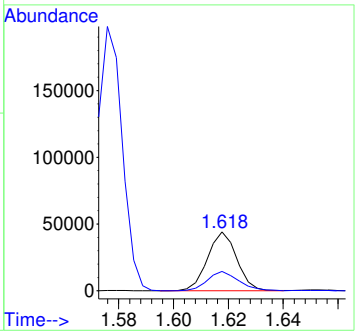


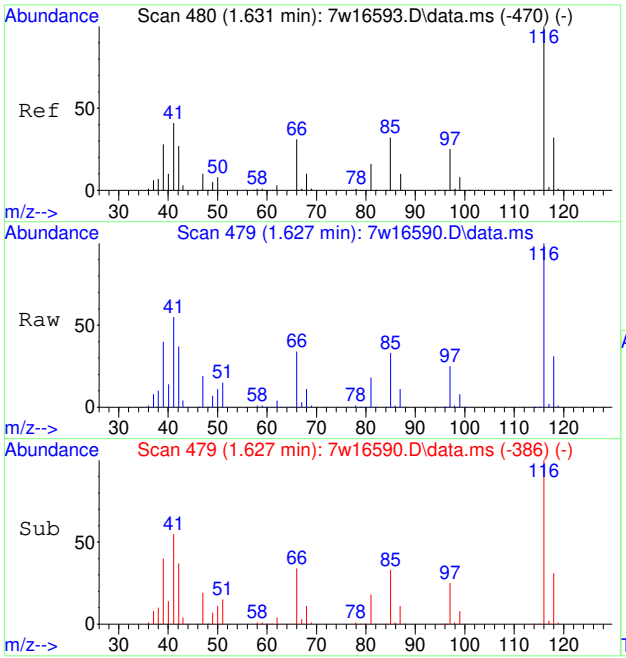


#4
CHLORODIFLUOROMETHANE
Concen: 10.59 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 32817

Ion	Ratio	Lower	Upper
67	100		
69	36.2	25.4	47.2

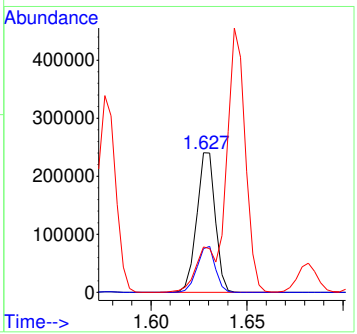


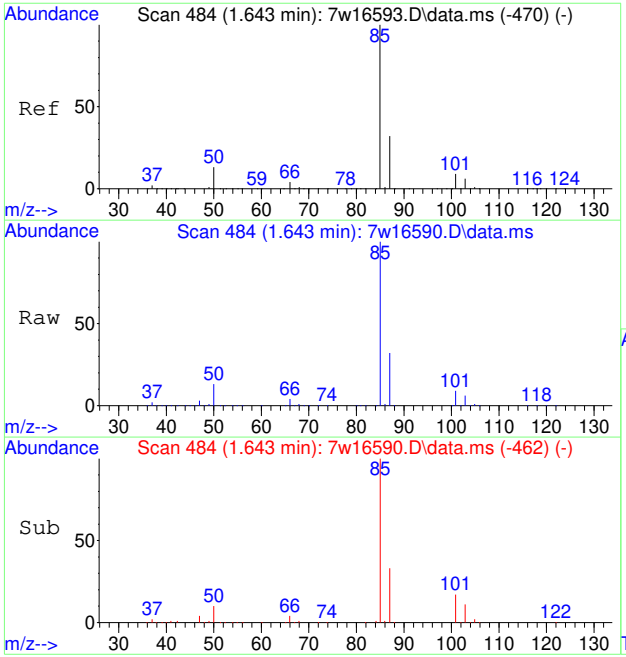


#5
CHLOROTRIFLUOROETHENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:116 Resp: 161129

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	217.7	194.7	361.7

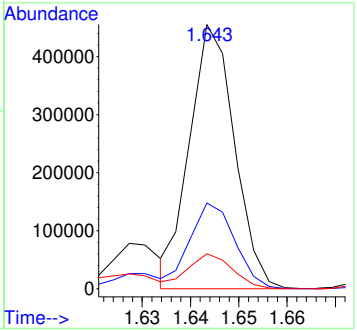


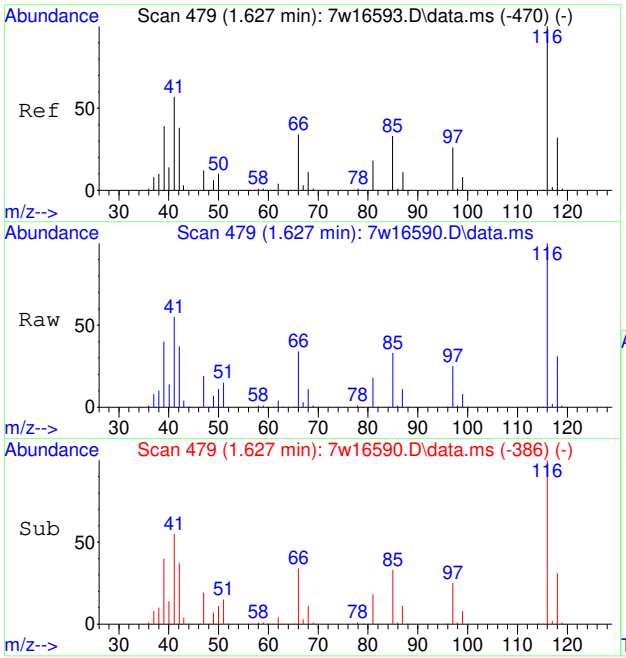


#6
DICHLORODIFLUOROMETHANE
Concen: 8.88 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 294067

Ion	Ratio	Lower	Upper
85	100		
87	39.2	23.1	42.9
50	23.1	12.1	22.5#

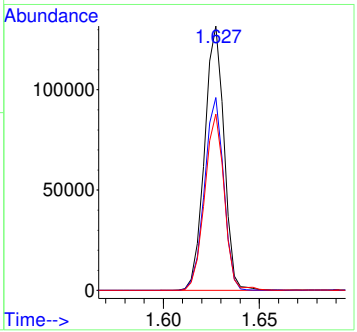


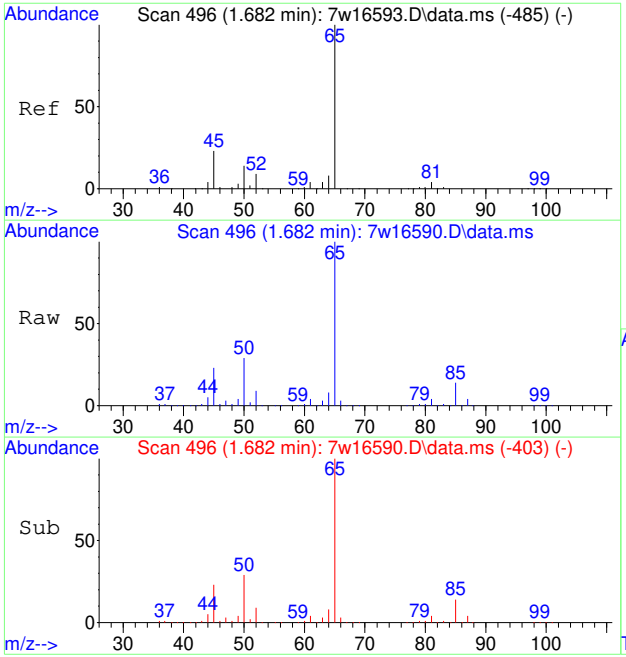


#7
PROPYLENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 92922

Ion	Ratio	Lower	Upper
41	100		
39	72.1	51.0	94.8
42	67.2	46.6	86.6

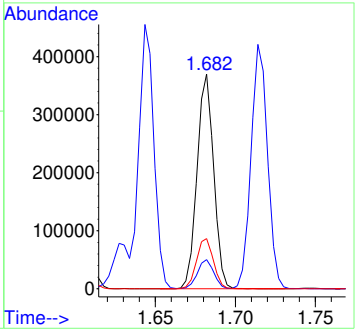


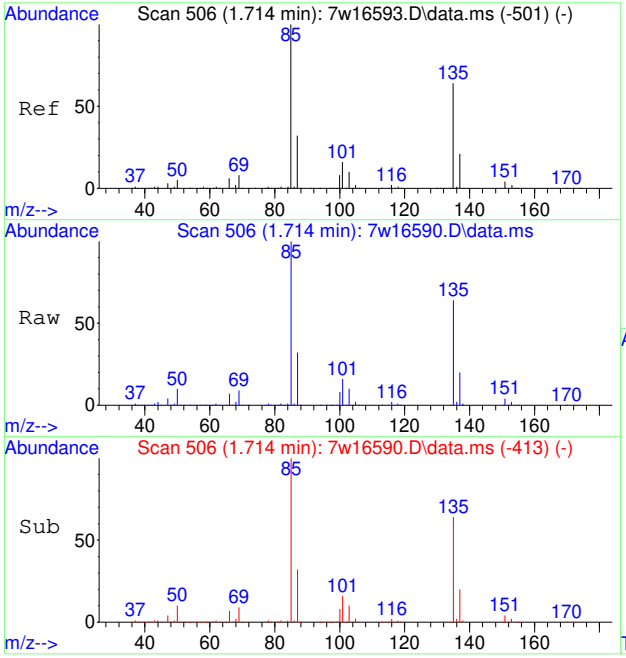


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.80 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 267066

Ion	Ratio	Lower	Upper
65	100		
85	13.4	9.7	17.9
45	24.1	17.0	31.6

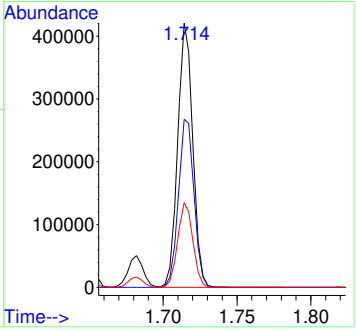


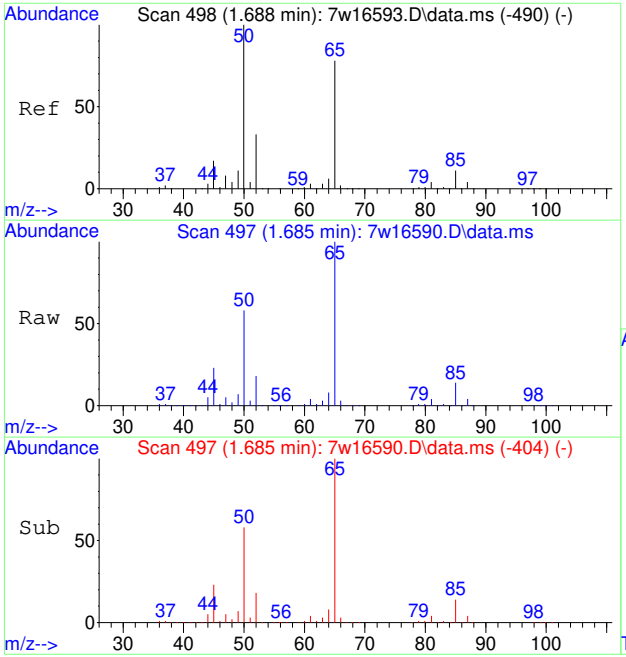


#9
FREON 114
Concen: 10.40 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 301155

Ion	Ratio	Lower	Upper
85	100		
135	65.9	61.3	113.9
87	32.3	23.2	43.0

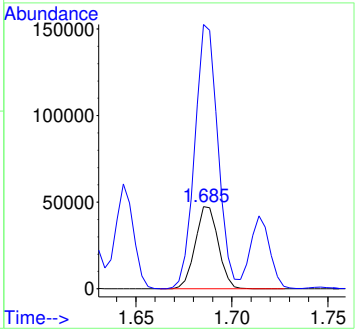


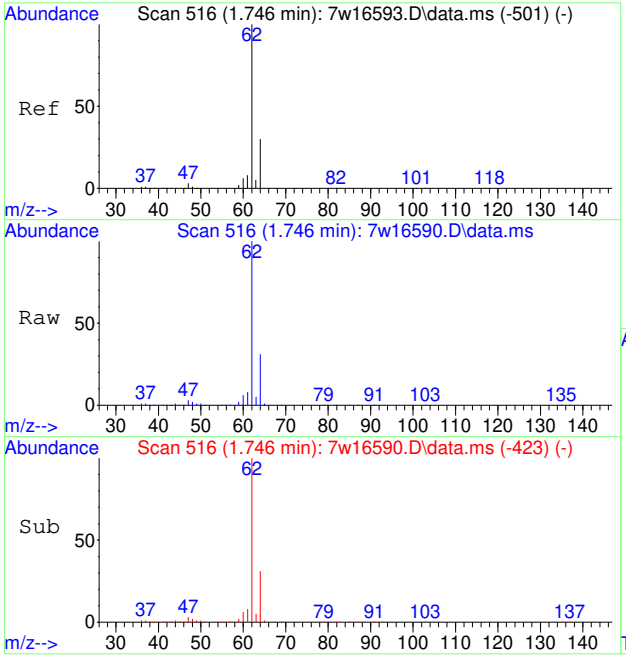


#10
CHLOROMETHANE
Concen: 10.60 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 39544

Ion	Ratio	Lower	Upper
52	100		
50	322.3	227.6	422.6

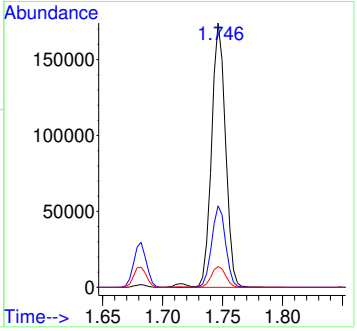


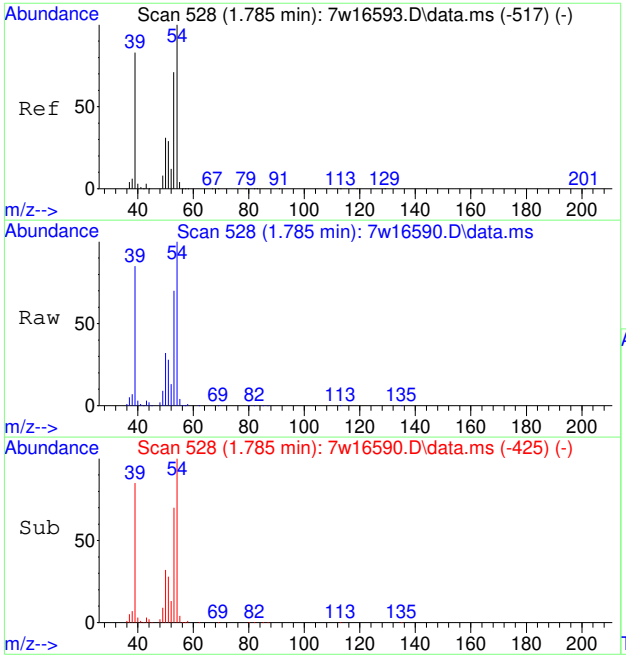


#11
VINYL CHLORIDE
Concen: 10.20 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 141282

Ion	Ratio	Lower	Upper
62	100		
64	30.5	21.6	40.2
61	8.1	5.7	10.7

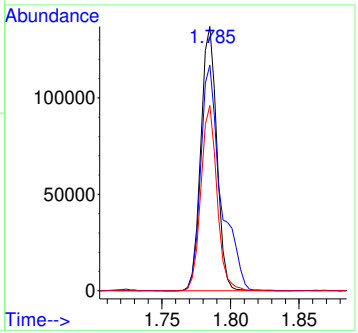


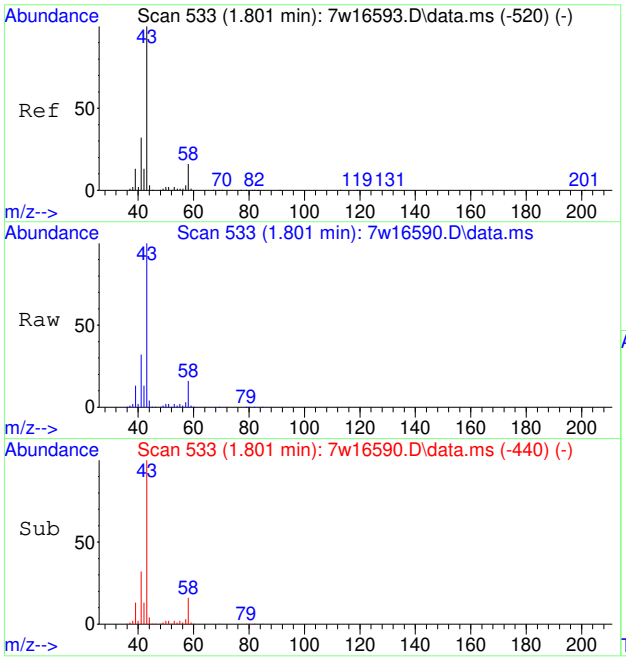


#12
1,3-BUTADIENE
Concen: 10.30 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 54 Resp: 110559

Ion	Ratio	Lower	Upper
54	100		
39	108.4	125.6	185.6#
53	70.9	40.7	100.7

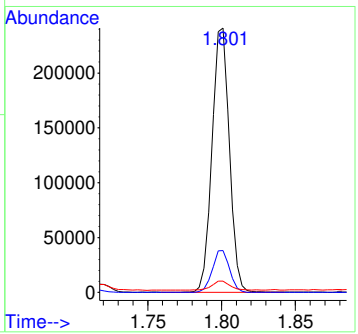


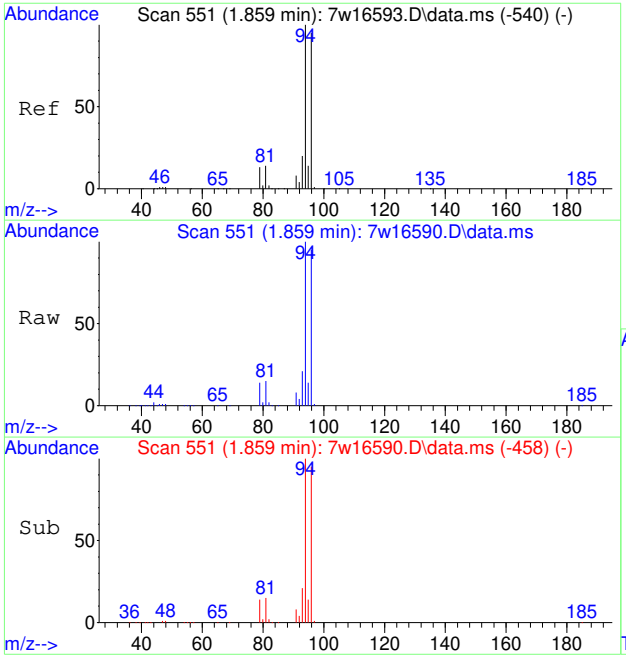


#13
N-BUTANE
Concen: 10.67 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 196391

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	3.7	3.0	5.6

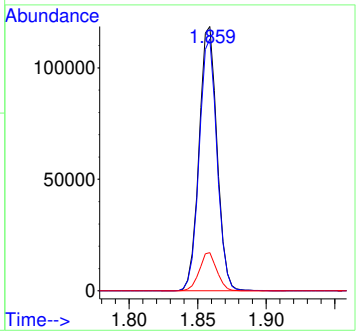


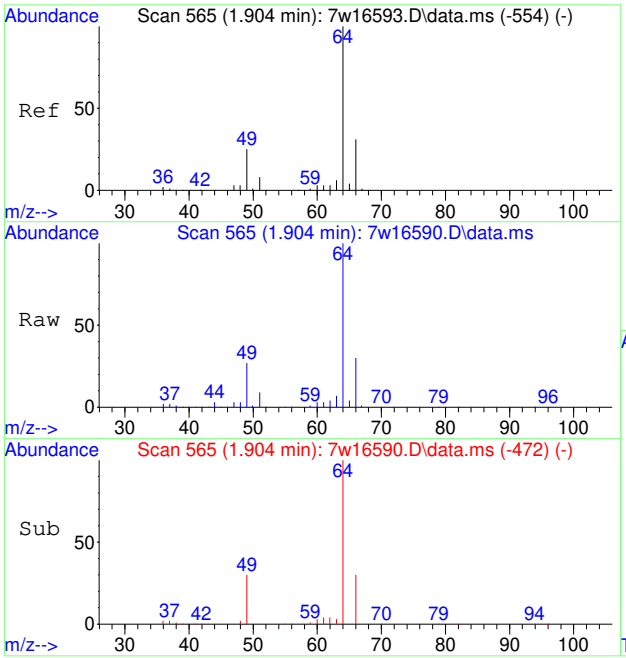


#14
BROMOMETHANE
Concen: 10.20 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 94 Resp: 107418

Ion	Ratio	Lower	Upper
94	100		
96	94.4	63.6	118.0
95	14.1	10.0	18.6

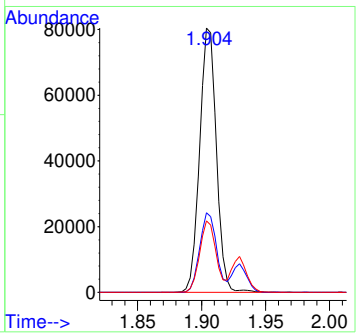


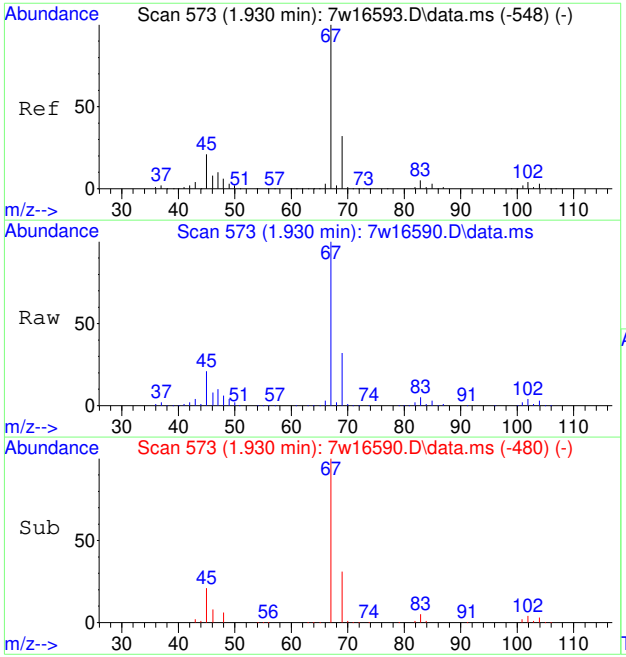


#15
CHLOROETHANE
Concen: 10.00 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 64 Resp: 73302

Ion	Ratio	Lower	Upper
64	100		
66	30.7	23.0	42.6
49	27.2	21.5	39.9

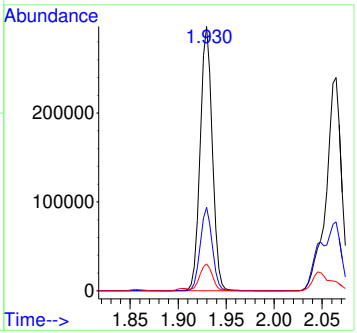


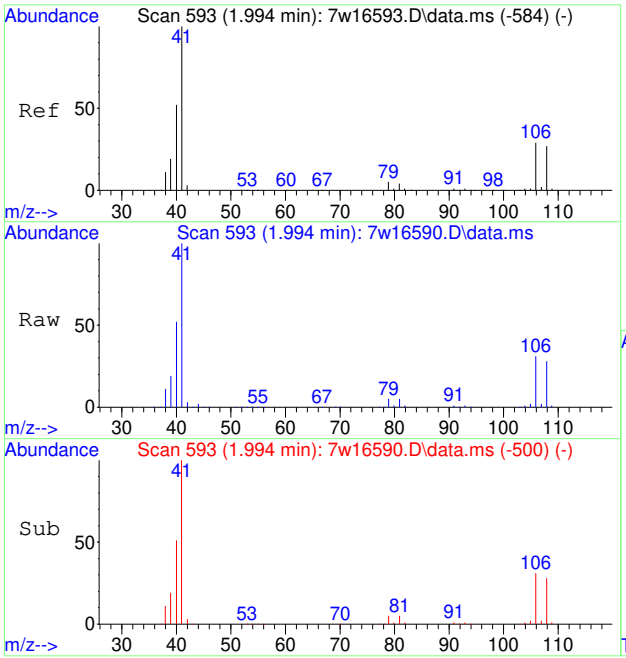


#16
DICHLOROFLUOROMETHANE
Concen: 10.00 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 261718

Ion	Ratio	Lower	Upper
67	100		
69	31.2	23.2	43.0
47	11.4	9.6	17.8

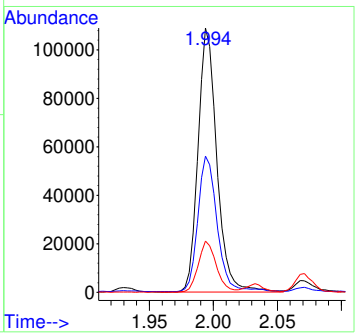


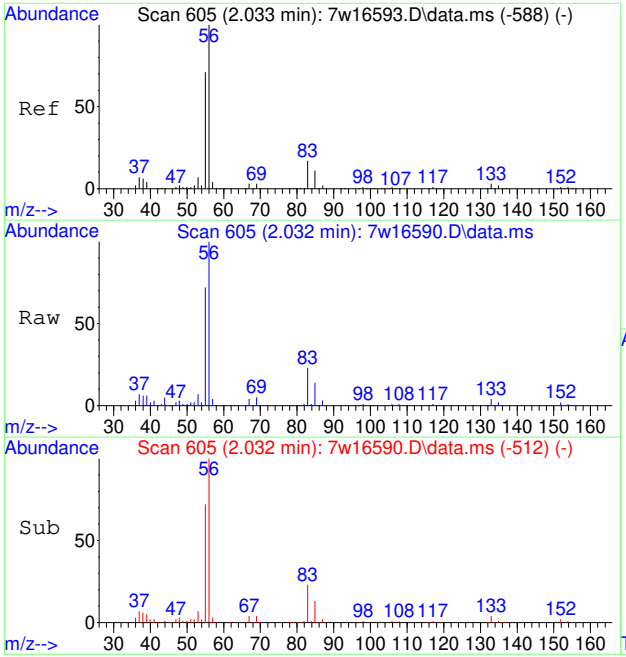


#17
ACETONITRILE
Concen: 9.70 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 111653

Ion	Ratio	Lower	Upper
41	100		
40	52.4	38.4	71.4
39	18.7	14.5	26.9

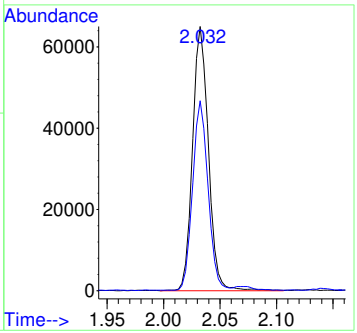


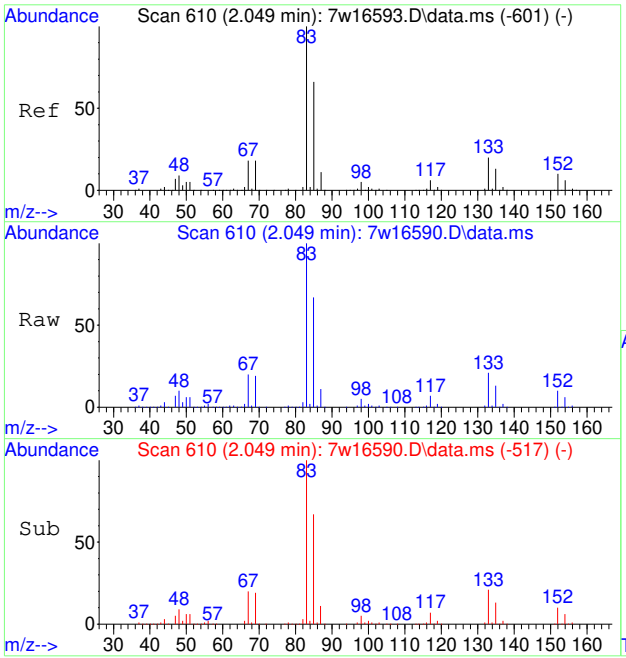


#18
ACROLEIN
Concen: 10.60 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 56 Resp: 63526

Ion	Ratio	Lower	Upper
56	100		
55	69.8	51.2	95.2

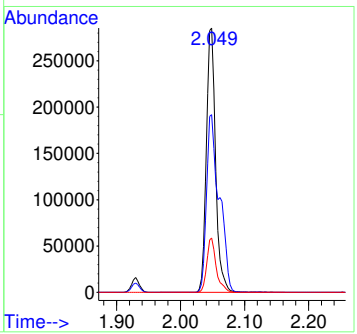


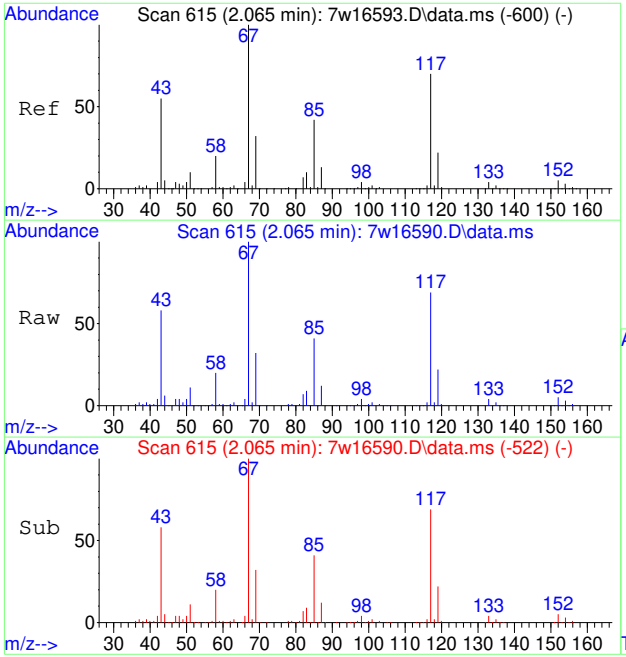


#19
FREON 123
Concen: 10.73 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 286896

Ion	Ratio	Lower	Upper
83	100		
85	92.7	65.7	121.9
133	21.0	19.9	36.9

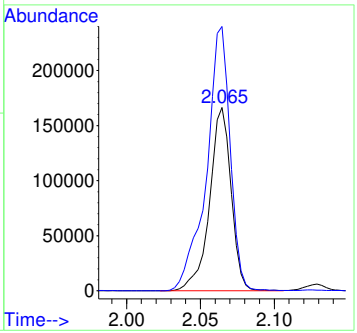


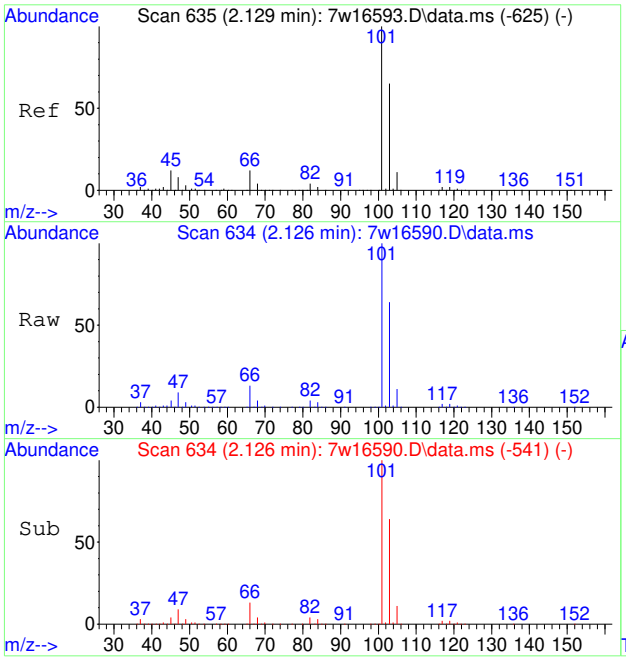


#20
FREON 123A
Concen: 10.70 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 168072

Ion	Ratio	Lower	Upper
117	100		
67	159.0	78.8	146.4#

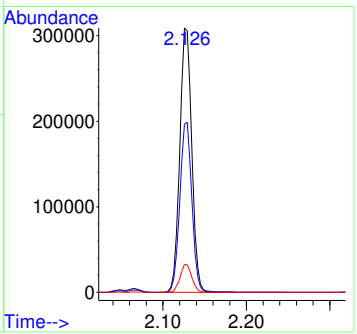


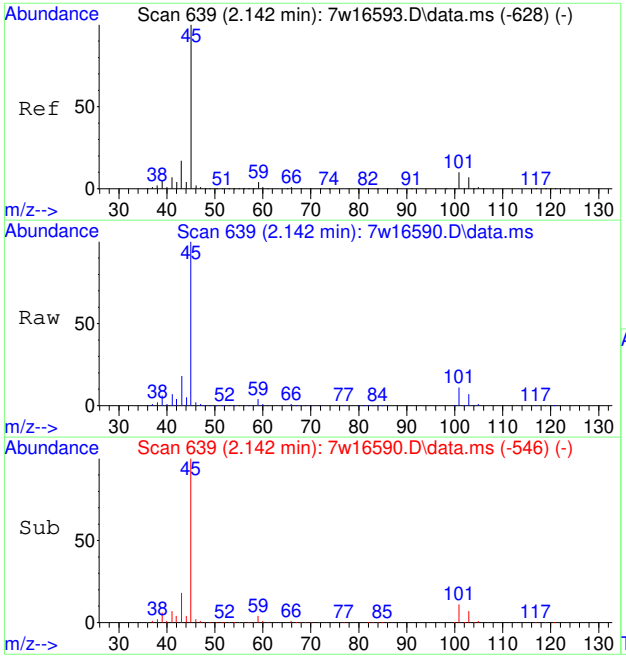


#21
TRICHLOROFLUOROMETHANE
Concen: 10.10 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:101 Resp: 307938

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.4	7.3	13.7

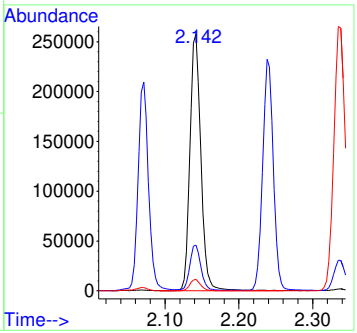


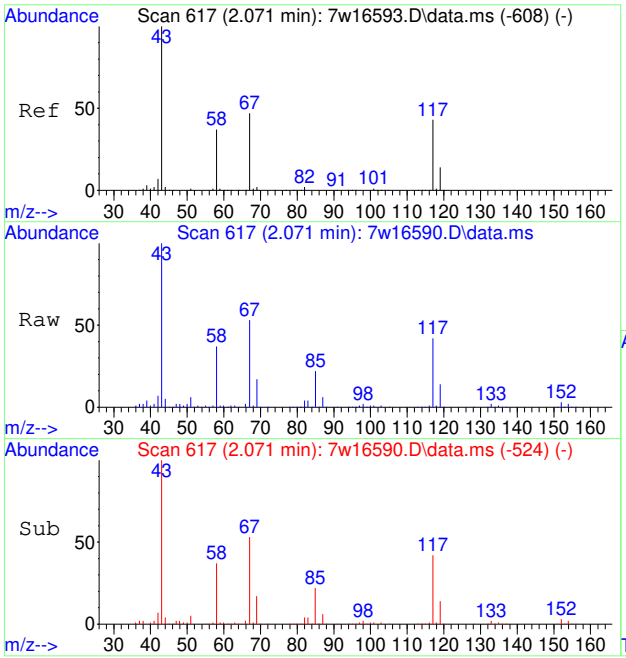


#22
ISOPROPYL ALCOHOL
Concen: 10.50 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 265396

Ion	Ratio	Lower	Upper
45	100		
43	17.9	17.1	31.9
59	4.4	3.1	5.8

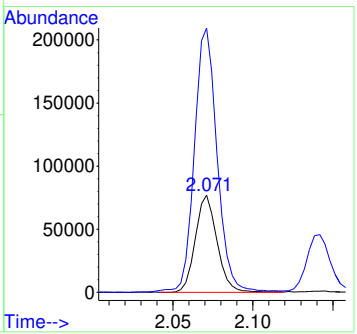


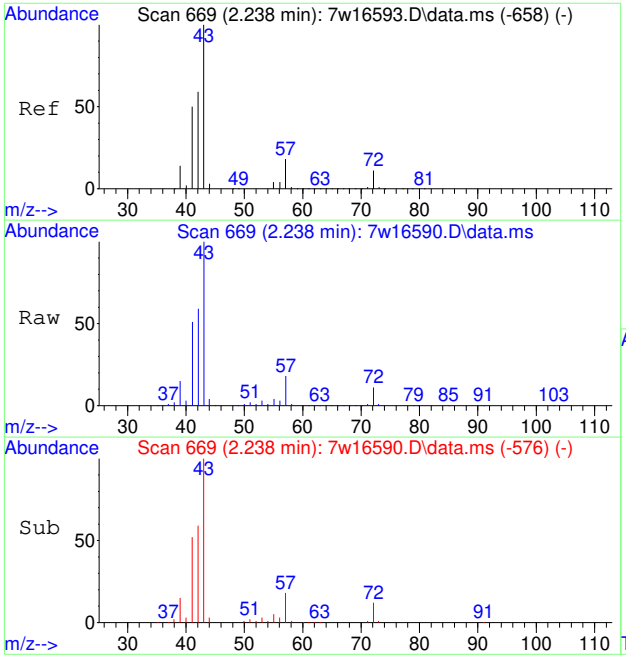


#23
ACETONE
Concen: 10.40 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 72855

Ion	Ratio	Lower	Upper
58	100		
43	283.7	254.0	471.6

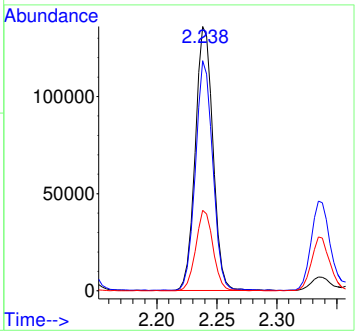


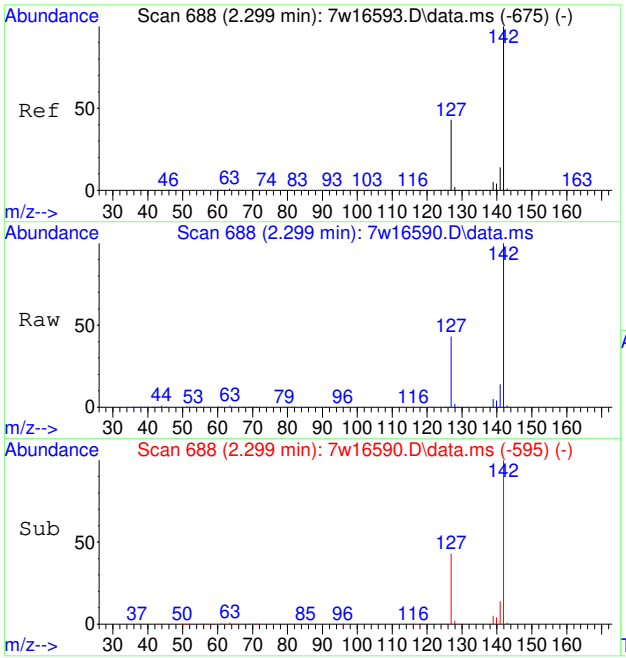


#24
PENTANE
Concen: 10.60 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 42 Resp: 138571

Ion	Ratio	Lower	Upper
42	100		
41	85.4	69.2	128.6
57	30.1	18.6	34.6

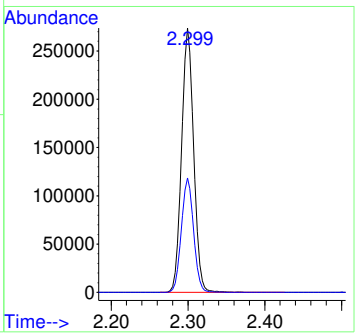


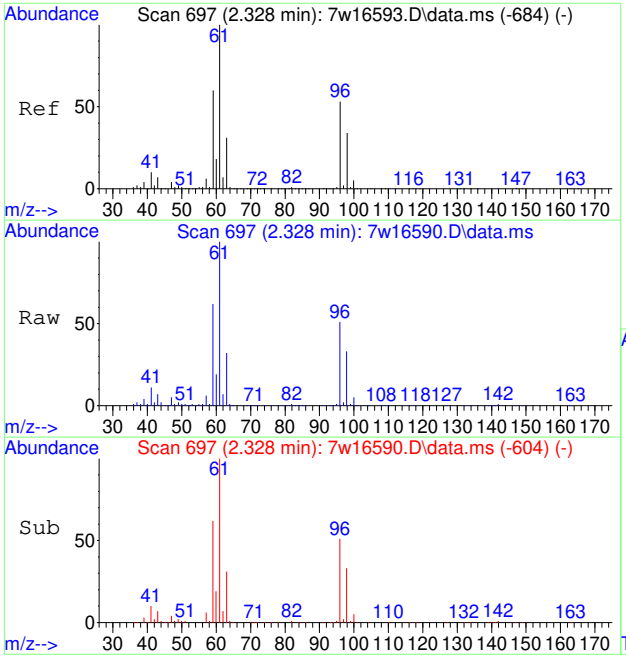


#25
IODOMETHANE
Concen: 10.70 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:142 Resp: 299236

Ion	Ratio	Lower	Upper
142	100		
127	43.7	32.1	59.7

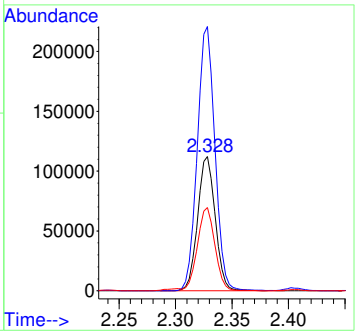


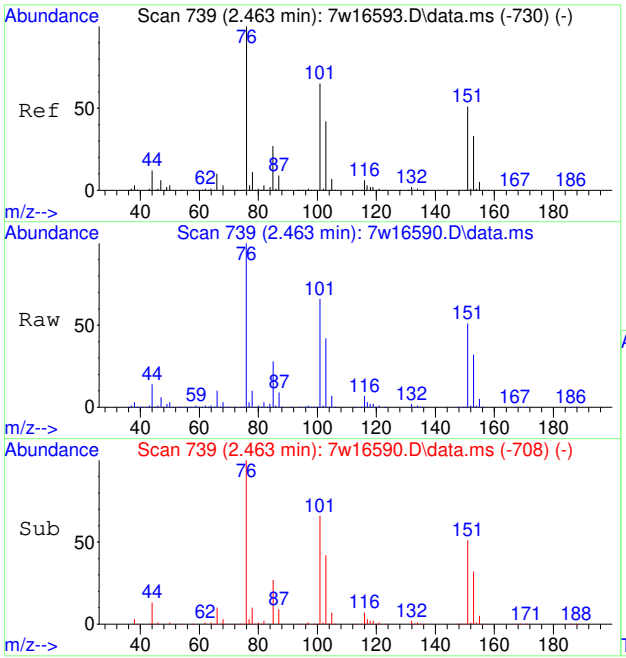


#26
1,1-DICHLOROETHYLENE
Concen: 10.70 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 121096

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	63.1	33.2	61.7#

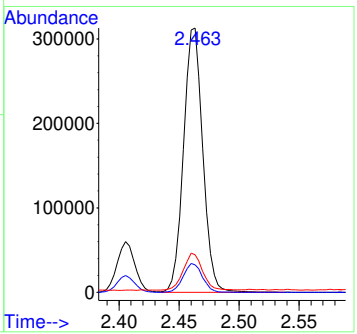


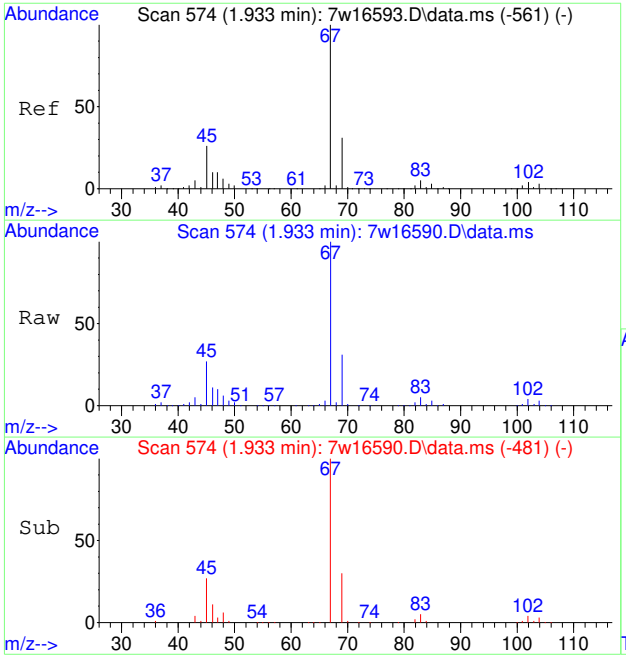


#27
CARBON DISULFIDE
Concen: 10.60 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 348427

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	14.6	13.0	24.1

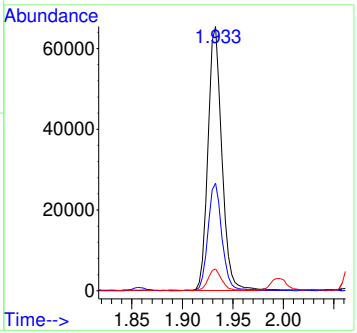


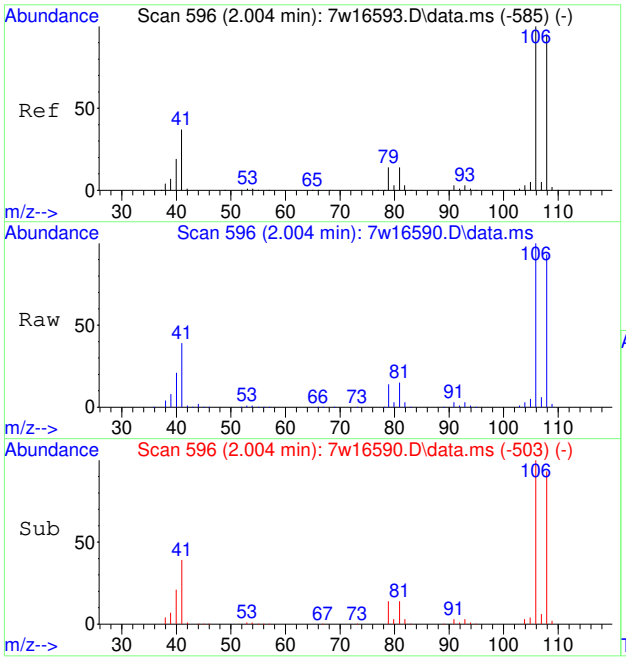


#28
ETHANOL
Concen: 9.70 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 62817

Ion	Ratio	Lower	Upper
45	100		
46	41.5	29.7	55.1
42	8.1	7.3	13.5

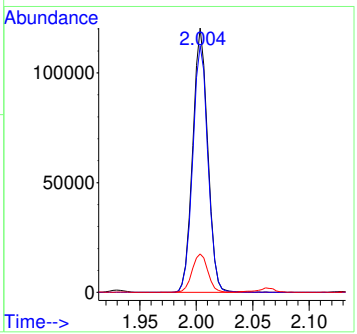


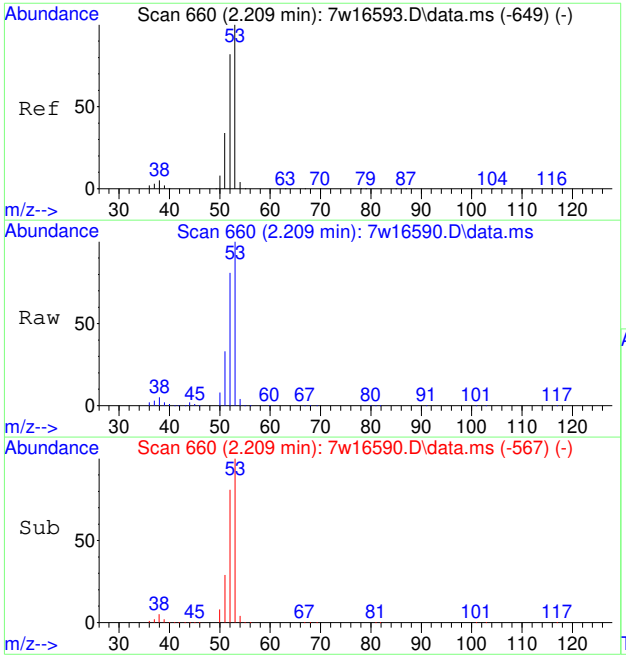


#29
BROMOETHENE
Concen: 10.10 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:106 Resp: 111170

Ion	Ratio	Lower	Upper
106	100		
108	94.4	68.3	126.8
81	15.2	14.7	27.3

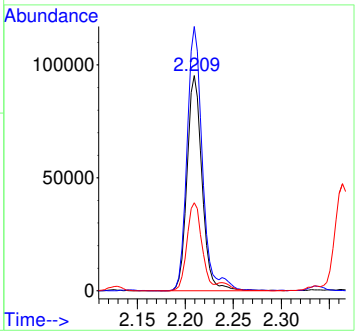


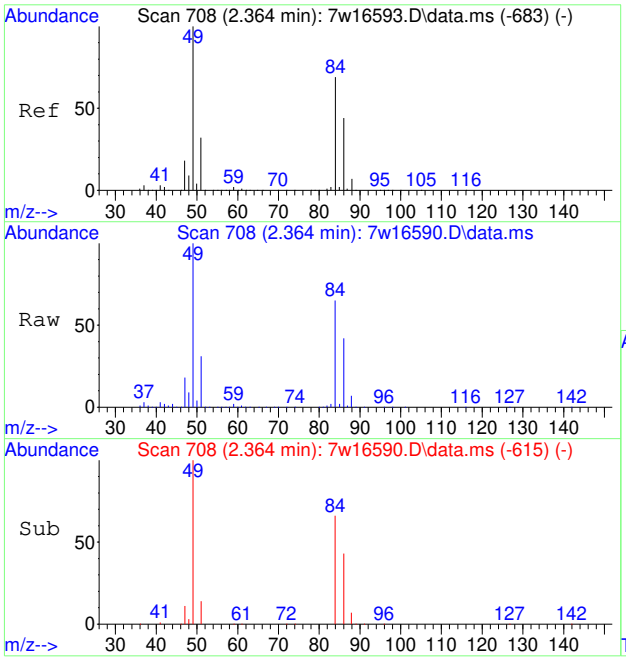


#30
ACRYLONITRILE
Concen: 10.70 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 103886

Ion	Ratio	Lower	Upper
52	100		
53	126.0	86.3	160.3
51	44.7	33.6	62.4

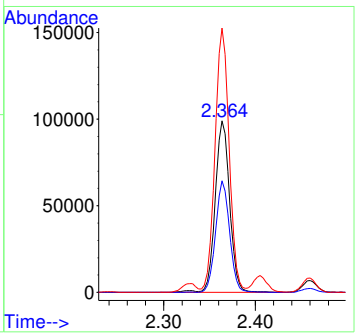


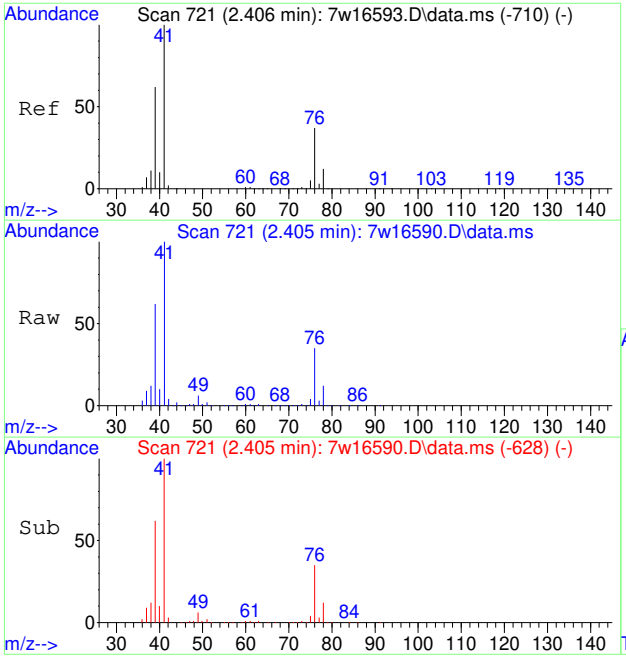


#31
METHYLENE CHLORIDE
Concen: 10.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 109559

Ion	Ratio	Lower	Upper
84	100		
86	63.3	44.9	83.5
49	156.4	79.7	148.1#

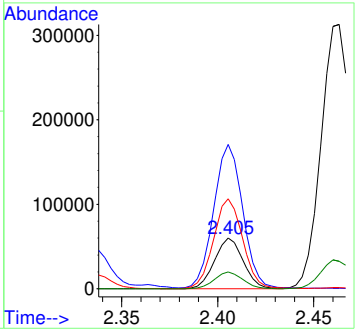


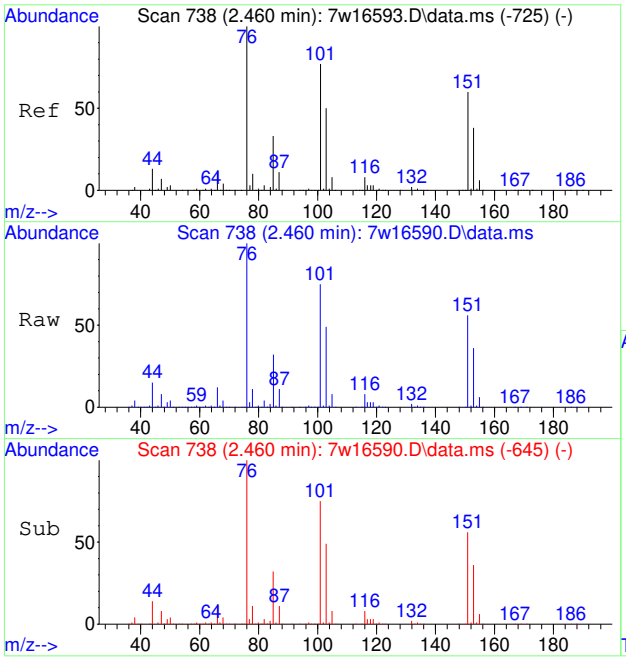


#32
3-CHLOROPROPENE
Concen: 10.20 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 62528

Ion	Ratio	Lower	Upper
76	100		
41	289.4	160.9	298.9
39	179.7	150.7	279.9
78	33.0	22.7	42.1

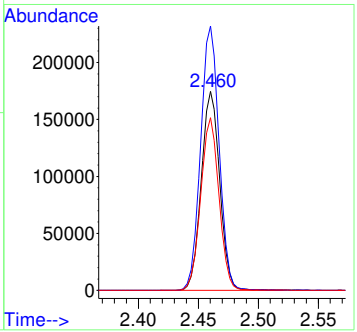


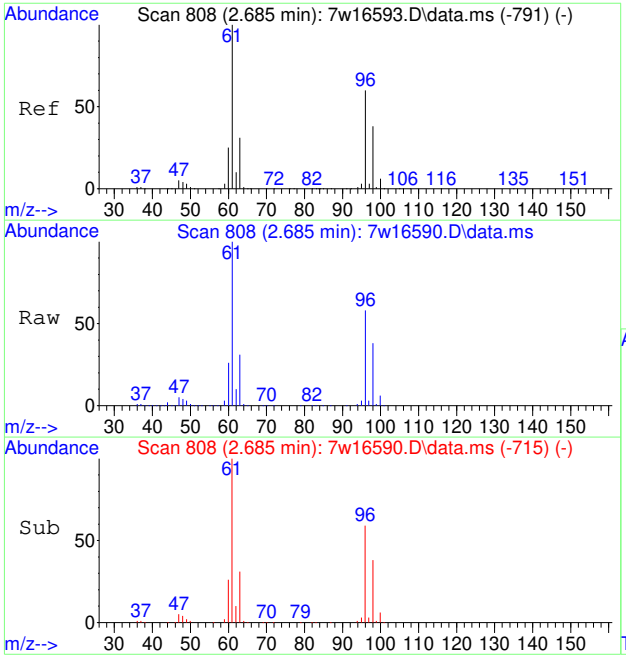


#33
FREON 113
Concen: 10.60 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:151 Resp: 187009

Ion	Ratio	Lower	Upper
151	100		
101	133.0	81.1	150.7
103	85.8	51.4	95.4

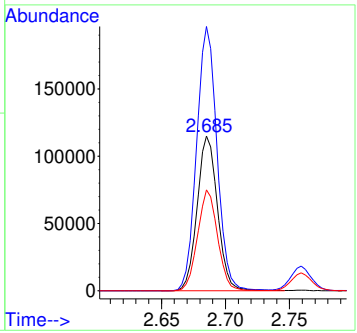


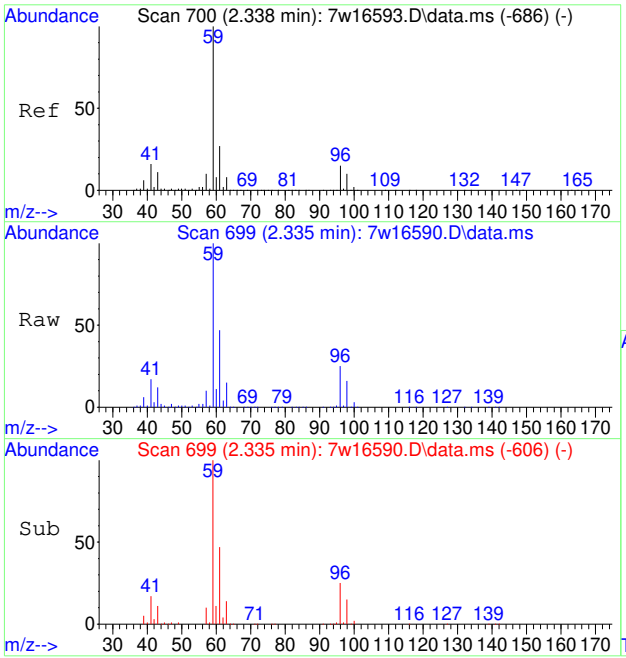


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.20 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 127301

Ion	Ratio	Lower	Upper
96	100		
61	170.8	78.5	145.9#
98	64.2	46.5	86.3

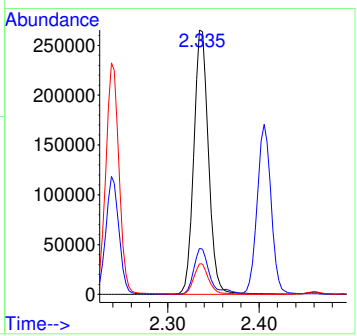


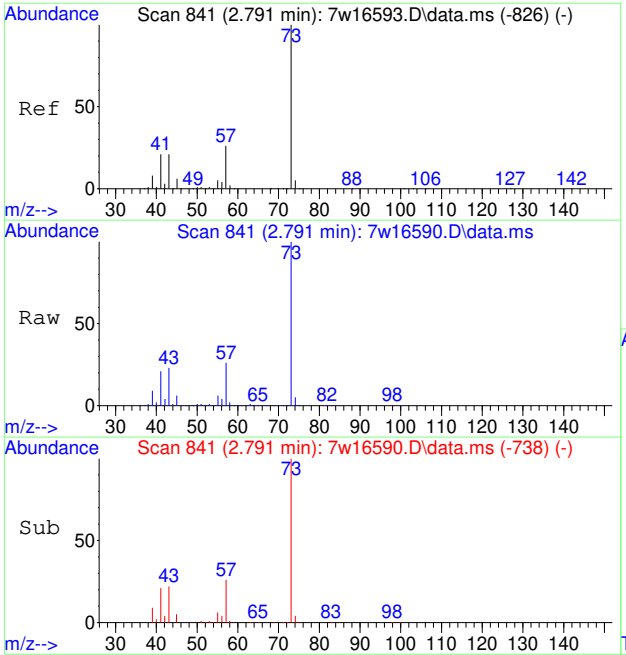


#35
TERTIARY BUTYL ALCOHOL
Concen: 9.59 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 59 Resp: 296206

Ion	Ratio	Lower	Upper
59	100		
41	18.4	15.3	28.5
43	11.4	12.3	22.9#

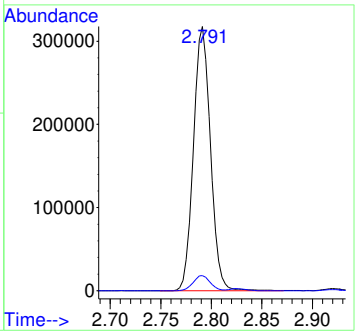


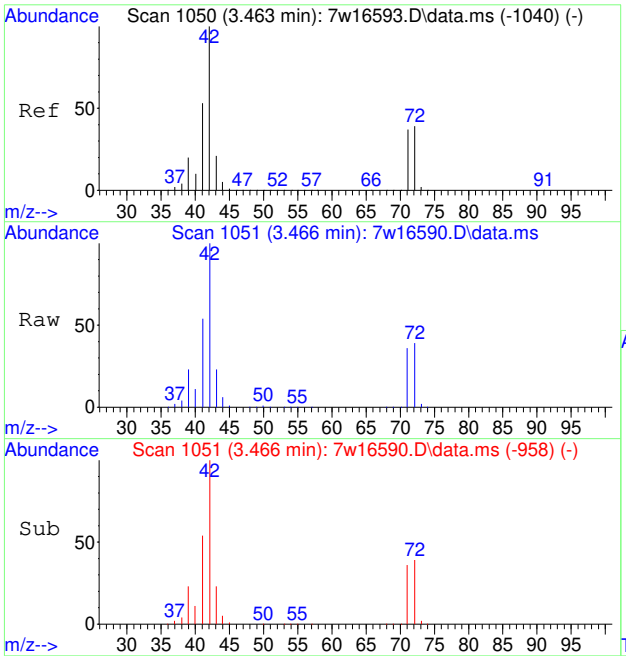


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.49 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 73 Resp: 372073

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

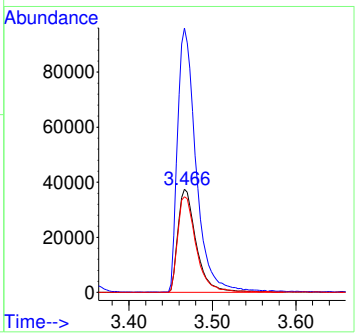


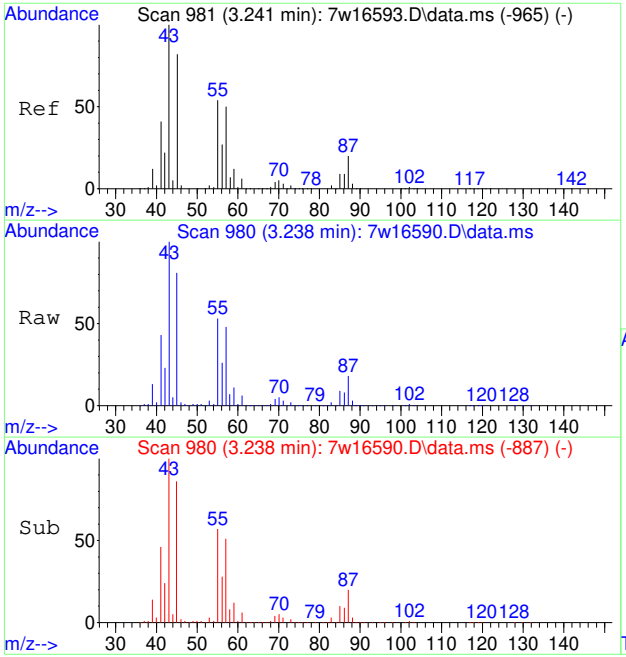


#37
TETRAHYDROFURAN
Concen: 9.70 PPBV
RT: 3.466 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 57483

Ion	Ratio	Lower	Upper
72	100		
42	257.5	153.0	284.2
71	94.0	62.7	116.5

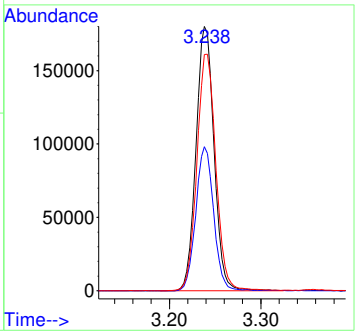


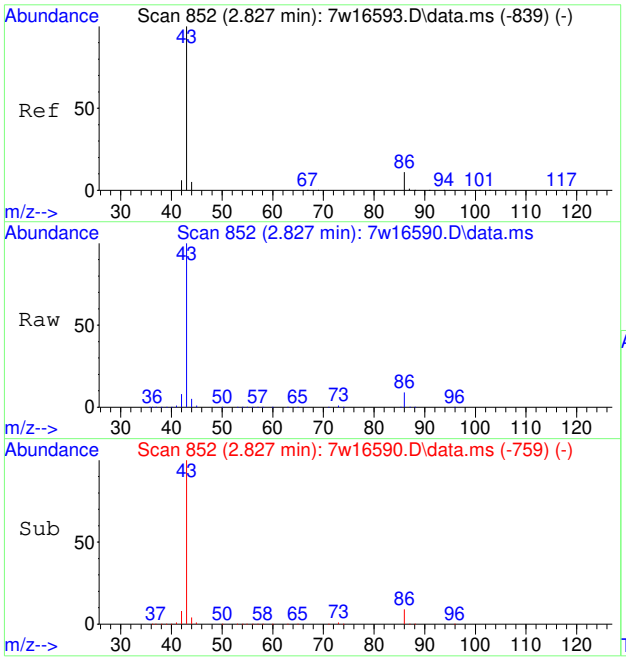


#38
HEXANE
Concen: 10.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 246511

Ion	Ratio	Lower	Upper
57	100		
56	54.3	37.3	69.3
41	94.2	86.7	161.1

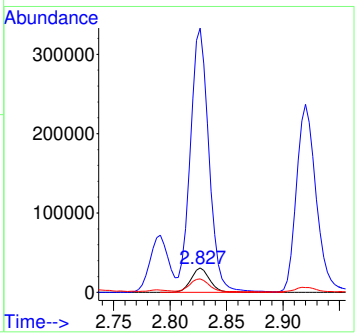


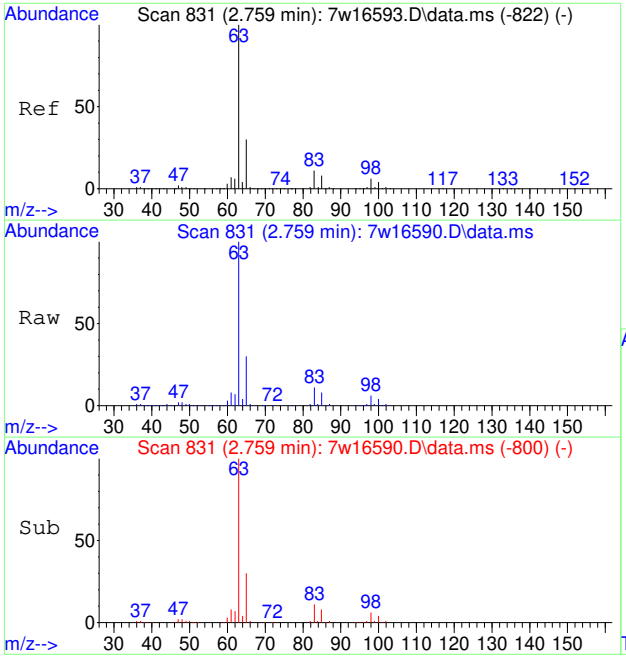


#39
VINYL ACETATE
Concen: 10.20 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 86 Resp: 35168

Ion	Ratio	Lower	Upper
86	100		
43	1083.8	667.9	1240.3
44	56.4	32.7	60.7

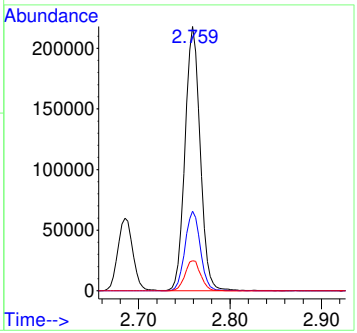


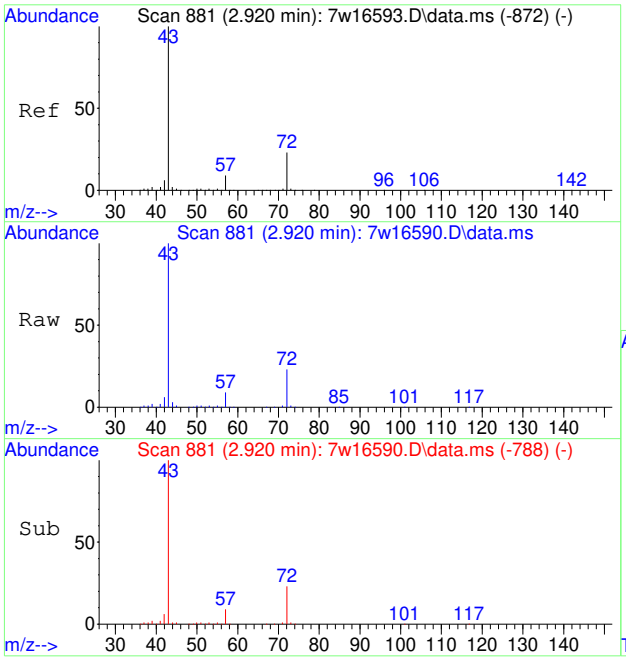


#40
1,1-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 250914

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.8	40.6
83	11.9	10.6	19.6

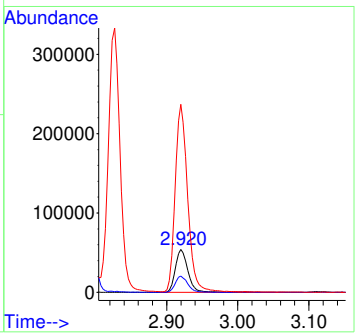


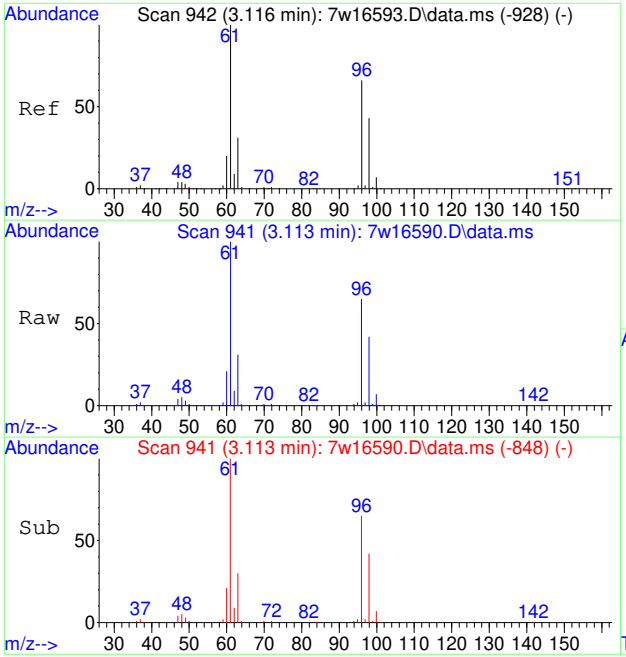


#41
METHYL ETHYL KETONE
Concen: 10.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 65983

Ion	Ratio	Lower	Upper
72	100		
57	38.4	20.3	37.7#
43	442.0	282.8	525.2

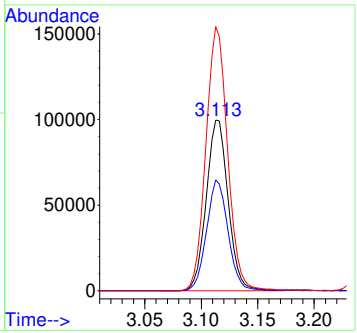


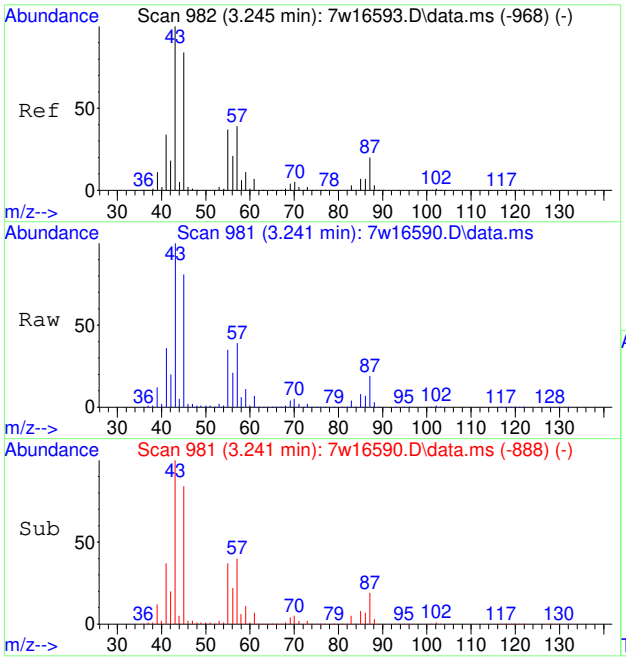


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.34 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 134402

Ion	Ratio	Lower	Upper
96	100		
98	63.9	46.8	86.8
61	153.3	78.3	145.5#

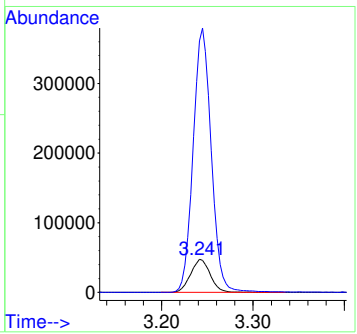


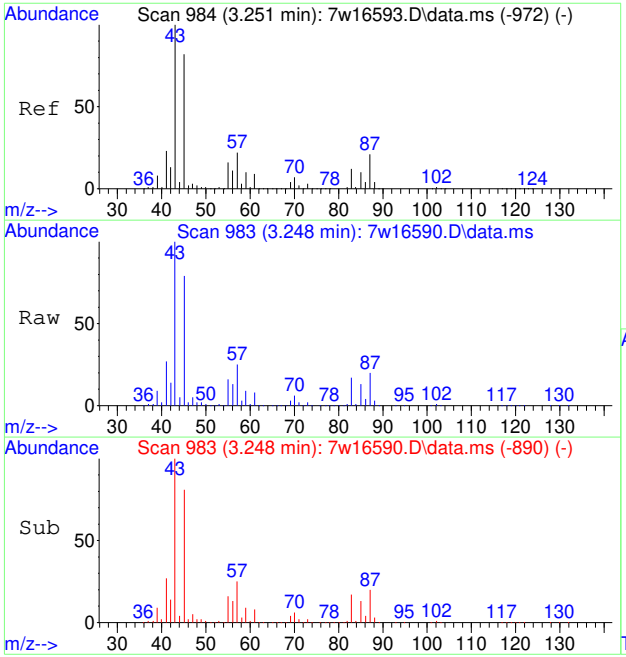


#43
DIISOPROPYL ETHER
Concen: 10.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 59 Resp: 70916

Ion	Ratio	Lower	Upper
59	100		
45	739.4	532.1	988.1

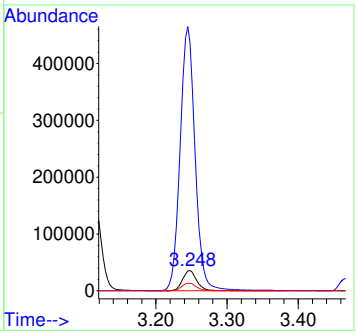


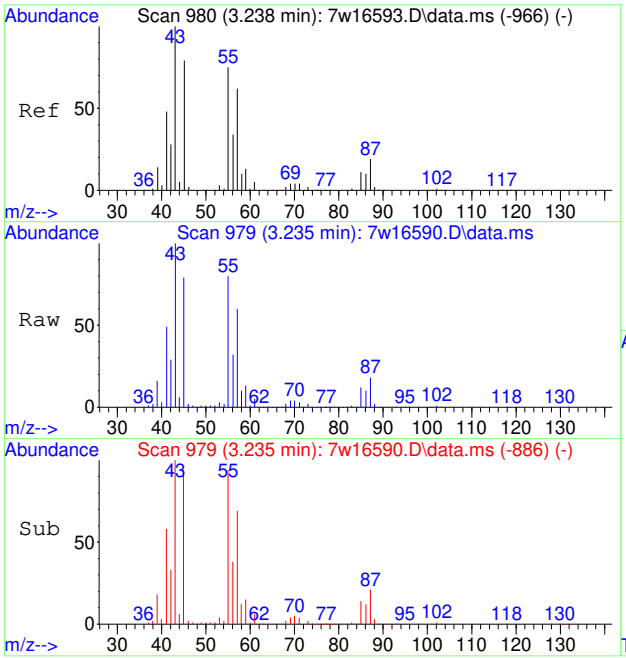


#44
ETHYL ACETATE
Concen: 10.49 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 61 Resp: 50059

Ion	Ratio	Lower	Upper
61	100		
43	1364.9	1127.5	2093.9
88	39.4	36.2	67.2

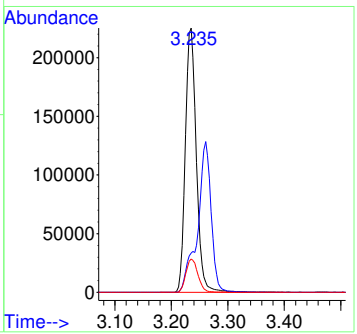


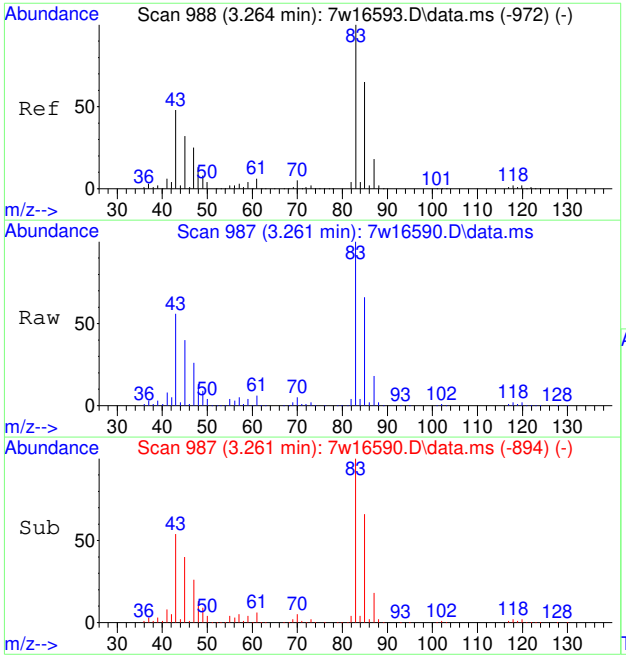


#45
METHYL ACRYLATE
Concen: 10.50 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 305217

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.8	9.2	17.0

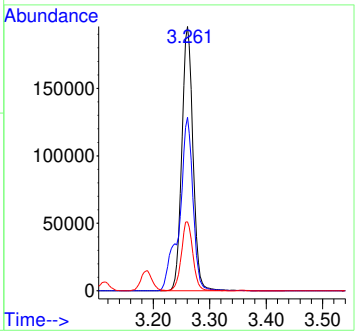


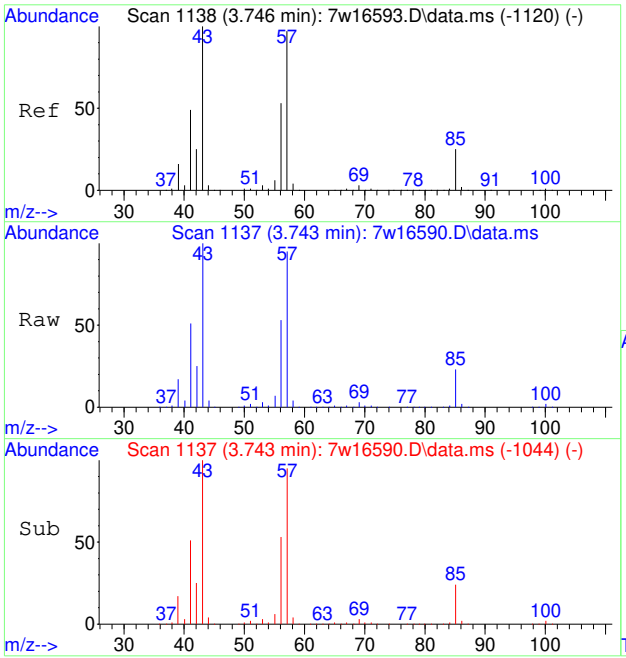


#46
CHLOROFORM
Concen: 10.50 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 269897

Ion	Ratio	Lower	Upper
83	100		
85	80.0	54.6	101.4
47	27.2	17.9	33.3

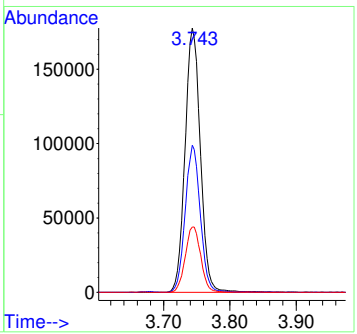


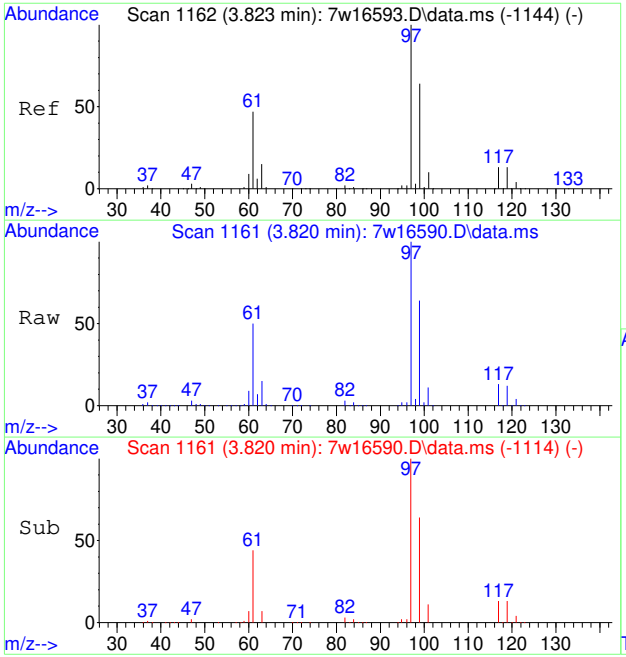


#47
2,4-DIMETHYLPENTANE
Concen: 10.70 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 286654

Ion	Ratio	Lower	Upper
57	100		
56	54.8	39.2	72.8
85	25.0	24.1	44.7

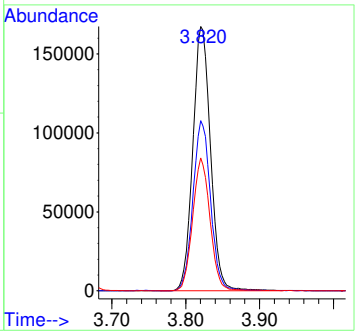


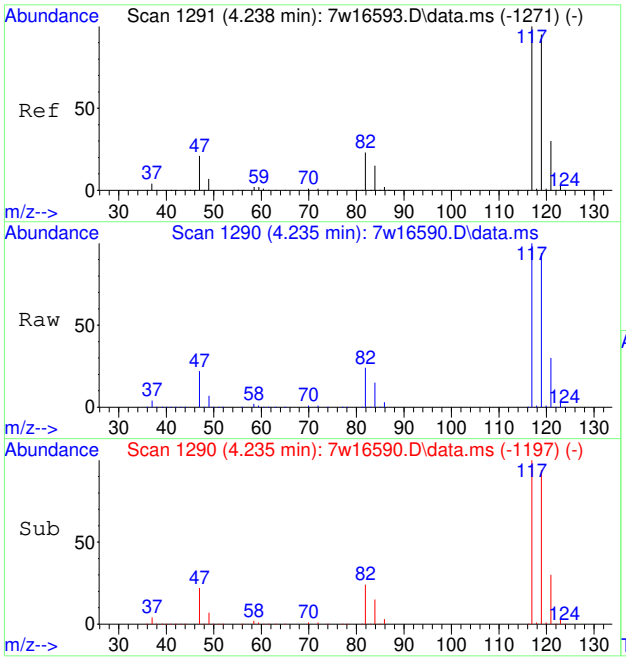


#48
1,1,1-TRICHLOROETHANE
Concen: 10.38 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 97 Resp: 278334

Ion	Ratio	Lower	Upper
97	100		
99	64.3	44.9	83.5
61	49.6	28.6	53.0

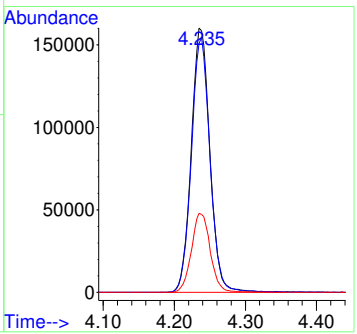


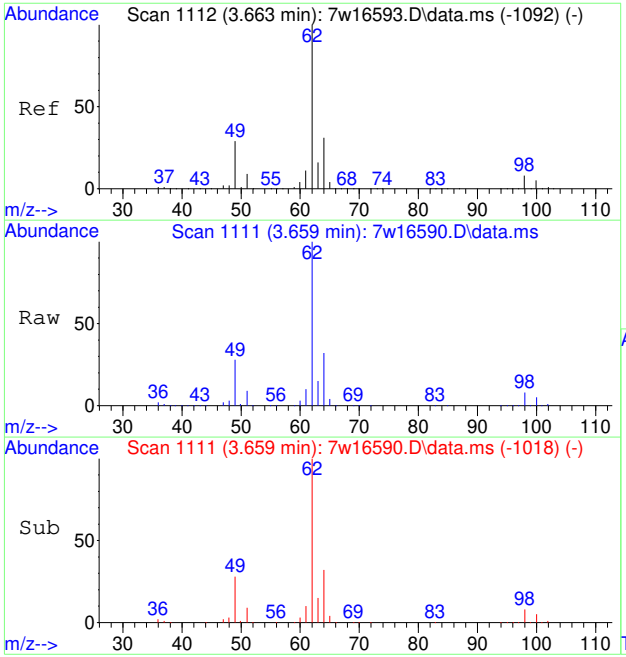


#49
CARBON TETRACHLORIDE
Concen: 10.20 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 291854

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

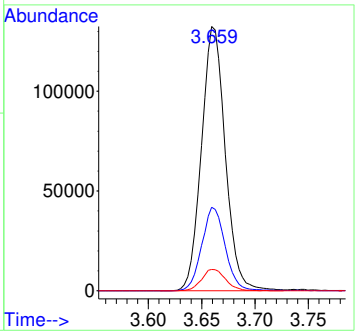


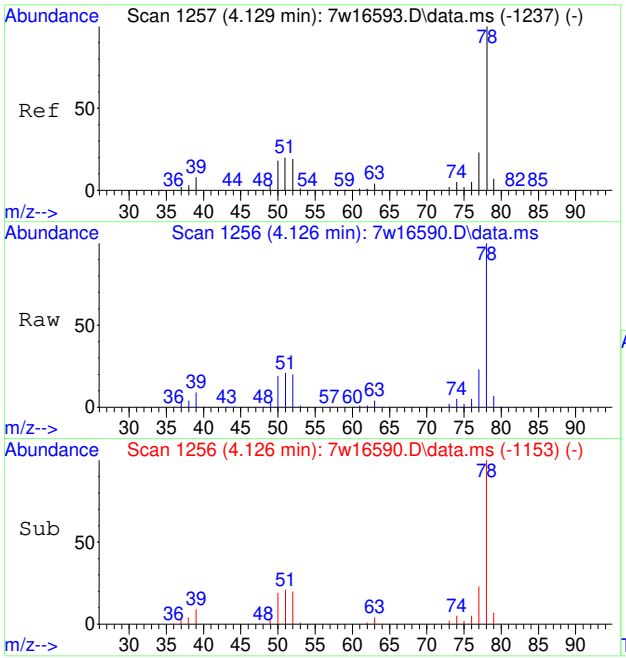


#50
1,2-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 205888

Ion	Ratio	Lower	Upper
62	100		
64	31.2	22.5	41.7
98	8.3	6.8	12.6

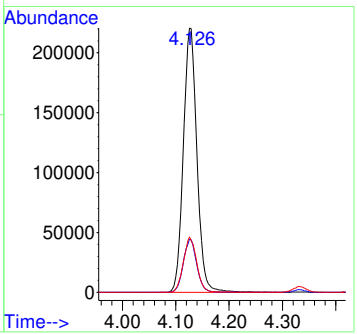


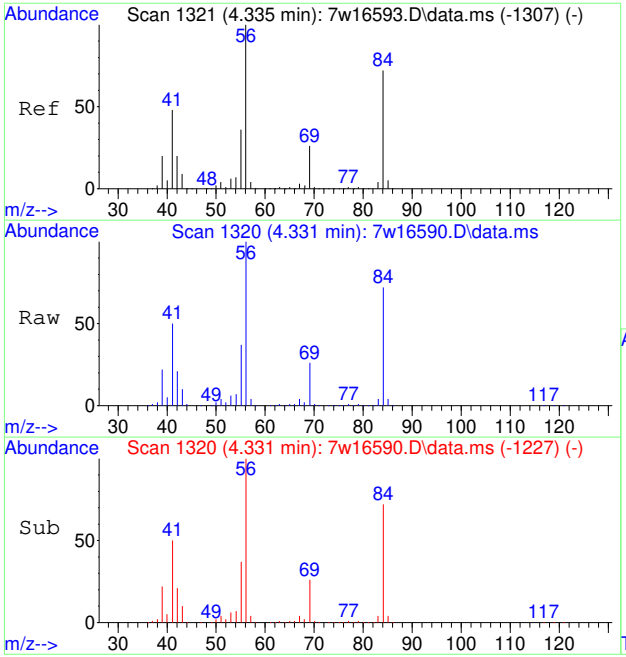


#51
BENZENE
Concen: 10.41 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 78 Resp: 391334

Ion	Ratio	Lower	Upper
78	100		
52	19.9	0.0	44.6
51	20.6	0.0	47.3

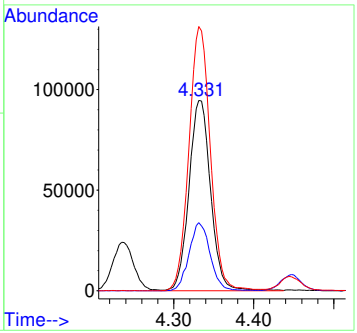


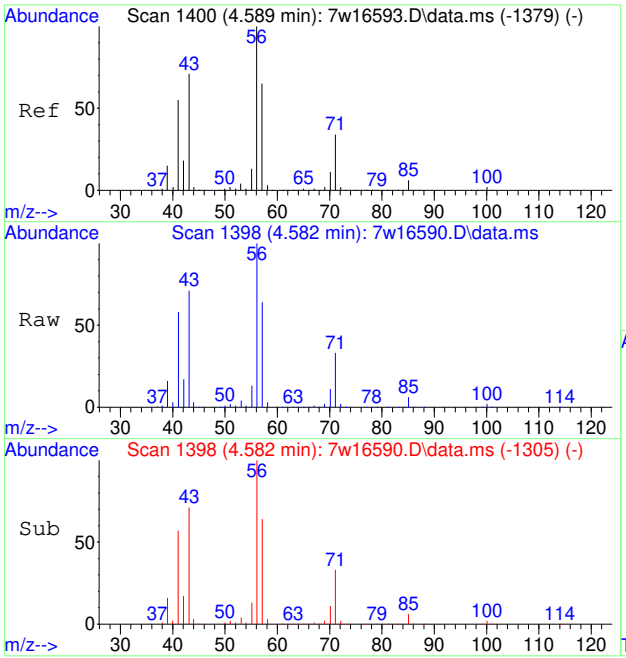


#53
CYCLOHEXANE
Concen: 10.40 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 177560

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	137.7	70.2	130.4#

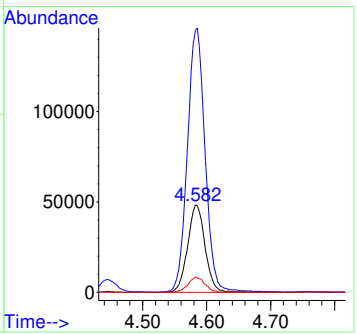


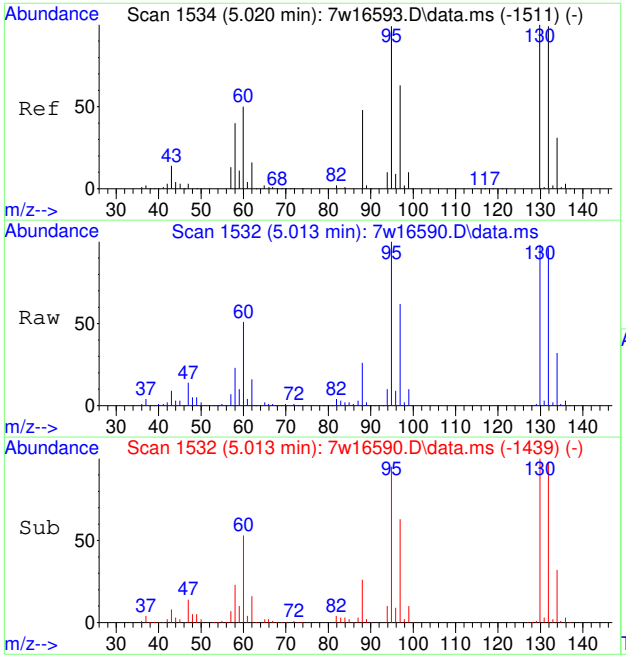


#54
2,3-DIMETHYLPENTANE
Concen: 10.60 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 71 Resp: 92078

Ion	Ratio	Lower	Upper
71	100		
56	304.6	171.4	318.4
85	17.4	12.6	23.4

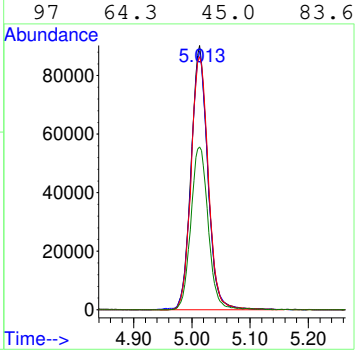


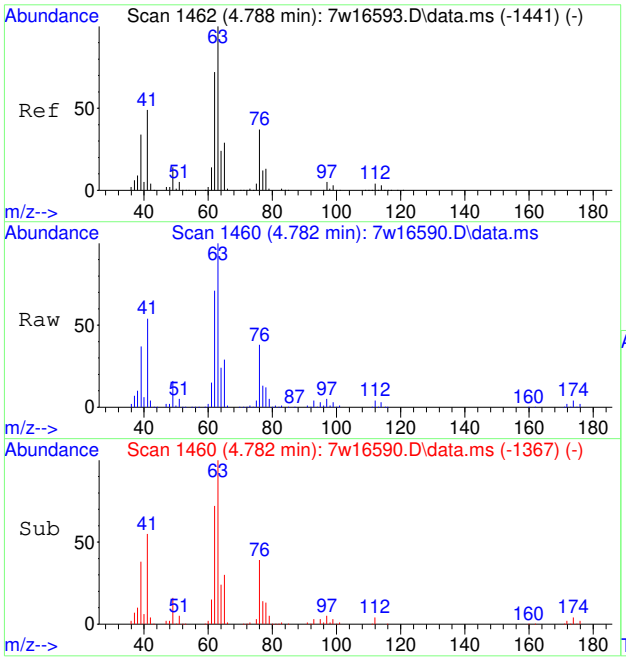


#55
TRICHLOROETHENE
Concen: 9.90 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 95 Resp: 180016

Ion	Ratio	Lower	Upper
95	100		
130	99.2	85.9	159.5
132	99.1	79.4	147.4
97	64.3	45.0	83.6

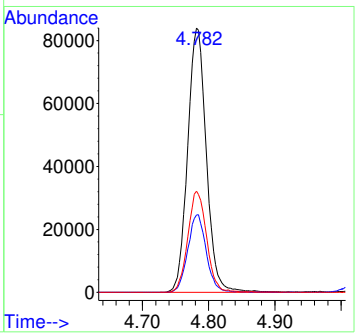


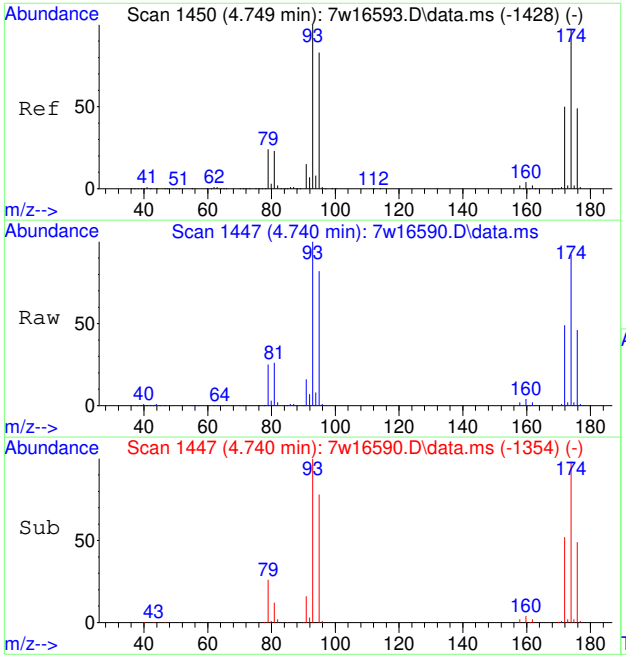


#56
1,2-DICHLOROPROPANE
Concen: 10.30 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 164997

Ion	Ratio	Lower	Upper
63	100		
65	29.3	22.6	42.0
76	38.7	31.8	59.0

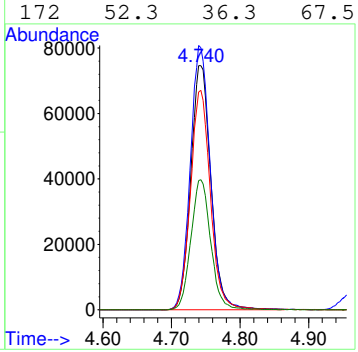


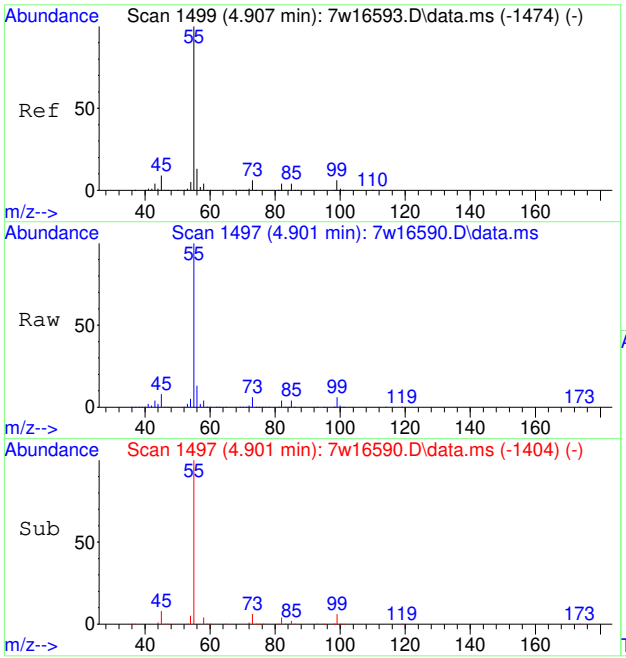


#57
DIBROMOMETHANE
Concen: 10.28 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:174 Resp: 152742

Ion	Ratio	Lower	Upper
174	100		
93	107.6	67.3	125.1
95	89.1	56.8	105.6
172	52.3	36.3	67.5

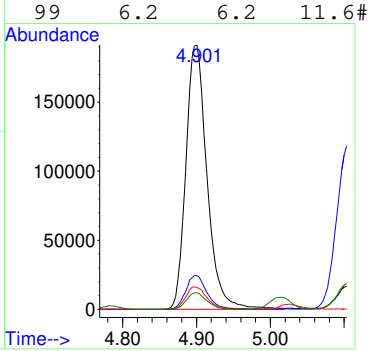


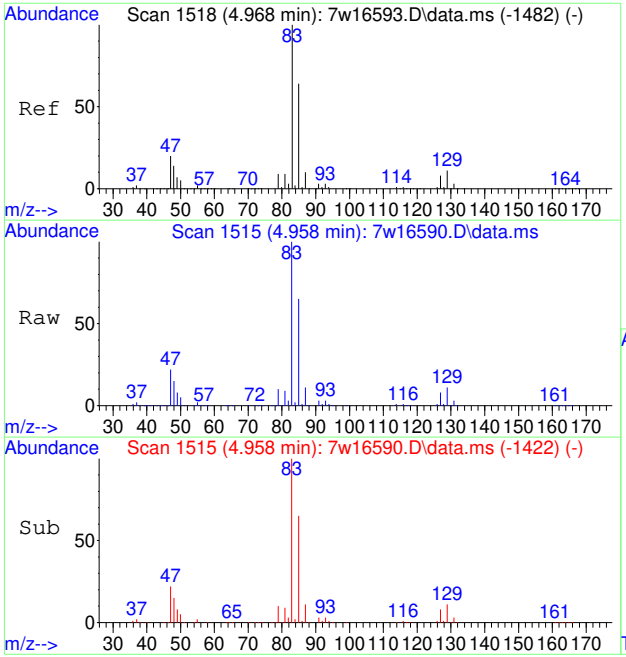


#58
ETHYL ACRYLATE
Concen: 10.50 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 381569

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.7	6.6	12.2
99	6.2	6.2	11.6#

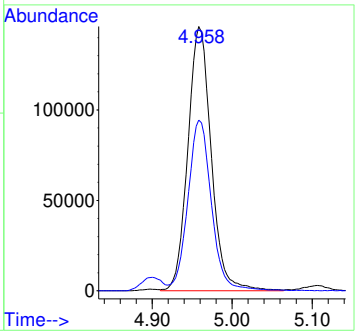


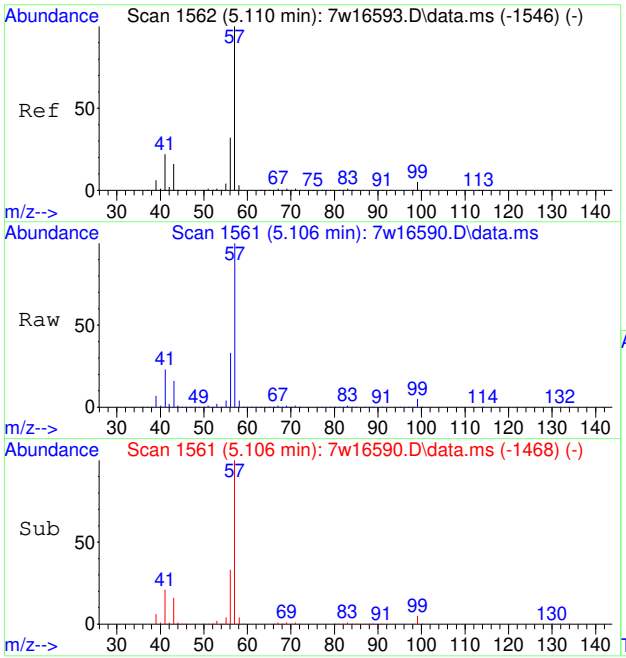


#59
BROMODICHLOROMETHANE
Concen: 9.90 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 297999

Ion	Ratio	Lower	Upper
83	100		
85	65.2	44.9	83.5

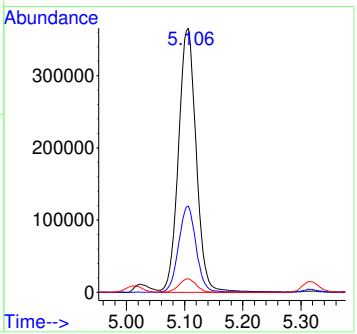


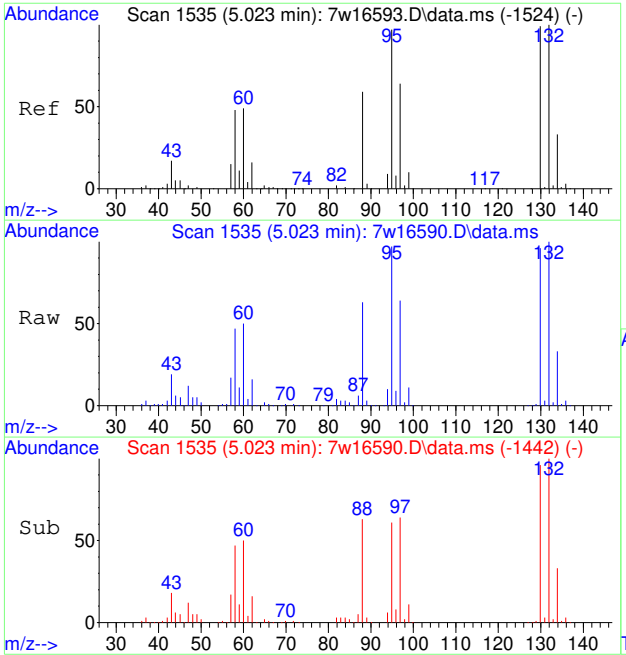


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.20 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 772831

Ion	Ratio	Lower	Upper
57	100		
56	32.3	24.4	45.2
99	5.2	5.2	9.6#

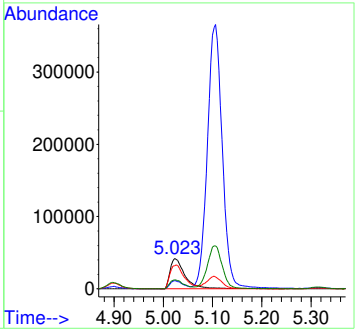


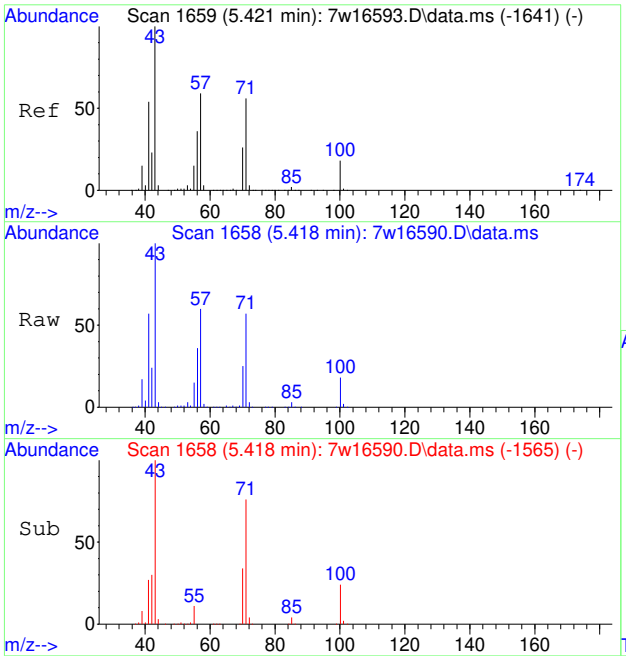


#61
1,4-DIOXANE
Concen: 9.94 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 88 Resp: 89212

Ion	Ratio	Lower	Upper
88	100		
57	23.8	13.1	24.3
58	74.9	39.1	72.5#
43	26.4	18.3	33.9

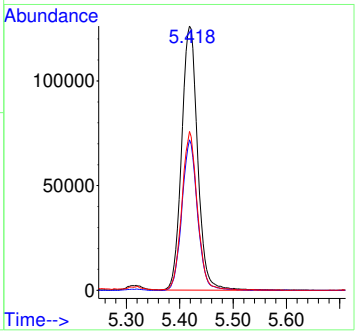


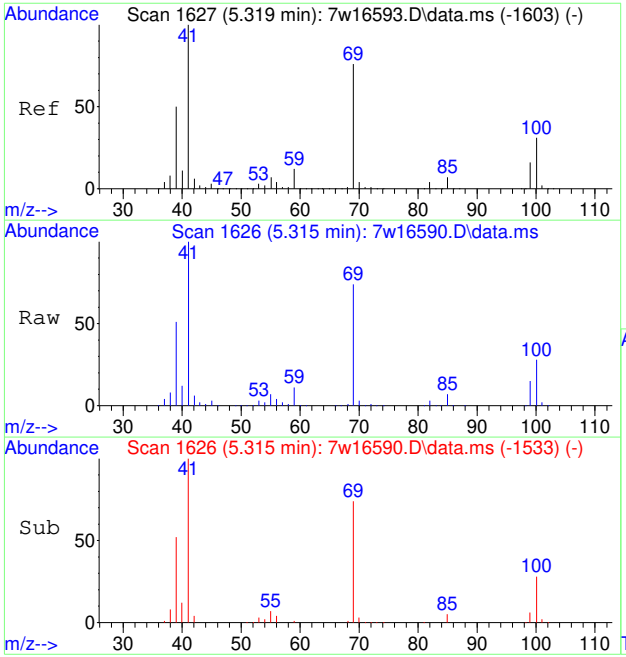


#62
HEPTANE
Concen: 10.40 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 263524

Ion	Ratio	Lower	Upper
43	100		
71	55.5	45.0	83.6
57	57.9	37.2	69.0

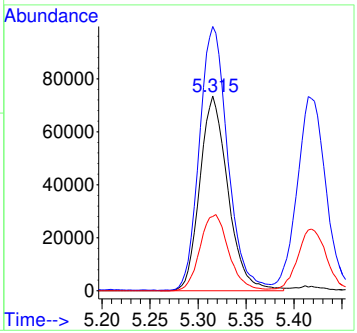


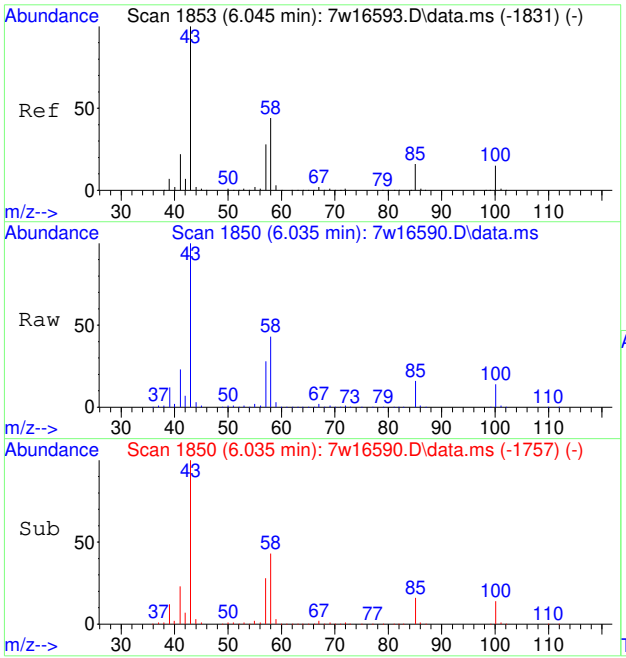


#63
METHYL METHACRYLATE
Concen: 10.30 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 149851

Ion	Ratio	Lower	Upper
69	100		
41	136.5	84.3	156.5
100	40.1	30.8	57.2

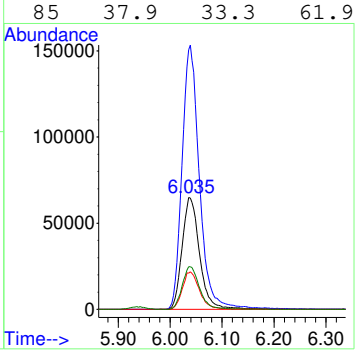


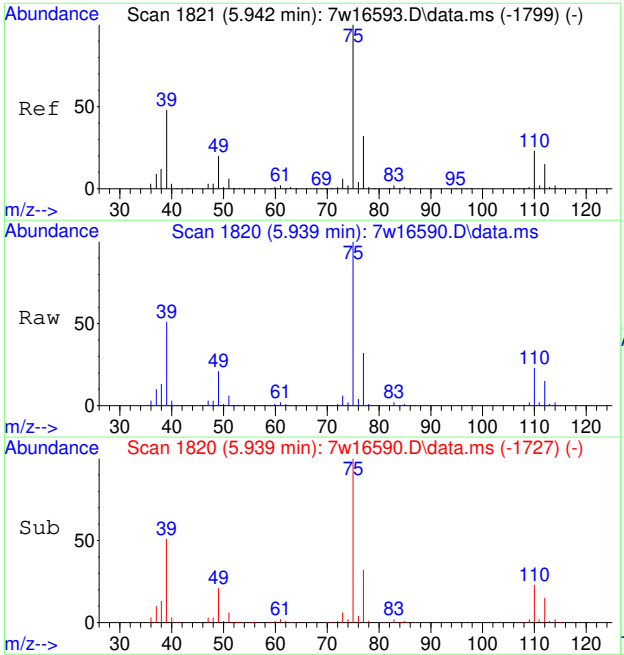


#64
METHYL ISOBUTYL KETONE
Concen: 10.20 PPBV
RT: 6.035 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 152356

Ion	Ratio	Lower	Upper
58	100		
43	234.0	193.8	360.0
100	33.2	32.8	60.8
85	37.9	33.3	61.9

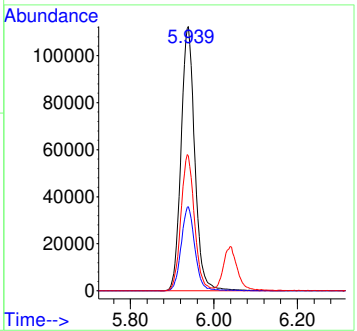


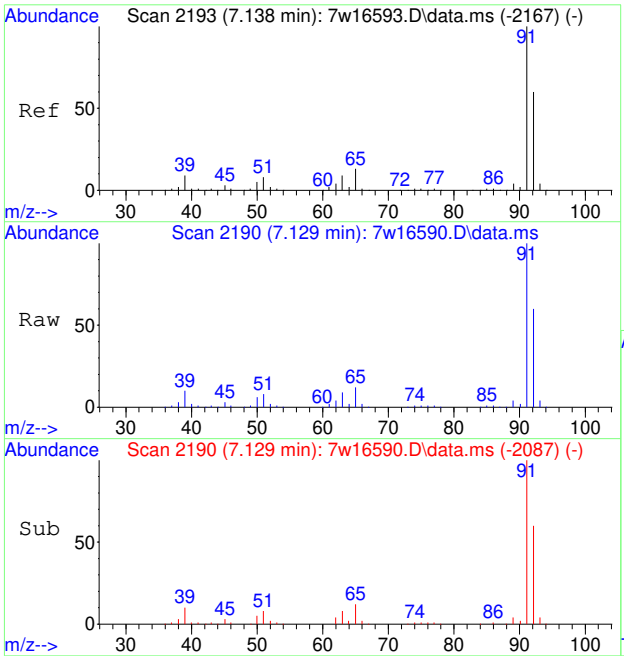


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.12 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 257147

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.0	38.5	71.5

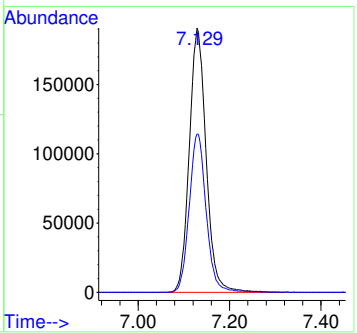


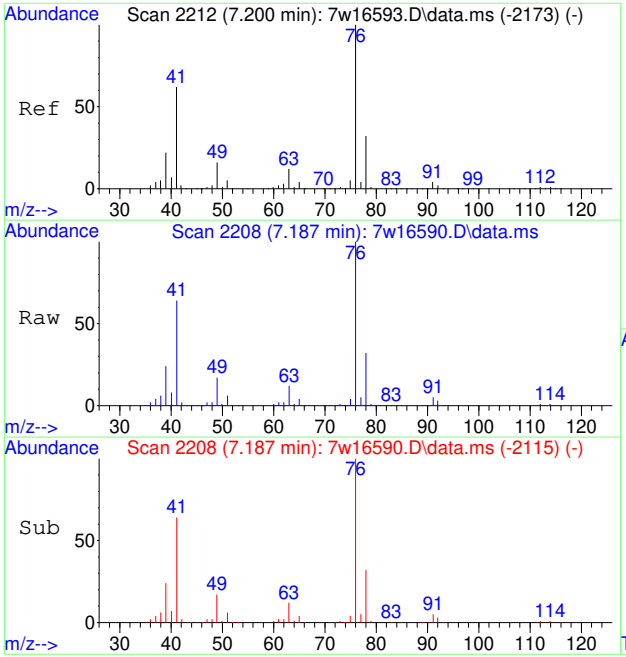


#66
TOLUENE
Concen: 10.60 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 488762

Ion	Ratio	Lower	Upper
91	100		
92	60.3	28.1	88.1

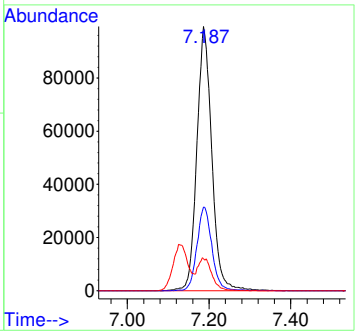


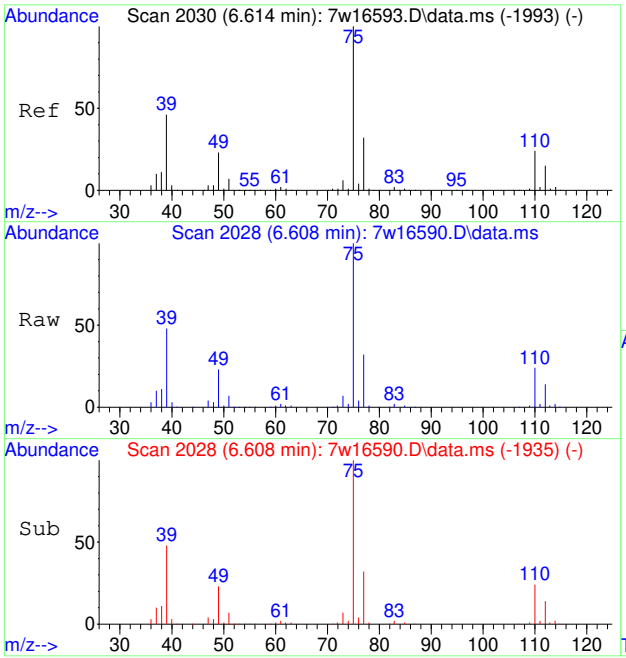


#67
1,3-DICHLOROPROPANE
Concen: 10.60 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 252760

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	11.9	8.0	14.8

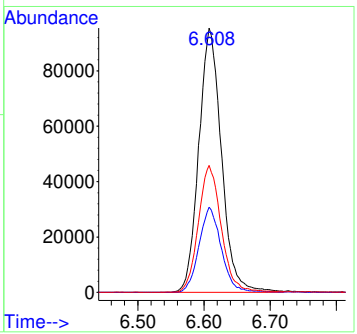


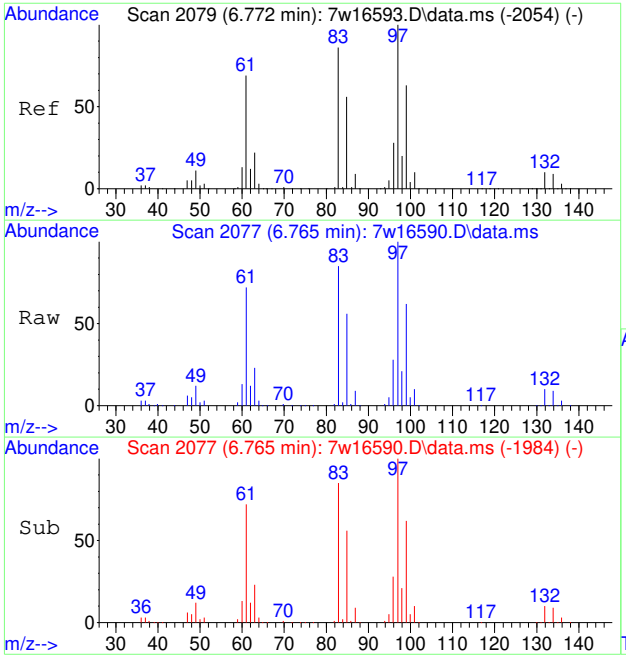


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 9.56 PPBV
RT: 6.608 min Scan# 2028
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 227014

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.5	41.7
39	48.5	37.2	69.0

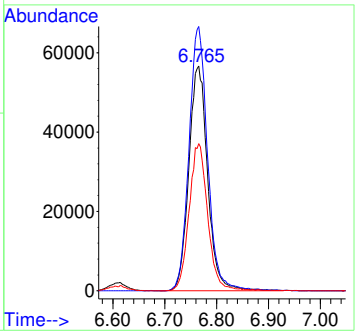


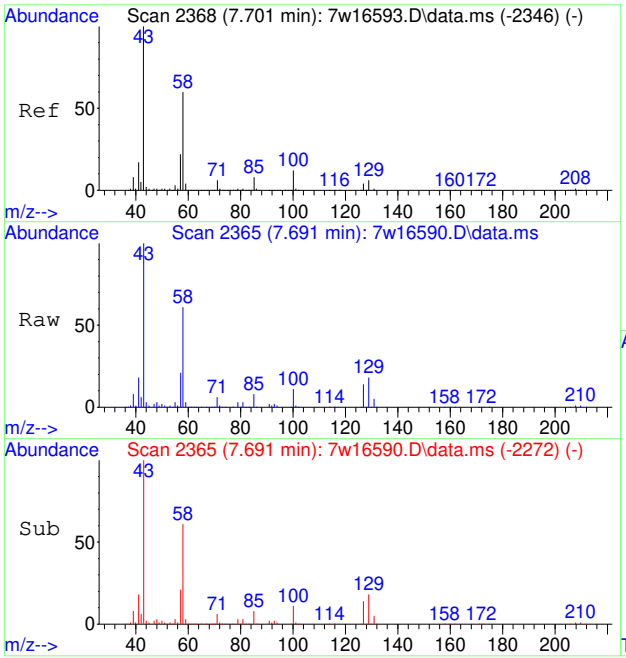


#69
1,1,2-TRICHLOROETHANE
Concen: 10.50 PPBV
RT: 6.765 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 143412

Ion	Ratio	Lower	Upper
83	100		
97	116.0	86.7	160.9
85	64.4	45.5	84.5

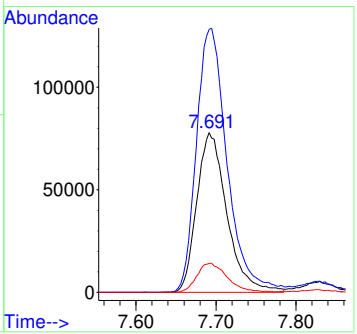


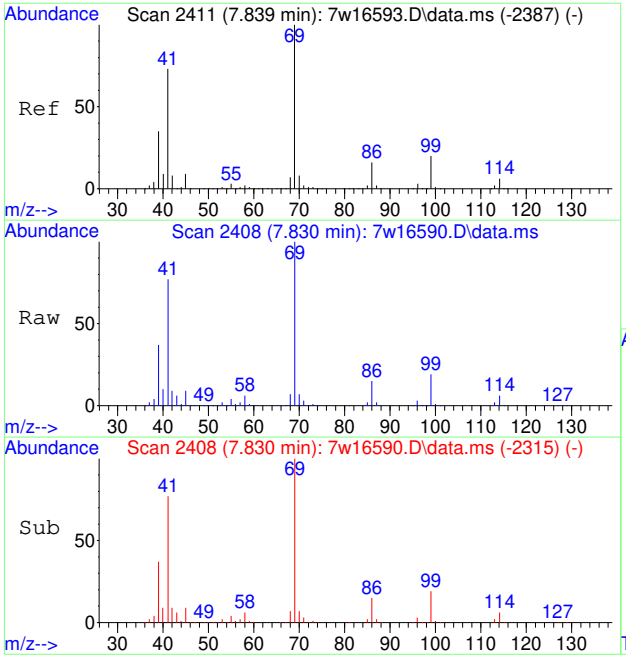


#70
2-HEXANONE
Concen: 10.38 PPBV
RT: 7.691 min Scan# 2365
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 203944

Ion	Ratio	Lower	Upper
58	100		
43	169.4	141.7	263.3
100	18.6	18.9	35.1#

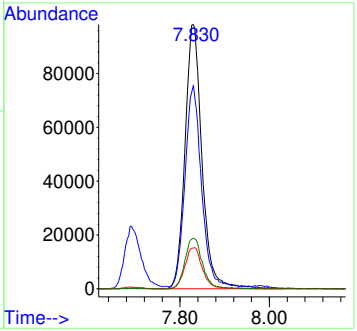


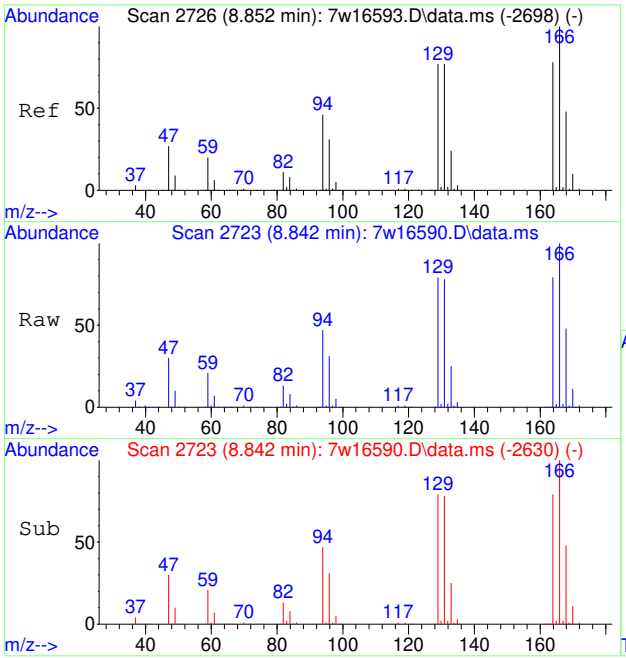


#71
ETHYL METHACRYLATE
Concen: 10.39 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 260130

Ion	Ratio	Lower	Upper
69	100		
41	76.6	49.3	91.6
86	16.1	11.6	21.6
99	19.7	13.4	24.8

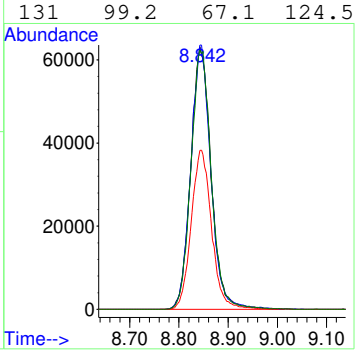


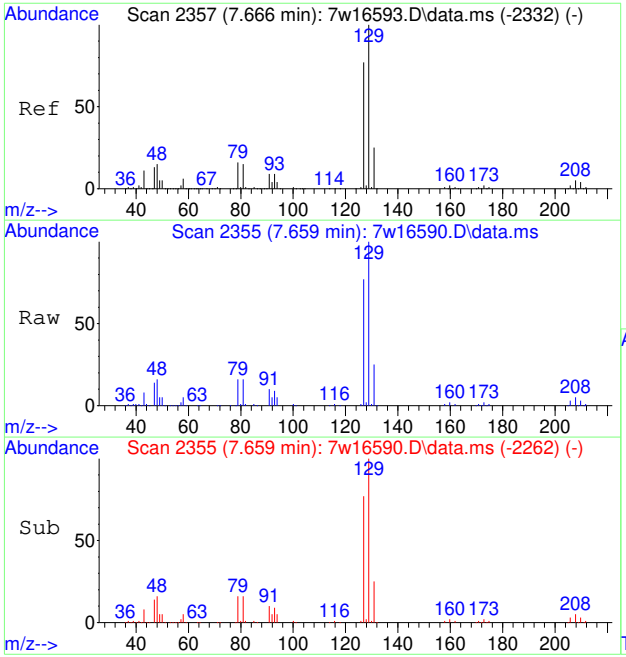


#72
TETRACHLOROETHENE
Concen: 10.70 PPBV
RT: 8.842 min Scan# 2723
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:164 Resp: 181618

Ion	Ratio	Lower	Upper
164	100		
129	99.4	69.7	129.5
168	60.7	43.4	80.6
131	99.2	67.1	124.5

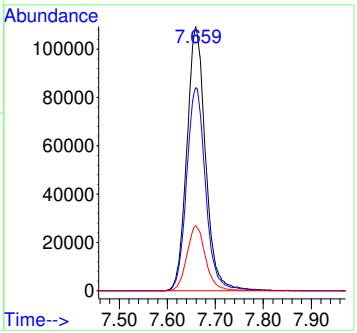


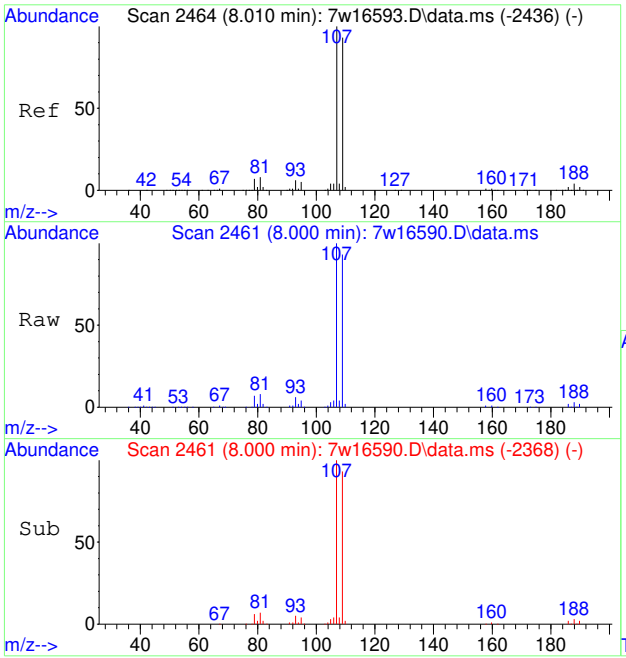


#73
DIBROMOCHLOROMETHANE
Concen: 10.40 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:129 Resp: 295382

Ion	Ratio	Lower	Upper
129	100		
127	78.2	53.0	98.4
131	24.9	16.9	31.3

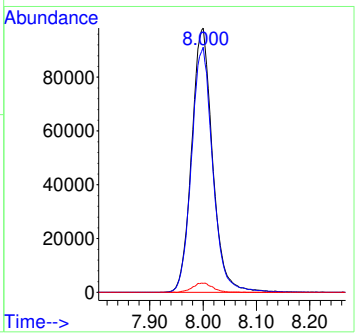


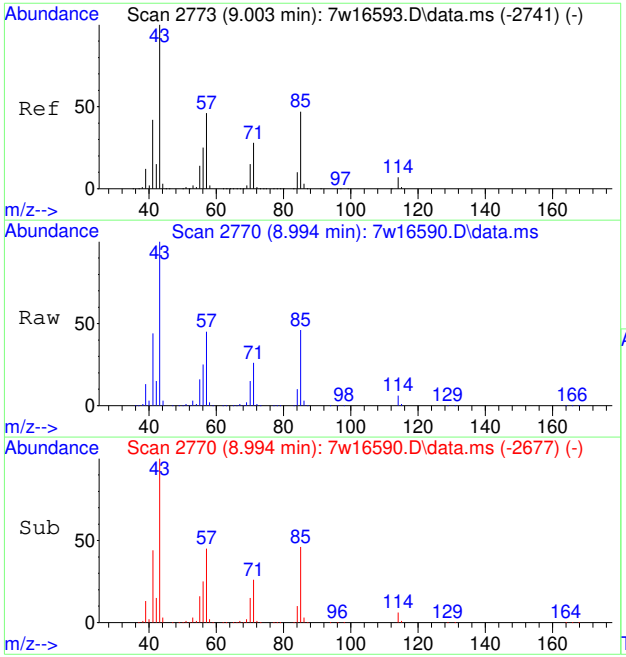


#74
1,2-DIBROMOETHANE
Concen: 10.99 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:107 Resp: 267727

Ion	Ratio	Lower	Upper
107	100		
109	94.5	65.7	122.1
188	3.5	2.4	4.4

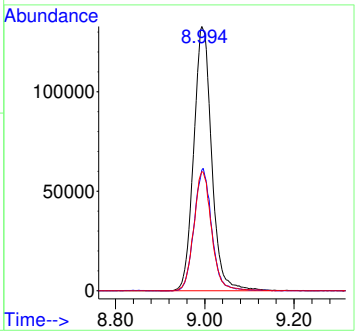


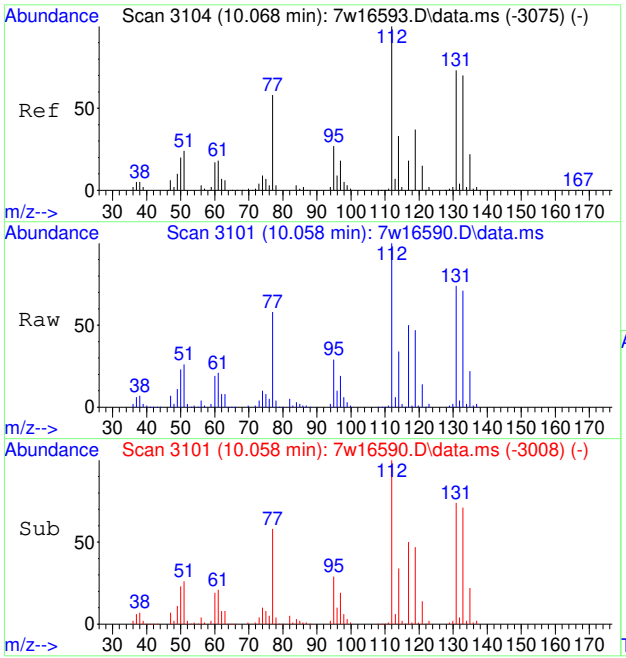


#75
OCTANE
Concen: 10.70 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 371213

Ion	Ratio	Lower	Upper
43	100		
85	45.4	36.5	67.9
57	44.8	27.6	51.2

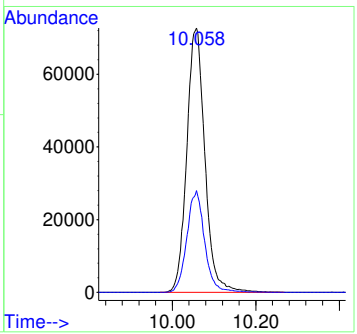


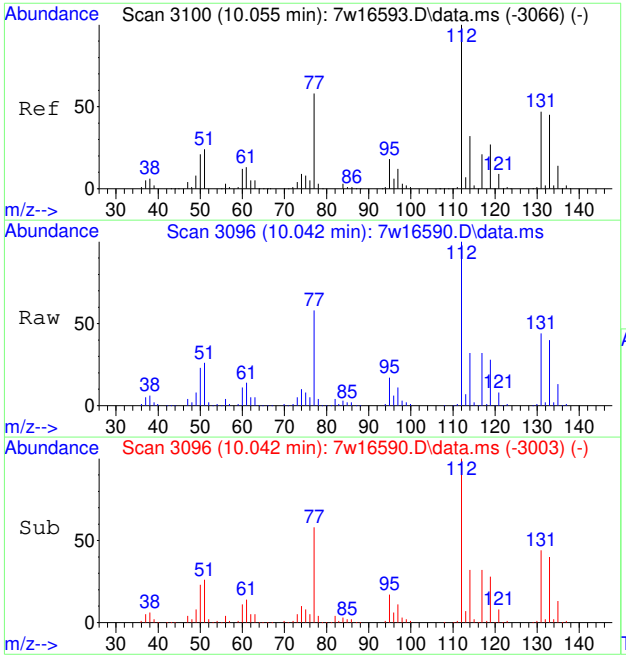


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.90 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:131 Resp: 219545

Ion	Ratio	Lower	Upper
131	100		
95	37.8	23.7	43.9

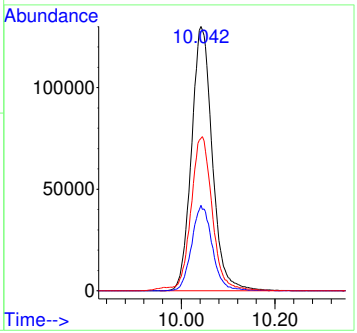


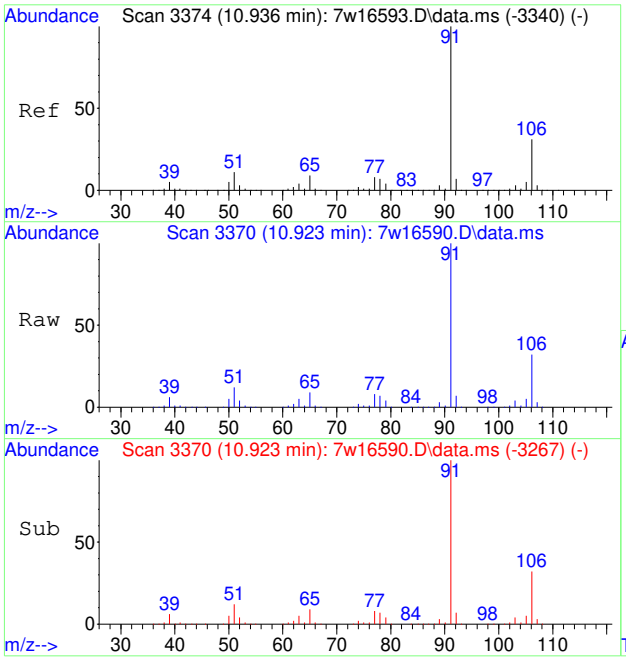


#78
CHLOROBENZENE
Concen: 10.90 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:112 Resp: 401465

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.9	42.5
77	60.1	34.4	63.8

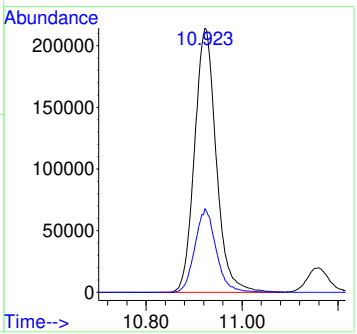


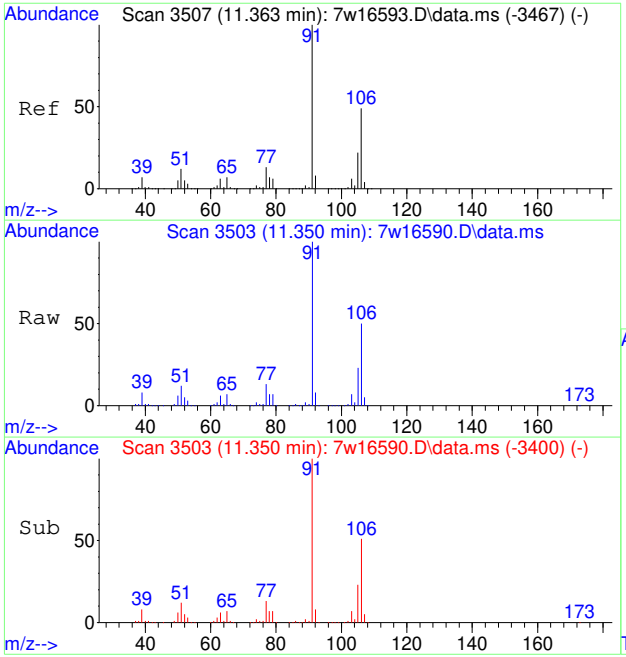


#79
ETHYLBENZENE
Concen: 11.00 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 667794

Ion	Ratio	Lower	Upper
91	100		
106	31.1	2.8	62.8

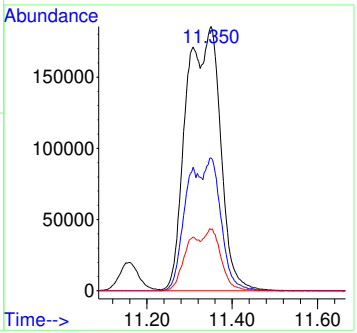


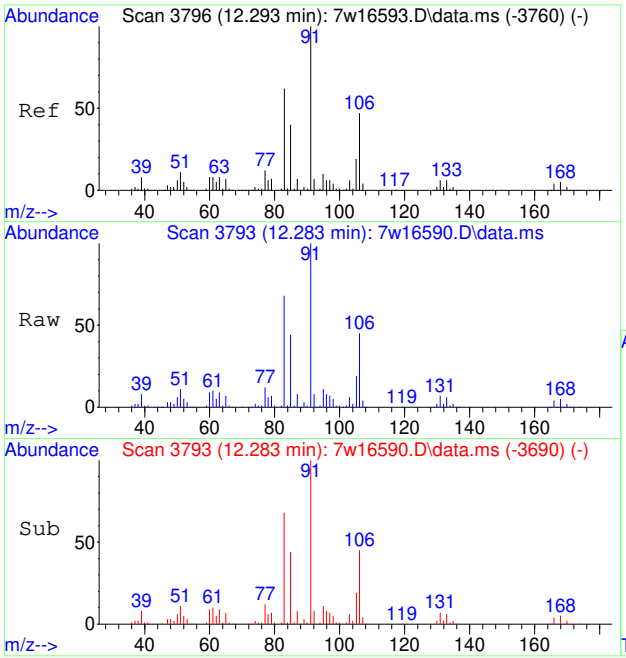


#80
M,P-XYLENE
Concen: 21.20 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 1033120

Ion	Ratio	Lower	Upper
91	100		
106	26.1	0.0	58.7
105	12.1	0.0	43.2

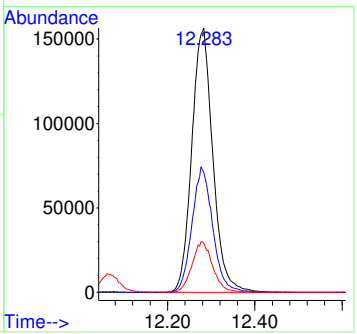


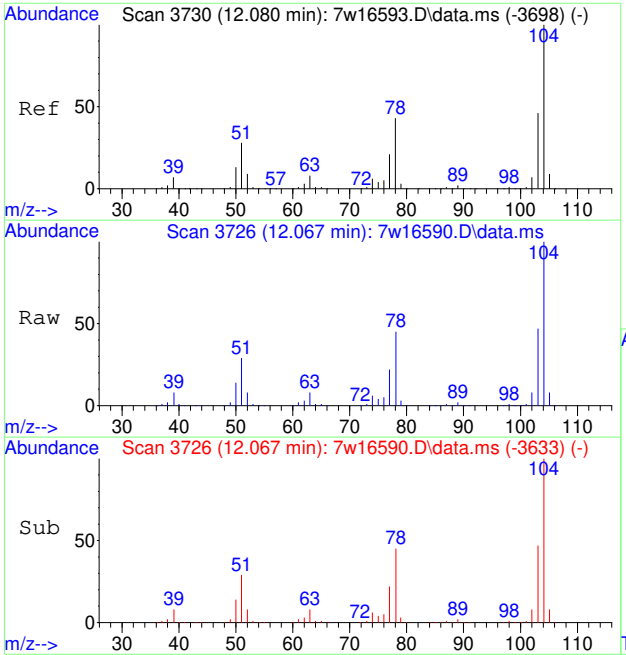


#81
O-XYLENE
Concen: 11.00 PPBV
RT: 12.283 min Scan# 3793
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 525465

Ion	Ratio	Lower	Upper
91	100		
106	45.4	34.1	63.3
105	18.6	14.6	27.2

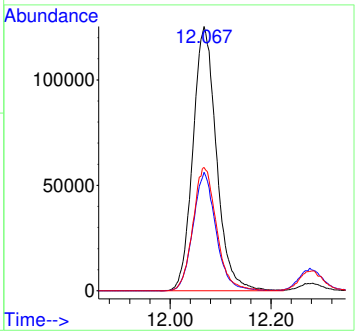


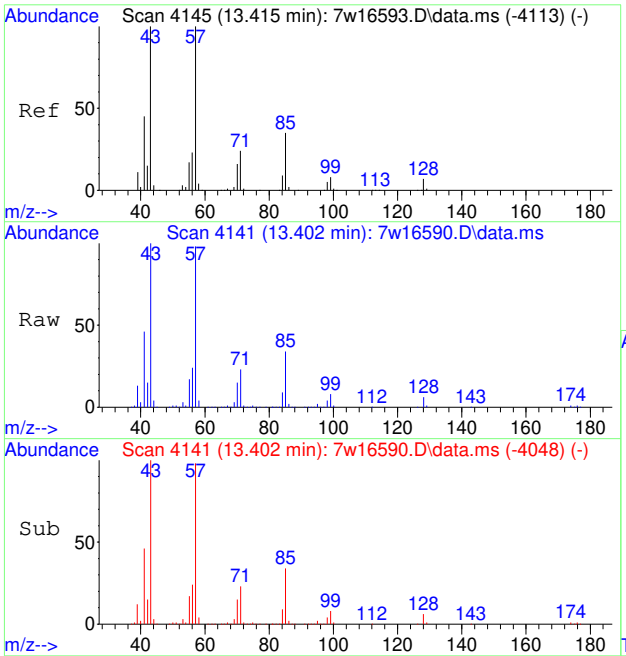


#82
STYRENE
Concen: 10.90 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:104 Resp: 405889

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	46.9	33.2	61.7

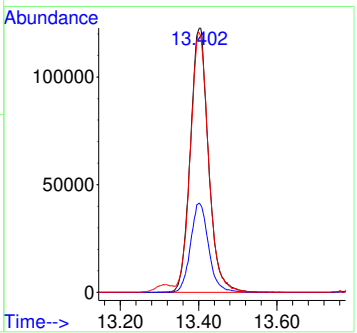


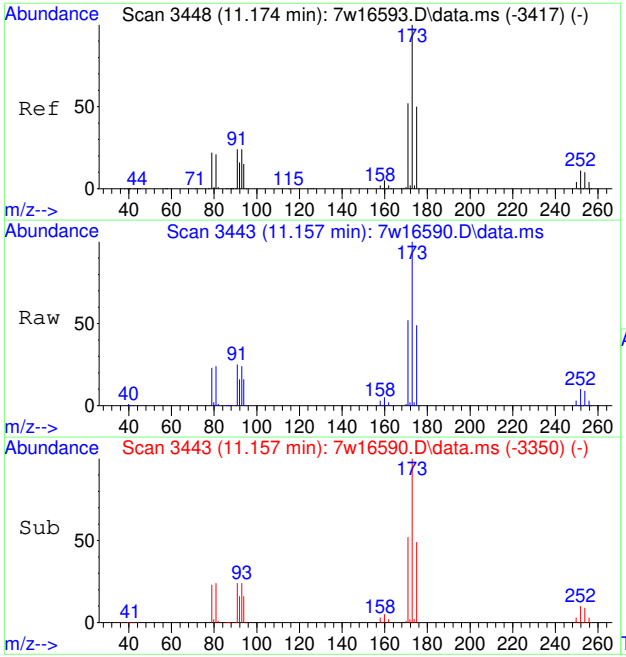


#83
NONANE
Concen: 10.80 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 395697

Ion	Ratio	Lower	Upper
43	100		
85	33.4	27.6	51.2
57	98.9	56.4	104.7

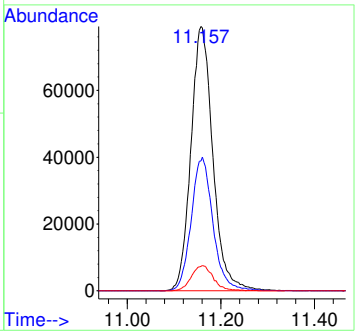


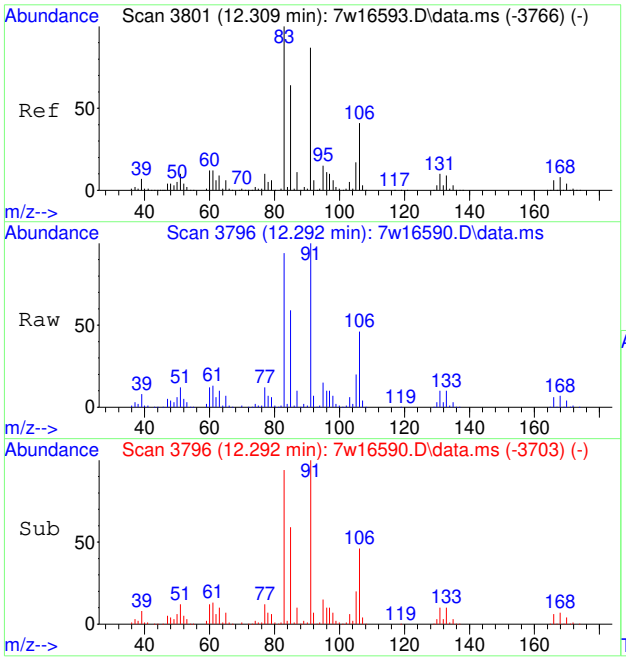


#84
BROMOFORM
Concen: 10.60 PPBV
RT: 11.157 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:173 Resp: 257628

Ion	Ratio	Lower	Upper
173	100		
175	50.1	33.0	61.4
254	9.6	5.9	10.9

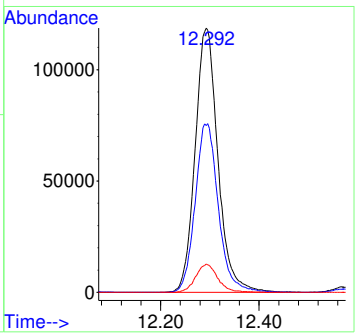


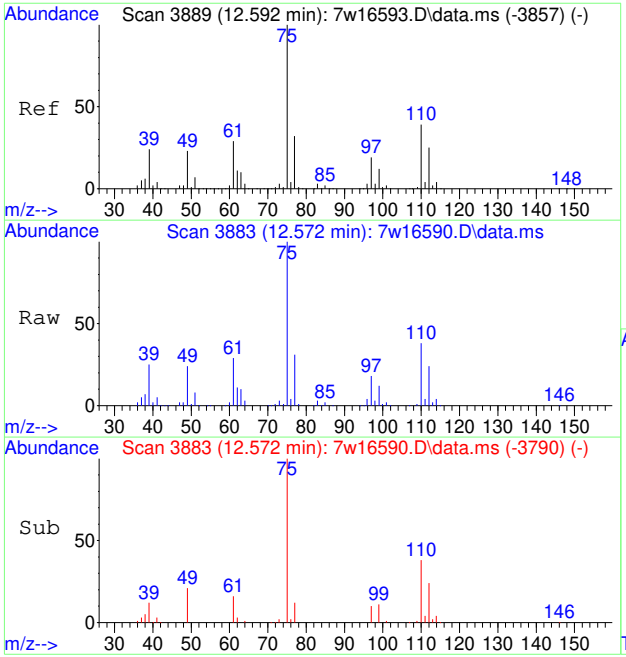


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 10.99 PPBV
RT: 12.292 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 382601

Ion	Ratio	Lower	Upper
83	100		
85	65.0	44.6	82.8
131	10.4	8.0	14.8

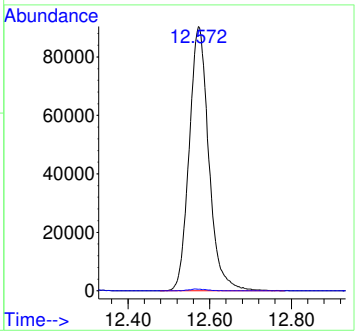


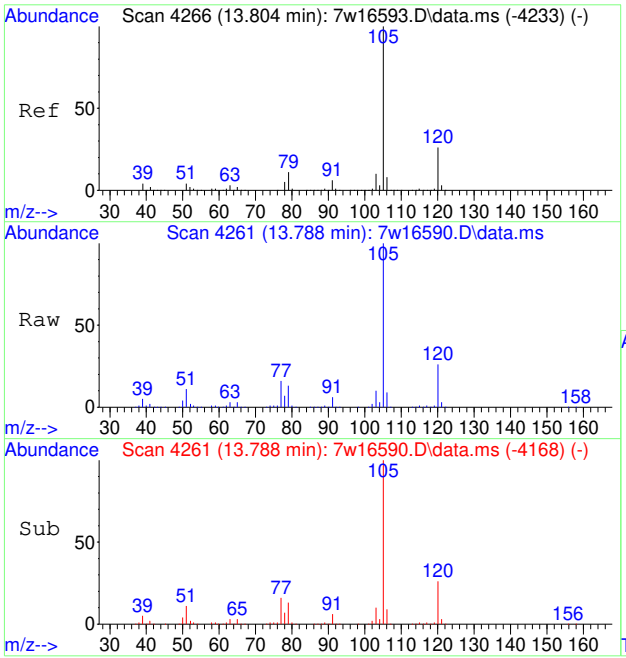


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.00 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 301186

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

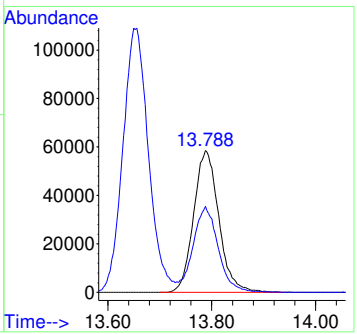


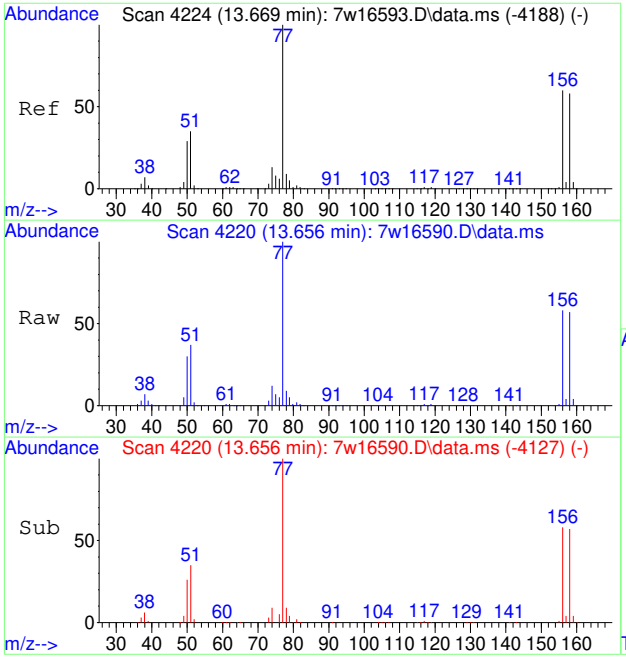


#88
ISOPROPYLBENZENE
Concen: 10.80 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 197546

Ion	Ratio	Lower	Upper
120	100		
77	60.7	36.0	67.0

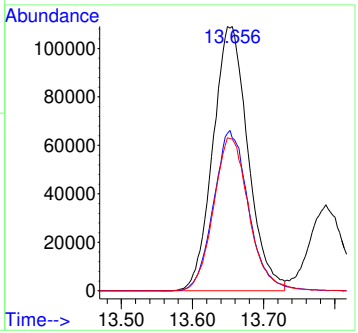


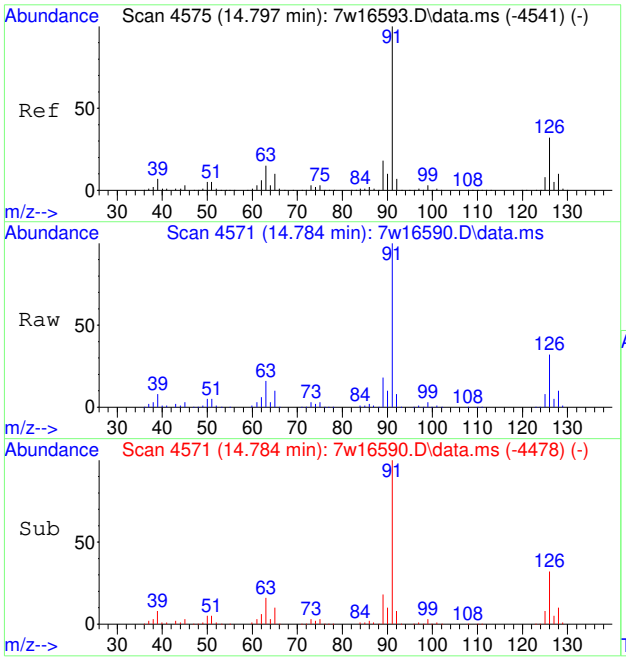


#89
BROMOBENZENE
Concen: 10.80 PPBV
RT: 13.656 min Scan# 4220
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 77 Resp: 373873

Ion	Ratio	Lower	Upper
77	100		
156	60.6	57.9	107.5
158	58.5	55.7	103.5

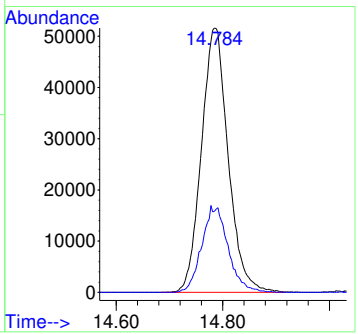


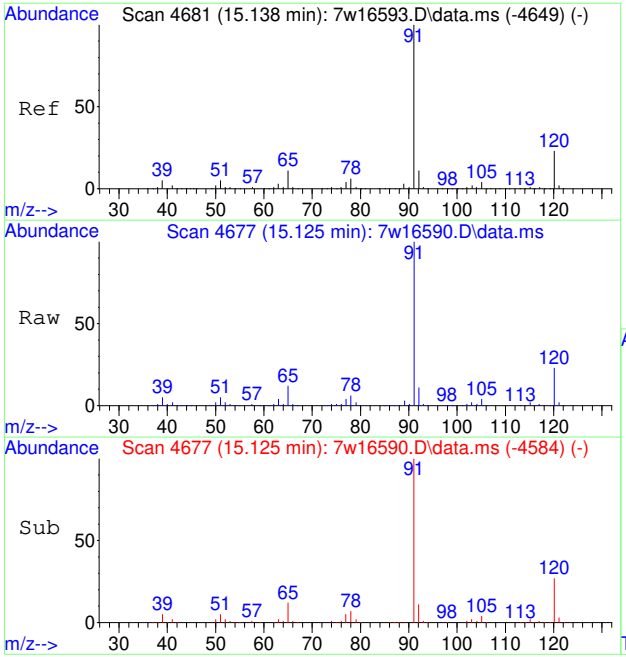


#90
2-CHLOROTOLUENE
Concen: 10.39 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:126 Resp: 179837

Ion	Ratio	Lower	Upper
126	100		
128	32.1	22.7	42.1

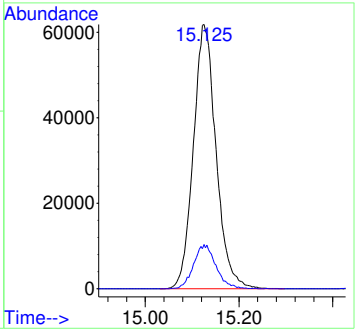


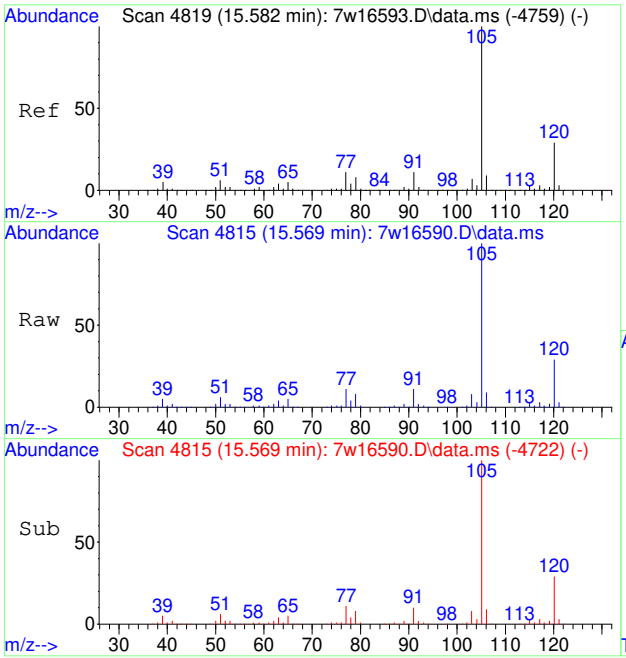


#91
N-PROPYLBENZENE
Concen: 10.50 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 208155

Ion	Ratio	Lower	Upper
120	100		
105	16.5	10.6	19.6

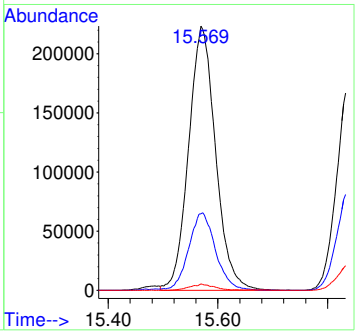


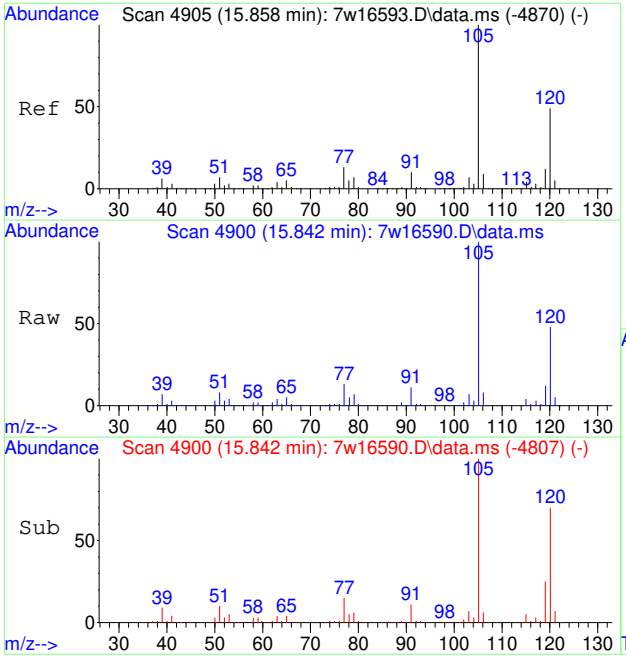


#92
4-ETHYLTOLUENE
Concen: 10.60 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 761814

Ion	Ratio	Lower	Upper
105	100		
120	29.6	21.8	40.4
119	2.3	1.7	3.1

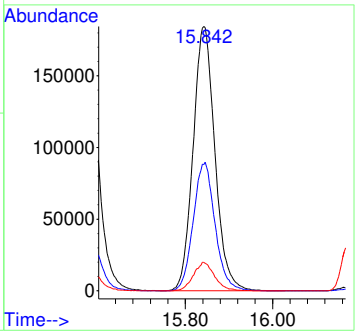


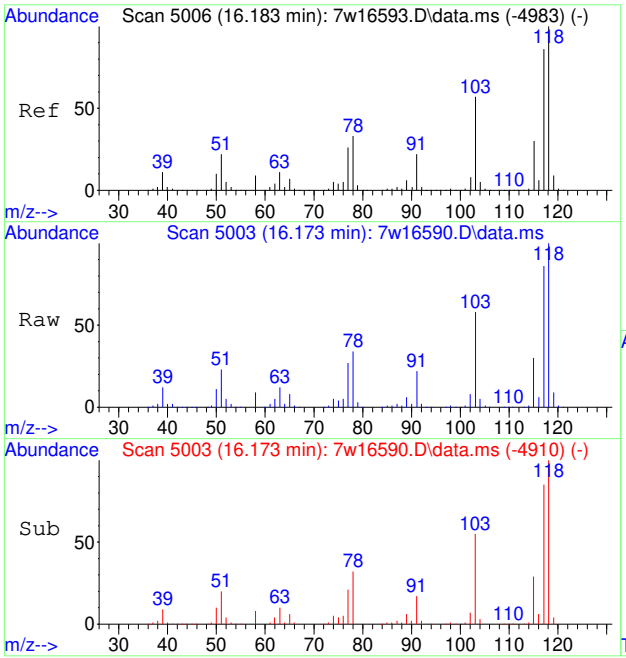


#93
1,3,5-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 641174

Ion	Ratio	Lower	Upper
105	100		
120	48.6	37.2	69.2
91	10.5	7.5	13.9

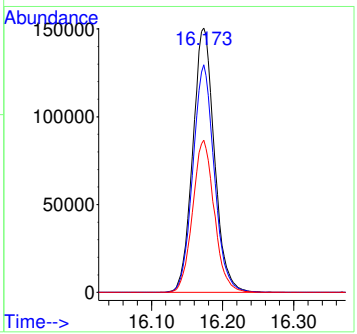


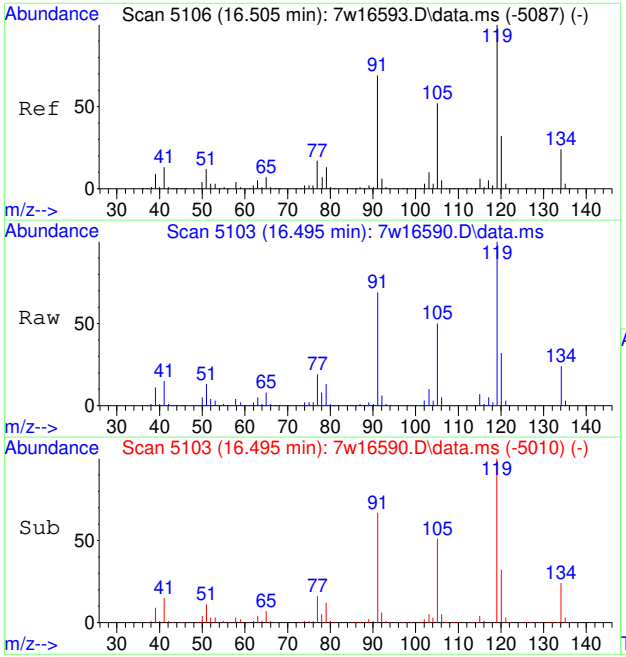


#94
ALPHA-METHYLSTYRENE
Concen: 10.40 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:118 Resp: 317898

Ion	Ratio	Lower	Upper
118	100		
117	85.2	59.9	111.3
103	57.6	36.2	67.2

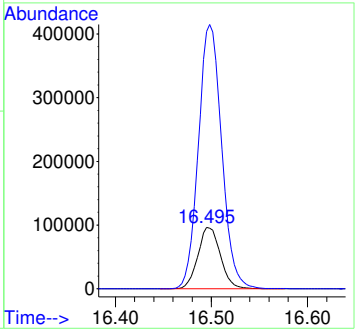


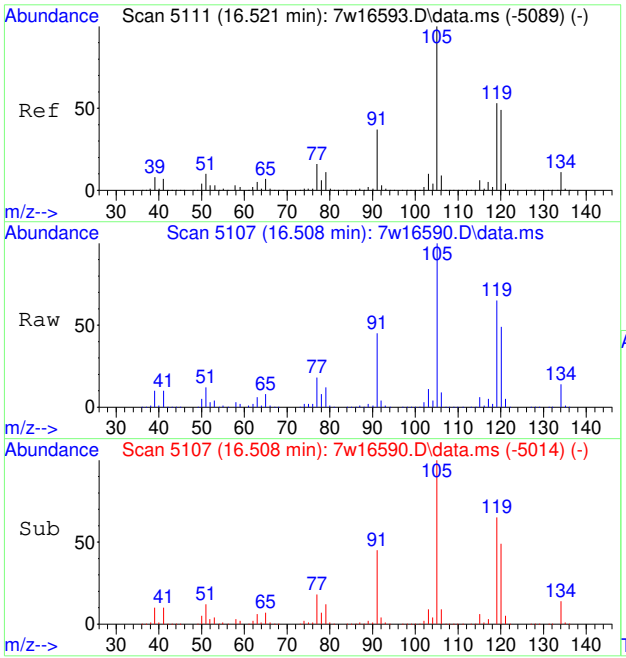


#95
TERT-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 157456

Ion	Ratio	Lower	Upper
134	100		
119	444.7	307.9	571.7

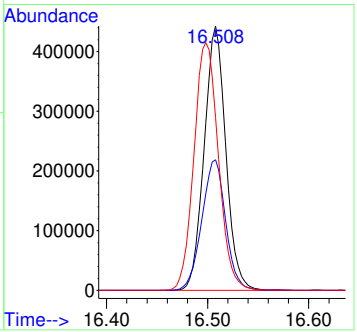


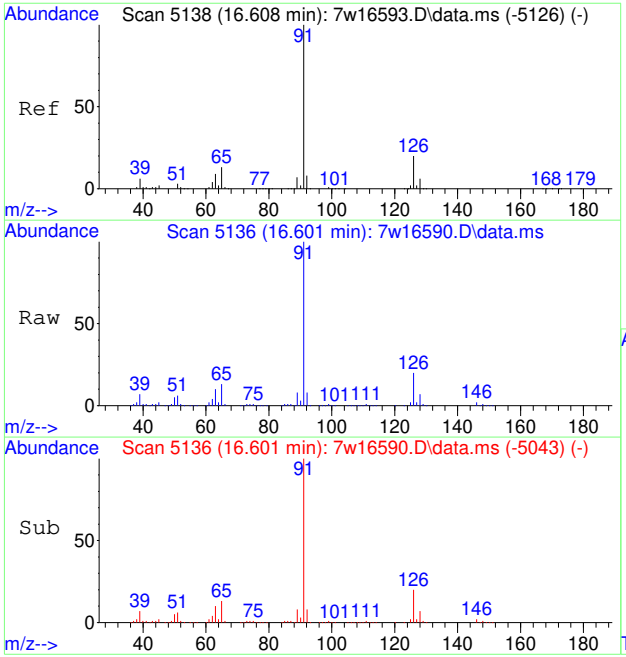


#96
1,2,4-TRIMETHYLBENZENE
Concen: 10.90 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 660136

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	106.1	78.0	144.8

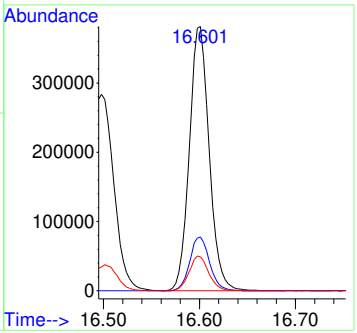


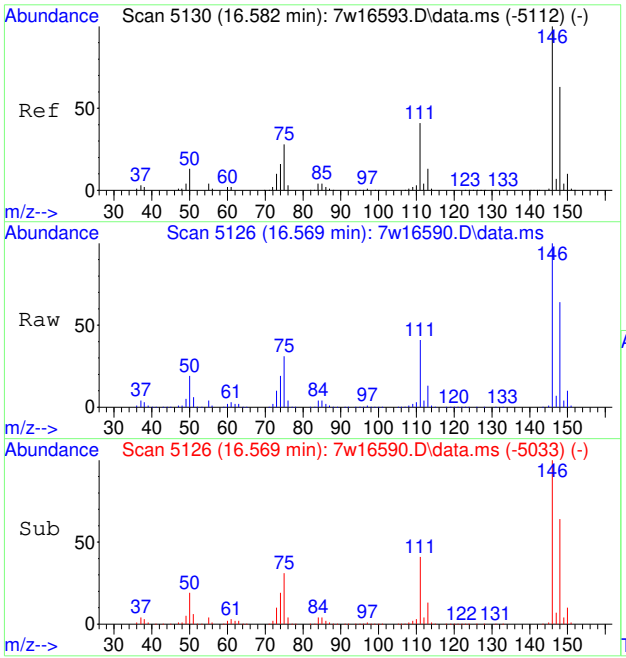


#97
BENZYL CHLORIDE
Concen: 10.50 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 547978

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	13.1	7.3	13.7

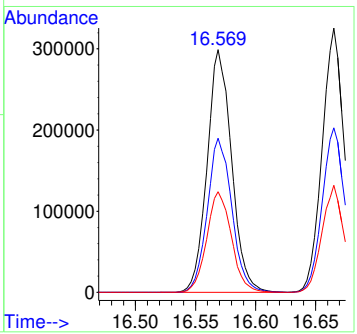


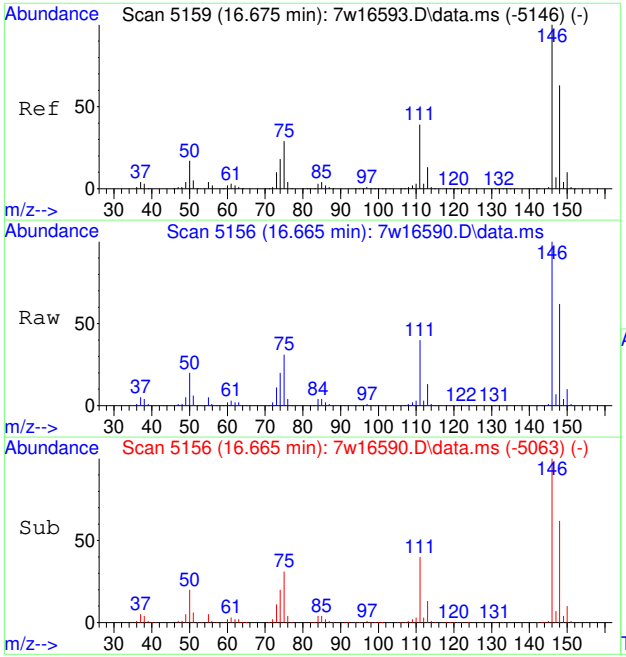


#98
M-DICHLOROBENZENE
Concen: 10.50 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 424825

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.8	25.4	47.2

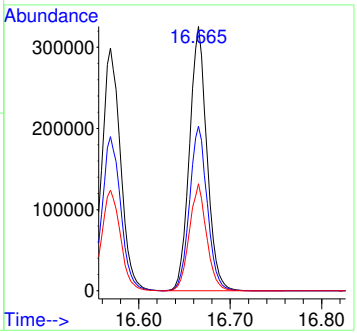


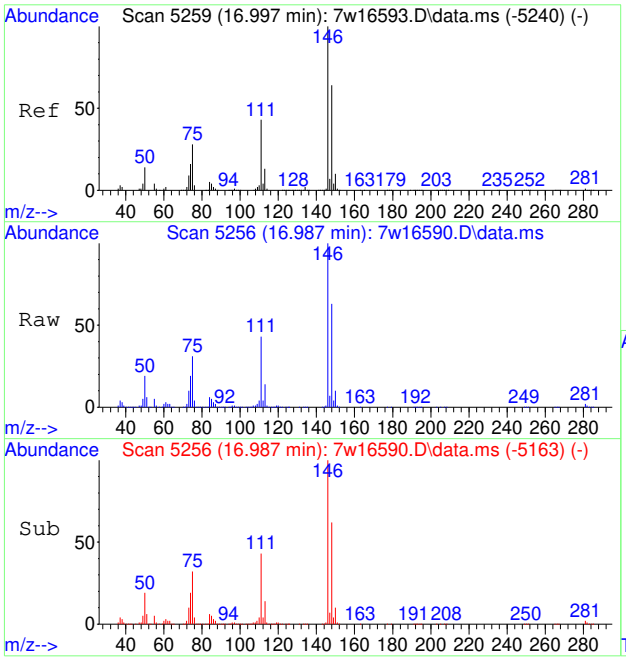


#99
P-DICHLOROBENZENE
Concen: 10.80 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 430477

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	40.0	24.8	46.1

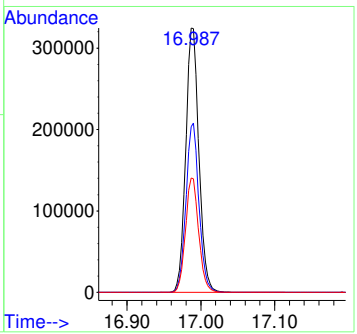


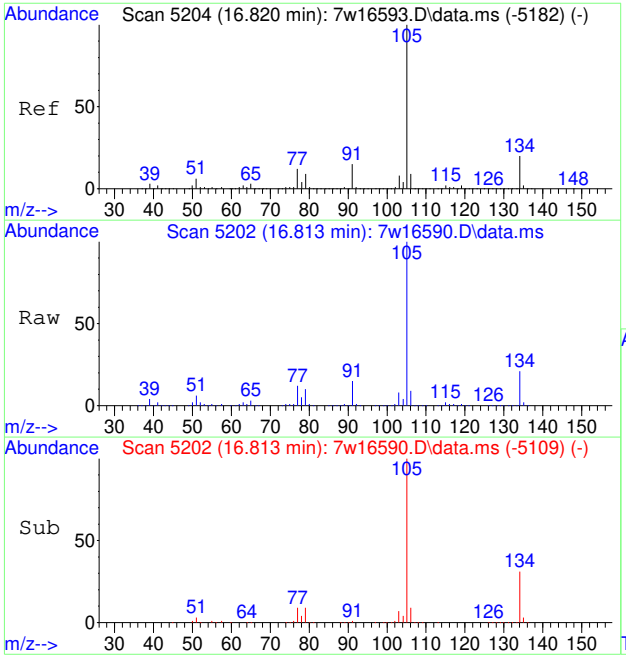


#100
O-DICHLOROBENZENE
Concen: 10.70 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 400770

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.4	26.9	50.1

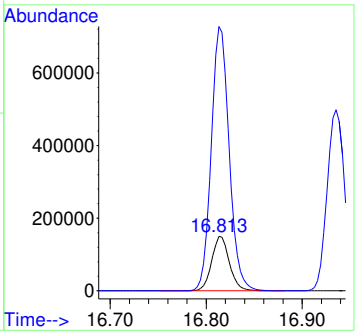


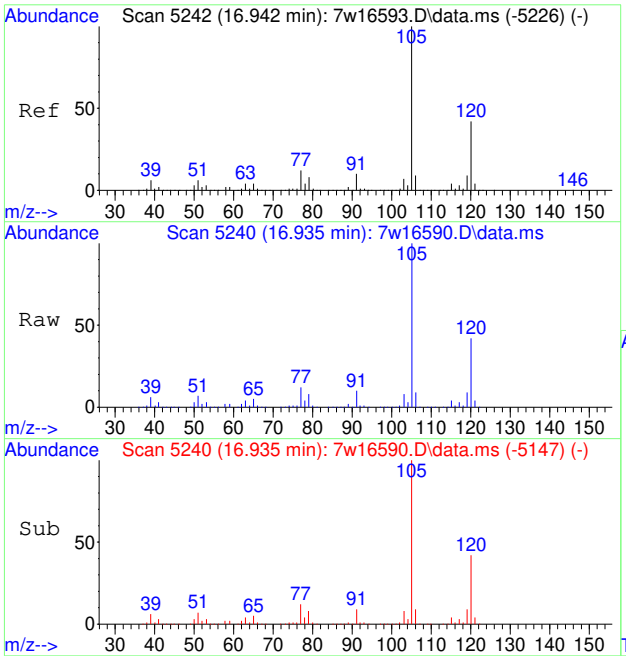


#101
SEC-BUTYLBENZENE
Concen: 11.00 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 191611

Ion	Ratio	Lower	Upper
134	100		
105	492.5	314.4	584.0

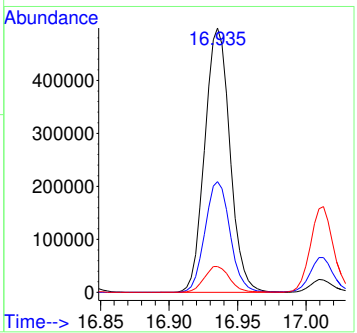


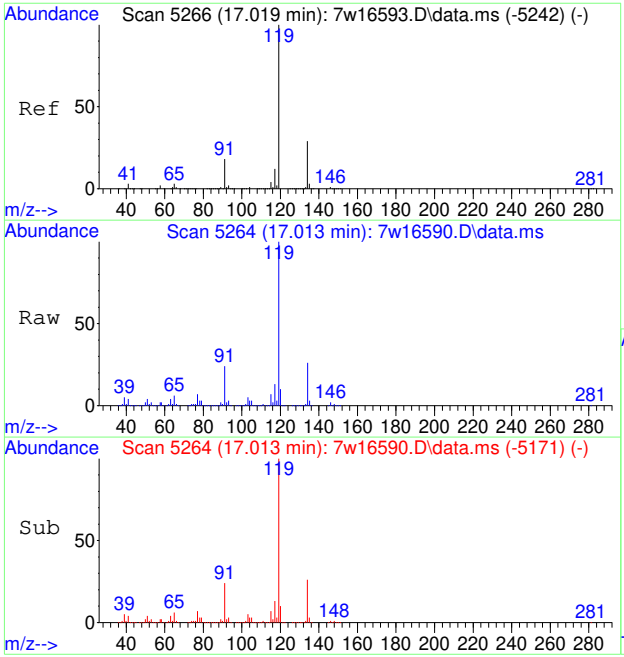


#102
1,2,3-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 636319

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

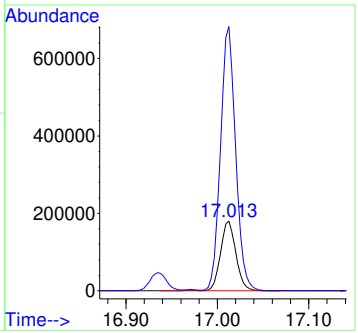


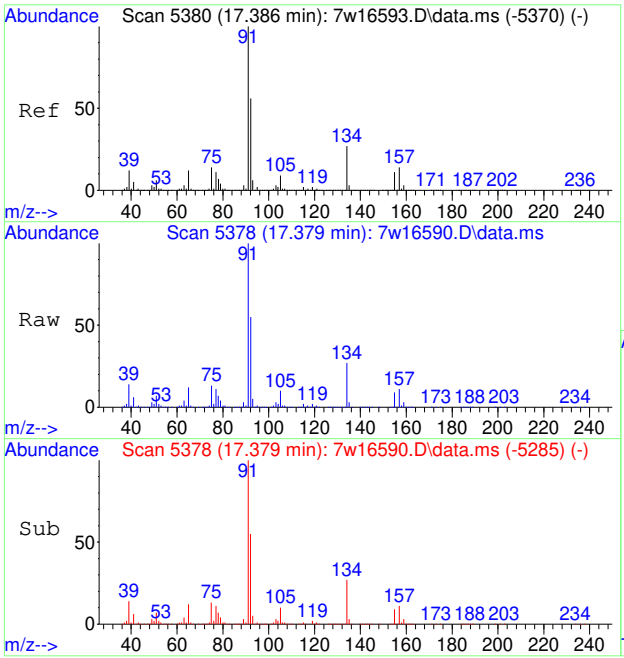


#103
P-ISOPROPYLTOLUENE
Concen: 10.80 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 211524

Ion	Ratio	Lower	Upper
134	100		
119	373.4	253.7	471.3

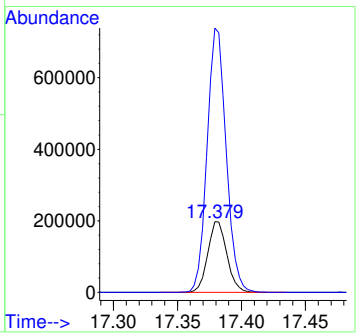


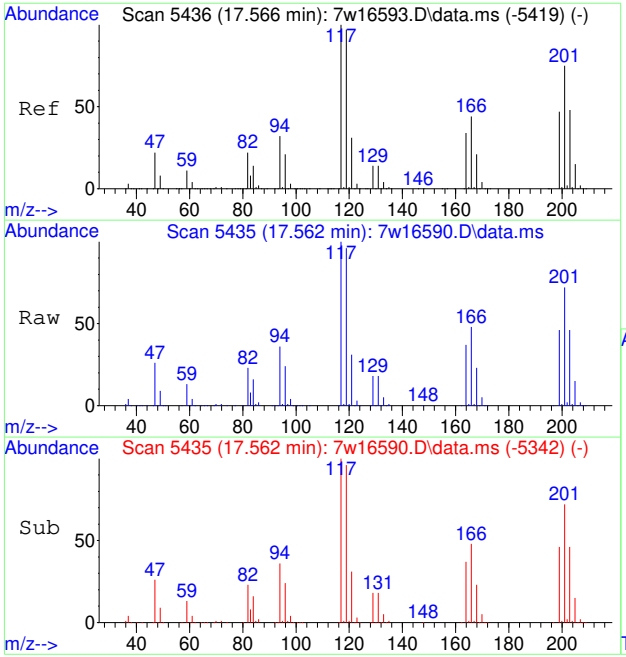


#104
N-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 205284

Ion	Ratio	Lower	Upper
134	100		
91	372.9	231.1	429.1

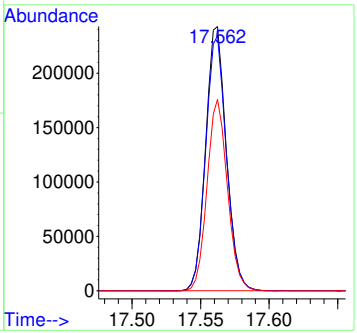


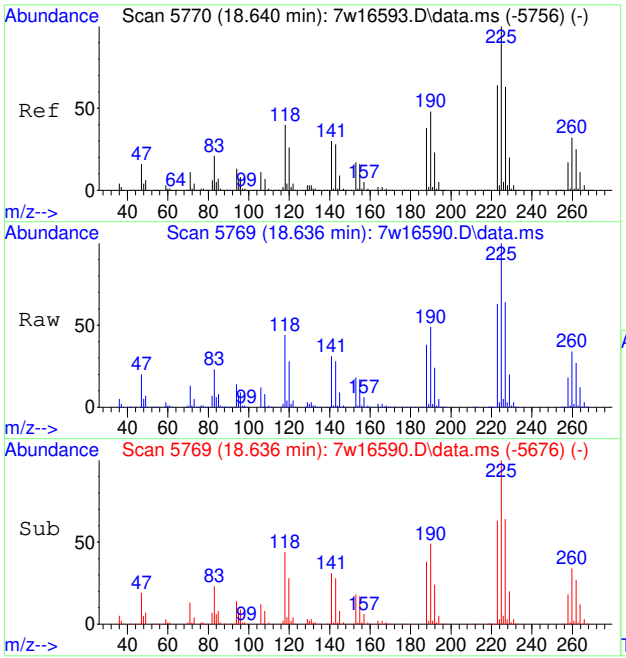


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 254836

Ion	Ratio	Lower	Upper
117	100		
119	96.7	68.3	126.9
201	71.2	45.9	85.3

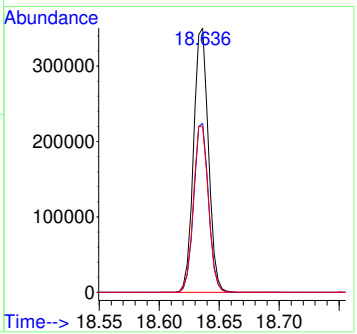


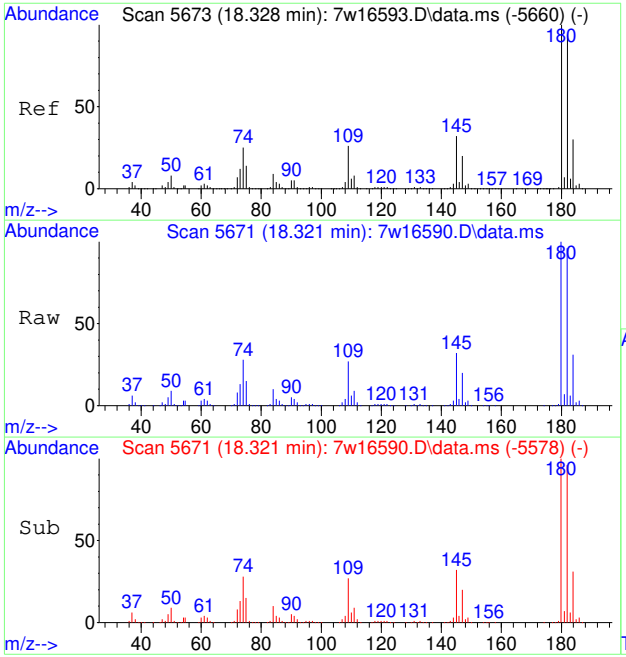


#106
HEXACHLOROBUTADIENE
Concen: 11.70 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:225 Resp: 300683

Ion	Ratio	Lower	Upper
225	100		
227	63.7	44.4	82.5
223	63.7	44.7	83.1

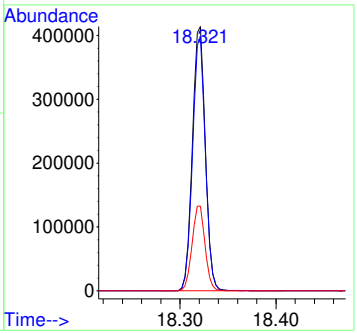


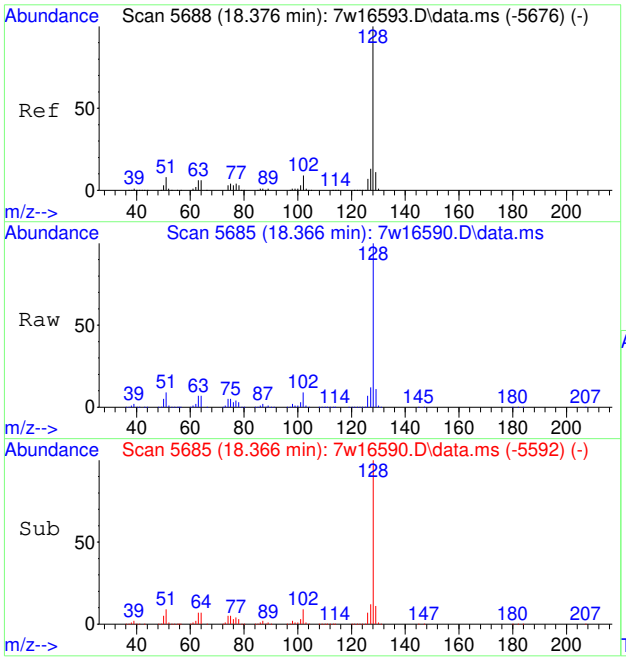


#107
1,2,4-TRICHLOROBENZENE
Concen: 11.70 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:180 Resp: 387303

Ion	Ratio	Lower	Upper
180	100		
182	95.1	66.8	124.0
145	32.2	23.1	42.9

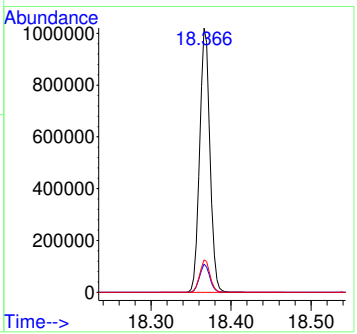


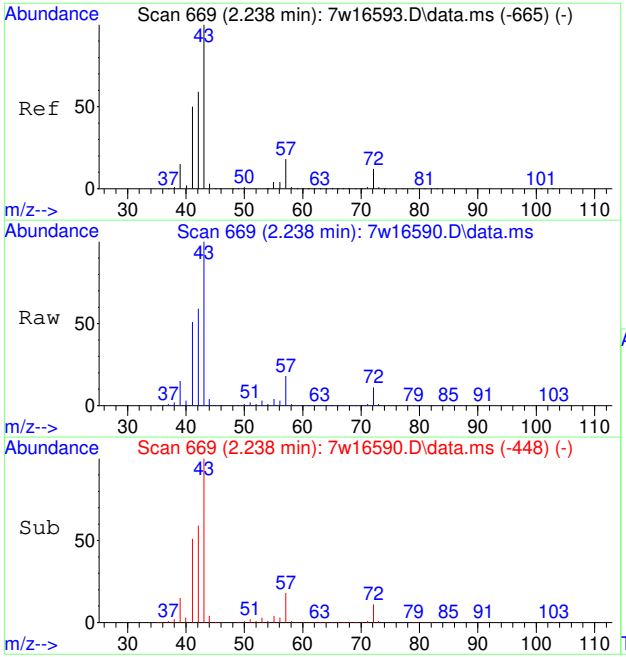


#108
NAPHTHALENE
Concen: 11.80 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:128 Resp: 909462

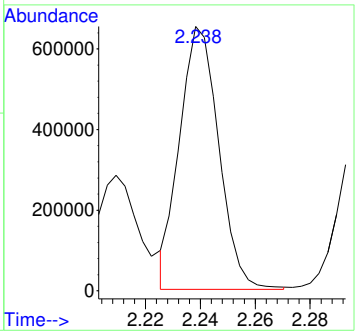
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.3	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 10.59 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:TIC Resp: 646941



7.7.19

7

Manual Integration Approval Summary

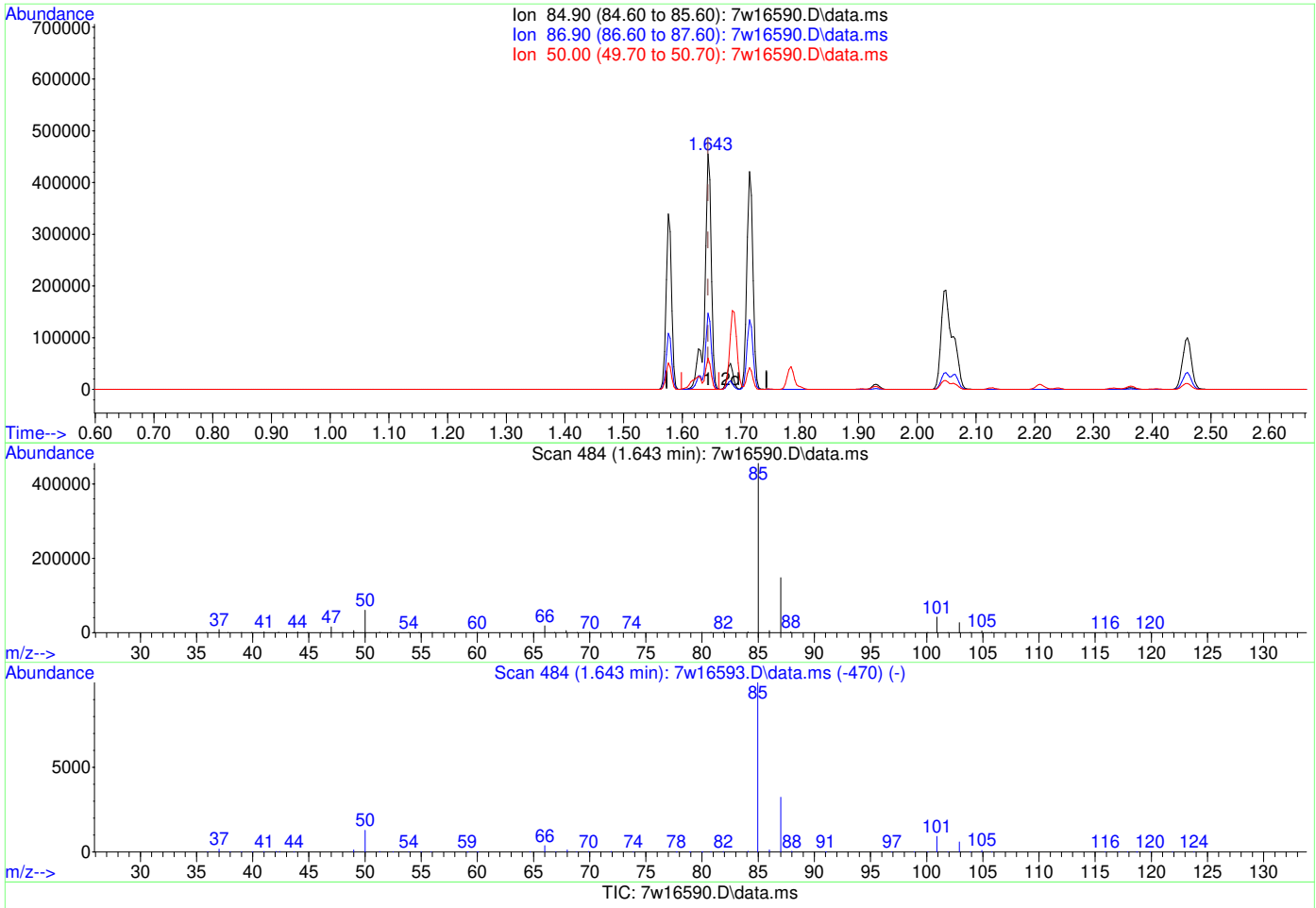
Sample Number: V7W577-ICC577
Lab FileID: 7W16590.D
Injection Time: 08/07/25 13:07
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 10.60PPBV

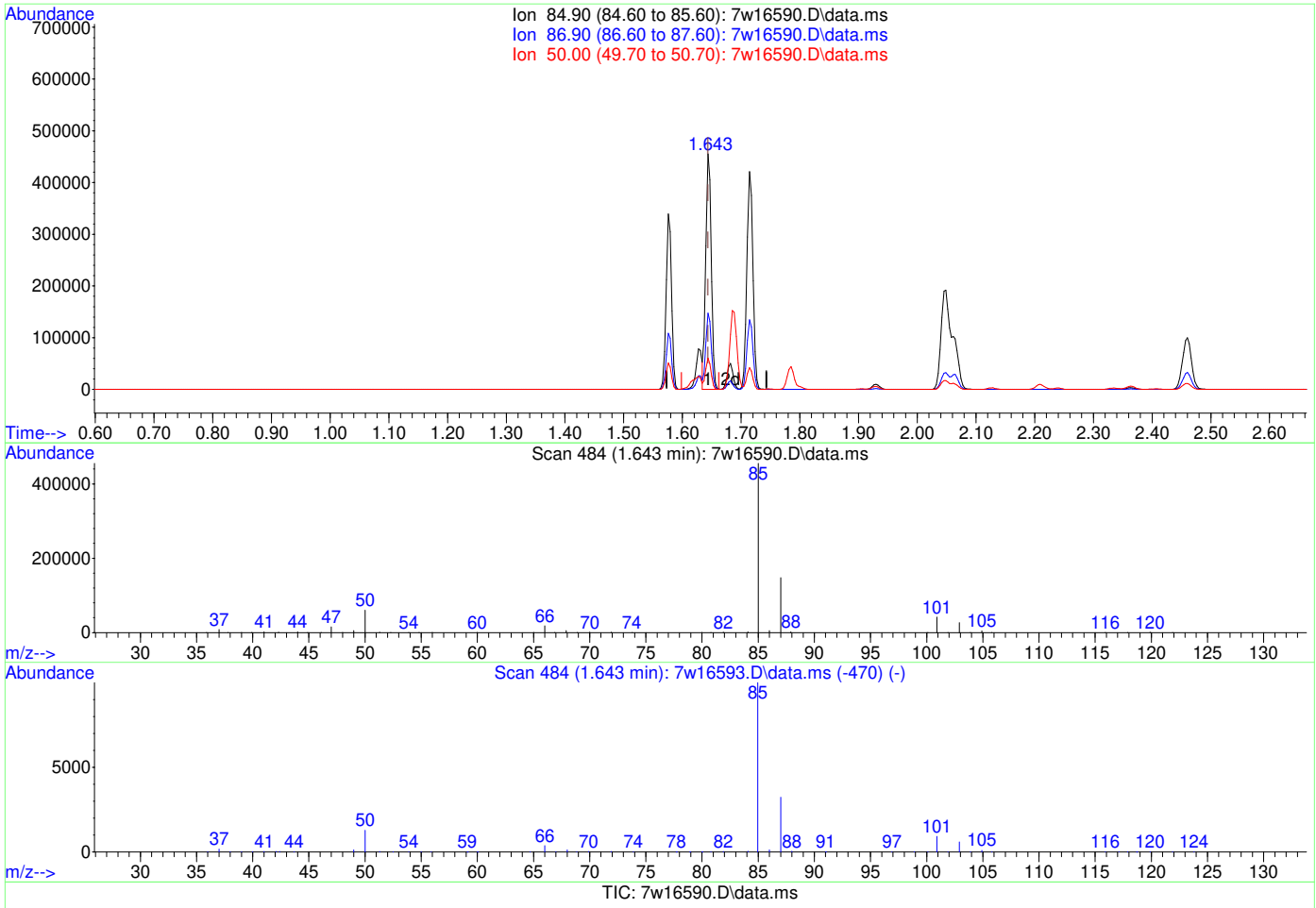
response 350784

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.84
50.00	17.30	19.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 8.88PPBV m

response 294067

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.18
50.00	17.30	23.06#
0.00	0.00	0.00

7W16591.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109480	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	545187	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	503767	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109480	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	408790	9.97	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	249521	17.67	PPBV		90
3) FREON 152A	1.608	65	134083	19.87	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	61032	19.91	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	298756	19.87	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.647	85	530689m	16.21	PPBV		
7) PROPYLENE	1.627	41	171796	19.80	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	483910	19.78	PPBV		99
9) FREON 114	1.717	85	552603	19.29	PPBV		83
10) CHLOROMETHANE	1.688	52	73238	19.85	PPBV		96
11) VINYL CHLORIDE	1.750	62	258206	18.84	PPBV		99
12) 1,3-BUTADIENE	1.785	54	200205	18.85	PPBV	#	74
13) N-BUTANE	1.801	43	354476	19.48	PPBV		97
14) BROMOMETHANE	1.859	94	197085	18.92	PPBV		97
15) CHLOROETHANE	1.907	64	136427	18.81	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	473770	18.30	PPBV		96
17) ACETONITRILE	1.997	41	201387	17.69	PPBV		96
18) ACROLEIN	2.036	56	114846	19.37	PPBV		97
19) FREON 123	2.049	83	521378	19.72	PPBV		96
20) FREON 123A	2.065	117	305527m	19.66	PPBV		
21) TRICHLOROFLUOROMETHANE	2.129	101	556426	18.45	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	474515	18.98	PPBV		89
23) ACETONE	2.071	58	129681	18.71	PPBV		64
24) PENTANE	2.242	42	249050	19.26	PPBV		87
25) IODOMETHANE	2.303	142	541893	19.59	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.328	96	219577	19.61	PPBV	#	60
27) CARBON DISULFIDE	2.463	76	631688	19.43	PPBV		92
28) ETHANOL	1.933	45	114301	17.84	PPBV		97
29) BROMOETHENE	2.007	106	202351	18.58	PPBV		95
30) ACRYLONITRILE	2.213	52	187985	19.57	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	196005	18.45	PPBV	#	78
32) 3-CHLOROPROPENE	2.409	76	114925	18.95	PPBV		73
33) FREON 113	2.460	151	337394	19.33	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.688	96	231431	18.75	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.338	59	526848	17.25	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	677061	19.29	PPBV		97
37) TETRAHYDROFURAN	3.467	72	104573	17.84	PPBV		81
38) HEXANE	3.241	57	453219	19.51	PPBV		80
39) VINYL ACETATE	2.827	86	66441	19.48	PPBV		74
40) 1,1-DICHLOROETHANE	2.759	63	455143	18.70	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	120276	19.21	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.116	96	246893	19.20	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	130636	19.57	PPBV		91
44) ETHYL ACETATE	3.248	61	93045	19.72	PPBV		55
45) METHYL ACRYLATE	3.235	55	561273	19.52	PPBV	#	98
46) CHLOROFORM	3.264	83	484502	19.05	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	525364	19.82	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.823	97	508992	19.19	PPBV		95
49) CARBON TETRACHLORIDE	4.238	117	536446	18.95	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	375248	18.79	PPBV		97
51)	BENZENE	4.129	78	718150	19.31	PPBV		91
53)	CYCLOHEXANE	4.331	84	325475	19.45	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.585	71	167011	19.60	PPBV		67
55)	TRICHLOROETHENE	5.013	95	327435	18.36	PPBV		86
56)	1,2-DICHLOROPROPANE	4.785	63	302257	19.23	PPBV		92
57)	DIBROMOMETHANE	4.746	174	277930	19.08	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	703238	19.73	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.962	83	549357	18.61	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	1404688	18.90	PPBV	#	96
61)	1,4-DIOXANE	5.023	88	159487	18.11	PPBV	#	80
62)	HEPTANE	5.418	43	476905	19.19	PPBV		91
63)	METHYL METHACRYLATE	5.319	69	276982	19.41	PPBV		90
64)	METHYL ISOBUTYL KETONE	6.039	58	278396	19.00	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	474515	19.04	PPBV		96
66)	TOLUENE	7.132	91	898243	19.86	PPBV		98
67)	1,3-DICHLOROPROPANE	7.193	76	463972	19.84	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	425650	18.27	PPBV		95
69)	1,1,2-TRICHLOROETHANE	6.769	83	262141	19.57	PPBV		96
70)	2-HEXANONE	7.695	58	374273	19.43	PPBV	#	78
71)	ETHYL METHACRYLATE	7.833	69	477947	19.46	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	335304	20.14	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.663	129	551638	19.81	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	487978	20.42	PPBV		99
75)	OCTANE	8.997	43	676810	19.89	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	402558	20.28	PPBV		93
78)	CHLOROBENZENE	10.045	112	735731	20.26	PPBV		90
79)	ETHYLBENZENE	10.926	91	1222868	20.44	PPBV		98
80)	M,P-XYLENE	11.354	91	1892381	39.40	PPBV		98
81)	O-XYLENE	12.286	91	959093	20.37	PPBV		96
82)	STYRENE	12.071	104	744213	20.29	PPBV		94
83)	NONANE	13.405	43	723418	20.03	PPBV		83
84)	BROMOFORM	11.161	173	487585	20.35	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	696701	20.31	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.579	75	544148	20.17	PPBV		100
88)	ISOPROPYLBENZENE	13.794	120	360209	19.98	PPBV		88
89)	BROMOBENZENE	13.659	77	684288	20.06	PPBV		76
90)	2-CHLOROTOLUENE	14.788	126	331208	19.42	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	382520	19.58	PPBV		97
92)	4-ETHYLTOLUENE	15.575	105	1412222	19.94	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.849	105	1177558	19.94	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.177	118	587843	19.51	PPBV		97
95)	TERT-BUTYLBENZENE	16.501	134	284215	19.96	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	1206100	20.20	PPBV		94
97)	BENZYL CHLORIDE	16.601	91	1043995	20.31	PPBV		92
98)	M-DICHLOROBENZENE	16.572	146	777553	19.50	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	788870	20.08	PPBV		97
100)	O-DICHLOROBENZENE	16.990	146	731265	19.81	PPBV		97
101)	SEC-BUTYLBENZENE	16.817	134	351357	20.47	PPBV		84
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	1159850	19.79	PPBV		96
103)	P-ISOPROPYLTOLUENE	17.013	134	385467	19.97	PPBV		94
104)	N-BUTYLBENZENE	17.382	134	378596	20.40	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	477608	20.73	PPBV		96
106)	HEXACHLOROBUTADIENE	18.636	225	568005	22.43	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.321	180	737709	22.61	PPBV		100
108)	NAPHTHALENE	18.369	128	1742340	22.94	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	1188767	19.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

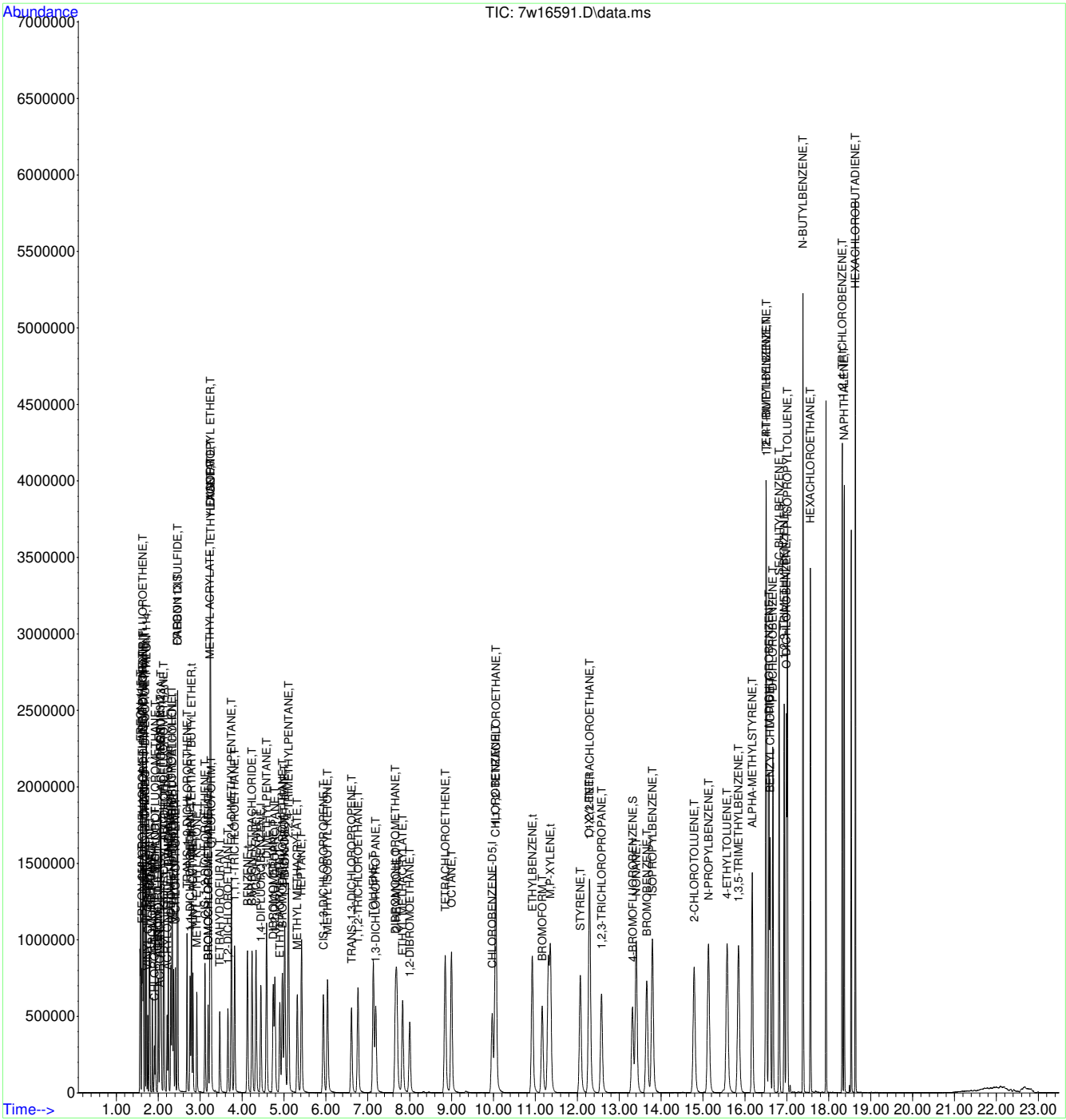
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration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N-BUTYLBENZENE,T
HEXACHLOROETHANE,T
NAPHTHALENE,T
HEXACHLOROBUTADIENE,T
ISOPROPYLTOLUENE,T
2-CHLOROTOLUENE,T
N-PROPYLBENZENE,T
4-ETHYLTOLUENE,T
1,3,5-TRIMETHYLBENZENE,T
ALPHA-METHYLSTYRENE,T
STYRENE,T
1,2,3-TRICHLOROPROPANE,T
ETHYLBENZENE,t
BROMOFORM,T
M,P-XYLENE,t
CHLOROBENZENE-D5,I
CHLOROBENZENE,T
TETRACHLOROETHENE,T
OCTANE,T
1,2-DIBROMOETHANE,T
1,3-DICHLOROPROPANE,T
TRANS-1,3-DICHLOROPROPENE,T
CIS-1,3-DICHLOROPROPENE,T
METHYL METHACRYLATE,T
METHYL ACRYLATE,T
1,1,2-TRICHLOROETHANE,T
TOLUENE-D8,I
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1,2-DIBROMOETHANE,T
1,4-DICHLOROBUTANE,T
BENZENE,T
TETRACHLOROETHENE,T
1,4-DIOXANE,T
TETRAHYDROFURAN,T
1,1,1-TRICHLOROETHANE,T
METHYL ACRYLATE,T
METHYL METHACRYLATE,T
METHYLENE CHLORIDE,T
METHYL TERT-BUTYL ETHER,T
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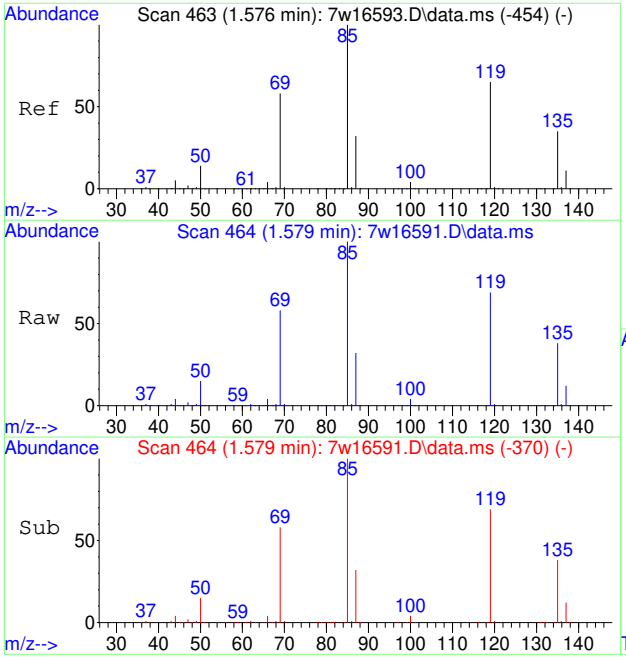
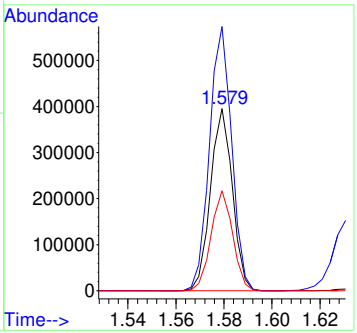
METHYL

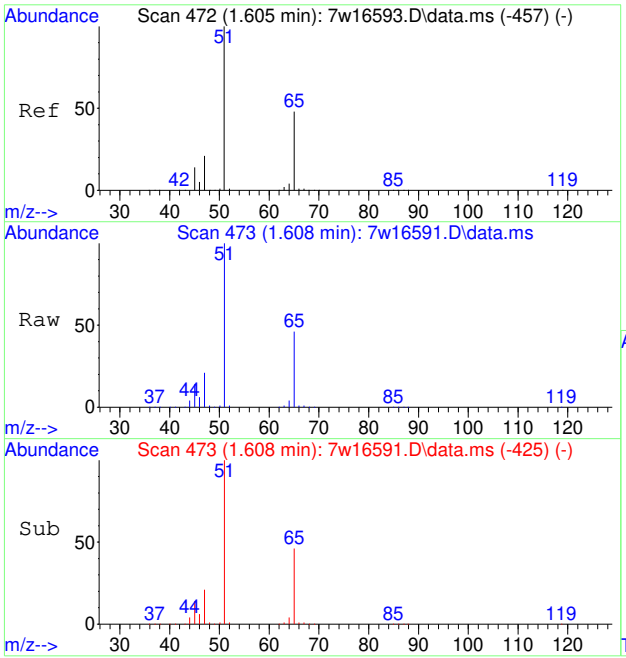


#2
FREON 115
Concen: 17.67 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:119 Resp: 249521

Ion	Ratio	Lower	Upper
119	100		
85	146.7	90.9	168.7
135	54.3	38.2	71.0

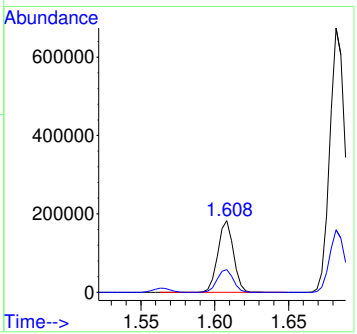


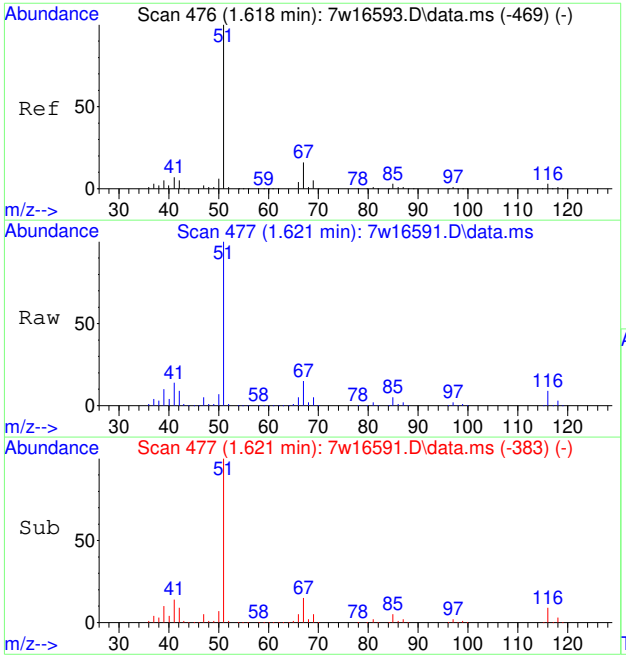


#3
FREON 152A
Concen: 19.87 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 134083

Ion	Ratio	Lower	Upper
65	100		
45	32.5	20.6	38.4

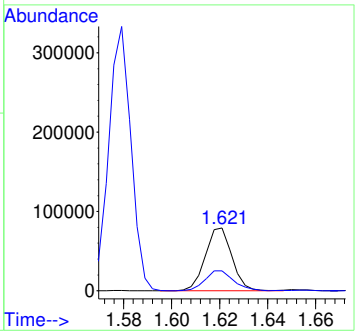


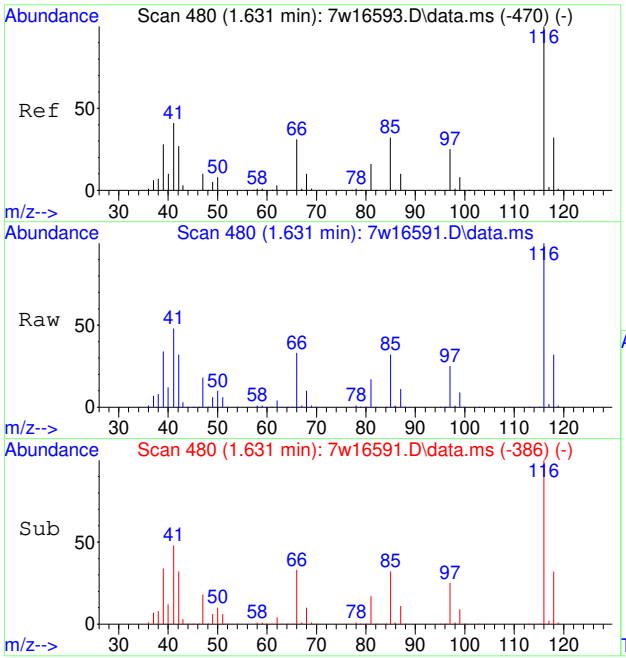


#4
CHLORODIFLUOROMETHANE
Concen: 19.91 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 61032

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

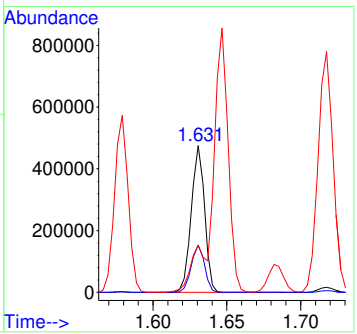


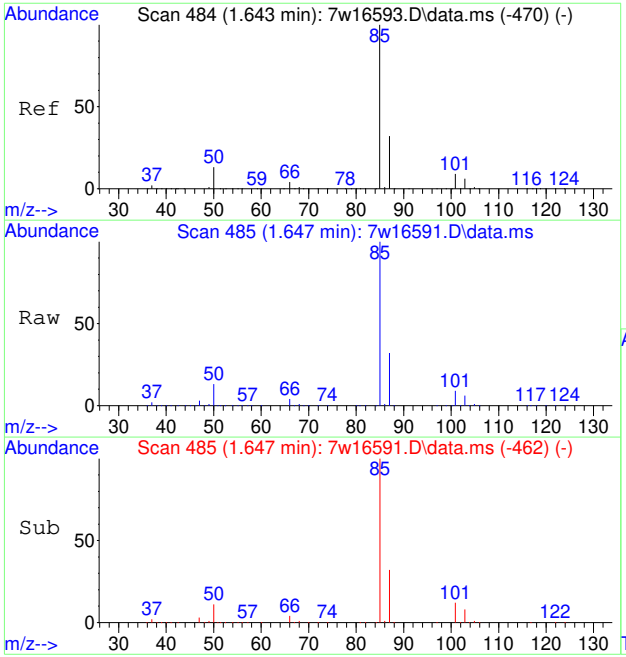


#5
CHLOROTRIFLUOROETHENE
Concen: 19.87 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:116 Resp: 298756

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	216.0	194.7	361.7

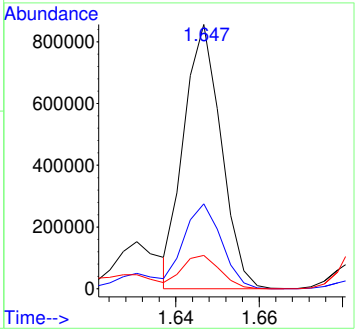


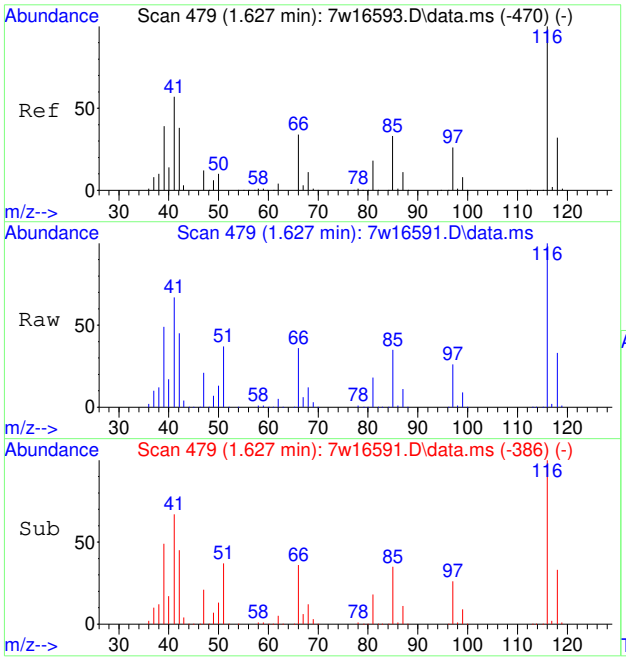


#6
DICHLORODIFLUOROMETHANE
Concen: 16.21 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 530689

Ion	Ratio	Lower	Upper
85	100		
87	39.5	23.1	42.9
50	23.2	12.1	22.5#

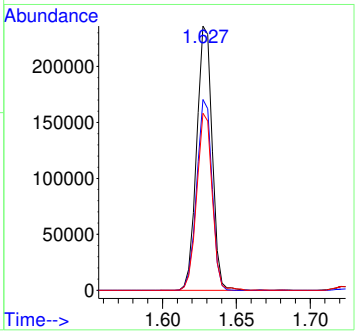


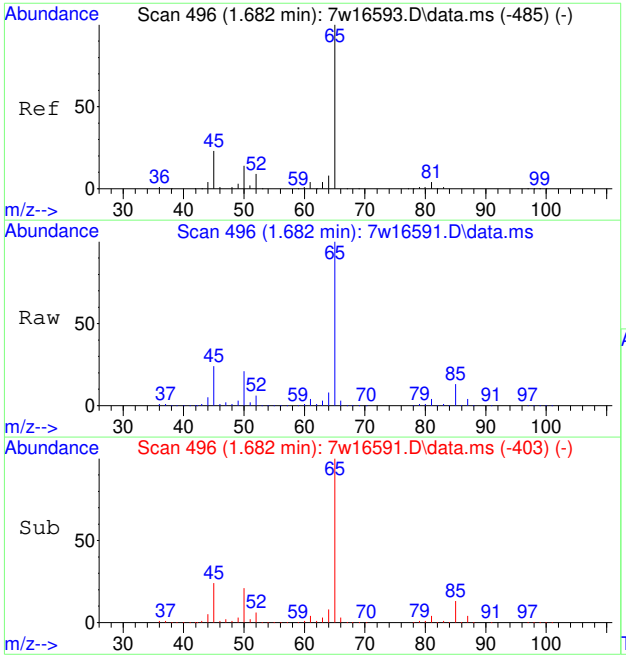


#7
PROPYLENE
Concen: 19.80 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 171796

Ion	Ratio	Lower	Upper
41	100		
39	71.5	51.0	94.8
42	66.7	46.6	86.6

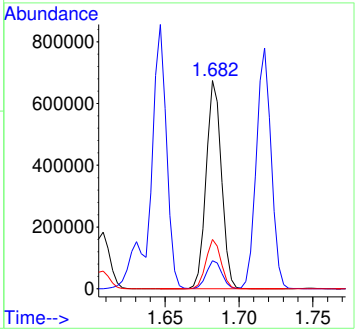


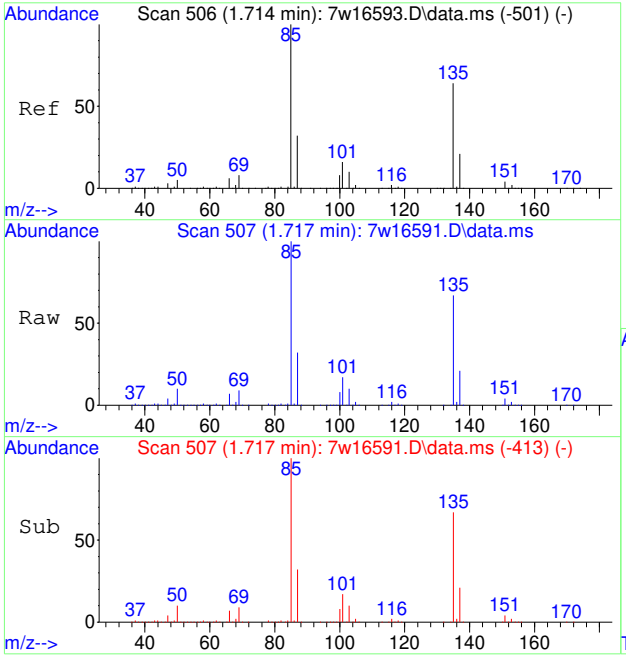


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 19.78 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 483910

Ion	Ratio	Lower	Upper
65	100		
85	13.6	9.7	17.9
45	23.5	17.0	31.6

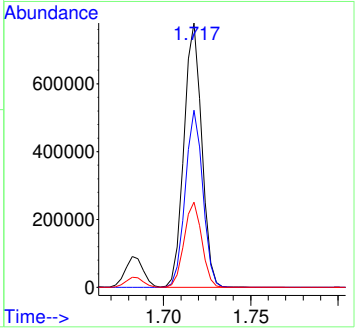


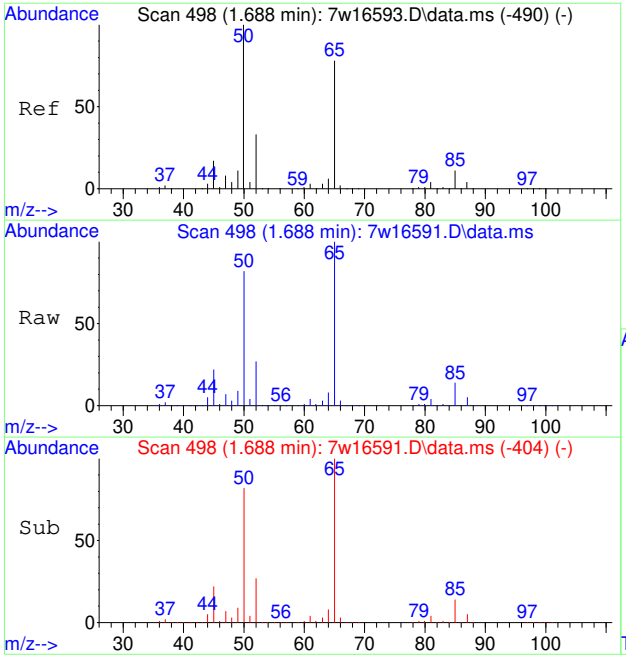


#9
FREON 114
Concen: 19.29 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 552603

Ion	Ratio	Lower	Upper
85	100		
135	66.3	61.3	113.9
87	32.2	23.2	43.0

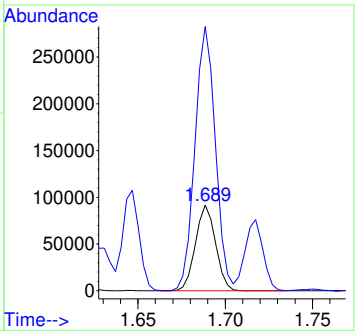


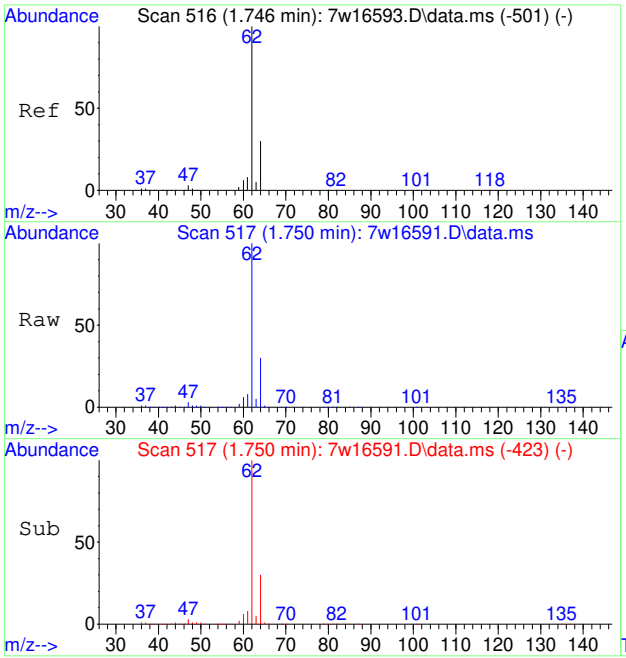


#10
CHLOROMETHANE
Concen: 19.85 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 73238

Ion	Ratio	Lower	Upper
52	100		
50	317.8	227.6	422.6

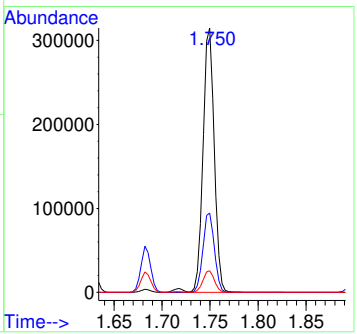


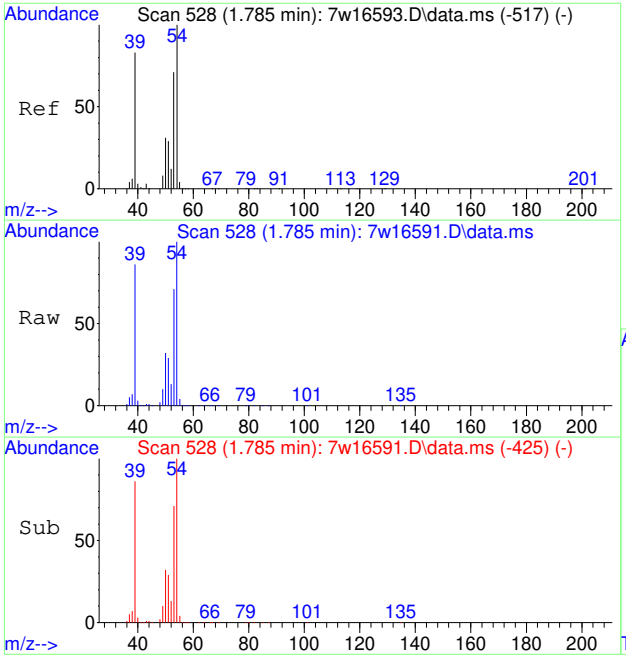


#11
VINYL CHLORIDE
Concen: 18.84 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 258206

Ion	Ratio	Lower	Upper
62	100		
64	30.4	21.6	40.2
61	8.5	5.7	10.7

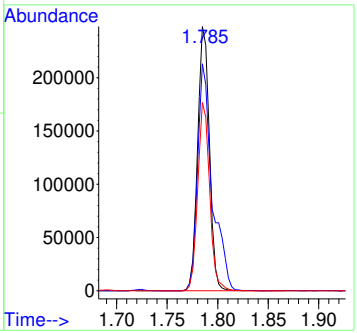


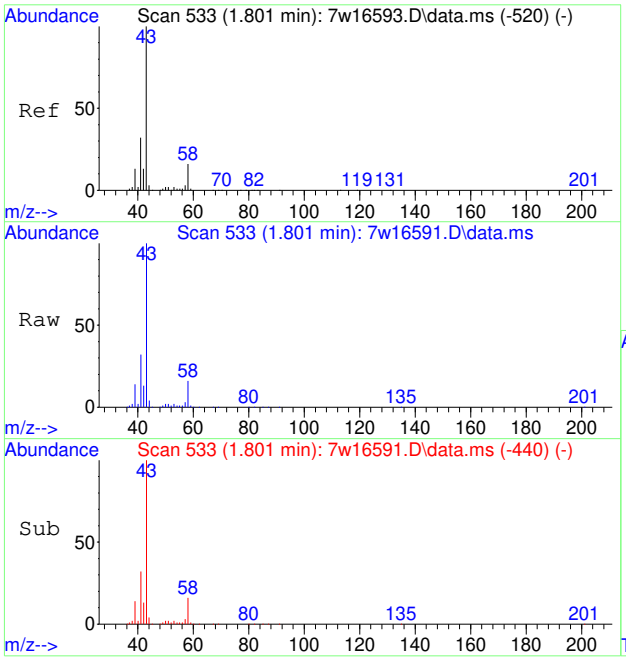


#12
1,3-BUTADIENE
Concen: 18.85 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 54 Resp: 200205

Ion	Ratio	Lower	Upper
54	100		
39	106.9	125.6	185.6#
53	72.3	40.7	100.7

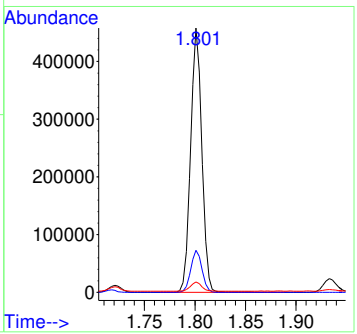


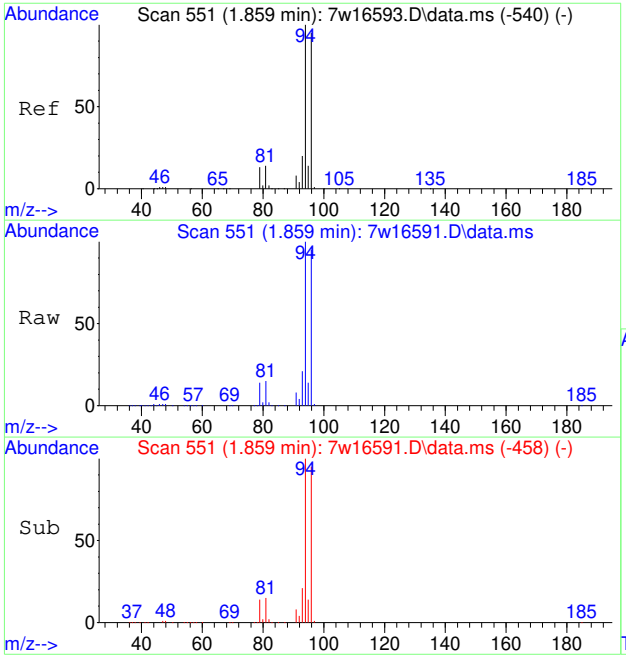


#13
N-BUTANE
Concen: 19.48 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 354476

Ion	Ratio	Lower	Upper
43	100		
58	16.0	10.4	19.4
44	3.6	3.0	5.6

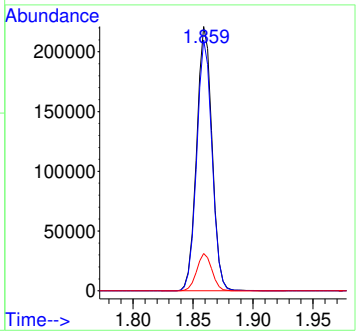


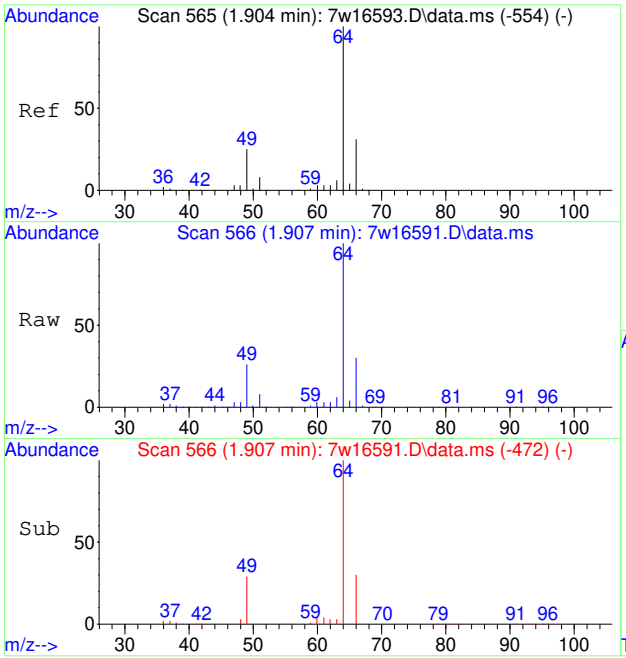


#14
BROMOMETHANE
Concen: 18.92 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 94 Resp: 197085

Ion	Ratio	Lower	Upper
94	100		
96	94.2	63.6	118.0
95	13.9	10.0	18.6

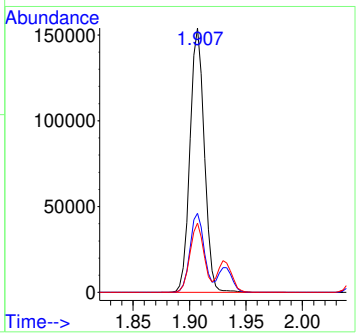


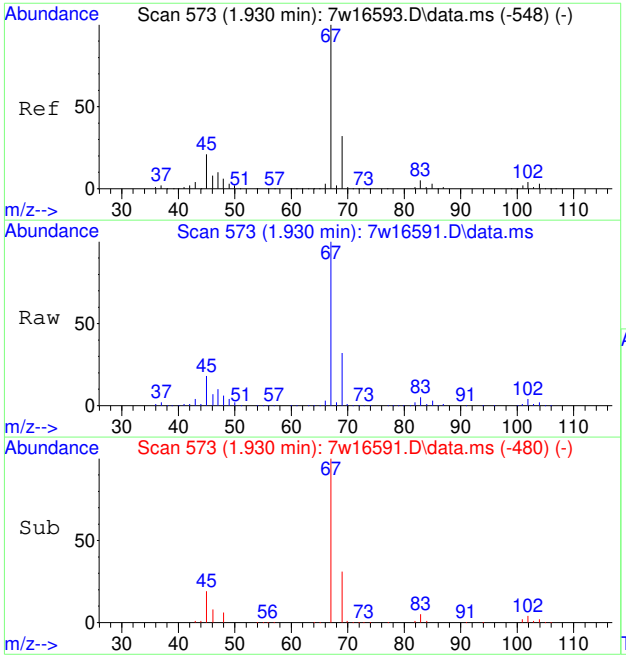


#15
CHLOROETHANE
Concen: 18.81 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 64 Resp: 136427

Ion	Ratio	Lower	Upper
64	100		
66	39.2	23.0	42.6
49	26.0	21.5	39.9

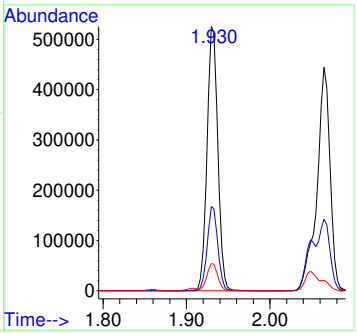


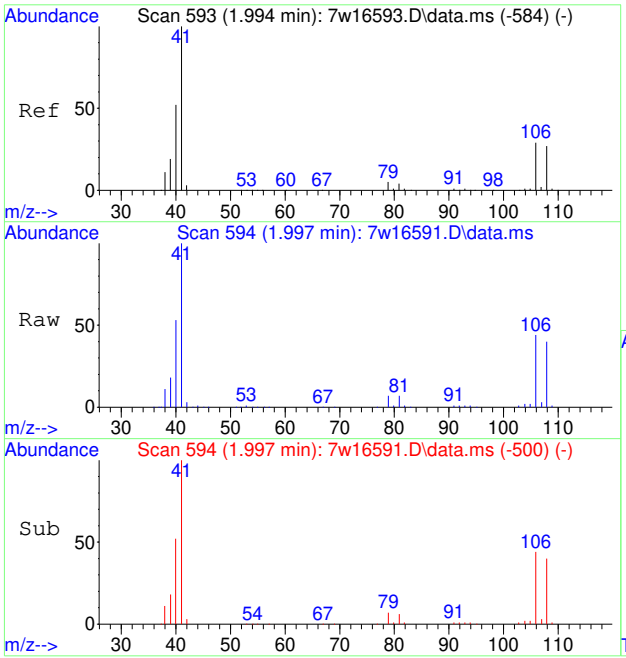


#16
DICHLOROFLUOROMETHANE
Concen: 18.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 473770

Ion	Ratio	Lower	Upper
67	100		
69	31.3	23.2	43.0
47	11.3	9.6	17.8

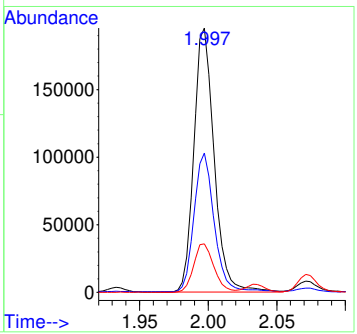


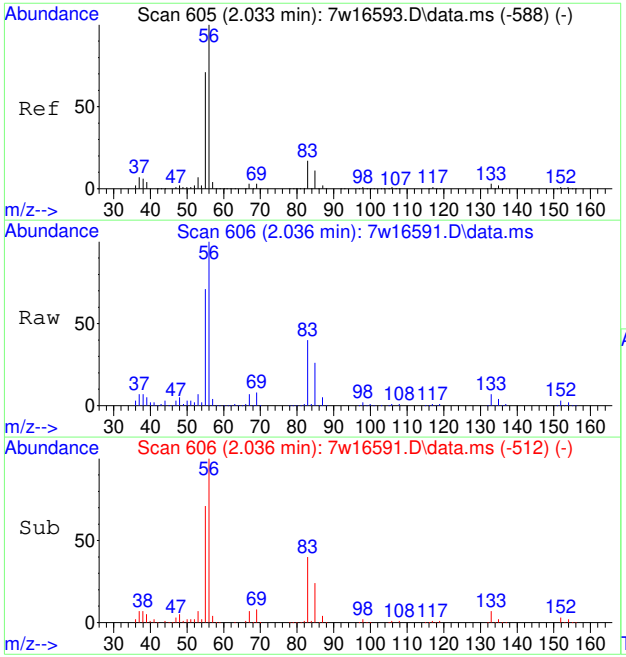


#17
ACETONITRILE
Concen: 17.69 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 201387

Ion	Ratio	Lower	Upper
41	100		
40	52.5	38.4	71.4
39	18.4	14.5	26.9

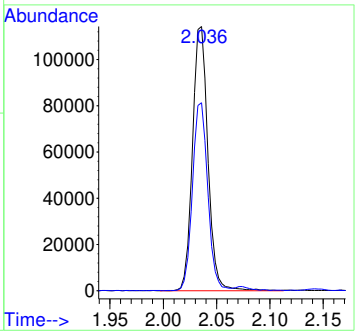


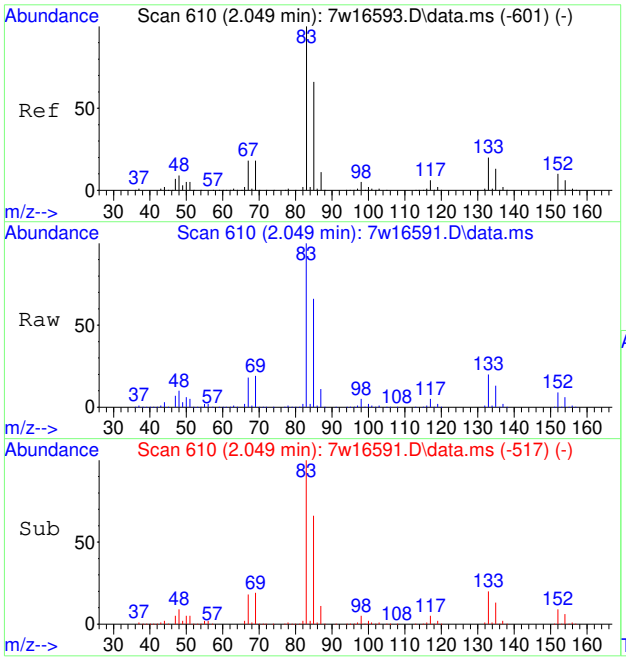


#18
ACROLEIN
Concen: 19.37 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 56 Resp: 114846

Ion	Ratio	Lower	Upper
56	100		
55	70.4	51.2	95.2

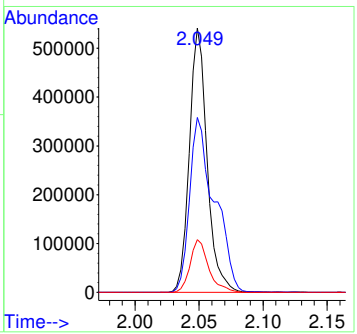


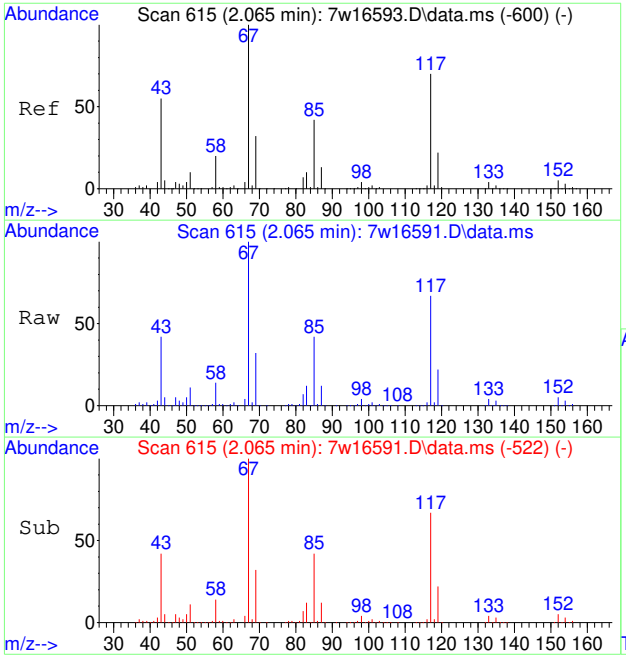


#19
FREON 123
Concen: 19.72 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 521378

Ion	Ratio	Lower	Upper
83	100		
85	92.8	65.7	121.9
133	21.0	19.9	36.9

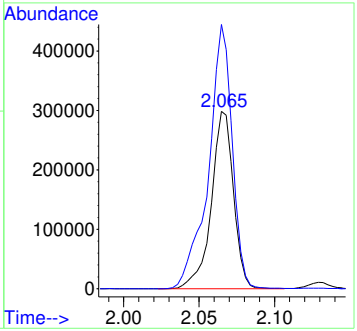


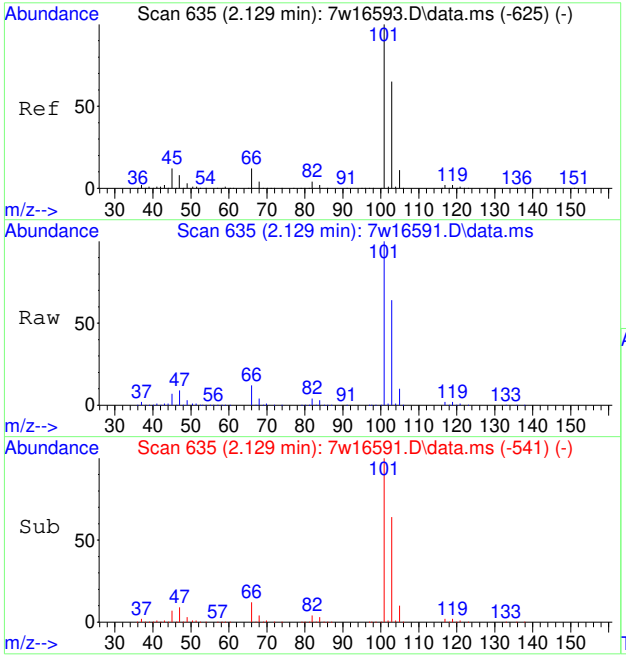


#20
FREON 123A
Concen: 19.66 PPBV m
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 305527

Ion	Ratio	Lower	Upper
117	100		
67	0.0	78.8	146.4#

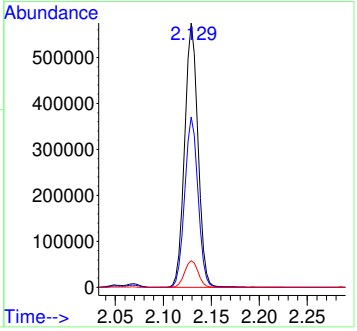


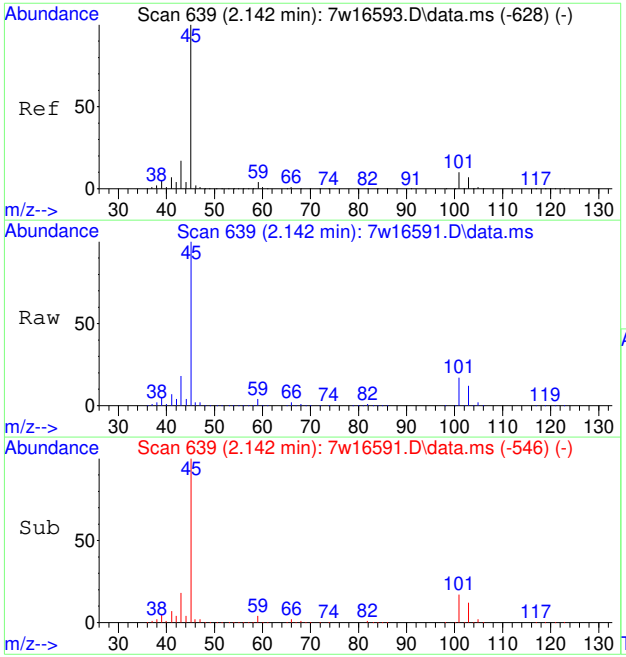


#21
TRICHLOROFLUOROMETHANE
Concen: 18.45 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:101 Resp: 556426

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.3	82.3
105	10.4	7.3	13.7

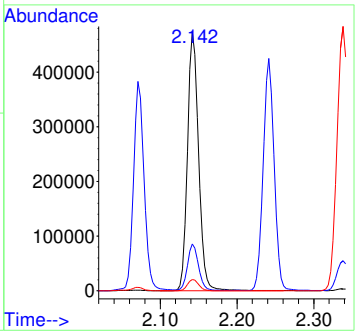


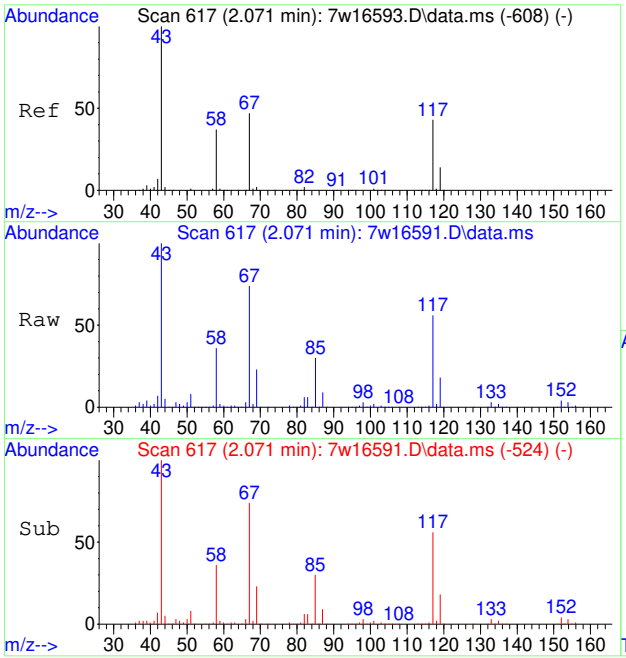


#22
ISOPROPYL ALCOHOL
Concen: 18.98 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 474515

Ion	Ratio	Lower	Upper
45	100		
43	18.1	17.1	31.9
59	4.5	3.1	5.8

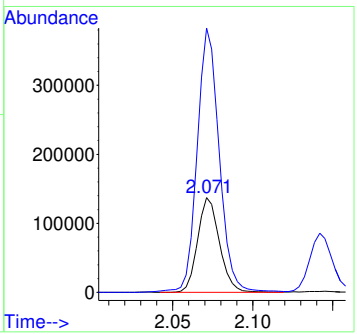


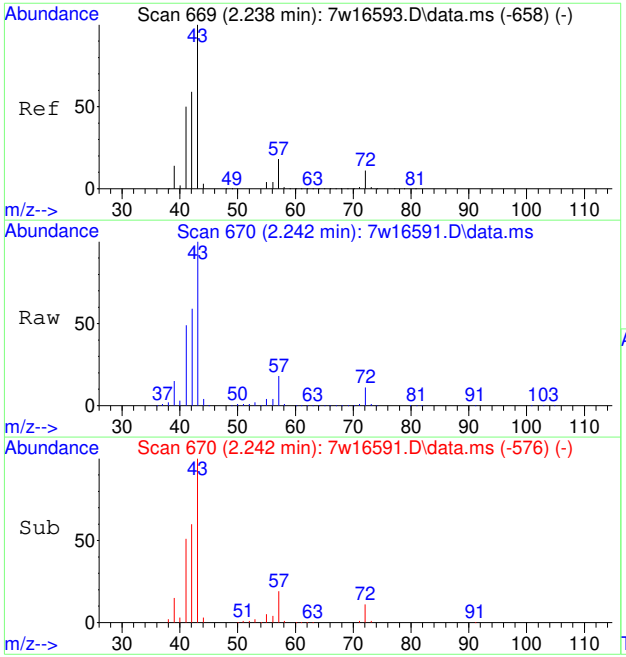


#23
ACETONE
Concen: 18.71 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 129681

Ion	Ratio	Lower	Upper
58	100		
43	282.9	254.0	471.6

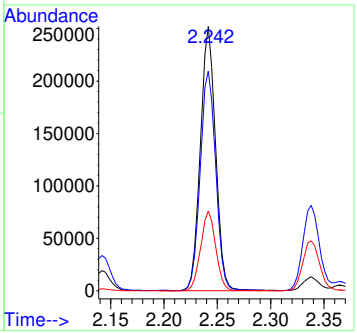


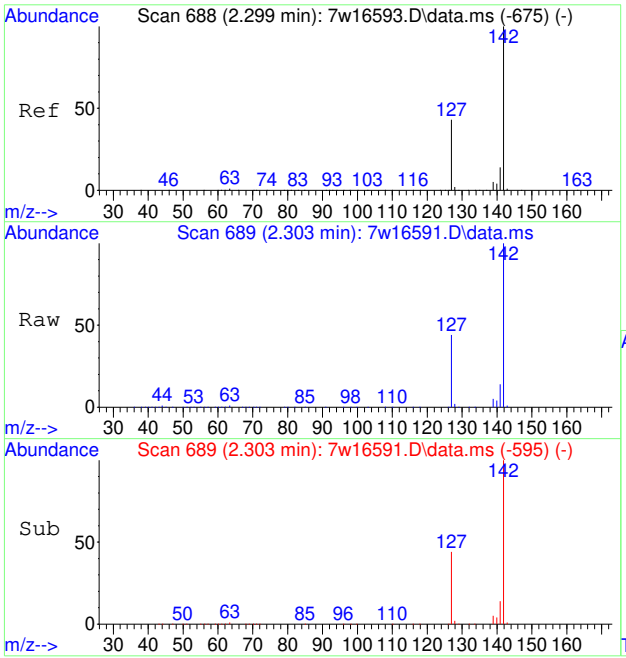


#24
PENTANE
Concen: 19.26 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 42 Resp: 249050

Ion	Ratio	Lower	Upper
42	100		
41	84.6	69.2	128.6
57	30.3	18.6	34.6

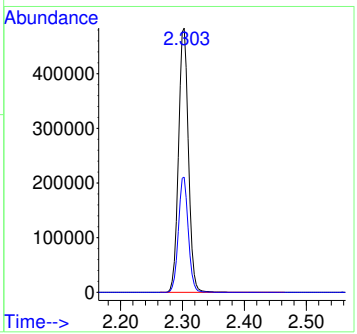


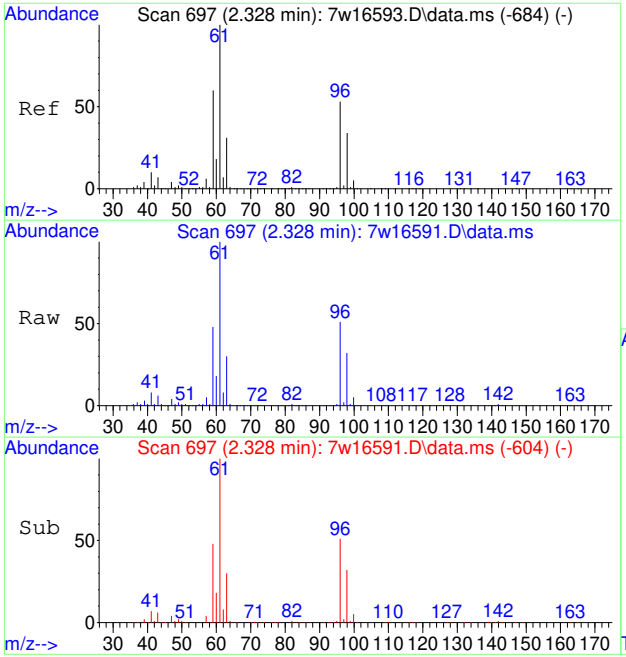


#25
IODOMETHANE
Concen: 19.59 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:142 Resp: 541893

Ion	Ratio	Lower	Upper
142	100		
127	43.5	32.1	59.7

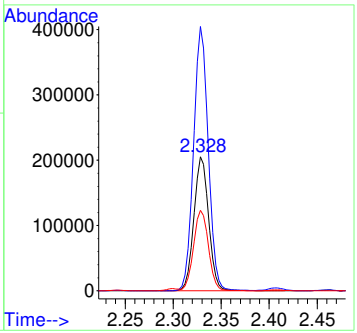


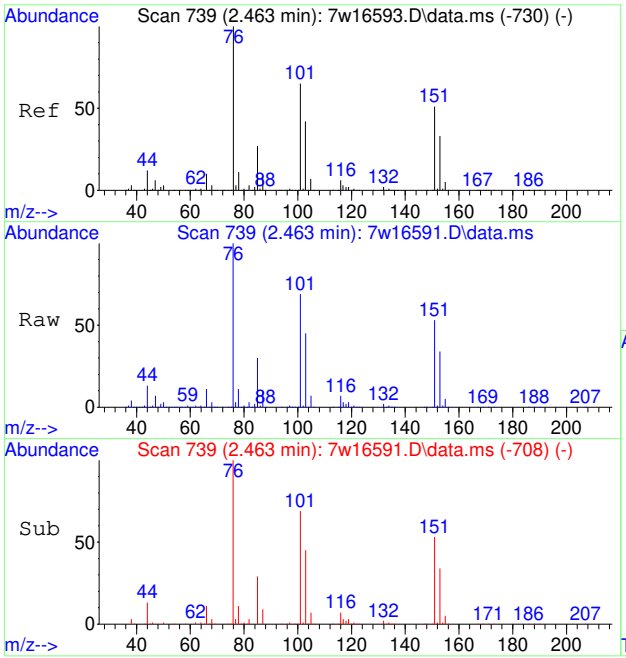


#26
1,1-DICHLOROETHYLENE
Concen: 19.61 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 219577

Ion	Ratio	Lower	Upper
96	100		
61	196.0	98.3	182.5#
63	62.1	33.2	61.7#

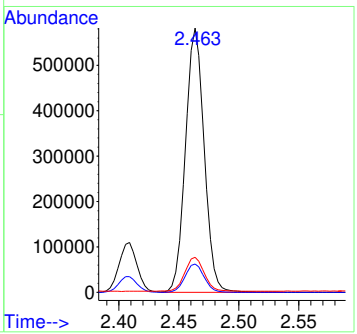


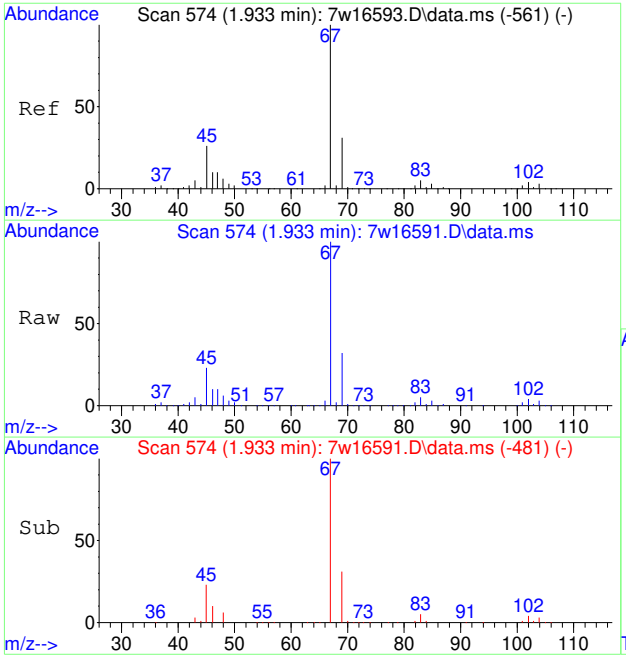


#27
CARBON DISULFIDE
Concen: 19.43 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 631688

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	13.5	13.0	24.1

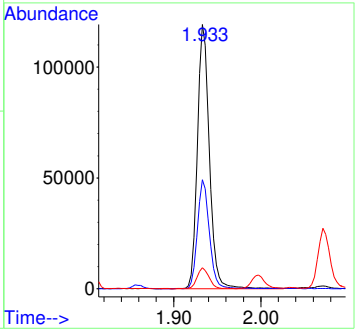


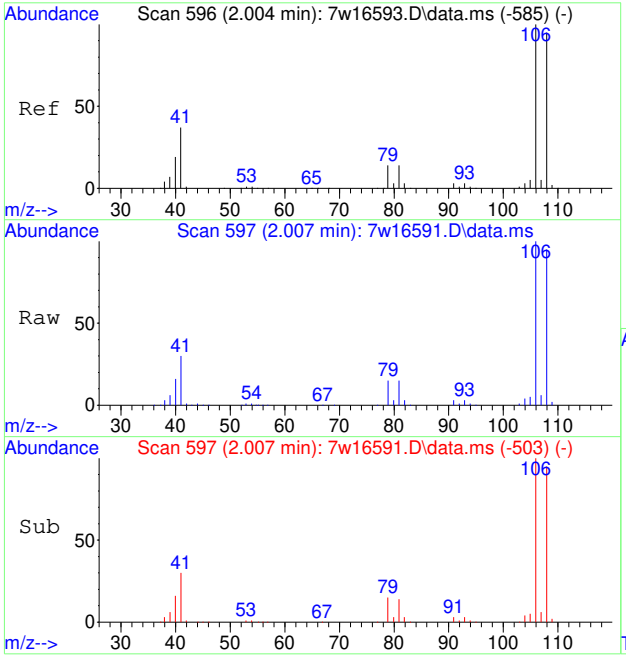


#28
ETHANOL
Concen: 17.84 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 114301

Ion	Ratio	Lower	Upper
45	100		
46	41.1	29.7	55.1
42	7.9	7.3	13.5

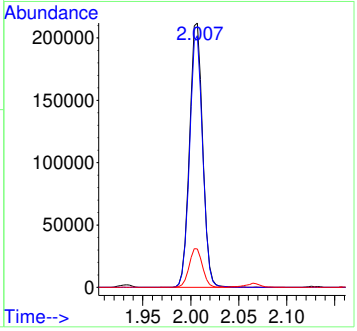


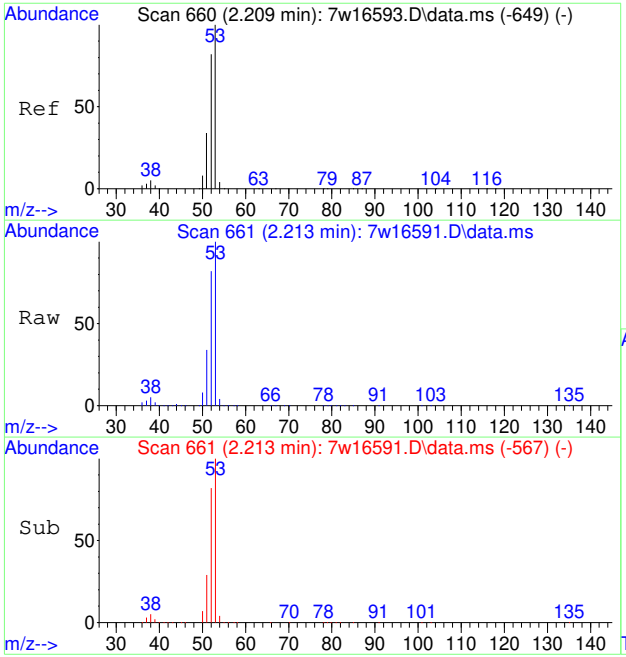


#29
BROMOETHENE
Concen: 18.58 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:106 Resp: 202351

Ion	Ratio	Lower	Upper
106	100		
108	94.8	68.3	126.8
81	15.0	14.7	27.3

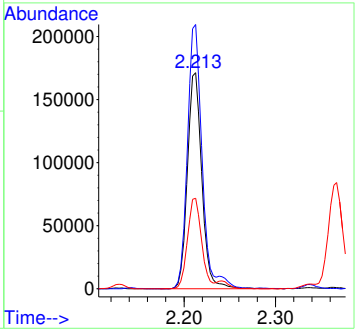


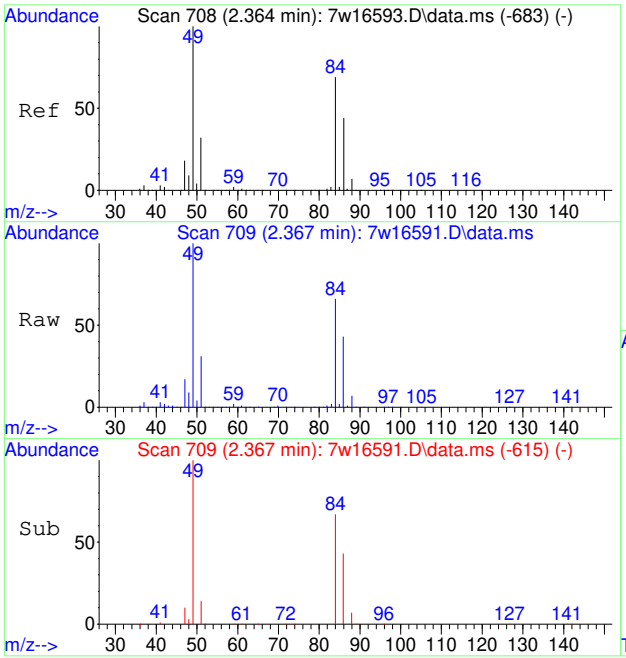


#30
ACRYLONITRILE
Concen: 19.57 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 187985

Ion	Ratio	Lower	Upper
52	100		
53	124.7	86.3	160.3
51	44.3	33.6	62.4

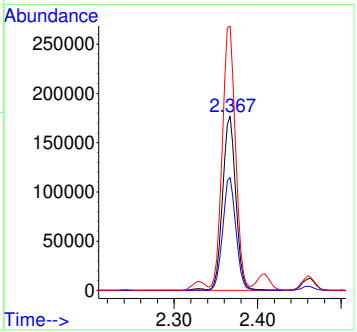


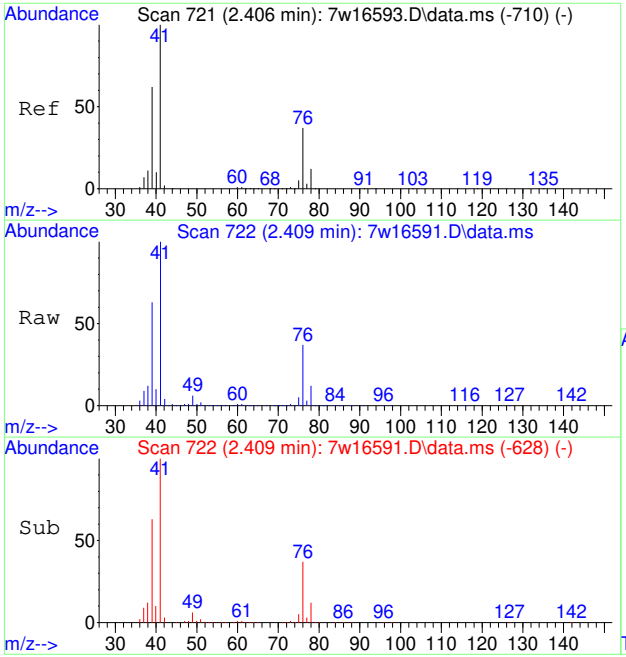


#31
METHYLENE CHLORIDE
Concen: 18.45 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 196005

Ion	Ratio	Lower	Upper
84	100		
86	64.3	44.9	83.5
49	151.2	79.7	148.1#

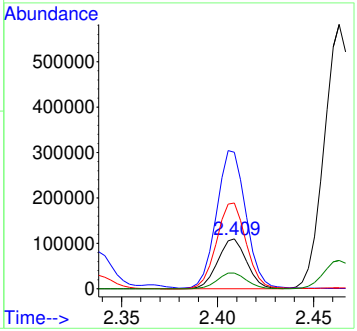


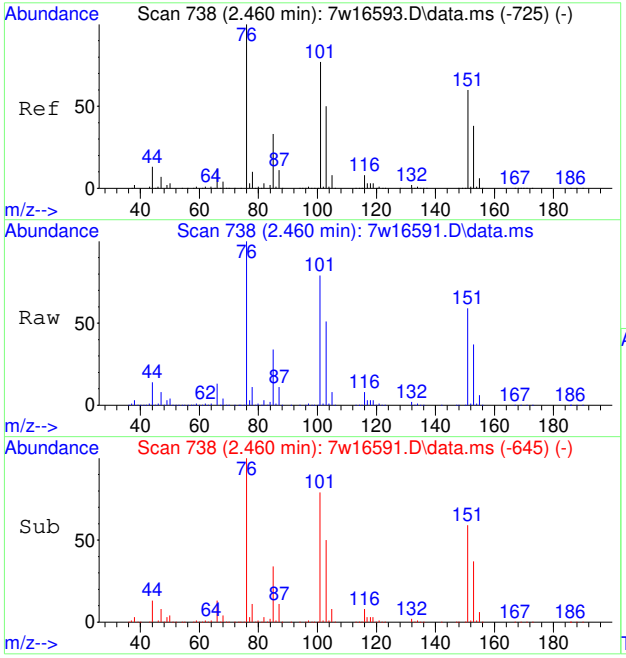


#32
3-CHLOROPROPENE
Concen: 18.95 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 114925

Ion	Ratio	Lower	Upper
76	100		
41	283.8	160.9	298.9
39	176.4	150.7	279.9
78	32.4	22.7	42.1

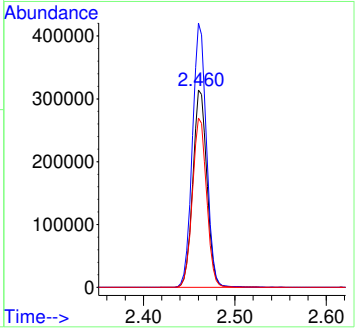


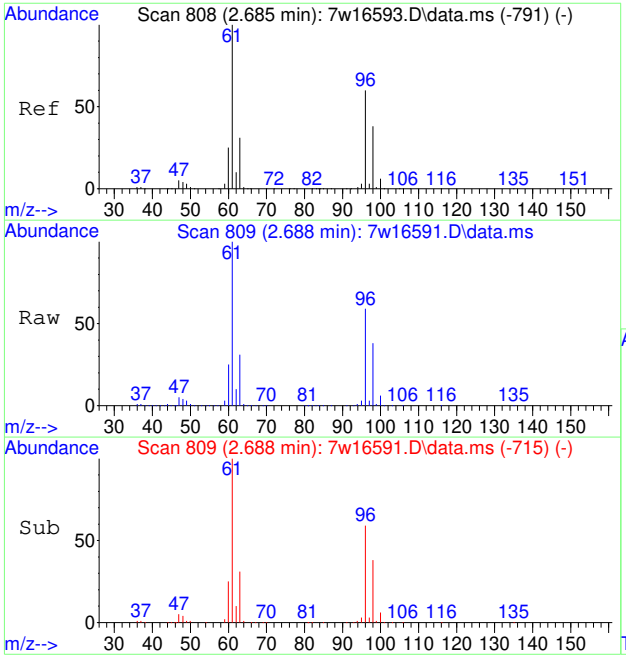


#33
FREON 113
Concen: 19.33 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:151 Resp: 337394

Ion	Ratio	Lower	Upper
151	100		
101	133.1	81.1	150.7
103	86.2	51.4	95.4

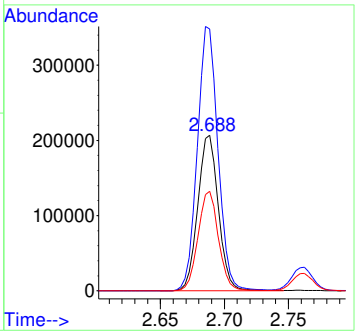


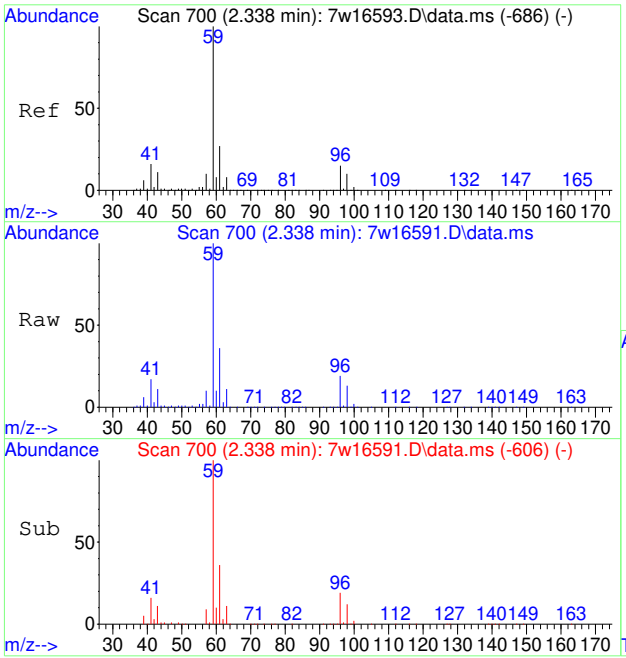


#34
TRANS-1,2-DICHLOROETHENE
Concen: 18.75 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 231431

Ion	Ratio	Lower	Upper
96	100		
61	170.1	78.5	145.9#
98	63.6	46.5	86.3

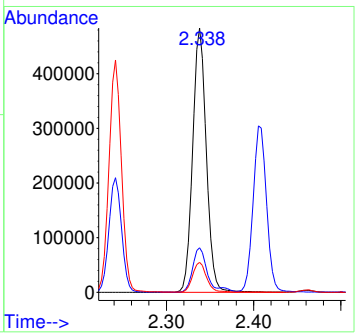


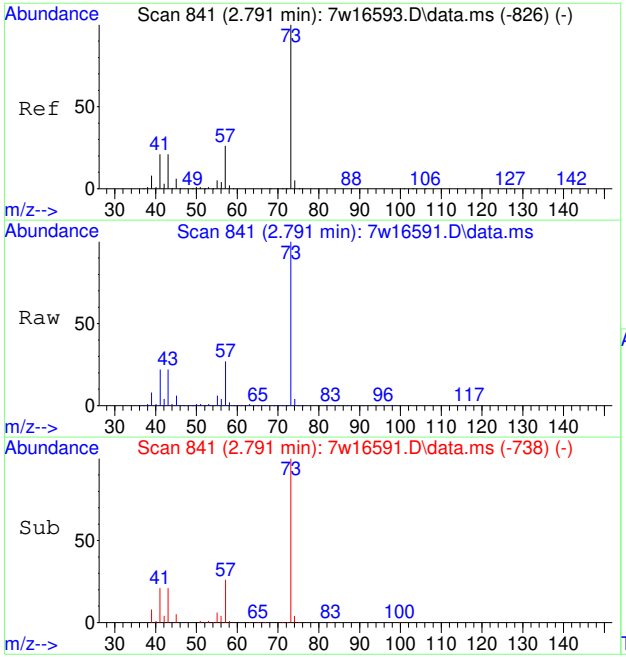


#35
TERTIARY BUTYL ALCOHOL
Concen: 17.25 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 526848

Ion	Ratio	Lower	Upper
59	100		
41	18.2	15.3	28.5
43	11.7	12.3	22.9#

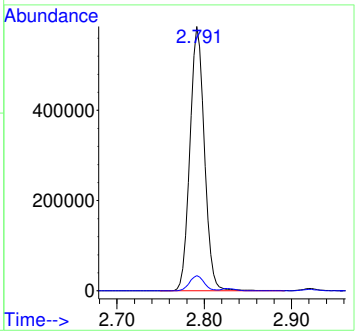


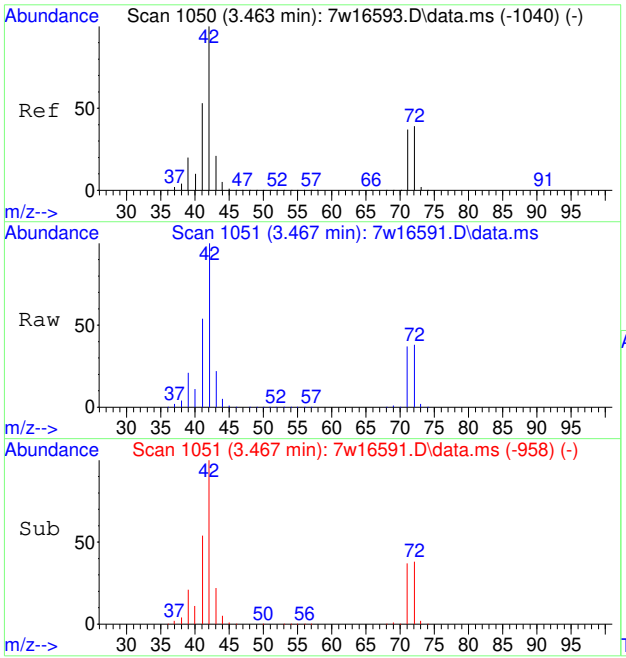


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.29 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 73 Resp: 677061

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

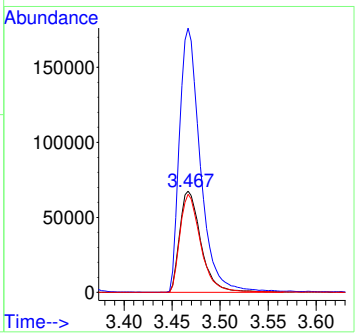


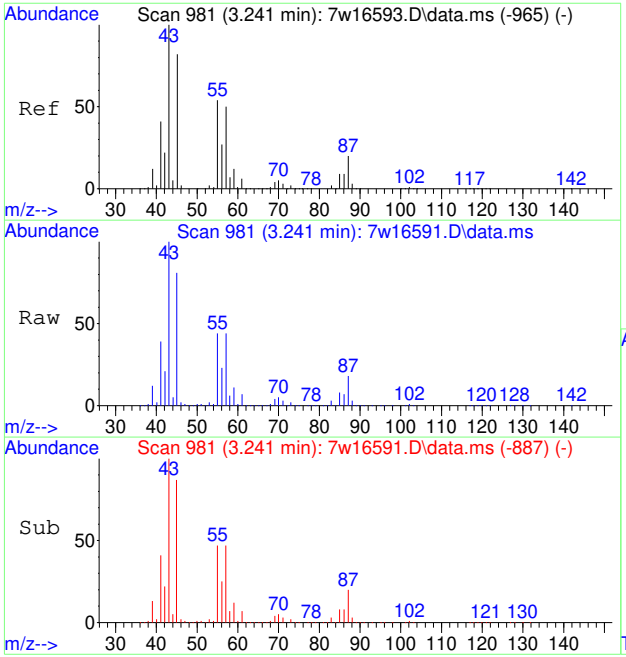


#37
TETRAHYDROFURAN
Concen: 17.84 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 104573

Ion	Ratio	Lower	Upper
72	100		
42	257.1	153.0	284.2
71	95.4	62.7	116.5

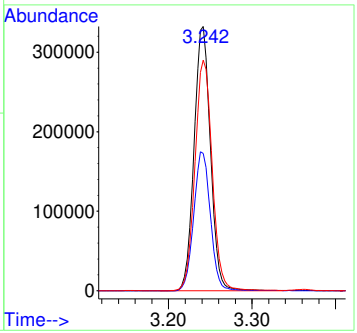


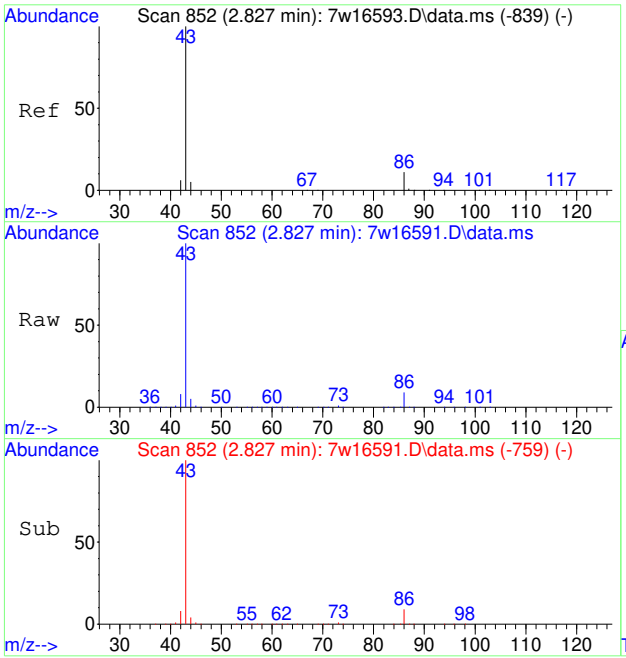


#38
HEXANE
Concen: 19.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 453219

Ion	Ratio	Lower	Upper
57	100		
56	53.6	37.3	69.3
41	92.0	86.7	161.1

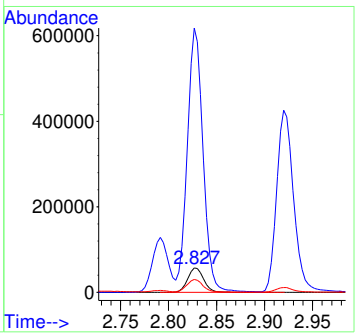


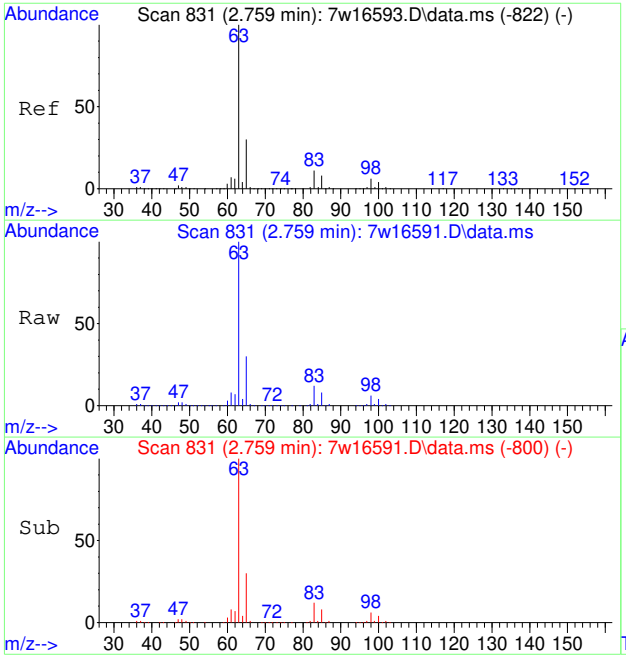


#39
VINYL ACETATE
Concen: 19.48 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 86 Resp: 66441

Ion	Ratio	Lower	Upper
86	100		
43	1069.2	667.9	1240.3
44	51.6	32.7	60.7

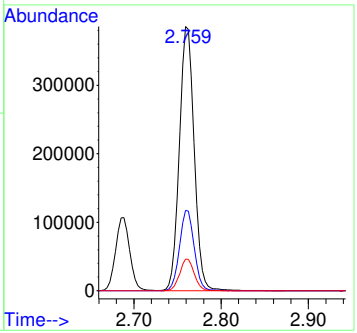


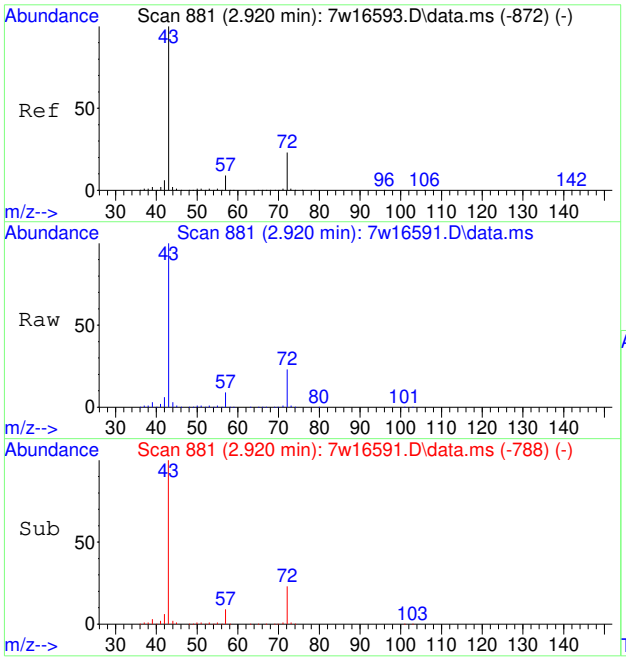


#40
1,1-DICHLOROETHANE
Concen: 18.70 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 455143

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.8	40.6
83	12.0	10.6	19.6

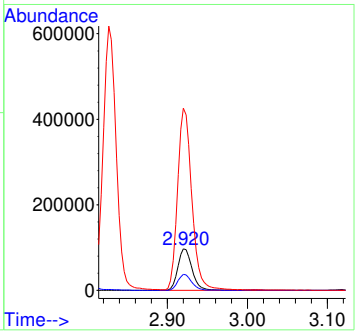


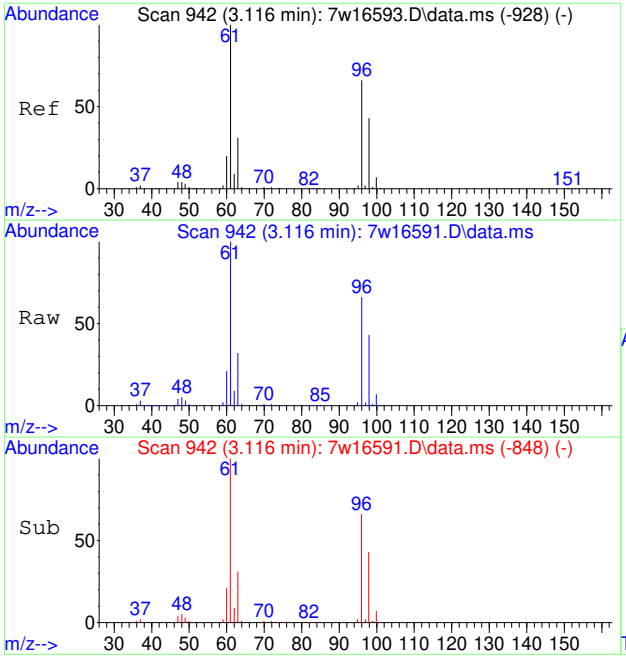


#41
METHYL ETHYL KETONE
Concen: 19.21 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 120276

Ion	Ratio	Lower	Upper
72	100		
57	38.0	20.3	37.7#
43	440.9	282.8	525.2

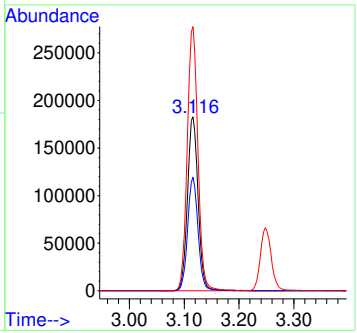


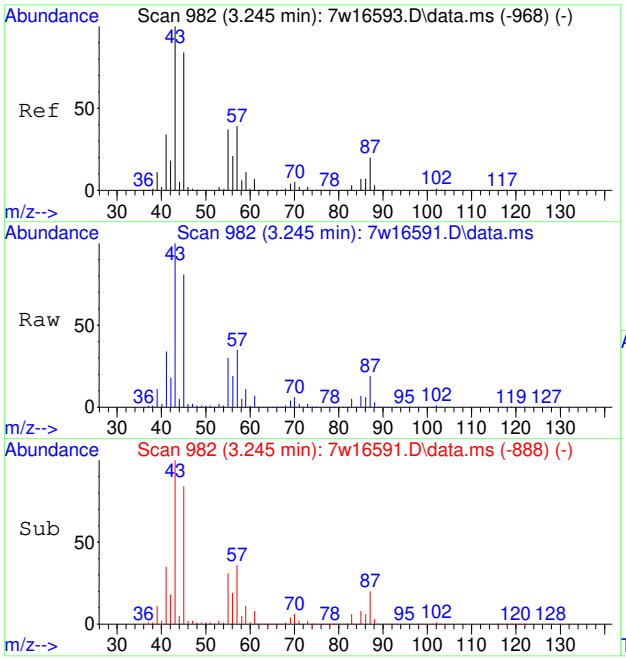


#42
CIS-1,2-DICHLOROETHENE
Concen: 19.20 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 246893

Ion	Ratio	Lower	Upper
96	100		
98	64.1	46.8	86.8
61	152.2	78.3	145.5#

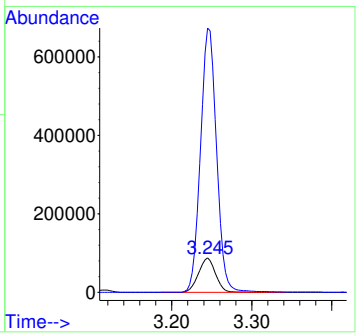


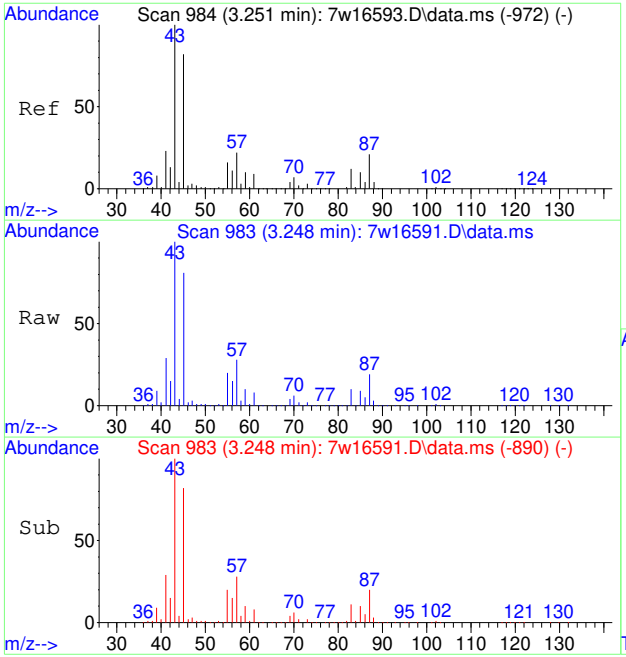


#43
DIISOPROPYL ETHER
Concen: 19.57 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 130636

Ion	Ratio	Lower	Upper
59	100		
45	725.2	532.1	988.1

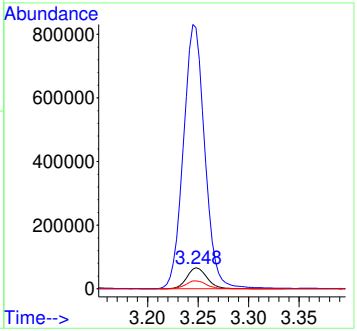


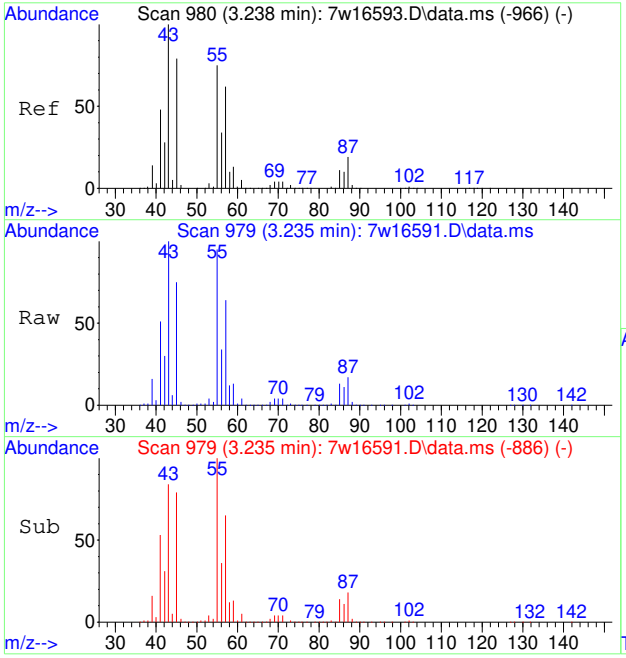


#44
ETHYL ACETATE
Concen: 19.72 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 61 Resp: 93045

Ion	Ratio	Lower	Upper
61	100		
43	1321.4	1127.5	2093.9
88	38.9	36.2	67.2

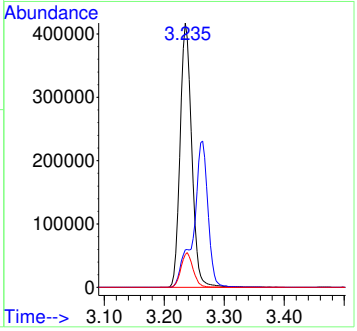


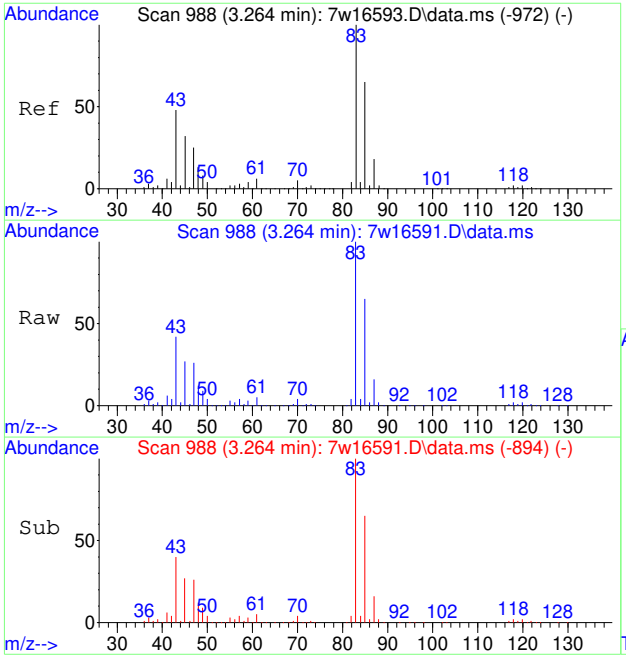


#45
METHYL ACRYLATE
Concen: 19.52 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 561273

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.2	17.0

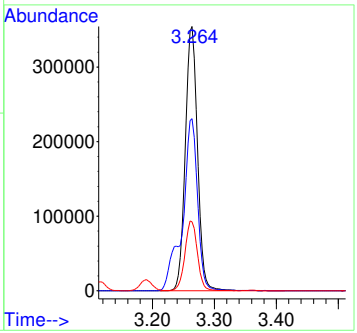


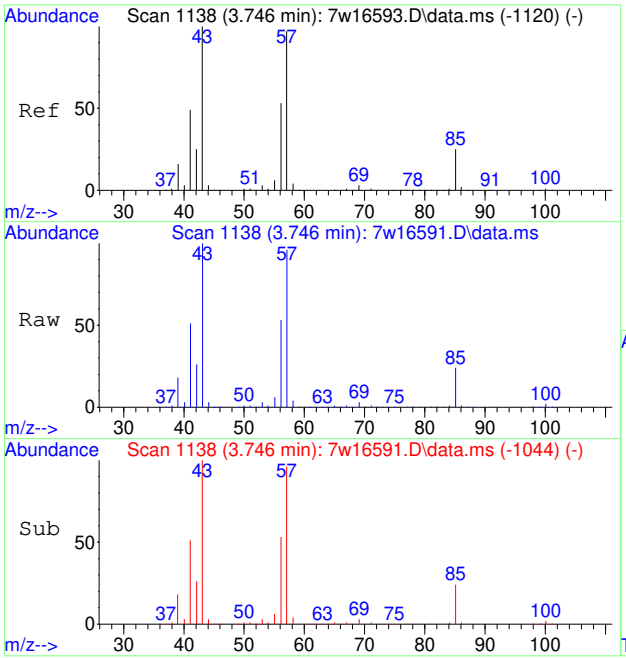


#46
CHLOROFORM
Concen: 19.05 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 484502

Ion	Ratio	Lower	Upper
83	100		
85	80.5	54.6	101.4
47	27.1	17.9	33.3

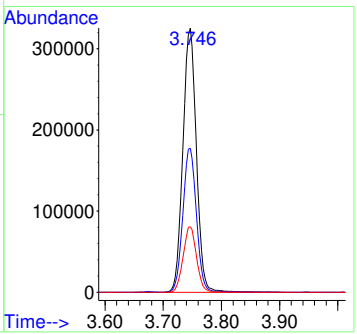


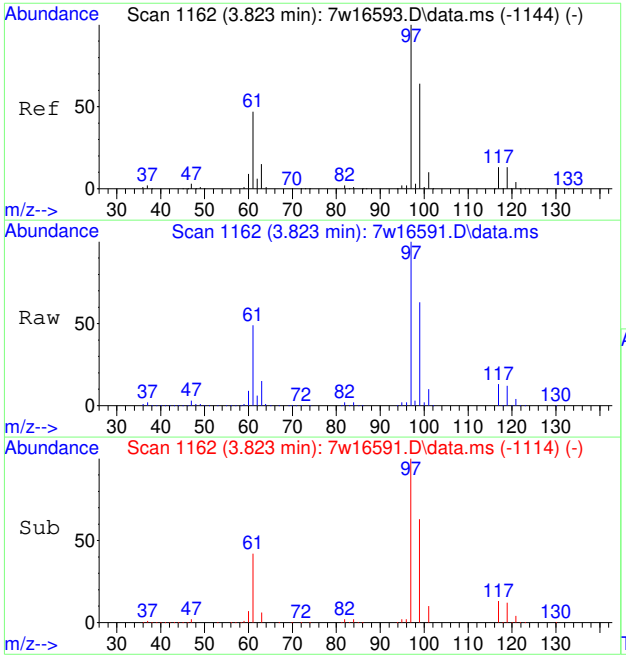


#47
2,4-DIMETHYLPENTANE
Concen: 19.82 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 525364

Ion	Ratio	Lower	Upper
57	100		
56	55.2	39.2	72.8
85	24.9	24.1	44.7

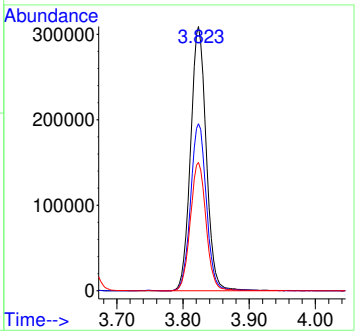


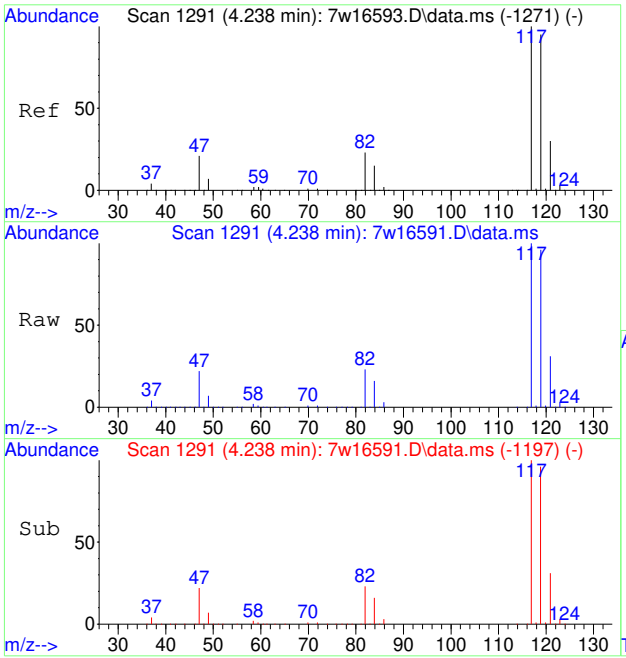


#48
1,1,1-TRICHLOROETHANE
Concen: 19.19 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 97 Resp: 508992

Ion	Ratio	Lower	Upper
97	100		
99	64.0	44.9	83.5
61	48.9	28.6	53.0

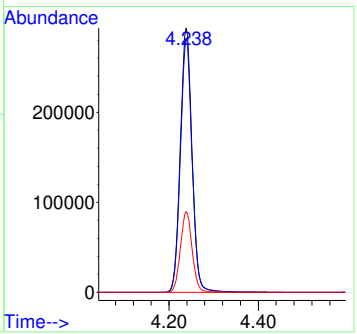


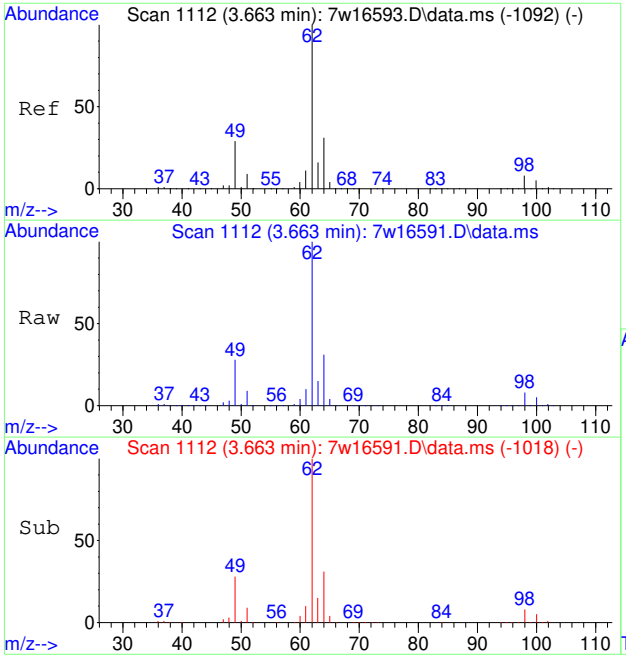


#49
CARBON TETRACHLORIDE
Concen: 18.95 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 536446

Ion	Ratio	Lower	Upper
117	100		
119	95.9	68.8	127.8
121	30.7	22.2	41.2

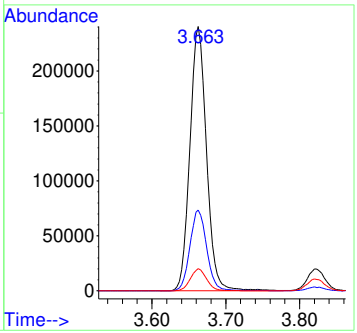


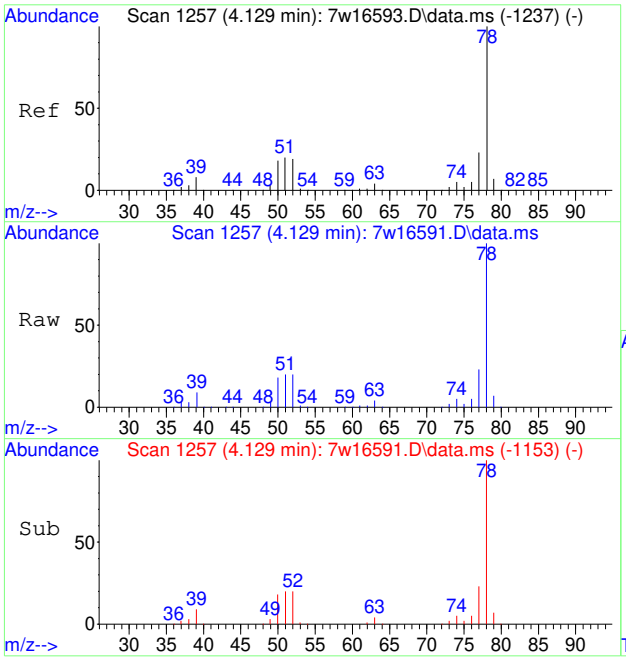


#50
1,2-DICHLOROETHANE
Concen: 18.79 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 375248

Ion	Ratio	Lower	Upper
62	100		
64	31.0	22.5	41.7
98	8.2	6.8	12.6

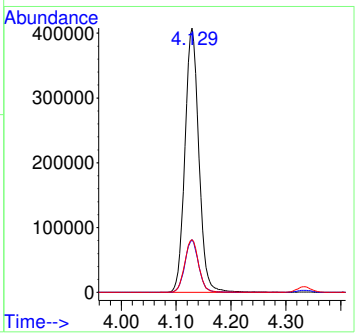


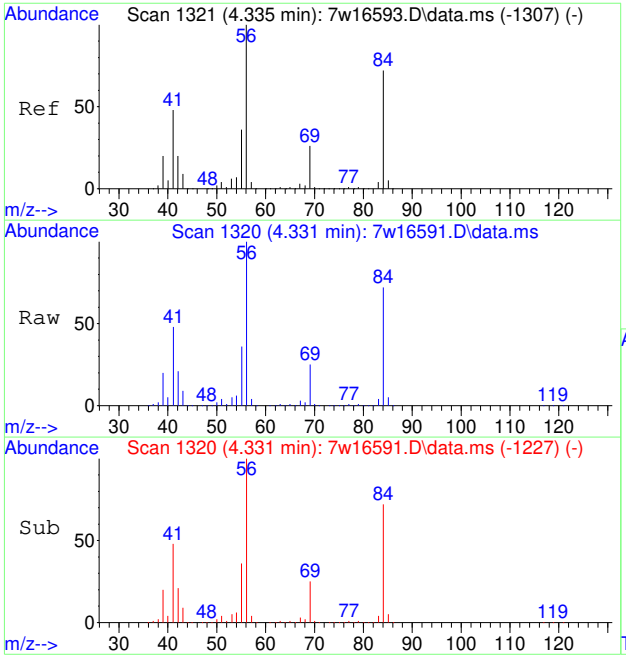


#51
BENZENE
Concen: 19.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 78 Resp: 718150

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	44.6
51	20.1	0.0	47.3

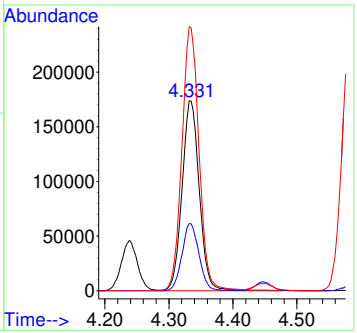


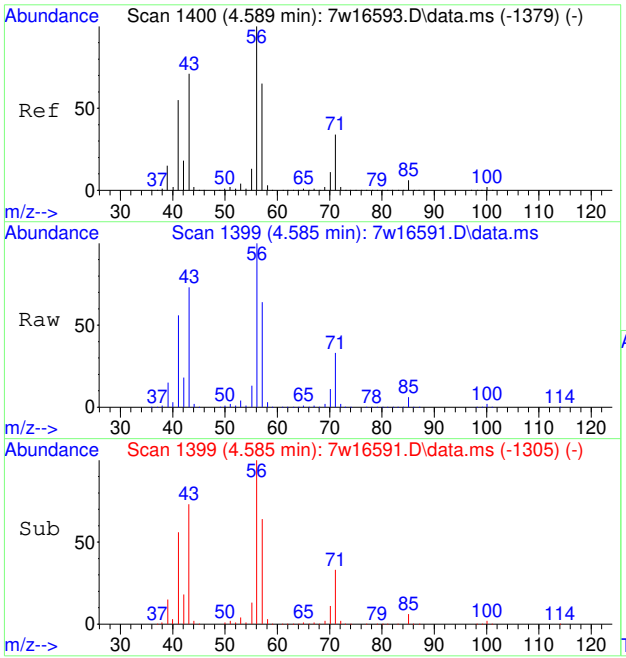


#53
CYCLOHEXANE
Concen: 19.45 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 325475

Ion	Ratio	Lower	Upper
84	100		
69	35.0	22.3	41.5
56	137.7	70.2	130.4#

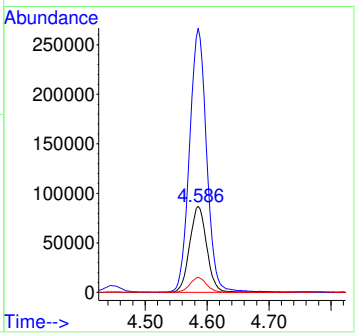


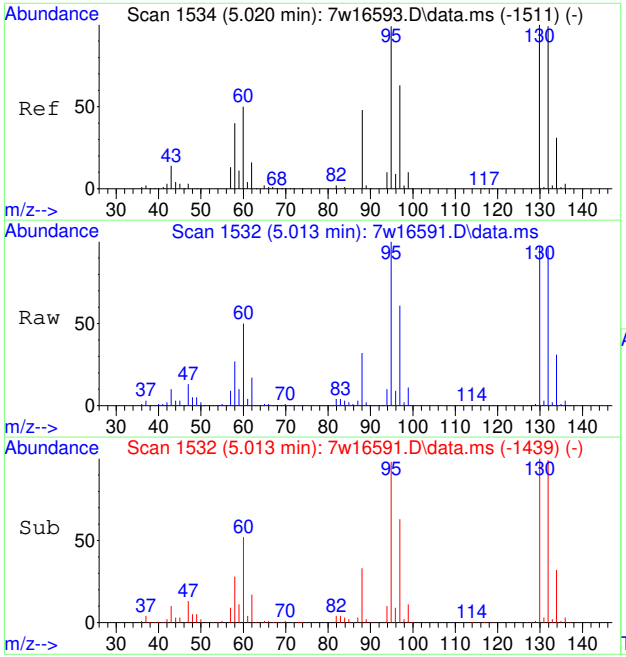


#54
2,3-DIMETHYLPENTANE
Concen: 19.60 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 71 Resp: 167011

Ion	Ratio	Lower	Upper
71	100		
56	306.1	171.4	318.4
85	17.4	12.6	23.4

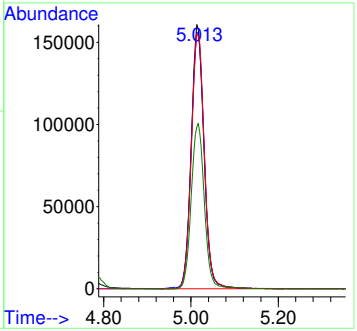


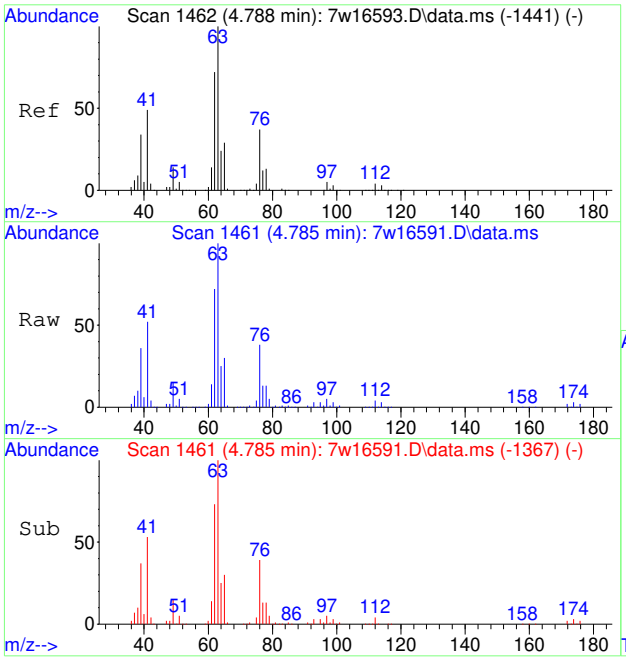


#55
TRICHLOROETHENE
Concen: 18.36 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 95 Resp: 327435

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	98.7	79.4	147.4
97	64.2	45.0	83.6

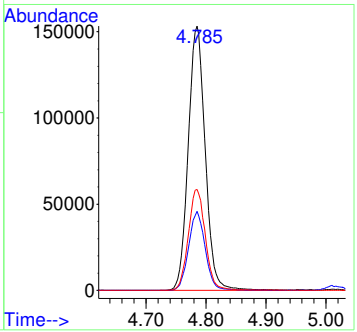


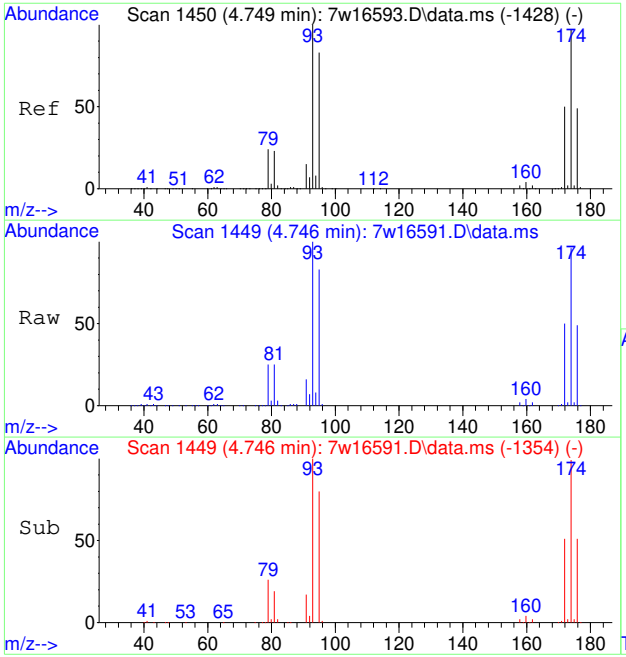


#56
1,2-DICHLOROPROPANE
Concen: 19.23 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 302257

Ion	Ratio	Lower	Upper
63	100		
65	29.4	22.6	42.0
76	38.4	31.8	59.0

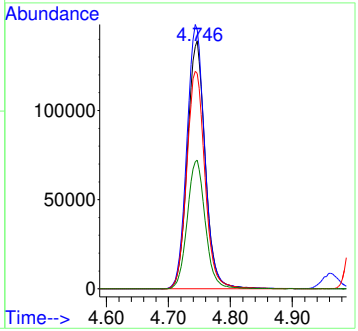


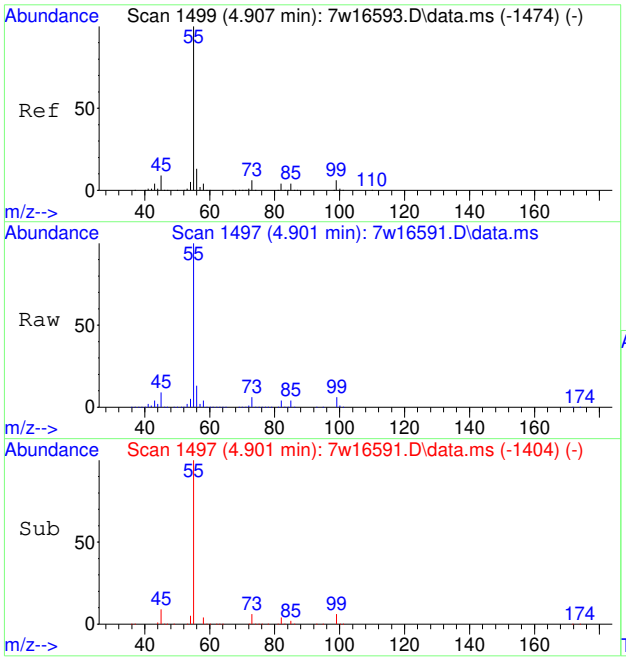


#57
DIBROMOMETHANE
Concen: 19.08 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:174 Resp: 277930

Ion	Ratio	Lower	Upper
174	100		
93	107.2	67.3	125.1
95	89.6	56.8	105.6
172	52.5	36.3	67.5

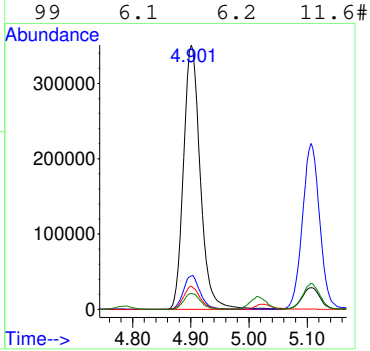


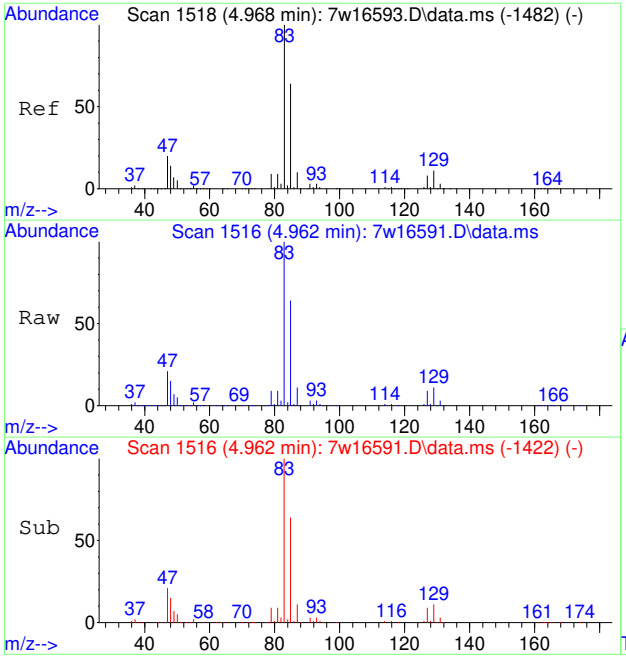


#58
ETHYL ACRYLATE
Concen: 19.73 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 703238

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	8.7	6.6	12.2
99	6.1	6.2	11.6#

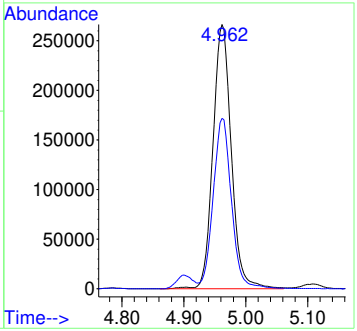


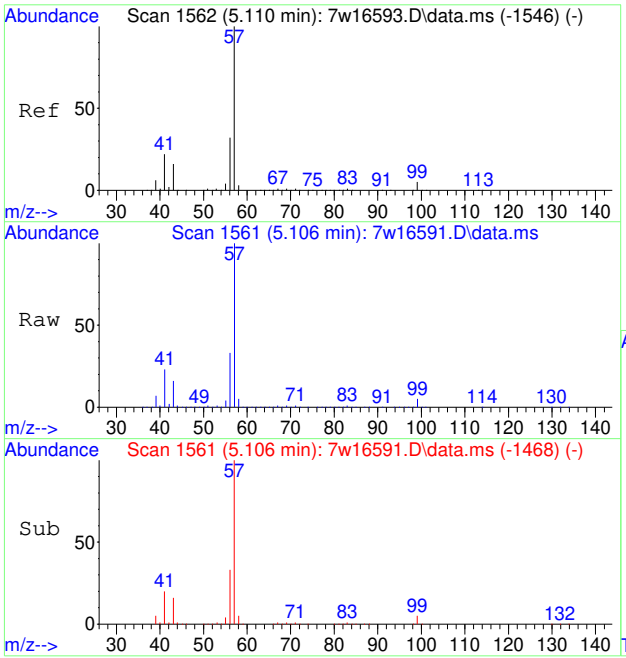


#59
BROMODICHLOROMETHANE
Concen: 18.61 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 549357

Ion	Ratio	Lower	Upper
83	100		
85	64.6	44.9	83.5

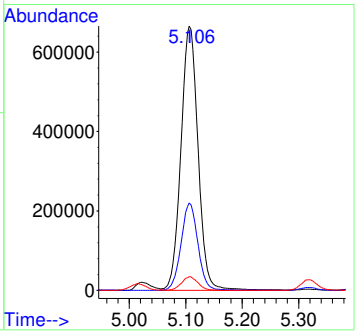


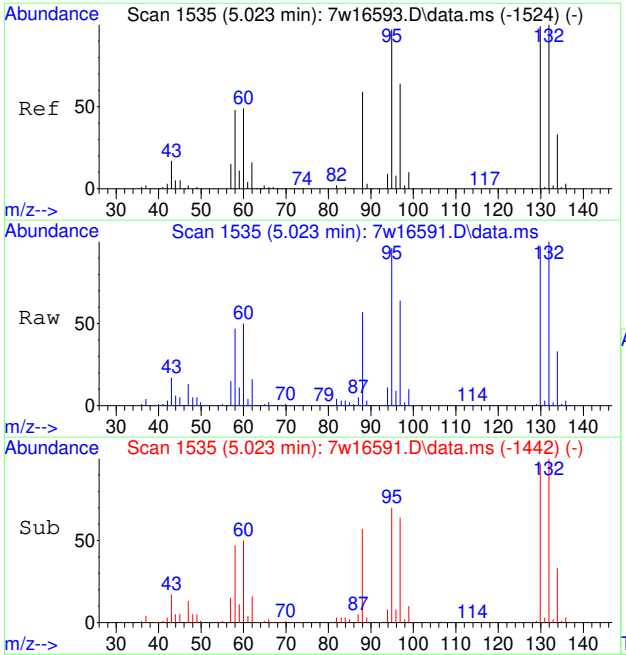


#60
2,2,4-TRIMETHYLPENTANE
Concen: 18.90 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 1404688

Ion	Ratio	Lower	Upper
57	100		
56	32.6	24.4	45.2
99	5.1	5.2	9.6#

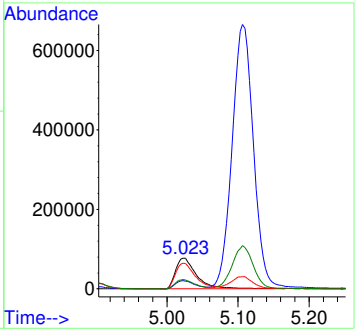


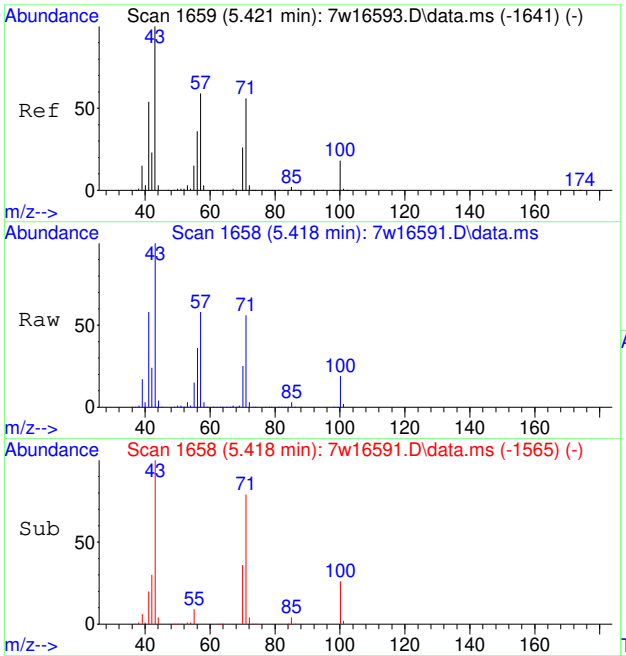


#61
1,4-DIOXANE
Concen: 18.11 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 88 Resp: 159487

Ion	Ratio	Lower	Upper
88	100		
57	24.0	13.1	24.3
58	77.6	39.1	72.5#
43	27.7	18.3	33.9

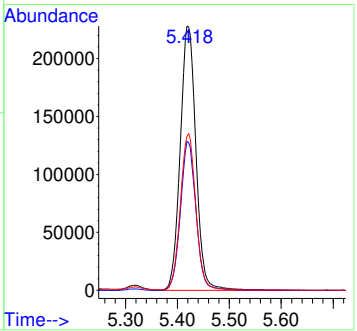


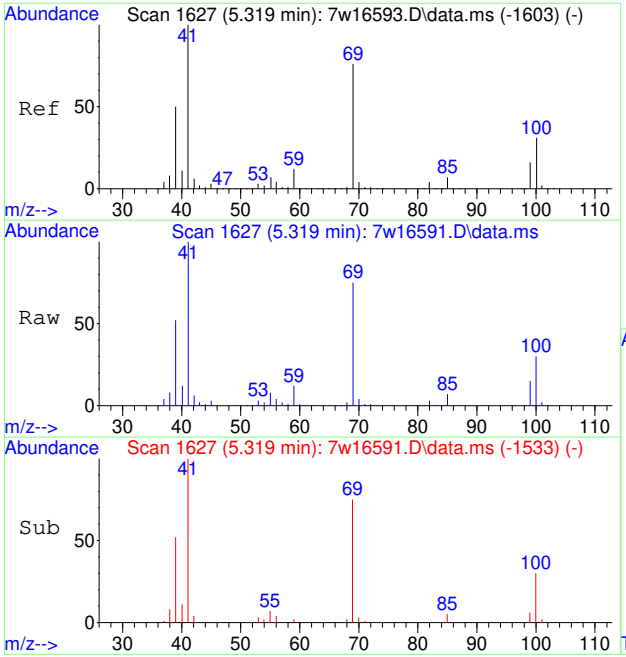


#62
HEPTANE
Concen: 19.19 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 476905

Ion	Ratio	Lower	Upper
43	100		
71	55.8	45.0	83.6
57	58.6	37.2	69.0

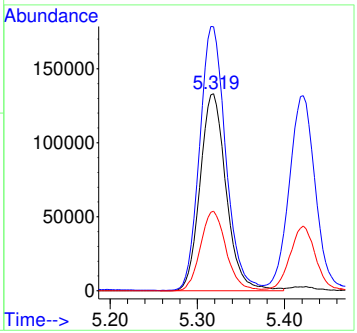


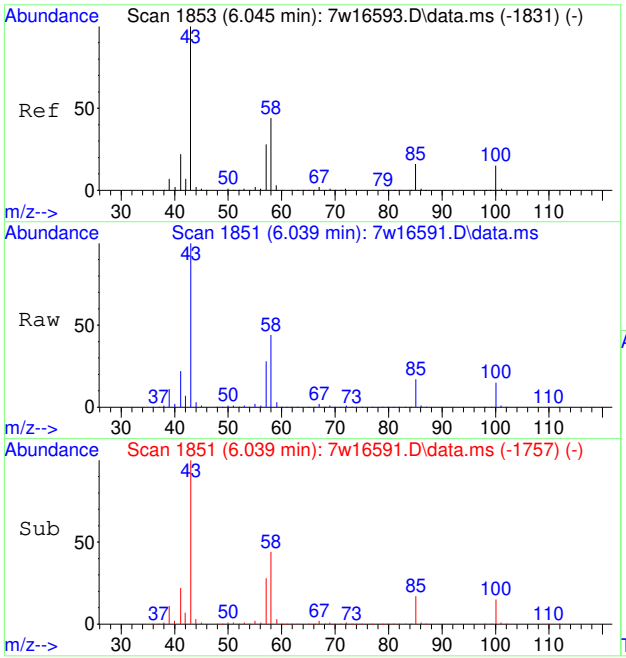


#63
METHYL METHACRYLATE
Concen: 19.41 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 276982

Ion	Ratio	Lower	Upper
69	100		
41	133.5	84.3	156.5
100	39.8	30.8	57.2

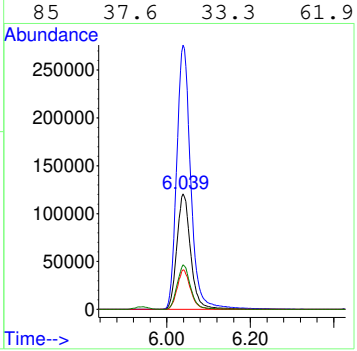


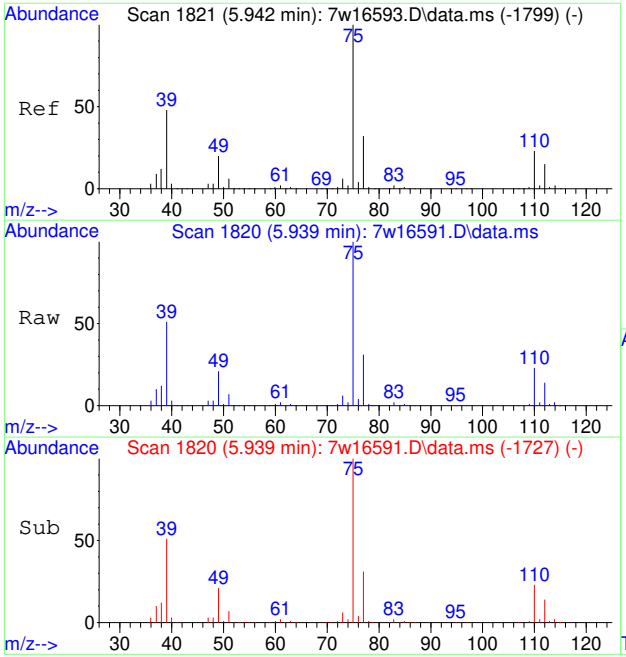


#64
METHYL ISOBUTYL KETONE
Concen: 19.00 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 278396

Ion	Ratio	Lower	Upper
58	100		
43	0.0	193.8	360.0#
100	33.4	32.8	60.8
85	37.6	33.3	61.9

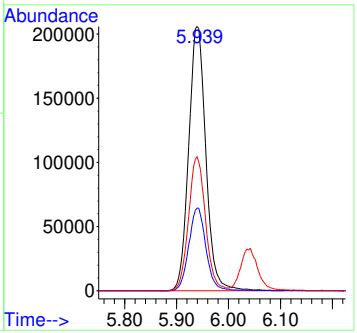


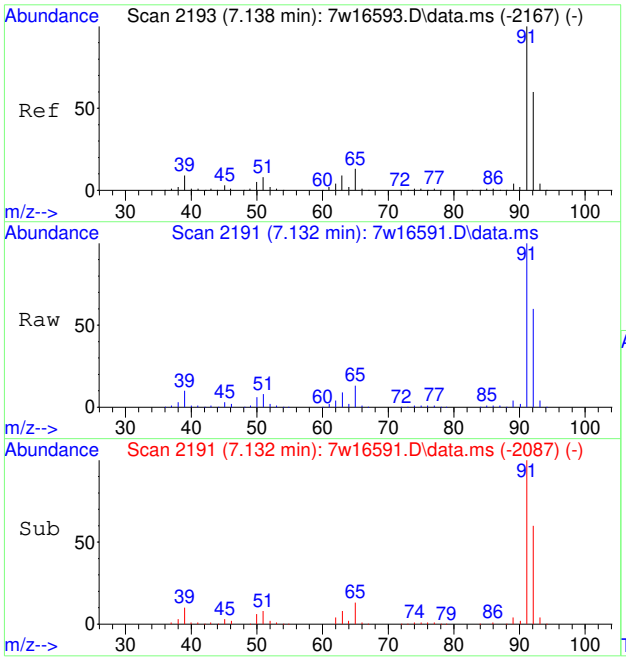


#65
CIS-1,3-DICHLOROPROPENE
Concen: 19.04 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 474515

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	40.8
39	50.0	38.5	71.5

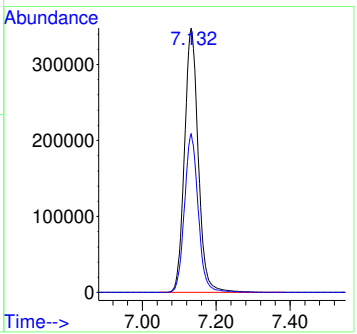


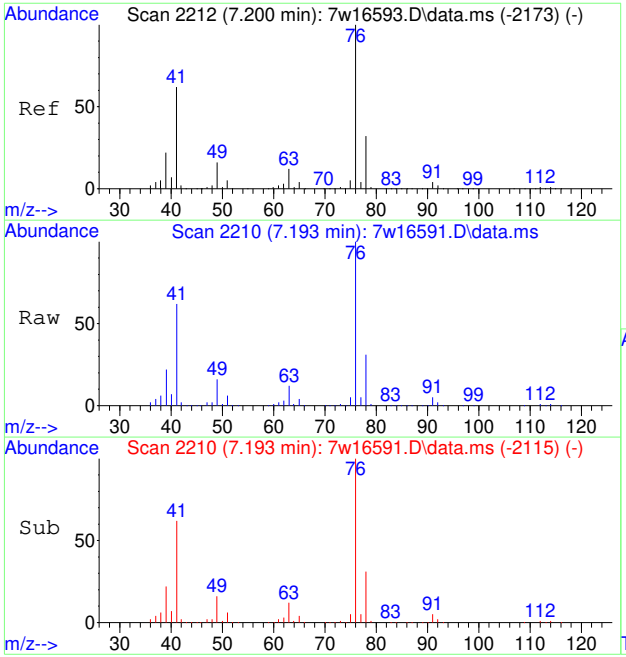


#66
TOLUENE
Concen: 19.86 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 898243

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

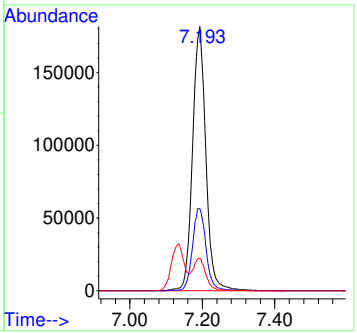


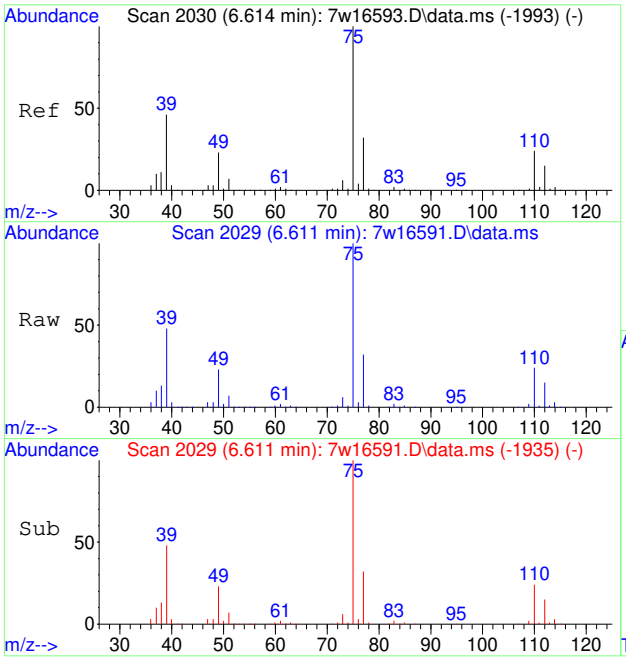


#67
1,3-DICHLOROPROPANE
Concen: 19.84 PPBV
RT: 7.193 min Scan# 2210
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 463972

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	12.7	8.0	14.8

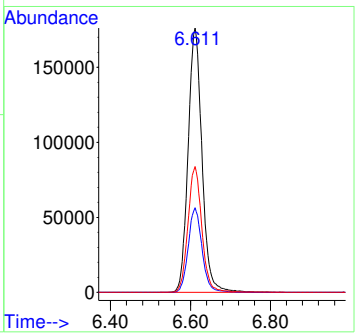


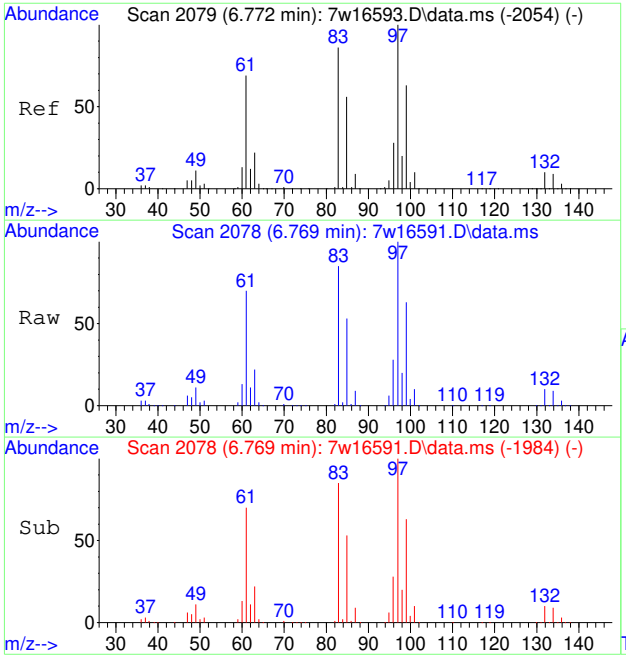


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 18.27 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 425650

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.5	41.7
39	47.6	37.2	69.0

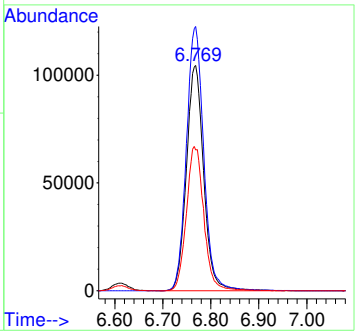


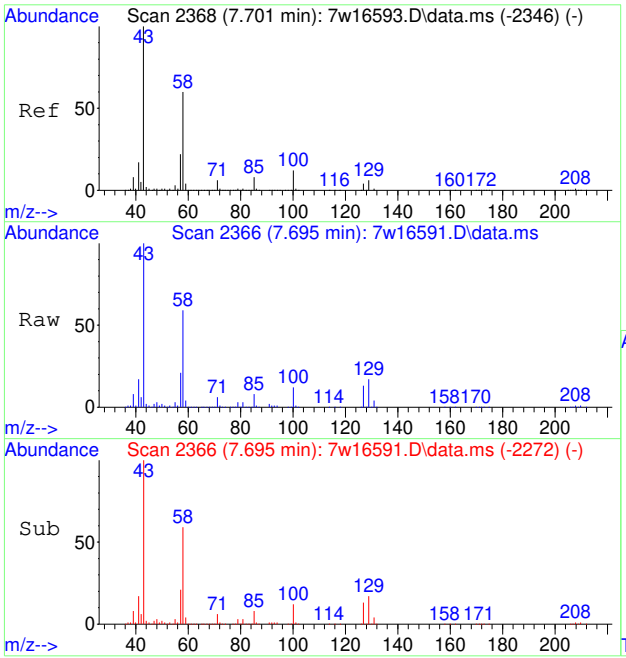


#69
1,1,2-TRICHLOROETHANE
Concen: 19.57 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 262141

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	64.8	45.5	84.5

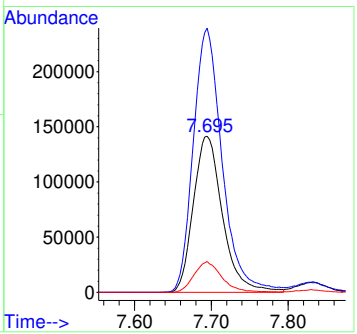


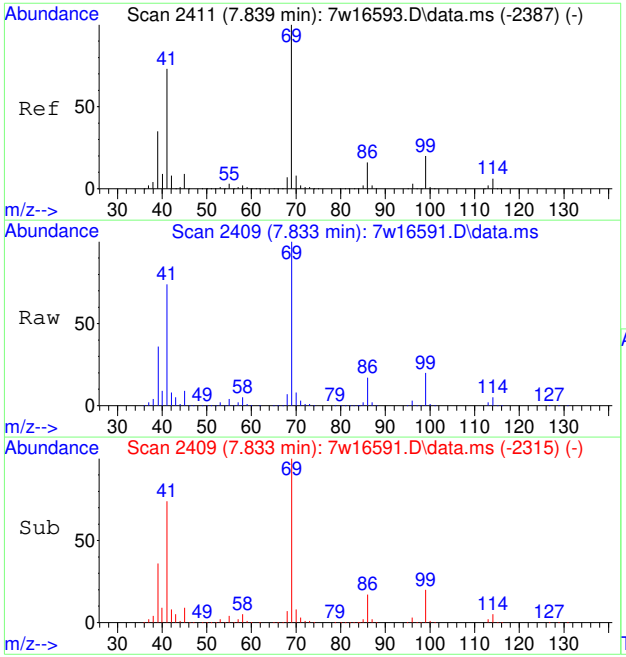


#70
2-HEXANONE
Concen: 19.43 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 374273

Ion	Ratio	Lower	Upper
58	100		
43	167.3	141.7	263.3
100	18.8	18.9	35.1#

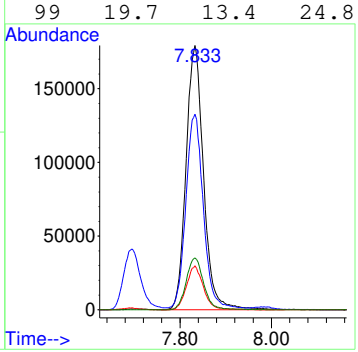


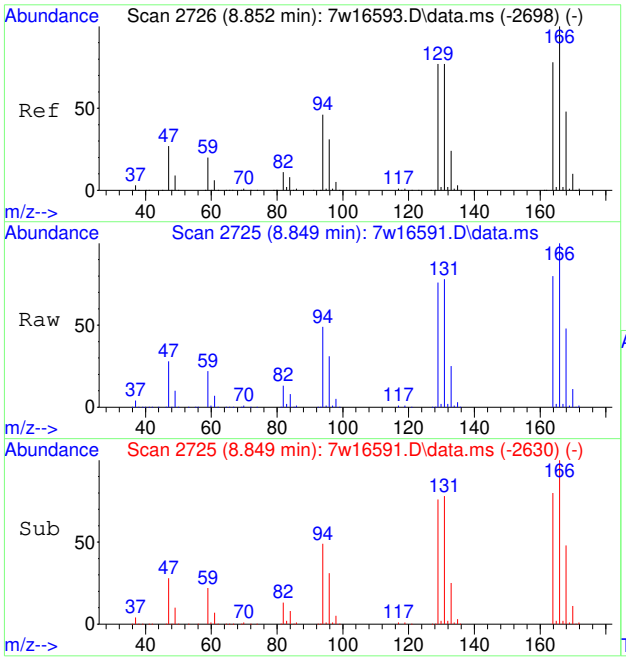


#71
ETHYL METHACRYLATE
Concen: 19.46 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 477947

Ion	Ratio	Lower	Upper
69	100		
41	74.6	49.3	91.6
86	16.2	11.6	21.6
99	19.7	13.4	24.8

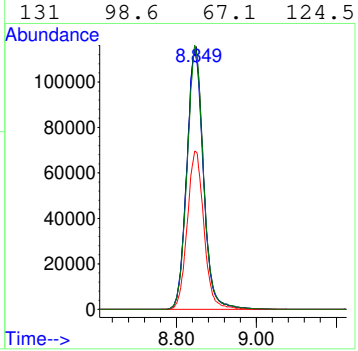


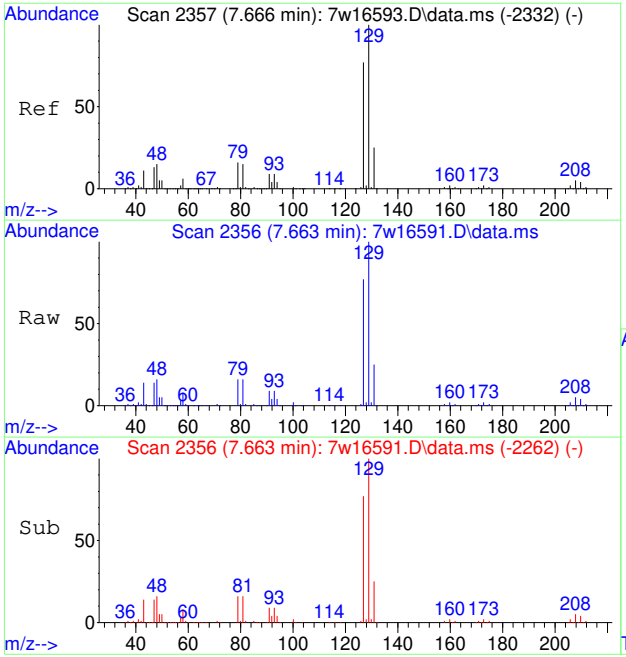


#72
TETRACHLOROETHENE
Concen: 20.14 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:164 Resp: 335304

Ion	Ratio	Lower	Upper
164	100		
129	98.3	69.7	129.5
168	60.2	43.4	80.6
131	98.6	67.1	124.5

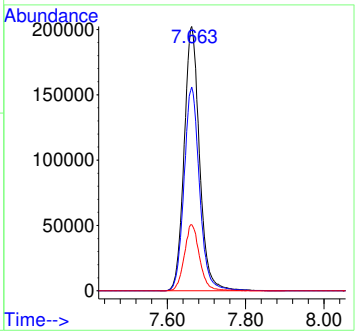


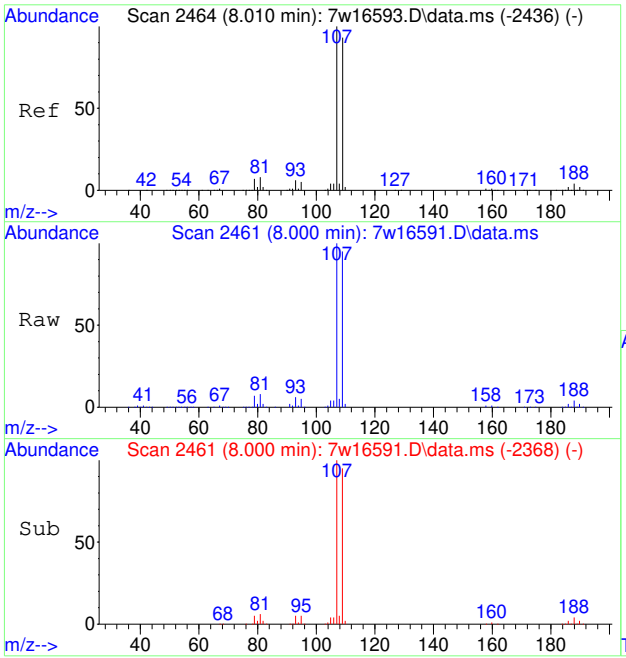


#73
DIBROMOCHLOROMETHANE
Concen: 19.81 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:129 Resp: 551638

Ion	Ratio	Lower	Upper
129	100		
127	77.6	53.0	98.4
131	24.9	16.9	31.3

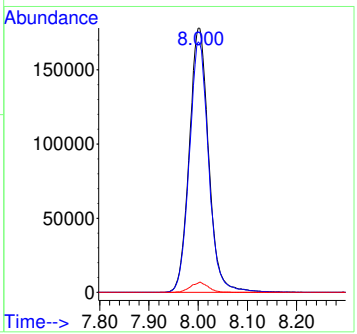


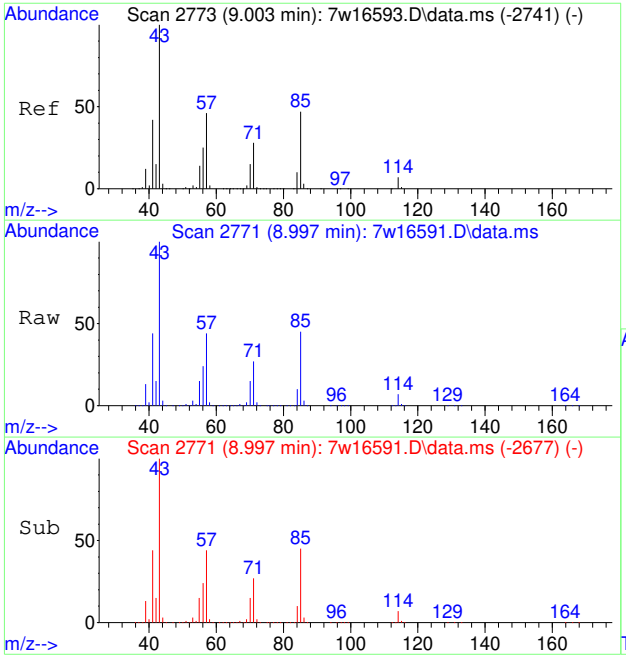


#74
1,2-DIBROMOETHANE
Concen: 20.42 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:107 Resp: 487978

Ion	Ratio	Lower	Upper
107	100		
109	94.6	65.7	122.1
188	3.6	2.4	4.4

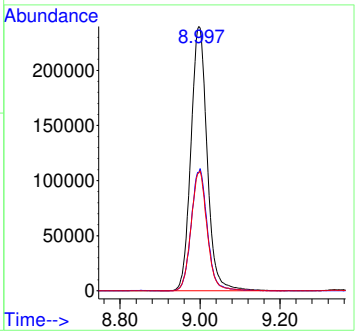


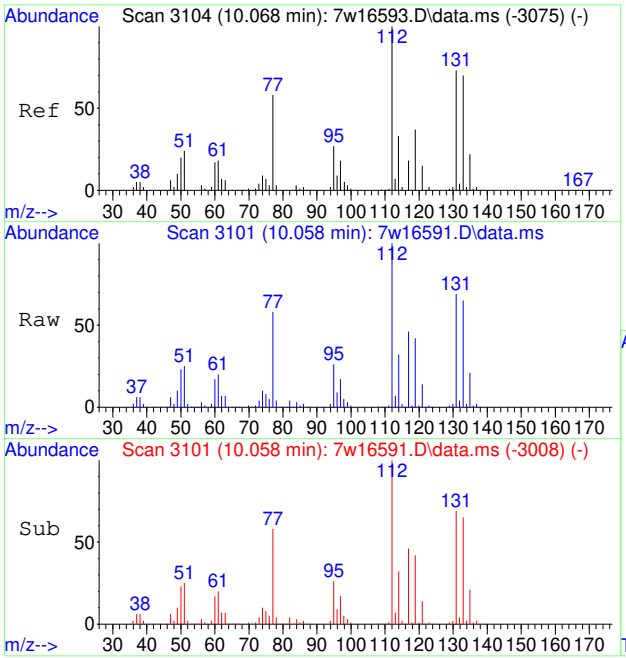


#75
OCTANE
Concen: 19.89 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 676810

Ion	Ratio	Lower	Upper
43	100		
85	45.8	36.5	67.9
57	44.8	27.6	51.2

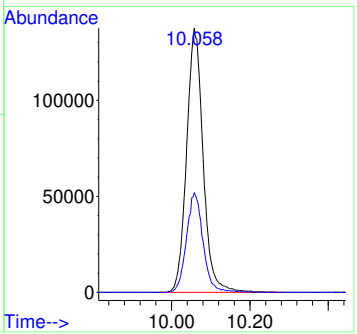


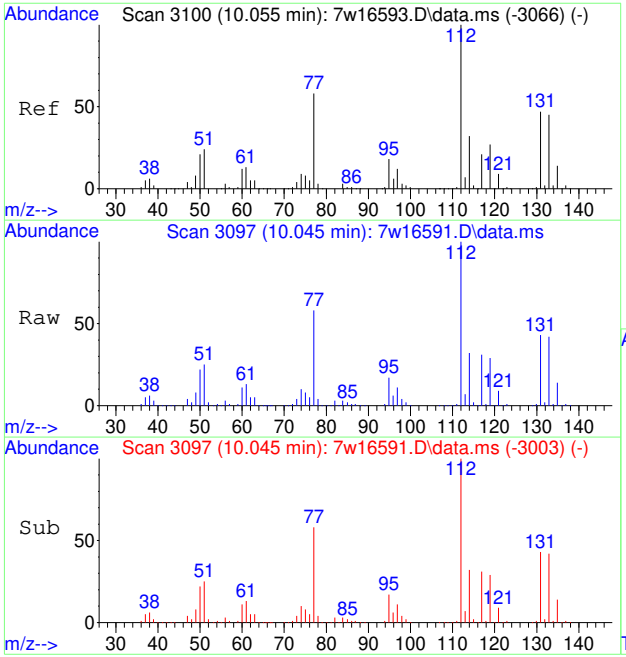


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.28 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:131 Resp: 402558

Ion	Ratio	Lower	Upper
131	100		
95	37.9	23.7	43.9

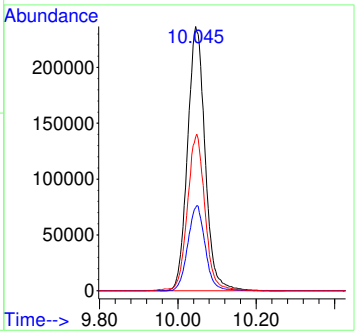


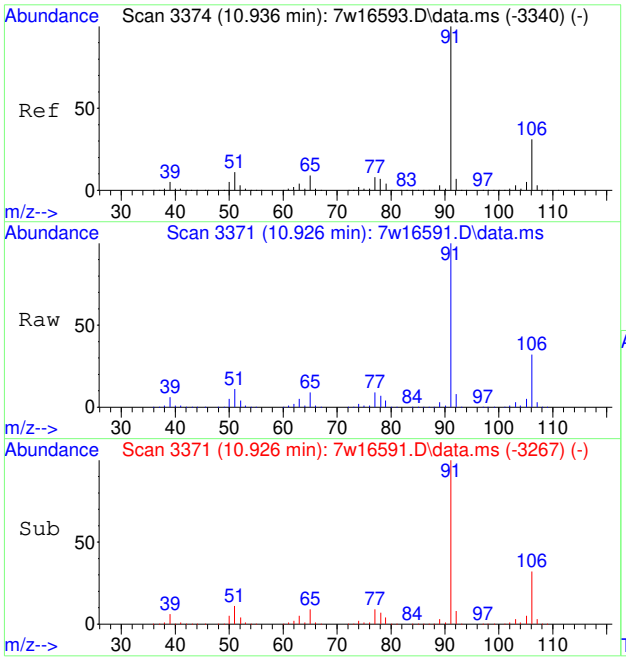


#78
CHLOROBENZENE
Concen: 20.26 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:112 Resp: 735731

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.4	34.4	63.8

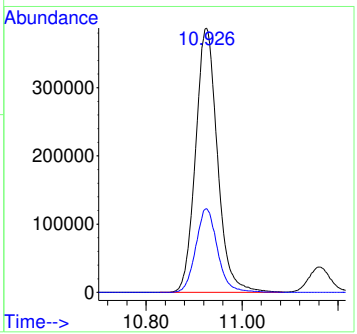


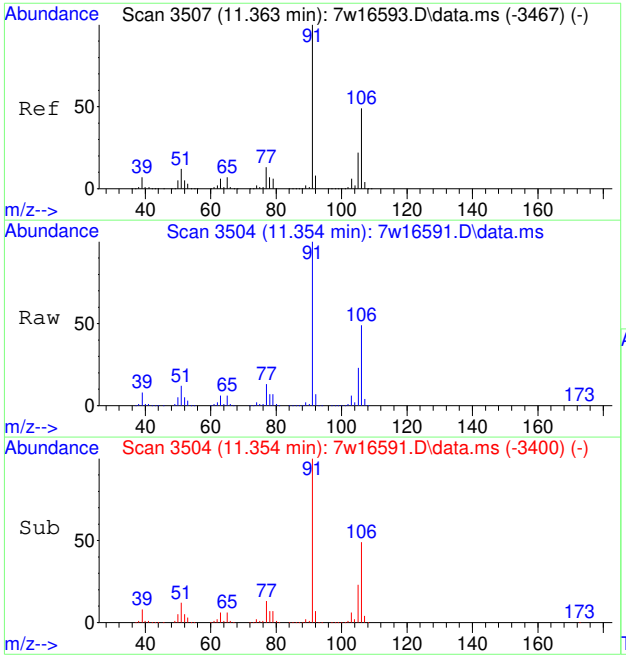


#79
ETHYLBENZENE
Concen: 20.44 PPBV
RT: 10.926 min Scan# 3371
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1222868

Ion	Ratio	Lower	Upper
91	100		
106	31.6	2.8	62.8

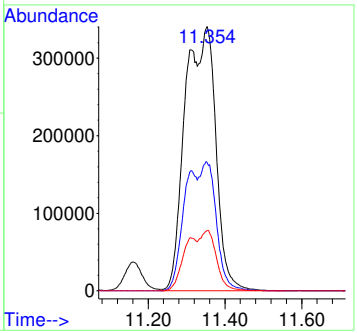


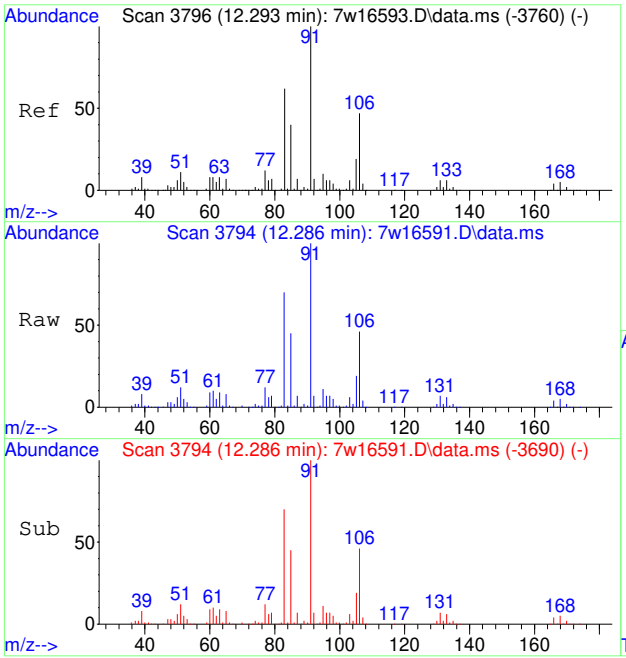


#80
M,P-XYLENE
Concen: 39.40 PPBV
RT: 11.354 min Scan# 3504
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1892381

Ion	Ratio	Lower	Upper
91	100		
106	27.4	0.0	58.7
105	12.7	0.0	43.2

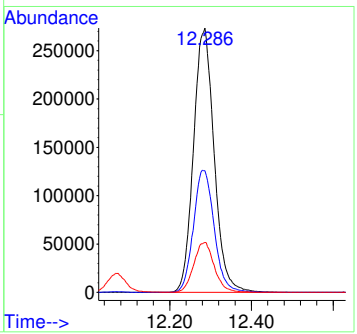


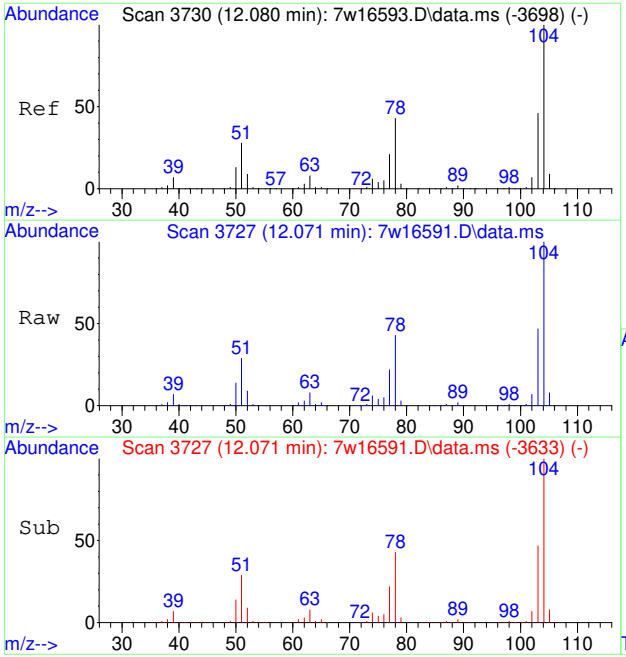


#81
O-XYLENE
Concen: 20.37 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 959093

Ion	Ratio	Lower	Upper
91	100		
106	46.0	34.1	63.3
105	18.8	14.6	27.2

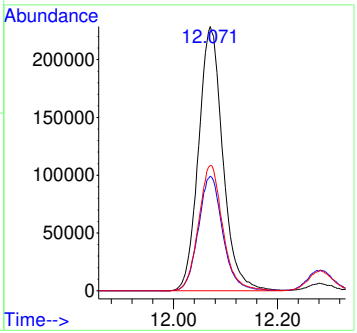


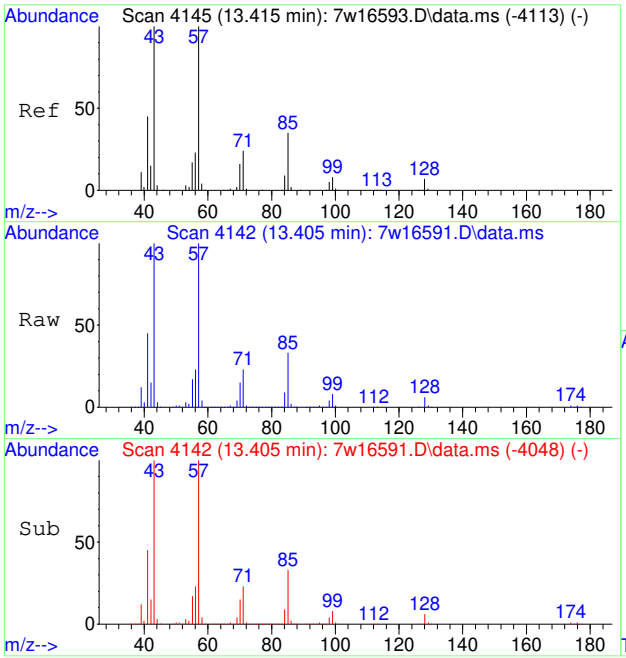


#82
STYRENE
Concen: 20.29 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:104 Resp: 744213

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	47.3	33.2	61.7

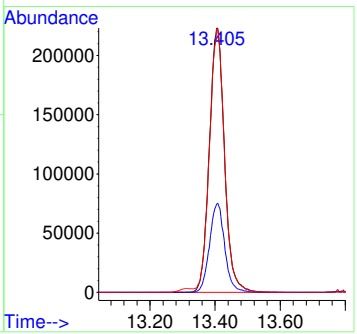


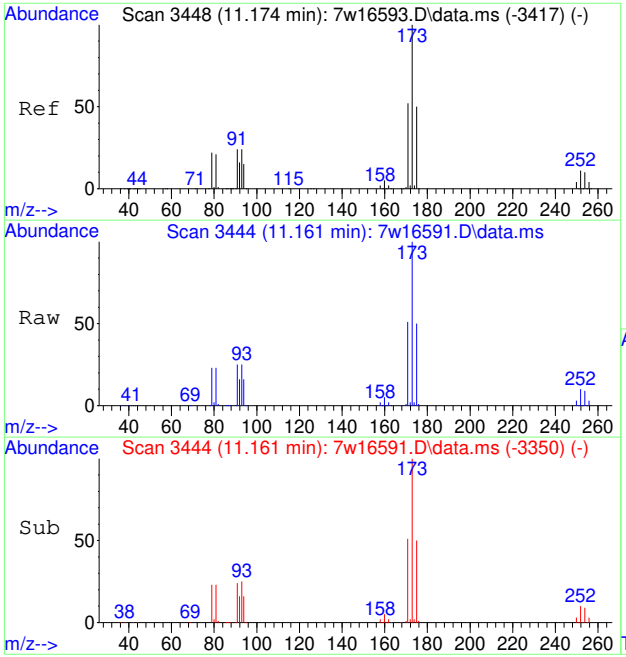


#83
NONANE
Concen: 20.03 PPBV
RT: 13.405 min Scan# 4142
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 723418

Ion	Ratio	Lower	Upper
43	100		
85	33.6	27.6	51.2
57	99.4	56.4	104.7

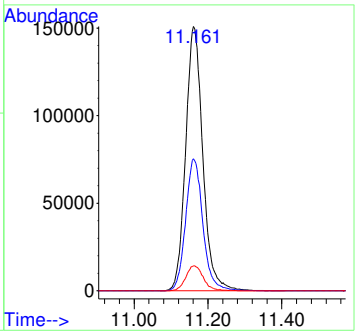


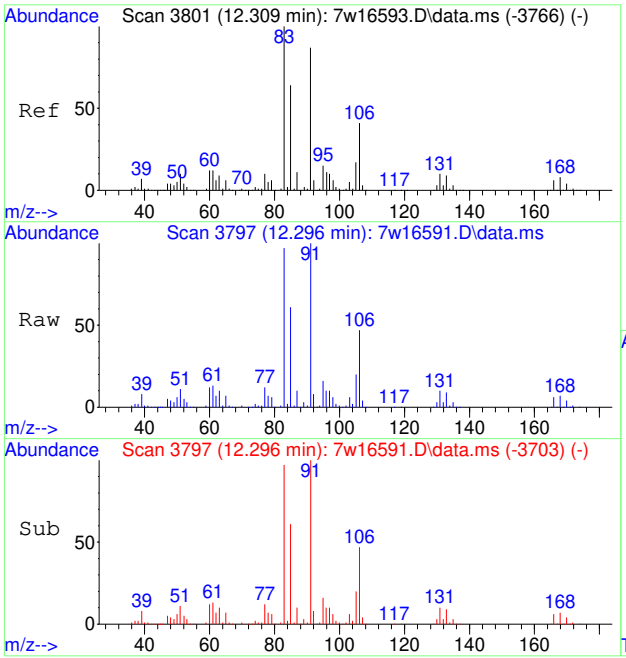


#84
BROMOFORM
Concen: 20.35 PPBV
RT: 11.161 min Scan# 3444
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:173 Resp: 487585

Ion	Ratio	Lower	Upper
173	100		
175	50.2	33.0	61.4
254	9.8	5.9	10.9

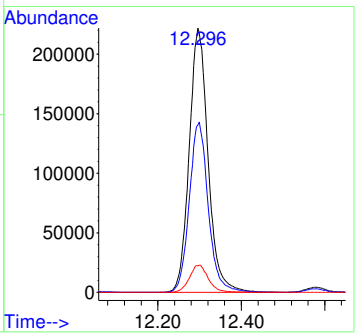


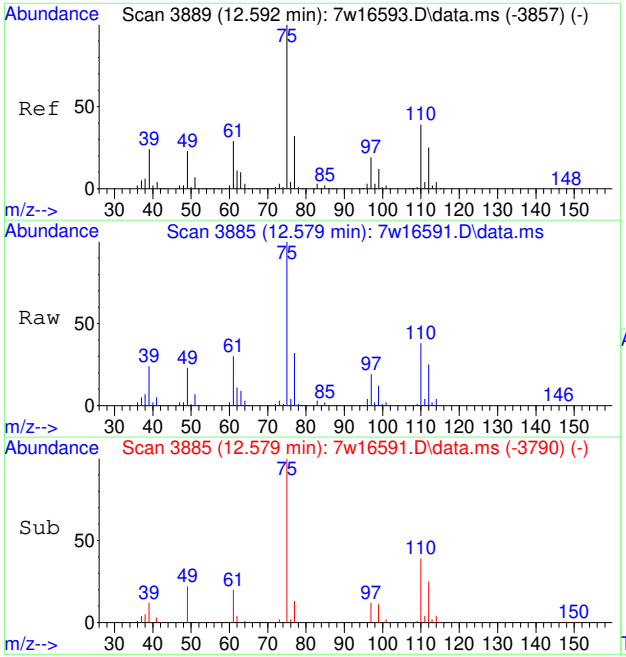


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 20.31 PPBV
RT: 12.296 min Scan# 3797
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 696701

Ion	Ratio	Lower	Upper
83	100		
85	64.7	44.6	82.8
131	10.4	8.0	14.8

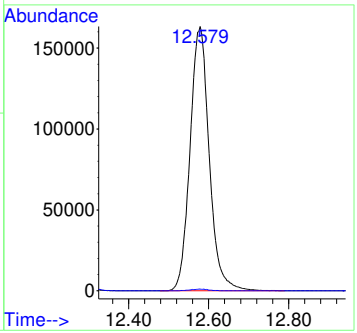


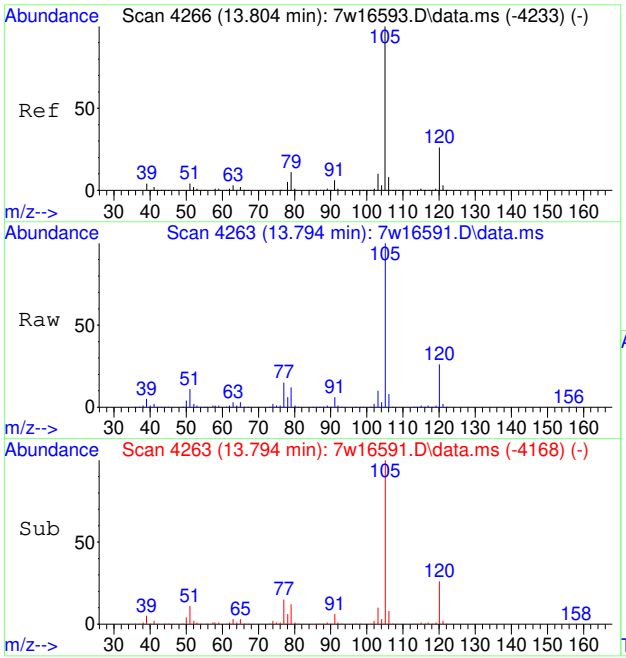


#86
1,2,3-TRICHLOROPROPANE
Concen: 20.17 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 544148

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

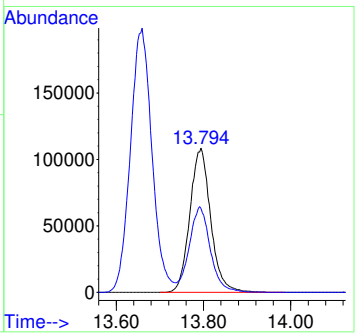


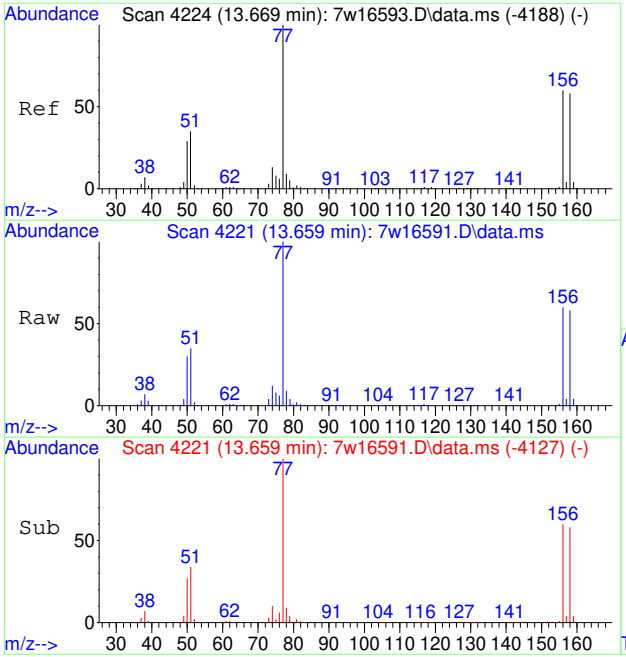


#88
ISOPROPYLBENZENE
Concen: 19.98 PPBV
RT: 13.794 min Scan# 4263
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 360209

Ion	Ratio	Lower	Upper
120	100		
77	59.8	36.0	67.0

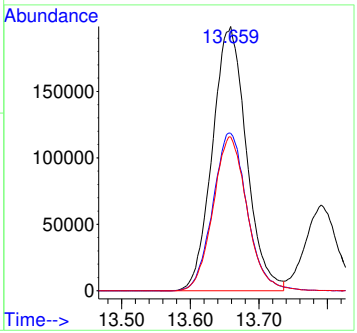


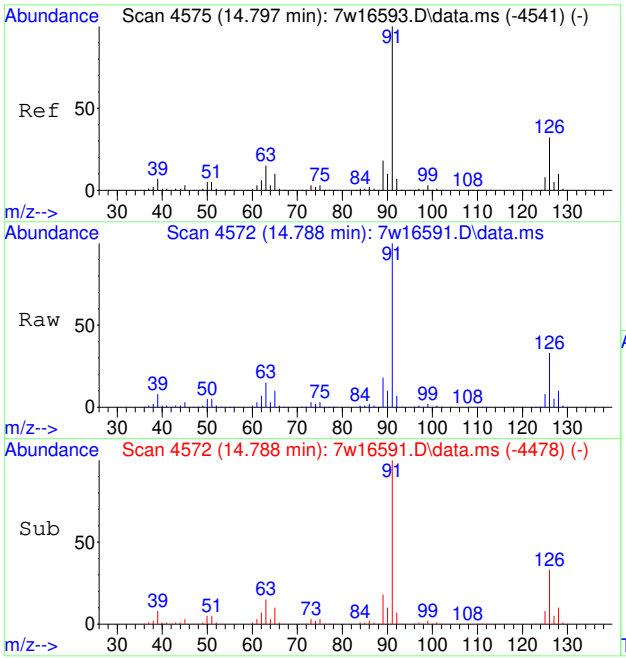


#89
BROMOBENZENE
Concen: 20.06 PPBV
RT: 13.659 min Scan# 4221
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 77 Resp: 684288

Ion	Ratio	Lower	Upper
77	100		
156	60.4	57.9	107.5
158	58.5	55.7	103.5

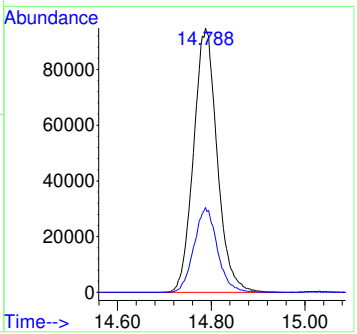


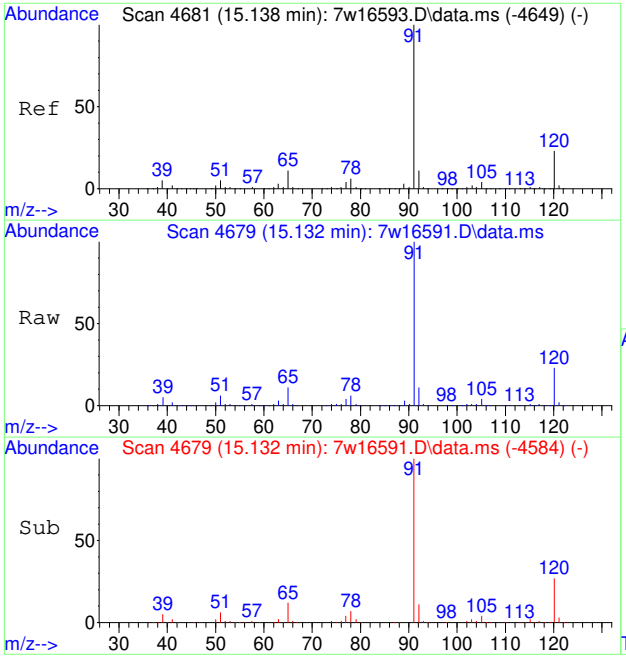


#90
2-CHLOROTOLUENE
Concen: 19.42 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:126 Resp: 331208

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.7	42.1

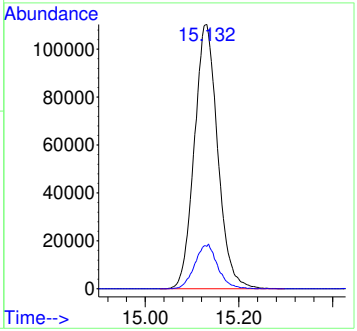


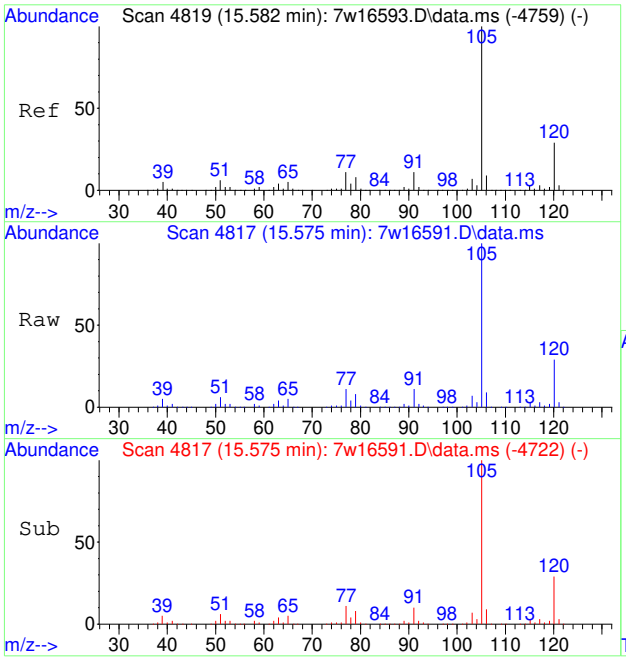


#91
N-PROPYLBENZENE
Concen: 19.58 PPBV
RT: 15.132 min Scan# 4679
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 382520

Ion	Ratio	Lower	Upper
120	100		
105	16.6	10.6	19.6

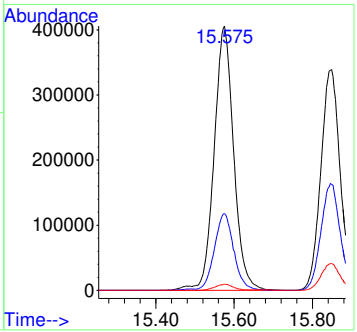


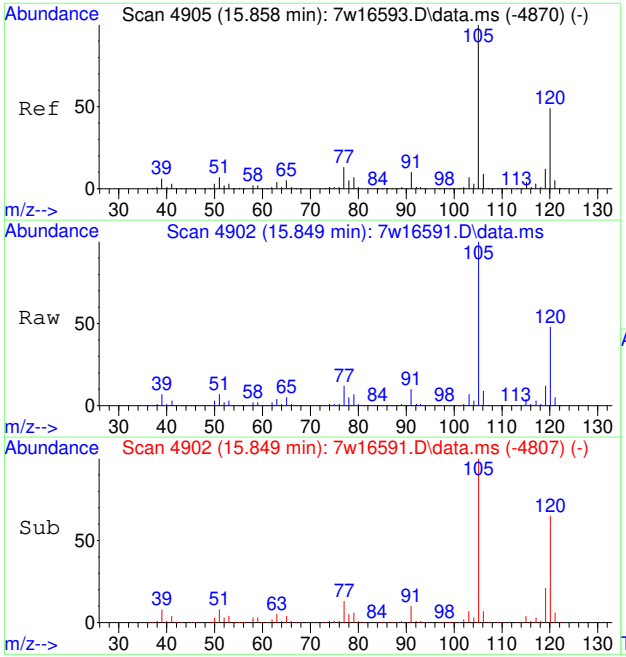


#92
4-ETHYLTOLUENE
Concen: 19.94 PPBV
RT: 15.575 min Scan# 4817
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1412222

Ion	Ratio	Lower	Upper
105	100		
120	29.2	21.8	40.4
119	2.2	1.7	3.1

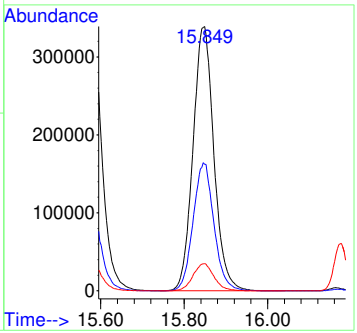


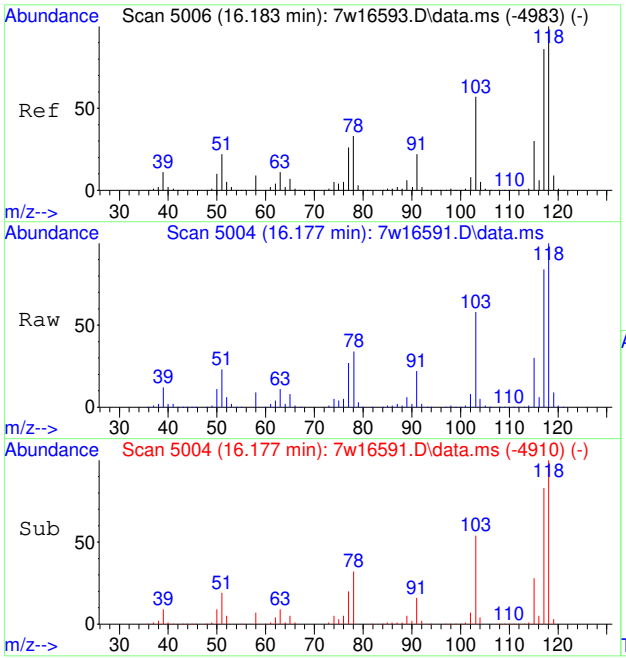


#93
1,3,5-TRIMETHYLBENZENE
Concen: 19.94 PPBV
RT: 15.849 min Scan# 4902
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1177558

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.4	7.5	13.9

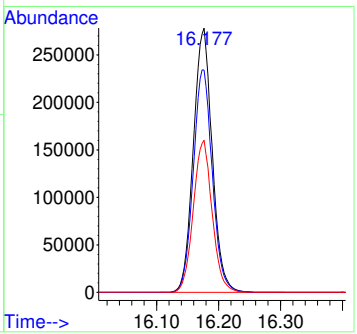


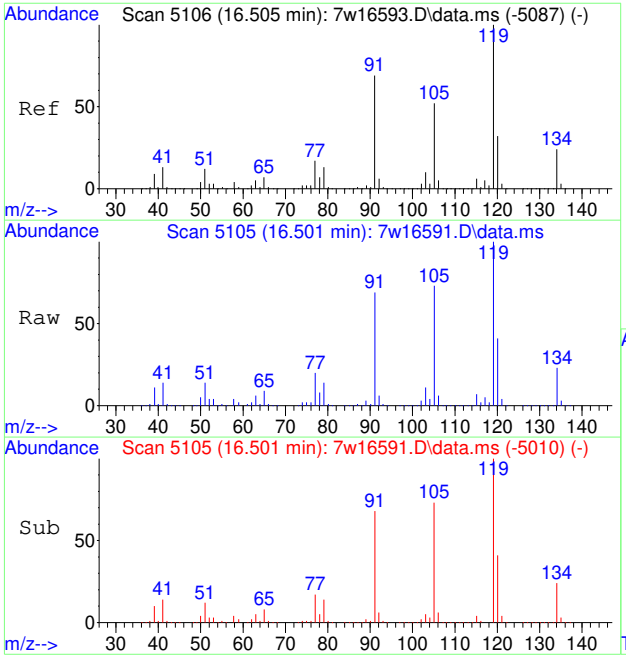


#94
ALPHA-METHYLSTYRENE
Concen: 19.51 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:118 Resp: 587843

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	57.5	36.2	67.2

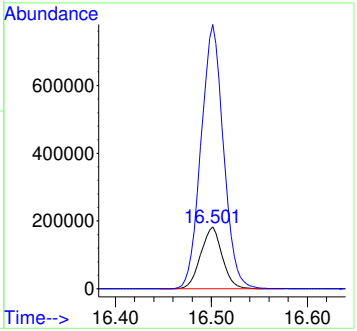


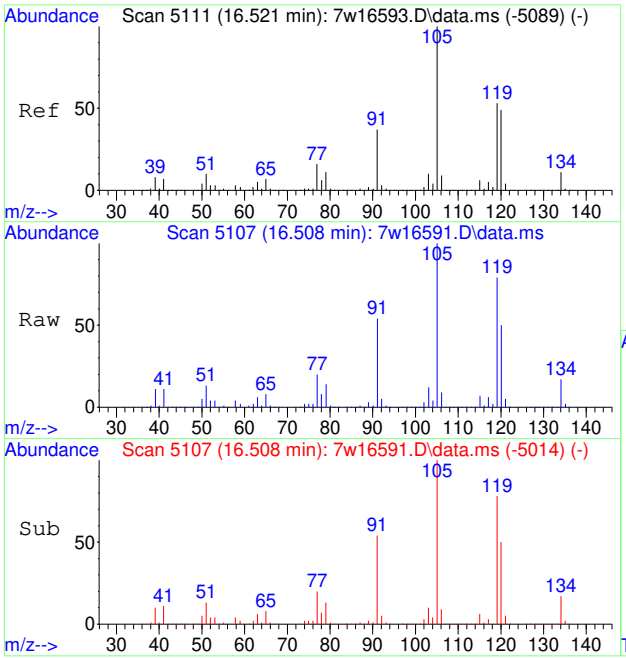


#95
TERT-BUTYLBENZENE
Concen: 19.96 PPBV
RT: 16.501 min Scan# 5105
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 284215

Ion	Ratio	Lower	Upper
134	100		
119	447.3	307.9	571.7

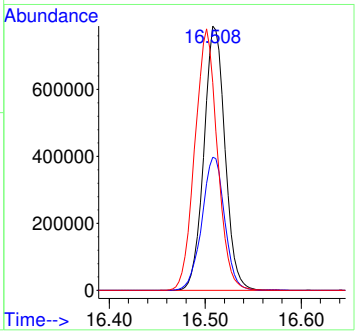


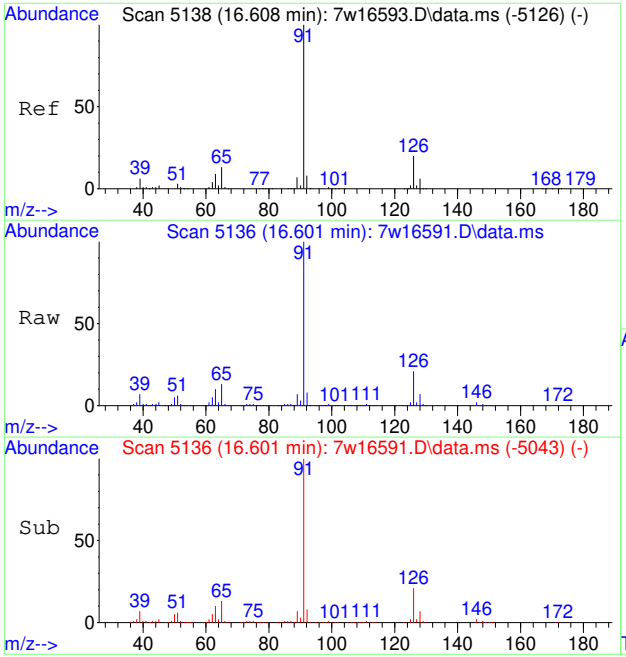


#96
1,2,4-TRIMETHYLBENZENE
Concen: 20.20 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1206100

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	105.4	78.0	144.8

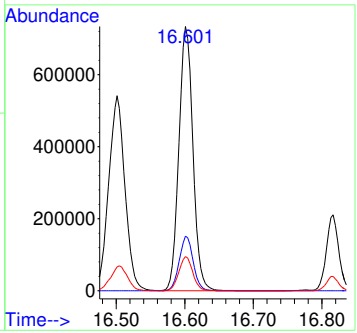


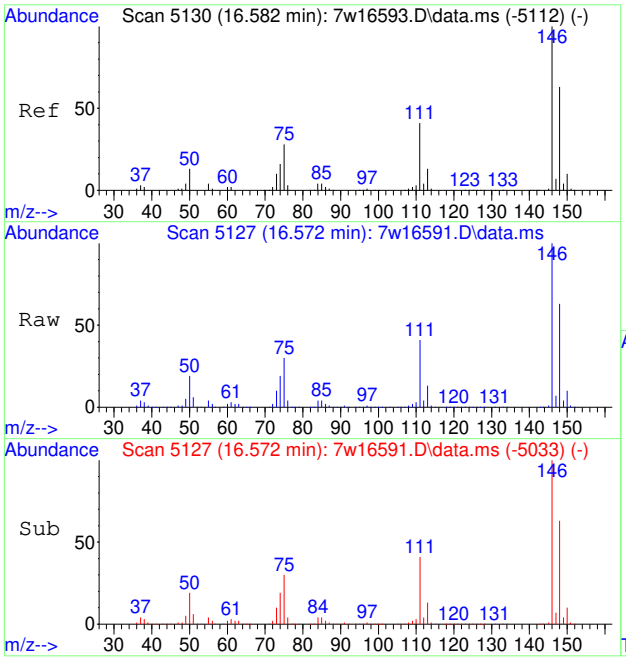


#97
BENZYL CHLORIDE
Concen: 20.31 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1043995

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	12.9	7.3	13.7

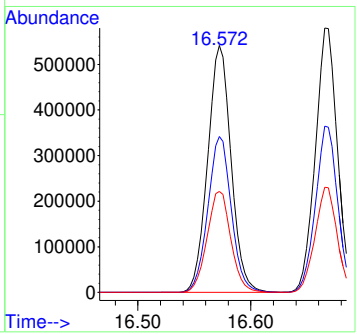


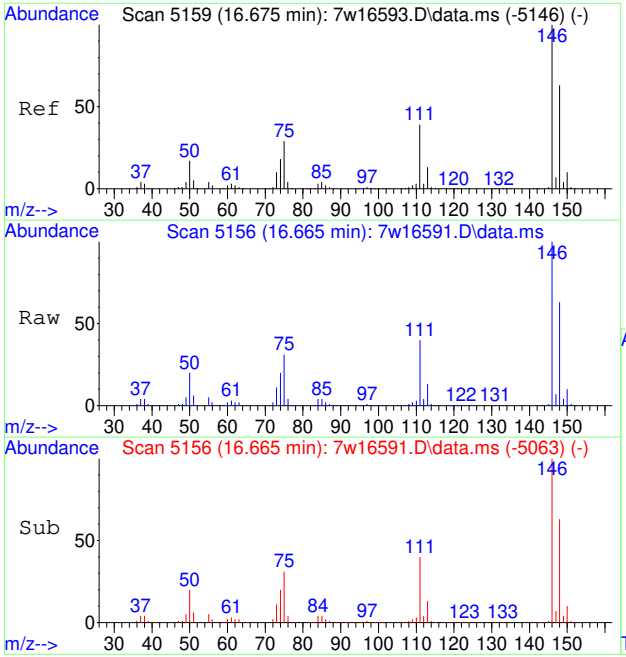


#98
M-DICHLOROBENZENE
Concen: 19.50 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 777553

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	41.5	25.4	47.2

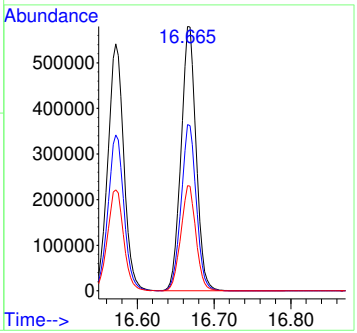


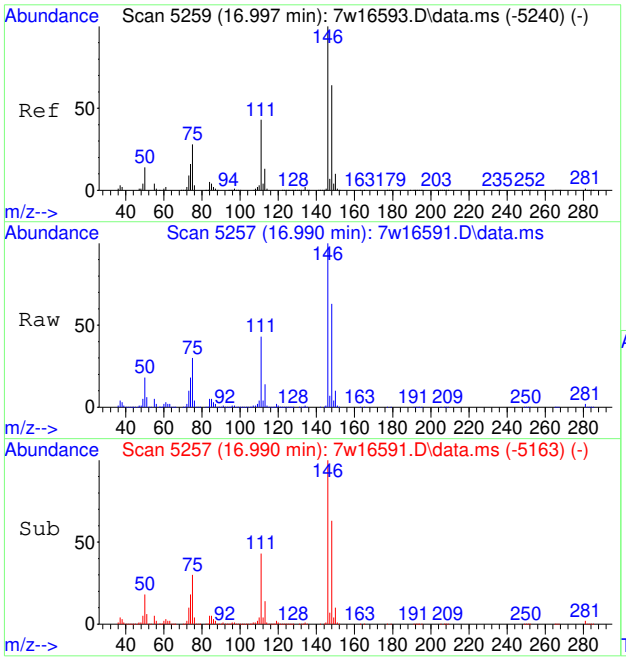


#99
P-DICHLOROBENZENE
Concen: 20.08 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 788870

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	39.8	24.8	46.1

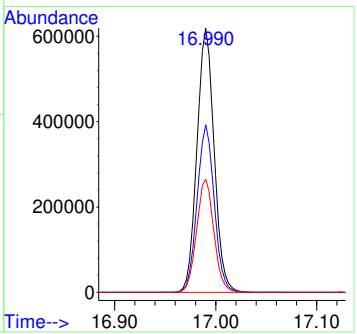


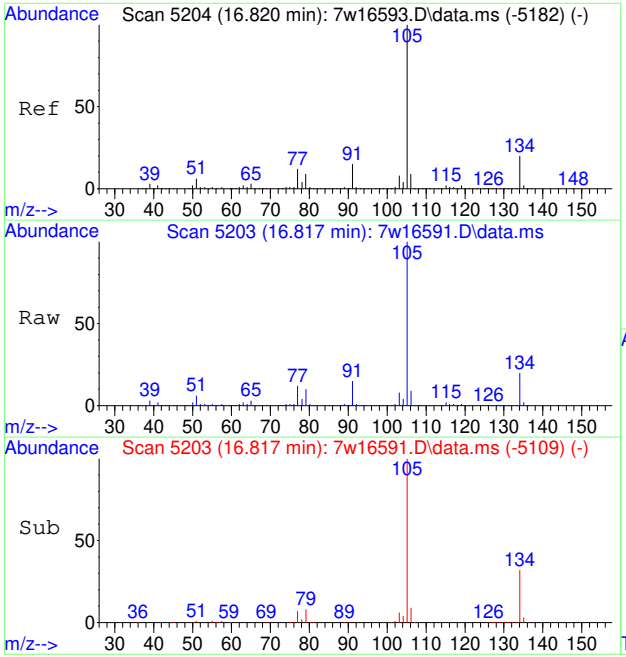


#100
O-DICHLOROBENZENE
Concen: 19.81 PPBV
RT: 16.990 min Scan# 5257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 731265

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	43.1	26.9	50.1

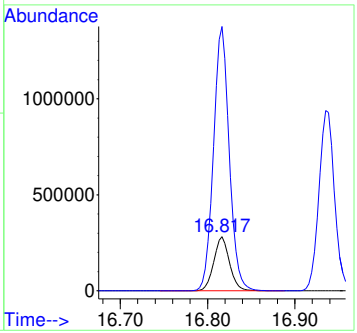


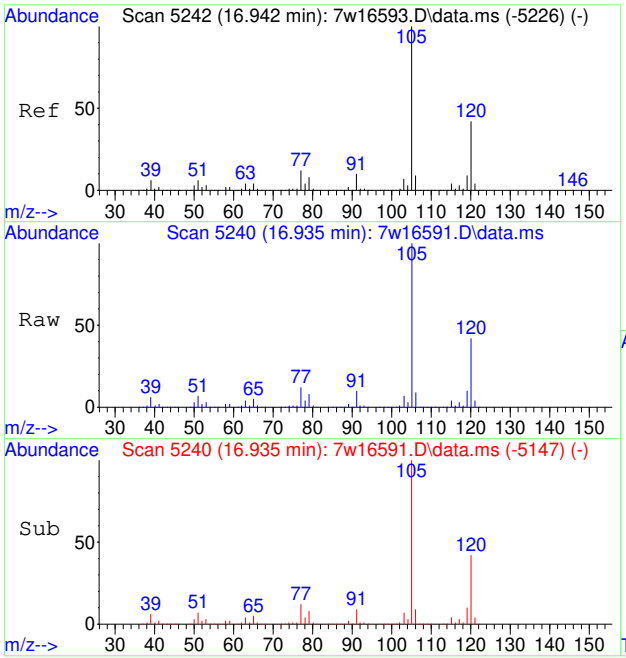


#101
SEC-BUTYLBENZENE
Concen: 20.47 PPBV
RT: 16.817 min Scan# 5203
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 351357

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

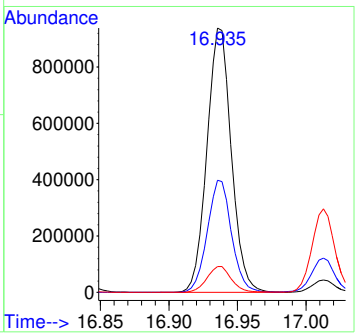


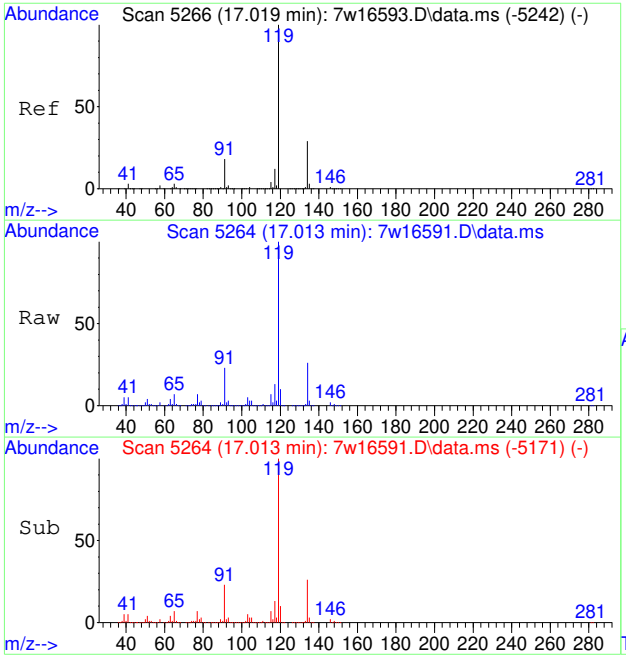


#102
1,2,3-TRIMETHYLBENZENE
Concen: 19.79 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1159850

Ion	Ratio	Lower	Upper
105	100		
120	42.2	31.9	59.2
91	9.9	7.3	13.5

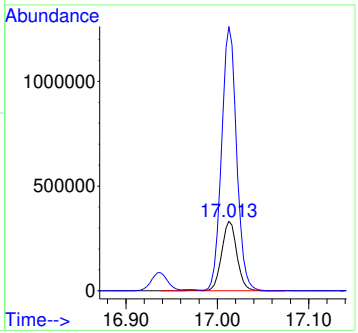


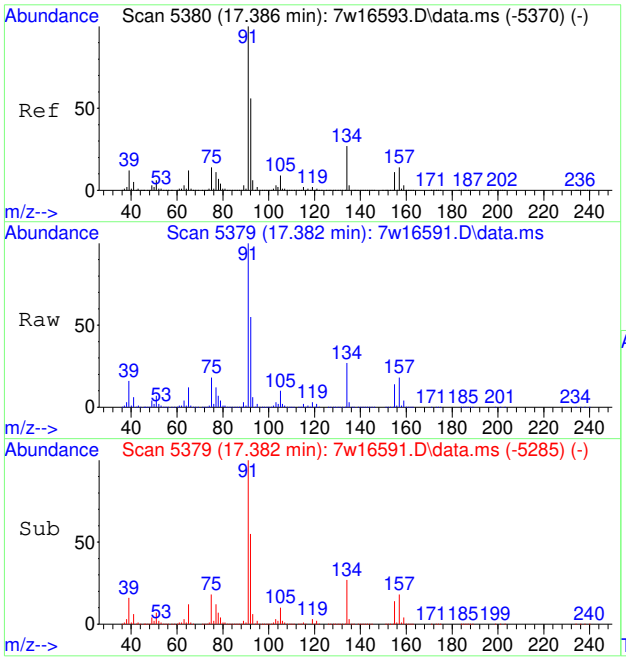


#103
P-ISOPROPYLTOLUENE
Concen: 19.97 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 385467

Ion	Ratio	Lower	Upper
134	100		
119	375.6	253.7	471.3

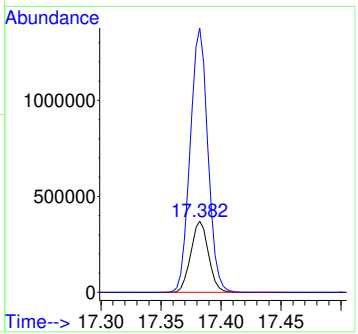


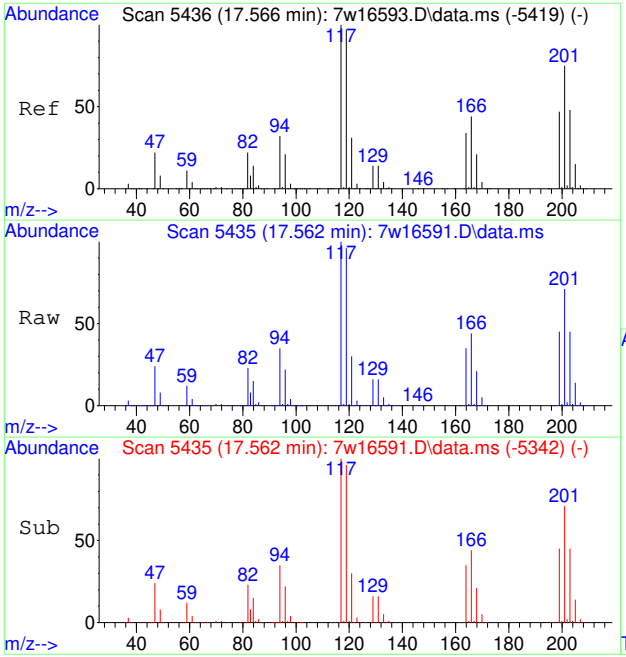


#104
N-BUTYLBENZENE
Concen: 20.40 PPBV
RT: 17.382 min Scan# 5379
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 378596

Ion	Ratio	Lower	Upper
134	100		
91	373.4	231.1	429.1

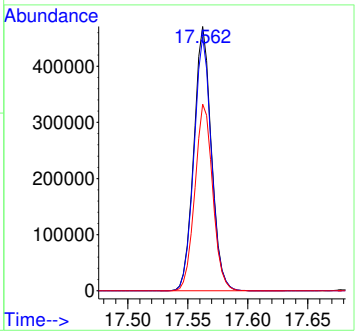


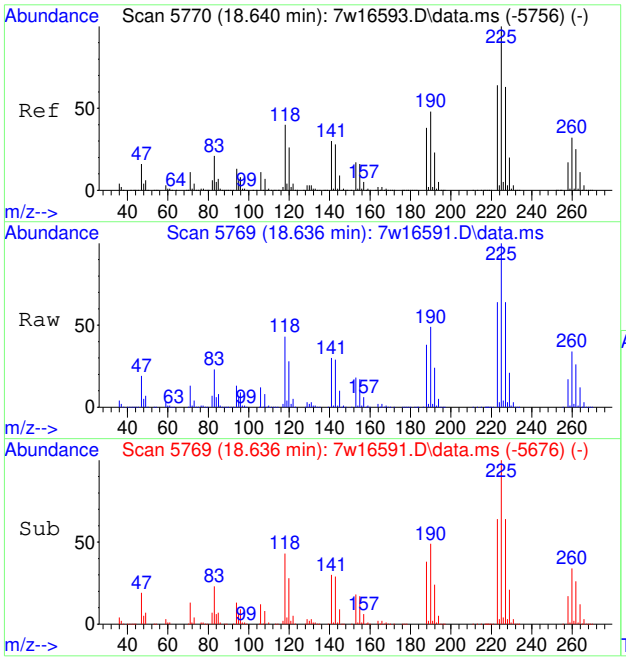


#105
HEXACHLOROETHANE
Concen: 20.73 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 477608

Ion	Ratio	Lower	Upper
117	100		
119	96.1	68.3	126.9
201	71.6	45.9	85.3

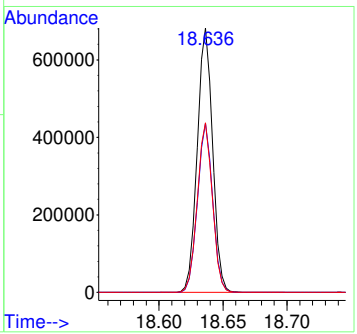


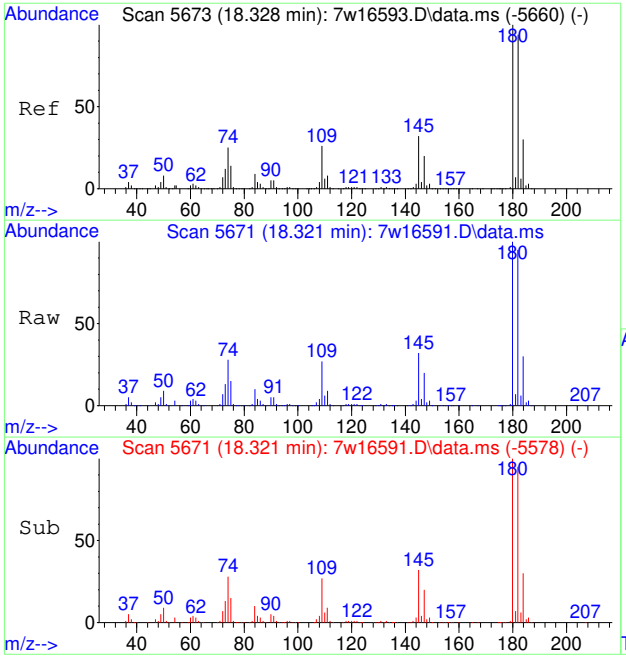


#106
HEXACHLOROBUTADIENE
Concen: 22.43 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:225 Resp: 568005

Ion	Ratio	Lower	Upper
225	100		
227	63.2	44.4	82.5
223	63.2	44.7	83.1

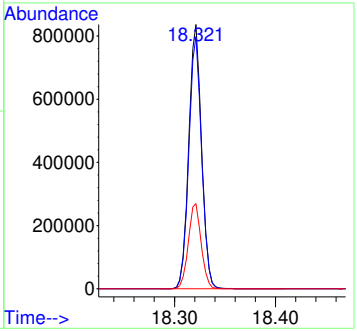


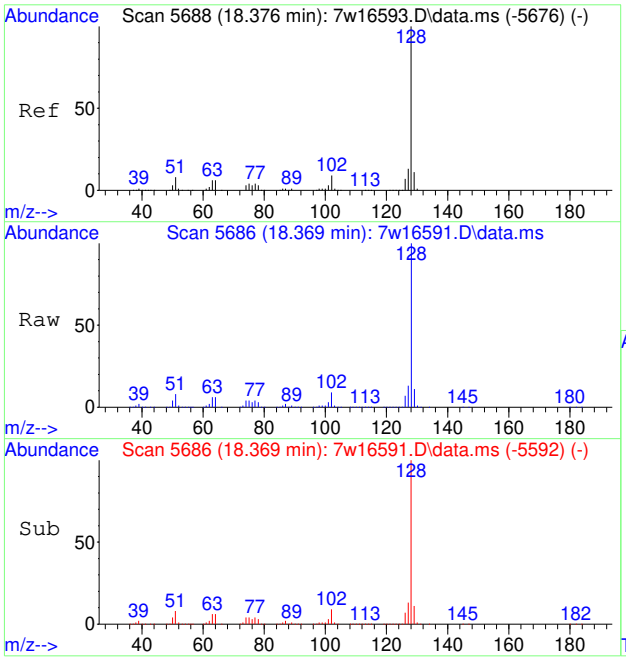


#107
1,2,4-TRICHLOROBENZENE
Concen: 22.61 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:180 Resp: 737709

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.4	23.1	42.9

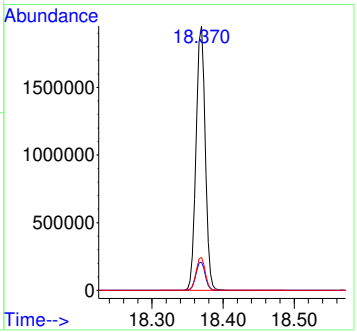


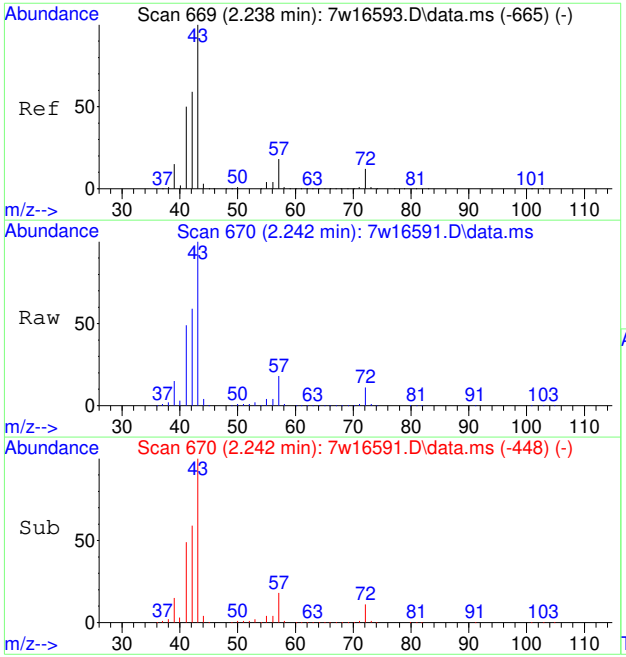


#108
NAPHTHALENE
Concen: 22.94 PPBV
RT: 18.369 min Scan# 5686
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:128 Resp: 1742340

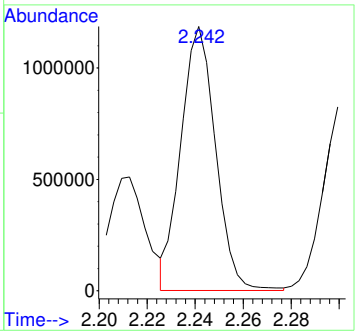
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.3	13.7
127	12.5	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 19.68 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:TIC Resp: 1188767



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16591.D
Injection Time: 08/07/25 13:47

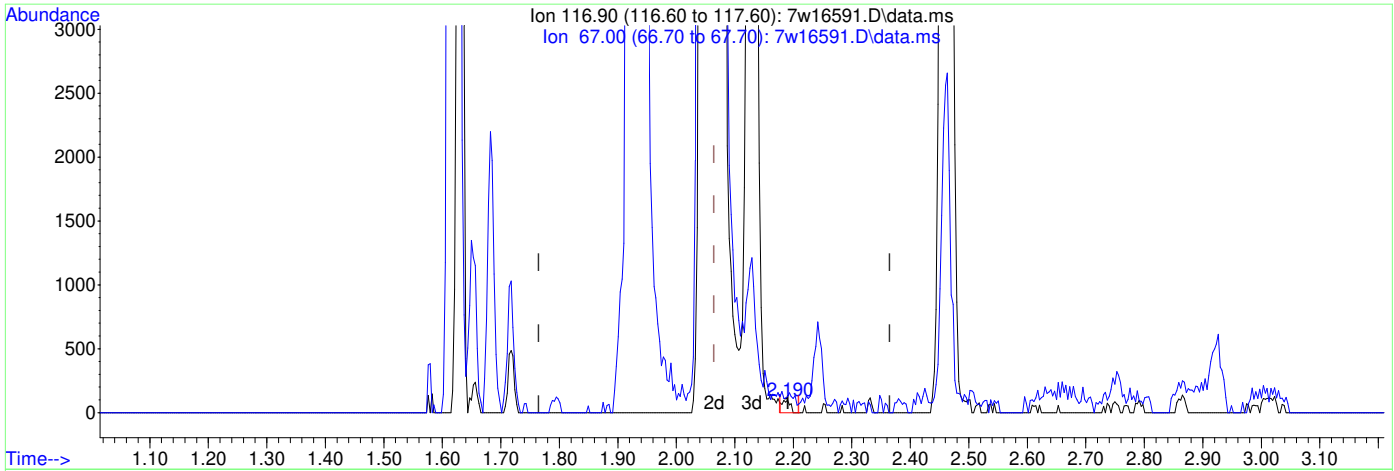
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

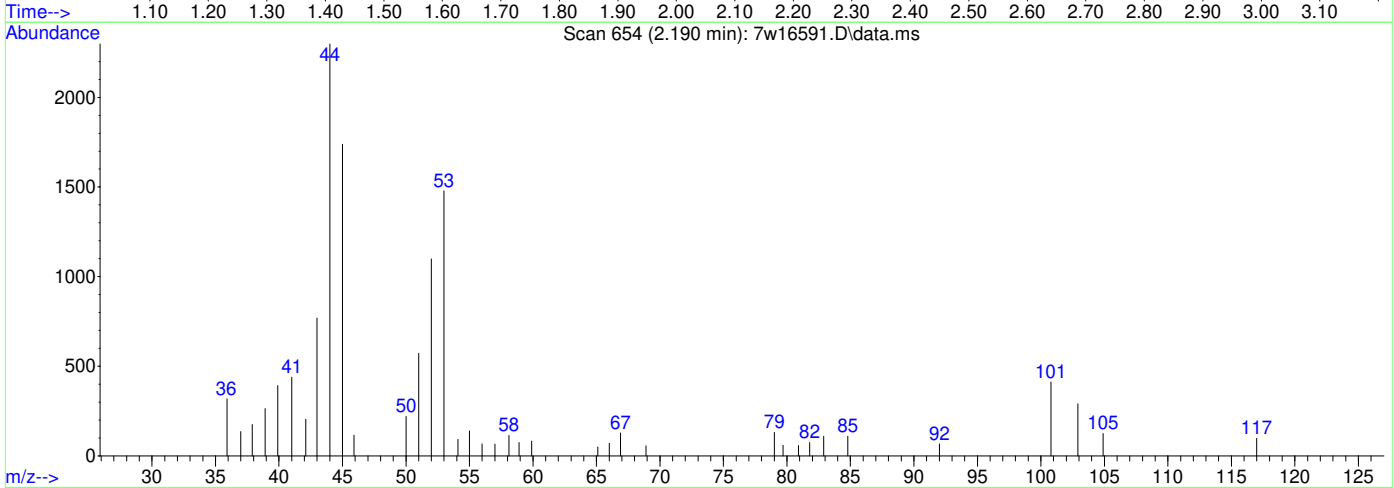
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Freon 123A	354-23-4		2.06	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.190min (+0.125) 0.01PPBV

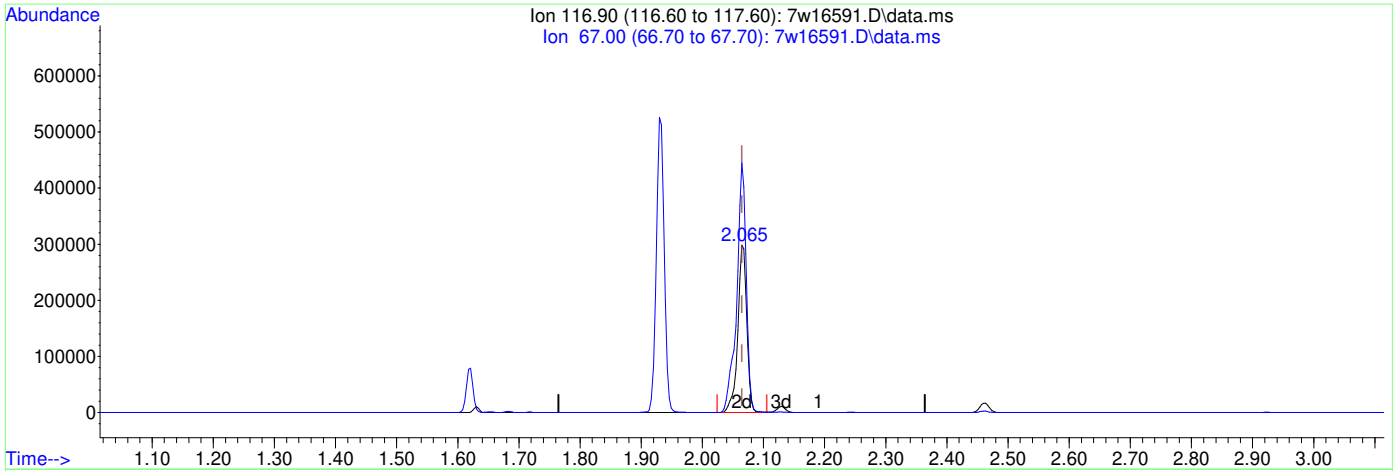
response 91

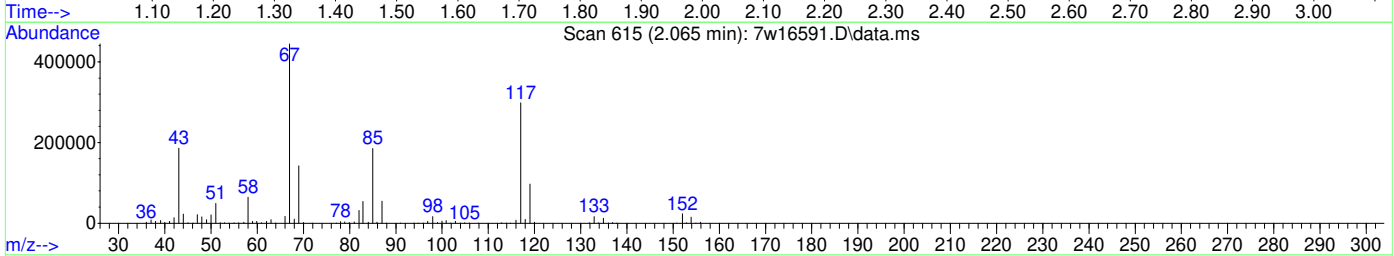
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	87.91
0.00	0.00	0.00
0.00	0.00	0.00

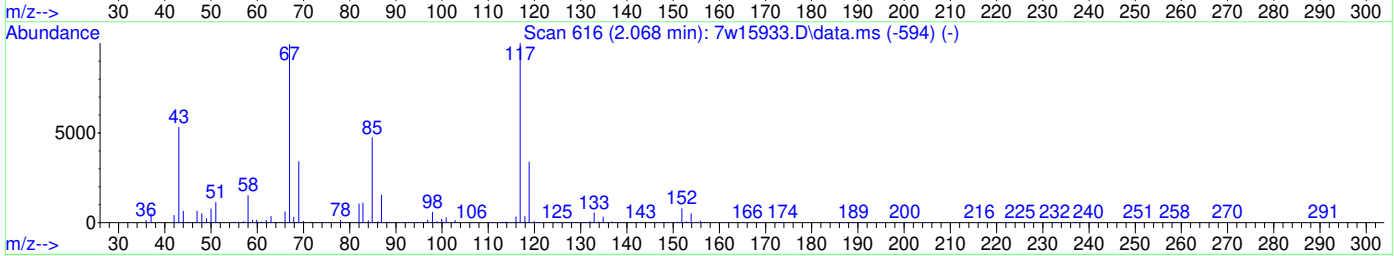
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.065min (+0.000) 19.66PPBV m

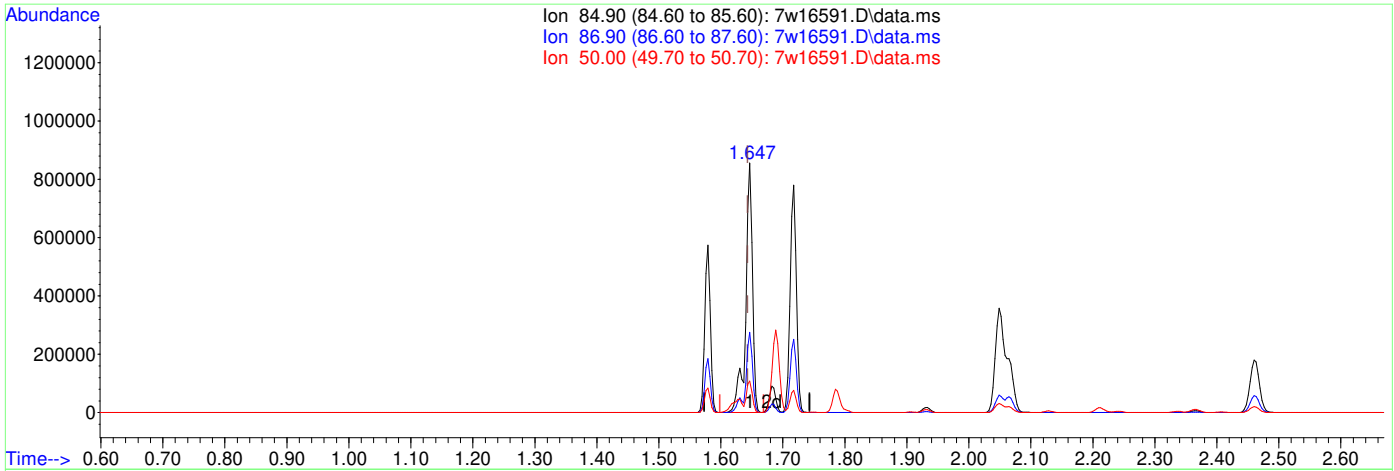
response 305527

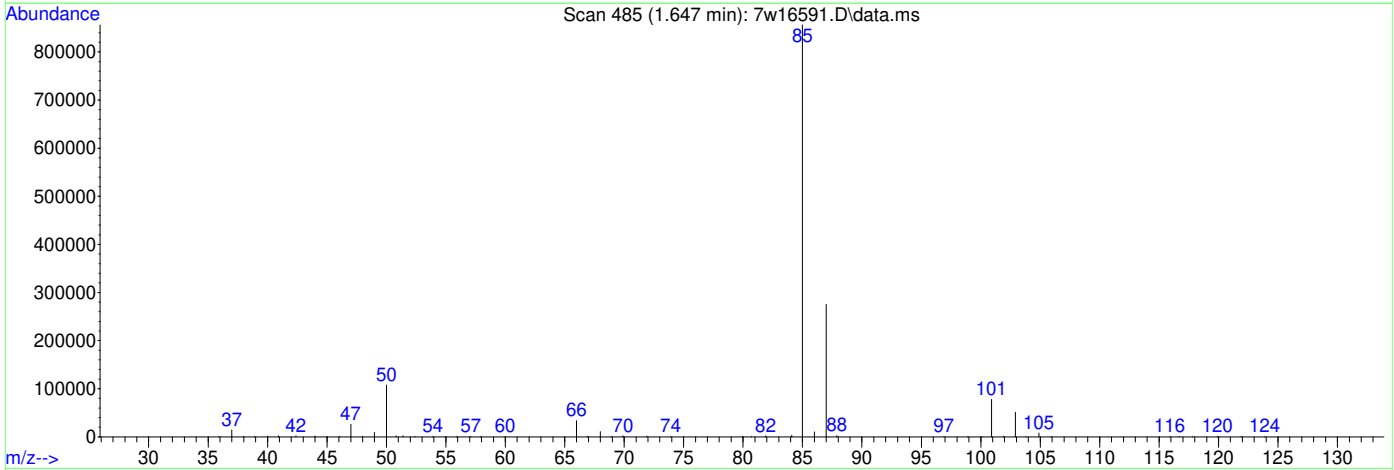
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	0.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 19.70PPBV

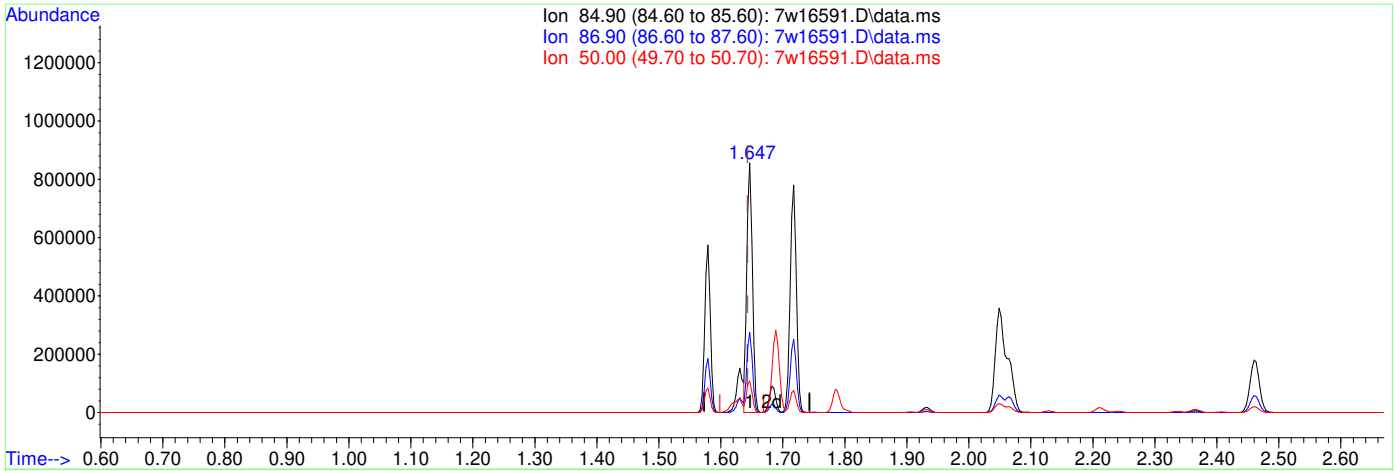
response 644952

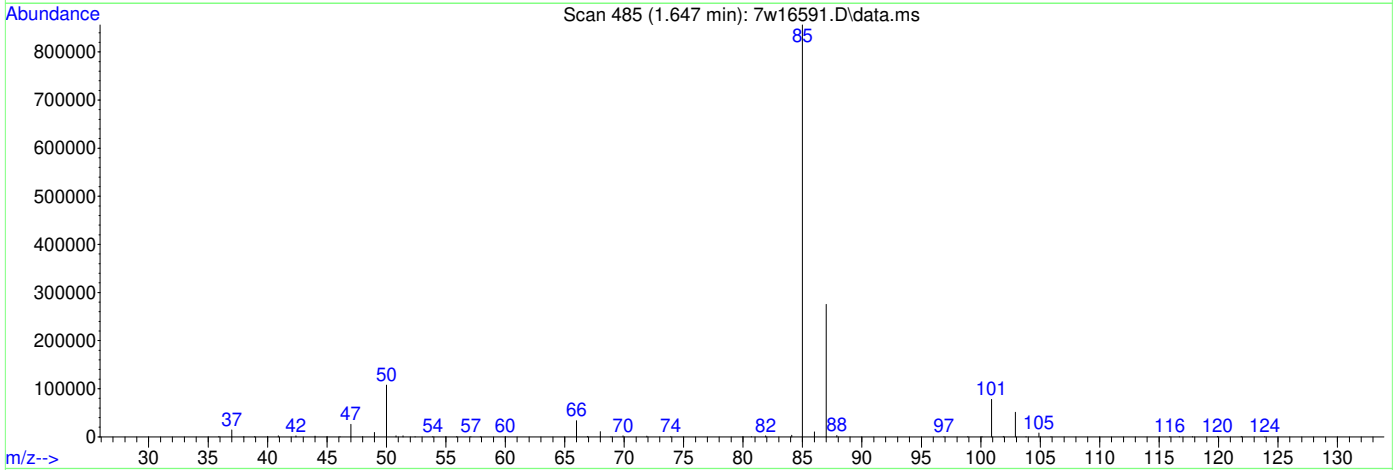
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.48
50.00	17.30	19.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 16.21PPBV m

response 530689

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.48
50.00	17.30	23.23#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109851	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	546669	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	501897	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109805	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	410954	10.23	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	264206	37.90	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	119359	39.64	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.627	116	590023	41.37	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	1043482m	33.07	PPBV		
7) PROPYLENE	1.627	41	337148	36.84	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	920580	38.25	PPBV		99
9) FREON 114	1.714	85	1067029	38.99	PPBV		99
10) CHLOROMETHANE	1.685	52	141787	36.20	PPBV		95
11) VINYL CHLORIDE	1.746	62	502517	36.90	PPBV		99
12) 1,3-BUTADIENE	1.785	54	386481	35.40	PPBV		98
13) N-BUTANE	1.798	43	676218	36.22	PPBV		99
14) BROMOMETHANE	1.859	94	380493	35.73	PPBV		99
15) CHLOROETHANE	1.904	64	257541	34.46	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	910295	35.30	PPBV		100
17) ACETONITRILE	1.994	41	384504	28.62	PPBV		100
18) ACROLEIN	2.033	56	220730	35.64	PPBV		99
19) FREON 123	2.049	83	996862	38.68	PPBV		100
20) FREON 123A	2.065	117	586604	38.26	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1049426	35.69	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	888452	34.78	PPBV		100
23) ACETONE	2.071	58	248365	35.92	PPBV		96
24) PENTANE	2.238	42	472130	34.15	PPBV		100
25) IODOMETHANE	2.299	142	1038259	38.79	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	419658	37.54	PPBV		98
27) CARBON DISULFIDE	2.463	76	1201974	37.99	PPBV		97
28) ETHANOL	1.930	45	213512	31.01	PPBV		100
29) BROMOETHENE	2.004	106	389718	36.91	PPBV		100
30) ACRYLONITRILE	2.209	52	360634	37.39	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	378529	33.80	PPBV		95
32) 3-CHLOROPROPENE	2.406	76	219238	36.95	PPBV		95
33) FREON 113	2.460	151	643045	38.50	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	441405	35.87	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.335	59	985604	31.02	PPBV		100
36) METHYL TERTIARY BUTYL ...	2.791	73	1301474	37.36	PPBV		100
37) TETRAHYDROFURAN	3.463	72	204769	36.97	PPBV		98
38) HEXANE	3.242	57	870000	36.93	PPBV		97
39) VINYL ACETATE	2.830	86	130550	40.25	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	876273	37.13	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	232500	36.08	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	476500	37.74	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	251965	37.93	PPBV		92
44) ETHYL ACETATE	3.251	61	179704	40.87	PPBV		88
45) METHYL ACRYLATE	3.238	55	1081547	38.25	PPBV	#	100
46) CHLOROFORM	3.264	83	920953	37.55	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	1014851	38.86	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.824	97	979950	38.31	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1037151	39.82	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	713561	37.86	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.129	78	1384237	36.79	PPBV		99
53)	CYCLOHEXANE	4.335	84	620038	38.40	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.586	71	325381	40.82	PPBV		100
55)	TRICHLOROETHENE	5.016	95	627429	36.24	PPBV		100
56)	1,2-DICHLOROPROPANE	4.785	63	583236	38.36	PPBV		100
57)	DIBROMOMETHANE	4.746	174	542289	36.49	PPBV		99
58)	ETHYL ACRYLATE	4.904	55	1354109	40.04	PPBV		100
59)	BROMODICHLOROMETHANE	4.965	83	1056193	38.42	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	2697169	35.45	PPBV		100
61)	1,4-DIOXANE	5.023	88	307098m	38.33	PPBV		
62)	HEPTANE	5.422	43	919337	36.76	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	535566	38.93	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.042	58	535813	35.65	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	931150	41.03	PPBV		98
66)	TOLUENE	7.135	91	1737506	39.79	PPBV		100
67)	1,3-DICHLOROPROPANE	7.196	76	888887	40.85	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	837419	41.75	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.769	83	506821	41.21	PPBV		99
70)	2-HEXANONE	7.698	58	721391	33.68	PPBV		98
71)	ETHYL METHACRYLATE	7.836	69	919855	40.41	PPBV		97
72)	TETRACHLOROETHENE	8.849	164	647021	40.75	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.666	129	1078202	44.36	PPBV		100
74)	1,2-DIBROMOETHANE	8.007	107	940297	41.96	PPBV		100
75)	OCTANE	9.000	43	1299991	39.19	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.064	131	780177	43.93	PPBV		100
78)	CHLOROBENZENE	10.052	112	1423127	41.32	PPBV		99
79)	ETHYLBENZENE	10.929	91	2363041	41.92	PPBV		100
80)	M,P-XYLENE	11.357	91	3630117	78.82	PPBV		99
81)	O-XYLENE	12.289	91	1842699	41.40	PPBV		98
82)	STYRENE	12.077	104	1452853	44.73	PPBV		99
83)	NONANE	13.412	43	1380586	39.45	PPBV		99
84)	BROMOFORM	11.167	173	961757	47.95	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	12.306	83	1339122	42.27	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.585	75	1047163	42.19	PPBV		100
88)	ISOPROPYLBENZENE	13.797	120	695388	41.27	PPBV		99
89)	BROMOBENZENE	13.666	77	1318537	40.55	PPBV		100
90)	2-CHLOROTOLUENE	14.794	126	639043	41.17	PPBV		100
91)	N-PROPYLBENZENE	15.135	120	740280	42.04	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	2747294	42.04	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.852	105	2286498	41.87	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.177	118	1155488	43.69	PPBV		100
95)	TERT-BUTYLBENZENE	16.505	134	554595	41.12	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.514	105	2336862	43.35	PPBV		100
97)	BENZYL CHLORIDE	16.608	91	2115310	52.85	PPBV		99
98)	M-DICHLOROBENZENE	16.575	146	1509487	40.35	PPBV		99
99)	P-DICHLOROBENZENE	16.672	146	1527061	41.45	PPBV		100
100)	O-DICHLOROBENZENE	16.993	146	1428015	41.29	PPBV		99
101)	SEC-BUTYLBENZENE	16.820	134	675130	42.40	PPBV		100
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2270987	41.87	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.016	134	742541	42.05	PPBV		100
104)	N-BUTYLBENZENE	17.386	134	743410	45.09	PPBV		99
105)	HEXACHLOROETHANE	17.566	117	951757	47.76	PPBV		99
106)	HEXACHLOROBUTADIENE	18.640	225	1162376	48.46	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.325	180	1534367	56.96	PPBV		99
108)	NAPHTHALENE	18.373	128	3606459	60.99	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	2205824	32.90	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

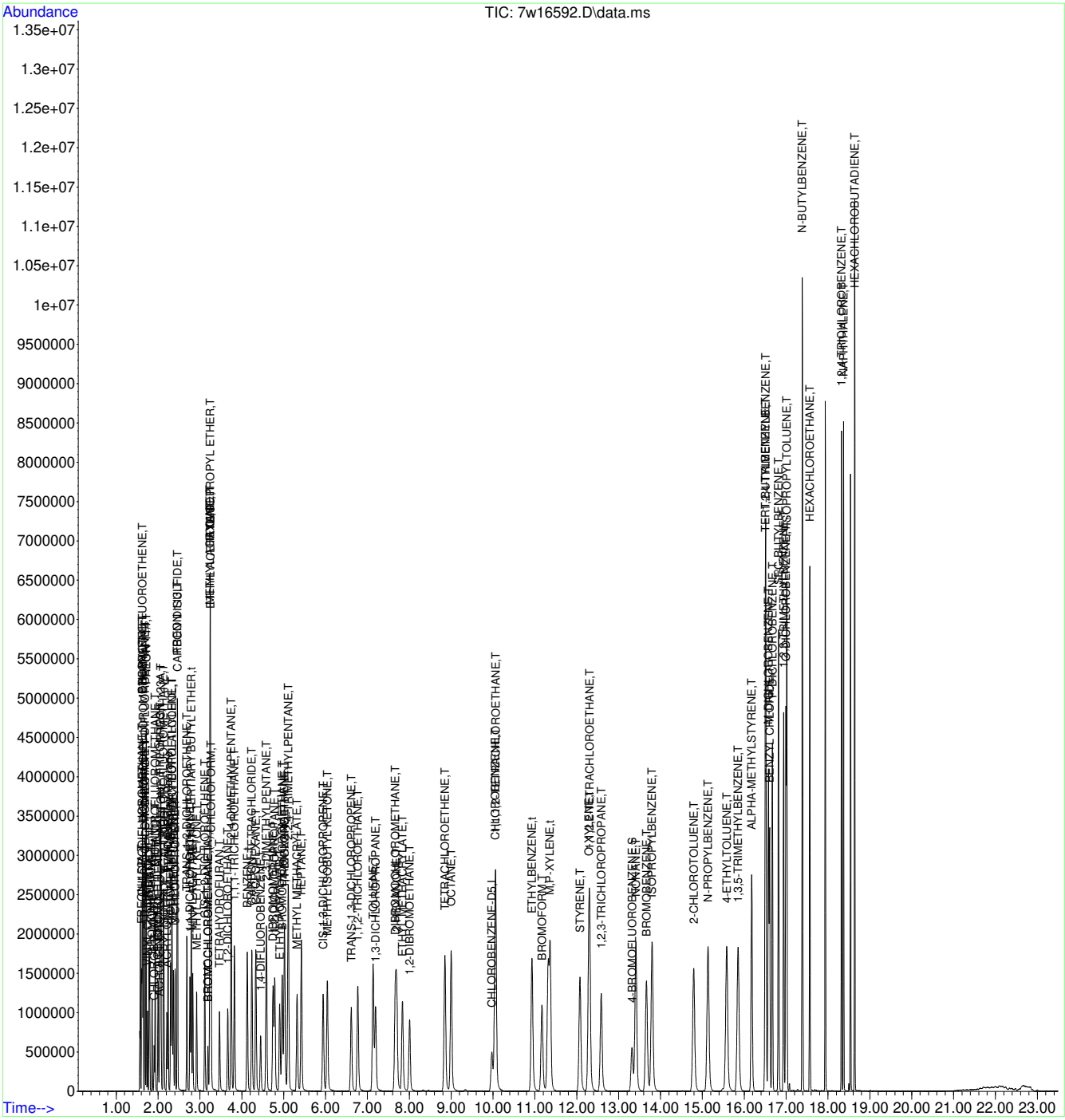
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

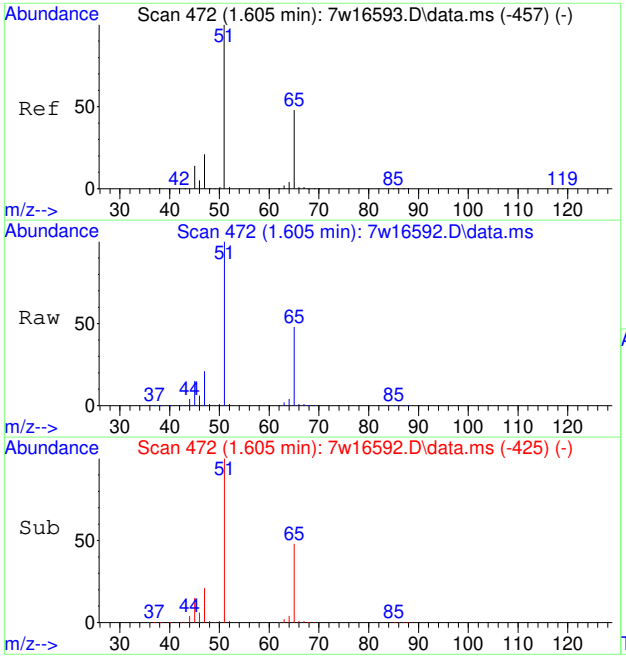
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

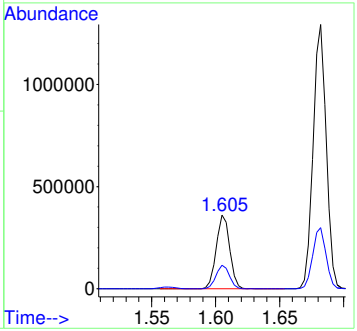


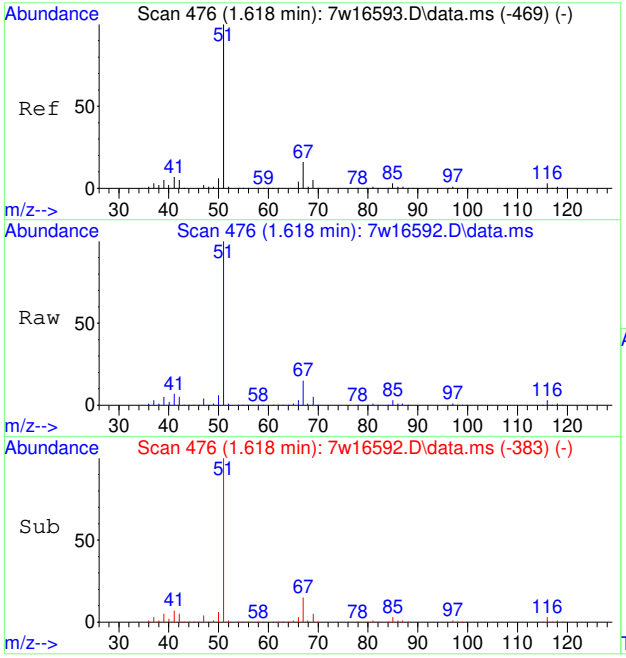


#3
FREON 152A
Concen: 37.90 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 264206

Ion	Ratio	Lower	Upper
65	100		
45	31.8	23.0	42.8

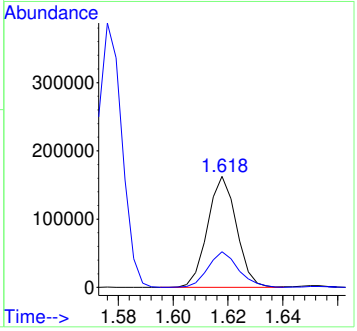


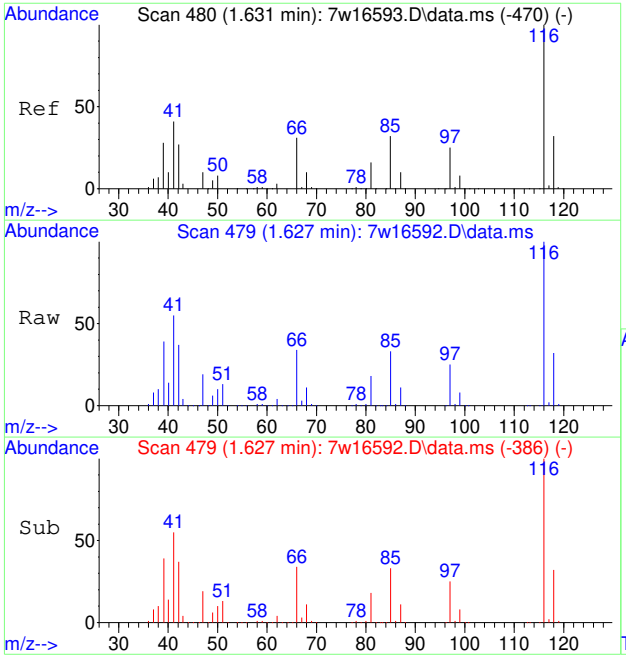


#4
CHLORODIFLUOROMETHANE
Concen: 39.64 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 119359

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

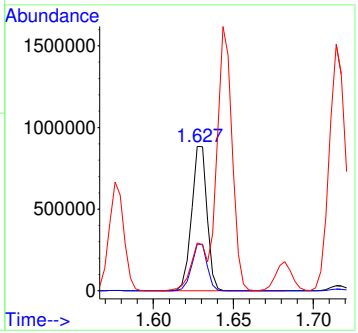


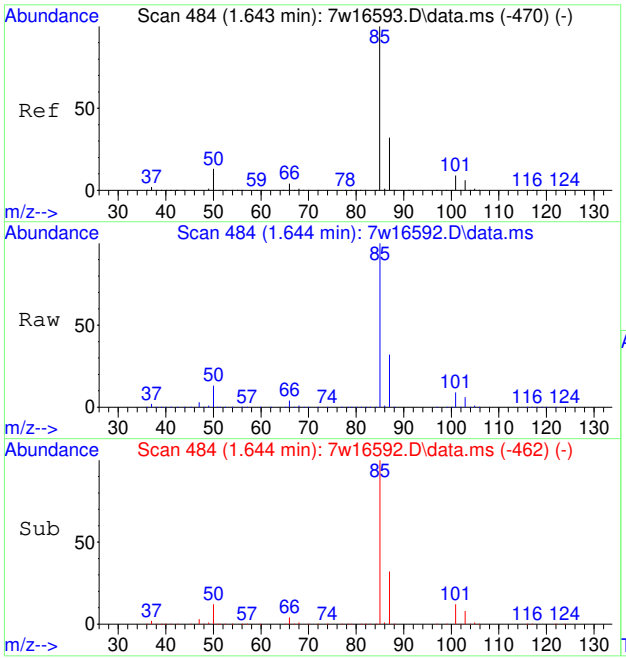


#5
CHLOROTRIFLUOROETHENE
Concen: 41.37 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:116 Resp: 590023

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.6	42.0
85	211.8	152.4	283.0

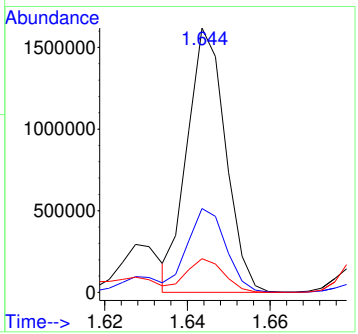


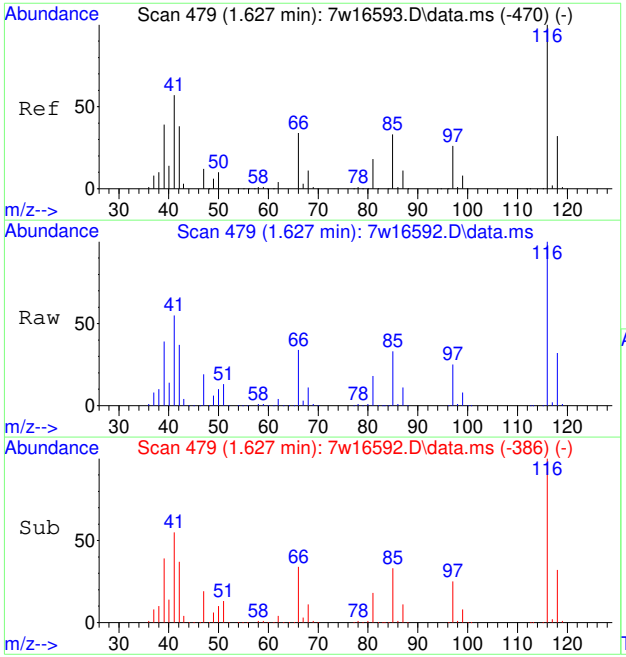


#6
DICHLORODIFLUOROMETHANE
Concen: 33.07 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1043482

Ion	Ratio	Lower	Upper
85	100		
87	38.5	23.0	42.6
50	22.4	13.5	25.1

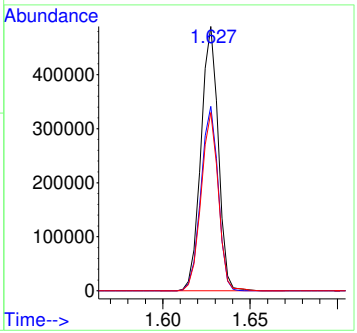


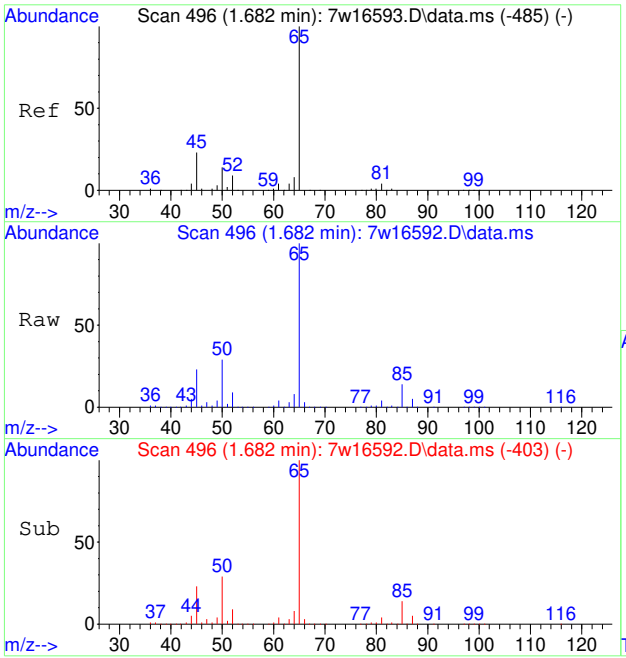


#7
PROPYLENE
Concen: 36.84 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 337148

Ion	Ratio	Lower	Upper
41	100		
39	69.6	50.5	93.7
42	66.9	47.0	87.4

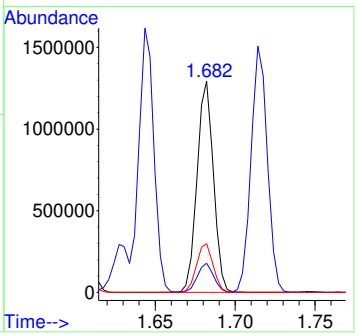


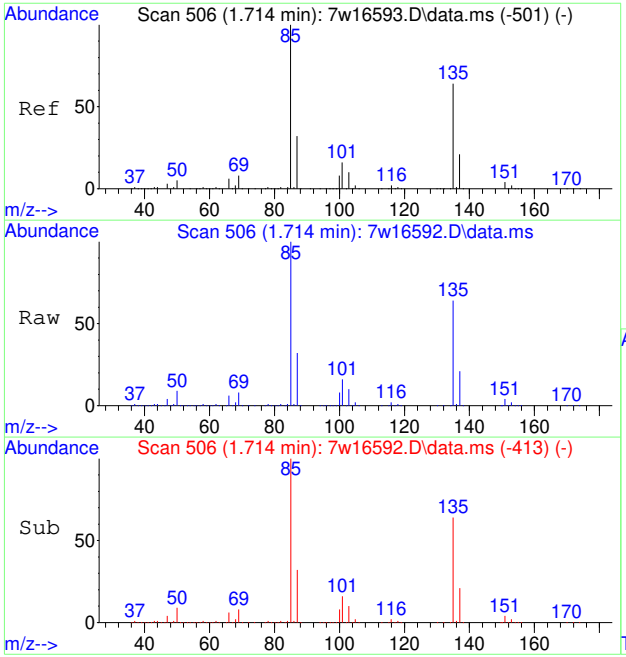


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 38.25 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 920580

Ion	Ratio	Lower	Upper
65	100		
85	13.7	9.4	17.4
45	23.4	16.9	31.3

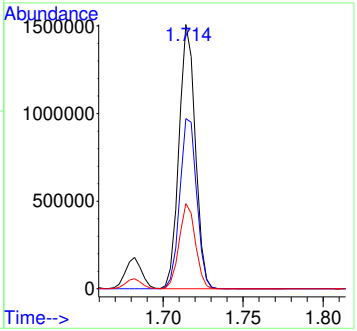


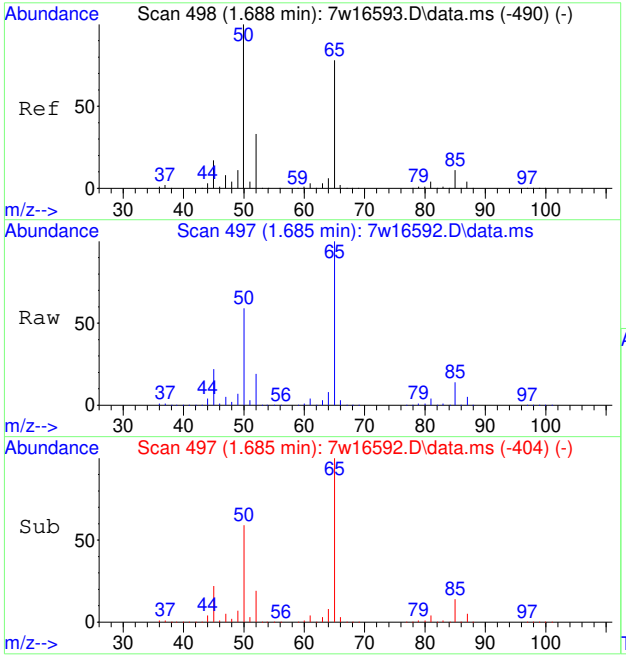


#9
FREON 114
Concen: 38.99 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1067029

Ion	Ratio	Lower	Upper
85	100		
135	66.8	46.1	85.7
87	32.1	22.6	42.0

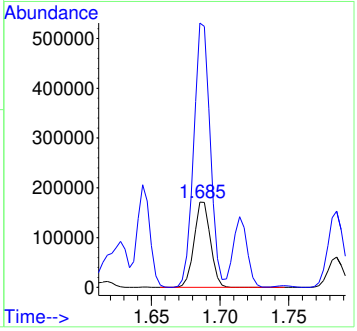


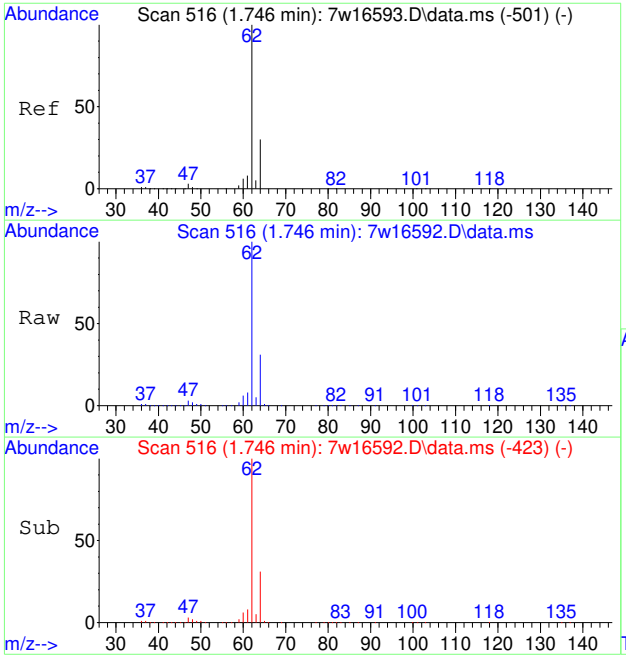


#10
CHLOROMETHANE
Concen: 36.20 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 141787

Ion	Ratio	Lower	Upper
52	100		
50	311.9	225.6	419.0

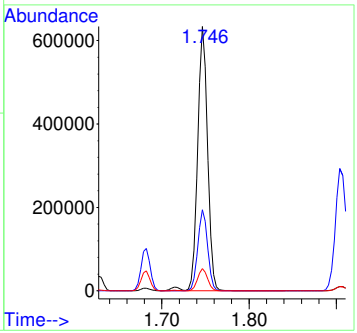


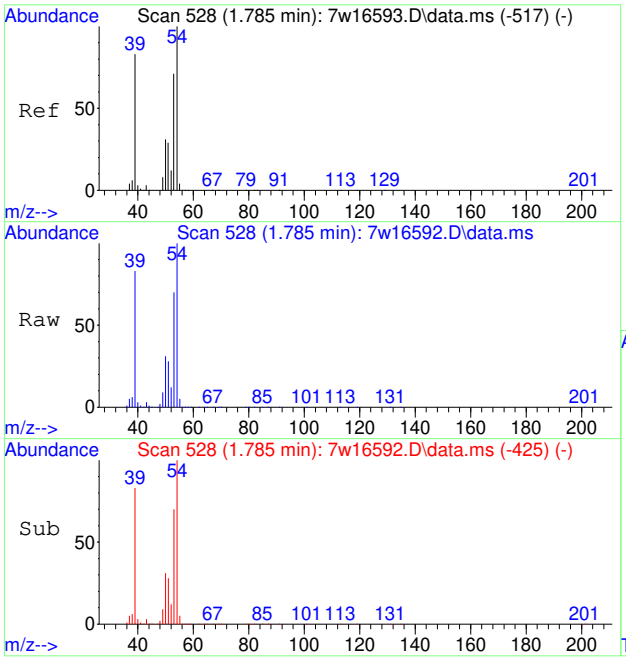


#11
VINYL CHLORIDE
Concen: 36.90 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 502517

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.3	5.7	10.5

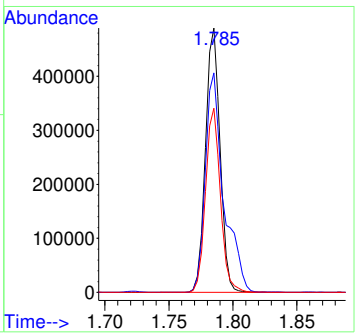


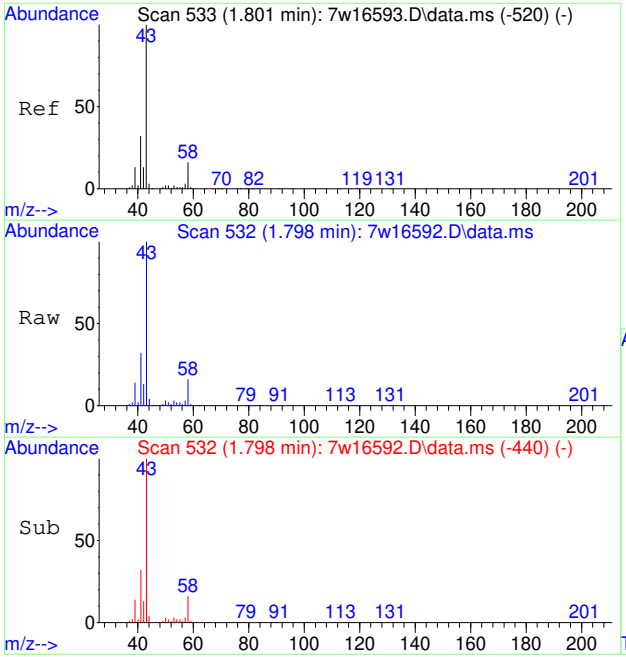


#12
1,3-BUTADIENE
Concen: 35.40 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 54 Resp: 386481

Ion	Ratio	Lower	Upper
54	100		
39	105.3	78.4	138.4
53	71.4	40.9	100.9

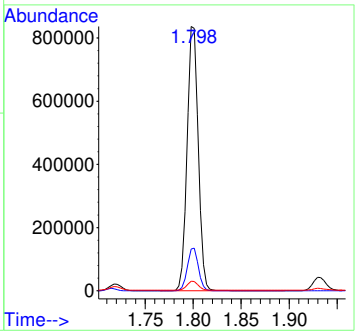


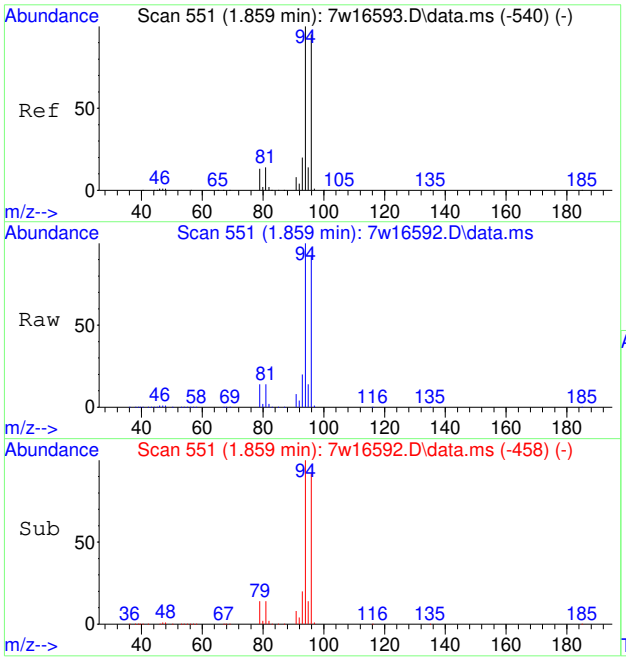


#13
N-BUTANE
Concen: 36.22 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 676218

Ion	Ratio	Lower	Upper
43	100		
58	16.0	11.0	20.4
44	3.5	2.6	4.8

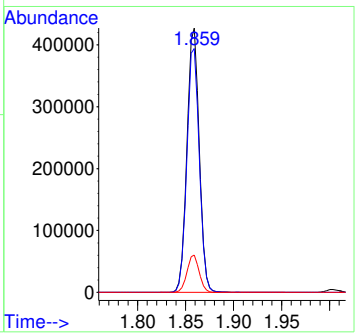


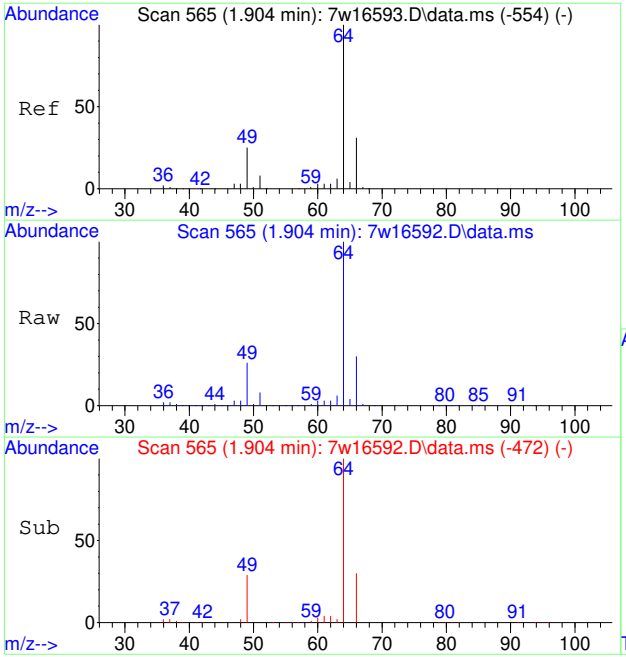


#14
BROMOMETHANE
Concen: 35.73 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 94 Resp: 380493

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	14.0	9.9	18.3

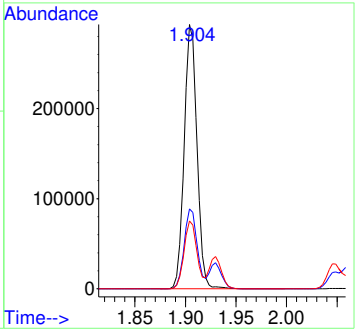


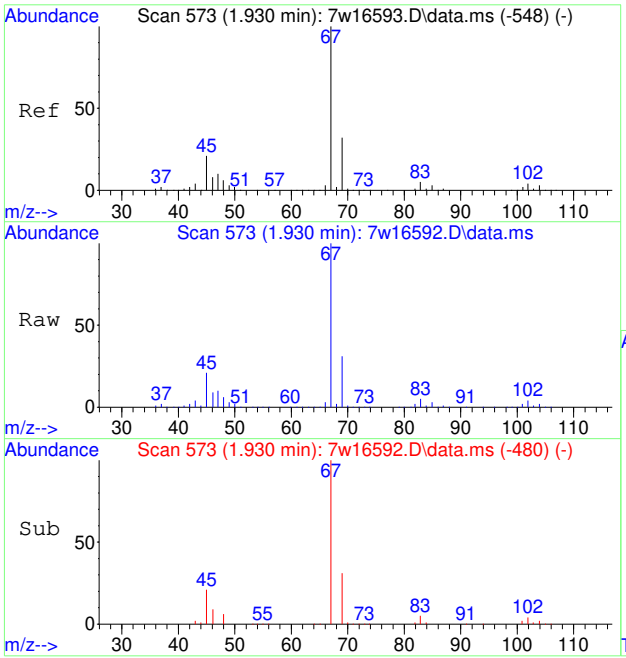


#15
CHLOROETHANE
Concen: 34.46 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 64 Resp: 257541

Ion	Ratio	Lower	Upper
64	100		
66	31.1	21.5	39.9
49	26.6	19.0	35.4

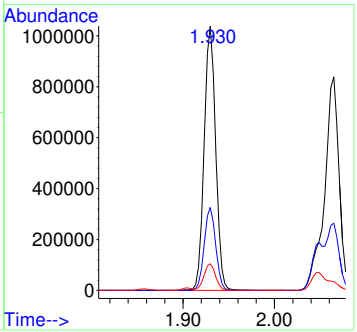


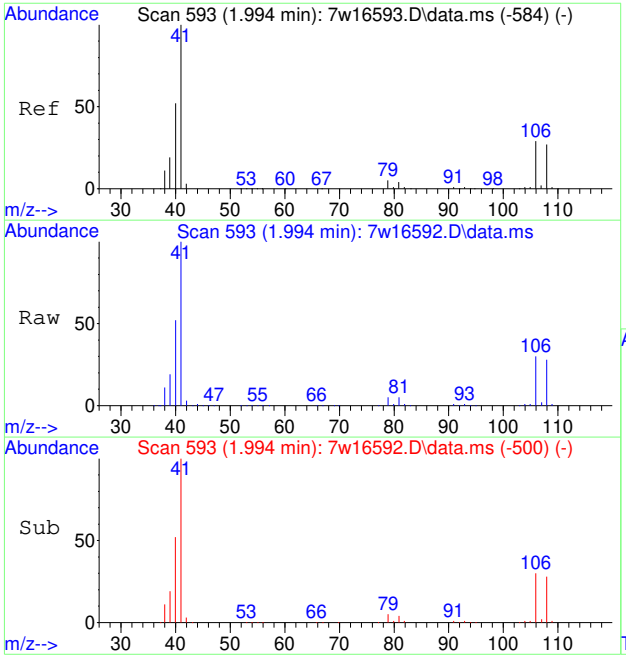


#16
DICHLOROFLUOROMETHANE
Concen: 35.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 910295

Ion	Ratio	Lower	Upper
67	100		
69	31.4	21.8	40.6
47	11.0	8.0	14.8

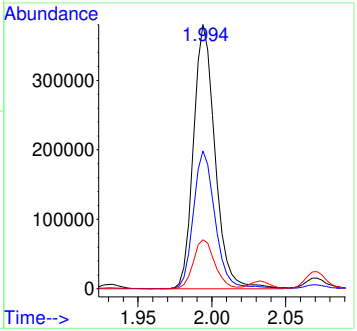


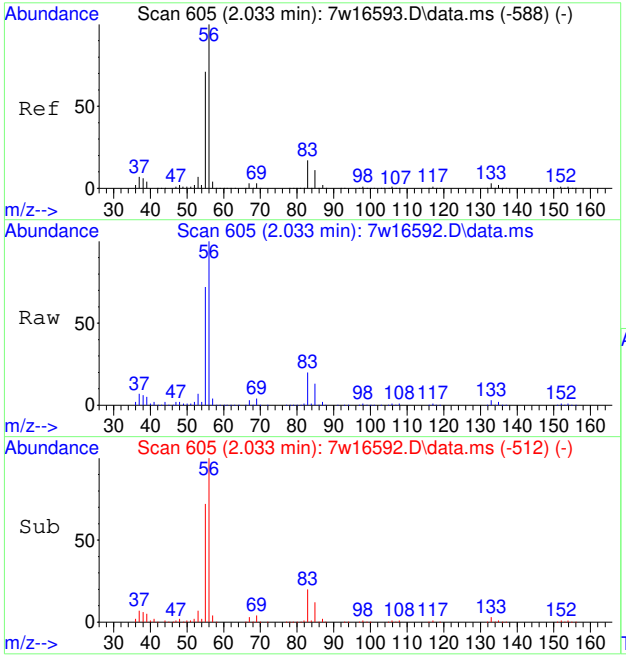


#17
ACETONITRILE
Concen: 28.62 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 384504

Ion	Ratio	Lower	Upper
41	100		
40	52.6	36.7	68.1
39	18.4	13.1	24.3

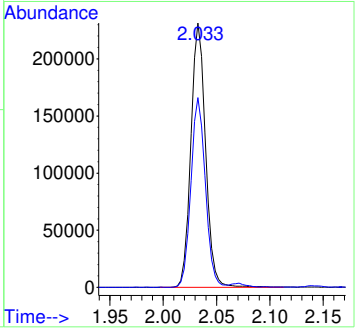


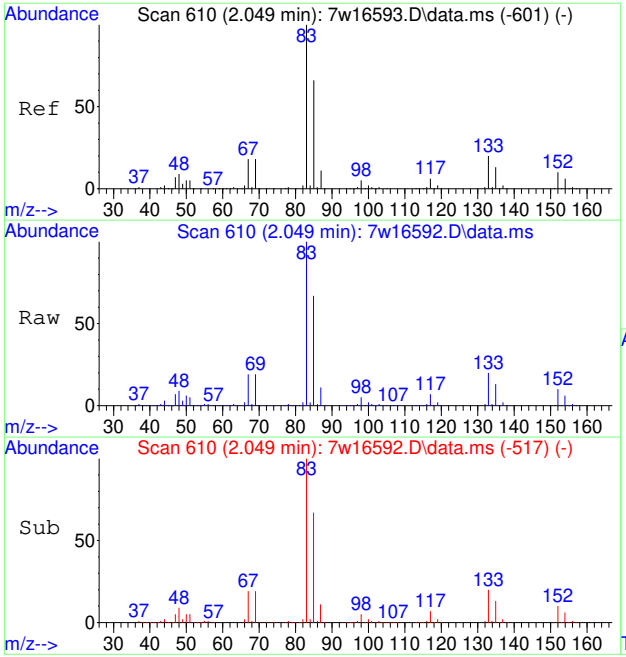


#18
ACROLEIN
Concen: 35.64 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 56 Resp: 220730

Ion	Ratio	Lower	Upper
56	100		
55	70.7	48.9	90.7

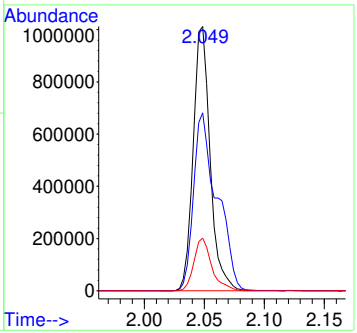


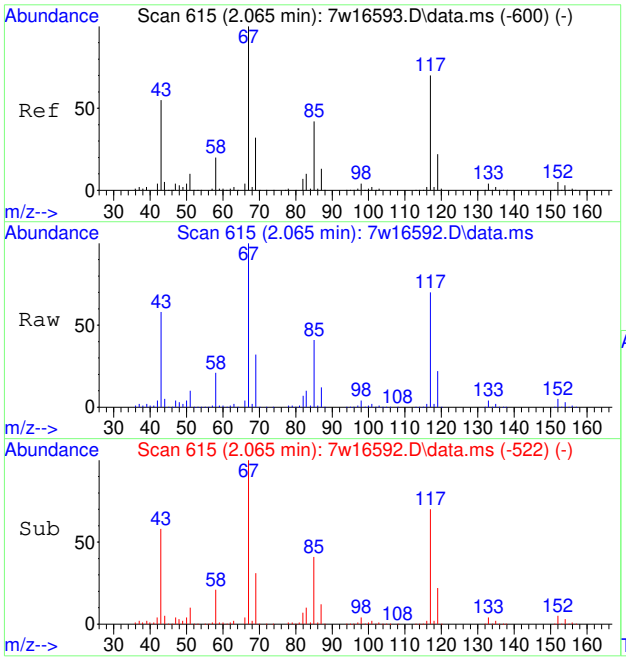


#19
FREON 123
Concen: 38.68 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 996862

Ion	Ratio	Lower	Upper
83	100		
85	93.1	64.9	120.5
133	20.9	14.7	27.3

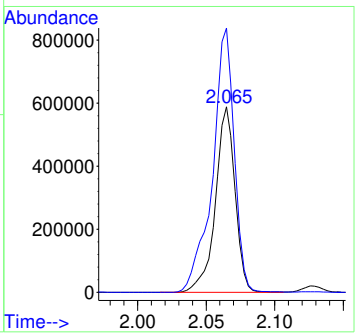


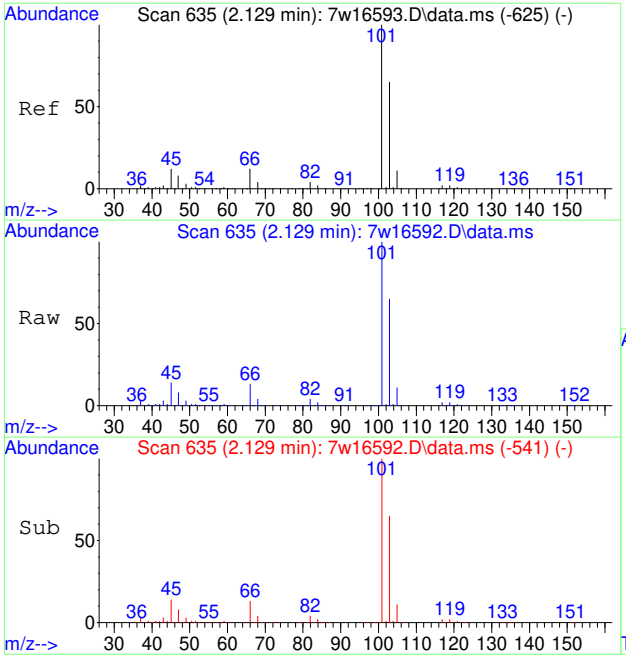


#20
FREON 123A
Concen: 38.26 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 586604

Ion	Ratio	Lower	Upper
117	100		
67	157.9	111.3	206.7

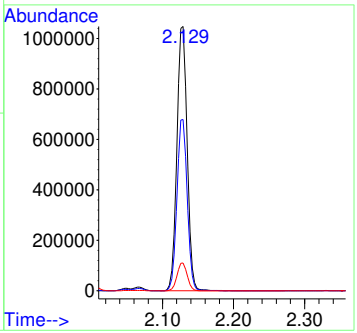


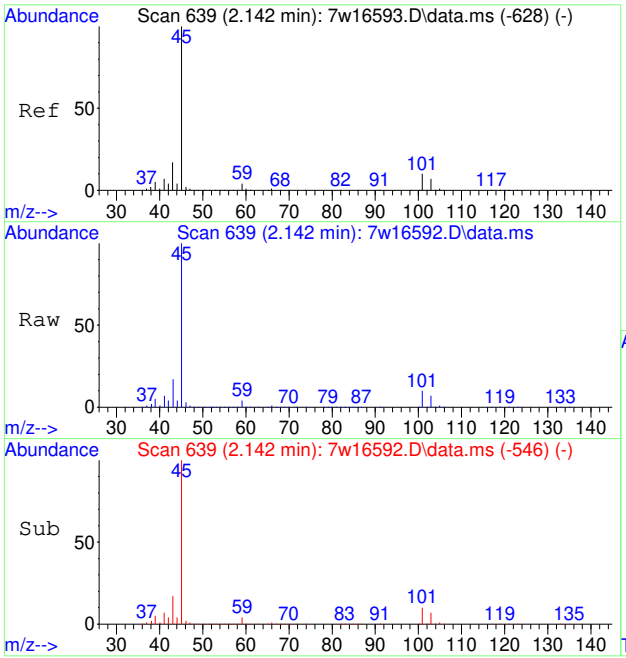


#21
TRICHLOROFLUOROMETHANE
Concen: 35.69 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:101 Resp: 1049426

Ion	Ratio	Lower	Upper
101	100		
103	64.8	45.2	84.0
105	10.5	7.3	13.5

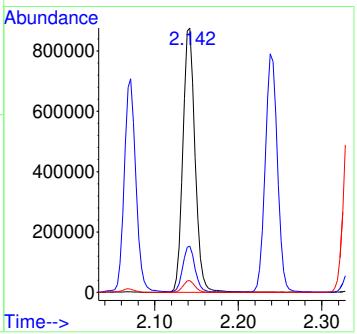


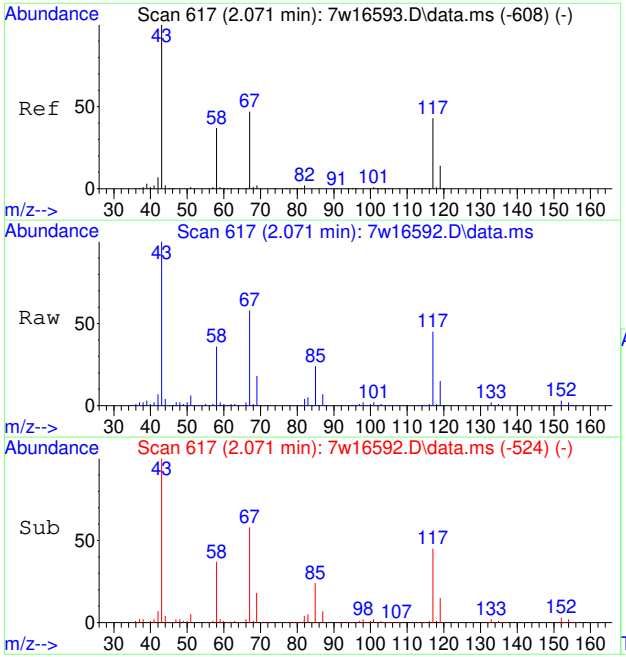


#22
ISOPROPYL ALCOHOL
Concen: 34.78 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 888452

Ion	Ratio	Lower	Upper
45	100		
43	17.7	12.5	23.3
59	4.5	3.1	5.7

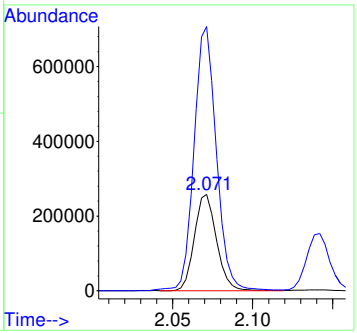


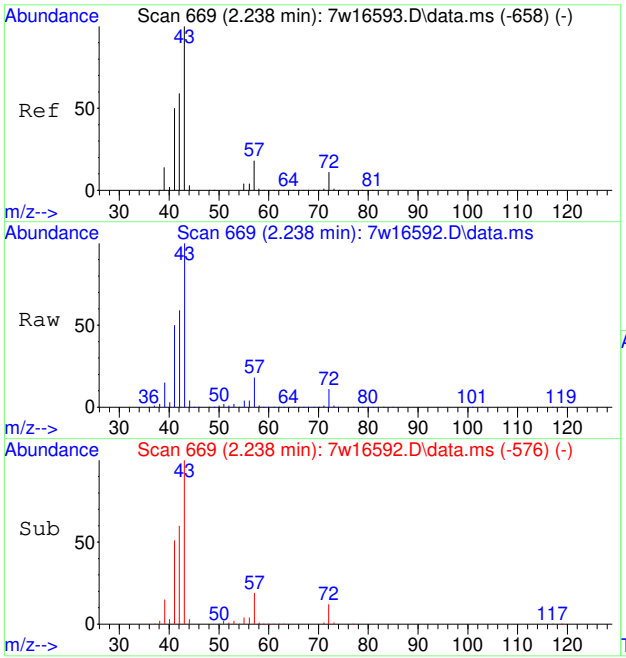


#23
ACETONE
Concen: 35.92 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 248365

Ion	Ratio	Lower	Upper
58	100		
43	276.2	198.6	368.8

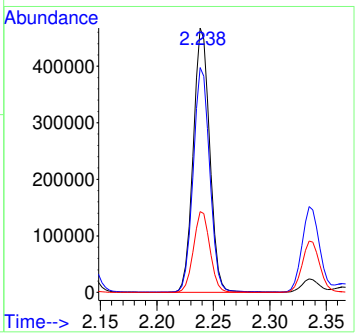


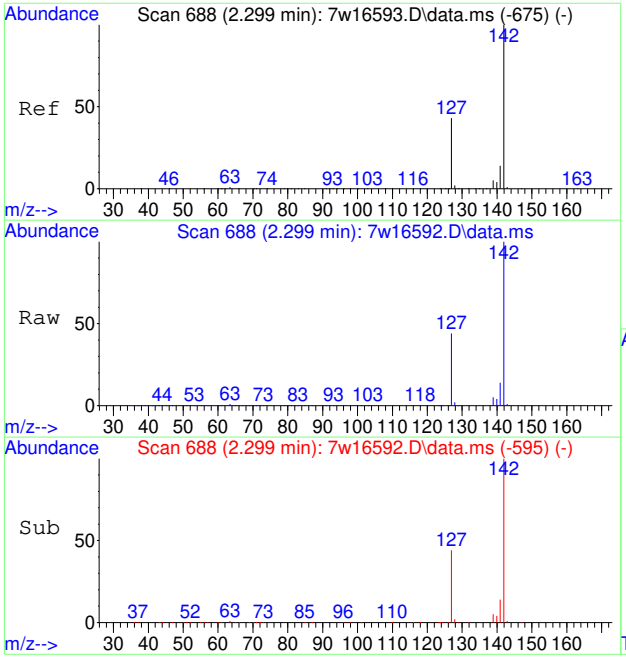


#24
PENTANE
Concen: 34.15 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 42 Resp: 472130

Ion	Ratio	Lower	Upper
42	100		
41	85.2	59.8	111.0
57	30.5	21.1	39.1

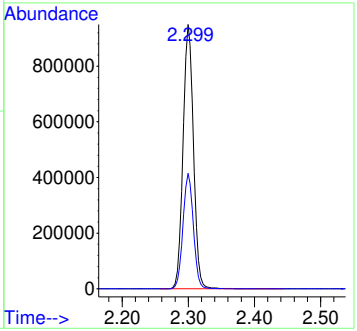


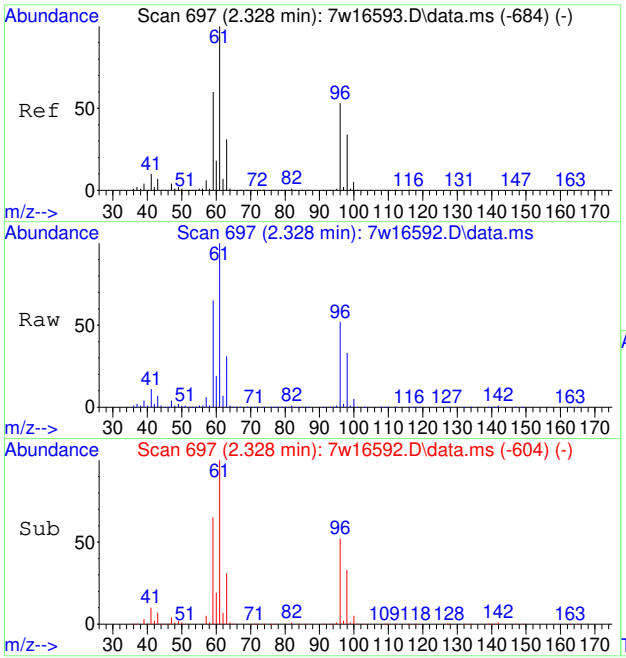


#25
IODOMETHANE
Concen: 38.79 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:142 Resp: 1038259

Ion	Ratio	Lower	Upper
142	100		
127	43.6	30.6	56.8

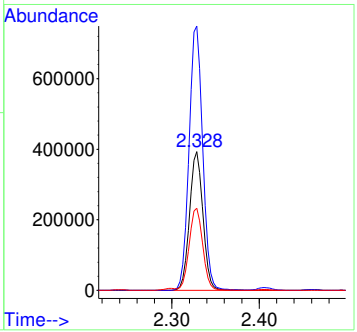


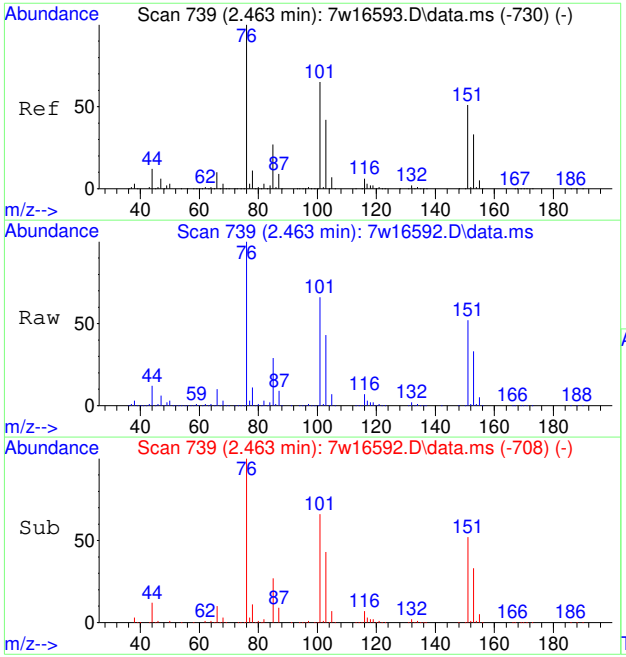


#26
1,1-DICHLOROETHYLENE
Concen: 37.54 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 419658

Ion	Ratio	Lower	Upper
96	100		
61	193.7	138.3	256.8
63	61.5	44.2	82.0

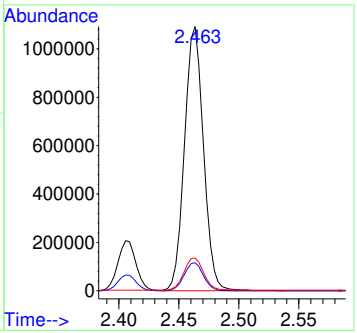


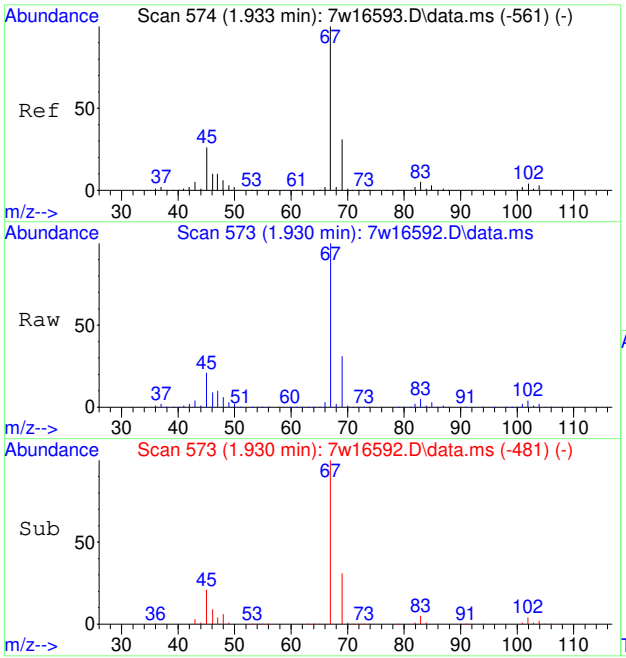


#27
CARBON DISULFIDE
Concen: 37.99 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 1201974

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.8	10.2	19.0

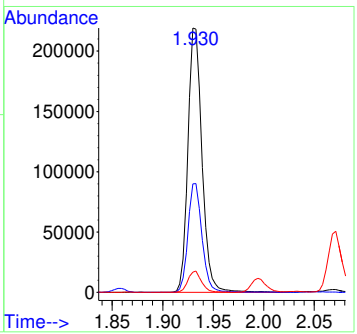


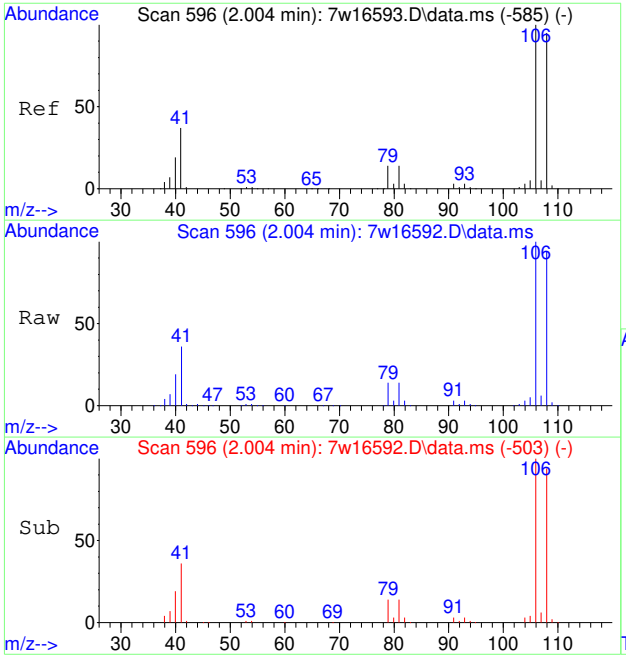


#28
ETHANOL
Concen: 31.01 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 213512

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.9	5.7	10.5

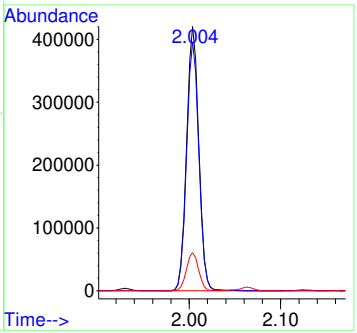


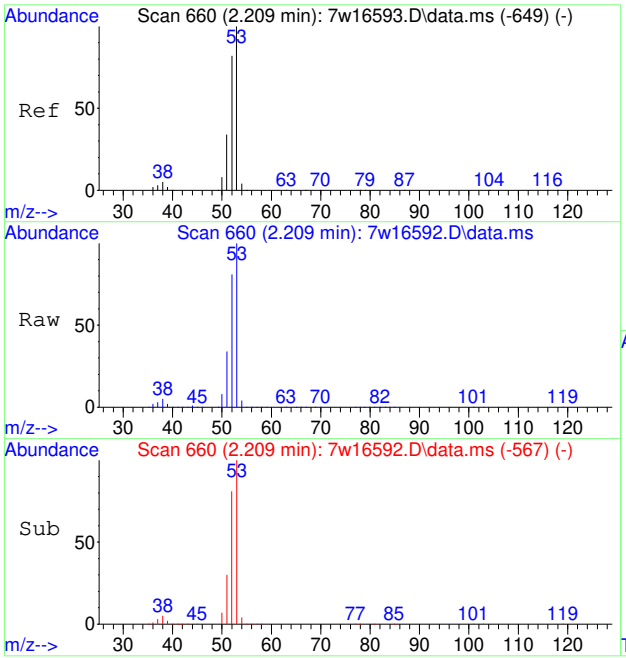


#29
BROMOETHENE
Concen: 36.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:106 Resp: 389718

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.5	10.6	19.8

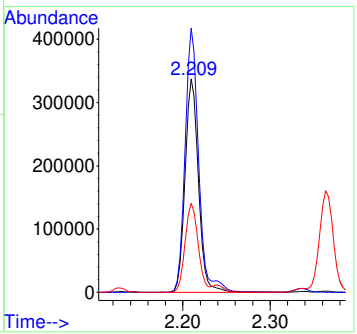


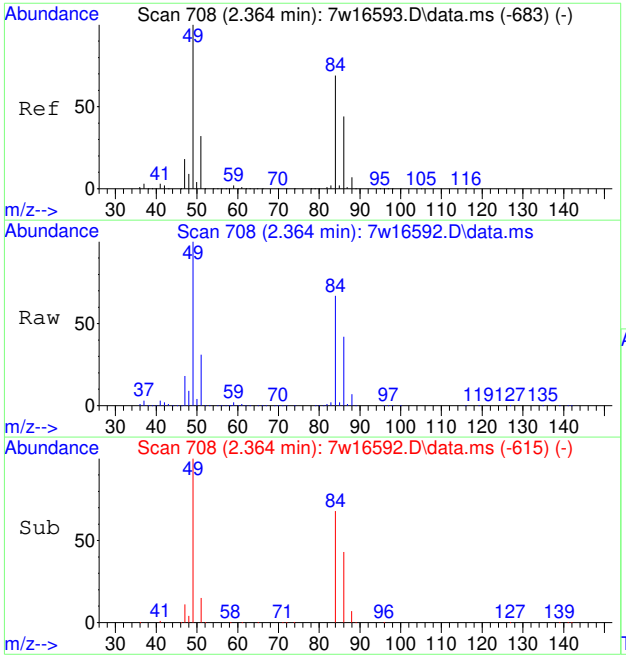


#30
ACRYLONITRILE
Concen: 37.39 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 360634

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.2	31.3	58.1

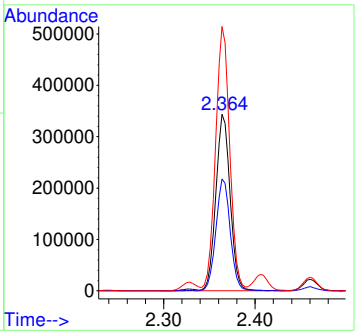


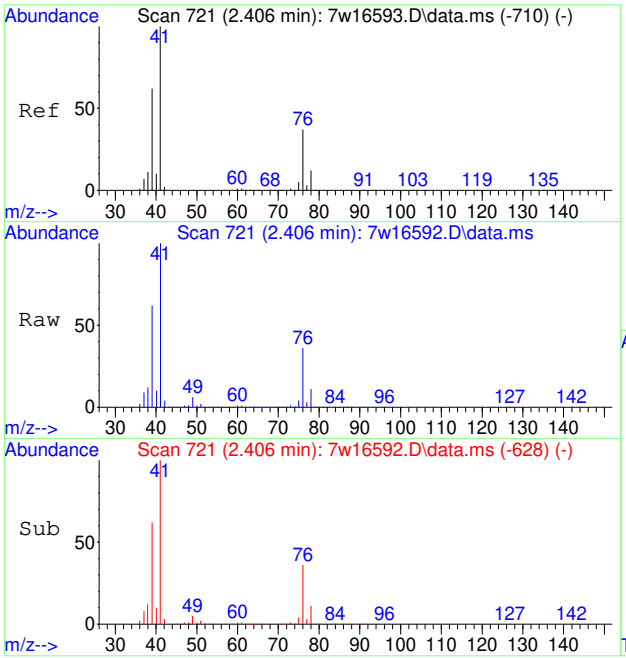


#31
METHYLENE CHLORIDE
Concen: 33.80 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 378529

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.3	82.3
49	147.1	109.5	203.3

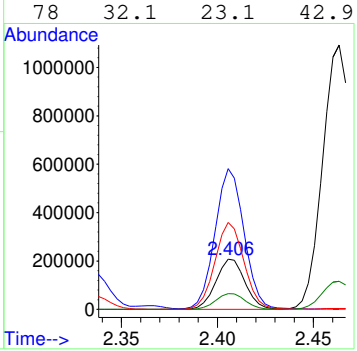


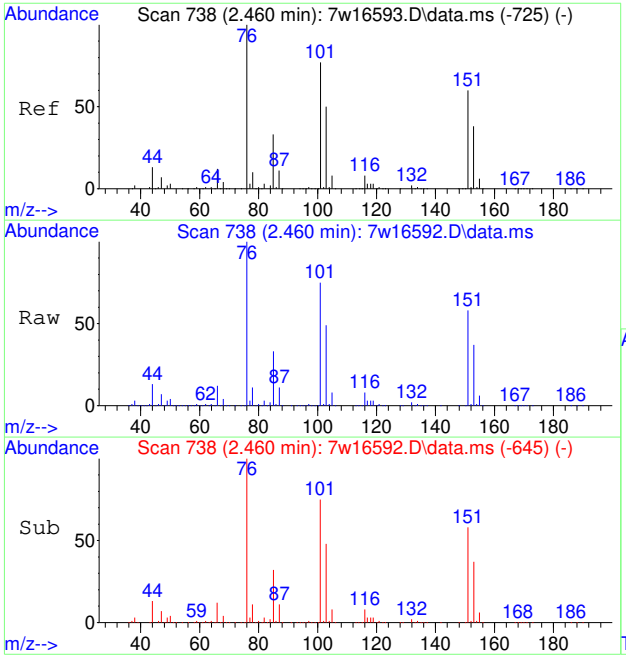


#32
3-CHLOROPROPENE
Concen: 36.95 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 219238

Ion	Ratio	Lower	Upper
76	100		
41	280.1	202.6	376.2
39	172.5	125.8	233.6
78	32.1	23.1	42.9

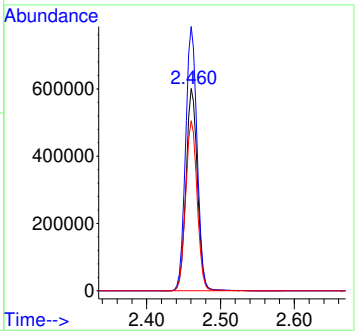


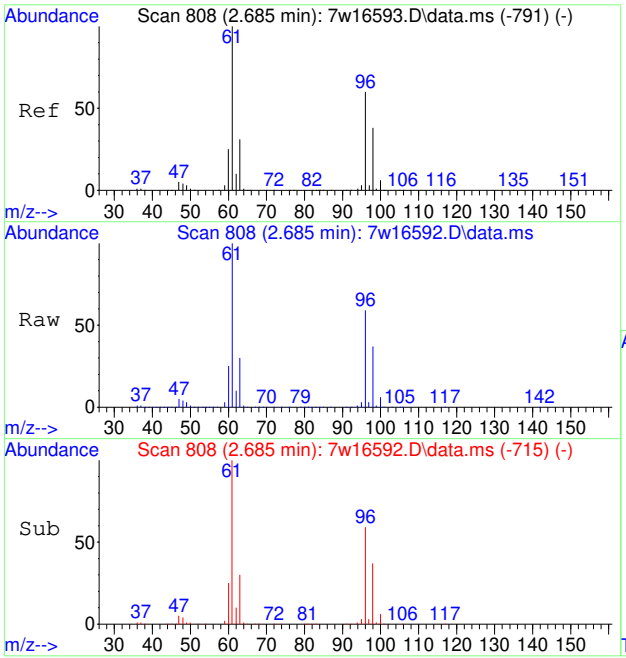


#33
FREON 113
Concen: 38.50 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:151 Resp: 643045

Ion	Ratio	Lower	Upper
151	100		
101	132.0	93.1	172.9
103	85.1	60.1	111.5

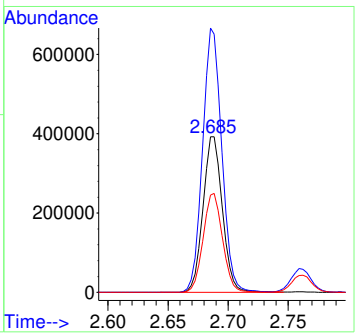


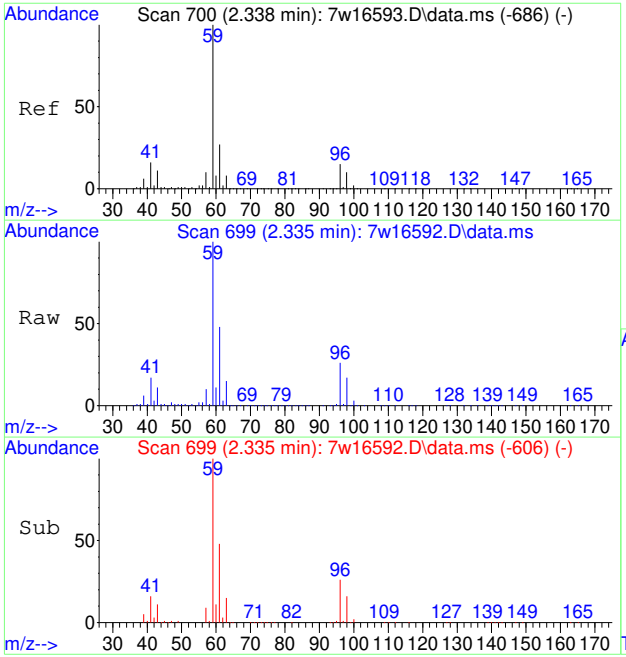


#34
TRANS-1,2-DICHLOROETHENE
Concen: 35.87 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 441405

Ion	Ratio	Lower	Upper
96	100		
61	167.8	119.6	222.0
98	63.6	44.9	83.5

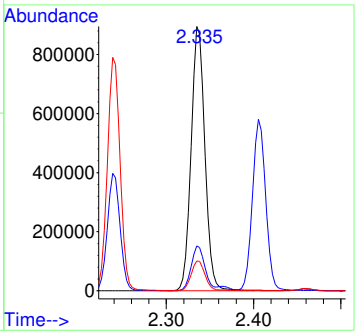


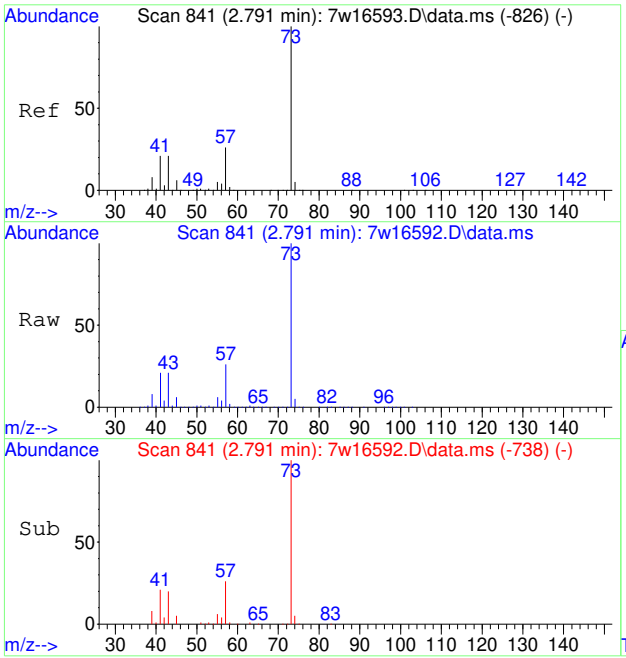


#35
TERTIARY BUTYL ALCOHOL
Concen: 31.02 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 985604

Ion	Ratio	Lower	Upper
59	100		
41	18.1	12.9	23.9
43	11.4	8.0	14.8

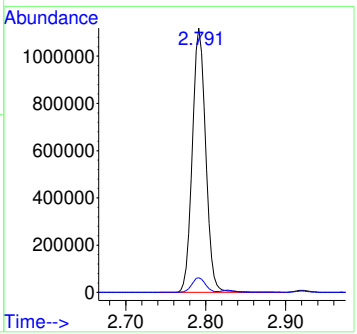


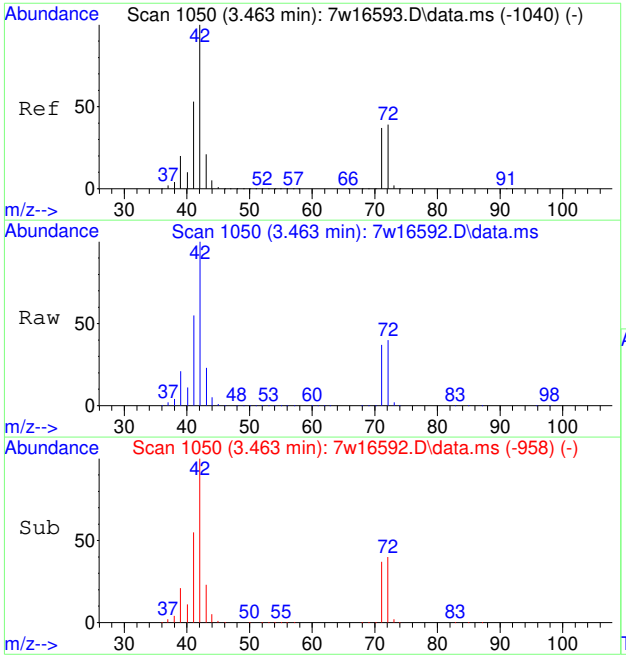


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.36 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 73 Resp: 1301474

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

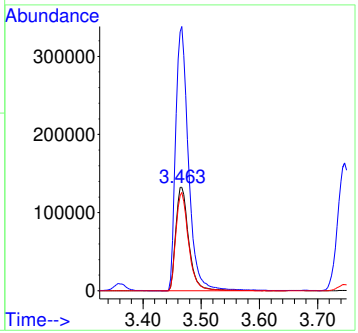


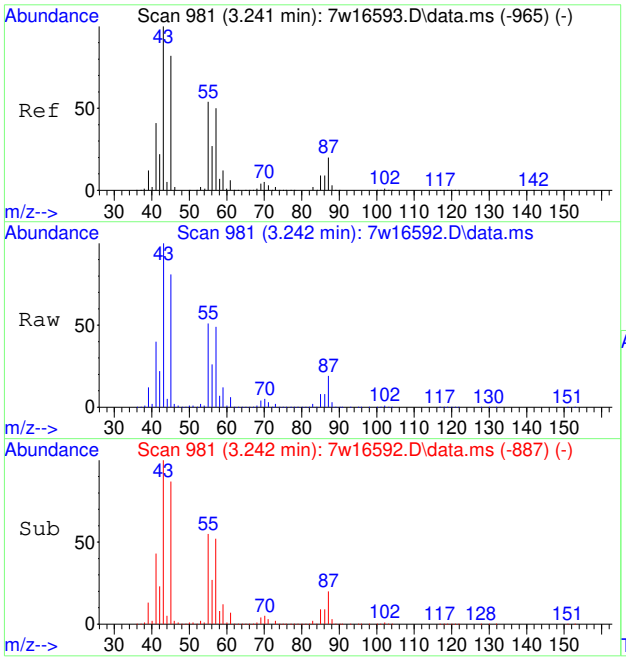


#37
TETRAHYDROFURAN
Concen: 36.97 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 204769

Ion	Ratio	Lower	Upper
72	100		
42	252.8	180.3	334.8
71	93.1	65.8	122.2

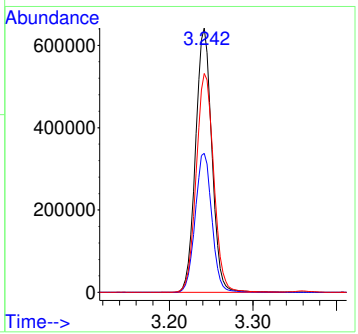


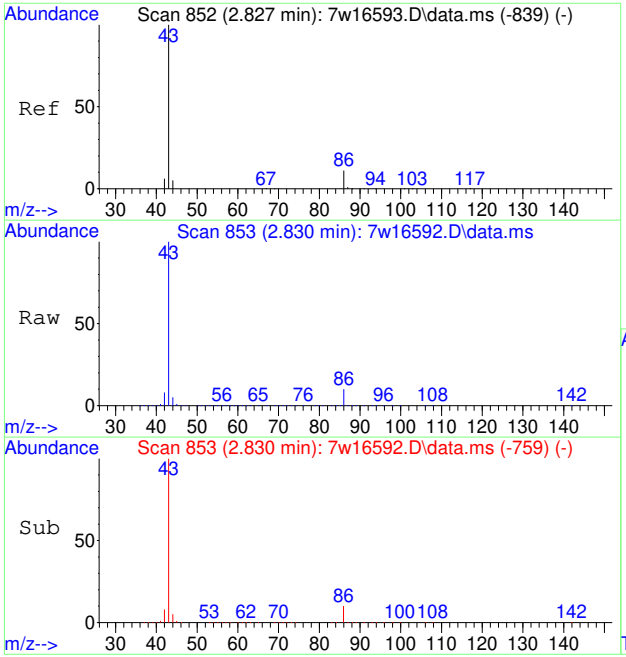


#38
HEXANE
Concen: 36.93 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 870000

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	89.4	65.9	122.5

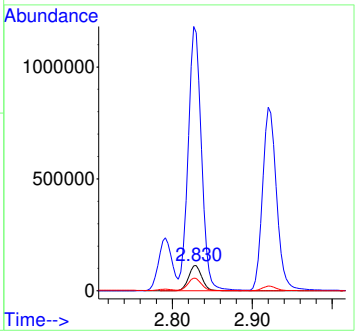


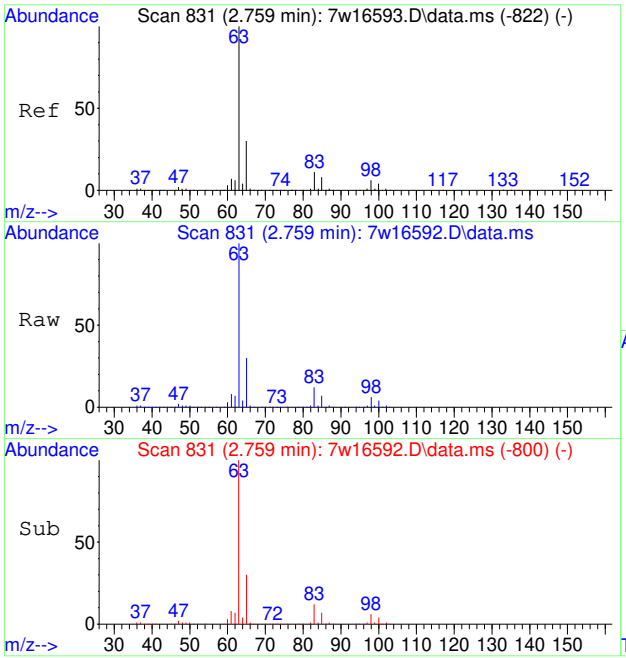


#39
VINYL ACETATE
Concen: 40.25 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 86 Resp: 130550

Ion	Ratio	Lower	Upper
86	100		
43	1050.6	758.7	1408.9
44	50.2	39.5	73.3

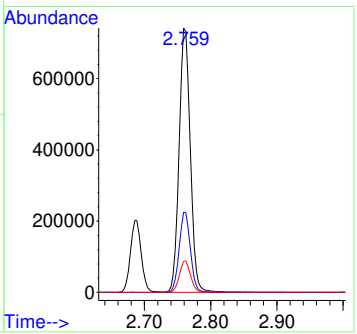


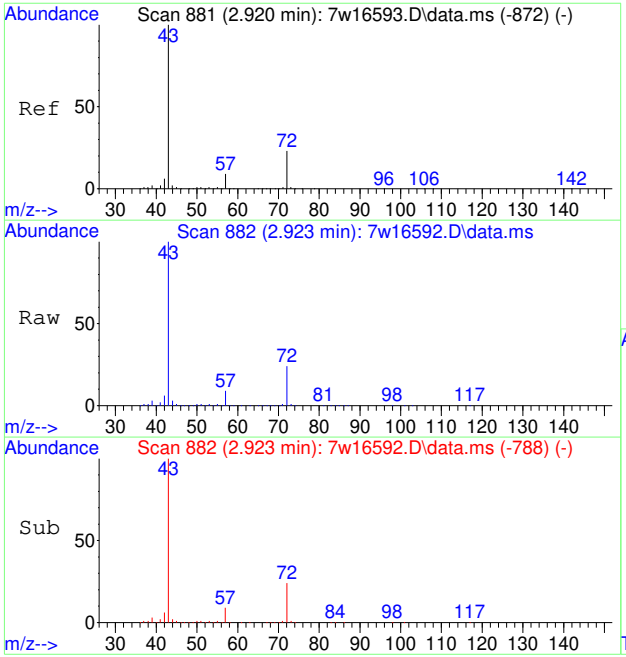


#40
1,1-DICHLOROETHANE
Concen: 37.13 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 876273

Ion	Ratio	Lower	Upper
63	100		
65	30.5	21.4	39.8
83	11.9	8.3	15.5

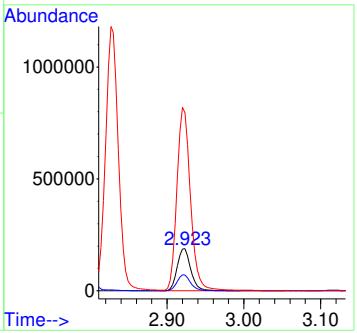


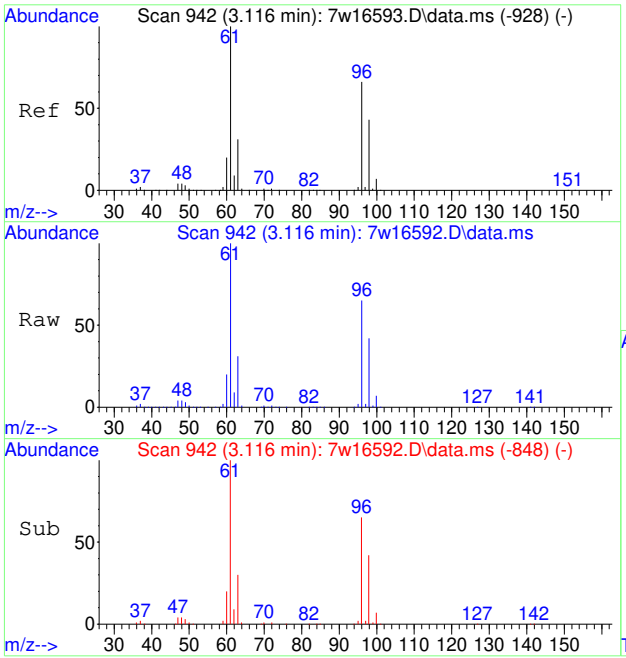


#41
METHYL ETHYL KETONE
Concen: 36.08 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 232500

Ion	Ratio	Lower	Upper
72	100		
57	37.9	26.9	49.9
43	435.4	309.4	574.6

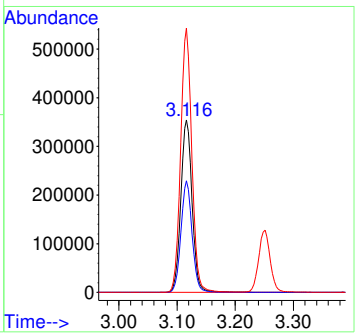


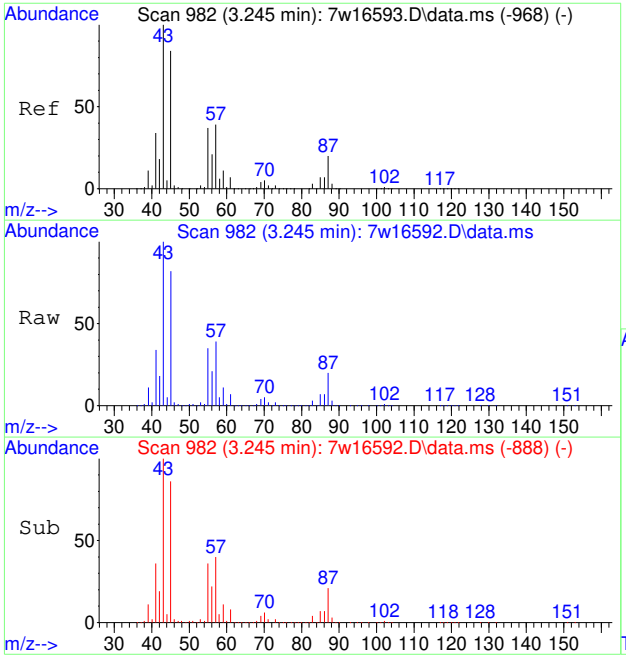


#42
CIS-1,2-DICHLOROETHENE
Concen: 37.74 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 476500

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	151.3	107.3	199.3

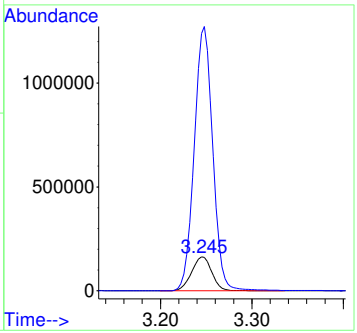


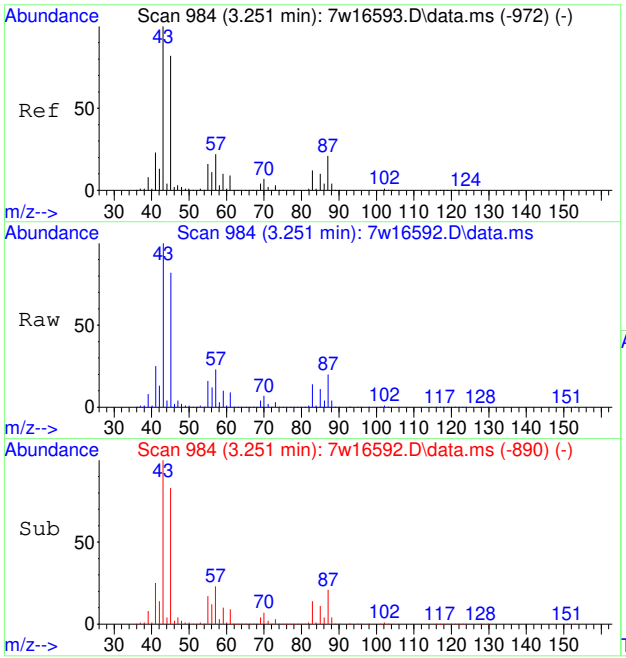


#43
DIISOPROPYL ETHER
Concen: 37.93 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 251965

Ion	Ratio	Lower	Upper
59	100		
45	711.3	517.6	961.2

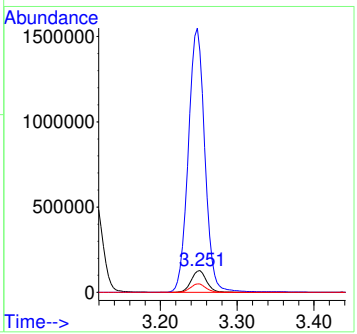


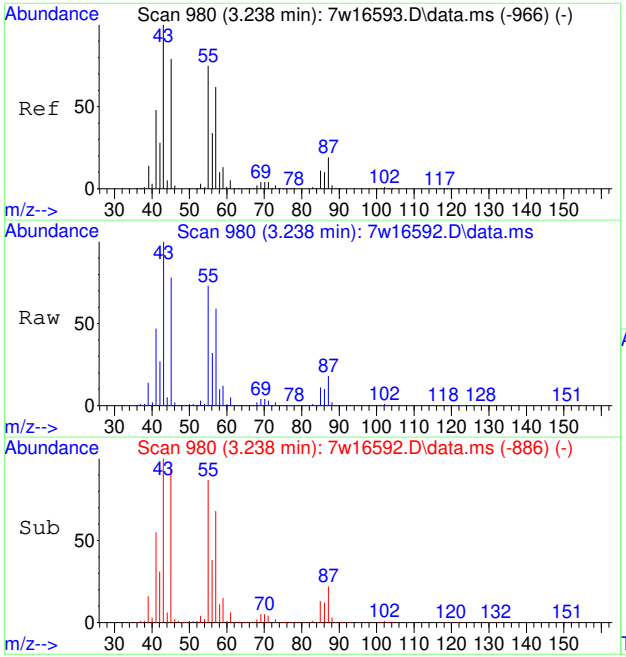


#44
ETHYL ACETATE
Concen: 40.87 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 61 Resp: 179704

Ion	Ratio	Lower	Upper
61	100		
43	1294.1	955.4	1774.4
88	39.7	27.6	51.2

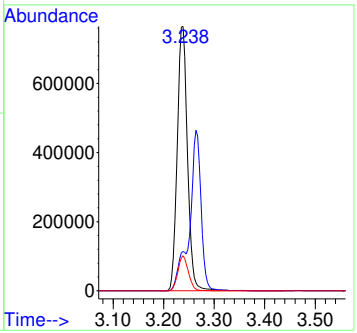


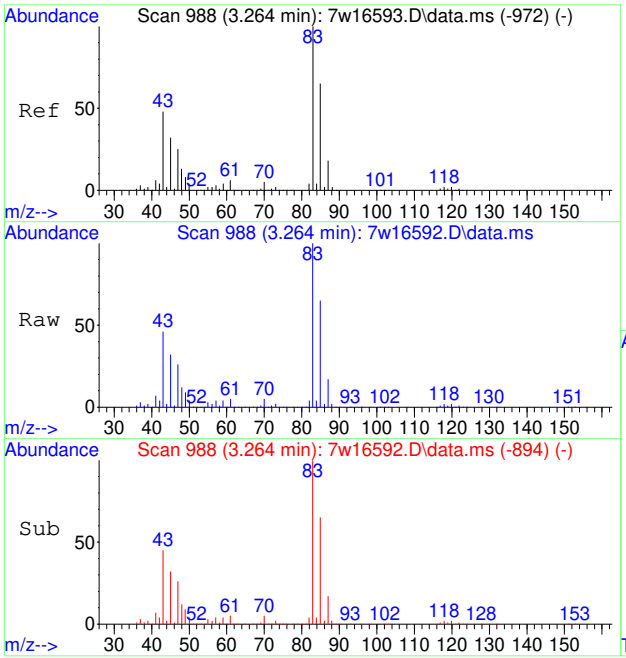


#45
METHYL ACRYLATE
Concen: 38.25 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1081547

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

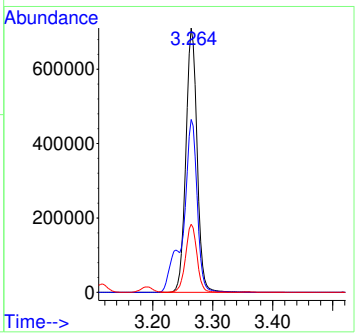


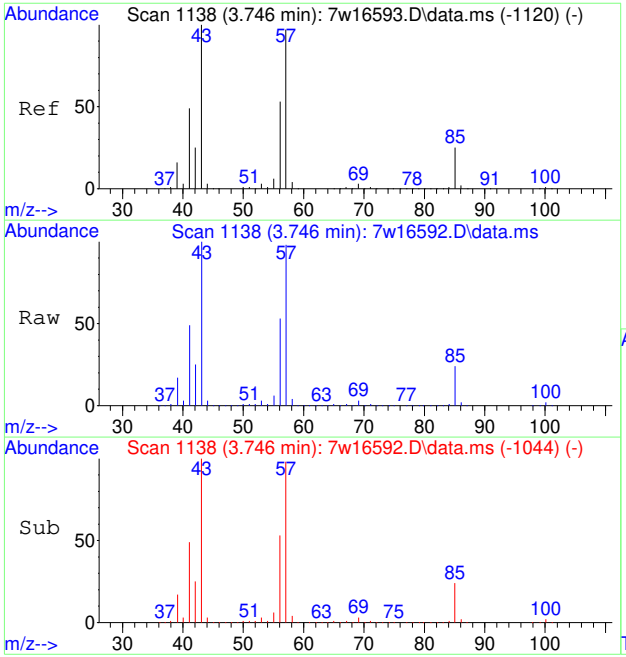


#46
CHLOROFORM
Concen: 37.55 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 920953

Ion	Ratio	Lower	Upper
83	100		
85	81.3	56.0	104.0
47	26.3	19.0	35.4

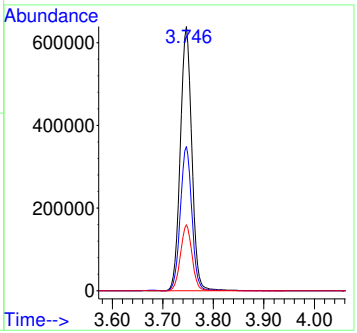


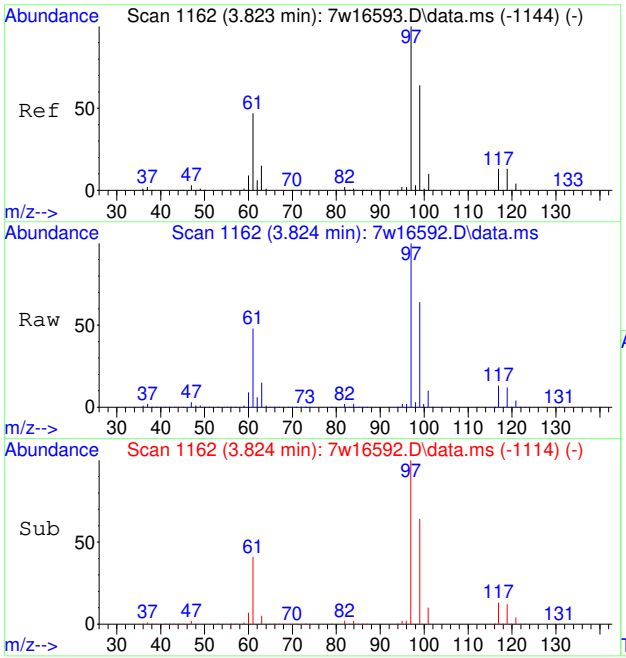


#47
2,4-DIMETHYLPENTANE
Concen: 38.86 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 1014851

Ion	Ratio	Lower	Upper
57	100		
56	54.9	38.4	71.2
85	25.2	17.5	32.5

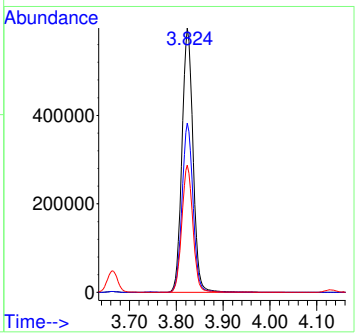


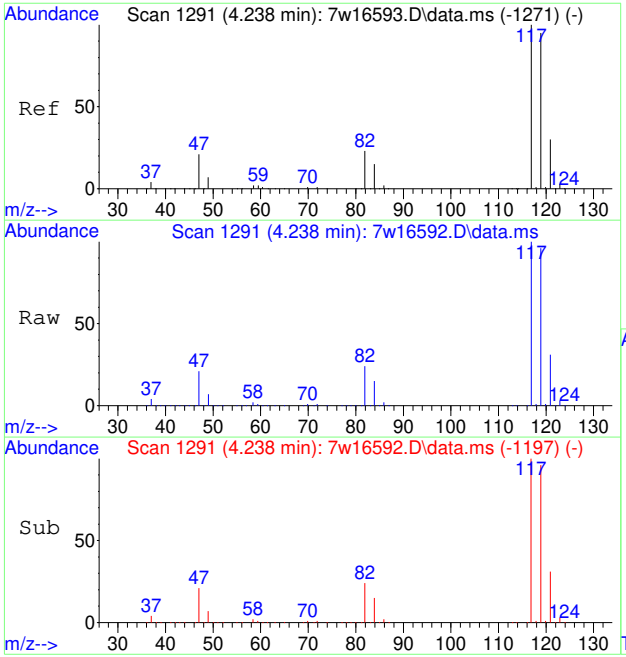


#48
1,1,1-TRICHLOROETHANE
Concen: 38.31 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 97 Resp: 979950

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	48.2	34.7	64.5

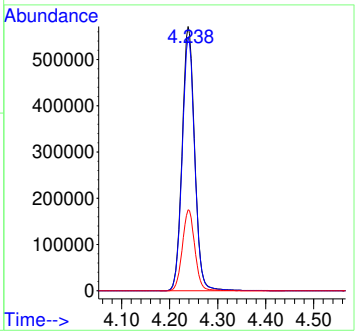


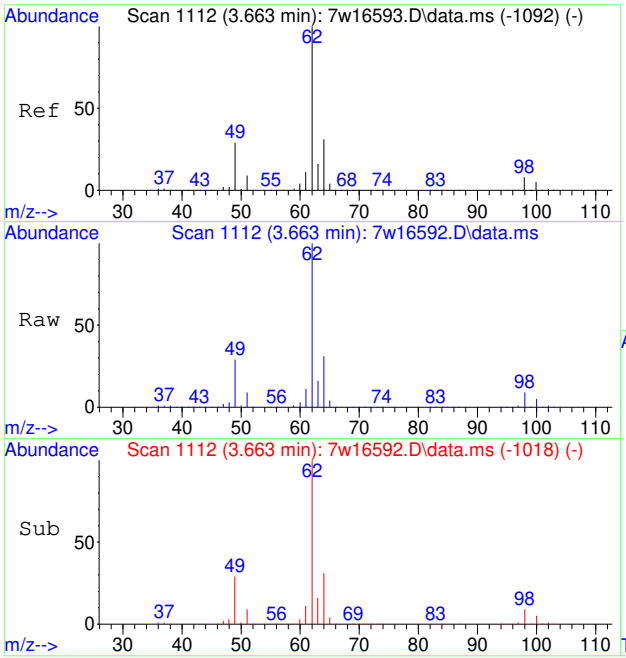


#49
CARBON TETRACHLORIDE
Concen: 39.82 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 1037151

Ion	Ratio	Lower	Upper
117	100		
119	96.3	67.5	125.3
121	30.6	21.3	39.5

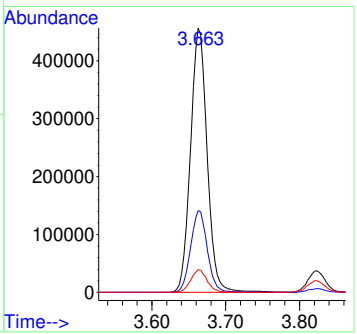


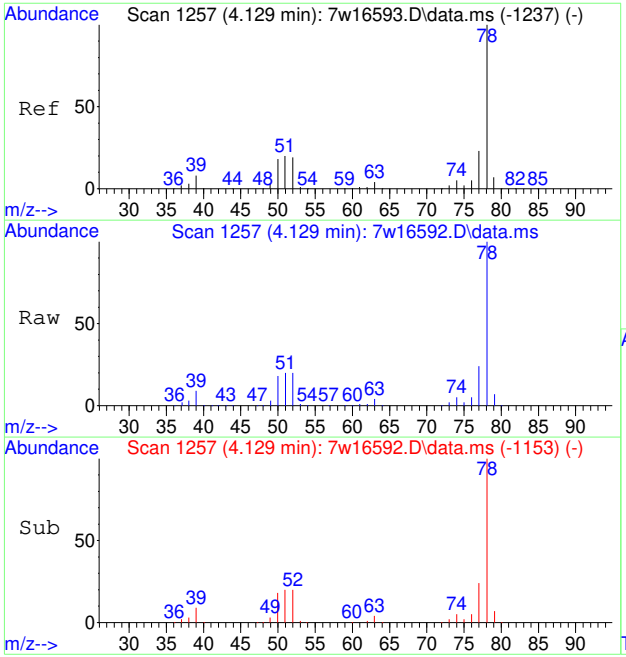


#50
1,2-DICHLOROETHANE
Concen: 37.86 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 713561

Ion	Ratio	Lower	Upper
62	100		
64	31.2	21.8	40.6
98	8.5	5.8	10.8

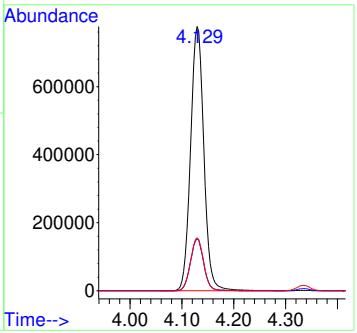


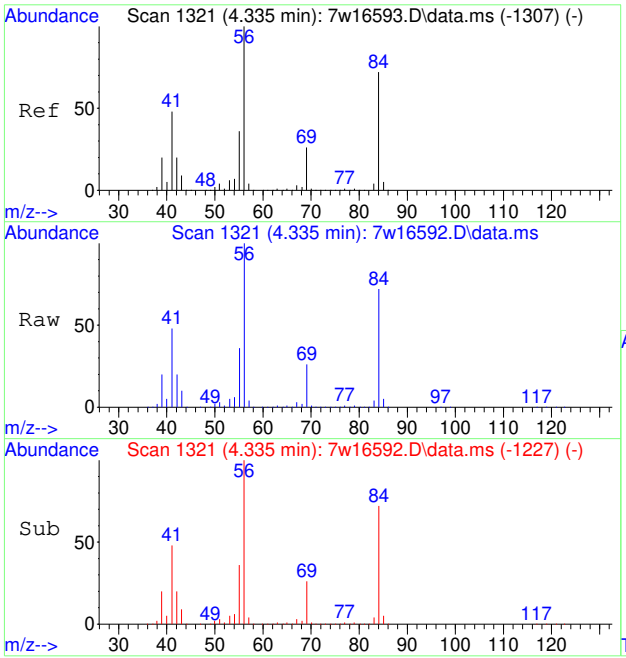


#51
BENZENE
Concen: 36.79 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 78 Resp: 1384237

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	49.9
51	20.0	0.0	50.6

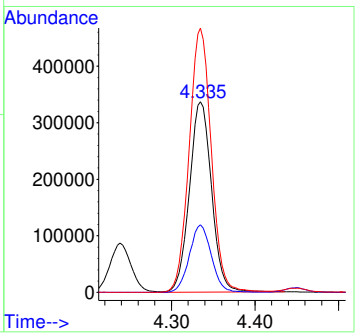


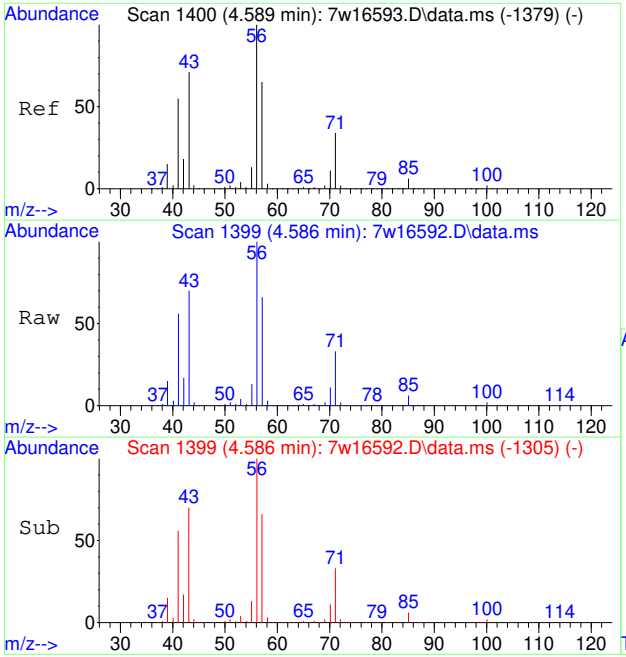


#53
CYCLOHEXANE
Concen: 38.40 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 620038

Ion	Ratio	Lower	Upper
84	100		
69	35.4	24.6	45.6
56	139.1	96.4	179.0

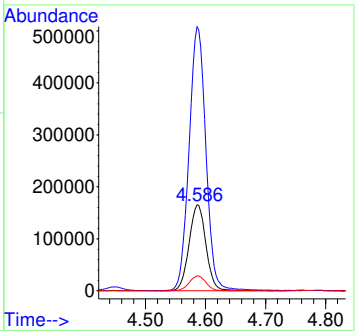


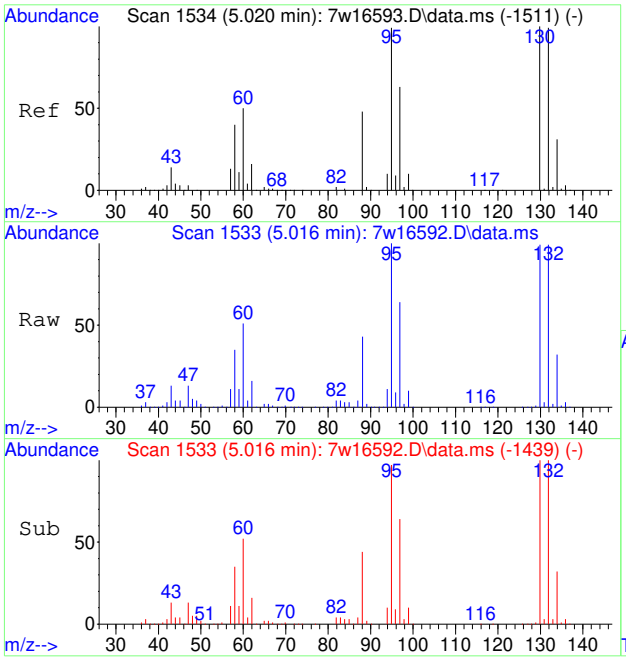


#54
2,3-DIMETHYLPENTANE
Concen: 40.82 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 71 Resp: 325381

Ion	Ratio	Lower	Upper
71	100		
56	304.4	213.2	396.0
85	17.4	12.2	22.6

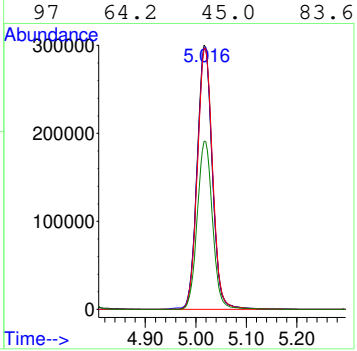


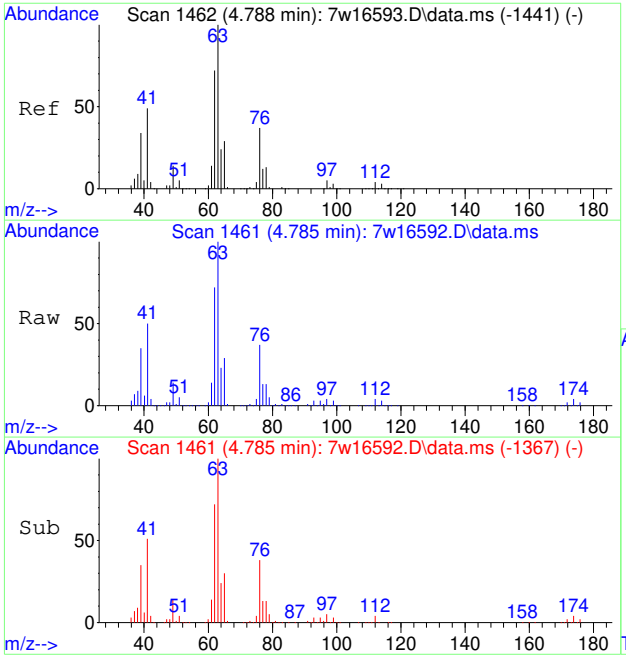


#55
TRICHLOROETHENE
Concen: 36.24 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 95 Resp: 627429

Ion	Ratio	Lower	Upper
95	100		
130	99.8	69.4	129.0
132	99.3	69.4	128.8
97	64.2	45.0	83.6

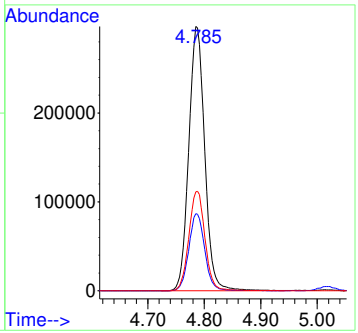


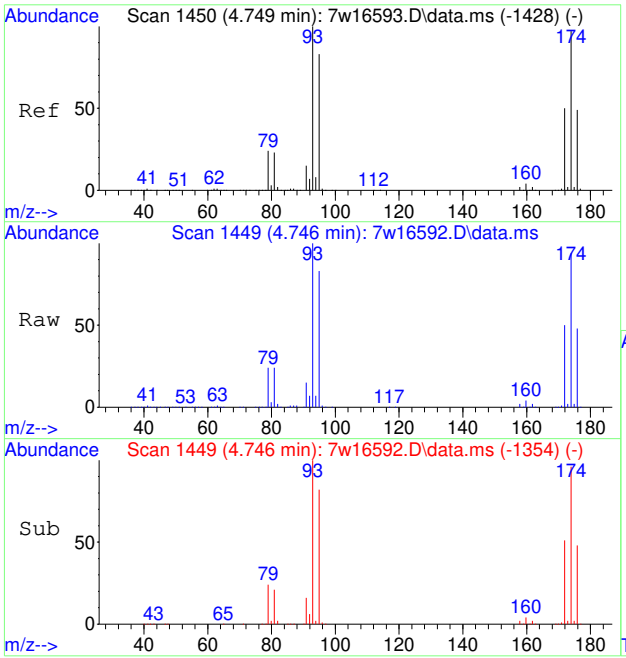


#56
1,2-DICHLOROPROPANE
Concen: 38.36 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 583236

Ion	Ratio	Lower	Upper
63	100		
65	29.4	20.5	38.1
76	38.3	27.1	50.3

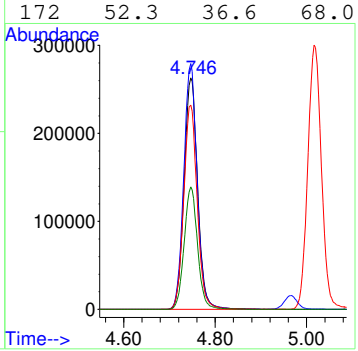


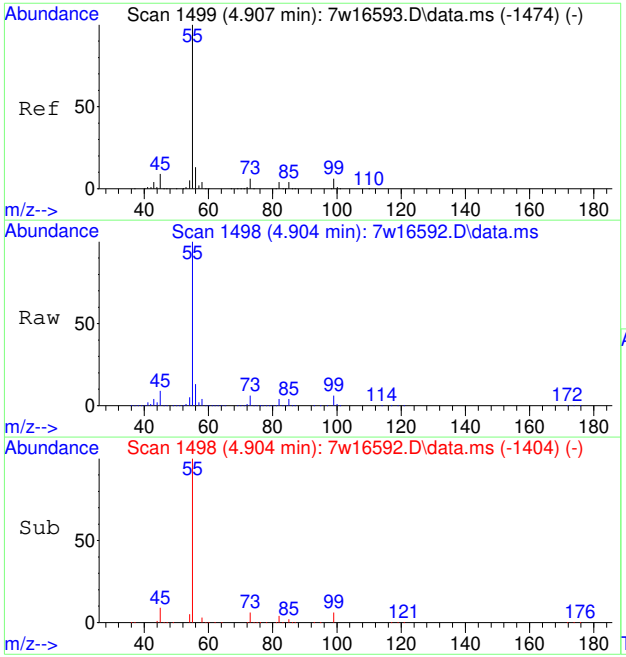


#57
DIBROMOMETHANE
Concen: 36.49 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:174 Resp: 542289

Ion	Ratio	Lower	Upper
174	100		
93	105.2	75.3	139.9
95	88.2	62.4	115.8
172	52.3	36.6	68.0

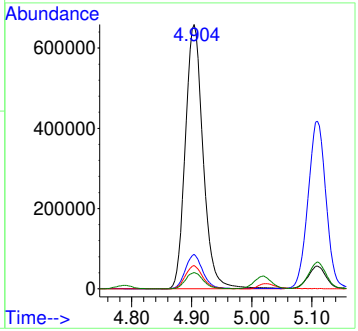


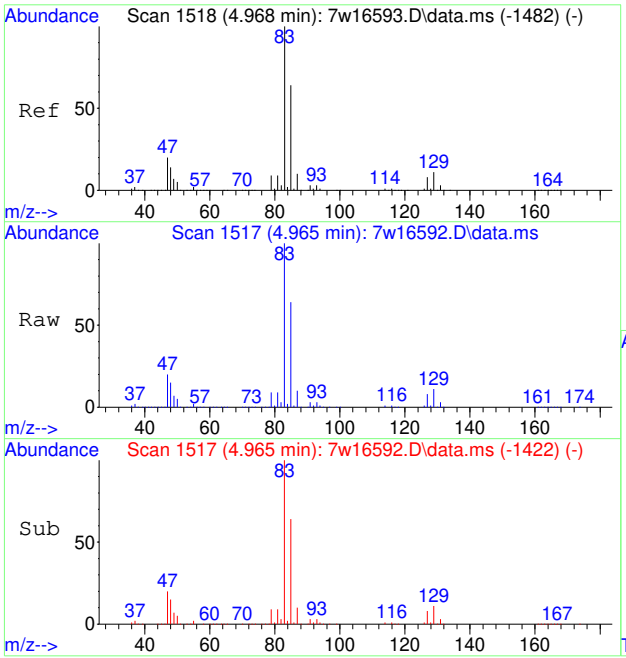


#58
ETHYL ACRYLATE
Concen: 40.04 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1354109

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.6	6.1	11.3
99	6.1	4.3	8.1

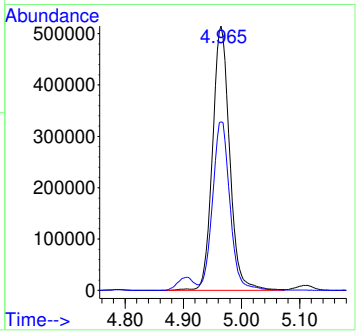


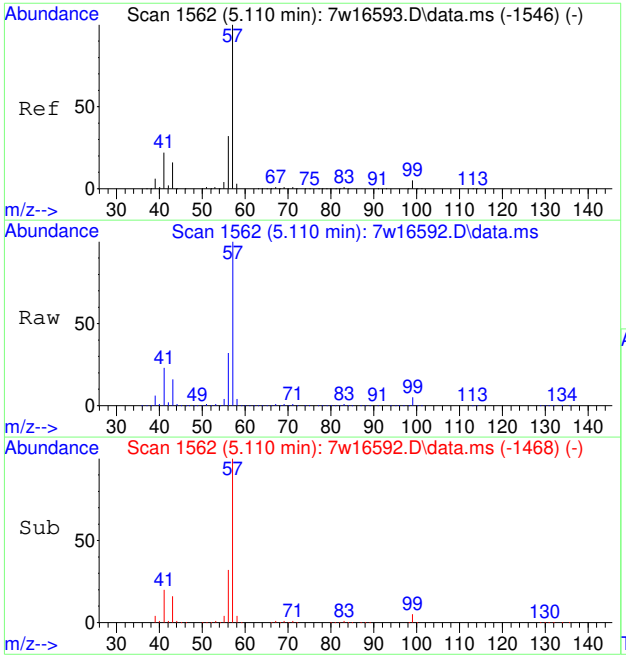


#59
BROMODICHLOROMETHANE
Concen: 38.42 PPBV
RT: 4.965 min Scan# 1517
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1056193

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

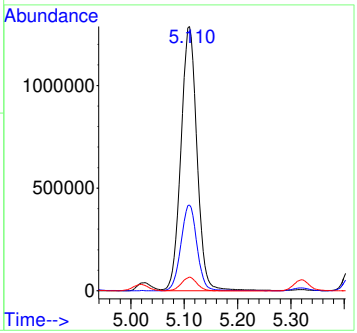


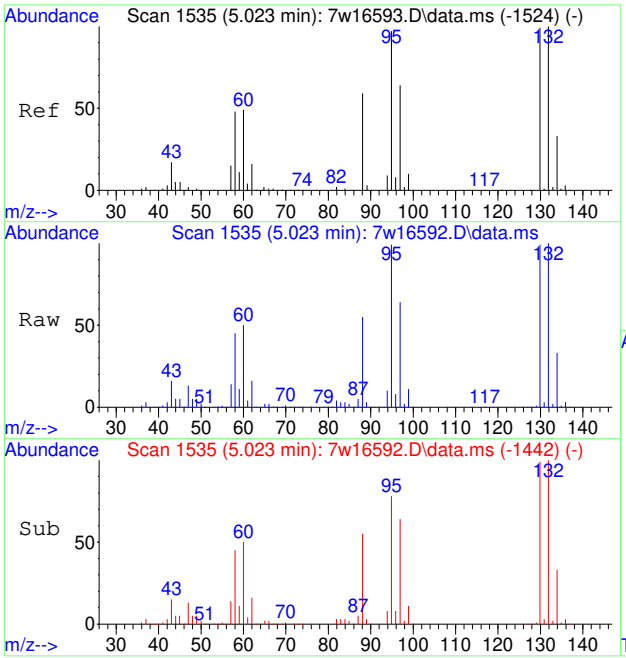


#60
2,2,4-TRIMETHYLPENTANE
Concen: 35.45 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 2697169

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

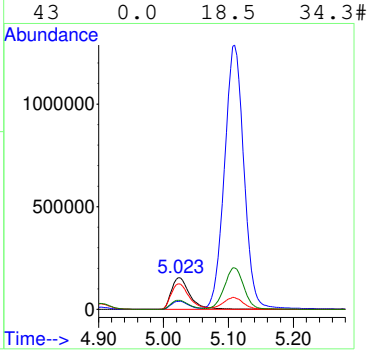


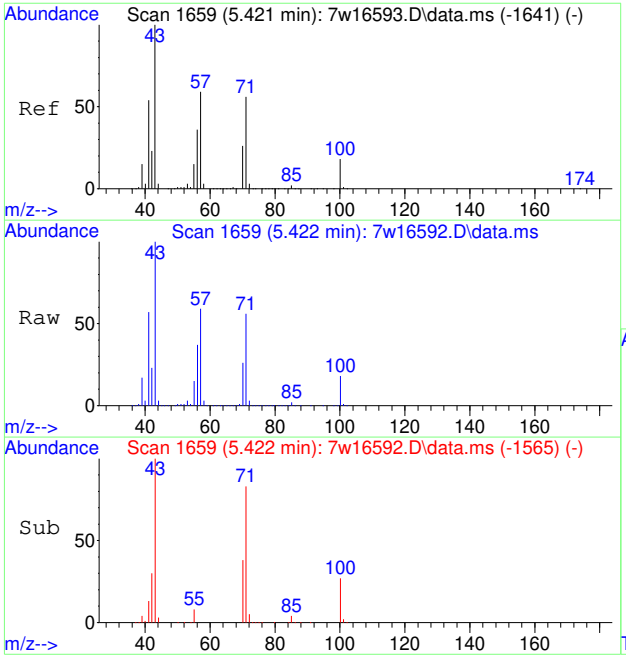


#61
1,4-DIOXANE
Concen: 38.33 PPBV m
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 88 Resp: 307098

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

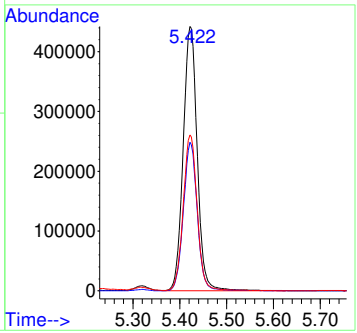


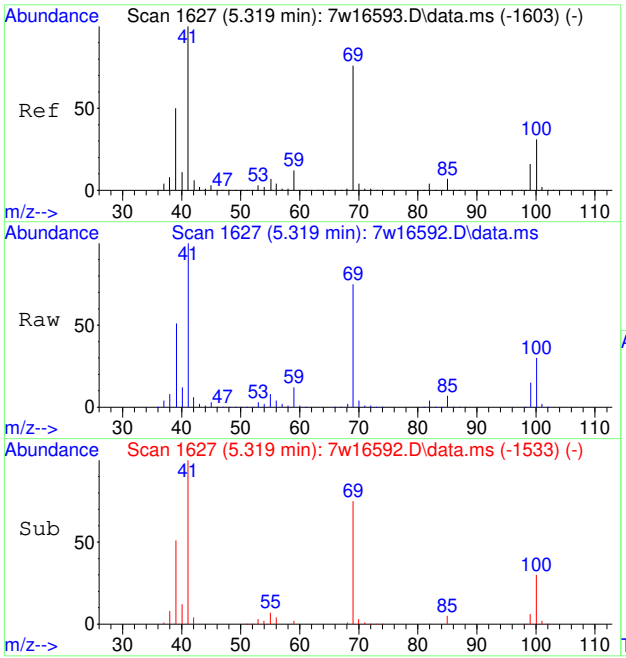


#62
HEPTANE
Concen: 36.76 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 919337

Ion	Ratio	Lower	Upper
43	100		
71	55.6	38.9	72.2
57	59.0	40.5	75.3

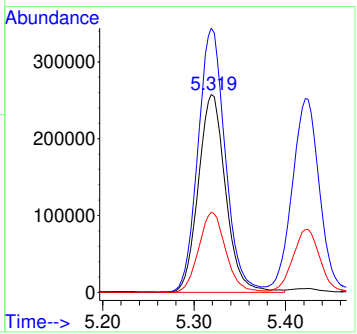


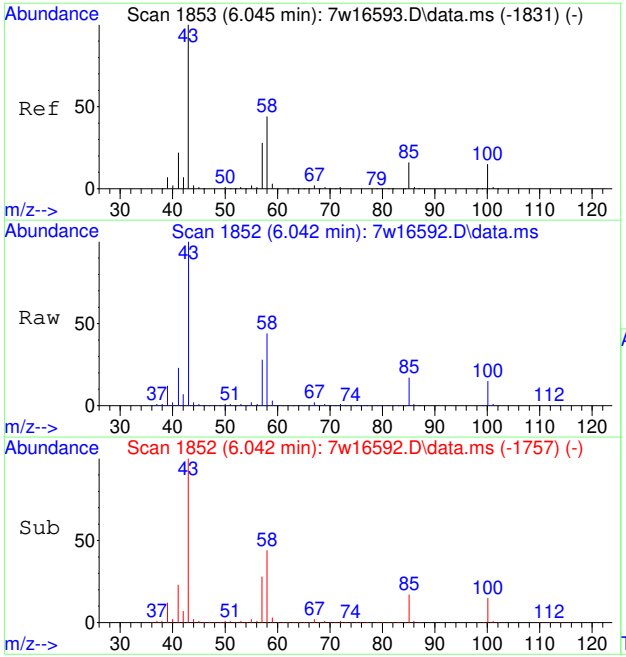


#63
METHYL METHACRYLATE
Concen: 38.93 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 535566

Ion	Ratio	Lower	Upper
69	100		
41	132.0	95.5	177.4
100	40.3	28.1	52.1

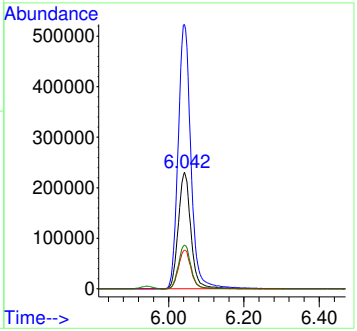


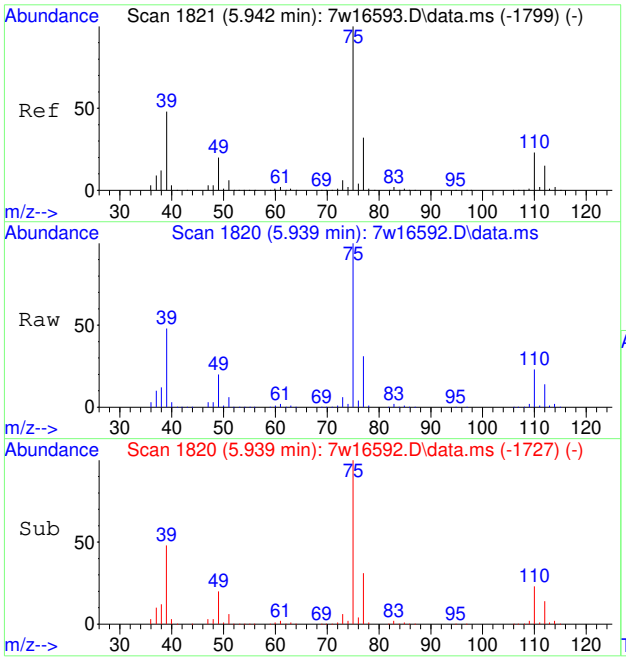


#64
METHYL ISOBUTYL KETONE
Concen: 35.65 PPBV
RT: 6.042 min Scan# 1852
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 535813

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.6	23.2	43.2
85	38.0	26.5	49.3

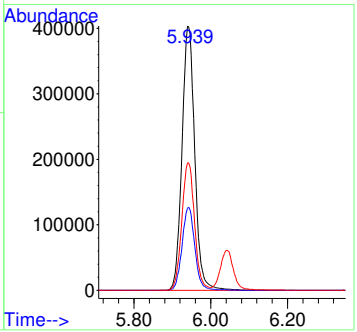


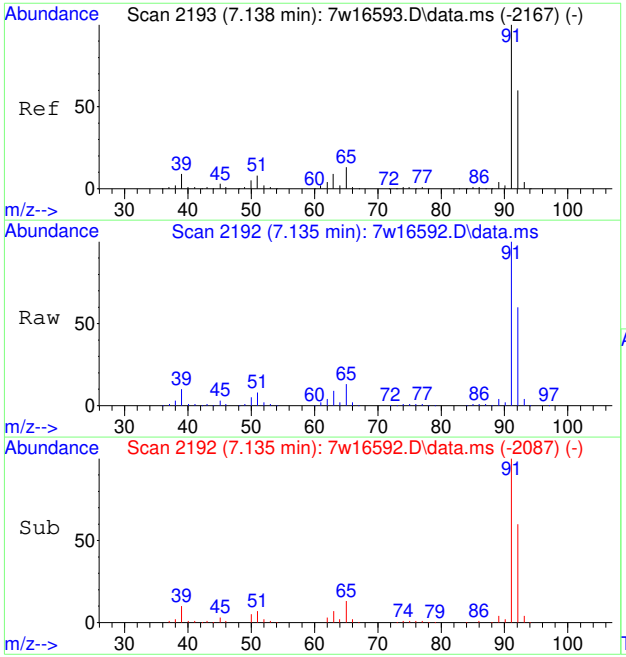


#65
CIS-1,3-DICHLOROPROPENE
Concen: 41.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 931150

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	41.0
39	48.3	35.7	66.3

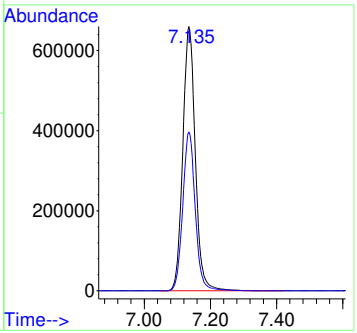


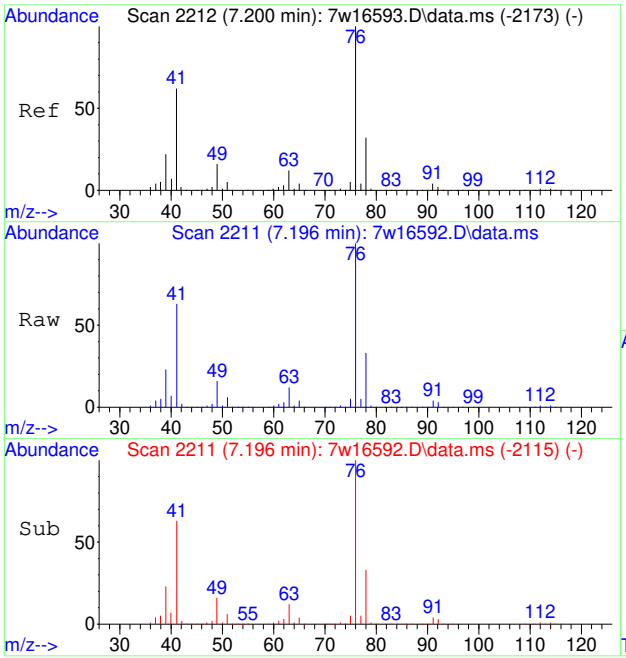


#66
TOLUENE
Concen: 39.79 PPBV
RT: 7.135 min Scan# 2192
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1737506

Ion	Ratio	Lower	Upper
91	100		
92	60.0	30.3	90.3

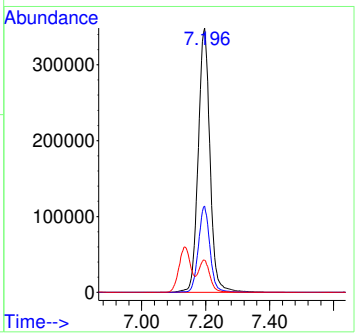


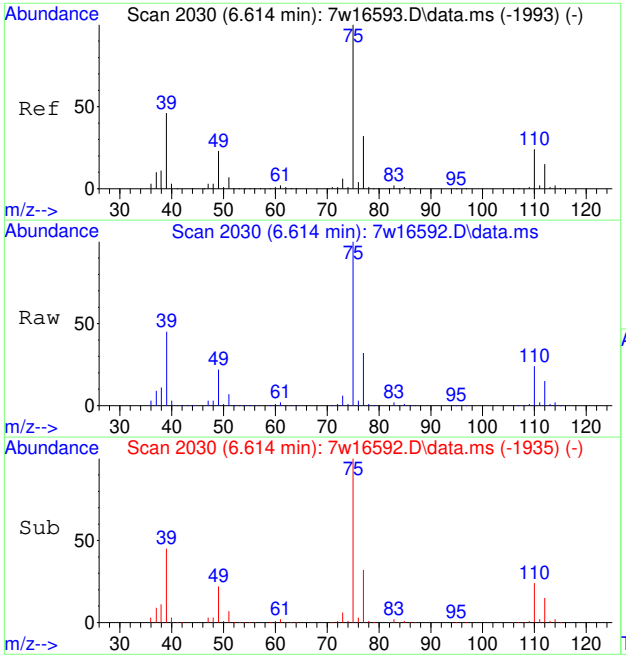


#67
1,3-DICHLOROPROPANE
Concen: 40.85 PPBV
RT: 7.196 min Scan# 2211
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 888887

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.1	8.3	15.5

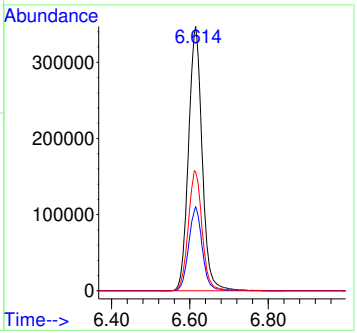


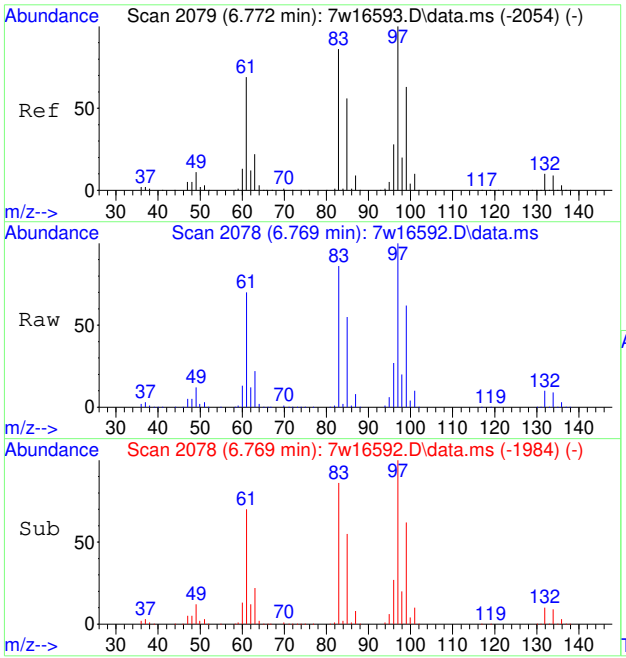


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 41.75 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 837419

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	46.3	33.9	63.0

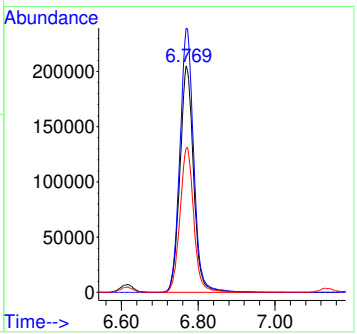


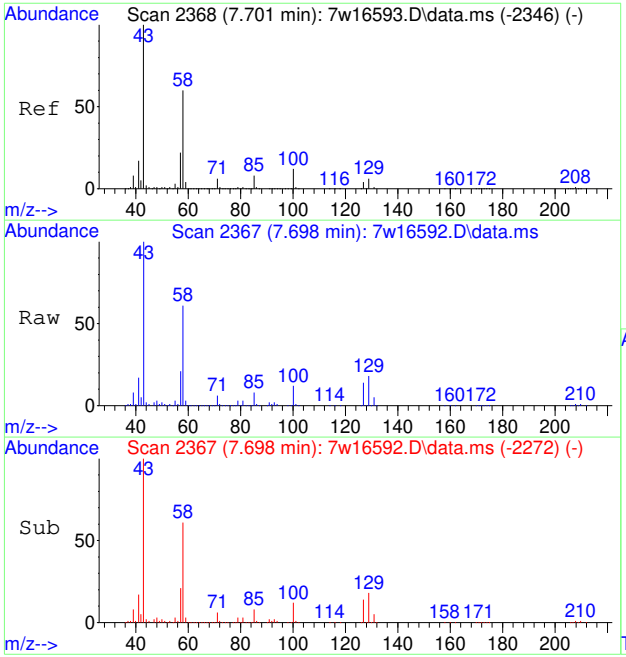


#69
1,1,2-TRICHLOROETHANE
Concen: 41.21 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 506821

Ion	Ratio	Lower	Upper
83	100		
97	117.2	81.2	150.8
85	64.6	45.1	83.7

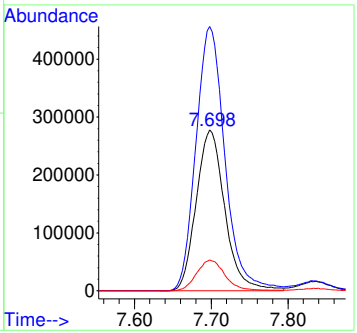


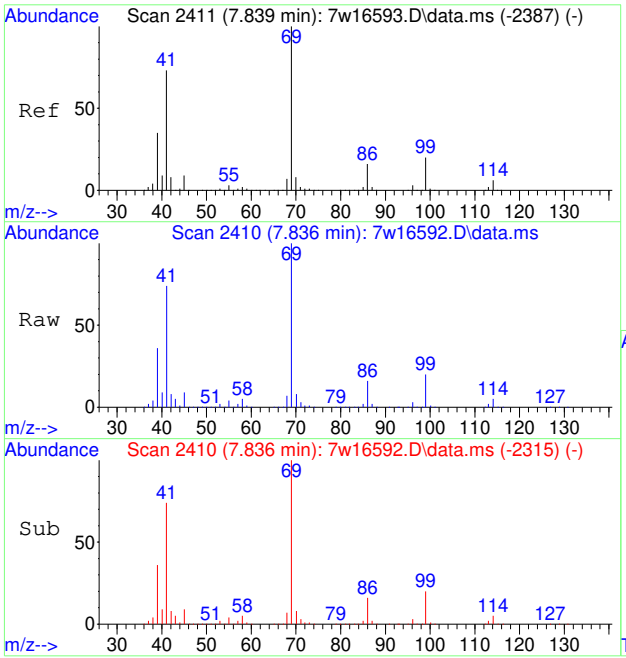


#70
2-HEXANONE
Concen: 33.68 PPBV
RT: 7.698 min Scan# 2367
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 721391

Ion	Ratio	Lower	Upper
58	100		
43	166.0	118.6	220.2
100	19.1	13.0	24.2

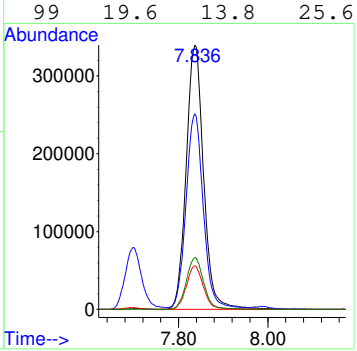


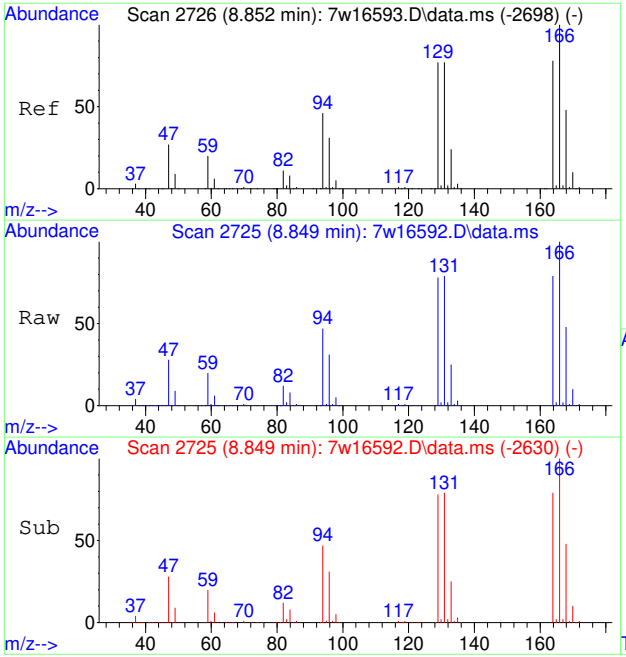


#71
ETHYL METHACRYLATE
Concen: 40.41 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 919855

Ion	Ratio	Lower	Upper
69	100		
41	72.3	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

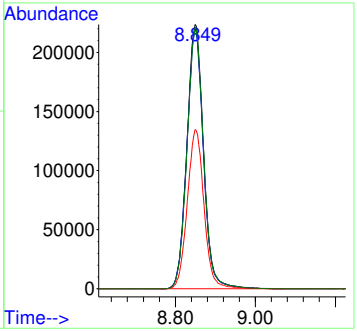


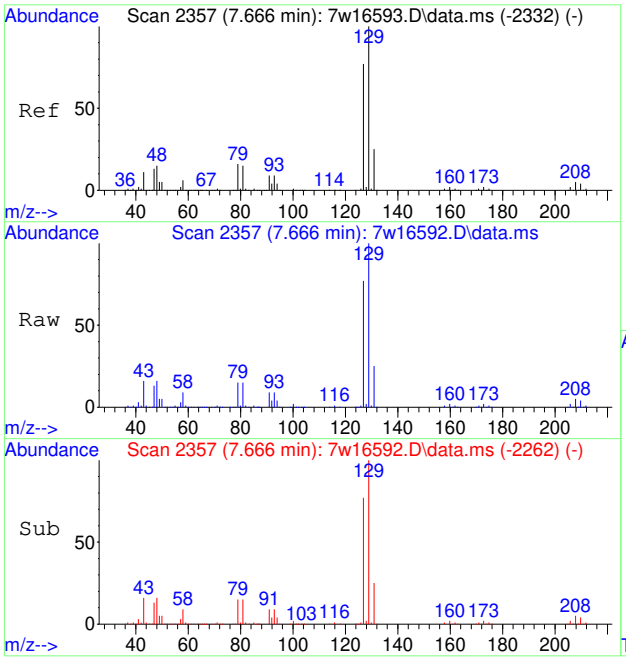


#72
TETRACHLOROETHENE
Concen: 40.75 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:164 Resp: 647021

Ion	Ratio	Lower	Upper
164	100		
129	98.1	69.6	129.2
168	60.5	42.5	78.9
131	98.3	69.4	129.0

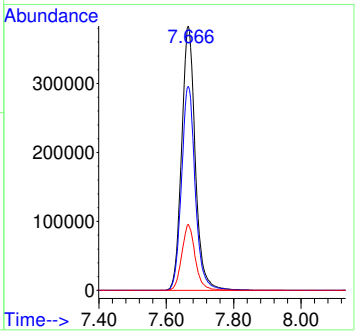


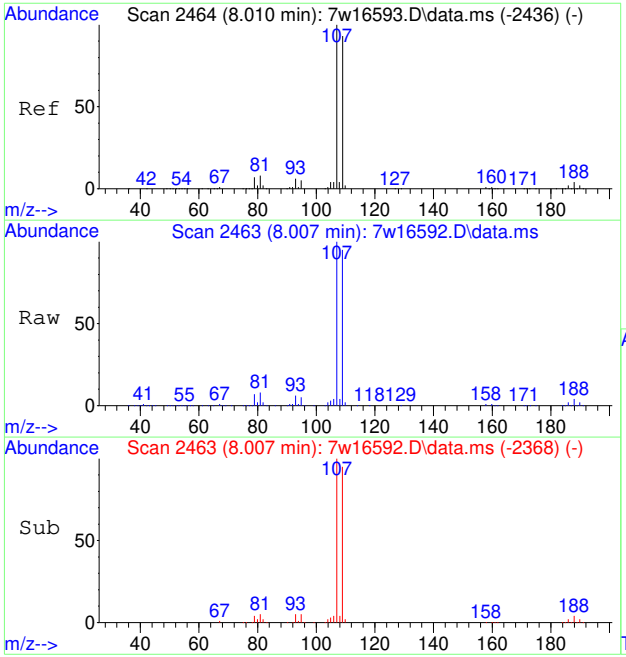


#73
DIBROMOCHLOROMETHANE
Concen: 44.36 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:129 Resp: 1078202

Ion	Ratio	Lower	Upper
129	100		
127	77.9	54.7	101.7
131	24.7	17.4	32.4

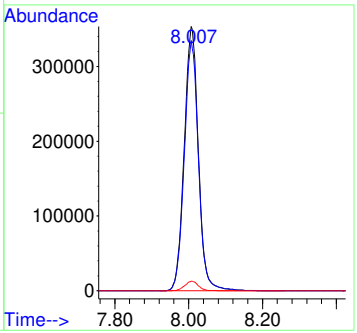


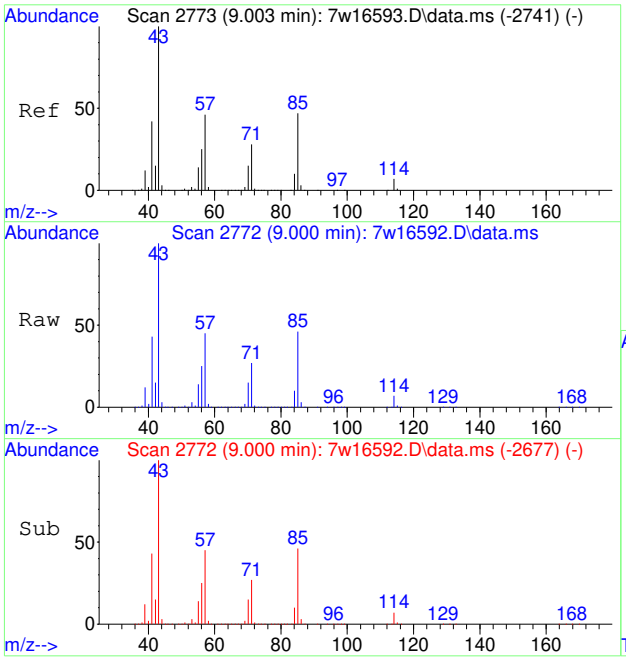


#74
1,2-DIBROMOETHANE
Concen: 41.96 PPBV
RT: 8.007 min Scan# 2463
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:107 Resp: 940297

Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.1	122.8
188	3.6	2.5	4.6

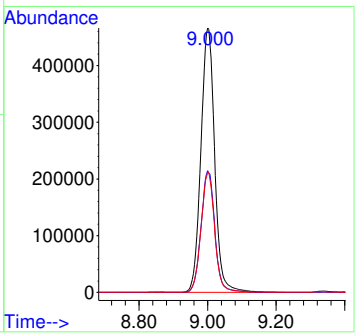


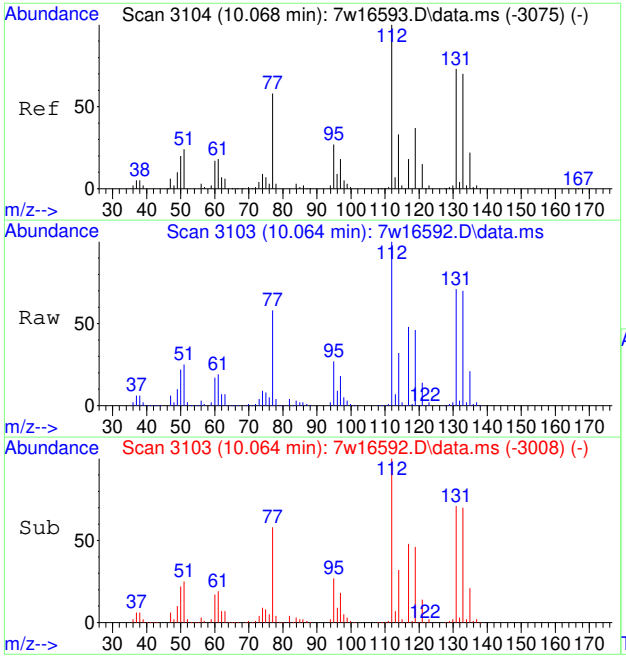


#75
OCTANE
Concen: 39.19 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1299991

Ion	Ratio	Lower	Upper
43	100		
85	46.1	31.8	59.0
57	45.0	31.4	58.2

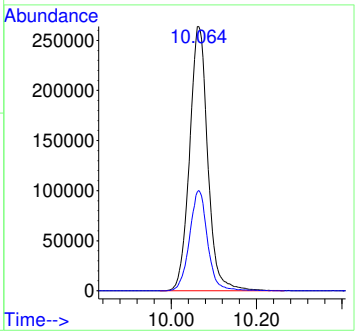


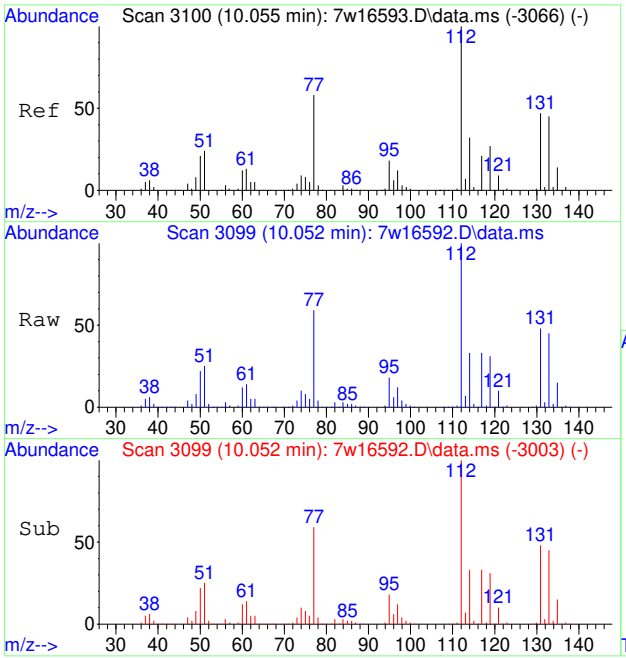


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 43.93 PPBV
RT: 10.064 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:131 Resp: 780177

Ion	Ratio	Lower	Upper
131	100		
95	37.8	26.5	49.1

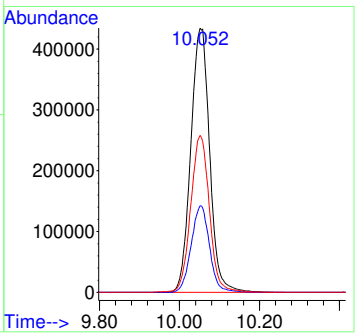


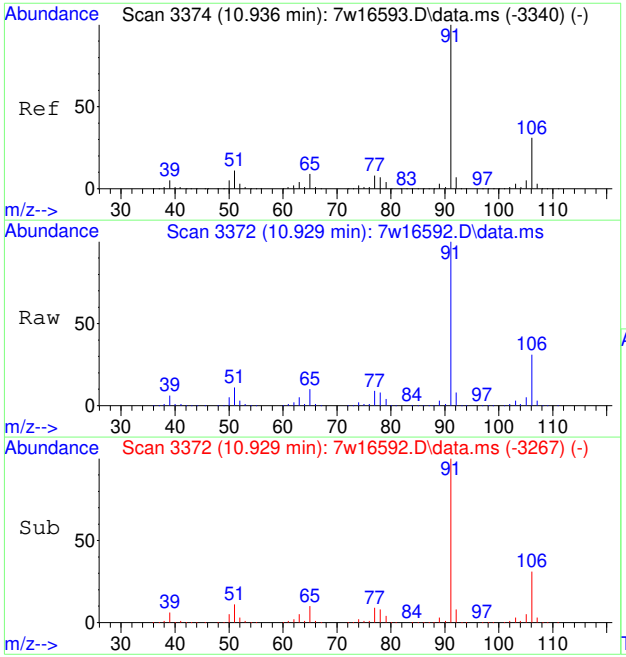


#78
CHLOROBENZENE
Concen: 41.32 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:112 Resp: 1423127

Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	59.0	42.1	78.1

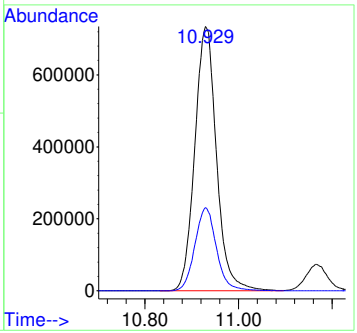


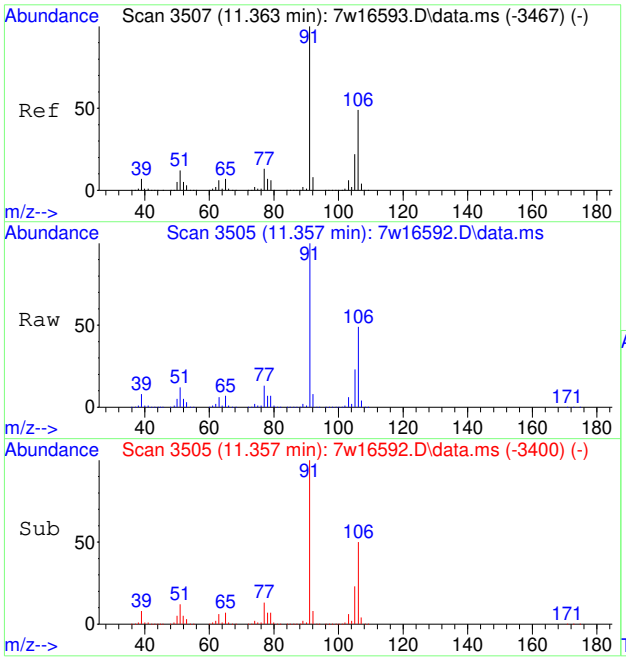


#79
ETHYLBENZENE
Concen: 41.92 PPBV
RT: 10.929 min Scan# 3372
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2363041

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

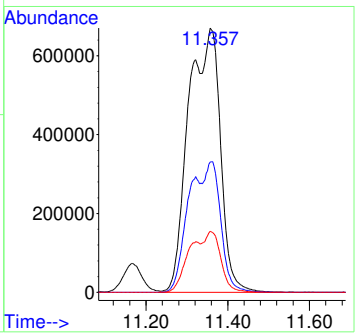


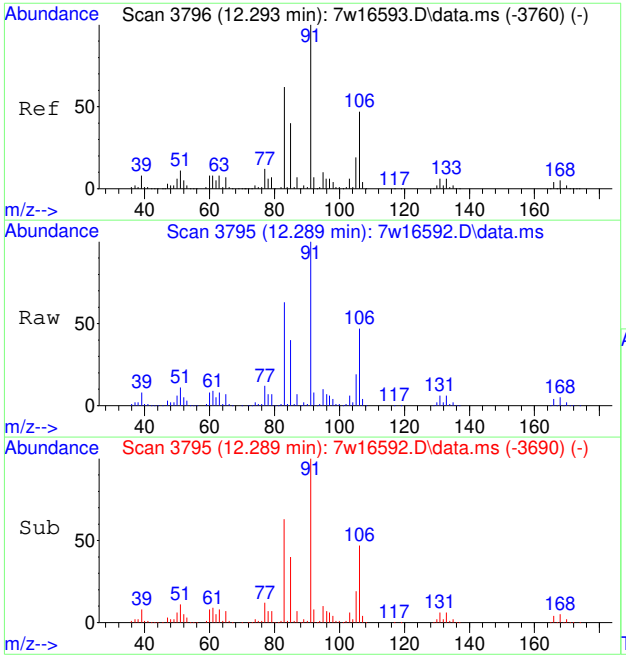


#80
M,P-XYLENE
Concen: 78.82 PPBV
RT: 11.357 min Scan# 3505
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 3630117

Ion	Ratio	Lower	Upper
91	100		
106	25.9	0.0	56.1
105	13.4	0.0	42.1

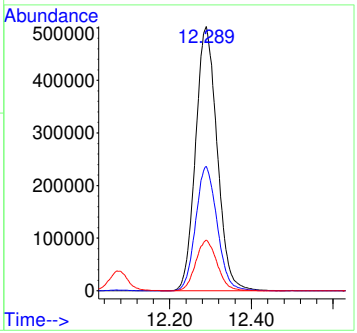


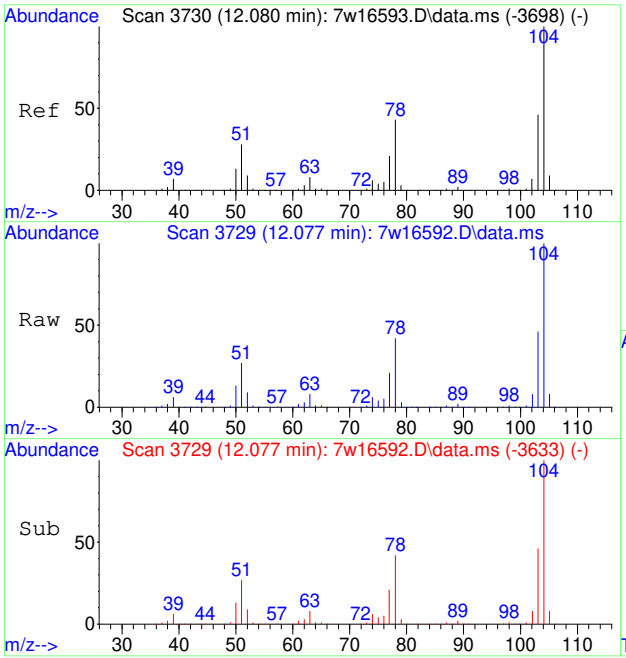


#81
O-XYLENE
Concen: 41.40 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1842699

Ion	Ratio	Lower	Upper
91	100		
106	47.1	31.8	59.0
105	19.2	13.0	24.2

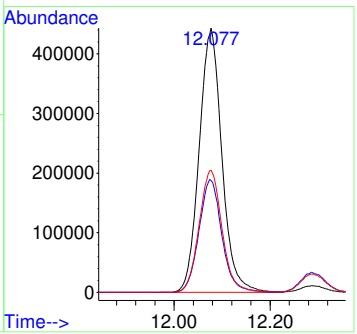


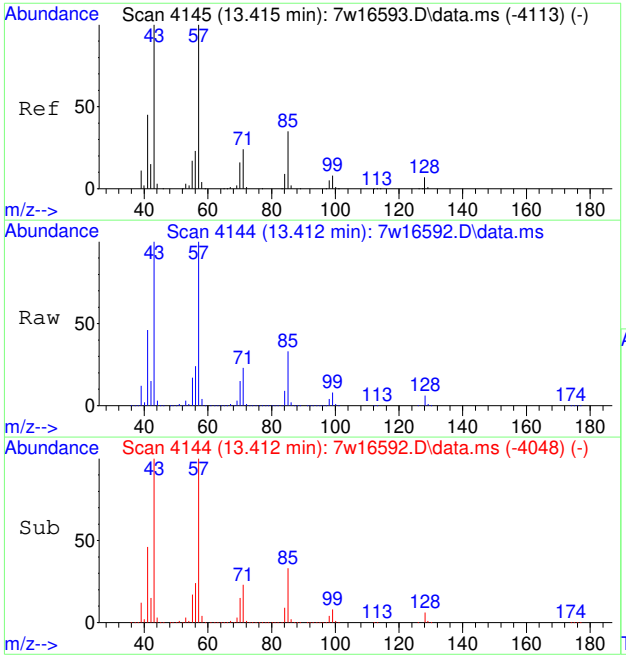


#82
STYRENE
Concen: 44.73 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:104 Resp: 1452853

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.8	32.8	61.0

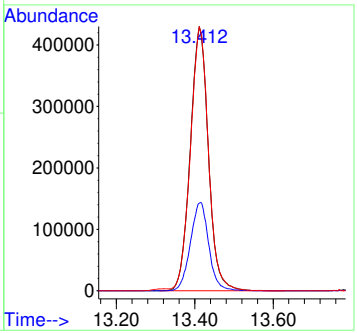


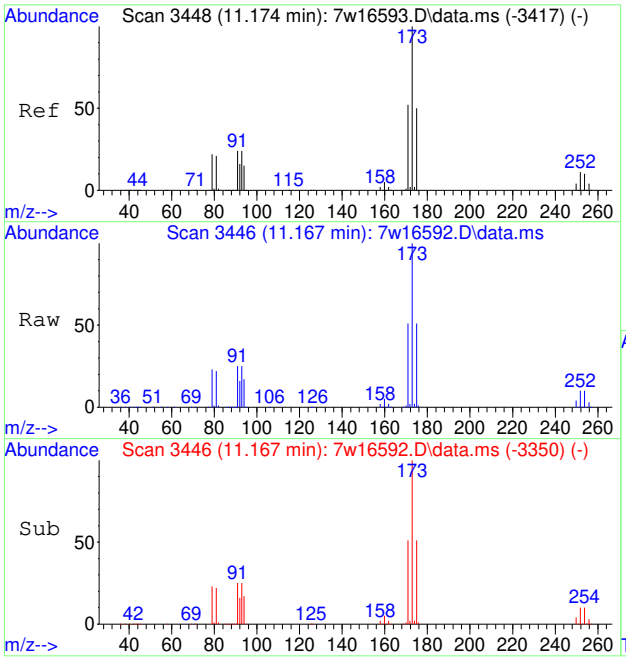


#83
NONANE
Concen: 39.45 PPBV
RT: 13.412 min Scan# 4144
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1380586

Ion	Ratio	Lower	Upper
43	100		
85	33.8	23.4	43.4
57	100.5	69.2	128.6

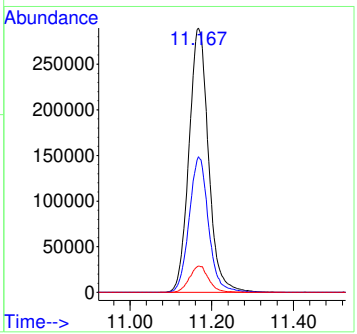


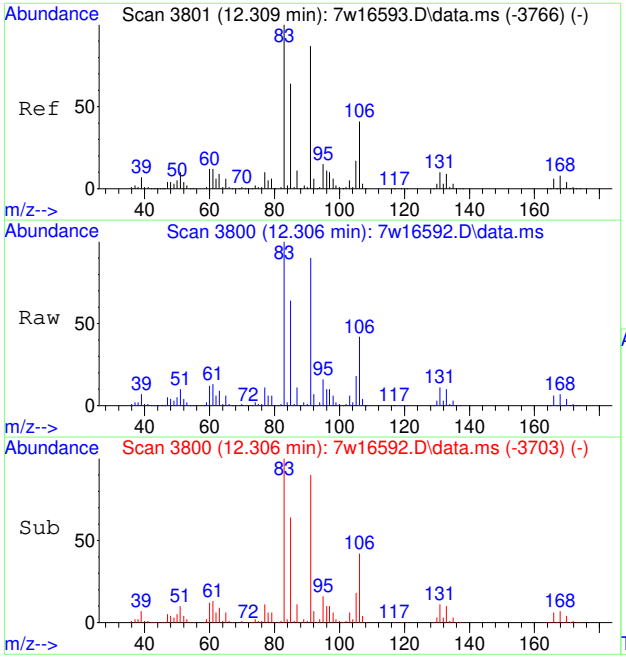


#84
BROMOFORM
Concen: 47.95 PPBV
RT: 11.167 min Scan# 3446
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:173 Resp: 961757

Ion	Ratio	Lower	Upper
173	100		
175	50.8	35.1	65.1
254	9.9	6.7	12.5

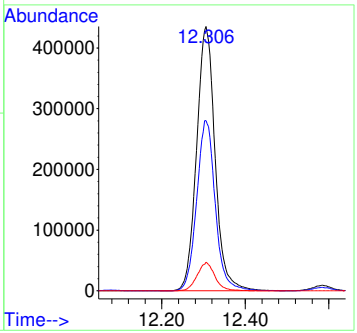


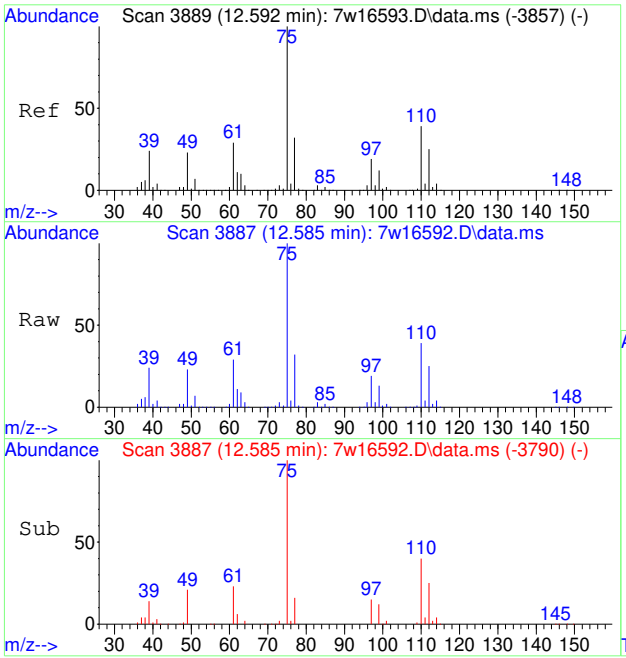


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 42.27 PPBV
RT: 12.306 min Scan# 3800
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1339122

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.4	7.3	13.5

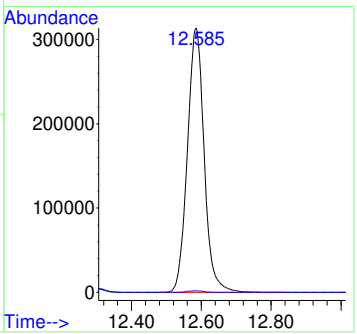


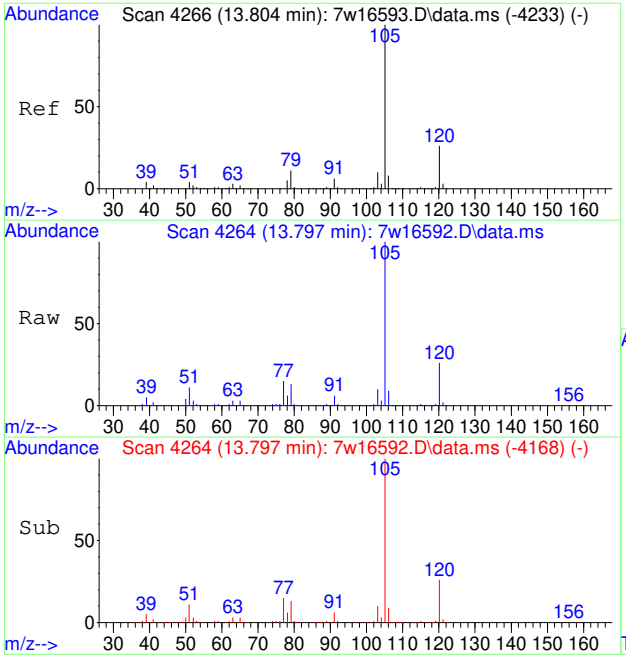


#86
1,2,3-TRICHLOROPROPANE
Concen: 42.19 PPBV
RT: 12.585 min Scan# 3887
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 1047163

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

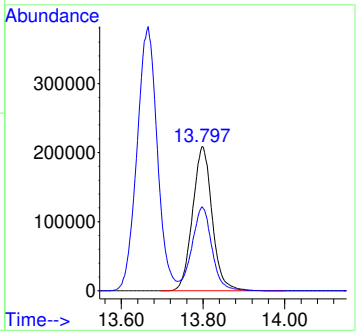


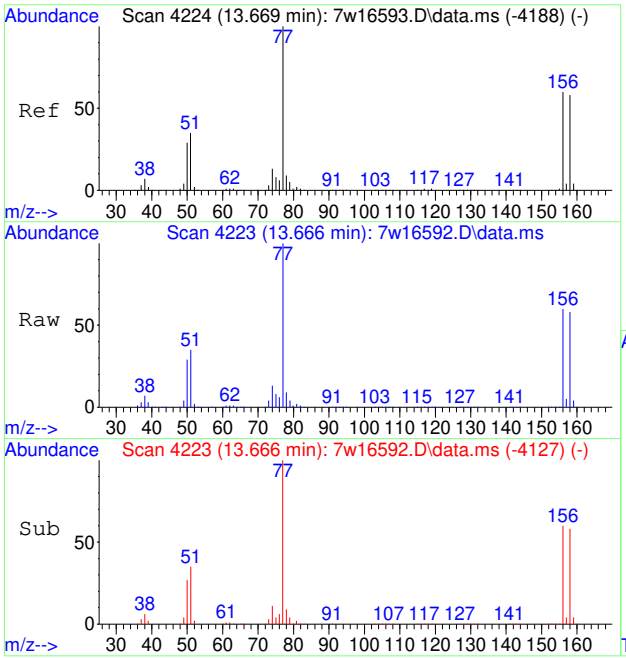


#88
ISOPROPYLBENZENE
Concen: 41.27 PPBV
RT: 13.797 min Scan# 4264
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 695388

Ion	Ratio	Lower	Upper
120	100		
77	59.7	42.5	78.9

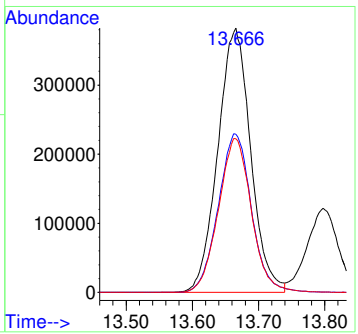


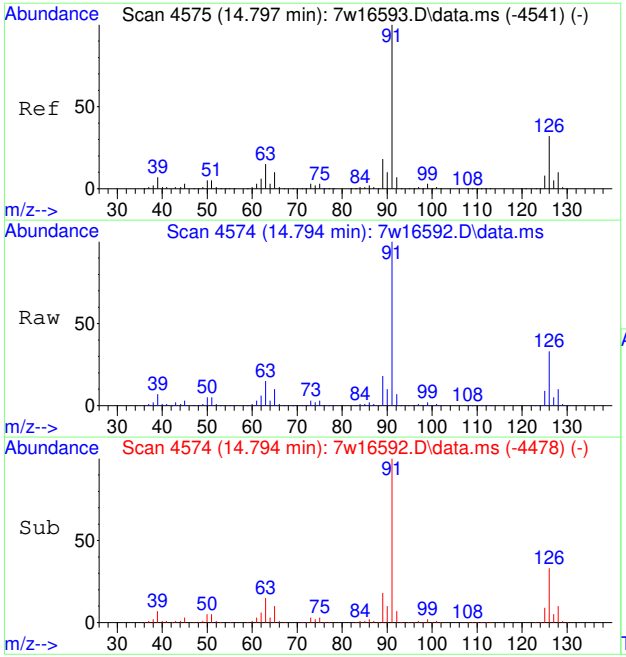


#89
BROMOBENZENE
Concen: 40.55 PPBV
RT: 13.666 min Scan# 4223
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 77 Resp: 1318537

Ion	Ratio	Lower	Upper
77	100		
156	60.7	42.4	78.8
158	58.7	40.9	76.0

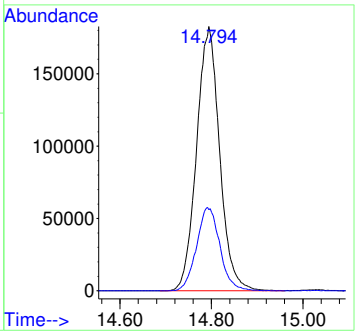


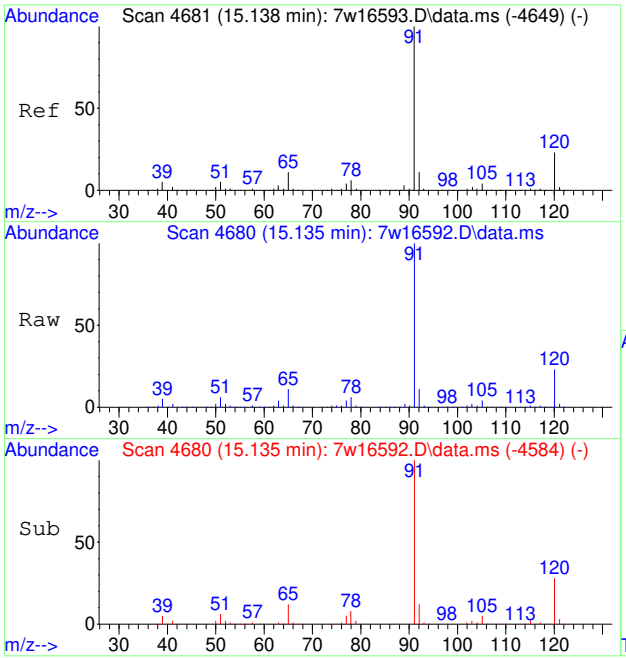


#90
2-CHLOROTOLUENE
Concen: 41.17 PPBV
RT: 14.794 min Scan# 4574
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:126 Resp: 639043

Ion	Ratio	Lower	Upper
126	100		
128	32.0	22.5	41.7

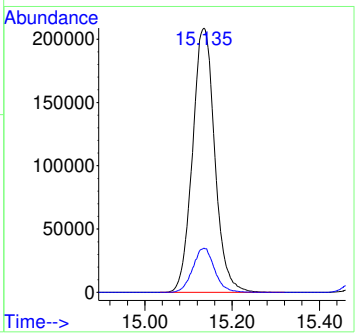


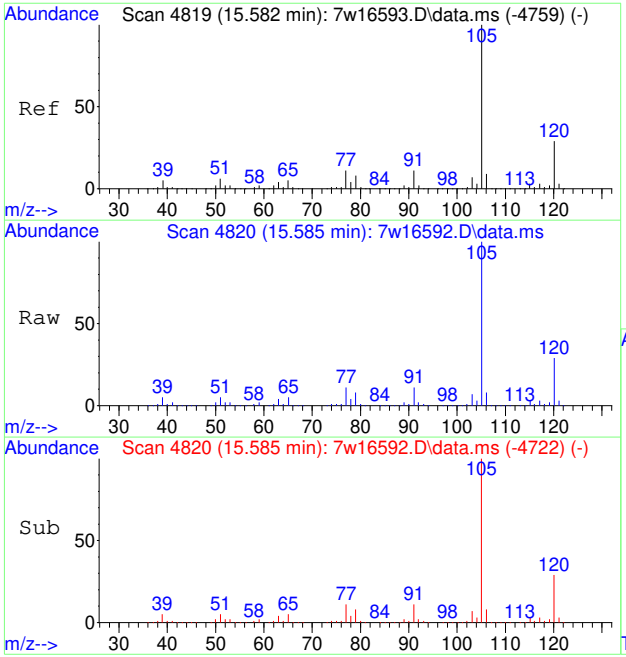


#91
N-PROPYLBENZENE
Concen: 42.04 PPBV
RT: 15.135 min Scan# 4680
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 740280

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

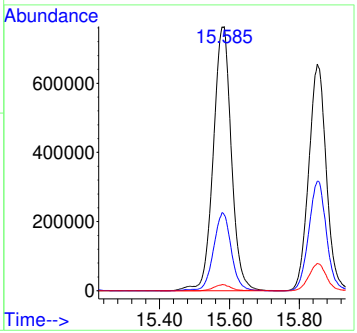


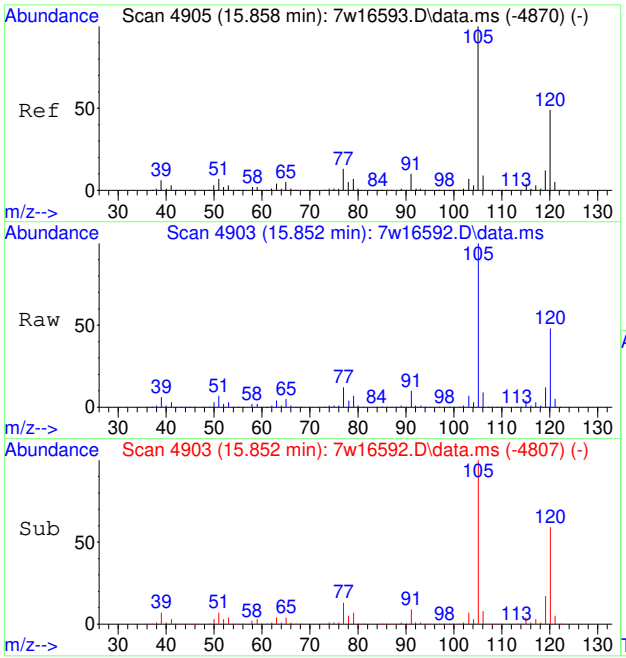


#92
4-ETHYLTOLUENE
Concen: 42.04 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2747294

Ion	Ratio	Lower	Upper
105	100		
120	29.2	20.7	38.5
119	2.2	1.6	3.0

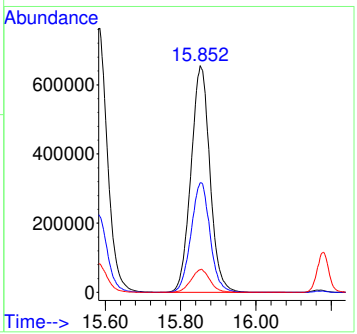


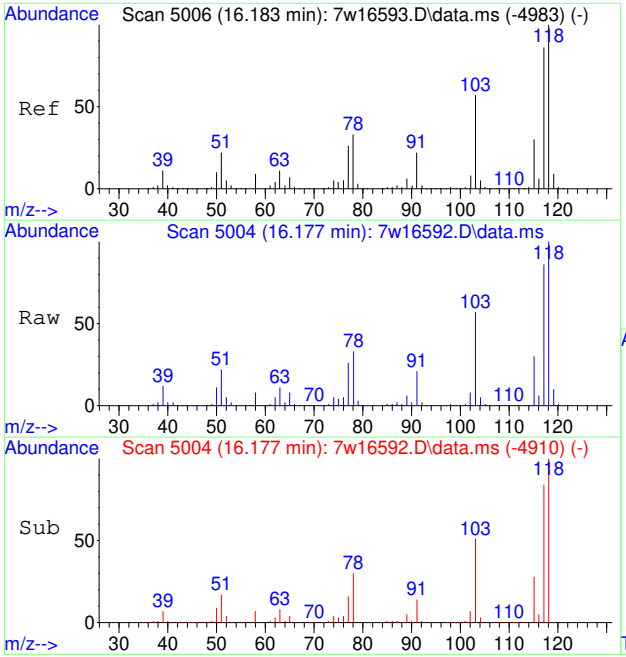


#93
1,3,5-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 15.852 min Scan# 4903
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2286498

Ion	Ratio	Lower	Upper
105	100		
120	48.6	34.0	63.2
91	10.1	7.3	13.7

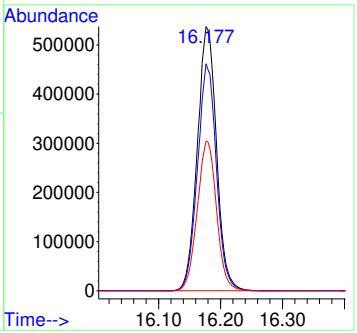


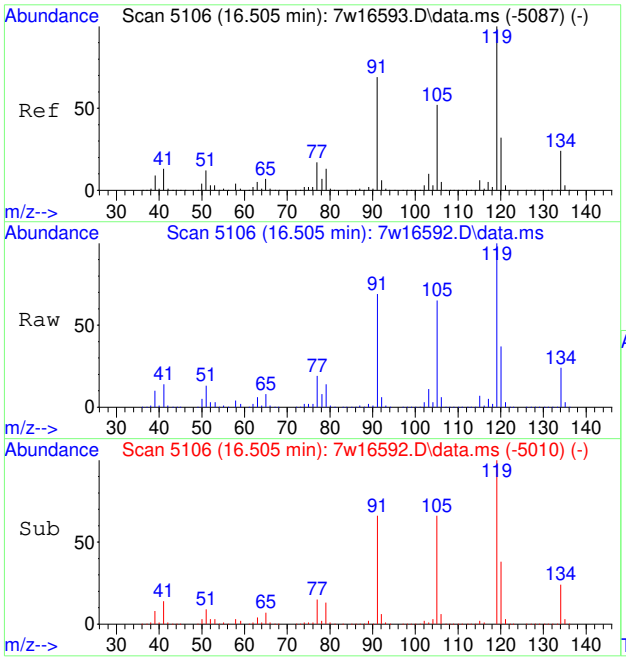


#94
ALPHA-METHYLSTYRENE
Concen: 43.69 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:118 Resp: 1155488

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.6	110.8
103	56.9	40.3	74.9

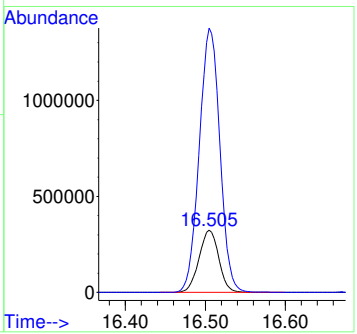


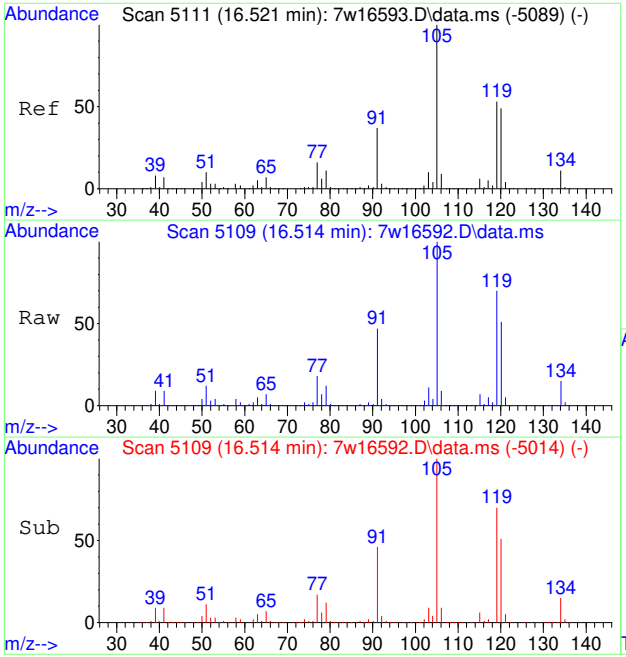


#95
TERT-BUTYLBENZENE
Concen: 41.12 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 554595

Ion	Ratio	Lower	Upper
134	100		
119	444.1	311.3	578.1

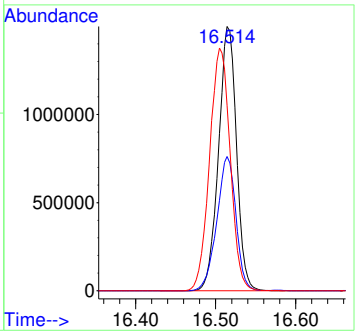


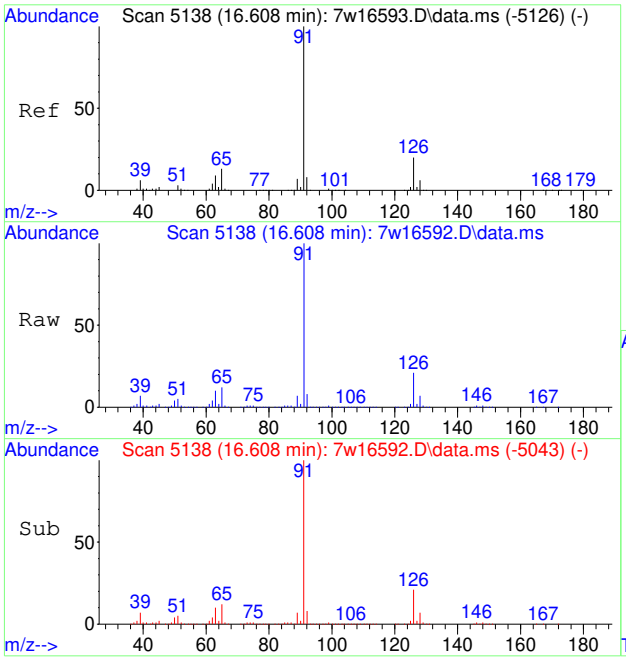


#96
1,2,4-TRIMETHYLBENZENE
Concen: 43.35 PPBV
RT: 16.514 min Scan# 5109
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2336862

Ion	Ratio	Lower	Upper
105	100		
120	54.3	37.9	70.5
119	105.4	74.3	137.9

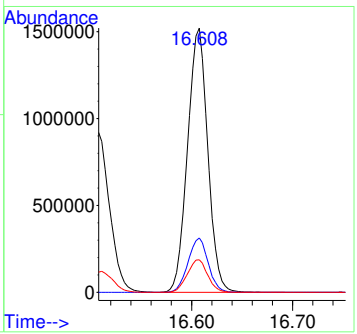


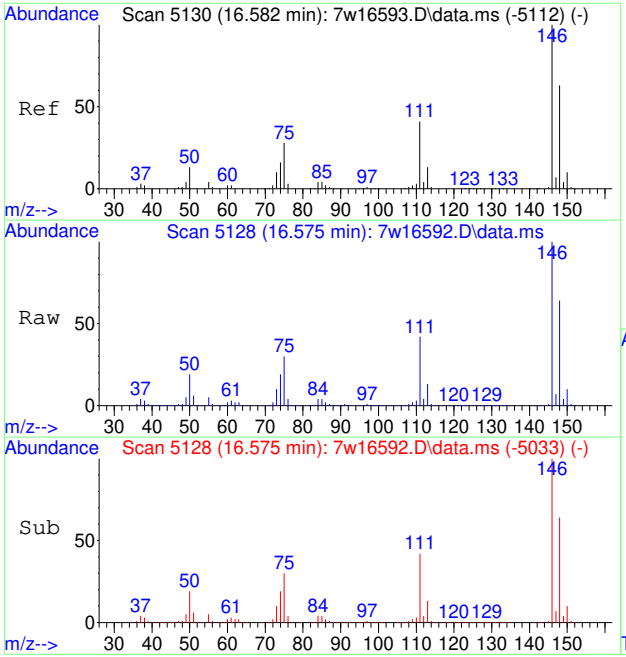


#97
BENZYL CHLORIDE
Concen: 52.85 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2115310

Ion	Ratio	Lower	Upper
91	100		
126	20.5	14.3	26.5
65	12.5	9.2	17.0

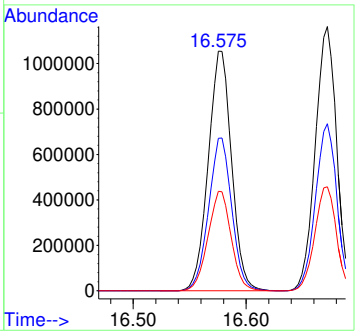


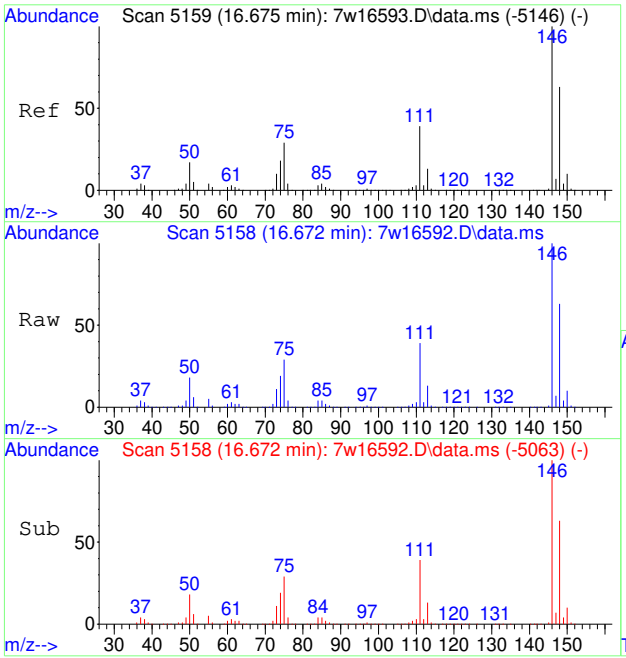


#98
M-DICHLOROBENZENE
Concen: 40.35 PPBV
RT: 16.575 min Scan# 5128
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1509487

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	41.3	29.3	54.3

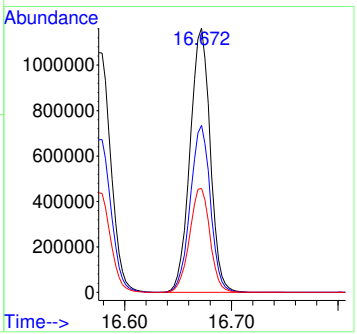


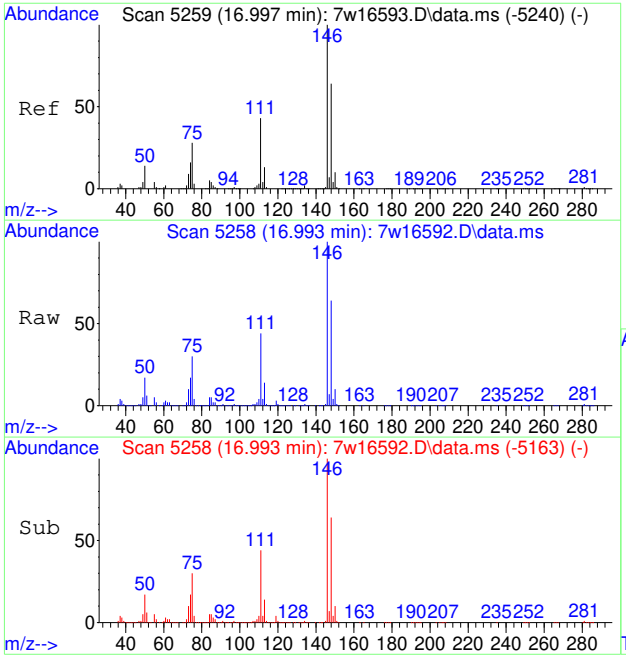


#99
P-DICHLOROBENZENE
Concen: 41.45 PPBV
RT: 16.672 min Scan# 5158
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1527061

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.2	82.2
111	39.9	28.0	52.0

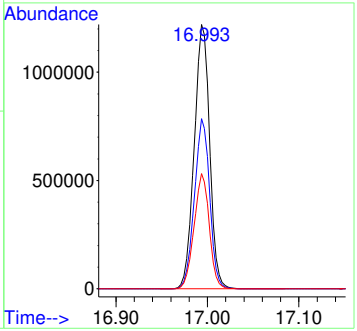


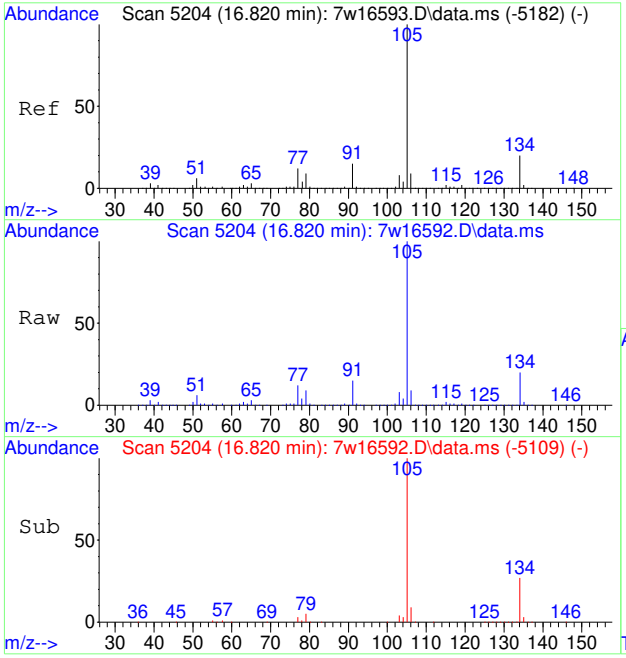


#100
O-DICHLOROBENZENE
Concen: 41.29 PPBV
RT: 16.993 min Scan# 5258
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1428015

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.2	82.2
111	42.9	30.4	56.4

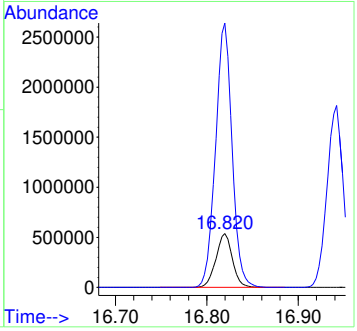


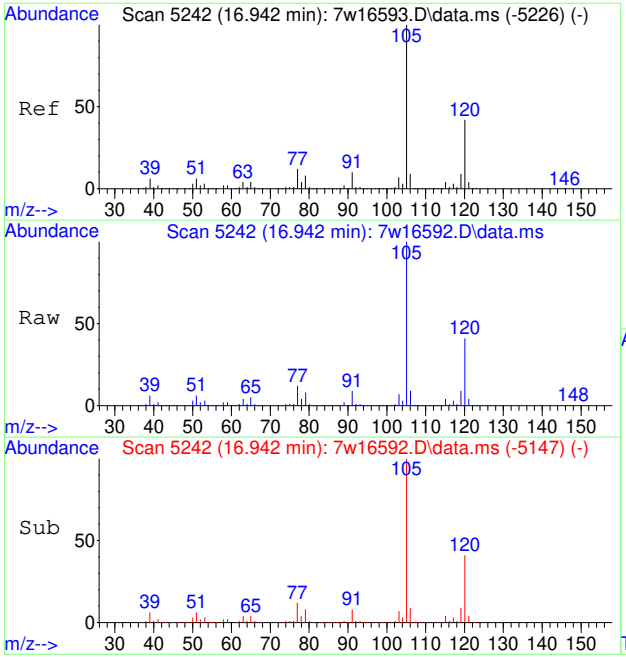


#101
SEC-BUTYLBENZENE
Concen: 42.40 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 675130

Ion	Ratio	Lower	Upper
134	100		
105	492.7	344.8	640.3

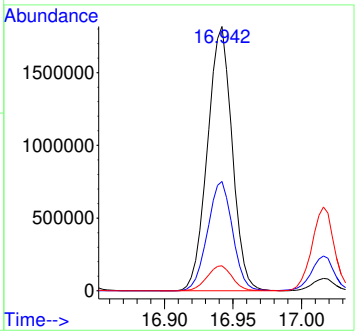


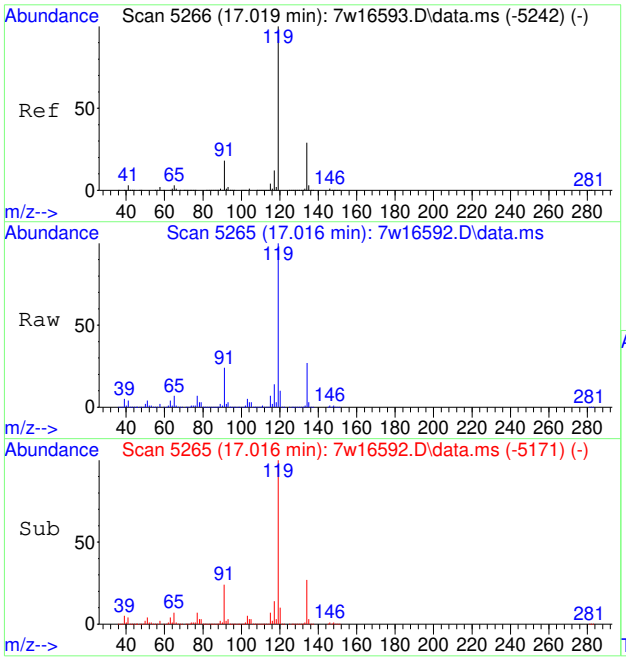


#102
1,2,3-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2270987

Ion	Ratio	Lower	Upper
105	100		
120	41.9	29.3	54.3
91	9.8	7.0	13.0

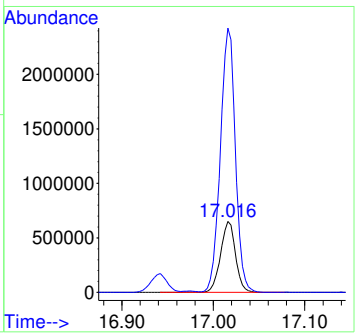


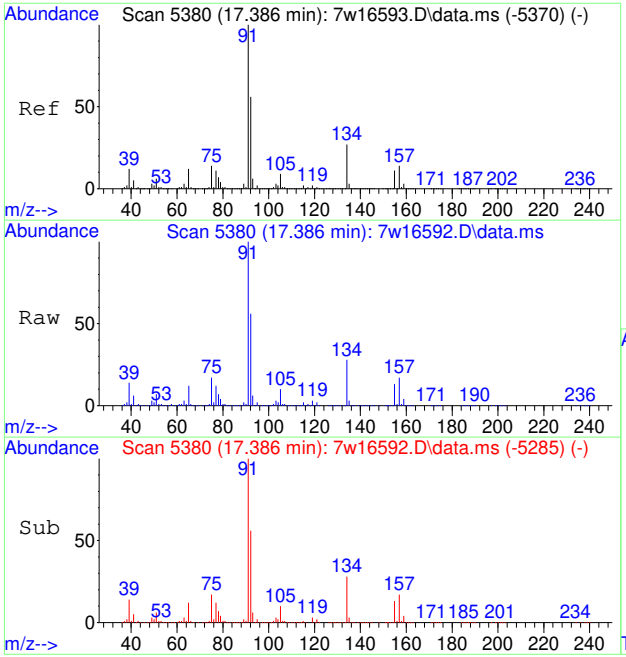


#103
P-ISOPROPYLTOLUENE
Concen: 42.05 PPBV
RT: 17.016 min Scan# 5265
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 742541

Ion	Ratio	Lower	Upper
134	100		
119	374.5	261.4	485.4

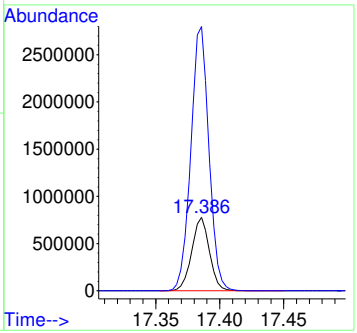


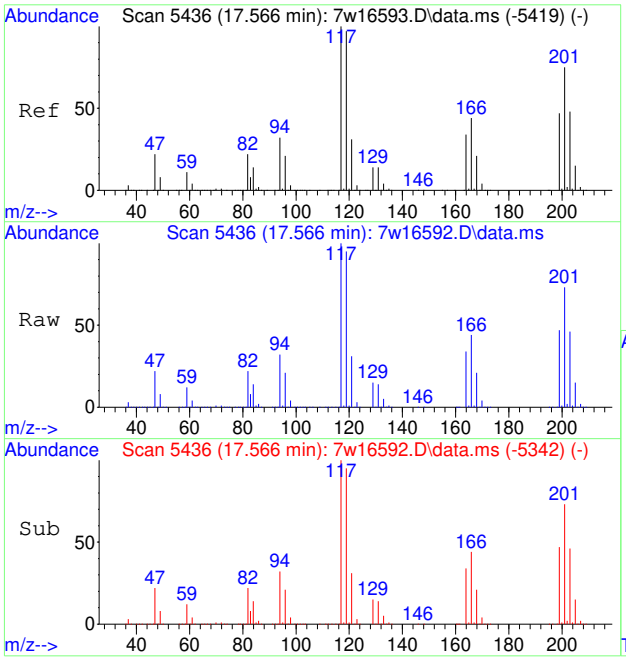


#104
N-BUTYLBENZENE
Concen: 45.09 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 743410

Ion	Ratio	Lower	Upper
134	100		
91	369.5	261.0	484.8

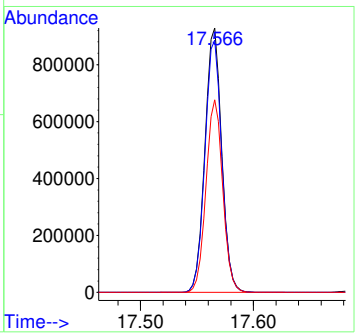


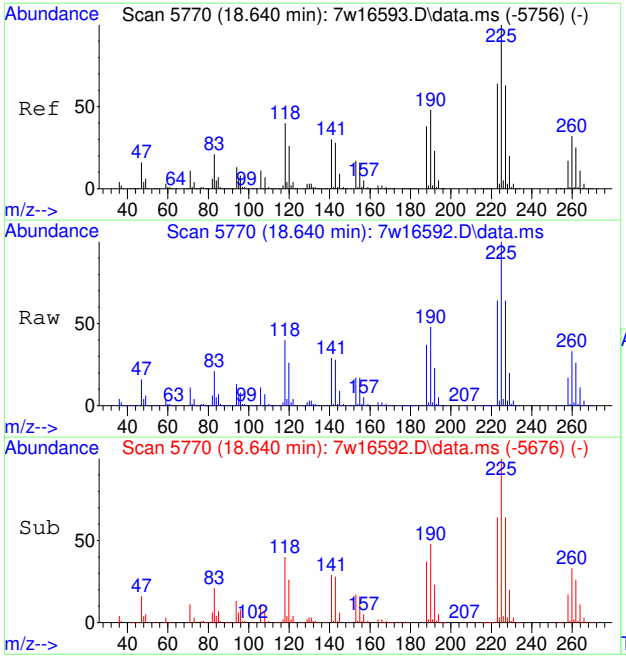


#105
HEXACHLOROETHANE
Concen: 47.76 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 951757

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	72.8	49.8	92.6

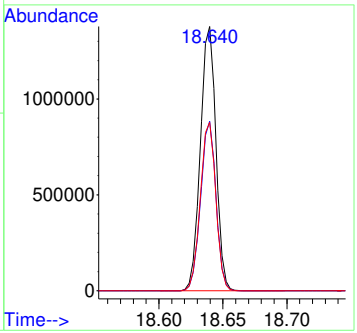


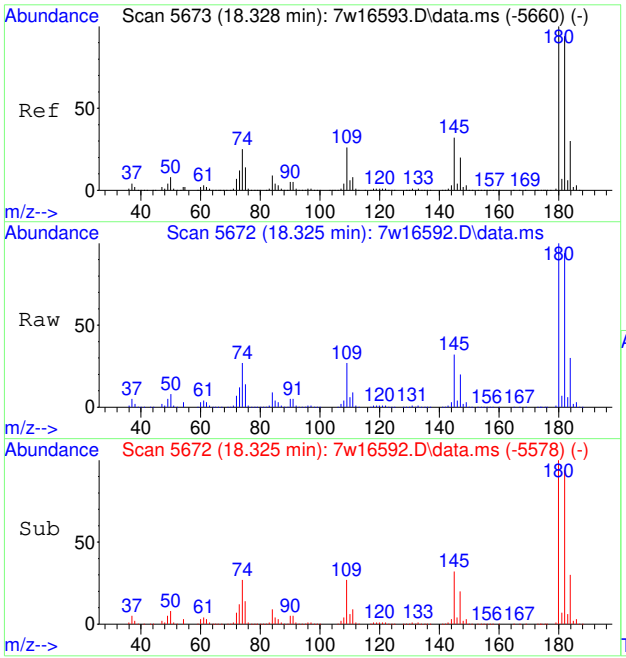


#106
HEXACHLOROBUTADIENE
Concen: 48.46 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:225 Resp: 1162376

Ion	Ratio	Lower	Upper
225	100		
227	63.3	44.6	82.8
223	63.6	44.6	82.8

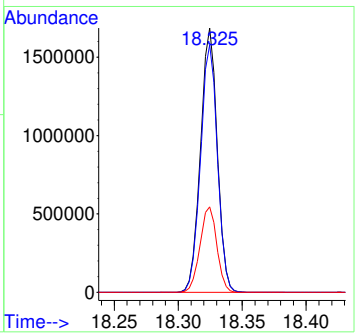


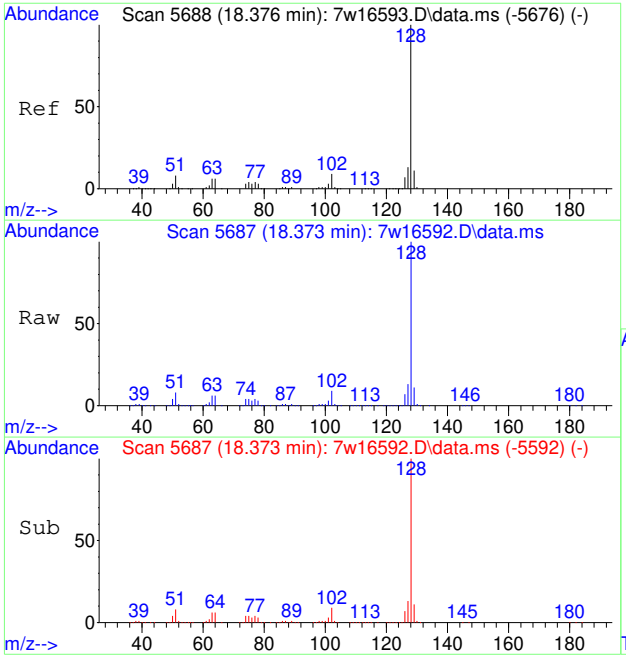


#107
1,2,4-TRICHLOROBENZENE
Concen: 56.96 PPBV
RT: 18.325 min Scan# 5672
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:180 Resp: 1534367

Ion	Ratio	Lower	Upper
180	100		
182	94.5	66.6	123.6
145	32.7	22.5	41.9

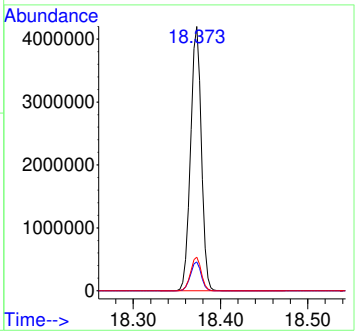


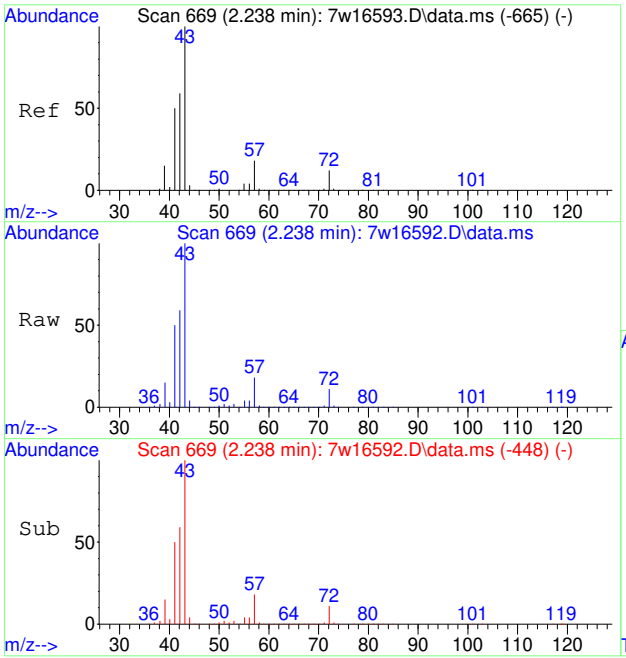


#108
NAPHTHALENE
Concen: 60.99 PPBV
RT: 18.373 min Scan# 5687
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:128 Resp: 3606459

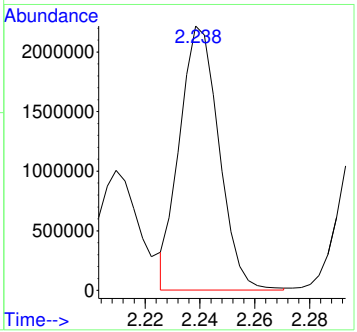
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.7	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 32.90 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:TIC Resp: 2205824



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16592.D
Injection Time: 08/07/25 14:30

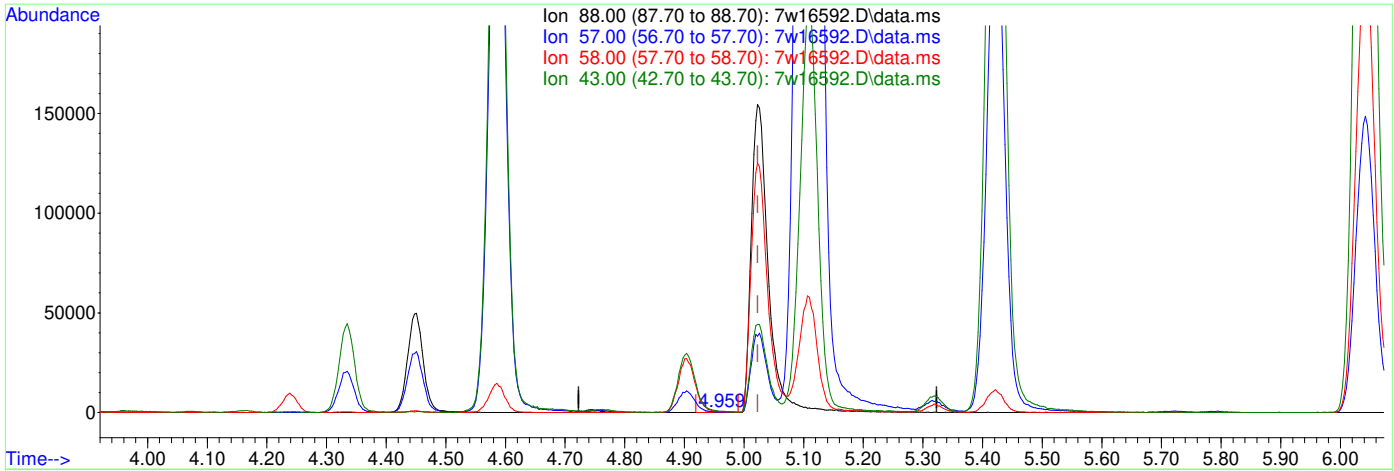
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

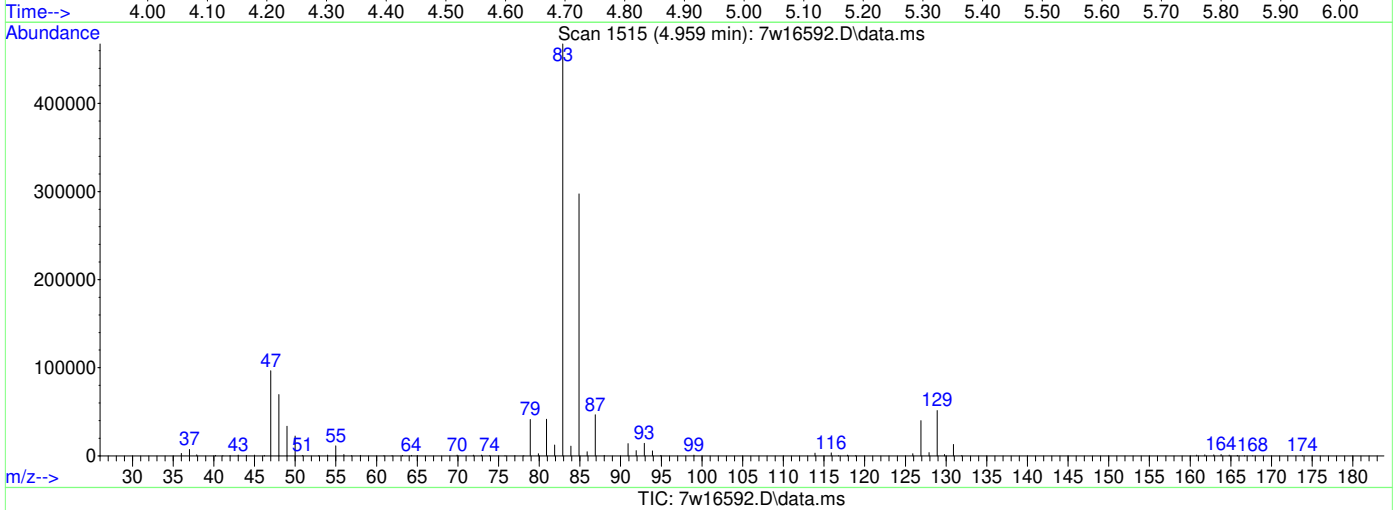
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.02	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

4.959min (-0.064) 0.14PPBV

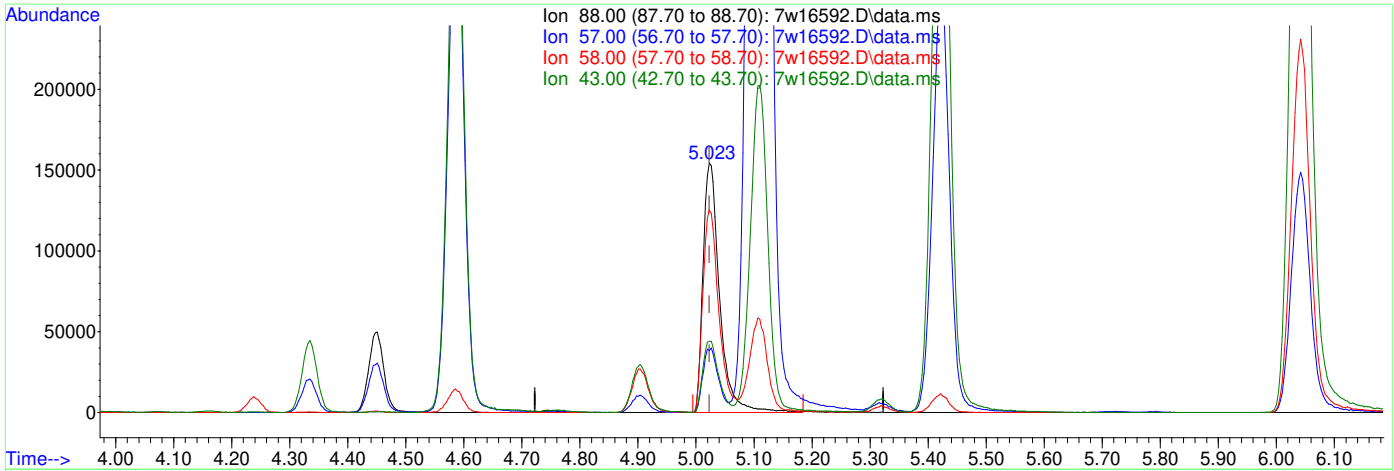
response 1156

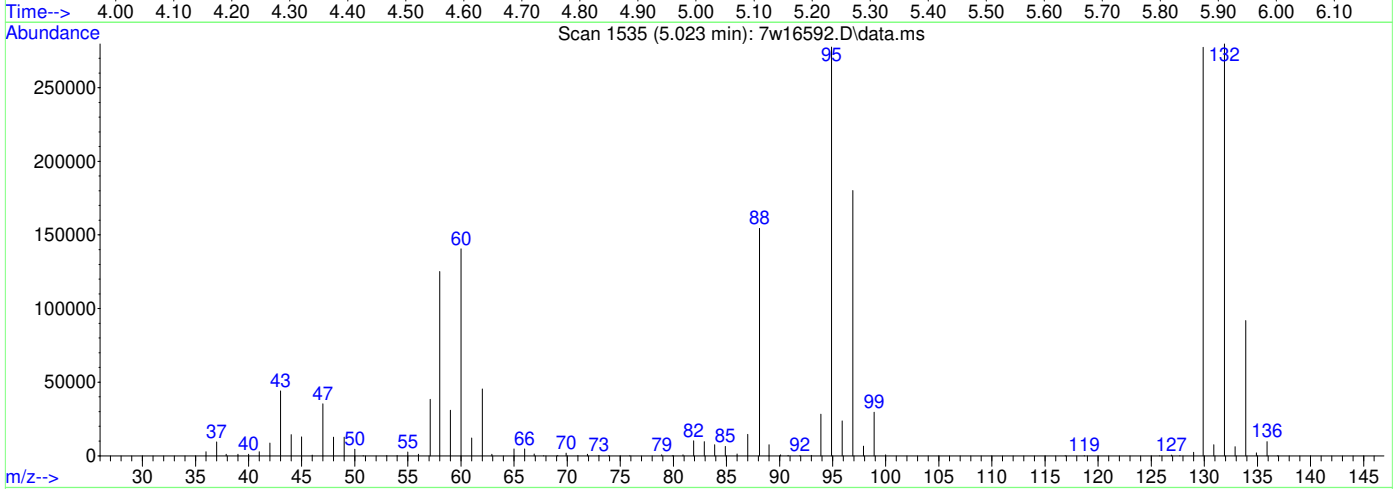
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

5.023min (+0.000) 38.33PPBV m

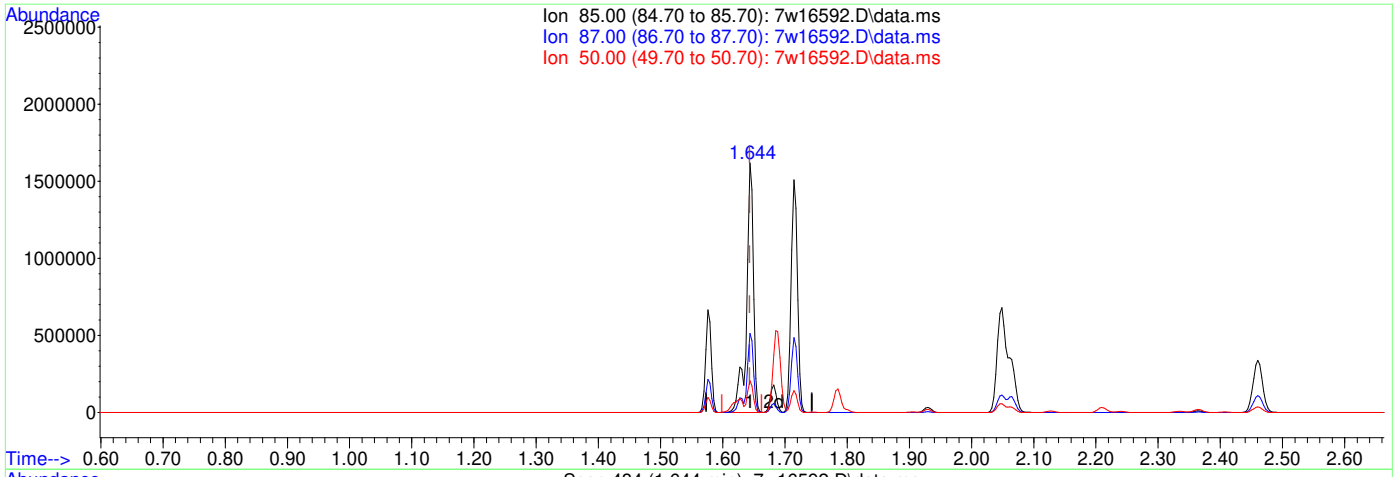
response 307098

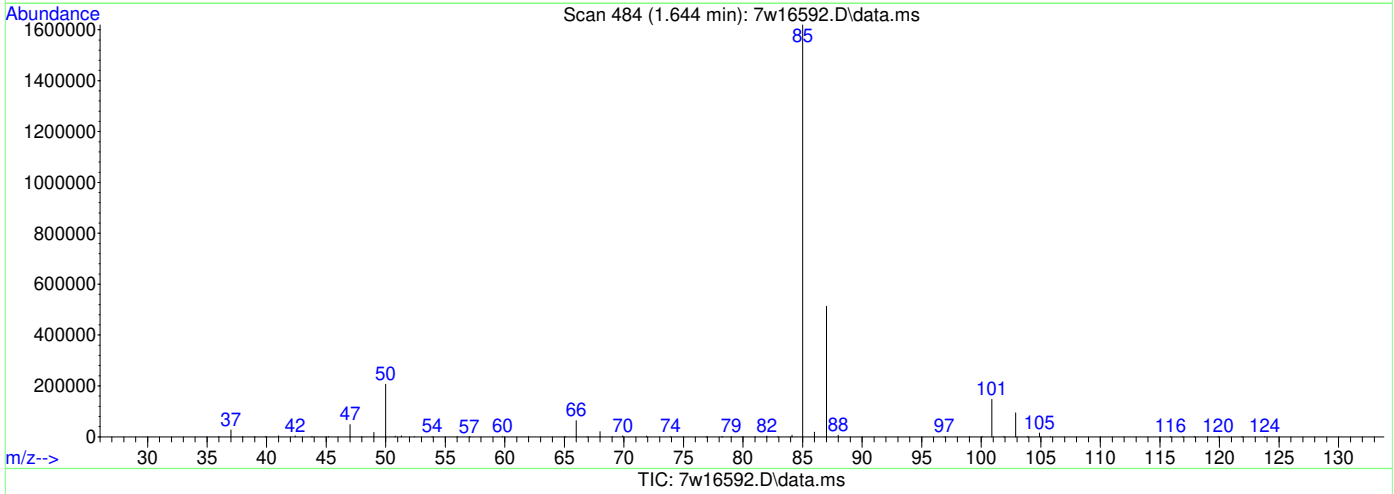
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 39.56PPBV

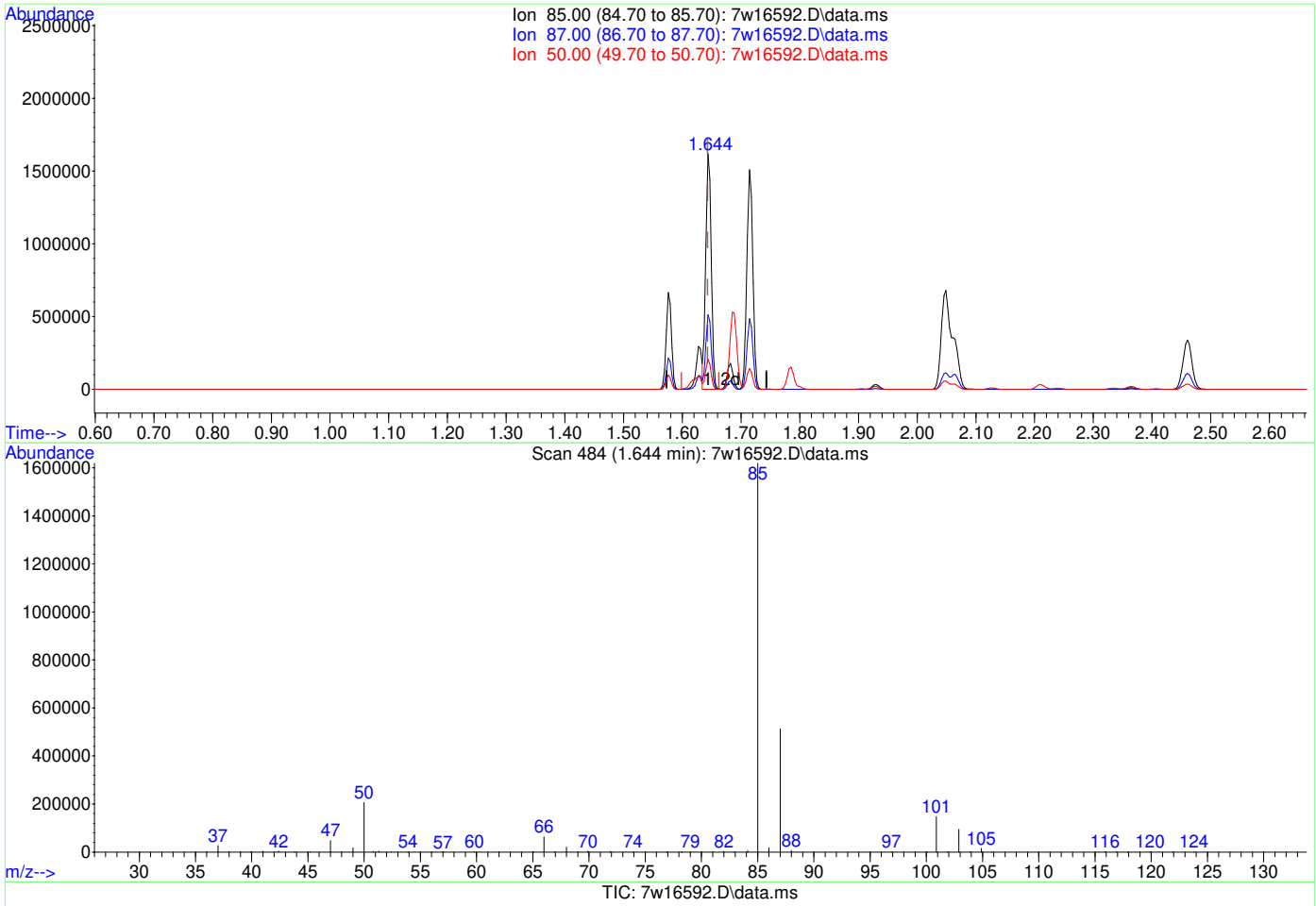
response 1248425

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.14
50.00	19.30	18.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration



TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 33.07PPBV m

response 1043482

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.45
50.00	19.30	22.36
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	105717	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	531881	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	494368	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	105715	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	398017	10.03	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	347161	52.39	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	153687	53.47	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	766747	56.03	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	1341049m	44.53	PPBV		
7) PROPYLENE	1.627	41	437361	50.49	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1168248	51.17	PPBV		99
9) FREON 114	1.714	85	1366824	52.31	PPBV		99
10) CHLOROMETHANE	1.688	52	180379	48.75	PPBV		99
11) VINYL CHLORIDE	1.746	62	644820	49.80	PPBV		100
12) 1,3-BUTADIENE	1.785	54	492846	47.75	PPBV		98
13) N-BUTANE	1.801	43	861032	49.00	PPBV		99
14) BROMOMETHANE	1.859	94	489029	48.47	PPBV		99
15) CHLOROETHANE	1.904	64	335126	47.41	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	1165217	47.65	PPBV		99
17) ACETONITRILE	1.994	41	492619	39.40	PPBV		99
18) ACROLEIN	2.033	56	284178	48.79	PPBV		99
19) FREON 123	2.049	83	1284287	52.41	PPBV		100
20) FREON 123A	2.065	117	752289	51.67	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1332114	47.77	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1144041	47.91	PPBV		99
23) ACETONE	2.071	58	315550	48.52	PPBV		94
24) PENTANE	2.238	42	600441	46.26	PPBV		99
25) IODOMETHANE	2.299	142	1336999	52.52	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	541882	51.15	PPBV		96
27) CARBON DISULFIDE	2.463	76	1536663	51.13	PPBV		97
28) ETHANOL	1.933	45	274276	42.83	PPBV		100
29) BROMOETHENE	2.004	106	503032	50.05	PPBV		100
30) ACRYLONITRILE	2.209	52	465157	51.19	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	488512	46.46	PPBV		94
32) 3-CHLOROPROPENE	2.406	76	282447	50.05	PPBV		93
33) FREON 113	2.460	151	827135	52.05	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	567495	48.66	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	1271463	42.60	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	1685636	50.99	PPBV		99
37) TETRAHYDROFURAN	3.463	72	264475	49.92	PPBV		98
38) HEXANE	3.241	57	1126153	50.43	PPBV		95
39) VINYL ACETATE	2.827	86	168950	54.22	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	1126676	50.17	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	301446	49.43	PPBV		97
42) CIS-1,2-DICHLOROETHENE	3.116	96	616786	51.36	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	322160	51.01	PPBV		92
44) ETHYL ACETATE	3.251	61	229745	54.48	PPBV		86
45) METHYL ACRYLATE	3.238	55	1386411	51.53	PPBV	#	100
46) CHLOROFORM	3.264	83	1180563	50.69	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1310498	52.75	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1267195	51.99	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1338340	53.55	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	918746	51.11	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	BENZENE	4.129	78	1795488	50.31	PPBV	99
53)	CYCLOHEXANE	4.335	84	810673	52.10	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.589	71	421378	54.59	PPBV	99
55)	TRICHLOROETHENE	5.020	95	808299	48.49	PPBV	99
56)	1,2-DICHLOROPROPANE	4.788	63	756985	51.61	PPBV	99
57)	DIBROMOMETHANE	4.749	174	703285	49.34	PPBV	98
58)	ETHYL ACRYLATE	4.907	55	1751040	53.53	PPBV	100
59)	BROMODICHLOROMETHANE	4.968	83	1363903	51.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	3474233	47.72	PPBV	100
61)	1,4-DIOXANE	5.023	88	402995	51.97	PPBV	98
62)	HEPTANE	5.421	43	1183014	49.34	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	696280	52.38	PPBV	96
64)	METHYL ISOBUTYL KETONE	6.045	58	692709	48.13	PPBV	98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	1209649	54.68	PPBV	97
66)	TOLUENE	7.138	91	2257380	53.54	PPBV	99
67)	1,3-DICHLOROPROPANE	7.200	76	1150031	54.57	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	1086853	55.09	PPBV	98
69)	1,1,2-TRICHLOROETHANE	6.772	83	657452	55.07	PPBV	99
70)	2-HEXANONE	7.701	58	931287	45.78	PPBV	97
71)	ETHYL METHACRYLATE	7.839	69	1191952	54.01	PPBV	98
72)	TETRACHLOROETHENE	8.852	164	838148	54.58	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.666	129	1403452	58.86	PPBV	100
74)	1,2-DIBROMOETHANE	8.010	107	1223967	56.46	PPBV	100
75)	OCTANE	9.003	43	1670114	52.30	PPBV	99
77)	1,1,1,2-TETRACHLOROETHANE	10.068	131	1014574	57.95	PPBV	100
78)	CHLOROBENZENE	10.055	112	1847440	54.82	PPBV	99
79)	ETHYLBENZENE	10.936	91	3062670	55.49	PPBV	100
80)	M,P-XYLENE	11.363	91	4688509	104.27	PPBV	90
81)	O-XYLENE	12.293	91	2383048	54.76	PPBV	98
82)	STYRENE	12.080	104	1884473	58.71	PPBV	99
83)	NONANE	13.415	43	1775546	52.08	PPBV	98
84)	BROMOFORM	11.174	173	1265430	63.02	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.309	83	1733579	55.83	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.592	75	1360230	55.93	PPBV	100
88)	ISOPROPYLBENZENE	13.804	120	894931	54.23	PPBV	98
89)	BROMOBENZENE	13.669	77	1702334	53.56	PPBV	99
90)	2-CHLOROTOLUENE	14.797	126	829710	54.34	PPBV	100
91)	N-PROPYLBENZENE	15.138	120	961239	55.42	PPBV	100
92)	4-ETHYLTOLUENE	15.582	105	3566781	55.47	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.858	105	2975442	55.47	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.183	118	1513322	57.73	PPBV	99
95)	TERT-BUTYLBENZENE	16.505	134	714841	54.19	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3037196	57.25	PPBV	99
97)	BENZYL CHLORIDE	16.608	91	2795409	68.69	PPBV	99
98)	M-DICHLOROBENZENE	16.582	146	1958237	53.40	PPBV	100
99)	P-DICHLOROBENZENE	16.675	146	1991134	55.15	PPBV	100
100)	O-DICHLOROBENZENE	16.997	146	1868131	55.08	PPBV	100
101)	SEC-BUTYLBENZENE	16.820	134	879244	56.32	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2956799	55.49	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.019	134	964439	55.64	PPBV	99
104)	N-BUTYLBENZENE	17.386	134	974353	59.74	PPBV	97
105)	HEXACHLOROETHANE	17.566	117	1246101	62.73	PPBV	98
106)	HEXACHLOROBUTADIENE	18.640	225	1541106	64.95	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2093092	76.81	PPBV	99
108)	NAPHTHALENE	18.376	128	4901356	81.19	PPBV	99
110)	TVHC as equiv Pentane	2.238	TIC	2811423	45.25	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

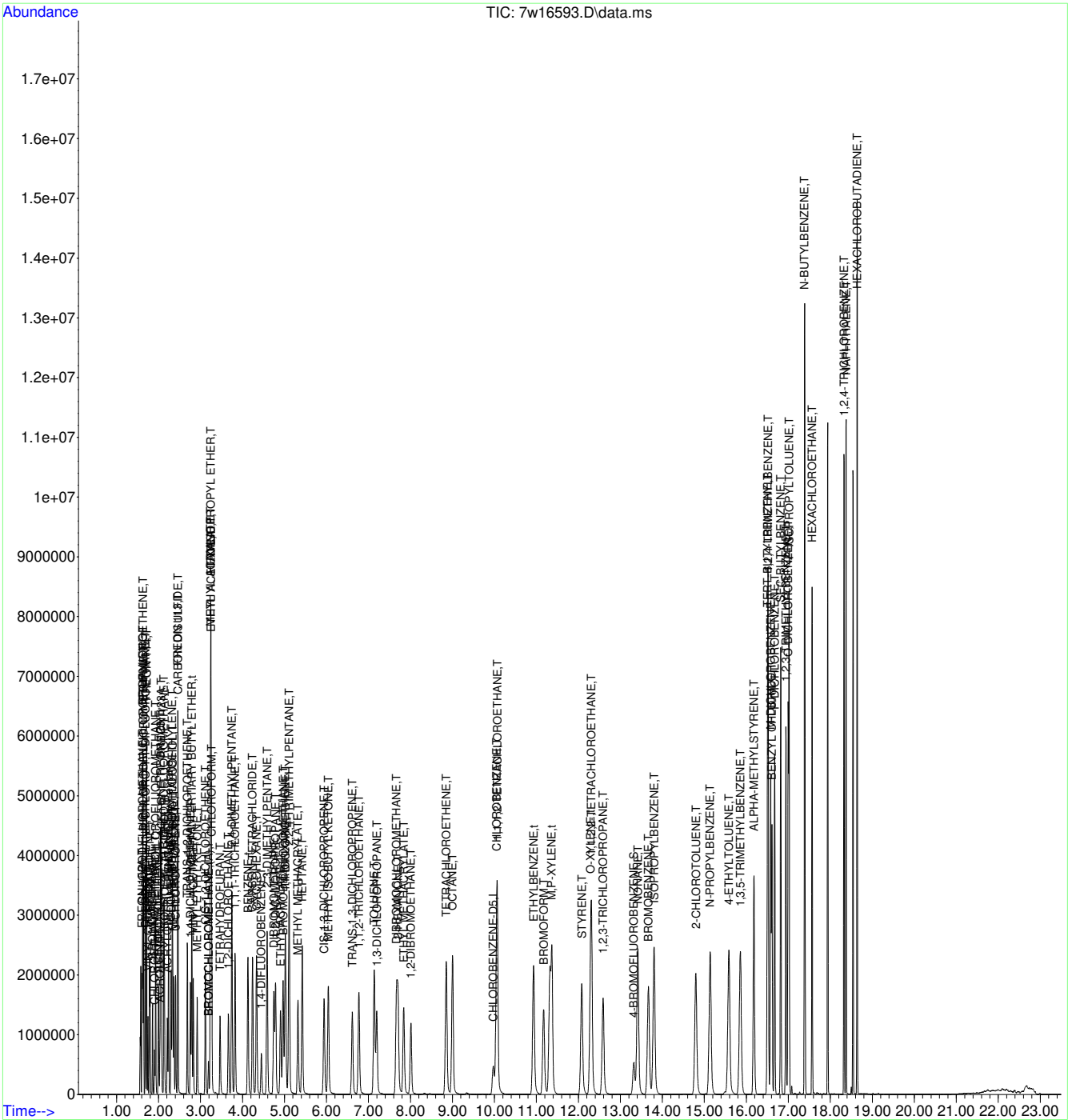
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

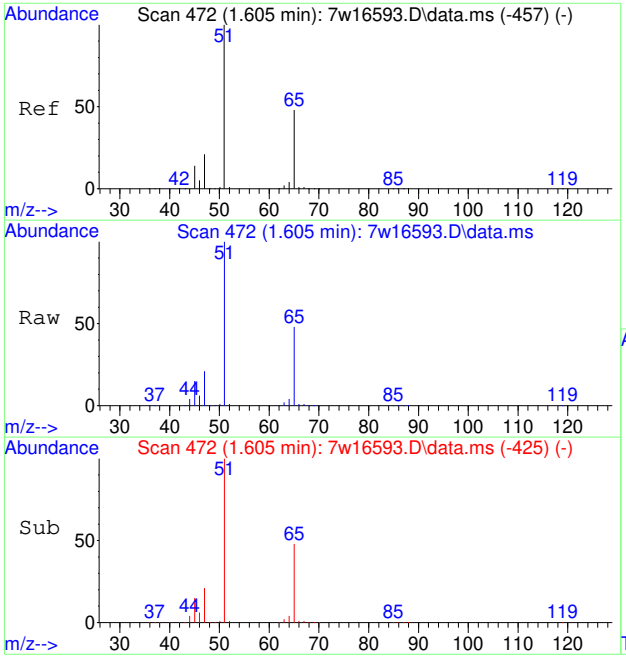
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

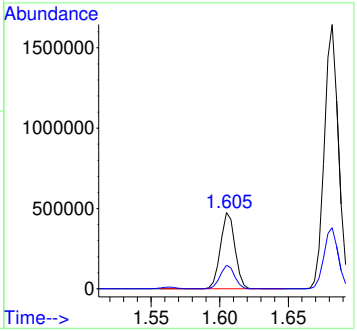


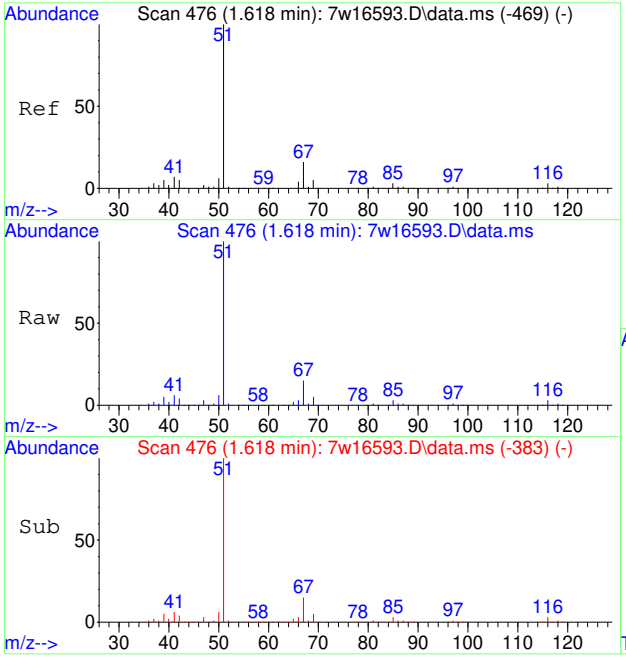


#3
FREON 152A
Concen: 52.39 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 347161

Ion	Ratio	Lower	Upper
65	100		
45	30.7	23.0	42.8

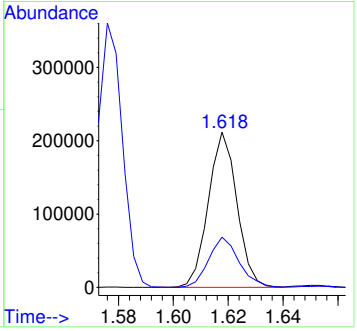


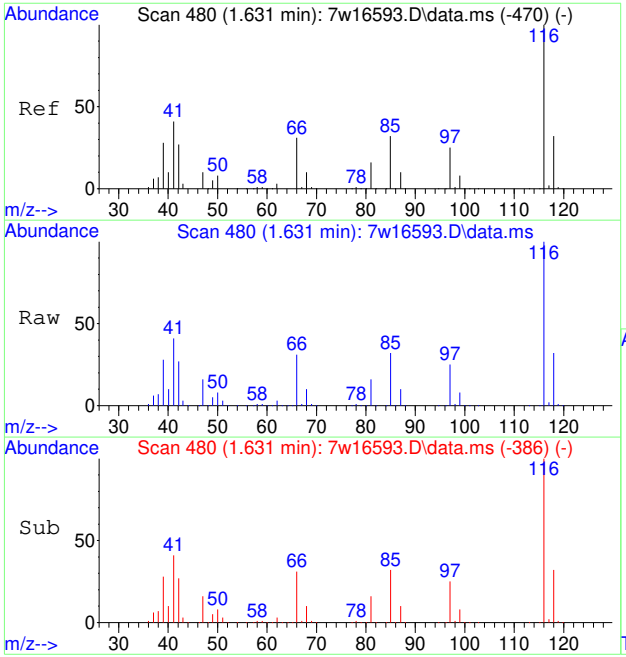


#4
CHLORODIFLUOROMETHANE
Concen: 53.47 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 153687

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

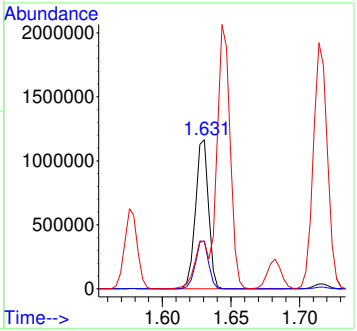


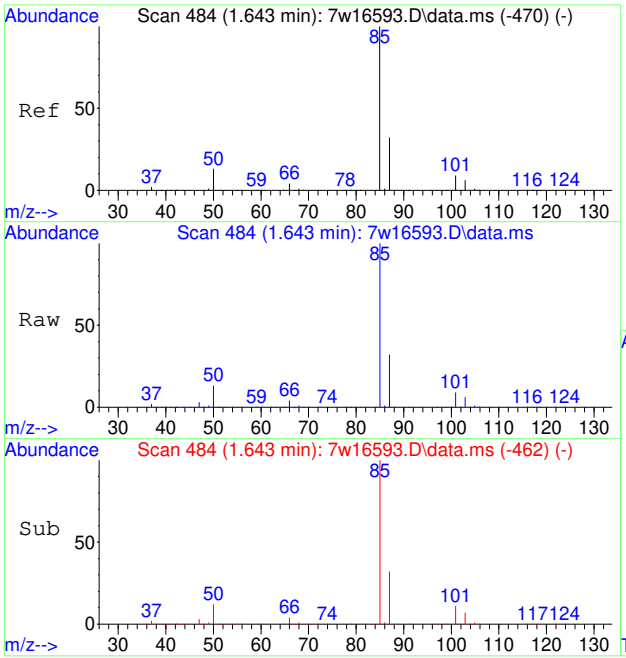


#5
CHLOROTRIFLUOROETHENE
Concen: 56.03 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:116 Resp: 766747

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	209.5	152.4	283.0

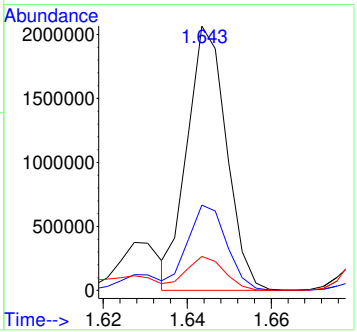


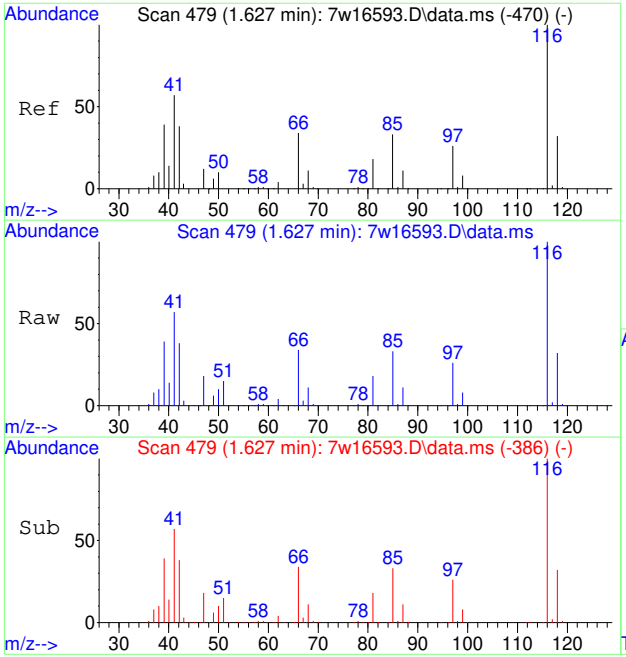


#6
DICHLORODIFLUOROMETHANE
Concen: 44.53 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1341049

Ion	Ratio	Lower	Upper
85	100		
87	38.9	23.0	42.6
50	22.3	13.5	25.1

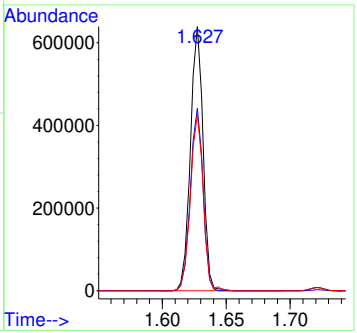


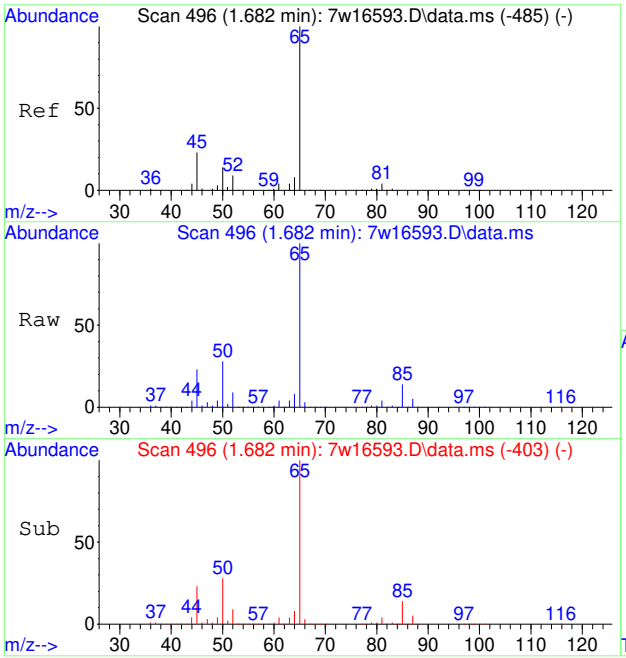


#7
PROPYLENE
Concen: 50.49 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 437361

Ion	Ratio	Lower	Upper
41	100		
39	69.4	50.5	93.7
42	67.7	47.0	87.4

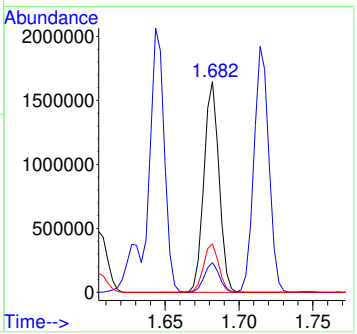


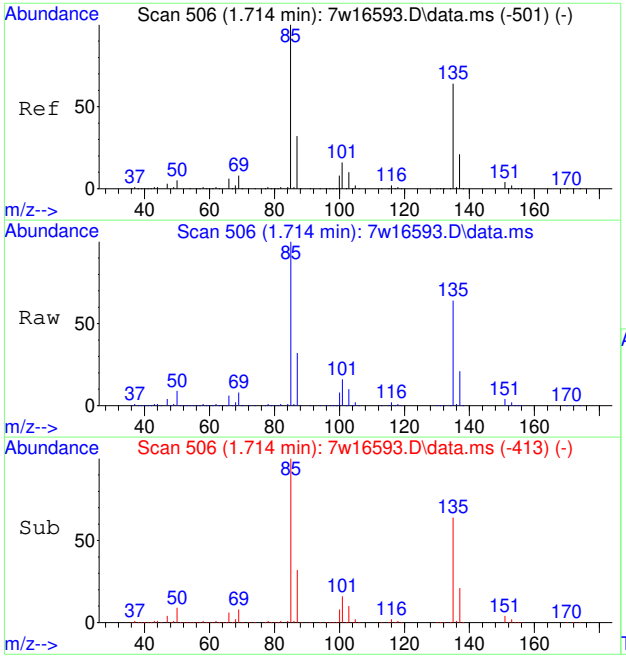


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 51.17 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 1168248

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

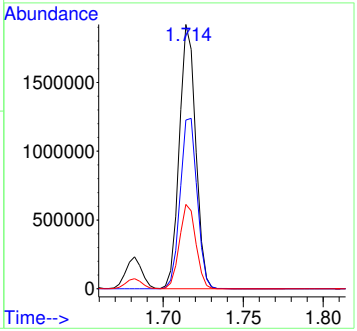


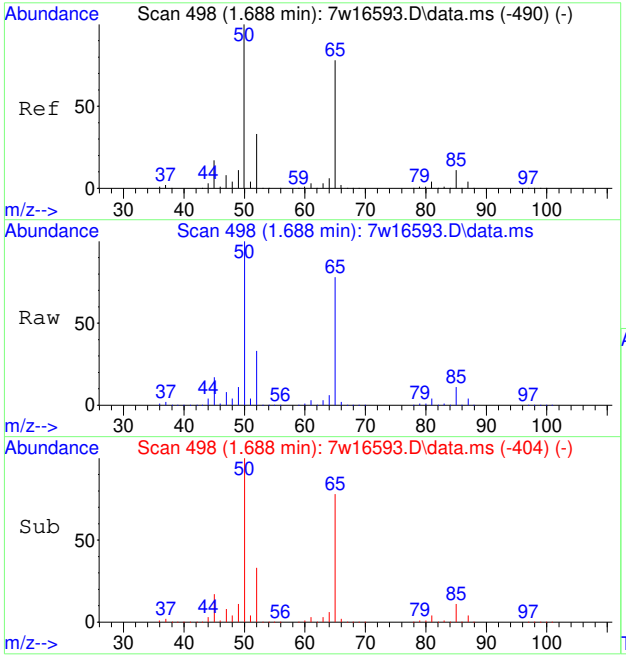


#9
FREON 114
Concen: 52.31 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1366824

Ion	Ratio	Lower	Upper
85	100		
135	66.9	46.1	85.7
87	32.1	22.6	42.0

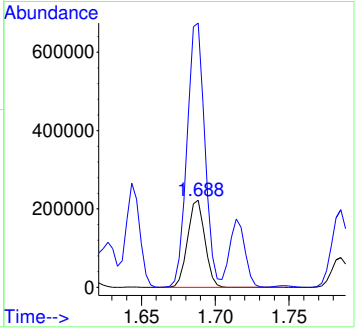


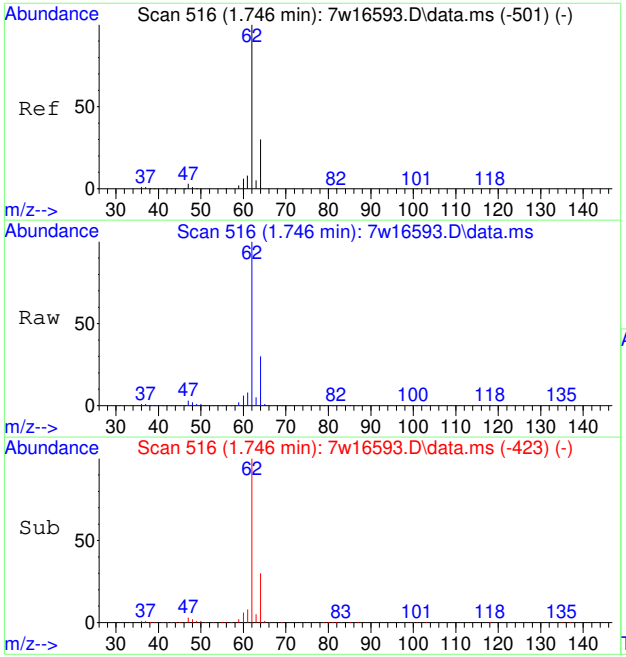


#10
CHLOROMETHANE
Concen: 48.75 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 180379

Ion	Ratio	Lower	Upper
52	100		
50	319.4	225.6	419.0

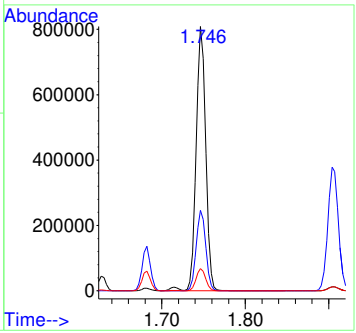


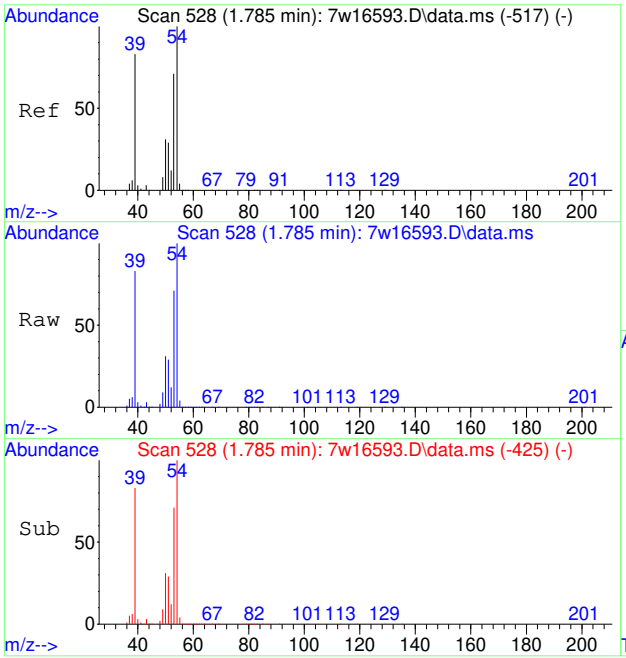


#11
VINYL CHLORIDE
Concen: 49.80 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 644820

Ion	Ratio	Lower	Upper
62	100		
64	30.3	21.3	39.6
61	8.5	5.7	10.5

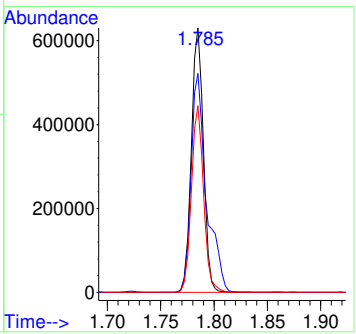


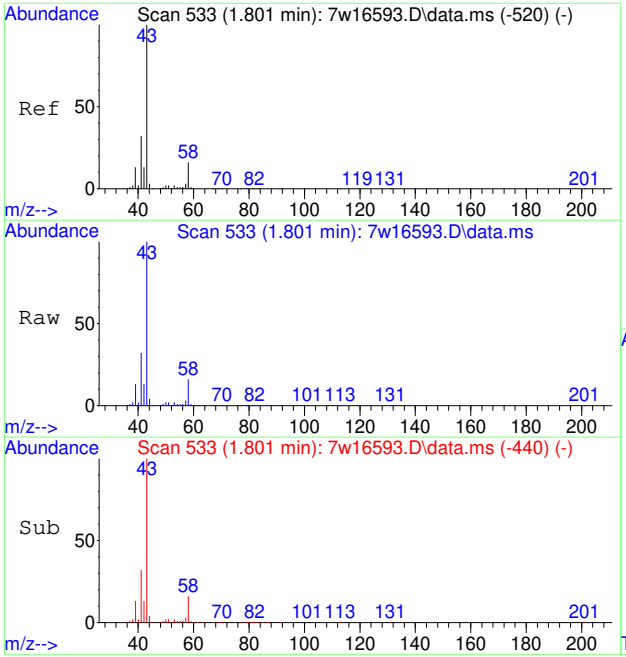


#12
1,3-BUTADIENE
Concen: 47.75 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 54 Resp: 492846

Ion	Ratio	Lower	Upper
54	100		
39	105.5	78.4	138.4
53	71.6	40.9	100.9

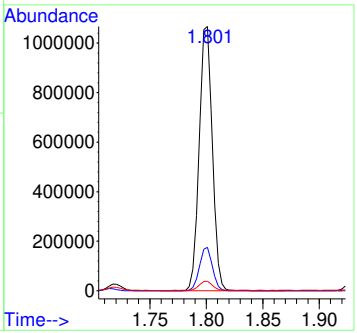


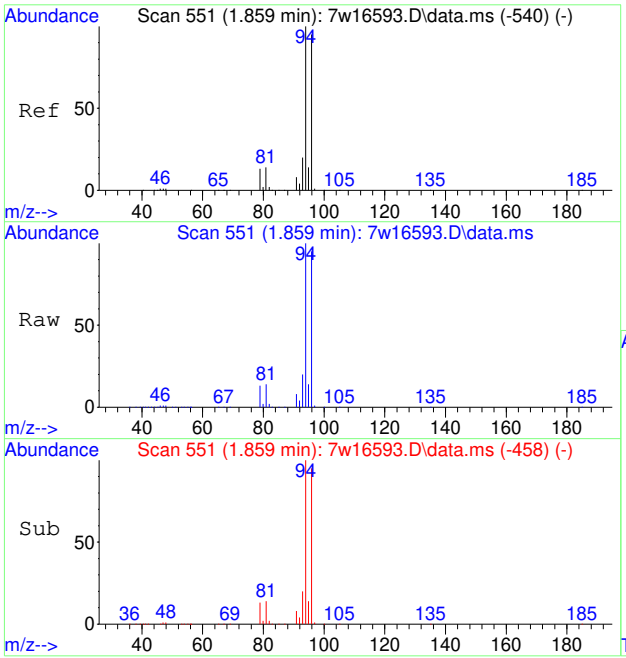


#13
N-BUTANE
Concen: 49.00 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 861032

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.6	2.6	4.8

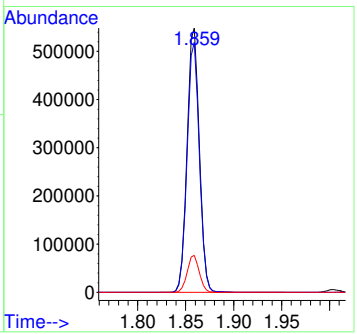


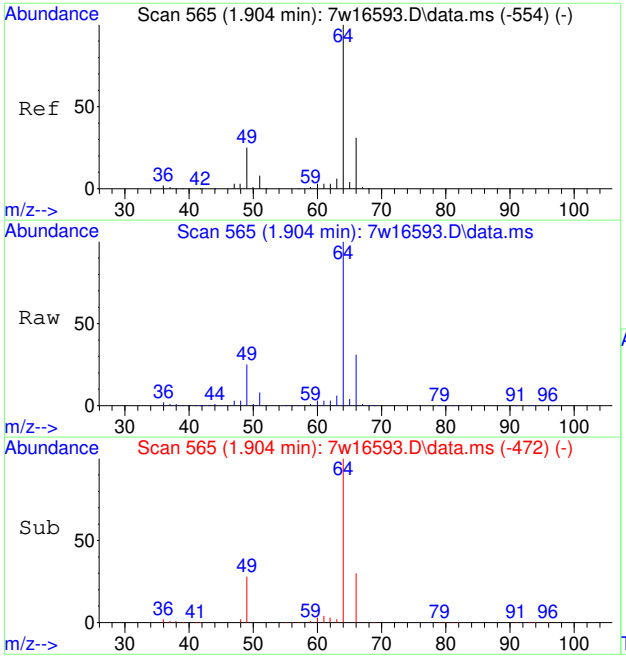


#14
BROMOMETHANE
Concen: 48.47 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 94 Resp: 489029

Ion	Ratio	Lower	Upper
94	100		
96	93.9	66.1	122.7
95	13.8	9.9	18.3

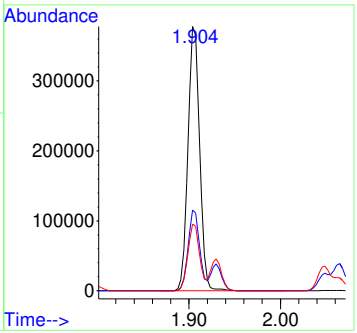


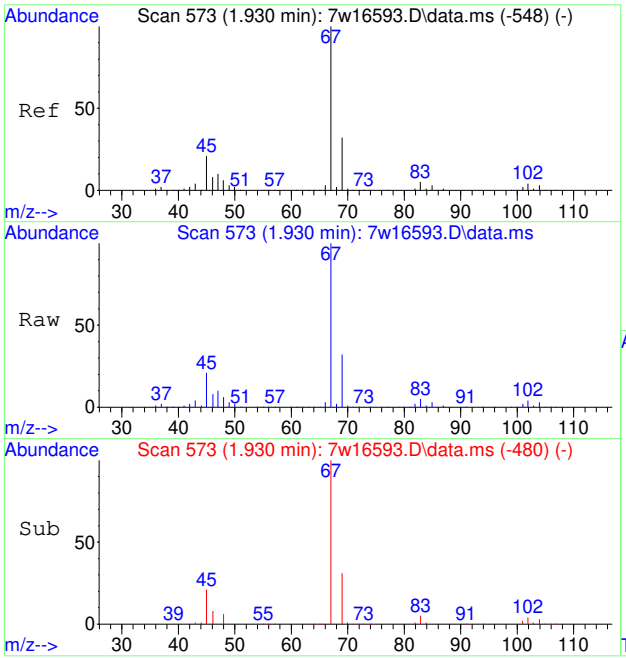


#15
CHLOROETHANE
Concen: 47.41 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 64 Resp: 335126

Ion	Ratio	Lower	Upper
64	100		
66	30.6	21.5	39.9
49	26.0	19.0	35.4

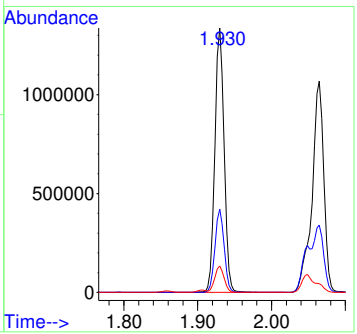


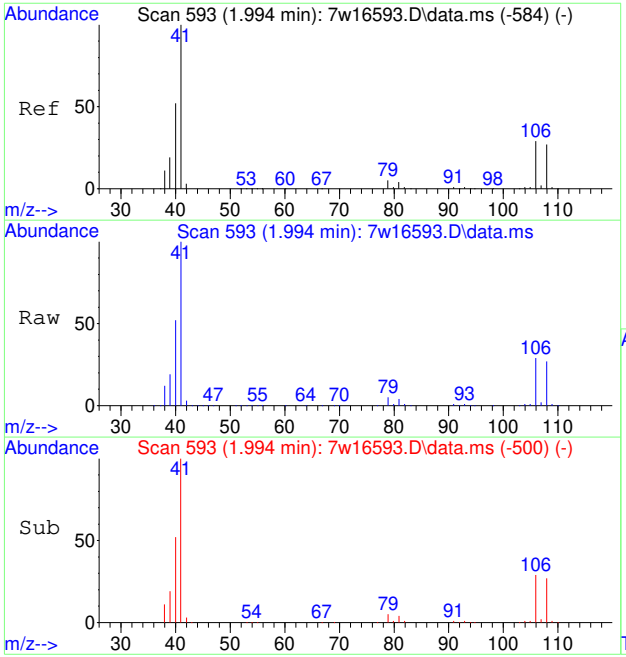


#16
DICHLOROFLUOROMETHANE
Concen: 47.65 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 1165217

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

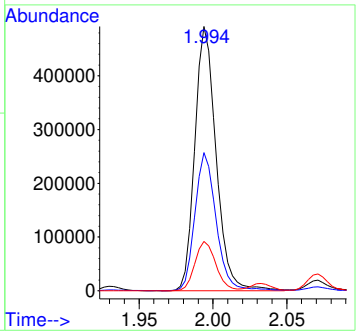


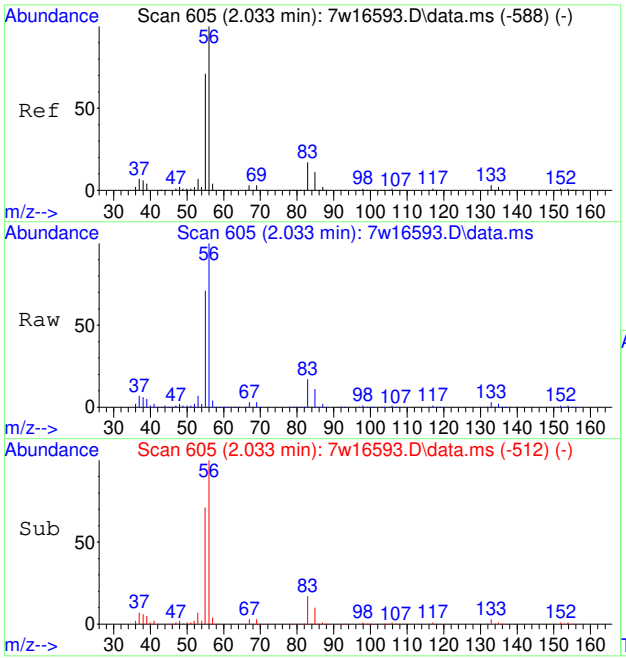


#17
ACETONITRILE
Concen: 39.40 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 492619

Ion	Ratio	Lower	Upper
41	100		
40	52.0	36.7	68.1
39	18.3	13.1	24.3

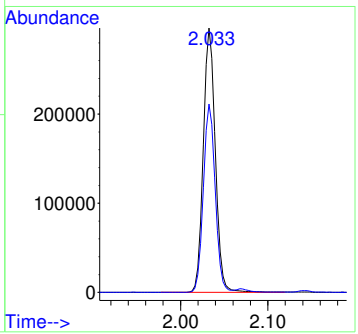


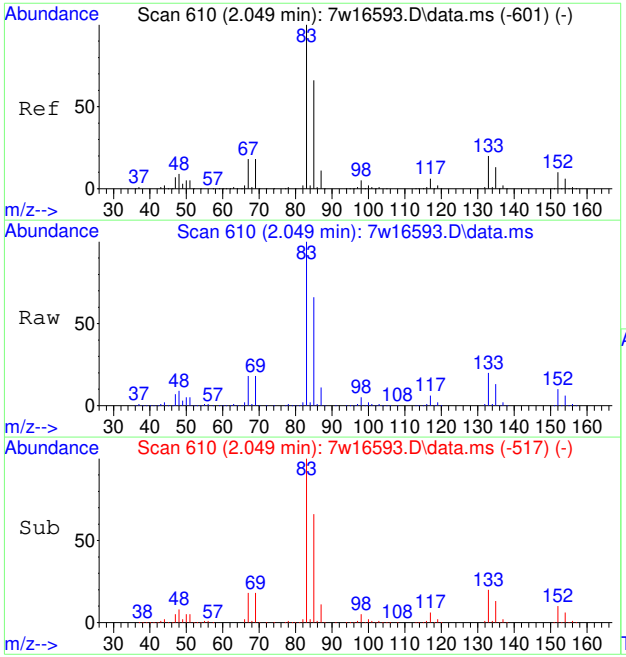


#18
ACROLEIN
Concen: 48.79 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 56 Resp: 284178

Ion	Ratio	Lower	Upper
56	100		
55	70.2	48.9	90.7

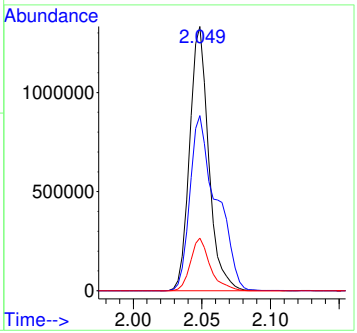


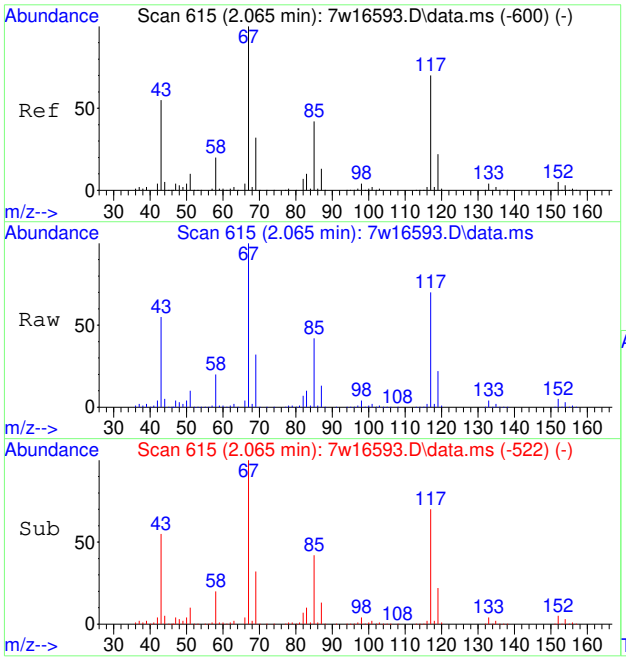


#19
FREON 123
Concen: 52.41 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1284287

Ion	Ratio	Lower	Upper
83	100		
85	92.9	64.9	120.5
133	20.7	14.7	27.3

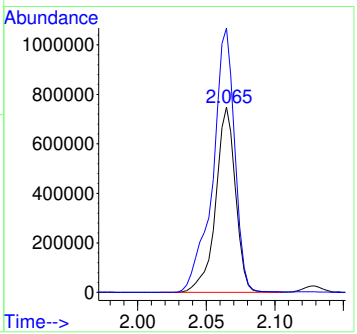


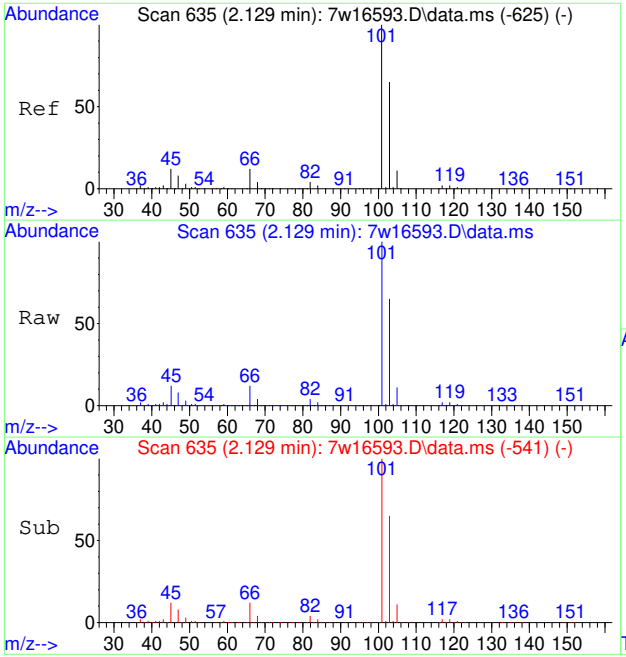


#20
FREON 123A
Concen: 51.67 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 752289

Ion	Ratio	Lower	Upper
117	100		
67	157.8	111.3	206.7

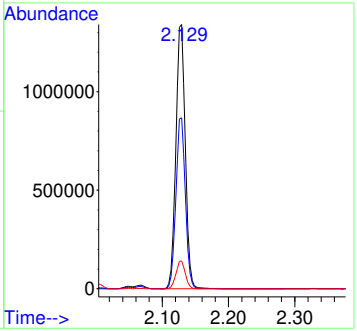


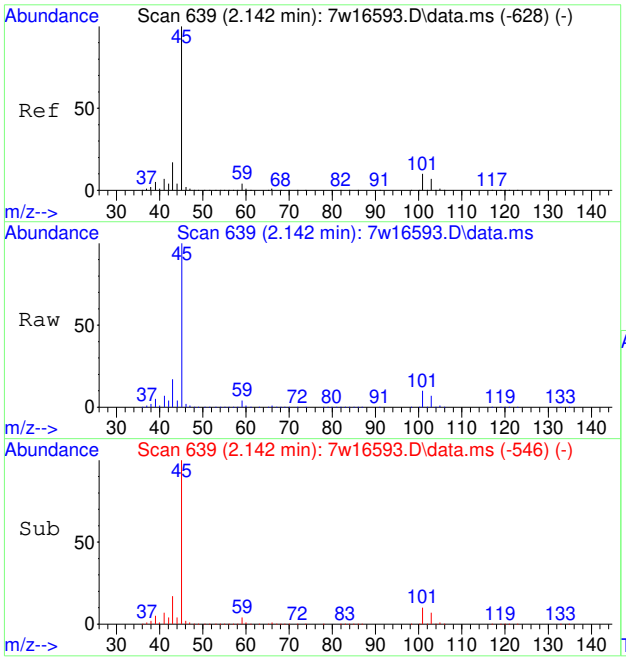


#21
TRICHLOROFLUOROMETHANE
Concen: 47.77 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:101 Resp: 1332114

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.5	7.3	13.5

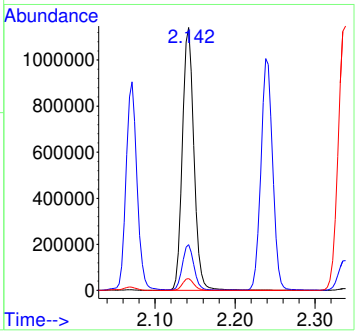


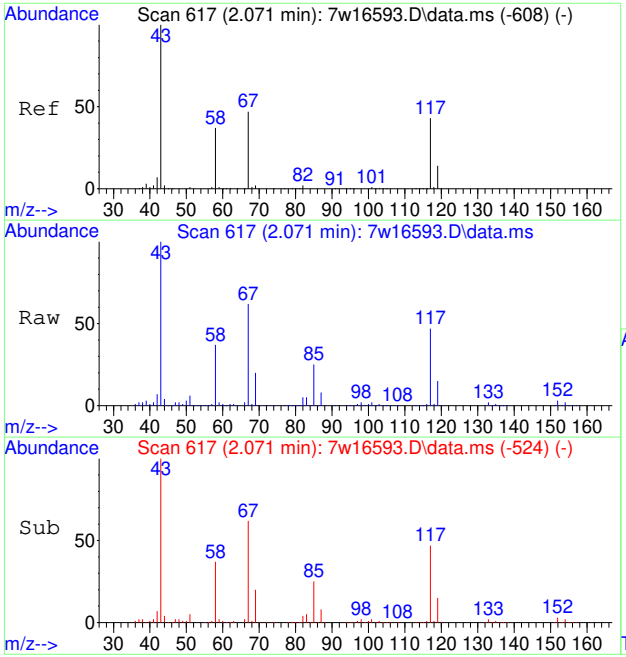


#22
ISOPROPYL ALCOHOL
Concen: 47.91 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 1144041

Ion	Ratio	Lower	Upper
45	100		
43	17.6	12.5	23.3
59	4.5	3.1	5.7

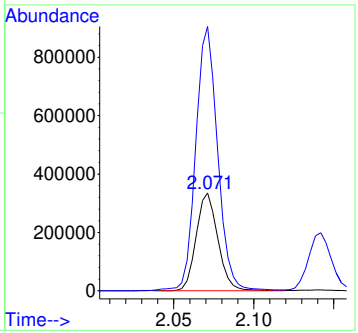


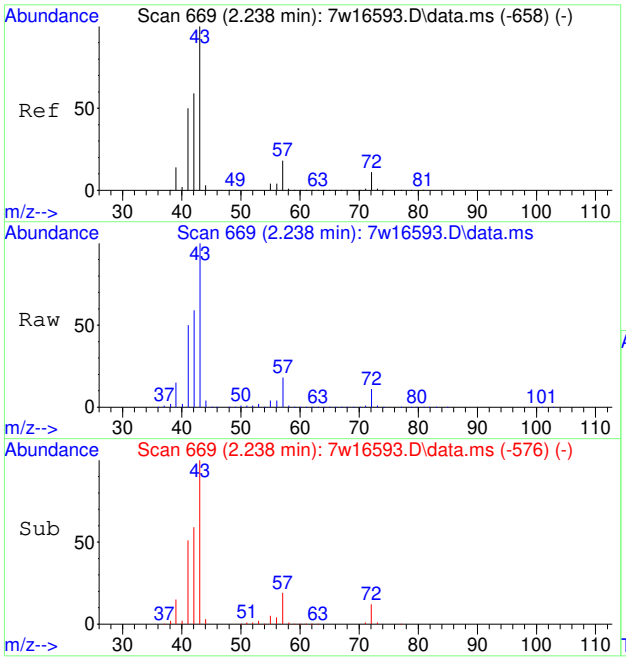


#23
ACETONE
Concen: 48.52 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 315550

Ion	Ratio	Lower	Upper
58	100		
43	272.7	198.6	368.8

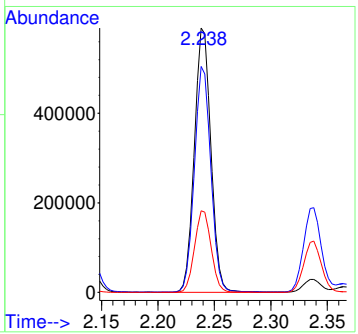


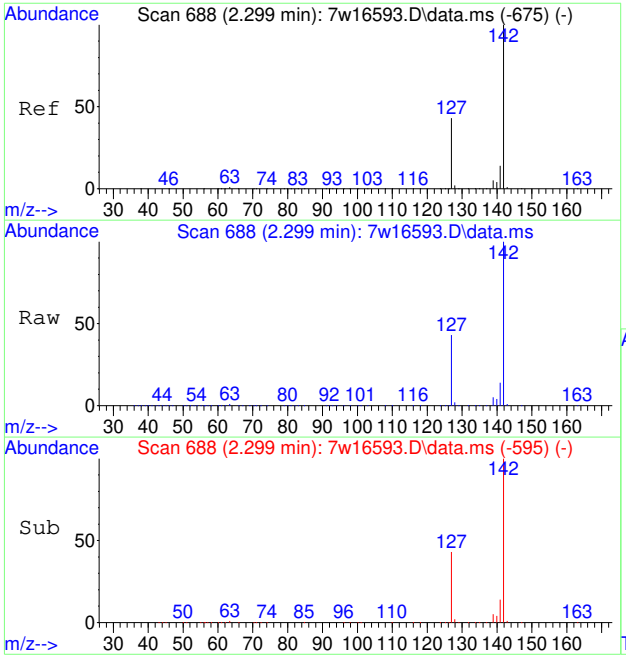


#24
PENTANE
Concen: 46.26 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 42 Resp: 600441

Ion	Ratio	Lower	Upper
42	100		
41	85.1	59.8	111.0
57	31.1	21.1	39.1

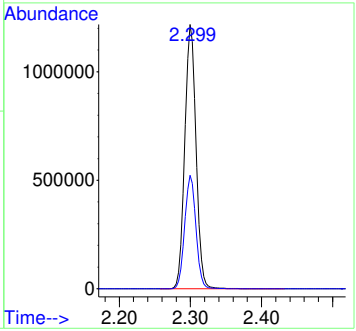


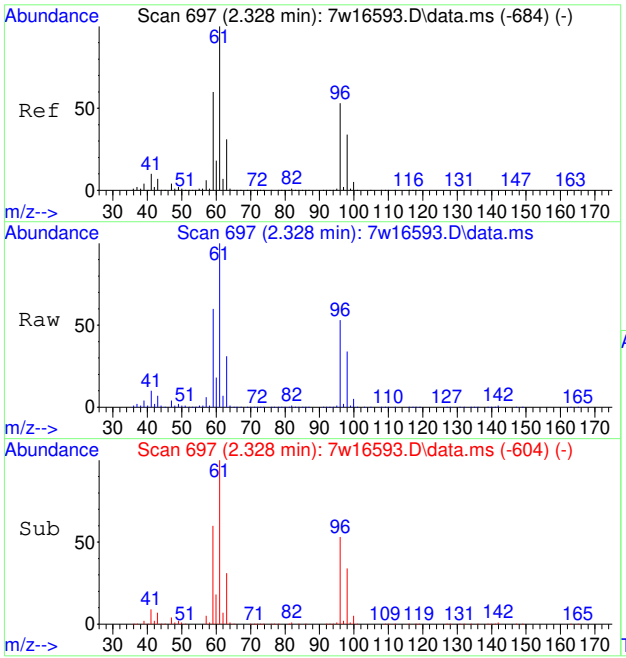


#25
IODOMETHANE
Concen: 52.52 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:142 Resp: 1336999

Ion	Ratio	Lower	Upper
142	100		
127	42.9	30.6	56.8

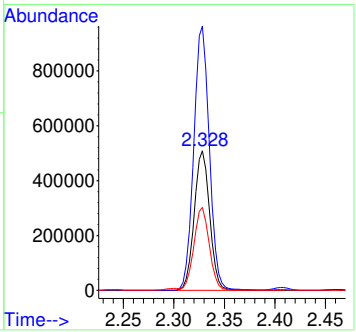


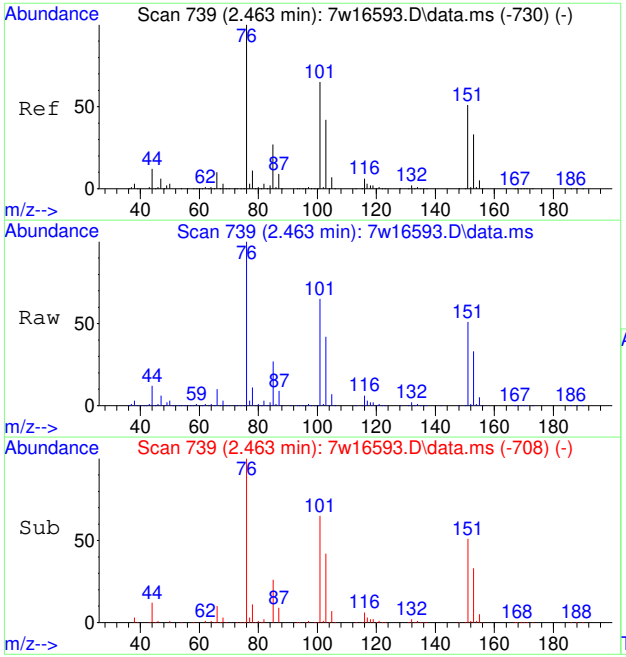


#26
1,1-DICHLOROETHYLENE
Concen: 51.15 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 541882

Ion	Ratio	Lower	Upper
96	100		
61	190.6	138.3	256.8
63	60.5	44.2	82.0

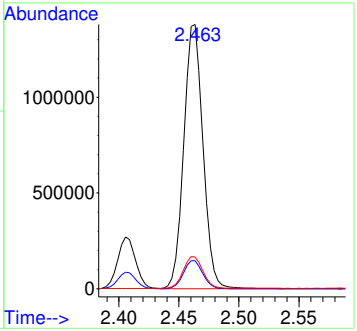


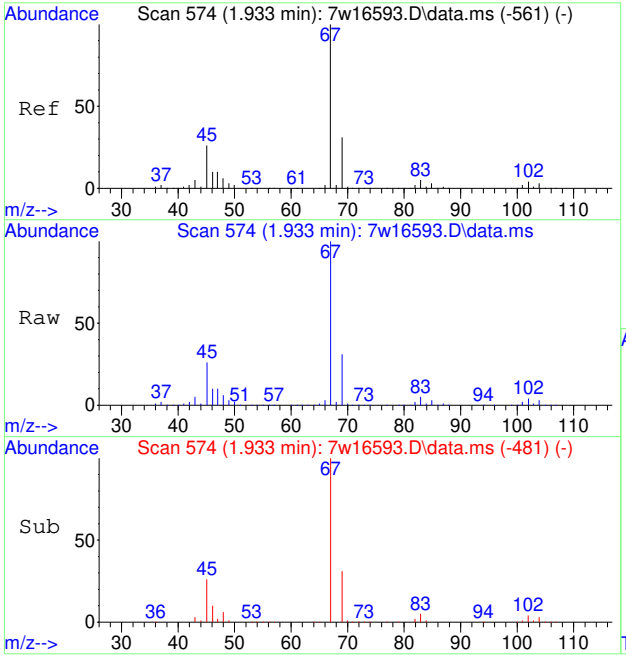


#27
CARBON DISULFIDE
Concen: 51.13 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1536663

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.4	10.2	19.0

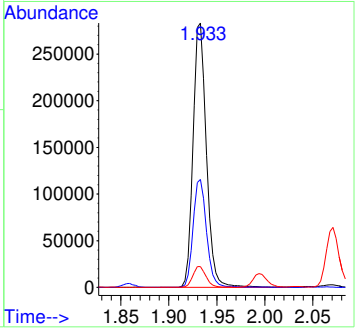


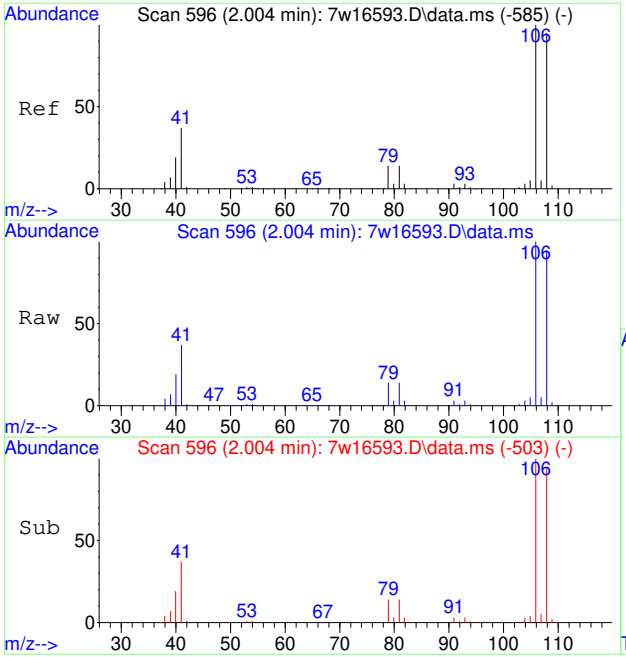


#28
ETHANOL
Concen: 42.83 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 274276

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.7	5.7	10.5

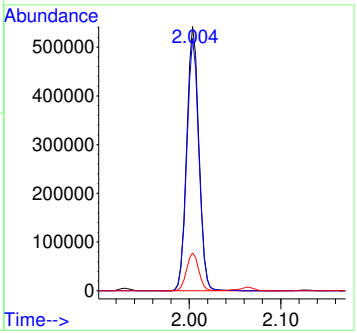


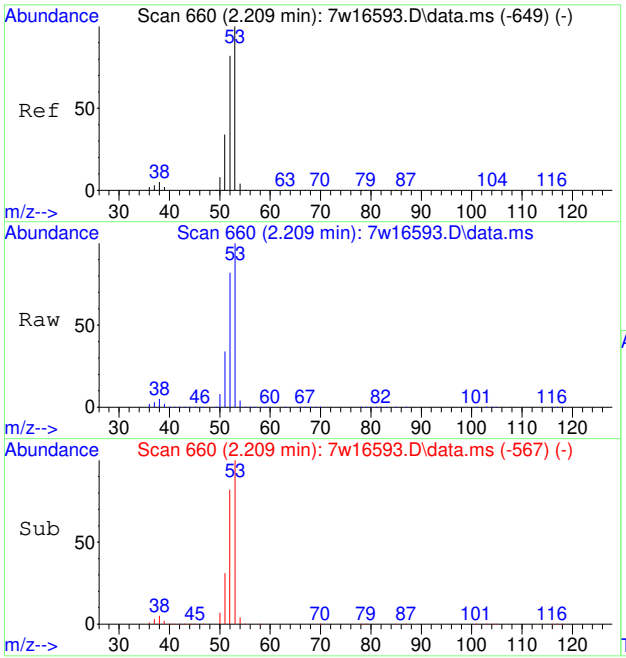


#29
BROMOETHENE
Concen: 50.05 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:106 Resp: 503032

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.2	10.6	19.8

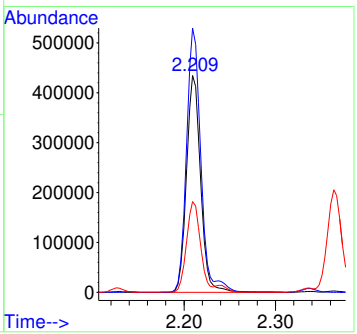


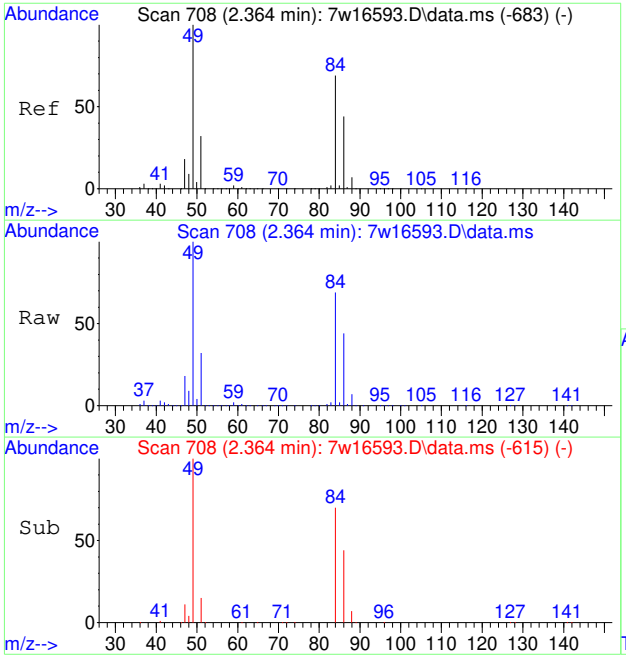


#30
ACRYLONITRILE
Concen: 51.19 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 465157

Ion	Ratio	Lower	Upper
52	100		
53	124.1	88.2	163.8
51	44.3	31.3	58.1

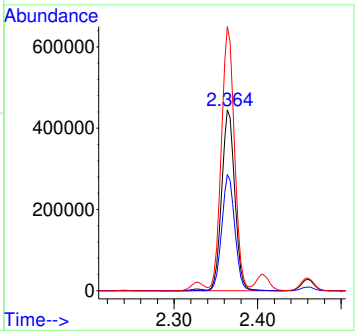


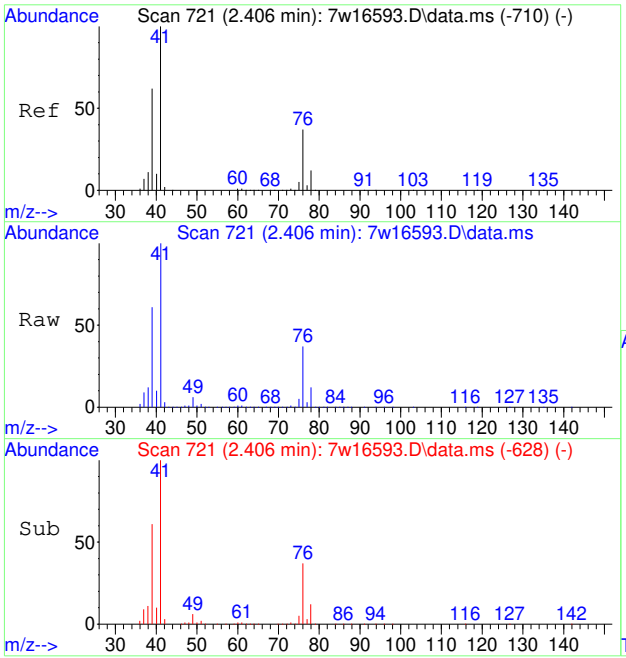


#31
METHYLENE CHLORIDE
Concen: 46.46 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 488512

Ion	Ratio	Lower	Upper
84	100		
86	63.6	44.3	82.3
49	145.0	109.5	203.3

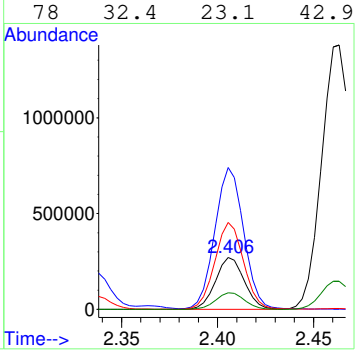


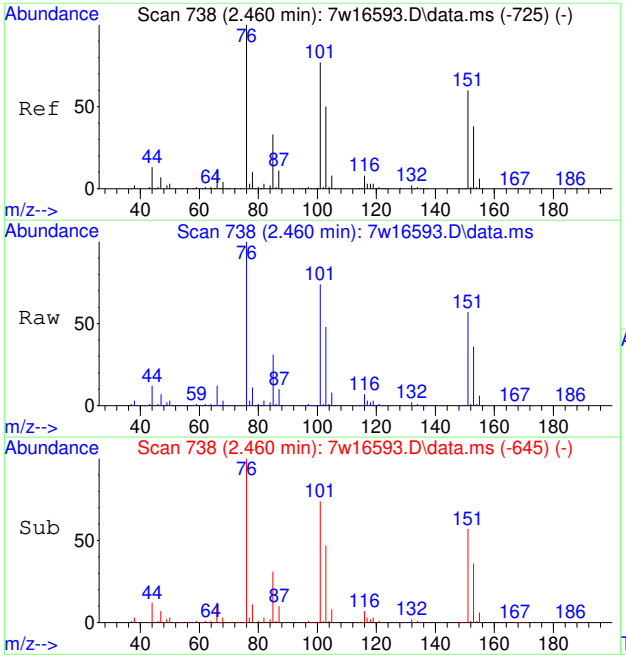


#32
3-CHLOROPROPENE
Concen: 50.05 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 282447

Ion	Ratio	Lower	Upper
76	100		
41	275.4	202.6	376.2
39	167.8	125.8	233.6
78	32.4	23.1	42.9

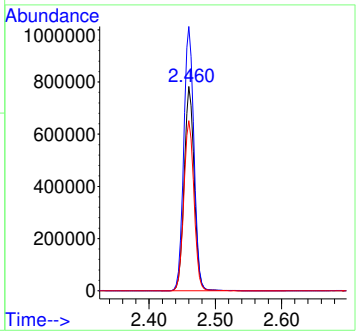


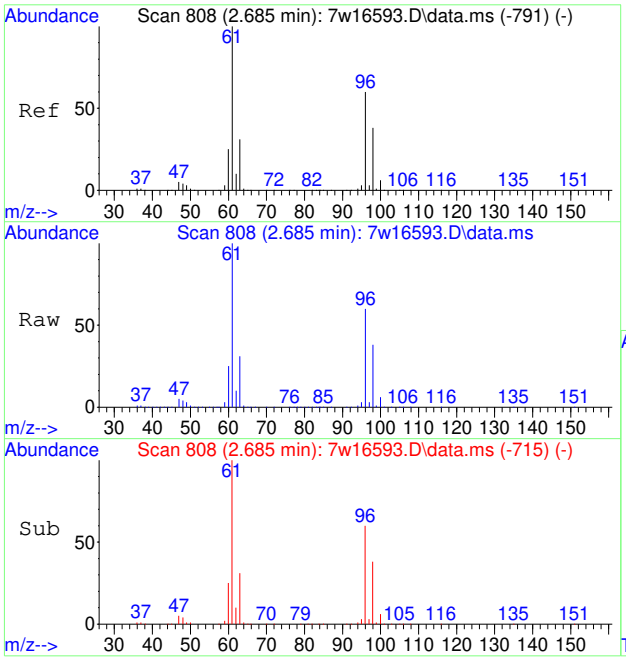


#33
FREON 113
Concen: 52.05 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:151 Resp: 827135

Ion	Ratio	Lower	Upper
151	100		
101	131.1	93.1	172.9
103	84.6	60.1	111.5

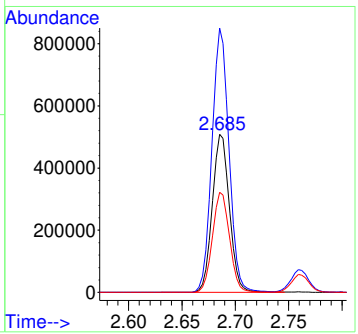


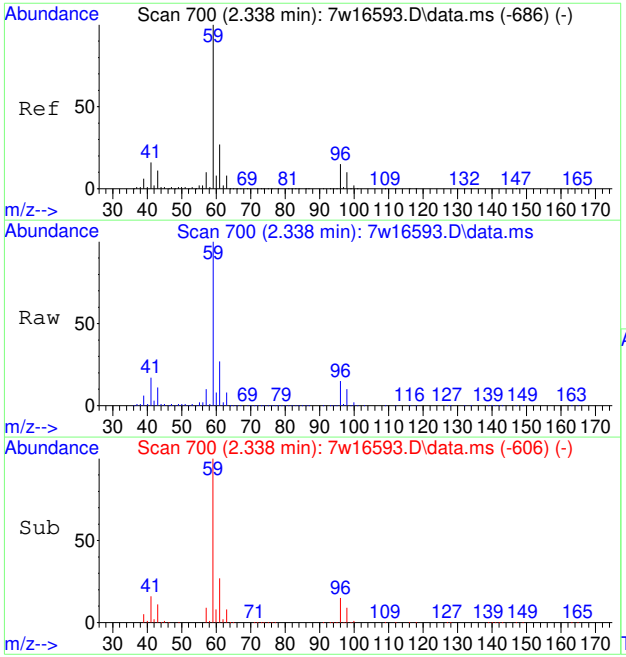


#34
TRANS-1,2-DICHLOROETHENE
Concen: 48.66 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 567495

Ion	Ratio	Lower	Upper
96	100		
61	165.8	119.6	222.0
98	63.4	44.9	83.5

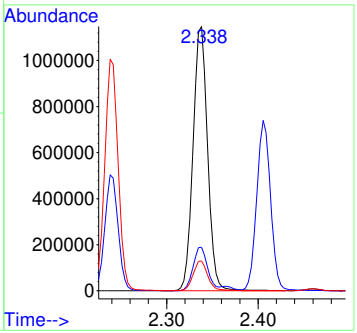


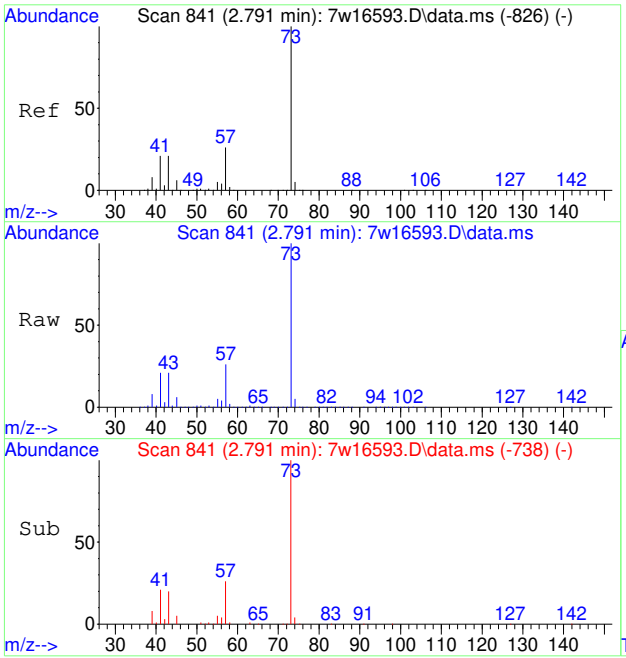


#35
TERTIARY BUTYL ALCOHOL
Concen: 42.60 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 1271463

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.3	8.0	14.8

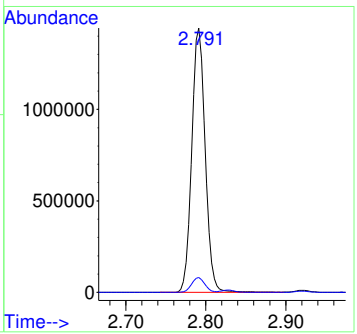


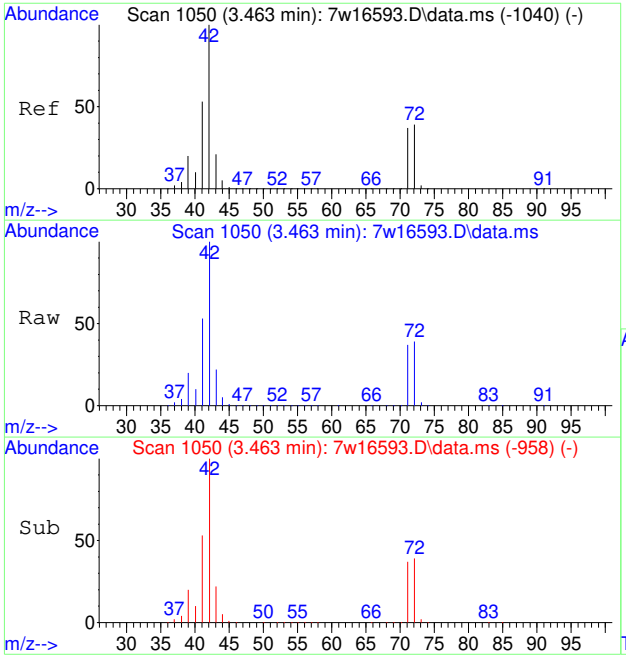


#36
METHYL TERTIARY BUTYL ETHER
Concen: 50.99 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 73 Resp: 1685636

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

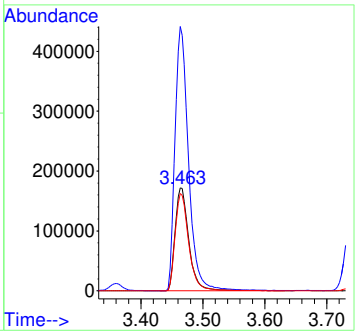


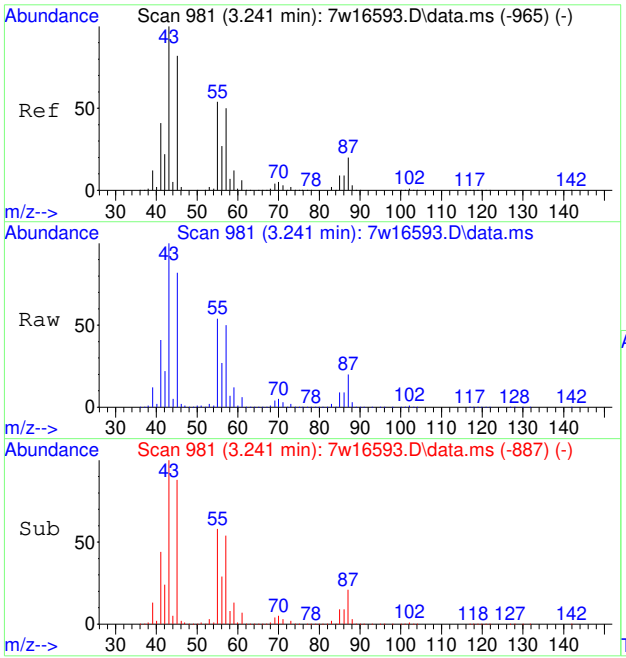


#37
TETRAHYDROFURAN
Concen: 49.92 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 264475

Ion	Ratio	Lower	Upper
72	100		
42	253.2	180.3	334.8
71	93.9	65.8	122.2

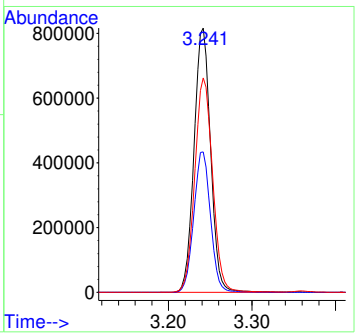


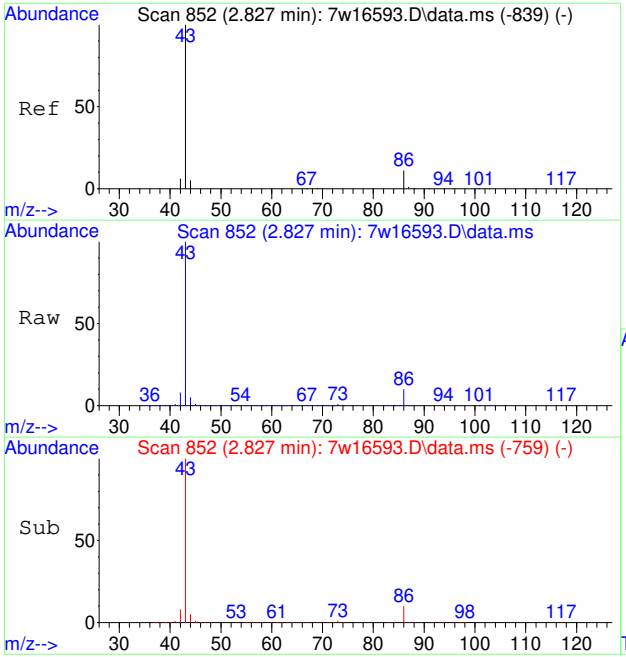


#38
HEXANE
Concen: 50.43 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1126153

Ion	Ratio	Lower	Upper
57	100		
56	53.9	38.0	70.6
41	87.4	65.9	122.5

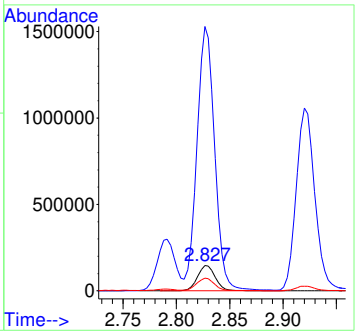


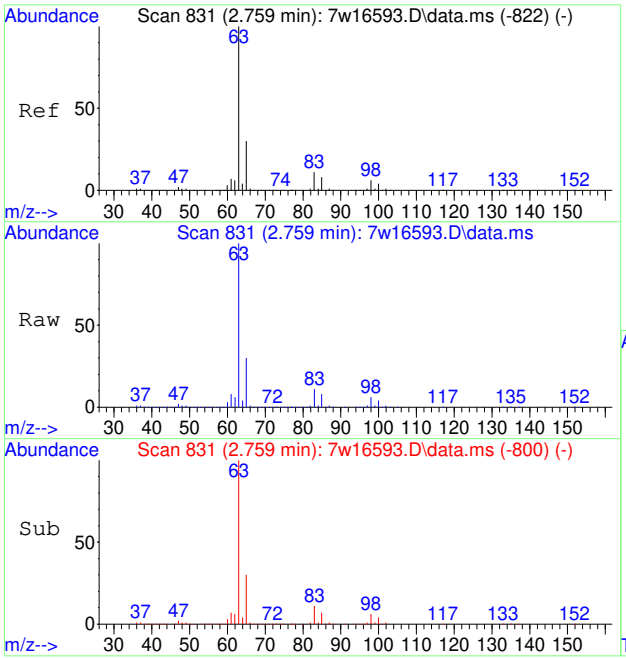


#39
VINYL ACETATE
Concen: 54.22 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 86 Resp: 168950

Ion	Ratio	Lower	Upper
86	100		
43	1048.9	758.7	1408.9
44	50.4	39.5	73.3

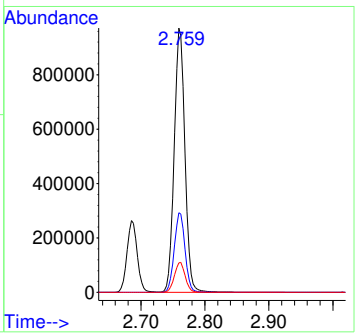


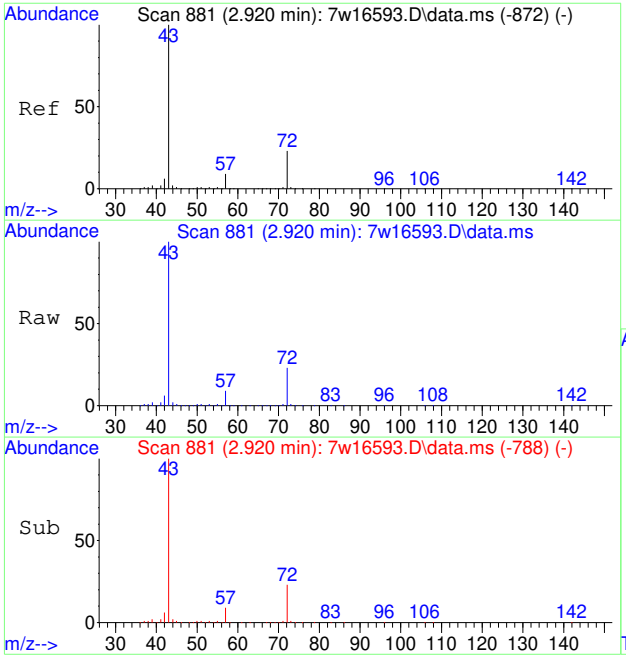


#40
1,1-DICHLOROETHANE
Concen: 50.17 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 1126676

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.4	39.8
83	11.6	8.3	15.5

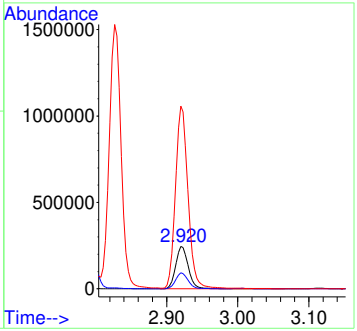


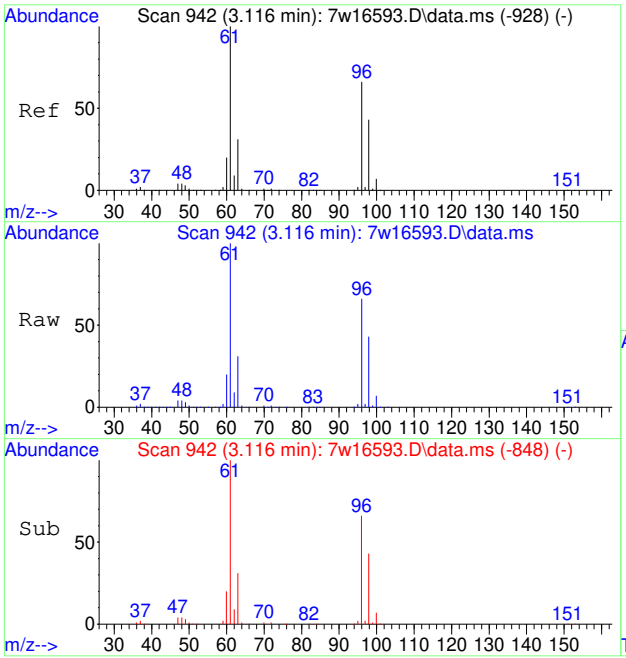


#41
METHYL ETHYL KETONE
Concen: 49.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 301446

Ion	Ratio	Lower	Upper
72	100		
57	37.5	26.9	49.9
43	433.3	309.4	574.6

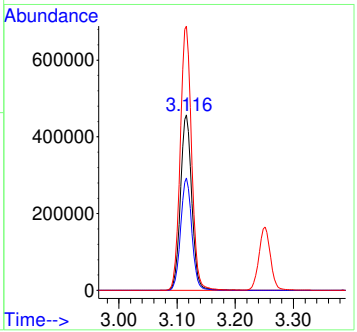


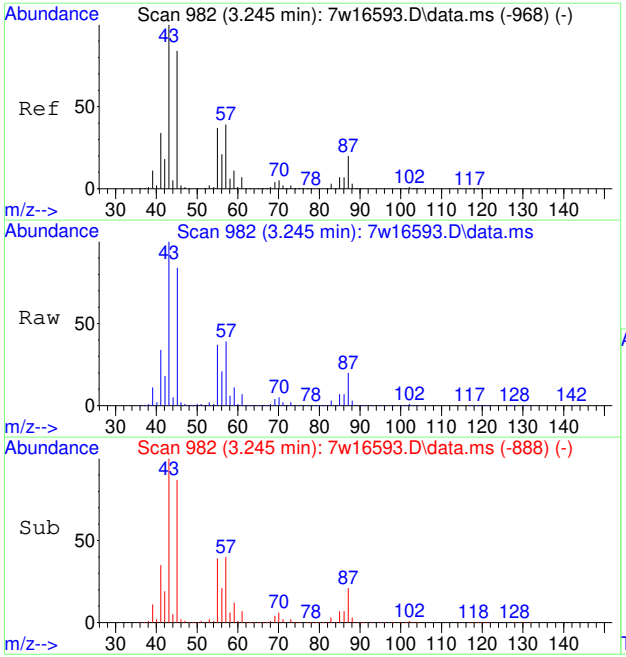


#42
CIS-1,2-DICHLOROETHENE
Concen: 51.36 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 616786

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	151.0	107.3	199.3

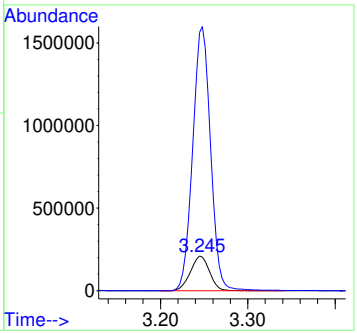


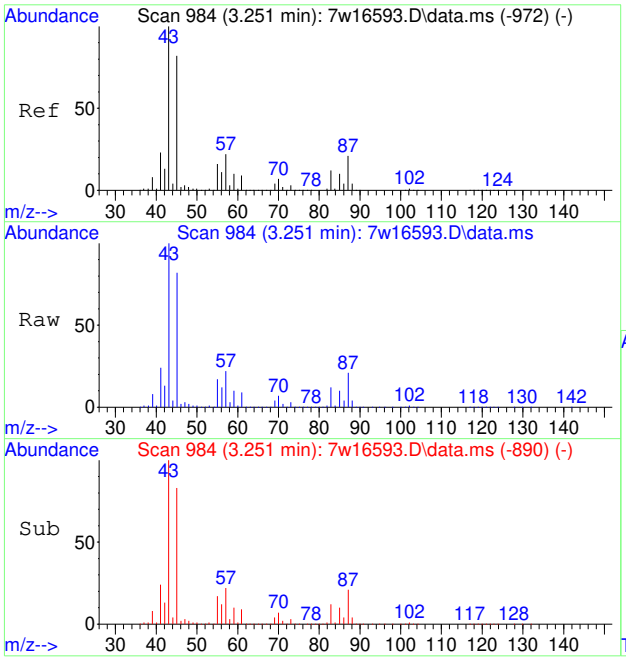


#43
DIISOPROPYL ETHER
Concen: 51.01 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 322160

Ion	Ratio	Lower	Upper
59	100		
45	709.9	517.6	961.2

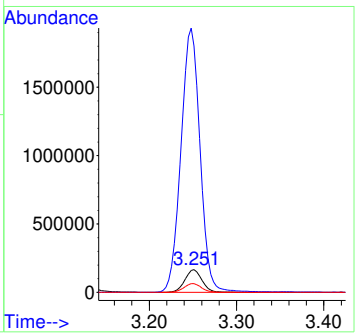


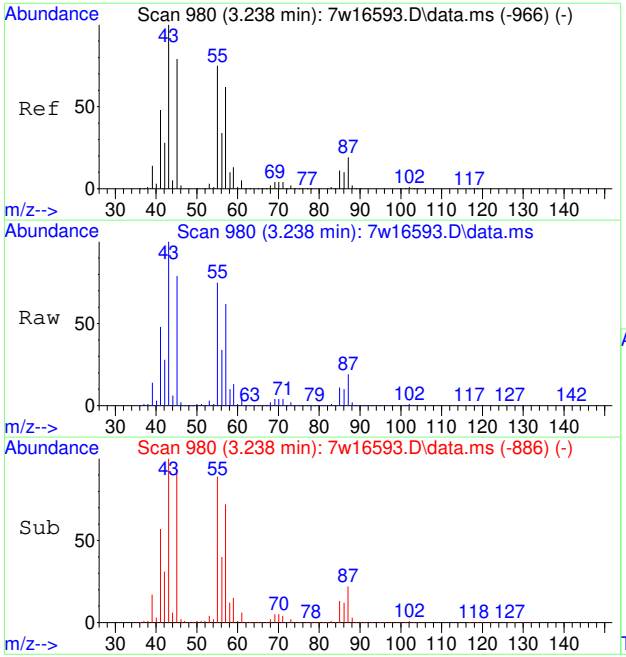


#44
ETHYL ACETATE
Concen: 54.48 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 61 Resp: 229745

Ion	Ratio	Lower	Upper
61	100		
43	1283.3	955.4	1774.4
88	40.0	27.6	51.2

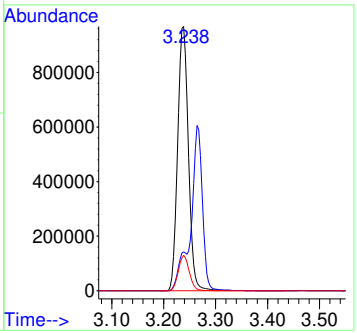


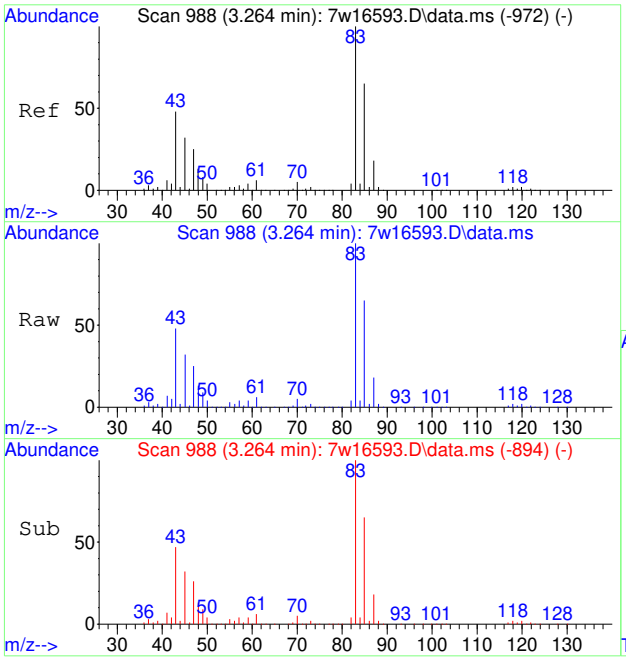


#45
METHYL ACRYLATE
Concen: 51.53 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1386411

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

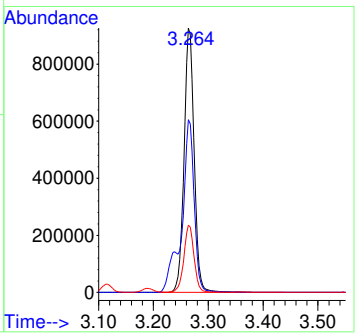


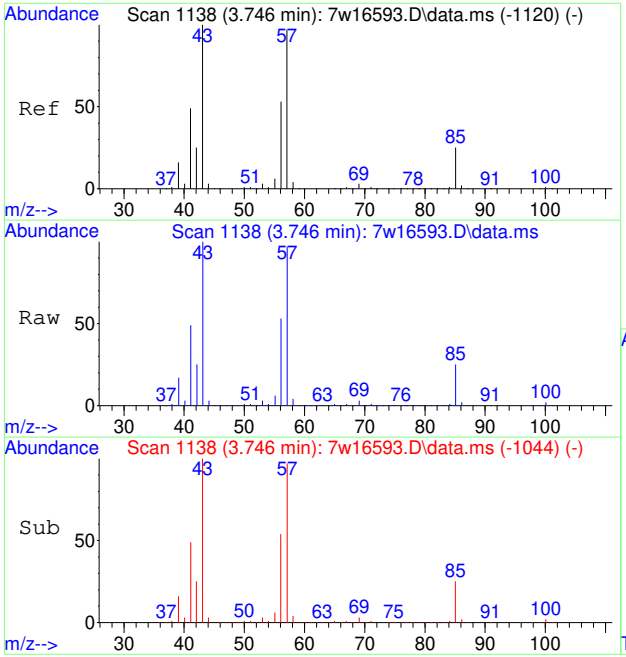


#46
CHLOROFORM
Concen: 50.69 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1180563

Ion	Ratio	Lower	Upper
83	100		
85	81.2	56.0	104.0
47	25.9	19.0	35.4

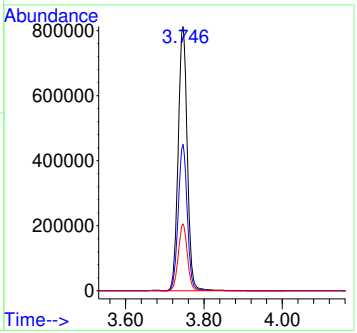


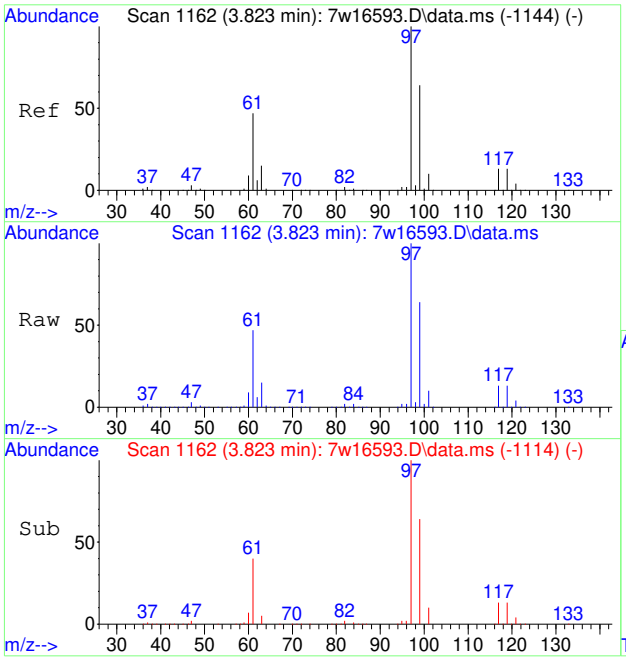


#47
2,4-DIMETHYLPENTANE
Concen: 52.75 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1310498

Ion	Ratio	Lower	Upper
57	100		
56	55.2	38.4	71.2
85	25.0	17.5	32.5

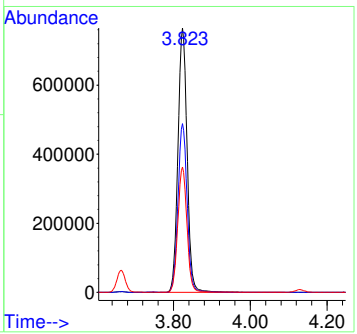


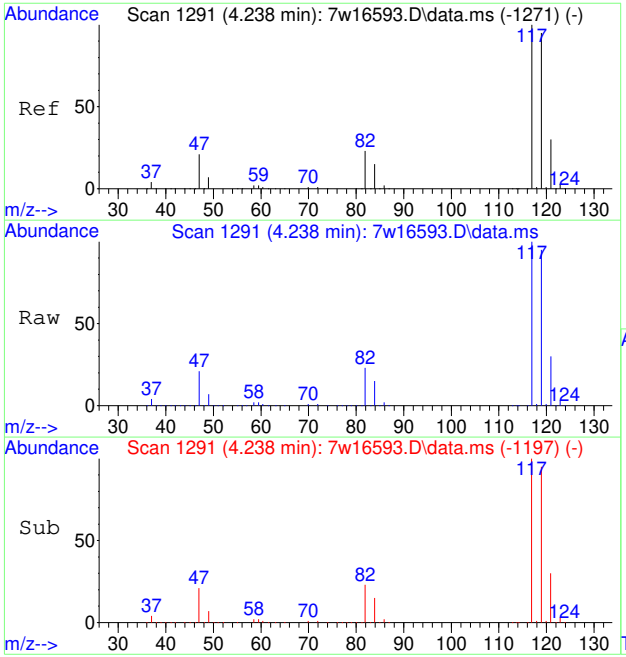


#48
1,1,1-TRICHLOROETHANE
Concen: 51.99 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 97 Resp: 1267195

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	47.8	34.7	64.5

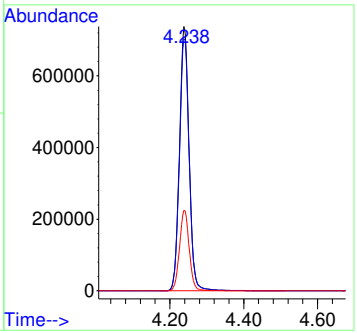


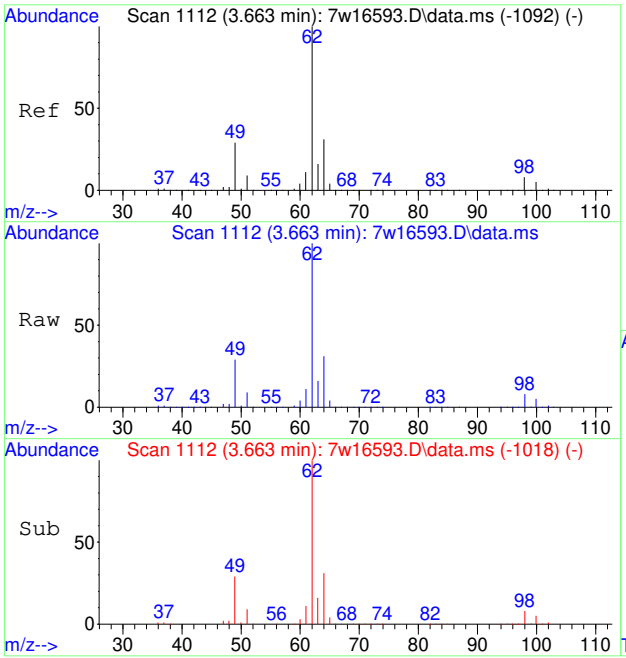


#49
CARBON TETRACHLORIDE
Concen: 53.55 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1338340

Ion	Ratio	Lower	Upper
117	100		
119	96.5	67.5	125.3
121	30.7	21.3	39.5

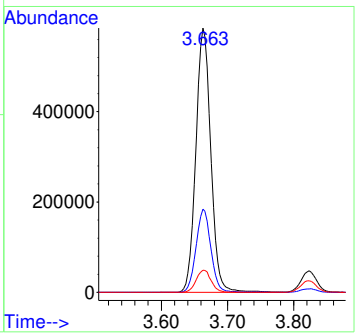


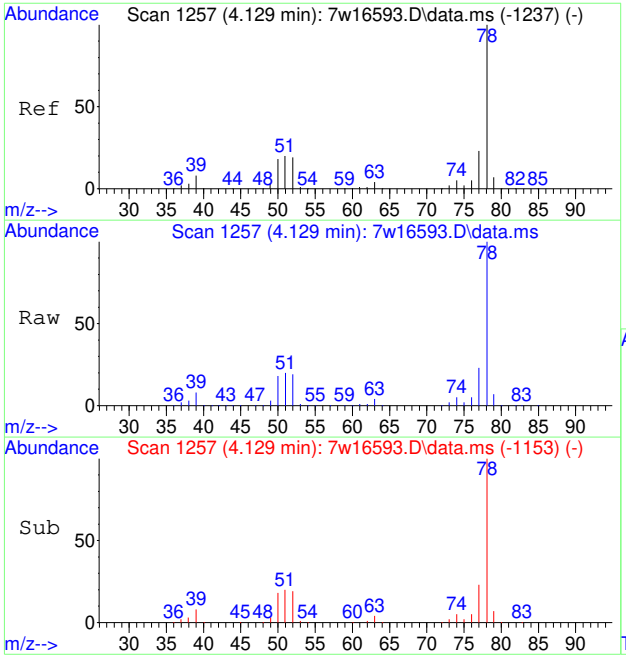


#50
1,2-DICHLOROETHANE
Concen: 51.11 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 918746

Ion	Ratio	Lower	Upper
62	100		
64	31.3	21.8	40.6
98	8.5	5.8	10.8

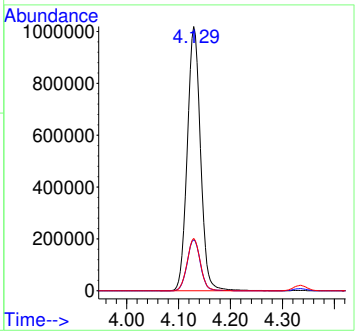


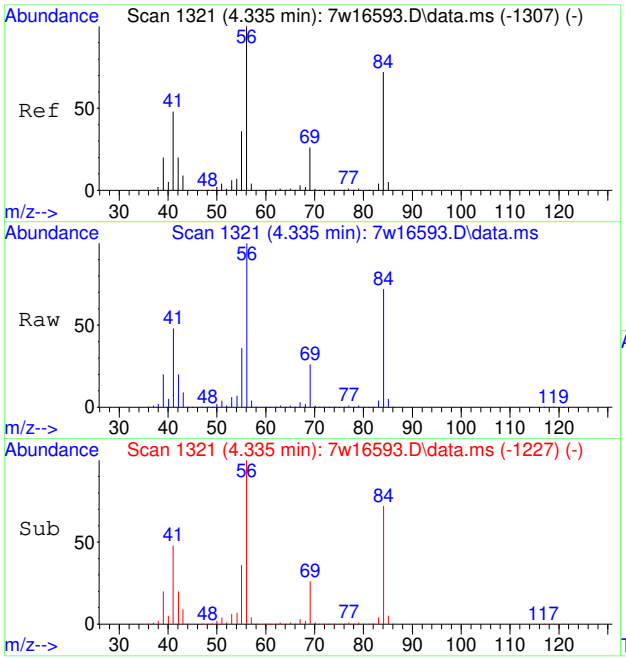


#51
BENZENE
Concen: 50.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 78 Resp: 1795488

Ion	Ratio	Lower	Upper
78	100		
52	19.6	0.0	49.9
51	19.9	0.0	50.6

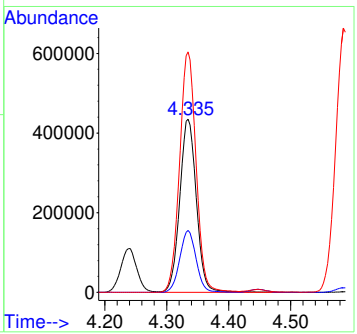


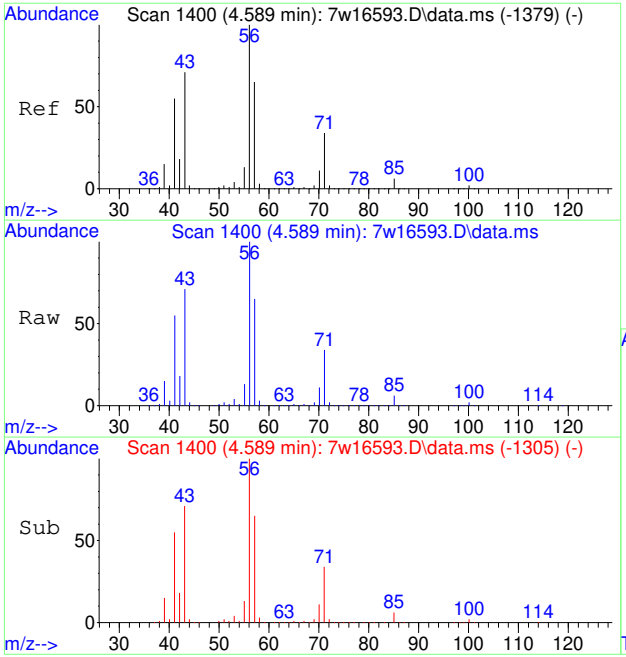


#53
CYCLOHEXANE
Concen: 52.10 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 810673

Ion	Ratio	Lower	Upper
84	100		
69	35.2	24.6	45.6
56	138.1	96.4	179.0

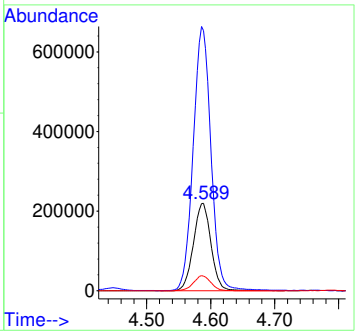


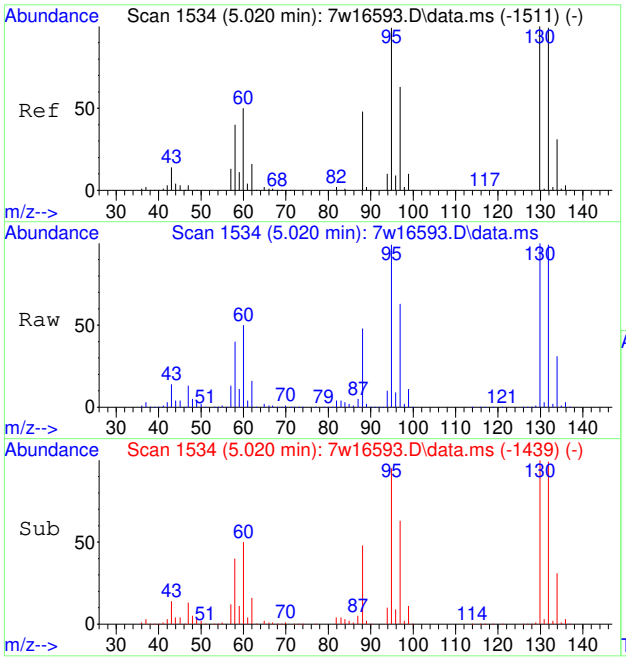


#54
2,3-DIMETHYLPENTANE
Concen: 54.59 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 71 Resp: 421378

Ion	Ratio	Lower	Upper
71	100		
56	303.1	213.2	396.0
85	17.4	12.2	22.6

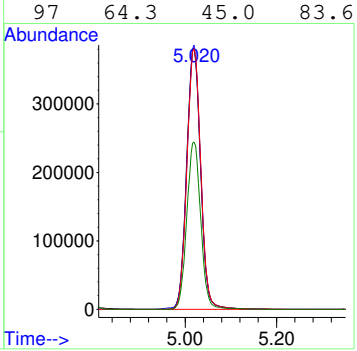


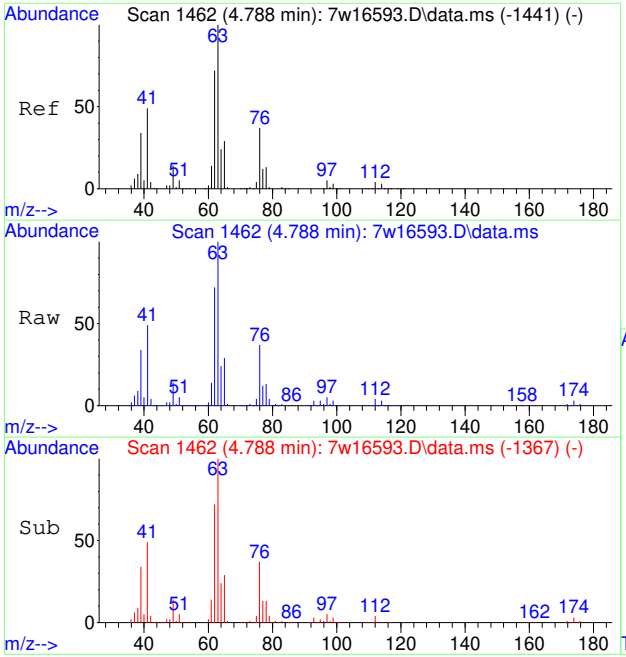


#55
TRICHLOROETHENE
Concen: 48.49 PPBV
RT: 5.020 min Scan# 1534
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 95 Resp: 808299

Ion	Ratio	Lower	Upper
95	100		
130	100.6	69.4	129.0
132	99.7	69.4	128.8
97	64.3	45.0	83.6

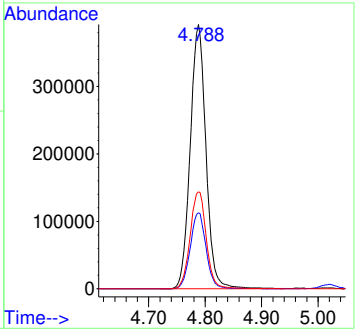


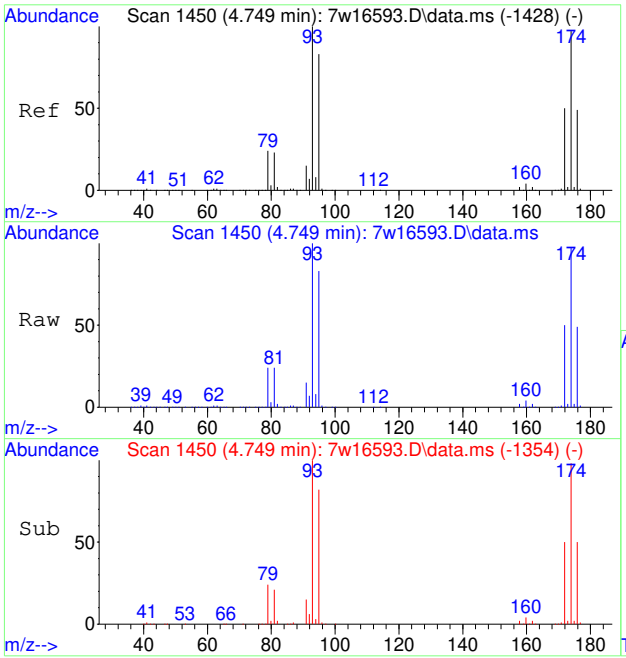


#56
1,2-DICHLOROPROPANE
Concen: 51.61 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 756985

Ion	Ratio	Lower	Upper
63	100		
65	29.2	20.5	38.1
76	37.6	27.1	50.3

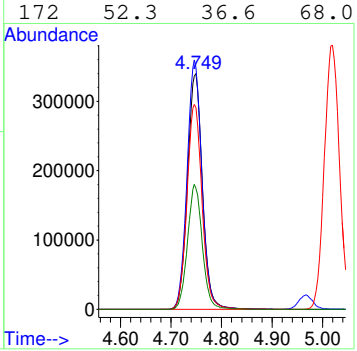


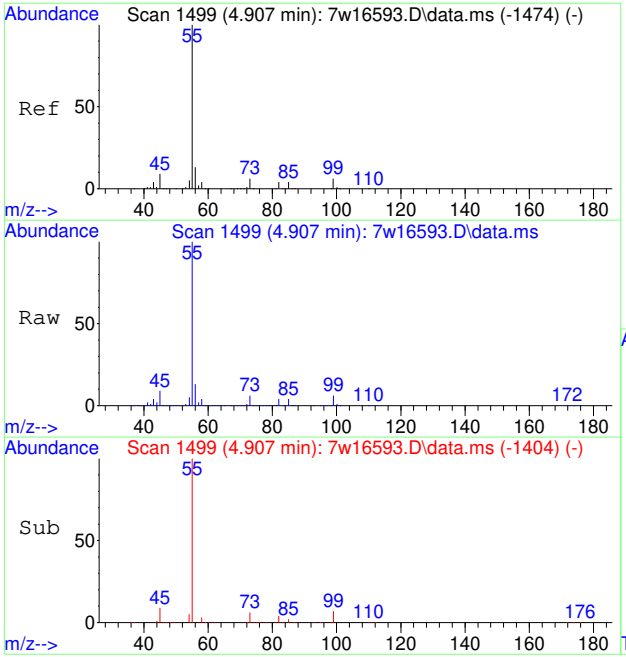


#57
DIBROMOMETHANE
Concen: 49.34 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:174 Resp: 703285

Ion	Ratio	Lower	Upper
174	100		
93	105.1	75.3	139.9
95	87.9	62.4	115.8
172	52.3	36.6	68.0

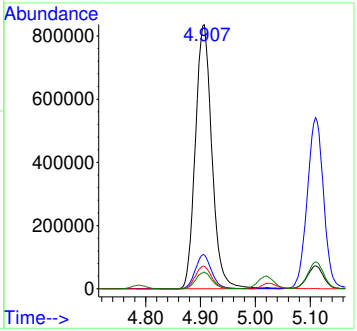


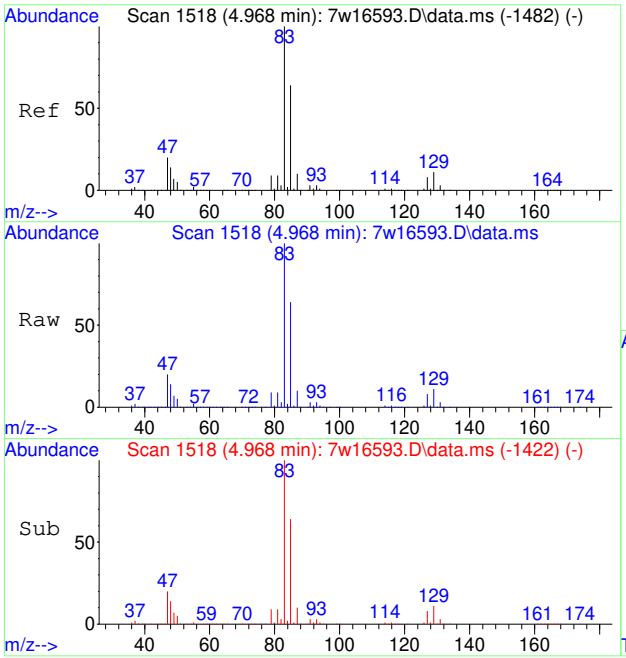


#58
ETHYL ACRYLATE
Concen: 53.53 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1751040

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.6	6.1	11.3
99	6.2	4.3	8.1

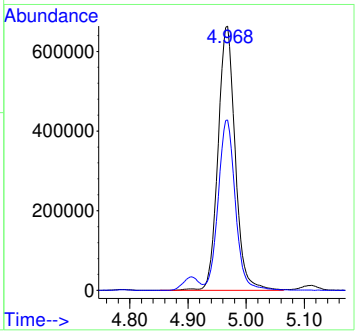


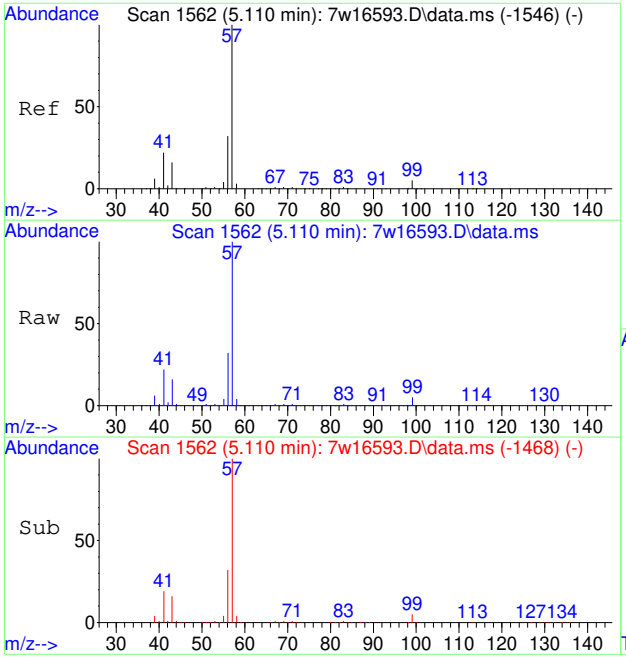


#59
BROMODICHLOROMETHANE
Concen: 51.19 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1363903

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.6	84.8

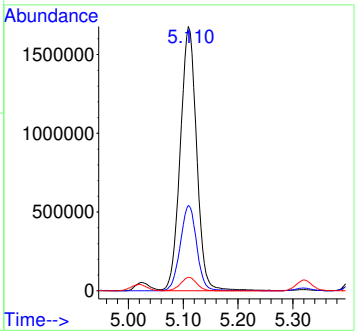


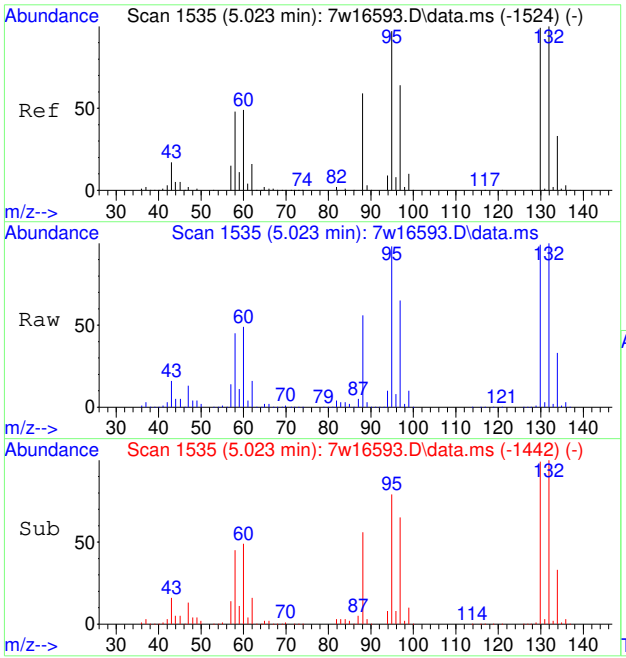


#60
2,2,4-TRIMETHYLPENTANE
Concen: 47.72 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 3474233

Ion	Ratio	Lower	Upper
57	100		
56	32.4	22.6	42.0
99	5.1	3.6	6.8

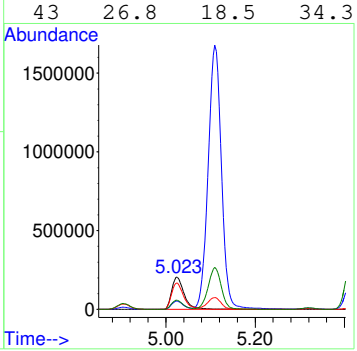


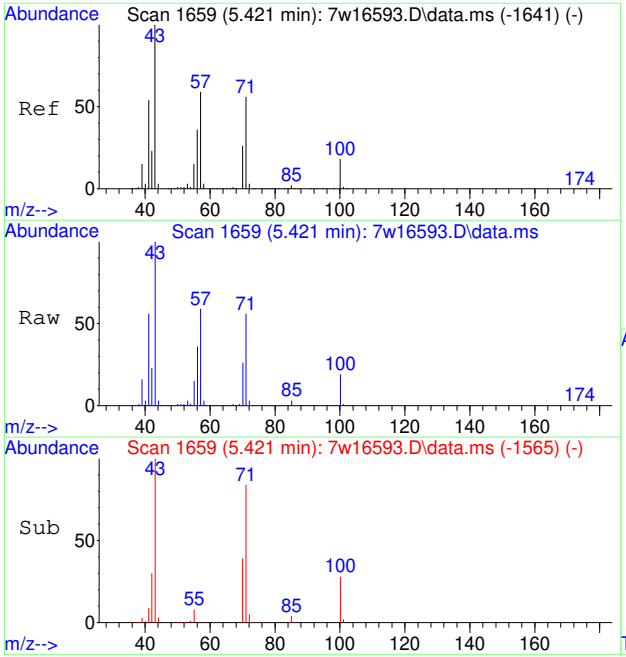


#61
1,4-DIOXANE
Concen: 51.97 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 88 Resp: 402995

Ion	Ratio	Lower	Upper
88	100		
57	24.0	16.7	30.9
58	77.9	52.4	97.4
43	26.8	18.5	34.3

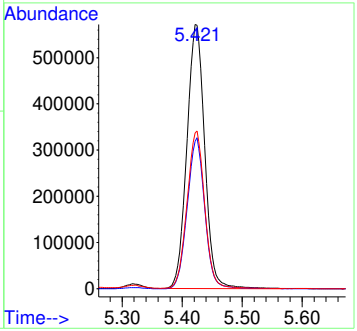


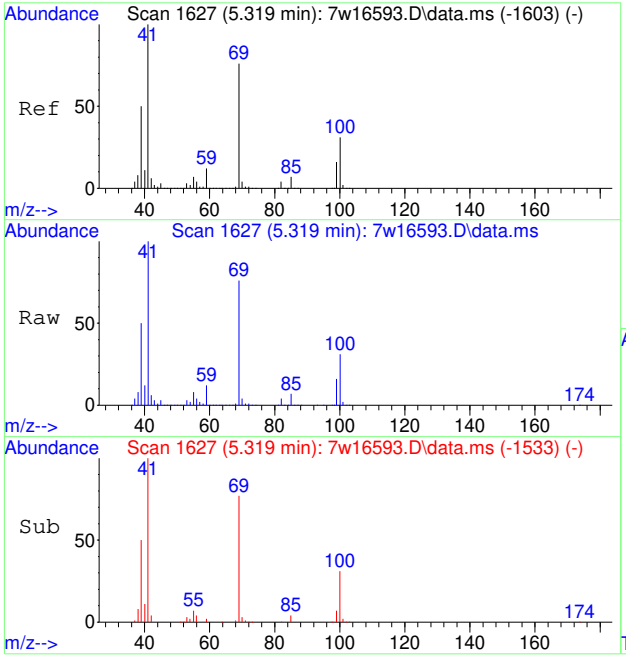


#62
HEPTANE
Concen: 49.34 PPBV
RT: 5.421 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1183014

Ion	Ratio	Lower	Upper
43	100		
71	56.1	38.9	72.2
57	59.0	40.5	75.3

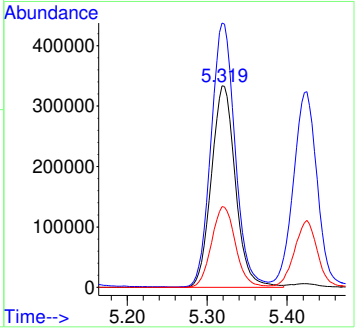


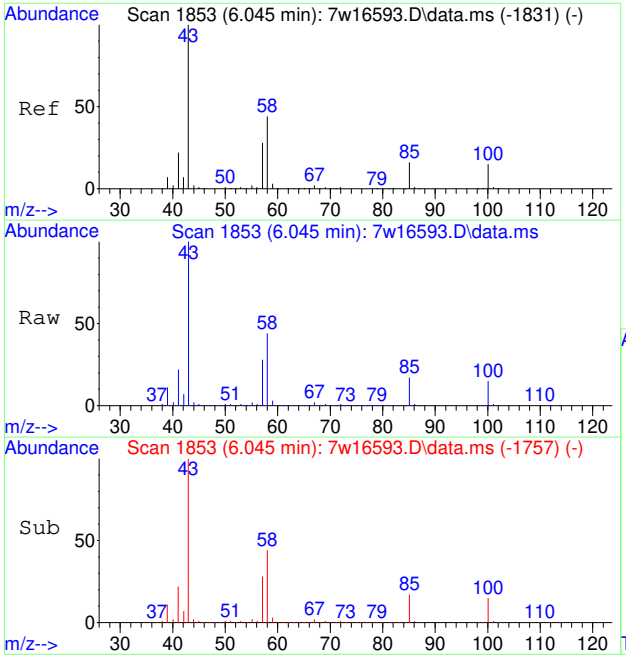


#63
METHYL METHACRYLATE
Concen: 52.38 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 696280

Ion	Ratio	Lower	Upper
69	100		
41	130.9	95.5	177.4
100	40.0	28.1	52.1

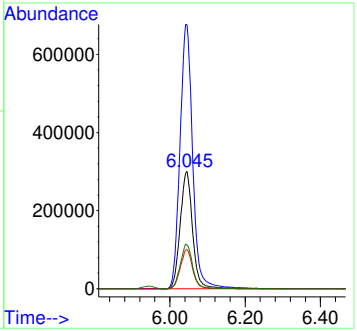


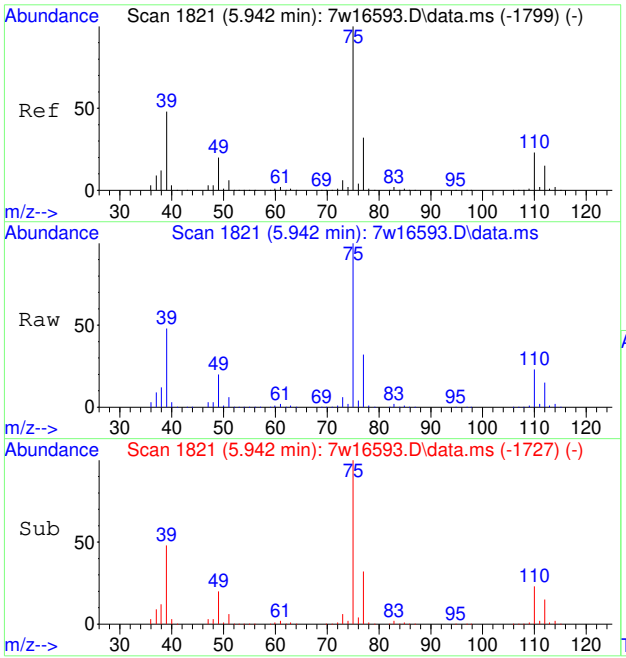


#64
METHYL ISOBUTYL KETONE
Concen: 48.13 PPBV
RT: 6.045 min Scan# 1853
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 692709

Ion	Ratio	Lower	Upper
58	100		
43	229.1	163.8	304.2
100	33.4	23.2	43.2
85	38.0	26.5	49.3

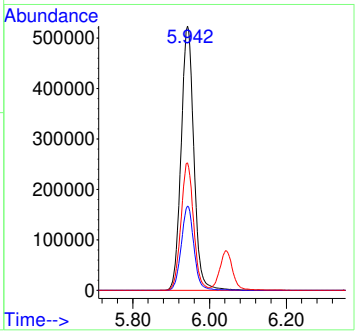


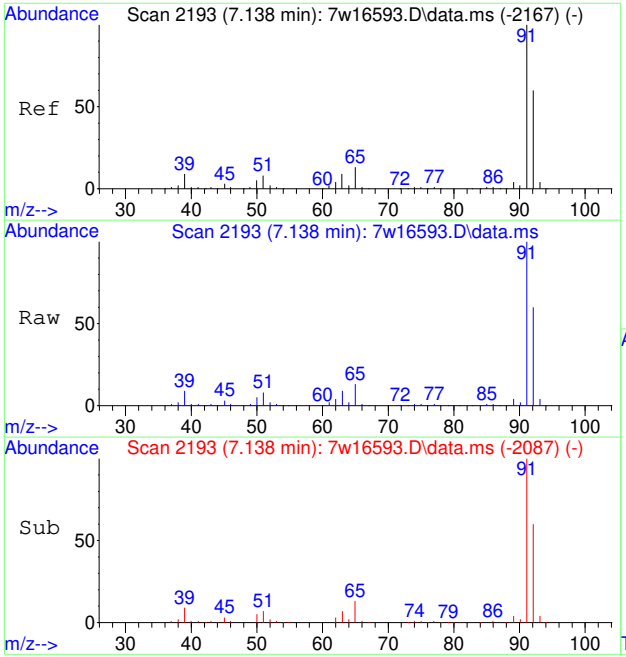


#65
CIS-1,3-DICHLOROPROPENE
Concen: 54.68 PPBV
RT: 5.942 min Scan# 1821
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1209649

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.0	41.0
39	47.8	35.7	66.3

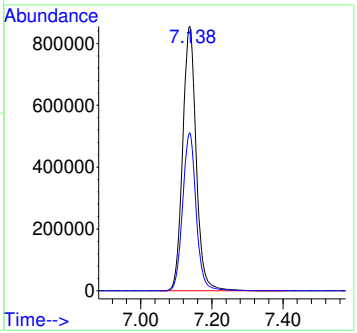


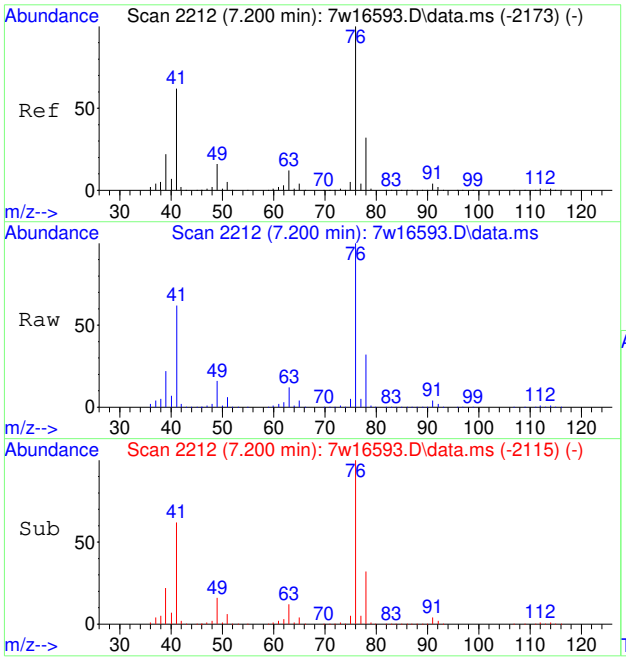


#66
TOLUENE
Concen: 53.54 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2257380

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

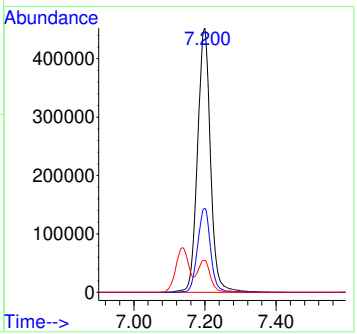


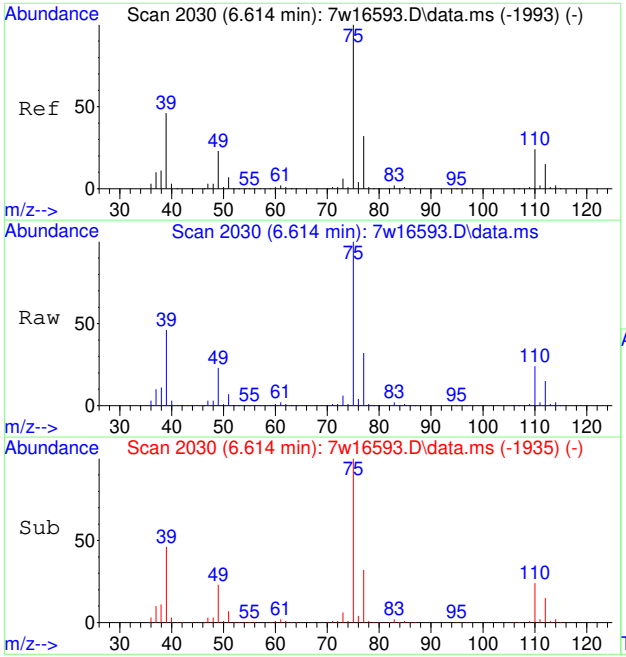


#67
1,3-DICHLOROPROPANE
Concen: 54.57 PPBV
RT: 7.200 min Scan# 2212
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1150031

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	11.7	8.3	15.5

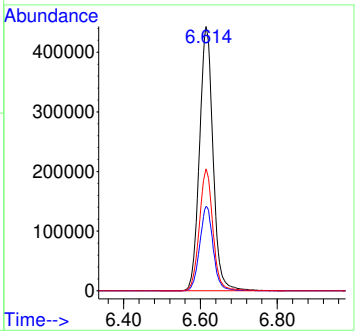


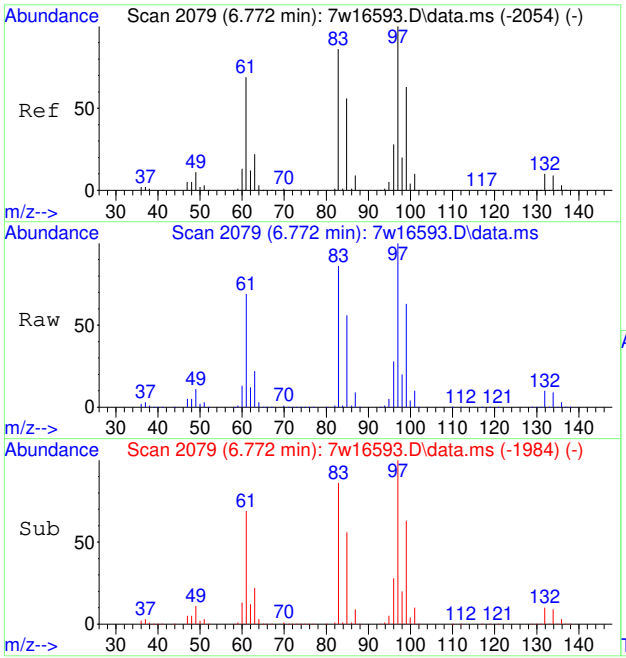


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 55.09 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1086853

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.3	41.5
39	46.3	33.9	63.0

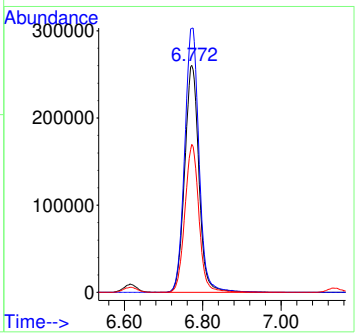


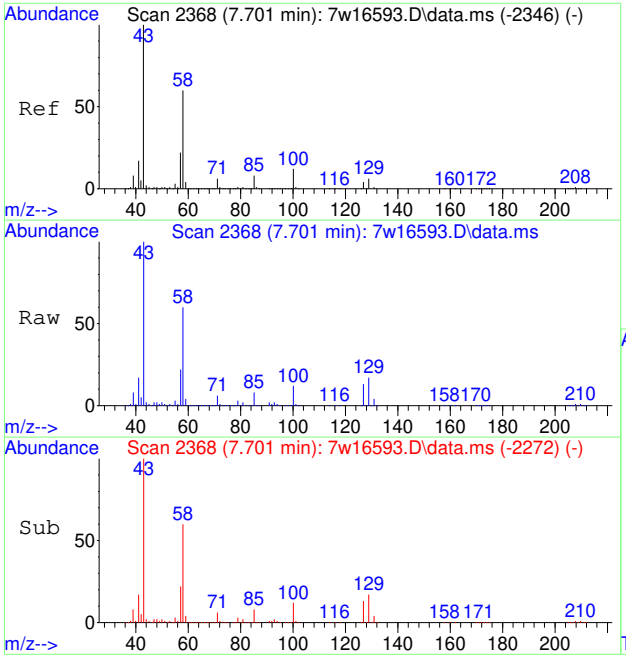


#69
1,1,2-TRICHLOROETHANE
Concen: 55.07 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 657452

Ion	Ratio	Lower	Upper
83	100		
97	117.1	81.2	150.8
85	64.6	45.1	83.7

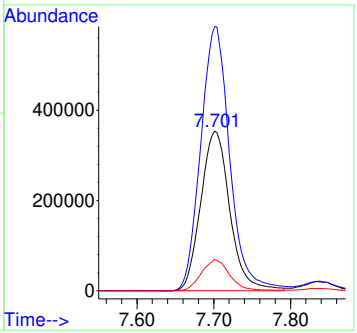


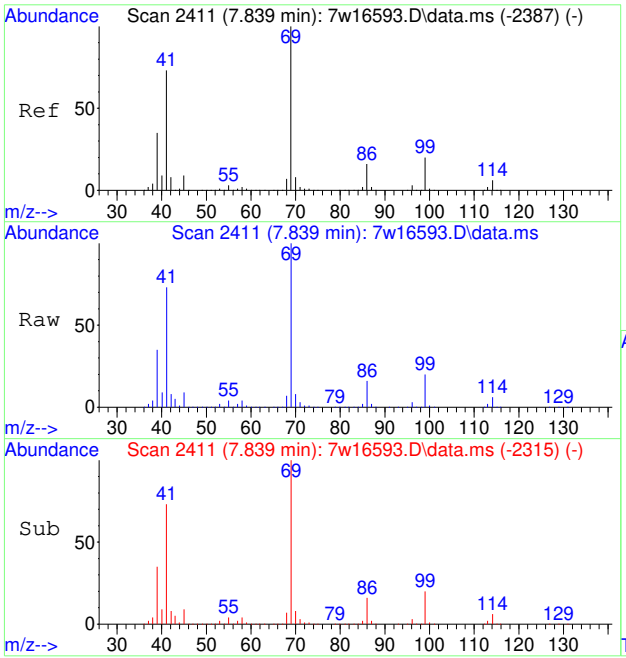


#70
2-HEXANONE
Concen: 45.78 PPBV
RT: 7.701 min Scan# 2368
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 931287

Ion	Ratio	Lower	Upper
58	100		
43	165.4	118.6	220.2
100	19.1	13.0	24.2

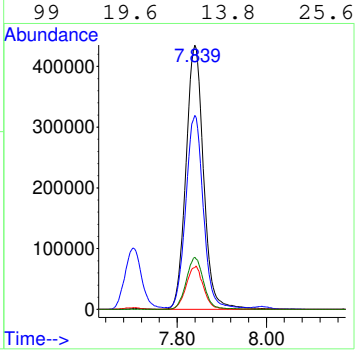


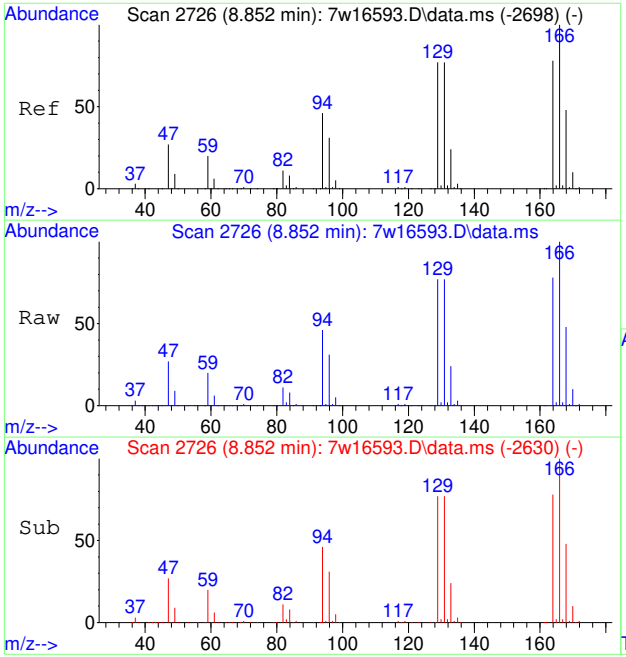


#71
ETHYL METHACRYLATE
Concen: 54.01 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 1191952

Ion	Ratio	Lower	Upper
69	100		
41	73.7	53.6	99.6
86	16.2	11.3	20.9
99	19.6	13.8	25.6

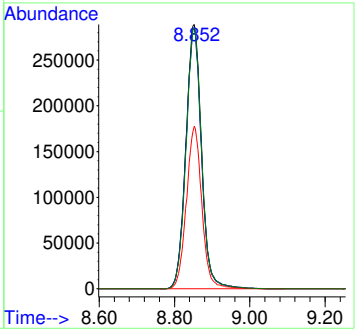


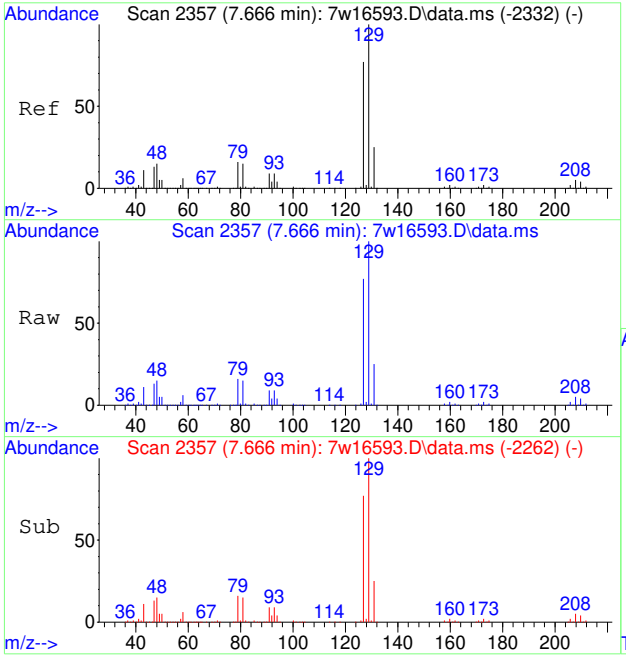


#72
TETRACHLOROETHENE
Concen: 54.58 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:164 Resp: 838148

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.1	69.4	129.0

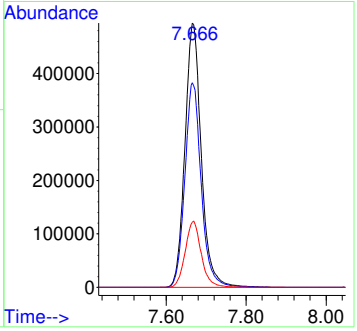


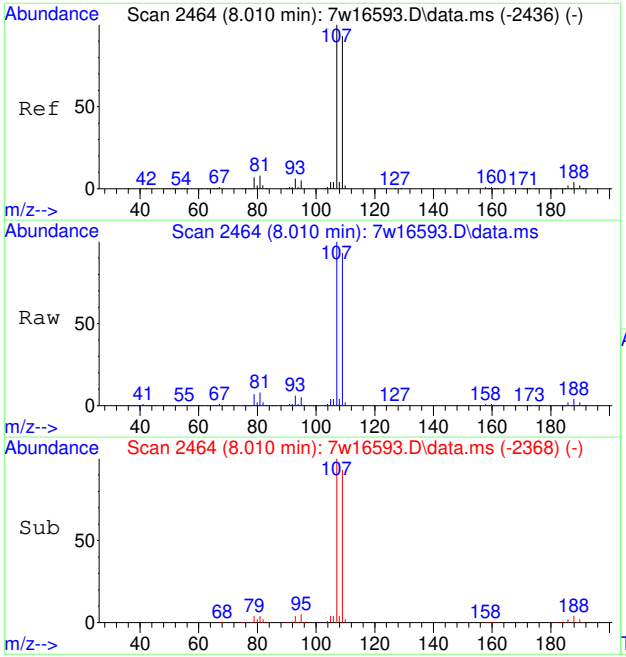


#73
DIBROMOCHLOROMETHANE
Concen: 58.86 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:129 Resp: 1403452

Ion	Ratio	Lower	Upper
129	100		
127	77.8	54.7	101.7
131	24.8	17.4	32.4

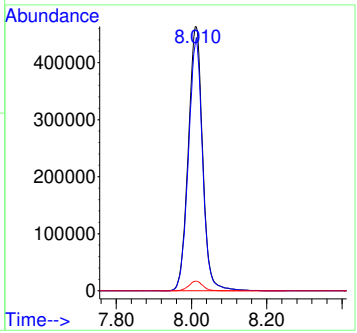


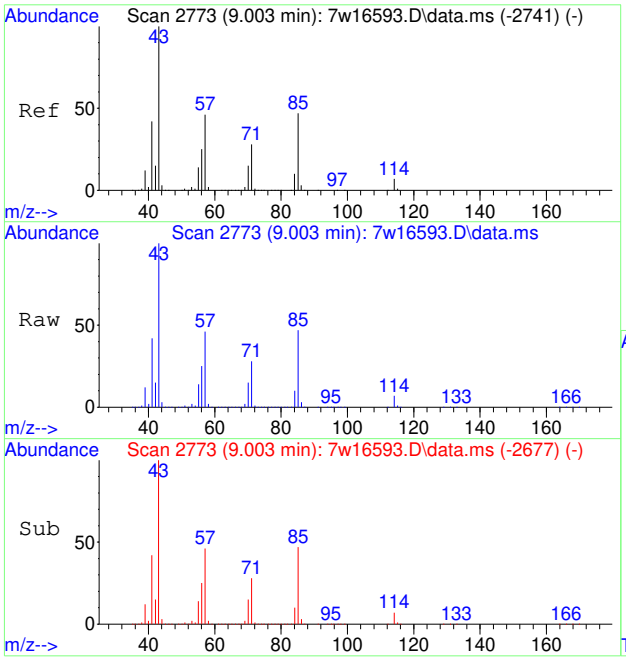


#74
1,2-DIBROMOETHANE
Concen: 56.46 PPBV
RT: 8.010 min Scan# 2464
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:107 Resp: 1223967

Ion	Ratio	Lower	Upper
107	100		
109	94.2	66.1	122.8
188	3.6	2.5	4.6

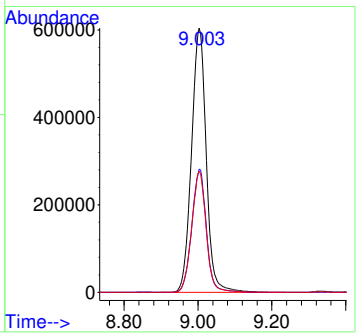


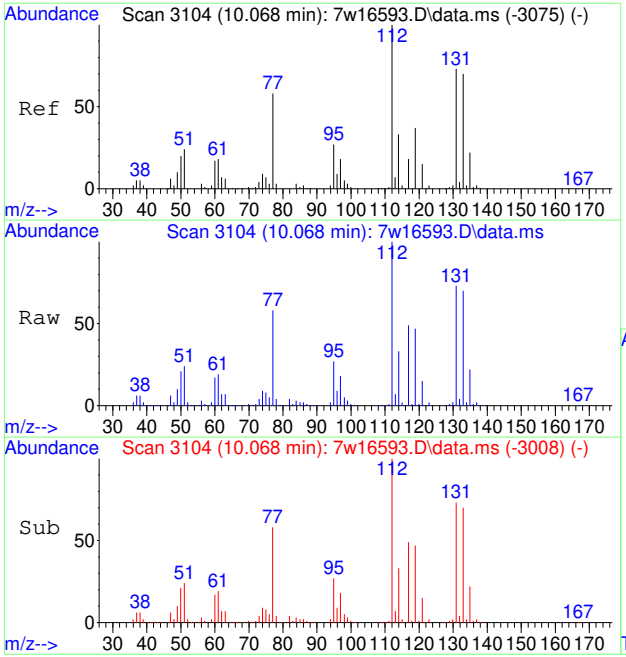


#75
OCTANE
Concen: 52.30 PPBV
RT: 9.003 min Scan# 2773
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1670114

Ion	Ratio	Lower	Upper
43	100		
85	46.2	31.8	59.0
57	45.2	31.4	58.2

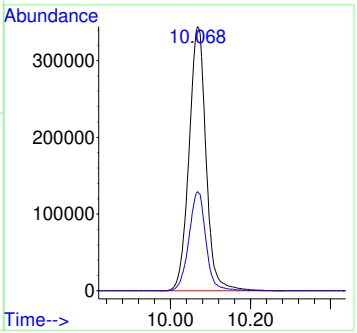


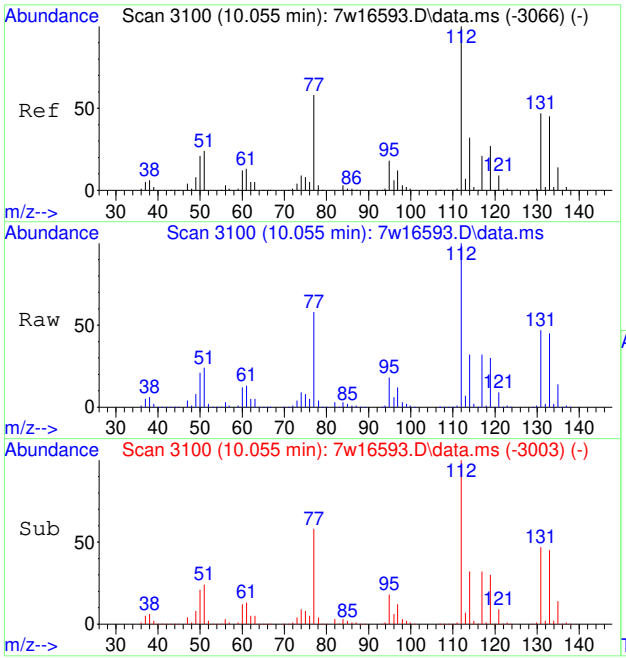


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 57.95 PPBV
RT: 10.068 min Scan# 3104
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:131 Resp: 1014574

Ion	Ratio	Lower	Upper
131	100		
95	37.6	26.5	49.1

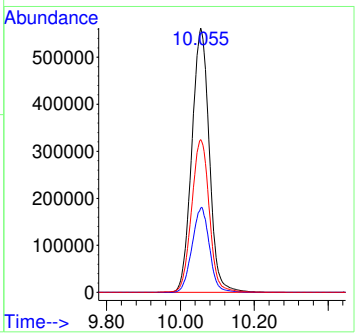


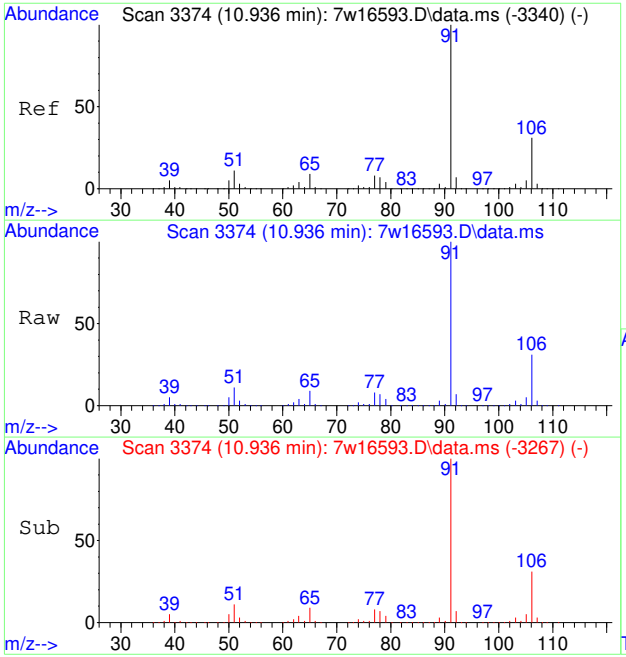


#78
CHLOROBENZENE
Concen: 54.82 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:112 Resp: 1847440

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.5	41.7
77	58.8	42.1	78.1

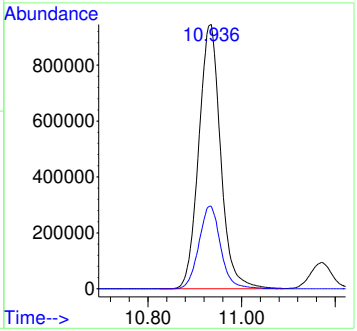


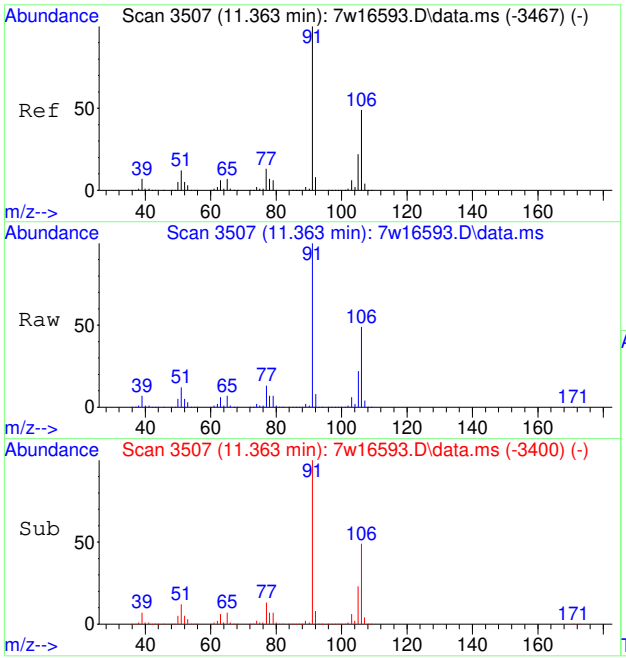


#79
ETHYLBENZENE
Concen: 55.49 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 3062670

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

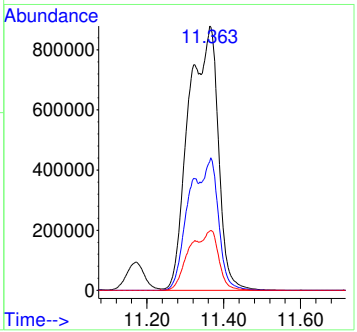


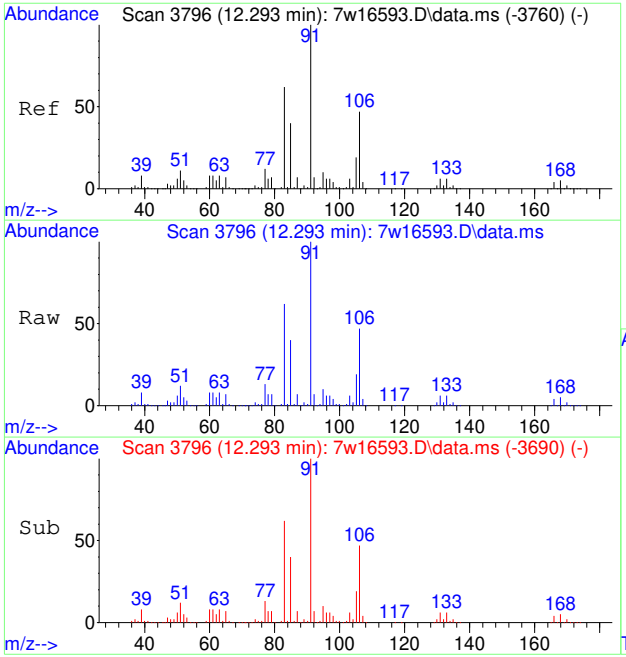


#80
M,P-XYLENE
Concen: 104.27 PPBV
RT: 11.363 min Scan# 3507
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 4688509

Ion	Ratio	Lower	Upper
91	100		
106	27.6	0.0	56.1
105	22.5	0.0	42.1

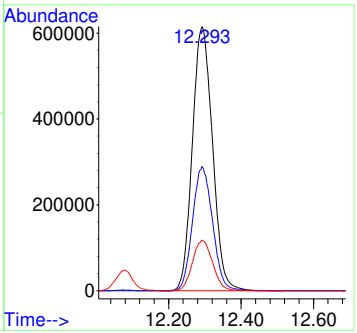


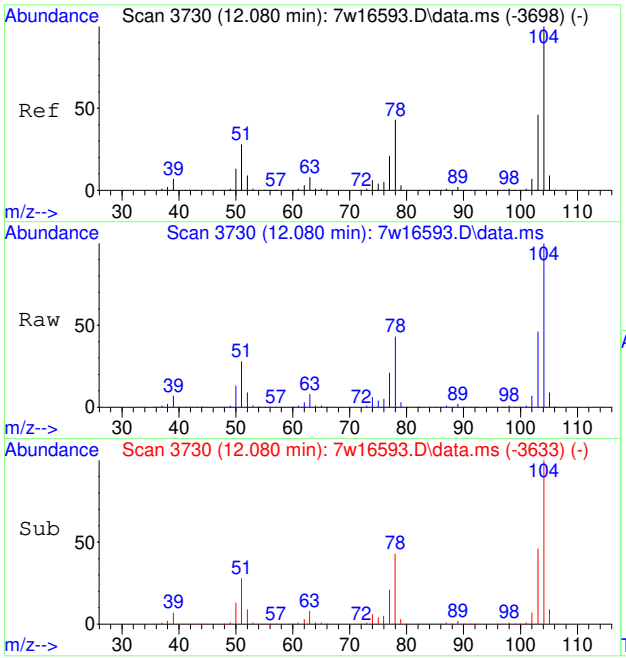


#81
O-XYLENE
Concen: 54.76 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2383048

Ion	Ratio	Lower	Upper
91	100		
106	47.0	31.8	59.0
105	19.2	13.0	24.2

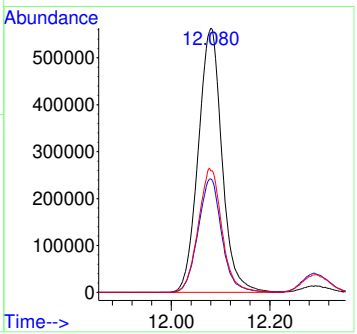


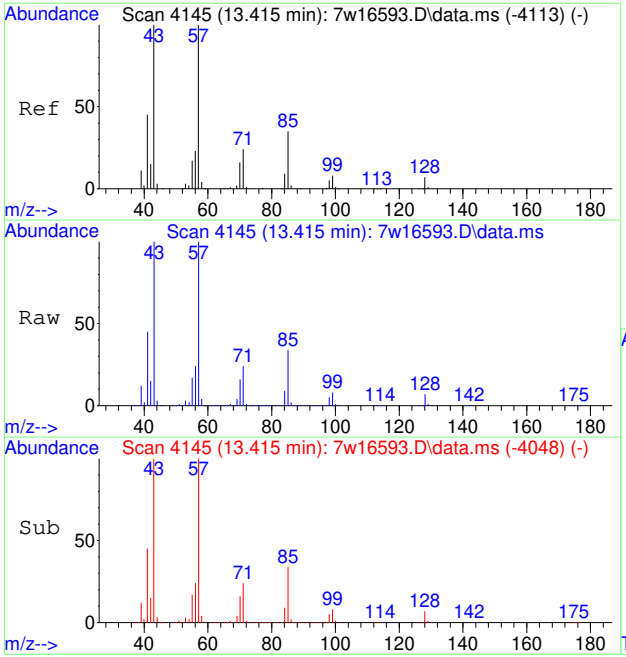


#82
STYRENE
Concen: 58.71 PPBV
RT: 12.080 min Scan# 3730
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:104 Resp: 1884473

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

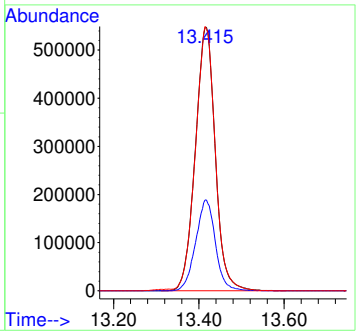


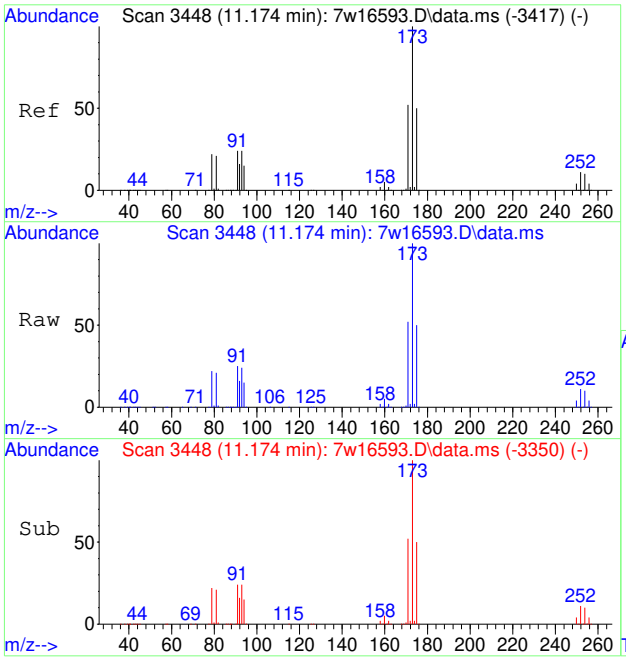


#83
NONANE
Concen: 52.08 PPBV
RT: 13.415 min Scan# 4145
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1775546

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.5	69.2	128.6

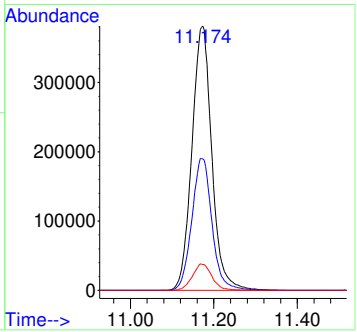


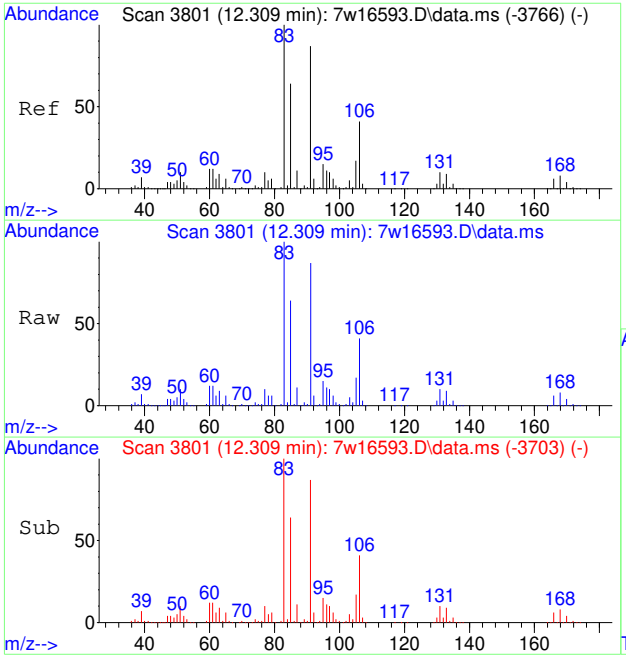


#84
BROMOFORM
Concen: 63.02 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:173 Resp: 1265430

Ion	Ratio	Lower	Upper
173	100		
175	50.6	35.1	65.1
254	10.0	6.7	12.5

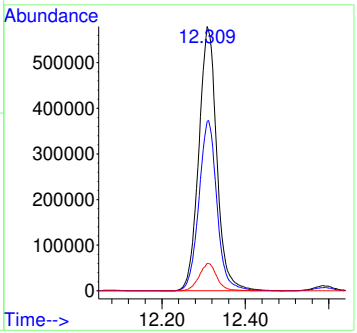


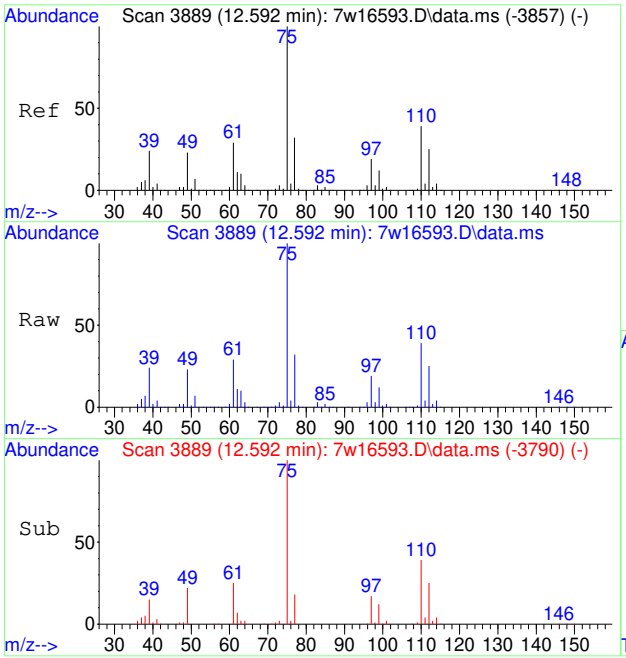


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 55.83 PPBV
RT: 12.309 min Scan# 3801
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1733579

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.3	7.3	13.5

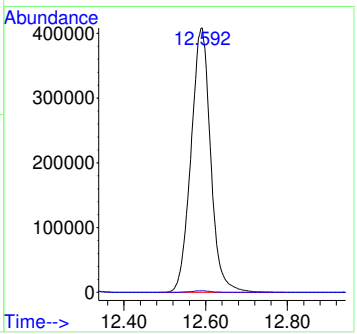


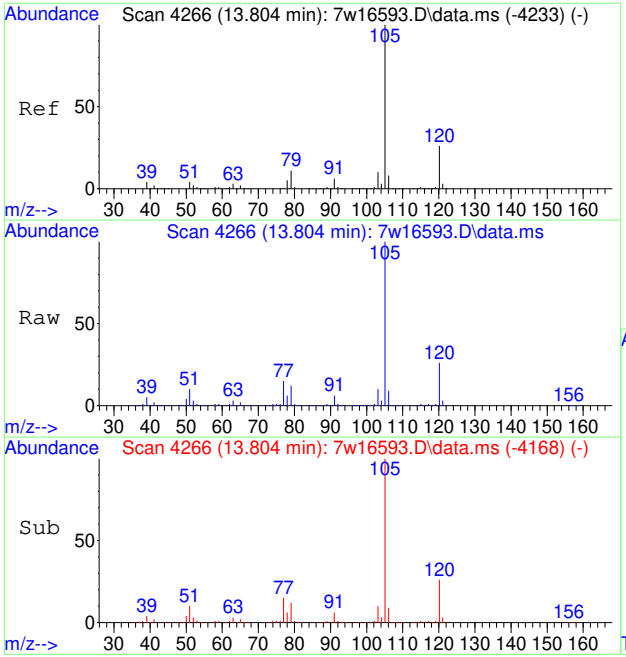


#86
1,2,3-TRICHLOROPROPANE
Concen: 55.93 PPBV
RT: 12.592 min Scan# 3889
Delta R.T. 0.019 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1360230

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

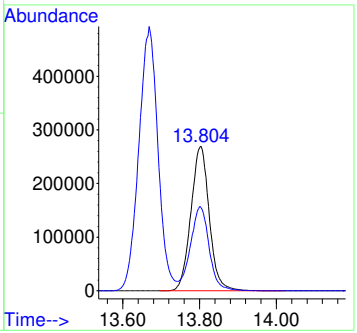


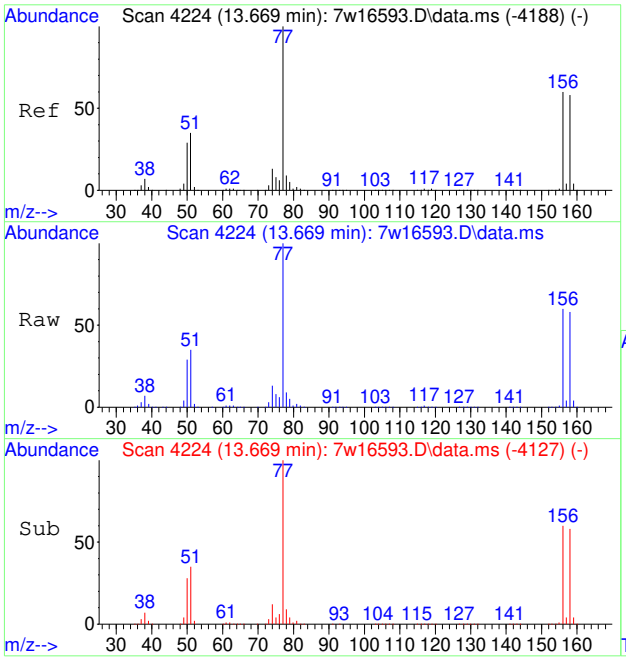


#88
ISOPROPYLBENZENE
Concen: 54.23 PPBV
RT: 13.804 min Scan# 4266
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 894931

Ion	Ratio	Lower	Upper
120	100		
77	59.5	42.5	78.9

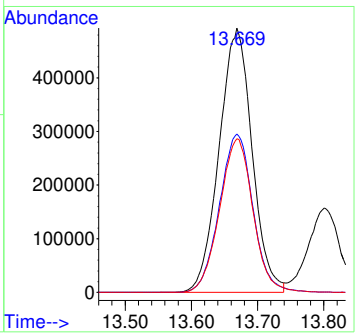


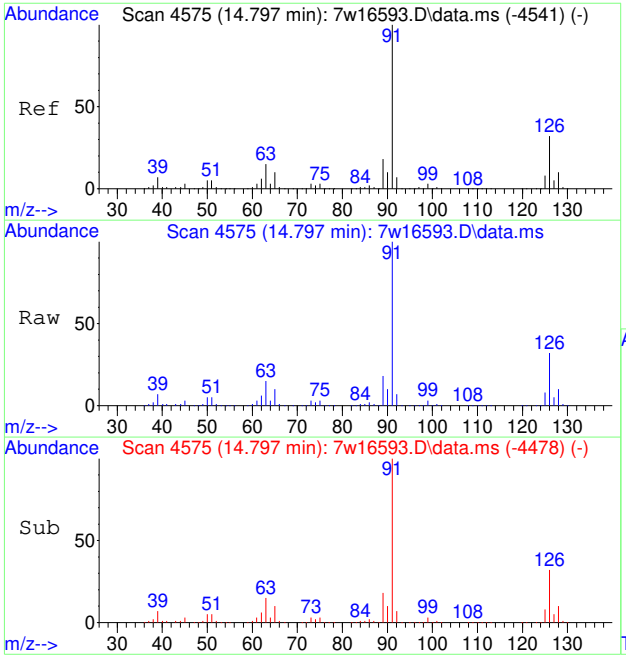


#89
BROMOBENZENE
Concen: 53.56 PPBV
RT: 13.669 min Scan# 4224
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 77 Resp: 1702334

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	59.1	40.9	76.0

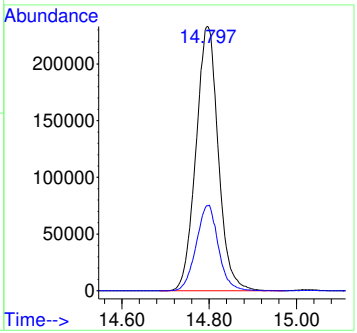


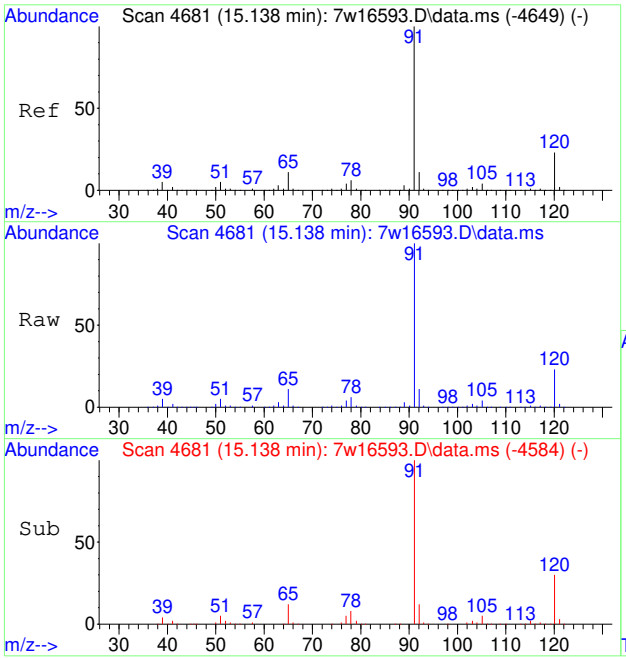


#90
2-CHLOROTOLUENE
Concen: 54.34 PPBV
RT: 14.797 min Scan# 4575
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:126 Resp: 829710

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

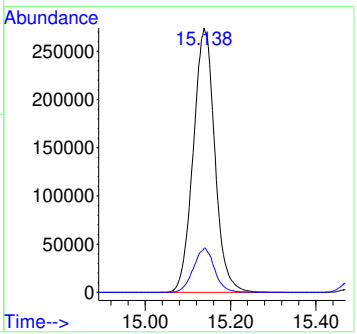


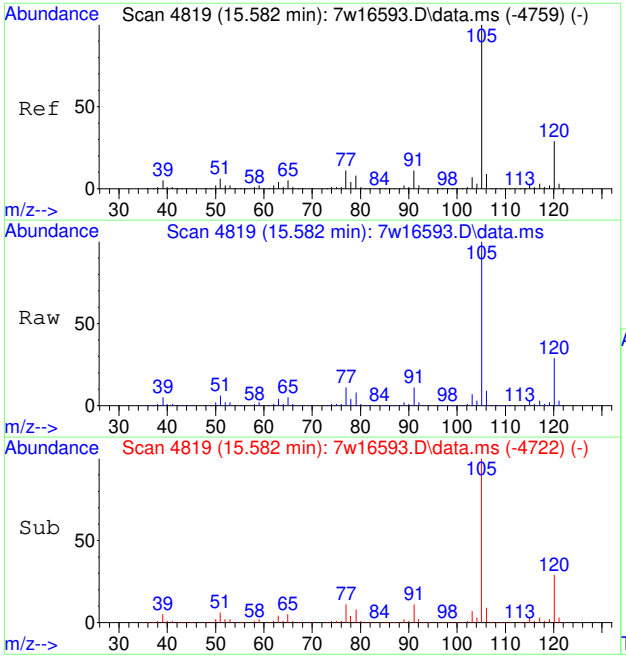


#91
N-PROPYLBENZENE
Concen: 55.42 PPBV
RT: 15.138 min Scan# 4681
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 961239

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

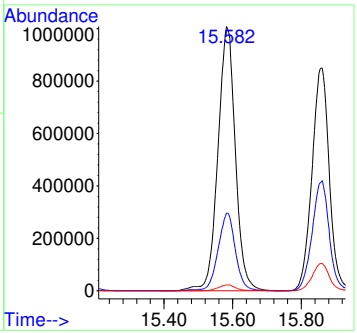


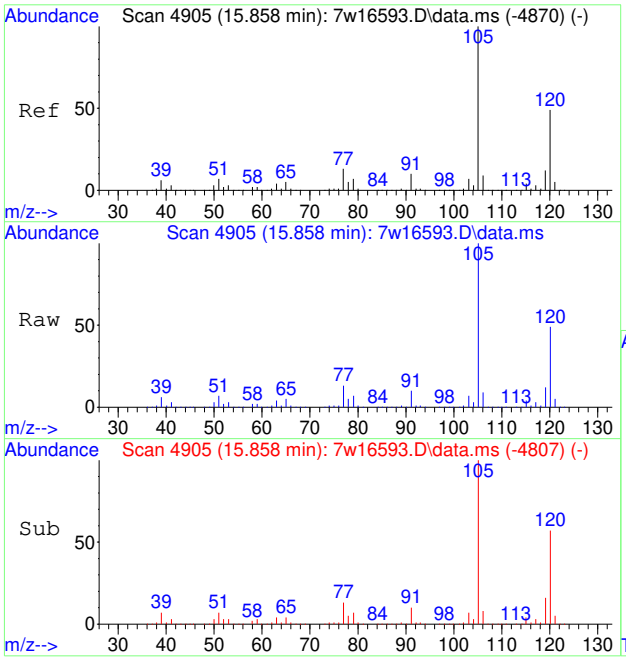


#92
4-ETHYLTOLUENE
Concen: 55.47 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3566781

Ion	Ratio	Lower	Upper
105	100		
120	29.3	20.7	38.5
119	2.2	1.6	3.0

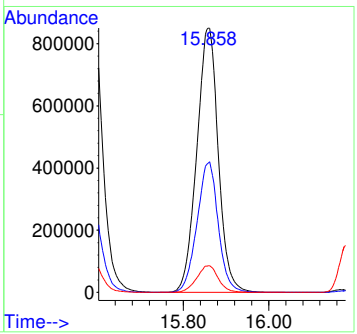


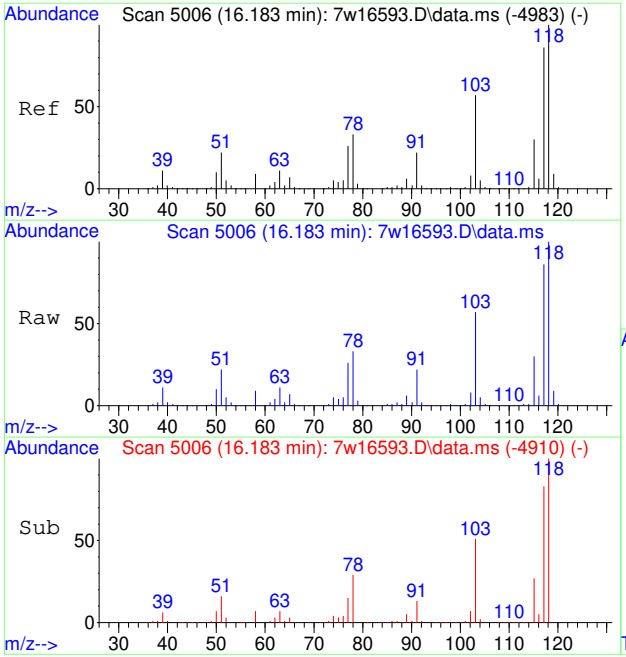


#93
1,3,5-TRIMETHYLBENZENE
Concen: 55.47 PPBV
RT: 15.858 min Scan# 4905
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2975442

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

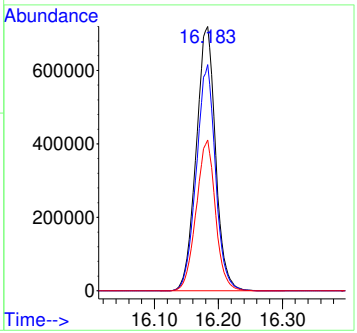


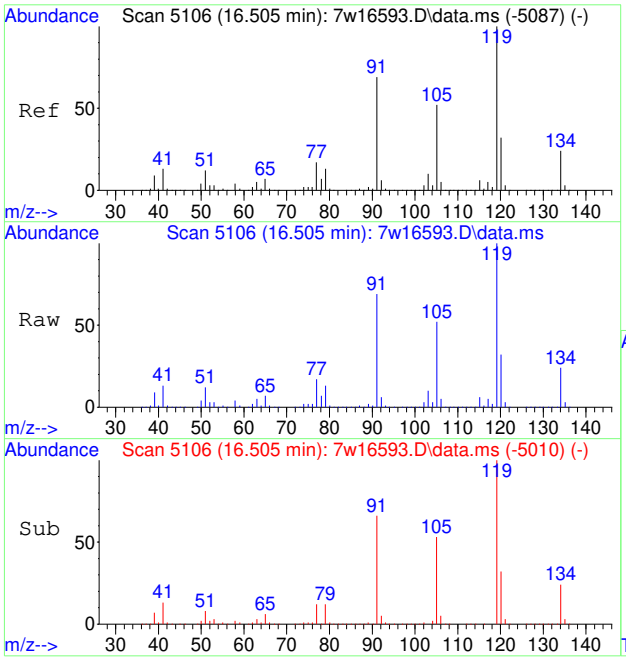


#94
ALPHA-METHYLSTYRENE
Concen: 57.73 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:118 Resp: 1513322

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.8	40.3	74.9

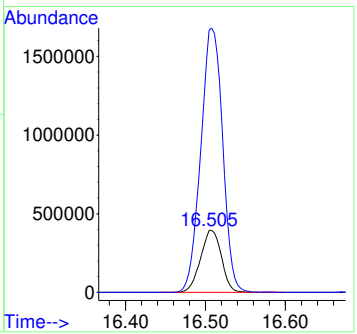


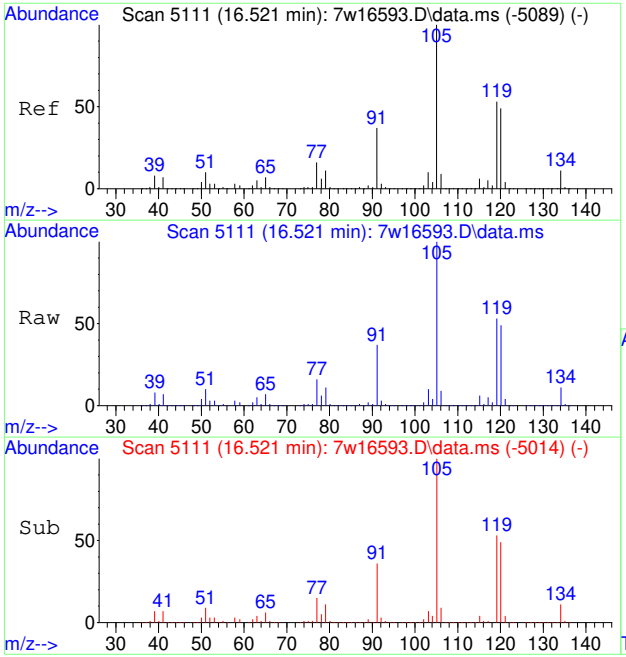


#95
TERT-BUTYLBENZENE
Concen: 54.19 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 714841

Ion	Ratio	Lower	Upper
134	100		
119	446.9	311.3	578.1

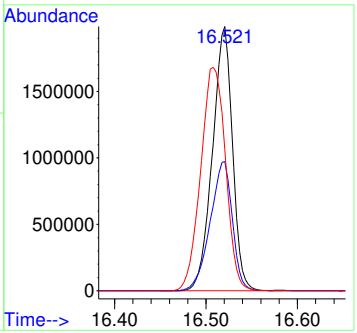


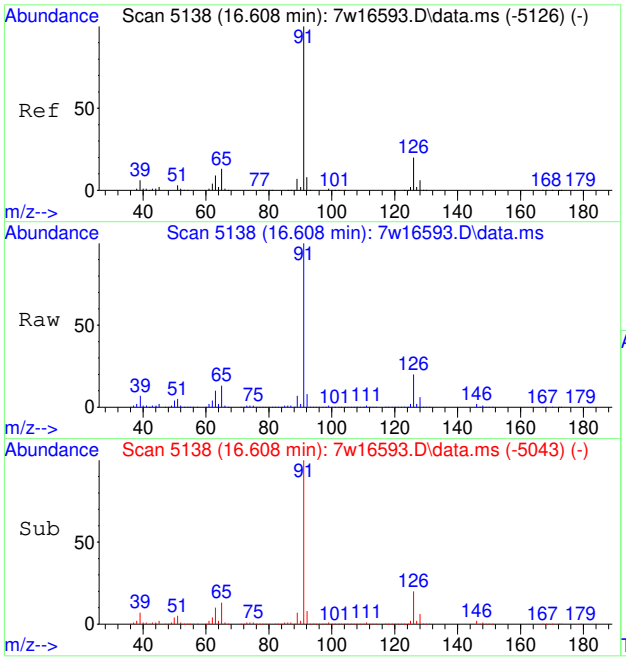


#96
1,2,4-TRIMETHYLBENZENE
Concen: 57.25 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3037196

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

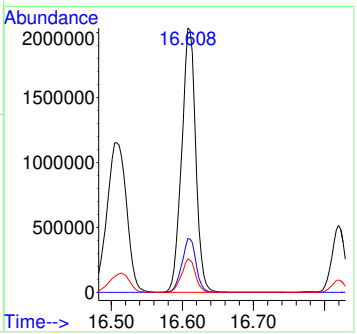


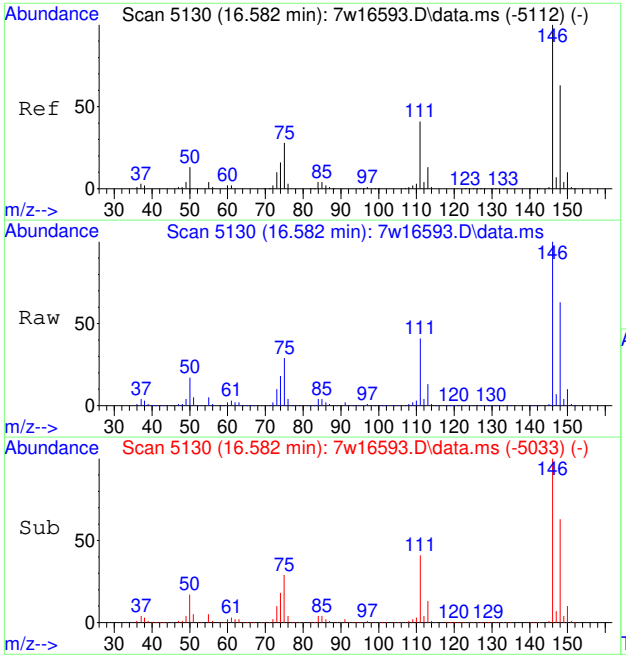


#97
BENZYL CHLORIDE
Concen: 68.69 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2795409

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.6	9.2	17.0

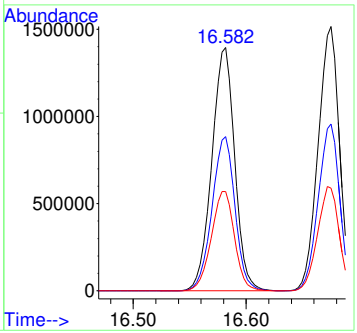


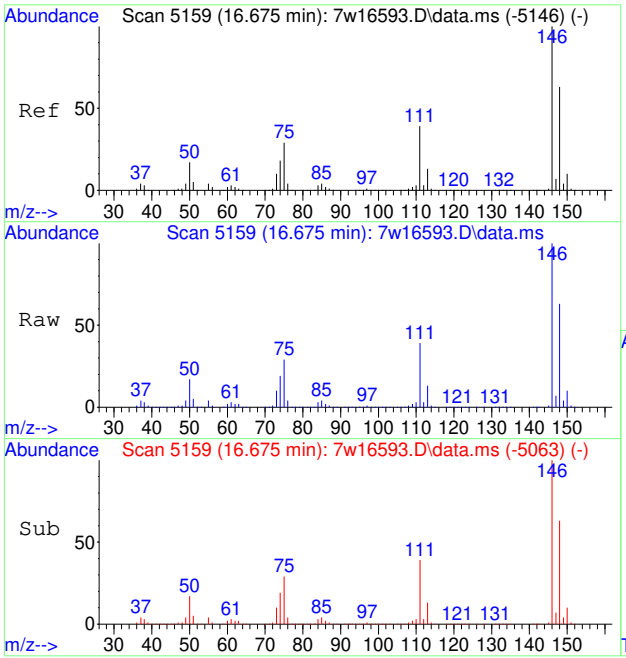


#98
M-DICHLOROBENZENE
Concen: 53.40 PPBV
RT: 16.582 min Scan# 5130
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1958237

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.6	82.8
111	41.4	29.3	54.3

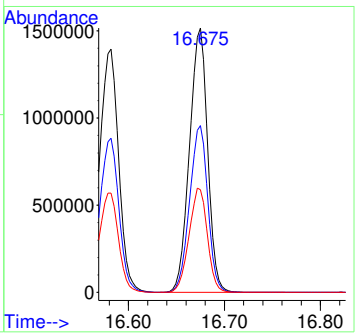


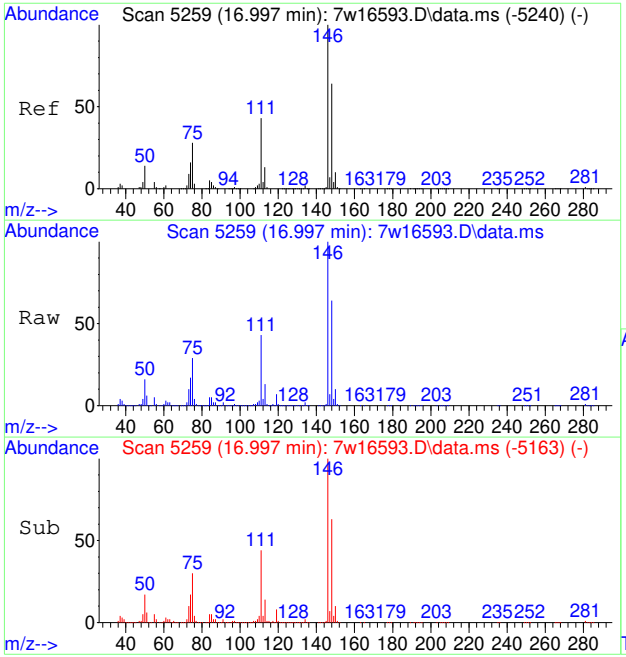


#99
P-DICHLOROBENZENE
Concen: 55.15 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1991134

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.2	82.2
111	39.9	28.0	52.0

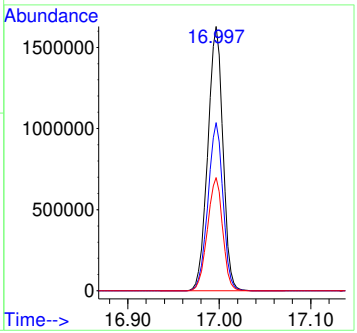


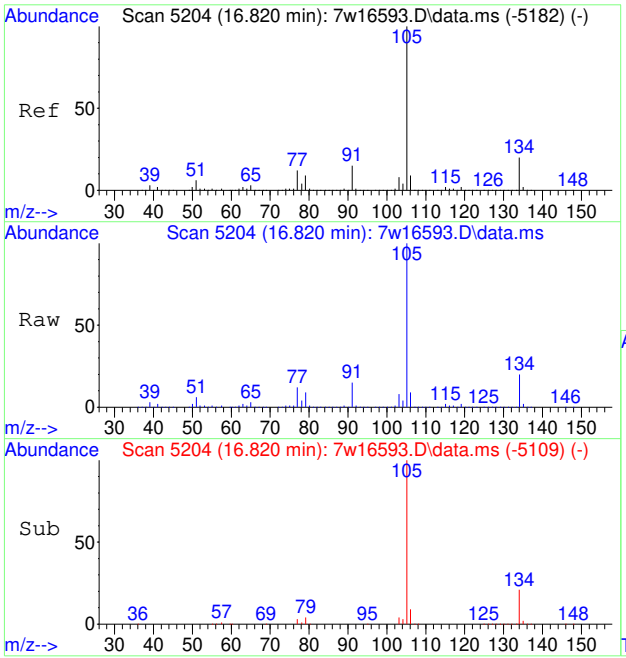


#100
O-DICHLOROBENZENE
Concen: 55.08 PPBV
RT: 16.997 min Scan# 5259
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1868131

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

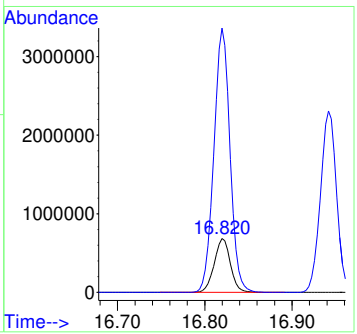


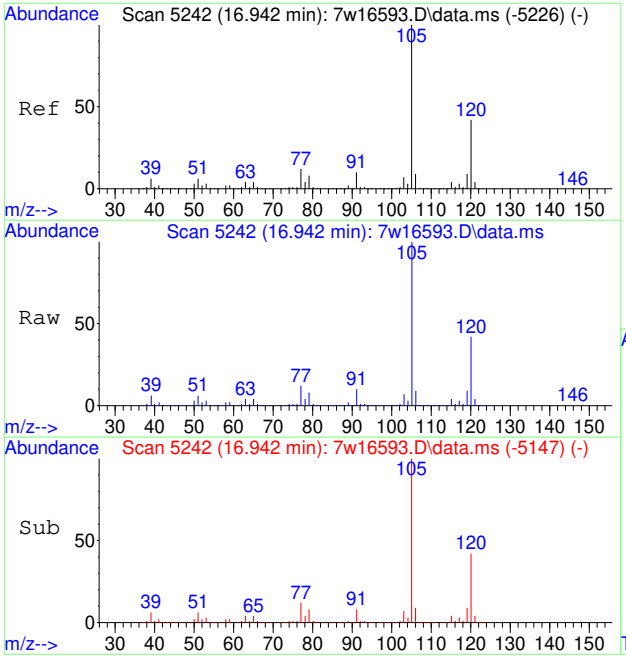


#101
SEC-BUTYLBENZENE
Concen: 56.32 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 879244

Ion	Ratio	Lower	Upper
134	100		
105	490.4	344.8	640.3

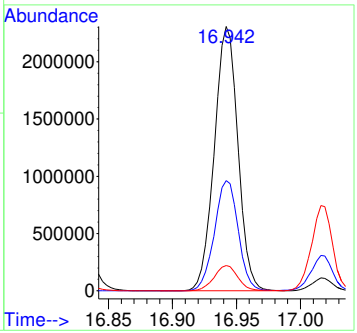


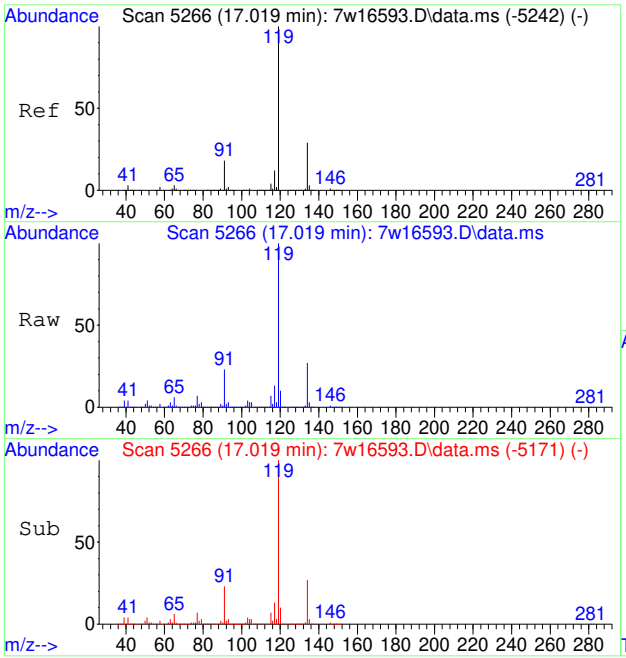


#102
1,2,3-TRIMETHYLBENZENE
Concen: 55.49 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2956799

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	9.7	7.0	13.0

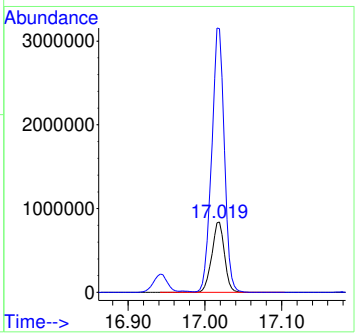


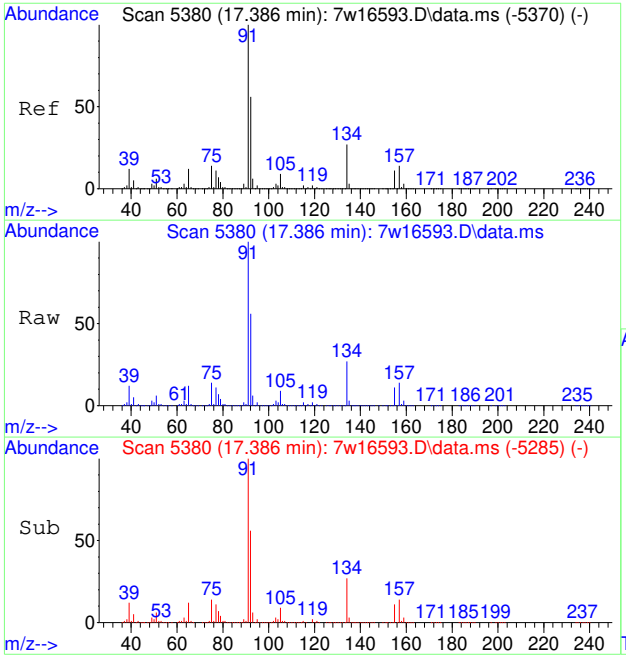


#103
P-ISOPROPYLTOLUENE
Concen: 55.64 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 964439

Ion	Ratio	Lower	Upper
134	100		
119	374.7	261.4	485.4

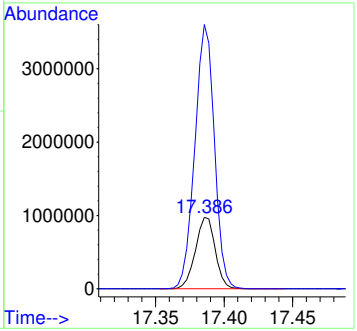


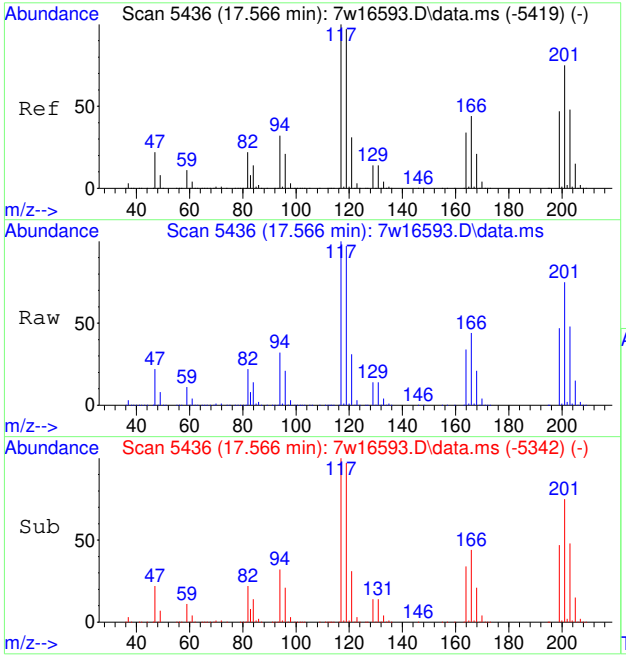


#104
N-BUTYLBENZENE
Concen: 59.74 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 974353

Ion	Ratio	Lower	Upper
134	100		
91	366.6	261.0	484.8

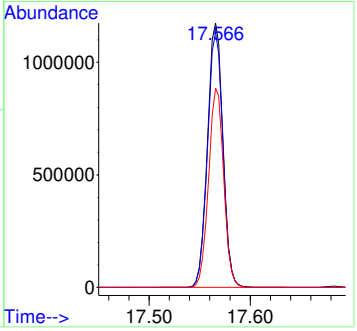


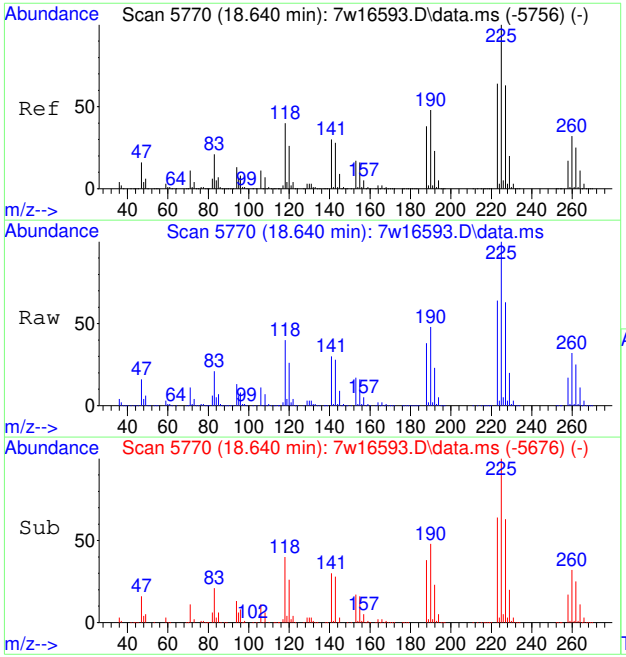


#105
HEXACHLOROETHANE
Concen: 62.73 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1246101

Ion	Ratio	Lower	Upper
117	100		
119	95.9	67.7	125.7
201	73.7	49.8	92.6

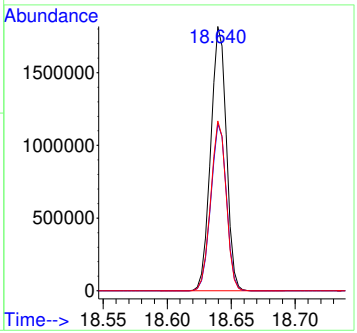


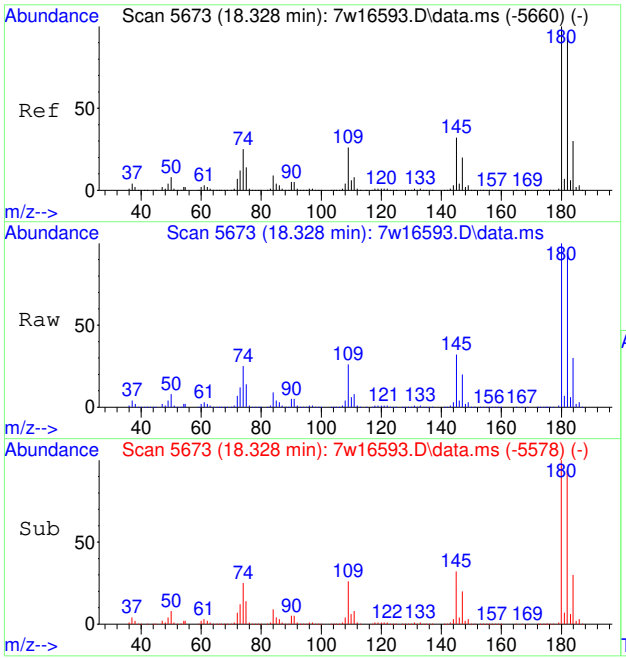


#106
HEXACHLOROBUTADIENE
Concen: 64.95 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:225 Resp: 1541106

Ion	Ratio	Lower	Upper
225	100		
227	63.0	44.6	82.8
223	63.6	44.6	82.8

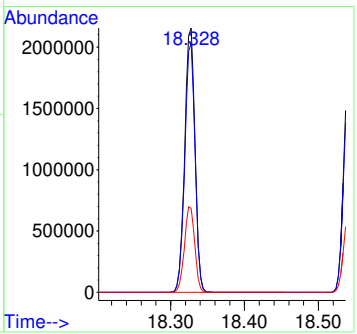


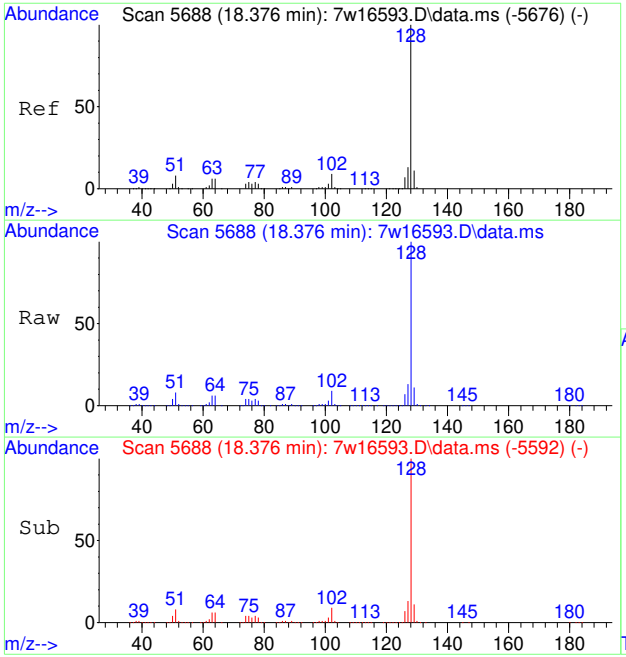


#107
1,2,4-TRICHLOROBENZENE
Concen: 76.81 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:180 Resp: 2093092

Ion	Ratio	Lower	Upper
180	100		
182	94.1	66.6	123.6
145	32.6	22.5	41.9

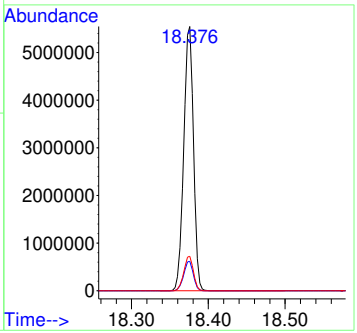


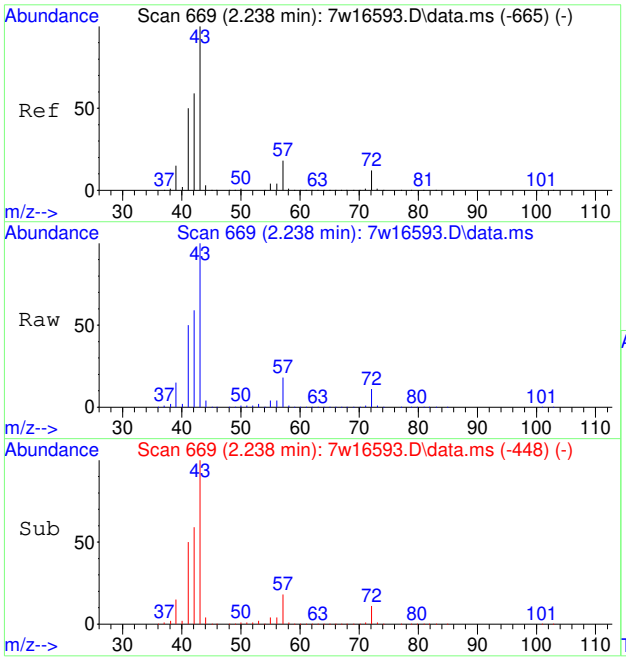


#108
NAPHTHALENE
Concen: 81.19 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:128 Resp: 4901356

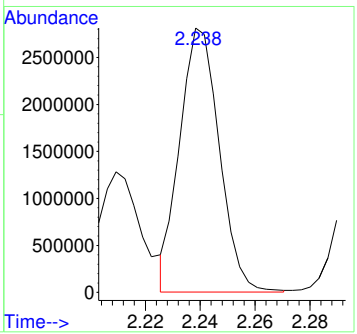
Ion	Ratio	Lower	Upper
128	100		
129	11.1	7.5	13.9
127	12.9	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 45.25 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:TIC Resp: 2811423



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16593.D
Injection Time: 08/07/25 15:15

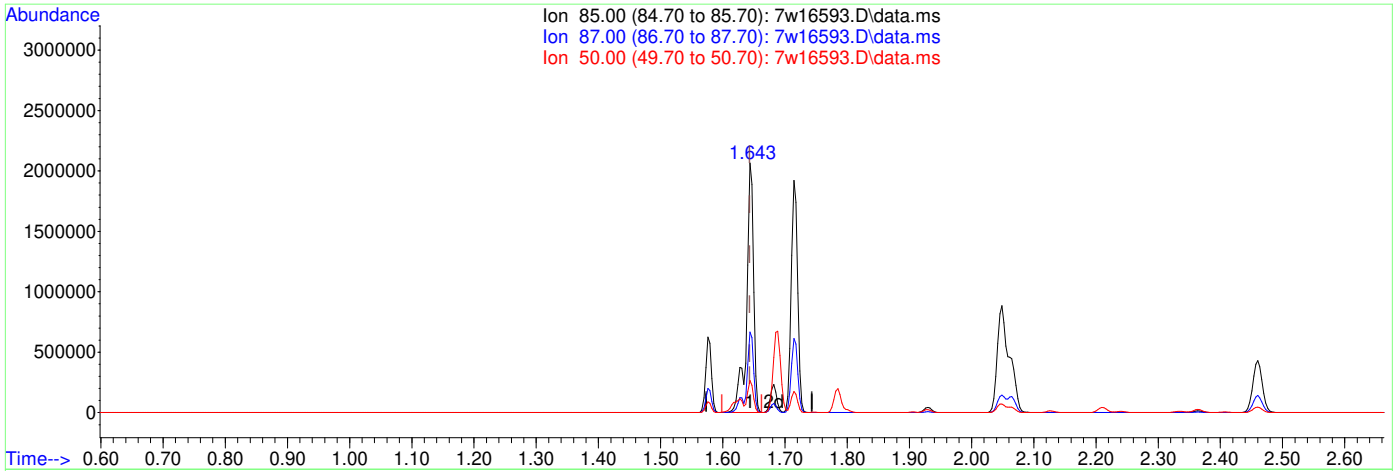
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

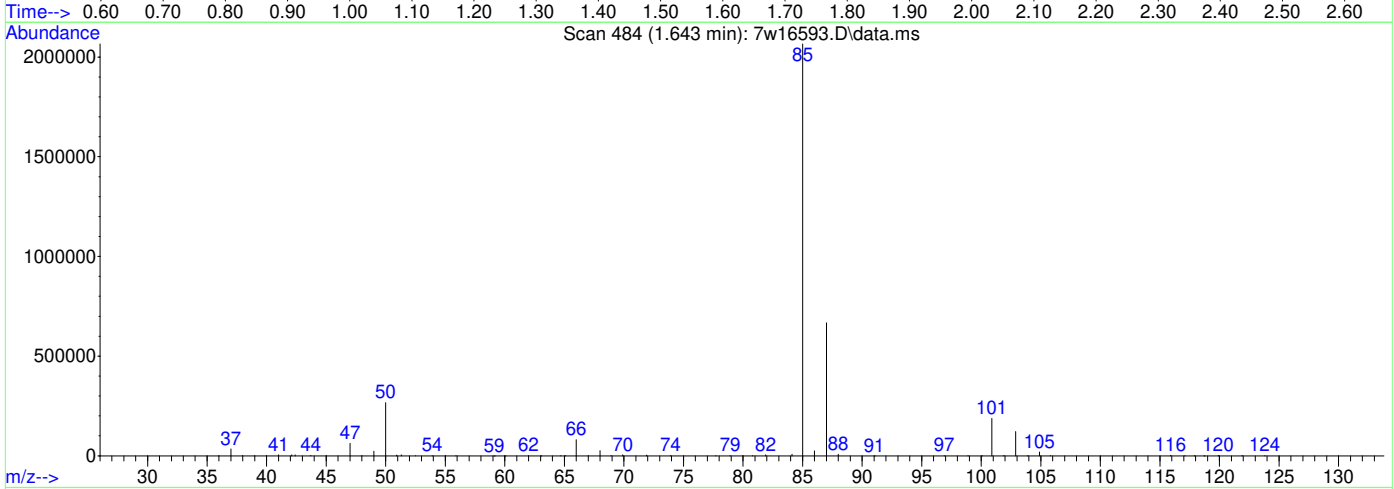
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 53.32PPBV

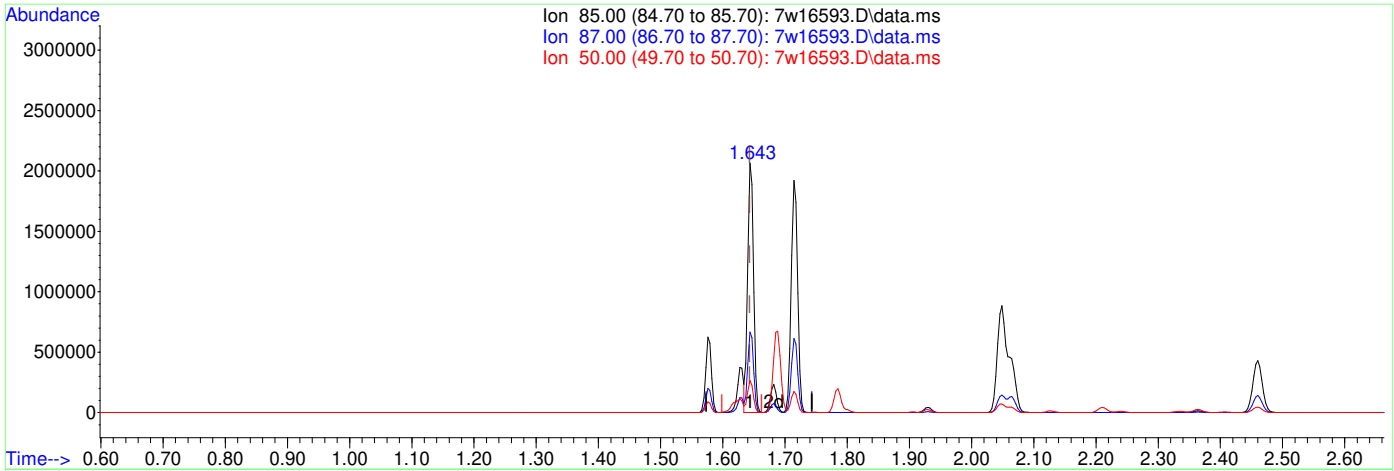
response 1605785

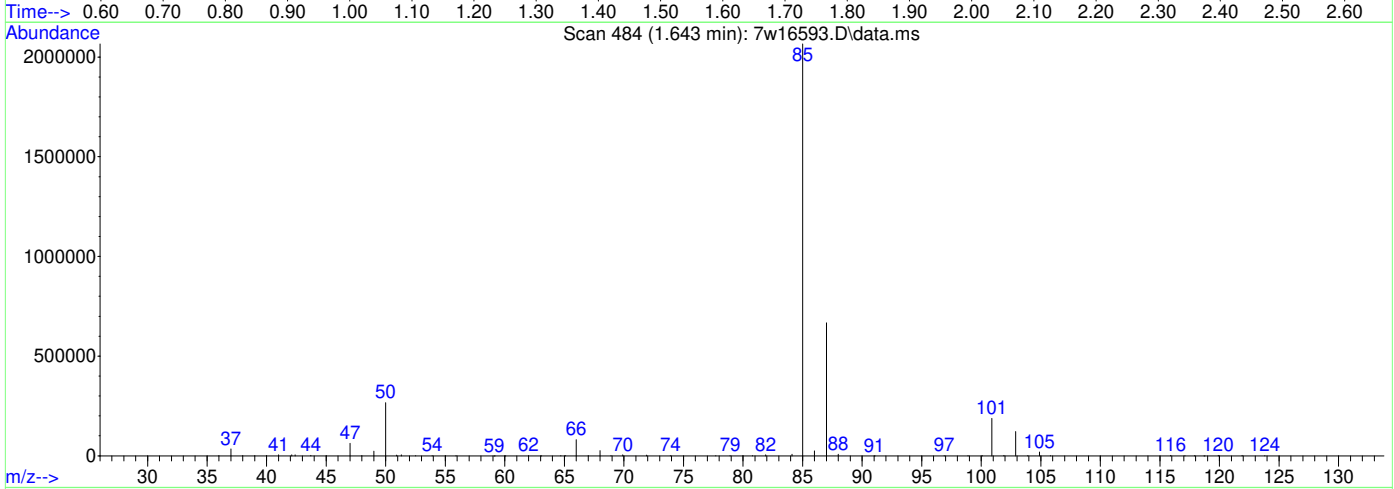
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.49
50.00	19.30	18.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 44.53PPBV m

response 1341049

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.90
50.00	19.30	22.31
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	106909	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	531012	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	486982	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	106911	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.321	95	402638	10.30	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	416591	62.18	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	181942	62.53	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.631	116	917974	65.92	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.643	85	1586079m	52.05	PPBV		
7) PROPYLENE	1.627	41	519681	59.64	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1374618	59.89	PPBV		99
9) FREON 114	1.714	85	1619416	61.25	PPBV		99
10) CHLOROMETHANE	1.688	52	212421	57.28	PPBV		98
11) VINYL CHLORIDE	1.746	62	763152	58.43	PPBV		99
12) 1,3-BUTADIENE	1.785	54	588014	56.79	PPBV		97
13) N-BUTANE	1.801	43	1009195	57.39	PPBV		99
14) BROMOMETHANE	1.859	94	580953	57.25	PPBV		99
15) CHLOROETHANE	1.904	64	396609	55.81	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	1380281	56.11	PPBV		99
17) ACETONITRILE	1.994	41	581922	47.00	PPBV		99
18) ACROLEIN	2.032	56	334897	57.43	PPBV		100
19) FREON 123	2.049	83	1521669	61.54	PPBV		100
20) FREON 123A	2.065	117	890775	60.73	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1563139	55.76	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1360413	57.05	PPBV		99
23) ACETONE	2.071	58	370968	56.95	PPBV		93
24) PENTANE	2.238	42	709359	54.82	PPBV		99
25) IODOMETHANE	2.299	142	1579517	61.48	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	645693	60.57	PPBV		94
27) CARBON DISULFIDE	2.463	76	1800975	59.49	PPBV		96
28) ETHANOL	1.933	45	326453	51.26	PPBV		99
29) BROMOETHENE	2.004	106	595538	58.65	PPBV		100
30) ACRYLONITRILE	2.209	52	549118	60.13	PPBV		100
31) METHYLENE CHLORIDE	2.364	84	575223	54.71	PPBV		93
32) 3-CHLOROPROPENE	2.405	76	332976	58.47	PPBV		92
33) FREON 113	2.460	151	974461	60.76	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	2.688	96	674414	57.48	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.338	59	1507671	50.59	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	2004125	60.14	PPBV		99
37) TETRAHYDROFURAN	3.467	72	315623	58.71	PPBV		97
38) HEXANE	3.241	57	1329253	59.12	PPBV		95
39) VINYL ACETATE	2.830	86	203564	64.15	PPBV		90
40) 1,1-DICHLOROETHANE	2.762	63	1312399	57.90	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	360548	58.79	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	737182	60.78	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	381162	59.86	PPBV		90
44) ETHYL ACETATE	3.251	61	270078	63.06	PPBV		85
45) METHYL ACRYLATE	3.238	55	1639035	60.36	PPBV	#	100
46) CHLOROFORM	3.267	83	1396609	59.52	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1562455	62.29	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1503844	61.02	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1592865	62.67	PPBV		100
50) 1,2-DICHLOROETHANE	3.666	62	1086518	59.76	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.132	78	2141182	59.55	PPBV		99
53)	CYCLOHEXANE	4.335	84	968144	62.31	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.589	71	501690	64.89	PPBV		100
55)	TRICHLOROETHENE	5.023	95	961087	57.89	PPBV		99
56)	1,2-DICHLOROPROPANE	4.788	63	899764	61.43	PPBV		99
57)	DIBROMOMETHANE	4.749	174	843168	59.53	PPBV		98
58)	ETHYL ACRYLATE	4.907	55	2081872	63.61	PPBV		100
59)	BROMODICHLOROMETHANE	4.968	83	1618277	60.60	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.113	57	4127531	57.19	PPBV		100
61)	1,4-DIOXANE	5.026	88	483214m	61.98	PPBV		
62)	HEPTANE	5.425	43	1404941	59.03	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	825175	62.06	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.048	58	823387	57.66	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.946	75	1444587	64.81	PPBV		97
66)	TOLUENE	7.138	91	2694962	63.95	PPBV		100
67)	1,3-DICHLOROPROPANE	7.199	76	1360921	64.47	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.618	75	1302469	65.06	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.772	83	774964	64.67	PPBV	#	31
70)	2-HEXANONE	7.704	58	1106138	55.20	PPBV		97
71)	ETHYL METHACRYLATE	7.843	69	1420765	64.21	PPBV		97
72)	TETRACHLOROETHENE	8.855	164	995678	64.80	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.669	129	1671777	69.22	PPBV		100
74)	1,2-DIBROMOETHANE	8.016	107	1452027	66.89	PPBV		100
75)	OCTANE	9.006	43	1982903	62.35	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.071	131	1205798	69.43	PPBV		100
78)	CHLOROBENZENE	10.058	112	2204542	66.36	PPBV		98
79)	ETHYLBENZENE	10.936	91	3650660	67.08	PPBV		100
80)	M,P-XYLENE	11.370	91	5556486	125.67	PPBV		60
81)	O-XYLENE	12.293	91	2839567	66.28	PPBV		98
82)	STYRENE	12.084	104	2245416	70.41	PPBV		99
83)	NONANE	13.421	43	2110946	63.10	PPBV		98
84)	BROMOFORM	11.174	173	1514711	75.01	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	12.315	83	2064226	67.37	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.595	75	1624746	67.69	PPBV		100
88)	ISOPROPYLBENZENE	13.807	120	1073063	65.98	PPBV		97
89)	BROMOBENZENE	13.672	77	2035109	65.06	PPBV		99
90)	2-CHLOROTOLUENE	14.800	126	993540	65.73	PPBV		100
91)	N-PROPYLBENZENE	15.141	120	1146895	66.71	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	4258764	66.89	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.865	105	3539586	66.72	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.183	118	1802748	68.96	PPBV		99
95)	TERT-BUTYLBENZENE	16.508	134	849405	65.41	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3598939	68.48	PPBV		99
97)	BENZYL CHLORIDE	16.611	91	3366305	81.19	PPBV		99
98)	M-DICHLOROBENZENE	16.585	146	2335430	64.53	PPBV		99
99)	P-DICHLOROBENZENE	16.675	146	2373563	66.58	PPBV		100
100)	O-DICHLOROBENZENE	17.000	146	2236033	66.71	PPBV		100
101)	SEC-BUTYLBENZENE	16.823	134	1046061	67.84	PPBV		98
102)	1,2,3-TRIMETHYLBENZENE	16.945	105	3529094	66.96	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.019	134	1145439	66.86	PPBV		100
104)	N-BUTYLBENZENE	17.389	134	1159070	71.38	PPBV		97
105)	HEXACHLOROETHANE	17.566	117	1491790	74.98	PPBV		98
106)	HEXACHLOROBUTADIENE	18.640	225	1851997	78.27	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2599589	93.58	PPBV		99
108)	NAPHTHALENE	18.376	128	6111699	98.65	PPBV		98
110)	TVHC as equiv Pentane	2.238	TIC	3312203	53.84	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

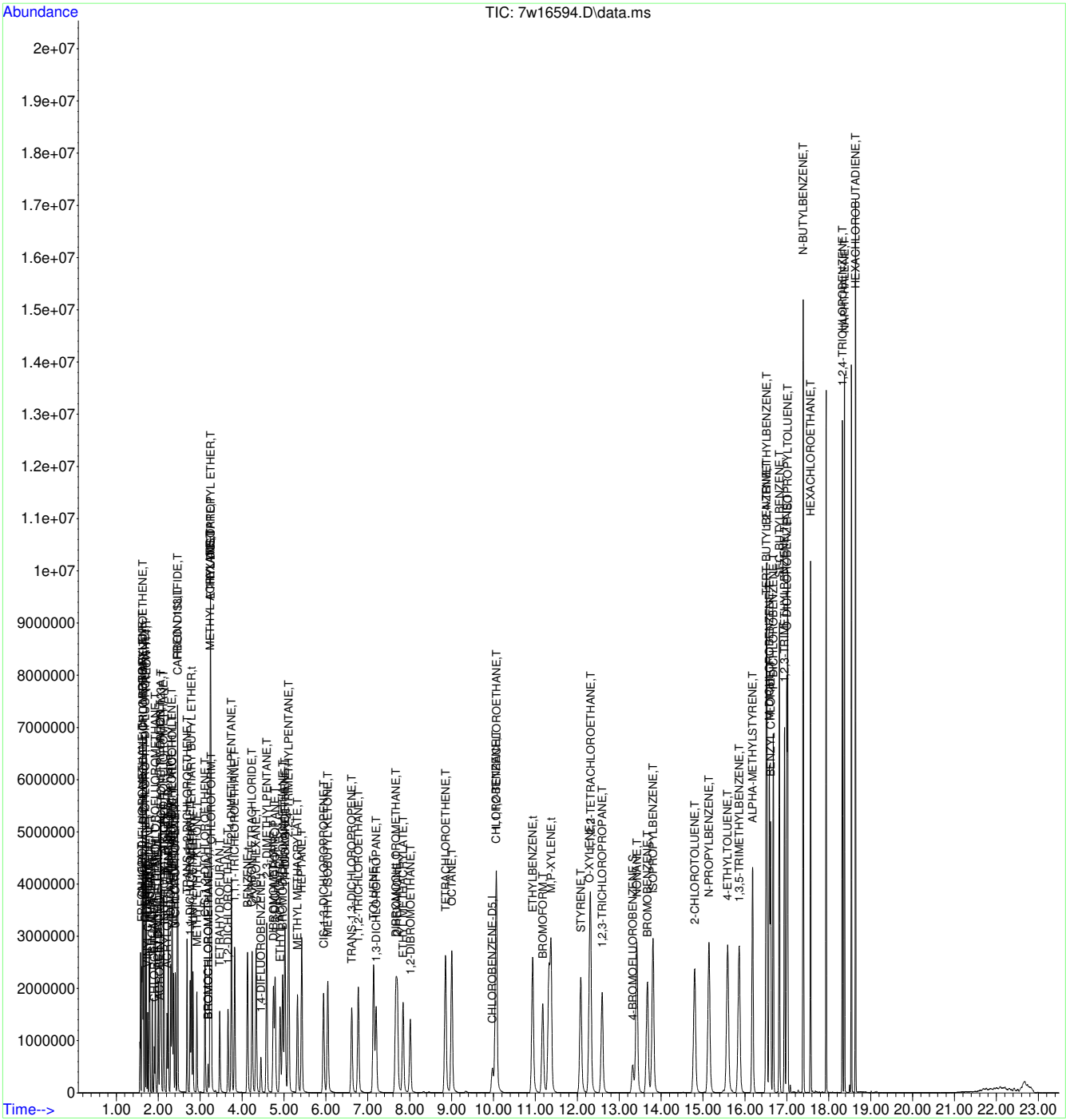
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

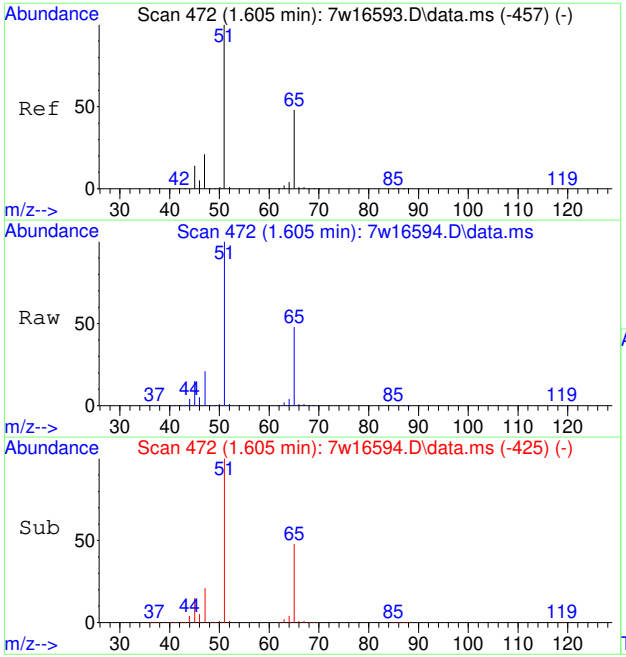
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

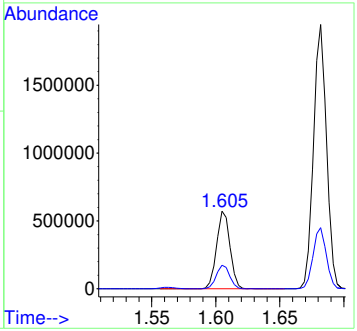


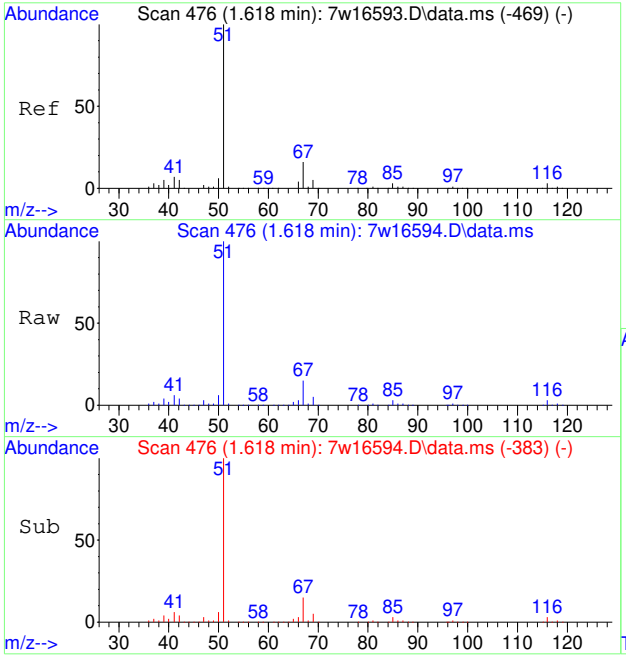


#3
FREON 152A
Concen: 62.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 416591

Ion	Ratio	Lower	Upper
65	100		
45	30.5	23.0	42.8

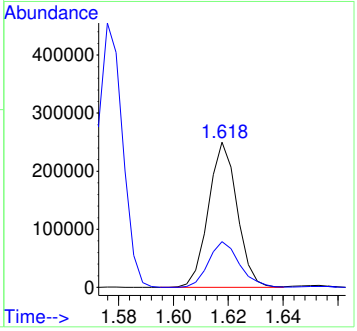


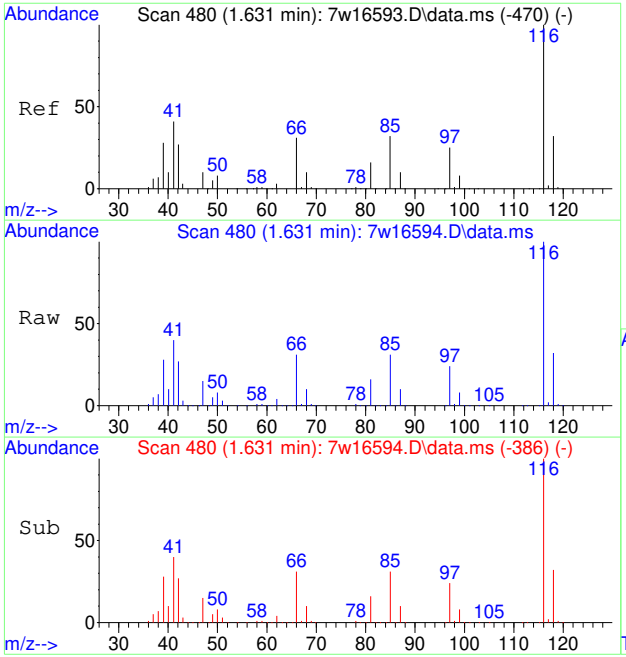


#4
CHLORODIFLUOROMETHANE
Concen: 62.53 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 181942

Ion	Ratio	Lower	Upper
67	100		
69	34.8	25.3	47.1

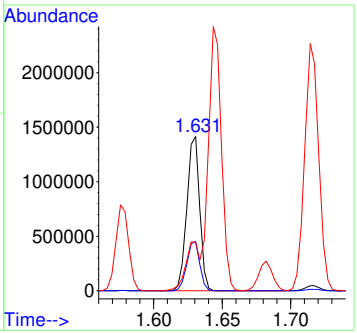


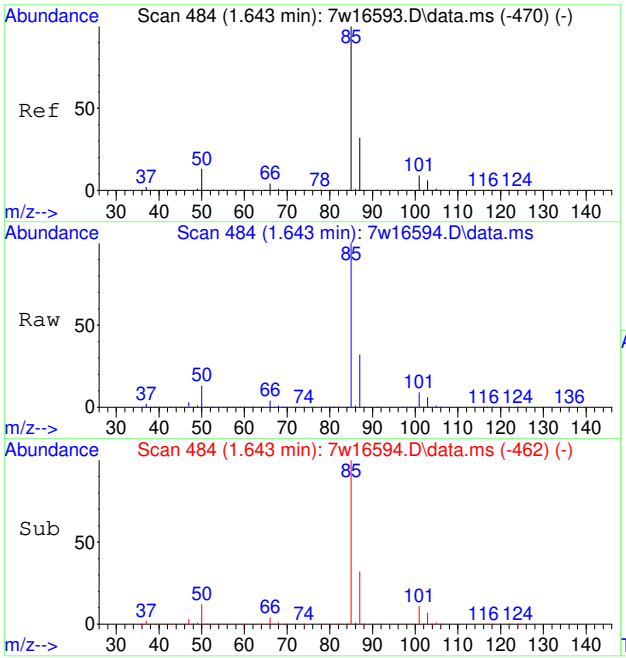


#5
CHLOROTRIFLUOROETHENE
Concen: 65.92 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:116 Resp: 917974

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	207.3	152.4	283.0

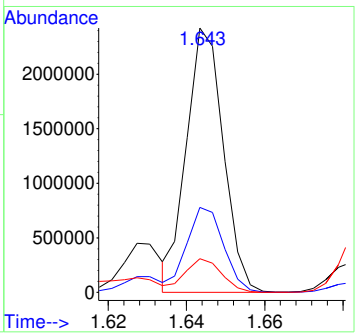


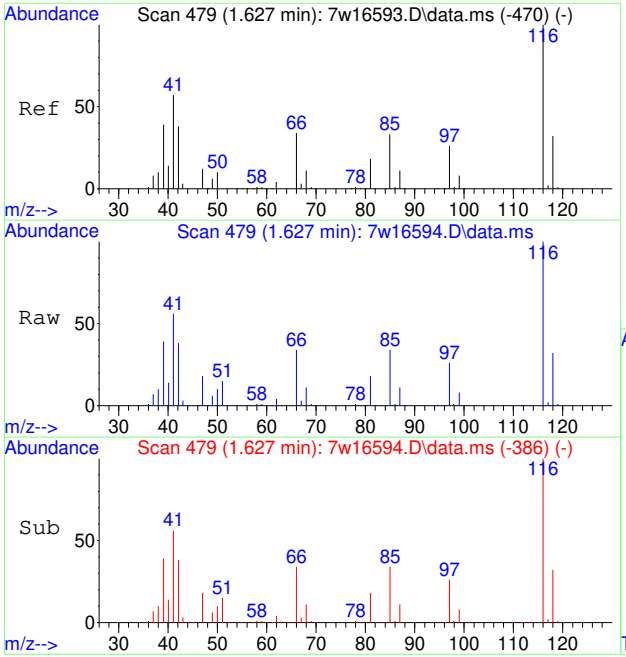


#6
DICHLORODIFLUOROMETHANE
Concen: 52.05 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1586079

Ion	Ratio	Lower	Upper
85	100		
87	38.8	23.0	42.6
50	22.3	13.5	25.1

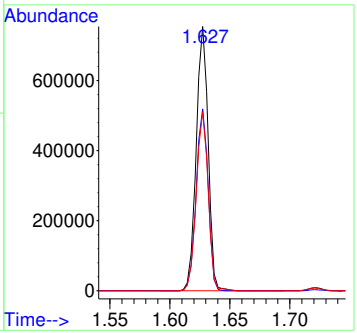


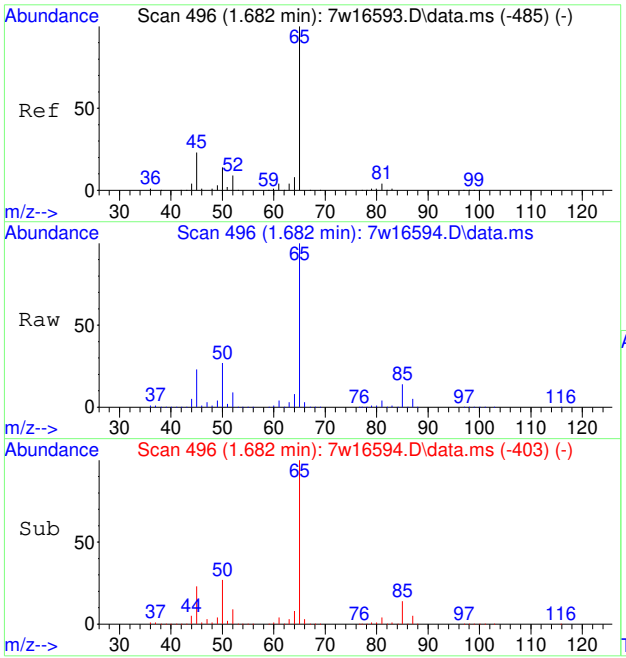


#7
PROPYLENE
Concen: 59.64 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 519681

Ion	Ratio	Lower	Upper
41	100		
39	69.0	50.5	93.7
42	67.4	47.0	87.4

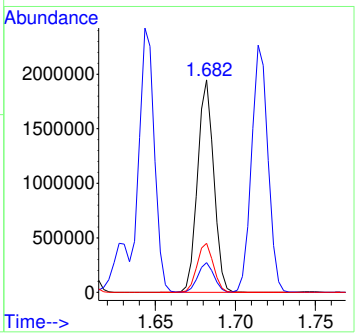


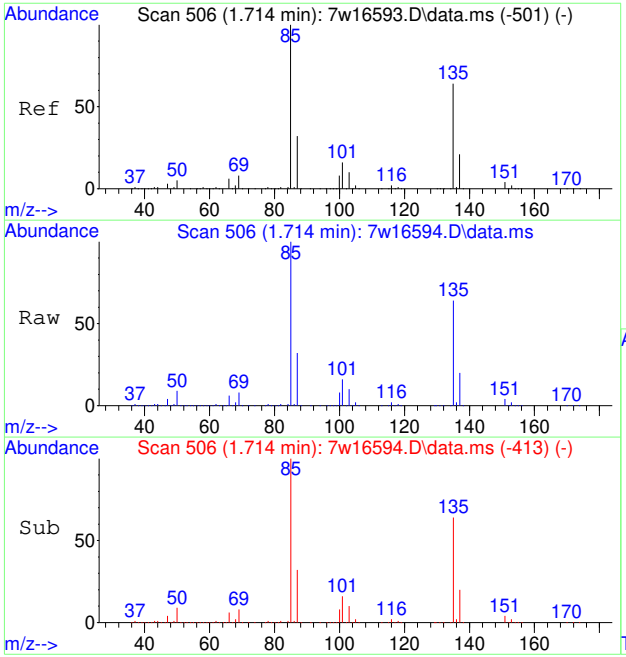


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 59.89 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 1374618

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

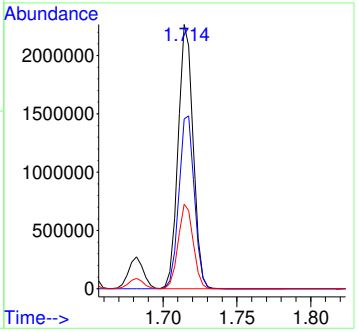


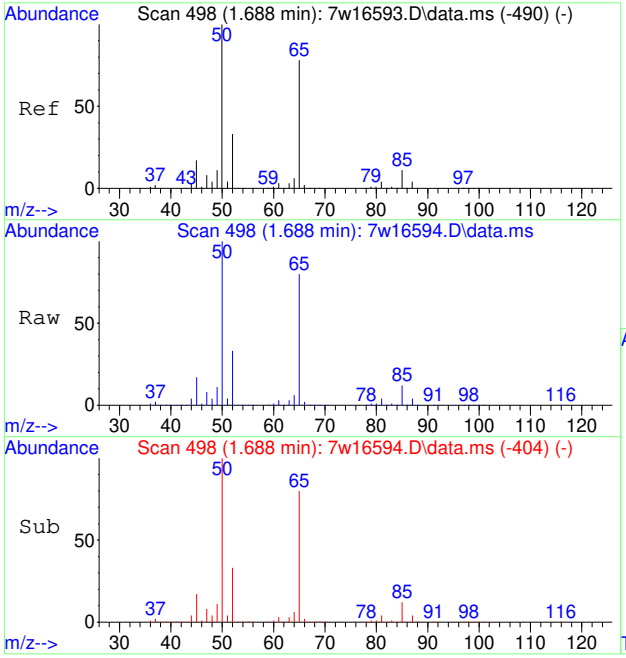


#9
FREON 114
Concen: 61.25 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1619416

Ion	Ratio	Lower	Upper
85	100		
135	67.3	46.1	85.7
87	32.1	22.6	42.0

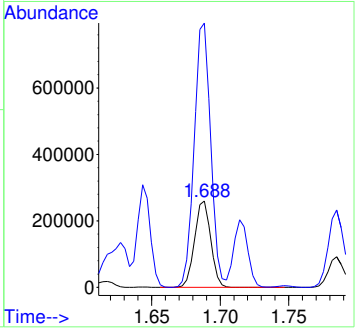


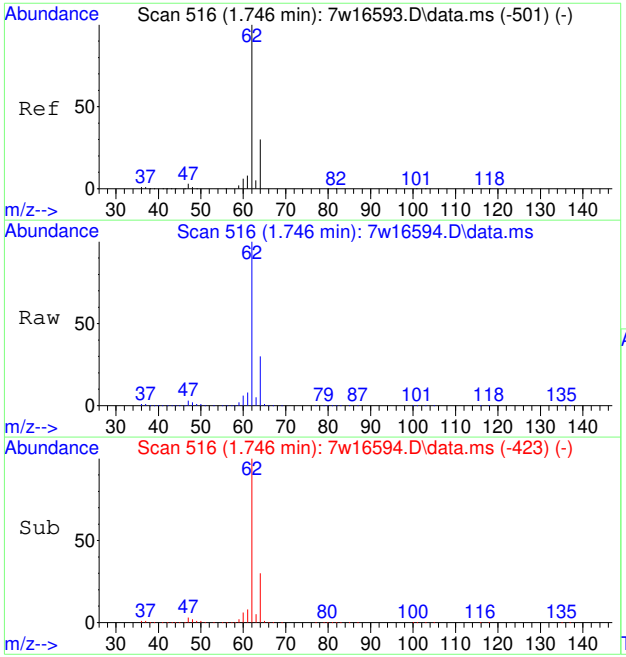


#10
CHLOROMETHANE
Concen: 57.28 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 212421

Ion	Ratio	Lower	Upper
52	100		
50	318.6	225.6	419.0

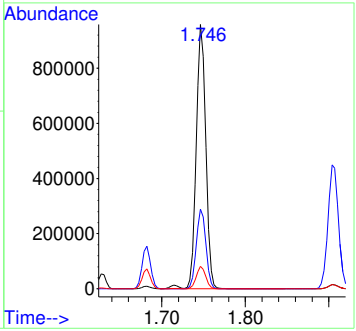


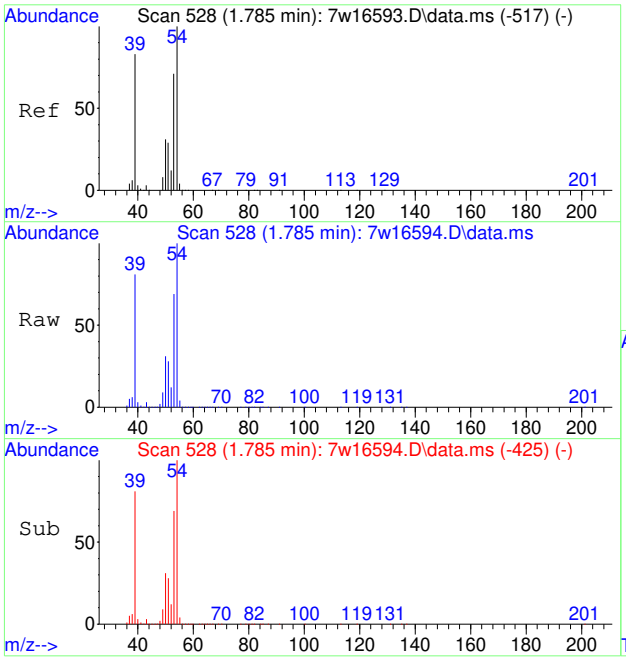


#11
VINYL CHLORIDE
Concen: 58.43 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 763152

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.5	5.7	10.5

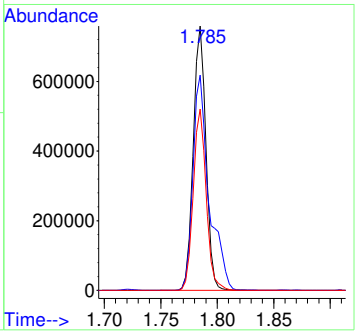


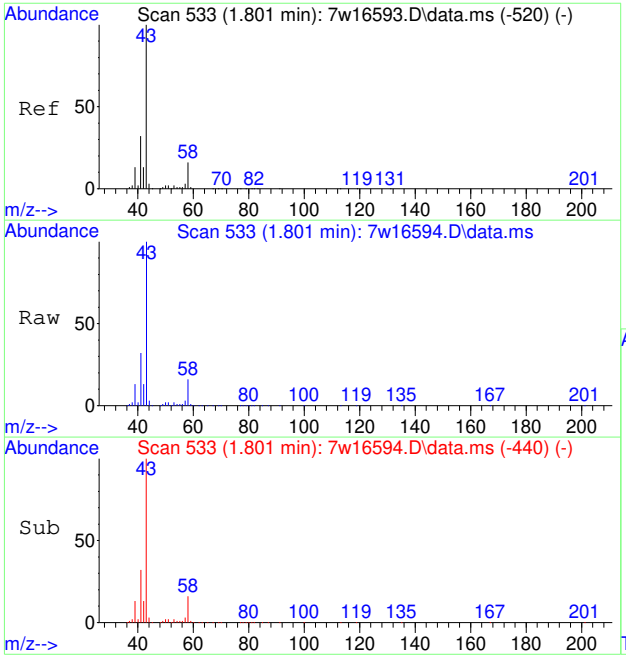


#12
1,3-BUTADIENE
Concen: 56.79 PPBV
RT: 1.785 min Scan# 528
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 54 Resp: 588014

Ion	Ratio	Lower	Upper
54	100		
39	103.8	78.4	138.4
53	70.6	40.9	100.9

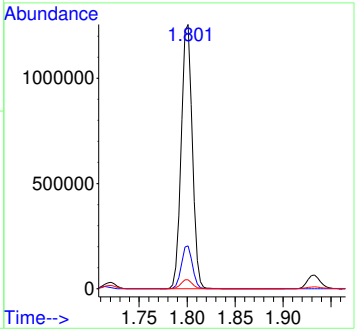


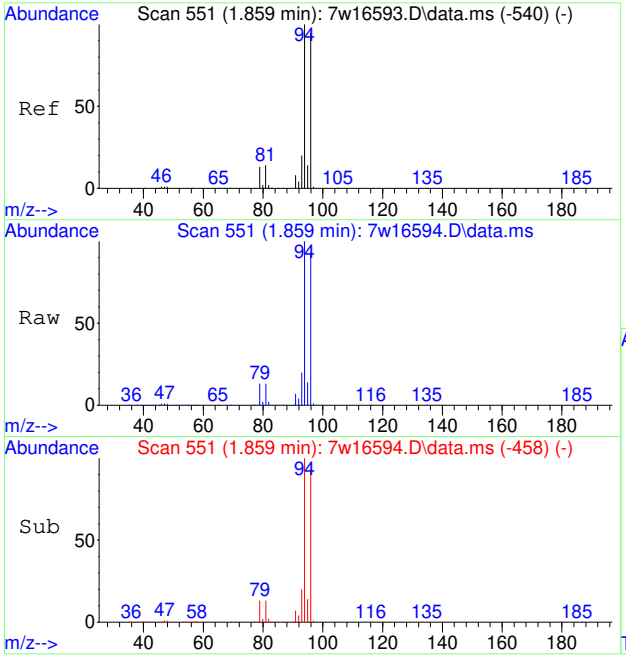


#13
N-BUTANE
Concen: 57.39 PPBV
RT: 1.801 min Scan# 533
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1009195

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.5	2.6	4.8

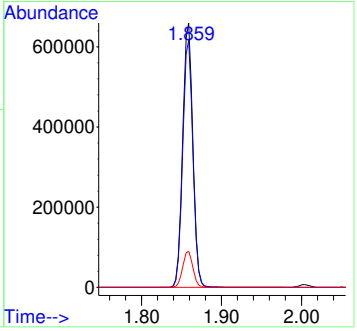


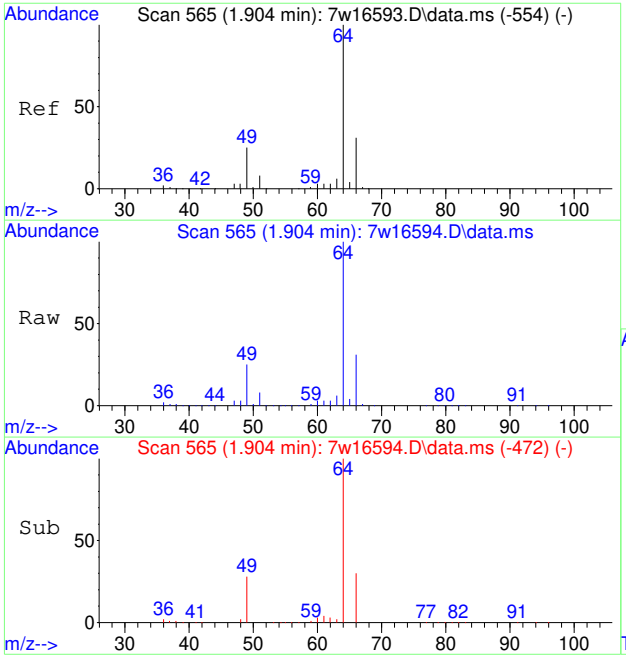


#14
BROMOMETHANE
Concen: 57.25 PPBV
RT: 1.859 min Scan# 551
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 94 Resp: 580953

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.8	9.9	18.3

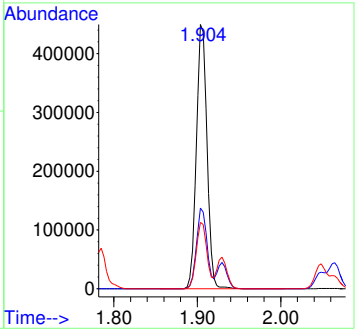


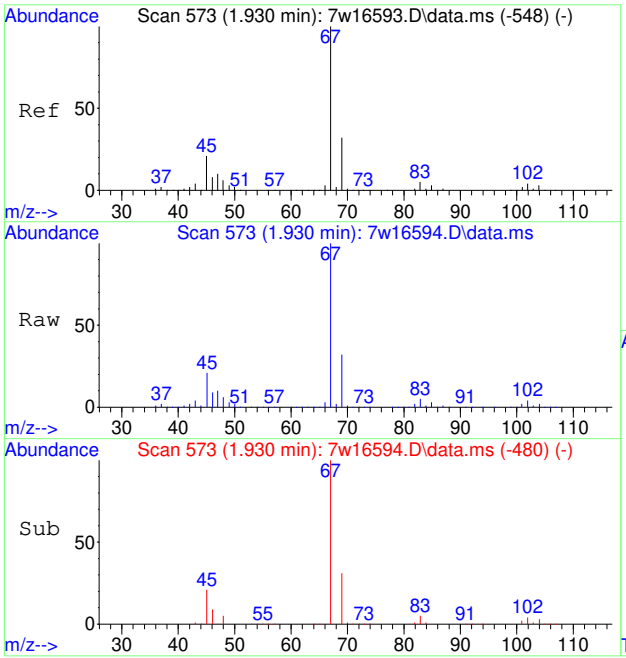


#15
CHLOROETHANE
Concen: 55.81 PPBV
RT: 1.904 min Scan# 565
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 64 Resp: 396609

Ion	Ratio	Lower	Upper
64	100		
66	40.0	21.5	39.9#
49	26.0	19.0	35.4

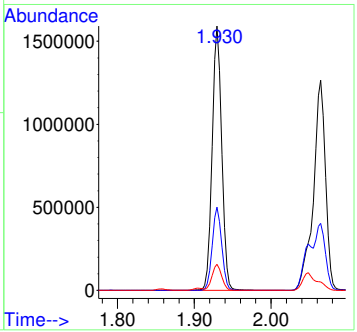


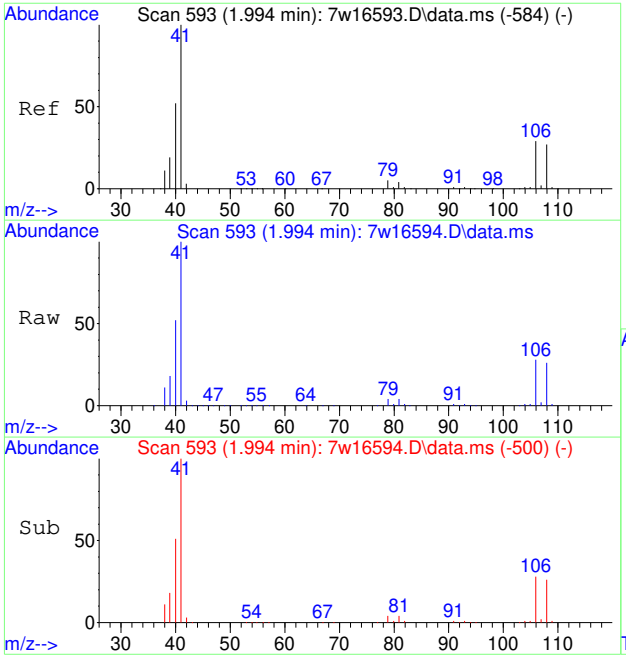


#16
DICHLOROFLUOROMETHANE
Concen: 56.11 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 1380281

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

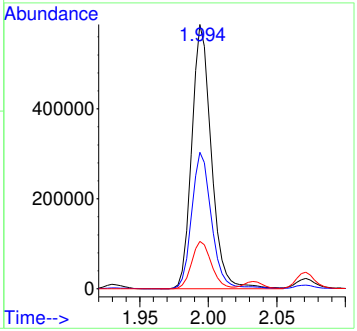


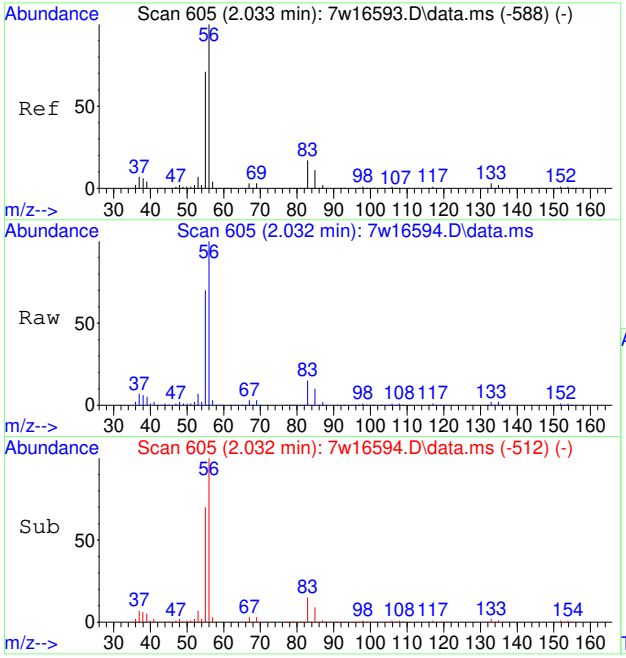


#17
ACETONITRILE
Concen: 47.00 PPBV
RT: 1.994 min Scan# 593
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 581922

Ion	Ratio	Lower	Upper
41	100		
40	52.3	36.7	68.1
39	18.0	13.1	24.3

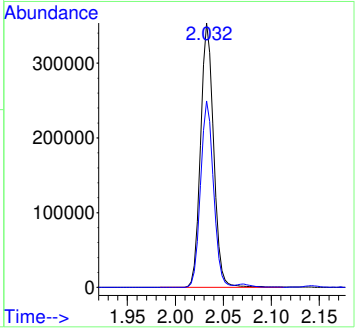


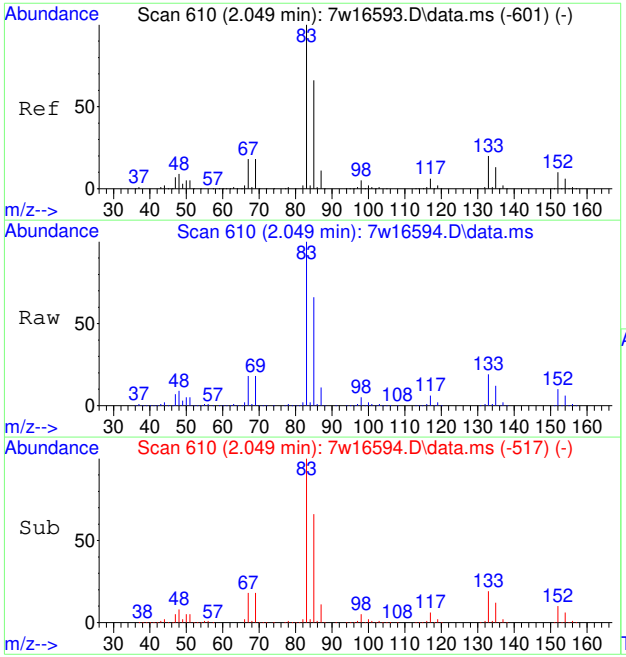


#18
ACROLEIN
Concen: 57.43 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 56 Resp: 334897

Ion	Ratio	Lower	Upper
56	100		
55	69.9	48.9	90.7

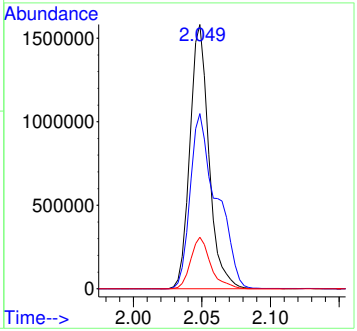


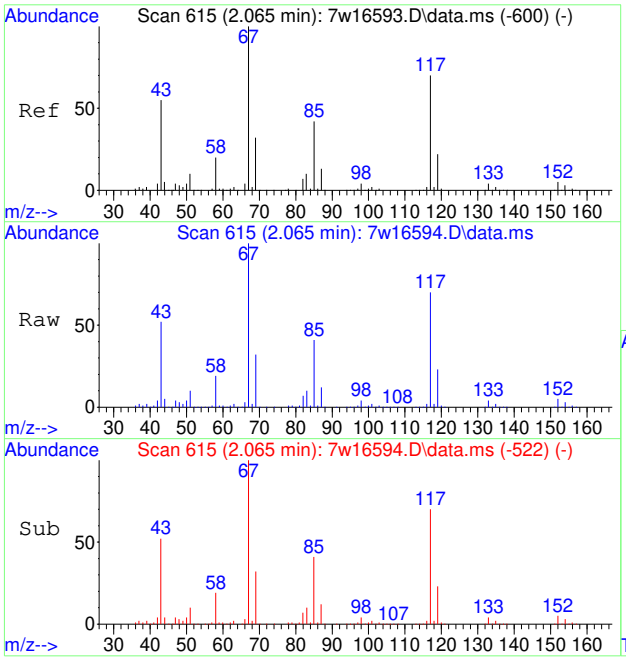


#19
FREON 123
Concen: 61.54 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1521669

Ion	Ratio	Lower	Upper
83	100		
85	92.7	64.9	120.5
133	20.6	14.7	27.3

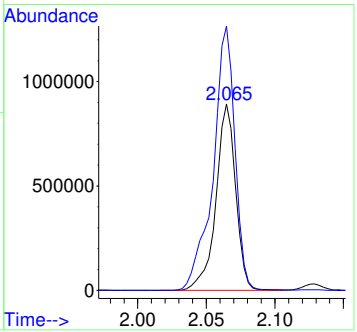


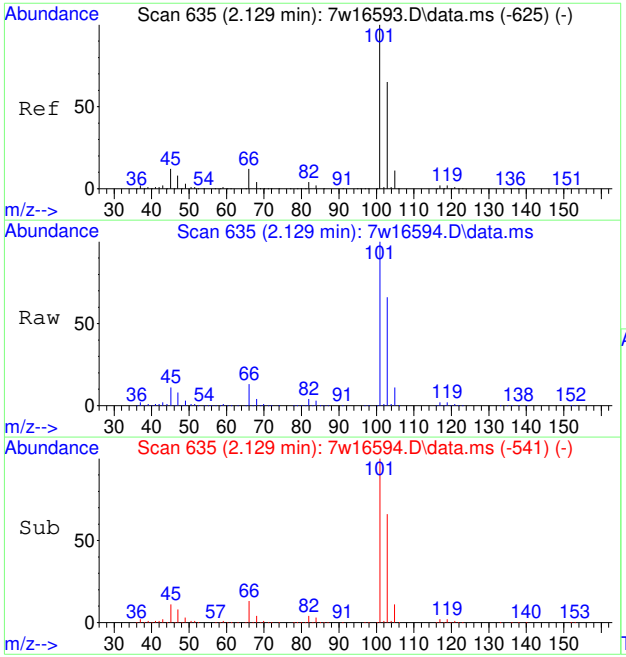


#20
FREON 123A
Concen: 60.73 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 890775

Ion	Ratio	Lower	Upper
117	100		
67	157.1	111.3	206.7

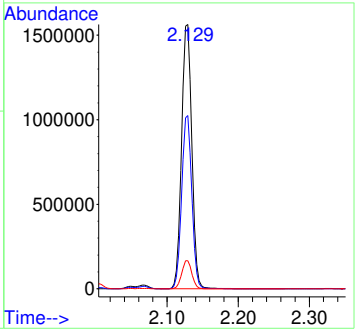


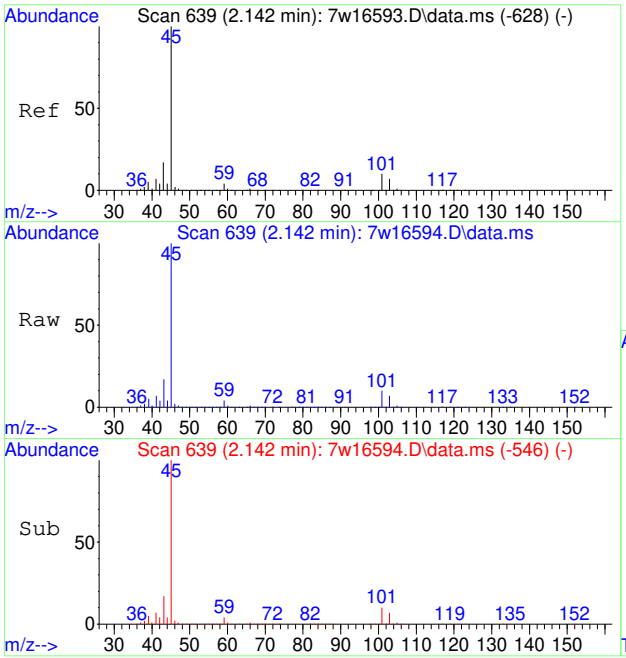


#21
TRICHLOROFLUOROMETHANE
Concen: 55.76 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:101 Resp: 1563139

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.6	7.3	13.5

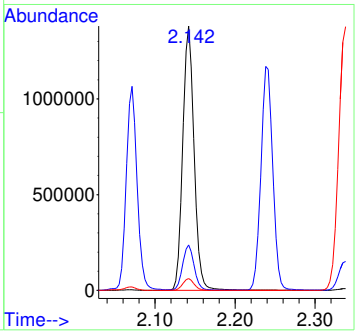


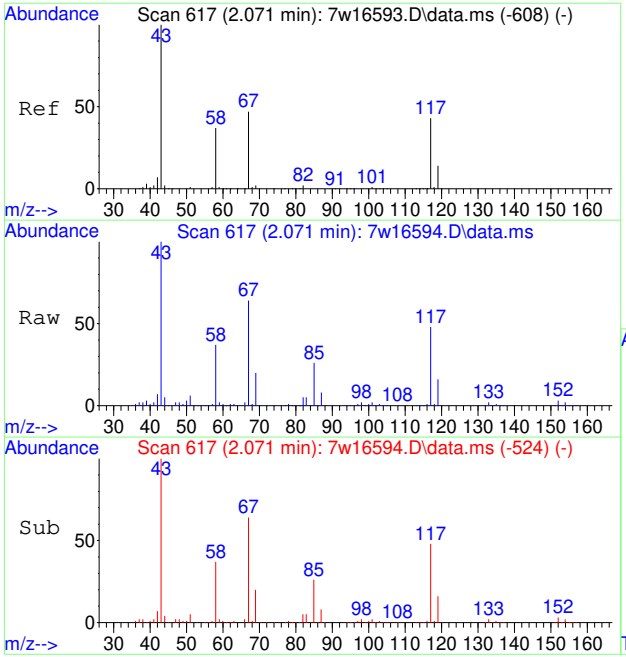


#22
ISOPROPYL ALCOHOL
Concen: 57.05 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 1360413

Ion	Ratio	Lower	Upper
45	100		
43	17.4	12.5	23.3
59	4.5	3.1	5.7

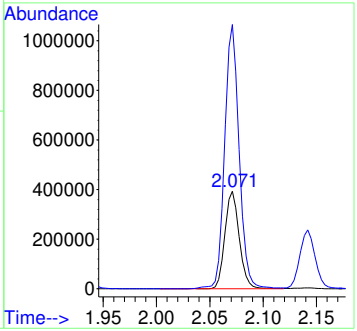


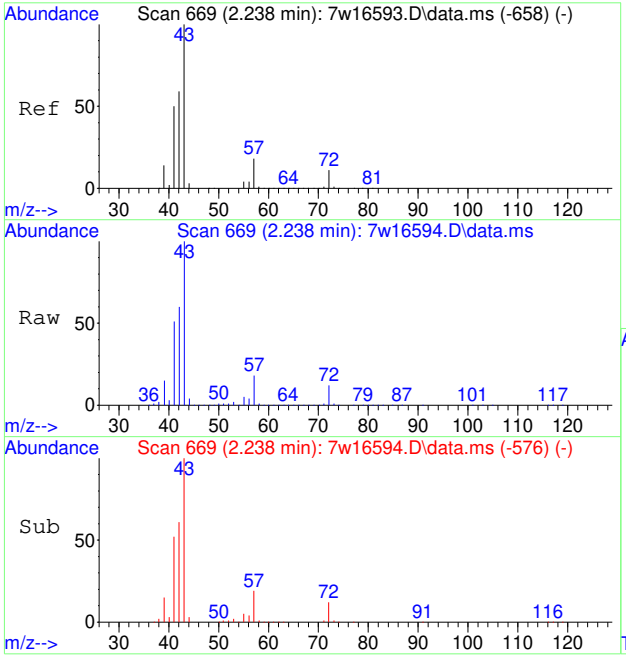


#23
ACETONE
Concen: 56.95 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 370968

Ion	Ratio	Lower	Upper
58	100		
43	271.3	198.6	368.8

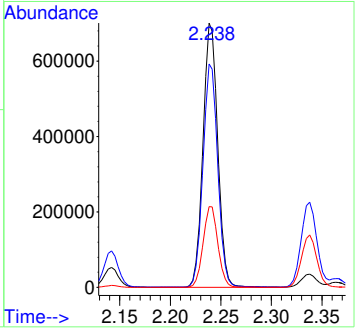


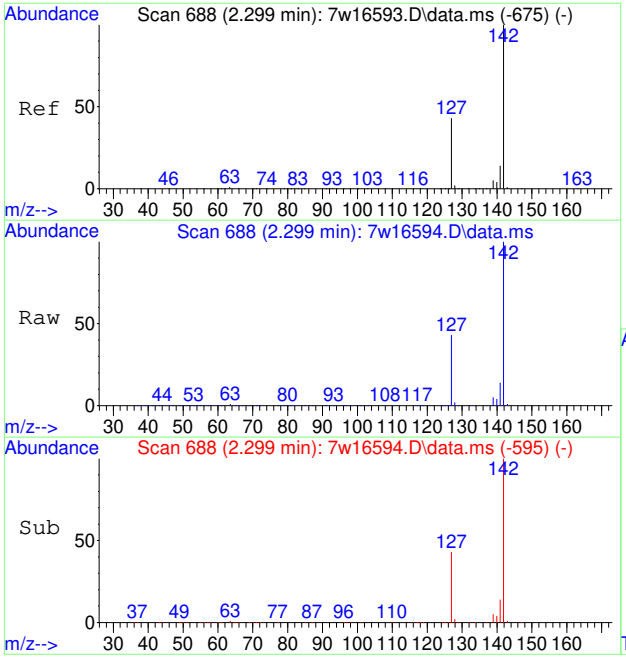


#24
PENTANE
Concen: 54.82 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 42 Resp: 709359

Ion	Ratio	Lower	Upper
42	100		
41	84.8	59.8	111.0
57	30.8	21.1	39.1

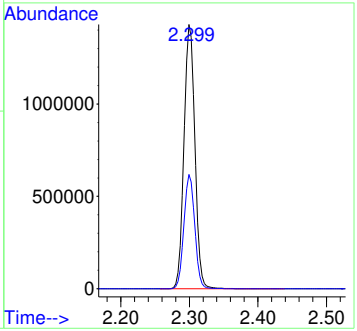


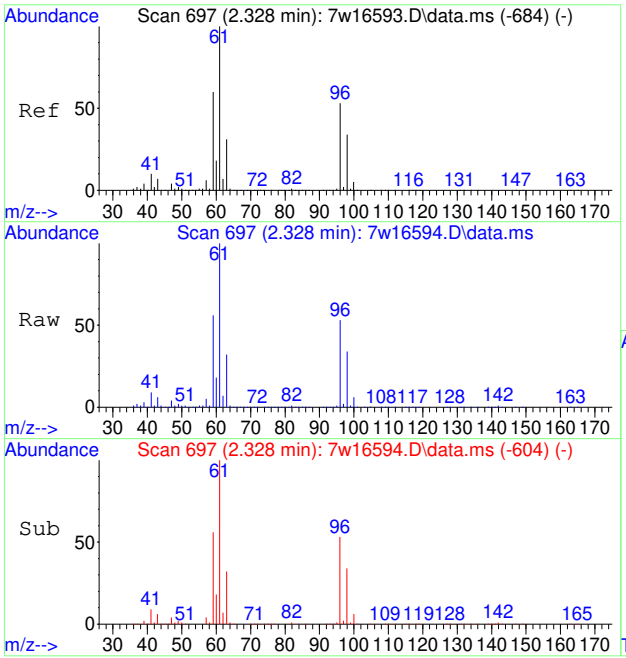


#25
IODOMETHANE
Concen: 61.48 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:142 Resp: 1579517

Ion	Ratio	Lower	Upper
142	100		
127	43.0	30.6	56.8

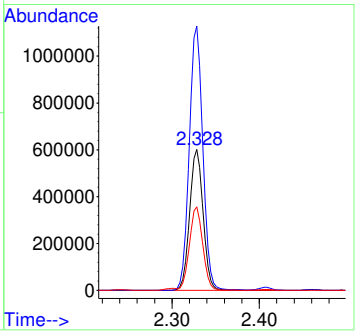


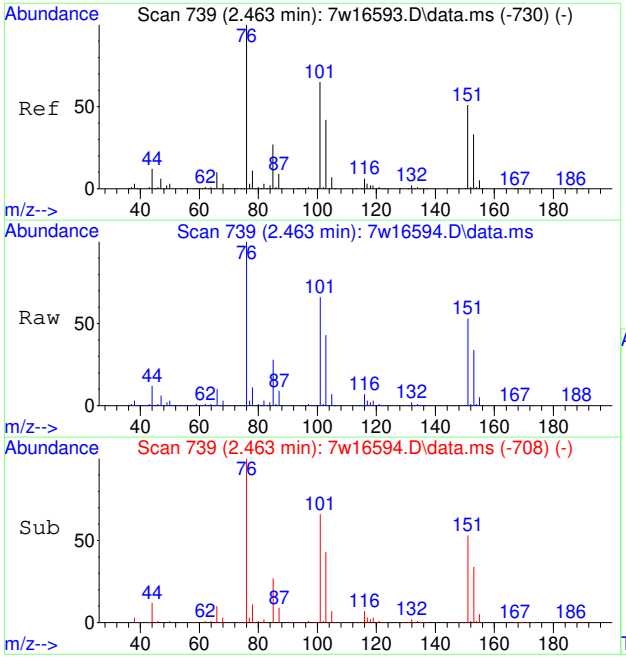


#26
1,1-DICHLOROETHYLENE
Concen: 60.57 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 645693

Ion	Ratio	Lower	Upper
96	100		
61	188.2	138.3	256.8
63	60.1	44.2	82.0

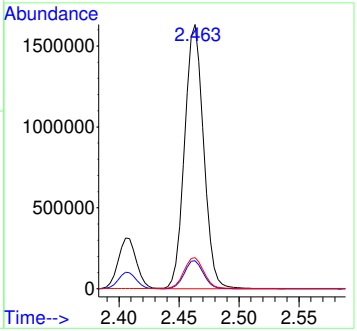


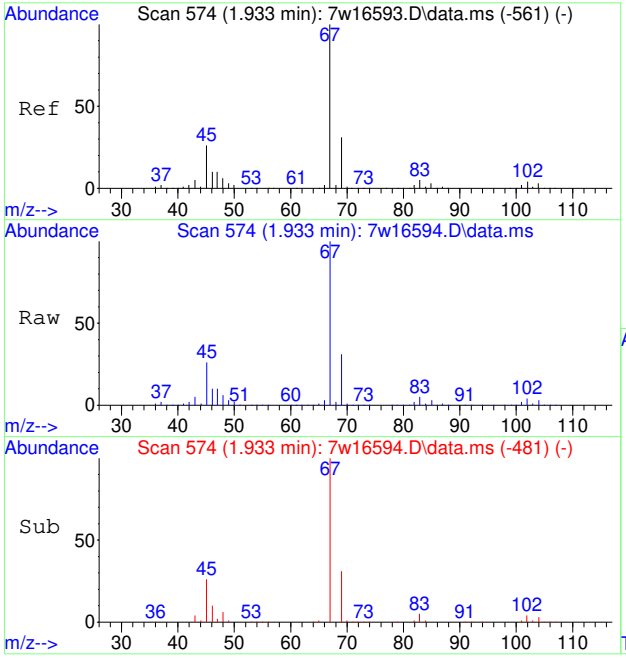


#27
CARBON DISULFIDE
Concen: 59.49 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1800975

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.2	10.2	19.0

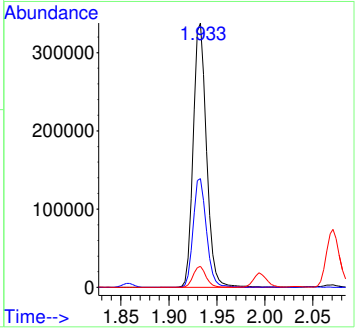


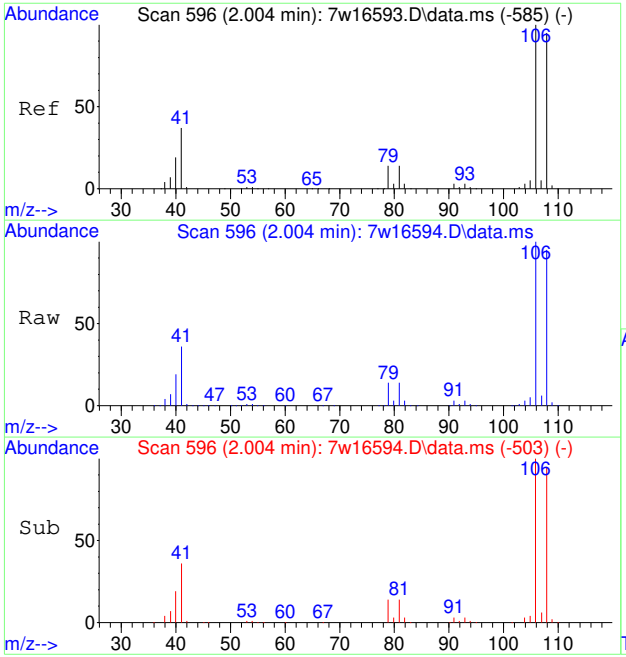


#28
ETHANOL
Concen: 51.26 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 326453

Ion	Ratio	Lower	Upper
45	100		
46	41.2	29.0	53.9
42	7.7	5.7	10.5

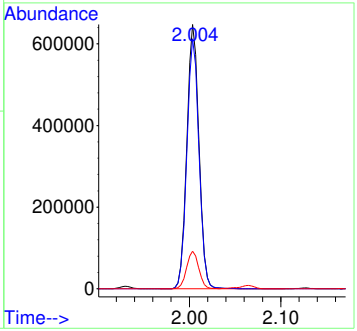


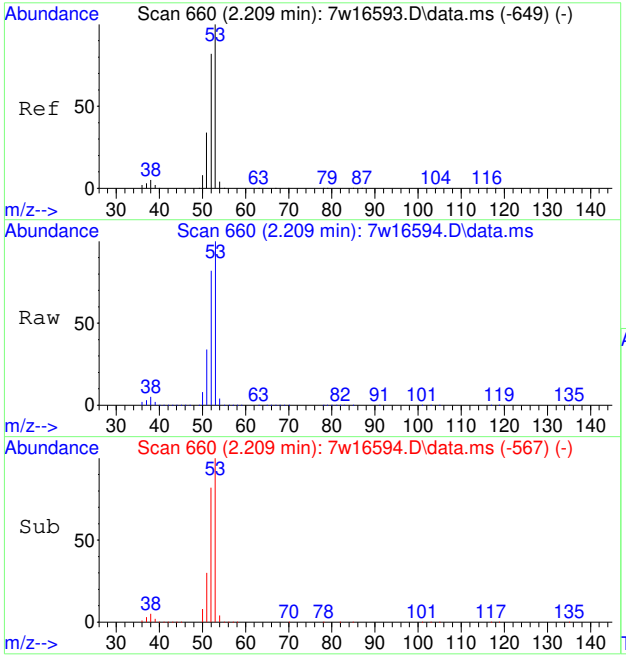


#29
BROMOETHENE
Concen: 58.65 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:106 Resp: 595538

Ion	Ratio	Lower	Upper
106	100		
108	94.5	66.1	122.7
81	14.2	10.6	19.8

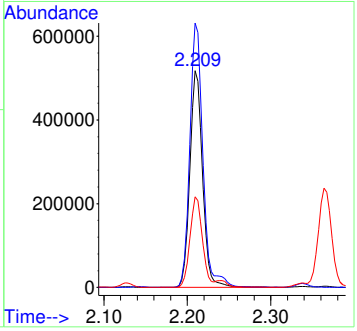


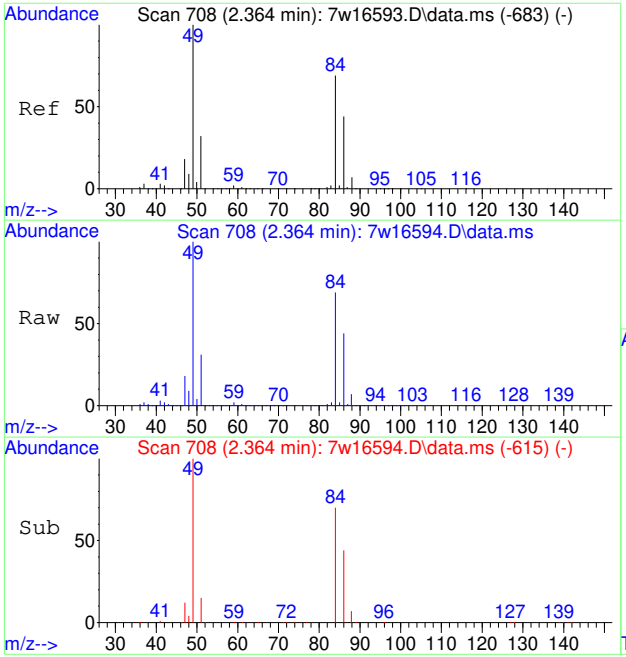


#30
ACRYLONITRILE
Concen: 60.13 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 549118

Ion	Ratio	Lower	Upper
52	100		
53	125.6	88.2	163.8
51	44.2	31.3	58.1

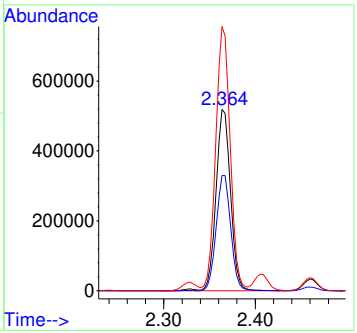


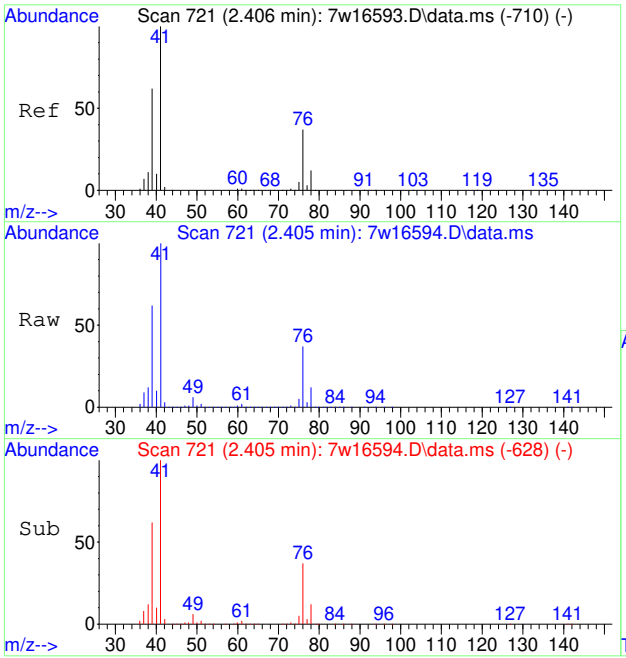


#31
METHYLENE CHLORIDE
Concen: 54.71 PPBV
RT: 2.364 min Scan# 708
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 575223

Ion	Ratio	Lower	Upper
84	100		
86	63.8	44.3	82.3
49	144.7	109.5	203.3

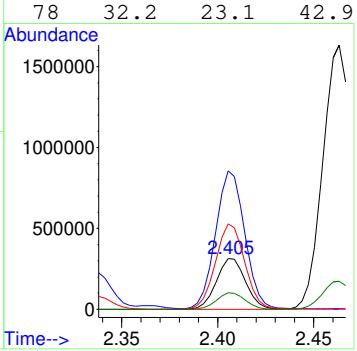


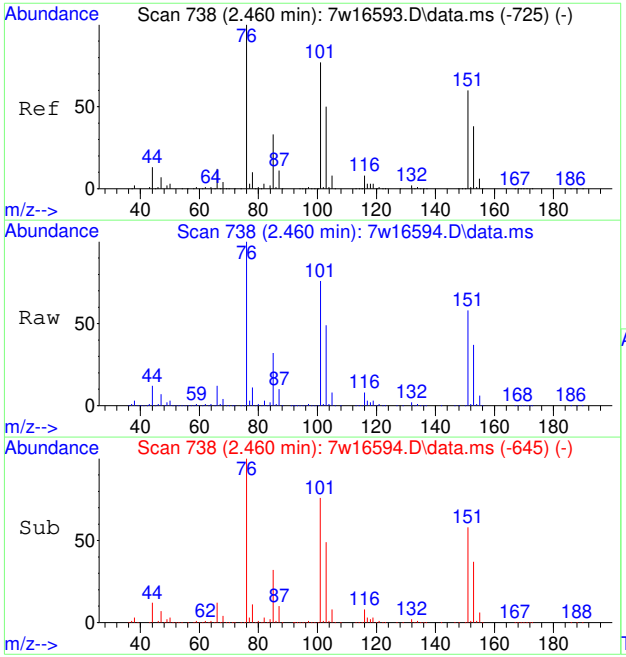


#32
3-CHLOROPROPENE
Concen: 58.47 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 332976

Ion	Ratio	Lower	Upper
76	100		
41	273.7	202.6	376.2
39	168.8	125.8	233.6
78	32.2	23.1	42.9

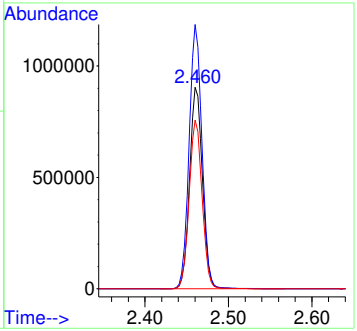


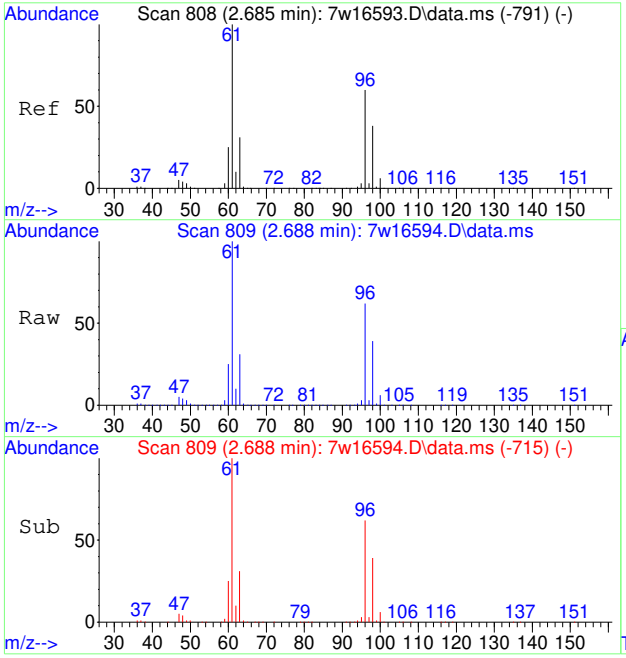


#33
FREON 113
Concen: 60.76 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:151 Resp: 974461

Ion	Ratio	Lower	Upper
151	100		
101	130.5	93.1	172.9
103	84.0	60.1	111.5

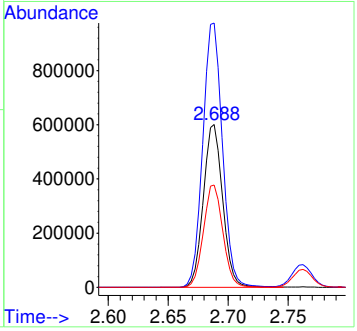


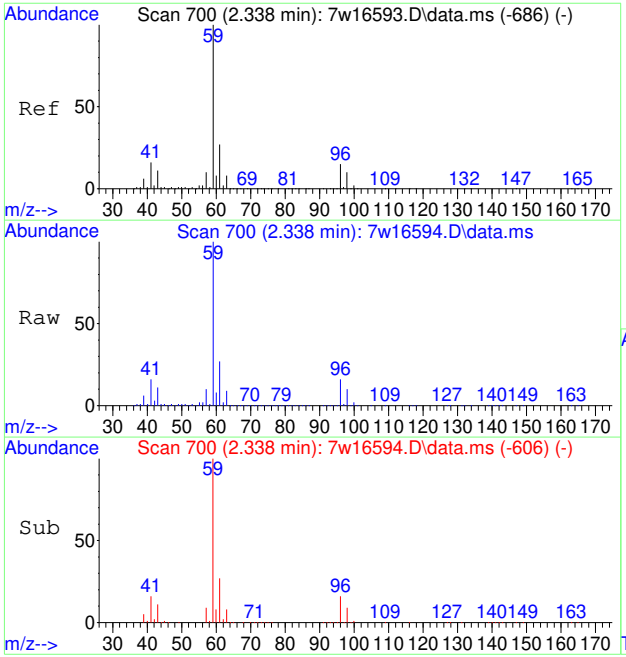


#34
TRANS-1,2-DICHLOROETHENE
Concen: 57.48 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 674414

Ion	Ratio	Lower	Upper
96	100		
61	164.4	119.6	222.0
98	63.1	44.9	83.5

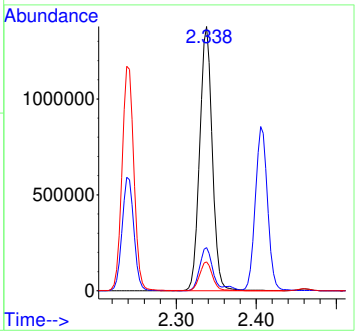


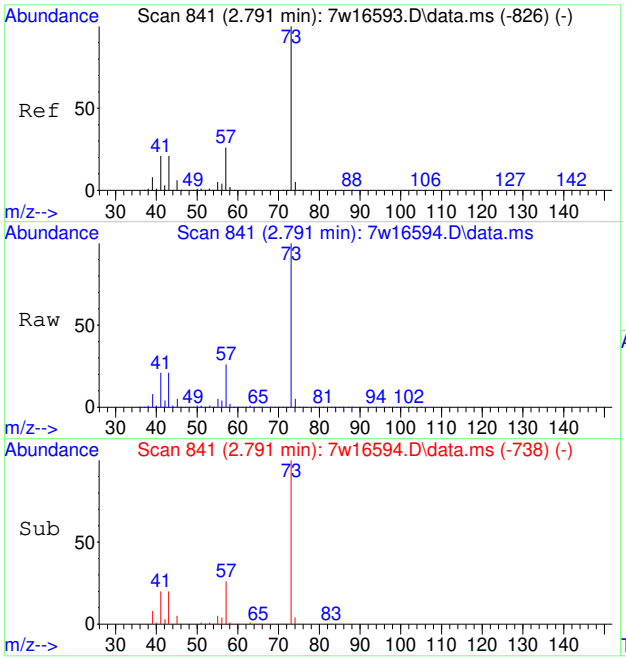


#35
TERTIARY BUTYL ALCOHOL
Concen: 50.59 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 1507671

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.0	8.0	14.8

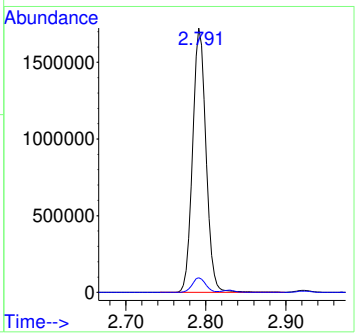


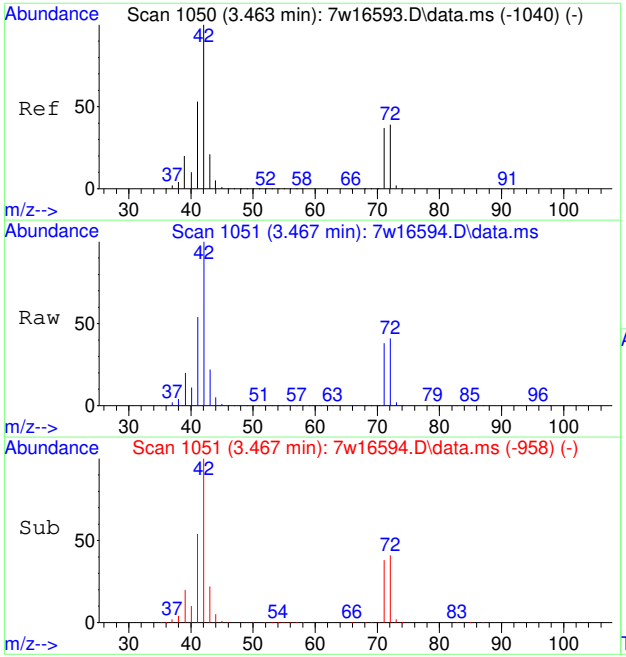


#36
METHYL TERTIARY BUTYL ETHER
Concen: 60.14 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 73 Resp: 2004125

Ion	Ratio	Lower	Upper
73	100		
45	5.5	4.1	7.5

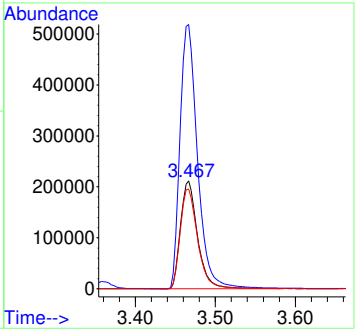


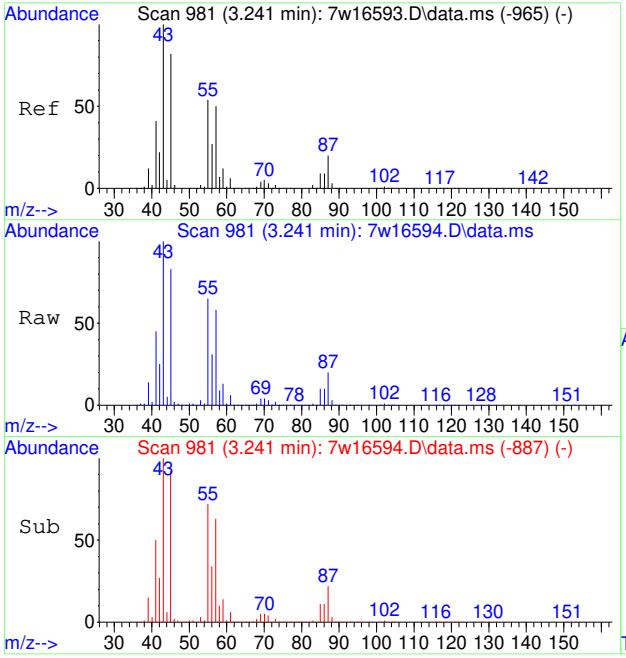


#37
TETRAHYDROFURAN
Concen: 58.71 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 315623

Ion	Ratio	Lower	Upper
72	100		
42	250.8	180.3	334.8
71	94.1	65.8	122.2

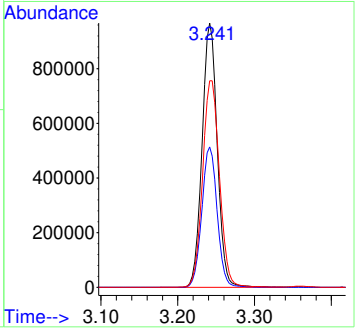


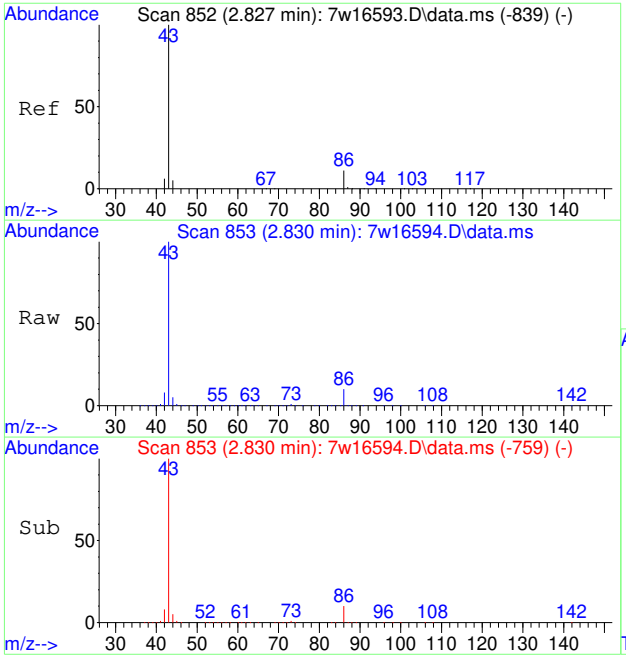


#38
HEXANE
Concen: 59.12 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1329253

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	86.9	65.9	122.5

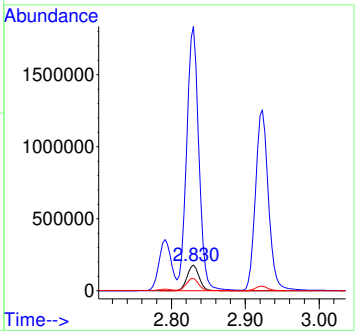


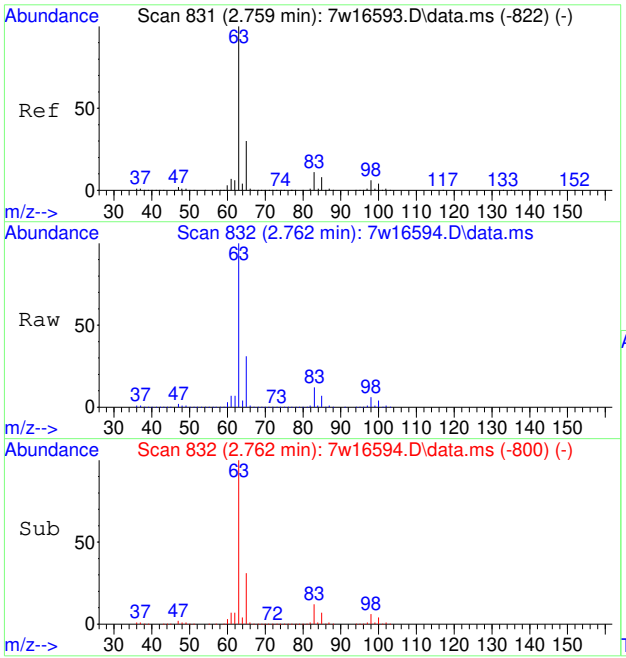


#39
VINYL ACETATE
Concen: 64.15 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 86 Resp: 203564

Ion	Ratio	Lower	Upper
86	100		
43	1037.6	758.7	1408.9
44	49.0	39.5	73.3

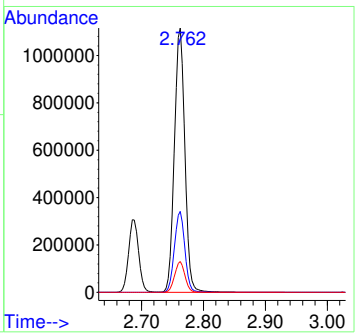


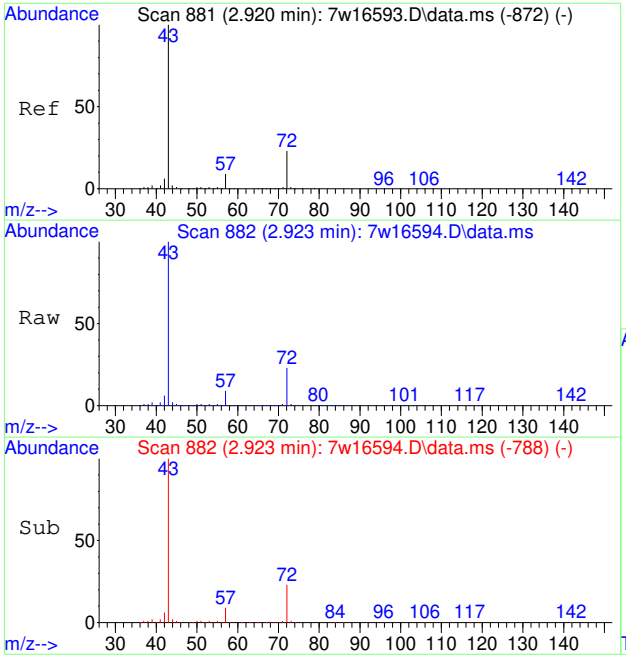


#40
1,1-DICHLOROETHANE
Concen: 57.90 PPBV
RT: 2.762 min Scan# 832
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 1312399

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.4	39.8
83	11.6	8.3	15.5

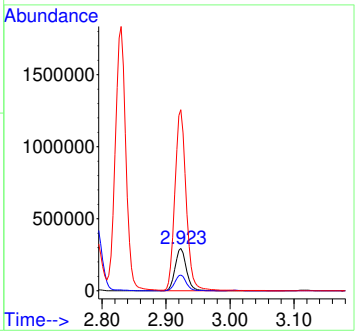


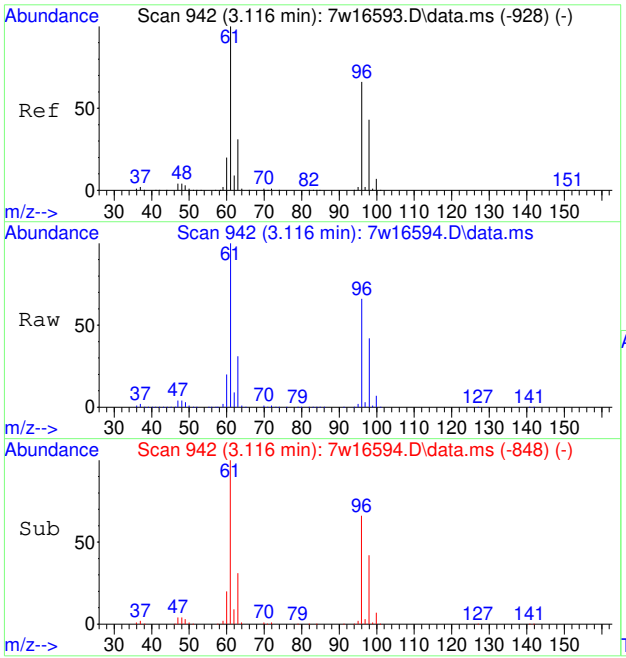


#41
METHYL ETHYL KETONE
Concen: 58.79 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 360548

Ion	Ratio	Lower	Upper
72	100		
57	37.4	26.9	49.9
43	429.0	309.4	574.6

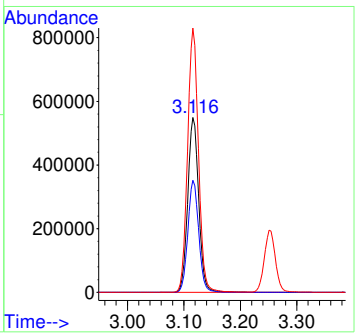


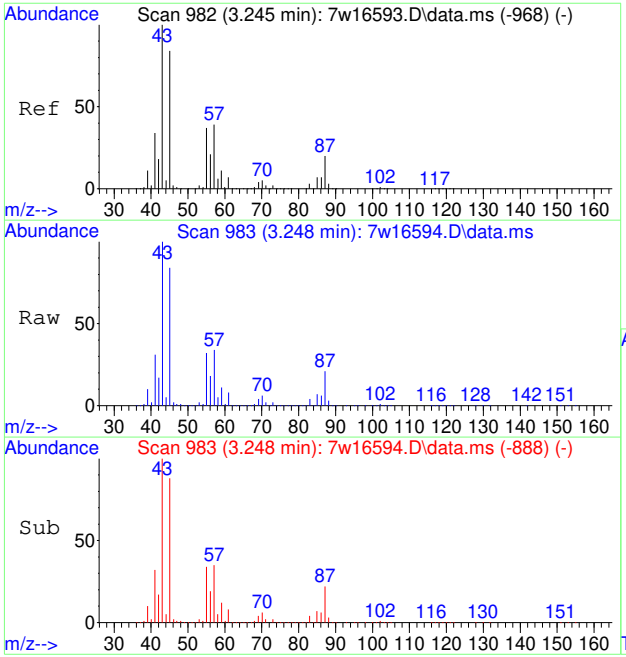


#42
CIS-1,2-DICHLOROETHENE
Concen: 60.78 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 737182

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	150.4	107.3	199.3

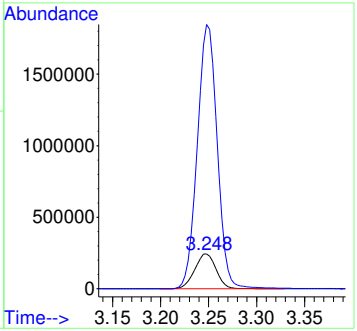


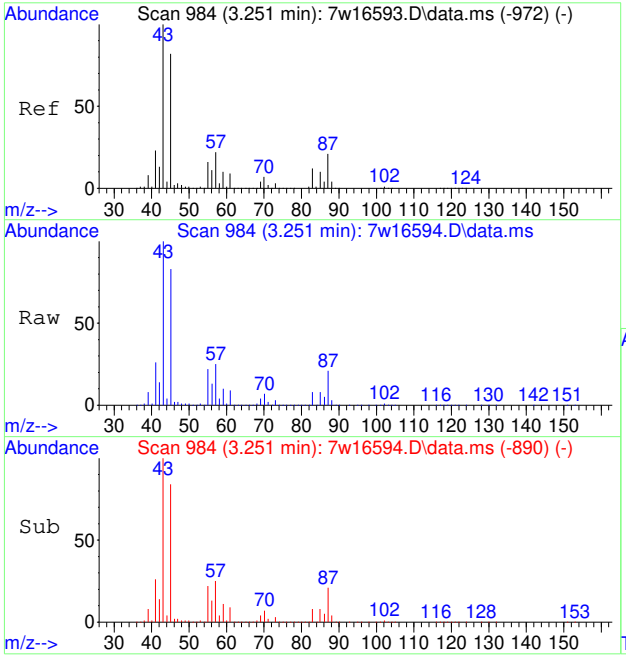


#43
DIISOPROPYL ETHER
Concen: 59.86 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 381162

Ion	Ratio	Lower	Upper
59	100		
45	704.4	517.6	961.2

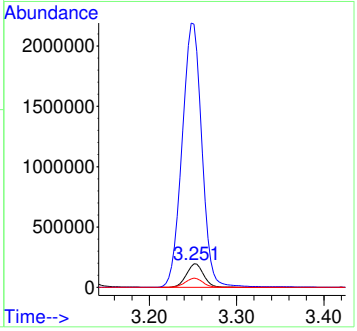


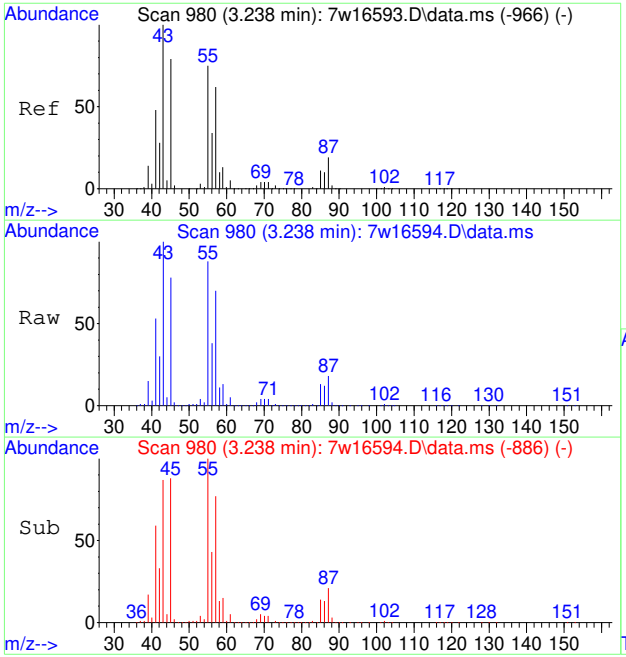


#44
ETHYL ACETATE
Concen: 63.06 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 61 Resp: 270078

Ion	Ratio	Lower	Upper
61	100		
43	1278.6	955.4	1774.4
88	40.5	27.6	51.2

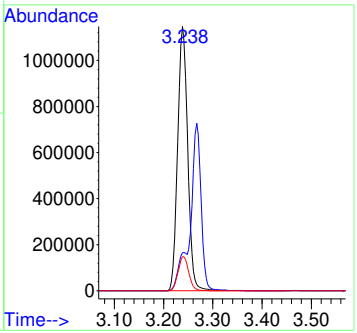


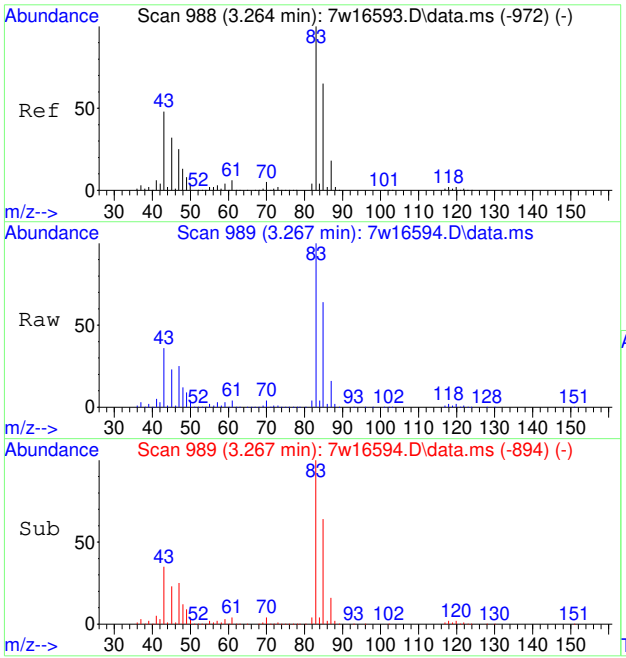


#45
METHYL ACRYLATE
Concen: 60.36 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 1639035

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

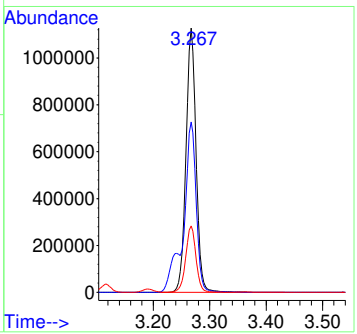


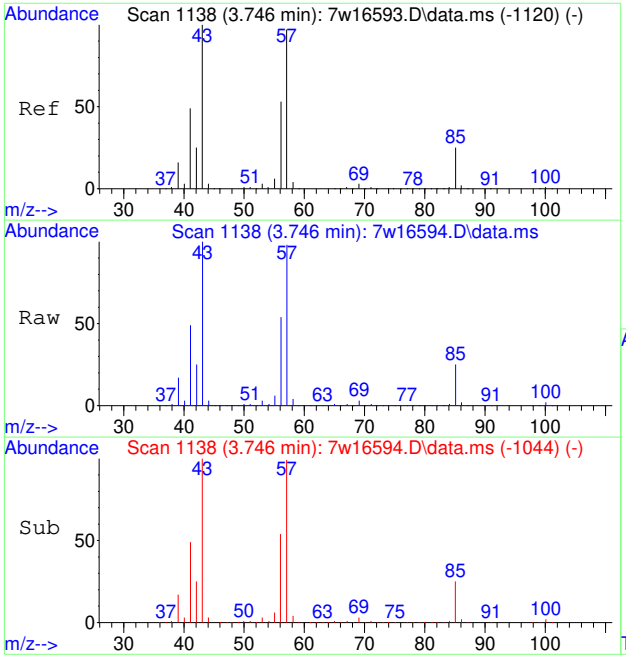


#46
CHLOROFORM
Concen: 59.52 PPBV
RT: 3.267 min Scan# 989
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1396609

Ion	Ratio	Lower	Upper
83	100		
85	81.5	56.0	104.0
47	25.8	19.0	35.4

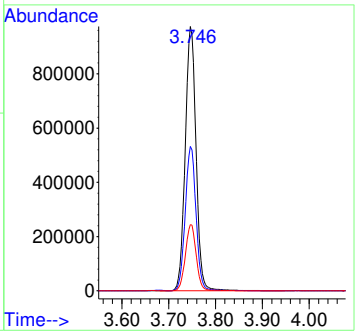


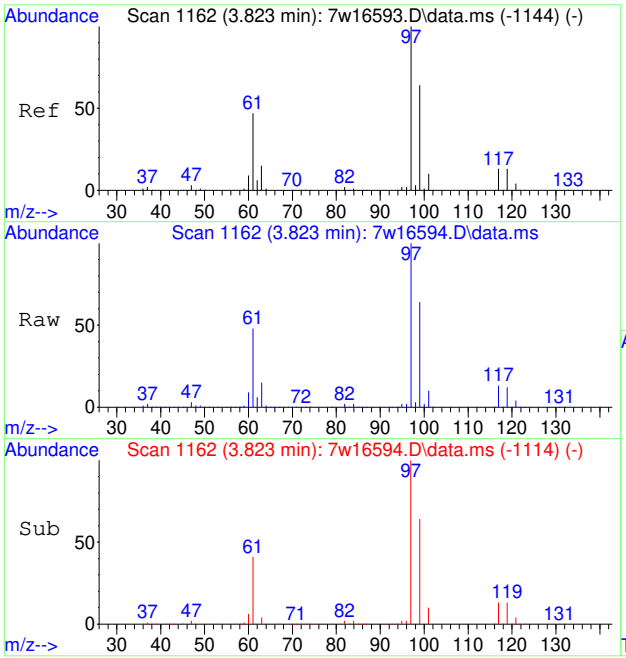


#47
2,4-DIMETHYLPENTANE
Concen: 62.29 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1562455

Ion	Ratio	Lower	Upper
57	100		
56	54.7	38.4	71.2
85	25.2	17.5	32.5

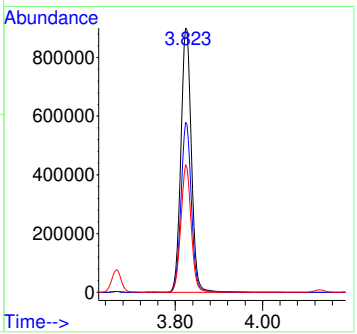


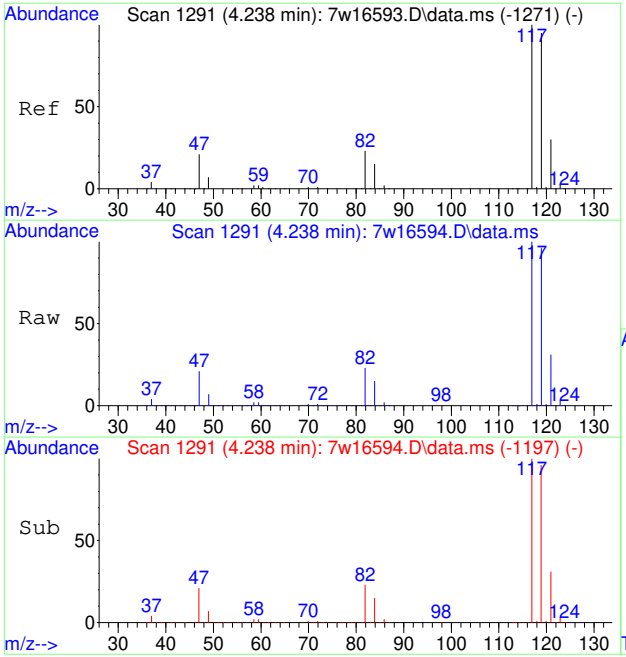


#48
1,1,1-TRICHLOROETHANE
Concen: 61.02 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 97 Resp: 1503844

Ion	Ratio	Lower	Upper
97	100		
99	63.9	45.0	83.6
61	47.7	34.7	64.5

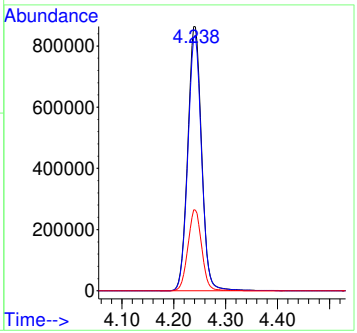


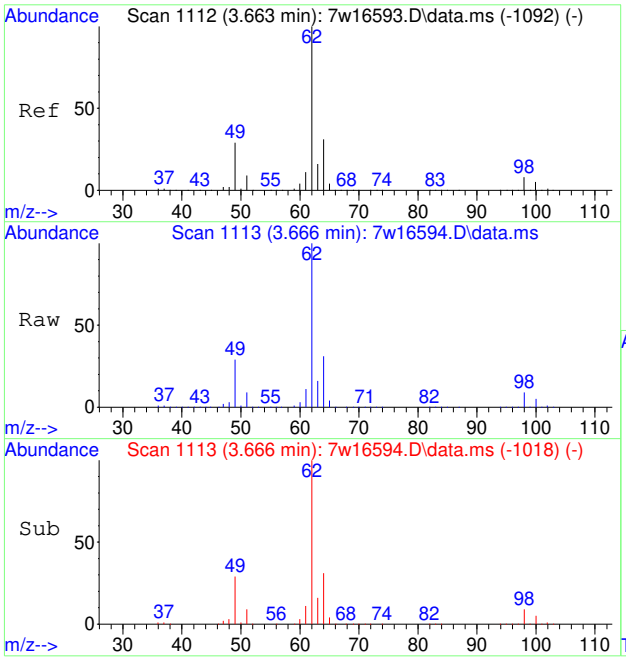


#49
CARBON TETRACHLORIDE
Concen: 62.67 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1592865

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.5	125.3
121	30.7	21.3	39.5

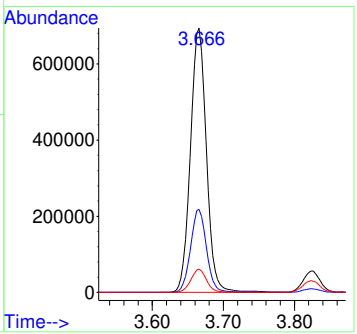


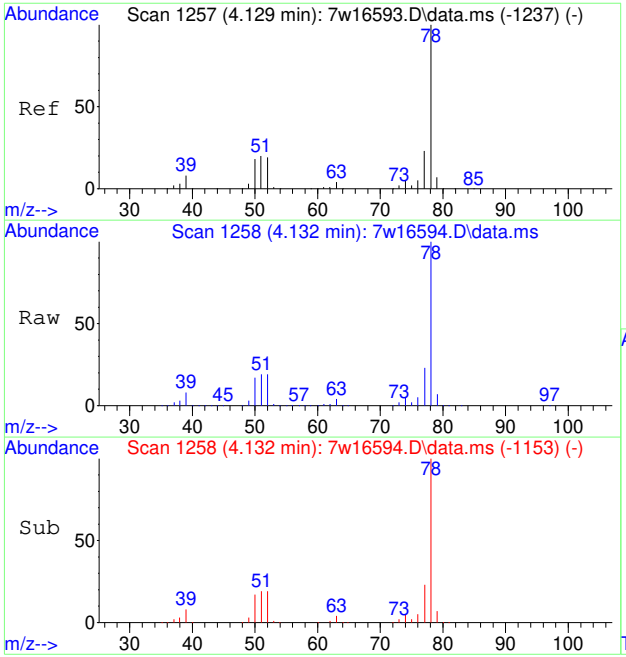


#50
1,2-DICHLOROETHANE
Concen: 59.76 PPBV
RT: 3.666 min Scan# 1113
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 1086518

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.7	5.8	10.8

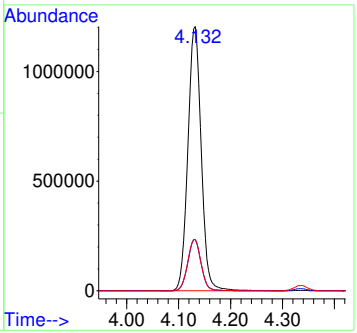


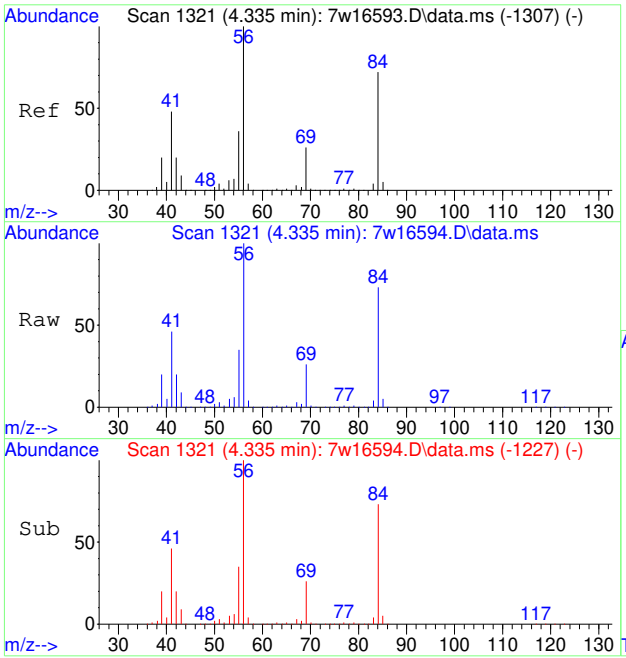


#51
BENZENE
Concen: 59.55 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 78 Resp: 2141182

Ion	Ratio	Lower	Upper
78	100		
52	19.5	0.0	49.9
51	19.7	0.0	50.6

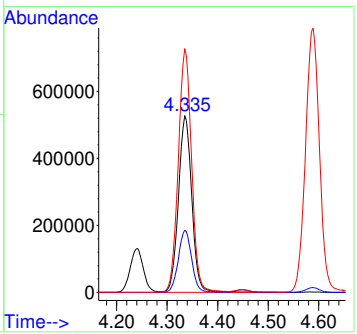


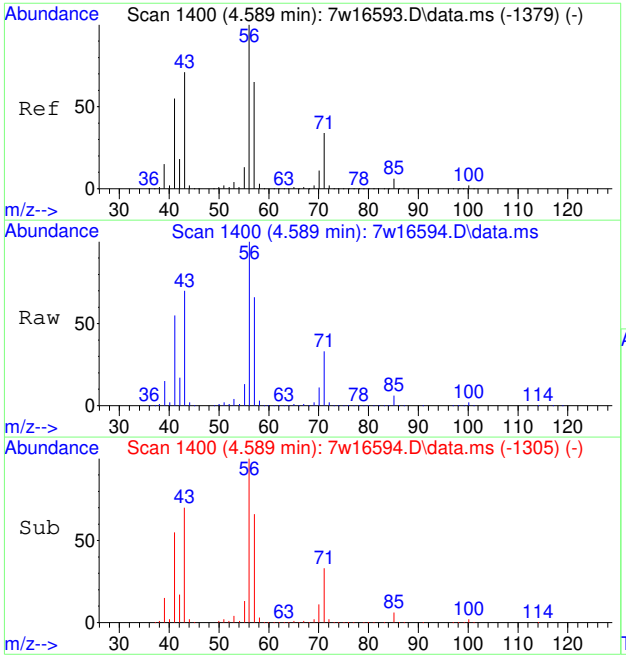


#53
CYCLOHEXANE
Concen: 62.31 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 968144

Ion	Ratio	Lower	Upper
84	100		
69	35.1	24.6	45.6
56	137.7	96.4	179.0

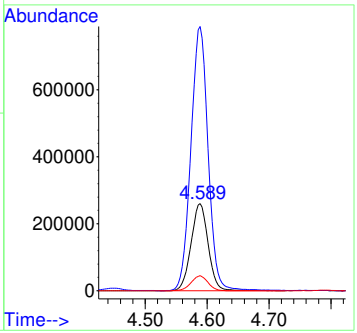


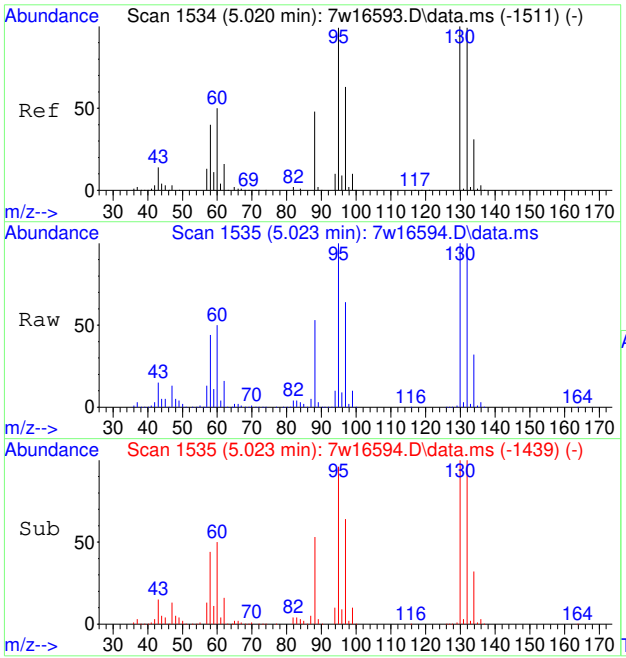


#54
2,3-DIMETHYLPENTANE
Concen: 64.89 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 71 Resp: 501690

Ion	Ratio	Lower	Upper
71	100		
56	303.6	213.2	396.0
85	17.4	12.2	22.6

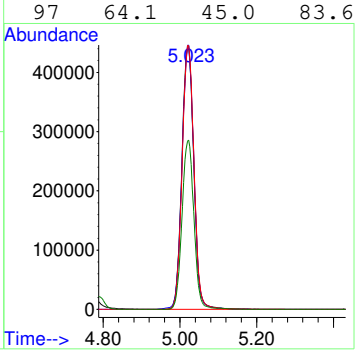


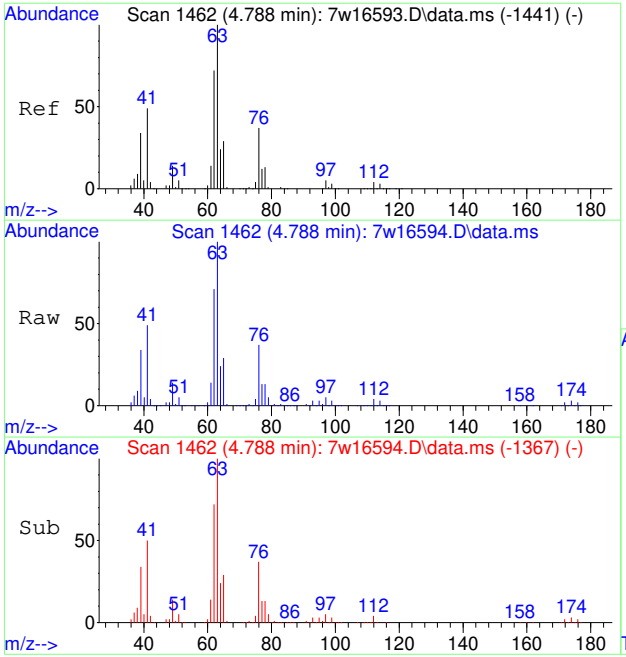


#55
TRICHLOROETHENE
Concen: 57.89 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 95 Resp: 961087

Ion	Ratio	Lower	Upper
95	100		
130	100.0	69.4	129.0
132	99.5	69.4	128.8
97	64.1	45.0	83.6

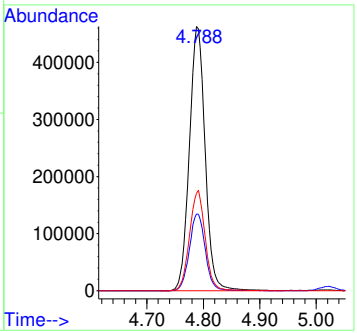


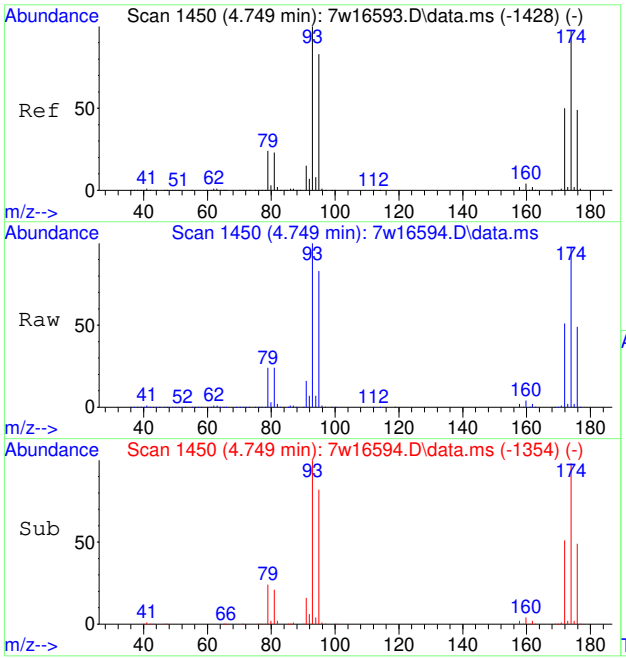


#56
1,2-DICHLOROPROPANE
Concen: 61.43 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 899764

Ion	Ratio	Lower	Upper
63	100		
65	29.5	20.5	38.1
76	37.8	27.1	50.3

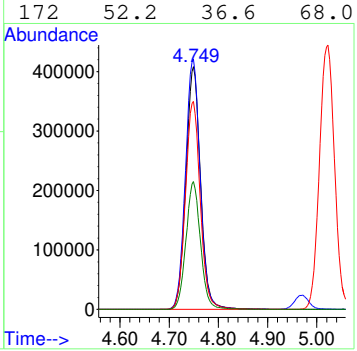


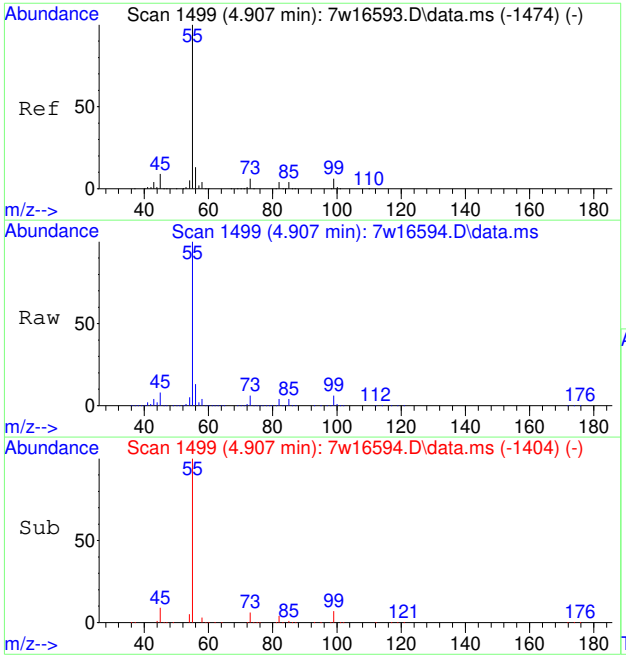


#57
DIBROMOMETHANE
Concen: 59.53 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:174 Resp: 843168

Ion	Ratio	Lower	Upper
174	100		
93	104.3	75.3	139.9
95	87.0	62.4	115.8
172	52.2	36.6	68.0

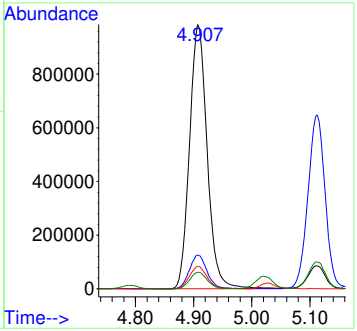


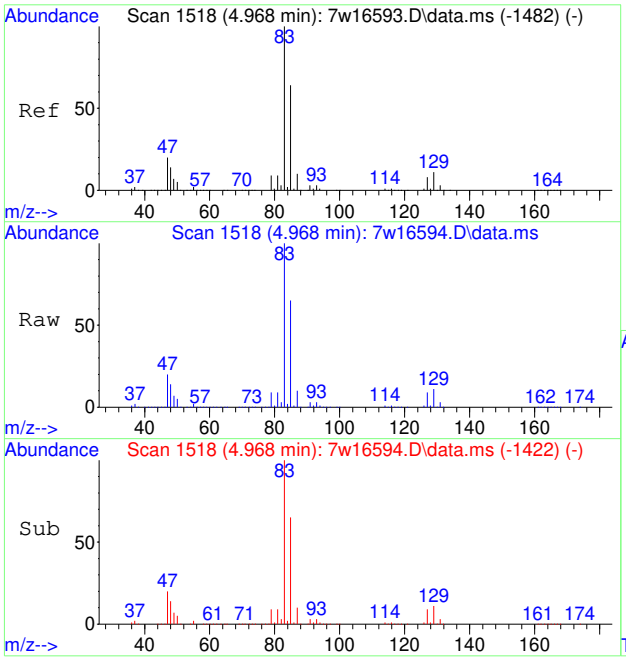


#58
ETHYL ACRYLATE
Concen: 63.61 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 2081872

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.5	6.1	11.3
99	6.2	4.3	8.1

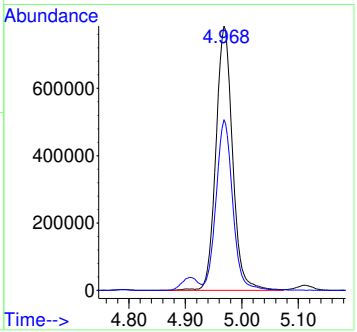


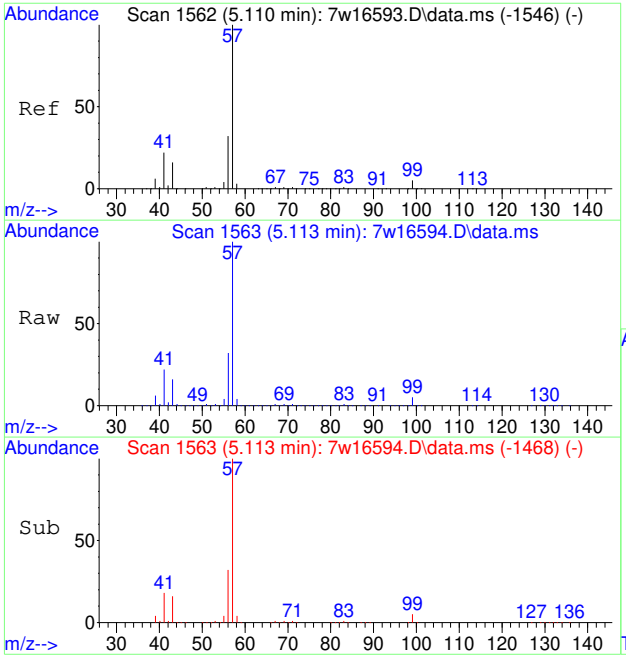


#59
BROMODICHLOROMETHANE
Concen: 60.60 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1618277

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

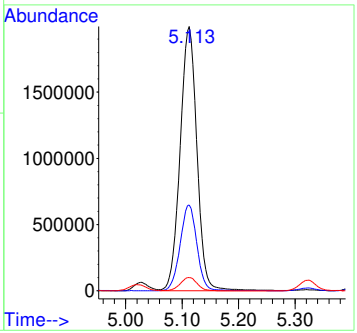


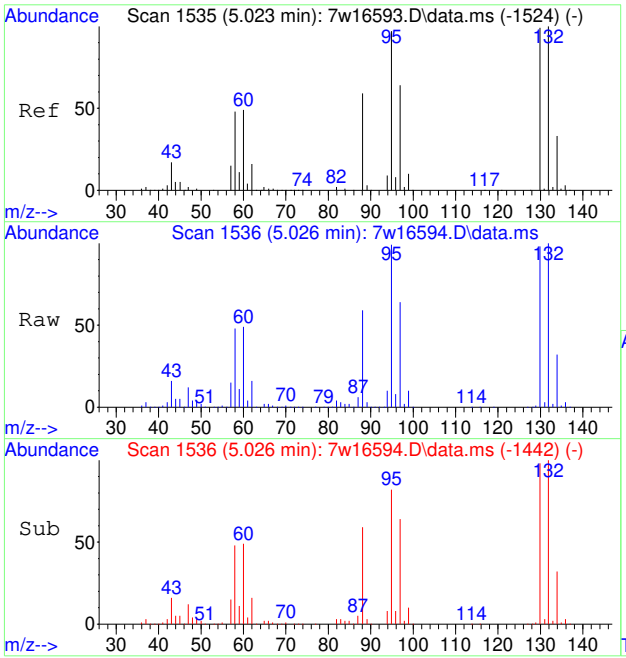


#60
2,2,4-TRIMETHYLPENTANE
Concen: 57.19 PPBV
RT: 5.113 min Scan# 1563
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 4127531

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

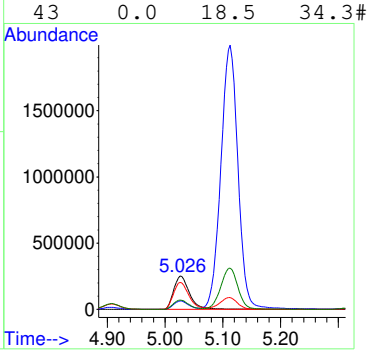


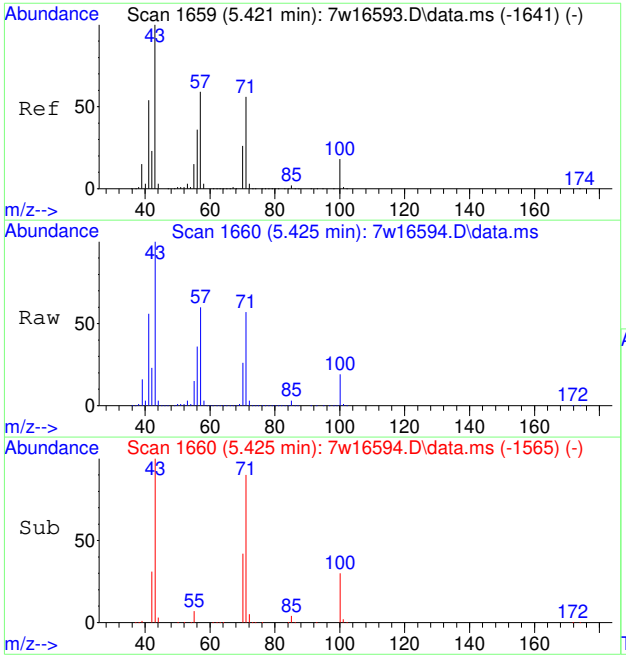


#61
1,4-DIOXANE
Concen: 61.98 PPBV m
RT: 5.026 min Scan# 1536
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 88 Resp: 483214

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

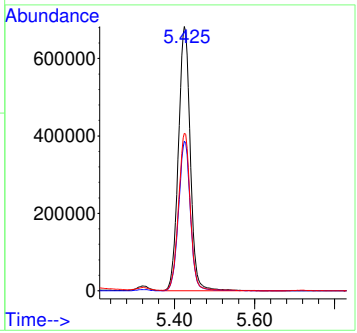


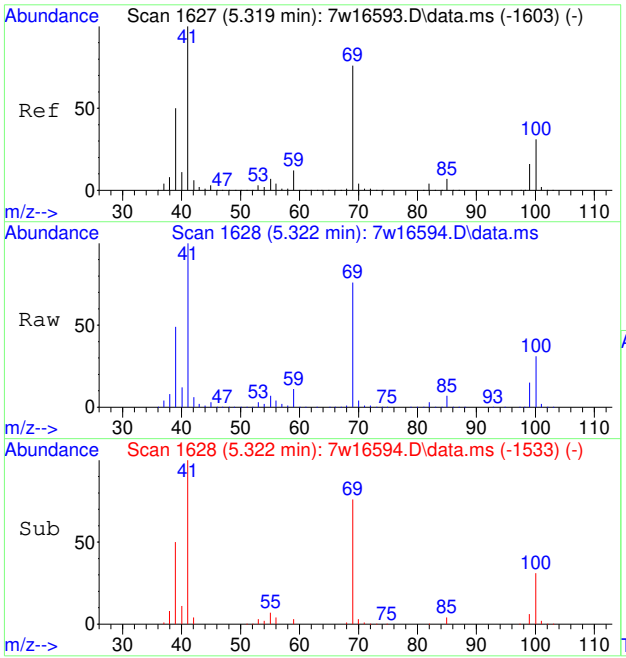


#62
HEPTANE
Concen: 59.03 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1404941

Ion	Ratio	Lower	Upper
43	100		
71	56.5	38.9	72.2
57	59.8	40.5	75.3

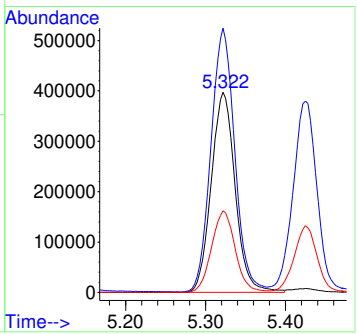


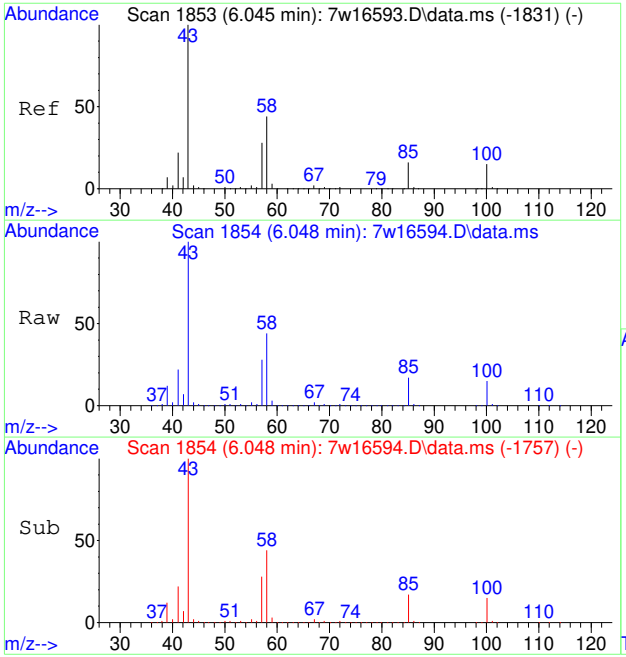


#63
METHYL METHACRYLATE
Concen: 62.06 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 825175

Ion	Ratio	Lower	Upper
69	100		
41	130.8	95.5	177.4
100	40.3	28.1	52.1

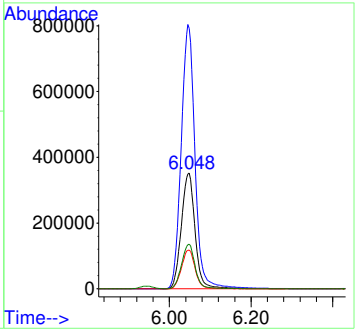


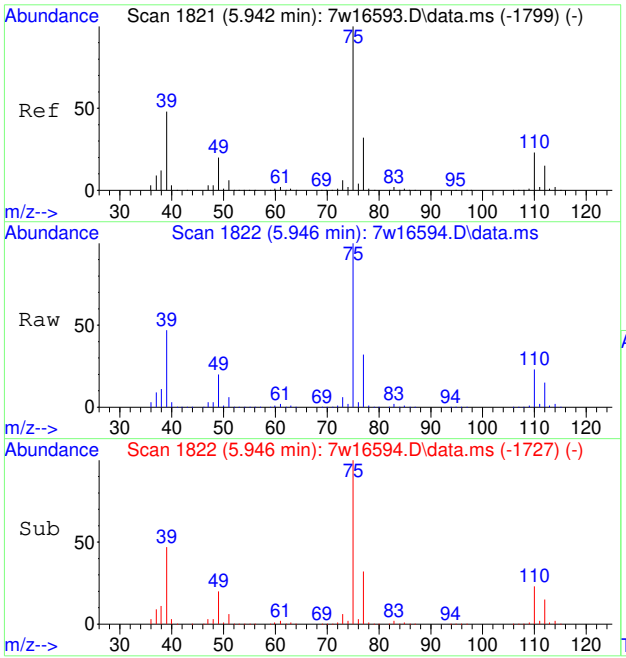


#64
METHYL ISOBUTYL KETONE
Concen: 57.66 PPBV
RT: 6.048 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 823387

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.8	23.2	43.2
85	38.1	26.5	49.3

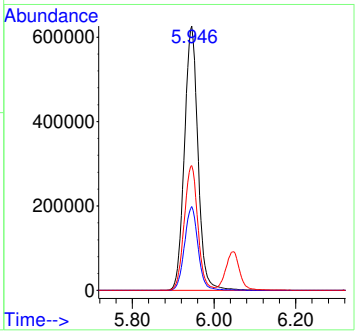


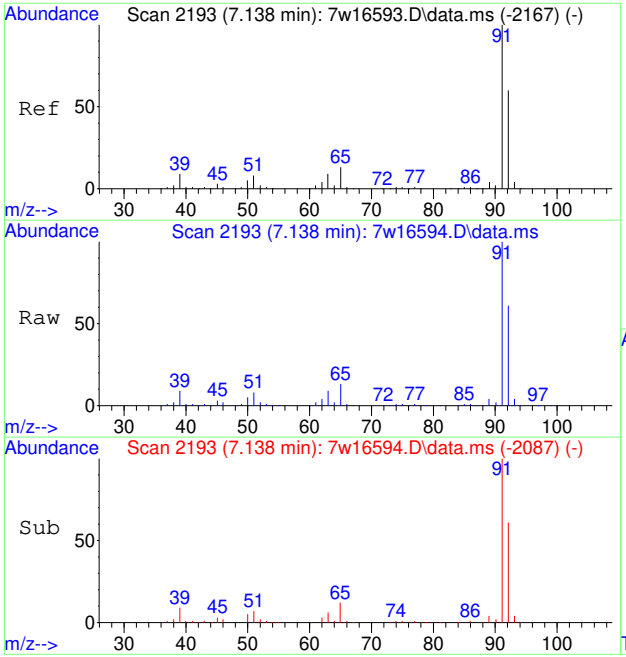


#65
CIS-1,3-DICHLOROPROPENE
Concen: 64.81 PPBV
RT: 5.946 min Scan# 1822
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1444587

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.0	41.0
39	47.4	35.7	66.3

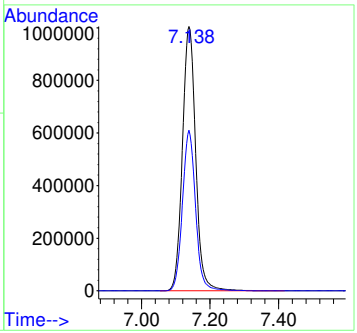


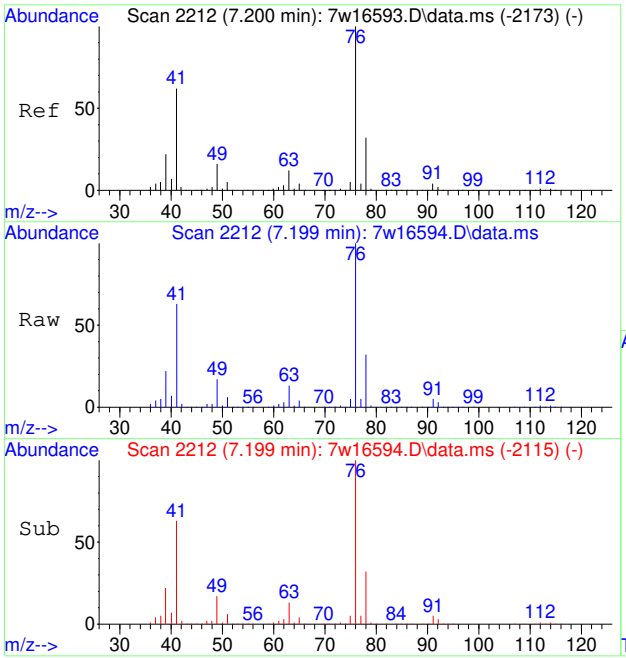


#66
TOLUENE
Concen: 63.95 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2694962

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

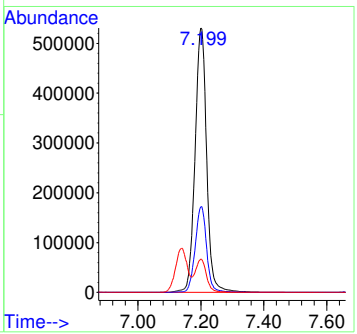


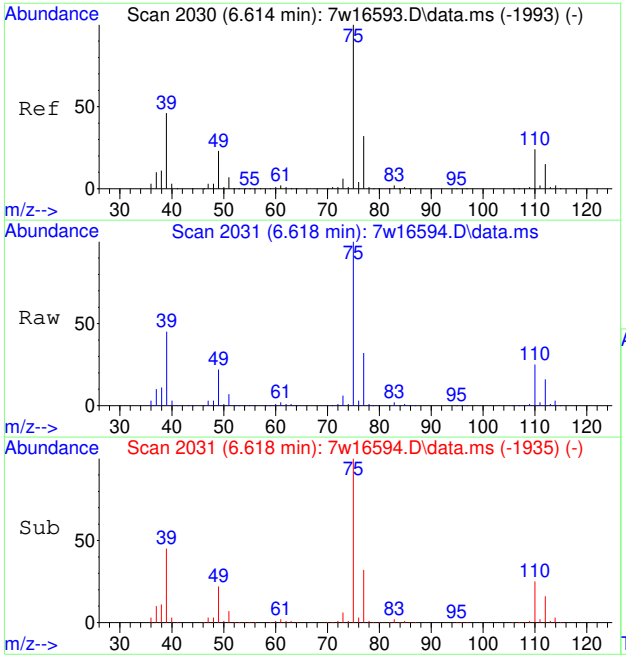


#67
1,3-DICHLOROPROPANE
Concen: 64.47 PPBV
RT: 7.199 min Scan# 2212
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1360921

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.7	8.3	15.5

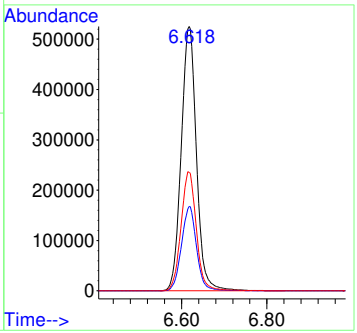


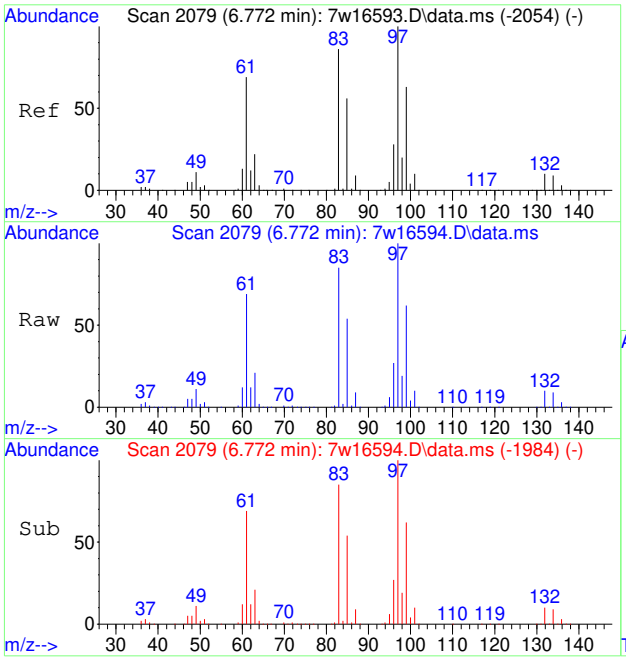


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 65.06 PPBV
RT: 6.618 min Scan# 2031
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1302469

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.3	41.5
39	45.4	33.9	63.0

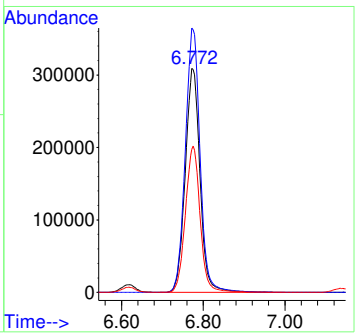


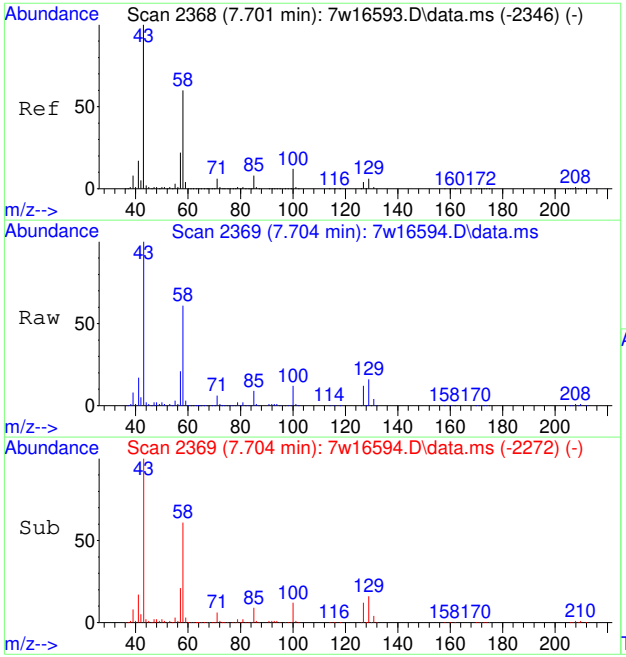


#69
1,1,2-TRICHLOROETHANE
Concen: 64.67 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 774964

Ion	Ratio	Lower	Upper
83	100		
97	0.0	81.2	150.8#
85	65.3	45.1	83.7

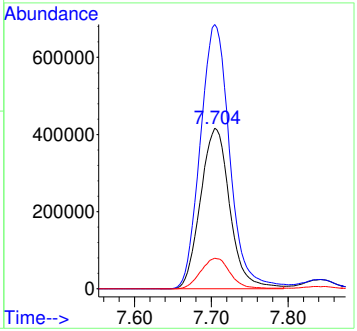


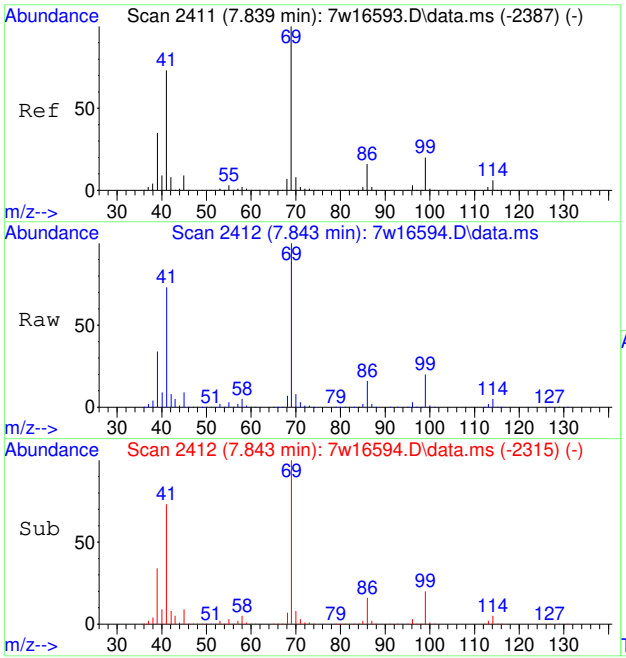


#70
2-HEXANONE
Concen: 55.20 PPBV
RT: 7.704 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 1106138

Ion	Ratio	Lower	Upper
58	100		
43	165.3	118.6	220.2
100	19.3	13.0	24.2

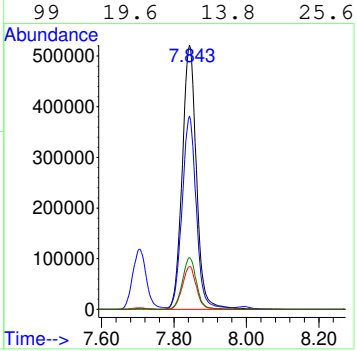


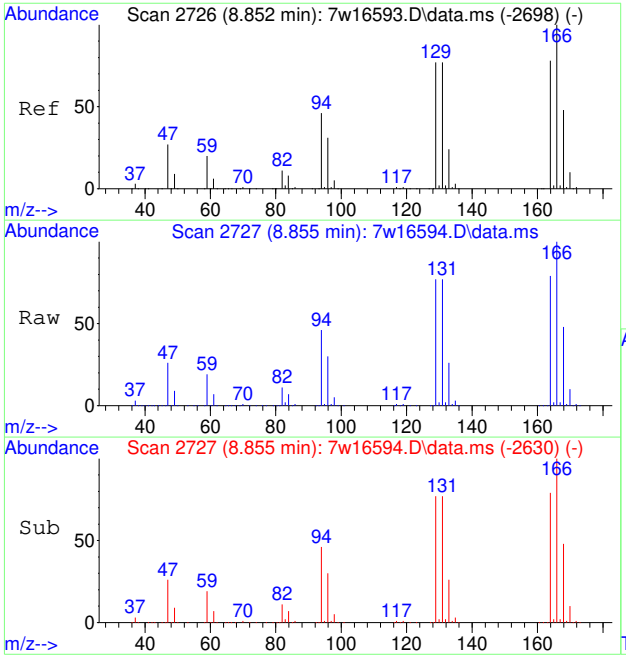


#71
ETHYL METHACRYLATE
Concen: 64.21 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 1420765

Ion	Ratio	Lower	Upper
69	100		
41	73.2	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

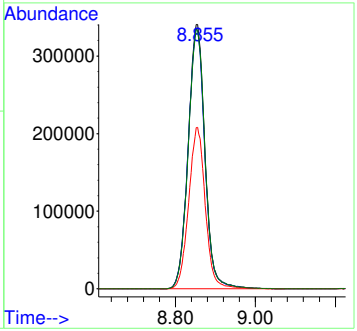


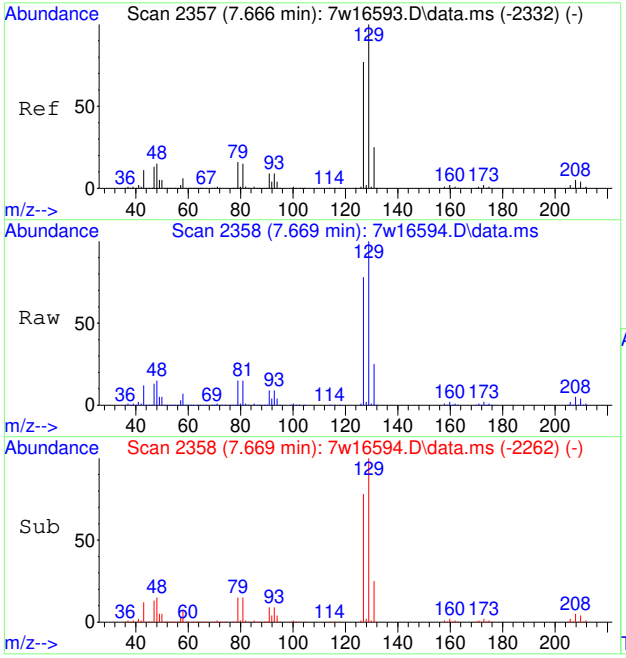


#72
TETRACHLOROETHENE
Concen: 64.80 PPBV
RT: 8.855 min Scan# 2727
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:164 Resp: 995678

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.4	69.4	129.0

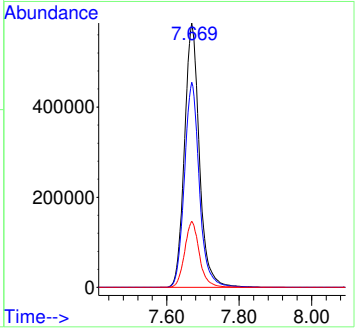


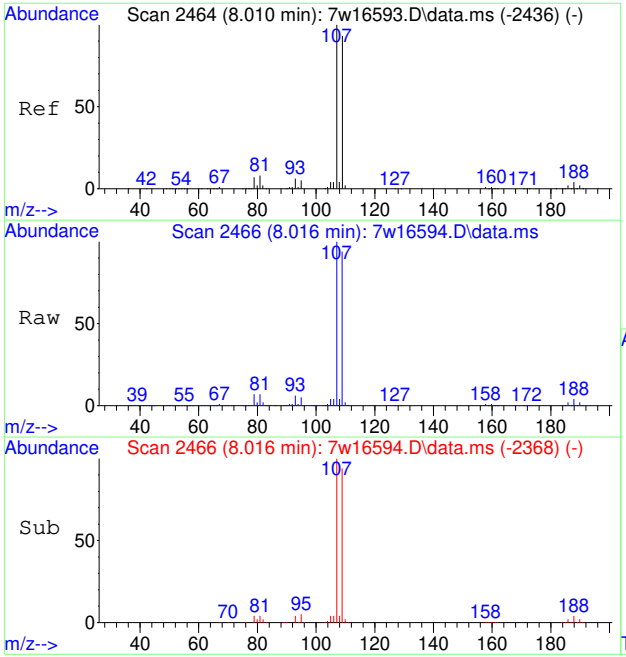


#73
DIBROMOCHLOROMETHANE
Concen: 69.22 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:129 Resp: 1671777

Ion	Ratio	Lower	Upper
129	100		
127	78.0	54.7	101.7
131	24.9	17.4	32.4

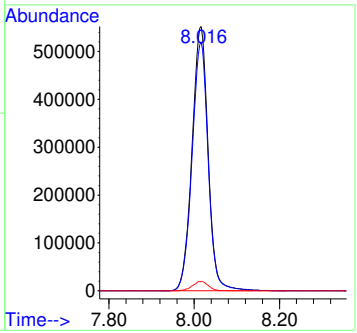


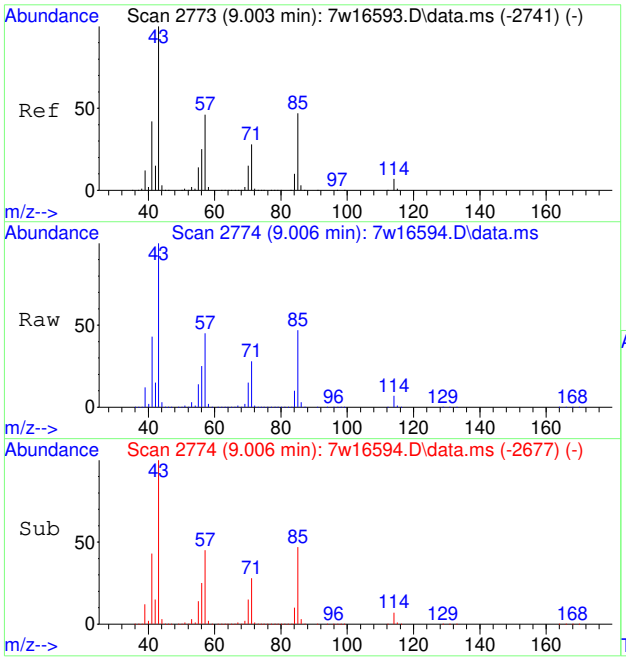


#74
1,2-DIBROMOETHANE
Concen: 66.89 PPBV
RT: 8.016 min Scan# 2466
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:107 Resp: 1452027

Ion	Ratio	Lower	Upper
107	100		
109	94.3	66.1	122.8
188	3.5	2.5	4.6

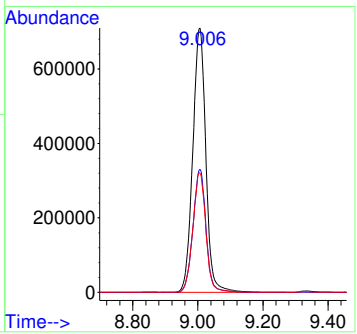


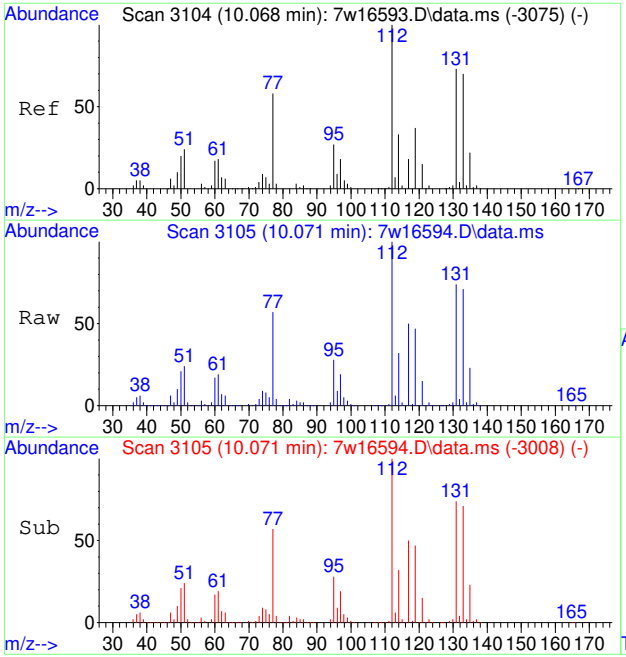


#75
OCTANE
Concen: 62.35 PPBV
RT: 9.006 min Scan# 2774
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1982903

Ion	Ratio	Lower	Upper
43	100		
85	46.5	31.8	59.0
57	45.3	31.4	58.2

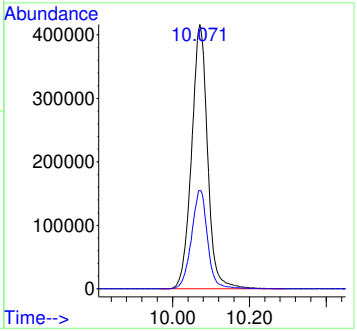


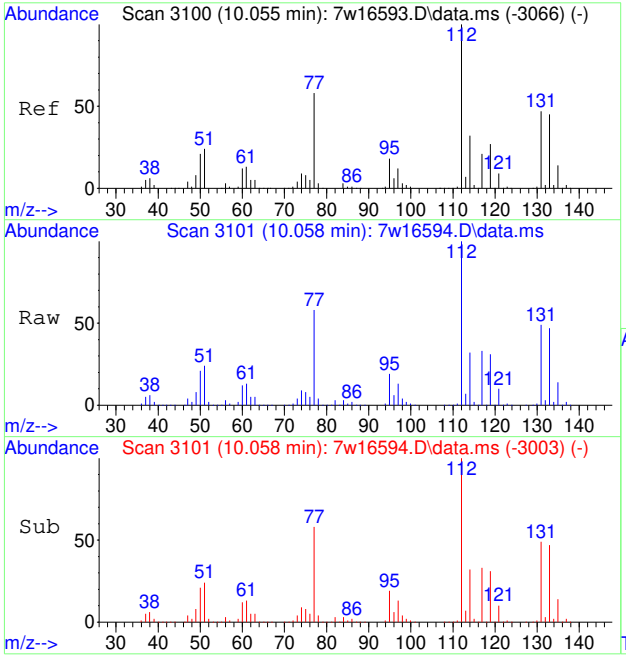


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 69.43 PPBV
RT: 10.071 min Scan# 3105
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:131 Resp: 1205798

Ion	Ratio	Lower	Upper
131	100		
95	37.5	26.5	49.1

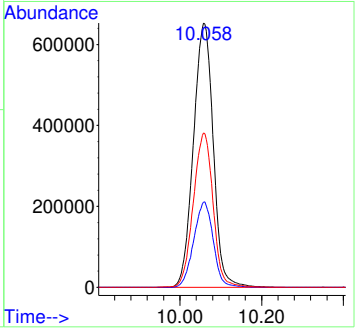


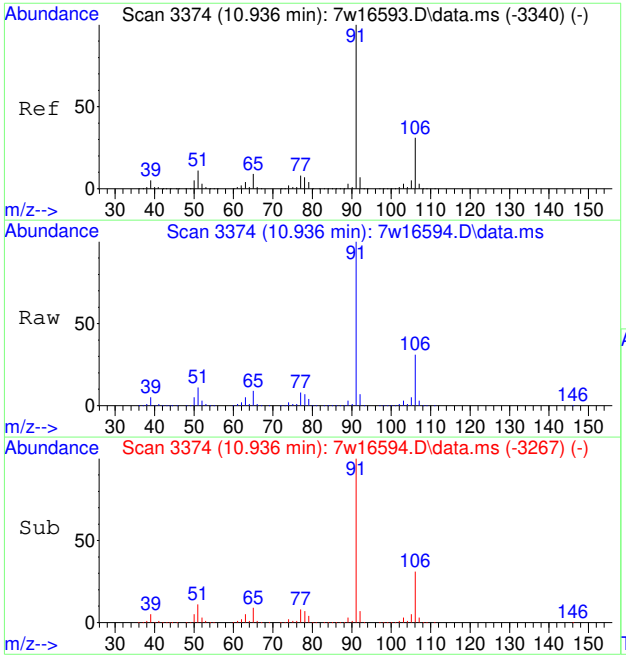


#78
CHLOROBENZENE
Concen: 66.36 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:112 Resp: 2204542

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.7
77	58.5	42.1	78.1

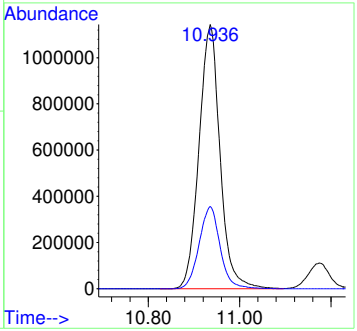


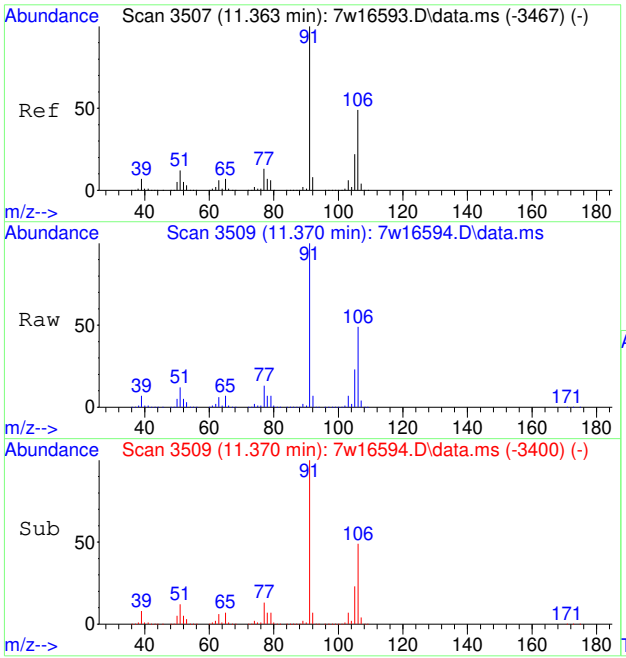


#79
ETHYLBENZENE
Concen: 67.08 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3650660

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

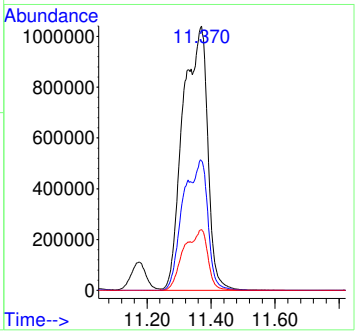


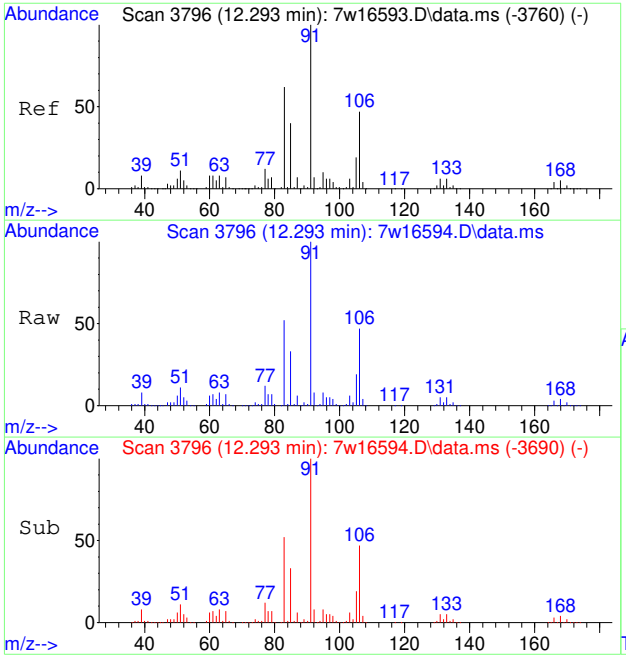


#80
M,P-XYLENE
Concen: 125.67 PPBV
RT: 11.370 min Scan# 3509
Delta R.T. 0.020 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 5556486

Ion	Ratio	Lower	Upper
91	100		
106	49.6	0.0	56.1
105	22.5	0.0	42.1

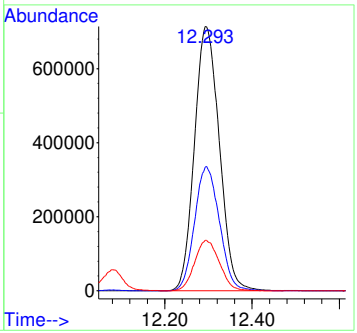


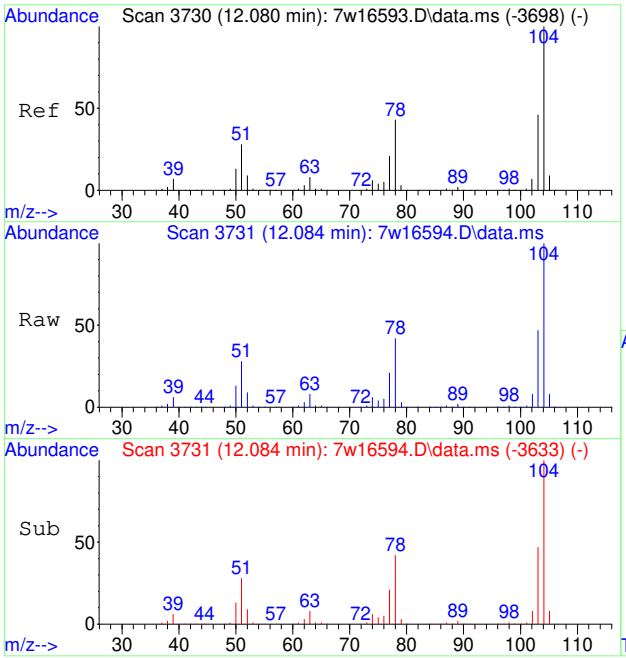


#81
O-XYLENE
Concen: 66.28 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2839567

Ion	Ratio	Lower	Upper
91	100		
106	46.7	31.8	59.0
105	19.1	13.0	24.2

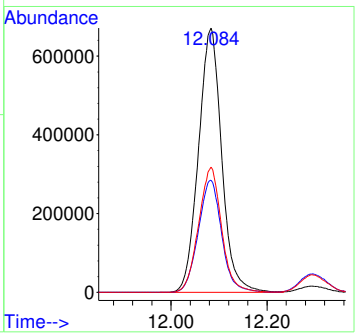


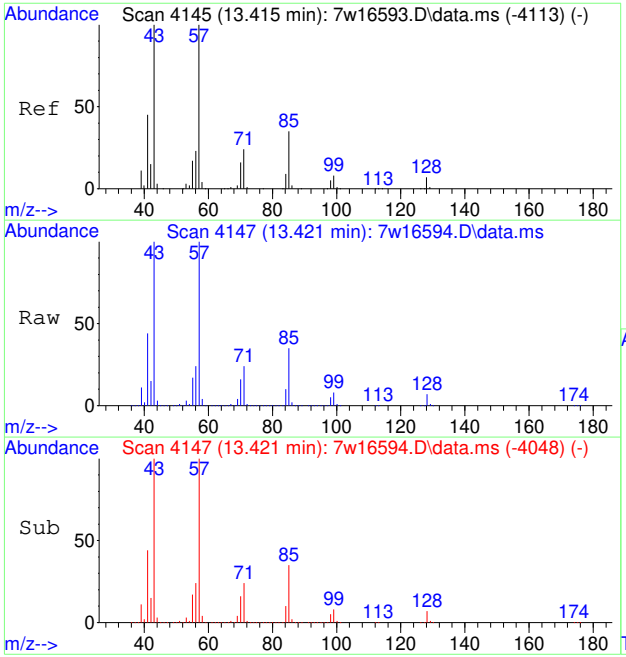


#82
STYRENE
Concen: 70.41 PPBV
RT: 12.084 min Scan# 3731
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:104 Resp: 2245416

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

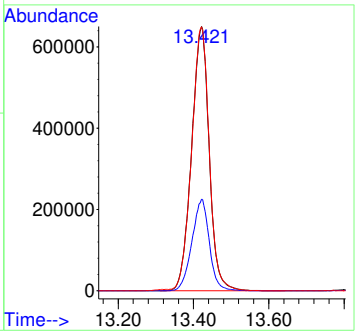


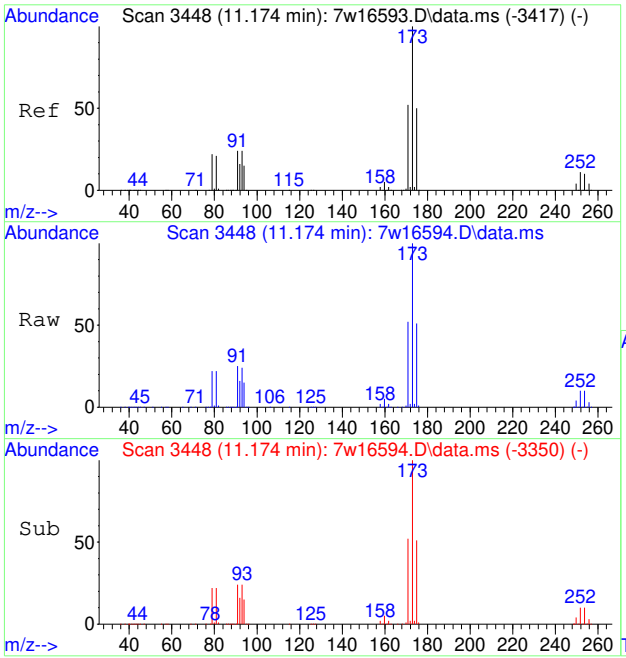


#83
NONANE
Concen: 63.10 PPBV
RT: 13.421 min Scan# 4147
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 2110946

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.8	69.2	128.6

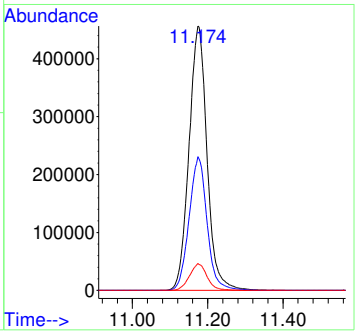


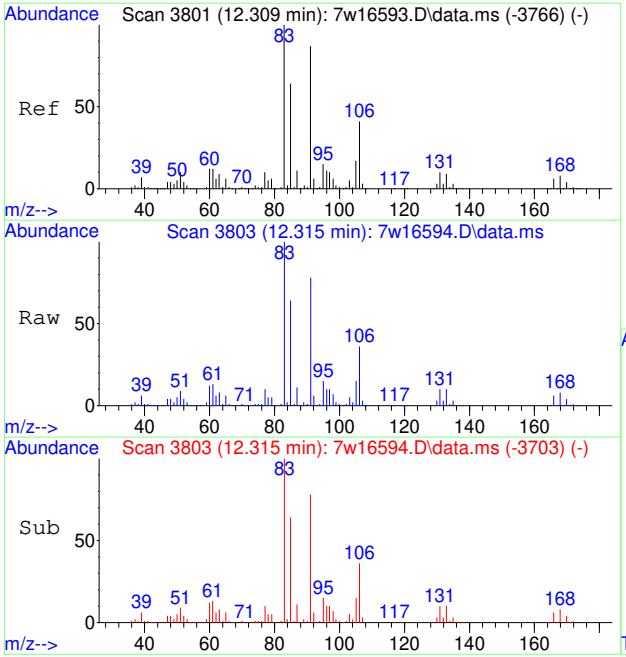


#84
BROMOFORM
Concen: 75.01 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:173 Resp: 1514711

Ion	Ratio	Lower	Upper
173	100		
175	50.3	35.1	65.1
254	9.9	6.7	12.5

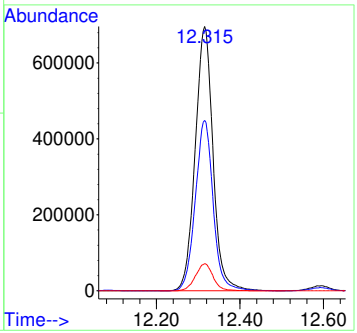


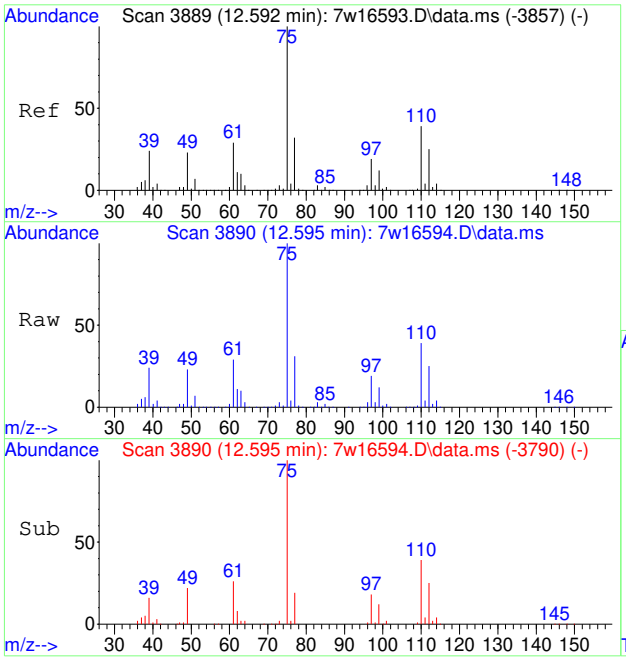


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 67.37 PPBV
RT: 12.315 min Scan# 3803
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 2064226

Ion	Ratio	Lower	Upper
83	100		
85	64.6	45.5	84.5
131	10.3	7.3	13.5

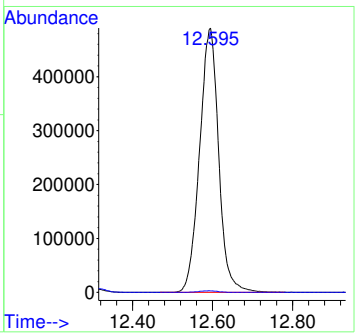


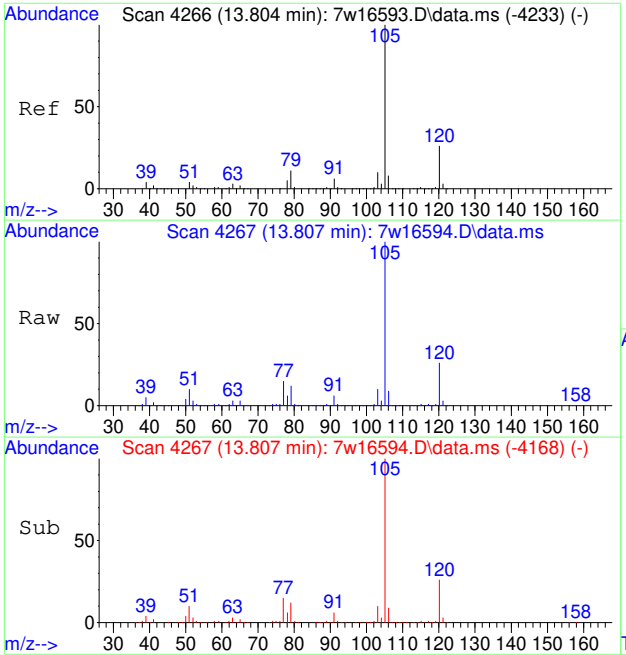


#86
1,2,3-TRICHLOROPROPANE
Concen: 67.69 PPBV
RT: 12.595 min Scan# 3890
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1624746

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

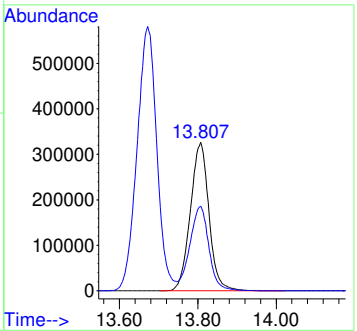


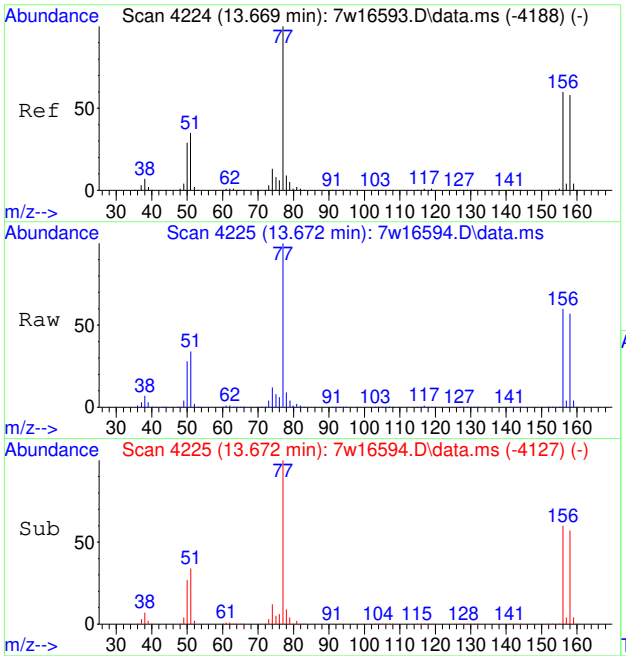


#88
ISOPROPYLBENZENE
Concen: 65.98 PPBV
RT: 13.807 min Scan# 4267
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1073063

Ion	Ratio	Lower	Upper
120	100		
77	58.2	42.5	78.9

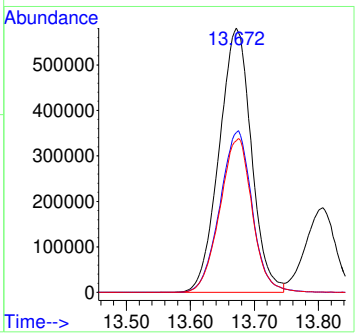


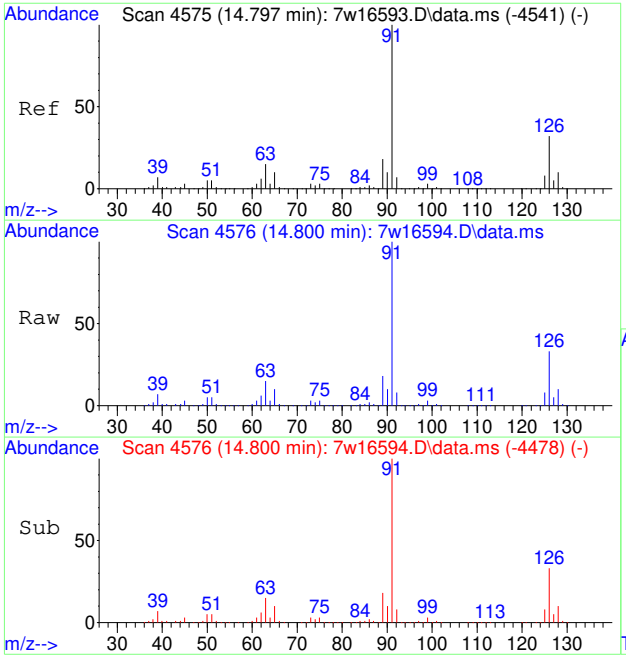


#89
BROMOBENZENE
Concen: 65.06 PPBV
RT: 13.672 min Scan# 4225
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 77 Resp: 2035109

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	58.7	40.9	76.0

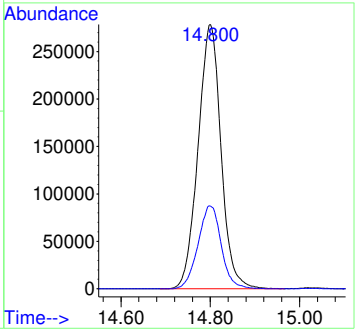


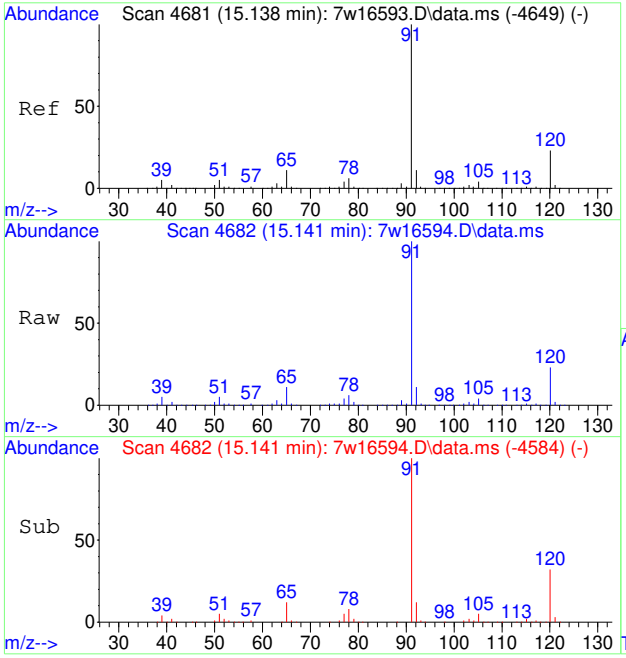


#90
2-CHLOROTOLUENE
Concen: 65.73 PPBV
RT: 14.800 min Scan# 4576
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:126 Resp: 993540

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.5	41.7

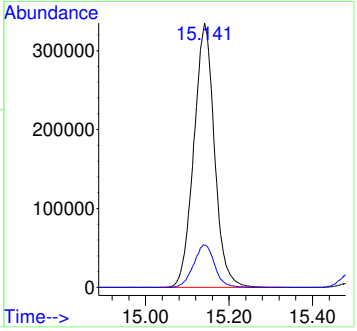


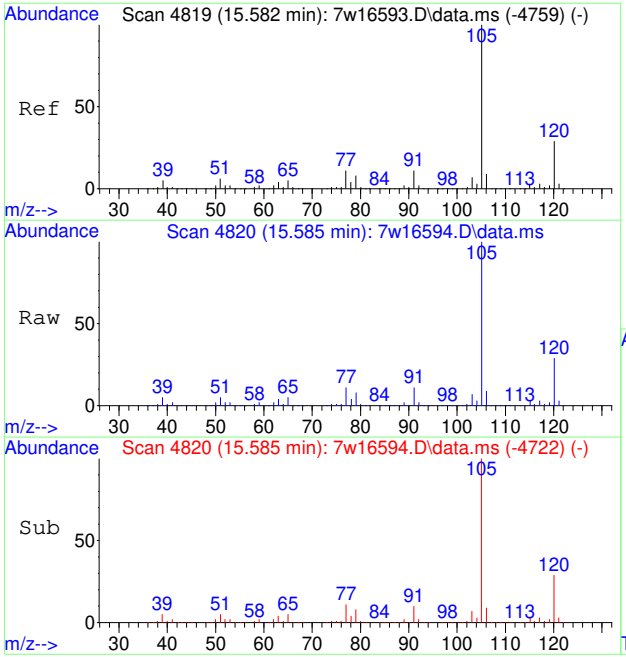


#91
N-PROPYLBENZENE
Concen: 66.71 PPBV
RT: 15.141 min Scan# 4682
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1146895

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

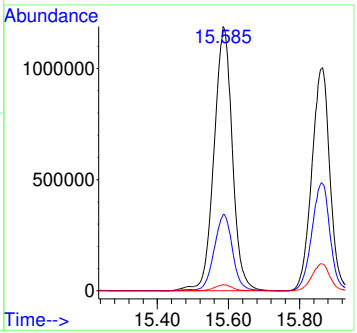


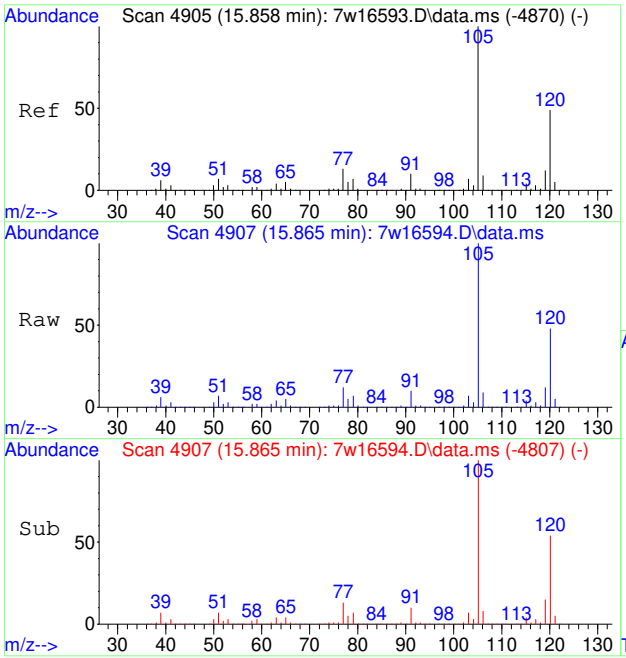


#92
4-ETHYLTOLUENE
Concen: 66.89 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 4258764

Ion	Ratio	Lower	Upper
105	100		
120	29.1	20.7	38.5
119	2.2	1.6	3.0

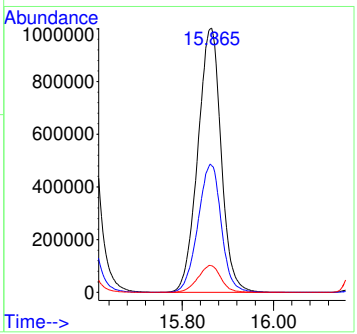


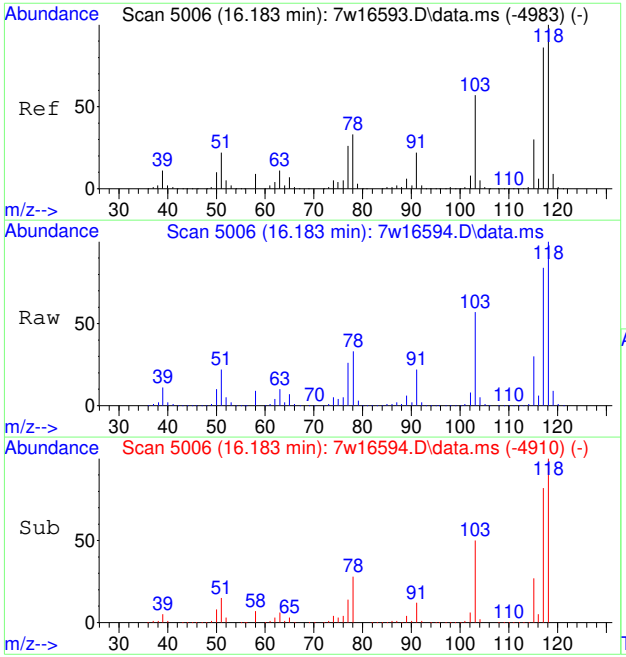


#93
1,3,5-TRIMETHYLBENZENE
Concen: 66.72 PPBV
RT: 15.865 min Scan# 4907
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3539586

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

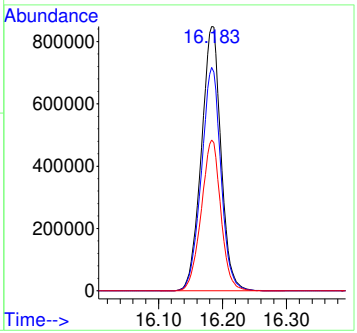


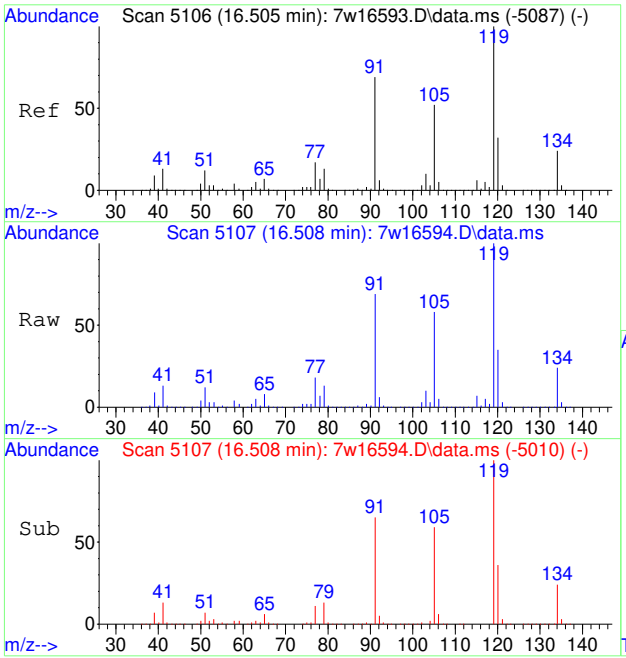


#94
ALPHA-METHYLSTYRENE
Concen: 68.96 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:118 Resp: 1802748

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.9	40.3	74.9

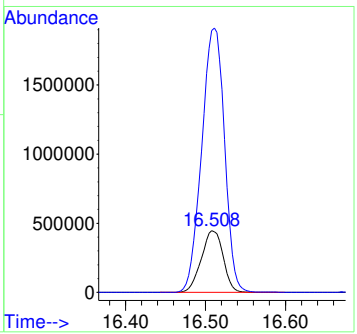


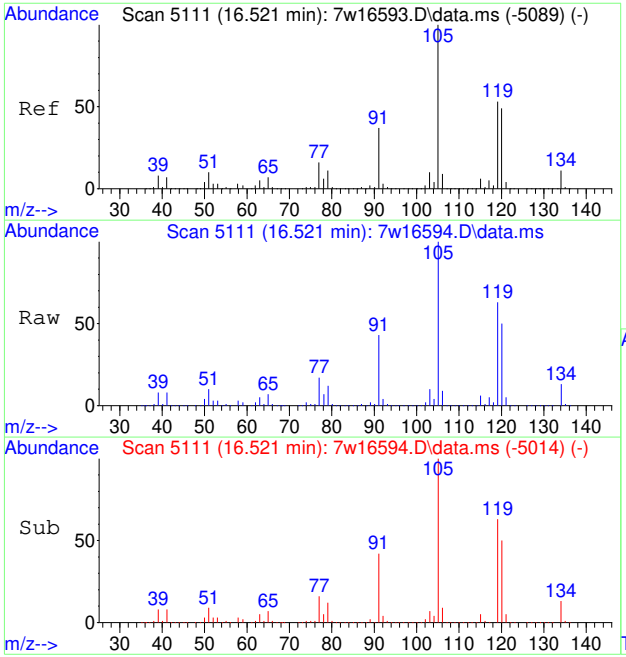


#95
TERT-BUTYLBENZENE
Concen: 65.41 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 849405

Ion	Ratio	Lower	Upper
134	100		
119	445.9	311.3	578.1

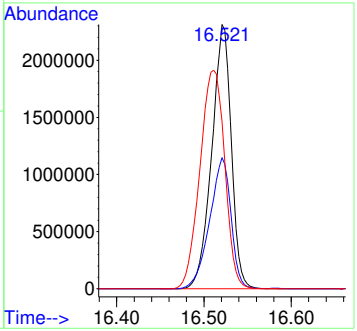


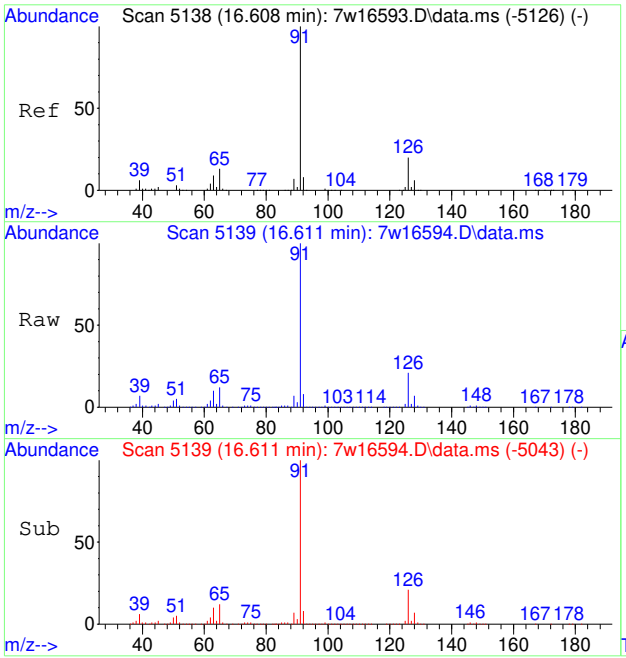


#96
1,2,4-TRIMETHYLBENZENE
Concen: 68.48 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3598939

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

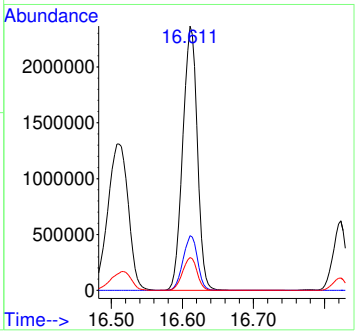


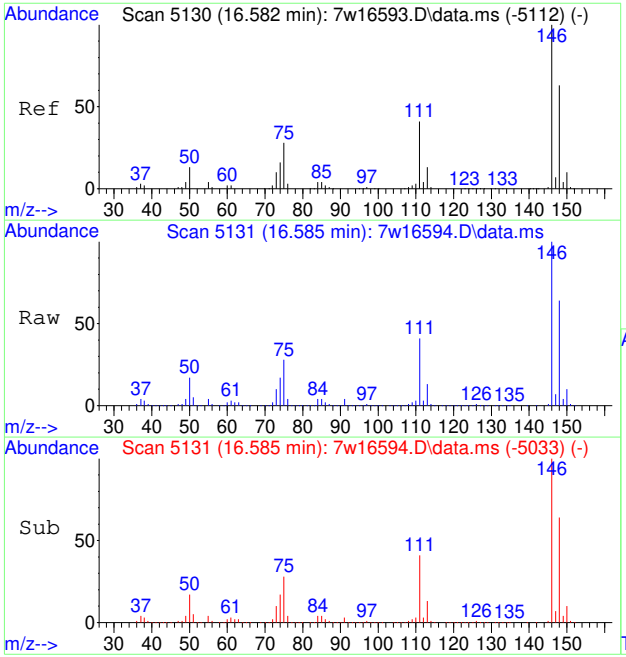


#97
BENZYL CHLORIDE
Concen: 81.19 PPBV
RT: 16.611 min Scan# 5139
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3366305

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.5	9.2	17.0

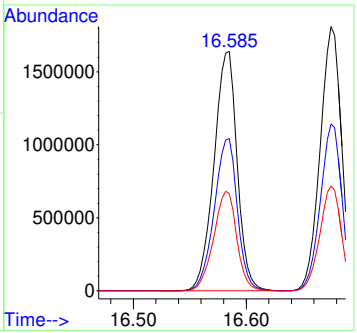


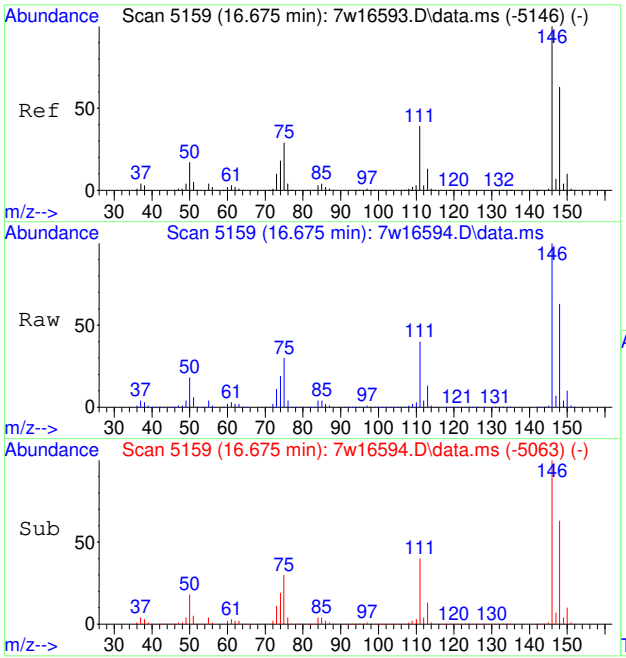


#98
M-DICHLOROBENZENE
Concen: 64.53 PPBV
RT: 16.585 min Scan# 5131
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2335430

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.6	82.8
111	41.4	29.3	54.3

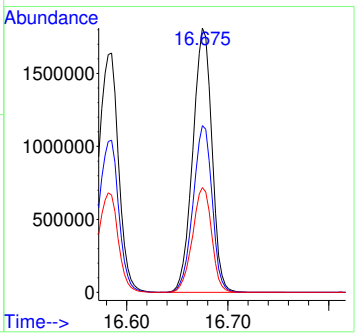


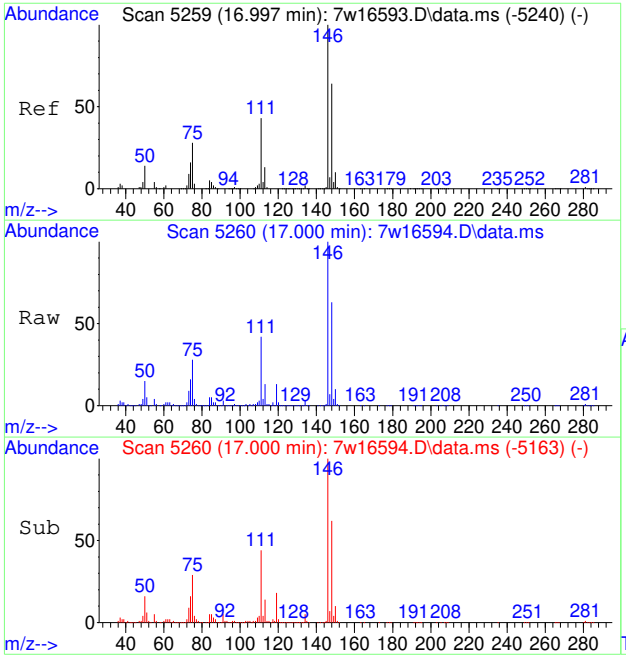


#99
P-DICHLOROBENZENE
Concen: 66.58 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2373563

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	39.9	28.0	52.0

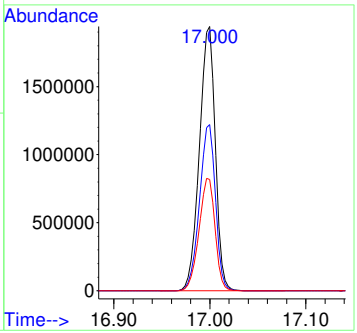


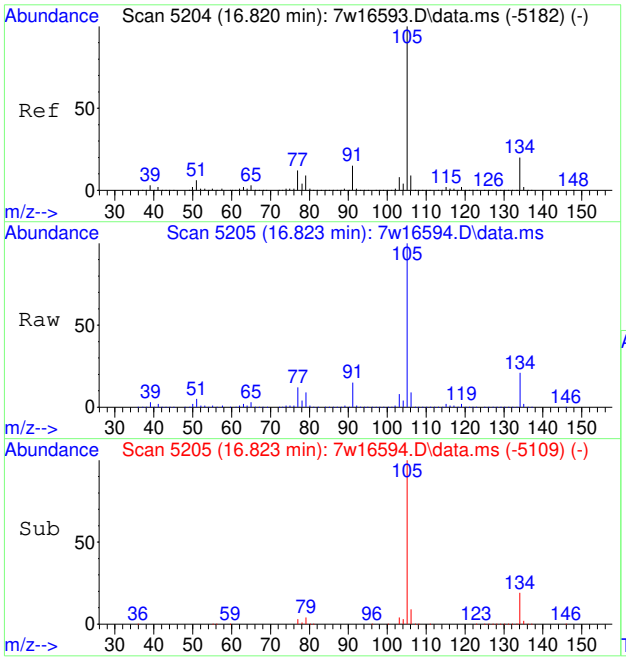


#100
O-DICHLOROBENZENE
Concen: 66.71 PPBV
RT: 17.000 min Scan# 5260
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2236033

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

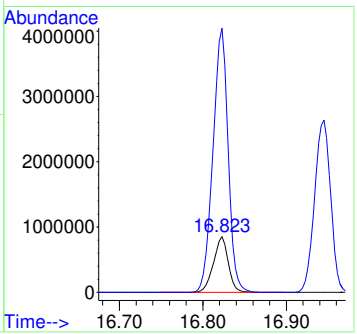


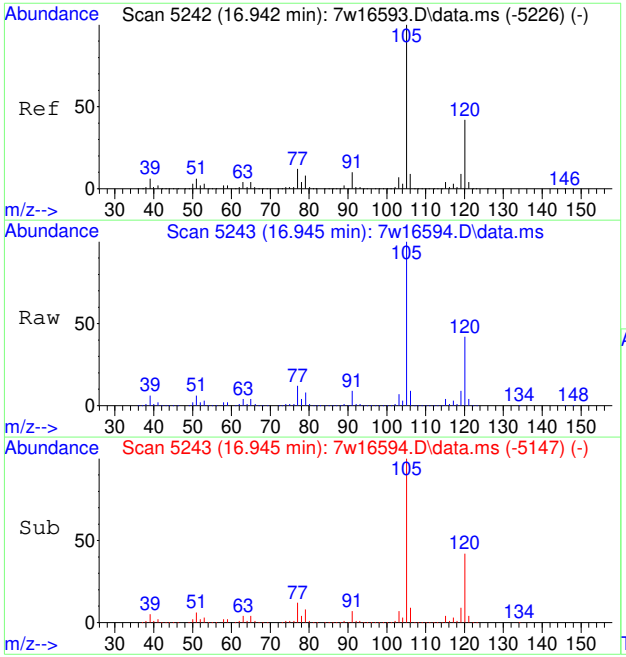


#101
SEC-BUTYLBENZENE
Concen: 67.84 PPBV
RT: 16.823 min Scan# 5205
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1046061

Ion	Ratio	Lower	Upper
134	100		
105	488.3	344.8	640.3

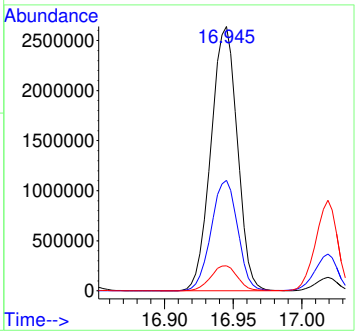


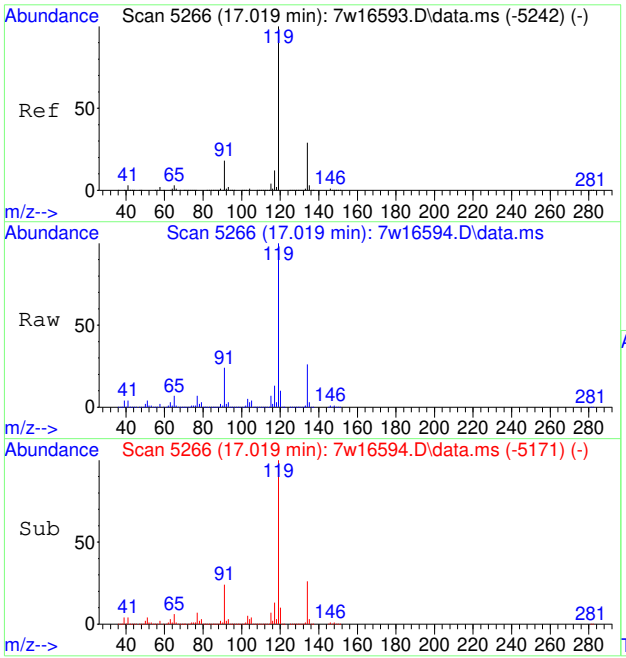


#102
1,2,3-TRIMETHYLBENZENE
Concen: 66.96 PPBV
RT: 16.945 min Scan# 5243
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3529094

Ion	Ratio	Lower	Upper
105	100		
120	42.1	29.3	54.3
91	9.7	7.0	13.0

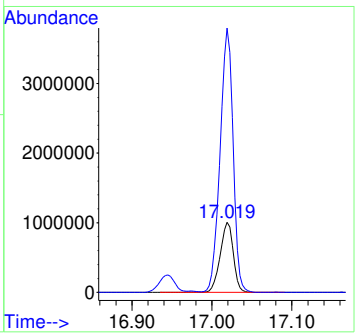


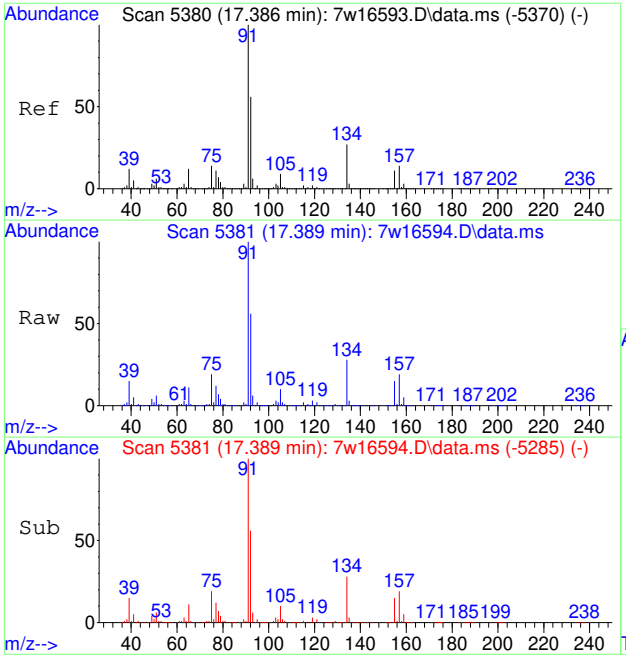


#103
P-ISOPROPYLTOLUENE
Concen: 66.86 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1145439

Ion	Ratio	Lower	Upper
134	100		
119	373.3	261.4	485.4

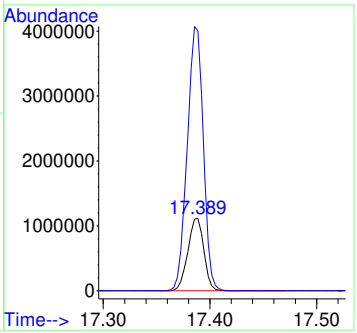


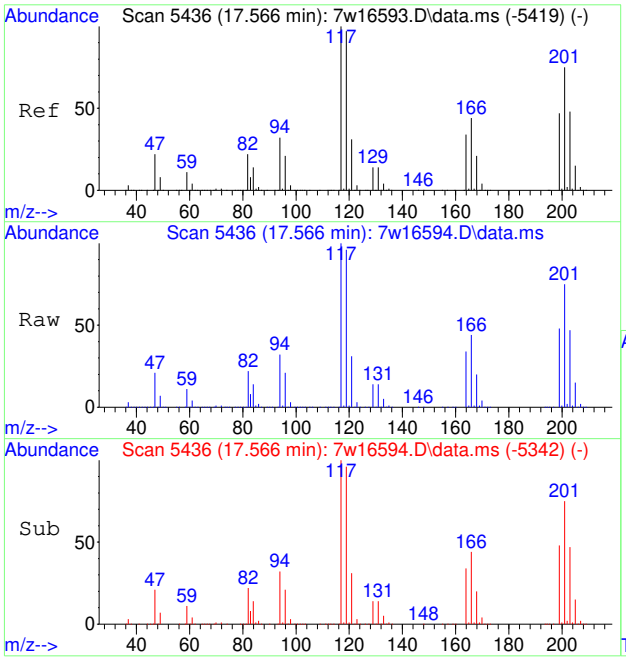


#104
N-BUTYLBENZENE
Concen: 71.38 PPBV
RT: 17.389 min Scan# 5381
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1159070

Ion	Ratio	Lower	Upper
134	100		
91	367.1	261.0	484.8

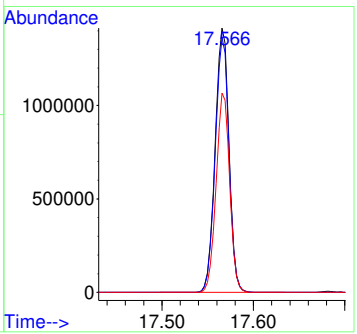


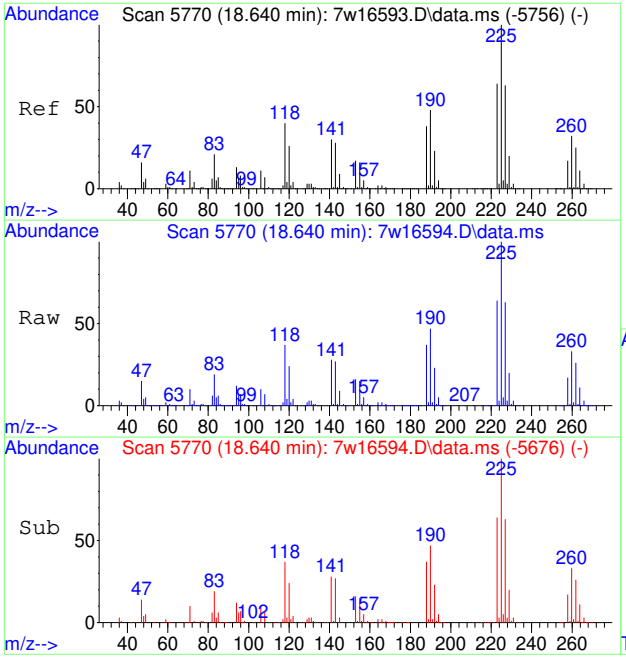


#105
HEXACHLOROETHANE
Concen: 74.98 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1491790

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	74.0	49.8	92.6

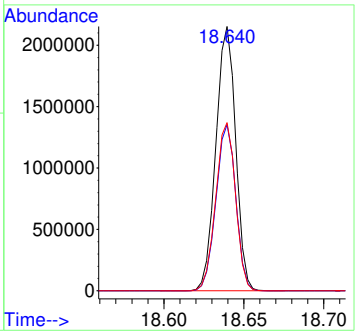


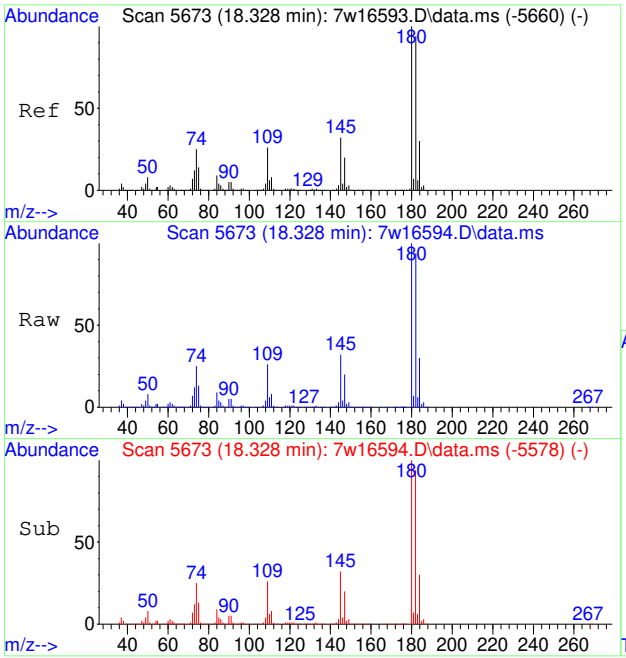


#106
HEXACHLOROBUTADIENE
Concen: 78.27 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:225 Resp: 1851997

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.6	82.8
223	63.8	44.6	82.8

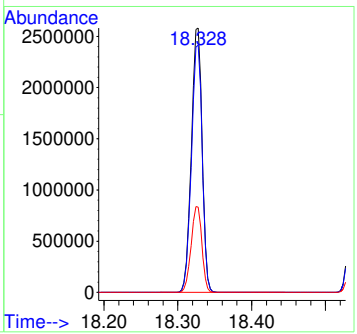


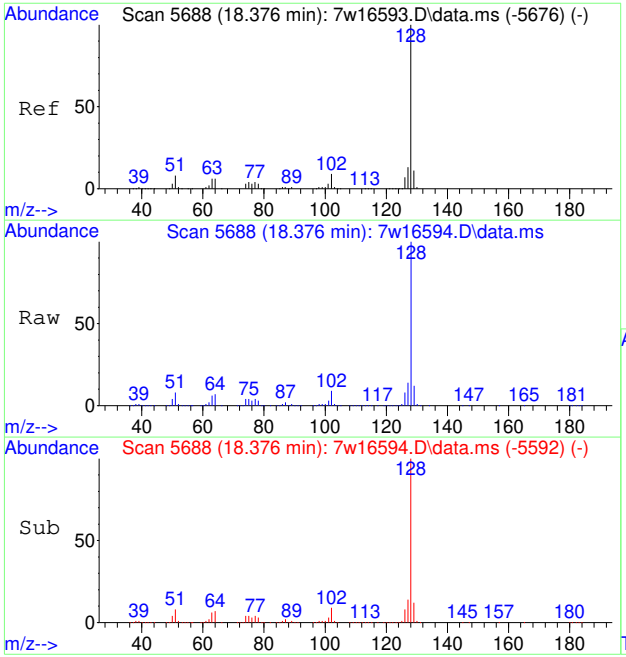


#107
1,2,4-TRICHLOROBENZENE
Concen: 93.58 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:180 Resp: 2599589

Ion	Ratio	Lower	Upper
180	100		
182	94.0	66.6	123.6
145	32.6	22.5	41.9

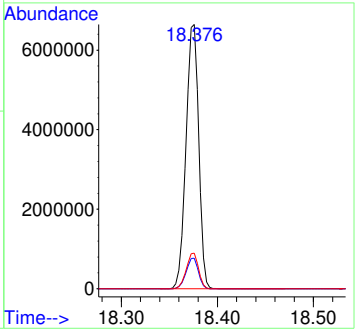


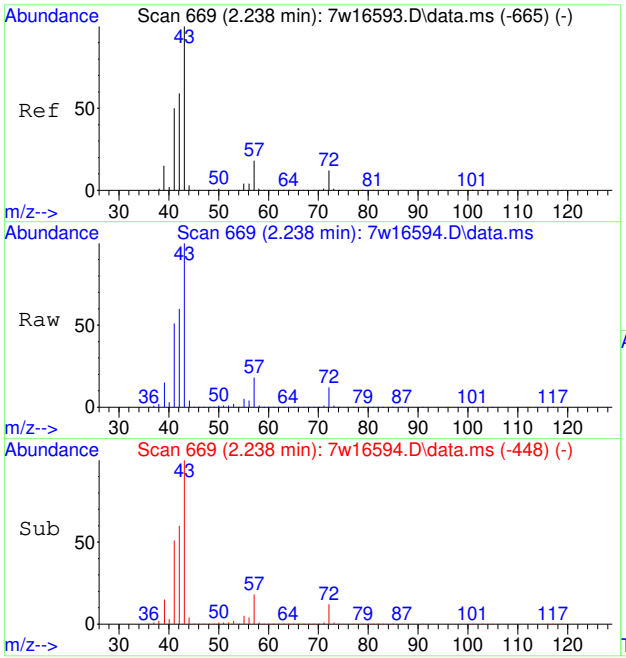


#108
NAPHTHALENE
Concen: 98.65 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:128 Resp: 6111699

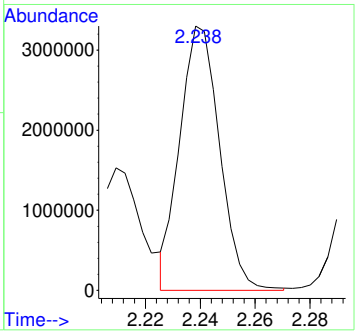
Ion	Ratio	Lower	Upper
128	100		
129	11.3	7.5	13.9
127	13.1	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 53.84 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:TIC Resp: 3312203



Manual Integration Approval Summary

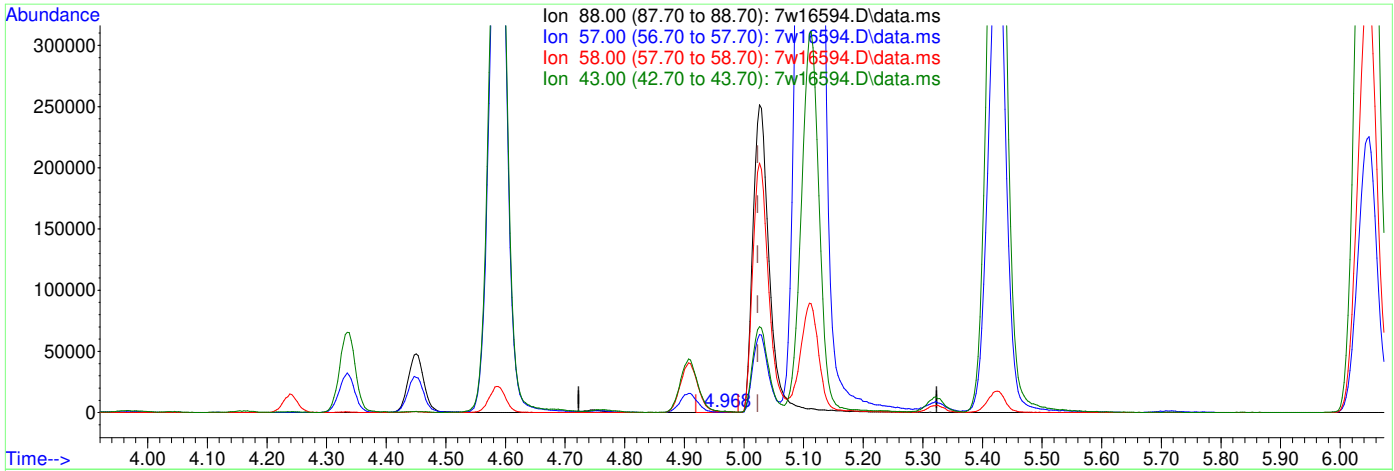
Sample Number: V7W577-IC577
Lab FileID: 7W16594.D
Injection Time: 08/07/25 16:02
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

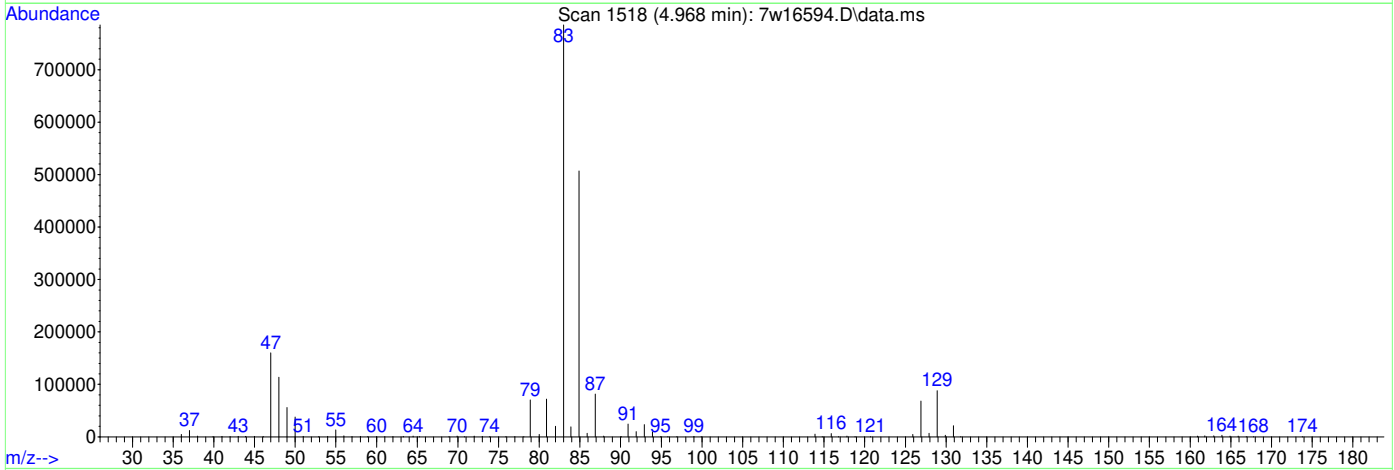
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.03	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

4.968min (-0.055) 0.23PPBV

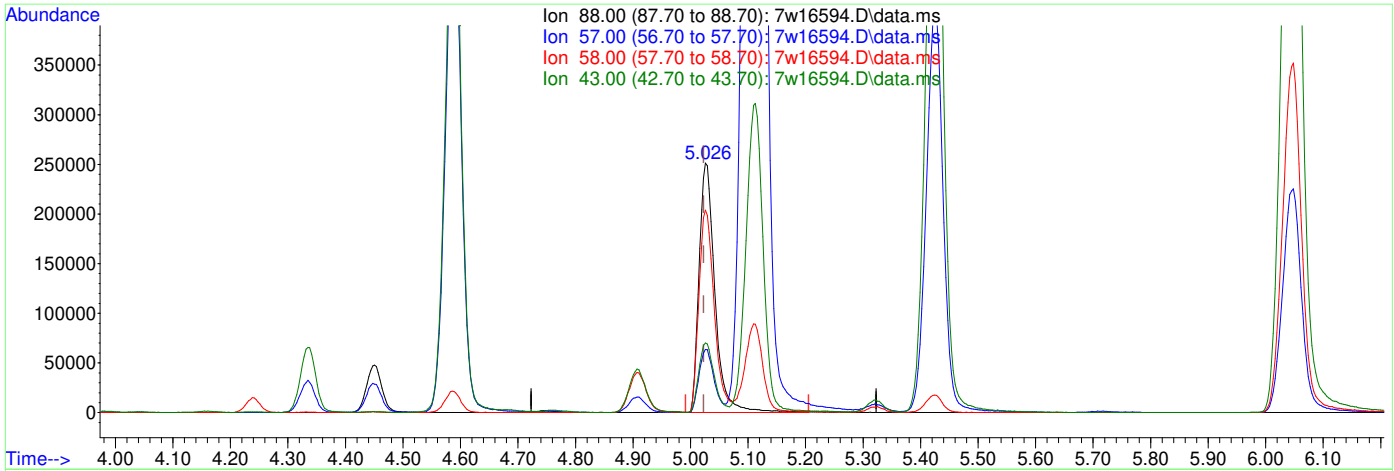
response 1814

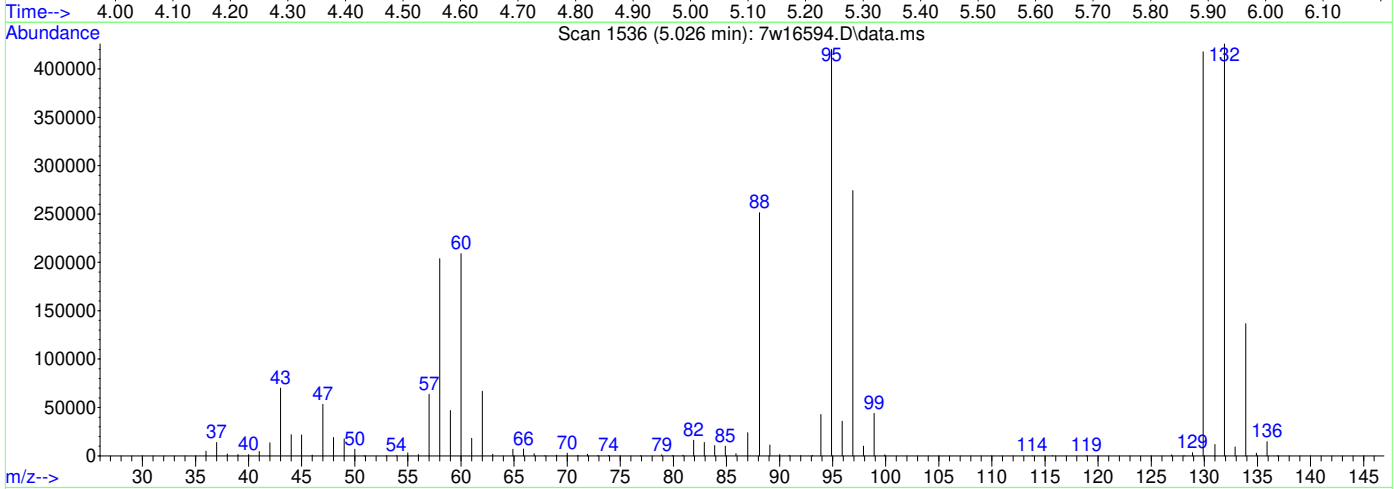
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

5.026min (+0.003) 61.98PPBV m

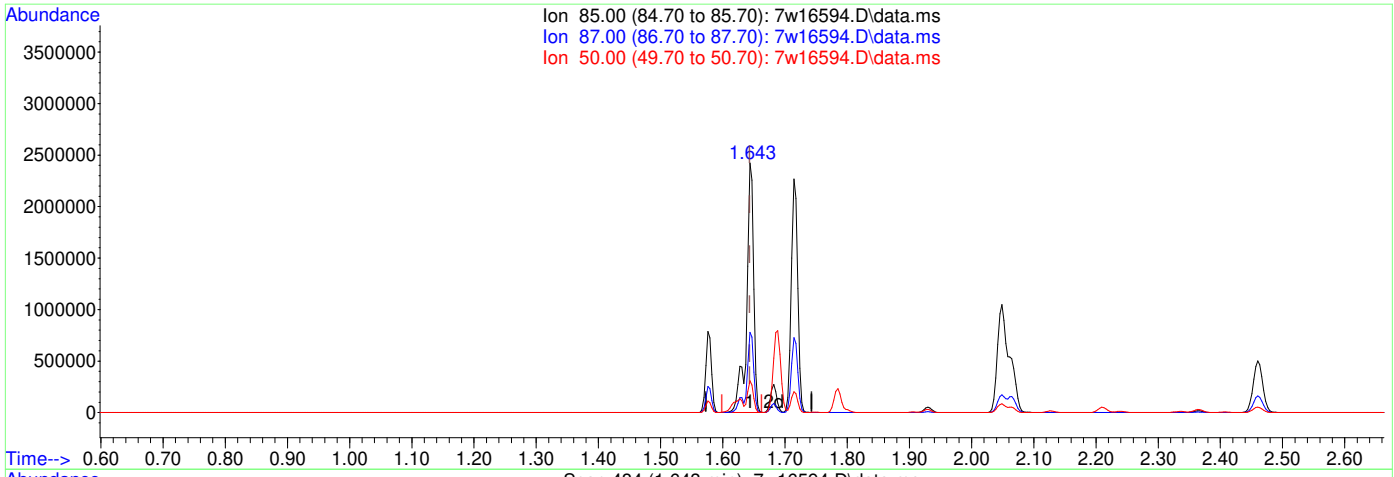
response 483214

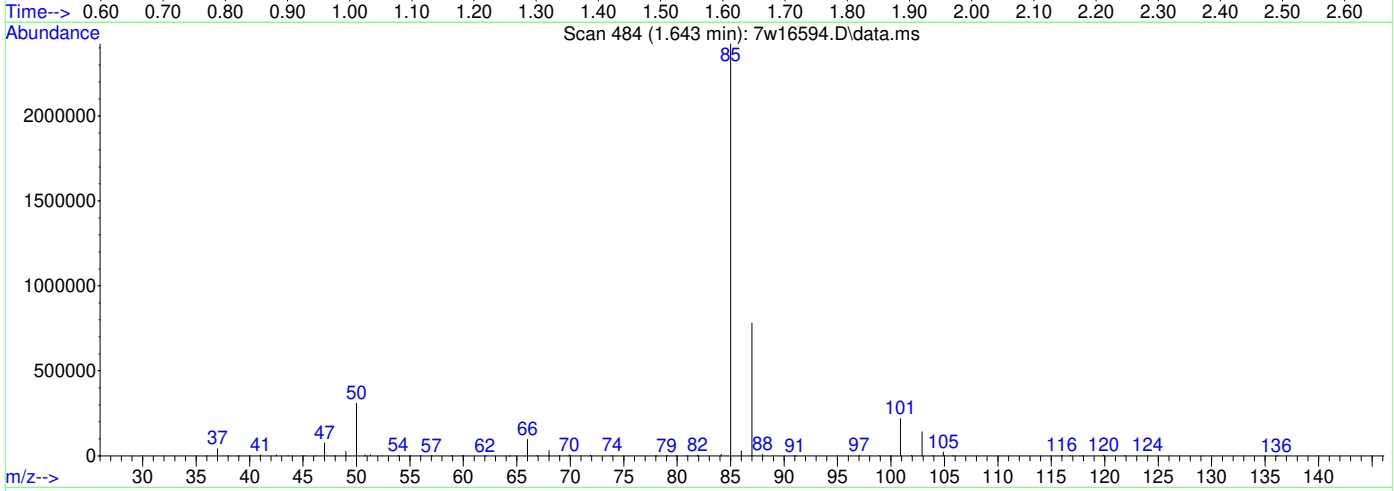
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 62.42PPBV

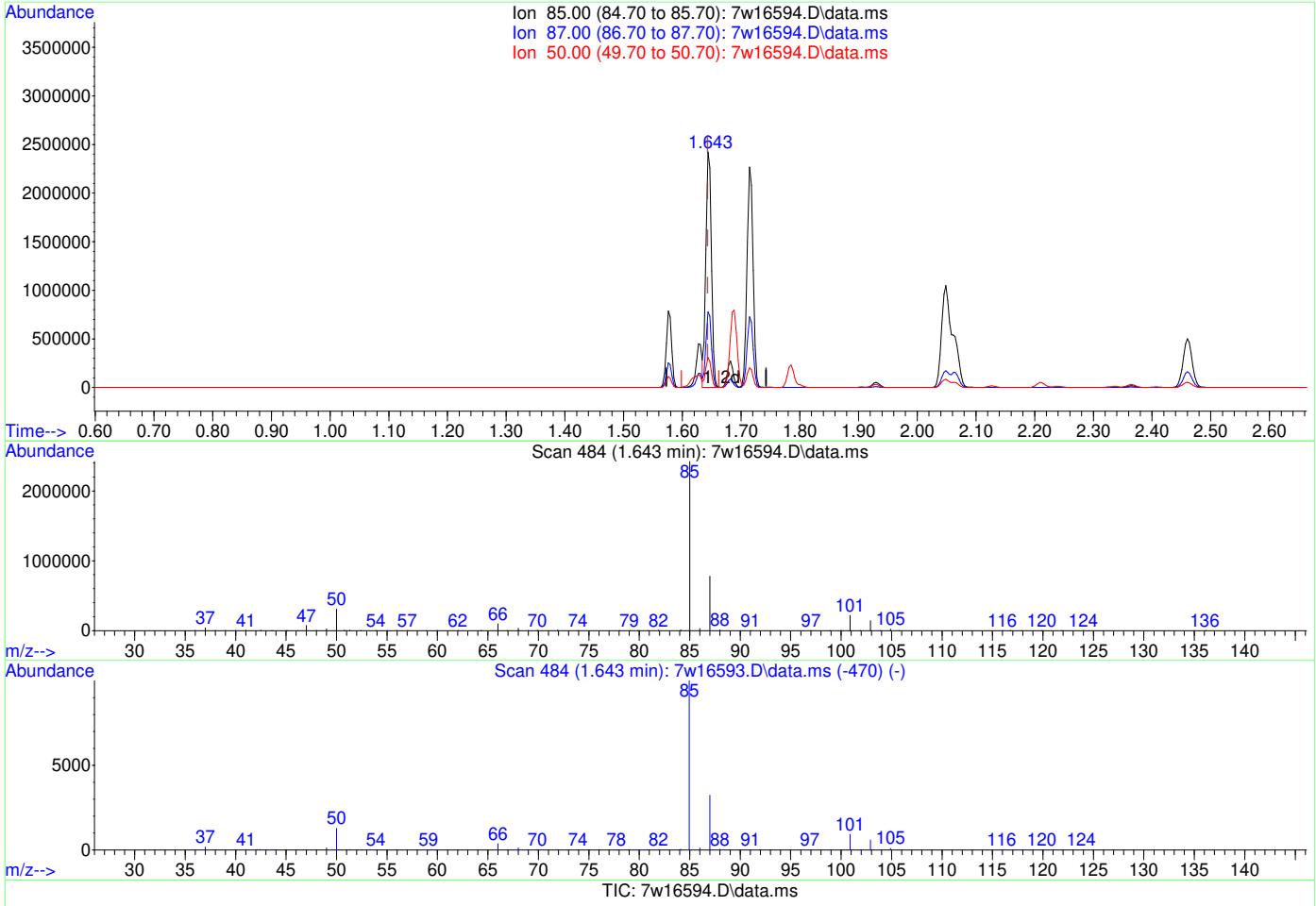
response 1902131

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.33
50.00	19.30	18.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration



TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 52.05PPBV m

response 1586079

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	22.28
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	108383	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	546930	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	500783	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	108383	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	408741	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	140448	10.68	PPBV		100
3) FREON 152A	1.608	65	69502	10.25	PPBV		99
4) CHLORODIFLUOROMETHANE	1.618	67	32765	11.13	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	152723	10.78	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	300519m	11.58	PPBV		
7) PROPYLENE	1.628	41	90576	10.32	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	252062	10.91	PPBV		100
9) FREON 114	1.718	85	303615	11.35	PPBV		100
10) CHLOROMETHANE	1.689	52	40254	10.81	PPBV		98
11) VINYL CHLORIDE	1.750	62	140045	10.62	PPBV		99
12) 1,3-BUTADIENE	1.785	54	109649	10.53	PPBV		99
13) N-BUTANE	1.801	43	194903	11.06	PPBV		100
14) BROMOMETHANE	1.859	94	110308	10.79	PPBV		99
15) CHLOROETHANE	1.907	64	72483	10.13	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	268652	10.84	PPBV		99
17) ACETONITRILE	1.997	41	115239	9.36	PPBV		99
18) ACROLEIN	2.036	56	62655	10.71	PPBV		98
19) FREON 123	2.049	83	270679	10.84	PPBV		99
20) FREON 123A	2.065	117	148778	10.06	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.129	101	311135	11.04	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	290247	12.15	PPBV		99
23) ACETONE	2.071	58	70408	10.78	PPBV		100
24) PENTANE	2.242	42	134988	10.43	PPBV		100
25) IODOMETHANE	2.303	142	287484	11.08	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	117061	10.89	PPBV		99
27) CARBON DISULFIDE	2.464	76	316603	10.38	PPBV		98
28) ETHANOL	1.933	45	64897	10.20	PPBV		100
29) BROMOETHENE	2.004	106	107141	10.44	PPBV		99
30) ACRYLONITRILE	2.209	52	100564	10.95	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	108156	10.27	PPBV		97
32) 3-CHLOROPROPENE	2.409	76	60492	10.52	PPBV		99
33) FREON 113	2.460	151	185131	11.44	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	2.689	96	122177	10.33	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.338	59	321878	10.78	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	372091	11.06	PPBV		100
37) TETRAHYDROFURAN	3.467	72	61873	11.34	PPBV		99
38) HEXANE	3.242	57	241359	10.65	PPBV		100
39) VINYL ACETATE	2.827	86	34923	10.80	PPBV		97
40) 1,1-DICHLOROETHANE	2.759	63	247364	10.82	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	65125	10.54	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	133909	10.92	PPBV		100
43) DIISOPROPYL ETHER	3.245	59	71425	11.12	PPBV		96
44) ETHYL ACETATE	3.248	61	46105	10.62	PPBV		90
45) METHYL ACRYLATE	3.235	55	298658	10.90	PPBV	#	100
46) CHLOROFORM	3.261	83	268569	11.35	PPBV		100
47) 2,4-DIMETHYLPENTANE	3.743	57	287870	11.35	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279200	11.20	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	286618	11.10	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	205457	11.17	PPBV	100
51)	BENZENE	4.126	78	392045	10.80	PPBV	100
53)	CYCLOHEXANE	4.335	84	178042	11.13	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.586	71	92136	11.55	PPBV	99
55)	TRICHLOROETHENE	5.013	95	177553	10.41	PPBV	100
56)	1,2-DICHLOROPROPANE	4.782	63	163448	10.84	PPBV	100
57)	DIBROMOMETHANE	4.743	174	150387	10.35	PPBV	99
58)	ETHYL ACRYLATE	4.901	55	376913	11.17	PPBV	99
59)	BROMODICHLOROMETHANE	4.962	83	300258	10.90	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	770282	10.43	PPBV	100
61)	1,4-DIOXANE	5.023	88	94601	11.72	PPBV	98
62)	HEPTANE	5.422	43	261506	10.72	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	152007	11.09	PPBV	99
64)	METHYL ISOBUTYL KETONE	6.039	58	154590	10.57	PPBV	100
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	233811	10.11	PPBV	100
66)	TOLUENE	7.132	91	488543	11.25	PPBV	99
67)	1,3-DICHLOROPROPANE	7.190	76	246988	11.34	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	217661	10.42	PPBV	100
69)	1,1,2-TRICHLOROETHANE	6.766	83	141620	11.44	PPBV	99
70)	2-HEXANONE	7.695	58	209349	10.26	PPBV	99
71)	ETHYL METHACRYLATE	7.830	69	256728	11.23	PPBV	99
72)	TETRACHLOROETHENE	8.846	164	180607	11.40	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.656	129	297263	11.82	PPBV	99
74)	1,2-DIBROMOETHANE	8.000	107	263017	11.75	PPBV	100
75)	OCTANE	8.994	43	371823	11.38	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	217186	12.09	PPBV	100
78)	CHLOROBENZENE	10.042	112	397219	11.61	PPBV	100
79)	ETHYLBENZENE	10.923	91	659125	11.76	PPBV	100
80)	M,P-XYLENE	11.347	91	1021629	22.50	PPBV	99
81)	O-XYLENE	12.280	91	524115	11.89	PPBV	100
82)	STYRENE	12.068	104	383070	11.59	PPBV	100
83)	NONANE	13.402	43	389550	11.35	PPBV	100
84)	BROMOFORM	11.158	173	265221	12.55	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	376337	11.92	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	296228	11.97	PPBV	100
88)	ISOPROPYLBENZENE	13.788	120	196063	11.70	PPBV	100
89)	BROMOBENZENE	13.653	77	368714	11.46	PPBV	99
90)	2-CHLOROTOLUENE	14.785	126	175998	11.26	PPBV	100
91)	N-PROPYLBENZENE	15.122	120	204116	11.48	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	742534	11.28	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	622476	11.36	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.174	118	271625	10.00	PPBV	99
95)	TERT-BUTYLBENZENE	16.498	134	152633	11.43	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	633879	11.67	PPBV	99
97)	BENZYL CHLORIDE	16.598	91	464197	10.58	PPBV	99
98)	M-DICHLOROBENZENE	16.569	146	406824	10.91	PPBV	100
99)	P-DICHLOROBENZENE	16.666	146	408776	11.12	PPBV	100
100)	O-DICHLOROBENZENE	16.987	146	388114	11.22	PPBV	100
101)	SEC-BUTYLBENZENE	16.813	134	187876	11.81	PPBV	100
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	621174	11.41	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.013	134	206409	11.68	PPBV	100
104)	N-BUTYLBENZENE	17.379	134	197029	11.69	PPBV	100
105)	HEXACHLOROETHANE	17.559	117	224249	10.80	PPBV	100
106)	HEXACHLOROBUTADIENE	18.633	225	277087	11.26	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.315	180	362853	12.29	PPBV	100
108)	NAPHTHALENE	18.363	128	837609	12.65	PPBV	99
110)	TVHC as equiv Pentane	2.242	TIC	634578	10.37	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

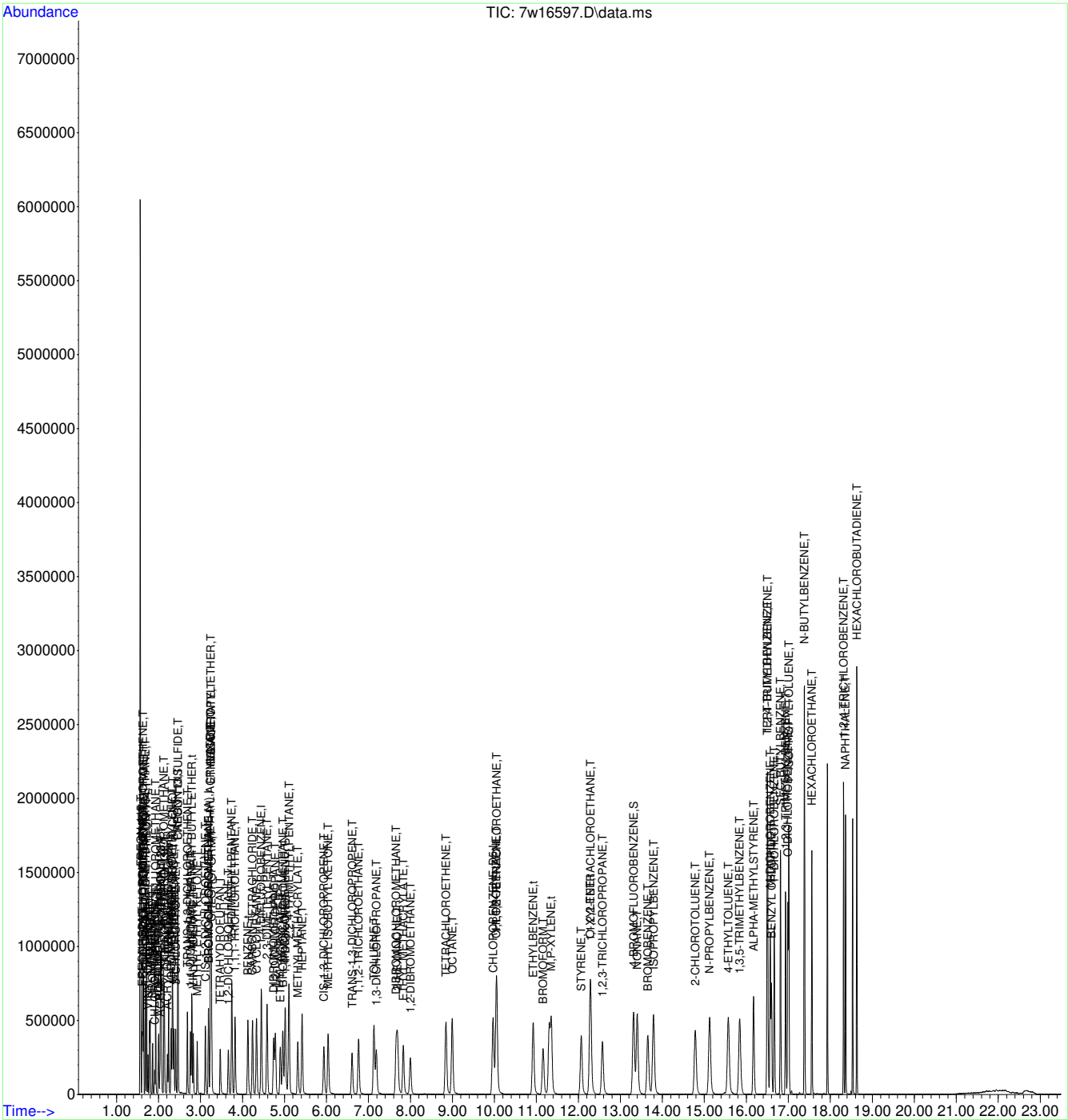
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

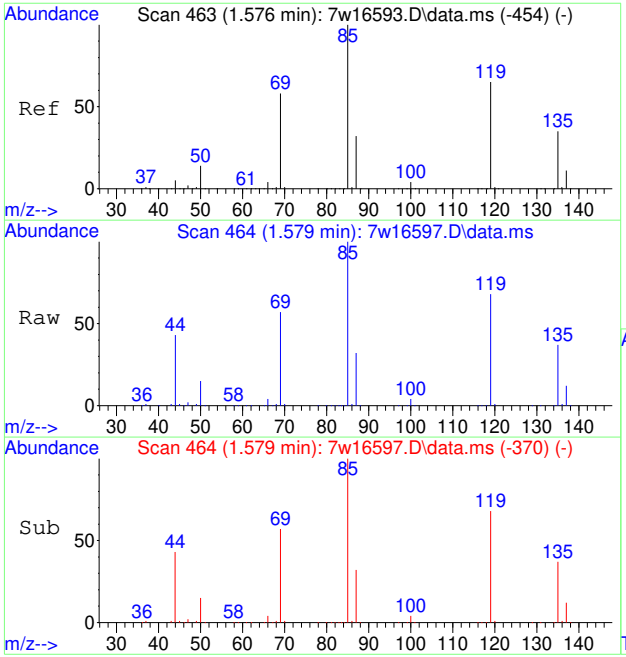
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

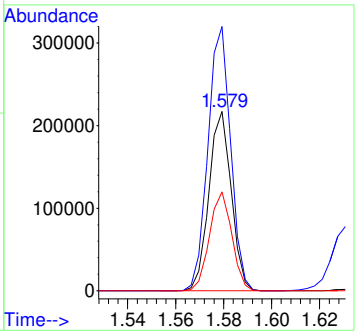


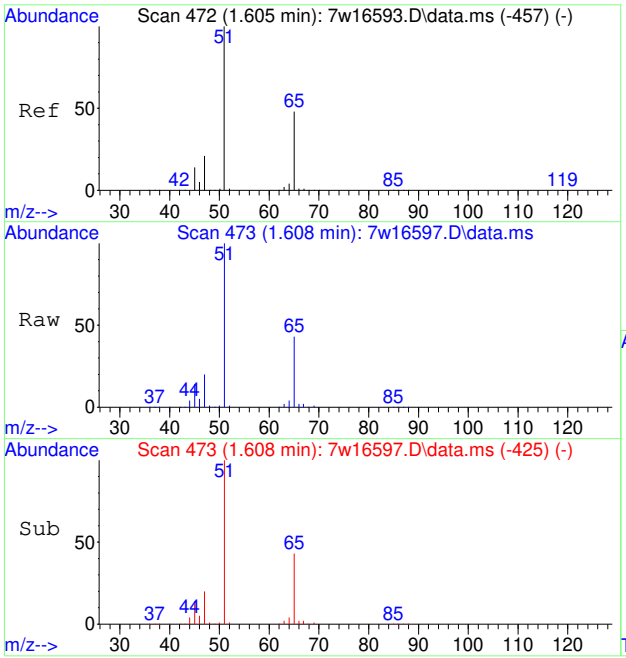


#2
FREON 115
Concen: 10.68 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:119 Resp: 140448

Ion	Ratio	Lower	Upper
119	100		
85	149.3	104.4	193.8
135	55.3	38.6	71.8

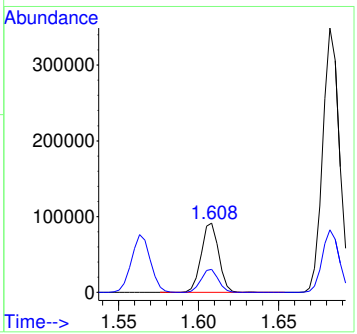


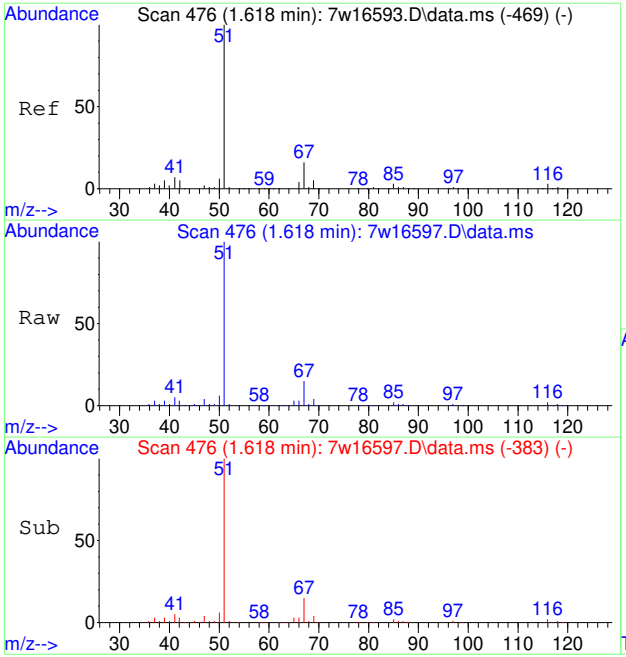


#3
FREON 152A
Concen: 10.25 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 69502

Ion	Ratio	Lower	Upper
65	100		
45	32.5	23.0	42.8

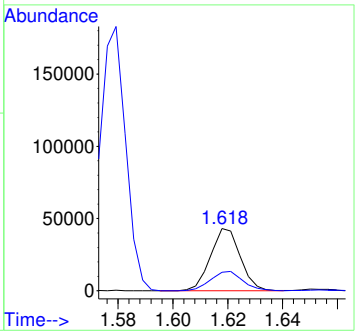


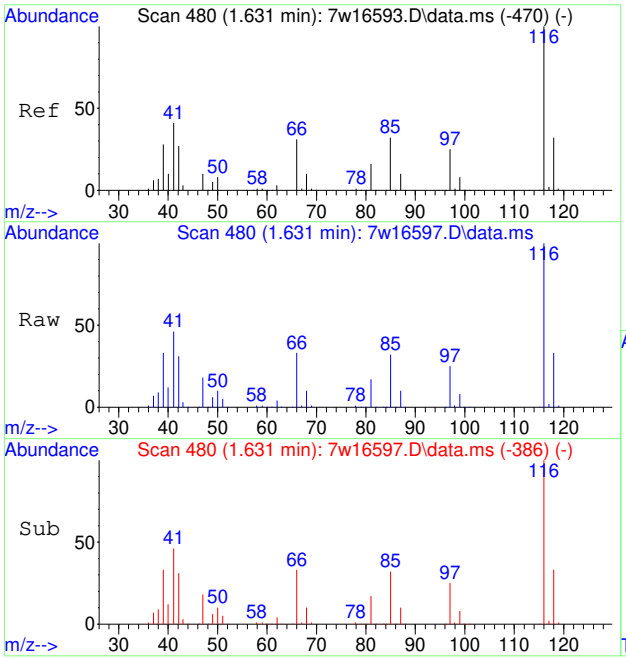


#4
CHLORODIFLUOROMETHANE
Concen: 11.13 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 32765

Ion	Ratio	Lower	Upper
67	100		
69	33.8	25.3	47.1

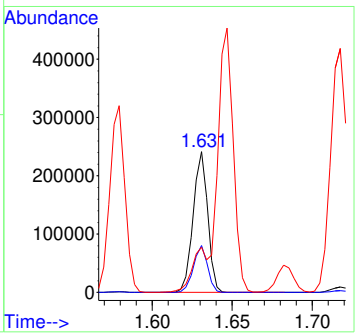


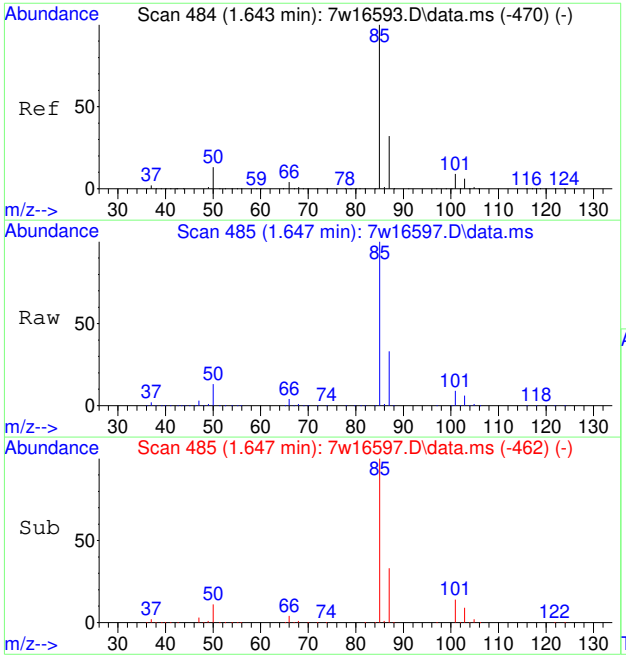


#5
CHLOROTRIFLUOROETHENE
Concen: 10.78 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:116 Resp: 152723

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	229.5	152.4	283.0

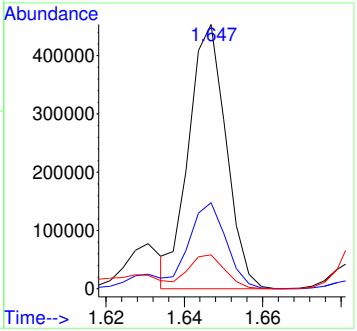


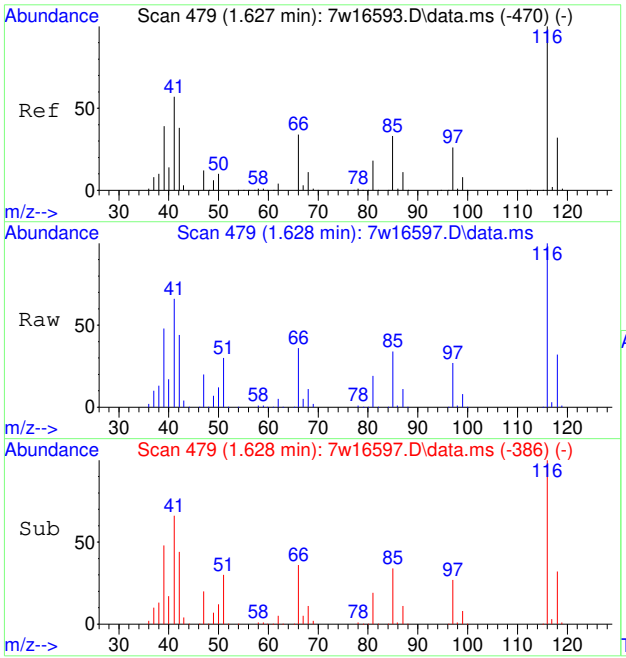


#6
DICHLORODIFLUOROMETHANE
Concen: 11.58 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 300519

Ion	Ratio	Lower	Upper
85	100		
87	37.8	23.0	42.6
50	21.9	13.5	25.1

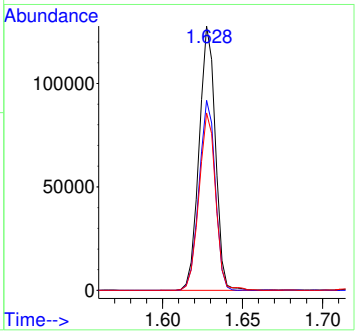


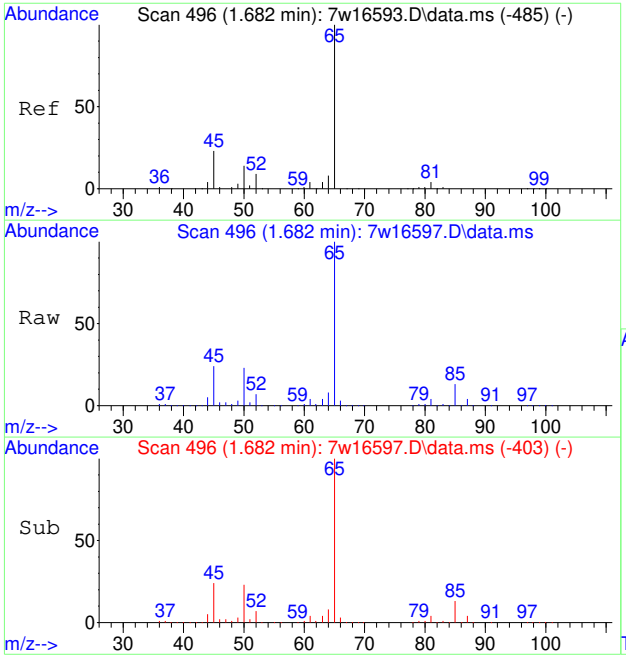


#7
PROPYLENE
Concen: 10.32 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 90576

Ion	Ratio	Lower	Upper
41	100		
39	71.5	50.5	93.7
42	68.3	47.0	87.4

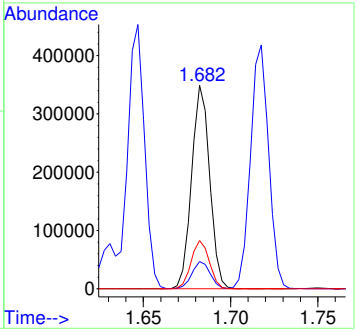


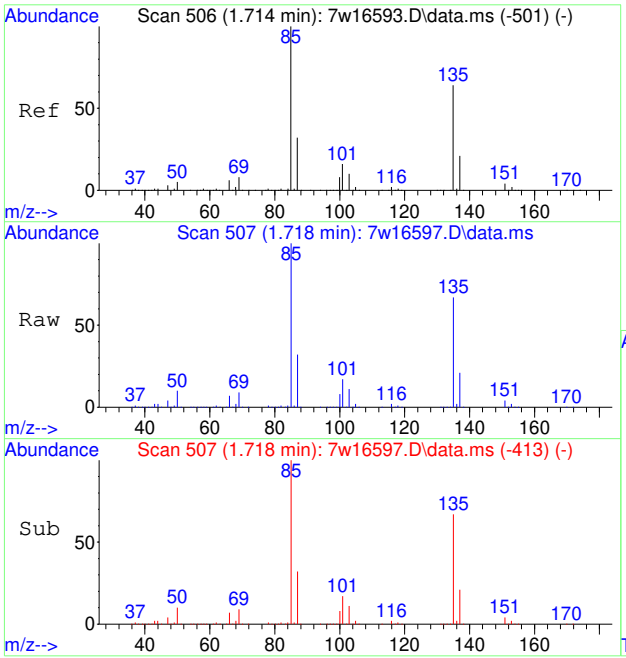


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.91 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 252062

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.4	17.4
45	23.9	16.9	31.3

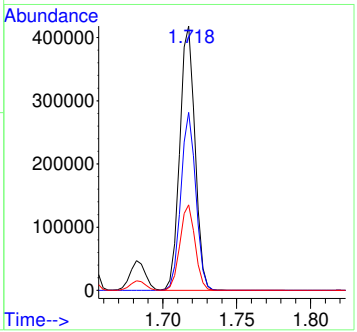


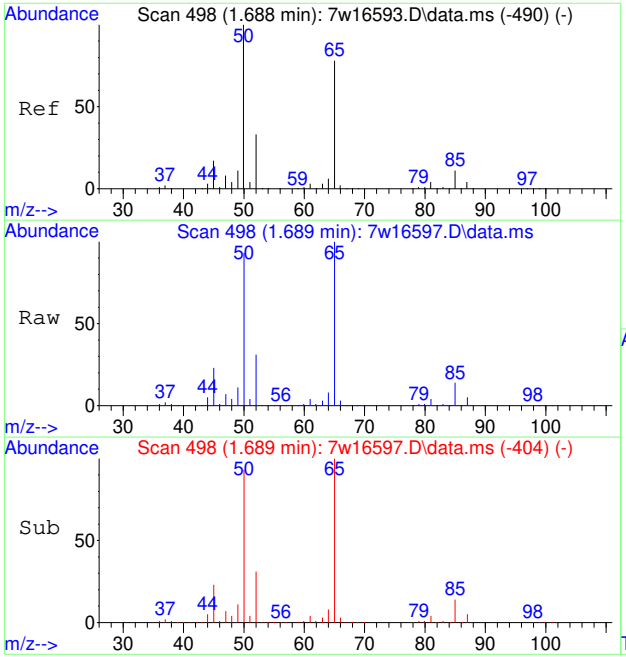


#9
FREON 114
Concen: 11.35 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 303615

Ion	Ratio	Lower	Upper
85	100		
135	66.1	46.1	85.7
87	32.2	22.6	42.0

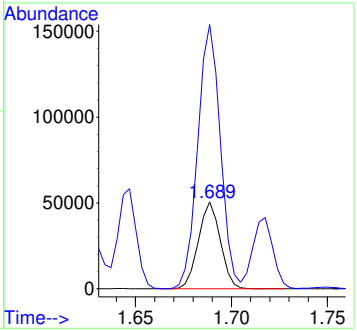


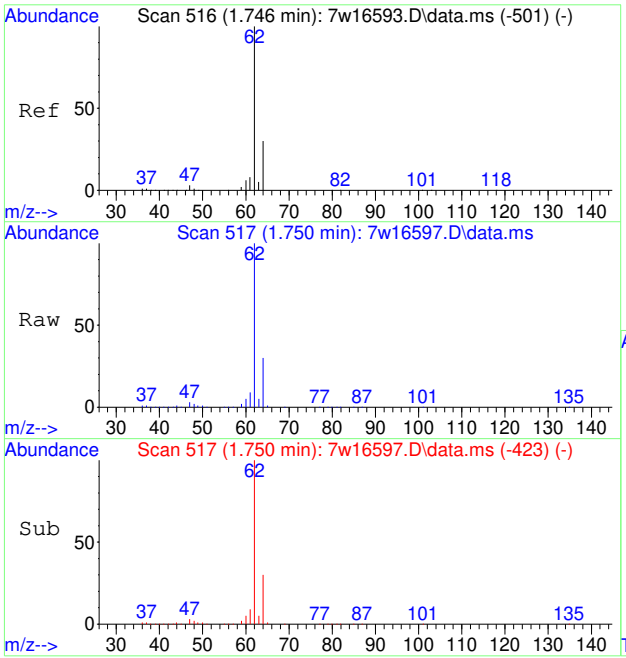


#10
CHLOROMETHANE
Concen: 10.81 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 40254

Ion	Ratio	Lower	Upper
52	100		
50	317.7	225.6	419.0

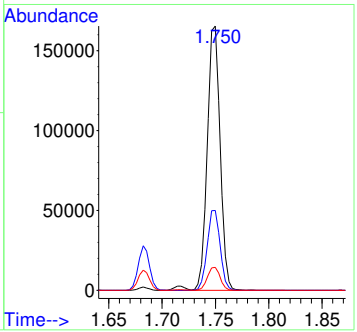


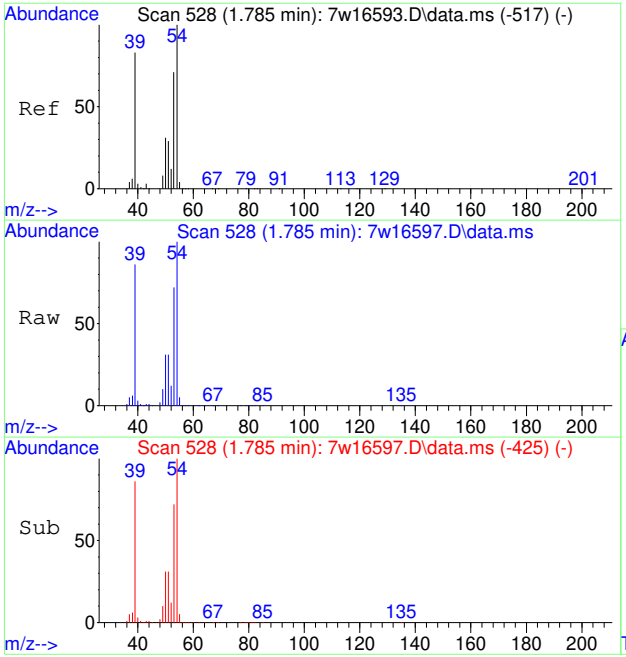


#11
VINYL CHLORIDE
Concen: 10.62 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 140045

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.8	5.7	10.5

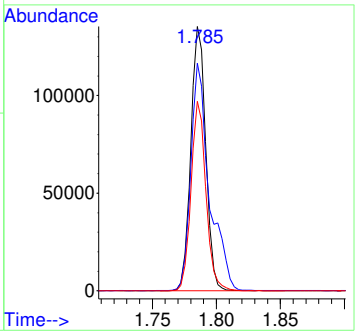


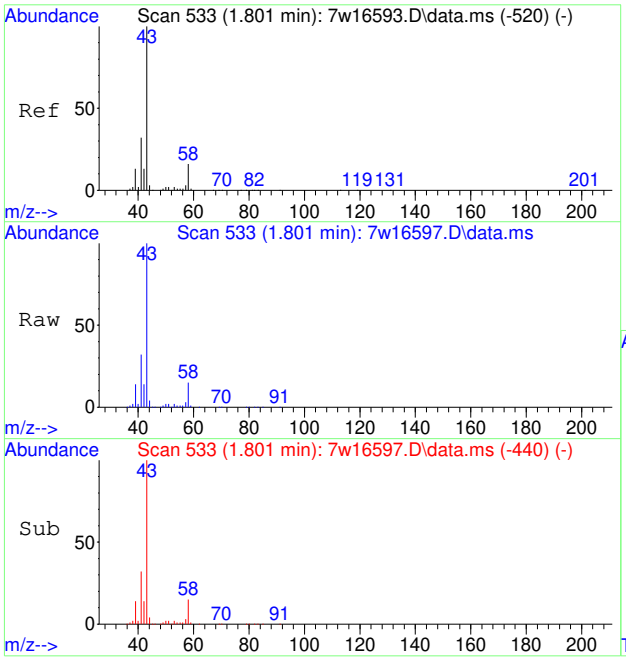


#12
1,3-BUTADIENE
Concen: 10.53 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 54 Resp: 109649

Ion	Ratio	Lower	Upper
54	100		
39	107.1	78.4	138.4
53	71.9	40.9	100.9

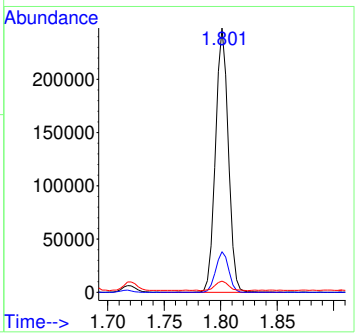


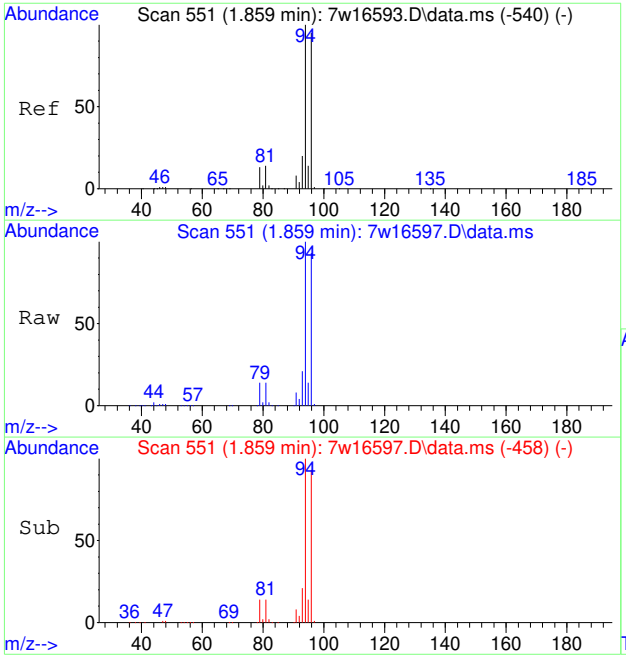


#13
N-BUTANE
Concen: 11.06 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 194903

Ion	Ratio	Lower	Upper
43	100		
58	15.6	11.0	20.4
44	3.8	2.6	4.8

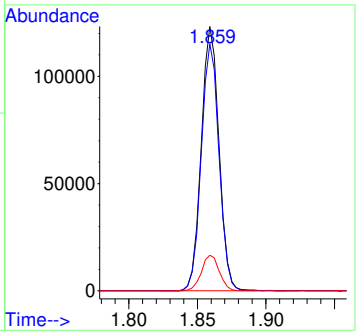


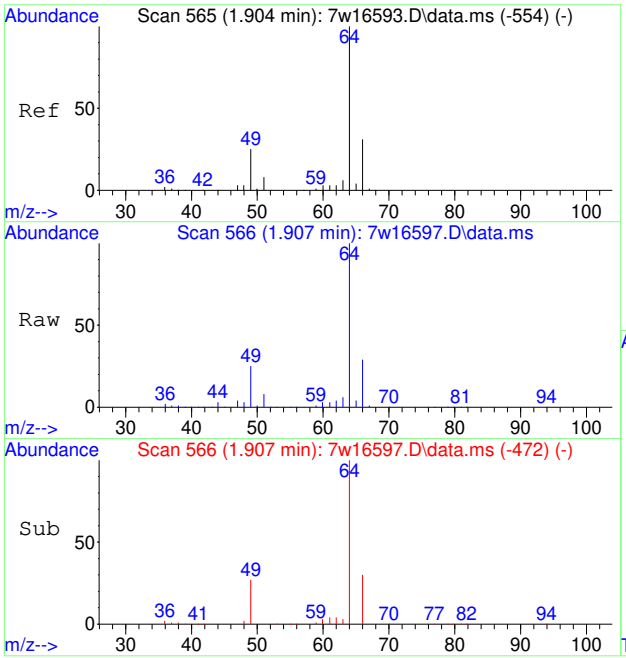


#14
BROMOMETHANE
Concen: 10.79 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 94 Resp: 110308

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.6	9.9	18.3

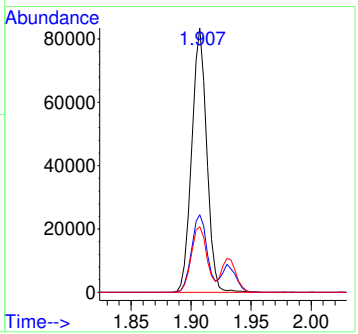


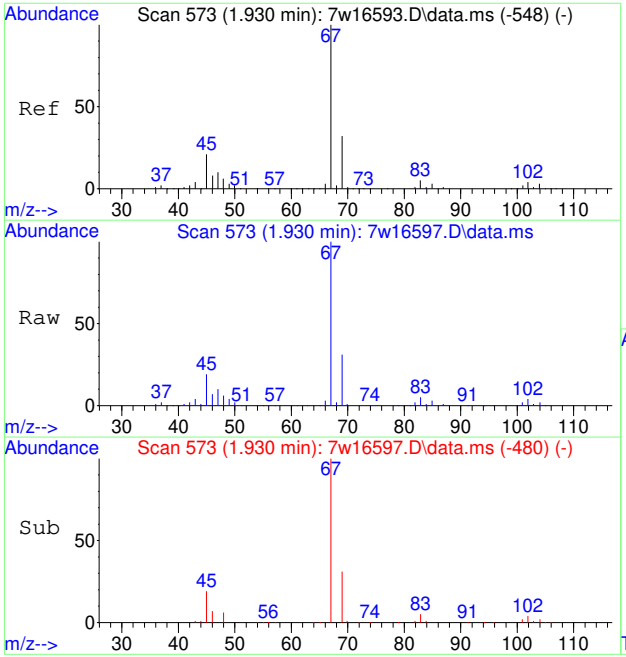


#15
CHLOROETHANE
Concen: 10.13 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 64 Resp: 72483

Ion	Ratio	Lower	Upper
64	100		
66	40.6	21.5	39.9#
49	26.3	19.0	35.4

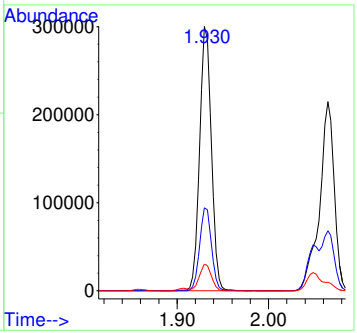


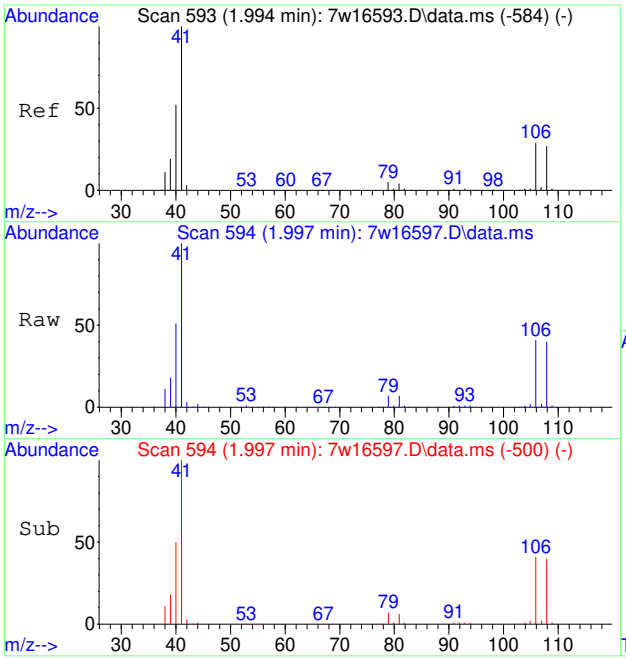


#16
DICHLOROFLUOROMETHANE
Concen: 10.84 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 268652

Ion	Ratio	Lower	Upper
67	100		
69	31.6	21.8	40.6
47	11.1	8.0	14.8

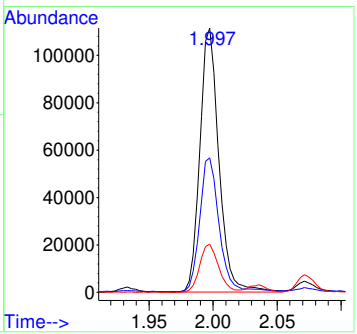


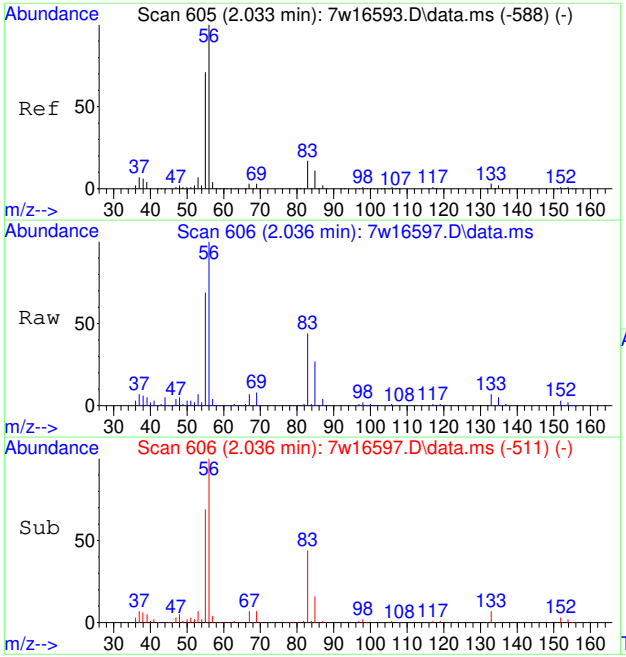


#17
ACETONITRILE
Concen: 9.36 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 115239

Ion	Ratio	Lower	Upper
41	100		
40	51.9	36.7	68.1
39	18.2	13.1	24.3

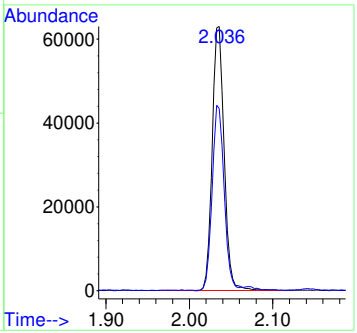


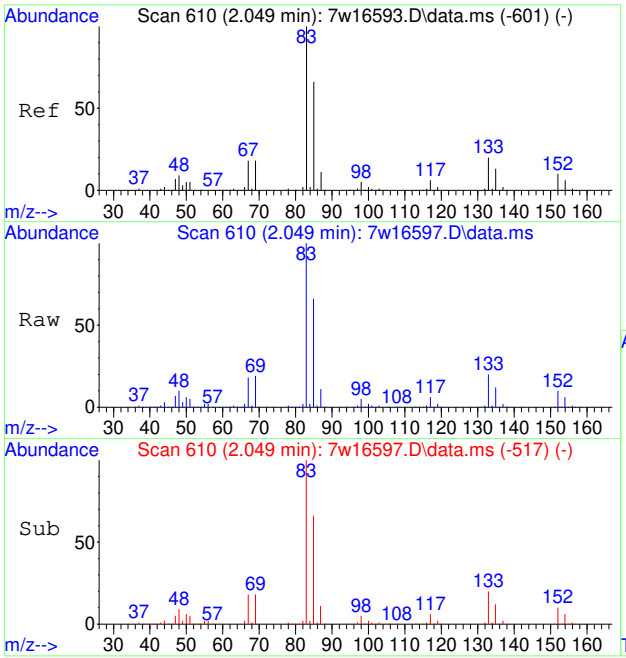


#18
ACROLEIN
Concen: 10.71 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 56 Resp: 62655

Ion	Ratio	Lower	Upper
56	100		
55	71.8	48.9	90.7

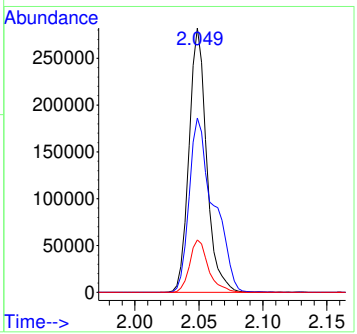


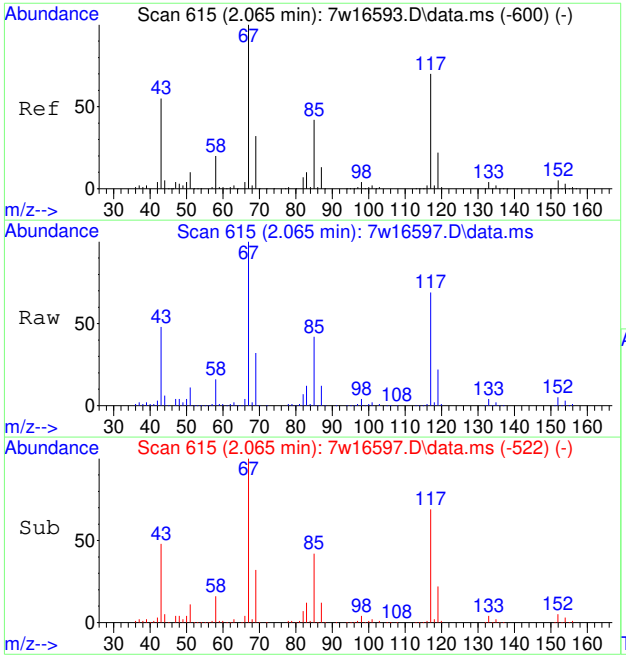


#19
FREON 123
Concen: 10.84 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 270679

Ion	Ratio	Lower	Upper
83	100		
85	91.4	64.9	120.5
133	21.2	14.7	27.3

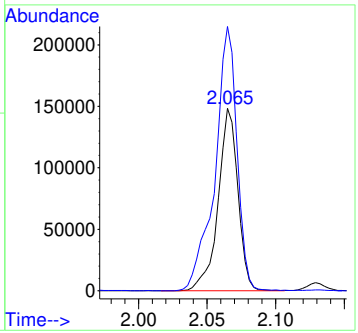


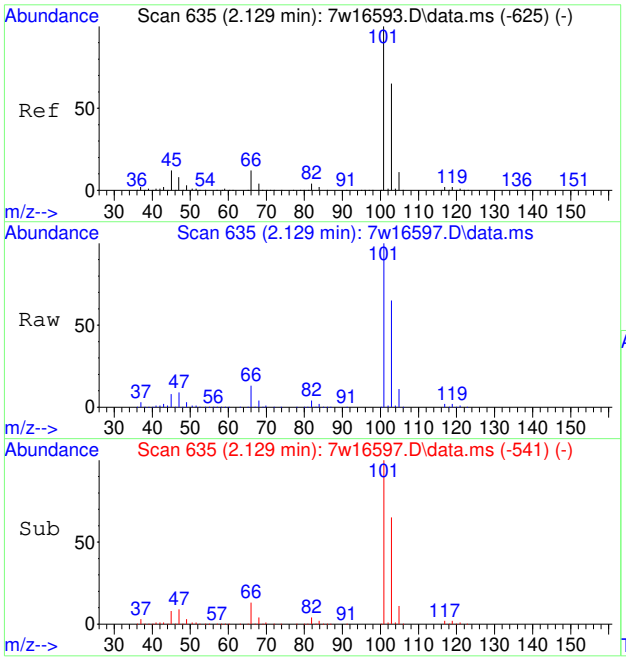


#20
FREON 123A
Concen: 10.06 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 148778

Ion	Ratio	Lower	Upper
117	100		
67	161.4	111.3	206.7

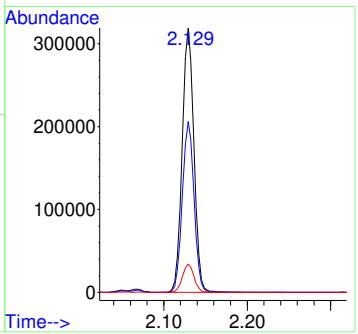


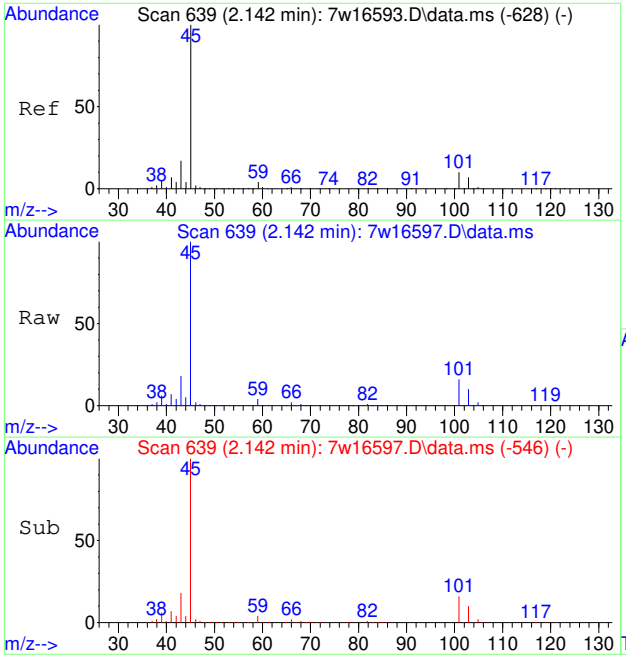


#21
TRICHLOROFLUOROMETHANE
Concen: 11.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:101 Resp: 311135

Ion	Ratio	Lower	Upper
101	100		
103	64.7	45.2	84.0
105	10.6	7.3	13.5

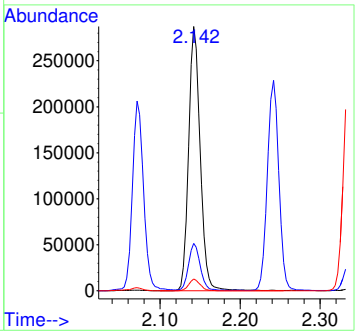


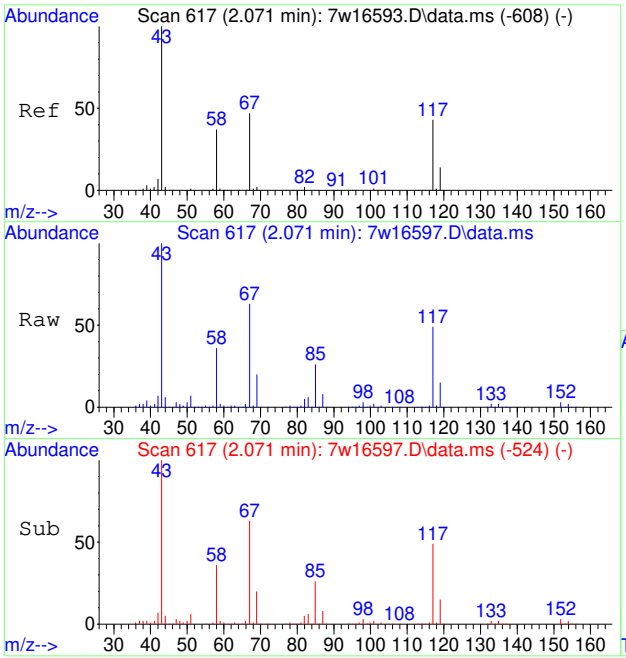


#22
ISOPROPYL ALCOHOL
Concen: 12.15 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 290247

Ion	Ratio	Lower	Upper
45	100		
43	18.3	12.5	23.3
59	4.4	3.1	5.7

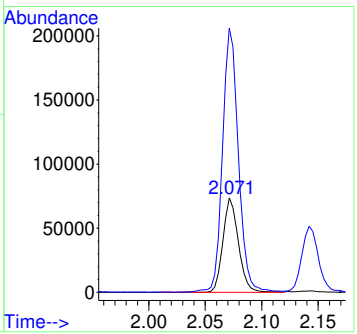


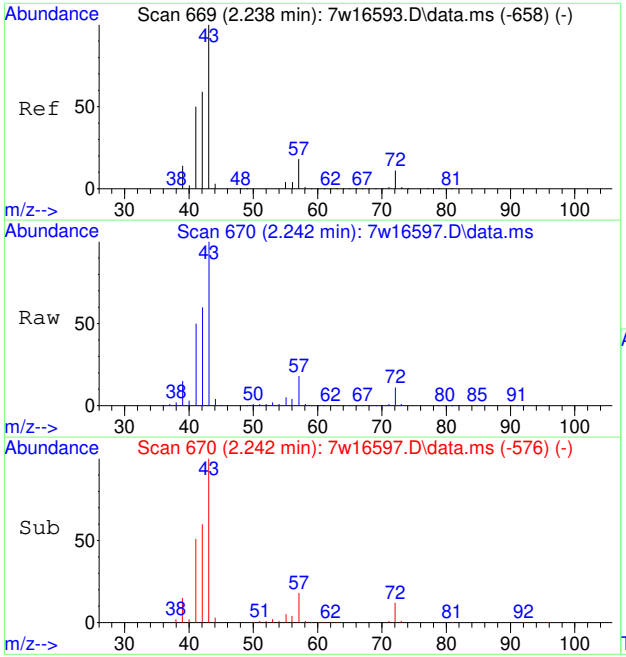


#23
ACETONE
Concen: 10.78 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 70408

Ion	Ratio	Lower	Upper
58	100		
43	284.2	198.6	368.8

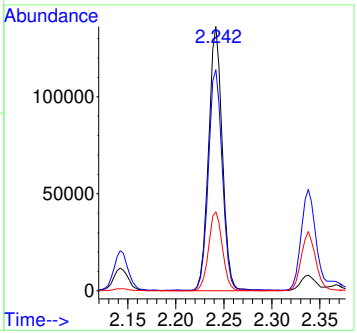


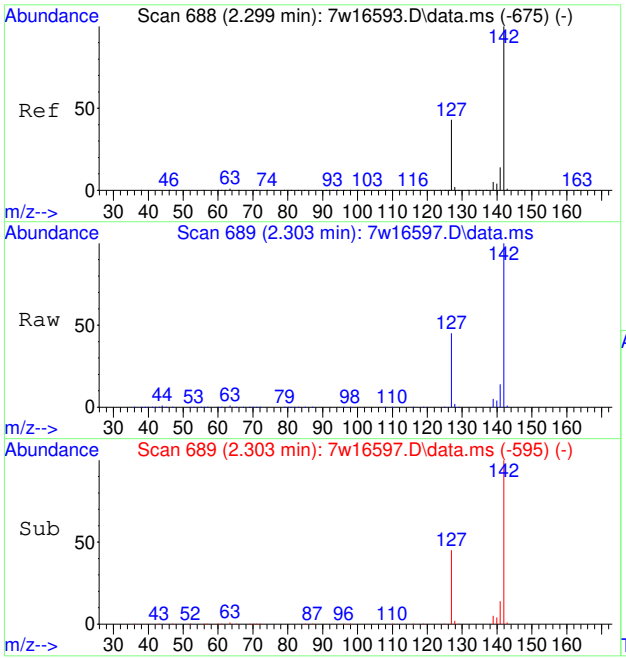


#24
PENTANE
Concen: 10.43 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 42 Resp: 134988

Ion	Ratio	Lower	Upper
42	100		
41	85.4	59.8	111.0
57	30.5	21.1	39.1

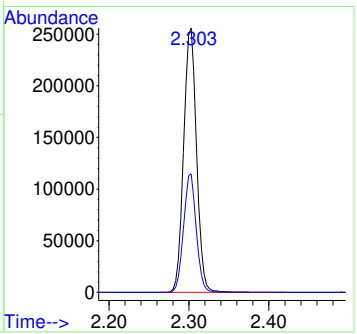


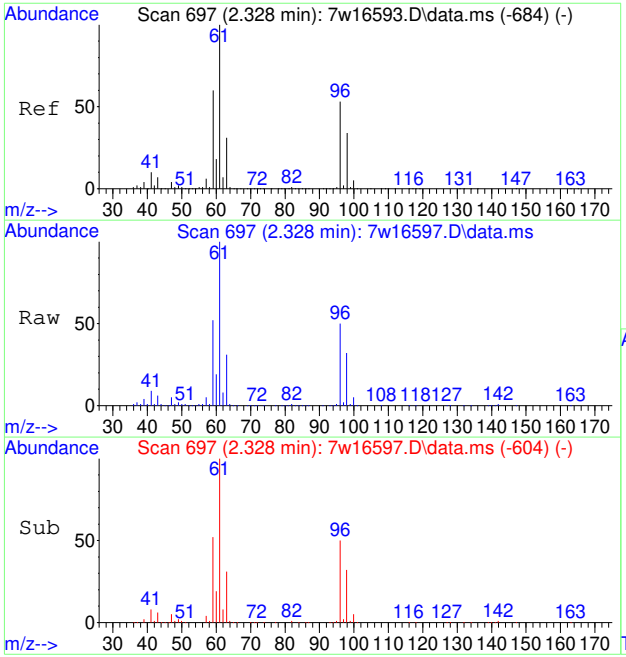


#25
IODOMETHANE
Concen: 11.08 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:142 Resp: 287484

Ion	Ratio	Lower	Upper
142	100		
127	44.2	30.6	56.8

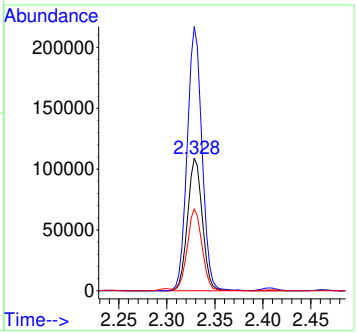


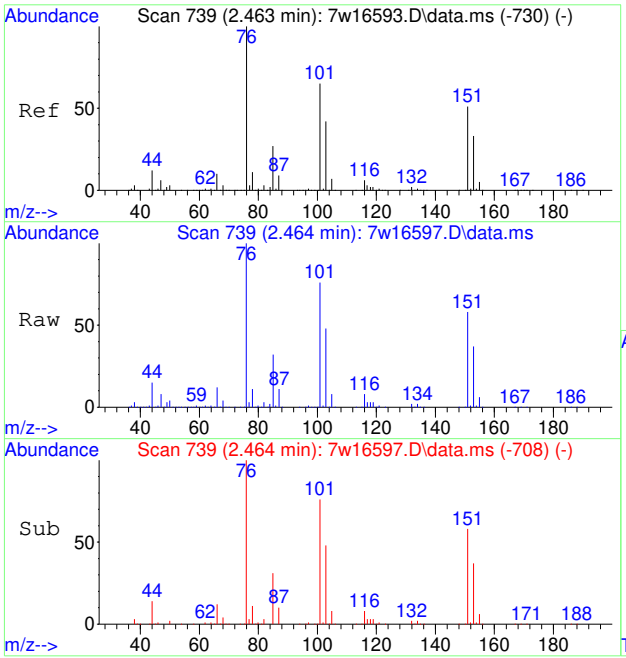


#26
1,1-DICHLOROETHYLENE
Concen: 10.89 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 117061

Ion	Ratio	Lower	Upper
96	100		
61	198.6	138.3	256.8
63	62.7	44.2	82.0

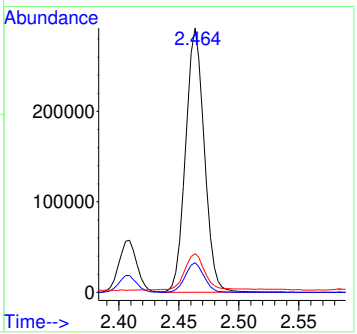


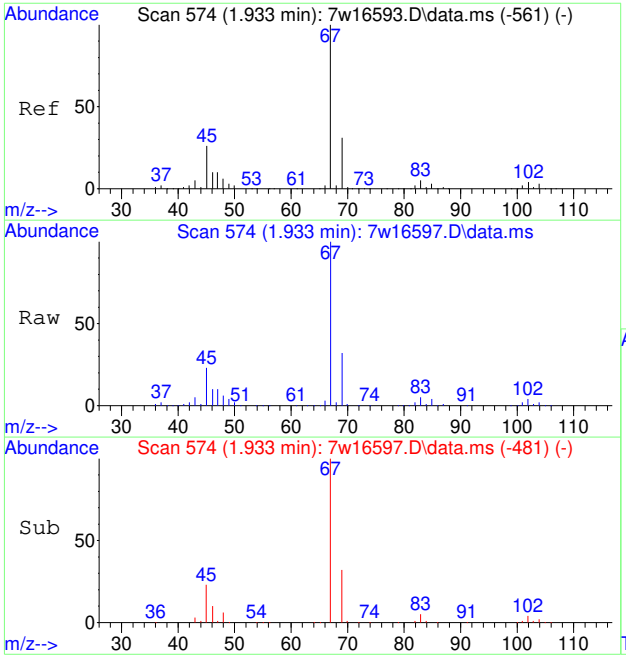


#27
CARBON DISULFIDE
Concen: 10.38 PPBV
RT: 2.464 min Scan# 739
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 316603

Ion	Ratio	Lower	Upper
76	100		
78	11.2	7.7	14.3
44	15.7	10.2	19.0

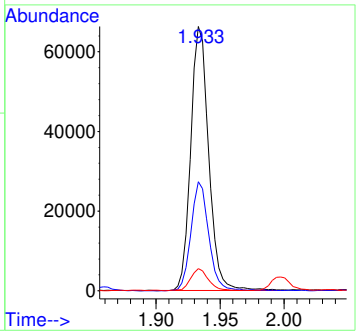


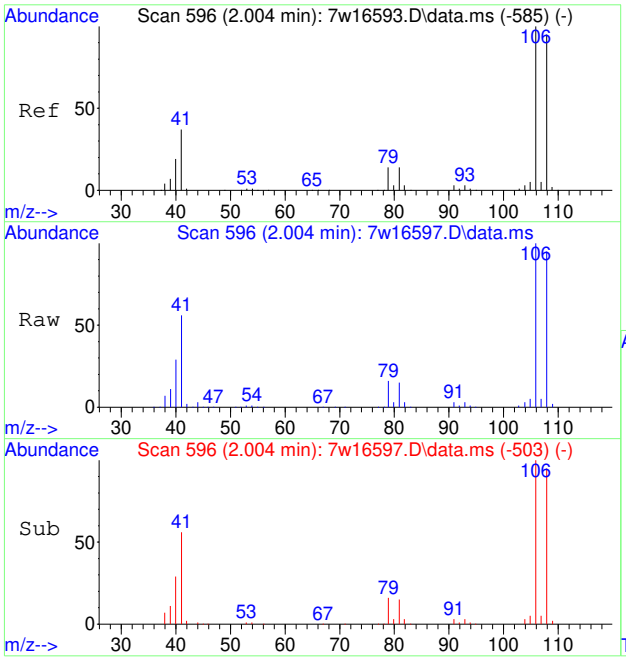


#28
ETHANOL
Concen: 10.20 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 64897

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.0	53.9
42	8.0	5.7	10.5

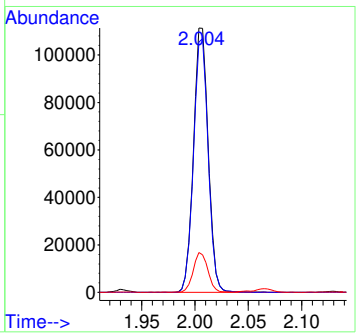


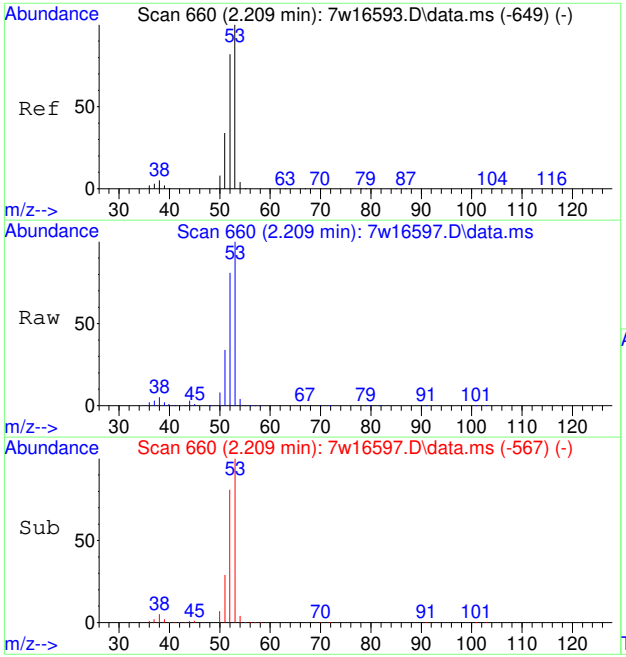


#29
BROMOETHENE
Concen: 10.44 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:106 Resp: 107141

Ion	Ratio	Lower	Upper
106	100		
108	95.8	66.1	122.7
81	15.1	10.6	19.8

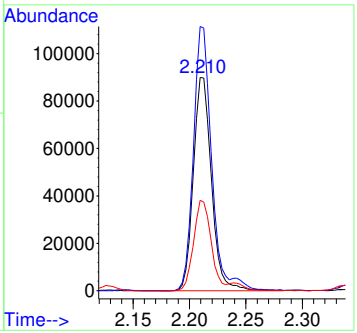


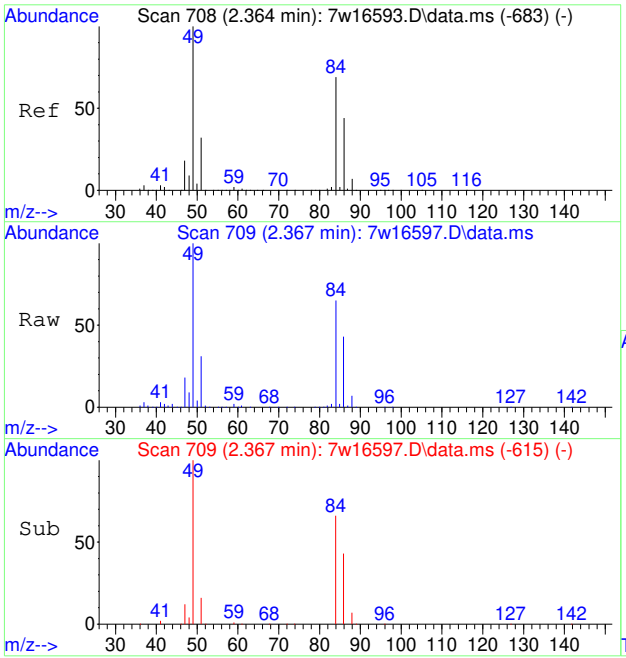


#30
ACRYLONITRILE
Concen: 10.95 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 100564

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.5	31.3	58.1

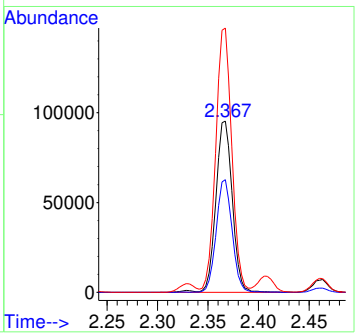


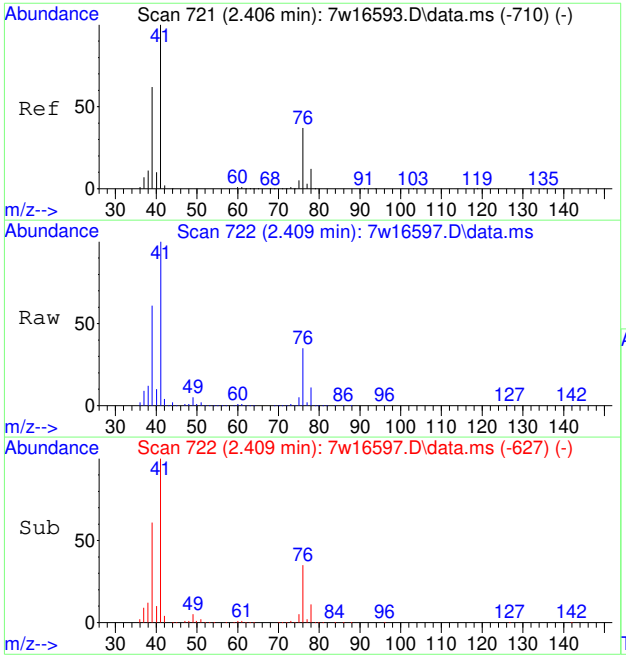


#31
METHYLENE CHLORIDE
Concen: 10.27 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 108156

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.3	82.3
49	150.9	109.5	203.3

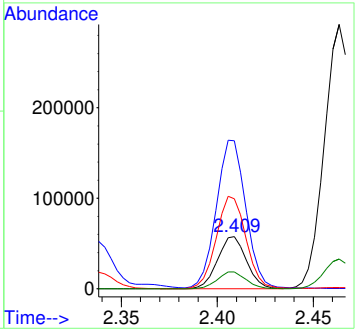


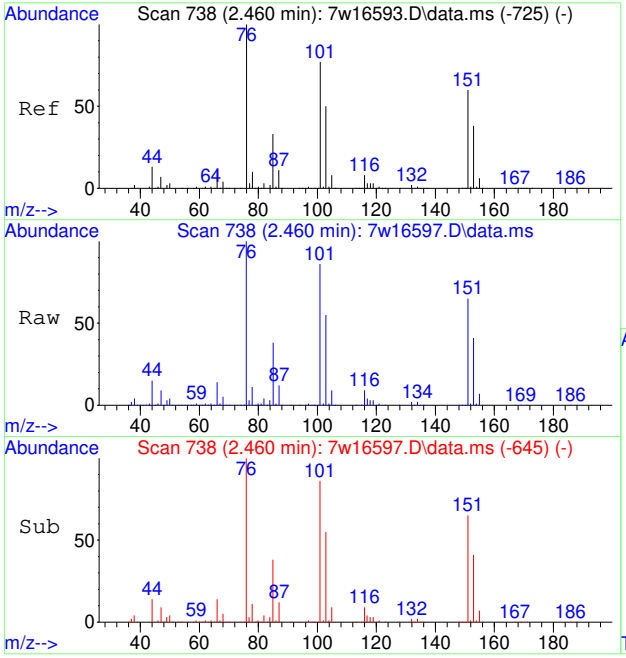


#32
3-CHLOROPROPENE
Concen: 10.52 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 60492

Ion	Ratio	Lower	Upper
76	100		
41	291.7	202.6	376.2
39	181.6	125.8	233.6
78	32.4	23.1	42.9

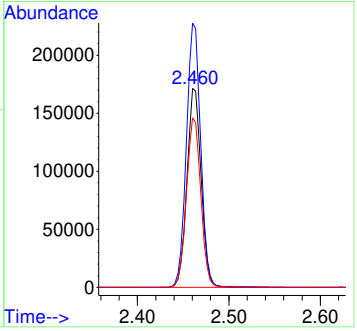


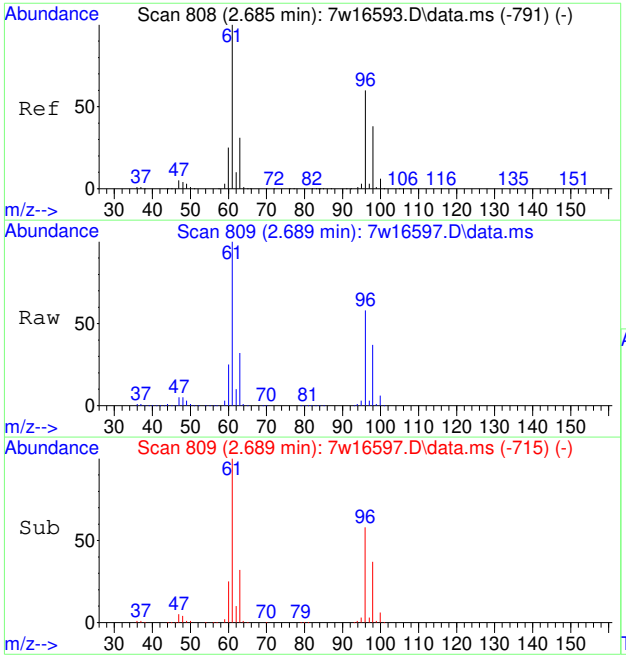


#33
FREON 113
Concen: 11.44 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:151 Resp: 185131

Ion	Ratio	Lower	Upper
151	100		
101	133.4	93.1	172.9
103	85.8	60.1	111.5

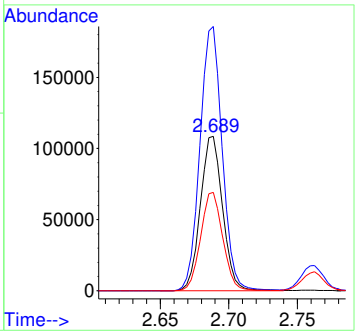


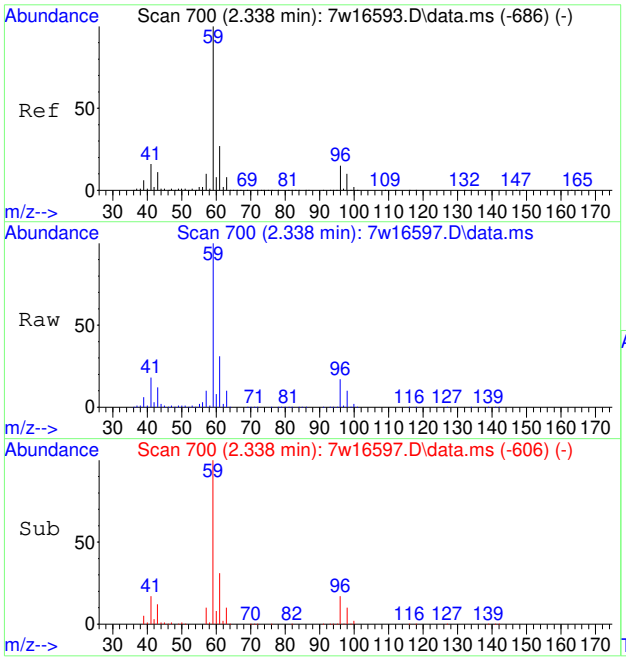


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.33 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 122177

Ion	Ratio	Lower	Upper
96	100		
61	171.2	119.6	222.0
98	63.6	44.9	83.5

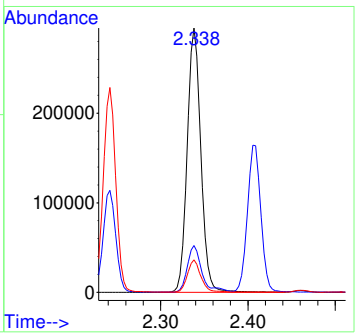


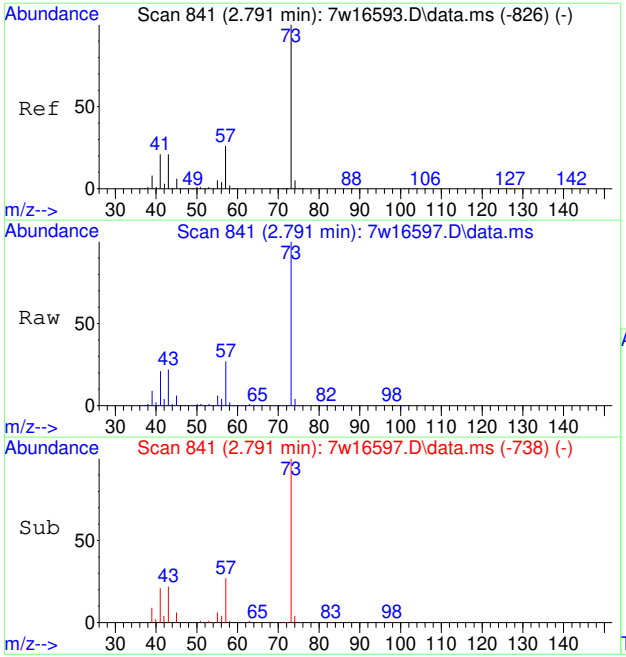


#35
TERTIARY BUTYL ALCOHOL
Concen: 10.78 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 321878

Ion	Ratio	Lower	Upper
59	100		
41	18.6	12.9	23.9
43	12.1	8.0	14.8

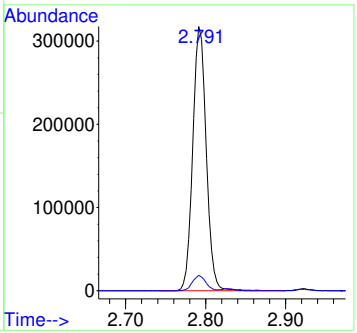


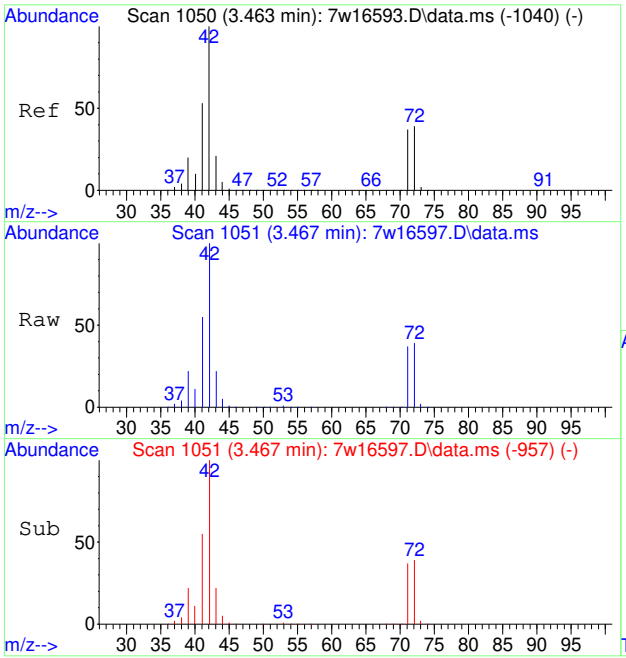


#36
METHYL TERTIARY BUTYL ETHER
Concen: 11.06 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 73 Resp: 372091

Ion	Ratio	Lower	Upper
73	100		
45	5.8	4.1	7.5

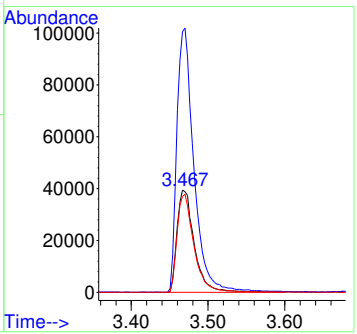


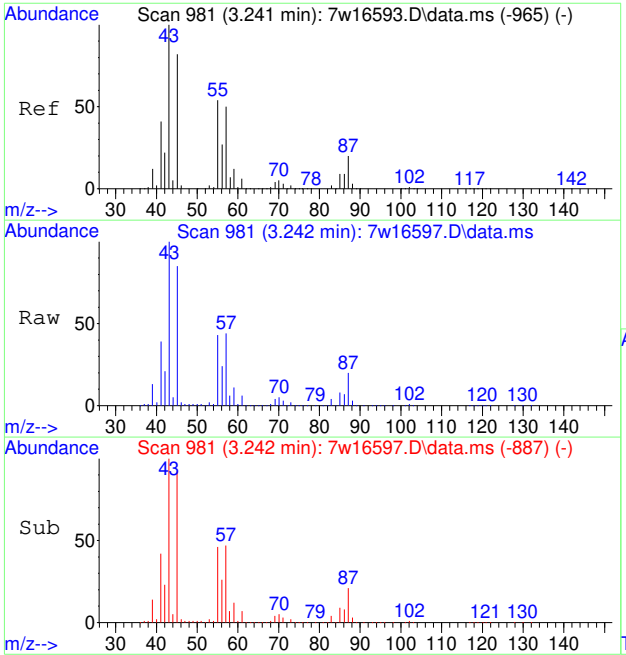


#37
TETRAHYDROFURAN
Concen: 11.34 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 61873

Ion	Ratio	Lower	Upper
72	100		
42	255.2	180.3	334.8
71	93.5	65.8	122.2

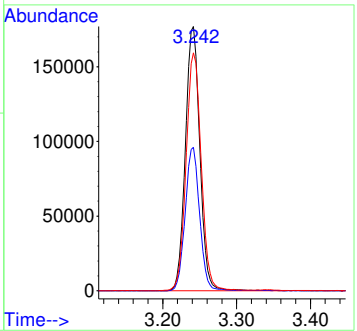


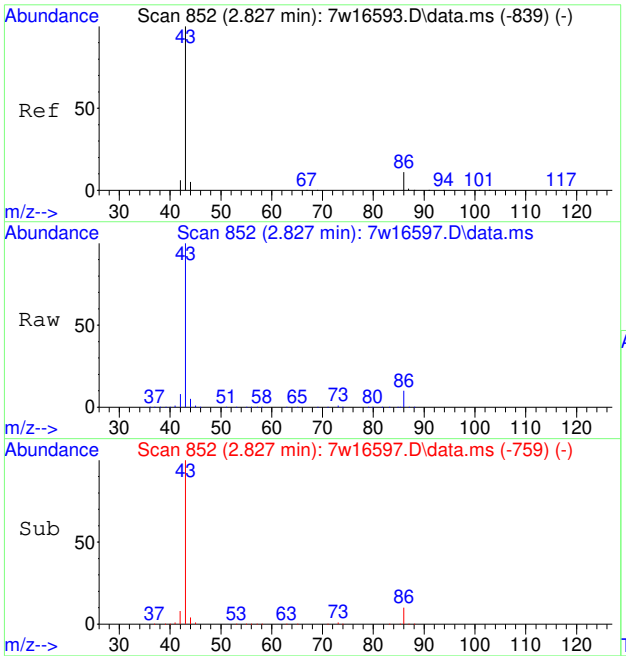


#38
HEXANE
Concen: 10.65 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 241359

Ion	Ratio	Lower	Upper
57	100		
56	54.3	38.0	70.6
41	94.3	65.9	122.5

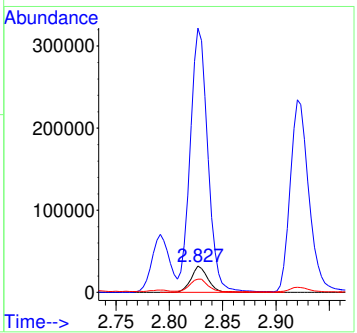


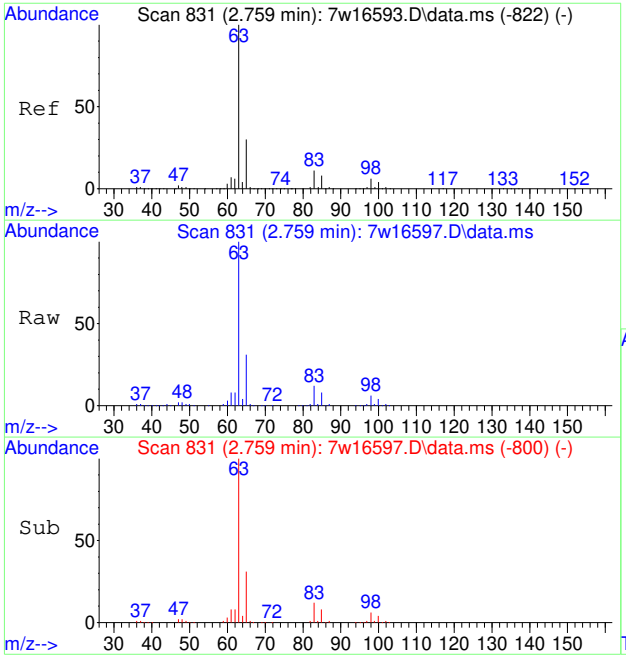


#39
VINYL ACETATE
Concen: 10.80 PPBV
RT: 2.827 min Scan# 852
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 86 Resp: 34923

Ion	Ratio	Lower	Upper
86	100		
43	1069.3	758.7	1408.9
44	53.9	39.5	73.3

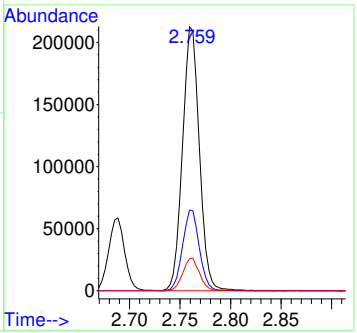


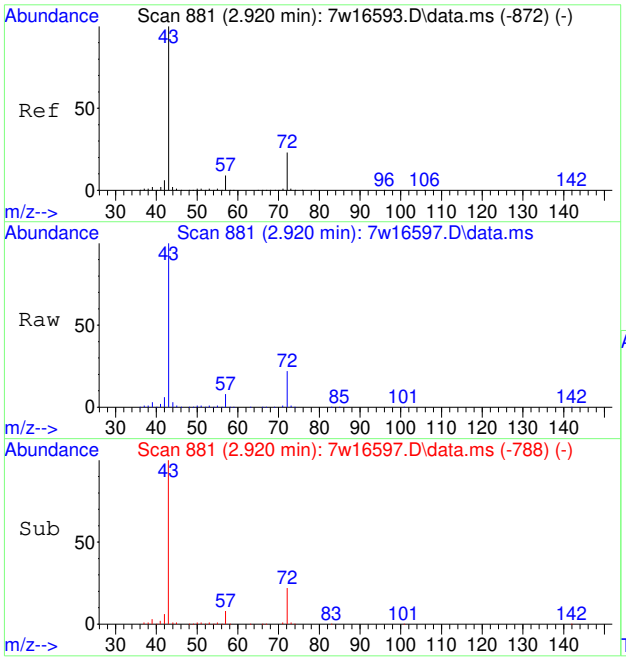


#40
1,1-DICHLOROETHANE
Concen: 10.82 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 247364

Ion	Ratio	Lower	Upper
63	100		
65	30.7	21.4	39.8
83	12.4	8.3	15.5

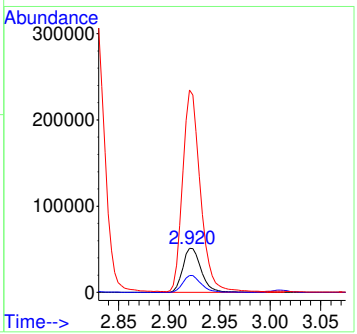


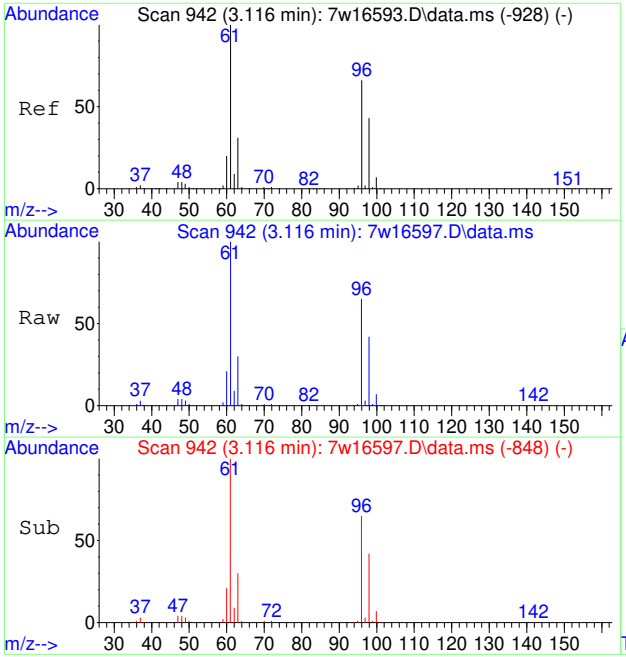


#41
METHYL ETHYL KETONE
Concen: 10.54 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 65125

Ion	Ratio	Lower	Upper
72	100		
57	38.2	26.9	49.9
43	435.4	309.4	574.6

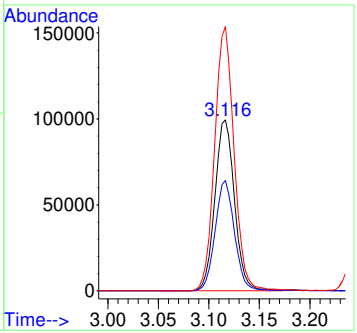


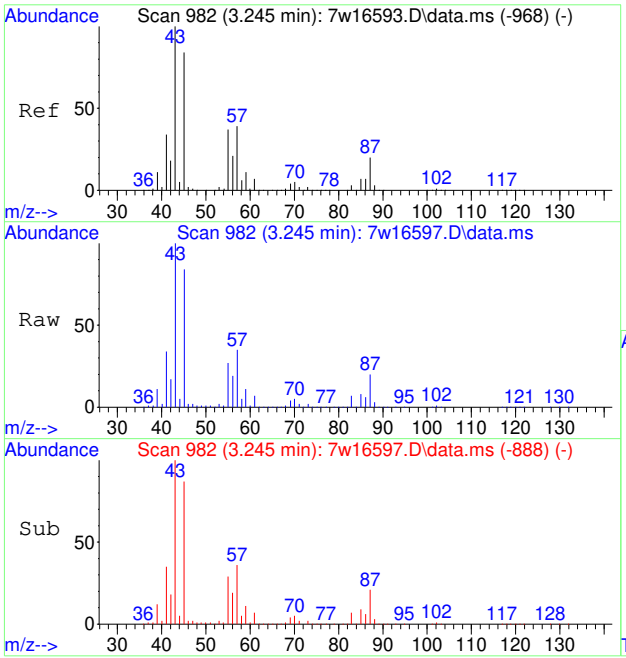


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.92 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 133909

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	153.4	107.3	199.3

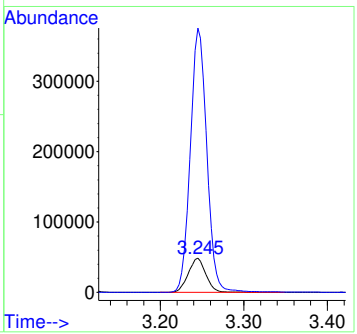


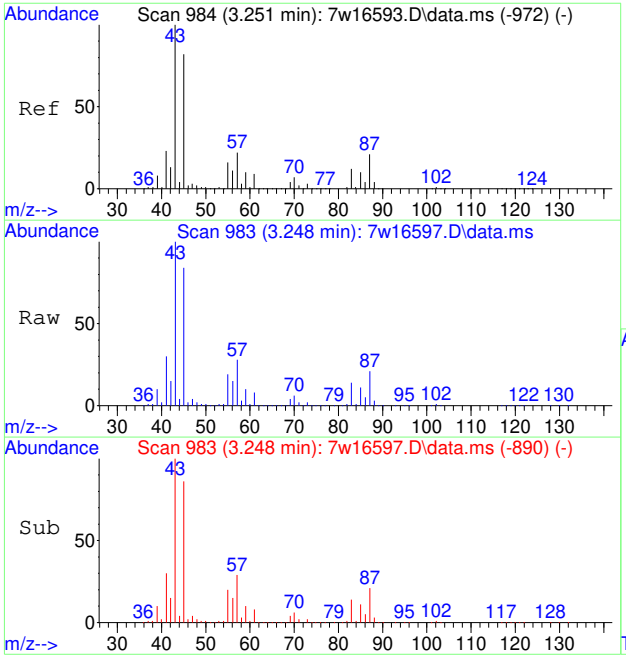


#43
DIISOPROPYL ETHER
Concen: 11.12 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 71425

Ion	Ratio	Lower	Upper
59	100		
45	726.0	517.6	961.2

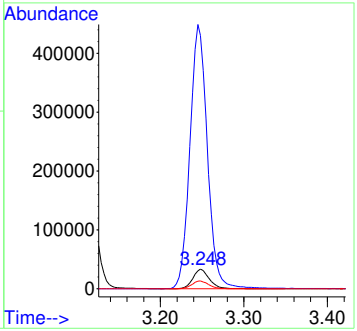


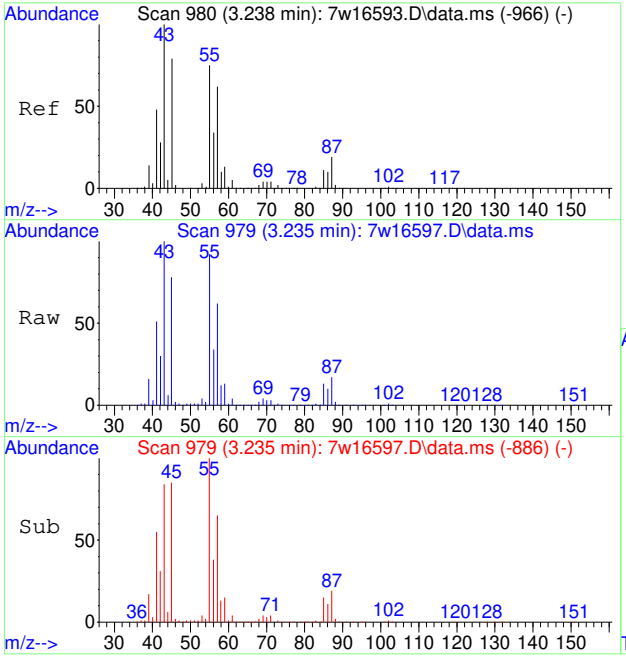


#44
ETHYL ACETATE
Concen: 10.62 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 61 Resp: 46105

Ion	Ratio	Lower	Upper
61	100		
43	1420.7	955.4	1774.4
88	41.4	27.6	51.2

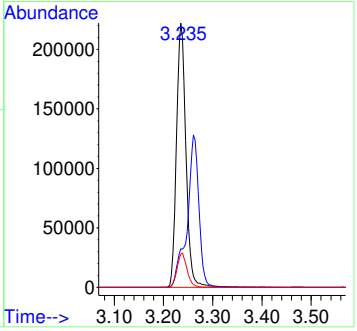


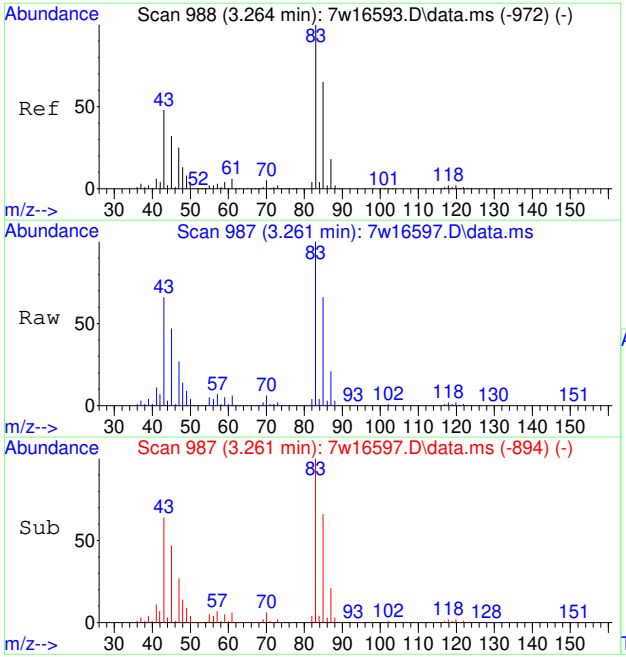


#45
METHYL ACRYLATE
Concen: 10.90 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 298658

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

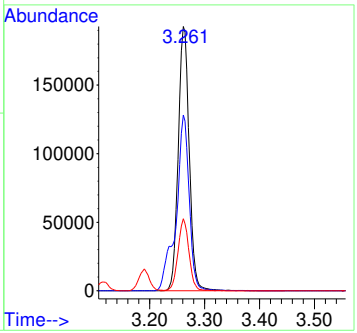


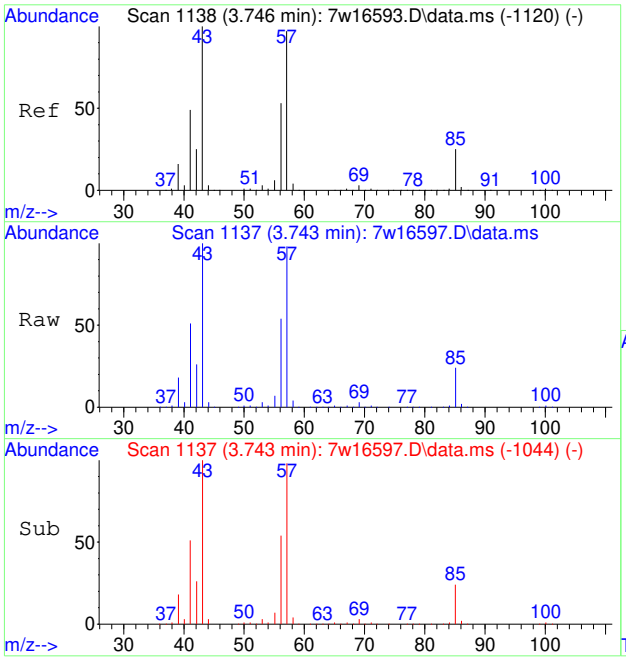


#46
CHLOROFORM
Concen: 11.35 PPBV
RT: 3.261 min Scan# 987
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 268569

Ion	Ratio	Lower	Upper
83	100		
85	79.6	56.0	104.0
47	27.5	19.0	35.4

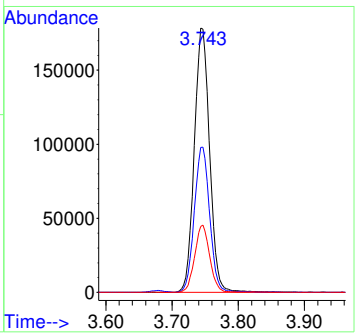


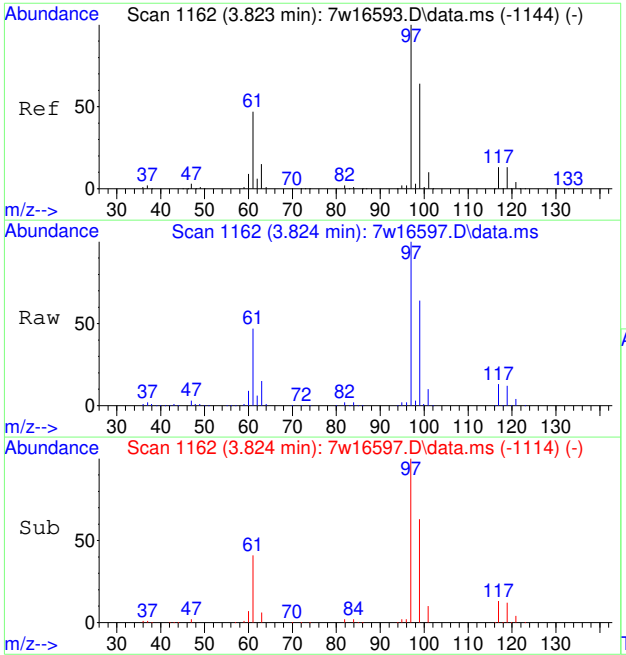


#47
2,4-DIMETHYLPENTANE
Concen: 11.35 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 287870

Ion	Ratio	Lower	Upper
57	100		
56	55.4	38.4	71.2
85	25.0	17.5	32.5

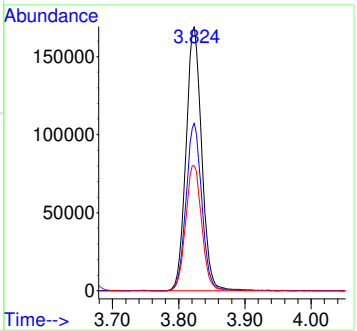


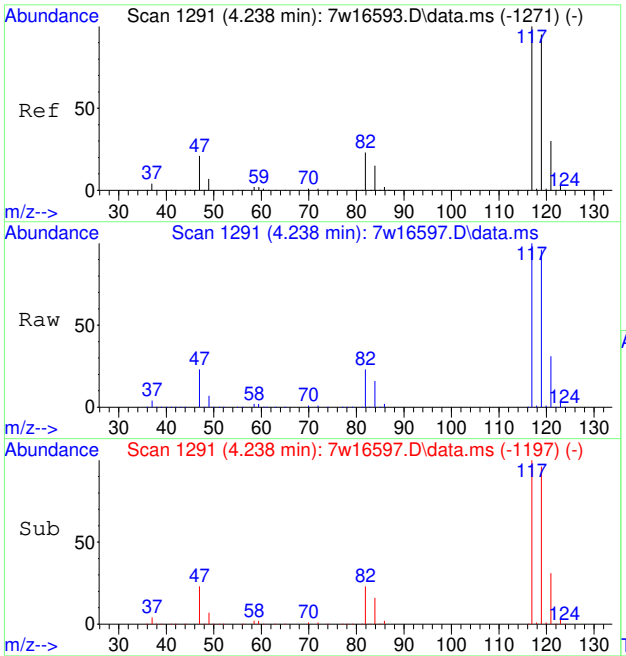


#48
1,1,1-TRICHLOROETHANE
Concen: 11.20 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 97 Resp: 279200

Ion	Ratio	Lower	Upper
97	100		
99	63.8	45.0	83.6
61	48.8	34.7	64.5

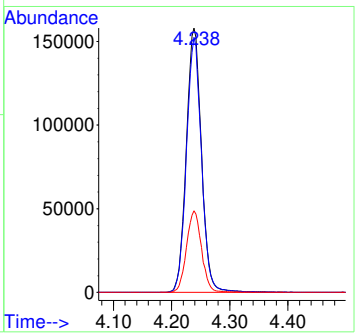


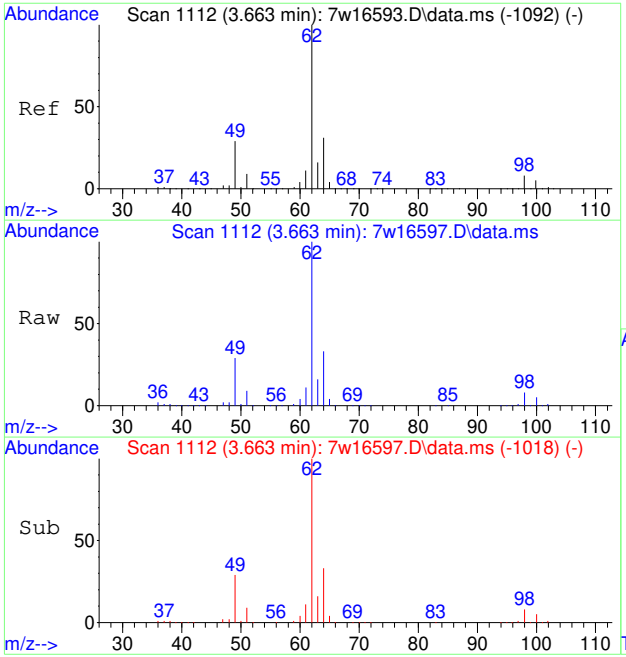


#49
CARBON TETRACHLORIDE
Concen: 11.10 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 286618

Ion	Ratio	Lower	Upper
117	100		
119	95.8	67.5	125.3
121	30.7	21.3	39.5

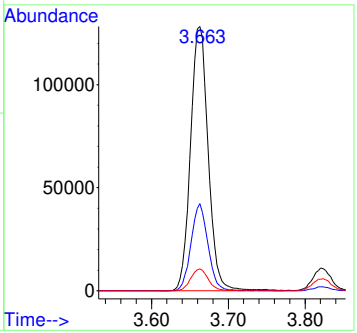


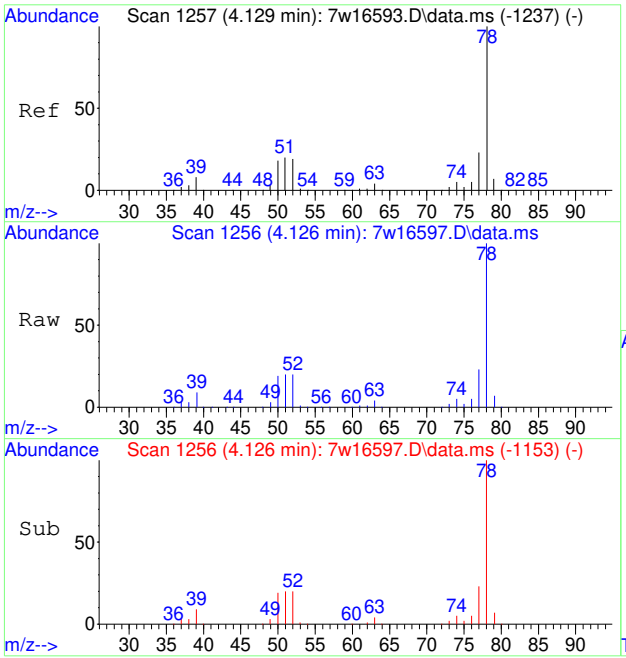


#50
1,2-DICHLOROETHANE
Concen: 11.17 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 205457

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.3	5.8	10.8

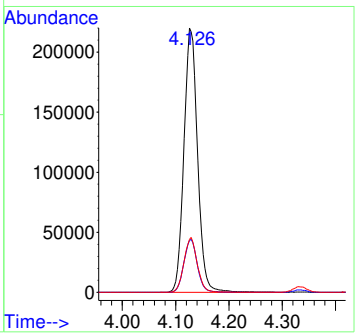


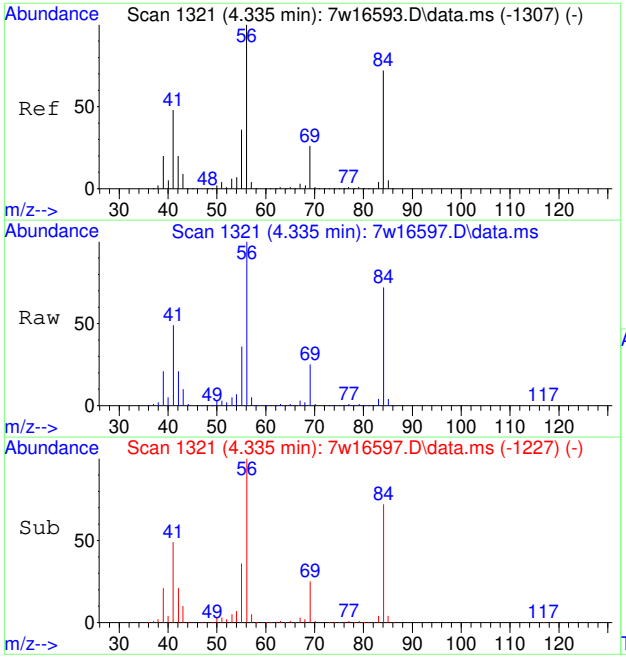


#51
BENZENE
Concen: 10.80 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 78 Resp: 392045

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	49.9
51	20.3	0.0	50.6

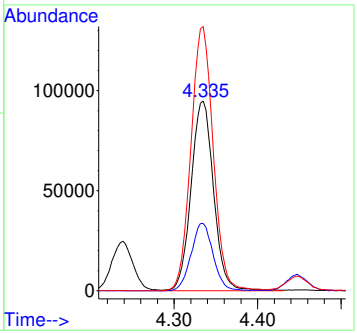


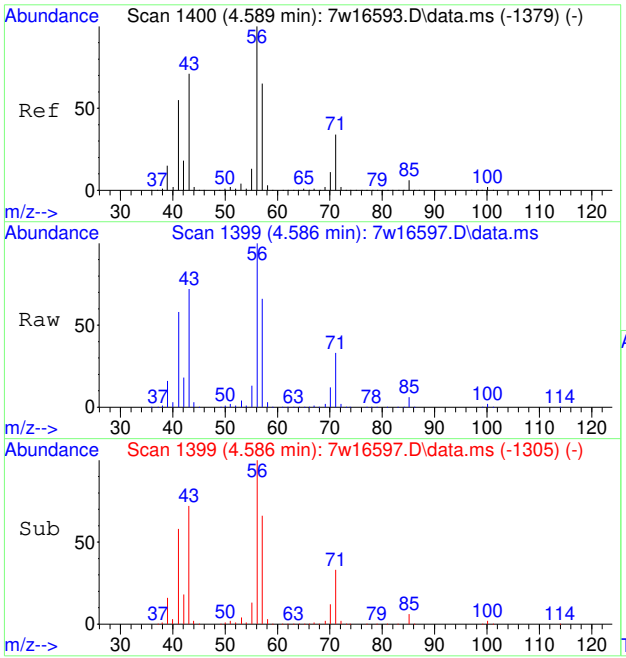


#53
CYCLOHEXANE
Concen: 11.13 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 178042

Ion	Ratio	Lower	Upper
84	100		
69	34.9	24.6	45.6
56	137.7	96.4	179.0

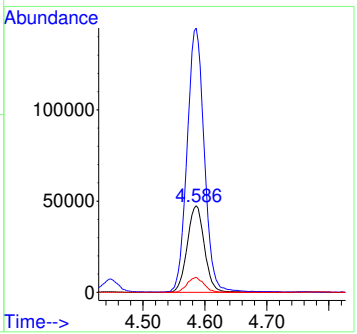


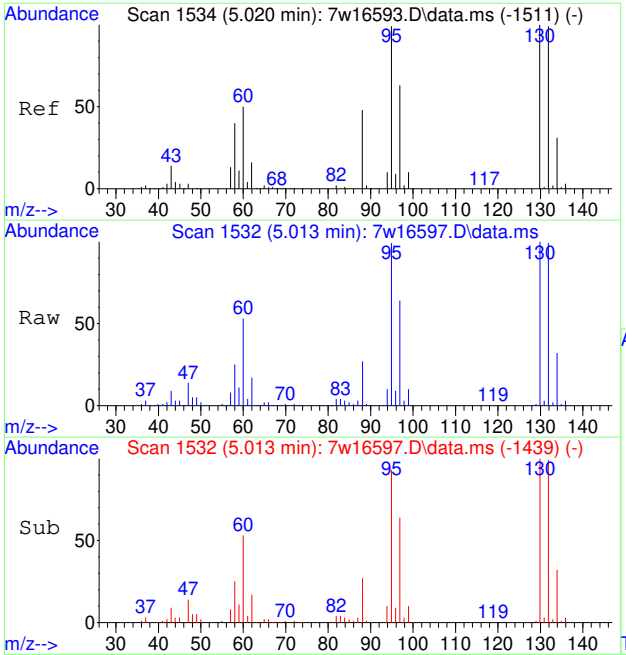


#54
2,3-DIMETHYLPENTANE
Concen: 11.55 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 71 Resp: 92136

Ion	Ratio	Lower	Upper
71	100		
56	303.3	213.2	396.0
85	17.0	12.2	22.6

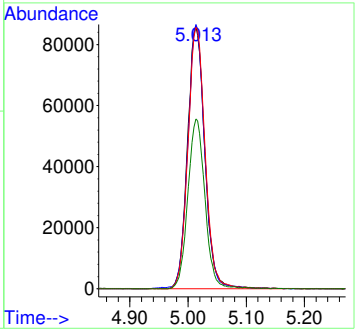


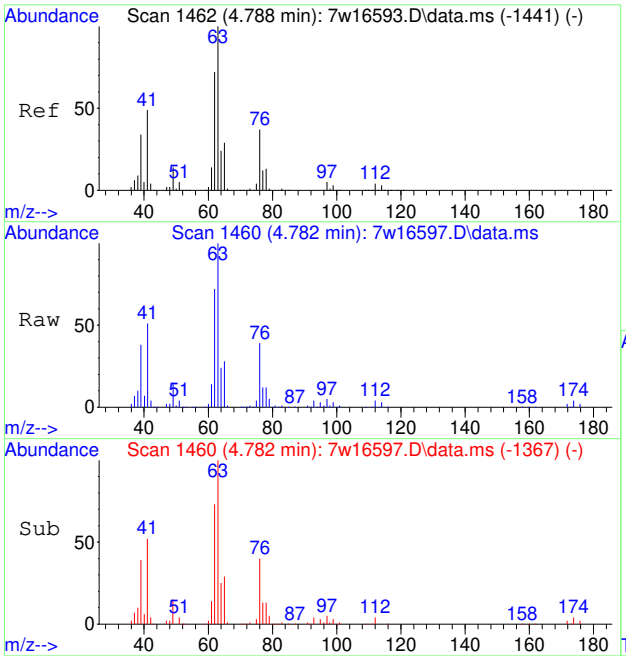


#55
TRICHLOROETHENE
Concen: 10.41 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 95 Resp: 177553

Ion	Ratio	Lower	Upper
95	100		
130	99.6	69.4	129.0
132	99.5	69.4	128.8
97	63.9	45.0	83.6

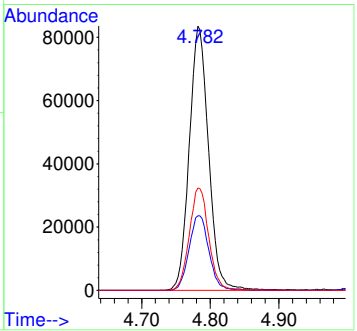


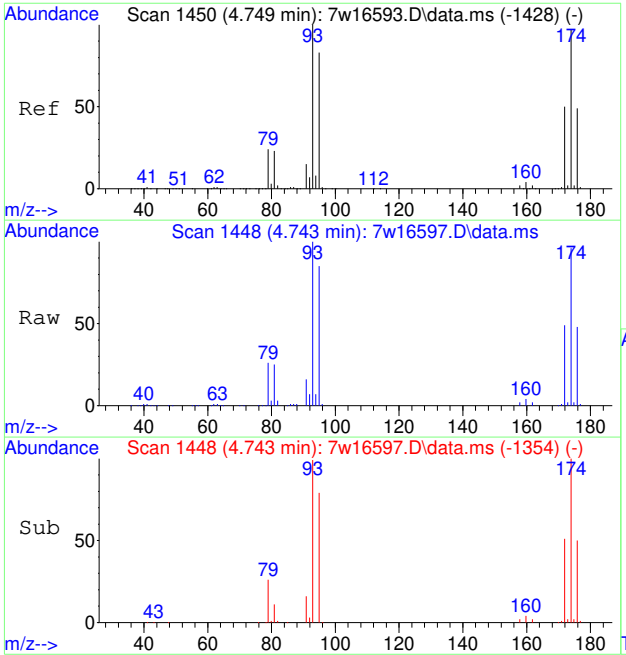


#56
1,2-DICHLOROPROPANE
Concen: 10.84 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 163448

Ion	Ratio	Lower	Upper
63	100		
65	29.3	20.5	38.1
76	39.1	27.1	50.3

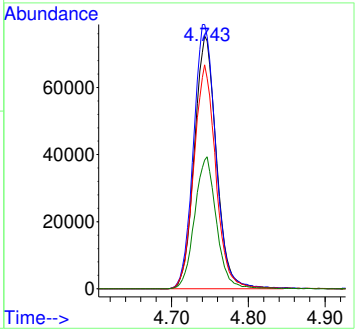


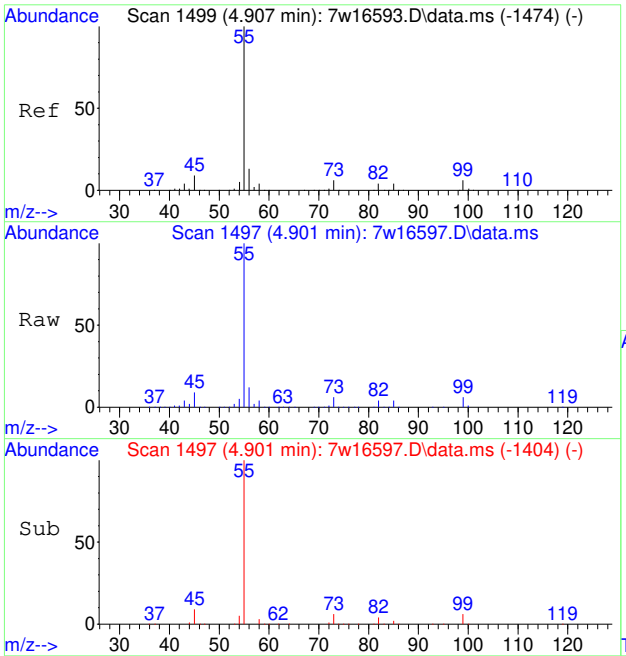


#57
DIBROMOMETHANE
Concen: 10.35 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:174 Resp: 150387

Ion	Ratio	Lower	Upper
174	100		
93	106.5	75.3	139.9
95	88.3	62.4	115.8
172	51.7	36.6	68.0

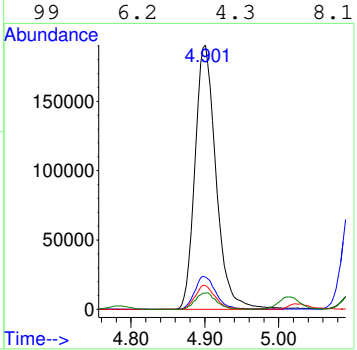


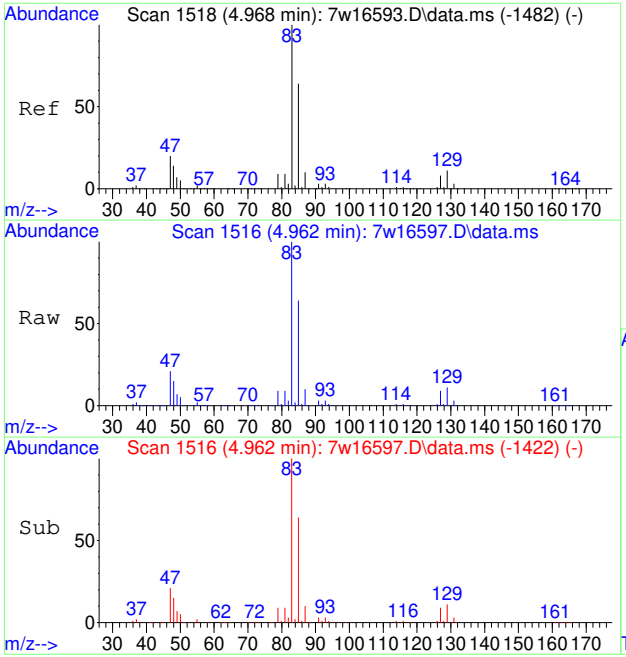


#58
ETHYL ACRYLATE
Concen: 11.17 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 376913

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.8	6.1	11.3
99	6.2	4.3	8.1

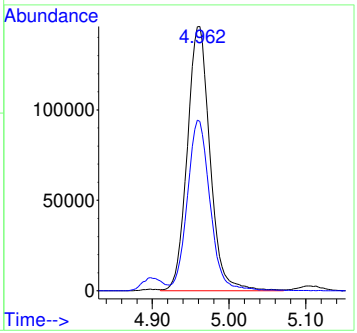


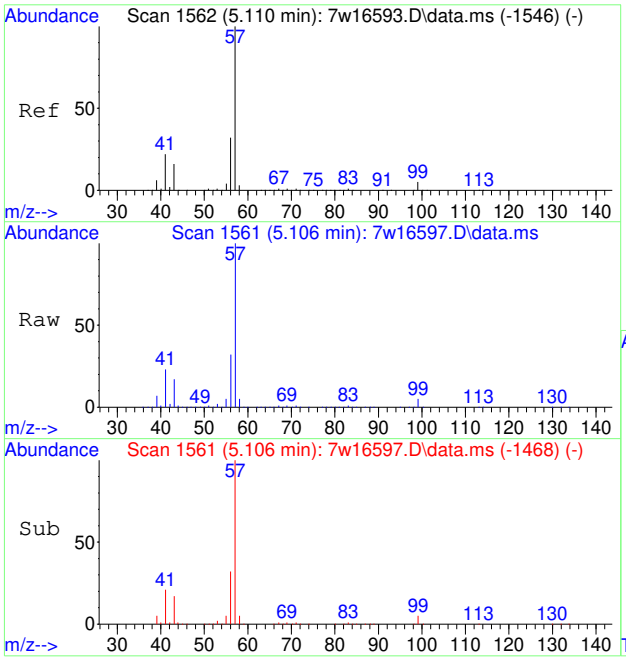


#59
BROMODICHLOROMETHANE
Concen: 10.90 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 300258

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

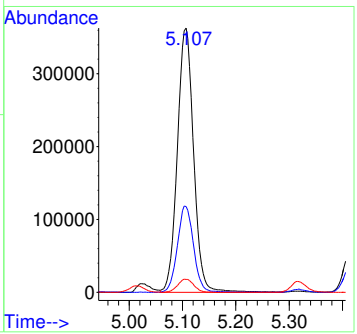


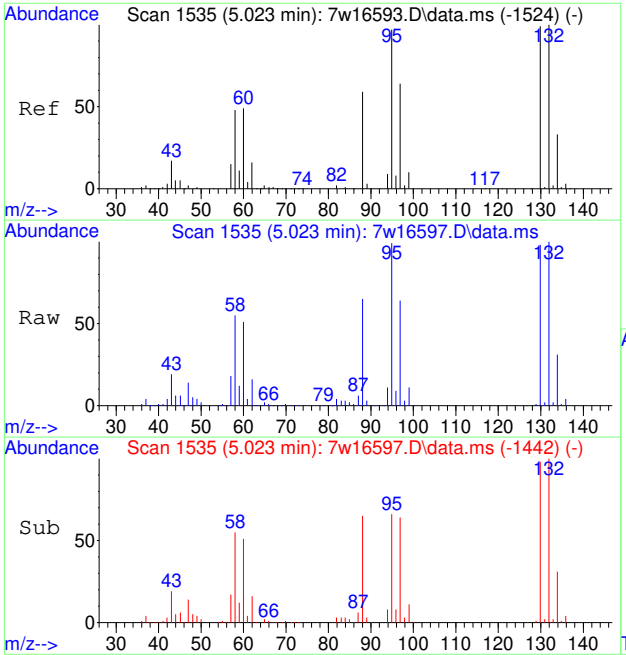


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.43 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 770282

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.0	3.6	6.8

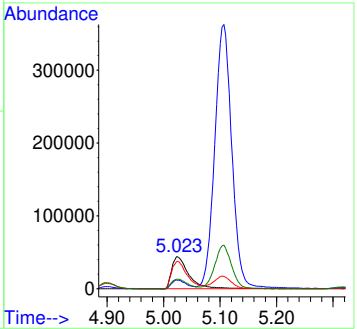


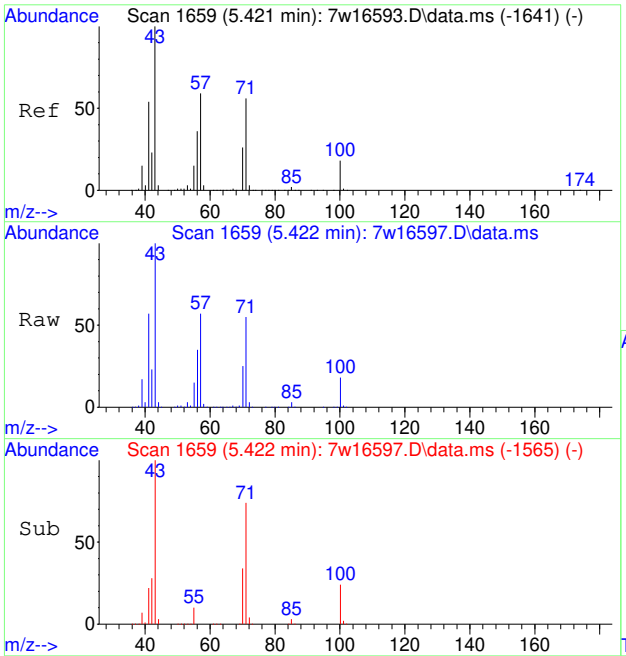


#61
1,4-DIOXANE
Concen: 11.72 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 88 Resp: 94601

Ion	Ratio	Lower	Upper
88	100		
57	23.9	16.7	30.9
58	77.5	52.4	97.4
43	26.8	18.5	34.3

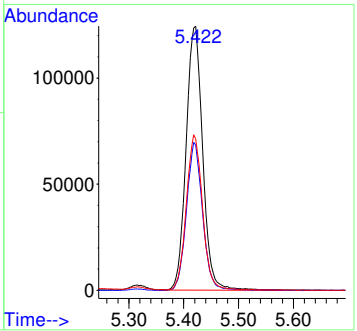


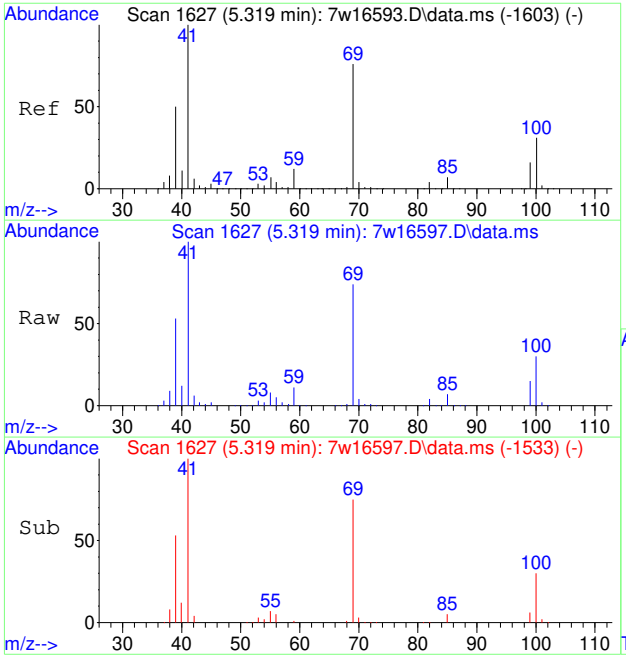


#62
HEPTANE
Concen: 10.72 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 261506

Ion	Ratio	Lower	Upper
43	100		
71	54.5	38.9	72.2
57	57.7	40.5	75.3

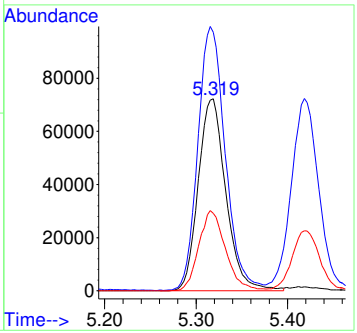


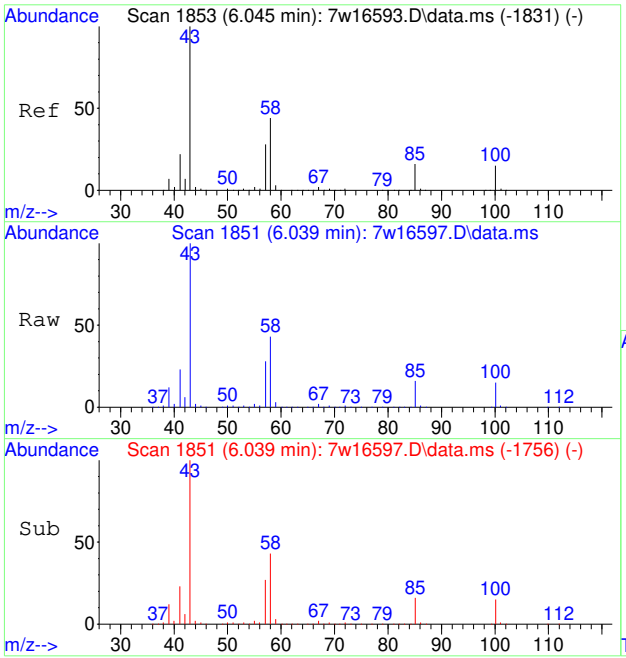


#63
METHYL METHACRYLATE
Concen: 11.09 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 152007

Ion	Ratio	Lower	Upper
69	100		
41	135.8	95.5	177.4
100	40.4	28.1	52.1

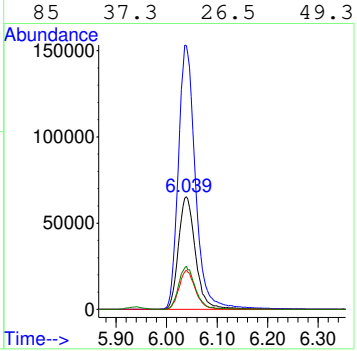


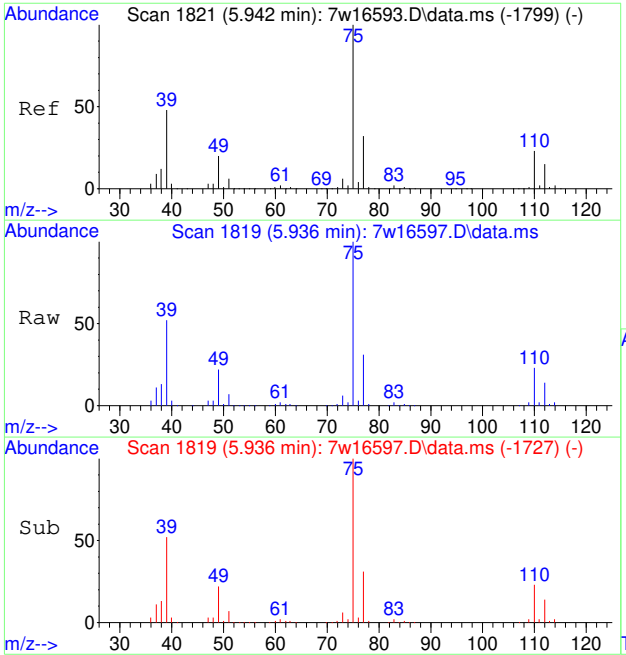


#64
METHYL ISOBUTYL KETONE
Concen: 10.57 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 154590

Ion	Ratio	Lower	Upper
58	100		
43	234.3	163.8	304.2
100	33.6	23.2	43.2
85	37.3	26.5	49.3

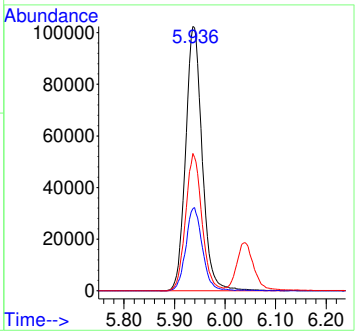


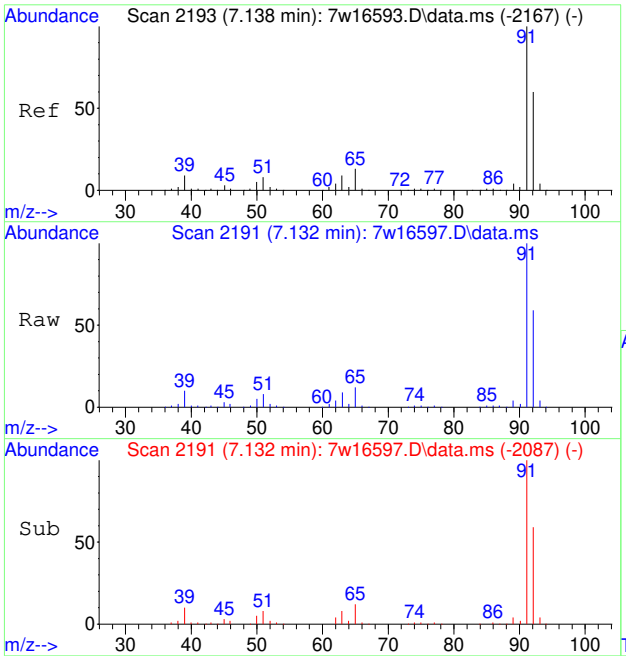


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.11 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 233811

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	41.0
39	51.1	35.7	66.3

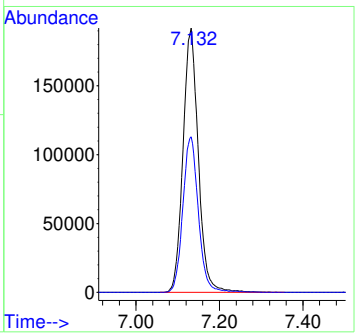


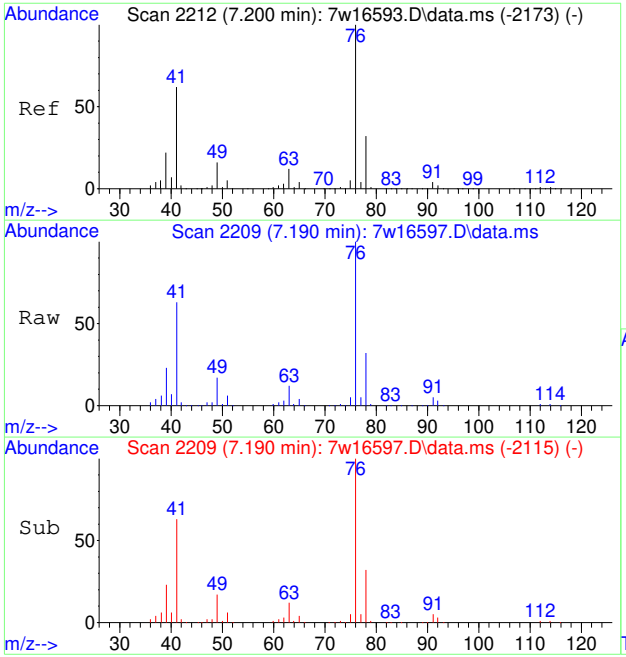


#66
TOLUENE
Concen: 11.25 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 488543

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

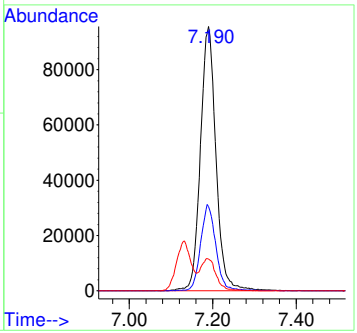


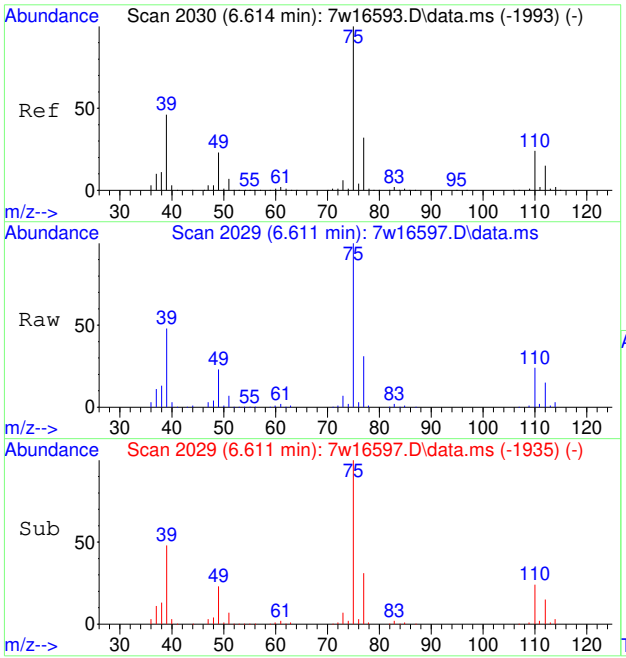


#67
1,3-DICHLOROPROPANE
Concen: 11.34 PPBV
RT: 7.190 min Scan# 2209
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 246988

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.4	41.6
63	12.0	8.3	15.5

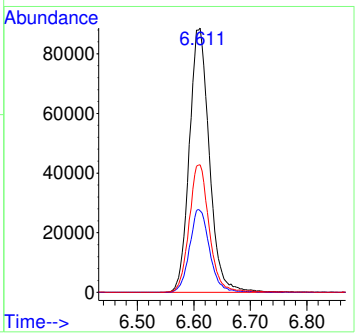


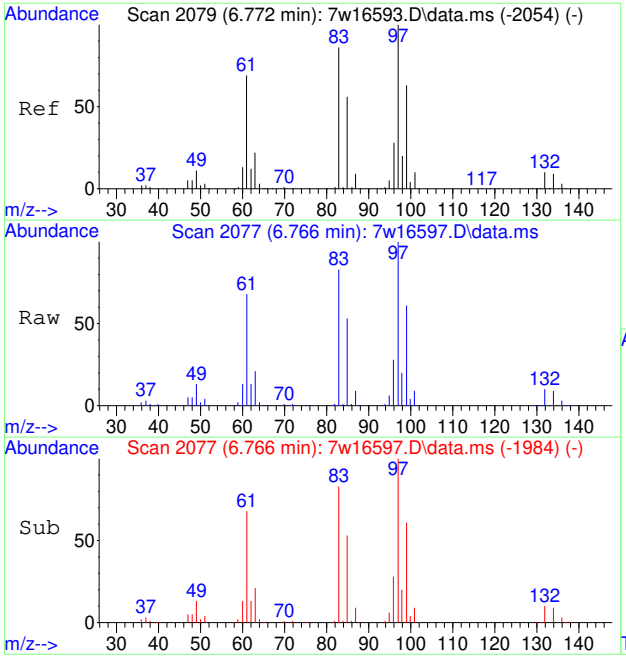


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 10.42 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 217661

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	48.8	33.9	63.0

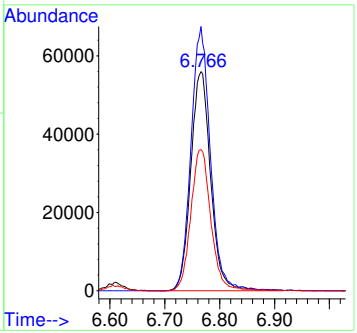


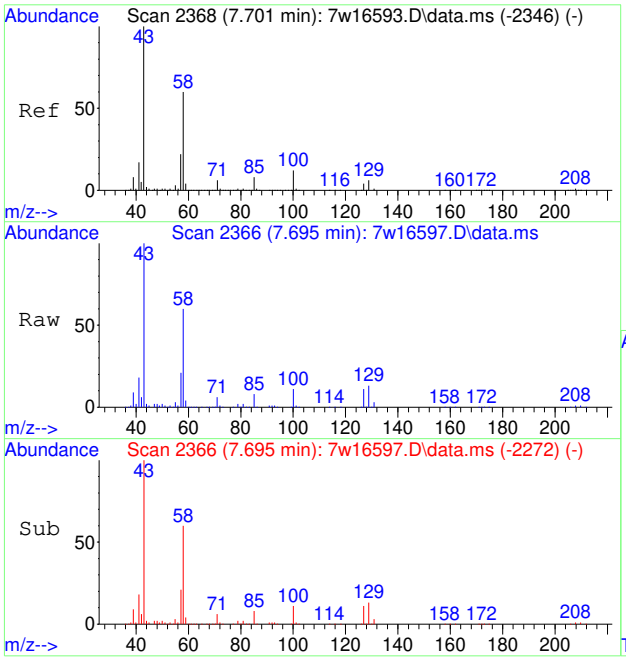


#69
1,1,2-TRICHLOROETHANE
Concen: 11.44 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 141620

Ion	Ratio	Lower	Upper
83	100		
97	117.7	81.2	150.8
85	64.6	45.1	83.7

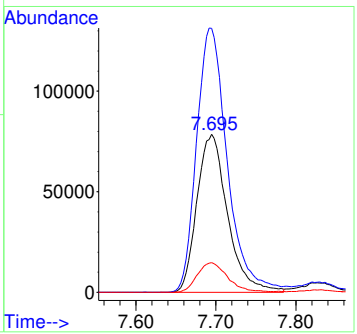


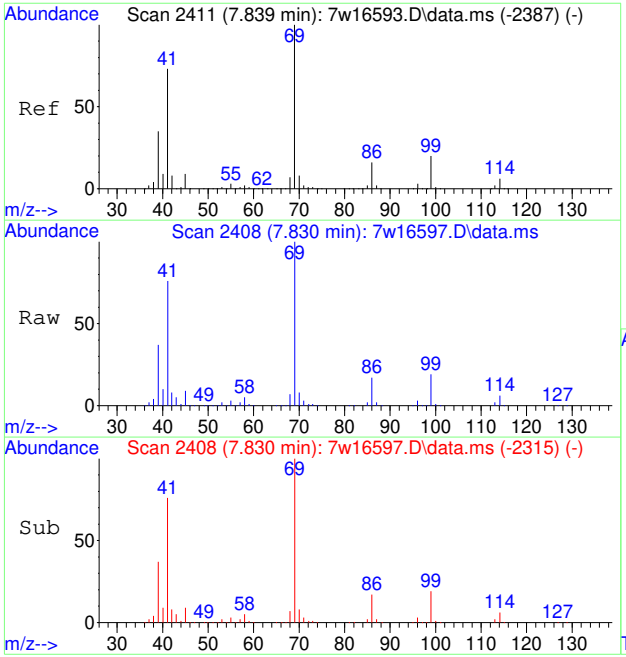


#70
2-HEXANONE
Concen: 10.26 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 209349

Ion	Ratio	Lower	Upper
58	100		
43	167.7	118.6	220.2
100	19.1	13.0	24.2

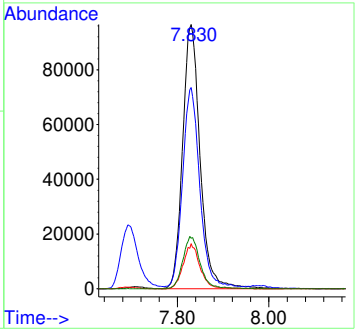


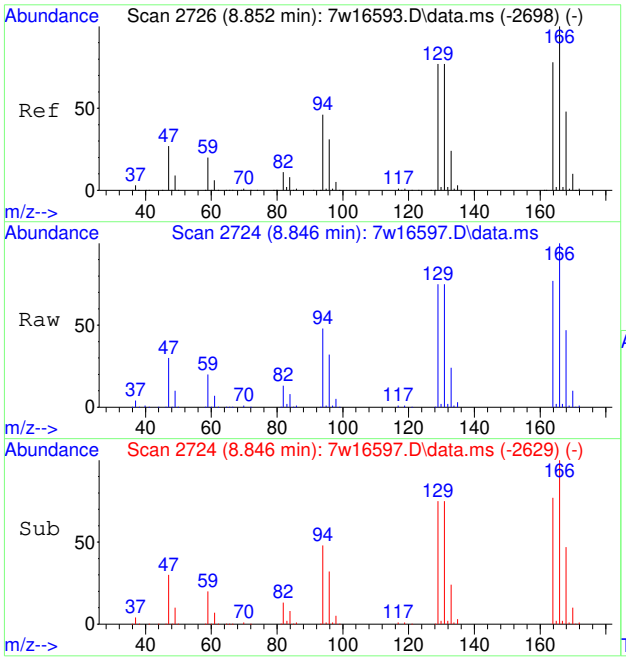


#71
ETHYL METHACRYLATE
Concen: 11.23 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 256728

Ion	Ratio	Lower	Upper
69	100		
41	75.7	53.6	99.6
86	16.4	11.3	20.9
99	19.3	13.8	25.6

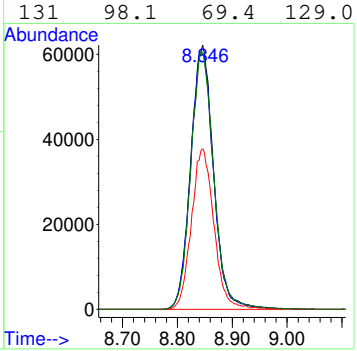


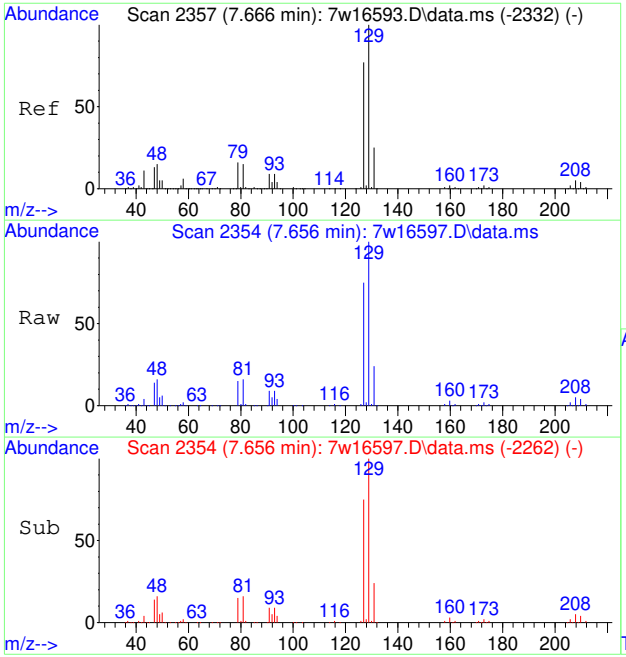


#72
TETRACHLOROETHENE
Concen: 11.40 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:164 Resp: 180607

Ion	Ratio	Lower	Upper
164	100		
129	98.9	69.6	129.2
168	60.0	42.5	78.9
131	98.1	69.4	129.0

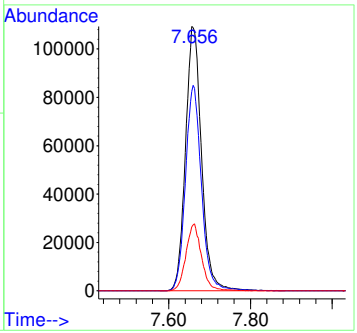


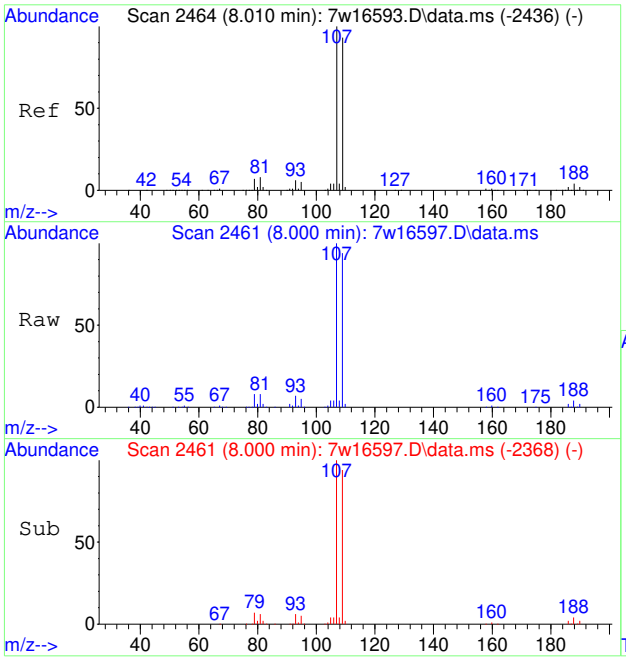


#73
DIBROMOCHLOROMETHANE
Concen: 11.82 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:129 Resp: 297263

Ion	Ratio	Lower	Upper
129	100		
127	77.7	54.7	101.7
131	24.7	17.4	32.4

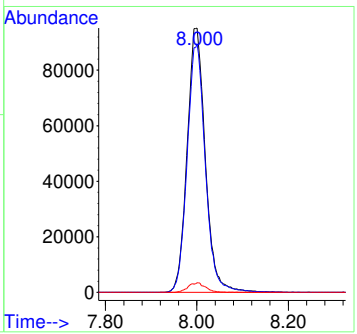


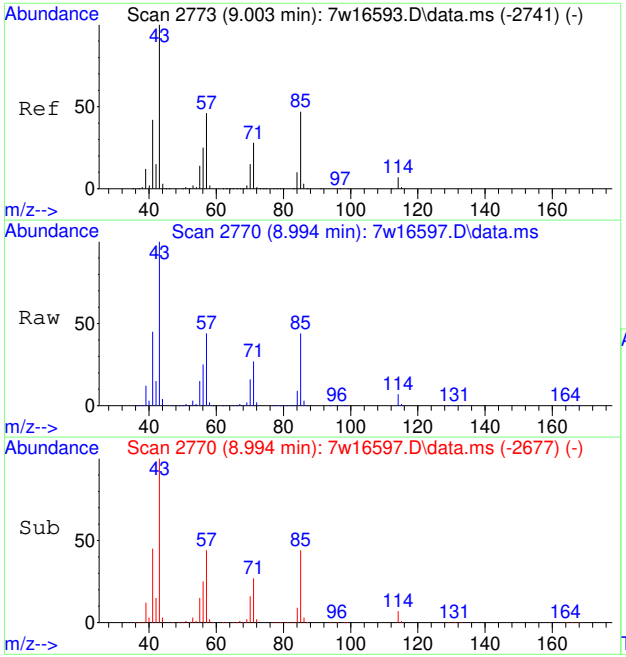


#74
1,2-DIBROMOETHANE
Concen: 11.75 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:107 Resp: 263017

Ion	Ratio	Lower	Upper
107	100		
109	94.1	66.1	122.8
188	3.5	2.5	4.6

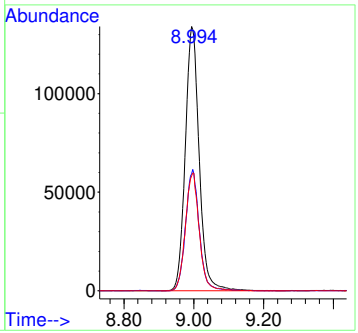


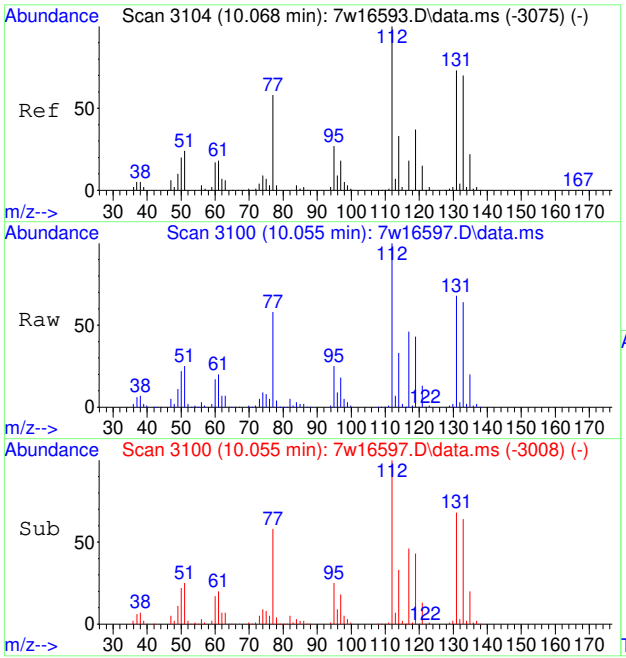


#75
OCTANE
Concen: 11.38 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 371823

Ion	Ratio	Lower	Upper
43	100		
85	45.2	31.8	59.0
57	44.5	31.4	58.2

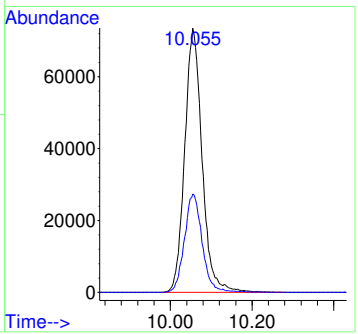


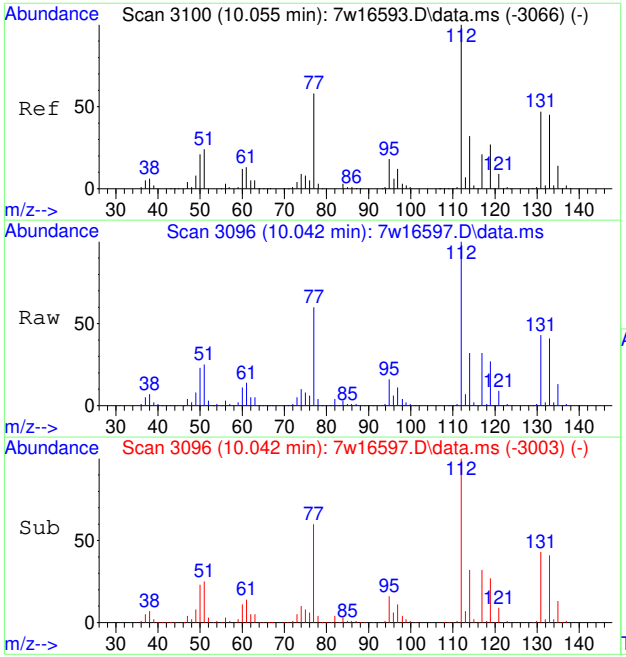


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 12.09 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:131 Resp: 217186

Ion	Ratio	Lower	Upper
131	100		
95	38.0	26.5	49.1

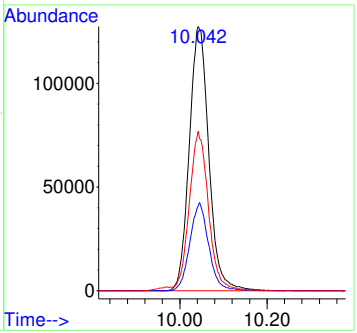


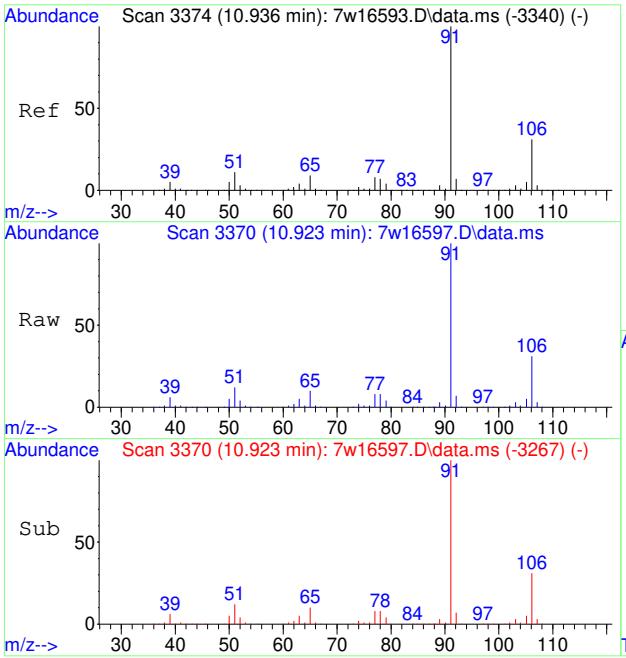


#78
CHLOROBENZENE
Concen: 11.61 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:112 Resp: 397219

Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.7
77	60.4	42.1	78.1

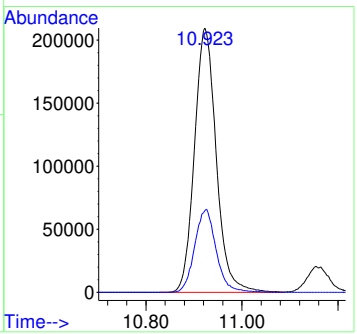


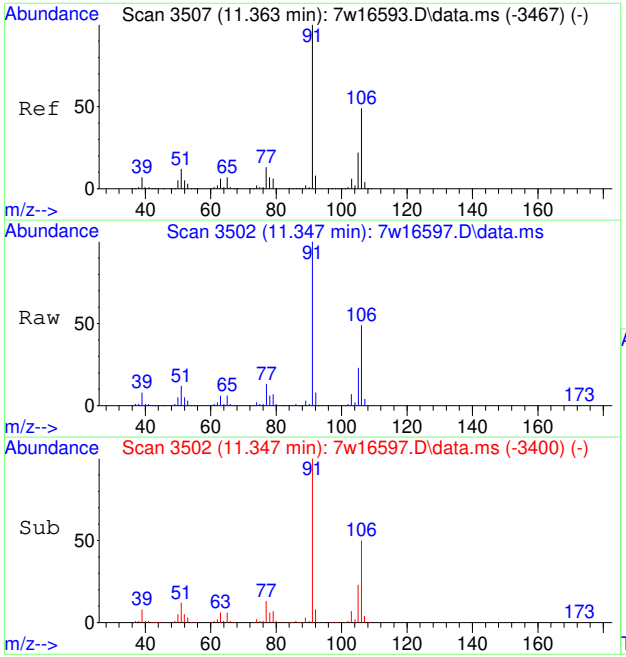


#79
ETHYLBENZENE
Concen: 11.76 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 659125

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.1	61.1

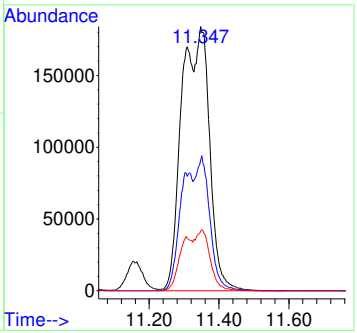


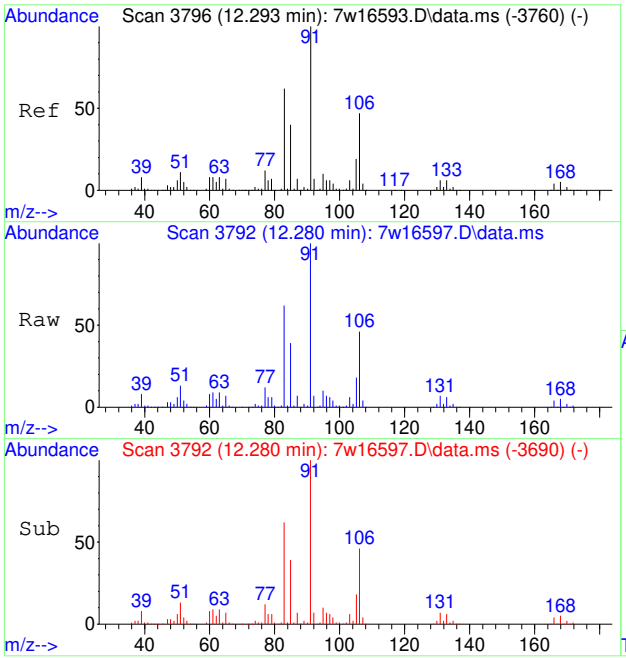


#80
M,P-XYLENE
Concen: 22.50 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 1021629

Ion	Ratio	Lower	Upper
91	100		
106	26.0	0.0	56.1
105	13.3	0.0	42.1

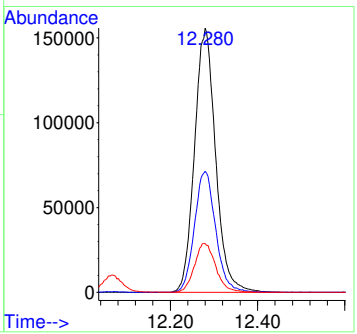


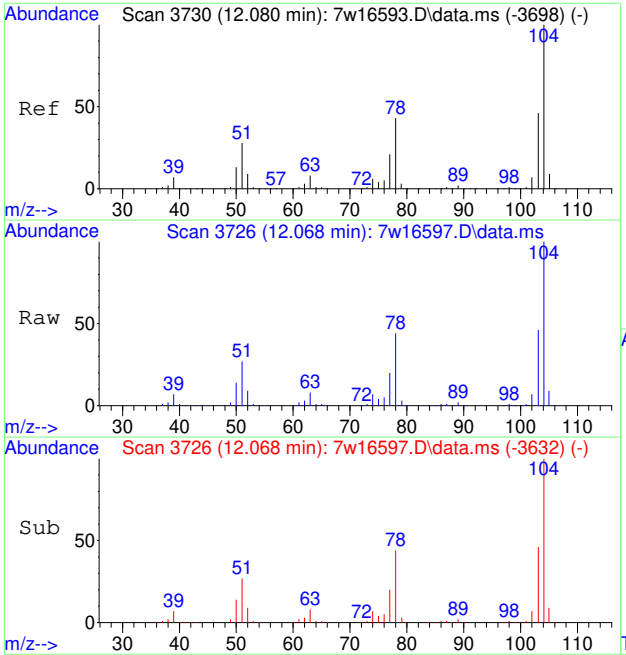


#81
O-XYLENE
Concen: 11.89 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 524115

Ion	Ratio	Lower	Upper
91	100		
106	45.8	31.8	59.0
105	18.5	13.0	24.2

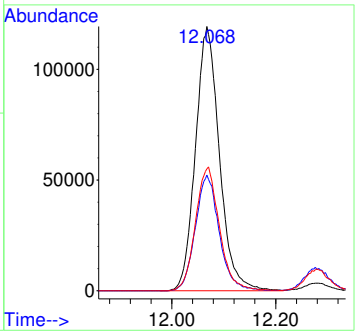


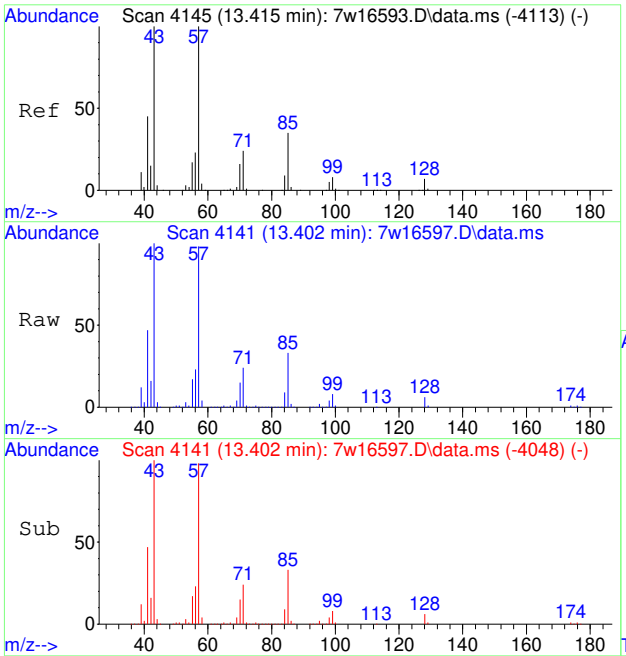


#82
STYRENE
Concen: 11.59 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:104 Resp: 383070

Ion	Ratio	Lower	Upper
104	100		
78	43.8	30.6	56.8
103	47.0	32.8	61.0

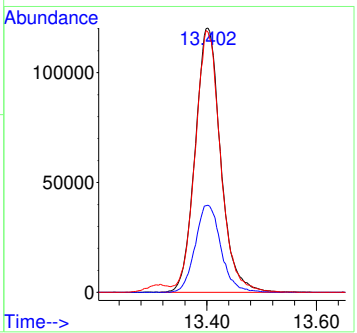


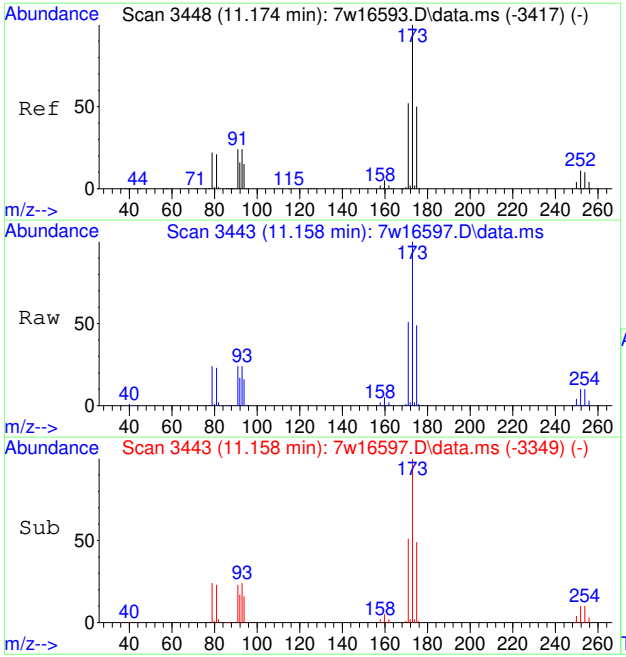


#83
NONANE
Concen: 11.35 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 389550

Ion	Ratio	Lower	Upper
43	100		
85	33.3	23.4	43.4
57	98.5	69.2	128.6

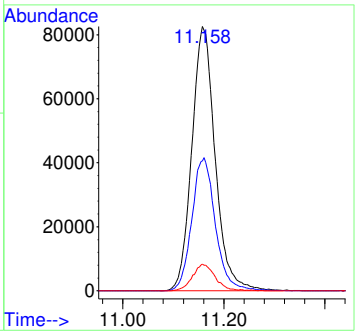


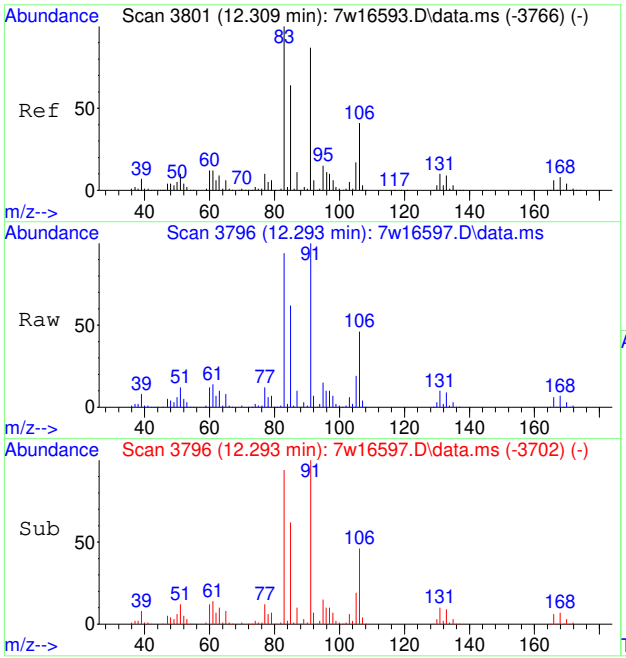


#84
BROMOFORM
Concen: 12.55 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:173 Resp: 265221

Ion	Ratio	Lower	Upper
173	100		
175	50.7	35.1	65.1
254	9.9	6.7	12.5

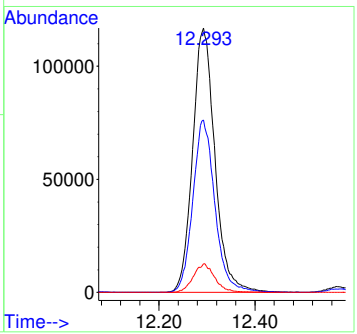


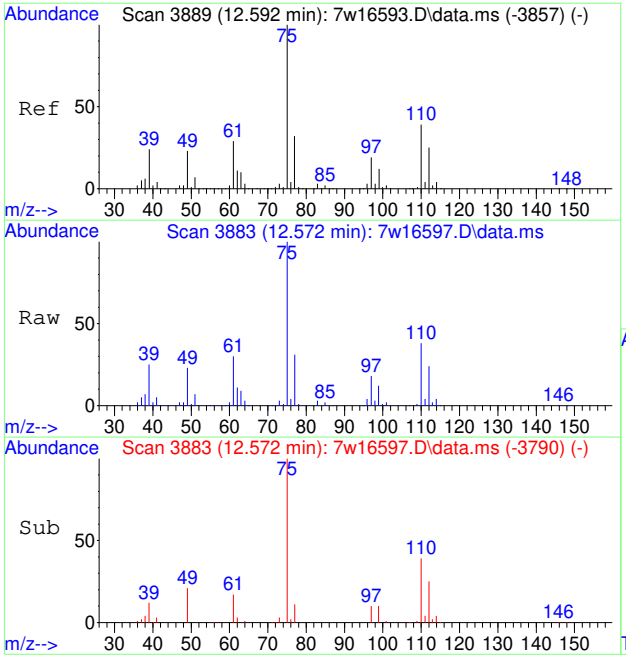


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 11.92 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 376337

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.5	7.3	13.5

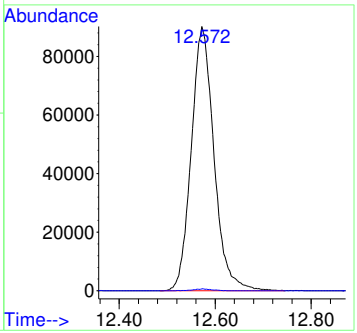


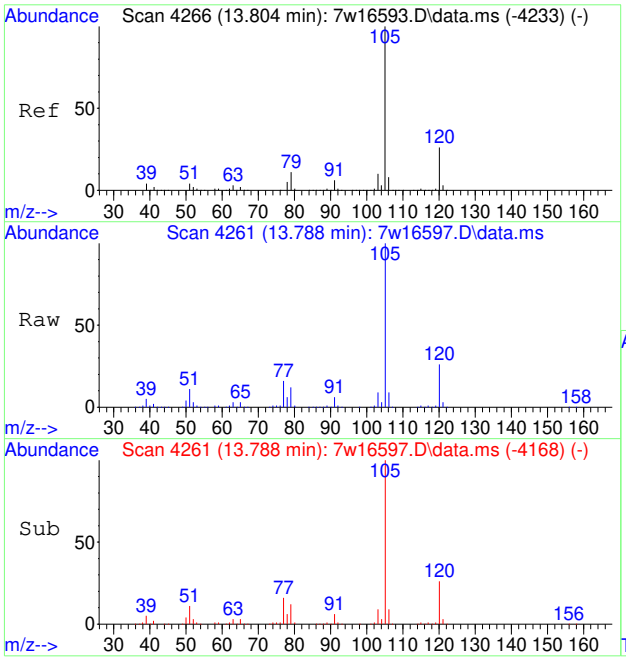


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.97 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 296228

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

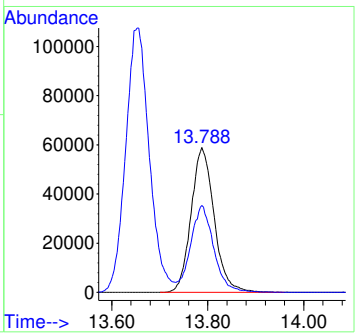


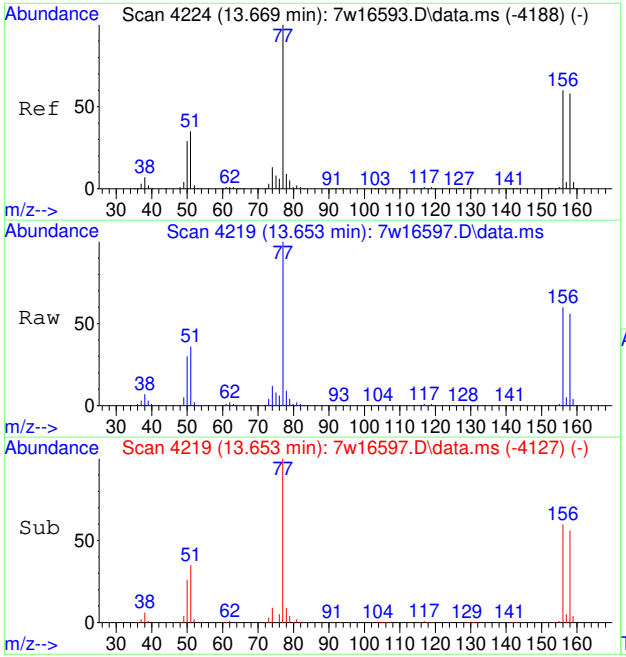


#88
ISOPROPYLBENZENE
Concen: 11.70 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 196063

Ion	Ratio	Lower	Upper
120	100		
77	60.5	42.5	78.9

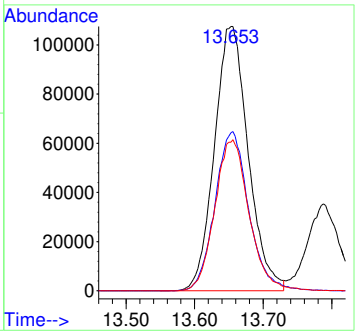


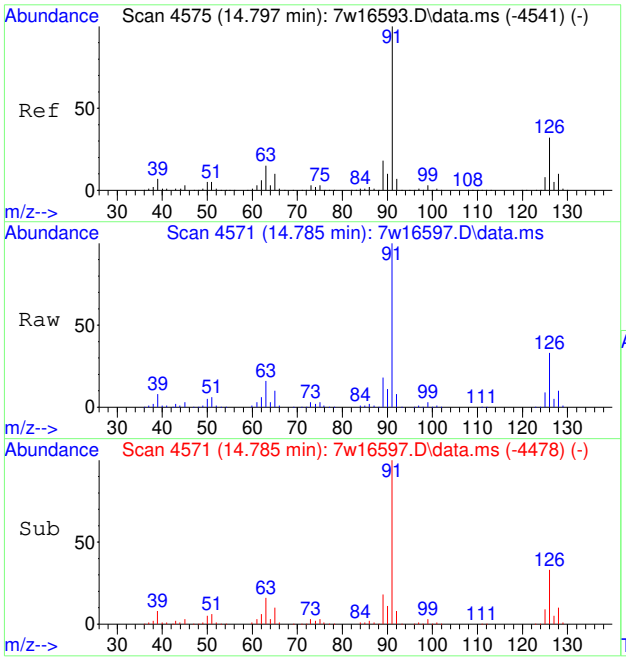


#89
BROMOBENZENE
Concen: 11.46 PPBV
RT: 13.653 min Scan# 4219
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 77 Resp: 368714

Ion	Ratio	Lower	Upper
77	100		
156	60.3	42.4	78.8
158	57.9	40.9	76.0

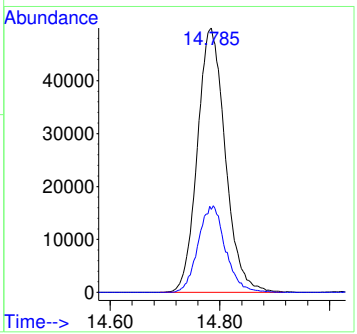


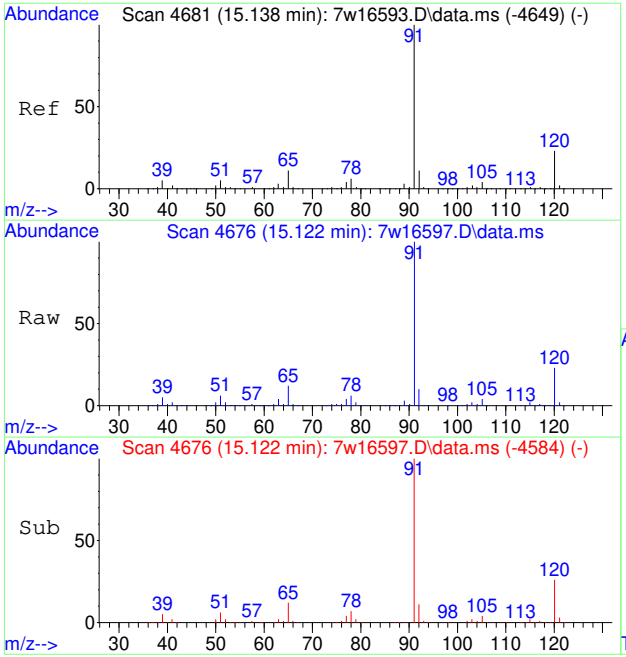


#90
2-CHLOROTOLUENE
Concen: 11.26 PPBV
RT: 14.785 min Scan# 4571
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:126 Resp: 175998

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

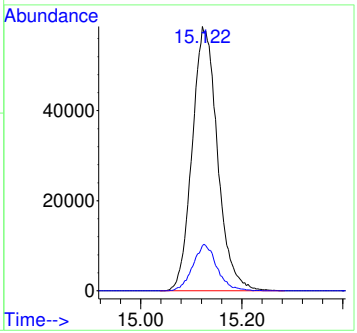


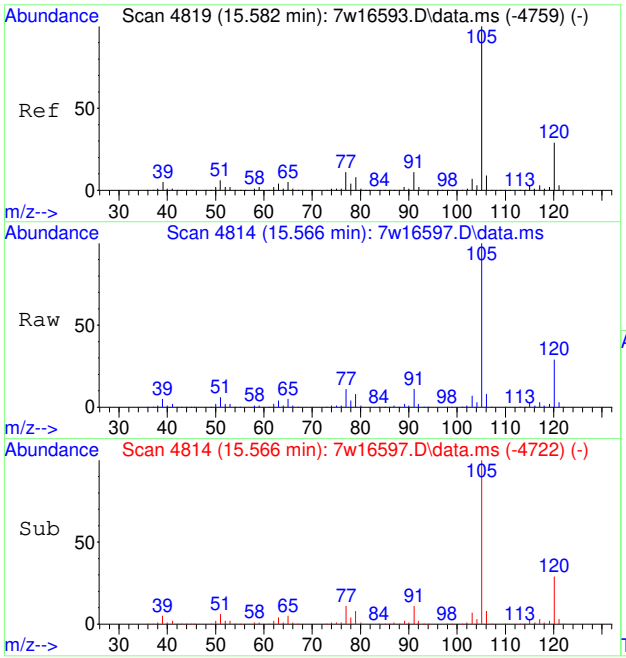


#91
N-PROPYLBENZENE
Concen: 11.48 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 204116

Ion	Ratio	Lower	Upper
120	100		
105	16.8	11.5	21.5

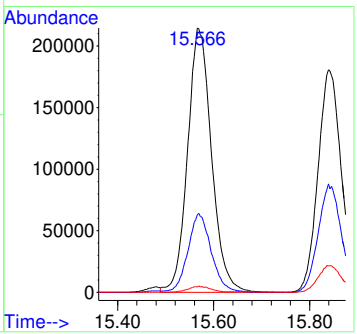


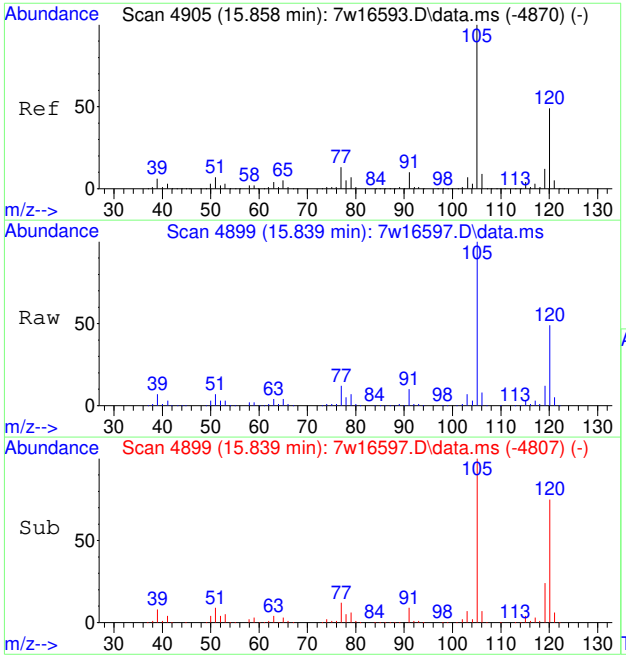


#92
4-ETHYLTOLUENE
Concen: 11.28 PPBV
RT: 15.566 min Scan# 4814
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 742534

Ion	Ratio	Lower	Upper
105	100		
120	29.5	20.7	38.5
119	2.3	1.6	3.0

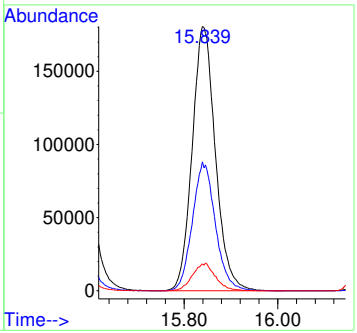


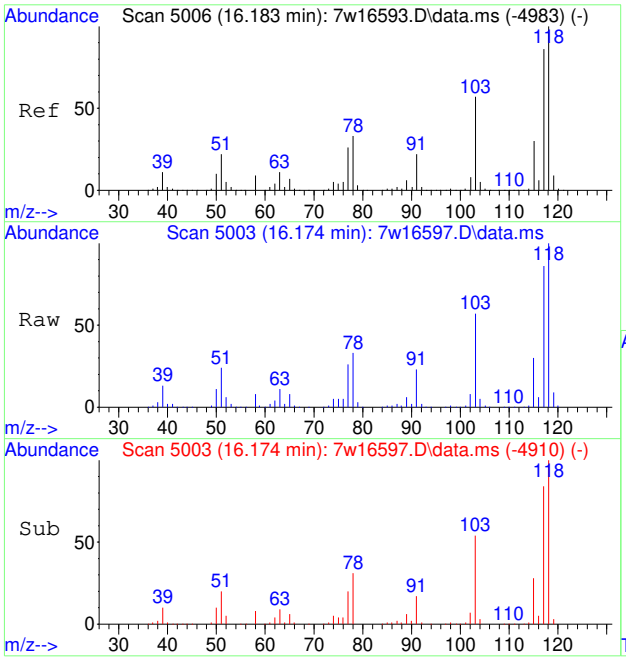


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.36 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 622476

Ion	Ratio	Lower	Upper
105	100		
120	48.2	34.0	63.2
91	10.4	7.3	13.7

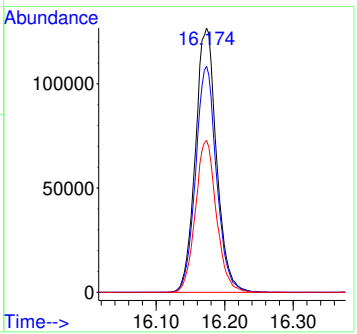


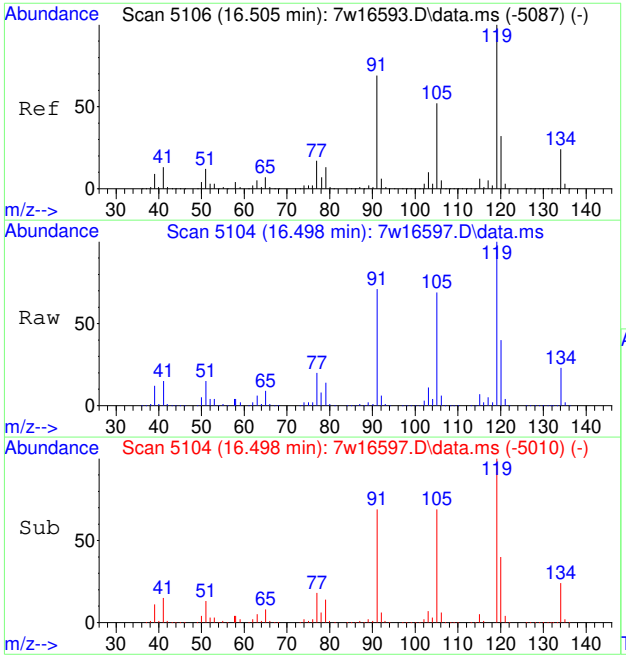


#94
ALPHA-METHYLSTYRENE
Concen: 10.00 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:118 Resp: 271625

Ion	Ratio	Lower	Upper
118	100		
117	84.6	59.6	110.8
103	57.1	40.3	74.9

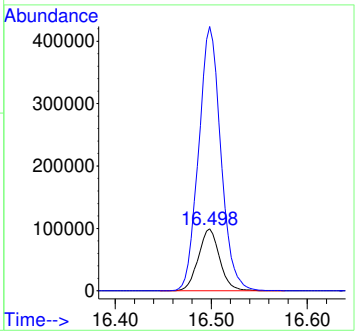


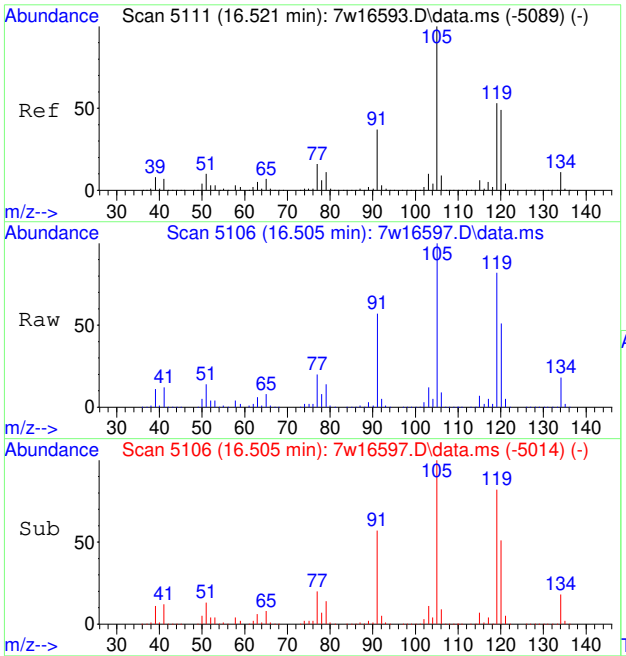


#95
TERT-BUTYLBENZENE
Concen: 11.43 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 152633

Ion	Ratio	Lower	Upper
134	100		
119	446.8	311.3	578.1

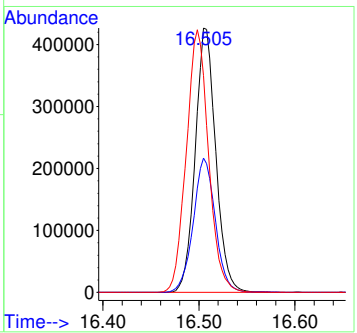


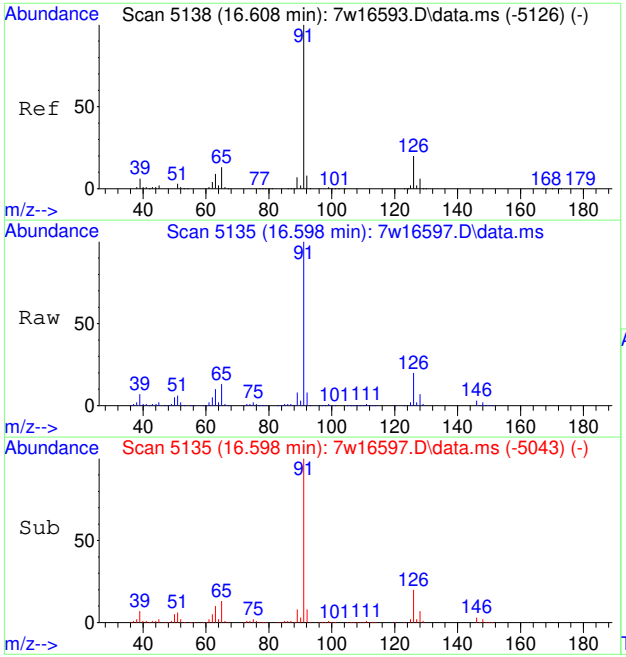


#96
1,2,4-TRIMETHYLBENZENE
Concen: 11.67 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 633879

Ion	Ratio	Lower	Upper
105	100		
120	54.8	37.9	70.5
119	107.6	74.3	137.9

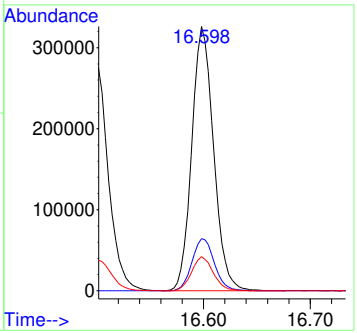


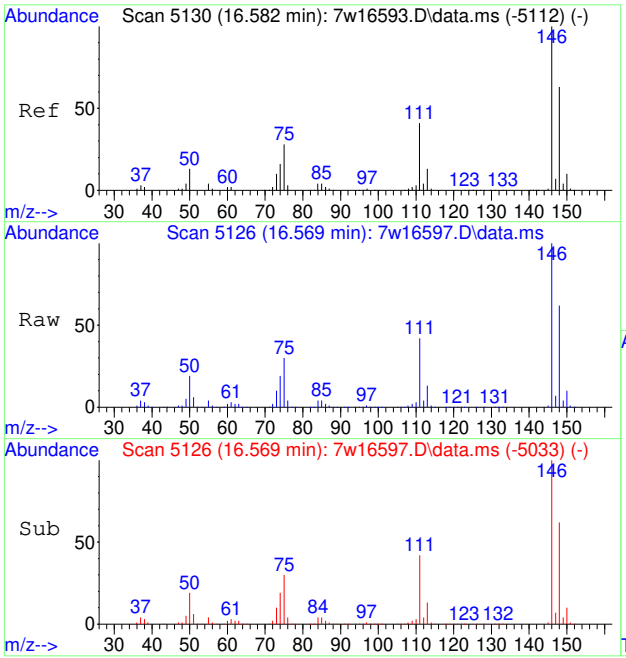


#97
BENZYL CHLORIDE
Concen: 10.58 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 464197

Ion	Ratio	Lower	Upper
91	100		
126	20.2	14.3	26.5
65	12.8	9.2	17.0

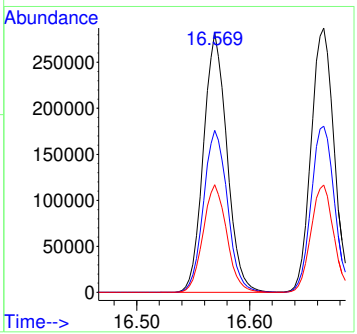


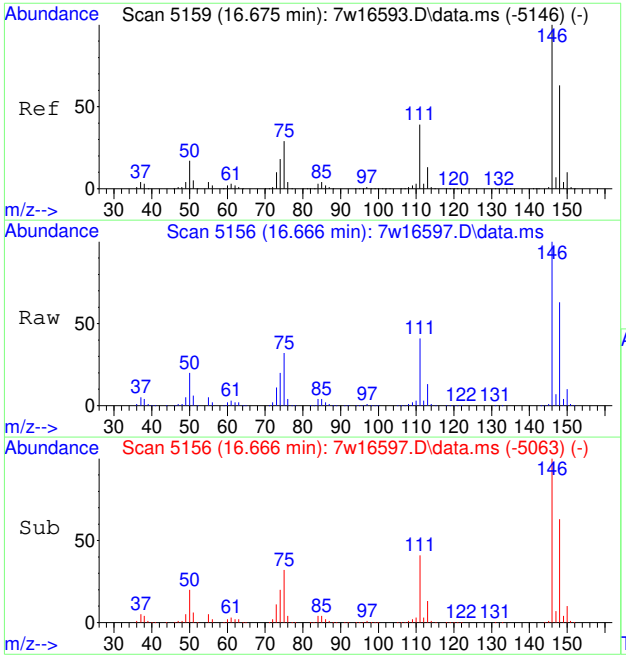


#98
M-DICHLOROBENZENE
Concen: 10.91 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 406824

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.6	82.8
111	41.7	29.3	54.3

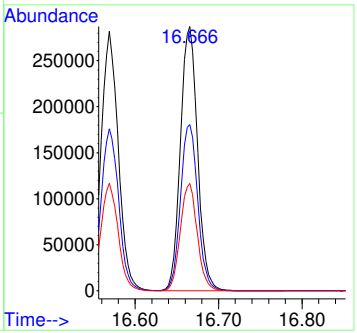


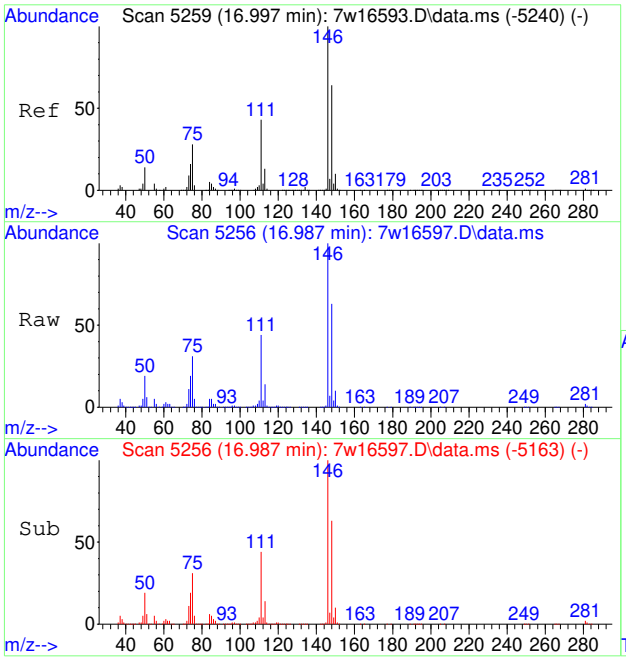


#99
P-DICHLOROBENZENE
Concen: 11.12 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 408776

Ion	Ratio	Lower	Upper
146	100		
148	63.5	44.2	82.2
111	40.2	28.0	52.0

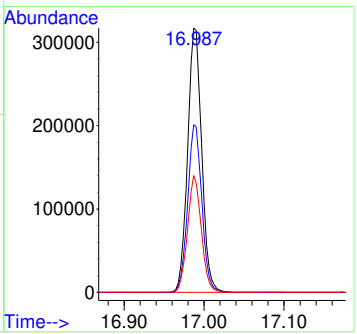


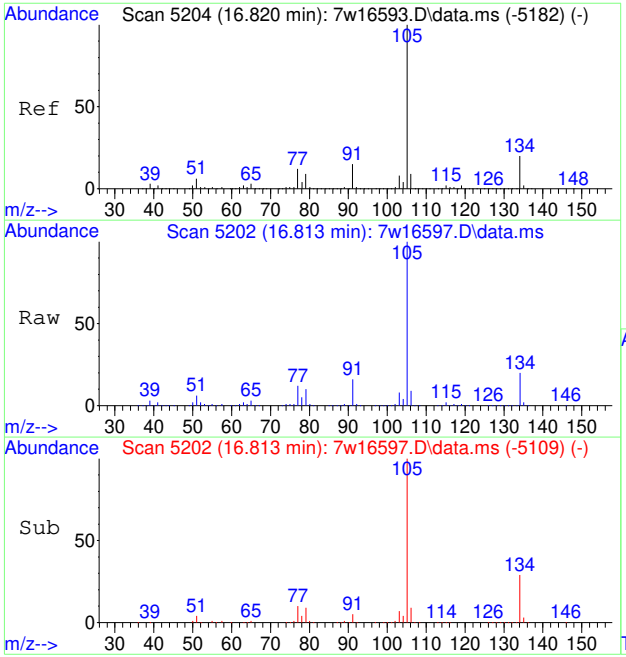


#100
O-DICHLOROBENZENE
Concen: 11.22 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 388114

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	43.4	30.4	56.4

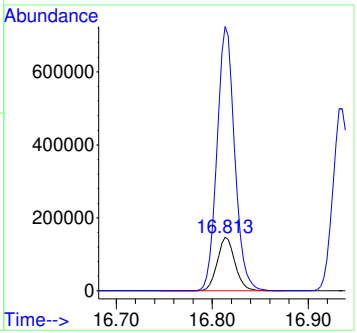


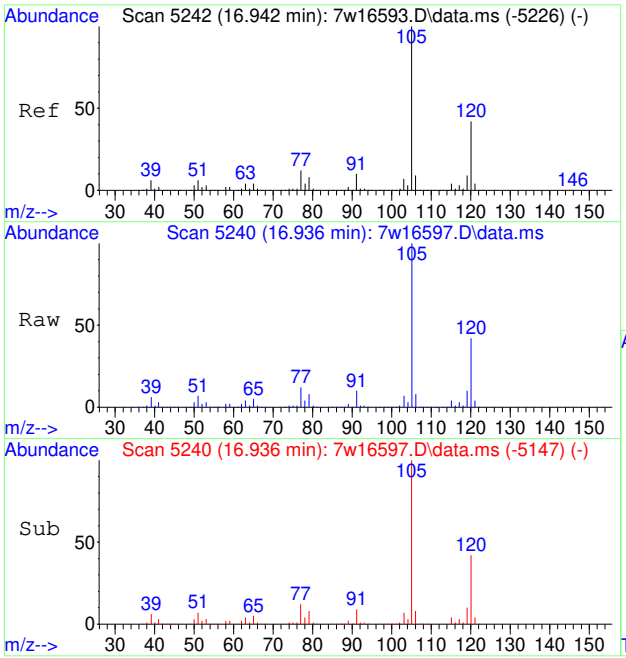


#101
SEC-BUTYLBENZENE
Concen: 11.81 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 187876

Ion	Ratio	Lower	Upper
134	100		
105	493.2	344.8	640.3

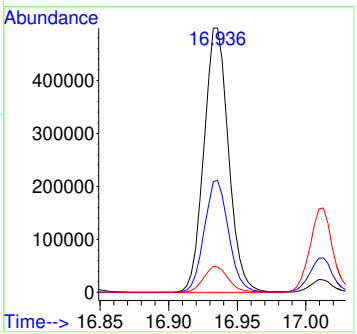


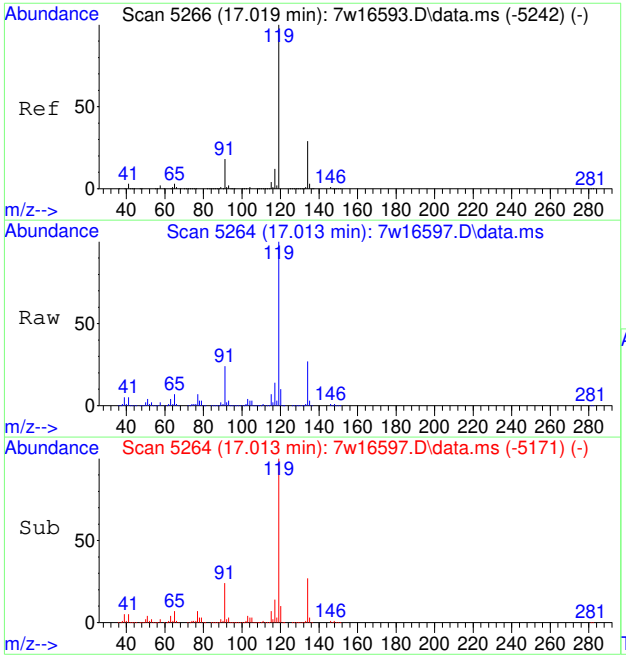


#102
1,2,3-TRIMETHYLBENZENE
Concen: 11.41 PPBV
RT: 16.936 min Scan# 5240
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 621174

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	10.0	7.0	13.0

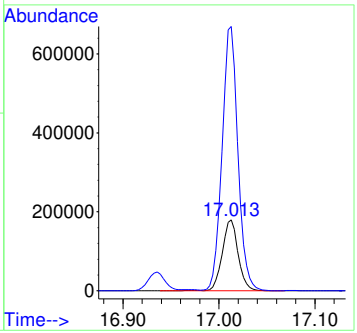


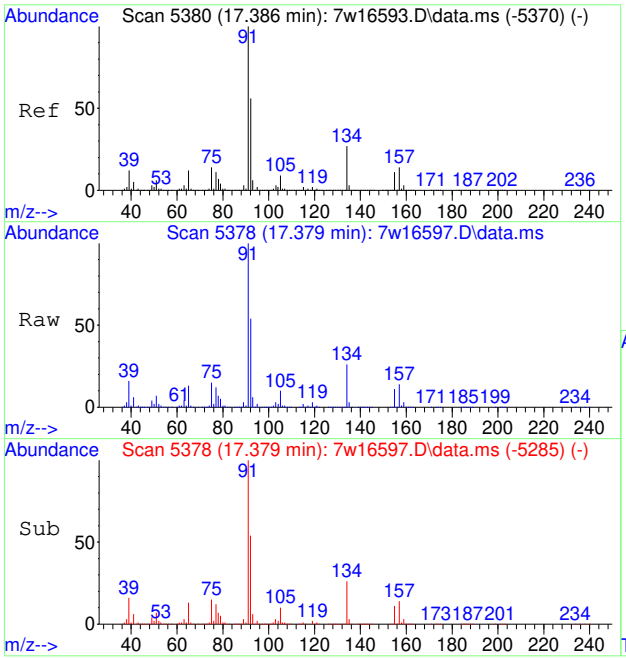


#103
P-ISOPROPYLTOLUENE
Concen: 11.68 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 206409

Ion	Ratio	Lower	Upper
134	100		
119	372.6	261.4	485.4

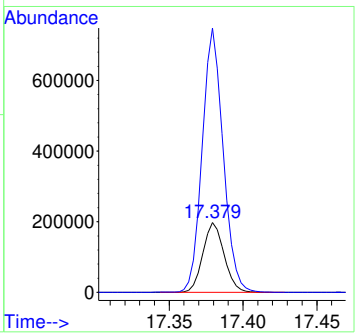


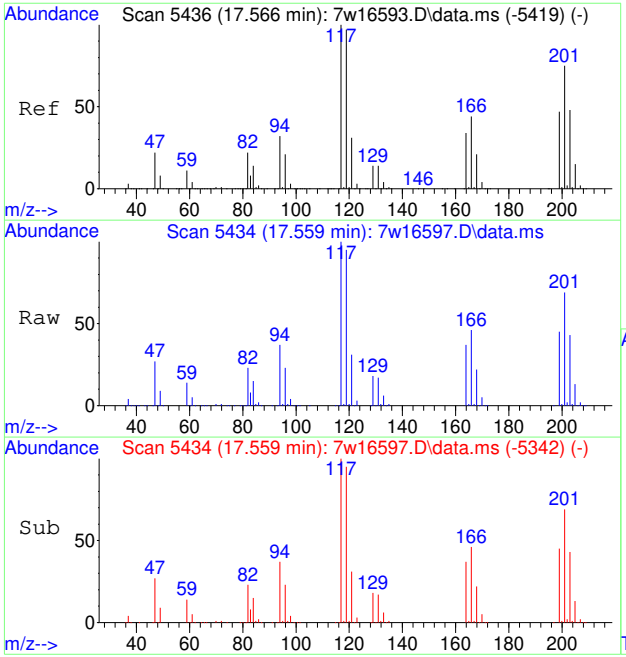


#104
N-BUTYLBENZENE
Concen: 11.69 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 197029

Ion	Ratio	Lower	Upper
134	100		
91	373.5	261.0	484.8

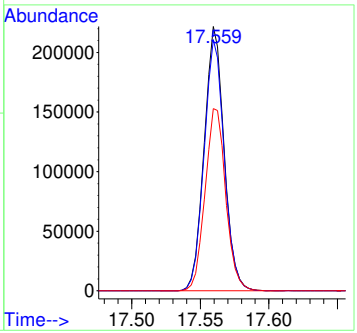


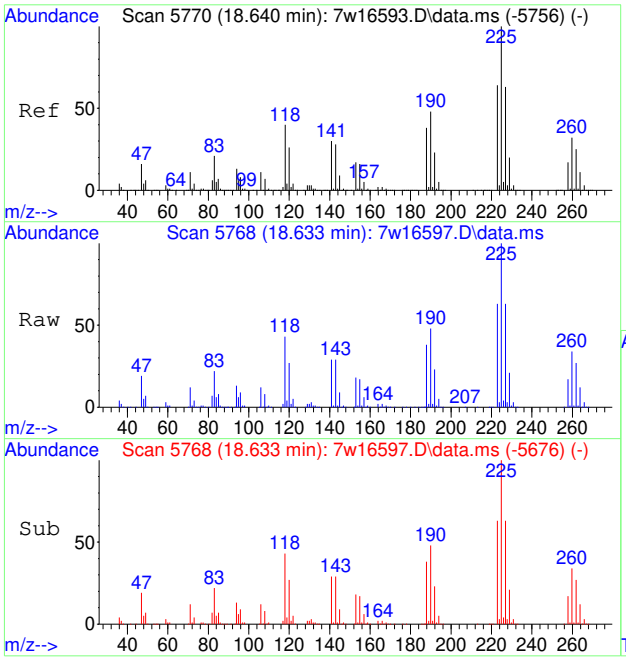


#105
HEXACHLOROETHANE
Concen: 10.80 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 224249

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	71.3	49.8	92.6

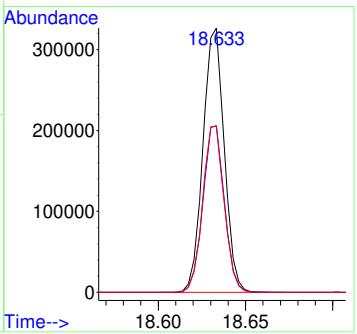


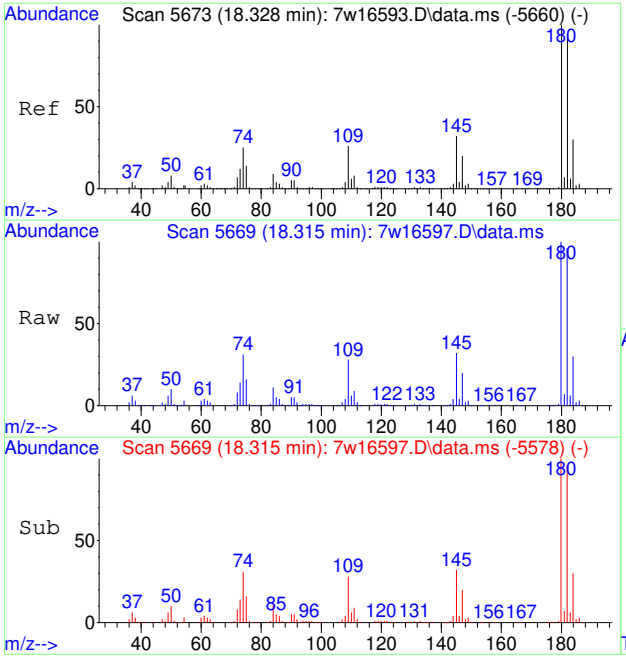


#106
HEXACHLOROBUTADIENE
Concen: 11.26 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:225 Resp: 277087

Ion	Ratio	Lower	Upper
225	100		
227	63.4	44.6	82.8
223	63.5	44.6	82.8

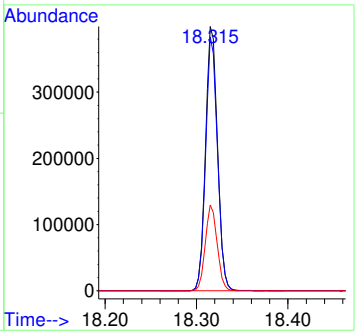


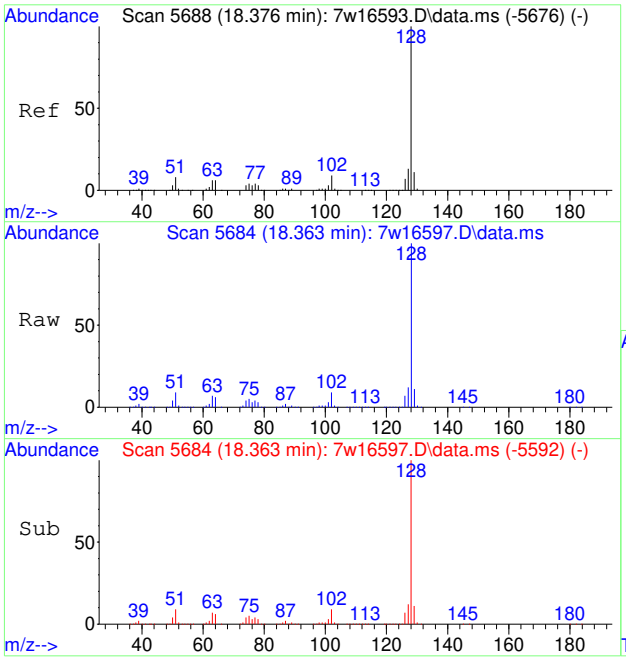


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.29 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:180 Resp: 362853

Ion	Ratio	Lower	Upper
180	100		
182	95.0	66.6	123.6
145	32.1	22.5	41.9

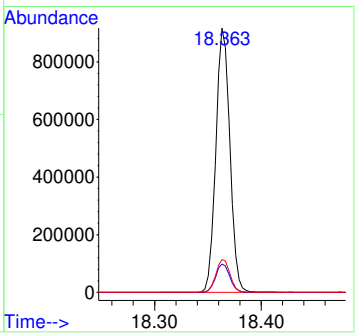


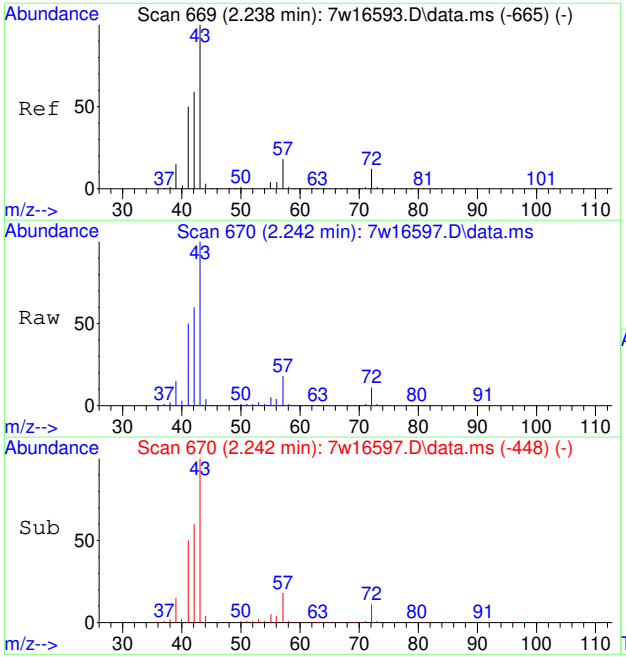


#108
NAPHTHALENE
Concen: 12.65 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:128 Resp: 837609

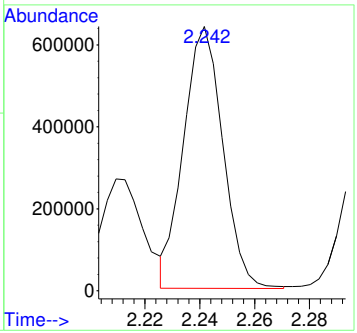
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.6	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 10.37 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:TIC Resp: 634578



Manual Integration Approval Summary

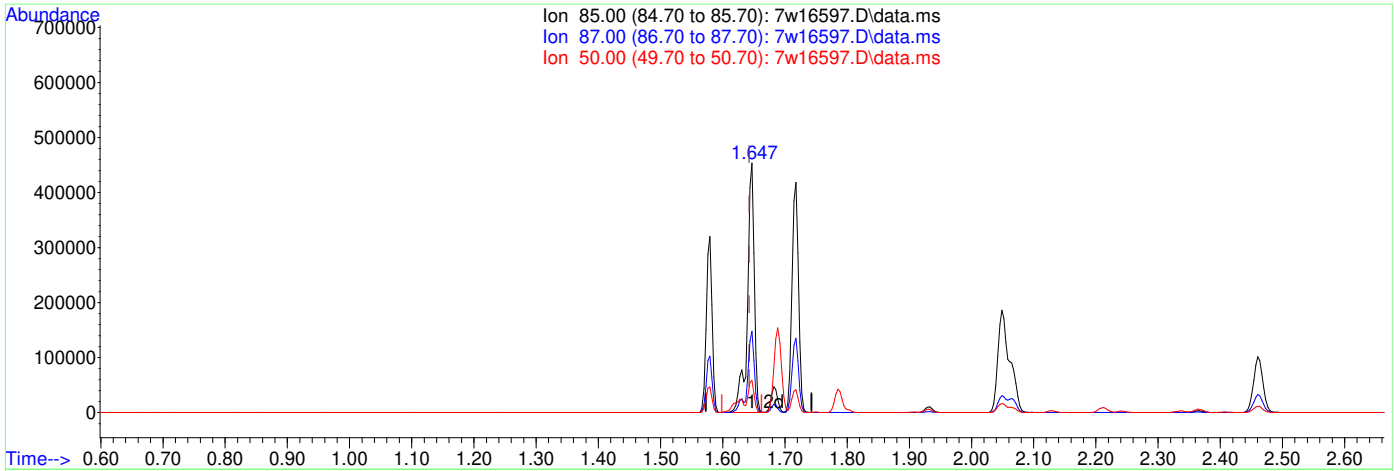
Sample Number: V7W577-ICV577
Lab FileID: 7W16597.D
Injection Time: 08/07/25 18:07
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

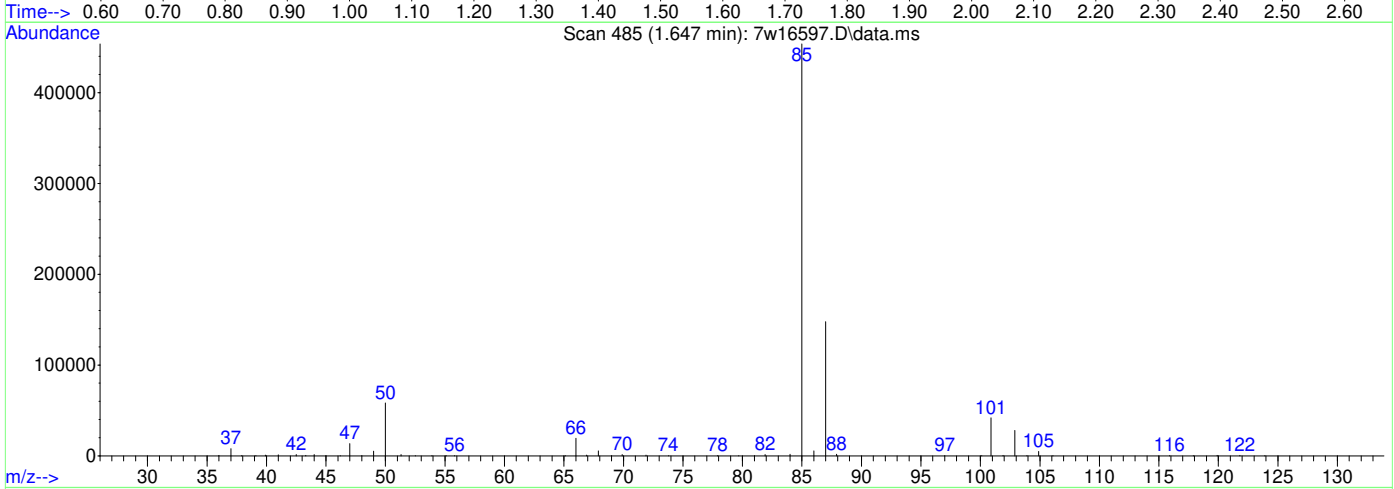
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.49PPBV

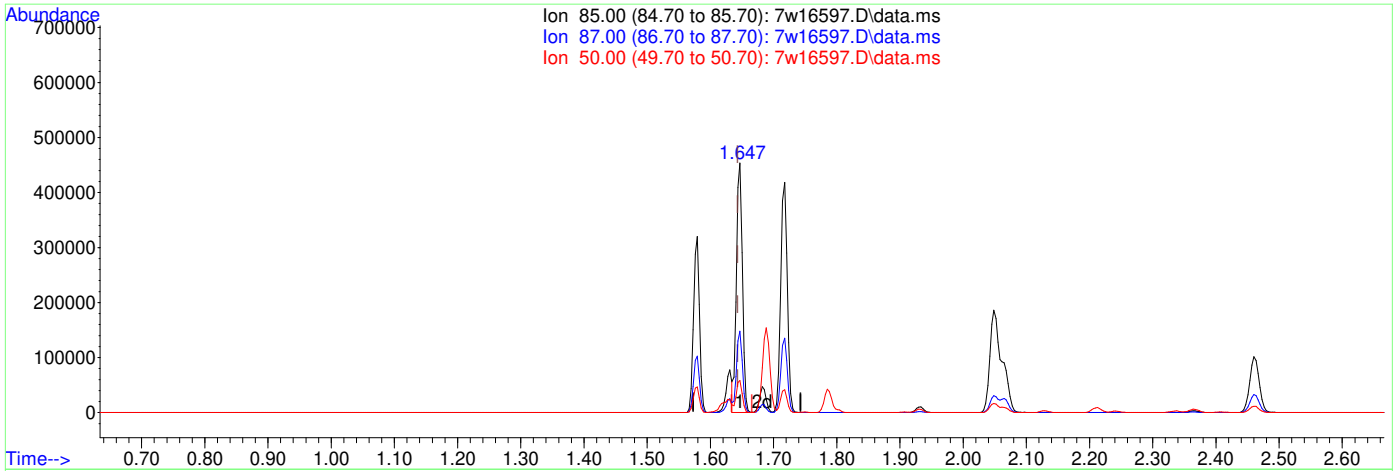
response 350117

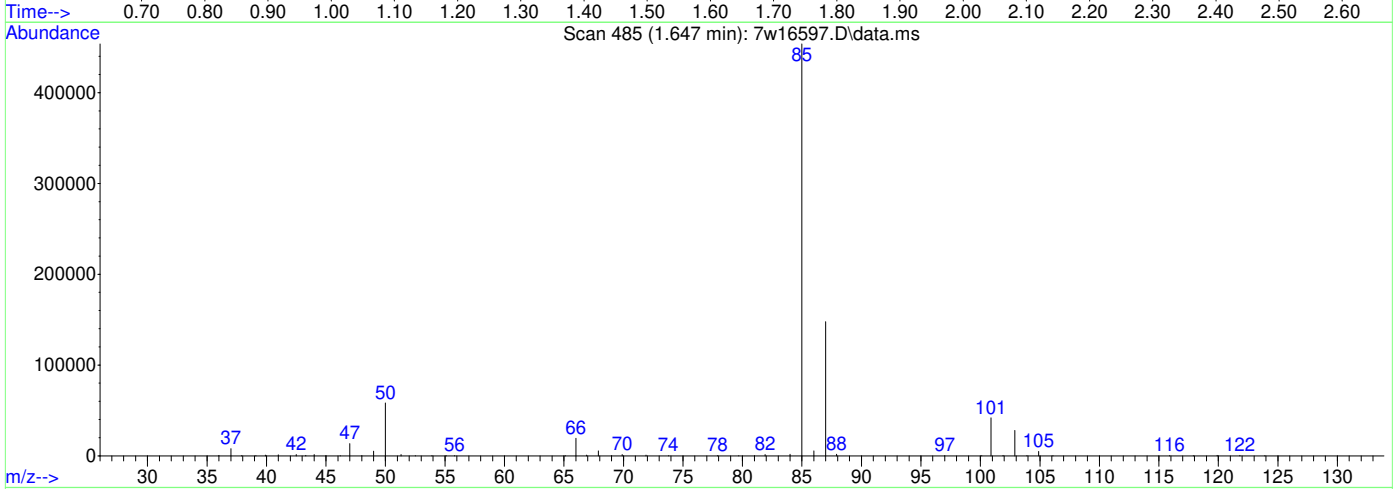
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.48
50.00	19.30	18.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 11.58PPBV m

response 300519

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.84
50.00	19.30	21.93
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	116358	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	571811	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	520899	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	116358	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	419664	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	163088	11.5539	PPBV		99
3) FREON 152A	1.608	65	78406	10.7669	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	33446	10.5791	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	175760	11.5540	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.647	85	290630m	10.4293	PPBV		
7) PROPYLENE	1.631	41	95474	10.1297	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.685	65	251622	10.1488	PPBV		98
9) FREON 114	1.717	85	287996	10.0264	PPBV		99
10) CHLOROMETHANE	1.688	52	32928	8.2395	PPBV		99
11) VINYL CHLORIDE	1.750	62	117529m	8.3053	PPBV		
12) 1,3-BUTADIENE	1.788	54	94511	8.4555	PPBV		99
13) N-BUTANE	1.801	43	162747	8.6049	PPBV	#	99
14) BROMOMETHANE	1.862	94	104528	9.5260	PPBV		99
15) CHLOROETHANE	1.910	64	64945	8.4552	PPBV		98
16) DICHLOROFLUOROMETHANE	1.933	67	245173	9.2174	PPBV		99
17) ACETONITRILE	1.997	41	92860	7.0259	PPBV		100
18) ACROLEIN	2.039	56	51884	8.2638	PPBV		96
19) FREON 123	2.052	83	271349	10.1251	PPBV		99
20) FREON 123A	2.068	117	167245	10.5339	PPBV		92
21) TRICHLOROFLUOROMETHANE	2.132	101	315449	10.4227	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	235756	9.1923	PPBV		97
23) ACETONE	2.074	58	61465	8.7655	PPBV		95
24) PENTANE	2.245	42	119731	8.6199	PPBV		97
25) IODOMETHANE	2.306	142	302044	10.8471	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.331	96	113502	9.8382	PPBV		92
27) CARBON DISULFIDE	2.466	76	295672	9.0324	PPBV		99
28) ETHANOL	1.936	45	59610	8.7303	PPBV		99
29) BROMOETHENE	2.007	106	107454	9.7540	PPBV		99
30) ACRYLONITRILE	2.212	52	90680	9.1962	PPBV		99
31) METHYLENE CHLORIDE	2.370	84	100570	8.8927	PPBV		93
32) 3-CHLOROPROPENE	2.412	76	53228	8.6257	PPBV		93
33) FREON 113	2.463	151	192366	11.0698	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	109522	8.6284	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.341	59	225238	7.0292	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.794	73	341132	9.4479	PPBV		99
37) TETRAHYDROFURAN	3.470	72	54436	9.2961	PPBV		95
38) HEXANE	3.241	57	232201	9.5475	PPBV		98
39) VINYL ACETATE	2.830	86	33655	9.6975	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	237635	9.6844	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	63349	9.5459	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	132822	10.0880	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	63810	9.2540	PPBV		100
44) ETHYL ACETATE	3.251	61	46222	9.9155	PPBV		95
45) METHYL ACRYLATE	3.238	55	279714	9.5047	PPBV	#	100
46) CHLOROFORM	3.264	83	263663	10.3820	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	269103	9.8861	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.823	97	276035	10.3131	PPBV		98
49) CARBON TETRACHLORIDE	4.241	117	297702	10.7365	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	188951	9.5709	PPBV		98
51)	BENZENE	4.129	78	381313	9.7878	PPBV		98
53)	CYCLOHEXANE	4.335	84	171831	10.2715	PPBV		97
54)	2,3-DIMETHYLPENTANE	4.589	71	88073	10.5570	PPBV		96
55)	TRICHLOROETHENE	5.016	95	178344	10.0006	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	154813	9.8220	PPBV		98
57)	DIBROMOMETHANE	4.743	174	188737	12.4198	PPBV		83
58)	ETHYL ACRYLATE	4.900	55	346044	9.8087	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	296039	10.2746	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	724407	9.3827	PPBV		100
61)	1,4-DIOXANE	5.026	88	84481	10.0079	PPBV		99
62)	HEPTANE	5.421	43	242704	9.5206	PPBV		99
63)	METHYL METHACRYLATE	5.318	69	141707	9.8923	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.042	58	136844	8.9515	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	241996	10.0129	PPBV		96
66)	TOLUENE	7.132	91	473872	10.4370	PPBV		100
67)	1,3-DICHLOROPROPANE	7.190	76	243885	10.7144	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	209221	9.5814	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	138459	10.7019	PPBV		98
70)	2-HEXANONE	7.695	58	182994	8.5789	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	239373	10.0176	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	212743	12.8459	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.659	129	308693	11.7409	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	262168	11.2010	PPBV	#	100
75)	OCTANE	8.997	43	337681	9.8888	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	210593	11.2663	PPBV		98
78)	CHLOROBENZENE	10.048	112	390632	10.9774	PPBV		99
79)	ETHYLBENZENE	10.923	91	645828	11.0755	PPBV		100
80)	M,P-XYLENE	11.350	91	1003032	21.2340	PPBV		99
81)	O-XYLENE	12.280	91	508409	11.0892	PPBV		99
82)	STYRENE	12.067	104	391110	11.3791	PPBV		100
83)	NONANE	13.402	43	357527	10.0182	PPBV		99
84)	BROMOFORM	11.161	173	339077	15.4206	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	359106	10.9346	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	284105	11.0378	PPBV		100
88)	ISOPROPYLBENZENE	13.784	120	187852	10.7786	PPBV		100
89)	BROMOBENZENE	13.649	77	350259	10.4642	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	174412	10.7299	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	200624	10.8459	PPBV		100
92)	4-ETHYLTOLUENE	15.572	105	742643	10.8486	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	627675	11.0172	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.177	118	303322	10.7352	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	142496	10.2586	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	636713	11.2732	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	447528	9.8079	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	414699	10.6869	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	418016	10.9323	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	390320	10.8435	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	174245	10.5345	PPBV		89
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	612606	10.8197	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	192380	10.4645	PPBV		89
104)	N-BUTYLBENZENE	17.379	134	188579	10.7594	PPBV		93
105)	HEXACHLOROETHANE	17.556	117	249595	11.5593	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.623	225	486999	19.0236	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	498080	16.2228	PPBV		97
108)	NAPHTHALENE	18.360	128	949889	13.7917	PPBV		99
110)	TVHC as equiv Pentane	2.245	TIC	588522	8.9611	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

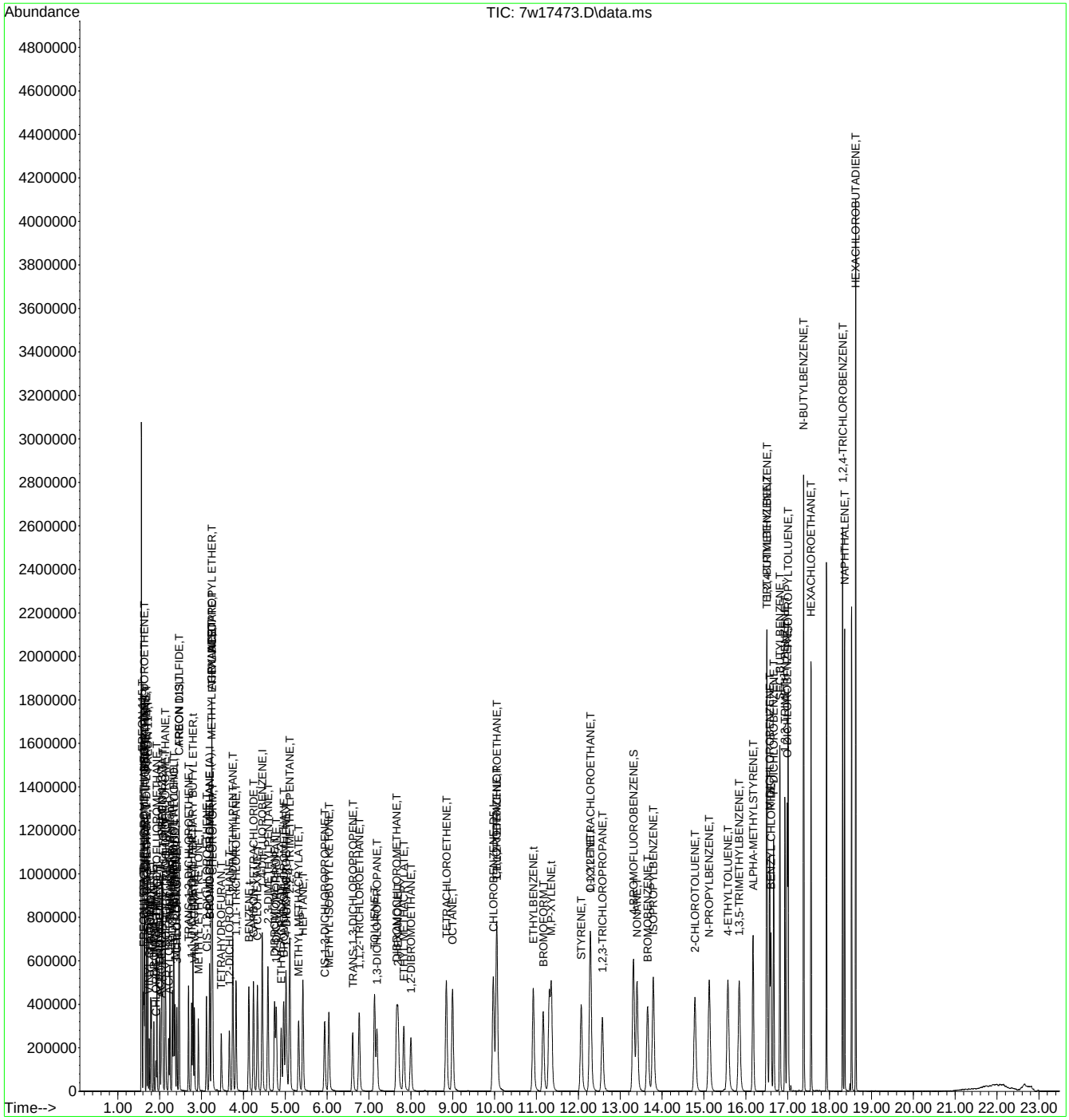
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

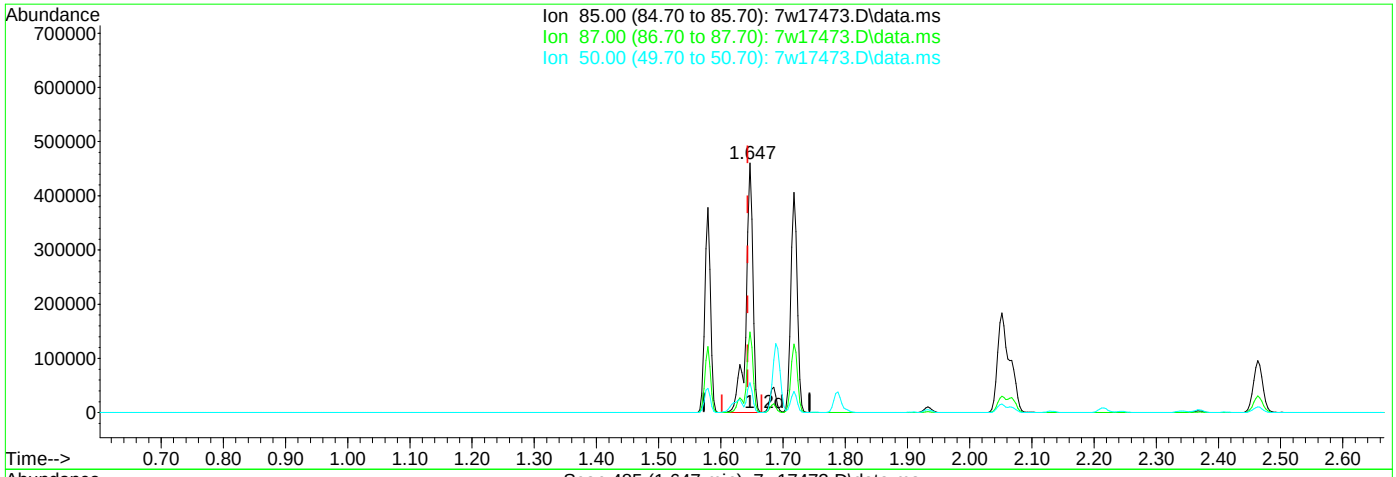
Sample Number: V7W613-CC577 **Method:** TO-15
Lab FileID: 7W17473.D **Analyst approved:** 09/29/25 13:49 Kristel Valladolid
Injection Time: 09/26/25 11:04 **Supervisor approved:** 09/29/25 15:16 Kanya Veerawat

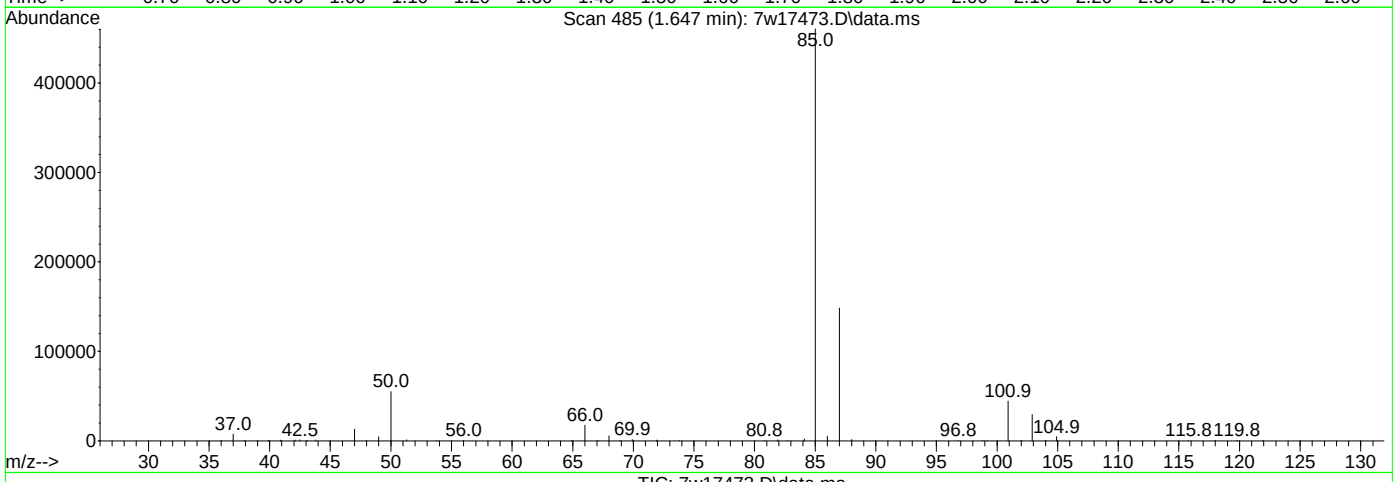
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

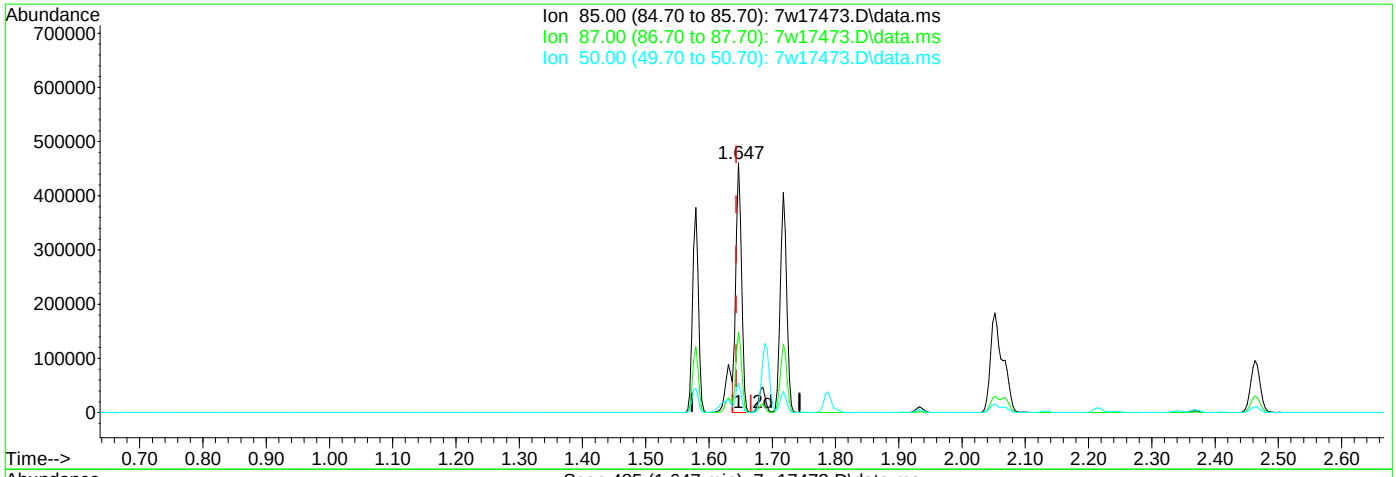
response 355281

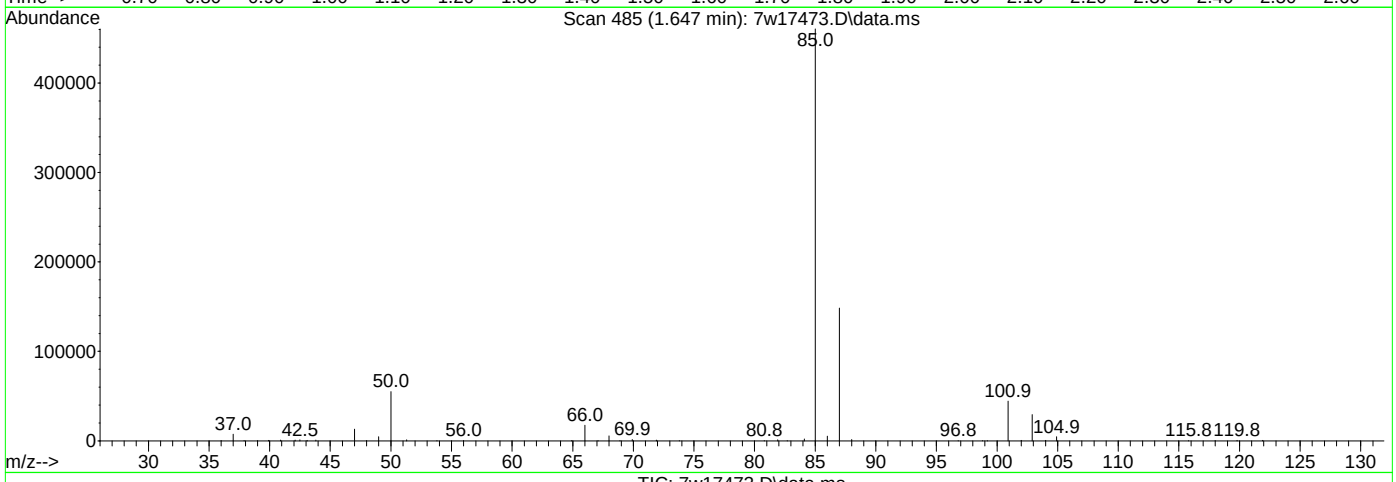
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.57
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.43PPBV m

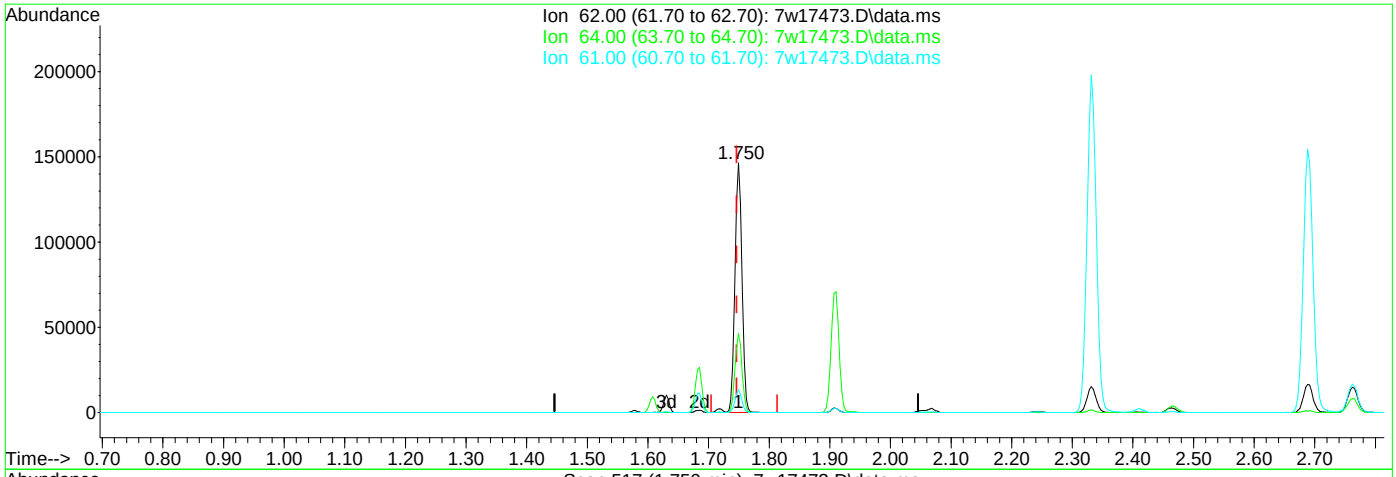
response 290630

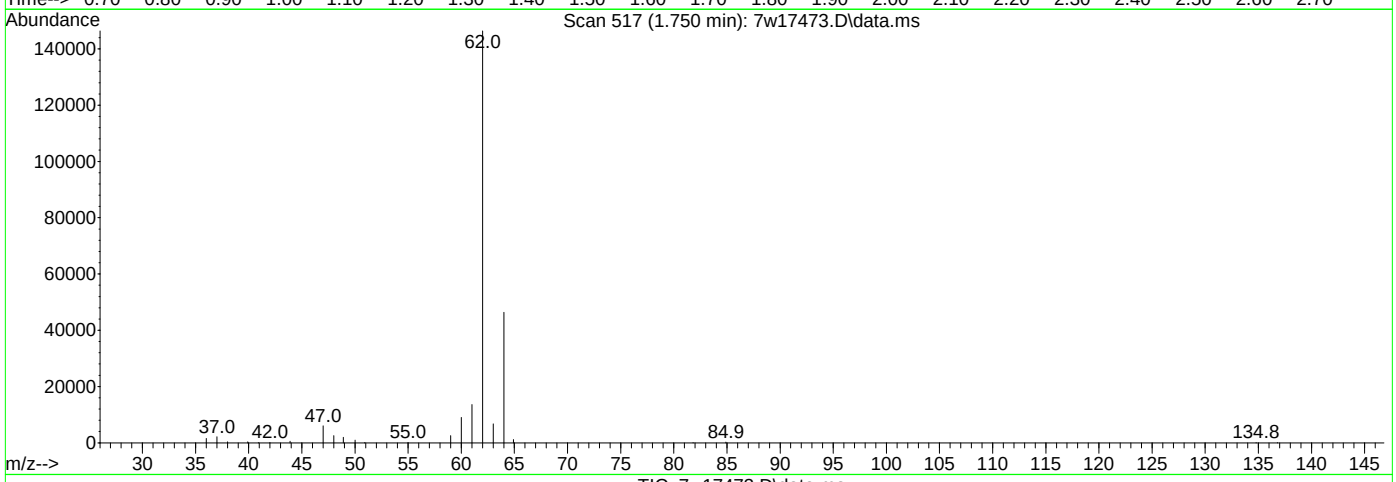
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.81
50.00	19.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.43PPBV

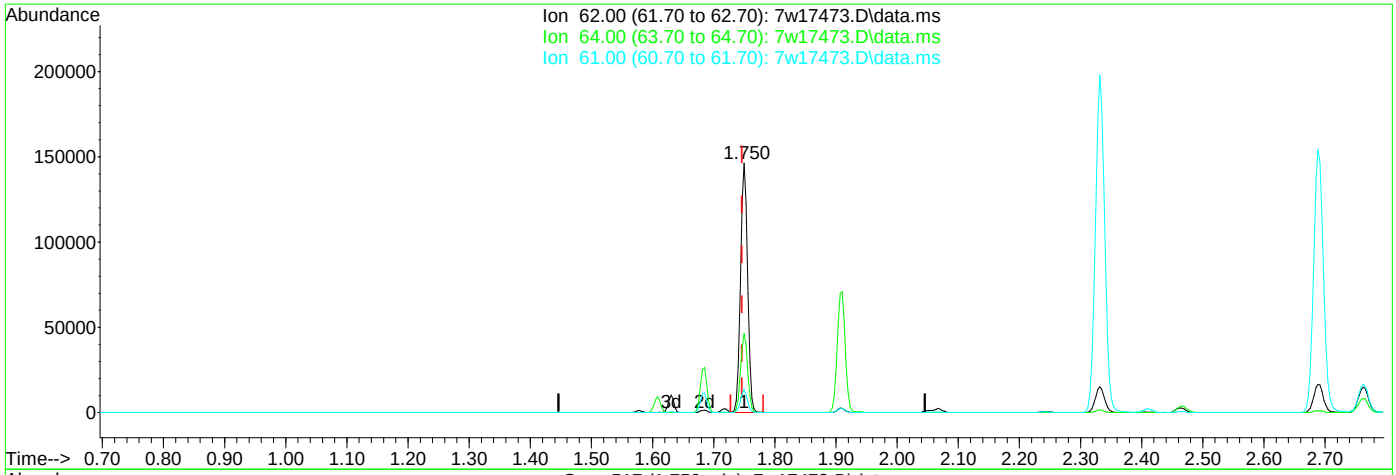
response 119282

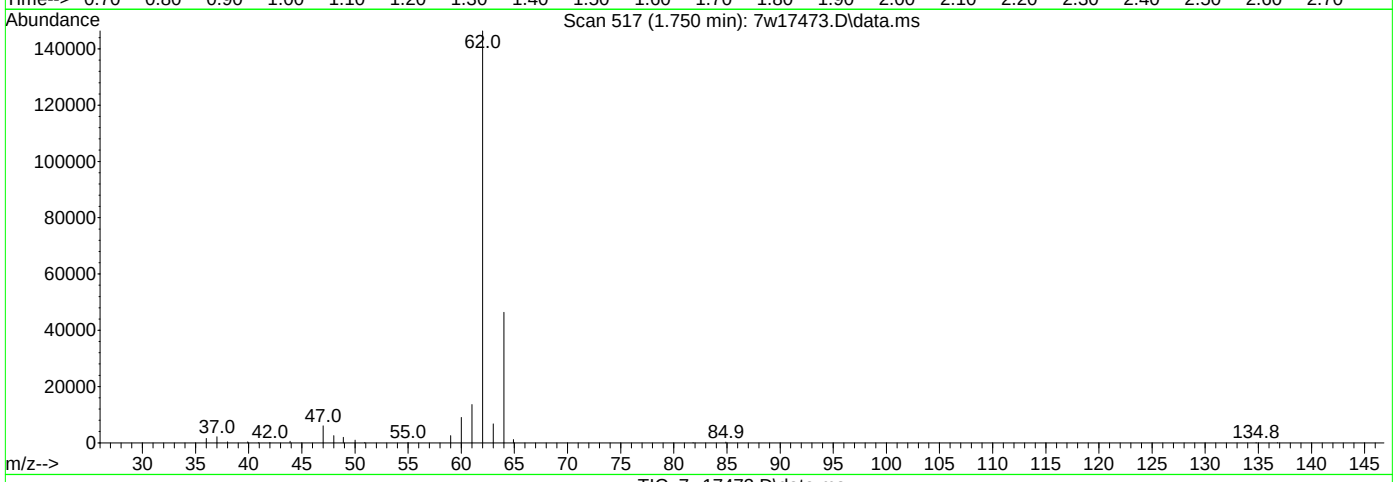
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.24
61.00	8.10	8.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.31PPBV m

response 117529

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.70
61.00	8.10	8.97
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	133953	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659891	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	616286	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133953	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	503374	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	177470	10.9213	PPBV		100
3) FREON 152A	1.605	65	90758	10.8260	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	39420	10.8310	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.627	116	194541	11.1088	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	337777m	10.5290	PPBV		
7) PROPYLENE	1.627	41	108538	10.0032	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	299323	10.4870	PPBV		99
9) FREON 114	1.714	85	325416	9.8410	PPBV		98
10) CHLOROMETHANE	1.688	52	38366	8.3392	PPBV		97
11) VINYL CHLORIDE	1.746	62	139139m	8.5409	PPBV		
12) 1,3-BUTADIENE	1.785	54	109057	8.4753	PPBV		98
13) N-BUTANE	1.801	43	189643	8.7099	PPBV		100
14) BROMOMETHANE	1.859	94	118438	9.3759	PPBV		100
15) CHLOROETHANE	1.907	64	75846	8.5774	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	291881	9.5320	PPBV		99
17) ACETONITRILE	1.997	41	106769	7.0172	PPBV		99
18) ACROLEIN	2.032	56	59014	8.1648	PPBV		97
19) FREON 123	2.049	83	307928	9.9807	PPBV		98
20) FREON 123A	2.065	117	191785	10.4929	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.129	101	361225	10.3675	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	295804	10.0186	PPBV		98
23) ACETONE	2.071	58	72600	8.9935	PPBV		94
24) PENTANE	2.241	42	134532	8.4133	PPBV		94
25) IODOMETHANE	2.303	142	343257	10.7080	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	131850	9.9274	PPBV		96
27) CARBON DISULFIDE	2.463	76	340942	9.0473	PPBV		99
28) ETHANOL	1.936	45	58995	7.5054	PPBV		99
29) BROMOETHENE	2.004	106	122429	9.6535	PPBV		99
30) ACRYLONITRILE	2.213	52	102848	9.0602	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	114935	8.8279	PPBV		92
32) 3-CHLOROPROPENE	2.409	76	61802	8.6996	PPBV		93
33) FREON 113	2.463	151	221690	11.0816	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.688	96	125441	8.5845	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	280149	7.5945	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.791	73	399208	9.6040	PPBV		100
37) TETRAHYDROFURAN	3.470	72	61872	9.1781	PPBV		98
38) HEXANE	3.241	57	266824	9.5301	PPBV		99
39) VINYL ACETATE	2.827	86	38741	9.6968	PPBV		94
40) 1,1-DICHLOROETHANE	2.762	63	263022	9.3110	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	70574	9.2377	PPBV		100
42) CIS-1,2-DICHLOROETHENE	3.116	96	150241	9.9121	PPBV		98
43) DIISOPROPYL ETHER	3.245	59	75359	9.4934	PPBV		96
44) ETHYL ACETATE	3.251	61	54193	10.0984	PPBV		90
45) METHYL ACRYLATE	3.235	55	329510	9.7261	PPBV	#	100
46) CHLOROFORM	3.264	83	301131	10.2998	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313300	9.9979	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	319066	10.3549	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	341442	10.6965	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224067	9.8589	PPBV		99
51)	BENZENE	4.129	78	427351	9.5286	PPBV		99
53)	CYCLOHEXANE	4.335	84	192042	9.9473	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.585	71	99357	10.3199	PPBV		99
55)	TRICHLOROETHENE	5.013	95	200744	9.7542	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181431	9.9743	PPBV		99
57)	DIBROMOMETHANE	4.746	174	218086	12.4356	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	407383	10.0060	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	336180	10.1104	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	841343	9.4428	PPBV		100
61)	1,4-DIOXANE	5.026	88	98685	10.1301	PPBV		99
62)	HEPTANE	5.418	43	279169	9.4893	PPBV		98
63)	METHYL METHACRYLATE	5.319	69	162132	9.8075	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.039	58	162679	9.2211	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	278200	9.9744	PPBV		97
66)	TOLUENE	7.129	91	538193	10.2715	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	272716	10.3818	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	244994	9.7221	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	157387	10.5412	PPBV		98
70)	2-HEXANONE	7.695	58	218019	8.8566	PPBV		97
71)	ETHYL METHACRYLATE	7.833	69	275154	9.9781	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	251471	13.1576	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.662	129	353185	11.6401	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	300394	11.1211	PPBV	#	99
75)	OCTANE	8.997	43	388518	9.8589	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	242787	10.9783	PPBV		97
78)	CHLOROBENZENE	10.045	112	443864	10.5427	PPBV		99
79)	ETHYLBENZENE	10.923	91	739788	10.7232	PPBV		99
80)	M,P-XYLENE	11.347	91	1153457	20.6391	PPBV		98
81)	O-XYLENE	12.273	91	584599	10.7774	PPBV		99
82)	STYRENE	12.067	104	445360	10.9519	PPBV		99
83)	NONANE	13.402	43	410336	9.7183	PPBV		98
84)	BROMOFORM	11.161	173	398925	15.3343	PPBV	#	96
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	414118	10.6580	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	327867	10.7664	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	214666	10.4107	PPBV		99
89)	BROMOBENZENE	13.649	77	401712	10.1439	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	197839	10.2874	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	227675	10.4033	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	857338	10.5856	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	716951	10.6365	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.173	118	346037	10.3514	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	159454	9.7027	PPBV		83
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	732817	10.9666	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	536086	9.9303	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	474032	10.3252	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	478030	10.5669	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	449579	10.5567	PPBV		98
101)	SEC-BUTYLBENZENE	16.813	134	199209	10.1797	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	704353	10.5147	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	218072	10.0260	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	212975	10.2706	PPBV		90
105)	HEXACHLOROETHANE	17.556	117	276086	10.8071	PPBV	#	85
106)	HEXACHLOROBUTADIENE	18.620	225	558862	18.4519	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.308	180	562805	15.4937	PPBV		97
108)	NAPHTHALENE	18.357	128	1051771	12.9074	PPBV		99
110)	TVHC as equiv Pentane	2.241	TIC	662208	8.7586	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
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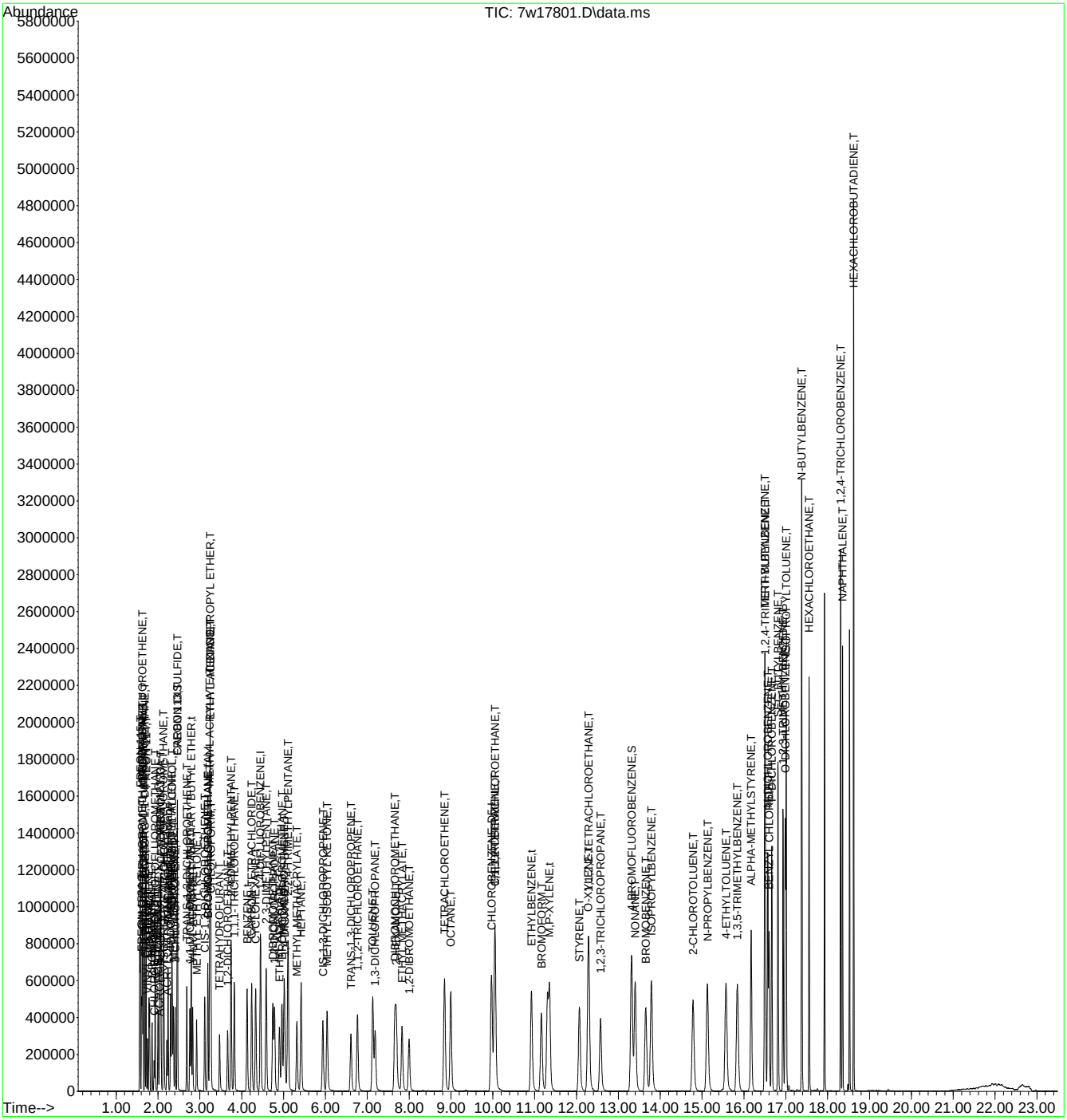
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

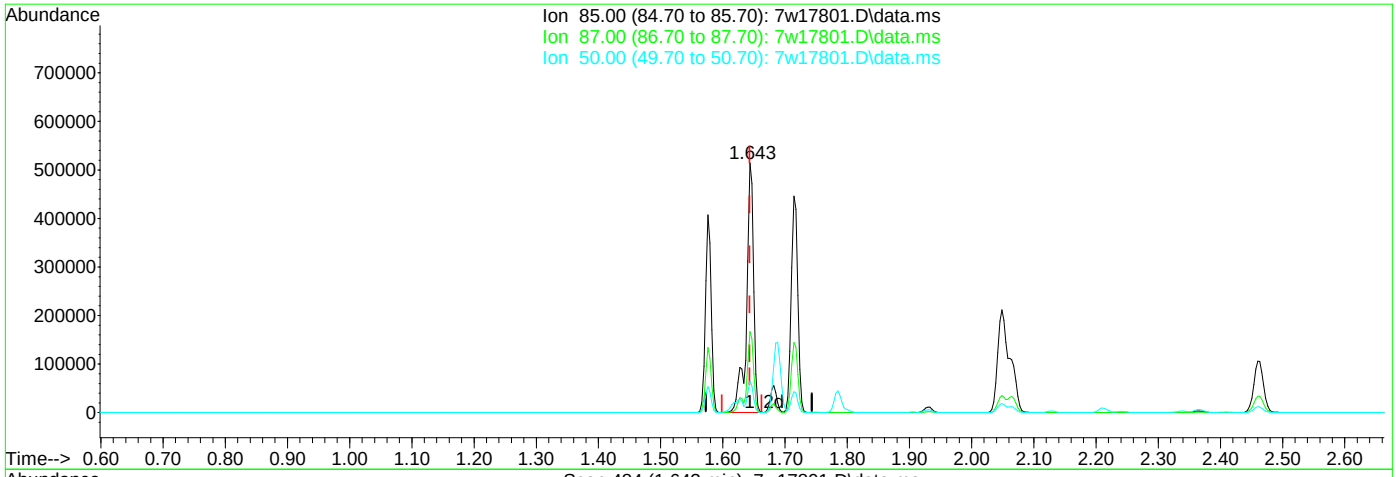
Sample Number: V7W624-CC577
Lab FileID: 7W17801.D
Injection Time: 10/13/25 11:18
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

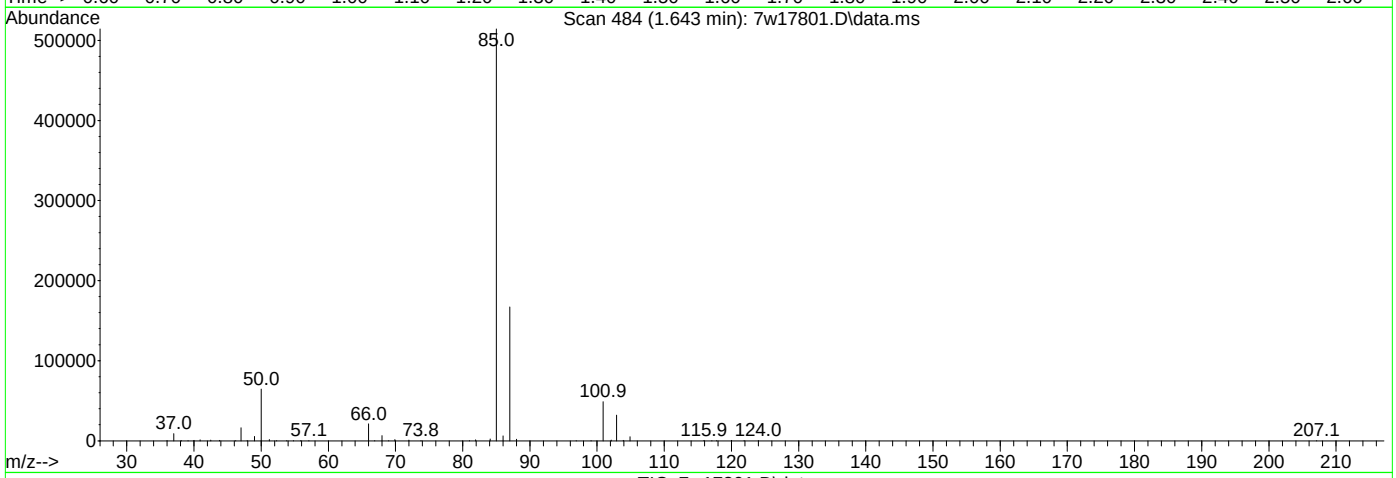
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 12.63PPBV

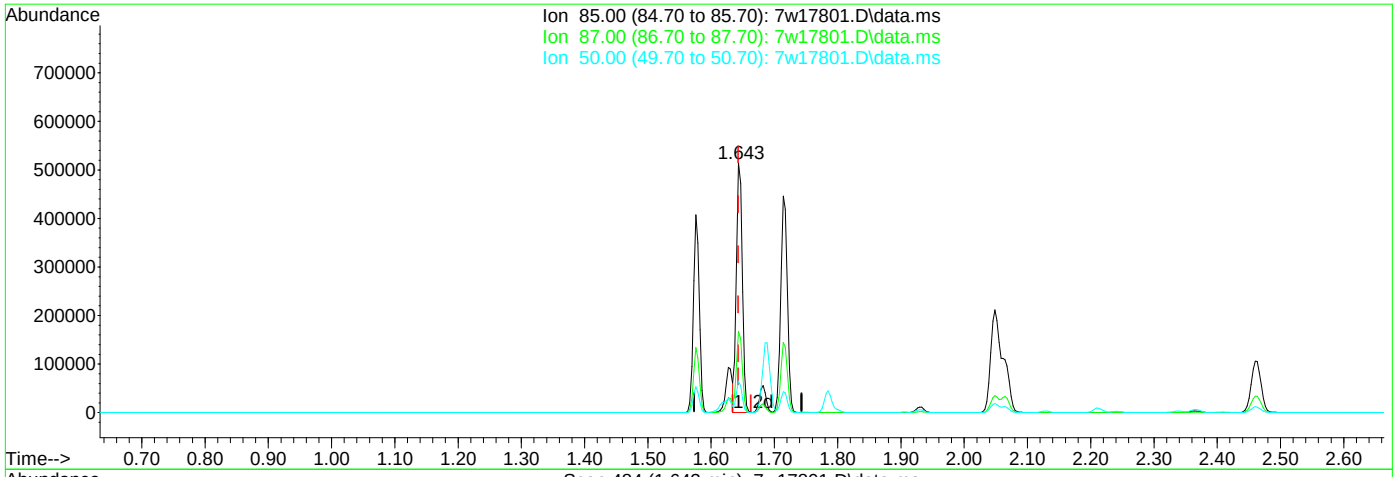
response 405326

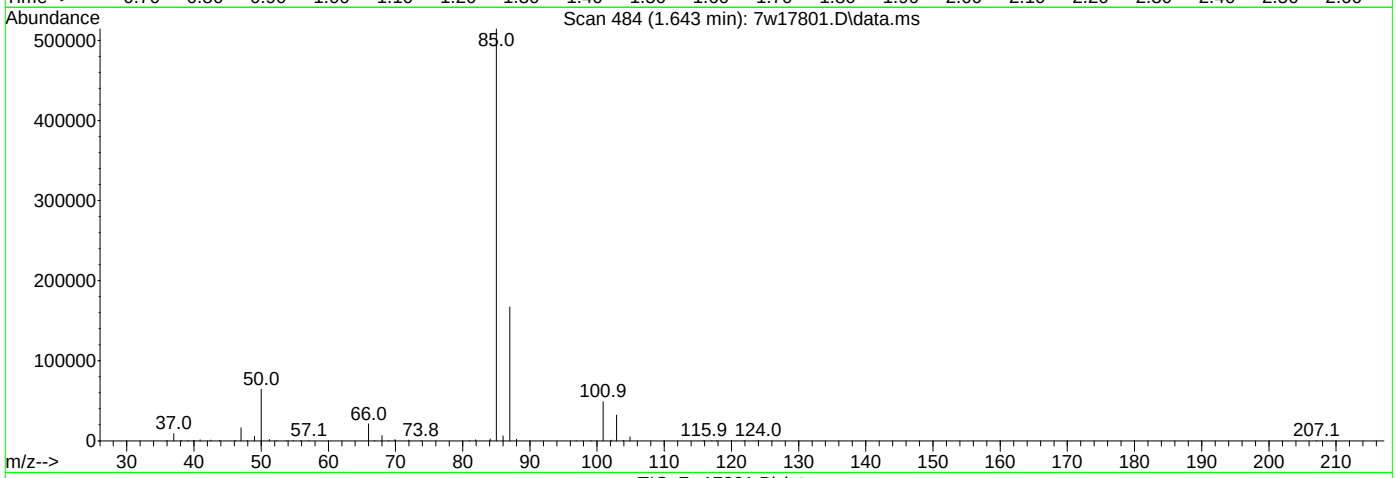
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.32
50.00	19.30	18.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 10.53PPBV m

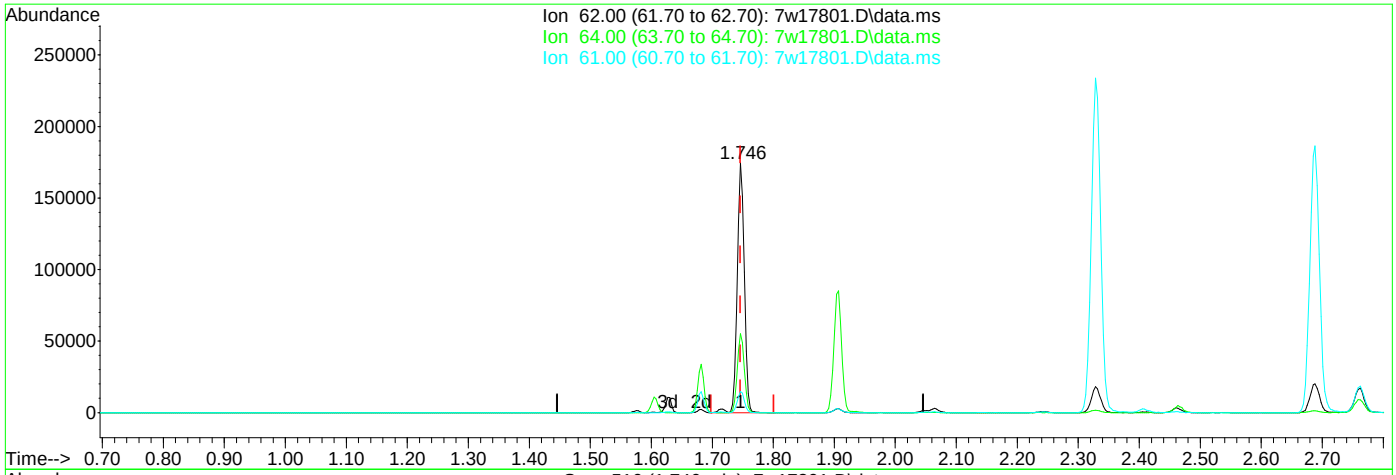
response 337777

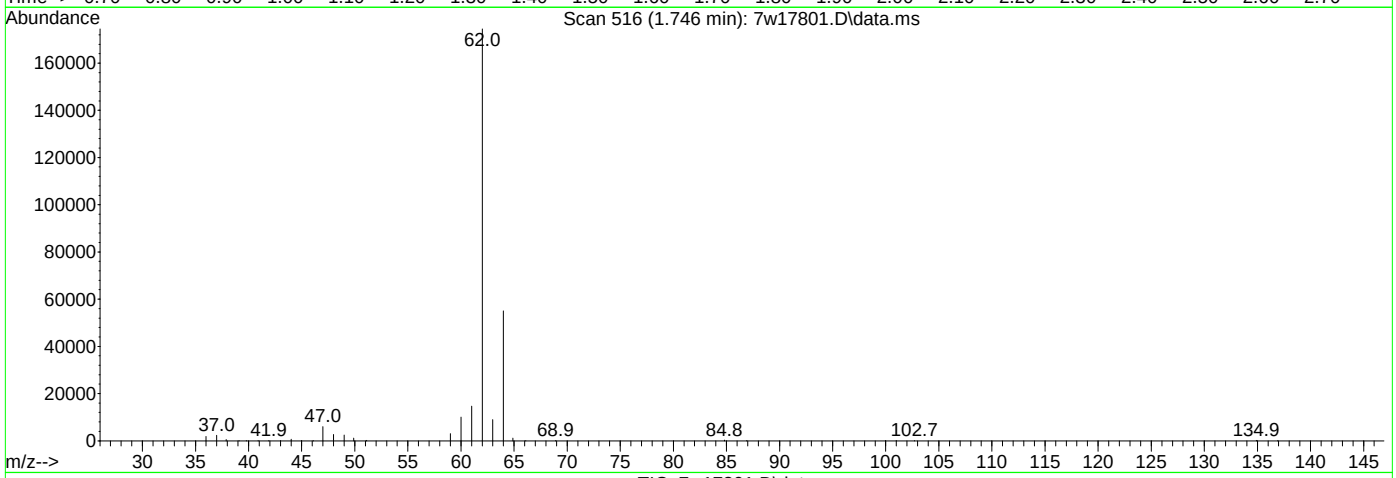
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.66PPBV

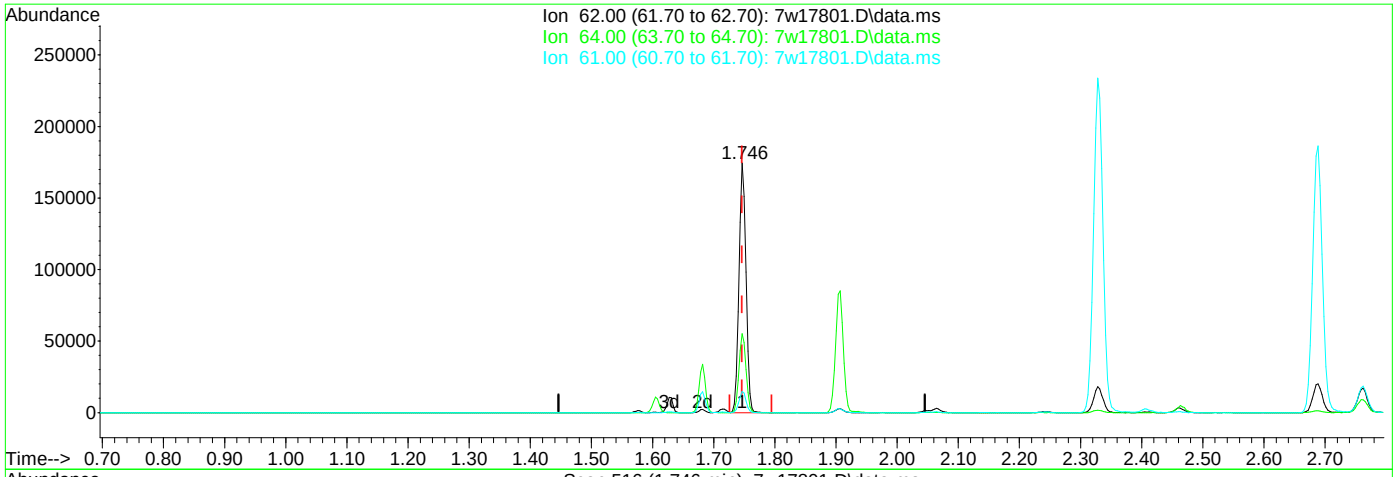
response 141102

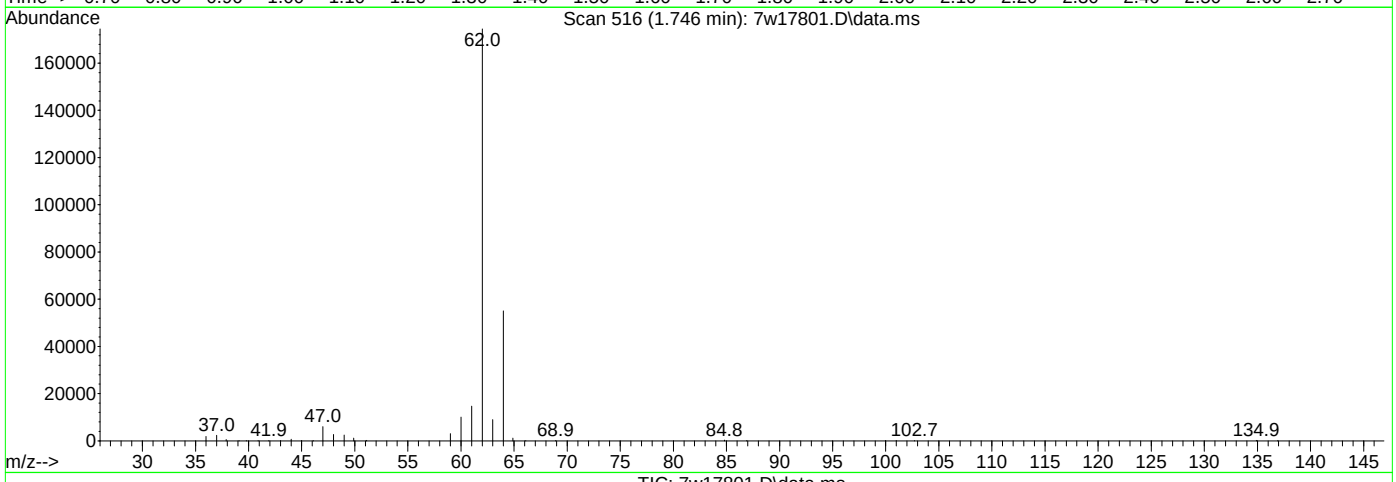
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.50
61.00	8.10	8.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.54PPBV m

response 139139

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.95
61.00	8.10	8.53
0.00	0.00	0.00

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1796	AS10783	12/5/2025	0.40
TO-15 STD	A2035	AS10781	12/4/2025	4.0
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS	A1810	AS10784	12/6/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2292
Date: 11/6/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251106ical.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Benjamin Kim
Data Validator(s):
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	000	5w59763			A2039	0					-	
1-1	000	5w59764			A2039	0					-	
1-1	000	5w59765			A2039	0					-	
1-1	istd only	5w59766			A2039	0					-	
1-1	ib	5w59767			A2039	400					-	
1-2	bfb	5w59768			A1796	5					OK	T = 21:59
1-2	ic2292-0.04	5w59769			A1796	40			√	√	OK	
1-2	ic2292-0.1	5w59770			A1796	100			√	√	OK	
1-2	ic2292-0.2	5w59771			A1796	200			√	√	OK	
1-2	ic2292-0.5	5w59772			A1796	500					NOT USED	Method Development
1-1	ib	5w59773			A2039	200					-	
1-1	ib	5w59774			A2039	400					-	
1-3	ic2292-0.1	5w59775			A2035	10					NOT USED	Method Development
1-3	ic2292-0.2	5w59776			A2035	20					NOT USED	Method Development
1-3	ic2292-0.5	5w59777			A2035	50			√	√	OK	
1-3	ic2292-5	5w59778			A2035	500					NOT USED	Method Development
1-1	ib	5w59779			A2039	200					-	
1-1	ib	5w59780			A2039	400					-	
1-4	ic2292-0.5	5w59781			A1788	5					NOT USED	Method Development
1-4	ic2292-5	5w59782			A1788	50			√	√	OK	
1-4	icc2292-10	5w59783			A1788	100			√	√	OK	
1-4	ic2292-20	5w59784			A1788	200			√	√	OK	
1-4	ic2292-40	5w59785			A1788	400			√	√	OK	
1-4	ic2292-50	5w59786			A1788	500			√	√	OK	
1-4	ic2292-60	5w59787			A1788	500			√	√	OK	
1-1	ib	5w59788			A2039	400					-	
1-1	ib	5w59789			A2039	400					-	
1-5	icv2292-10	5w59790			A1810	100			√	√	OK	
1-1	ib	5w59791			A2039	200					-	
1-1	ib	5w59792			A2039	400					-	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2301
Date: 11/24/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Claire Basilio
Data Validator(s): Geralyn Gomez
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	bfb	5w60000			A1788	100					OK	T = 10:05
SS-4	cc2292-10	5w60001			A1788	100			√	√	OK	
SS-4	bs	5w60002			A1788	100			√	√	OK	
SS-4	bsd	5w60003			A1788	100			√	√	OK	
1-1	ib	5w60004			A2039	400					-	
1-1	mb	5w60005			A2039	400		+	√	√	OK	
1-2	je23789-1	5w60006	MS99437	NYSVLL, NAP	A1625	40	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3	5w60007	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3dup	5w60008	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK	
1-4	je23790-1	5w60009	MS99437	NYSVLL, NAP	A259	400	1		√	√	OK	
1-5	je23790-3	5w60010	MS99437	NYSVLL, NAP	A1703	400	1		√	√	OK	
1-6	je23791-1	5w60011	MS99437	NYSVLL, NAP	A1167	400	1		√	√	OK/DL	↑ TCFM, RR = 4x
1-7	je23791-2	5w60012	MS99437	NYLL, NAP	A1657	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-8	je23791-3	5w60013	MS99437	NYSVLL, NAP	A655	400	1		√	√	OK	
1-9	je23791-4	5w60014	MS99437	NYLL, NAP	A215	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-10	je23793-1	5w60015	MS99437	NYSVLL, NAP	A1627	400	1		√	√	OK/DL	↑ Acetone, RR = 4x
1-11	je23793-2	5w60016	MS99437	NYLL, NAP	A1687	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-12	je23793-3	5w60017	MS99437	NYSVLL, NAP	A1764	400	1		√	√	OK	
1-13	je23793-4	5w60018	MS99437	NYLL, NAP	A1472	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-14	je23793-5	5w60019	MS99437	NYSVLL, NAP	M163	400	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-15	je23793-6	5w60020	MS99437	NYLL, NAP	A2086	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-16	je23794-1	5w60021	MS99437	NYLL, NAP	A1654	500	1		√	√	OK	
1-4	je23794-2	5w60022	MS99437	NYLL, NAP	A247	500	1		√	√	OK	
1-5	je23940-1	5w60023	MS99497	NYLL	A2164	500	1		√	√	OK	
1-8	je23940-2	5w60024	MS99497	NYLL	A2097	500	1		√	√	OK	
1-12	je23836-1	5w60025	MS99497	STD+, NAP	A1333	400	1	+	√	√	RR	No Can Attached.
1-1	je23836-2	5w60026	MS99497	STD+, NAP	M262	400	1	+	√	√	OK	
1-2	je23789-1	5w60027	MS99437	NYSVLL, NAP	A1625	400	1		√	√	OK	
1-3	je23789-3	5w60028	MS99437	NYSVLL, NAP	A1590	400	1		√	√	OK	
1-6	je23791-1	5w60029	MS99437	NYSVLL, NAP	A1167	100	1		√	√	OK	
1-7	je23791-2	5w60030	MS99437	NYLL, NAP	A1657	50	1		√	√	OK/DL	↑ Acetone, RR = 20x
1-9	je23791-4	5w60031	MS99437	NYLL, NAP	A215	50	1				NOT USED	Past BFB Tune
1-10	je23793-1	5w60032	MS99437	NYSVLL, NAP	A1627	100	1				NOT USED	
1-11	je23793-2	5w60033	MS99437	NYLL, NAP	A1687	50	1				NOT USED	
1-13	je23793-4	5w60034	MS99437	NYLL, NAP	A1472	50	1				NOT USED	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: **V5W2301**
Date: **11/24/2025**
Laboratory Analyst: **Benjamin Kim**
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): **Claire Basilio**
Data Validator(s): **Geralyn Gomez**
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2302
Date: 11/25/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251125.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Claire Basilio
Data Validator(s): Rosanlee Alfon
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	ib	5w60031			A2039	20						
1-1	bfb	5w60032			A1788	100					OK	T = 10:05
SS-4	cc2292-10	5w60033			A1788	100			√	√	OK	
SS-4	bs	5w60034			A1788	100			√	√	OK	
SS-4	bsd	5w60035			A1788	100			√	√	OK	
1-1	ib	5w60036			A2039	400					-	
1-1	ib	5w60037			A2039	400					-	
1-1	mb	5w60038			A2039	400		+	√	√	OK	
1-7	je23791-2	5w60039	MS99437	NYLL, NAP	A1657	25	1		√	√	OK	
1-12	je23836-1	5w60040	MS99497	STD+, NAP	A1333	400	1	+	√	√	OK	
1-12	je23836-1dup	5w60041	MS99497	STD+, NAP	A1333	400	1	+	√	√	OK	
1-9	je23791-4	5w60042	MS99437	NYLL, NAP	A215	50	1		√	√	OK	
1-10	je23793-1	5w60043	MS99437	NYSVLL, NAP	A1627	100	1		√	√	OK/DL	↑ Acetone, RR = 50cc
1-11	je23793-2	5w60044	MS99437	NYLL, NAP	A1687	50	1		√	√	OK	
1-13	je23793-4	5w60045	MS99437	NYLL, NAP	A1472	50	1		√	√	OK/DL	↑ Acetone, RR = 25cc
1-14	je23793-5	5w60046	MS99437	NYSVLL, NAP	M163	40	1		√	√	OK	
1-15	je23793-6	5w60047	MS99437	NYLL, NAP	A2086	50	1		√	√	OK	
1-10	je23793-1	5w60048	MS99437	NYSVLL, NAP	A1627	50	1		√	√	OK	
1-13	je23793-4	5w60049	MS99437	NYLL, NAP	A1472	25	1		√	√	OK	
1-15	je23793-6	5w60050	MS99437	NYLL, NAP	A1472	25	1		√	√	OK/DL	↑ Acetone, RR = 10cc
1-1	je24005-17	5w60051	MS99533	STD+, NAP	A1395	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-15	je23793-6	5w60052	MS99437	NYLL, NAP	A1395	10	1		√	√	OK	
1-2	je24005-18	5w60053	MS99533	STD+, NAP	A1392	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-3	je24005-19	5w60054	MS99533	STD+, NAP	A2573	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-4	je24005-20	5w60055	MS99533	STD+, NAP	A1386	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-5	je24005-21	5w60056	MS99533	STD+, NAP	A1531	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-6	je24005-22	5w60057	MS99533	STD+, NAP	A2253	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-1	je24005-17	5w60058	MS99533	STD+, NAP	A1395	5	1	+	√	√	OK	
1-2	je24005-18	5w60059	MS99533	STD+, NAP	A1392	5	1	+	√	√	OK	
1-3	je24005-19	5w60060	MS99533	STD+, NAP	A2573	5	1	+	√	√	OK	
1-4	je24005-20	5w60061	MS99533	STD+, NAP	A1386	5	1	+	√	√	OK	
1-6	je24005-22	5w60062	MS99533	STD+, NAP	A2253	5	1	+	√	√	OK	
1-7	je24005-22	5w60063	MS99533	STD+, NAP	A2253	5	1	+			RR	wrong position injected

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-5	prime-40std	7w16562			A967	20						
2-4	prime-4std	7w16563			A1806	20						
2-3	prime-0.4std	7w16564			A2035	20						
2-2	prime-40lcs	7w16565			A1796	20						
2-1	0	7w16566			A2039	0						
2-1	0	7w16567			A2039	0						
2-1	0	7w16568			A2039	0						
2-1	istd only	7w16569			A2039	0						
2-1	istd only	7w16570			A2039	0						
2-1	istd only	7w16571			A2039	0						
2-1	ib	7w16572			A2039	400						
2-1	bfb	7w16573			A2039	400					OK	T = 2:05 (8/7/25)
2-1	ib	7w16574			A2039	400						
2-1	ib	7w16575			A1796	1						
2-2	ic577-0.04	7w16576			A1796	40			√	√	OK	
2-2	ic577-0.1	7w16577			A1796	100			√	√	OK	
2-2	ic577-0.2	7w16578			A1796	200					NOT USED	Method development
2-2	ic577-0.5	7w16579			A1796	500					NOT USED	Method development
2-1	ib	7w16580			A2039	400					NOT USED	Method development
2-3	ib	7w16581			A2035	1						
2-3	ic577-0.1	7w16582			A2035	10					NOT USED	Method development
2-3	ic577-0.2	7w16583			A2035	20			√	√	OK	
2-3	ic577-0.5	7w16584			A2035	50			√	√	OK	
2-3	ic577-5.0	7w16585			A2035	500					NOT USED	Method development
2-1	ib	7w16586			A2039	400						
2-4	ib	7w16587			A1806	1						
2-4	ic577-0.5	7w16588			A1806	5					NOT USED	Method development
2-4	ic577-5.0	7w16589			A1806	50			√	√	OK	
2-4	icc577-10	7w16590			A1806	100			√	√	OK	
2-4	ic577-20	7w16591			A1806	200			√	√	OK	
2-4	ic577-40	7w16592			A1806	400			√	√	OK	
2-4	ic577-50	7w16593			A1806	500			√	√	OK	
2-4	ic577-60	7w16594			A1806	600			√	√	OK	
2-1	ib	7w16595			A2039	400						
2-1	ib	7w16596			A2039	400						
2-5	icv577-10	7w16597			A967	100			√	√	OK	
2-1	ib	7w16598			A2039	100						
2-1	ib	7w16599			A2039	100						
SS4	ib	7w16600			A1798	100						
2-1	ib	7w16601			A2039	100						

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
	Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]											
Example:	Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.											
Notes:												

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	a1788	AS10741	10/8/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W613
Date: 9/26/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250926.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Kristel Valladolid
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w17472			A1827	20					OK	t=10:25
SS4	cc577-10	7w17473			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bs	7w17474			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bsd	7w17475			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
2-1	ib	7w17476			A1827	100					-	
2-1	mb	7w17477			A1827	400		+	√	√	OK	
2-2	je19194-2	7w17478	ms97046	CHLFRM	A328	620	1.55		√	√	OK	
2-3	je19194-3	7w17479	ms97046	CHLFRM	A188	680	1.7		√	√	OK	
2-4	je19193-1	7w17480	ms97046	CHLFRM	A452	608	1.52		√	√	OK	
2-5	je19193-2	7w17481	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-5	je19193-2dup	7w17482	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-11	scc,cp13198	7w17483			A053	400			√	√	OK	
2-12	scc,cp13198	7w17484			A1765	400			√	√	OK	
2-13	scc,cp13198	7w17485			A1644	400			√	√	OK	
2-14	scc,cp13199	7w17486			A1594	400			√	√	OK	
2-15	scc,cp13199	7w17487			A2121	400			√	√	OK	
2-16	scc,cp13199	7w17488			A737	400			√	√	OK	
A1	scc,cp13200	7w17489			A1412	100			√	√	OK	
A2	scc,cp13200	7w17490			A1428	100			√	√	OK	
A3	scc,cp13200	7w17491			A1439	100			√	√	OK	
A4	scc,cp13200	7w17492			A1881	100			√	√	OK	
A5	scc,cp13196	7w17493			A2380	100			√	√	OK	
A6	scc,cp13196	7w17494			A1574	100			√	√	OK	
A7	scc,cp13196	7w17495			A2211	100			√	√	OK	
A8	scc,cp13196	7w17496			A2321	100			√	√	OK	4:48

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A977	AS10746	10/22/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W624
Date: 10/13/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251013.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Michaella Balido
Data Validator(s): Braian Casallas
Data Validator(s): Natalia Liberato

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-4	bfb	7w17800			Open position	400			v	v	OK	t = 10:41
SS4	cc577-10	7w17801			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bs	7w17802			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bsd	7w17803			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
2-1	ib	7w17804			A1827	100					-	
2-1	mb	7w17805			A1827	400		+	v	v	OK	
C1	je20658-5	7w17806	MS97882	NYSVLL	A1762	10	1.35		v	v	RR	Combine with previous data from batch v7w623
2-2	je20702-1	7w17807	MS97930	STD	A902	400	1		v	v	OK	
2-2	je20702-1dup	7w17808	MS97930	STD	A902	400	1		v	v	OK	
2-3	je20654-1	7w17809	MS97882	NYLL	M311	760	1.52		v	v	OK	
2-4	je20654-2	7w17810	MS97882	NYLL	A1168	790	1.58		v	v	OK	
2-5	je20654-3	7w17811	MS97882	NYLL	A1708	500	1		v	v	OK	
2-6	je20654-5	7w17812	MS97882	NYLL	A743	500	1		v	v	OK	
2-7	je20654-6	7w17813	MS97882	NYLL	A2109	800	1.6		v	v	OK	
2-8	je20654-8	7w17814	MS97882	NYLL	M272	800	1.65		v	v	OK	
2-9	je20654-9	7w17815	MS97882	NYLL	A1081	800	1.6		v	v	OK	
2-10	je20654-13	7w17816	MS97882	NYLL	A1357	800	1.7		v	v	OK	
2-11	je20700-1	7w17817	MS98033	STD	M127	400	1		v	v	OK	
C2	je20654-4	7w17818	MS97882	NYSVLL	M237	632	1.58		v	v	OK	
C3	je20654-10	7w17819	MS97882	NYSVLL	A1323	400	1		v	v	OK	
C4	je20654-11	7w17820	MS97882	NYSVLL	M053	660	1.65		v	v	OK	
C5	je20654-12	7w17821	MS97882	NYSVLL	A1194	640	1.6		v	v	OK	
C6	je20654-7	7w17822	MS97882	NYSVLL	A1055	40	1		v	v	OK	
A1	je20697-1	7w17823	MS98033	SL	A1963	100	1		v	v	OK	
A2	je20697-2	7w17824	MS98033	SL	A1569	100	1		v	v	OK	
A3	je20646-1	7w17825	MS97882	SL	A2442	40	1		v	v	/DL	Acetone ↑; RR = 10cc
A4	je20646-2	7w17826	MS97882	SL	A1925	10	1		v	v	OK	t = 6:55 am
2-13	scc,cp13206	7w17827			A1088	400			v	v	OK	
2-14	scc,cp13206	7w17828			A457	400			v	v	OK	
2-15	scc,cp13206	7w17829			A638	400			v	v	OK	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Groundwater & Environmental Services

Regency Center Carmel ShopRite Plaza, Carmel, NY

1192343-02-210

SGS Job Number: JE23793

Sampling Date: 11/18/25



Report to:

Groundwater & Environmental Services
63 East Street Suite 3
Pawling, NY 12564
MDegloria@GESOnline.com; neregion@gesonline.com

ATTN: Michael DeGloria

Total number of pages in report: **1905**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Jeremy Vienneau 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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SGS North America Inc.

Sample Summary

Groundwater & Environmental Services

Job No: JE23793

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the RL							
JE23793-1	11/18/25	17:59	LM	11/20/25	AIR	Soil Vapor Comp.	SS-5
JE23793-2	11/18/25	17:57	LM	11/20/25	AIR	Indoor Air Comp.	IA-5
JE23793-3	11/18/25	17:55	LM	11/20/25	AIR	Soil Vapor Comp.	SS-6
JE23793-4	11/18/25	17:53	LM	11/20/25	AIR	Indoor Air Comp.	IA-6
JE23793-5	11/18/25	17:59	LM	11/20/25	AIR	Soil Vapor Comp.	DUP SS
JE23793-6	11/18/25	17:22	LM	11/20/25	AIR	Indoor Air Comp.	DUP IA

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Groundwater & Environmental Services	**Job No:**	JE23793
Site:	Regency Center Carmel ShopRite Plaza, Carmel, NY	**Report Date**	12/2/2025 5:51:26 AM

On 11/20/2025, 6 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) An SGS Job Number of JE23793 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V5W2301

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23789-3DUP were used as the QC samples indicated.
- Sample(s) JE23793-3 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.
- The duplicate RPD(s) for Vinyl Acetate, Benzene, Chloroform, Chloromethane, Cyclohexane, Ethylbenzene, Hexane, m,p-Xylene, m-Dichlorobenzene, Methylene chloride, o-Xylene, Tetrahydrofuran, Xylenes (total) are outside control limits for sample JE23789-3DUP. RPD acceptable due to low DUP and sample concentrations.

Matrix: AIR **Batch ID:** V5W2302

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23836-1DUP were used as the QC samples indicated.
- Sample(s) JE23793-1, JE23793-2 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE23793
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE23793-1	**SS-5**					
Acetone (2-Propanone)		284	1.6		ppbv	TO-15
Benzene		0.48	0.20		ppbv	TO-15
Chloroform		0.31	0.20		ppbv	TO-15
Chloromethane		0.41	0.20		ppbv	TO-15
Dichlorodifluoromethane		0.52	0.20		ppbv	TO-15
m-Dichlorobenzene		0.26	0.10		ppbv	TO-15
Ethanol		514 E	4.0		ppbv	TO-15
Ethyl Acetate		14.7	0.20		ppbv	TO-15
Heptane		6.2	0.20		ppbv	TO-15
Hexane		0.36	0.20		ppbv	TO-15
Isopropyl Alcohol		19.5	0.20		ppbv	TO-15
Methylene chloride		0.39	0.20		ppbv	TO-15
Methyl ethyl ketone		1.4	0.20		ppbv	TO-15
Methylmethacrylate		2.4	0.20		ppbv	TO-15
Tertiary Butyl Alcohol		2.4	0.20		ppbv	TO-15
Tetrachloroethylene		1.6	0.040		ppbv	TO-15
Toluene		0.80	0.20		ppbv	TO-15
Trichloroethylene		3.1	0.040		ppbv	TO-15
Trichlorofluoromethane		2.8	0.10		ppbv	TO-15
Vinyl Acetate		0.85	0.20		ppbv	TO-15
m,p-Xylene		0.56	0.20		ppbv	TO-15
o-Xylene		0.25	0.20		ppbv	TO-15
Xylenes (total)		0.81	0.20		ppbv	TO-15
Acetone (2-Propanone)		675	3.8		ug/m3	TO-15
Benzene		1.5	0.64		ug/m3	TO-15
Chloroform		1.5	0.98		ug/m3	TO-15
Chloromethane		0.85	0.41		ug/m3	TO-15
Dichlorodifluoromethane		2.6	0.99		ug/m3	TO-15
m-Dichlorobenzene		1.6	0.60		ug/m3	TO-15
Ethanol		969 E	7.5		ug/m3	TO-15
Ethyl Acetate		52.9	0.72		ug/m3	TO-15
Heptane		25	0.82		ug/m3	TO-15
Hexane		1.3	0.70		ug/m3	TO-15
Isopropyl Alcohol		47.9	0.49		ug/m3	TO-15
Methylene chloride		1.4	0.69		ug/m3	TO-15
Methyl ethyl ketone		4.1	0.59		ug/m3	TO-15
Methylmethacrylate		9.8	0.82		ug/m3	TO-15
Tertiary Butyl Alcohol		7.3	0.61		ug/m3	TO-15
Tetrachloroethylene		11	0.27		ug/m3	TO-15
Toluene		3.0	0.75		ug/m3	TO-15
Trichloroethylene		17	0.21		ug/m3	TO-15
Trichlorofluoromethane		16	0.56		ug/m3	TO-15
Vinyl Acetate		3.0	0.70		ug/m3	TO-15

Summary of Hits

Job Number: JE23793
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene		2.4	0.87		ug/m3	TO-15
o-Xylene		1.1	0.87		ug/m3	TO-15
Xylenes (total)		3.5	0.87		ug/m3	TO-15
JE23793-2	**IA-5**					
Acetone (2-Propanone)		385	1.6		ppbv	TO-15
Benzene		0.46	0.16		ppbv	TO-15
Chloroform		0.33	0.16		ppbv	TO-15
Chloromethane		0.53	0.16		ppbv	TO-15
Carbon tetrachloride		0.085	0.032		ppbv	TO-15
Dichlorodifluoromethane		0.51	0.16		ppbv	TO-15
cis-1,2-Dichloroethylene		0.13	0.032		ppbv	TO-15
Ethanol		561 E	4.0		ppbv	TO-15
Ethyl Acetate		13.3	0.16		ppbv	TO-15
Heptane		1.3	0.16		ppbv	TO-15
Hexane		0.21	0.16		ppbv	TO-15
Isopropyl Alcohol		19.6	0.16		ppbv	TO-15
Methylene chloride		0.43	0.16		ppbv	TO-15
Methyl ethyl ketone		0.38	0.16		ppbv	TO-15
Methylmethacrylate		3.1	0.16		ppbv	TO-15
Tertiary Butyl Alcohol		0.41	0.16		ppbv	TO-15
Tetrachloroethylene		0.051	0.032		ppbv	TO-15
Toluene		0.37	0.16		ppbv	TO-15
Trichloroethylene		0.31	0.032		ppbv	TO-15
Trichlorofluoromethane		0.66	0.080		ppbv	TO-15
m,p-Xylene		0.16	0.16		ppbv	TO-15
Xylenes (total)		0.16	0.16		ppbv	TO-15
Acetone (2-Propanone)		915	3.8		ug/m3	TO-15
Benzene		1.5	0.51		ug/m3	TO-15
Chloroform		1.6	0.78		ug/m3	TO-15
Chloromethane		1.1	0.33		ug/m3	TO-15
Carbon tetrachloride		0.53	0.20		ug/m3	TO-15
Dichlorodifluoromethane		2.5	0.79		ug/m3	TO-15
cis-1,2-Dichloroethylene		0.52	0.13		ug/m3	TO-15
Ethanol		1060 E	7.5		ug/m3	TO-15
Ethyl Acetate		47.9	0.58		ug/m3	TO-15
Heptane		5.3	0.66		ug/m3	TO-15
Hexane		0.74	0.56		ug/m3	TO-15
Isopropyl Alcohol		48.2	0.39		ug/m3	TO-15
Methylene chloride		1.5	0.56		ug/m3	TO-15
Methyl ethyl ketone		1.1	0.47		ug/m3	TO-15
Methylmethacrylate		13	0.66		ug/m3	TO-15
Tertiary Butyl Alcohol		1.2	0.49		ug/m3	TO-15
Tetrachloroethylene		0.35	0.22		ug/m3	TO-15

Summary of Hits

Job Number: JE23793
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		1.4	0.60		ug/m3	TO-15
Trichloroethylene		1.7	0.17		ug/m3	TO-15
Trichlorofluoromethane		3.7	0.45		ug/m3	TO-15
m,p-Xylene		0.69	0.69		ug/m3	TO-15
Xylenes (total)		0.69	0.69		ug/m3	TO-15
JE23793-3	**SS-6**					
Acetone (2-Propanone)		33.0	0.20		ppbv	TO-15
Benzene		0.25	0.20		ppbv	TO-15
Chloroform		0.84	0.20		ppbv	TO-15
Carbon tetrachloride		0.10	0.040		ppbv	TO-15
Dichlorodifluoromethane		0.68	0.20		ppbv	TO-15
m-Dichlorobenzene		0.16	0.10		ppbv	TO-15
Ethanol		99.5 E	0.50		ppbv	TO-15
Ethylbenzene		0.30	0.20		ppbv	TO-15
Ethyl Acetate		6.3	0.20		ppbv	TO-15
Heptane		0.73	0.20		ppbv	TO-15
Hexane		0.23	0.20		ppbv	TO-15
Isopropyl Alcohol		6.9	0.20		ppbv	TO-15
Methylene chloride		0.36	0.20		ppbv	TO-15
Methyl ethyl ketone		0.87	0.20		ppbv	TO-15
Methylmethacrylate		1.5	0.20		ppbv	TO-15
Tertiary Butyl Alcohol		0.95	0.20		ppbv	TO-15
Tetrachloroethylene		31.6	0.040		ppbv	TO-15
Toluene		1.0	0.20		ppbv	TO-15
Trichloroethylene		0.11	0.040		ppbv	TO-15
Trichlorofluoromethane		15.6	0.10		ppbv	TO-15
Vinyl Acetate		0.82	0.20		ppbv	TO-15
m,p-Xylene		1.0	0.20		ppbv	TO-15
o-Xylene		0.43	0.20		ppbv	TO-15
Xylenes (total)		1.4	0.20		ppbv	TO-15
Acetone (2-Propanone)		78.4	0.48		ug/m3	TO-15
Benzene		0.80	0.64		ug/m3	TO-15
Chloroform		4.1	0.98		ug/m3	TO-15
Carbon tetrachloride		0.63	0.25		ug/m3	TO-15
Dichlorodifluoromethane		3.4	0.99		ug/m3	TO-15
m-Dichlorobenzene		0.96	0.60		ug/m3	TO-15
Ethanol		187 E	0.94		ug/m3	TO-15
Ethylbenzene		1.3	0.87		ug/m3	TO-15
Ethyl Acetate		23	0.72		ug/m3	TO-15
Heptane		3.0	0.82		ug/m3	TO-15
Hexane		0.81	0.70		ug/m3	TO-15
Isopropyl Alcohol		17	0.49		ug/m3	TO-15
Methylene chloride		1.3	0.69		ug/m3	TO-15

Summary of Hits

Job Number: JE23793
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Methyl ethyl ketone	2.6	0.59		ug/m3	TO-15
Methylmethacrylate	6.1	0.82		ug/m3	TO-15
Tertiary Butyl Alcohol	2.9	0.61		ug/m3	TO-15
Tetrachloroethylene	214	0.27		ug/m3	TO-15
Toluene	3.8	0.75		ug/m3	TO-15
Trichloroethylene	0.59	0.21		ug/m3	TO-15
Trichlorofluoromethane	87.7	0.56		ug/m3	TO-15
Vinyl Acetate	2.9	0.70		ug/m3	TO-15
m,p-Xylene	4.3	0.87		ug/m3	TO-15
o-Xylene	1.9	0.87		ug/m3	TO-15
Xylenes (total)	6.2	0.87		ug/m3	TO-15
JE23793-4 IA-6					
Acetone (2-Propanone)	928	3.2		ppbv	TO-15
1,3-Butadiene	0.24	0.16		ppbv	TO-15
Benzene	0.64	0.16		ppbv	TO-15
Chloroform	0.58	0.16		ppbv	TO-15
Chloromethane	0.58	0.16		ppbv	TO-15
Carbon tetrachloride	0.16	0.032		ppbv	TO-15
Dichlorodifluoromethane	0.52	0.16		ppbv	TO-15
Ethanol	647	8.0		ppbv	TO-15
Ethyl Acetate	19.9	0.16		ppbv	TO-15
Heptane	2.8	0.16		ppbv	TO-15
Hexane	0.24	0.16		ppbv	TO-15
Isopropyl Alcohol	36.6	0.16		ppbv	TO-15
Methylene chloride	0.45	0.16		ppbv	TO-15
Methyl ethyl ketone	0.52	0.16		ppbv	TO-15
Methylmethacrylate	6.8	0.16		ppbv	TO-15
Tertiary Butyl Alcohol	0.44	0.16		ppbv	TO-15
Tetrachloroethylene	0.17	0.032		ppbv	TO-15
Toluene	0.71	0.16		ppbv	TO-15
Trichlorofluoromethane	0.72	0.080		ppbv	TO-15
m,p-Xylene	0.18	0.16		ppbv	TO-15
Xylenes (total)	0.26	0.16		ppbv	TO-15
Acetone (2-Propanone)	2200	7.6		ug/m3	TO-15
1,3-Butadiene	0.53	0.35		ug/m3	TO-15
Benzene	2.0	0.51		ug/m3	TO-15
Chloroform	2.8	0.78		ug/m3	TO-15
Chloromethane	1.2	0.33		ug/m3	TO-15
Carbon tetrachloride	1.0	0.20		ug/m3	TO-15
Dichlorodifluoromethane	2.6	0.79		ug/m3	TO-15
Ethanol	1220	15		ug/m3	TO-15
Ethyl Acetate	71.6	0.58		ug/m3	TO-15
Heptane	11	0.66		ug/m3	TO-15

Summary of Hits

Job Number: JE23793
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Hexane	0.85	0.56		ug/m3	TO-15
Isopropyl Alcohol	90.0	0.39		ug/m3	TO-15
Methylene chloride	1.6	0.56		ug/m3	TO-15
Methyl ethyl ketone	1.5	0.47		ug/m3	TO-15
Methylmethacrylate	28	0.66		ug/m3	TO-15
Tertiary Butyl Alcohol	1.3	0.49		ug/m3	TO-15
Tetrachloroethylene	1.2	0.22		ug/m3	TO-15
Toluene	2.7	0.60		ug/m3	TO-15
Trichlorofluoromethane	4.0	0.45		ug/m3	TO-15
m,p-Xylene	0.78	0.69		ug/m3	TO-15
Xylenes (total)	1.1	0.69		ug/m3	TO-15
JE23793-5 DUP SS					
Acetone (2-Propanone)	319	2.0		ppbv	TO-15
Benzene	0.47	0.20		ppbv	TO-15
Chloroform	0.29	0.20		ppbv	TO-15
Chloromethane	0.54	0.20		ppbv	TO-15
Dichlorodifluoromethane	0.49	0.20		ppbv	TO-15
m-Dichlorobenzene	0.22	0.10		ppbv	TO-15
Ethanol	493	5.0		ppbv	TO-15
Ethyl Acetate	15.8	0.20		ppbv	TO-15
Hexane	0.55	0.20		ppbv	TO-15
Isopropyl Alcohol	18.1	0.20		ppbv	TO-15
Methylene chloride	0.63	0.20		ppbv	TO-15
Methyl ethyl ketone	1.5	0.20		ppbv	TO-15
Methylmethacrylate	2.3	0.20		ppbv	TO-15
Propylene	0.64	0.50		ppbv	TO-15
Tertiary Butyl Alcohol	2.7	0.20		ppbv	TO-15
Tetrachloroethylene	1.6	0.040		ppbv	TO-15
Toluene	0.80	0.20		ppbv	TO-15
Trichloroethylene	3.0	0.040		ppbv	TO-15
Trichlorofluoromethane	2.7	0.10		ppbv	TO-15
Vinyl Acetate	2.6	0.20		ppbv	TO-15
m,p-Xylene	0.58	0.20		ppbv	TO-15
o-Xylene	0.25	0.20		ppbv	TO-15
Xylenes (total)	0.83	0.20		ppbv	TO-15
Acetone (2-Propanone)	758	4.8		ug/m3	TO-15
Benzene	1.5	0.64		ug/m3	TO-15
Chloroform	1.4	0.98		ug/m3	TO-15
Chloromethane	1.1	0.41		ug/m3	TO-15
Dichlorodifluoromethane	2.4	0.99		ug/m3	TO-15
m-Dichlorobenzene	1.3	0.60		ug/m3	TO-15
Ethanol	929	9.4		ug/m3	TO-15
Ethyl Acetate	56.9	0.72		ug/m3	TO-15

Summary of Hits

Job Number: JE23793
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Hexane	1.9	0.70		ug/m3	TO-15
Isopropyl Alcohol	44.5	0.49		ug/m3	TO-15
Methylene chloride	2.2	0.69		ug/m3	TO-15
Methyl ethyl ketone	4.4	0.59		ug/m3	TO-15
Methylmethacrylate	9.4	0.82		ug/m3	TO-15
Propylene	1.1	0.86		ug/m3	TO-15
Tertiary Butyl Alcohol	8.2	0.61		ug/m3	TO-15
Tetrachloroethylene	11	0.27		ug/m3	TO-15
Toluene	3.0	0.75		ug/m3	TO-15
Trichloroethylene	16	0.21		ug/m3	TO-15
Trichlorofluoromethane	15	0.56		ug/m3	TO-15
Vinyl Acetate	9.1	0.70		ug/m3	TO-15
m,p-Xylene	2.5	0.87		ug/m3	TO-15
o-Xylene	1.1	0.87		ug/m3	TO-15
Xylenes (total)	3.6	0.87		ug/m3	TO-15
JE23793-6 DUP IA					
Acetone (2-Propanone)	1180	8.0		ppbv	TO-15
Benzene	0.60	0.16		ppbv	TO-15
Chloroform	0.39	0.16		ppbv	TO-15
Chloromethane	0.60	0.16		ppbv	TO-15
Carbon tetrachloride	0.10	0.032		ppbv	TO-15
Dichlorodifluoromethane	0.52	0.16		ppbv	TO-15
Ethanol	583	8.0		ppbv	TO-15
Ethyl Acetate	26.3	0.16		ppbv	TO-15
Heptane	2.9	0.16		ppbv	TO-15
Hexane	0.25	0.16		ppbv	TO-15
Isopropyl Alcohol	37.0	0.16		ppbv	TO-15
Methylene chloride	0.33	0.16		ppbv	TO-15
Methyl ethyl ketone	0.55	0.16		ppbv	TO-15
Methylmethacrylate	6.7	0.16		ppbv	TO-15
Tertiary Butyl Alcohol	0.38	0.16		ppbv	TO-15
Tetrachloroethylene	0.087	0.032		ppbv	TO-15
Toluene	0.61	0.16		ppbv	TO-15
Trichlorofluoromethane	0.74	0.080		ppbv	TO-15
Vinyl Acetate	0.21	0.16		ppbv	TO-15
Acetone (2-Propanone)	2800	19		ug/m3	TO-15
Benzene	1.9	0.51		ug/m3	TO-15
Chloroform	1.9	0.78		ug/m3	TO-15
Chloromethane	1.2	0.33		ug/m3	TO-15
Carbon tetrachloride	0.63	0.20		ug/m3	TO-15
Dichlorodifluoromethane	2.6	0.79		ug/m3	TO-15
Ethanol	1100	15		ug/m3	TO-15
Ethyl Acetate	94.7	0.58		ug/m3	TO-15

Summary of Hits

Job Number: JE23793
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Heptane		12	0.66		ug/m3	TO-15
Hexane		0.88	0.56		ug/m3	TO-15
Isopropyl Alcohol		90.9	0.39		ug/m3	TO-15
Methylene chloride		1.1	0.56		ug/m3	TO-15
Methyl ethyl ketone		1.6	0.47		ug/m3	TO-15
Methylmethacrylate		27	0.66		ug/m3	TO-15
Tertiary Butyl Alcohol		1.2	0.49		ug/m3	TO-15
Tetrachloroethylene		0.59	0.22		ug/m3	TO-15
Toluene		2.3	0.60		ug/m3	TO-15
Trichlorofluoromethane		4.2	0.45		ug/m3	TO-15
Vinyl Acetate		0.74	0.56		ug/m3	TO-15

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SS-5		
Lab Sample ID:	JE23793-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1627	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60015.D	1	11/24/25 21:35	BK	n/a	n/a	V5W2301
Run #2	5W60048.D	1	11/25/25 21:36	BK	n/a	n/a	V5W2302
Run #3	5W60043.D	1	11/25/25 18:32	BK	n/a	n/a	V5W2302

	Initial Volume
Run #1	400 ml
Run #2	50.0 ml
Run #3	100 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	284 [a]	1.6	ppbv		675 [a]	3.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.48	0.20	ppbv		1.5	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.31	0.20	ppbv		1.5	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.41	0.20	ppbv		0.85	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.26	0.10	ppbv		1.6	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-5		
Lab Sample ID:	JE23793-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1627	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	46.07	Ethanol	514 [a]	4.0	ppbv	E	969 [a]	7.5	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	14.7	0.20	ppbv		52.9	0.72	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	6.2	0.20	ppbv		25	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.36	0.20	ppbv		1.3	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	19.5	0.20	ppbv		47.9	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.39	0.20	ppbv		1.4	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.4	0.20	ppbv		4.1	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	2.4	0.20	ppbv		9.8	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.4	0.20	ppbv		7.3	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.6	0.040	ppbv		11	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.80	0.20	ppbv		3.0	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	3.1	0.040	ppbv		17	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.8	0.10	ppbv		16	0.56	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	0.85	0.20	ppbv		3.0	0.70	ug/m3
	106.2	m,p-Xylene	0.56	0.20	ppbv		2.4	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.25	0.20	ppbv		1.1	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.81	0.20	ppbv		3.5	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-5		
Lab Sample ID:	JE23793-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1627	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	108%	113%	113%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	IA-5		
Lab Sample ID:	JE23793-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1687	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60016.D	1	11/24/25 22:19	BK	n/a	n/a	V5W2301
Run #2	5W60044.D	1	11/25/25 19:09	BK	n/a	n/a	V5W2302

	Initial Volume
Run #1	500 ml
Run #2	50.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	385 [a]	1.6	ppbv		915 [a]	3.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	0.46	0.16	ppbv		1.5	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	0.33	0.16	ppbv		1.6	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.53	0.16	ppbv		1.1	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.085	0.032	ppbv		0.53	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.16	ppbv		2.5	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.13	0.032	ppbv		0.52	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-5		
Lab Sample ID:	JE23793-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1687	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	561 [a]	4.0	ppbv	E	1060 [a]	7.5	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	13.3	0.16	ppbv		47.9	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	1.3	0.16	ppbv		5.3	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.21	0.16	ppbv		0.74	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	19.6	0.16	ppbv		48.2	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.43	0.16	ppbv		1.5	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.38	0.16	ppbv		1.1	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	3.1	0.16	ppbv		13	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	ND	0.40	ppbv		ND	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.41	0.16	ppbv		1.2	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.051	0.032	ppbv		0.35	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	0.37	0.16	ppbv		1.4	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	0.31	0.032	ppbv		1.7	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.66	0.080	ppbv		3.7	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.16	ppbv		ND	0.56	ug/m3
	106.2	m,p-Xylene	0.16	0.16	ppbv		0.69	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	0.16	0.16	ppbv		0.69	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-5		
Lab Sample ID:	JE23793-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1687	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%	104%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SS-6		
Lab Sample ID:	JE23793-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1764	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60017.D	1	11/24/25 23:02	BK	n/a	n/a	V5W2301
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	33.0	0.20	ppbv		78.4	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.25	0.20	ppbv		0.80	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.84	0.20	ppbv		4.1	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.10	0.040	ppbv		0.63	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.68	0.20	ppbv		3.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.16	0.10	ppbv		0.96	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-6		
Lab Sample ID:	JE23793-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1764	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	99.5	0.50	ppbv	E	187	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.30	0.20	ppbv		1.3	0.87	ug/m3
141-78-6	88	Ethyl Acetate	6.3	0.20	ppbv		23	0.72	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	0.73	0.20	ppbv		3.0	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.23	0.20	ppbv		0.81	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	6.9	0.20	ppbv		17	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.36	0.20	ppbv		1.3	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.87	0.20	ppbv		2.6	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	1.5	0.20	ppbv		6.1	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.95	0.20	ppbv		2.9	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	31.6	0.040	ppbv		214	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.0	0.20	ppbv		3.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.11	0.040	ppbv		0.59	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	15.6	0.10	ppbv		87.7	0.56	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	0.82	0.20	ppbv		2.9	0.70	ug/m3
	106.2	m,p-Xylene	1.0	0.20	ppbv		4.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.43	0.20	ppbv		1.9	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.4	0.20	ppbv		6.2	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-6		
Lab Sample ID:	JE23793-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1764	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%		65-128%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	IA-6		
Lab Sample ID:	JE23793-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1472	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60018.D	1	11/24/25 23:46	BK	n/a	n/a	V5W2301
Run #2	5W60049.D	1	11/25/25 22:13	BK	n/a	n/a	V5W2302
Run #3	5W60045.D	1	11/25/25 19:46	BK	n/a	n/a	V5W2302

	Initial Volume
Run #1	500 ml
Run #2	25.0 ml
Run #3	50.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	928 [a]	3.2	ppbv		2200 [a]	7.6	ug/m3
106-99-0	54.09	1,3-Butadiene	0.24	0.16	ppbv		0.53	0.35	ug/m3
71-43-2	78.11	Benzene	0.64	0.16	ppbv		2.0	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	0.58	0.16	ppbv		2.8	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.58	0.16	ppbv		1.2	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.16	0.032	ppbv		1.0	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.16	ppbv		2.6	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-6		
Lab Sample ID:	JE23793-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1472	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
64-17-5	46.07	Ethanol	647 [a]	8.0	ppbv		1220 [a]	15	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	19.9	0.16	ppbv		71.6	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	2.8	0.16	ppbv		11	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.24	0.16	ppbv		0.85	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	36.6	0.16	ppbv		90.0	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.45	0.16	ppbv		1.6	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.52	0.16	ppbv		1.5	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	6.8	0.16	ppbv		28	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	ND	0.40	ppbv		ND	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.44	0.16	ppbv		1.3	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.17	0.032	ppbv		1.2	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	0.71	0.16	ppbv		2.7	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.72	0.080	ppbv		4.0	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.16	ppbv		ND	0.56	ug/m3
	106.2	m,p-Xylene	0.18	0.16	ppbv		0.78	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	0.26	0.16	ppbv		1.1	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-6		
Lab Sample ID:	JE23793-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1472	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	112%	109%	109%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP SS		
Lab Sample ID:	JE23793-5	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: M163	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60019.D	1	11/25/25 00:29	BK	n/a	n/a	V5W2301
Run #2	5W60046.D	1	11/25/25 20:23	BK	n/a	n/a	V5W2302

	Initial Volume
Run #1	400 ml
Run #2	40.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	319 [a]	2.0	ppbv		758 [a]	4.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.47	0.20	ppbv		1.5	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.29	0.20	ppbv		1.4	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.54	0.20	ppbv		1.1	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	ppbv		2.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.22	0.10	ppbv		1.3	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP SS		
Lab Sample ID:	JE23793-5	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: M163	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	493 [a]	5.0	ppbv		929 [a]	9.4	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	15.8	0.20	ppbv		56.9	0.72	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.55	0.20	ppbv		1.9	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	18.1	0.20	ppbv		44.5	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.63	0.20	ppbv		2.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.5	0.20	ppbv		4.4	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	2.3	0.20	ppbv		9.4	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	0.64	0.50	ppbv		1.1	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.7	0.20	ppbv		8.2	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.6	0.040	ppbv		11	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.80	0.20	ppbv		3.0	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	3.0	0.040	ppbv		16	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.7	0.10	ppbv		15	0.56	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	2.6	0.20	ppbv		9.1	0.70	ug/m3
	106.2	m,p-Xylene	0.58	0.20	ppbv		2.5	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.25	0.20	ppbv		1.1	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.83	0.20	ppbv		3.6	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP SS		
Lab Sample ID:	JE23793-5	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: M163	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%	104%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP IA		
Lab Sample ID:	JE23793-6	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2086	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60020.D	1	11/25/25 01:14	BK	n/a	n/a	V5W2301
Run #2	5W60050.D	1	11/25/25 22:50	BK	n/a	n/a	V5W2302
Run #3	5W60052.D	1	11/26/25 00:03	BK	n/a	n/a	V5W2302
Run #4	5W60047.D	1	11/25/25 20:59	BK	n/a	n/a	V5W2302

	Initial Volume
Run #1	500 ml
Run #2	25.0 ml
Run #3	10.0 ml
Run #4	50.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	1180 [a]	8.0	ppbv		2800 [a]	19	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	0.60	0.16	ppbv		1.9	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	0.39	0.16	ppbv		1.9	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.60	0.16	ppbv		1.2	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.10	0.032	ppbv		0.63	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.16	ppbv		2.6	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP IA		
Lab Sample ID:	JE23793-6	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2086	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
64-17-5	46.07	Ethanol	583 [b]	8.0	ppbv		1100 [b]	15	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	26.3	0.16	ppbv		94.7	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	2.9	0.16	ppbv		12	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.25	0.16	ppbv		0.88	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	37.0	0.16	ppbv		90.9	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.33	0.16	ppbv		1.1	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.55	0.16	ppbv		1.6	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	6.7	0.16	ppbv		27	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	ND	0.40	ppbv		ND	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.38	0.16	ppbv		1.2	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.087	0.032	ppbv		0.59	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	0.61	0.16	ppbv		2.3	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.74	0.080	ppbv		4.2	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	0.21	0.16	ppbv		0.74	0.56	ug/m3
	106.2	m,p-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP IA		
Lab Sample ID:	JE23793-6	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2086	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
1330-20-7	106.2	Xylenes (total)	ND	0.16	ppbv		ND	0.69	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	108%	105%	109%	65-128%

(a) Result is from Run# 3
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle

SGS

Air

CHAIN OF CUSTODY - AIR

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #

Bottle Order Control # FN 11525 210

SGS Quote #

SGS Job # JE23793

Client / Reporting Information			Project Information		Weather Parameters		Requested Analysis
Company Name: Groundwater & Environmental Services			Project Name: Regency Centers Carmel ShopRite Plaza, Carmel, NY		Temperature (Fahrenheit) Start: 40 Maximum: 40		
Address: 63 East Street, Suite 3			Street: 180 Gleneida Ave.		Stop: 39 Minimum: 39		
City: Pawling	State: NY	Zip: 12564	City: Carmel	State: NY	Atmoshpheric Pressure (inches of Hg) Start: 30.1 Maximum: 30.1		
Project Contact: Jessica Montaldo	E-mail: Jmontaldo@gesonline.com		Project #: 1192343-02-210		Stop: 30.1 Minimum: 30.1		
Phone #: 800-360-9405, ext 4328			Client Purchase Order #: Invoice to GES, please reference project #		Other weather comment:		
Sampler(s) Name(s): Liam Maher							

		Air Type		Sampling Equipment Info			Start Sampling Information					Stop Sampling Information					Requested Analysis			
Lab Sample #	Field ID / Point of Collection	Ind (I) Soil Vap (SV) Amb (A)	Res (R) Non-Res (NR)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	VTO15NYSVLL and VMS+NAP	VTO15NYLL and VMS+NAP		
1	SS-5	SV	NR A	1627	6L	FC1365	11/18/25	1040	29	73	LM	11/18/25	1759	5	73	LM	X			
2	IA-5	I	NR A	1687	6L	FC1169	11/18/25	0945	30	73	LM	11/18/25	1757	5	73	LM		X		
3	SS-6	SV	NR A	1764	6L	F61162	11/18/25	0950	30	73	LM	11/18/25	1755	4	73	LM	X			
4	IA-6	I	NR A	1472	6L	FC1216	11/18/25	0953	29	73	LM	11/18/25	1753	5	73	LM		X		
5	DUP SS	SV	NR M	1163	6L	FC1365	11/18/25	1040	29	73	LM	11/18/25	1759	5	73	LM	X			
6	DUP IA	I	NR A	2086	6L	FC1472	11/18/25	0953	27	73	LM	11/18/25	1722	3	73	LM		X		

Turnaround Time (Business days)

- 15 Business Days
- 10 Business Days
- 5 Business Days
- 3 Business Days *
- 2 Business Days *
- 1 Business Day *
- Other

Approved By: _____

Date: _____

* Approval needed for 1-3 Business Day TAT

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

- Comm A
- Comm B
- Reduced T2
- Full T1
- Other: NYCATB
- DKQP reporting

Comments / Remarks

Tenant Space: Electric Paradise Tanning

VTO15NYSVLL - soil vapor; VTO15NYLL - indoor/ambient
*NYCATB Report

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory:	Date / Time:		Received By:	Relinquished By:	Date / Time:	Received By:
1 Liam Maher	11-19-25	1	Fed-Ex	2 FX	11/20/25 1000	2
Relinquished by:	Date / Time:		Received By:	Relinquished By:	Date / Time:	Received By:
3		3		4		4
Relinquished by:	Date / Time:		Received By:	Custody Seal #		
5		5				

Initial Assessment ZA XL

http://www.sgs.com/en/terms-and-conditions

5.1 5

JE23793: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE23793 **Client:** GROUNDWATER & ENVIRONMENTAL S **Project:** REGENCY CENTERS, GLENEIDA AVE, C

Date / Time Received: 11/20/2025 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Received: 11/20/25

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1627	6	30	11/11/25	JT	CP13198	7W17485.D	JE23793-1	11/21/25	TCH	6.5			1
A1687	6	30	11/11/25	JT	CP13206	7W17829.D	JE23793-2	11/21/25	TCH	4.5			1
A1764	6	30	11/11/25	JT	CP13206	7W17829.D	JE23793-3	11/21/25	TCH	4			1
A1472	6	30	11/11/25	JT	CP13206	7W17829.D	JE23793-4	11/21/25	TCH	5.5			1
M163	6	30	11/11/25	JT	CP13198	7W17485.D	JE23793-5	11/21/25	TCH	6			1
A2086	6	30	11/11/25	JT	CP13198	7W17485.D	JE23793-6	11/21/25	TCH	6			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1162	11/11/25	JT	10.3	8	11/25/25	JT	11.1	7.5	Flow Controller
FC1169	11/11/25	JT	10.3	8	11/25/25	JT	10.8	4.7	Flow Controller
FC1216	11/11/25	JT	10.5	8	11/25/25	JT	11	4.7	Flow Controller
FC1365	11/11/25	JT	10.4	8	11/26/25	JT	34	106.3*	Flow Controller
FC1472	11/11/25	JT	10.3	8	11/26/25	JT	10.7	3.8	Flow Controller

* Flow controller RPD > 20%

SGS Bottle Order(s):
EN-11525-210

Prep Date	Room Temp(F)	Bar Pres "Hg
11/11/25	70	29.92

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: JE23793

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE23793-1 SS-5	Collected: 18-NOV-25 17:59 By: LM		Received: 20-NOV-25 By: JR			
JE23793-1	TO-15	24-NOV-25 21:35	BK			VTO15NYSVLL
JE23793-1	TO-15	25-NOV-25 18:32	BK			VTO15NYSVLL
JE23793-1	TO-15	25-NOV-25 21:36	BK			VTO15NYSVLL
JE23793-2 IA-5	Collected: 18-NOV-25 17:57 By: LM		Received: 20-NOV-25 By: JR			
JE23793-2	TO-15	24-NOV-25 22:19	BK			VTO15NYLL
JE23793-2	TO-15	25-NOV-25 19:09	BK			VTO15NYLL
JE23793-3 SS-6	Collected: 18-NOV-25 17:55 By: LM		Received: 20-NOV-25 By: JR			
JE23793-3	TO-15	24-NOV-25 23:02	BK			VTO15NYSVLL
JE23793-4 IA-6	Collected: 18-NOV-25 17:53 By: LM		Received: 20-NOV-25 By: JR			
JE23793-4	TO-15	24-NOV-25 23:46	BK			VTO15NYLL
JE23793-4	TO-15	25-NOV-25 19:46	BK			VTO15NYLL
JE23793-4	TO-15	25-NOV-25 22:13	BK			VTO15NYLL
JE23793-5 DUP SS	Collected: 18-NOV-25 17:59 By: LM		Received: 20-NOV-25 By: JR			
JE23793-5	TO-15	25-NOV-25 00:29	BK			VTO15NYSVLL
JE23793-5	TO-15	25-NOV-25 20:23	BK			VTO15NYSVLL
JE23793-6 DUP IA	Collected: 18-NOV-25 17:22 By: LM		Received: 20-NOV-25 By: JR			
JE23793-6	TO-15	25-NOV-25 01:14	BK			VTO15NYLL
JE23793-6	TO-15	25-NOV-25 20:59	BK			VTO15NYLL
JE23793-6	TO-15	25-NOV-25 22:50	BK			VTO15NYLL
JE23793-6	TO-15	26-NOV-25 00:03	BK			VTO15NYLL

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2302-MB	5W60038.D	1	11/25/25	BK	n/a	n/a	V5W2302

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	107%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.2	98	9.9	95	3	70-130/30
106-99-0	1,3-Butadiene	10.3	10.8	105	10.5	102	3	70-130/30
71-43-2	Benzene	10.4	11.0	106	10.8	104	2	70-130/30
75-27-4	Bromodichloromethane	9.9	11.1	112	11.1	112	0	70-130/30
75-25-2	Bromoform	10.6	13.5	127	13.2	125	2	70-130/30
74-83-9	Bromomethane	10.2	11.6	114	11.5	113	1	70-130/30
593-60-2	Bromoethene	10.1	11.9	118	11.7	116	2	70-130/30
100-44-7	Benzyl Chloride	10.5	13.2	126	13.2	126	0	70-130/30
75-15-0	Carbon disulfide	10.6	10.8	102	10.6	100	2	70-130/30
108-90-7	Chlorobenzene	10.9	12.0	110	11.9	109	1	70-130/30
75-00-3	Chloroethane	10	9.8	98	9.8	98	0	70-130/30
67-66-3	Chloroform	10.5	11.4	109	11.2	107	2	70-130/30
74-87-3	Chloromethane	10.6	9.7	92	9.6	91	1	70-130/30
107-05-1	3-Chloropropene	10.2	9.8	96	9.7	95	1	70-130/30
95-49-8	2-Chlorotoluene	10.4	11.4	110	11.3	109	1	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.4	112	11.4	112	0	70-130/30
110-82-7	Cyclohexane	10.4	10.9	105	10.7	103	2	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.7	95	9.6	94	1	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.6	99	10.2	95	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	12.8	116	12.3	112	4	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.9	107	10.7	105	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.1	88	9.1	88	0	70-130/30
123-91-1	1,4-Dioxane	9.9	10.9	110	11.0	111	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.8	111	11.2	106	5	70-130/30
124-48-1	Dibromochloromethane	10.4	12.3	118	11.8	113	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	10.2	100	10.1	99	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10	96	9.9	95	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	10.2	101	1	70-130/30
541-73-1	m-Dichlorobenzene	10.5	13.0	124	12.8	122	2	70-130/30
95-50-1	o-Dichlorobenzene	10.7	12.4	116	12.0	112	3	70-130/30
106-46-7	p-Dichlorobenzene	10.8	12.1	112	11.9	110	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.6	100	1	70-130/30
64-17-5	Ethanol	9.7	11.4	118	10.7	110	6	70-130/30
100-41-4	Ethylbenzene	11	12.1	110	11.8	107	3	70-130/30
141-78-6	Ethyl Acetate	10.5	12.5	119	12.1	115	3	70-130/30
622-96-8	4-Ethyltoluene	10.6	13.0	123	12.8	121	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	12.3	118	12.0	115	2	70-130/30
142-82-5	Heptane	10.4	9.4	90	9.4	90	0	70-130/30
87-68-3	Hexachlorobutadiene	11.7	13.7	117	13.6	116	1	70-130/30
110-54-3	Hexane	10.5	9.9	94	9.7	92	2	70-130/30
591-78-6	2-Hexanone	10.4	12.0	115	11.6	112	3	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.5	90	9.2	88	3	70-130/30
75-09-2	Methylene chloride	10.2	9.8	96	9.5	93	3	70-130/30
78-93-3	Methyl ethyl ketone	10.4	12.5	120	12.2	117	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	11.3	111	11.4	112	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10.3	98	10.2	97	1	70-130/30
80-62-6	Methylmethacrylate	10.3	11.3	110	11.2	109	1	70-130/30
91-20-3	Naphthalene	11.8	13.6	115	13.4	114	1	70-130/30
115-07-1	Propylene	10.6	9.5	90	9.0	85	5	70-130/30
100-42-5	Styrene	10.9	12.5	115	12.2	112	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	11.3	109	11.0	106	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	12.4	113	12.1	110	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	11.2	107	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	13.5	115	13.1	112	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	13.3	122	13.0	119	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.6	108	11.4	107	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	10.4	102	10.6	104	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	10.2	106	9.7	101	5	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.5	117	3	70-130/30
109-99-9	Tetrahydrofuran	9.7	11.4	118	11.0	113	4	70-130/30
108-88-3	Toluene	10.6	10.6	100	10.8	102	2	70-130/30
79-01-6	Trichloroethylene	9.9	11.1	112	11.1	112	0	70-130/30
75-69-4	Trichlorofluoromethane	10.1	11.7	116	12.8	127	9	70-130/30
75-01-4	Vinyl chloride	10.2	10.8	106	10.7	105	1	70-130/30
108-05-4	Vinyl Acetate	10.2	11.4	112	11.3	111	1	70-130/30
	m,p-Xylene	21.2	23.5	111	23.4	110	0	70-130/30
95-47-6	o-Xylene	11	12.4	113	12.0	109	3	70-130/30
1330-20-7	Xylenes (total)	32.2	35.9	111	35.4	110	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2302-BS	5W60034.D	1	11/25/25	BK	n/a	n/a	V5W2302
V5W2302-BSD	5W60035.D	1	11/25/25	BK	n/a	n/a	V5W2302

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.1	97	10.4	100	3	70-130/30
64-17-5	Ethanol	9.7	10.5	108	10.6	109	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	8.8	85	8.5	82	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.4	82	8.1	79	4	70-130/30
71-43-2	Benzene	10.4	9.8	94	9.6	92	2	70-130/30
75-27-4	Bromodichloromethane	9.9	10.3	104	10.1	102	2	70-130/30
75-25-2	Bromoform	10.6	15.4	145* [a]	15.1	142* [a]	2	70-130/30
74-83-9	Bromomethane	10.2	9.6	94	9.3	91	3	70-130/30
593-60-2	Bromoethene	10.1	10	99	9.7	96	3	70-130/30
100-44-7	Benzyl Chloride	10.5	9.9	94	9.7	92	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.1	86	9.0	85	1	70-130/30
108-90-7	Chlorobenzene	10.9	10.8	99	10.7	98	1	70-130/30
75-00-3	Chloroethane	10	8.5	85	8.3	83	2	70-130/30
67-66-3	Chloroform	10.5	10.3	98	10.1	96	2	70-130/30
74-87-3	Chloromethane	10.6	8.4	79	8.1	76	4	70-130/30
107-05-1	3-Chloropropene	10.2	8.8	86	8.6	84	2	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.6	102	10.6	102	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	10.7	105	10.5	103	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.1	97	3	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.5	93	9.1	89	4	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.0	93	9.8	92	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.3	103	11.0	100	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	9.4	92	9.2	90	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.9	96	9.6	93	3	70-130/30
123-91-1	1,4-Dioxane	9.9	10.3	104	10.0	101	3	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.7	101	10.2	96	5	70-130/30
124-48-1	Dibromochloromethane	10.4	11.7	113	11.5	111	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	8.8	86	8.6	84	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.1	97	9.8	94	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	9.9	98	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.6	101	10.5	100	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	10.6	99	10.6	99	0	70-130/30
106-46-7	p-Dichlorobenzene	10.8	10.8	100	10.9	101	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.5	99	2	70-130/30
64-17-5	Ethanol	9.7	8.7	90	8.4	87	4	70-130/30
100-41-4	Ethylbenzene	11	10.9	99	10.8	98	1	70-130/30
141-78-6	Ethyl Acetate	10.5	9.6	91	9.6	91	0	70-130/30
622-96-8	4-Ethyltoluene	10.6	10.8	102	10.7	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.2	106	11.0	104	2	70-130/30
76-14-2	Freon 114	10.4	10.1	97	9.8	94	3	70-130/30
142-82-5	Heptane	10.4	9.6	92	9.3	89	3	70-130/30
87-68-3	Hexachlorobutadiene	11.7	18.9	162* [a]	18.9	162* [a]	0	70-130/30
110-54-3	Hexane	10.5	9.5	90	9.2	88	3	70-130/30
591-78-6	2-Hexanone	10.4	8.5	82	8.4	81	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.0	86	8.8	84	2	70-130/30
75-09-2	Methylene chloride	10.2	9.0	88	8.8	86	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.6	92	9.3	89	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	8.9	87	8.8	86	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	9.6	91	9.3	89	3	70-130/30
80-62-6	Methylmethacrylate	10.3	10	97	9.7	94	3	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10	94	9.5	90	5	70-130/30
100-42-5	Styrene	10.9	11.1	102	11.1	102	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.3	99	10.1	97	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	10.8	98	10.7	97	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	10.8	103	10.5	100	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.3	139* [a]	16.3	139* [a]	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.1	102	11.1	102	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	10.8	101	10.8	101	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.4	92	9.2	90	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.2	75	7.1	74	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.7	119	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.2	95	4	70-130/30
108-88-3	Toluene	10.6	10.5	99	10.3	97	2	70-130/30
79-01-6	Trichloroethylene	9.9	10	101	9.7	98	3	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.3	102	10.0	99	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.4	82	8.2	80	2	70-130/30
108-05-4	Vinyl Acetate	10.2	9.8	96	9.6	94	2	70-130/30
	m,p-Xylene	21.2	21.0	99	20.7	98	1	70-130/30
95-47-6	o-Xylene	11	11.0	100	10.9	99	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.0	99	31.6	98	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	99%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	9.2	88	8.9	86	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.7	84	8.5	83	2	70-130/30
71-43-2	Benzene	10.4	9.9	95	9.8	94	1	70-130/30
75-27-4	Bromodichloromethane	9.9	10.6	107	10.3	104	3	70-130/30
75-25-2	Bromoform	10.6	16.0	151* [a]	15.9	150* [a]	1	70-130/30
74-83-9	Bromomethane	10.2	9.8	96	9.6	94	2	70-130/30
593-60-2	Bromoethene	10.1	10.2	101	10.0	99	2	70-130/30
100-44-7	Benzyl Chloride	10.5	10.5	100	10.3	98	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.4	89	9.3	88	1	70-130/30
108-90-7	Chlorobenzene	10.9	11.0	101	10.9	100	1	70-130/30
75-00-3	Chloroethane	10	9.0	90	8.8	88	2	70-130/30
67-66-3	Chloroform	10.5	10.6	101	10.4	99	2	70-130/30
74-87-3	Chloromethane	10.6	8.7	82	8.5	80	2	70-130/30
107-05-1	3-Chloropropene	10.2	9.1	89	8.8	86	3	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.8	104	10.8	104	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.1	109	10.9	107	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.3	99	1	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.8	96	10	98	2	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.4	97	10.1	94	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.6	105	11.3	103	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.1	99	9.8	96	3	70-130/30
78-87-5	1,2-Dichloropropane	10.3	10.3	100	10.1	98	2	70-130/30
123-91-1	1,4-Dioxane	9.9	10.8	109	10.4	105	4	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.6	100	10.4	98	2	70-130/30
124-48-1	Dibromochloromethane	10.4	12.2	117	11.9	114	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	9.0	88	8.7	85	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.3	99	10.1	97	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.4	103	10.2	101	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.8	103	10.8	103	0	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.1	104	10.9	102	2	70-130/30
106-46-7	p-Dichlorobenzene	10.8	11.1	103	10.9	101	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	10.1	105	9.9	103	2	70-130/30
64-17-5	Ethanol	9.7	7.7	79	7.5	77	3	70-130/30
100-41-4	Ethylbenzene	11	11.2	102	11.1	101	1	70-130/30
141-78-6	Ethyl Acetate	10.5	10.2	97	10.1	96	1	70-130/30
622-96-8	4-Ethyltoluene	10.6	11.0	104	11.0	104	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	10.4	100	10.2	98	2	70-130/30
142-82-5	Heptane	10.4	9.8	94	9.6	92	2	70-130/30
87-68-3	Hexachlorobutadiene	11.7	19.6	168* [a]	19.1	163* [a]	3	70-130/30
110-54-3	Hexane	10.5	9.7	92	9.6	91	1	70-130/30
591-78-6	2-Hexanone	10.4	9.2	88	9.1	88	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.7	92	9.3	89	4	70-130/30
75-09-2	Methylene chloride	10.2	9.2	90	9.0	88	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.8	94	9.5	91	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	9.5	93	9.4	92	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10	95	9.8	93	2	70-130/30
80-62-6	Methylmethacrylate	10.3	10.3	100	10.1	98	2	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10.2	96	9.9	93	3	70-130/30
100-42-5	Styrene	10.9	11.4	105	11.4	105	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.8	104	10.5	101	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	11.2	102	11.1	101	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	10.9	104	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.6	142* [a]	16.4	140* [a]	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.5	106	11.3	104	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.2	105	11.1	104	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.7	95	9.4	92	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.8	81	7.7	80	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	13.7	128	13.4	125	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.6	99	0	70-130/30
108-88-3	Toluene	10.6	10.8	102	10.5	99	3	70-130/30
79-01-6	Trichloroethylene	9.9	10.1	102	10	101	1	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.7	106	10.4	103	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.9	87	8.7	85	2	70-130/30
108-05-4	Vinyl Acetate	10.2	10.2	100	9.9	97	3	70-130/30
	m,p-Xylene	21.2	21.4	101	21.3	100	0	70-130/30
95-47-6	o-Xylene	11	11.2	102	11.1	101	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.6	101	32.4	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	155		157		1	25
106-99-0	1,3-Butadiene	ND [a]		ND		nc	25
71-43-2	Benzene	0.28 [a]		ND		200* [b]	25
75-27-4	Bromodichloromethane	ND [a]		ND		nc	25
75-25-2	Bromoform	ND [a]		ND		nc	25
74-83-9	Bromomethane	ND [a]		ND		nc	25
593-60-2	Bromoethene	ND [a]		ND		nc	25
100-44-7	Benzyl Chloride	ND [a]		ND		nc	25
75-15-0	Carbon disulfide	ND [a]		ND		nc	25
108-90-7	Chlorobenzene	ND [a]		ND		nc	25
75-00-3	Chloroethane	ND [a]		ND		nc	25
67-66-3	Chloroform	0.24 [a]		ND		200* [b]	25
74-87-3	Chloromethane	0.11 [a]		ND		200* [b]	25
107-05-1	3-Chloropropene	ND [a]		ND		nc	25
95-49-8	2-Chlorotoluene	ND [a]		ND		nc	25
56-23-5	Carbon tetrachloride	ND [a]		ND		nc	25
110-82-7	Cyclohexane	0.18 [a]		ND		200* [b]	25
75-34-3	1,1-Dichloroethane	ND [a]		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND [a]		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND [a]		ND		nc	25
107-06-2	1,2-Dichloroethane	ND [a]		ND		nc	25
78-87-5	1,2-Dichloropropane	ND [a]		ND		nc	25
123-91-1	1,4-Dioxane	ND [a]		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.50 [a]		0.51	J	2	25
124-48-1	Dibromochloromethane	ND [a]		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND [a]		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND [a]		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND [a]		ND		nc	25
541-73-1	m-Dichlorobenzene	0.23 [a]		ND		200* [b]	25
95-50-1	o-Dichlorobenzene	ND [a]		ND		nc	25
106-46-7	p-Dichlorobenzene	ND [a]		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND [a]		ND		nc	25
64-17-5	Ethanol	205		209		2	25
100-41-4	Ethylbenzene	0.14 [a]		ND		200* [b]	25
141-78-6	Ethyl Acetate	17.7 [a]		16.3		8	25
622-96-8	4-Ethyltoluene	ND [a]		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND [a]		ND		nc	25
76-14-2	Freon 114	ND [a]		ND		nc	25
142-82-5	Heptane	5.6 [a]		5.1		9	25
87-68-3	Hexachlorobutadiene	ND [a]		ND		nc	25
110-54-3	Hexane	0.34 [a]		ND		200* [b]	25
591-78-6	2-Hexanone	ND [a]		ND		nc	25
67-63-0	Isopropyl Alcohol	11.9 [a]		12.5		5	25
75-09-2	Methylene chloride	0.27 [a]		ND		200* [b]	25
78-93-3	Methyl ethyl ketone	2.0 [a]		1.7		16	25
108-10-1	Methyl Isobutyl Ketone	ND [a]		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND [a]		ND		nc	25
80-62-6	Methylmethacrylate	4.9 [a]		4.6		6	25
91-20-3	Naphthalene	ND [a]		ND		nc	25
115-07-1	Propylene	ND [a]		ND		nc	25
100-42-5	Styrene	ND [a]		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND [a]		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND [a]		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND [a]		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND [a]		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND [a]		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND [a]		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	3.1 [a]		3.4		9	25
127-18-4	Tetrachloroethylene	0.76 [a]		0.80		5	25
109-99-9	Tetrahydrofuran	0.14 [a]		ND		200* [b]	25
108-88-3	Toluene	1.1 [a]		1.1		0	25
79-01-6	Trichloroethylene	ND [a]		ND		nc	25
75-69-4	Trichlorofluoromethane	1.0 [a]		1.0		0	25
75-01-4	Vinyl chloride	ND [a]		ND		nc	25
108-05-4	Vinyl Acetate	1.1 [a]		0.85		26* [c]	25
	m,p-Xylene	0.44 [a]		ND		200* [b]	25
95-47-6	o-Xylene	0.17 [a]		ND		200* [b]	25
1330-20-7	Xylenes (total)	0.61 [a]		ND		200* [b]	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-3, JE23793-4, JE23793-5, JE23793-6

CAS No.	Surrogate Recoveries	DUP	JE23789-3	JE23789-3	Limits
460-00-4	4-Bromofluorobenzene	109%	108%	109%	65-128%

(a) Result is from Run #2.
(b) RPD acceptable due to low DUP and sample concentrations.
(c) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23836-1DUP	5W60041.D	1	11/25/25	BK	n/a	n/a	V5W2302
JE23836-1	5W60040.D	1	11/25/25	BK	n/a	n/a	V5W2302

The QC reported here applies to the following samples: **Method:** TO-15

JE23793-1, JE23793-2, JE23793-4, JE23793-5, JE23793-6

CAS No.	Compound	JE23836-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	3.7		3.5		6	25
64-17-5	Ethanol	6.8		7.0		3	25

CAS No.	Surrogate Recoveries	DUP	JE23836-1	Limits
460-00-4	4-Bromofluorobenzene	106%	105%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23793-1(A1627), JE23793-5(M163), JE23793-6(A2086)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23793-1(A1627), JE23793-5(M163), JE23793-6(A2086)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23793-1(A1627), JE23793-5(M163), JE23793-6(A2086)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Summa Cleaning Certification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23793-2(A1687), JE23793-3(A1764), JE23793-4(A1472)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23793-2(A1687), JE23793-3(A1764), JE23793-4(A1472)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23793-2(A1687), JE23793-3(A1764), JE23793-4(A1472)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2292-BFB	**Injection Date:**	11/06/25
Lab File ID:	5W59768.D	**Injection Time:**	21:59
Instrument ID:	GCMS5W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	135749	18.8		Pass
75	30.0 - 66.0% of mass 95	334528	46.4		Pass
95	Base peak, 100% relative abundance	720341	100.0		Pass
96	5.0 - 9.0% of mass 95	49469	6.87		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	662677	92.0		Pass
175	4.0 - 9.01% of mass 174	51795	7.19	(7.82) [a]	Pass
176	93.0 - 101.0% of mass 174	657579	91.3	(99.2) [a]	Pass
177	5.0 - 9.0% of mass 176	45267	6.28	(6.88) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2292-IC2292	5W59769.D	11/06/25	22:35	00:36	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25	23:11	01:12	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25	23:50	01:51	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25	03:41	05:42	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25	06:57	08:58	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25	07:33	09:34	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25	08:12	10:13	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25	08:54	10:55	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25	09:38	11:39	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25	10:24	12:25	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25	12:25	14:26	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2301-BFB
Lab File ID: 5W60000.D
Instrument ID: GCMS5W
Injection Date: 11/24/25
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	126995	16.6		Pass
75	30.0 - 66.0% of mass 95	346987	45.5		Pass
95	Base peak, 100% relative abundance	763029	100.0		Pass
96	5.0 - 9.0% of mass 95	51400	6.74		Pass
173	Less than 2.0% of mass 174	6908	0.91	(0.88) [a]	Pass
174	50.0 - 120.0% of mass 95	783595	102.7		Pass
175	4.0 - 9.01% of mass 174	58229	7.63	(7.43) [a]	Pass
176	93.0 - 101.0% of mass 174	761195	99.8	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	50824	6.66	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2301-CC2292	5W60001.D	11/24/25	09:49	00:37	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25	12:02	02:50	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25	12:39	03:27	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25	14:27	05:15	Method Blank
ZZZZZZ	5W60006.D	11/24/25	15:18	06:06	(unrelated sample)
JE23789-3	5W60007.D	11/24/25	15:56	06:44	(used for QC only; not part of job JE23793)
JE23789-3DUP	5W60008.D	11/24/25	16:33	07:21	Duplicate
ZZZZZZ	5W60009.D	11/24/25	17:15	08:03	(unrelated sample)
ZZZZZZ	5W60010.D	11/24/25	17:58	08:46	(unrelated sample)
ZZZZZZ	5W60011.D	11/24/25	18:41	09:29	(unrelated sample)
ZZZZZZ	5W60012.D	11/24/25	19:25	10:13	(unrelated sample)
ZZZZZZ	5W60013.D	11/24/25	20:08	10:56	(unrelated sample)
ZZZZZZ	5W60014.D	11/24/25	20:52	11:40	(unrelated sample)
JE23793-1	5W60015.D	11/24/25	21:35	12:23	SS-5
JE23793-2	5W60016.D	11/24/25	22:19	13:07	IA-5
JE23793-3	5W60017.D	11/24/25	23:02	13:50	SS-6
JE23793-4	5W60018.D	11/24/25	23:46	14:34	IA-6
JE23793-5	5W60019.D	11/25/25	00:29	15:17	DUP SS
JE23793-6	5W60020.D	11/25/25	01:14	16:02	DUP IA
ZZZZZZ	5W60021.D	11/25/25	01:58	16:46	(unrelated sample)
ZZZZZZ	5W60022.D	11/25/25	02:43	17:31	(unrelated sample)
ZZZZZZ	5W60023.D	11/25/25	03:27	18:15	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25	04:12	19:00	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25	05:54	20:42	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2301-BFB	**Injection Date:**	11/24/25
Lab File ID:	5W60000.D	**Injection Time:**	09:12
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W60027.D	11/25/25	06:37	21:25	(unrelated sample)
JE23789-3	5W60028.D	11/25/25	07:20	22:08	(used for QC only; not part of job JE23793)
ZZZZZZ	5W60029.D	11/25/25	07:57	22:45	(unrelated sample)
ZZZZZZ	5W60030.D	11/25/25	08:34	23:22	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2302-BFB
Lab File ID: 5W60032.D
Instrument ID: GCMS5W
Injection Date: 11/25/25
Injection Time: 10:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	130963	17.2		Pass
75	30.0 - 66.0% of mass 95	348164	45.8		Pass
95	Base peak, 100% relative abundance	760597	100.0		Pass
96	5.0 - 9.0% of mass 95	52472	6.90		Pass
173	Less than 2.0% of mass 174	6427	0.84	(0.88) [a]	Pass
174	50.0 - 120.0% of mass 95	728939	95.8		Pass
175	4.0 - 9.01% of mass 174	55245	7.26	(7.58) [a]	Pass
176	93.0 - 101.0% of mass 174	707051	93.0	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	47832	6.29	(6.76) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2302-CC2292	5W60033.D	11/25/25	11:25	01:20	Continuing cal 10
V5W2302-BS	5W60034.D	11/25/25	12:07	02:02	Blank Spike
V5W2302-BSD	5W60035.D	11/25/25	12:44	02:39	Blank Spike Duplicate
V5W2302-MB	5W60038.D	11/25/25	15:07	05:02	Method Blank
ZZZZZZ	5W60039.D	11/25/25	15:53	05:48	(unrelated sample)
JE23836-1	5W60040.D	11/25/25	16:35	06:30	(used for QC only; not part of job JE23793)
JE23836-1DUP	5W60041.D	11/25/25	17:18	07:13	Duplicate
ZZZZZZ	5W60042.D	11/25/25	17:54	07:49	(unrelated sample)
JE23793-1	5W60043.D	11/25/25	18:32	08:27	SS-5
JE23793-2	5W60044.D	11/25/25	19:09	09:04	IA-5
JE23793-4	5W60045.D	11/25/25	19:46	09:41	IA-6
JE23793-5	5W60046.D	11/25/25	20:23	10:18	DUP SS
JE23793-6	5W60047.D	11/25/25	20:59	10:54	DUP IA
JE23793-1	5W60048.D	11/25/25	21:36	11:31	SS-5
JE23793-4	5W60049.D	11/25/25	22:13	12:08	IA-6
JE23793-6	5W60050.D	11/25/25	22:50	12:45	DUP IA
ZZZZZZ	5W60051.D	11/25/25	23:27	13:22	(unrelated sample)
JE23793-6	5W60052.D	11/26/25	00:03	13:58	DUP IA
ZZZZZZ	5W60053.D	11/26/25	00:40	14:35	(unrelated sample)
ZZZZZZ	5W60054.D	11/26/25	01:16	15:11	(unrelated sample)
ZZZZZZ	5W60055.D	11/26/25	01:52	15:47	(unrelated sample)
ZZZZZZ	5W60056.D	11/26/25	02:28	16:23	(unrelated sample)
ZZZZZZ	5W60057.D	11/26/25	03:04	16:59	(unrelated sample)
ZZZZZZ	5W60058.D	11/26/25	03:40	17:35	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2302-BFB	**Injection Date:**	11/25/25
Lab File ID:	5W60032.D	**Injection Time:**	10:05
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W60059.D	11/26/25	04:16	18:11	(unrelated sample)
ZZZZZZ	5W60060.D	11/26/25	04:52	18:47	(unrelated sample)
ZZZZZZ	5W60061.D	11/26/25	05:28	19:23	(unrelated sample)
ZZZZZZ	5W60062.D	11/26/25	06:04	19:59	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-BFB
Lab File ID: 7W16573.D
Instrument ID: GCMS7W
Injection Date: 08/07/25
Injection Time: 02:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	26979	21.8		Pass
75	30.0 - 66.0% of mass 95	60811	49.0		Pass
95	Base peak, 100% relative abundance	123992	100.0		Pass
96	5.0 - 9.0% of mass 95	7953	6.41		Pass
173	Less than 2.0% of mass 174	724	0.58	(0.83) [a]	Pass
174	50.0 - 120.0% of mass 95	87088	70.2		Pass
175	4.0 - 9.01% of mass 174	6502	5.24	(7.47) [a]	Pass
176	93.0 - 101.0% of mass 174	87355	70.5	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	5835	4.71	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W577-IC577	7W16576.D	08/07/25	04:00	01:55	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25	04:38	02:33	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25	08:36	06:31	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25	09:13	07:08	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25	12:29	10:24	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25	13:07	11:02	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25	13:47	11:42	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25	14:30	12:25	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25	15:15	13:10	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25	16:02	13:57	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25	18:07	16:02	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W613-BFB
Lab File ID: 7W17472.D
Instrument ID: GCMS7W
Injection Date: 09/26/25
Injection Time: 10:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	24211	19.5		Pass
75	30.0 - 66.0% of mass 95	60491	48.8		Pass
95	Base peak, 100% relative abundance	124040	100.0		Pass
96	5.0 - 9.0% of mass 95	8048	6.49		Pass
173	Less than 2.0% of mass 174	644	0.52	(0.57) [a]	Pass
174	50.0 - 120.0% of mass 95	113392	91.4		Pass
175	4.0 - 9.01% of mass 174	8039	6.48	(7.09) [a]	Pass
176	93.0 - 101.0% of mass 174	109491	88.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7193	5.80	(6.57) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W613-CC577	7W17473.D	09/26/25	11:04	00:39	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25	11:54	01:29	Blank Spike
V7W613-BSD	7W17475.D	09/26/25	12:32	02:07	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25	14:01	03:36	Method Blank
ZZZZZZ	7W17478.D	09/26/25	15:51	05:26	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25	16:43	06:18	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25	17:30	07:05	(unrelated sample)
JE19193-2	7W17481.D	09/26/25	18:21	07:56	(used for QC only; not part of job JE23793)
JE19193-2DUP	7W17482.D	09/26/25	19:09	08:44	Duplicate
V7W613-SCC	7W17483.D	09/26/25	19:55	09:30	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25	20:38	10:13	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25	21:22	10:57	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25	22:06	11:41	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25	22:50	12:25	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25	23:33	13:08	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25	00:13	13:48	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25	00:52	14:27	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25	01:31	15:06	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25	02:11	15:46	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25	02:50	16:25	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25	03:29	17:04	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25	04:08	17:43	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25	04:48	18:23	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W624-BFB	**Injection Date:**	10/13/25
Lab File ID:	7W17800.D	**Injection Time:**	10:41
Instrument ID:	GCMS7W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	32653	19.8		Pass
75	30.0 - 66.0% of mass 95	83059	50.4		Pass
95	Base peak, 100% relative abundance	164693	100.0		Pass
96	5.0 - 9.0% of mass 95	10435	6.34		Pass
173	Less than 2.0% of mass 174	1376	0.84	(0.93) [a]	Pass
174	50.0 - 120.0% of mass 95	148181	90.0		Pass
175	4.0 - 9.01% of mass 174	10927	6.63	(7.37) [a]	Pass
176	93.0 - 101.0% of mass 174	148821	90.4	(100.4) [a]	Pass
177	5.0 - 9.0% of mass 176	9210	5.59	(6.19) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W624-CC577	7W17801.D	10/13/25	11:18	00:37	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25	12:00	01:19	Blank Spike
V7W624-BSD	7W17803.D	10/13/25	12:37	01:56	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25	14:03	03:22	Method Blank
ZZZZZZ	7W17806.D	10/13/25	15:24	04:43	(unrelated sample)
JE20702-1	7W17807.D	10/13/25	16:09	05:28	(used for QC only; not part of job JE23793)
JE20702-1DUP	7W17808.D	10/13/25	16:55	06:14	Duplicate
ZZZZZZ	7W17809.D	10/13/25	17:45	07:04	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25	18:38	07:57	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25	19:25	08:44	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25	20:14	09:33	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25	21:05	10:24	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25	21:58	11:17	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25	22:49	12:08	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25	23:42	13:01	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25	00:27	13:46	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25	01:14	14:33	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25	02:02	15:21	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25	02:51	16:10	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25	03:40	16:59	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25	04:19	17:38	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25	04:58	18:17	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25	05:38	18:57	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25	06:17	19:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W624-BFB	**Injection Date:**	10/13/25
Lab File ID:	7W17800.D	**Injection Time:**	10:41
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W17826.D	10/14/25	06:55	20:14	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25	07:39	20:58	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25	08:23	21:42	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25	09:07	22:26	Summa Cleaning Certification

Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V5W2301-CC2292	**Injection Date:**	11/24/25
Lab File ID:	5W60001.D	**Injection Time:**	09:49
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	470220	7.35	2049823	9.21	1097928	13.53
Upper Limit [a]	658308	7.68	2869752	9.54	1537099	13.86
Lower Limit [b]	282132	7.02	1229894	8.88	658757	13.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2301-BS	477635	7.35	2106400	9.21	1093252	13.53
V5W2301-BSD	479179	7.35	2114849	9.21	1129270	13.53
V5W2301-MB	551412	7.35	2422137	9.21	1175032	13.53
ZZZZZZ	479276	7.34	2151488	9.20	1006479	13.53
JE23789-3	486262	7.35	2215300	9.21	1093617	13.53
JE23789-3DUP	490041	7.35	2190031	9.21	1089506	13.53
ZZZZZZ	467172	7.35	2081525	9.21	995730	13.53
ZZZZZZ	492269	7.35	2182901	9.21	1069119	13.53
ZZZZZZ	456556	7.35	2083658	9.21	1040810	13.53
ZZZZZZ	478467	7.35	2172826	9.21	1077180	13.53
ZZZZZZ	475205	7.35	2156975	9.21	973217	13.53
ZZZZZZ	468744	7.35	2166394	9.21	1085776	13.53
JE23793-1	474128	7.35	2121035	9.21	1035907	13.53
JE23793-2	481013	7.35	2162967	9.21	1070422	13.53
JE23793-3	475052	7.35	2137020	9.21	997545	13.53
JE23793-4	474848	7.36	2108916	9.21	1017029	13.53
JE23793-5	488279	7.35	2202107	9.21	1020272	13.53
JE23793-6	464538	7.35	2148688	9.21	1036446	13.53
ZZZZZZ	494809	7.34	2211542	9.20	1056914	13.53
ZZZZZZ	469833	7.35	2110422	9.21	1027988	13.53
ZZZZZZ	476461	7.35	2112621	9.21	1018512	13.53
ZZZZZZ	489936	7.35	2117411	9.21	1030226	13.53
ZZZZZZ	488795	7.35	2169845	9.21	1097700	13.53
ZZZZZZ	457379	7.35	2030446	9.21	965813	13.53
JE23789-3	487990	7.35	2191861	9.21	1085055	13.53
ZZZZZZ	467512	7.34	2049365	9.21	954808	13.53
ZZZZZZ	474173	7.35	2069410	9.21	971499	13.53

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V5W2302-CC2292	**Injection Date:**	11/25/25
Lab File ID:	5W60033.D	**Injection Time:**	11:25
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	479901	7.35	2125026	9.21	1123740	13.53
Upper Limit [a]	671861	7.68	2975036	9.54	1573236	13.86
Lower Limit [b]	287941	7.02	1275016	8.88	674244	13.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2302-BS	484085	7.35	2150988	9.21	1139142	13.53
V5W2302-BSD	491831	7.35	2169558	9.21	1169223	13.53
V5W2302-MB	534553	7.34	2339544	9.21	1127485	13.53
ZZZZZZ	485702	7.35	2116733	9.21	975259	13.53
JE23836-1	503753	7.34	2256000	9.21	1110199	13.53
JE23836-1DUP	486599	7.35	2151791	9.21	1070377	13.53
ZZZZZZ	470578	7.35	2109256	9.21	1023811	13.53
JE23793-1	438072	7.35	1718293	9.21	876380	13.53
JE23793-2	463002	7.34	2025402	9.21	1021059	13.53
JE23793-4	460185	7.35	1978146	9.21	925146	13.53
JE23793-5	464009	7.34	2093839	9.21	1020883	13.53
JE23793-6	450636	7.35	1978369	9.21	911648	13.53
JE23793-1	443041	7.34	1774355	9.21	912757	13.53
JE23793-4	441511	7.35	1900700	9.21	912612	13.53
JE23793-6	451040	7.35	1905444	9.21	923639	13.53
ZZZZZZ	444195	7.35	1902986	9.21	885047	13.53
JE23793-6	453780	7.35	1937056	9.21	893133	13.53
ZZZZZZ	424903	7.35	1767695	9.21	867969	13.53
ZZZZZZ	436535	7.35	1874650	9.21	930904	13.53
ZZZZZZ	528997	7.35	2381590	9.21	1147182	13.53
ZZZZZZ	502439	7.35	2179736	9.21	1015014	13.53
ZZZZZZ	432891	7.35	1916933	9.21	922717	13.53
ZZZZZZ	432805	7.35	1814949	9.21	864470	13.53
ZZZZZZ	439626	7.35	1857490	9.21	893743	13.53
ZZZZZZ	437690	7.35	1921626	9.21	894129	13.53
ZZZZZZ	448159	7.35	1951260	9.21	945257	13.53
ZZZZZZ	423306	7.35	1859267	9.21	861435	13.53

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W613-CC577	**Injection Date:**	09/26/25
Lab File ID:	7W17473.D	**Injection Time:**	11:04
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	116358	3.19	571811	4.45	520899	9.97
Upper Limit [a]	162901	3.52	800535	4.78	729259	10.30
Lower Limit [b]	69815	2.86	343087	4.12	312539	9.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W613-BS	117537	3.19	576557	4.45	537853	9.97
V7W613-BSD	119187	3.19	585415	4.45	537645	9.97
V7W613-MB	128174	3.19	642694	4.45	594320	9.96
ZZZZZZ	119787	3.19	602923	4.45	564591	9.96
ZZZZZZ	115596	3.19	572850	4.45	549268	9.97
ZZZZZZ	119426	3.19	598587	4.45	559501	9.97
JE19193-2	112064	3.19	565732	4.45	535025	9.96
JE19193-2DUP	119852	3.19	593173	4.45	552085	9.97
V7W613-SCC	122841	3.19	609530	4.45	568575	9.97
V7W613-SCC	123267	3.19	612589	4.45	566370	9.97
V7W613-SCC	124035	3.19	614922	4.45	572447	9.97
V7W613-SCC	122792	3.19	613182	4.45	569186	9.97
V7W613-SCC	123364	3.19	617156	4.45	570765	9.96
V7W613-SCC	121230	3.19	603406	4.45	557323	9.97
V7W613-SCC	124644	3.20	619956	4.46	573347	9.97
V7W613-SCC	122766	3.20	607988	4.46	562421	9.97
V7W613-SCC	122015	3.20	599456	4.46	558700	9.97
V7W613-SCC	123531	3.20	612393	4.46	566814	9.97
V7W613-SCC	121013	3.20	597047	4.46	554808	9.97
V7W613-SCC	125065	3.20	614767	4.46	568943	9.97
V7W613-SCC	124050	3.21	612021	4.46	566843	9.97
V7W613-SCC	122222	3.20	607269	4.46	565306	9.97

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W624-CC577	**Injection Date:**	10/13/25
Lab File ID:	7W17801.D	**Injection Time:**	11:18
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	133953	3.19	659891	4.45	616286	9.96
Upper Limit [a]	187534	3.52	923847	4.78	862800	10.29
Lower Limit [b]	80372	2.86	395935	4.12	369772	9.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W624-BS	130379	3.19	642815	4.45	599585	9.97
V7W624-BSD	133015	3.19	654252	4.45	606507	9.97
V7W624-MB	141808	3.19	703798	4.45	657479	9.96
ZZZZZZ	135394	3.21	669430	4.46	626248	9.97
JE20702-1	133082	3.19	664568	4.45	629037	9.96
JE20702-1DUP	127619	3.19	640507	4.45	607064	9.96
ZZZZZZ	128810	3.19	643176	4.45	605309	9.96
ZZZZZZ	125599	3.19	622159	4.45	593488	9.96
ZZZZZZ	127374	3.19	637226	4.45	604051	9.96
ZZZZZZ	125963	3.19	637764	4.45	602349	9.96
ZZZZZZ	131364	3.19	653605	4.45	609498	9.97
ZZZZZZ	123237	3.19	615381	4.45	583060	9.96
ZZZZZZ	131555	3.19	651668	4.45	604825	9.96
ZZZZZZ	123888	3.19	619782	4.45	585599	9.96
ZZZZZZ	122352	3.19	617796	4.45	579165	9.96
ZZZZZZ	122263	3.21	606145	4.46	576052	9.97
ZZZZZZ	123557	3.21	619493	4.46	584556	9.97
ZZZZZZ	129322	3.20	648769	4.46	605277	9.97
ZZZZZZ	130607	3.20	657333	4.46	618632	9.97
ZZZZZZ	127305	3.21	641300	4.46	595091	9.97
ZZZZZZ	132250	3.20	664281	4.46	620218	9.97
ZZZZZZ	131975	3.21	668505	4.46	623685	9.97
ZZZZZZ	127594	3.21	644592	4.46	596854	9.97
ZZZZZZ	133020	3.20	677172	4.46	625775	9.97
V7W624-SCC	133491	3.19	659279	4.45	611978	9.97
V7W624-SCC	139794	3.19	685797	4.45	636271	9.97
V7W624-SCC	138603	3.19	685964	4.45	631471	9.96

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.35	0.644	ok	0.638	0.578-0.698
Acrolein	4.62	7.35	0.629	ok	0.623	0.563-0.683
Acrylonitrile	5.11	7.35	0.695	ok	0.688	0.628-0.748
Acetonitrile	4.53	7.35	0.616	ok	0.611	0.551-0.671
1,3-Butadiene	3.93	7.35	0.535	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.40	13.53	1.138	ok	1.136	1.076-1.196
Bromodichloromethane	9.87	9.21	1.072	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.62	13.53	1.228	ok	1.225	1.165-1.285
n-Butylbenzene	17.33	13.53	1.281	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.45	13.53	1.216	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.49	7.35	1.019	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.54	7.35	0.754	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.10	9.21	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.44	7.35	0.876	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.45	13.53	0.920	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.80	9.21	1.281	ok	1.277	1.217-1.337
1,4-Dioxane	10.05	9.21	1.091	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.30	7.35	0.585	ok	0.583	0.523-0.643
Dibromochloromethane	12.18	13.53	0.900	ok	0.898	0.838-0.958
Dibromomethane	9.65	9.21	1.048	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.79	9.21	1.172	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.62	13.53	1.228	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.01	13.53	1.257	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.68	13.53	1.233	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.36	9.21	1.233	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.46	7.35	1.015	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.35	7.35	0.592	ok	0.589	0.529-0.649
Ethylbenzene	14.03	13.53	1.037	ok	1.034	0.974-1.094
Ethyl Acetate	7.21	7.35	0.981	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.25	13.53	0.905	ok	0.891	0.831-0.951
4-Ethyltoluene	16.00	13.53	1.183	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.38	7.35	0.460	ok	0.458	0.398-0.518
Freon 123	4.61	7.35	0.627	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.46	7.35	0.471	ok	0.468	0.408-0.528
Heptane	10.21	9.21	1.109	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.32	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.94	7.35	0.672	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.89	13.53	1.248	ok	1.246	1.186-1.306
Methyl Acrylate	7.40	7.35	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl Tert Butyl Ether	6.56	7.35	0.893	ok	0.884	0.824-0.944
alpha-Methylstyrene	16.25	13.53	1.201	ok	1.197	1.137-1.257
Naphthalene	18.73	13.53	1.384	ok	1.380	1.320-1.440
Nonane	14.94	13.53	1.104	ok	1.103	1.043-1.163
Octane	12.77	13.53	0.944	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.86	13.53	1.172	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.70	13.53	1.086	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.71	13.53	1.087	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.48	9.21	1.246	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.92	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.87	13.53	1.247	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.47	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.07	13.53	1.188	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Toluene	11.76	9.21	1.277	ok	1.273	1.213-1.333
Trichloroethylene	9.91	9.21	1.076	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.22	13.53	1.051	ok	1.048	0.988-1.108
o-Xylene	14.71	13.53	1.087	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.10	13.53	0.377	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	470818	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2113713	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1047801	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.09	7.35	0.693	ok	0.688	0.628-0.748
Acetonitrile	4.52	7.35	0.615	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.60	13.53	1.227	ok	1.225	1.165-1.285
n-Butylbenzene	17.29	13.53	1.278	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.44	13.53	1.215	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.43	13.53	0.919	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.79	9.21	1.280	ok	1.277	1.217-1.337
1,4-Dioxane	10.03	9.21	1.089	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.17	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.78	9.21	1.170	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.60	13.53	1.227	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.00	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.67	13.53	1.232	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.33	9.21	1.230	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.45	7.35	1.014	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.02	13.53	1.036	ok	1.034	0.974-1.094
Ethyl Acetate	7.54	7.35	1.026	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.12	13.53	0.896	ok	0.891	0.831-0.951
4-Ethyltoluene	15.98	13.53	1.181	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.20	9.21	1.107	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.51	7.35	1.022	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.92	7.35	0.941	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.96	9.21	1.190	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.55	7.35	0.891	ok	0.884	0.824-0.944
Methylmethacrylate	10.22	9.21	1.110	ok	1.100	1.040-1.160
alpha-Methylstyrene	16.23	13.53	1.200	ok	1.197	1.137-1.257
Naphthalene	18.70	13.53	1.382	ok	1.380	1.320-1.440

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.76	13.53	0.943	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.85	13.53	1.171	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.62	13.53	1.081	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.91	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.46	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Tetrahydrofuran	7.97	7.35	1.084	ok	1.072	1.012-1.132
Toluene	11.75	9.21	1.276	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.20	13.53	1.050	ok	1.048	0.988-1.108
o-Xylene	14.70	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	483296	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2143191	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1063437	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.08	7.35	0.691	ok	0.688	0.628-0.748
Acetonitrile	4.51	7.35	0.614	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.26	13.53	1.054	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.59	13.53	1.226	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.41	13.53	0.917	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.78	9.21	1.279	ok	1.277	1.217-1.337
1,4-Dioxane	10.00	9.21	1.086	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.77	9.21	1.169	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.99	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.31	9.21	1.228	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.44	7.35	1.012	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.00	13.53	1.035	ok	1.034	0.974-1.094
Ethyl Acetate	7.50	7.35	1.020	ok	1.010	0.950-1.070
Ethyl Acrylate	9.80	9.21	1.064	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.08	13.53	0.893	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.17	13.53	0.899	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.49	7.35	1.019	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.90	7.35	0.939	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.89	9.21	1.182	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.54	7.35	0.890	ok	0.884	0.824-0.944
Methylmethacrylate	10.17	9.21	1.104	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.22	13.53	1.199	ok	1.197	1.137-1.257
Naphthalene	18.68	13.53	1.381	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.83	13.53	1.170	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.60	13.53	1.079	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.90	13.53	1.397	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.84	13.53	1.097	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.53	1.216	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.46	7.35	0.743	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.95	7.35	1.082	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.62	7.35	0.901	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.53	1.049	ok	1.048	0.988-1.108
o-Xylene	14.69	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	467597	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2126307	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1045384	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.71	7.35	0.641	ok	0.638	0.578-0.698
Acrolein	4.59	7.35	0.624	ok	0.623	0.563-0.683
Acrylonitrile	5.06	7.35	0.688	ok	0.688	0.628-0.748
Acetonitrile	4.50	7.35	0.612	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.53	1.053	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.53	1.225	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.35	0.476	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.53	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.35	1.113	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.21	1.049	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.77	9.21	1.278	ok	1.277	1.217-1.337
1,4-Dioxane	9.97	9.21	1.083	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.21	1.168	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.53	1.255	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.30	9.21	1.227	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.42	7.35	1.010	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.53	1.034	ok	1.034	0.974-1.094
Ethyl Acetate	7.47	7.35	1.016	ok	1.010	0.950-1.070
Ethyl Acrylate	9.74	9.21	1.058	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.05	13.53	0.891	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.08	13.53	0.893	ok	0.889	0.829-0.949
Iodomethane	5.25	7.35	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.53	1.131	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.91	7.35	0.668	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.53	1.246	ok	1.246	1.186-1.306
Methyl Acrylate	7.45	7.35	1.014	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.86	7.35	0.933	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.85	9.21	1.178	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.52	7.35	0.887	ok	0.884	0.824-0.944
Methylmethacrylate	10.14	9.21	1.101	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.21	13.53	1.198	ok	1.197	1.137-1.257
Naphthalene	18.67	13.53	1.380	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.53	1.169	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.59	13.53	1.078	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.46	9.21	1.244	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.53	1.396	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.83	13.53	1.096	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.53	1.245	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.53	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.44	7.35	0.740	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.92	7.35	1.078	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.60	7.35	0.898	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.53	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.53	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	472964	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2121089	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1052969	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.68	7.35	0.637	ok	0.638	0.578-0.698
Acrolein	4.58	7.35	0.623	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.35	0.687	ok	0.688	0.628-0.748
Acetonitrile	4.49	7.35	0.611	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.91	9.21	1.076	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.43	7.35	1.011	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.21	1.052	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.02	13.54	0.888	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.35	0.664	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.80	9.21	1.173	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.49	7.35	0.883	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.87	7.35	1.071	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.35	0.894	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	462457	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2061895	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1060612	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.35	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.35	0.622	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.35	0.686	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.35	0.610	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.90	9.21	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.19	7.35	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.35	1.010	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.54	0.887	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.29	13.54	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.35	0.663	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.85	13.54	1.244	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.48	7.35	0.882	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.86	7.35	1.069	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.56	7.35	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	458592	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2019630	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1088548	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.36	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.49	7.36	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.21	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.36	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.60	7.36	0.625	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.45	7.36	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.85	7.36	1.067	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.36	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	450013	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	1932450	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1113631	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.54	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.54	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.22	1.047	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.54	0.898	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.22	1.223	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.94	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.54	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.54	1.085	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.54	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	458599	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1942721	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1247352	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.56	7.36	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.55	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.10	7.36	0.557	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.94	7.36	0.535	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.55	1.223	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.55	1.274	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.36	0.573	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.36	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.36	1.018	ok	1.017	0.957-1.077
Chloromethane	3.66	7.36	0.497	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.36	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.55	1.229	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.25	7.36	0.713	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.55	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.49	7.36	0.474	ok	0.476	0.416-0.536
Styrene	14.57	13.55	1.075	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.55	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.55	1.184	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.81	7.36	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	467162	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1929313	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1280918	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.37	0.634	ok	0.638	0.578-0.698
Acrolein	4.57	7.37	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.37	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.37	0.608	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.37	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.55	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.37	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.37	0.608	ok	0.610	0.550-0.670
n-Butane	3.95	7.37	0.536	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.55	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.55	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.37	0.769	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.37	0.472	ok	0.473	0.413-0.533
Chloroethane	4.23	7.37	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.37	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.37	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.37	0.498	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.37	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.37	1.221	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.37	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.37	0.722	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.37	1.110	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.37	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.37	0.582	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.37	0.847	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.37	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.55	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.37	1.003	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.37	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.37	0.586	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.37	1.007	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.22	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.37	0.765	ok	0.767	0.707-0.827
Freon 114	3.73	7.37	0.506	ok	0.507	0.447-0.567
Freon 115	3.37	7.37	0.457	ok	0.458	0.398-0.518
Freon 123	4.60	7.37	0.624	ok	0.625	0.565-0.685
Freon 123A	4.64	7.37	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.37	0.495	ok	0.496	0.436-0.556
Freon 152A	3.44	7.37	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.37	1.001	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.37	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.55	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.37	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.37	1.005	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.37	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.37	0.921	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.37	0.878	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.37	0.688	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.50	7.37	0.475	ok	0.476	0.416-0.536
Styrene	14.58	13.55	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.37	1.141	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.55	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.55	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.37	0.729	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.37	1.064	ok	1.072	1.012-1.132
Toluene	11.73	9.22	1.272	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.37	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.37	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.37	0.891	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.36	7.03-7.69	467614	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1973593	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1346242	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.96	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.92	4.45	1.106	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.73	4.45	1.737	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.07	4.45	1.364	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.96	1.346	ok	1.345	1.285-1.405
Octane	8.98	4.45	2.018	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.96	1.213	ok	1.211	1.151-1.271

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.96	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.78	4.45	1.524	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.33	9.96	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114117	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	582166	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	538138	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.96	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.96	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.96	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.17	9.96	1.623	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.39	9.96	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.12	9.96	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.96	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.28	9.96	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.96	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.96	1.701	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.96	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.83	9.96	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.82	3.19	0.884	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.96	1.140	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	113084	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	573427	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	530262	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.96	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.59	9.96	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.96	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.96	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.34	4.45	0.975	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.09	4.45	1.144	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.96	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.72	4.45	1.735	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.96	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.96	1.345	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.06	9.96	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.49	3.19	1.094	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.34	9.96	1.139	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.96	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114690	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	581918	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	540272	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.97	1.368	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.97	1.118	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.06	4.45	1.137	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.94	3.19	0.608	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.56	9.97	1.260	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.97	1.698	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.48	3.19	1.091	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.27	9.97	1.231	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114041	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	577981	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	540711	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.97	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.18	4.45	1.613	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
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V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.36	9.97	1.842	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.97	1.837	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110309	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	561645	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511167	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.97	1.654	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110672	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	555876	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511162	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.37	3.19	0.743	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.30	9.97	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.97	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109480	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	545187	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	503767	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109851	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	546669	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	501897	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.68	9.97	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	105717	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531881	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	494368	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.51	9.97	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.06	9.97	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.27	3.19	1.025	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.02	4.45	1.802	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.67	3.19	1.150	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.95	4.45	1.337	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.81	9.97	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.42	9.97	1.346	ok	1.345	1.285-1.405
Octane	9.01	4.45	2.025	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.32	9.97	1.236	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.95	9.97	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.86	4.45	1.991	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.37	9.97	1.140	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	106909	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531012	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	486982	ok	515873	309524-722222

Surrogate Recovery Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JE23793-1	5W60043.D	113
JE23793-1	5W60048.D	113
JE23793-1	5W60015.D	108
JE23793-2	5W60044.D	104
JE23793-2	5W60016.D	106
JE23793-3	5W60017.D	112
JE23793-4	5W60045.D	109
JE23793-4	5W60049.D	109
JE23793-4	5W60018.D	112
JE23793-5	5W60046.D	104
JE23793-5	5W60019.D	112
JE23793-6	5W60047.D	110
JE23793-6	5W60050.D	105
JE23793-6	5W60052.D	109
JE23793-6	5W60020.D	108
JE23789-3DUP	5W60008.D	109
JE23836-1DUP	5W60041.D	106
V5W2301-BS	5W60002.D	99
V5W2301-BSD	5W60003.D	99
V5W2301-MB	5W60005.D	106
V5W2302-BS	5W60034.D	99
V5W2302-BSD	5W60035.D	99
V5W2302-MB	5W60038.D	107
V7W613-SCC	7W17483.D	94
V7W624-SCC	7W17827.D	95
V7W613-BS	7W17474.D	98
V7W613-BSD	7W17475.D	99
V7W613-MB	7W17477.D	94
V7W624-BS	7W17802.D	101
V7W624-BSD	7W17803.D	100
V7W624-MB	7W17805.D	95

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICC2292
Lab FileID: 5W59783.D

Response Factor Report GCMS5W

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Calibration Files
0.04=5w59769.D 0.1 =5w59770.D 0.2 =5w59771.D 0.5 =5w59777.D
5 =5w59782.D 10 =5w59783.D 20 =5w59784.D 40 =5w59785.D
50 =5w59786.D 60 =5w59787.D = =

Compound	0.04	0.1	0.2	0.5	5	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	0.904	0.623	0.441	0.867	0.844	0.649	0.468				0.685	27.83
3) FREON 152A	1.190	0.843	0.777	0.639	0.629	0.634	0.654	0.669	0.679	0.703	0.742	23.17
4) CHLORODIFLUOROMETHANE	0.261	0.310	0.322	0.317	0.319	0.318	0.321	0.312	0.309	0.313	0.310	5.70
5) CHLOROTRIFLUOROETHENE	1.547	1.519	1.498	1.506	1.563	1.584	1.608	1.574	1.553	1.582	1.553	2.33
6) DICHLORODIFLUOROMETHANE	2.985	2.960	2.993	2.976	2.973	2.974	2.928	2.665	2.607	2.557	2.862	6.17
7) PROPYLENE	1.163	0.858	0.858	0.767	0.686	0.687	0.692	0.670	0.647	0.647	0.768	20.84
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.780	2.706	2.572	2.594	2.313	2.270	2.220	1.987	1.876	1.858	2.318	14.62
9) FREON 114	2.937	2.861	2.921	2.907	2.796	2.727	2.639	2.259	2.075	2.040	2.616	13.59
10) CHLOROMETHANE	0.431	0.378	0.356	0.335	0.302	0.297	0.293	0.263	0.244	0.242	0.314	19.44
11) VINYL CHLORIDE	1.049	1.003	1.074	1.031	1.012	1.001	0.979	0.875	0.834	0.829	0.969	9.24
12) 1,3-BUTADIENE	0.749	0.651	0.660	0.616	0.592	0.574	0.542	0.498	0.476	0.474	0.583	15.30
13) n-BUTANE	1.389	1.067	1.063	1.022	0.942	0.918	0.873	0.782	0.739	0.736	0.953	20.68
14) BROMOMETHANE	1.246	1.098	1.104	1.032	1.048	1.039	1.003	0.930	0.898	0.905	1.030	10.28
15) CHLOROETHANE	0.741	0.573	0.510	0.453	0.430	0.429	0.383	0.375	0.359		0.473	25.66
16) DICHLOROFLUOROMETHANE	2.476	2.142	2.254	2.245	2.119	2.098	2.008	1.802	1.755	1.690	2.059	12.07
17) ACETONITRILE	0.672	0.547	0.640	0.621	0.555	0.546	0.514	0.465	0.444	0.440	0.544	14.95
18) ACROLEIN	0.368	0.324	0.348	0.304	0.344	0.324	0.299	0.268	0.257	0.259	0.309	12.60
19) FREON 123	3.217	2.695	2.600	2.612	2.453	2.381	2.248	1.947	1.846	1.818	2.382	18.31
20) FREON 123A	1.580	1.536	1.456	1.509	1.438	1.391	1.317	1.182	1.137	1.133	1.368	12.24
21) TRICHLOROFLUOROMETHANE	2.581	2.586	2.629	2.688	2.603	2.488	2.433	2.204	2.126	2.106	2.445	8.97
22) ISOPROPYL ALCOHOL	2.614	2.508	2.222	2.040	1.950	1.865	1.714	1.590	1.499	1.605	1.961	19.74
23) ACETONE												

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                    0.630 0.436 0.382 0.383 0.361 0.324 0.307 0.315  0.392   26.83
24)  PENTANE
          1.642 1.236 1.065 0.988 0.887 0.890 0.897 0.874 0.848 0.861  1.019   24.53
25)  IODOMETHANE
          3.028 3.099 3.178 3.075 3.112 3.051 3.062 2.974 2.936 2.953  3.047    2.50
26)  1,1-DICHLOROETHYLENE
          1.447 1.169 1.069 1.090 1.017 0.995 0.996 0.975 0.978 0.990  1.073   13.53
27)  CARBON DISULFIDE
          2.997 3.014 2.977 2.890 2.819 2.764 2.735 2.653 2.618 2.638  2.810    5.44
28)  ETHANOL
                          0.410 0.368 0.360 0.325 0.282 0.280 0.274  0.329   16.02
29)  BROMOETHENE
          1.144 1.045 1.084 1.077 1.054 1.046 1.003 0.925 0.895 0.887  1.016    8.53
30)  ACRYLONITRILE
          0.731 0.728 0.766 0.659 0.613 0.615 0.631 0.630 0.623 0.643  0.664    8.45
31)  METHYLENE CHLORIDE
          1.452 1.200 1.182 0.923 0.907 0.882 0.885 0.862 0.863 0.878  1.003   20.24
32)  3-CHLOROPROPENE
          0.592 0.509 0.507 0.503 0.454 0.454 0.455 0.447 0.449 0.461  0.483    9.46
33)  FREON 113
          1.817 1.755 1.790 1.795 1.801 1.780 1.806 1.784 1.751 1.767  1.785    1.22
34)  TRANS-1,2-DICHLOROETHYLENE
          1.406 1.205 1.180 1.132 1.061 1.031 1.048 1.050 1.047 1.085  1.125   10.31
35)  TERTIARY BUTYL ALCOHOL
          2.011 1.926 2.111 2.081 2.179 2.134 2.097 1.869 1.847 1.796  2.005    6.76
36)  METHYL TERTIARY BUTYL ETHER
          3.856 3.026 2.904 2.828 2.710 2.672 2.659 2.576 2.512 2.562  2.830   13.94
37)  TETRAHYDROFURAN
                0.289 0.323 0.368 0.410 0.414 0.422 0.416 0.417 0.434  0.388   13.03
38)  HEXANE
          1.915 1.826 1.847 1.513 1.521 1.530 1.570 1.453 1.436 1.353  1.597   12.17
39)  VINYL ACETATE
                    0.067 0.100 0.168 0.173 0.192 0.191 0.196 0.204  0.161   31.11
40)  1,1-DICHLOROETHANE
          2.633 2.495 2.189 2.043 1.949 1.897 1.894 1.857 1.819 1.859  2.063   13.90
41)  METHYL ETHYL KETONE
                0.183 0.275 0.353 0.436 0.436 0.443 0.444 0.443 0.463  0.386   25.10
42)  cis-1,2-DICHLOROETHYLENE
          1.936 1.350 1.202 1.161 1.089 1.079 1.109 1.087 1.109 1.135  1.226   21.40
43)  DIISOPROPYL ETHER
          0.264 0.354 0.387 0.430 0.466 0.474 0.486 0.457 0.450 0.431  0.420   16.24
44)  ETHYL ACETATE
                0.083 0.229 0.295 0.349 0.343 0.350 0.339 0.335 0.333  0.295   29.95
45)  METHYL ACRYLATE
          0.432 1.287 1.422 1.650 1.890 1.915 1.940 1.815 1.761 1.699  1.581   28.86
46)  CHLOROFORM
          2.352 2.269 2.286 2.272 2.286 2.248 2.196 2.129 2.087 2.110  2.223    3.98
47)  2,4-DIMETHYLPENTANE
          2.053 1.842 1.846 1.806 1.778 1.772 1.798 1.731 1.733 1.710  1.807    5.41
48)  1,1,1-TRICHLOROETHANE
          2.325 2.281 2.406 2.366 2.372 2.352 2.356 2.258 2.249 2.226  2.319    2.65
49)  CARBON TETRACHLORIDE
          2.444 2.411 2.530 2.547 2.639 2.617 2.629 2.495 2.438 2.439  2.519    3.44
50)  1,2-DICHLOROETHANE
          1.533 1.473 1.599 1.594 1.593 1.588 1.592 1.515 1.471 1.491  1.545    3.50

51) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
52)  BENZENE
          0.696 0.655 0.643 0.656 0.654 0.658 0.683 0.675 0.693 0.687  0.670    2.84
53)  CYCLOHEXANE
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          0.273 0.253 0.260 0.267 0.265 0.261 0.271 0.269 0.280 0.278  0.268    3.20
54)  2,3-DIMETHYLPENTANE
          0.129 0.129 0.130 0.128 0.130 0.135 0.137 0.144 0.146 0.145  0.135    5.39
55)  TRICHLOROETHYLENE
          0.328 0.325 0.320 0.336 0.341 0.346 0.363 0.354 0.359 0.342  0.341    4.26
56)  1,2-DICHLOROPROPANE
          0.438 0.404 0.281 0.300 0.278 0.277 0.289 0.285 0.283 0.275  0.311   18.96
57)  DIBROMOMETHANE
          0.424 0.377 0.366 0.351 0.361 0.367 0.389 0.393 0.396 0.391  0.381    5.63
58)  ETHYL ACRYLATE
                      0.253 0.395 0.528 0.532 0.558 0.543 0.544 0.537  0.486   22.14
59)  BROMODICHLOROMETHANE
          0.553 0.553 0.574 0.575 0.604 0.609 0.628 0.607 0.618 0.597  0.592    4.47
60)  2,2,4-TRIMETHYLPENTANE
          1.172 1.070 1.076 1.110 1.083 1.092 1.093 1.008 0.985 0.912  1.060    6.91
61)  1,4-DIOXANE
          0.119 0.163 0.166 0.153 0.156 0.158 0.161 0.149 0.155 0.148  0.153    8.55
62)  HEPTANE
          0.486 0.429 0.412 0.394 0.359 0.364 0.366 0.350 0.352 0.343  0.385   11.77
63)  METHYL METHACRYLATE
                0.165 0.191 0.210 0.220 0.230 0.237 0.235 0.237 0.240  0.218   11.74
64)  METHYL ISOBUTYL KETONE
                0.094 0.143 0.177 0.216 0.220 0.232 0.229 0.234 0.233  0.198   25.14
65)  cis-1,3-DICHLOROPROPENE
          0.549 0.472 0.454 0.444 0.448 0.457 0.480 0.484 0.488 0.488  0.477    6.41
66)  TOLUENE
          0.453 0.460 0.472 0.473 0.501 0.504 0.534 0.536 0.536 0.539  0.501    6.86
67)  1,3-DICHLOROPROPANE
          0.388 0.399 0.412 0.403 0.408 0.405 0.424 0.412 0.418 0.413  0.408    2.50
68)  trans-1,3-DICHLOROPROPENE
          0.532 0.455 0.440 0.408 0.413 0.432 0.450 0.446 0.464 0.458  0.450    7.61
69)  1,1,2-TRICHLOROETHANE
          0.222 0.260 0.256 0.259 0.273 0.275 0.289 0.291 0.298 0.295  0.272    8.64

70) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
71)  2-HEXANONE
                    0.408 0.431 0.614 0.614 0.604 0.521 0.508 0.486  0.523   15.56
72)  ETHYL METHACRYLATE
                0.516 0.665 0.708 0.800 0.801 0.777 0.665 0.658 0.627  0.691   13.43
73)  TETRACHLOROETHYLENE
          0.676 0.720 0.732 0.733 0.739 0.718 0.701 0.620 0.602 0.581  0.682    8.74
74)  DIBROMOCHLOROMETHANE
          1.151 1.237 1.210 1.236 1.308 1.287 1.240 1.073 1.045 0.990  1.178    9.18
75)  1,2-DIBROMOETHANE
          0.796 0.917 0.967 0.994 1.020 0.988 0.966 0.866 0.842 0.809  0.916    8.99
76)  OCTANE
          1.367 1.023 1.031 0.997 0.998 0.951 0.922 0.779 0.739 0.693  0.950   20.17
77)  1,1,1,2-TETRACHLOROETHANE
          0.759 0.752 0.771 0.778 0.809 0.810 0.790 0.715 0.681 0.635  0.750    7.58
78)  CHLOROBENZENE
          1.396 1.346 1.325 1.345 1.310 1.304 1.267 1.132 1.076 0.996  1.250   10.70
79)  ETHYLBENZENE
          2.081 2.086 2.090 2.062 2.054 2.026 1.959 1.699 1.615 1.496  1.917   11.72
80)  m,p-XYLENE
          0.737 0.778 0.808 0.808 0.831 0.813 0.805 0.692 0.665 0.617  0.755    9.80
81)  o-XYLENE
          0.690 0.721 0.758 0.763 0.789 0.776 0.769 0.649 0.607 0.548  0.707   11.55
82)  STYRENE
          0.842 1.090 1.135 1.188 1.219 1.241 1.200 1.083 1.051 0.991  1.104   11.06
83)  NONANE
```

```
           1.263 1.143 1.098 1.070 1.015 0.984 0.936 0.758 0.711 0.630  0.961   21.20
 84)  BROMOFORM
           0.975 1.099 1.138 1.163 1.350 1.334 1.294 1.136 1.095 1.036  1.162   10.84
 85)  4-BROMOFLUOROBENZENE
           1.330 1.340 1.366 1.347 1.327 1.287 1.218 1.121 1.095 1.064  1.249    9.27
 86)  1,1,2,2-TETRACHLOROETHANE
           1.295 1.327 1.329 1.369 1.391 1.354 1.306 1.073 0.984 0.872  1.230   14.92
 87)  1,2,3-TRICHLOROPROPANE
           1.343 1.154 1.094 1.066 1.002 0.961 0.918 0.802 0.795 0.755  0.989   18.56
 88)  ISOPROPYLBENZENE
           2.240 2.330 2.361 2.367 2.405 2.373 2.298 1.911 1.764 1.610  2.166   13.45
 89)  BROMOBENZENE
           1.244 1.237 1.285 1.170 1.203 1.169 1.138 0.981 0.955 0.885  1.127   12.18
 90)  2-CHLOROTOLUENE
           0.536 0.627 0.631 0.629 0.644 0.645 0.636 0.568 0.559 0.524  0.600    7.92
 91)  n-PROPYLBENZENE
           0.507 0.562 0.604 0.628 0.636 0.654 0.635 0.554 0.528 0.499  0.581    9.98
 92)  4-ETHYLTOLUENE
           1.639 1.966 2.121 2.208 2.358 2.292 2.208 1.826 1.672 1.521  1.981   15.14
 93)  1,3,5-TRIMETHYLBENZENE
           2.134 2.114 2.126 2.019 2.006 1.939 1.861 1.528 1.413 1.278  1.842   17.25
 94)  ALPHA-METHYLSTYRENE
           0.664 0.815 0.913 0.949 1.039 1.056 1.037 0.912 0.886 0.802  0.907   13.61
 95)  tert-BUTYLBENZENE
                 0.385 0.387 0.399 0.430 0.437 0.419 0.333 0.301 0.273  0.374   15.59
 96)  1,2,4-TRIMETHYLBENZENE
           1.774 1.808 1.921 1.943 2.043 2.024 1.886 1.411 1.261 1.116  1.719   19.36
 97)  m-DICHLOROBENZENE
           1.071 1.275 1.361 1.467 1.581 1.575 1.484 1.226 1.105 0.994  1.314   16.21
 98)  BENZYL CHLORIDE
           1.079 1.369 1.537 1.720 2.062 2.046 1.914 1.531 1.366 1.212  1.584   21.69
 99)  p-DICHLOROBENZENE
           1.495 1.539 1.589 1.568 1.519 1.496 1.454 1.250 1.145 1.072  1.413   13.19
100)  sec-BUTYLBENZENE
           0.443 0.490 0.508 0.501 0.536 0.521 0.509 0.438 0.405 0.385  0.474   10.99
101)  1,2,3-TRIMETHYLBENZENE
           1.891 2.048 2.044 2.086 2.132 2.084 1.952 1.469 1.317 1.153  1.818   19.95
102)  p-ISOPROPYLTOLUENE
           0.478 0.540 0.594 0.609 0.642 0.635 0.609 0.471 0.423 0.368  0.537   17.98
103)  o-DICHLOROBENZENE
           1.222 1.365 1.402 1.444 1.466 1.430 1.407 1.207 1.165 1.072  1.318   10.51
104)  n-BUTYLBENZENE
           0.393 0.469 0.535 0.547 0.617 0.598 0.602 0.528 0.503 0.466  0.526   13.41
105)  HEXACHLOROETHANE
           0.945 0.925 0.962 0.982 1.025 1.011 0.994 0.812 0.739 0.669  0.906   13.59
106)  HEXACHLOROBUTADIENE
           1.290 1.305 1.341 1.386 1.445 1.419 1.355 1.012 0.902 0.796  1.225   18.99
107)  1,2,4-TRICHLOROBENZENE
           1.125 1.174 1.216 1.297 1.397 1.381 1.375 1.174 1.089 0.985  1.221   11.36
108)  NAPHTHALENE
           2.542 2.726 2.760 2.887 3.309 3.228 3.019 2.334 2.035 1.777  2.662   18.70

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
           6.493 5.469 7.159 6.304 5.822 5.911 6.041 5.816 5.676 5.781  6.047    8.12
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M5w2292.M         Mon Nov 10 09:45:04 2025
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Initial Calibration Verification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w59790.D Vial: 5
Acq On : 7 Nov 2025 12:25 pm Operator: benk
Sample : icv2292-10 Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	109	0.00	7.35
2	FREON 115	0.685	0.779	-13.7	130	0.00	3.37
3	FREON 152A	0.742	0.643	13.3	110	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	109	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.530	1.5	105	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	2.988	-4.4	109	0.00	3.55
7	PROPYLENE	0.768	0.702	8.6	111	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.153	7.1	103	0.00	3.65
9	FREON 114	2.616	2.753	-5.2	110	0.00	3.73
10	CHLOROMETHANE	0.314	0.302	3.8	110	0.00	3.67
11	VINYL CHLORIDE	0.969	0.972	-0.3	105	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	106	0.00	3.91
13	n-BUTANE	0.953	0.914	4.1	108	0.00	3.95
14	BROMOMETHANE	1.030	1.045	-1.5	109	0.00	4.11
15	CHLOROETHANE	0.473	0.420	11.2	106	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.125	-3.2	110	0.00	4.29
17	ACETONITRILE	0.544	0.544	0.0	108	0.00	4.48
18	ACROLEIN	0.309	0.333	-7.8	112	0.00	4.57
19	FREON 123	2.382	2.220	6.8	101	0.00	4.59
20	FREON 123A	1.368	1.202	12.1	94	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.504	-2.4	109	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.814	7.5	106	0.00	4.87
23	ACETONE	0.392	0.355	9.4	101	0.00	4.67
24	PENTANE	1.019	0.893	12.4	109	0.00	5.07
25	IODOMETHANE	3.047	3.023	0.8	108	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	0.965	10.1	105	0.00	5.32
27	CARBON DISULFIDE	2.810	2.525	10.1	99	0.00	5.67
28	ETHANOL	0.329	0.346	-5.2	104	0.00	4.31
29	BROMOETHENE	1.016	0.992	2.4	103	0.00	4.48
30	ACRYLONITRILE	0.664	0.612	7.8	108	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.881	12.2	108	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.449	7.0	108	0.00	5.52
33	FREON 113	1.785	1.773	0.7	108	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.001	11.0	105	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	2.333	-16.4	119	0.00	5.37
36	METHYL TERTIARY BUTYL ETH	2.830	2.647	6.5	108	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.451	-16.2	118	0.00	7.86
38	HEXANE	1.597	1.514	5.2	107	0.00	7.38
39	VINYL ACETATE	0.161	0.179	-11.2	112	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.900	7.9	109	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.431	-11.7	107	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.081	11.8	109	0.00	7.20

Initial Calibration Verification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

43		DIISOPROPYL ETHER	0.420	0.475	-13.1	109	0.00	7.39
44		ETHYL ACETATE	0.295	0.316	-7.1	100	0.00	7.42
45		METHYL ACRYLATE	1.581	1.896	-19.9	108	0.00	7.40
46		CHLOROFORM	2.223	2.242	-0.9	108	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.797	0.6	110	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.340	-0.9	108	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.531	-0.5	105	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.580	-2.3	108	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	107	0.00	9.21
52		BENZENE	0.670	0.673	-0.4	110	0.00	8.85
53		CYCLOHEXANE	0.268	0.265	1.1	109	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.135	0.0	107	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.344	-0.9	107	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.279	10.3	108	0.00	9.65
57		DIBROMOMETHANE	0.381	0.364	4.5	106	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.544	-11.9	110	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.612	-3.4	108	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.094	-3.2	107	0.00	9.91
61		1,4-DIOXANE	0.153	0.172	-12.4	117	0.00	9.90
62		HEPTANE	0.385	0.362	6.0	106	0.00	10.19
63		METHYL METHACRYLATE	0.218	0.234	-7.3	109	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.228	-15.2	111	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.428	10.3	100	0.00	10.75
66		TOLUENE	0.501	0.522	-4.2	111	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.415	-1.7	110	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.426	5.3	106	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.279	-2.6	109	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	0.00	13.54
71		2-HEXANONE	0.523	0.623	-19.1	109	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.789	-14.2	106	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.719	-5.4	107	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.278	-8.5	106	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	0.991	-8.2	108	0.00	12.40
76		OCTANE	0.950	0.982	-3.4	111	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.807	-7.6	107	0.00	13.56
78		CHLOROBENZENE	1.250	1.307	-4.6	108	0.00	13.58
79		ETHYLBENZENE	1.917	2.022	-5.5	107	0.00	13.99
80		m,p-XYLENE	0.755	0.820	-8.6	108	0.00	14.18
81		o-XYLENE	0.707	0.798	-12.9	110	0.00	14.68
82		STYRENE	1.104	1.193	-8.1	103	0.00	14.57
83		NONANE	0.961	0.979	-1.9	107	0.00	14.93
84		BROMOFORM	1.162	1.338	-15.1	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.271	-1.8	106	0.00	15.16
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.370	-11.4	109	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.972	1.7	108	0.00	14.82
88		ISOPROPYLBENZENE	2.166	2.352	-8.6	106	0.00	15.29
89		BROMOBENZENE	1.127	1.177	-4.4	108	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.648	-8.0	108	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.653	-12.4	107	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.350	-18.6	110	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.949	-5.8	108	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	0.970	-6.9	98	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.445	-19.0	109	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.034	-18.3	108	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.579	-20.2	108	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.924	-21.5	101	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.485	-5.1	106	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.527	-11.2	108	0.00	16.70

Initial Calibration Verification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

101		1,2,3-TRIMETHYLBENZENE	1.818	2.100	-15.5	108	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.630	-17.3	106	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.447	-9.8	109	0.00	16.98
104		n-BUTYLBENZENE	0.526	0.598	-13.7	107	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.898	0.9	95	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.374	-12.2	104	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.350	-10.6	105	0.00	18.89
108		NAPHTHALENE	2.662	3.063	-15.1	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	108	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.852	3.2	107	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Mon Nov 10 09:44:44 2025

6.9.2
6

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60001.D Vial: 2
Acq On : 24 Nov 2025 9:49 am Operator: benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	103	0.00	7.35
2	FREON 115	0.685	0.650	5.1	103	0.00	3.37
3	FREON 152A	0.742	0.612	17.5	99	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	103	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.657	-6.7	107	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	3.030	-5.9	104	0.00	3.55
7	PROPYLENE	0.768	0.623	18.9	93	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.297	0.9	104	0.00	3.65
9	FREON 114	2.616	2.883	-10.2	108	0.00	3.73
10	CHLOROMETHANE	0.314	0.281	10.5	97	0.00	3.67
11	VINYL CHLORIDE	0.969	0.994	-2.6	102	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	100	0.00	3.91
13	n-BUTANE	0.953	0.869	8.8	97	0.00	3.95
14	BROMOMETHANE	1.030	1.106	-7.4	109	0.00	4.11
15	CHLOROETHANE	0.473	0.431	8.9	103	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.152	-4.5	105	0.00	4.29
17	ACETONITRILE	0.544	0.522	4.0	98	0.00	4.48
18	ACROLEIN	0.309	0.307	0.6	97	0.00	4.57
19	FREON 123	2.382	2.544	-6.8	110	0.00	4.59
20	FREON 123A	1.368	1.505	-10.0	111	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.691	-10.1	111	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.675	14.6	92	0.00	4.87
23	ACETONE	0.392	0.386	1.5	103	0.00	4.67
24	PENTANE	1.019	0.807	20.8	93	0.00	5.07
25	IODOMETHANE	3.047	3.258	-6.9	110	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	1.032	3.8	106	0.00	5.32
27	CARBON DISULFIDE	2.810	2.762	1.7	102	0.00	5.67
28	ETHANOL	0.329	0.359	-9.1	102	0.00	4.32
29	BROMOETHENE	1.016	1.138	-12.0	112	0.00	4.48
30	ACRYLONITRILE	0.664	0.575	13.4	96	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.914	8.9	106	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.437	9.5	99	0.00	5.52
33	FREON 113	1.785	1.909	-6.9	110	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.066	5.2	106	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	1.976	1.4	95	0.00	5.38
36	METHYL TERTIARY BUTYL ETH	2.830	2.633	7.0	101	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.407	-4.9	101	0.00	7.86
38	HEXANE	1.597	1.427	10.6	96	0.00	7.38
39	VINYL ACETATE	0.161	0.169	-5.0	100	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.832	11.2	99	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.416	-7.8	98	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.103	10.0	105	0.00	7.19

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43		DIISOPROPYL ETHER	0.420	0.446	-6.2	97	0.00	7.38
44		ETHYL ACETATE	0.295	0.326	-10.5	98	0.00	7.42
45		METHYL ACRYLATE	1.581	1.788	-13.1	96	0.00	7.40
46		CHLOROFORM	2.223	2.301	-3.5	105	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.640	9.2	95	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.386	-2.9	104	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.656	-5.4	104	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.513	2.1	98	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00	9.21
52		BENZENE	0.670	0.663	1.0	102	0.00	8.85
53		CYCLOHEXANE	0.268	0.260	3.0	101	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.132	2.2	99	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.368	-7.9	108	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.268	13.8	98	0.00	9.65
57		DIBROMOMETHANE	0.381	0.400	-5.0	111	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.502	-3.3	96	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.625	-5.6	104	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.033	2.5	96	0.00	9.91
61		1,4-DIOXANE	0.153	0.162	-5.9	104	0.00	9.90
62		HEPTANE	0.385	0.323	16.1	90	0.00	10.18
63		METHYL METHACRYLATE	0.218	0.225	-3.2	99	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.209	-5.6	96	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.456	4.4	101	0.00	10.75
66		TOLUENE	0.501	0.512	-2.2	103	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.409	-0.2	103	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.432	4.0	101	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.285	-4.8	105	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00	13.53
71		2-HEXANONE	0.523	0.580	-10.9	95	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.782	-13.2	99	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.805	-18.0	113	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.365	-15.9	107	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	1.051	-14.7	107	0.00	12.39
76		OCTANE	0.950	0.880	7.4	93	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.847	-12.9	105	0.00	13.56
78		CHLOROBENZENE	1.250	1.365	-9.2	106	0.00	13.58
79		ETHYLBENZENE	1.917	2.077	-8.3	103	0.00	13.98
80		m,p-XYLENE	0.755	0.819	-8.5	102	0.00	14.18
81		o-XYLENE	0.707	0.793	-12.2	103	0.00	14.68
82		STYRENE	1.104	1.238	-12.1	101	0.00	14.57
83		NONANE	0.961	0.916	4.7	94	0.00	14.93
84		BROMOFORM	1.162	1.434	-23.4	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.269	-1.6	99	0.00	15.15
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.384	-12.5	103	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.971	1.8	102	0.00	14.81
88		ISOPROPYLBENZENE	2.166	2.356	-8.8	100	0.00	15.29
89		BROMOBENZENE	1.127	1.169	-3.7	101	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.664	-10.7	104	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.659	-13.4	102	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.339	-18.1	103	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.987	-7.9	103	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	1.038	-14.4	99	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.450	-20.3	104	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.087	-21.4	104	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.625	-23.7	104	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.930	-21.8	95	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.541	-9.1	104	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.516	-8.9	100	0.00	16.70

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.150	-18.3	104	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.657	-22.3	104	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.459	-10.7	103	0.00	16.97
104		n-BUTYLBENZENE	0.526	0.603	-14.6	102	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.831	8.3	83	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.512	-23.4	108	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.482	-21.4	108	0.00	18.88
108		NAPHTHALENE	2.662	3.274	-23.0	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	102	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.436	10.1	94	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Tue Nov 25 23:10:44 2025

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V5W2302-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60033.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...025\V5W2302\5w60033.D Vial: 4
Acq On : 25 Nov 2025 11:25 am Operator: benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	105	0.00	7.35
2	FREON 115	0.685	0.666	2.8	107	0.00	3.37
3	FREON 152A	0.742	0.688	7.3	114	0.00	3.45
4	CHLORODIFLUOROMETHANE	0.310	0.340	-9.7	112	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.733	-11.6	115	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	3.248	-13.5	114	0.00	3.56
7	PROPYLENE	0.768	0.682	11.2	104	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.380	-2.7	110	0.00	3.65
9	FREON 114	2.616	2.856	-9.2	110	0.00	3.74
10	CHLOROMETHANE	0.314	0.285	9.2	100	0.00	3.67
11	VINYL CHLORIDE	0.969	1.017	-5.0	106	0.00	3.82
12	1,3-BUTADIENE	0.583	0.568	2.6	104	0.00	3.92
13	n-BUTANE	0.953	0.934	2.0	107	0.00	3.95
14	BROMOMETHANE	1.030	1.141	-10.8	115	0.00	4.11
15	CHLOROETHANE	0.473	0.460	2.7	112	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.285	-11.0	114	0.00	4.30
17	ACETONITRILE	0.544	0.532	2.2	102	0.00	4.49
18	ACROLEIN	0.309	0.336	-8.7	109	0.00	4.58
19	FREON 123	2.382	2.667	-12.0	117	0.00	4.60
20	FREON 123A	1.368	1.512	-10.5	114	0.00	4.64
21	TRICHLOROFLUOROMETHANE	2.445	2.842	-16.2	120	0.00	4.80
22	ISOPROPYL ALCOHOL	1.961	1.808	7.8	101	0.00	4.88
23	ACETONE	0.392	0.424	-8.2	116	0.00	4.67
24	PENTANE	1.019	0.884	13.2	104	0.00	5.08
25	IODOMETHANE	3.047	3.264	-7.1	112	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	1.061	1.1	112	0.00	5.32
27	CARBON DISULFIDE	2.810	2.975	-5.9	113	0.00	5.68
28	ETHANOL	0.329	0.380	-15.5	110	0.00	4.32
29	BROMOETHENE	1.016	1.138	-12.0	114	0.00	4.49
30	ACRYLONITRILE	0.664	0.625	5.9	106	0.00	5.05
31	METHYLENE CHLORIDE	1.003	0.967	3.6	115	0.00	5.43
32	3-CHLOROPROPENE	0.483	0.469	2.9	108	0.00	5.53
33	FREON 113	1.785	1.883	-5.5	111	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.104	1.9	112	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	2.081	-3.8	102	0.00	5.38
36	METHYL TERTIARY BUTYL ETH	2.830	2.702	4.5	106	0.00	6.48
37	TETRAHYDROFURAN	0.388	0.431	-11.1	109	0.00	7.86
38	HEXANE	1.597	1.528	4.3	104	0.00	7.38
39	VINYL ACETATE	0.161	0.180	-11.8	109	0.00	6.57
40	1,1-DICHLOROETHANE	2.063	1.970	4.5	109	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.452	-17.1	108	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.151	6.1	112	0.00	7.20

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V5W2302-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60033.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43		DIISOPROPYL ETHER	0.420	0.480	-14.3	106	0.00	7.39
44		ETHYL ACETATE	0.295	0.349	-18.3	106	0.00	7.42
45		METHYL ACRYLATE	1.581	1.903	-20.4	104	0.00	7.40
46		CHLOROFORM	2.223	2.354	-5.9	110	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.727	4.4	102	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.365	-2.0	105	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.590	-2.8	104	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.526	1.2	101	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	105	0.00	9.21
52		BENZENE	0.670	0.685	-2.2	110	0.00	8.85
53		CYCLOHEXANE	0.268	0.272	-1.5	110	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.136	-0.7	106	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.368	-7.9	112	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.287	7.7	109	0.00	9.65
57		DIBROMOMETHANE	0.381	0.381	0.0	109	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.522	-7.4	103	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.635	-7.3	110	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.090	-2.8	105	0.00	9.91
61		1,4-DIOXANE	0.153	0.165	-7.8	110	0.00	9.90
62		HEPTANE	0.385	0.332	13.8	96	0.00	10.18
63		METHYL METHACRYLATE	0.218	0.229	-5.0	105	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.219	-10.6	104	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.461	3.4	106	0.00	10.75
66		TOLUENE	0.501	0.519	-3.6	108	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.422	-3.4	110	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.431	4.2	105	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.290	-6.6	111	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	103	0.00	13.53
71		2-HEXANONE	0.523	0.606	-15.9	102	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.808	-16.9	104	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.773	-13.3	111	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.325	-12.5	106	0.00	12.14
75		1,2-DIBROMOETHANE	0.916	1.041	-13.6	109	0.00	12.39
76		OCTANE	0.950	0.904	4.8	98	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.835	-11.3	106	0.00	13.56
78		CHLOROBENZENE	1.250	1.364	-9.1	108	0.00	13.58
79		ETHYLBENZENE	1.917	2.110	-10.1	107	0.00	13.98
80		m,p-XYLENE	0.755	0.818	-8.3	104	0.00	14.18
81		o-XYLENE	0.707	0.807	-14.1	107	0.00	14.68
82		STYRENE	1.104	1.239	-12.2	103	0.00	14.57
83		NONANE	0.961	0.951	1.0	100	0.00	14.93
84		BROMOFORM	1.162	1.395	-20.1	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.239	0.8	99	0.00	15.15
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.451	-18.0	111	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	1.005	-1.6	108	0.00	14.81
88		ISOPROPYLBENZENE	2.166	2.393	-10.5	104	0.00	15.29
89		BROMOBENZENE	1.127	1.196	-6.1	106	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.654	-9.0	105	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.666	-14.6	105	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.348	-18.5	106	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.954	-6.1	104	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	1.042	-14.9	102	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.428	-14.4	101	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.048	-19.1	104	0.00	16.43
97		m-DICHLOROBENZENE	1.314	1.612	-22.7	106	0.00	16.57
98		BENZYL CHLORIDE	1.584	2.049	-29.4	103	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.566	-10.8	108	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.540	-13.9	107	0.00	16.70

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V5W2302-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60033.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.143	-17.9	106	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.641	-19.4	104	0.00	16.86
103		o-DICHLOROBENZENE	1.318	1.477	-12.1	107	0.00	16.97
104		n-BUTYLBENZENE	0.526	0.611	-16.2	105	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.972	-7.3	99	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.463	-19.4	106	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.458	-19.4	109	0.00	18.88
108		NAPHTHALENE	2.662	3.300	-24.0	106	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	104	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.907	2.3	104	0.00	5.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Thu Nov 27 00:39:19 2025

Initial Calibration Summary

Job Number: JE23793 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Response Factor Report MS7W

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Calibration Files
0.04=7w16576.D 0.10=7w16577.D 0.20=7w16583.D 0.5 =7w16584.D
5.0 =7w16589.D 10 =7w16590.D 20 =7w16591.D 40 =7w16592.D
50 =7w16593.D 60 =7w16594.D = =

Compound	0.04	0.10	0.20	0.5	5.0	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	1.203	1.393	1.114	1.143	1.254	1.290	1.096				1.213	8.81
3) FREON 152A	0.745	0.766	0.515	0.617	0.600	0.616	0.583	0.573	0.625	0.619	0.626	12.09
4) CHLORODIFLUOROMETHANE	0.262	0.310	0.227	0.298	0.278	0.280	0.263	0.256	0.274	0.268	0.272	8.44
5) CHLOROTRIFLUOROETHENE	1.236	1.313	1.228	1.323	1.328	1.374	1.287	1.267	1.368	1.350	1.307	3.96
6) DICHLORODIFLUOROMETHANE	2.430	2.605	2.232	2.464	2.458	2.507	2.286	2.240	2.393	2.333	2.395	5.06
7) PROPYLENE	1.071	0.884	0.802	0.773	0.770	0.792	0.740	0.724	0.781	0.764	0.810	12.49
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.209	2.330	2.069	2.243	2.205	2.234	2.046	1.940	2.046	1.984	2.131	6.08
9) FREON 114	2.502	2.559	2.224	2.545	2.563	2.616	2.427	2.335	2.486	2.428	2.469	4.82
10) CHLOROMETHANE	0.455	0.388	0.331	0.328	0.341	0.337	0.316	0.304	0.322	0.312	0.343	13.20
11) VINYL CHLORIDE	1.458	1.323	1.045	1.211	1.233	1.252	1.156	1.121	1.196	1.166	1.216	9.35
12) 1,3-BUTADIENE	1.219	1.115	0.851	0.966	0.948	0.970	0.888	0.854	0.905	0.890	0.961	12.39
13) N-BUTANE	2.037	1.684	1.681	1.625	1.658	1.513	1.438	1.522	1.470		1.625	11.08
14) BROMOMETHANE	1.198	1.035	0.868	0.913	0.937	0.952	0.882	0.849	0.907	0.888	0.943	11.02
15) CHLOROETHANE	0.861	0.707	0.614	0.656	0.639	0.662	0.623	0.586	0.634	0.618	0.660	11.78
16) DICHLOROFLUOROMETHANE	2.550	2.579	2.157	2.307	2.310	2.365	2.164	2.072	2.204	2.152	2.286	7.50
17) ACETONITRILE	1.721	1.525	1.208	1.108	1.011	1.040	0.948	0.902	0.961	0.935	1.136	24.30
18) ACROLEIN	0.687	0.560	0.578	0.522	0.542	0.495	0.474	0.507	0.493		0.540	11.98
19) FREON 123	2.414	2.455	2.175	2.383	2.349	2.423	2.225	2.120	2.271	2.217	2.303	5.06
20) FREON 123A	1.611	1.387	1.303	1.356	1.389	1.419	1.304	1.248	1.330	1.298	1.364	7.40
21) TRICHLOROFLUOROMETHANE	2.753	2.717	2.507	2.784	2.706	2.755	2.516	2.365	2.495	2.413	2.601	6.06
22) ISOPROPYL ALCOHOL	2.546	2.456	2.277	2.284	2.064	1.926	2.061	2.020			2.204	10.05
23) ACETONE												

Initial Calibration Summary

Job Number: JE23793 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
                    0.656 0.680 0.609 0.633 0.569 0.543 0.574 0.556  0.603    8.27
24)  PENTANE
          1.606 1.407 1.190 1.200 1.152 1.181 1.073 1.014 1.072 1.043  1.194   15.35
25)  IODOMETHANE
          2.438 2.580 2.265 2.470 2.464 2.527 2.313 2.208 2.364 2.301  2.393    5.06
26)  1,1-DICHLOROETHYLENE
          1.069 1.117 0.969 0.998 1.011 1.023 0.937 0.893 0.958 0.941  0.991    6.72
27)  CARBON DISULFIDE
          2.988 3.039 2.590 2.949 2.902 2.970 2.722 2.581 2.743 2.649  2.813    6.24
28)  ETHANOL
                    0.707 0.722 0.581 0.585 0.538 0.501 0.535 0.525  0.587   14.28
29)  BROMOETHENE
          1.011 1.016 0.878 0.948 0.967 0.995 0.915 0.878 0.942 0.919  0.947    5.32
30)  ACRYLONITRILE
                    0.902 0.945 0.863 0.877 0.802 0.767 0.822 0.800  0.847    7.05
31)  METHYLENE CHLORIDE
               1.365 0.950 1.004 0.951 0.971 0.878 0.845 0.906 0.879  0.972   16.03
32)  3-CHLOROPROPENE
          0.565 0.547 0.514 0.539 0.548 0.554 0.515 0.489 0.524 0.509  0.530    4.50
33)  FREON 113
          1.465 1.565 1.411 1.596 1.560 1.594 1.454 1.381 1.476 1.433  1.493    5.28
34)  TRANS-1,2-DICHLOROETHENE
          1.192 1.283 0.975 1.120 1.106 1.128 1.036 0.985 1.053 1.031  1.091    8.76
35)  TERTIARY BUTYL ALCOHOL
          3.327 3.620 2.504 2.744 2.758 2.788 2.506 2.337 2.506 2.448  2.754   14.99
36)  METHYL TERTIARY BUTYL ETHER
          3.411 3.505 2.859 3.151 3.124 3.202 2.945 2.821 3.037 2.976  3.103    7.24
37)  TETRAHYDROFURAN
          0.463 0.602 0.399 0.525 0.513 0.535 0.492 0.480 0.516 0.507  0.503   10.41
38)  HEXANE
          2.426 2.447 1.855 2.100 2.092 2.121 1.971 1.886 2.029 1.974  2.090    9.71
39)  VINYL ACETATE
          0.346 0.297 0.248 0.276 0.290 0.312 0.297 0.291 0.313 0.311  0.298    8.61
40)  1,1-DICHLOROETHANE
          2.208 2.250 1.966 2.188 2.166 2.223 2.038 1.955 2.090 2.006  2.109    5.30
41)  METHYL ETHYL KETONE
          0.680 0.718 0.505 0.543 0.558 0.573 0.528 0.509 0.548 0.540  0.570   12.52
42)  CIS-1,2-DICHLOROETHENE
          1.234 1.216 1.059 1.153 1.131 1.168 1.084 1.043 1.122 1.105  1.132    5.56
43)  DIISOPROPYL ETHER
          0.655 0.625 0.569 0.597 0.608 0.610 0.568 0.546 0.580 0.566  0.593    5.54
44)  ETHYL ACETATE
          0.424 0.389 0.362 0.383 0.409 0.431 0.405 0.389 0.414 0.401  0.401    5.13
45)  METHYL ACRYLATE
          2.886 2.714 2.279 2.520 2.550 2.627 2.441 2.344 2.498 2.434  2.529    7.05
46)  CHLOROFORM
          2.197 2.312 2.087 2.345 2.258 2.323 2.107 1.996 2.127 2.074  2.183    5.57
47)  2,4-DIMETHYLPENTANE
          2.514 2.532 2.162 2.399 2.371 2.421 2.242 2.159 2.317 2.276  2.339    5.64
48)  1,1,1-TRICHLOROETHANE
          2.385 2.439 2.098 2.353 2.370 2.418 2.235 2.144 2.305 2.254  2.300    5.01
49)  CARBON TETRACHLORIDE
          2.279 2.359 2.087 2.395 2.491 2.585 2.402 2.314 2.482 2.435  2.383    5.75
50)  1,2-DICHLOROETHANE
          1.529 1.771 1.601 1.817 1.788 1.824 1.680 1.592 1.704 1.661  1.697    6.03
51)  BENZENE
          3.752 3.819 3.173 3.365 3.315 3.400 3.154 3.029 3.266 3.210  3.348    7.61

52) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
53)  CYCLOHEXANE
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          0.289 0.316 0.271 0.301 0.297 0.307 0.287 0.273 0.293 0.292  0.293    4.78
54)  2,3-DIMETHYLPENTANE
          0.134 0.157 0.127 0.152 0.150 0.156 0.144 0.140 0.149 0.149  0.146    6.57
55)  TRICHLOROETHENE
          0.321 0.352 0.277 0.322 0.315 0.327 0.303 0.290 0.307 0.305  0.312    6.69
56)  1,2-DICHLOROPROPANE
          0.293 0.297 0.236 0.287 0.276 0.288 0.269 0.259 0.276 0.274  0.276    6.53
57)  DIBROMOMETHANE
          0.334 0.292 0.244 0.263 0.256 0.267 0.247 0.241 0.257 0.257  0.266   10.55
58)  ETHYL ACRYLATE
          0.633 0.638 0.568 0.598 0.626 0.654 0.614 0.590 0.627 0.622  0.617    4.11
59)  BROMODICHLOROMETHANE
          0.497 0.496 0.450 0.504 0.522 0.542 0.509 0.488 0.518 0.513  0.504    4.82
60)  2,2,4-TRIMETHYLPENTANE
          1.551 1.607 1.274 1.372 1.313 1.363 1.263 1.209 1.281 1.270  1.350    9.64
61)  1,4-DIOXANE
                      0.119 0.148 0.155 0.162 0.148 0.142 0.153 0.153  0.148    8.73
62)  HEPTANE
          0.521 0.485 0.419 0.457 0.443 0.456 0.421 0.404 0.428 0.424  0.446    7.95
63)  METHYL METHACRYLATE
          0.275 0.256 0.220 0.251 0.252 0.262 0.247 0.238 0.254 0.251  0.251    5.74
64)  METHYL ISOBUTYL KETONE
          0.327 0.358 0.222 0.242 0.257 0.269 0.250 0.240 0.255 0.253  0.267   15.78
65)  CIS-1,3-DICHLOROPROPENE
          0.386 0.412 0.377 0.409 0.433 0.458 0.431 0.422 0.450 0.449  0.423    6.41
66)  TOLUENE
          0.794 0.853 0.735 0.806 0.797 0.829 0.777 0.750 0.801 0.798  0.794    4.35
67)  1,3-DICHLOROPROPANE
          0.371 0.411 0.360 0.404 0.410 0.429 0.401 0.383 0.408 0.403  0.398    5.17
68)  TRANS-1,3-DICHLOROPROPENE
          0.306 0.358 0.314 0.361 0.397 0.425 0.407 0.399 0.426 0.426  0.382   11.78
69)  1,1,2-TRICHLOROETHANE
          0.177 0.235 0.215 0.239 0.234 0.246 0.229 0.221 0.235 0.232  0.226    8.60
70)  2-HEXANONE
          0.551 0.561 0.286 0.321 0.341 0.353 0.330 0.317 0.337 0.334  0.373   26.30
71)  ETHYL METHACRYLATE
          0.409 0.415 0.369 0.418 0.431 0.450 0.421 0.404 0.431 0.429  0.418    5.11
72)  TETRACHLOROETHENE
          0.284 0.301 0.266 0.297 0.292 0.305 0.287 0.277 0.295 0.292  0.290    4.03
73)  DIBROMOCHLOROMETHANE
          0.387 0.447 0.377 0.424 0.479 0.511 0.486 0.474 0.507 0.505  0.460   10.69
74)  1,2-DIBROMOETHANE
          0.390 0.428 0.370 0.416 0.422 0.438 0.407 0.391 0.418 0.414  0.409    4.99
75)  OCTANE
          0.655 0.631 0.559 0.596 0.602 0.624 0.580 0.556 0.587 0.582  0.597    5.33

76) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
77)  1,1,1,2-TETRACHLOROETHANE
          0.343 0.367 0.294 0.339 0.374 0.394 0.367 0.357 0.377 0.379  0.359    7.87
78)  CHLOROBENZENE
          0.675 0.708 0.637 0.693 0.700 0.721 0.670 0.650 0.686 0.692  0.683    3.74
79)  ETHYLBENZENE
          1.102 1.188 1.022 1.113 1.145 1.188 1.103 1.070 1.126 1.136  1.119    4.50
80)  M,P-XYLENE
          0.940 0.969 0.843 0.899 0.934 0.953 0.886 0.853 0.895 0.897  0.907    4.59
81)  O-XYLENE
          0.848 0.949 0.803 0.890 0.917 0.935 0.865 0.834 0.876 0.883  0.880    5.14
82)  STYRENE
          0.585 0.667 0.537 0.636 0.698 0.728 0.678 0.664 0.699 0.705  0.660    8.95
83)  NONANE
```

Initial Calibration Summary

Job Number: JE23793 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
           0.735 0.732 0.655 0.678 0.699 0.717 0.665 0.637 0.665 0.669  0.685    4.92
 84)  BROMOFORM
           0.327 0.379 0.342 0.378 0.440 0.475 0.457 0.452 0.483 0.489  0.422   14.30
 85)  1,1,2,2-TETRACHLOROETHANE
           0.585 0.632 0.595 0.635 0.663 0.680 0.629 0.606 0.638 0.642  0.630    4.61
 86)  1,2,3-TRICHLOROPROPANE
           0.459 0.490 0.452 0.513 0.520 0.536 0.491 0.474 0.500 0.506  0.494    5.38
 87)  4-BROMOFLUOROBENZENE
           0.795 0.797 0.788 0.782 0.814 0.814 0.811 0.819 0.805 0.827  0.805    1.77
 88)  ISOPROPYLBENZENE
           0.310 0.362 0.307 0.333 0.350 0.358 0.331 0.321 0.335 0.340  0.335    5.62
 89)  BROMOBENZENE
           0.635 0.709 0.582 0.638 0.665 0.677 0.629 0.608 0.638 0.645  0.643    5.48
 90)  2-CHLOROTOLUENE
           0.291 0.323 0.266 0.303 0.327 0.338 0.316 0.306 0.323 0.327  0.312    6.80
 91)  N-PROPYLBENZENE
           0.304 0.354 0.329 0.341 0.378 0.388 0.362 0.351 0.370 0.374  0.355    7.08
 92)  4-ETHYLTOLUENE
           1.225 1.328 1.167 1.286 1.380 1.406 1.322 1.291 1.361 1.375  1.314    5.66
 93)  1,3,5-TRIMETHYLBENZENE
           1.057 1.125 0.973 1.053 1.143 1.172 1.092 1.064 1.125 1.132  1.094    5.33
 94)  ALPHA-METHYLSTYRENE
           0.465 0.531 0.443 0.509 0.582 0.598 0.561 0.553 0.589 0.593  0.542   10.10
 95)  TERT-BUTYLBENZENE
           0.292 0.271 0.234 0.266 0.276 0.283 0.259 0.253 0.265 0.267  0.267    5.99
 96)  1,2,4-TRIMETHYLBENZENE
           0.993 1.060 0.975 1.056 1.151 1.185 1.098 1.068 1.127 1.130  1.084    6.19
 97)  BENZYL CHLORIDE
           0.665 0.680 0.609 0.685 0.934 1.021 0.987 1.003 1.077 1.097  0.876   21.94
 98)  M-DICHLOROBENZENE
           0.778 0.747 0.669 0.727 0.770 0.792 0.735 0.716 0.754 0.761  0.745    4.75
 99)  P-DICHLOROBENZENE
           0.732 0.753 0.673 0.715 0.761 0.780 0.725 0.704 0.746 0.752  0.734    4.23
100)  O-DICHLOROBENZENE
           0.638 0.739 0.634 0.684 0.718 0.733 0.678 0.665 0.706 0.715  0.691    5.41
101)  SEC-BUTYLBENZENE
           0.279 0.343 0.289 0.319 0.333 0.341 0.317 0.306 0.323 0.325  0.318    6.61
102)  1,2,3-TRIMETHYLBENZENE
           1.078 1.094 0.958 1.060 1.137 1.163 1.076 1.057 1.118 1.129  1.087    5.28
103)  P-ISOPROPYLTOLUENE
           0.330 0.354 0.319 0.351 0.372 0.383 0.354 0.342 0.361 0.363  0.353    5.38
104)  N-BUTYLBENZENE
           0.300 0.310 0.302 0.317 0.357 0.368 0.345 0.340 0.362 0.364  0.336    7.99
105)  HEXACHLOROETHANE
           0.381 0.371 0.330 0.367 0.438 0.457 0.435 0.435 0.462 0.468  0.415   11.60
106)  HEXACHLOROBUTADIENE
           0.478 0.495 0.442 0.464 0.483 0.503 0.482 0.495 0.533 0.542  0.491    6.07
107)  1,2,4-TRICHLOROBENZENE
           0.484 0.469 0.444 0.485 0.601 0.648 0.626 0.653 0.724 0.760  0.589   19.07
108)  NAPHTHALENE
           1.002 1.026 0.865 1.011 1.370 1.508 1.466 1.522 1.680 1.773  1.322   24.25

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
                      7.365 7.136 5.390 5.515 5.122 4.738 5.018 4.871  5.644   18.16
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M7W577.M          Fri Aug 08 16:10:30 2025
```

Initial Calibration Verification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-ICV577
Lab FileID: 7W16597.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\7w16597.D Vial: 5
Acq On : 7 Aug 2025 6:07 pm Operator: benk
Sample : icv577-10 Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	0.00	3.19
2	T	FREON 115	1.213	1.246	-2.7	95	0.00	1.58
3	T	FREON 152A	0.626	0.611	2.4	97	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.285	-4.8	100	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.329	-1.7	95	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.616	-9.2	102	0.00	1.65
7	T	PROPYLENE	0.810	0.788	2.7	97	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.153	-1.0	94	0.00	1.68
9	T	FREON 114	2.469	2.694	-9.1	101	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.350	-2.0	102	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.267	-4.2	99	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.982	-2.2	99	0.00	1.79
13	T	N-BUTANE	1.625	1.681	-3.4	99	0.00	1.80
14	T	BROMOMETHANE	0.943	0.998	-5.8	103	0.00	1.86
15	T	CHLOROETHANE	0.660	0.669	-1.4	99	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.479	-8.4	103	0.00	1.93
17	T	ACETONITRILE	1.136	1.096	3.5	103	0.00	2.00
18	T	ACROLEIN	0.540	0.545	-0.9	99	0.00	2.04
19	T	FREON 123	2.303	2.334	-1.3	94	0.00	2.05
20	T	FREON 123A	1.364	1.283	5.9	89	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.842	-9.3	101	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.550	-15.7	109	0.00	2.14
23	T	ACETONE	0.603	0.625	-3.6	97	0.00	2.07
24	T	PENTANE	1.194	1.175	1.6	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.479	-3.6	96	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	1.009	-1.8	97	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.756	2.0	91	0.00	2.46
28	T	ETHANOL	0.587	0.617	-5.1	103	0.00	1.93
29	T	BROMOETHENE	0.947	0.979	-3.4	96	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.867	-2.4	97	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.978	-0.6	99	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.547	-3.2	97	0.00	2.41
33	T	FREON 113	1.493	1.611	-7.9	99	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	1.105	-1.3	96	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	3.094	-12.3	109	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	3.270	-5.4	100	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.589	-17.1	108	0.00	3.47
38	T	HEXANE	2.090	2.121	-1.5	98	0.00	3.24
39	T	VINYL ACETATE	0.298	0.316	-6.0	99	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.238	-6.1	99	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.578	-1.4	99	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.188	-4.9	100	0.00	3.12

Initial Calibration Verification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-ICV577
Lab FileID: 7W16597.D

43	T	DIISOPROPYL ETHER	0.593	0.628	-5.9	101	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.405	-1.0	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.624	-3.8	98	0.00	3.24
46	T	CHLOROFORM	2.183	2.360	-8.1	100	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.482	-6.1	100	0.00	3.74
48	T	1,1,1-TRICHLOROETHANE	2.300	2.477	-7.7	100	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.593	-8.8	98	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.858	-9.5	100	0.00	3.66
51	t	BENZENE	3.348	3.478	-3.9	100	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.313	-6.8	100	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.159	-8.9	100	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.328	-5.1	99	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.290	-5.1	99	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.267	-0.4	98	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.656	-6.3	99	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.555	-10.1	101	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.381	-2.3	100	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.175	-18.2	106	0.00	5.02
62	T	HEPTANE	0.446	0.460	-3.1	99	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.270	-7.6	101	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.277	-3.7	101	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.423	0.0	91	0.00	5.94
66	T	TOLUENE	0.794	0.843	-6.2	100	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.426	-7.0	98	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.415	-8.6	96	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.247	-9.3	99	0.00	6.77
70	T	2-HEXANONE	0.373	0.368	1.3	103	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.451	-7.9	99	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.309	-6.6	99	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.523	-13.7	101	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.437	-6.8	98	0.00	8.00
75	T	OCTANE	0.597	0.635	-6.4	100	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.398	-10.9	99	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.728	-6.6	99	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.197	-7.0	99	0.00	10.92
80	t	M,P-XYLENE	0.907	0.962	-6.1	99	0.00	11.35
81	t	O-XYLENE	0.880	0.951	-8.1	100	0.00	12.28
82	T	STYRENE	0.660	0.702	-6.4	94	0.00	12.07
83	T	NONANE	0.685	0.720	-5.1	98	0.00	13.40
84	T	BROMOFORM	0.422	0.500	-18.5	103	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.683	-8.4	98	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.538	-8.9	98	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.816	-1.4	98	0.00	13.32
88	T	ISOPROPYLBENZENE	0.335	0.363	-8.4	99	0.00	13.79
89	T	BROMOBENZENE	0.643	0.682	-6.1	99	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.338	-8.3	98	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.388	-9.3	98	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.399	-6.5	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.162	-6.2	97	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.522	3.7	85	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.280	-4.9	97	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.161	-7.1	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.883	-0.8	85	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.774	-3.9	96	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.756	-3.0	95	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.724	-4.8	97	0.00	16.99

Initial Calibration Verification

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Sample: V7W577-ICV577
Lab FileID: 7W16597.D

101	T	SEC-BUTYLBENZENE	0.318	0.341	-7.2	98	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.159	-6.6	98	0.00	16.94
103	T	P-ISOPROPYLTOLUENE	0.353	0.382	-8.2	98	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.361	-7.4	96	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	88	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.473	3.7	92	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.619	-5.1	94	0.00	18.31
108	T	NAPHTHALENE	1.322	1.417	-7.2	92	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	98	0.00	3.19
110		TVHC as equiv Pentane	5.644	5.524	2.1	98	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Fri Aug 08 16:10:52 2025

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17473.D Vial: 2
Acq On : 26 Sep 2025 11:04 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	105	0.00	3.19
2	T	FREON 115	1.213	1.348	-11.1	110	0.00	1.58
3	T	FREON 152A	0.626	0.642	-2.6	109	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.271	0.4	102	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.425	-9.0	109	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.356	1.6	99	0.00	1.65
7	T	PROPYLENE	0.810	0.774	4.4	103	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.002	6.1	94	0.00	1.69
9	T	FREON 114	2.469	2.380	3.6	96	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.267	22.2	83	0.00	1.69
11	T	VINYL CHLORIDE	1.216	0.990	18.6	83	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.789	17.9	85	0.00	1.79
13	T	N-BUTANE	1.625	1.307	19.6	83	0.00	1.80
14	T	BROMOMETHANE	0.943	0.881	6.6	97	0.00	1.86
15	T	CHLOROETHANE	0.660	0.558	15.5	89	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.107	7.8	94	0.00	1.93
17	T	ACETONITRILE	1.136	0.823	27.6	83	0.00	2.00
18	T	ACROLEIN	0.540	0.421	22.0	82	0.00	2.04
19	T	FREON 123	2.303	2.179	5.4	95	0.00	2.05
20	T	FREON 123A	1.364	1.343	1.5	100	0.00	2.07
21	T	TRICHLOROFLUOROMETHANE	2.601	2.684	-3.2	102	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	1.930	12.4	89	0.00	2.14
23	T	ACETONE	0.603	0.508	15.8	84	0.00	2.07
24	T	PENTANE	1.194	0.971	18.7	86	0.00	2.24
25	T	IODOMETHANE	2.393	2.426	-1.4	101	0.00	2.31
26	T	1,1-DICHLOROETHYLENE	0.991	0.912	8.0	94	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.397	14.8	85	0.00	2.47
28	T	ETHANOL	0.587	0.528	10.1	95	0.00	1.94
29	T	BROMOETHENE	0.947	0.914	3.5	97	0.00	2.01
30	T	ACRYLONITRILE	0.847	0.728	14.0	87	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.847	12.9	92	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.448	15.5	85	0.00	2.41
33	T	FREON 113	1.493	1.560	-4.5	103	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.923	15.4	86	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.016	26.8	76	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.792	10.0	92	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.482	4.2	95	0.00	3.47
38	T	HEXANE	2.090	1.901	9.0	94	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	96	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.002	5.1	95	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.523	8.2	96	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.098	3.0	99	0.00	3.12

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.522	12.0	90	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.378	5.7	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.289	9.5	92	0.00	3.24
46	T	CHLOROFORM	2.183	2.158	1.1	98	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.161	7.6	94	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.281	0.8	99	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.508	-5.2	102	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.592	6.2	92	0.00	3.66
51	t	BENZENE	3.348	3.151	5.9	97	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	103	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.289	1.4	97	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.145	0.7	96	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.315	-1.0	99	0.00	5.02
56	T	1,2-DICHLOROPROPANE	0.276	0.263	4.7	94	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.320	-20.3	124	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.576	6.6	91	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.523	-3.8	99	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.242	8.0	94	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.149	-0.7	95	0.00	5.03
62	T	HEPTANE	0.446	0.408	8.5	92	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.241	4.0	95	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.235	12.0	90	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.419	0.9	94	0.00	5.94
66	T	TOLUENE	0.794	0.782	1.5	97	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.402	-1.0	96	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.381	0.3	92	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.231	-2.2	97	0.00	6.77
70	T	2-HEXANONE	0.373	0.308	17.4	90	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.403	3.6	92	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.348	-20.0	117	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.519	-12.8	105	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.417	-2.0	98	0.00	8.00
75	T	OCTANE	0.597	0.552	7.5	91	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	102	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.371	-3.3	96	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.688	-0.7	97	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.127	-0.7	97	0.00	10.92
80	t	M,P-XYLENE	0.907	0.908	-0.1	97	0.00	11.35
81	t	O-XYLENE	0.880	0.887	-0.8	97	0.00	12.28
82	T	STYRENE	0.660	0.689	-4.4	96	0.00	12.07
83	T	NONANE	0.685	0.636	7.2	90	0.00	13.40
84	T	BROMOFORM	0.422	0.614	-45.5#	132	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.627	0.5	94	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.496	-0.4	94	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.806	-0.1	101	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.334	0.3	95	0.00	13.78
89	T	BROMOBENZENE	0.643	0.623	3.1	94	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.322	-3.2	97	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.367	-3.4	96	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.345	-2.4	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.126	-2.9	98	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.560	-3.3	95	0.00	16.18
95	T	TERT-BUTYLBENZENE	0.267	0.251	6.0	90	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.121	-3.4	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.818	6.6	82	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.758	-1.7	98	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.743	-1.2	97	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.700	-1.3	97	0.00	16.99

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.304	4.4	91	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.099	-1.1	96	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.342	3.1	91	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.332	1.2	92	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.440	-6.0	98	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.799	-62.7#	162#	-0.01	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.817	-38.7#	129	0.00	18.31
108	T	NAPHTHALENE	1.322	1.545	-16.9	104	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	105	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.772	15.5	91	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Sep 29 17:09:51 2025

6.9.7

6

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17801.D Vial: 1
Acq On : 13 Oct 2025 11:18 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	121	0.00	3.19
2	T	FREON 115	1.213	1.274	-5.0	120	0.00	1.58
3	T	FREON 152A	0.626	0.645	-3.0	127	0.00	1.60
4	T	CHLORODIFLUOROMETHANE	0.272	0.278	-2.2	120	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.370	-4.8	121	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.379	0.7	115	0.00	1.64
7	T	PROPYLENE	0.810	0.764	5.7	117	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.069	2.9	112	0.00	1.68
9	T	FREON 114	2.469	2.336	5.4	108	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.270	21.3	97	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.018	16.3	98	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.790	17.8	99	0.00	1.78
13	T	N-BUTANE	1.625	1.323	18.6	97	0.00	1.80
14	T	BROMOMETHANE	0.943	0.867	8.1	110	0.00	1.86
15	T	CHLOROETHANE	0.660	0.566	14.2	103	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.179	4.7	112	0.00	1.93
17	T	ACETONITRILE	1.136	0.822	27.6	96	0.00	2.00
18	T	ACROLEIN	0.540	0.416	23.0	93	0.00	2.03
19	T	FREON 123	2.303	2.148	6.7	107	0.00	2.05
20	T	FREON 123A	1.364	1.338	1.9	114	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.670	-2.7	117	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.103	4.6	111	0.00	2.14
23	T	ACETONE	0.603	0.521	13.6	100	0.00	2.07
24	T	PENTANE	1.194	0.947	20.7	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.395	-0.1	115	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.920	7.2	109	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.401	14.6	98	0.00	2.46
28	T	ETHANOL	0.587	0.454	22.7	94	0.00	1.94
29	T	BROMOETHENE	0.947	0.905	4.4	110	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.718	15.2	99	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.841	13.5	105	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.452	14.7	99	0.00	2.41
33	T	FREON 113	1.493	1.561	-4.6	119	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.918	15.9	99	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.179	20.9	95	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.838	8.5	107	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.476	5.4	108	0.00	3.47
38	T	HEXANE	2.090	1.897	9.2	108	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	110	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	1.925	8.7	105	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.507	11.1	107	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.078	4.8	112	0.00	3.12

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.536	9.6	106	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.385	4.0	108	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.343	7.4	108	0.00	3.23
46	T	CHLOROFORM	2.183	2.141	1.9	112	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.186	6.5	109	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.290	0.4	115	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.499	-4.9	117	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.640	3.4	109	0.00	3.66
51	t	BENZENE	3.348	3.068	8.4	109	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	119	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.280	4.4	108	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.142	2.7	108	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.307	1.6	112	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.267	3.3	110	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.321	-20.7	143#	0.00	4.75
58	T	ETHYL ACRYLATE	0.617	0.588	4.7	107	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.515	-2.2	113	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.250	7.4	109	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.151	-2.0	111	0.00	5.03
62	T	HEPTANE	0.446	0.407	8.7	106	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.239	4.8	108	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.242	9.4	107	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.417	1.4	108	0.00	5.94
66	T	TOLUENE	0.794	0.769	3.1	110	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.390	2.0	108	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.387	-1.3	108	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.227	-0.4	110	0.00	6.77
70	T	2-HEXANONE	0.373	0.318	14.7	107	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.401	4.1	106	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.356	-22.8	138	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.515	-12.0	120	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.414	-1.2	112	0.00	8.00
75	T	OCTANE	0.597	0.550	7.9	105	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00	9.96
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.361	-0.6	111	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.661	3.2	111	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.091	2.5	111	0.00	10.92
80	t	M,P-XYLENE	0.907	0.883	2.6	112	0.00	11.35
81	t	O-XYLENE	0.880	0.862	2.0	111	0.00	12.27
82	T	STYRENE	0.660	0.663	-0.5	110	0.00	12.07
83	T	NONANE	0.685	0.617	9.9	104	0.00	13.40
84	T	BROMOFORM	0.422	0.611	-44.8#	155#	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.611	3.0	108	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.484	2.0	109	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.817	-1.5	121	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.323	3.6	109	0.00	13.79
89	T	BROMOBENZENE	0.643	0.604	6.1	107	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.309	1.0	110	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.352	0.8	109	0.00	15.13
92	T	4-ETHYLTOLUENE	1.314	1.312	0.2	113	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.087	0.6	112	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.540	0.4	109	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.237	11.2	101	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.091	-0.6	111	0.00	16.51
97	T	BENZYL CHLORIDE	0.876	0.828	5.5	98	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.733	1.6	112	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.718	2.2	111	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.682	1.3	112	0.00	16.99

Continuing Calibration Summary

Job Number: JE23793 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.294	7.5	104	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.068	1.7	111	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.328	7.1	103	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.317	5.7	104	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	108	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.775	-57.8#	186#	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.781	-32.6#	145#	-0.01	18.31
108	T	NAPHTHALENE	1.322	1.446	-9.4	116	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	121	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.664	17.4	102	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Oct 13 21:33:39 2025

Run Sequence Report

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2292	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2292-BFB	5W59768.D	11/06/25 21:59	n/a	BFB Tune
V5W2292-IC2292	5W59769.D	11/06/25 22:35	n/a	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25 23:11	n/a	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25 23:50	n/a	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25 03:41	n/a	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25 06:57	n/a	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	n/a	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25 08:12	n/a	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25 08:54	n/a	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25 09:38	n/a	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25 10:24	n/a	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25 12:25	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2301	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2301-BFB	5W60000.D	11/24/25 09:12	n/a	BFB Tune
V5W2301-CC2292	5W60001.D	11/24/25 09:49	n/a	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25 12:02	n/a	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25 12:39	n/a	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25 14:27	n/a	Method Blank
ZZZZZZ	5W60006.D	11/24/25 15:18	n/a	(unrelated sample)
JE23789-3	5W60007.D	11/24/25 15:56	n/a	(used for QC only; not part of job JE23793)
JE23789-3DUP	5W60008.D	11/24/25 16:33	n/a	Duplicate
ZZZZZZ	5W60009.D	11/24/25 17:15	n/a	(unrelated sample)
ZZZZZZ	5W60010.D	11/24/25 17:58	n/a	(unrelated sample)
ZZZZZZ	5W60011.D	11/24/25 18:41	n/a	(unrelated sample)
ZZZZZZ	5W60012.D	11/24/25 19:25	n/a	(unrelated sample)
ZZZZZZ	5W60013.D	11/24/25 20:08	n/a	(unrelated sample)
ZZZZZZ	5W60014.D	11/24/25 20:52	n/a	(unrelated sample)
JE23793-1	5W60015.D	11/24/25 21:35	n/a	SS-5
JE23793-2	5W60016.D	11/24/25 22:19	n/a	IA-5
JE23793-3	5W60017.D	11/24/25 23:02	n/a	SS-6
JE23793-4	5W60018.D	11/24/25 23:46	n/a	IA-6
JE23793-5	5W60019.D	11/25/25 00:29	n/a	DUP SS
JE23793-6	5W60020.D	11/25/25 01:14	n/a	DUP IA
ZZZZZZ	5W60021.D	11/25/25 01:58	n/a	(unrelated sample)
ZZZZZZ	5W60022.D	11/25/25 02:43	n/a	(unrelated sample)
ZZZZZZ	5W60023.D	11/25/25 03:27	n/a	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25 04:12	n/a	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25 05:54	n/a	(unrelated sample)
ZZZZZZ	5W60027.D	11/25/25 06:37	n/a	(unrelated sample)
JE23789-3	5W60028.D	11/25/25 07:20	n/a	(used for QC only; not part of job JE23793)
ZZZZZZ	5W60029.D	11/25/25 07:57	n/a	(unrelated sample)
ZZZZZZ	5W60030.D	11/25/25 08:34	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2302	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2302-BFB	5W60032.D	11/25/25 10:05	n/a	BFB Tune
V5W2302-CC2292	5W60033.D	11/25/25 11:25	n/a	Continuing cal 10
V5W2302-BS	5W60034.D	11/25/25 12:07	n/a	Blank Spike
V5W2302-BSD	5W60035.D	11/25/25 12:44	n/a	Blank Spike Duplicate
V5W2302-MB	5W60038.D	11/25/25 15:07	n/a	Method Blank
ZZZZZZ	5W60039.D	11/25/25 15:53	n/a	(unrelated sample)
JE23836-1	5W60040.D	11/25/25 16:35	n/a	(used for QC only; not part of job JE23793)
JE23836-1DUP	5W60041.D	11/25/25 17:18	n/a	Duplicate
ZZZZZZ	5W60042.D	11/25/25 17:54	n/a	(unrelated sample)
JE23793-1	5W60043.D	11/25/25 18:32	n/a	SS-5
JE23793-2	5W60044.D	11/25/25 19:09	n/a	IA-5
JE23793-4	5W60045.D	11/25/25 19:46	n/a	IA-6
JE23793-5	5W60046.D	11/25/25 20:23	n/a	DUP SS
JE23793-6	5W60047.D	11/25/25 20:59	n/a	DUP IA
JE23793-1	5W60048.D	11/25/25 21:36	n/a	SS-5
JE23793-4	5W60049.D	11/25/25 22:13	n/a	IA-6
JE23793-6	5W60050.D	11/25/25 22:50	n/a	DUP IA
ZZZZZZ	5W60051.D	11/25/25 23:27	n/a	(unrelated sample)
JE23793-6	5W60052.D	11/26/25 00:03	n/a	DUP IA
ZZZZZZ	5W60053.D	11/26/25 00:40	n/a	(unrelated sample)
ZZZZZZ	5W60054.D	11/26/25 01:16	n/a	(unrelated sample)
ZZZZZZ	5W60055.D	11/26/25 01:52	n/a	(unrelated sample)
ZZZZZZ	5W60056.D	11/26/25 02:28	n/a	(unrelated sample)
ZZZZZZ	5W60057.D	11/26/25 03:04	n/a	(unrelated sample)
ZZZZZZ	5W60058.D	11/26/25 03:40	n/a	(unrelated sample)
ZZZZZZ	5W60059.D	11/26/25 04:16	n/a	(unrelated sample)
ZZZZZZ	5W60060.D	11/26/25 04:52	n/a	(unrelated sample)
ZZZZZZ	5W60061.D	11/26/25 05:28	n/a	(unrelated sample)
ZZZZZZ	5W60062.D	11/26/25 06:04	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W577	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W577-BFB	7W16573.D	08/07/25 02:05	n/a	BFB Tune
V7W577-IC577	7W16576.D	08/07/25 04:00	n/a	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25 04:38	n/a	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25 08:36	n/a	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25 09:13	n/a	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25 12:29	n/a	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25 13:07	n/a	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25 13:47	n/a	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25 14:30	n/a	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25 15:15	n/a	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25 16:02	n/a	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25 18:07	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W613 **Method:** TO-15 **Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W613-BFB	7W17472.D	09/26/25 10:25	n/a	BFB Tune
V7W613-CC577	7W17473.D	09/26/25 11:04	n/a	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25 11:54	n/a	Blank Spike
V7W613-BSD	7W17475.D	09/26/25 12:32	n/a	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25 14:01	n/a	Method Blank
ZZZZZZ	7W17478.D	09/26/25 15:51	n/a	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25 16:43	n/a	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25 17:30	n/a	(unrelated sample)
JE19193-2	7W17481.D	09/26/25 18:21	n/a	(used for QC only; not part of job JE23793)
JE19193-2DUP	7W17482.D	09/26/25 19:09	n/a	Duplicate
V7W613-SCC	7W17483.D	09/26/25 19:55	n/a	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25 20:38	n/a	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25 21:22	n/a	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25 22:06	n/a	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25 22:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25 23:33	n/a	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25 00:13	n/a	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25 00:52	n/a	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25 01:31	n/a	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25 02:11	n/a	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25 02:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25 03:29	n/a	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25 04:08	n/a	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25 04:48	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JE23793
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W624	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W624-BFB	7W17800.D	10/13/25 10:41	n/a	BFB Tune
V7W624-CC577	7W17801.D	10/13/25 11:18	n/a	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25 12:00	n/a	Blank Spike
V7W624-BSD	7W17803.D	10/13/25 12:37	n/a	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25 14:03	n/a	Method Blank
ZZZZZZ	7W17806.D	10/13/25 15:24	n/a	(unrelated sample)
JE20702-1	7W17807.D	10/13/25 16:09	n/a	(used for QC only; not part of job JE23793)
JE20702-1DUP	7W17808.D	10/13/25 16:55	n/a	Duplicate
ZZZZZZ	7W17809.D	10/13/25 17:45	n/a	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25 18:38	n/a	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25 19:25	n/a	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25 20:14	n/a	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25 21:05	n/a	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25 21:58	n/a	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25 22:49	n/a	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25 23:42	n/a	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25 00:27	n/a	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25 01:14	n/a	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25 02:02	n/a	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25 02:51	n/a	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25 03:40	n/a	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25 04:19	n/a	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25 04:58	n/a	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25 05:38	n/a	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25 06:17	n/a	(unrelated sample)
ZZZZZZ	7W17826.D	10/14/25 06:55	n/a	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25 07:39	n/a	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25 08:23	n/a	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25 09:07	n/a	Summa Cleaning Certification

MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/28/25 18:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kanyav\V5W\
Data File : 5w60015.D
Acq On : 24 Nov 2025 9:35 pm
Operator : benk
Sample : je23793-1
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 28 18:21:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 14:00:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	474128	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2121035	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1035907	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	474128	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1393190	10.76	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 107.60%				
Target Compounds							Qvalue
3) FREON 152A	3.439	65	105149	2.9903	PPBV		99
4) CHLORODIFLUOROMETHANE	3.469	67	5793	0.3938	PPBV		81
6) DICHLORODIFLUOROMETHANE	3.543	85	71176	0.5246	PPBV		100
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	18980	0.1727	PPBV	#	65
10) CHLOROMETHANE	3.659	52	6137	0.4118	PPBV	#	84
12) 1,3-BUTADIENE	3.904	54	3990	0.1443	PPBV	#	3
13) n-BUTANE	3.941	43	272620	6.0330	PPBV		97
17) ACETONITRILE	4.479	41	4744	0.1838	PPBV		97
18) ACROLEIN	4.565	56	17536	1.1954	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.785	101	319772	2.7590	PPBV		100
22) ISOPROPYL ALCOHOL	4.877	45	1817224	19.5456	PPBV		97
23) ACETONE	4.650	58	3436279	184.7910	PPBV		90
24) PENTANE	5.066	42	56793	1.1758	PPBV		99
28) ETHANOL	4.326	45	4924775	316.1674	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	18433	0.3875	PPBV		93
34) TRANS-1,2-DICHLOROETHY...	6.235	96	5297	0.0993	PPBV		85
35) TERTIARY BUTYL ALCOHOL	5.397	59	232332	2.4438	PPBV		94
38) HEXANE	7.379	57	27560	0.3641	PPBV		97
39) VINYL ACETATE	6.559	86	6540	0.8543	PPBV	#	45
41) METHYL ETHYL KETONE	6.810	72	24904	1.3599	PPBV	#	86
44) ETHYL ACETATE	7.409	61	205503	14.6851	PPBV		93
46) CHLOROFORM	7.470	83	32180	0.3053	PPBV		98
52) BENZENE	8.853	78	68442	0.4817	PPBV		97
53) CYCLOHEXANE	9.098	84	6634	0.1169	PPBV		82
54) 2,3-DIMETHYLPENTANE	9.349	71	15086	0.5259	PPBV	#	80
55) TRICHLOROETHYLENE	9.887	95	226982	3.1357	PPBV		99
62) HEPTANE	10.156	43	507957	6.2126	PPBV	#	24
63) METHYL METHACRYLATE	10.107	69	108895	2.3514	PPBV	#	51
64) METHYL ISOBUTYL KETONE	10.847	58	4297	0.1025	PPBV	#	35
66) TOLUENE	11.722	92	85377	0.8038	PPBV		96
73) TETRACHLOROETHYLENE	12.872	164	113399	1.6048	PPBV		99
76) OCTANE	12.738	43	40014m	0.4066	PPBV		
79) ETHYLBENZENE	13.992	91	34348	0.1730	PPBV		98
80) m,p-XYLENE	14.169	106	43782	0.5595	PPBV		99
81) o-XYLENE	14.683	106	18438	0.2516	PPBV		96
83) NONANE	14.934	43	22971	0.2308	PPBV		83
93) 1,3,5-TRIMETHYLBENZENE	16.047	105	18222	0.0955	PPBV		90
97) m-DICHLOROBENZENE	16.586	146	35127	0.2581	PPBV		96
101) 1,2,3-TRIMETHYLBENZENE	16.855	105	18971	0.1008	PPBV		84
104) n-BUTYLBENZENE	17.259	134	7976	0.1464	PPBV	#	1

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

Quantitation Report (QT Reviewed)

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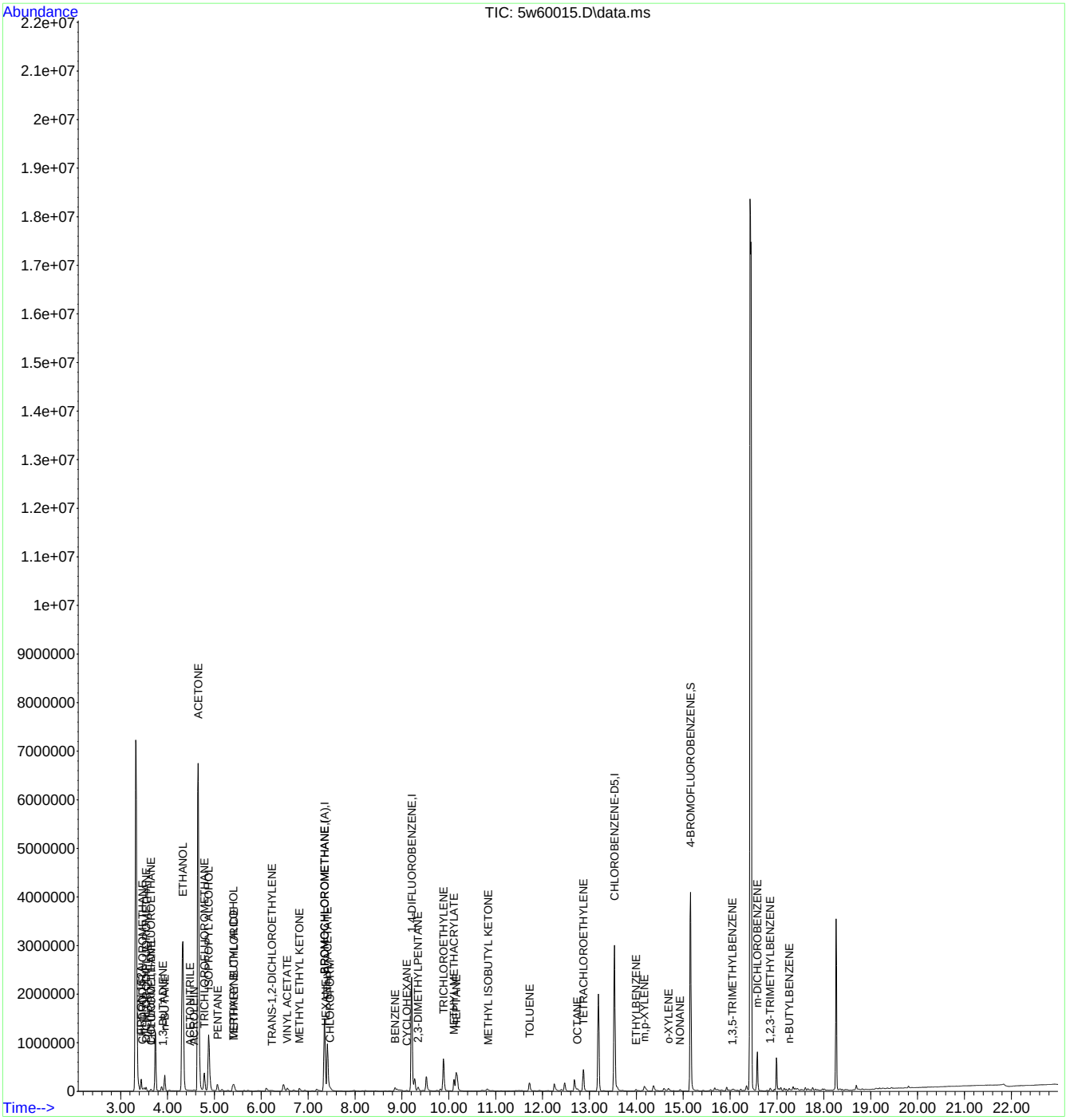
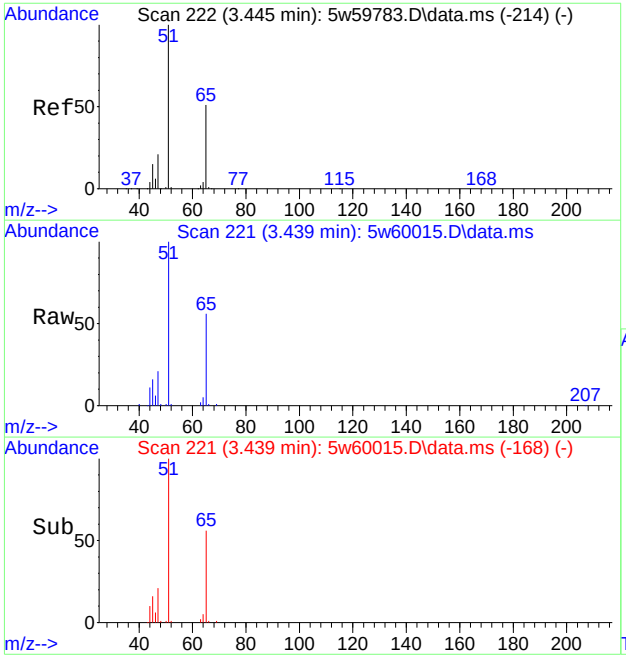
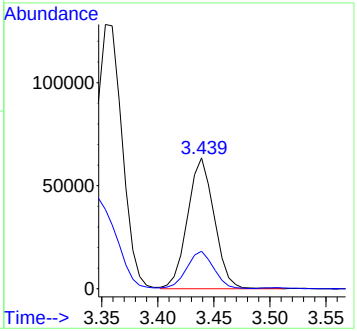


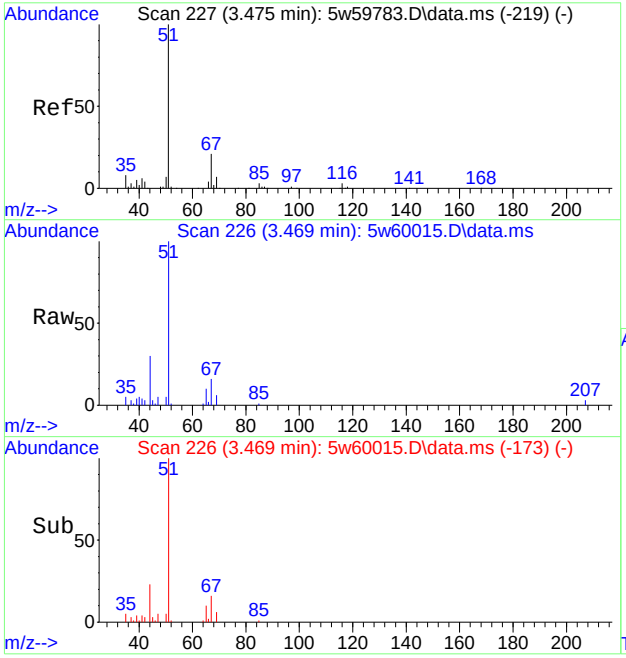


#3
FREON 152A
Concen: 2.99 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 65 Resp: 105149

Ion	Ratio	Lower	Upper
65	100		
45	29.4	0.0	60.0

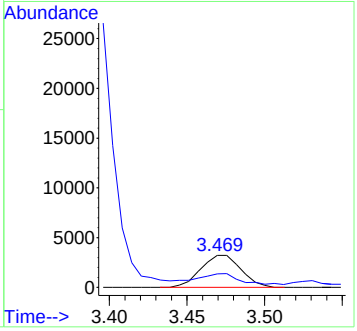


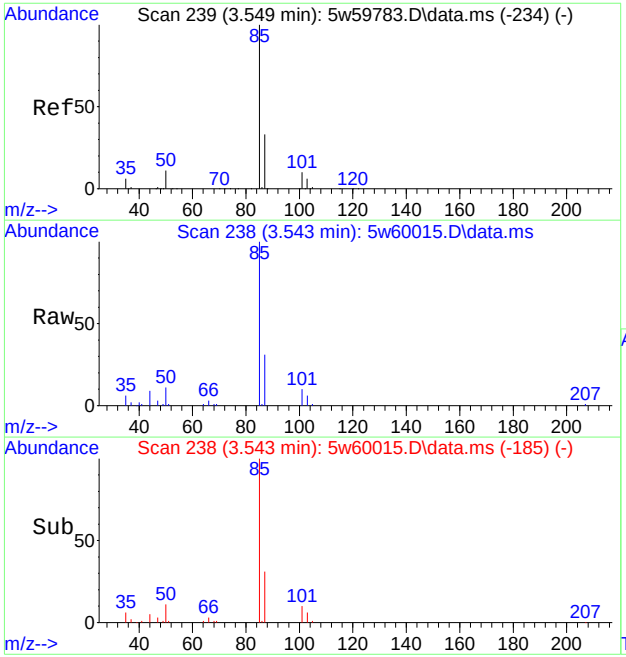


#4
CHLORODIFLUOROMETHANE
Concen: 0.39 PPBV
RT: 3.469 min Scan# 226
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 67 Resp: 5793

Ion	Ratio	Lower	Upper
67	100		
69	41.7	1.0	61.0

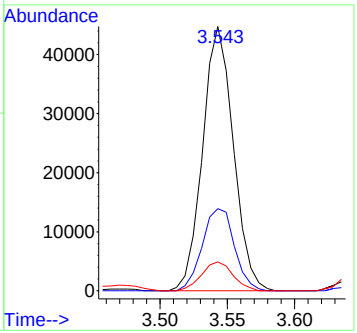


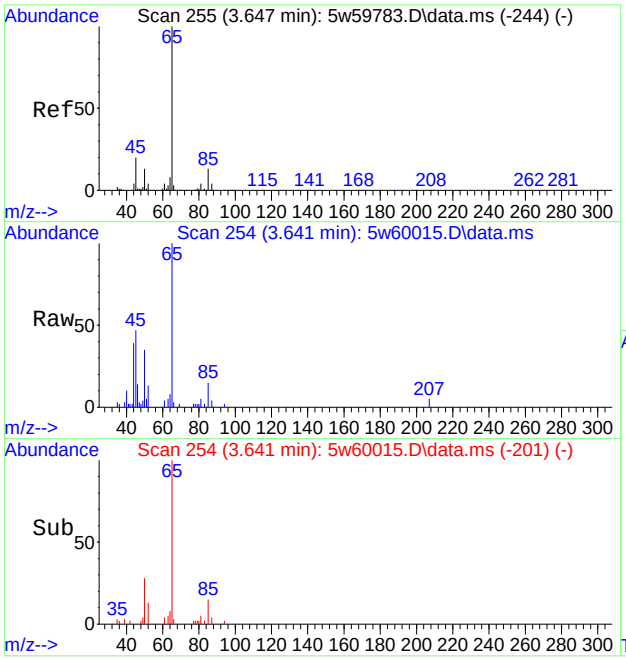


#6
DICHLORODIFLUOROMETHANE
Concen: 0.52 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 85 Resp: 71176

Ion	Ratio	Lower	Upper
85	100		
87	32.5	2.5	62.5
50	11.2	0.0	41.7

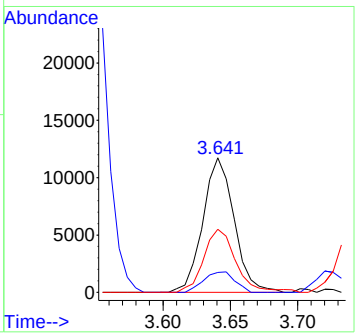


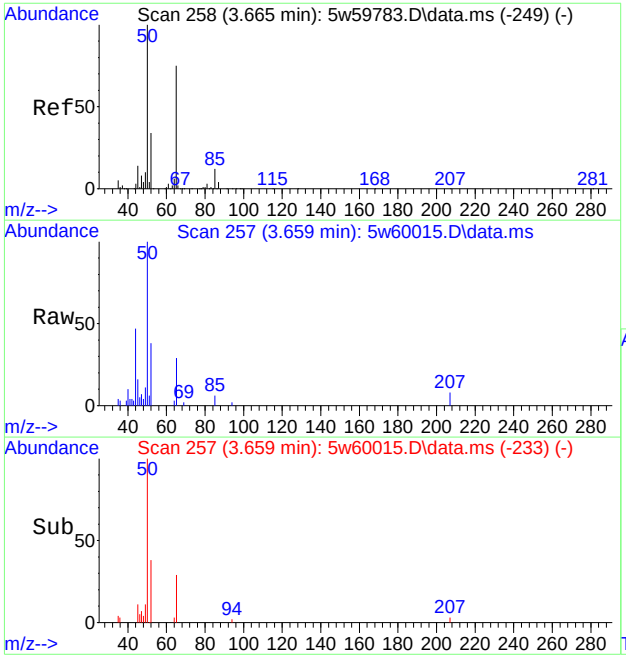


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.17 PPBV
RT: 3.641 min Scan# 254
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 65 Resp: 18980

Ion	Ratio	Lower	Upper
65	100		
85	15.2	11.5	21.3
45	48.4	14.0	26.0#

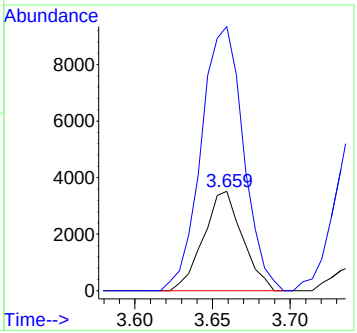


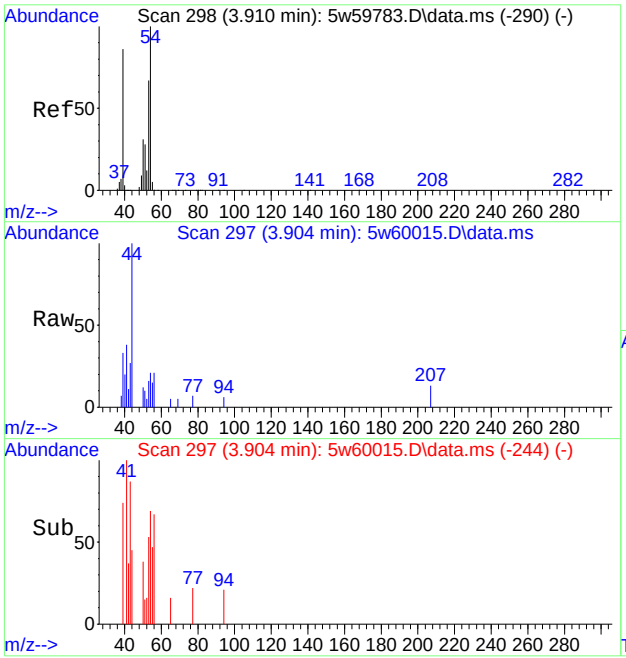


#10
CHLOROMETHANE
Concen: 0.41 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 52 Resp: 6137

Ion	Ratio	Lower	Upper
52	100		
50	265.9	267.9	327.9#

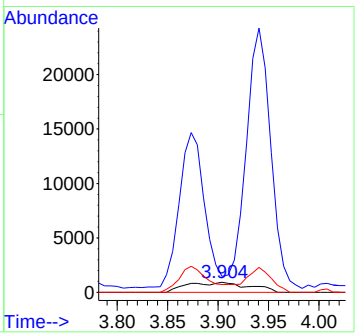


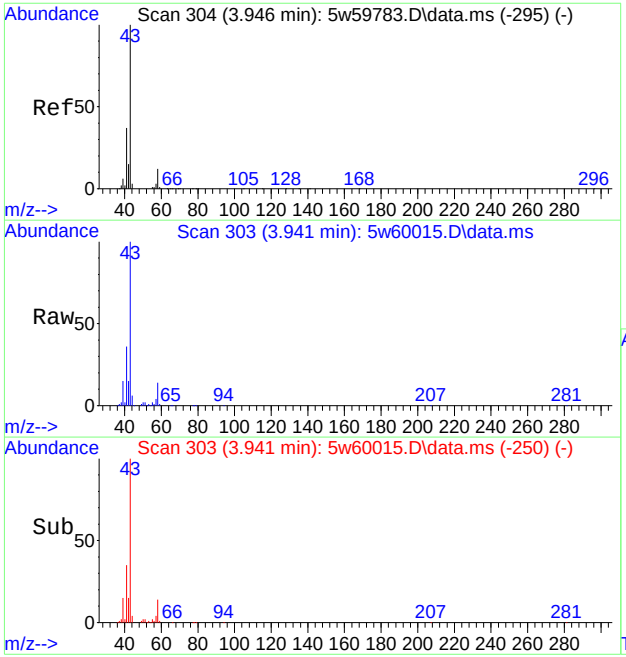


#12
1,3-BUTADIENE
Concen: 0.14 PPBV
RT: 3.904 min Scan# 297
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 54 Resp: 3990

Ion	Ratio	Lower	Upper
54	100		
39	0.0	82.0	142.0#
53	0.0	40.2	100.2#

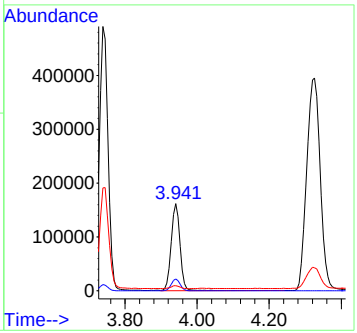


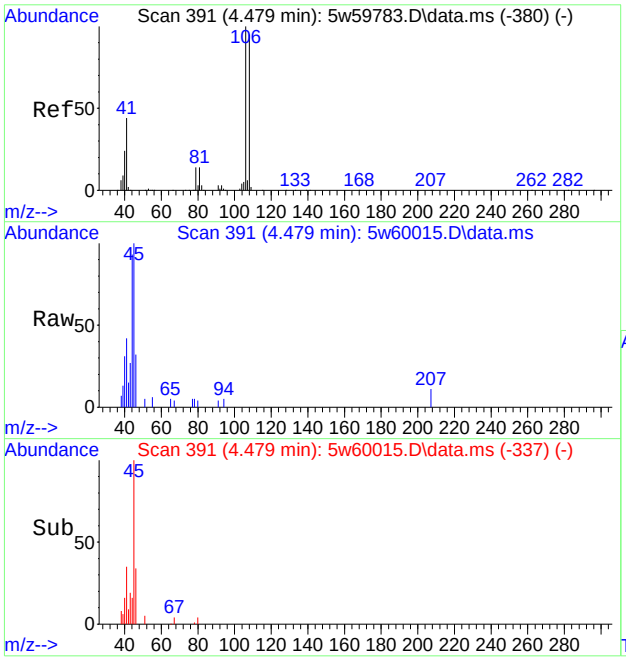


#13
n-BUTANE
Concen: 6.03 PPBV
RT: 3.941 min Scan# 303
Delta R.T. -0.005 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 43 Resp: 272620

Ion	Ratio	Lower	Upper
43	100		
58	13.6	0.0	42.6
44	3.8	0.0	34.9

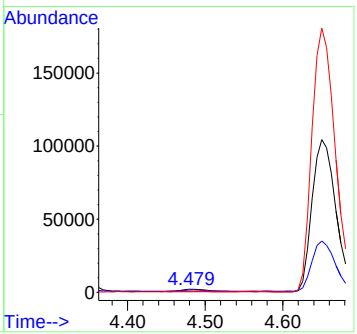


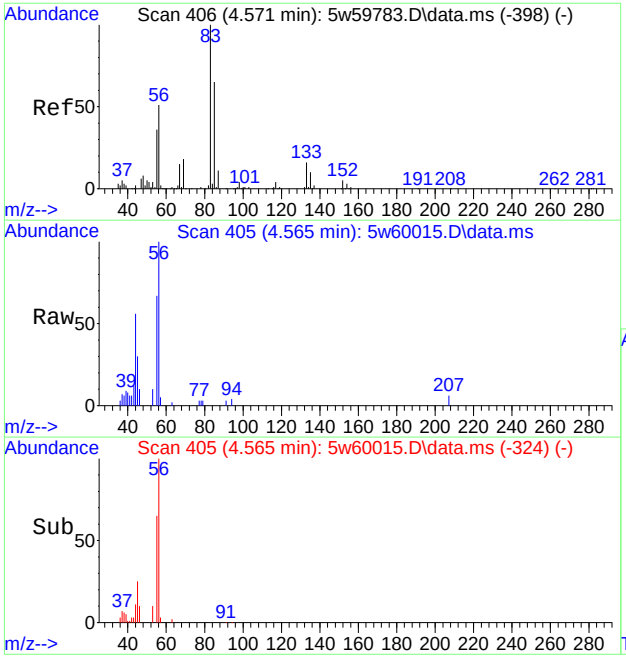


#17
ACETONITRILE
Concen: 0.18 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 41 Resp: 4744

Ion	Ratio	Lower	Upper
41	100		
40	52.8	37.9	70.5
39	16.4	13.4	24.8

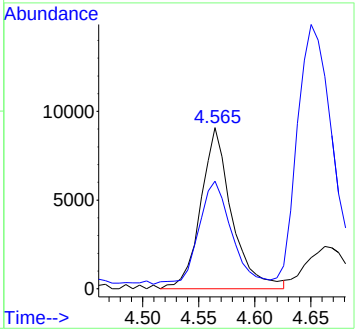


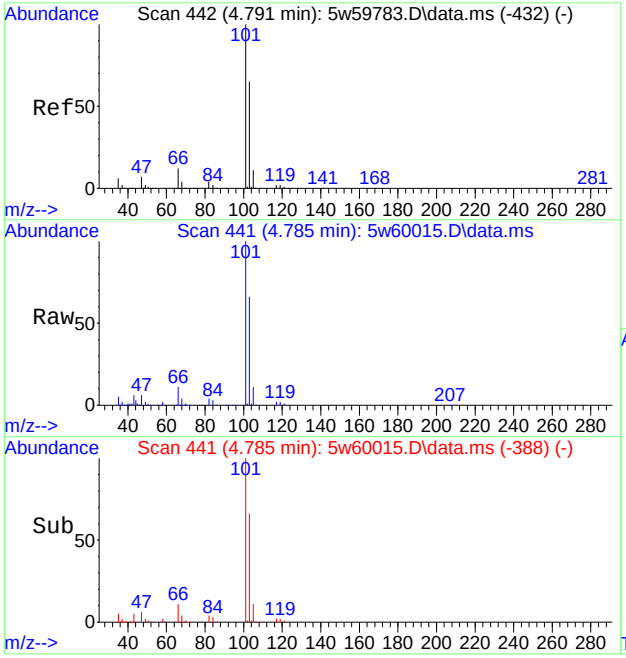


#18
ACROLEIN
Concen: 1.20 PPBV
RT: 4.565 min Scan# 405
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 56 Resp: 17536

Ion	Ratio	Lower	Upper
56	100		
55	67.0	46.6	86.6

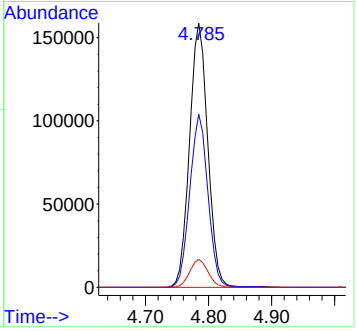


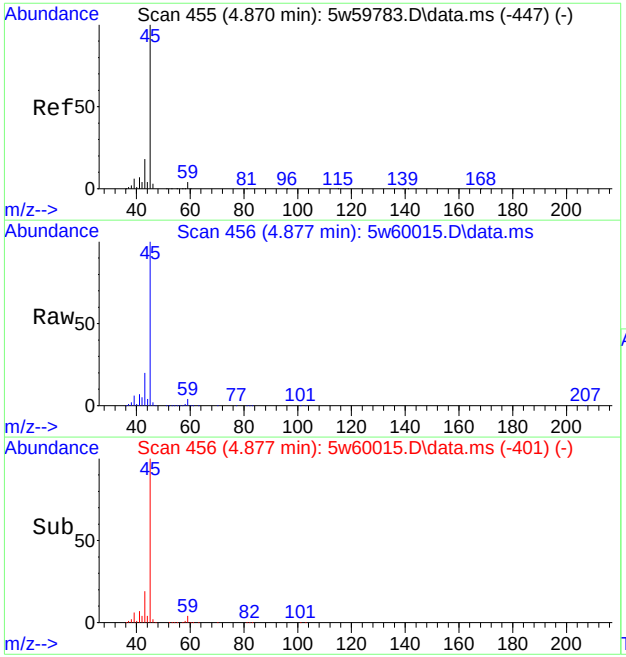


#21
TRICHLOROFLUOROMETHANE
Concen: 2.76 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion:101 Resp: 319772

Ion	Ratio	Lower	Upper
101	100		
103	65.2	35.0	95.0
105	10.7	0.0	40.7

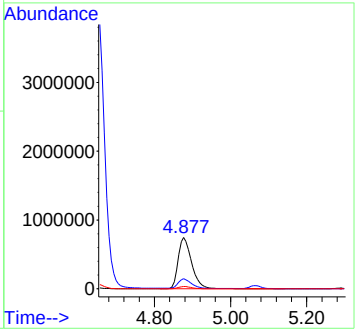


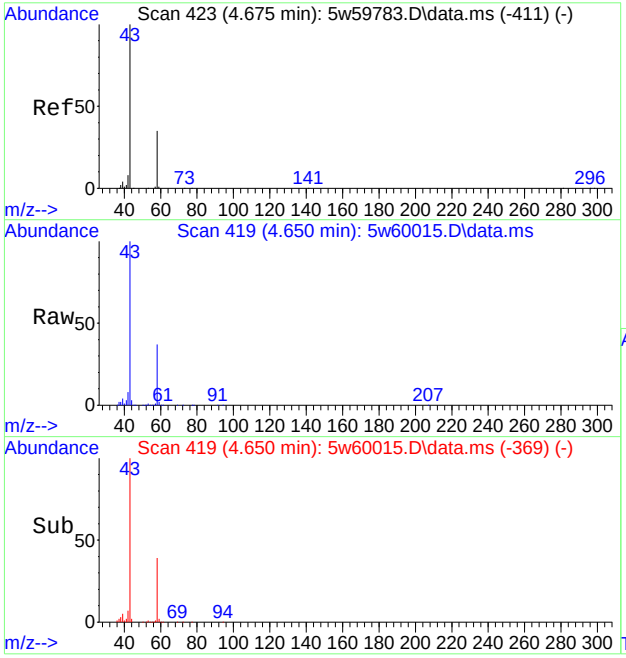


#22
ISOPROPYL ALCOHOL
Concen: 19.55 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.007 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 45 Resp: 1817224

Ion	Ratio	Lower	Upper
45	100		
43	19.5	0.0	47.8
59	4.4	0.0	34.1

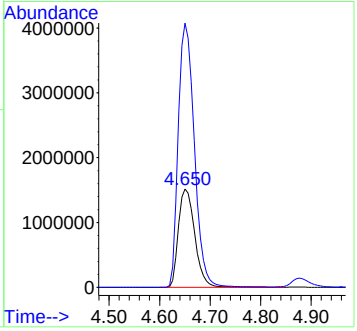


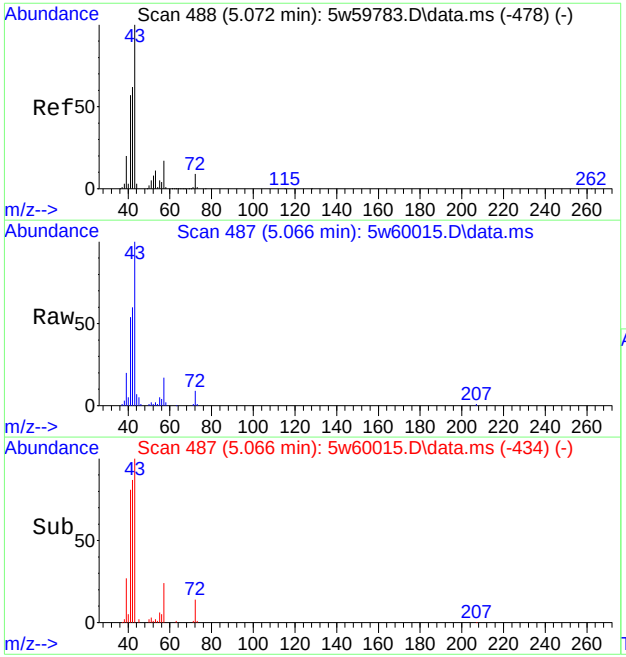


#23
ACETONE
Concen: 184.79 PPBV
RT: 4.650 min Scan# 419
Delta R.T. -0.025 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 58 Resp: 3436279

Ion	Ratio	Lower	Upper
58	100		
43	263.4	252.3	312.3

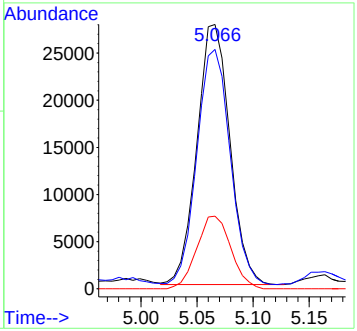


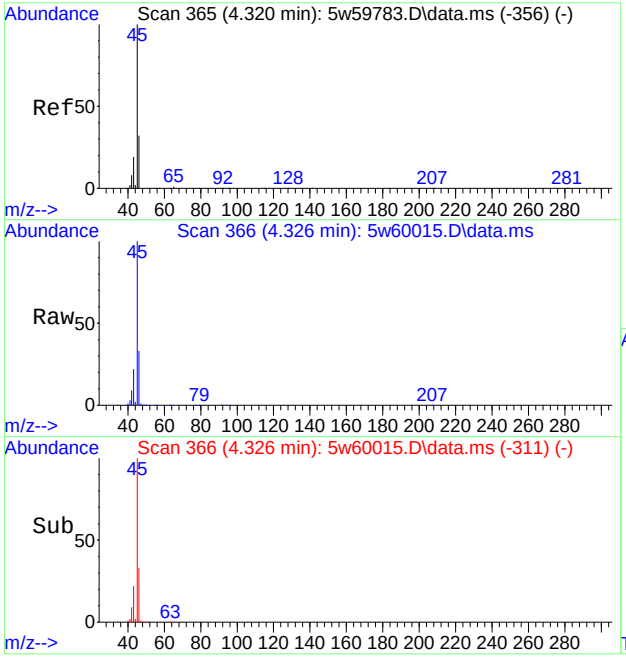


#24
PENTANE
Concen: 1.18 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 42 Resp: 56793

Ion	Ratio	Lower	Upper
42	100		
41	92.4	62.3	122.3
57	28.8	0.0	57.7

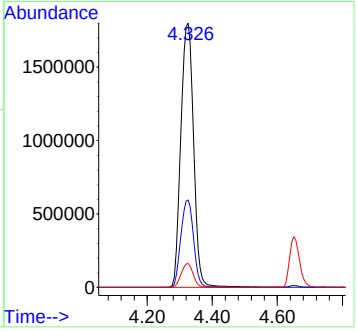


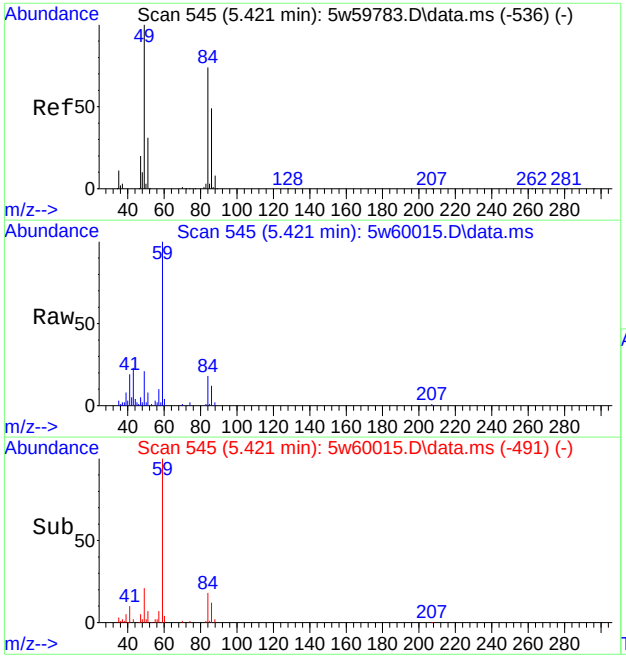


#28
ETHANOL
Concen: 316.17 PPBV
RT: 4.326 min Scan# 366
Delta R.T. 0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 45 Resp: 4924775

Ion	Ratio	Lower	Upper
45	100		
46	33.1	2.0	62.0
42	8.5	0.0	38.5

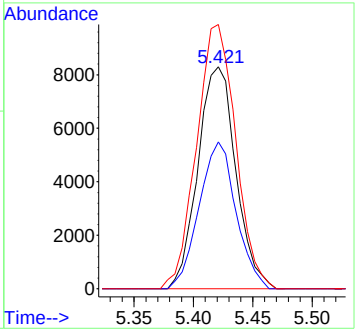


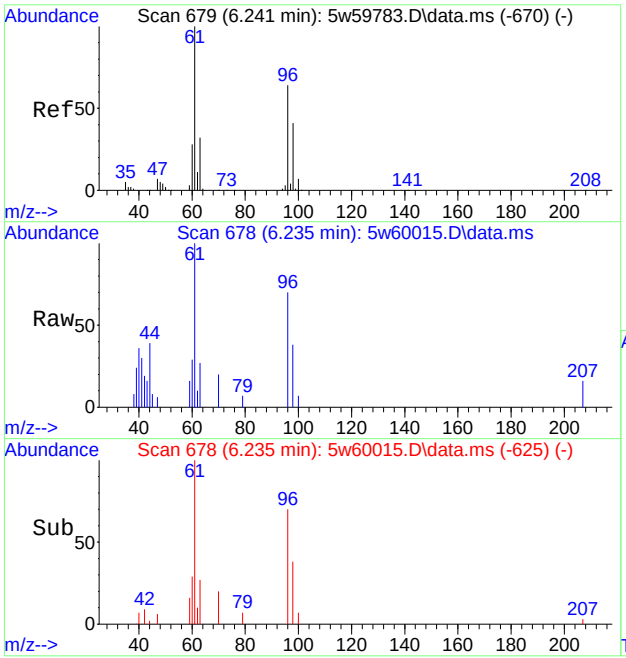


#31
METHYLENE CHLORIDE
Concen: 0.39 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 84 Resp: 18433

Ion	Ratio	Lower	Upper
84	100		
86	64.3	35.2	95.2
49	122.8	105.3	165.3

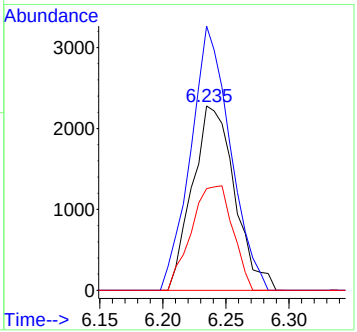


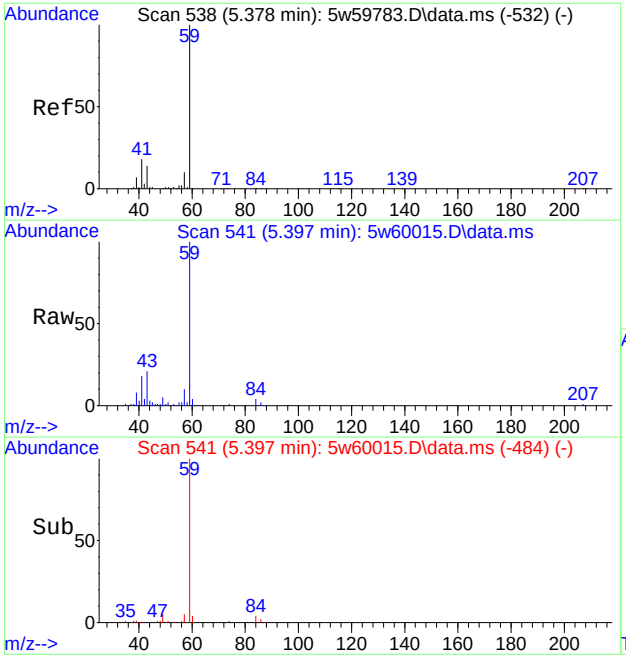


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.10 PPBV
RT: 6.235 min Scan# 678
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 96 Resp: 5297

Ion	Ratio	Lower	Upper
96	100		
61	134.5	126.4	186.4
98	55.5	34.1	94.1

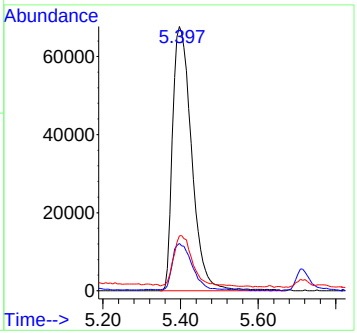


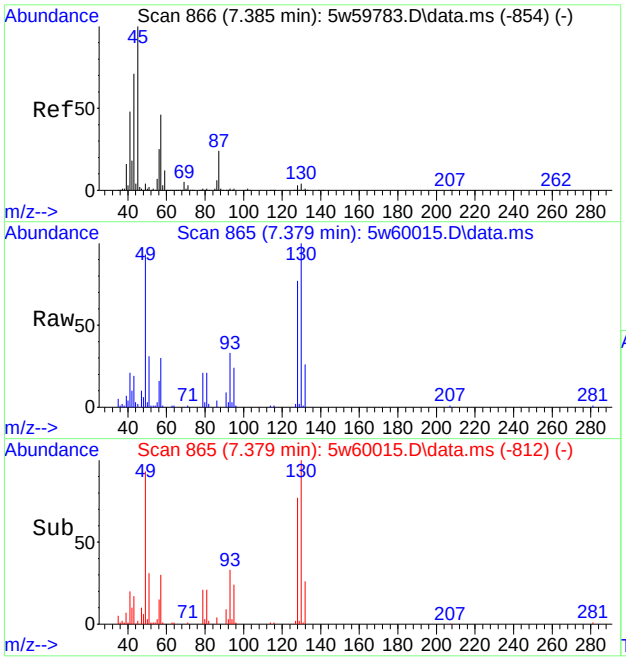


#35
TERTIARY BUTYL ALCOHOL
Concen: 2.44 PPBV
RT: 5.397 min Scan# 541
Delta R.T. 0.019 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 59 Resp: 232332

Ion	Ratio	Lower	Upper
59	100		
41	19.3	0.0	49.3
43	20.2	0.0	44.1

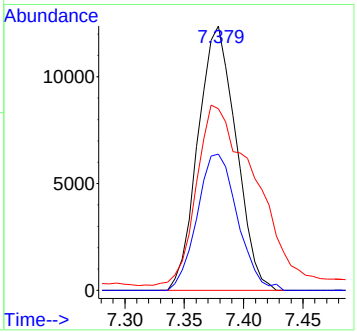


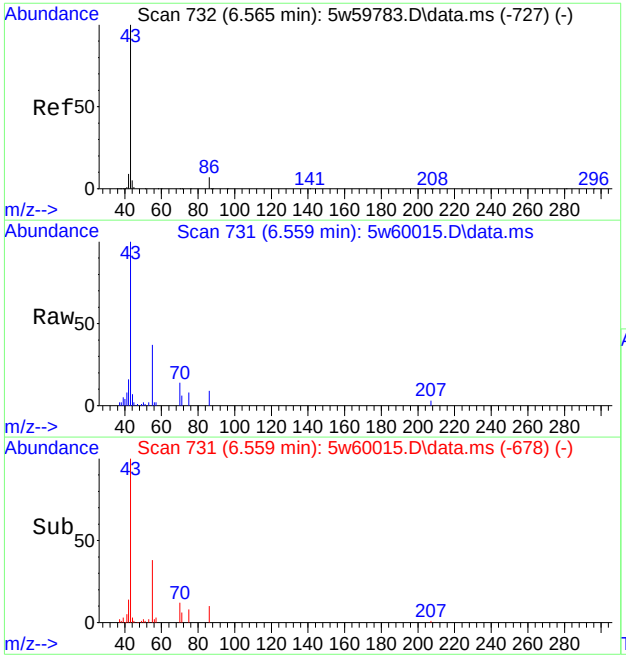


#38
HEXANE
Concen: 0.36 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 57 Resp: 27560

Ion	Ratio	Lower	Upper
57	100		
56	54.6	25.9	85.9
41	107.9	74.7	134.7

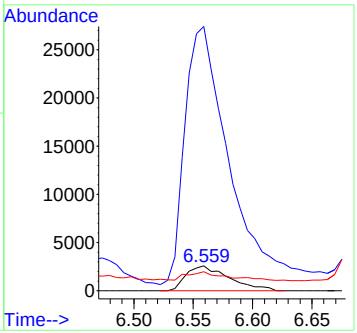


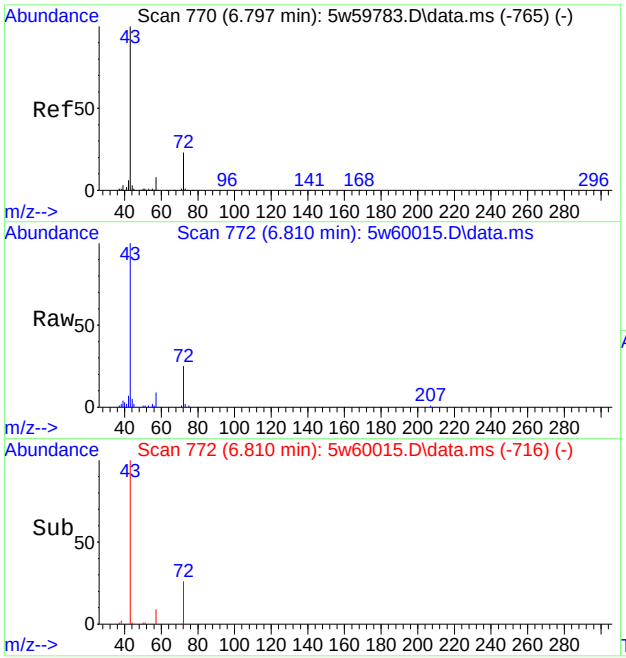


#39
VINYL ACETATE
Concen: 0.85 PPBV
RT: 6.559 min Scan# 731
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 86 Resp: 6540

Ion	Ratio	Lower	Upper
86	100		
43	1094.0	1379.7	1439.7#
44	34.1	36.9	96.9#

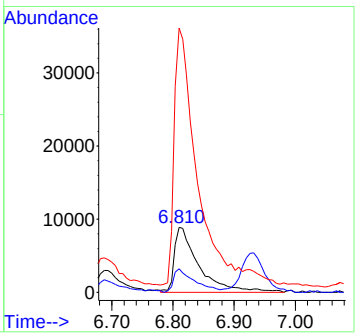


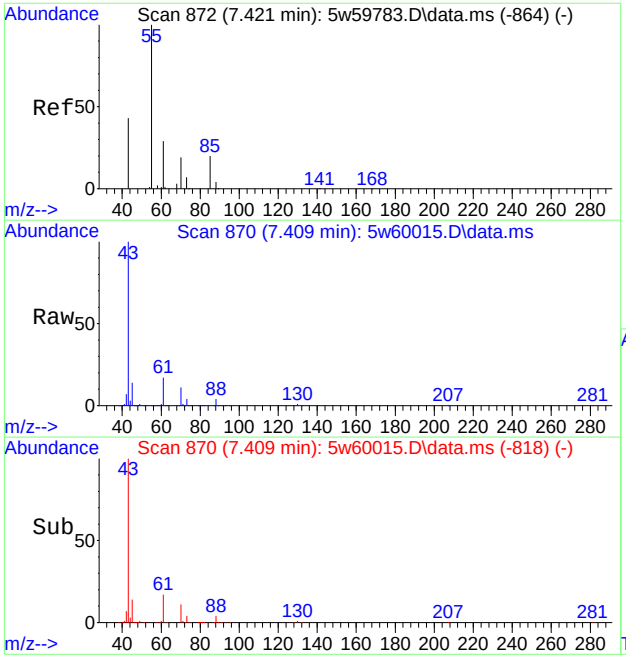


#41
METHYL ETHYL KETONE
Concen: 1.36 PPBV
RT: 6.810 min Scan# 772
Delta R.T. 0.013 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 72 Resp: 24904

Ion	Ratio	Lower	Upper
72	100		
57	36.1	4.8	64.8
43	406.7	415.9	475.9#

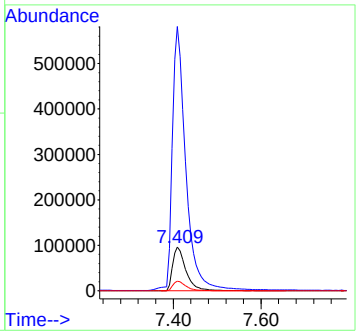


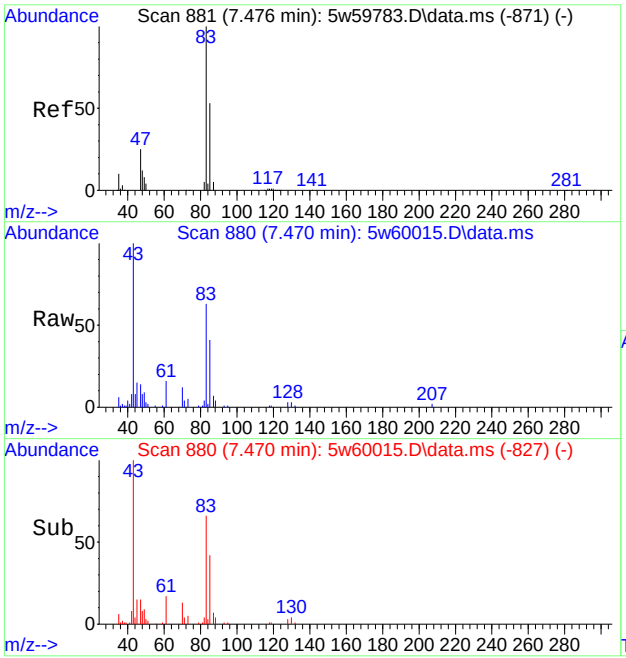


#44
ETHYL ACETATE
Concen: 14.69 PPBV
RT: 7.409 min Scan# 870
Delta R.T. -0.012 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 61 Resp: 205503

Ion	Ratio	Lower	Upper
61	100		
43	609.1	560.5	620.5
88	21.9	4.5	64.5

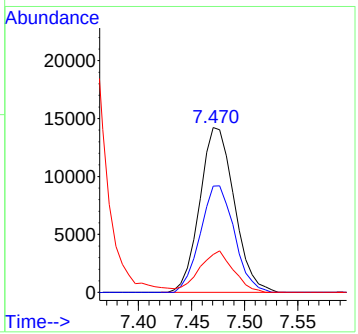


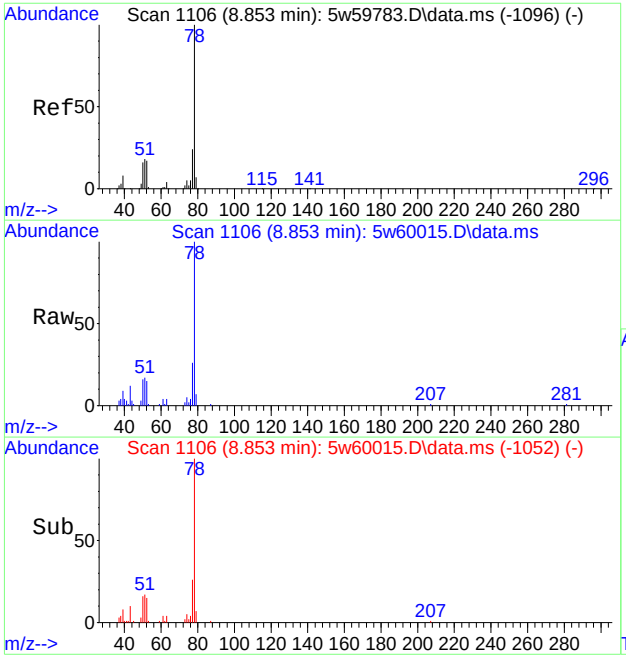


#46
CHLOROFORM
Concen: 0.31 PPBV
RT: 7.470 min Scan# 880
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 83 Resp: 32180

Ion	Ratio	Lower	Upper
83	100		
85	63.7	35.6	95.6
47	24.7	0.0	55.2

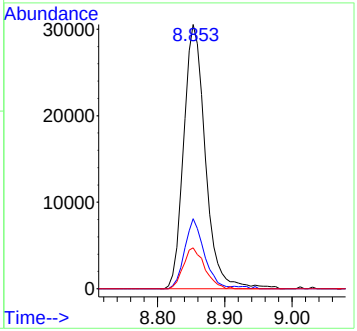


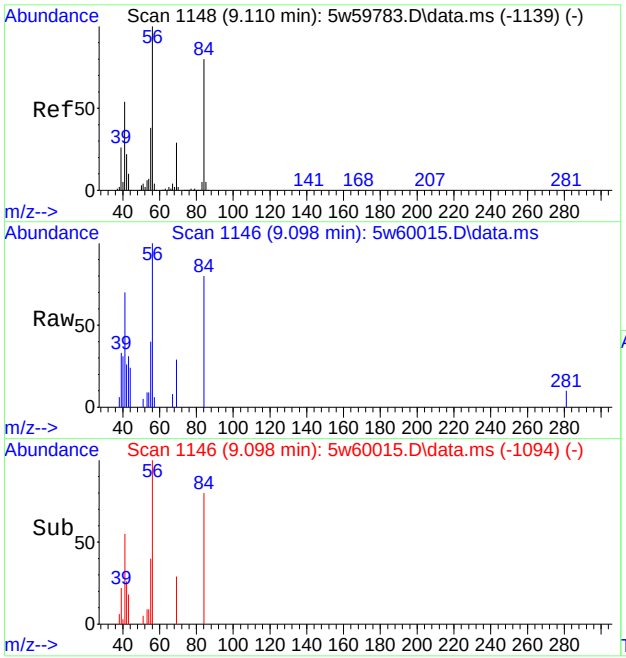


#52
BENZENE
Concen: 0.48 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 78 Resp: 68442

Ion	Ratio	Lower	Upper
78	100		
77	24.7	0.0	53.8
52	15.3	0.0	46.9

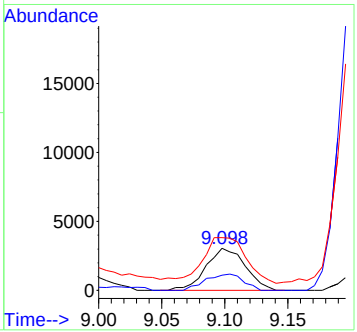


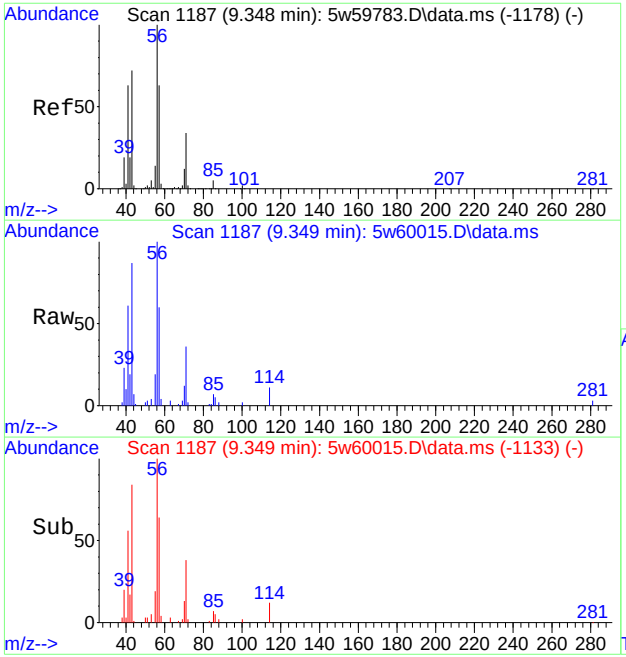


#53
CYCLOHEXANE
Concen: 0.12 PPBV
RT: 9.098 min Scan# 1146
Delta R.T. -0.012 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 84 Resp: 6634

Ion	Ratio	Lower	Upper
84	100		
69	37.1	6.9	66.9
56	154.2	98.2	158.2

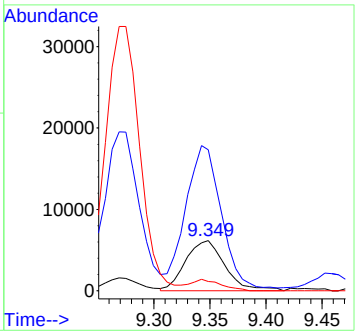


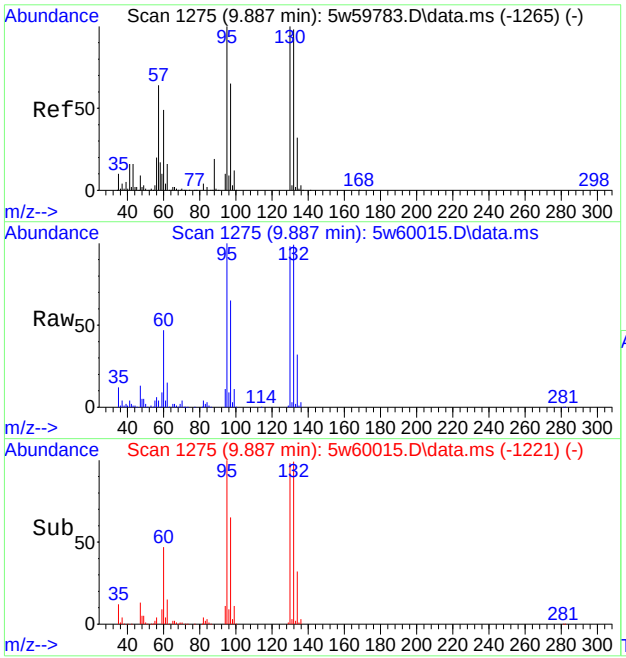


#54
2,3-DIMETHYLPENTANE
Concen: 0.53 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 71 Resp: 15086

Ion	Ratio	Lower	Upper
71	100		
56	254.3	264.6	324.6#
85	17.3	0.0	45.3

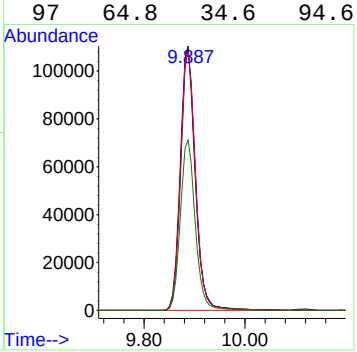


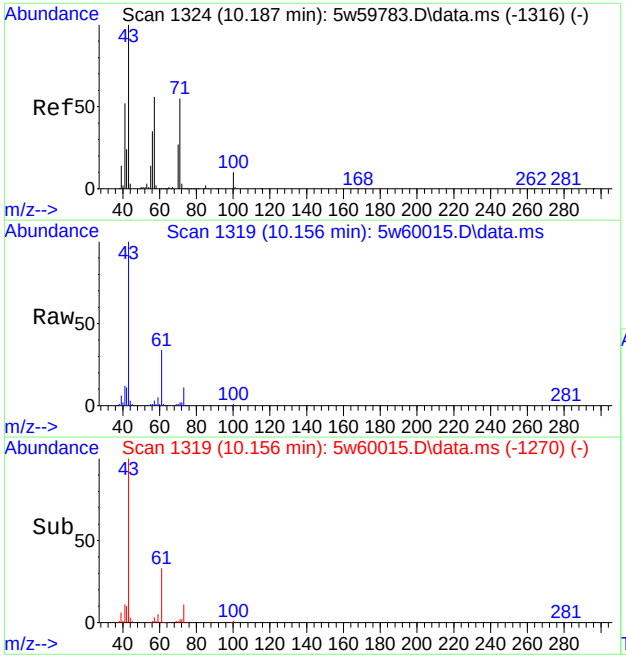


#55
TRICHLOROETHYLENE
Concen: 3.14 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 95 Resp: 226982

Ion	Ratio	Lower	Upper
95	100		
132	98.0	69.0	129.0
130	99.0	70.6	130.6
97	64.8	34.6	94.6

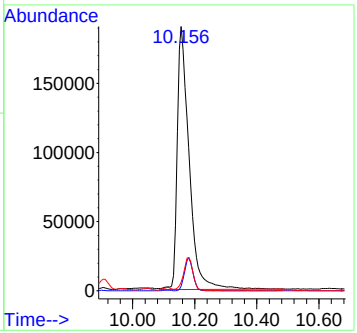


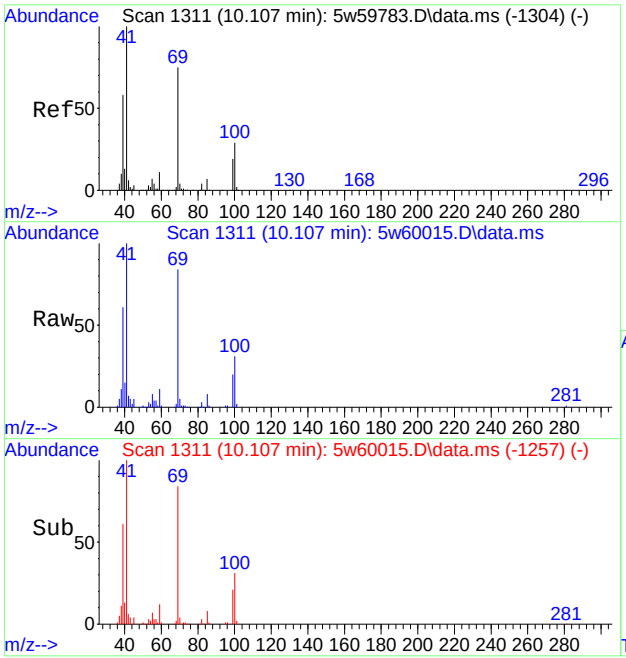


#62
HEPTANE
Concen: 6.21 PPBV
RT: 10.156 min Scan# 1319
Delta R.T. -0.031 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 43 Resp: 507957

Ion	Ratio	Lower	Upper
43	100		
71	0.0	24.5	84.5#
57	0.0	26.2	86.2#

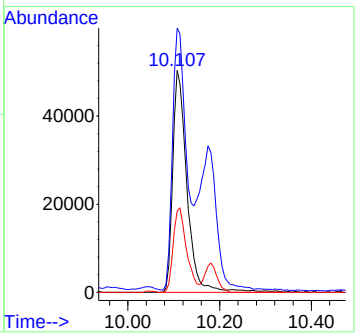


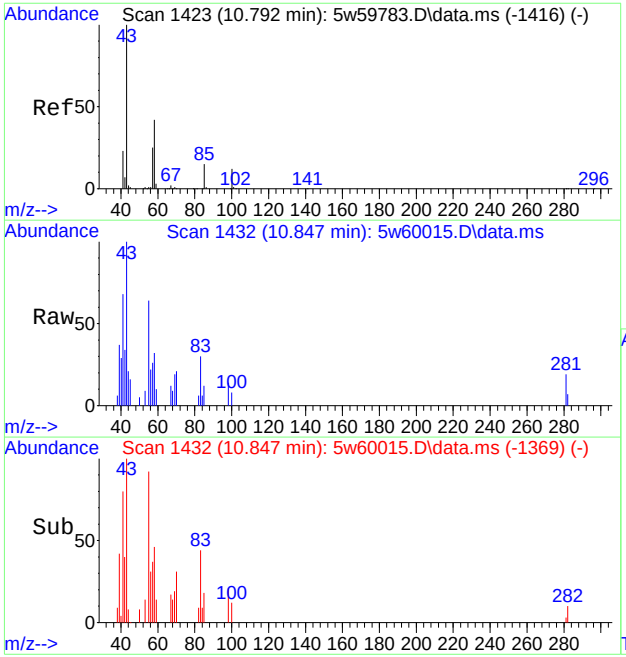


#63
METHYL METHACRYLATE
Concen: 2.35 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 69 Resp: 108895

Ion	Ratio	Lower	Upper
69	100		
41	196.5	95.3	155.3#
100	36.1	6.3	66.3

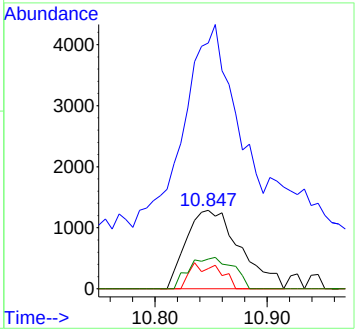


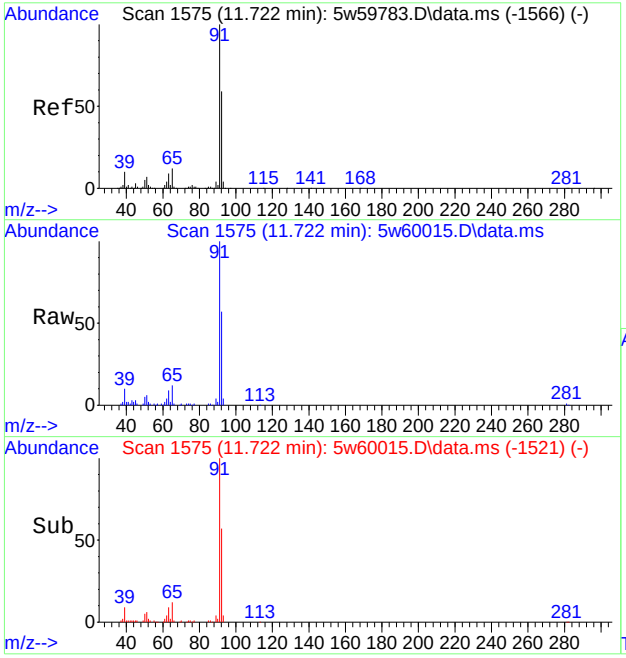


#64
METHYL ISOBUTYL KETONE
Concen: 0.10 PPBV
RT: 10.847 min Scan# 1432
Delta R.T. 0.055 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 58 Resp: 4297

Ion	Ratio	Lower	Upper
58	100		
43	373.1	209.2	269.2#
100	18.2	0.0	58.8
85	32.7	9.4	69.4

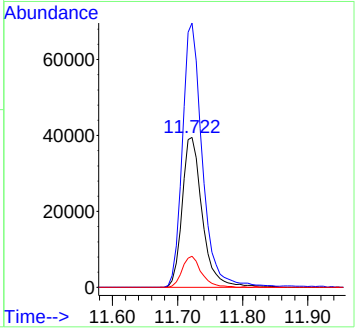


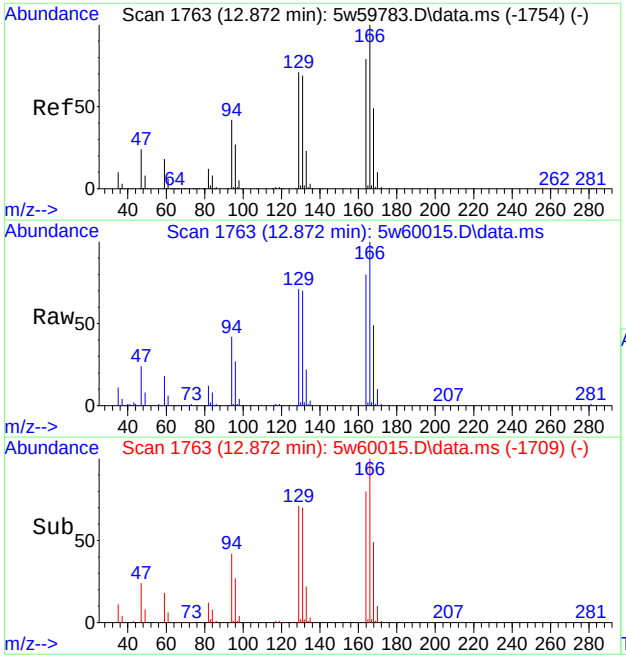


#66
TOLUENE
Concen: 0.80 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 92 Resp: 85377

Ion	Ratio	Lower	Upper
92	100		
91	175.7	140.1	200.1
65	19.8	0.0	53.1

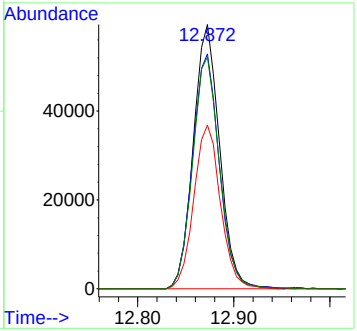


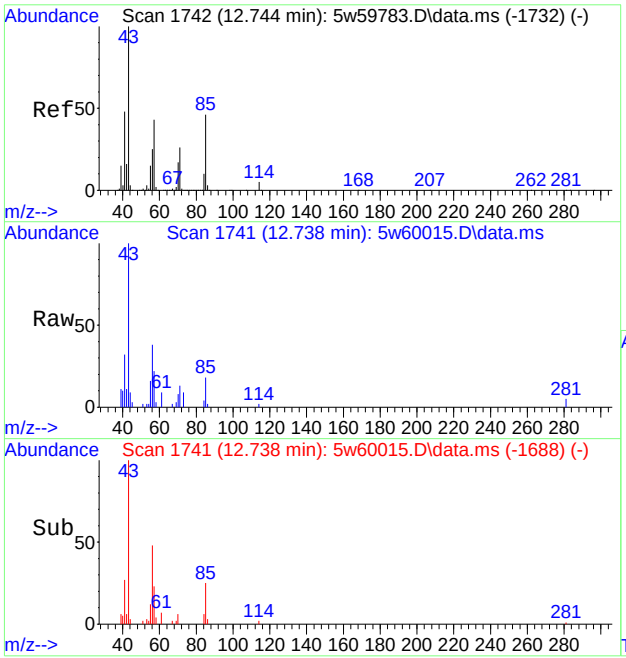


#73
TETRACHLOROETHYLENE
Concen: 1.60 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion:164 Resp: 113399

Ion	Ratio	Lower	Upper
164	100		
129	90.2	59.7	119.7
168	62.8	32.2	92.2
131	89.6	57.8	117.8

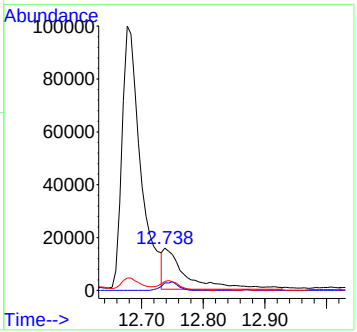


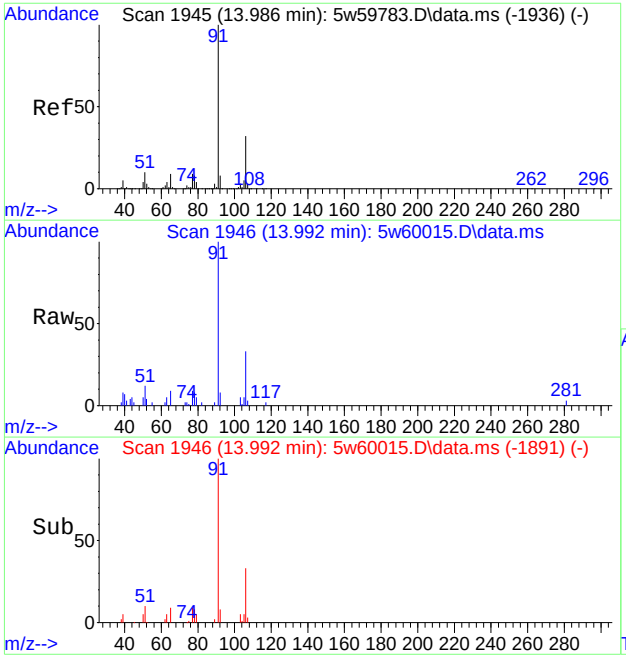


#76
OCTANE
Concen: 0.41 PPBV m
RT: 12.738 min Scan# 1741
Delta R.T. -0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 43 Resp: 40014

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	26.8	13.7	73.7

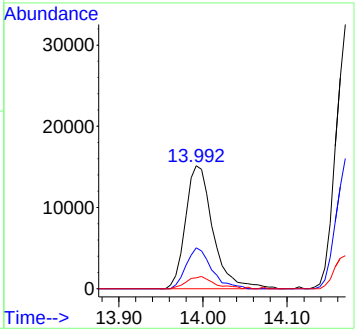


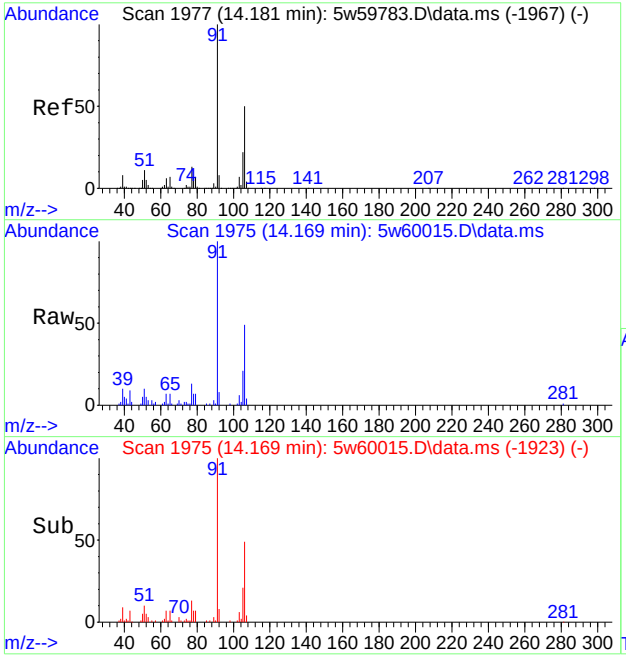


#79
ETHYLBENZENE
Concen: 0.17 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 91 Resp: 34348

Ion	Ratio	Lower	Upper
91	100		
106	30.7	1.3	61.3
77	10.3	0.0	38.6

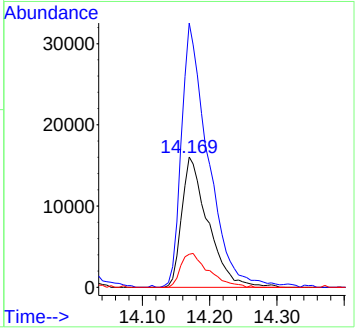


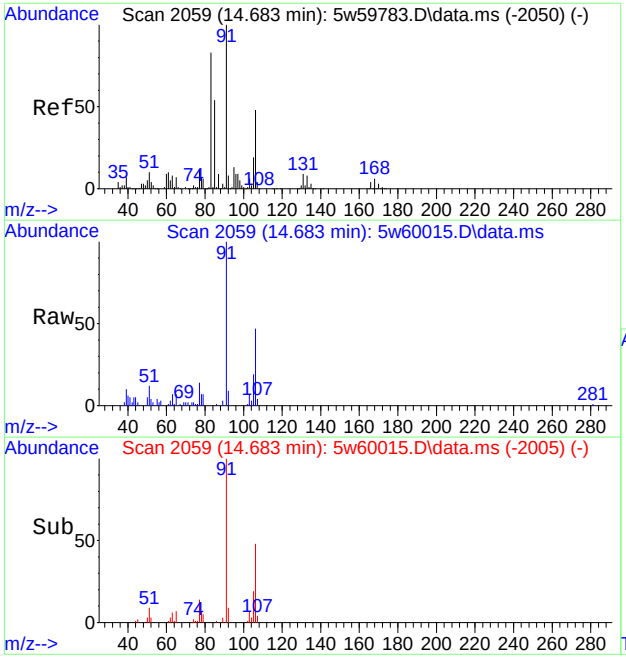


#80
m,p-XYLENE
Concen: 0.56 PPBV
RT: 14.169 min Scan# 1975
Delta R.T. -0.012 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion:106 Resp: 43782

Ion	Ratio	Lower	Upper
106	100		
91	202.9	171.0	231.0
77	25.5	0.0	56.7

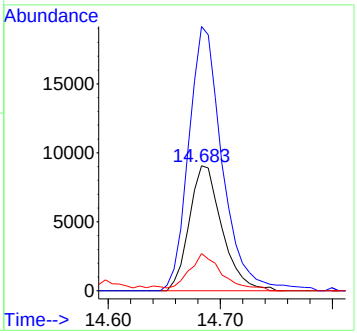


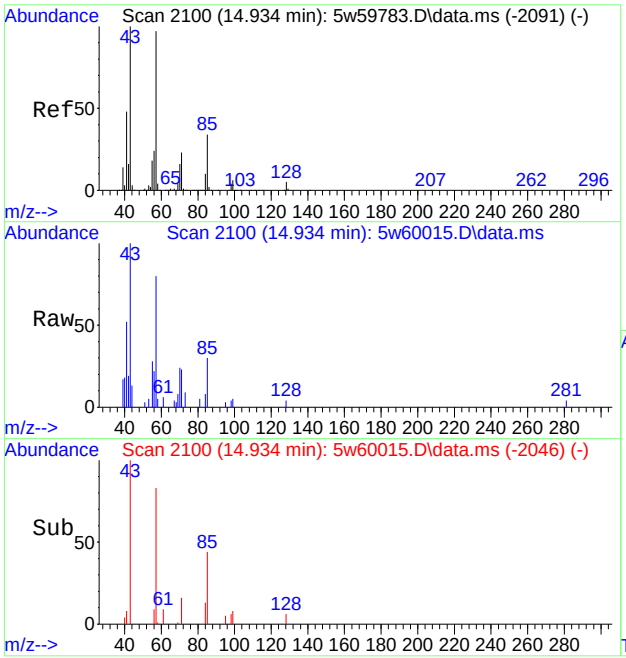


#81
o-XYLENE
Concen: 0.25 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion:106 Resp: 18438

Ion	Ratio	Lower	Upper
106	100		
91	217.7	181.6	241.6
77	30.0	0.0	56.6

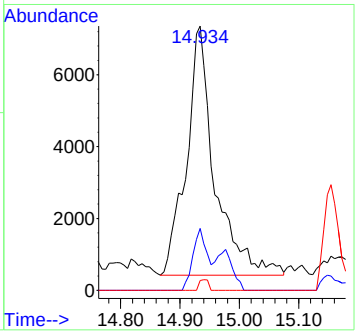


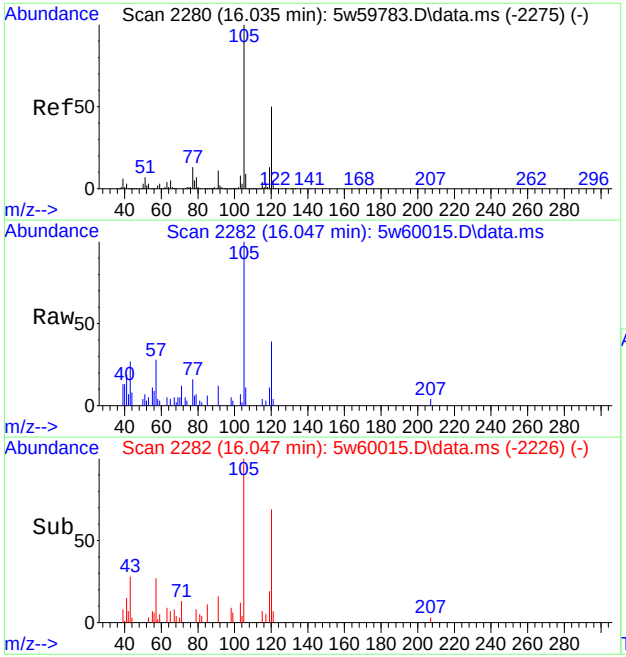


#83
NONANE
Concen: 0.23 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion: 43 Resp: 22971

Ion	Ratio	Lower	Upper
43	100		
71	13.7	0.0	52.7
128	1.4	0.0	34.7

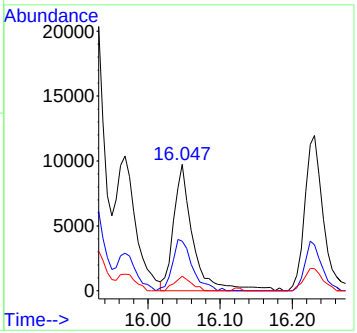


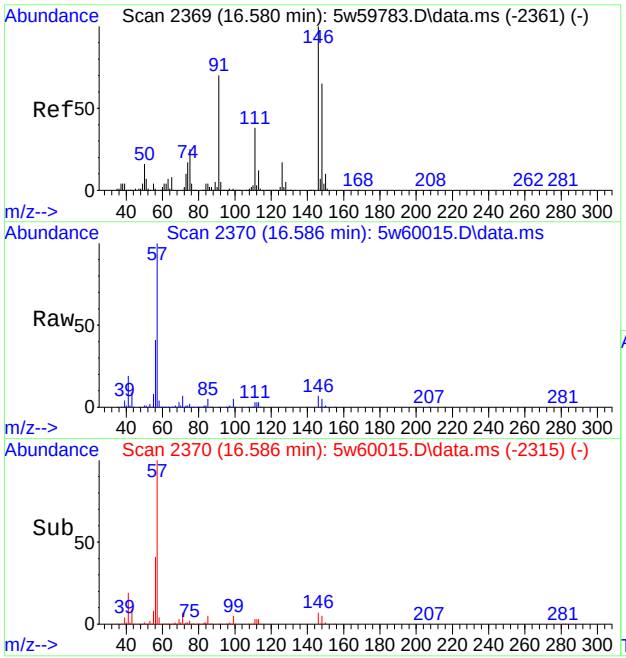


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion:105 Resp: 18222

Ion	Ratio	Lower	Upper
105	100		
120	41.5	19.4	79.4
91	10.1	0.0	40.8

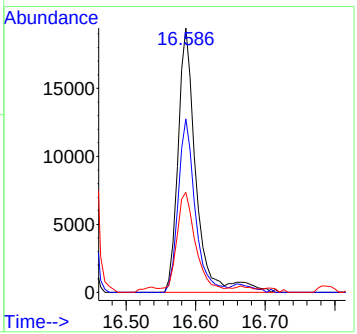


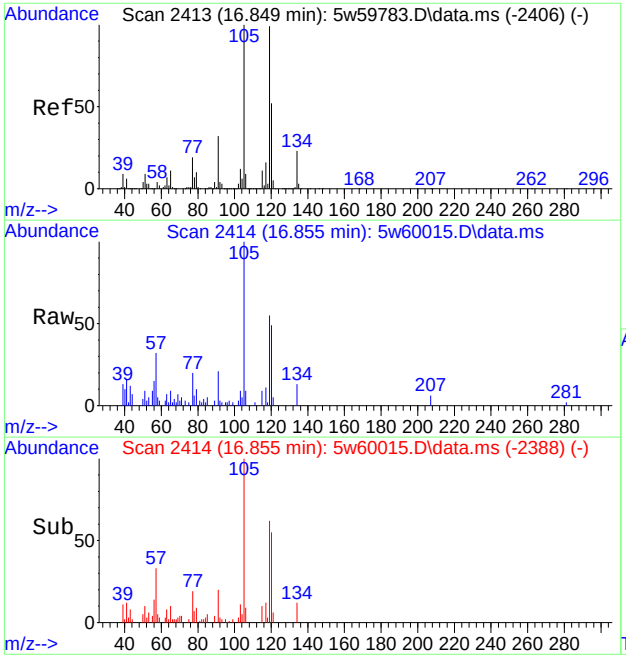


#97
m-DICHLOROBENZENE
Concen: 0.26 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion:146 Resp: 35127

Ion	Ratio	Lower	Upper
146	100		
148	61.9	34.8	94.8
111	36.1	8.2	68.2

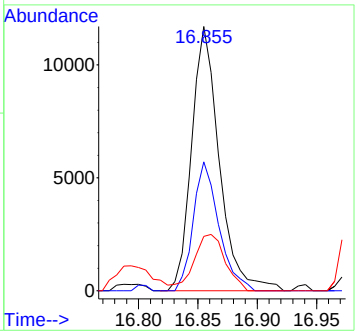


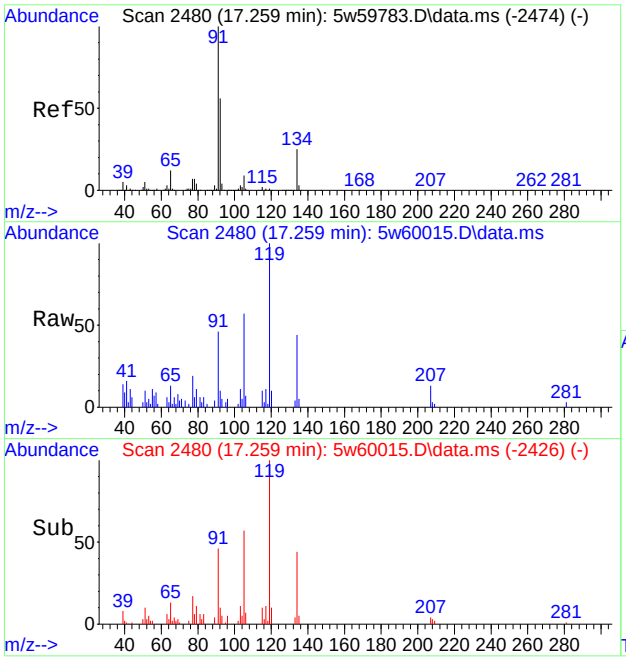


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion:105 Resp: 18971

Ion	Ratio	Lower	Upper
105	100		
120	45.1	23.5	83.5
91	24.2	7.4	67.4

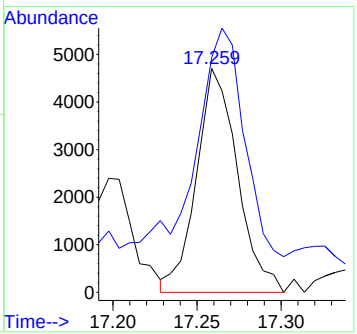




#104
n-BUTYLBENZENE
Concen: 0.15 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w60015.D
Acq: 24 Nov 2025 9:35 pm

Tgt Ion:134 Resp: 7976

Ion	Ratio	Lower	Upper
134	100		
91	158.0	363.1	423.1#



Manual Integration Approval Summary

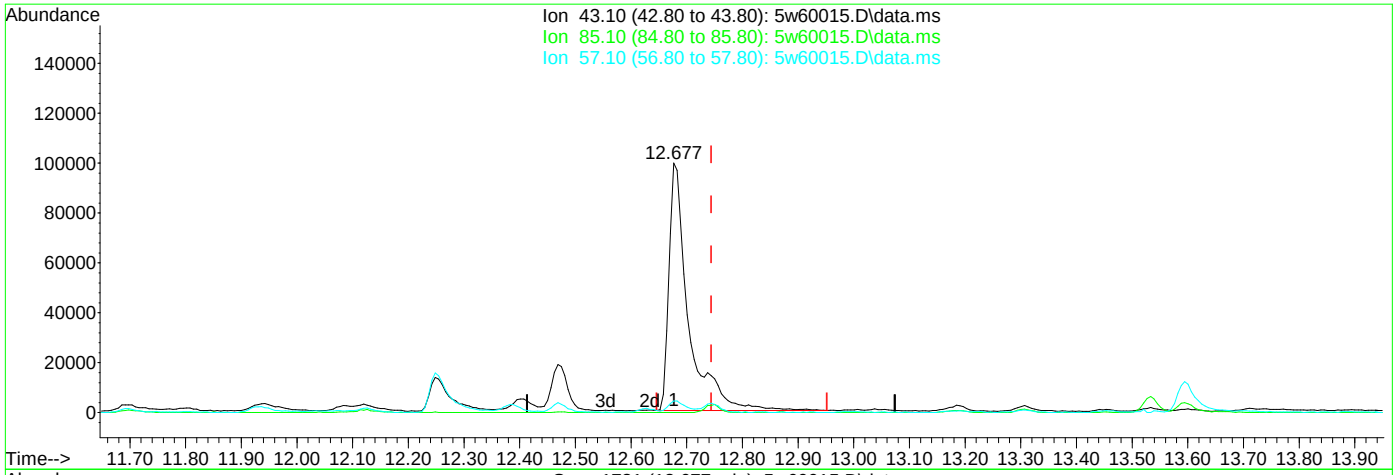
Sample Number:	JE23793-1	**Method:**	TO-15
Lab FileID:	5W60015.D	**Analyst approved:**	11/25/25 13:00 Claire Basilio
Injection Time:	11/24/25 21:35	**Supervisor approved:**	11/28/25 18:30 Kanya Veerawat

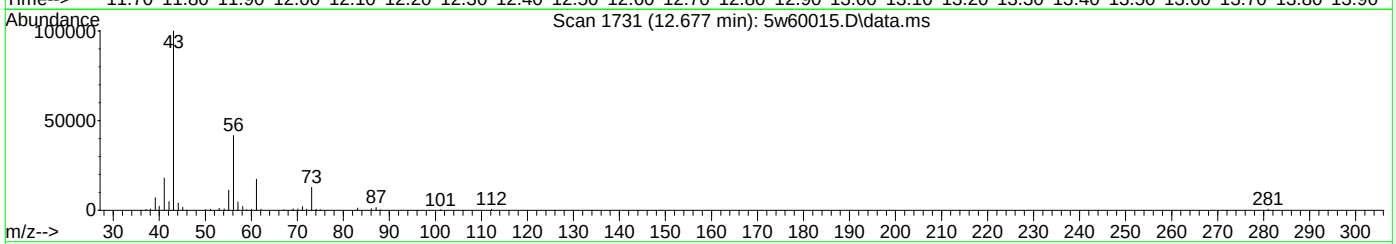
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octane	111-65-9		12.74	Overlapping peak

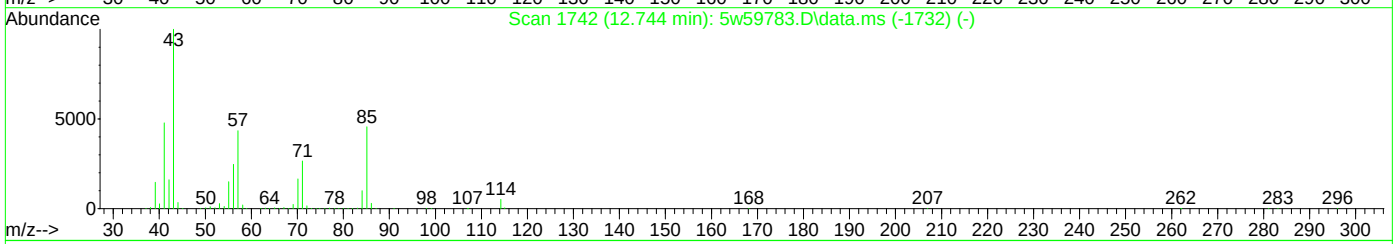
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60015.D
Acq On : 24 Nov 2025 9:35 pm
Operator : benk
Sample : je23793-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 26 01:18:01 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60015.D\data.ms

(76) OCTANE

12.677min (-0.067) 2.48PPBV

response 243590

Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	4.40#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60043.D
Acq On : 25 Nov 2025 6:32 pm
Operator : benk
Sample : je23793-1
Misc : MS99437,V5W2302,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 28 18:04:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

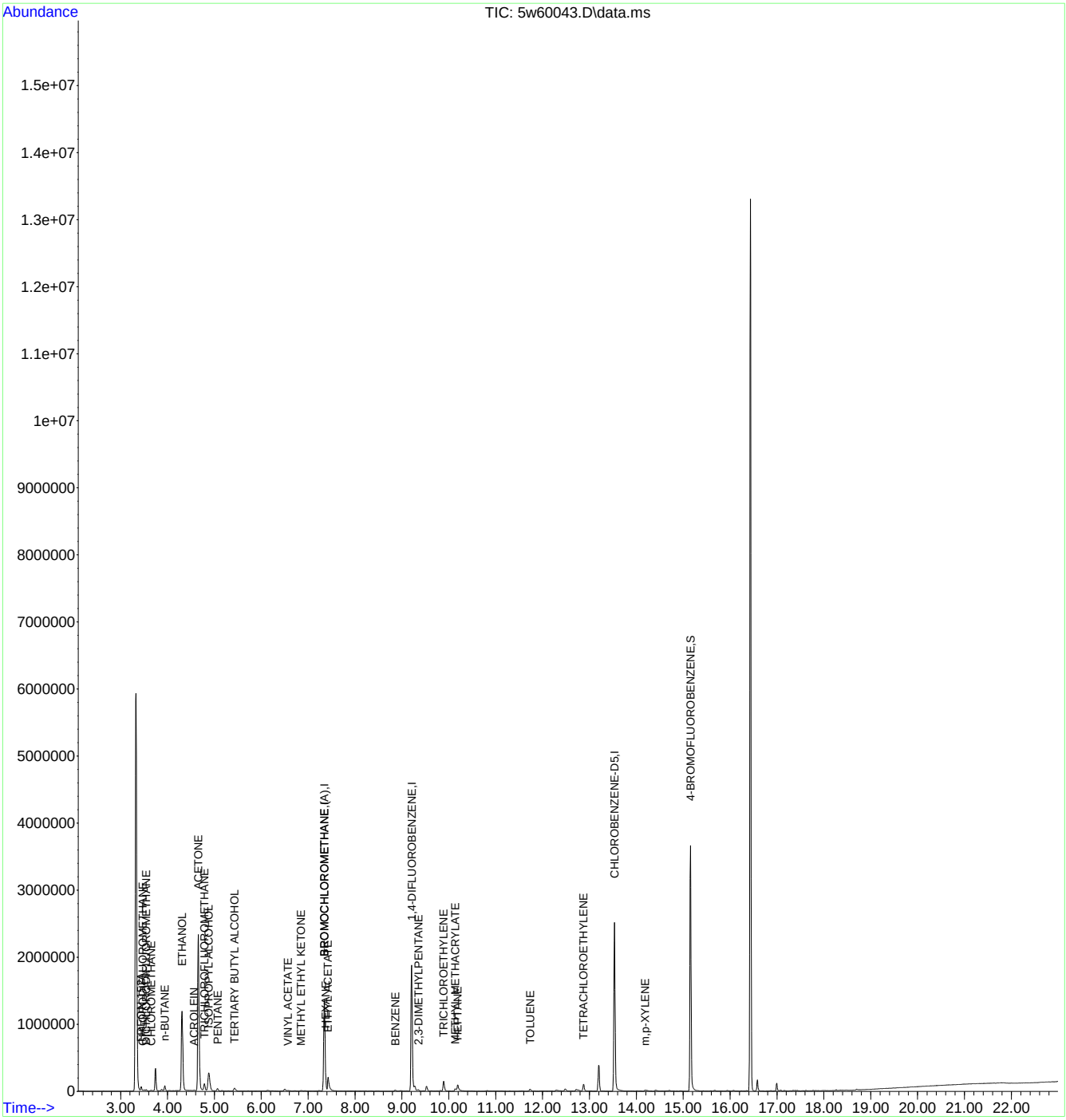
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	438072	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	1718293	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	876380	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	438169	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1239024	11.32	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 113.20%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	27463	0.8453	PPBV	100
4) CHLORODIFLUOROMETHANE	3.476	67	1314	0.0967	PPBV	48
6) DICHLORODIFLUOROMETHANE	3.543	85	17492	0.1395	PPBV	99
10) CHLOROMETHANE	3.659	52	1659	0.1205	PPBV	91
13) n-BUTANE	3.941	43	67251	1.6107	PPBV	98
18) ACROLEIN	4.571	56	5521	0.4073	PPBV	78
21) TRICHLOROFLUOROMETHANE	4.785	101	87064	0.8130	PPBV	99
22) ISOPROPYL ALCOHOL	4.877	45	510915	5.9476	PPBV	95
23) ACETONE	4.656	58	1152951	67.1048	PPBV	85
24) PENTANE	5.066	42	15141	0.3393	PPBV	98
28) ETHANOL	4.308	45	1626352	113.0044	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.433	59	59315	0.6753	PPBV	90
38) HEXANE	7.379	57	7675	0.1097	PPBV	80
39) VINYL ACETATE	6.571	86	1406	0.1988	PPBV #	87
41) METHYL ETHYL KETONE	6.853	72	5245	0.3100	PPBV #	62
44) ETHYL ACETATE	7.428	61	48195	3.7274	PPBV	97
52) BENZENE	8.859	78	16371	0.1422	PPBV	97
54) 2,3-DIMETHYLPENTANE	9.349	71	3159	0.1359	PPBV #	72
55) TRICHLOROETHYLENE	9.887	95	54609	0.9312	PPBV	98
62) HEPTANE	10.193	43	106263	1.6043	PPBV #	39
63) METHYL METHACRYLATE	10.132	69	23041	0.6141	PPBV	76
66) TOLUENE	11.735	92	19149	0.2225	PPBV	95
73) TETRACHLOROETHYLENE	12.872	164	27327	0.4571	PPBV	99
80) m,p-XYLENE	14.188	106	9197	0.1389	PPBV	88

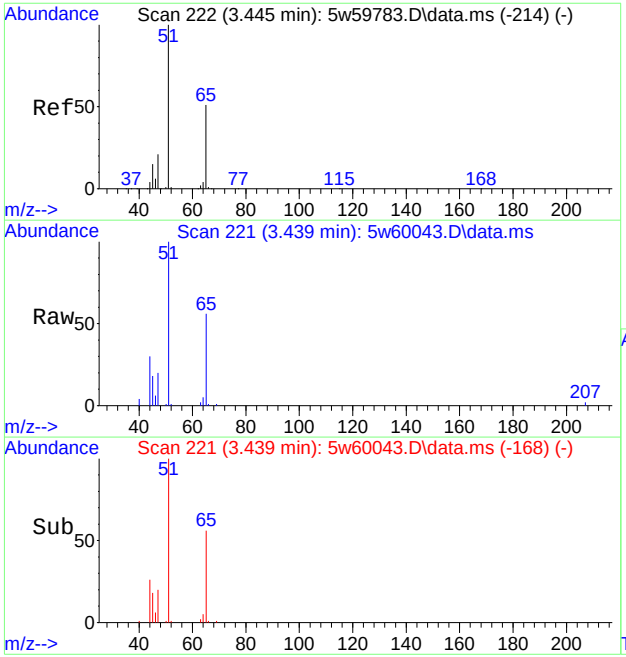
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60043.D
Acq On : 25 Nov 2025 6:32 pm
Operator : benk
Sample : je23793-1
Misc : MS99437,V5W2302,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 28 18:04:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

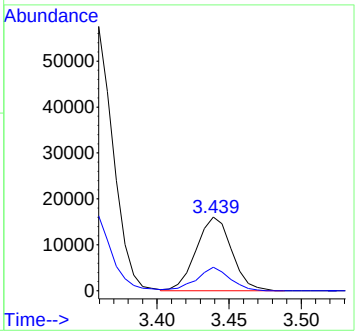


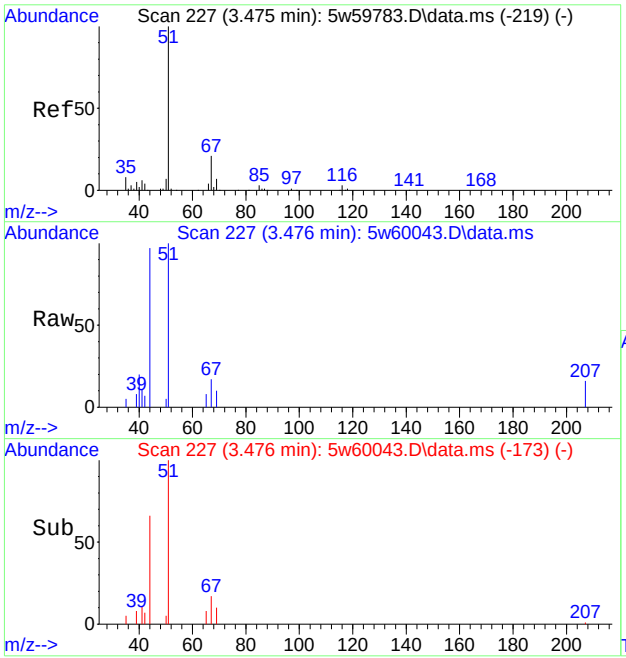


#3
FREON 152A
Concen: 0.85 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 65 Resp: 27463

Ion	Ratio	Lower	Upper
65	100		
45	30.0	0.0	60.0

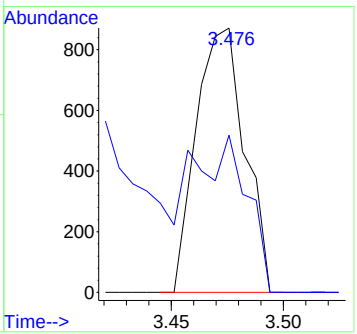


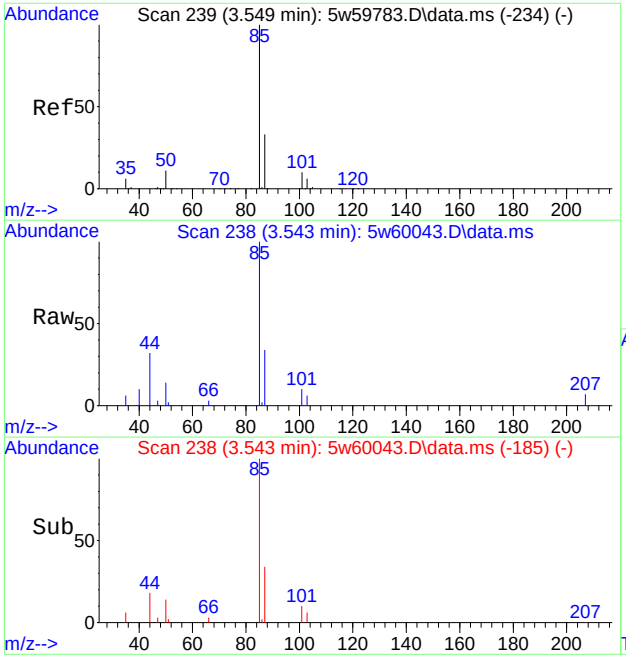


#4
CHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 67 Resp: 1314

Ion	Ratio	Lower	Upper
67	100		
69	59.5	1.0	61.0

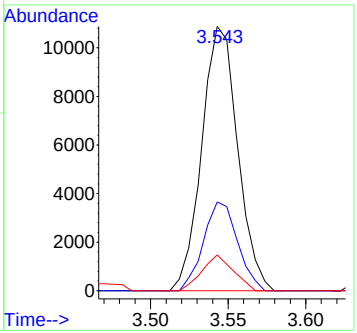


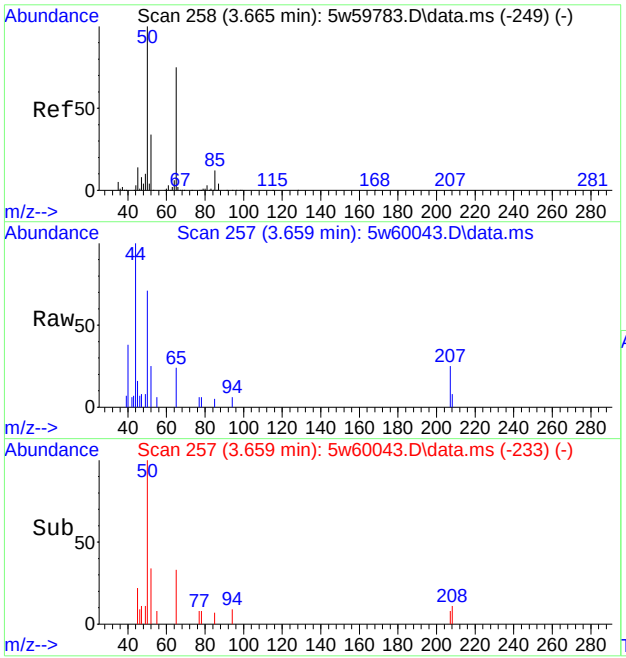


#6
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 85 Resp: 17492

Ion	Ratio	Lower	Upper
85	100		
87	31.9	2.5	62.5
50	11.8	0.0	41.7

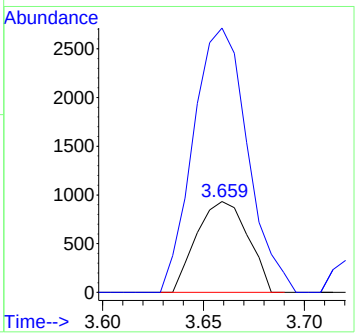


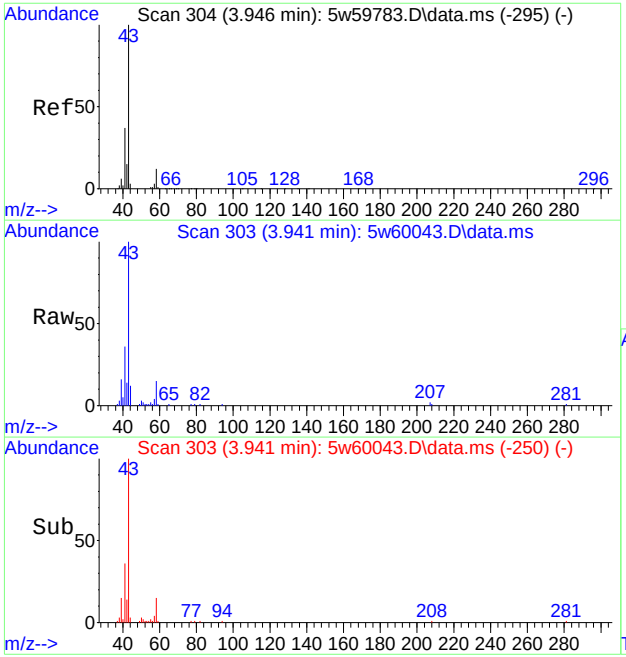


#10
CHLOROMETHANE
Concen: 0.12 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 52 Resp: 1659

Ion	Ratio	Lower	Upper
52	100		
50	279.6	267.9	327.9

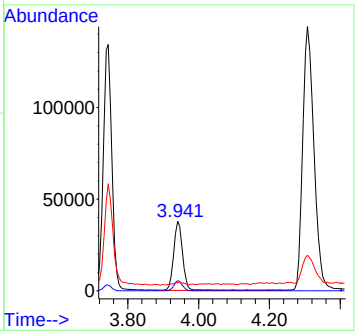


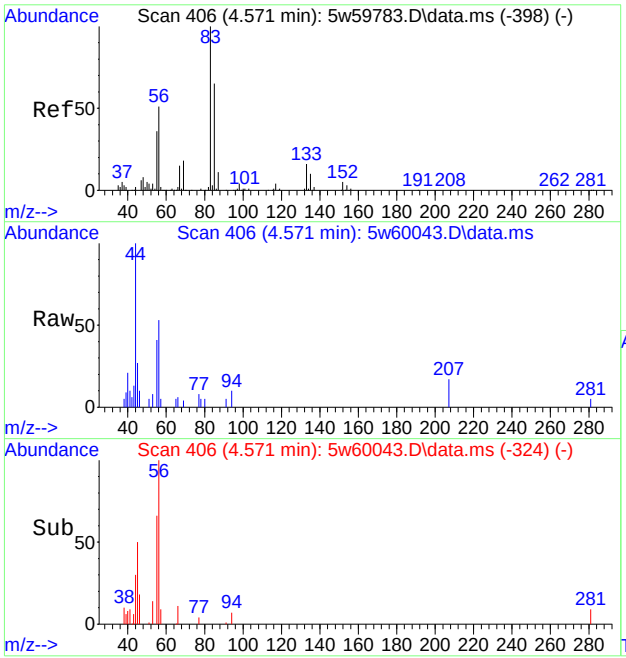


#13
n-BUTANE
Concen: 1.61 PPBV
RT: 3.941 min Scan# 303
Delta R.T. -0.005 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 43 Resp: 67251

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	4.5	0.0	34.9

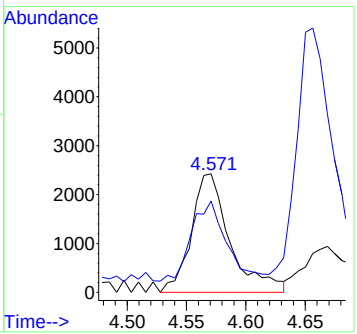


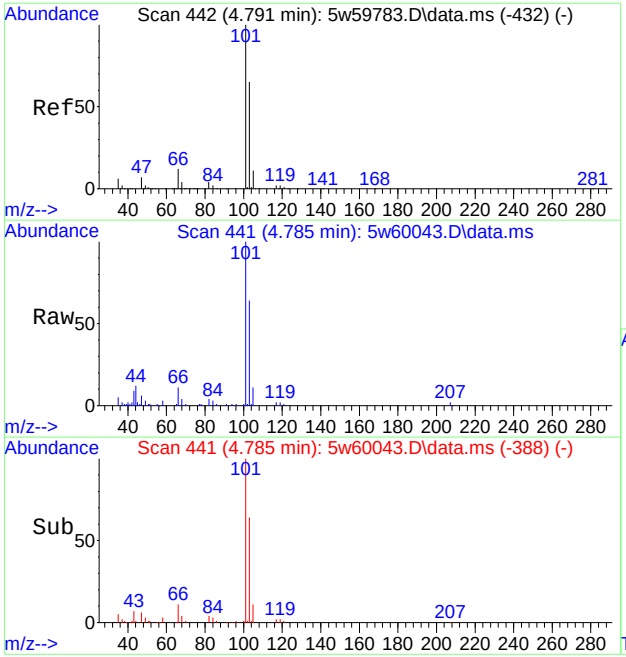


#18
ACROLEIN
Concen: 0.41 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 56 Resp: 5521

Ion	Ratio	Lower	Upper
56	100		
55	84.5	46.6	86.6

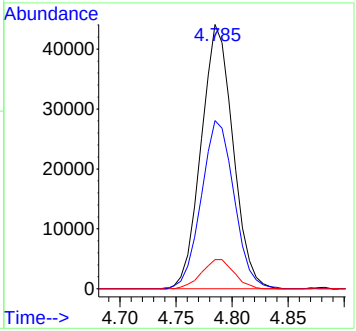


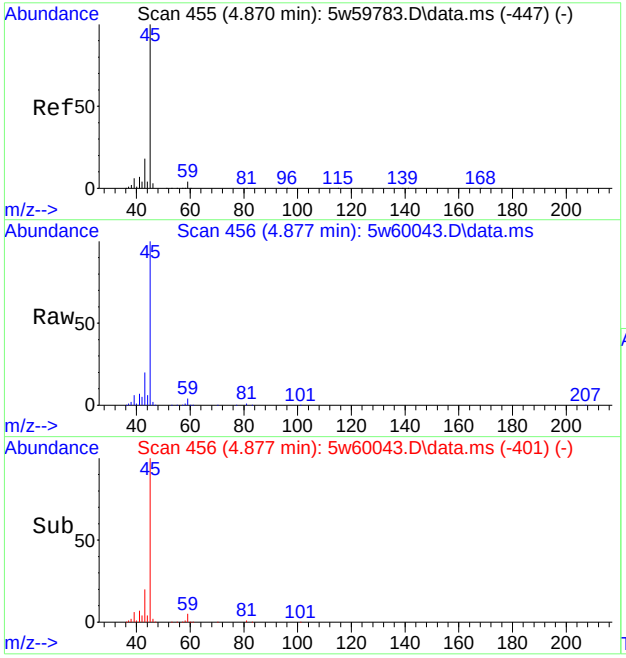


#21
TRICHLOROFLUOROMETHANE
Concen: 0.81 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion:101 Resp: 87064

Ion	Ratio	Lower	Upper
101	100		
103	65.7	35.0	95.0
105	11.4	0.0	40.7

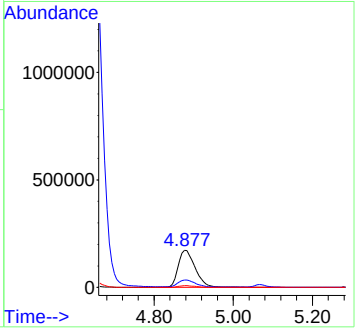


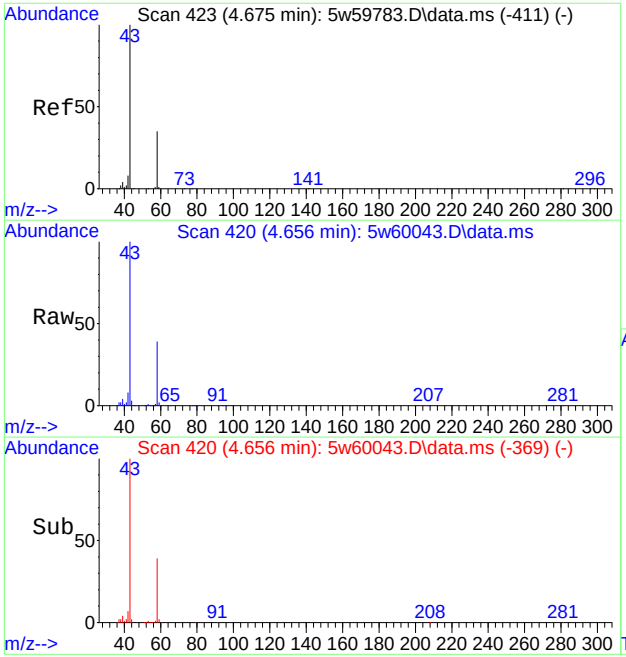


#22
ISOPROPYL ALCOHOL
Concen: 5.95 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.007 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 45 Resp: 510915

Ion	Ratio	Lower	Upper
45	100		
43	20.3	0.0	47.8
59	4.5	0.0	34.1

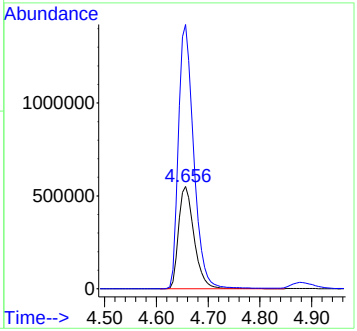


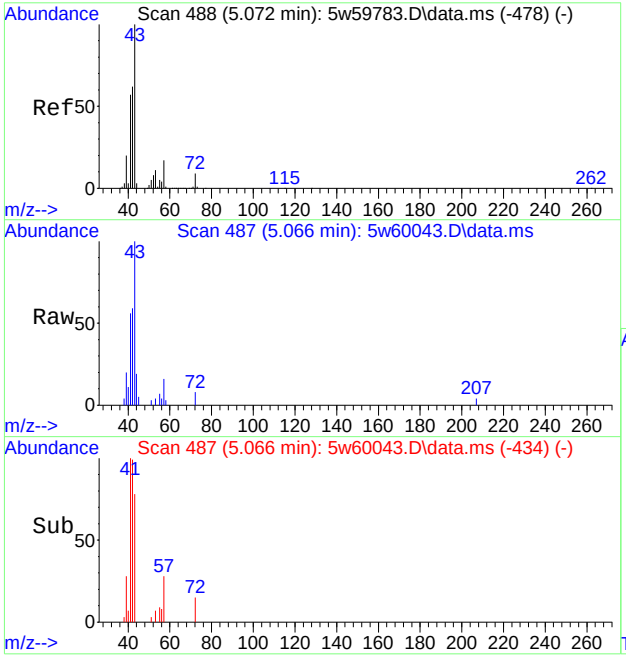


#23
ACETONE
Concen: 67.10 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 58 Resp: 1152951

Ion	Ratio	Lower	Upper
58	100		
43	253.8	252.3	312.3

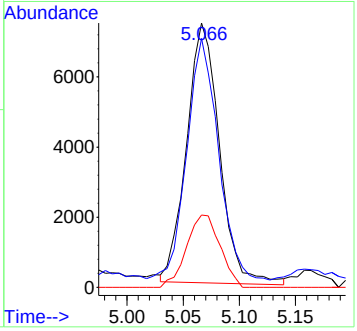


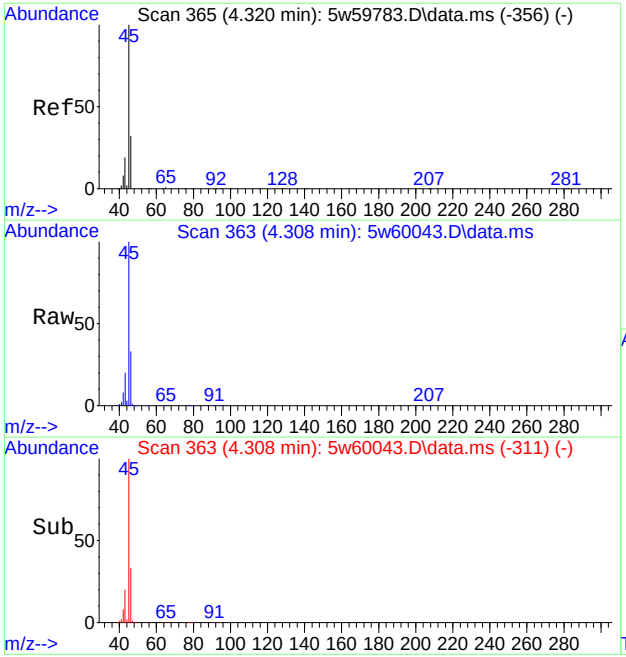


#24
PENTANE
Concen: 0.34 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 42 Resp: 15141

Ion	Ratio	Lower	Upper
42	100		
41	94.8	62.3	122.3
57	28.3	0.0	57.7

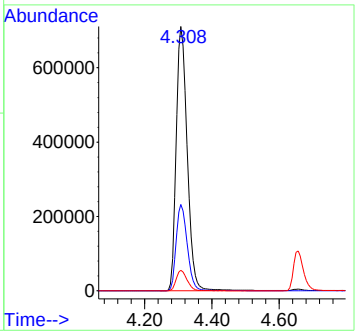


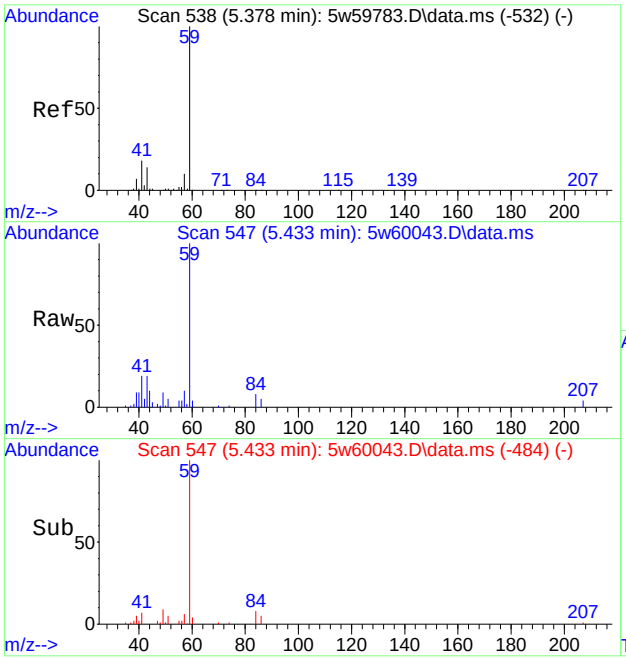


#28
ETHANOL
Concen: 113.00 PPBV
RT: 4.308 min Scan# 363
Delta R.T. -0.012 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 45 Resp: 1626352

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	8.0	0.0	38.5

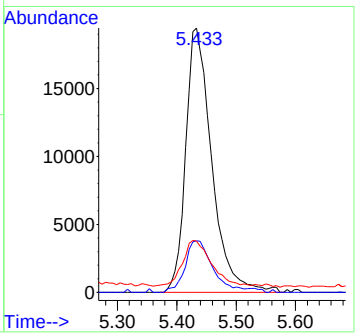


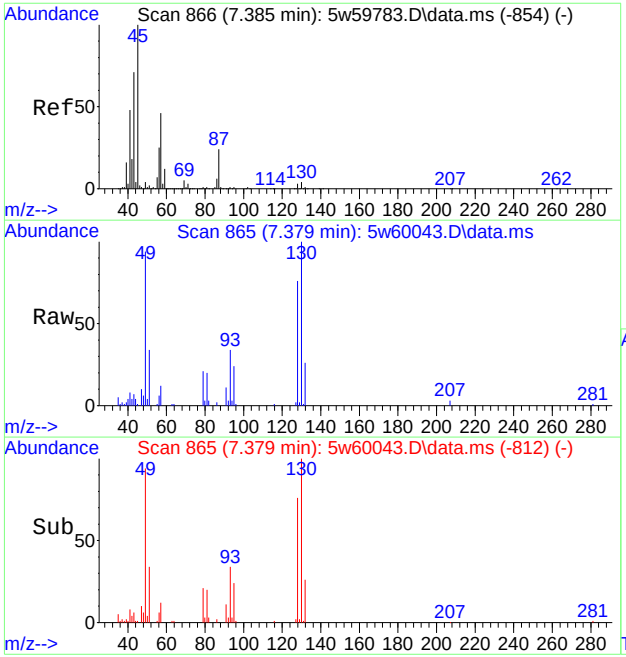


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.68 PPBV
RT: 5.433 min Scan# 547
Delta R.T. 0.055 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 59 Resp: 59315

Ion	Ratio	Lower	Upper
59	100		
41	21.4	0.0	49.3
43	20.8	0.0	44.1

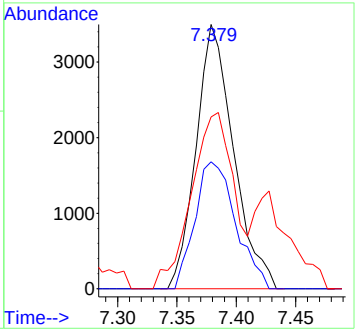


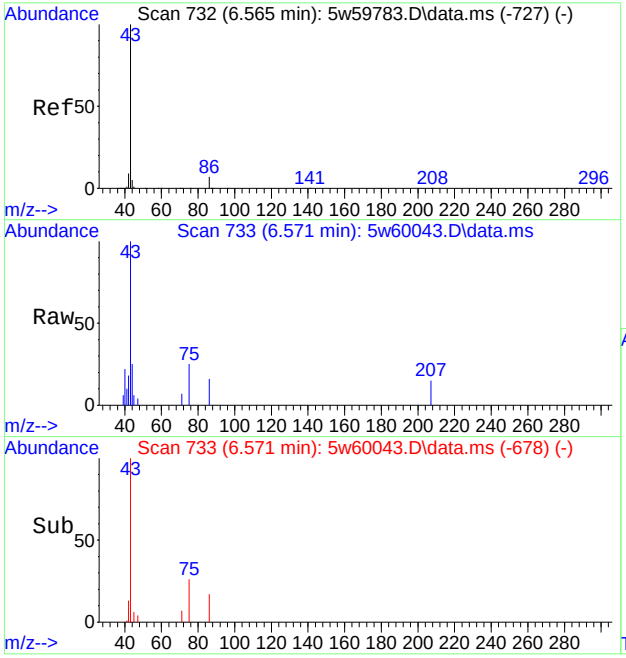


#38
HEXANE
Concen: 0.11 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 57 Resp: 7675

Ion	Ratio	Lower	Upper
57	100		
56	52.1	25.9	85.9
41	75.9	74.7	134.7

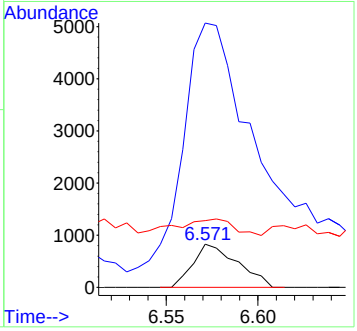


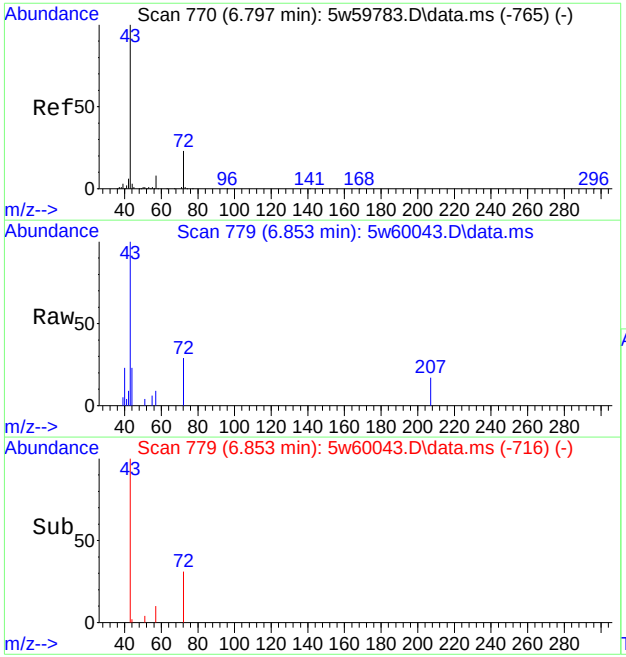


#39
VINYL ACETATE
Concen: 0.20 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 86 Resp: 1406

Ion	Ratio	Lower	Upper
86	100		
43	1338.0	1379.7	1439.7#
44	46.3	36.9	96.9

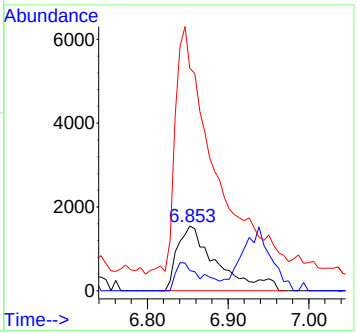


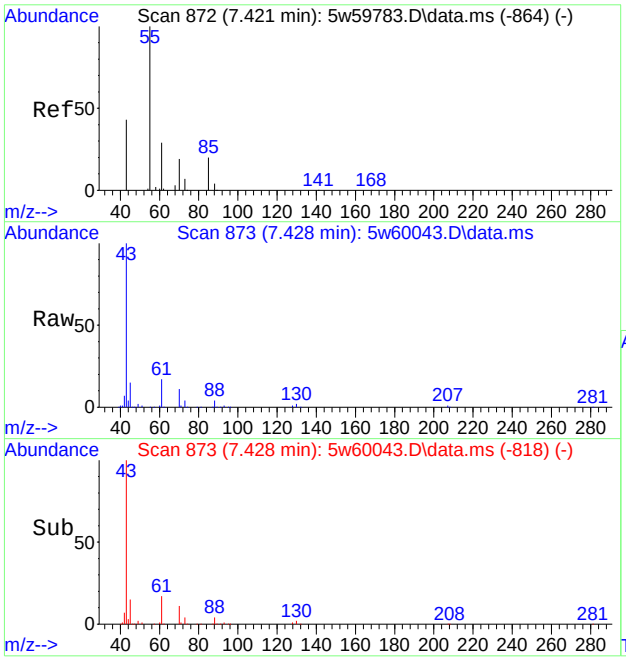


#41
METHYL ETHYL KETONE
Concen: 0.31 PPBV
RT: 6.853 min Scan# 779
Delta R.T. 0.056 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 72 Resp: 5245

Ion	Ratio	Lower	Upper
72	100		
57	31.5	4.8	64.8
43	343.6	415.9	475.9#

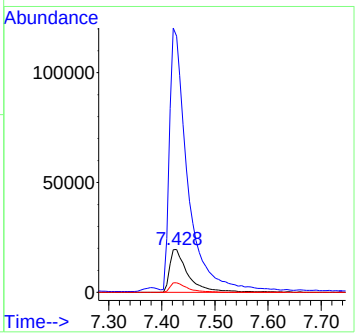


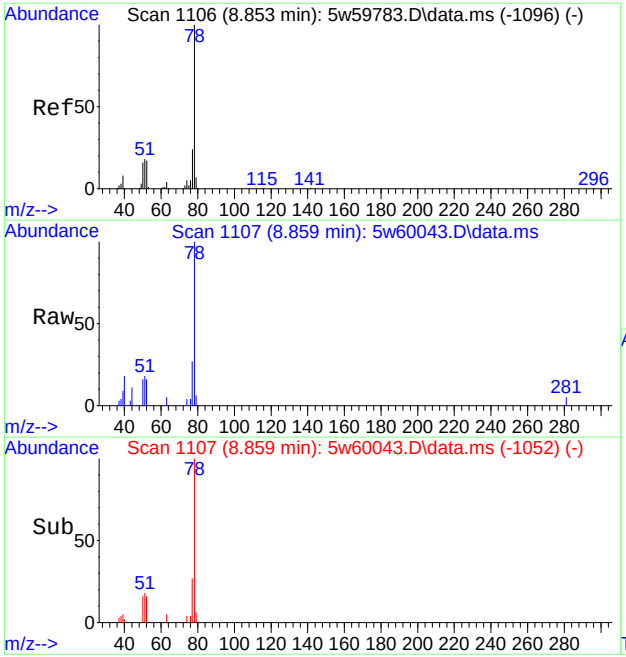


#44
ETHYL ACETATE
Concen: 3.73 PPBV
RT: 7.428 min Scan# 873
Delta R.T. 0.007 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 61 Resp: 48195

Ion	Ratio	Lower	Upper
61	100		
43	596.2	560.5	620.5
88	20.8	4.5	64.5

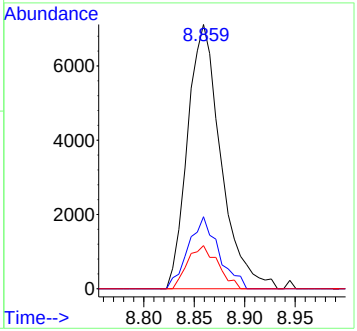


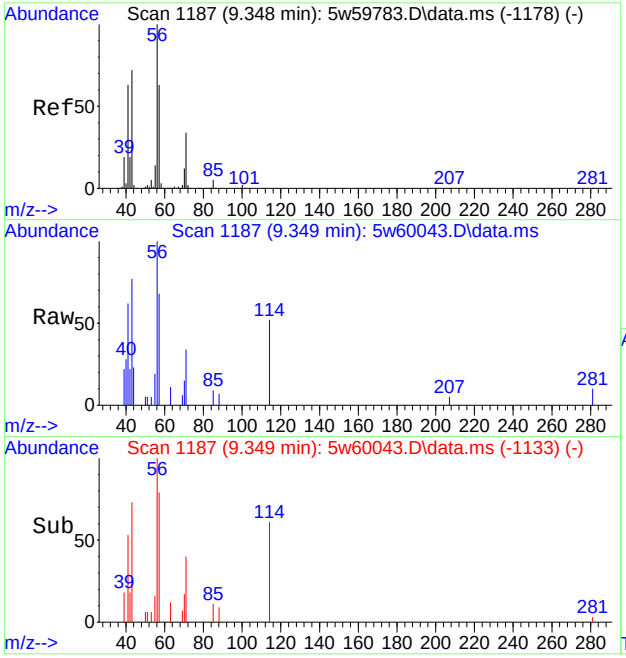


#52
BENZENE
Concen: 0.14 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 78 Resp: 16371

Ion	Ratio	Lower	Upper
78	100		
77	24.9	0.0	53.8
52	14.8	0.0	46.9

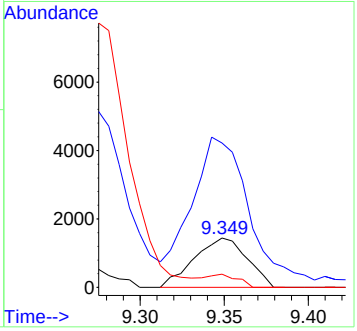


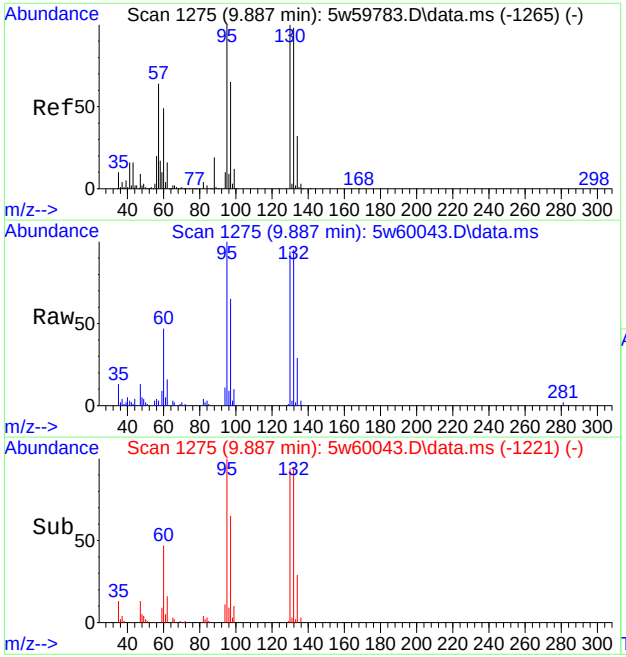


#54
2,3-DIMETHYLPENTANE
Concen: 0.14 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 71 Resp: 3159

Ion	Ratio	Lower	Upper
71	100		
56	348.0	264.6	324.6#
85	0.0	0.0	45.3

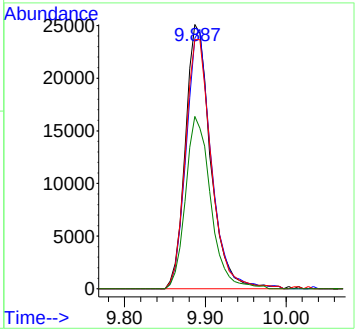


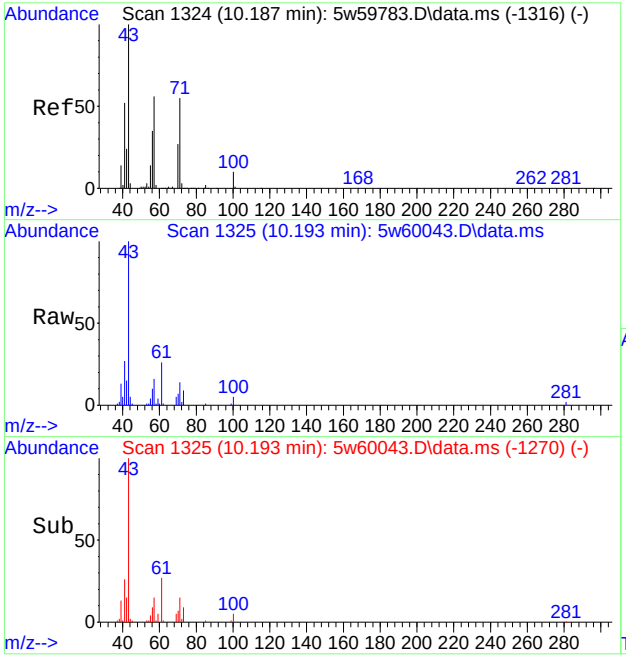


#55
TRICHLOROETHYLENE
Concen: 0.93 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 95 Resp: 54609

Ion	Ratio	Lower	Upper
95	100		
132	96.9	69.0	129.0
130	96.8	70.6	130.6
97	65.0	34.6	94.6

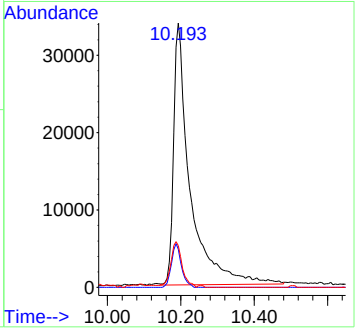


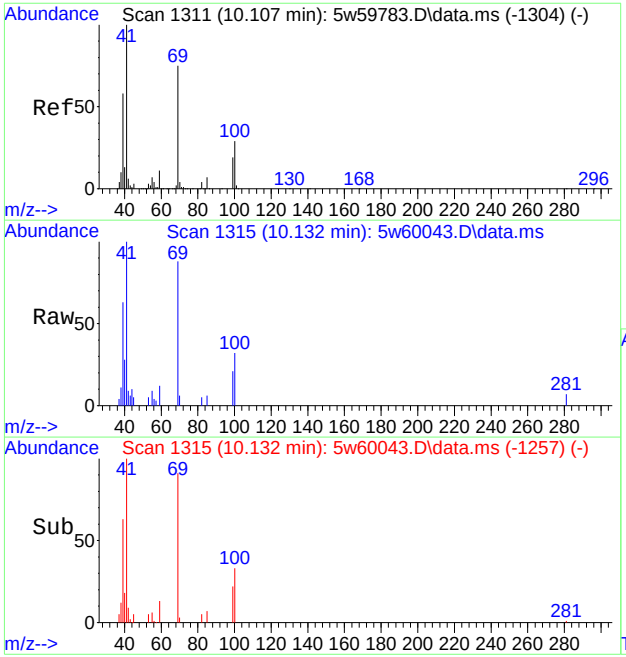


#62
HEPTANE
Concen: 1.60 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 43 Resp: 106263

Ion	Ratio	Lower	Upper
43	100		
71	10.0	24.5	84.5#
57	11.9	26.2	86.2#

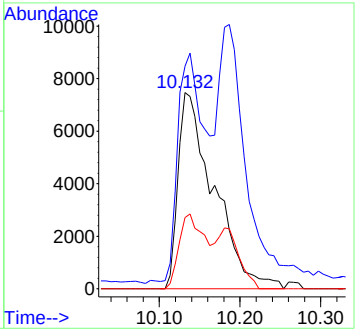


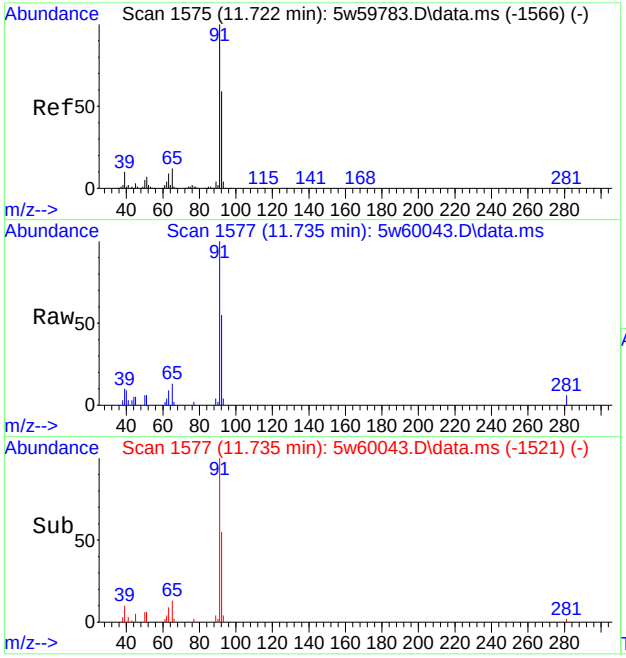


#63
METHYL METHACRYLATE
Concen: 0.61 PPBV
RT: 10.132 min Scan# 1315
Delta R.T. 0.025 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 69 Resp: 23041

Ion	Ratio	Lower	Upper
69	100		
41	95.9	95.3	155.3
100	47.1	6.3	66.3

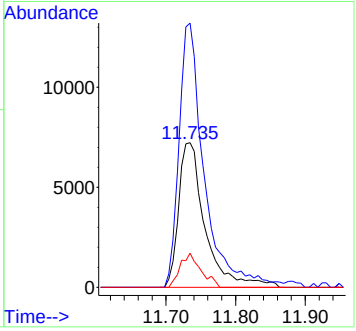


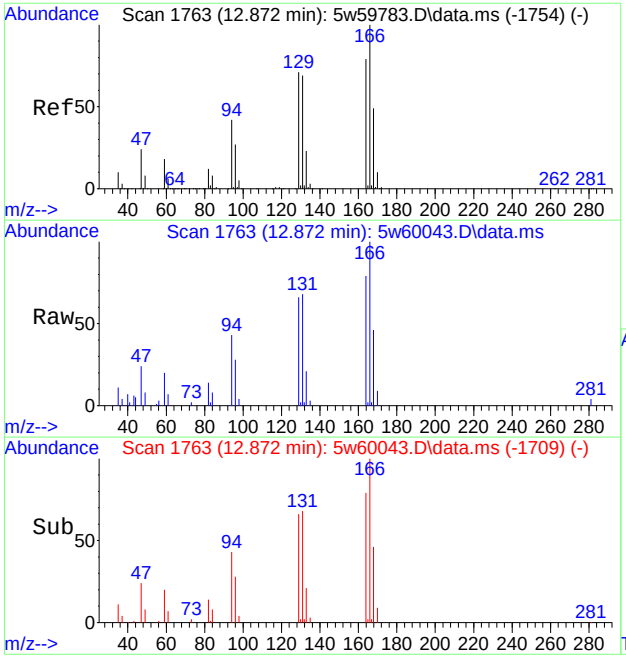


#66
TOLUENE
Concen: 0.22 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion: 92 Resp: 19149

Ion	Ratio	Lower	Upper
92	100		
91	175.9	140.1	200.1
65	18.5	0.0	53.1

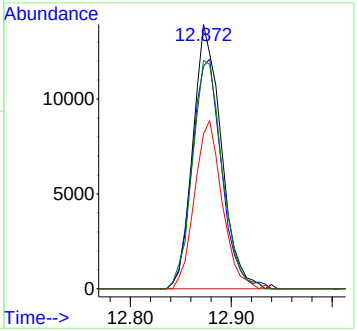


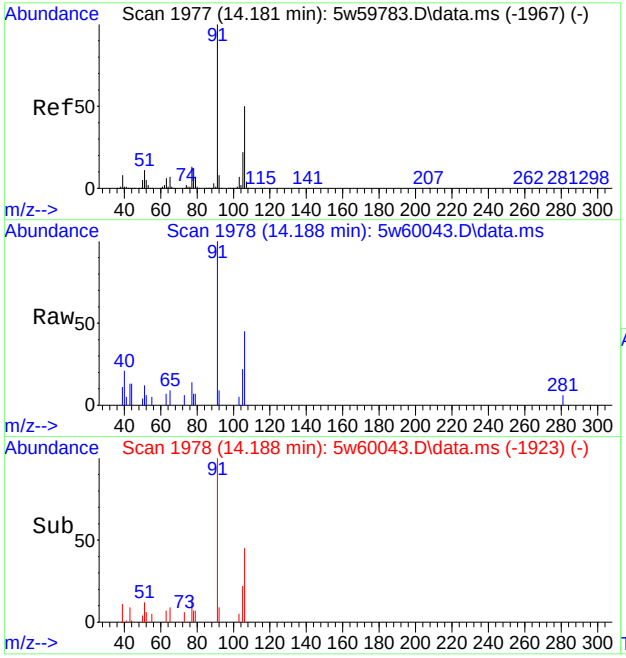


#73
TETRACHLOROETHYLENE
Concen: 0.46 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion:164 Resp: 27327

Ion	Ratio	Lower	Upper
164	100		
129	90.1	59.7	119.7
168	61.9	32.2	92.2
131	90.2	57.8	117.8

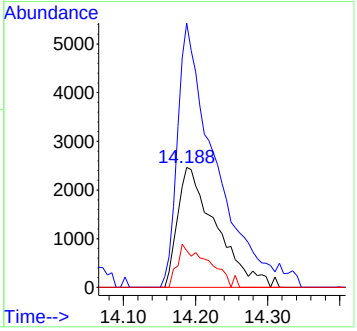




#80
m,p-XYLENE
Concen: 0.14 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w60043.D
Acq: 25 Nov 2025 6:32 pm

Tgt Ion:106 Resp: 9197

Ion	Ratio	Lower	Upper
106	100		
91	220.3	171.0	231.0
77	30.6	0.0	56.7



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\11. November\11-27-2025\V5W2302 hw\
Data File : 5w60048.D
Acq On : 25 Nov 2025 9:36 pm
Operator : benk
Sample : je23793-1 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 29 03:05:32 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

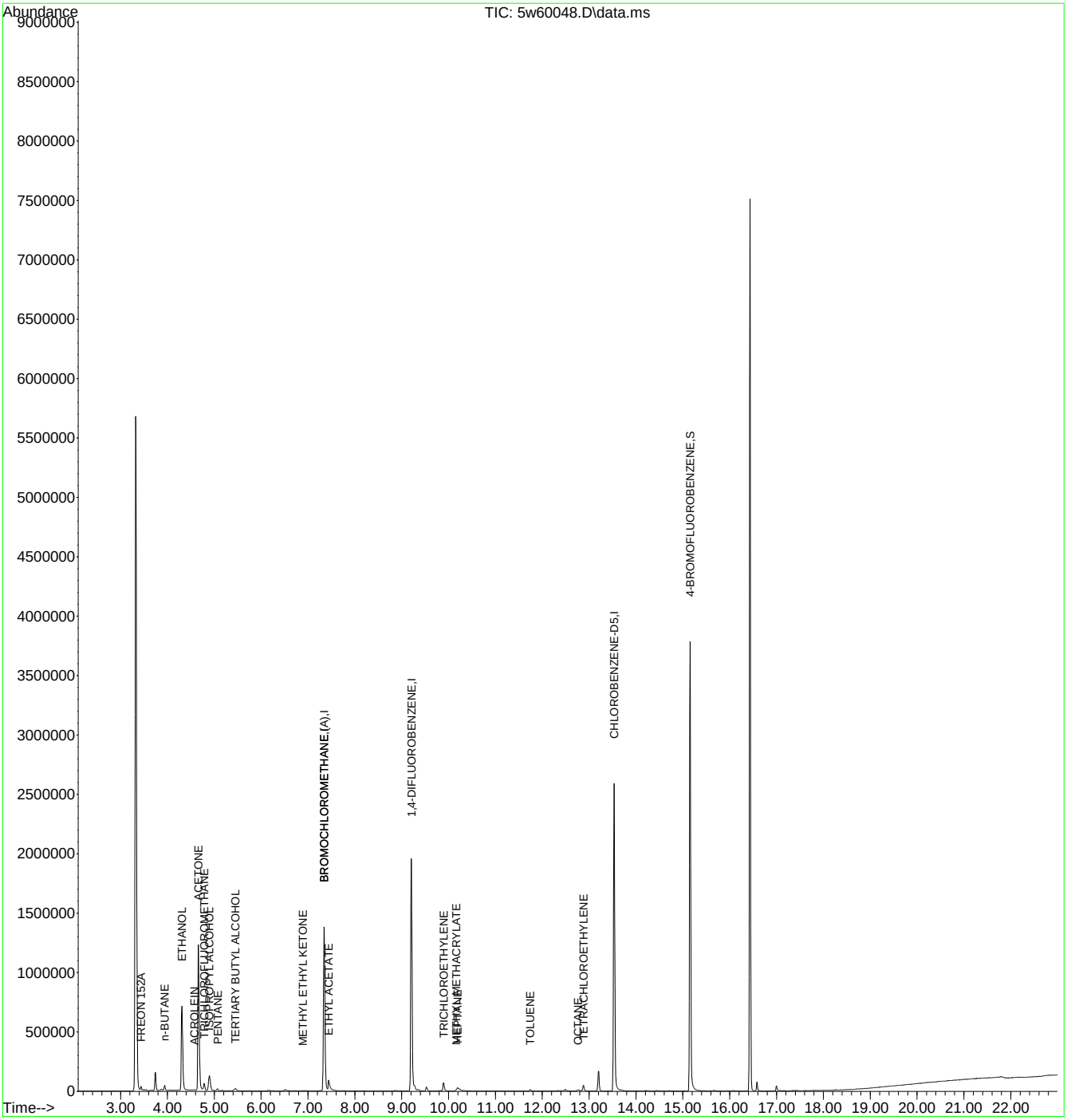
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.342	128	443041	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.208	114	1774355	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	912757	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.342	128	443190	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1283824	11.26	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 112.60%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	14785	0.4500	PPBV	94
13) n-BUTANE	3.940	43	35581	0.8427	PPBV	97
18) ACROLEIN	4.577	56	2912	0.2124	PPBV #	56
21) TRICHLOROFLUOROMETHANE	4.785	101	43775	0.4042	PPBV	98
22) ISOPROPYL ALCOHOL	4.895	45	235977	2.7162	PPBV	91
23) ACETONE	4.662	58	615850	35.4421	PPBV #	83
24) PENTANE	5.072	42	8094	0.1793	PPBV	98
28) ETHANOL	4.308	45	934280	64.1888	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.452	59	29776	0.3352	PPBV	90
41) METHYL ETHYL KETONE	6.889	72	1893	0.1106	PPBV #	52
44) ETHYL ACETATE	7.440	61	22775	1.7417	PPBV	96
55) TRICHLOROETHYLENE	9.893	95	26359	0.4353	PPBV	99
62) HEPTANE	10.193	43	7916	0.1157	PPBV	82
63) METHYL METHACRYLATE	10.162	69	10342	0.2669	PPBV #	1
66) TOLUENE	11.741	92	8728	0.0982	PPBV	91
73) TETRACHLOROETHYLENE	12.878	164	12932	0.2077	PPBV	97
76) OCTANE	12.762	43	22047	0.2543	PPBV #	38

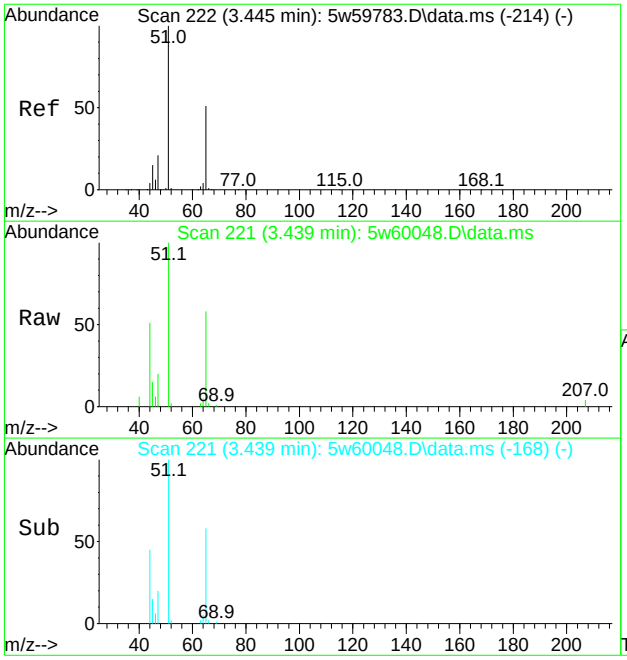
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\11. November\11-27-2025\V5W2302 hw\
Data File : 5w60048.D
Acq On : 25 Nov 2025 9:36 pm
Operator : benk
Sample : je23793-1 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 29 03:05:32 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

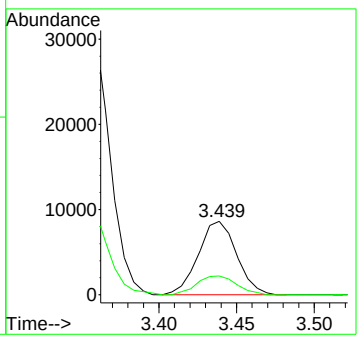


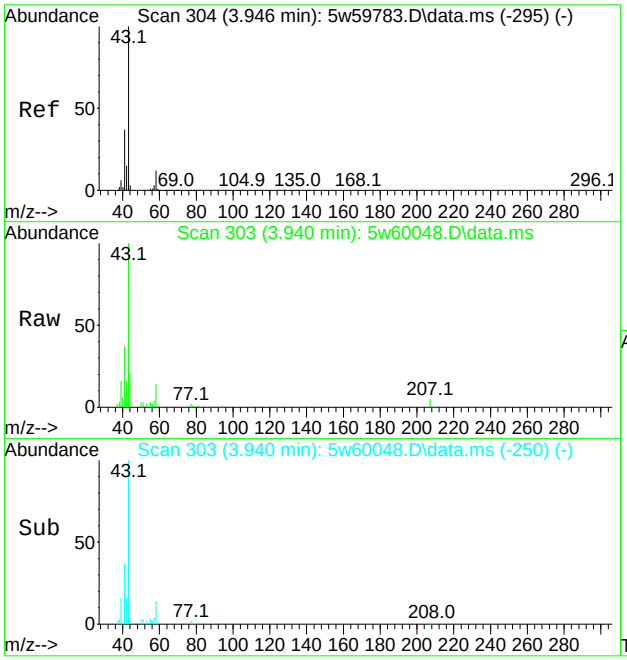


#3
FREON 152A
Concen: 0.4500 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 65 Resp: 14785

Ion	Ratio	Lower	Upper
65	100		
45	26.7	0.0	60.0

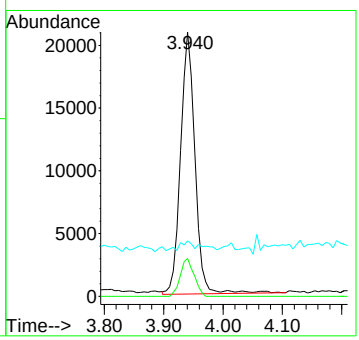


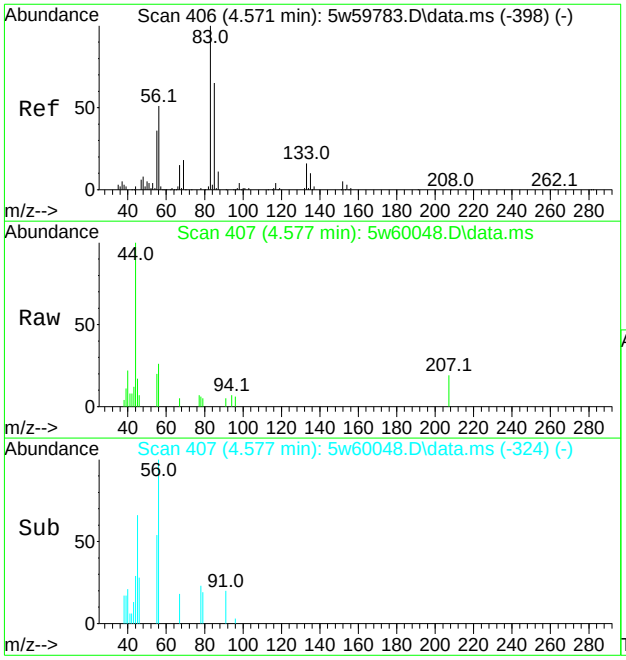


#13
n-BUTANE
Concen: 0.8427 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 43 Resp: 35581

Ion	Ratio	Lower	Upper
43	100		
58	13.9	0.0	42.6
44	4.6	0.0	34.9

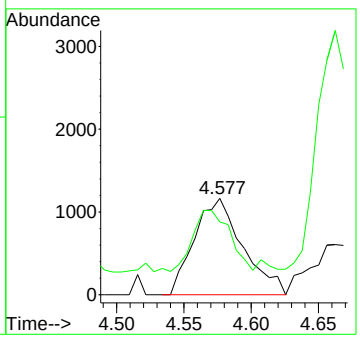


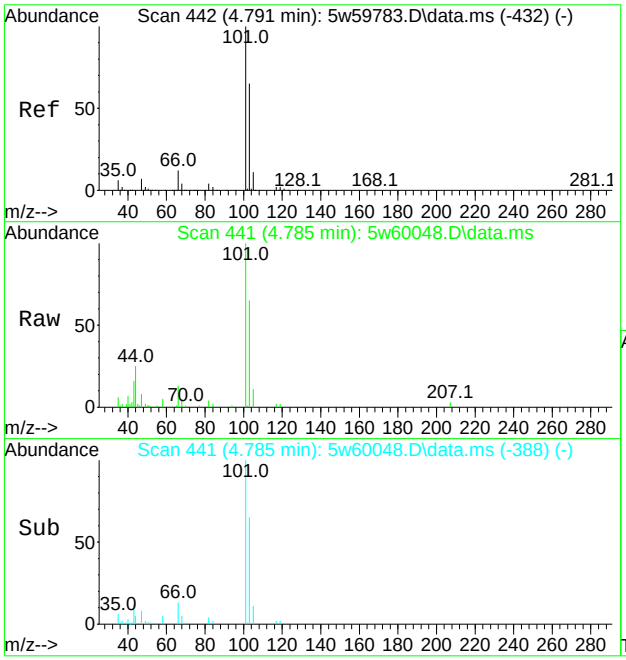


#18
ACROLEIN
Concen: 0.2124 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 56 Resp: 2912

Ion	Ratio	Lower	Upper
56	100		
55	101.6	46.6	86.6#

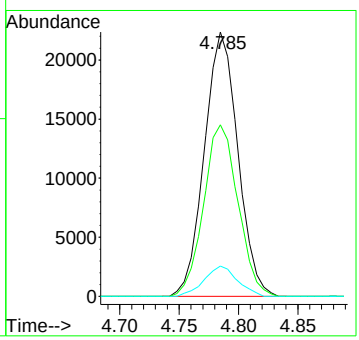


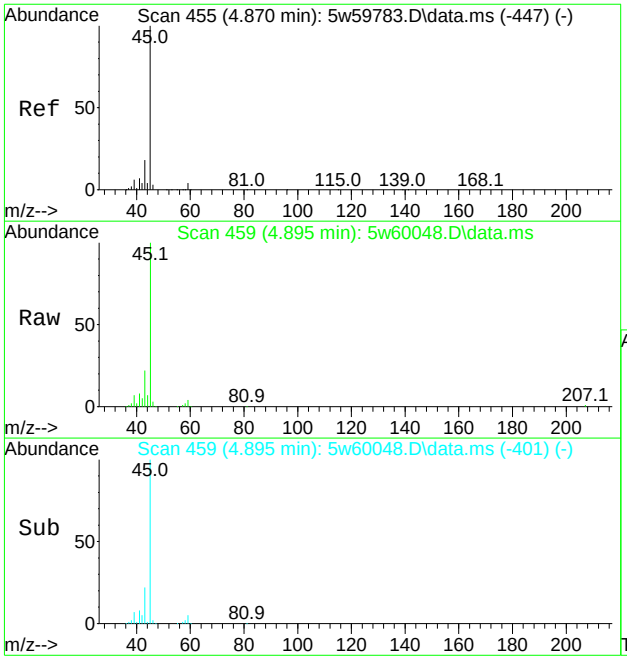


#21
TRICHLOROFLUOROMETHANE
Concen: 0.4042 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion:101 Resp: 43775

Ion	Ratio	Lower	Upper
101	100		
103	66.5	35.0	95.0
105	11.4	0.0	40.7

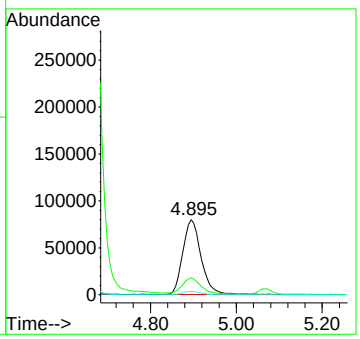


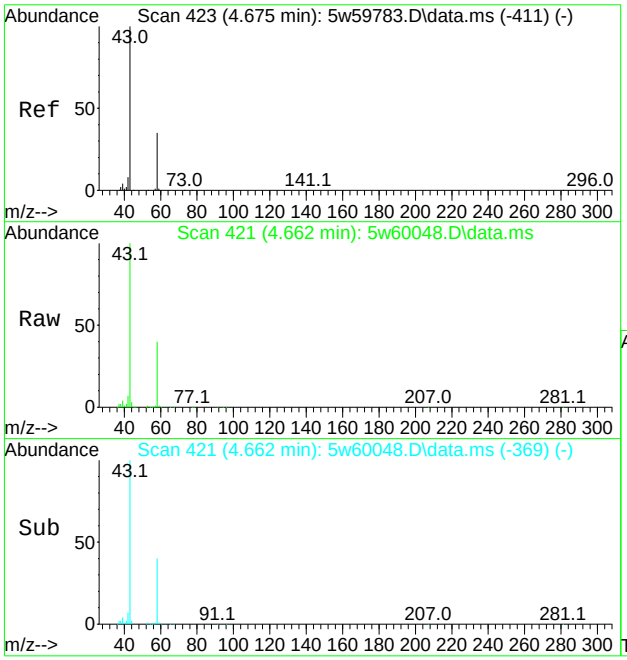


#22
ISOPROPYL ALCOHOL
Concen: 2.7162 PPBV
RT: 4.895 min Scan# 459
Delta R.T. 0.025 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 45 Resp: 235977

Ion	Ratio	Lower	Upper
45	100		
43	22.3	0.0	47.8
59	4.5	0.0	34.1

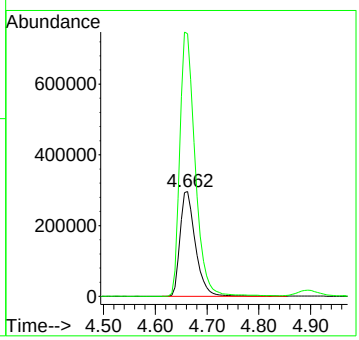


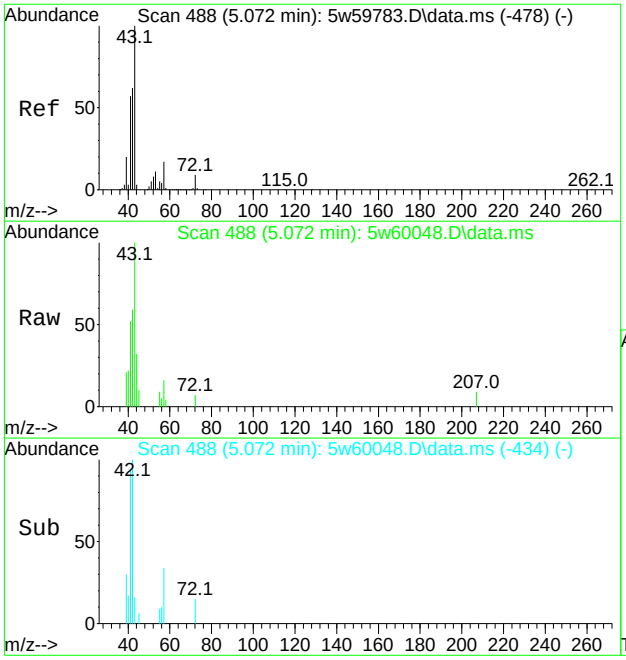


#23
ACETONE
Concen: 35.4421 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 58 Resp: 615850

Ion	Ratio	Lower	Upper
58	100		
43	250.8	252.3	312.3#

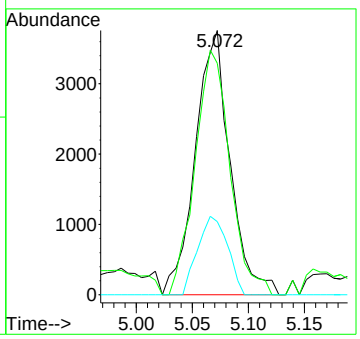


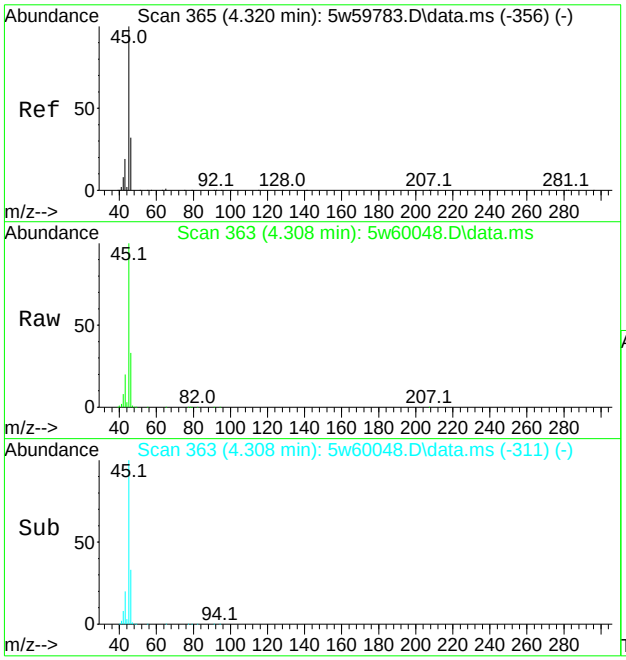


#24
PENTANE
Concen: 0.1793 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 42 Resp: 8094

Ion	Ratio	Lower	Upper
42	100		
41	93.1	62.3	122.3
57	25.5	0.0	57.7

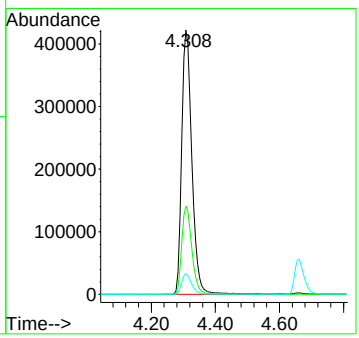


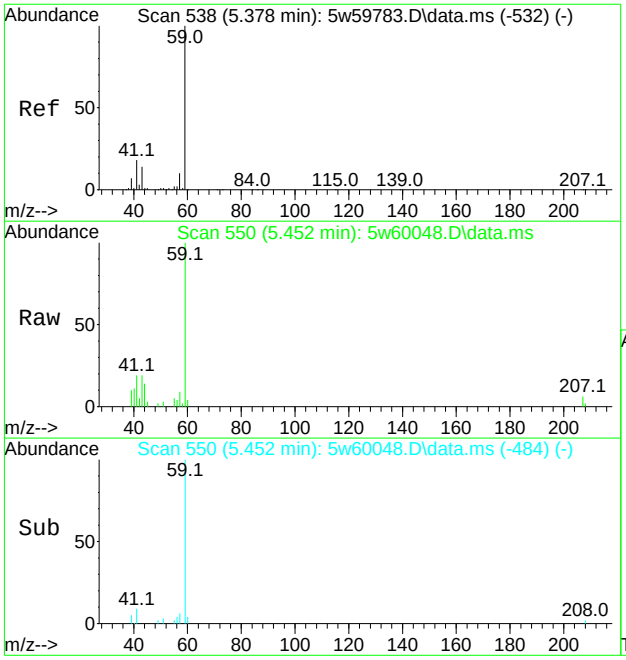


#28
ETHANOL
Concen: 64.1888 PPBV
RT: 4.308 min Scan# 363
Delta R.T. -0.012 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 45 Resp: 934280

Ion	Ratio	Lower	Upper
45	100		
46	33.4	2.0	62.0
42	7.8	0.0	38.5

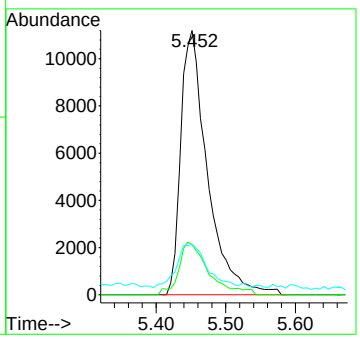


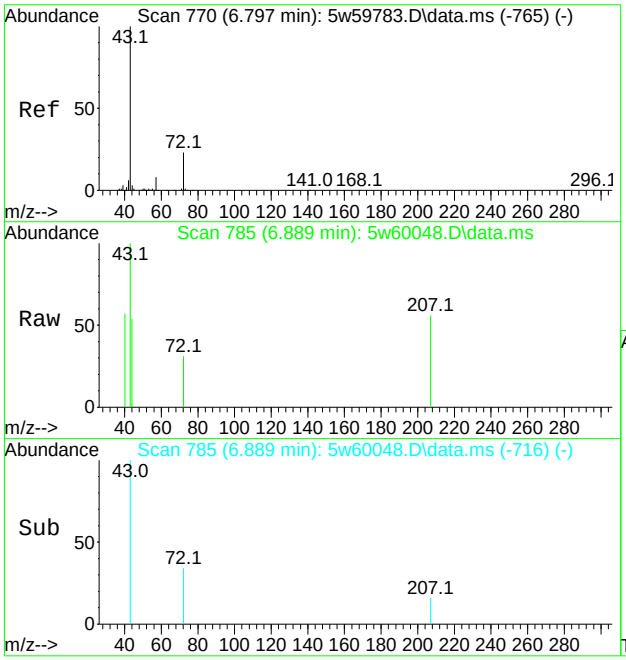


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.3352 PPBV
RT: 5.452 min Scan# 550
Delta R.T. 0.074 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 59 Resp: 29776

Ion	Ratio	Lower	Upper
59	100		
41	22.1	0.0	49.3
43	20.2	0.0	44.1

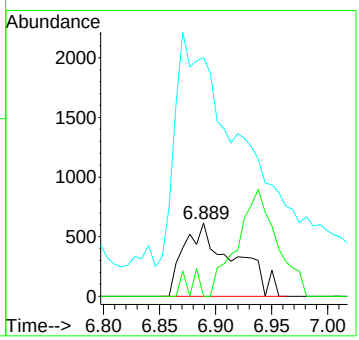


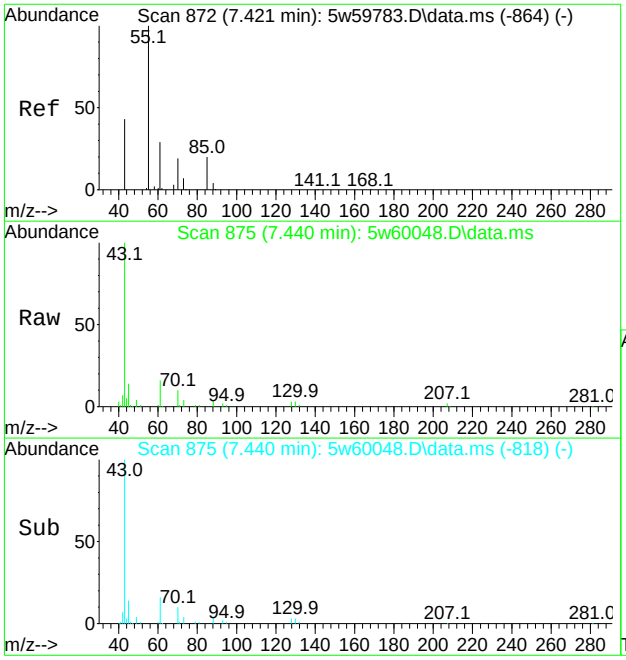


#41
METHYL ETHYL KETONE
Concen: 0.1106 PPBV
RT: 6.889 min Scan# 785
Delta R.T. 0.092 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 72 Resp: 1893

Ion	Ratio	Lower	Upper
72	100		
57	0.0	4.8	64.8#
43	325.2	415.9	475.9#

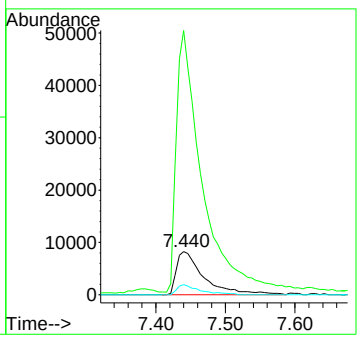


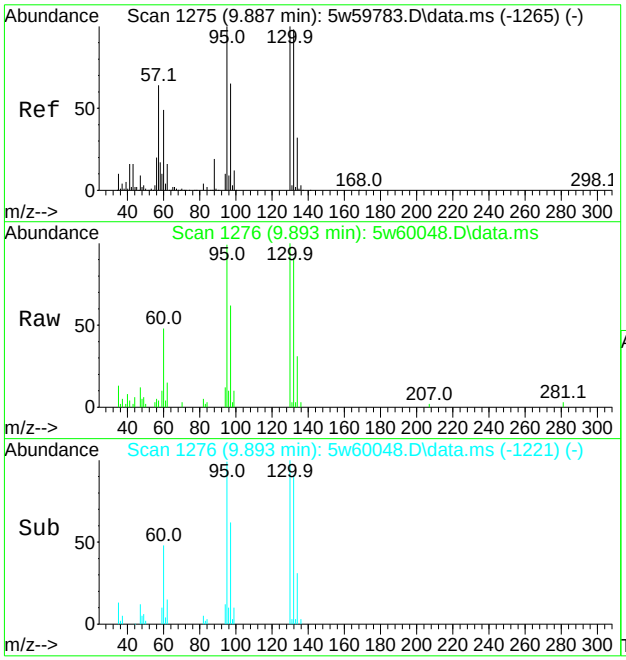


#44
ETHYL ACETATE
Concen: 1.7417 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.019 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 61 Resp: 22775

Ion	Ratio	Lower	Upper
61	100		
43	583.3	560.5	620.5
88	19.8	4.5	64.5

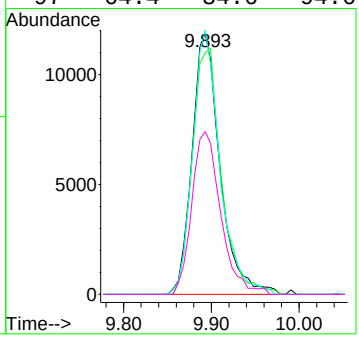


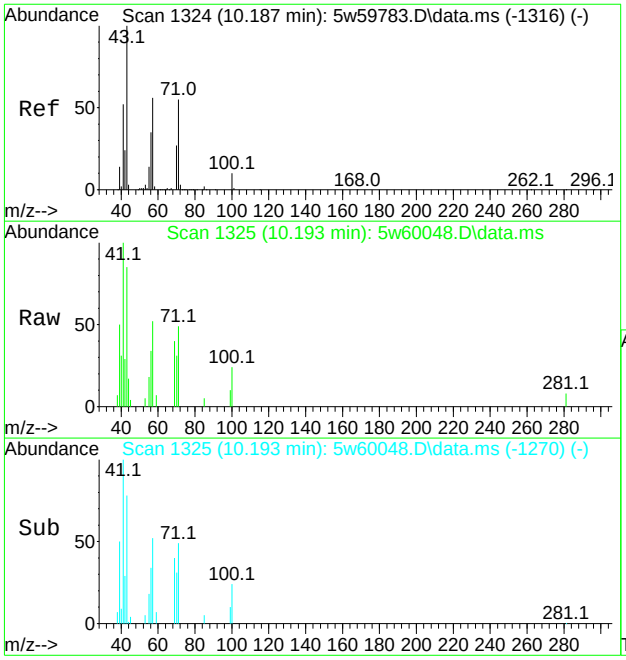


#55
TRICHLOROETHYLENE
Concen: 0.4353 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 95 Resp: 26359

Ion	Ratio	Lower	Upper
95	100		
132	97.7	69.0	129.0
130	98.3	70.6	130.6
97	64.4	34.6	94.6

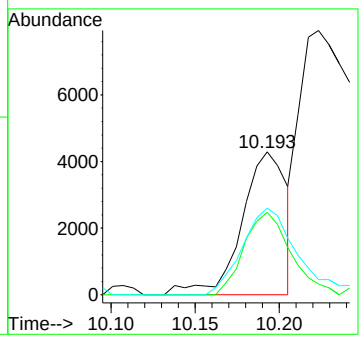


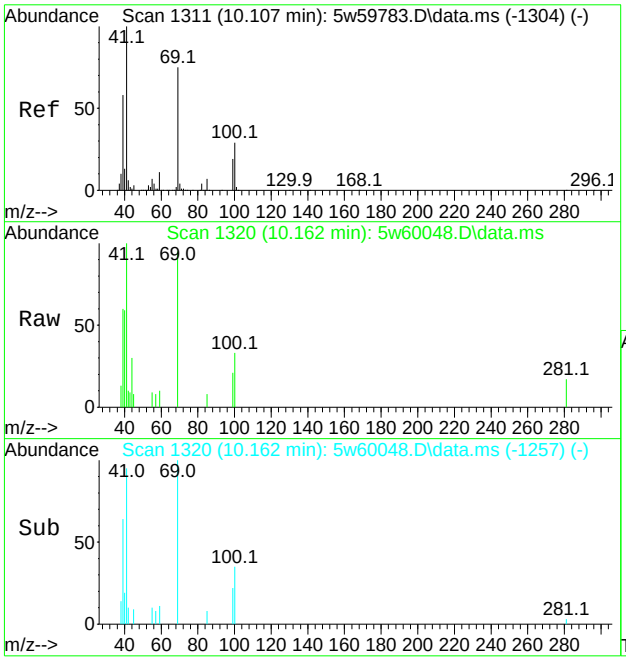


#62
HEPTANE
Concen: 0.1157 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 43 Resp: 7916

Ion	Ratio	Lower	Upper
43	100		
71	61.2	24.5	84.5
57	75.5	26.2	86.2

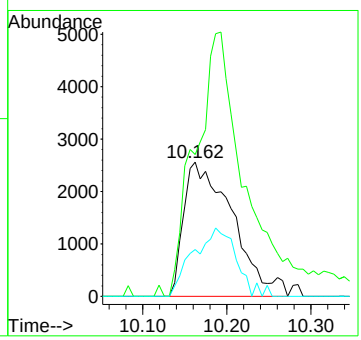


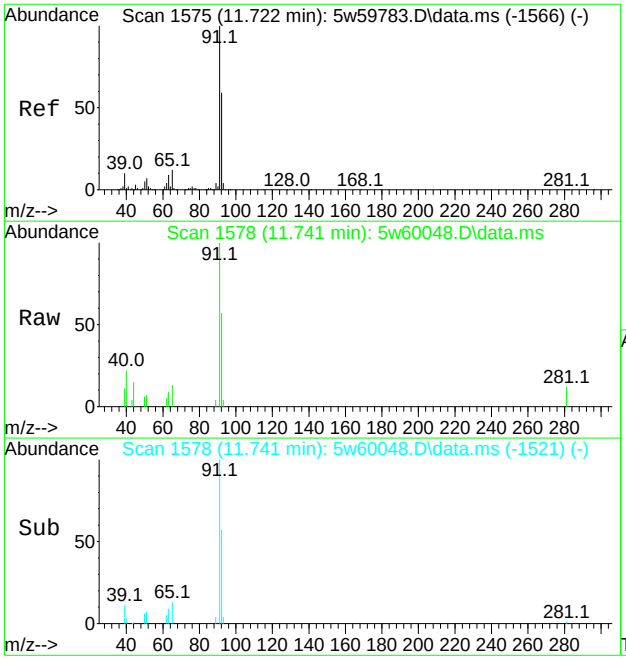


#63
METHYL METHACRYLATE
Concen: 0.2669 PPBV
RT: 10.162 min Scan# 1320
Delta R.T. 0.055 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 69 Resp: 10342

Ion	Ratio	Lower	Upper
69	100		
41	0.0	95.3	155.3#
100	0.0	6.3	66.3#

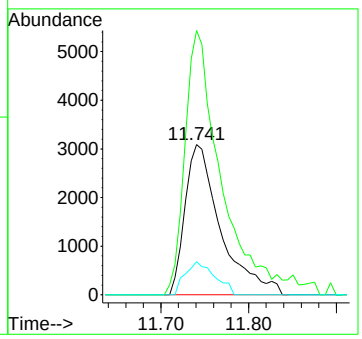


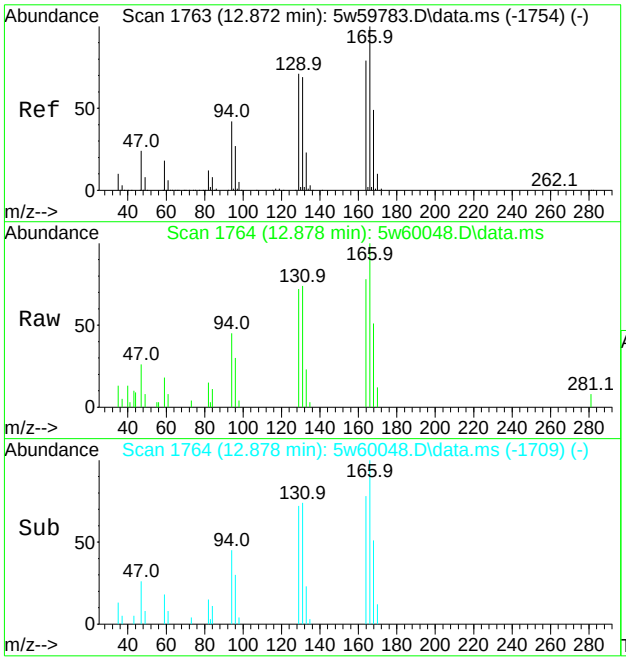


#66
TOLUENE
Concen: 0.0982 PPBV
RT: 11.741 min Scan# 1578
Delta R.T. 0.019 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 92 Resp: 8728

Ion	Ratio	Lower	Upper
92	100		
91	182.1	140.1	200.1
65	18.3	0.0	53.1

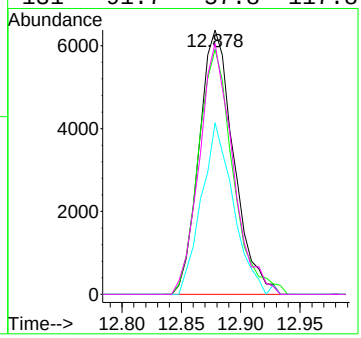


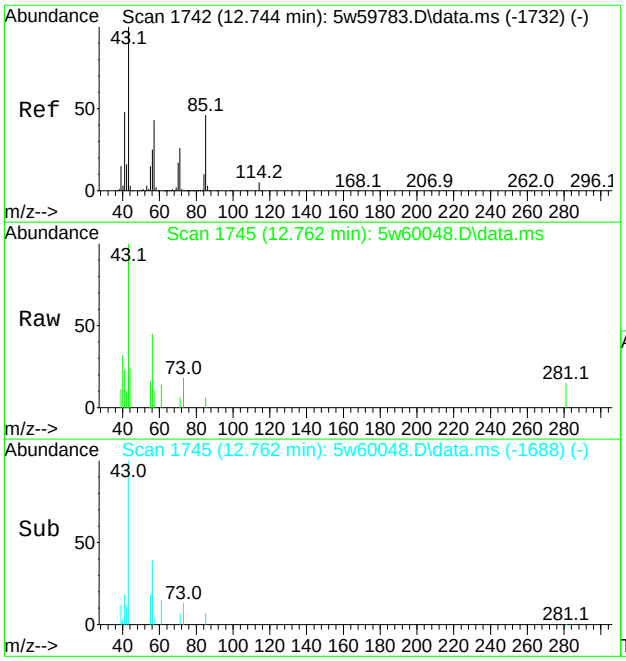


#73
TETRACHLOROETHYLENE
Concen: 0.2077 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion:164 Resp: 12932

Ion	Ratio	Lower	Upper
164	100		
129	92.3	59.7	119.7
168	60.1	32.2	92.2
131	91.7	57.8	117.8

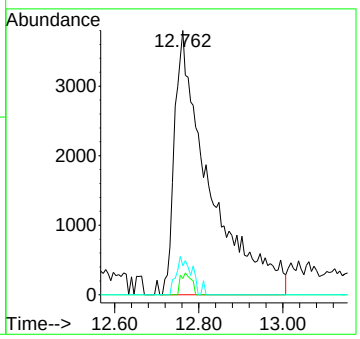




#76
OCTANE
Concen: 0.2543 PPBV
RT: 12.762 min Scan# 1745
Delta R.T. 0.018 min
Lab File: 5w60048.D
Acq: 25 Nov 2025 9:36 pm

Tgt Ion: 43 Resp: 22047

Ion	Ratio	Lower	Upper
43	100		
85	2.5	14.6	74.6#
57	6.0	13.7	73.7#



Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60016.D
Acq On : 24 Nov 2025 10:19 pm
Operator : benk
Sample : je23793-2
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 27 01:32:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

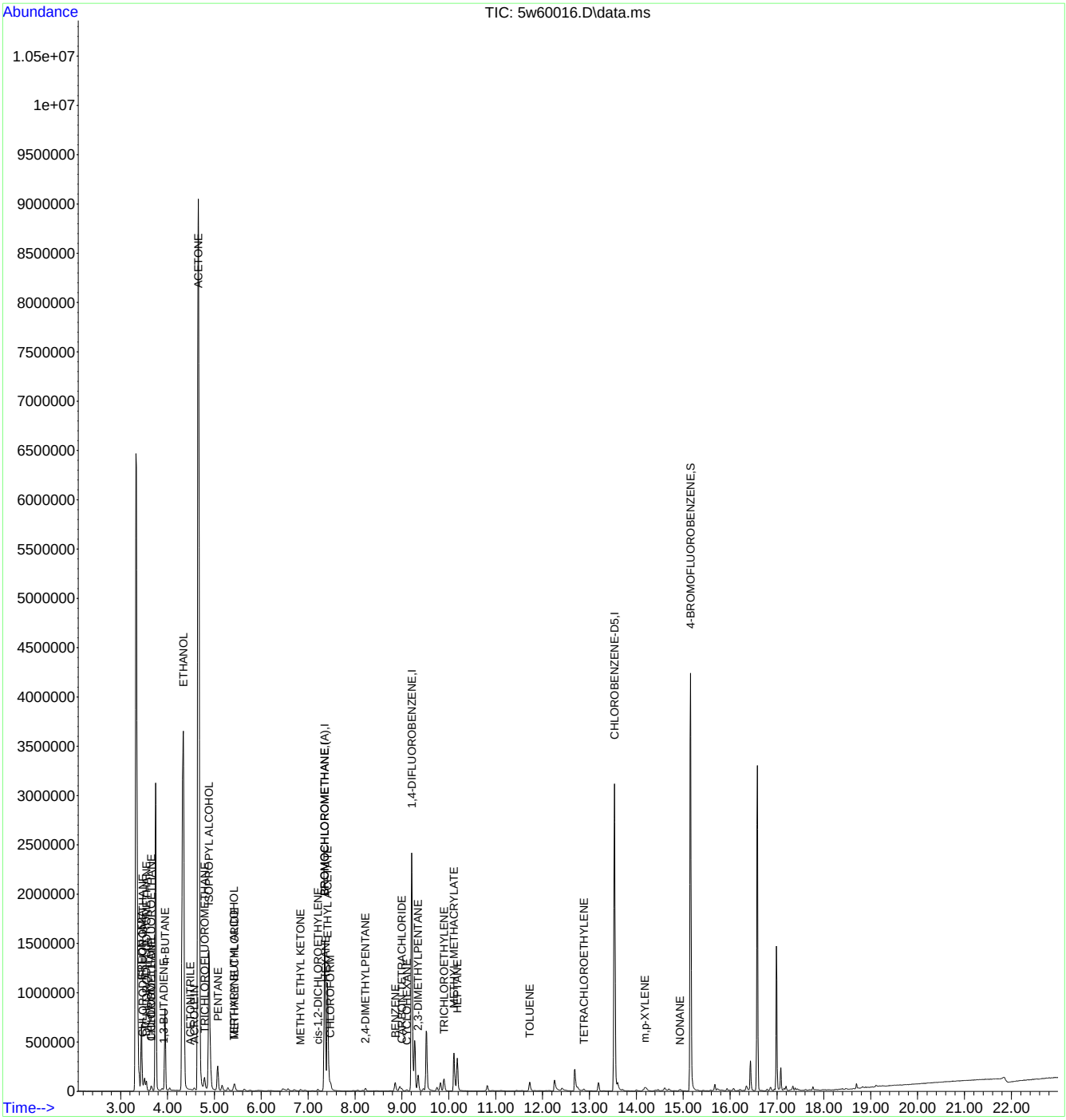
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	481013	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2162967	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1070422	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	481013	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1419482	10.61	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.10%				
Target Compounds							Qvalue
3) FREON 152A	3.445	65	295899	8.2945	PPBV		95
4) CHLORODIFLUOROMETHANE	3.476	67	8438	0.5655	PPBV		68
6) DICHLORODIFLUOROMETHANE	3.549	85	87121	0.6329	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	23001	0.2063	PPBV	#	53
10) CHLOROMETHANE	3.659	52	10022	0.6629	PPBV		97
12) 1,3-BUTADIENE	3.910	54	5306	0.1891	PPBV	#	3
13) n-BUTANE	3.947	43	691561	15.0851	PPBV		97
17) ACETONITRILE	4.491	41	4363	0.1666	PPBV	#	96
18) ACROLEIN	4.571	56	20177	1.3558	PPBV		91
21) TRICHLOROFLUOROMETHANE	4.791	101	97682	0.8307	PPBV		99
22) ISOPROPYL ALCOHOL	4.883	45	2314950	24.5426	PPBV		97
23) ACETONE	4.656	58	5046008	267.4725	PPBV		92
24) PENTANE	5.072	42	104716	2.1368	PPBV		98
28) ETHANOL	4.338	45	6332198	400.7042	PPBV		99
31) METHYLENE CHLORIDE	5.421	84	25855	0.5357	PPBV		91
35) TERTIARY BUTYL ALCOHOL	5.409	59	49374	0.5119	PPBV		67
38) HEXANE	7.379	57	19952	0.2598	PPBV	#	33
41) METHYL ETHYL KETONE	6.834	72	8844	0.4760	PPBV	#	80
42) cis-1,2-DICHLOROETHYLENE	7.207	96	9815	0.1665	PPBV		97
44) ETHYL ACETATE	7.409	61	235639	16.5976	PPBV		95
46) CHLOROFORM	7.477	83	43888	0.4104	PPBV		97
47) 2,4-DIMETHYLPENTANE	8.223	57	14757	0.1698	PPBV		96
49) CARBON TETRACHLORIDE	8.994	117	12832	0.1059	PPBV		99
52) BENZENE	8.859	78	82636	0.5703	PPBV		98
53) CYCLOHEXANE	9.104	84	5687	0.0982	PPBV		87
54) 2,3-DIMETHYLPENTANE	9.349	71	28495	0.9741	PPBV	#	92
55) TRICHLOROETHYLENE	9.893	95	28580	0.3872	PPBV		98
62) HEPTANE	10.181	43	130978	1.5709	PPBV		91
63) METHYL METHACRYLATE	10.107	69	182453	3.8633	PPBV		87
66) TOLUENE	11.722	92	50737	0.4684	PPBV		97
73) TETRACHLOROETHYLENE	12.878	164	4666	0.0639	PPBV		98
80) m,p-XYLENE	14.182	106	16474	0.2037	PPBV		98
83) NONANE	14.934	43	17685	0.1719	PPBV	#	74

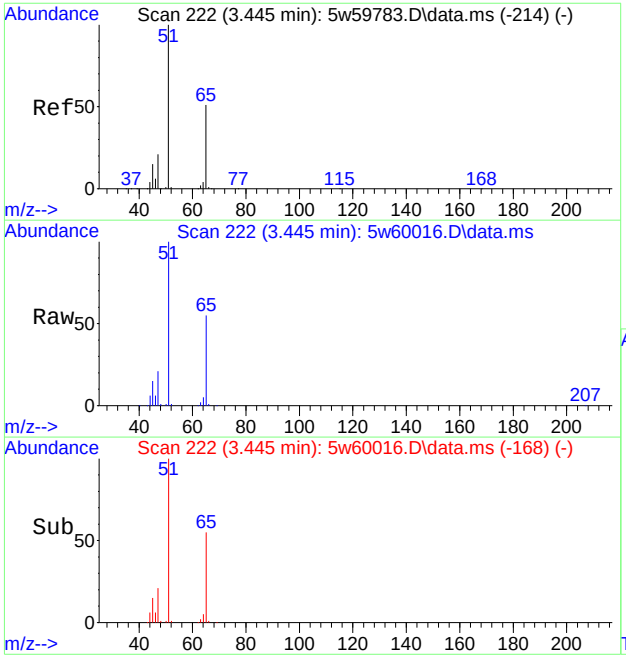
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60016.D
Acq On : 24 Nov 2025 10:19 pm
Operator : benk
Sample : je23793-2
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 27 01:32:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

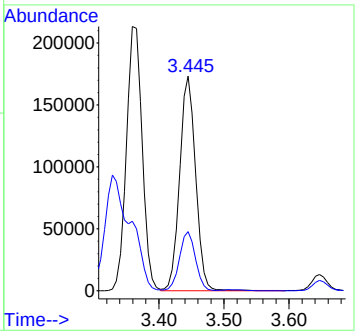


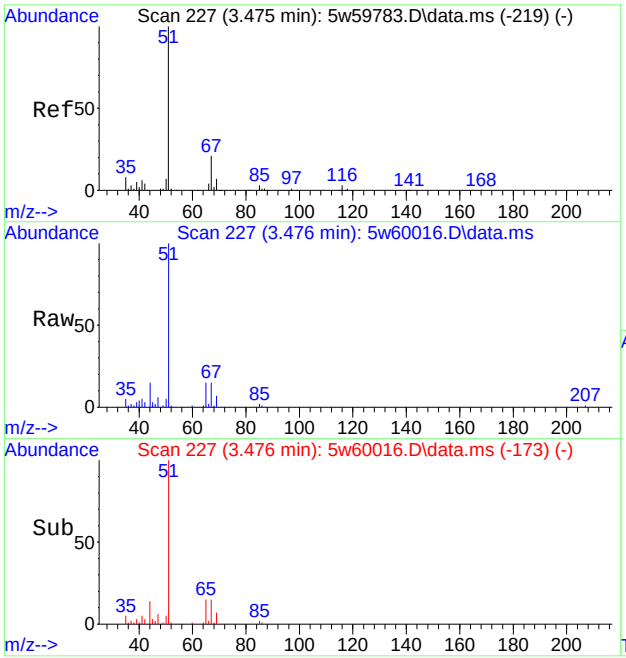


#3
FREON 152A
Concen: 8.29 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 65 Resp: 295899

Ion	Ratio	Lower	Upper
65	100		
45	27.5	0.0	60.0

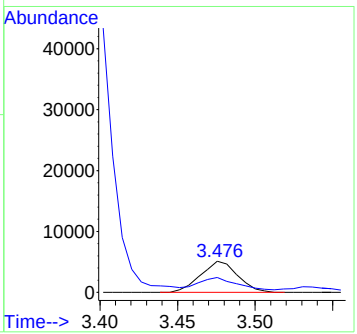


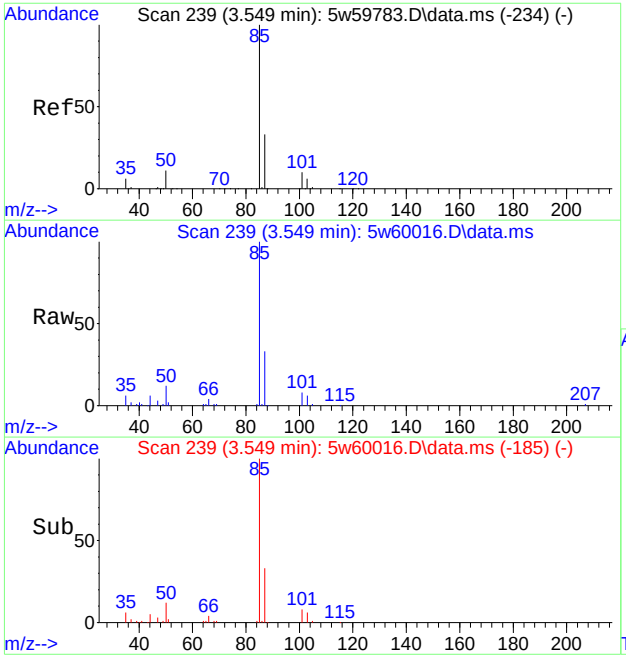


#4
CHLORODIFLUOROMETHANE
Concen: 0.57 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 67 Resp: 8438

Ion	Ratio	Lower	Upper
67	100		
69	48.4	1.0	61.0

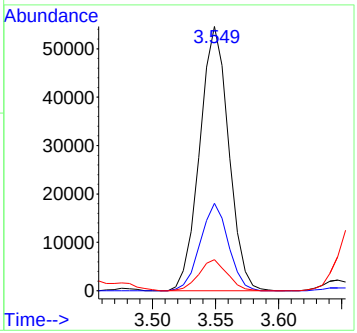


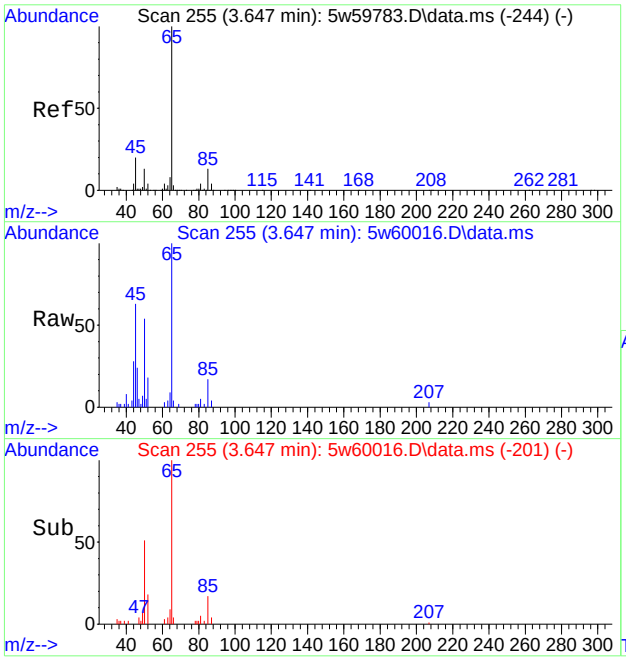


#6
DICHLORODIFLUOROMETHANE
Concen: 0.63 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 85 Resp: 87121

Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.5	62.5
50	11.6	0.0	41.7

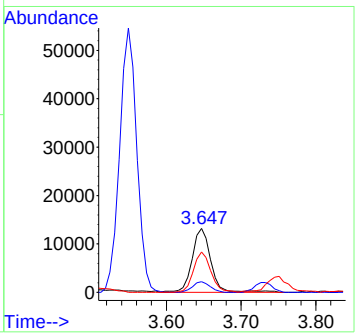


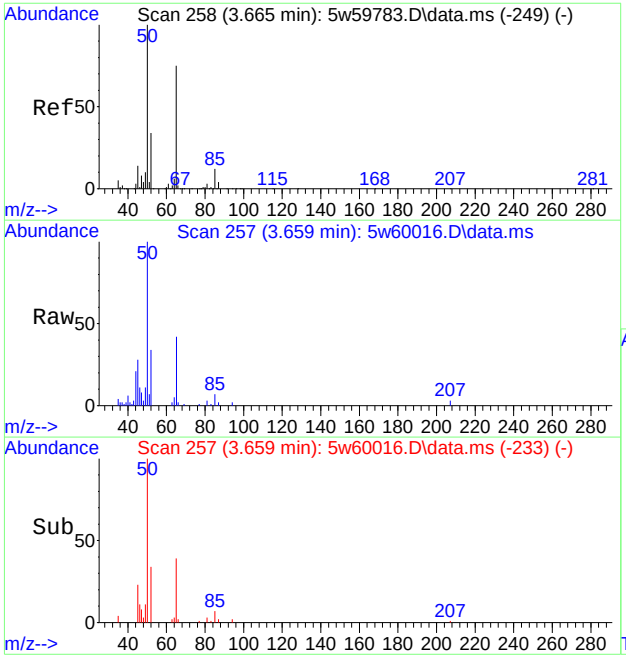


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.21 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 65 Resp: 23001

Ion	Ratio	Lower	Upper
65	100		
85	15.6	11.5	21.3
45	58.6	14.0	26.0#

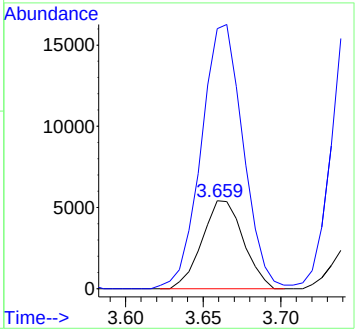


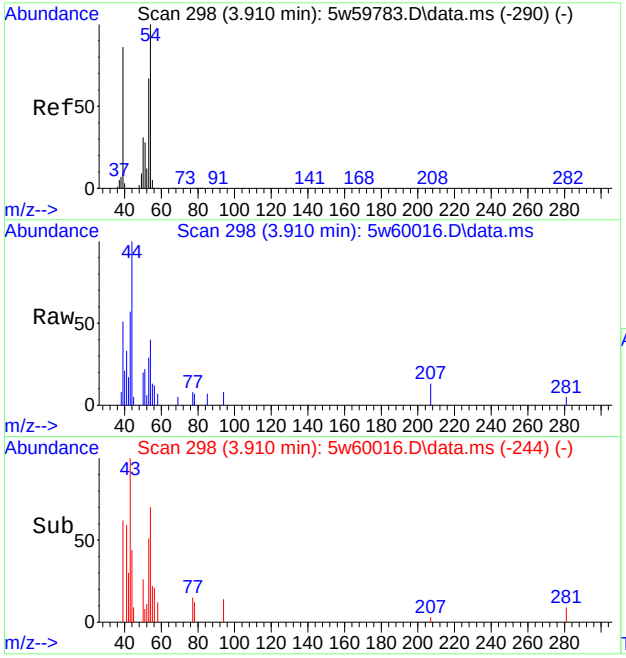


#10
CHLOROMETHANE
Concen: 0.66 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 52 Resp: 10022

Ion	Ratio	Lower	Upper
52	100		
50	291.5	267.9	327.9

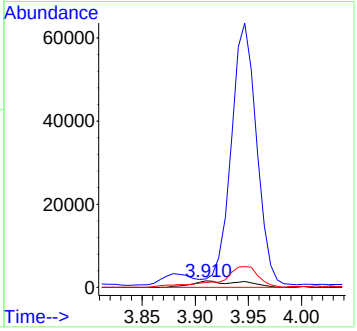


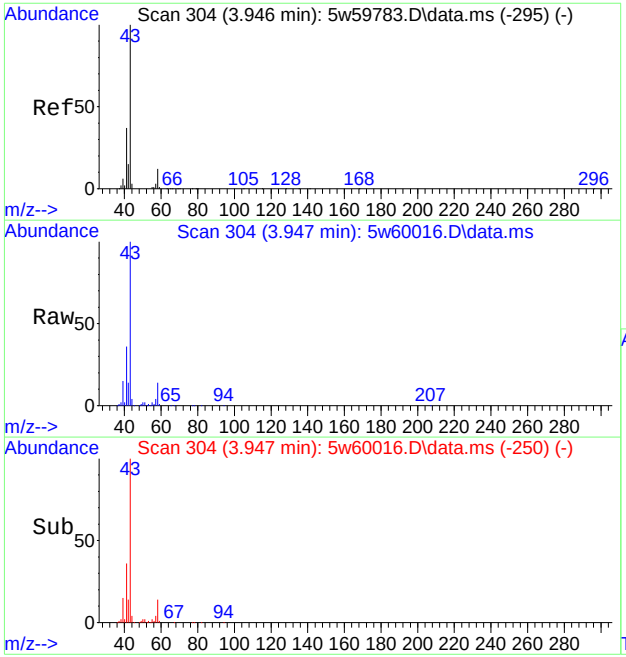


#12
1,3-BUTADIENE
Concen: 0.19 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 54 Resp: 5306

Ion	Ratio	Lower	Upper
54	100		
39	0.0	82.0	142.0#
53	0.0	40.2	100.2#

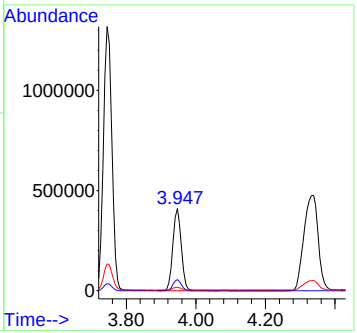


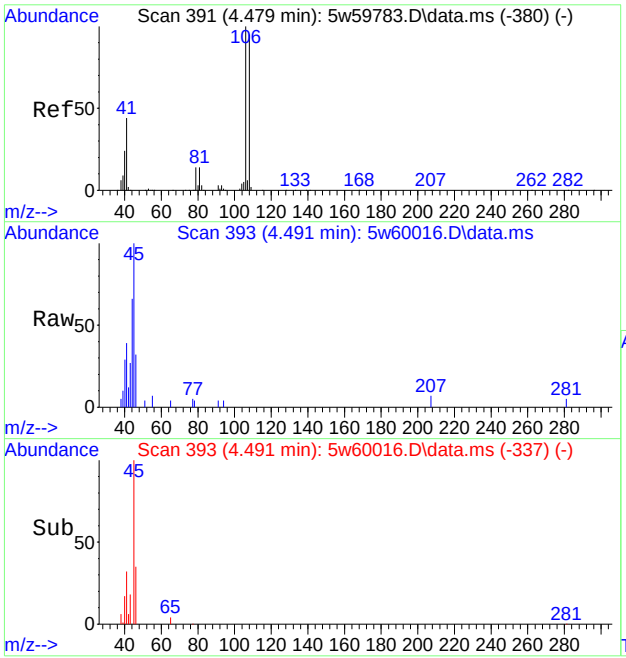


#13
n-BUTANE
Concen: 15.09 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 43 Resp: 691561

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	3.4	0.0	34.9

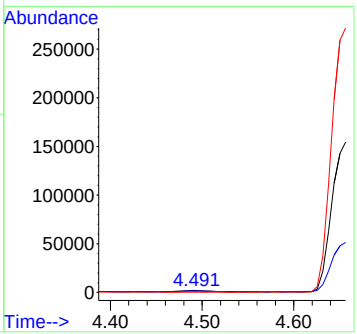


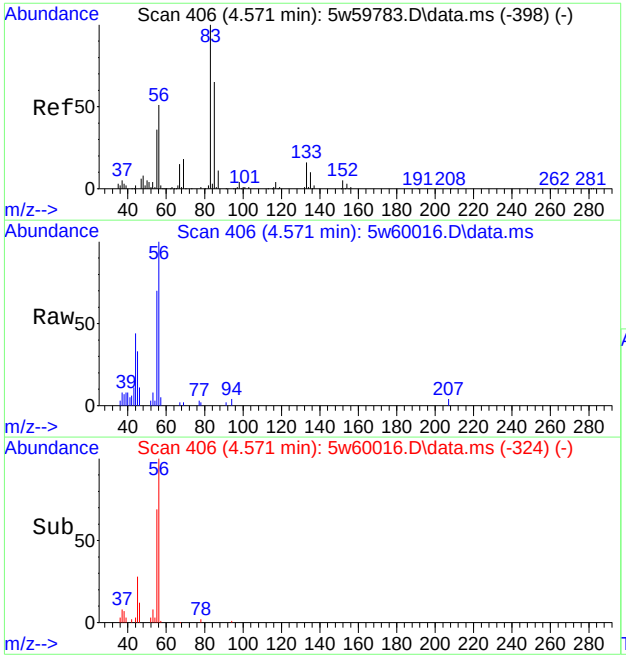


#17
ACETONITRILE
Concen: 0.17 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 41 Resp: 4363

Ion	Ratio	Lower	Upper
41	100		
40	53.6	37.9	70.5
39	13.0	13.4	24.8#

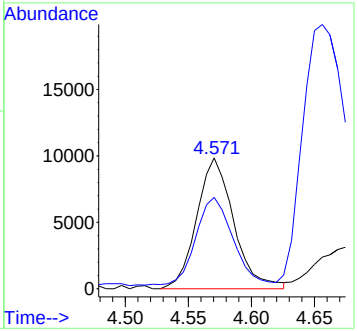


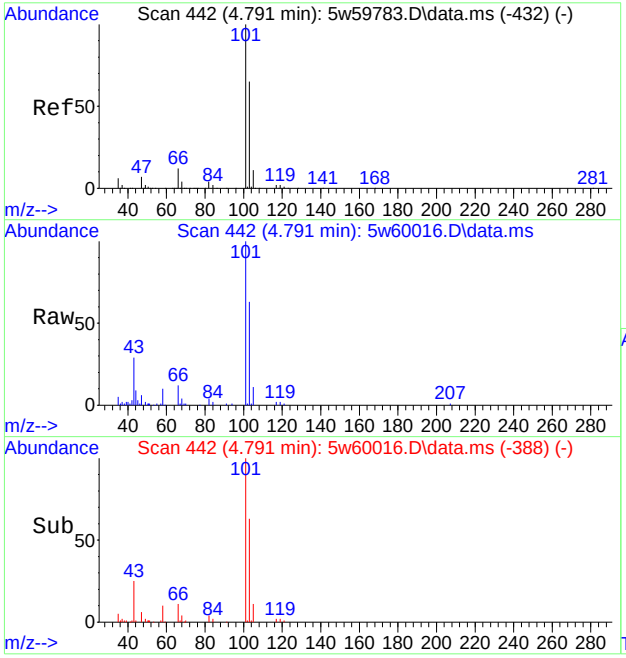


#18
ACROLEIN
Concen: 1.36 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 56 Resp: 20177

Ion	Ratio	Lower	Upper
56	100		
55	73.9	46.6	86.6

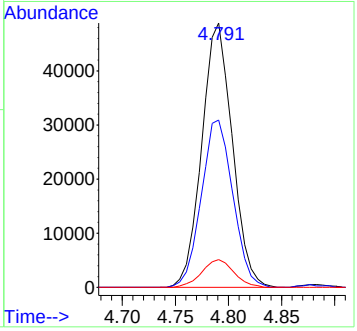


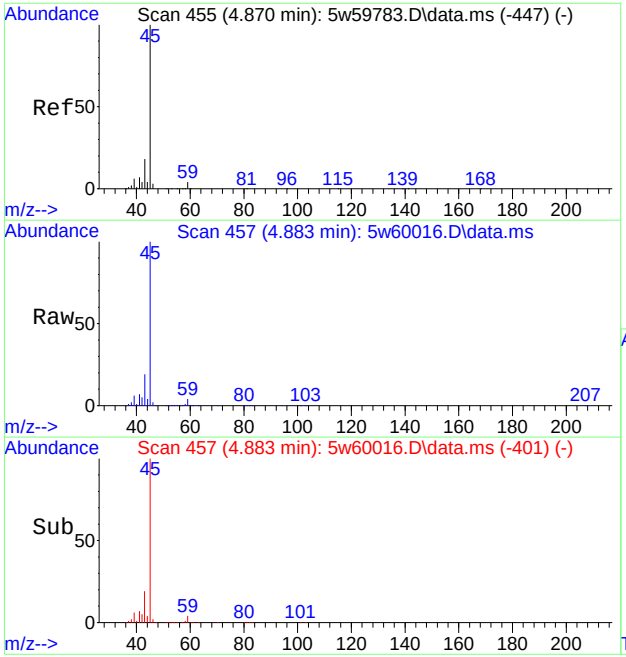


#21
TRICHLOROFLUOROMETHANE
Concen: 0.83 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion:101 Resp: 97682

Ion	Ratio	Lower	Upper
101	100		
103	65.3	35.0	95.0
105	11.1	0.0	40.7

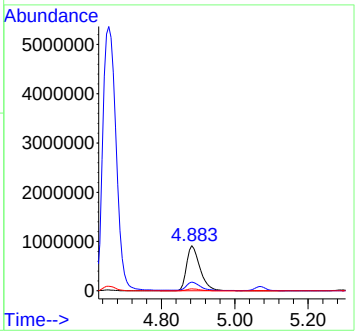


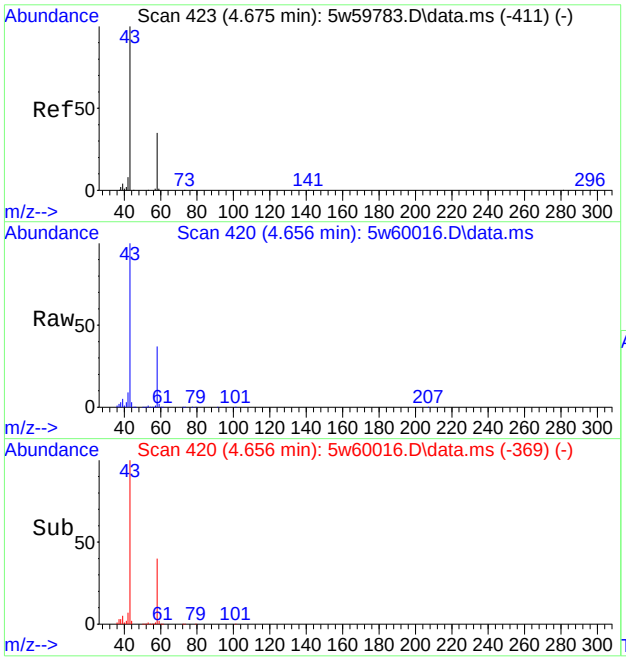


#22
ISOPROPYL ALCOHOL
Concen: 24.54 PPBV
RT: 4.883 min Scan# 457
Delta R.T. 0.013 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 45 Resp: 2314950

Ion	Ratio	Lower	Upper
45	100		
43	19.3	0.0	47.8
59	4.4	0.0	34.1

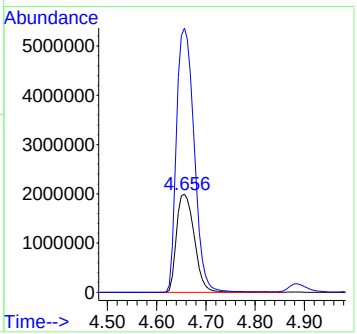


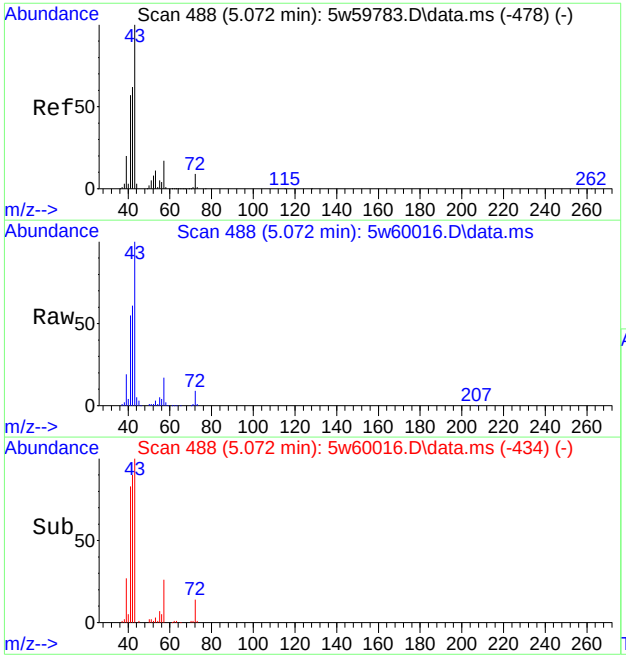


#23
ACETONE
Concen: 267.47 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 58 Resp: 5046008

Ion	Ratio	Lower	Upper
58	100		
43	267.1	252.3	312.3

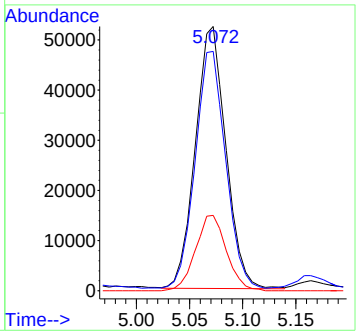


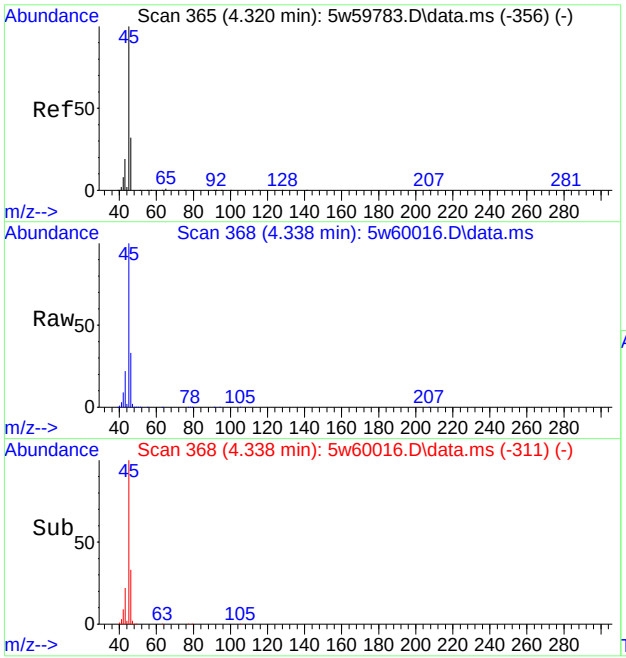


#24
PENTANE
Concen: 2.14 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 42 Resp: 104716

Ion	Ratio	Lower	Upper
42	100		
41	90.8	62.3	122.3
57	29.1	0.0	57.7

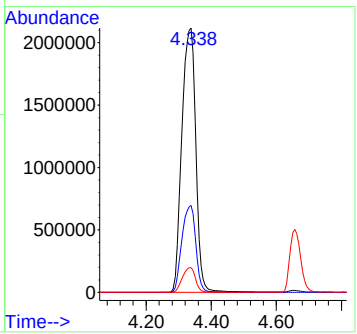


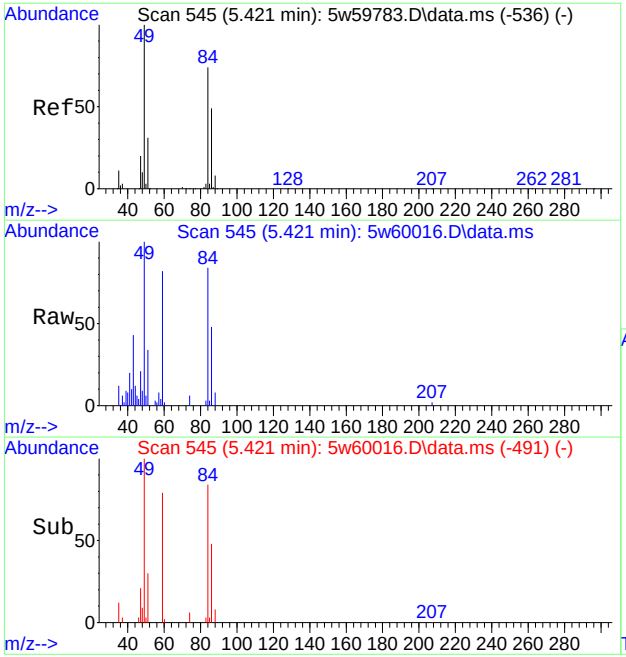


#28
ETHANOL
Concen: 400.70 PPBV
RT: 4.338 min Scan# 368
Delta R.T. 0.018 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 45 Resp: 6332198

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	8.8	0.0	38.5

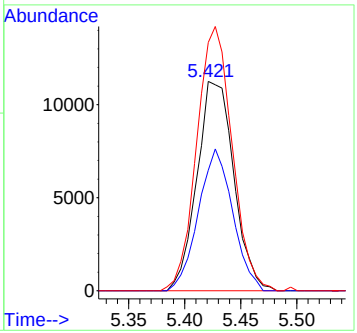


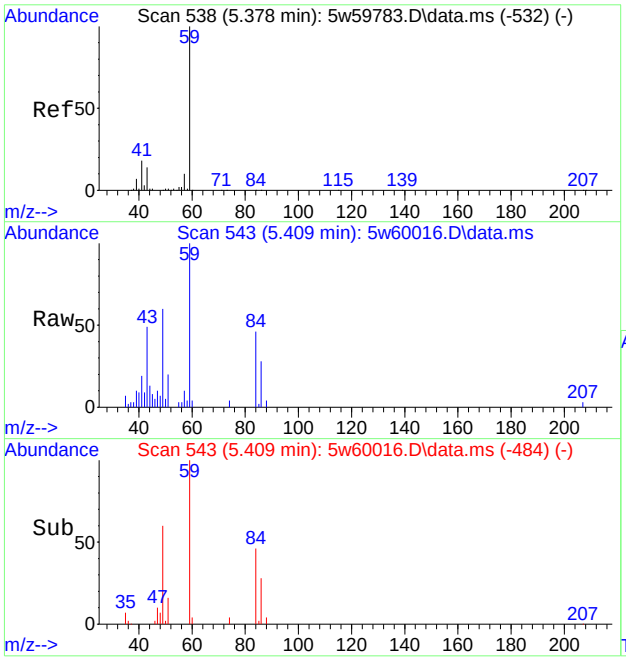


#31
METHYLENE CHLORIDE
Concen: 0.54 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 84 Resp: 25855

Ion	Ratio	Lower	Upper
84	100		
86	63.0	35.2	95.2
49	121.1	105.3	165.3

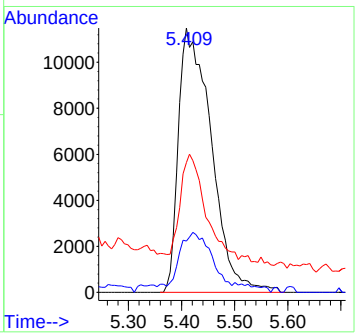


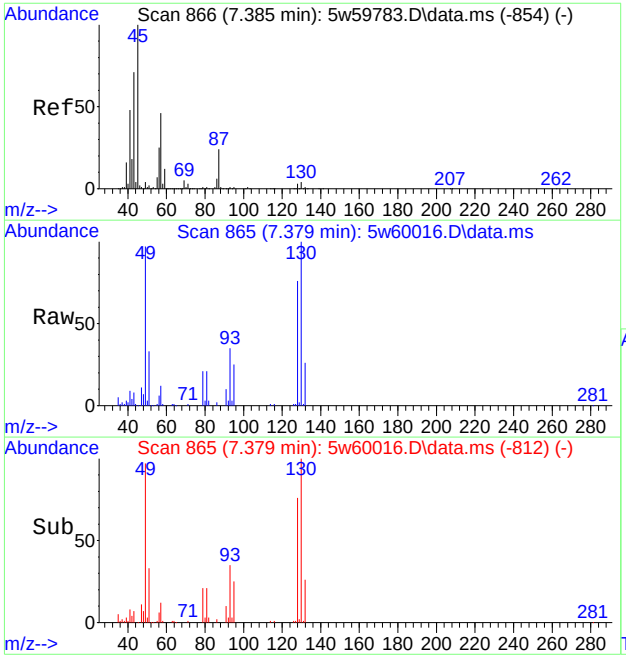


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.51 PPBV
RT: 5.409 min Scan# 543
Delta R.T. 0.031 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 59 Resp: 49374

Ion	Ratio	Lower	Upper
59	100		
41	24.7	0.0	49.3
43	39.7	0.0	44.1

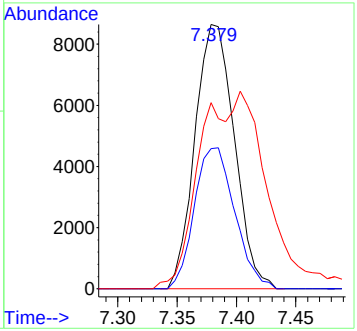


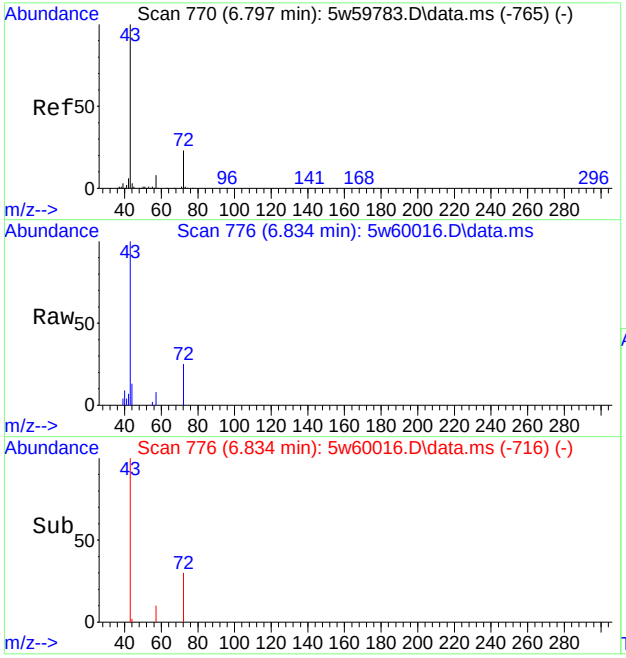


#38
HEXANE
Concen: 0.26 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 57 Resp: 19952

Ion	Ratio	Lower	Upper
57	100		
56	54.7	25.9	85.9
41	0.0	74.7	134.7#

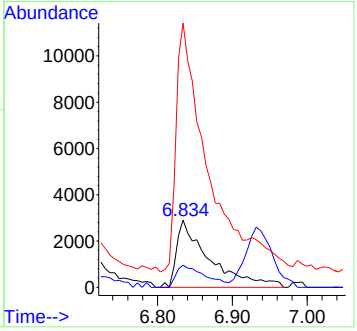


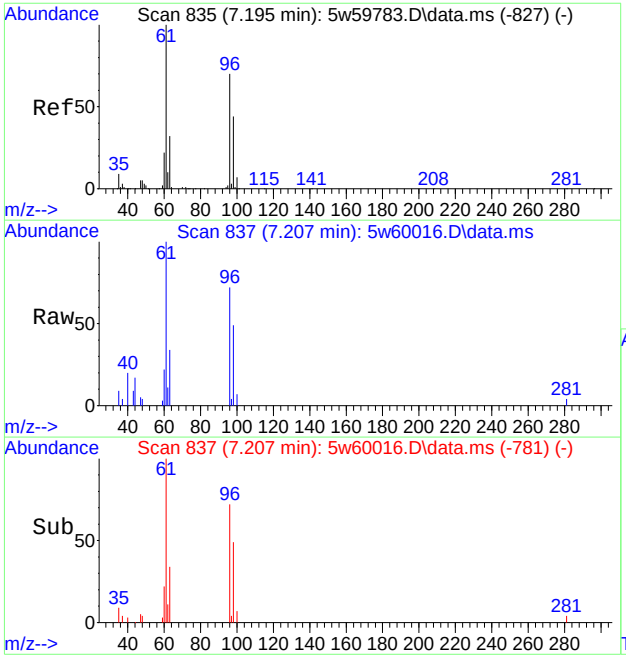


#41
METHYL ETHYL KETONE
Concen: 0.48 PPBV
RT: 6.834 min Scan# 776
Delta R.T. 0.037 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 72 Resp: 8844

Ion	Ratio	Lower	Upper
72	100		
57	33.0	4.8	64.8
43	392.3	415.9	475.9#

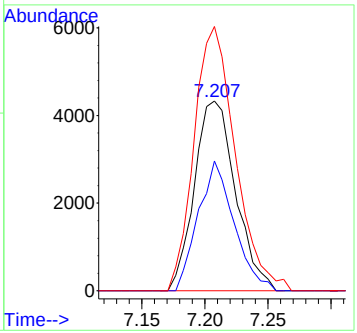


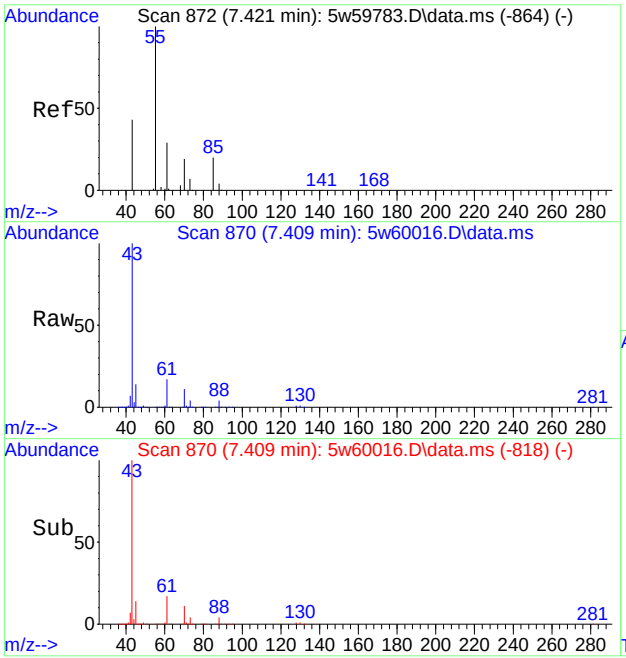


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.17 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 96 Resp: 9815

Ion	Ratio	Lower	Upper
96	100		
98	59.7	34.0	94.0
61	139.5	111.5	171.5

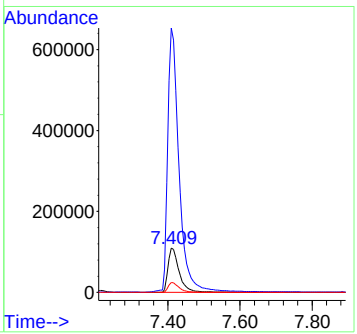


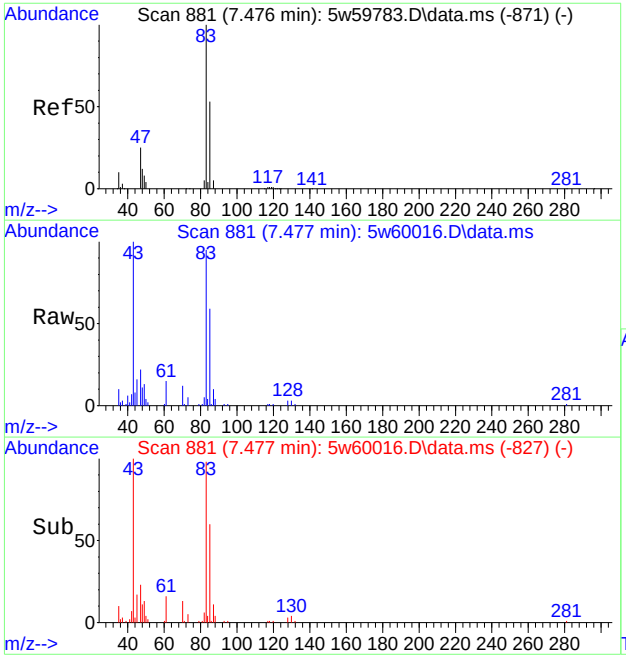


#44
ETHYL ACETATE
Concen: 16.60 PPBV
RT: 7.409 min Scan# 870
Delta R.T. -0.012 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 61 Resp: 235639

Ion	Ratio	Lower	Upper
61	100		
43	603.5	560.5	620.5
88	21.7	4.5	64.5

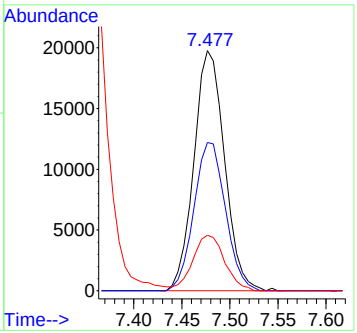


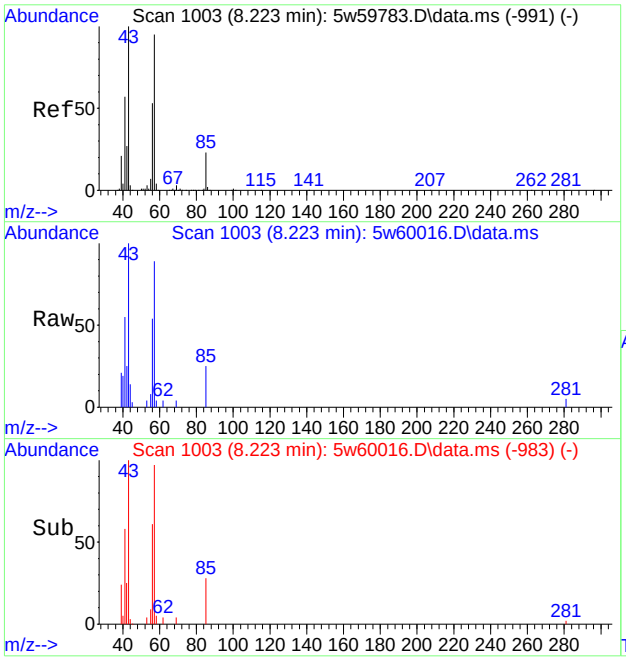


#46
CHLOROFORM
Concen: 0.41 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 83 Resp: 43888

Ion	Ratio	Lower	Upper
83	100		
85	63.5	35.6	95.6
47	23.9	0.0	55.2

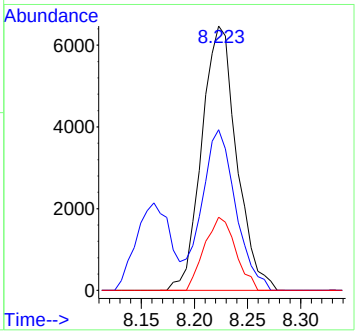


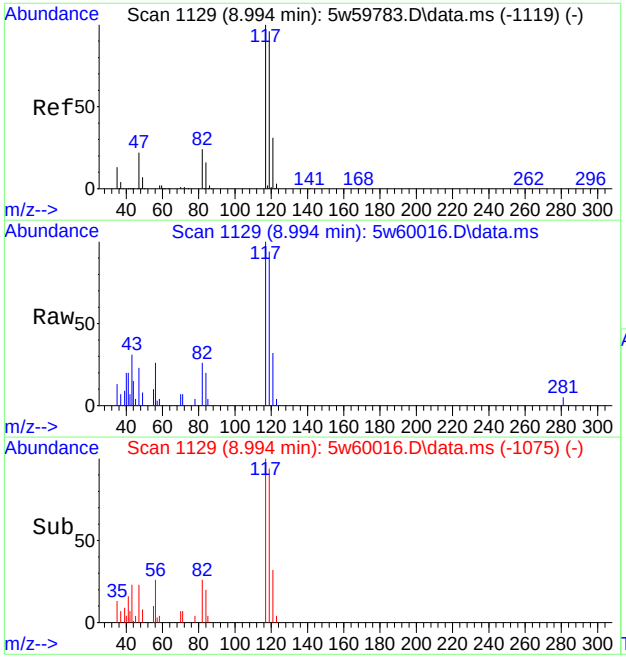


#47
2,4-DIMETHYLPENTANE
Concen: 0.17 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 57 Resp: 14757

Ion	Ratio	Lower	Upper
57	100		
56	59.6	26.5	86.5
85	24.8	0.0	53.8

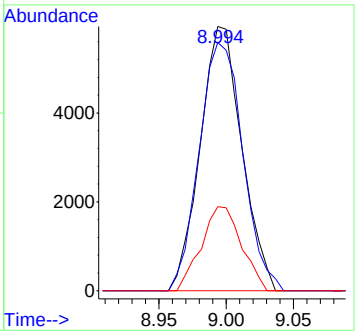


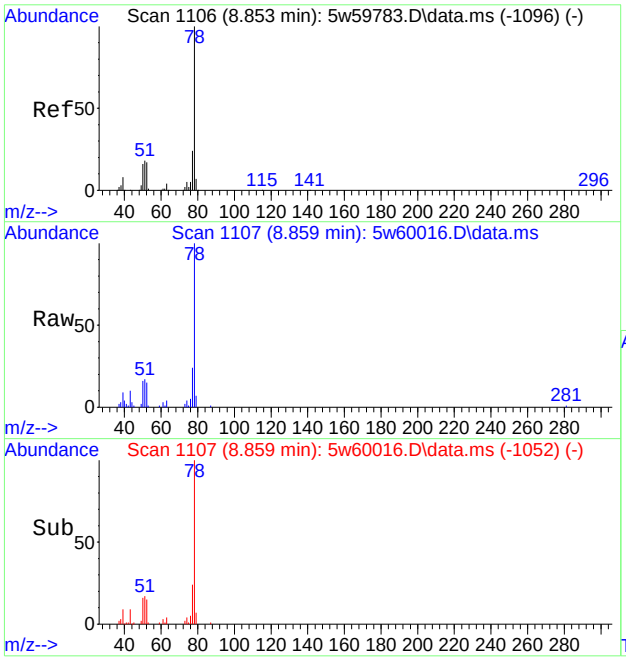


#49
CARBON TETRACHLORIDE
Concen: 0.11 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion:117 Resp: 12832

Ion	Ratio	Lower	Upper
117	100		
119	98.3	66.9	126.9
121	30.6	1.3	61.3

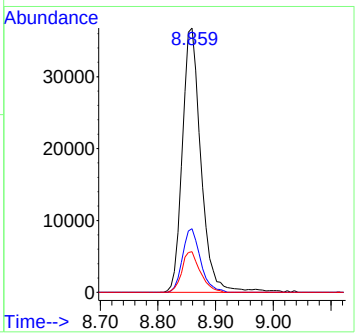


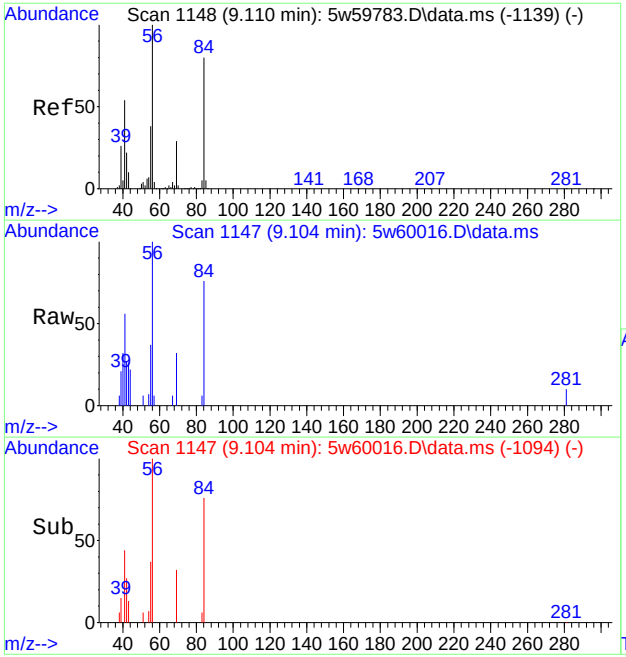


#52
BENZENE
Concen: 0.57 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 78 Resp: 82636

Ion	Ratio	Lower	Upper
78	100		
77	23.2	0.0	53.8
52	15.2	0.0	46.9

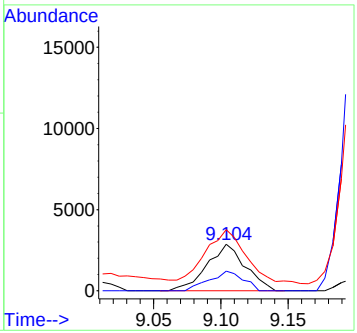


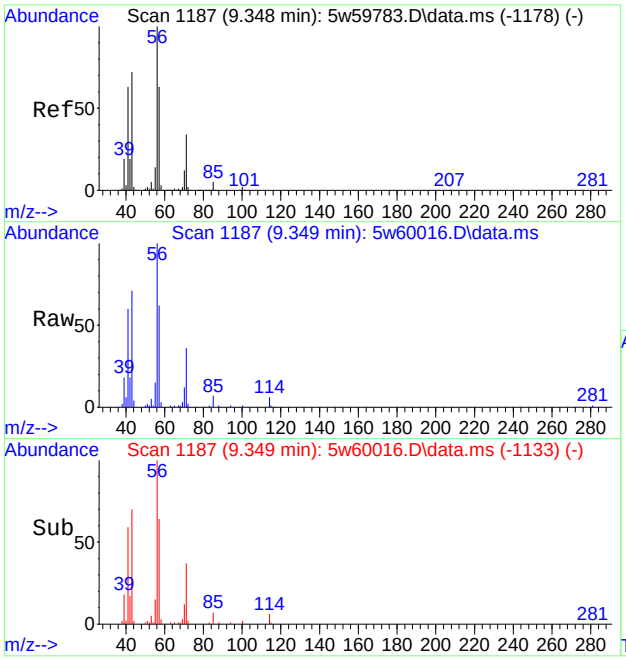


#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 84 Resp: 5687

Ion	Ratio	Lower	Upper
84	100		
69	37.2	6.9	66.9
56	147.3	98.2	158.2

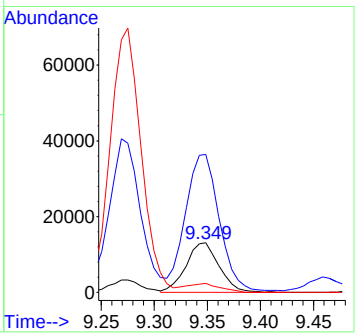


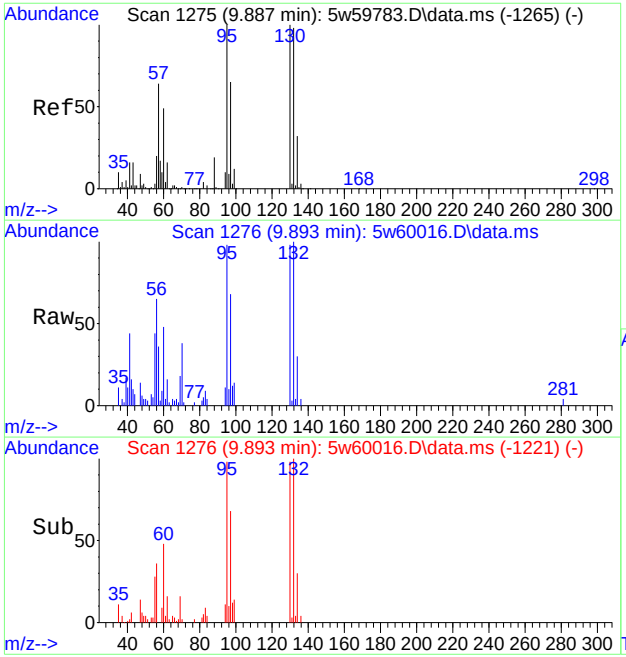


#54
2,3-DIMETHYLPENTANE
Concen: 0.97 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 71 Resp: 28495

Ion	Ratio	Lower	Upper
71	100		
56	281.2	264.6	324.6
85	0.0	0.0	45.3

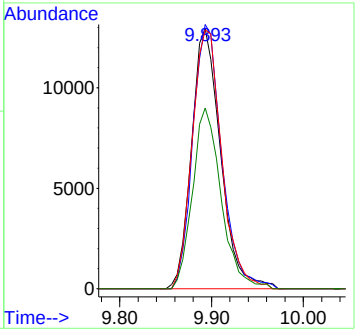


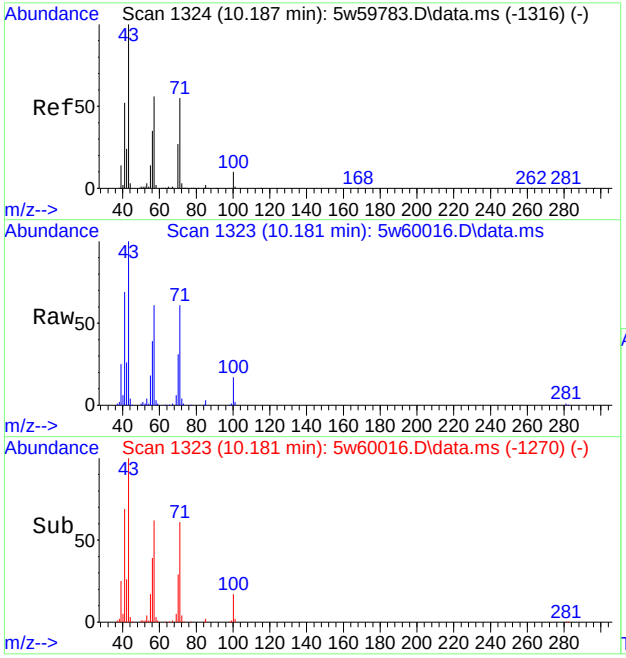


#55
TRICHLOROETHYLENE
Concen: 0.39 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 95 Resp: 28580

Ion	Ratio	Lower	Upper
95	100		
132	101.0	69.0	129.0
130	101.0	70.6	130.6
97	68.3	34.6	94.6

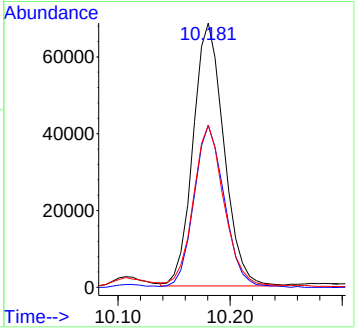


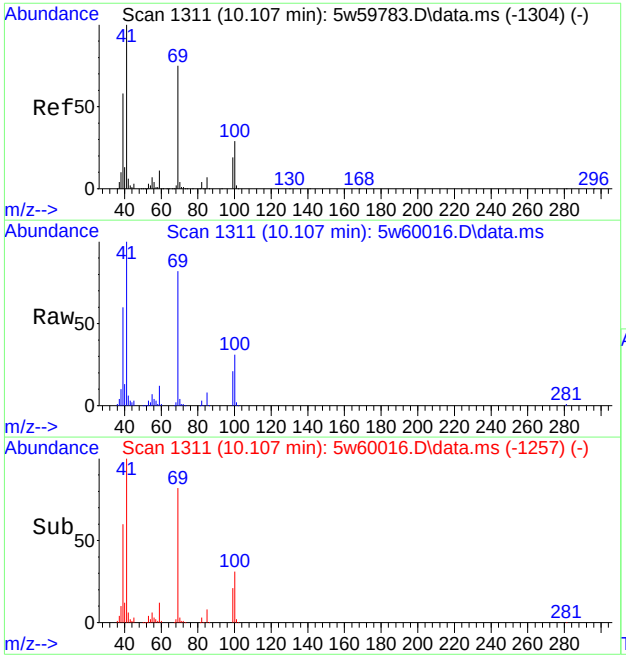


#62
HEPTANE
Concen: 1.57 PPBV
RT: 10.181 min Scan# 1323
Delta R.T. -0.006 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 43 Resp: 130978

Ion	Ratio	Lower	Upper
43	100		
71	60.9	24.5	84.5
57	63.2	26.2	86.2

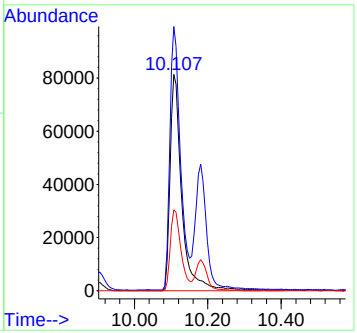


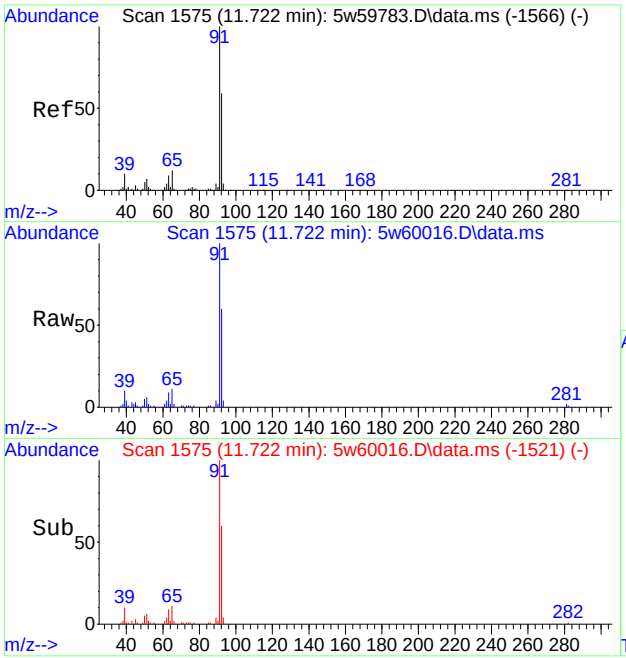


#63
METHYL METHACRYLATE
Concen: 3.86 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 69 Resp: 182453

Ion	Ratio	Lower	Upper
69	100		
41	108.0	95.3	155.3
100	34.0	6.3	66.3

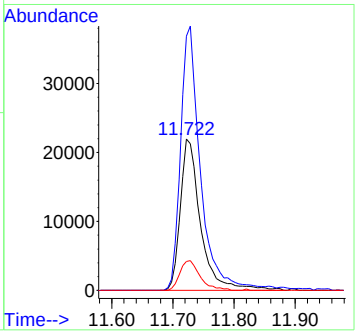


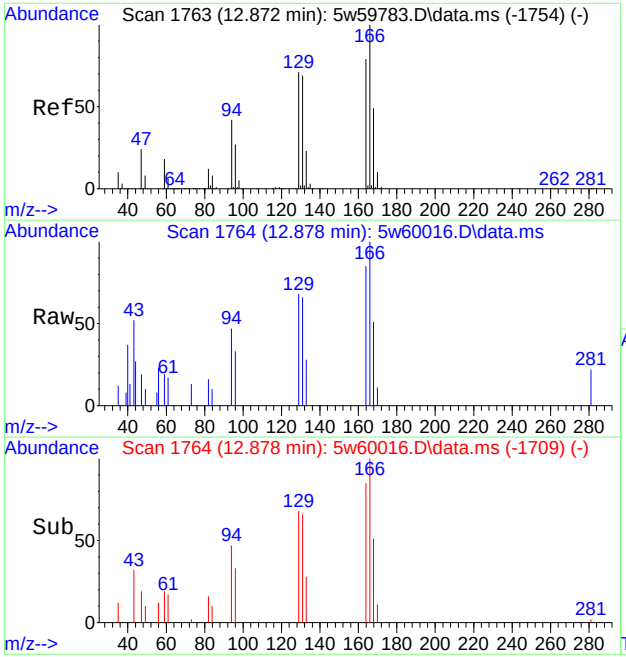


#66
TOLUENE
Concen: 0.47 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 92 Resp: 50737

Ion	Ratio	Lower	Upper
92	100		
91	173.2	140.1	200.1
65	19.6	0.0	53.1

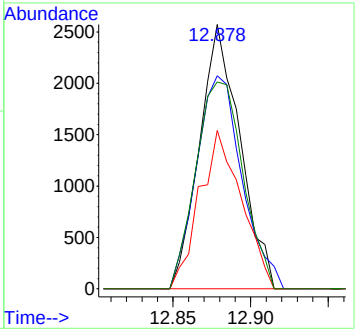


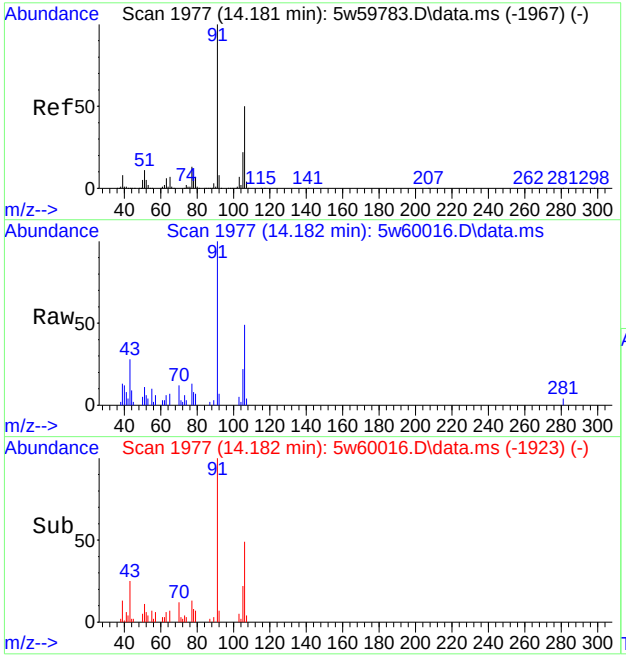


#73
TETRACHLOROETHYLENE
Concen: 0.06 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion:164 Resp: 4666

Ion	Ratio	Lower	Upper
164	100		
129	90.8	59.7	119.7
168	61.7	32.2	92.2
131	91.0	57.8	117.8

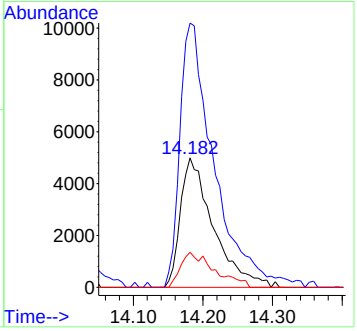


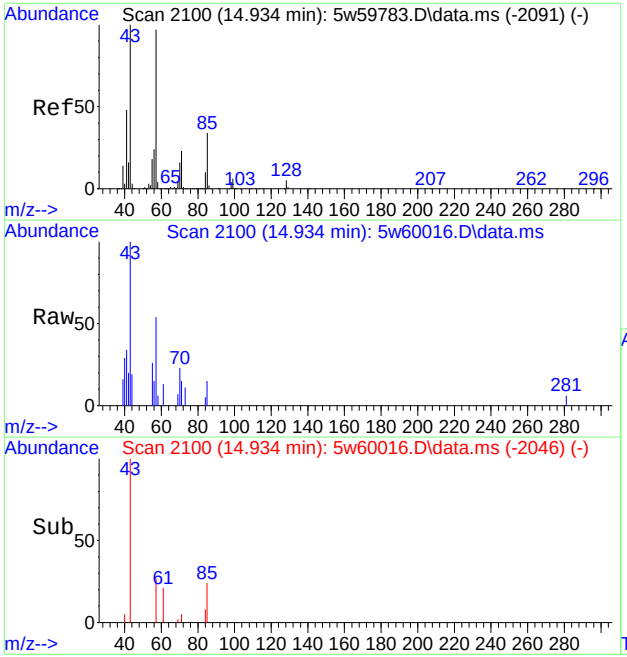


#80
m,p-XYLENE
Concen: 0.20 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion:106 Resp: 16474

Ion	Ratio	Lower	Upper
106	100		
91	204.0	171.0	231.0
77	27.1	0.0	56.7

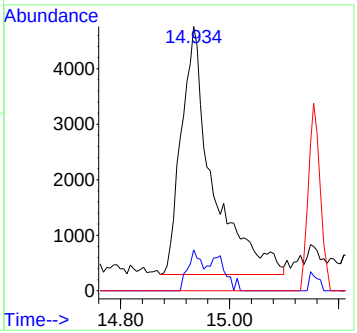




#83
NONANE
Concen: 0.17 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w60016.D
Acq: 24 Nov 2025 10:19 pm

Tgt Ion: 43 Resp: 17685

Ion	Ratio	Lower	Upper
43	100		
71	9.0	0.0	52.7
128	0.0	0.0	34.7



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60044.D
Acq On : 25 Nov 2025 7:09 pm
Operator : benk
Sample : je23793-2 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 27 05:38:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

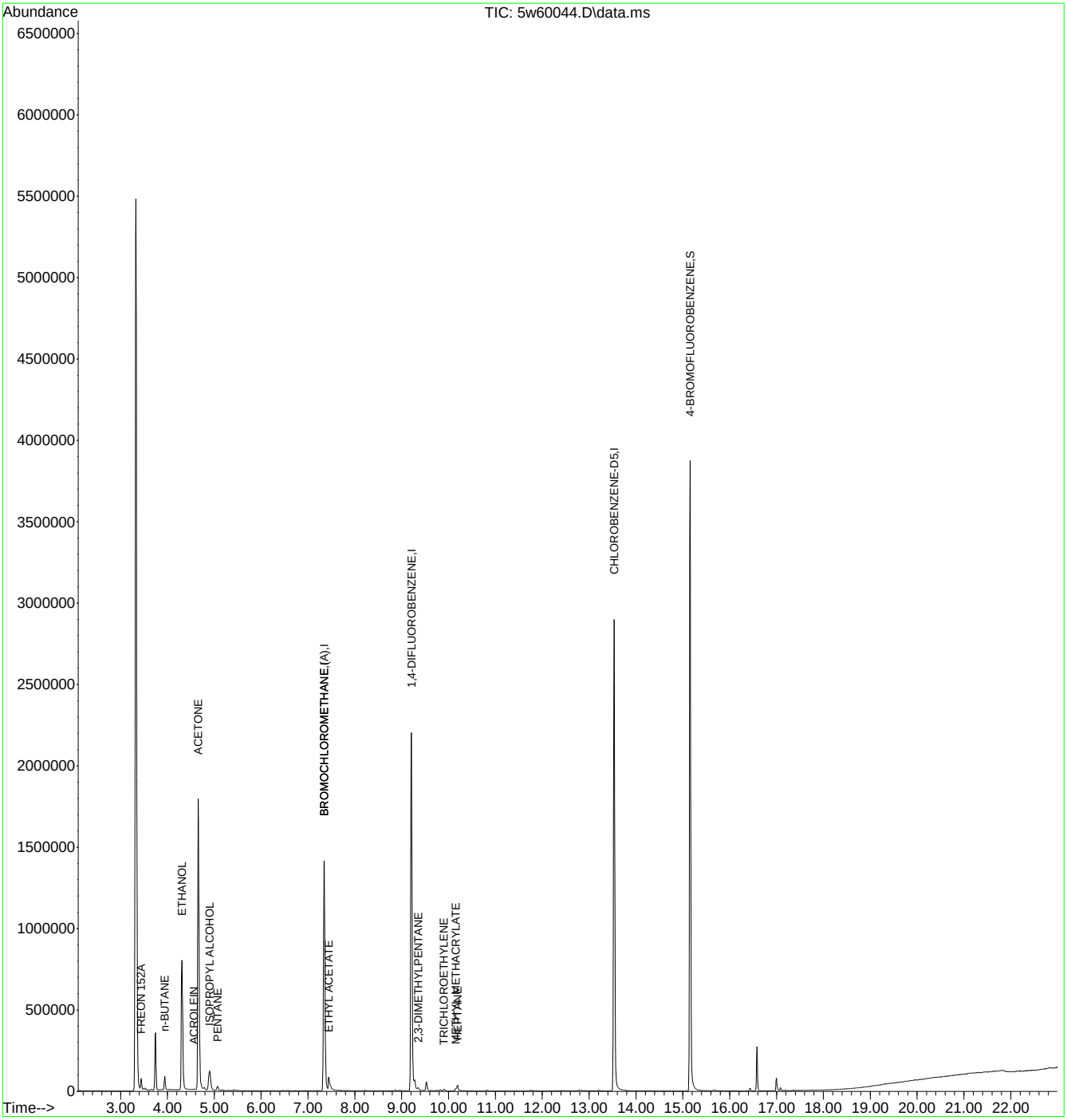
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.342	128	463002	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.208	114	2025402	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1021059	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.342	128	463809	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1323483	10.37	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.70%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	31141	0.9069	PPBV	96
13) n-BUTANE	3.940	43	74490	1.6881	PPBV	97
18) ACROLEIN	4.564	56	2781	0.1941	PPBV	90
22) ISOPROPYL ALCOHOL	4.901	45	249402	2.7470	PPBV	91
23) ACETONE	4.656	58	874047	48.1327	PPBV	85
24) PENTANE	5.066	42	12103	0.2566	PPBV	98
28) ETHANOL	4.308	45	1066511	70.1146	PPBV	98
44) ETHYL ACETATE	7.440	61	21193	1.5508	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.348	71	2808	0.1025	PPBV #	90
55) TRICHLOROETHYLENE	9.893	95	2844	0.0411	PPBV	92
62) HEPTANE	10.193	43	13022	0.1668	PPBV	98
63) METHYL METHACRYLATE	10.150	69	13750	0.3109	PPBV #	37

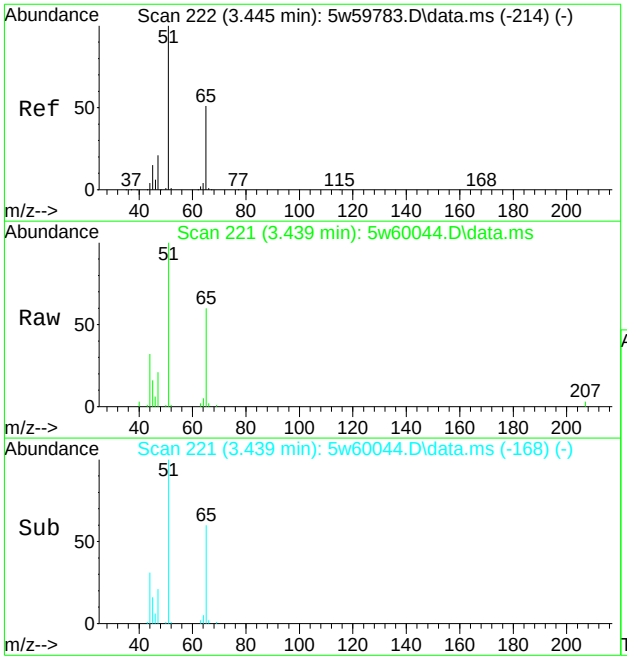
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60044.D
Acq On : 25 Nov 2025 7:09 pm
Operator : benk
Sample : je23793-2 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 27 05:38:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

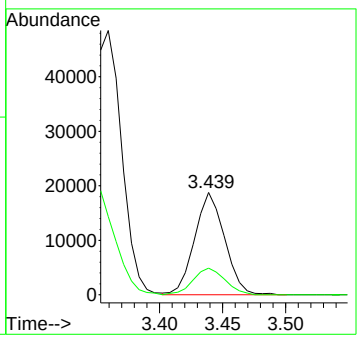


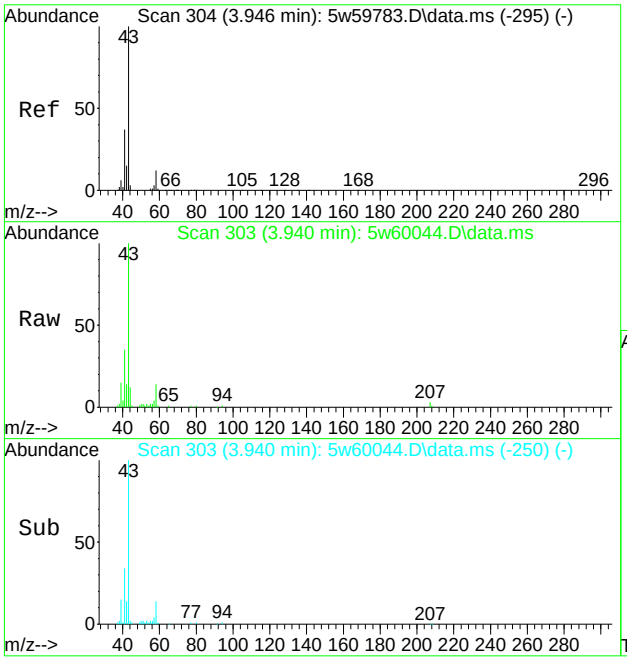


#3
FREON 152A
Concen: 0.9069 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 65 Resp: 31141

Ion	Ratio	Lower	Upper
65	100		
45	27.7	0.0	60.0

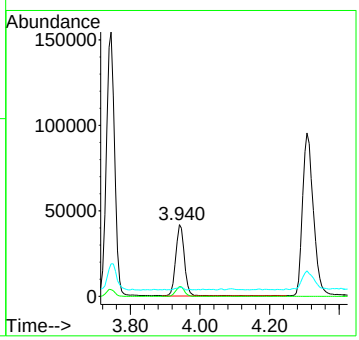


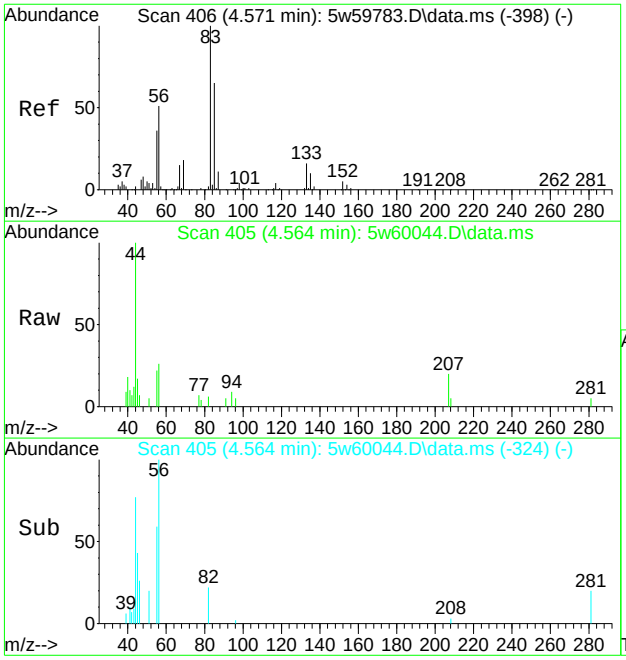


#13
n-BUTANE
Concen: 1.6881 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 43 Resp: 74490

Ion	Ratio	Lower	Upper
43	100		
58	13.3	0.0	42.6
44	3.2	0.0	34.9

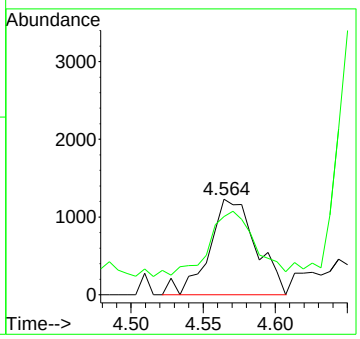


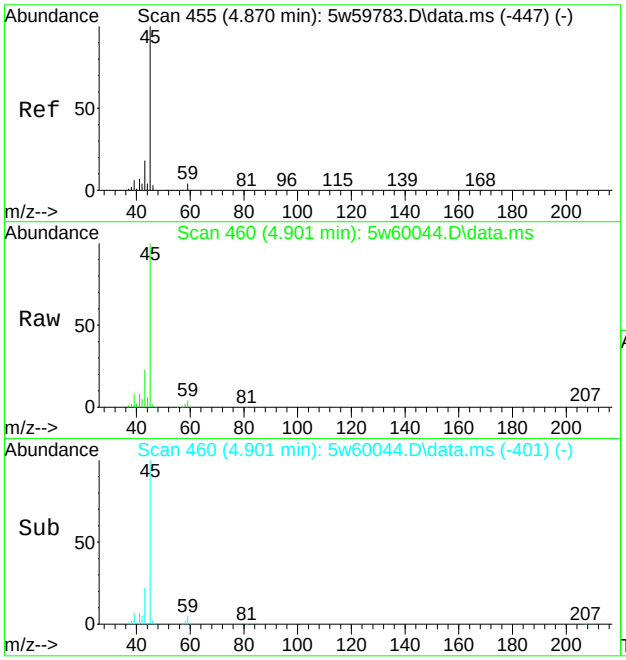


#18
ACROLEIN
Concen: 0.1941 PPBV
RT: 4.564 min Scan# 405
Delta R.T. -0.007 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 56 Resp: 2781

Ion	Ratio	Lower	Upper
56	100		
55	58.4	46.6	86.6

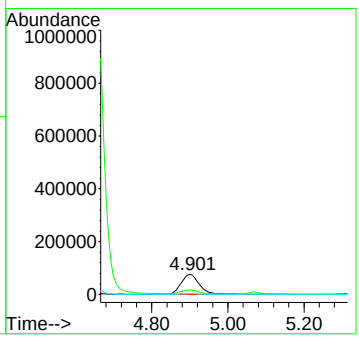


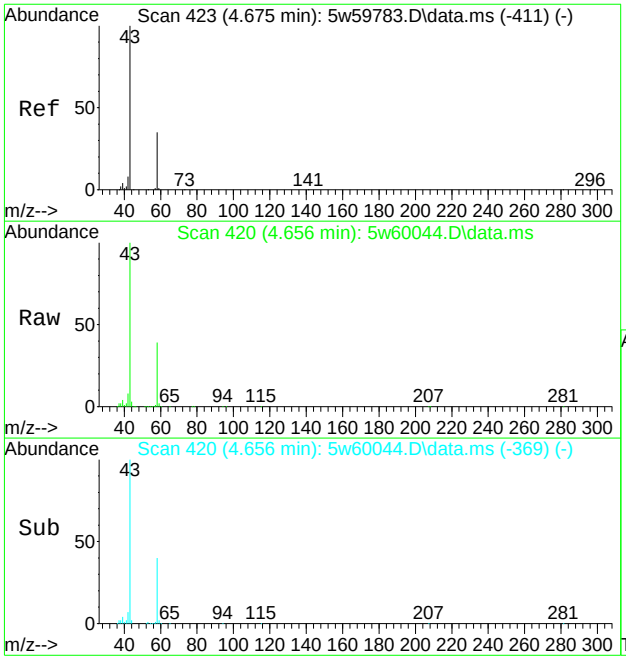


#22
ISOPROPYL ALCOHOL
Concen: 2.7470 PPBV
RT: 4.901 min Scan# 460
Delta R.T. 0.031 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 45 Resp: 249402

Ion	Ratio	Lower	Upper
45	100		
43	22.6	0.0	47.8
59	4.5	0.0	34.1

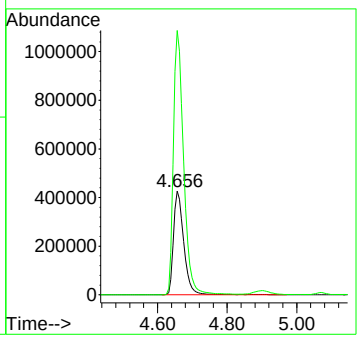


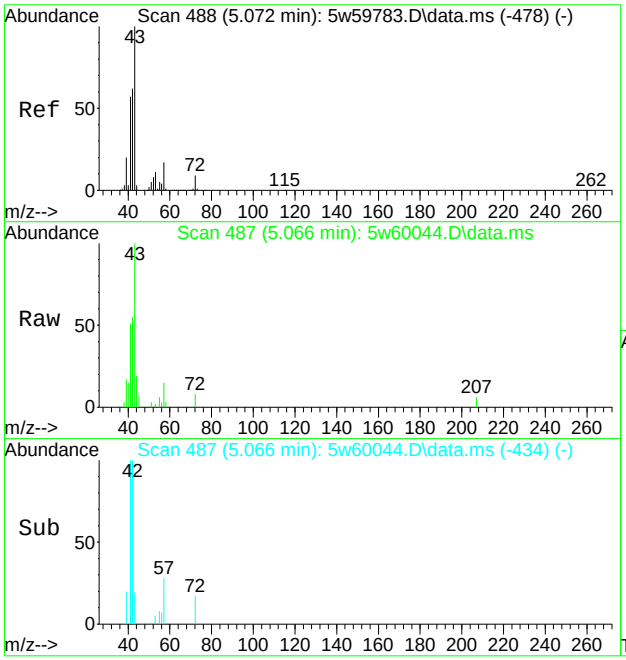


#23
ACETONE
Concen: 48.1327 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 58 Resp: 874047

Ion	Ratio	Lower	Upper
58	100		
43	253.1	252.3	312.3

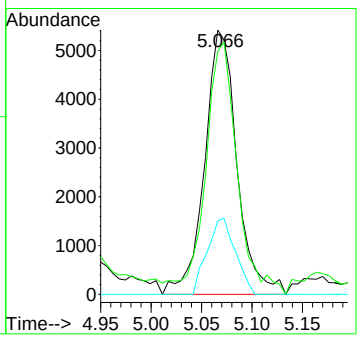


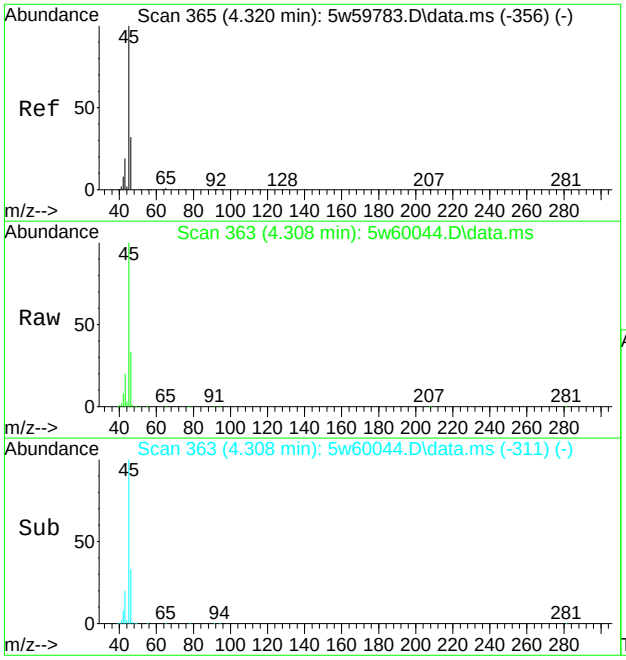


#24
PENTANE
Concen: 0.2566 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 42 Resp: 12103

Ion	Ratio	Lower	Upper
42	100		
41	92.0	62.3	122.3
57	24.9	0.0	57.7

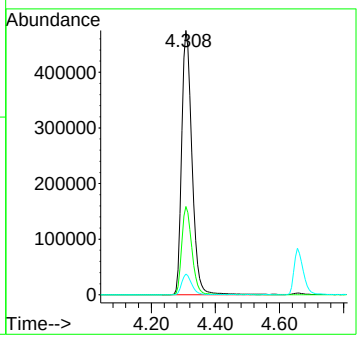


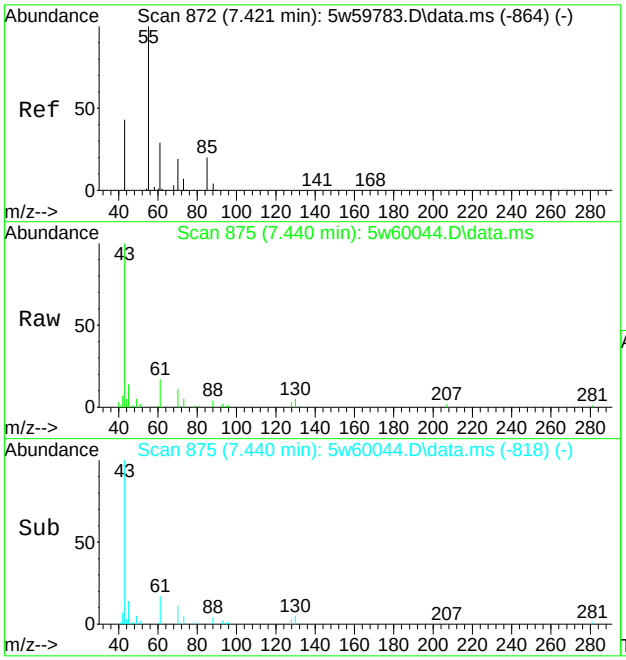


#28
ETHANOL
Concen: 70.1146 PPBV
RT: 4.308 min Scan# 363
Delta R.T. -0.012 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 45 Resp: 1066511

Ion	Ratio	Lower	Upper
45	100		
46	33.1	2.0	62.0
42	7.6	0.0	38.5

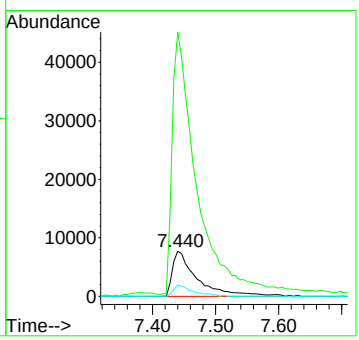


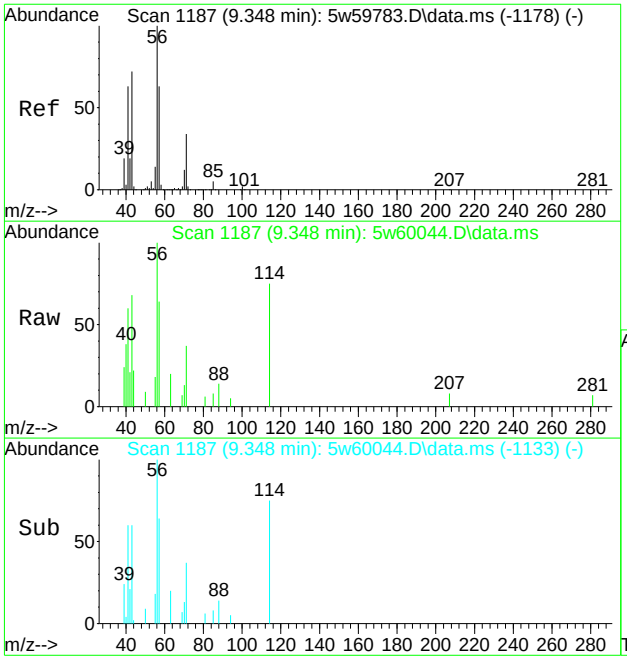


#44
ETHYL ACETATE
Concen: 1.5508 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.019 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 61 Resp: 21193

Ion	Ratio	Lower	Upper
61	100		
43	589.1	560.5	620.5
88	19.9	4.5	64.5

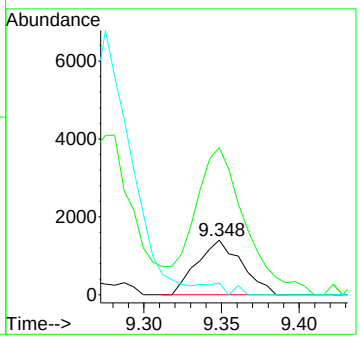


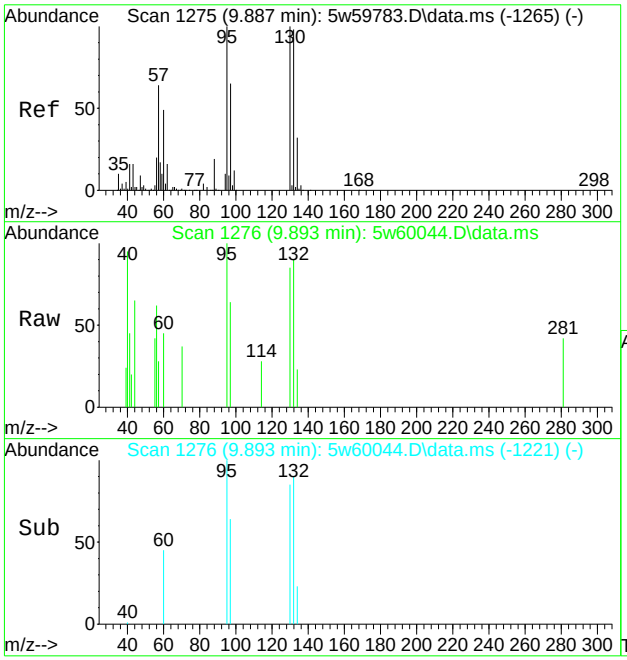


#54
2,3-DIMETHYLPENTANE
Concen: 0.1025 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 71 Resp: 2808

Ion	Ratio	Lower	Upper
71	100		
56	311.7	264.6	324.6
85	0.0	0.0	45.3

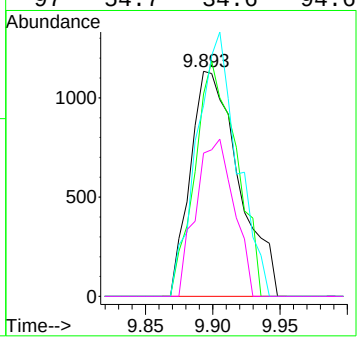


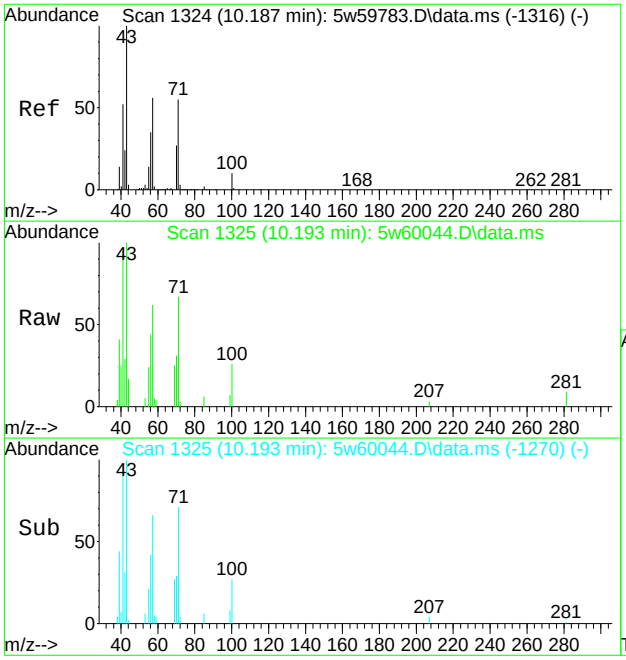


#55
TRICHLOROETHYLENE
Concen: 0.0411 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 95 Resp: 2844

Ion	Ratio	Lower	Upper
95	100		
132	89.1	69.0	129.0
130	98.3	70.6	130.6
97	54.7	34.6	94.6

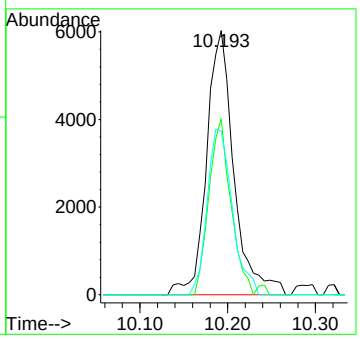


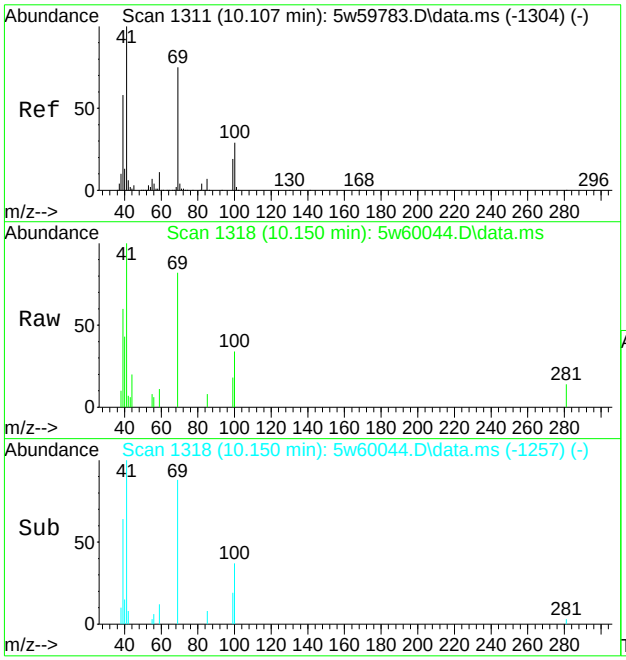


#62
HEPTANE
Concen: 0.1668 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 43 Resp: 13022

Ion	Ratio	Lower	Upper
43	100		
71	53.2	24.5	84.5
57	57.6	26.2	86.2

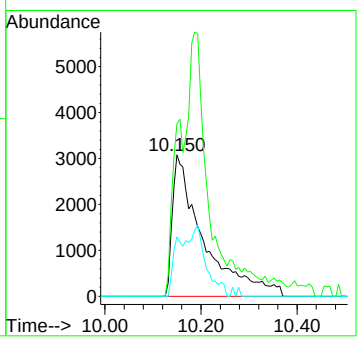




#63
METHYL METHACRYLATE
Concen: 0.3109 PPBV
RT: 10.150 min Scan# 1318
Delta R.T. 0.043 min
Lab File: 5w60044.D
Acq: 25 Nov 2025 7:09 pm

Tgt Ion: 69 Resp: 13750

Ion	Ratio	Lower	Upper
69	100		
41	52.7	95.3	155.3#
100	0.0	6.3	66.3#



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/27/25 01:48

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 5w60017.D
Acq On : 24 Nov 2025 11:02 pm
Operator : benk
Sample : je23793-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 01:41:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

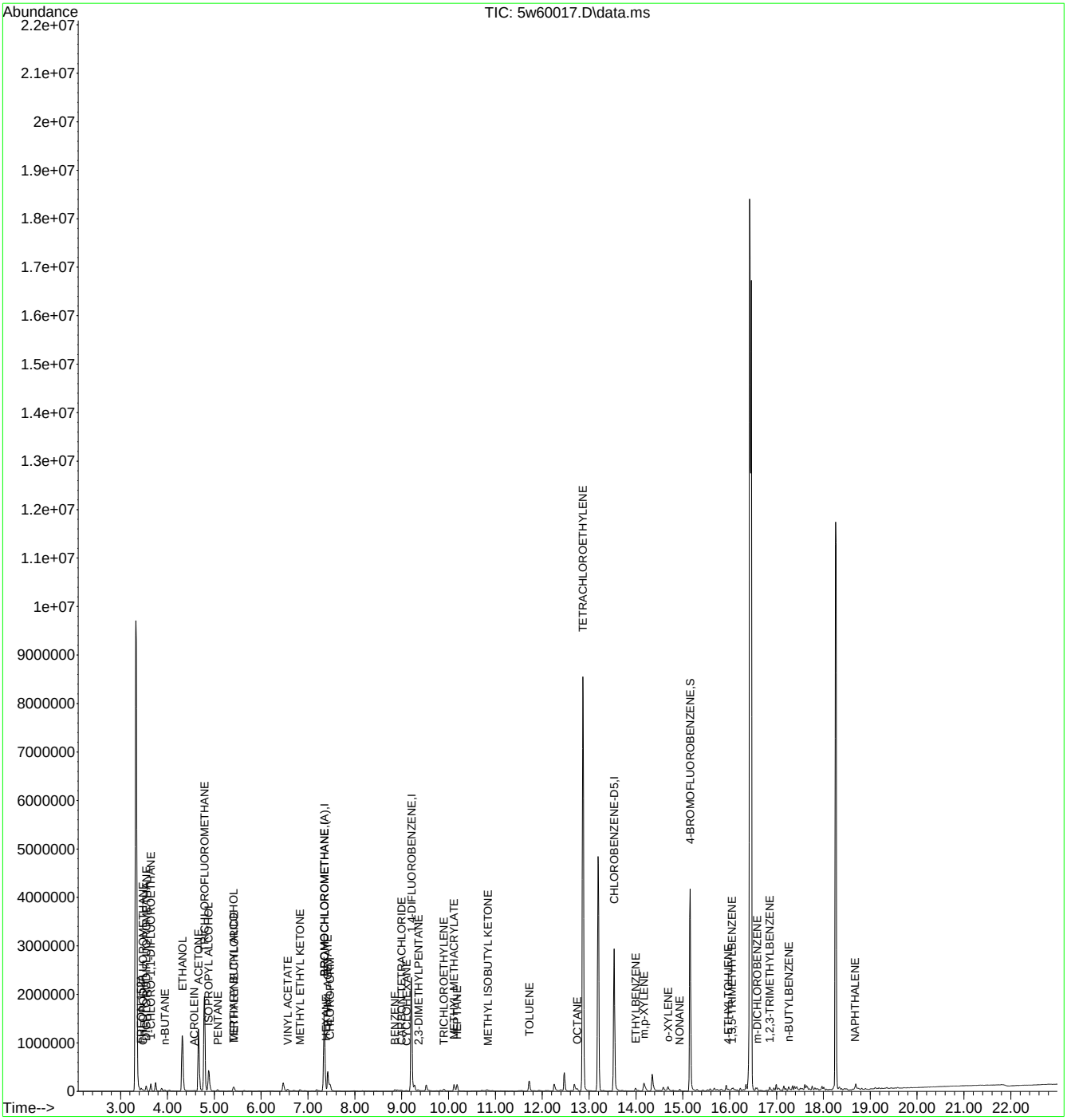
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	475052	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2137020	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	997545	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	475052	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1396777	11.21	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 112.10%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	22420	0.6364	PPBV	99
4) CHLORODIFLUOROMETHANE	3.475	67	4217	0.2861	PPBV	91
6) DICHLORODIFLUOROMETHANE	3.549	85	93059	0.6845	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	129563	1.1768	PPBV	99
13) n-BUTANE	3.947	43	23176	0.5119	PPBV	87
18) ACROLEIN	4.571	56	5469	0.3721	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.791	101	1806448	15.5558	PPBV	100
22) ISOPROPYL ALCOHOL	4.876	45	642238	6.8943	PPBV	98
23) ACETONE	4.662	58	614655	32.9897	PPBV	85
24) PENTANE	5.072	42	13424	0.2774	PPBV	99
28) ETHANOL	4.320	45	1552118	99.4512	PPBV	98
31) METHYLENE CHLORIDE	5.421	84	17341	0.3638	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.409	59	90724	0.9524	PPBV	95
38) HEXANE	7.385	57	17197	0.2267	PPBV	99
39) VINYL ACETATE	6.565	86	6292	0.8203	PPBV #	12
41) METHYL ETHYL KETONE	6.828	72	15892	0.8661	PPBV #	81
44) ETHYL ACETATE	7.421	61	87819	6.2633	PPBV	95
46) CHLOROFORM	7.470	83	88598	0.8388	PPBV	98
49) CARBON TETRACHLORIDE	8.994	117	12412	0.1037	PPBV	98
52) BENZENE	8.853	78	35174	0.2457	PPBV	98
53) CYCLOHEXANE	9.104	84	5853	0.1023	PPBV #	75
54) 2,3-DIMETHYLPENTANE	9.355	71	5498	0.1902	PPBV #	79
55) TRICHLOROETHYLENE	9.893	95	7872	0.1079	PPBV	97
62) HEPTANE	10.180	43	59816	0.7261	PPBV	97
63) METHYL METHACRYLATE	10.113	69	69461	1.4887	PPBV	85
64) METHYL ISOBUTYL KETONE	10.841	58	4235	0.1003	PPBV #	69
66) TOLUENE	11.722	92	111040	1.0376	PPBV	99
73) TETRACHLOROETHYLENE	12.866	164	2150353	31.6012	PPBV	98
76) OCTANE	12.744	43	32748m	0.3456	PPBV	
79) ETHYLBENZENE	13.992	91	57330	0.2998	PPBV	98
80) m,p-XYLENE	14.169	106	76540	1.0158	PPBV	99
81) o-XYLENE	14.683	106	30555	0.4330	PPBV	95
83) NONANE	14.934	43	18873	0.1969	PPBV	94
92) 4-ETHYLTOLUENE	15.968	105	29139m	0.1474	PPBV	
93) 1,3,5-TRIMETHYLBENZENE	16.047	105	24806	0.1350	PPBV	95
97) m-DICHLOROBENZENE	16.586	146	20686	0.1578	PPBV	92
101) 1,2,3-TRIMETHYLBENZENE	16.855	105	30174	0.1664	PPBV	79
104) n-BUTYLBENZENE	17.259	134	12683	0.2418	PPBV #	1
108) NAPHTHALENE	18.678	128	37215	0.1402	PPBV	89

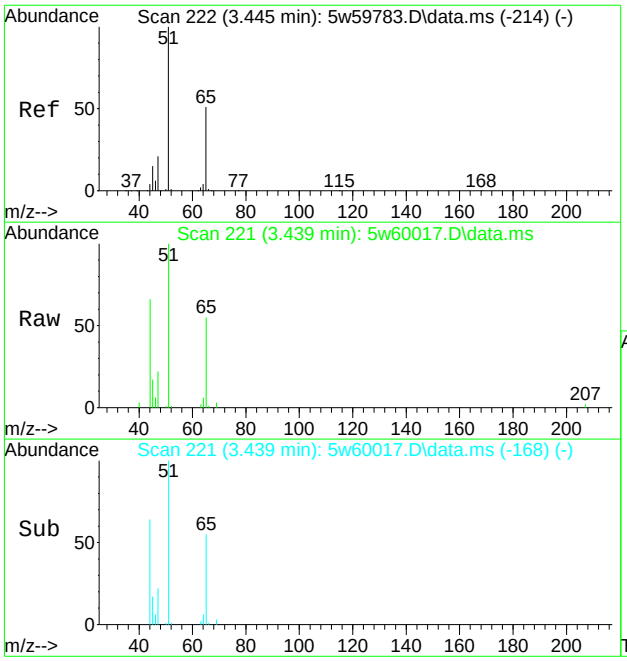
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60017.D
Acq On : 24 Nov 2025 11:02 pm
Operator : benk
Sample : je23793-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 01:41:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

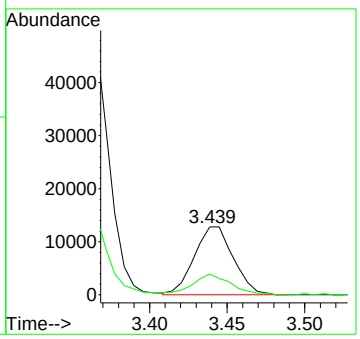


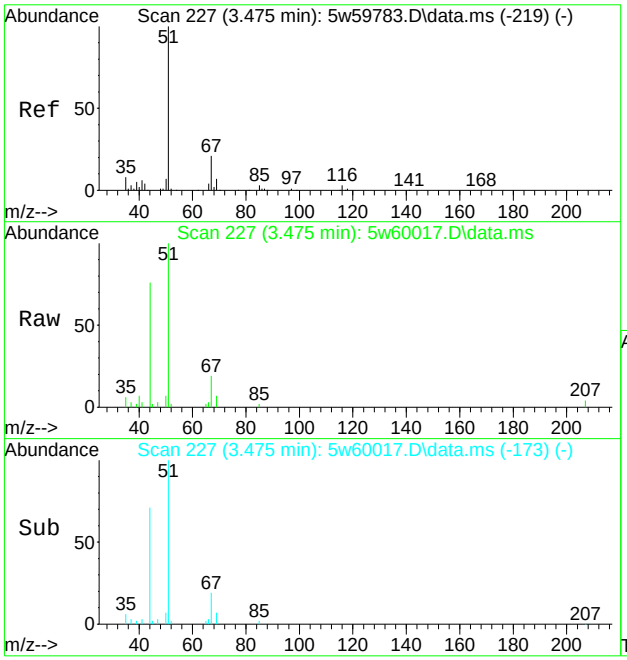


#3
FREON 152A
Concen: 0.6364 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 65 Resp: 22420

Ion	Ratio	Lower	Upper
65	100		
45	29.7	0.0	60.0

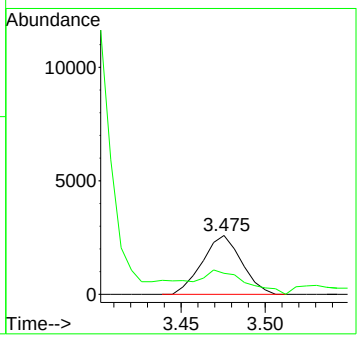


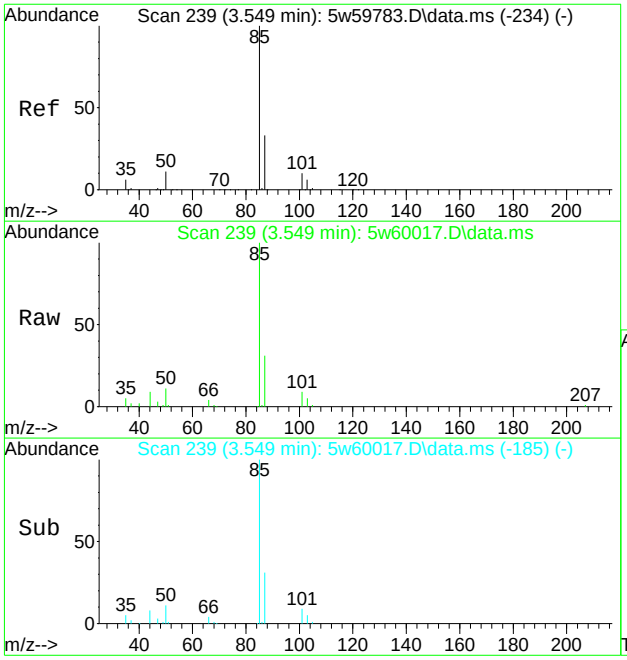


#4
CHLORODIFLUOROMETHANE
Concen: 0.2861 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 67 Resp: 4217

Ion	Ratio	Lower	Upper
67	100		
69	35.8	1.0	61.0

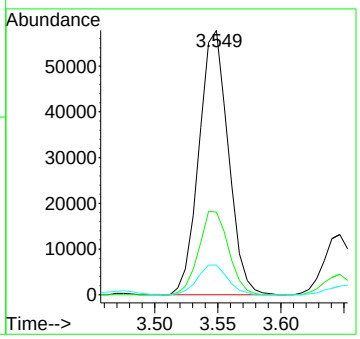


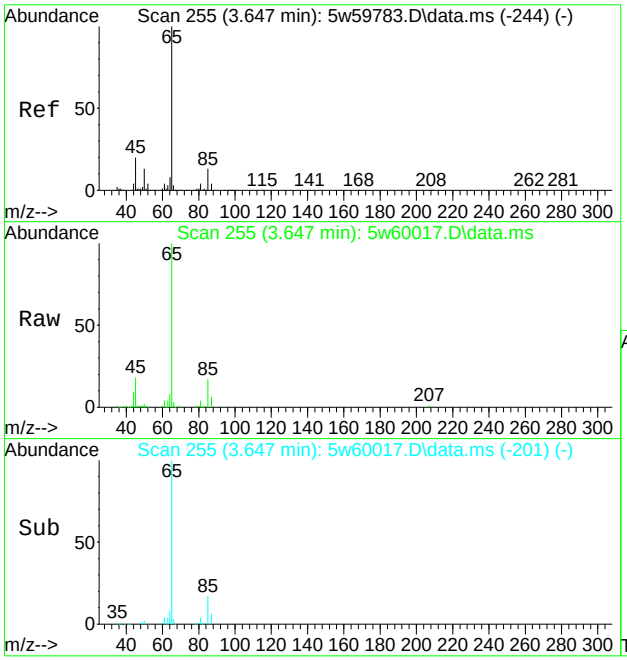


#6
DICHLORODIFLUOROMETHANE
Concen: 0.6845 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 85 Resp: 93059

Ion	Ratio	Lower	Upper
85	100		
87	32.2	2.5	62.5
50	11.7	0.0	41.7

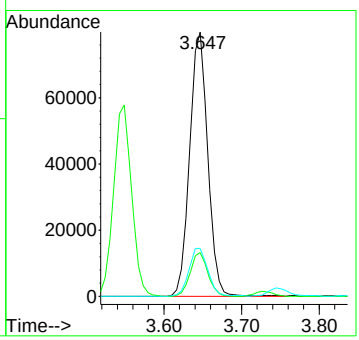


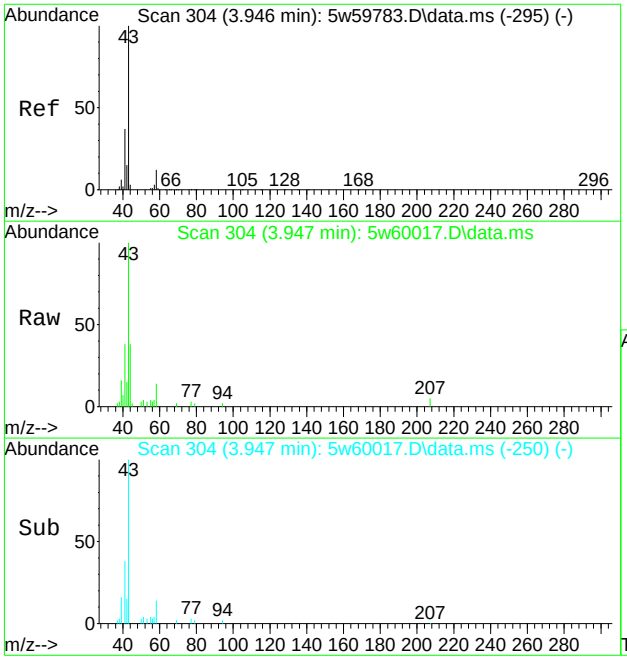


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 1.1768 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 65 Resp: 129563

Ion	Ratio	Lower	Upper
65	100		
85	16.2	11.5	21.3
45	19.2	14.0	26.0

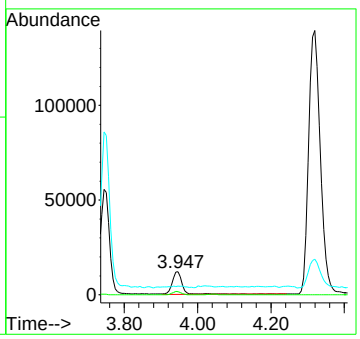


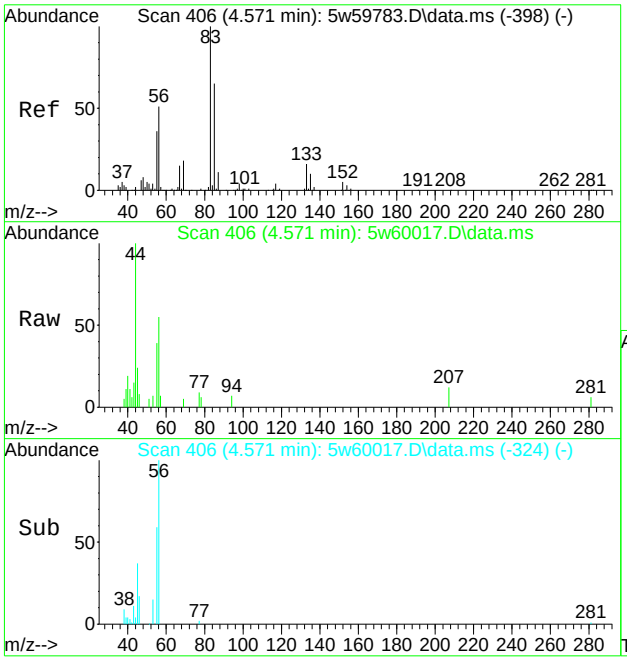


#13
n-BUTANE
Concen: 0.5119 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 43 Resp: 23176

Ion	Ratio	Lower	Upper
43	100		
58	12.3	0.0	42.6
44	19.4	0.0	34.9

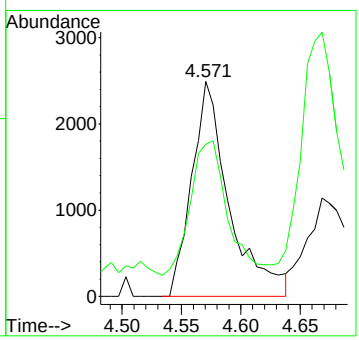


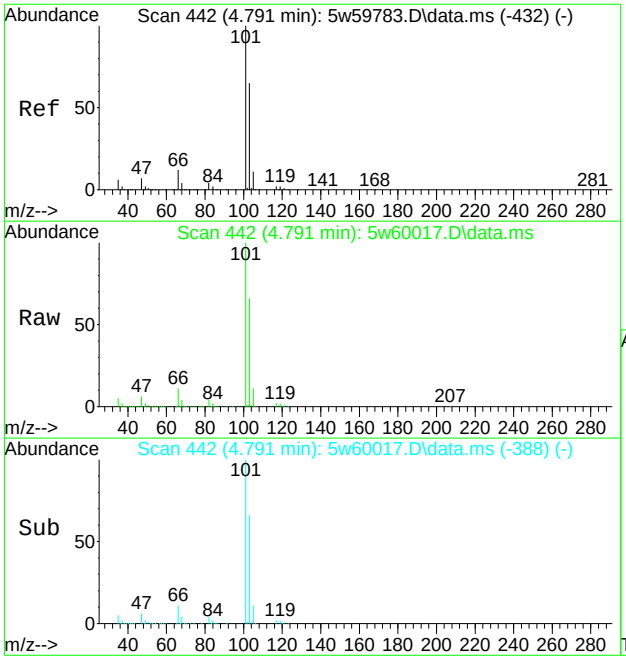


#18
ACROLEIN
Concen: 0.3721 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 56 Resp: 5469

Ion	Ratio	Lower	Upper
56	100		
55	68.4	46.6	86.6

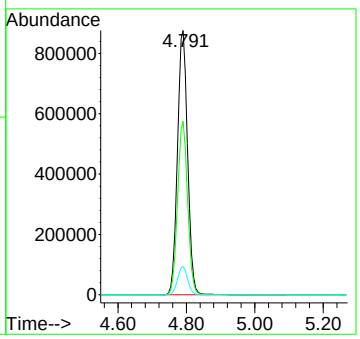


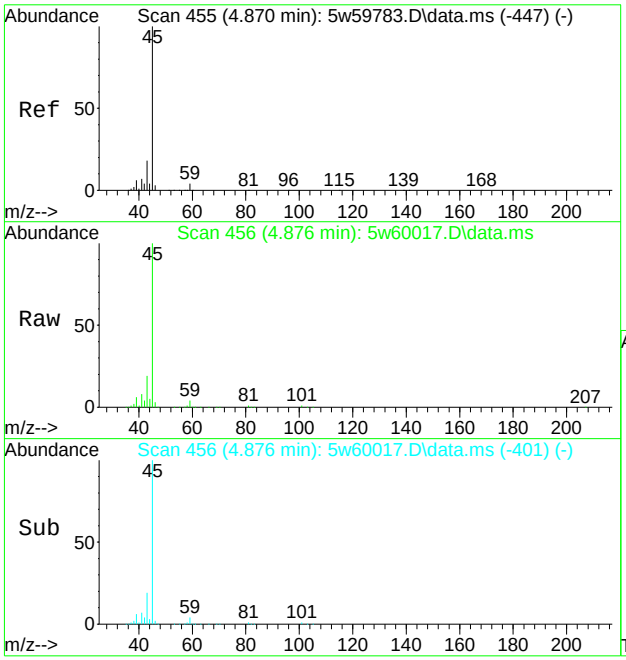


#21
TRICHLOROFLUOROMETHANE
Concen: 15.5558 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:101 Resp: 1806448

Ion	Ratio	Lower	Upper
101	100		
103	65.2	35.0	95.0
105	10.7	0.0	40.7

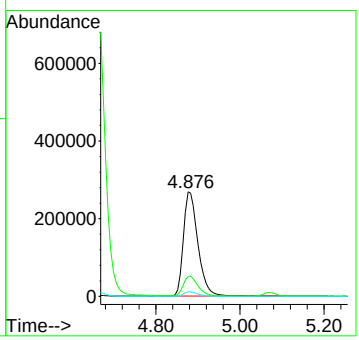


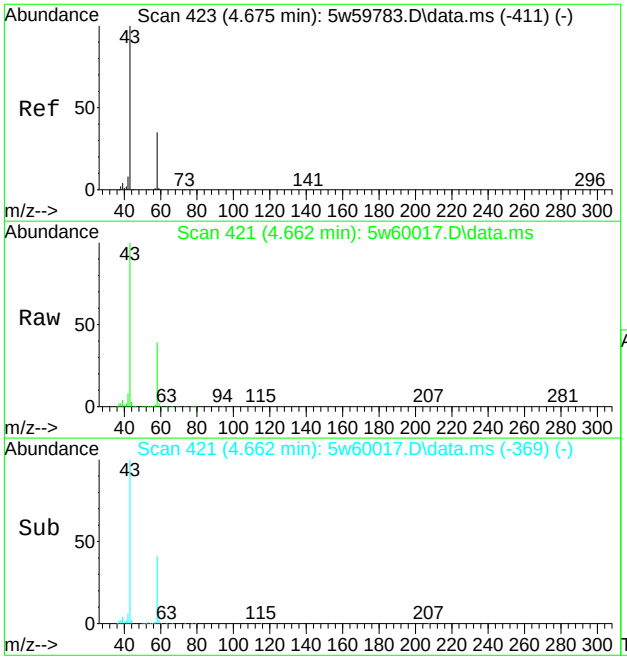


#22
ISOPROPYL ALCOHOL
Concen: 6.8943 PPBV
RT: 4.876 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 45 Resp: 642238

Ion	Ratio	Lower	Upper
45	100		
43	19.0	0.0	47.8
59	4.4	0.0	34.1

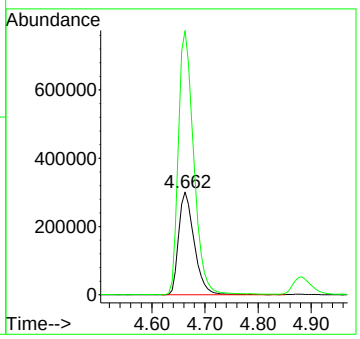


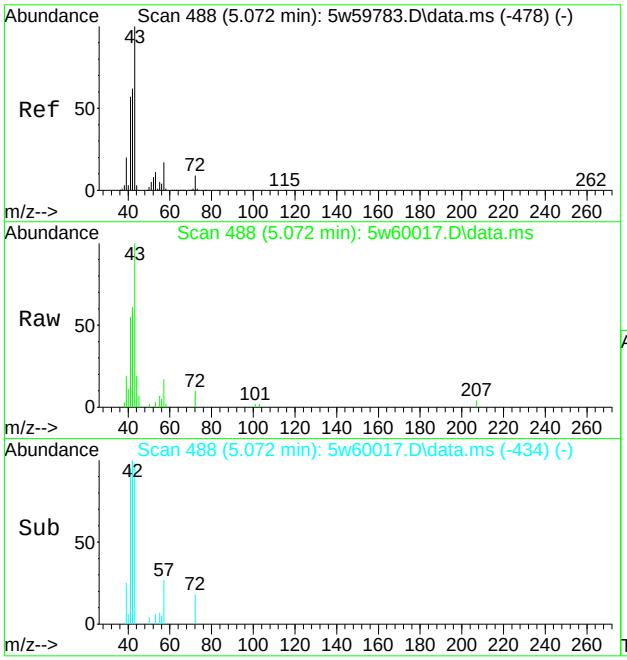


#23
ACETONE
Concen: 32.9897 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 58 Resp: 614655

Ion	Ratio	Lower	Upper
58	100		
43	253.8	252.3	312.3

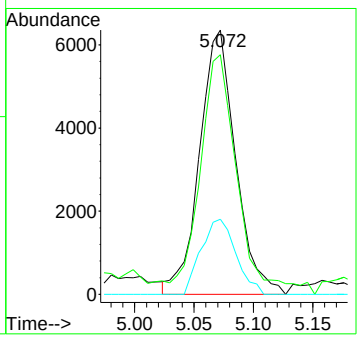


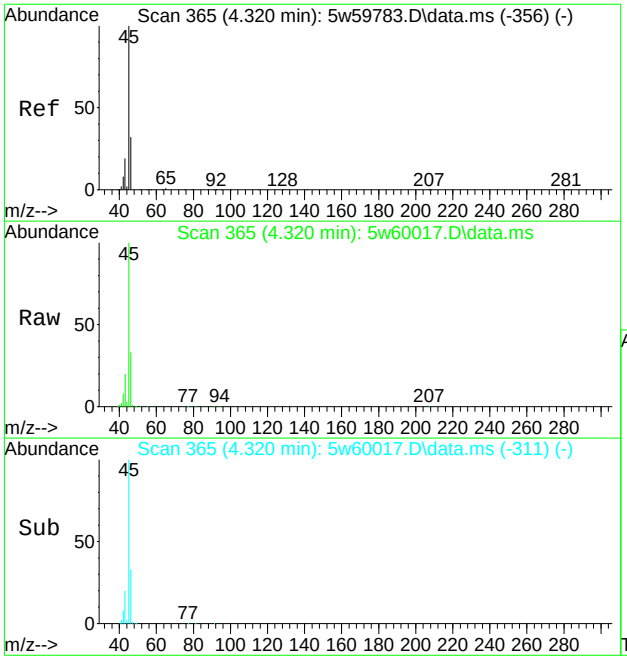


#24
PENTANE
Concen: 0.2774 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 42 Resp: 13424

Ion	Ratio	Lower	Upper
42	100		
41	93.2	62.3	122.3
57	27.4	0.0	57.7

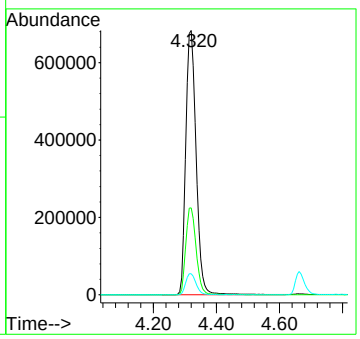


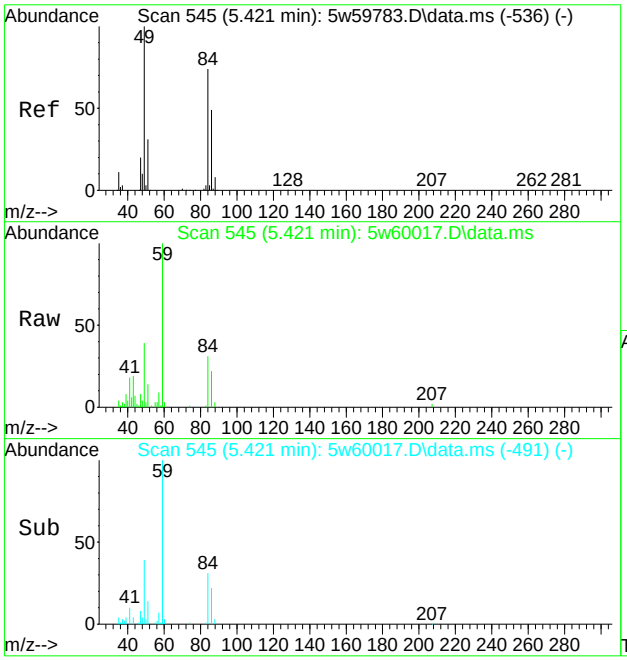


#28
ETHANOL
Concen: 99.4512 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 45 Resp: 1552118

Ion	Ratio	Lower	Upper
45	100		
46	33.0	2.0	62.0
42	8.1	0.0	38.5

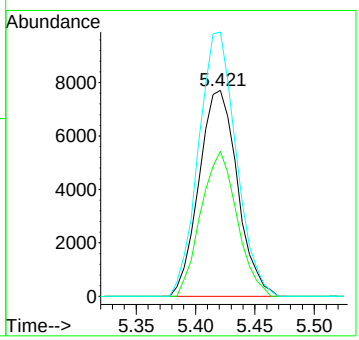


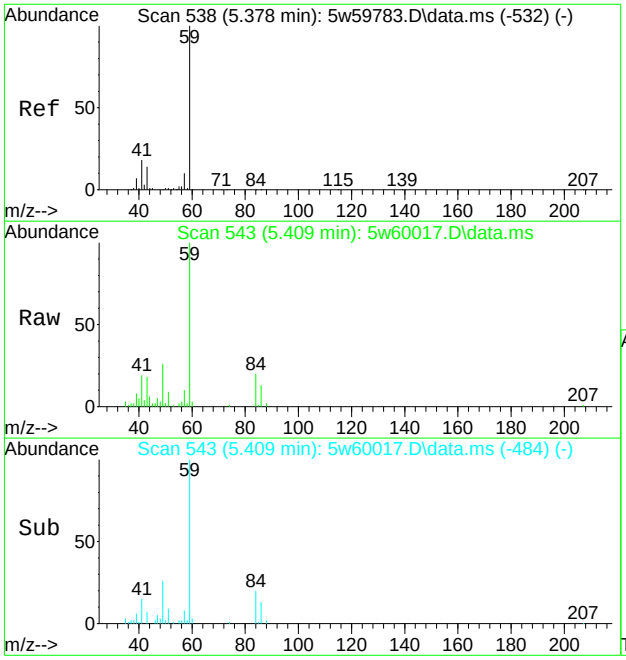


#31
METHYLENE CHLORIDE
Concen: 0.3638 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 84 Resp: 17341

Ion	Ratio	Lower	Upper
84	100		
86	65.9	35.2	95.2
49	125.5	105.3	165.3

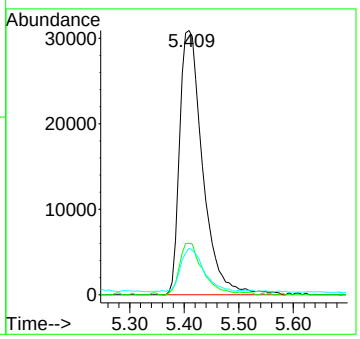


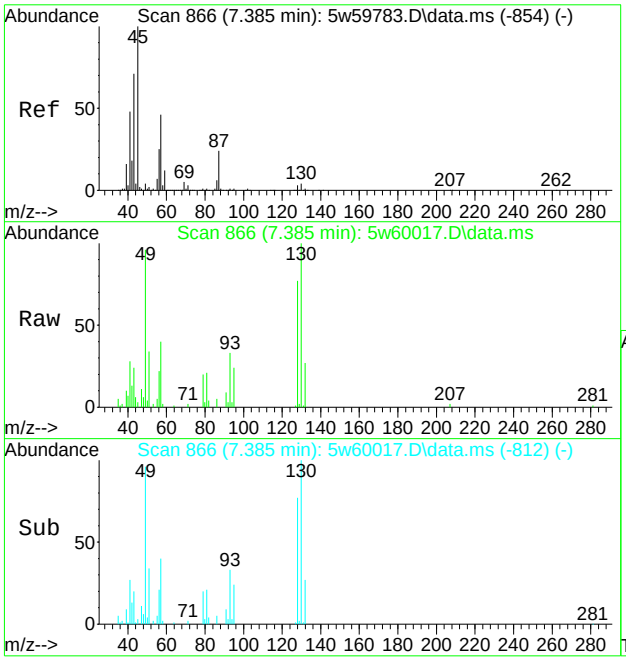


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.9524 PPBV
RT: 5.409 min Scan# 543
Delta R.T. 0.031 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 59 Resp: 90724

Ion	Ratio	Lower	Upper
59	100		
41	20.1	0.0	49.3
43	17.7	0.0	44.1

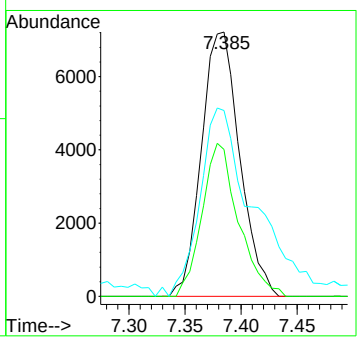


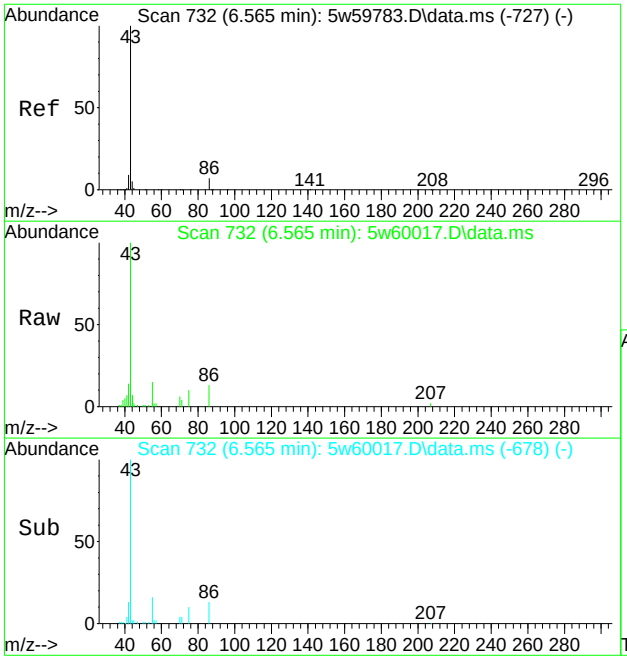


#38
HEXANE
Concen: 0.2267 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 57 Resp: 17197

Ion	Ratio	Lower	Upper
57	100		
56	55.1	25.9	85.9
41	105.4	74.7	134.7

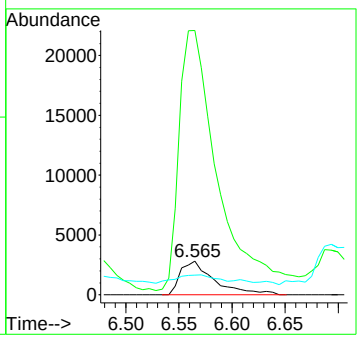


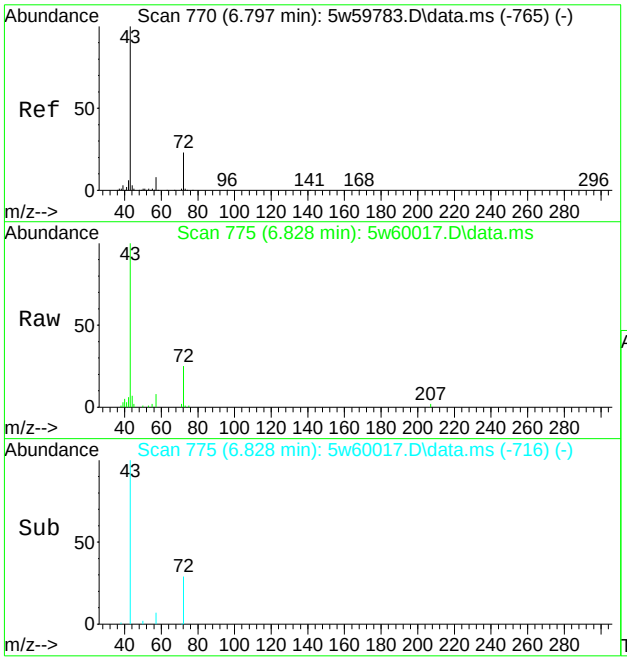


#39
VINYL ACETATE
Concen: 0.8203 PPBV
RT: 6.565 min Scan# 732
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 86 Resp: 6292

Ion	Ratio	Lower	Upper
86	100		
43	890.8	1379.7	1439.7#
44	47.0	36.9	96.9

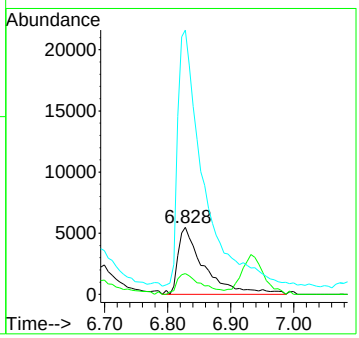


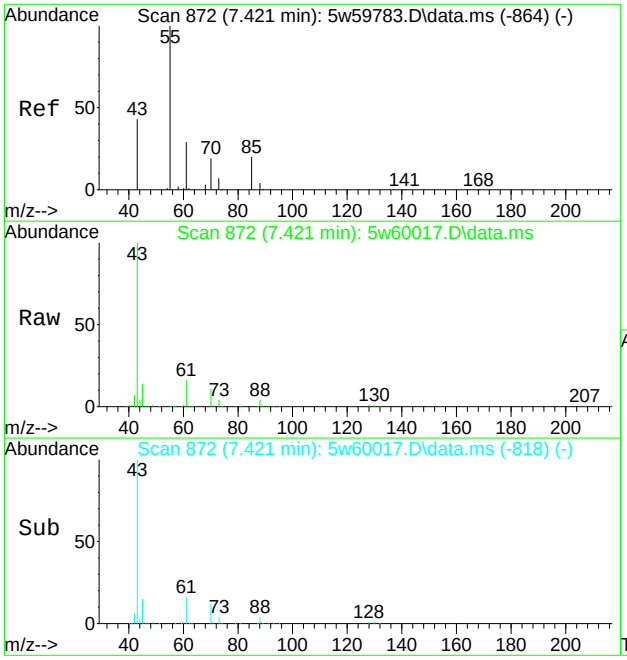


#41
METHYL ETHYL KETONE
Concen: 0.8661 PPBV
RT: 6.828 min Scan# 775
Delta R.T. 0.031 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 72 Resp: 15892

Ion	Ratio	Lower	Upper
72	100		
57	31.2	4.8	64.8
43	394.4	415.9	475.9#

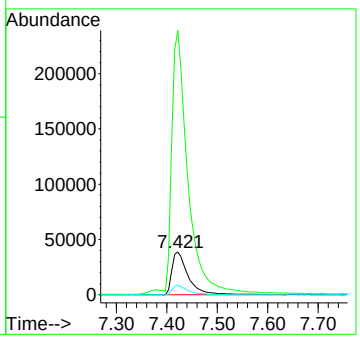


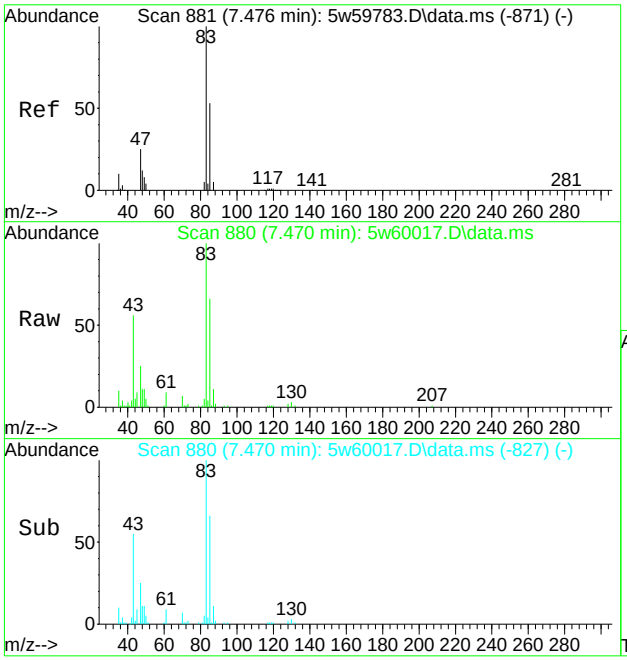


#44
ETHYL ACETATE
Concen: 6.2633 PPBV
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 61 Resp: 87819

Ion	Ratio	Lower	Upper
61	100		
43	602.9	560.5	620.5
88	21.4	4.5	64.5

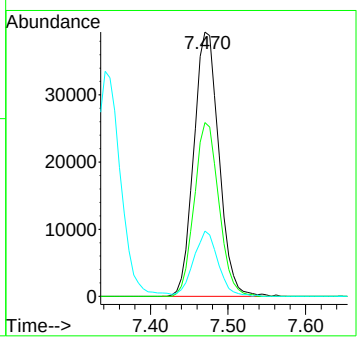


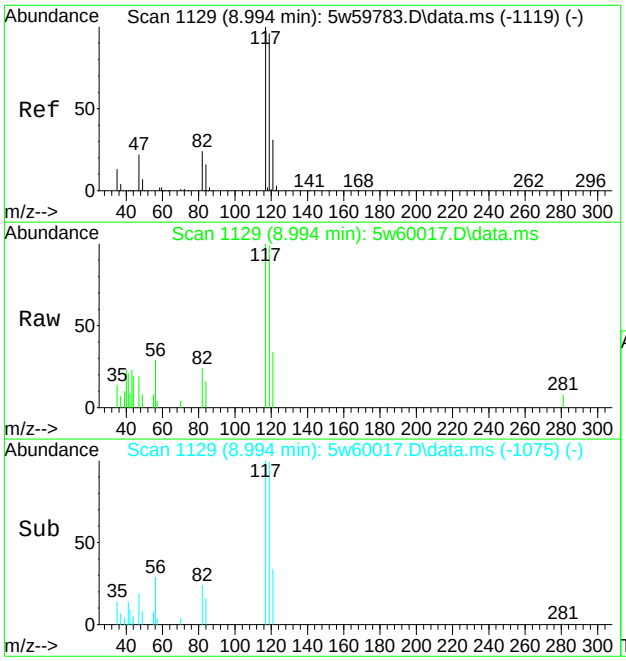


#46
CHLOROFORM
Concen: 0.8388 PPBV
RT: 7.470 min Scan# 880
Delta R.T. -0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 83 Resp: 88598

Ion	Ratio	Lower	Upper
83	100		
85	64.2	35.6	95.6
47	24.1	0.0	55.2

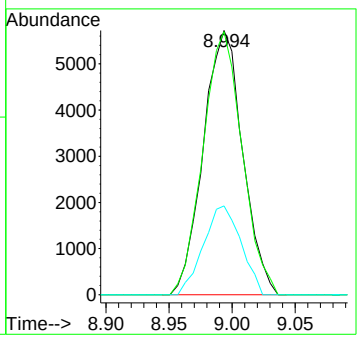


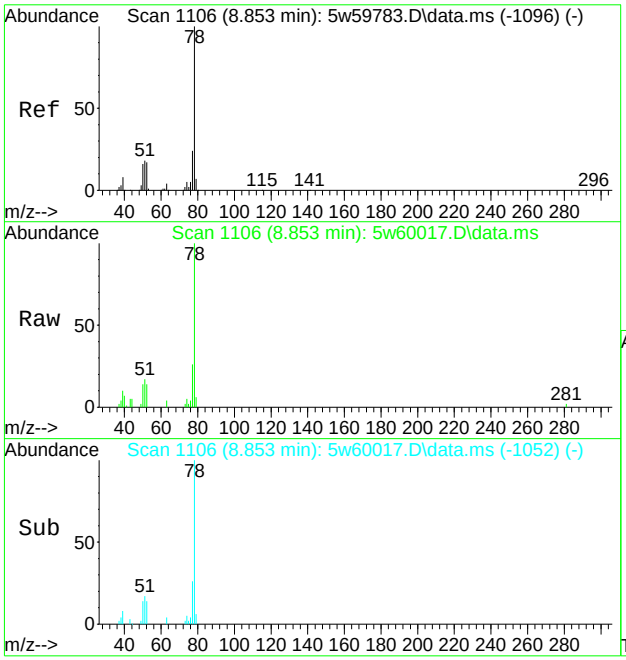


#49
CARBON TETRACHLORIDE
Concen: 0.1037 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:117 Resp: 12412

Ion	Ratio	Lower	Upper
117	100		
119	99.1	66.9	126.9
121	32.1	1.3	61.3

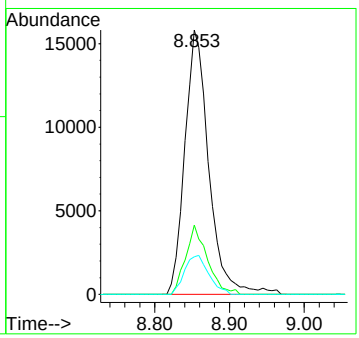


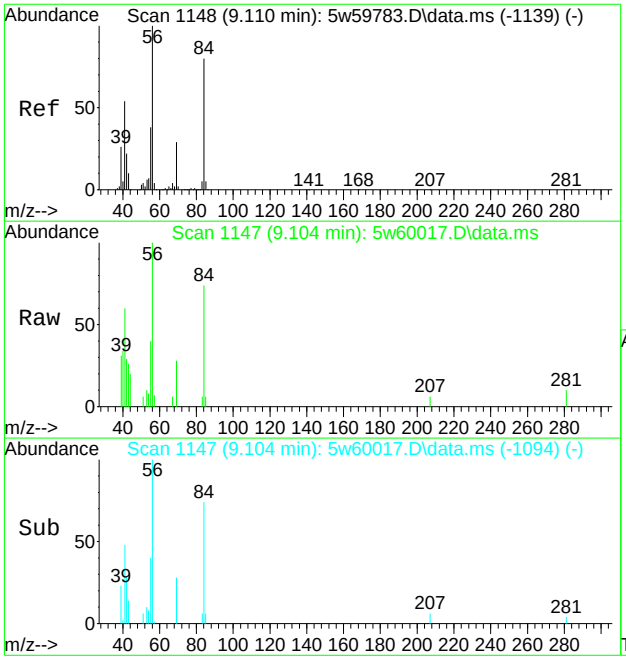


#52
BENZENE
Concen: 0.2457 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 78 Resp: 35174

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.8
52	14.9	0.0	46.9

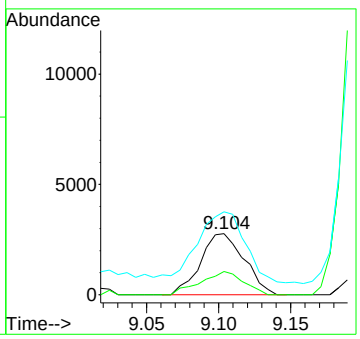


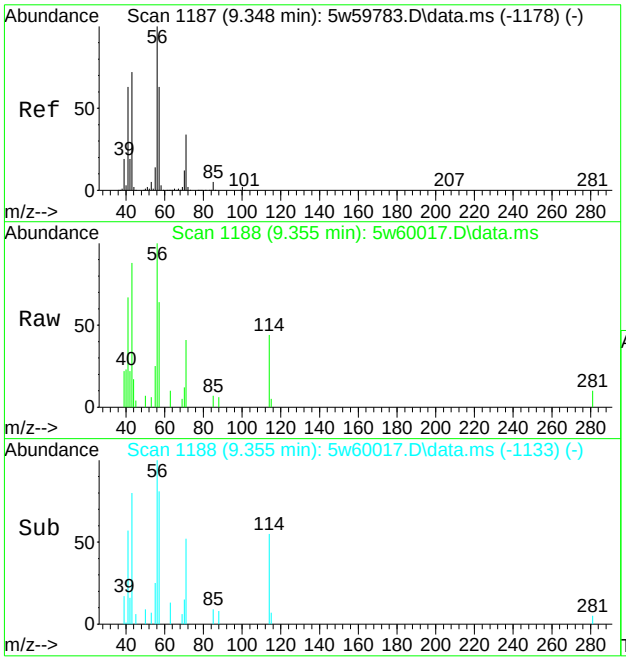


#53
CYCLOHEXANE
Concen: 0.1023 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 84 Resp: 5853

Ion	Ratio	Lower	Upper
84	100		
69	37.4	6.9	66.9
56	165.7	98.2	158.2#

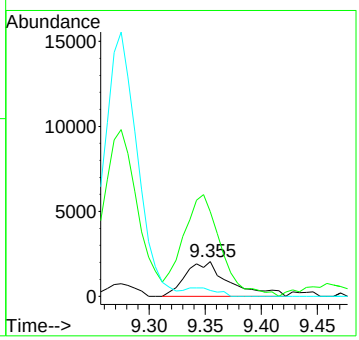


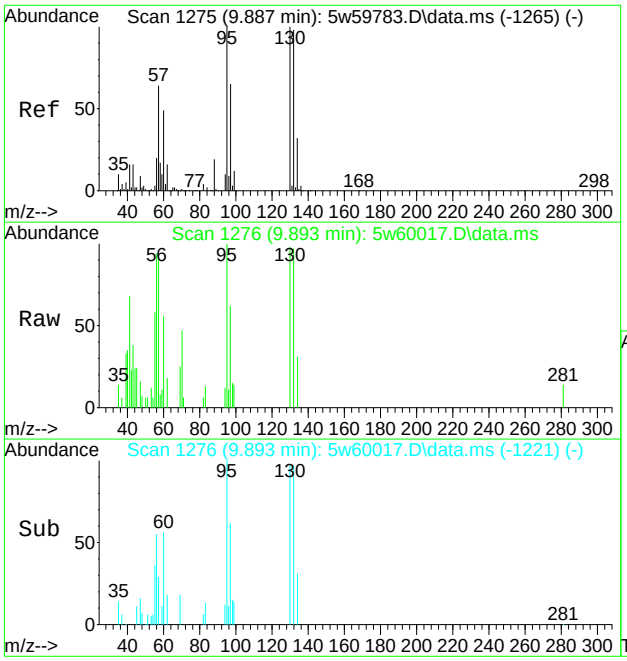


#54
2,3-DIMETHYLPENTANE
Concen: 0.1902 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 71 Resp: 5498

Ion	Ratio	Lower	Upper
71	100		
56	255.2	264.6	324.6#
85	0.0	0.0	45.3

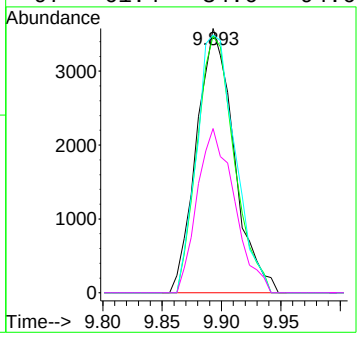


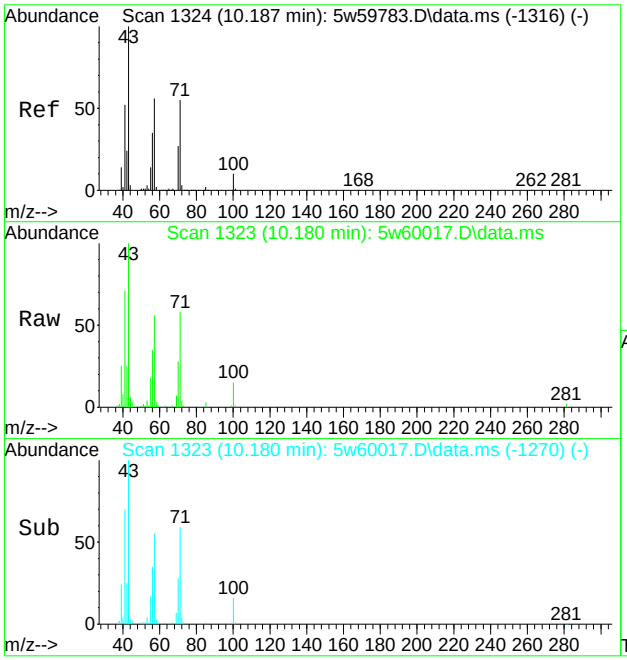


#55
TRICHLOROETHYLENE
Concen: 0.1079 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 95 Resp: 7872

Ion	Ratio	Lower	Upper
95	100		
132	95.4	69.0	129.0
130	99.1	70.6	130.6
97	61.4	34.6	94.6

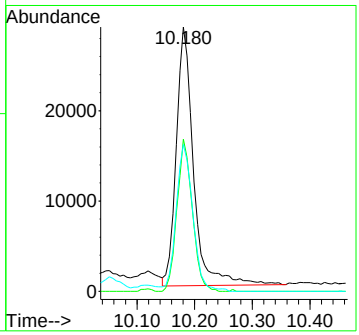


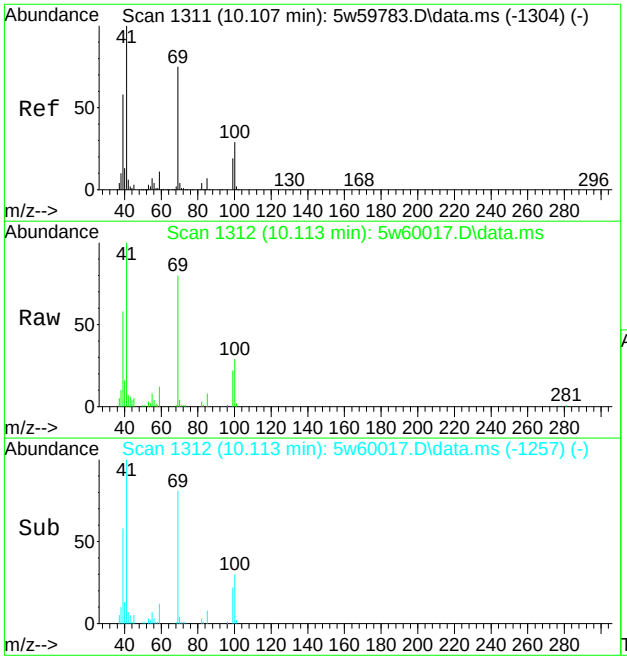


#62
HEPTANE
Concen: 0.7261 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 43 Resp: 59816

Ion	Ratio	Lower	Upper
43	100		
71	52.1	24.5	84.5
57	54.7	26.2	86.2

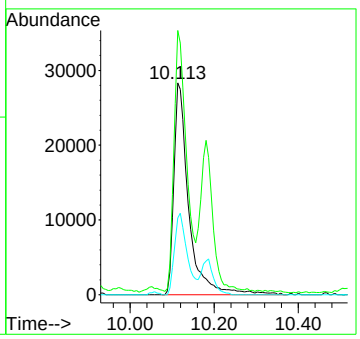


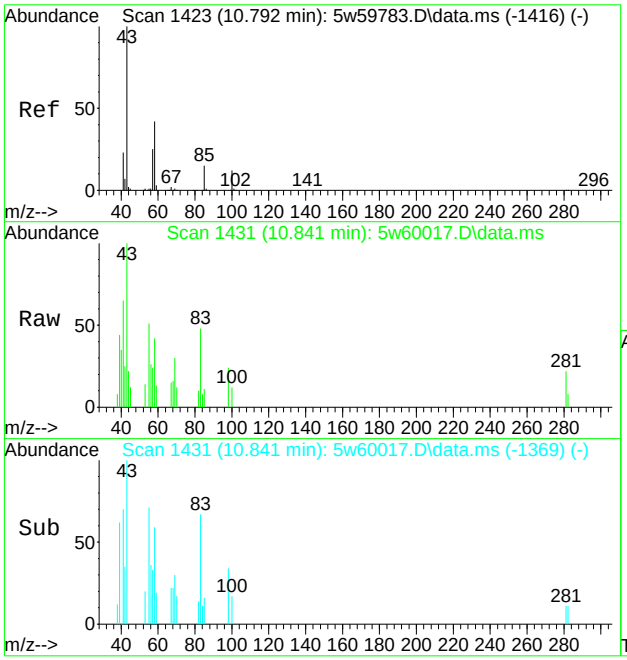


#63
METHYL METHACRYLATE
Concen: 1.4887 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 69 Resp: 69461

Ion	Ratio	Lower	Upper
69	100		
41	104.9	95.3	155.3
100	33.6	6.3	66.3

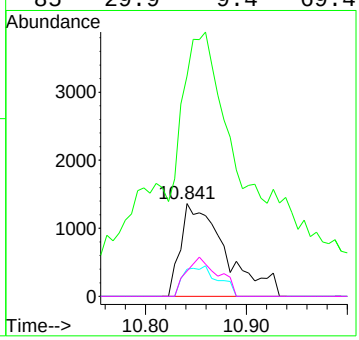


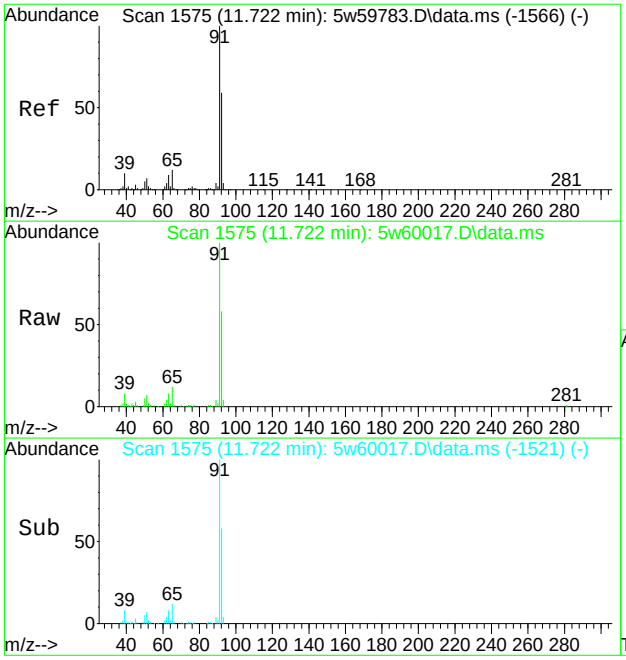


#64
METHYL ISOBUTYL KETONE
Concen: 0.1003 PPBV
RT: 10.841 min Scan# 1431
Delta R.T. 0.049 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 58 Resp: 4235

Ion	Ratio	Lower	Upper
58	100		
43	301.3	209.2	269.2#
100	24.8	0.0	58.8
85	29.9	9.4	69.4

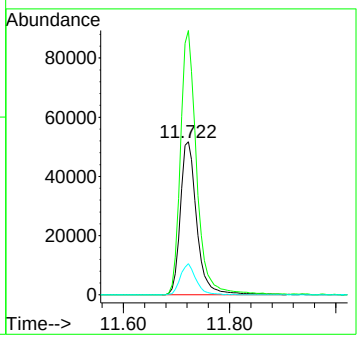


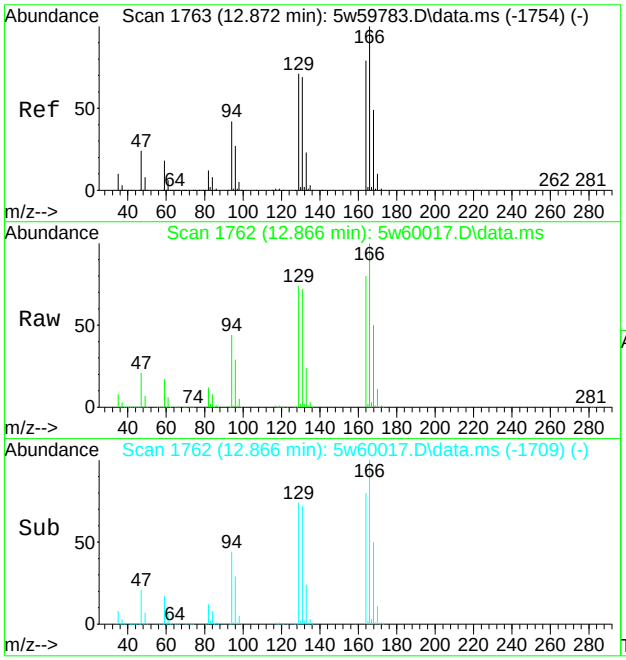


#66
TOLUENE
Concen: 1.0376 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 92 Resp: 111040

Ion	Ratio	Lower	Upper
92	100		
91	170.1	140.1	200.1
65	19.4	0.0	53.1

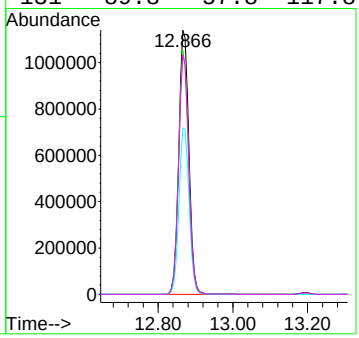


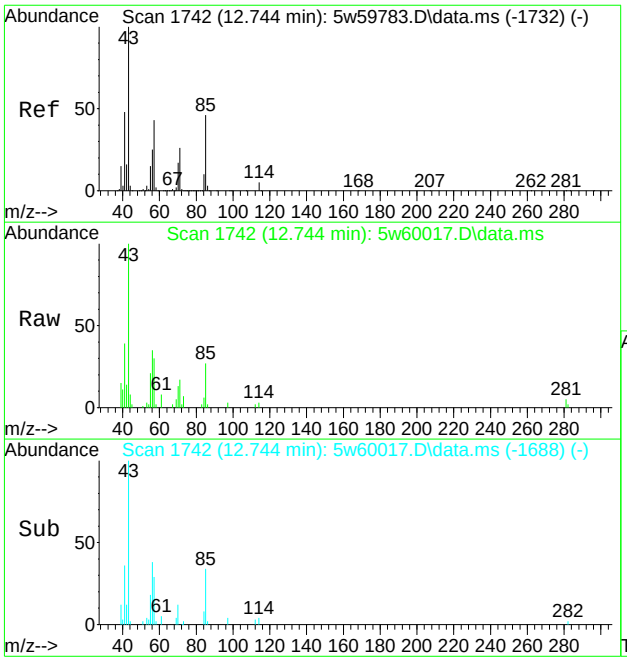


#73
TETRACHLOROETHYLENE
Concen: 31.6012 PPBV
RT: 12.866 min Scan# 1762
Delta R.T. -0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:164 Resp: 2150353

Ion	Ratio	Lower	Upper
164	100		
129	90.8	59.7	119.7
168	63.4	32.2	92.2
131	89.8	57.8	117.8

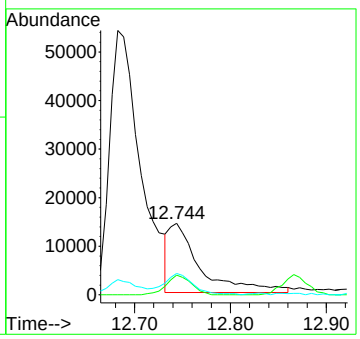


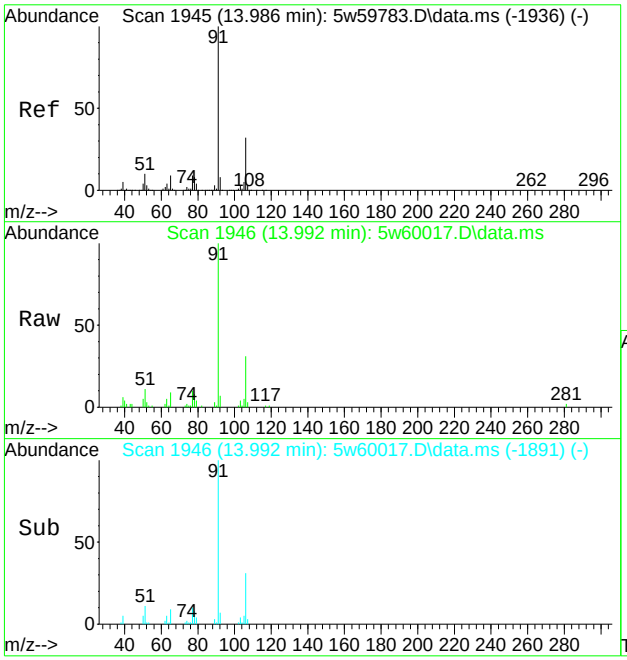


#76
OCTANE
Concen: 0.3456 PPBV m
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 43 Resp: 32748

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	19.5	13.7	73.7

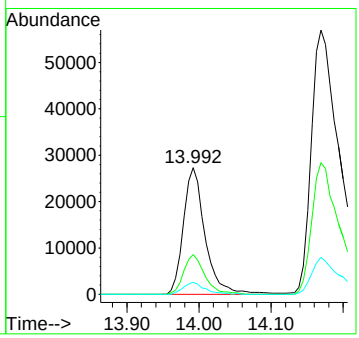


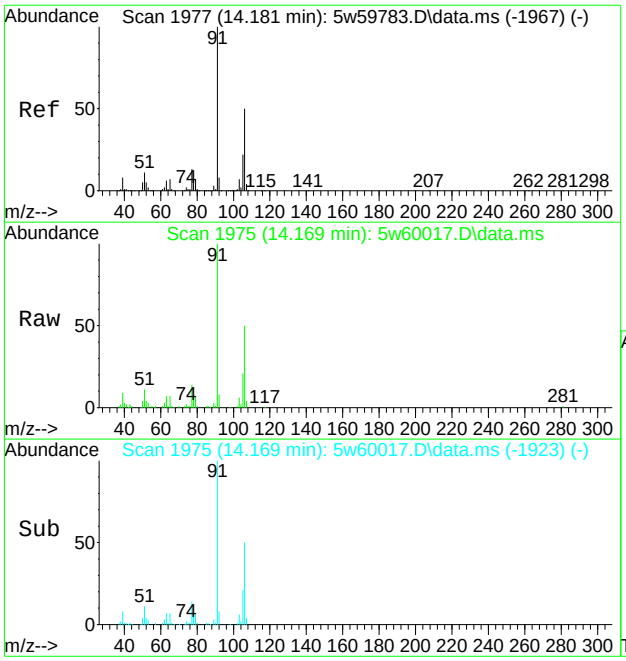


#79
ETHYLBENZENE
Concen: 0.2998 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 91 Resp: 57330

Ion	Ratio	Lower	Upper
91	100		
106	30.5	1.3	61.3
77	9.6	0.0	38.6

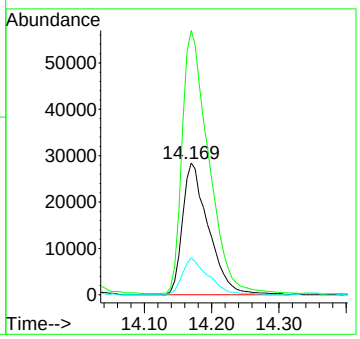


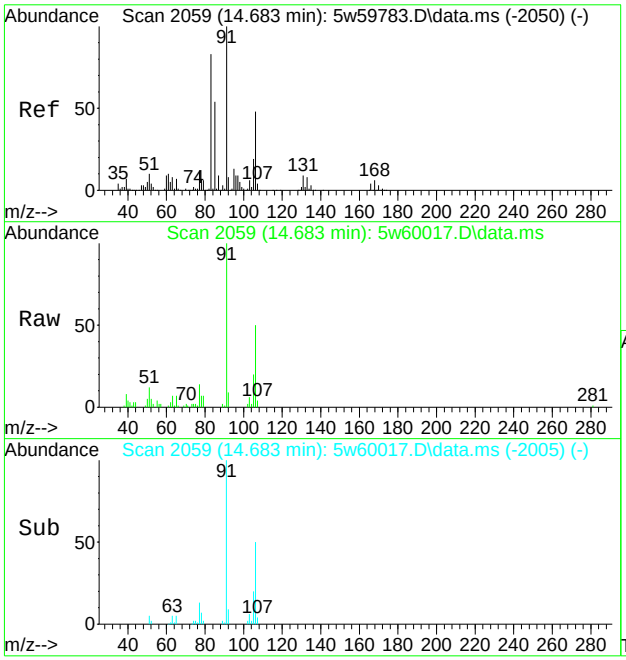


#80
m,p-XYLENE
Concen: 1.0158 PPBV
RT: 14.169 min Scan# 1975
Delta R.T. -0.012 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:106 Resp: 76540

Ion	Ratio	Lower	Upper
106	100		
91	200.5	171.0	231.0
77	28.1	0.0	56.7

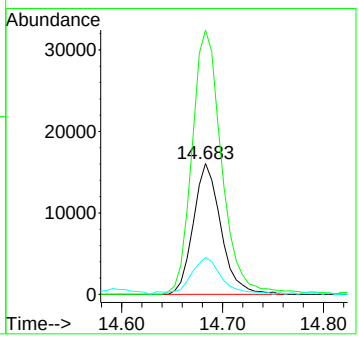


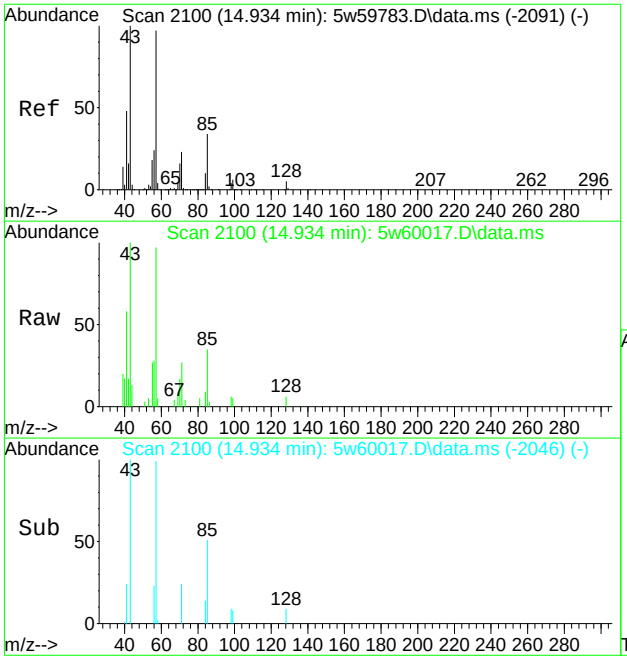


#81
o-XYLENE
Concen: 0.4330 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:106 Resp: 30555

Ion	Ratio	Lower	Upper
106	100		
91	218.6	181.6	241.6
77	31.8	0.0	56.6

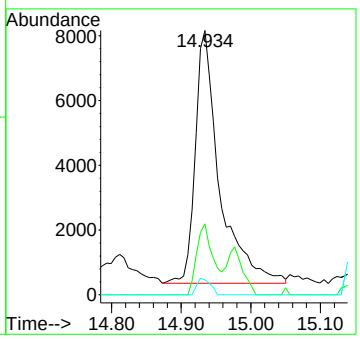


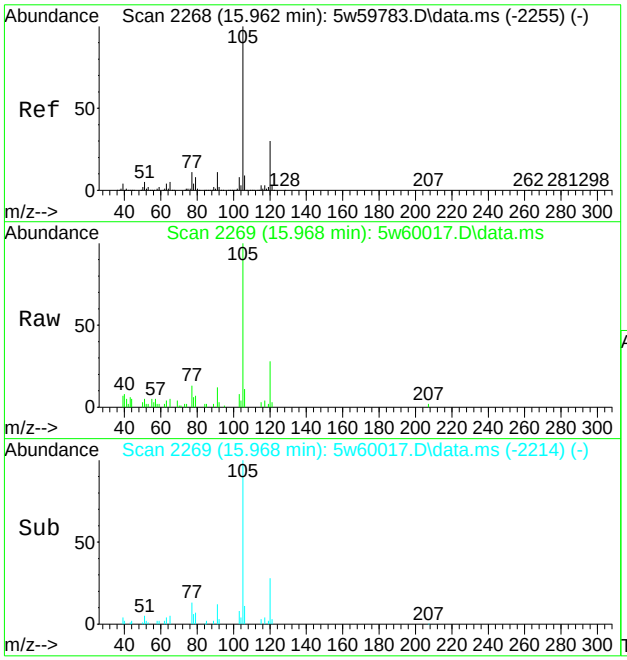


#83
NONANE
Concen: 0.1969 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion: 43 Resp: 18873

Ion	Ratio	Lower	Upper
43	100		
71	19.3	0.0	52.7
128	3.6	0.0	34.7

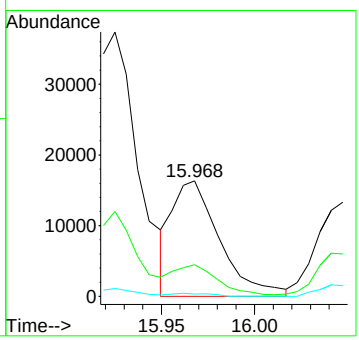


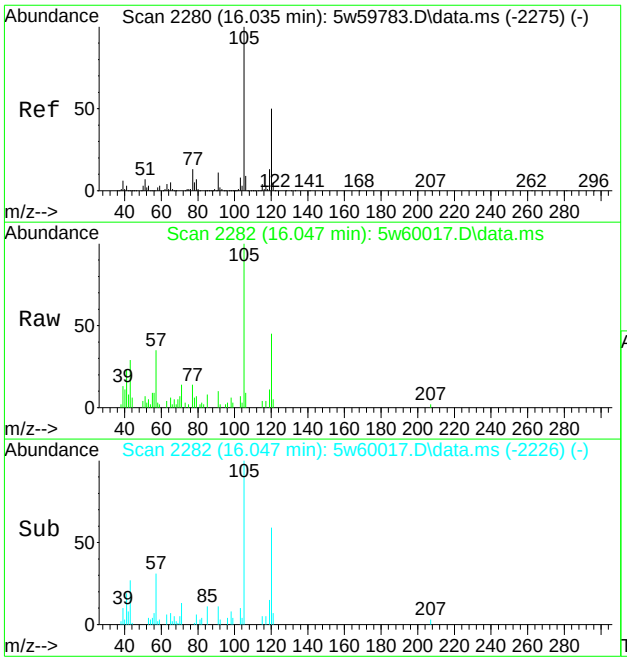


#92
4-ETHYLTOLUENE
Concen: 0.1474 PPBV m
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:105 Resp: 29139

Ion	Ratio	Lower	Upper
105	100		
120	65.4	0.0	59.9#
119	5.9	0.0	32.3

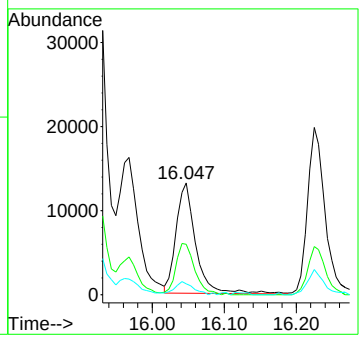


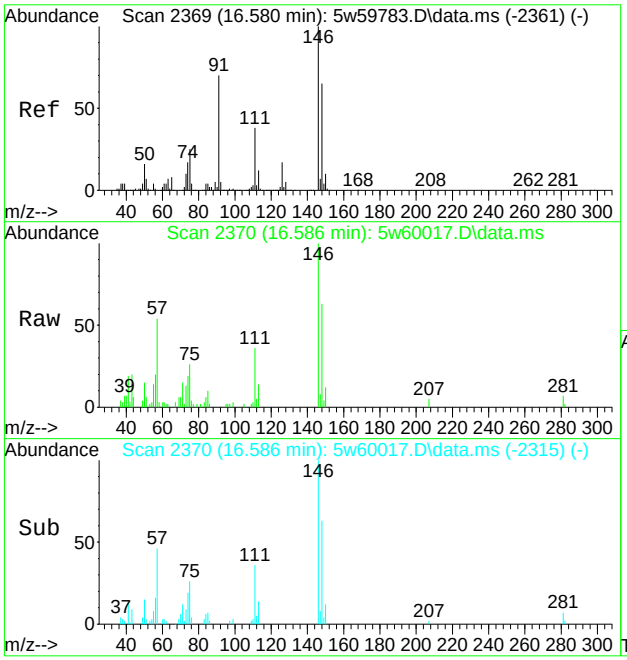


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.1350 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:105 Resp: 24806

Ion	Ratio	Lower	Upper
105	100		
120	45.2	19.4	79.4
91	11.0	0.0	40.8

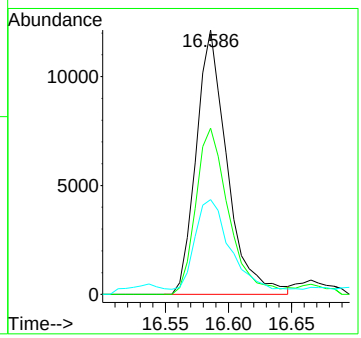


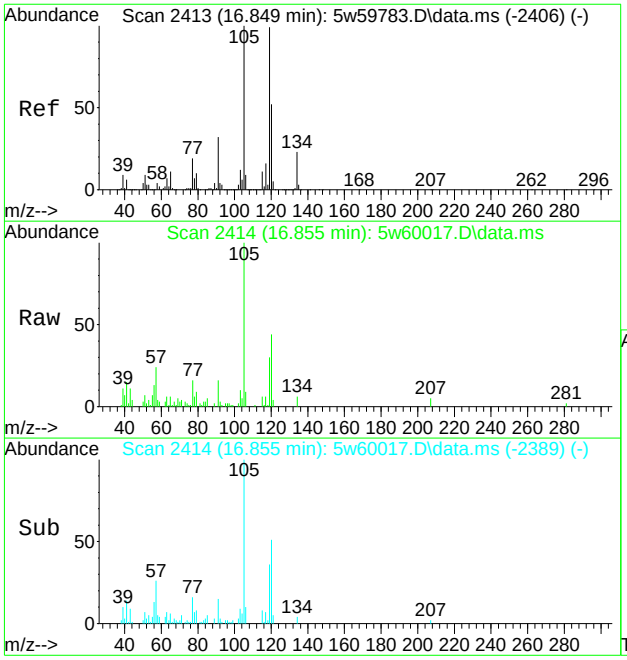


#97
m-DICHLOROBENZENE
Concen: 0.1578 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:146 Resp: 20686

Ion	Ratio	Lower	Upper
146	100		
148	67.6	34.8	94.8
111	46.8	8.2	68.2

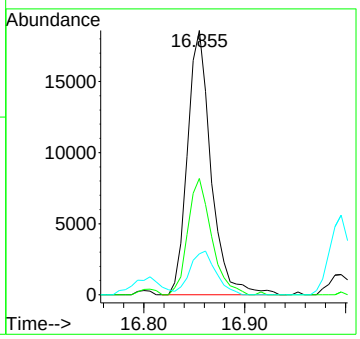


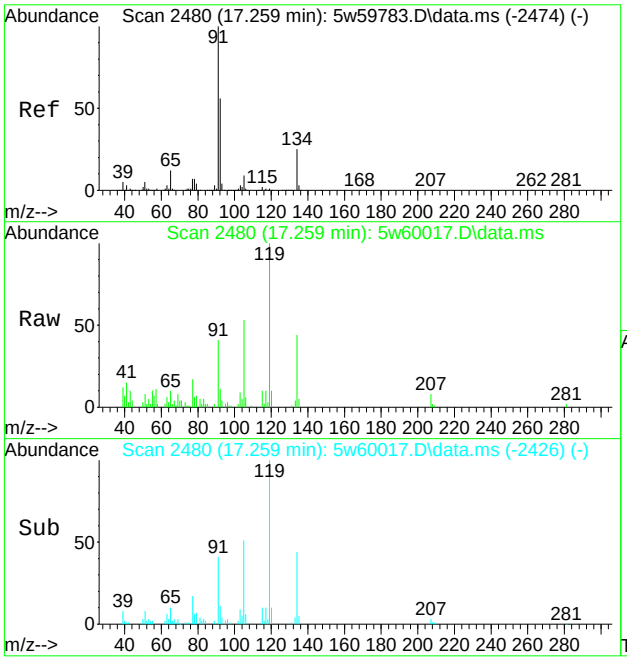


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.1664 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:105 Resp: 30174

Ion	Ratio	Lower	Upper
105	100		
120	44.3	23.5	83.5
91	18.2	7.4	67.4

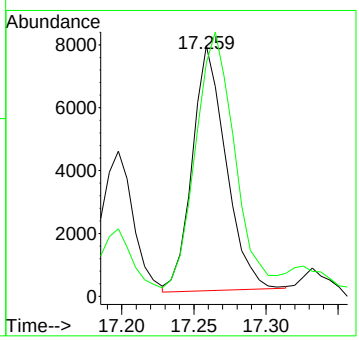


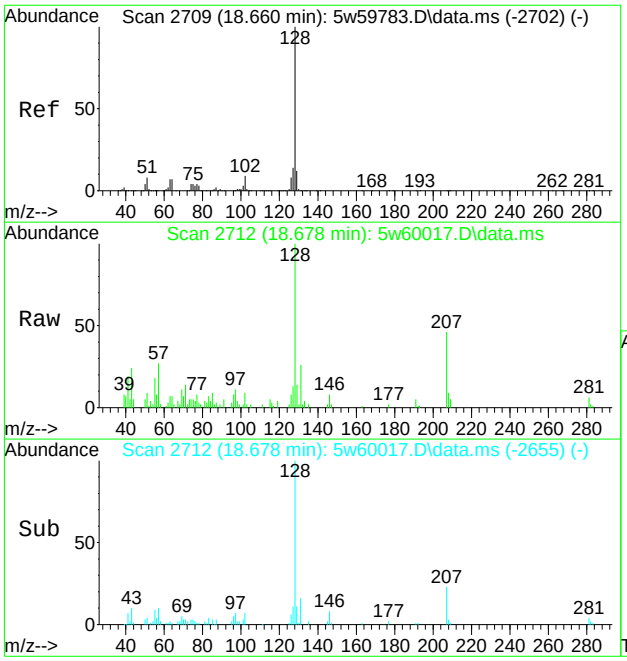


#104
n-BUTYLBENZENE
Concen: 0.2418 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:134 Resp: 12683

Ion	Ratio	Lower	Upper
134	100		
91	136.3	363.1	423.1#

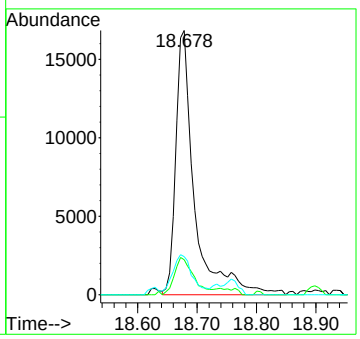




#108
NAPHTHALENE
Concen: 0.1402 PPBV
RT: 18.678 min Scan# 2712
Delta R.T. 0.018 min
Lab File: 5w60017.D
Acq: 24 Nov 2025 11:02 pm

Tgt Ion:128 Resp: 37215

Ion	Ratio	Lower	Upper
128	100		
127	17.2	0.0	43.3
129	16.1	0.0	41.4



Manual Integration Approval Summary

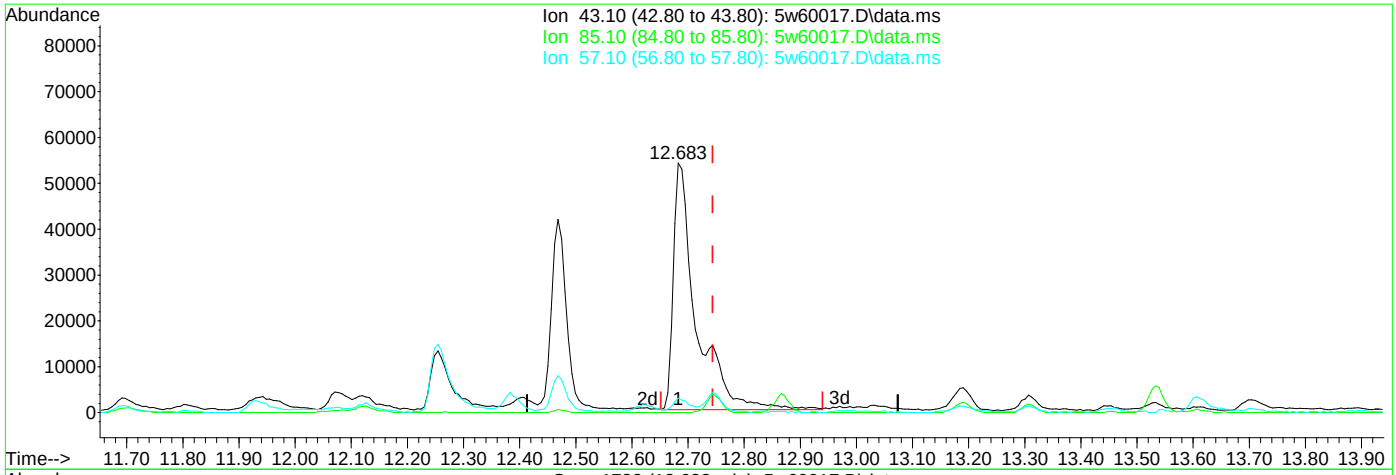
Sample Number: JE23793-3
Lab FileID: 5W60017.D
Injection Time: 11/24/25 23:02
Method: TO-15
Analyst approved: 11/25/25 13:00 Claire Basilio
Supervisor approved: 11/27/25 01:48 Kanya Veerawat

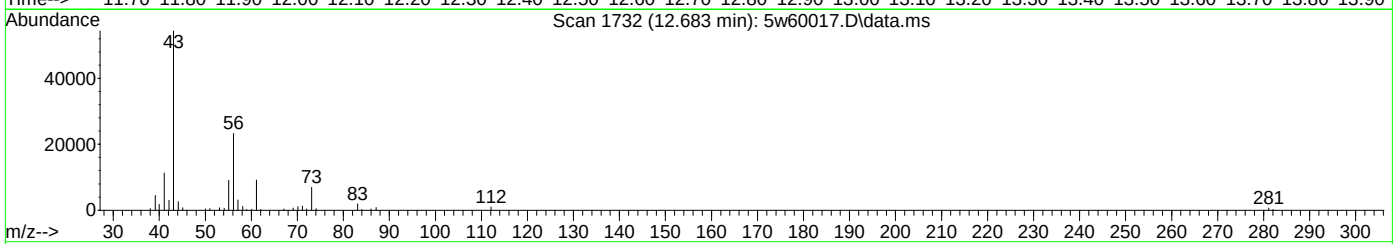
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octane	111-65-9		12.74	Overlapping peak
4-Ethyltoluene	622-96-8		15.97	Missed peak

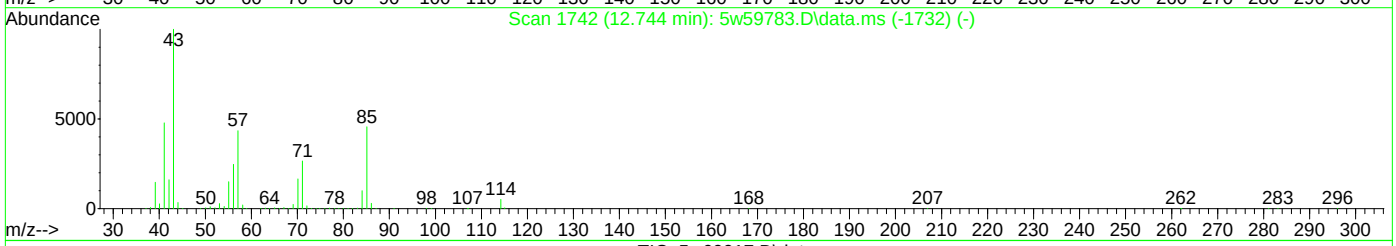
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60017.D
Acq On : 24 Nov 2025 11:02 pm
Operator : benk
Sample : je23793-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 23:05:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60017.D\data.ms

(76) OCTANE

12.683min (-0.061) 1.61PPBV

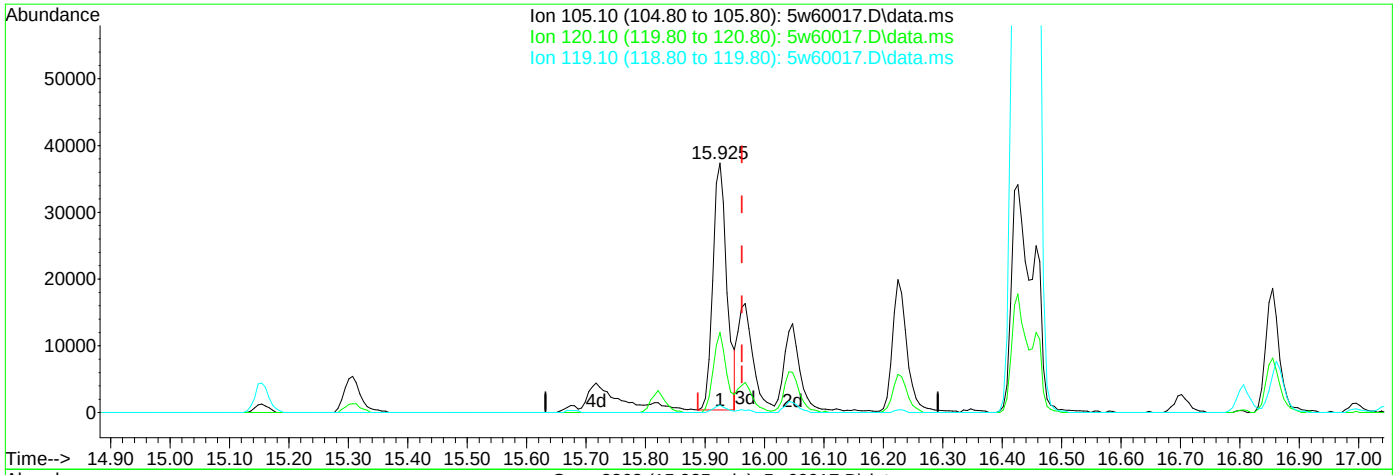
response 152824

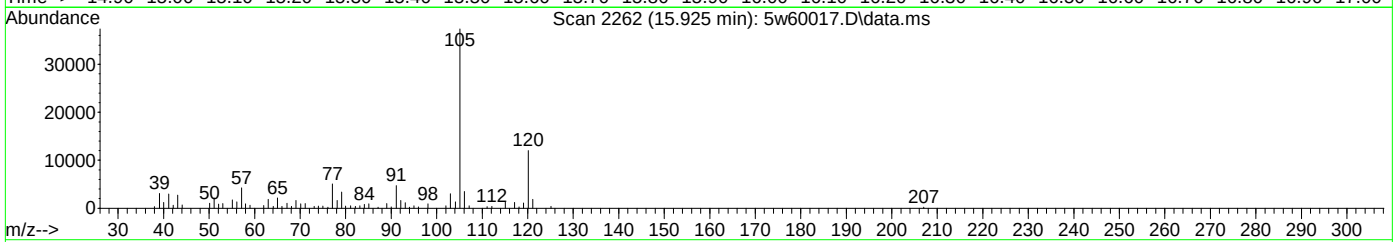
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	4.18#
0.00	0.00	0.00

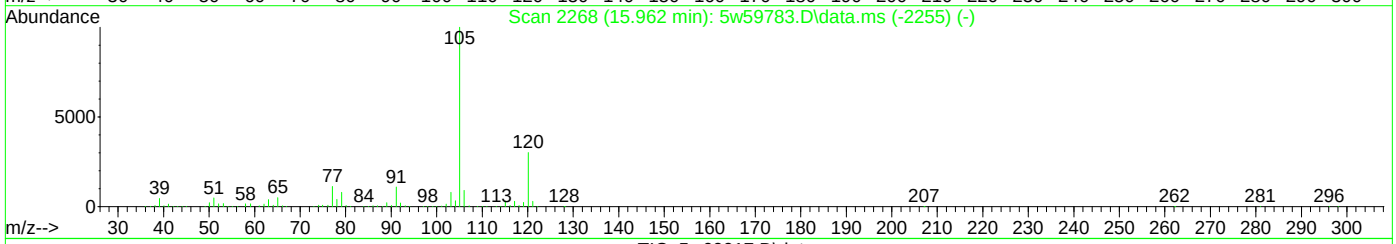
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60017.D
Acq On : 24 Nov 2025 11:02 pm
Operator : benk
Sample : je23793-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 01:40:51 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60017.D\data.ms

(92) 4-ETHYLTOLUENE

15.925min (-0.037) 0.31PPBV

response 61611

Ion	Exp%	Act%
105.10	100	100
120.10	29.90	30.93
119.10	2.30	2.79
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/28/25 18:40

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 5w60018.D
Acq On : 24 Nov 2025 11:46 pm
Operator : benk
Sample : je23793-4 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 26 01:49:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

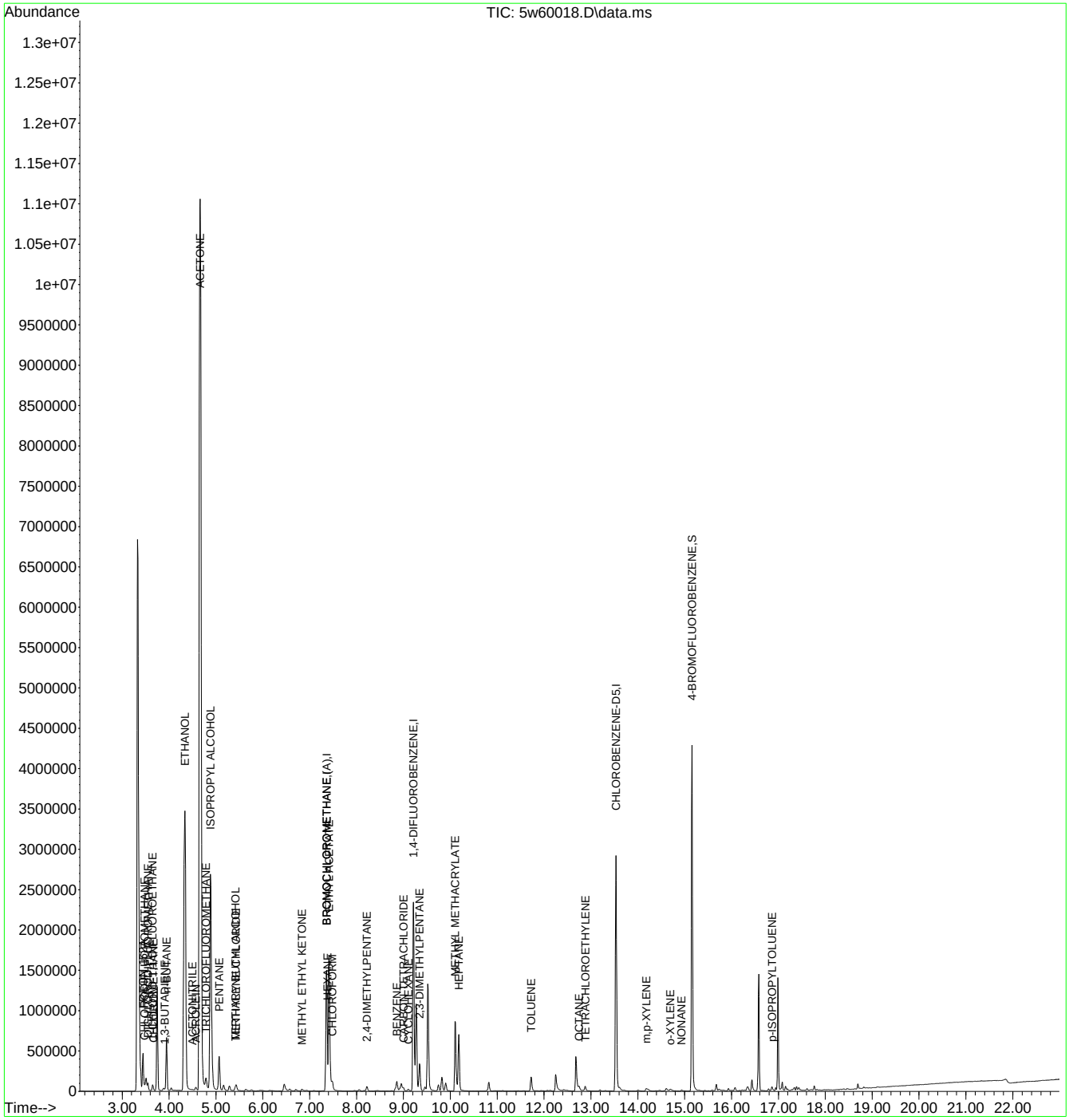
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	474848	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2108916	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1017029	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	474848	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1428564	11.24	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 112.40%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	208501	5.9205	PPBV	96
4) CHLORODIFLUOROMETHANE	3.475	67	10569	0.7175	PPBV	80
6) DICHLORODIFLUOROMETHANE	3.549	85	87527	0.6441	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	33288	0.3025	PPBV #	18
10) CHLOROMETHANE	3.665	52	10785	0.7227	PPBV	100
12) 1,3-BUTADIENE	3.910	54	8144	0.2941	PPBV #	34
13) n-BUTANE	3.946	43	568031	12.5514	PPBV	97
17) ACETONITRILE	4.497	41	4291	0.1660	PPBV #	79
18) ACROLEIN	4.570	56	36751	2.5015	PPBV	88
21) TRICHLOROFLUOROMETHANE	4.785	101	104583	0.9010	PPBV	99
22) ISOPROPYL ALCOHOL	4.882	45	4264304	45.7961	PPBV	97
23) ACETONE	4.662	58	7326147	393.3771	PPBV	93
24) PENTANE	5.066	42	176291	3.6441	PPBV	99
28) ETHANOL	4.338	45	6163418	395.0875	PPBV	99
31) METHYLENE CHLORIDE	5.427	84	26565	0.5575	PPBV	93
35) TERTIARY BUTYL ALCOHOL	5.415	59	52897	0.5556	PPBV #	52
38) HEXANE	7.378	57	22383	0.2953	PPBV #	33
41) METHYL ETHYL KETONE	6.834	72	11954	0.6517	PPBV #	77
44) ETHYL ACETATE	7.409	61	348003	24.8304	PPBV	95
46) CHLOROFORM	7.482	83	76519	0.7247	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	29619	0.3452	PPBV	99
49) CARBON TETRACHLORIDE	9.000	117	24629	0.2059	PPBV	98
52) BENZENE	8.859	78	113053	0.8002	PPBV	98
53) CYCLOHEXANE	9.104	84	9551	0.1692	PPBV	89
54) 2,3-DIMETHYLPENTANE	9.342	71	59800	2.0966	PPBV	93
62) HEPTANE	10.180	43	287063	3.5311	PPBV	96
63) METHYL METHACRYLATE	10.101	69	391679	8.5061	PPBV	91
66) TOLUENE	11.722	92	93187	0.8824	PPBV	97
73) TETRACHLOROETHYLENE	12.878	164	14724	0.2122	PPBV	95
76) OCTANE	12.744	43	60643m	0.6277	PPBV	
80) m,p-XYLENE	14.181	106	16948	0.2206	PPBV	98
81) o-XYLENE	14.695	106	7284	0.1013	PPBV	90
83) NONANE	14.934	43	10404	0.1065	PPBV #	86
102) p-ISOPROPYLTOLUENE	16.861	134	5370	0.0983	PPBV	91

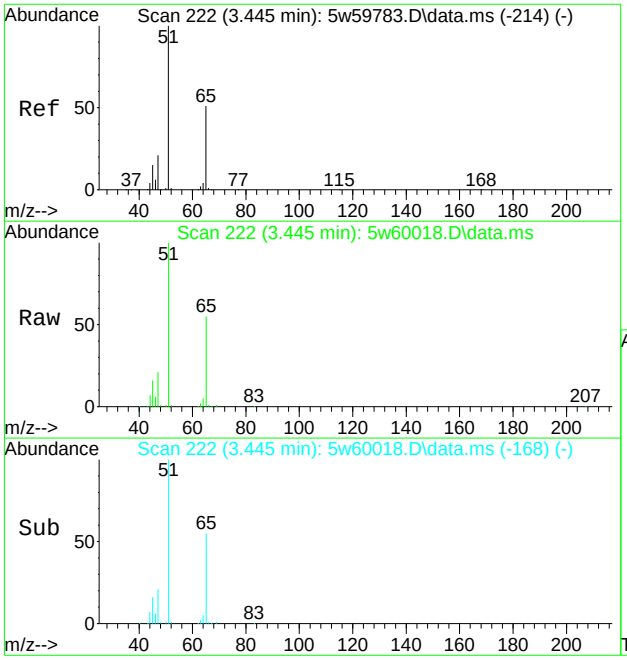
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60018.D
Acq On : 24 Nov 2025 11:46 pm
Operator : benk
Sample : je23793-4 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 26 01:49:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

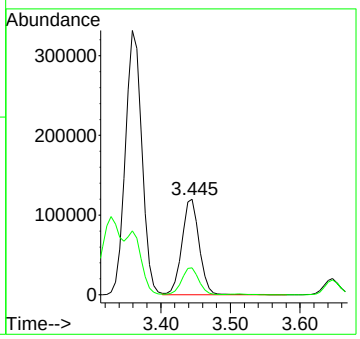


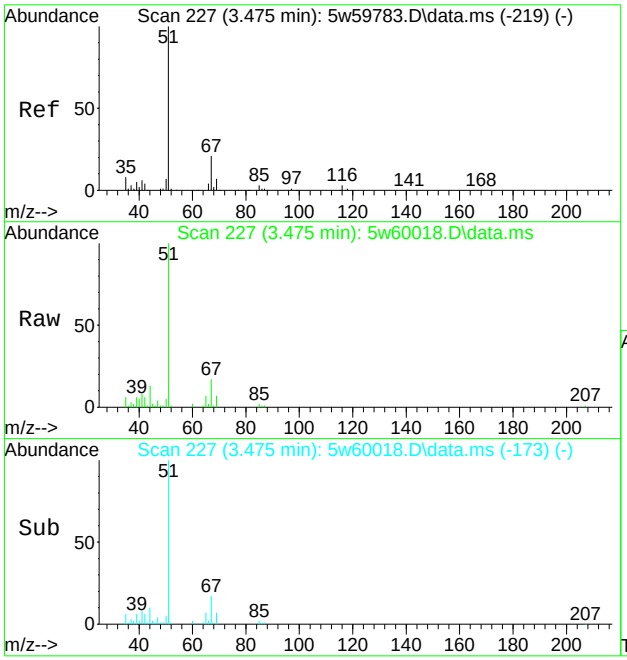


#3
FREON 152A
Concen: 5.9205 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 65 Resp: 208501

Ion	Ratio	Lower	Upper
65	100		
45	27.9	0.0	60.0

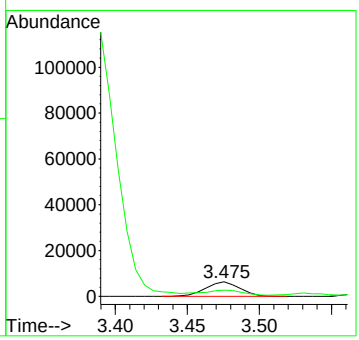


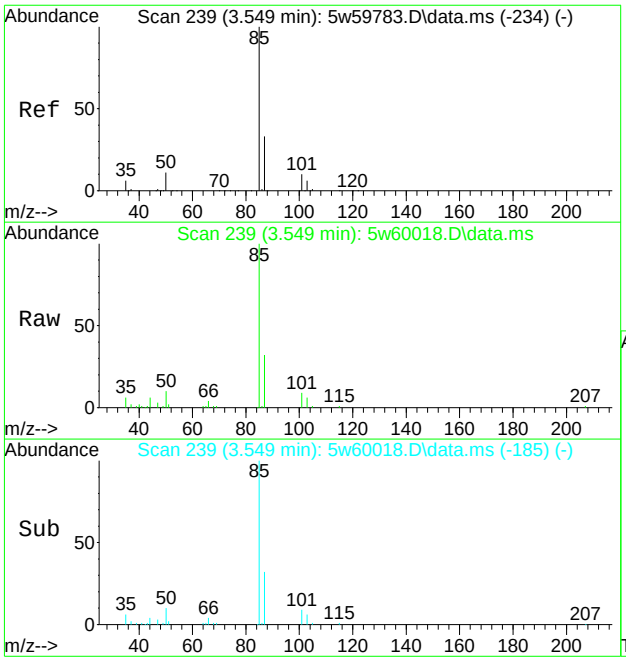


#4
CHLORODIFLUOROMETHANE
Concen: 0.7175 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 67 Resp: 10569

Ion	Ratio	Lower	Upper
67	100		
69	42.1	1.0	61.0

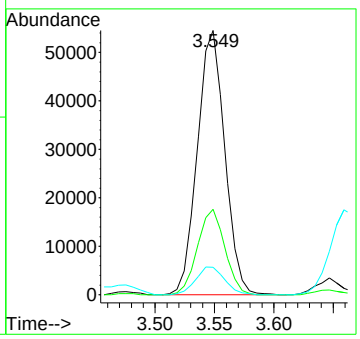


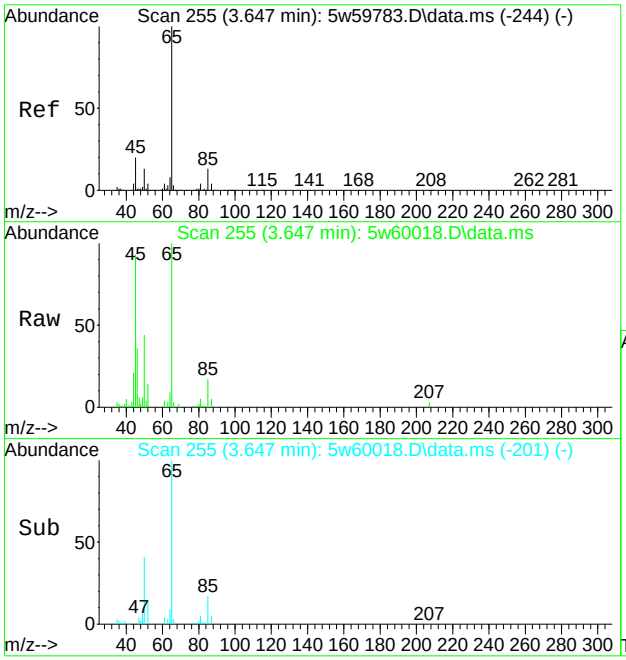


#6
DICHLORODIFLUOROMETHANE
Concen: 0.6441 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 85 Resp: 87527

Ion	Ratio	Lower	Upper
85	100		
87	32.3	2.5	62.5
50	11.2	0.0	41.7

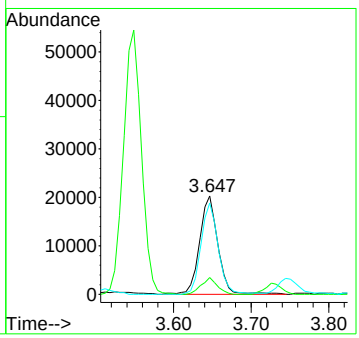


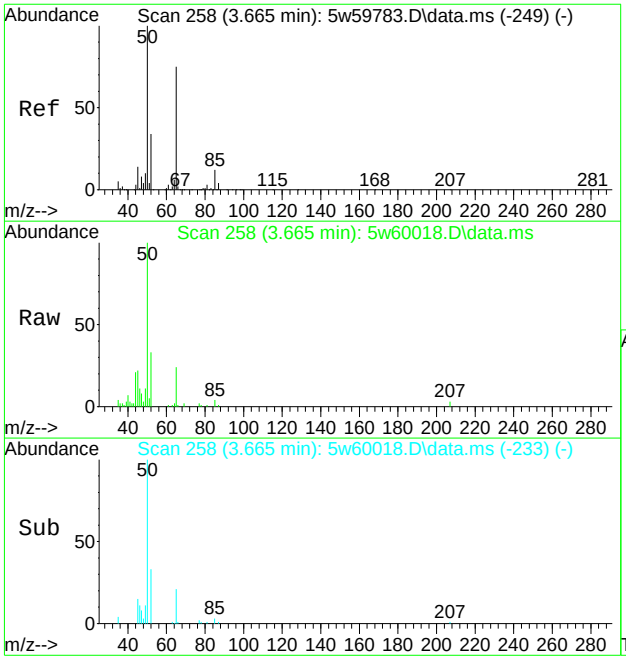


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.3025 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 65 Resp: 33288

Ion	Ratio	Lower	Upper
65	100		
85	15.0	11.5	21.3
45	87.6	14.0	26.0#

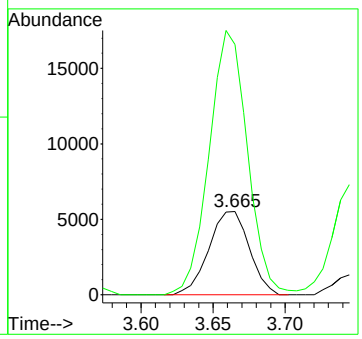


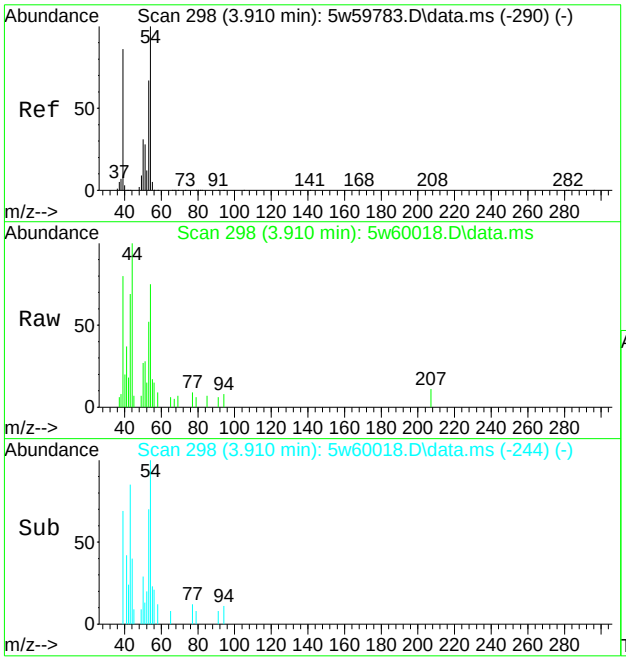


#10
CHLOROMETHANE
Concen: 0.7227 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 52 Resp: 10785

Ion	Ratio	Lower	Upper
52	100		
50	297.5	267.9	327.9

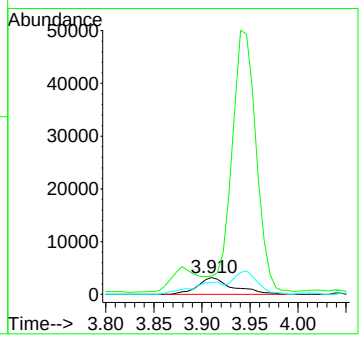


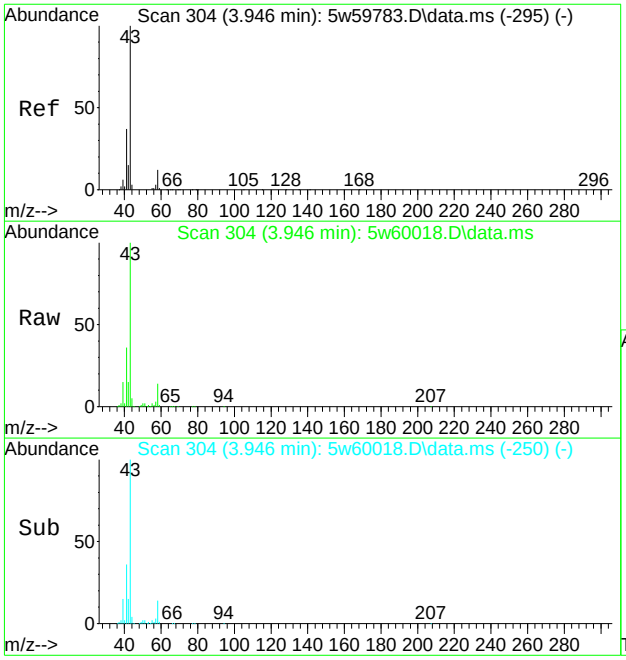


#12
1,3-BUTADIENE
Concen: 0.2941 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 54 Resp: 8144

Ion	Ratio	Lower	Upper
54	100		
39	0.0	82.0	142.0#
53	66.4	40.2	100.2

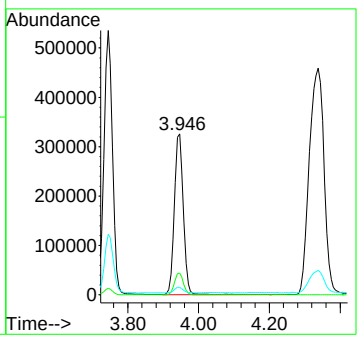


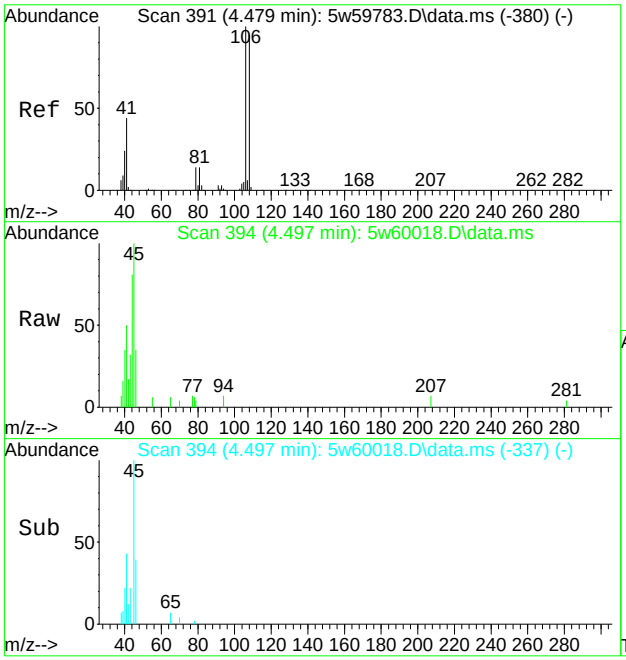


#13
n-BUTANE
Concen: 12.5514 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 43 Resp: 568031

Ion	Ratio	Lower	Upper
43	100		
58	13.6	0.0	42.6
44	3.6	0.0	34.9

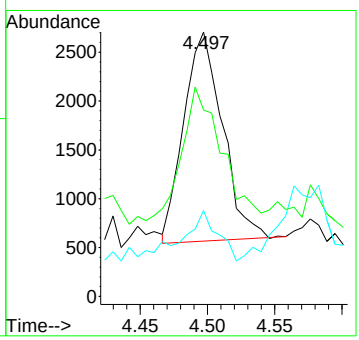


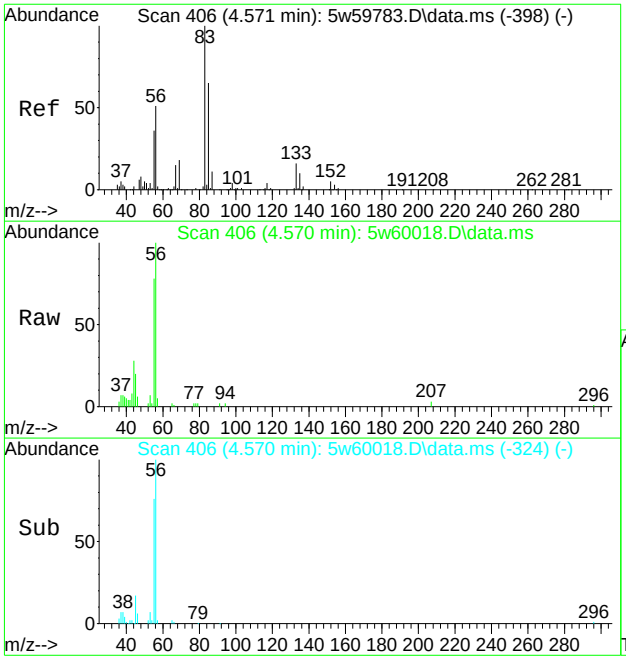


#17
ACETONITRILE
Concen: 0.1660 PPBV
RT: 4.497 min Scan# 394
Delta R.T. 0.018 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 41 Resp: 4291

Ion	Ratio	Lower	Upper
41	100		
40	71.3	37.9	70.5#
39	13.0	13.4	24.8#

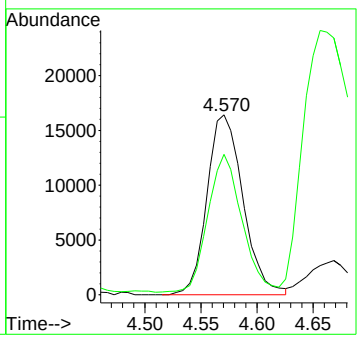


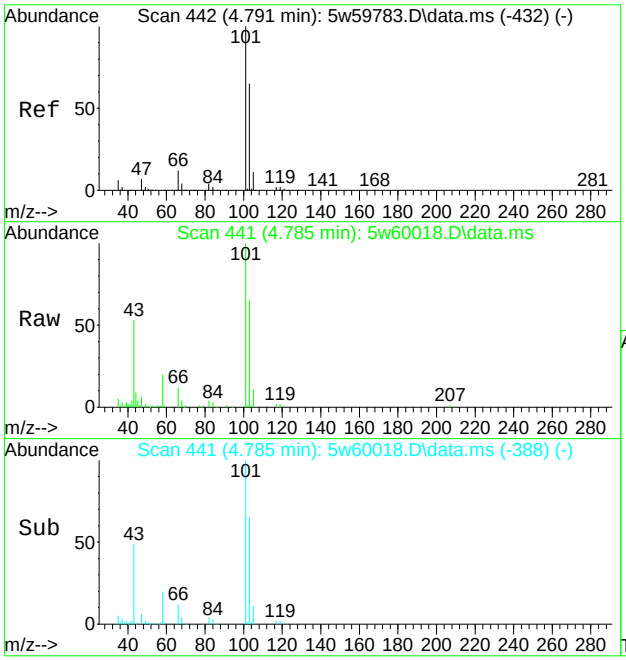


#18
ACROLEIN
Concen: 2.5015 PPBV
RT: 4.570 min Scan# 406
Delta R.T. -0.001 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 56 Resp: 36751

Ion	Ratio	Lower	Upper
56	100		
55	76.3	46.6	86.6

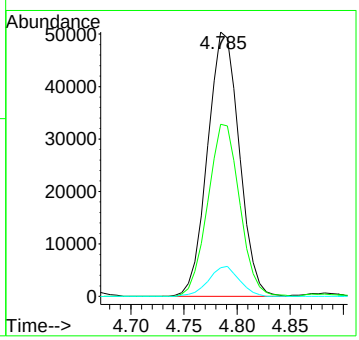


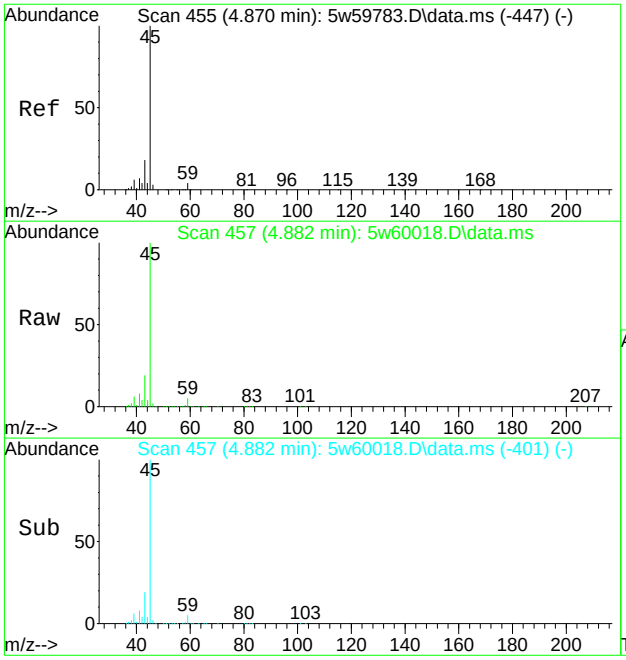


#21
TRICHLOROFLUOROMETHANE
Concen: 0.9010 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion:101 Resp: 104583

Ion	Ratio	Lower	Upper
101	100		
103	65.4	35.0	95.0
105	11.1	0.0	40.7

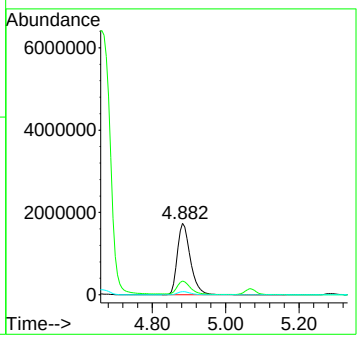


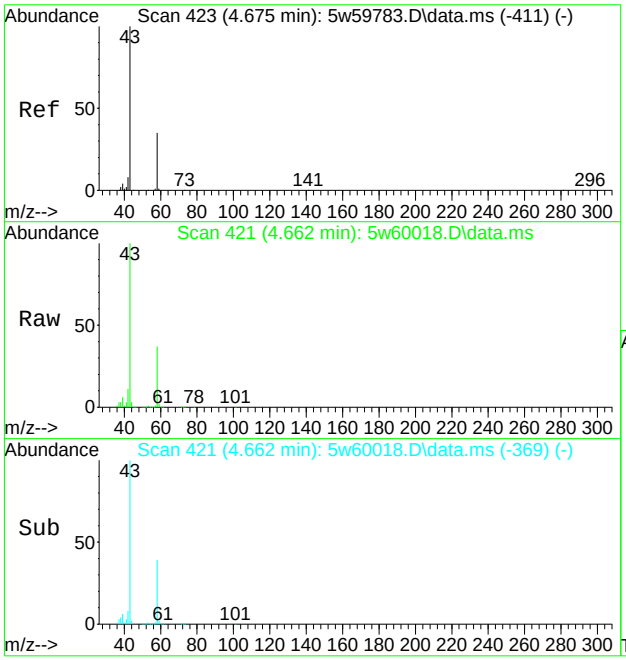


#22
ISOPROPYL ALCOHOL
Concen: 45.7961 PPBV
RT: 4.882 min Scan# 457
Delta R.T. 0.012 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 45 Resp: 4264304

Ion	Ratio	Lower	Upper
45	100		
43	19.2	0.0	47.8
59	4.6	0.0	34.1

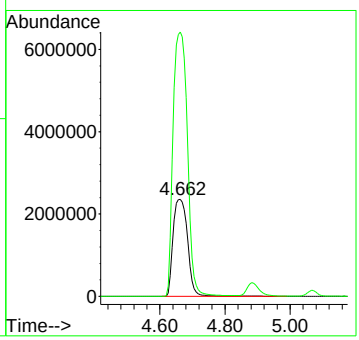


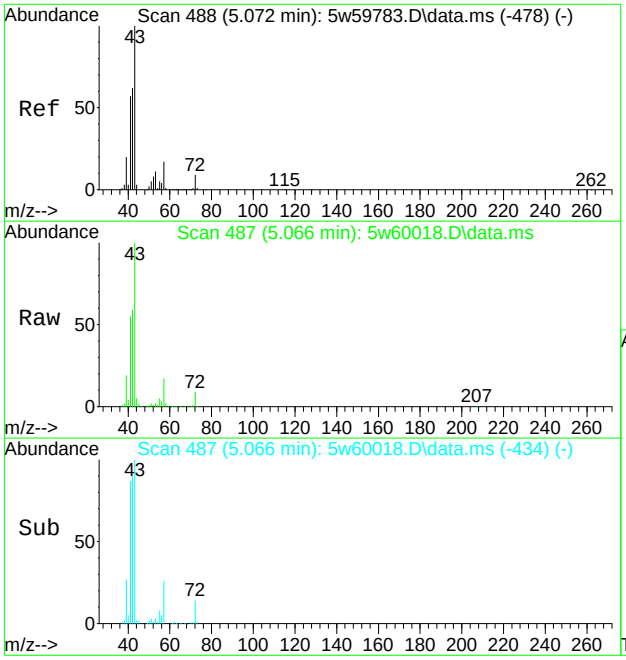


#23
ACETONE
Concen: 393.3771 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 58 Resp: 7326147

Ion	Ratio	Lower	Upper
58	100		
43	269.0	252.3	312.3

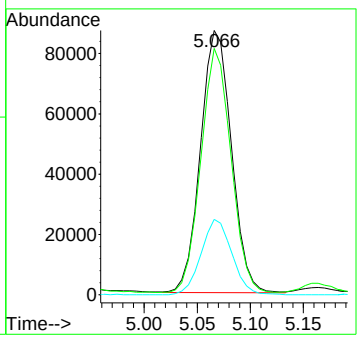


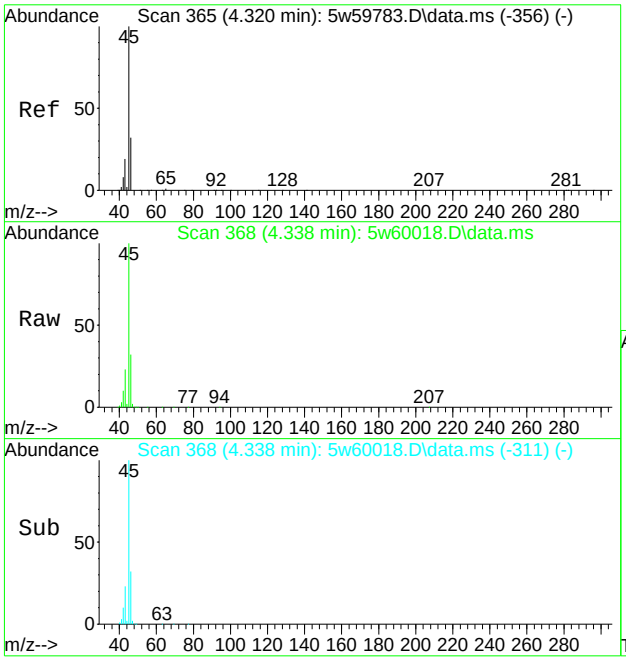


#24
PENTANE
Concen: 3.6441 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 42 Resp: 176291

Ion	Ratio	Lower	Upper
42	100		
41	91.4	62.3	122.3
57	28.5	0.0	57.7

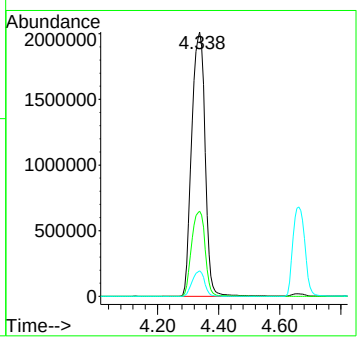


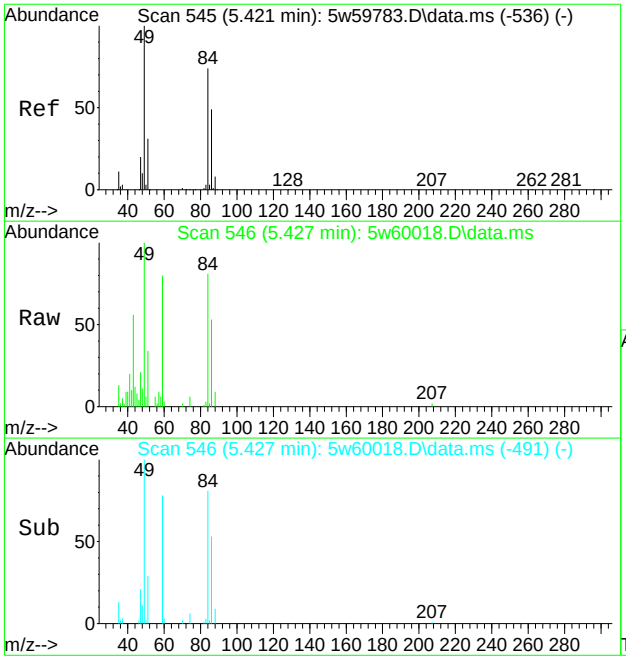


#28
ETHANOL
Concen: 395.0875 PPBV
RT: 4.338 min Scan# 368
Delta R.T. 0.018 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 45 Resp: 6163418

Ion	Ratio	Lower	Upper
45	100		
46	32.8	2.0	62.0
42	9.0	0.0	38.5

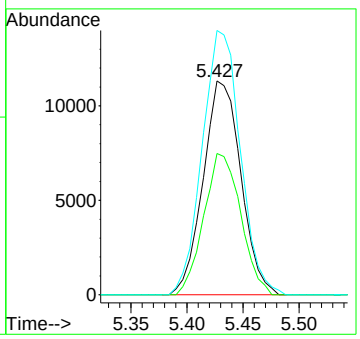


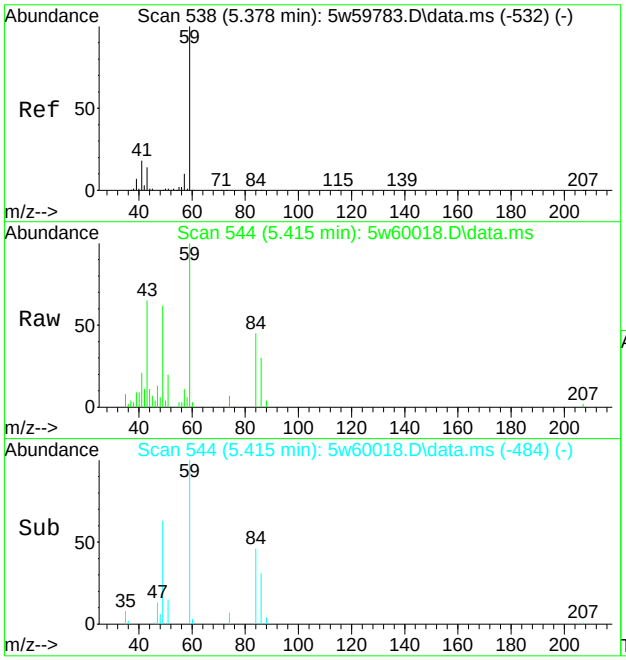


#31
METHYLENE CHLORIDE
Concen: 0.5575 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 84 Resp: 26565

Ion	Ratio	Lower	Upper
84	100		
86	64.4	35.2	95.2
49	124.3	105.3	165.3

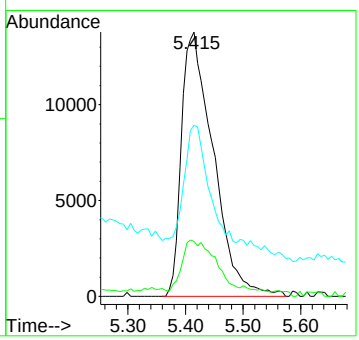


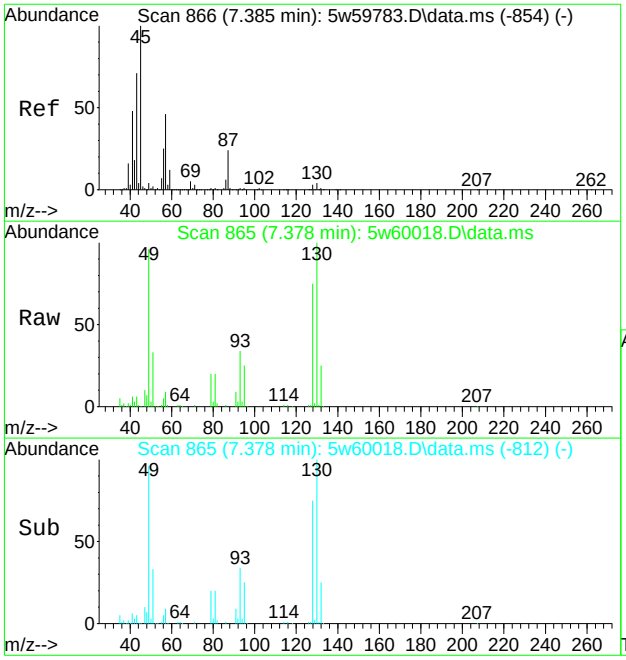


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.5556 PPBV
RT: 5.415 min Scan# 544
Delta R.T. 0.037 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 59 Resp: 52897

Ion	Ratio	Lower	Upper
59	100		
41	26.6	0.0	49.3
43	51.6	0.0	44.1#

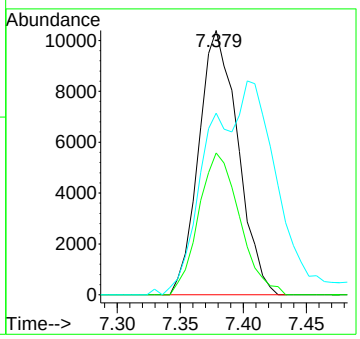


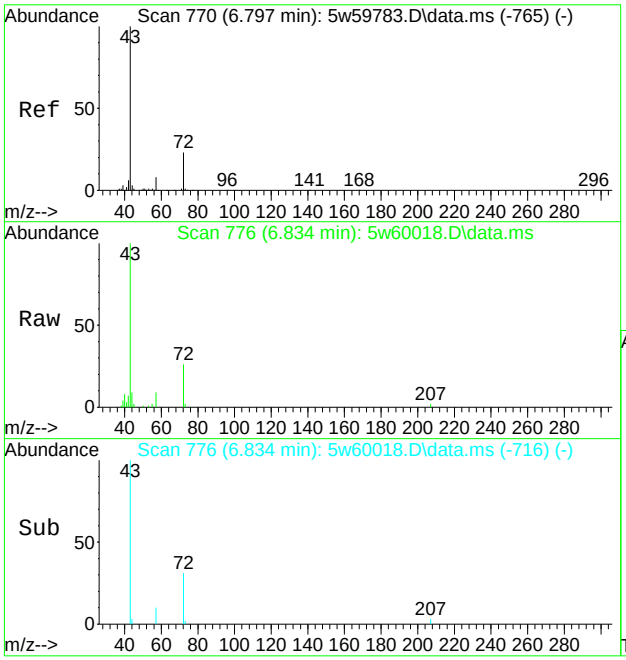


#38
HEXANE
Concen: 0.2953 PPBV
RT: 7.378 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 57 Resp: 22383

Ion	Ratio	Lower	Upper
57	100		
56	56.4	25.9	85.9
41	0.0	74.7	134.7#

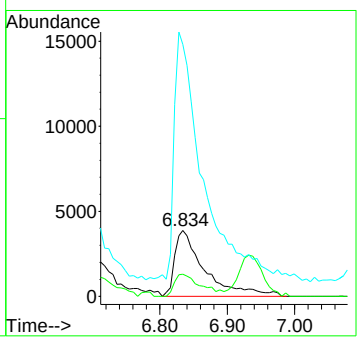


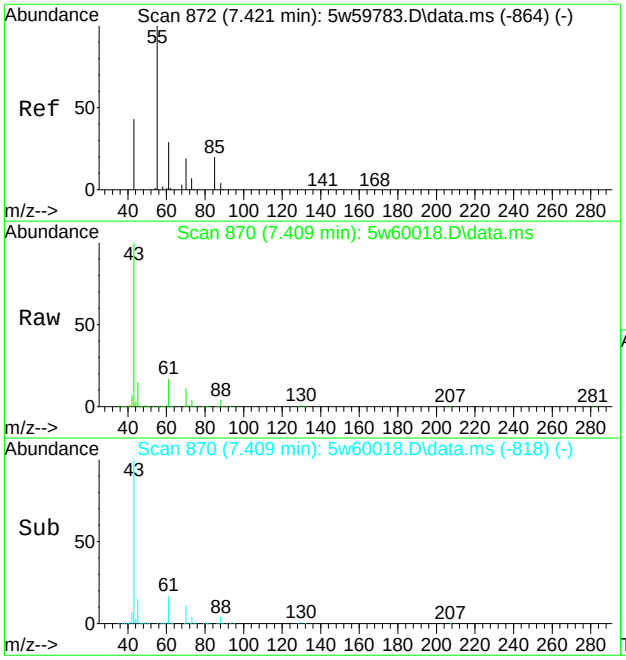


#41
METHYL ETHYL KETONE
Concen: 0.6517 PPBV
RT: 6.834 min Scan# 776
Delta R.T. 0.037 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 72 Resp: 11954

Ion	Ratio	Lower	Upper
72	100		
57	33.5	4.8	64.8
43	382.5	415.9	475.9#

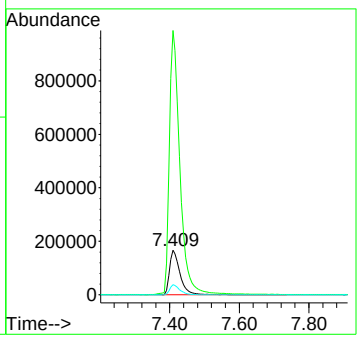


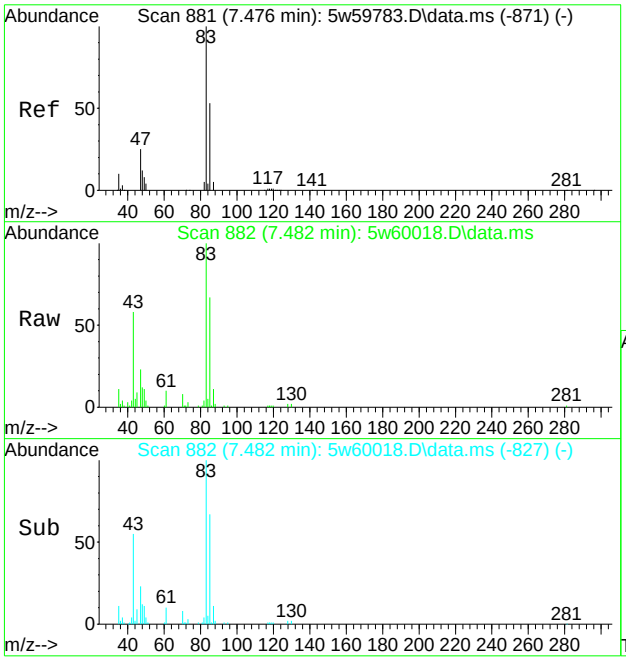


#44
ETHYL ACETATE
Concen: 24.8304 PPBV
RT: 7.409 min Scan# 870
Delta R.T. -0.012 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 61 Resp: 348003

Ion	Ratio	Lower	Upper
61	100		
43	601.4	560.5	620.5
88	22.0	4.5	64.5

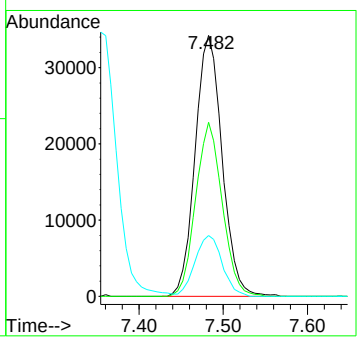


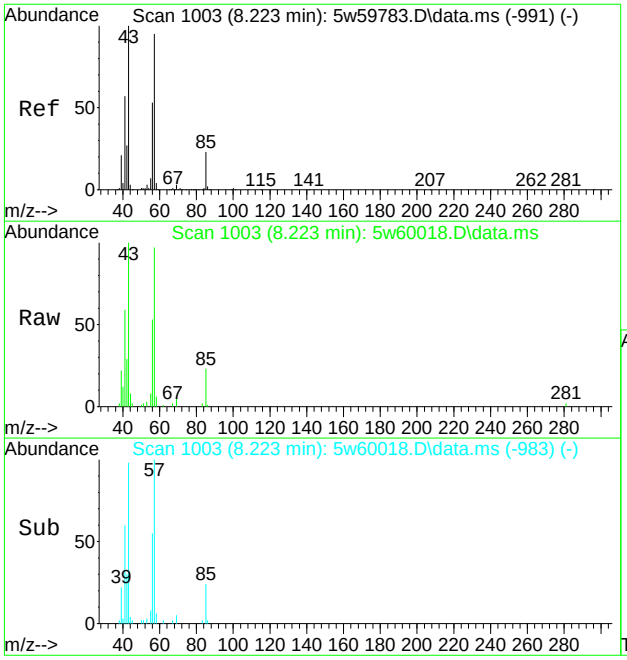


#46
CHLOROFORM
Concen: 0.7247 PPBV
RT: 7.482 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 83 Resp: 76519

Ion	Ratio	Lower	Upper
83	100		
85	65.5	35.6	95.6
47	23.4	0.0	55.2

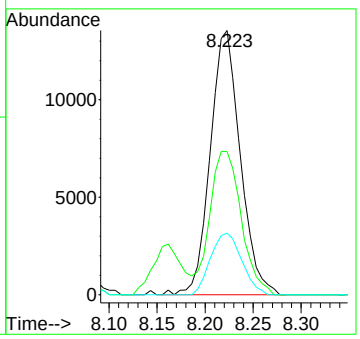


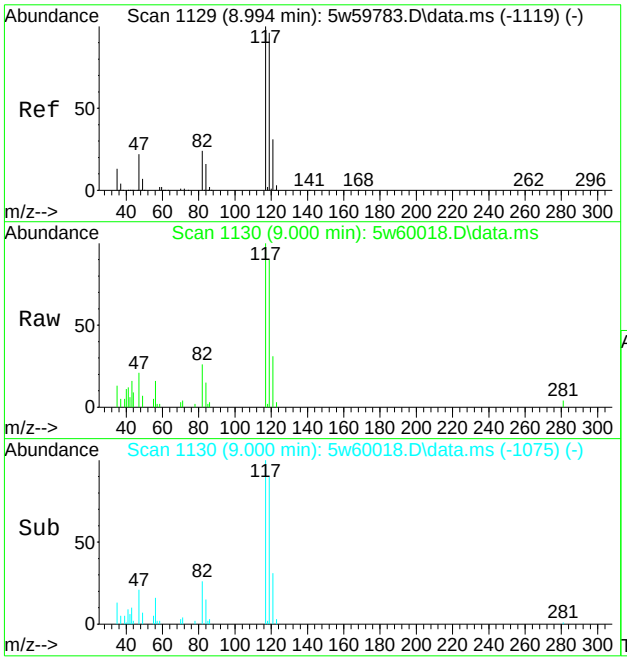


#47
2,4-DIMETHYLPENTANE
Concen: 0.3452 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 57 Resp: 29619

Ion	Ratio	Lower	Upper
57	100		
56	57.0	26.5	86.5
85	24.2	0.0	53.8

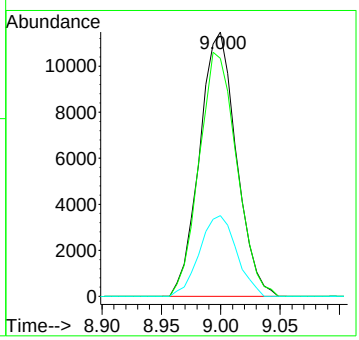


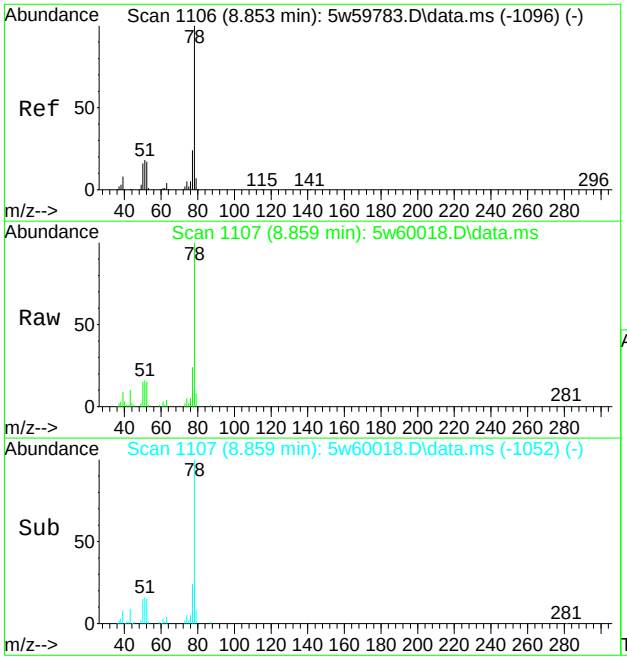


#49
CARBON TETRACHLORIDE
Concen: 0.2059 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion:117 Resp: 24629

Ion	Ratio	Lower	Upper
117	100		
119	94.2	66.9	126.9
121	30.8	1.3	61.3

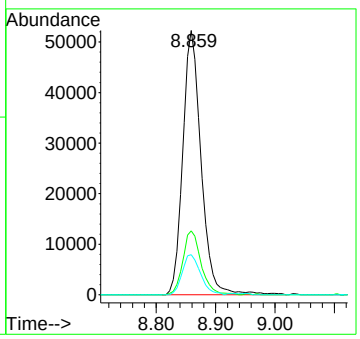


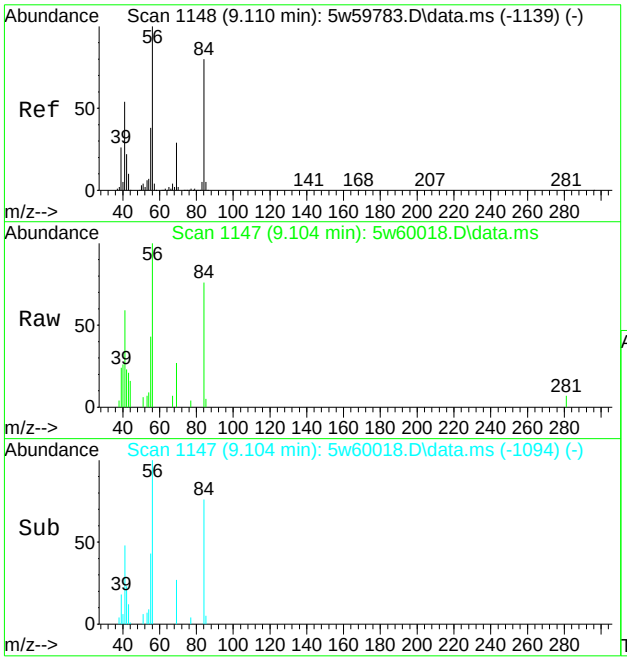


#52
BENZENE
Concen: 0.8002 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 78 Resp: 113053

Ion	Ratio	Lower	Upper
78	100		
77	24.0	0.0	53.8
52	15.1	0.0	46.9

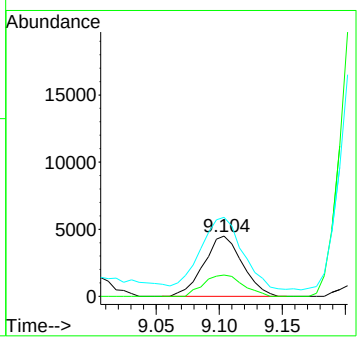


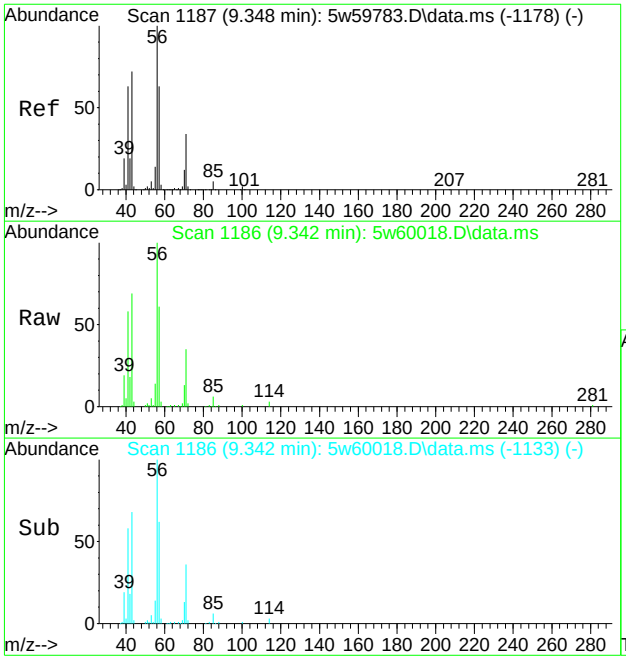


#53
CYCLOHEXANE
Concen: 0.1692 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 84 Resp: 9551

Ion	Ratio	Lower	Upper
84	100		
69	36.2	6.9	66.9
56	144.8	98.2	158.2

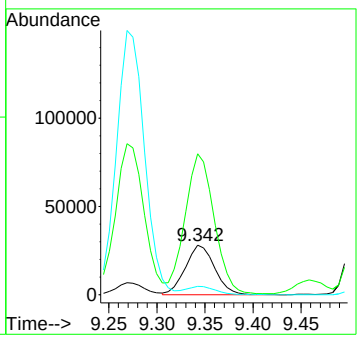


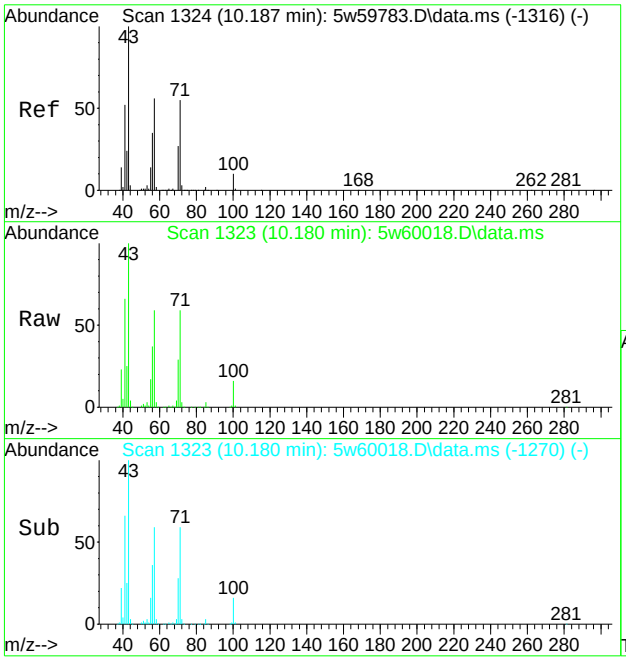


#54
2,3-DIMETHYLPENTANE
Concen: 2.0966 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 71 Resp: 59800

Ion	Ratio	Lower	Upper
71	100		
56	281.6	264.6	324.6
85	16.3	0.0	45.3

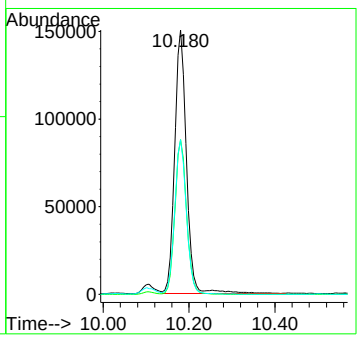


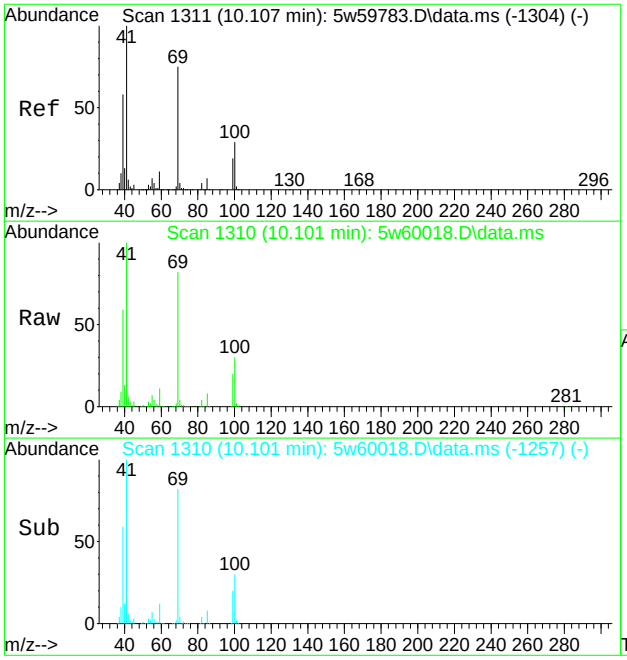


#62
HEPTANE
Concen: 3.5311 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 43 Resp: 287063

Ion	Ratio	Lower	Upper
43	100		
71	58.3	24.5	84.5
57	58.6	26.2	86.2

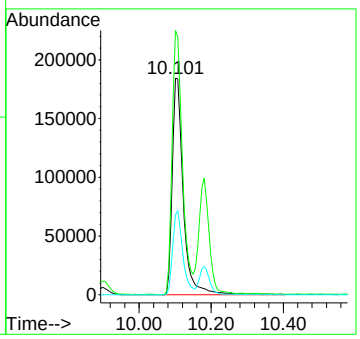


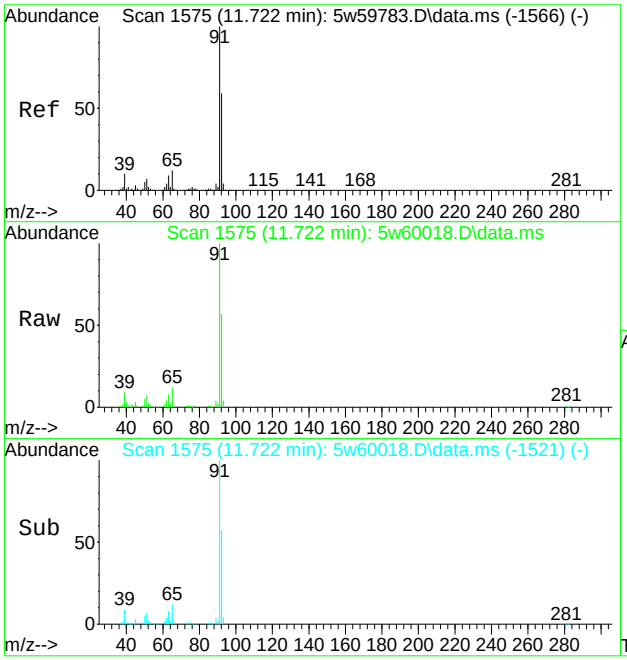


#63
METHYL METHACRYLATE
Concen: 8.5061 PPBV
RT: 10.101 min Scan# 1310
Delta R.T. -0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 69 Resp: 391679

Ion	Ratio	Lower	Upper
69	100		
41	112.9	95.3	155.3
100	35.6	6.3	66.3

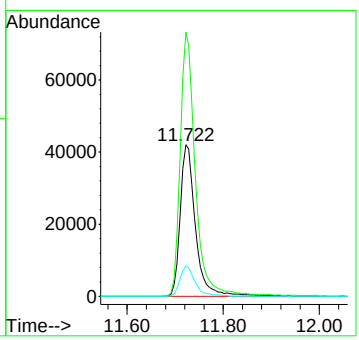


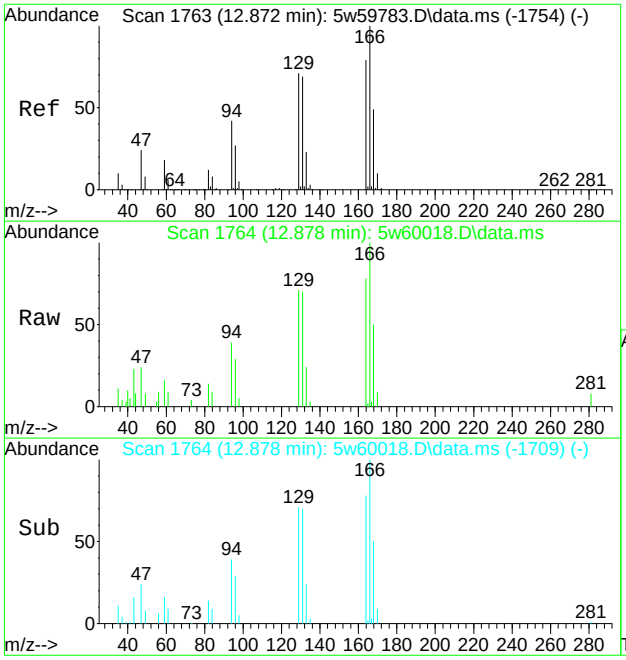


#66
TOLUENE
Concen: 0.8824 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 92 Resp: 93187

Ion	Ratio	Lower	Upper
92	100		
91	173.5	140.1	200.1
65	20.0	0.0	53.1

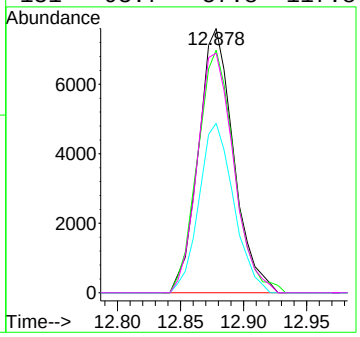


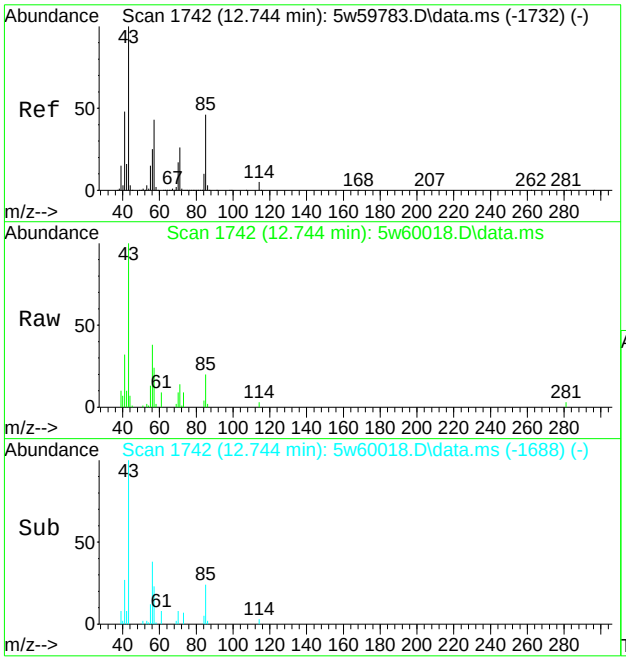


#73
TETRACHLOROETHYLENE
Concen: 0.2122 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion:164 Resp: 14724

Ion	Ratio	Lower	Upper
164	100		
129	95.3	59.7	119.7
168	63.2	32.2	92.2
131	93.7	57.8	117.8

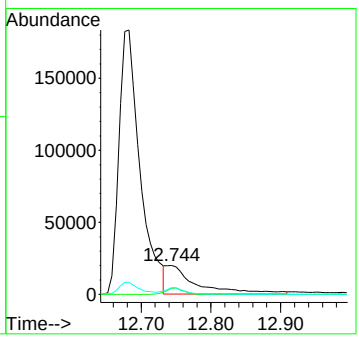


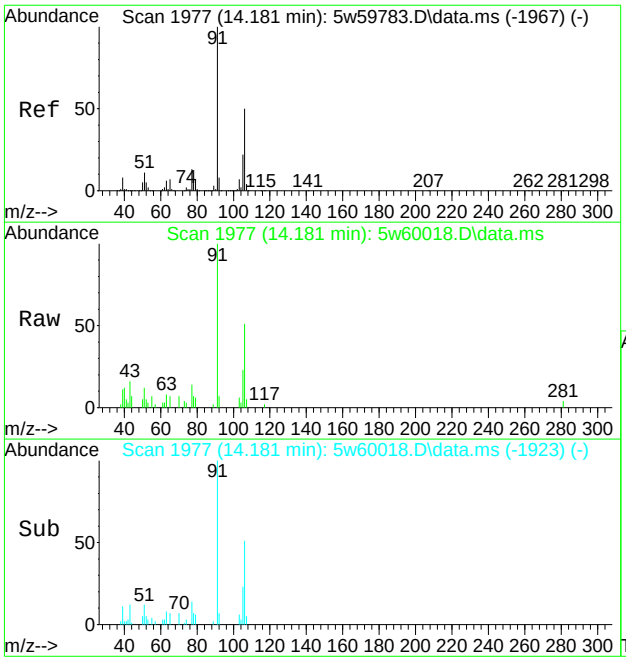


#76
OCTANE
Concen: 0.6277 PPBV m
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 43 Resp: 60643

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	29.4	13.7	73.7

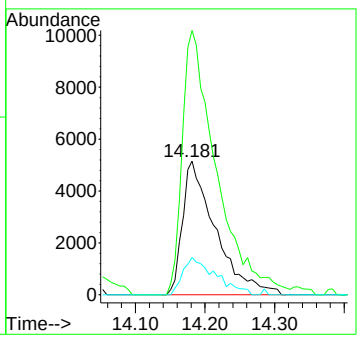


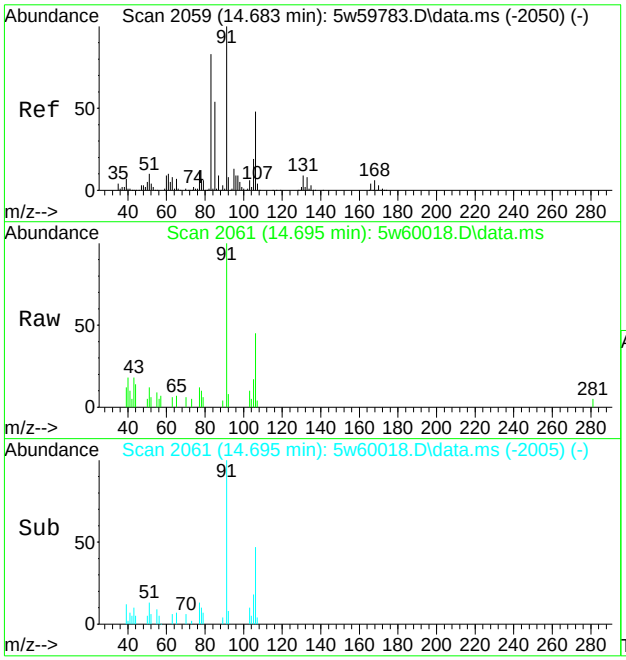


#80
m,p-XYLENE
Concen: 0.2206 PPBV
RT: 14.181 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion:106 Resp: 16948

Ion	Ratio	Lower	Upper
106	100		
91	197.8	171.0	231.0
77	27.9	0.0	56.7

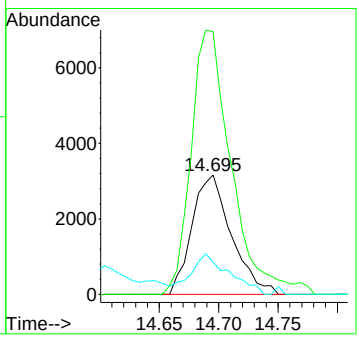


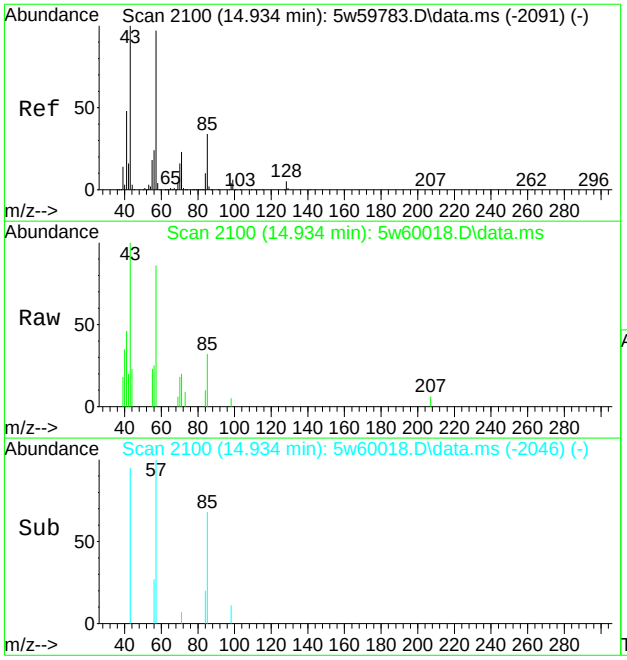


#81
o-XYLENE
Concen: 0.1013 PPBV
RT: 14.695 min Scan# 2061
Delta R.T. 0.012 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion:106 Resp: 7284

Ion	Ratio	Lower	Upper
106	100		
91	226.5	181.6	241.6
77	33.4	0.0	56.6

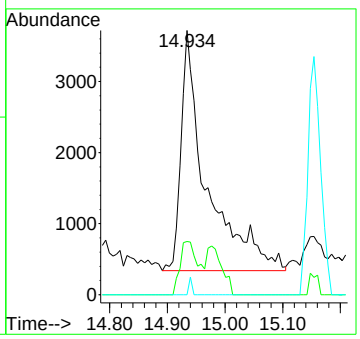


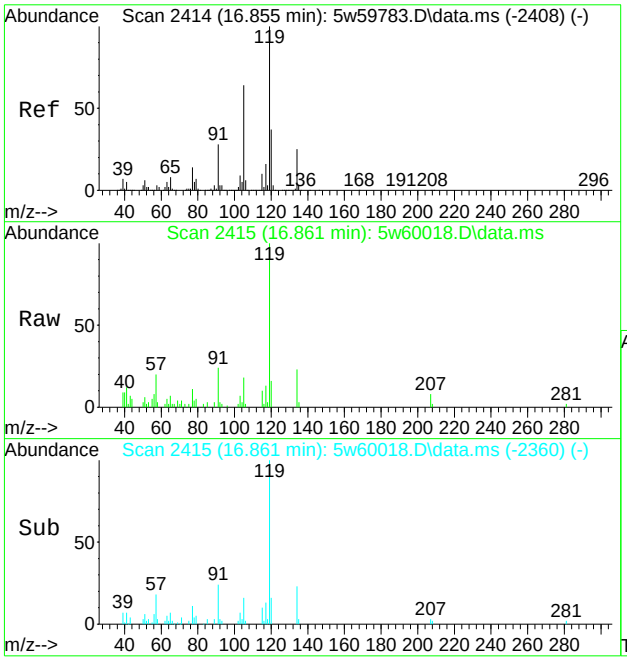


#83
NONANE
Concen: 0.1065 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion: 43 Resp: 10404

Ion	Ratio	Lower	Upper
43	100		
71	16.1	0.0	52.7
128	0.0	0.0	34.7

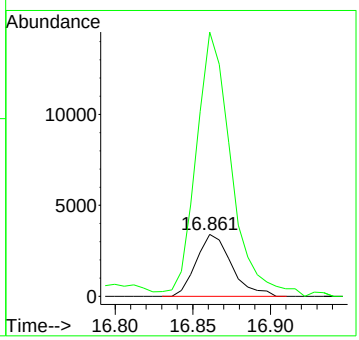




#102
p-ISOPROPYLTOLUENE
Concen: 0.0983 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w60018.D
Acq: 24 Nov 2025 11:46 pm

Tgt Ion:134 Resp: 5370

Ion	Ratio	Lower	Upper
134	100		
119	429.2	377.7	437.7



Manual Integration Approval Summary

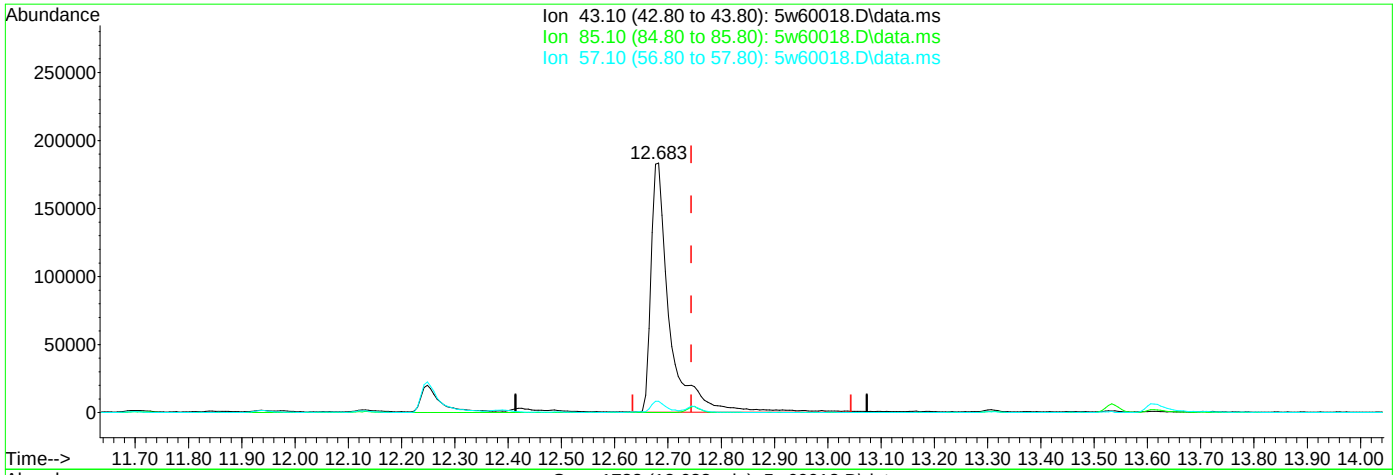
Sample Number: JE23793-4
Lab FileID: 5W60018.D
Injection Time: 11/24/25 23:46
Method: TO-15
Analyst approved: 11/25/25 13:00 Claire Basilio
Supervisor approved: 11/28/25 18:40 Kanya Veerawat

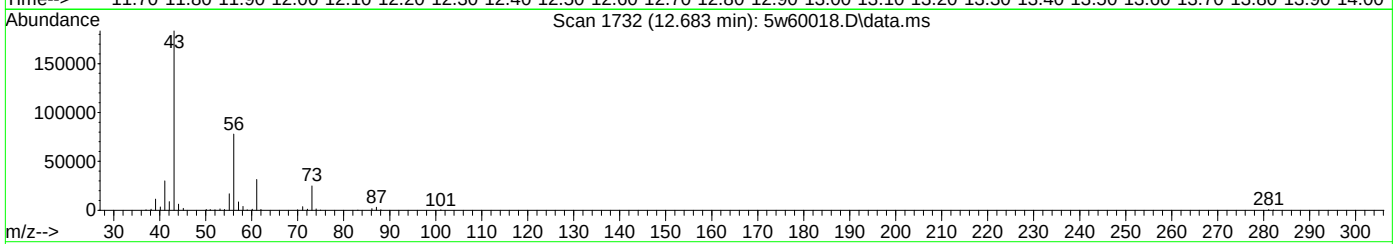
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octane	111-65-9		12.74	Overlapping peak

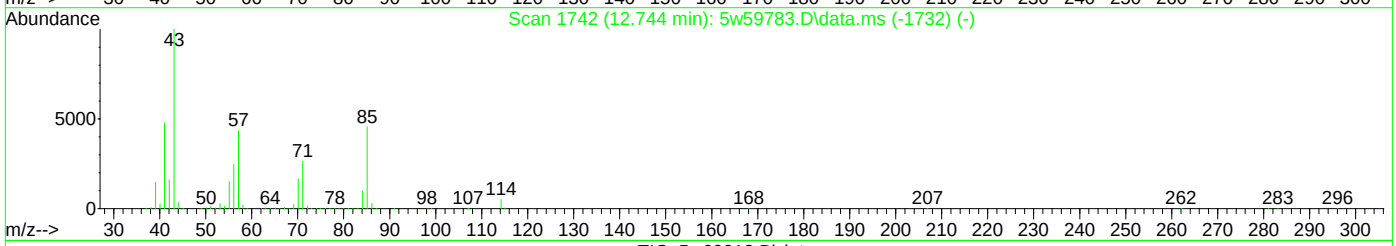
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60018.D
Acq On : 24 Nov 2025 11:46 pm
Operator : benk
Sample : je23793-4 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 26 01:47:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60018.D\data.ms

(76) OCTANE

12.683min (-0.061) 4.66PPBV

response 450346

Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	3.96#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60045.D
Acq On : 25 Nov 2025 7:46 pm
Operator : benk
Sample : je23793-4 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 27 05:41:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

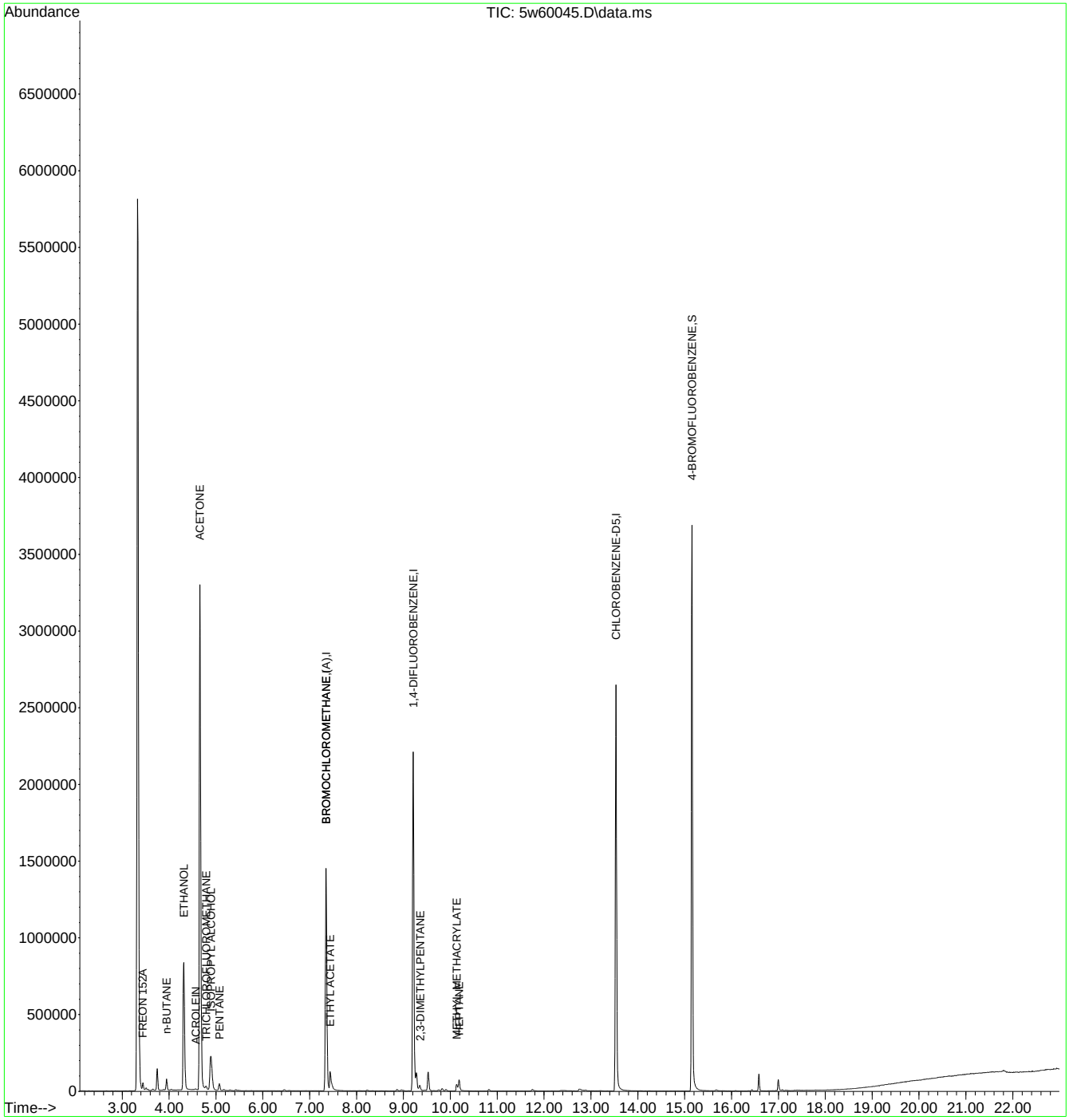
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	460185	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	1978146	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	925146	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	460185	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1256846	10.87	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.70%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	22171	0.6496	PPBV	97
13) n-BUTANE	3.947	43	62297	1.4204	PPBV	96
18) ACROLEIN	4.571	56	4752	0.3338	PPBV	91
21) TRICHLOROFLUOROMETHANE	4.791	101	11748	0.1044	PPBV	98
22) ISOPROPYL ALCOHOL	4.889	45	469713	5.2052	PPBV	92
23) ACETONE	4.656	58	1660677	92.0112	PPBV	85
24) PENTANE	5.072	42	18822	0.4015	PPBV	96
28) ETHANOL	4.314	45	1120229	74.0970	PPBV	99
44) ETHYL ACETATE	7.434	61	31828	2.3433	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.355	71	5637	0.2107	PPBV	89
62) HEPTANE	10.187	43	27902	0.3659	PPBV	97
63) METHYL METHACRYLATE	10.132	69	31589	0.7314	PPBV #	62

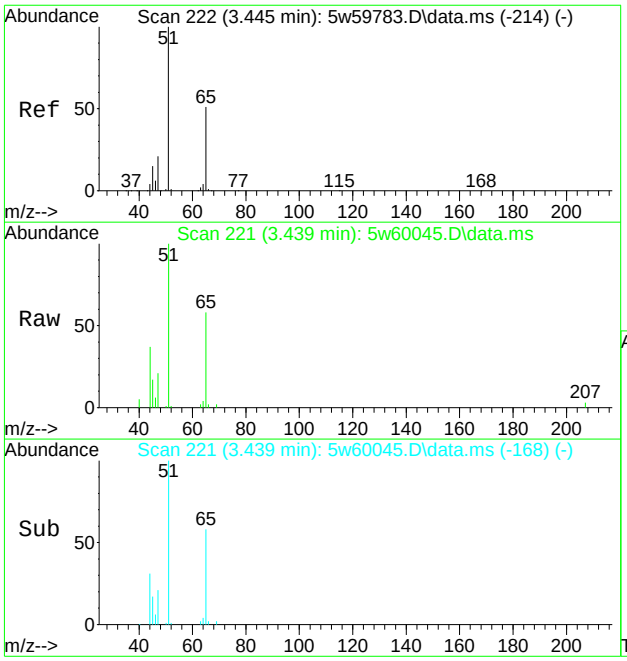
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60045.D
Acq On : 25 Nov 2025 7:46 pm
Operator : benk
Sample : je23793-4 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 27 05:41:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

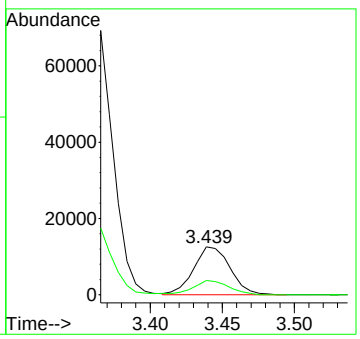


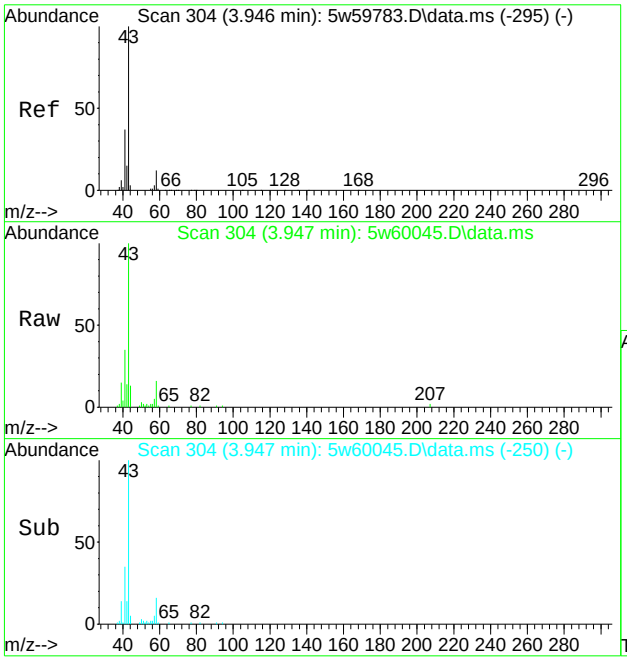


#3
FREON 152A
Concen: 0.6496 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 65 Resp: 22171

Ion	Ratio	Lower	Upper
65	100		
45	28.5	0.0	60.0

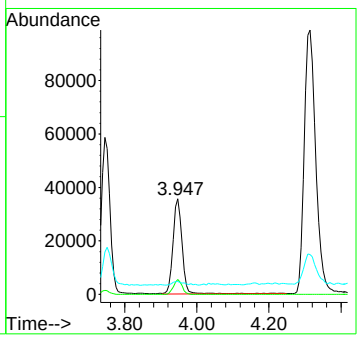


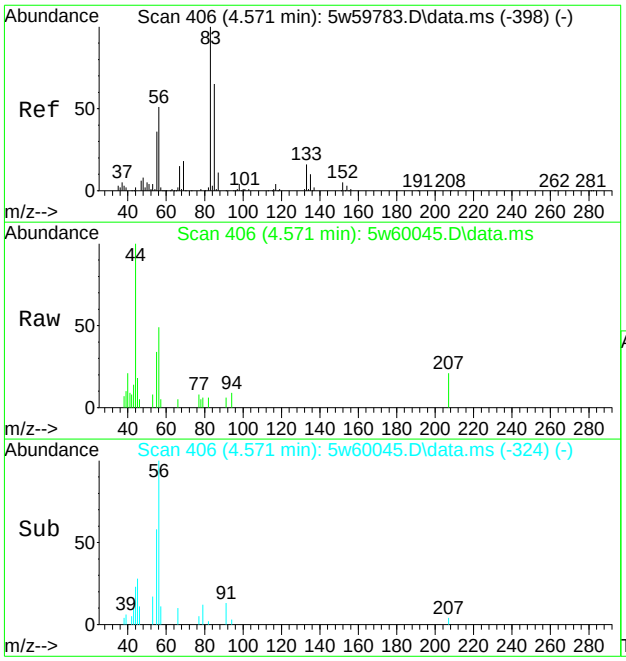


#13
n-BUTANE
Concen: 1.4204 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 43 Resp: 62297

Ion	Ratio	Lower	Upper
43	100		
58	14.5	0.0	42.6
44	5.6	0.0	34.9

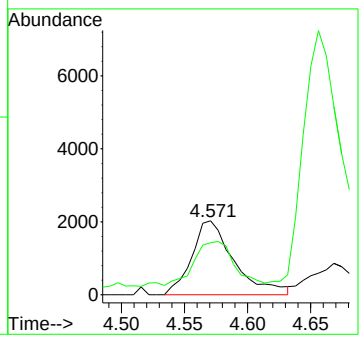


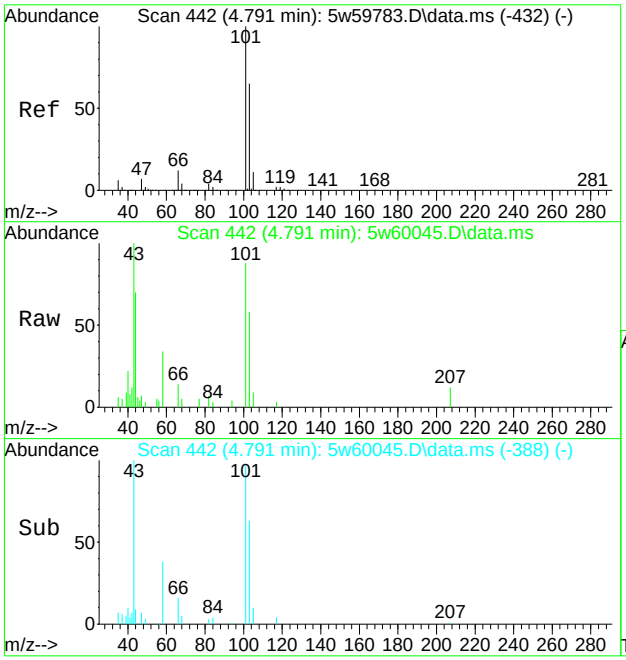


#18
ACROLEIN
Concen: 0.3338 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 56 Resp: 4752

Ion	Ratio	Lower	Upper
56	100		
55	59.5	46.6	86.6

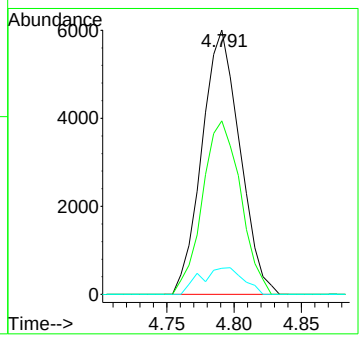


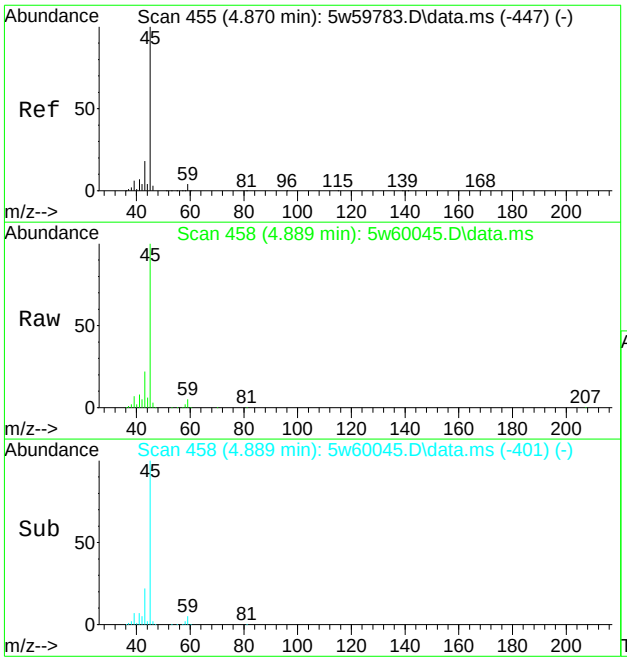


#21
TRICHLOROFLUOROMETHANE
Concen: 0.1044 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion:101 Resp: 11748

Ion	Ratio	Lower	Upper
101	100		
103	66.4	35.0	95.0
105	11.5	0.0	40.7

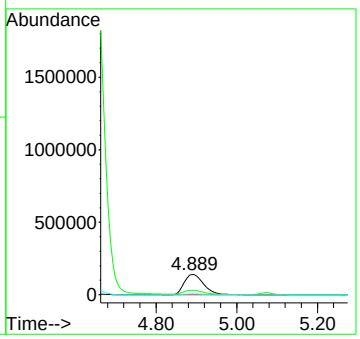


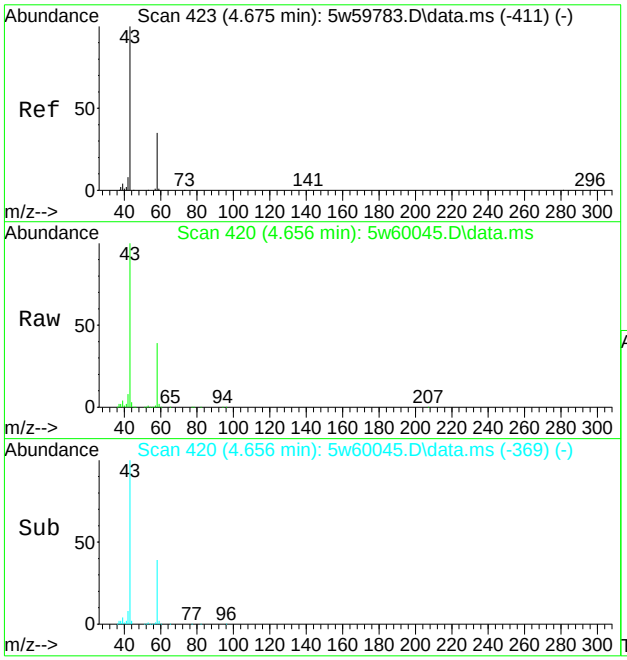


#22
ISOPROPYL ALCOHOL
Concen: 5.2052 PPBV
RT: 4.889 min Scan# 458
Delta R.T. 0.019 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 45 Resp: 469713

Ion	Ratio	Lower	Upper
45	100		
43	21.8	0.0	47.8
59	4.8	0.0	34.1

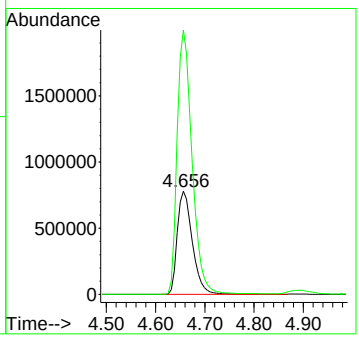


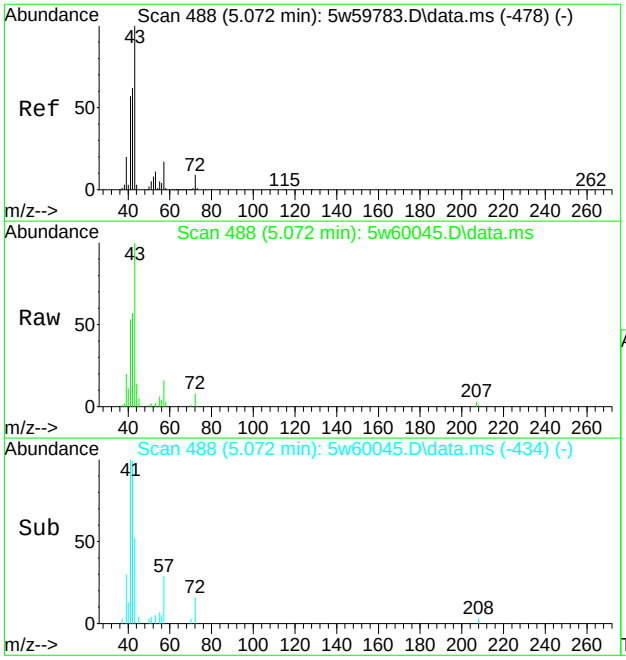


#23
ACETONE
Concen: 92.0112 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 58 Resp: 1660677

Ion	Ratio	Lower	Upper
58	100		
43	254.2	252.3	312.3

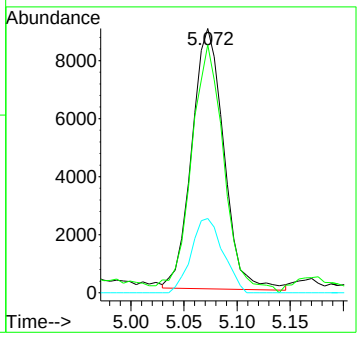


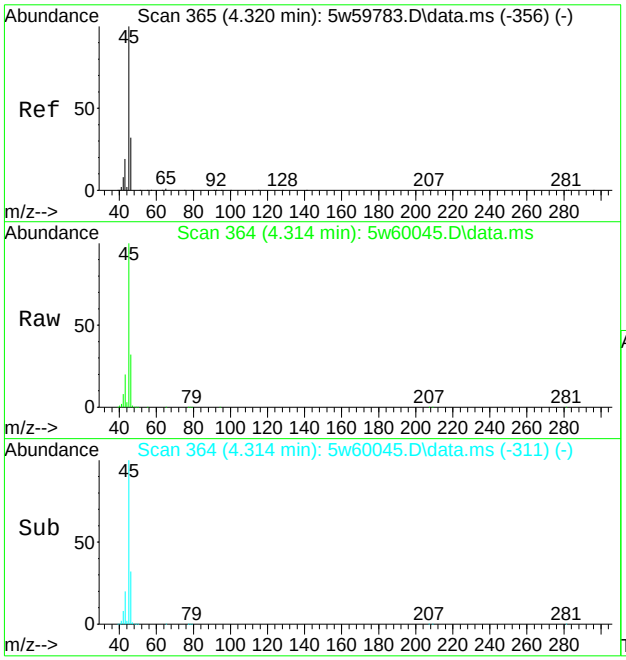


#24
PENTANE
Concen: 0.4015 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 42 Resp: 18822

Ion	Ratio	Lower	Upper
42	100		
41	96.9	62.3	122.3
57	28.3	0.0	57.7

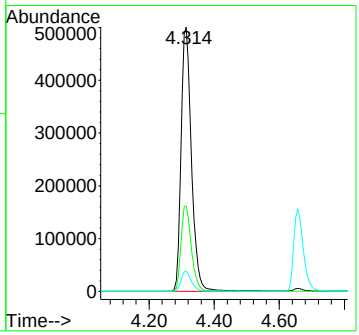


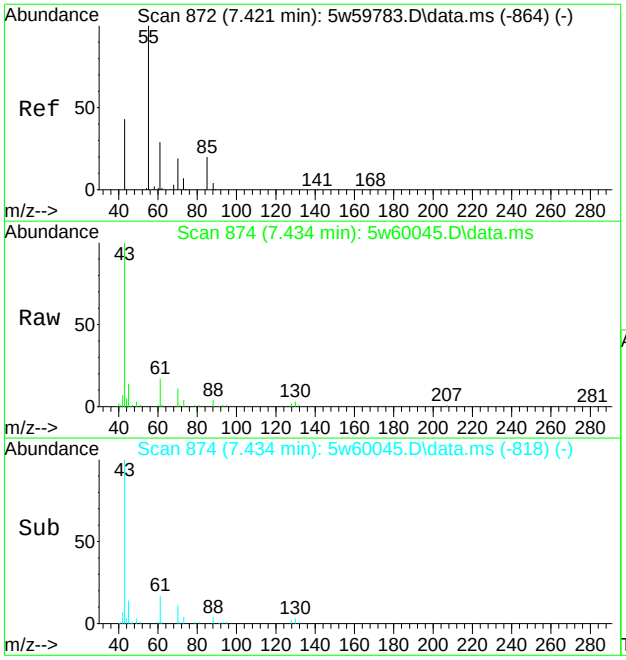


#28
ETHANOL
Concen: 74.0970 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 45 Resp: 1120229

Ion	Ratio	Lower	Upper
45	100		
46	32.7	2.0	62.0
42	7.8	0.0	38.5

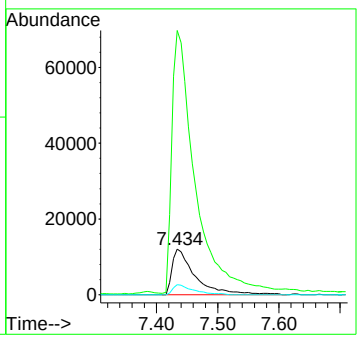


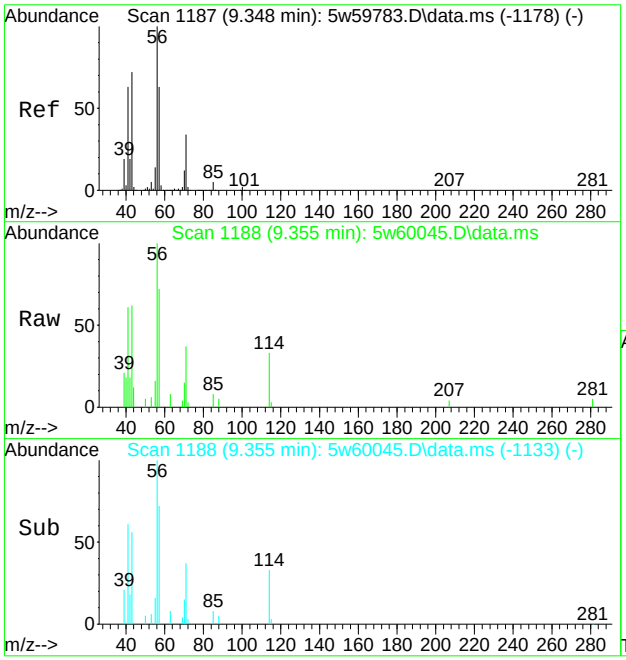


#44
ETHYL ACETATE
Concen: 2.3433 PPBV
RT: 7.434 min Scan# 874
Delta R.T. 0.013 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 61 Resp: 31828

Ion	Ratio	Lower	Upper
61	100		
43	589.9	560.5	620.5
88	19.8	4.5	64.5

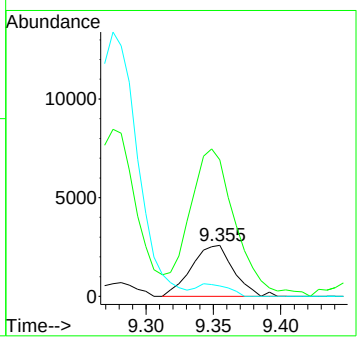


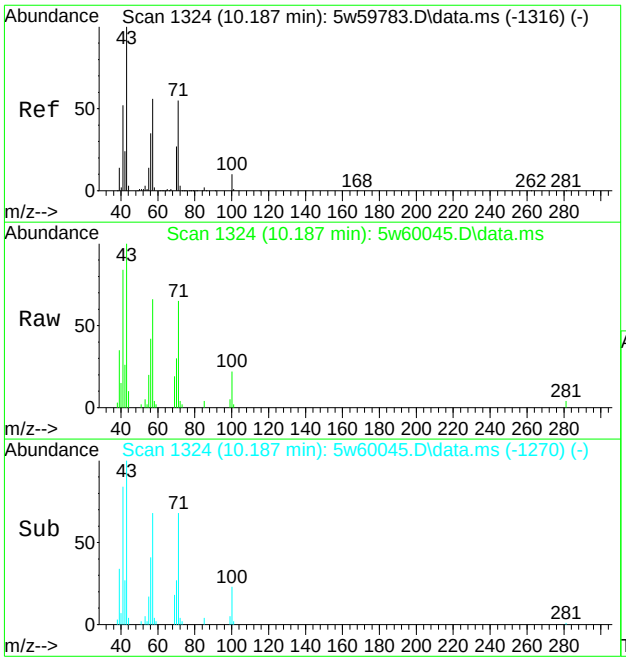


#54
2,3-DIMETHYLPENTANE
Concen: 0.2107 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 71 Resp: 5637

Ion	Ratio	Lower	Upper
71	100		
56	316.7	264.6	324.6
85	18.8	0.0	45.3

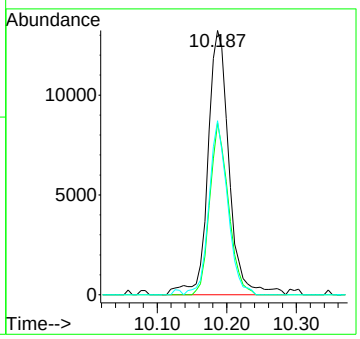


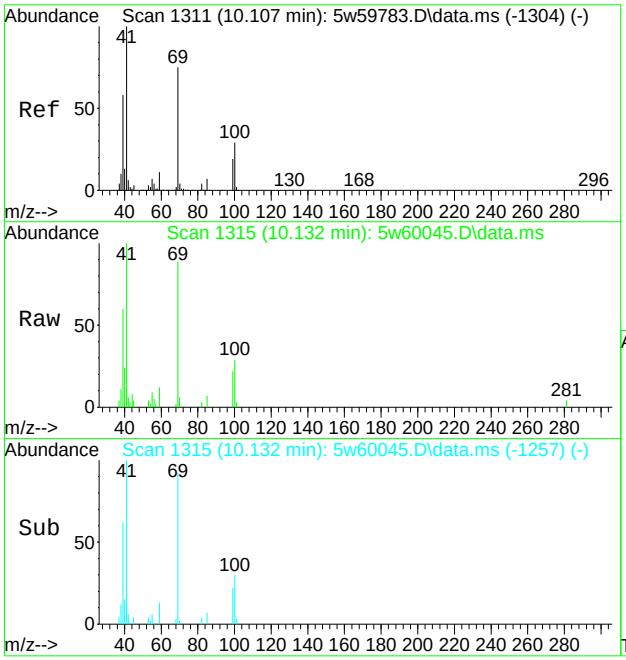


#62
HEPTANE
Concen: 0.3659 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 43 Resp: 27902

Ion	Ratio	Lower	Upper
43	100		
71	57.2	24.5	84.5
57	58.1	26.2	86.2

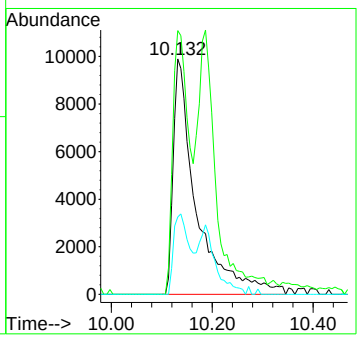




#63
METHYL METHACRYLATE
Concen: 0.7314 PPBV
RT: 10.132 min Scan# 1315
Delta R.T. 0.025 min
Lab File: 5w60045.D
Acq: 25 Nov 2025 7:46 pm

Tgt Ion: 69 Resp: 31589

Ion	Ratio	Lower	Upper
69	100		
41	76.6	95.3	155.3#
100	24.6	6.3	66.3



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\rosanlie\Nov 2025\11-27-25\V5W2302 hw\
Data File : 5w60049.D
Acq On : 25 Nov 2025 10:13 pm
Operator : benk
Sample : je23793-4 Inst : GCMS5W
Misc : MS99437,V5W2302,25,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 27 12:50:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

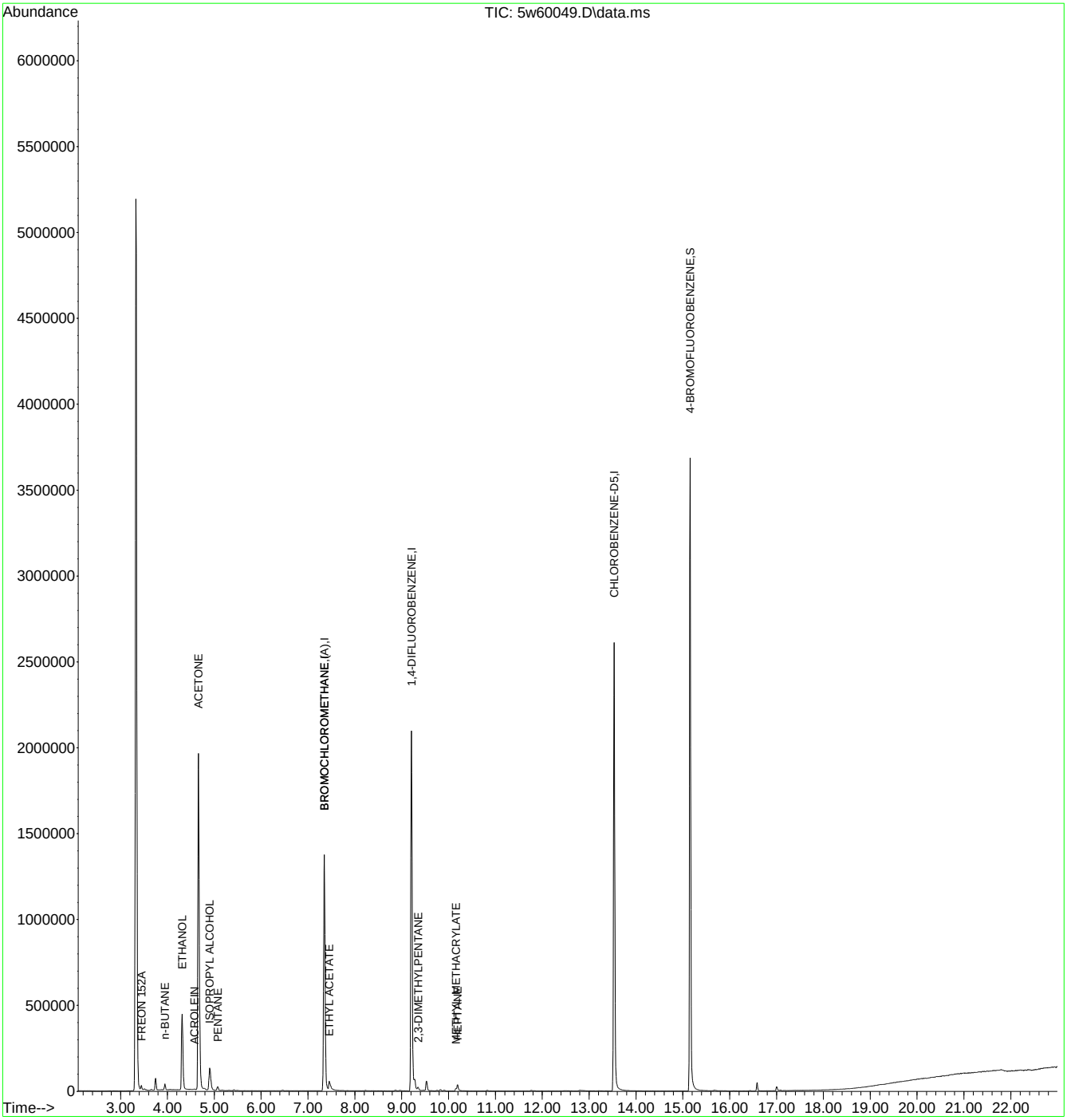
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	441511	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	1900700	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	912612	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	442248	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1243451	10.90	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.00%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	11770	0.3594	PPBV	95
13) n-BUTANE	3.947	43	31301	0.7439	PPBV	98
18) ACROLEIN	4.577	56	2818	0.2063	PPBV	76
22) ISOPROPYL ALCOHOL	4.901	45	234823	2.7123	PPBV	91
23) ACETONE	4.663	58	1004130	57.9878	PPBV	85
24) PENTANE	5.072	42	10739	0.2387	PPBV	95
28) ETHANOL	4.314	45	586107	40.4075	PPBV	98
44) ETHYL ACETATE	7.452	61	14880	1.1419	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.349	71	2750	0.1070	PPBV #	89
62) HEPTANE	10.193	43	13015	0.1776	PPBV	98
63) METHYL METHACRYLATE	10.156	69	13710	0.3304	PPBV #	36

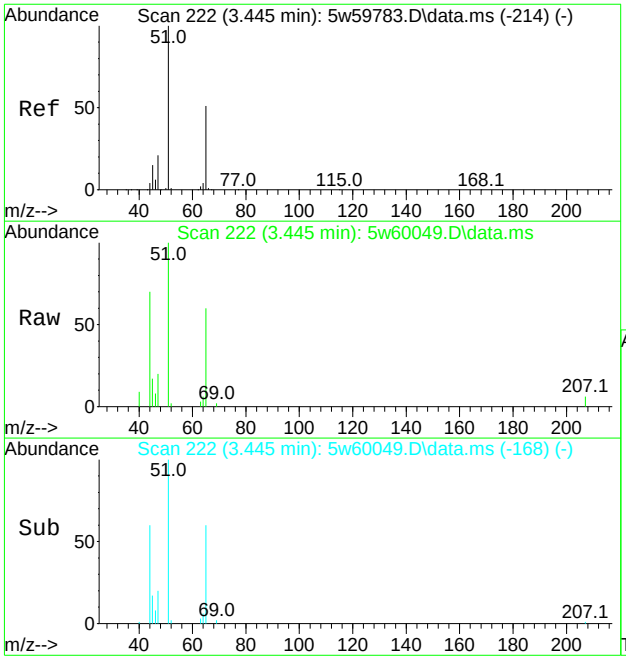
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\rosanlie\Nov 2025\11-27-25\V5W2302 hw\
Data File : 5w60049.D
Acq On : 25 Nov 2025 10:13 pm
Operator : benk
Sample : je23793-4 Inst : GCMS5W
Misc : MS99437,V5W2302,25,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 27 12:50:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

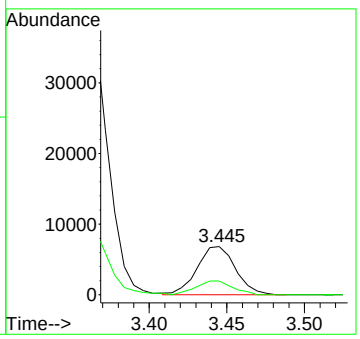


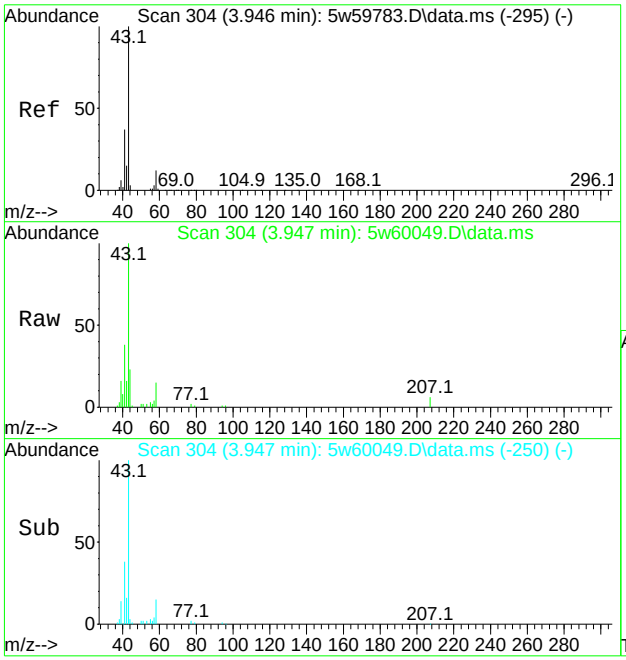


#3
FREON 152A
Concen: 0.3594 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 65 Resp: 11770

Ion	Ratio	Lower	Upper
65	100		
45	27.4	0.0	60.0

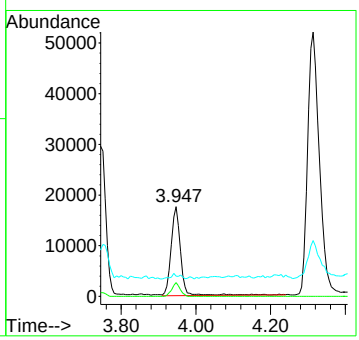


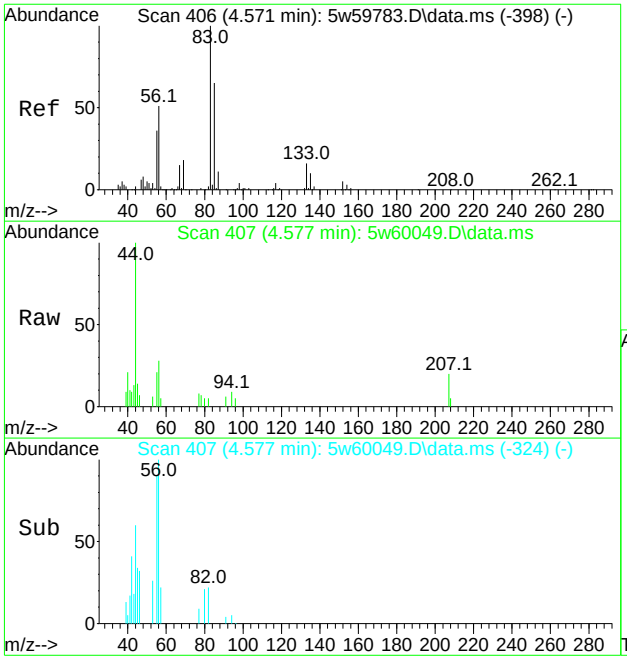


#13
n-BUTANE
Concen: 0.7439 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 43 Resp: 31301

Ion	Ratio	Lower	Upper
43	100		
58	13.4	0.0	42.6
44	5.6	0.0	34.9

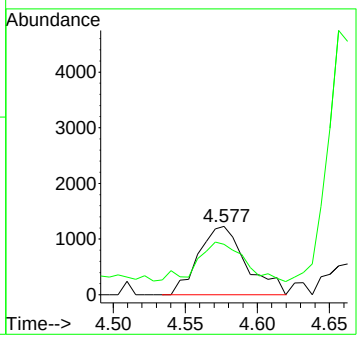


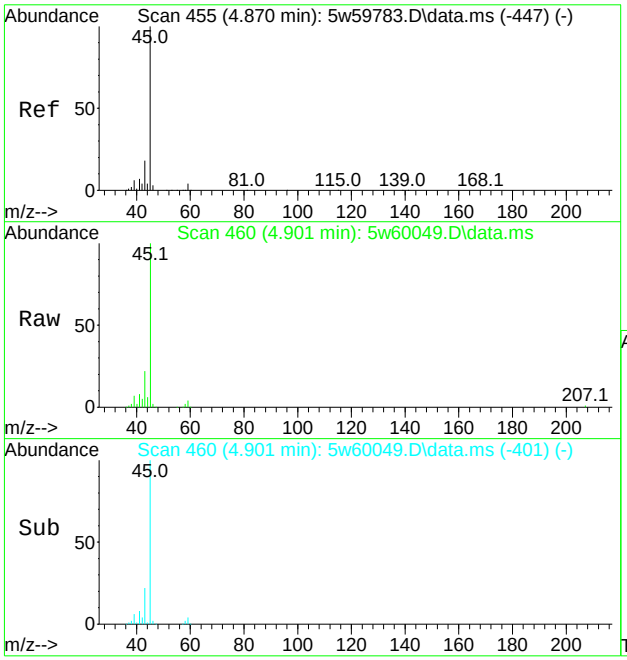


#18
ACROLEIN
Concen: 0.2063 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 56 Resp: 2818

Ion	Ratio	Lower	Upper
56	100		
55	85.4	46.6	86.6

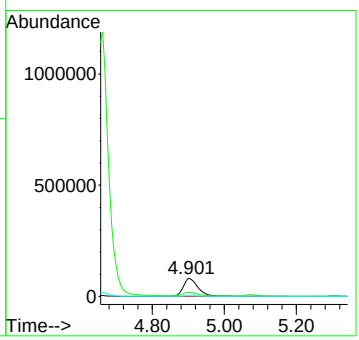


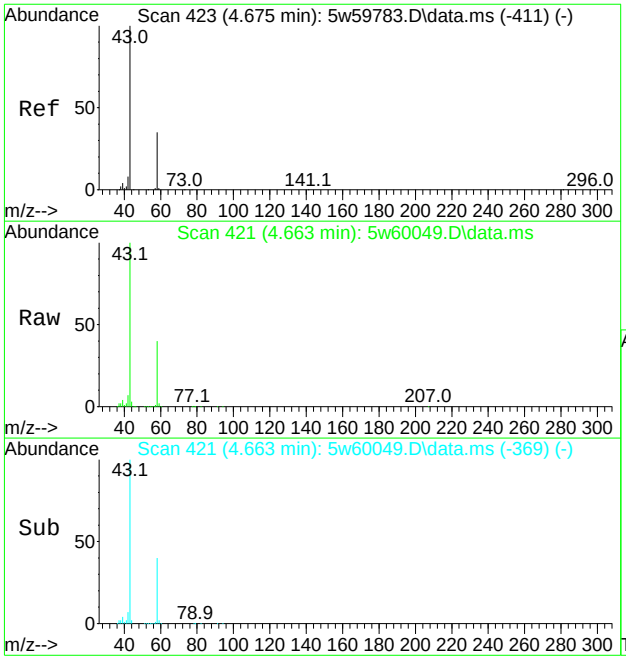


#22
ISOPROPYL ALCOHOL
Concen: 2.7123 PPBV
RT: 4.901 min Scan# 460
Delta R.T. 0.031 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 45 Resp: 234823

Ion	Ratio	Lower	Upper
45	100		
43	22.3	0.0	47.8
59	4.4	0.0	34.1

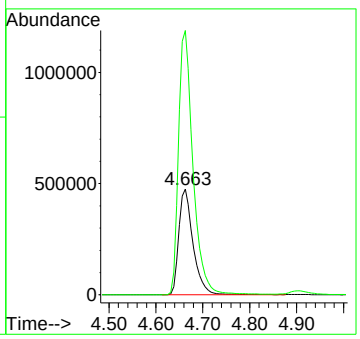


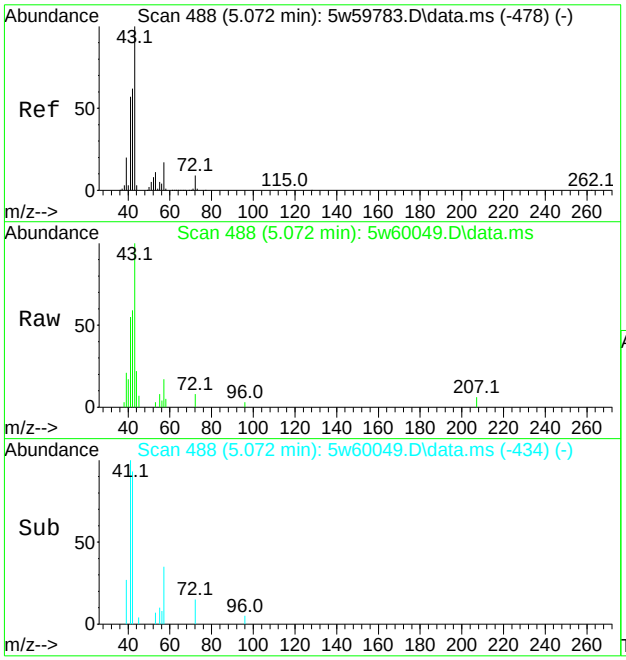


#23
ACETONE
Concen: 57.9878 PPBV
RT: 4.663 min Scan# 421
Delta R.T. -0.012 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 58 Resp: 1004130

Ion	Ratio	Lower	Upper
58	100		
43	253.4	252.3	312.3

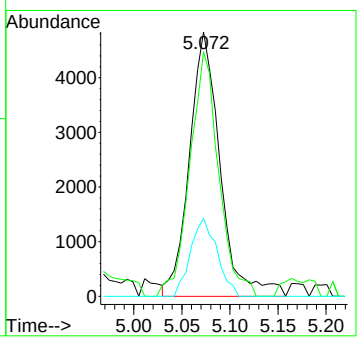


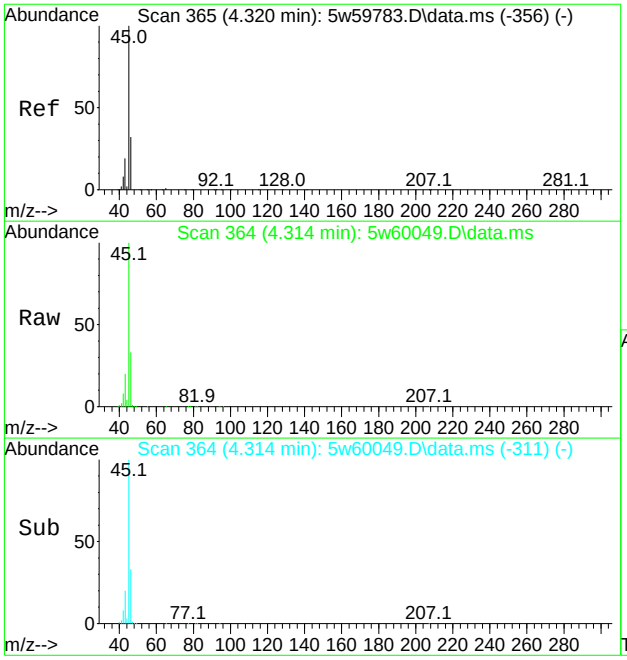


#24
PENTANE
Concen: 0.2387 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 42 Resp: 10739

Ion	Ratio	Lower	Upper
42	100		
41	87.0	62.3	122.3
57	25.5	0.0	57.7

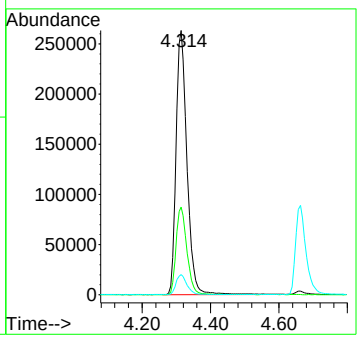


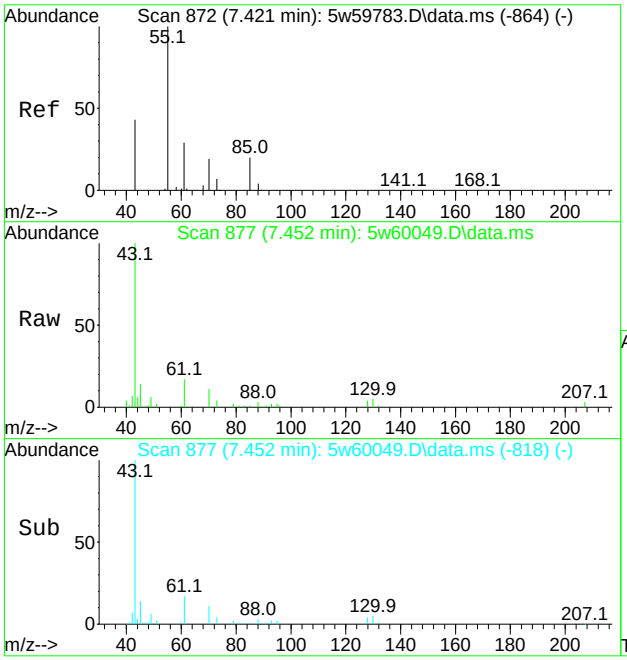


#28
ETHANOL
Concen: 40.4075 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 45 Resp: 586107

Ion	Ratio	Lower	Upper
45	100		
46	33.3	2.0	62.0
42	7.6	0.0	38.5

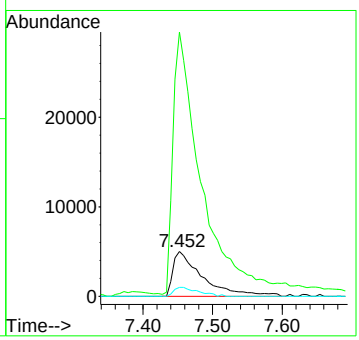


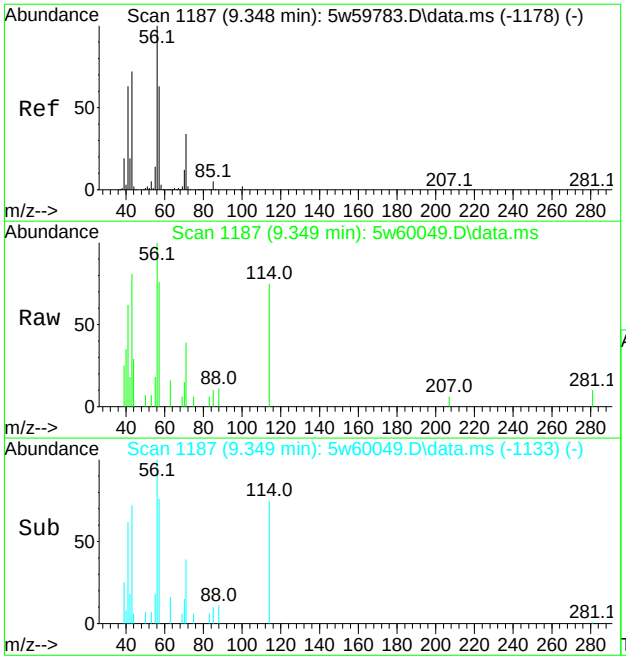


#44
ETHYL ACETATE
Concen: 1.1419 PPBV
RT: 7.452 min Scan# 877
Delta R.T. 0.031 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 61 Resp: 14880

Ion	Ratio	Lower	Upper
61	100		
43	589.9	560.5	620.5
88	16.7	4.5	64.5

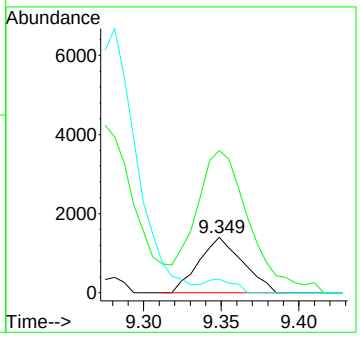


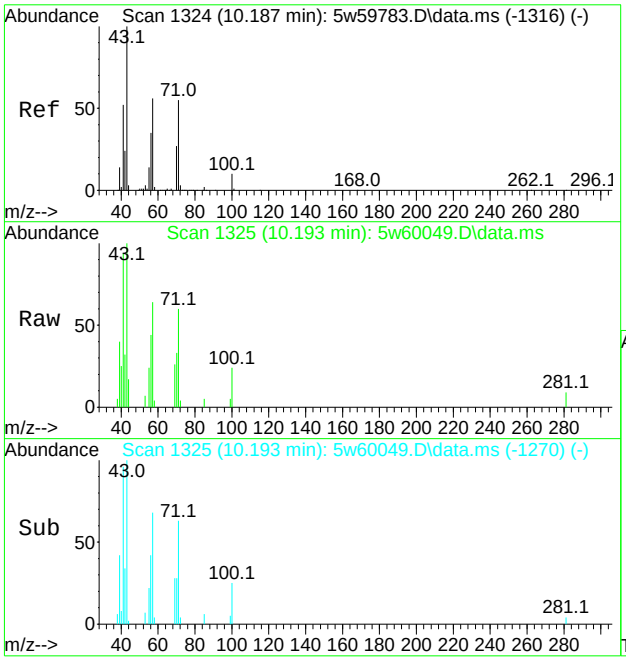


#54
2,3-DIMETHYLPENTANE
Concen: 0.1070 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 71 Resp: 2750

Ion	Ratio	Lower	Upper
71	100		
56	313.7	264.6	324.6
85	0.0	0.0	45.3

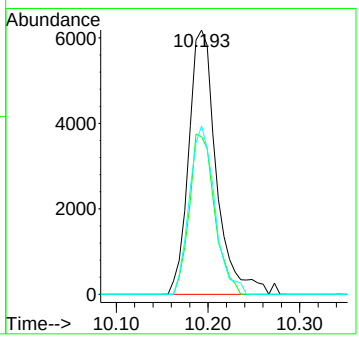




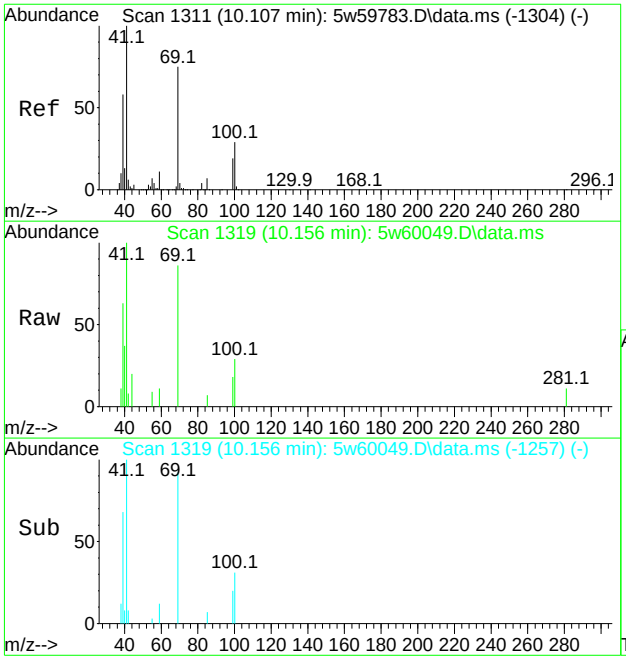
#62
HEPTANE
Concen: 0.1776 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 43 Resp: 13015

Ion	Ratio	Lower	Upper
43	100		
71	55.1	24.5	84.5
57	58.2	26.2	86.2



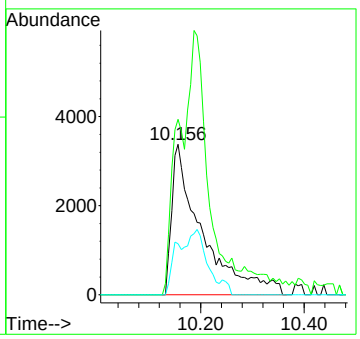
7.1.9



#63
METHYL METHACRYLATE
Concen: 0.3304 PPBV
RT: 10.156 min Scan# 1319
Delta R.T. 0.049 min
Lab File: 5w60049.D
Acq: 25 Nov 2025 10:13 pm

Tgt Ion: 69 Resp: 13710

Ion	Ratio	Lower	Upper
69	100		
41	51.0	95.3	155.3#
100	0.0	6.3	66.3#



7.1.9

7

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/27/25 02:04

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60019.D
Acq On : 25 Nov 2025 12:29 am
Operator : benk
Sample : je23793-5
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 27 01:56:38 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

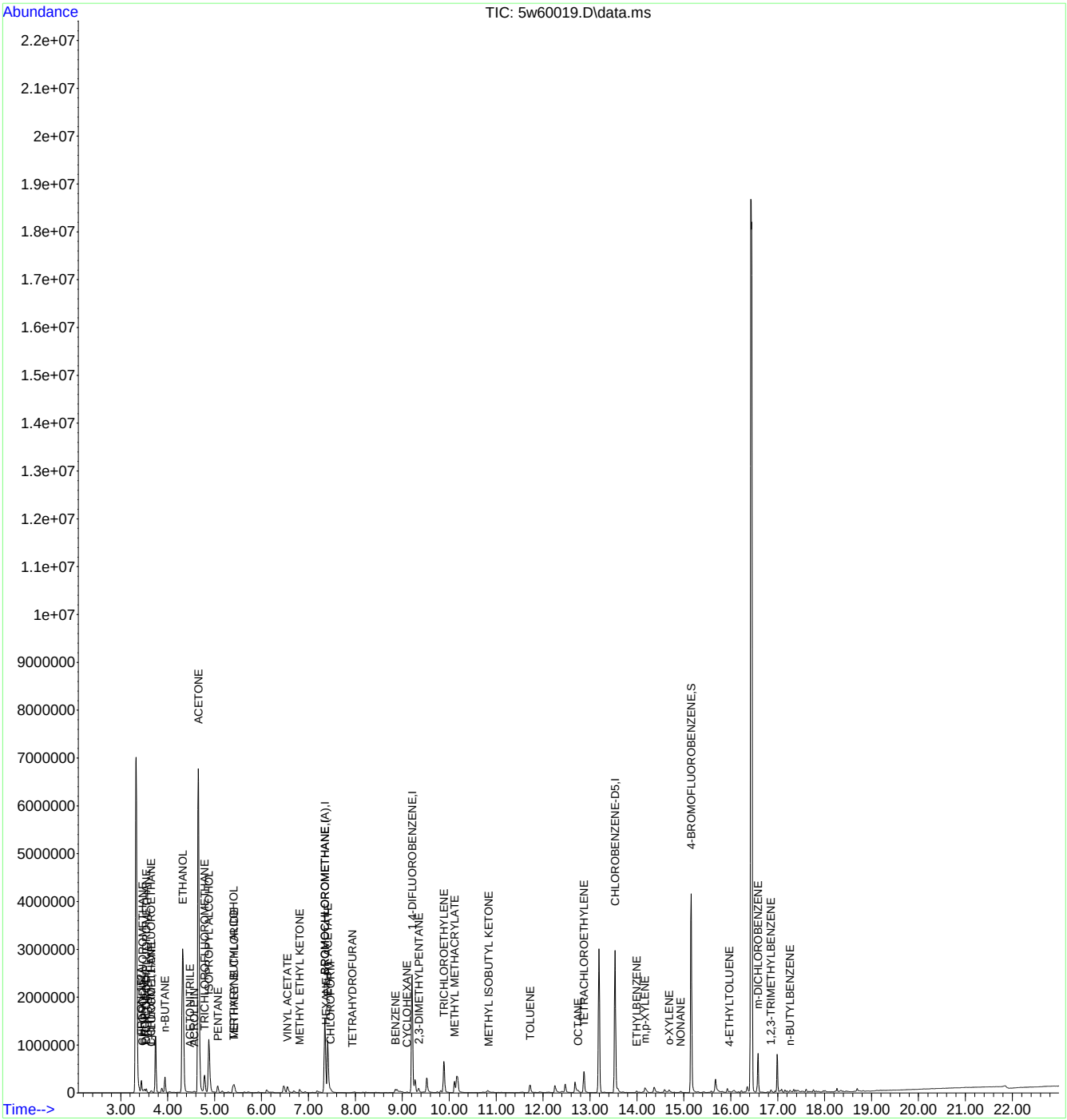
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	488279	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2202107	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1020272	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	488279	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1423658	11.17	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.70%				
Target Compounds							Qvalue
3) FREON 152A	3.439	65	107689	2.9738	PPBV		96
4) CHLORODIFLUOROMETHANE	3.469	67	5639	0.3723	PPBV		74
6) DICHLORODIFLUOROMETHANE	3.543	85	68719	0.4918	PPBV		98
7) PROPYLENE	3.500	41	24040	0.6414	PPBV		77
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	18176	0.1606	PPBV	#	66
10) CHLOROMETHANE	3.659	52	8276	0.5393	PPBV		100
13) n-BUTANE	3.940	43	275099	5.9115	PPBV		97
17) ACETONITRILE	4.479	41	8095	0.3045	PPBV	#	87
18) ACROLEIN	4.564	56	18915	1.2520	PPBV		98
21) TRICHLOROFLUOROMETHANE	4.785	101	324984	2.7227	PPBV		100
22) ISOPROPYL ALCOHOL	4.876	45	1736681	18.1379	PPBV		97
23) ACETONE	4.650	58	3474276	181.4196	PPBV		89
24) PENTANE	5.066	42	56610	1.1380	PPBV		98
28) ETHANOL	4.320	45	4654082	290.1297	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	30945	0.6316	PPBV		94
35) TERTIARY BUTYL ALCOHOL	5.396	59	264526	2.7018	PPBV		95
37) TETRAHYDROFURAN	7.929	72	2012	0.1061	PPBV	#	1
38) HEXANE	7.379	57	42515	0.5454	PPBV		98
39) VINYL ACETATE	6.553	86	20776	2.6352	PPBV	#	5
41) METHYL ETHYL KETONE	6.810	72	28436	1.5077	PPBV		90
44) ETHYL ACETATE	7.409	61	227301	15.7720	PPBV		92
46) CHLOROFORM	7.476	83	32013	0.2949	PPBV		99
52) BENZENE	8.853	78	69011	0.4678	PPBV		98
53) CYCLOHEXANE	9.104	84	7041	0.1195	PPBV		80
54) 2,3-DIMETHYLPENTANE	9.348	71	16501	0.5540	PPBV	#	73
55) TRICHLOROETHYLENE	9.887	95	222840	2.9652	PPBV		99
63) METHYL METHACRYLATE	10.113	69	111652	2.3221	PPBV	#	56
64) METHYL ISOBUTYL KETONE	10.847	58	5567	0.1279	PPBV	#	57
66) TOLUENE	11.722	92	87683	0.7951	PPBV		98
73) TETRACHLOROETHYLENE	12.872	164	112335	1.6141	PPBV		99
76) OCTANE	12.744	43	41284m	0.4260	PPBV		
79) ETHYLBENZENE	13.992	91	34547	0.1767	PPBV		95
80) m,p-XYLENE	14.169	106	44393	0.5760	PPBV		99
81) o-XYLENE	14.683	106	18121	0.2511	PPBV		94
83) NONANE	14.934	43	21895	0.2233	PPBV		81
92) 4-ETHYLTOLUENE	15.968	105	19388m	0.0959	PPBV		
97) m-DICHLOROBENZENE	16.586	146	29614	0.2209	PPBV		94
101) 1,2,3-TRIMETHYLBENZENE	16.855	105	19093	0.1030	PPBV		84
104) n-BUTYLBENZENE	17.259	134	7813	0.1456	PPBV	#	1

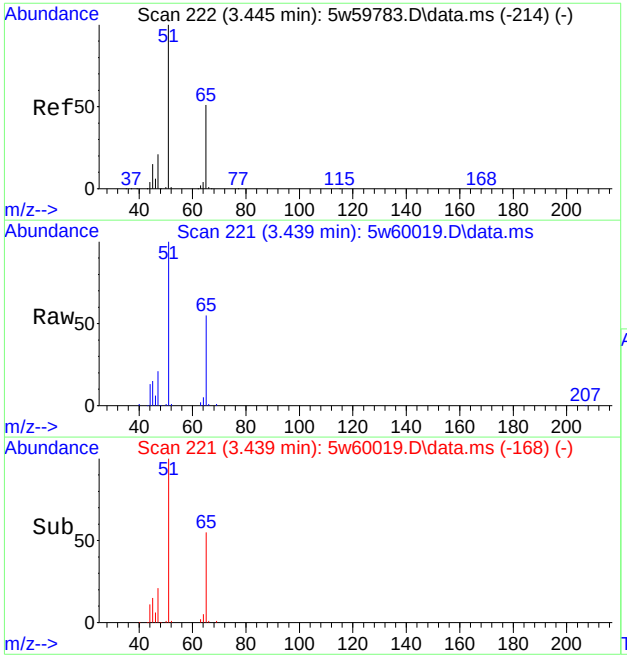
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60019.D
Acq On : 25 Nov 2025 12:29 am
Operator : benk
Sample : je23793-5
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 27 01:56:38 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

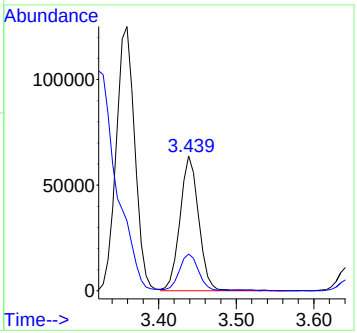


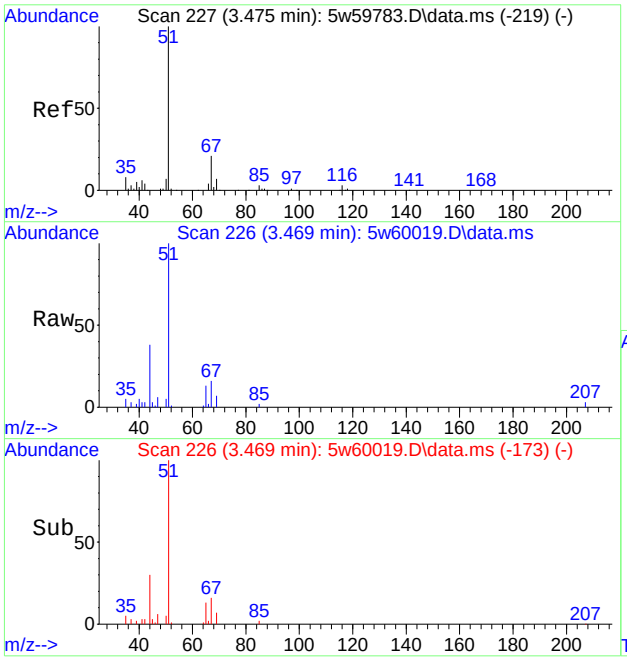


#3
FREON 152A
Concen: 2.97 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 65 Resp: 107689

Ion	Ratio	Lower	Upper
65	100		
45	28.0	0.0	60.0

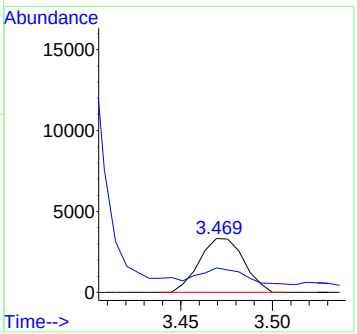


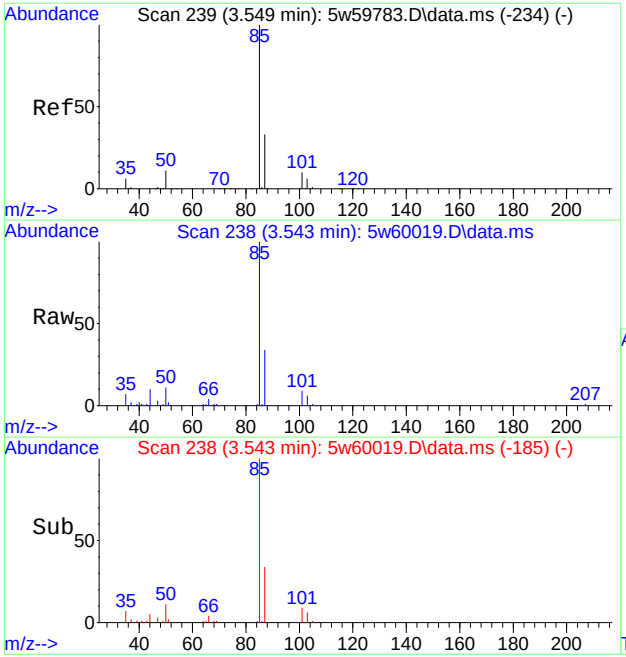


#4
CHLORODIFLUOROMETHANE
Concen: 0.37 PPBV
RT: 3.469 min Scan# 226
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 67 Resp: 5639

Ion	Ratio	Lower	Upper
67	100		
69	45.2	1.0	61.0

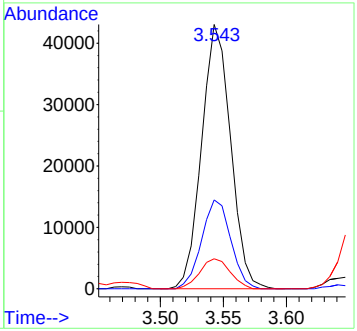


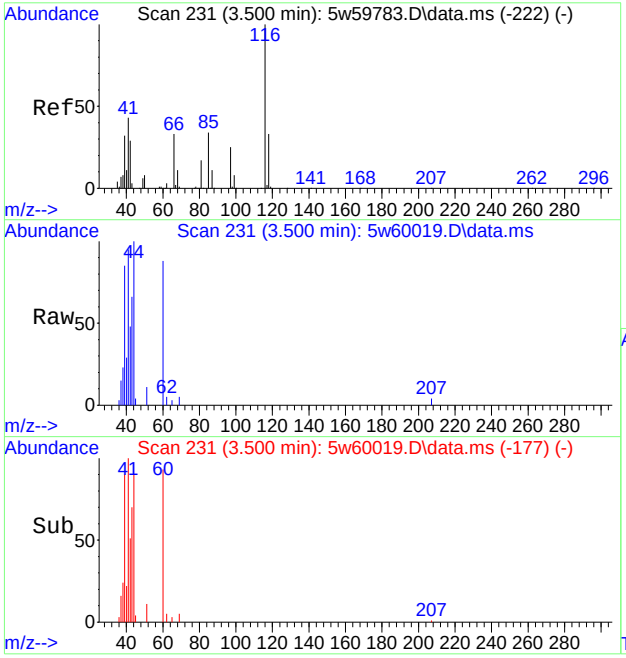


#6
DICHLORODIFLUOROMETHANE
Concen: 0.49 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 85 Resp: 68719

Ion	Ratio	Lower	Upper
85	100		
87	33.7	2.5	62.5
50	11.9	0.0	41.7

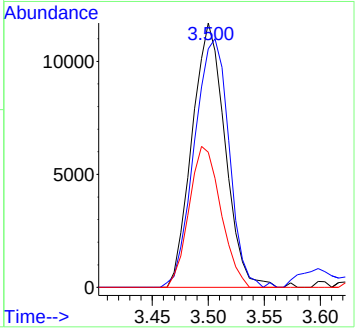


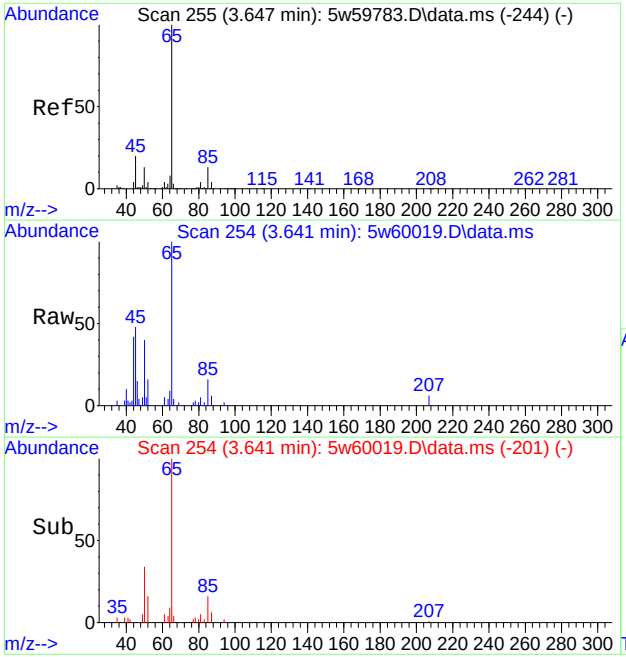


#7
PROPYLENE
Concen: 0.64 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 41 Resp: 24040

Ion	Ratio	Lower	Upper
41	100		
39	98.5	45.1	105.1
42	51.2	36.3	96.3

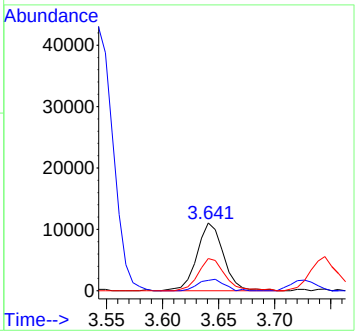


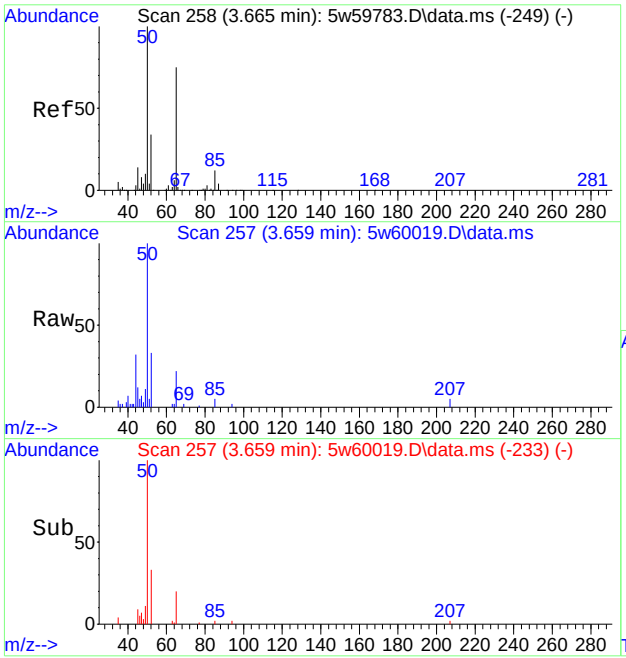


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.16 PPBV
RT: 3.641 min Scan# 254
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 65 Resp: 18176

Ion	Ratio	Lower	Upper
65	100		
85	16.7	11.5	21.3
45	48.2	14.0	26.0#

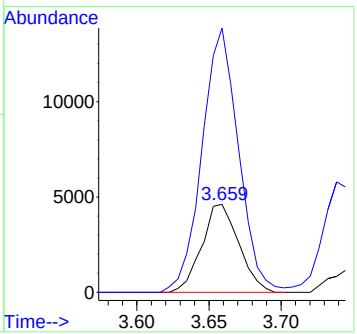


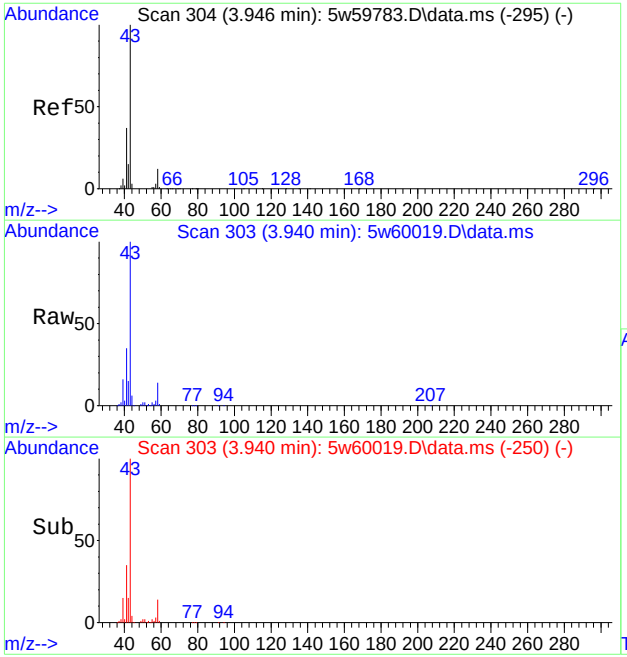


#10
CHLOROMETHANE
Concen: 0.54 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 52 Resp: 8276

Ion	Ratio	Lower	Upper
52	100		
50	297.4	267.9	327.9

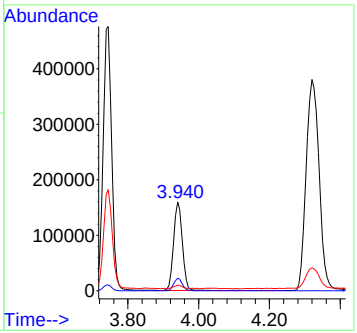


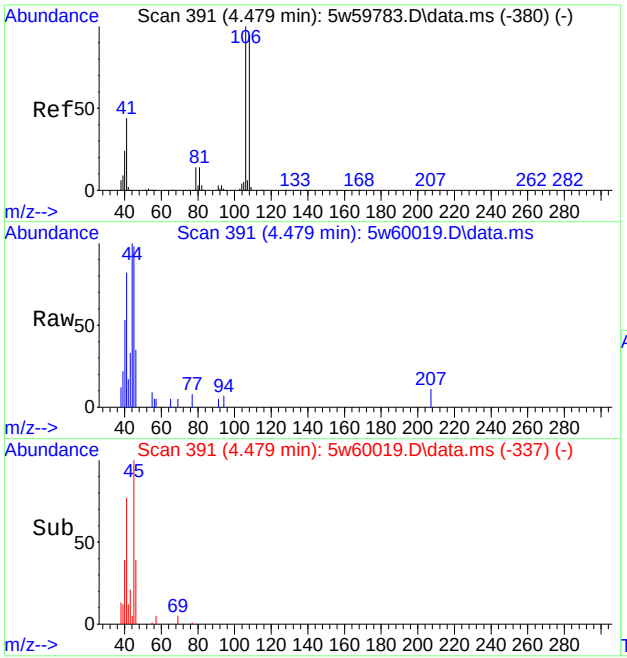


#13
n-BUTANE
Concen: 5.91 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 43 Resp: 275099

Ion	Ratio	Lower	Upper
43	100		
58	13.8	0.0	42.6
44	4.0	0.0	34.9

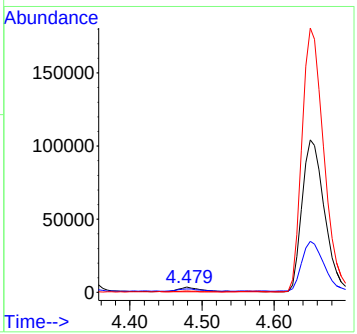


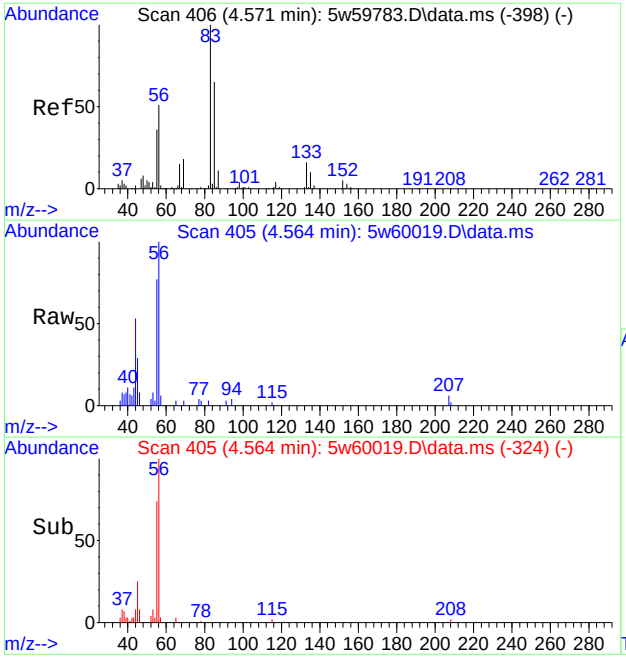


#17
ACETONITRILE
Concen: 0.30 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 41 Resp: 8095

Ion	Ratio	Lower	Upper
41	100		
40	45.0	37.9	70.5
39	12.2	13.4	24.8#

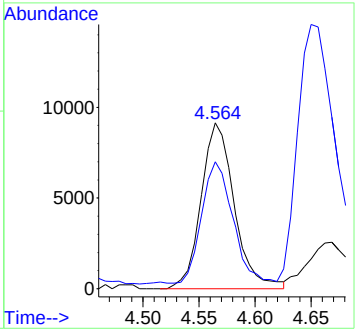


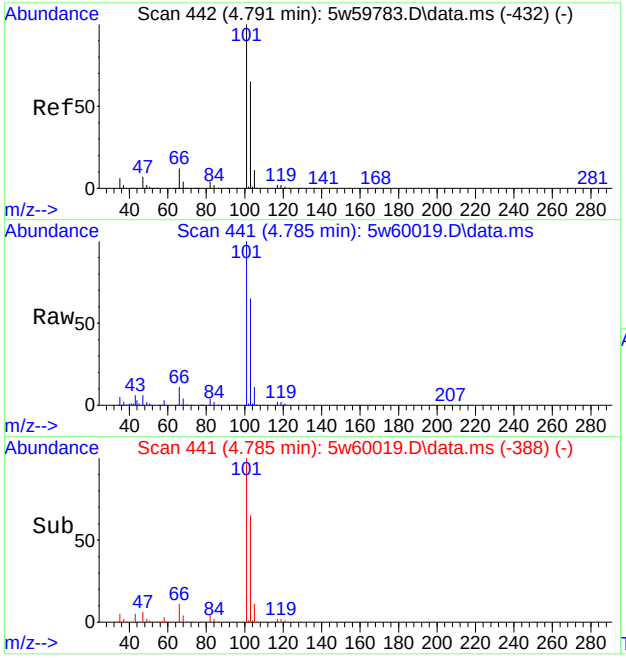


#18
ACROLEIN
Concen: 1.25 PPBV
RT: 4.564 min Scan# 405
Delta R.T. -0.007 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 56 Resp: 18915

Ion	Ratio	Lower	Upper
56	100		
55	68.2	46.6	86.6

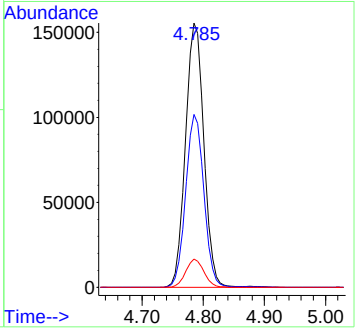


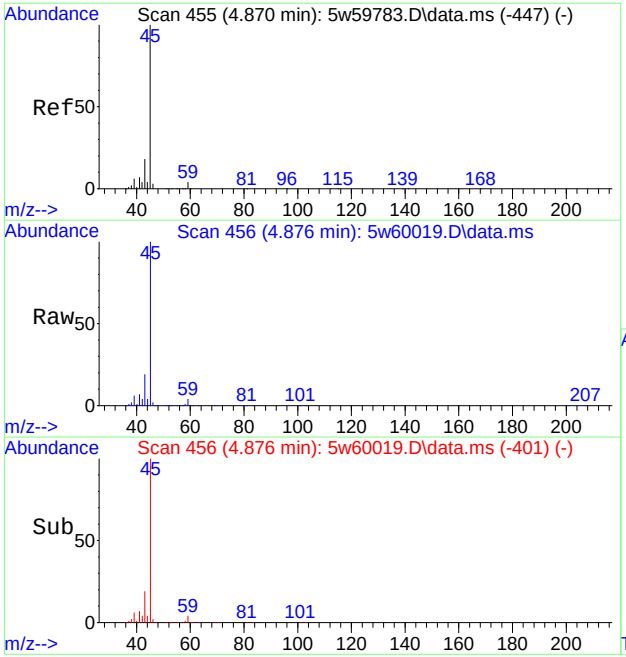


#21
TRICHLOROFLUOROMETHANE
Concen: 2.72 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion:101 Resp: 324984

Ion	Ratio	Lower	Upper
101	100		
103	65.0	35.0	95.0
105	10.6	0.0	40.7

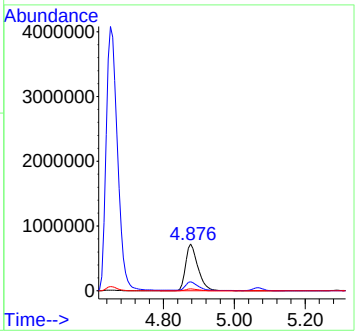


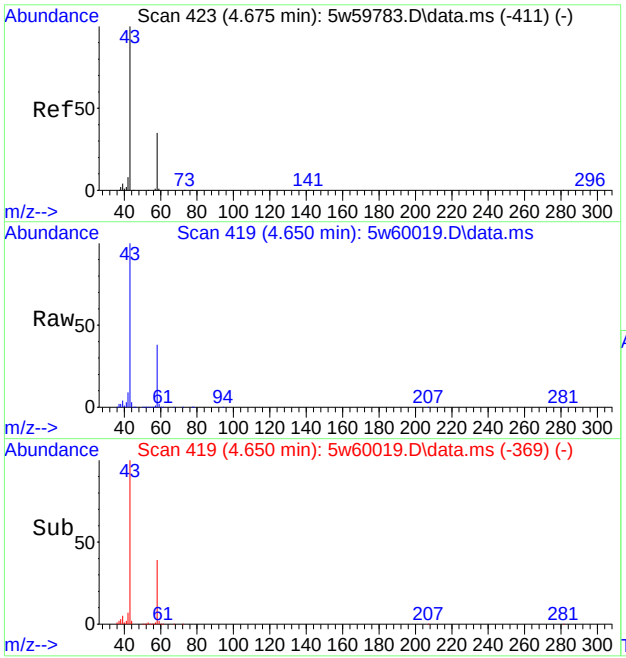


#22
ISOPROPYL ALCOHOL
Concen: 18.14 PPBV
RT: 4.876 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 45 Resp: 1736681

Ion	Ratio	Lower	Upper
45	100		
43	19.1	0.0	47.8
59	4.3	0.0	34.1

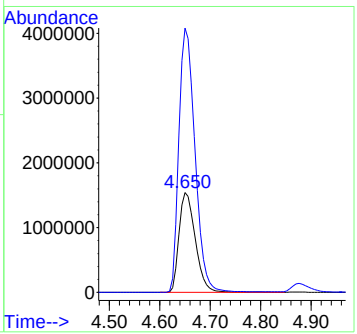


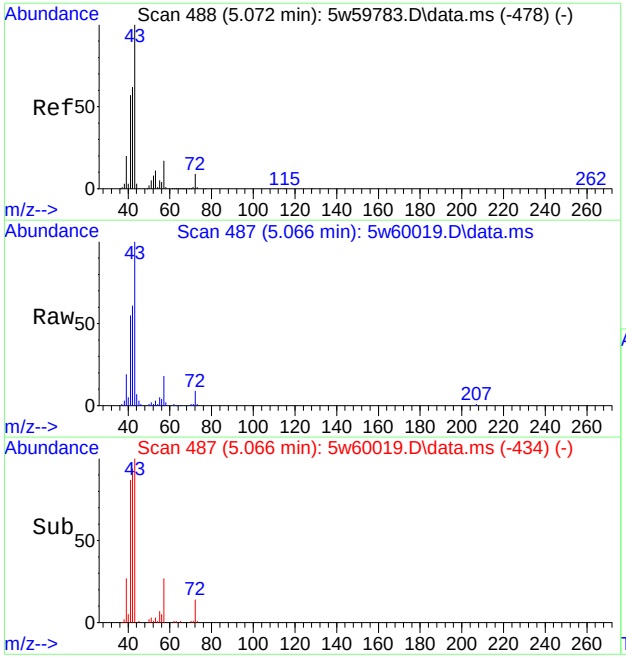


#23
ACETONE
Concen: 181.42 PPBV
RT: 4.650 min Scan# 419
Delta R.T. -0.025 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 58 Resp: 3474276

Ion	Ratio	Lower	Upper
58	100		
43	262.0	252.3	312.3

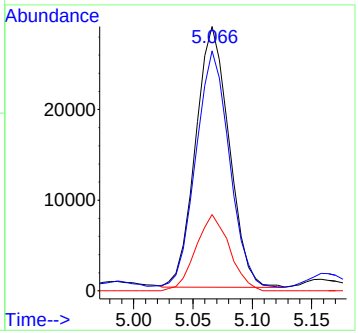


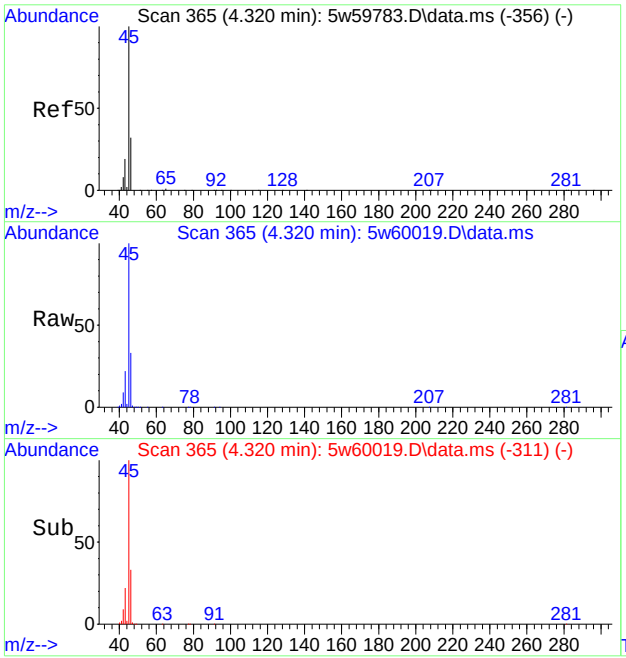


#24
PENTANE
Concen: 1.14 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 42 Resp: 56610

Ion	Ratio	Lower	Upper
42	100		
41	90.2	62.3	122.3
57	29.3	0.0	57.7

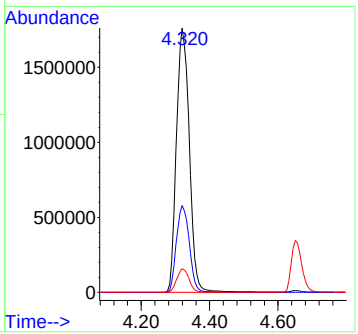


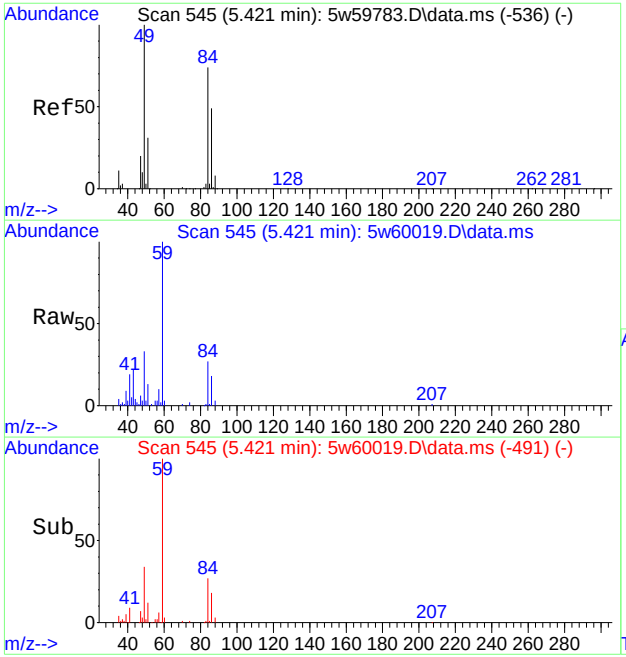


#28
ETHANOL
Concen: 290.13 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 45 Resp: 4654082

Ion	Ratio	Lower	Upper
45	100		
46	33.1	2.0	62.0
42	8.5	0.0	38.5

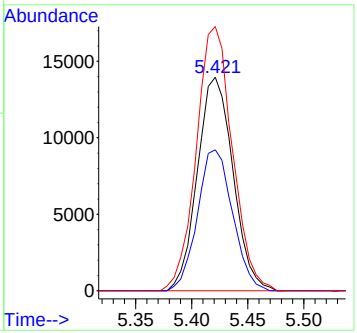


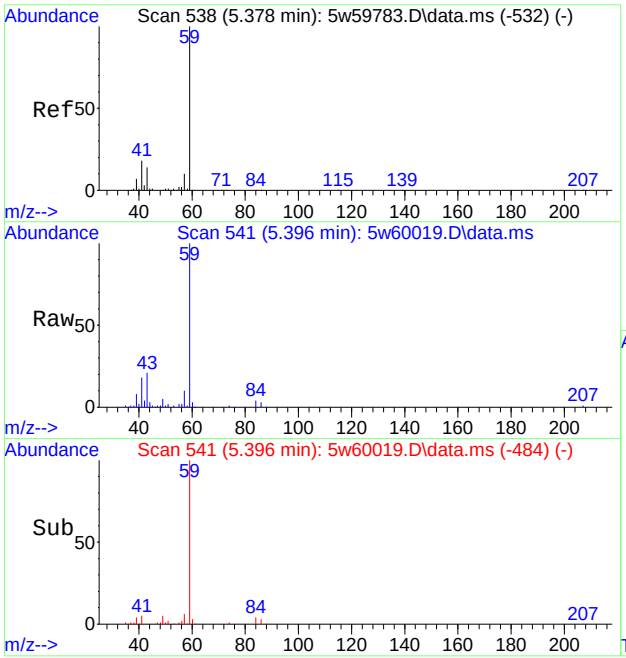


#31
METHYLENE CHLORIDE
Concen: 0.63 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 84 Resp: 30945

Ion	Ratio	Lower	Upper
84	100		
86	64.9	35.2	95.2
49	125.2	105.3	165.3

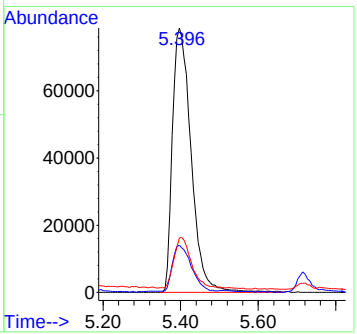


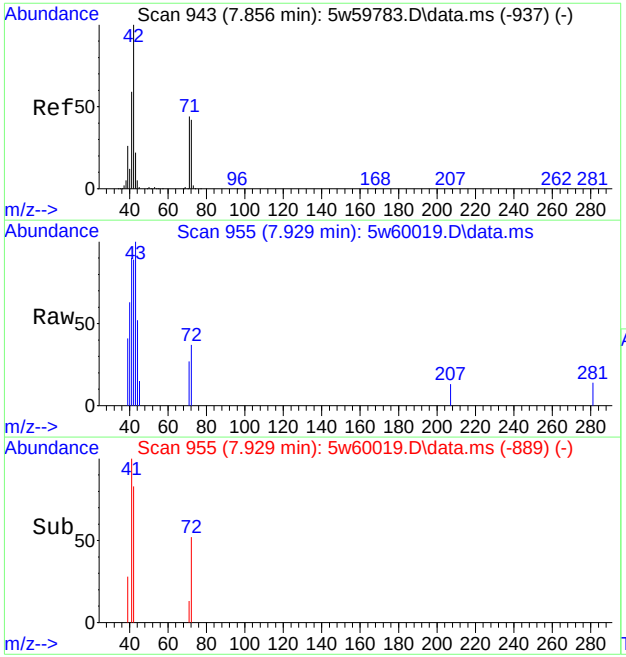


#35
TERTIARY BUTYL ALCOHOL
Concen: 2.70 PPBV
RT: 5.396 min Scan# 541
Delta R.T. 0.018 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 59 Resp: 264526

Ion	Ratio	Lower	Upper
59	100		
41	19.3	0.0	49.3
43	18.9	0.0	44.1

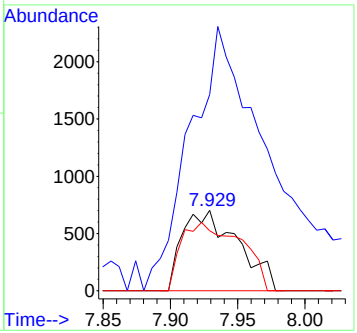


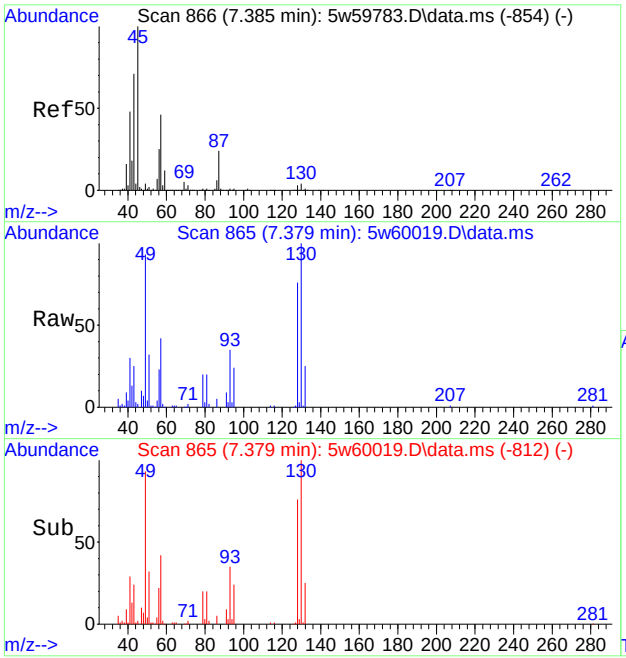


#37
TETRAHYDROFURAN
Concen: 0.11 PPBV
RT: 7.929 min Scan# 955
Delta R.T. 0.073 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 72 Resp: 2012

Ion	Ratio	Lower	Upper
72	100		
42	564.4	202.4	262.4#
71	91.5	71.1	131.1

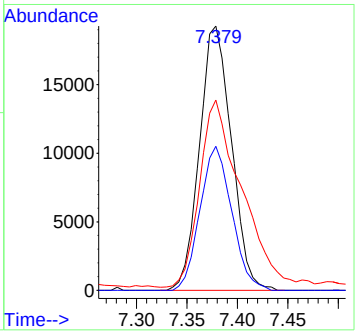


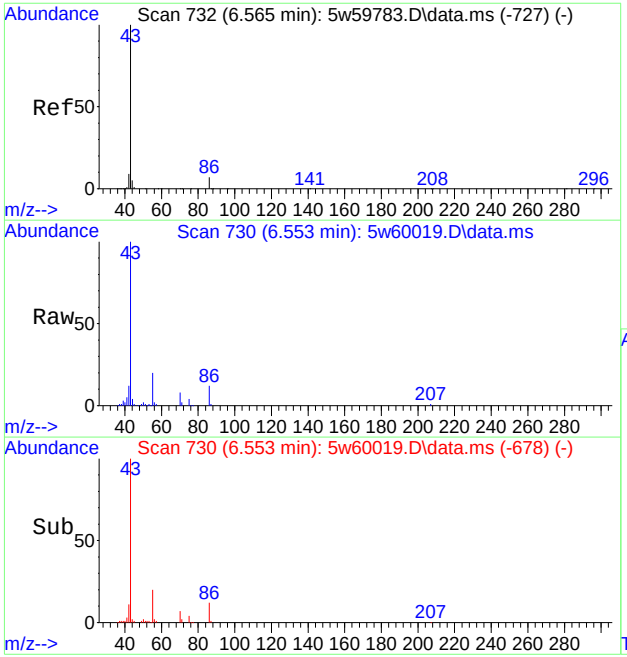


#38
HEXANE
Concen: 0.55 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 57 Resp: 42515

Ion	Ratio	Lower	Upper
57	100		
56	54.2	25.9	85.9
41	102.5	74.7	134.7

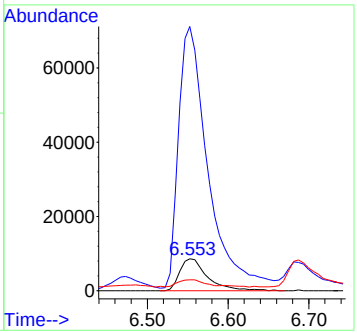


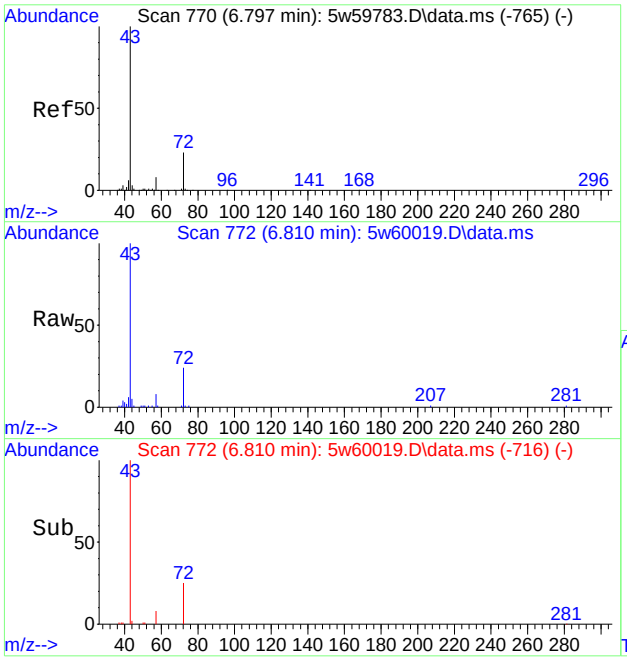


#39
VINYL ACETATE
Concen: 2.64 PPBV
RT: 6.553 min Scan# 730
Delta R.T. -0.012 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 86 Resp: 20776

Ion	Ratio	Lower	Upper
86	100		
43	857.8	1379.7	1439.7#
44	24.6	36.9	96.9#

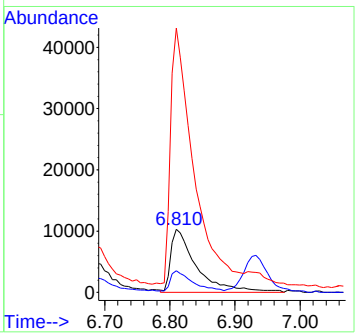


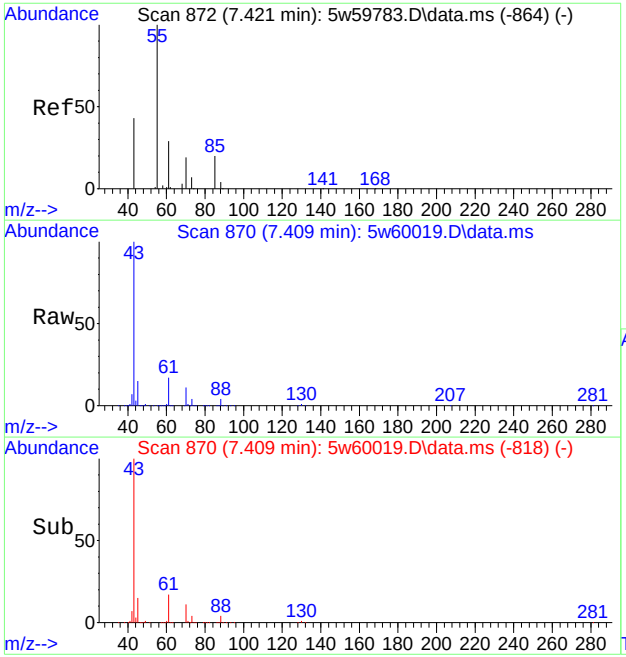


#41
METHYL ETHYL KETONE
Concen: 1.51 PPBV
RT: 6.810 min Scan# 772
Delta R.T. 0.013 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 72 Resp: 28436

Ion	Ratio	Lower	Upper
72	100		
57	34.5	4.8	64.8
43	419.7	415.9	475.9

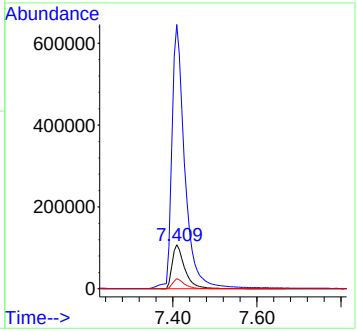


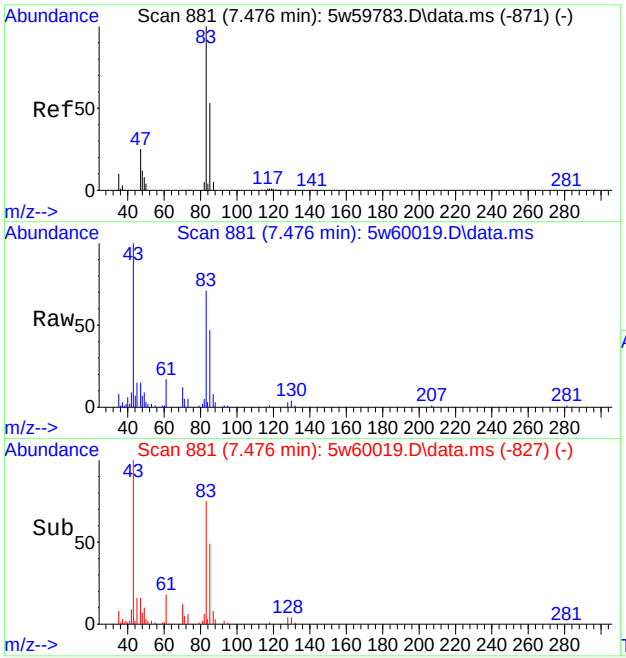


#44
ETHYL ACETATE
Concen: 15.77 PPBV
RT: 7.409 min Scan# 870
Delta R.T. -0.012 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 61 Resp: 227301

Ion	Ratio	Lower	Upper
61	100		
43	611.9	560.5	620.5
88	21.6	4.5	64.5

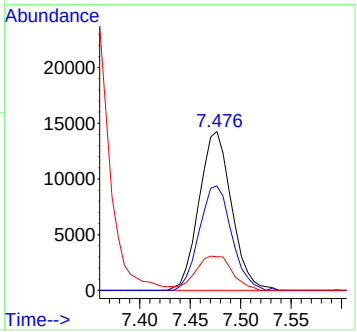


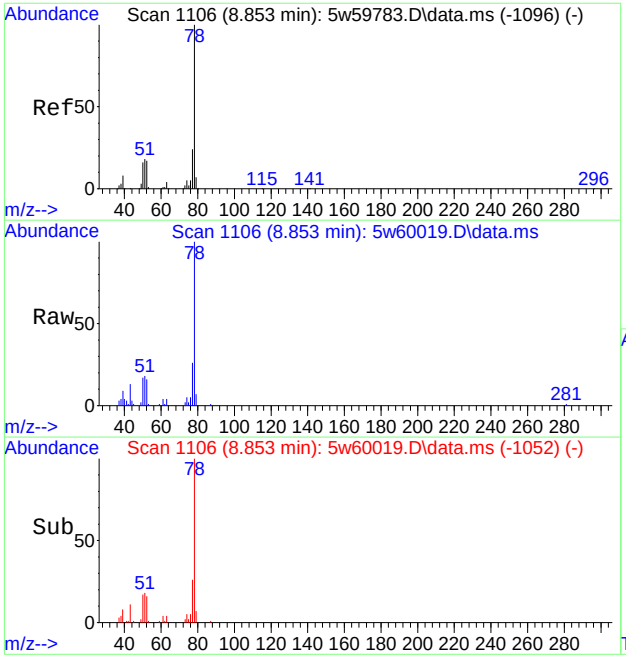


#46
CHLOROFORM
Concen: 0.29 PPBV
RT: 7.476 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 83 Resp: 32013

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.6	95.6
47	24.3	0.0	55.2

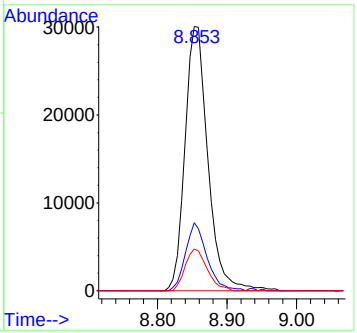


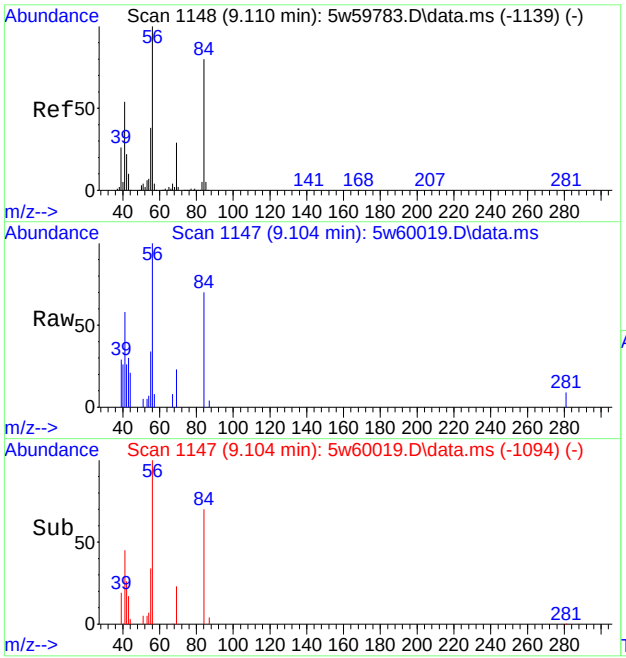


#52
BENZENE
Concen: 0.47 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 78 Resp: 69011

Ion	Ratio	Lower	Upper
78	100		
77	24.0	0.0	53.8
52	15.1	0.0	46.9

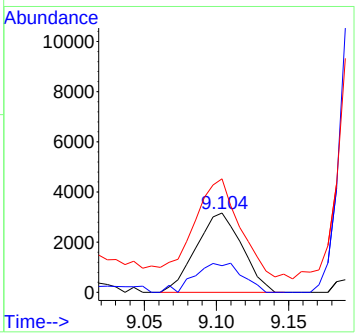


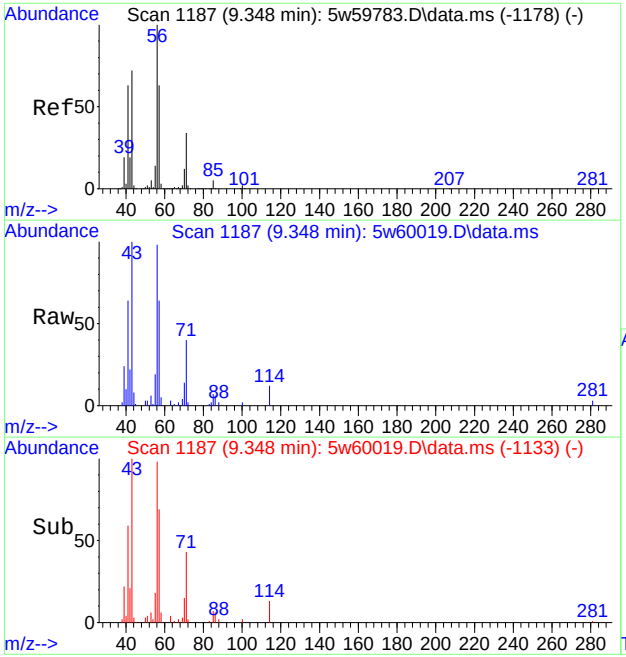


#53
CYCLOHEXANE
Concen: 0.12 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 84 Resp: 7041

Ion	Ratio	Lower	Upper
84	100		
69	38.2	6.9	66.9
56	157.0	98.2	158.2

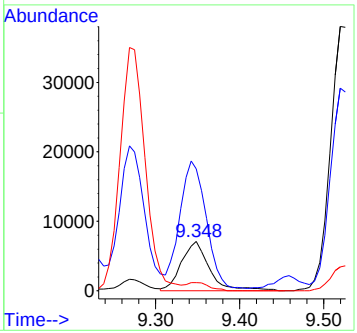


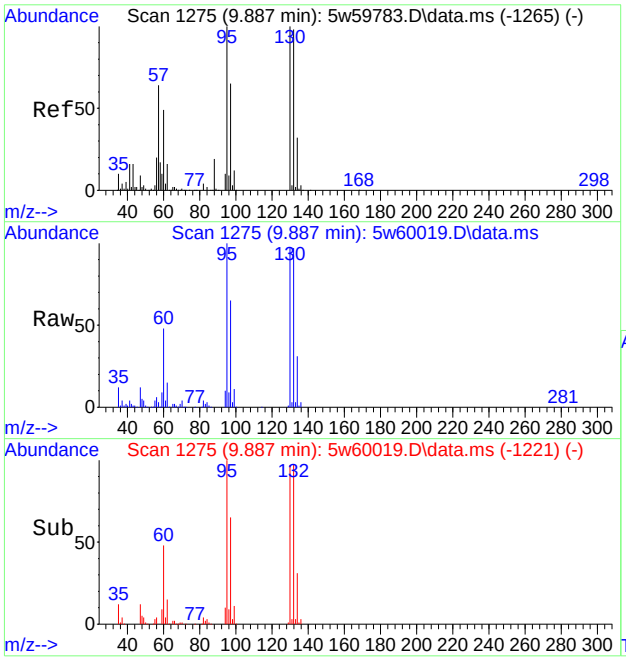


#54
2,3-DIMETHYLPENTANE
Concen: 0.55 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 71 Resp: 16501

Ion	Ratio	Lower	Upper
71	100		
56	243.4	264.6	324.6#
85	0.0	0.0	45.3

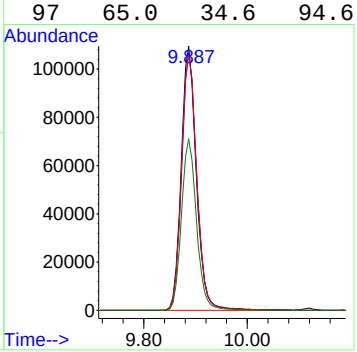


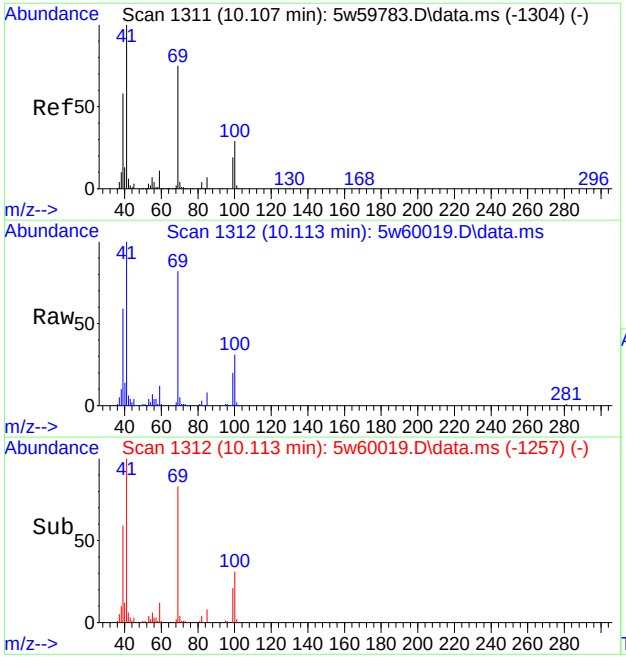


#55
TRICHLOROETHYLENE
Concen: 2.97 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 95 Resp: 222840

Ion	Ratio	Lower	Upper
95	100		
132	98.0	69.0	129.0
130	98.5	70.6	130.6
97	65.0	34.6	94.6

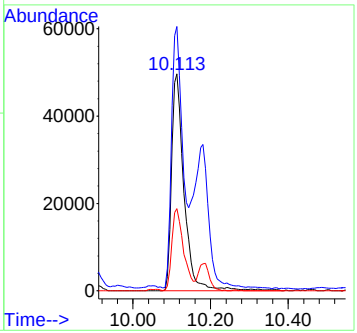


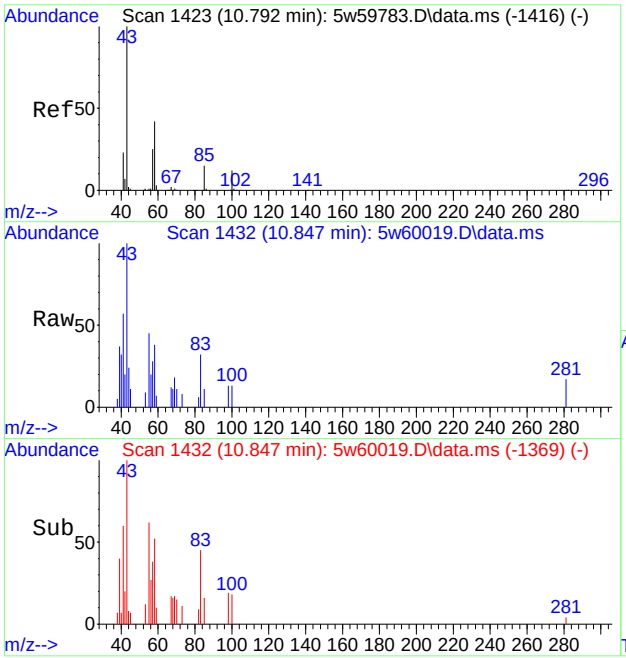


#63
METHYL METHACRYLATE
Concen: 2.32 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 69 Resp: 111652

Ion	Ratio	Lower	Upper
69	100		
41	190.3	95.3	155.3#
100	35.6	6.3	66.3

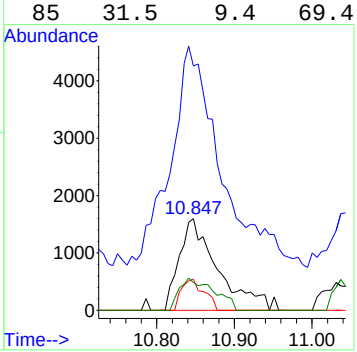


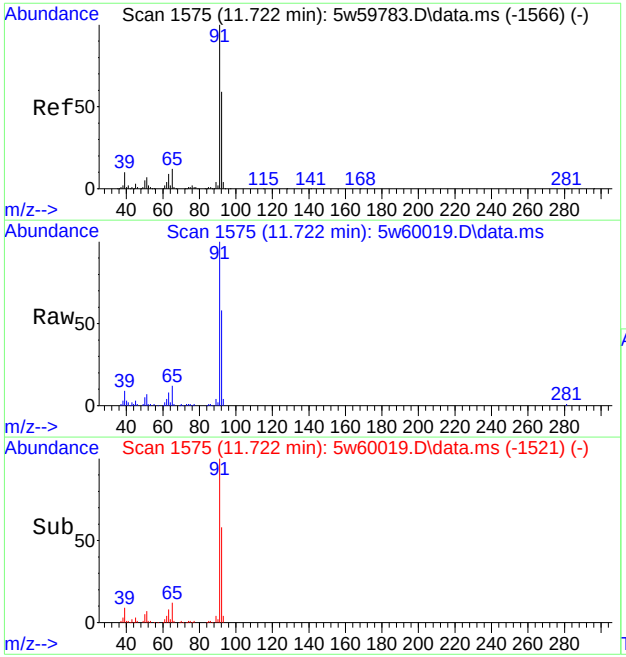


#64
METHYL ISOBUTYL KETONE
Concen: 0.13 PPBV
RT: 10.847 min Scan# 1432
Delta R.T. 0.055 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 58 Resp: 5567

Ion	Ratio	Lower	Upper
58	100		
43	325.4	209.2	269.2#
100	19.8	0.0	58.8
85	31.5	9.4	69.4

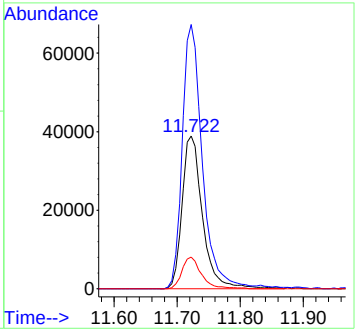


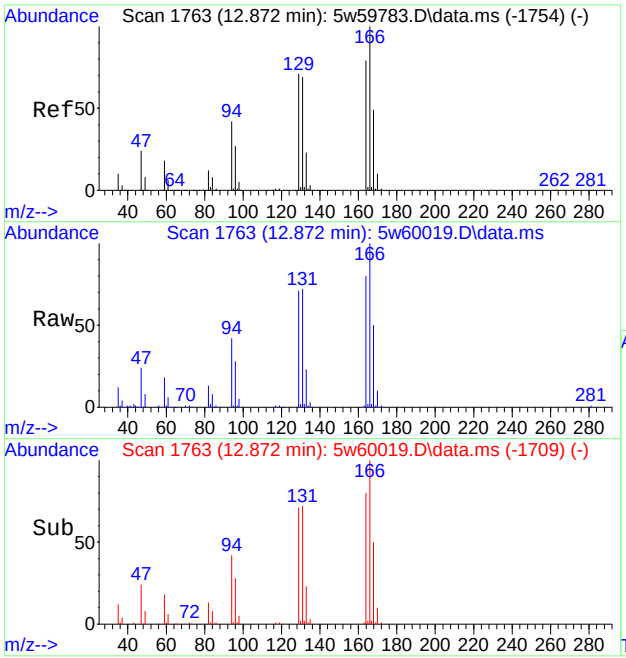


#66
TOLUENE
Concen: 0.80 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 92 Resp: 87683

Ion	Ratio	Lower	Upper
92	100		
91	172.1	140.1	200.1
65	19.8	0.0	53.1

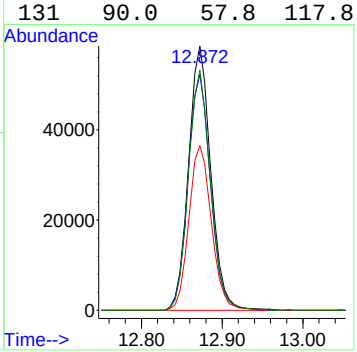


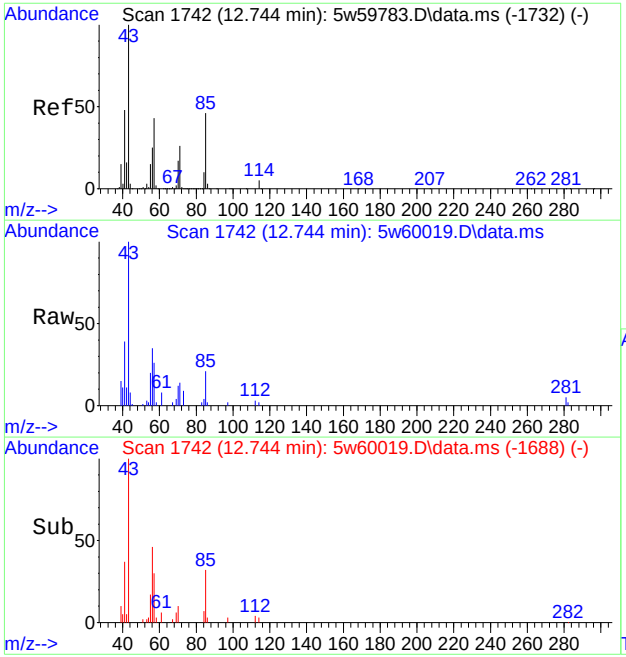


#73
TETRACHLOROETHYLENE
Concen: 1.61 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion:164 Resp: 112335

Ion	Ratio	Lower	Upper
164	100		
129	89.9	59.7	119.7
168	63.0	32.2	92.2
131	90.0	57.8	117.8

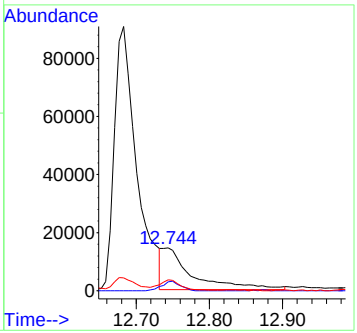


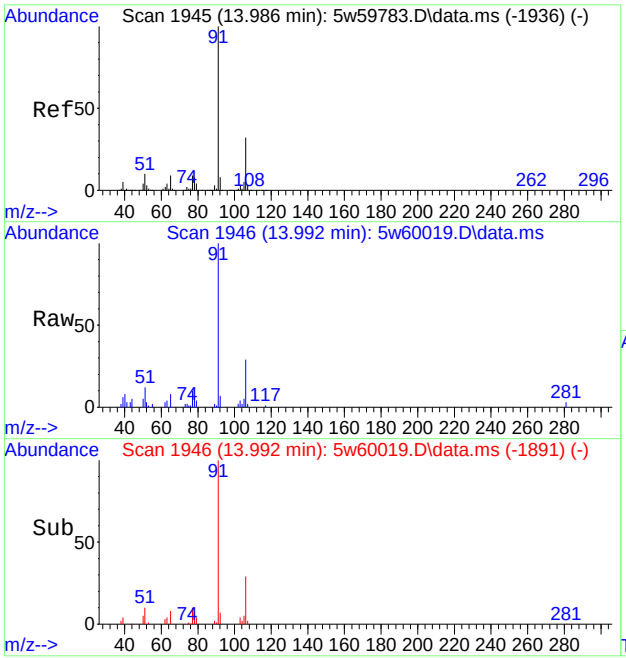


#76
OCTANE
Concen: 0.43 PPBV m
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 43 Resp: 41284

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	23.8	13.7	73.7

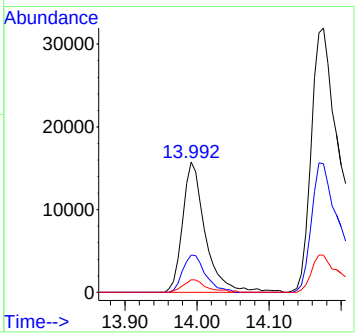


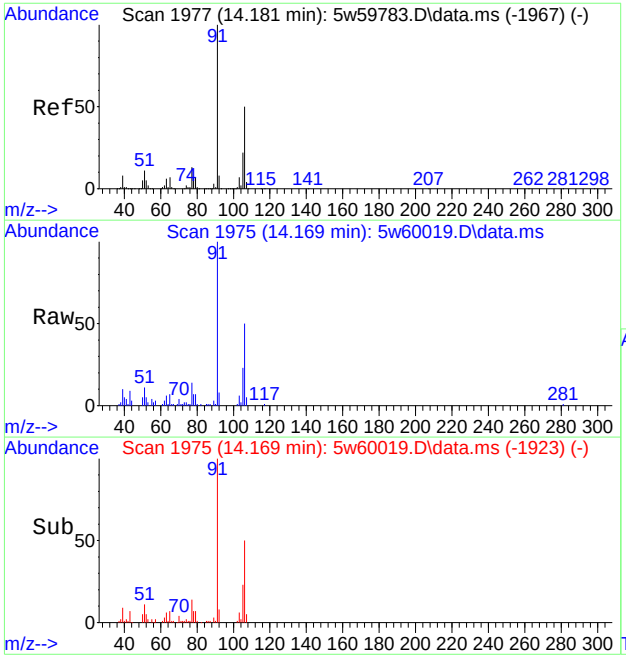


#79
ETHYLBENZENE
Concen: 0.18 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 91 Resp: 34547

Ion	Ratio	Lower	Upper
91	100		
106	28.6	1.3	61.3
77	10.0	0.0	38.6

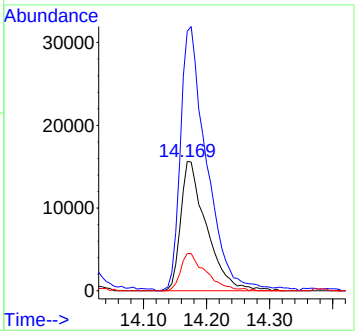


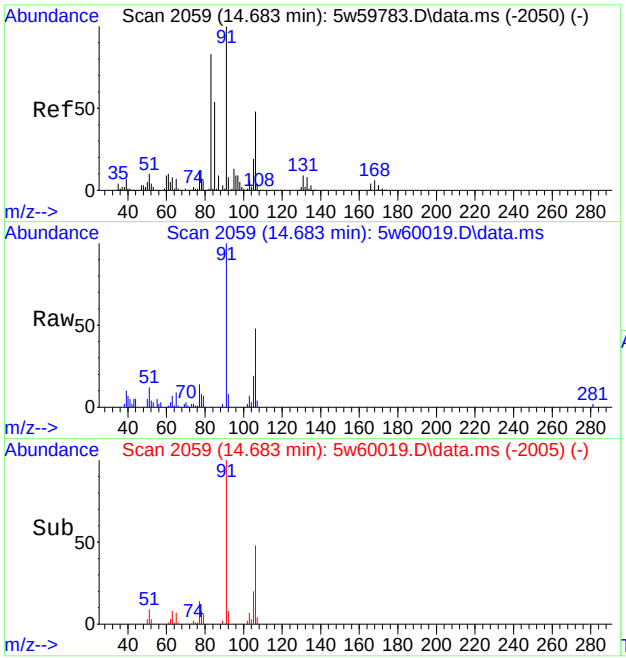


#80
m,p-XYLENE
Concen: 0.58 PPBV
RT: 14.169 min Scan# 1975
Delta R.T. -0.012 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion:106 Resp: 44393

Ion	Ratio	Lower	Upper
106	100		
91	200.5	171.0	231.0
77	28.7	0.0	56.7

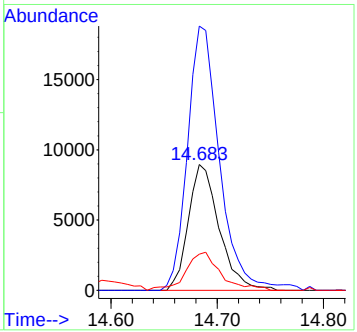


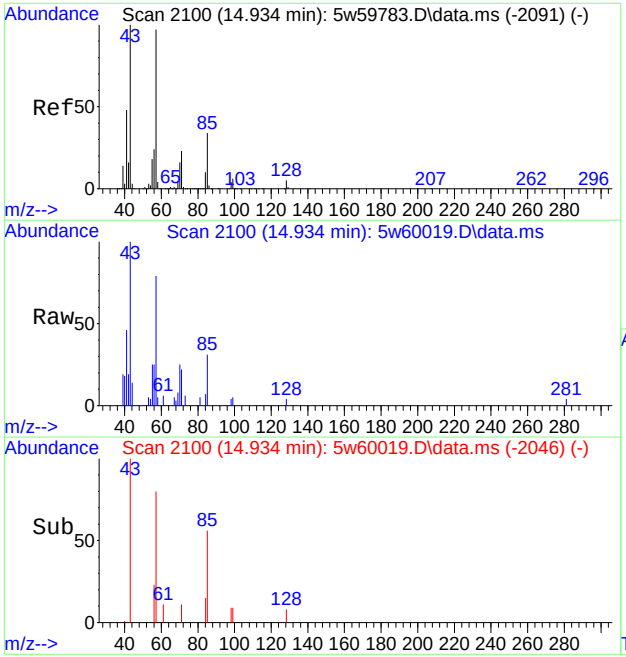


#81
o-XYLENE
Concen: 0.25 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion:106 Resp: 18121

Ion	Ratio	Lower	Upper
106	100		
91	219.1	181.6	241.6
77	34.1	0.0	56.6

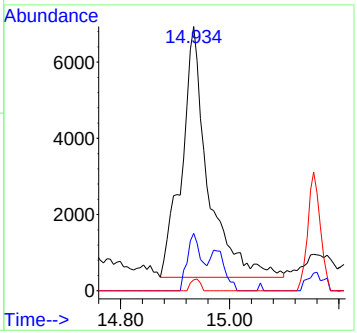


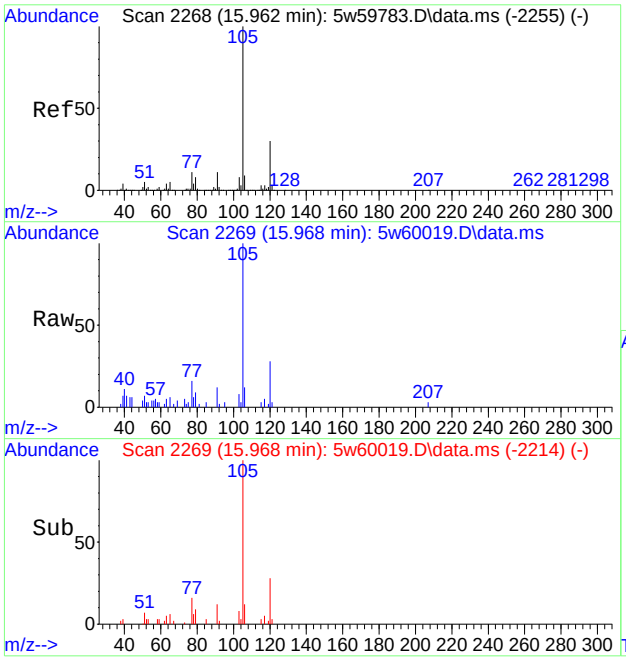


#83
NONANE
Concen: 0.22 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion: 43 Resp: 21895

Ion	Ratio	Lower	Upper
43	100		
71	12.6	0.0	52.7
128	1.7	0.0	34.7

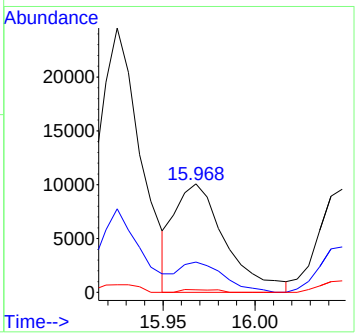


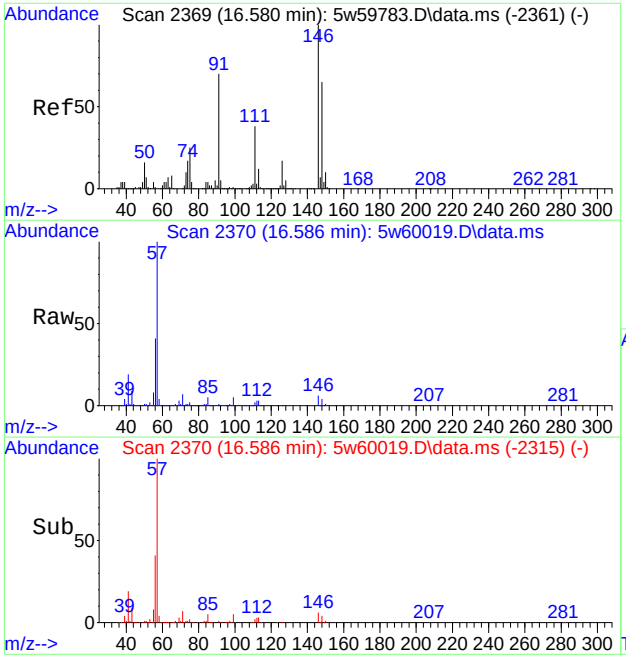


#92
4-ETHYLTOLUENE
Concen: 0.10 PPBV m
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion:105 Resp: 19388

Ion	Ratio	Lower	Upper
105	100		
120	63.8	0.0	59.9#
119	5.5	0.0	32.3

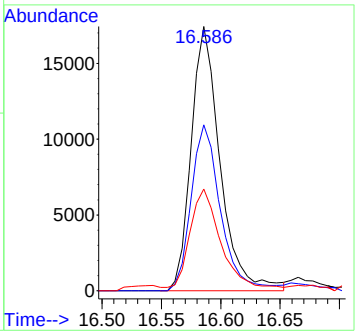


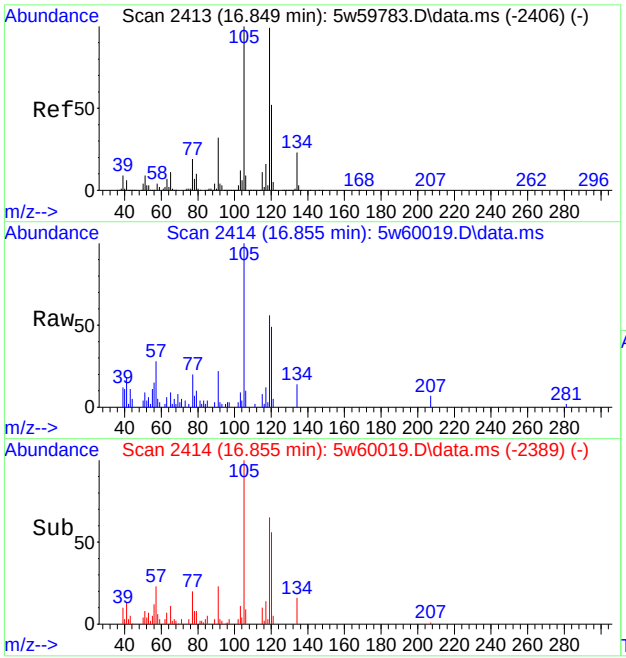


#97
m-DICHLOROBENZENE
Concen: 0.22 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion:146 Resp: 29614

Ion	Ratio	Lower	Upper
146	100		
148	67.3	34.8	94.8
111	44.6	8.2	68.2

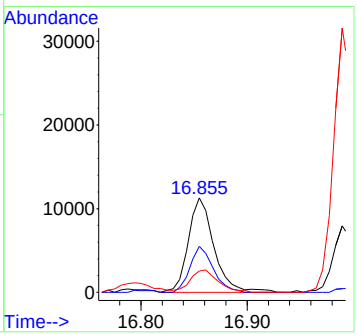


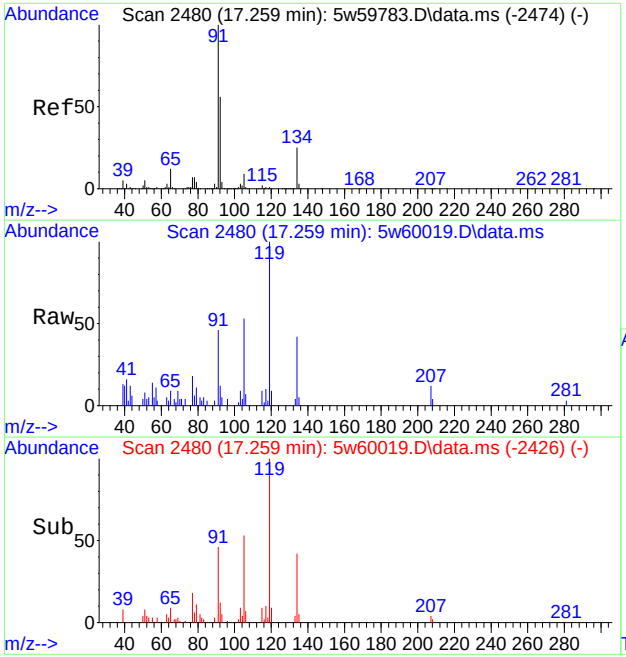


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion:105 Resp: 19093

Ion	Ratio	Lower	Upper
105	100		
120	43.8	23.5	83.5
91	25.6	7.4	67.4

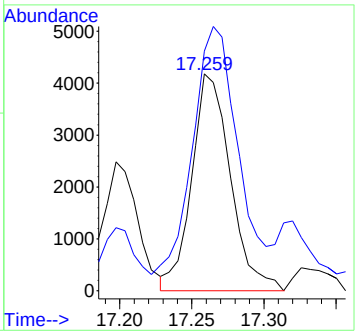




#104
n-BUTYLBENZENE
Concen: 0.15 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w60019.D
Acq: 25 Nov 2025 12:29 am

Tgt Ion:134 Resp: 7813

Ion	Ratio	Lower	Upper
134	100		
91	131.5	363.1	423.1#



Manual Integration Approval Summary

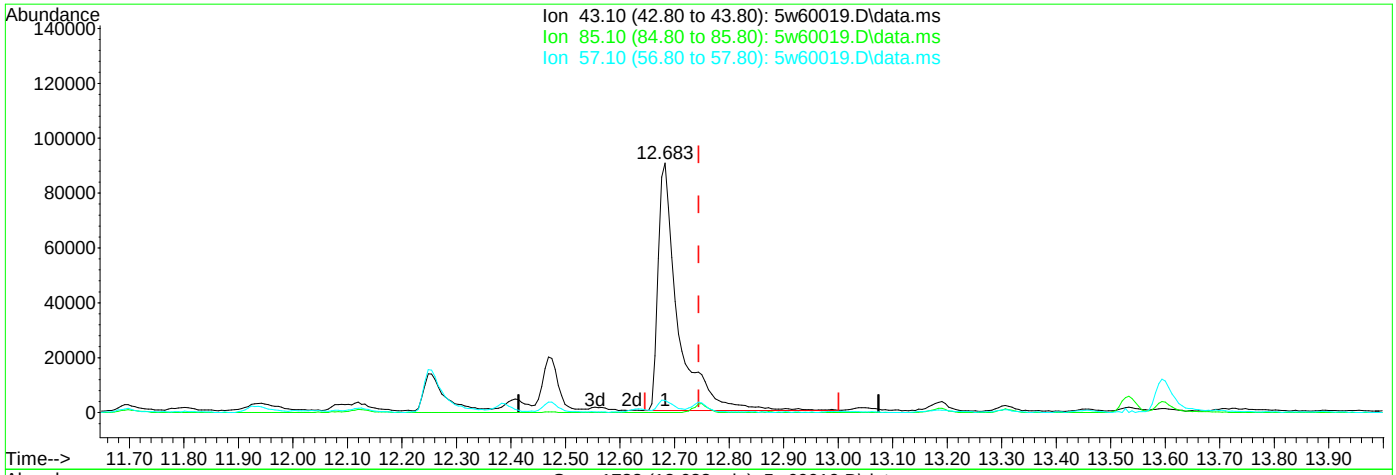
Sample Number: JE23793-5
Lab FileID: 5W60019.D
Injection Time: 11/25/25 00:29
Method: TO-15
Analyst approved: 11/25/25 16:57 Claire Basilio
Supervisor approved: 11/27/25 02:04 Kanya Veerawat

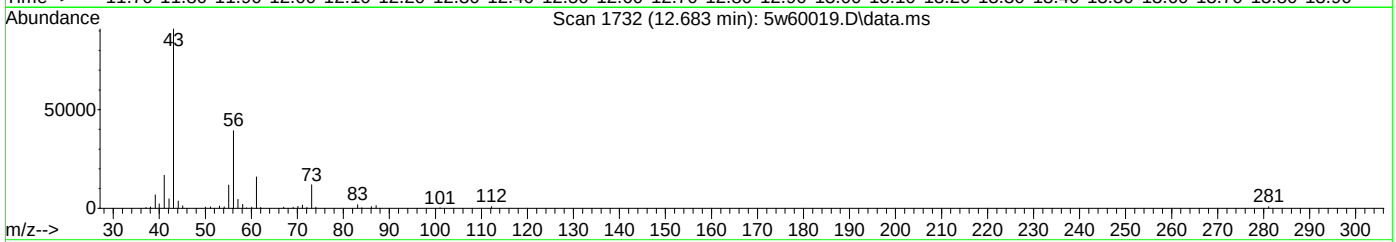
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octane	111-65-9		12.74	Overlapping peak
4-Ethyltoluene	622-96-8		15.97	Missed peak

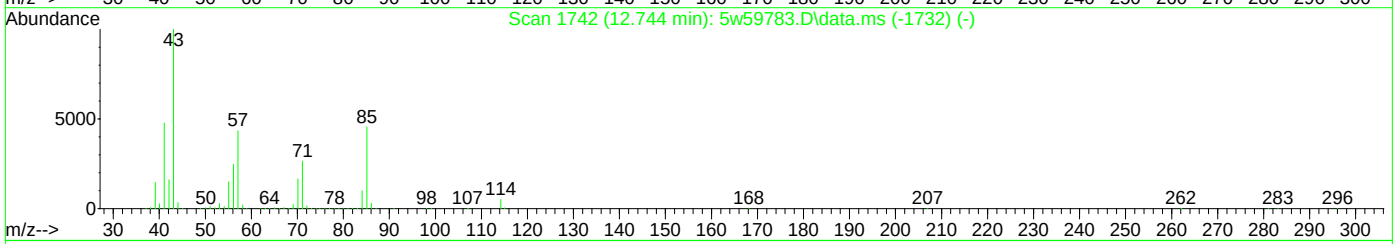
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60019.D
Acq On : 25 Nov 2025 12:29 am
Operator : benk
Sample : je23793-5 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 26 05:07:05 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60019.D\data.ms

(76) OCTANE

12.683min (-0.061) 2.38PPBV

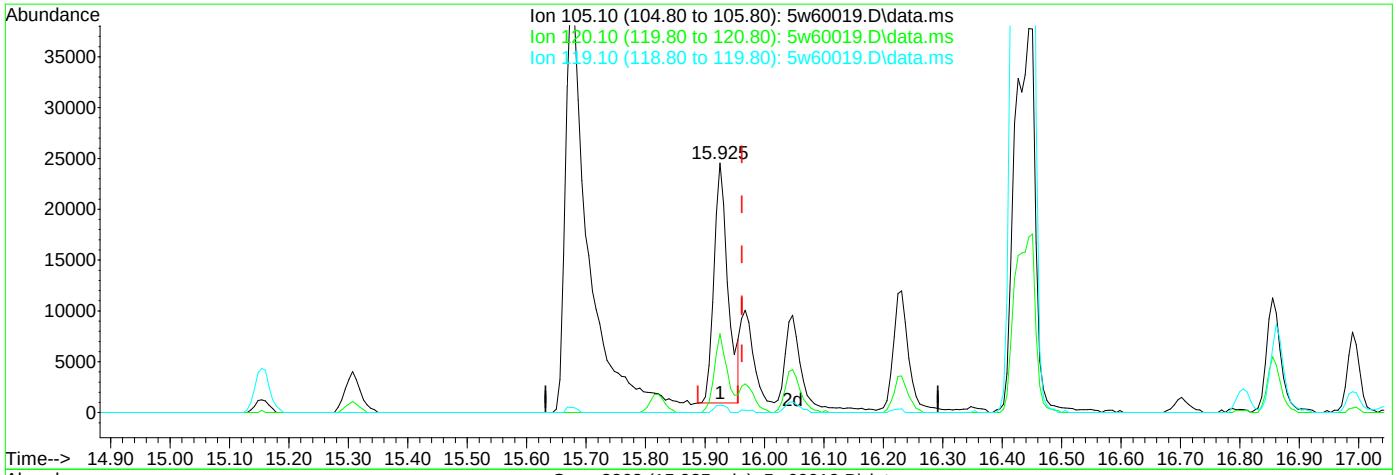
response 230675

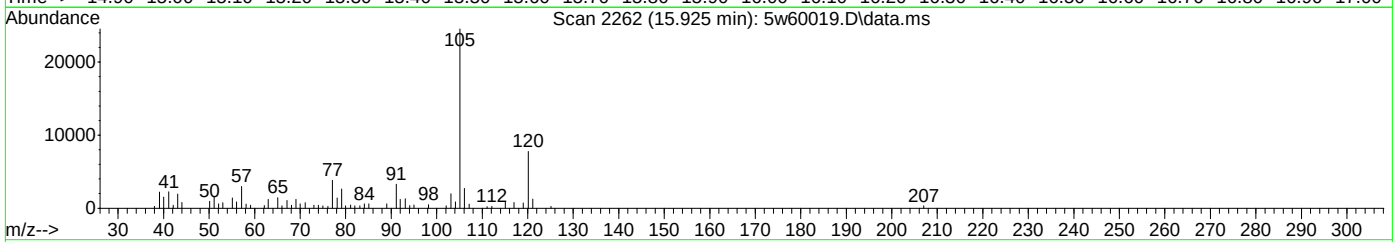
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	4.25#
0.00	0.00	0.00

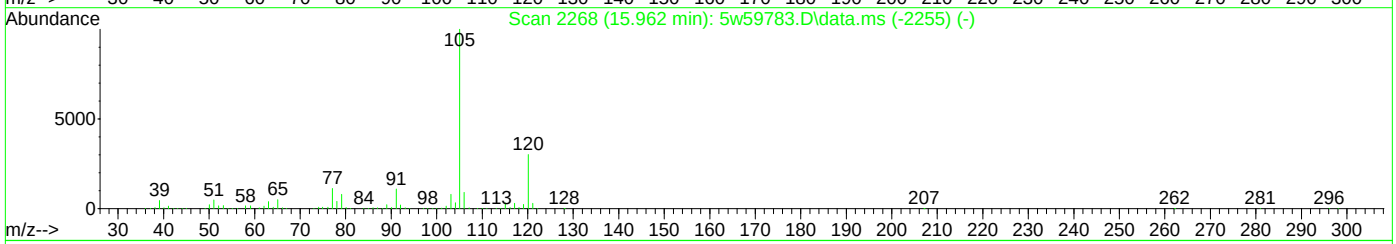
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60019.D
Acq On : 25 Nov 2025 12:29 am
Operator : benk
Sample : je23793-5 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 26 05:07:05 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60019.D\data.ms

(92) 4-ETHYLTOLUENE

15.925min (-0.037) 0.19PPBV

response 38980

Ion	Exp%	Act%
105.10	100	100
120.10	29.90	31.74
119.10	2.30	2.73
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60046.D
Acq On : 25 Nov 2025 8:23 pm
Operator : benk
Sample : je23793-5 Inst : GCMS5W
Misc : MS99437,V5W2302,40,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 27 05:43:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

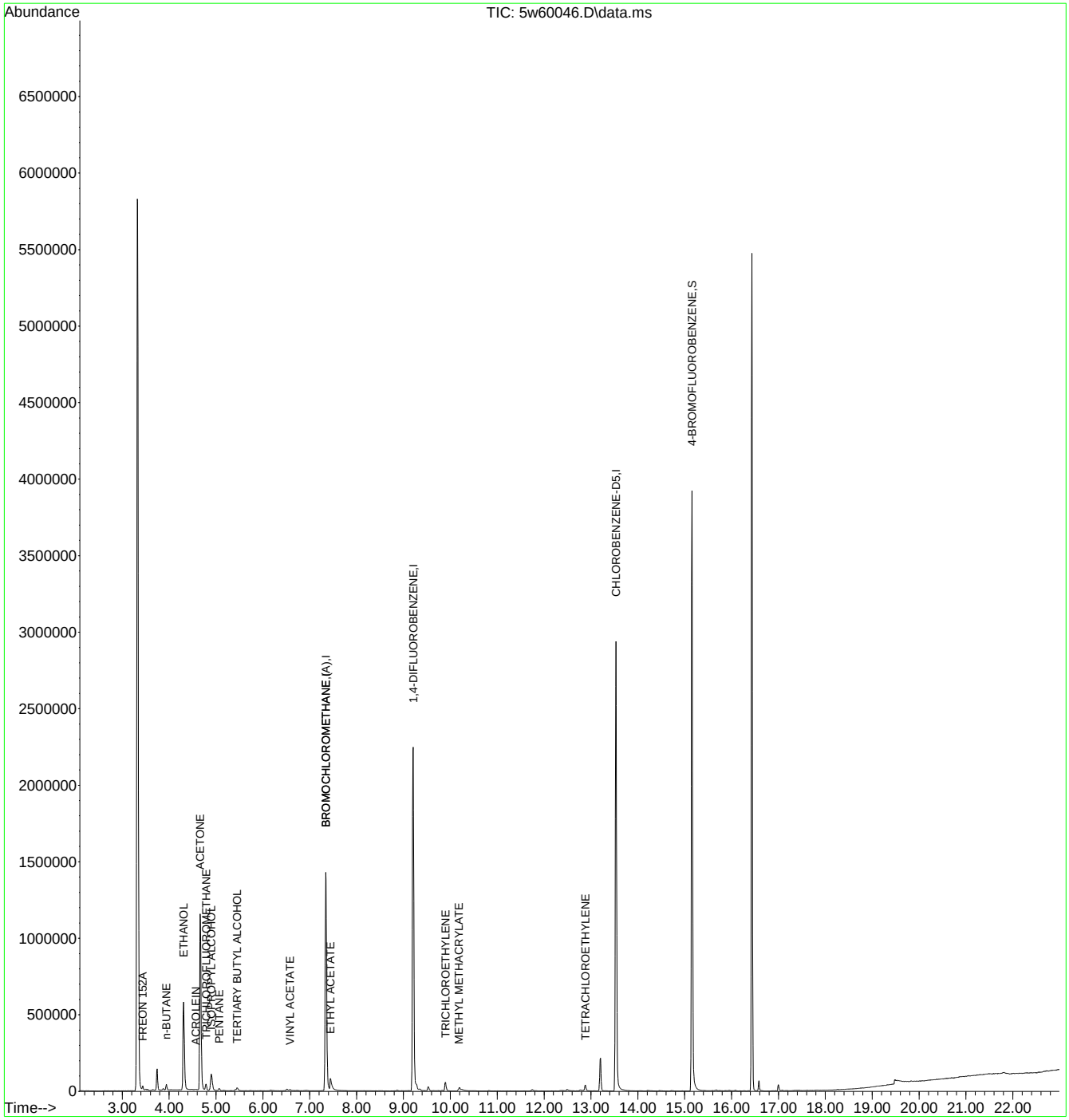
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.342	128	464009	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.208	114	2093839	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1020883	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.342	128	464601	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1331939	10.44	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.40%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	11600	0.3371	PPBV	100
13) n-BUTANE	3.940	43	32571	0.7365	PPBV	95
18) ACROLEIN	4.570	56	2420	0.1686	PPBV #	42
21) TRICHLOROFLUOROMETHANE	4.791	101	33635	0.2965	PPBV	98
22) ISOPROPYL ALCOHOL	4.901	45	188994	2.0771	PPBV	91
23) ACETONE	4.662	58	579725	31.8554	PPBV	87
24) PENTANE	5.066	42	7046	0.1491	PPBV	95
28) ETHANOL	4.307	45	751424	49.2930	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.451	59	28552	0.3069	PPBV	88
39) VINYL ACETATE	6.577	86	1675	0.2236	PPBV #	46
44) ETHYL ACETATE	7.440	61	21034	1.5359	PPBV	92
55) TRICHLOROETHYLENE	9.893	95	21786	0.3049	PPBV	98
63) METHYL METHACRYLATE	10.180	69	8788	0.1922	PPBV #	38
73) TETRACHLOROETHYLENE	12.878	164	10068	0.1446	PPBV	95

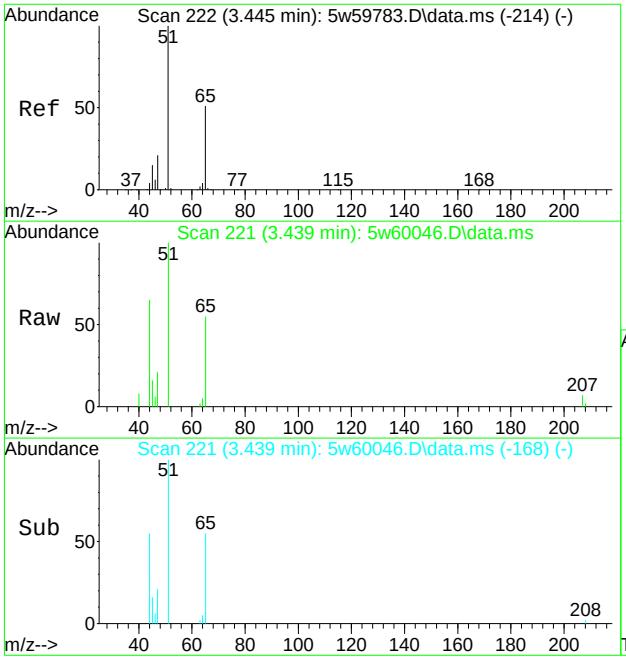
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60046.D
Acq On : 25 Nov 2025 8:23 pm
Operator : benk
Sample : je23793-5 Inst : GCMS5W
Misc : MS99437,V5W2302,40,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 27 05:43:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

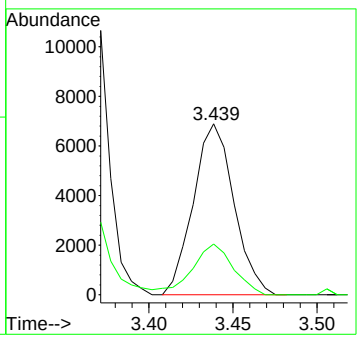


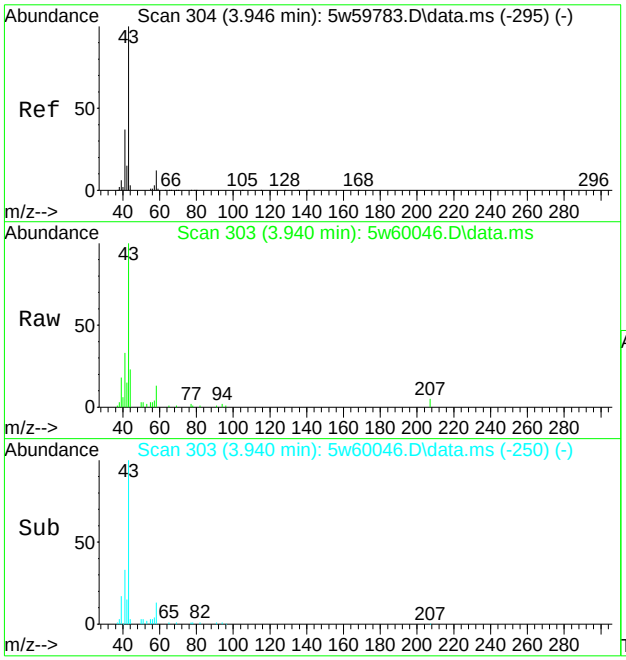


#3
FREON 152A
Concen: 0.3371 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 65 Resp: 11600

Ion	Ratio	Lower	Upper
65	100		
45	30.1	0.0	60.0

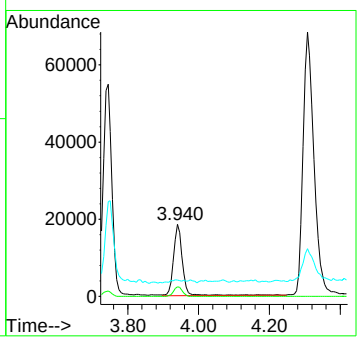


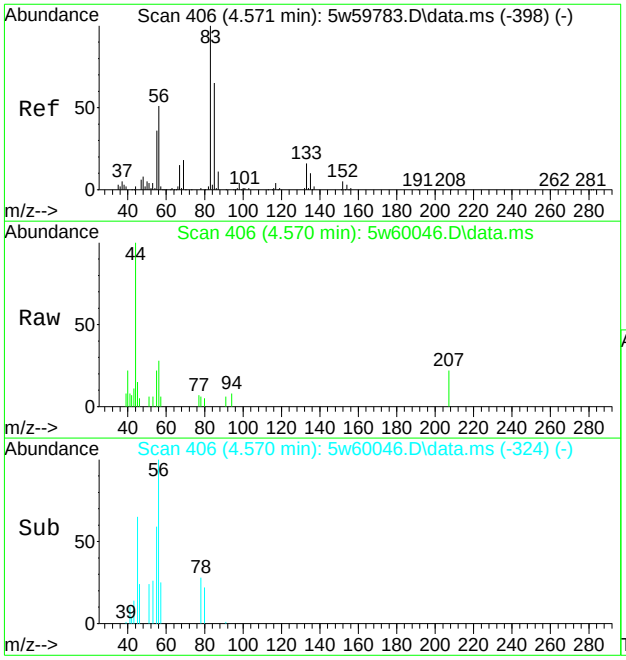


#13
n-BUTANE
Concen: 0.7365 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 43 Resp: 32571

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	9.6	0.0	34.9

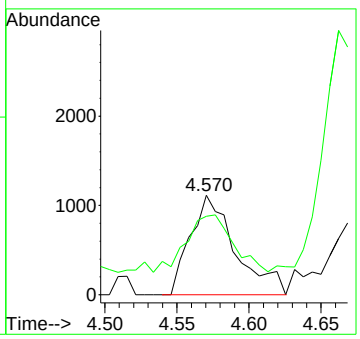


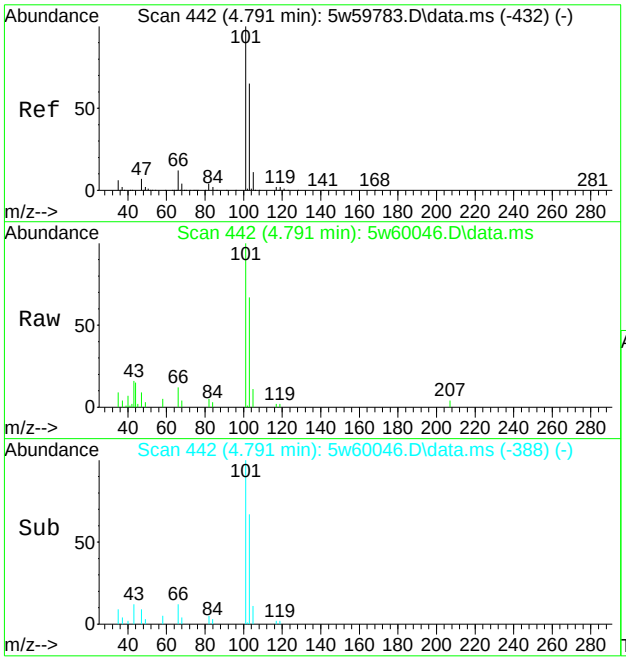


#18
ACROLEIN
Concen: 0.1686 PPBV
RT: 4.570 min Scan# 406
Delta R.T. -0.001 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 56 Resp: 2420

Ion	Ratio	Lower	Upper
56	100		
55	113.1	46.6	86.6#

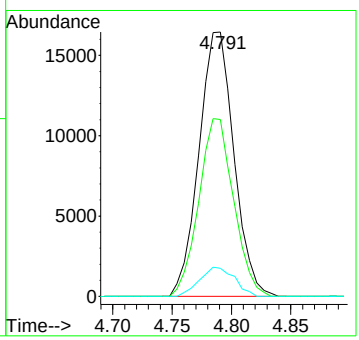


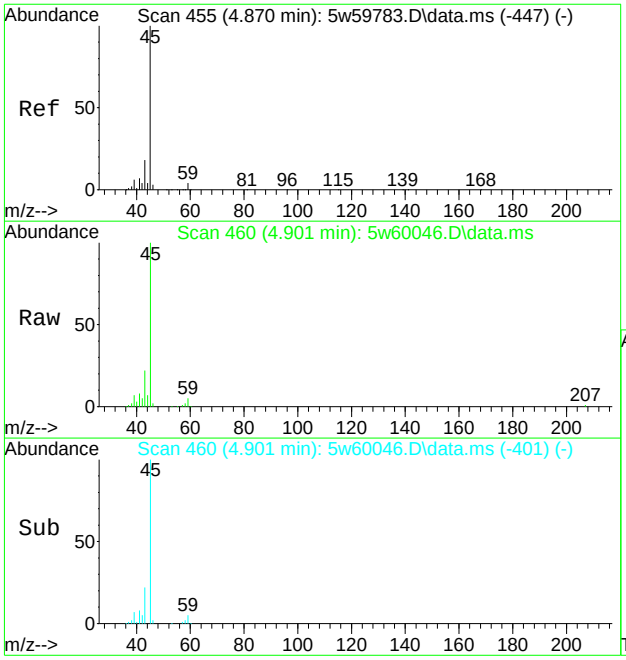


#21
TRICHLOROFLUOROMETHANE
Concen: 0.2965 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion:101 Resp: 33635

Ion	Ratio	Lower	Upper
101	100		
103	66.7	35.0	95.0
105	11.0	0.0	40.7

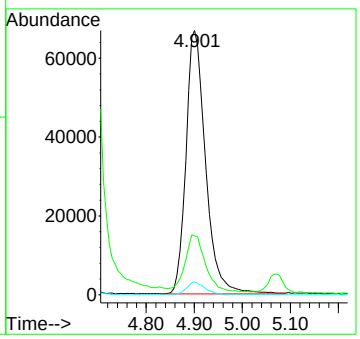


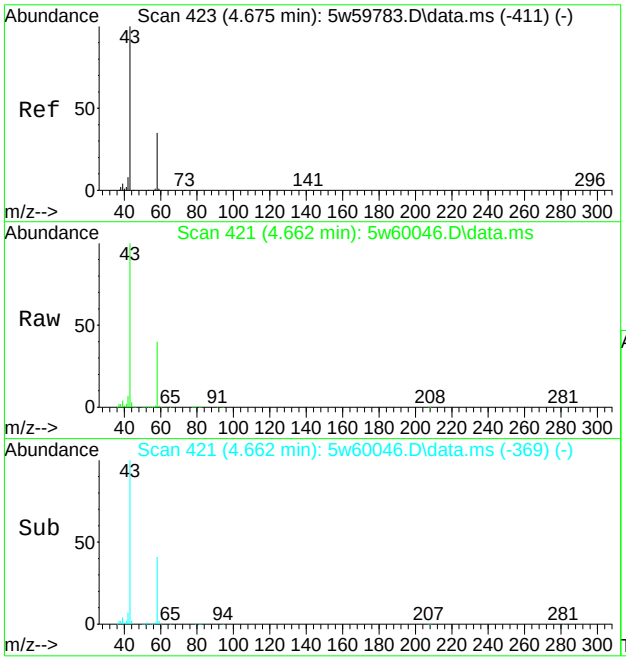


#22
ISOPROPYL ALCOHOL
Concen: 2.0771 PPBV
RT: 4.901 min Scan# 460
Delta R.T. 0.031 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 45 Resp: 188994

Ion	Ratio	Lower	Upper
45	100		
43	22.3	0.0	47.8
59	4.9	0.0	34.1

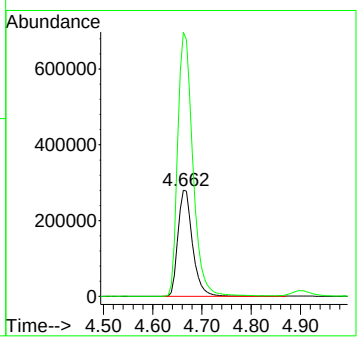


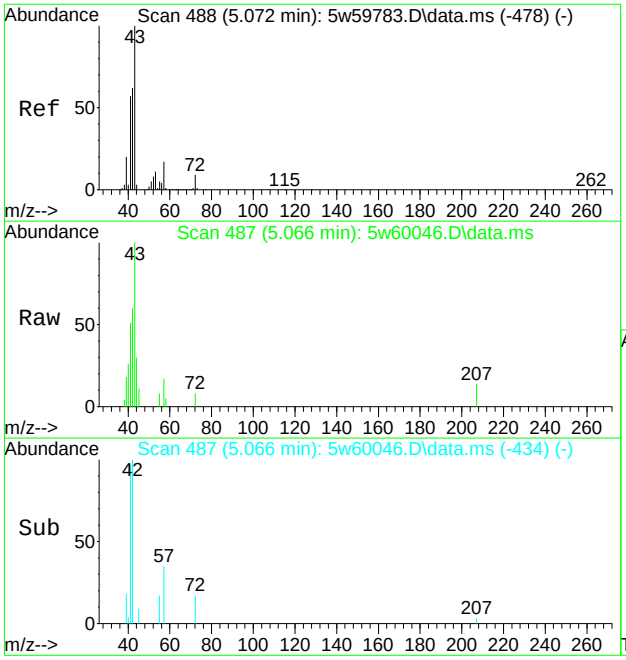


#23
ACETONE
Concen: 31.8554 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 58 Resp: 579725

Ion	Ratio	Lower	Upper
58	100		
43	257.0	252.3	312.3

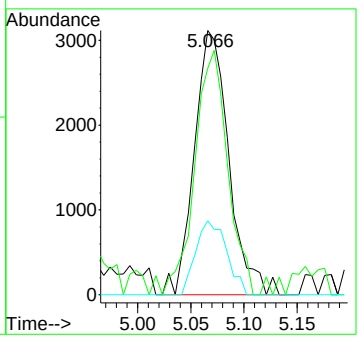


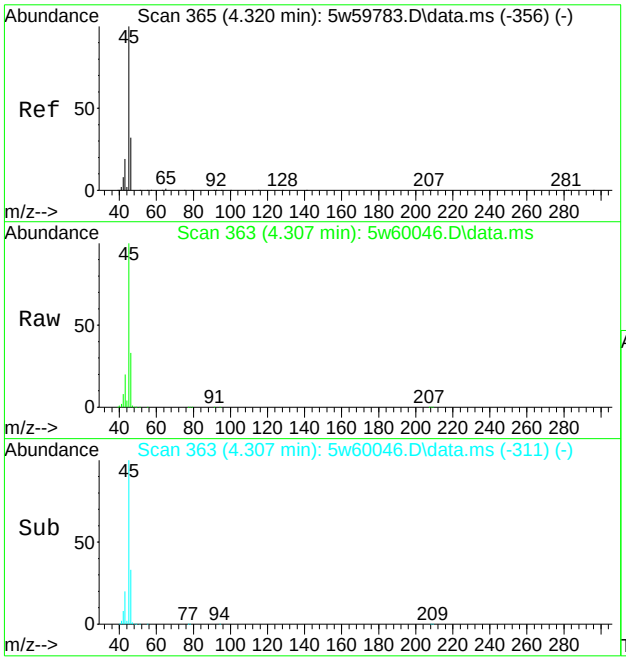


#24
PENTANE
Concen: 0.1491 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 42 Resp: 7046

Ion	Ratio	Lower	Upper
42	100		
41	87.9	62.3	122.3
57	25.0	0.0	57.7

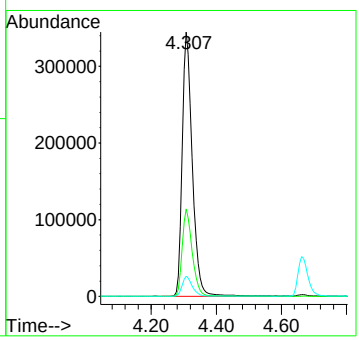


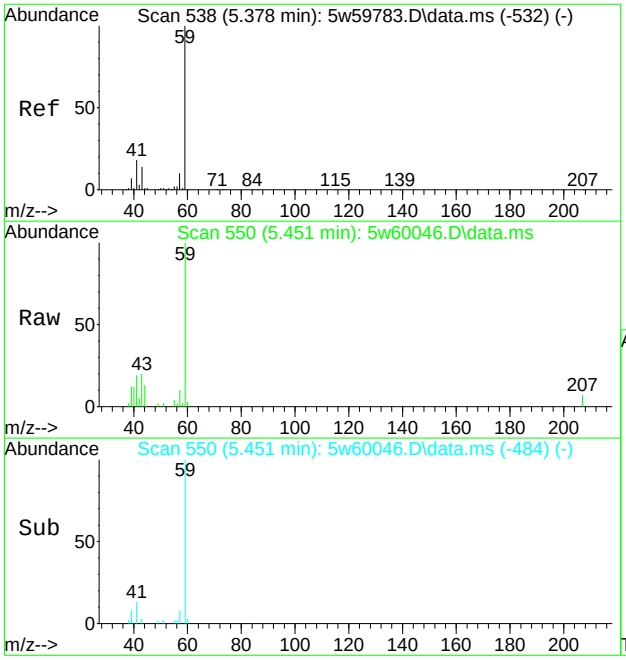


#28
ETHANOL
Concen: 49.2930 PPBV
RT: 4.307 min Scan# 363
Delta R.T. -0.013 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 45 Resp: 751424

Ion	Ratio	Lower	Upper
45	100		
46	33.0	2.0	62.0
42	7.9	0.0	38.5

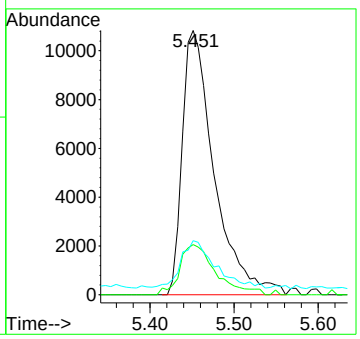


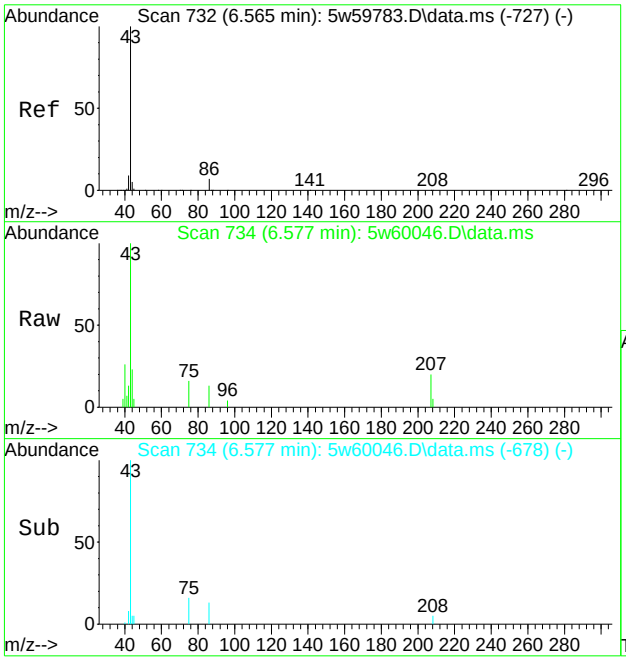


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.3069 PPBV
RT: 5.451 min Scan# 550
Delta R.T. 0.073 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 59 Resp: 28552

Ion	Ratio	Lower	Upper
59	100		
41	21.5	0.0	49.3
43	22.8	0.0	44.1

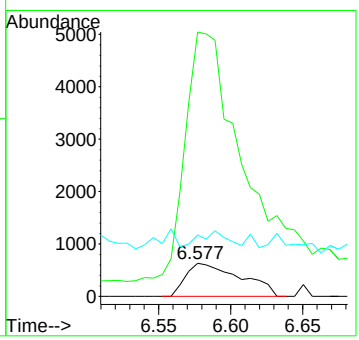


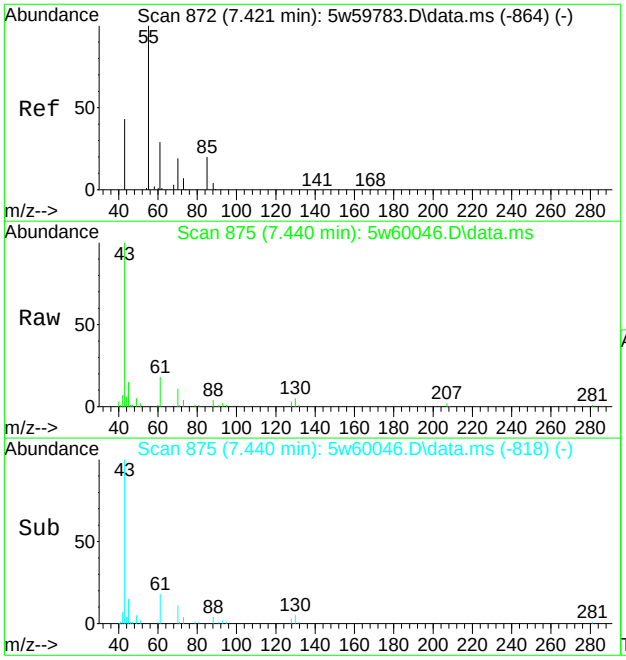


#39
VINYL ACETATE
Concen: 0.2236 PPBV
RT: 6.577 min Scan# 734
Delta R.T. 0.012 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 86 Resp: 1675

Ion	Ratio	Lower	Upper
86	100		
43	1105.1	1379.7	1439.7#
44	19.3	36.9	96.9#

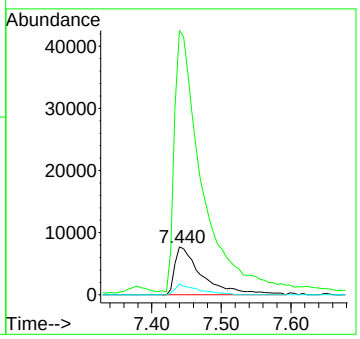


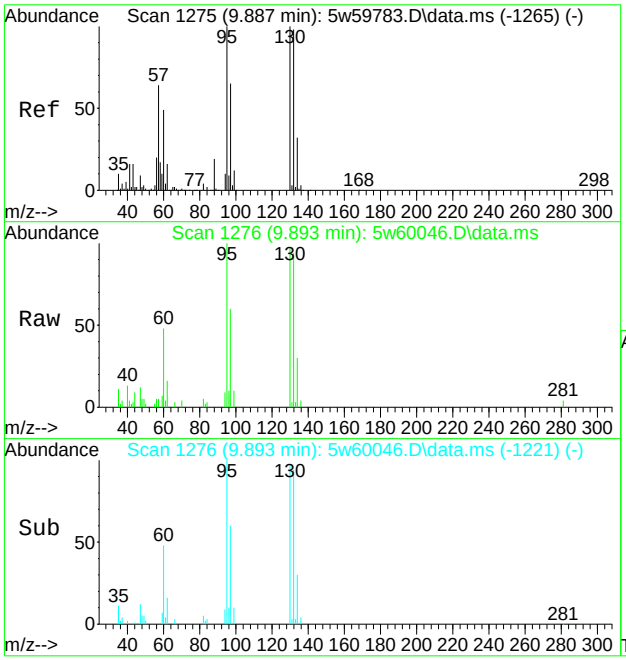


#44
ETHYL ACETATE
Concen: 1.5359 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.019 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 61 Resp: 21034

Ion	Ratio	Lower	Upper
61	100		
43	569.2	560.5	620.5
88	19.1	4.5	64.5

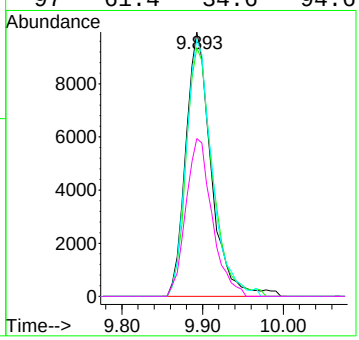


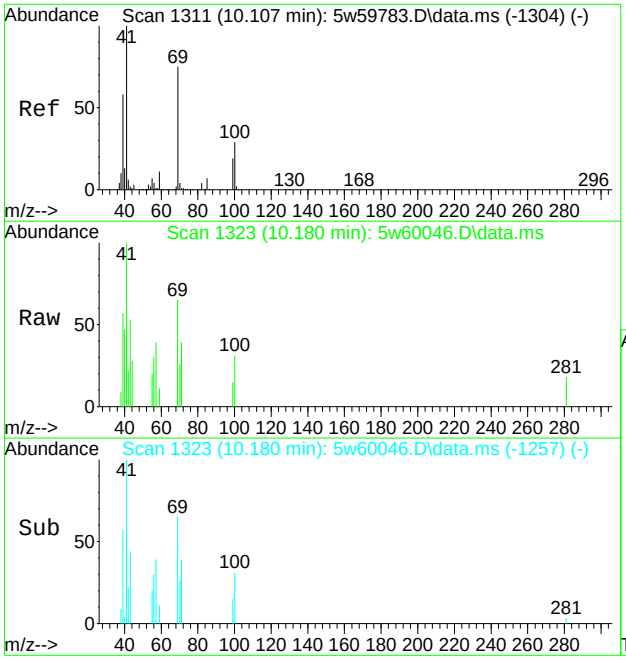


#55
TRICHLOROETHYLENE
Concen: 0.3049 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 95 Resp: 21786

Ion	Ratio	Lower	Upper
95	100		
132	97.4	69.0	129.0
130	99.1	70.6	130.6
97	61.4	34.6	94.6

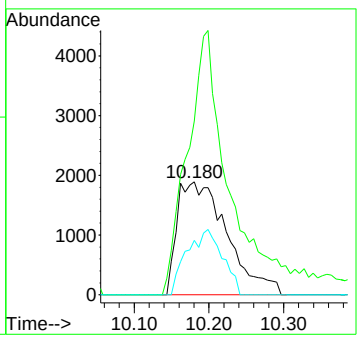


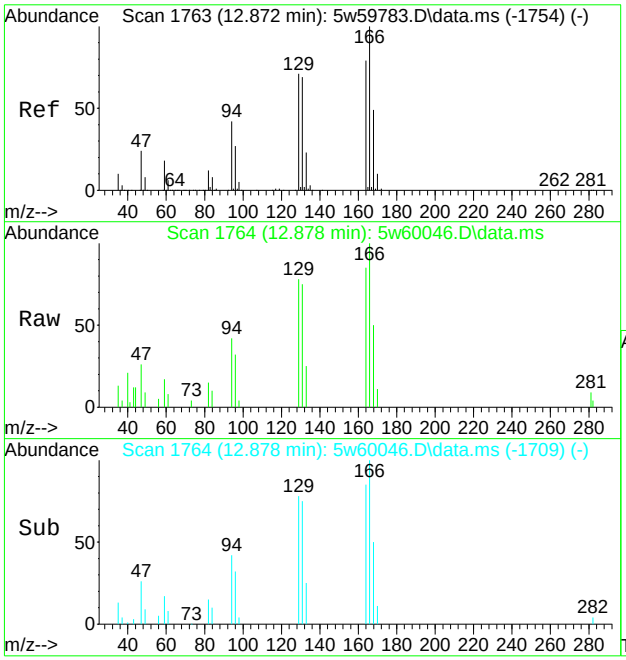


#63
METHYL METHACRYLATE
Concen: 0.1922 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. 0.073 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion: 69 Resp: 8788

Ion	Ratio	Lower	Upper
69	100		
41	213.3	95.3	155.3#
100	41.2	6.3	66.3

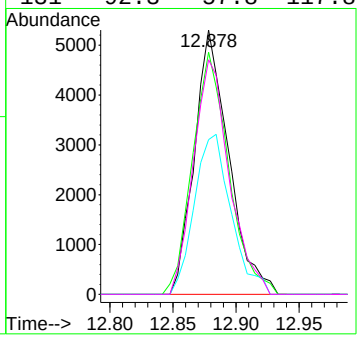




#73
TETRACHLOROETHYLENE
Concen: 0.1446 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60046.D
Acq: 25 Nov 2025 8:23 pm

Tgt Ion:164 Resp: 10068

Ion	Ratio	Lower	Upper
164	100		
129	96.5	59.7	119.7
168	64.5	32.2	92.2
131	92.3	57.8	117.8



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/28/25 18:46

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 5w60020.D
Acq On : 25 Nov 2025 1:14 am
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 26 05:15:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

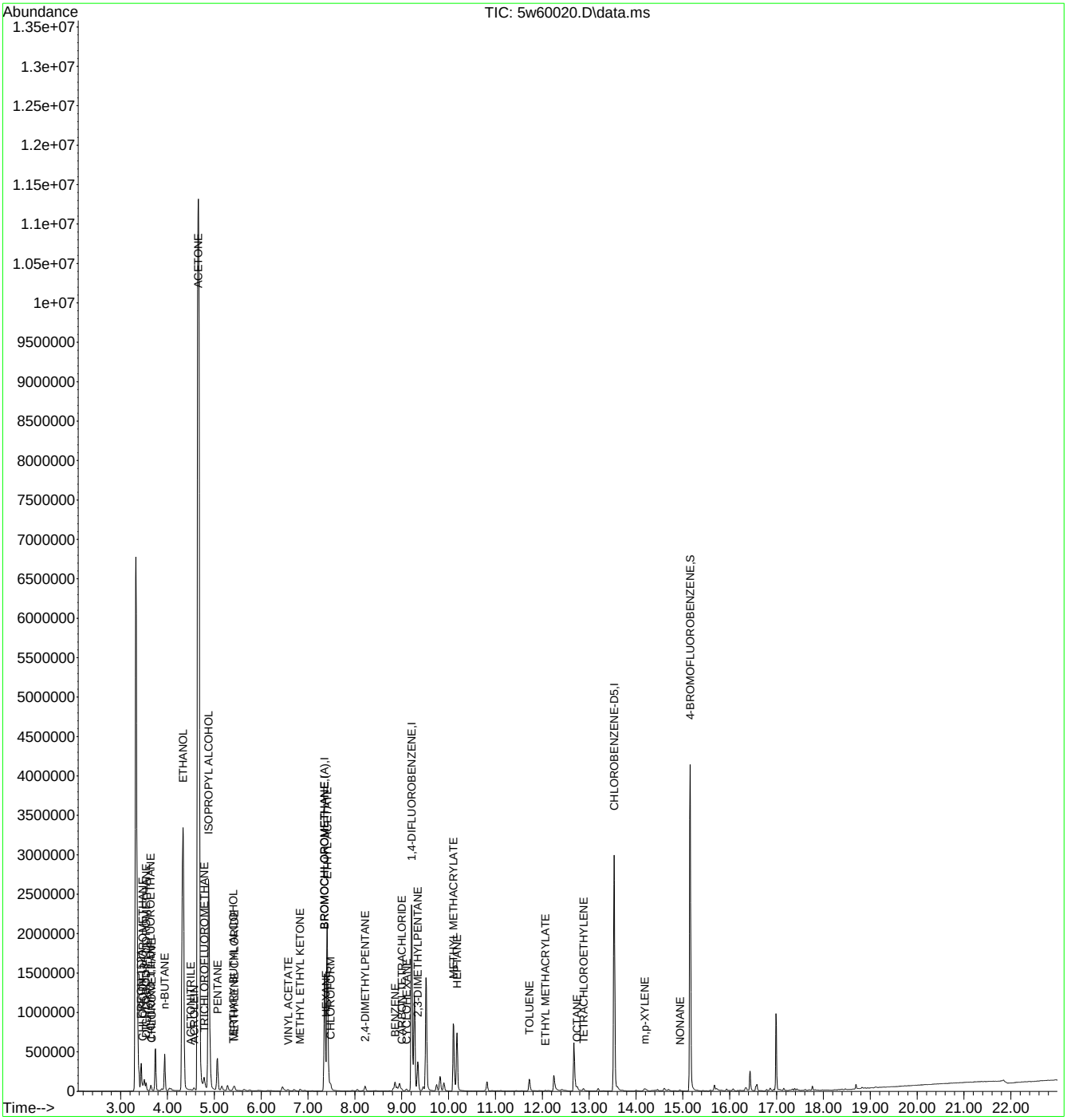
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	464538	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2148688	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1036446	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	464538	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1403154	10.84	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.40%				
Target Compounds							Qvalue
3) FREON 152A	3.439	65	151820	4.4067	PPBV		97
4) CHLORODIFLUOROMETHANE	3.469	67	10451	0.7252	PPBV		64
6) DICHLORODIFLUOROMETHANE	3.543	85	86835	0.6532	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	32520	0.3020	PPBV	#	31
10) CHLOROMETHANE	3.659	52	10965	0.7510	PPBV		99
13) n-BUTANE	3.940	43	376693	8.5082	PPBV		97
17) ACETONITRILE	4.497	41	4492	0.1776	PPBV		83
18) ACROLEIN	4.570	56	31598	2.1985	PPBV		97
21) TRICHLOROFLUOROMETHANE	4.785	101	105388	0.9281	PPBV		99
22) ISOPROPYL ALCOHOL	4.876	45	4218284	46.3073	PPBV		97
23) ACETONE	4.656	58	7784866	427.2853	PPBV		92
24) PENTANE	5.066	42	167672	3.5429	PPBV		99
28) ETHANOL	4.332	45	5712197	374.2899	PPBV		99
31) METHYLENE CHLORIDE	5.427	84	19398	0.4162	PPBV		92
35) TERTIARY BUTYL ALCOHOL	5.402	59	43877	0.4710	PPBV	#	33
38) HEXANE	7.385	57	23178	0.3125	PPBV	#	33
39) VINYL ACETATE	6.577	86	1971	0.2628	PPBV	#	87
41) METHYL ETHYL KETONE	6.828	72	12269	0.6838	PPBV	#	84
44) ETHYL ACETATE	7.409	61	449964	32.8179	PPBV		97
46) CHLOROFORM	7.482	83	50026	0.4843	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.217	57	32604	0.3884	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	14902	0.1274	PPBV		99
52) BENZENE	8.859	78	108358	0.7527	PPBV		98
53) CYCLOHEXANE	9.104	84	10413	0.1811	PPBV		93
54) 2,3-DIMETHYLPENTANE	9.342	71	64971	2.2357	PPBV		94
62) HEPTANE	10.180	43	305323	3.6862	PPBV		95
63) METHYL METHACRYLATE	10.101	69	391110	8.3365	PPBV		90
66) TOLUENE	11.722	92	82015	0.7622	PPBV		97
72) ETHYL METHACRYLATE	12.065	69	7426	0.1037	PPBV	#	73
73) TETRACHLOROETHYLENE	12.878	164	7666	0.1084	PPBV		98
76) OCTANE	12.738	43	64383m	0.6540	PPBV		
80) m,p-XYLENE	14.188	106	14395	0.1839	PPBV		86
83) NONANE	14.940	43	12141	0.1219	PPBV	#	78

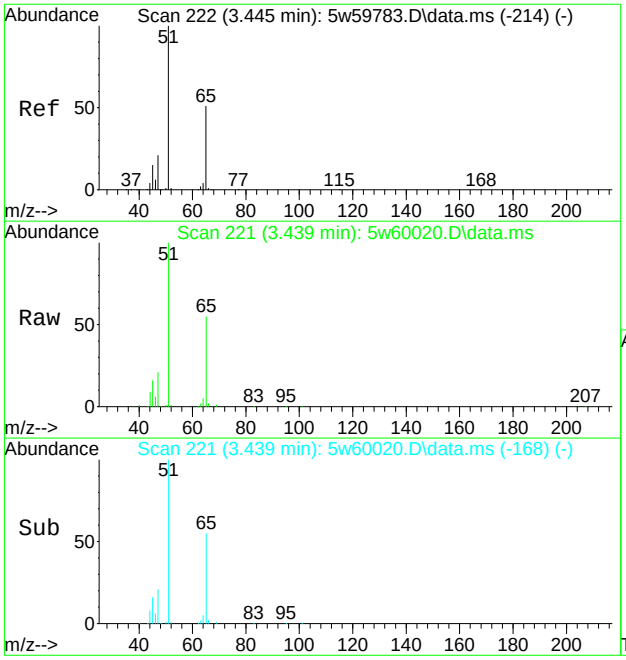
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60020.D
Acq On : 25 Nov 2025 1:14 am
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 26 05:15:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

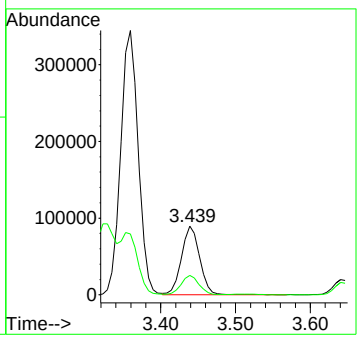


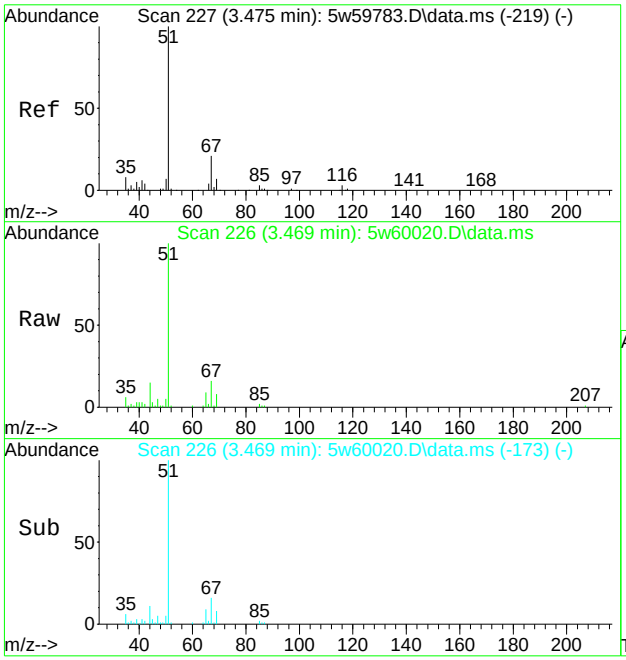


#3
FREON 152A
Concen: 4.4067 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 65 Resp: 151820

Ion	Ratio	Lower	Upper
65	100		
45	28.1	0.0	60.0

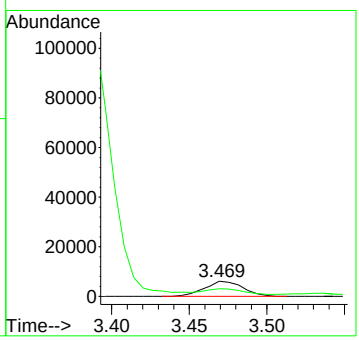


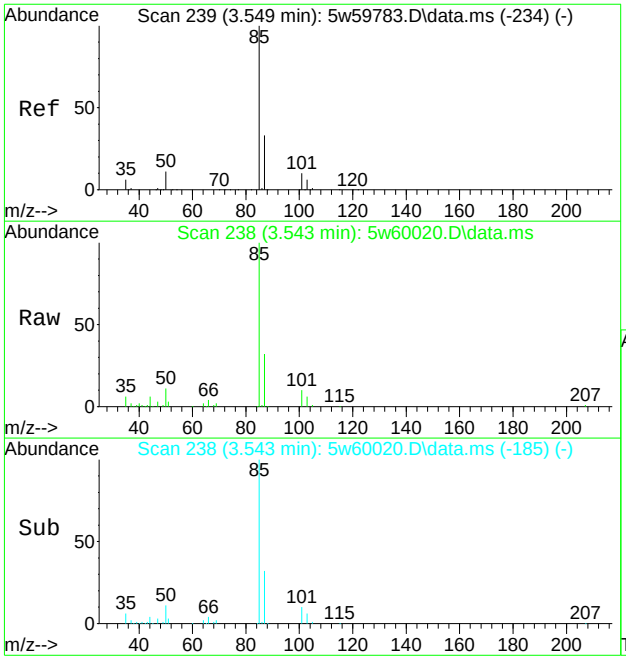


#4
CHLORODIFLUOROMETHANE
Concen: 0.7252 PPBV
RT: 3.469 min Scan# 226
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 67 Resp: 10451

Ion	Ratio	Lower	Upper
67	100		
69	50.8	1.0	61.0

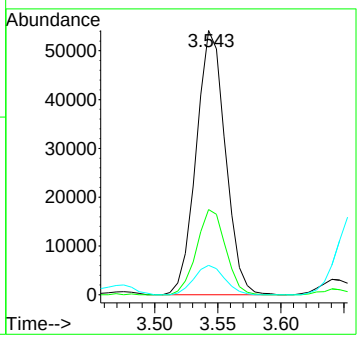


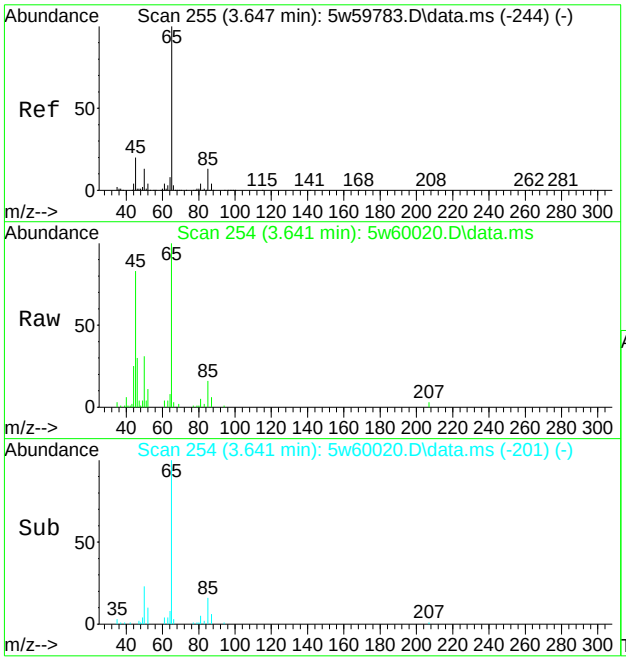


#6
DICHLORODIFLUOROMETHANE
Concen: 0.6532 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 85 Resp: 86835

Ion	Ratio	Lower	Upper
85	100		
87	32.0	2.5	62.5
50	11.6	0.0	41.7

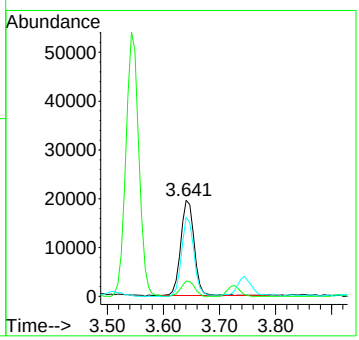


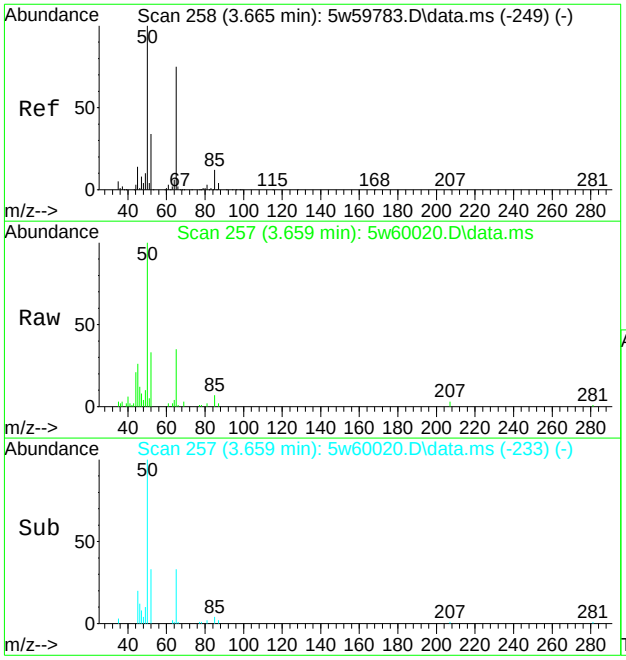


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.3020 PPBV
RT: 3.641 min Scan# 254
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 65 Resp: 32520

Ion	Ratio	Lower	Upper
65	100		
85	16.5	11.5	21.3
45	77.6	14.0	26.0#

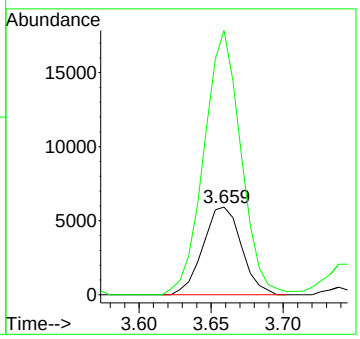


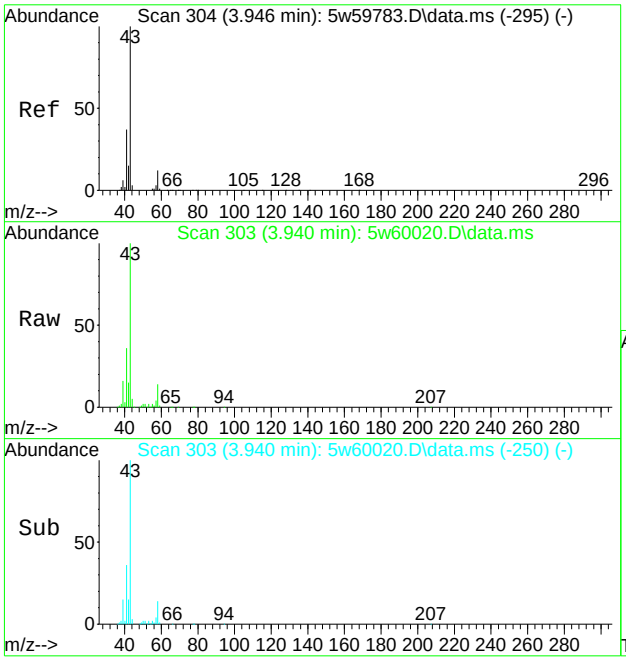


#10
CHLOROMETHANE
Concen: 0.7510 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 52 Resp: 10965

Ion	Ratio	Lower	Upper
52	100		
50	299.9	267.9	327.9

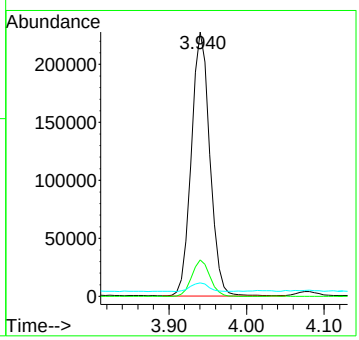


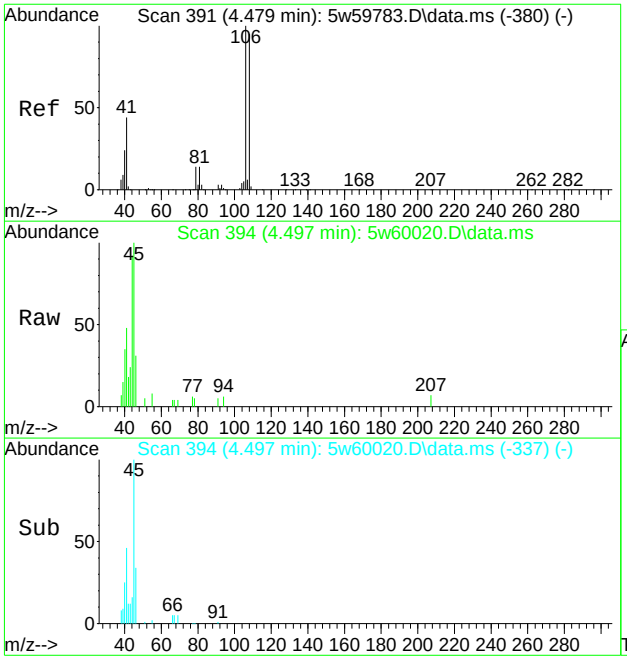


#13
n-BUTANE
Concen: 8.5082 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 43 Resp: 376693

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	3.9	0.0	34.9

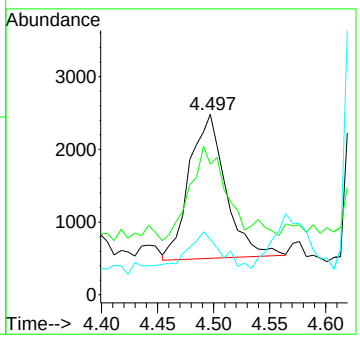


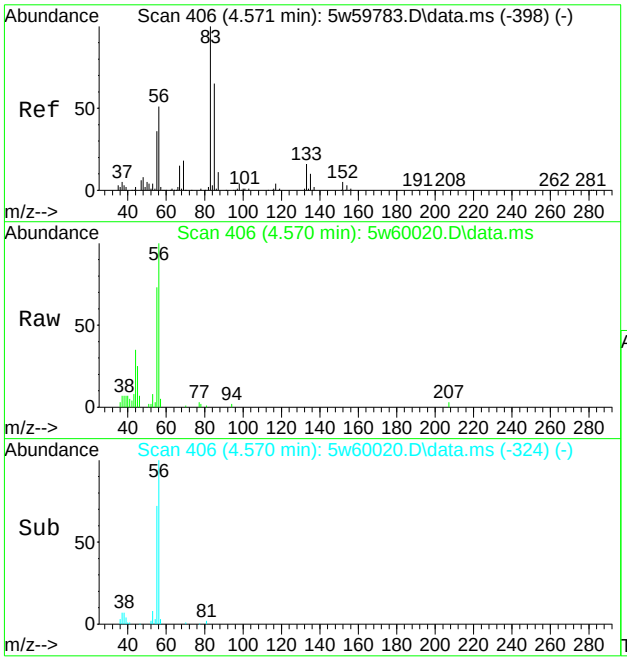


#17
ACETONITRILE
Concen: 0.1776 PPBV
RT: 4.497 min Scan# 394
Delta R.T. 0.018 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 41 Resp: 4492

Ion	Ratio	Lower	Upper
41	100		
40	70.0	37.9	70.5
39	20.8	13.4	24.8

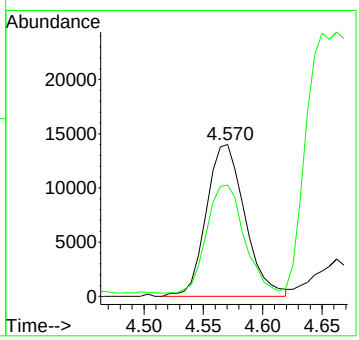


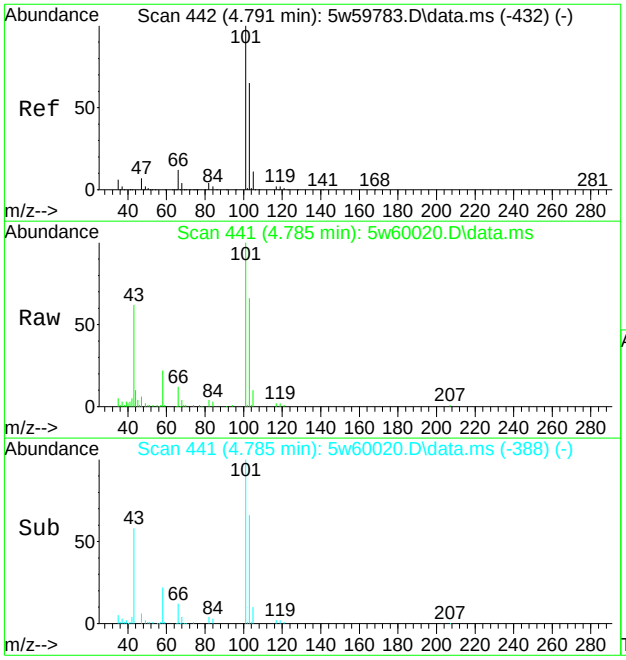


#18
ACROLEIN
Concen: 2.1985 PPBV
RT: 4.570 min Scan# 406
Delta R.T. -0.001 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 56 Resp: 31598

Ion	Ratio	Lower	Upper
56	100		
55	69.2	46.6	86.6

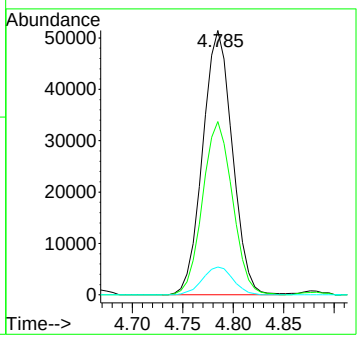


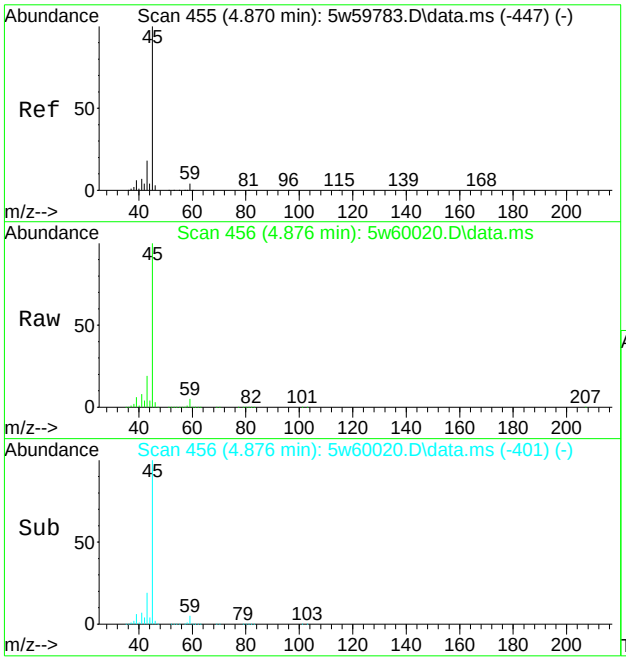


#21
TRICHLOROFLUOROMETHANE
Concen: 0.9281 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion:101 Resp: 105388

Ion	Ratio	Lower	Upper
101	100		
103	65.9	35.0	95.0
105	10.8	0.0	40.7

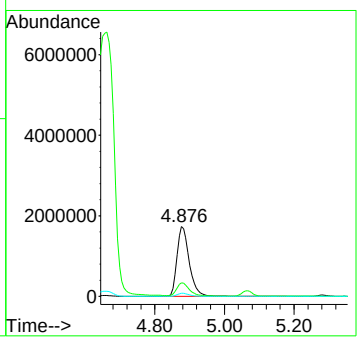


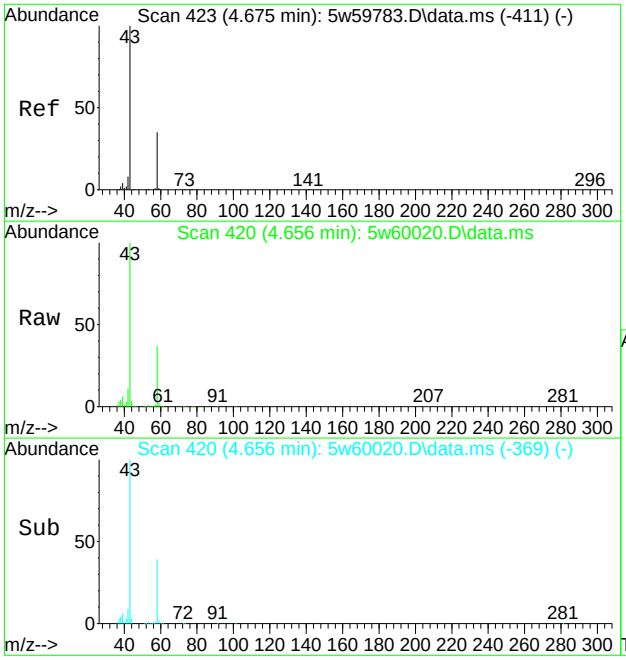


#22
ISOPROPYL ALCOHOL
Concen: 46.3073 PPBV
RT: 4.876 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 45 Resp: 4218284

Ion	Ratio	Lower	Upper
45	100		
43	19.3	0.0	47.8
59	4.6	0.0	34.1

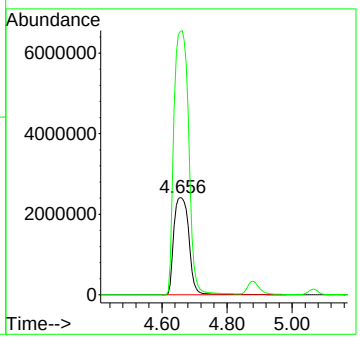


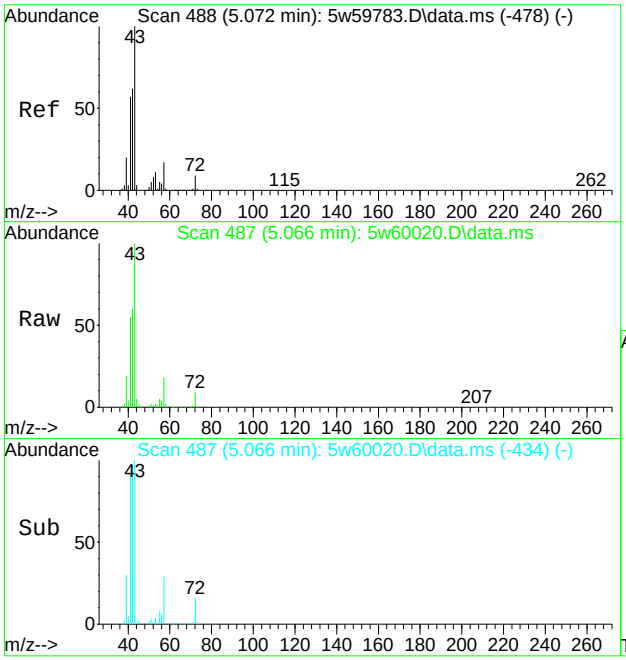


#23
ACETONE
Concen: 427.2853 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 58 Resp: 7784866

Ion	Ratio	Lower	Upper
58	100		
43	267.2	252.3	312.3

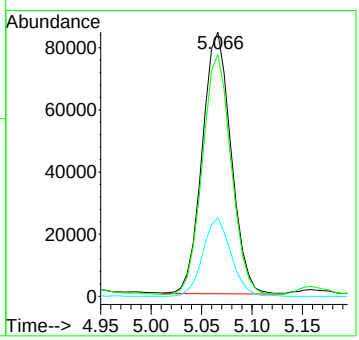


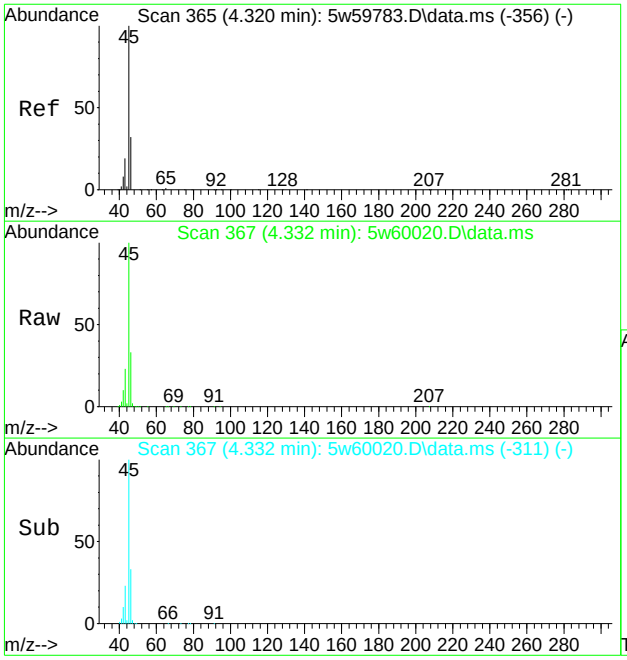


#24
PENTANE
Concen: 3.5429 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 42 Resp: 167672

Ion	Ratio	Lower	Upper
42	100		
41	92.0	62.3	122.3
57	29.4	0.0	57.7

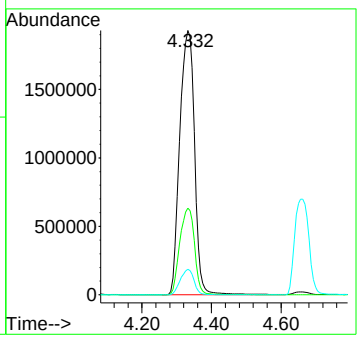


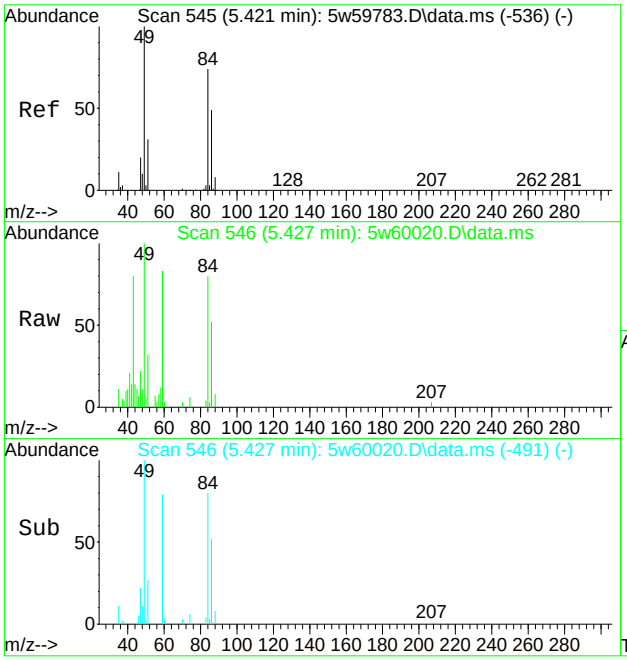


#28
ETHANOL
Concen: 374.2899 PPBV
RT: 4.332 min Scan# 367
Delta R.T. 0.012 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 45 Resp: 5712197

Ion	Ratio	Lower	Upper
45	100		
46	32.8	2.0	62.0
42	8.9	0.0	38.5

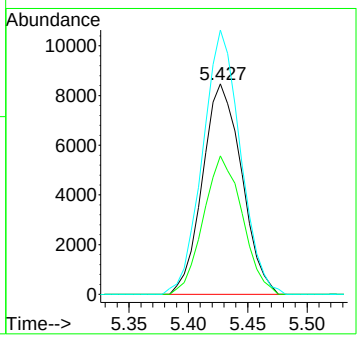


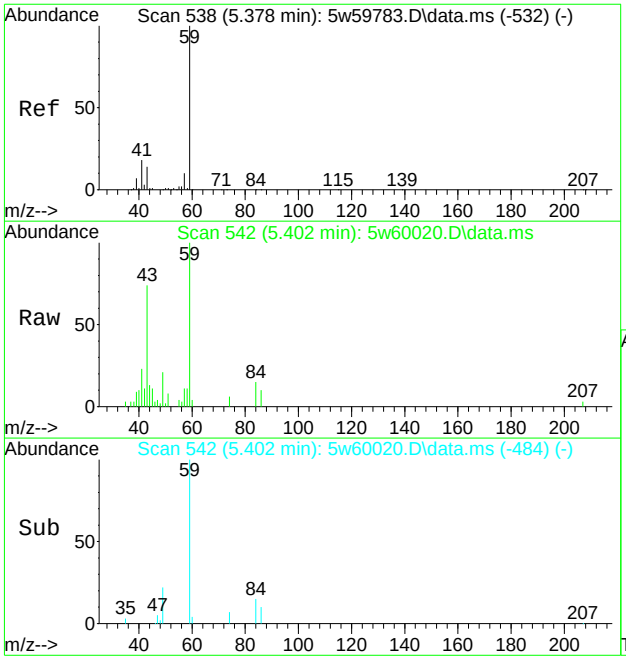


#31
METHYLENE CHLORIDE
Concen: 0.4162 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 84 Resp: 19398

Ion	Ratio	Lower	Upper
84	100		
86	65.1	35.2	95.2
49	121.1	105.3	165.3

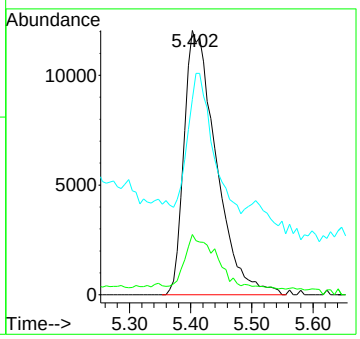


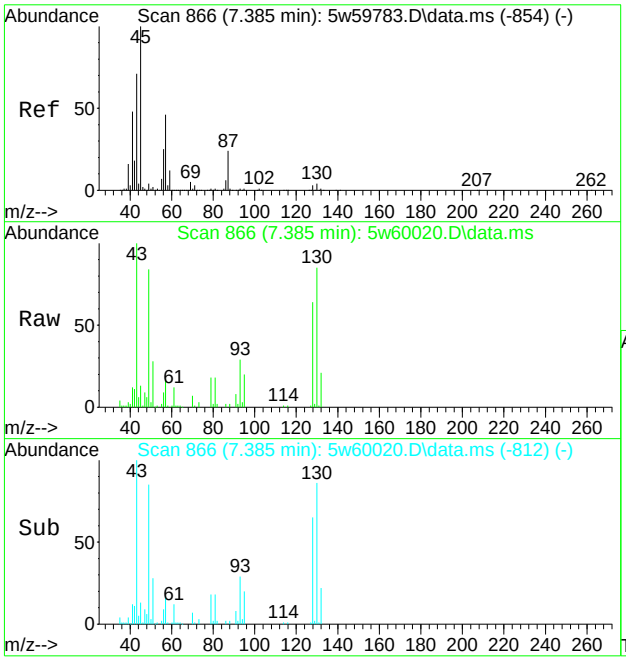


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.4710 PPBV
RT: 5.402 min Scan# 542
Delta R.T. 0.024 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 59 Resp: 43877

Ion	Ratio	Lower	Upper
59	100		
41	29.5	0.0	49.3
43	66.0	0.0	44.1#

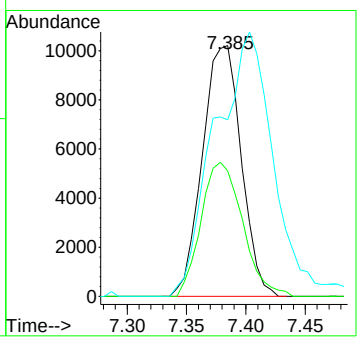


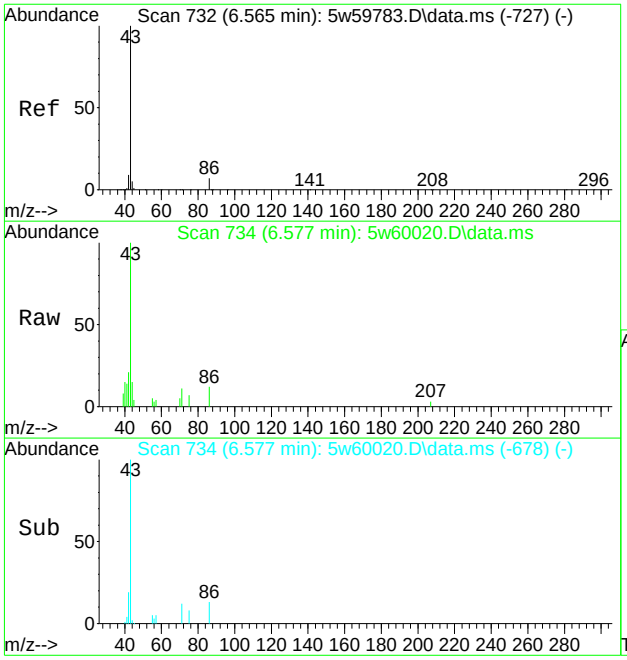


#38
HEXANE
Concen: 0.3125 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 57 Resp: 23178

Ion	Ratio	Lower	Upper
57	100		
56	57.2	25.9	85.9
41	0.0	74.7	134.7#

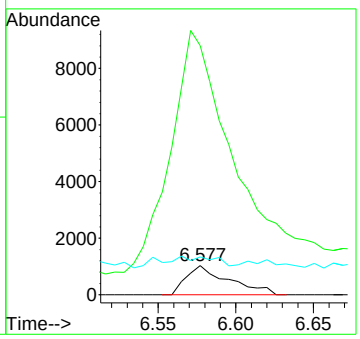


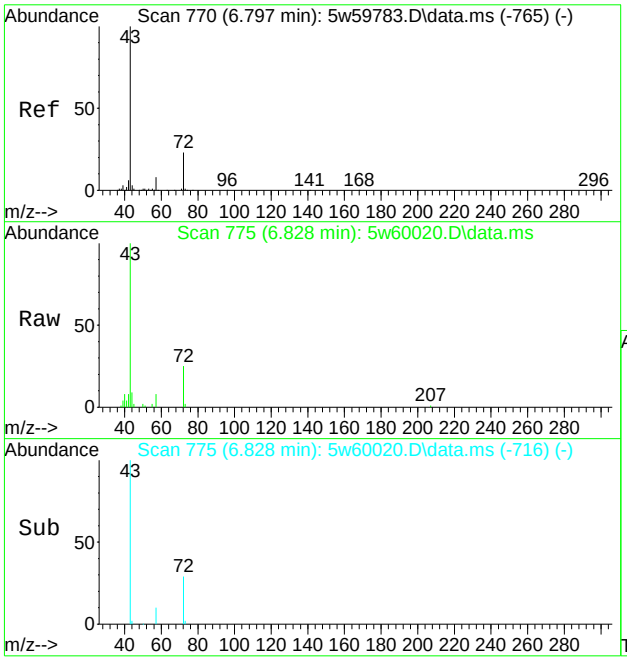


#39
VINYL ACETATE
Concen: 0.2628 PPBV
RT: 6.577 min Scan# 734
Delta R.T. 0.012 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 86 Resp: 1971

Ion	Ratio	Lower	Upper
86	100		
43	1337.4	1379.7	1439.7#
44	50.5	36.9	96.9

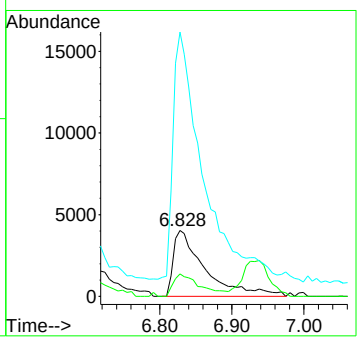


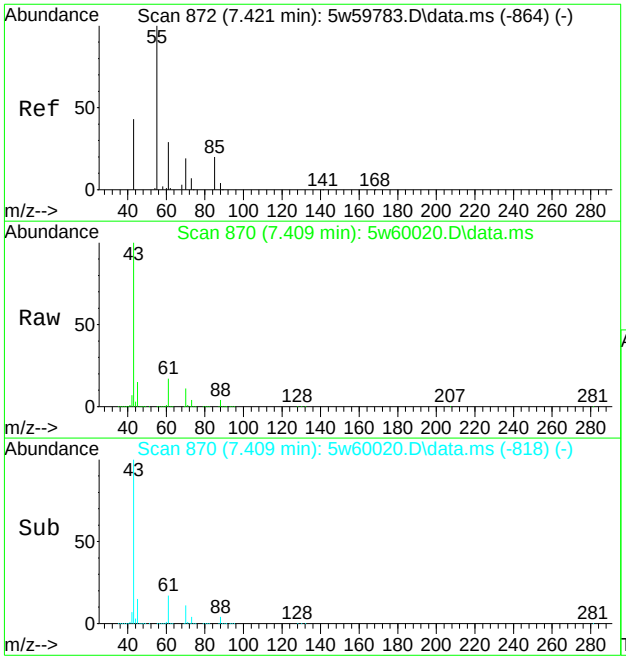


#41
METHYL ETHYL KETONE
Concen: 0.6838 PPBV
RT: 6.828 min Scan# 775
Delta R.T. 0.031 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 72 Resp: 12269

Ion	Ratio	Lower	Upper
72	100		
57	34.0	4.8	64.8
43	401.7	415.9	475.9#

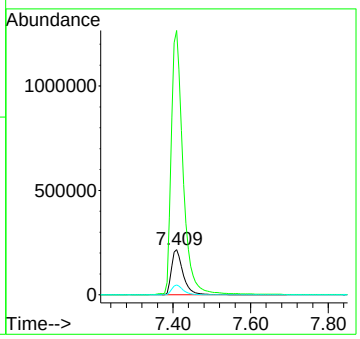


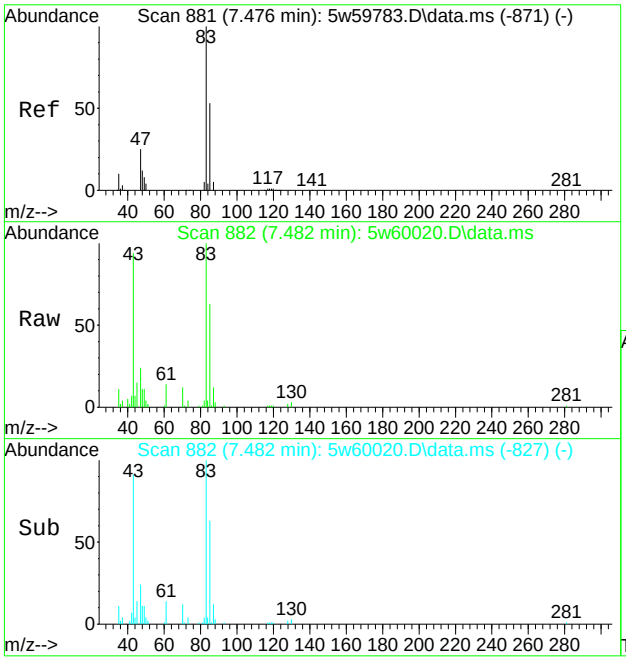


#44
ETHYL ACETATE
Concen: 32.8179 PPBV
RT: 7.409 min Scan# 870
Delta R.T. -0.012 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 61 Resp: 449964

Ion	Ratio	Lower	Upper
61	100		
43	596.0	560.5	620.5
88	21.5	4.5	64.5

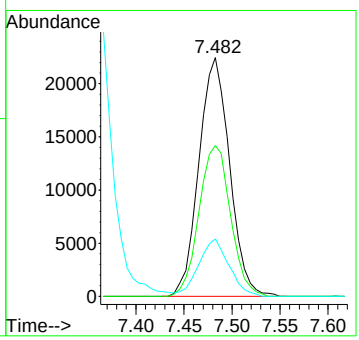


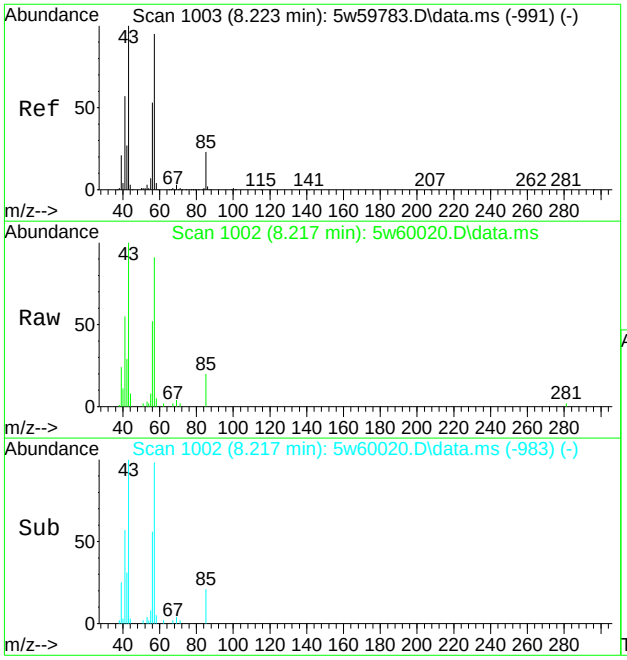


#46
CHLOROFORM
Concen: 0.4843 PPBV
RT: 7.482 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 83 Resp: 50026

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.6	95.6
47	23.7	0.0	55.2

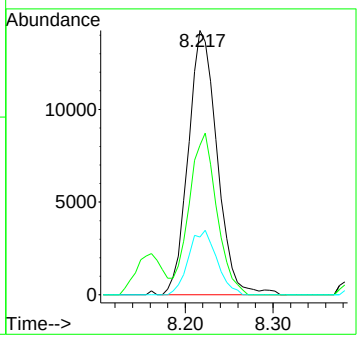


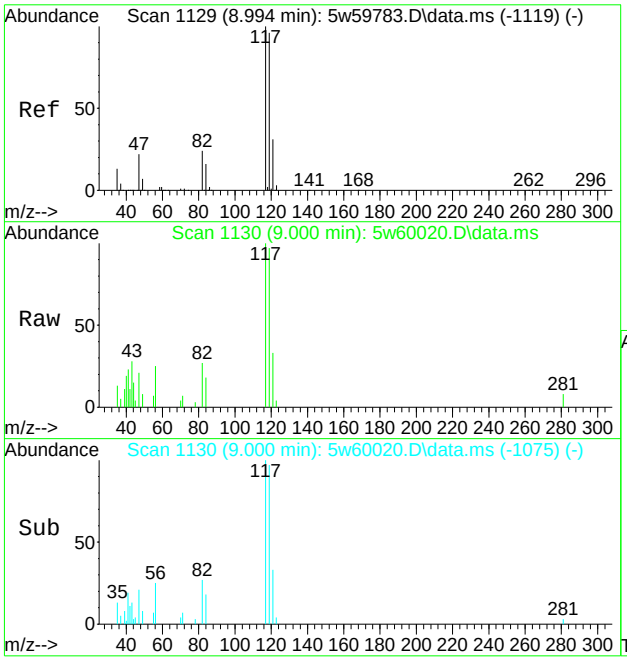


#47
2,4-DIMETHYLPENTANE
Concen: 0.3884 PPBV
RT: 8.217 min Scan# 1002
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 57 Resp: 32604

Ion	Ratio	Lower	Upper
57	100		
56	59.3	26.5	86.5
85	23.9	0.0	53.8

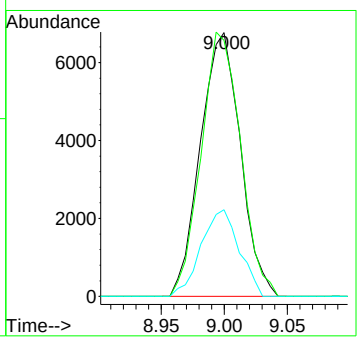


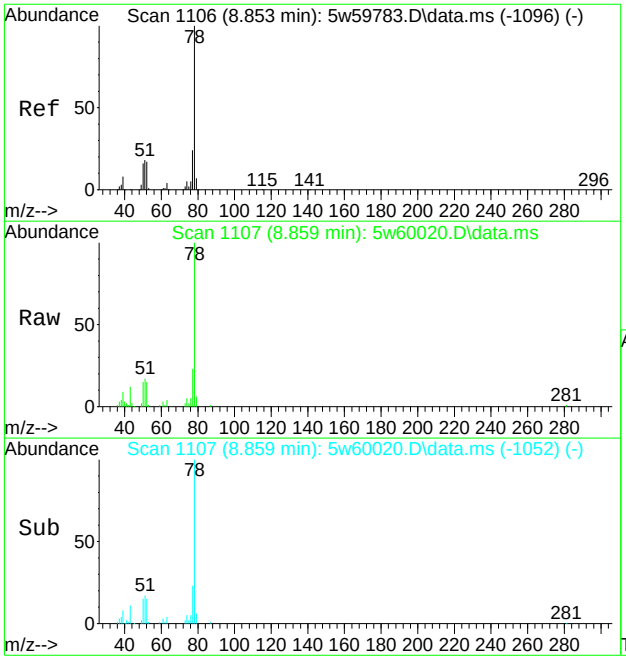


#49
CARBON TETRACHLORIDE
Concen: 0.1274 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion:117 Resp: 14902

Ion	Ratio	Lower	Upper
117	100		
119	98.6	66.9	126.9
121	31.3	1.3	61.3

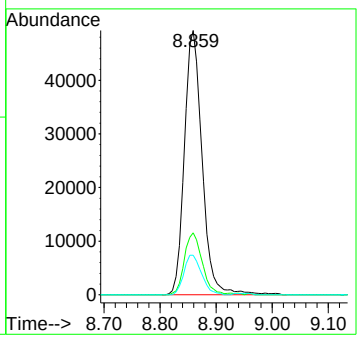


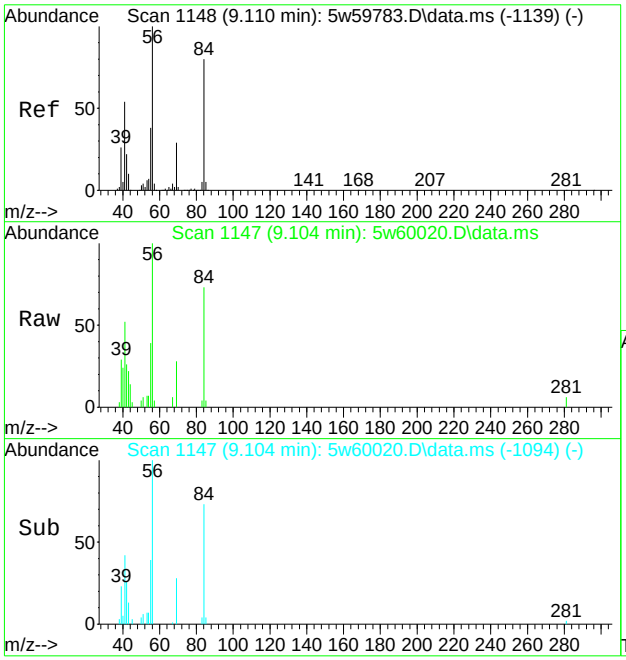


#52
BENZENE
Concen: 0.7527 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 78 Resp: 108358

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	14.9	0.0	46.9

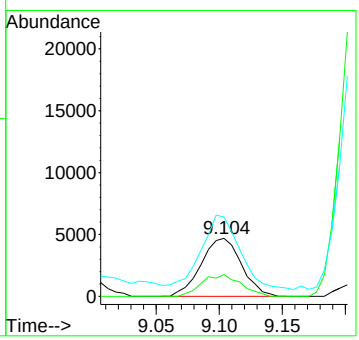


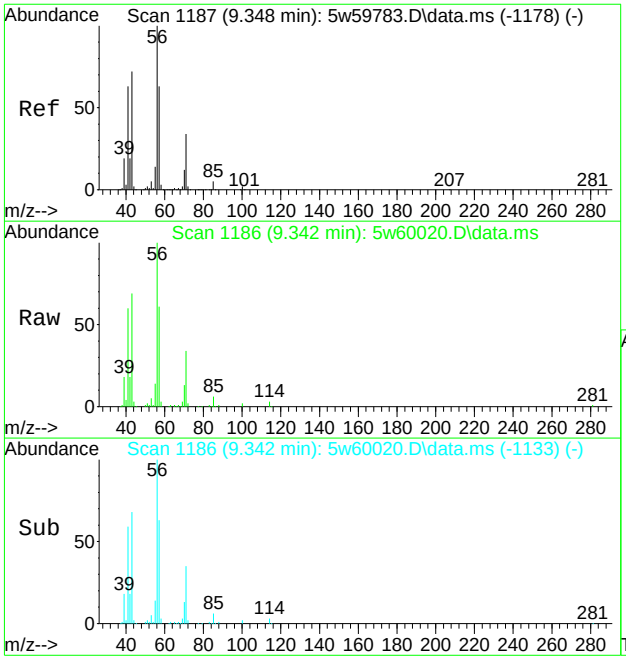


#53
CYCLOHEXANE
Concen: 0.1811 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 84 Resp: 10413

Ion	Ratio	Lower	Upper
84	100		
69	36.5	6.9	66.9
56	138.4	98.2	158.2

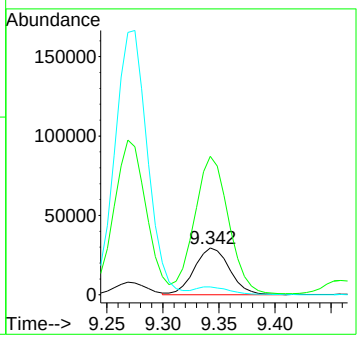


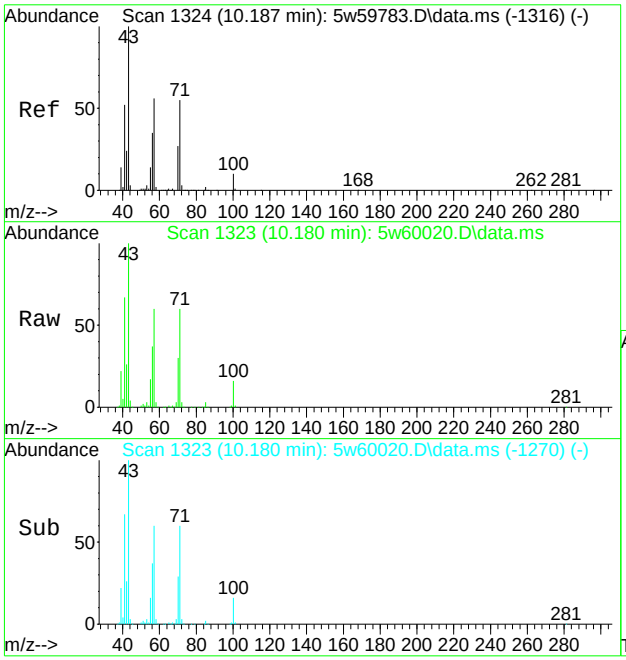


#54
2,3-DIMETHYLPENTANE
Concen: 2.2357 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 71 Resp: 64971

Ion	Ratio	Lower	Upper
71	100		
56	283.6	264.6	324.6
85	16.4	0.0	45.3

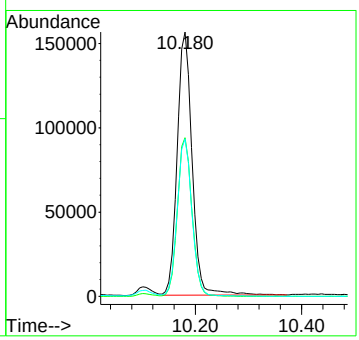


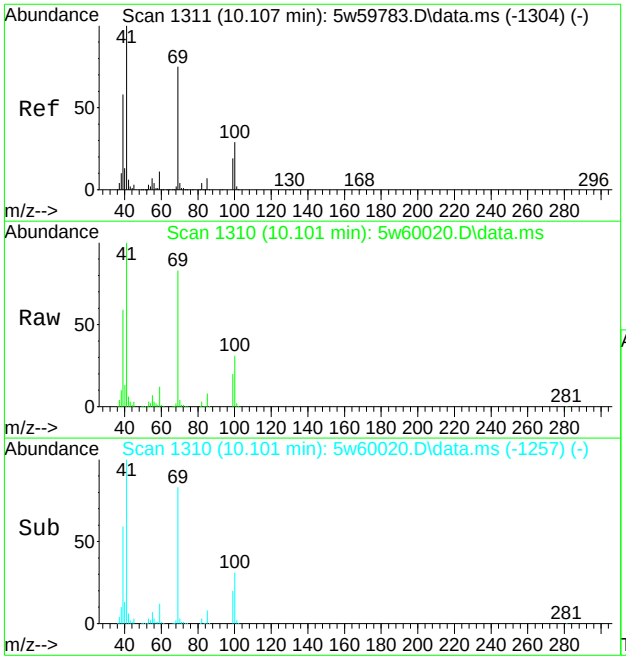


#62
HEPTANE
Concen: 3.6862 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 43 Resp: 305323

Ion	Ratio	Lower	Upper
43	100		
71	58.8	24.5	84.5
57	59.3	26.2	86.2

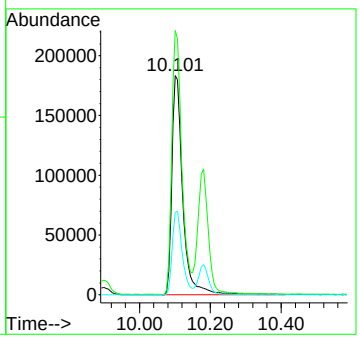


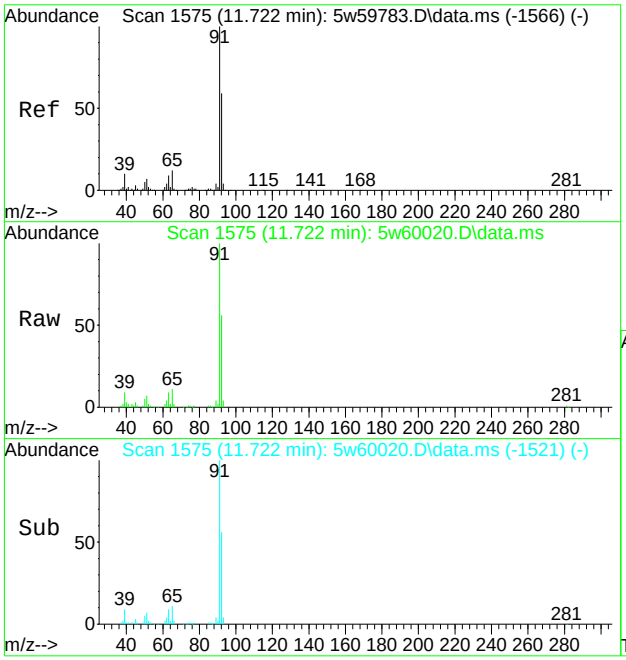


#63
METHYL METHACRYLATE
Concen: 8.3365 PPBV
RT: 10.101 min Scan# 1310
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 69 Resp: 391110

Ion	Ratio	Lower	Upper
69	100		
41	111.6	95.3	155.3
100	35.1	6.3	66.3

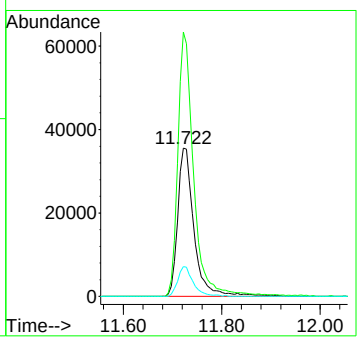


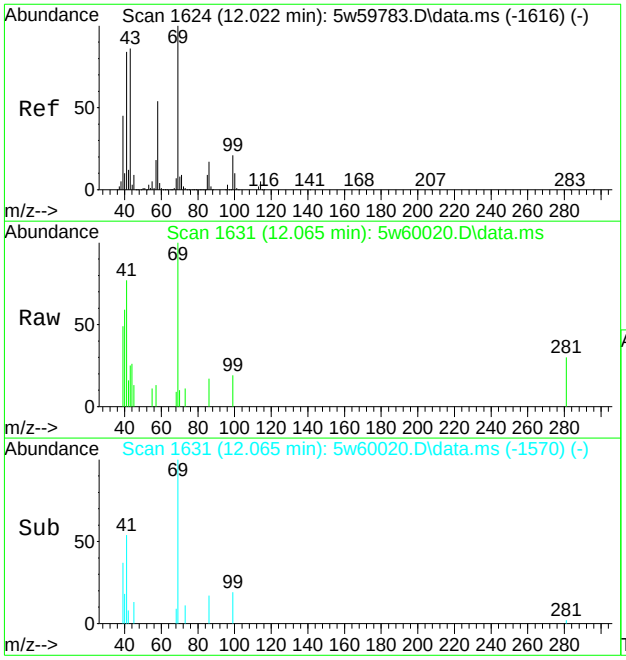


#66
TOLUENE
Concen: 0.7622 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 92 Resp: 82015

Ion	Ratio	Lower	Upper
92	100		
91	173.8	140.1	200.1
65	19.2	0.0	53.1

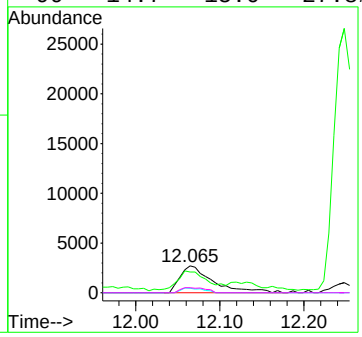


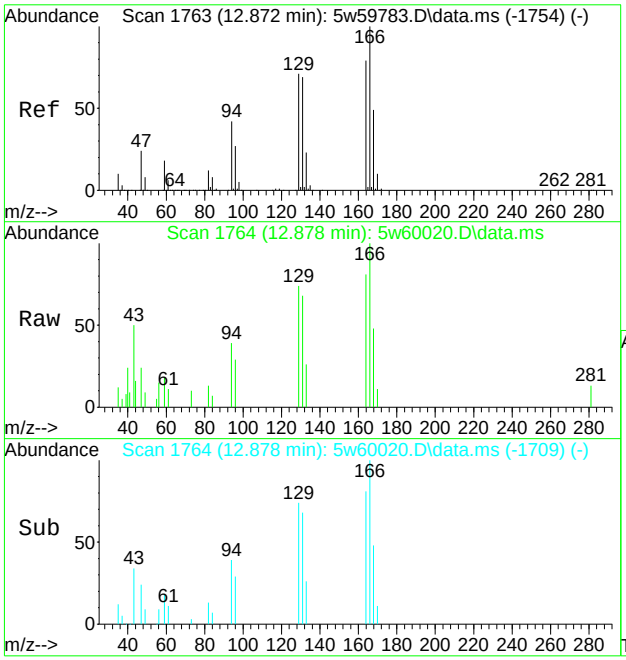


#72
ETHYL METHACRYLATE
Concen: 0.1037 PPBV
RT: 12.065 min Scan# 1631
Delta R.T. 0.043 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 69 Resp: 7426

Ion	Ratio	Lower	Upper
69	100		
41	59.8	64.0	119.0#
86	11.8	12.0	22.4#
99	14.7	15.0	27.8#

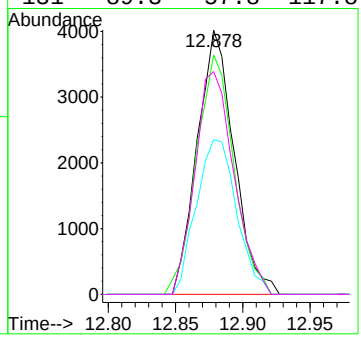


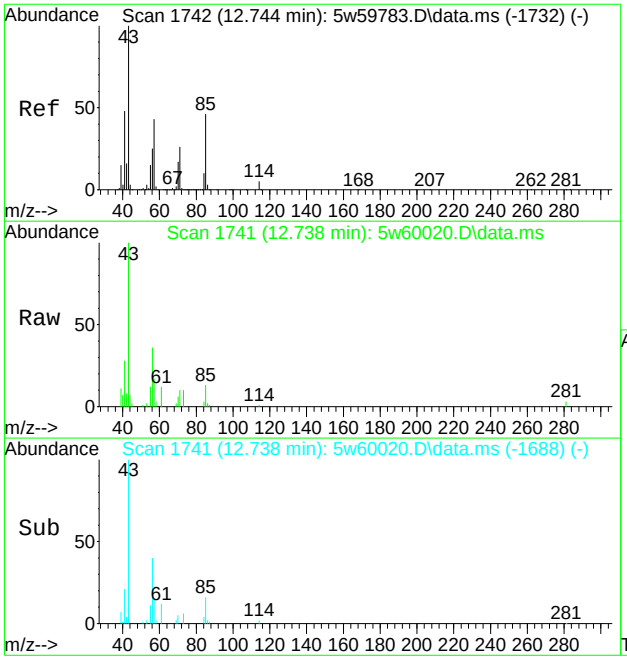


#73
TETRACHLOROETHYLENE
Concen: 0.1084 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion:164 Resp: 7666

Ion	Ratio	Lower	Upper
164	100		
129	92.5	59.7	119.7
168	64.1	32.2	92.2
131	89.3	57.8	117.8

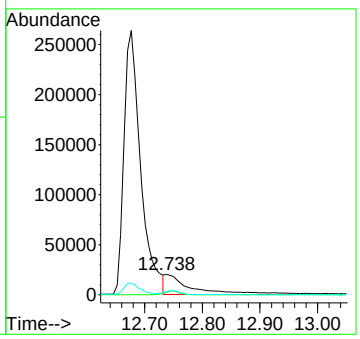


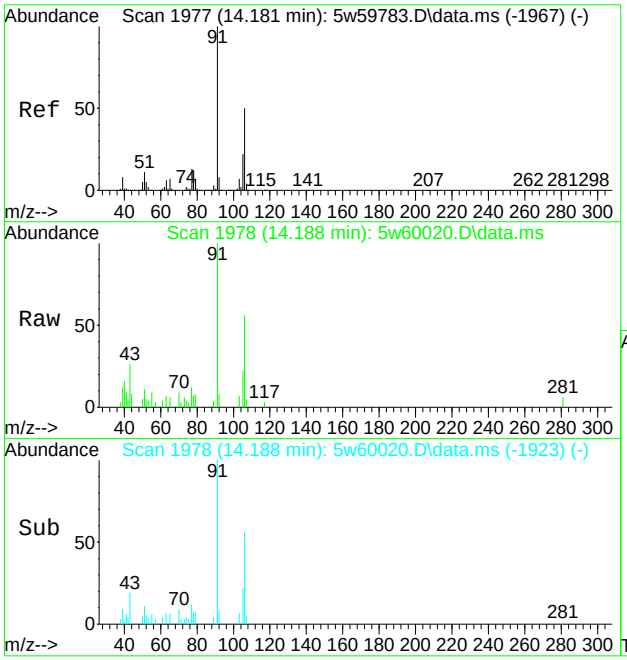


#76
OCTANE
Concen: 0.6540 PPBV m
RT: 12.738 min Scan# 1741
Delta R.T. -0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 43 Resp: 64383

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	38.3	13.7	73.7

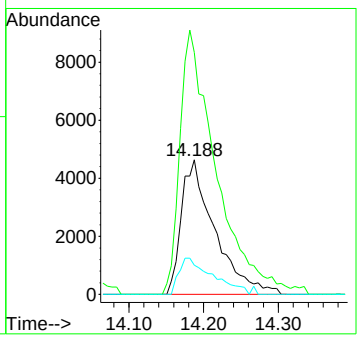


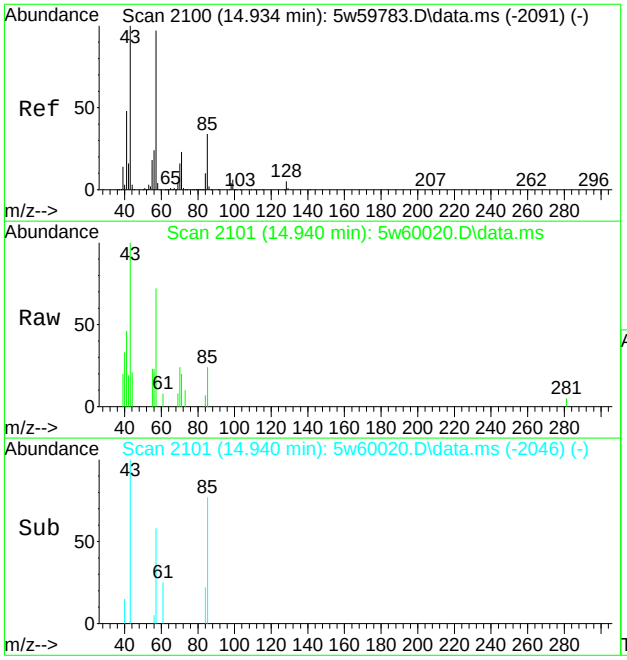


#80
m,p-XYLENE
Concen: 0.1839 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion:106 Resp: 14395

Ion	Ratio	Lower	Upper
106	100		
91	179.6	171.0	231.0
77	21.6	0.0	56.7

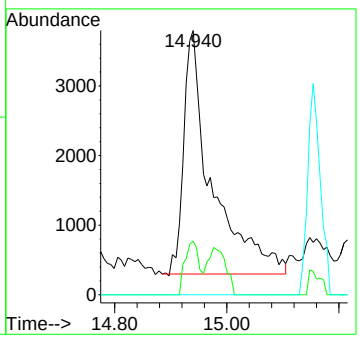




#83
NONANE
Concen: 0.1219 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w60020.D
Acq: 25 Nov 2025 1:14 am

Tgt Ion: 43 Resp: 12141

Ion	Ratio	Lower	Upper
43	100		
71	11.5	0.0	52.7
128	0.0	0.0	34.7



Manual Integration Approval Summary

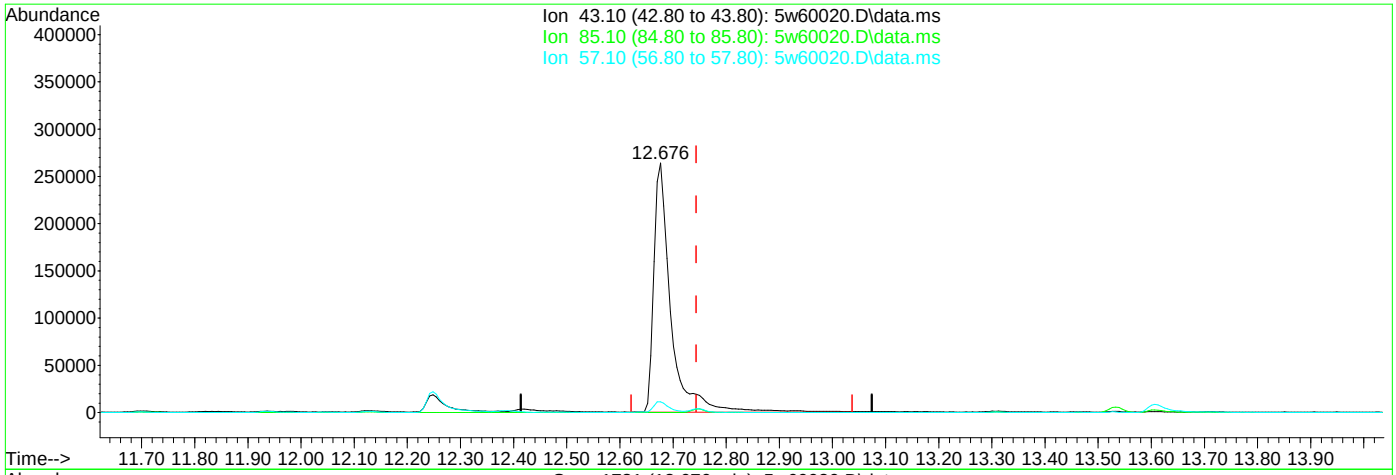
Sample Number: JE23793-6
Lab FileID: 5W60020.D
Injection Time: 11/25/25 01:14
Method: TO-15
Analyst approved: 11/25/25 16:57 Claire Basilio
Supervisor approved: 11/28/25 18:46 Kanya Veerawat

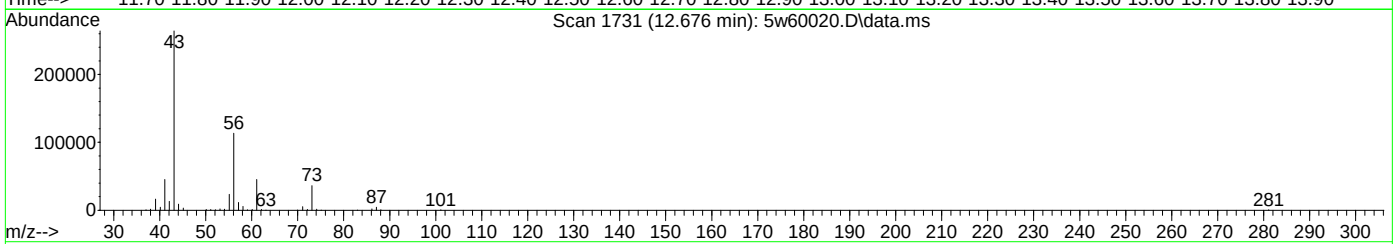
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octane	111-65-9		12.74	Overlapping peak

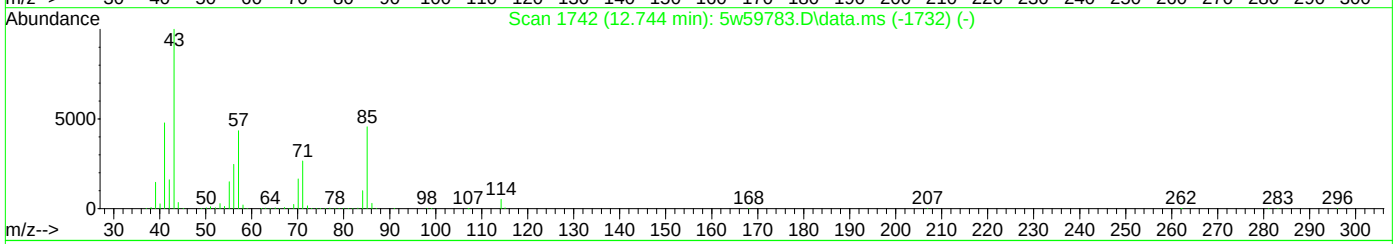
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60020.D
Acq On : 25 Nov 2025 1:14 am
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2301,500,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 26 04:50:40 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60020.D\data.ms

(76) OCTANE

12.676min (-0.068) 6.02PPBV

response 593031

Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	4.16#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60047.D
Acq On : 25 Nov 2025 8:59 pm
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 27 05:46:22 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

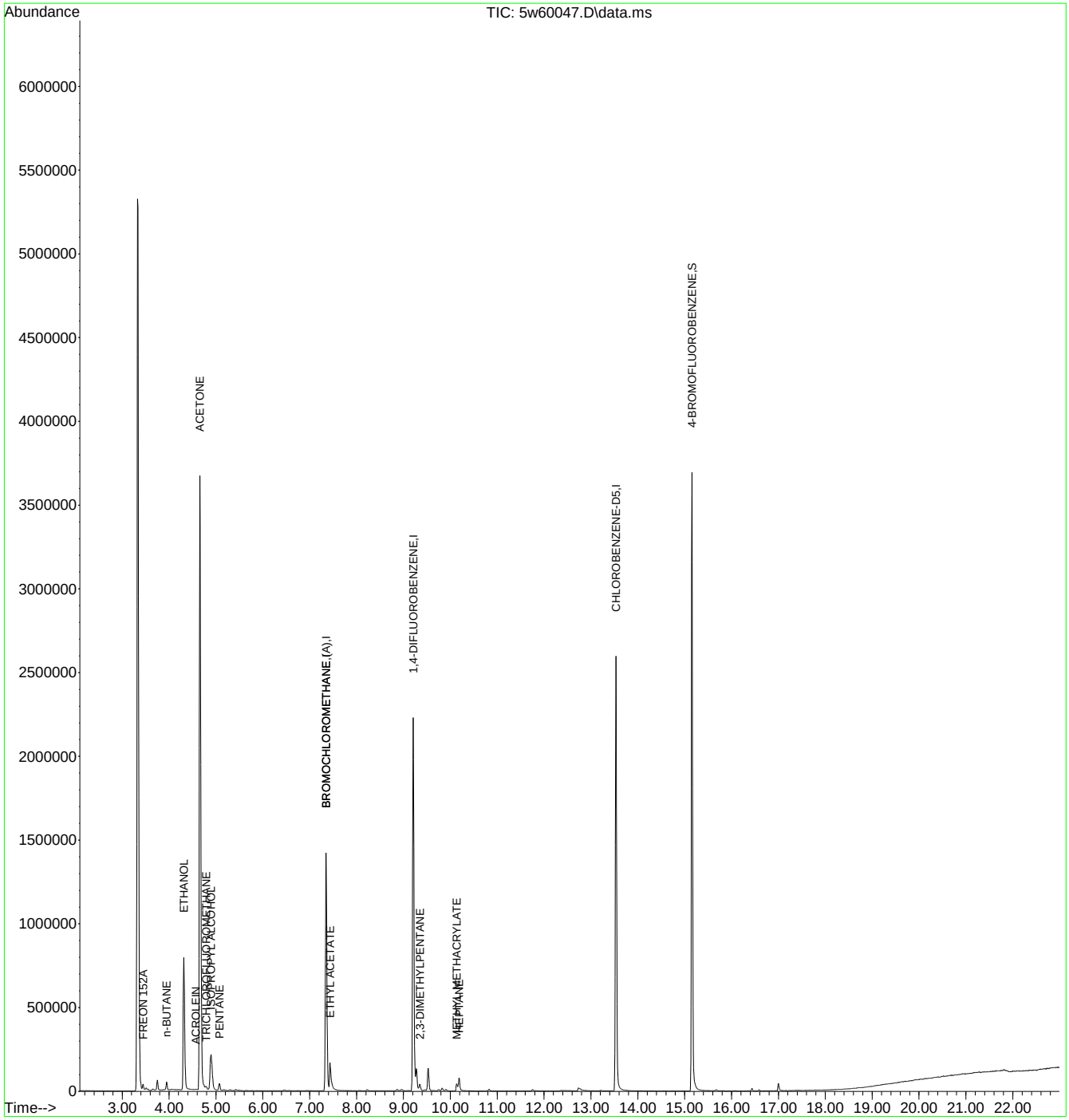
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	450636	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	1978369	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	911648	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	450636	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1256554	11.03	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 110.30%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	16667	0.4987	PPBV	95
13) n-BUTANE	3.947	43	43835	1.0206	PPBV	94
18) ACROLEIN	4.571	56	3863	0.2771	PPBV #	65
21) TRICHLOROFLUOROMETHANE	4.791	101	11016	0.1000	PPBV	99
22) ISOPROPYL ALCOHOL	4.895	45	444397	5.0290	PPBV	91
23) ACETONE	4.656	58	1839213	104.0625	PPBV	87
24) PENTANE	5.072	42	17729	0.3862	PPBV	95
28) ETHANOL	4.314	45	1035602	69.9509	PPBV	98
44) ETHYL ACETATE	7.434	61	41547	3.1237	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.349	71	6071	0.2269	PPBV	87
62) HEPTANE	10.187	43	28946	0.3796	PPBV	95
63) METHYL METHACRYLATE	10.138	69	31562	0.7307	PPBV #	61

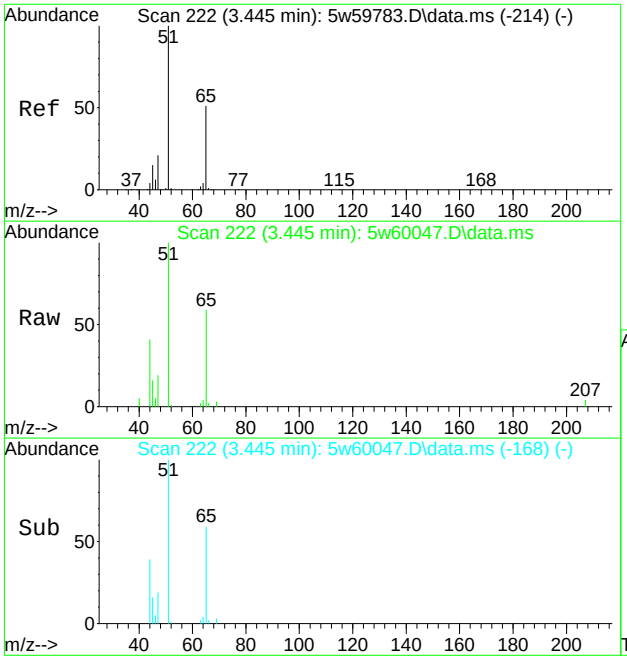
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60047.D
Acq On : 25 Nov 2025 8:59 pm
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2302,50,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 27 05:46:22 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

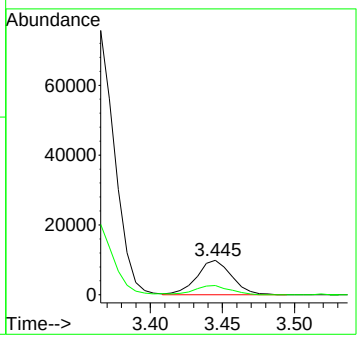


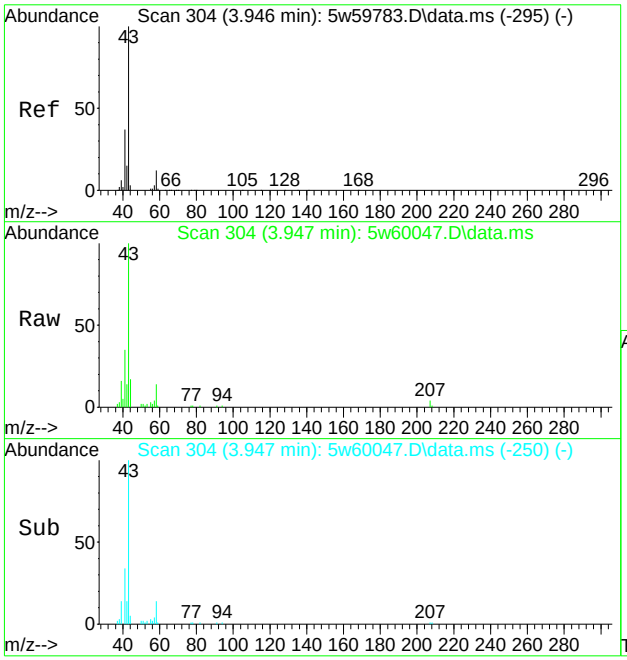


#3
FREON 152A
Concen: 0.4987 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 65 Resp: 16667

Ion	Ratio	Lower	Upper
65	100		
45	27.1	0.0	60.0

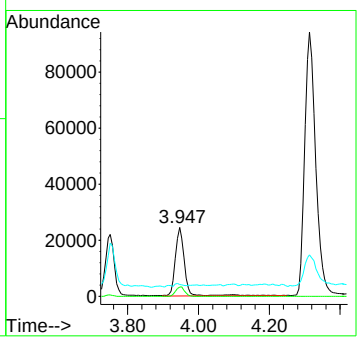


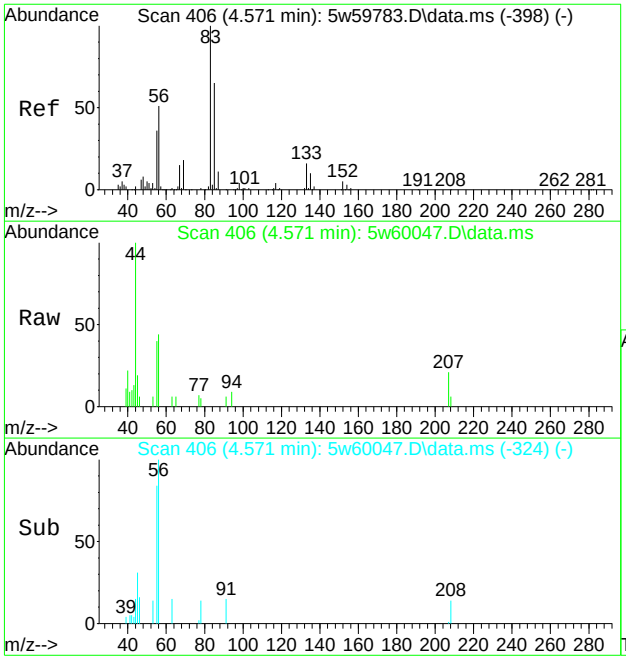


#13
n-BUTANE
Concen: 1.0206 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 43 Resp: 43835

Ion	Ratio	Lower	Upper
43	100		
58	13.6	0.0	42.6
44	10.0	0.0	34.9

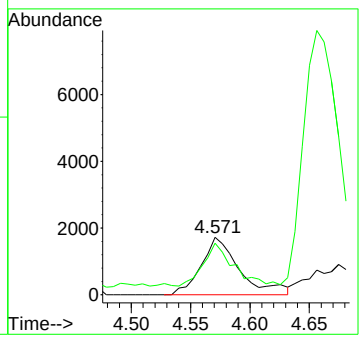


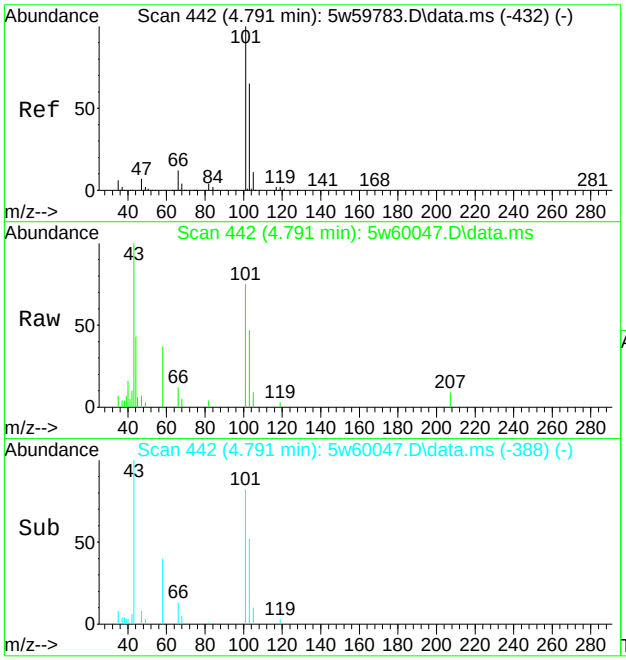


#18
ACROLEIN
Concen: 0.2771 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 56 Resp: 3863

Ion	Ratio	Lower	Upper
56	100		
55	94.3	46.6	86.6#

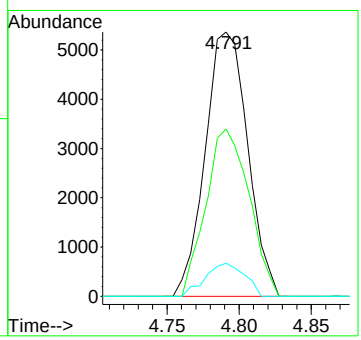


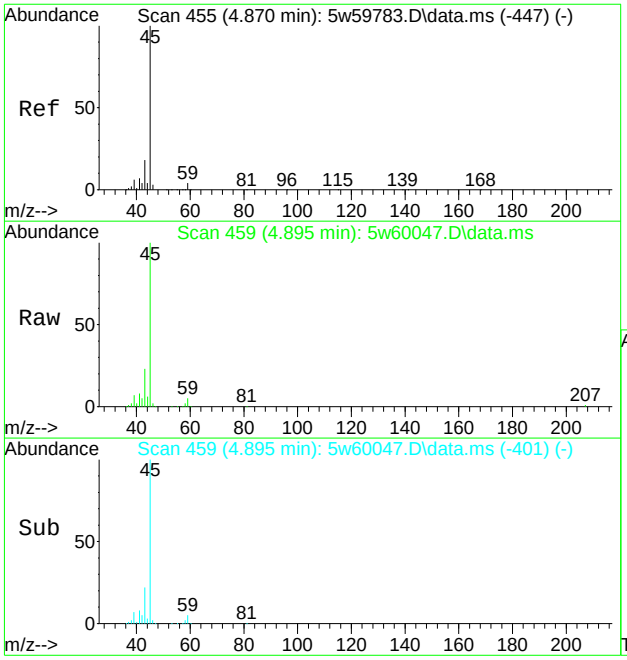


#21
TRICHLOROFLUOROMETHANE
Concen: 0.1000 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion:101 Resp: 11016

Ion	Ratio	Lower	Upper
101	100		
103	64.3	35.0	95.0
105	11.7	0.0	40.7

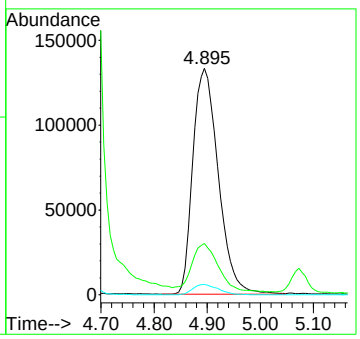


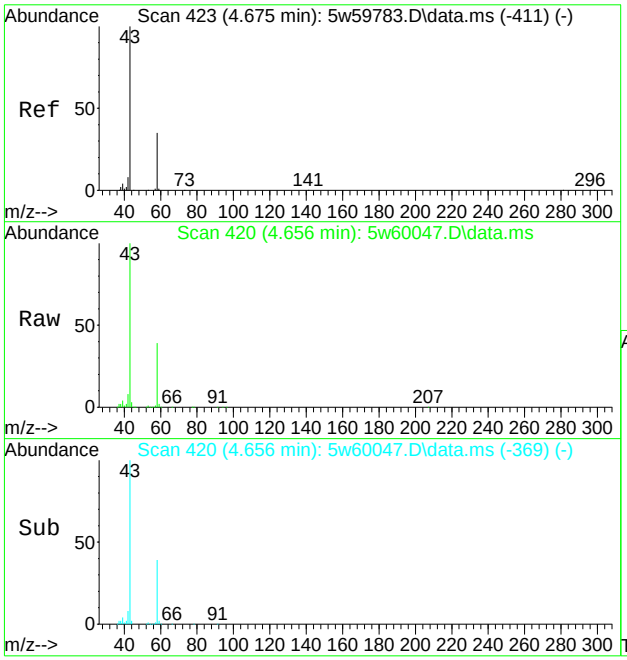


#22
ISOPROPYL ALCOHOL
Concen: 5.0290 PPBV
RT: 4.895 min Scan# 459
Delta R.T. 0.025 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 45 Resp: 444397

Ion	Ratio	Lower	Upper
45	100		
43	22.7	0.0	47.8
59	4.6	0.0	34.1

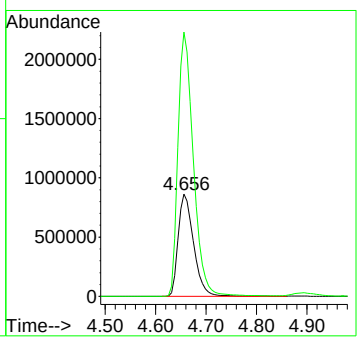


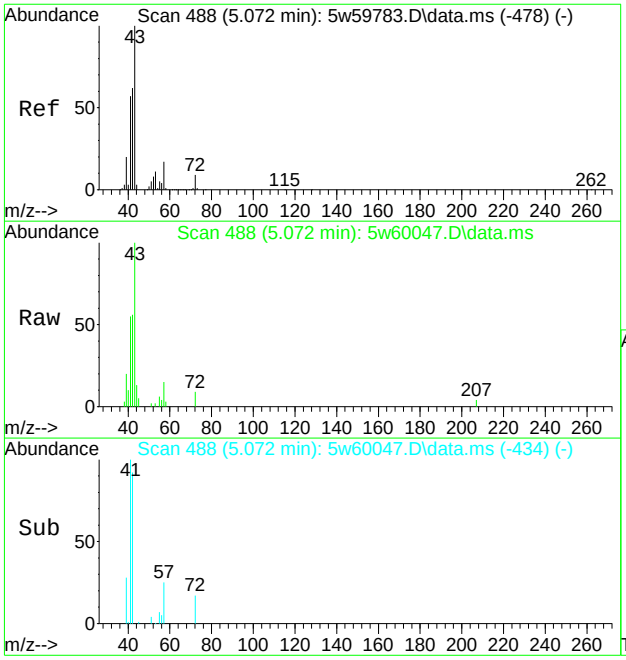


#23
ACETONE
Concen: 104.0625 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 58 Resp: 1839213

Ion	Ratio	Lower	Upper
58	100		
43	257.6	252.3	312.3

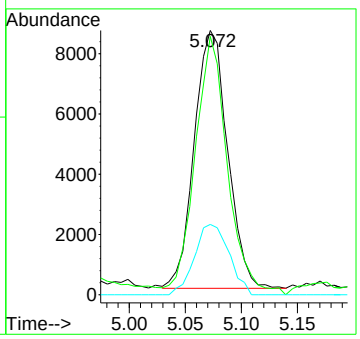


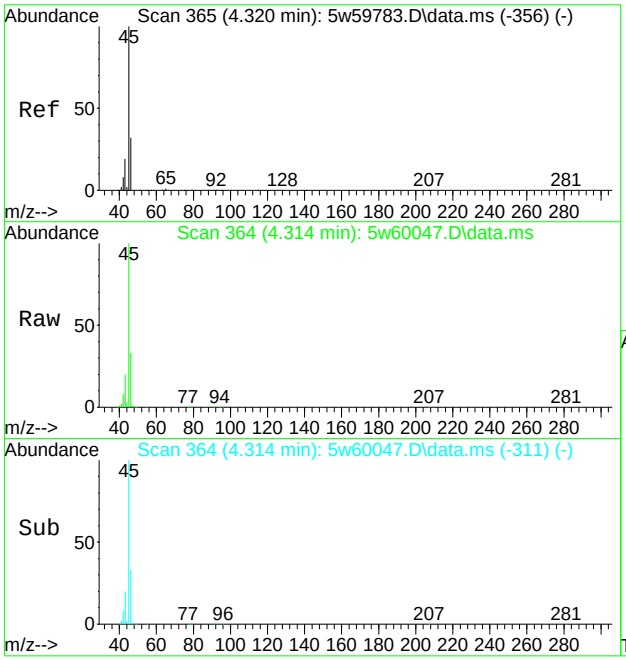


#24
PENTANE
Concen: 0.3862 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 42 Resp: 17729

Ion	Ratio	Lower	Upper
42	100		
41	97.7	62.3	122.3
57	28.2	0.0	57.7

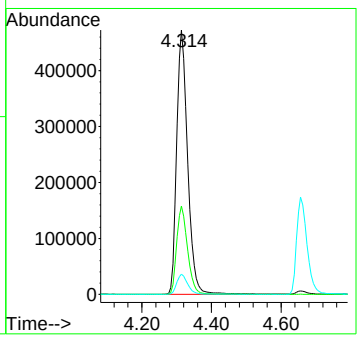


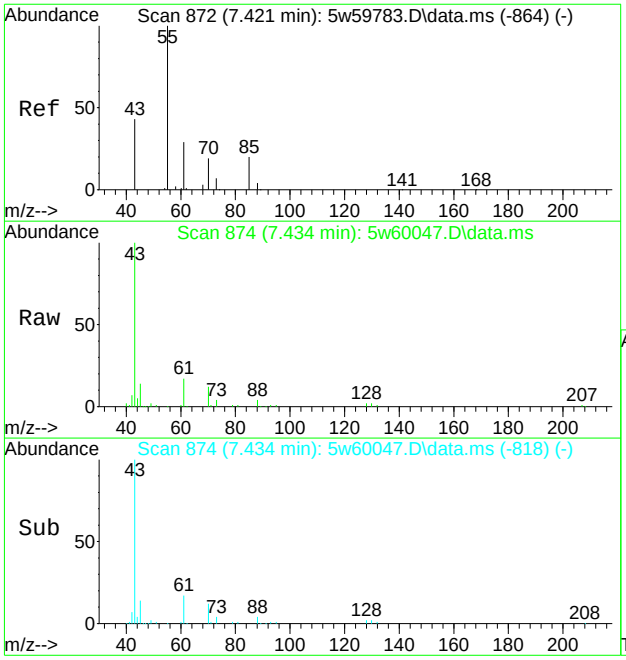


#28
ETHANOL
Concen: 69.9509 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 45 Resp: 1035602

Ion	Ratio	Lower	Upper
45	100		
46	33.4	2.0	62.0
42	8.1	0.0	38.5

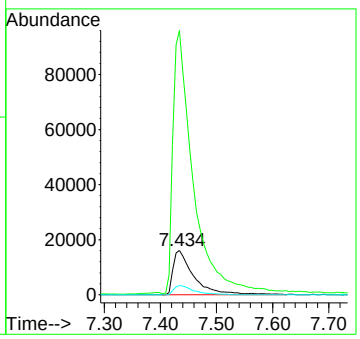


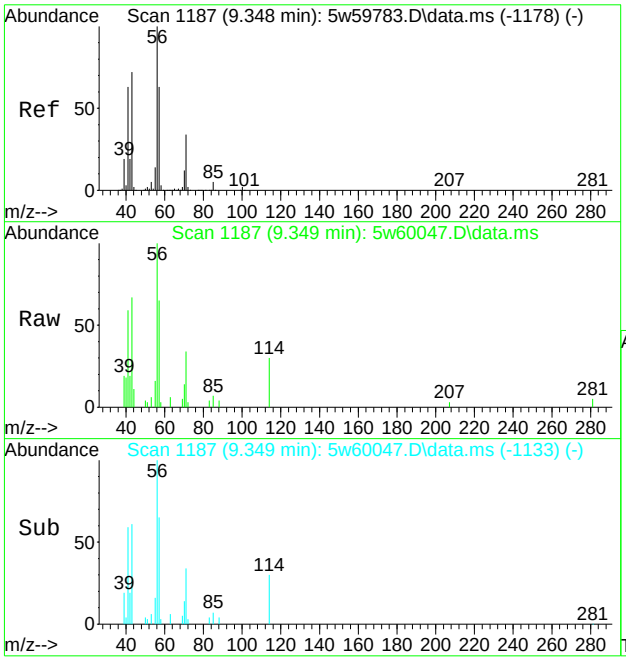


#44
ETHYL ACETATE
Concen: 3.1237 PPBV
RT: 7.434 min Scan# 874
Delta R.T. 0.013 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 61 Resp: 41547

Ion	Ratio	Lower	Upper
61	100		
43	589.9	560.5	620.5
88	20.1	4.5	64.5

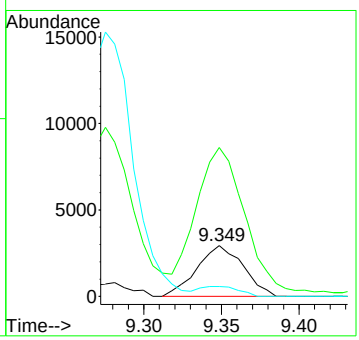


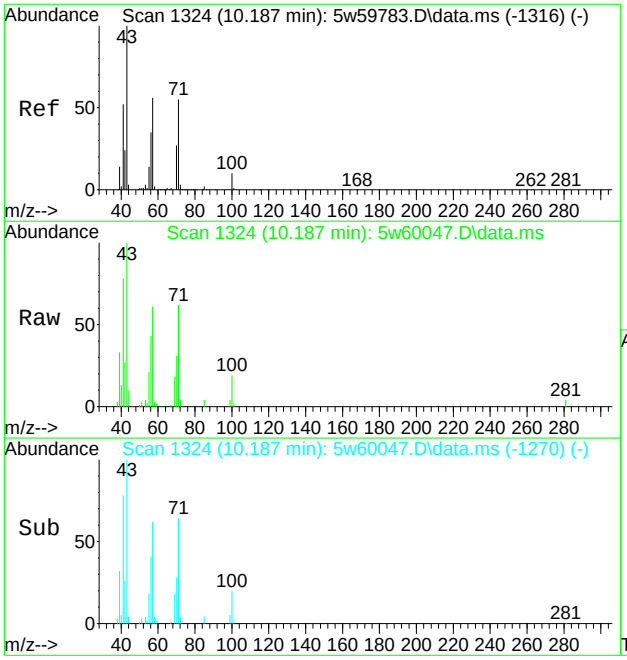


#54
2,3-DIMETHYLPENTANE
Concen: 0.2269 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 71 Resp: 6071

Ion	Ratio	Lower	Upper
71	100		
56	321.5	264.6	324.6
85	16.6	0.0	45.3

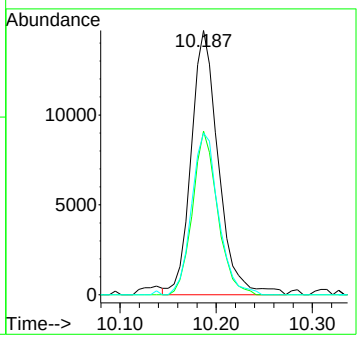


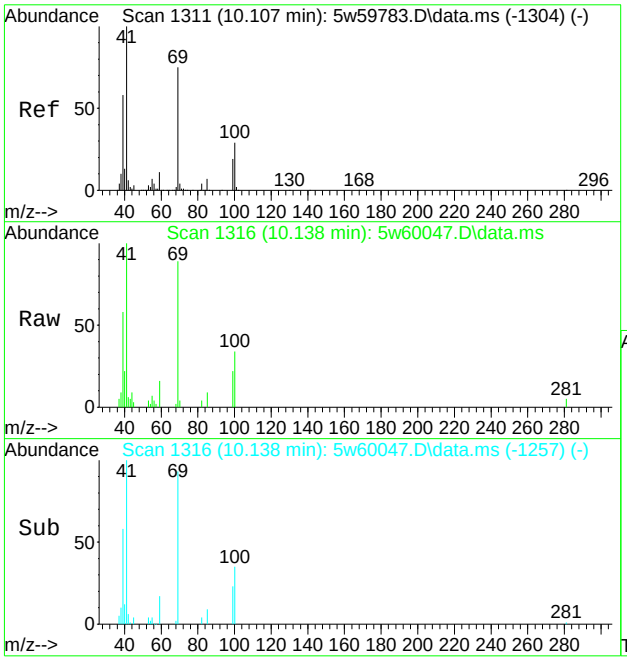


#62
HEPTANE
Concen: 0.3796 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 43 Resp: 28946

Ion	Ratio	Lower	Upper
43	100		
71	56.9	24.5	84.5
57	60.4	26.2	86.2

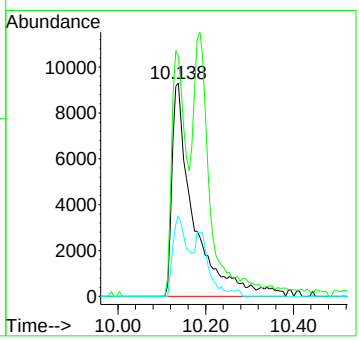




#63
METHYL METHACRYLATE
Concen: 0.7307 PPBV
RT: 10.138 min Scan# 1316
Delta R.T. 0.031 min
Lab File: 5w60047.D
Acq: 25 Nov 2025 8:59 pm

Tgt Ion: 69 Resp: 31562

Ion	Ratio	Lower	Upper
69	100		
41	73.1	95.3	155.3#
100	27.5	6.3	66.3



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\rosanlie\Nov 2025\11-27-25\V5W2302 hw\
Data File : 5w60050.D
Acq On : 25 Nov 2025 10:50 pm
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2302,25,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 27 12:52:23 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

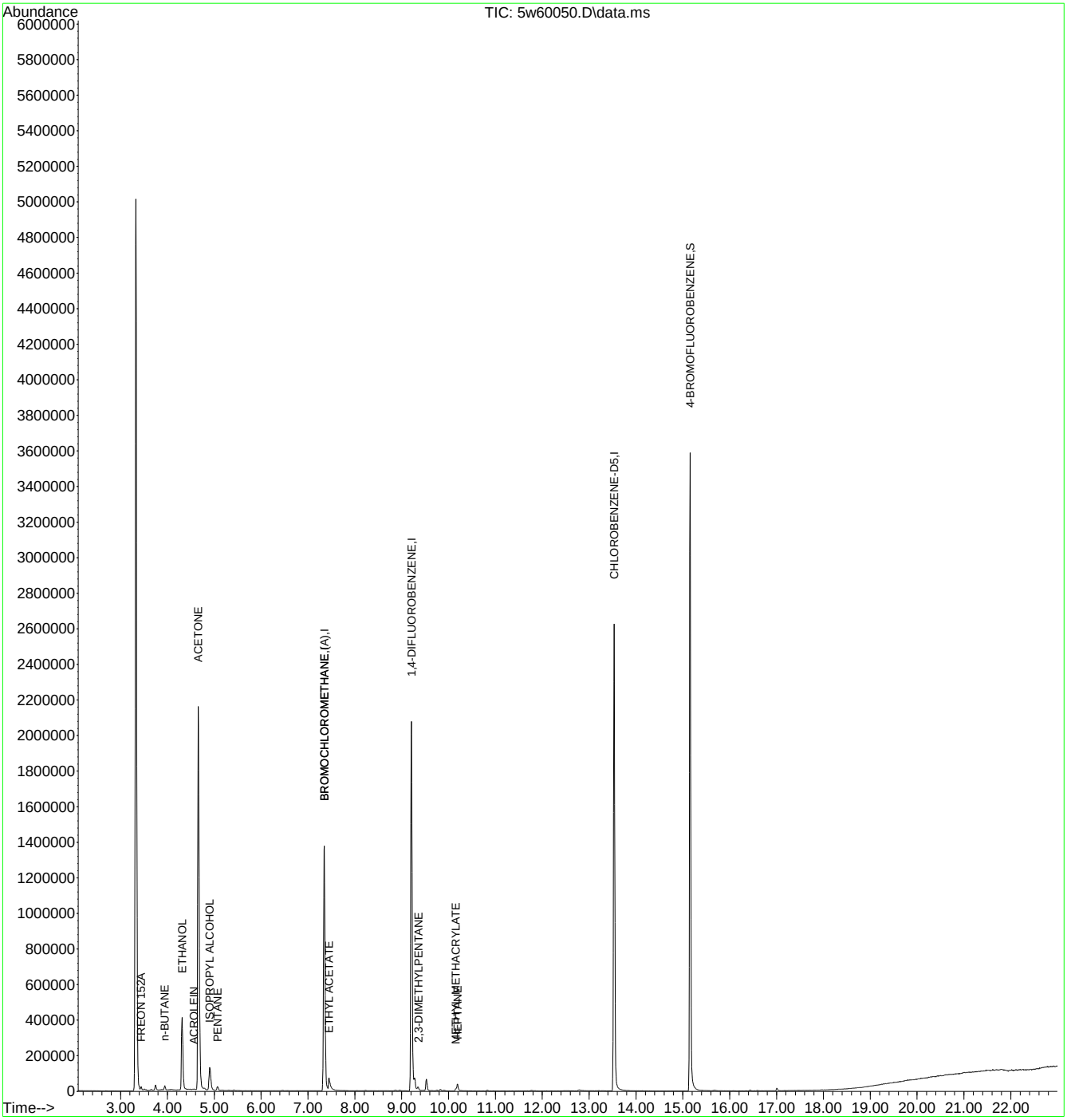
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	451040	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	1905444	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	923639	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	451040	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1215098	10.53	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 105.30%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	9281	0.2774	PPBV	98
13) n-BUTANE	3.941	43	20289	0.4720	PPBV #	93
18) ACROLEIN	4.565	56	2666	0.1910	PPBV	77
22) ISOPROPYL ALCOHOL	4.901	45	225705	2.5519	PPBV	88
23) ACETONE	4.656	58	1122490	63.4535	PPBV #	83
24) PENTANE	5.066	42	10487	0.2282	PPBV	96
28) ETHANOL	4.314	45	539877	36.4339	PPBV	98
44) ETHYL ACETATE	7.446	61	19247	1.4458	PPBV	92
54) 2,3-DIMETHYLPENTANE	9.355	71	2984	0.1158	PPBV #	72
62) HEPTANE	10.193	43	14004	0.1907	PPBV	97
63) METHYL METHACRYLATE	10.150	69	13448	0.3232	PPBV #	1

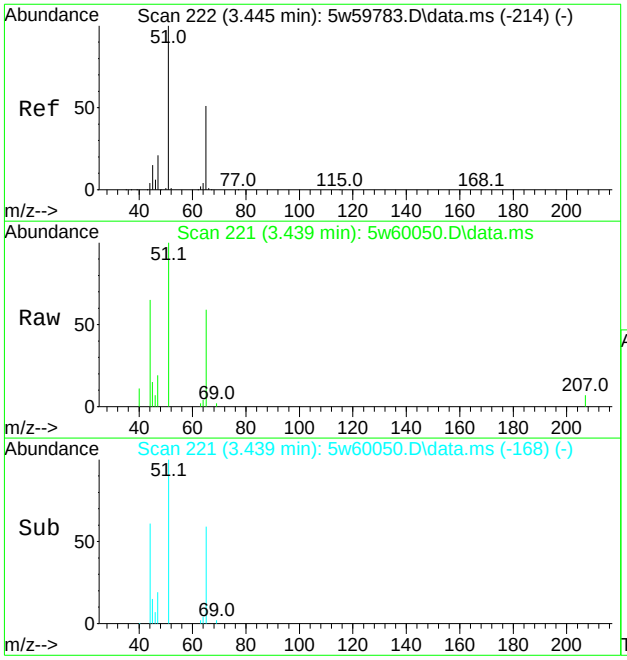
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\rosanlie\Nov 2025\11-27-25\V5W2302 hw\
Data File : 5w60050.D
Acq On : 25 Nov 2025 10:50 pm
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2302,25,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 27 12:52:23 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

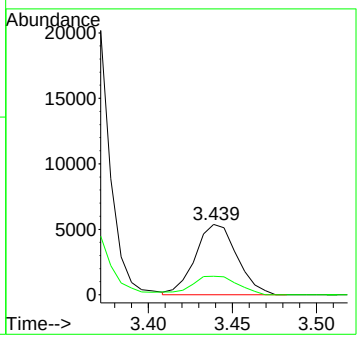


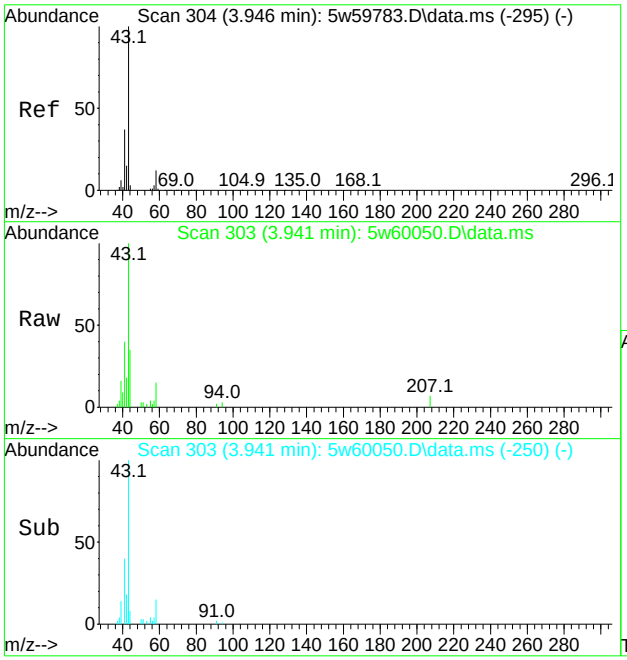


#3
FREON 152A
Concen: 0.2774 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 65 Resp: 9281

Ion	Ratio	Lower	Upper
65	100		
45	28.9	0.0	60.0

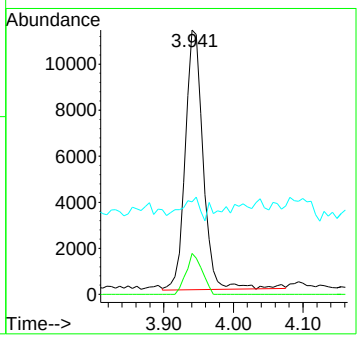


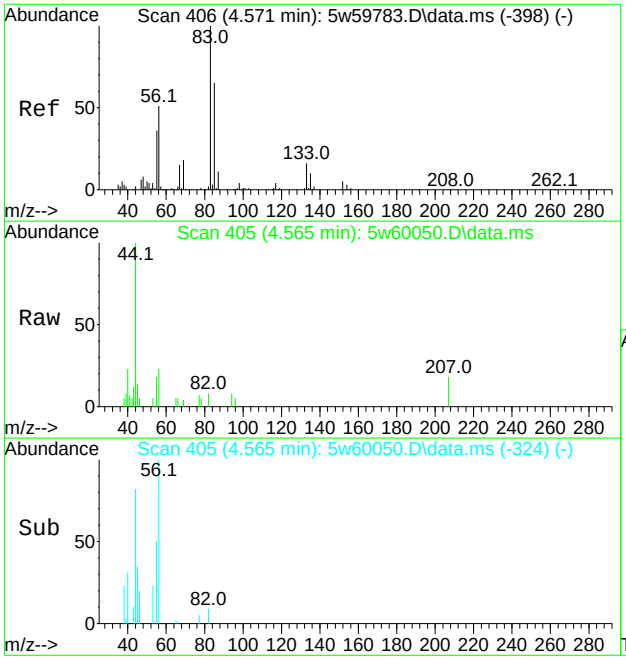


#13
n-BUTANE
Concen: 0.4720 PPBV
RT: 3.941 min Scan# 303
Delta R.T. -0.005 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 43 Resp: 20289

Ion	Ratio	Lower	Upper
43	100		
58	13.9	0.0	42.6
44	0.0	0.0	34.9

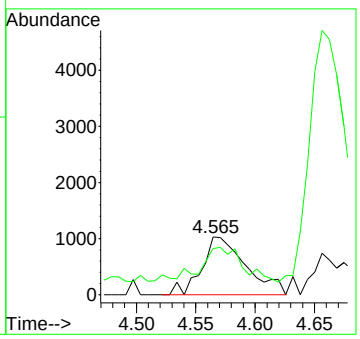


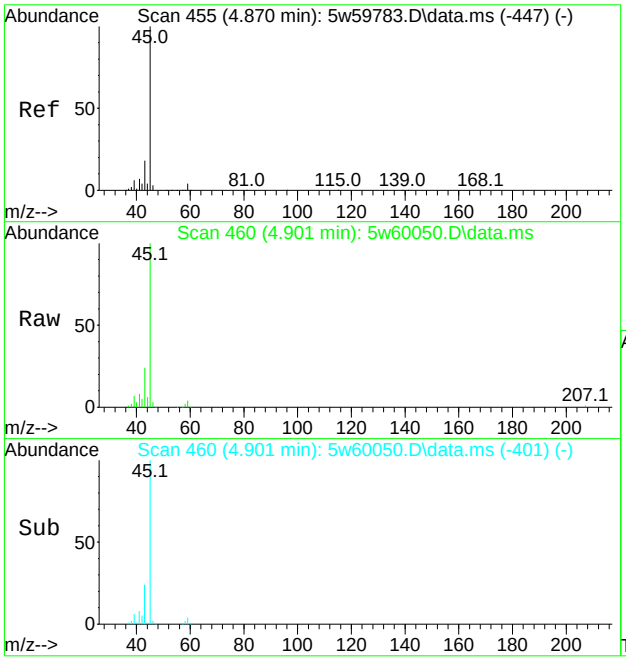


#18
ACROLEIN
Concen: 0.1910 PPBV
RT: 4.565 min Scan# 405
Delta R.T. -0.006 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 56 Resp: 2666

Ion	Ratio	Lower	Upper
56	100		
55	47.9	46.6	86.6

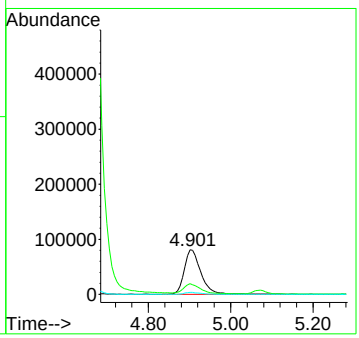


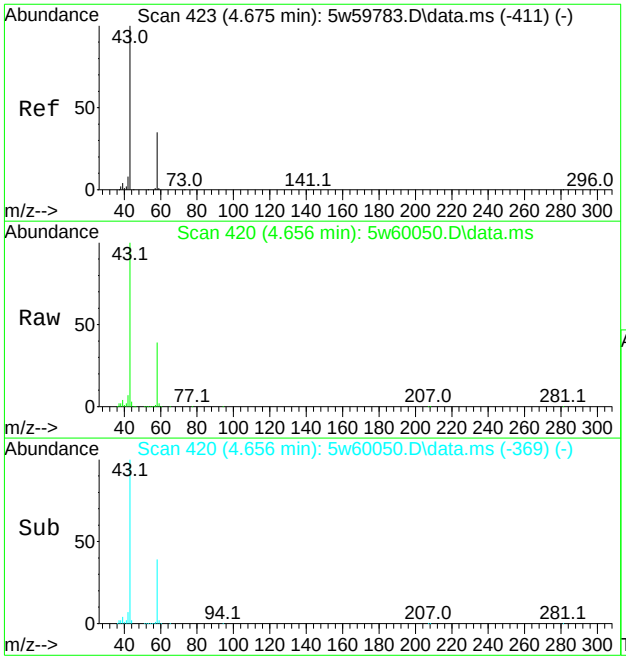


#22
ISOPROPYL ALCOHOL
Concen: 2.5519 PPBV
RT: 4.901 min Scan# 460
Delta R.T. 0.031 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 45 Resp: 225705

Ion	Ratio	Lower	Upper
45	100		
43	24.0	0.0	47.8
59	4.5	0.0	34.1

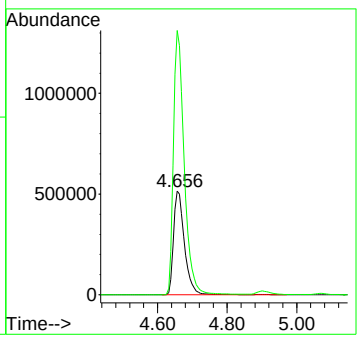


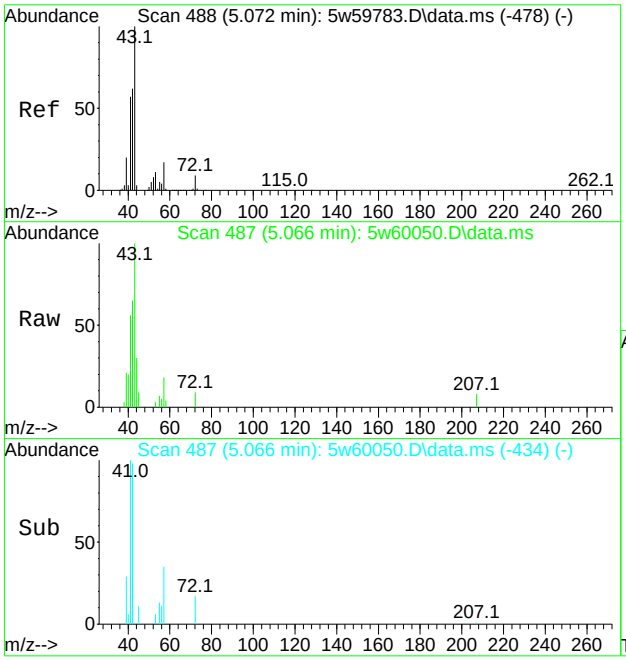


#23
ACETONE
Concen: 63.4535 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 58 Resp: 1122490

Ion	Ratio	Lower	Upper
58	100		
43	251.0	252.3	312.3#

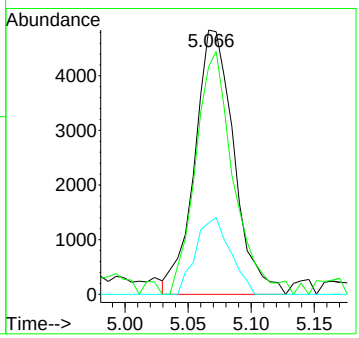


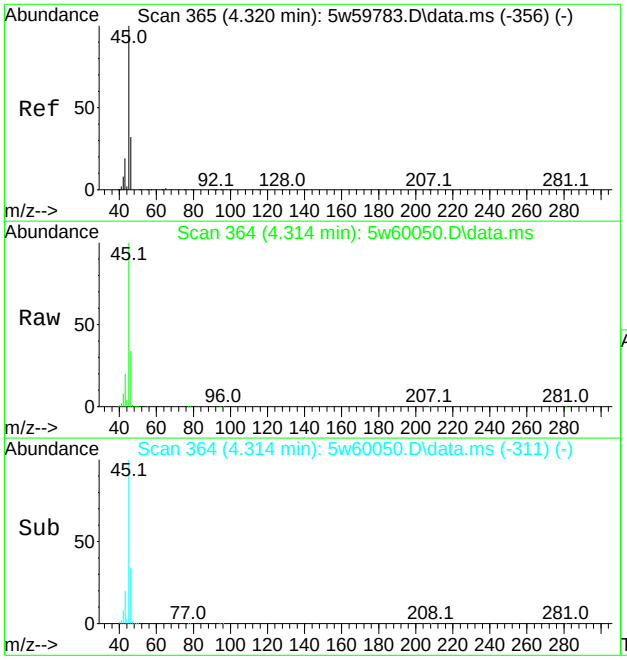


#24
PENTANE
Concen: 0.2282 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 42 Resp: 10487

Ion	Ratio	Lower	Upper
42	100		
41	88.4	62.3	122.3
57	25.7	0.0	57.7

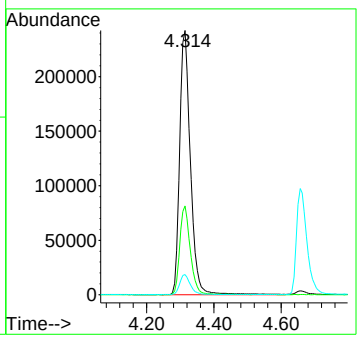


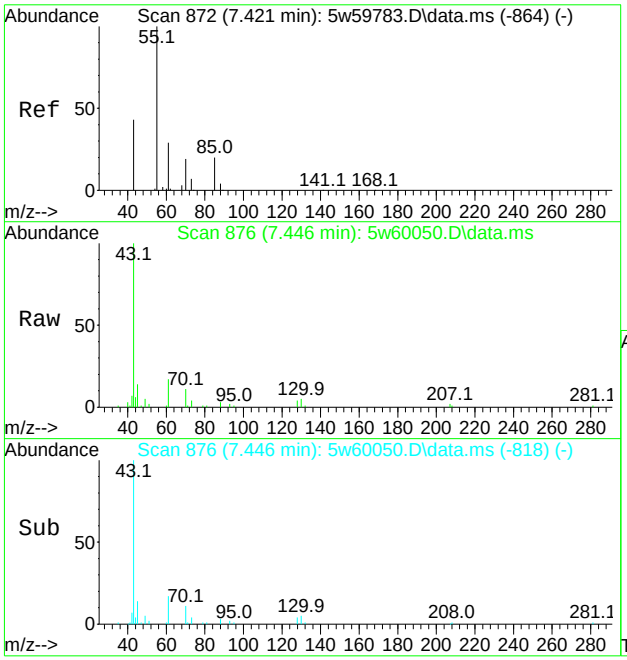


#28
ETHANOL
Concen: 36.4339 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 45 Resp: 539877

Ion	Ratio	Lower	Upper
45	100		
46	33.1	2.0	62.0
42	7.8	0.0	38.5

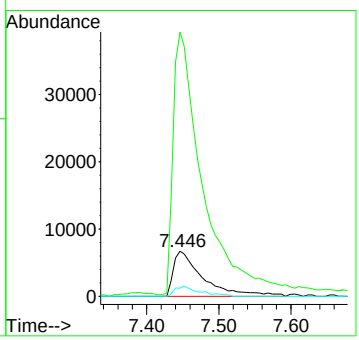


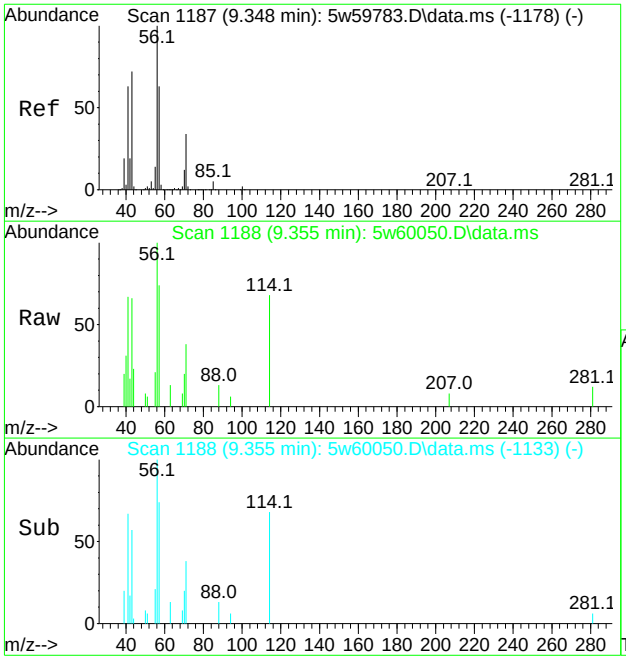


#44
ETHYL ACETATE
Concen: 1.4458 PPBV
RT: 7.446 min Scan# 876
Delta R.T. 0.025 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 61 Resp: 19247

Ion	Ratio	Lower	Upper
61	100		
43	611.9	560.5	620.5
88	18.9	4.5	64.5

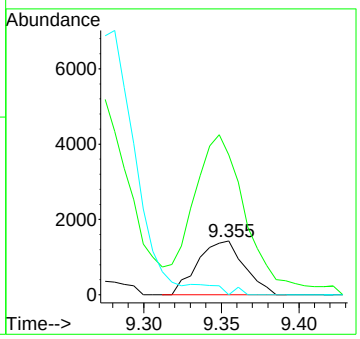


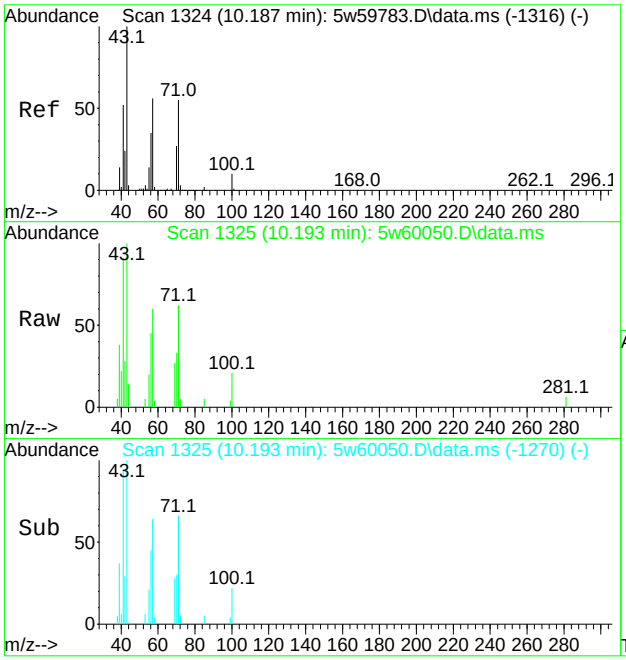


#54
2,3-DIMETHYLPENTANE
Concen: 0.1158 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 71 Resp: 2984

Ion	Ratio	Lower	Upper
71	100		
56	347.7	264.6	324.6#
85	0.0	0.0	45.3

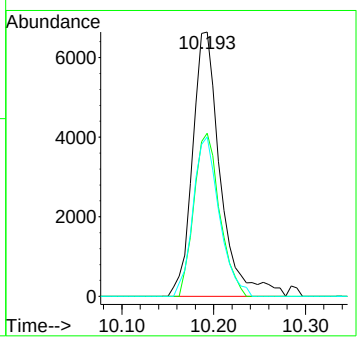


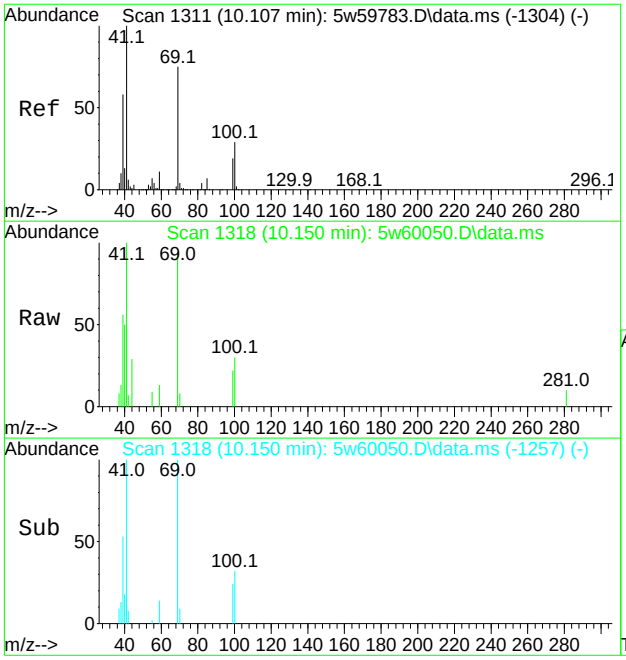


#62
HEPTANE
Concen: 0.1907 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 43 Resp: 14004

Ion	Ratio	Lower	Upper
43	100		
71	57.2	24.5	84.5
57	57.3	26.2	86.2

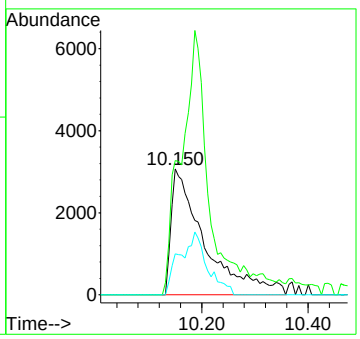




#63
METHYL METHACRYLATE
Concen: 0.3232 PPBV
RT: 10.150 min Scan# 1318
Delta R.T. 0.043 min
Lab File: 5w60050.D
Acq: 25 Nov 2025 10:50 pm

Tgt Ion: 69 Resp: 13448

Ion	Ratio	Lower	Upper
69	100		
41	0.0	95.3	155.3#
100	0.0	6.3	66.3#



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\rosanlie\Nov 2025\11-27-25\V5W2302 hw\
Data File : 5w60052.D
Acq On : 26 Nov 2025 12:03 am
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2302,10,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 27 12:59:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

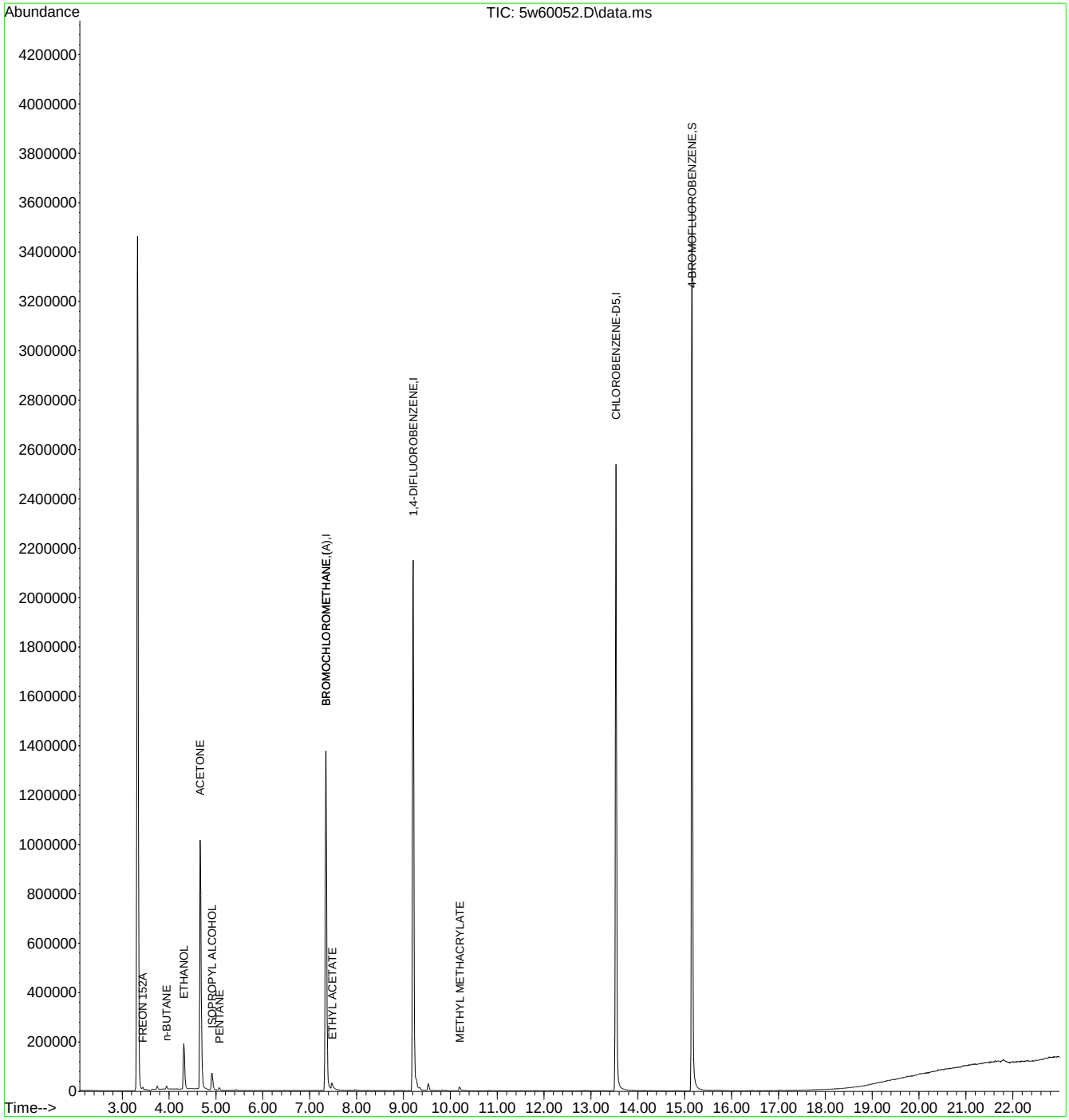
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	453780	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	1937056	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	893133	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	454455	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1220085	10.93	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.30%			
Target Compounds						Qvalue
3) FREON 152A	3.439	65	4842	0.1439	PPBV	97
13) n-BUTANE	3.947	43	11086	0.2563	PPBV #	95
22) ISOPROPYL ALCOHOL	4.913	45	105771	1.1887	PPBV	90
23) ACETONE	4.662	58	524147	29.4507	PPBV #	84
24) PENTANE	5.072	42	4847	0.1048	PPBV	96
28) ETHANOL	4.314	45	251671	16.8816	PPBV	99
44) ETHYL ACETATE	7.483	61	7971	0.5951	PPBV #	88
63) METHYL METHACRYLATE	10.205	69	4357	0.1030	PPBV #	19

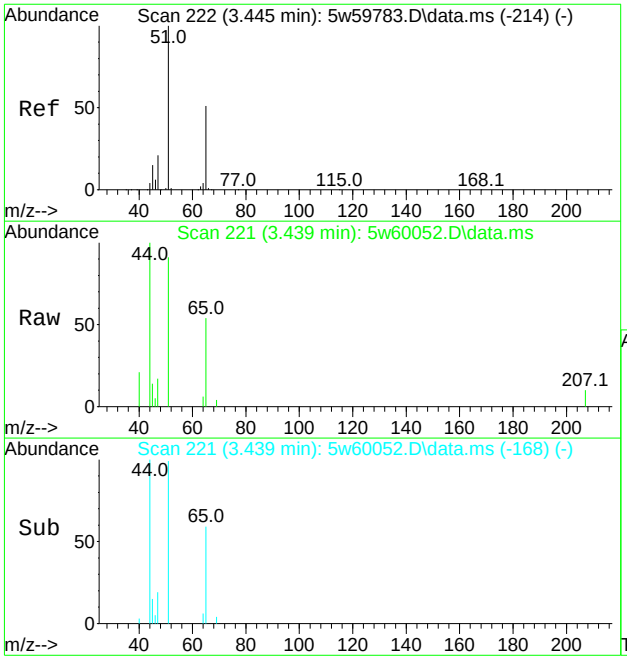
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\rosanlie\Nov 2025\11-27-25\V5W2302 hw\
Data File : 5w60052.D
Acq On : 26 Nov 2025 12:03 am
Operator : benk
Sample : je23793-6 Inst : GCMS5W
Misc : MS99437,V5W2302,10,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 27 12:59:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

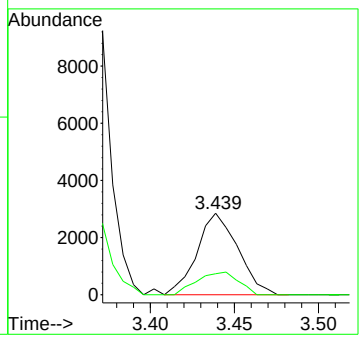


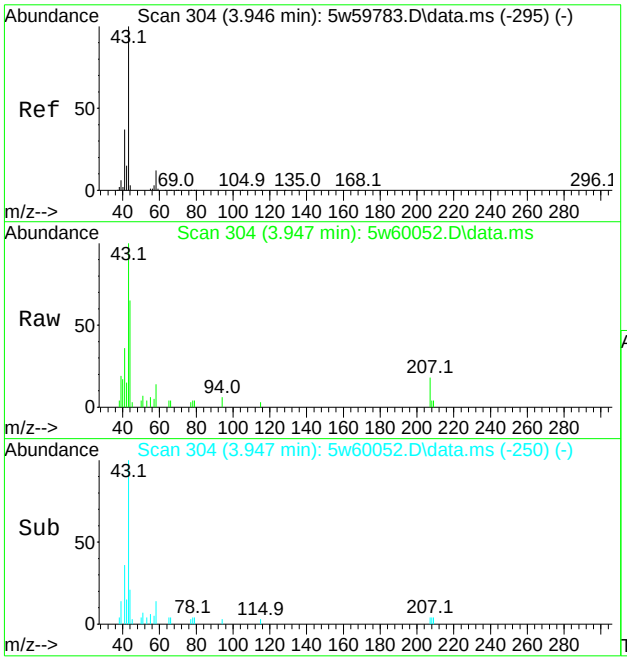


#3
FREON 152A
Concen: 0.1439 PPBV
RT: 3.439 min Scan# 221
Delta R.T. -0.006 min
Lab File: 5w60052.D
Acq: 26 Nov 2025 12:03 am

Tgt Ion: 65 Resp: 4842

Ion	Ratio	Lower	Upper
65	100		
45	28.2	0.0	60.0

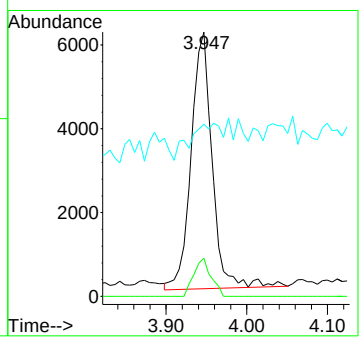


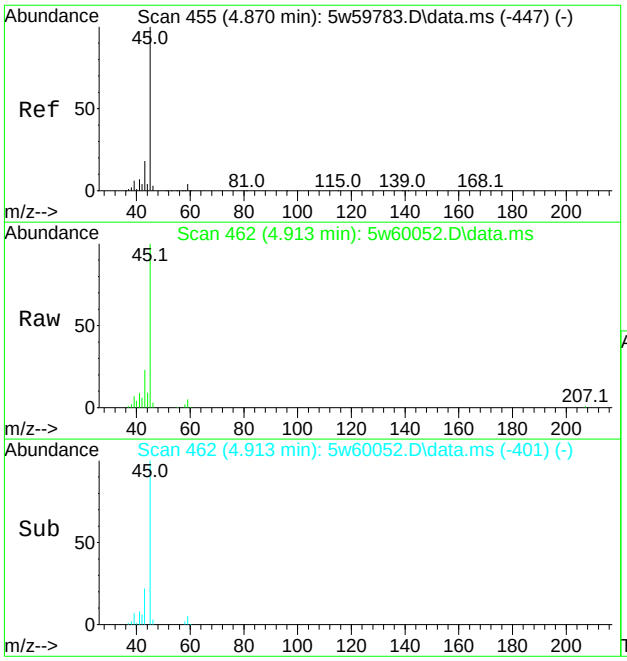


#13
n-BUTANE
Concen: 0.2563 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60052.D
Acq: 26 Nov 2025 12:03 am

Tgt Ion: 43 Resp: 11086

Ion	Ratio	Lower	Upper
43	100		
58	12.2	0.0	42.6
44	0.0	0.0	34.9

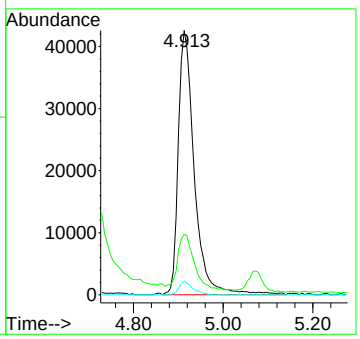


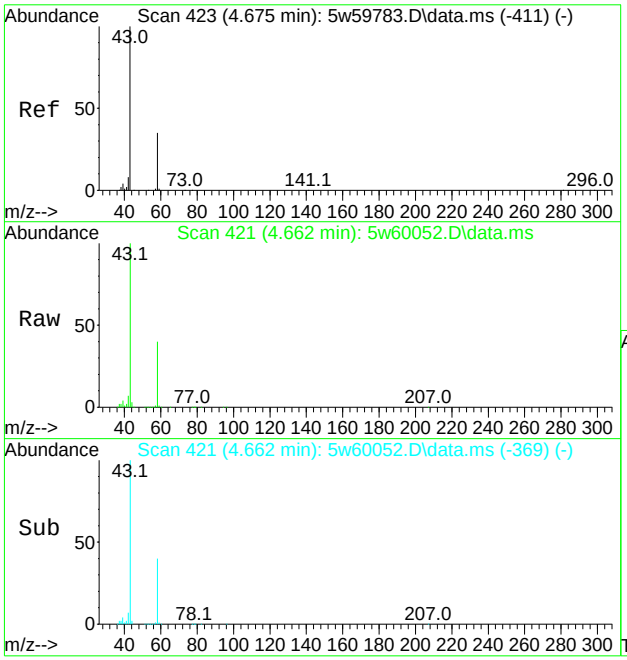


#22
ISOPROPYL ALCOHOL
Concen: 1.1887 PPBV
RT: 4.913 min Scan# 462
Delta R.T. 0.043 min
Lab File: 5w60052.D
Acq: 26 Nov 2025 12:03 am

Tgt Ion: 45 Resp: 105771

Ion	Ratio	Lower	Upper
45	100		
43	23.0	0.0	47.8
59	5.1	0.0	34.1

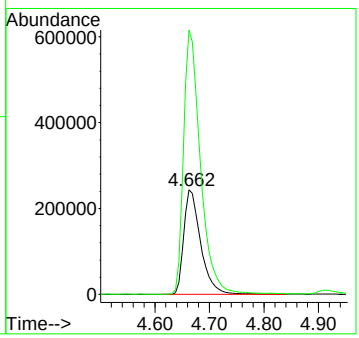


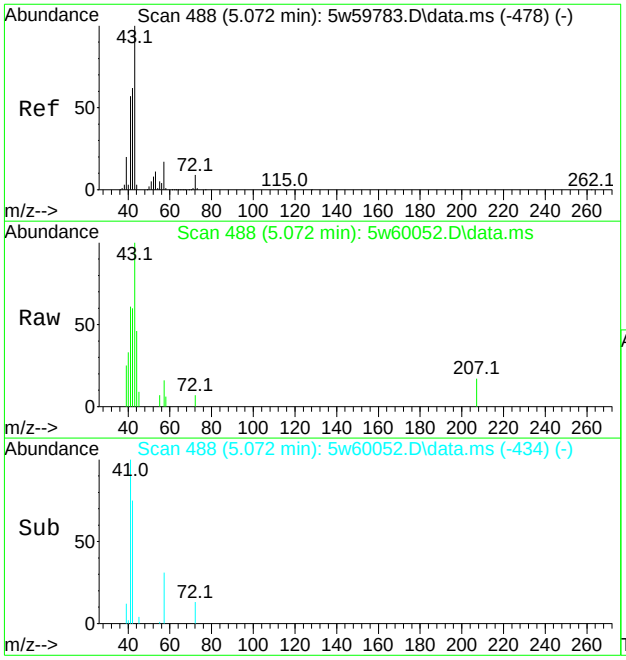


#23
ACETONE
Concen: 29.4507 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60052.D
Acq: 26 Nov 2025 12:03 am

Tgt Ion: 58 Resp: 524147

Ion	Ratio	Lower	Upper
58	100		
43	252.3	252.3	312.3#

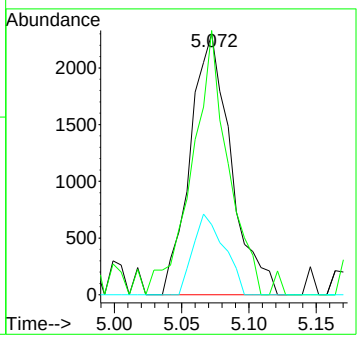


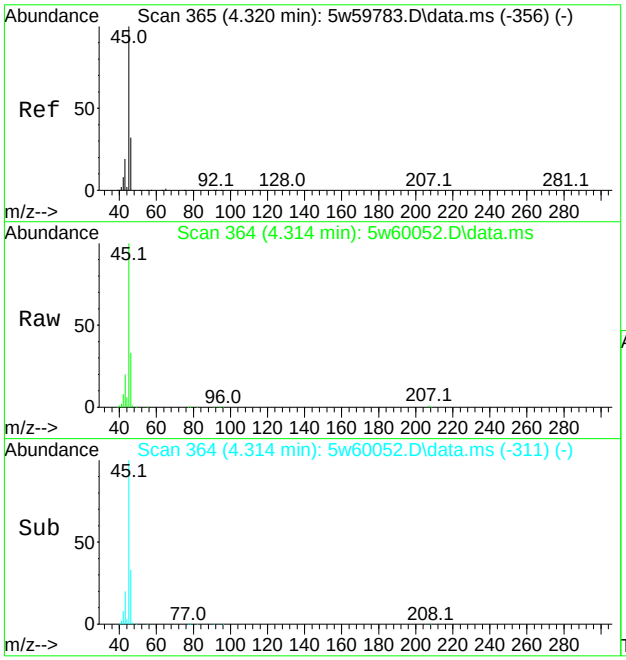


#24
PENTANE
Concen: 0.1048 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60052.D
Acq: 26 Nov 2025 12:03 am

Tgt Ion: 42 Resp: 4847

Ion	Ratio	Lower	Upper
42	100		
41	89.0	62.3	122.3
57	23.6	0.0	57.7

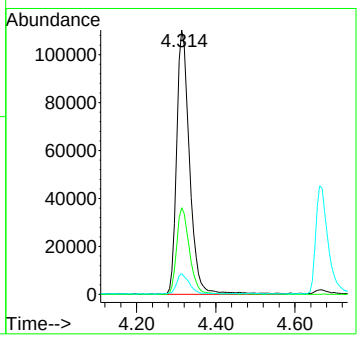


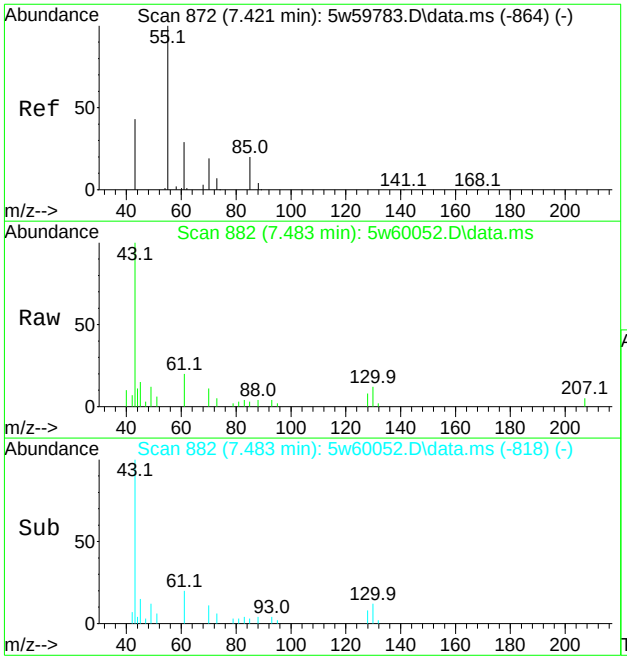


#28
ETHANOL
Concen: 16.8816 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60052.D
Acq: 26 Nov 2025 12:03 am

Tgt Ion: 45 Resp: 251671

Ion	Ratio	Lower	Upper
45	100		
46	32.4	2.0	62.0
42	8.8	0.0	38.5

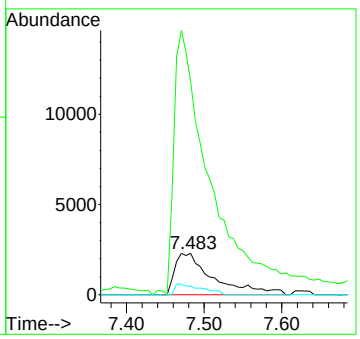


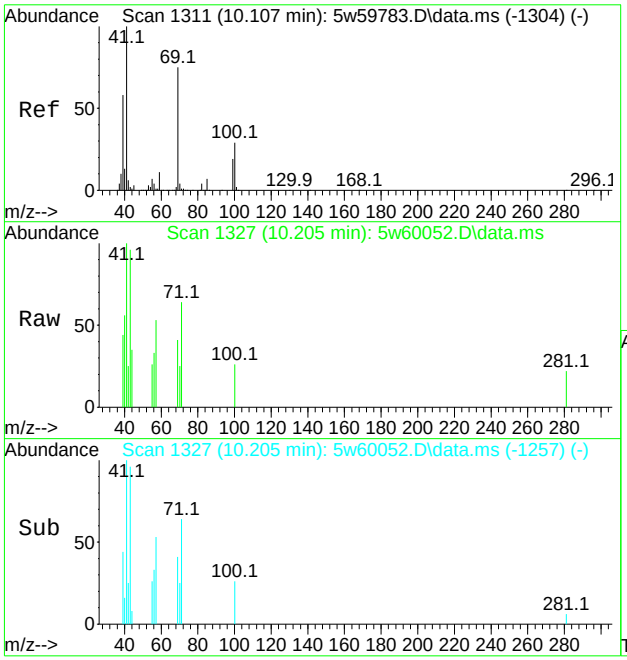


#44
ETHYL ACETATE
Concen: 0.5951 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.062 min
Lab File: 5w60052.D
Acq: 26 Nov 2025 12:03 am

Tgt Ion: 61 Resp: 7971

Ion	Ratio	Lower	Upper
61	100		
43	624.3	560.5	620.5#
88	17.9	4.5	64.5

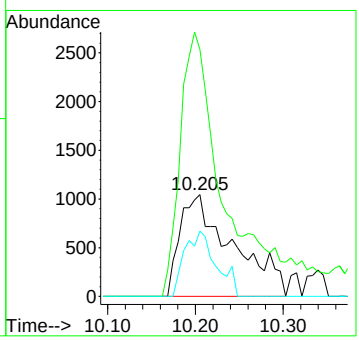




#63
METHYL METHACRYLATE
Concen: 0.1030 PPBV
RT: 10.205 min Scan# 1327
Delta R.T. 0.098 min
Lab File: 5w60052.D
Acq: 26 Nov 2025 12:03 am

Tgt Ion: 69 Resp: 4357

Ion	Ratio	Lower	Upper
69	100		
41	243.5	95.3	155.3#
100	38.2	6.3	66.3



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

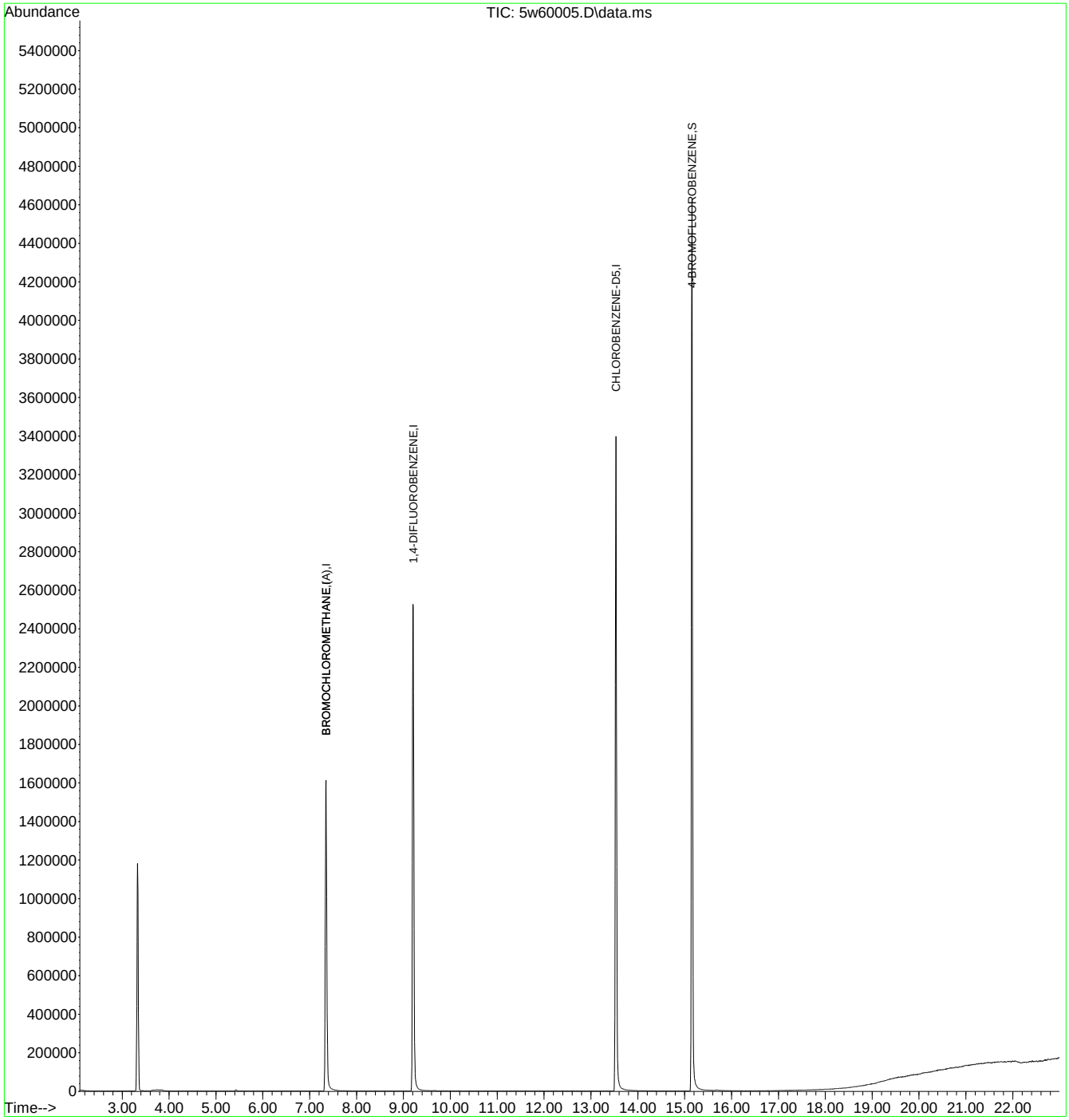
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	551412	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2422137	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1175032	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	553790	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1558462	10.62	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.20%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60038.D
Acq On : 25 Nov 2025 3:07 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2302,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:46:36 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

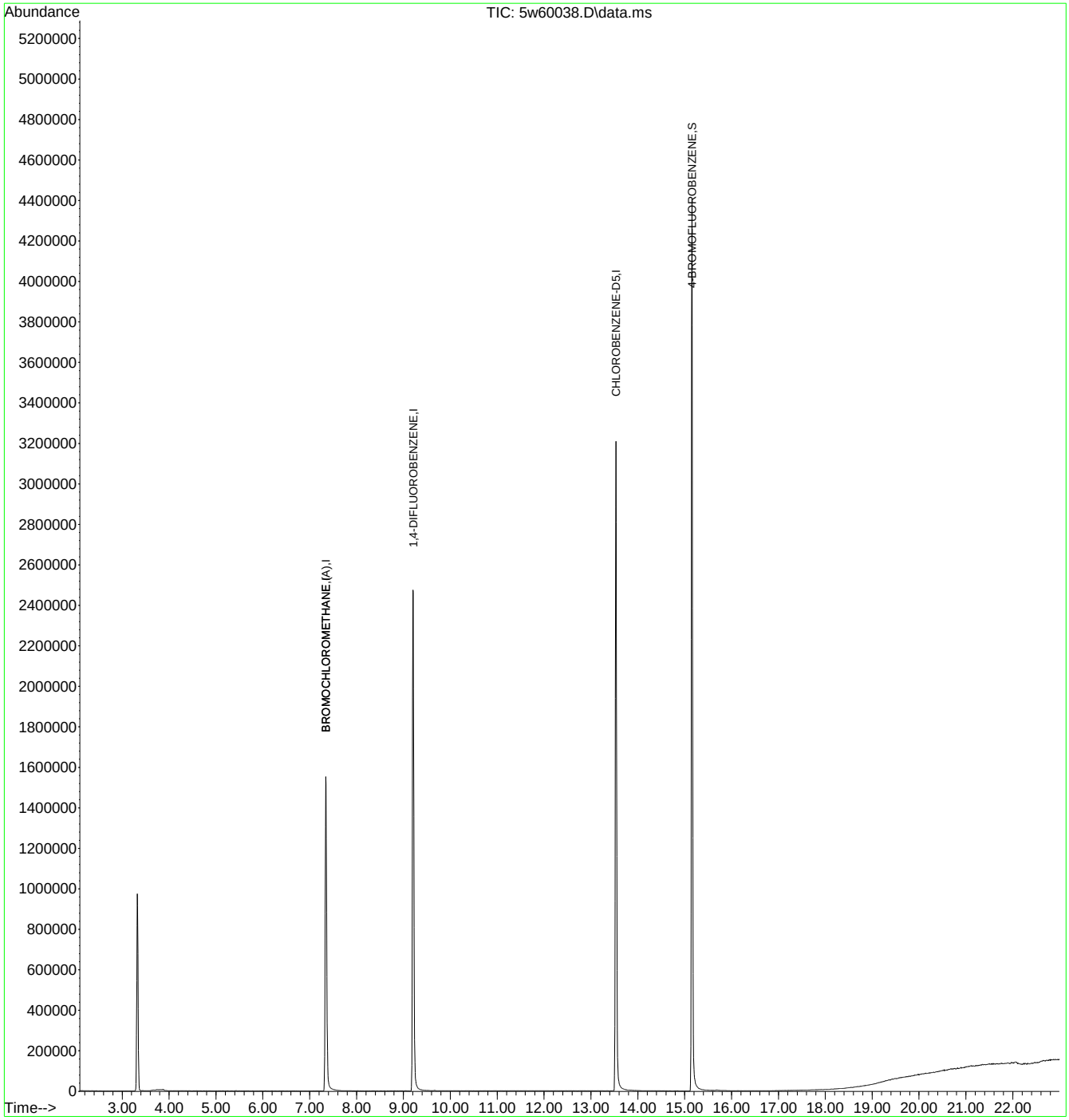
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.342	128	534553	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.208	114	2339544	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1127485	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.342	128	536453	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1501598	10.66	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.60%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60038.D
Acq On : 25 Nov 2025 3:07 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2302,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:46:36 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

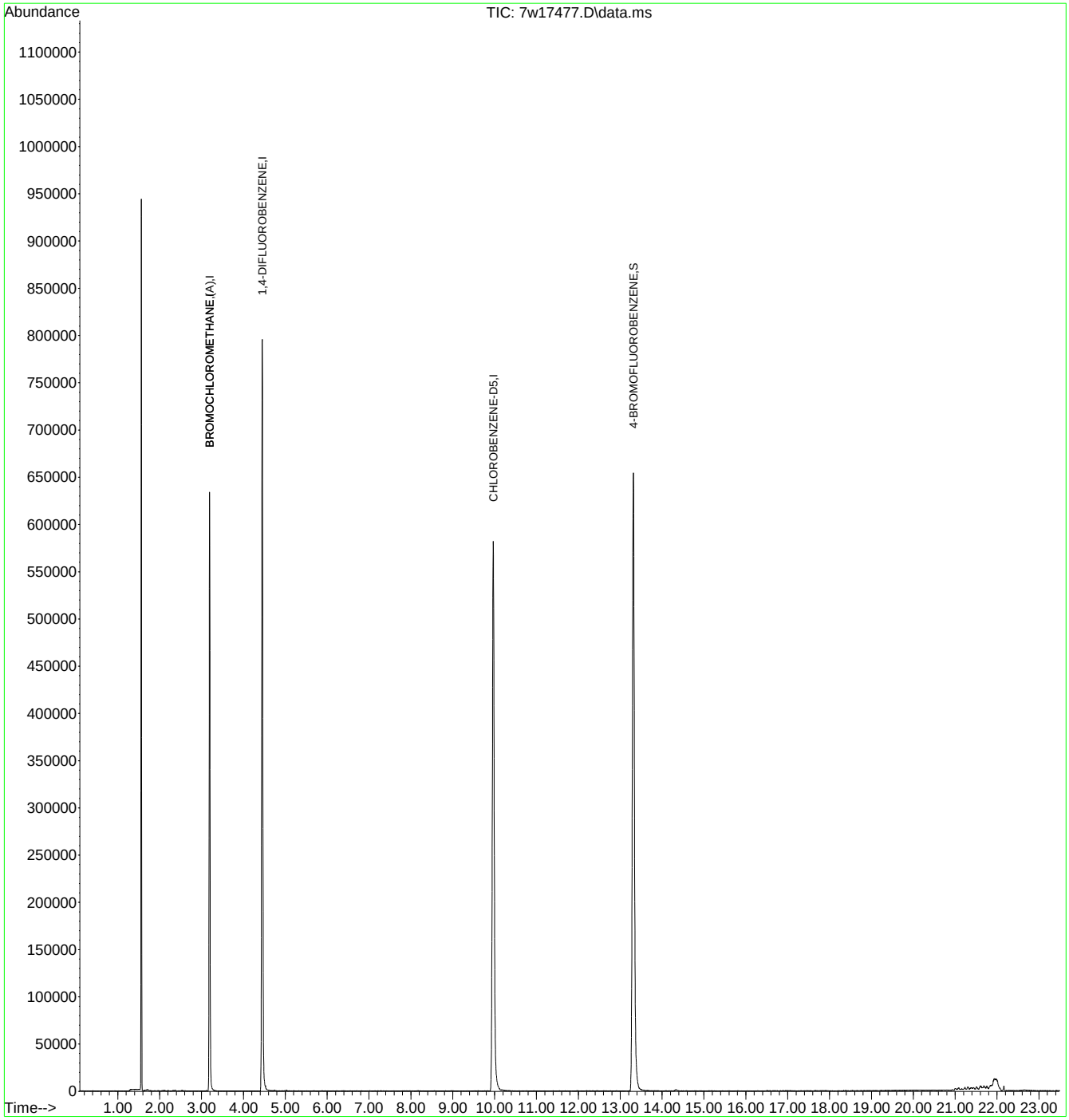
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	128174	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	642694	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	594320	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	128174	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	451678	9.44	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

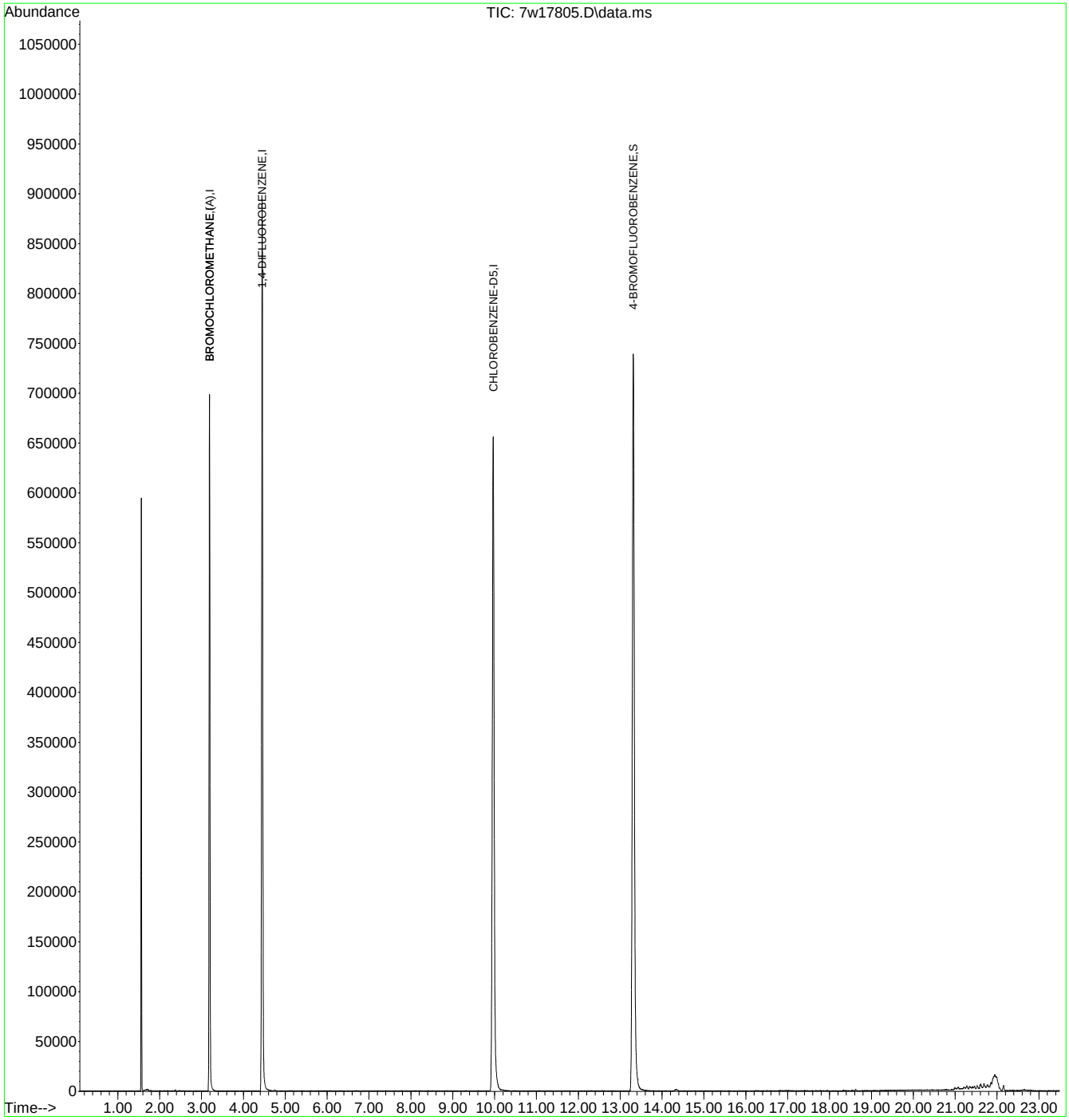
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	141808	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	703798	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	657479	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	141808	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	501563	9.47	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	477635	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2106400	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1093252	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	477635	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1356906	9.93	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.30%			
Target Compounds						Qvalue
2) FREON 115	3.378	119	240600	7.3523	PPBV	99
3) FREON 152A	3.451	65	340897	9.6234	PPBV	96
4) CHLORODIFLUOROMETHANE	3.482	67	173657	11.7195	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.512	116	869018	11.7123	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.555	85	1610737	11.7838	PPBV	98
7) PROPYLENE	3.506	41	350050	9.5479	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1227255	11.0863	PPBV	98
9) FREON 114	3.739	85	1541030	12.3325	PPBV	100
10) CHLOROMETHANE	3.671	52	145917	9.7203	PPBV	97
11) VINYL CHLORIDE	3.824	62	498599	10.7753	PPBV	100
12) 1,3-BUTADIENE	3.916	54	301164	10.8112	PPBV	99
13) n-BUTANE	3.953	43	488858	10.7389	PPBV	98
14) BROMOMETHANE	4.112	94	569388	11.5706	PPBV	100
15) CHLOROETHANE	4.234	64	221549	9.8142	PPBV	99
16) DICHLOROFLUOROMETHANE	4.295	67	1109461	11.2826	PPBV	99
17) ACETONITRILE	4.485	41	262953	10.1114	PPBV	100
18) ACROLEIN	4.577	56	156039	10.5589	PPBV	98
19) FREON 123	4.595	83	1275447	11.2118	PPBV #	71
20) FREON 123A	4.638	117	772471	11.8230	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.797	101	1369754	11.7315	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	890471	9.5073	PPBV	99
23) ACETONE	4.681	58	190458	10.1670	PPBV	94
24) PENTANE	5.078	42	438928	9.0202	PPBV	99
25) IODOMETHANE	5.256	142	1749912	12.0245	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.323	96	543628	10.6119	PPBV	93
27) CARBON DISULFIDE	5.678	76	1448112	10.7882	PPBV	98
28) ETHANOL	4.326	45	178411	11.3698	PPBV	99
29) BROMOETHENE	4.485	106	577429	11.8977	PPBV	100
30) ACRYLONITRILE	5.048	52	316874	9.9950	PPBV	99
31) METHYLENE CHLORIDE	5.427	84	467883	9.7626	PPBV	92
32) 3-CHLOROPROPENE	5.525	76	226892	9.8346	PPBV	88
33) FREON 113	5.647	151	974773	11.4357	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	548163	10.2055	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.384	59	972270	10.1517	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.479	73	1396961	10.3330	PPBV	97
37) TETRAHYDROFURAN	7.856	72	210812	11.3678	PPBV	91
38) HEXANE	7.385	57	756923	9.9262	PPBV	99
39) VINYL ACETATE	6.571	86	87754	11.3789	PPBV #	75
40) 1,1-DICHLOROETHANE	6.424	63	953472	9.6741	PPBV	99
41) METHYL ETHYL KETONE	6.798	72	230629	12.5008	PPBV #	84
42) cis-1,2-DICHLOROETHYLENE	7.201	96	583866	9.9734	PPBV	94
43) DIISOPROPYL ETHER	7.391	59	237718	11.8560	PPBV	94
44) ETHYL ACETATE	7.422	61	176619	12.5284	PPBV #	1
45) METHYL ACRYLATE	7.409	55	948114	12.5543	PPBV	98
46) CHLOROFORM	7.477	83	1211542	11.4081	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	866235	10.0371	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1247024	11.2579	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1372682	11.4094	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	801218	10.8575	PPBV		99
52)	BENZENE	8.853	78	1557974	11.0402	PPBV		98
53)	CYCLOHEXANE	9.104	84	613975	10.8904	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.349	71	306612	10.7626	PPBV		92
55)	TRICHLOROETHYLENE	9.887	95	797832	11.0985	PPBV		100
56)	1,2-DICHLOROPROPANE	9.648	63	593320	9.0562	PPBV		99
57)	DIBROMOMETHANE	9.630	174	871066	10.8406	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	1136650	11.1015	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1381772	11.0855	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2319907	10.3884	PPBV		100
61)	1,4-DIOXANE	9.899	88	350755	10.8965	PPBV		94
62)	HEPTANE	10.181	43	766095	9.4348	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	517632	11.2549	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.792	58	471710	11.3302	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1017497	10.1371	PPBV		95
66)	TOLUENE	11.716	92	1121935	10.6362	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	902626	10.4980	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	919315	9.7025	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	631574	11.0269	PPBV		100
71)	2-HEXANONE	12.010	58	684568	11.9712	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	912136	12.0768	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	963989	12.9264	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.144	129	1579609	12.2672	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1280981	12.7862	PPBV		100
76)	OCTANE	12.738	43	1084136	10.4396	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1018658	12.4242	PPBV		99
78)	CHLOROBENZENE	13.582	112	1637921	11.9899	PPBV		100
79)	ETHYLBENZENE	13.980	91	2539898	12.1204	PPBV		100
80)	m,p-XYLENE	14.169	106	1940190	23.4941	PPBV		99
81)	o-XYLENE	14.677	106	958925	12.4007	PPBV		100
82)	STYRENE	14.567	104	1511270	12.5221	PPBV		99
83)	NONANE	14.928	43	1114955	10.6142	PPBV		97
84)	BROMOFORM	14.243	173	1714310	13.4966	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1674189	12.4499	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1150923	10.6445	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2755878	11.6391	PPBV		100
89)	BROMOBENZENE	15.375	77	1347534	10.9390	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	747013	11.3913	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	769370	12.1202	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2824547	13.0416	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2342515	11.6338	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1204069	12.1371	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	534840	13.0829	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2503827	13.3251	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1863396	12.9729	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2290925	13.2334	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1868035	12.0955	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	634126	12.2457	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2573220	12.9495	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	788089	13.4263	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1788603	12.4134	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	738576	12.8477	PPBV		99
105)	HEXACHLOROETHANE	17.607	117	1125990	11.3634	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1828537	13.6527	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1796737	13.4571	PPBV		100
108)	NAPHTHALENE	18.660	128	3954766	13.5904	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	2952896	10.2236	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

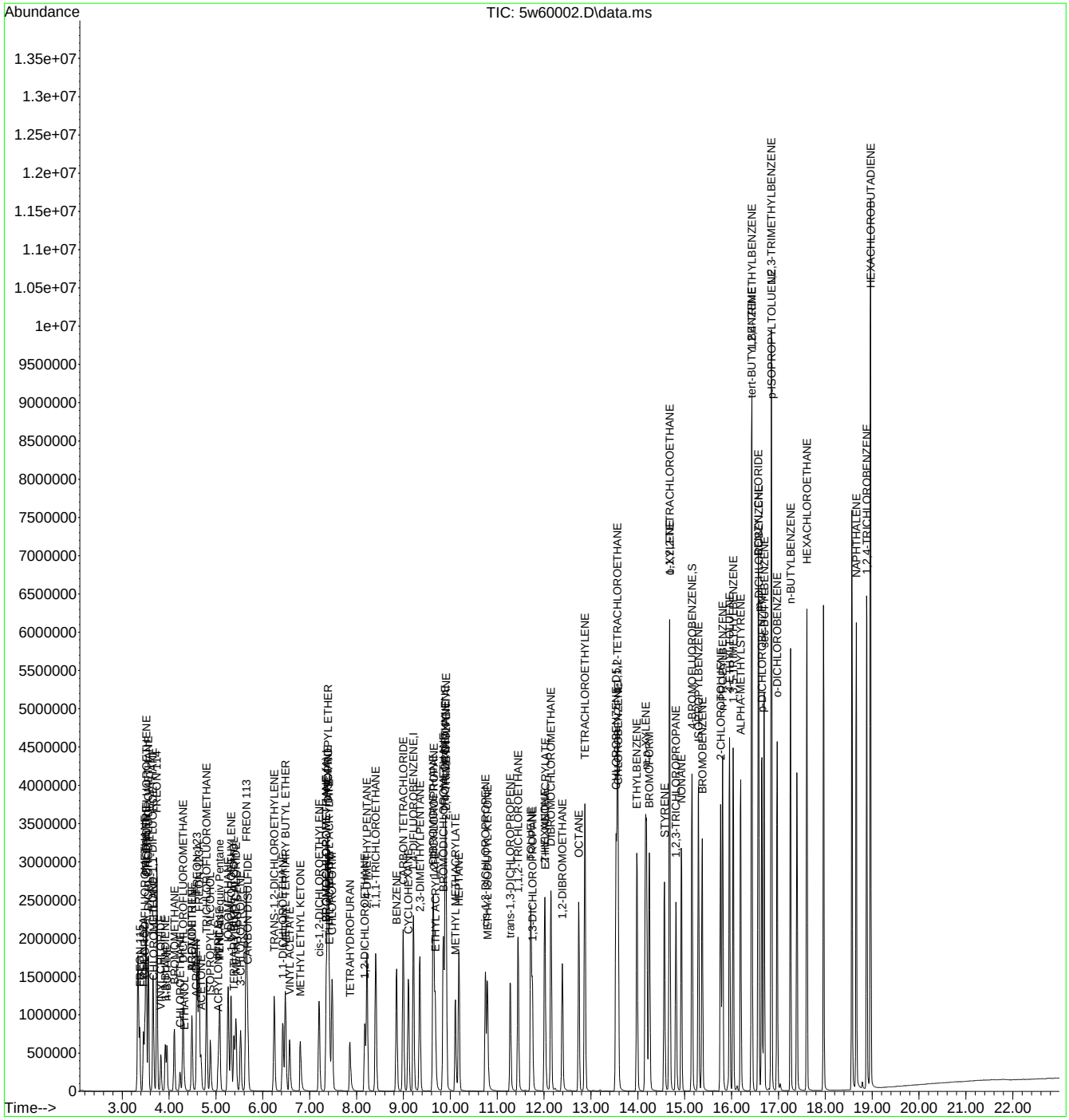
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	479179	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2114849	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1129270	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	479285	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1394712	9.88	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.80%			
Target Compounds						Qvalue
2) FREON 115	3.359	119	349972	10.6600	PPBV	100
3) FREON 152A	3.439	65	316320	8.9009	PPBV	96
4) CHLORODIFLUOROMETHANE	3.470	67	162018	10.8988	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.500	116	828169	11.1258	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.543	85	1534563	11.1904	PPBV	98
7) PROPYLENE	3.494	41	329492	8.9582	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	1195554	10.7651	PPBV	98
9) FREON 114	3.726	85	1510187	12.0467	PPBV	99
10) CHLOROMETHANE	3.659	52	144738	9.6107	PPBV	99
11) VINYL CHLORIDE	3.812	62	495530	10.6745	PPBV	99
12) 1,3-BUTADIENE	3.904	54	292494	10.4661	PPBV	98
13) n-BUTANE	3.941	43	458598	10.0417	PPBV	98
14) BROMOMETHANE	4.100	94	567948	11.5041	PPBV	99
15) CHLOROETHANE	4.216	64	222236	9.8129	PPBV	98
16) DICHLOROFLUOROMETHANE	4.283	67	1068372	10.8297	PPBV	99
17) ACETONITRILE	4.473	41	251312	9.6326	PPBV	99
18) ACROLEIN	4.565	56	155502	10.4886	PPBV	98
19) FREON 123	4.583	83	1272619	11.1509	PPBV	71
20) FREON 123A	4.626	117	764670	11.6659	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.785	101	1500156	12.8070	PPBV	100
22) ISOPROPYL ALCOHOL	4.864	45	862773	9.1819	PPBV	98
23) ACETONE	4.669	58	186096	9.9021	PPBV	94
24) PENTANE	5.066	42	428867	8.7850	PPBV	99
25) IODOMETHANE	5.250	142	1697179	11.6246	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.311	96	525383	10.2227	PPBV	93
27) CARBON DISULFIDE	5.666	76	1428932	10.6111	PPBV	98
28) ETHANOL	4.314	45	168540	10.7061	PPBV	99
29) BROMOETHENE	4.473	106	568162	11.6690	PPBV	100
30) ACRYLONITRILE	5.036	52	305406	9.6023	PPBV	99
31) METHYLENE CHLORIDE	5.415	84	455621	9.4761	PPBV	92
32) 3-CHLOROPROPENE	5.513	76	224082	9.6815	PPBV	87
33) FREON 113	5.635	151	976601	11.4203	PPBV	96
34) TRANS-1,2-DICHLOROETHY...	6.235	96	544122	10.0977	PPBV	92
35) TERTIARY BUTYL ALCOHOL	5.372	59	930895	9.6884	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1388096	10.2344	PPBV	97
37) TETRAHYDROFURAN	7.850	72	205030	11.0204	PPBV	90
38) HEXANE	7.379	57	739090	9.6611	PPBV	99
39) VINYL ACETATE	6.559	86	87525	11.3126	PPBV #	70
40) 1,1-DICHLOROETHANE	6.418	63	946262	9.5700	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	225201	12.1673	PPBV #	82
42) cis-1,2-DICHLOROETHYLENE	7.195	96	583002	9.9265	PPBV	94
43) DIISOPROPYL ETHER	7.385	59	234562	11.6609	PPBV	94
44) ETHYL ACETATE	7.415	61	171373	12.1171	PPBV #	1
45) METHYL ACRYLATE	7.403	55	931131	12.2897	PPBV	98
46) CHLOROFORM	7.471	83	1190185	11.1709	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.217	57	848788	9.8032	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.407	97	1227800	11.0486	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.988	117	1379991	11.4332	PPBV		100
50)	1,2-DICHLOROETHANE	8.168	62	792023	10.6983	PPBV		100
52)	BENZENE	8.847	78	1523228	10.7509	PPBV		99
53)	CYCLOHEXANE	9.104	84	604407	10.6779	PPBV		92
54)	2,3-DIMETHYLPENTANE	9.343	71	304244	10.6368	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	800597	11.0925	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	596490	9.0682	PPBV		99
57)	DIBROMOMETHANE	9.630	174	889311	11.0234	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1144267	11.1312	PPBV		99
59)	BROMODICHLOROMETHANE	9.844	83	1392832	11.1295	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.905	57	2373633	10.5865	PPBV		100
61)	1,4-DIOXANE	9.893	88	356621	11.0344	PPBV	#	75
62)	HEPTANE	10.181	43	763072	9.3600	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	518879	11.2369	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	478608	11.4499	PPBV		96
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1029199	10.2127	PPBV		95
66)	TOLUENE	11.716	92	1141793	10.7812	PPBV		99
67)	1,3-DICHLOROPROPANE	11.747	76	915403	10.6041	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	914117	9.6091	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.441	83	642885	11.1796	PPBV		99
71)	2-HEXANONE	12.010	58	687139	11.6329	PPBV		98
72)	ETHYL METHACRYLATE	12.022	69	924260	11.8470	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	965929	12.5393	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.144	129	1569979	11.8035	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1268536	12.2581	PPBV		99
76)	OCTANE	12.738	43	1078013	10.0496	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1040956	12.2912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1676579	11.8814	PPBV		99
79)	ETHYLBENZENE	13.980	91	2558019	11.8175	PPBV		100
80)	m,p-XYLENE	14.169	106	1994813	23.3851	PPBV		99
81)	o-XYLENE	14.677	106	961640	12.0392	PPBV		100
82)	STYRENE	14.567	104	1523708	12.2225	PPBV		99
83)	NONANE	14.928	43	1112505	10.2531	PPBV		98
84)	BROMOFORM	14.249	173	1725817	13.1538	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1686640	12.1424	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1146826	10.2683	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2846838	11.6398	PPBV		100
89)	BROMOBENZENE	15.375	77	1373208	10.7919	PPBV		97
90)	2-CHLOROTOLUENE	15.766	126	767010	11.3232	PPBV		99
91)	n-PROPYLBENZENE	15.809	120	793940	12.1083	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2873727	12.8454	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2364619	11.3690	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1214522	11.8520	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	529036	12.5282	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2518685	12.9767	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1900758	12.8109	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	2352253	13.1542	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1890803	11.8524	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	651887	12.1872	PPBV		98
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2595477	12.6449	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	801855	13.2251	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1781932	11.9726	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	733212	12.3476	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	1190740	11.6336	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1877270	13.5695	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1809449	13.1201	PPBV		100
108)	NAPHTHALENE	18.660	128	4030657	13.4094	PPBV		100
110)	TVHC as equiv Pentane	5.066	TIC	2846840	9.8225	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

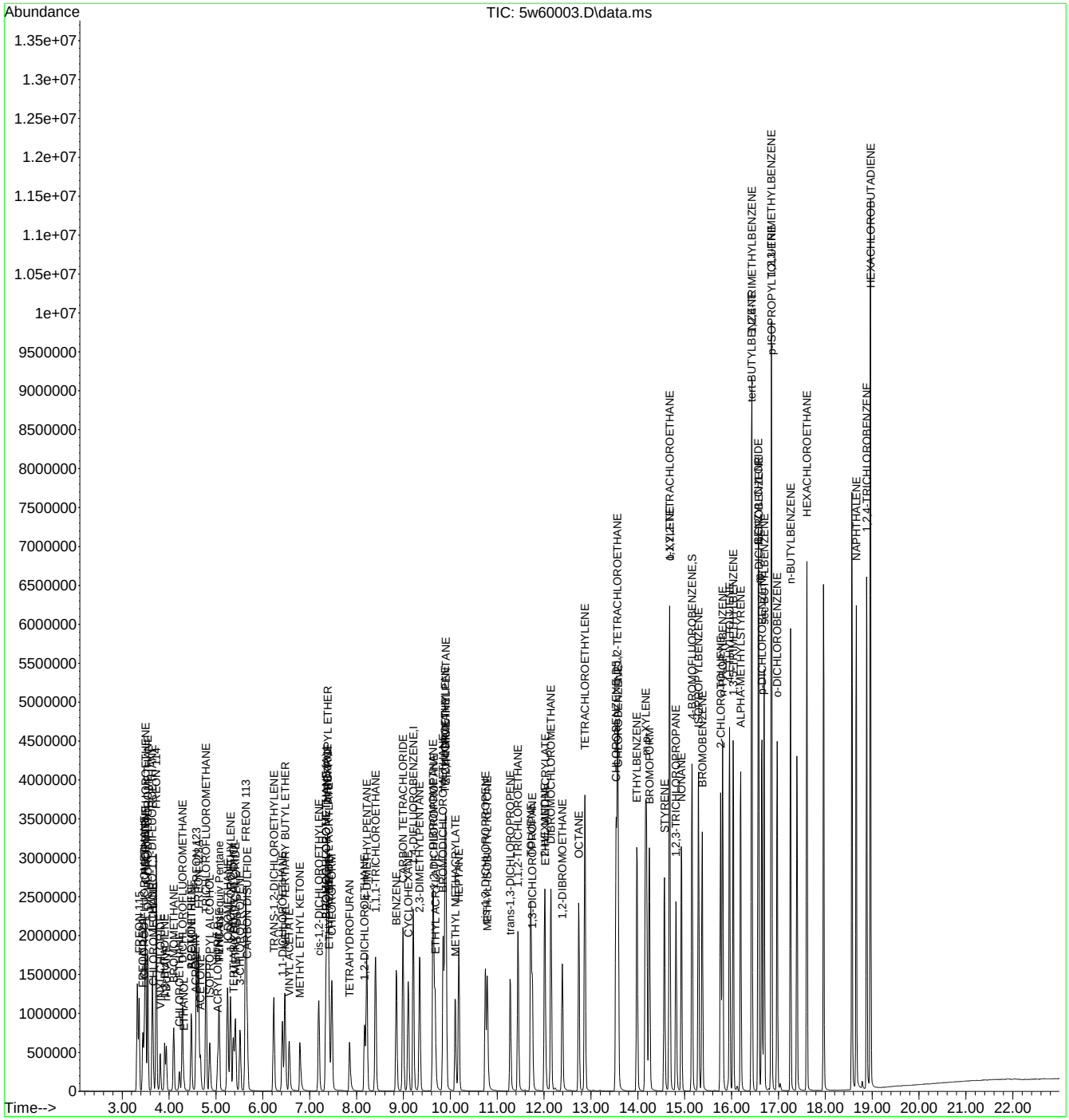
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60034.D
Acq On : 25 Nov 2025 12:07 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	484085	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2150988	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1139142	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	484085	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1404001	9.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	362498	10.9297	PPBV	99
3) FREON 152A	3.451	65	344307	9.5902	PPBV	95
4) CHLORODIFLUOROMETHANE	3.482	67	169484	11.2855	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.512	116	864260	11.4930	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.555	85	1643074	11.8602	PPBV	99
7) PROPYLENE	3.506	41	347766	9.3592	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1203259	10.7247	PPBV	97
9) FREON 114	3.739	85	1537721	12.1420	PPBV	100
10) CHLOROMETHANE	3.671	52	139880	9.1940	PPBV	94
11) VINYL CHLORIDE	3.824	62	485976	10.3626	PPBV	99
12) 1,3-BUTADIENE	3.916	54	279018	9.8828	PPBV	97
13) n-BUTANE	3.953	43	430330	9.3273	PPBV	97
14) BROMOMETHANE	4.112	94	555231	11.1325	PPBV	100
15) CHLOROETHANE	4.228	64	225243	9.8449	PPBV	97
16) DICHLOROFLUOROMETHANE	4.295	67	1096640	11.0036	PPBV	98
17) ACETONITRILE	4.485	41	237947	9.0279	PPBV	100
18) ACROLEIN	4.577	56	151817	10.1363	PPBV	97
19) FREON 123	4.595	83	1282769	11.1259	PPBV #	71
20) FREON 123A	4.638	117	774782	11.7004	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.797	101	1517876	12.8270	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	898541	9.4657	PPBV	97
23) ACETONE	4.681	58	192579	10.1432	PPBV	88
24) PENTANE	5.078	42	448268	9.0894	PPBV	98
25) IODOMETHANE	5.256	142	1731553	11.7398	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	535189	10.3080	PPBV	95
27) CARBON DISULFIDE	5.678	76	1517752	11.1564	PPBV	97
28) ETHANOL	4.326	45	166716	10.4829	PPBV	100
29) BROMOETHENE	4.485	106	561569	11.4167	PPBV	100
30) ACRYLONITRILE	5.048	52	321264	9.9985	PPBV	100
31) METHYLENE CHLORIDE	5.427	84	481494	9.9127	PPBV	92
32) 3-CHLOROPROPENE	5.525	76	238315	10.1921	PPBV	85
33) FREON 113	5.641	151	994431	11.5109	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	556079	10.2150	PPBV	95
35) TERTIARY BUTYL ALCOHOL	5.378	59	982110	10.1178	PPBV	98
36) METHYL TERTIARY BUTYL ...	6.479	73	1423871	10.3918	PPBV	97
37) TETRAHYDROFURAN	7.856	72	218090	11.6036	PPBV	89
38) HEXANE	7.385	57	792935	10.2599	PPBV	97
39) VINYL ACETATE	6.571	86	93101	11.9113	PPBV #	68
40) 1,1-DICHLOROETHANE	6.424	63	998936	10.0003	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	233701	12.4986	PPBV #	81
42) cis-1,2-DICHLOROETHYLENE	7.201	96	585203	9.8630	PPBV	96
43) DIISOPROPYL ETHER	7.391	59	248916	12.2491	PPBV #	91
44) ETHYL ACETATE	7.421	61	181811	12.7249	PPBV #	1
45) METHYL ACRYLATE	7.409	55	991497	12.9538	PPBV	99
46) CHLOROFORM	7.477	83	1225259	11.3836	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	901149	10.3025	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1261731	11.2389	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60034.D
Acq On : 25 Nov 2025 12:07 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1381040	11.3260	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	807613	10.7983	PPBV		100
52)	BENZENE	8.853	78	1600693	11.1078	PPBV		99
53)	CYCLOHEXANE	9.110	84	641053	11.1350	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.349	71	318963	10.9640	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	819199	11.1595	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	638796	9.5482	PPBV		100
57)	DIBROMOMETHANE	9.630	174	887578	10.8171	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	1180705	11.2927	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1417887	11.1394	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2469033	10.8270	PPBV		99
61)	1,4-DIOXANE	9.899	88	365323	11.1138	PPBV		95
62)	HEPTANE	10.187	43	782534	9.4375	PPBV		95
63)	METHYL METHACRYLATE	10.107	69	531850	11.3243	PPBV		90
64)	METHYL ISOBUTYL KETONE	10.792	58	496088	11.6687	PPBV		94
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1056435	10.3069	PPBV		94
66)	TOLUENE	11.716	92	1165171	10.8171	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	951822	10.8407	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	949179	9.8100	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	662905	11.3340	PPBV		99
71)	2-HEXANONE	12.010	58	720507	12.0921	PPBV		95
72)	ETHYL METHACRYLATE	12.022	69	960007	12.1986	PPBV		94
73)	TETRACHLOROETHYLENE	12.872	164	970774	12.4930	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.150	129	1596891	11.9018	PPBV		99
75)	1,2-DIBROMOETHANE	12.389	107	1315184	12.5987	PPBV		100
76)	OCTANE	12.738	43	1110659	10.2642	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1033100	12.0927	PPBV		98
78)	CHLOROBENZENE	13.582	112	1693185	11.8951	PPBV		100
79)	ETHYLBENZENE	13.980	91	2607059	11.9397	PPBV		100
80)	m,p-XYLENE	14.169	106	1992673	23.1575	PPBV		98
81)	o-XYLENE	14.677	106	1005896	12.4841	PPBV		100
82)	STYRENE	14.567	104	1573596	12.5132	PPBV		99
83)	NONANE	14.928	43	1184405	10.8211	PPBV		96
84)	BROMOFORM	14.249	173	1701357	12.8550	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1790494	12.7784	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1210708	10.7464	PPBV		98
88)	ISOPROPYLBENZENE	15.295	105	2869874	11.6323	PPBV		100
89)	BROMOBENZENE	15.374	77	1418962	11.0548	PPBV		99
90)	2-CHLOROTOLUENE	15.766	126	769093	11.2555	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	802179	12.1279	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2923947	12.9567	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2462273	11.7359	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1230649	11.9053	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	531958	12.4882	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2529368	12.9188	PPBV		99
97)	m-DICHLOROBENZENE	16.574	146	1906654	12.7393	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2432056	13.4826	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	1908604	11.8603	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	662519	12.2786	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2652149	12.8090	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	811157	13.2626	PPBV		100
103)	o-DICHLOROBENZENE	16.971	146	1825433	12.1586	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	751238	12.5415	PPBV		97
105)	HEXACHLOROETHANE	17.607	117	1250593	12.1125	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1868816	13.3913	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1865860	13.4118	PPBV		100
108)	NAPHTHALENE	18.660	128	4170256	13.7536	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	3005367	10.2667	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60034.D
Acq On : 25 Nov 2025 12:07 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

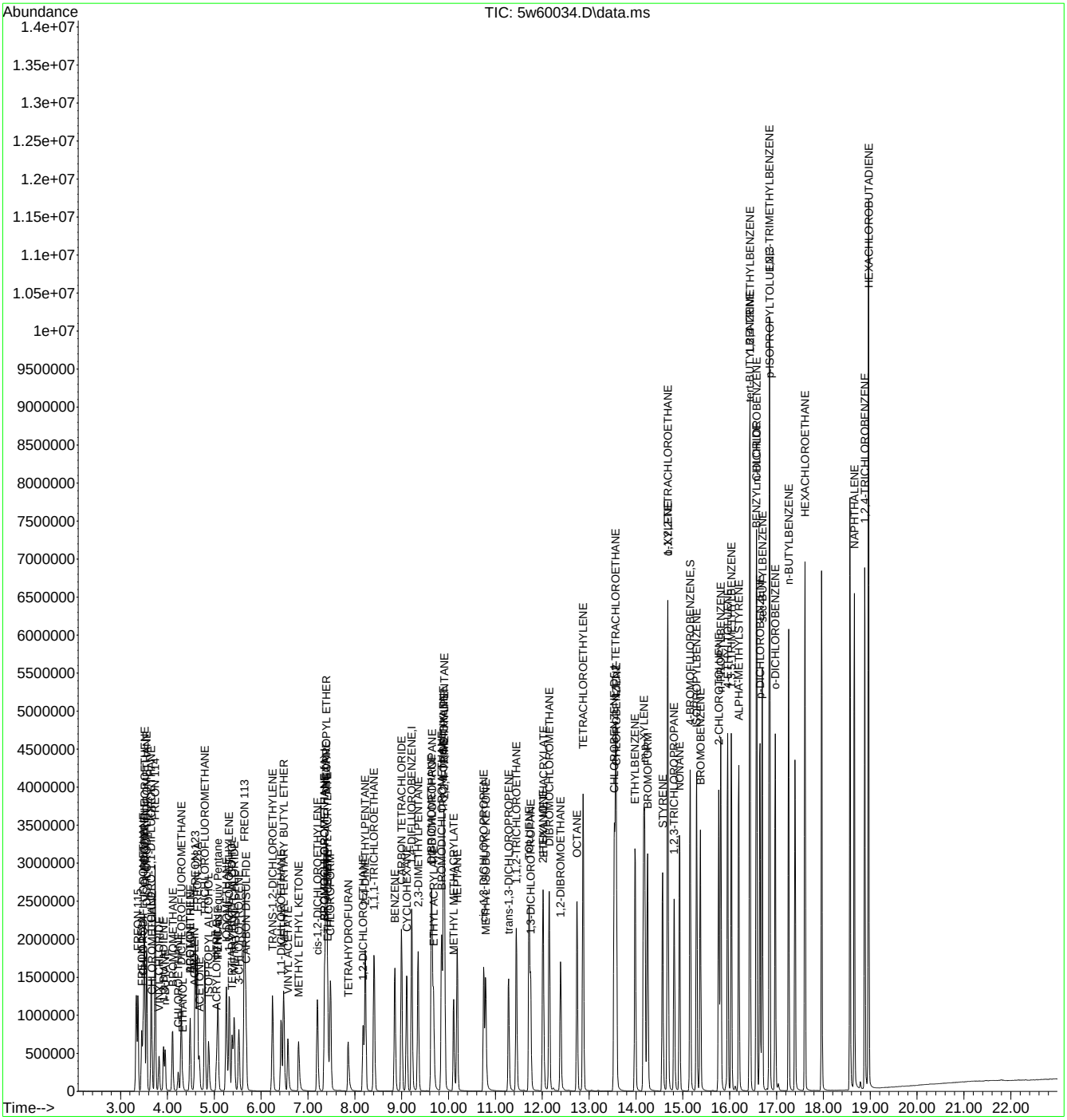
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60034.D
Acq On : 25 Nov 2025 12:07 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60035.D
Acq On : 25 Nov 2025 12:44 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:24:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	491831	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2169558	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1169223	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	491831	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1451603	9.94	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.40%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	386614	11.4732	PPBV	100
3) FREON 152A	3.439	65	339841	9.3167	PPBV	94
4) CHLORODIFLUOROMETHANE	3.475	67	168374	11.0350	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.500	116	868726	11.3705	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.549	85	1620008	11.5096	PPBV	99
7) PROPYLENE	3.494	41	351302	9.3054	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1226272	10.7577	PPBV	97
9) FREON 114	3.726	85	1576213	12.2499	PPBV	100
10) CHLOROMETHANE	3.659	52	150386	9.7288	PPBV	97
11) VINYL CHLORIDE	3.812	62	516635	10.8428	PPBV	100
12) 1,3-BUTADIENE	3.910	54	299098	10.4271	PPBV	96
13) n-BUTANE	3.940	43	464929	9.9185	PPBV	98
14) BROMOMETHANE	4.099	94	572206	11.2922	PPBV	100
15) CHLOROETHANE	4.222	64	222233	9.5603	PPBV	98
16) DICHLOROFLUOROMETHANE	4.283	67	1108920	10.9516	PPBV	99
17) ACETONITRILE	4.473	41	253669	9.4729	PPBV	100
18) ACROLEIN	4.564	56	161532	10.6151	PPBV	96
19) FREON 123	4.589	83	1330387	11.3572	PPBV	71
20) FREON 123A	4.626	117	794768	11.8132	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.791	101	1516778	12.6158	PPBV	100
22) ISOPROPYL ALCOHOL	4.864	45	906498	9.3991	PPBV	97
23) ACETONE	4.668	58	199702	10.3527	PPBV	89
24) PENTANE	5.066	42	448077	8.9424	PPBV	99
25) IODOMETHANE	5.250	142	1749749	11.6764	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.311	96	548399	10.3961	PPBV	94
27) CARBON DISULFIDE	5.666	76	1503869	10.8803	PPBV	97
28) ETHANOL	4.314	45	171715	10.6272	PPBV	99
29) BROMOETHENE	4.479	106	582791	11.6616	PPBV	100
30) ACRYLONITRILE	5.035	52	322974	9.8934	PPBV	99
31) METHYLENE CHLORIDE	5.415	84	479947	9.7252	PPBV	91
32) 3-CHLOROPROPENE	5.519	76	234972	9.8909	PPBV	85
33) FREON 113	5.635	151	992723	11.3102	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.235	96	573616	10.3712	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.366	59	997645	10.1160	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.467	73	1430696	10.2771	PPBV	97
37) TETRAHYDROFURAN	7.850	72	221651	11.6073	PPBV	89
38) HEXANE	7.379	57	790670	10.0695	PPBV	97
39) VINYL ACETATE	6.559	86	91214	11.4861	PPBV #	69
40) 1,1-DICHLOROETHANE	6.418	63	993867	9.7928	PPBV	100
41) METHYL ETHYL KETONE	6.785	72	230800	12.1490	PPBV #	88
42) cis-1,2-DICHLOROETHYLENE	7.195	96	597799	9.9166	PPBV	94
43) DIISOPROPYL ETHER	7.385	59	247919	12.0079	PPBV	92
44) ETHYL ACETATE	7.409	61	182217	12.5524	PPBV #	1
45) METHYL ACRYLATE	7.397	55	981019	12.6151	PPBV	98
46) CHLOROFORM	7.470	83	1236471	11.3068	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.217	57	914159	10.2866	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1275540	11.1830	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60035.D
Acq On : 25 Nov 2025 12:44 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:24:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1390482	11.2238	PPBV		100
50)	1,2-DICHLOROETHANE	8.168	62	827529	10.8903	PPBV		100
52)	BENZENE	8.847	78	1611956	11.0902	PPBV		98
53)	CYCLOHEXANE	9.104	84	641181	11.0419	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.348	71	316741	10.7945	PPBV		95
55)	TRICHLOROETHYLENE	9.887	95	825347	11.1471	PPBV		100
56)	1,2-DICHLOROPROPANE	9.648	63	638175	9.4572	PPBV		100
57)	DIBROMOMETHANE	9.630	174	897455	10.8439	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	1191314	11.2967	PPBV		99
59)	BROMODICHLOROMETHANE	9.844	83	1432495	11.1578	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.905	57	2470105	10.7390	PPBV		99
61)	1,4-DIOXANE	9.893	88	368012	11.0998	PPBV	#	72
62)	HEPTANE	10.180	43	790578	9.4529	PPBV		95
63)	METHYL METHACRYLATE	10.107	69	534295	11.2790	PPBV		91
64)	METHYL ISOBUTYL KETONE	10.786	58	501182	11.6876	PPBV		94
65)	cis-1,3-DICHLOROPROPENE	10.749	75	1067971	10.3302	PPBV		93
66)	TOLUENE	11.716	92	1202812	11.0710	PPBV		100
67)	1,3-DICHLOROPROPANE	11.747	76	963306	10.8776	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	968944	9.9286	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.441	83	678703	11.5048	PPBV		100
71)	2-HEXANONE	12.010	58	727210	11.8906	PPBV		95
72)	ETHYL METHACRYLATE	12.022	69	966272	11.9623	PPBV		94
73)	TETRACHLOROETHYLENE	12.872	164	953780	11.9585	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.144	129	1629056	11.8292	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1325344	12.3694	PPBV		100
76)	OCTANE	12.738	43	1116257	10.0505	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1056900	12.0530	PPBV		99
78)	CHLOROBENZENE	13.582	112	1720042	11.7729	PPBV		100
79)	ETHYLBENZENE	13.980	91	2650060	11.8244	PPBV		100
80)	m,p-XYLENE	14.181	106	2074669	23.4901	PPBV		99
81)	o-XYLENE	14.677	106	996166	12.0453	PPBV		100
82)	STYRENE	14.567	104	1575002	12.2022	PPBV		99
83)	NONANE	14.928	43	1179586	10.4998	PPBV		96
84)	BROMOFORM	14.249	173	1764343	12.9879	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1779989	12.3766	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1184288	10.2414	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2963085	11.7011	PPBV		100
89)	BROMOBENZENE	15.374	77	1446870	10.9823	PPBV		98
90)	2-CHLOROTOLUENE	15.766	126	780779	11.1326	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	816312	12.0241	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2929241	12.6462	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2478011	11.5071	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1273837	12.0060	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	570806	13.0554	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2672336	13.2978	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1976541	12.8665	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2490736	13.4527	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1966810	11.9076	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	682755	12.3281	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2669643	12.5618	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	820710	13.0736	PPBV		100
103)	o-DICHLOROBENZENE	16.971	146	1848062	11.9927	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	755851	12.2939	PPBV		97
105)	HEXACHLOROETHANE	17.607	117	1278112	12.0605	PPBV		100
106)	HEXACHLOROBUTADIENE	18.965	225	1912814	13.3540	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1842979	12.9066	PPBV		100
108)	NAPHTHALENE	18.660	128	4122703	13.2469	PPBV		100
110)	TVHC as equiv Pentane	5.066	TIC	3065036	10.3056	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60035.D
Acq On : 25 Nov 2025 12:44 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:24:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

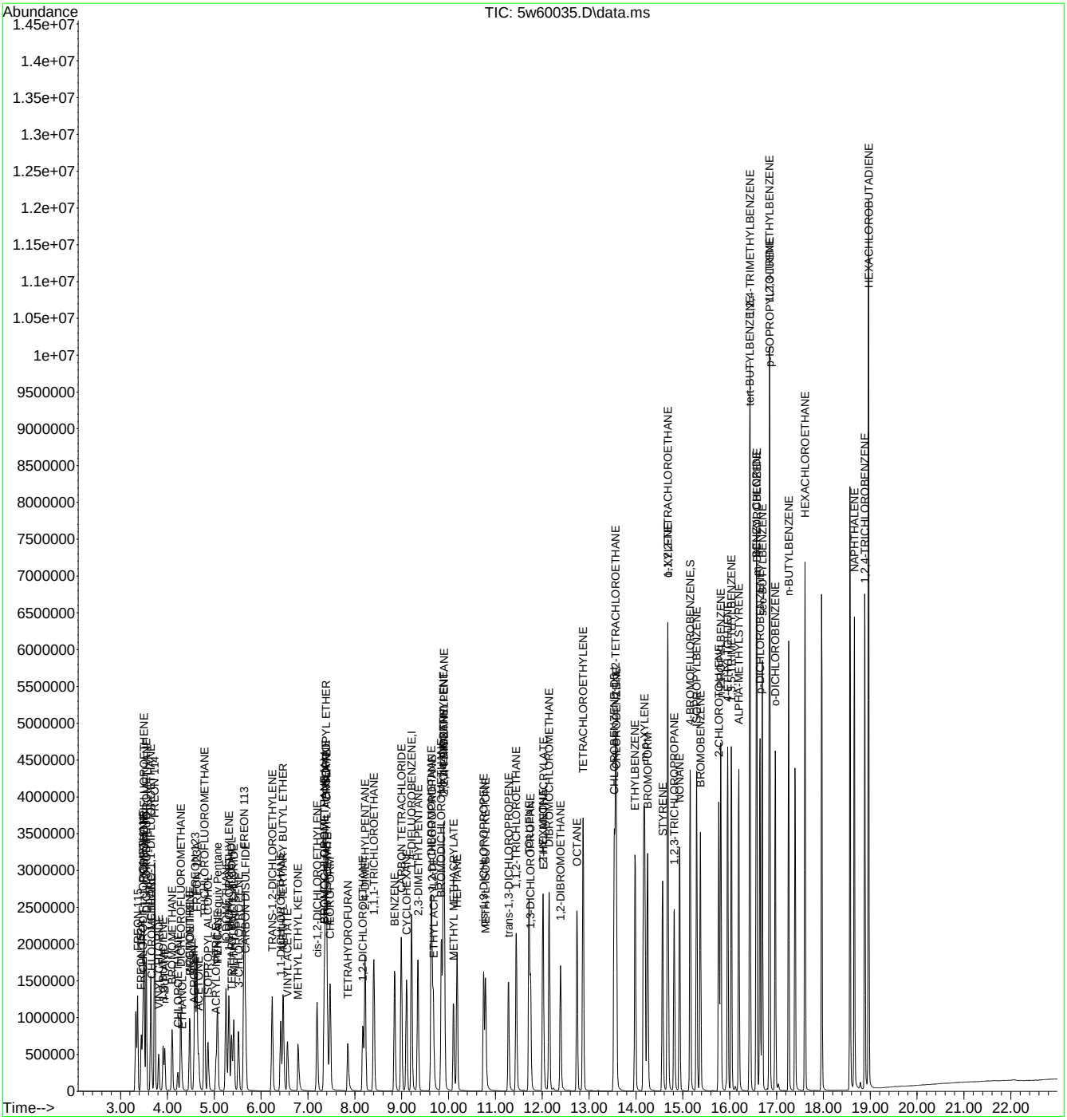
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60035.D
Acq On : 25 Nov 2025 12:44 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:24:28 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	117537	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	576557	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	537853	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	117431	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	424524	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	166464	11.6748	PPBV		98
3) FREON 152A	1.605	65	78132	10.6216	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	34082	10.6722	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	177991	11.5833	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	301836m	10.7228	PPBV		
7) PROPYLENE	1.627	41	94847	9.9623	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	251622	10.0470	PPBV		99
9) FREON 114	1.717	85	293840	10.1272	PPBV		98
10) CHLOROMETHANE	1.689	52	33784	8.3689	PPBV		98
11) VINYL CHLORIDE	1.746	62	120764m	8.4483	PPBV		
12) 1,3-BUTADIENE	1.785	54	95122	8.4248	PPBV		99
13) N-BUTANE	1.801	43	167061	8.7444	PPBV		99
14) BROMOMETHANE	1.859	94	106278	9.5883	PPBV		100
15) CHLOROETHANE	1.907	64	66166	8.5278	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	249903	9.3010	PPBV		100
17) ACETONITRILE	1.997	41	94569	7.0834	PPBV		100
18) ACROLEIN	2.036	56	54010	8.5161	PPBV		99
19) FREON 123	2.049	83	274608	10.1439	PPBV		99
20) FREON 123A	2.068	117	172350	10.7466	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	314396	10.2837	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	232486	8.9738	PPBV		96
23) ACETONE	2.074	58	62370	8.8053	PPBV		96
24) PENTANE	2.242	42	120801	8.6097	PPBV		97
25) IODOMETHANE	2.303	142	308750	10.9767	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	116988	10.0387	PPBV		91
27) CARBON DISULFIDE	2.467	76	301097	9.1059	PPBV		98
28) ETHANOL	1.933	45	60214	8.7304	PPBV		99
29) BROMOETHENE	2.007	106	110839	9.9603	PPBV		100
30) ACRYLONITRILE	2.213	52	91814	9.2178	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	103212	9.0347	PPBV		89
32) 3-CHLOROPROPENE	2.409	76	54741	8.7819	PPBV		93
33) FREON 113	2.463	151	196110	11.1721	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	113209	8.8294	PPBV		92
35) TERTIARY BUTYL ALCOHOL	2.341	59	232200	7.1738	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.795	73	349229	9.5751	PPBV		99
37) TETRAHYDROFURAN	3.470	72	56702	9.5859	PPBV		93
38) HEXANE	3.242	57	233347	9.4984	PPBV		99
39) VINYL ACETATE	2.830	86	34231	9.7646	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	234708	9.4691	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	64142	9.5684	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	134876	10.1412	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	65603	9.4186	PPBV		95
44) ETHYL ACETATE	3.251	61	45389	9.6391	PPBV		99
45) METHYL ACRYLATE	3.238	55	284596	9.5736	PPBV	#	100
46) CHLOROFORM	3.264	83	265353	10.3437	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	270843	9.8502	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279613	10.3419	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	300115	10.7149	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.663	62	187132	9.3837	PPBV		98
51) BENZENE	4.129	78	385720	9.8016	PPBV		98
53) CYCLOHEXANE	4.335	84	174716	10.3579	PPBV		97
54) 2,3-DIMETHYLPENTANE	4.586	71	88179	10.4827	PPBV		97
55) TRICHLOROETHENE	5.016	95	179264	9.9695	PPBV		98
56) 1,2-DICHLOROPROPANE	4.785	63	156598	9.8534	PPBV		98
57) DIBROMOMETHANE	4.746	174	193825	12.6496	PPBV		82
58) ETHYL ACRYLATE	4.901	55	350540	9.8543	PPBV		99
59) BROMODICHLOROMETHANE	4.962	83	297958	10.2561	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.106	57	729930	9.3764	PPBV		100
61) 1,4-DIOXANE	5.029	88	88045	10.3442	PPBV		96
62) HEPTANE	5.418	43	246005	9.5707	PPBV		98
63) METHYL METHACRYLATE	5.319	69	143934	9.9651	PPBV		94
64) METHYL ISOBUTYL KETONE	6.042	58	136749	8.8717	PPBV		98
65) CIS-1,3-DICHLOROPROPENE	5.939	75	247041	10.1375	PPBV		96
66) TOLUENE	7.132	91	482354	10.5364	PPBV		99
67) 1,3-DICHLOROPROPANE	7.190	76	245416	10.6929	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	6.608	75	214544	9.7443	PPBV		96
69) 1,1,2-TRICHLOROETHANE	6.766	83	140276	10.7531	PPBV		97
70) 2-HEXANONE	7.695	58	183274	8.5213	PPBV		98
71) ETHYL METHACRYLATE	7.833	69	246125	10.2154	PPBV		95
72) TETRACHLOROETHENE	8.849	164	215940	12.9316	PPBV		87
73) DIBROMOCHLOROMETHANE	7.659	129	310840	11.7252	PPBV		99
74) 1,2-DIBROMOETHANE	8.000	107	266221	11.2805	PPBV	#	99
75) OCTANE	8.997	43	341515	9.9187	PPBV		98
77) 1,1,1,2-TETRACHLOROETHANE	10.058	131	213785	11.0766	PPBV		98
78) CHLOROBENZENE	10.045	112	396327	10.7864	PPBV		99
79) ETHYLBENZENE	10.926	91	655869	10.8932	PPBV		100
80) M,P-XYLENE	11.351	91	1023644	20.9873	PPBV		97
81) O-XYLENE	12.280	91	519895	10.9823	PPBV		99
82) STYRENE	12.068	104	395063	11.1318	PPBV		100
83) NONANE	13.399	43	360332	9.7785	PPBV		98
84) BROMOFORM	11.161	173	350108	15.4204	PPBV		97
85) 1,1,2,2-TETRACHLOROETHANE	12.296	83	367207	10.8288	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	12.576	75	288503	10.8553	PPBV		100
88) ISOPROPYLBENZENE	13.791	120	195144	10.8441	PPBV		98
89) BROMOBENZENE	13.656	77	359353	10.3975	PPBV		87
90) 2-CHLOROTOLUENE	14.788	126	178666	10.6452	PPBV		100
91) N-PROPYLBENZENE	15.129	120	203706	10.6654	PPBV		100
92) 4-ETHYLTOLUENE	15.569	105	763752	10.8053	PPBV		98
93) 1,3,5-TRIMETHYLBENZENE	15.846	105	637092	10.8300	PPBV		99
94) ALPHA-METHYLSTYRENE	16.170	118	310988	10.6596	PPBV		99
95) TERT-BUTYLBENZENE	16.498	134	146662	10.2257	PPBV		90
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	648383	11.1180	PPBV		100
97) BENZYL CHLORIDE	16.598	91	467740	9.9277	PPBV		99
98) M-DICHLOROBENZENE	16.569	146	423012	10.5575	PPBV		97
99) P-DICHLOROBENZENE	16.662	146	425526	10.7779	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	395575	10.6431	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	177791	10.4101	PPBV		91
102) 1,2,3-TRIMETHYLBENZENE	16.936	105	621853	10.6368	PPBV		100
103) P-ISOPROPYLTOLUENE	17.013	134	195199	10.2831	PPBV		88
104) N-BUTYLBENZENE	17.379	134	192735	10.6499	PPBV		93
105) HEXACHLOROETHANE	17.559	117	257445	11.5470	PPBV	#	84
106) HEXACHLOROBUTADIENE	18.630	225	500479	18.9339	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.315	180	517111	16.3117	PPBV		97
108) NAPHTHALENE	18.363	128	993777	13.9741	PPBV		99
110) TVHC as equiv Pentane	2.242	TIC	579819	8.7479	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

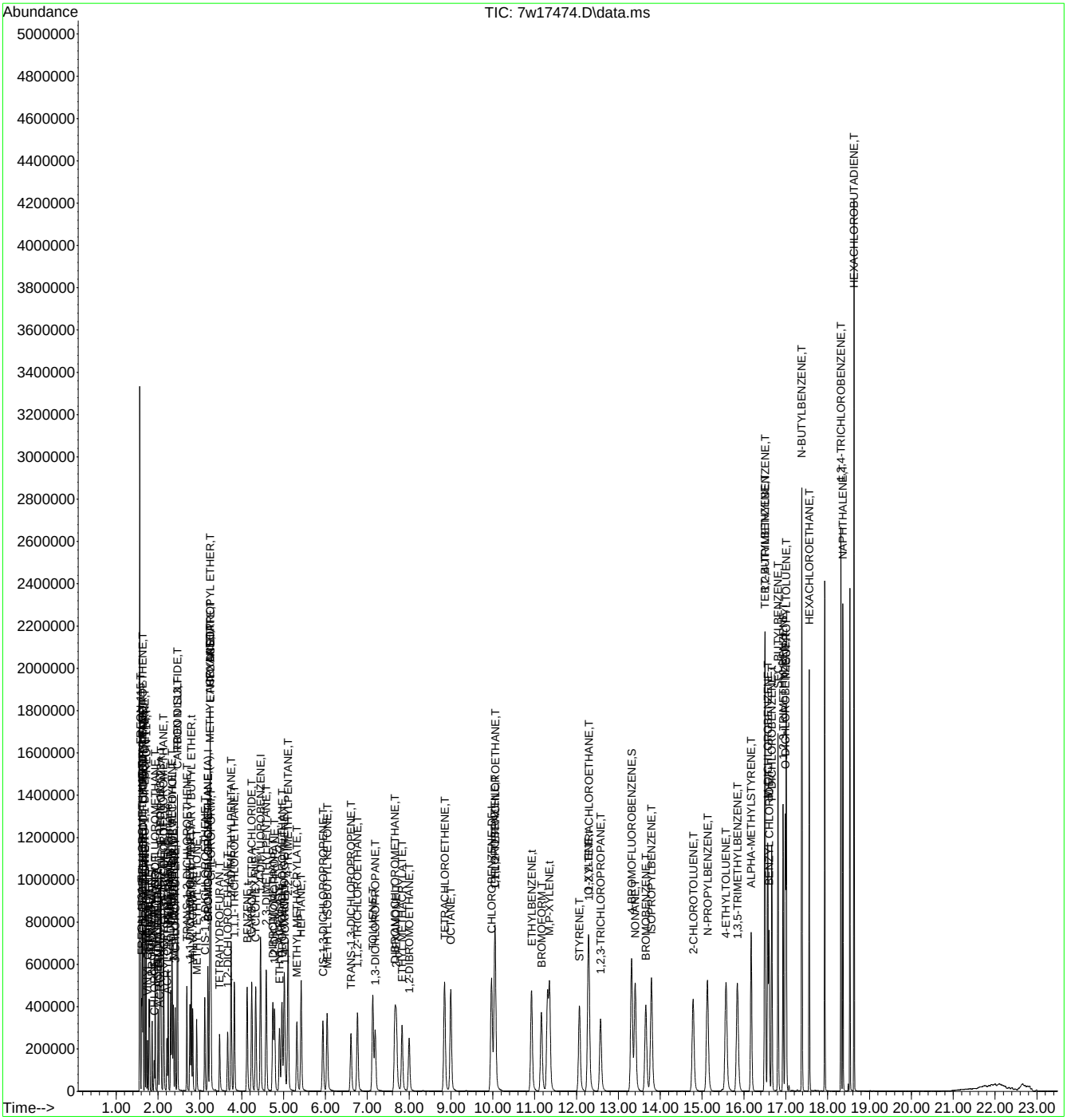
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

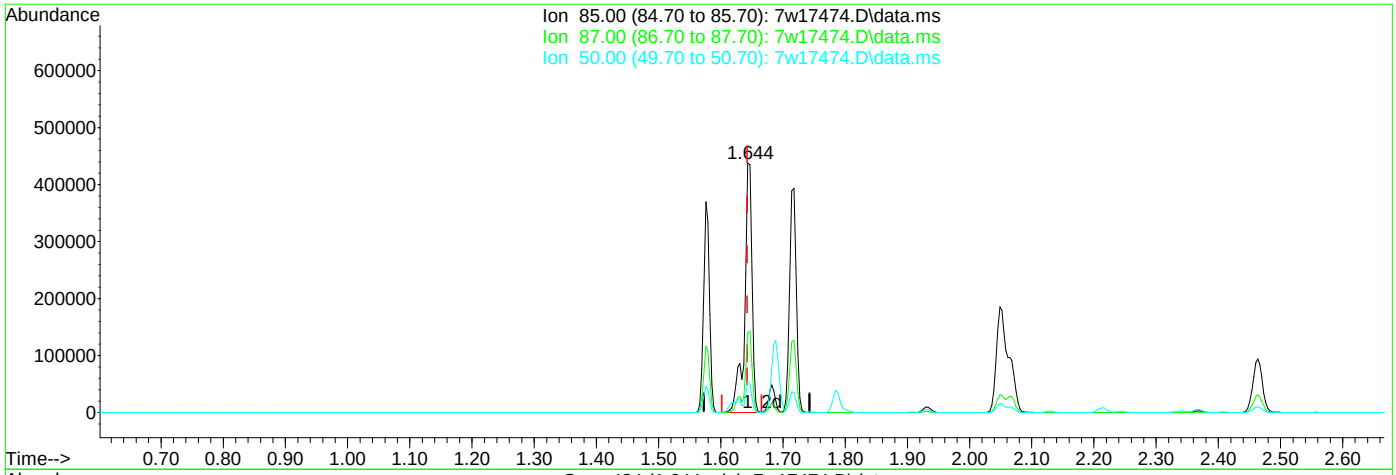
Sample Number: V7W613-BS
Lab FileID: 7W17474.D
Injection Time: 09/26/25 11:54
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

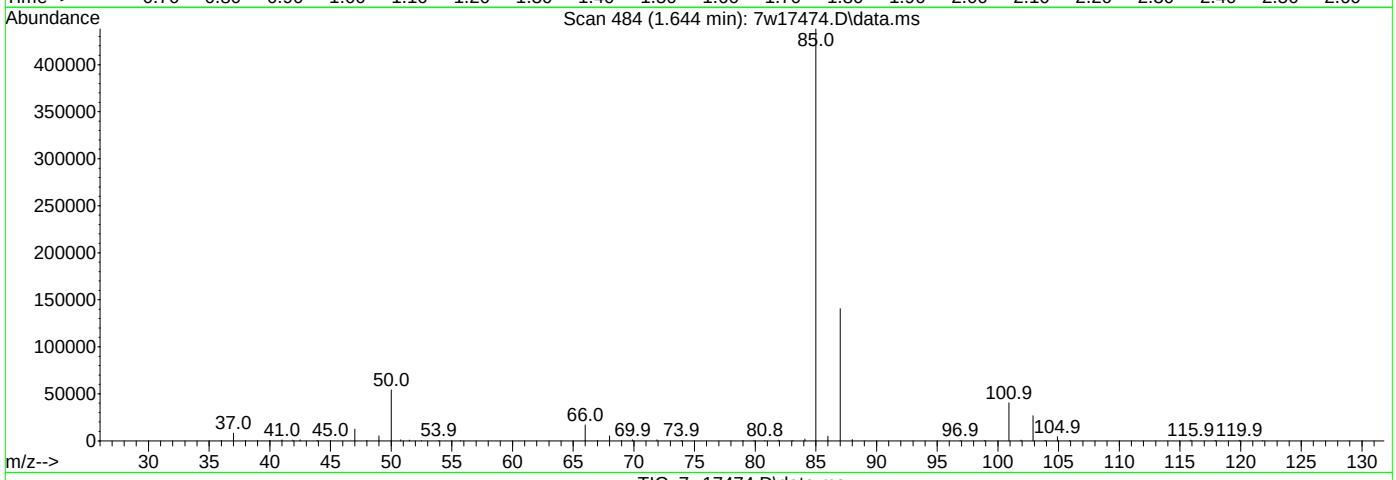
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.85PPBV

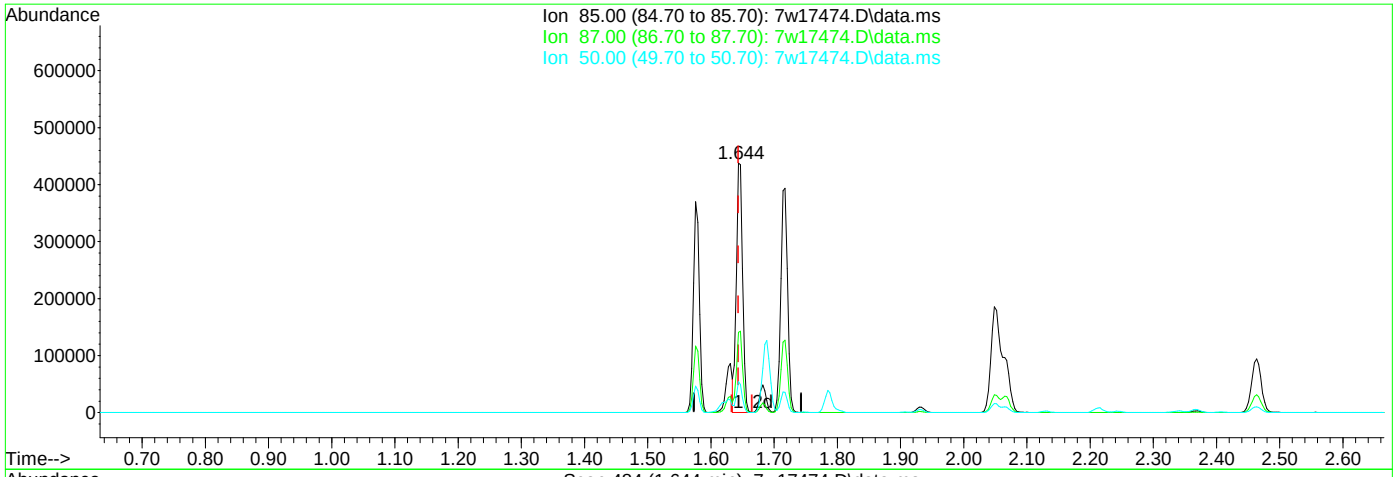
response 361845

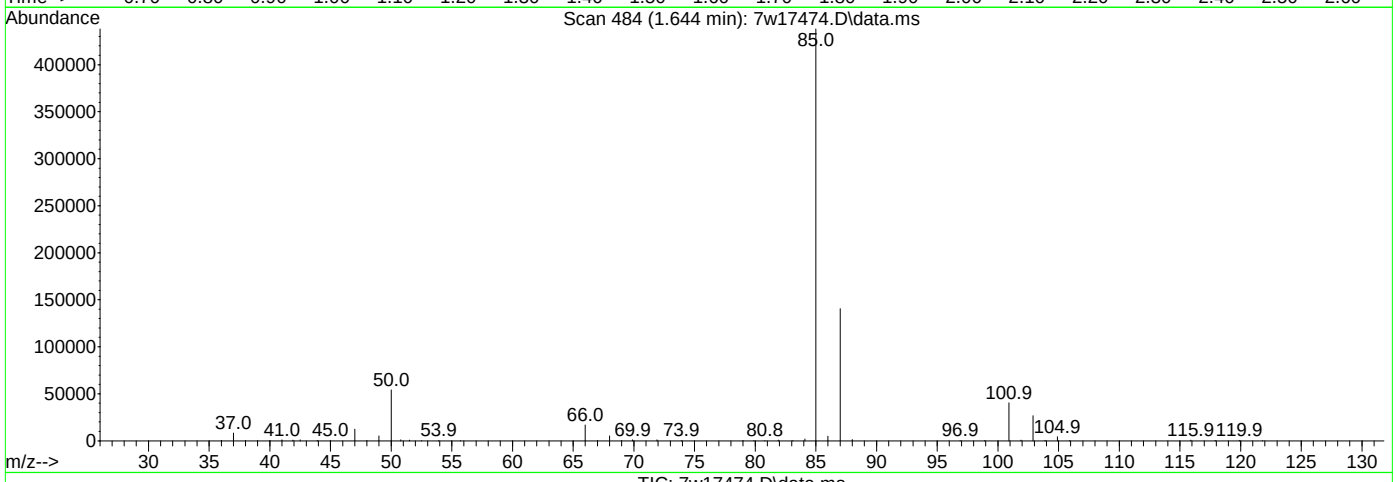
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.38
50.00	19.30	17.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.72PPBV m

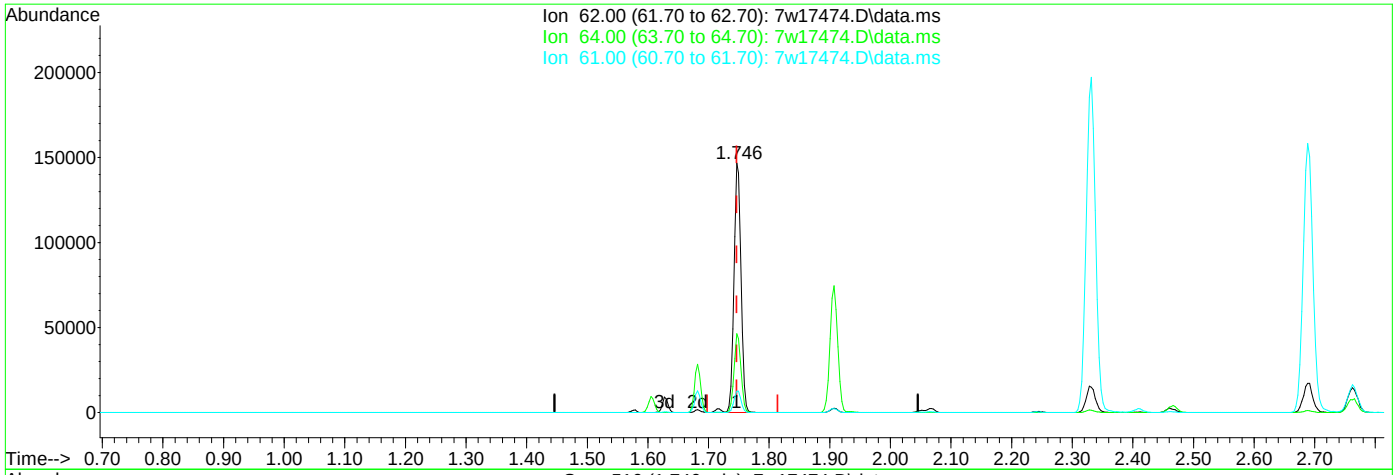
response 301836

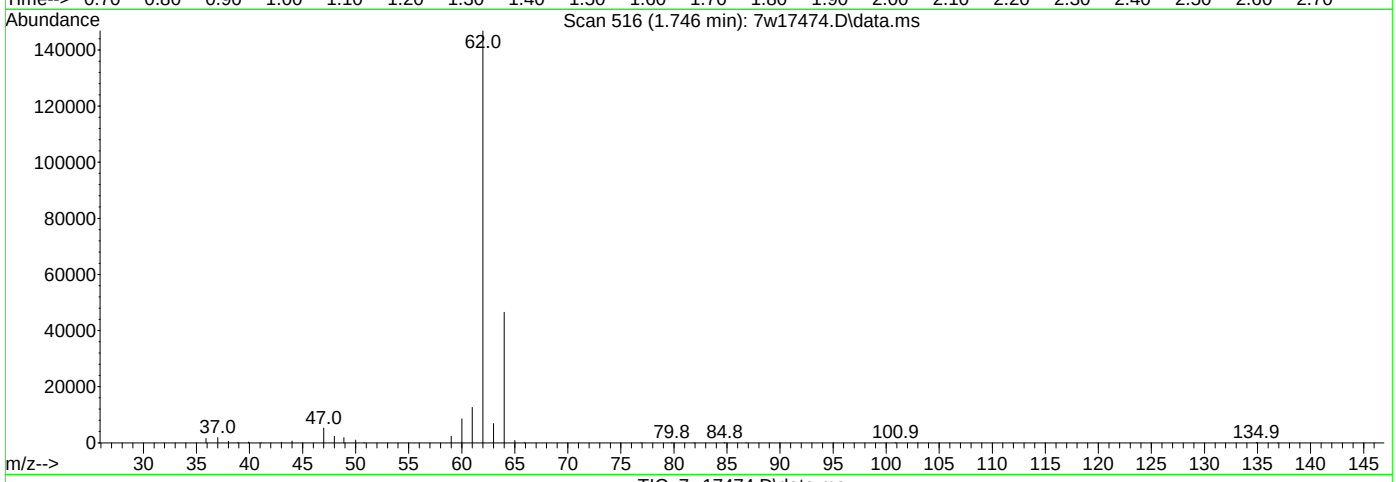
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.81
50.00	19.30	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.57PPBV

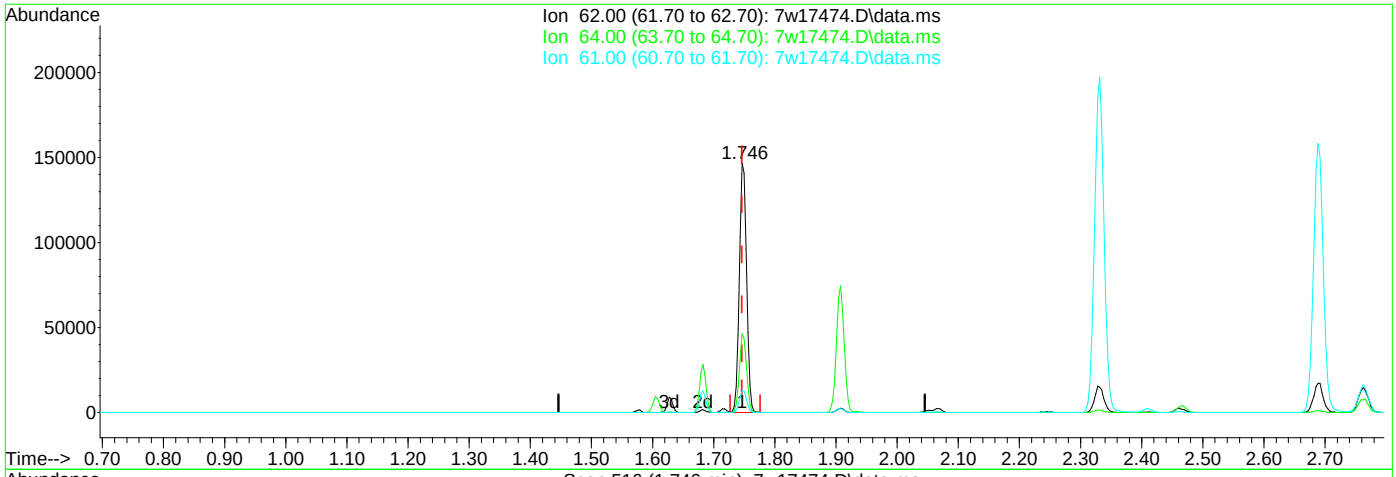
response 122511

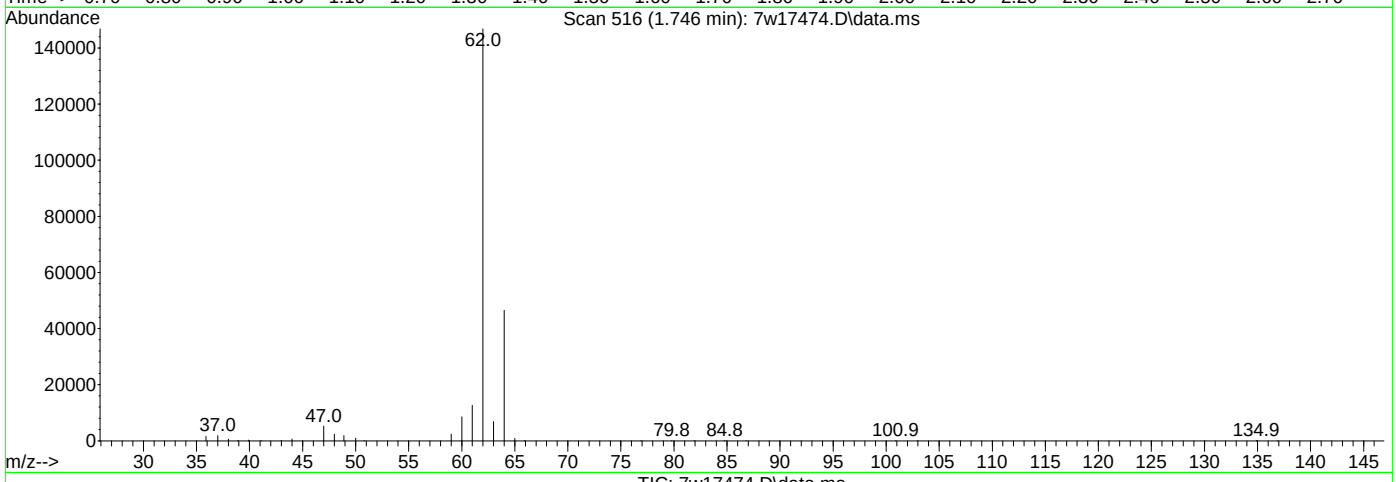
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	30.89
61.00	8.10	8.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.45PPBV m

response 120764

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.33
61.00	8.10	9.03
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.194	128	119187	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	585415	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	537645	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.194	128	119187	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	430611	9.95	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	161488	11.1690	PPBV		98
3) FREON 152A	1.605	65	75759	10.1564	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	33425	10.3216	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.628	116	174440	11.1950	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	291674m	10.2183	PPBV		
7) PROPYLENE	1.628	41	92093	9.5391	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.683	65	249388	9.8200	PPBV		98
9) FREON 114	1.715	85	289184	9.8288	PPBV		99
10) CHLOROMETHANE	1.686	52	33293	8.1331	PPBV		96
11) VINYL CHLORIDE	1.747	62	119109m	8.2172	PPBV		
12) 1,3-BUTADIENE	1.785	54	92631	8.0906	PPBV		97
13) N-BUTANE	1.801	43	164144	8.4728	PPBV		99
14) BROMOMETHANE	1.859	94	104635	9.3094	PPBV		100
15) CHLOROETHANE	1.908	64	65277	8.2967	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.930	67	246489	9.0469	PPBV		100
17) ACETONITRILE	1.998	41	92543	6.8357	PPBV		99
18) ACROLEIN	2.036	56	52535	8.1689	PPBV		96
19) FREON 123	2.049	83	272708	9.9342	PPBV		99
20) FREON 123A	2.065	117	170374	10.4763	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	311447	10.0462	PPBV		100
22) ISOPROPYL ALCOHOL	2.146	45	230027	8.7560	PPBV		97
23) ACETONE	2.075	58	61137	8.5117	PPBV		92
24) PENTANE	2.242	42	118430	8.3239	PPBV		97
25) IODOMETHANE	2.303	142	303085	10.6261	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	115657	9.7871	PPBV		90
27) CARBON DISULFIDE	2.467	76	301432m	8.9898	PPBV		
28) ETHANOL	1.933	45	59051	8.4432	PPBV		99
29) BROMOETHENE	2.007	106	109124	9.6704	PPBV		100
30) ACRYLONITRILE	2.213	52	91360	9.0453	PPBV		97
31) METHYLENE CHLORIDE	2.367	84	102065	8.8106	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	54180	8.5716	PPBV		94
33) FREON 113	2.464	151	195458	10.9808	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	111522	8.5775	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.342	59	233489	7.1138	PPBV		92
36) METHYL TERTIARY BUTYL ...	2.795	73	345519	9.3422	PPBV		99
37) TETRAHYDROFURAN	3.473	72	55023	9.1733	PPBV		95
38) HEXANE	3.242	57	229499	9.2124	PPBV		98
39) VINYL ACETATE	2.830	86	34282	9.6437	PPBV		86
40) 1,1-DICHLOROETHANE	2.763	63	229340	9.1245	PPBV		99
41) METHYL ETHYL KETONE	2.924	72	63545	9.3481	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.117	96	132692	9.8389	PPBV		95
43) DIISOPROPYL ETHER	3.248	59	63868	9.0426	PPBV		99
44) ETHYL ACETATE	3.248	61	45705	9.5719	PPBV		94
45) METHYL ACRYLATE	3.239	55	278453	9.2373	PPBV	#	100
46) CHLOROFORM	3.264	83	261849	10.0658	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.747	57	269368	9.6609	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	276376	10.0807	PPBV		97
49) CARBON TETRACHLORIDE	4.242	117	298654	10.5152	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	186432	9.2192	PPBV		98
51)	BENZENE	4.129	78	383912	9.6206	PPBV		97
53)	CYCLOHEXANE	4.335	84	173211	10.1133	PPBV		96
54)	2,3-DIMETHYLPENTANE	4.586	71	88496	10.3612	PPBV		94
55)	TRICHLOROETHENE	5.020	95	177169	9.7039	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	154800	9.5929	PPBV		99
57)	DIBROMOMETHANE	4.747	174	192245	12.3567	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	347251	9.6141	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	296513	10.0519	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.107	57	724228	9.1624	PPBV		100
61)	1,4-DIOXANE	5.026	88	86594	10.0198	PPBV		98
62)	HEPTANE	5.422	43	242237	9.2815	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	142858	9.7409	PPBV		93
64)	METHYL ISOBUTYL KETONE	6.039	58	138357	8.8402	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.940	75	245439	9.9193	PPBV		96
66)	TOLUENE	7.132	91	479641	10.3186	PPBV		99
67)	1,3-DICHLOROPROPANE	7.190	76	243826	10.4629	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	212620	9.5108	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.769	83	139676	10.5451	PPBV		99
70)	2-HEXANONE	7.695	58	183154	8.3868	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	244235	9.9836	PPBV		95
72)	TETRACHLOROETHENE	8.846	164	214993	12.6801	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	308974	11.4785	PPBV		99
74)	1,2-DIBROMOETHANE	8.001	107	264374	11.0327	PPBV	#	99
75)	OCTANE	8.997	43	340227	9.7318	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	213802	11.0818	PPBV		98
78)	CHLOROBENZENE	10.046	112	392719	10.6923	PPBV		99
79)	ETHYLBENZENE	10.923	91	651683	10.8278	PPBV		100
80)	M,P-XYLENE	11.351	91	1010310	20.7219	PPBV		100
81)	O-XYLENE	12.280	91	515533	10.8943	PPBV		99
82)	STYRENE	12.068	104	395209	11.1402	PPBV		100
83)	NONANE	13.402	43	357848	9.7149	PPBV		98
84)	BROMOFORM	11.158	173	342855	15.1068	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	361121	10.6535	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.576	75	285430	10.7439	PPBV	#	100
88)	ISOPROPYLBENZENE	13.788	120	191225	10.6304	PPBV		99
89)	BROMOBENZENE	13.653	77	356600	10.3218	PPBV		88
90)	2-CHLOROTOLUENE	14.785	126	177031	10.5518	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	202037	10.5821	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	756559	10.7077	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.843	105	633103	10.7664	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.171	118	305574	10.4780	PPBV		99
95)	TERT-BUTYLBENZENE	16.499	134	146423	10.2130	PPBV		91
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	646508	11.0901	PPBV		100
97)	BENZYL CHLORIDE	16.602	91	458275	9.7306	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	418818	10.4569	PPBV		97
99)	P-DICHLOROBENZENE	16.663	146	428379	10.8544	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	393831	10.6003	PPBV		97
101)	SEC-BUTYLBENZENE	16.814	134	177863	10.4183	PPBV		92
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	620374	10.6156	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.010	134	193374	10.1909	PPBV		89
104)	N-BUTYLBENZENE	17.380	134	191374	10.5788	PPBV		94
105)	HEXACHLOROETHANE	17.560	117	252934	11.3491	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.630	225	499473	18.9032	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.315	180	516000	16.2830	PPBV		97
108)	NAPHTHALENE	18.363	128	991089	13.9417	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	565634	8.4081	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

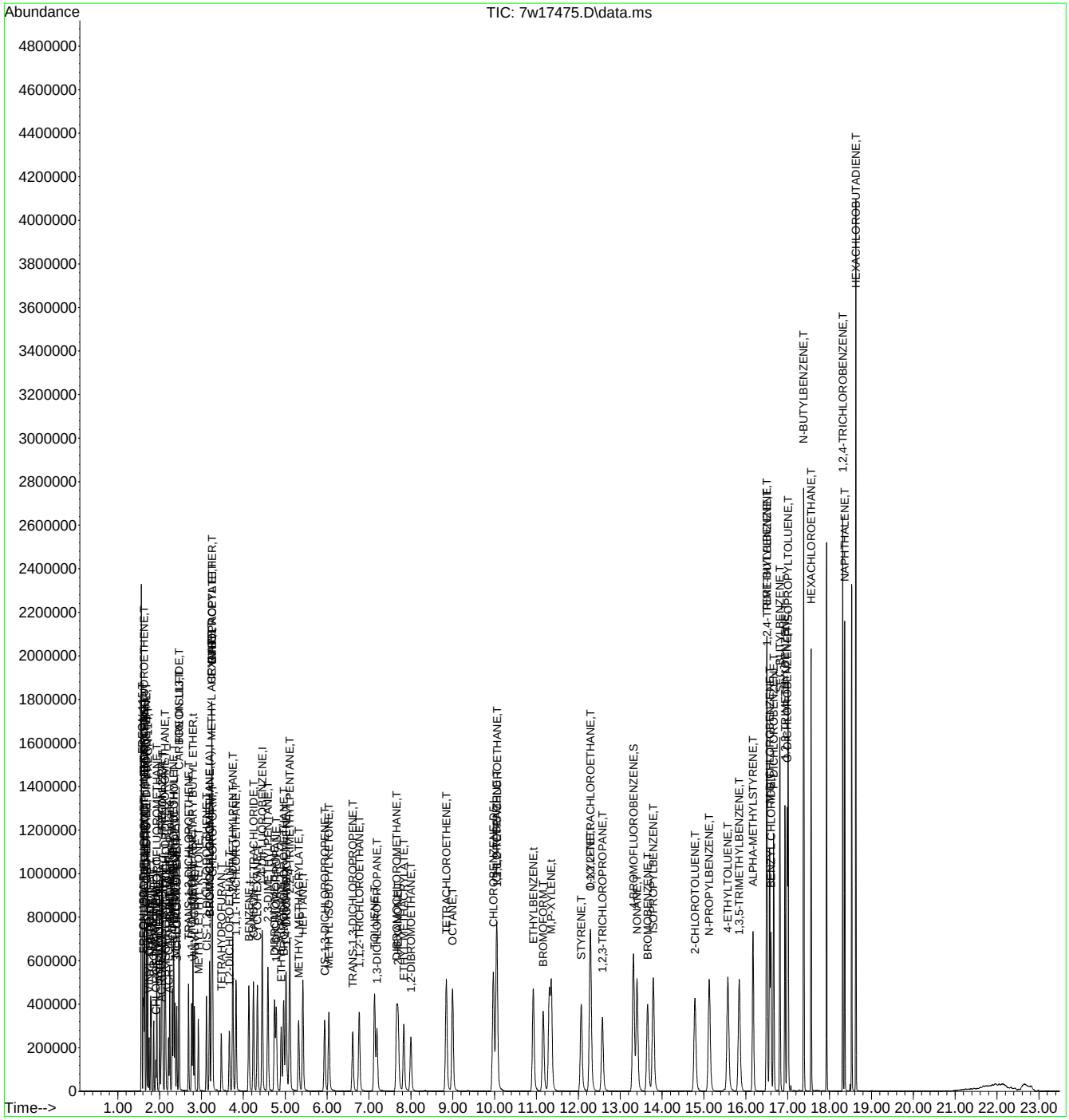
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V7W613-BSD
Lab FileID: 7W17475.D
Injection Time: 09/26/25 12:32
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak
Carbon disulfide	75-15-0		2.47	Missed peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
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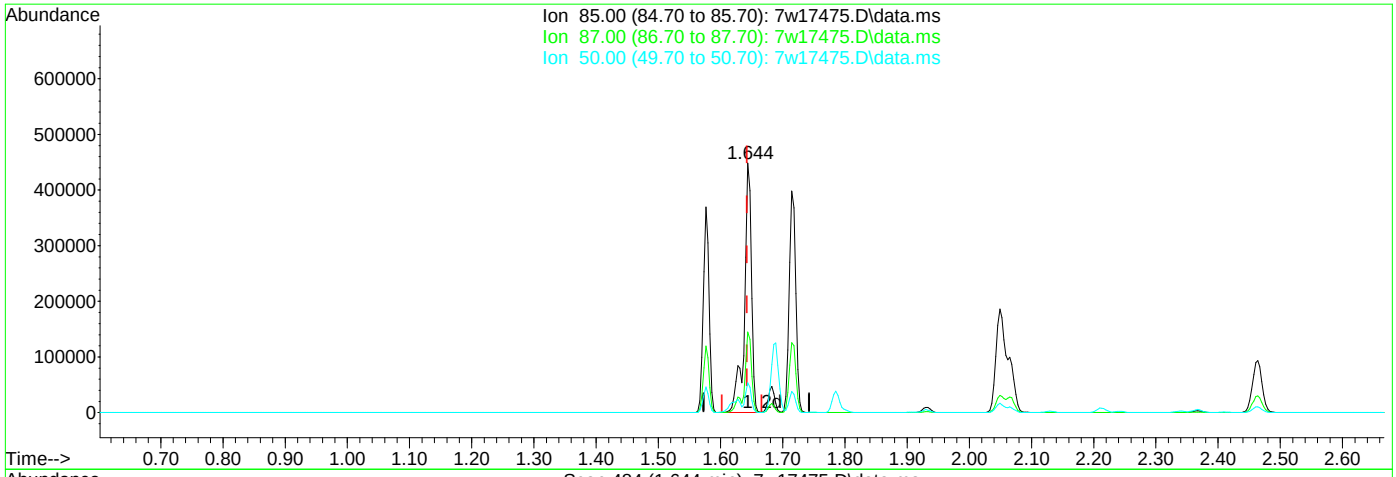

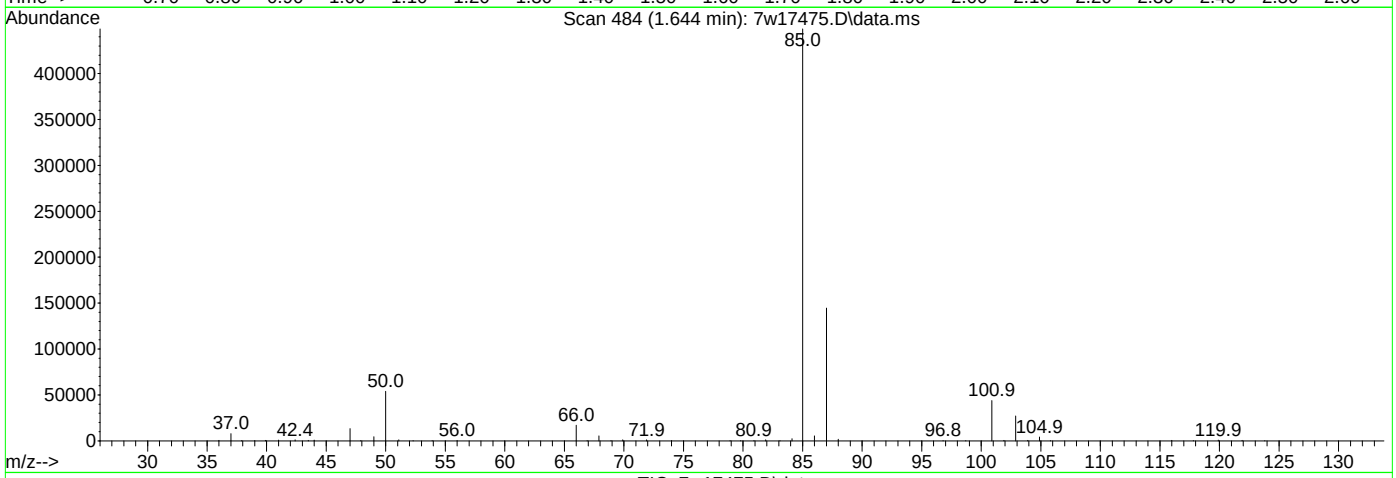

TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.35PPBV

response 352449

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.29
50.00	19.30	17.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
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Misc : MS97385,v7w613,,,,,1
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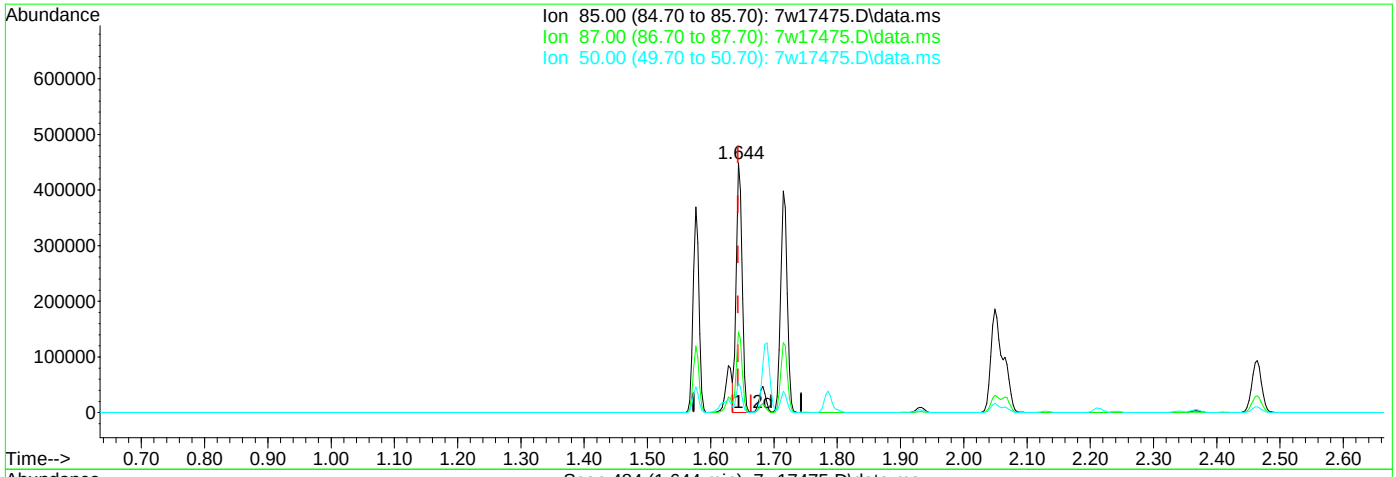
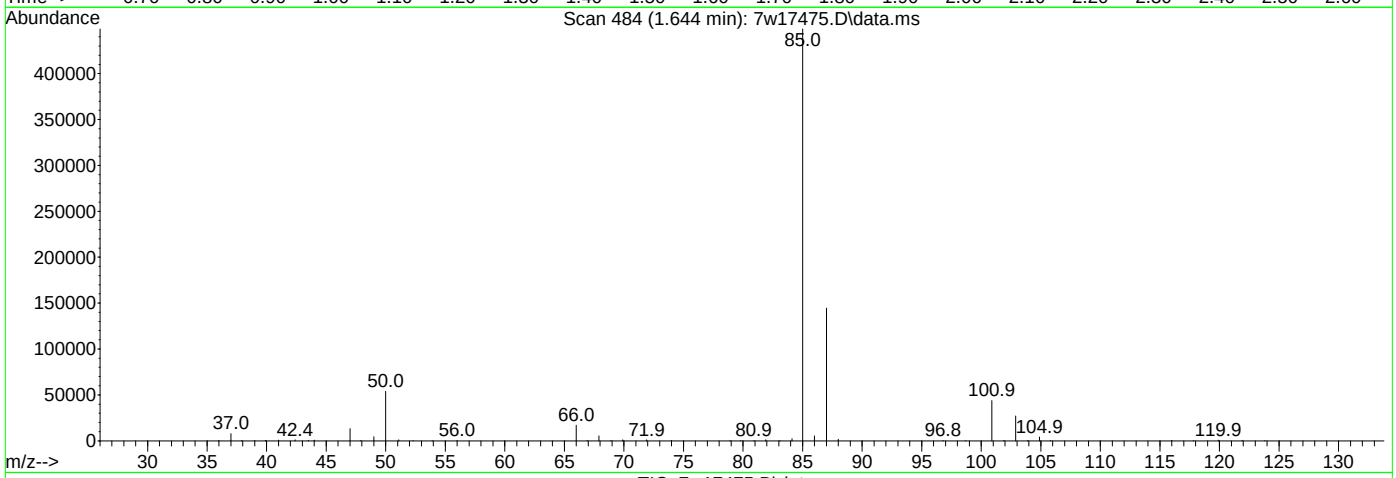




TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.22PPBV m

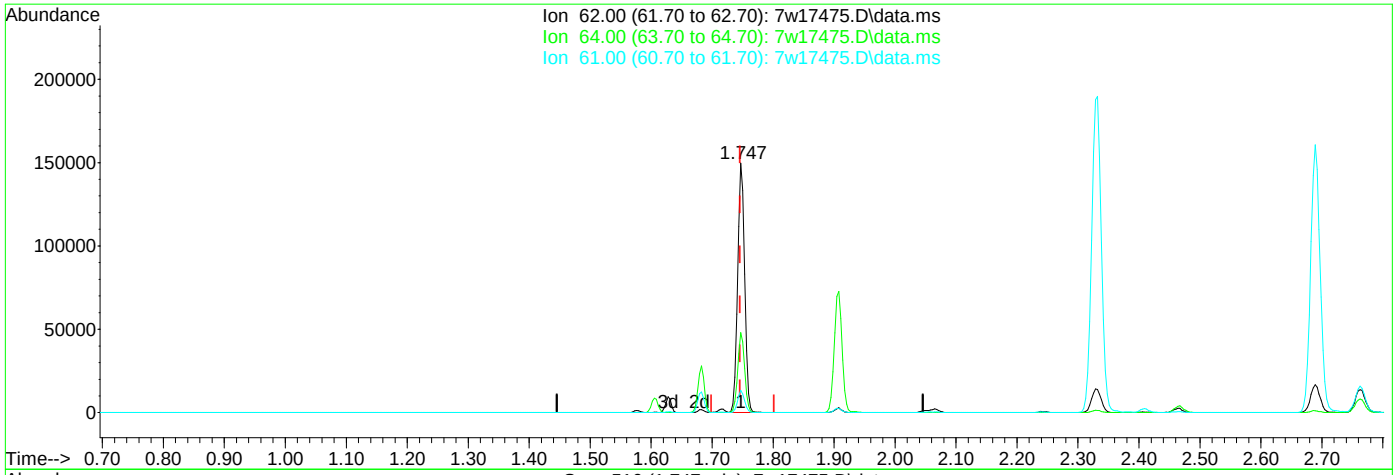
response 291674

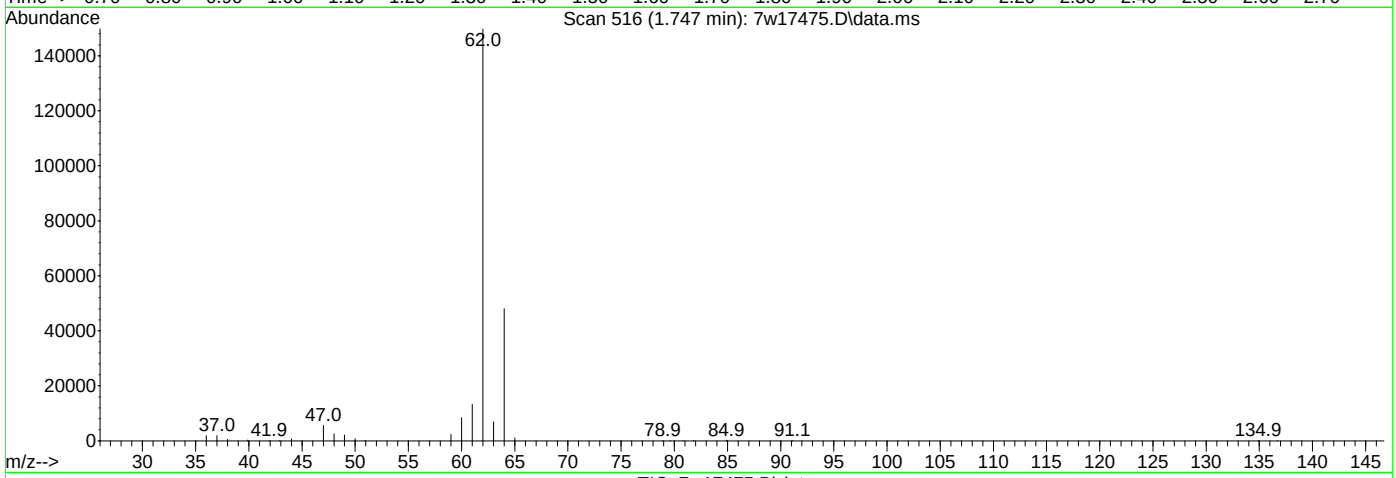
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.02
50.00	19.30	20.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.33PPBV

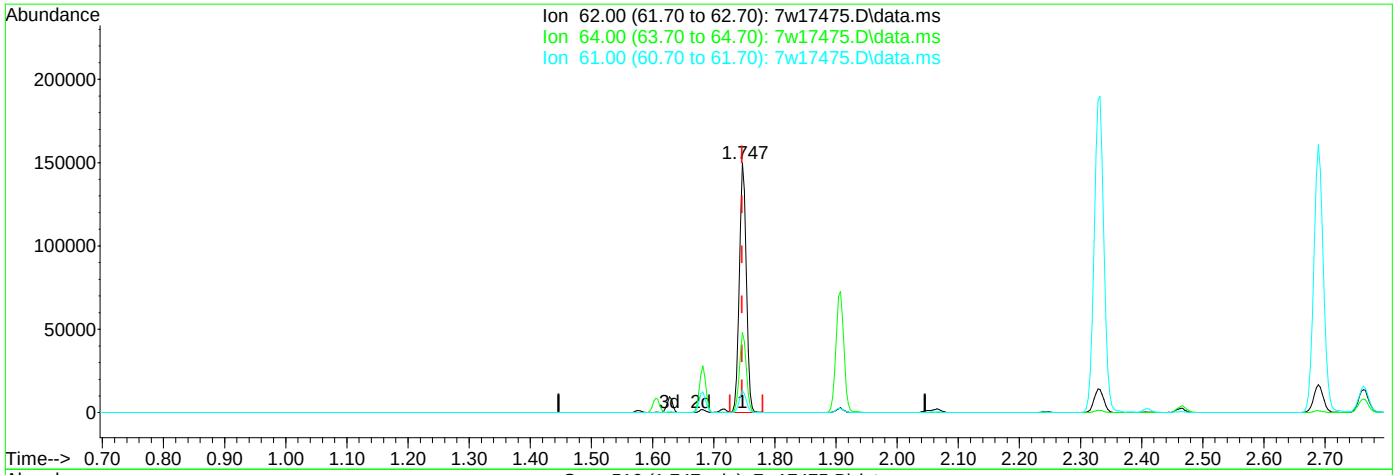
response 120814

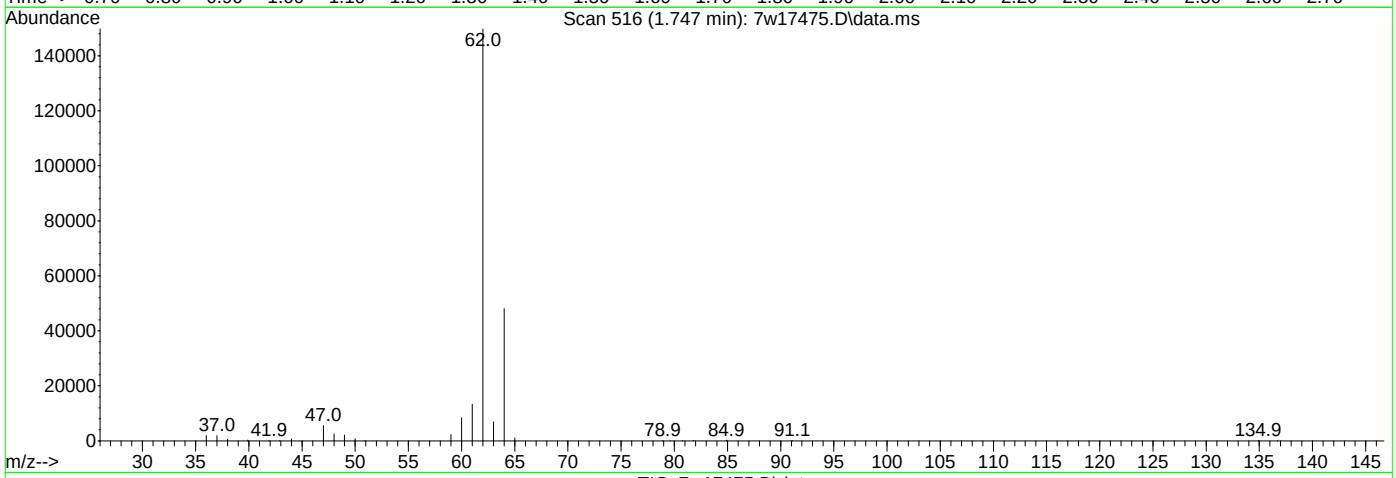
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.28
61.00	8.10	8.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.22PPBV m

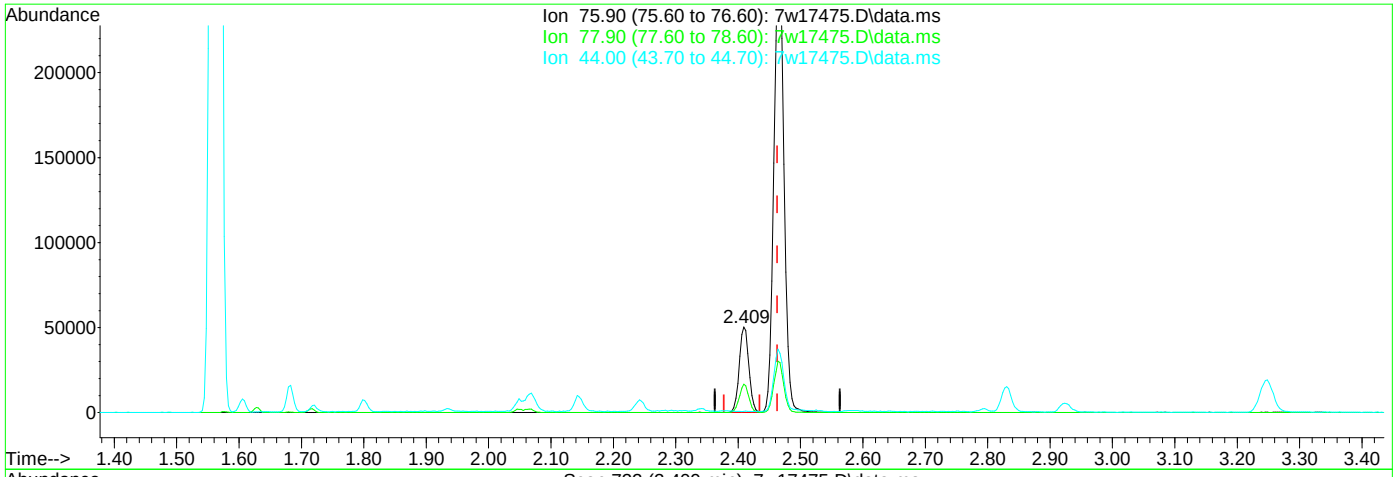
response 119109

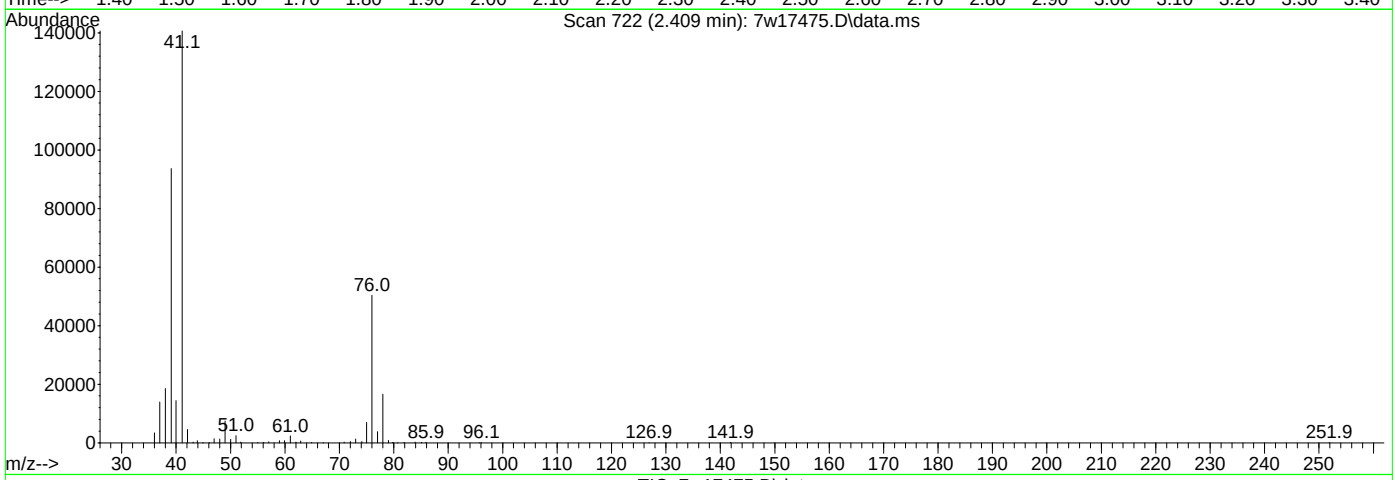
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.73
61.00	8.10	8.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.409min (-0.054) 1.62PPBV

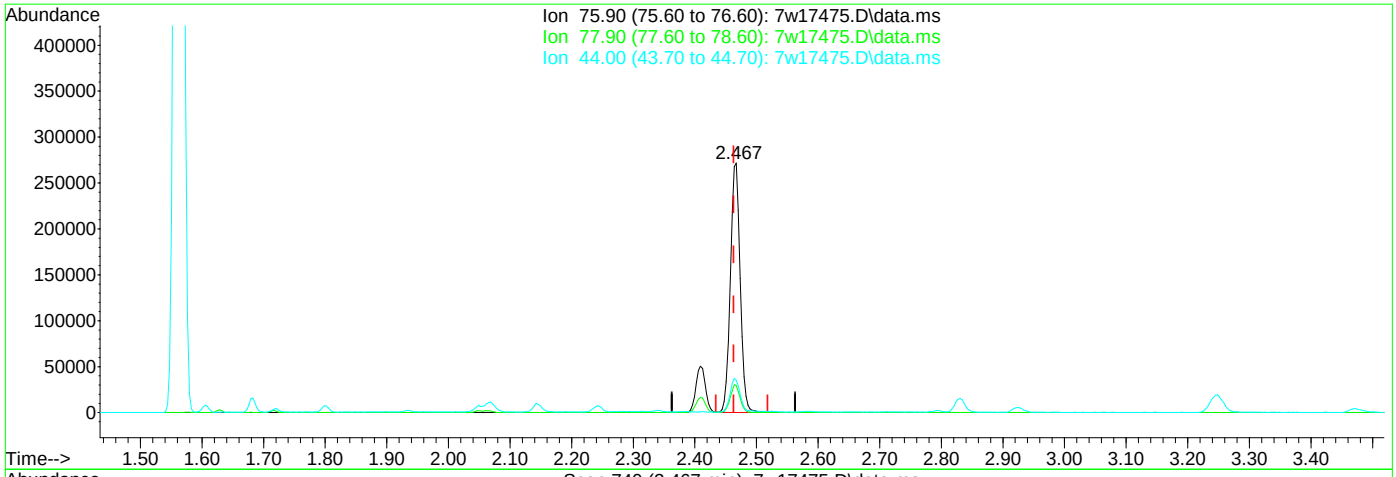
response 54178

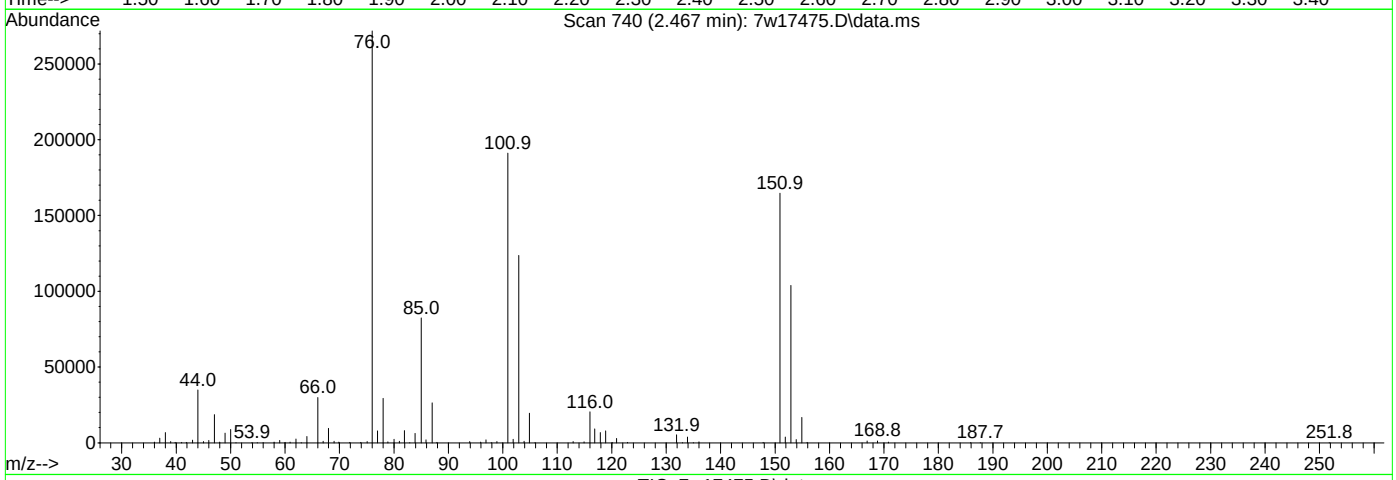
Ion	Exp%	Act%
75.90	100	100
77.90	11.00	32.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.467min (+0.004) 8.99PPBV m

response 301432

Ion	Exp%	Act%
75.90	100	100
77.90	11.00	5.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	130379	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	642815	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	599585	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	130461	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	486335	10.07	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	176735	11.1743	PPBV		99
3) FREON 152A	1.608	65	89326	10.9473	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	40053	11.3065	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	197338	11.5774	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	331395m	10.6133	PPBV		
7) PROPYLENE	1.627	41	107588	10.1874	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	298348	10.7394	PPBV		99
9) FREON 114	1.717	85	333202	10.3527	PPBV		98
10) CHLOROMETHANE	1.689	52	39113	8.7346	PPBV		96
11) VINYL CHLORIDE	1.750	62	140496m	8.8606	PPBV		
12) 1,3-BUTADIENE	1.785	54	109540	8.7462	PPBV		99
13) N-BUTANE	1.801	43	189708	8.9517	PPBV		98
14) BROMOMETHANE	1.859	94	120340	9.7876	PPBV		99
15) CHLOROETHANE	1.907	64	77444	8.9982	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.933	67	293933	9.8622	PPBV		99
17) ACETONITRILE	1.997	41	106613	7.1990	PPBV		100
18) ACROLEIN	2.036	56	60964	8.6658	PPBV		97
19) FREON 123	2.049	83	313937	10.4544	PPBV		99
20) FREON 123A	2.068	117	196771	11.0608	PPBV		94
21) TRICHLOROFLUOROMETHANE	2.129	101	362130	10.6783	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	277425	9.6537	PPBV		97
23) ACETONE	2.074	58	72195	9.1885	PPBV		96
24) PENTANE	2.242	42	135958	8.7355	PPBV		95
25) IODOMETHANE	2.303	142	352266	11.2902	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	134028	10.3681	PPBV		95
27) CARBON DISULFIDE	2.463	76	345454	9.4183	PPBV		99
28) ETHANOL	1.936	45	58852	7.6924	PPBV		98
29) BROMOETHENE	2.007	106	125973	10.2053	PPBV		100
30) ACRYLONITRILE	2.213	52	103889	9.4028	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	117155	9.2451	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	62884	9.0946	PPBV		93
33) FREON 113	2.463	151	222768	11.4407	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	127816	8.9868	PPBV		95
35) TERTIARY BUTYL ALCOHOL	2.341	59	281570	7.8423	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	403327	9.9691	PPBV		100
37) TETRAHYDROFURAN	3.470	72	63152	9.6247	PPBV		95
38) HEXANE	3.242	57	265163	9.7303	PPBV		100
39) VINYL ACETATE	2.830	86	39734	10.2179	PPBV		91
40) 1,1-DICHLOROETHANE	2.762	63	268535	9.7668	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	72677	9.7738	PPBV		93
42) CIS-1,2-DICHLOROETHENE	3.116	96	152205	10.3170	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	75942	9.8290	PPBV		95
44) ETHYL ACETATE	3.251	61	53380	10.2196	PPBV		96
45) METHYL ACRYLATE	3.238	55	326671	9.9066	PPBV	#	100
46) CHLOROFORM	3.264	83	302027	10.6136	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	312976	10.2614	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	322542	10.7547	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	344735	11.0957	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.663	62	224224	10.1362	PPBV		99
51) BENZENE	4.129	78	434136	9.9453	PPBV		99
53) CYCLOHEXANE	4.335	84	195153	10.3770	PPBV		100
54) 2,3-DIMETHYLPENTANE	4.586	71	100086	10.6718	PPBV		100
55) TRICHLOROETHENE	5.013	95	203318	10.1417	PPBV		98
56) 1,2-DICHLOROPROPANE	4.782	63	182672	10.3093	PPBV		99
57) DIBROMOMETHANE	4.746	174	219183	12.8301	PPBV		82
58) ETHYL ACRYLATE	4.901	55	405297	10.2192	PPBV		99
59) BROMODICHLOROMETHANE	4.962	83	344428	10.6336	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.106	57	843872	9.7228	PPBV		99
61) 1,4-DIOXANE	5.029	88	102208	10.7705	PPBV		97
62) HEPTANE	5.418	43	281372	9.8183	PPBV		99
63) METHYL METHACRYLATE	5.319	69	166045	10.3110	PPBV		94
64) METHYL ISOBUTYL KETONE	6.039	58	163064	9.4885	PPBV		98
65) CIS-1,3-DICHLOROPROPENE	5.939	75	281698	10.3681	PPBV		97
66) TOLUENE	7.132	91	550062	10.7769	PPBV		98
67) 1,3-DICHLOROPROPANE	7.190	76	278241	10.8735	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	6.611	75	247748	10.0926	PPBV		98
69) 1,1,2-TRICHLOROETHANE	6.765	83	159511	10.9672	PPBV		98
70) 2-HEXANONE	7.691	58	219736	9.1635	PPBV		97
71) ETHYL METHACRYLATE	7.830	69	282972	10.5342	PPBV		96
72) TETRACHLOROETHENE	8.846	164	255210	13.7080	PPBV		87
73) DIBROMOCHLOROMETHANE	7.663	129	361003	12.2138	PPBV		98
74) 1,2-DIBROMOETHANE	8.000	107	305704	11.6183	PPBV	#	98
75) OCTANE	8.994	43	390745	10.1788	PPBV		98
77) 1,1,1,2-TETRACHLOROETHANE	10.058	131	247746	11.5146	PPBV		98
78) CHLOROBENZENE	10.045	112	451175	11.0149	PPBV		99
79) ETHYLBENZENE	10.926	91	750408	11.1801	PPBV		99
80) M,P-XYLENE	11.351	91	1163998	21.4078	PPBV		98
81) O-XYLENE	12.280	91	593266	11.2419	PPBV		99
82) STYRENE	12.071	104	449108	11.3517	PPBV		99
83) NONANE	13.402	43	415056	10.1039	PPBV		97
84) BROMOFORM	11.161	173	406205	16.0491	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.296	83	423563	11.2047	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	12.576	75	333873	11.2690	PPBV		100
88) ISOPROPYLBENZENE	13.788	120	218081	10.8709	PPBV		99
89) BROMOBENZENE	13.656	77	410584	10.6567	PPBV		87
90) 2-CHLOROTOLUENE	14.784	126	201788	10.7850	PPBV		100
91) N-PROPYLBENZENE	15.125	120	231395	10.8678	PPBV		99
92) 4-ETHYLTOLUENE	15.572	105	870118	11.0427	PPBV		98
93) 1,3,5-TRIMETHYLBENZENE	15.846	105	731717	11.1579	PPBV		98
94) ALPHA-METHYLSTYRENE	16.173	118	351353	10.8032	PPBV		99
95) TERT-BUTYLBENZENE	16.495	134	165463	10.3488	PPBV		88
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	747610	11.4996	PPBV		99
97) BENZYL CHLORIDE	16.598	91	551134	10.4934	PPBV		99
98) M-DICHLOROBENZENE	16.569	146	482591	10.8044	PPBV		98
99) P-DICHLOROBENZENE	16.665	146	486723	11.0587	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	460040	11.1032	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	202794	10.6516	PPBV		90
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	718118	11.0188	PPBV		98
103) P-ISOPROPYLTOLUENE	17.009	134	221605	10.4722	PPBV		87
104) N-BUTYLBENZENE	17.376	134	218487	10.8299	PPBV		92
105) HEXACHLOROETHANE	17.556	117	282989	11.3859	PPBV	#	83
106) HEXACHLOROBUTADIENE	18.620	225	578900	19.6459	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.308	180	586728	16.6022	PPBV		97
108) NAPHTHALENE	18.357	128	1106673	13.9595	PPBV		99
110) TVHC as equiv Pentane	2.242	TIC	673394	9.1450	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

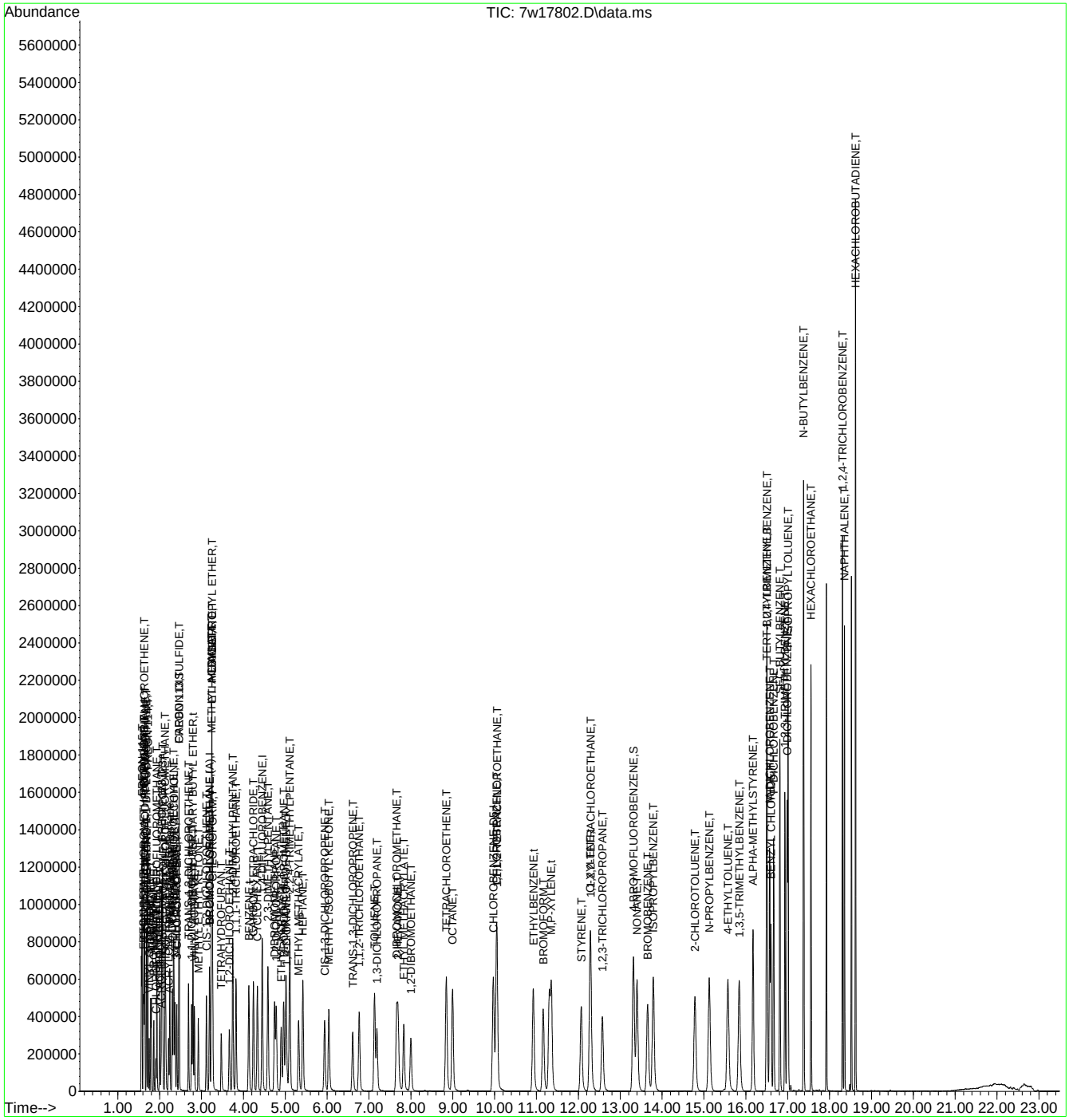
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

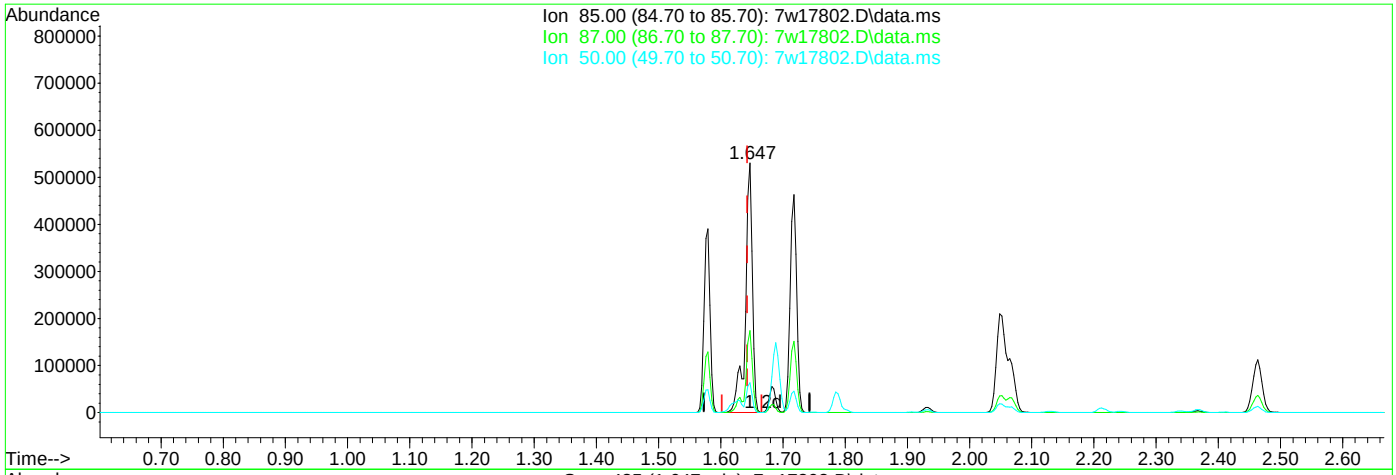
Sample Number: V7W624-BS
Lab FileID: 7W17802.D
Injection Time: 10/13/25 12:00
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

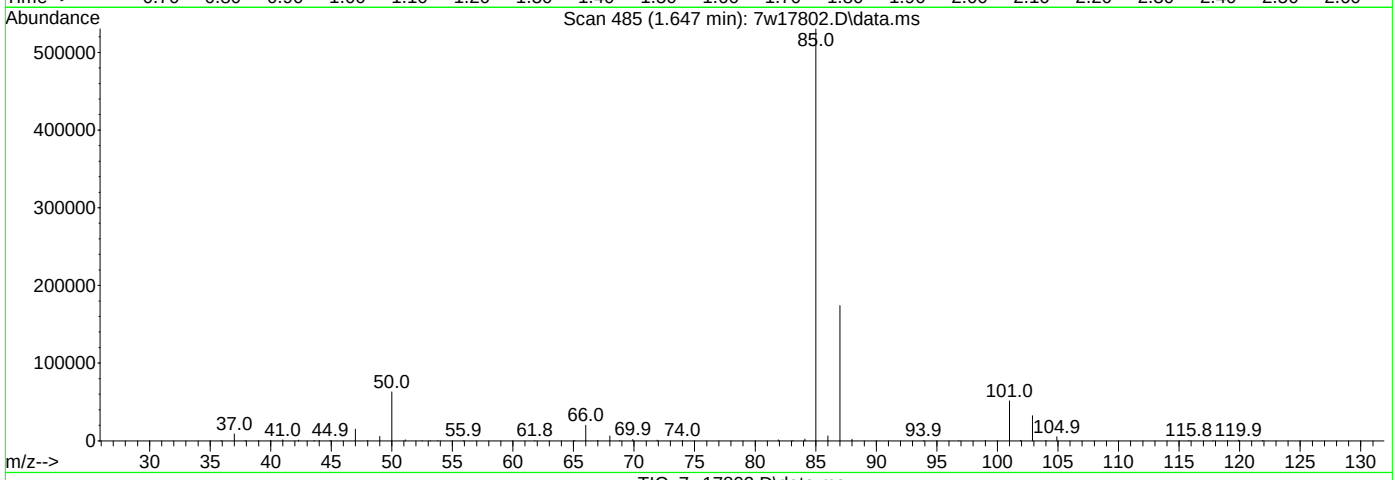
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.10PPBV

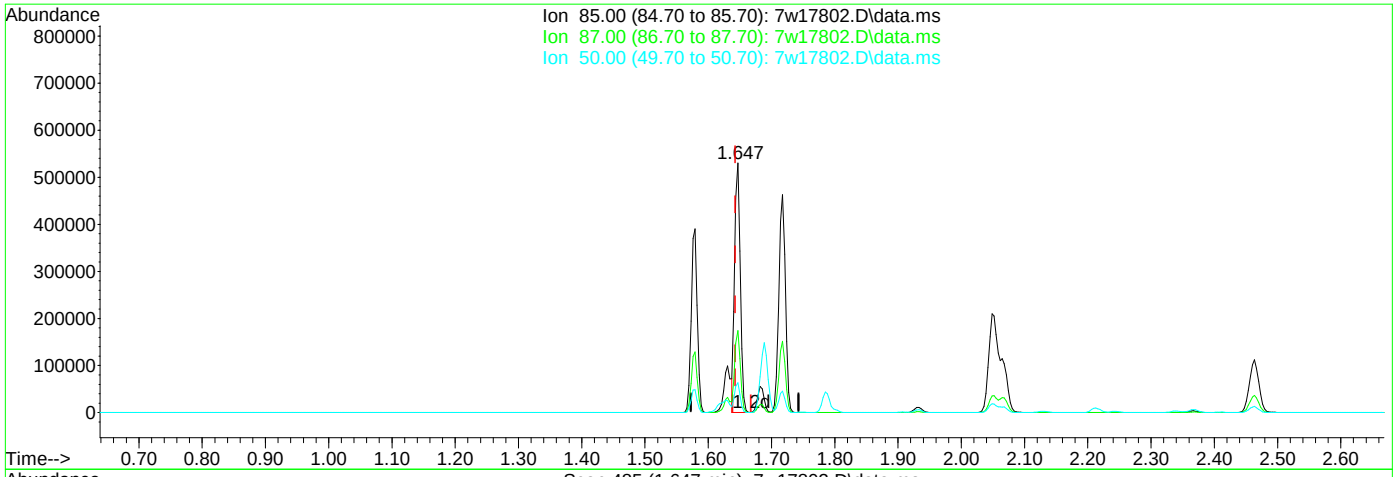
response 409190

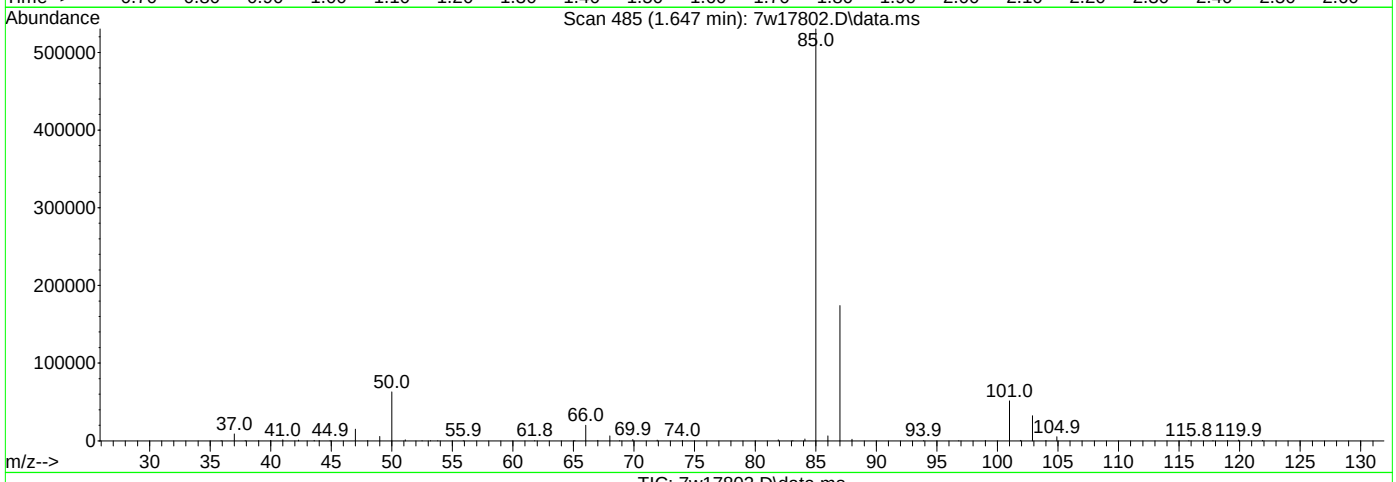
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.71
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.61PPBV m

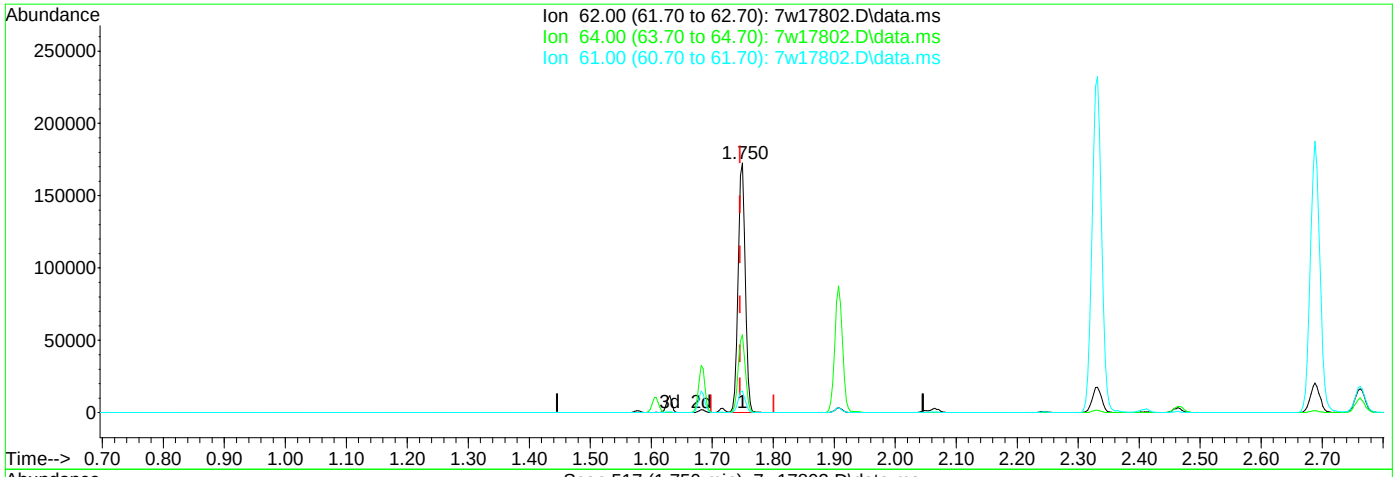
response 331395

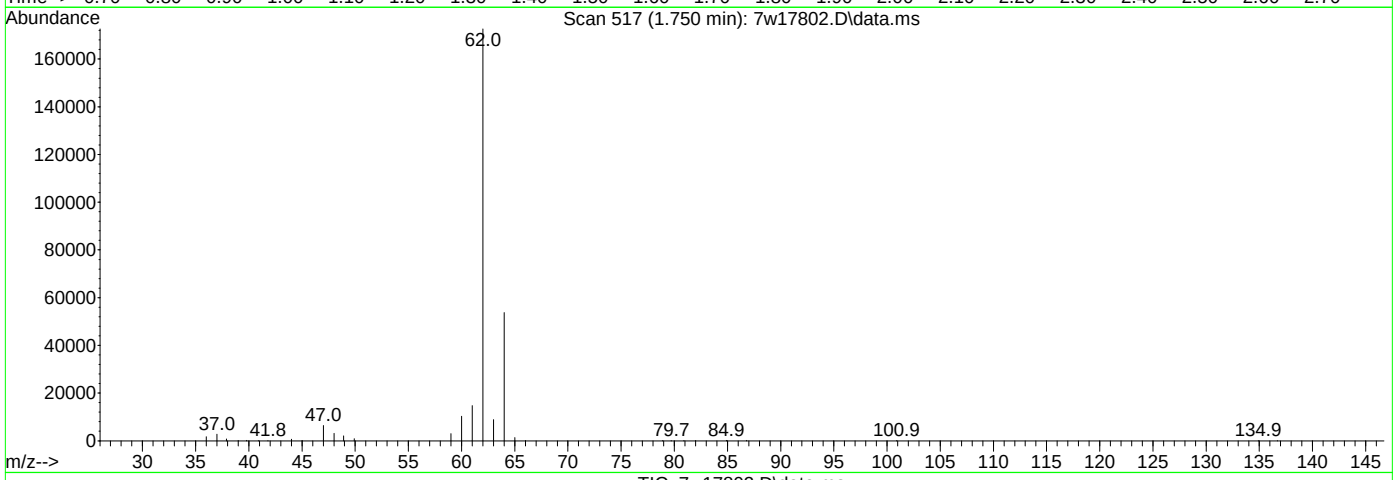
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.39
50.00	19.30	21.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.98PPBV

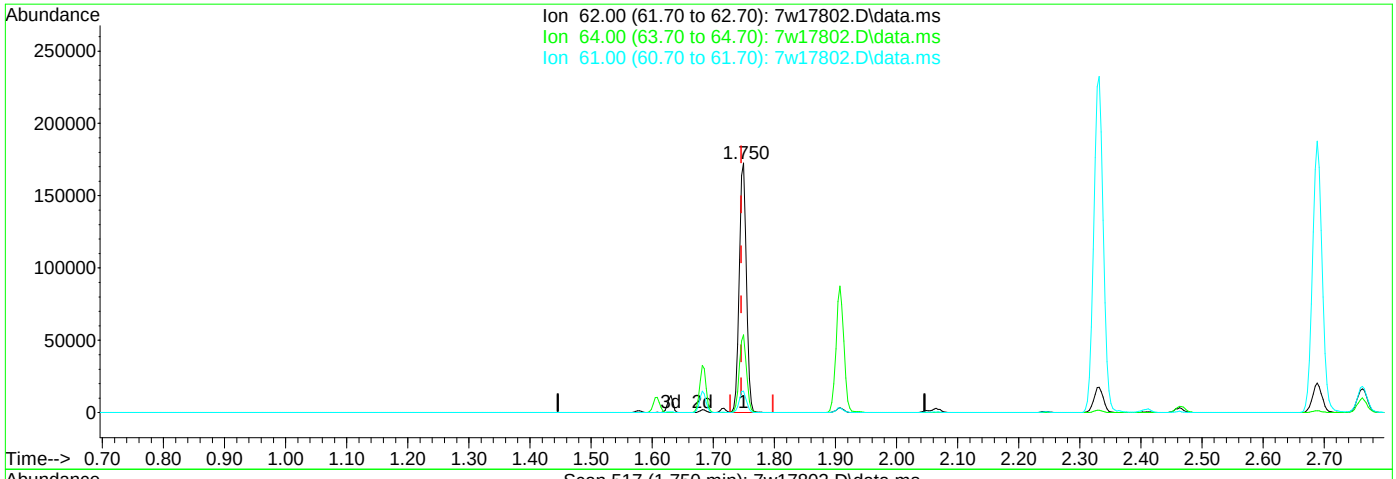
response 142442

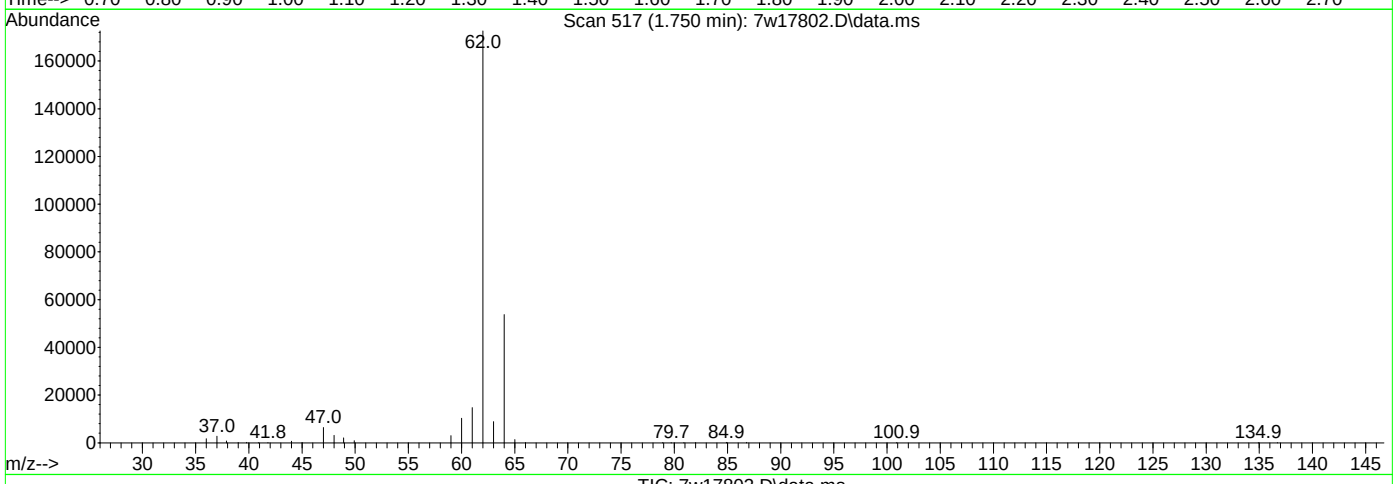
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.06
61.00	8.10	8.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.86PPBV m

response 140496

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.49
61.00	8.10	9.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	133015	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	654252	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	606507	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	133015	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	488885	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	184518	11.4351	PPBV		97
3) FREON 152A	1.608	65	88561	10.6384	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	39504	10.9306	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	198082	11.3907	PPBV		93
6) DICHLORODIFLUOROMETHANE	1.647	85	330825m	10.3850	PPBV		
7) PROPYLENE	1.627	41	106360	9.8716	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	294346	10.3854	PPBV		99
9) FREON 114	1.718	85	333590	10.1593	PPBV		98
10) CHLOROMETHANE	1.689	52	38875	8.5094	PPBV		95
11) VINYL CHLORIDE	1.750	62	141171m	8.7268	PPBV		
12) 1,3-BUTADIENE	1.788	54	109232	8.5488	PPBV		98
13) N-BUTANE	1.801	43	188556	8.7211	PPBV		98
14) BROMOMETHANE	1.859	94	120595	9.6140	PPBV		100
15) CHLOROETHANE	1.907	64	77077	8.7781	PPBV		97
16) DICHLOROFLUOROMETHANE	1.933	67	293626	9.6567	PPBV		99
17) ACETONITRILE	1.997	41	107546	7.1181	PPBV		100
18) ACROLEIN	2.036	56	60096	8.3731	PPBV		98
19) FREON 123	2.049	83	313055	10.2185	PPBV		99
20) FREON 123A	2.068	117	194913	10.7393	PPBV		95
21) TRICHLOROFLUOROMETHANE	2.129	101	360832	10.4292	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	271841	9.2719	PPBV		97
23) ACETONE	2.074	58	71308	8.8957	PPBV		93
24) PENTANE	2.245	42	137594	8.6655	PPBV		97
25) IODOMETHANE	2.303	142	349118	10.9676	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	133461	10.1196	PPBV		93
27) CARBON DISULFIDE	2.463	76	347514	9.2867	PPBV		99
28) ETHANOL	1.936	45	58793	7.5324	PPBV		99
29) BROMOETHENE	2.007	106	126156	10.0176	PPBV		99
30) ACRYLONITRILE	2.213	52	102809	9.1206	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	116850	9.0383	PPBV		91
32) 3-CHLOROPROPENE	2.409	76	62225	8.8210	PPBV		94
33) FREON 113	2.463	151	226512	11.4025	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.689	96	126753	8.7354	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.341	59	282424	7.7102	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	404326	9.7958	PPBV		100
37) TETRAHYDROFURAN	3.470	72	64425	9.6242	PPBV		94
38) HEXANE	3.242	57	266392	9.5817	PPBV		99
39) VINYL ACETATE	2.830	86	39170	9.8733	PPBV		92
40) 1,1-DICHLOROETHANE	2.762	63	279927	9.9793	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	72215	9.5192	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	151940	10.0949	PPBV		97
43) DIISOPROPYL ETHER	3.245	59	75945	9.6346	PPBV		93
44) ETHYL ACETATE	3.251	61	53799	10.0957	PPBV		93
45) METHYL ACRYLATE	3.238	55	325302	9.6696	PPBV	#	99
46) CHLOROFORM	3.264	83	301909	10.3992	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313273	10.0676	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	320180	10.4644	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	344405	10.8654	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	222139	9.8429	PPBV		98
51)	BENZENE	4.129	78	434777	9.7626	PPBV		99
53)	CYCLOHEXANE	4.335	84	196451	10.2634	PPBV		98
54)	2,3-DIMETHYLPENTANE	4.589	71	99309	10.4039	PPBV		100
55)	TRICHLOROETHENE	5.016	95	203186	9.9580	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181676	10.0739	PPBV		99
57)	DIBROMOMETHANE	4.746	174	220157	12.6619	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	408747	10.1261	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	340157	10.3182	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	830339	9.3996	PPBV		100
61)	1,4-DIOXANE	5.029	88	100689	10.4249	PPBV		99
62)	HEPTANE	5.418	43	278969	9.5643	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	165333	10.0873	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	164209	9.3881	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	282530	10.2170	PPBV		96
66)	TOLUENE	7.129	91	547970	10.5482	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	280485	10.7696	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	247201	9.8943	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	160800	10.8626	PPBV		98
70)	2-HEXANONE	7.692	58	221370	9.0703	PPBV		96
71)	ETHYL METHACRYLATE	7.830	69	280723	10.2678	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	253519	13.3791	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	357061	11.8692	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	302895	11.3103	PPBV	#	100
75)	OCTANE	8.997	43	389859	9.9782	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	244269	11.2234	PPBV		97
78)	CHLOROBENZENE	10.045	112	450459	10.8719	PPBV		100
79)	ETHYLBENZENE	10.923	91	751257	11.0651	PPBV		99
80)	M,P-XYLENE	11.347	91	1173523	21.3367	PPBV		99
81)	O-XYLENE	12.277	91	592934	11.1073	PPBV		99
82)	STYRENE	12.068	104	454402	11.3545	PPBV		99
83)	NONANE	13.402	43	413963	9.9623	PPBV		98
84)	BROMOFORM	11.161	173	406068	15.8606	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	423094	11.0646	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	334705	11.1682	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218245	10.7550	PPBV		100
89)	BROMOBENZENE	13.656	77	409590	10.5096	PPBV		87
90)	2-CHLOROTOLUENE	14.785	126	203896	10.7733	PPBV		100
91)	N-PROPYLBENZENE	15.129	120	231345	10.7414	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	877241	11.0060	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	734177	11.0677	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.170	118	351054	10.6708	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	165961	10.2615	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	742070	11.2841	PPBV		100
97)	BENZYL CHLORIDE	16.598	91	548913	10.3318	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	486045	10.7576	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	485602	10.9073	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	457928	10.9261	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	201843	10.4806	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	720134	10.9236	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	221195	10.3336	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218571	10.7104	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	284764	11.3265	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.624	225	569272	19.0986	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	587813	16.4431	PPBV		97
108)	NAPHTHALENE	18.357	128	1114796	13.9014	PPBV		100
110)	TVHC as equiv Pentane	2.245	TIC	677533	9.0245	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

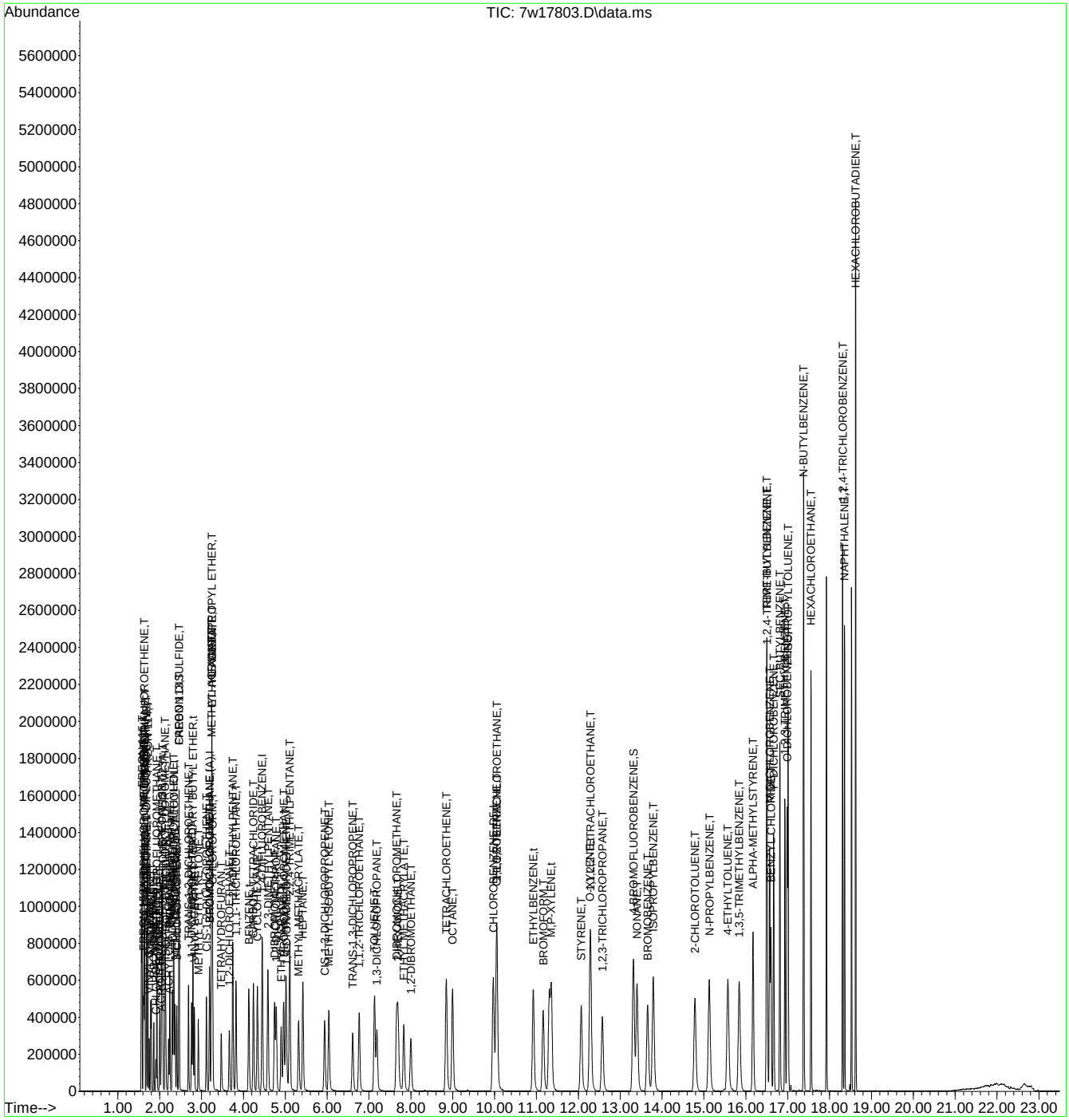
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

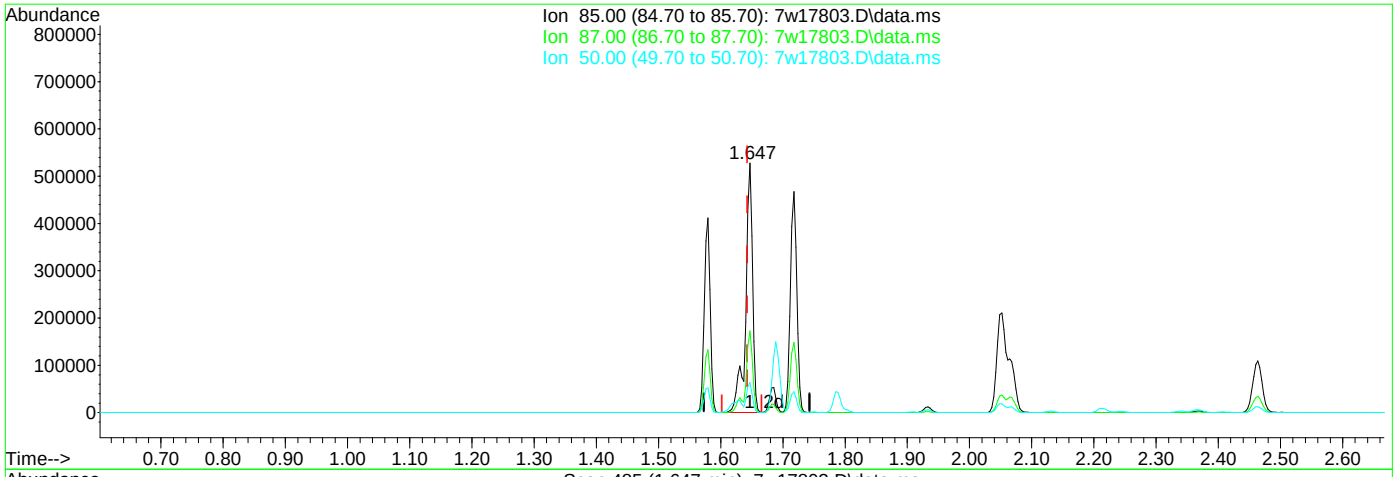
Sample Number: V7W624-BSD
Lab FileID: 7W17803.D
Injection Time: 10/13/25 12:37
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

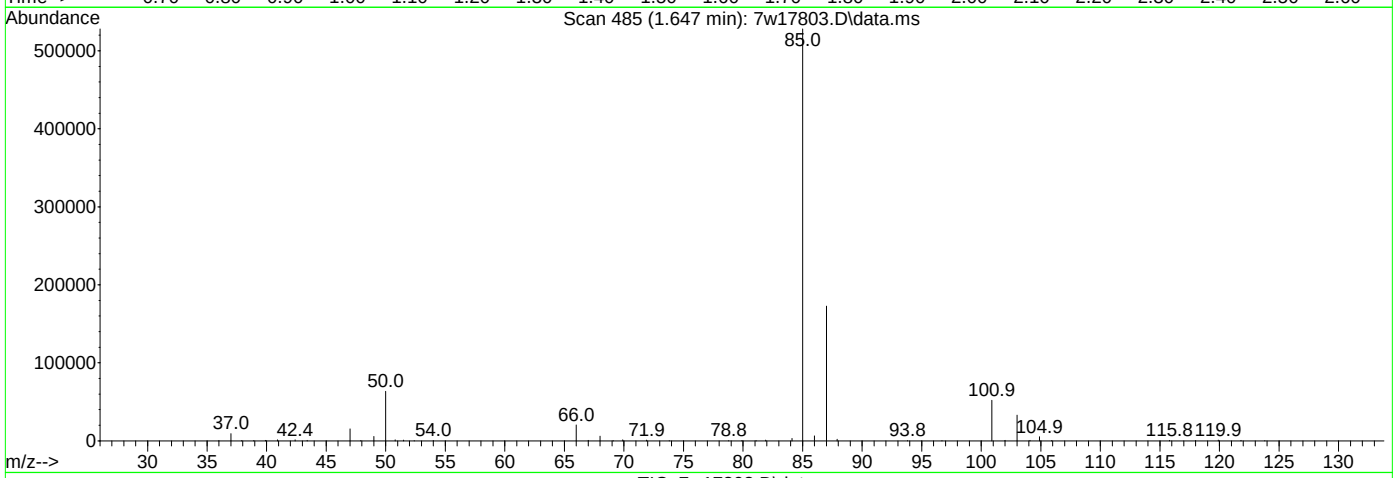
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

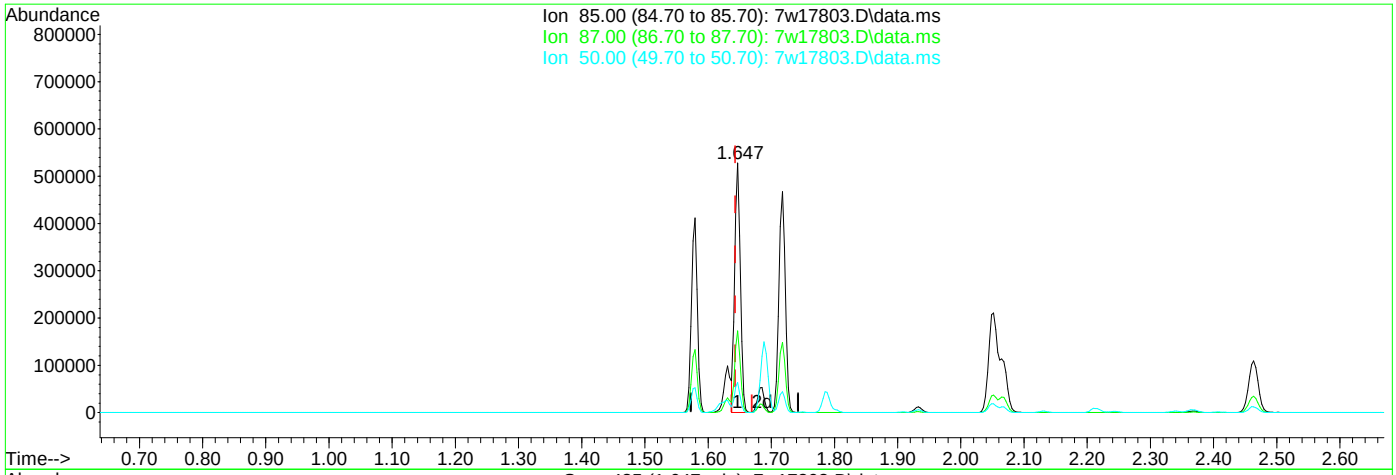
response 406017

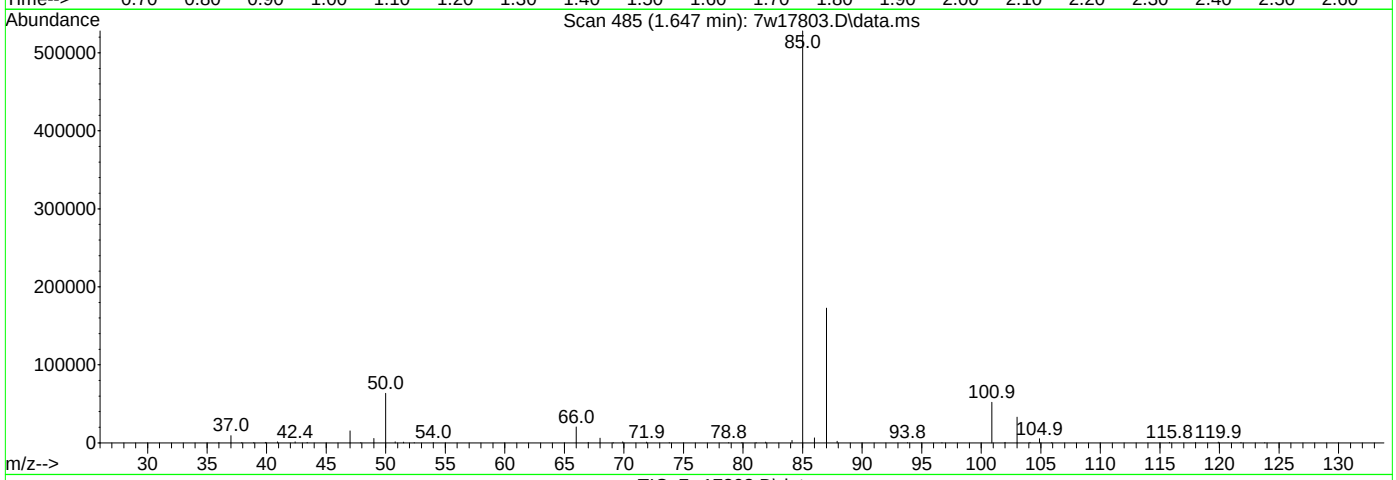
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.62
50.00	19.30	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.39PPBV m

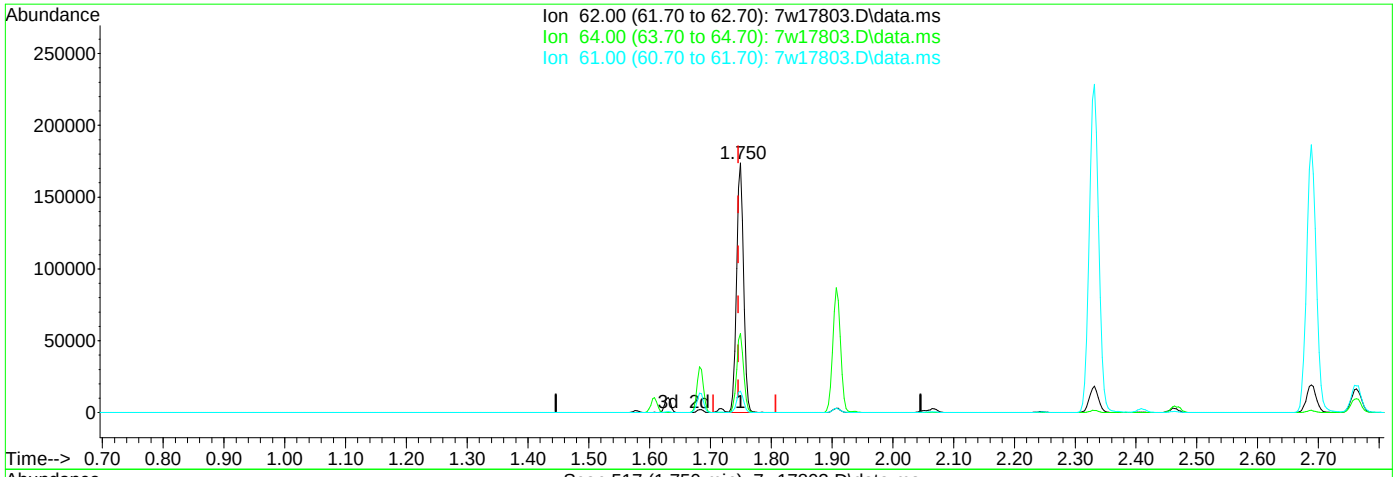
response 330825

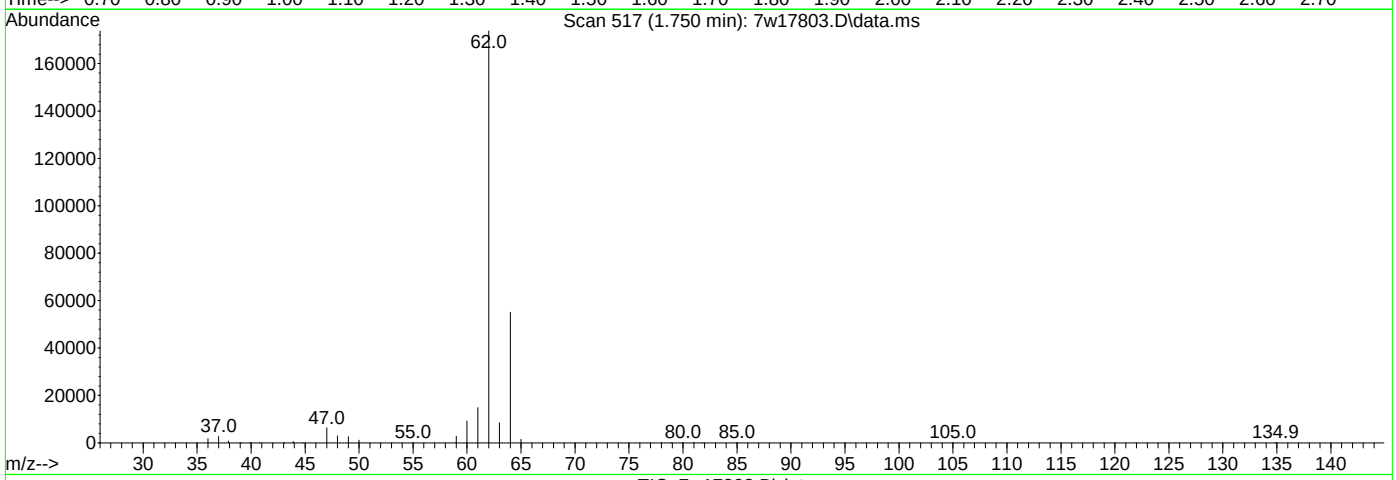
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.03
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.85PPBV

response 143146

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.17
61.00	8.10	8.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
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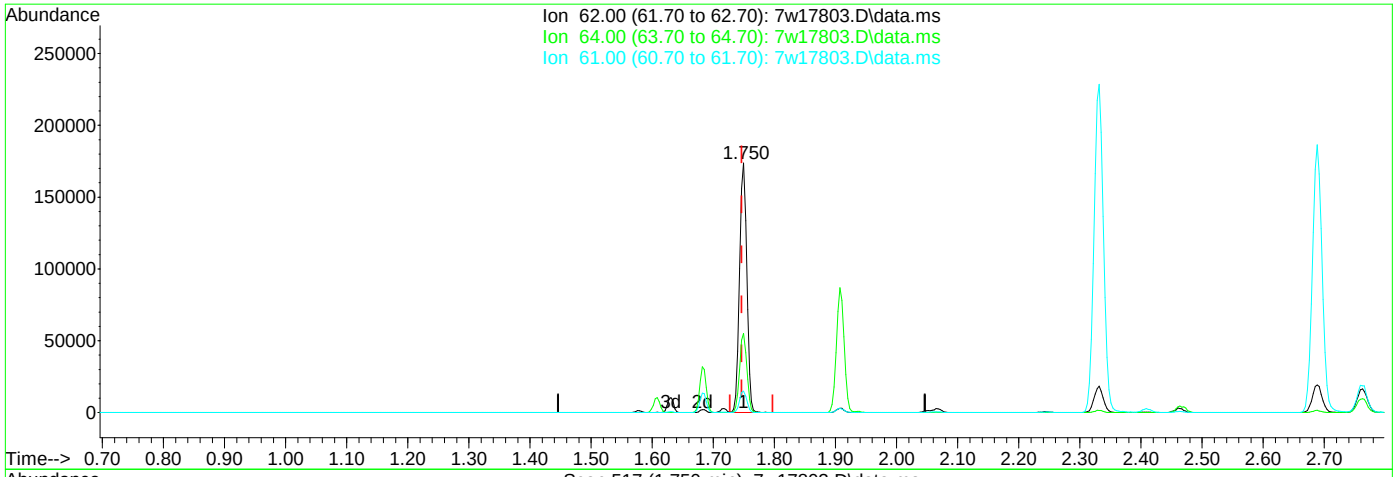
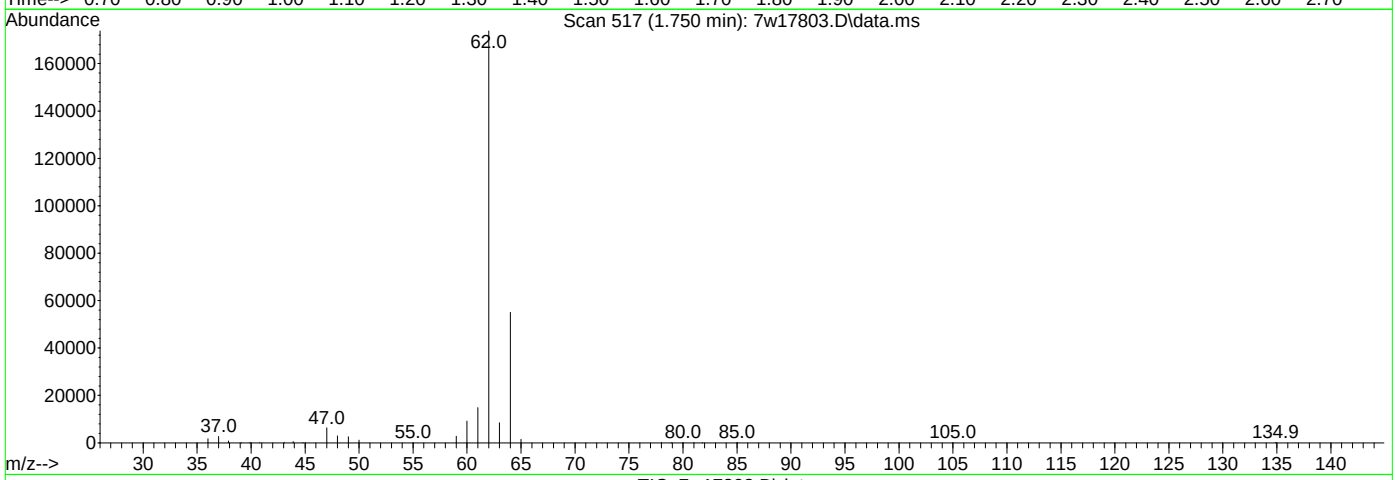
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.73PPBV m

response 141171

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.61
61.00	8.10	8.79
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

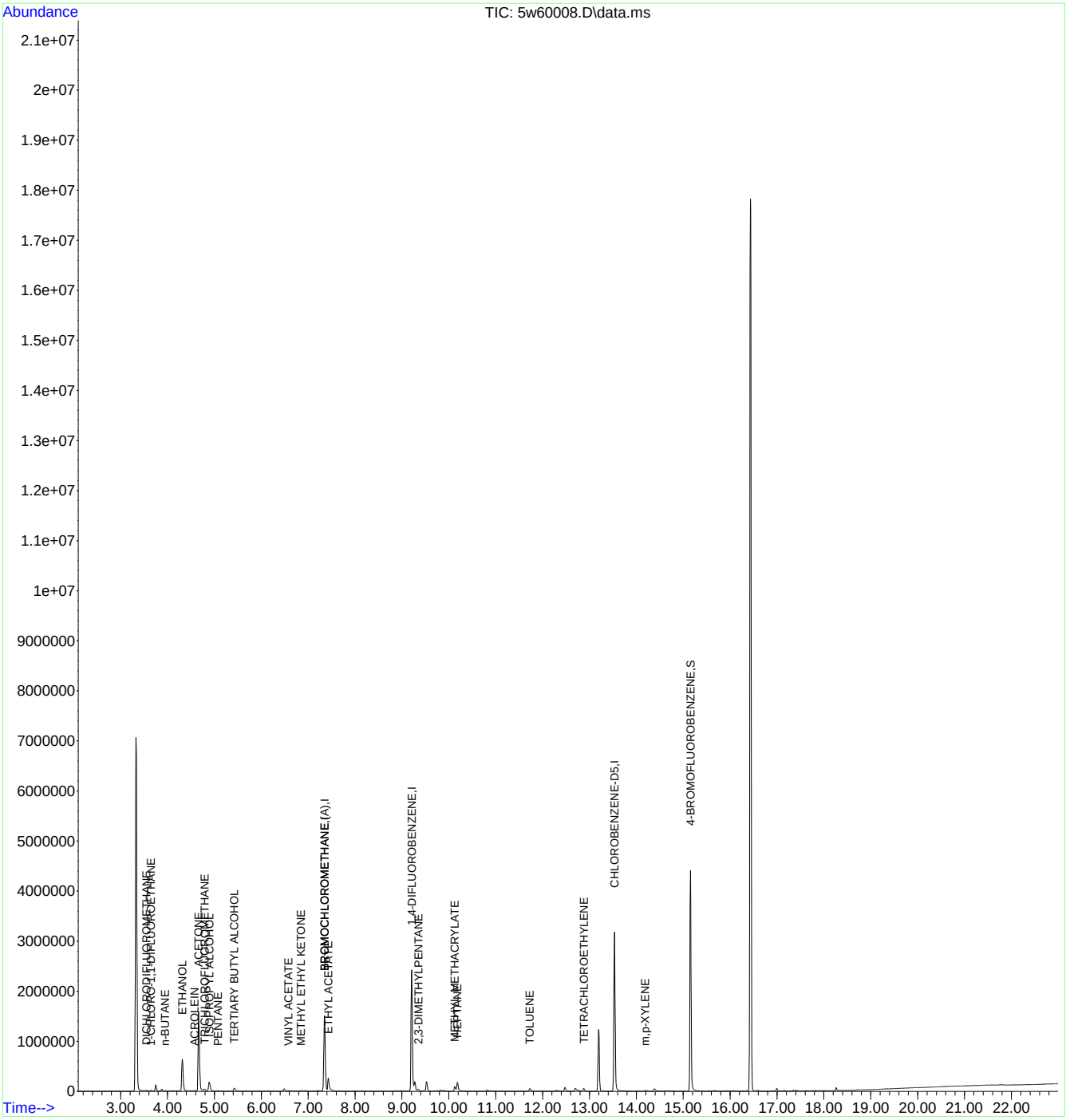
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	490041	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2190031	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1089506	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	490778	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1484212	10.90	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.00%				
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	3.549	85	17723	0.1264	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13929	0.1226	PPBV		96
13) n-BUTANE	3.946	43	4731	0.1013	PPBV		92
18) ACROLEIN	4.577	56	3620	0.2388	PPBV		79
21) TRICHLOROFLUOROMETHANE	4.791	101	31215	0.2606	PPBV		99
22) ISOPROPYL ALCOHOL	4.888	45	300854	3.1308	PPBV		95
23) ACETONE	4.662	58	752725	39.1644	PPBV		89
24) PENTANE	5.072	42	5091	0.1020	PPBV		98
28) ETHANOL	4.313	45	842689	52.3433	PPBV		98
35) TERTIARY BUTYL ALCOHOL	5.421	59	84382	0.8587	PPBV		95
39) VINYL ACETATE	6.577	86	1682	0.2126	PPBV	#	89
41) METHYL ETHYL KETONE	6.840	72	7867	0.4156	PPBV		95
44) ETHYL ACETATE	7.427	61	58928	4.0742	PPBV		94
54) 2,3-DIMETHYLPENTANE	9.342	71	6241	0.2107	PPBV	#	92
62) HEPTANE	10.180	43	107980	1.2790	PPBV		78
63) METHYL METHACRYLATE	10.125	69	55112	1.1525	PPBV	#	73
66) TOLUENE	11.728	92	30163	0.2750	PPBV		94
73) TETRACHLOROETHYLENE	12.878	164	14795	0.1991	PPBV		97
80) m,p-XYLENE	14.194	106	8586	0.1043	PPBV		96

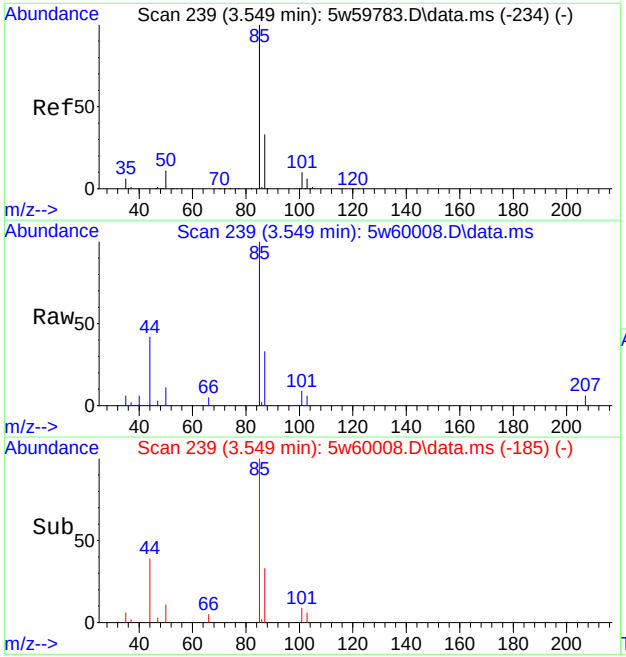
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

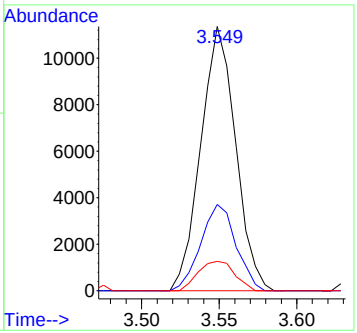


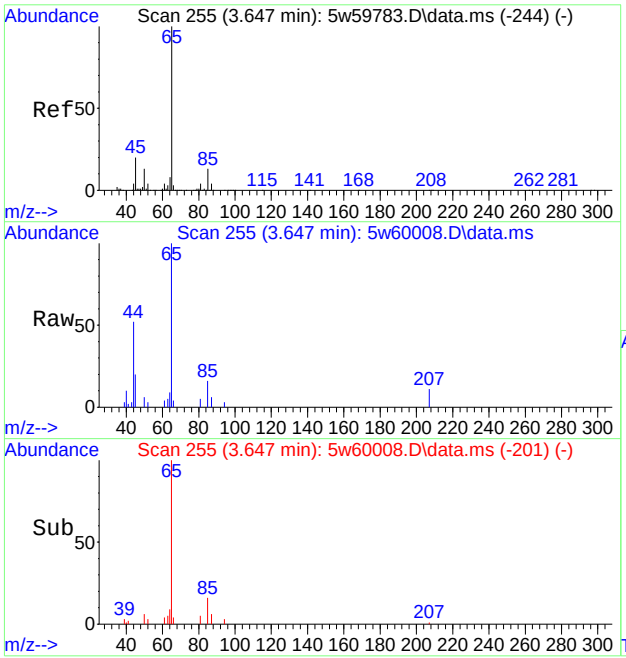


#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 85 Resp: 17723

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

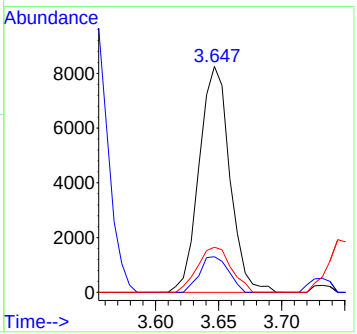


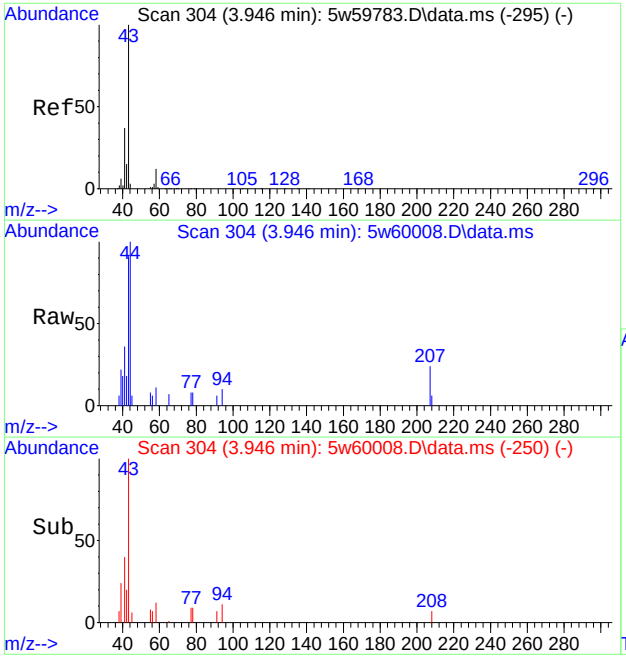


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.12 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 65 Resp: 13929

Ion	Ratio	Lower	Upper
65	100		
85	14.8	11.5	21.3
45	22.0	14.0	26.0

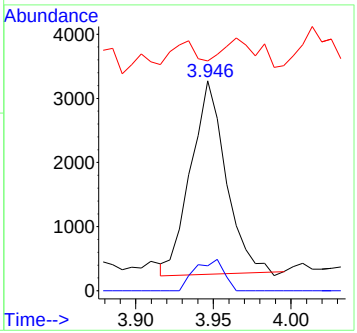


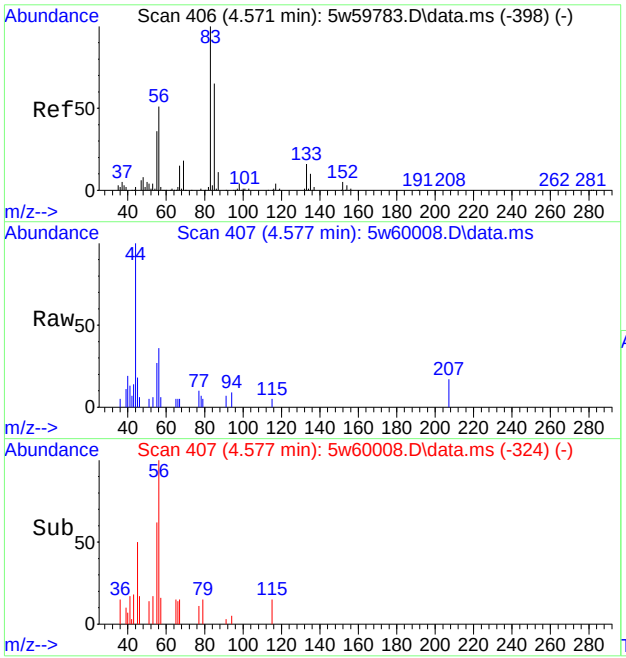


#13
n-BUTANE
Concen: 0.10 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 4731

Ion	Ratio	Lower	Upper
43	100		
58	13.4	0.0	42.6
44	13.1	0.0	34.9

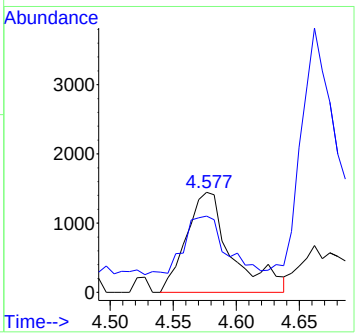


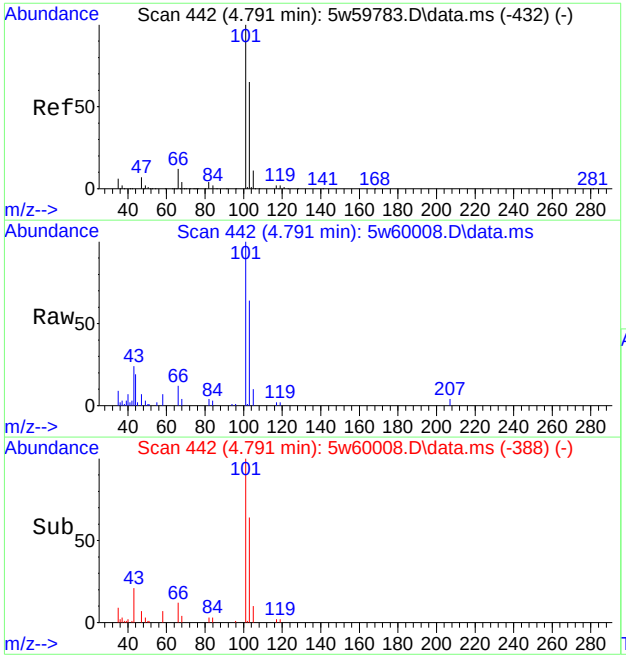


#18
ACROLEIN
Concen: 0.24 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 56 Resp: 3620

Ion	Ratio	Lower	Upper
56	100		
55	50.0	46.6	86.6

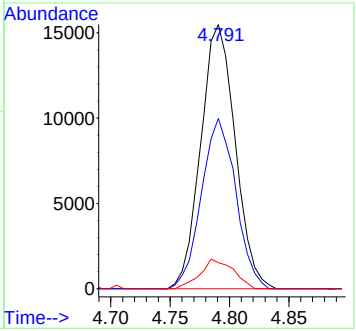


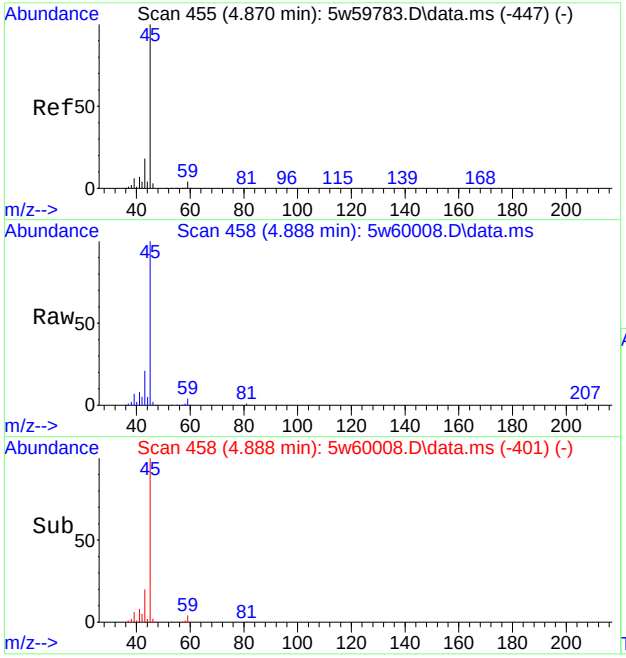


#21
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:101 Resp: 31215

Ion	Ratio	Lower	Upper
101	100		
103	64.1	35.0	95.0
105	10.8	0.0	40.7

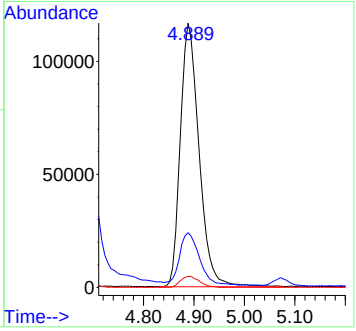


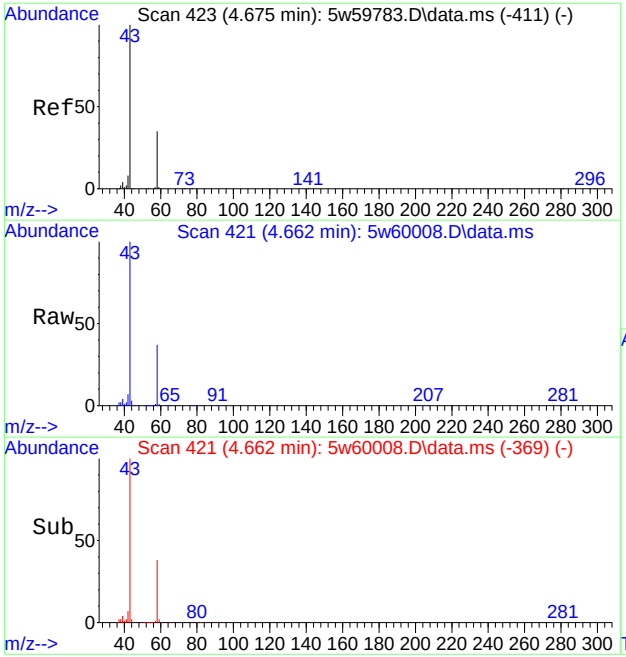


#22
ISOPROPYL ALCOHOL
Concen: 3.13 PPBV
RT: 4.888 min Scan# 458
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 300854

Ion	Ratio	Lower	Upper
45	100		
43	20.7	0.0	47.8
59	4.1	0.0	34.1

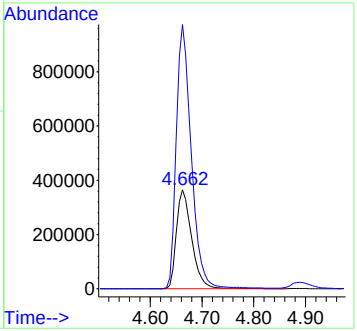


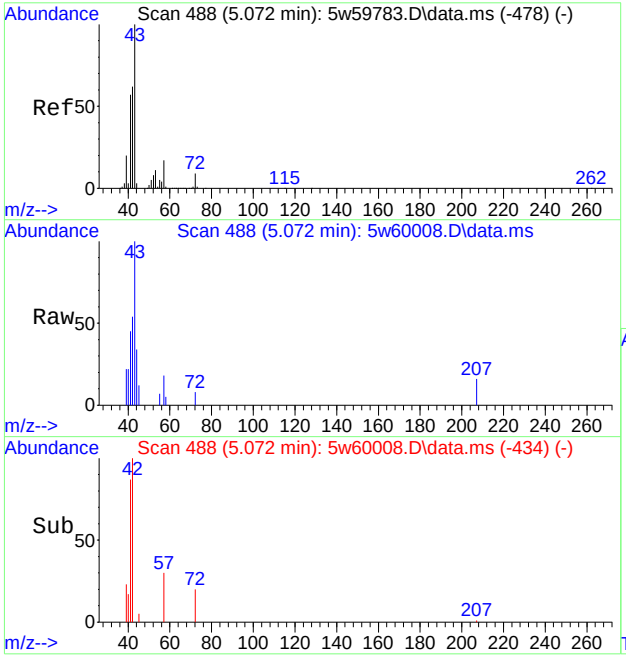


#23
ACETONE
Concen: 39.16 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 58 Resp: 752725

Ion	Ratio	Lower	Upper
58	100		
43	261.3	252.3	312.3

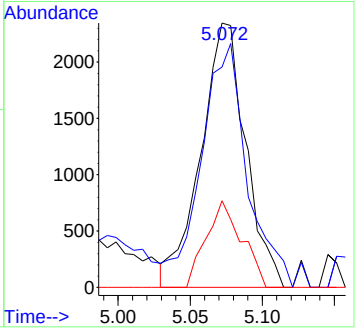


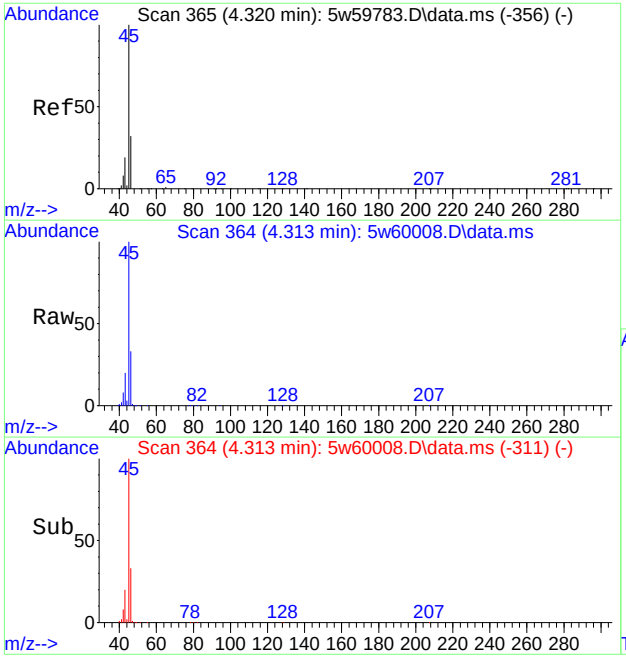


#24
PENTANE
Concen: 0.10 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 42 Resp: 5091

Ion	Ratio	Lower	Upper
42	100		
41	93.8	62.3	122.3
57	26.0	0.0	57.7

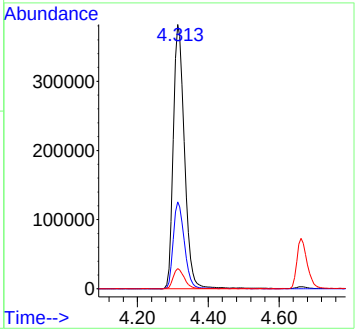


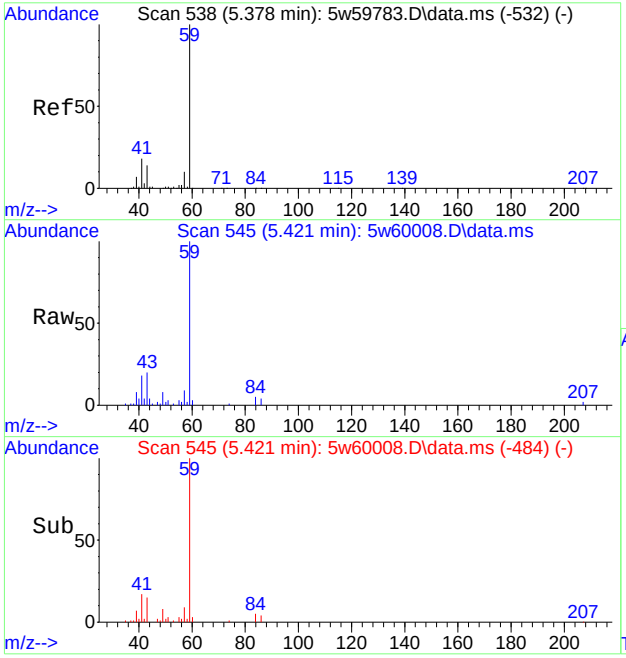


#28
ETHANOL
Concen: 52.34 PPBV
RT: 4.313 min Scan# 364
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 842689

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	7.8	0.0	38.5

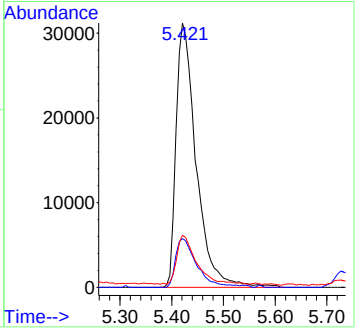


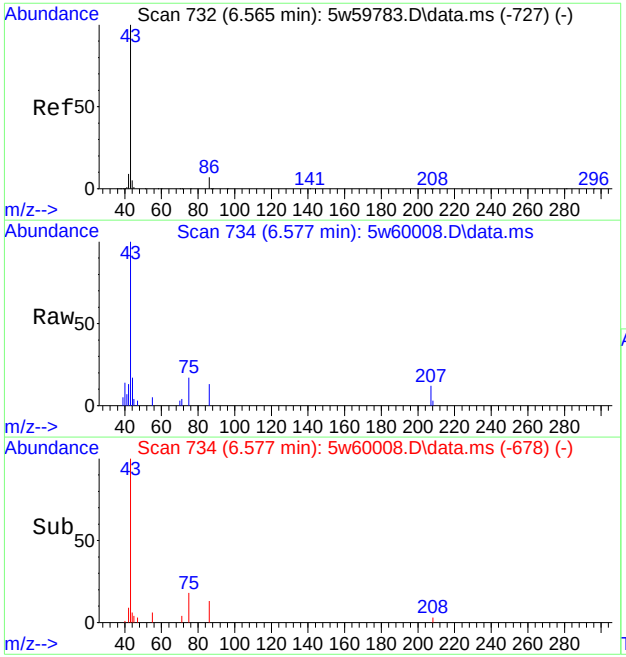


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.86 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 59 Resp: 84382

Ion	Ratio	Lower	Upper
59	100		
41	19.7	0.0	49.3
43	18.9	0.0	44.1

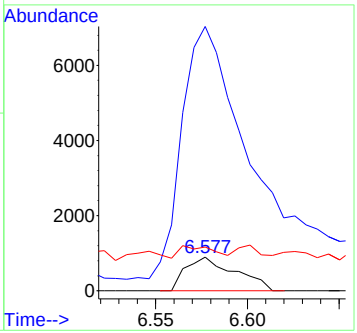


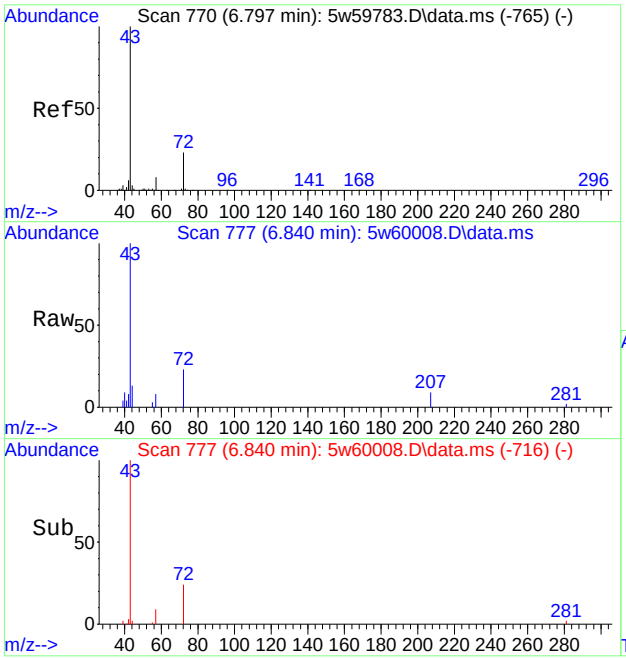


#39
VINYL ACETATE
Concen: 0.21 PPBV
RT: 6.577 min Scan# 734
Delta R.T. 0.012 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 86 Resp: 1682

Ion	Ratio	Lower	Upper
86	100		
43	1459.6	1379.7	1439.7#
44	24.5	36.9	96.9#

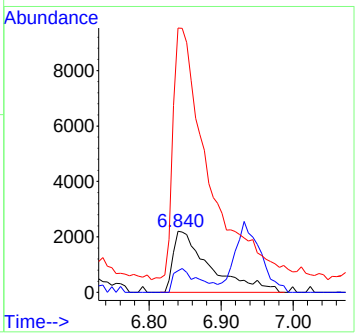


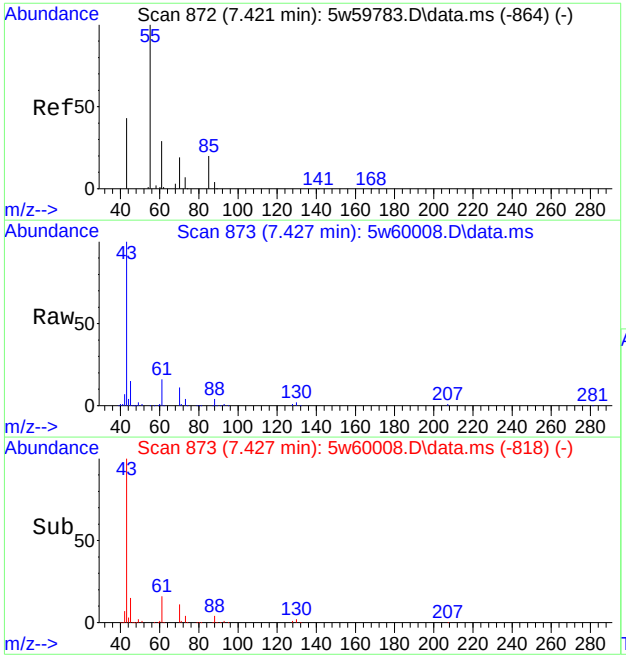


#41
METHYL ETHYL KETONE
Concen: 0.42 PPBV
RT: 6.840 min Scan# 777
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 72 Resp: 7867

Ion	Ratio	Lower	Upper
72	100		
57	35.4	4.8	64.8
43	431.7	415.9	475.9

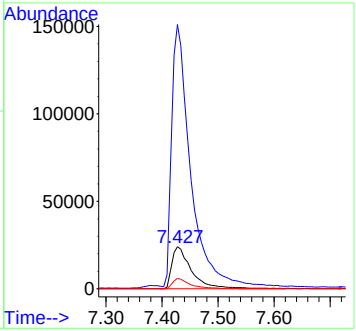


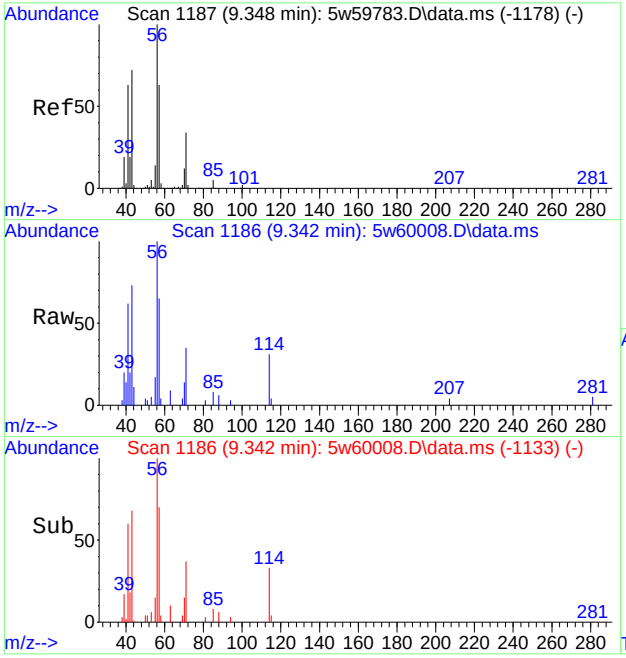


#44
ETHYL ACETATE
Concen: 4.07 PPBV
RT: 7.427 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 61 Resp: 58928

Ion	Ratio	Lower	Upper
61	100		
43	606.5	560.5	620.5
88	22.1	4.5	64.5

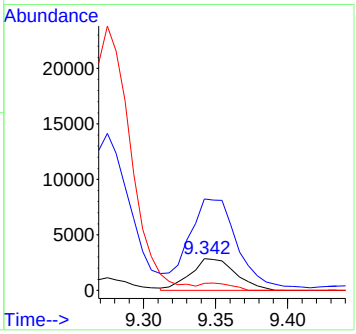


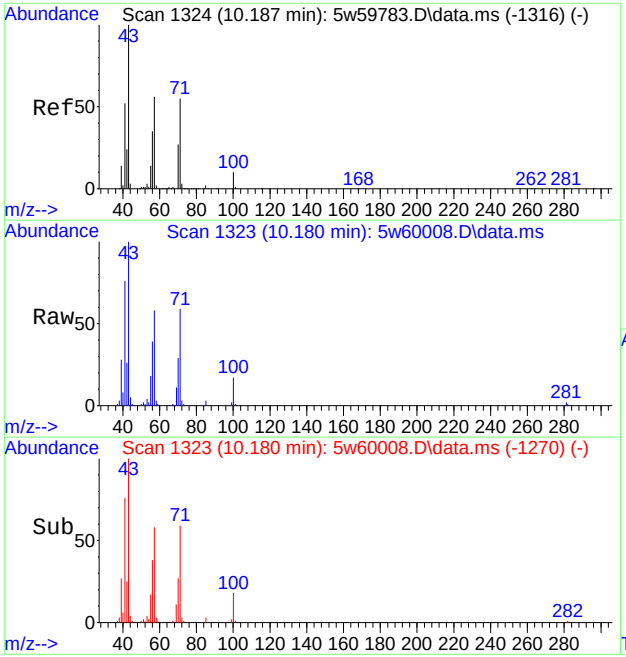


#54
2,3-DIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 71 Resp: 6241

Ion	Ratio	Lower	Upper
71	100		
56	306.2	264.6	324.6
85	0.0	0.0	45.3

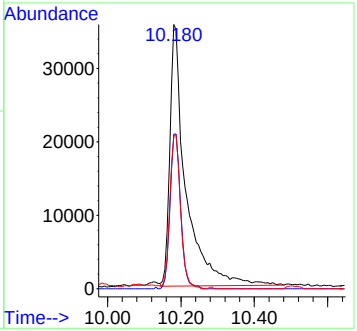


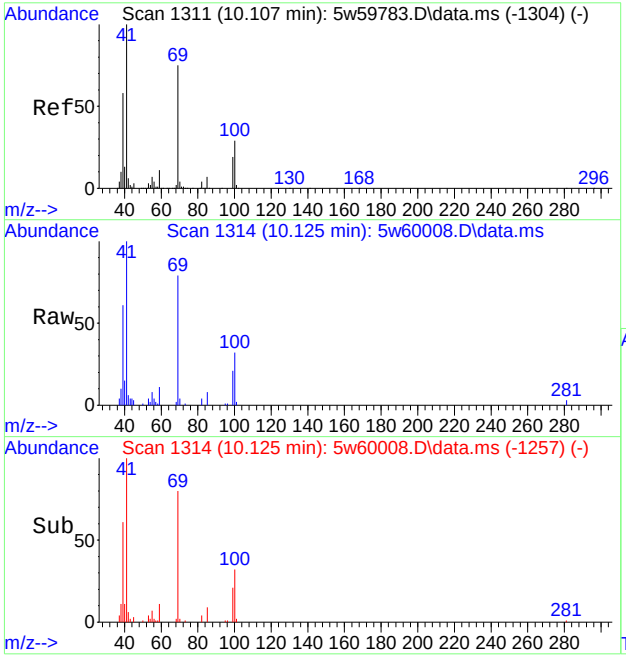


#62
HEPTANE
Concen: 1.28 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 107980

Ion	Ratio	Lower	Upper
43	100		
71	39.3	24.5	84.5
57	39.6	26.2	86.2

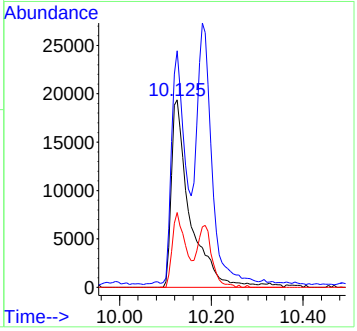


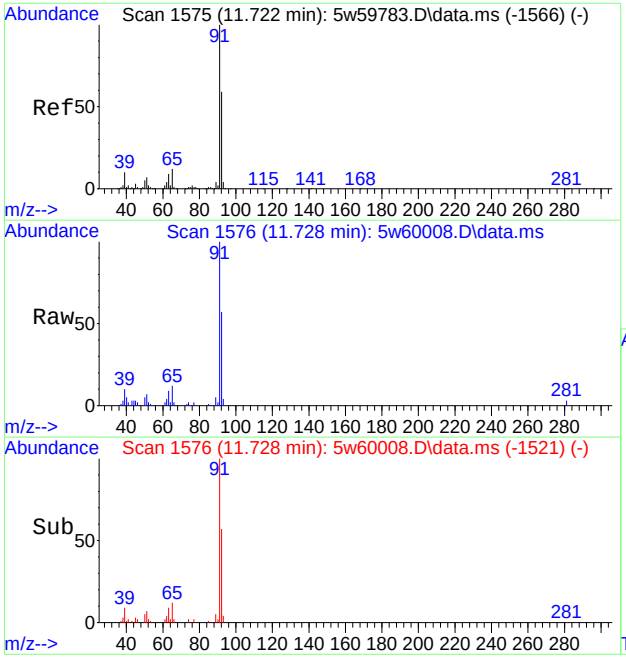


#63
METHYL METHACRYLATE
Concen: 1.15 PPBV
RT: 10.125 min Scan# 1314
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 69 Resp: 55112

Ion	Ratio	Lower	Upper
69	100		
41	90.0	95.3	155.3#
100	29.5	6.3	66.3

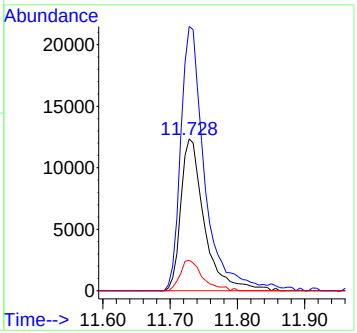


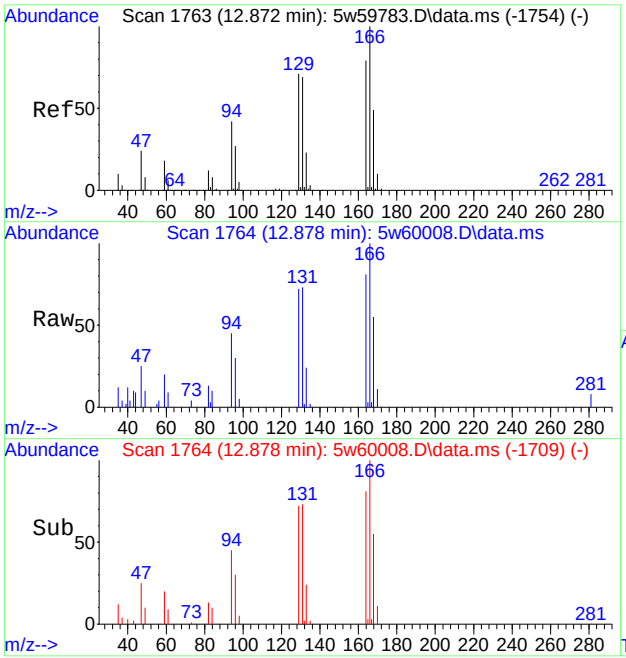


#66
TOLUENE
Concen: 0.28 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 92 Resp: 30163

Ion	Ratio	Lower	Upper
92	100		
91	177.8	140.1	200.1
65	19.2	0.0	53.1

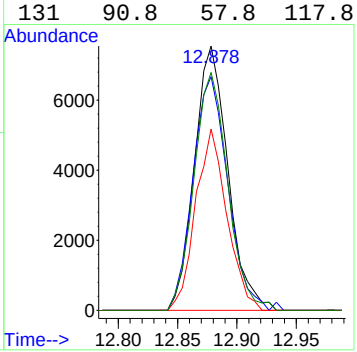


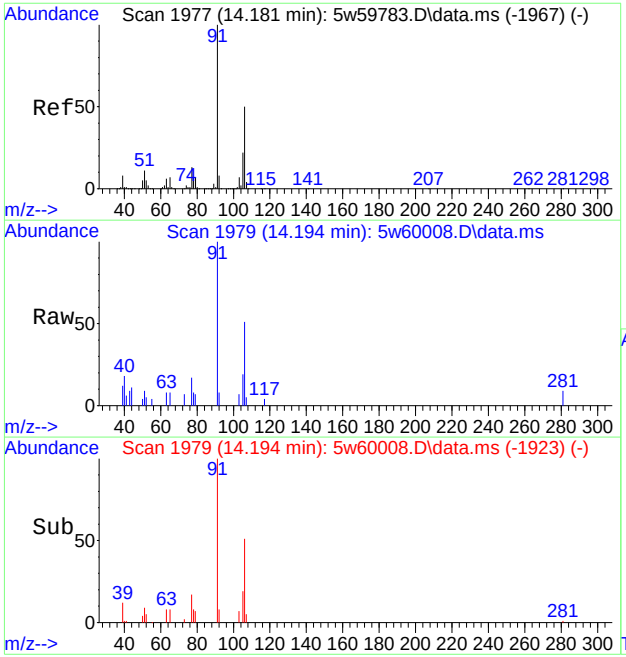


#73
TETRACHLOROETHYLENE
Concen: 0.20 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:164 Resp: 14795

Ion	Ratio	Lower	Upper
164	100		
129	92.6	59.7	119.7
168	64.1	32.2	92.2
131	90.8	57.8	117.8

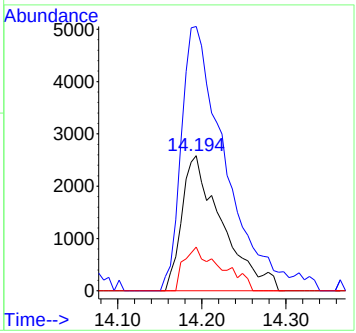




#80
m,p-XYLENE
Concen: 0.10 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:106 Resp: 8586

Ion	Ratio	Lower	Upper
106	100		
91	195.5	171.0	231.0
77	32.4	0.0	56.7



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60041.D
Acq On : 25 Nov 2025 5:18 pm
Operator : benk
Sample : je23836-1dup Inst : GCMS5W
Misc : MS99497,V5W2302,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 27 01:00:00 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

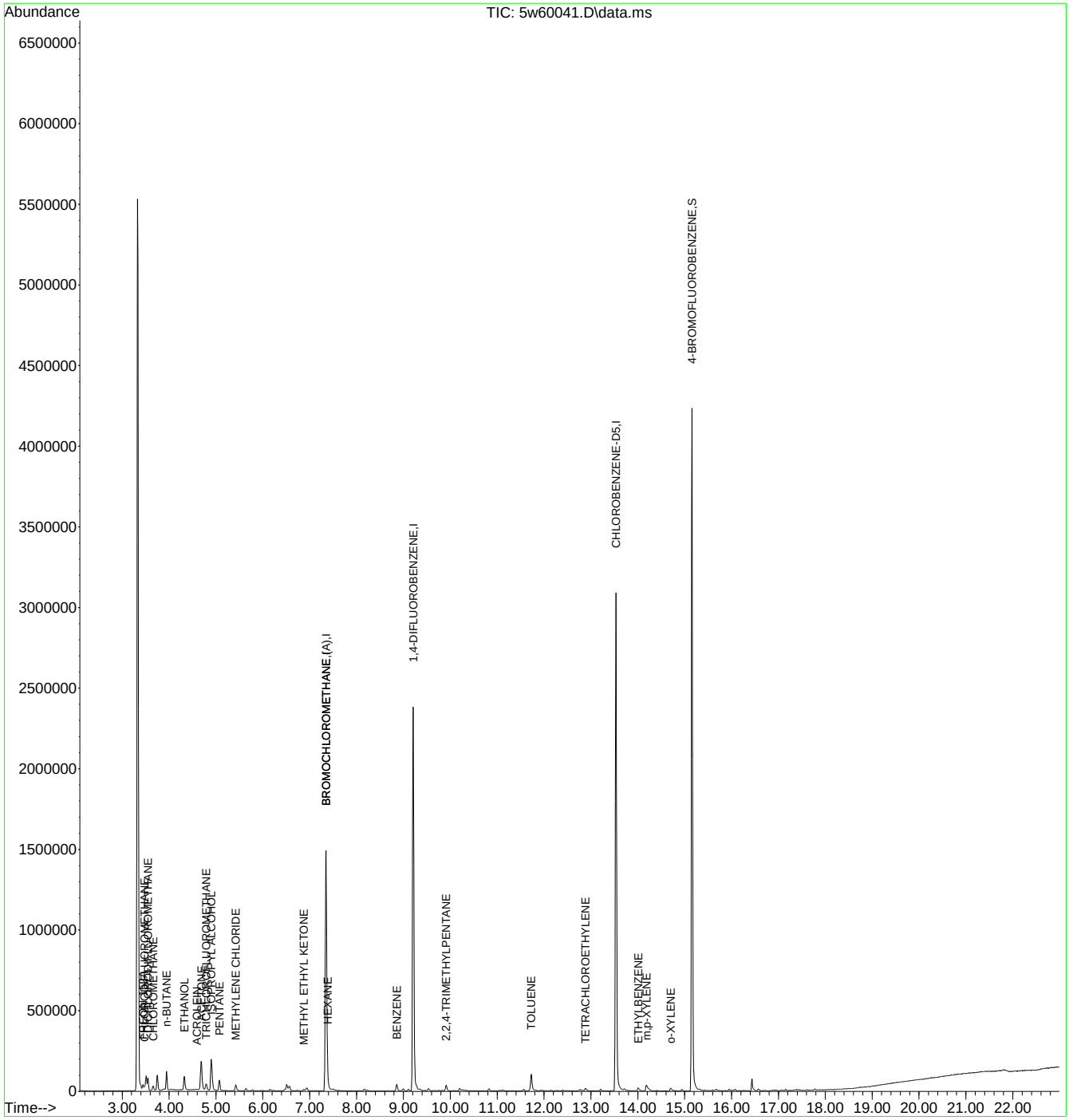
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	486599	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2151791	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1070377	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	487286	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1416491	10.59	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 105.90%			
Target Compounds						Qvalue
3) FREON 152A	3.445	65	10901	0.3021	PPBV	81
4) CHLORODIFLUOROMETHANE	3.476	67	4620	0.3060	PPBV	87
6) DICHLORODIFLUOROMETHANE	3.549	85	70065	0.5031	PPBV	100
10) CHLOROMETHANE	3.659	52	7995	0.5228	PPBV	91
13) n-BUTANE	3.947	43	99285	2.1409	PPBV	97
18) ACROLEIN	4.595	56	2698	0.1792	PPBV	93
21) TRICHLOROFLUOROMETHANE	4.791	101	32626	0.2743	PPBV	99
22) ISOPROPYL ALCOHOL	4.901	45	303427	3.1799	PPBV	96
23) ACETONE	4.693	58	67636	3.5440	PPBV	96
24) PENTANE	5.072	42	28098	0.5668	PPBV	96
28) ETHANOL	4.326	45	111732	6.9893	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	14831	0.3038	PPBV	92
38) HEXANE	7.385	57	23013	0.2962	PPBV #	79
41) METHYL ETHYL KETONE	6.877	72	5153	0.2742	PPBV #	68
52) BENZENE	8.859	78	43878	0.3044	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	9.911	57	35896	0.1573	PPBV	92
66) TOLUENE	11.728	92	58477	0.5427	PPBV	95
73) TETRACHLOROETHYLENE	12.879	164	4049	0.0555	PPBV	94
79) ETHYLBENZENE	14.010	91	24325	0.1186	PPBV	97
80) m,p-XYLENE	14.188	106	22444	0.2776	PPBV	95
81) o-XYLENE	14.702	106	7886	0.1042	PPBV	96

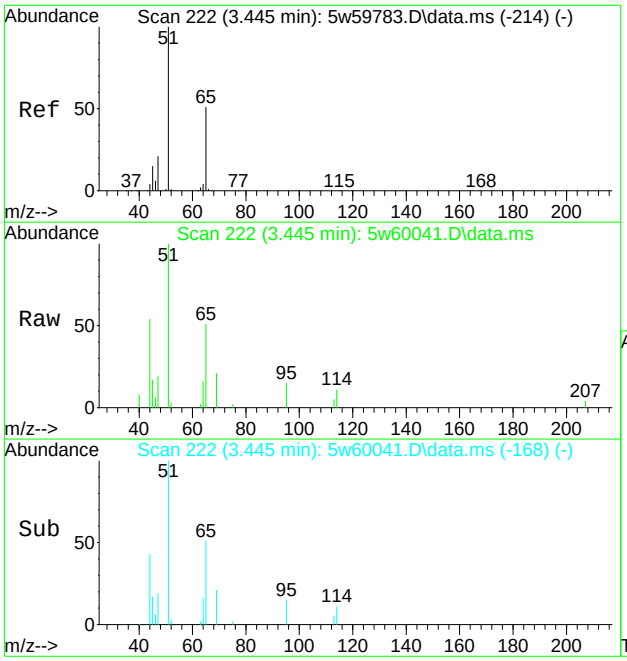
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60041.D
Acq On : 25 Nov 2025 5:18 pm
Operator : benk
Sample : je23836-1dup Inst : GCMS5W
Misc : MS99497,V5W2302,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 27 01:00:00 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

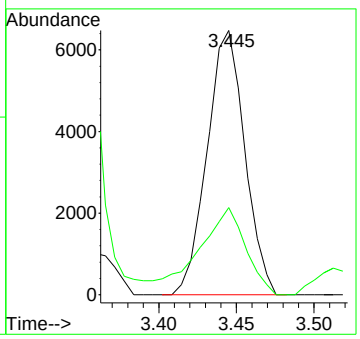


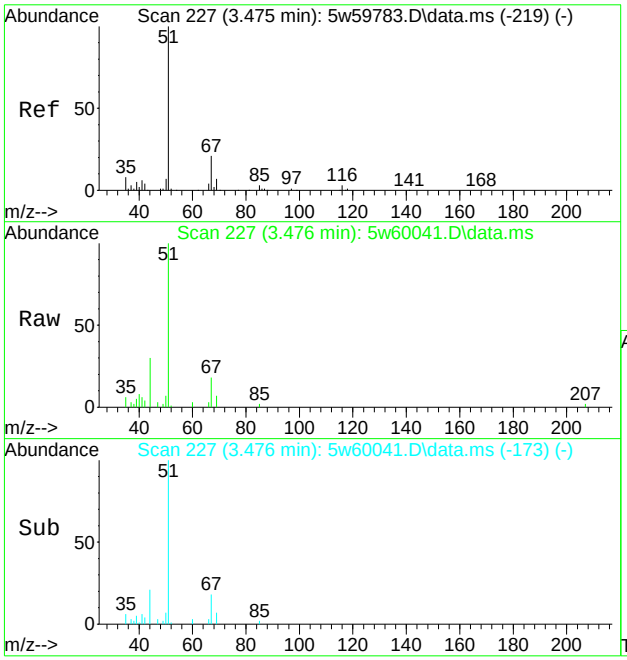


#3
FREON 152A
Concen: 0.3021 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 65 Resp: 10901

Ion	Ratio	Lower	Upper
65	100		
45	40.2	0.0	60.0

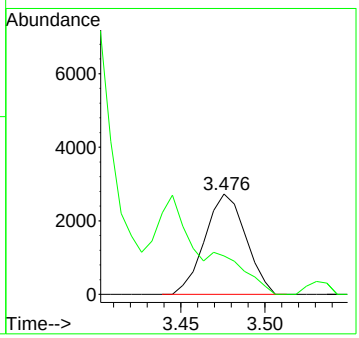


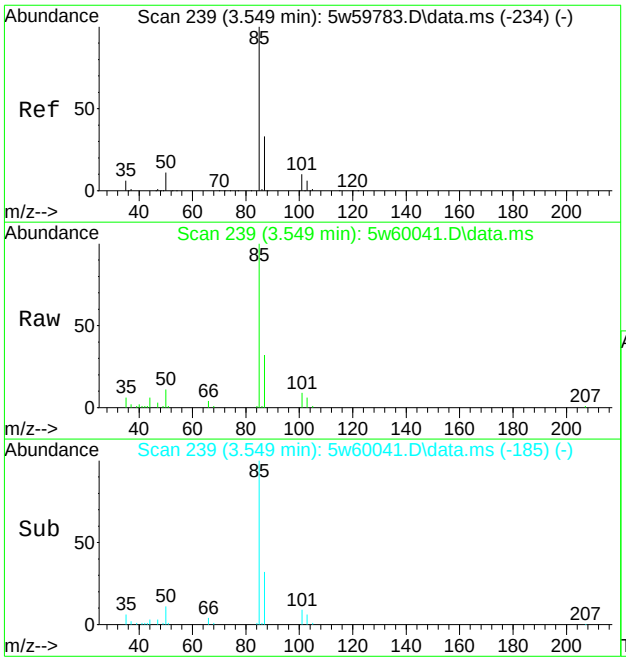


#4
CHLORODIFLUOROMETHANE
Concen: 0.3060 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 67 Resp: 4620

Ion	Ratio	Lower	Upper
67	100		
69	38.4	1.0	61.0

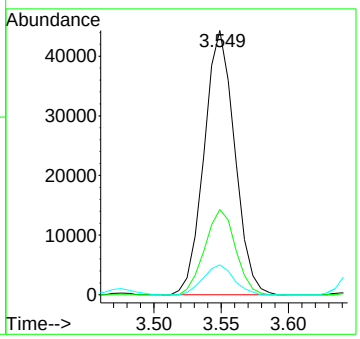


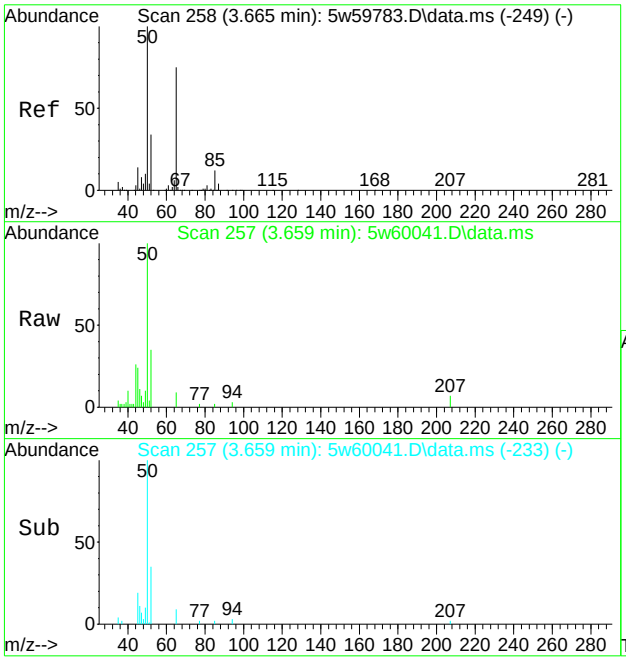


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5031 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 85 Resp: 70065

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	11.3	0.0	41.7

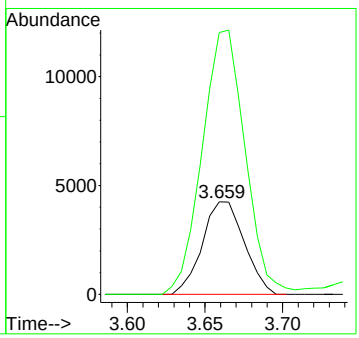


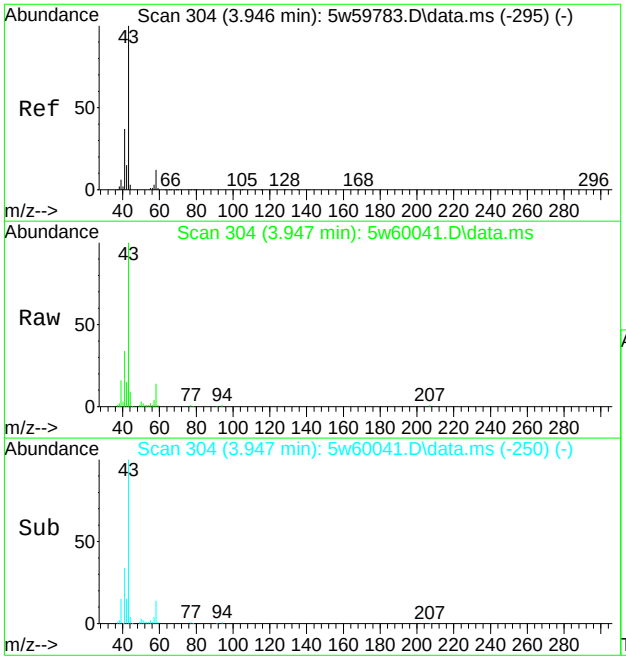


#10
CHLOROMETHANE
Concen: 0.5228 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 52 Resp: 7995

Ion	Ratio	Lower	Upper
52	100		
50	279.5	267.9	327.9

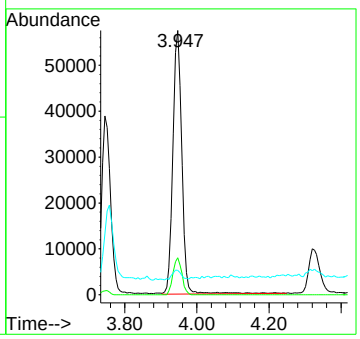


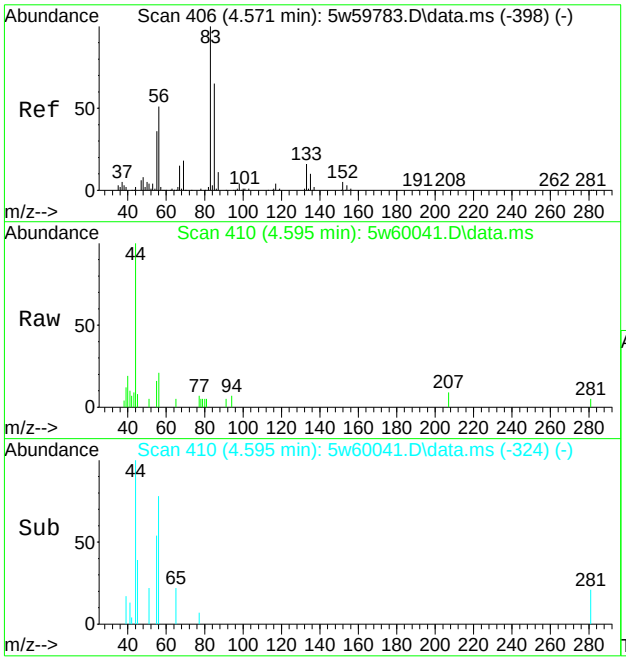


#13
n-BUTANE
Concen: 2.1409 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 43 Resp: 99285

Ion	Ratio	Lower	Upper
43	100		
58	13.9	0.0	42.6
44	3.8	0.0	34.9

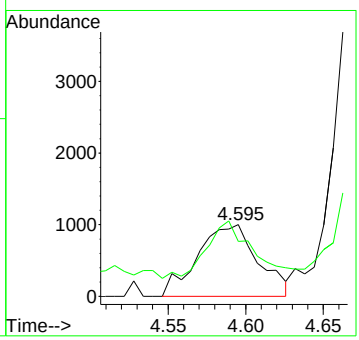


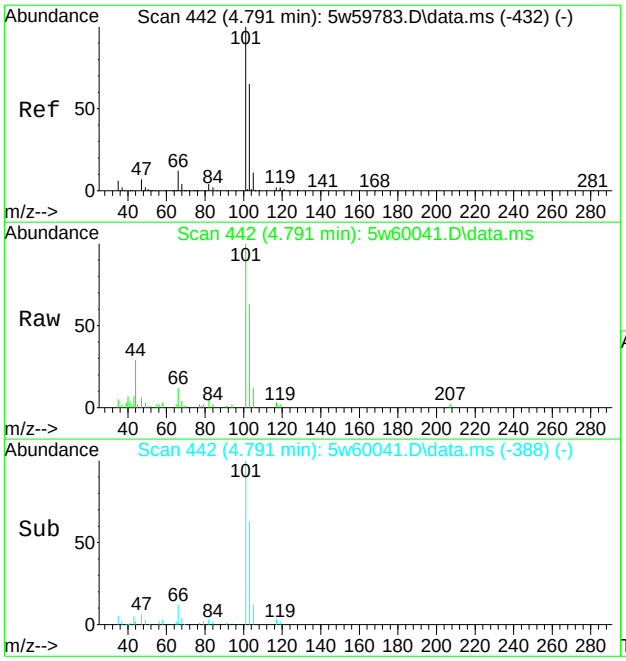


#18
ACROLEIN
Concen: 0.1792 PPBV
RT: 4.595 min Scan# 410
Delta R.T. 0.024 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 56 Resp: 2698

Ion	Ratio	Lower	Upper
56	100		
55	60.9	46.6	86.6

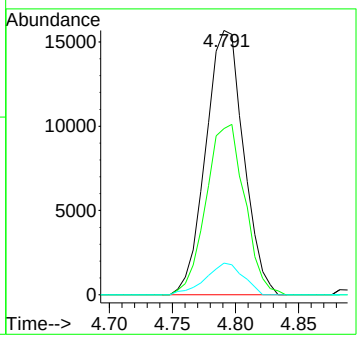


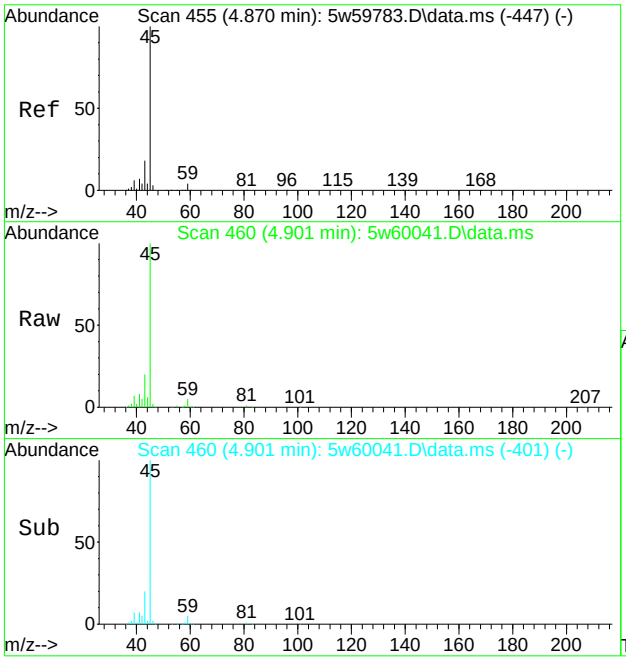


#21
TRICHLOROFLUOROMETHANE
Concen: 0.2743 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion:101 Resp: 32626

Ion	Ratio	Lower	Upper
101	100		
103	65.8	35.0	95.0
105	11.9	0.0	40.7

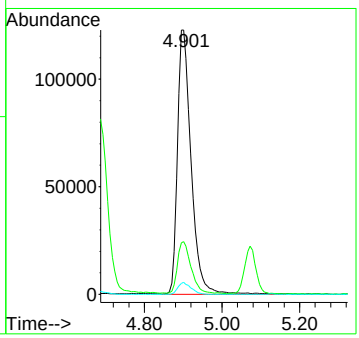


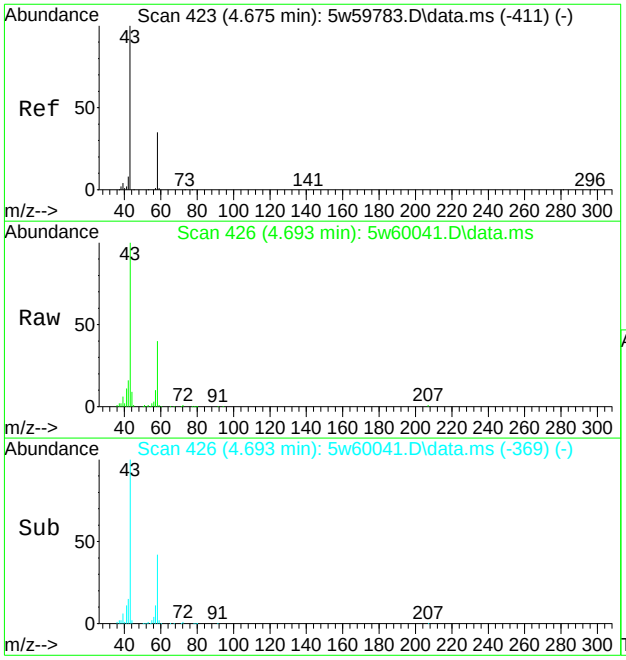


#22
ISOPROPYL ALCOHOL
Concen: 3.1799 PPBV
RT: 4.901 min Scan# 460
Delta R.T. 0.031 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 45 Resp: 303427

Ion	Ratio	Lower	Upper
45	100		
43	20.0	0.0	47.8
59	4.5	0.0	34.1

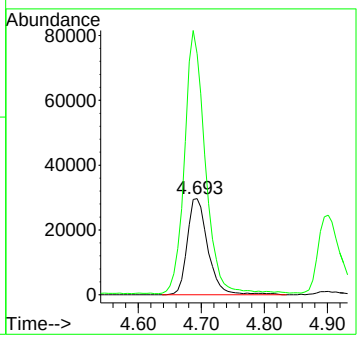


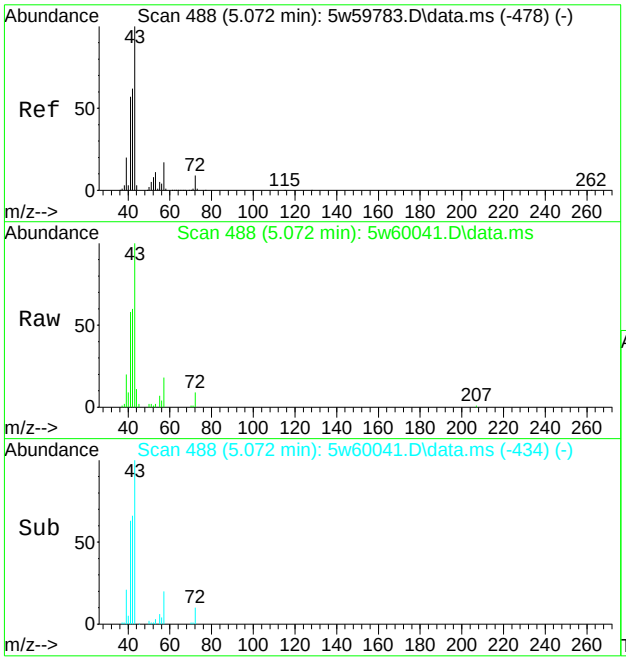


#23
ACETONE
Concen: 3.5440 PPBV
RT: 4.693 min Scan# 426
Delta R.T. 0.018 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 58 Resp: 67636

Ion	Ratio	Lower	Upper
58	100		
43	274.2	252.3	312.3

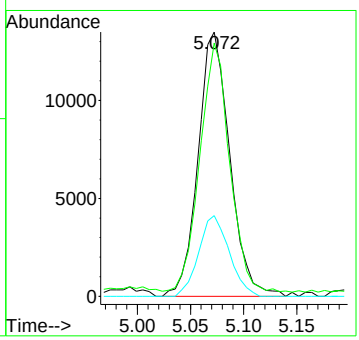


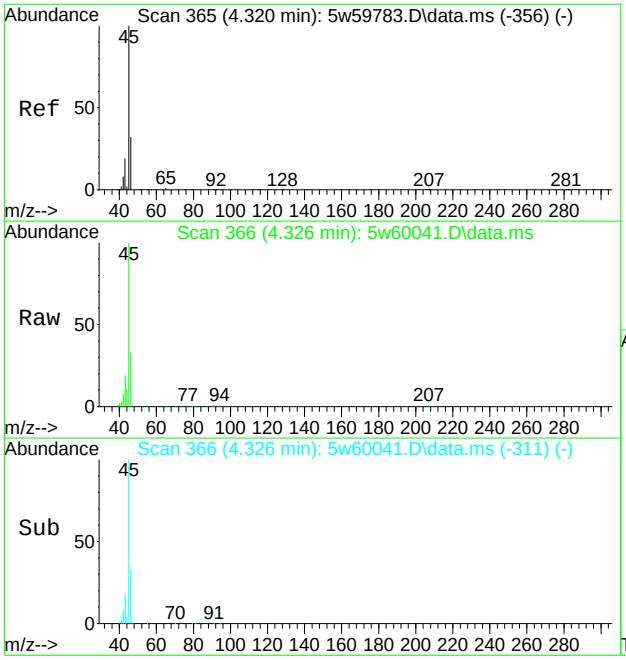


#24
PENTANE
Concen: 0.5668 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 42 Resp: 28098

Ion	Ratio	Lower	Upper
42	100		
41	96.7	62.3	122.3
57	29.3	0.0	57.7

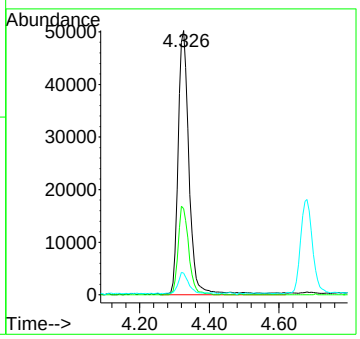


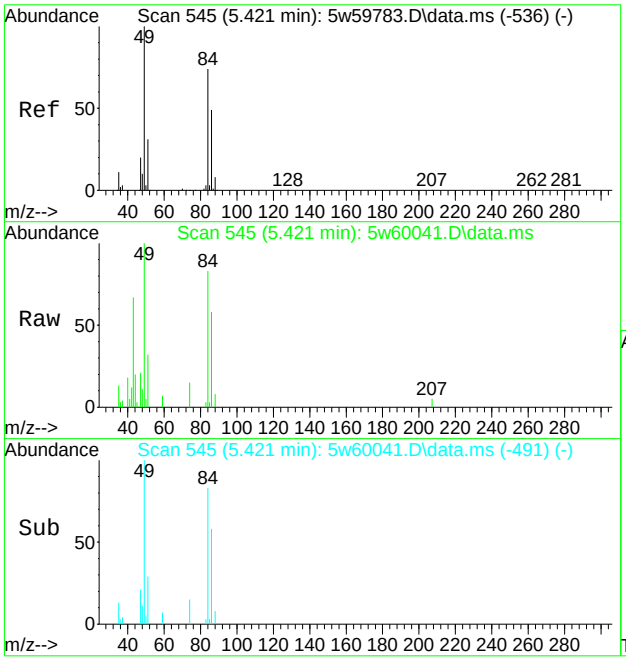


#28
ETHANOL
Concen: 6.9893 PPBV
RT: 4.326 min Scan# 366
Delta R.T. 0.006 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 45 Resp: 111732

Ion	Ratio	Lower	Upper
45	100		
46	31.9	2.0	62.0
42	10.2	0.0	38.5

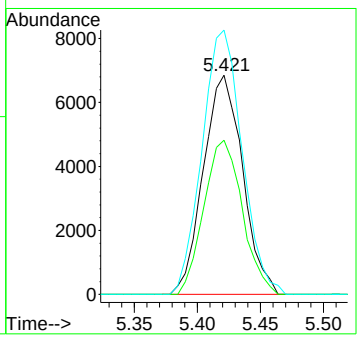


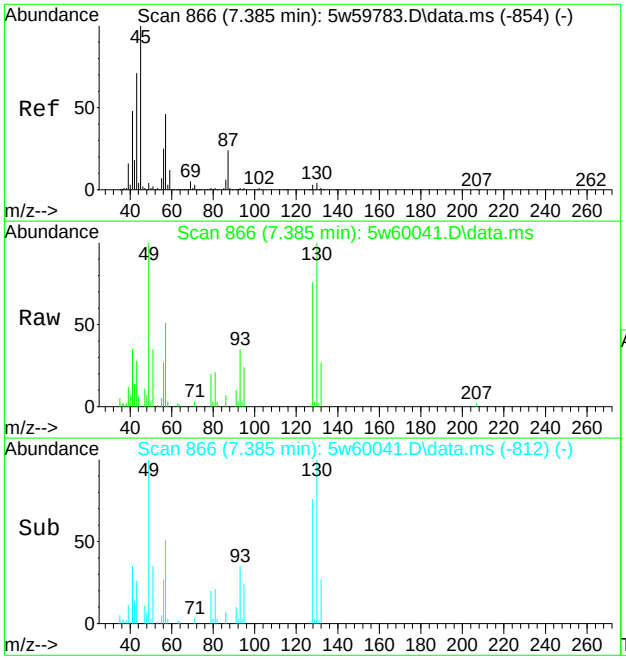


#31
METHYLENE CHLORIDE
Concen: 0.3038 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 84 Resp: 14831

Ion	Ratio	Lower	Upper
84	100		
86	68.6	35.2	95.2
49	122.8	105.3	165.3

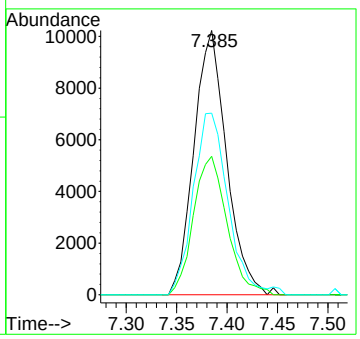


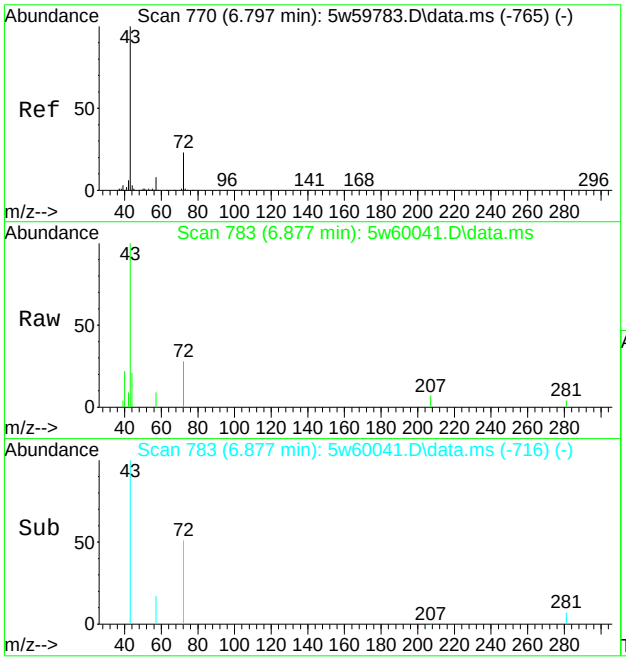


#38
HEXANE
Concen: 0.2962 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 57 Resp: 23013

Ion	Ratio	Lower	Upper
57	100		
56	53.9	25.9	85.9
41	73.5	74.7	134.7#

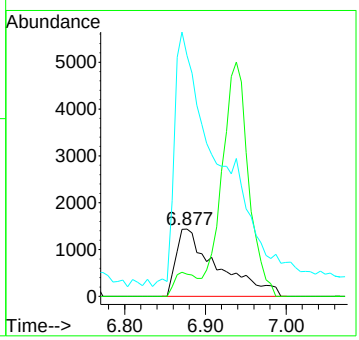


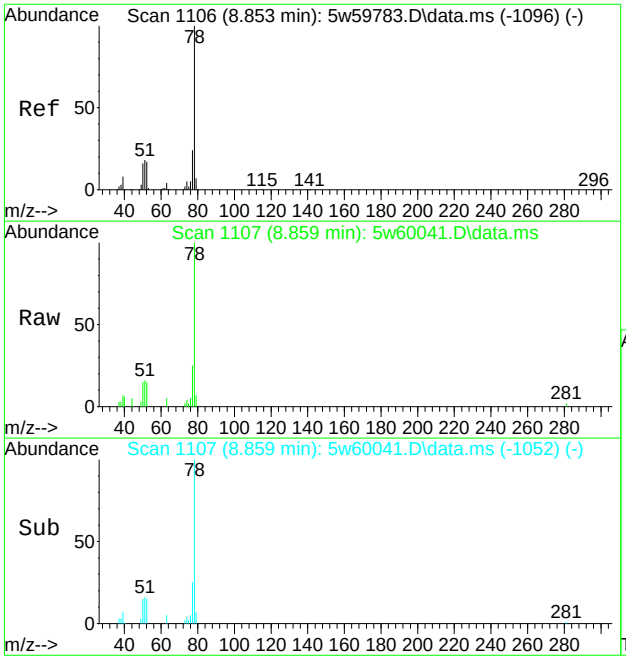


#41
METHYL ETHYL KETONE
Concen: 0.2742 PPBV
RT: 6.877 min Scan# 783
Delta R.T. 0.080 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 72 Resp: 5153

Ion	Ratio	Lower	Upper
72	100		
57	33.0	4.8	64.8
43	357.6	415.9	475.9#

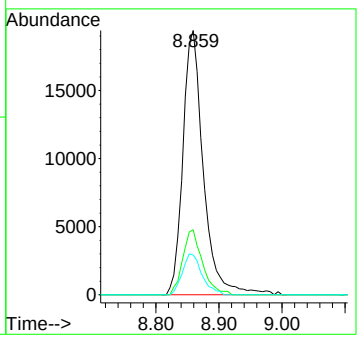


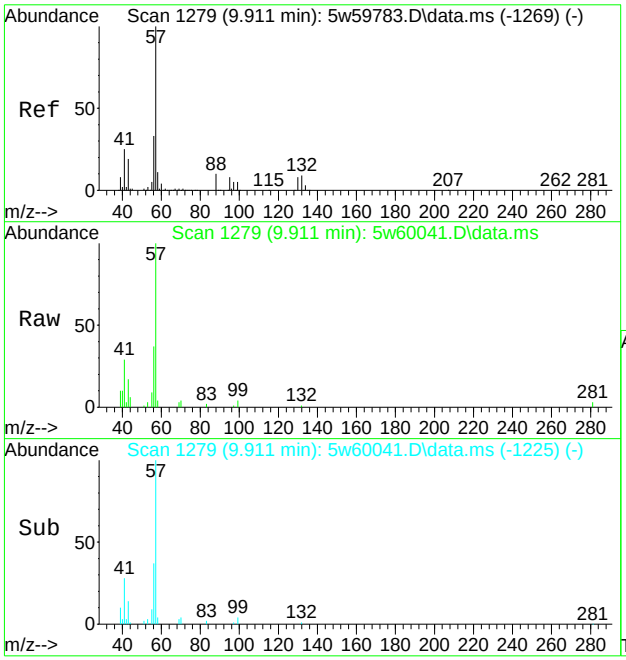


#52
BENZENE
Concen: 0.3044 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 78 Resp: 43878

Ion	Ratio	Lower	Upper
78	100		
77	23.5	0.0	53.8
52	14.8	0.0	46.9

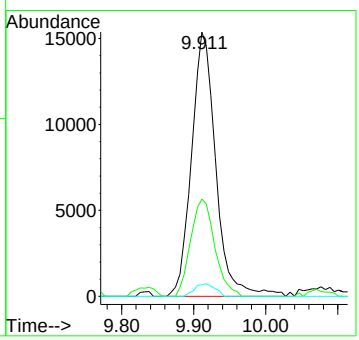


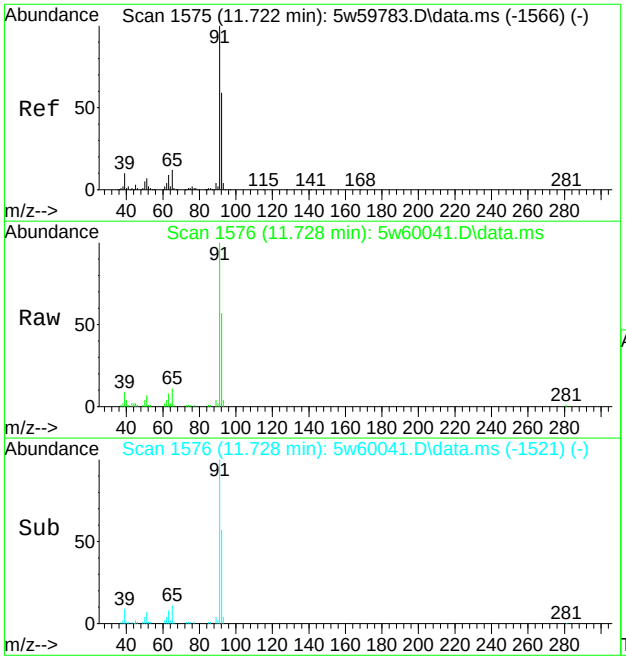


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.1573 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 57 Resp: 35896

Ion	Ratio	Lower	Upper
57	100		
56	36.6	2.5	62.5
99	4.0	0.0	37.3

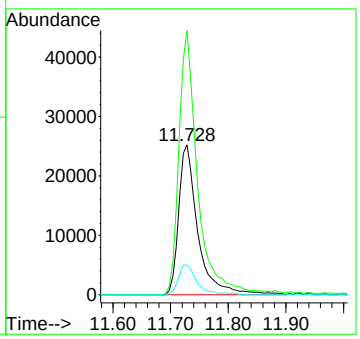


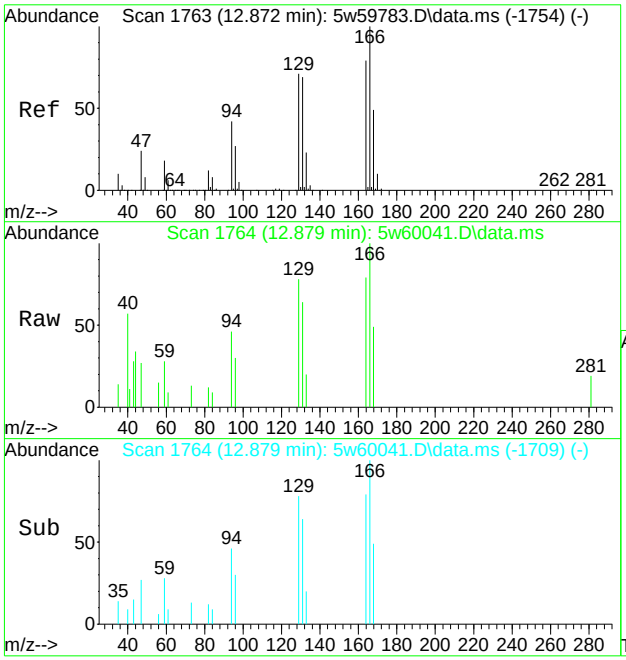


#66
TOLUENE
Concen: 0.5427 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 92 Resp: 58477

Ion	Ratio	Lower	Upper
92	100		
91	176.6	140.1	200.1
65	19.6	0.0	53.1

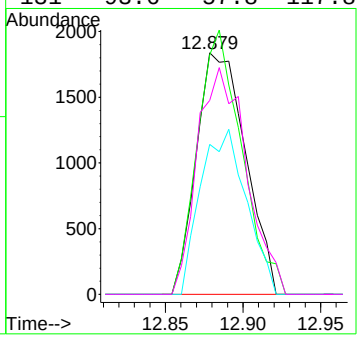


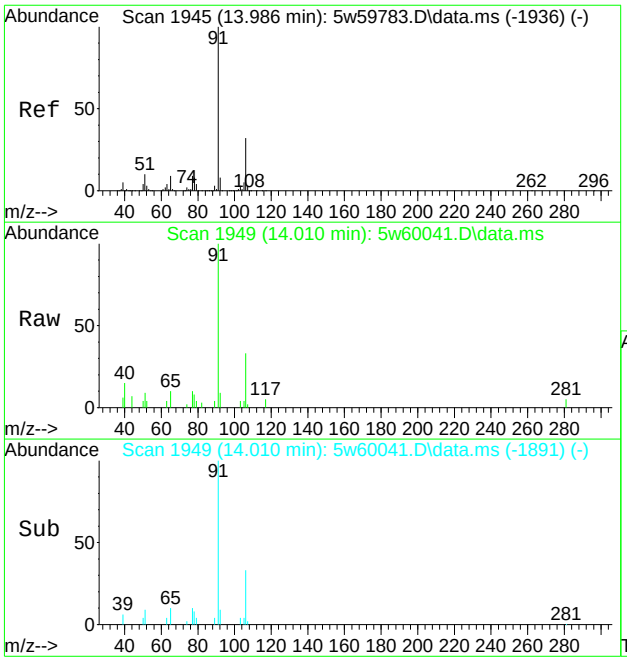


#73
TETRACHLOROETHYLENE
Concen: 0.0555 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.007 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion:164 Resp: 4049

Ion	Ratio	Lower	Upper
164	100		
129	98.1	59.7	119.7
168	63.6	32.2	92.2
131	93.6	57.8	117.8

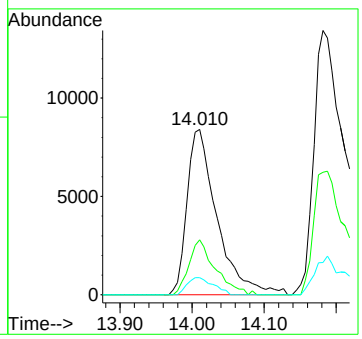


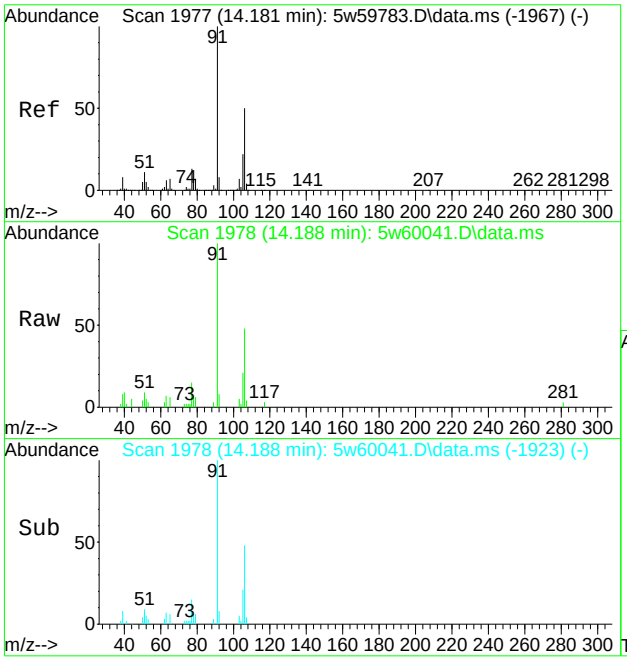


#79
ETHYLBENZENE
Concen: 0.1186 PPBV
RT: 14.010 min Scan# 1949
Delta R.T. 0.024 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion: 91 Resp: 24325

Ion	Ratio	Lower	Upper
91	100		
106	29.2	1.3	61.3
77	9.0	0.0	38.6

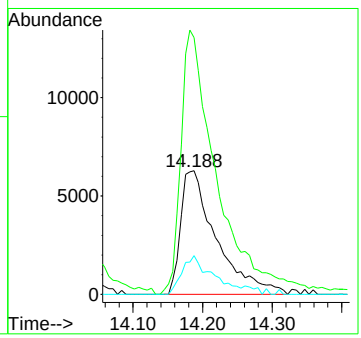


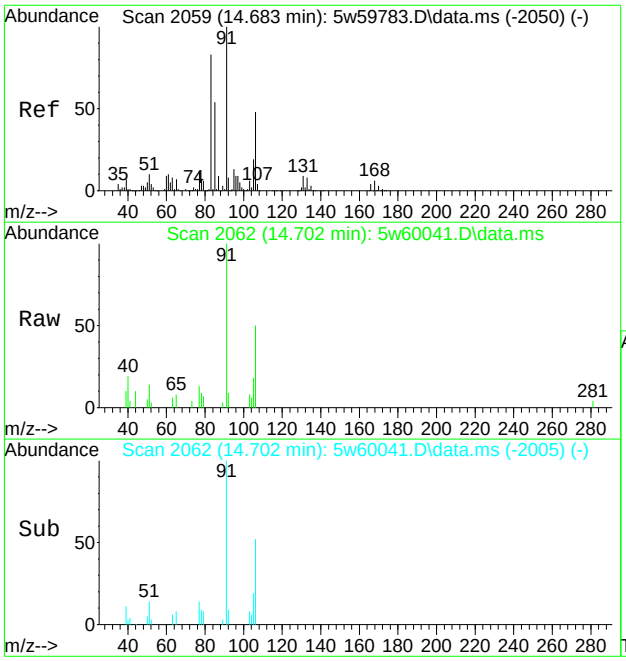


#80
m,p-XYLENE
Concen: 0.2776 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion:106 Resp: 22444

Ion	Ratio	Lower	Upper
106	100		
91	207.6	171.0	231.0
77	31.4	0.0	56.7

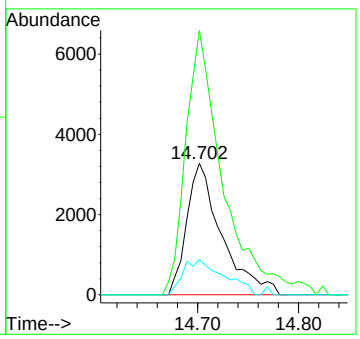




#81
o-XYLENE
Concen: 0.1042 PPBV
RT: 14.702 min Scan# 2062
Delta R.T. 0.019 min
Lab File: 5w60041.D
Acq: 25 Nov 2025 5:18 pm

Tgt Ion:106 Resp: 7886

Ion	Ratio	Lower	Upper
106	100		
91	216.6	181.6	241.6
77	31.2	0.0	56.6



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

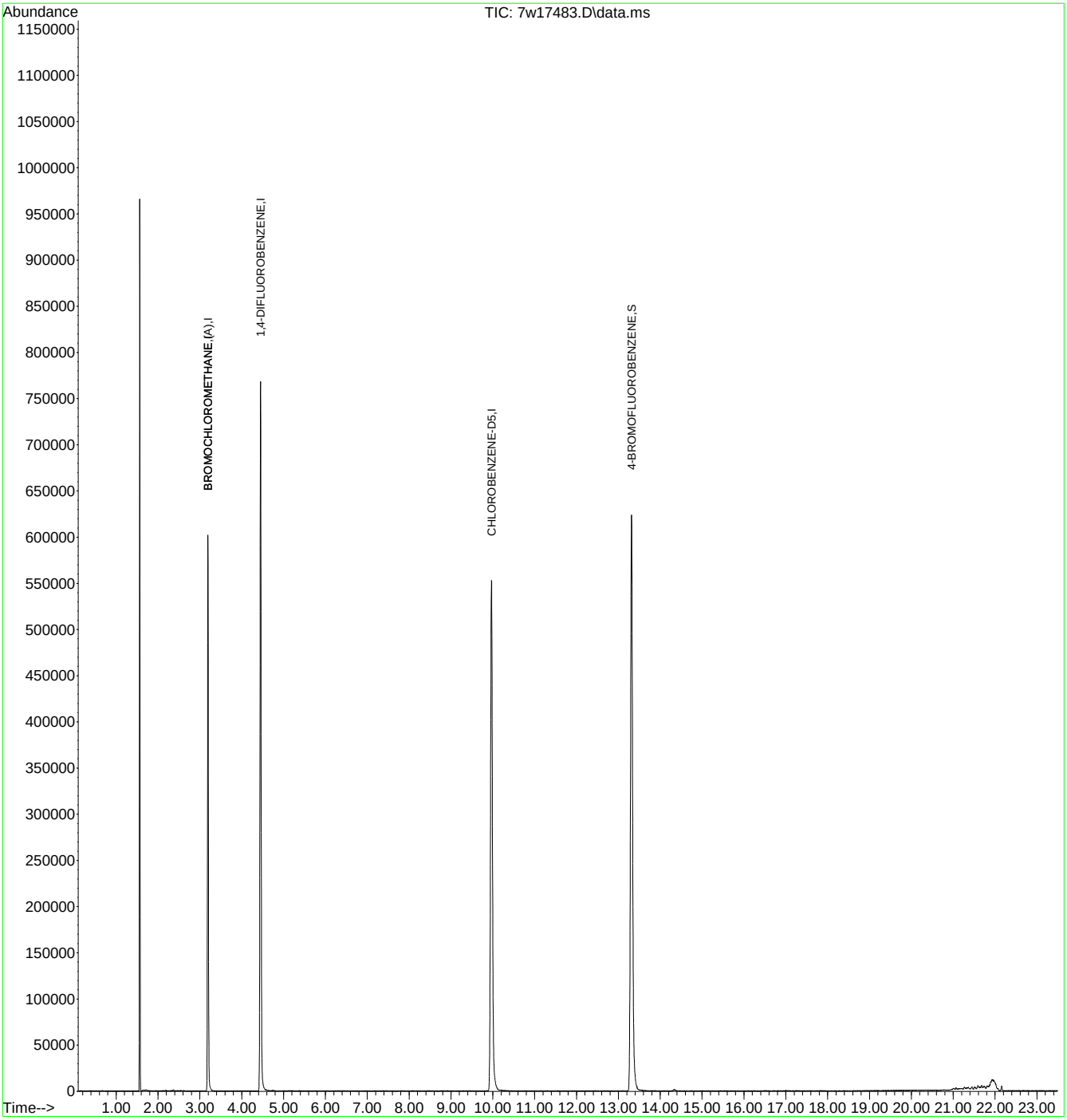
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	122841	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	609530	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	568575	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	122841	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	430277	9.40	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

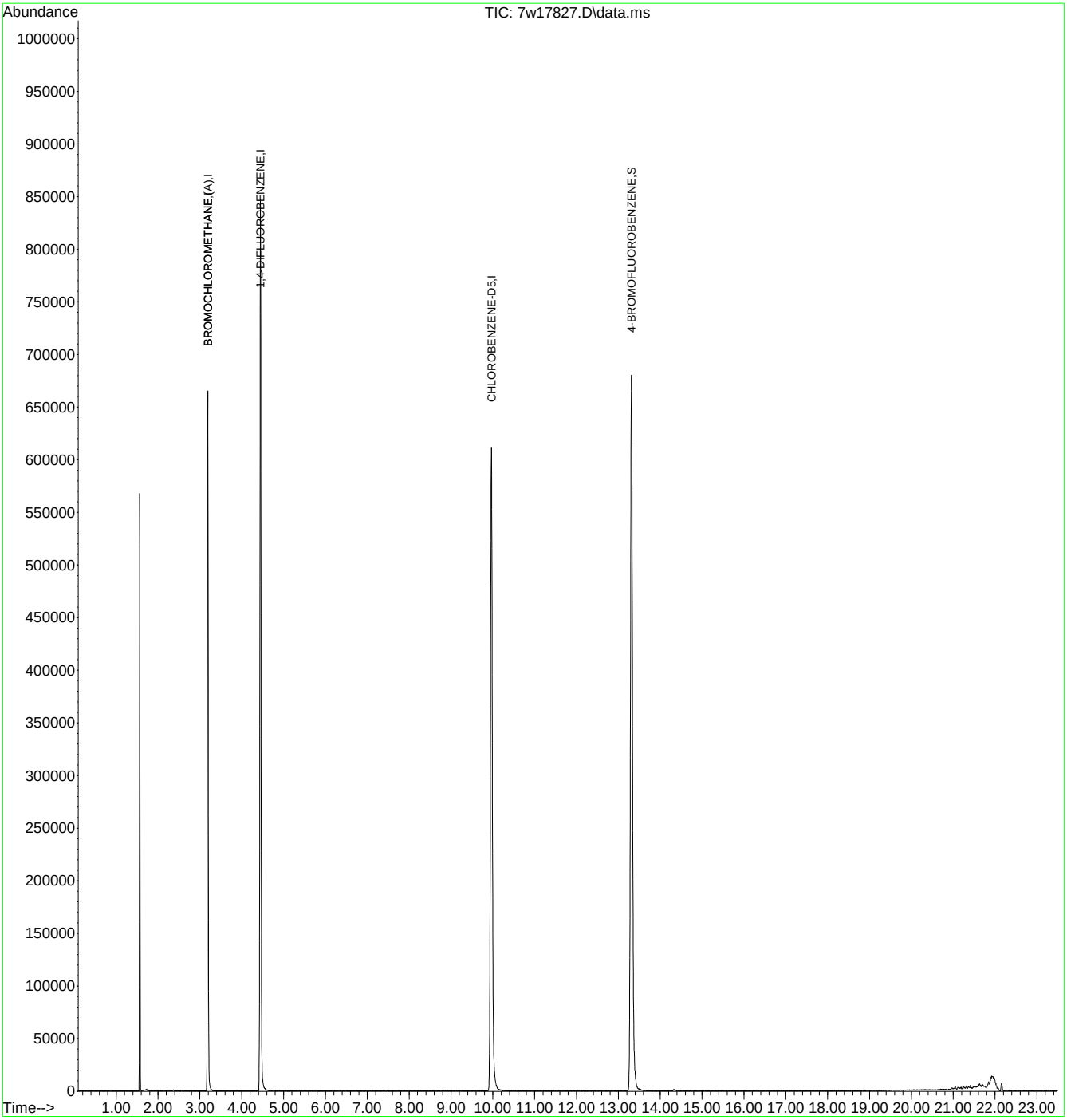
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	133491	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659279	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	611978	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133491	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	469303	9.52	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

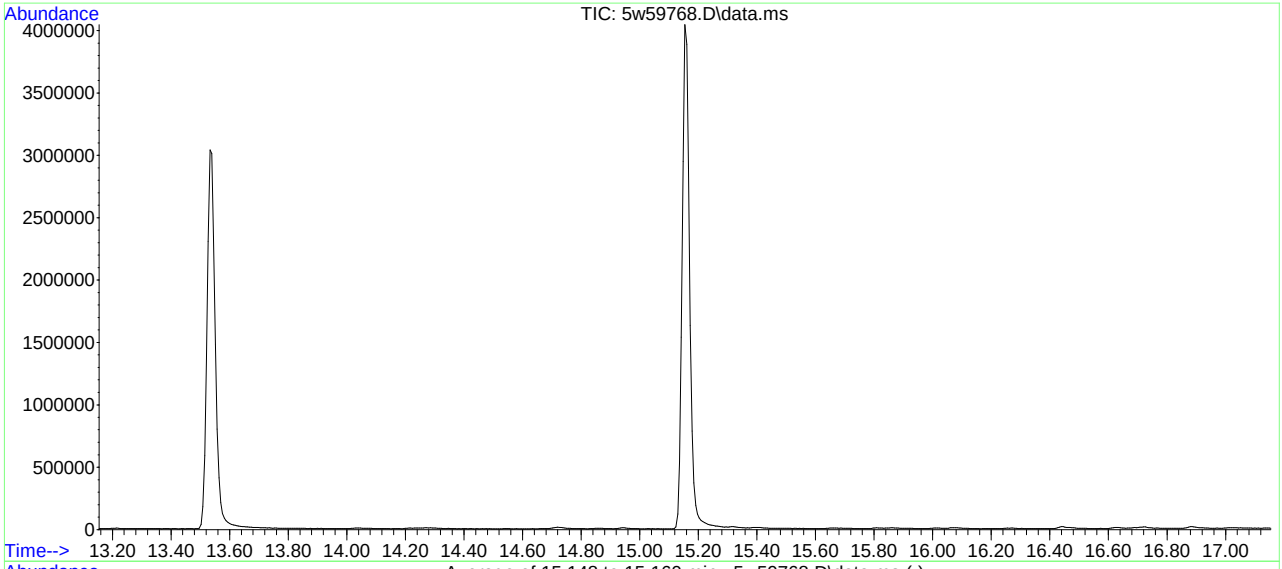
Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



BFB

Data File : C:\msdchem\1\data\5w\5w59768.D Vial: 2
Acq On : 6 Nov 2025 9:59 pm Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5wBFB.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	135749	PASS
75	95	30	66	46.4	334528	PASS
95	95	100	100	100.0	720341	PASS
96	95	5	9	6.9	49469	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.0	662677	PASS
175	174	4	9	7.8	51795	PASS
176	174	93	101	99.2	657579	PASS
177	176	5	9	6.9	45267	PASS

5w59768.D M5wBFB.M Fri Nov 07 21:29:07 2025

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	5545	48.00	3946	61.05	32339	74.05	112597
37.10	30280	49.05	27840	62.10	32435	75.05	334528
38.10	26987	50.10	135749	63.10	24125	76.10	29141
39.10	10667	51.05	41606	64.05	2305	77.00	4066
40.00	348	52.05	1737	67.05	1826	78.00	3098
41.05	175	55.05	2016	68.00	72219	78.90	24720
43.00	450	56.05	10826	69.00	70581	80.00	6986
44.00	3502	57.05	20024	70.00	5326	80.90	25387
45.10	6092	58.05	889	71.10	296	81.95	5504
46.05	426	59.10	145	72.05	3398	82.95	490
47.10	8871	60.00	6445	73.00	28839	86.05	874

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	35085	104.90	1175	118.90	3821	133.90	92
88.00	33645	105.95	3347	121.90	77	134.95	1334
90.95	2907	106.95	762	123.00	102	135.95	160
92.00	19285	109.95	420	123.90	511	136.90	1385
93.00	29085	110.95	751	124.95	264	138.95	431
94.00	80680	111.95	485	125.90	315	139.90	588
95.05	720341	112.90	723	126.95	311	141.00	7227
96.05	49469	114.95	770	127.95	2733	141.90	954
97.05	1483	115.90	2767	128.95	1406	143.00	7195
102.90	330	116.95	4700	129.90	2746	143.95	411
103.95	3663	117.90	2744	130.90	1002	144.95	616

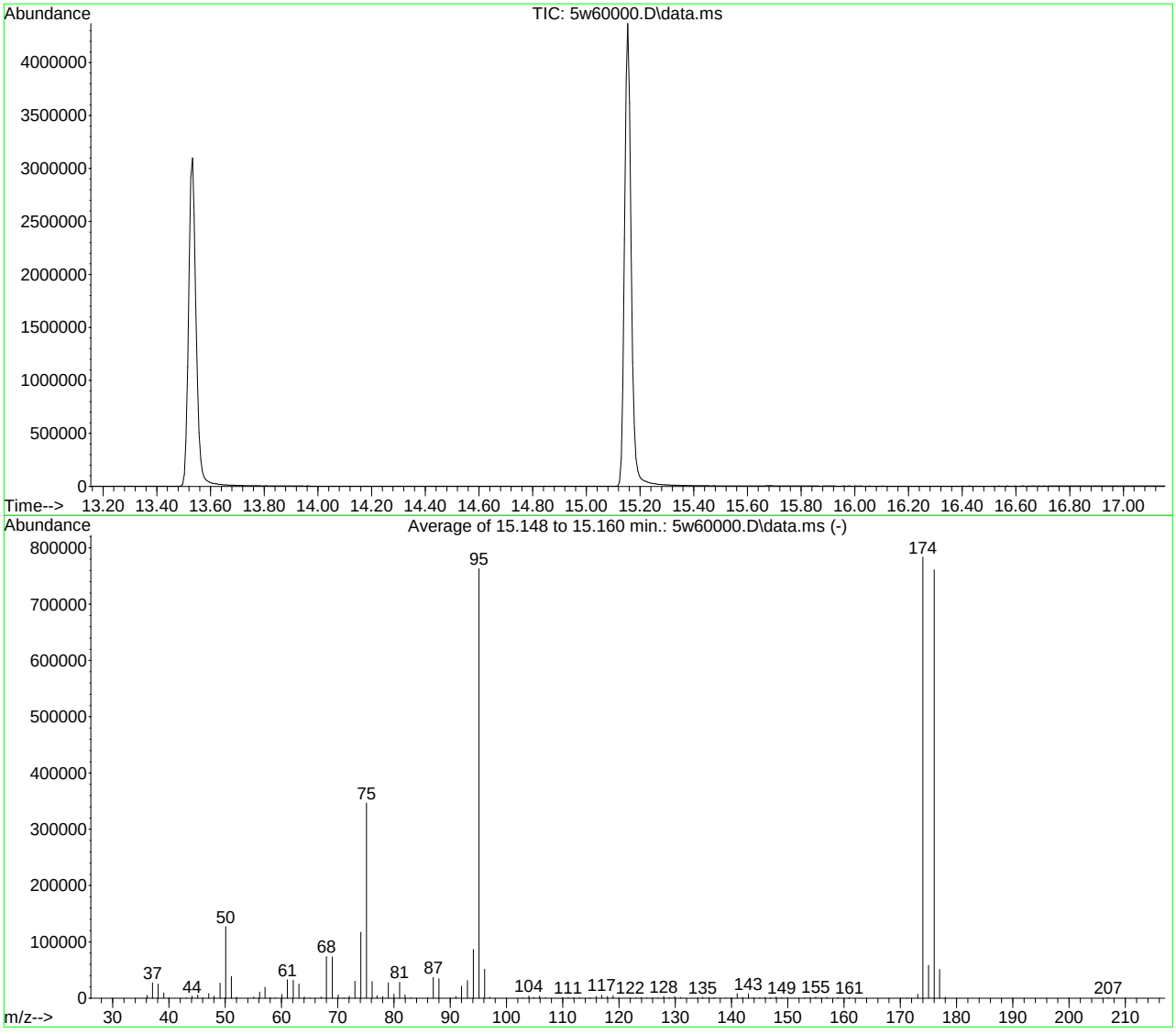
Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.90	1065	158.00	77	177.95	1268		
146.95	543	158.90	800	207.00	73		
147.95	1676	160.95	830	262.10	64		
148.95	564	168.05	273	267.00	88		
149.90	853	169.15	140	296.00	119		
151.90	371	170.10	70				
152.95	529	170.95	154				
153.95	452	174.00	662677				
154.95	1955	175.00	51795				
155.90	102	176.00	657579				
156.95	1271	177.00	45267				

BFB

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60000.D Vial: 1
Acq On : 24 Nov 2025 9:12 am Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	126995	PASS
75	95	30	66	45.5	346987	PASS
95	95	100	100	100.0	763029	PASS
96	95	5	9	6.7	51400	PASS
173	174	0.00	2	0.9	6908	PASS
174	95	50	120	102.7	783595	PASS
175	174	4	9	7.4	58229	PASS
176	174	93	101	97.1	761195	PASS
177	176	5	9	6.7	50824	PASS

5w60000.D M5w2292.M Tue Nov 25 23:08:37 2025

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	4650	49.10	26525	62.10	31869	74.10	117019
37.10	27331	50.10	126995	63.10	24912	75.10	346987
38.10	24979	51.10	38837	64.05	2223	76.10	29517
39.10	9324	52.05	1658	65.00	241	77.00	4337
40.00	204	55.05	1920	67.05	1906	78.00	3156
43.05	281	56.10	10853	68.00	73867	79.00	27331
44.10	3527	57.10	19475	69.05	73197	80.00	7302
45.10	5492	58.05	758	70.10	5545	81.00	28117
46.05	417	58.90	105	71.10	91	81.95	5771
47.10	8187	60.10	6537	72.05	3589	83.00	606
48.05	3627	61.05	32525	73.05	29765	86.00	841

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	36965	104.90	1240	118.95	4253	130.95	1208
88.00	34704	105.90	3734	120.00	67	133.90	164
91.00	3137	106.95	790	122.00	69	134.90	1543
92.00	21184	109.90	548	122.95	268	136.00	273
93.05	31387	110.95	694	123.90	547	136.90	1399
94.10	86395	111.90	555	124.95	239	138.95	311
95.10	763029	112.95	714	125.95	349	139.95	560
96.10	51400	114.90	873	126.90	319	141.00	7918
97.05	1522	115.95	3019	127.95	3130	141.95	985
102.95	392	116.95	5208	128.95	1381	143.00	8168
103.95	3865	117.95	3230	129.90	3066	143.90	507

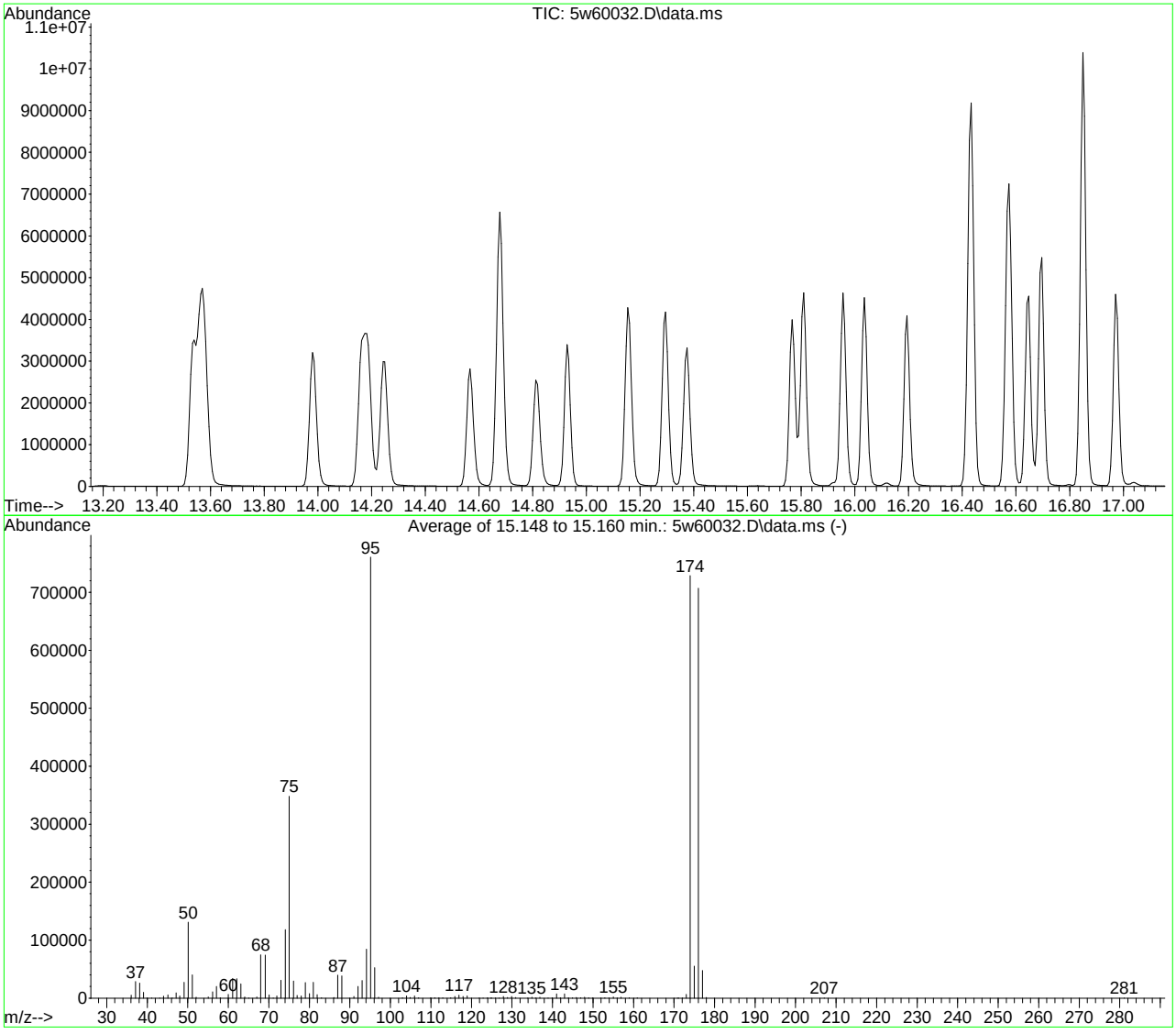
Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.00	756	156.95	1491				
145.90	1168	158.90	960				
146.95	496	160.95	1022				
147.95	2087	171.20	121				
148.95	494	173.10	6908				
149.95	844	174.00	783595				
151.95	343	175.00	58229				
153.00	621	176.00	761195				
153.95	558	177.00	50824				
154.95	2182	178.00	1438				
155.95	294	207.00	83				

BFB

Data File : X:\Dayton VOA GCMS\C...025\V5W2302\5w60032.D Vial: 4
Acq On : 25 Nov 2025 10:05 am Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	130963	PASS
75	95	30	66	45.8	348164	PASS
95	95	100	100	100.0	760597	PASS
96	95	5	9	6.9	52472	PASS
173	174	0.00	2	0.9	6427	PASS
174	95	50	120	95.8	728939	PASS
175	174	4	9	7.6	55245	PASS
176	174	93	101	97.0	707051	PASS
177	176	5	9	6.8	47832	PASS

5w60032.D M5w2292.M Thu Nov 27 00:37:19 2025

Average of 15.148 to 15.160 min.: 5w60032.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	5187	48.00	3888	62.10	33403	74.10	118219
37.10	28643	49.10	27469	63.10	24717	75.05	348164
38.10	25776	50.10	130963	64.05	2159	76.10	29680
39.05	10117	51.10	40197	65.05	354	77.00	4673
40.00	384	52.10	1776	67.05	1959	78.00	3696
41.10	139	55.05	2041	68.00	74584	79.00	26968
43.05	203	56.10	10779	69.10	74392	80.00	7600
44.05	3578	57.10	20136	70.05	5682	81.00	27432
45.10	5654	58.05	859	71.10	244	81.95	6133
46.15	435	60.00	6646	72.00	3759	83.00	910
47.10	9067	61.05	34045	73.00	30840	86.05	948

Average of 15.148 to 15.160 min.: 5w60032.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	39568	104.90	1285	118.95	3953	130.95	1143
88.00	38456	105.95	3745	121.90	68	133.90	137
91.00	2917	106.95	813	122.90	245	134.95	1366
92.00	20312	109.95	528	123.95	595	135.90	173
93.00	30419	110.95	728	124.80	113	136.90	1387
94.10	84405	111.95	645	125.00	112	138.95	327
95.10	760597	112.90	703	125.95	352	139.95	496
96.10	52472	114.90	848	126.90	258	141.00	7492
97.05	1495	115.90	2910	127.90	2878	141.95	889
103.00	573	116.95	4996	128.90	1322	143.00	7543
104.00	3821	117.95	2959	129.95	2786	143.95	498

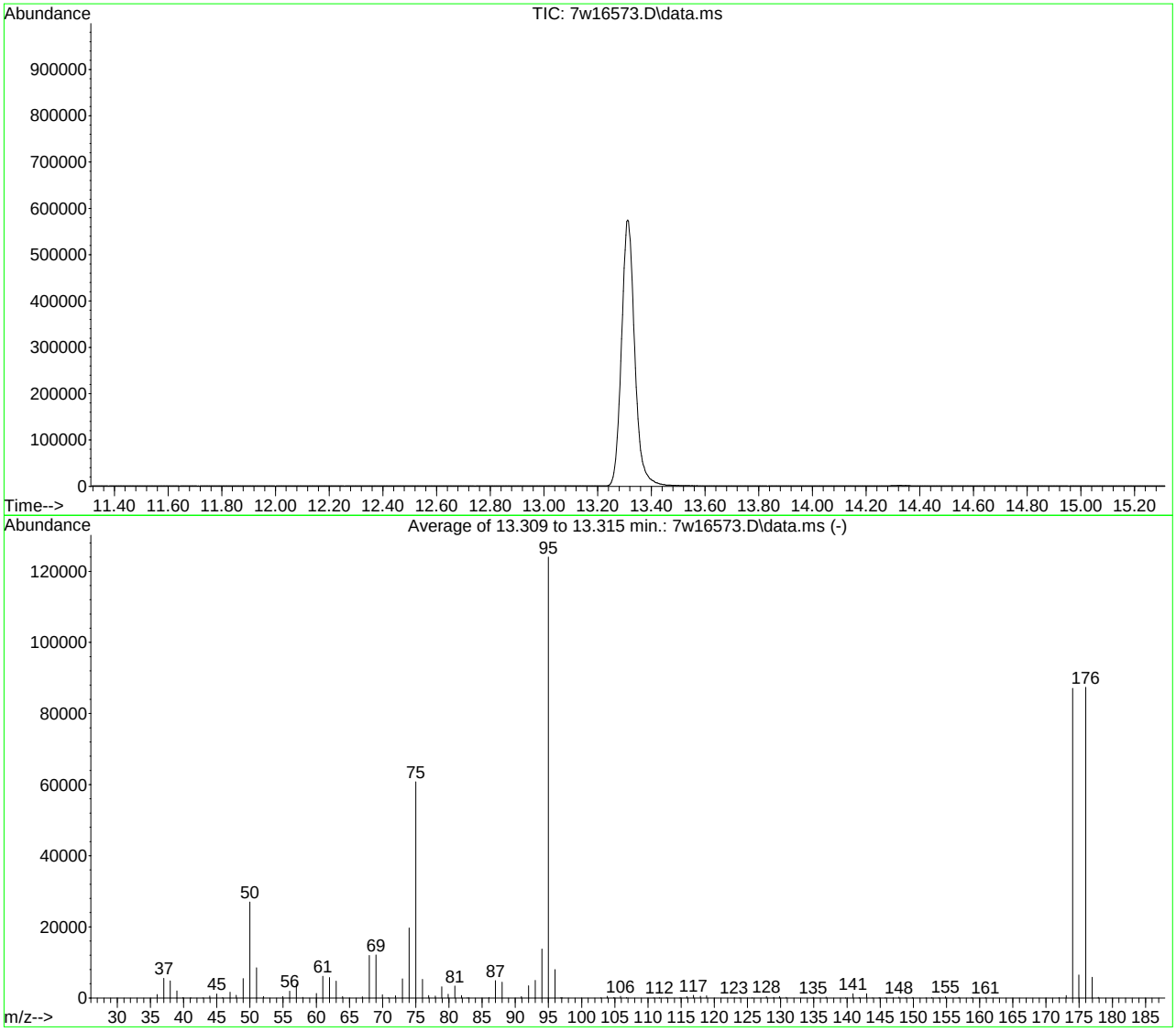
Average of 15.148 to 15.160 min.: 5w60032.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.95	635	156.95	1393	178.00	1247		
145.90	1164	158.95	819	207.05	233		
146.95	494	160.90	869	281.10	67		
147.95	1742	170.90	88				
148.95	528	171.10	144				
149.95	925	172.10	366				
151.95	348	173.05	6427				
152.95	579	174.00	728939				
153.95	461	175.00	55245				
155.00	2002	176.00	707051				
155.95	256	177.00	47832				

BFB

Data File : C:\msdchem\1\data\GCMS7W\7w16573.D Vial: 1
Acq On : 7 Aug 2025 2:05 am Operator: benk
Sample : bfb Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7wbfb.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.8	26979	PASS
75	95	30	66	49.0	60811	PASS
95	95	100	100	100.0	123992	PASS
96	95	5	9	6.4	7953	PASS
173	174	0.00	2	0.8	724	PASS
174	95	50	120	70.2	87088	PASS
175	174	4	9	7.5	6502	PASS
176	174	93	101	100.3	87355	PASS
177	176	5	9	6.7	5835	PASS

7w16573.D M7wbfb.M Thu Aug 07 19:41:55 2025

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1003	47.95	740	62.00	5766	75.00	60811
37.00	5547	49.00	5430	63.00	4750	76.00	5229
38.00	4772	50.00	26979	63.95	424	76.95	708
39.00	2026	51.00	8474	66.95	299	77.95	540
39.90	124	52.05	389	68.00	11924	78.90	3135
41.10	25	54.95	396	69.00	12070	79.90	1017
42.90	41	56.00	1901	69.95	941	80.90	3372
43.95	582	57.00	3847	70.85	48	81.90	685
45.00	1100	57.95	166	71.95	619	82.80	43
45.90	98	60.00	1293	73.00	5387	83.00	36
47.00	1625	61.00	6112	74.00	19688	86.05	112

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	4905	103.85	440	118.85	584	140.90	1229
88.00	4464	104.85	140	123.00	27	141.85	127
90.90	435	105.85	490	123.85	46	142.95	1190
92.00	3416	106.75	134	125.70	18	143.85	47
93.00	4959	110.85	68	127.85	413	144.85	107
94.00	13797	111.75	95	128.95	195	145.80	112
95.00	123992	112.80	80	129.85	393	146.95	49
96.00	7953	114.85	127	130.85	195	147.85	242
96.90	94	115.85	424	134.90	189	148.85	86
97.05	108	116.85	766	136.85	220	149.85	102
102.90	18	117.90	451	139.80	24	151.90	32

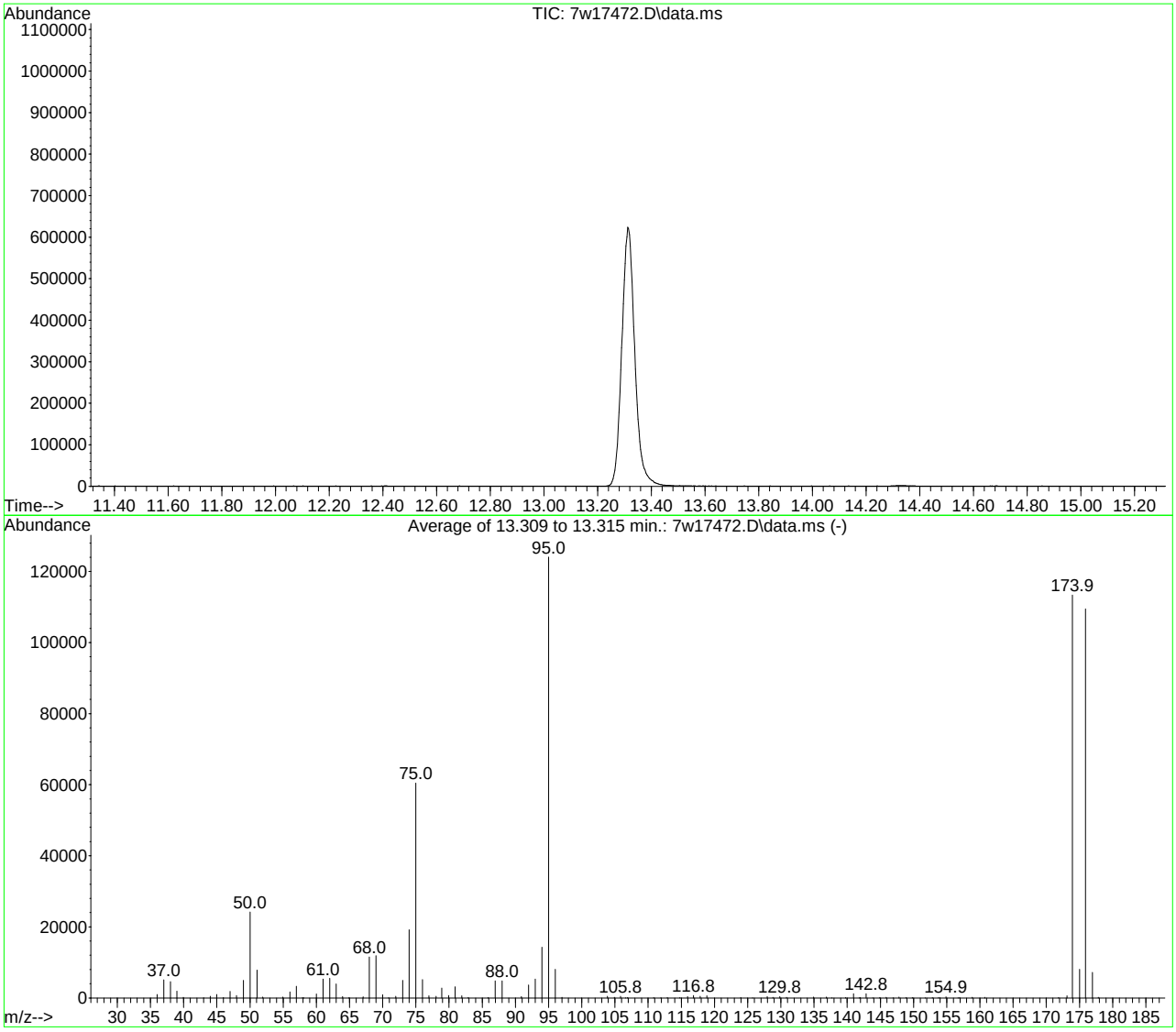
Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.80	91	176.95	5835				
153.85	70	177.90	218				
154.85	324						
156.85	216						
158.80	101						
160.90	114						
171.95	93						
173.05	724						
174.00	87088						
174.95	6502						
176.00	87355						

BFB

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17472.D Vial: 1
Acq On : 26 Sep 2025 10:25 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	24211	PASS
75	95	30	66	48.8	60491	PASS
95	95	100	100	100.0	124040	PASS
96	95	5	9	6.5	8048	PASS
173	174	0.00	2	0.6	644	PASS
174	95	50	120	91.4	113392	PASS
175	174	4	9	7.1	8039	PASS
176	174	93	101	96.6	109491	PASS
177	176	5	9	6.6	7193	PASS

7w17472.D M7W577.M Mon Sep 29 17:06:33 2025

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	994	49.00	4950	62.00	5501	74.00	19179
37.00	5126	50.00	24211	63.00	3974	75.00	60491
38.00	4613	51.05	7854	63.95	379	76.00	5147
39.00	1932	51.90	257	64.90	32	76.95	609
39.95	151	54.95	267	67.05	309	78.05	463
43.00	44	56.00	1686	68.00	11538	78.90	2810
44.00	503	57.00	3259	69.00	11858	79.95	727
45.00	1015	57.90	119	70.00	932	80.90	3140
46.00	92	58.10	23	70.90	21	81.90	597
47.00	1841	60.00	1139	71.95	510	82.90	78
47.95	717	61.00	5344	73.00	4973	85.85	98

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	4797	105.85	510	123.95	77	141.80	28
88.00	4809	106.60	20	125.75	39	141.95	105
90.90	382	106.90	116	127.95	391	142.85	1231
92.00	3682	110.85	88	128.80	181	143.85	52
93.00	5316	111.90	44	129.85	412	144.90	88
94.00	14286	112.90	99	130.85	210	145.85	149
95.00	124040	114.80	128	134.90	238	146.90	68
96.00	8048	115.95	365	136.85	239	147.80	291
97.00	215	116.85	679	137.70	22	148.85	103
103.85	482	117.85	469	139.75	93	149.80	113
104.90	165	118.85	609	140.95	1166	151.75	39

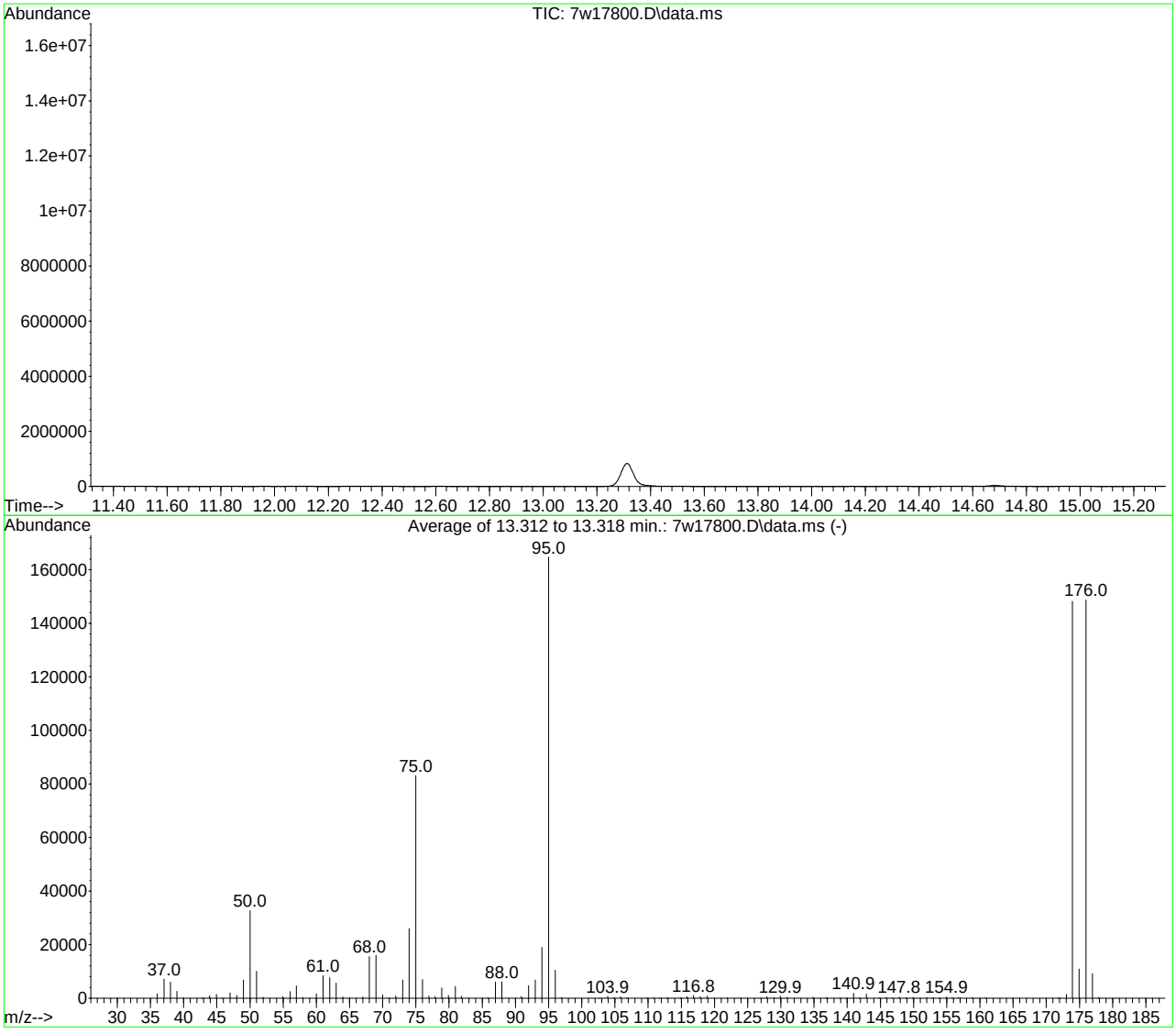
Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.85	109	175.00	8039				
153.75	100	175.90	109491				
154.00	27	176.95	7193				
154.90	329	177.85	205				
156.70	41						
156.95	84						
158.85	175						
160.75	178						
171.85	118						
173.10	644						
173.95	113392						

BFB

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17800.D Vial: 4
Acq On : 13 Oct 2025 10:41 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4113, 4114, 4115; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.8	32653	PASS
75	95	30	66	50.4	83059	PASS
95	95	100	100	100.0	164693	PASS
96	95	5	9	6.3	10435	PASS
173	174	0.00	2	0.9	1376	PASS
174	95	50	120	90.0	148181	PASS
175	174	4	9	7.4	10927	PASS
176	174	93	101	100.4	148821	PASS
177	176	5	9	6.2	9210	PASS

7w17800.D M7W577.M Mon Oct 13 21:32:02 2025

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1548	48.00	998	62.00	7648	74.00	25928
37.05	7146	49.00	6797	63.00	5647	75.00	83059
38.00	6017	50.00	32653	64.00	469	76.00	6950
39.00	2546	51.00	10056	65.05	77	76.95	868
39.95	76	52.00	373	67.00	420	77.90	624
42.80	54	54.95	497	68.00	15526	78.90	3753
43.05	93	56.05	2421	69.00	16030	79.90	1027
43.90	913	57.00	4596	70.00	1185	80.95	4363
44.95	1374	57.95	241	71.00	23	81.85	687
45.85	94	60.00	1599	71.95	837	82.95	81
47.00	1988	61.00	8422	73.00	6766	85.85	192

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	6024	104.85	174	116.85	972	136.80	132
87.95	6118	105.85	560	117.85	490	137.00	170
90.90	612	106.80	151	118.90	774	138.90	18
92.00	4652	109.80	57	121.90	30	139.95	66
93.00	6777	110.80	117	123.95	114	140.95	1778
94.00	18955	111.70	57	127.00	18	141.85	181
95.00	164693	112.00	28	127.90	524	142.90	1542
96.00	10435	112.80	81	128.95	268	144.80	153
96.95	293	113.00	43	129.90	709	145.85	237
102.70	47	114.85	180	130.90	269	146.80	75
103.90	664	115.85	548	134.85	315	147.85	387

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.90	132	158.85	205				
149.90	249	160.80	198				
152.00	18	171.80	84				
152.80	36	172.05	152				
153.00	89	173.05	1376				
153.85	77	173.95	148181				
154.95	434	174.95	10927				
155.80	23	176.00	148821				
156.00	23	176.95	9210				
156.75	173	177.85	232				
157.00	105						

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	470818	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2113713	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1047801	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	474427	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1393397	10.72	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 107.20%				
Target Compounds							Qvalue
2) FREON 115	3.378	119	1822	0.06	PPBV		95
3) FREON 152A	3.457	65	2398	0.07	PPBV		97
4) CHLORODIFLUOROMETHANE	3.482	67	522	0.04	PPBV	#	44
5) CHLOROTRIFLUOROETHENE	3.512	116	3060	0.04	PPBV		95
6) DICHLORODIFLUOROMETHANE	3.555	85	5958	0.04	PPBV		95
7) PROPYLENE	3.512	41	2388m	0.07	PPBV		
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	5550m	0.05	PPBV		
9) FREON 114	3.732	85	6084	0.05	PPBV		93
10) CHLOROMETHANE	3.671	52	845	0.06	PPBV	#	32
11) VINYL CHLORIDE	3.824	62	2035	0.05	PPBV	#	39
12) 1,3-BUTADIENE	3.928	54	1523	0.06	PPBV	#	42
13) n-BUTANE	3.953	43	2825m	0.07	PPBV		
14) BROMOMETHANE	4.112	94	2464	0.05	PPBV	#	53
15) CHLOROETHANE	4.234	64	1697m	0.08	PPBV		
16) DICHLOROFLUOROMETHANE	4.301	67	4942	0.05	PPBV	#	84
17) ACETONITRILE	4.534	41	1278	0.05	PPBV	#	61
18) ACROLEIN	4.620	56	728m	0.05	PPBV		
19) FREON 123	4.607	83	6421	0.06	PPBV		76
20) FREON 123A	4.644	117	3274	0.05	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	5153	0.05	PPBV	#	77
22) ISOPROPYL ALCOHOL	4.938	45	5219m	0.06	PPBV		
23) ACETONE	4.730	58	1951	0.11	PPBV		95
24) PENTANE	5.084	42	3370	0.08	PPBV		76
25) IODOMETHANE	5.256	142	6273	0.04	PPBV		87
26) 1,1-DICHLOROETHYLENE	5.323	96	2915	0.06	PPBV	#	58
27) CARBON DISULFIDE	5.684	76	5982	0.05	PPBV		90
28) ETHANOL	4.350	45	2592	0.17	PPBV		78
29) BROMOETHENE	4.491	106	2283	0.05	PPBV	#	64
30) ACRYLONITRILE	5.109	52	1514	0.05	PPBV	#	71
31) METHYLENE CHLORIDE	5.427	84	2871	0.06	PPBV		97
32) 3-CHLOROPROPENE	5.537	76	1170	0.05	PPBV	#	68
33) FREON 113	5.647	151	3628	0.04	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.253	96	2781m	0.05	PPBV		
35) TERTIARY BUTYL ALCOHOL	5.482	59	3750	0.04	PPBV		78
36) METHYL TERTIARY BUTYL ...	6.565	73	7842	0.06	PPBV		90
38) HEXANE	7.385	57	3894	0.05	PPBV		89
40) 1,1-DICHLOROETHANE	6.436	63	5305	0.06	PPBV		94
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3901	0.07	PPBV	#	54
43) DIISOPROPYL ETHER	7.458	59	536	0.03	PPBV	#	1
44) ETHYL ACETATE	7.207	61	3226	0.23	PPBV	#	1
45) METHYL ACRYLATE	7.397	55	878	0.01	PPBV	#	65
46) CHLOROFORM	7.489	83	4783	0.05	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	8.229	57	4175	0.05	PPBV		91
48) 1,1,1-TRICHLOROETHANE	8.413	97	4728	0.04	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	4970	0.04	PPBV		99
50) 1,2-DICHLOROETHANE	8.192	62	3147	0.04	PPBV	#	73
52) BENZENE	8.871	78	6471	0.05	PPBV		84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

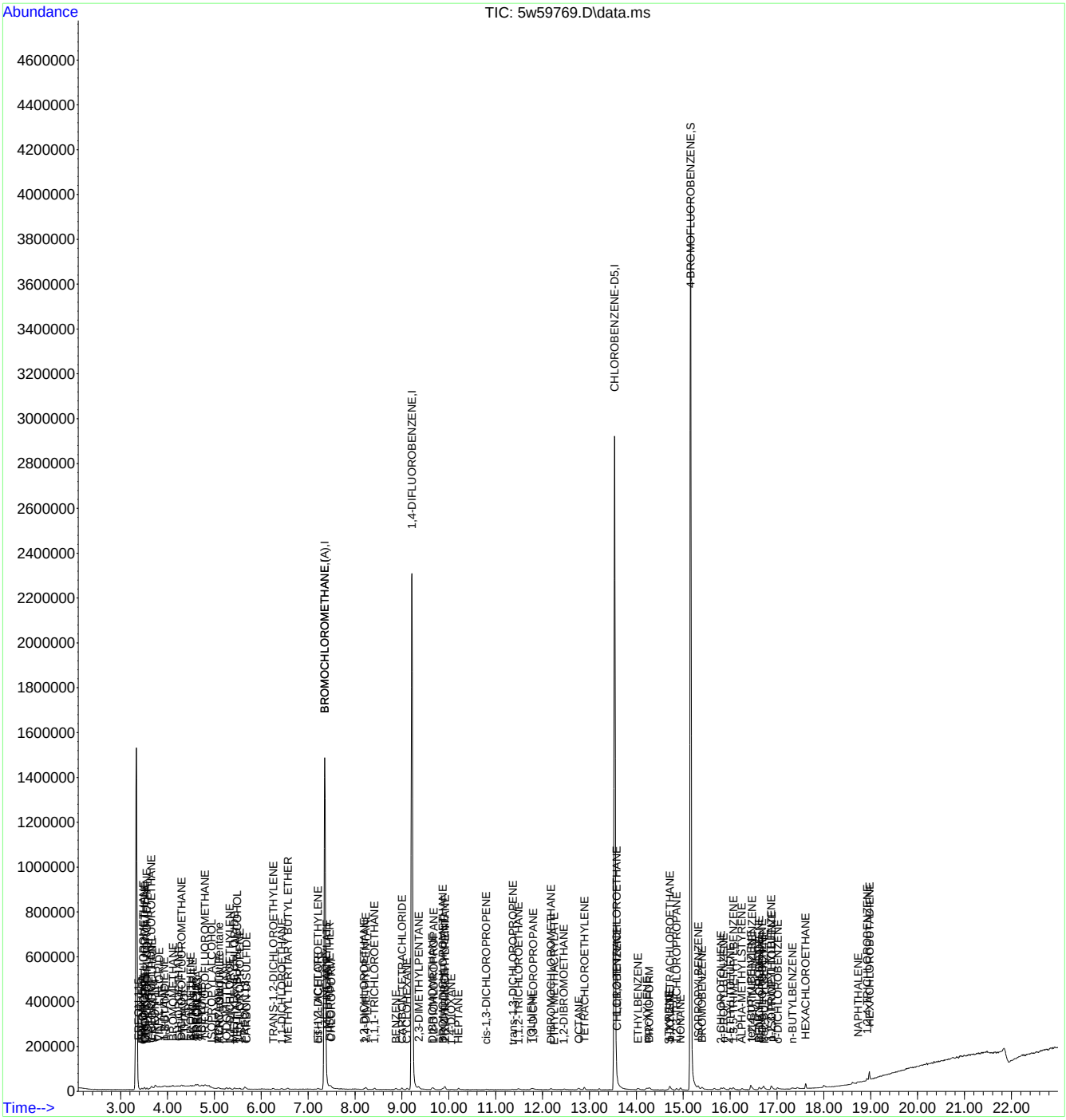
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) CYCLOHEXANE	9.104	84	2517	0.04	PPBV		86
54) 2,3-DIMETHYLPENTANE	9.361	71	1176	0.04	PPBV	#	68
55) TRICHLOROETHYLENE	9.905	95	2913	0.04	PPBV		91
56) 1,2-DICHLOROPROPANE	9.673	63	3887m	0.06	PPBV		
57) DIBROMOMETHANE	9.648	174	3768	0.05	PPBV		94
59) BROMODICHLOROMETHANE	9.869	83	4912	0.04	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	9.917	57	10699	0.05	PPBV		97
61) 1,4-DIOXANE	10.052	88	1059	0.03	PPBV	#	1
62) HEPTANE	10.205	43	4522	0.06	PPBV		88
65) cis-1,3-DICHLOROPROPENE	10.792	75	4969	0.05	PPBV		77
66) TOLUENE	11.759	92	4059	0.04	PPBV		84
67) 1,3-DICHLOROPROPANE	11.796	76	3478	0.04	PPBV	#	53
68) trans-1,3-DICHLOROPROPENE	11.361	75	4586	0.05	PPBV		80
69) 1,1,2-TRICHLOROETHANE	11.484	83	2006	0.03	PPBV		89
72) ETHYL METHACRYLATE	12.248	69	735	0.01	PPBV	#	1
73) TETRACHLOROETHYLENE	12.891	164	3089	0.04	PPBV		89
74) DIBROMOCHLOROMETHANE	12.181	129	5067	0.04	PPBV		93
75) 1,2-DIBROMOETHANE	12.450	107	3668	0.04	PPBV	#	91
76) OCTANE	12.768	43	6243m	0.07	PPBV		
77) 1,1,1,2-TETRACHLOROETHANE	13.576	131	3434	0.04	PPBV		95
78) CHLOROBENZENE	13.588	112	6320	0.05	PPBV	#	50
79) ETHYLBENZENE	14.035	91	9593	0.05	PPBV		86
80) m,p-XYLENE	14.224	106	6608	0.08	PPBV	#	91
81) o-XYLENE	14.714	106	3154	0.04	PPBV	#	64
82) STYRENE	14.695	104	3881	0.03	PPBV		84
83) NONANE	14.940	43	5771	0.06	PPBV		90
84) BROMOFORM	14.273	173	4371	0.04	PPBV	#	93
86) 1,1,2,2-TETRACHLOROETHANE	14.714	83	5918	0.05	PPBV		95
87) 1,2,3-TRICHLOROPROPANE	14.854	75	5967	0.06	PPBV		74
88) ISOPROPYLBENZENE	15.319	105	9953	0.04	PPBV		87
89) BROMOBENZENE	15.399	77	5423	0.05	PPBV		89
90) 2-CHLOROTOLUENE	15.803	126	2313	0.04	PPBV		63
91) n-PROPYLBENZENE	15.858	120	2252	0.04	PPBV	#	61
92) 4-ETHYLTOLUENE	16.005	105	7489m	0.04	PPBV		
93) 1,3,5-TRIMETHYLBENZENE	16.066	105	9751m	0.05	PPBV		
94) ALPHA-METHYLSTYRENE	16.249	118	2895	0.03	PPBV		87
95) tert-BUTYLBENZENE	16.445	134	1525	0.04	PPBV	#	63
96) 1,2,4-TRIMETHYLBENZENE	16.470	105	8180	0.05	PPBV	#	29
97) m-DICHLOROBENZENE	16.622	146	4669	0.03	PPBV		89
98) BENZYL CHLORIDE	16.622	91	4703	0.03	PPBV		83
99) p-DICHLOROBENZENE	16.684	146	6829m	0.05	PPBV		
100) sec-BUTYLBENZENE	16.714	134	2023	0.04	PPBV	#	72
101) 1,2,3-TRIMETHYLBENZENE	16.873	105	8480	0.04	PPBV		93
102) p-ISOPROPYLTOLUENE	16.886	134	2164	0.04	PPBV	#	60
103) o-DICHLOROBENZENE	17.014	146	5480	0.04	PPBV		94
104) n-BUTYLBENZENE	17.332	134	1780	0.03	PPBV	#	47
105) HEXACHLOROETHANE	17.607	117	4357	0.05	PPBV		95
106) HEXACHLOROBUTADIENE	18.972	225	5840	0.05	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.923	180	5141	0.04	PPBV		96
108) NAPHTHALENE	18.727	128	11614m	0.04	PPBV		
110) TVHC as equiv Pentane	5.097	TIC	13430m	0.05	PPBV		

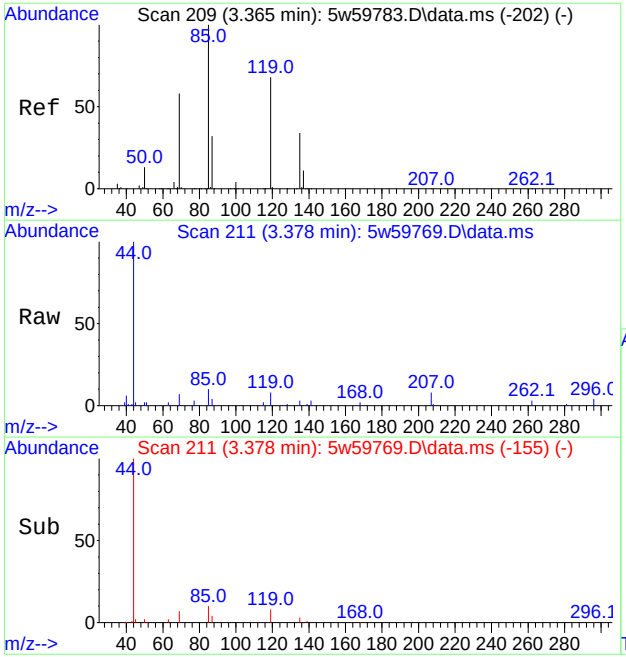
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

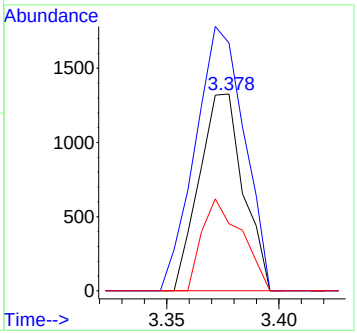


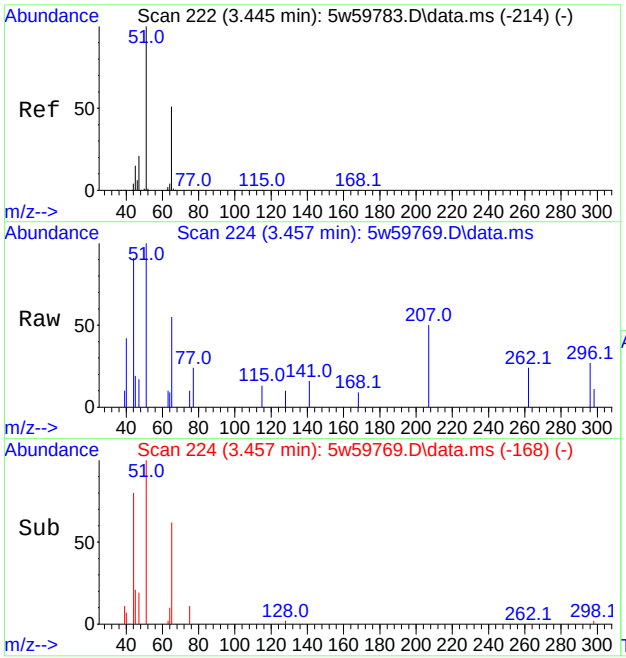


#2
FREON 115
Concen: 0.06 PPBV
RT: 3.378 min Scan# 211
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:119 Resp: 1822

Ion	Ratio	Lower	Upper
119	100		
85	149.2	116.2	176.2
135	41.9	20.6	80.6

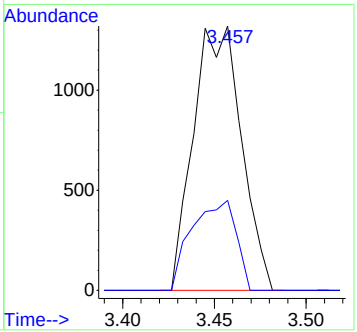


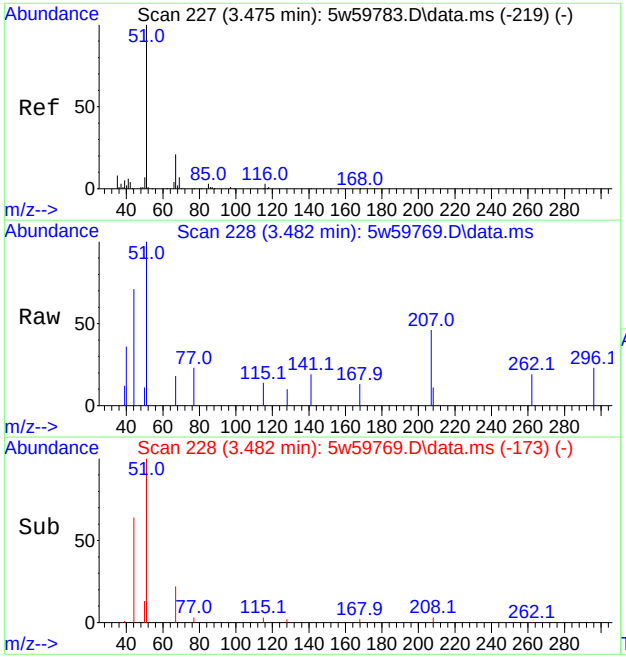


#3
FREON 152A
Concen: 0.07 PPBV
RT: 3.457 min Scan# 224
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 2398

Ion	Ratio	Lower	Upper
65	100		
45	31.4	0.0	60.0

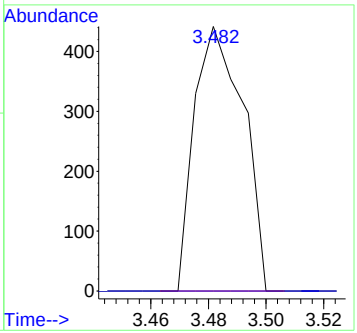


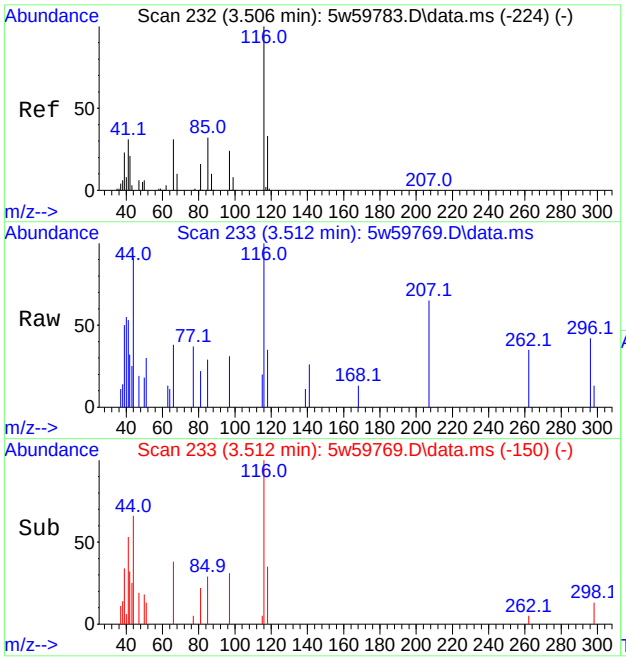


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 522

Ion	Ratio	Lower	Upper
67	100		
69	0.0	1.0	61.0#

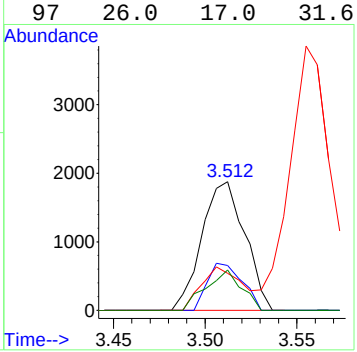


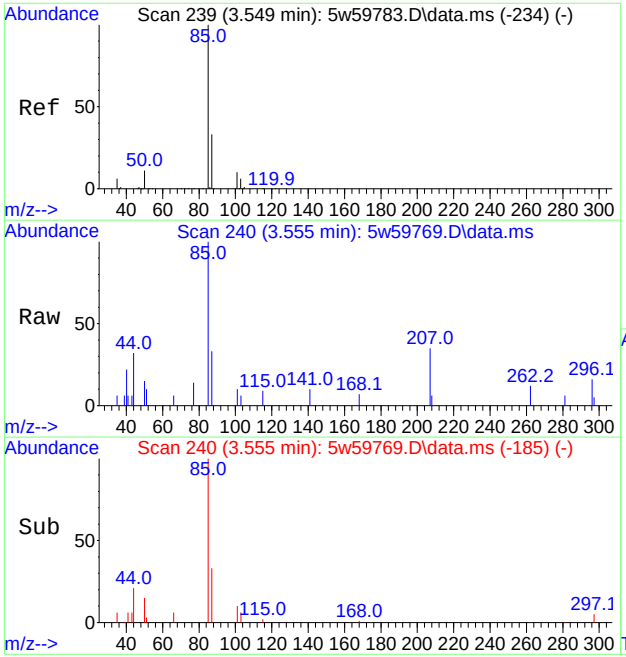


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 3.512 min Scan# 233
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:116 Resp: 3060

Ion	Ratio	Lower	Upper
116	100		
118	29.7	22.9	42.5
85	31.1	23.7	44.1
97	26.0	17.0	31.6

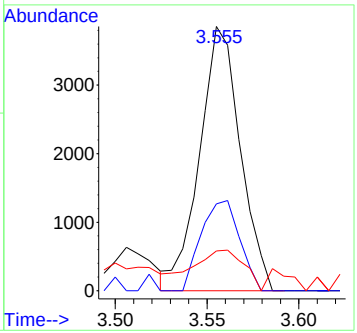


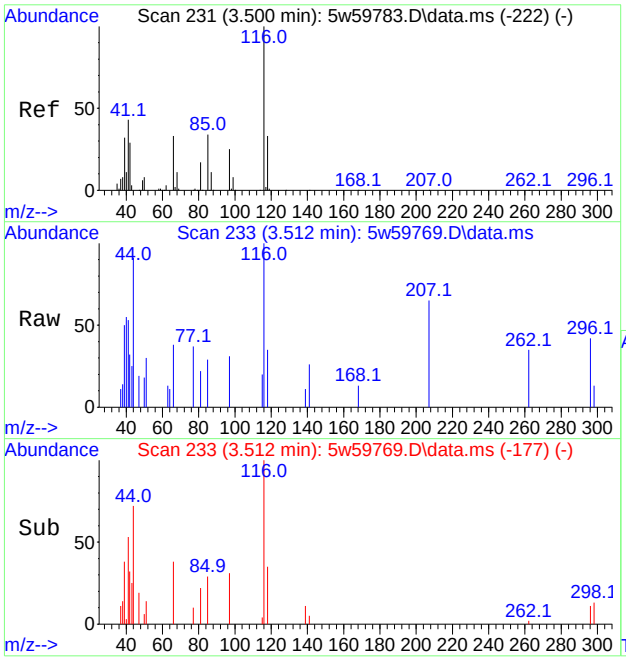


#6
DICHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 5958

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	18.7	0.0	41.7

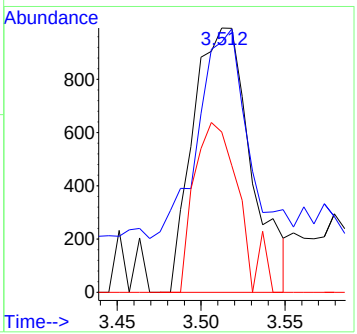


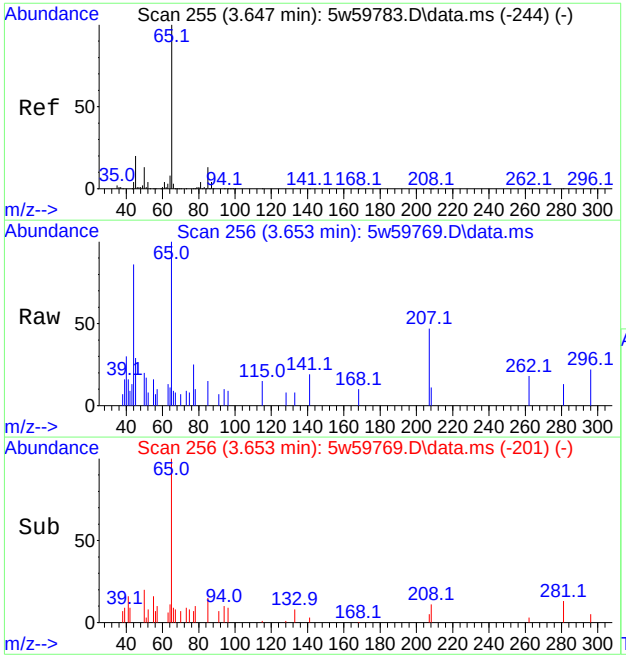


#7
PROPYLENE
Concen: 0.07 PPBV m
RT: 3.512 min Scan# 233
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 2388

Ion	Ratio	Lower	Upper
41	100		
39	236.5	45.1	105.1#
42	49.5	36.3	96.3

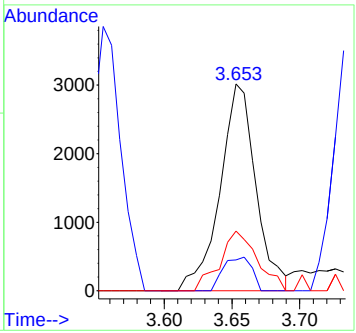


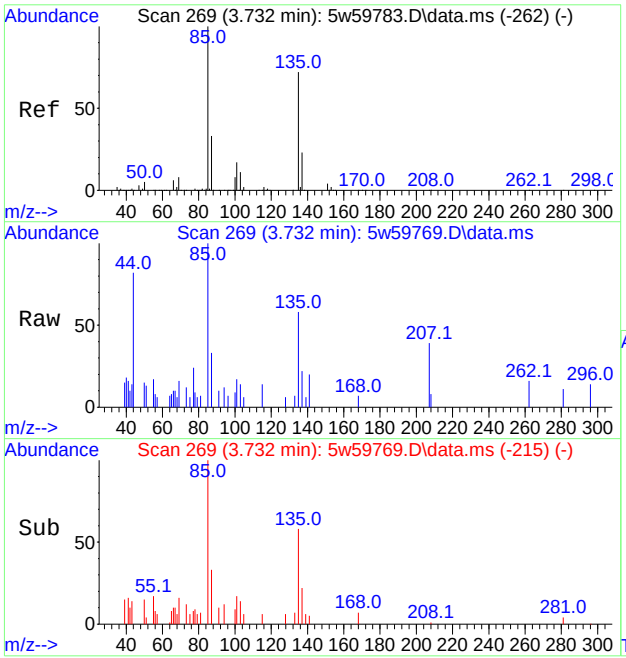


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.05 PPBV m
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 5550

Ion	Ratio	Lower	Upper
65	100		
85	12.9	11.5	21.3
45	30.0	14.0	26.0#

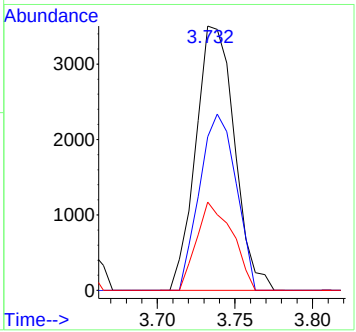


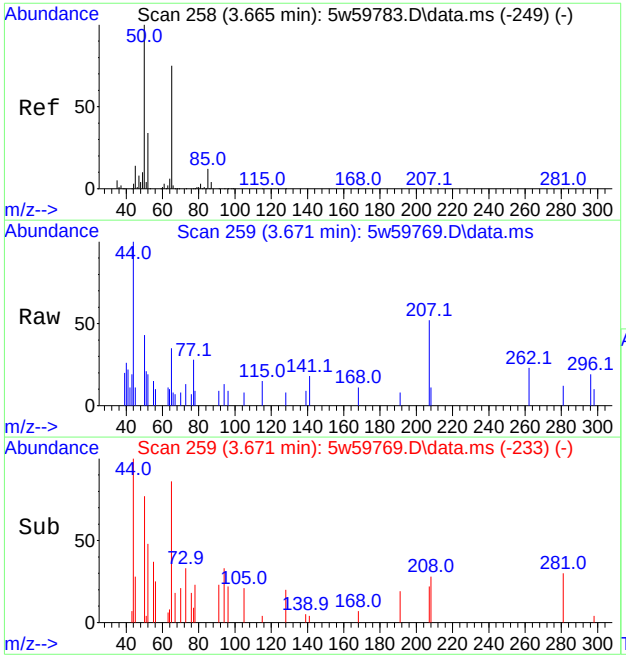


#9
FREON 114
Concen: 0.05 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 6084

Ion	Ratio	Lower	Upper
85	100		
135	63.0	40.5	100.5
87	30.9	3.0	63.0

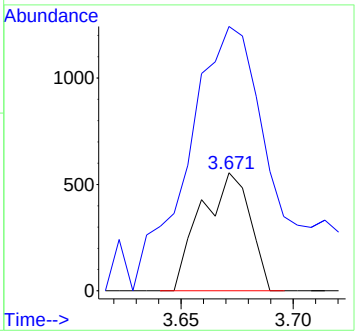


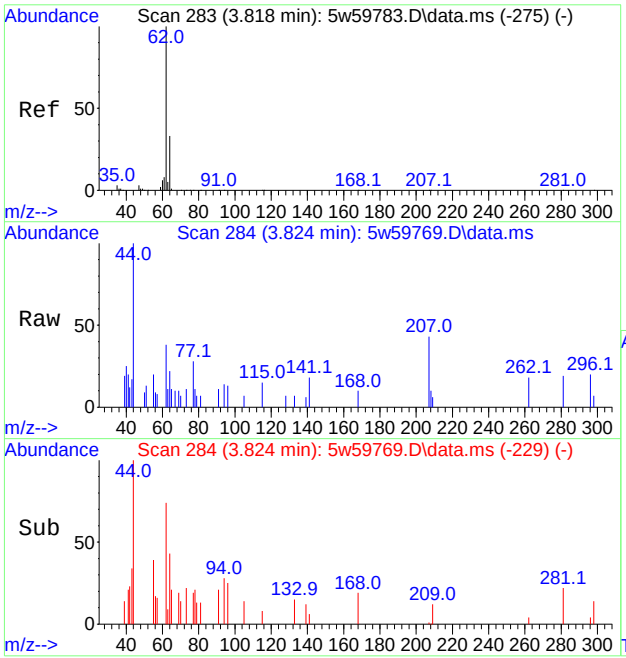


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 3.671 min Scan# 259
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 845

Ion	Ratio	Lower	Upper
52	100		
50	165.1	267.9	327.9#

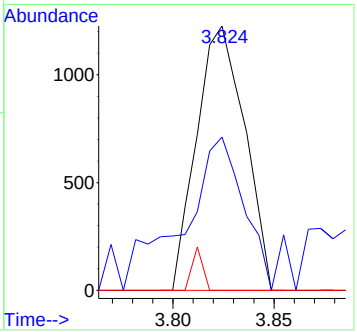


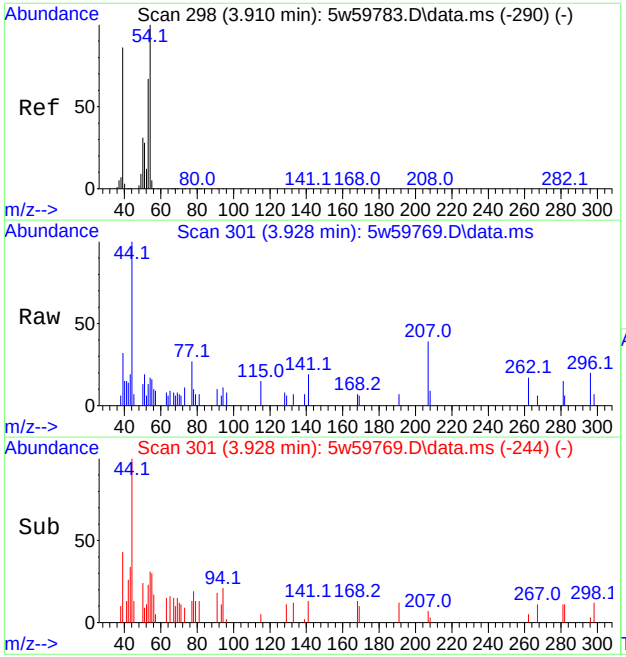


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 3.824 min Scan# 284
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 2035

Ion	Ratio	Lower	Upper
62	100		
64	73.5	3.6	63.6#
61	0.0	0.0	38.2

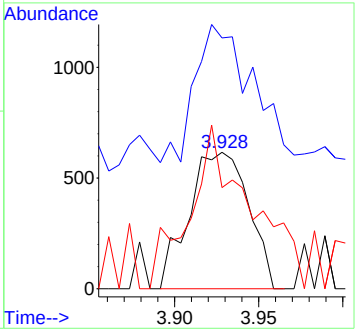


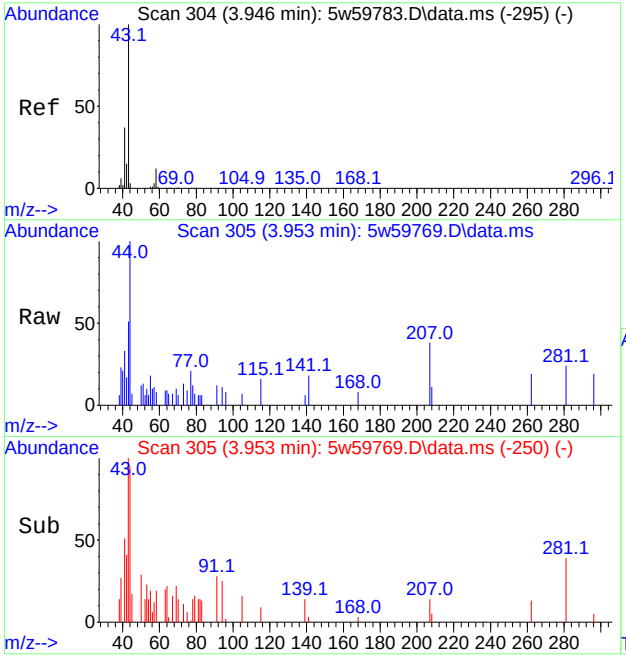


#12
1,3-BUTADIENE
Concen: 0.06 PPBV
RT: 3.928 min Scan# 301
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 54 Resp: 1523

Ion	Ratio	Lower	Upper
54	100		
39	168.7	82.0	142.0#
53	123.3	40.2	100.2#

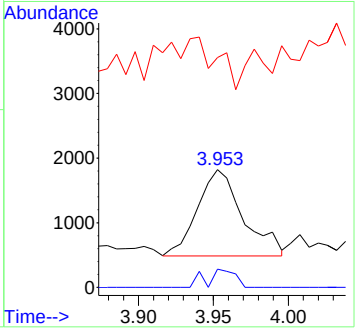


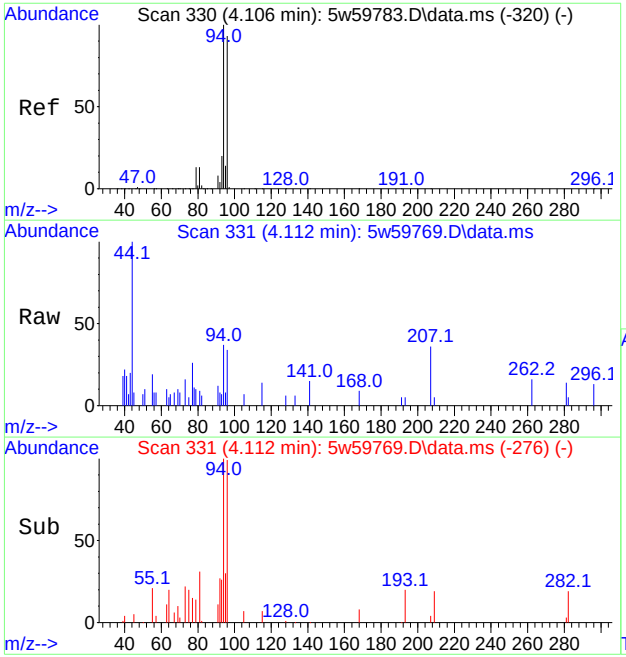


#13
n-BUTANE
Concen: 0.07 PPBV m
RT: 3.953 min Scan# 305
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 2825

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	0.0	0.0	34.9

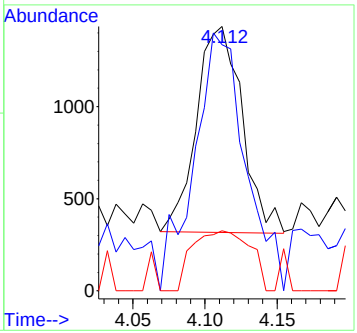


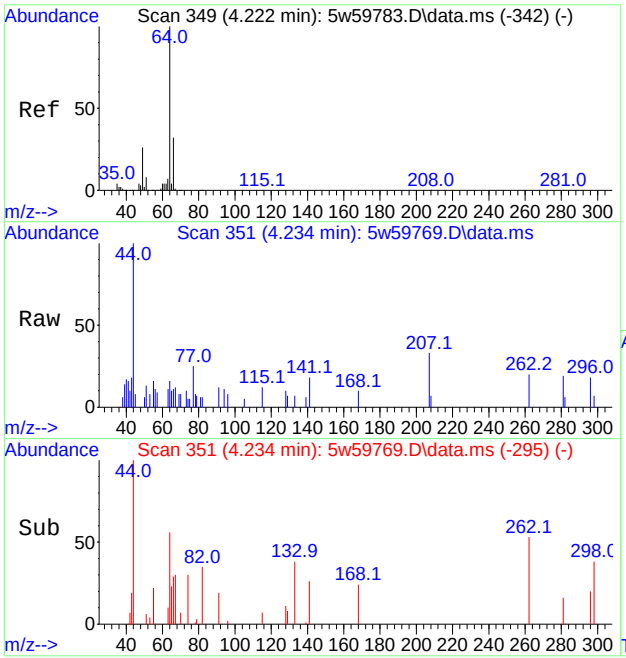


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 4.112 min Scan# 331
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 94 Resp: 2464

Ion	Ratio	Lower	Upper
94	100		
96	140.0	65.3	125.3#
95	36.8	0.0	44.1

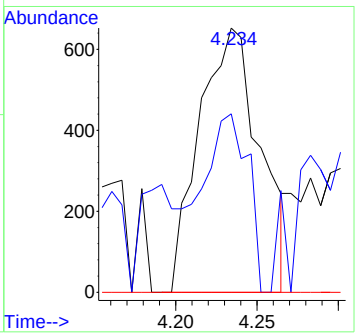


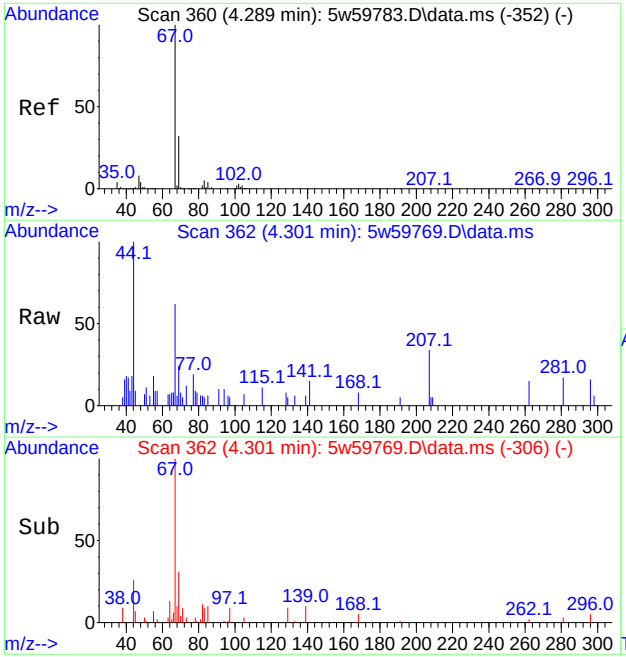


#15
CHLOROETHANE
Concen: 0.08 PPBV m
RT: 4.234 min Scan# 351
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 64 Resp: 1697

Ion	Ratio	Lower	Upper
64	100		
66	45.4	3.1	63.1
49	0.0	0.0	55.3

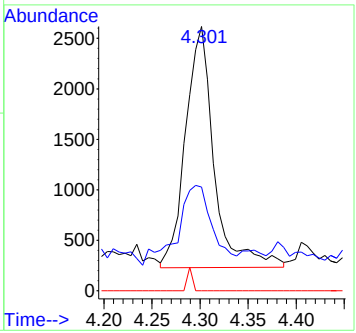


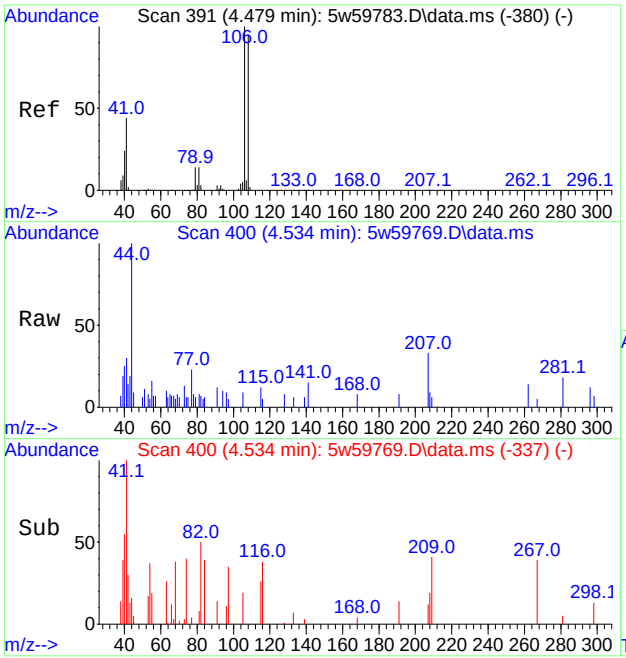


#16
DICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.301 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 4942

Ion	Ratio	Lower	Upper
67	100		
69	40.5	22.7	42.3
47	0.0	5.6	10.4#

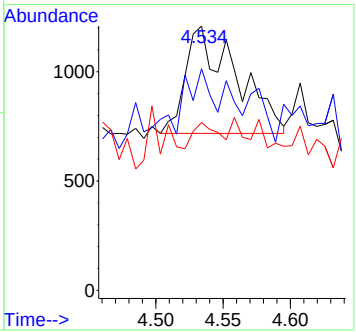


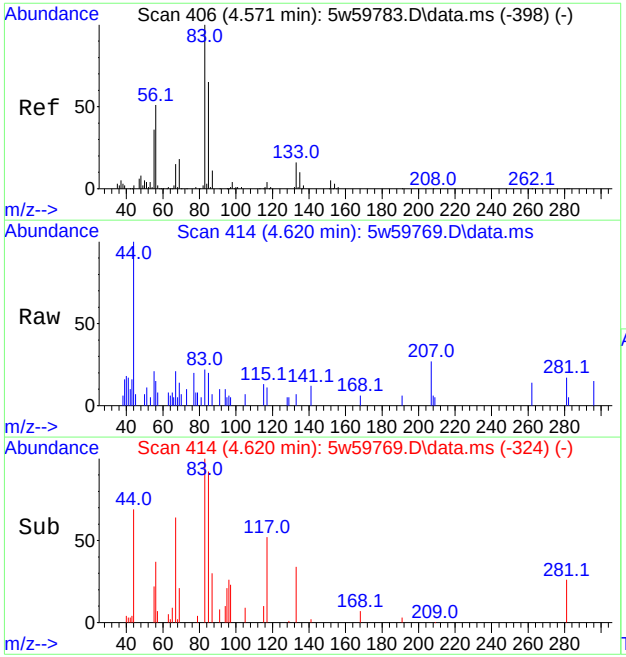


#17
ACETONITRILE
Concen: 0.05 PPBV
RT: 4.534 min Scan# 400
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 1278

Ion	Ratio	Lower	Upper
41	100		
40	81.2	37.9	70.5#
39	0.0	13.4	24.8#

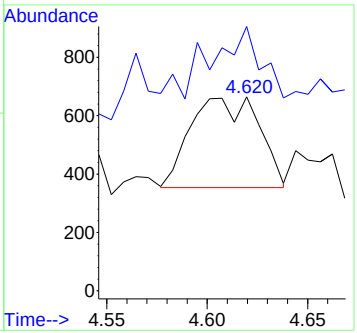


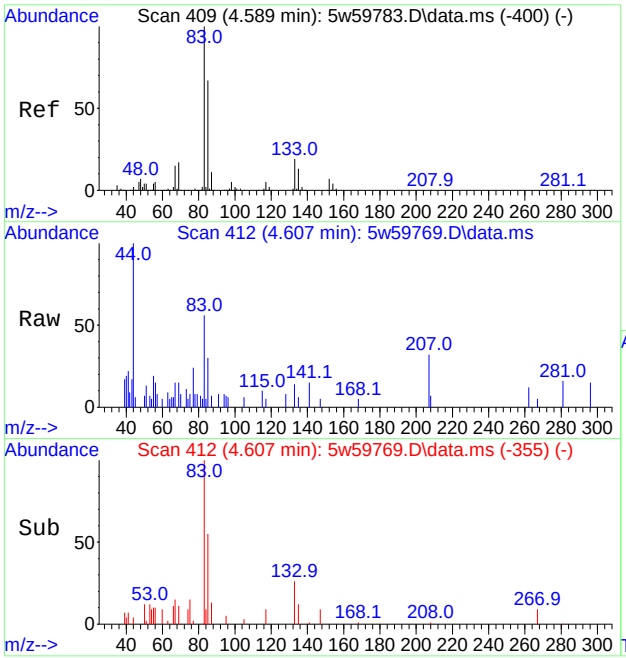


#18
ACROLEIN
Concen: 0.05 PPBV m
RT: 4.620 min Scan# 414
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 56 Resp: 728

Ion	Ratio	Lower	Upper
56	100		
55	401.2	46.6	86.6#

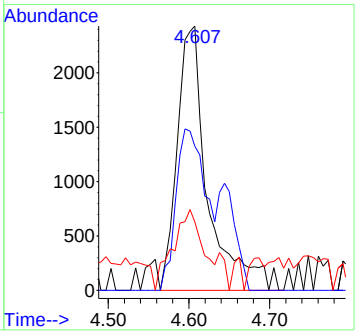


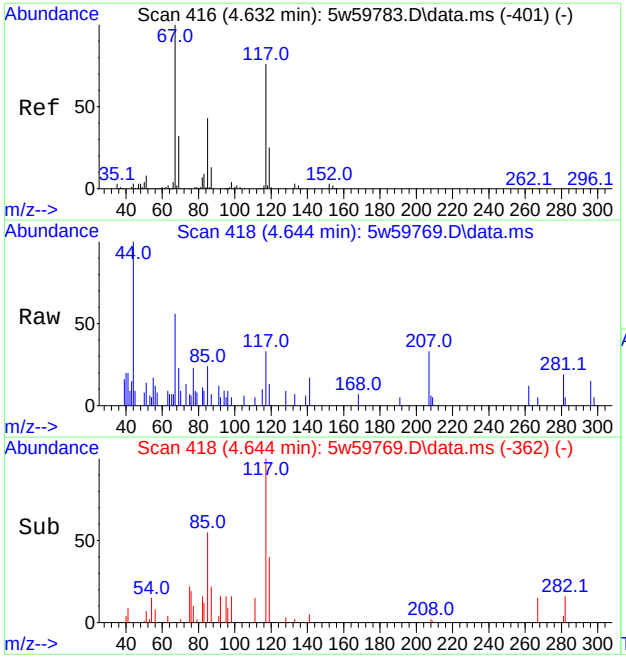


#19
FREON 123
Concen: 0.06 PPBV
RT: 4.607 min Scan# 412
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 6421

Ion	Ratio	Lower	Upper
83	100		
85	82.3	34.0	94.0
133	33.3	0.0	50.7

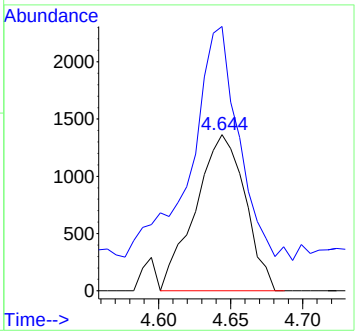


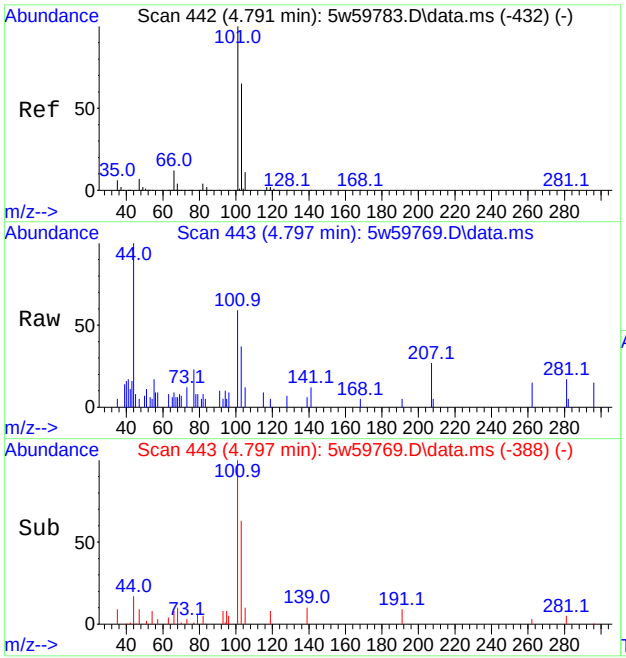


#20
FREON 123A
Concen: 0.05 PPBV
RT: 4.644 min Scan# 418
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 3274

Ion	Ratio	Lower	Upper
117	100		
67	146.4	114.6	174.6

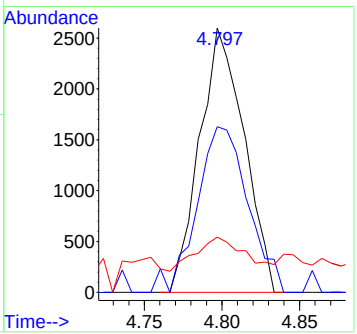


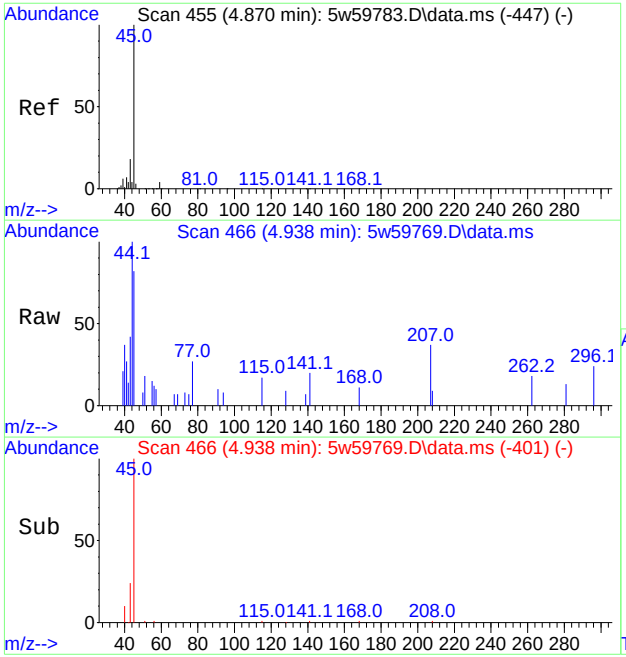


#21
TRICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:101 Resp: 5153

Ion	Ratio	Lower	Upper
101	100		
103	72.3	35.0	95.0
105	51.3	0.0	40.7#

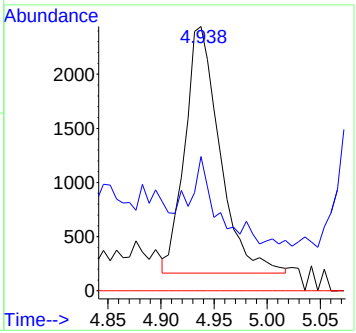


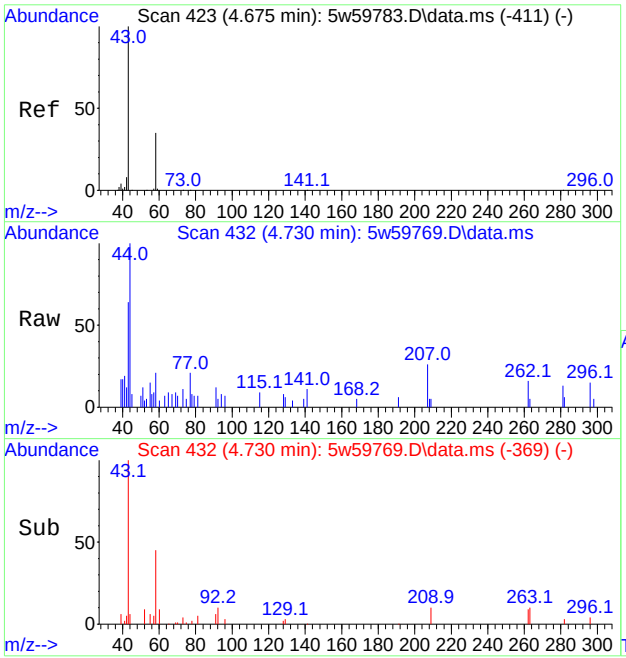


#22
ISOPROPYL ALCOHOL
Concen: 0.06 PPBV m
RT: 4.938 min Scan# 466
Delta R.T. 0.068 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 45 Resp: 5219

Ion	Ratio	Lower	Upper
45	100		
43	50.8	0.0	47.8#
59	0.0	0.0	34.1

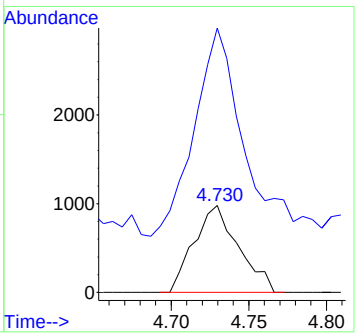


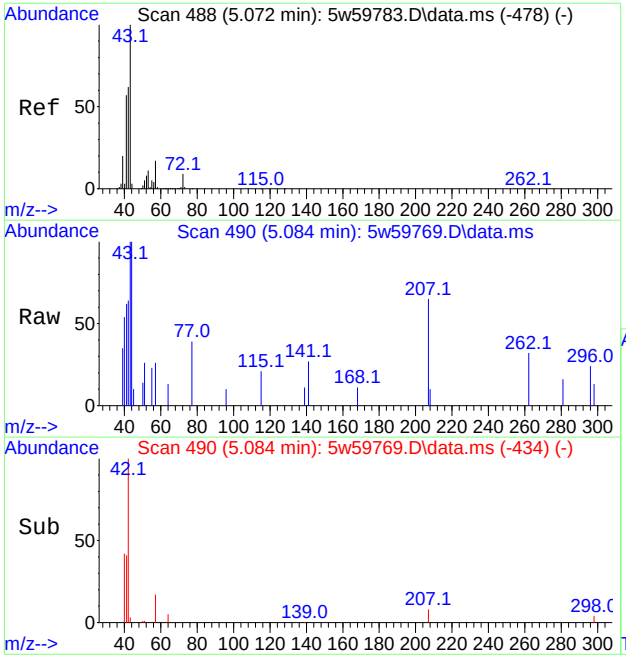


#23
ACETONE
Concen: 0.11 PPBV
RT: 4.730 min Scan# 432
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 58 Resp: 1951

Ion	Ratio	Lower	Upper
58	100		
43	292.5	252.3	312.3

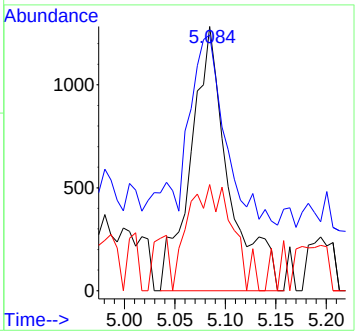


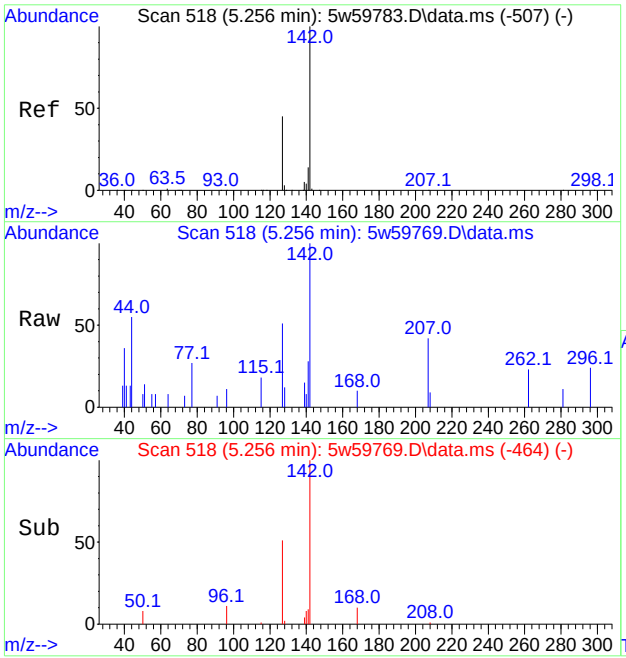


#24
PENTANE
Concen: 0.08 PPBV
RT: 5.084 min Scan# 490
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 42 Resp: 3370

Ion	Ratio	Lower	Upper
42	100		
41	72.5	62.3	122.3
57	46.9	0.0	57.7

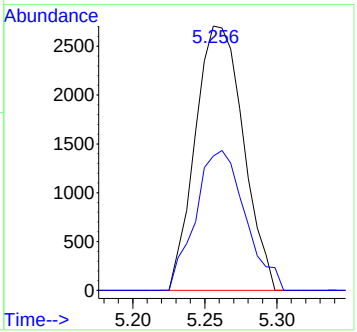


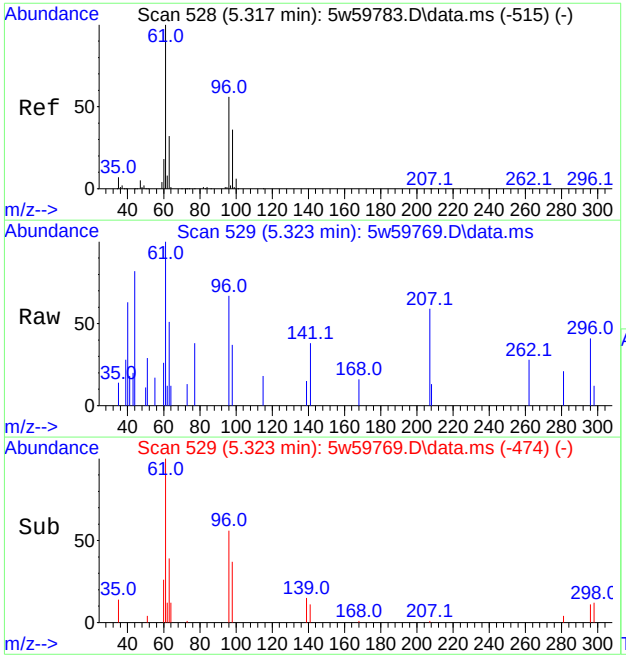


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:142 Resp: 6273

Ion	Ratio	Lower	Upper
142	100		
127	54.7	16.0	76.0

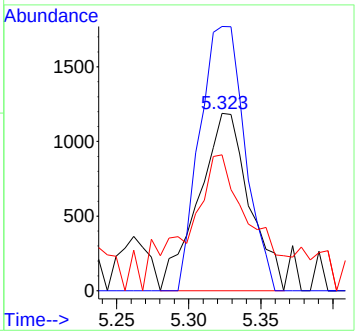


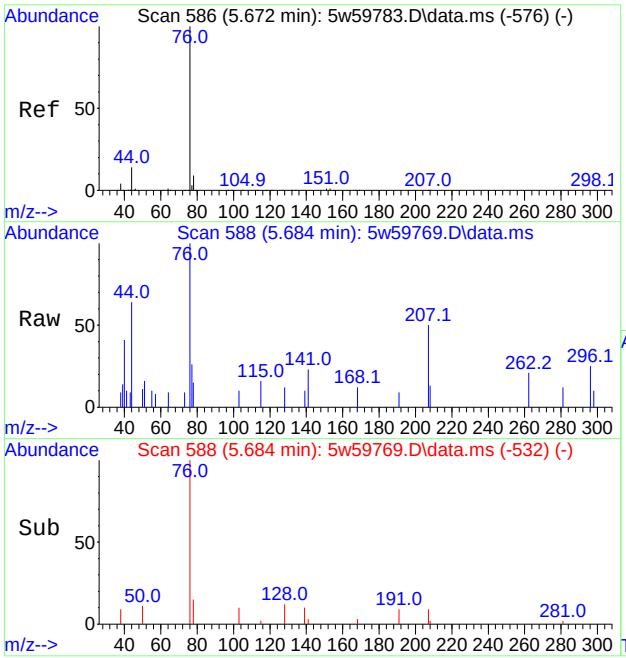


#26
1,1-DICHLOROETHYLENE
Concen: 0.06 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2915

Ion	Ratio	Lower	Upper
96	100		
61	132.6	148.5	208.5#
63	110.9	27.4	87.4#

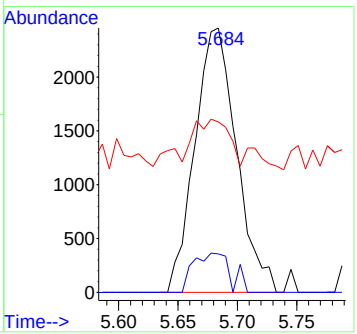


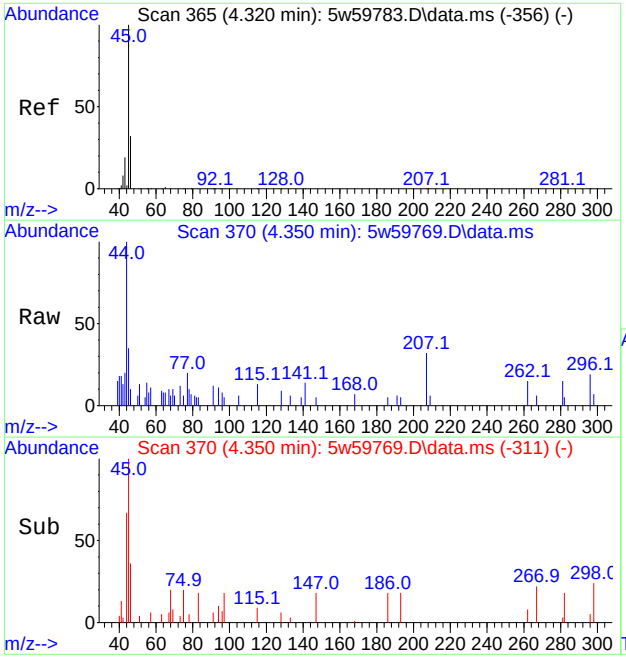


#27
CARBON DISULFIDE
Concen: 0.05 PPBV
RT: 5.684 min Scan# 588
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 5982

Ion	Ratio	Lower	Upper
76	100		
78	13.3	0.0	41.5
44	20.2	0.0	44.6

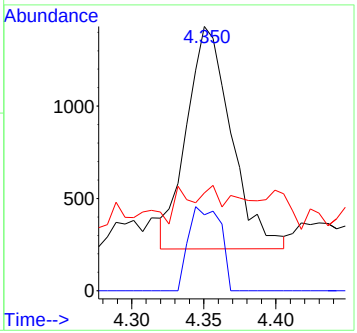


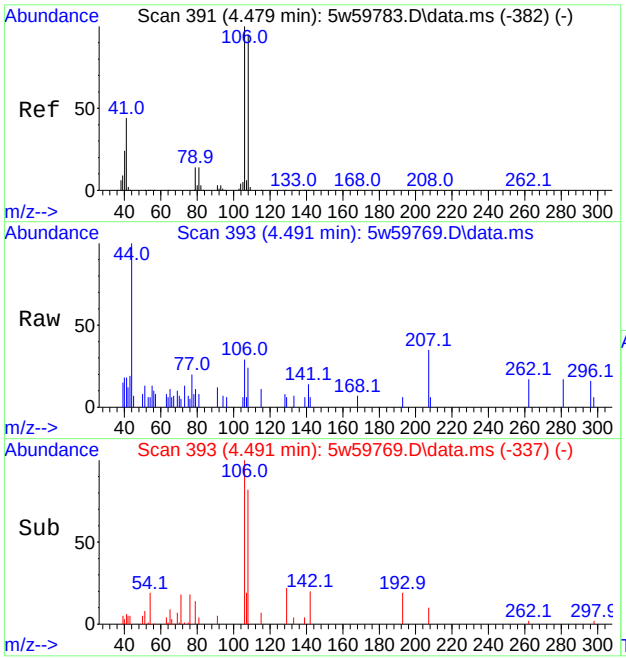


#28
ETHANOL
Concen: 0.17 PPBV
RT: 4.350 min Scan# 370
Delta R.T. 0.030 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 45 Resp: 2592

Ion	Ratio	Lower	Upper
45	100		
46	27.1	2.0	62.0
42	34.5	0.0	38.5

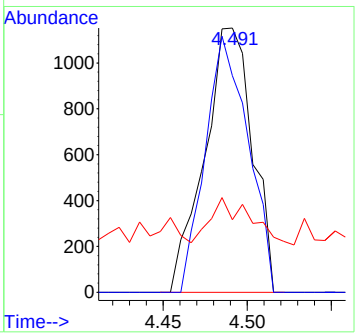


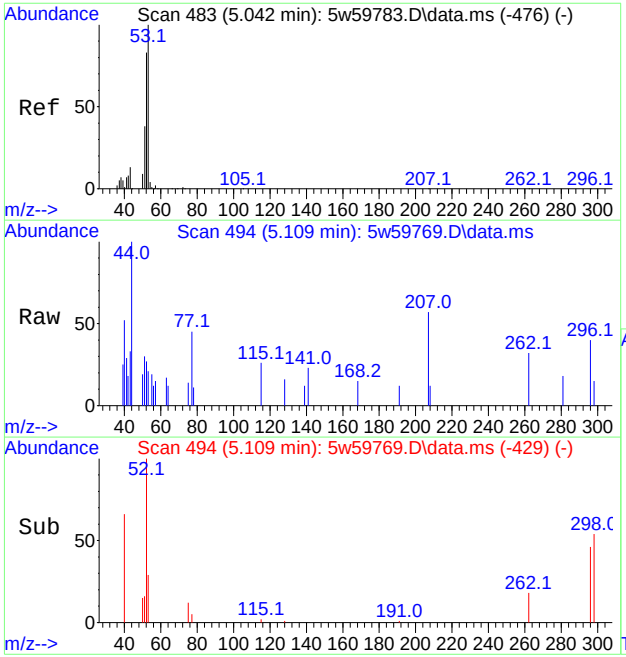


#29
BROMOETHENE
Concen: 0.05 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 2283

Ion	Ratio	Lower	Upper
106	100		
108	86.8	65.6	125.6
81	103.9	0.0	43.9#

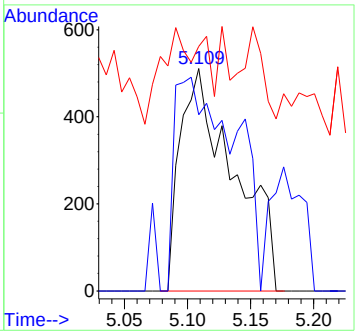


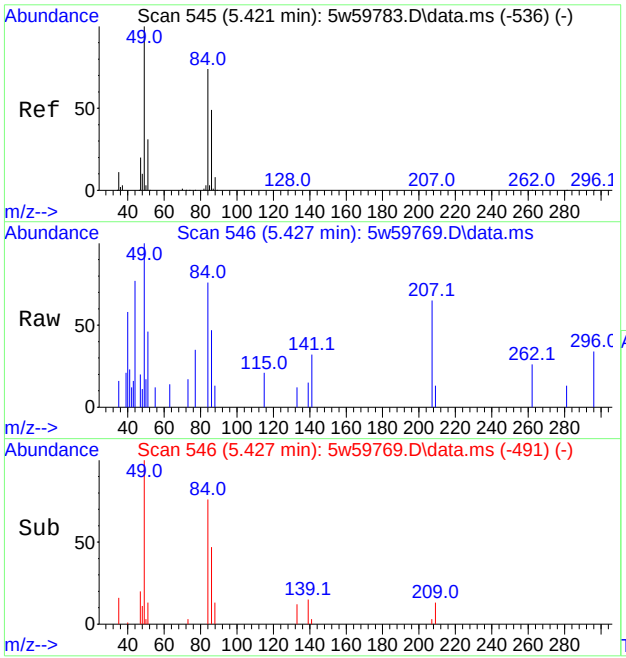


#30
ACRYLONITRILE
Concen: 0.05 PPBV
RT: 5.109 min Scan# 494
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 1514

Ion	Ratio	Lower	Upper
52	100		
53	107.2	85.8	159.4
51	0.0	32.3	60.1#

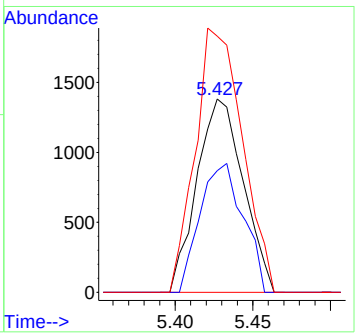


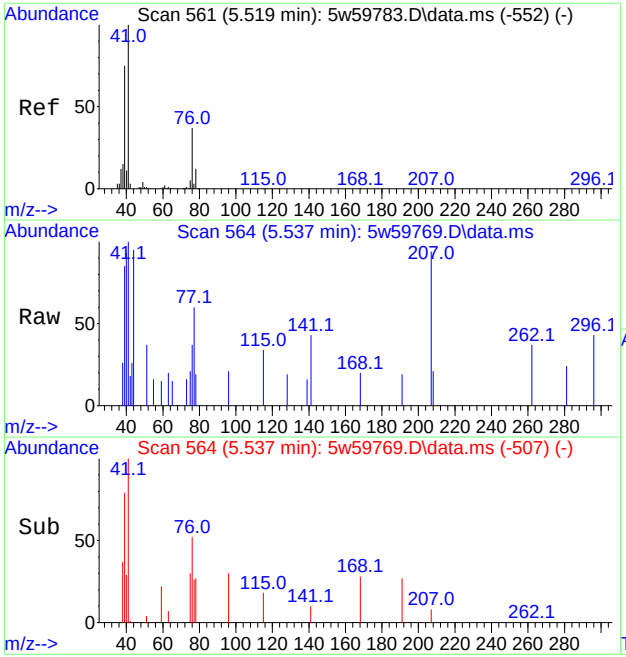


#31
METHYLENE CHLORIDE
Concen: 0.06 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2871

Ion	Ratio	Lower	Upper
84	100		
86	61.9	35.2	95.2
49	139.0	105.3	165.3

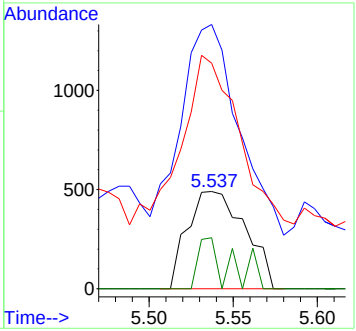


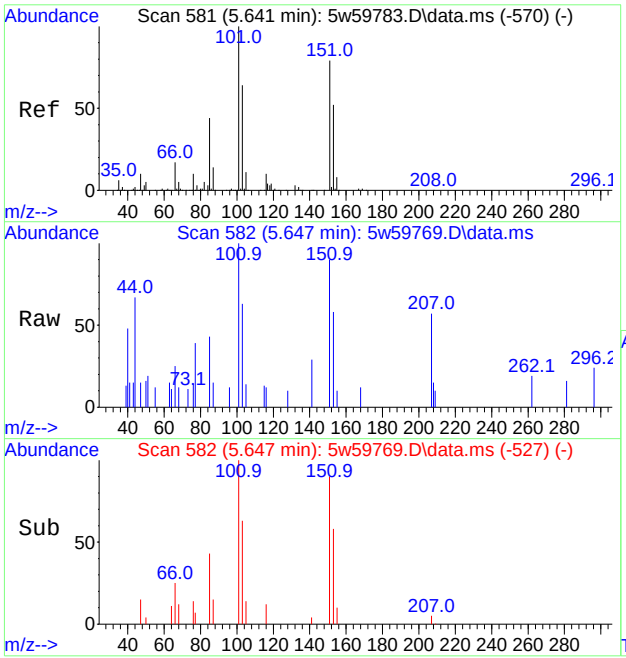


#32
3-CHLOROPROPENE
Concen: 0.05 PPBV
RT: 5.537 min Scan# 564
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 1170

Ion	Ratio	Lower	Upper
76	100		
41	199.4	240.8	300.8#
39	168.5	173.6	233.6#
78	15.9	2.8	62.8

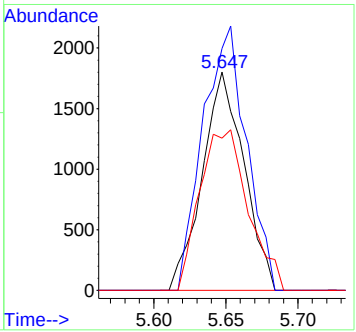


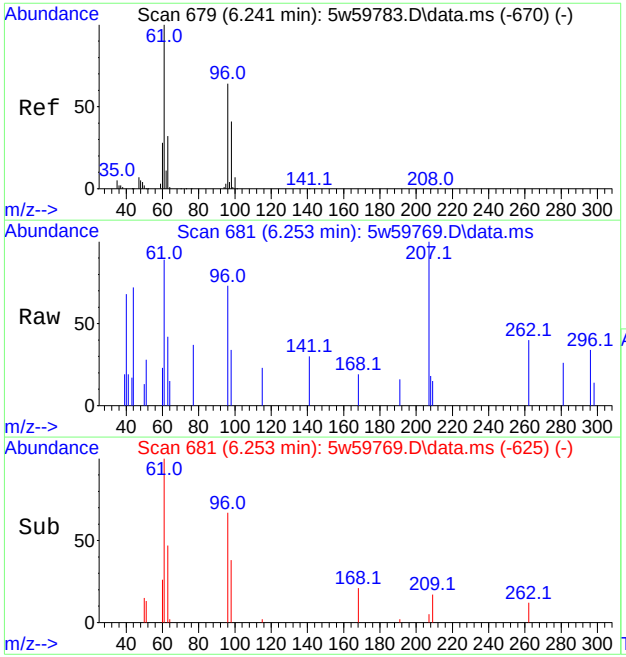


#33
FREON 113
Concen: 0.04 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:151 Resp: 3628

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	85.4	52.5	112.5

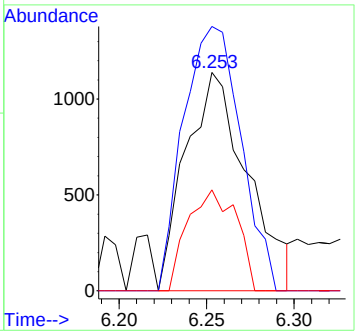


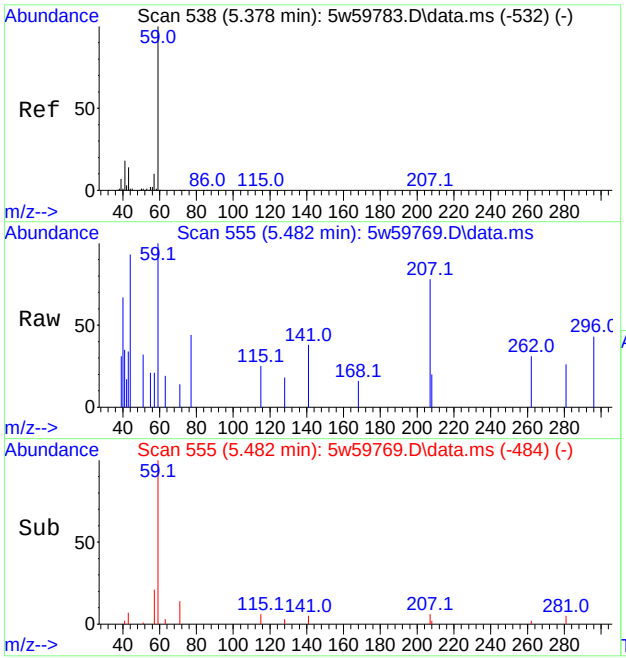


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.05 PPBV m
RT: 6.253 min Scan# 681
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2781

Ion	Ratio	Lower	Upper
96	100		
61	113.3	126.4	186.4#
98	36.7	34.1	94.1

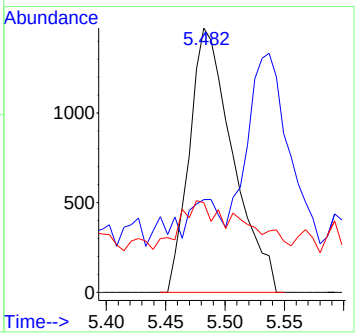


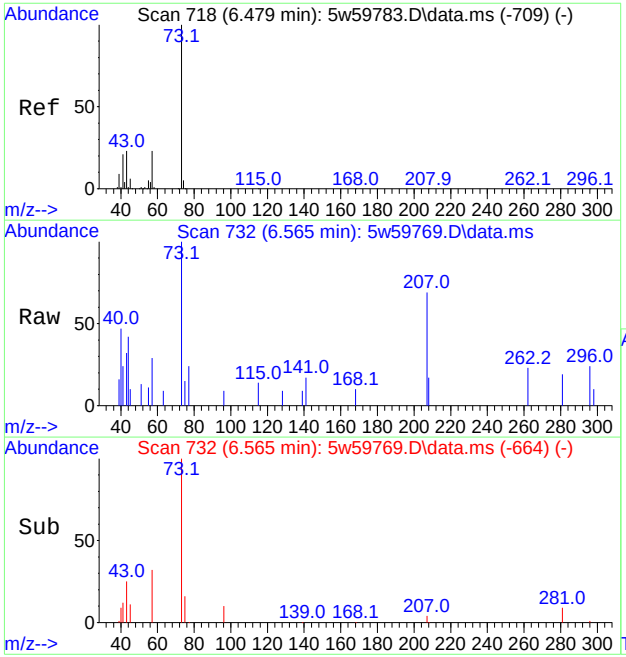


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.04 PPBV
RT: 5.482 min Scan# 555
Delta R.T. 0.104 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 3750

Ion	Ratio	Lower	Upper
59	100		
41	11.0	0.0	49.3
43	25.6	0.0	44.1

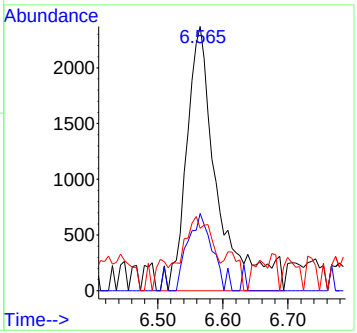


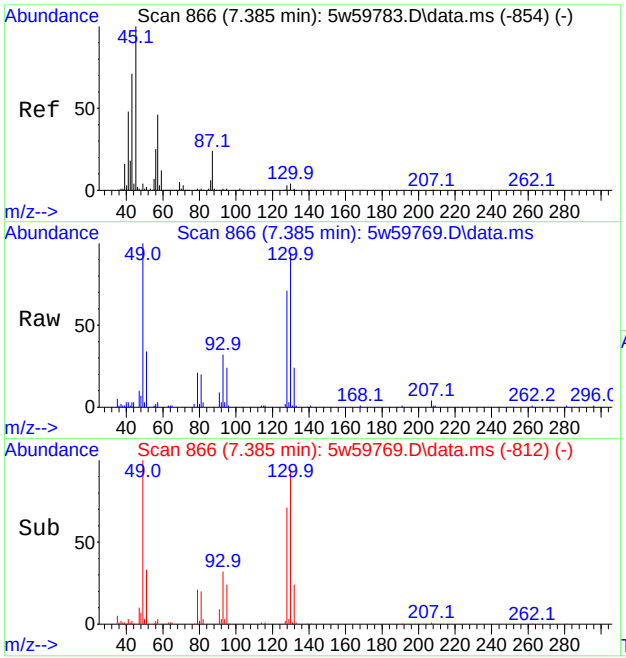


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.06 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.086 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 73 Resp: 7842

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	30.5	0.0	50.6

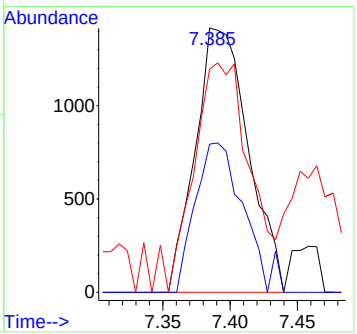


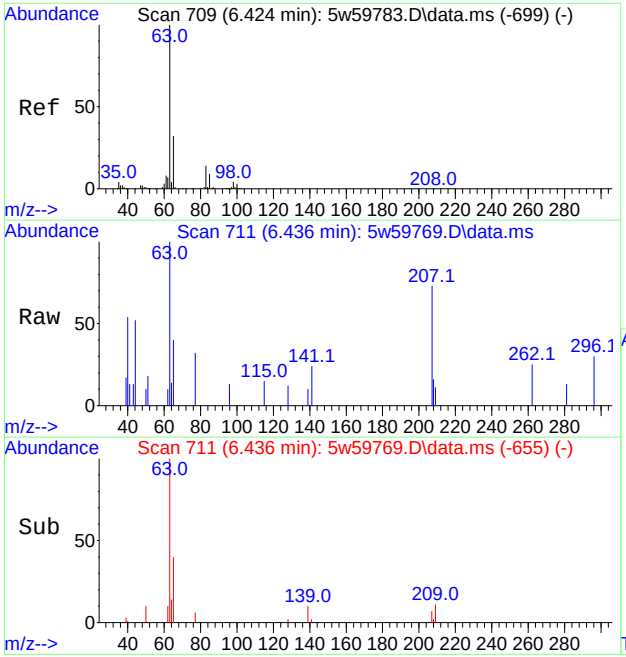


#38
HEXANE
Concen: 0.05 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 3894

Ion	Ratio	Lower	Upper
57	100		
56	51.6	25.9	85.9
41	90.7	74.7	134.7

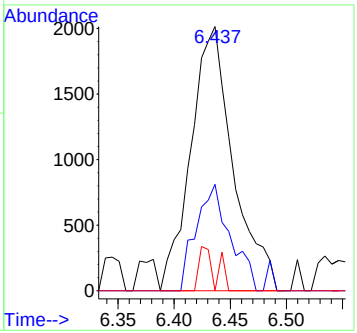


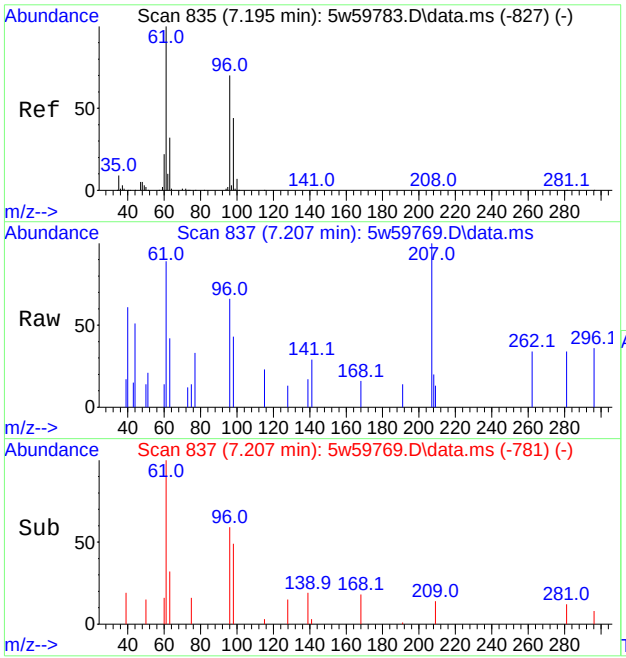


#40
1,1-DICHLOROETHANE
Concen: 0.06 PPBV
RT: 6.436 min Scan# 711
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 5305

Ion	Ratio	Lower	Upper
63	100		
65	32.5	1.7	61.7
83	6.6	0.0	43.5

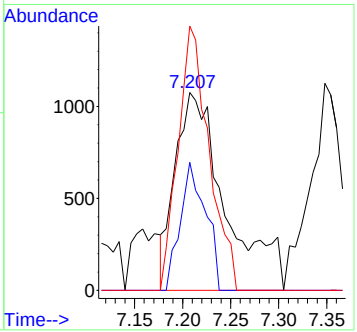


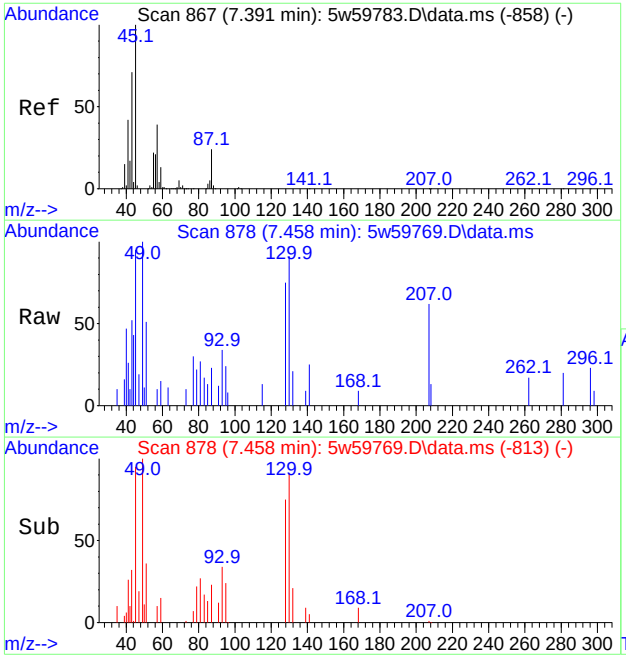


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.07 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 3901

Ion	Ratio	Lower	Upper
96	100		
98	32.6	34.0	94.0#
61	82.7	111.5	171.5#

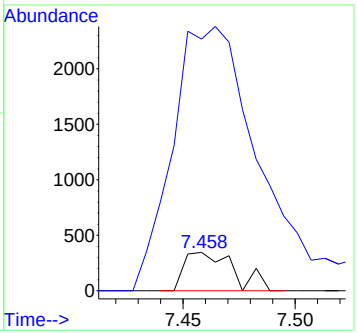


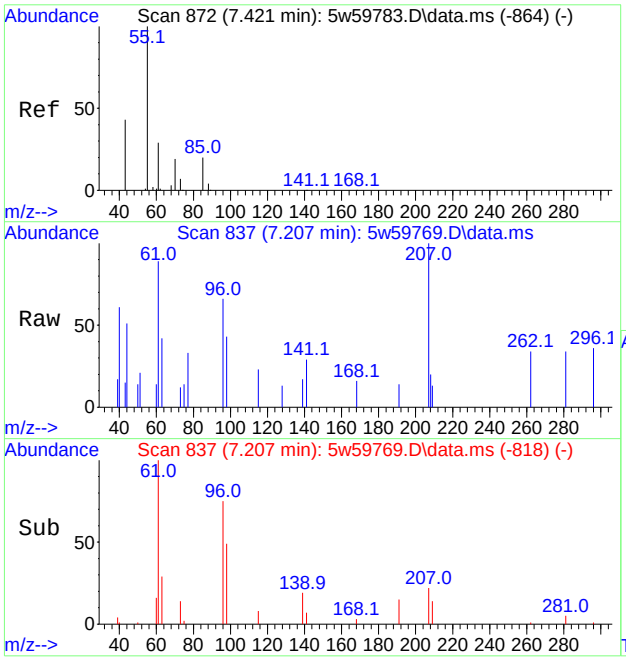


#43
DIISOPROPYL ETHER
Concen: 0.03 PPBV
RT: 7.458 min Scan# 878
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 536

Ion	Ratio	Lower	Upper
59	100		
45	1232.1	720.9	780.9#

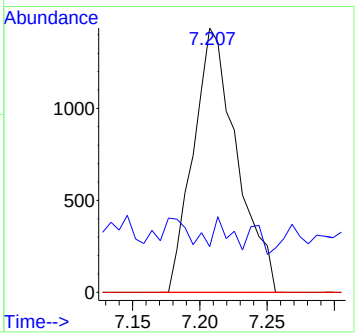


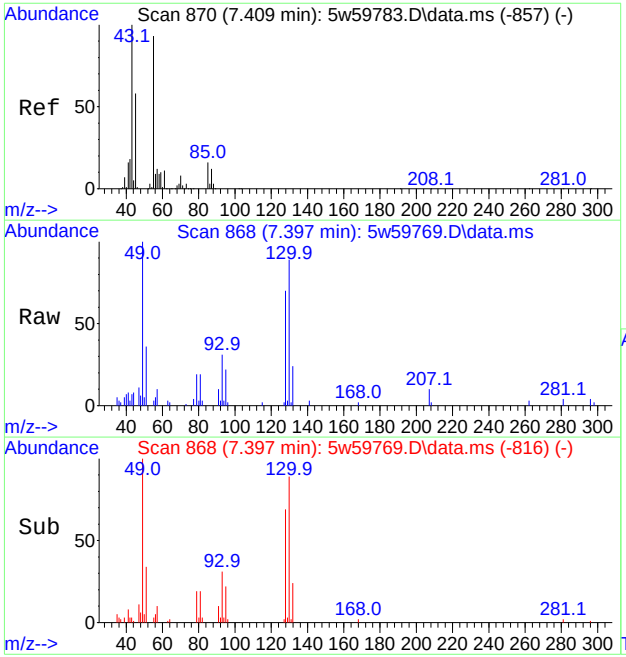


#44
ETHYL ACETATE
Concen: 0.23 PPBV
RT: 7.207 min Scan# 837
Delta R.T. -0.214 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 61 Resp: 3226

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	0.0	4.5	64.5#

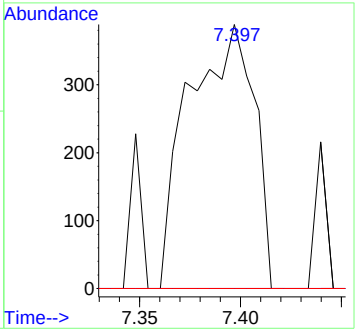


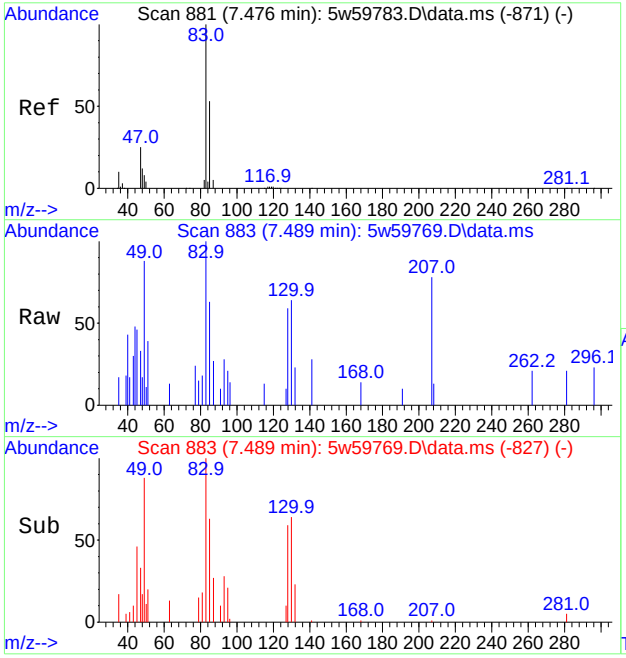


#45
METHYL ACRYLATE
Concen: 0.01 PPBV
RT: 7.397 min Scan# 868
Delta R.T. -0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 55 Resp: 878

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

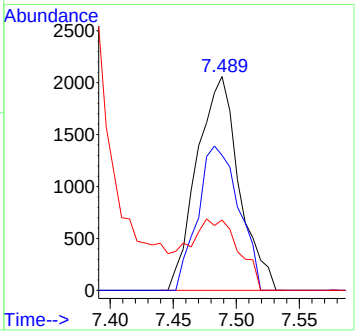


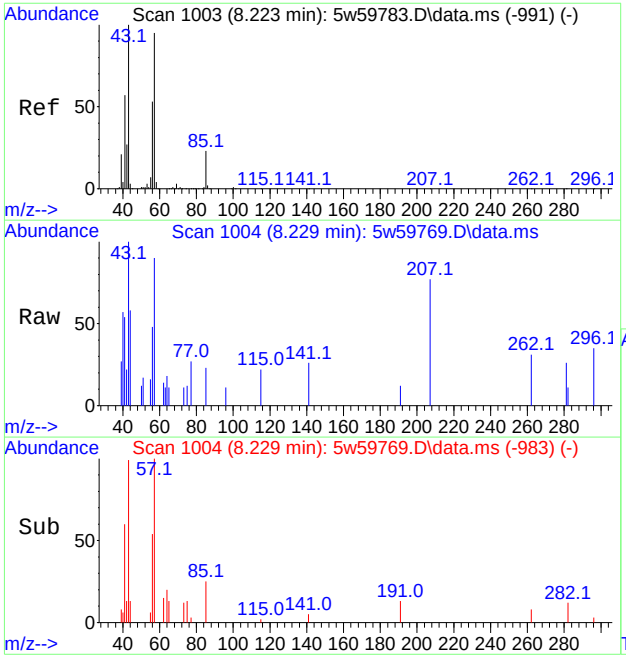


#46
CHLOROFORM
Concen: 0.05 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4783

Ion	Ratio	Lower	Upper
83	100		
85	65.9	35.6	95.6
47	0.0	0.0	55.2

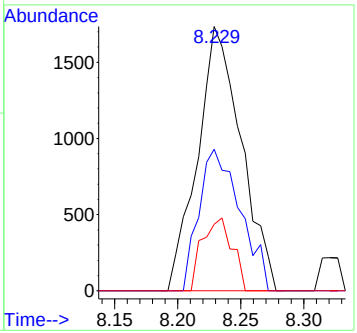


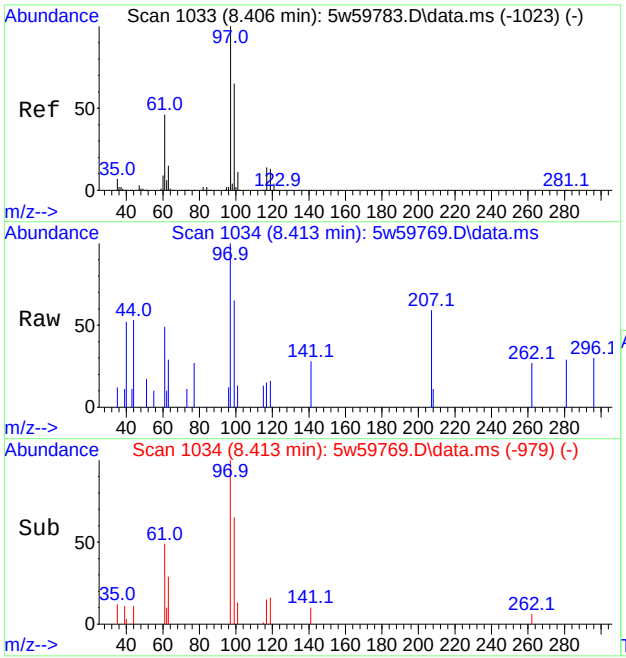


#47
2,4-DIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 4175

Ion	Ratio	Lower	Upper
57	100		
56	50.5	26.5	86.5
85	18.8	0.0	53.8

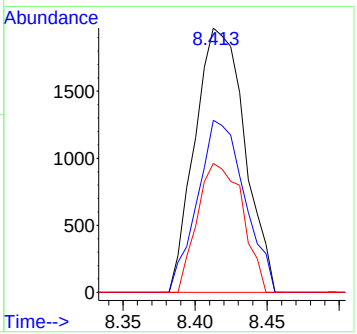


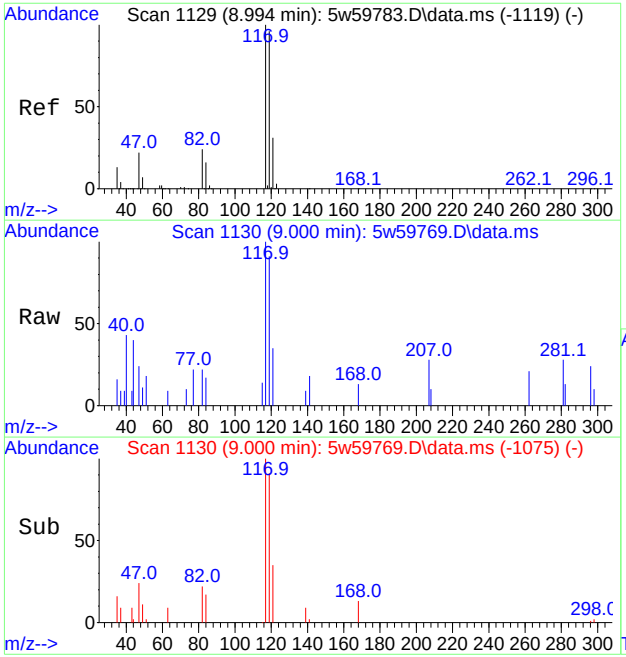


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 97 Resp: 4728

Ion	Ratio	Lower	Upper
97	100		
99	61.8	34.8	94.8
61	44.4	15.8	75.8

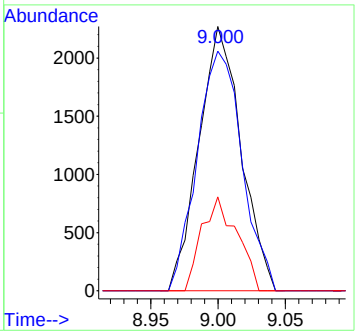


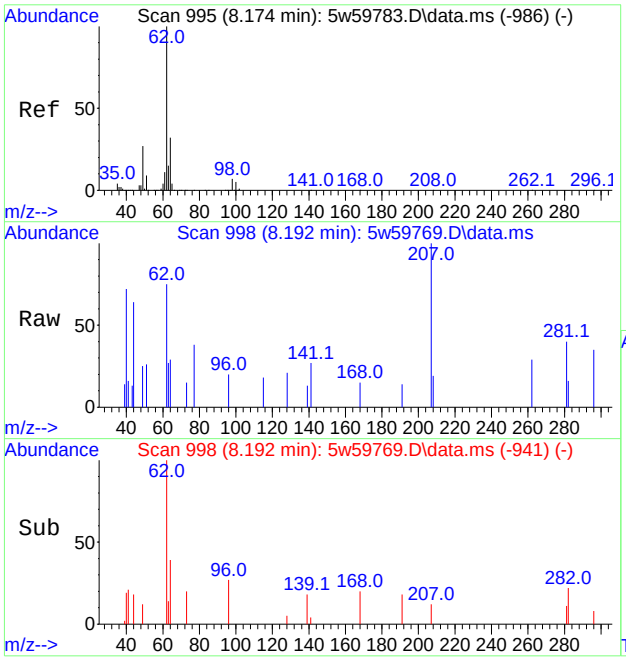


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4970

Ion	Ratio	Lower	Upper
117	100		
119	96.1	66.9	126.9
121	29.5	1.3	61.3

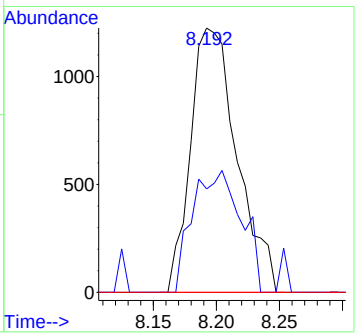


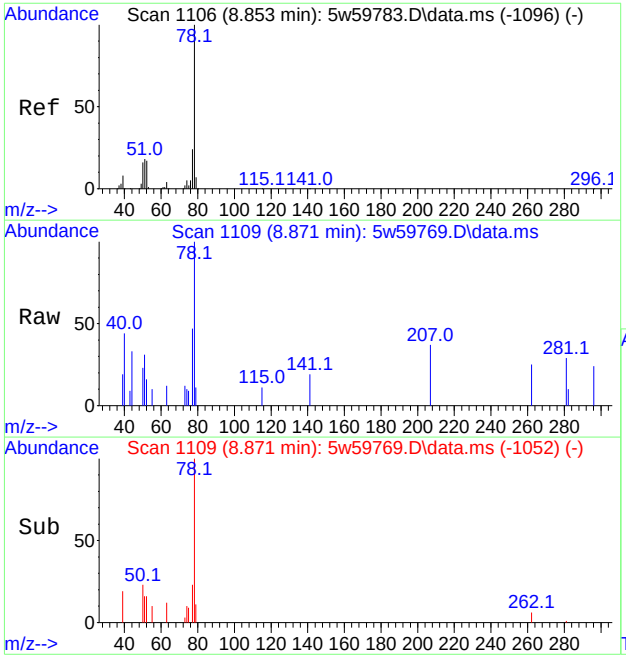


#50
1,2-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.192 min Scan# 998
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 3147

Ion	Ratio	Lower	Upper
62	100		
64	48.3	2.3	62.3
98	0.0	0.0	36.9

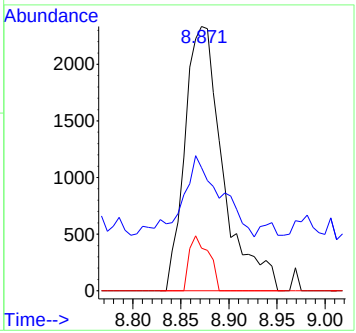


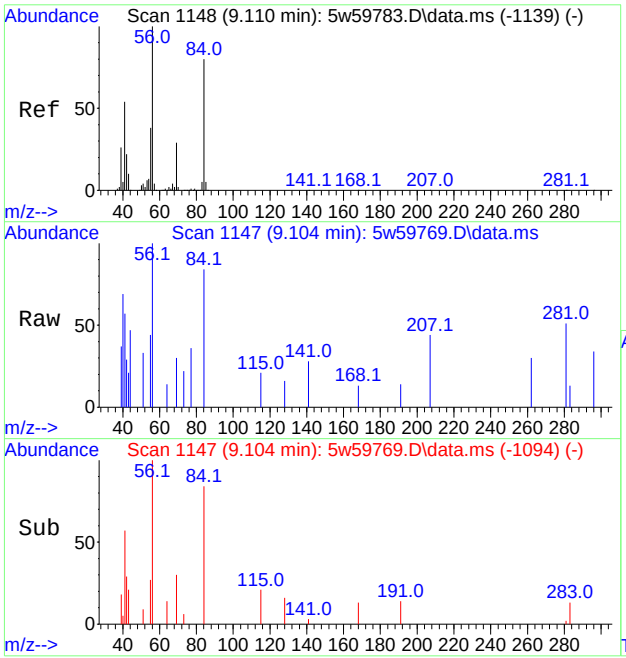


#52
BENZENE
Concen: 0.05 PPBV
RT: 8.871 min Scan# 1109
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 78 Resp: 6471

Ion	Ratio	Lower	Upper
78	100		
77	31.7	0.0	53.8
52	10.6	0.0	46.9

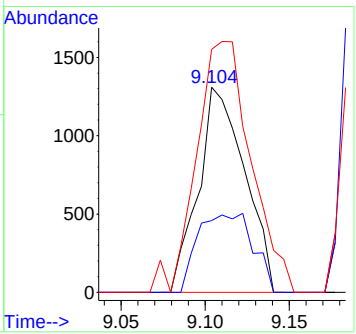


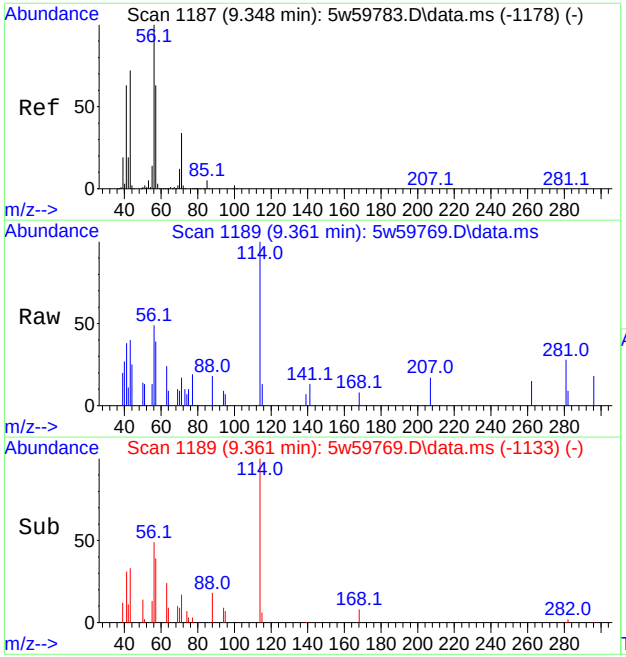


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2517

Ion	Ratio	Lower	Upper
84	100		
69	45.4	6.9	66.9
56	143.8	98.2	158.2

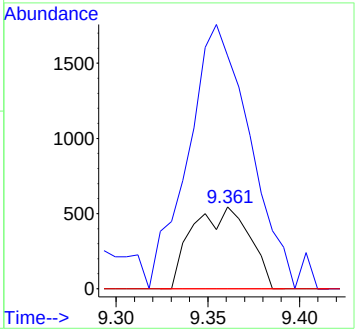


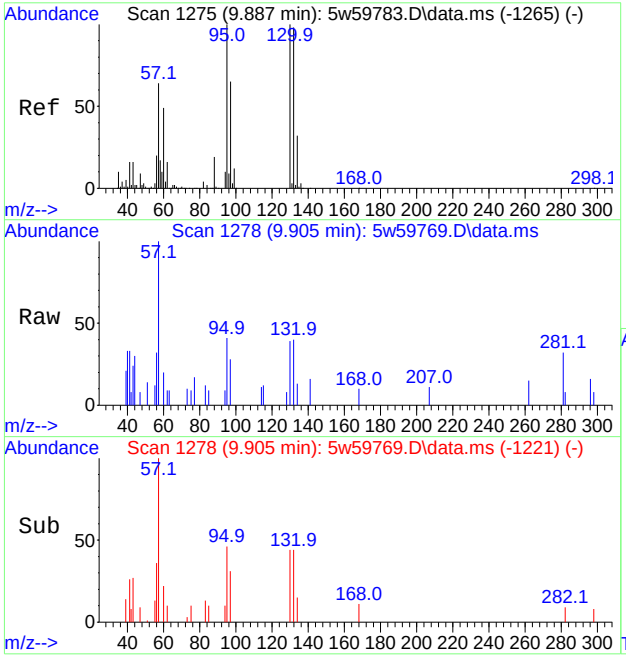


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 71 Resp: 1176

Ion	Ratio	Lower	Upper
71	100		
56	356.8	264.6	324.6#
85	0.0	0.0	45.3

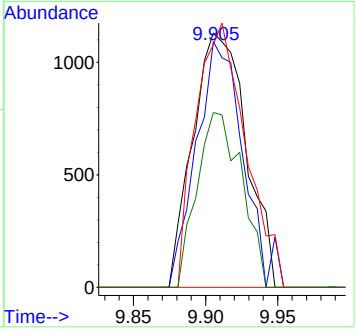


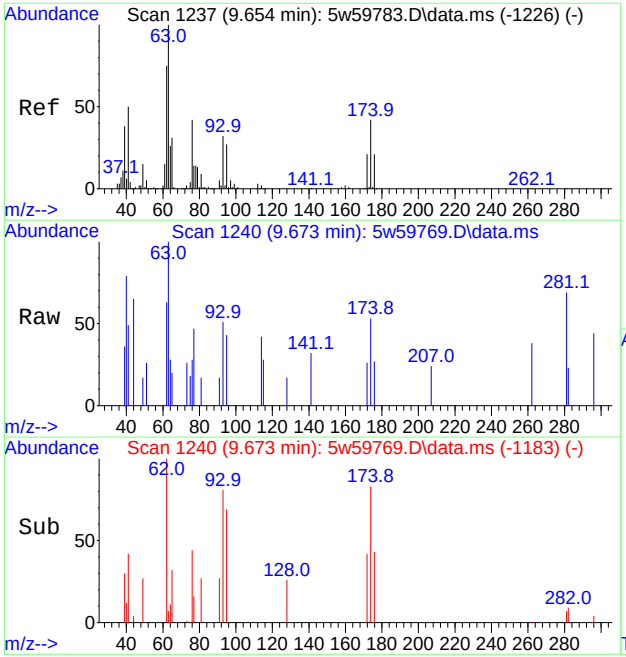


#55
TRICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 9.905 min Scan# 1278
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 95 Resp: 2913

Ion	Ratio	Lower	Upper
95	100		
132	84.8	69.0	129.0
130	97.2	70.6	130.6
97	57.5	34.6	94.6

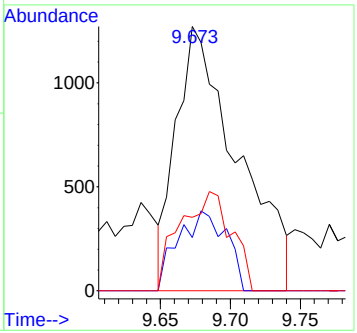


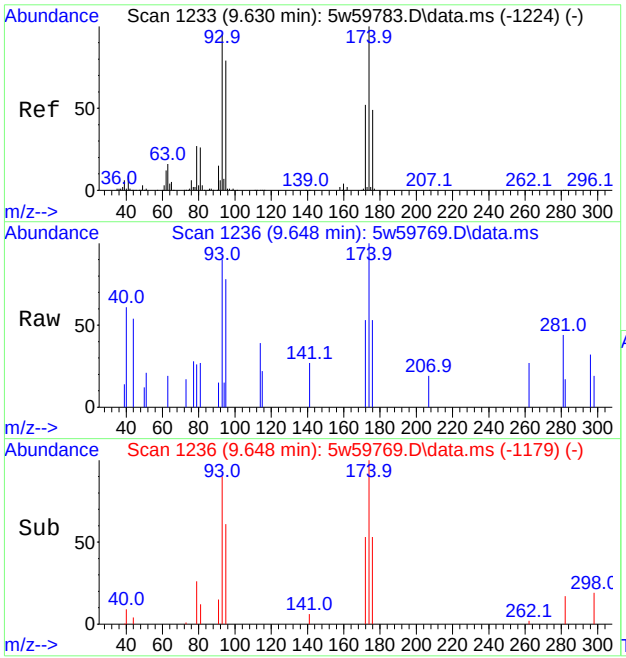


#56
1,2-DICHLOROPROPANE
Concen: 0.06 PPBV m
RT: 9.673 min Scan# 1240
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 3887

Ion	Ratio	Lower	Upper
63	100		
65	23.5	0.5	60.5
76	31.3	11.5	71.5

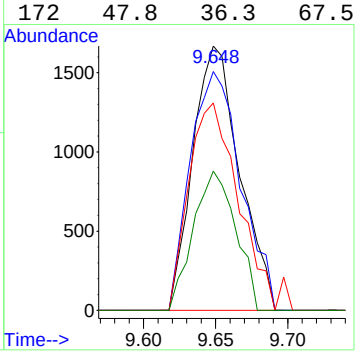


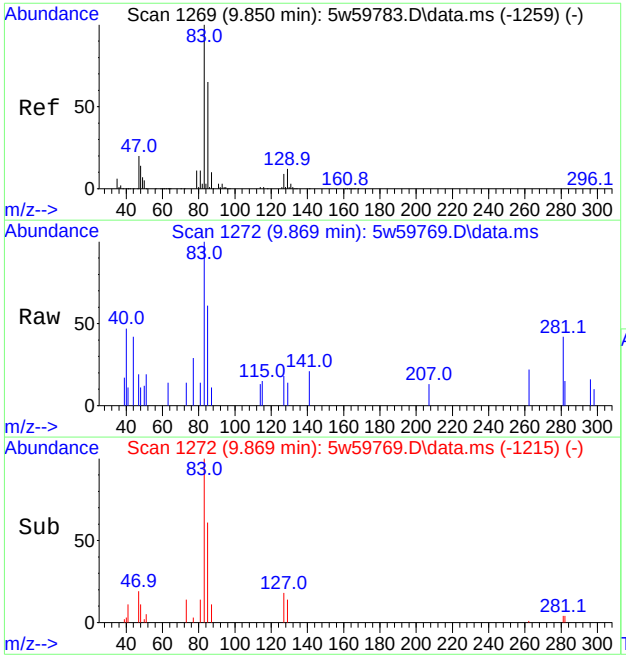


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:174 Resp: 3768

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	84.4	54.5	101.1
172	47.8	36.3	67.5

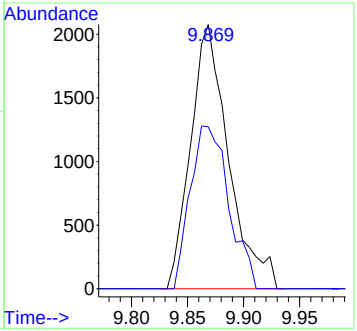


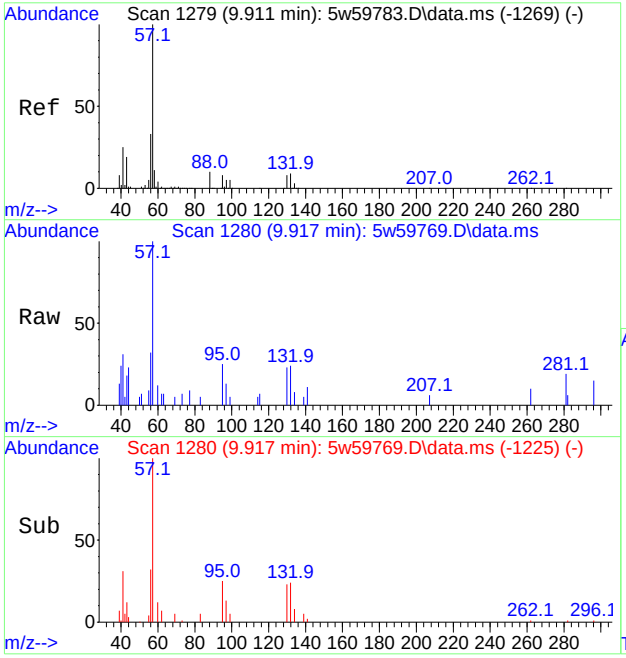


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 9.869 min Scan# 1272
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4912

Ion	Ratio	Lower	Upper
83	100		
85	62.2	33.4	93.4

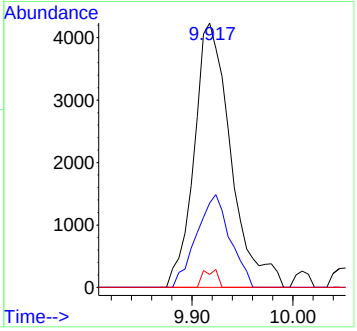


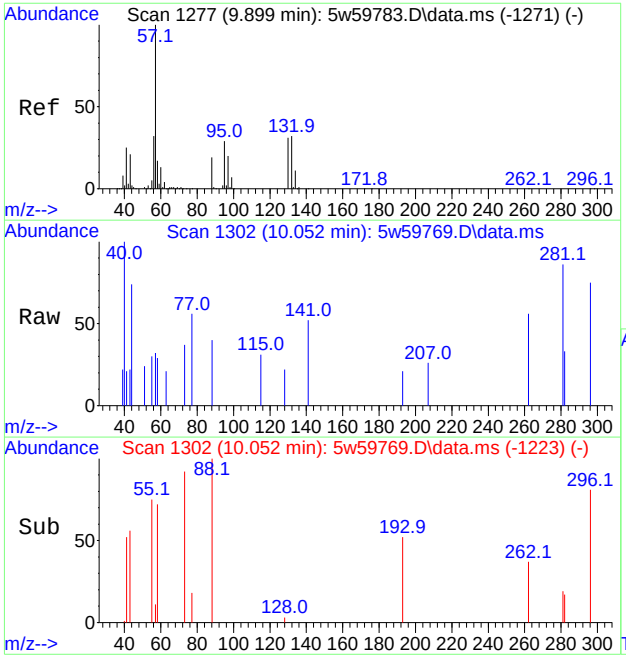


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 10699

Ion	Ratio	Lower	Upper
57	100		
56	32.2	2.5	62.5
99	2.6	0.0	37.3

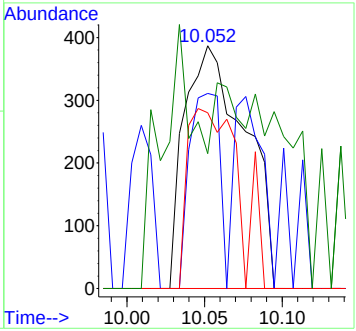


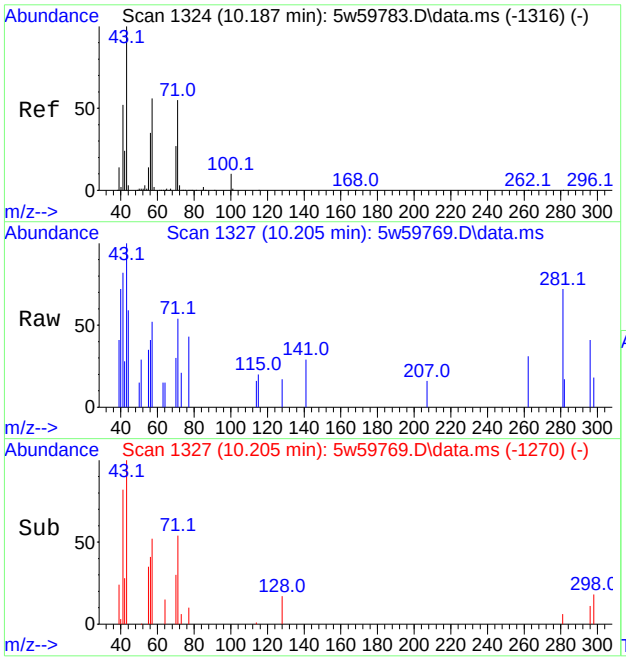


#61
1,4-DIOXANE
Concen: 0.03 PPBV
RT: 10.052 min Scan# 1302
Delta R.T. 0.153 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 88 Resp: 1059

Ion	Ratio	Lower	Upper
88	100		
57	80.4	494.2	554.2#
58	72.4	58.9	118.9
43	55.6	78.3	138.3#

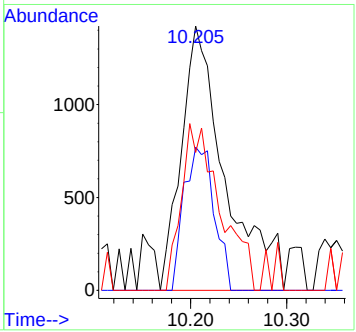


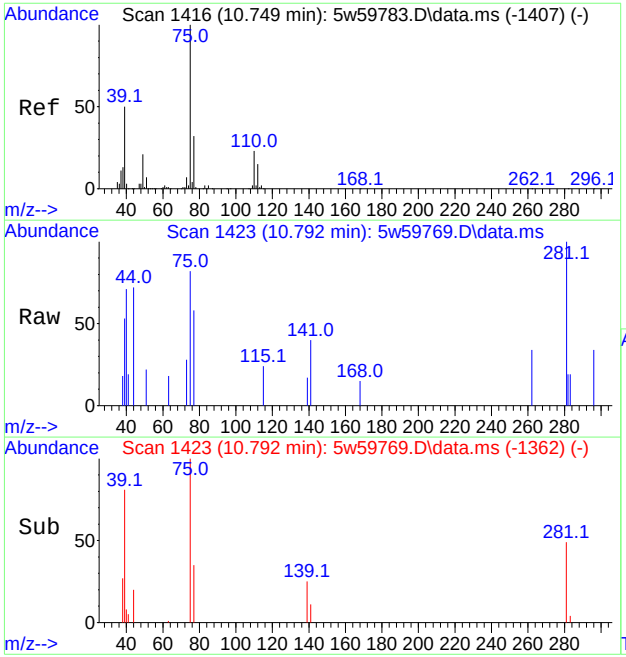


#62
HEPTANE
Concen: 0.06 PPBV
RT: 10.205 min Scan# 1327
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 4522

Ion	Ratio	Lower	Upper
43	100		
71	37.6	24.5	84.5
57	55.7	26.2	86.2

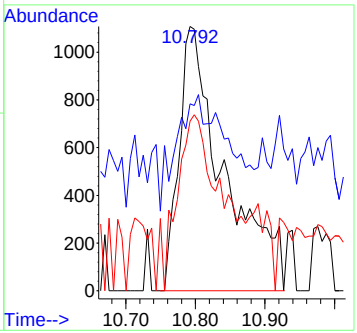


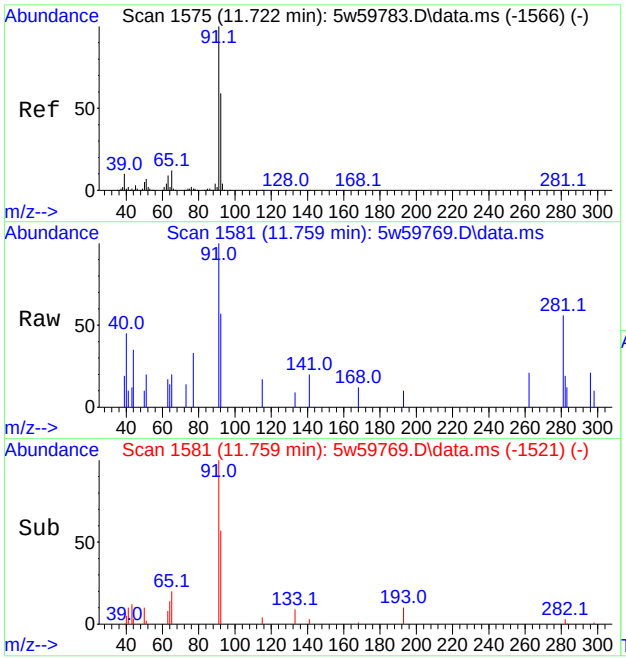


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4969

Ion	Ratio	Lower	Upper
75	100		
77	49.8	2.2	62.2
39	78.5	34.3	94.3

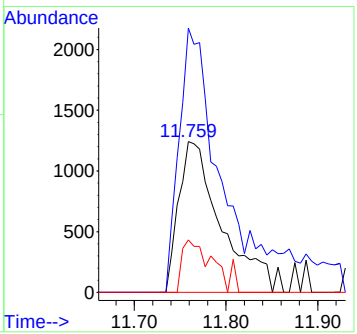


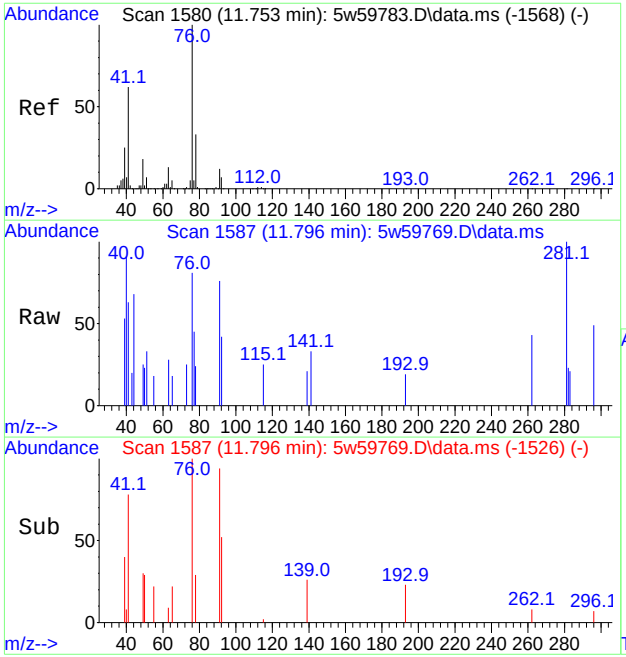


#66
TOLUENE
Concen: 0.04 PPBV
RT: 11.759 min Scan# 1581
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 92 Resp: 4059

Ion	Ratio	Lower	Upper
92	100		
91	195.5	140.1	200.1
65	22.8	0.0	53.1

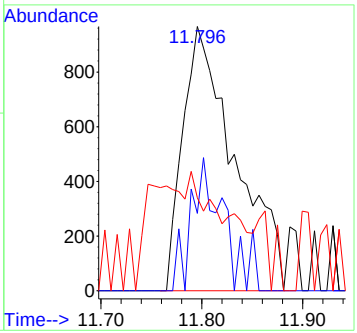


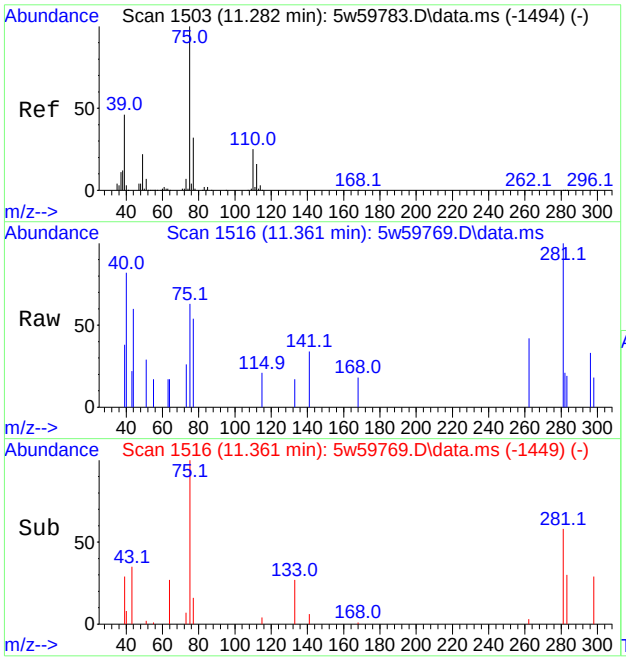


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 11.796 min Scan# 1587
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 3478

Ion	Ratio	Lower	Upper
76	100		
78	27.2	23.2	43.0
63	71.6	7.1	13.1#

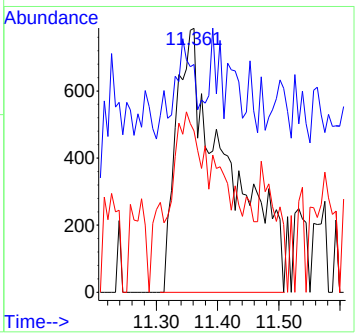


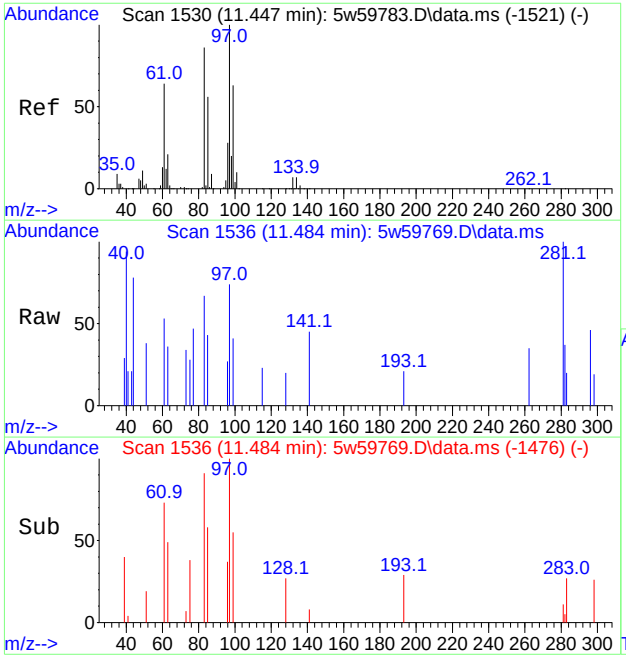


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 11.361 min Scan# 1516
Delta R.T. 0.079 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4586

Ion	Ratio	Lower	Upper
75	100		
77	16.9	1.6	61.6
39	35.7	16.1	76.1

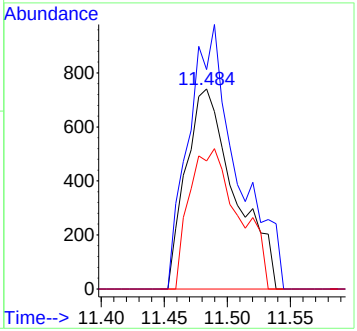


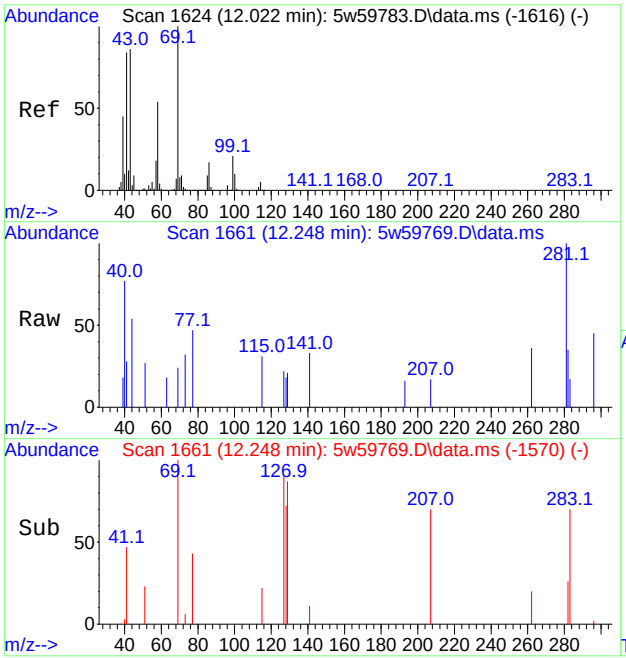


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 11.484 min Scan# 1536
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 2006

Ion	Ratio	Lower	Upper
83	100		
97	130.6	86.3	146.3
85	70.5	35.3	95.3

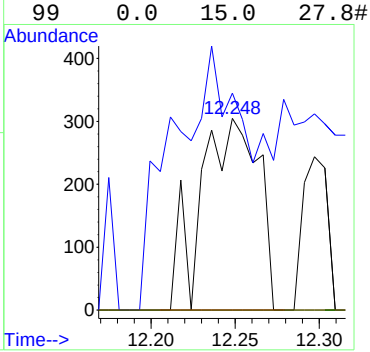


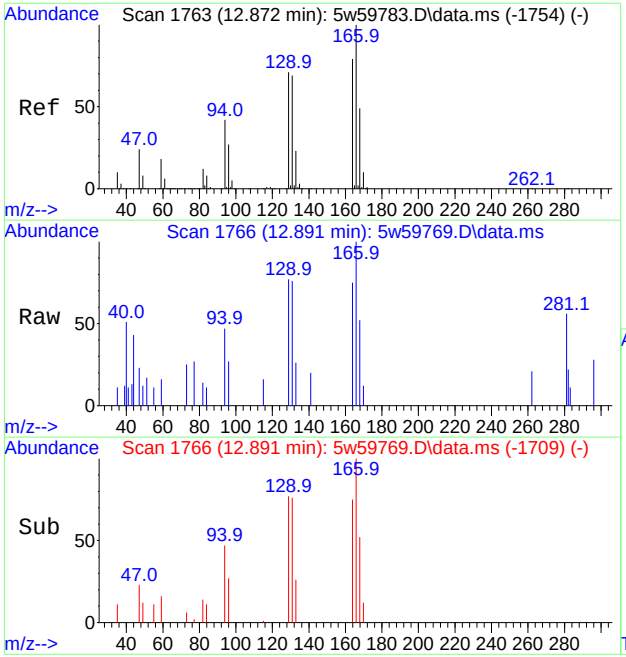


#72
ETHYL METHACRYLATE
Concen: 0.01 PPBV
RT: 12.248 min Scan# 1661
Delta R.T. 0.226 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 69 Resp: 735

Ion	Ratio	Lower	Upper
69	100		
41	291.7	64.0	119.0#
86	0.0	12.0	22.4#
99	0.0	15.0	27.8#

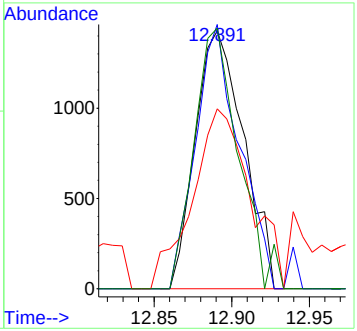


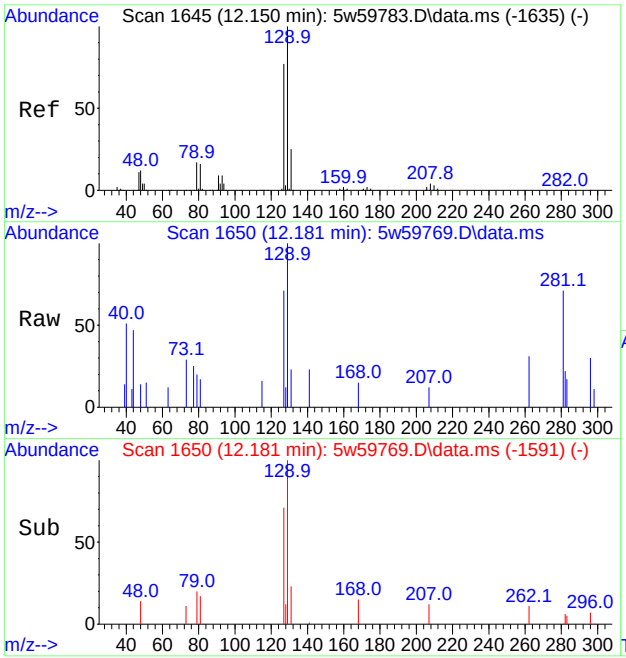


#73
TETRACHLOROETHYLENE
Concen: 0.04 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:164 Resp: 3089

Ion	Ratio	Lower	Upper
164	100		
129	93.4	59.7	119.7
168	83.4	32.2	92.2
131	92.9	57.8	117.8

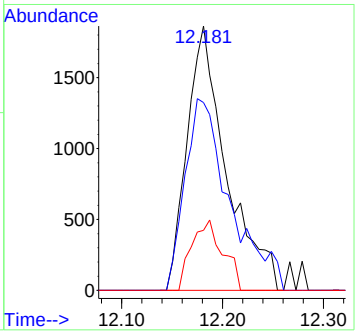


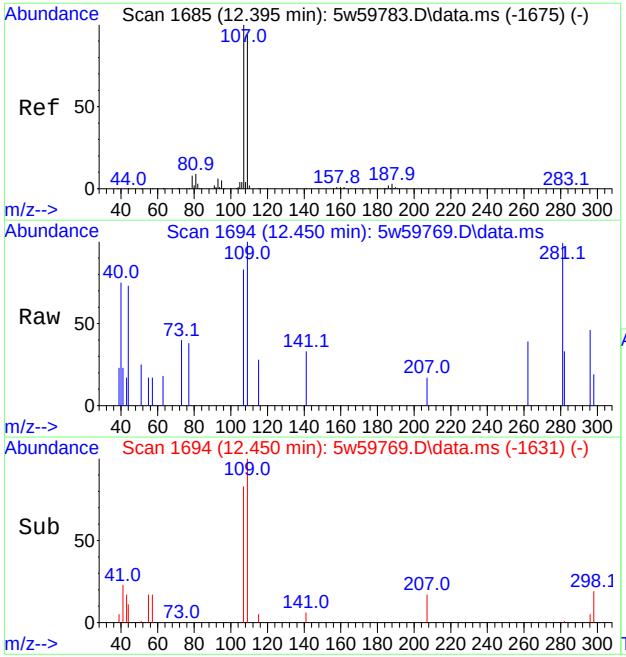


#74
DIBROMOCHLOROMETHANE
Concen: 0.04 PPBV
RT: 12.181 min Scan# 1650
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:129 Resp: 5067

Ion	Ratio	Lower	Upper
129	100		
127	82.7	47.1	107.1
131	21.0	0.0	54.5

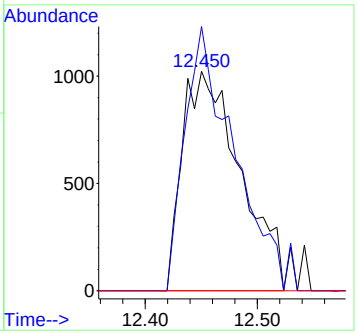


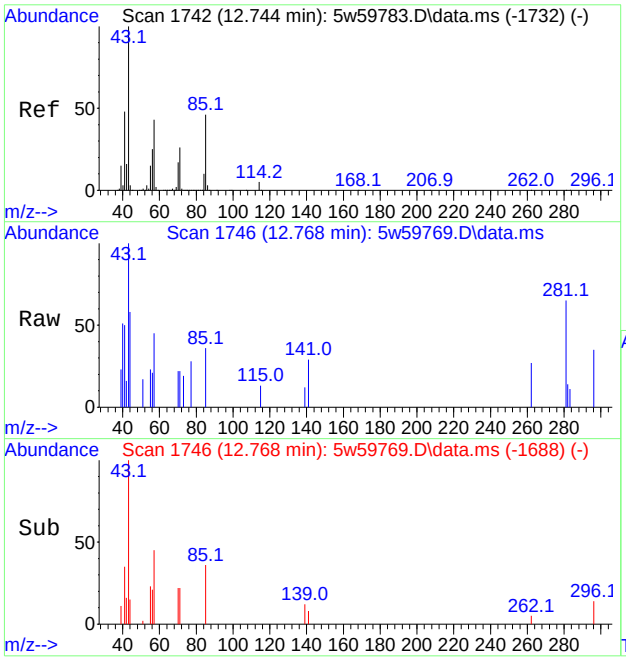


#75
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 12.450 min Scan# 1694
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:107 Resp: 3668

Ion	Ratio	Lower	Upper
107	100		
109	103.5	64.8	124.8
188	0.0	0.0	32.8

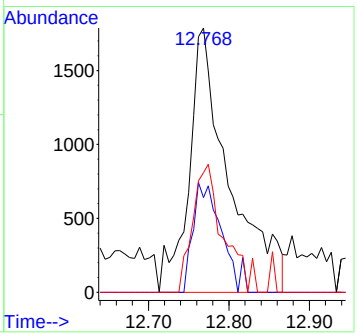


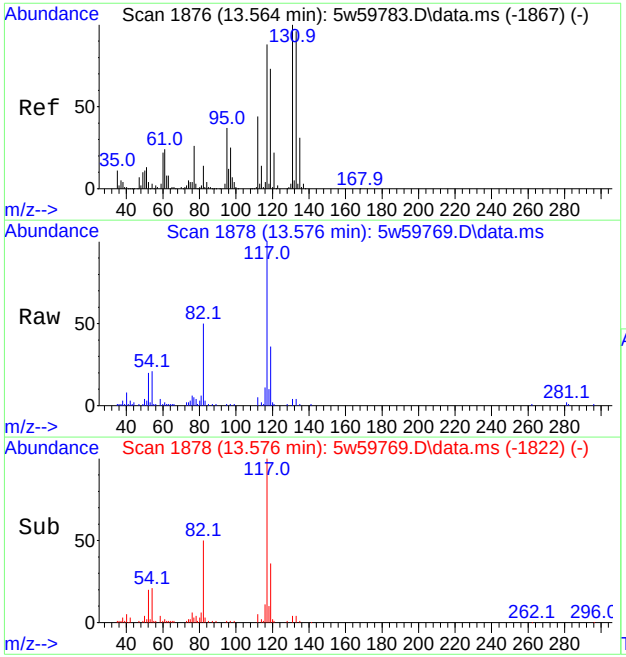


#76
OCTANE
Concen: 0.07 PPBV m
RT: 12.768 min Scan# 1746
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 6243

Ion	Ratio	Lower	Upper
43	100		
85	29.3	14.6	74.6
57	37.0	13.7	73.7

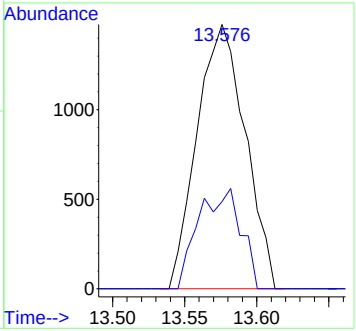


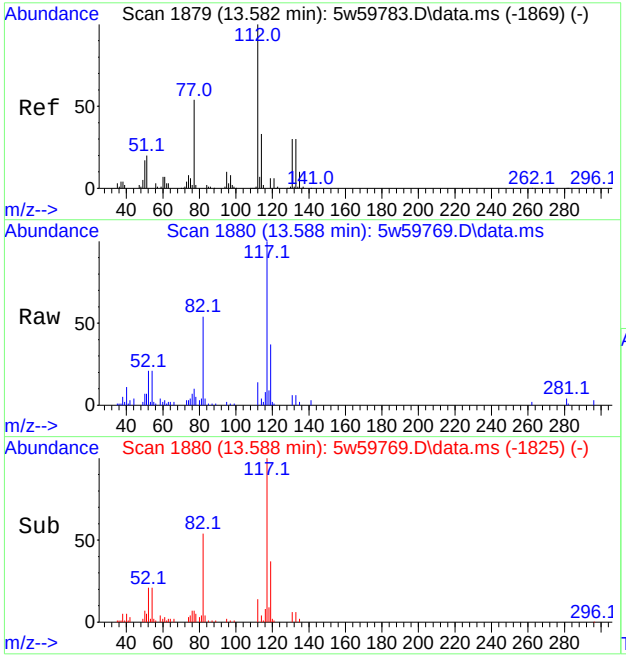


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:131 Resp: 3434

Ion	Ratio	Lower	Upper
131	100		
95	33.4	6.5	66.5

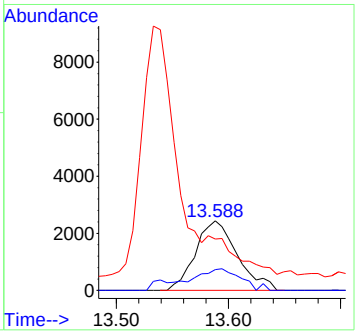


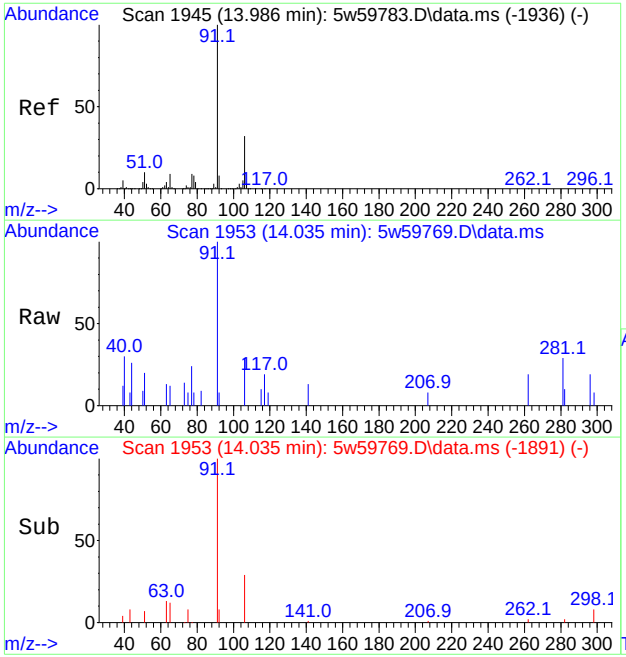


#78
CHLOROBENZENE
Concen: 0.05 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:112 Resp: 6320

Ion	Ratio	Lower	Upper
112	100		
114	30.4	2.6	62.6
77	0.0	25.4	85.4#

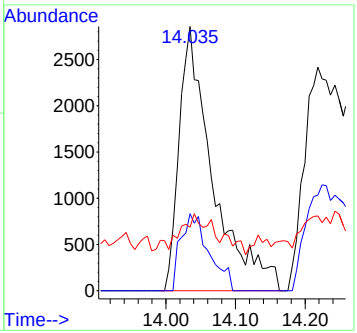


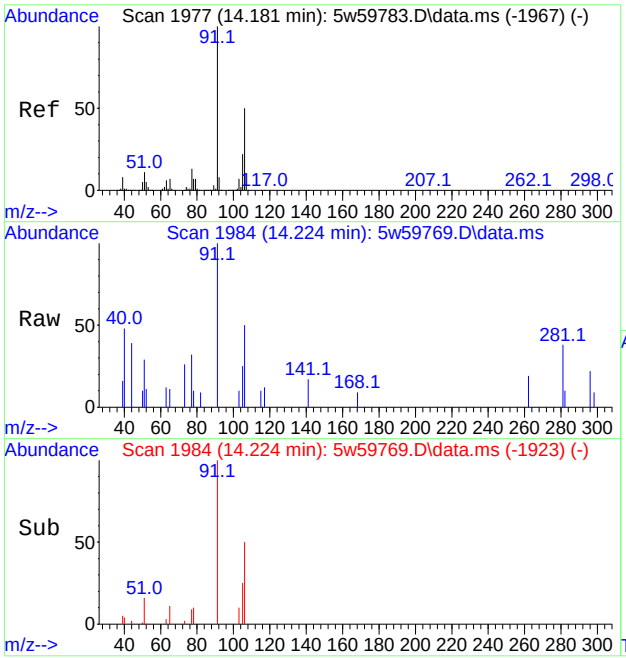


#79
ETHYLBENZENE
Concen: 0.05 PPBV
RT: 14.035 min Scan# 1953
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 9593

Ion	Ratio	Lower	Upper
91	100		
106	24.4	1.3	61.3
77	16.4	0.0	38.6

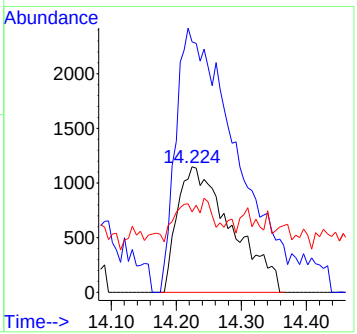


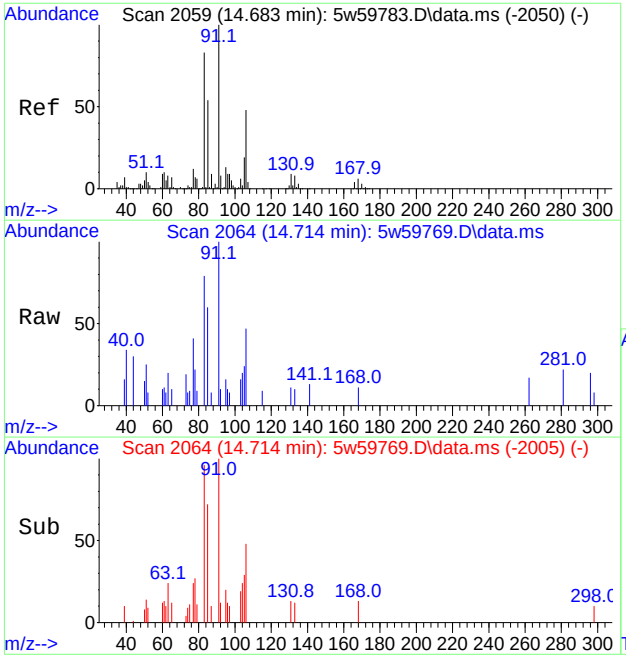


#80
m,p-XYLENE
Concen: 0.08 PPBV
RT: 14.224 min Scan# 1984
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 6608

Ion	Ratio	Lower	Upper
106	100		
91	199.7	171.0	231.0
77	64.2	0.0	56.7#

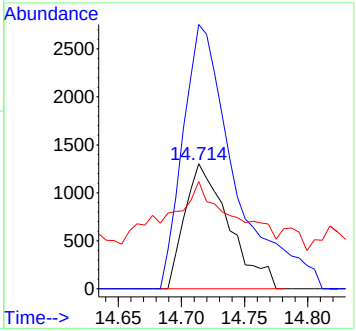


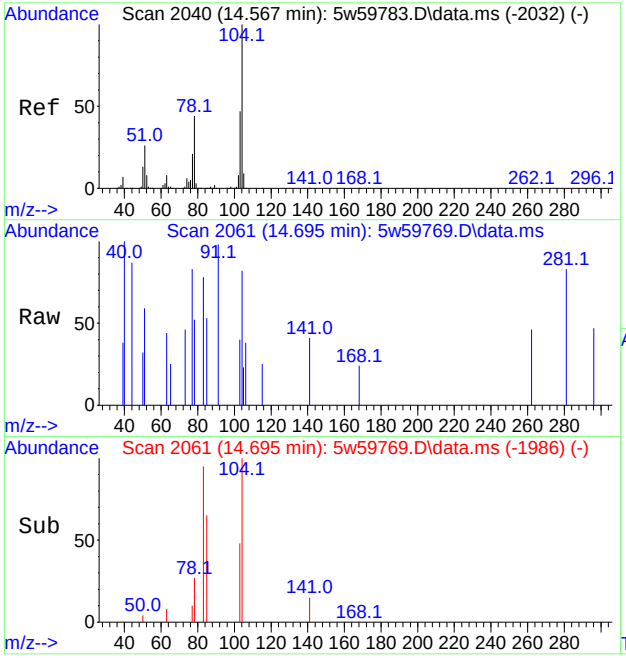


#81
o-XYLENE
Concen: 0.04 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 3154

Ion	Ratio	Lower	Upper
106	100		
91	249.6	181.6	241.6#
77	92.1	0.0	56.6#

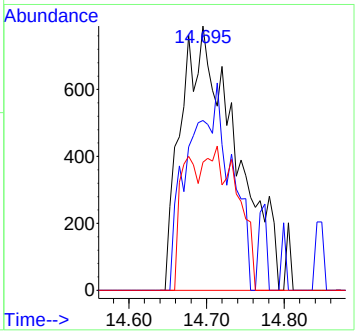


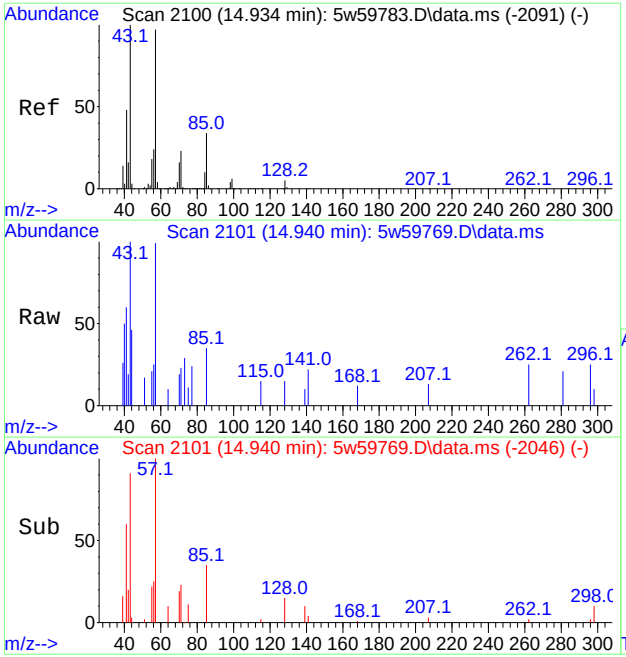


#82
STYRENE
Concen: 0.03 PPBV
RT: 14.695 min Scan# 2061
Delta R.T. 0.128 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:104 Resp: 3881

Ion	Ratio	Lower	Upper
104	100		
78	60.7	13.3	73.3
103	51.1	17.2	77.2

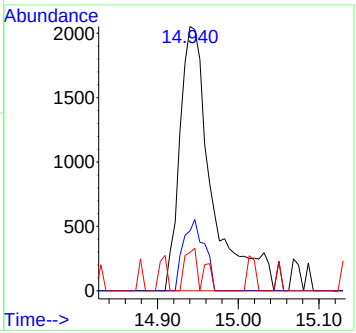


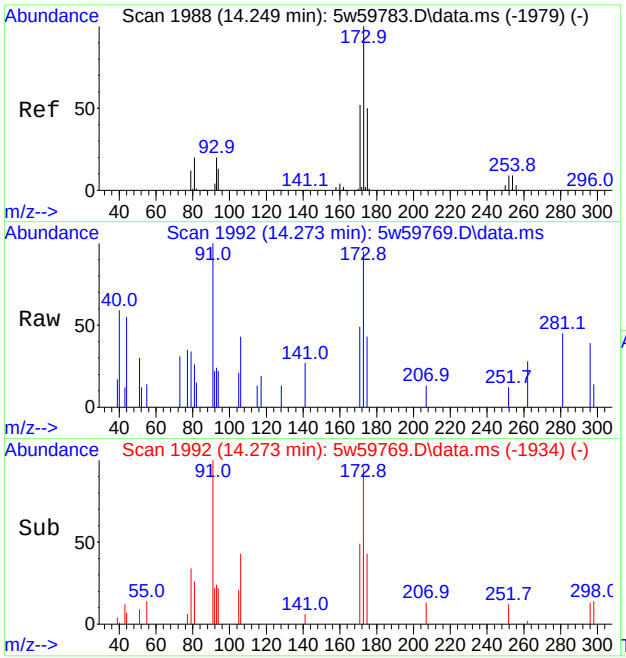


#83
NONANE
Concen: 0.06 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 5771

Ion	Ratio	Lower	Upper
43	100		
71	17.4	0.0	52.7
128	5.8	0.0	34.7

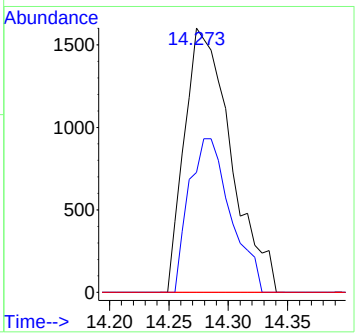


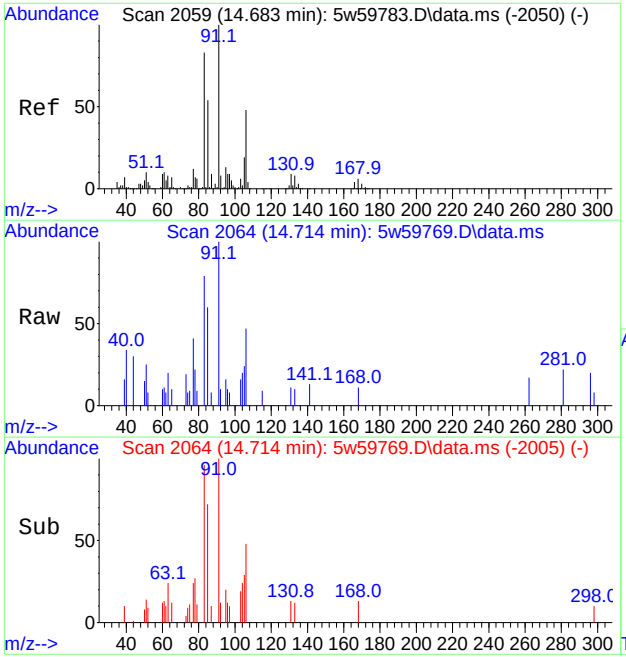


#84
BROMOFORM
Concen: 0.04 PPBV
RT: 14.273 min Scan# 1992
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:173 Resp: 4371

Ion	Ratio	Lower	Upper
173	100		
175	52.0	19.6	79.6
254	0.0	0.0	39.0

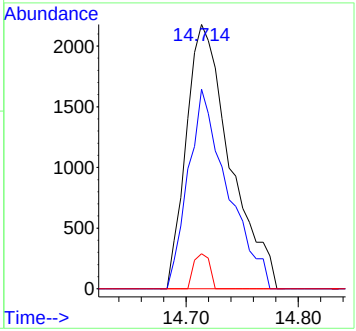


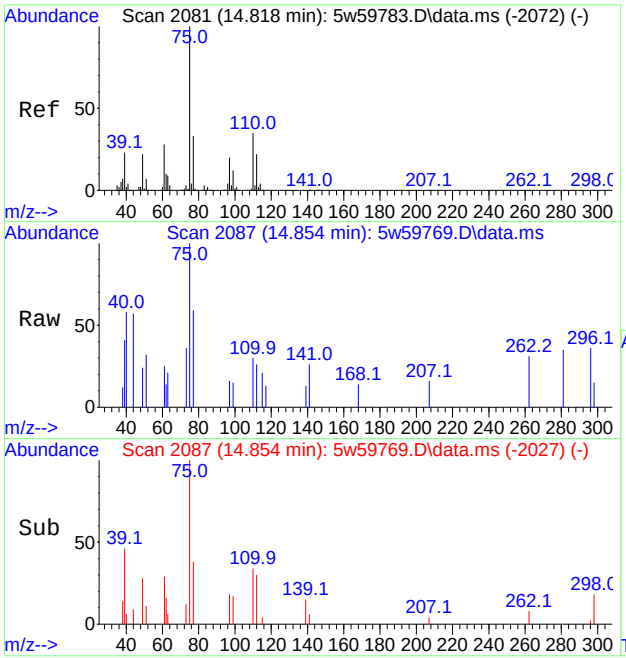


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.05 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 5918

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	4.8	0.0	40.3

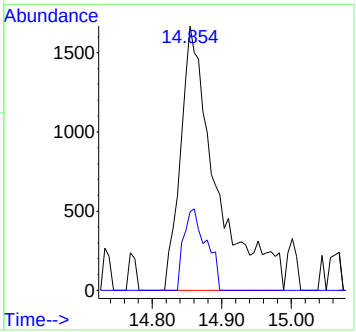


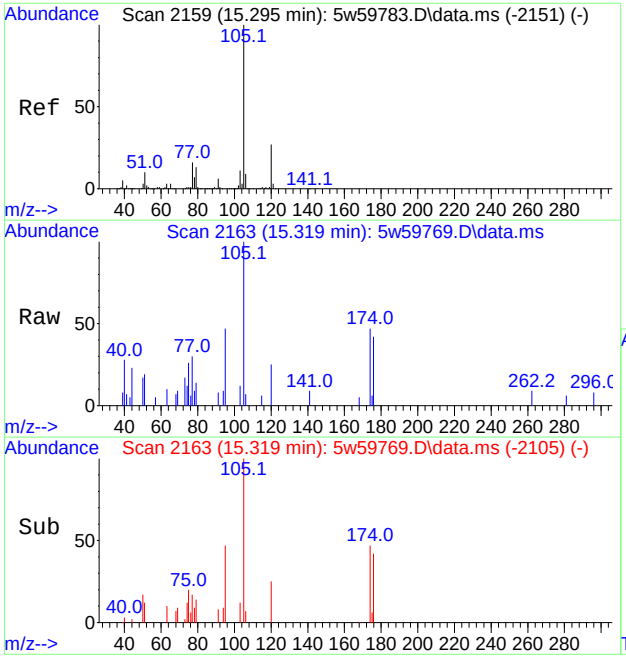


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.06 PPBV
RT: 14.854 min Scan# 2087
Delta R.T. 0.036 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 5967

Ion	Ratio	Lower	Upper
75	100		
110	19.5	4.4	64.4

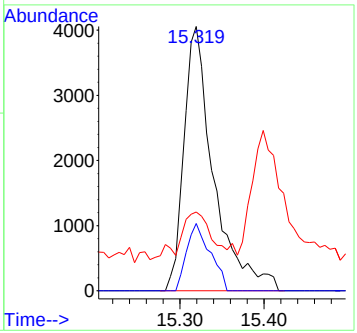


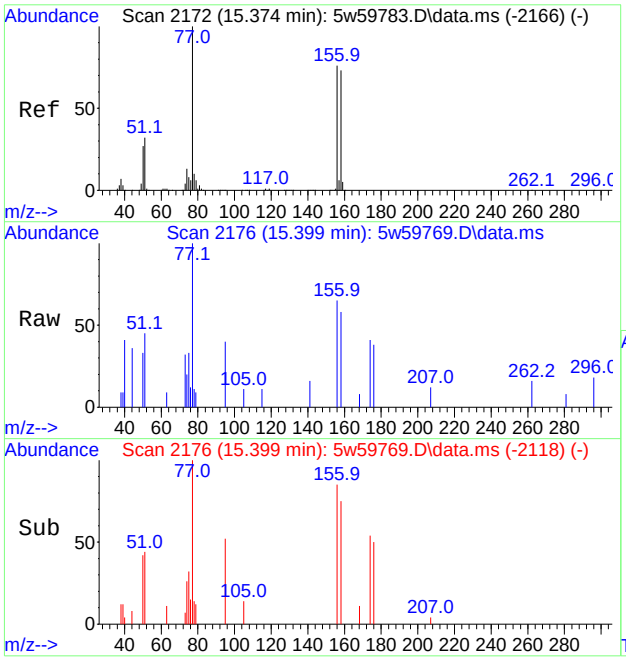


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.319 min Scan# 2163
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9953

Ion	Ratio	Lower	Upper
105	100		
120	20.2	0.0	56.0
77	22.4	0.0	45.6

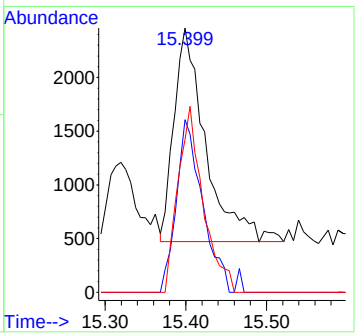


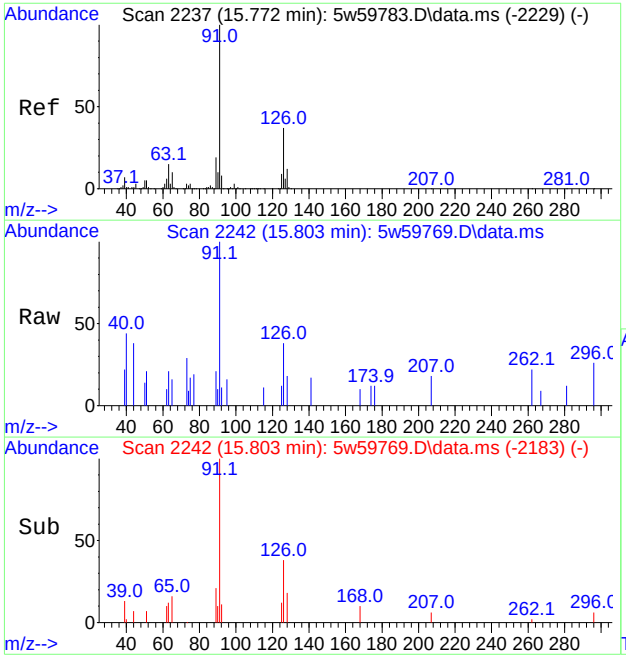


#89
BROMOBENZENE
Concen: 0.05 PPBV
RT: 15.399 min Scan# 2176
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 77 Resp: 5423

Ion	Ratio	Lower	Upper
77	100		
156	66.4	54.9	101.9
158	69.0	53.5	99.3

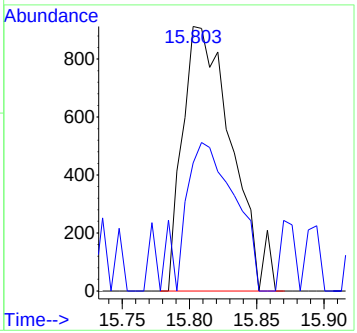


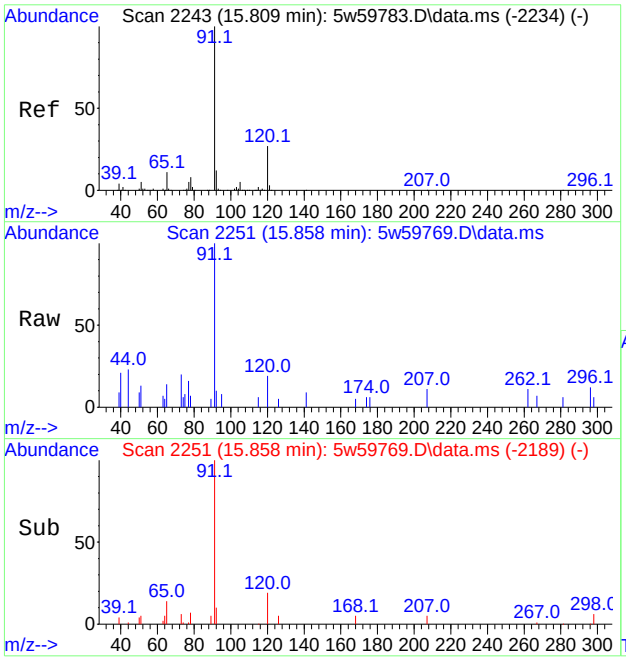


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 15.803 min Scan# 2242
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:126 Resp: 2313

Ion	Ratio	Lower	Upper
126	100		
128	53.8	2.7	62.7

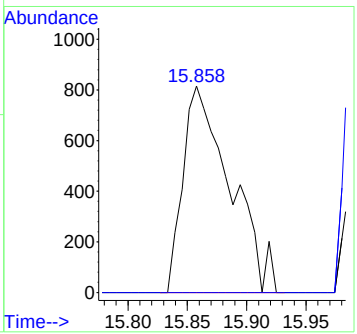


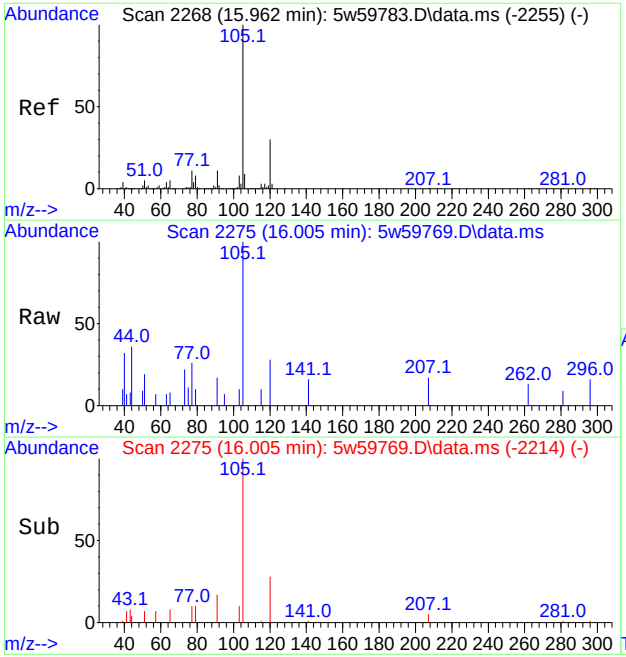


#91
n-PROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.858 min Scan# 2251
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:120 Resp: 2252

Ion	Ratio	Lower	Upper
120	100		
105	0.0	0.0	47.0

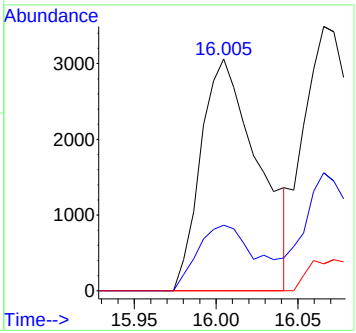


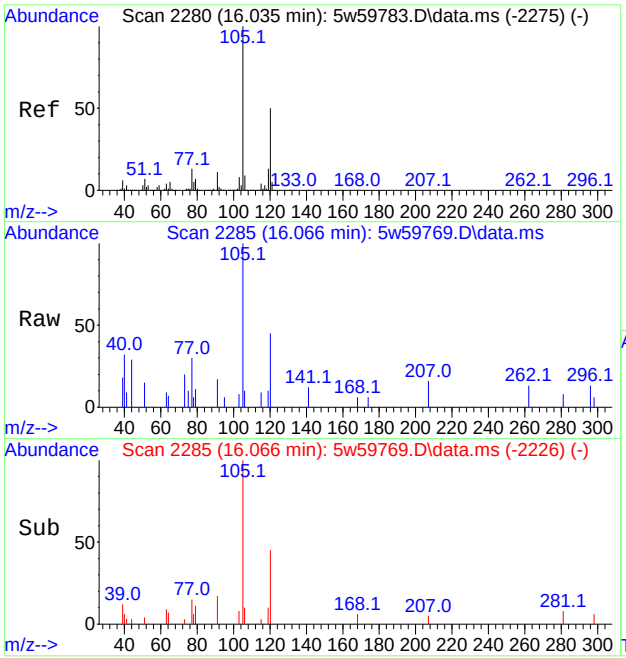


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV m
RT: 16.005 min Scan# 2275
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 7489

Ion	Ratio	Lower	Upper
105	100		
120	55.0	0.0	59.9
119	12.2	0.0	32.3

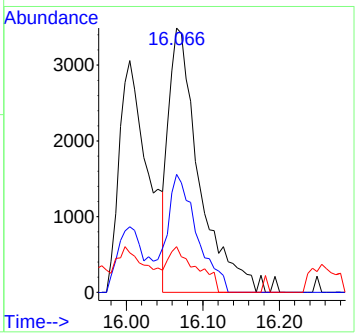


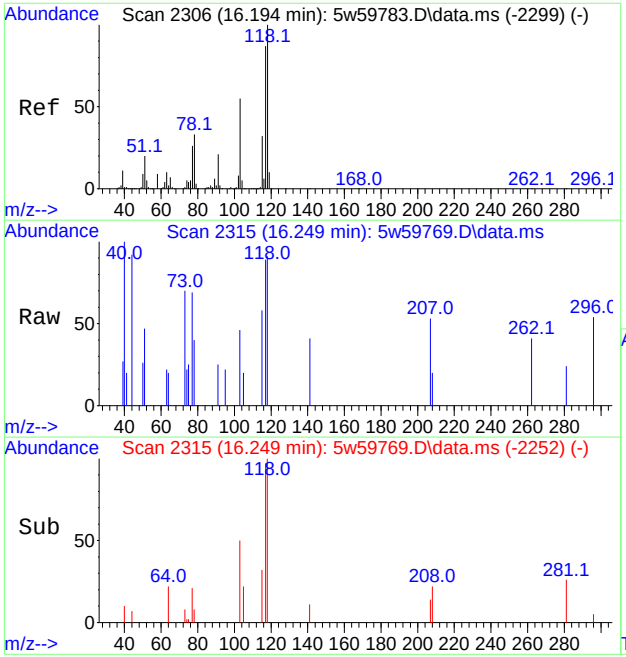


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.05 PPBV m
RT: 16.066 min Scan# 2285
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9751

Ion	Ratio	Lower	Upper
105	100		
120	23.3	19.4	79.4
91	17.0	0.0	40.8

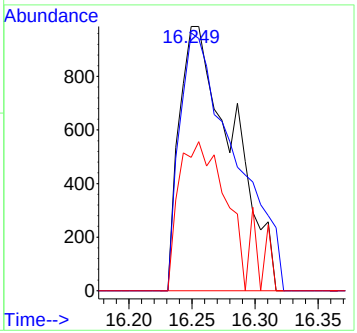


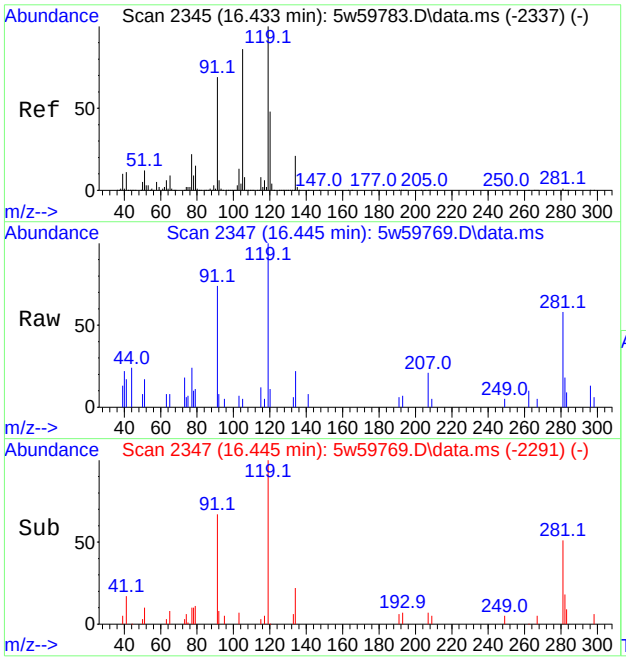


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.249 min Scan# 2315
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:118 Resp: 2895

Ion	Ratio	Lower	Upper
118	100		
117	100.8	60.9	113.1
103	48.7	38.6	71.8

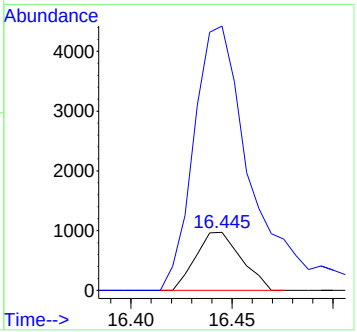


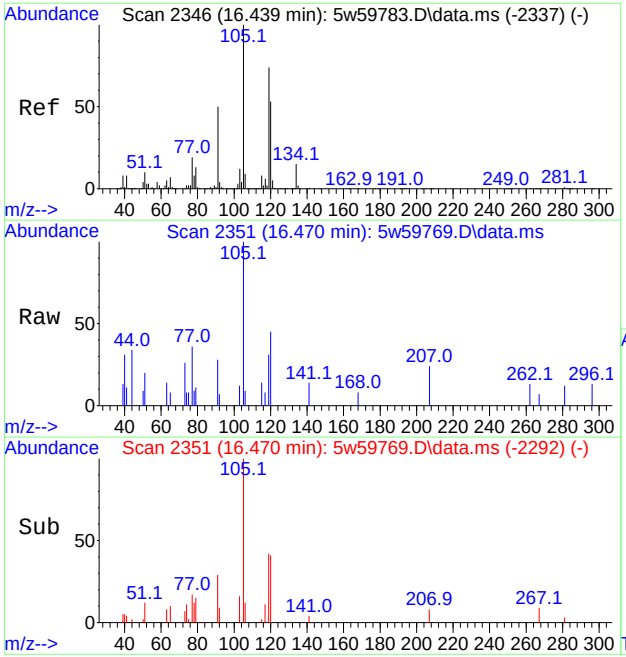


#95
tert-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1525

Ion	Ratio	Lower	Upper
134	100		
119	590.2	459.3	519.3#

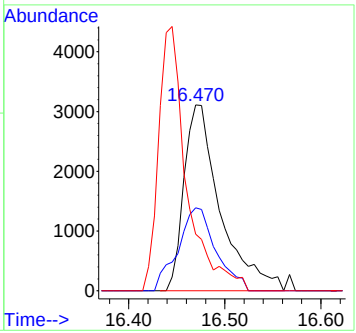


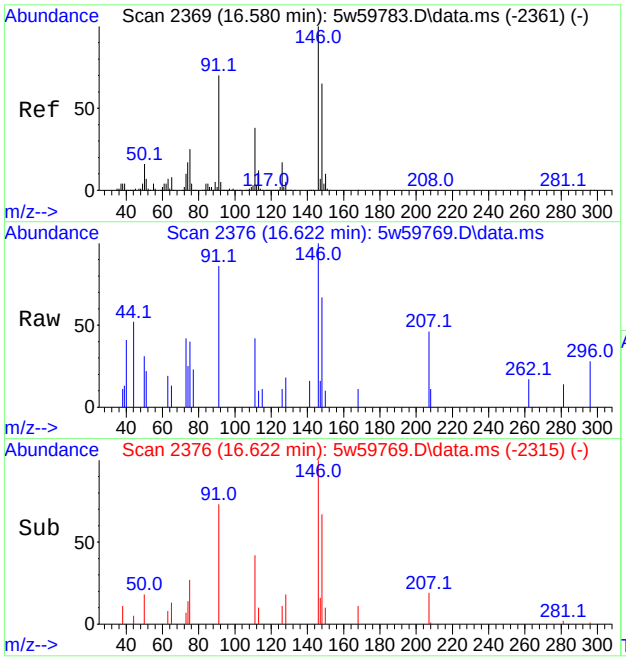


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.05 PPBV
RT: 16.470 min Scan# 2351
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8180

Ion	Ratio	Lower	Upper
105	100		
120	46.7	25.7	85.7
119	0.0	75.7	135.7#

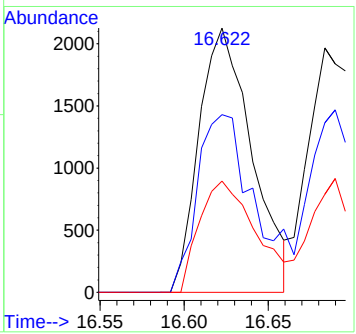


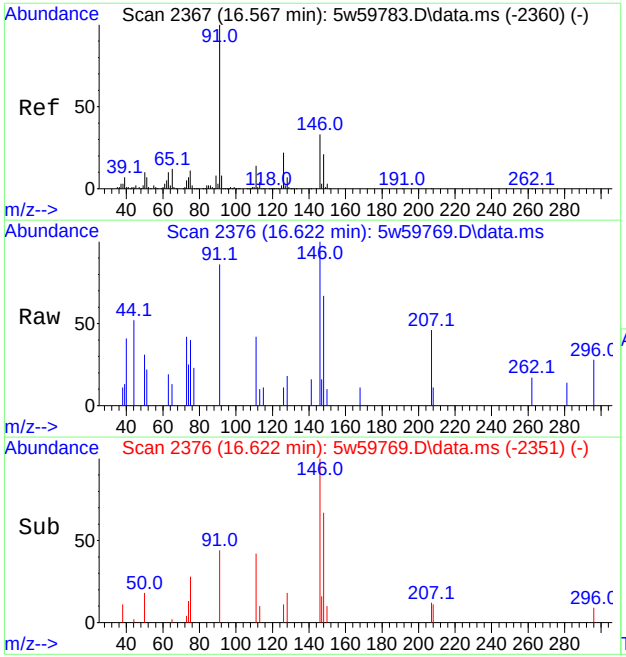


#97
m-DICHLOROBENZENE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.042 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 4669

Ion	Ratio	Lower	Upper
146	100		
148	73.3	34.8	94.8
111	44.7	8.2	68.2

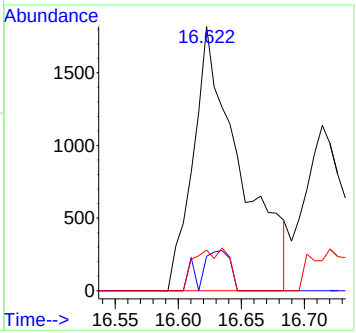


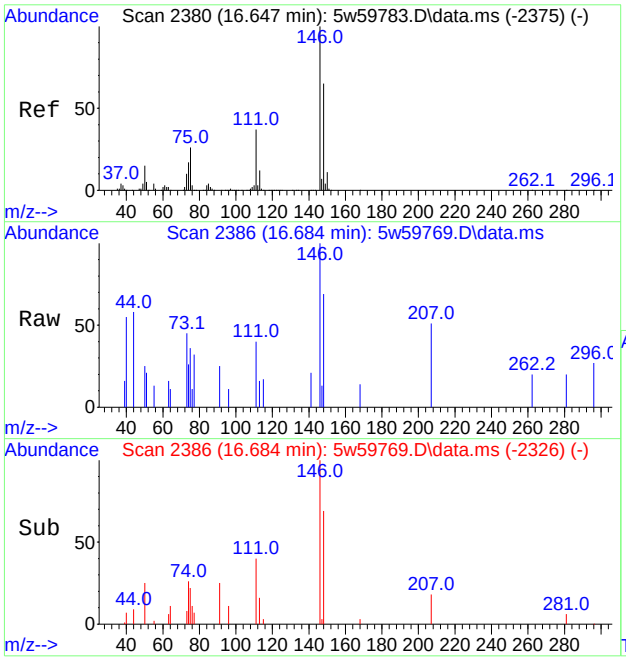


#98
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 4703

Ion	Ratio	Lower	Upper
91	100		
126	9.6	0.0	51.7
65	11.6	0.0	42.2

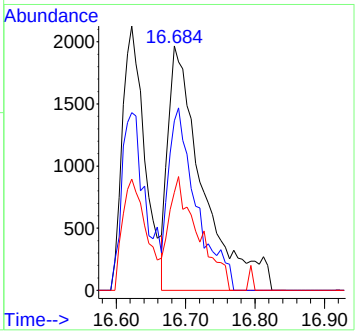


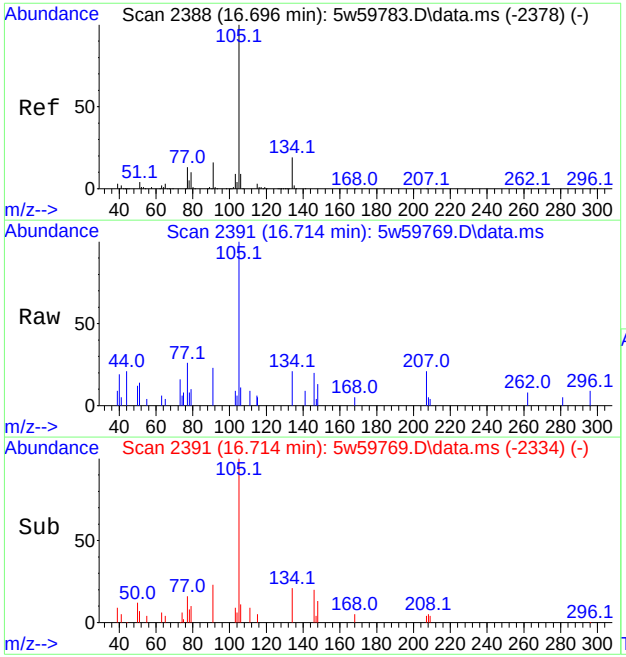


#99
p-DICHLOROBENZENE
Concen: 0.05 PPBV m
RT: 16.684 min Scan# 2386
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 6829

Ion	Ratio	Lower	Upper
146	100		
148	50.1	34.6	94.6
111	30.5	6.7	66.7

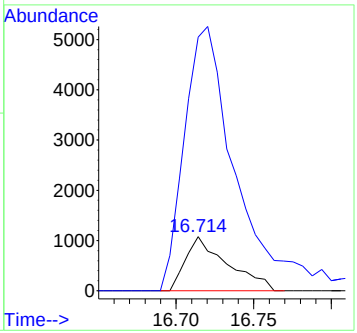


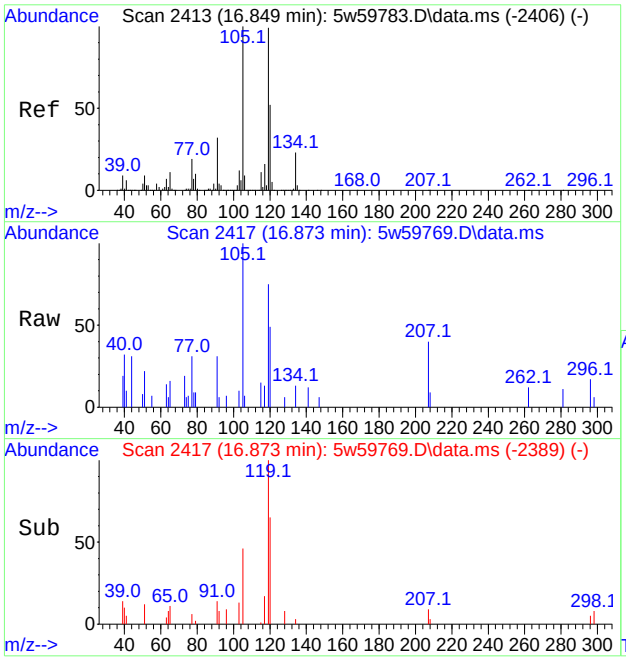


#100
sec-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.714 min Scan# 2391
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2023

Ion	Ratio	Lower	Upper
134	100		
105	613.6	502.5	562.5#

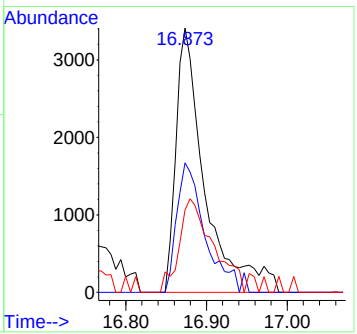


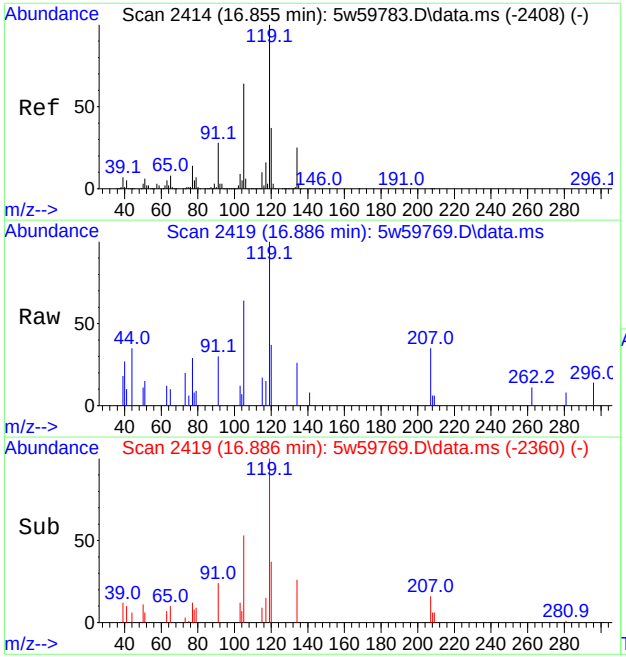


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.873 min Scan# 2417
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8480

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	41.5	7.4	67.4

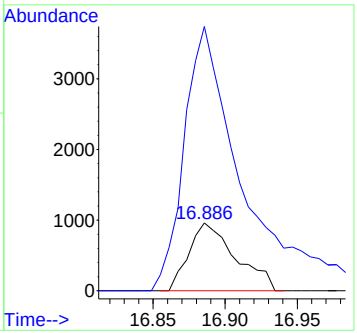


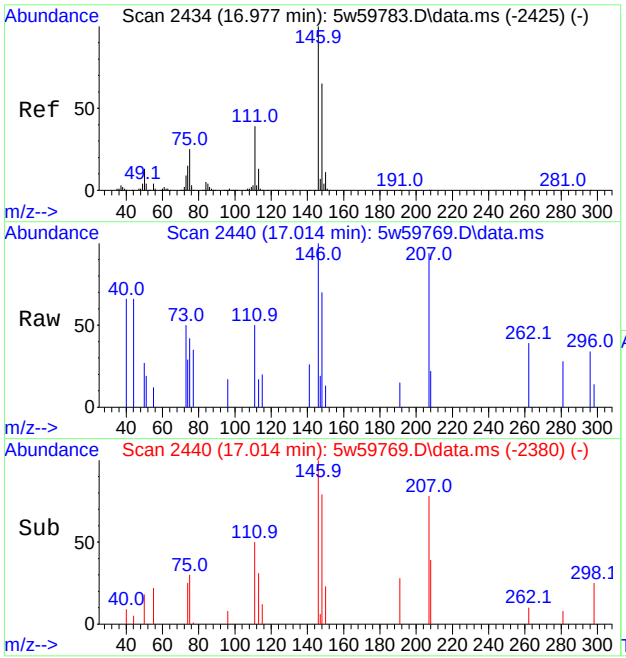


#102
p-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 16.886 min Scan# 2419
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2164

Ion	Ratio	Lower	Upper
134	100		
119	504.7	377.7	437.7#

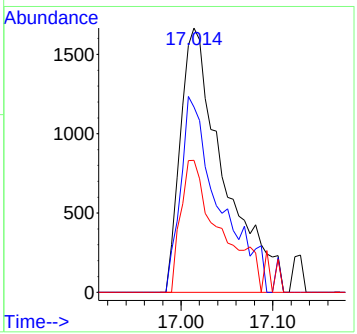


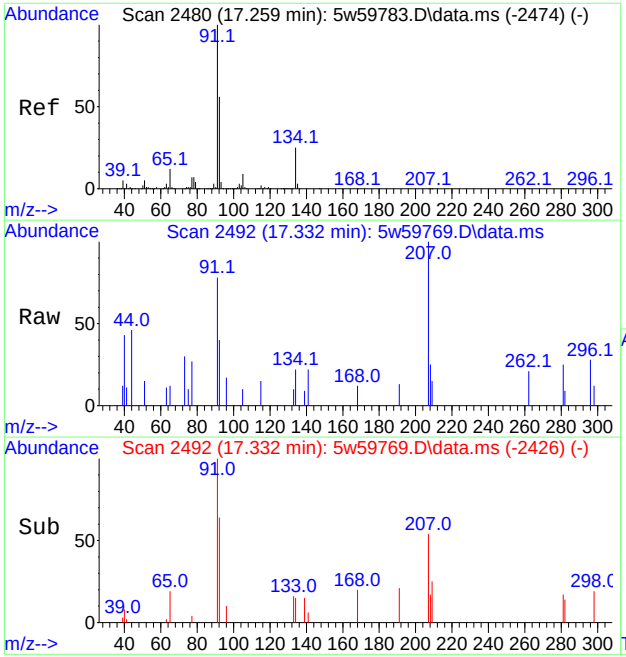


#103
o-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 17.014 min Scan# 2440
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 5480

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.3	94.3
111	45.3	9.2	69.2

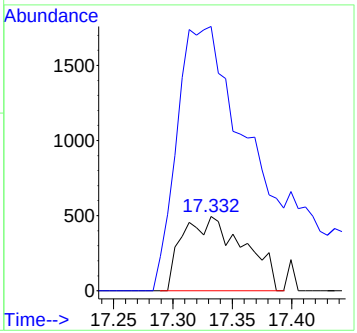


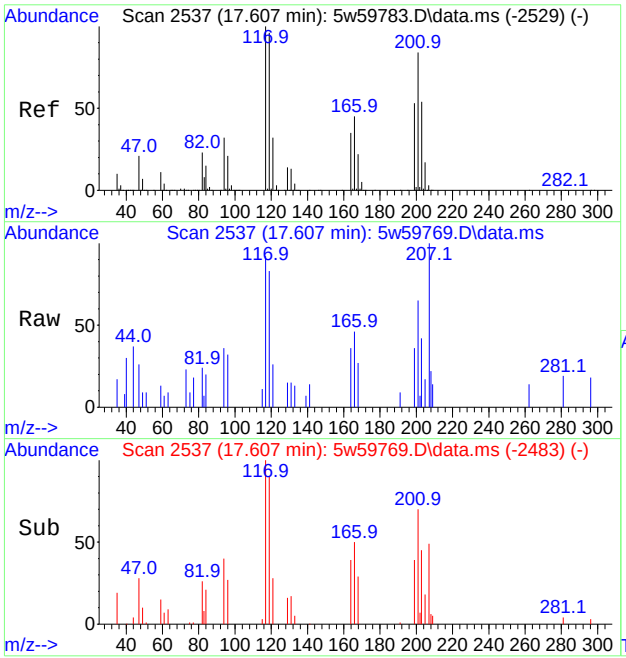


#104
n-BUTYLBENZENE
Concen: 0.03 PPBV
RT: 17.332 min Scan# 2492
Delta R.T. 0.073 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1780

Ion	Ratio	Lower	Upper
134	100		
91	517.0	363.1	423.1#

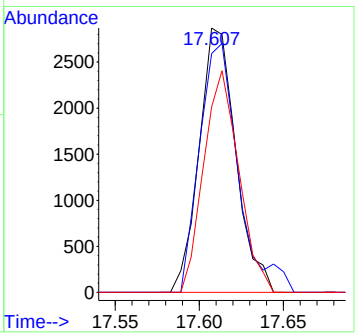


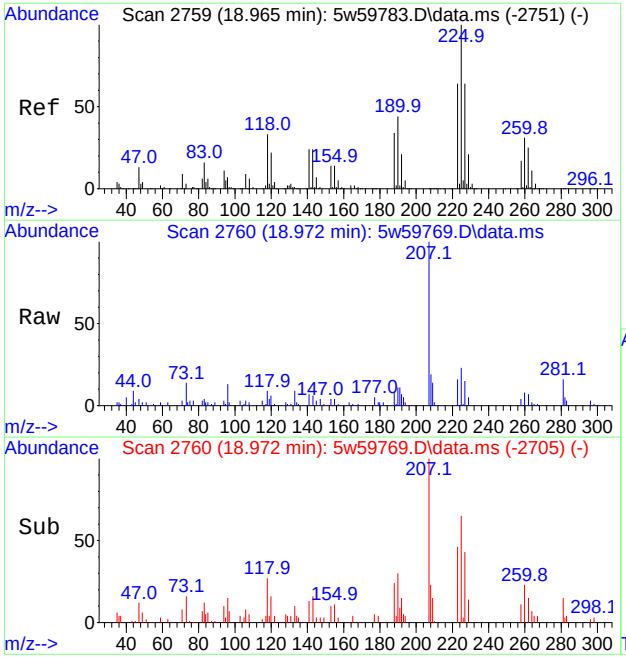


#105
HEXACHLOROETHANE
Concen: 0.05 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4357

Ion	Ratio	Lower	Upper
117	100		
119	99.3	67.2	124.8
201	80.2	61.1	113.5

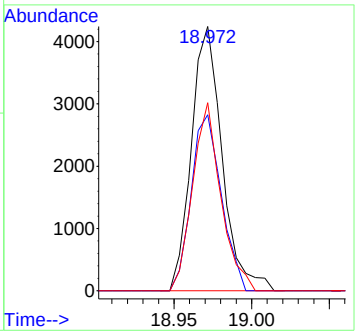


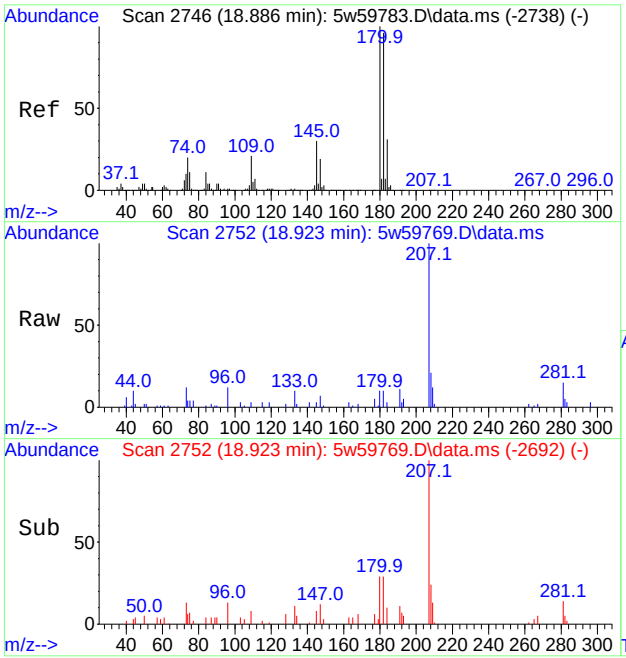


#106
HEXACHLOROBUTADIENE
Concen: 0.05 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:225 Resp: 5840

Ion	Ratio	Lower	Upper
225	100		
227	65.1	34.2	94.2
223	65.4	33.3	93.3

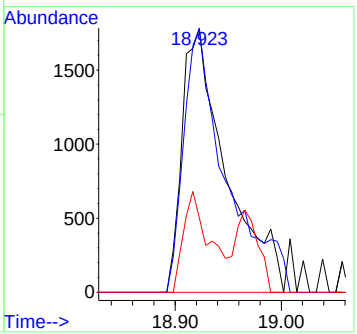


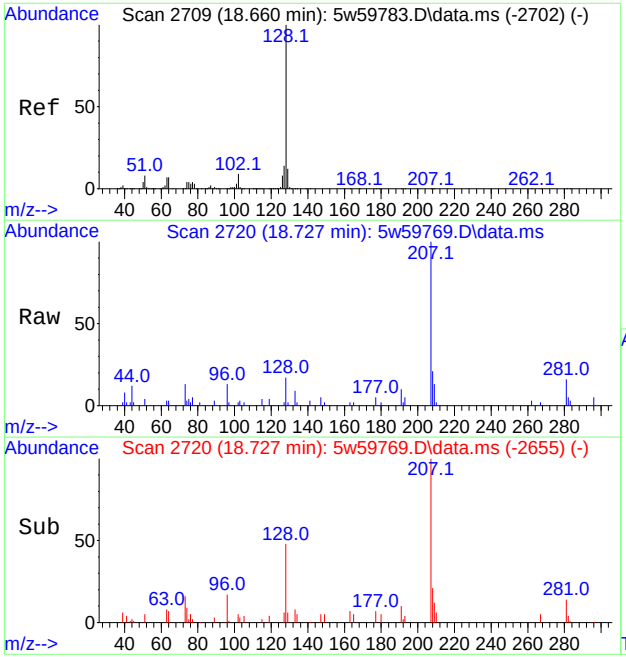


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.04 PPBV
RT: 18.923 min Scan# 2752
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:180 Resp: 5141

Ion	Ratio	Lower	Upper
180	100		
182	97.1	65.4	125.4
145	22.6	0.0	59.4

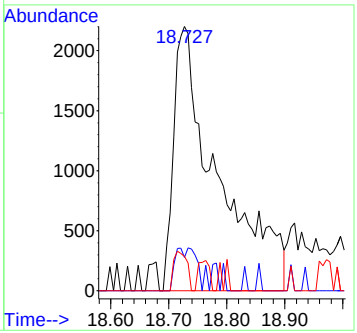


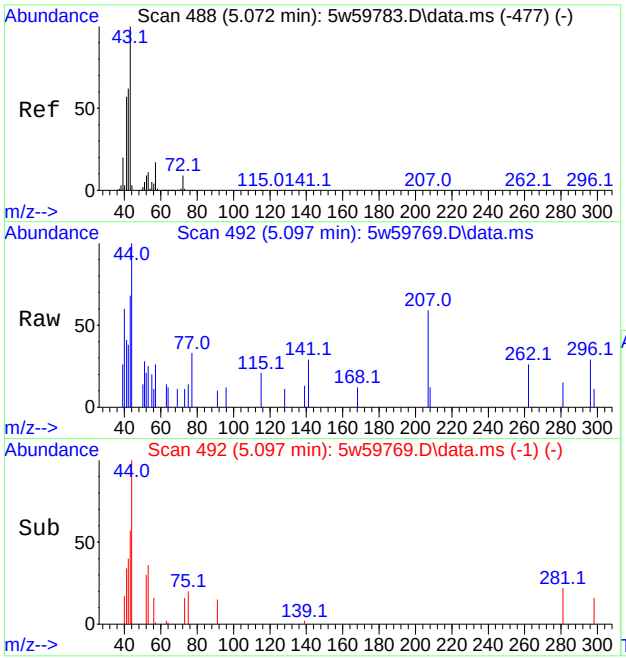


#108
NAPHTHALENE
Concen: 0.04 PPBV m
RT: 18.727 min Scan# 2720
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:128 Resp: 11614

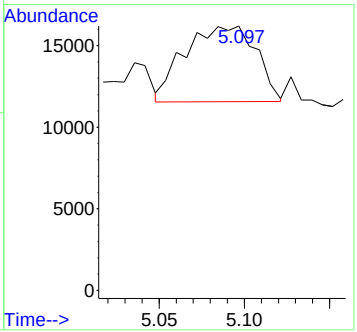
Ion	Ratio	Lower	Upper
128	100		
127	7.7	0.0	43.3
129	4.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.05 PPBV m
RT: 5.097 min Scan# 492
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:TIC Resp: 13430



Manual Integration Approval Summary

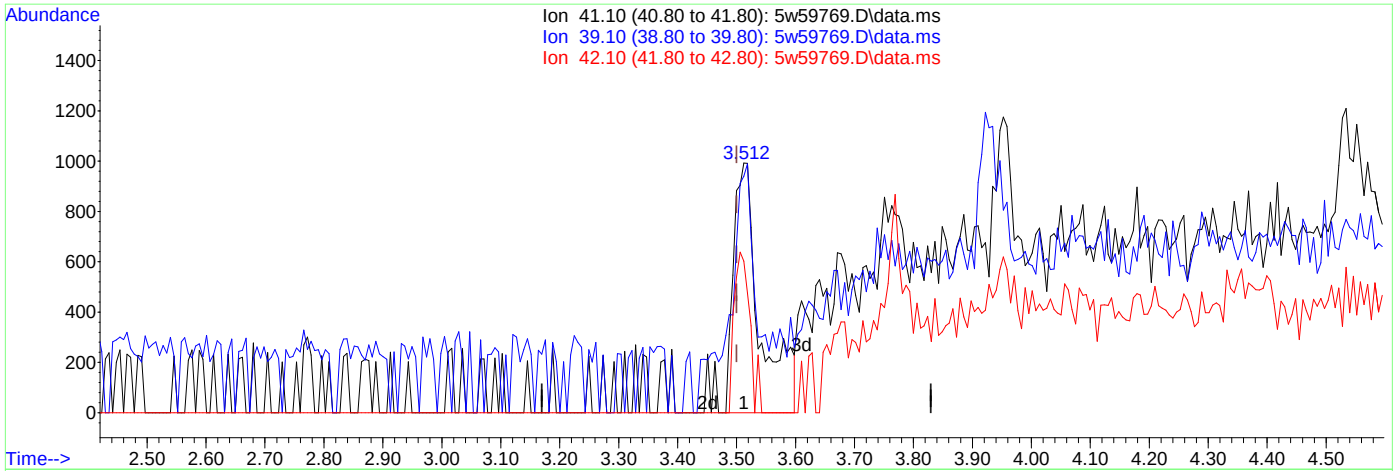
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59769.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/06/25 22:35 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

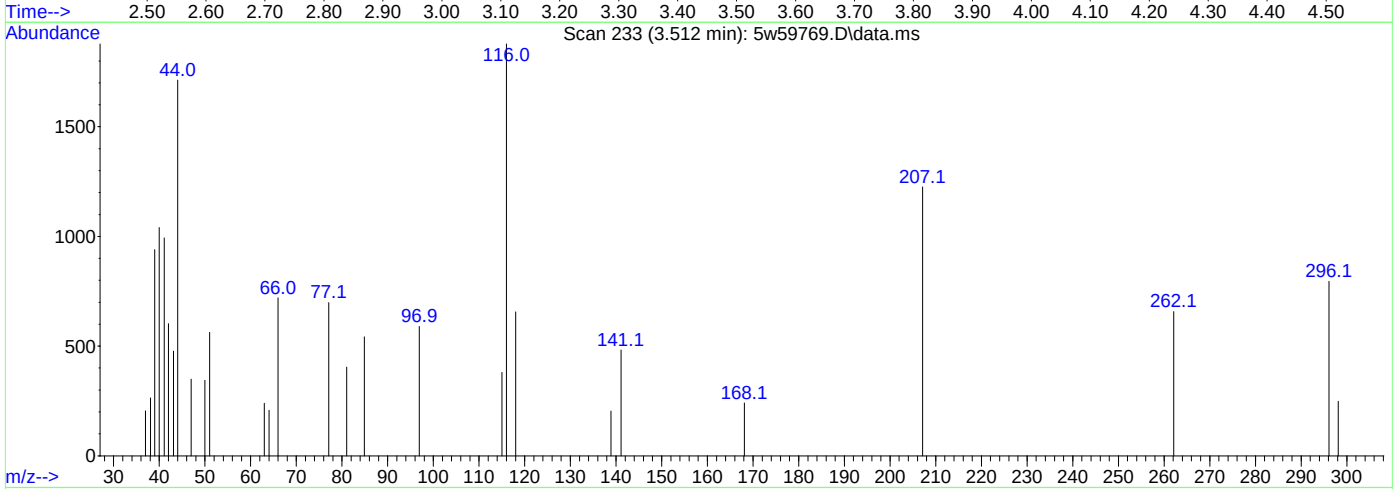
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propylene	115-07-1		3.51	Poor instrument integration
Freon 142B	75-68-3		3.65	Poor instrument integration
n-Butane	106-97-8		3.95	Poor instrument integration
Chloroethane	75-00-3		4.23	Poor instrument integration
Acrolein	107-02-8		4.62	Poor instrument integration
Isopropyl Alcohol	67-63-0		4.94	Poor instrument integration
TVHC As Equiv Pentane			5.10	Missed peak
trans-1,2-Dichloroethylene	156-60-5		6.25	Poor instrument integration
1,2-Dichloropropane	78-87-5		9.67	Poor instrument integration
Octane	111-65-9		12.77	Poor instrument integration
4-Ethyltoluene	622-96-8		16.00	Missed peak
1,3,5-Trimethylbenzene	108-67-8		16.07	Missed peak
p-Dichlorobenzene	106-46-7		16.68	Missed peak
Naphthalene	91-20-3		18.73	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.09PPBV

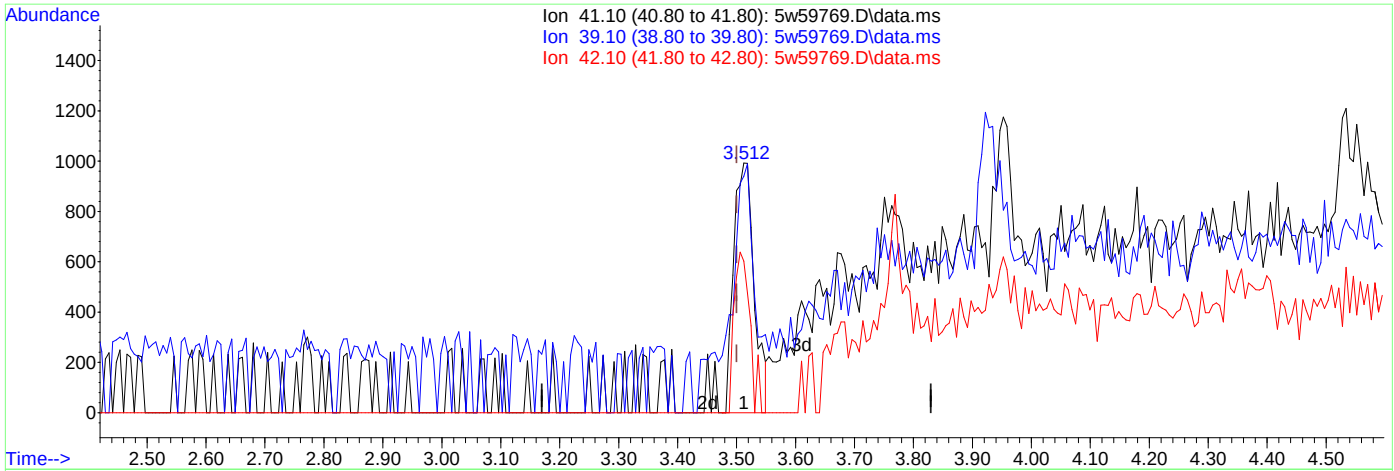
response 3070

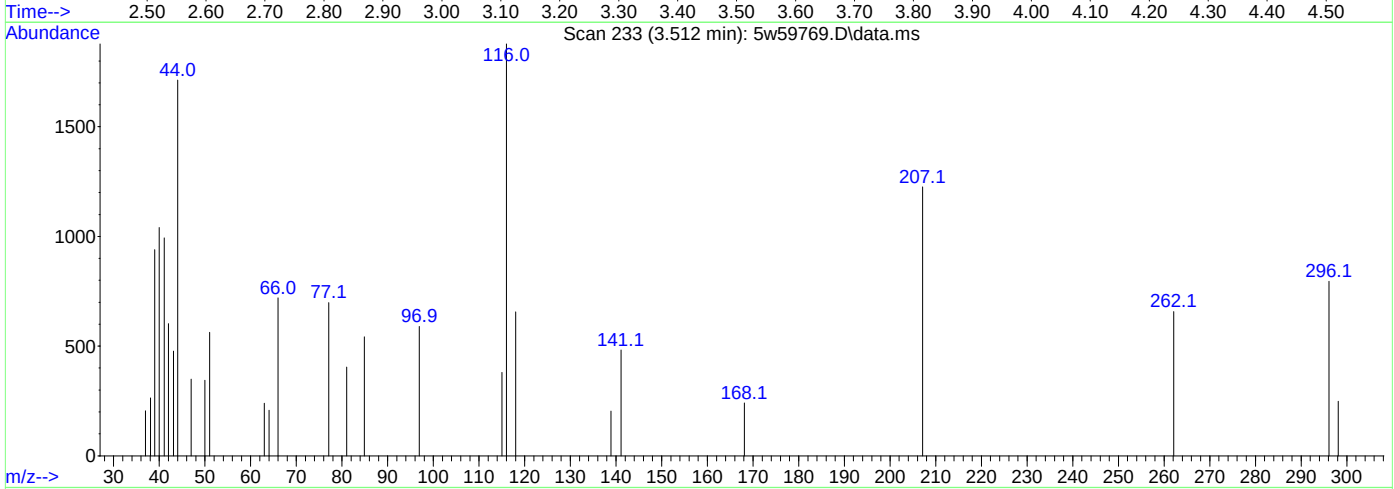
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	183.94#
42.10	66.30	38.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.07PPBV m

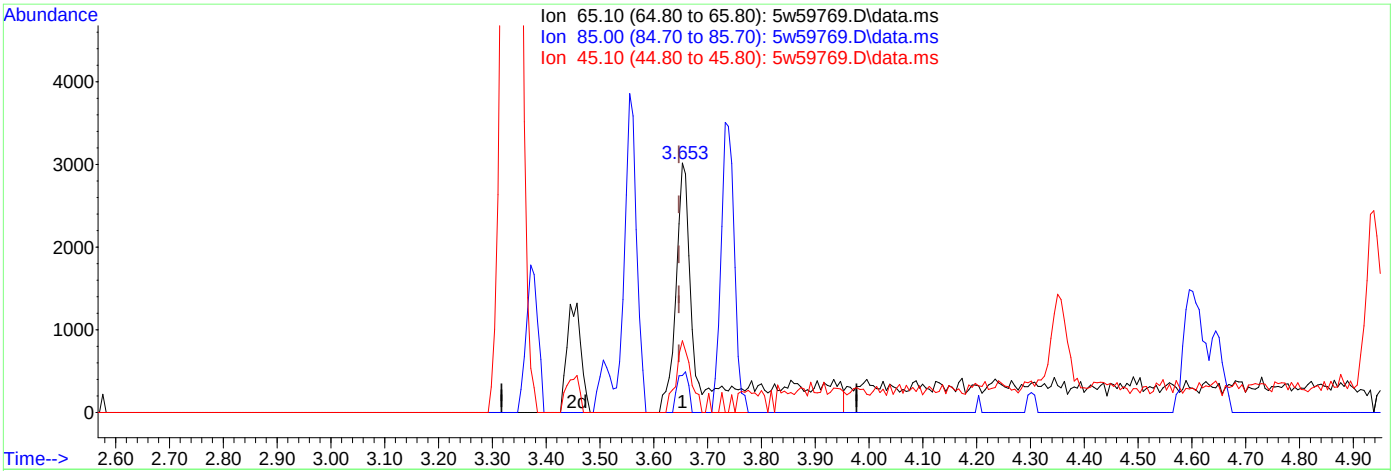
response 2388

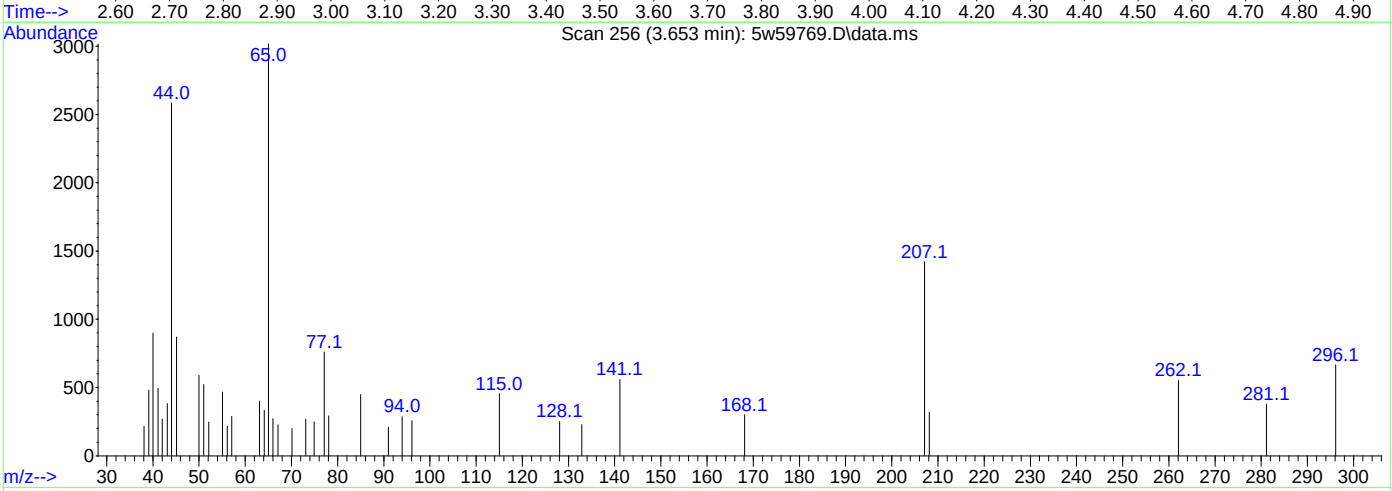
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	236.47#
42.10	66.30	49.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.10PPBV

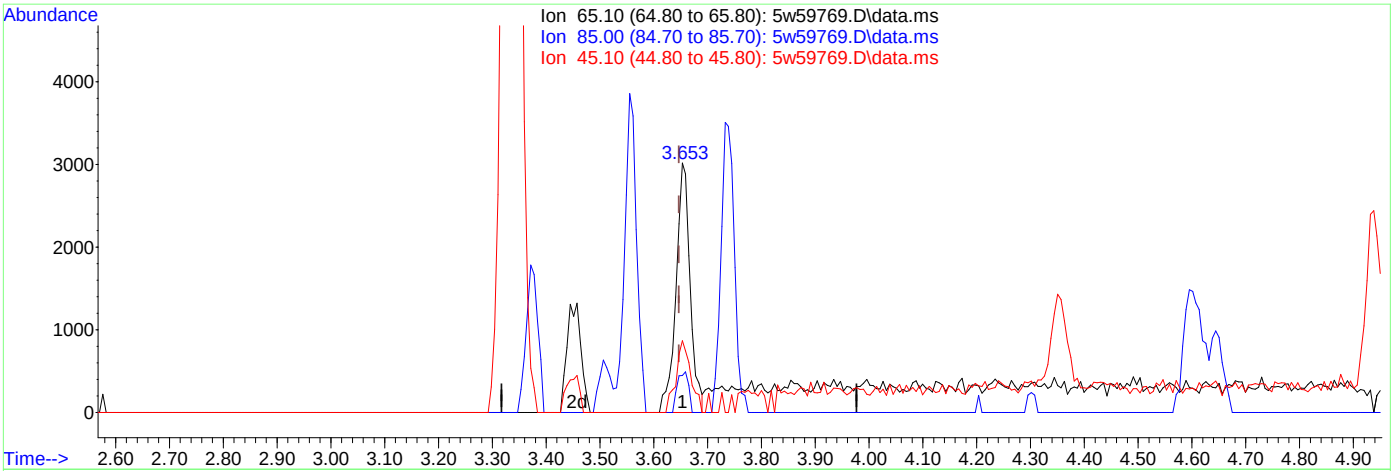
response 10348

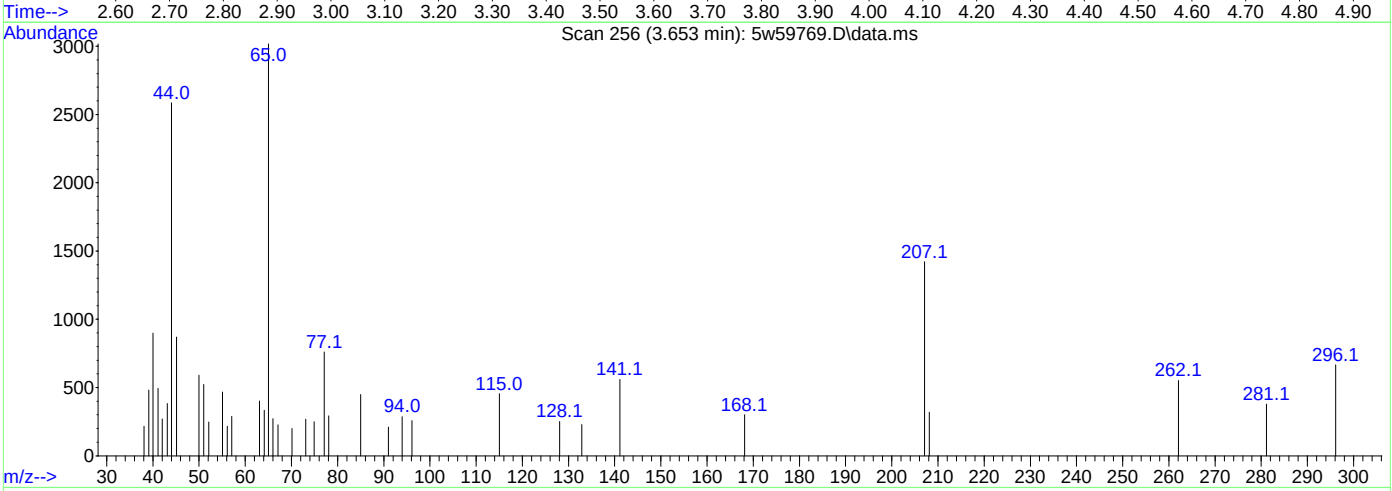
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	6.94#
45.10	20.00	16.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.05PPBV m

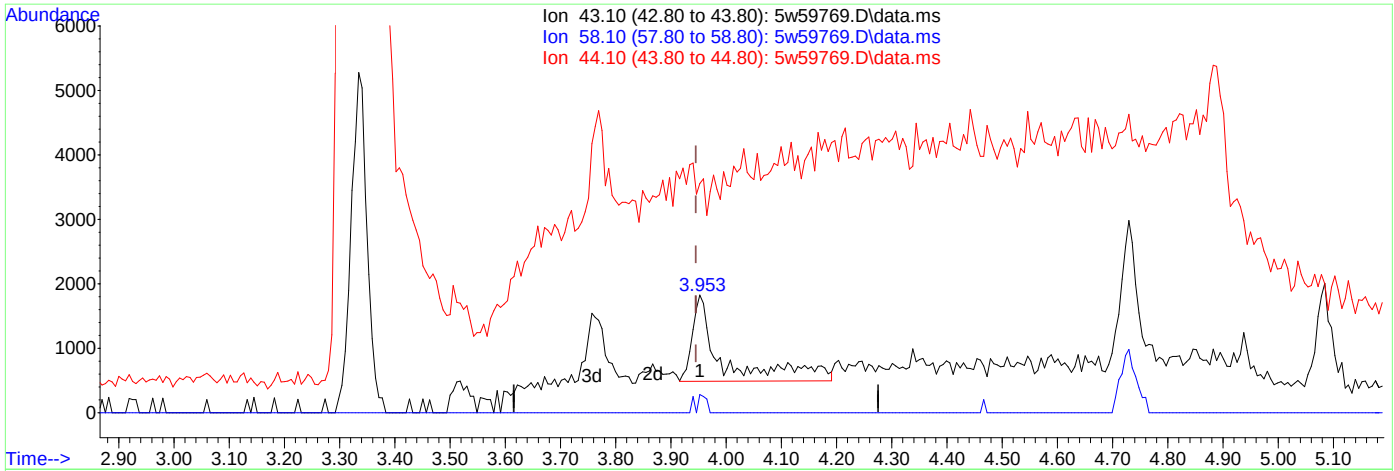
response 5550

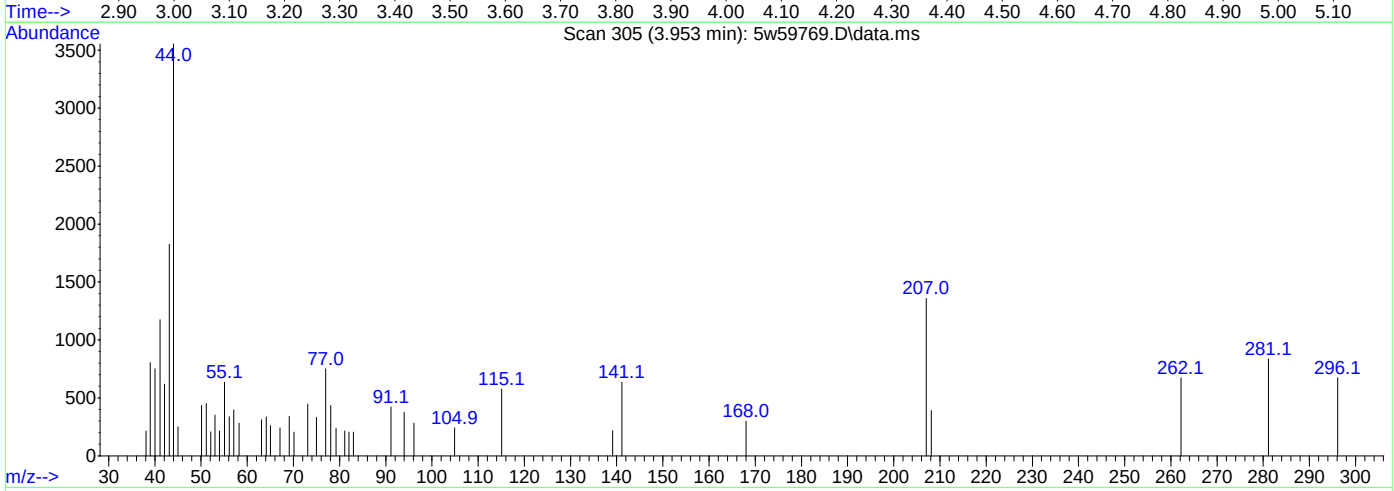
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	12.94
45.10	20.00	29.96#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.12PPBV

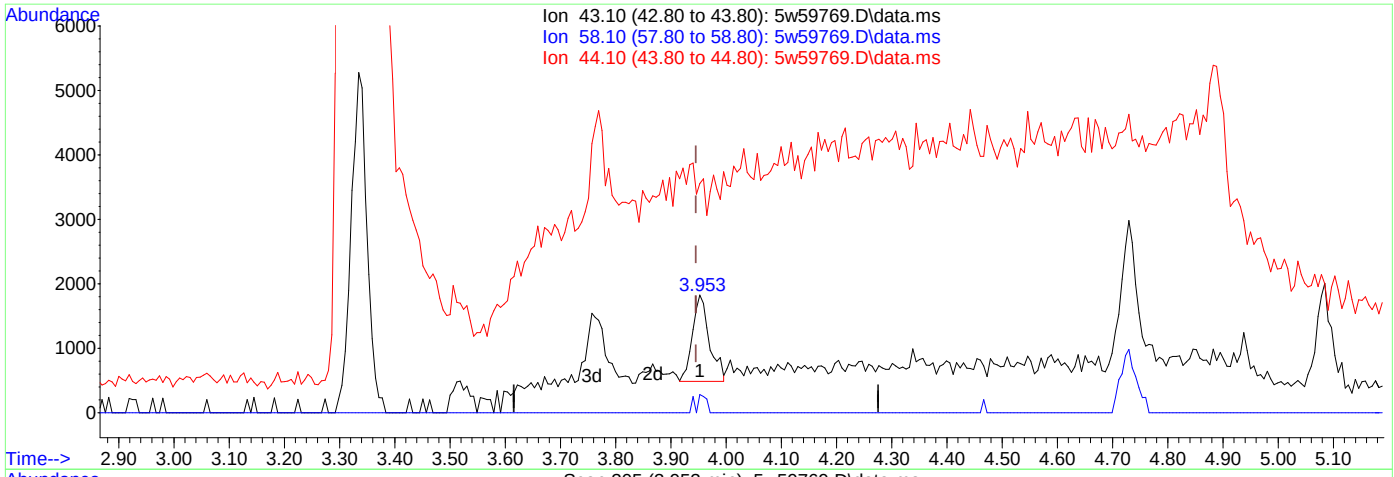
response 5032

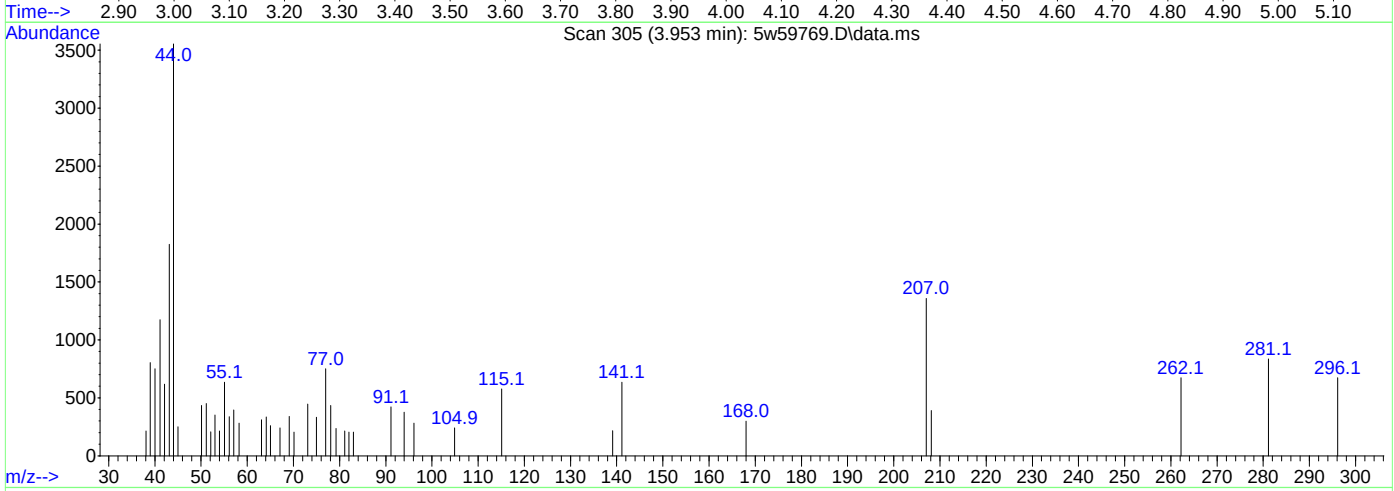
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	7.21
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.07PPBV m

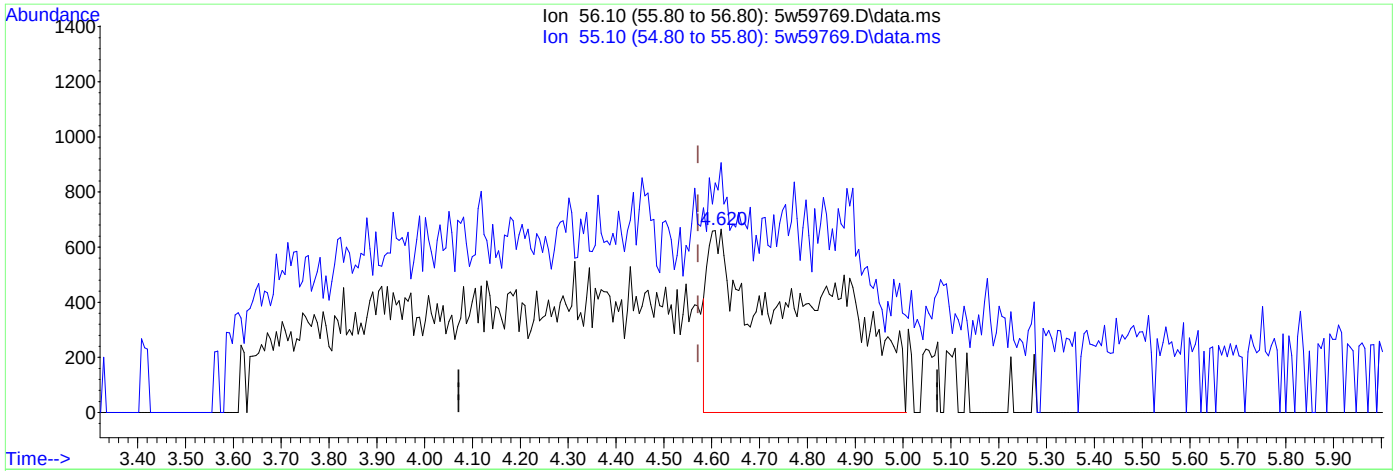
response 2825

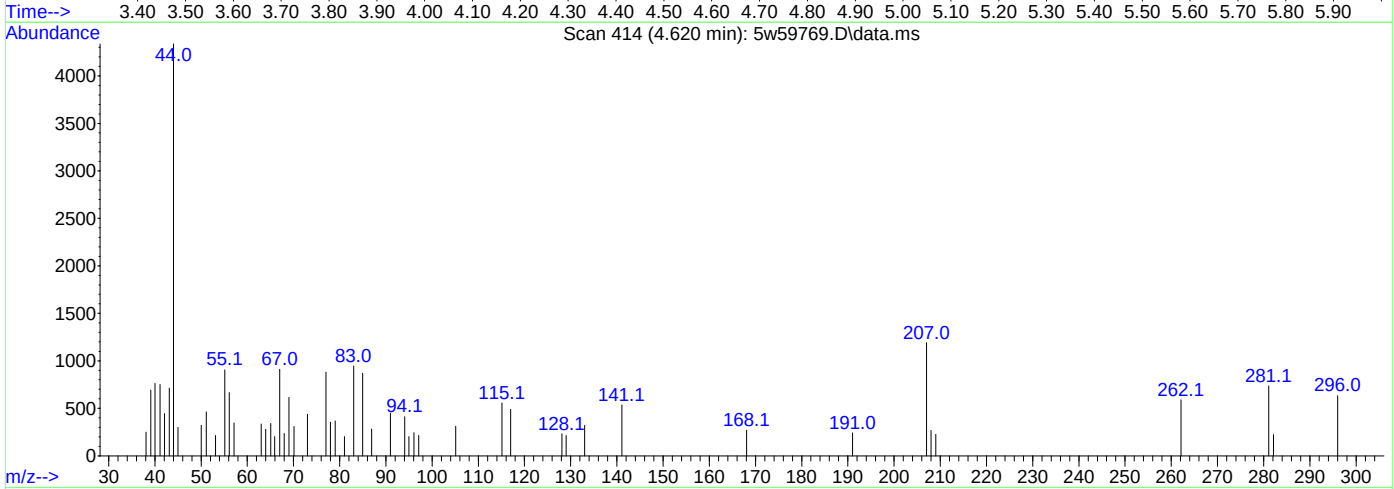
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	12.85
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.69PPBV

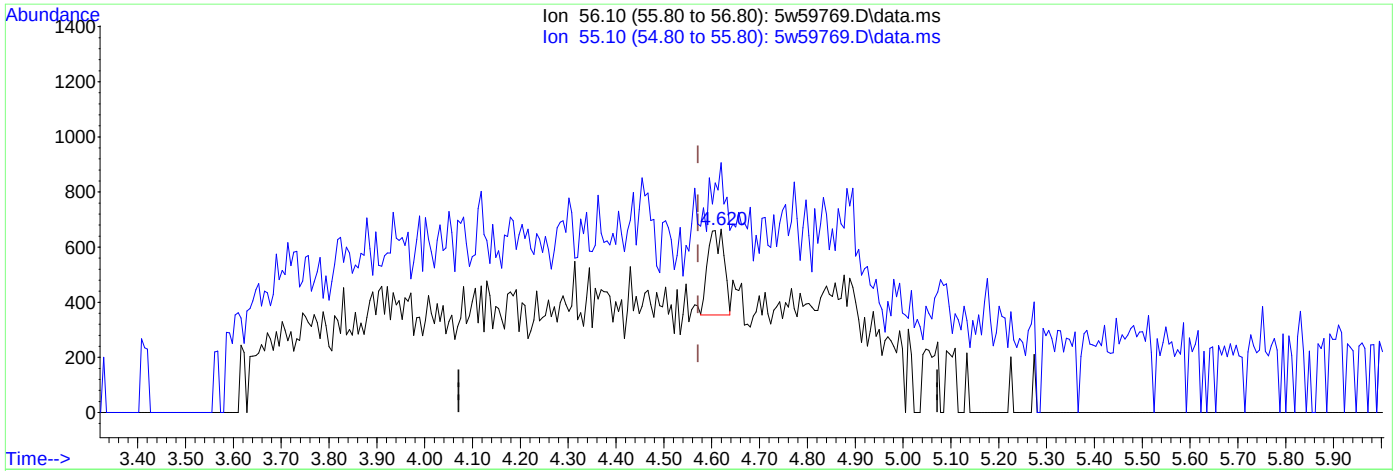
response 9827

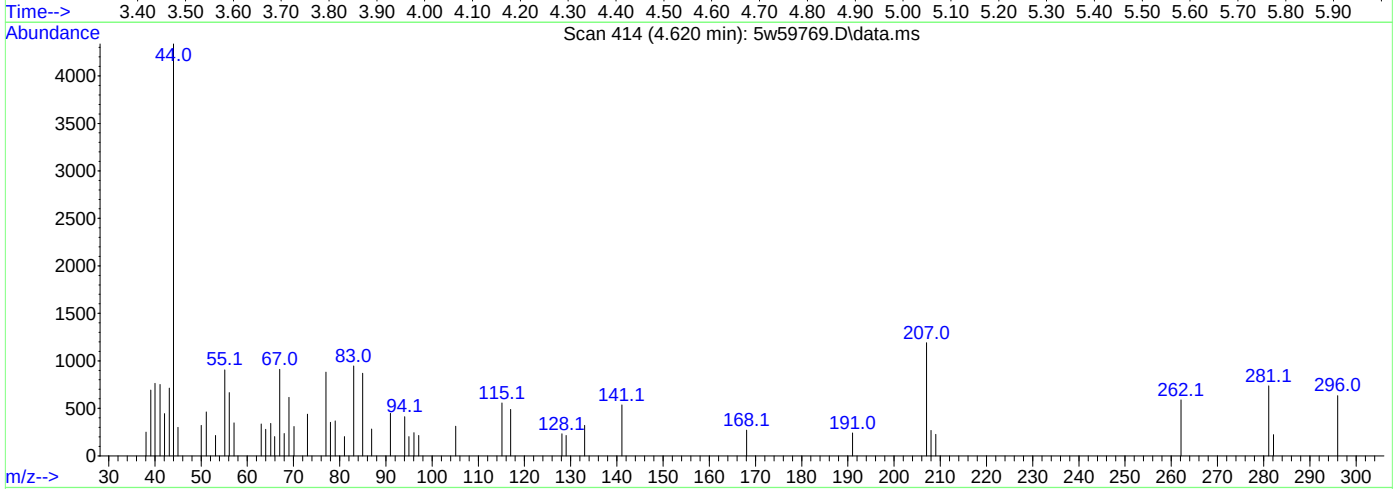
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	29.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.05PPBV m

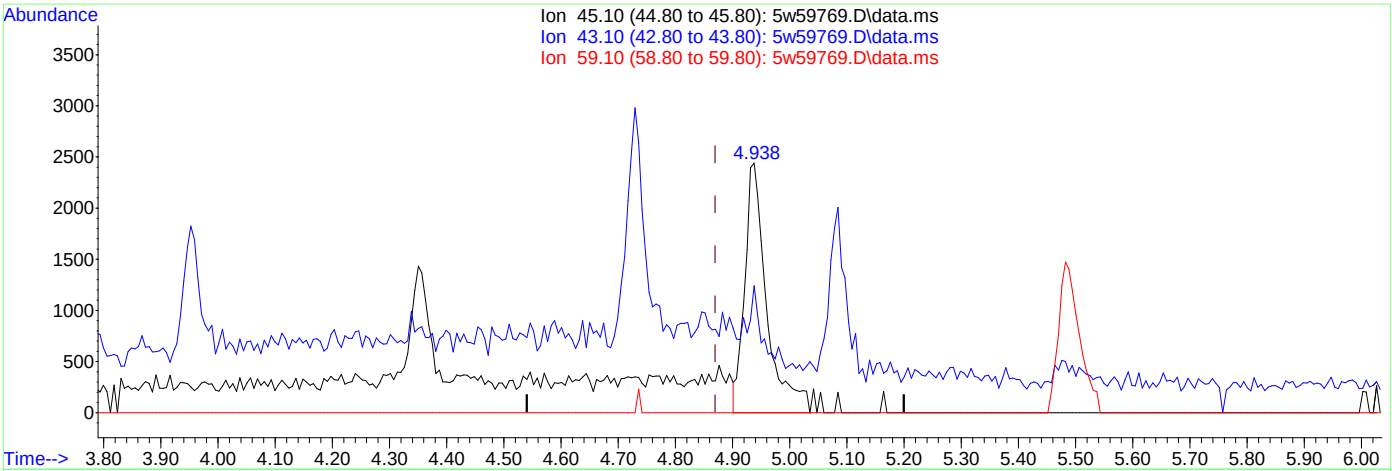
response 728

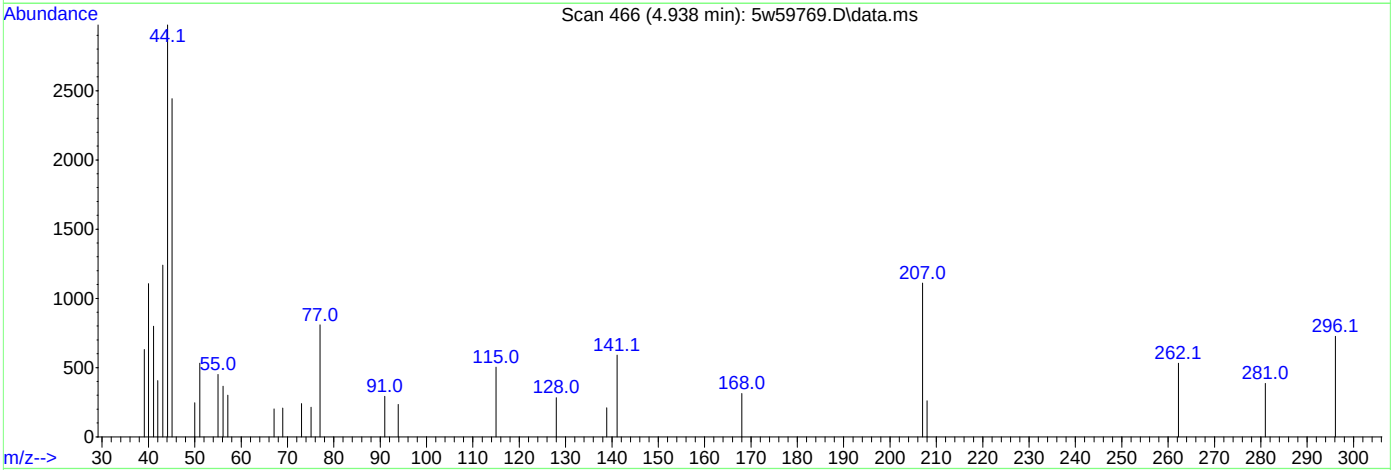
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	401.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.07PPBV

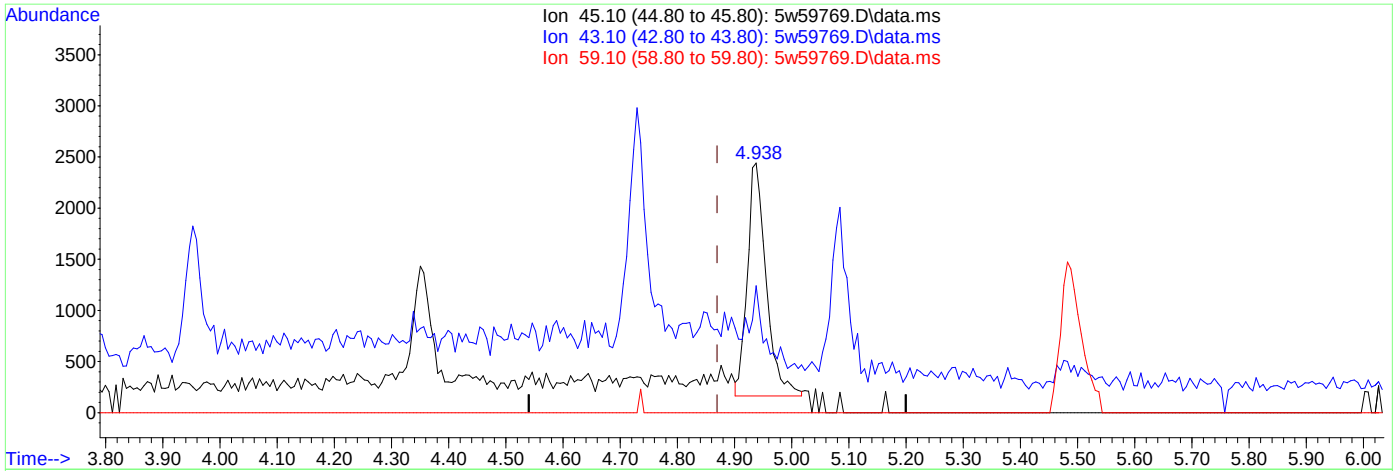
response 6511

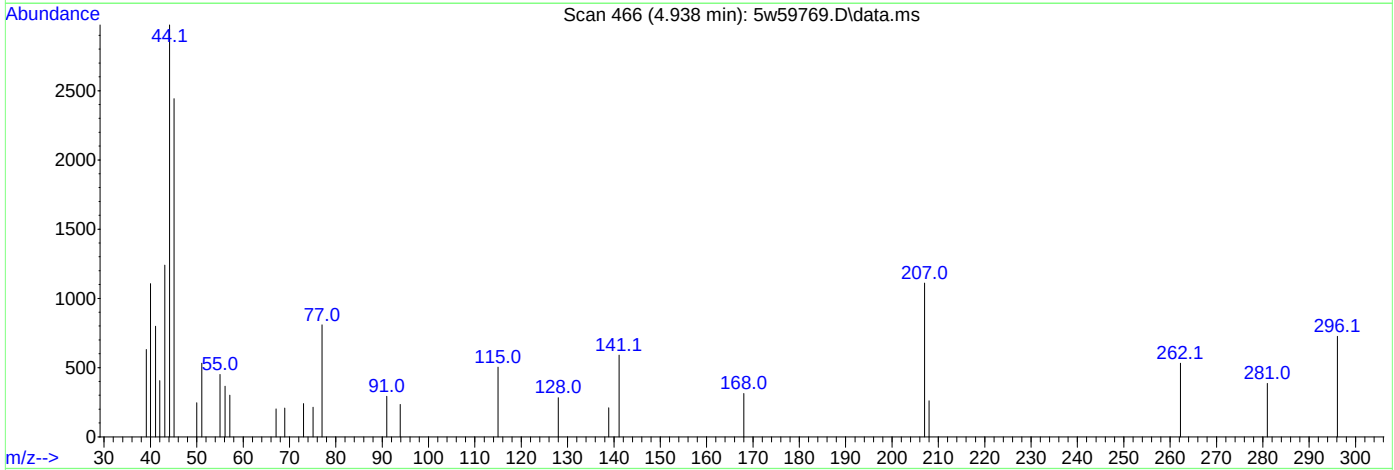
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.06PPBV m

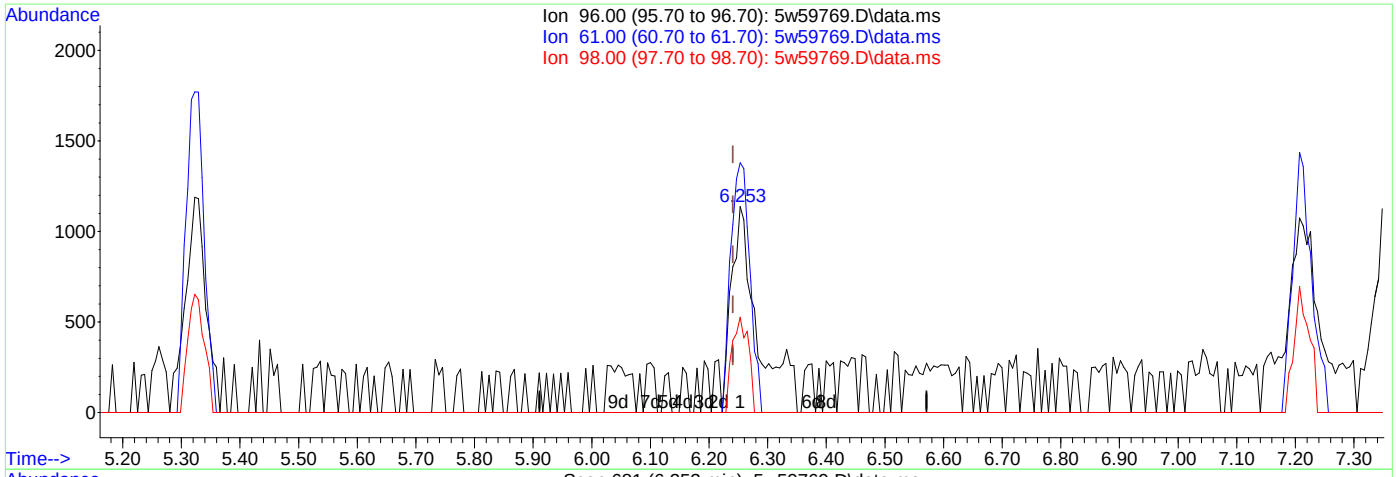
response 5219

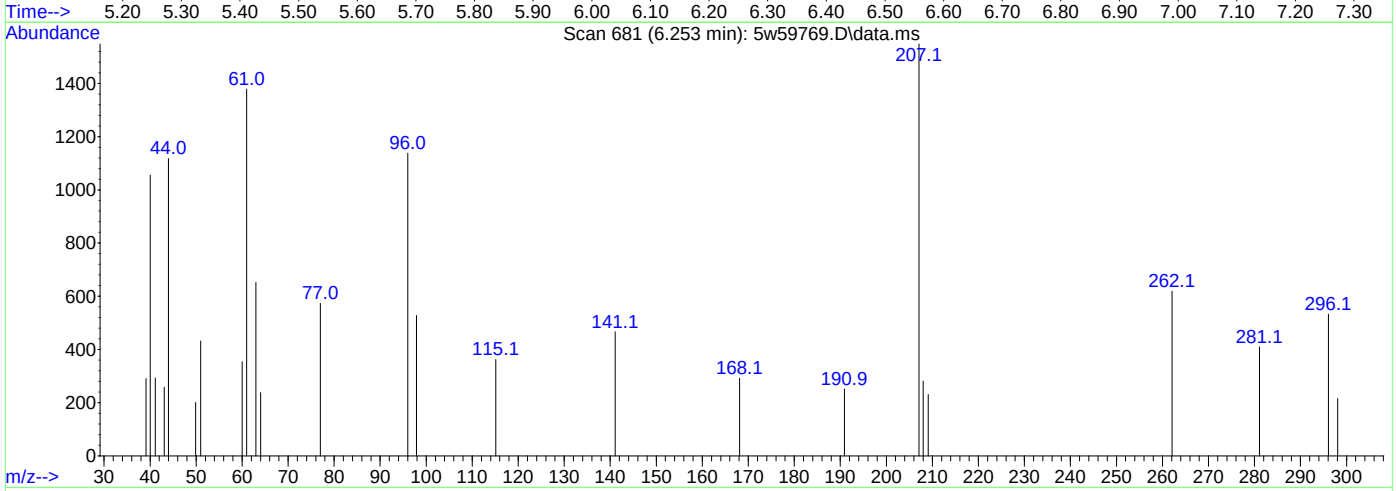
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.07PPBV

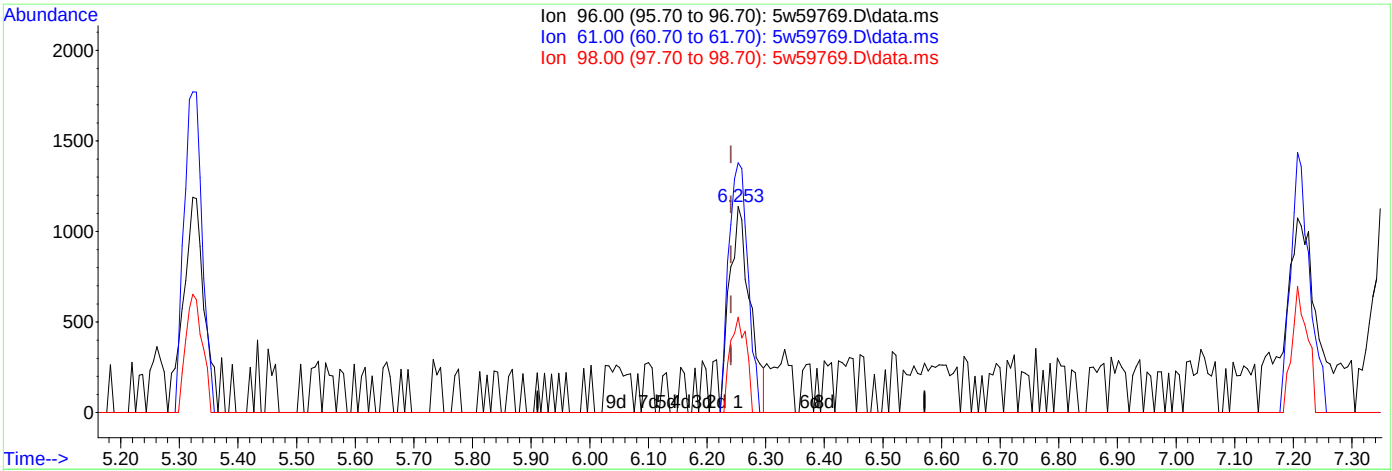
response 3570

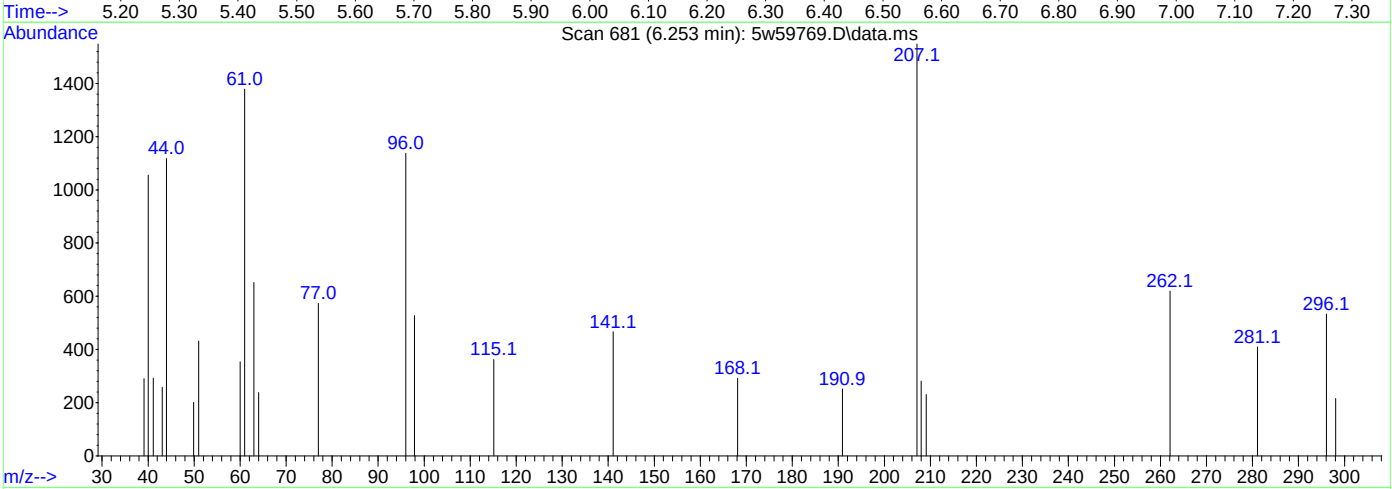
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	88.26#
98.00	64.10	28.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.05PPBV m

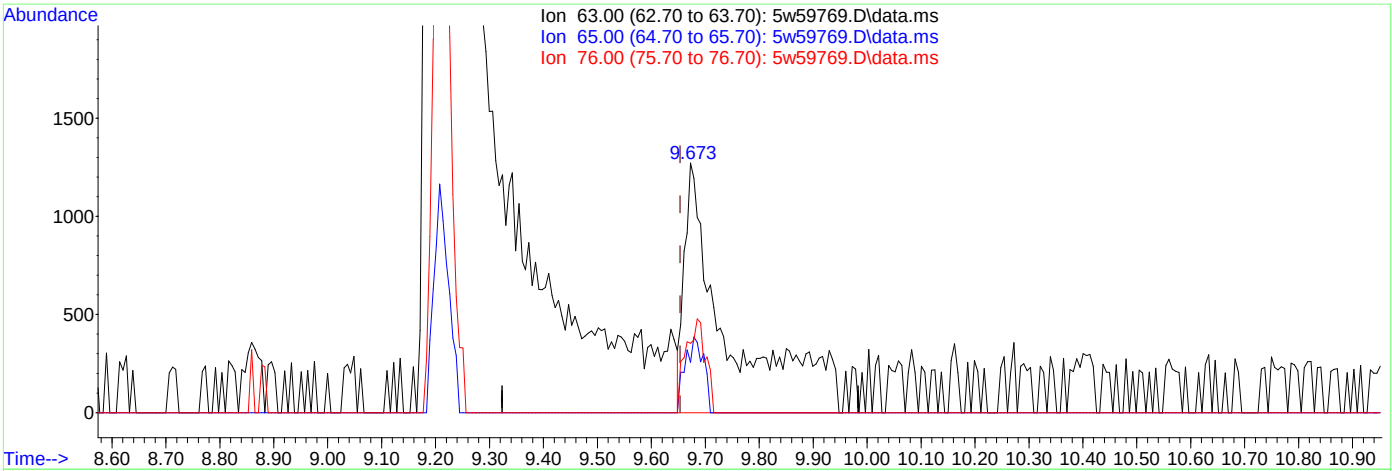
response 2781

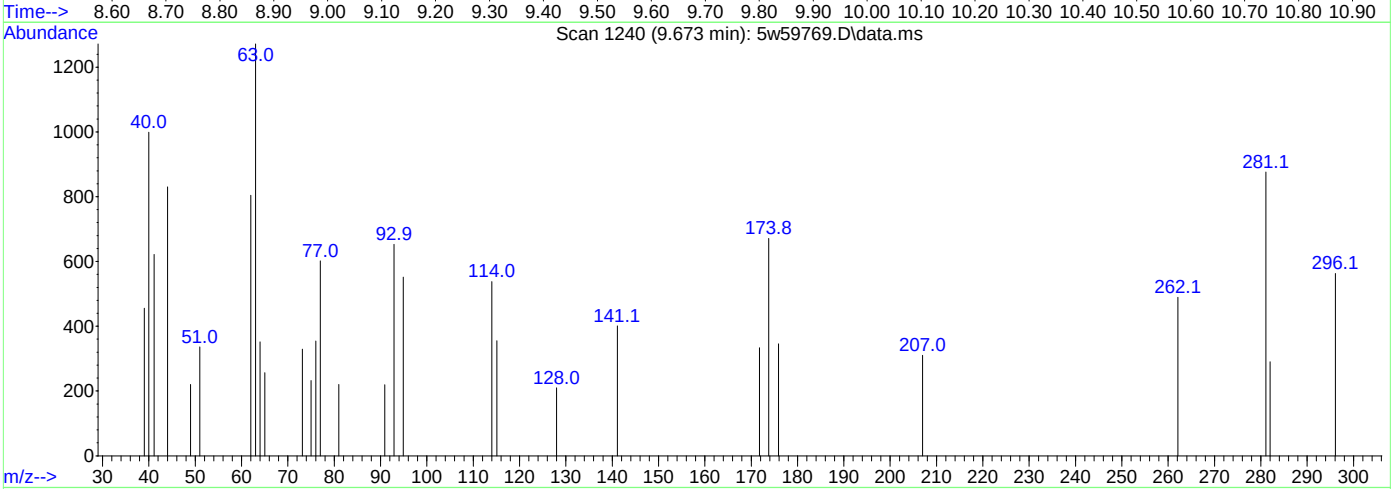
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	113.30#
98.00	64.10	36.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.11PPBV

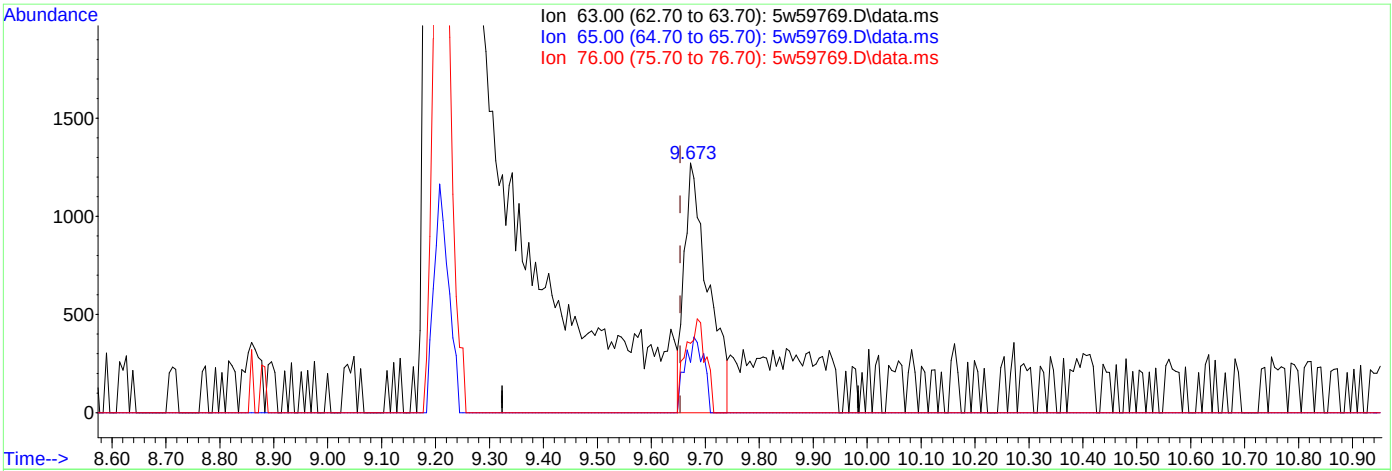
response 7133

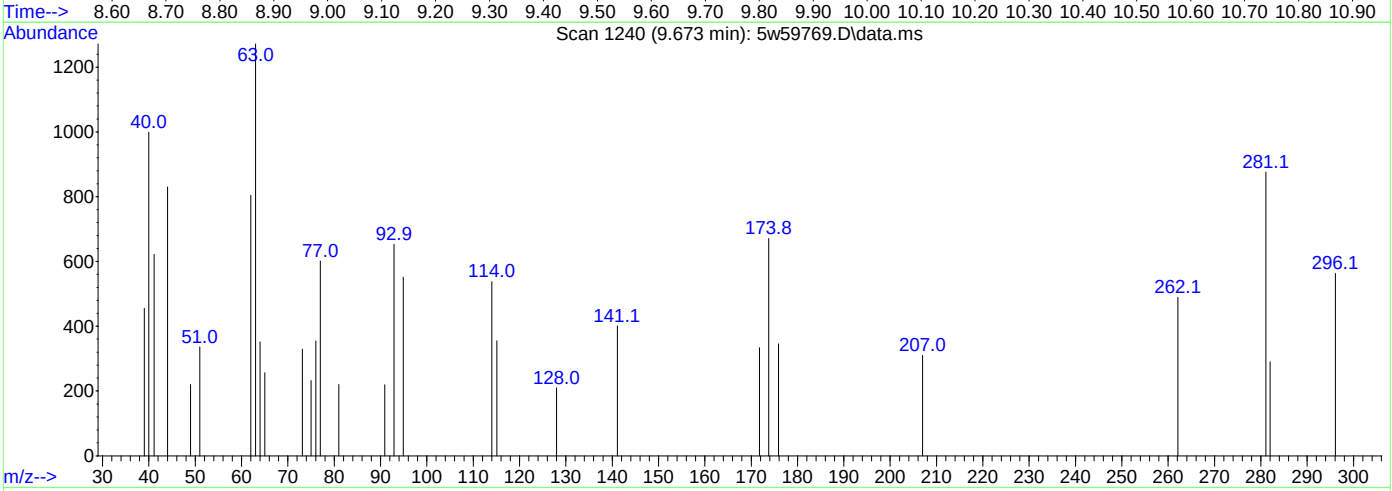
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	12.81
76.00	41.50	17.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.06PPBV m

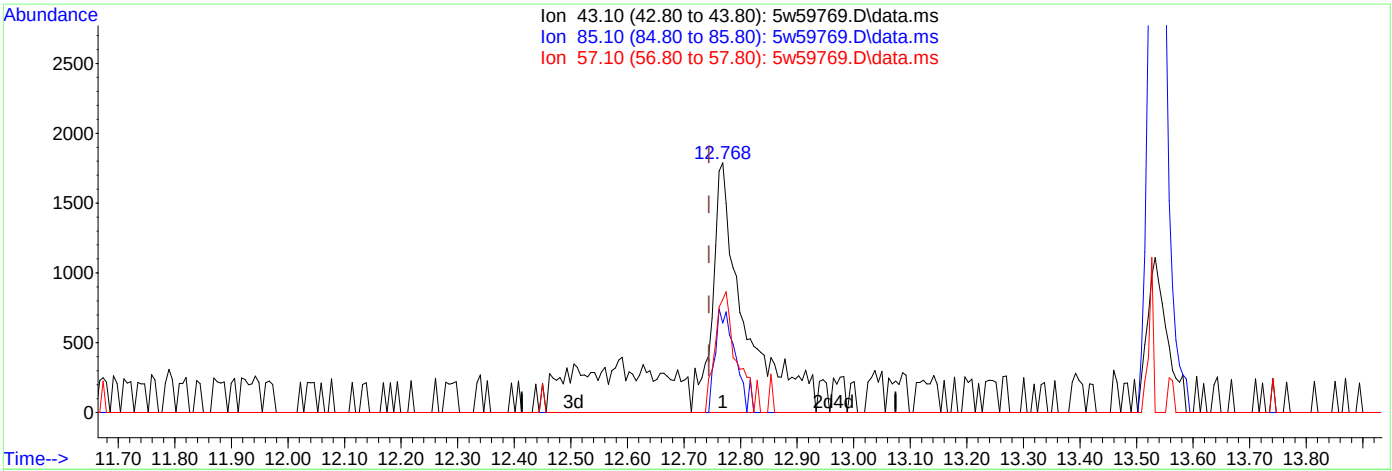
response 3887

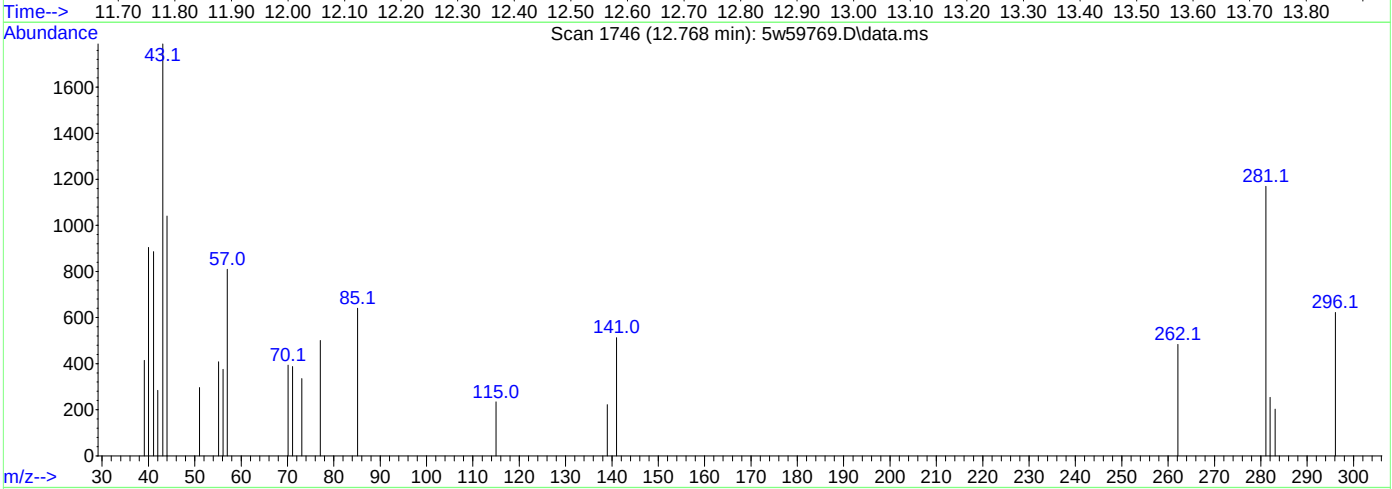
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	23.51
76.00	41.50	31.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.08PPBV

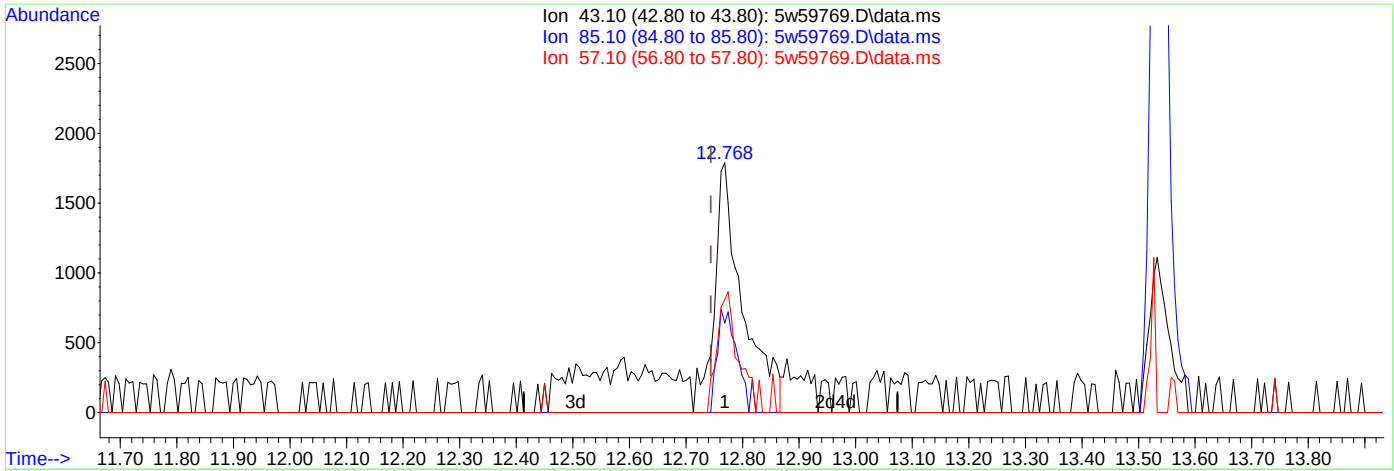
response 7210

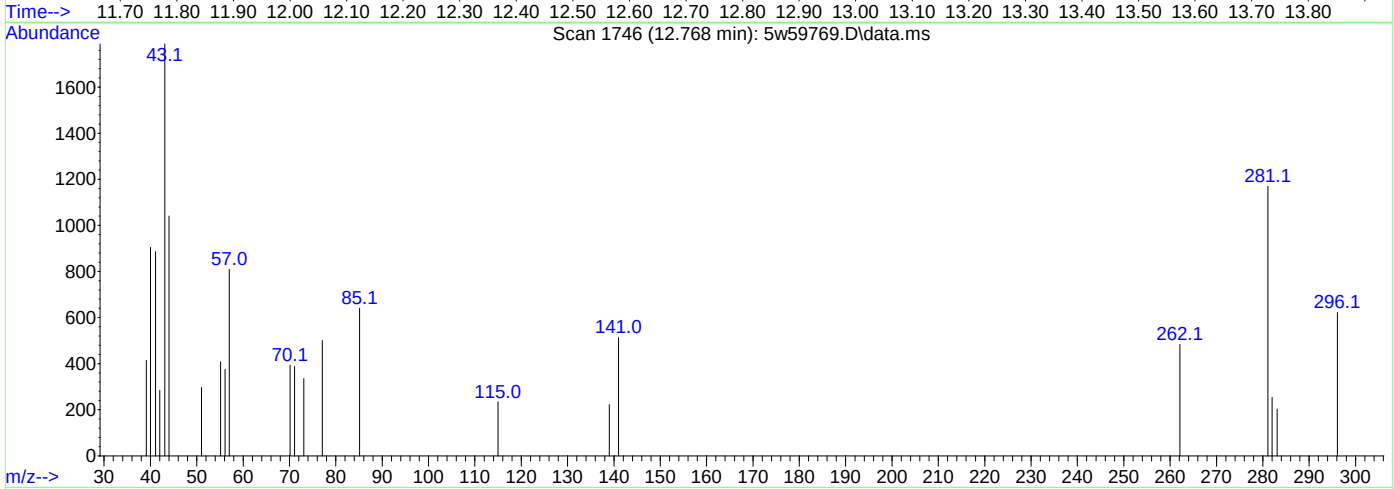
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	25.34
57.10	43.70	32.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.07PPBV m

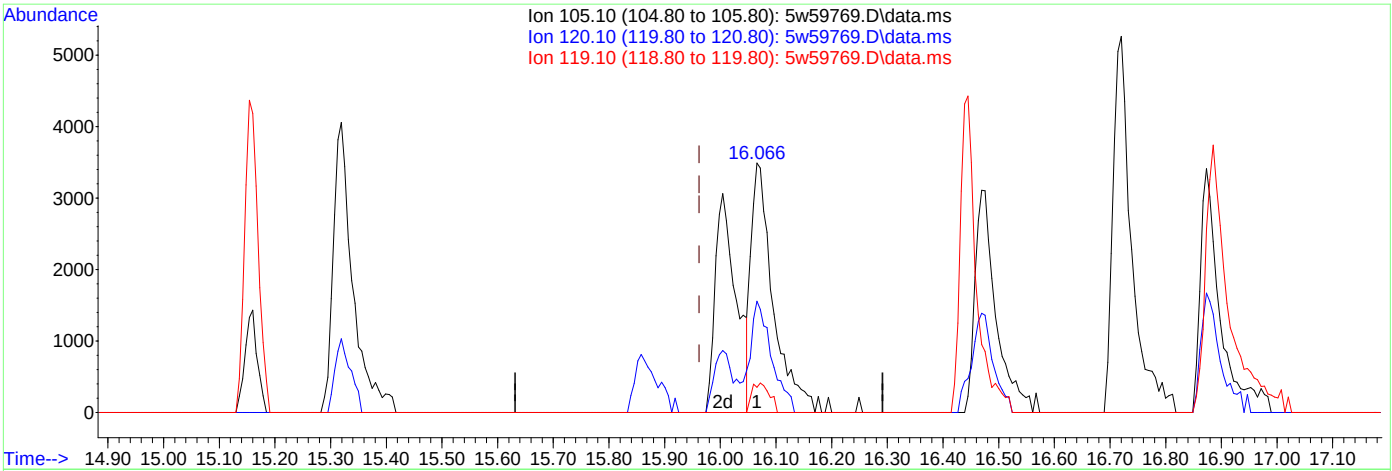
response 6243

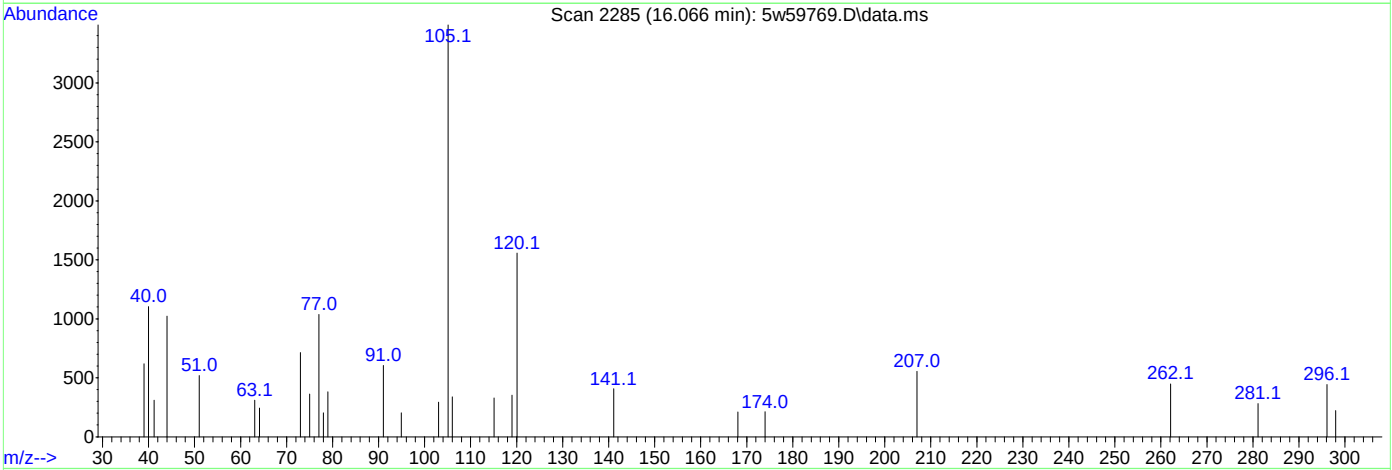
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	29.26
57.10	43.70	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.066min (+0.104) 0.05PPBV

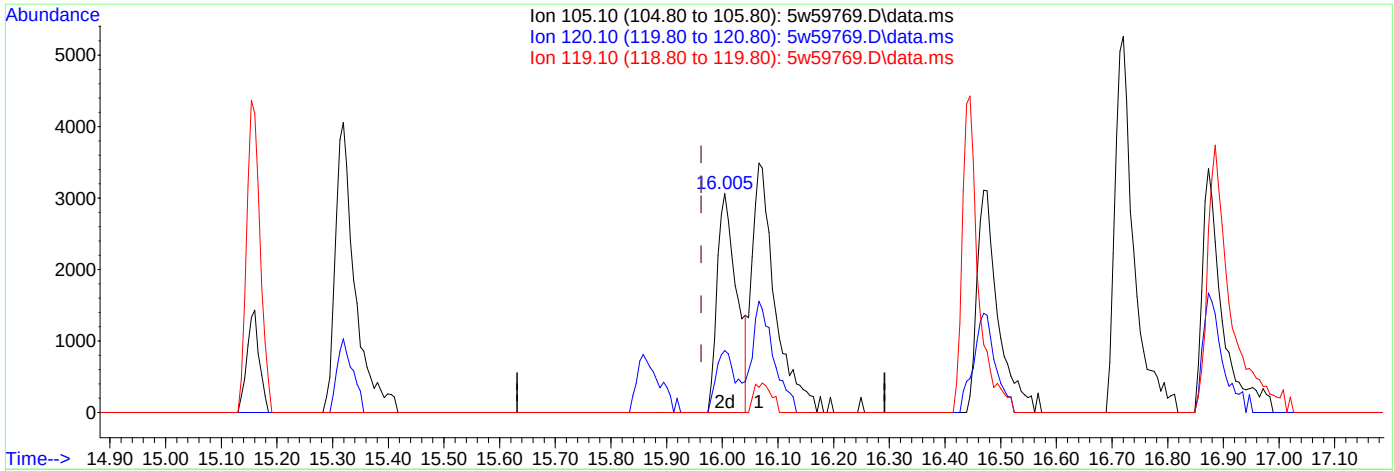
response 9673

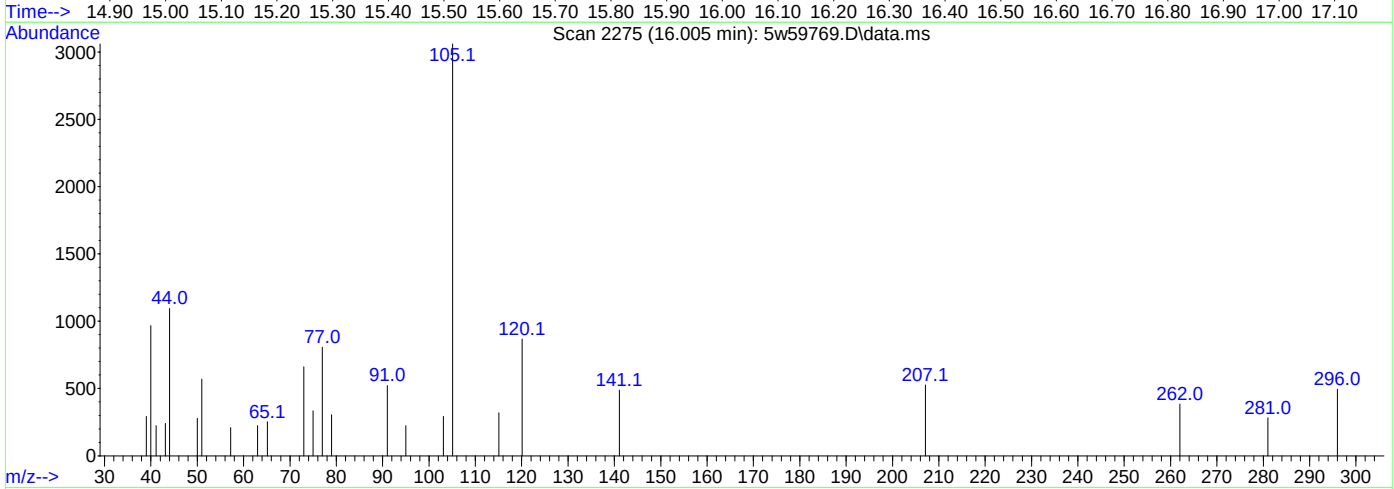
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	42.57
119.10	2.30	9.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.005min (+0.043) 0.04PPBV m

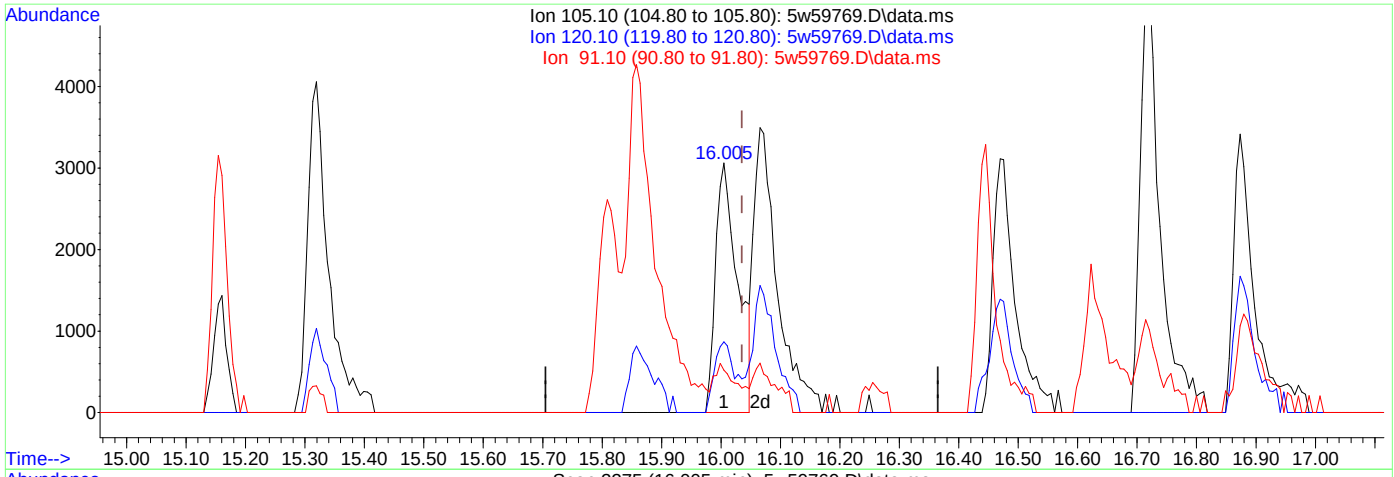
response 7489

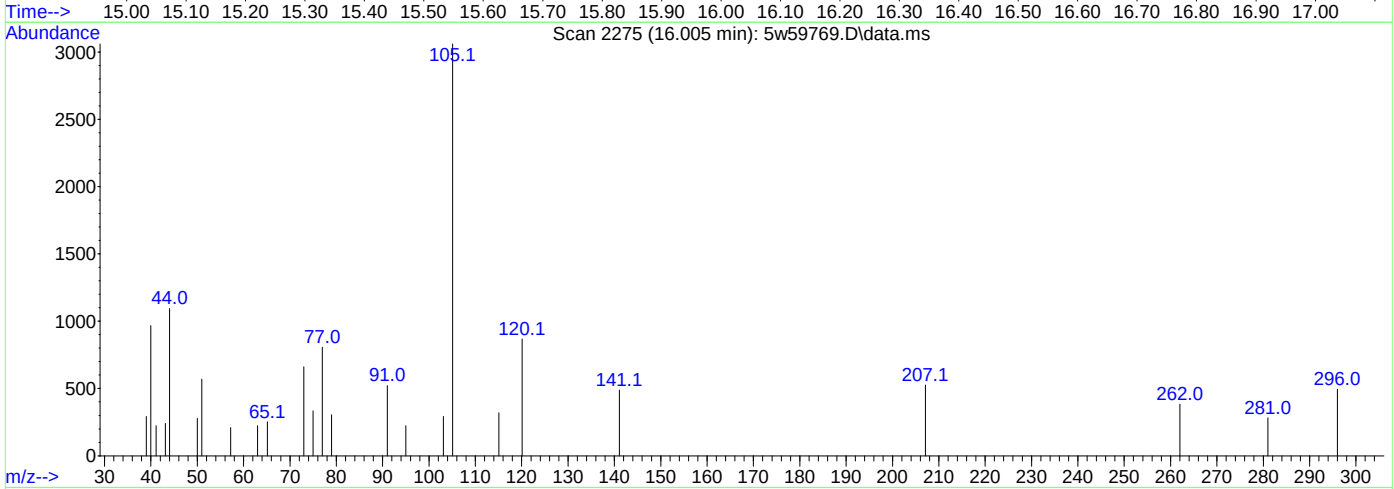
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	54.99
119.10	2.30	12.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.005min (-0.030) 0.04PPBV

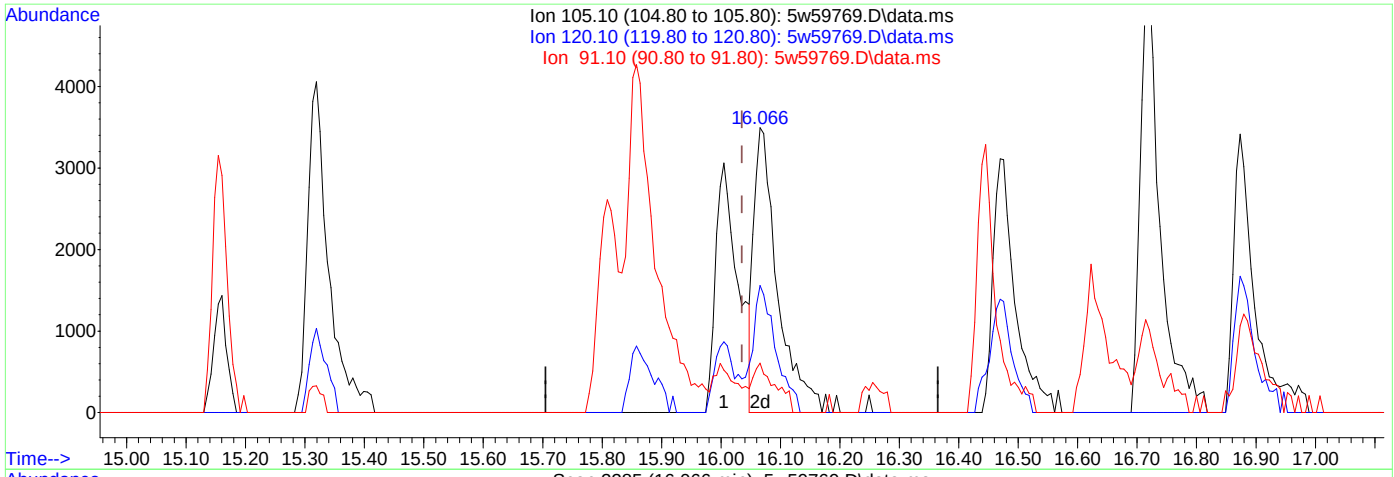
response 7976

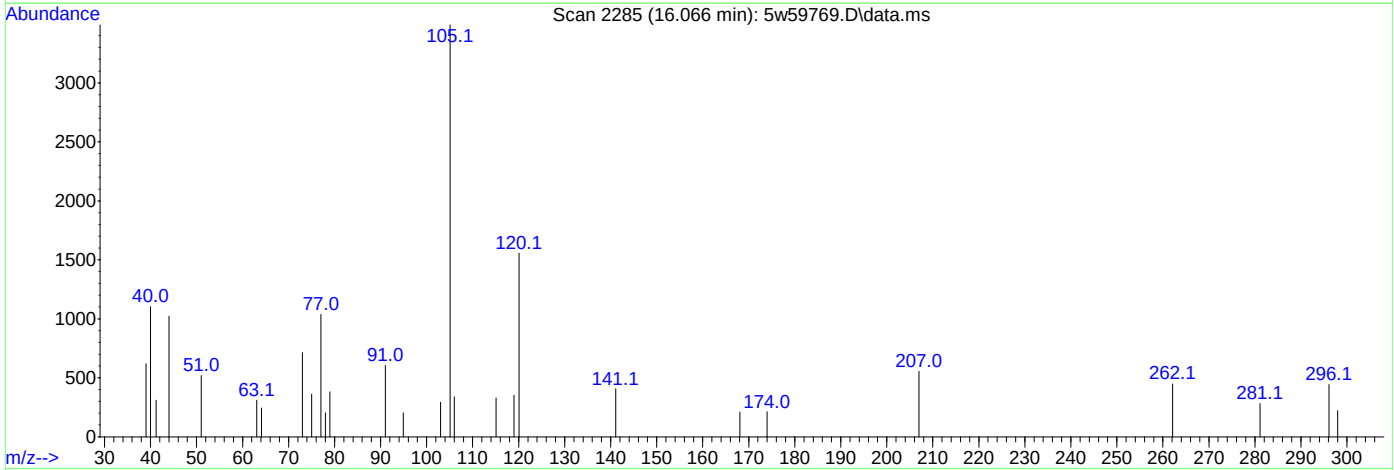
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	28.45
91.10	10.80	20.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.066min (+0.031) 0.05PPBV m

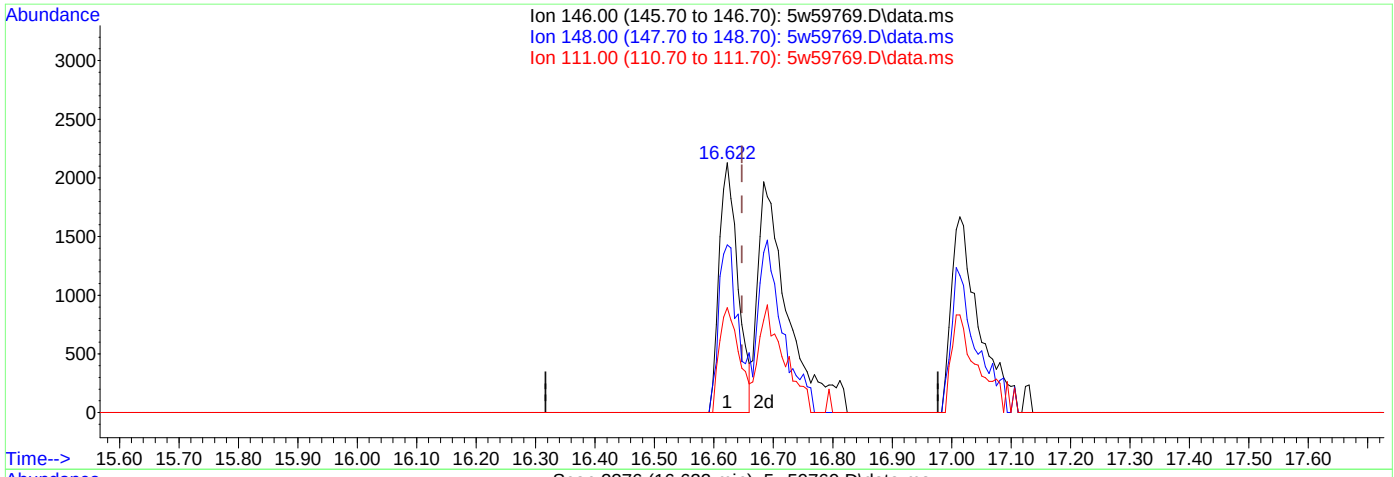
response 9751

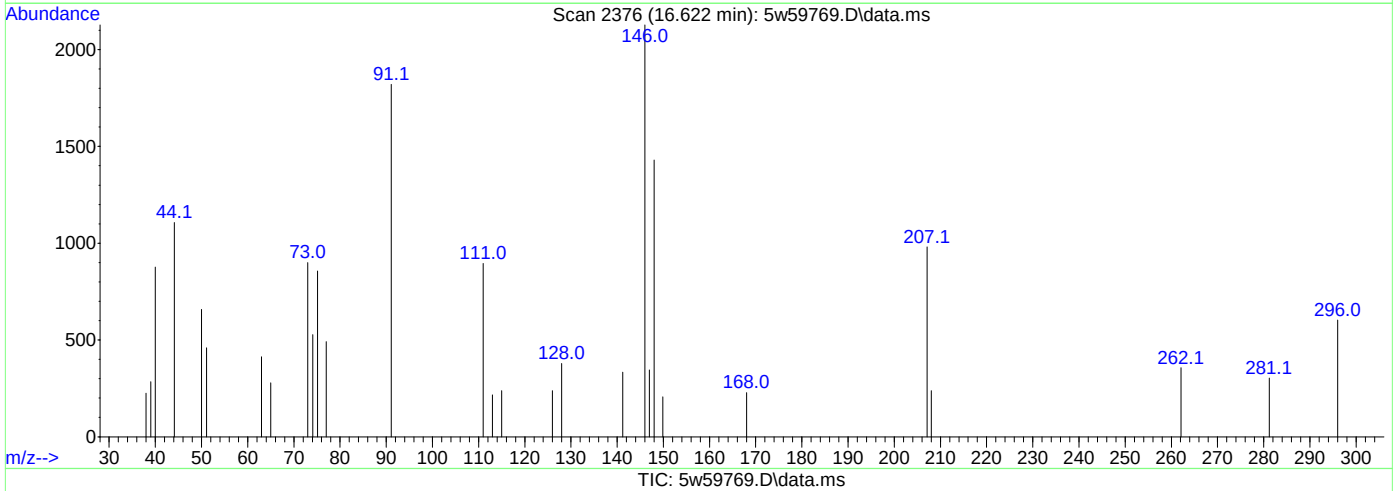
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	23.27
91.10	10.80	17.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.622min (-0.025) 0.03PPBV

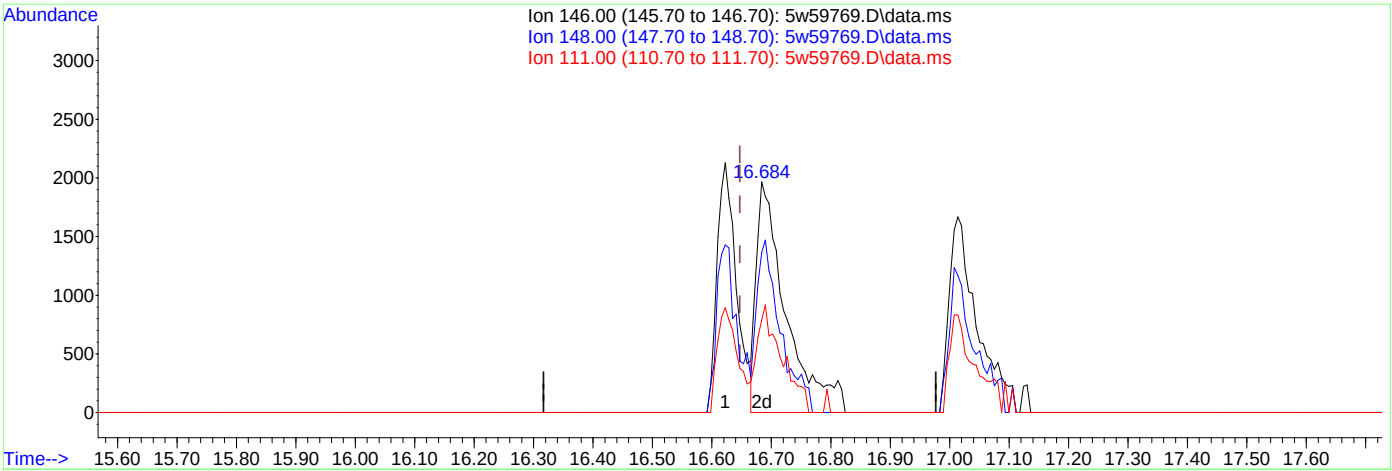
response 4669

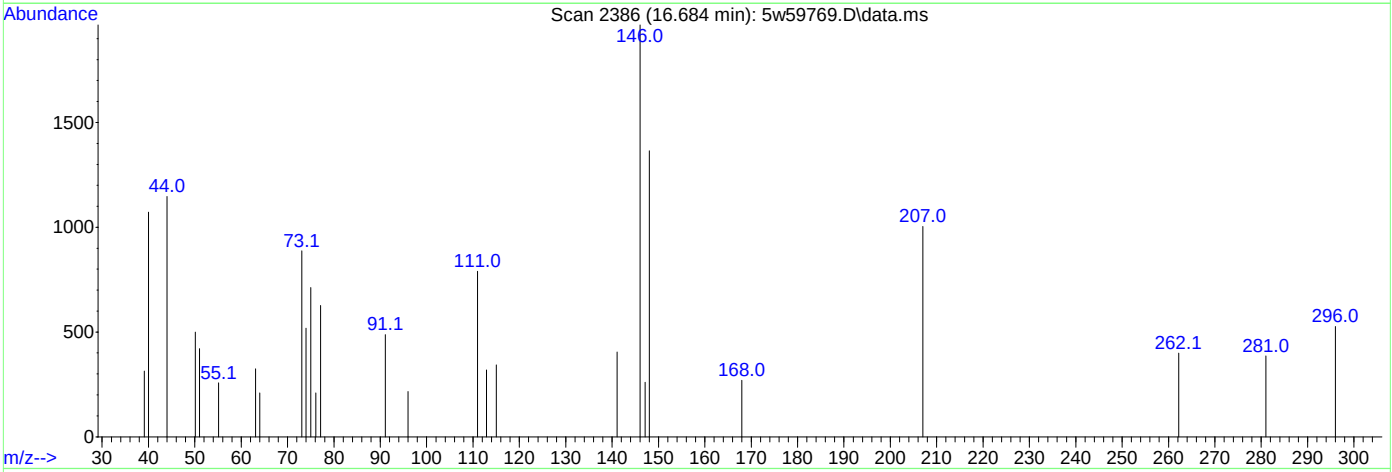
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	73.29
111.00	36.70	44.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.684min (+0.037) 0.05PPBV m

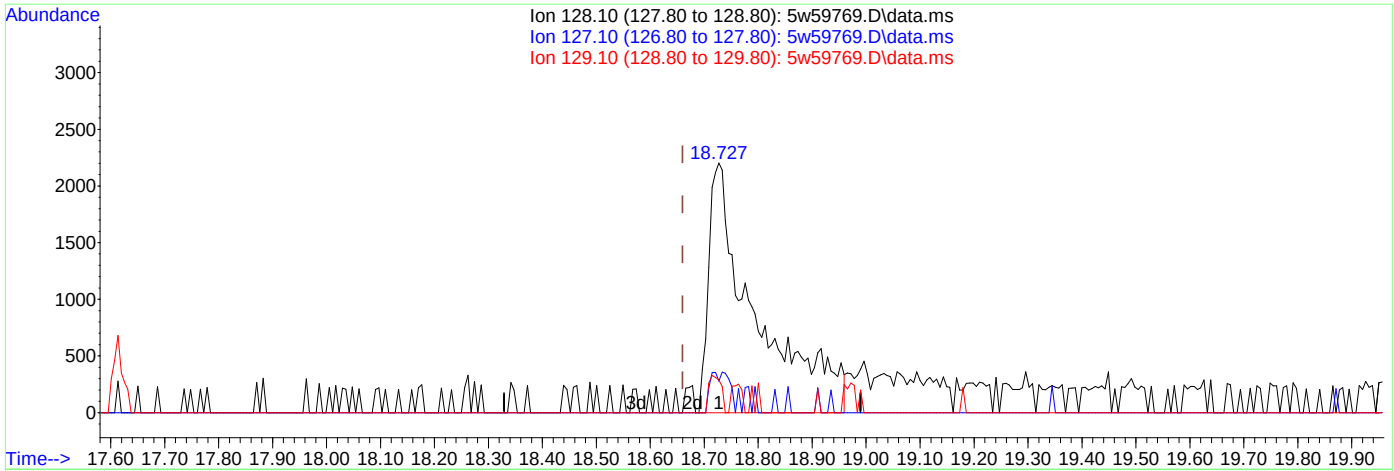
response 6829

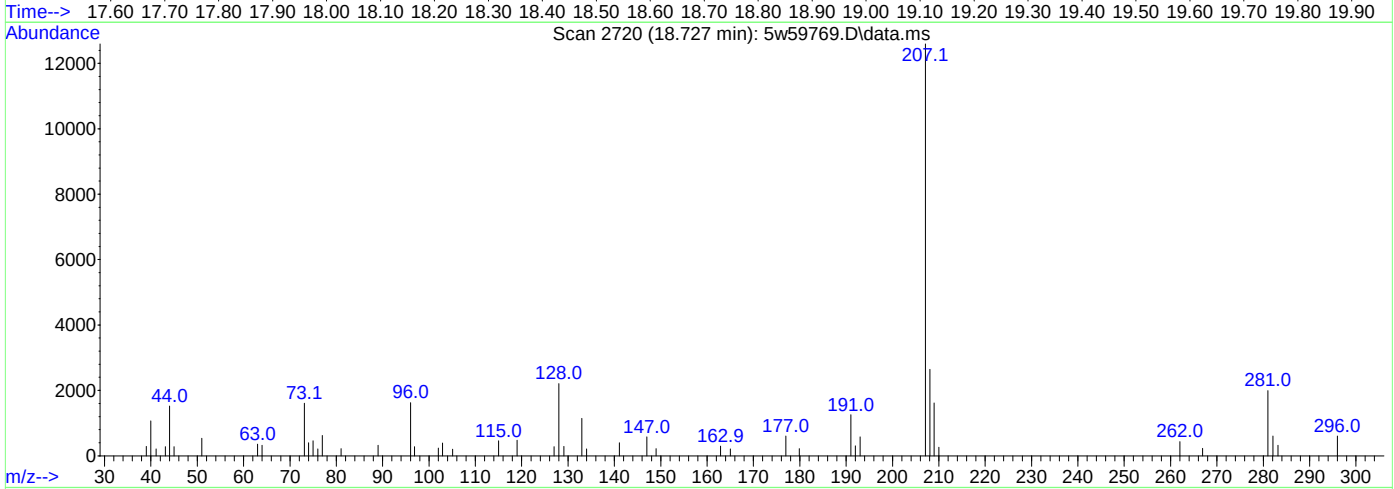
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	50.11
111.00	36.70	30.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.05PPBV

response 13130

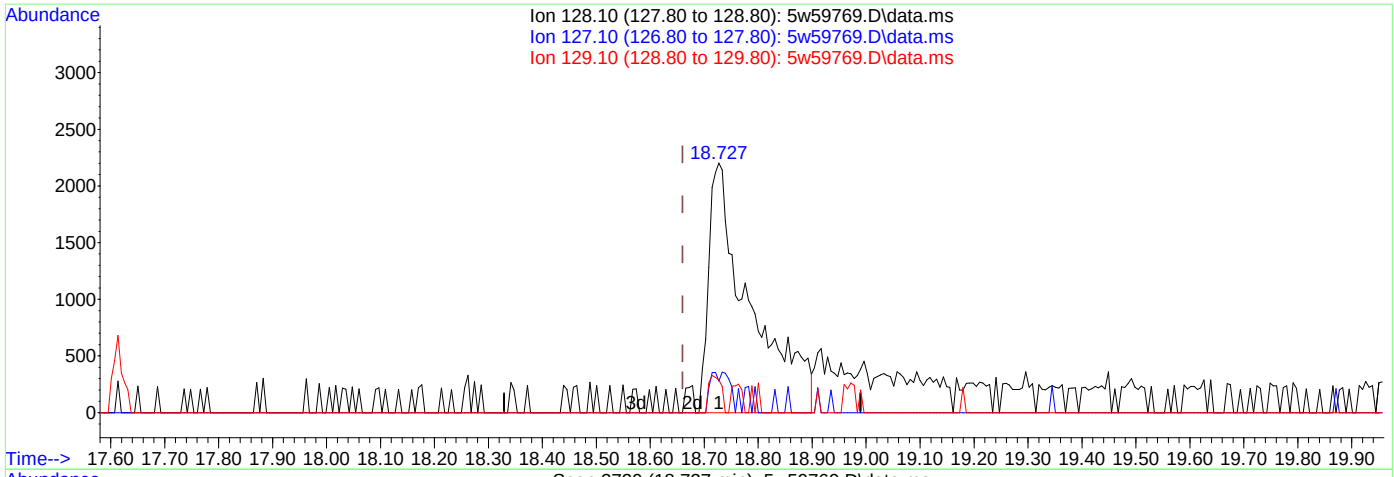
Ion	Exp%	Act%
128.10	100	100
127.10	13.30	6.81
129.10	11.40	3.97
0.00	0.00	0.00

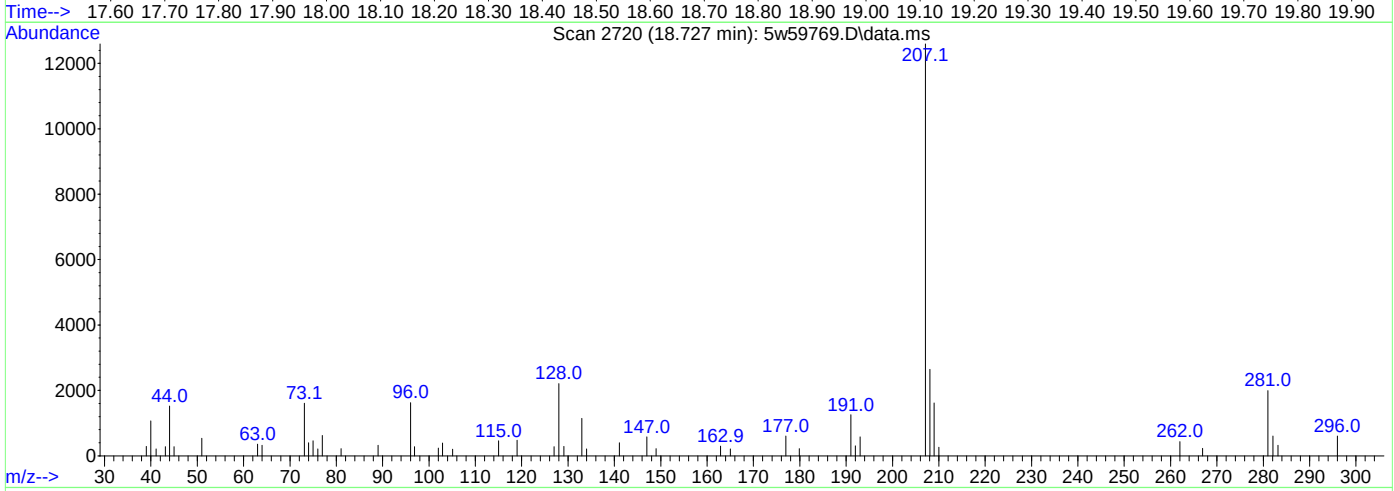
5W59769.D edits: NAPHTHALENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.04PPBV m

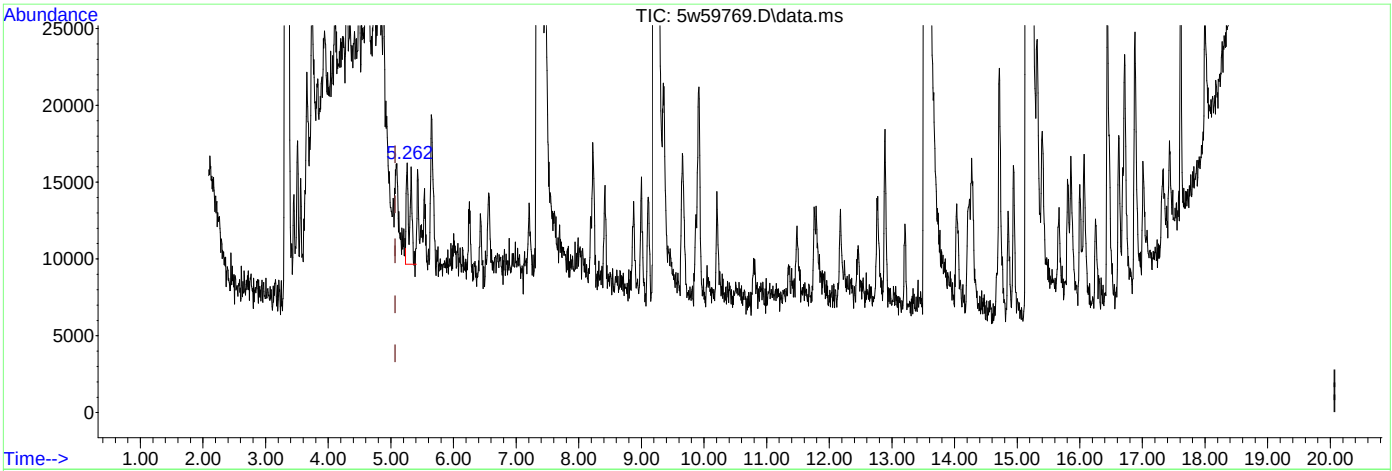
response 11614

Ion	Exp%	Act%
128.10	100	100
127.10	13.30	7.70
129.10	11.40	4.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration



TIC: 5w59769.D\data.ms

(110) TVHC as equiv Pentane

5.262min (+0.190) 0.10PPBV

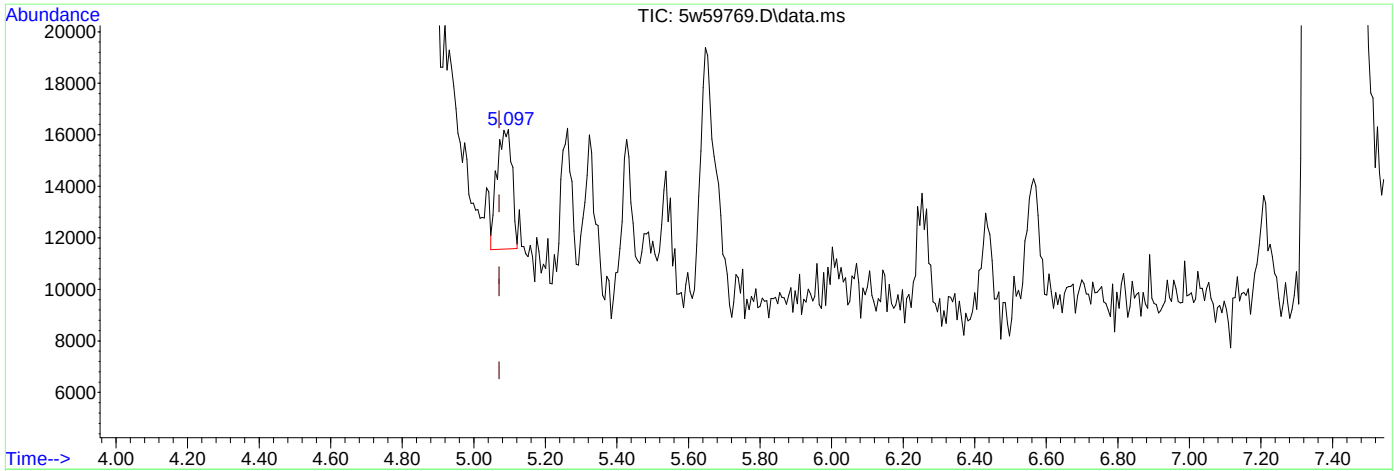
response 28223

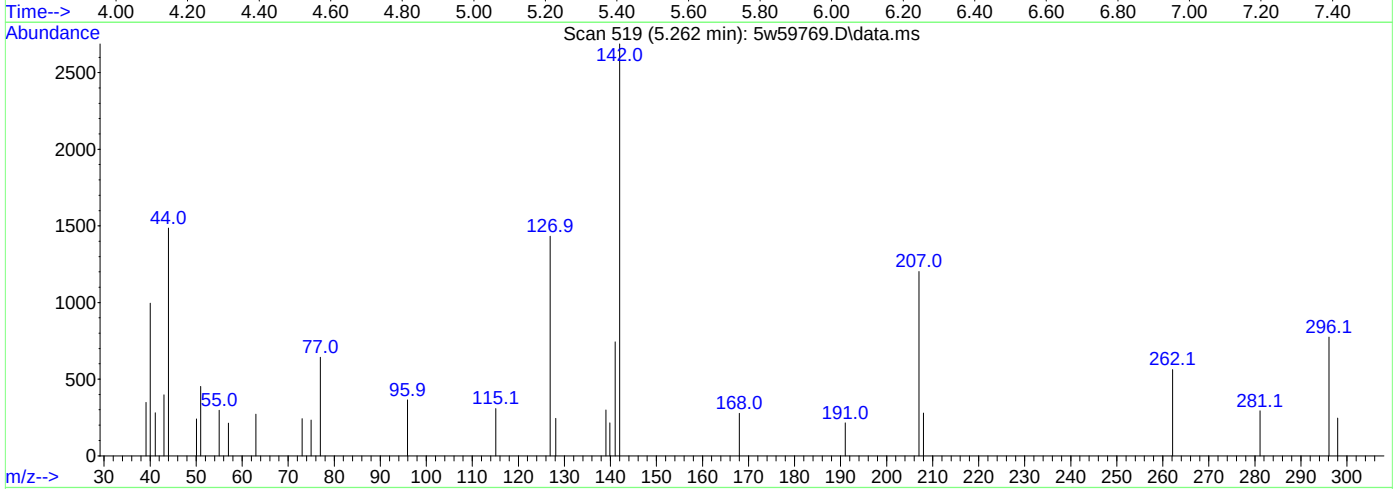
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





(110) TVHC as equiv Pentane

5.097min (+0.025) 0.05PPBV m

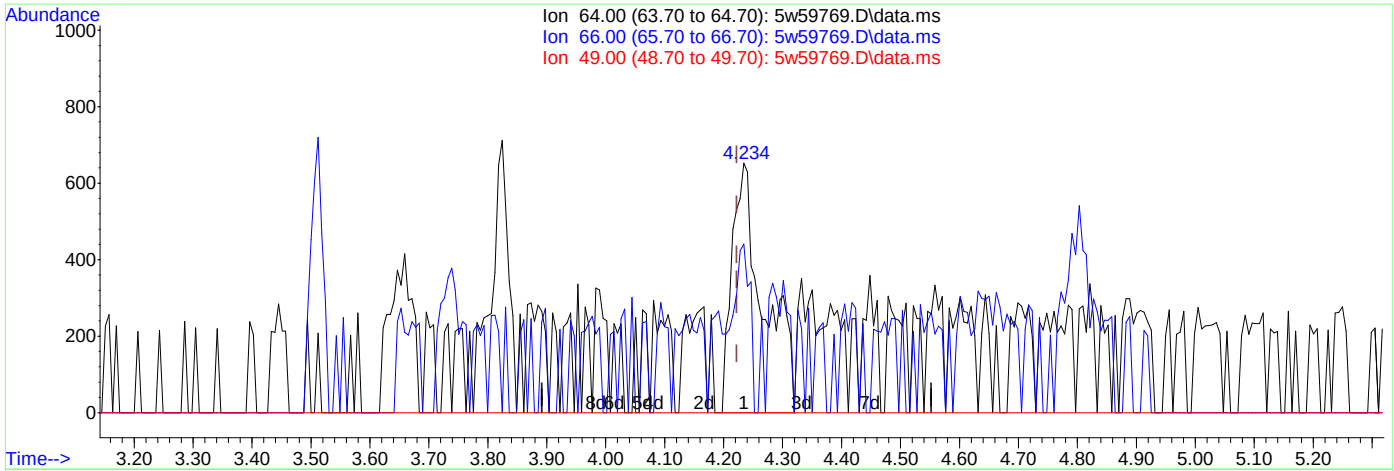
response 13430

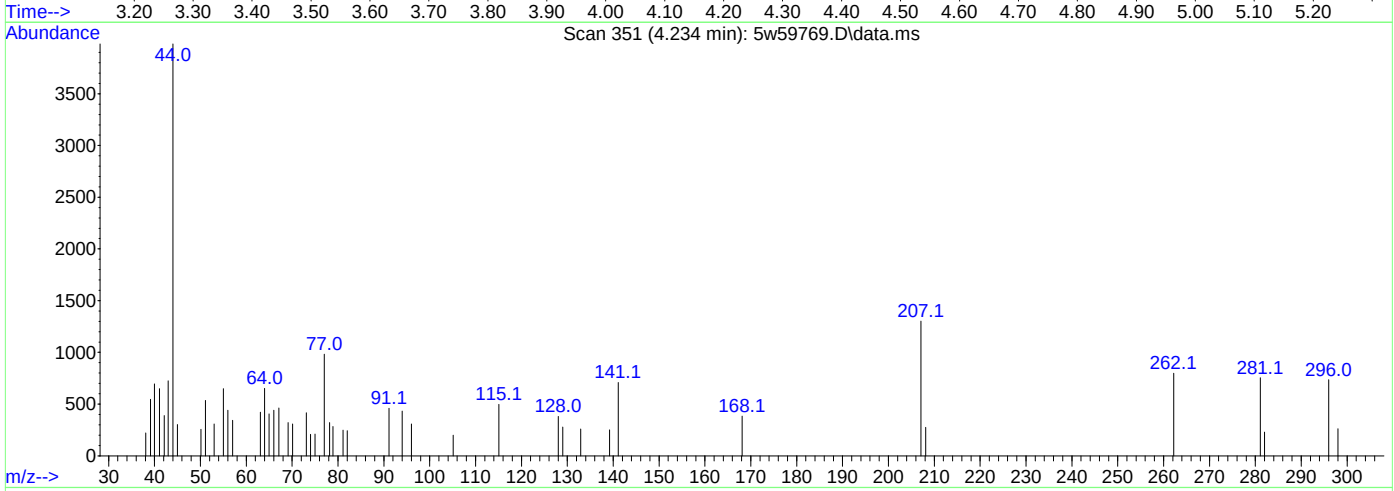
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.11PPBV

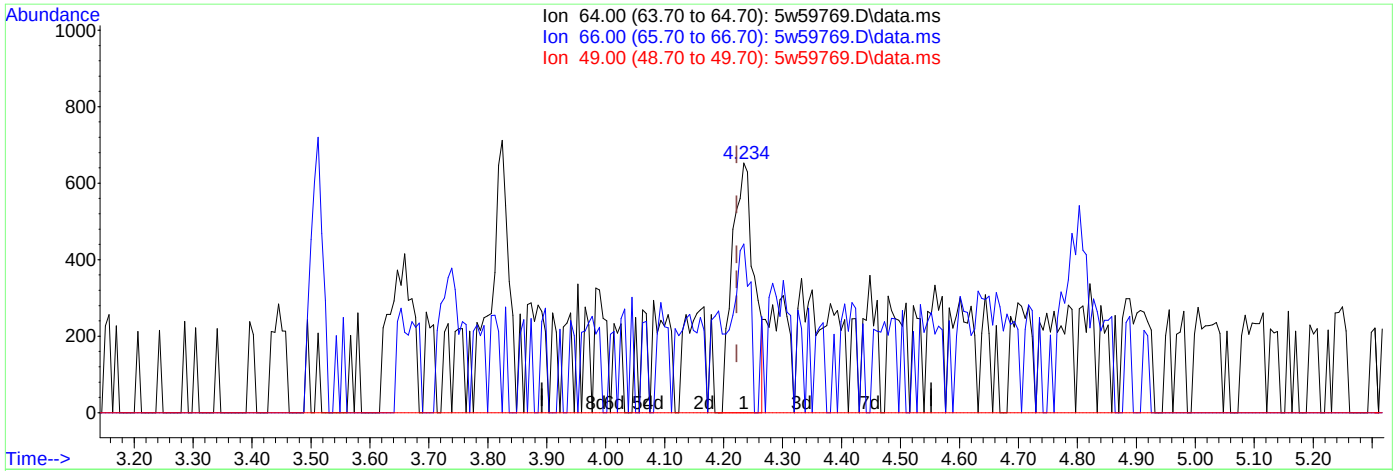
response 2438

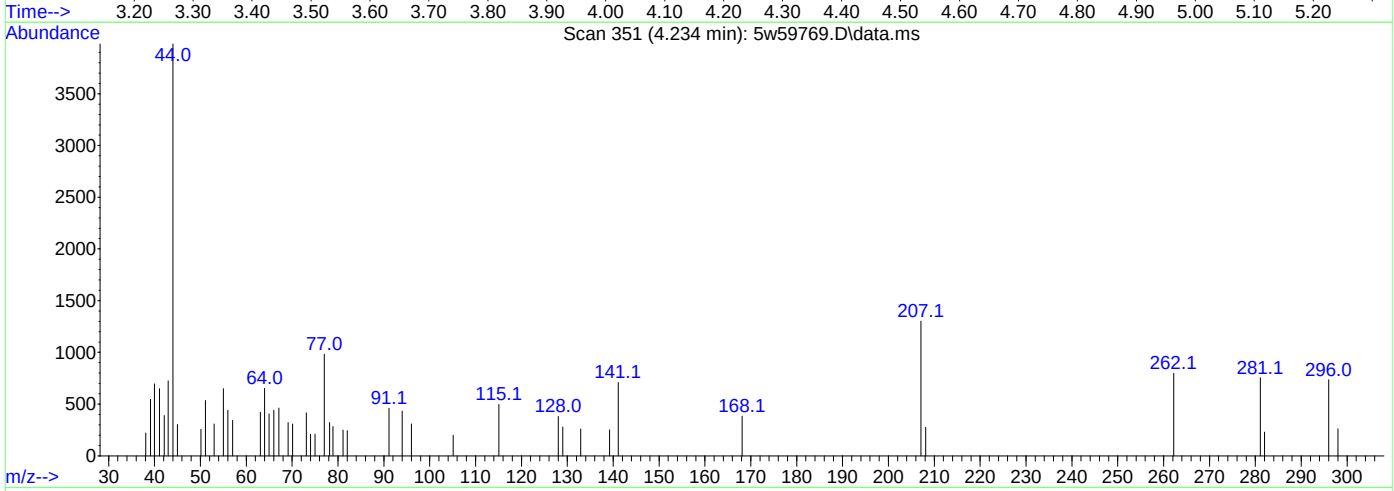
Ion	Exp%	Act%
64.00	100	100
66.00	33.10	31.58
49.00	25.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.08PPBV m

response 1697

Ion	Exp%	Act%
64.00	100	100
66.00	33.10	45.37
49.00	25.30	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	483296	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2143191	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1063437	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	486994	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1424858	10.91	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.10%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	3221	0.10	PPBV		95
3) FREON 152A	3.445	65	4358	0.13	PPBV		89
4) CHLORODIFLUOROMETHANE	3.482	67	1589	0.10	PPBV		90
5) CHLOROTRIFLUOROETHENE	3.506	116	7707	0.10	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	15163	0.11	PPBV		95
7) PROPYLENE	3.506	41	4519	0.13	PPBV	#	69
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13862	0.13	PPBV		96
9) FREON 114	3.732	85	15211	0.12	PPBV		98
10) CHLOROMETHANE	3.665	52	1901	0.13	PPBV	#	75
11) VINYL CHLORIDE	3.818	62	4992	0.11	PPBV		78
12) 1,3-BUTADIENE	3.916	54	3400	0.13	PPBV		93
13) n-BUTANE	3.947	43	5567	0.13	PPBV	#	95
14) BROMOMETHANE	4.106	94	5574	0.12	PPBV		88
15) CHLOROETHANE	4.228	64	3723	0.18	PPBV		72
16) DICHLOROFLUOROMETHANE	4.289	67	10972	0.11	PPBV		90
17) ACETONITRILE	4.522	41	2670m	0.10	PPBV		
18) ACROLEIN	4.601	56	1642m	0.11	PPBV		
19) FREON 123	4.595	83	13808m	0.13	PPBV		
20) FREON 123A	4.638	117	8167	0.13	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	13248	0.11	PPBV		89
22) ISOPROPYL ALCOHOL	4.932	45	12850	0.15	PPBV		84
23) ACETONE	4.724	58	3503	0.18	PPBV		87
24) PENTANE	5.072	42	6510	0.15	PPBV	#	42
25) IODOMETHANE	5.256	142	16474	0.11	PPBV		98
26) 1,1-DICHLOROETHYLENE	5.317	96	6043	0.12	PPBV		88
27) CARBON DISULFIDE	5.672	76	15443	0.12	PPBV		89
28) ETHANOL	4.344	45	5592	0.26	PPBV		87
29) BROMOETHENE	4.485	106	5356	0.11	PPBV		95
30) ACRYLONITRILE	5.091	52	3869	0.12	PPBV	#	91
31) METHYLENE CHLORIDE	5.427	84	6090	0.14	PPBV		98
32) 3-CHLOROPROPENE	5.531	76	2581	0.11	PPBV	#	52
33) FREON 113	5.647	151	8991	0.10	PPBV		97
34) TRANS-1,2-DICHLOROETHY...	6.247	96	6117	0.12	PPBV		82
35) TERTIARY BUTYL ALCOHOL	5.476	59	9217	0.09	PPBV		76
36) METHYL TERTIARY BUTYL ...	6.547	73	15796	0.12	PPBV		87
37) TETRAHYDROFURAN	7.966	72	1469	0.08	PPBV	#	45
38) HEXANE	7.385	57	9533	0.13	PPBV		83
40) 1,1-DICHLOROETHANE	6.430	63	12904	0.14	PPBV		91
41) METHYL ETHYL KETONE	6.920	72	956m	0.05	PPBV		
42) cis-1,2-DICHLOROETHYLENE	7.207	96	6979	0.13	PPBV		77
43) DIISOPROPYL ETHER	7.452	59	1846	0.09	PPBV	#	39
44) ETHYL ACETATE	7.544	61	434m	0.03	PPBV		
45) METHYL ACRYLATE	7.507	55	6719m	0.08	PPBV		
46) CHLOROFORM	7.483	83	11842	0.11	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	9616	0.11	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	11905	0.11	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	12586	0.10	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

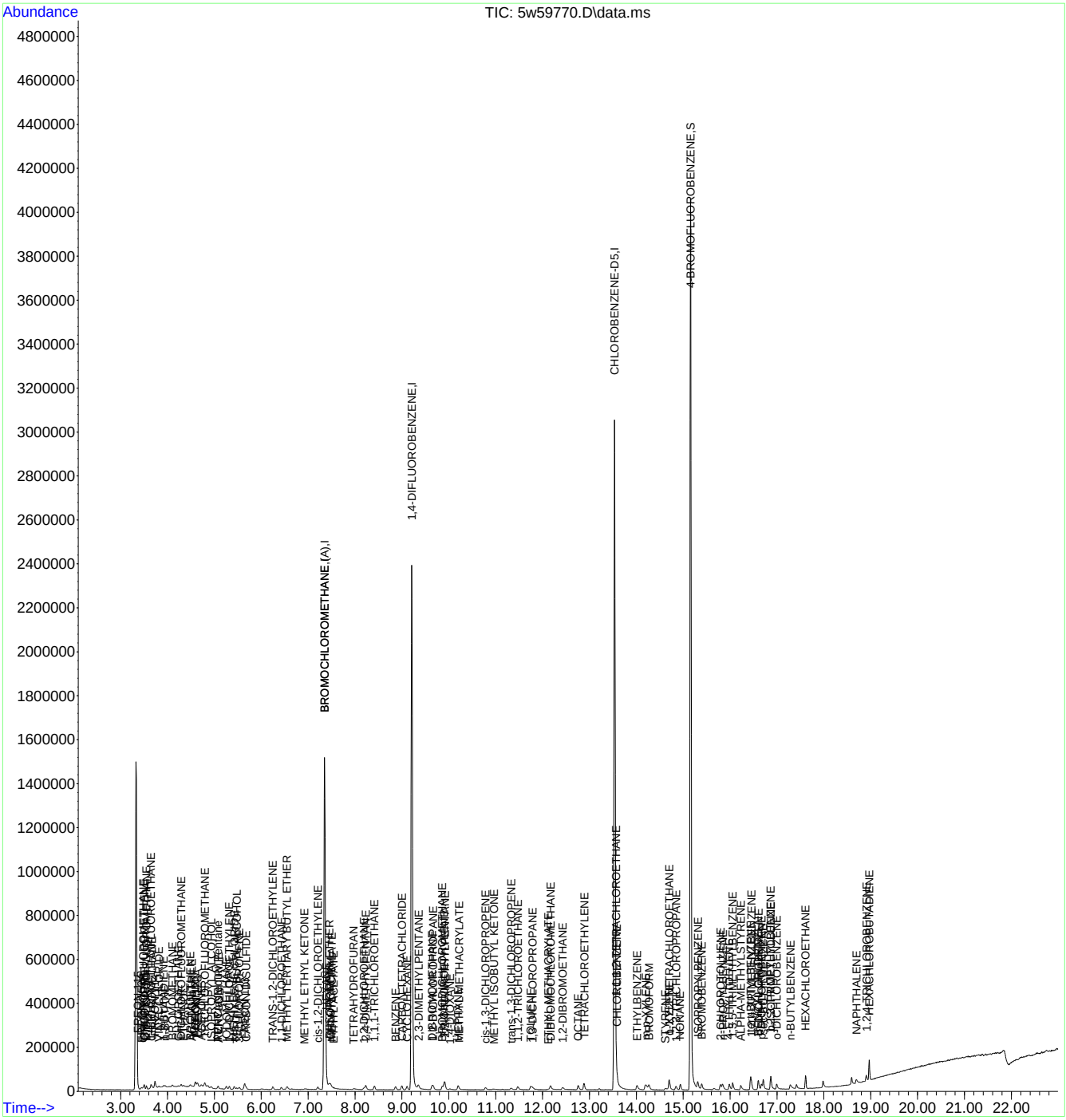
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	8.186	62	7761	0.10	PPBV		85
52)	BENZENE	8.865	78	15430	0.11	PPBV		91
53)	CYCLOHEXANE	9.110	84	5905	0.10	PPBV		90
54)	2,3-DIMETHYLPENTANE	9.361	71	2989	0.10	PPBV		89
55)	TRICHLOROETHYLENE	9.899	95	7303	0.10	PPBV		98
56)	1,2-DICHLOROPROPANE	9.667	63	9099	0.15	PPBV		85
57)	DIBROMOMETHANE	9.642	174	8479	0.11	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	12436	0.10	PPBV		94
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	24769	0.11	PPBV		93
61)	1,4-DIOXANE	10.028	88	3670	0.11	PPBV	#	1
62)	HEPTANE	10.199	43	10112	0.13	PPBV		90
63)	METHYL METHACRYLATE	10.217	69	3857	0.08	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.964	58	2182	0.05	PPBV	#	26
65)	cis-1,3-DICHLOROPROPENE	10.780	75	10824	0.11	PPBV		90
66)	TOLUENE	11.747	92	10446	0.10	PPBV		90
67)	1,3-DICHLOROPROPANE	11.789	76	9064	0.10	PPBV	#	90
68)	trans-1,3-DICHLOROPROPENE	11.331	75	9955	0.11	PPBV		88
69)	1,1,2-TRICHLOROETHANE	11.471	83	5972	0.10	PPBV		90
72)	ETHYL METHACRYLATE	12.120	69	5758	0.08	PPBV	#	65
73)	TETRACHLOROETHYLENE	12.891	164	8344	0.12	PPBV		90
74)	DIBROMOCHLOROMETHANE	12.169	129	13809	0.11	PPBV		97
75)	1,2-DIBROMOETHANE	12.426	107	10727	0.11	PPBV	#	98
76)	OCTANE	12.756	43	11856	0.13	PPBV		95
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	8635	0.11	PPBV		99
78)	CHLOROBENZENE	13.588	112	15456	0.12	PPBV	#	49
79)	ETHYLBENZENE	14.016	91	24398	0.12	PPBV		95
80)	m,p-XYLENE	14.200	106	17695	0.22	PPBV		94
81)	o-XYLENE	14.701	106	8363	0.11	PPBV		88
82)	STYRENE	14.616	104	12755	0.11	PPBV		84
83)	NONANE	14.934	43	13253	0.14	PPBV		94
84)	BROMOFORM	14.267	173	12500	0.10	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.701	83	15380	0.12	PPBV		96
87)	1,2,3-TRICHLOROPROPANE	14.848	75	13012	0.13	PPBV		86
88)	ISOPROPYLBENZENE	15.313	105	26261	0.12	PPBV		98
89)	BROMOBENZENE	15.393	77	13681	0.12	PPBV		90
90)	2-CHLOROTOLUENE	15.797	126	6870	0.11	PPBV		79
91)	n-PROPYLBENZENE	15.845	120	6334	0.10	PPBV		96
92)	4-ETHYLTOLUENE	15.980	105	22792	0.11	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.054	105	24501	0.13	PPBV		92
94)	ALPHA-METHYLSTYRENE	16.231	118	9018	0.09	PPBV		93
95)	tert-BUTYLBENZENE	16.439	134	4502	0.11	PPBV		89
96)	1,2,4-TRIMETHYLBENZENE	16.457	105	21144	0.12	PPBV		95
97)	m-DICHLOROBENZENE	16.604	146	14099	0.10	PPBV		98
98)	BENZYL CHLORIDE	16.598	91	15140	0.09	PPBV		92
99)	p-DICHLOROBENZENE	16.671	146	17844	0.12	PPBV		99
100)	sec-BUTYLBENZENE	16.708	134	5680	0.11	PPBV	#	86
101)	1,2,3-TRIMETHYLBENZENE	16.861	105	23306	0.12	PPBV		93
102)	p-ISOPROPYLTOLUENE	16.867	134	6197	0.11	PPBV	#	80
103)	o-DICHLOROBENZENE	16.996	146	15528	0.11	PPBV		97
104)	n-BUTYLBENZENE	17.289	134	5383	0.09	PPBV	#	64
105)	HEXACHLOROETHANE	17.607	117	10817	0.11	PPBV		96
106)	HEXACHLOROBUTADIENE	18.966	225	14991	0.12	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.910	180	13603	0.10	PPBV		93
108)	NAPHTHALENE	18.696	128	31596	0.11	PPBV		94
110)	TVHC as equiv Pentane	5.078	TIC	29029	0.10	PPBV		100

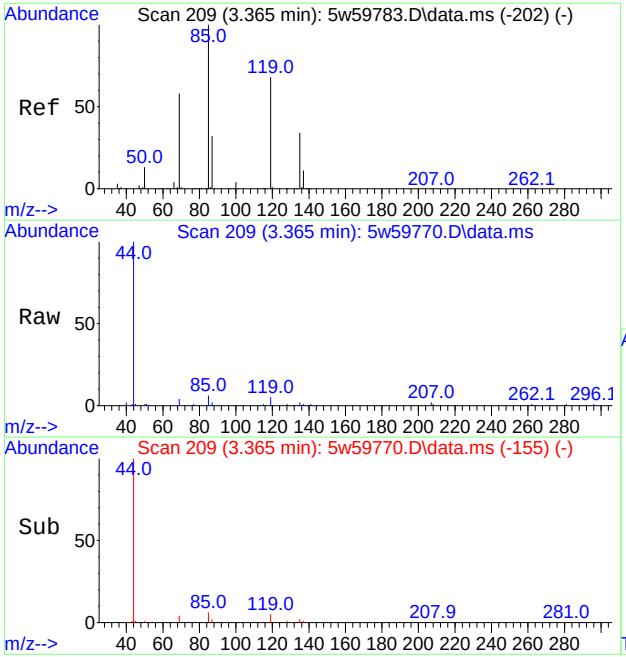
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

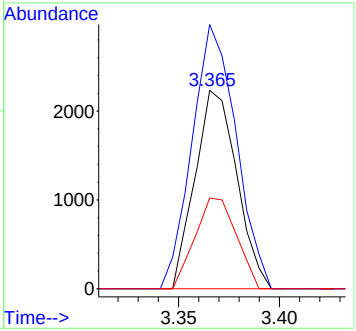


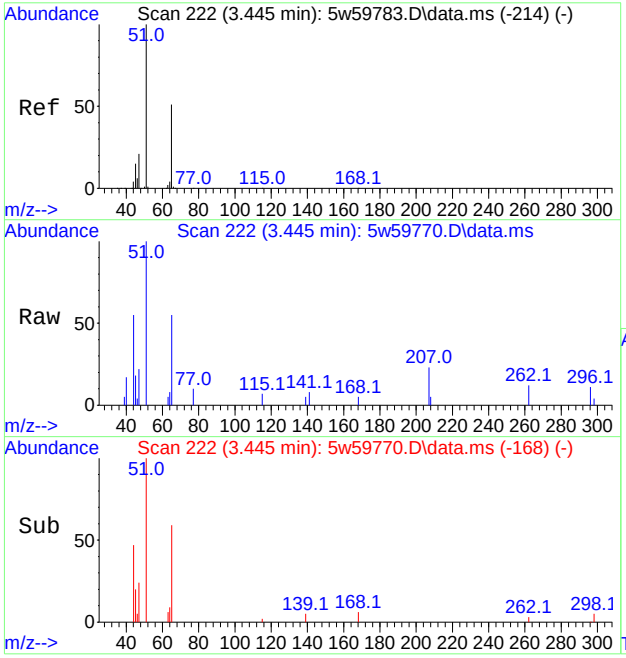


#2
FREON 115
Concen: 0.10 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:119 Resp: 3221

Ion	Ratio	Lower	Upper
119	100		
85	140.3	116.2	176.2
135	45.2	20.6	80.6

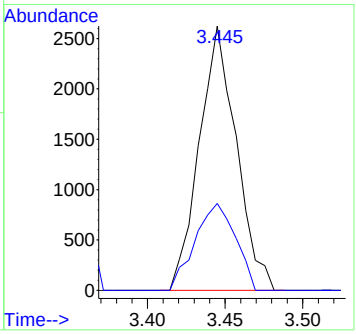


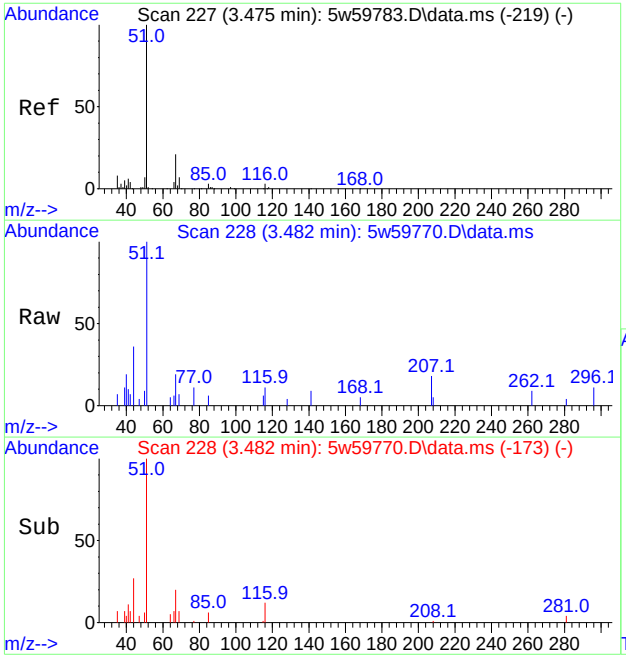


#3
FREON 152A
Concen: 0.13 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 4358

Ion	Ratio	Lower	Upper
65	100		
45	35.8	0.0	60.0

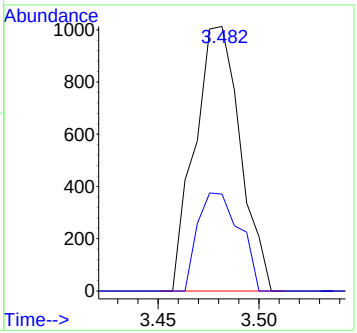


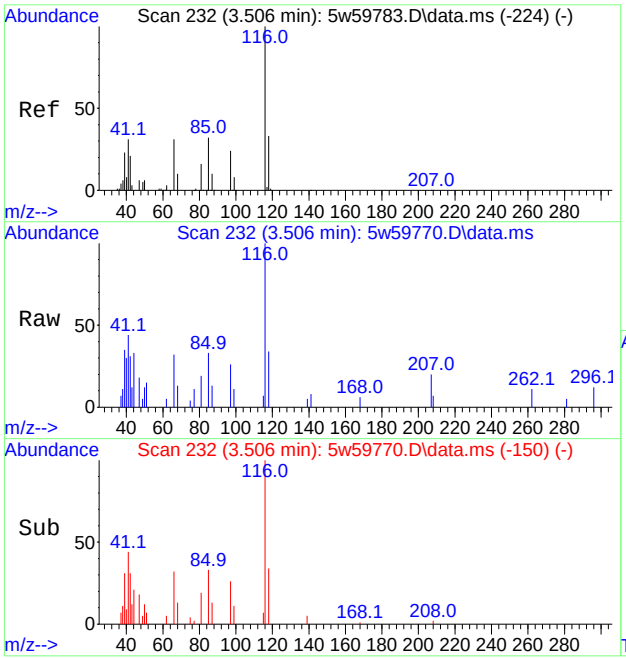


#4
CHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 1589

Ion	Ratio	Lower	Upper
67	100		
69	36.6	1.0	61.0

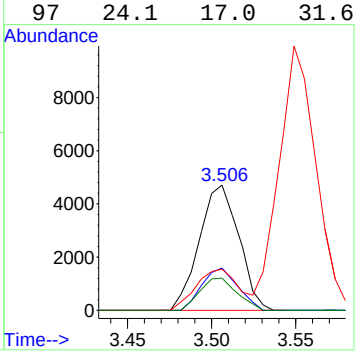


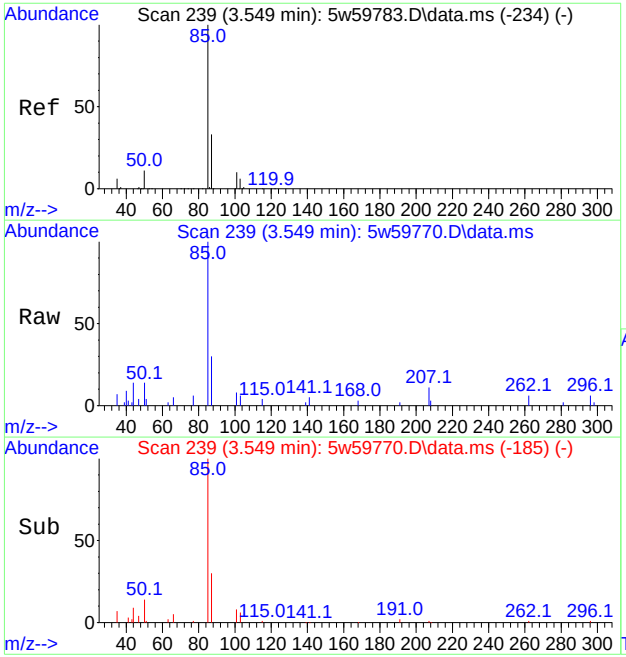


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:116 Resp: 7707

Ion	Ratio	Lower	Upper
116	100		
118	30.8	22.9	42.5
85	36.3	23.7	44.1
97	24.1	17.0	31.6

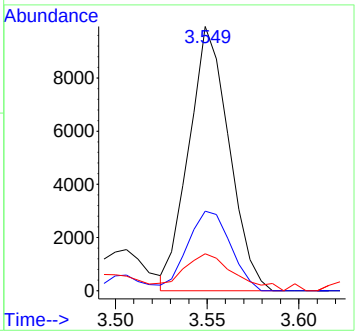


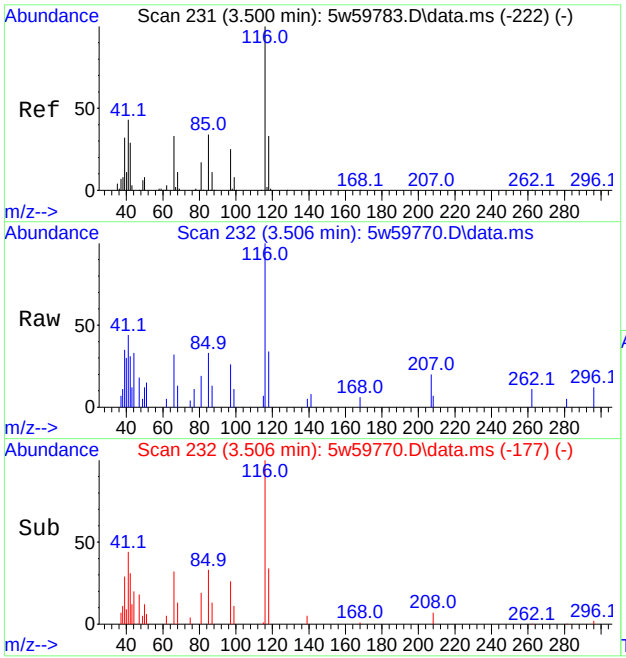


#6
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15163

Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.5	62.5
50	18.6	0.0	41.7

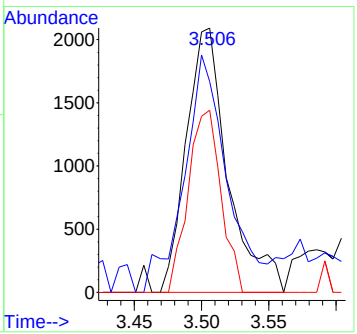


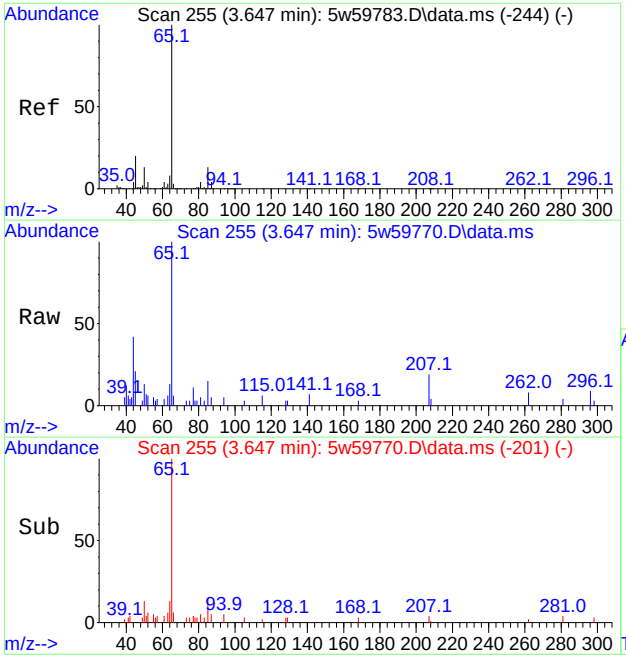


#7
PROPYLENE
Concen: 0.13 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 4519

Ion	Ratio	Lower	Upper
41	100		
39	113.7	45.1	105.1#
42	54.2	36.3	96.3

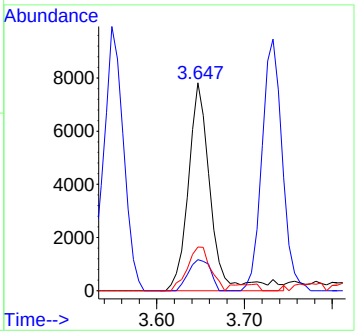


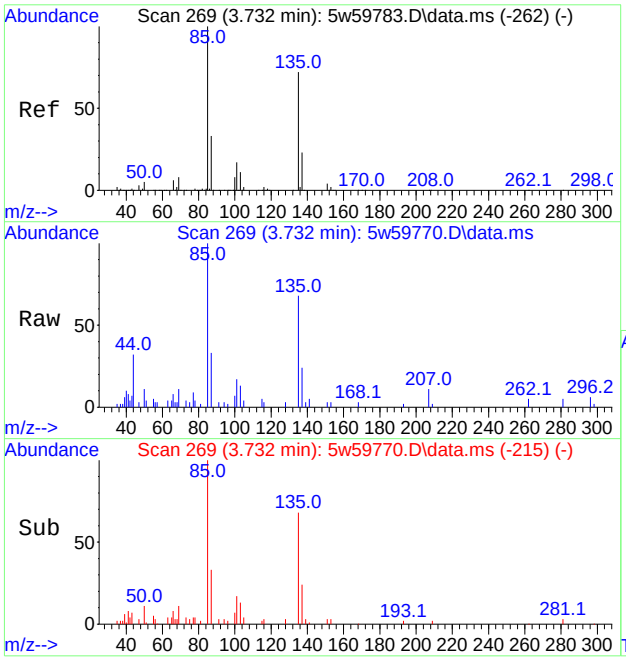


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.13 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 13862

Ion	Ratio	Lower	Upper
65	100		
85	14.7	11.5	21.3
45	21.5	14.0	26.0

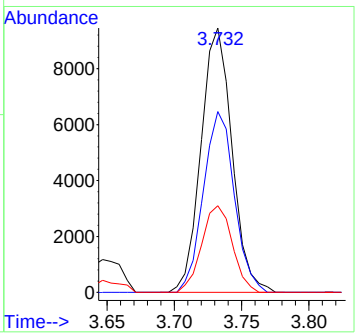


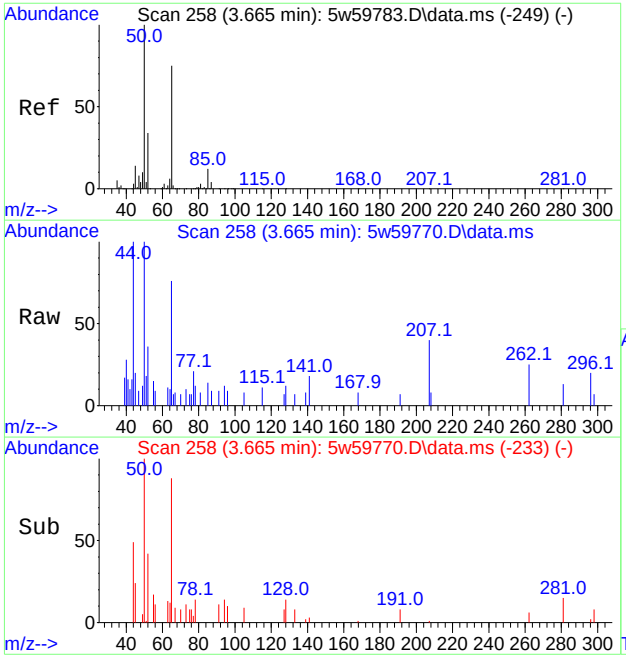


#9
FREON 114
Concen: 0.12 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15211

Ion	Ratio	Lower	Upper
85	100		
135	68.1	40.5	100.5
87	32.4	3.0	63.0

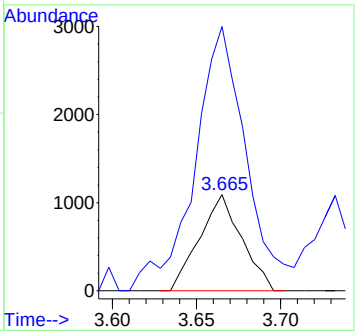


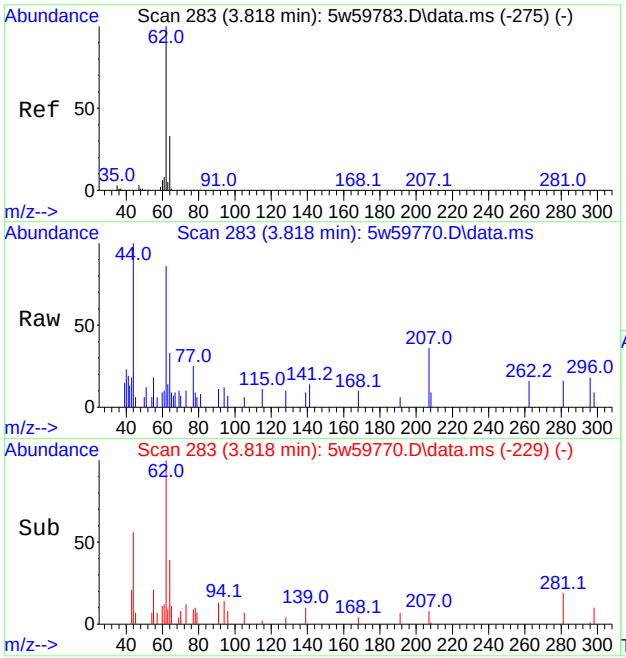


#10
CHLOROMETHANE
Concen: 0.13 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 1901

Ion	Ratio	Lower	Upper
52	100		
50	249.3	267.9	327.9#

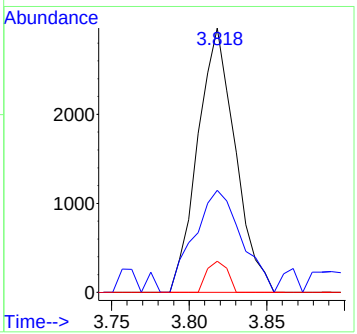


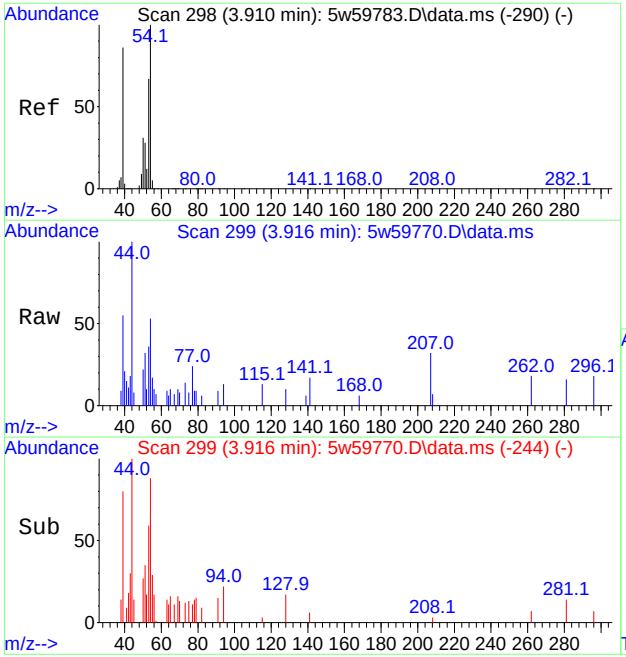


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 4992

Ion	Ratio	Lower	Upper
62	100		
64	48.5	3.6	63.6
61	6.6	0.0	38.2

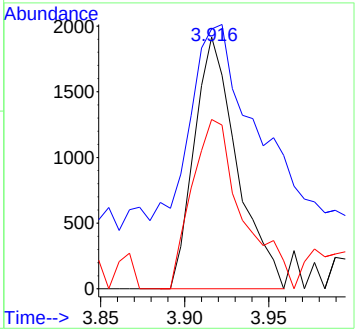


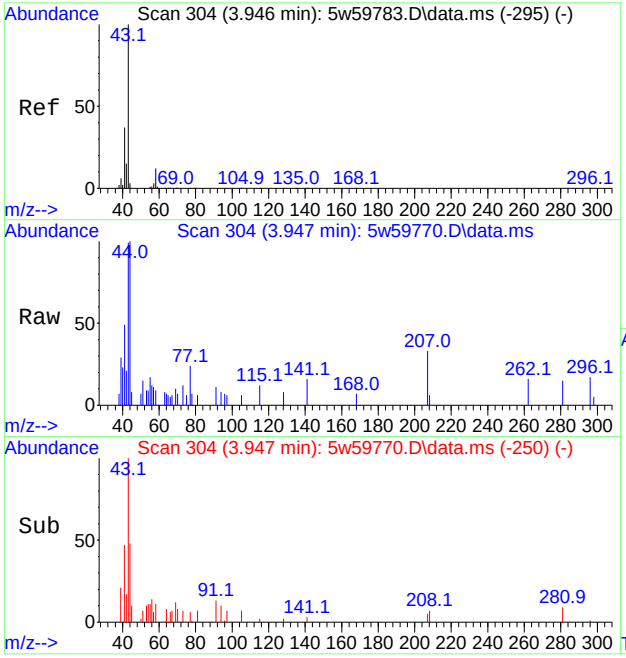


#12
1,3-BUTADIENE
Concen: 0.13 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 54 Resp: 3400

Ion	Ratio	Lower	Upper
54	100		
39	107.9	82.0	142.0
53	79.3	40.2	100.2

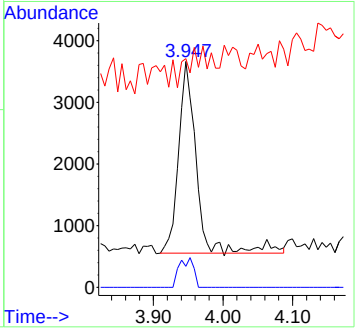


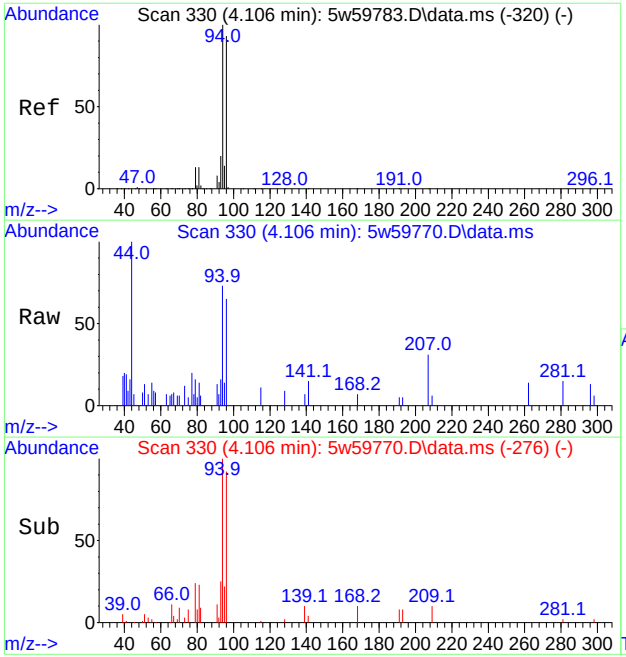


#13
n-BUTANE
Concen: 0.13 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 5567

Ion	Ratio	Lower	Upper
43	100		
58	12.4	0.0	42.6
44	0.0	0.0	34.9

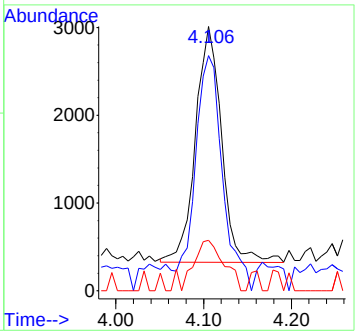


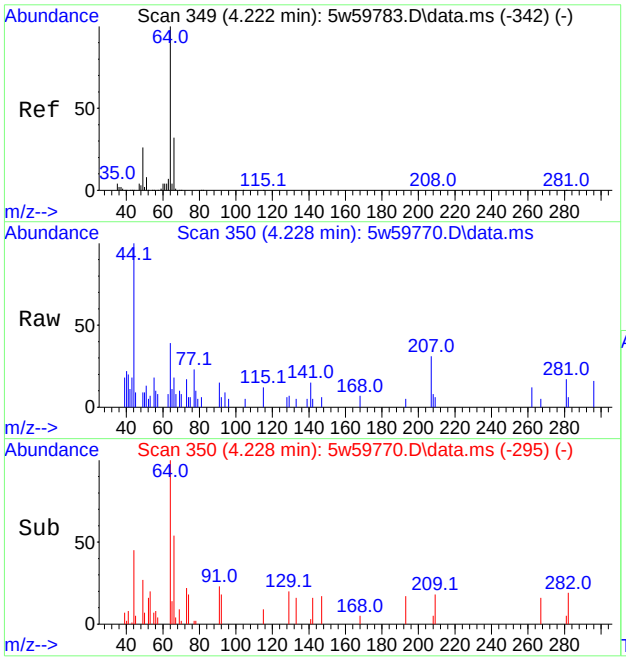


#14
BROMOMETHANE
Concen: 0.12 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 94 Resp: 5574

Ion	Ratio	Lower	Upper
94	100		
96	104.1	65.3	125.3
95	26.0	0.0	44.1

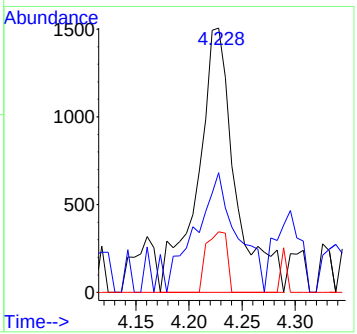


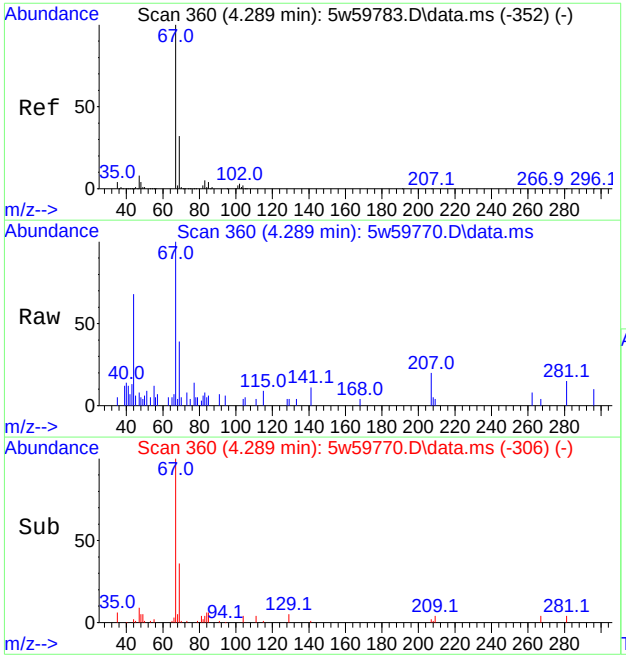


#15
CHLOROETHANE
Concen: 0.18 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 64 Resp: 3723

Ion	Ratio	Lower	Upper
64	100		
66	49.7	3.1	63.1
49	12.5	0.0	55.3

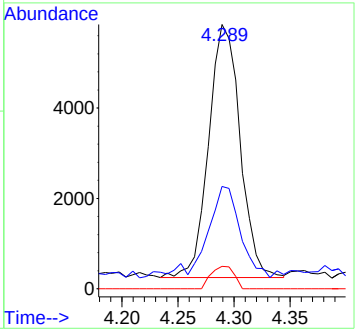


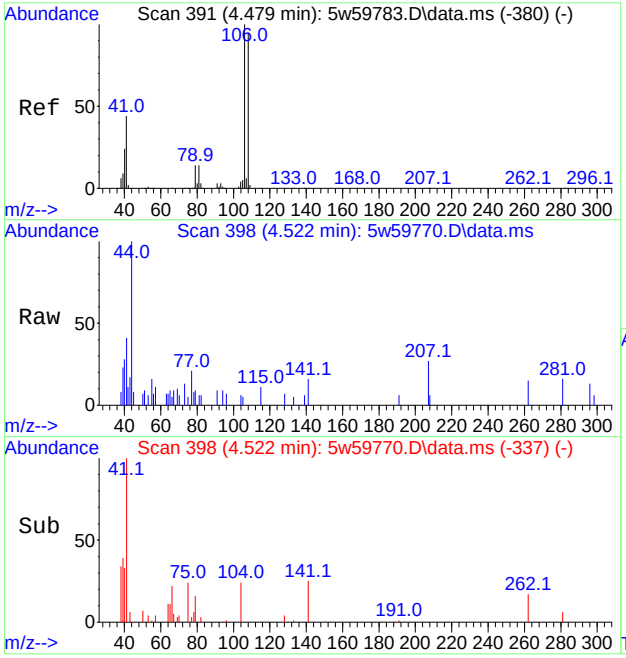


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 10972

Ion	Ratio	Lower	Upper
67	100		
69	38.6	22.7	42.3
47	6.5	5.6	10.4

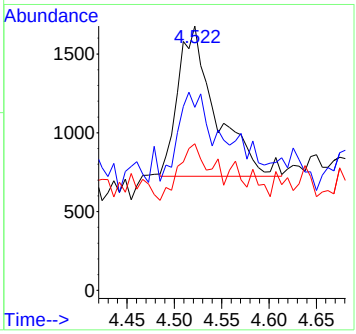


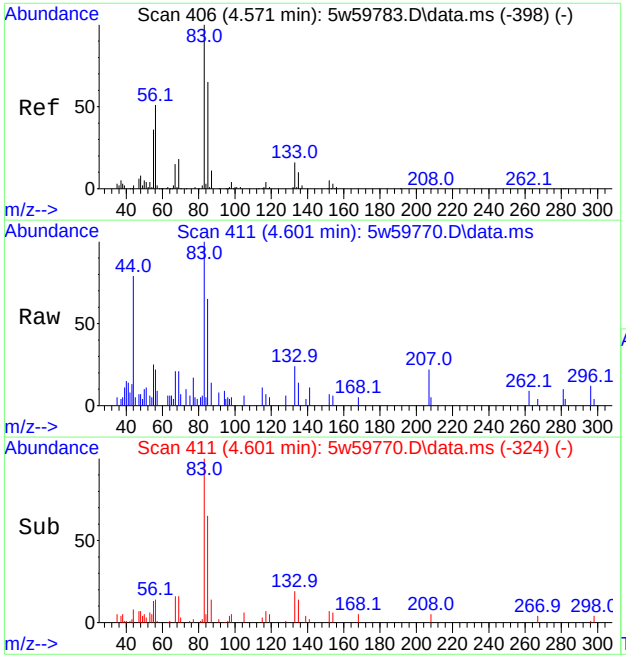


#17
ACETONITRILE
Concen: 0.10 PPBV m
RT: 4.522 min Scan# 398
Delta R.T. 0.043 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 2670

Ion	Ratio	Lower	Upper
41	100		
40	100.2	37.9	70.5#
39	46.6	13.4	24.8#

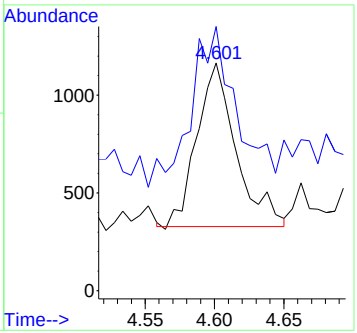


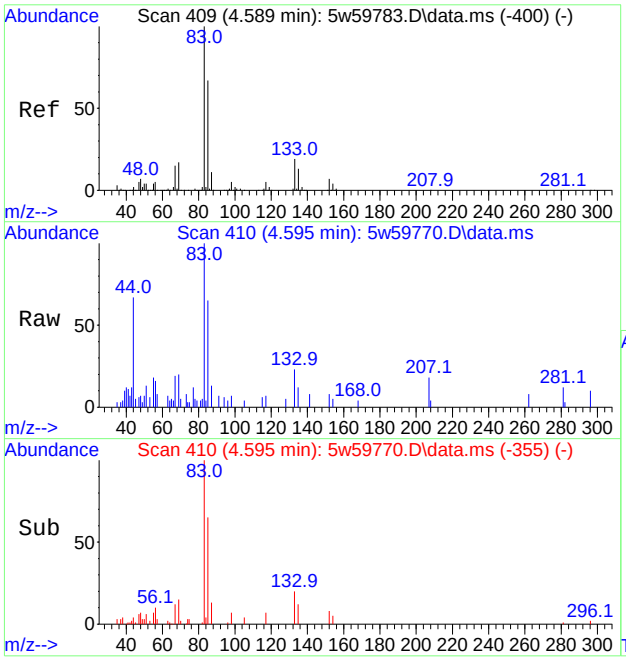


#18
ACROLEIN
Concen: 0.11 PPBV m
RT: 4.601 min Scan# 411
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 56 Resp: 1642

Ion	Ratio	Lower	Upper
56	100		
55	106.4	46.6	86.6#

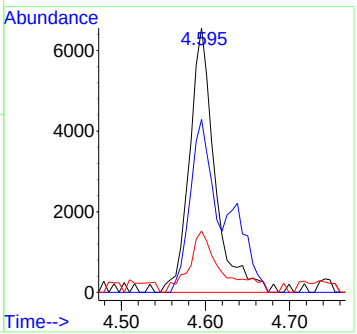


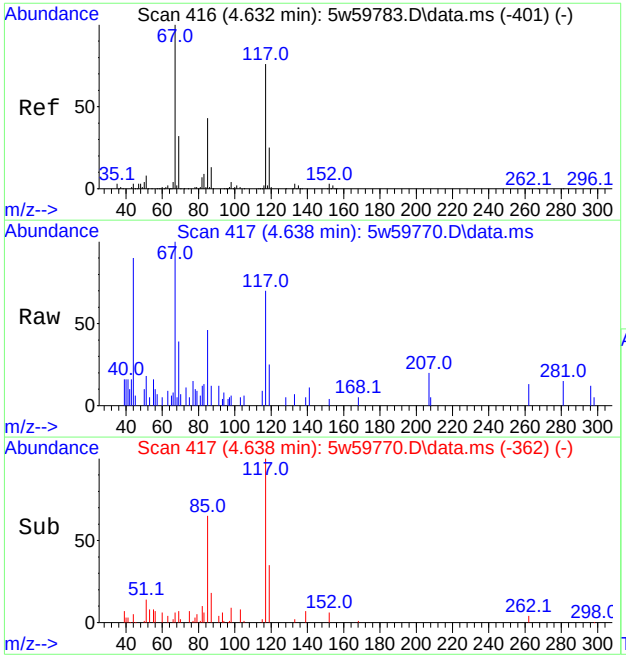


#19
FREON 123
Concen: 0.13 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 13808

Ion	Ratio	Lower	Upper
83	100		
85	60.2	34.0	94.0
133	28.7	0.0	50.7

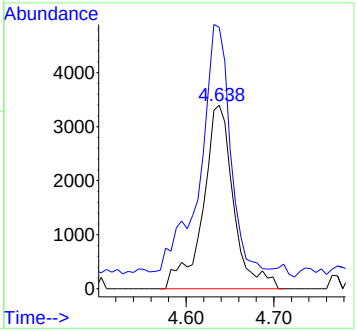


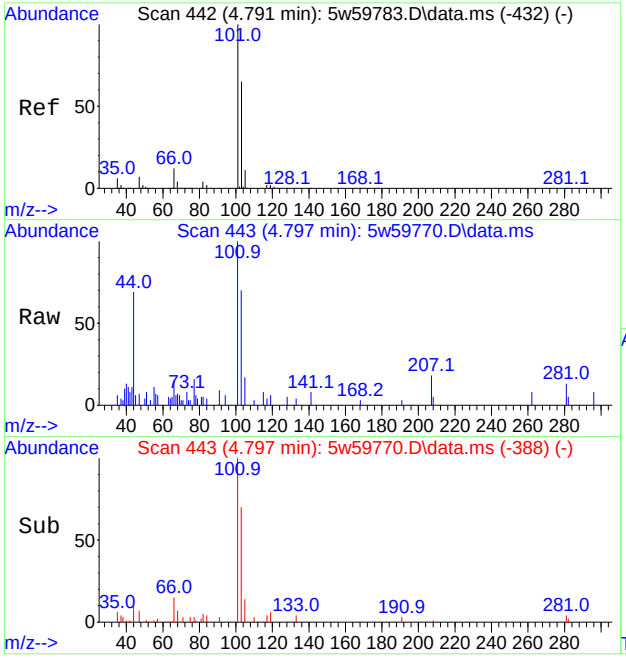


#20
FREON 123A
Concen: 0.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 8167

Ion	Ratio	Lower	Upper
117	100		
67	143.7	114.6	174.6

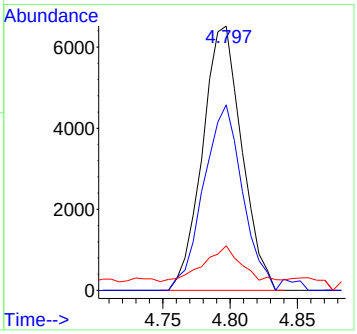


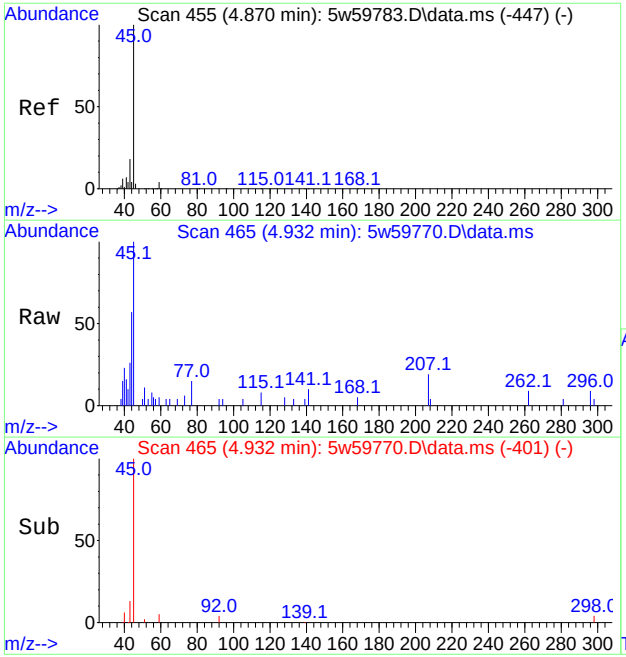


#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:101 Resp: 13248

Ion	Ratio	Lower	Upper
101	100		
103	69.6	35.0	95.0
105	25.5	0.0	40.7

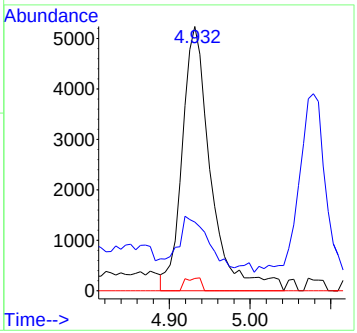


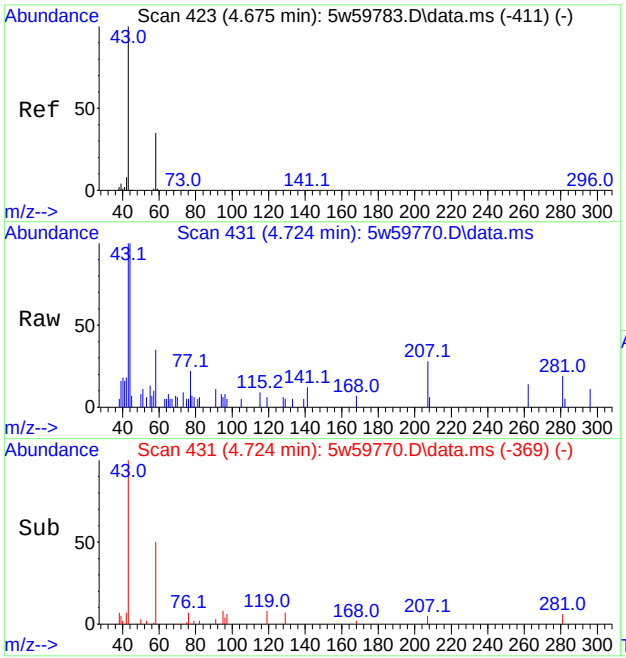


#22
ISOPROPYL ALCOHOL
Concen: 0.15 PPBV
RT: 4.932 min Scan# 465
Delta R.T. 0.062 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 12850

Ion	Ratio	Lower	Upper
45	100		
43	26.0	0.0	47.8
59	4.7	0.0	34.1

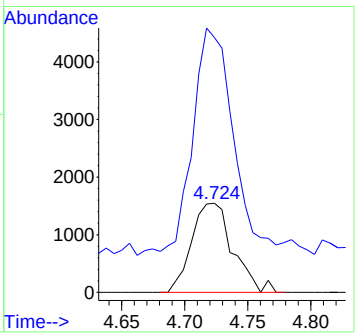


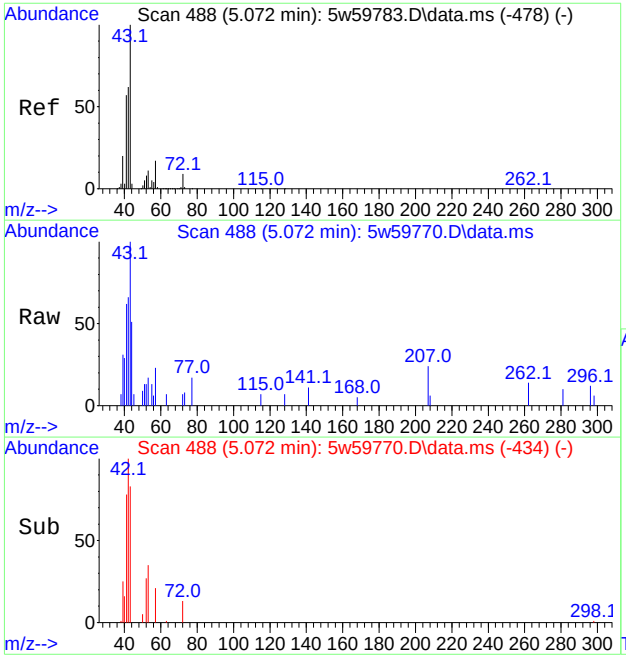


#23
ACETONE
Concen: 0.18 PPBV
RT: 4.724 min Scan# 431
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 3503

Ion	Ratio	Lower	Upper
58	100		
43	258.5	252.3	312.3

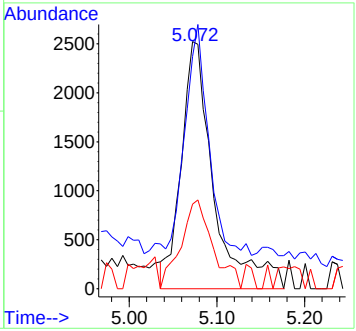


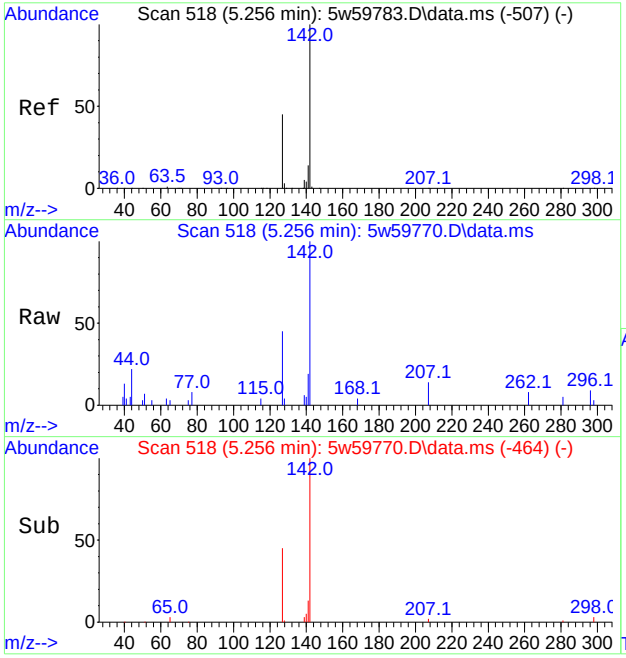


#24
PENTANE
Concen: 0.15 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 42 Resp: 6510

Ion	Ratio	Lower	Upper
42	100		
41	160.1	62.3	122.3#
57	35.3	0.0	57.7

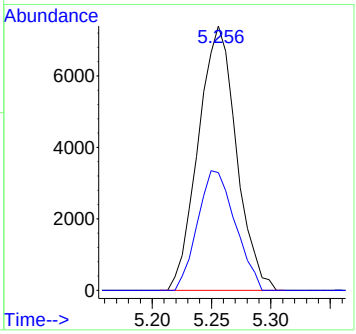


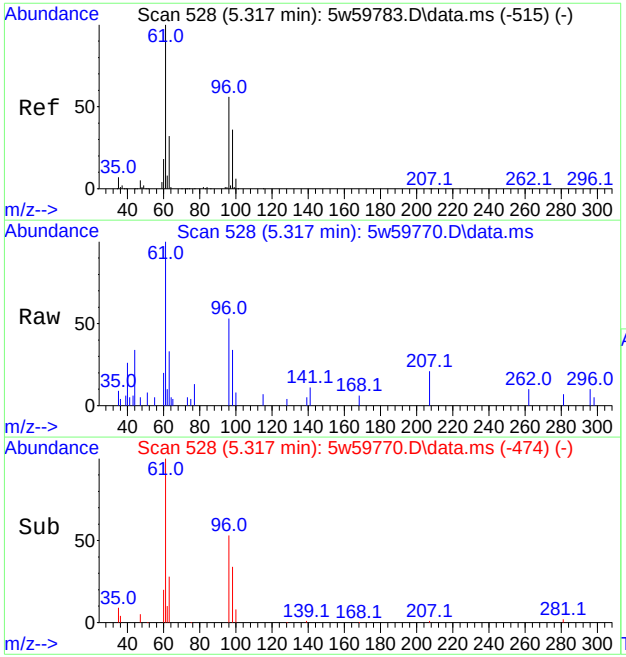


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:142 Resp: 16474

Ion	Ratio	Lower	Upper
142	100		
127	44.7	16.0	76.0

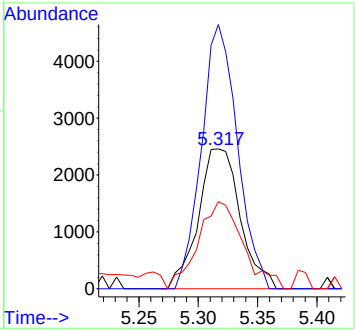


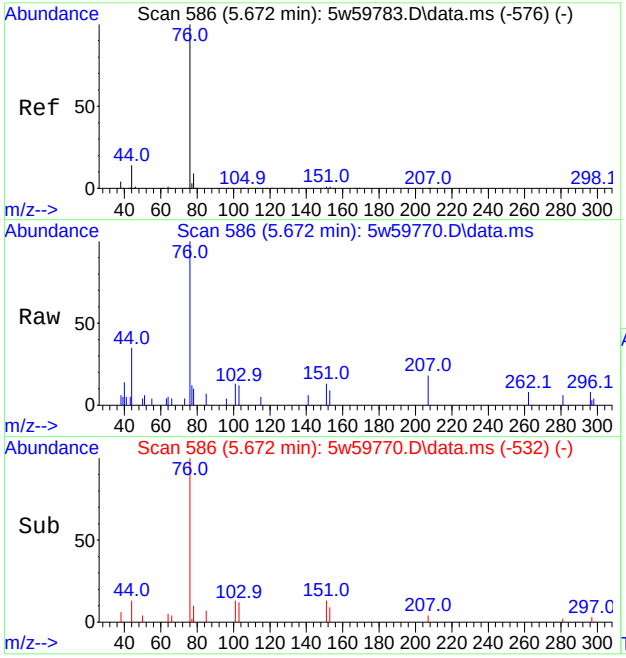


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6043

Ion	Ratio	Lower	Upper
96	100		
61	161.4	148.5	208.5
63	66.7	27.4	87.4

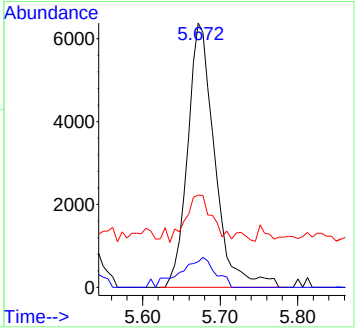


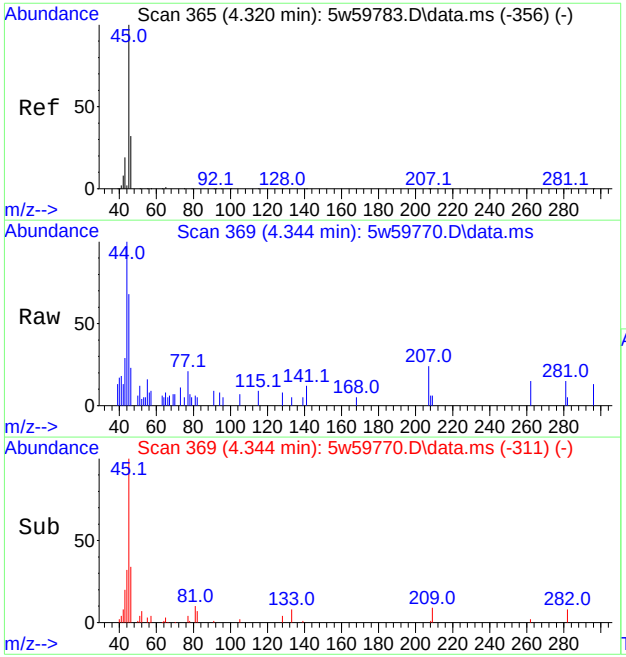


#27
CARBON DISULFIDE
Concen: 0.12 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 15443

Ion	Ratio	Lower	Upper
76	100		
78	14.8	0.0	41.5
44	19.6	0.0	44.6

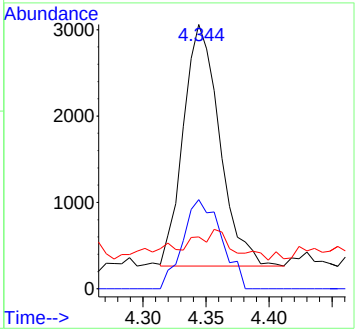


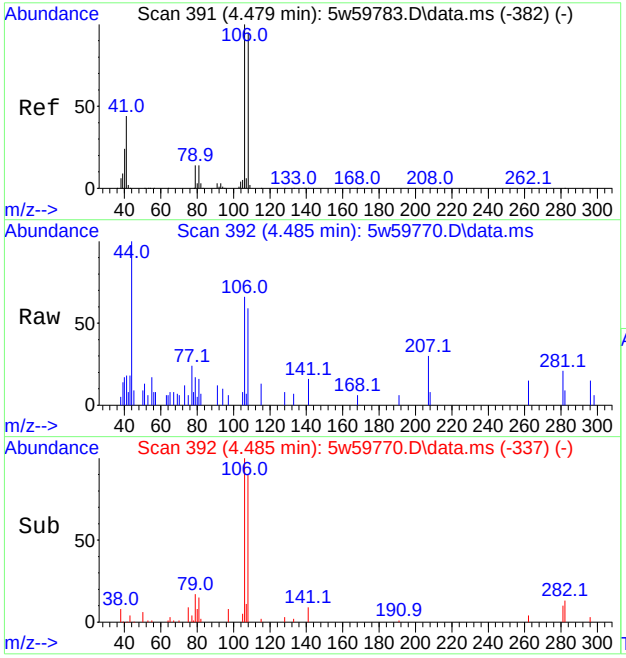


#28
ETHANOL
Concen: 0.26 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 5592

Ion	Ratio	Lower	Upper
45	100		
46	39.3	2.0	62.0
42	12.5	0.0	38.5

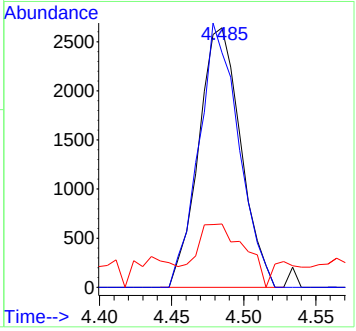


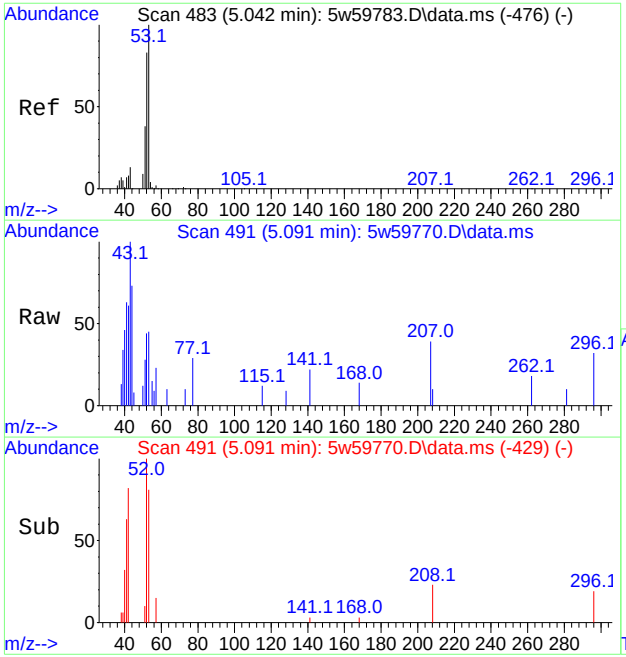


#29
BROMOETHENE
Concen: 0.11 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 5356

Ion	Ratio	Lower	Upper
106	100		
108	96.6	65.6	125.6
81	28.1	0.0	43.9

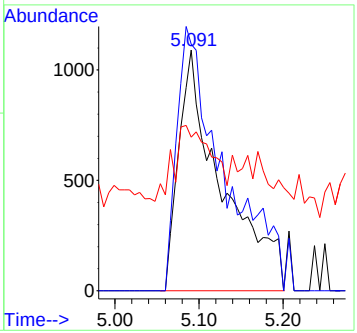


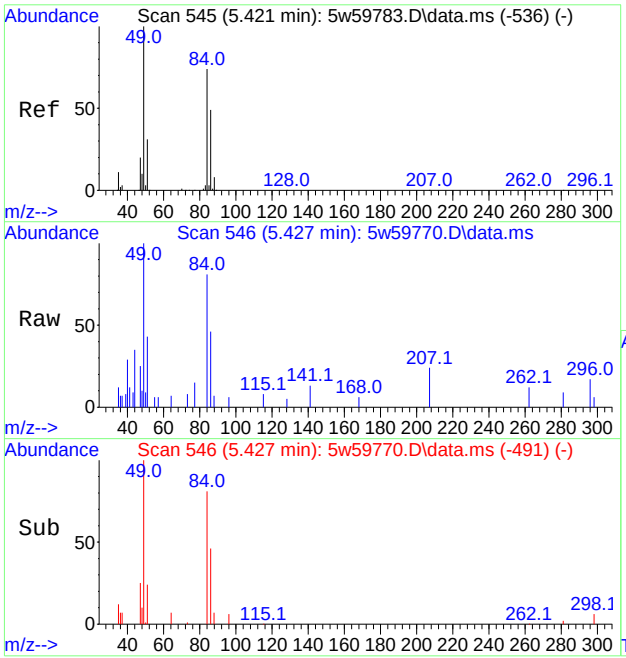


#30
ACRYLONITRILE
Concen: 0.12 PPBV
RT: 5.091 min Scan# 491
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 3869

Ion	Ratio	Lower	Upper
52	100		
53	121.0	85.8	159.4
51	65.0	32.3	60.1#

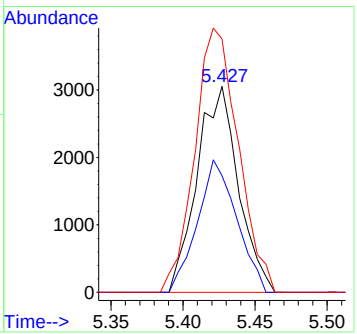


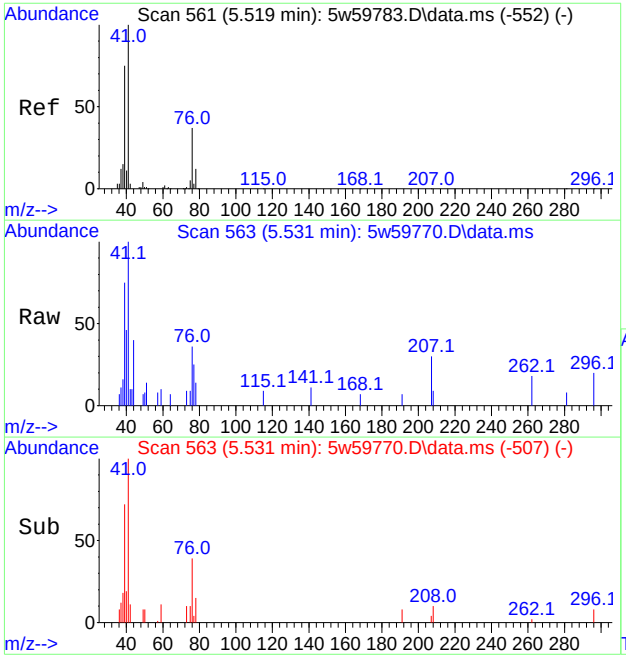


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 6090

Ion	Ratio	Lower	Upper
84	100		
86	61.0	35.2	95.2
49	135.4	105.3	165.3

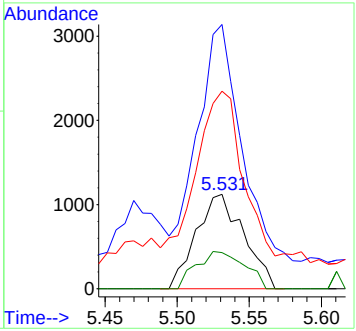


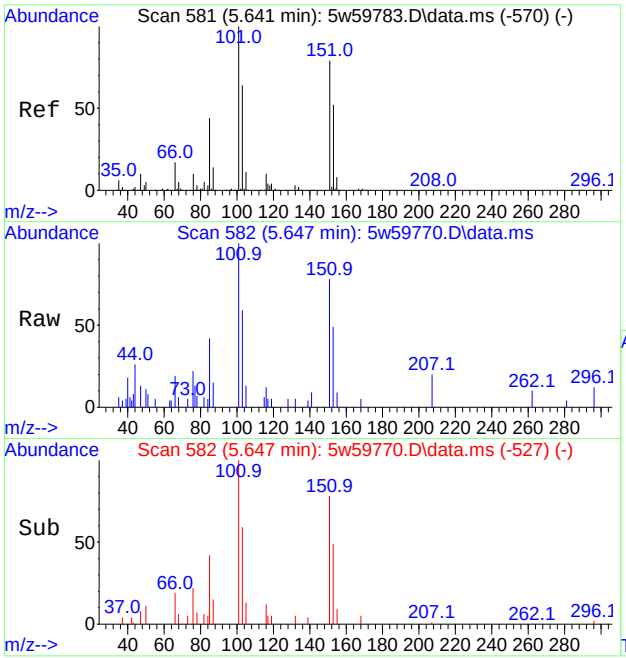


#32
3-CHLOROPROPENE
Concen: 0.11 PPBV
RT: 5.531 min Scan# 563
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 2581

Ion	Ratio	Lower	Upper
76	100		
41	416.2	240.8	300.8#
39	186.5	173.6	233.6
78	40.1	2.8	62.8

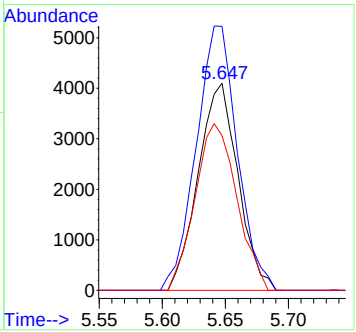


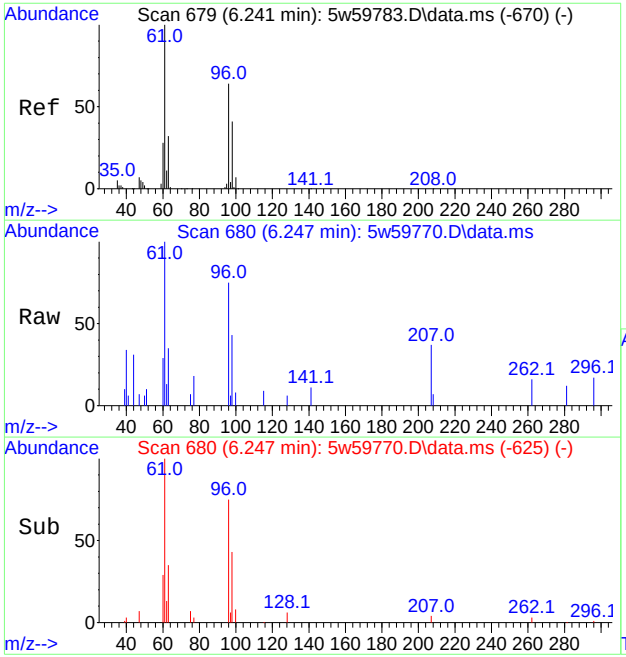


#33
FREON 113
Concen: 0.10 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:151 Resp: 8991

Ion	Ratio	Lower	Upper
151	100		
101	131.6	97.5	157.5
103	84.2	52.5	112.5

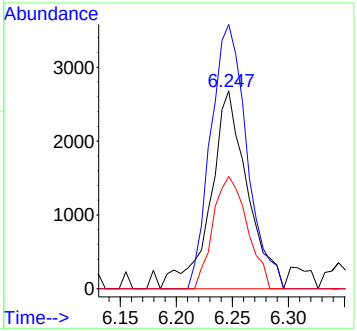


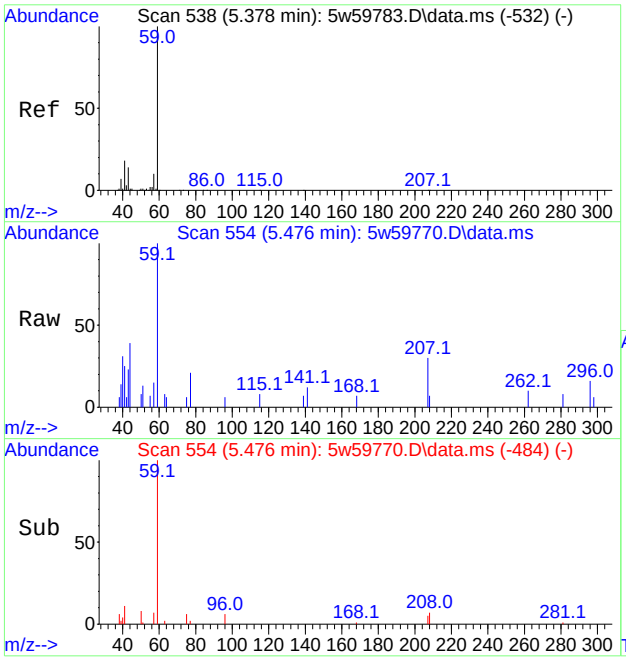


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6117

Ion	Ratio	Lower	Upper
96	100		
61	131.9	126.4	186.4
98	52.8	34.1	94.1

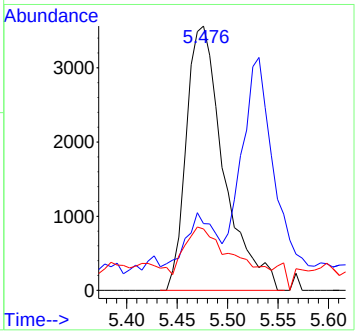


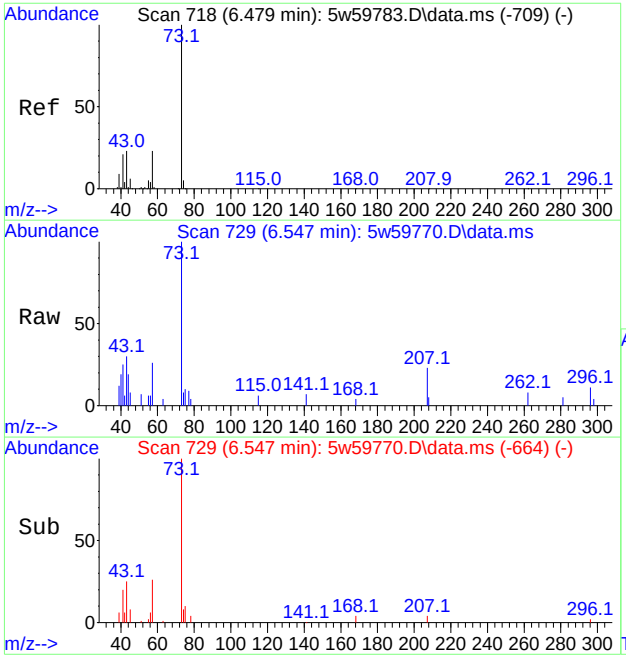


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.09 PPBV
RT: 5.476 min Scan# 554
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 9217

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	36.4	0.0	44.1

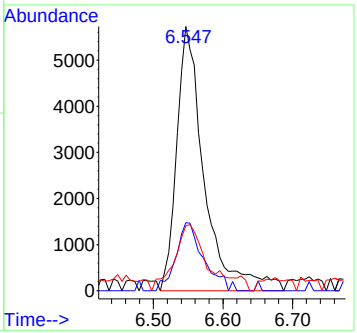


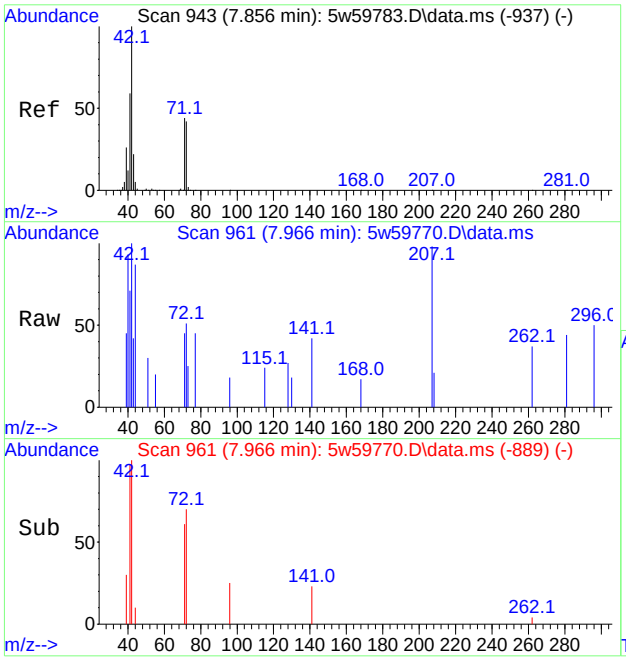


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.12 PPBV
RT: 6.547 min Scan# 729
Delta R.T. 0.068 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 73 Resp: 15796

Ion	Ratio	Lower	Upper
73	100		
57	25.8	0.0	53.1
41	30.7	0.0	50.6

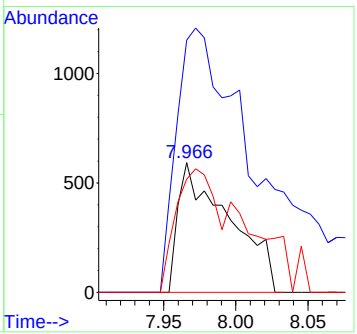


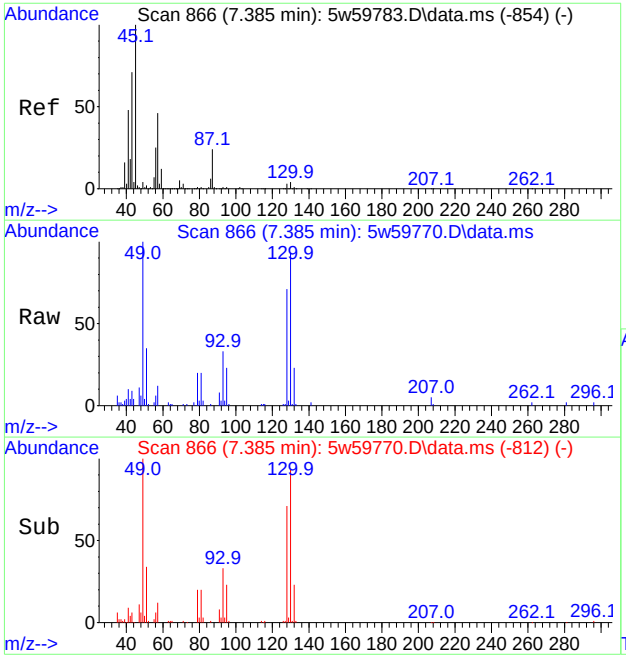


#37
TETRAHYDROFURAN
Concen: 0.08 PPBV
RT: 7.966 min Scan# 961
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 1469

Ion	Ratio	Lower	Upper
72	100		
42	342.0	202.4	262.4#
71	131.0	71.1	131.1

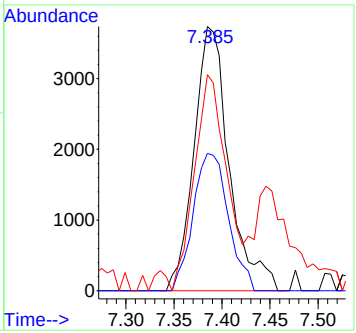


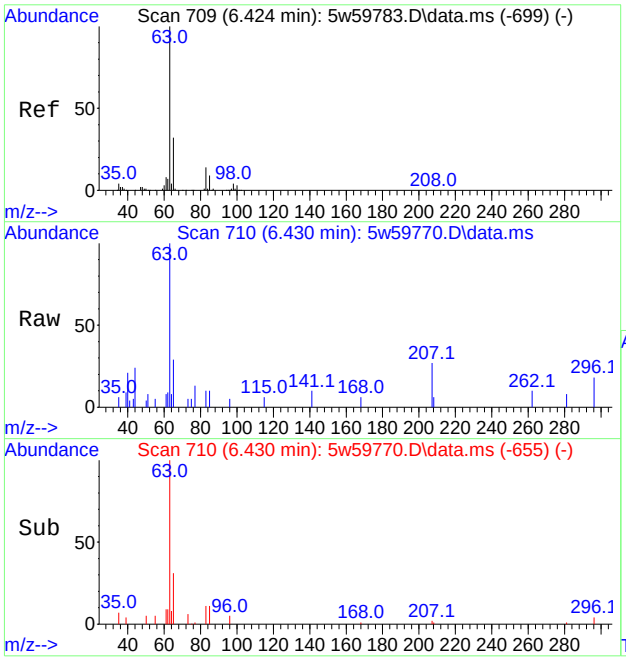


#38
HEXANE
Concen: 0.13 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9533

Ion	Ratio	Lower	Upper
57	100		
56	52.0	25.9	85.9
41	80.5	74.7	134.7

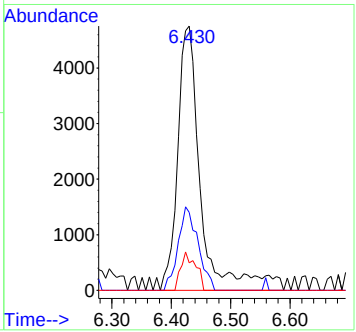


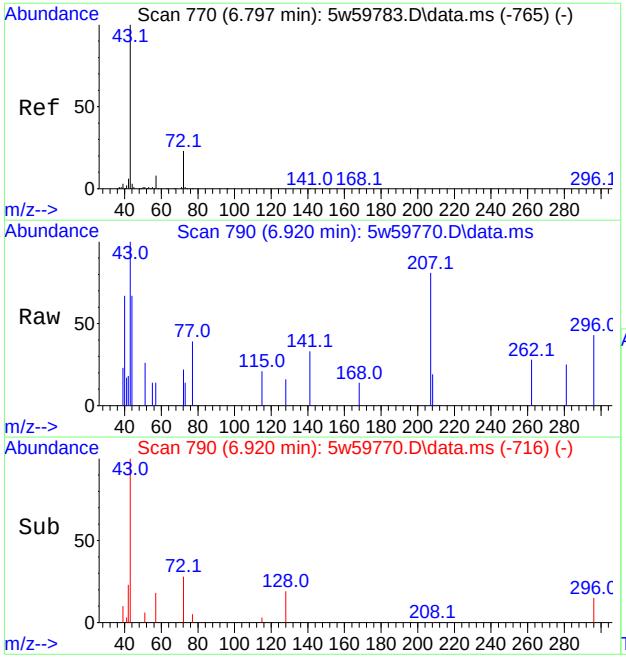


#40
1,1-DICHLOROETHANE
Concen: 0.14 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 12904

Ion	Ratio	Lower	Upper
63	100		
65	27.4	1.7	61.7
83	9.4	0.0	43.5

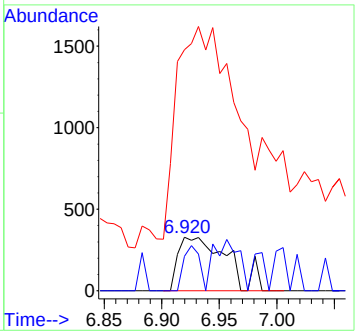


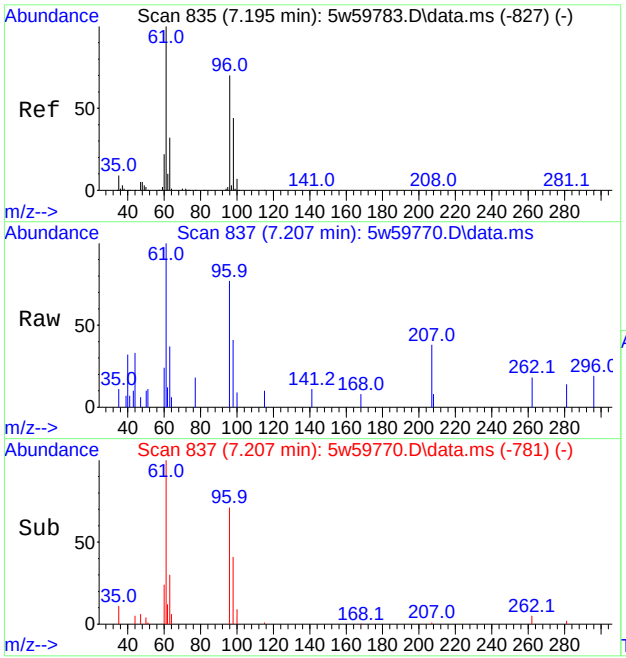


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV m
RT: 6.920 min Scan# 790
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 956

Ion	Ratio	Lower	Upper
72	100		
57	64.6	4.8	64.8
43	450.9	415.9	475.9

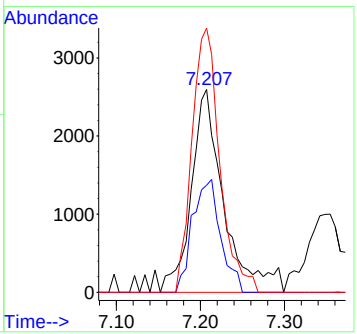


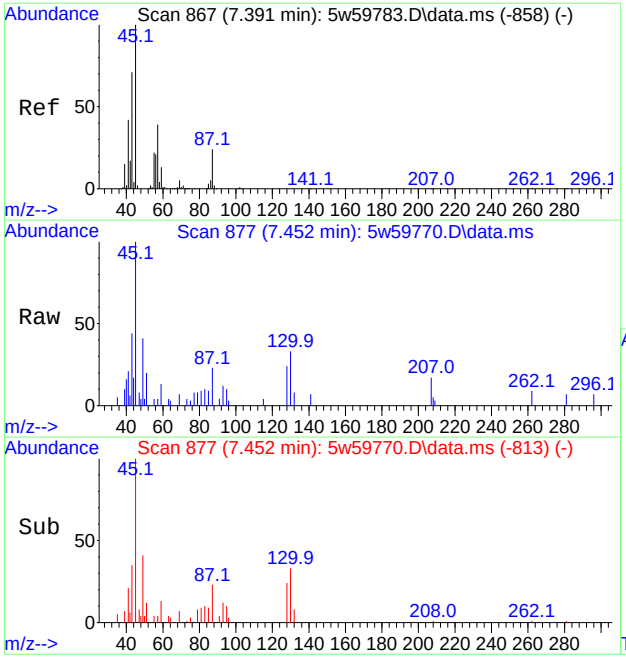


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.13 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6979

Ion	Ratio	Lower	Upper
96	100		
98	48.0	34.0	94.0
61	111.6	111.5	171.5

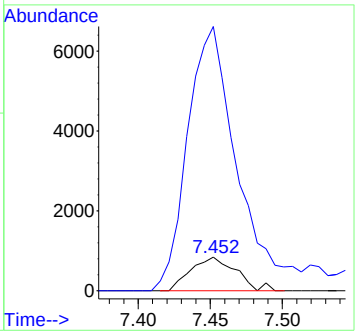


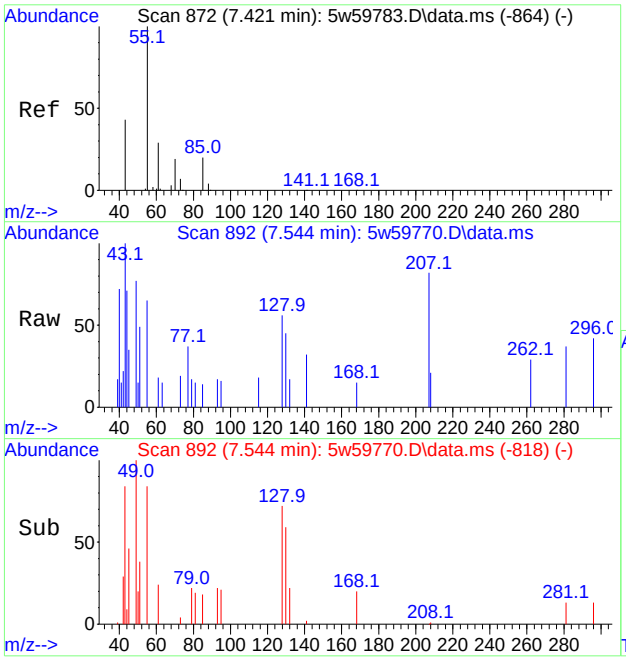


#43
DIISOPROPYL ETHER
Concen: 0.09 PPBV
RT: 7.452 min Scan# 877
Delta R.T. 0.061 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 1846

Ion	Ratio	Lower	Upper
59	100		
45	973.3	720.9	780.9#

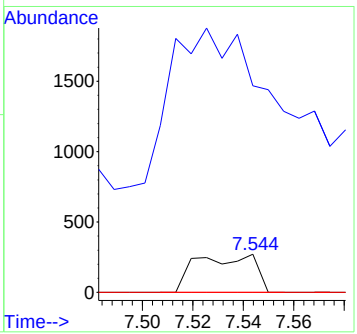


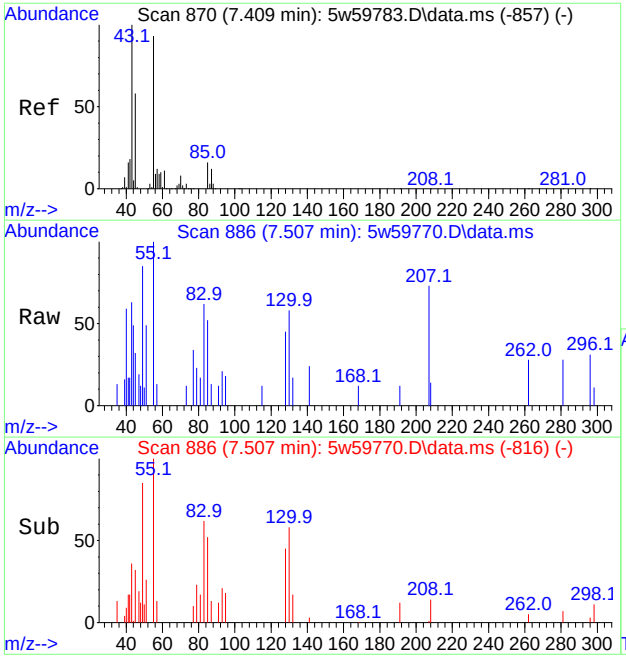


#44
ETHYL ACETATE
Concen: 0.03 PPBV m
RT: 7.544 min Scan# 892
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 61 Resp: 434

Ion	Ratio	Lower	Upper
61	100		
43	829.0	560.5	620.5#
88	0.0	4.5	64.5#

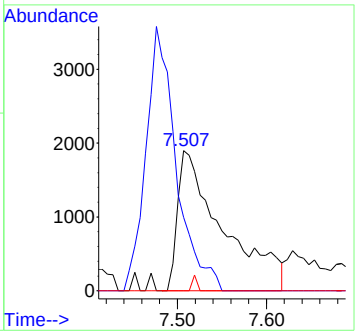


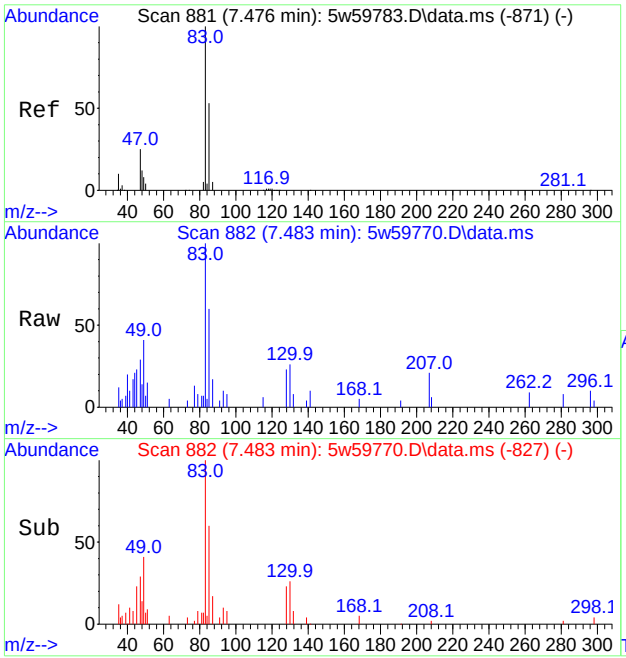


#45
METHYL ACRYLATE
Concen: 0.08 PPBV m
RT: 7.507 min Scan# 886
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 55 Resp: 6719

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

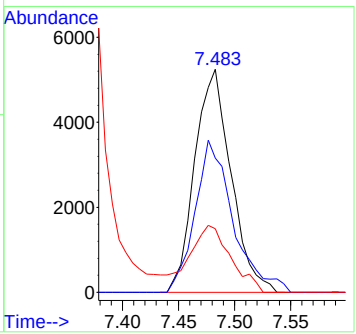


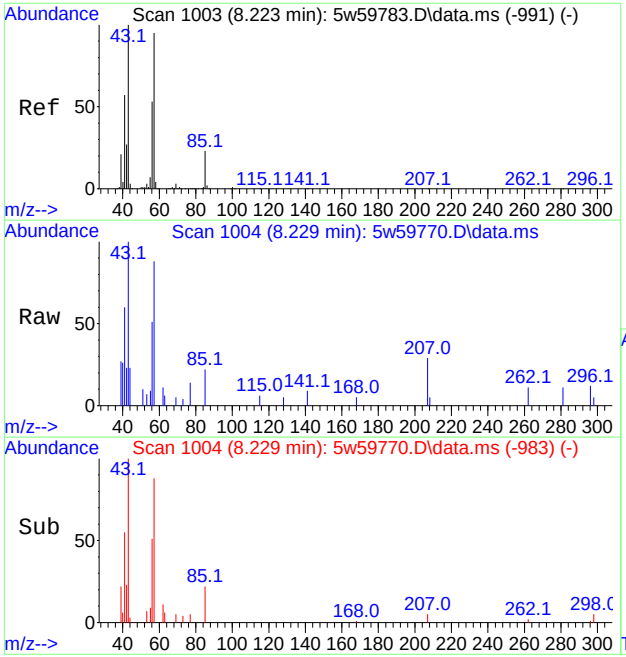


#46
CHLOROFORM
Concen: 0.11 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 11842

Ion	Ratio	Lower	Upper
83	100		
85	71.3	35.6	95.6
47	32.6	0.0	55.2

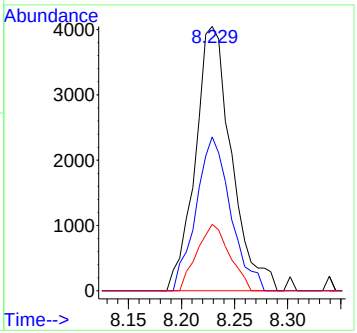


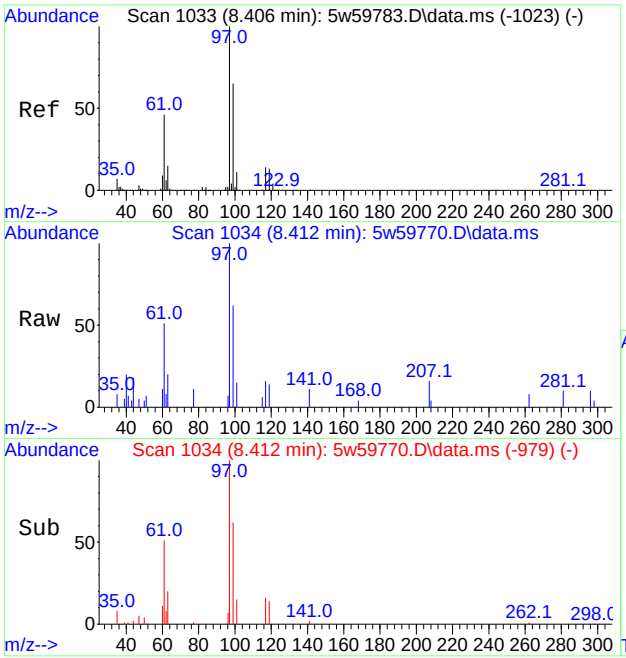


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9616

Ion	Ratio	Lower	Upper
57	100		
56	55.5	26.5	86.5
85	22.6	0.0	53.8

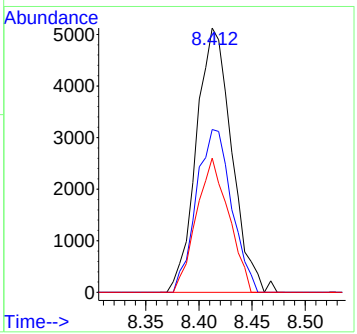


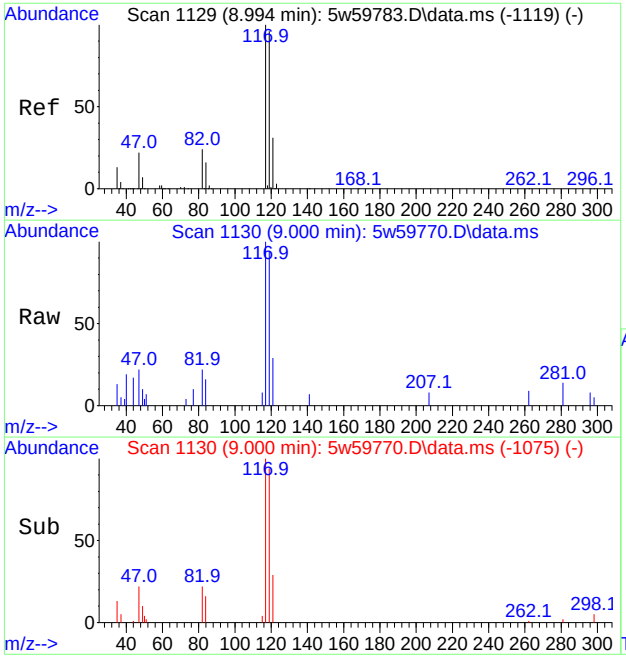


#48
1,1,1-TRICHLOROETHANE
Concen: 0.11 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 97 Resp: 11905

Ion	Ratio	Lower	Upper
97	100		
99	61.5	34.8	94.8
61	46.5	15.8	75.8

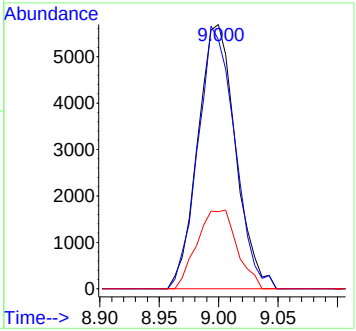


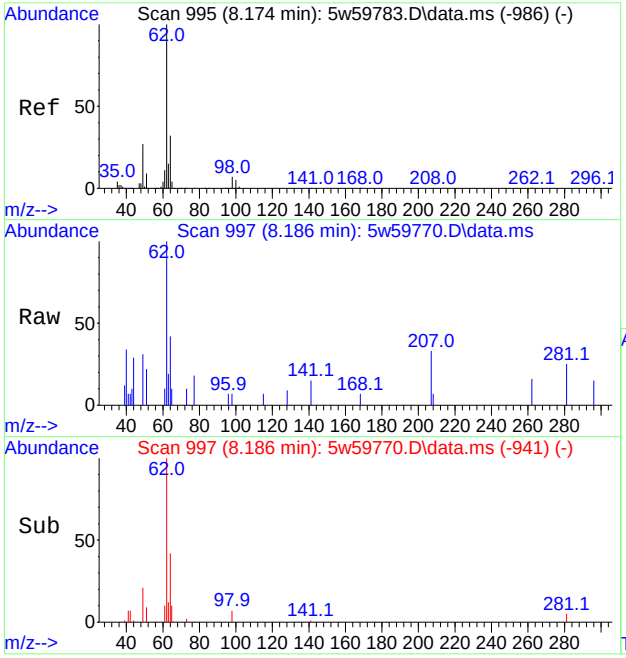


#49
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 12586

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.4	1.3	61.3

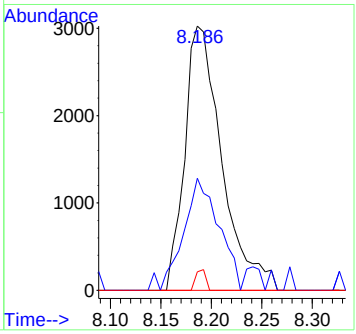


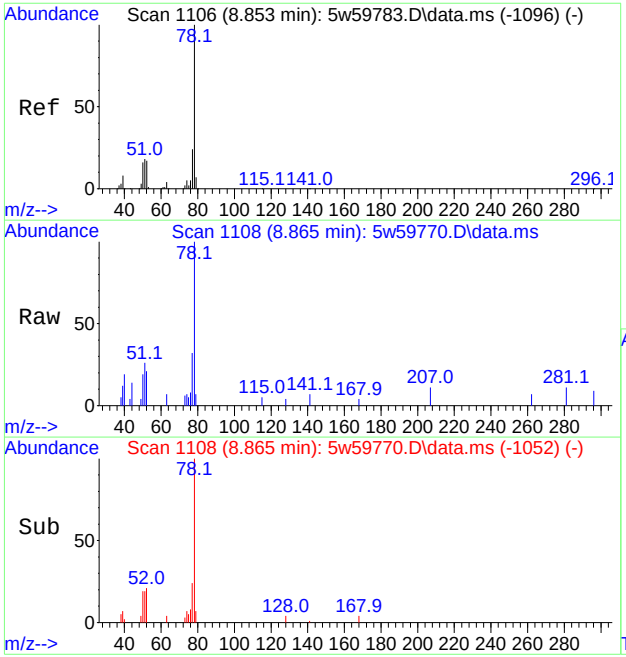


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 7761

Ion	Ratio	Lower	Upper
62	100		
64	40.9	2.3	62.3
98	2.1	0.0	36.9

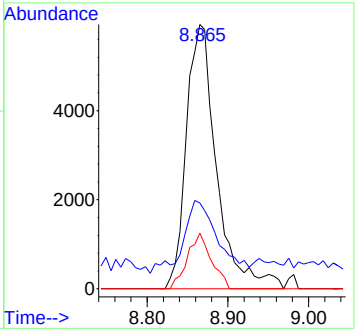


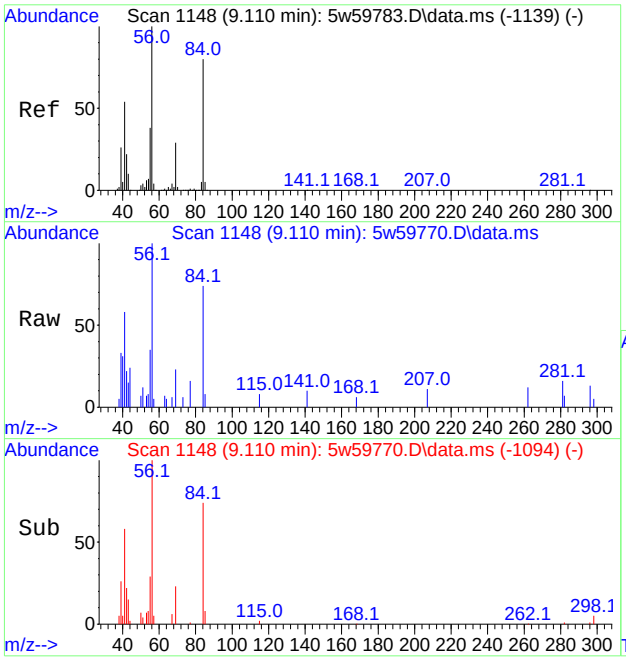


#52
BENZENE
Concen: 0.11 PPBV
RT: 8.865 min Scan# 1108
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 78 Resp: 15430

Ion	Ratio	Lower	Upper
78	100		
77	31.0	0.0	53.8
52	16.7	0.0	46.9

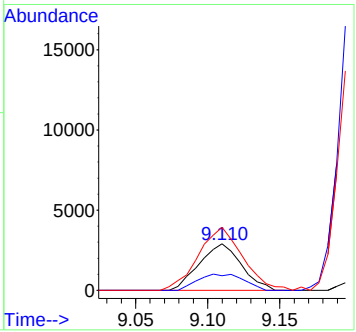


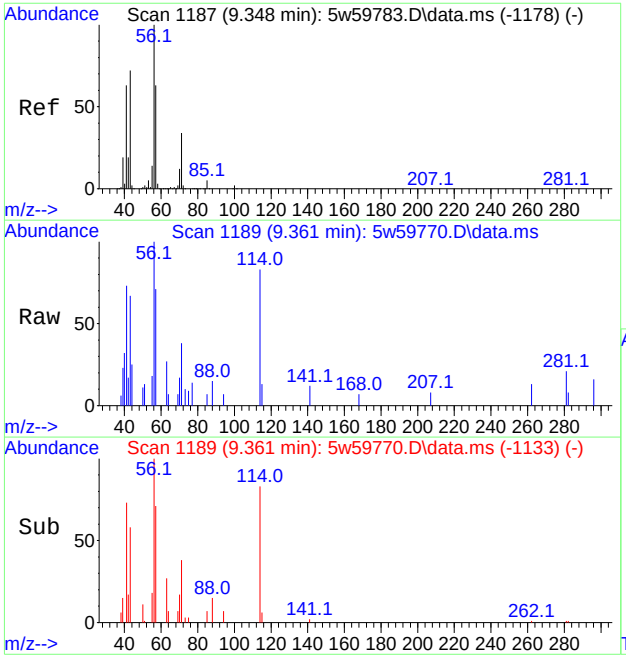


#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 5905

Ion	Ratio	Lower	Upper
84	100		
69	38.2	6.9	66.9
56	142.3	98.2	158.2

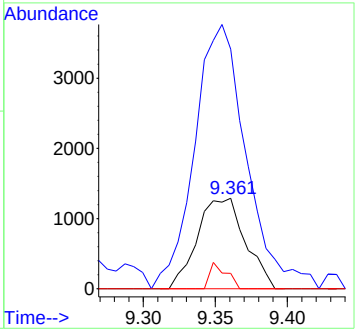


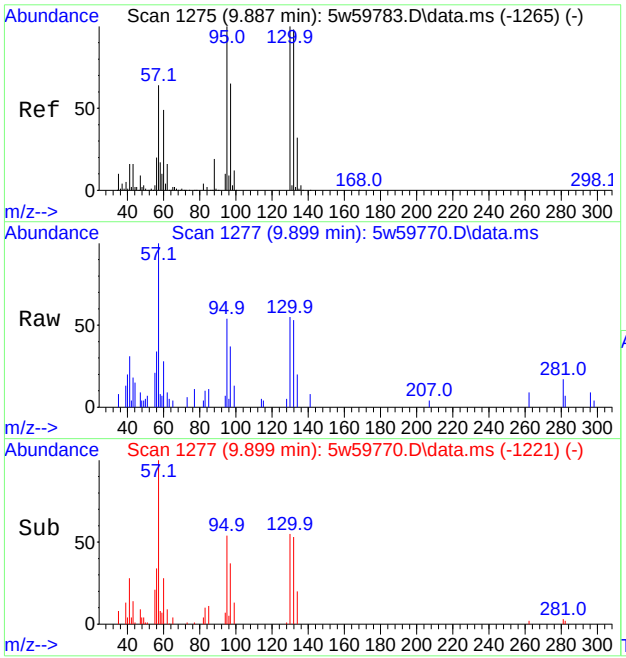


#54
2,3-DIMETHYLPENTANE
Concen: 0.10 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 71 Resp: 2989

Ion	Ratio	Lower	Upper
71	100		
56	315.8	264.6	324.6
85	10.1	0.0	45.3

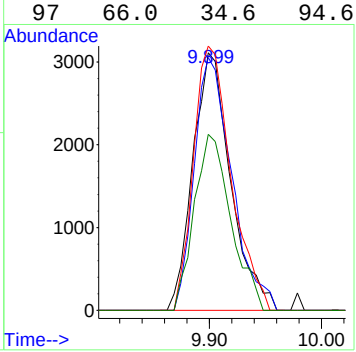


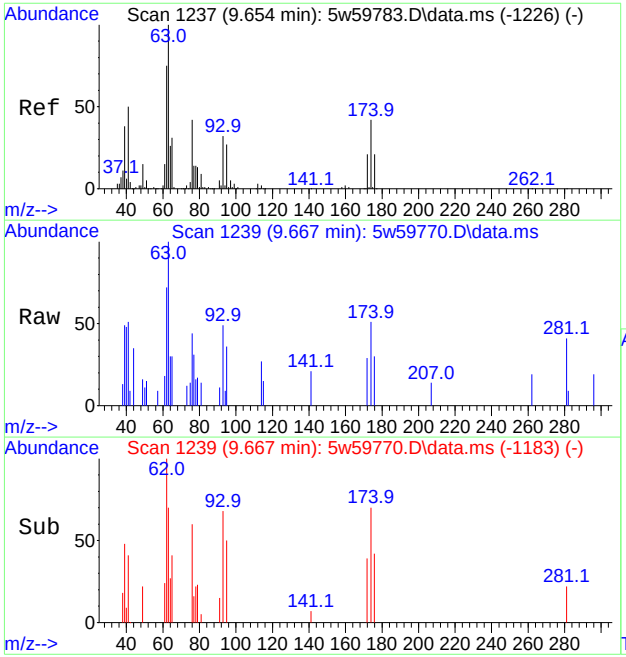


#55
TRICHLOROETHYLENE
Concen: 0.10 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 95 Resp: 7303

Ion	Ratio	Lower	Upper
95	100		
132	97.0	69.0	129.0
130	101.9	70.6	130.6
97	66.0	34.6	94.6

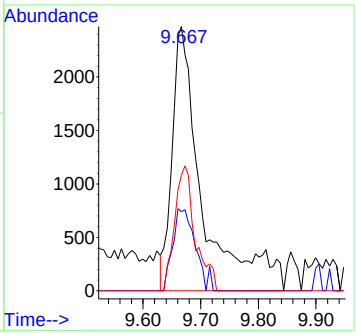


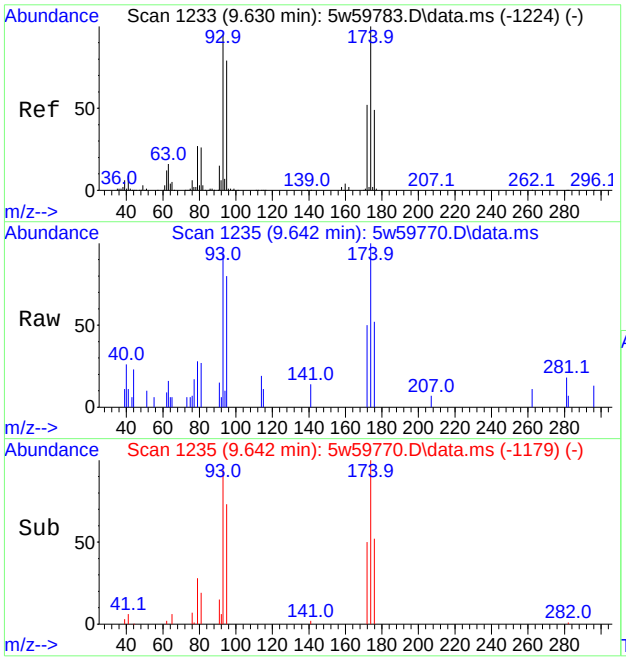


#56
1,2-DICHLOROPROPANE
Concen: 0.15 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 9099

Ion	Ratio	Lower	Upper
63	100		
65	22.9	0.5	60.5
76	31.9	11.5	71.5

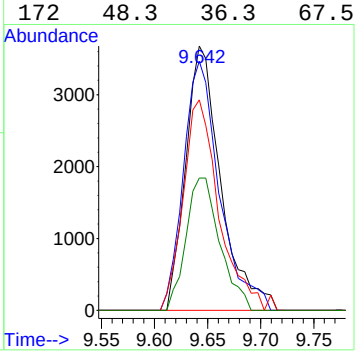


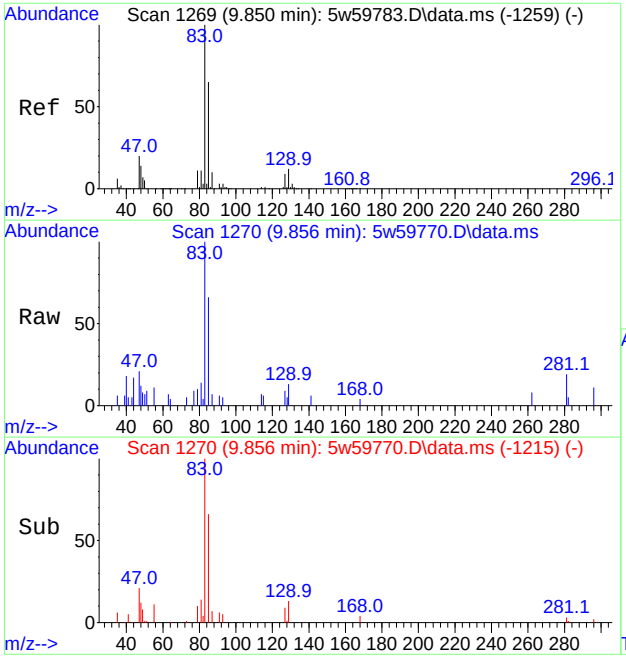


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:174 Resp: 8479

Ion	Ratio	Lower	Upper
174	100		
93	96.7	65.0	120.6
95	81.4	54.5	101.1
172	48.3	36.3	67.5

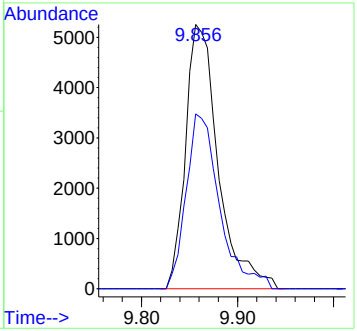


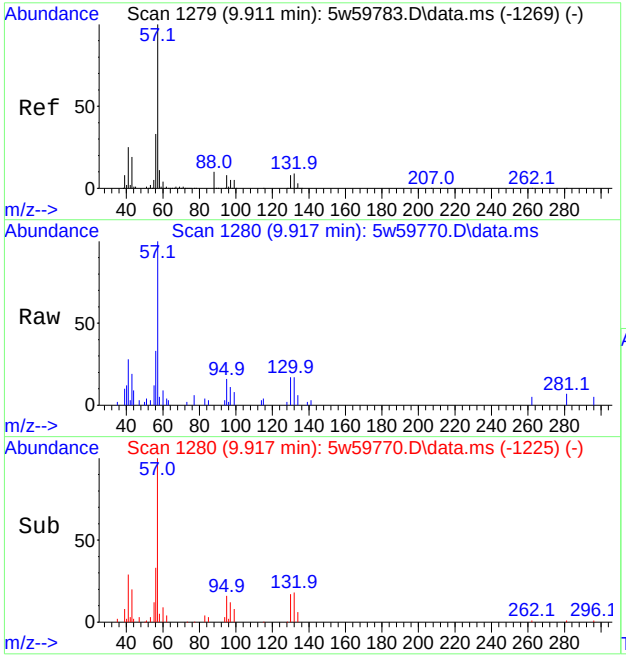


#59
BROMODICHLOROMETHANE
Concen: 0.10 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 12436

Ion	Ratio	Lower	Upper
83	100		
85	67.7	33.4	93.4

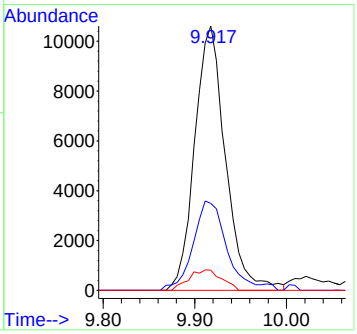


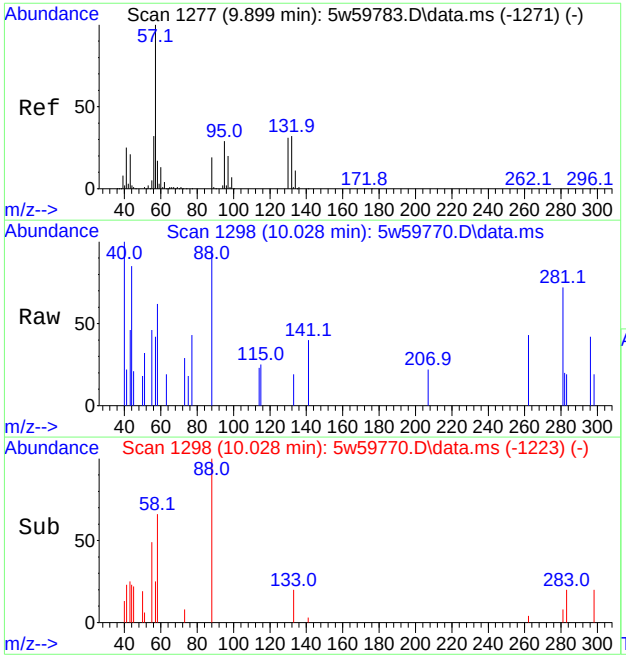


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 24769

Ion	Ratio	Lower	Upper
57	100		
56	37.1	2.5	62.5
99	8.2	0.0	37.3

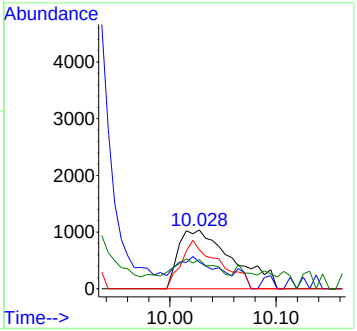


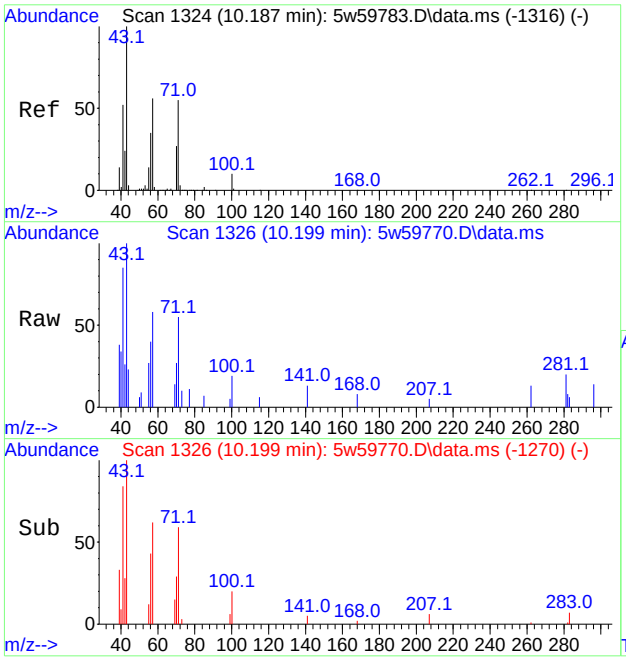


#61
1,4-DIOXANE
Concen: 0.11 PPBV
RT: 10.028 min Scan# 1298
Delta R.T. 0.129 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 88 Resp: 3670

Ion	Ratio	Lower	Upper
88	100		
57	45.3	494.2	554.2#
58	66.2	58.9	118.9
43	49.4	78.3	138.3#

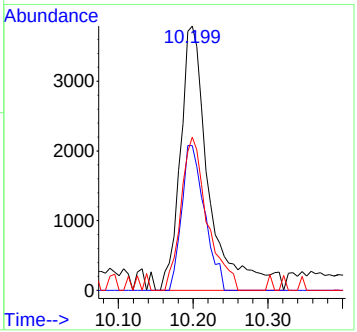


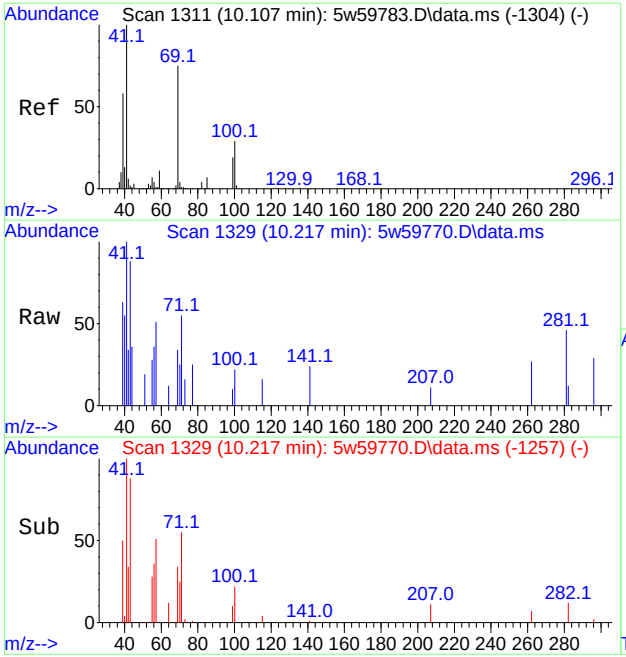


#62
HEPTANE
Concen: 0.13 PPBV
RT: 10.199 min Scan# 1326
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 10112

Ion	Ratio	Lower	Upper
43	100		
71	43.8	24.5	84.5
57	52.9	26.2	86.2

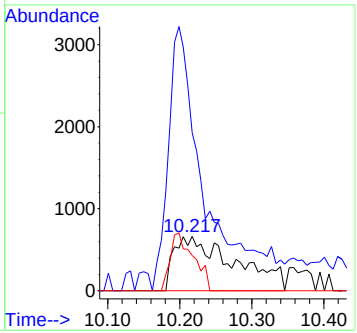


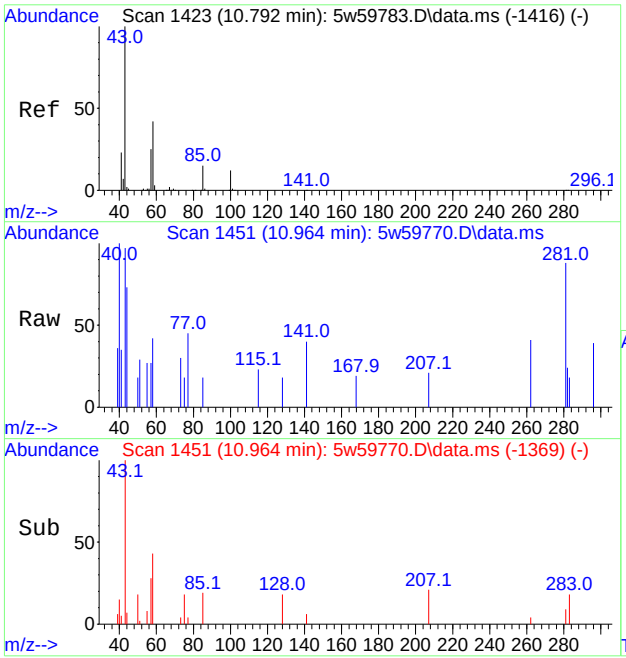


#63
METHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 10.217 min Scan# 1329
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 3857

Ion	Ratio	Lower	Upper
69	100		
41	336.7	95.3	155.3#
100	41.2	6.3	66.3

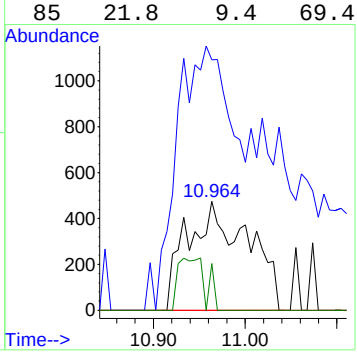


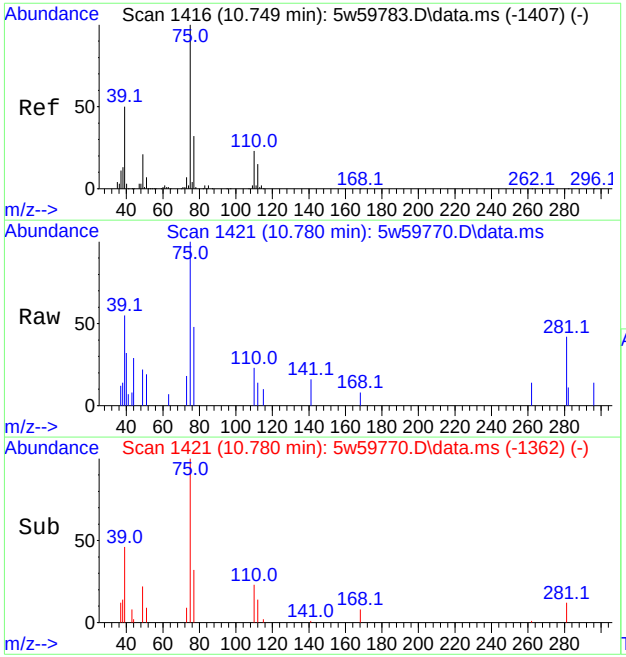


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 10.964 min Scan# 1451
Delta R.T. 0.172 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 2182

Ion	Ratio	Lower	Upper
58	100		
43	381.4	209.2	269.2#
100	0.0	0.0	58.8
85	21.8	9.4	69.4

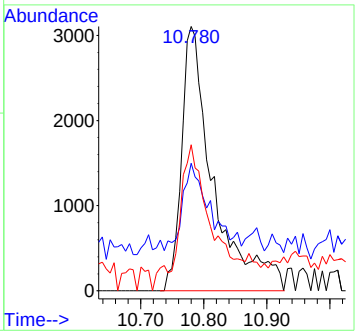


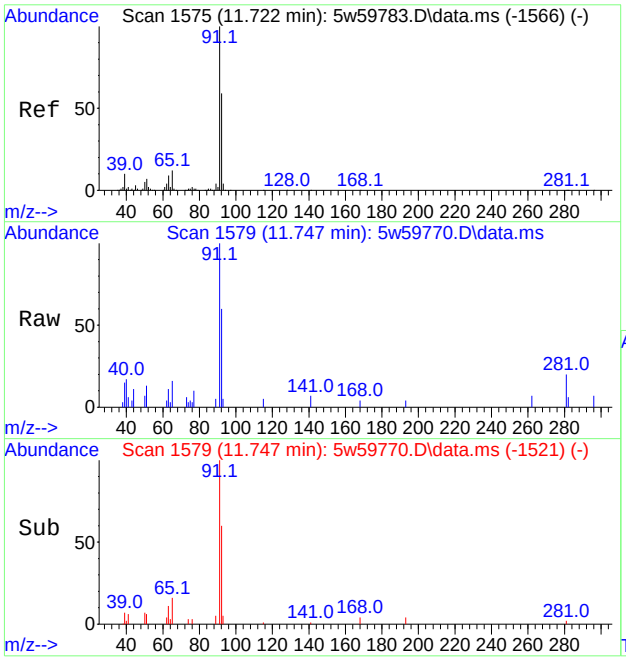


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 10.780 min Scan# 1421
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 10824

Ion	Ratio	Lower	Upper
75	100		
77	30.2	2.2	62.2
39	53.8	34.3	94.3

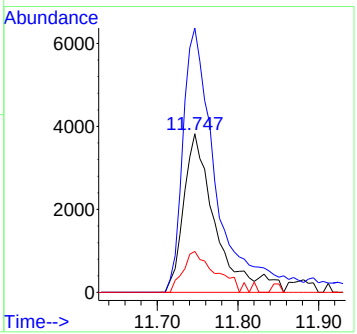


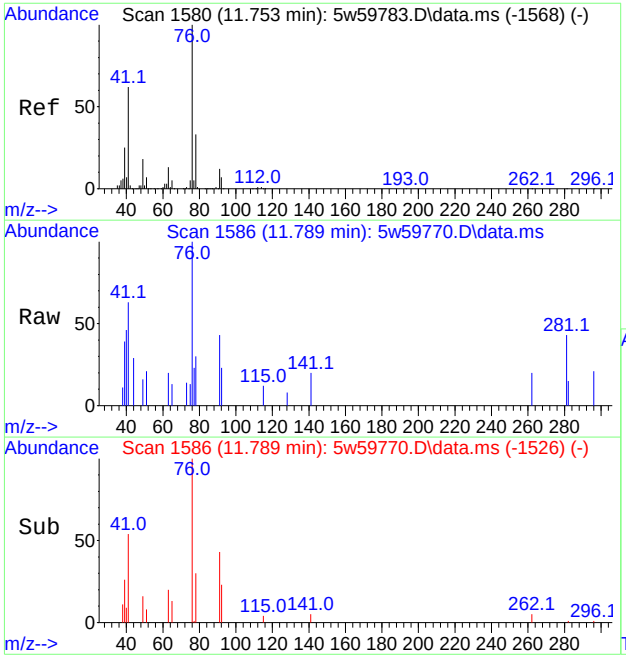


#66
TOLUENE
Concen: 0.10 PPBV
RT: 11.747 min Scan# 1579
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 92 Resp: 10446

Ion	Ratio	Lower	Upper
92	100		
91	184.4	140.1	200.1
65	27.5	0.0	53.1

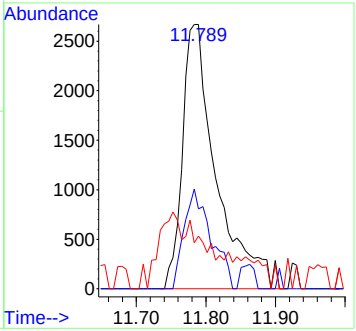


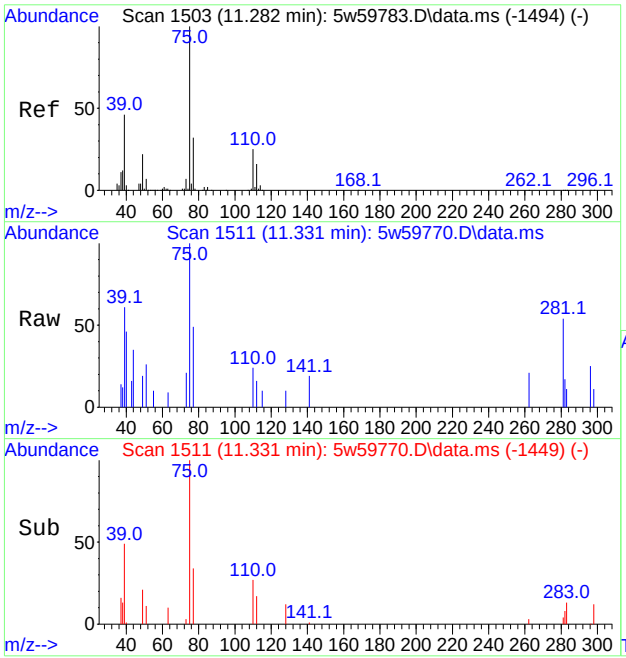


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 11.789 min Scan# 1586
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 9064

Ion	Ratio	Lower	Upper
76	100		
78	30.1	23.2	43.0
63	0.0	7.1	13.1#

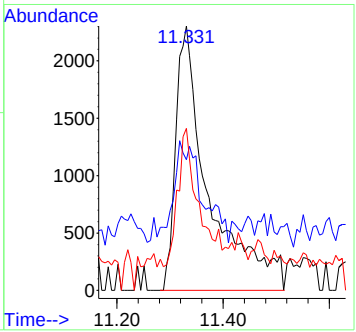


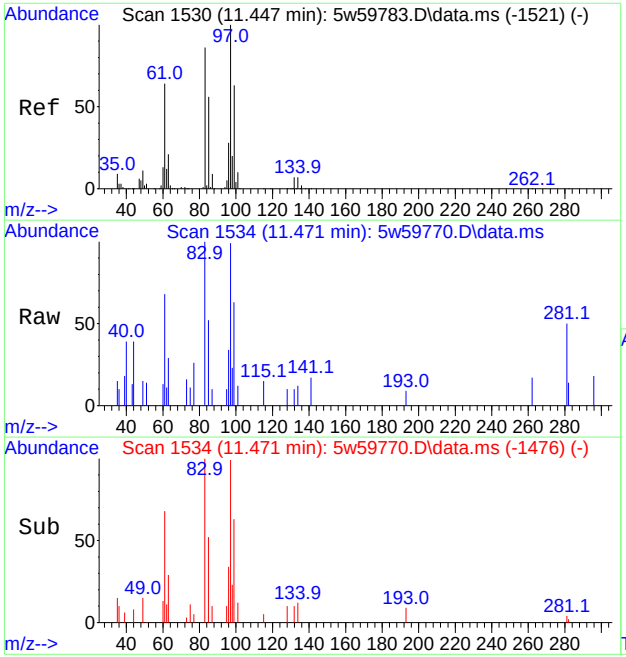


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 11.331 min Scan# 1511
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 9955

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	58.2	16.1	76.1

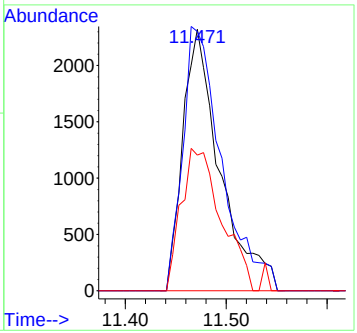


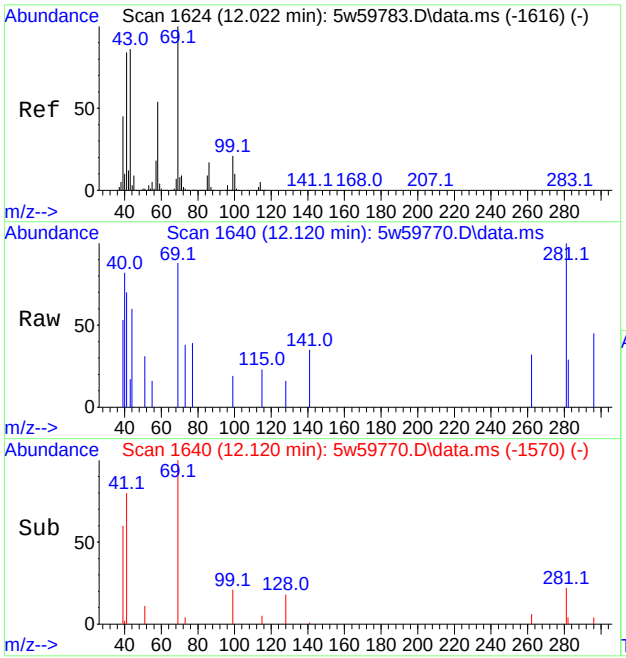


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 11.471 min Scan# 1534
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 5972

Ion	Ratio	Lower	Upper
83	100		
97	105.4	86.3	146.3
85	58.5	35.3	95.3

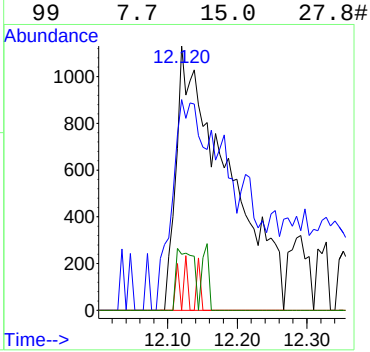


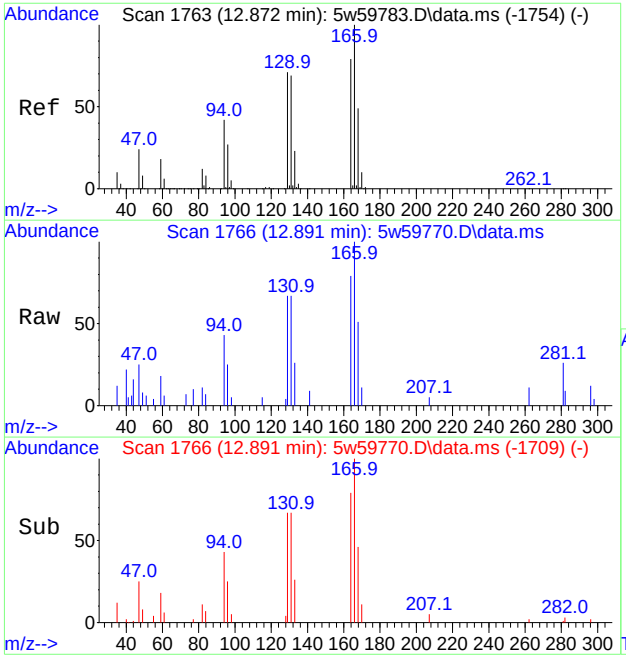


#72
ETHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 12.120 min Scan# 1640
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 5758

Ion	Ratio	Lower	Upper
69	100		
41	125.5	64.0	119.0#
86	0.0	12.0	22.4#
99	7.7	15.0	27.8#

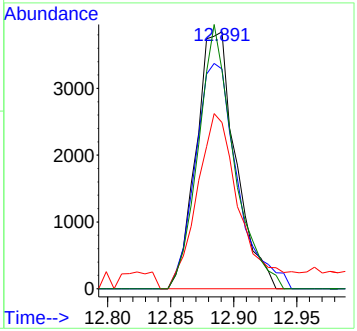


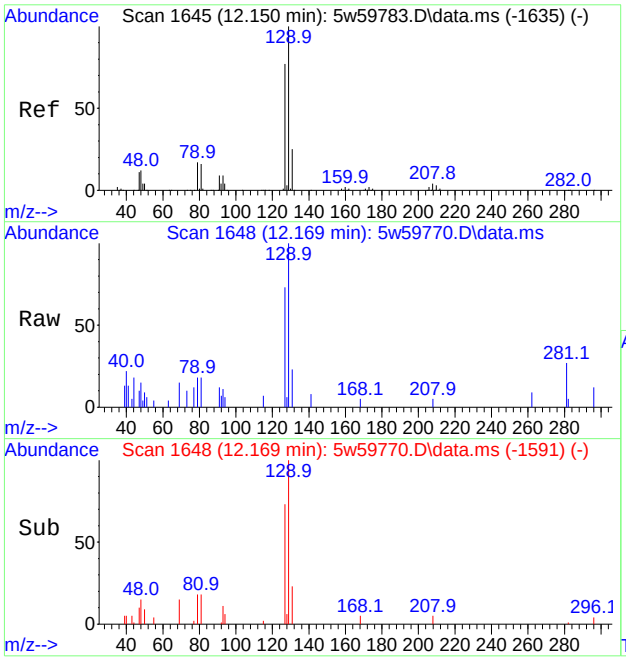


#73
TETRACHLOROETHYLENE
Concen: 0.12 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:164 Resp: 8344

Ion	Ratio	Lower	Upper
164	100		
129	93.5	59.7	119.7
168	81.8	32.2	92.2
131	93.3	57.8	117.8

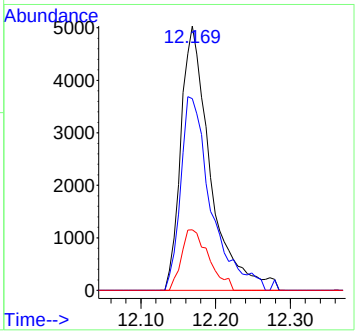


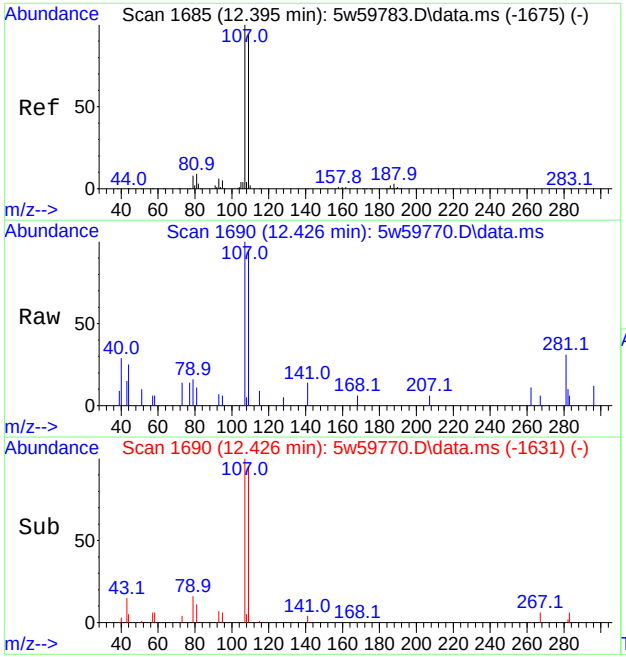


#74
DIBROMOCHLOROMETHANE
Concen: 0.11 PPBV
RT: 12.169 min Scan# 1648
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:129 Resp: 13809

Ion	Ratio	Lower	Upper
129	100		
127	75.3	47.1	107.1
131	21.3	0.0	54.5

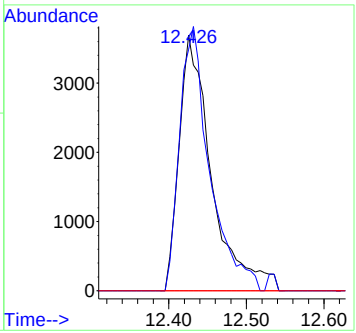


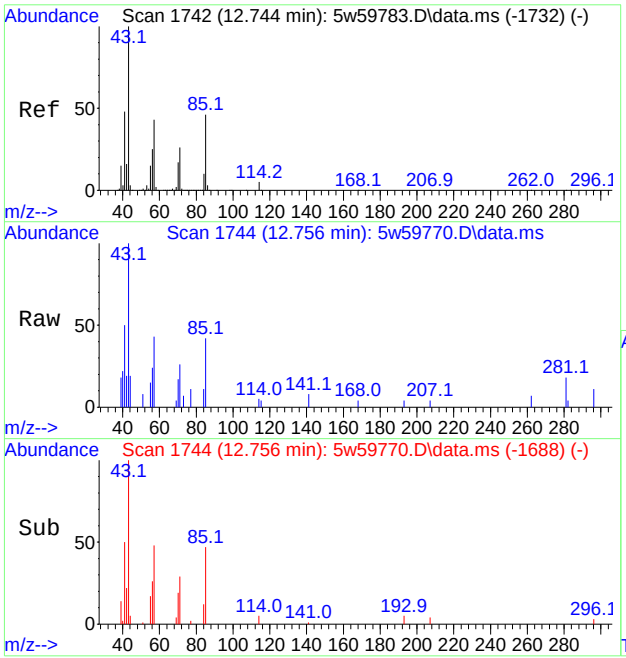


#75
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 12.426 min Scan# 1690
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:107 Resp: 10727

Ion	Ratio	Lower	Upper
107	100		
109	96.3	64.8	124.8
188	0.0	0.0	32.8

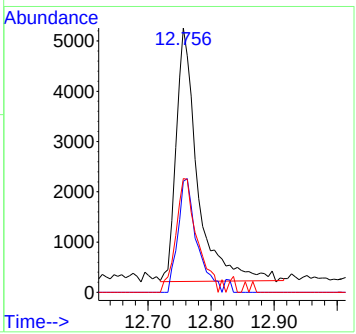


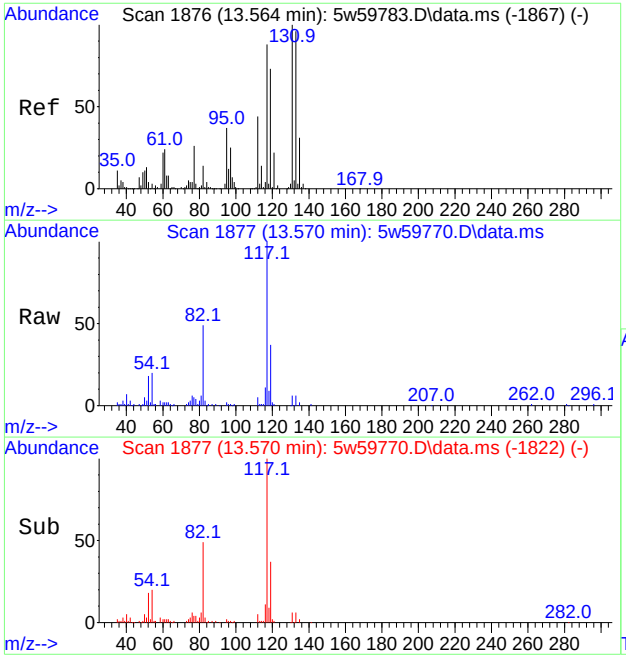


#76
OCTANE
Concen: 0.13 PPBV
RT: 12.756 min Scan# 1744
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 11856

Ion	Ratio	Lower	Upper
43	100		
85	39.5	14.6	74.6
57	45.0	13.7	73.7

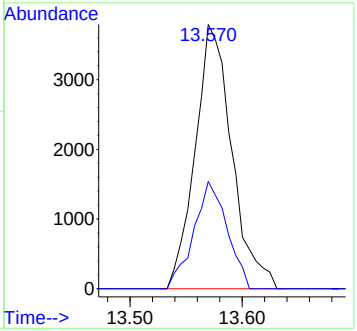


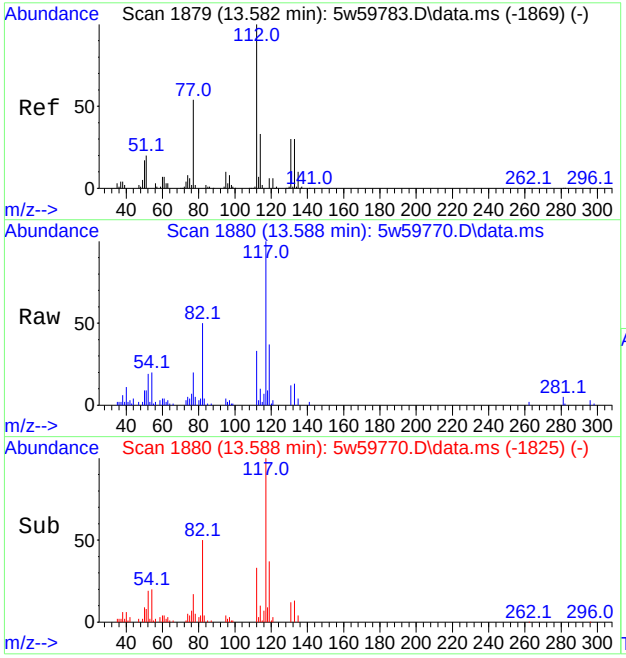


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.11 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:131 Resp: 8635

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

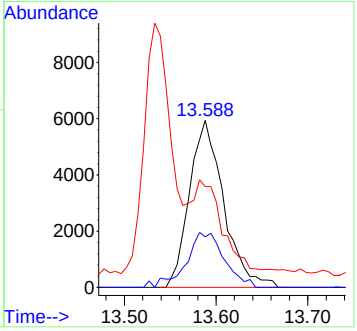


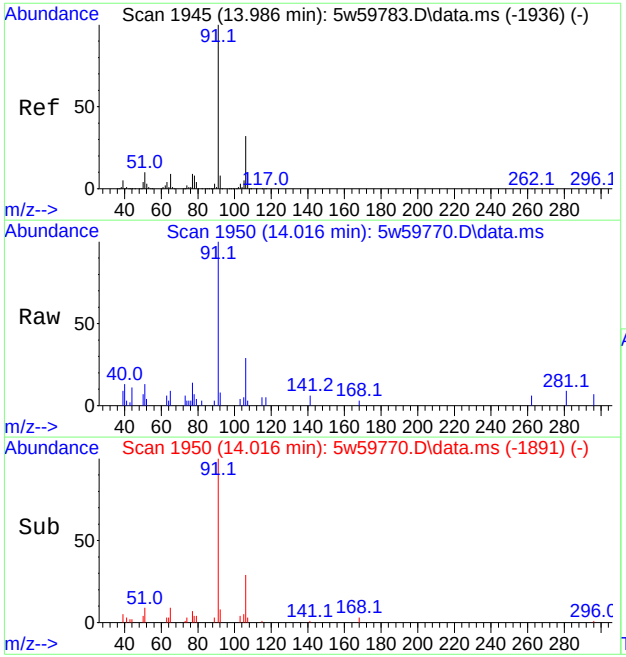


#78
CHLOROBENZENE
Concen: 0.12 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:112 Resp: 15456

Ion	Ratio	Lower	Upper
112	100		
114	36.4	2.6	62.6
77	0.0	25.4	85.4#

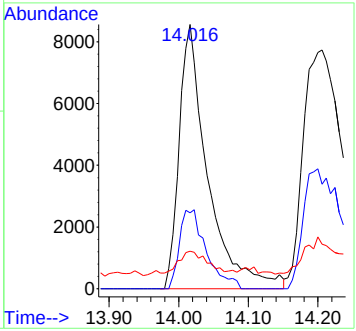


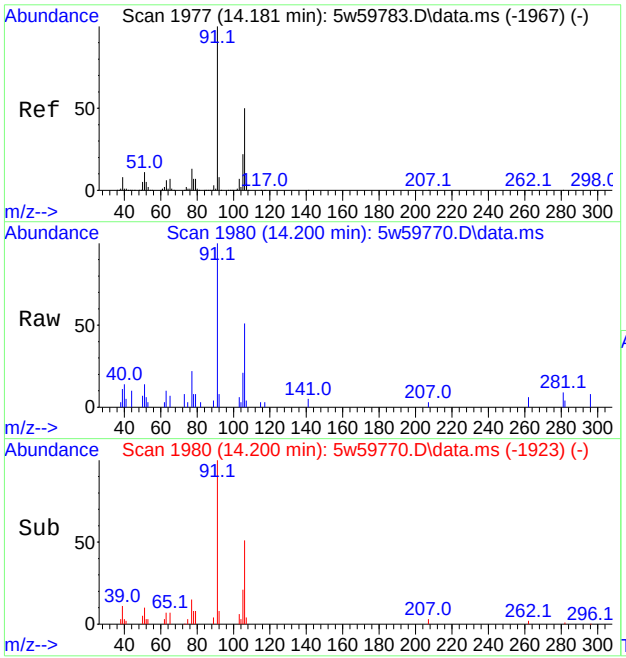


#79
ETHYLBENZENE
Concen: 0.12 PPBV
RT: 14.016 min Scan# 1950
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 24398

Ion	Ratio	Lower	Upper
91	100		
106	28.2	1.3	61.3
77	8.1	0.0	38.6

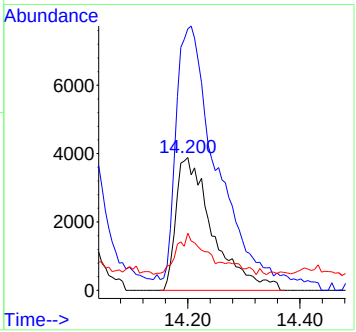


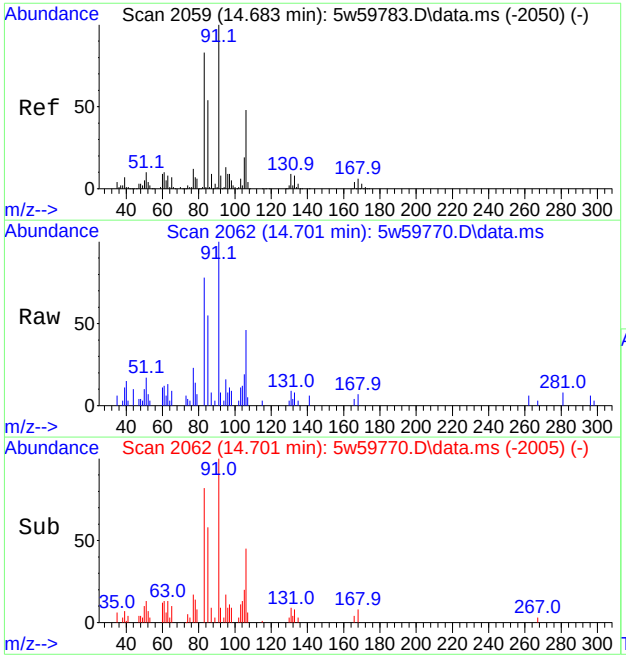


#80
m,p-XYLENE
Concen: 0.22 PPBV
RT: 14.200 min Scan# 1980
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 17695

Ion	Ratio	Lower	Upper
106	100		
91	196.6	171.0	231.0
77	43.1	0.0	56.7

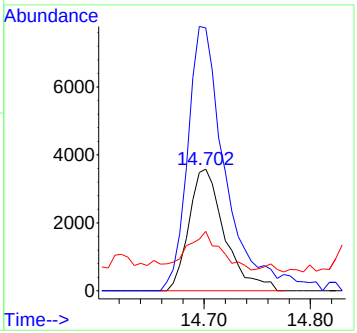


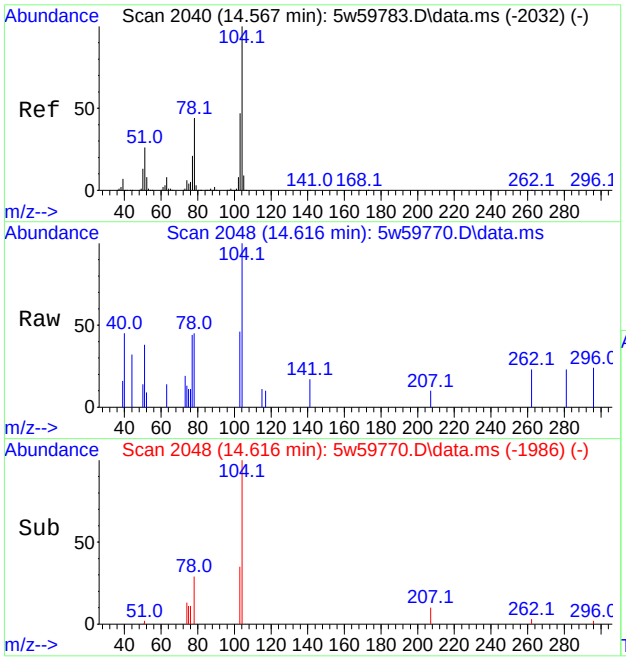


#81
o-XYLENE
Concen: 0.11 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 8363

Ion	Ratio	Lower	Upper
106	100		
91	232.2	181.6	241.6
77	28.4	0.0	56.6

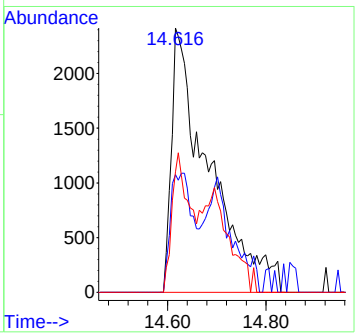


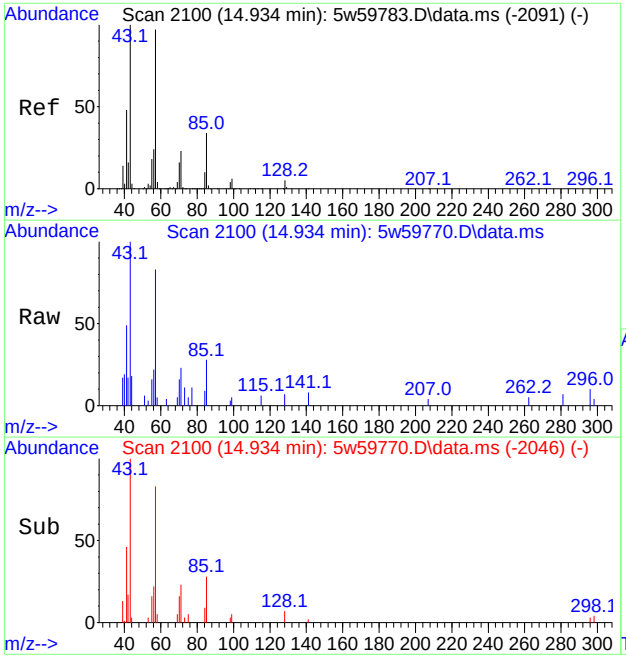


#82
STYRENE
Concen: 0.11 PPBV
RT: 14.616 min Scan# 2048
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:104 Resp: 12755

Ion	Ratio	Lower	Upper
104	100		
78	58.0	13.3	73.3
103	54.2	17.2	77.2

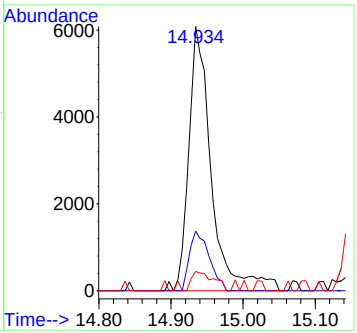


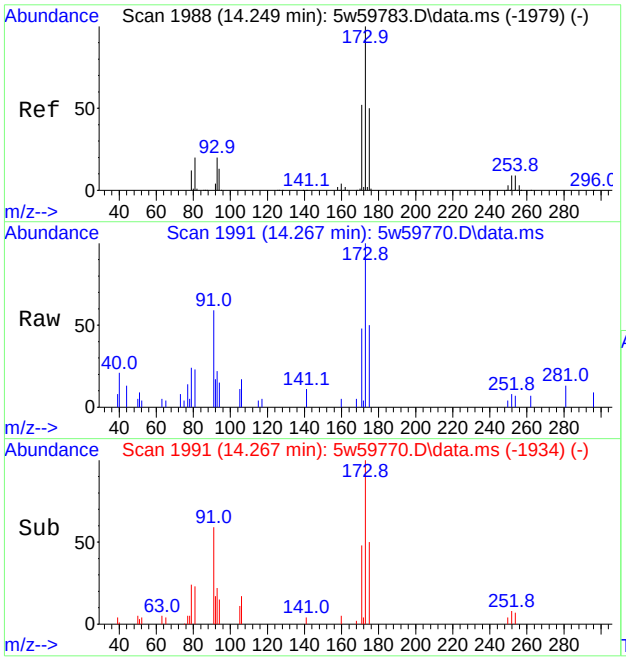


#83
NONANE
Concen: 0.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 13253

Ion	Ratio	Lower	Upper
43	100		
71	19.7	0.0	52.7
128	7.1	0.0	34.7

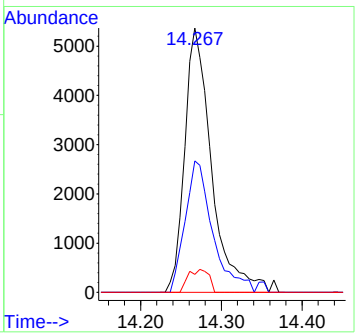


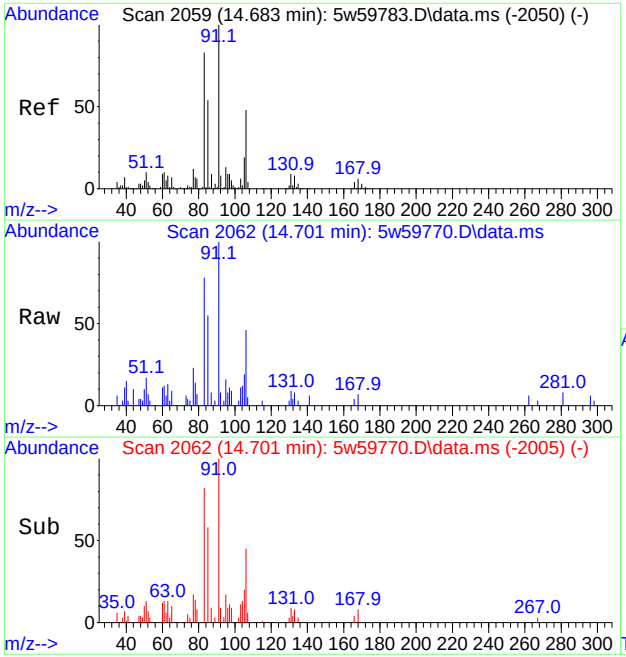


#84
BROMOFORM
Concen: 0.10 PPBV
RT: 14.267 min Scan# 1991
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:173 Resp: 12500

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	6.7	0.0	39.0

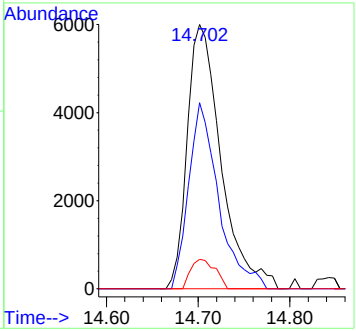


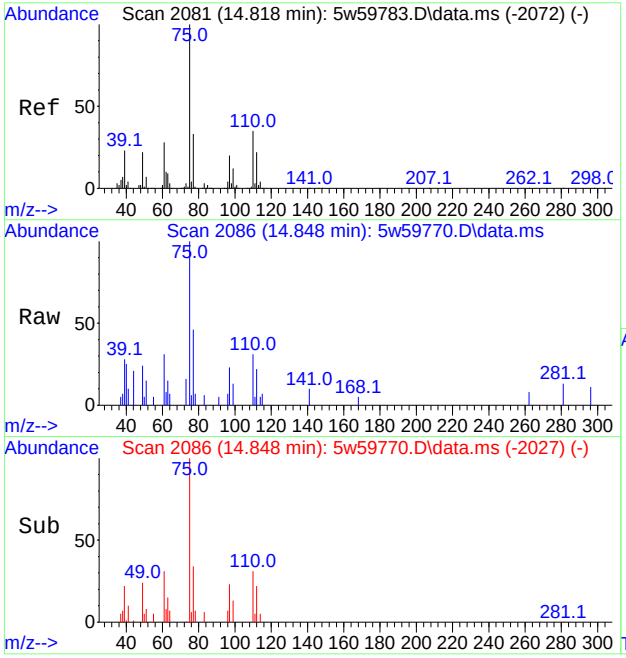


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.12 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 15380

Ion	Ratio	Lower	Upper
83	100		
85	62.5	35.2	95.2
131	8.1	0.0	40.3

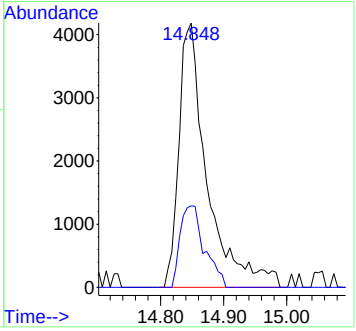


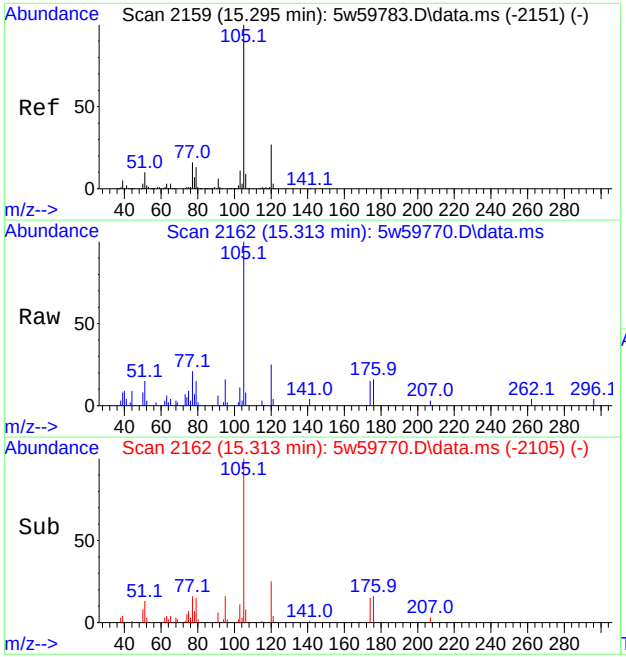


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.13 PPBV
RT: 14.848 min Scan# 2086
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 13012

Ion	Ratio	Lower	Upper
75	100		
110	26.6	4.4	64.4

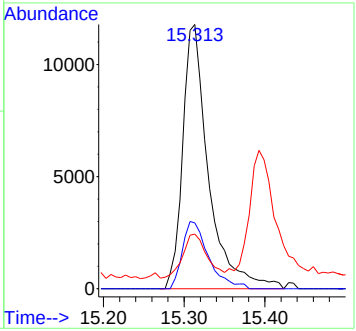


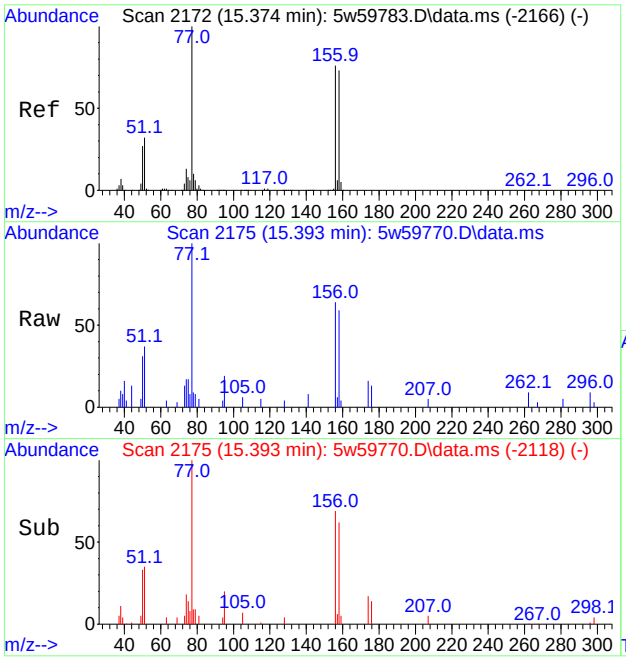


#88
ISOPROPYLBENZENE
Concen: 0.12 PPBV
RT: 15.313 min Scan# 2162
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 26261

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	17.6	0.0	45.6

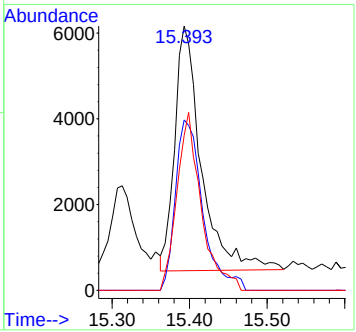


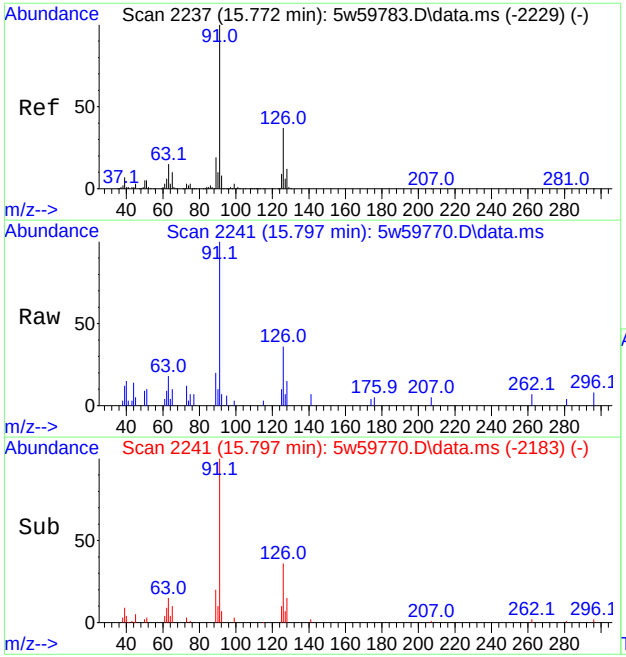


#89
BROMOBENZENE
Concen: 0.12 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 77 Resp: 13681

Ion	Ratio	Lower	Upper
77	100		
156	71.4	54.9	101.9
158	66.2	53.5	99.3

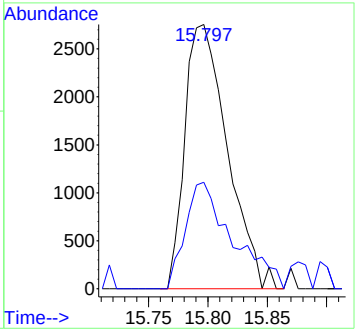


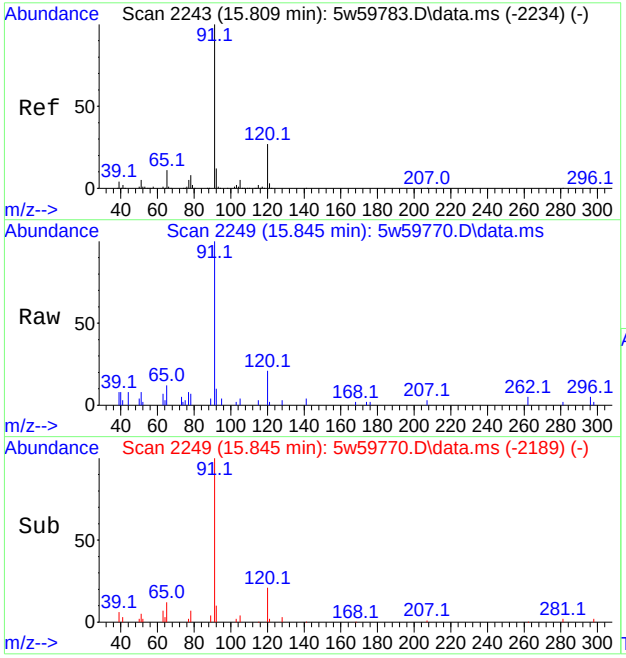


#90
2-CHLOROTOLUENE
Concen: 0.11 PPBV
RT: 15.797 min Scan# 2241
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:126 Resp: 6870

Ion	Ratio	Lower	Upper
126	100		
128	44.7	2.7	62.7

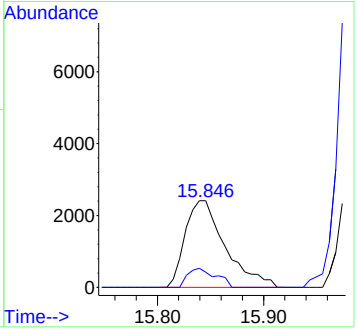


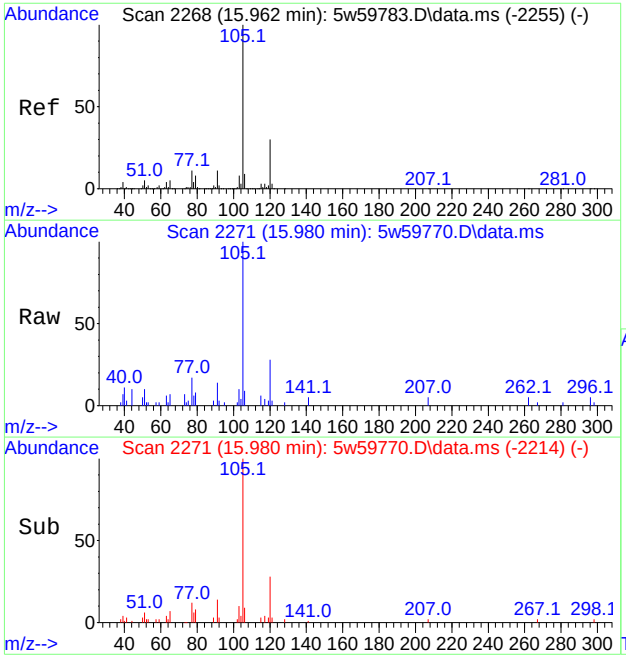


#91
n-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.845 min Scan# 2249
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:120 Resp: 6334

Ion	Ratio	Lower	Upper
120	100		
105	15.4	0.0	47.0

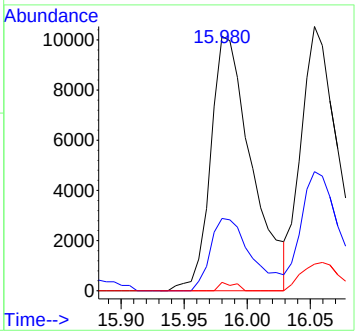


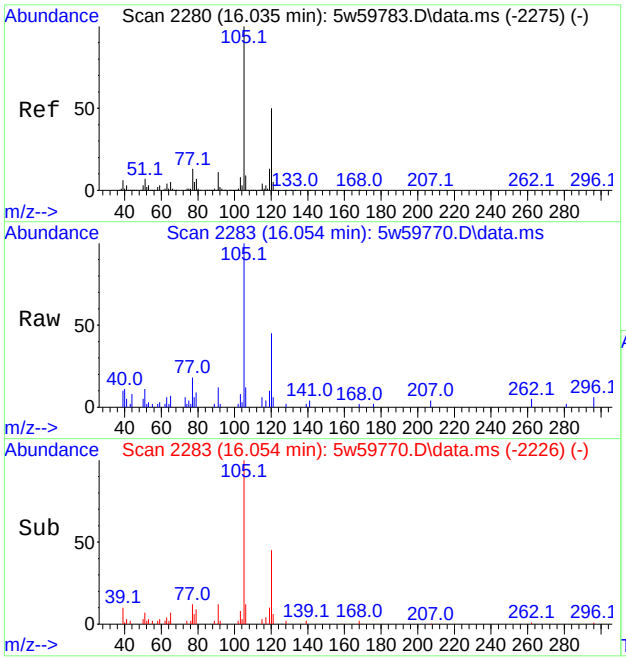


#92
4-ETHYLTOLUENE
Concen: 0.11 PPBV
RT: 15.980 min Scan# 2271
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 22792

Ion	Ratio	Lower	Upper
105	100		
120	29.0	0.0	59.9
119	1.3	0.0	32.3

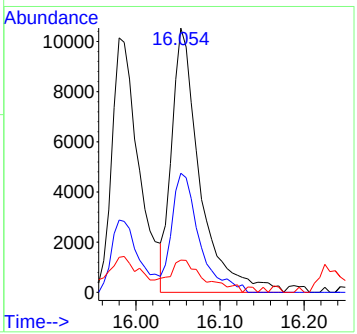


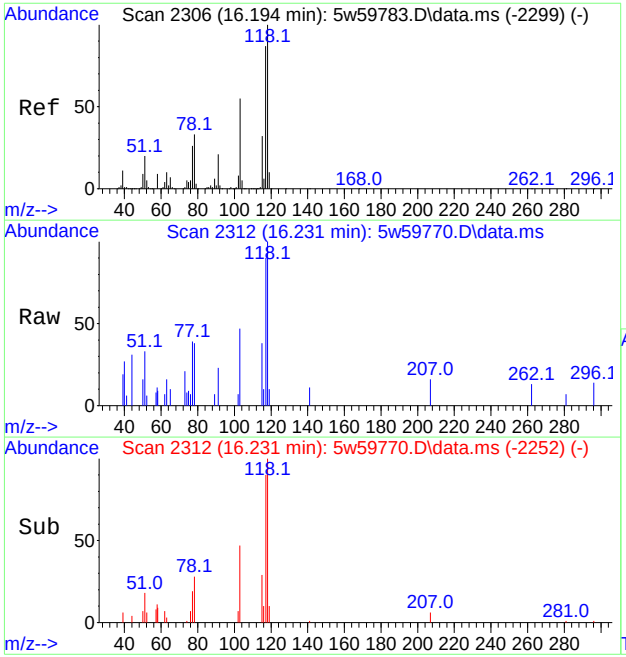


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.13 PPBV
RT: 16.054 min Scan# 2283
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 24501

Ion	Ratio	Lower	Upper
105	100		
120	43.9	19.4	79.4
91	14.7	0.0	40.8

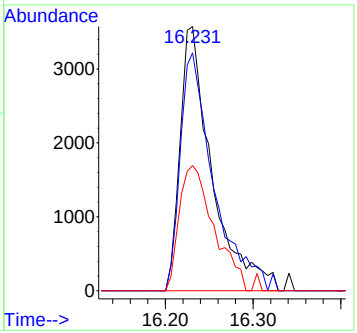


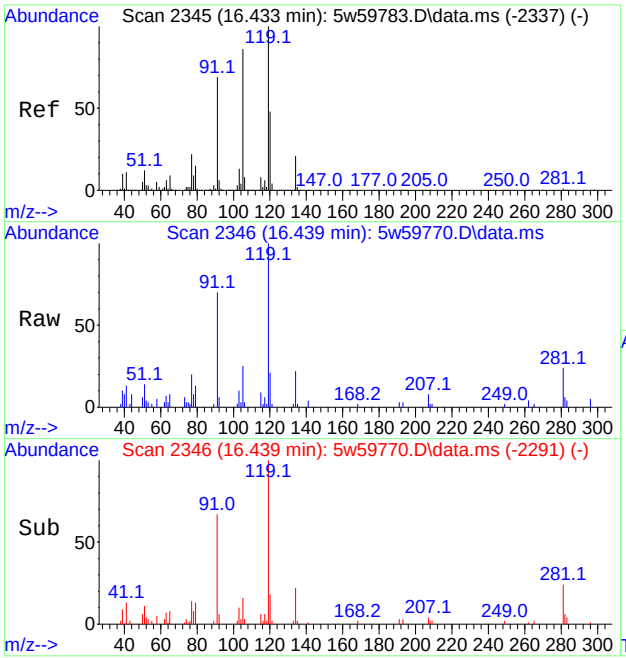


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.231 min Scan# 2312
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:118 Resp: 9018

Ion	Ratio	Lower	Upper
118	100		
117	94.5	60.9	113.1
103	51.7	38.6	71.8

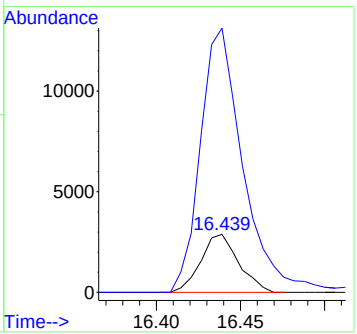


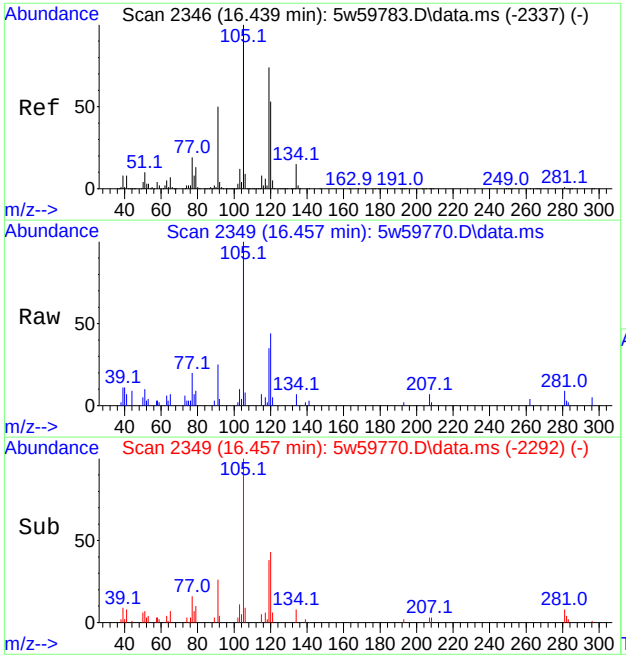


#95
tert-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 4502

Ion	Ratio	Lower	Upper
134	100		
119	518.7	459.3	519.3

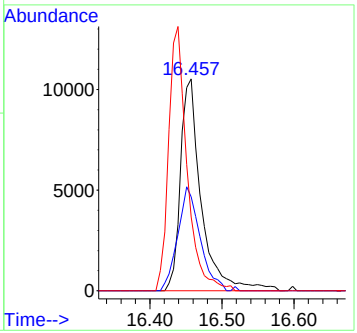


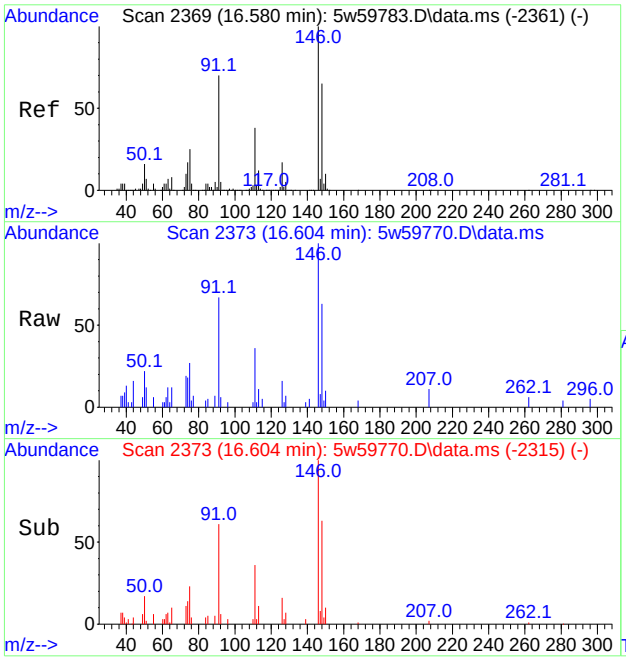


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.457 min Scan# 2349
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 21144

Ion	Ratio	Lower	Upper
105	100		
120	52.5	25.7	85.7
119	110.4	75.7	135.7

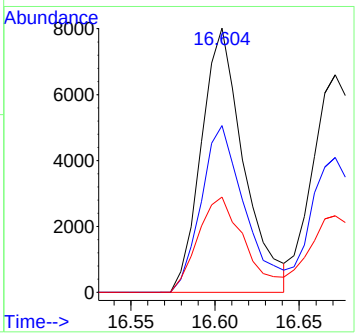


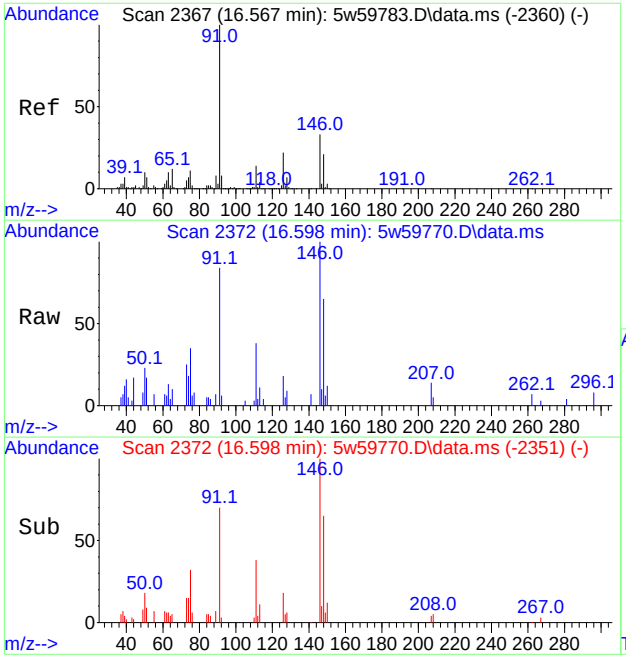


#97
m-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.604 min Scan# 2373
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 14099

Ion	Ratio	Lower	Upper
146	100		
148	65.5	34.8	94.8
111	40.2	8.2	68.2

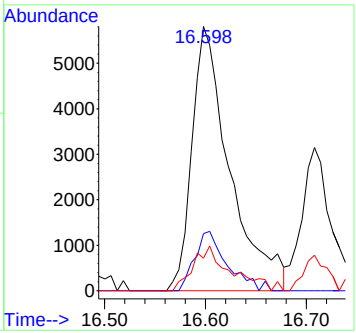


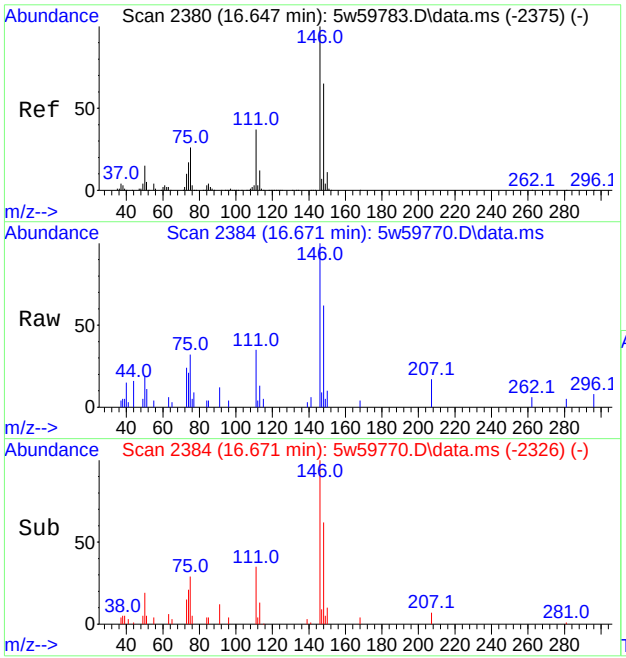


#98
BENZYL CHLORIDE
Concen: 0.09 PPBV
RT: 16.598 min Scan# 2372
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 15140

Ion	Ratio	Lower	Upper
91	100		
126	19.2	0.0	51.7
65	16.9	0.0	42.2

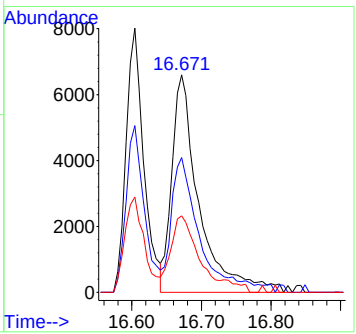


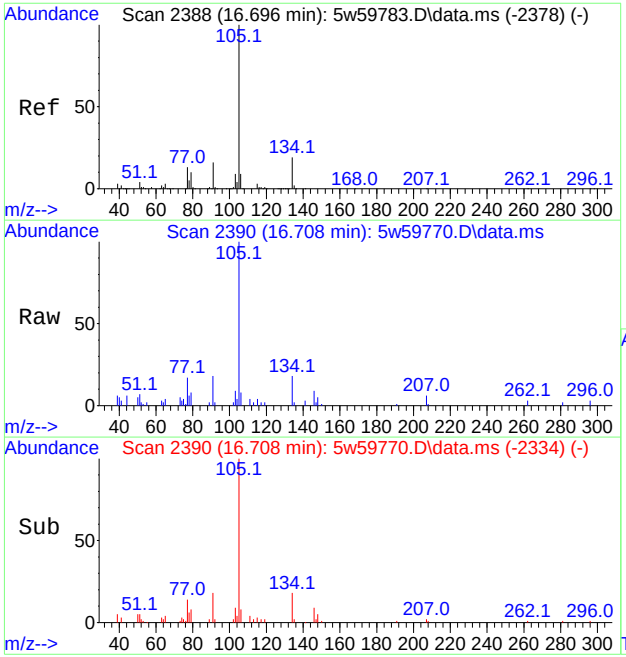


#99
p-DICHLOROBENZENE
Concen: 0.12 PPBV
RT: 16.671 min Scan# 2384
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 17844

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	38.4	6.7	66.7

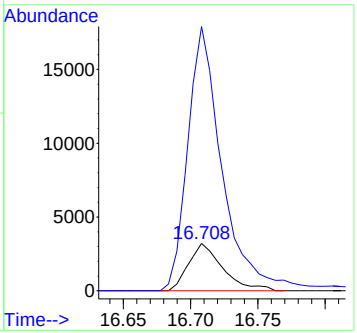


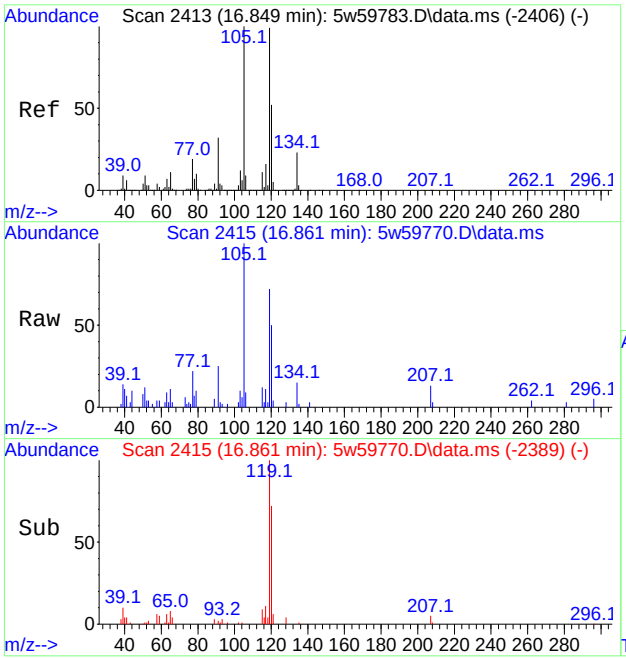


#100
sec-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.708 min Scan# 2390
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5680

Ion	Ratio	Lower	Upper
134	100		
105	572.9	502.5	562.5#

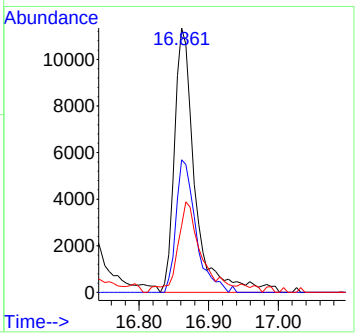


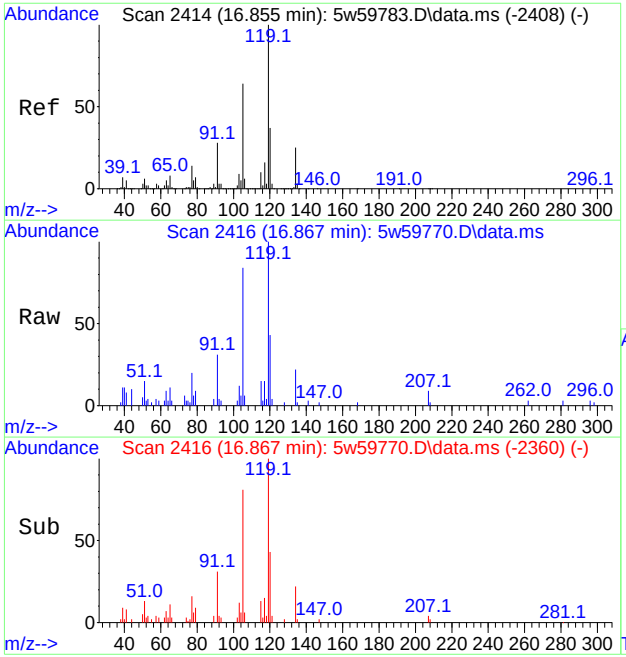


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 23306

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.5	83.5
91	41.1	7.4	67.4

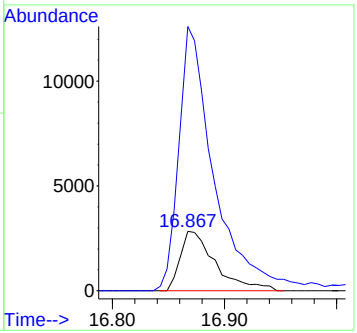


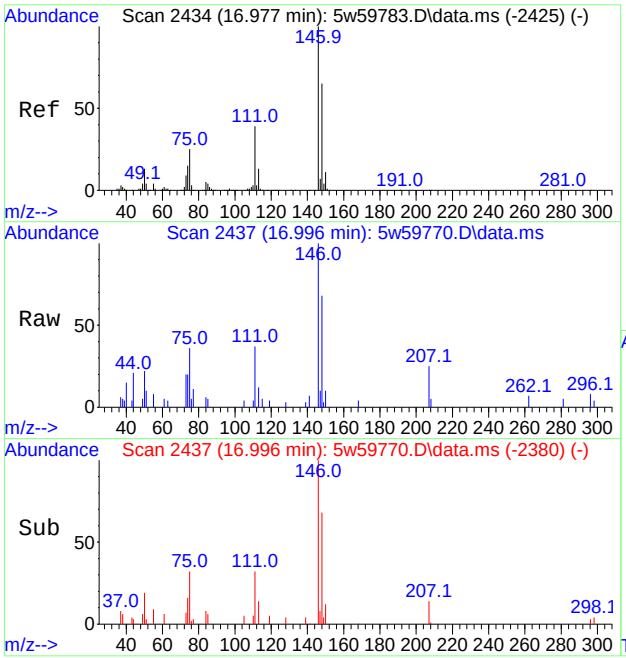


#102
p-ISOPROPYLTOLUENE
Concen: 0.11 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 6197

Ion	Ratio	Lower	Upper
134	100		
119	456.3	377.7	437.7#

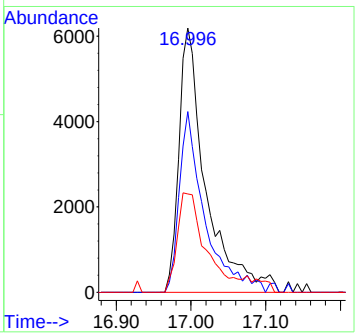


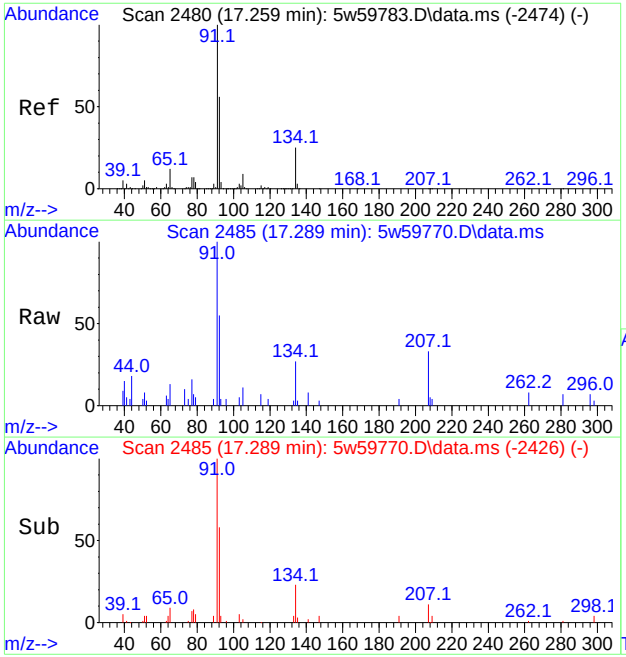


#103
o-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.996 min Scan# 2437
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 15528

Ion	Ratio	Lower	Upper
146	100		
148	64.1	34.3	94.3
111	44.3	9.2	69.2

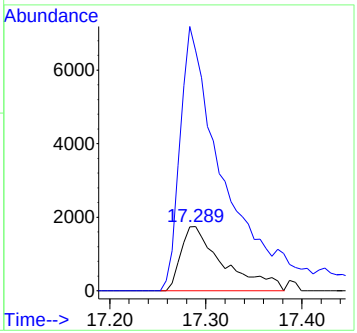


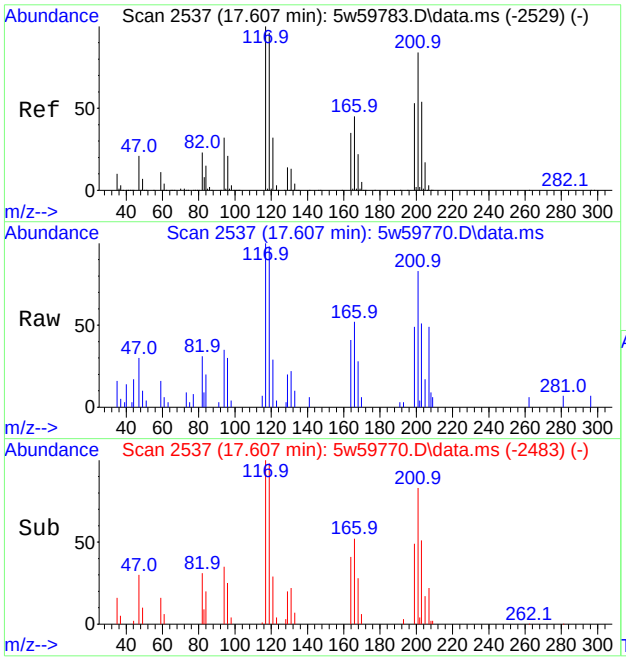


#104
n-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.289 min Scan# 2485
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5383

Ion	Ratio	Lower	Upper
134	100		
91	477.2	363.1	423.1#

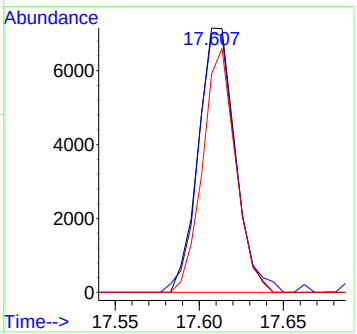


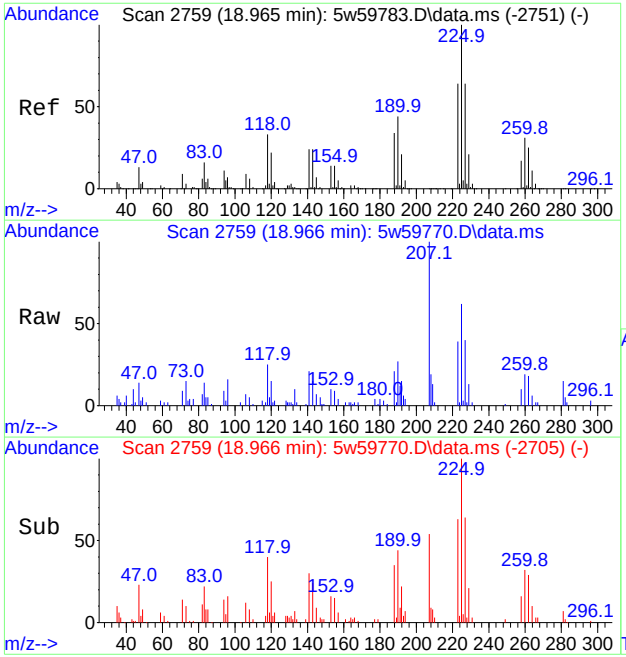


#105
HEXACHLOROETHANE
Concen: 0.11 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 10817

Ion	Ratio	Lower	Upper
117	100		
119	99.7	67.2	124.8
201	83.6	61.1	113.5

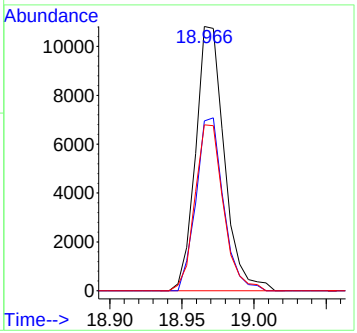


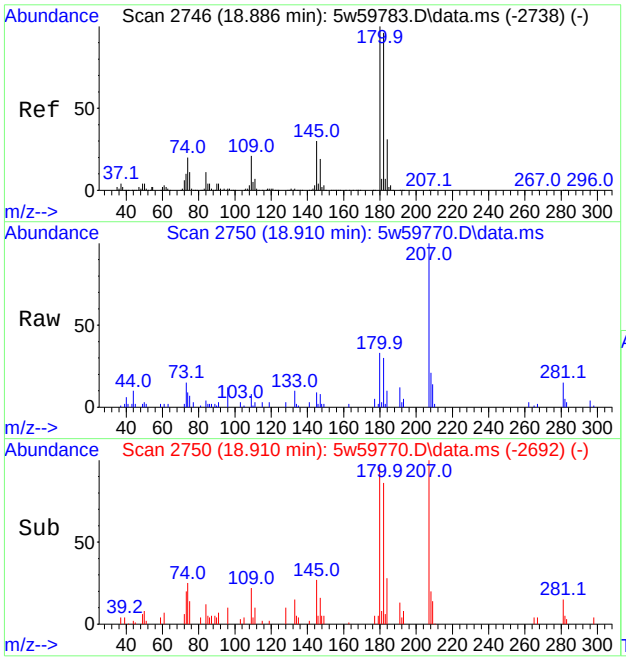


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:225 Resp: 14991

Ion	Ratio	Lower	Upper
225	100		
227	62.5	34.2	94.2
223	62.2	33.3	93.3

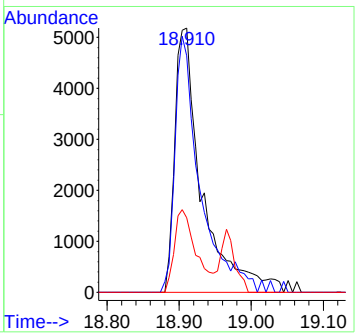


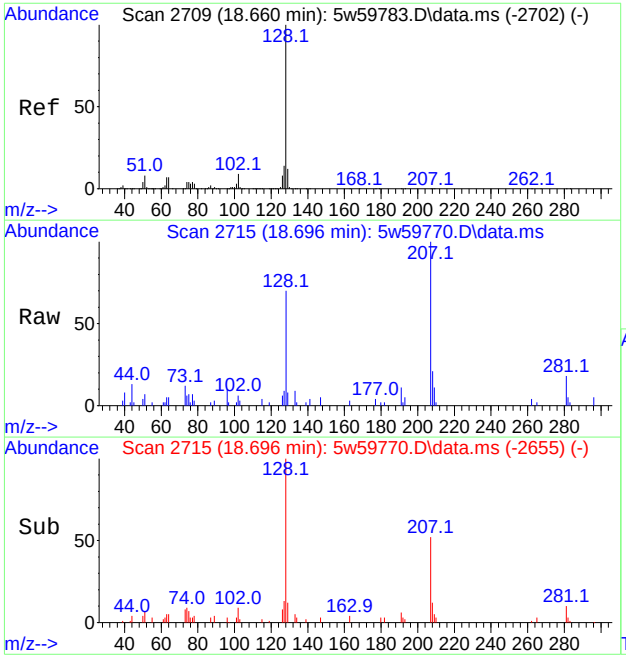


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.10 PPBV
RT: 18.910 min Scan# 2750
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:180 Resp: 13603

Ion	Ratio	Lower	Upper
180	100		
182	88.7	65.4	125.4
145	25.3	0.0	59.4

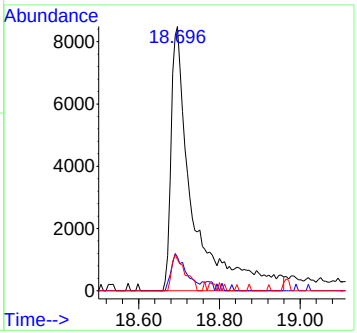


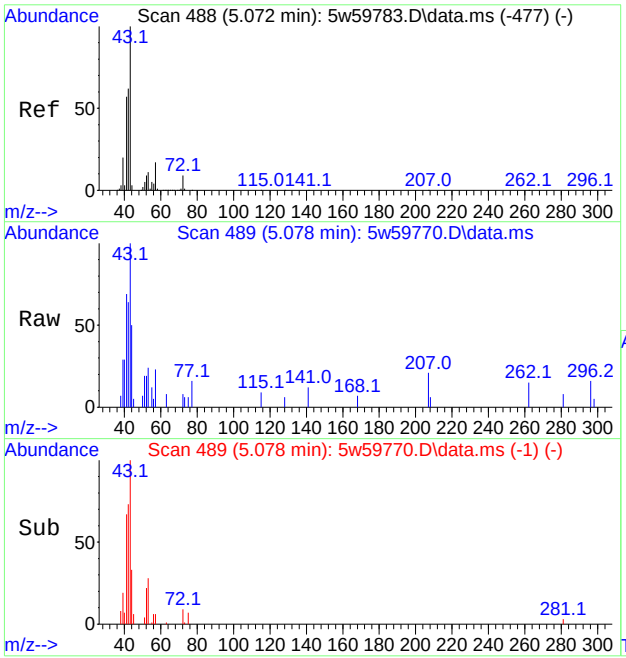


#108
NAPHTHALENE
Concen: 0.11 PPBV
RT: 18.696 min Scan# 2715
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:128 Resp: 31596

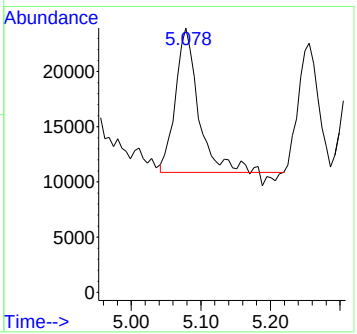
Ion	Ratio	Lower	Upper
128	100		
127	11.5	0.0	43.3
129	8.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.10 PPBV
RT: 5.078 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:TIC Resp: 29029



Manual Integration Approval Summary

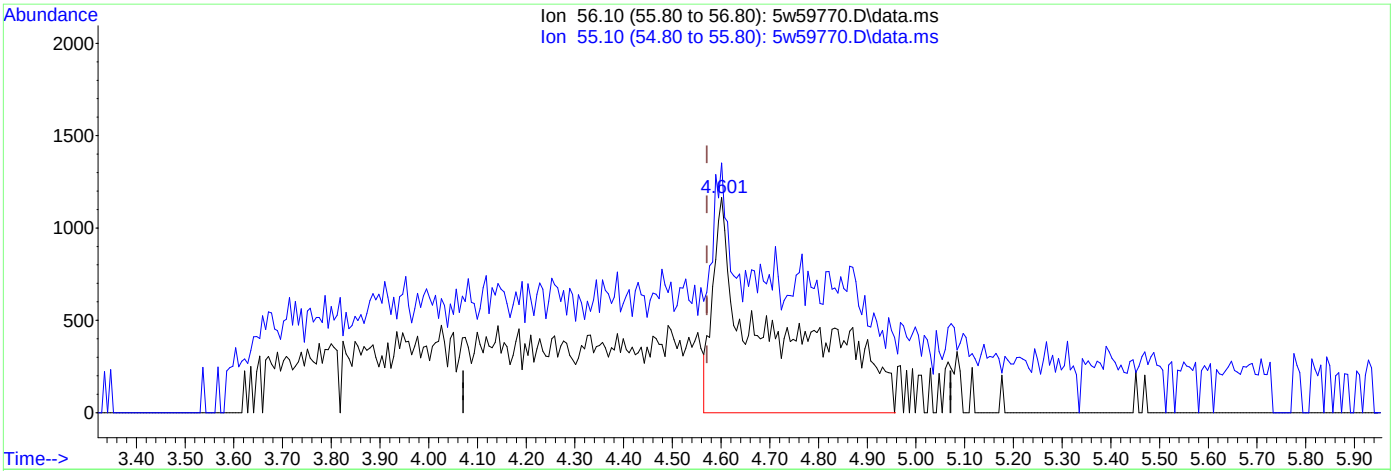
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59770.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:11 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

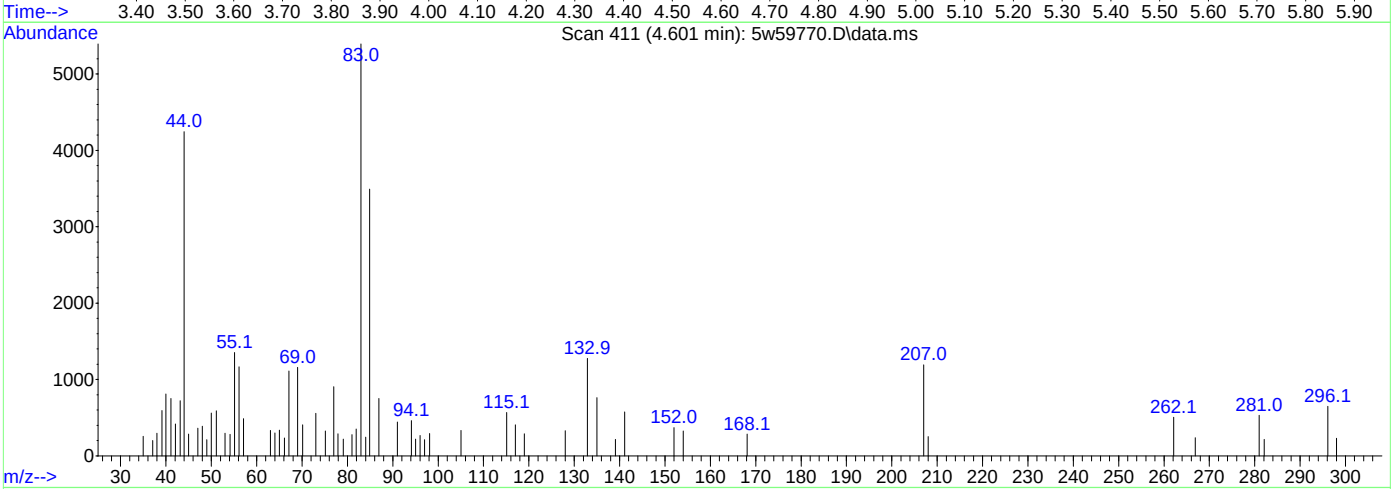
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		4.52	Poor instrument integration
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl ethyl ketone	78-93-3		6.92	Poor instrument integration
Methyl Acrylate	96-33-3		7.51	Missed peak
Ethyl Acetate	141-78-6		7.54	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.70PPBV

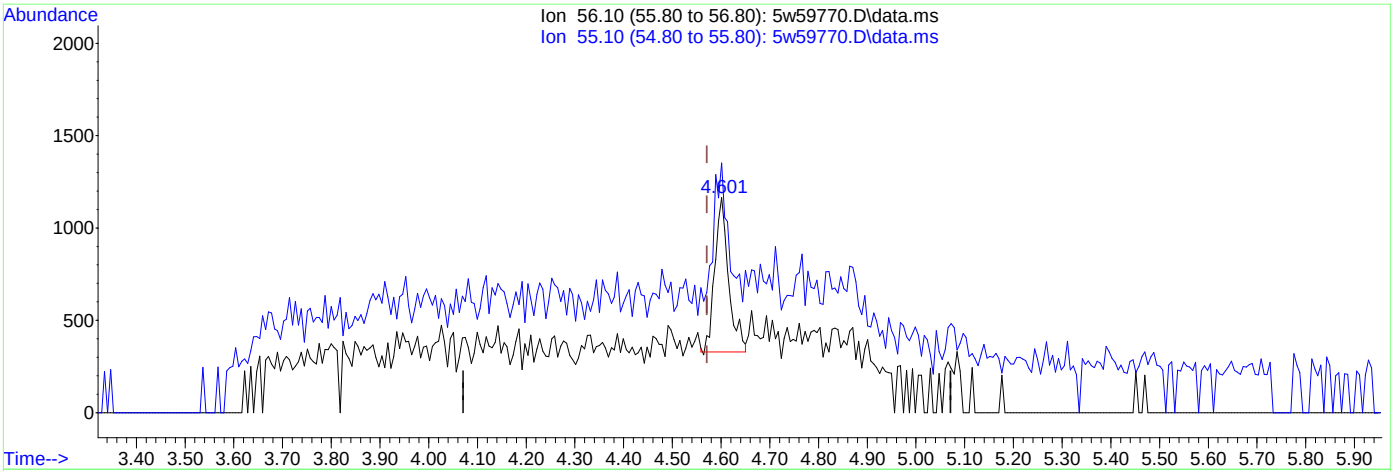
response 10153

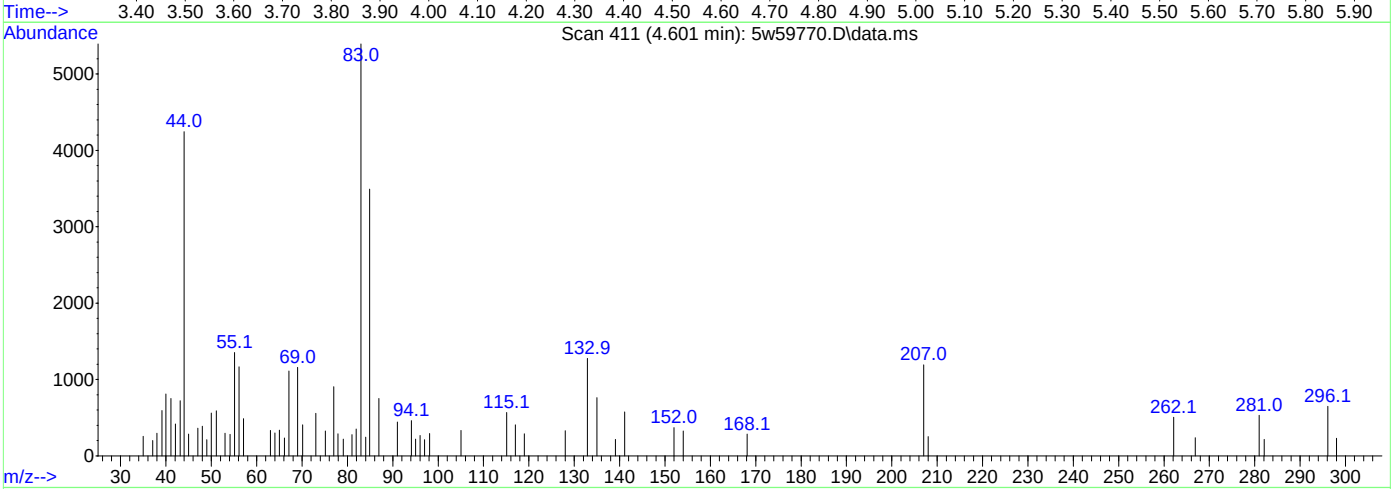
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	17.21#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.11PPBV m

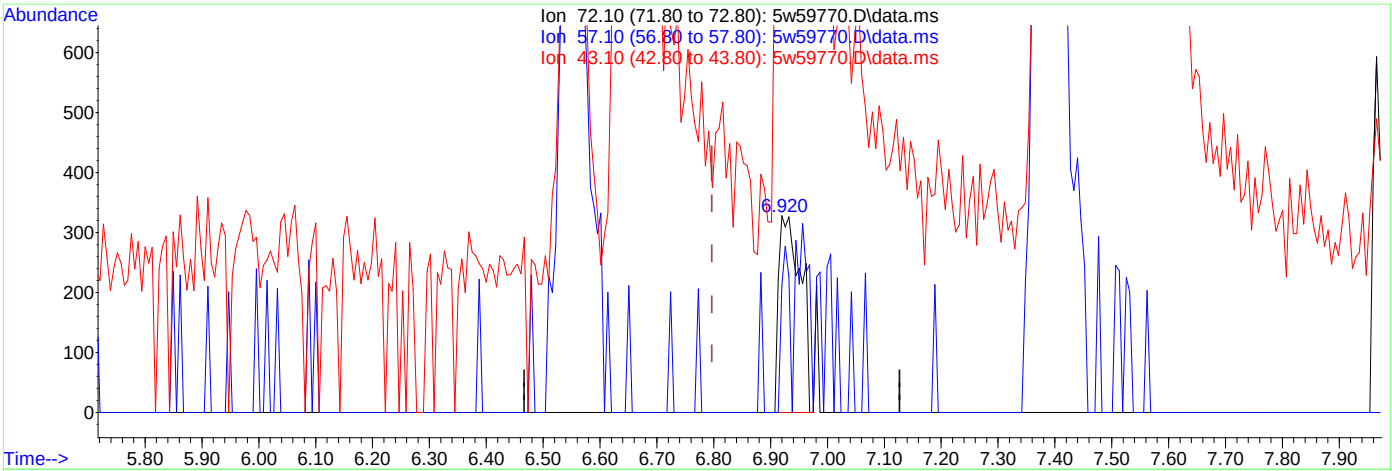
response 1642

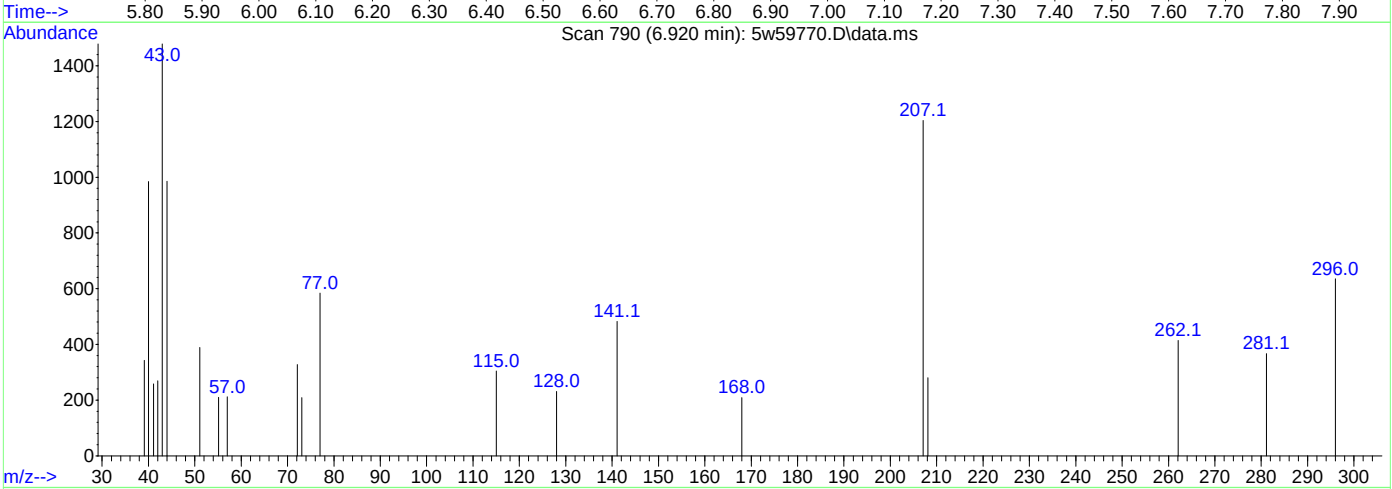
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	106.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.04PPBV

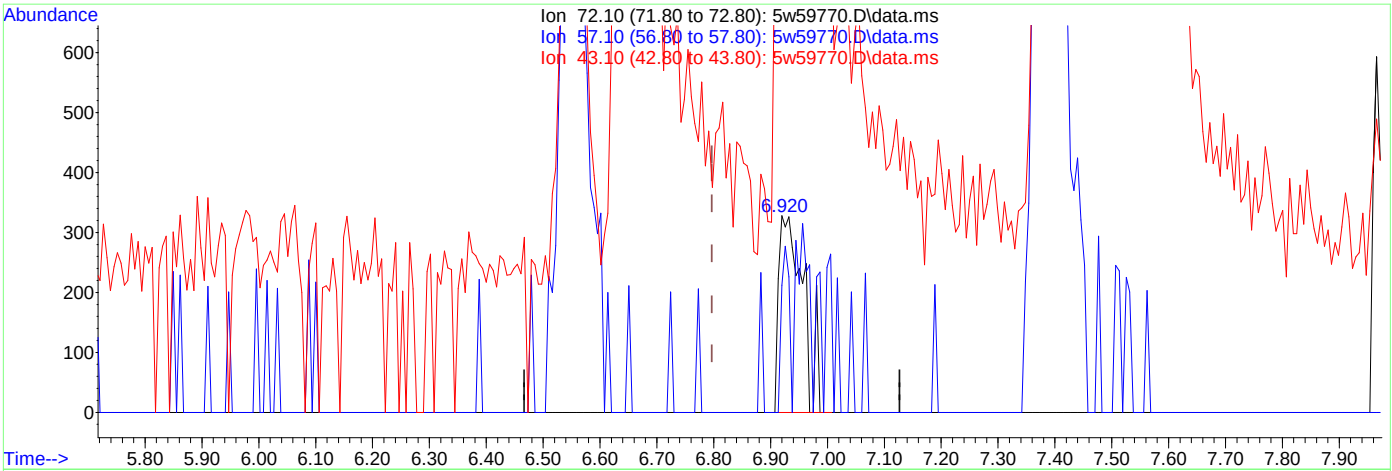
response 878

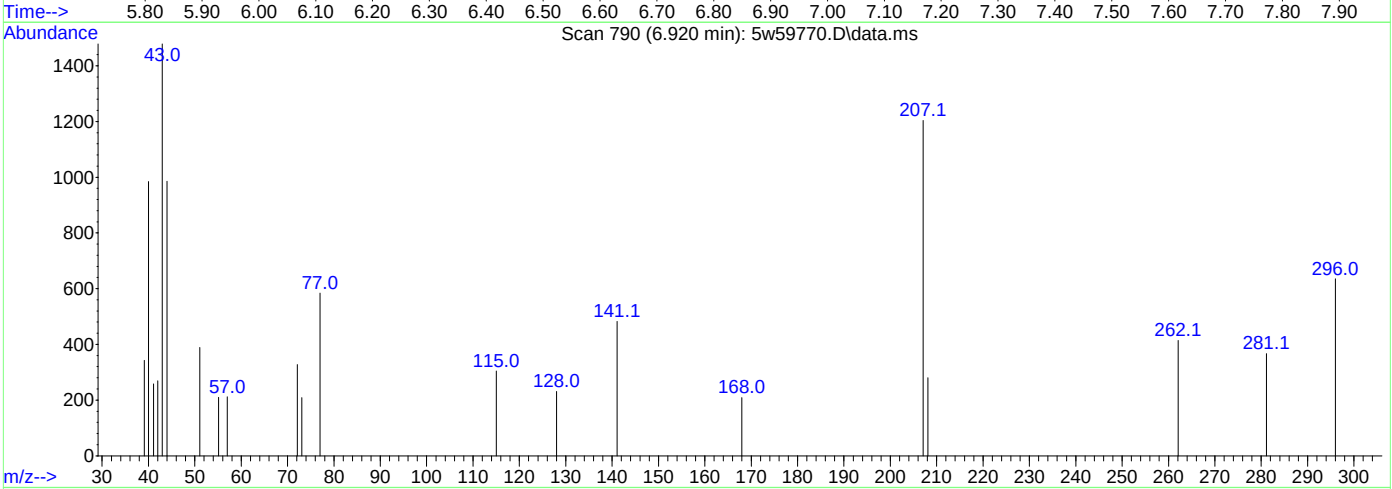
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.05PPBV m

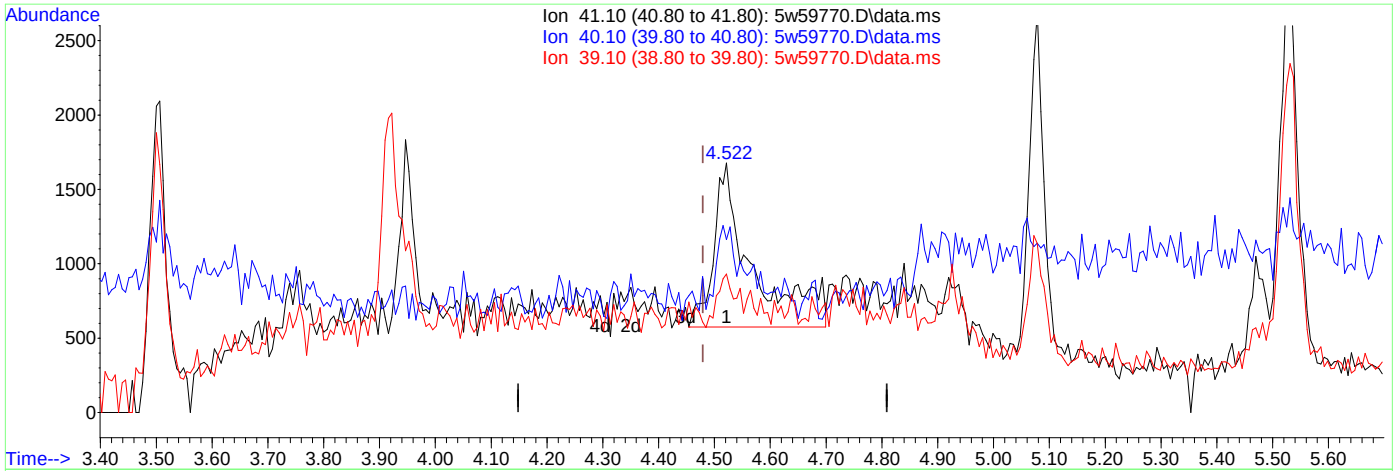
response 956

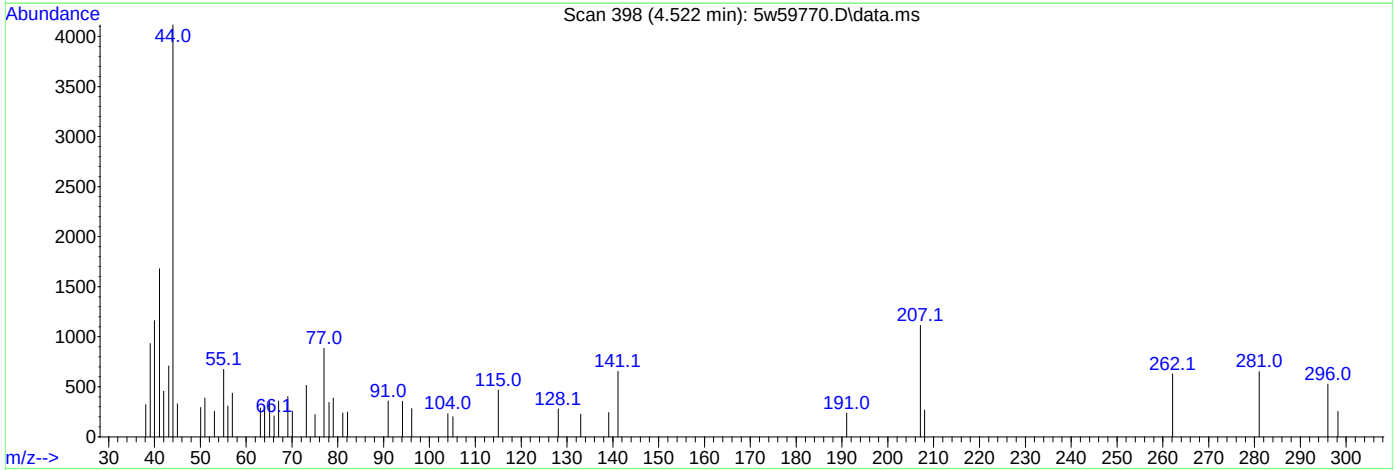
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.21PPBV

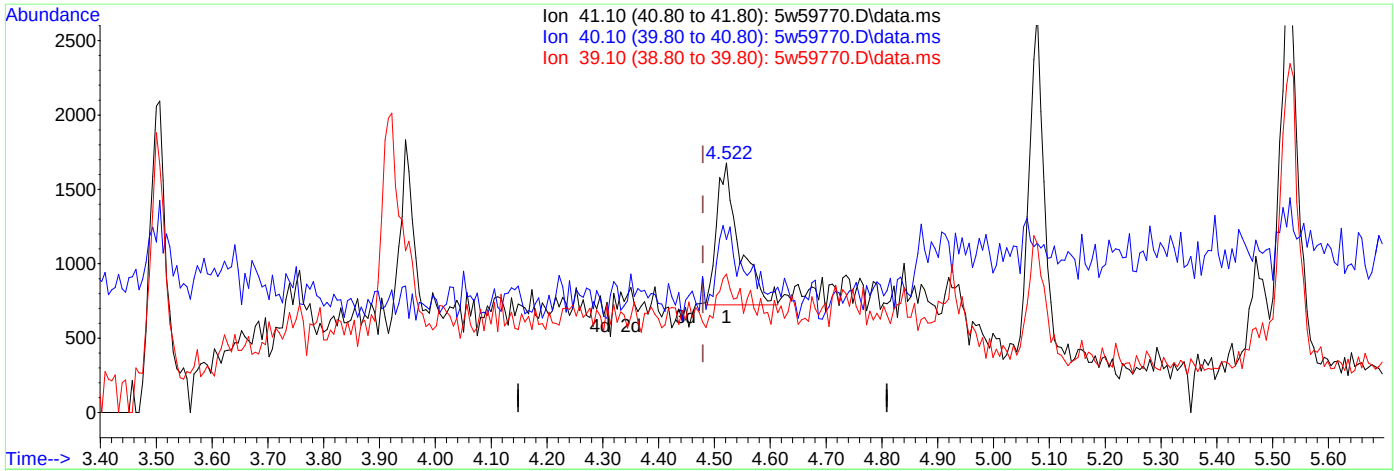
response 5252

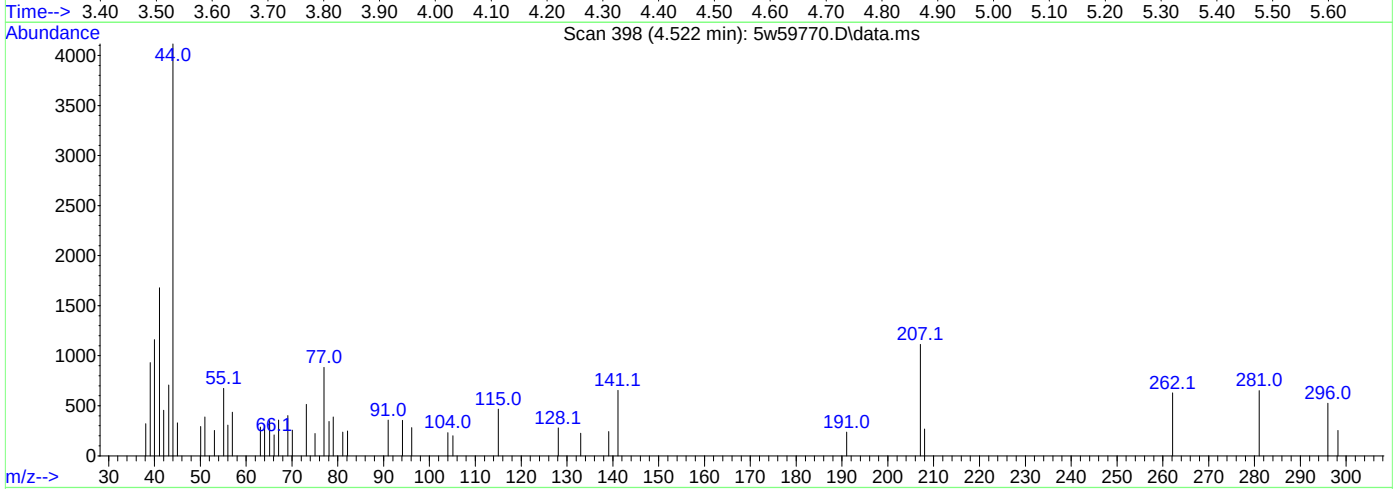
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	50.95
39.10	19.10	23.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.10PPBV m

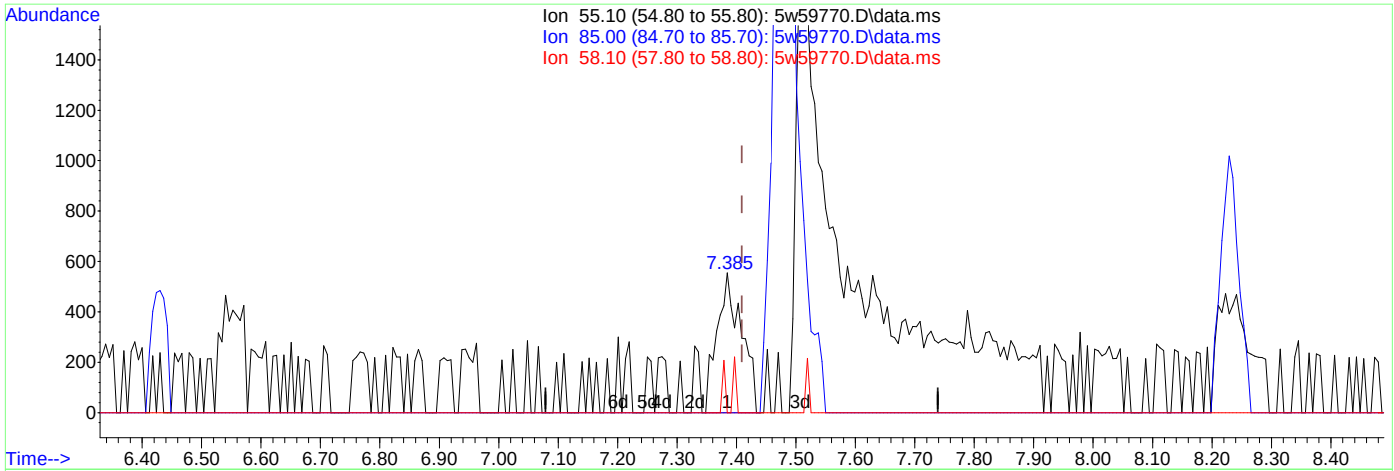
response 2670

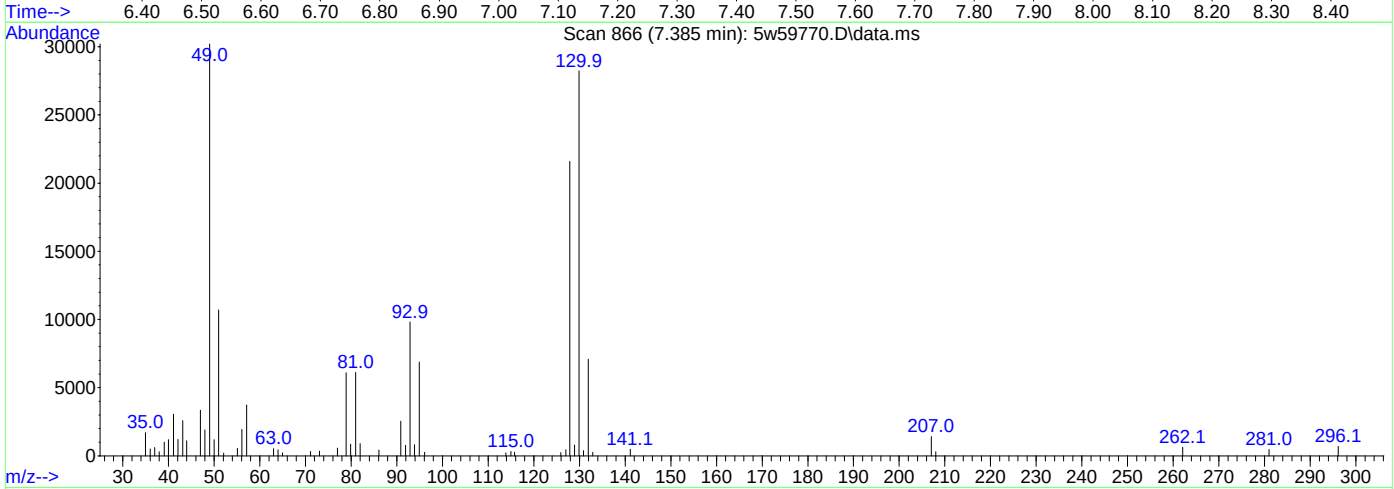
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	100.22#
39.10	19.10	46.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.02PPBV

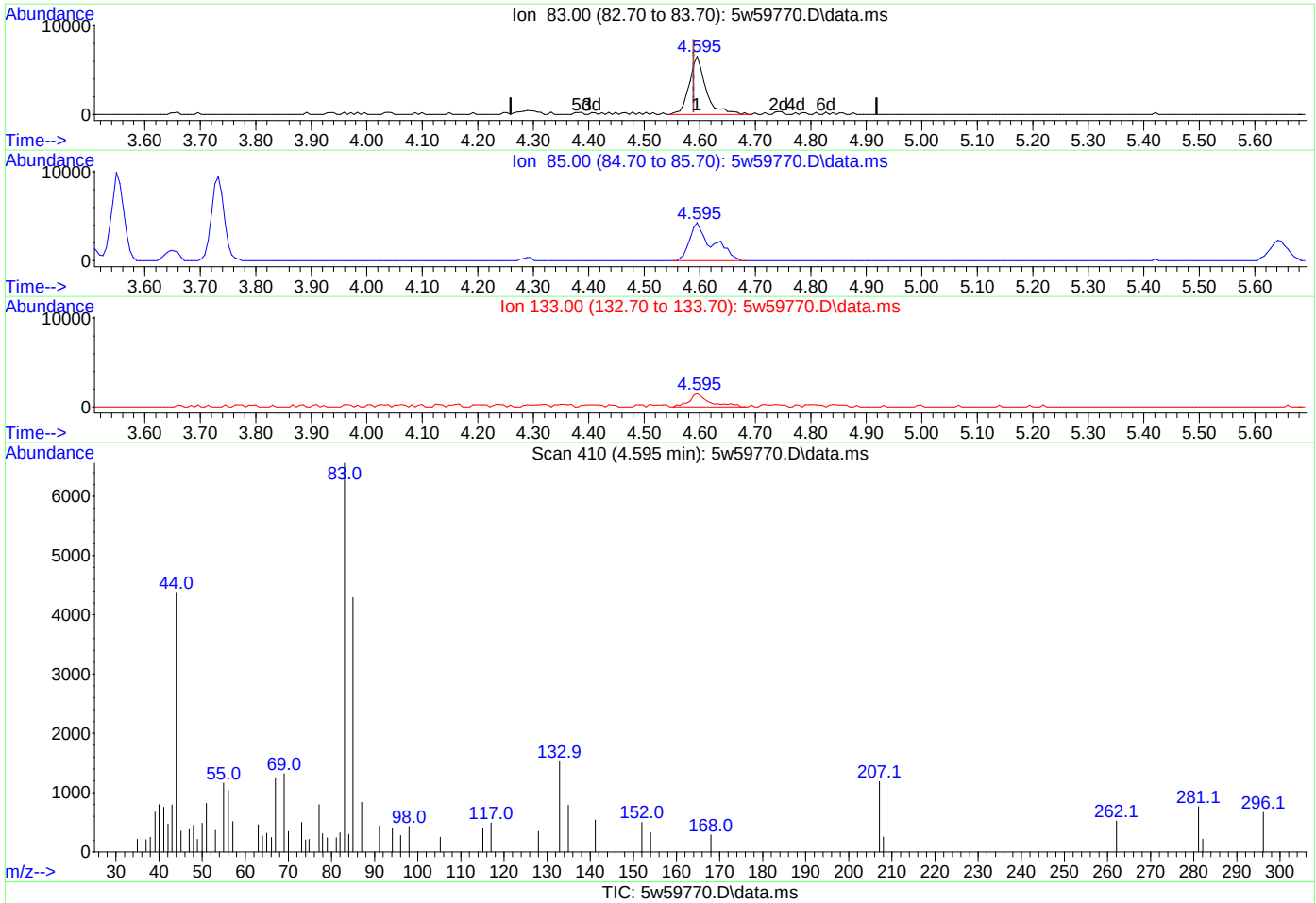
response 1598

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV

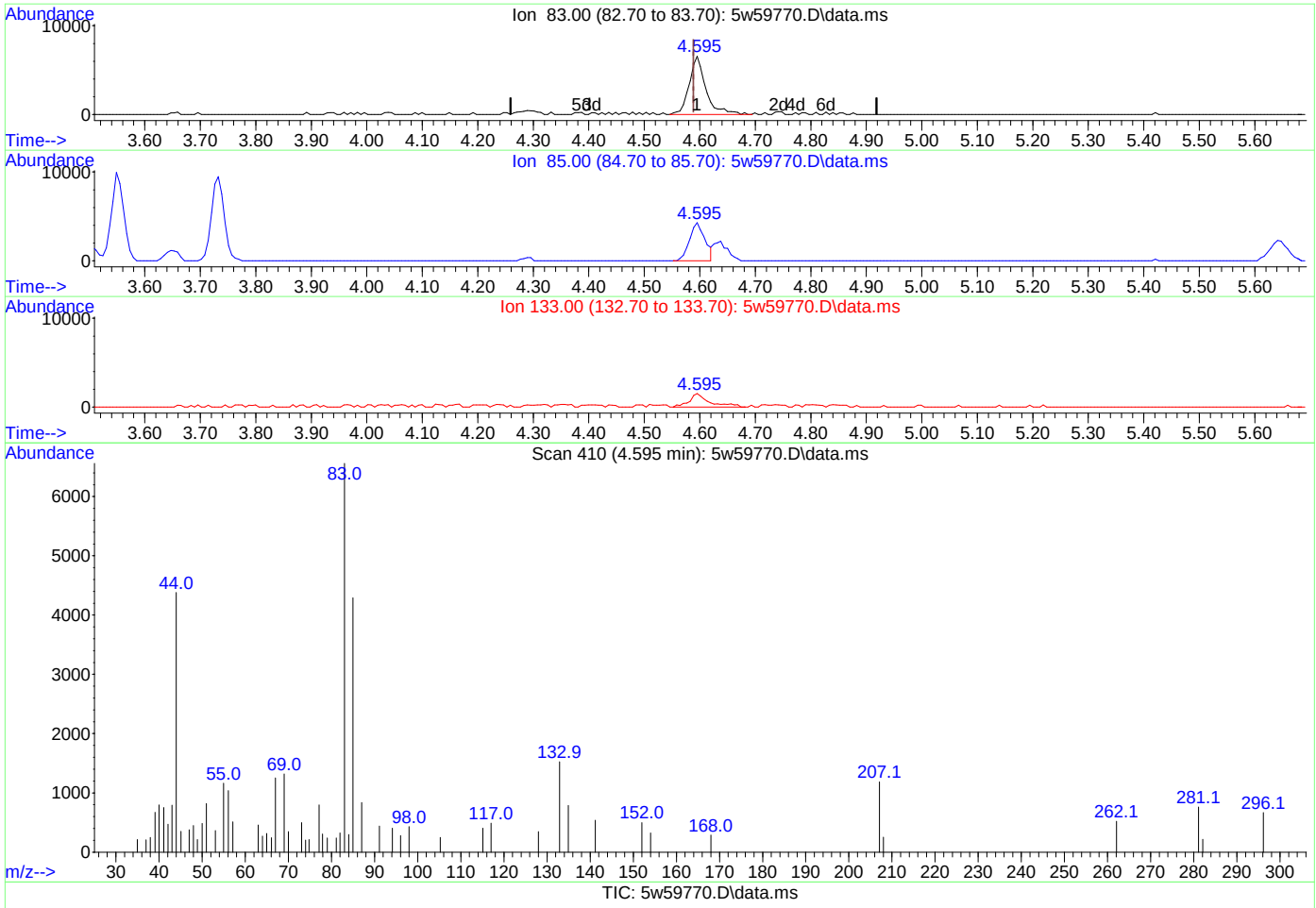
response 13808

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	87.89
133.00	20.70	28.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV m

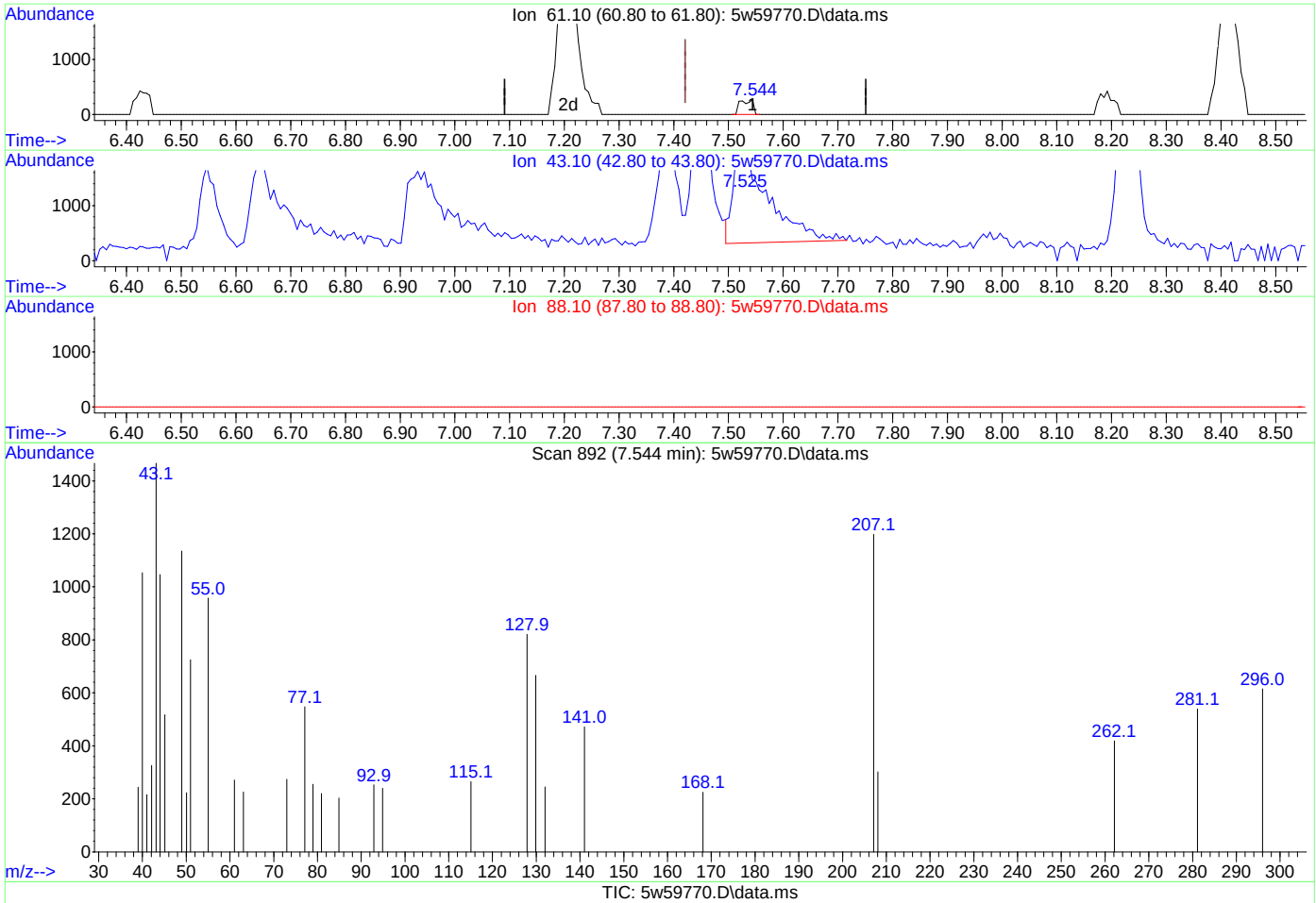
response 13808

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	60.19
133.00	20.70	28.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV

response 434

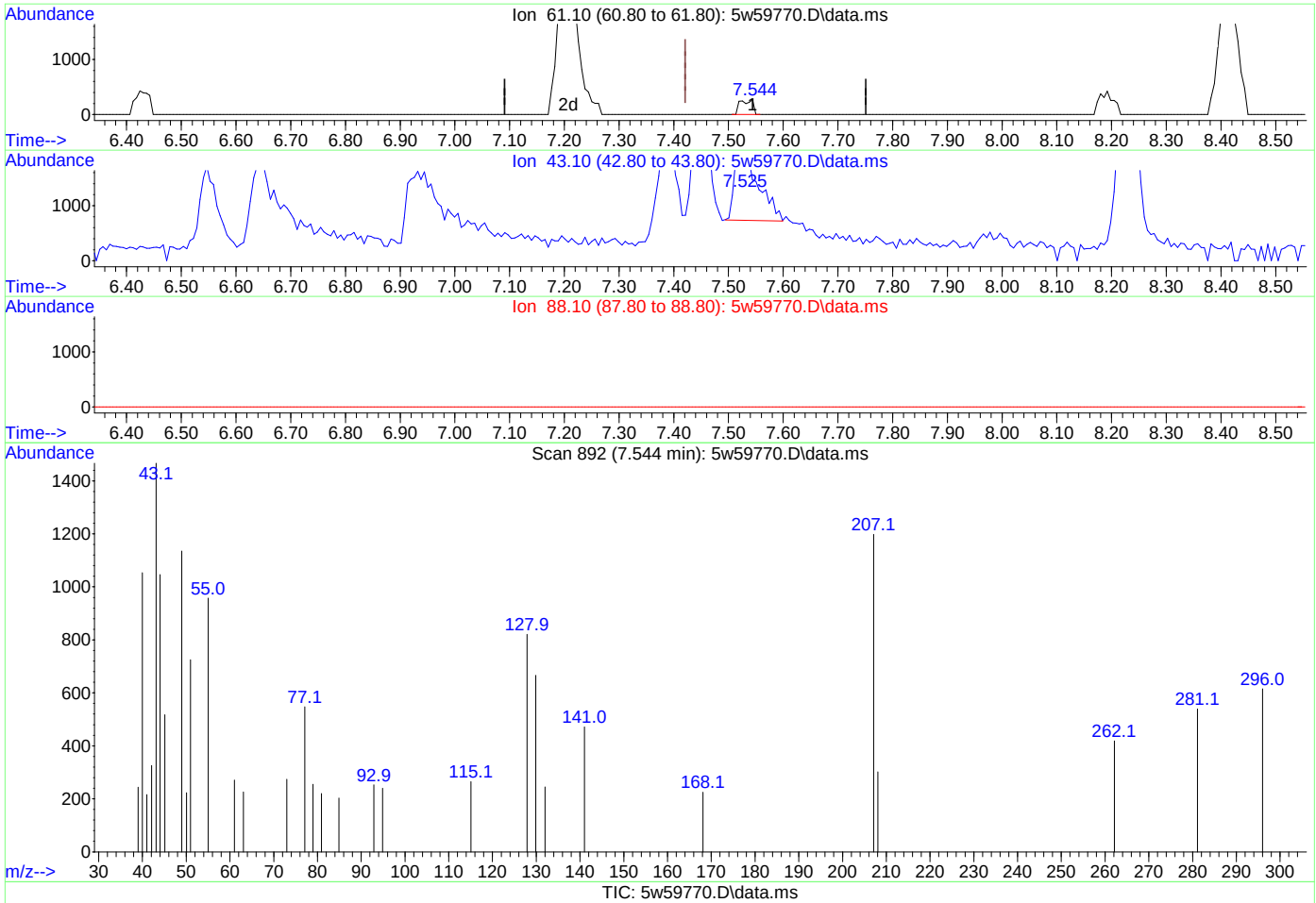
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1705.99#
88.10	34.50	0.00#
0.00	0.00	0.00

5W59770.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV m

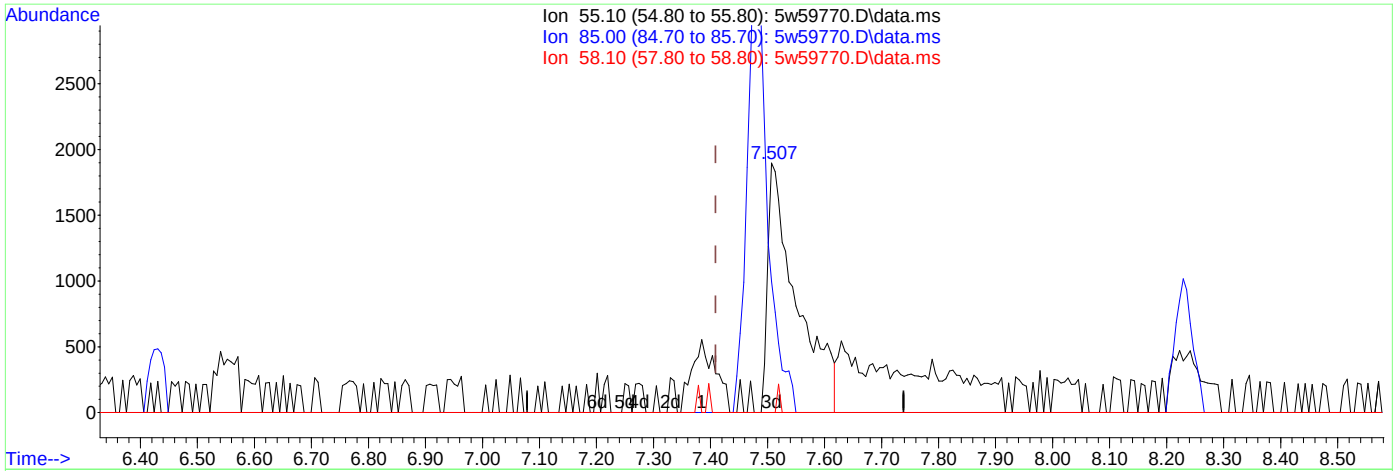
response 434

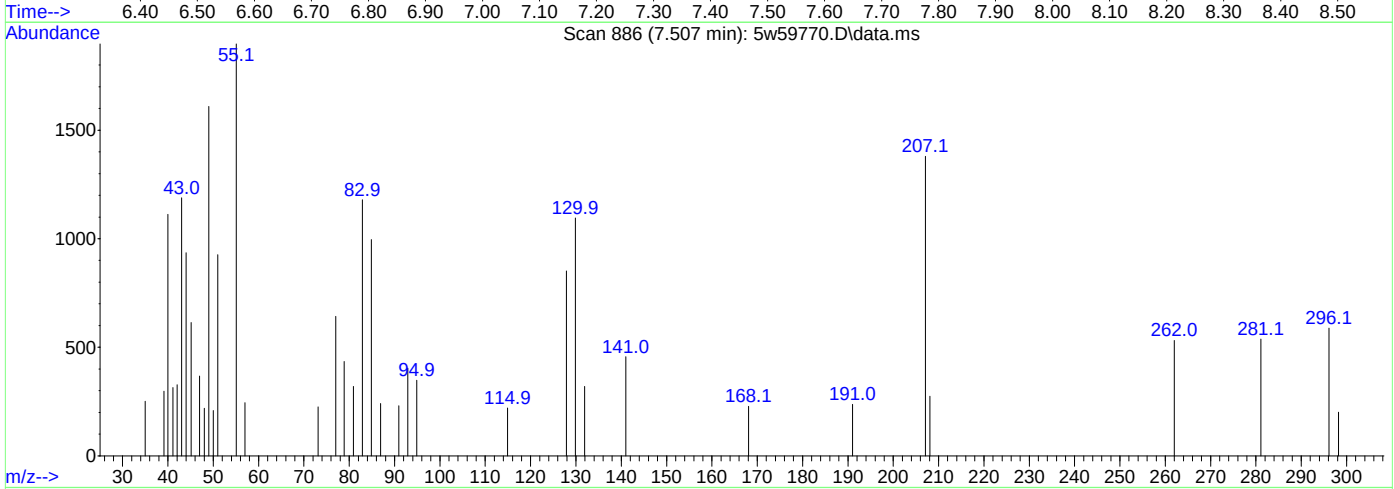
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	829.03#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:51:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.507min (+0.098) 0.08PPBV m

response 6719

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	467597	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2126307	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1045384	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	471090	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1427663	11.16	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.60%				
Target Compounds							Qvalue
2) FREON 115	3.372	119	4412	0.12	PPBV		95
3) FREON 152A	3.445	65	7777	0.24	PPBV		98
4) CHLORODIFLUOROMETHANE	3.482	67	3190	0.21	PPBV		100
5) CHLOROTRIFLUOROETHENE	3.506	116	14712	0.20	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	29673	0.22	PPBV		99
7) PROPYLENE	3.506	41	8750	0.24	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	25496	0.24	PPBV		98
9) FREON 114	3.733	85	30048	0.24	PPBV		100
10) CHLOROMETHANE	3.665	52	3463	0.25	PPBV	#	84
11) VINYL CHLORIDE	3.818	62	10347	0.23	PPBV		91
12) 1,3-BUTADIENE	3.916	54	6663	0.25	PPBV		93
13) n-BUTANE	3.947	43	10741	0.25	PPBV	#	93
14) BROMOMETHANE	4.106	94	10837	0.23	PPBV		77
15) CHLOROETHANE	4.228	64	5570	0.26	PPBV		90
16) DICHLOROFLUOROMETHANE	4.289	67	22344	0.23	PPBV		99
17) ACETONITRILE	4.510	41	6047	0.24	PPBV	#	74
18) ACROLEIN	4.595	56	3414m	0.24	PPBV		
19) FREON 123	4.595	83	25775m	0.24	PPBV		
20) FREON 123A	4.638	117	14980	0.23	PPBV		96
21) TRICHLOROFLUOROMETHANE	4.797	101	26063	0.22	PPBV		93
22) ISOPROPYL ALCOHOL	4.926	45	22029	0.25	PPBV		87
23) ACETONE	4.718	58	6066	0.34	PPBV		100
24) PENTANE	5.079	42	10859	0.25	PPBV		93
25) IODOMETHANE	5.256	142	32697	0.22	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.323	96	10700	0.22	PPBV		95
27) CARBON DISULFIDE	5.678	76	29507	0.22	PPBV		92
28) ETHANOL	4.344	45	12121	0.73	PPBV		98
29) BROMOETHENE	4.485	106	10750	0.22	PPBV		92
30) ACRYLONITRILE	5.085	52	7876	0.26	PPBV		94
31) METHYLENE CHLORIDE	5.427	84	11602	0.27	PPBV		97
32) 3-CHLOROPROPENE	5.525	76	4977	0.22	PPBV		98
33) FREON 113	5.647	151	17747	0.21	PPBV		95
34) TRANS-1,2-DICHLOROETHY...	6.247	96	11590	0.22	PPBV		85
35) TERTIARY BUTYL ALCOHOL	5.464	59	19541	0.20	PPBV		97
36) METHYL TERTIARY BUTYL ...	6.541	73	29335	0.23	PPBV		89
37) TETRAHYDROFURAN	7.954	72	3172	0.16	PPBV	#	59
38) HEXANE	7.385	57	18650	0.26	PPBV	#	77
39) VINYL ACETATE	6.620	86	653	0.09	PPBV	#	1
40) 1,1-DICHLOROETHANE	6.431	63	21909	0.23	PPBV		96
41) METHYL ETHYL KETONE	6.902	72	2781	0.14	PPBV	#	80
42) cis-1,2-DICHLOROETHYLENE	7.207	96	12027	0.22	PPBV		91
43) DIISOPROPYL ETHER	7.440	59	3909	0.18	PPBV	#	53
44) ETHYL ACETATE	7.501	61	2309m	0.15	PPBV		
45) METHYL ACRYLATE	7.489	55	14366m	0.17	PPBV		
46) CHLOROFORM	7.483	83	23090	0.22	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	18643	0.22	PPBV		100
48) 1,1,1-TRICHLOROETHANE	8.413	97	24304	0.22	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	25552	0.21	PPBV		100
50)	1,2-DICHLOROETHANE	8.186	62	16304	0.22	PPBV		94
52)	BENZENE	8.859	78	30072	0.21	PPBV		99
53)	CYCLOHEXANE	9.110	84	12037	0.20	PPBV		94
54)	2,3-DIMETHYLPENTANE	9.355	71	5961	0.20	PPBV		91
55)	TRICHLOROETHYLENE	9.899	95	14290	0.19	PPBV		99
56)	1,2-DICHLOROPROPANE	9.667	63	12562	0.20	PPBV		99
57)	DIBROMOMETHANE	9.642	174	16323	0.20	PPBV		98
58)	ETHYL ACRYLATE	9.801	55	11494m	0.10	PPBV		
59)	BROMODICHLOROMETHANE	9.856	83	25637	0.20	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	49437	0.21	PPBV		95
61)	1,4-DIOXANE	9.997	88	7396	0.22	PPBV	#	1
62)	HEPTANE	10.193	43	19280	0.24	PPBV		92
63)	METHYL METHACRYLATE	10.175	69	8860	0.18	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.890	58	6548	0.14	PPBV	#	70
65)	cis-1,3-DICHLOROPROPENE	10.774	75	20672	0.20	PPBV		93
66)	TOLUENE	11.735	92	21289	0.19	PPBV		93
67)	1,3-DICHLOROPROPANE	11.777	76	18562m	0.21	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.312	75	19068	0.20	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.465	83	11660	0.19	PPBV		99
71)	2-HEXANONE	12.169	58	9038m	0.16	PPBV		
72)	ETHYL METHACRYLATE	12.083	69	14602	0.19	PPBV	#	86
73)	TETRACHLOROETHYLENE	12.879	164	16678	0.23	PPBV		96
74)	DIBROMOCHLOROMETHANE	12.163	129	26574	0.21	PPBV		99
75)	1,2-DIBROMOETHANE	12.414	107	22241	0.22	PPBV		100
76)	OCTANE	12.750	43	23489	0.25	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	17410	0.21	PPBV		95
78)	CHLOROBENZENE	13.588	112	29927	0.23	PPBV		100
79)	ETHYLBENZENE	14.004	91	48060	0.24	PPBV		96
80)	m,p-XYLENE	14.188	106	36141	0.45	PPBV		97
81)	o-XYLENE	14.689	106	17278	0.23	PPBV		90
82)	STYRENE	14.598	104	26105	0.21	PPBV		86
83)	NONANE	14.934	43	25033	0.26	PPBV		94
84)	BROMOFORM	14.261	173	25461	0.20	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.696	83	30281	0.23	PPBV		97
87)	1,2,3-TRICHLOROPROPANE	14.836	75	24248	0.24	PPBV		93
88)	ISOPROPYLBENZENE	15.307	105	52329	0.23	PPBV		98
89)	BROMOBENZENE	15.393	77	27933	0.24	PPBV		92
90)	2-CHLOROTOLUENE	15.785	126	13598	0.21	PPBV		86
91)	n-PROPYLBENZENE	15.827	120	13388	0.21	PPBV		99
92)	4-ETHYLTOLUENE	15.974	105	48336	0.22	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.048	105	48446	0.26	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.219	118	19855	0.19	PPBV		97
95)	tert-BUTYLBENZENE	16.433	134	8909	0.22	PPBV	#	87
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	44191	0.24	PPBV		99
97)	m-DICHLOROBENZENE	16.592	146	29601	0.20	PPBV		98
98)	BENZYL CHLORIDE	16.586	91	33418	0.19	PPBV		96
99)	p-DICHLOROBENZENE	16.659	146	36208	0.24	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	11583	0.23	PPBV		91
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	45724	0.24	PPBV		94
102)	p-ISOPROPYLTOLUENE	16.867	134	13423	0.23	PPBV		93
103)	o-DICHLOROBENZENE	16.990	146	31360	0.22	PPBV		98
104)	n-BUTYLBENZENE	17.271	134	12074	0.20	PPBV	#	83
105)	HEXACHLOROETHANE	17.608	117	22122	0.23	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	30270	0.23	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.898	180	27720	0.21	PPBV		97
108)	NAPHTHALENE	18.678	128	62904	0.22	PPBV		97
110)	TVHC as equiv Pentane	5.079	TIC	73523	0.25	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

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

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

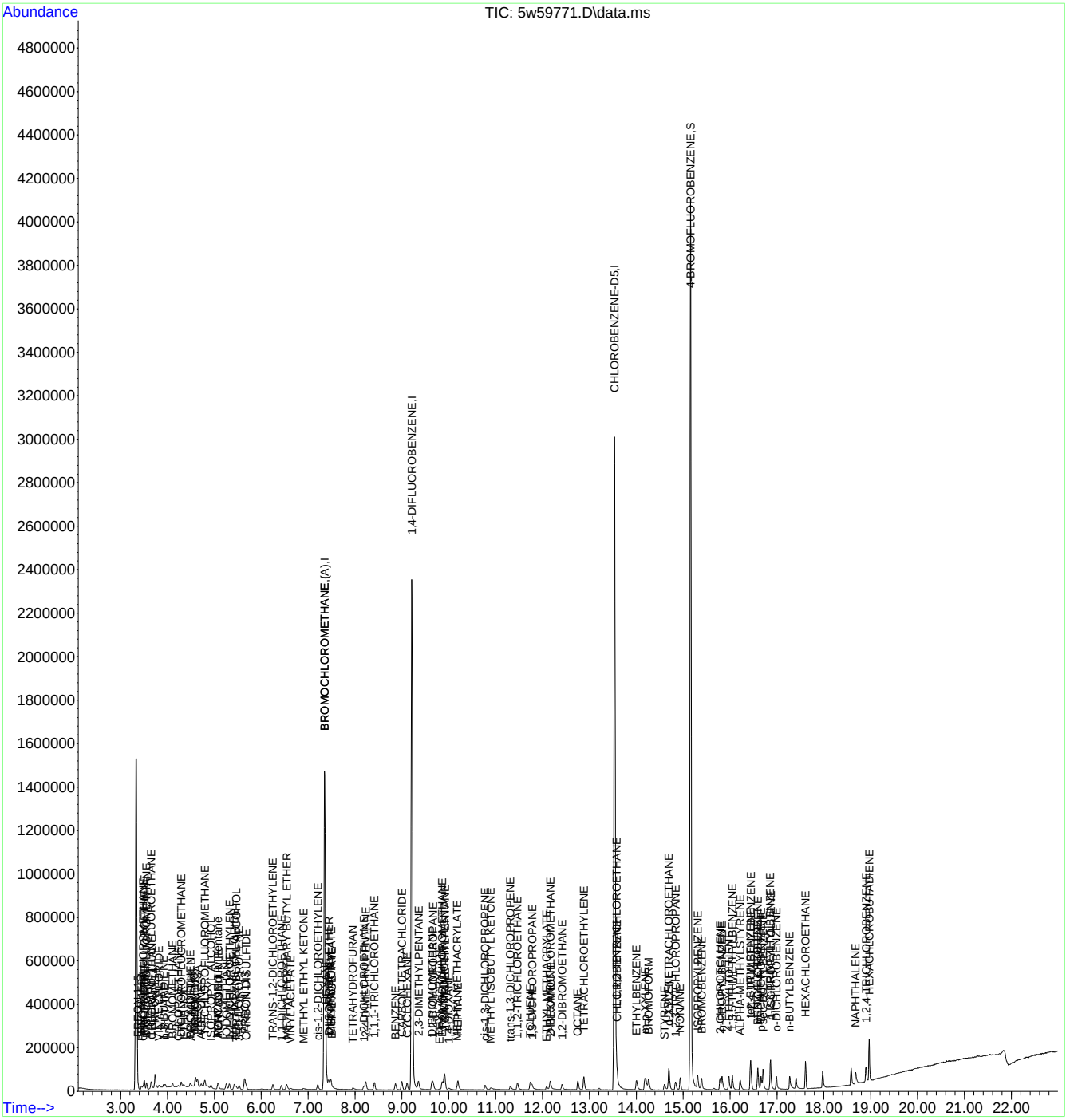
7.7.3

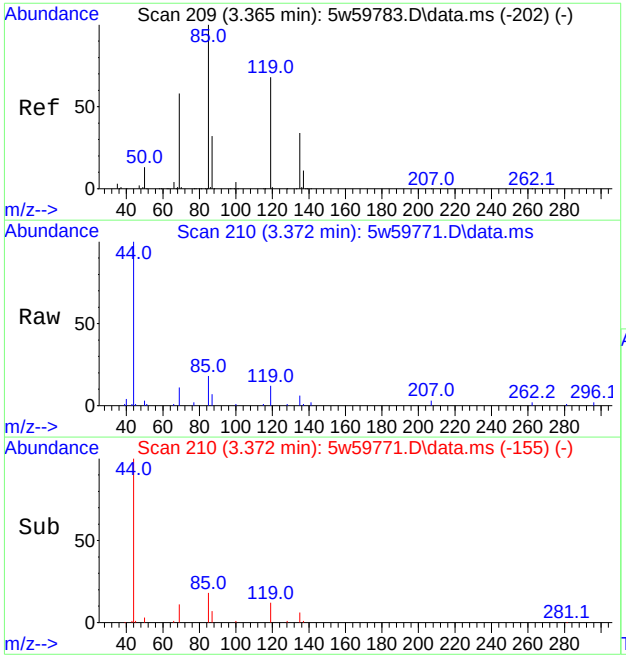
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

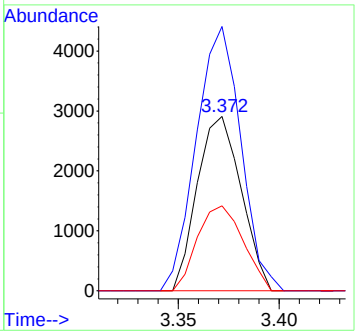


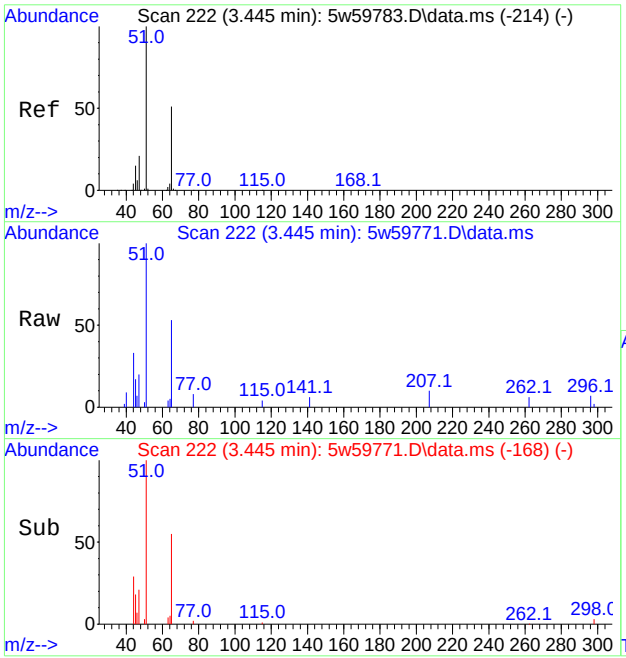


#2
FREON 115
Concen: 0.12 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:119 Resp: 4412

Ion	Ratio	Lower	Upper
119	100		
85	153.9	116.2	176.2
135	50.8	20.6	80.6

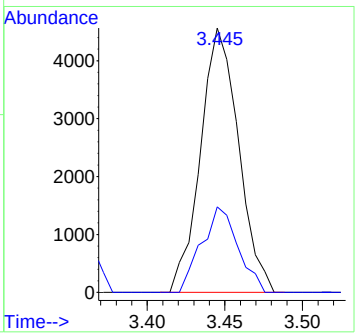


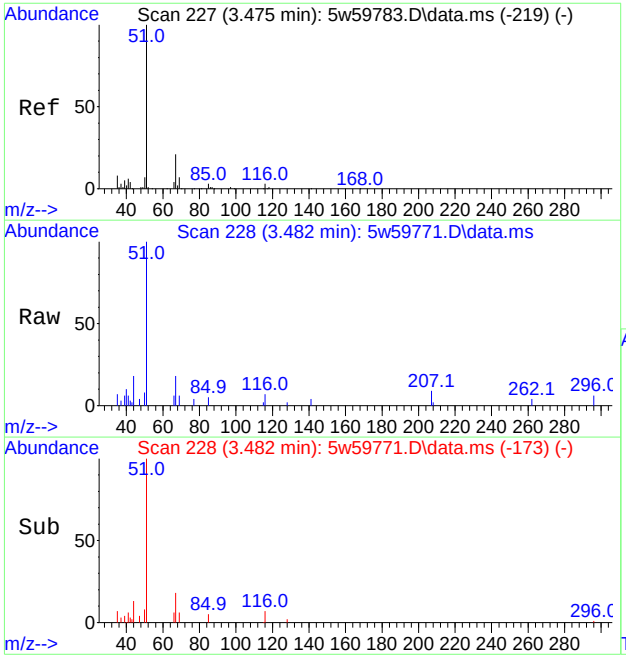


#3
FREON 152A
Concen: 0.24 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 7777

Ion	Ratio	Lower	Upper
65	100		
45	30.9	0.0	60.0

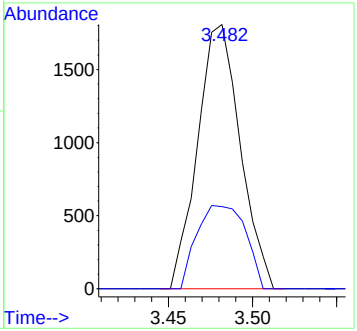


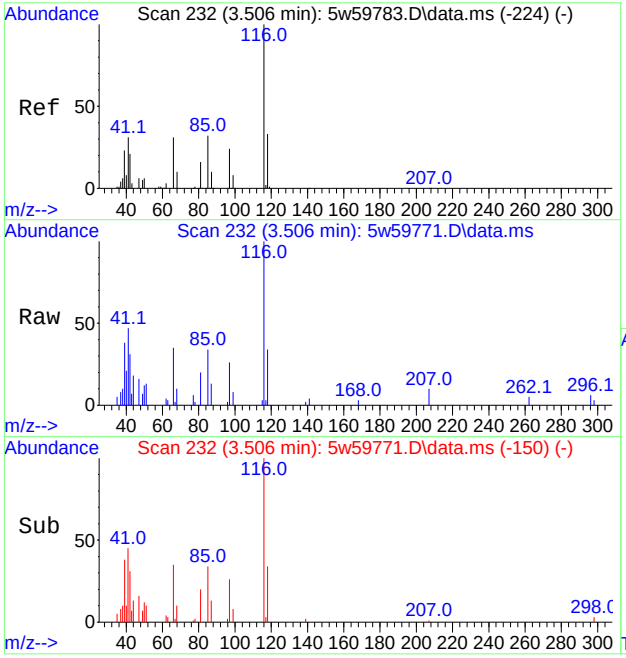


#4
CHLORODIFLUOROMETHANE
Concen: 0.21 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 3190

Ion	Ratio	Lower	Upper
67	100		
69	31.1	1.0	61.0

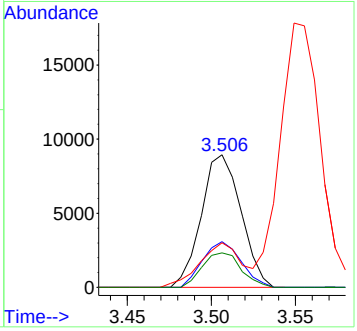


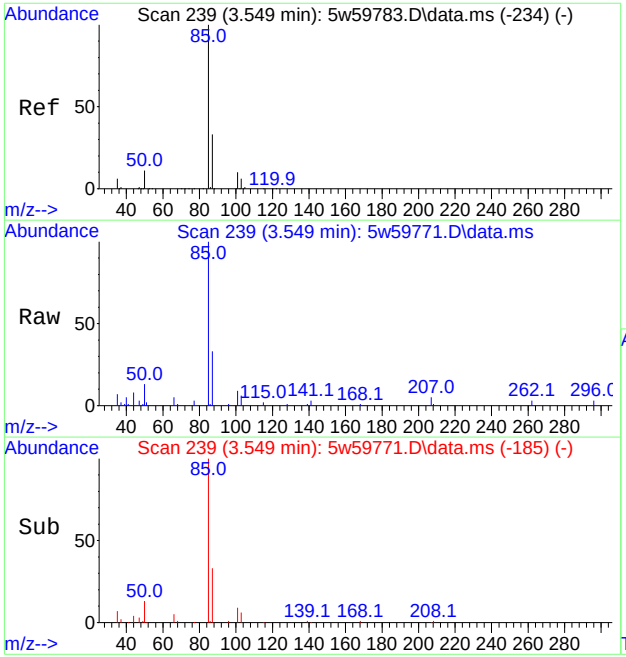


#5
CHLOROTRIFLUOROETHENE
Concen: 0.20 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:116 Resp: 14712

Ion	Ratio	Lower	Upper
116	100		
118	33.6	22.9	42.5
85	35.8	23.7	44.1
97	25.6	17.0	31.6

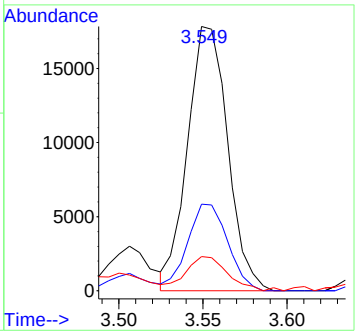


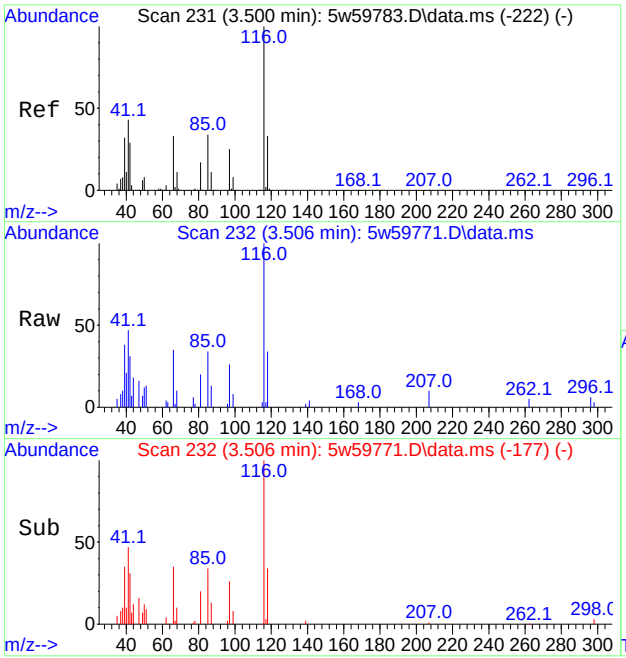


#6
DICHLORODIFLUOROMETHANE
Concen: 0.22 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 29673

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	13.3	0.0	41.7

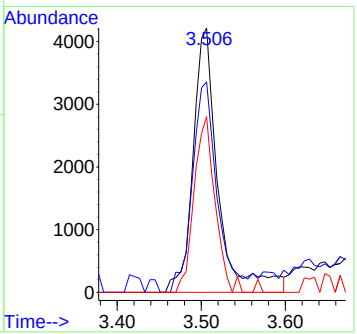


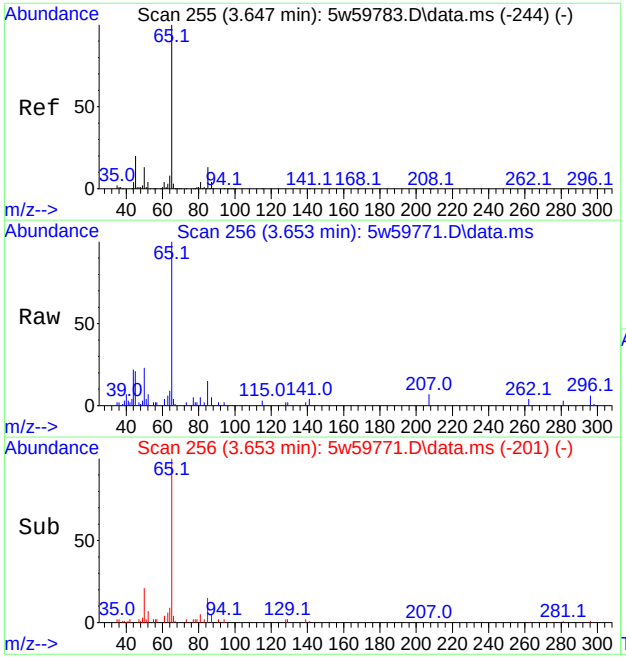


#7
PROPYLENE
Concen: 0.24 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 8750

Ion	Ratio	Lower	Upper
41	100		
39	85.7	45.1	105.1
42	55.7	36.3	96.3

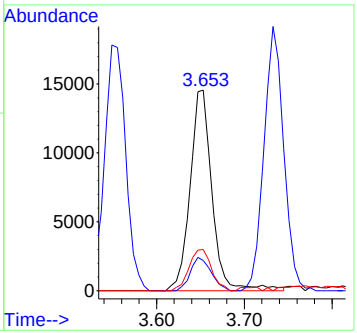


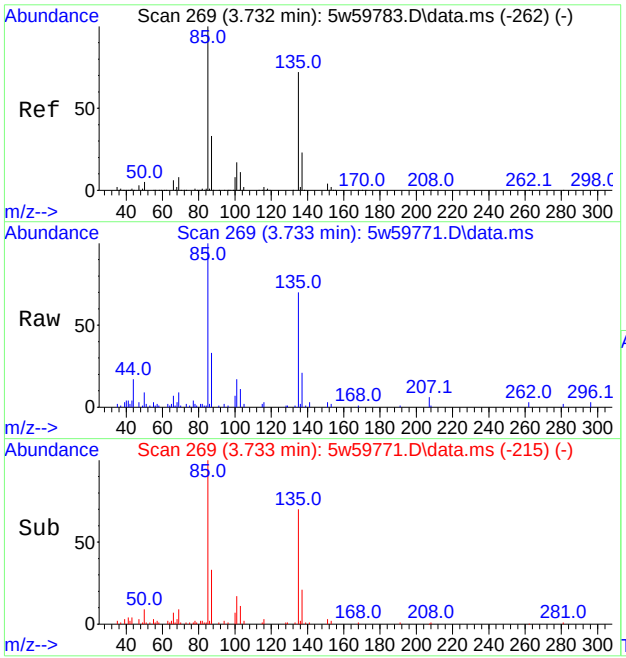


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.24 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 25496

Ion	Ratio	Lower	Upper
65	100		
85	15.6	11.5	21.3
45	21.1	14.0	26.0

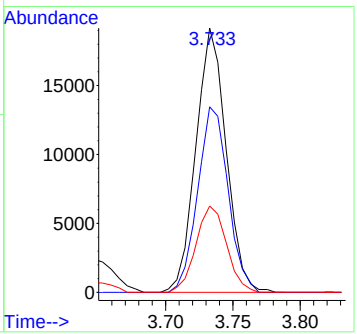


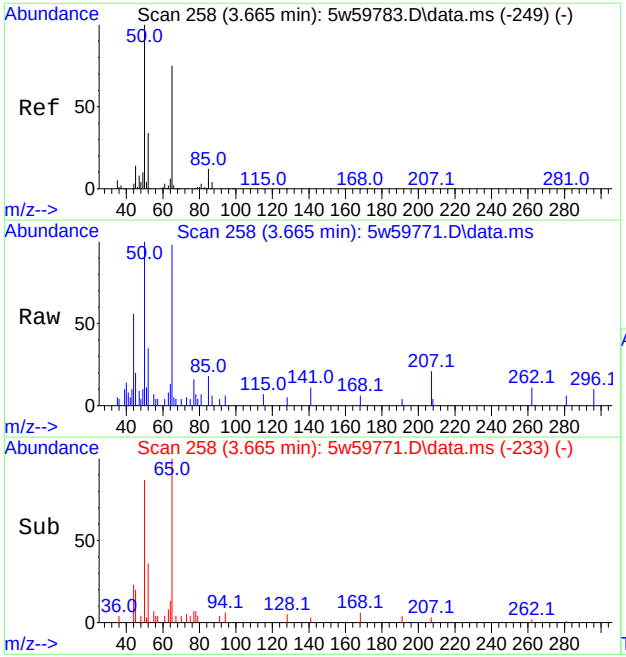


#9
FREON 114
Concen: 0.24 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 30048

Ion	Ratio	Lower	Upper
85	100		
135	70.7	40.5	100.5
87	33.1	3.0	63.0

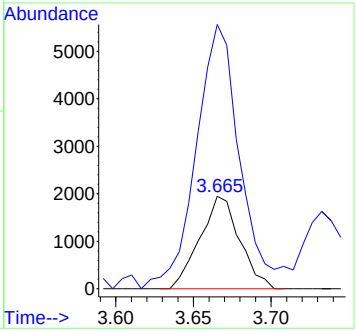


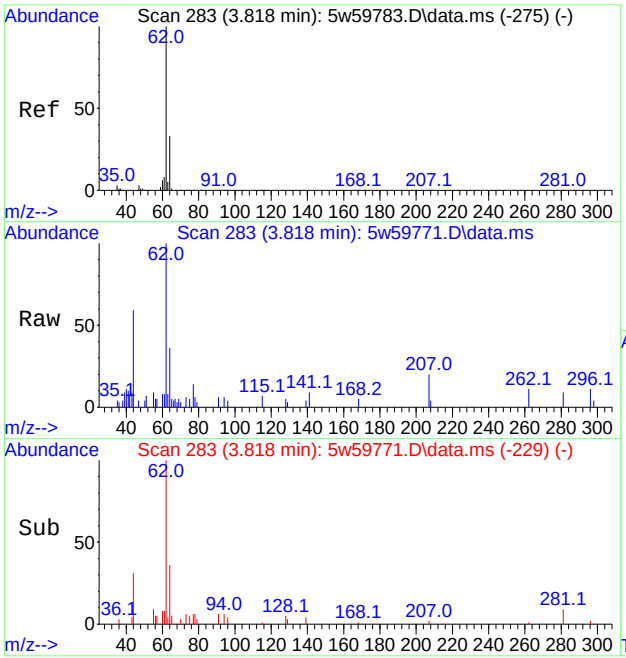


#10
CHLOROMETHANE
Concen: 0.25 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 3463

Ion	Ratio	Lower	Upper
52	100		
50	267.4	267.9	327.9#

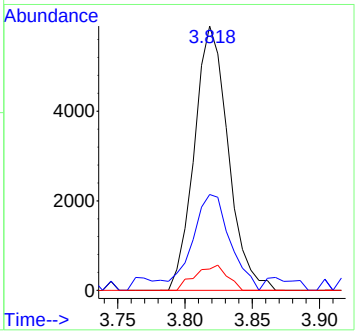




#11
VINYL CHLORIDE
Concen: 0.23 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

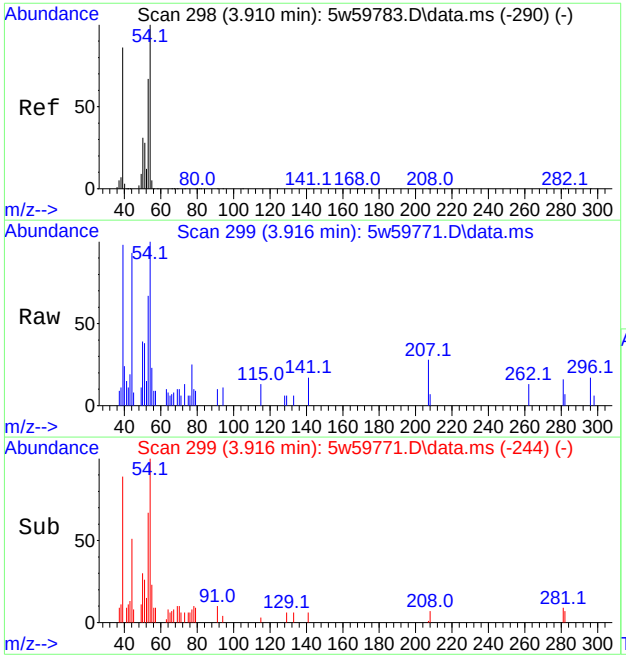
Tgt Ion: 62 Resp: 10347

Ion	Ratio	Lower	Upper
62	100		
64	39.8	3.6	63.6
61	9.1	0.0	38.2



7.7.3

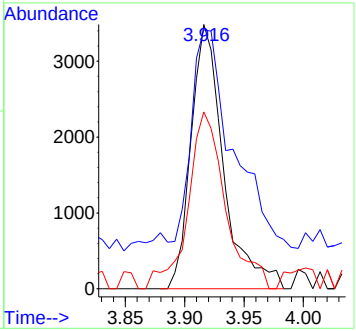
7

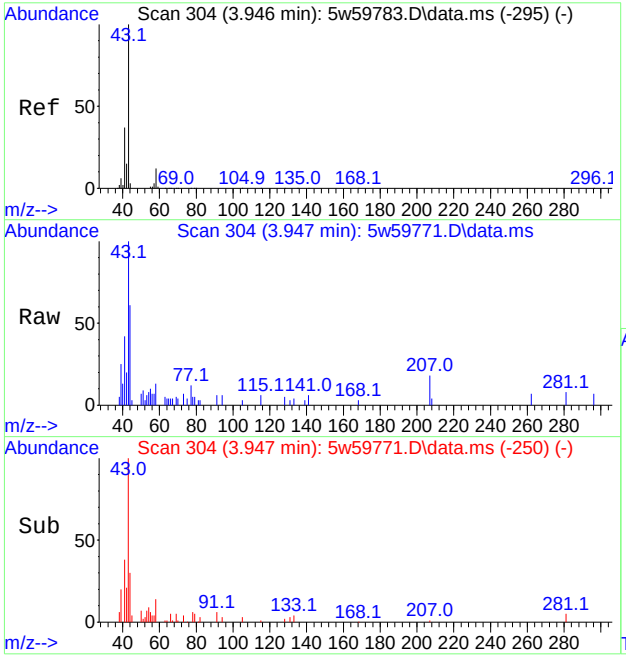


#12
1,3-BUTADIENE
Concen: 0.25 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 54 Resp: 6663

Ion	Ratio	Lower	Upper
54	100		
39	104.6	82.0	142.0
53	76.7	40.2	100.2

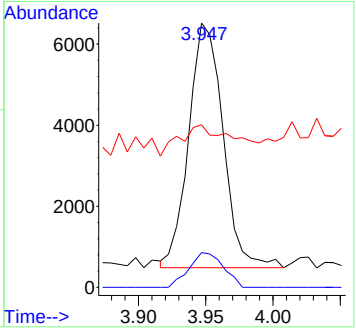


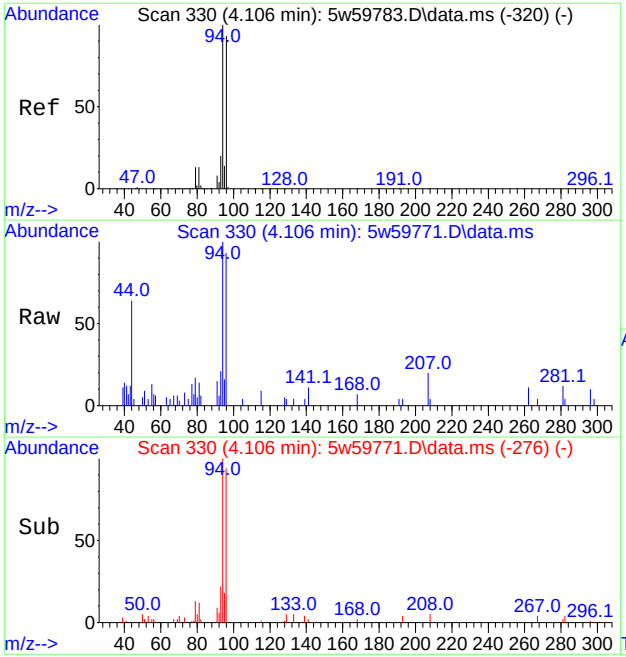


#13
n-BUTANE
Concen: 0.25 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 10741

Ion	Ratio	Lower	Upper
43	100		
58	14.2	0.0	42.6
44	0.0	0.0	34.9

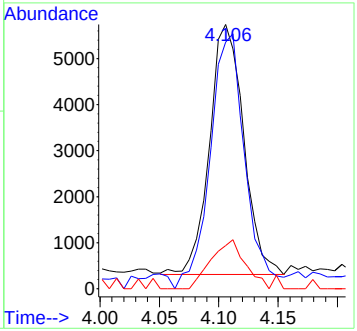


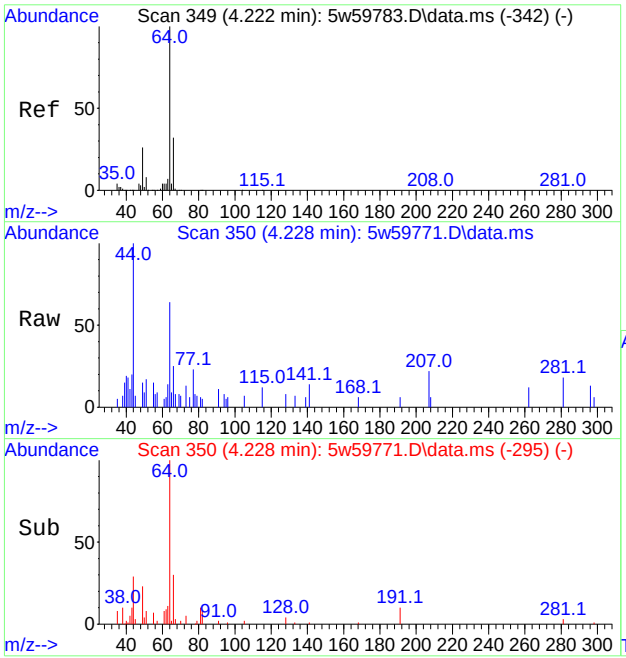


#14
BROMOMETHANE
Concen: 0.23 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 94 Resp: 10837

Ion	Ratio	Lower	Upper
94	100		
96	119.6	65.3	125.3
95	19.5	0.0	44.1

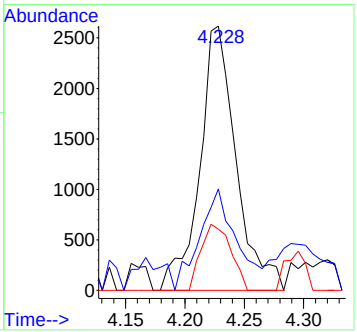


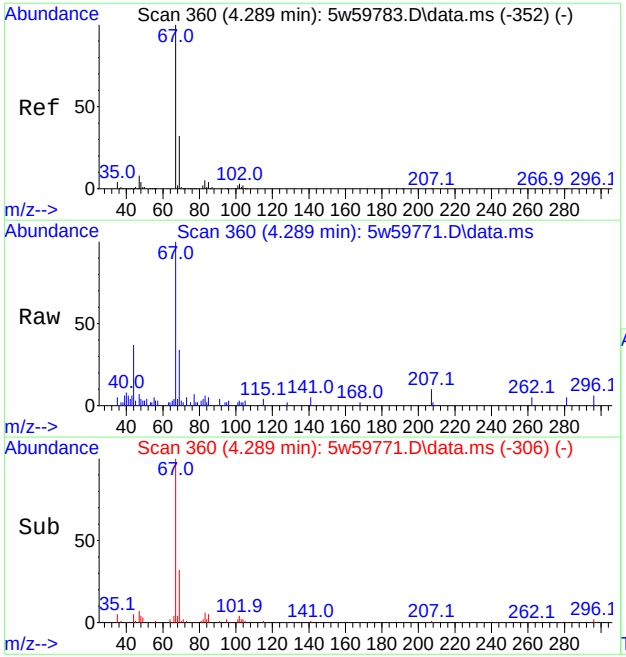


#15
CHLOROETHANE
Concen: 0.26 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 64 Resp: 5570

Ion	Ratio	Lower	Upper
64	100		
66	38.9	3.1	63.1
49	20.5	0.0	55.3

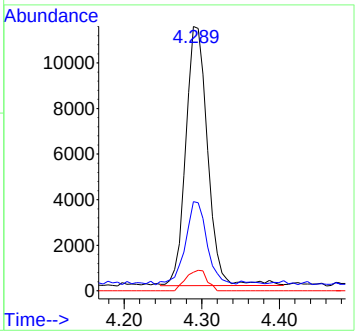


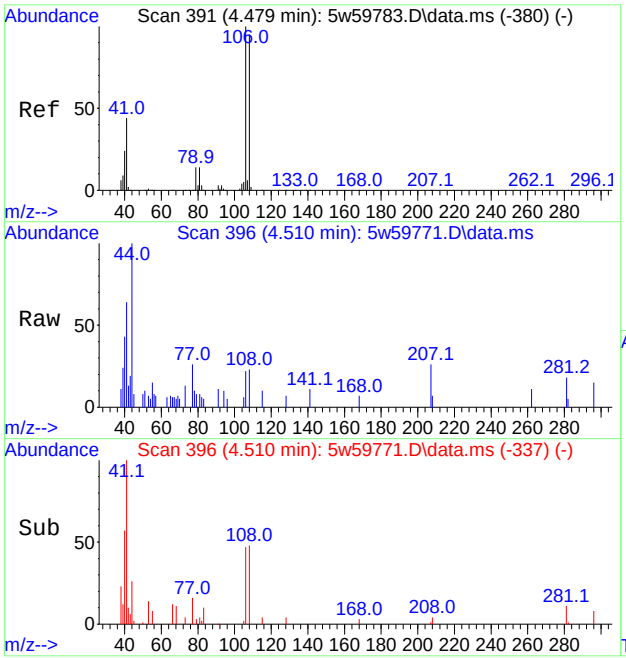


#16
DICHLOROFLUOROMETHANE
Concen: 0.23 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 22344

Ion	Ratio	Lower	Upper
67	100		
69	31.7	22.7	42.3
47	7.6	5.6	10.4

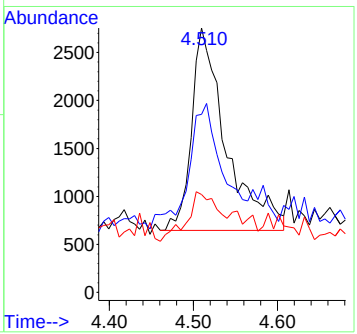


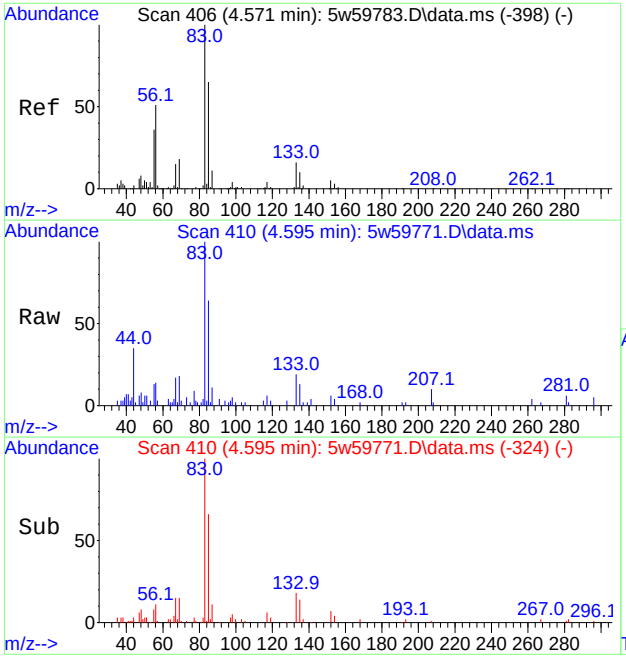


#17
ACETONITRILE
Concen: 0.24 PPBV
RT: 4.510 min Scan# 396
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 6047

Ion	Ratio	Lower	Upper
41	100		
40	72.0	37.9	70.5#
39	31.5	13.4	24.8#

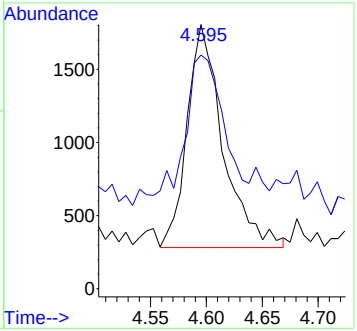


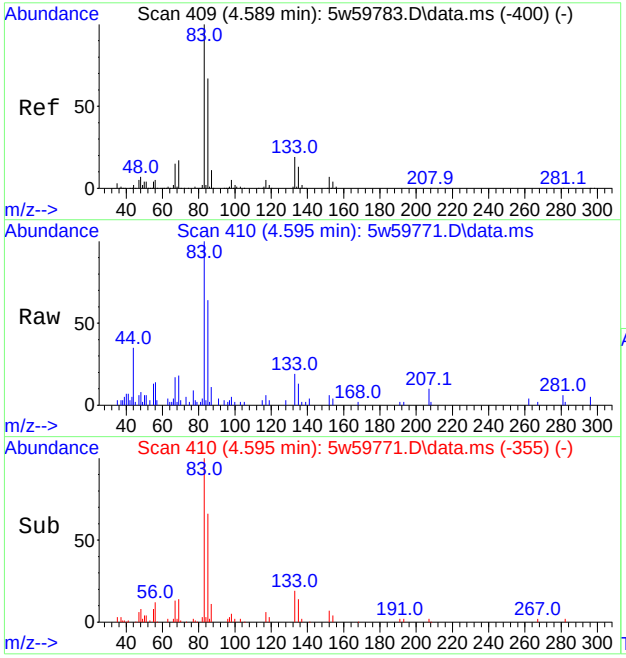


#18
ACROLEIN
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 56 Resp: 3414

Ion	Ratio	Lower	Upper
56	100		
55	99.6	46.6	86.6#

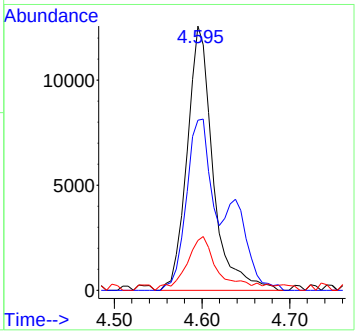


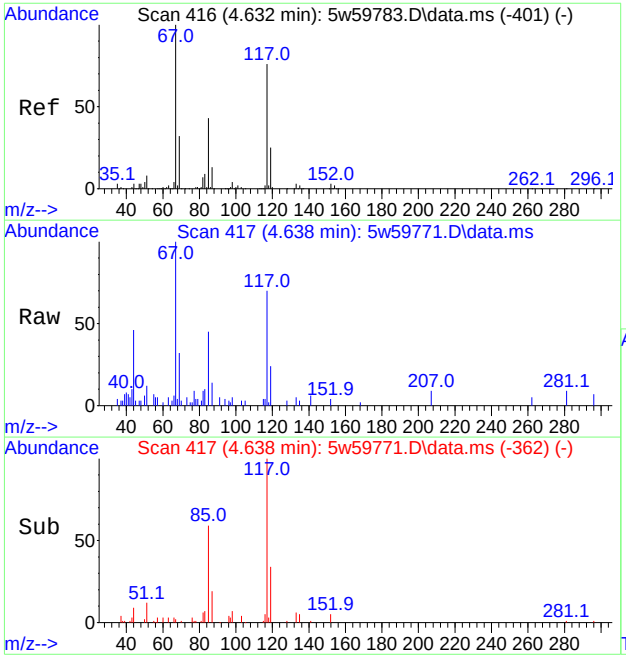


#19
FREON 123
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25775

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.0	94.0
133	26.8	0.0	50.7

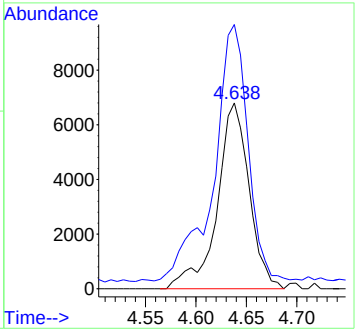


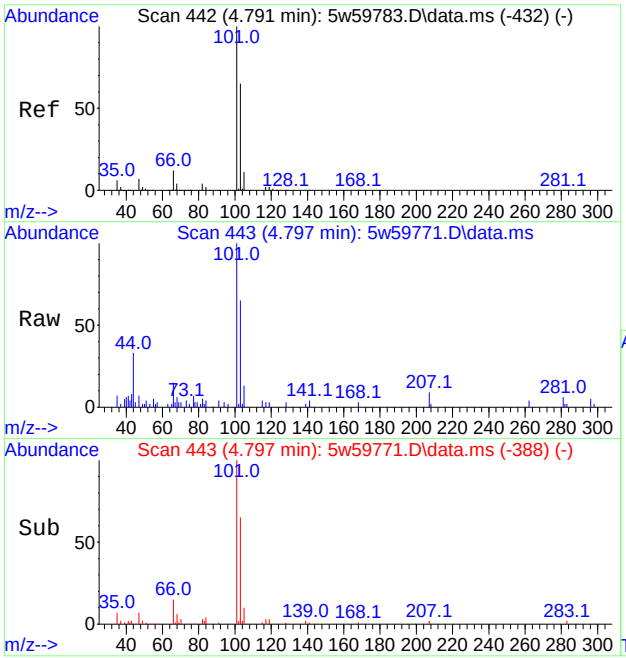


#20
FREON 123A
Concen: 0.23 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 14980

Ion	Ratio	Lower	Upper
117	100		
67	149.3	114.6	174.6

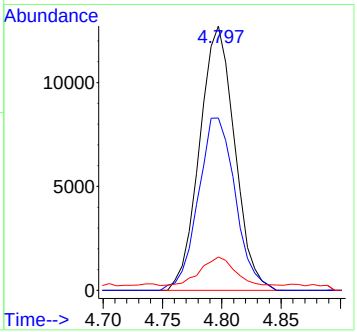


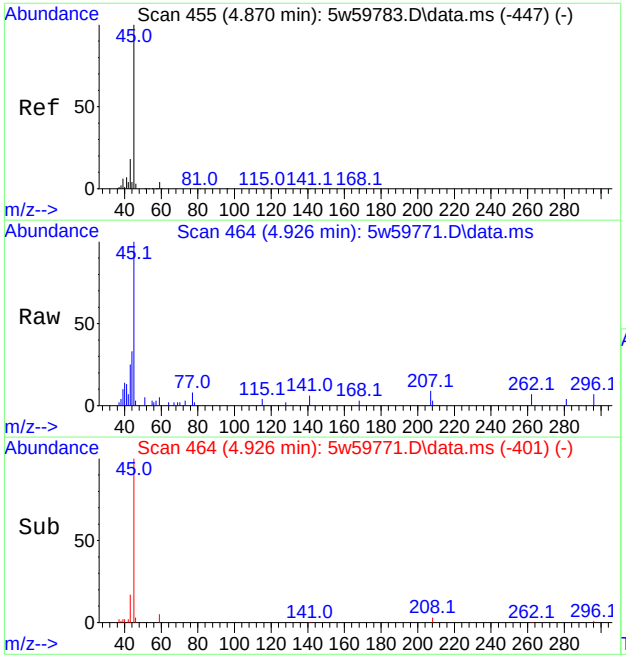


#21
TRICHLOROFLUOROMETHANE
Concen: 0.22 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:101 Resp: 26063

Ion	Ratio	Lower	Upper
101	100		
103	69.0	35.0	95.0
105	17.9	0.0	40.7

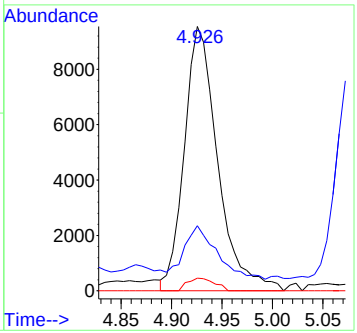


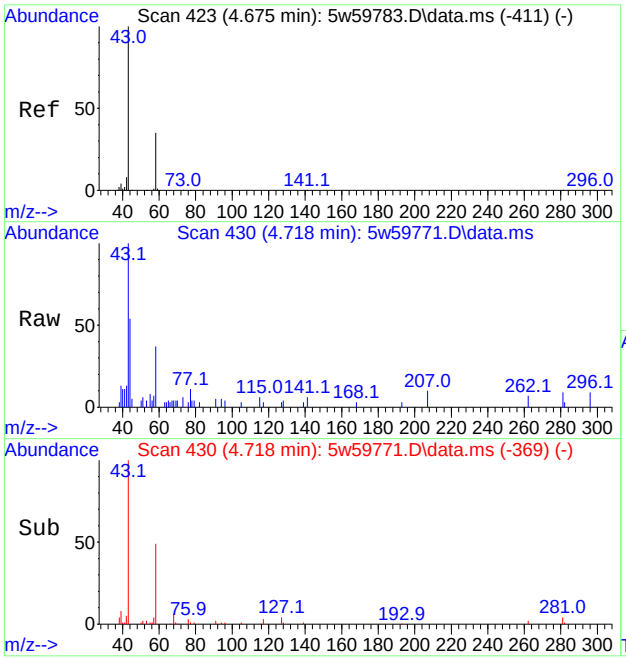


#22
ISOPROPYL ALCOHOL
Concen: 0.25 PPBV
RT: 4.926 min Scan# 464
Delta R.T. 0.056 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 22029

Ion	Ratio	Lower	Upper
45	100		
43	24.6	0.0	47.8
59	4.8	0.0	34.1

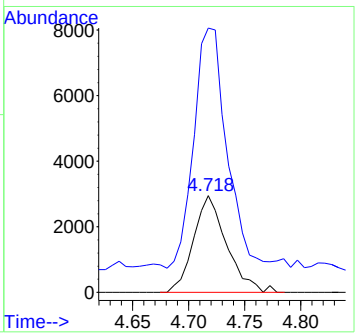


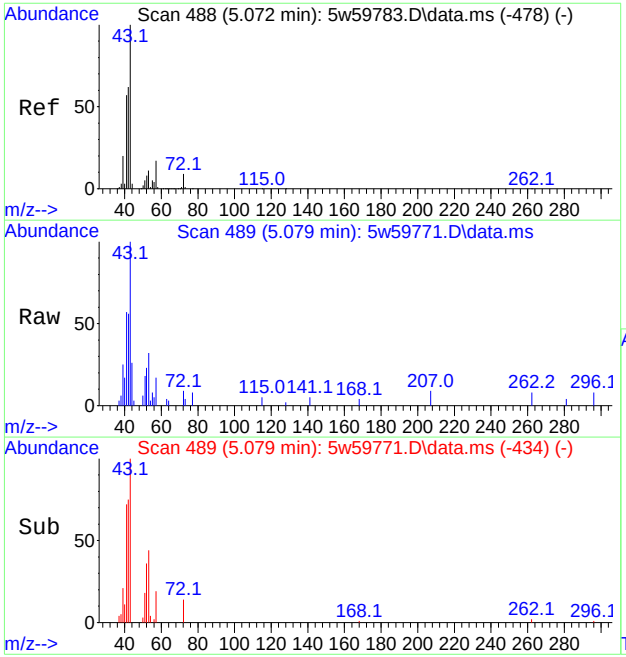


#23
ACETONE
Concen: 0.34 PPBV
RT: 4.718 min Scan# 430
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6066

Ion	Ratio	Lower	Upper
58	100		
43	283.0	252.3	312.3

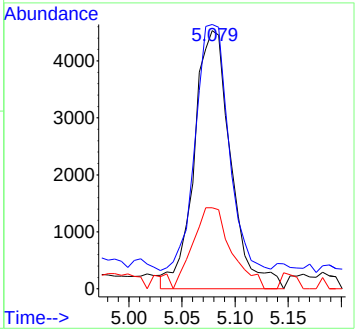


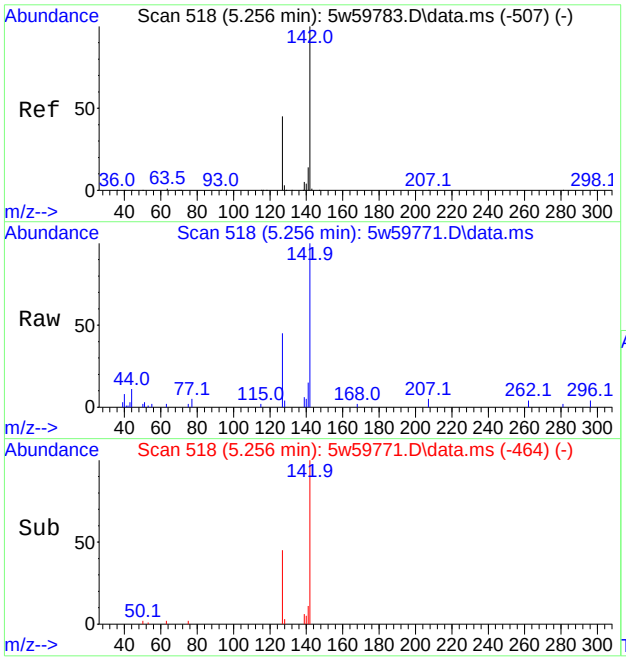


#24
PENTANE
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 42 Resp: 10859

Ion	Ratio	Lower	Upper
42	100		
41	86.3	62.3	122.3
57	32.8	0.0	57.7

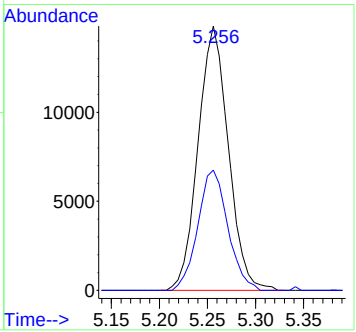


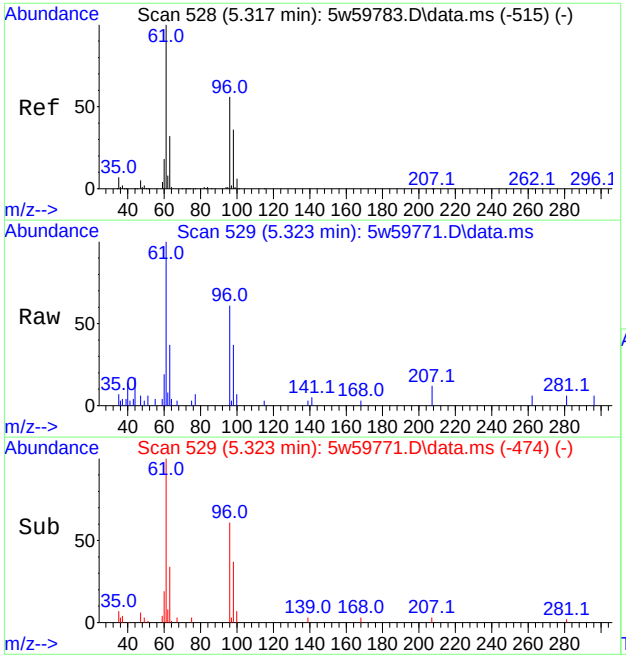


#25
IODOMETHANE
Concen: 0.22 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:142 Resp: 32697

Ion	Ratio	Lower	Upper
142	100		
127	45.0	16.0	76.0

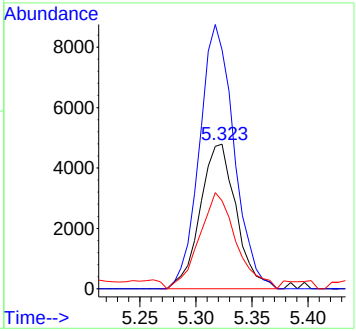


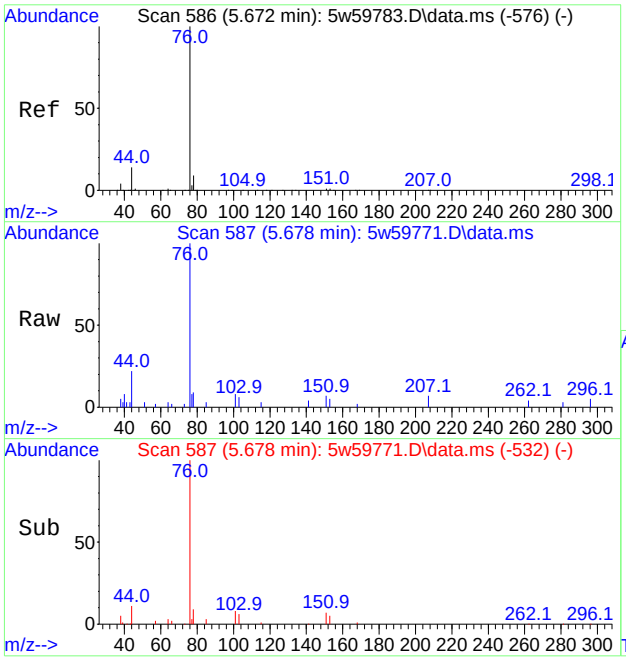


#26
1,1-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 10700

Ion	Ratio	Lower	Upper
96	100		
61	175.5	148.5	208.5
63	67.6	27.4	87.4

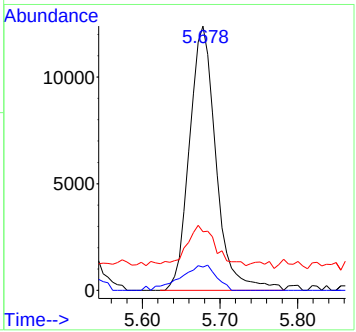


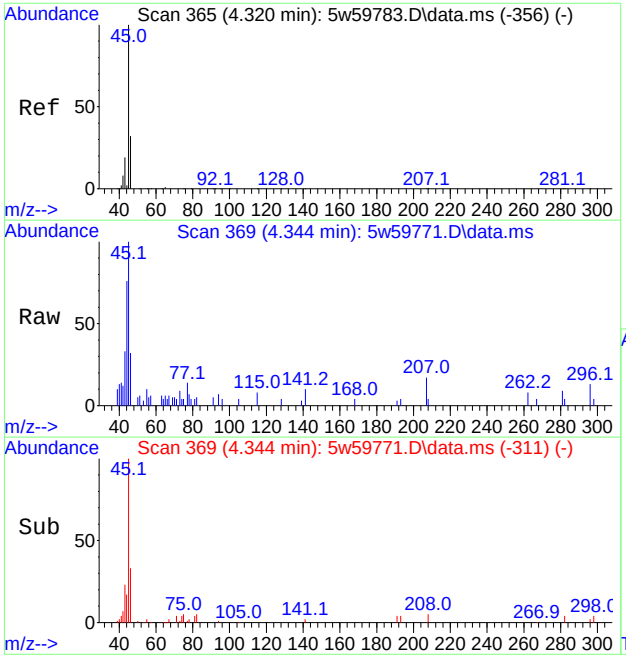


#27
CARBON DISULFIDE
Concen: 0.22 PPBV
RT: 5.678 min Scan# 587
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 29507

Ion	Ratio	Lower	Upper
76	100		
78	12.8	0.0	41.5
44	19.7	0.0	44.6

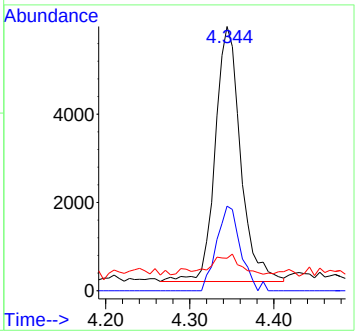


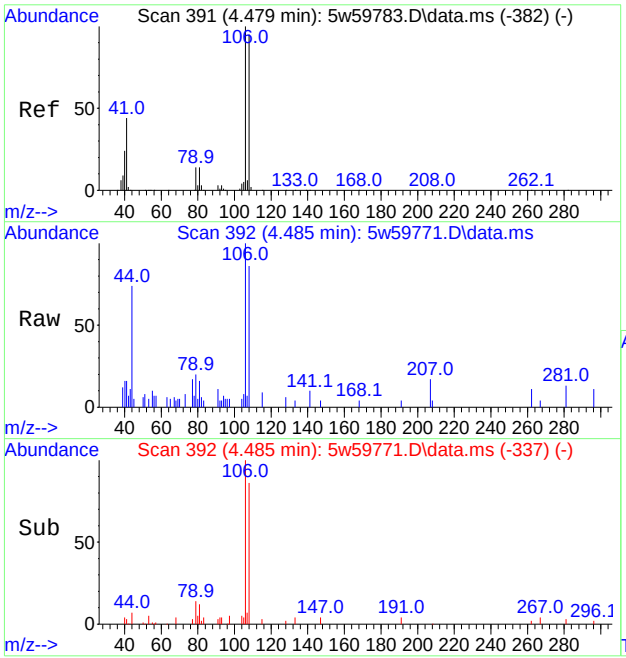


#28
ETHANOL
Concen: 0.73 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 12121

Ion	Ratio	Lower	Upper
45	100		
46	31.3	2.0	62.0
42	10.3	0.0	38.5

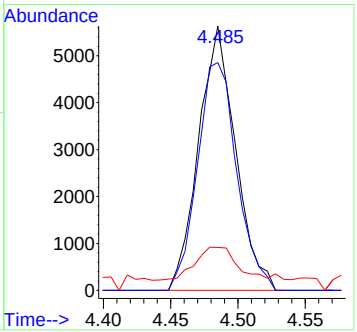


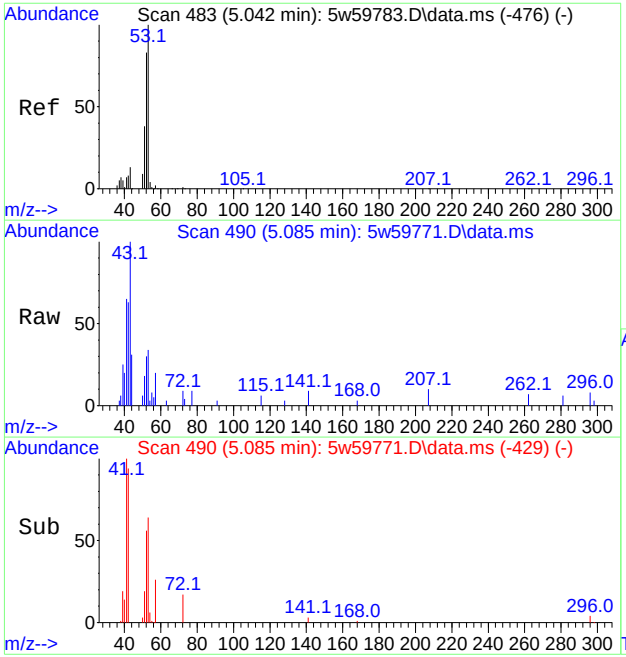


#29
BROMOETHENE
Concen: 0.22 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 10750

Ion	Ratio	Lower	Upper
106	100		
108	92.0	65.6	125.6
81	28.2	0.0	43.9

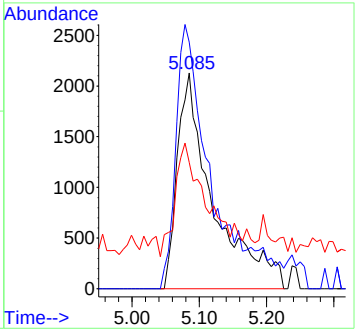


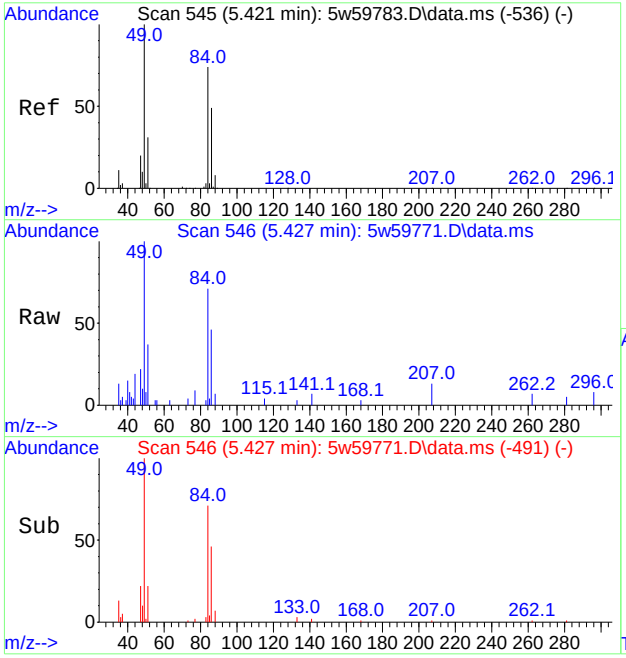


#30
ACRYLONITRILE
Concen: 0.26 PPBV
RT: 5.085 min Scan# 490
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 7876

Ion	Ratio	Lower	Upper
52	100		
53	128.6	85.8	159.4
51	50.1	32.3	60.1

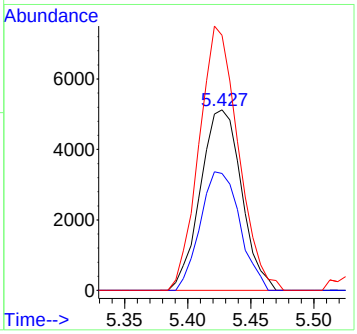


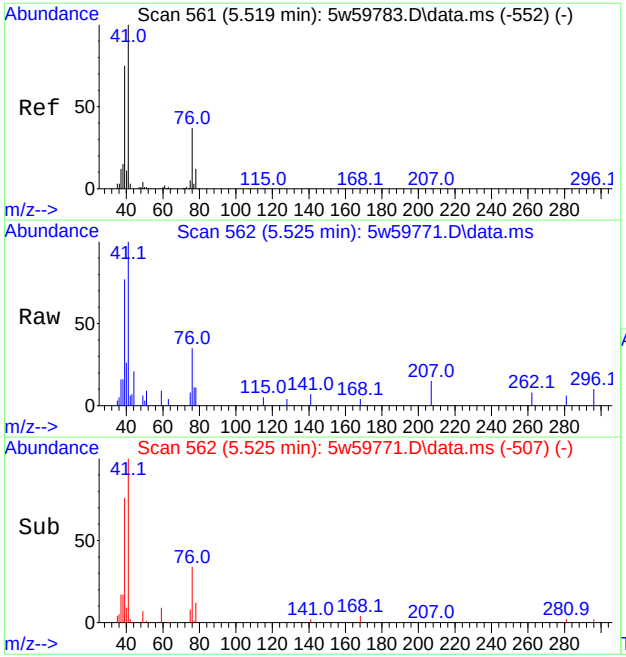


#31
METHYLENE CHLORIDE
Concen: 0.27 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 11602

Ion	Ratio	Lower	Upper
84	100		
86	63.2	35.2	95.2
49	139.5	105.3	165.3

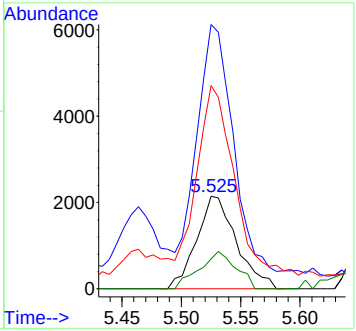


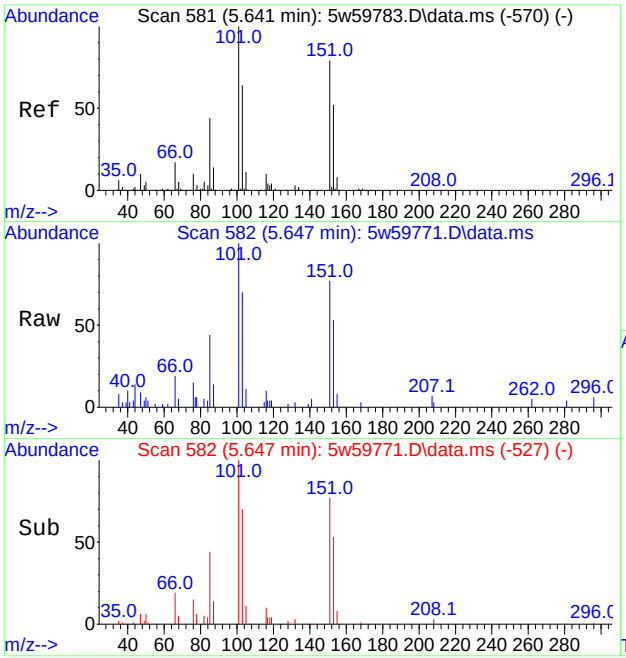


#32
3-CHLOROPROPENE
Concen: 0.22 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 4977

Ion	Ratio	Lower	Upper
76	100		
41	272.3	240.8	300.8
39	208.6	173.6	233.6
78	37.2	2.8	62.8

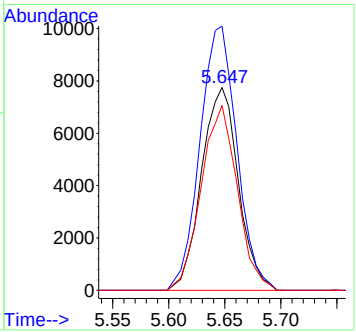


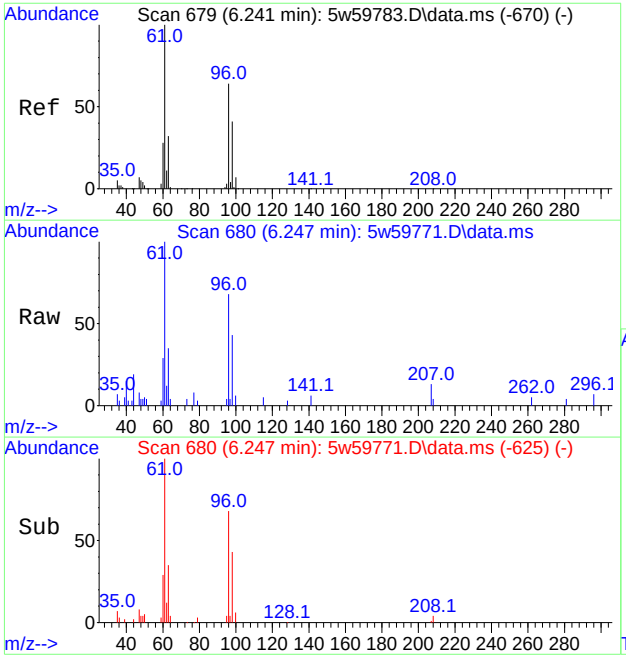


#33
FREON 113
Concen: 0.21 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:151 Resp: 17747

Ion	Ratio	Lower	Upper
151	100		
101	130.5	97.5	157.5
103	89.3	52.5	112.5

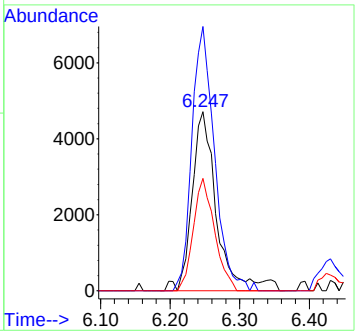


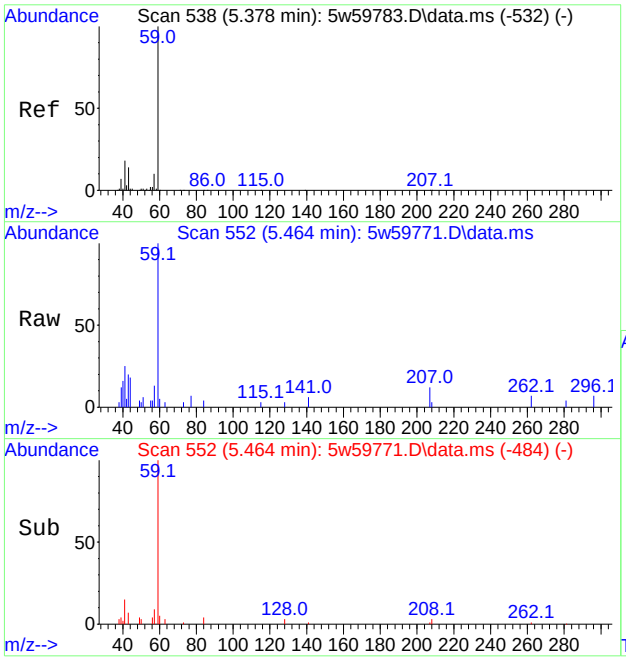


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 11590

Ion	Ratio	Lower	Upper
96	100		
61	135.4	126.4	186.4
98	54.1	34.1	94.1

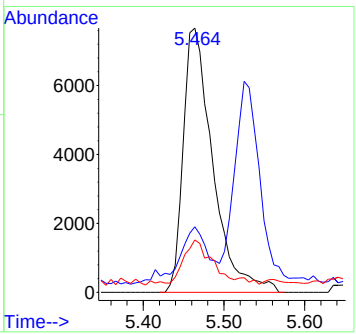


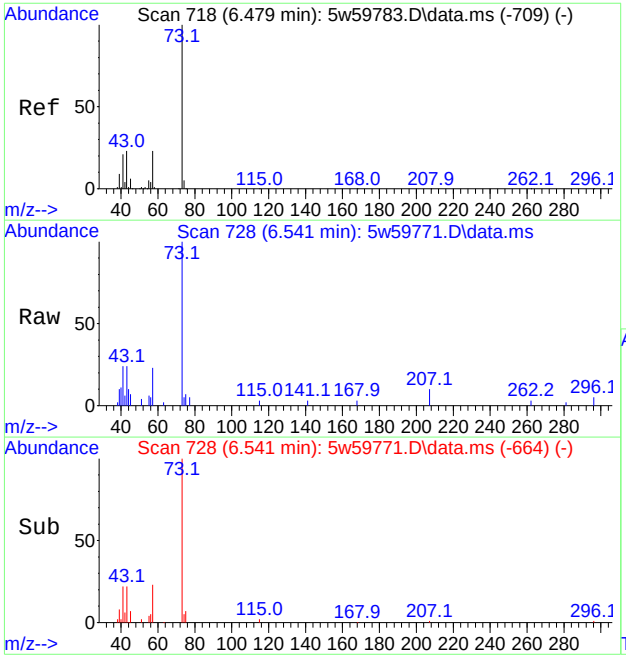


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.20 PPBV
RT: 5.464 min Scan# 552
Delta R.T. 0.086 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 19541

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	16.8	0.0	44.1

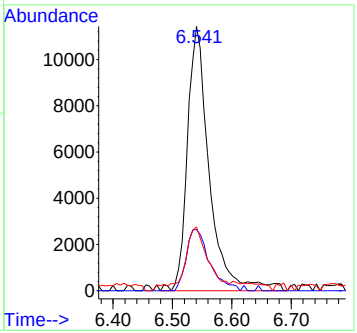


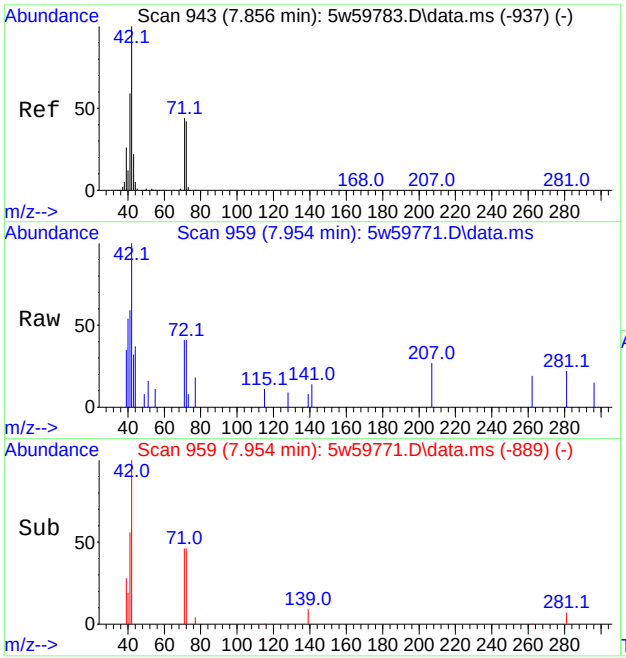


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.23 PPBV
RT: 6.541 min Scan# 728
Delta R.T. 0.062 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 73 Resp: 29335

Ion	Ratio	Lower	Upper
73	100		
57	24.5	0.0	53.1
41	30.1	0.0	50.6

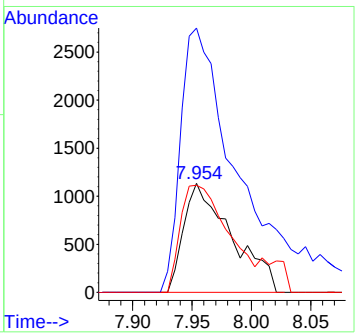


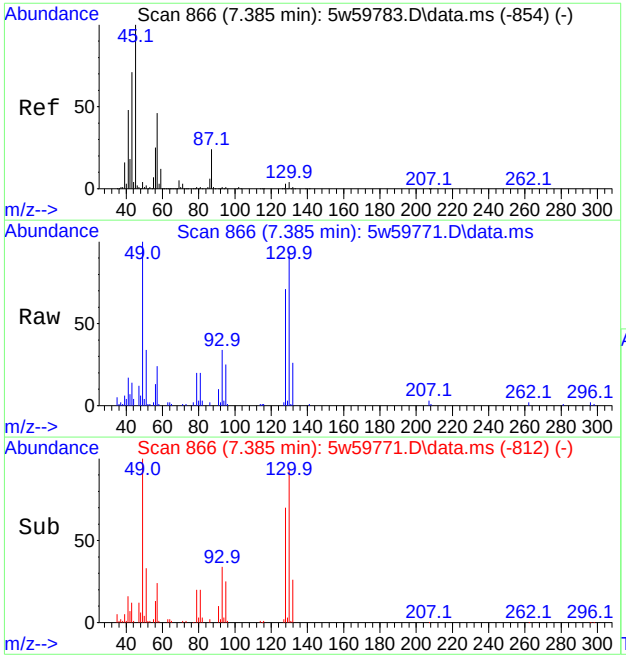


#37
TETRAHYDROFURAN
Concen: 0.16 PPBV
RT: 7.954 min Scan# 959
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 3172

Ion	Ratio	Lower	Upper
72	100		
42	320.8	202.4	262.4#
71	114.2	71.1	131.1

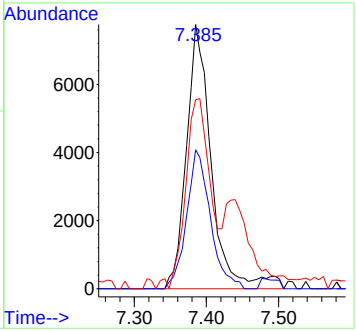


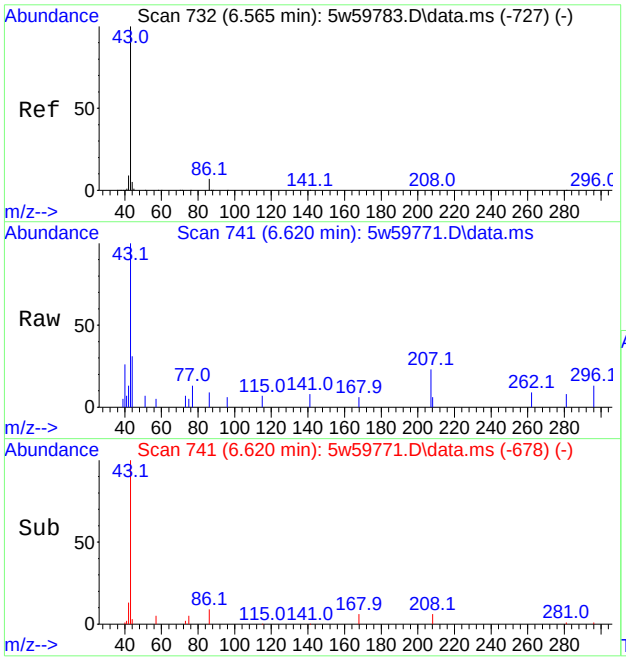


#38
HEXANE
Concen: 0.26 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18650

Ion	Ratio	Lower	Upper
57	100		
56	50.0	25.9	85.9
41	73.1	74.7	134.7#

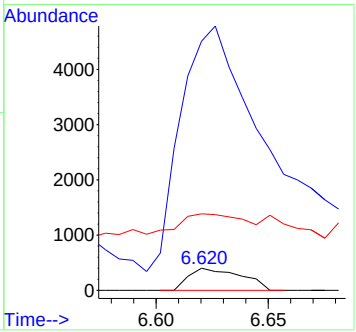


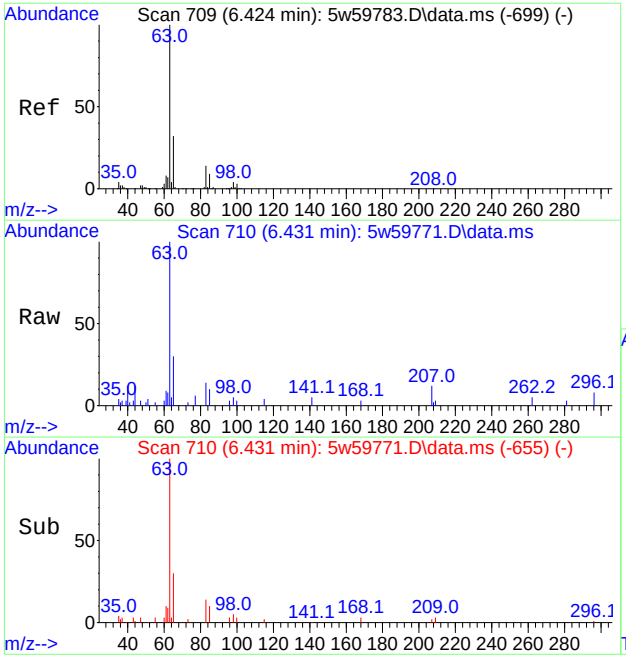


#39
VINYL ACETATE
Concen: 0.09 PPBV
RT: 6.620 min Scan# 741
Delta R.T. 0.055 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 86 Resp: 653

Ion	Ratio	Lower	Upper
86	100		
43	2548.1	1379.7	1439.7#
44	190.8	36.9	96.9#

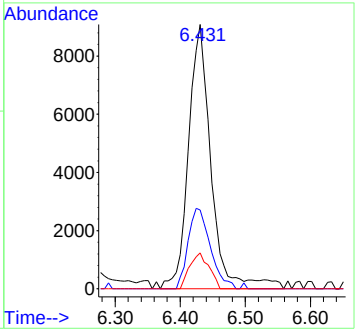


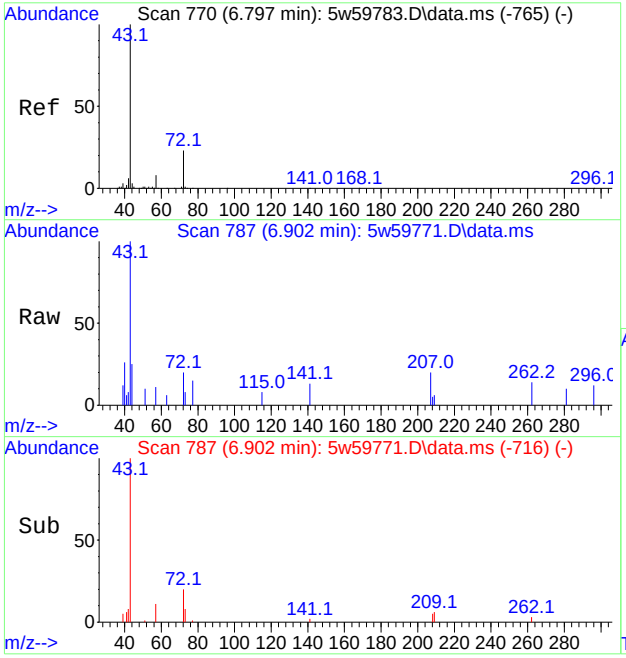


#40
1,1-DICHLOROETHANE
Concen: 0.23 PPBV
RT: 6.431 min Scan# 710
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 21909

Ion	Ratio	Lower	Upper
63	100		
65	30.0	1.7	61.7
83	11.7	0.0	43.5

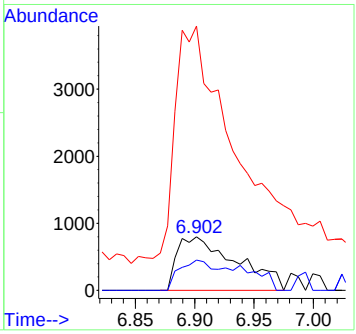


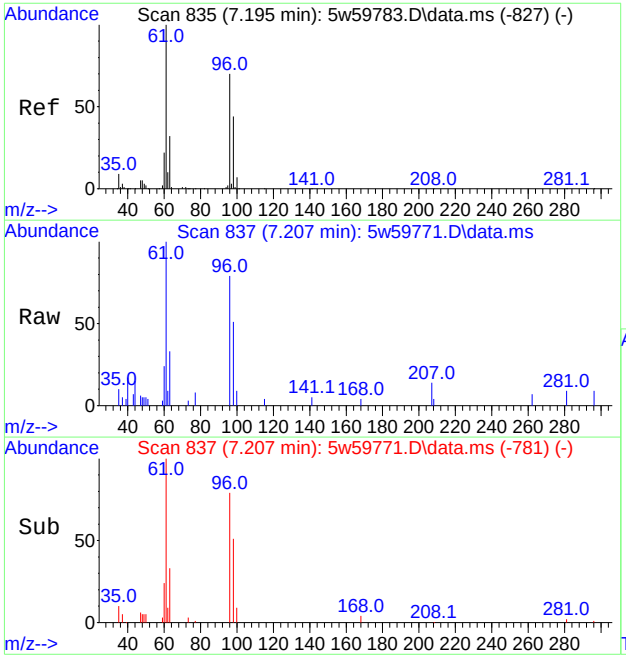


#41
METHYL ETHYL KETONE
Concen: 0.14 PPBV
RT: 6.902 min Scan# 787
Delta R.T. 0.105 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 2781

Ion	Ratio	Lower	Upper
72	100		
57	56.4	4.8	64.8
43	493.5	415.9	475.9#

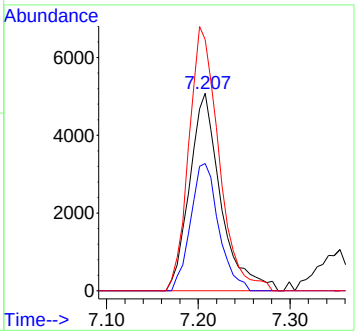


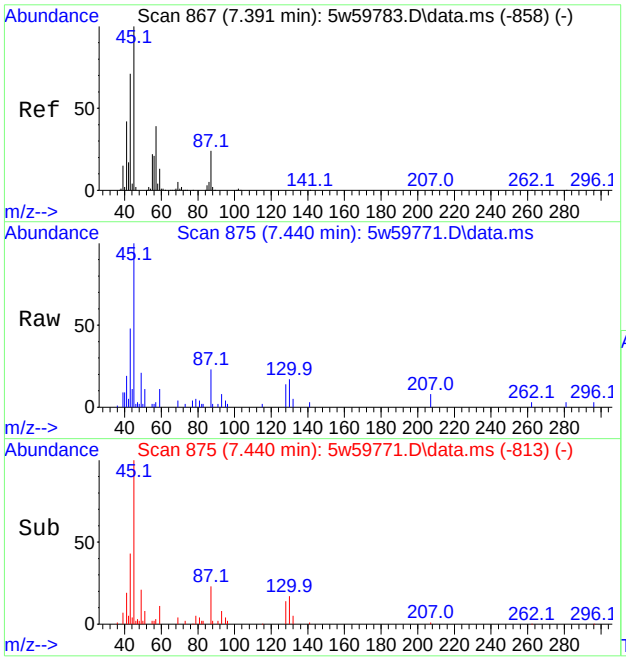


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 12027

Ion	Ratio	Lower	Upper
96	100		
98	58.2	34.0	94.0
61	128.8	111.5	171.5

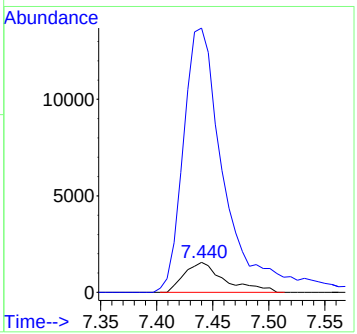


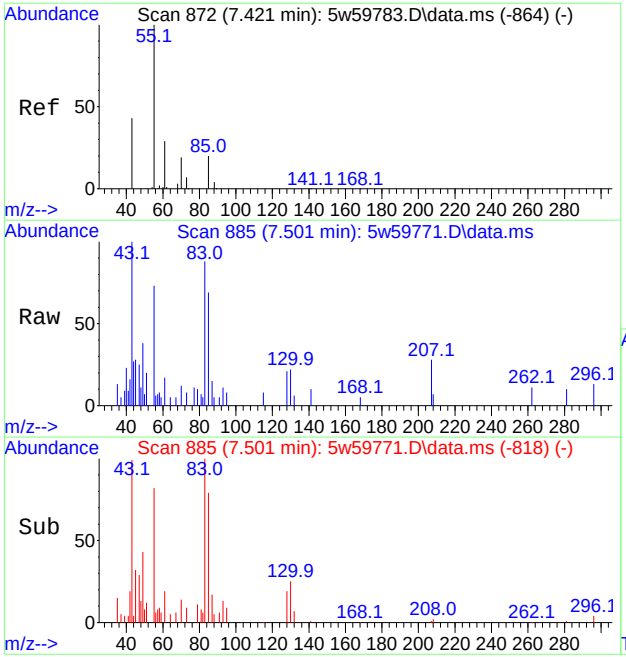


#43
DIISOPROPYL ETHER
Concen: 0.18 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.049 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 3909

Ion	Ratio	Lower	Upper
59	100		
45	923.5	720.9	780.9#

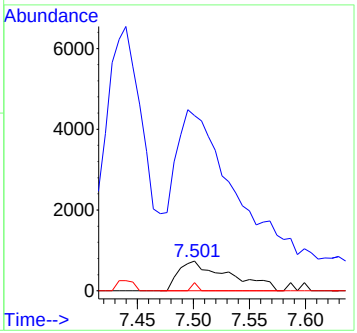


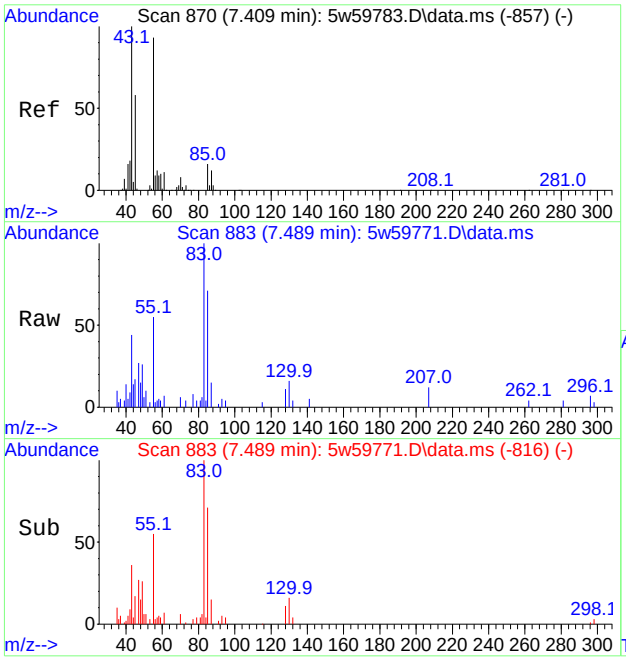


#44
ETHYL ACETATE
Concen: 0.15 PPBV m
RT: 7.501 min Scan# 885
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 61 Resp: 2309

Ion	Ratio	Lower	Upper
61	100		
43	613.1	560.5	620.5
88	3.2	4.5	64.5#

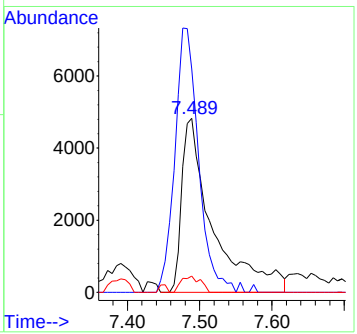


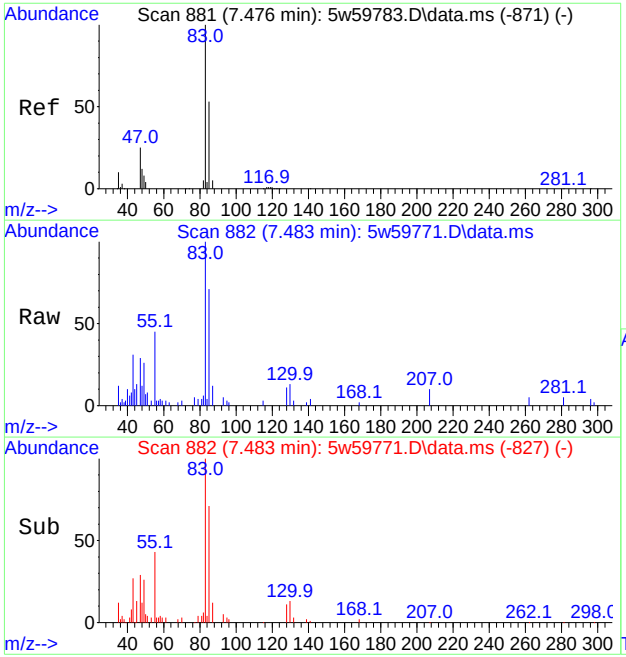


#45
METHYL ACRYLATE
Concen: 0.17 PPBV m
RT: 7.489 min Scan# 883
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 14366

Ion	Ratio	Lower	Upper
55	100		
85	116.3	10.9	20.3#
58	5.8	9.4	17.6#

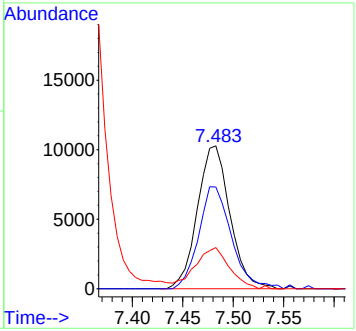


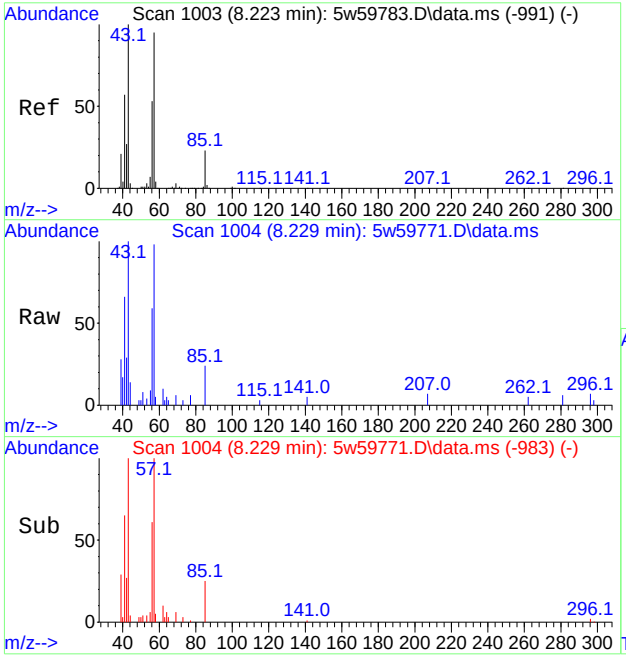


#46
CHLOROFORM
Concen: 0.22 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 23090

Ion	Ratio	Lower	Upper
83	100		
85	72.4	35.6	95.6
47	30.7	0.0	55.2

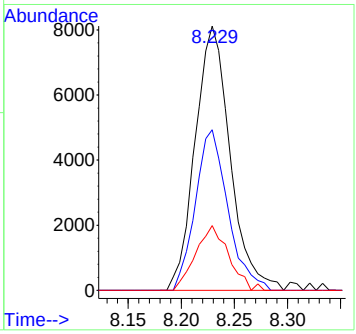


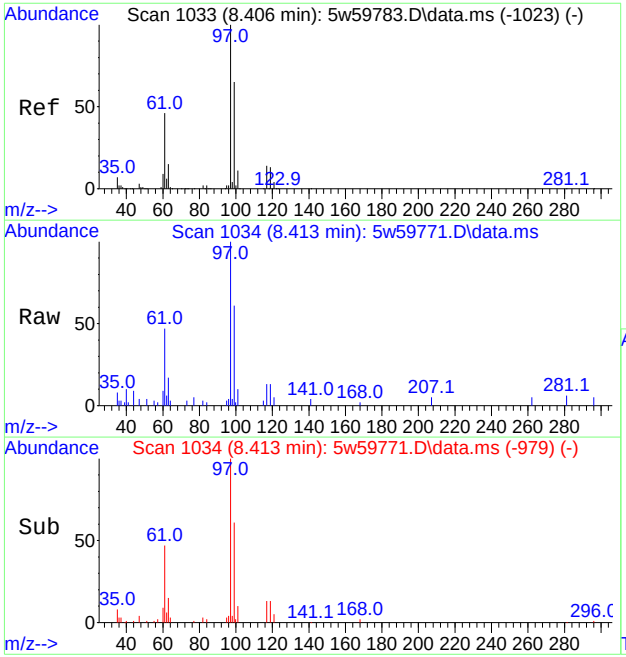


#47
2,4-DIMETHYLPENTANE
Concen: 0.22 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18643

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.1	0.0	53.8

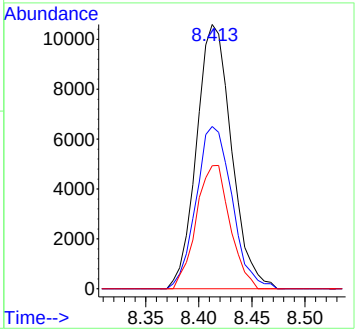


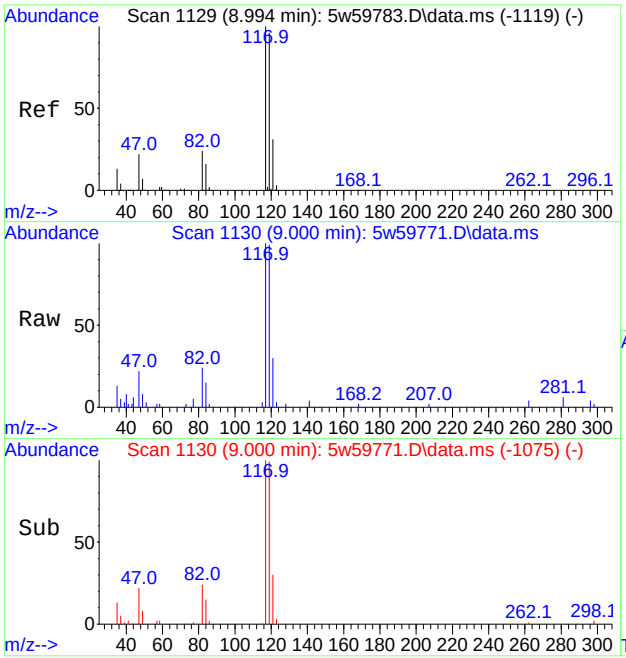


#48
1,1,1-TRICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 97 Resp: 24304

Ion	Ratio	Lower	Upper
97	100		
99	62.9	34.8	94.8
61	44.9	15.8	75.8

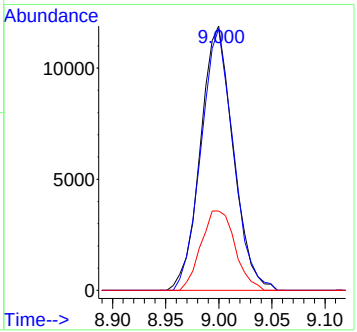


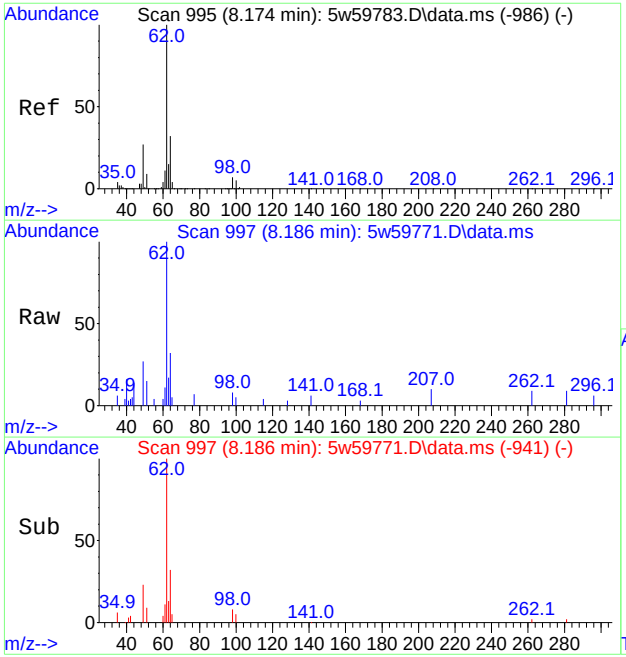


#49
CARBON TETRACHLORIDE
Concen: 0.21 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 25552

Ion	Ratio	Lower	Upper
117	100		
119	97.5	66.9	126.9
121	31.2	1.3	61.3

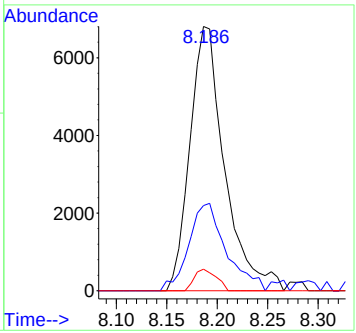


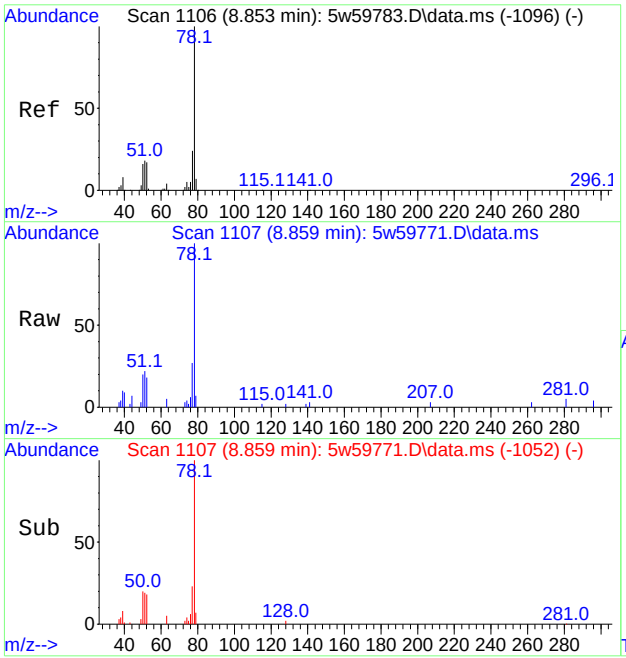


#50
1,2-DICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 16304

Ion	Ratio	Lower	Upper
62	100		
64	35.5	2.3	62.3
98	5.2	0.0	36.9

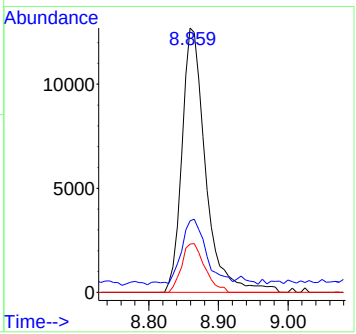


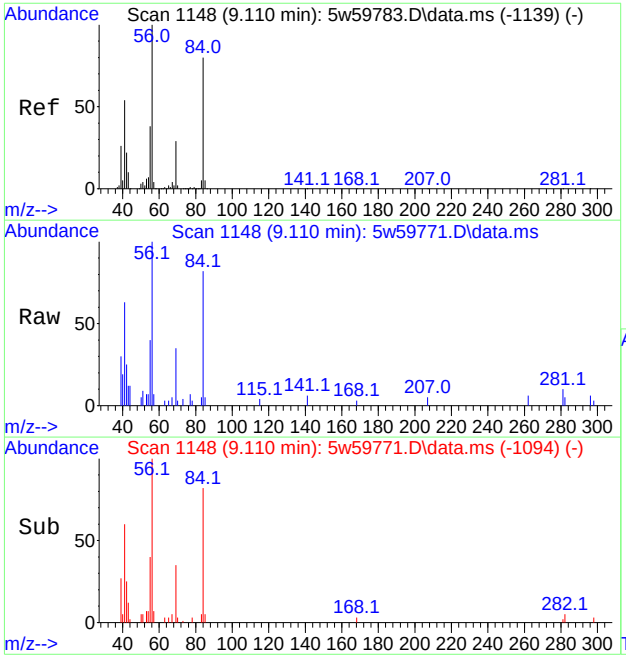


#52
BENZENE
Concen: 0.21 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 78 Resp: 30072

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	18.0	0.0	46.9

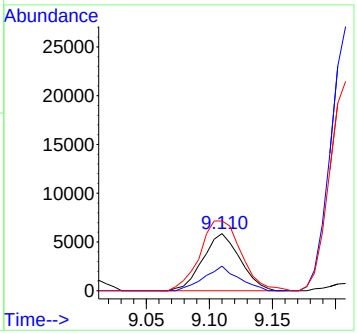


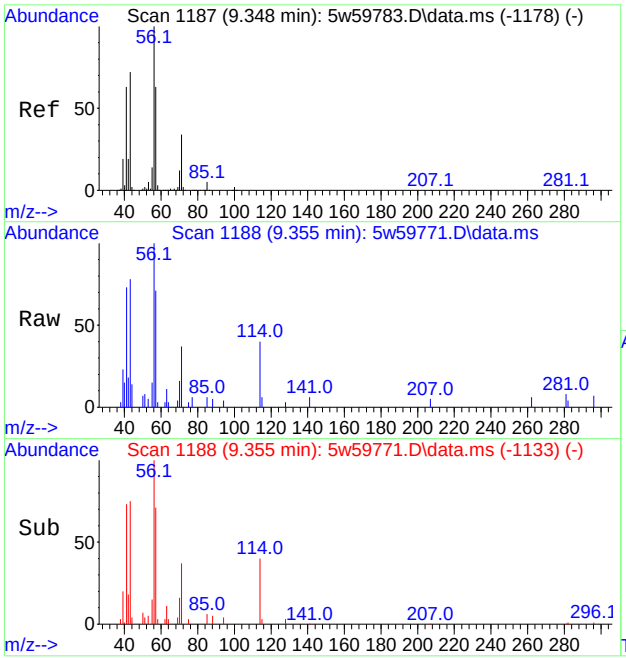


#53
CYCLOHEXANE
Concen: 0.20 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 12037

Ion	Ratio	Lower	Upper
84	100		
69	39.7	6.9	66.9
56	135.6	98.2	158.2

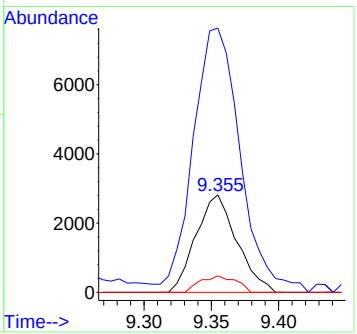


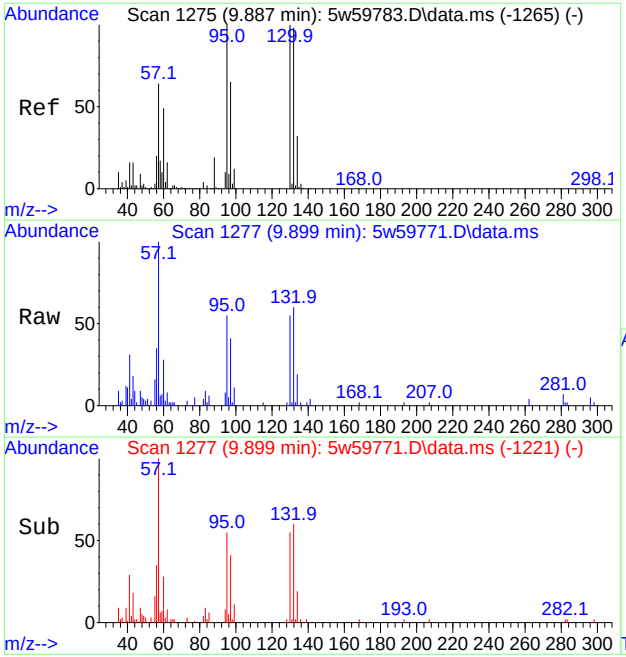


#54
2,3-DIMETHYLPENTANE
Concen: 0.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 71 Resp: 5961

Ion	Ratio	Lower	Upper
71	100		
56	313.5	264.6	324.6
85	14.8	0.0	45.3

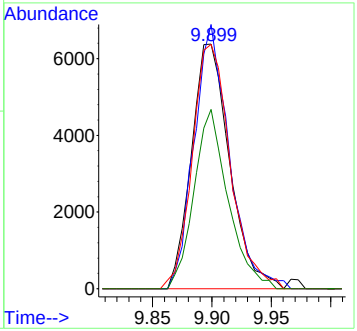


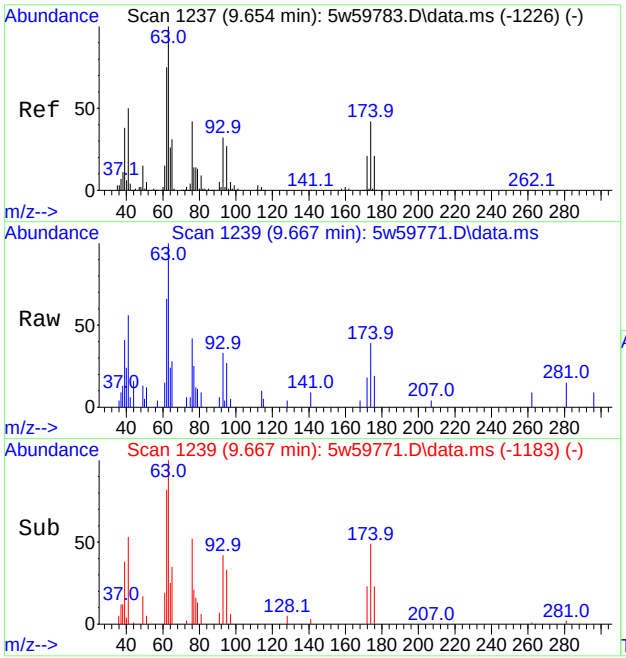


#55
TRICHLOROETHYLENE
Concen: 0.19 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 95 Resp: 14290

Ion	Ratio	Lower	Upper
95	100		
132	99.8	69.0	129.0
130	99.4	70.6	130.6
97	65.4	34.6	94.6

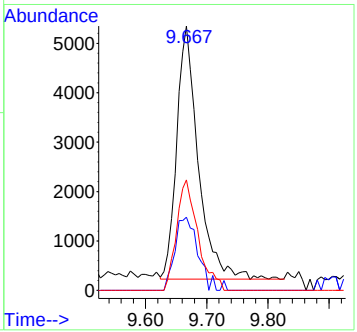


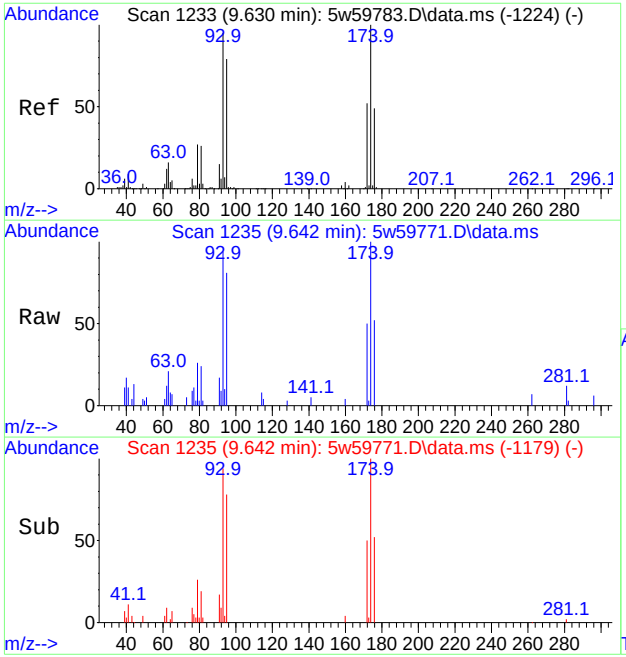


#56
1,2-DICHLOROPROPANE
Concen: 0.20 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 12562

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	43.0	11.5	71.5

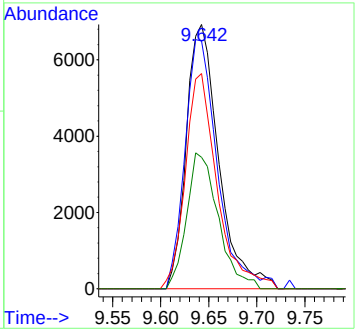


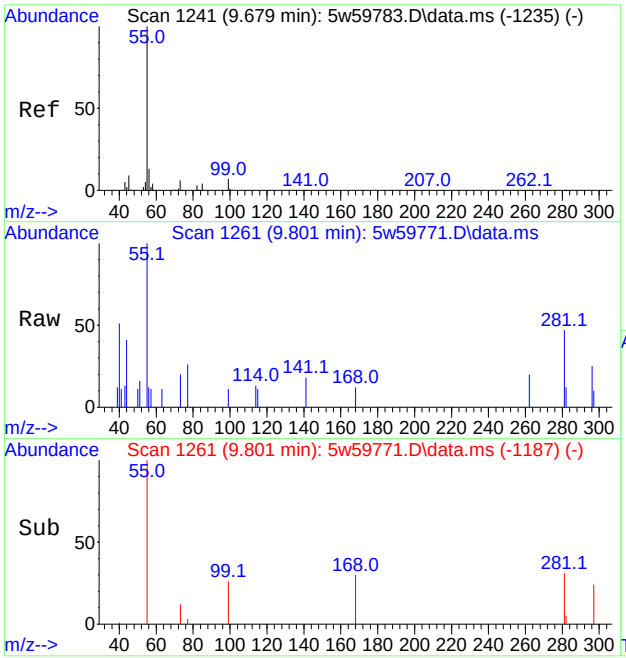


#57
DIBROMOMETHANE
Concen: 0.20 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:174 Resp: 16323

Ion	Ratio	Lower	Upper
174	100		
93	94.4	65.0	120.6
95	79.7	54.5	101.1
172	50.0	36.3	67.5

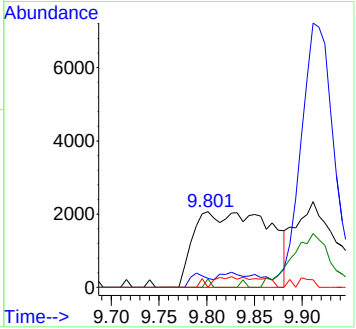


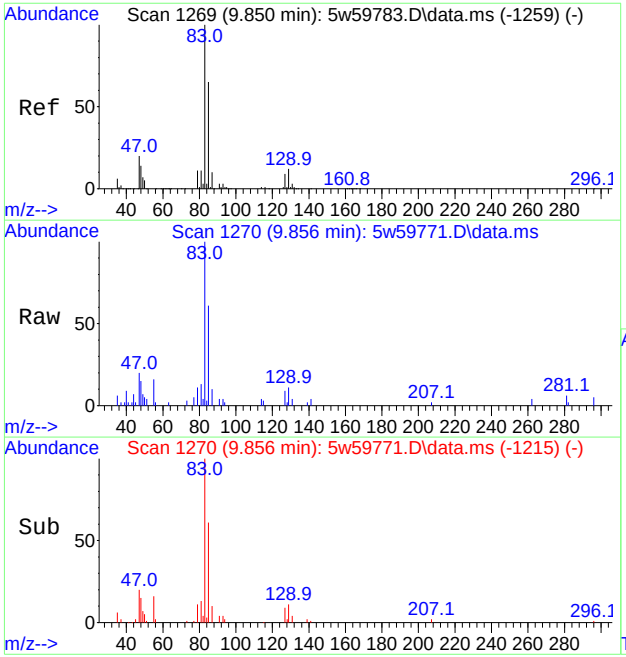


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV m
RT: 9.801 min Scan# 1261
Delta R.T. 0.122 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 11494

Ion	Ratio	Lower	Upper
55	100		
56	0.0	8.6	16.0#
45	0.0	6.6	12.2#
99	0.0	6.4	12.0#

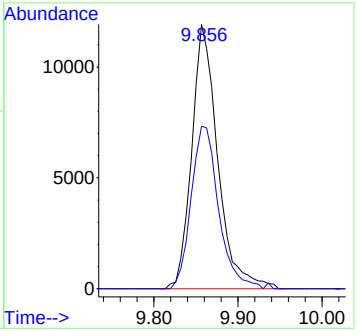


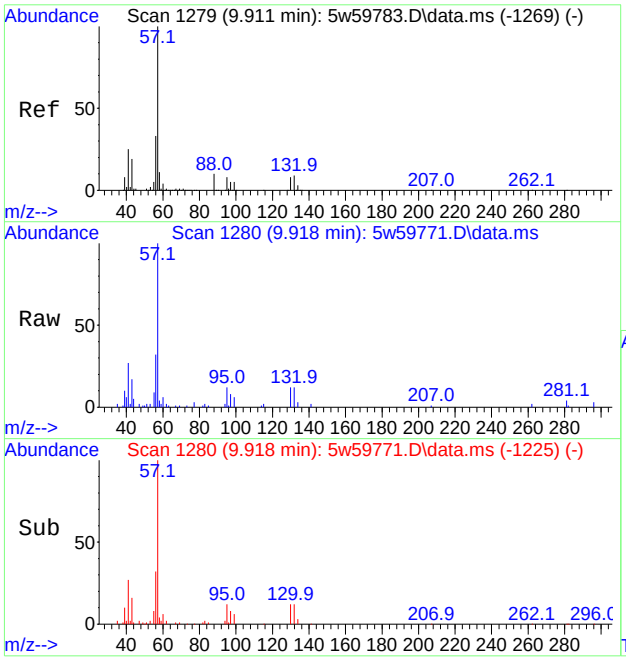


#59
BROMODICHLOROMETHANE
Concen: 0.20 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25637

Ion	Ratio	Lower	Upper
83	100		
85	64.9	33.4	93.4

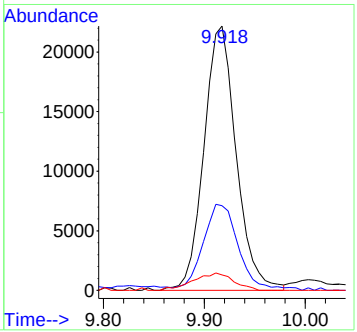


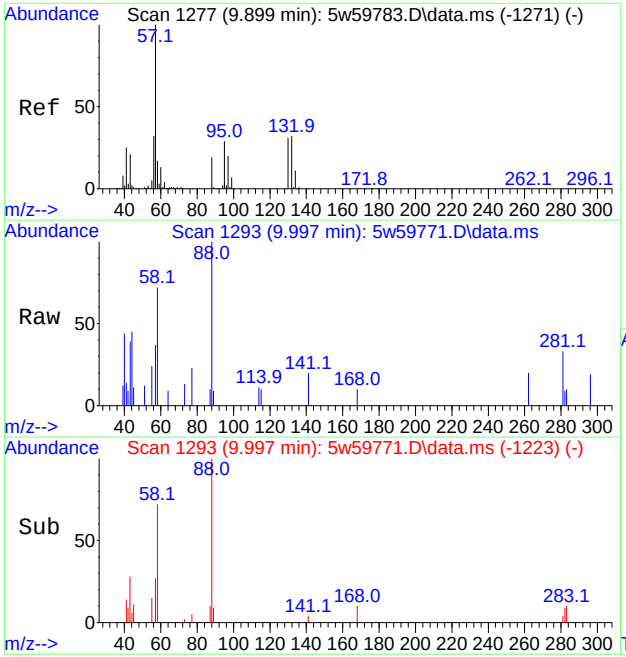


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 49437

Ion	Ratio	Lower	Upper
57	100		
56	35.7	2.5	62.5
99	8.3	0.0	37.3

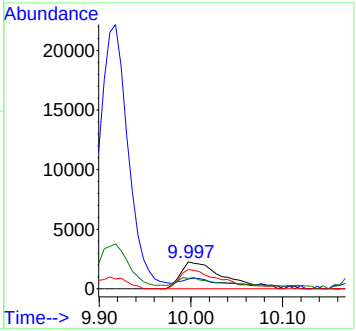


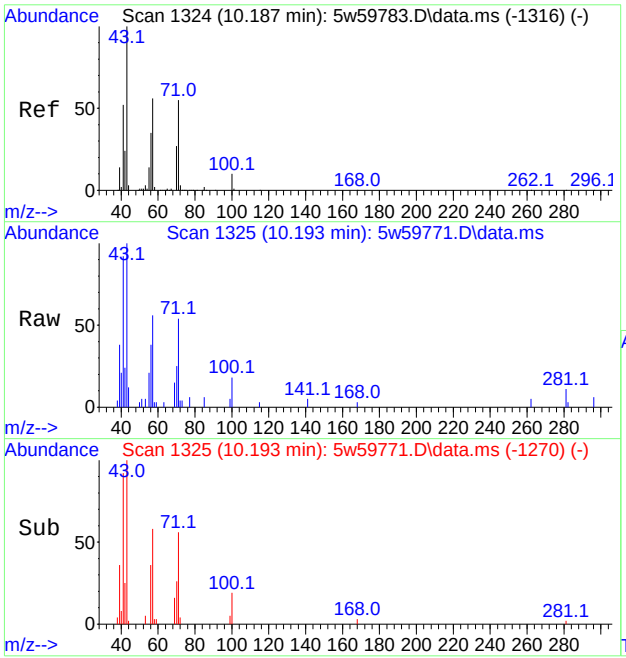


#61
1,4-DIOXANE
Concen: 0.22 PPBV
RT: 9.997 min Scan# 1293
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 88 Resp: 7396

Ion	Ratio	Lower	Upper
88	100		
57	36.9	494.2	554.2#
58	72.0	58.9	118.9
43	38.6	78.3	138.3#

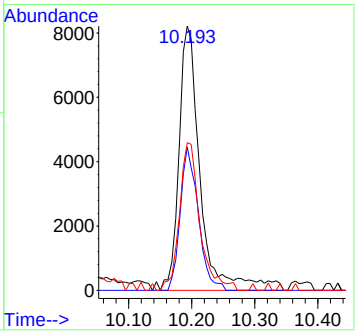


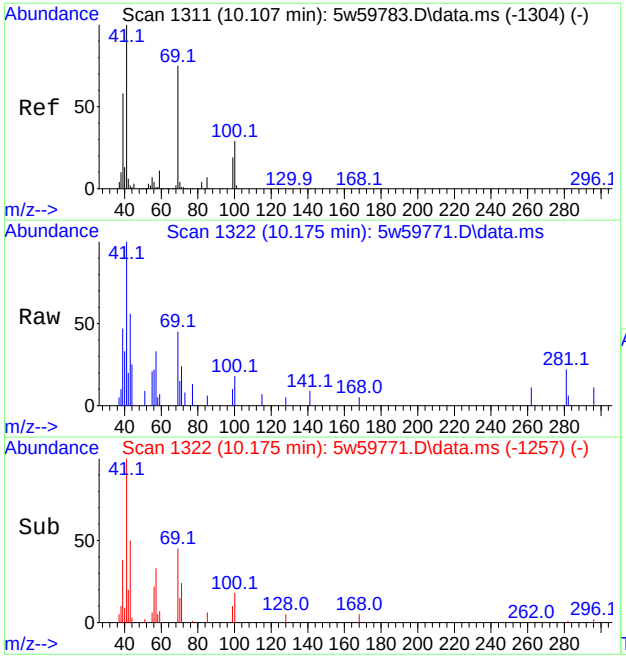


#62
HEPTANE
Concen: 0.24 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 19280

Ion	Ratio	Lower	Upper
43	100		
71	45.8	24.5	84.5
57	53.5	26.2	86.2

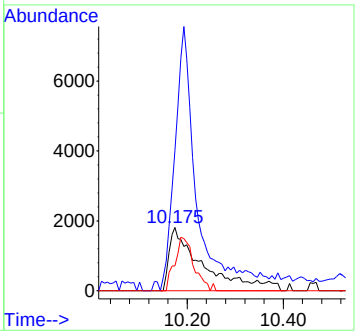


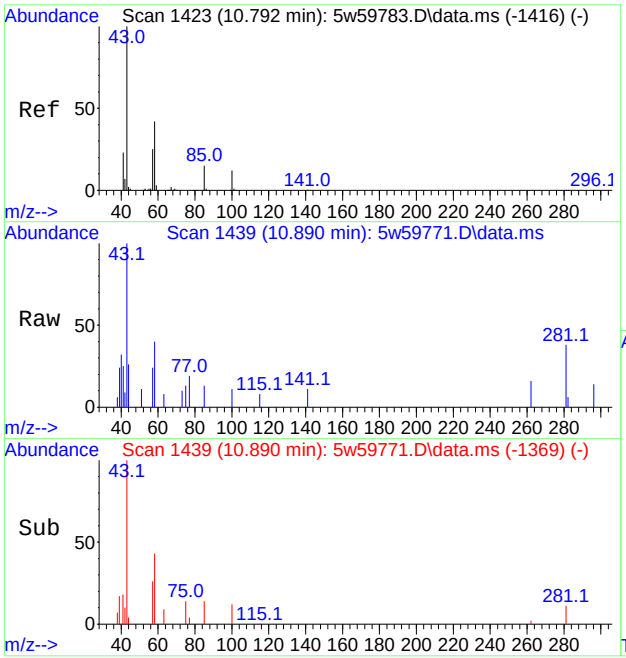


#63
METHYL METHACRYLATE
Concen: 0.18 PPBV
RT: 10.175 min Scan# 1322
Delta R.T. 0.068 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 8860

Ion	Ratio	Lower	Upper
69	100		
41	286.0	95.3	155.3#
100	47.7	6.3	66.3

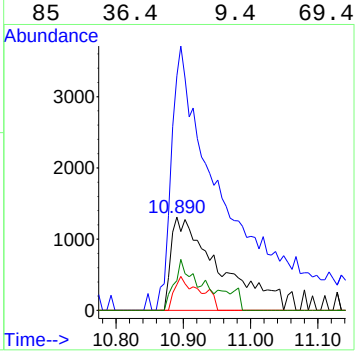


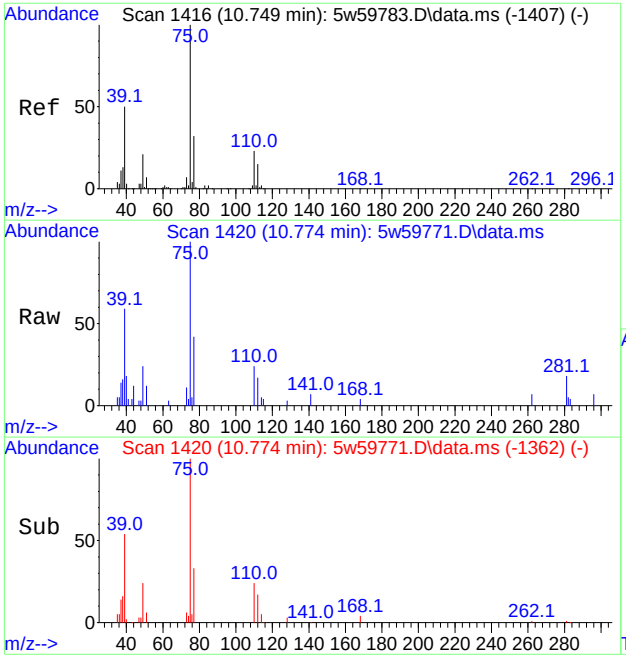


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 10.890 min Scan# 1439
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6548

Ion	Ratio	Lower	Upper
58	100		
43	299.8	209.2	269.2#
100	19.0	0.0	58.8
85	36.4	9.4	69.4

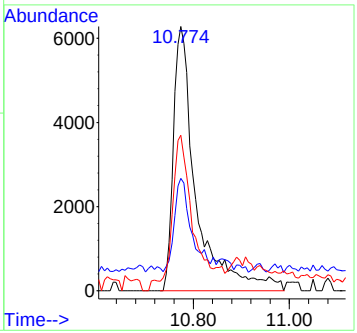


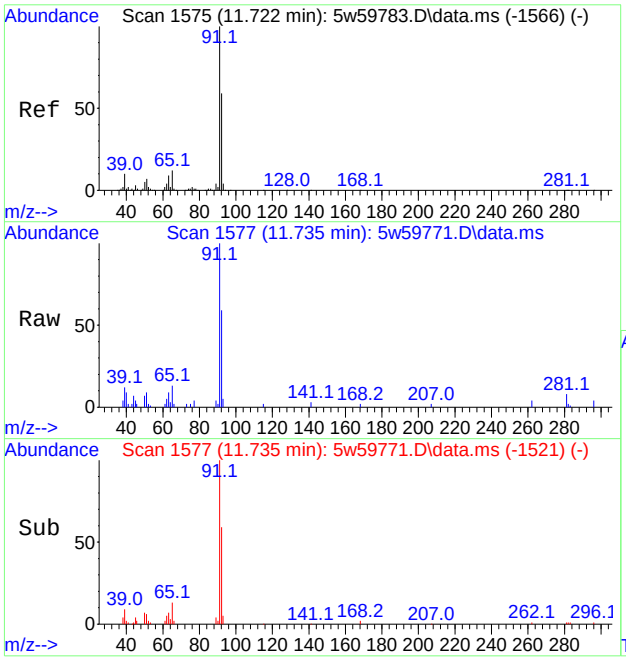


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 10.774 min Scan# 1420
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 20672

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	57.0	34.3	94.3

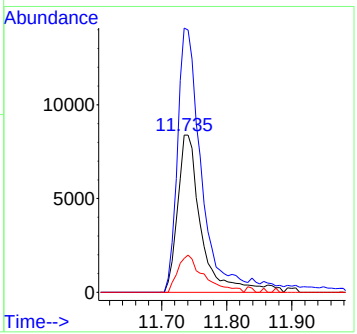


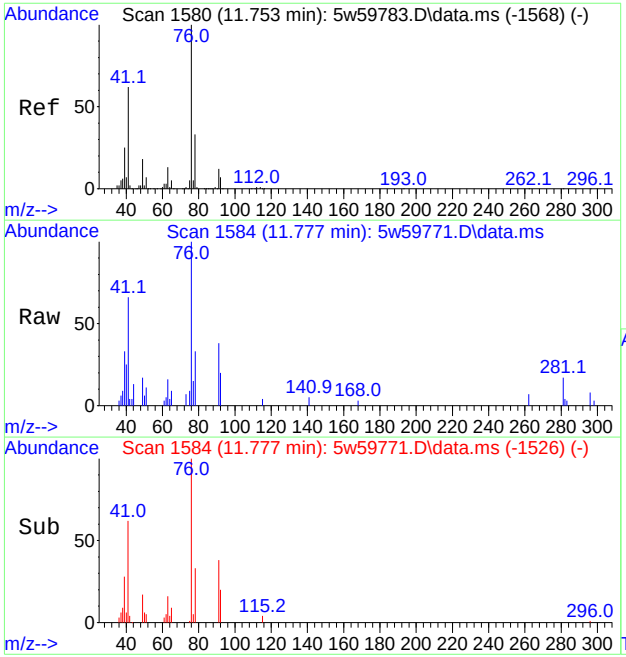


#66
TOLUENE
Concen: 0.19 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 92 Resp: 21289

Ion	Ratio	Lower	Upper
92	100		
91	180.0	140.1	200.1
65	25.9	0.0	53.1

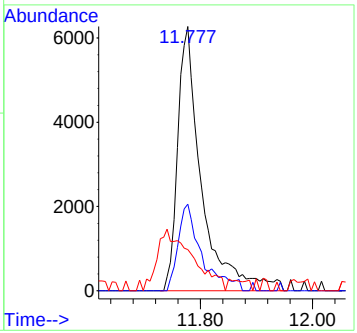


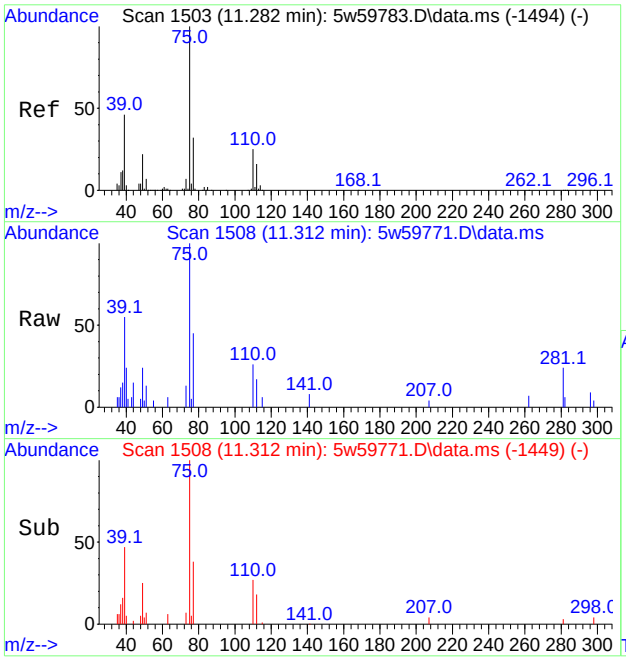


#67
1,3-DICHLOROPROPANE
Concen: 0.21 PPBV m
RT: 11.777 min Scan# 1584
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 18562

Ion	Ratio	Lower	Upper
76	100		
78	32.2	23.2	43.0
63	9.4	7.1	13.1

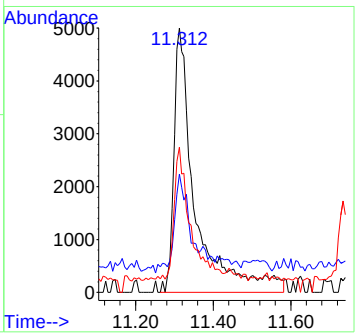


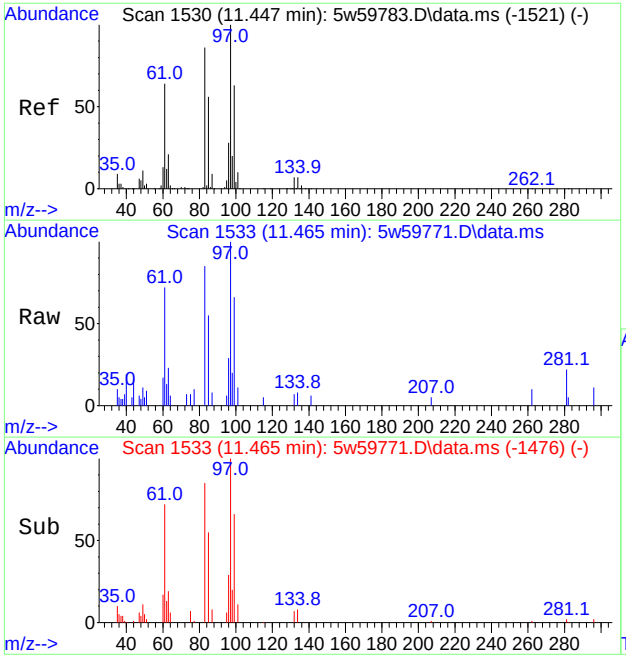


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 11.312 min Scan# 1508
Delta R.T. 0.030 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 19068

Ion	Ratio	Lower	Upper
75	100		
77	35.2	1.6	61.6
39	50.1	16.1	76.1

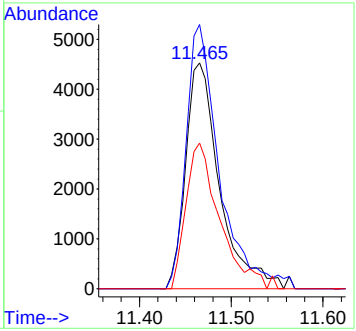


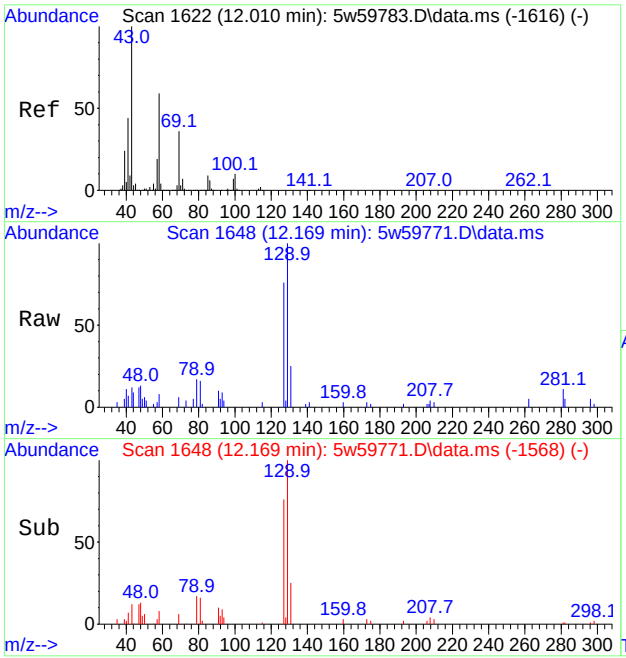


#69
1,1,2-TRICHLOROETHANE
Concen: 0.19 PPBV
RT: 11.465 min Scan# 1533
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 11660

Ion	Ratio	Lower	Upper
83	100		
97	114.8	86.3	146.3
85	64.7	35.3	95.3

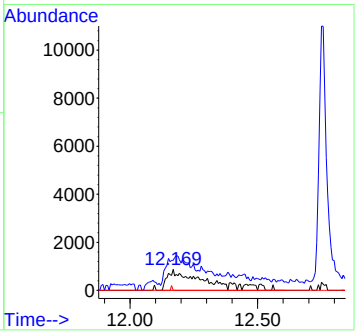


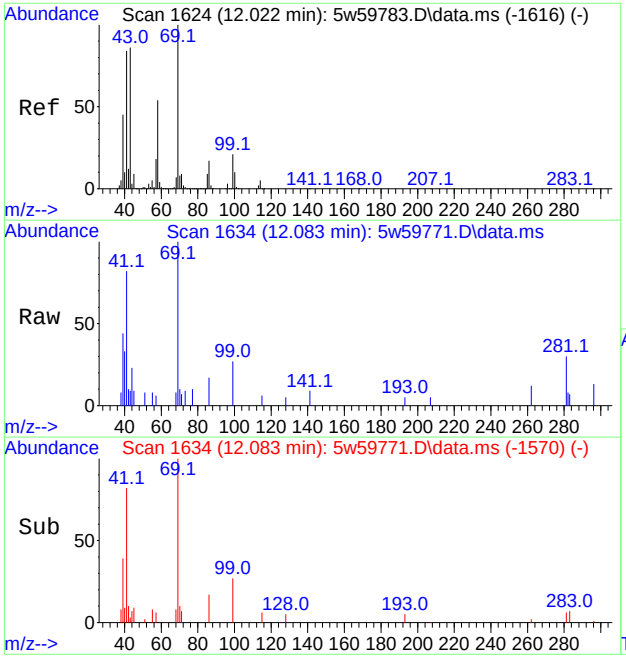


#71
2-HEXANONE
Concen: 0.16 PPBV m
RT: 12.169 min Scan# 1648
Delta R.T. 0.159 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 9038

Ion	Ratio	Lower	Upper
58	100		
43	104.3	137.2	197.2#
100	0.0	0.0	46.9

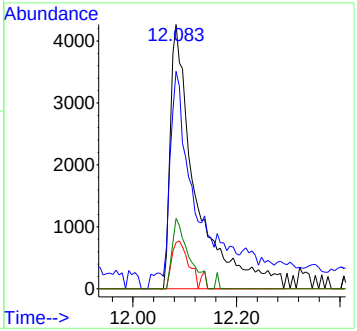


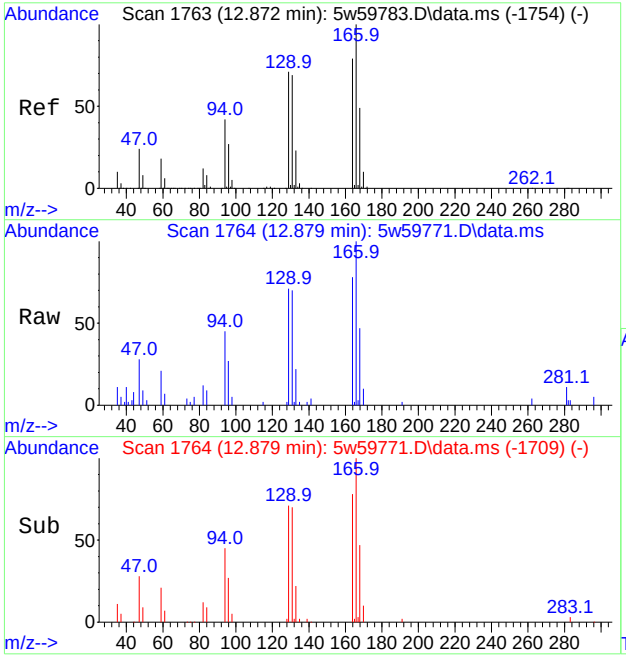


#72
ETHYL METHACRYLATE
Concen: 0.19 PPBV
RT: 12.083 min Scan# 1634
Delta R.T. 0.061 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 14602

Ion	Ratio	Lower	Upper
69	100		
41	106.4	64.0	119.0
86	11.8	12.0	22.4#
99	17.3	15.0	27.8

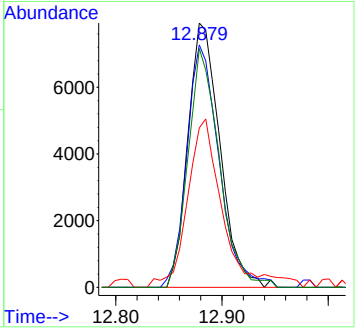


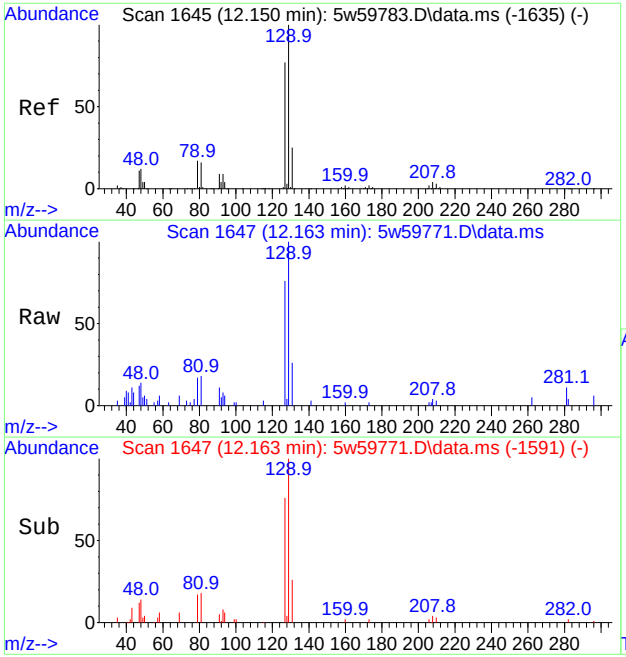


#73
TETRACHLOROETHYLENE
Concen: 0.23 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:164 Resp: 16678

Ion	Ratio	Lower	Upper
164	100		
129	92.5	59.7	119.7
168	69.8	32.2	92.2
131	88.1	57.8	117.8

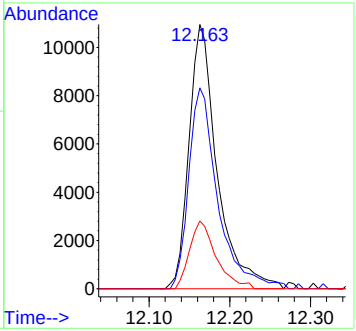


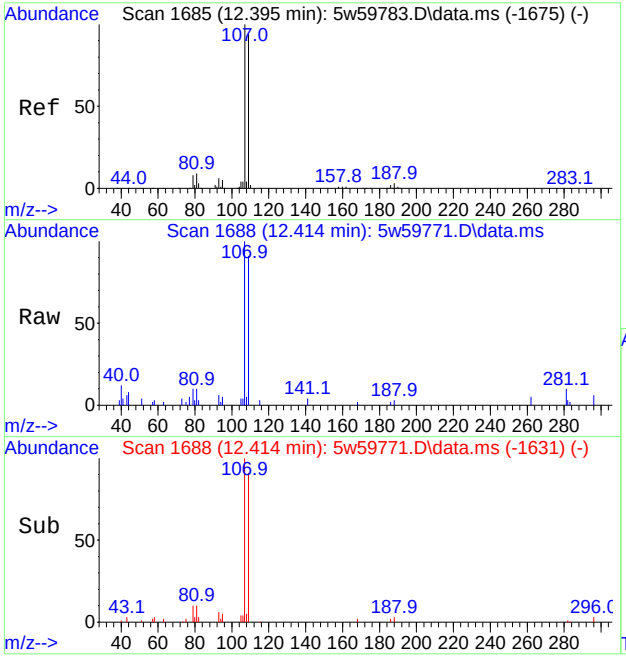


#74
DIBROMOCHLOROMETHANE
Concen: 0.21 PPBV
RT: 12.163 min Scan# 1647
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:129 Resp: 26574

Ion	Ratio	Lower	Upper
129	100		
127	78.2	47.1	107.1
131	24.1	0.0	54.5

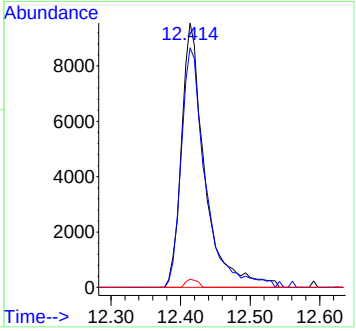


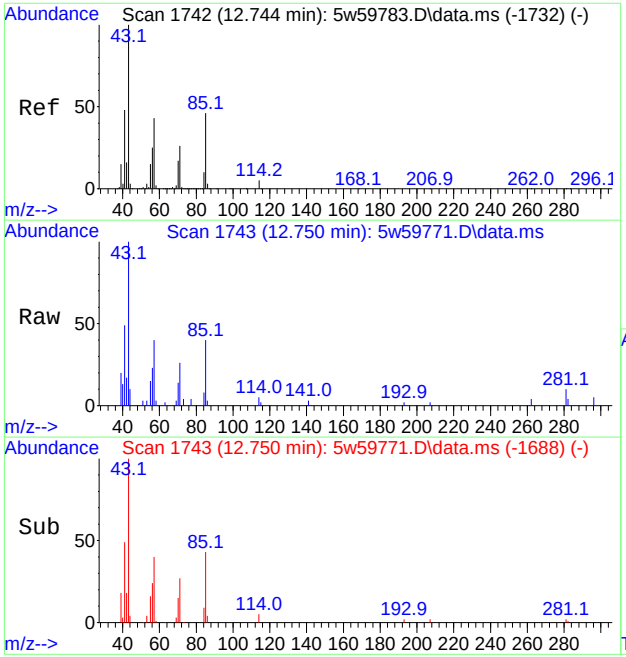


#75
1,2-DIBROMOETHANE
Concen: 0.22 PPBV
RT: 12.414 min Scan# 1688
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:107 Resp: 22241

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	1.6	0.0	32.8

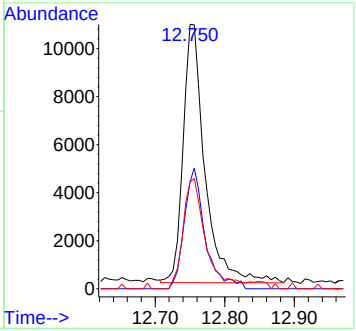


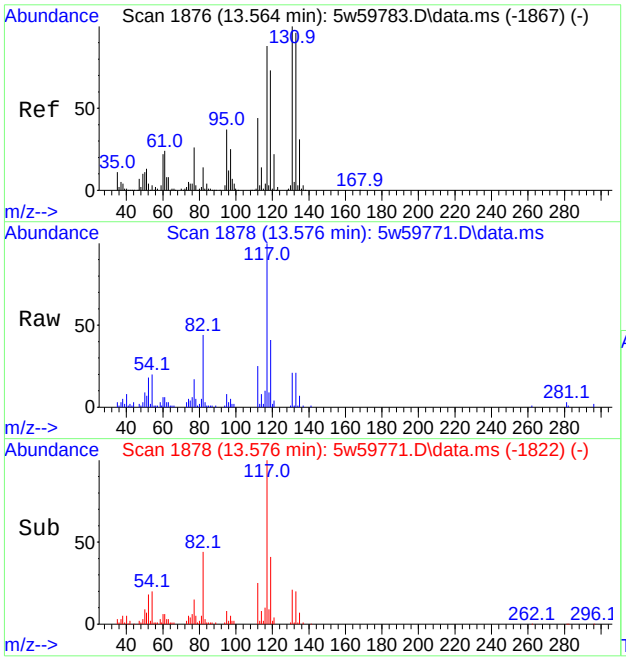


#76
OCTANE
Concen: 0.25 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 23489

Ion	Ratio	Lower	Upper
43	100		
85	44.5	14.6	74.6
57	46.5	13.7	73.7

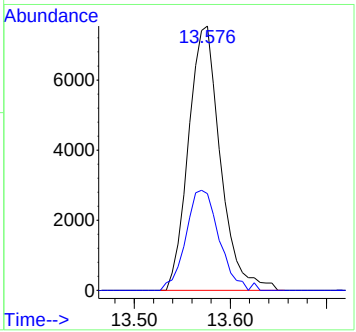


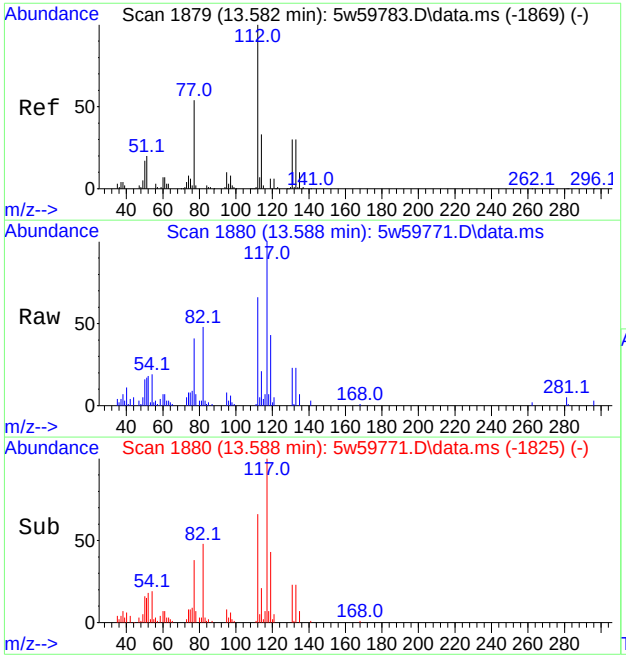


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.21 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:131 Resp: 17410

Ion	Ratio	Lower	Upper
131	100		
95	39.7	6.5	66.5

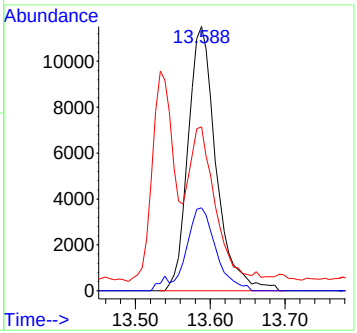


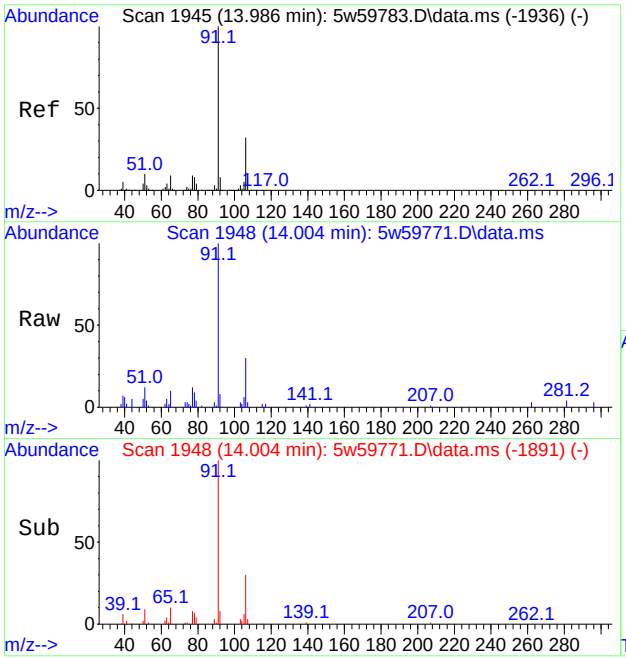


#78
CHLOROBENZENE
Concen: 0.23 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:112 Resp: 29927

Ion	Ratio	Lower	Upper
112	100		
114	32.2	2.6	62.6
77	55.6	25.4	85.4

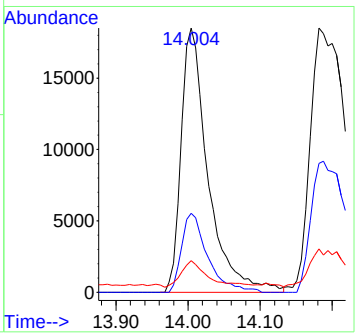


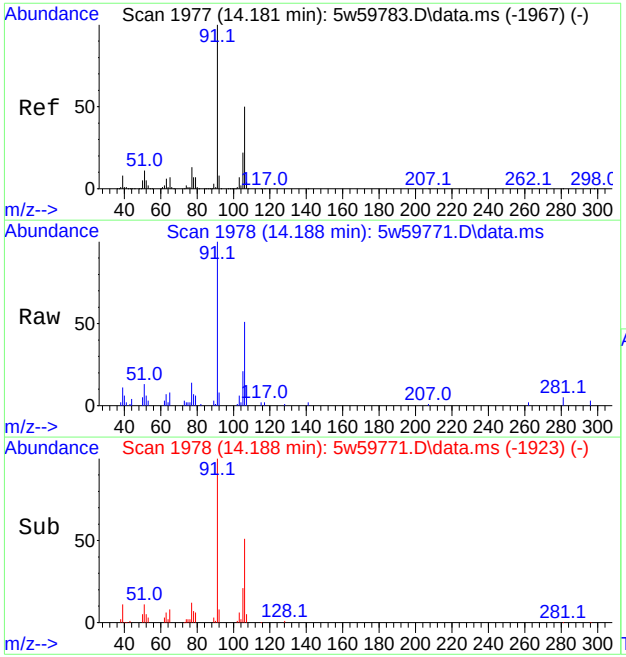


#79
ETHYLBENZENE
Concen: 0.24 PPBV
RT: 14.004 min Scan# 1948
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 48060

Ion	Ratio	Lower	Upper
91	100		
106	28.9	1.3	61.3
77	10.2	0.0	38.6

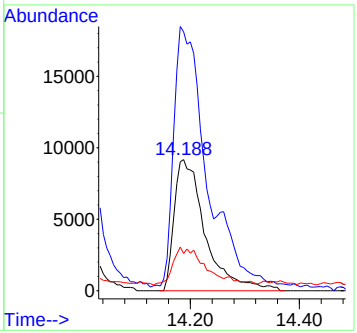


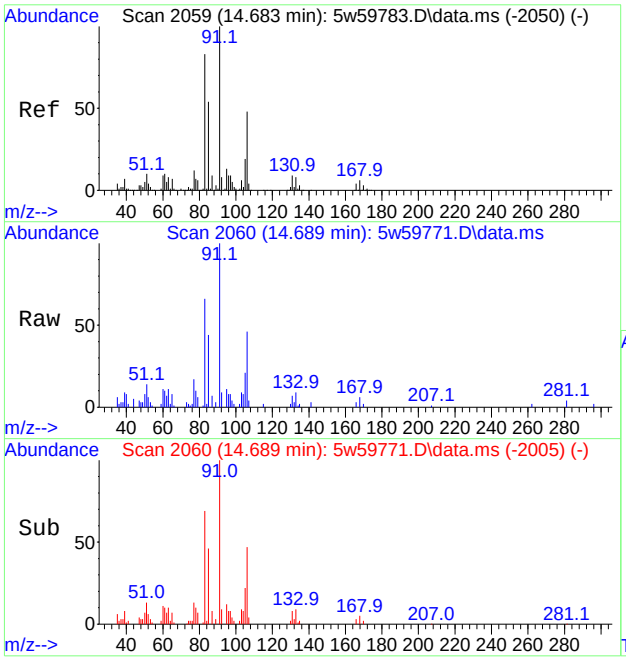


#80
m,p-XYLENE
Concen: 0.45 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 36141

Ion	Ratio	Lower	Upper
106	100		
91	197.2	171.0	231.0
77	28.5	0.0	56.7

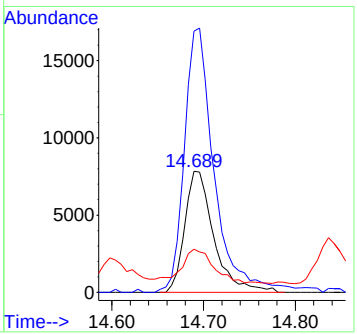


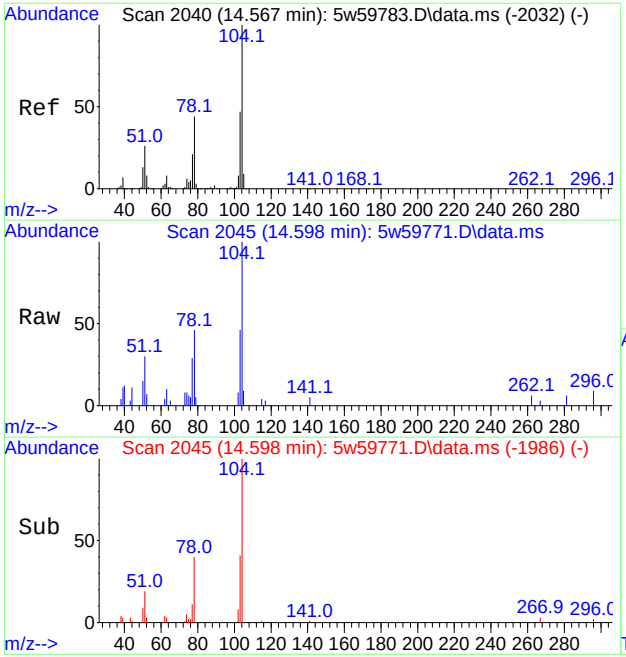


#81
o-XYLENE
Concen: 0.23 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 17278

Ion	Ratio	Lower	Upper
106	100		
91	226.2	181.6	241.6
77	34.4	0.0	56.6

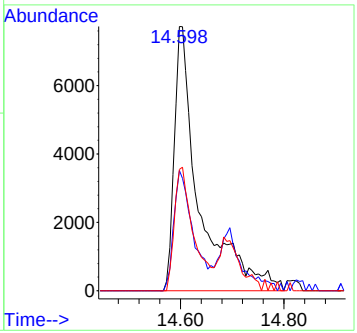


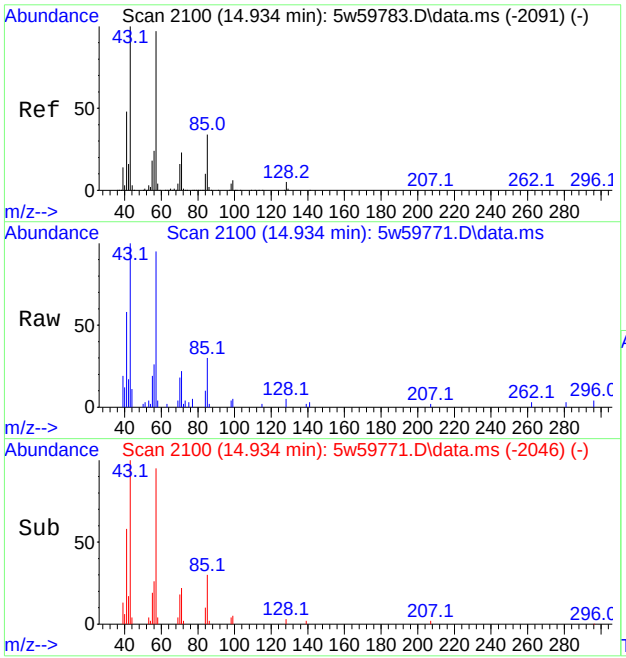


#82
STYRENE
Concen: 0.21 PPBV
RT: 14.598 min Scan# 2045
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:104 Resp: 26105

Ion	Ratio	Lower	Upper
104	100		
78	36.1	13.3	73.3
103	36.3	17.2	77.2

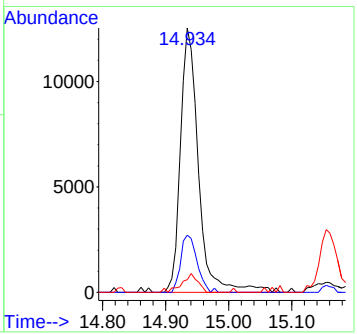


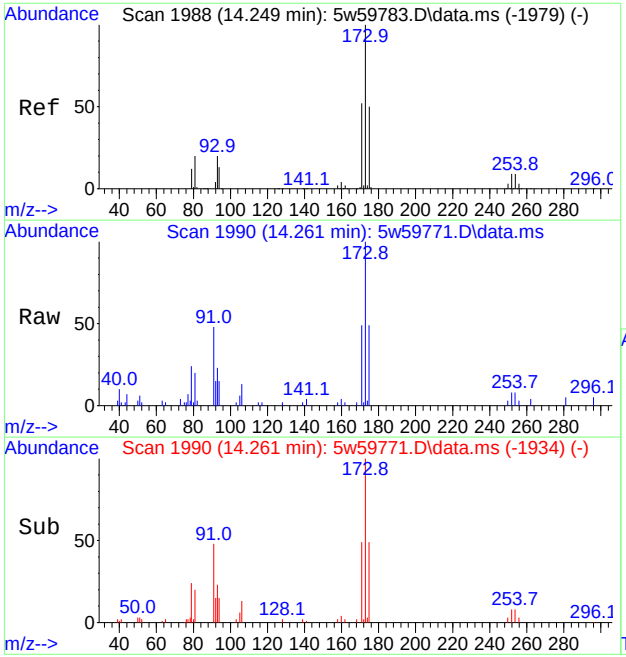


#83
NONANE
Concen: 0.26 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 25033

Ion	Ratio	Lower	Upper
43	100		
71	19.6	0.0	52.7
128	6.3	0.0	34.7

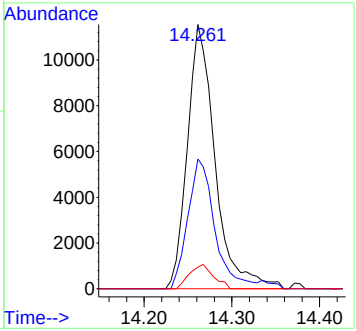


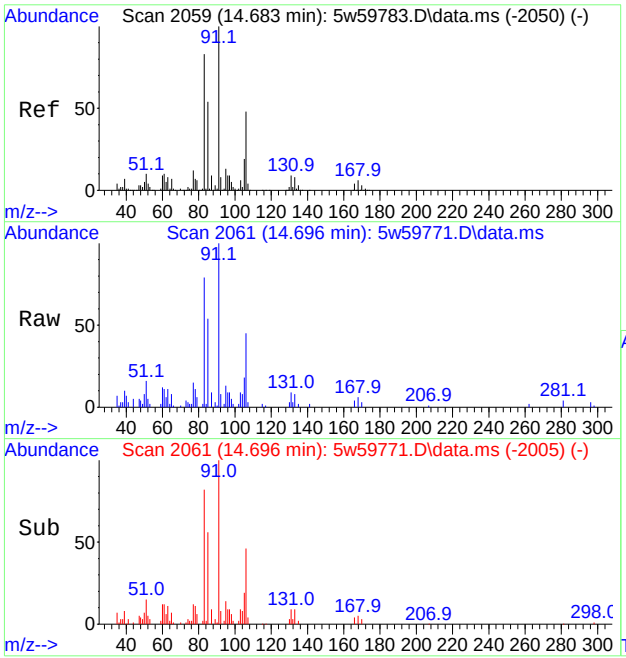


#84
BROMOFORM
Concen: 0.20 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:173 Resp: 25461

Ion	Ratio	Lower	Upper
173	100		
175	49.1	19.6	79.6
254	7.9	0.0	39.0

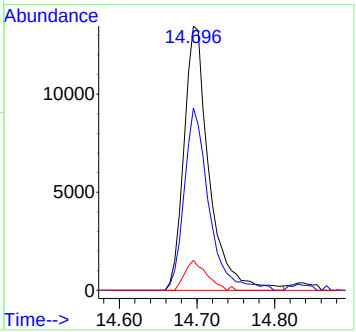


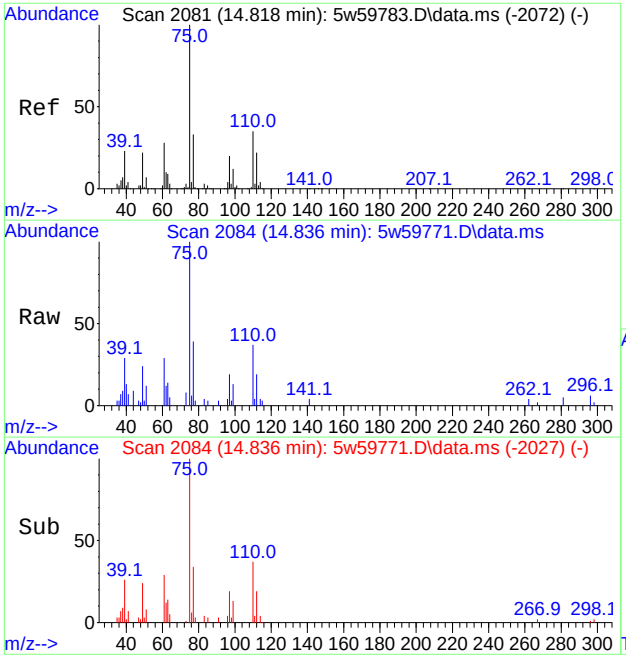


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.23 PPBV
RT: 14.696 min Scan# 2061
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 30281

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	10.0	0.0	40.3

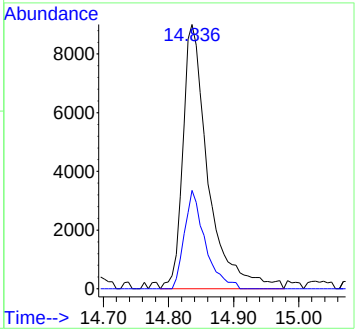


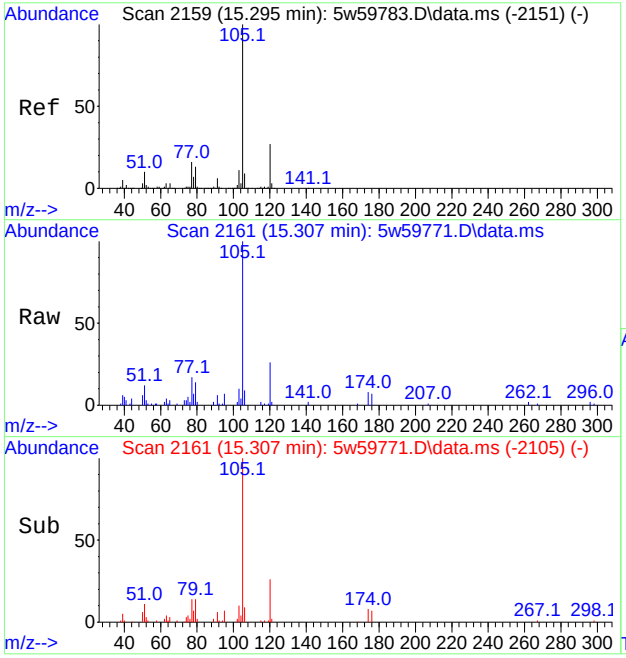


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.24 PPBV
RT: 14.836 min Scan# 2084
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 24248

Ion	Ratio	Lower	Upper
75	100		
110	30.6	4.4	64.4

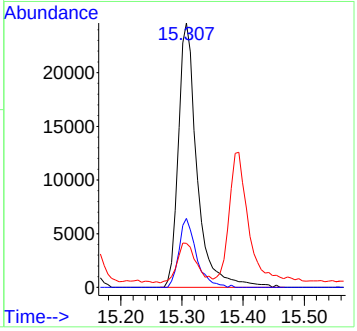


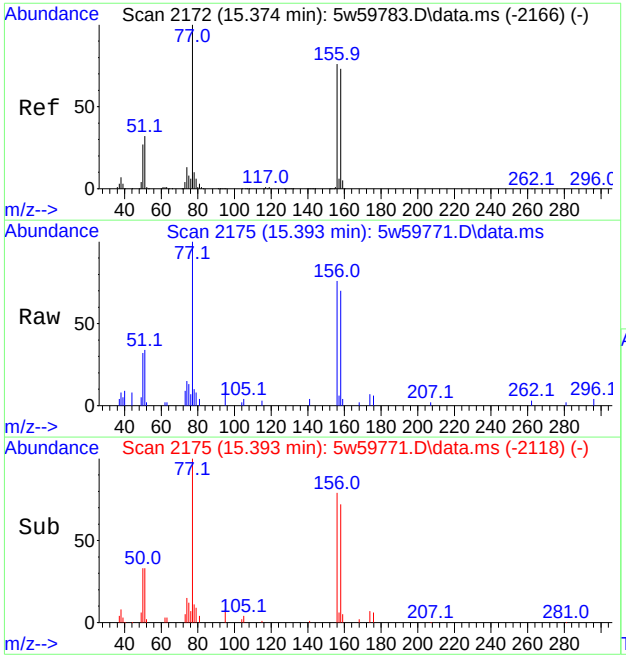


#88
ISOPROPYLBENZENE
Concen: 0.23 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 52329

Ion	Ratio	Lower	Upper
105	100		
120	24.2	0.0	56.0
77	15.5	0.0	45.6

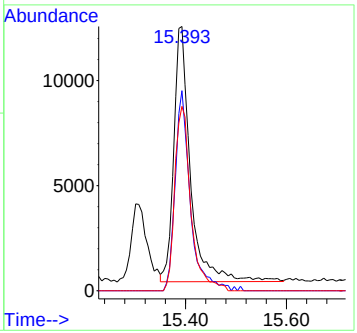


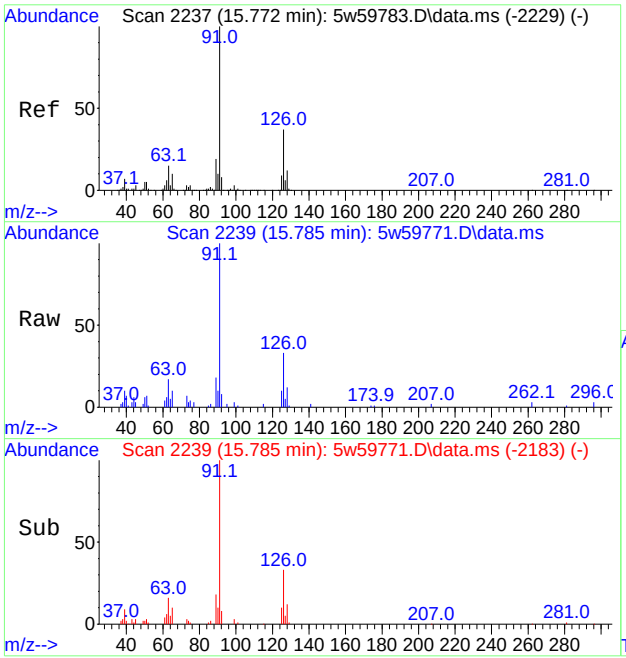


#89
BROMOBENZENE
Concen: 0.24 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 77 Resp: 27933

Ion	Ratio	Lower	Upper
77	100		
156	70.8	54.9	101.9
158	69.8	53.5	99.3

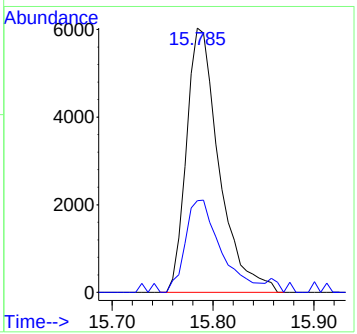


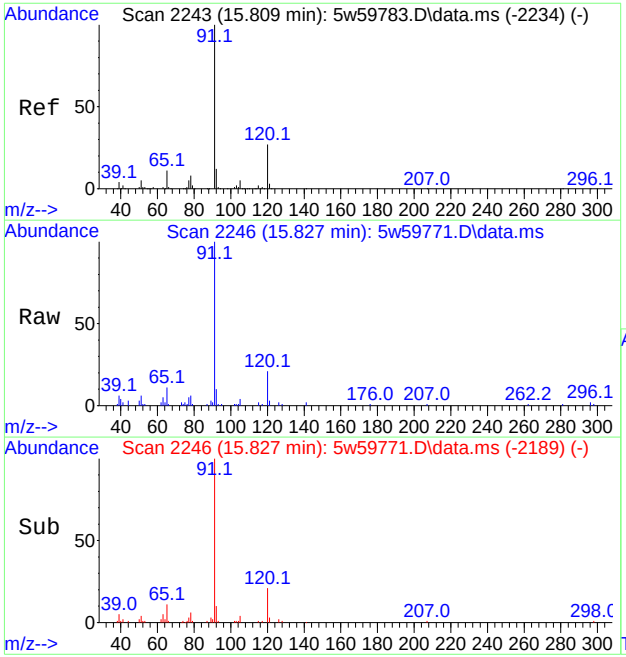


#90
2-CHLOROTOLUENE
Concen: 0.21 PPBV
RT: 15.785 min Scan# 2239
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:126 Resp: 13598

Ion	Ratio	Lower	Upper
126	100		
128	40.4	2.7	62.7

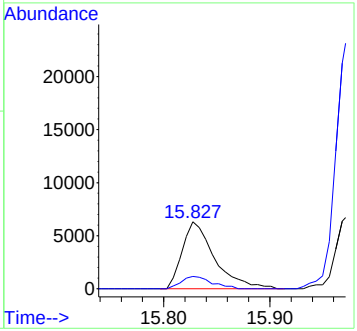


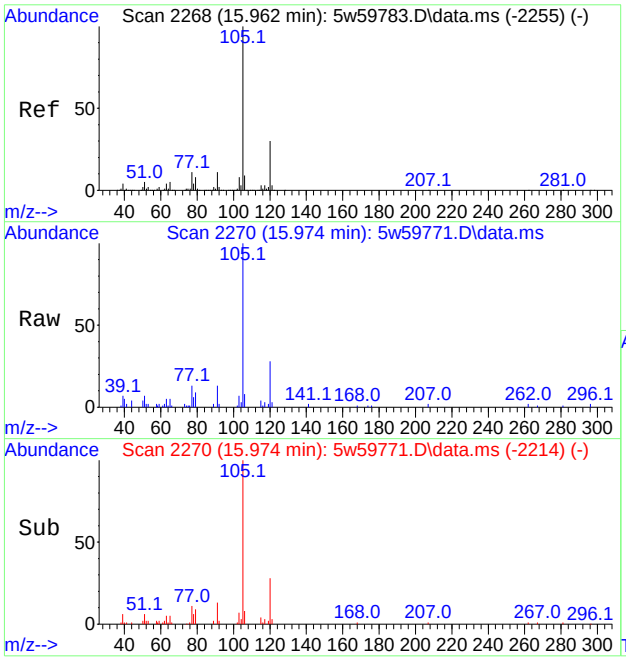


#91
n-PROPYLBENZENE
Concen: 0.21 PPBV
RT: 15.827 min Scan# 2246
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:120 Resp: 13388

Ion	Ratio	Lower	Upper
120	100		
105	17.4	0.0	47.0

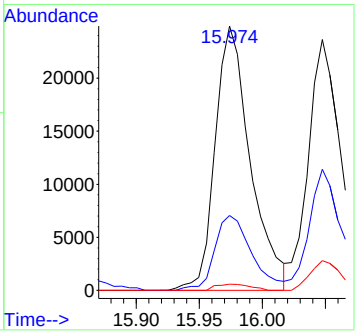


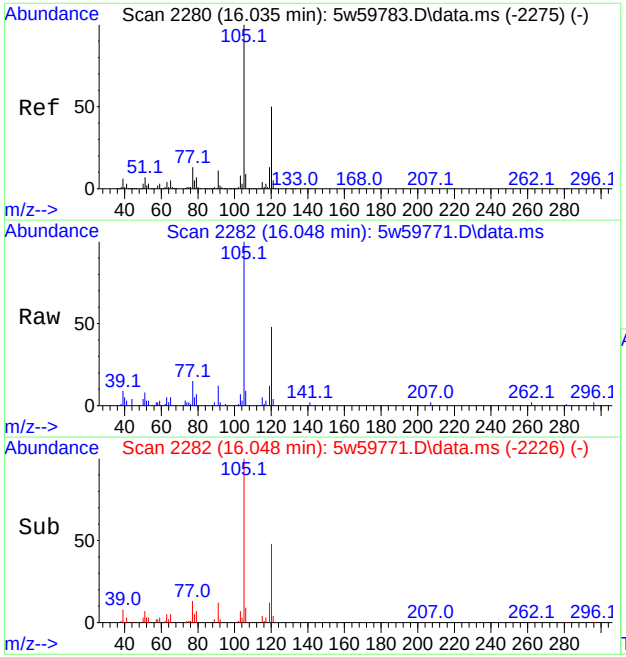


#92
4-ETHYLTOLUENE
Concen: 0.22 PPBV
RT: 15.974 min Scan# 2270
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48336

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	59.9
119	2.3	0.0	32.3

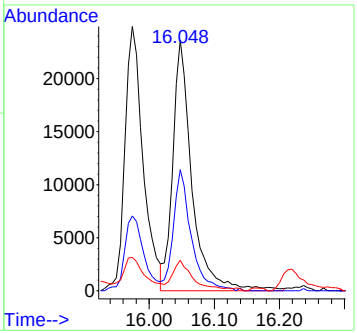


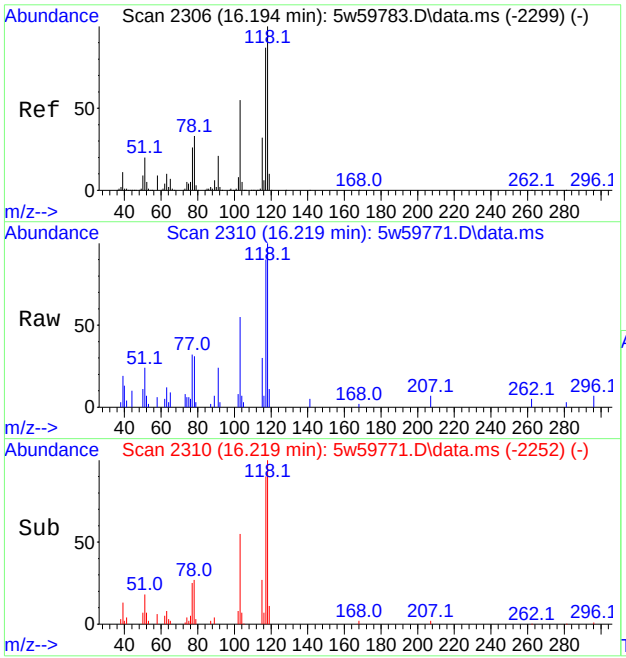


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.26 PPBV
RT: 16.048 min Scan# 2282
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48446

Ion	Ratio	Lower	Upper
105	100		
120	45.0	19.4	79.4
91	13.3	0.0	40.8

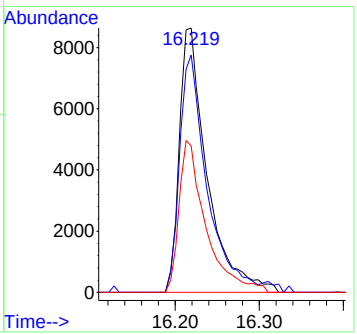


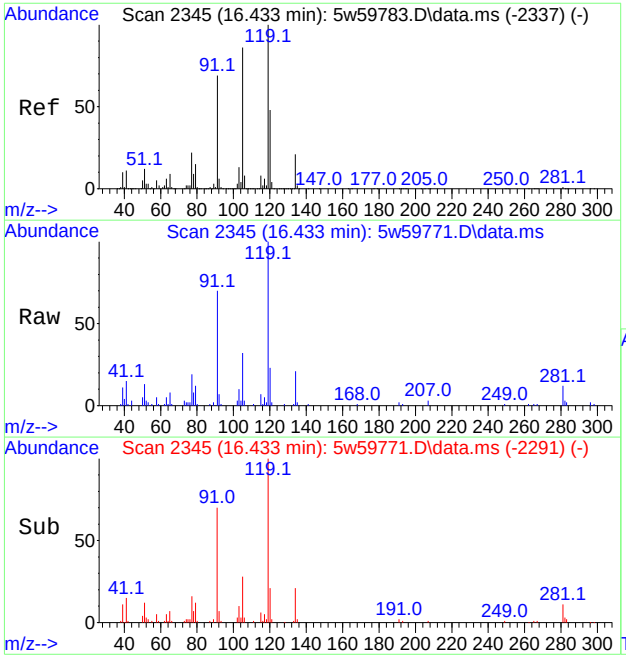


#94
ALPHA-METHYLSTYRENE
Concen: 0.19 PPBV
RT: 16.219 min Scan# 2310
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:118 Resp: 19855

Ion	Ratio	Lower	Upper
118	100		
117	90.9	60.9	113.1
103	55.4	38.6	71.8

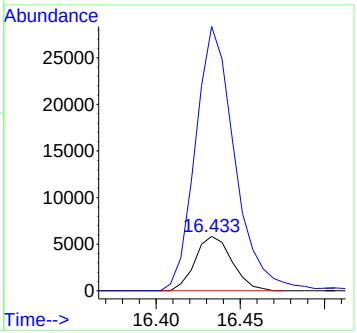


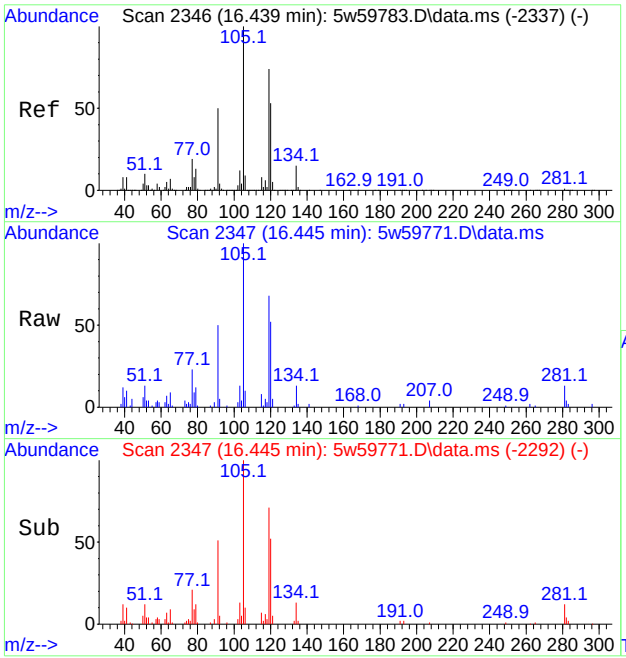


#95
tert-BUTYLBENZENE
Concen: 0.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 8909

Ion	Ratio	Lower	Upper
134	100		
119	524.3	459.3	519.3#

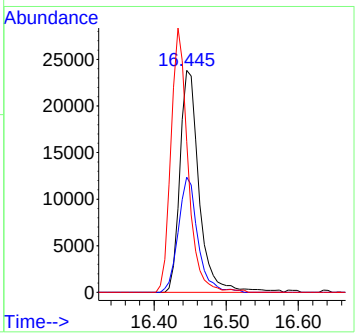


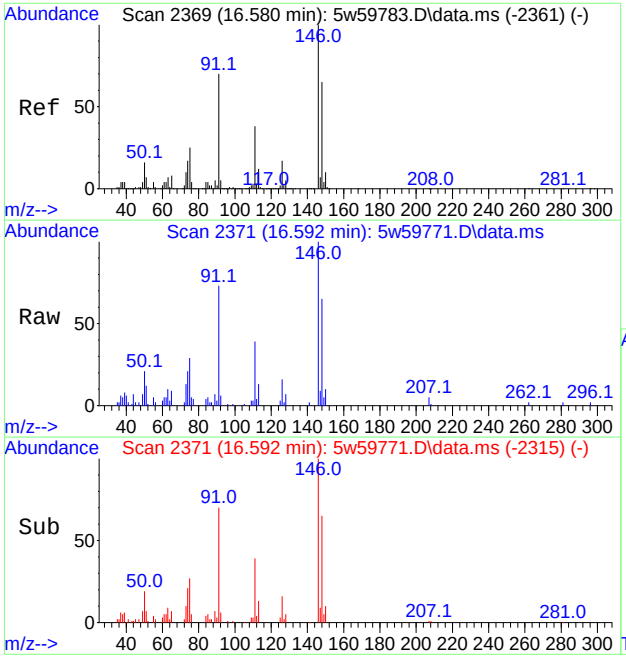


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 44191

Ion	Ratio	Lower	Upper
105	100		
120	52.7	25.7	85.7
119	105.7	75.7	135.7

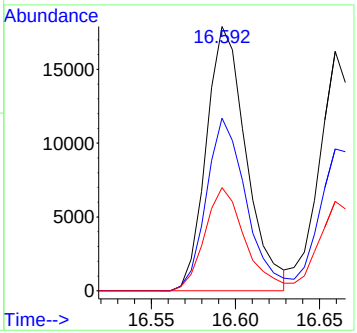


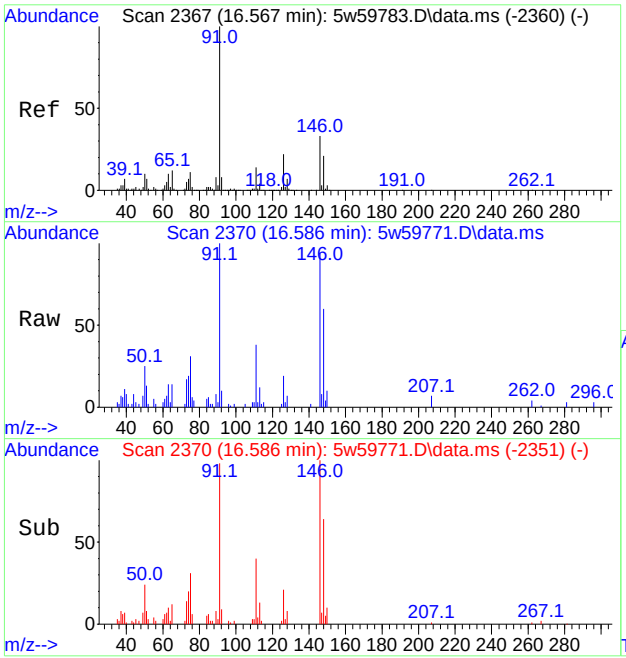


#97
m-DICHLOROBENZENE
Concen: 0.20 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 29601

Ion	Ratio	Lower	Upper
146	100		
148	66.0	34.8	94.8
111	39.3	8.2	68.2

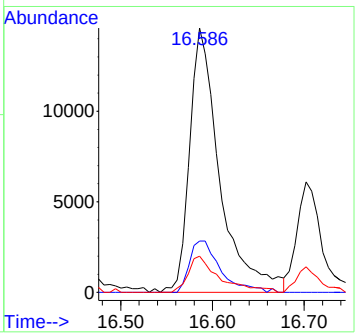


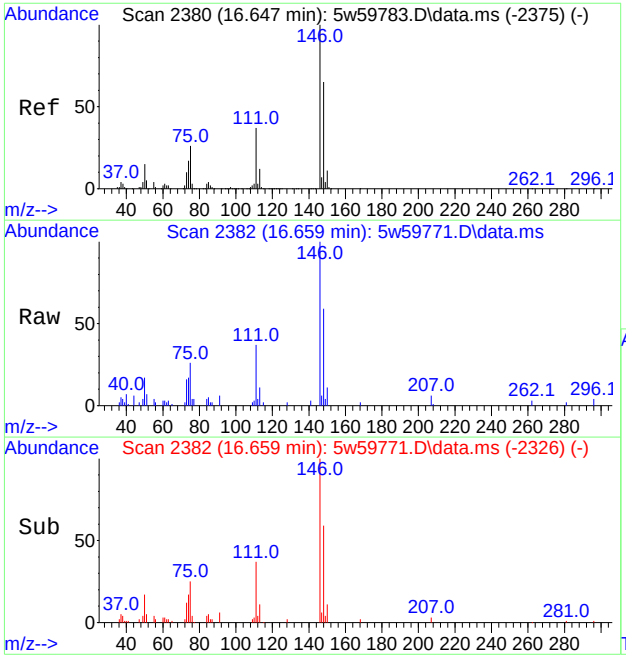


#98
BENZYL CHLORIDE
Concen: 0.19 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 33418

Ion	Ratio	Lower	Upper
91	100		
126	20.0	0.0	51.7
65	14.3	0.0	42.2

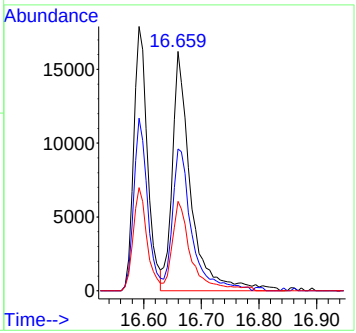


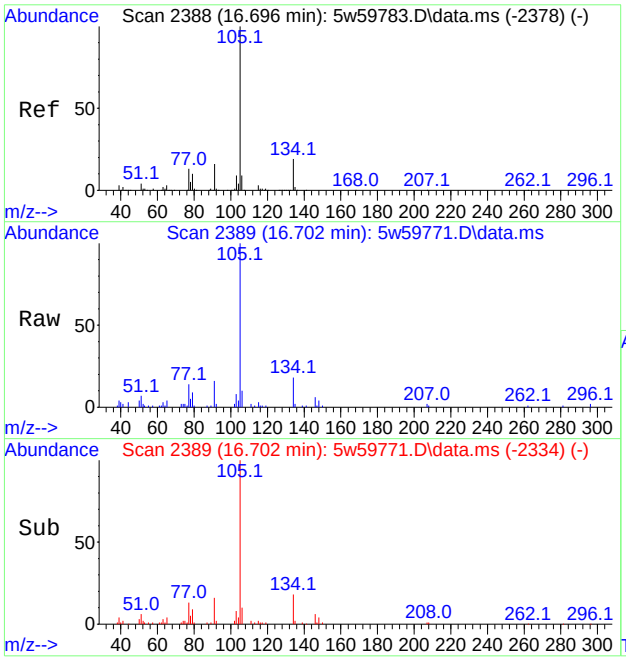


#99
p-DICHLOROBENZENE
Concen: 0.24 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 36208

Ion	Ratio	Lower	Upper
146	100		
148	61.8	34.6	94.6
111	38.4	6.7	66.7

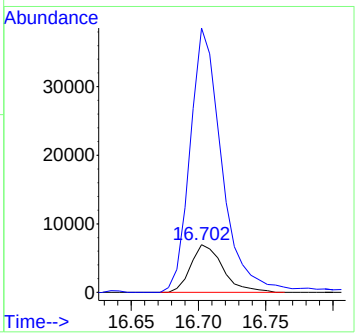


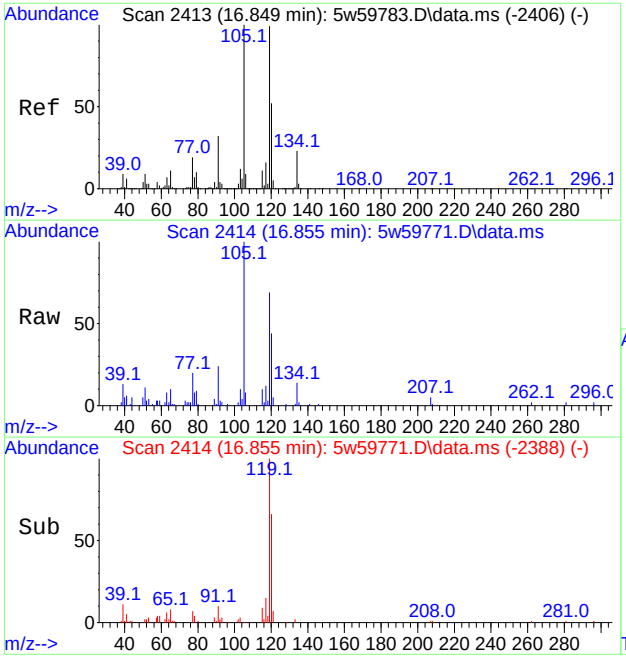


#100
sec-BUTYLBENZENE
Concen: 0.23 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 11583

Ion	Ratio	Lower	Upper
134	100		
105	557.6	502.5	562.5

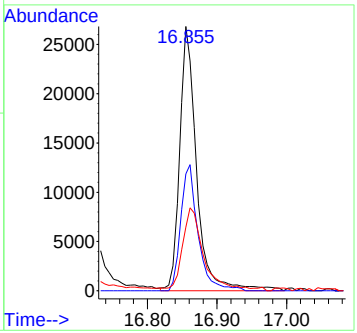


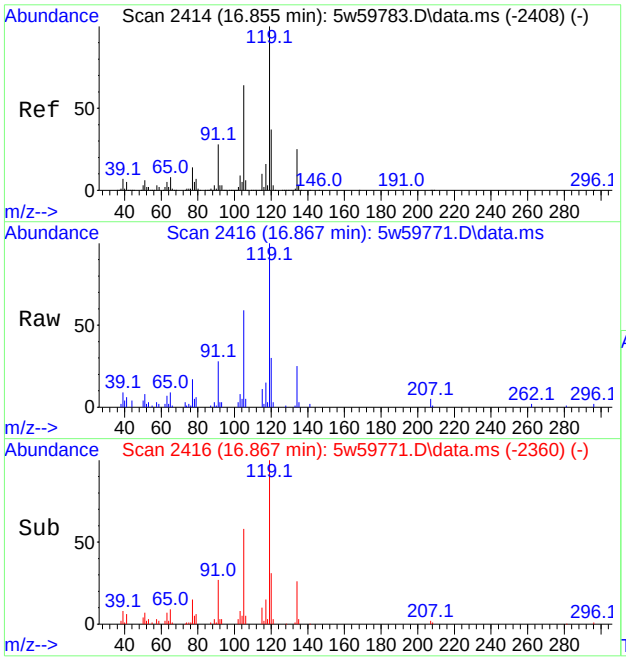


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 45724

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	39.5	7.4	67.4

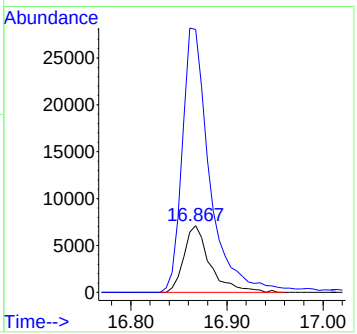


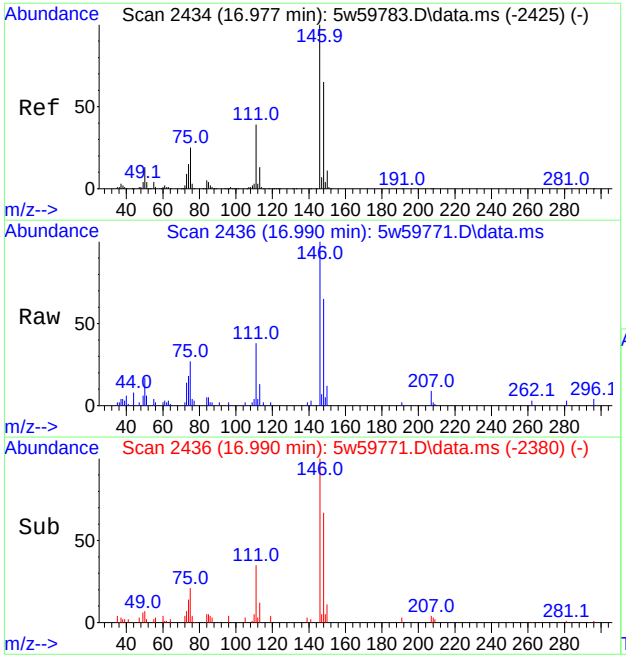


#102
p-ISOPROPYLTOLUENE
Concen: 0.23 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 13423

Ion	Ratio	Lower	Upper
134	100		
119	423.6	377.7	437.7

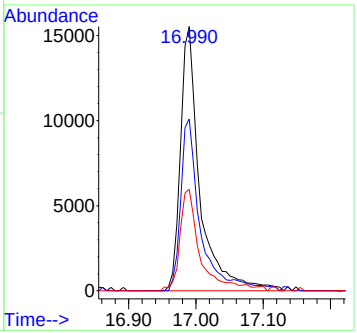


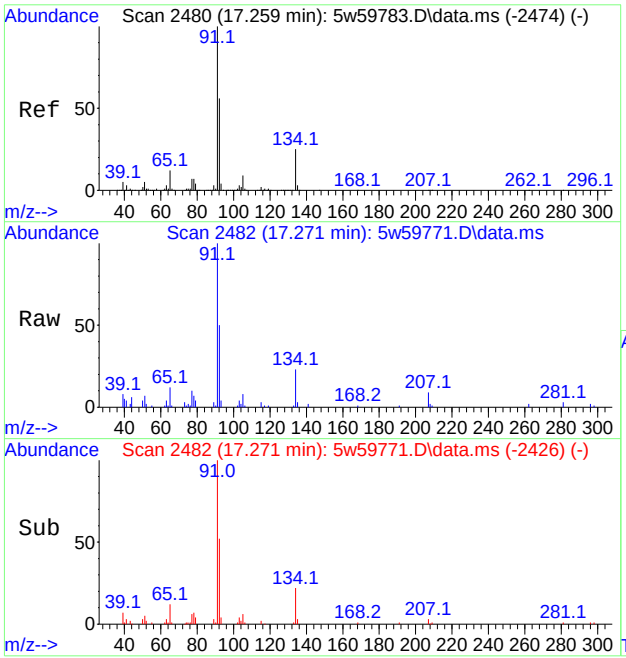


#103
o-DICHLOROBENZENE
Concen: 0.22 PPBV
RT: 16.990 min Scan# 2436
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 31360

Ion	Ratio	Lower	Upper
146	100		
148	65.8	34.3	94.3
111	40.0	9.2	69.2

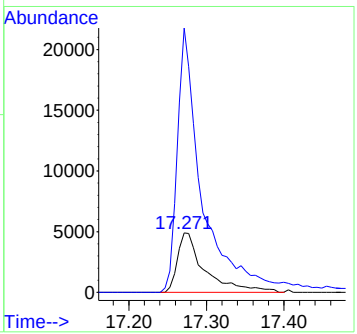


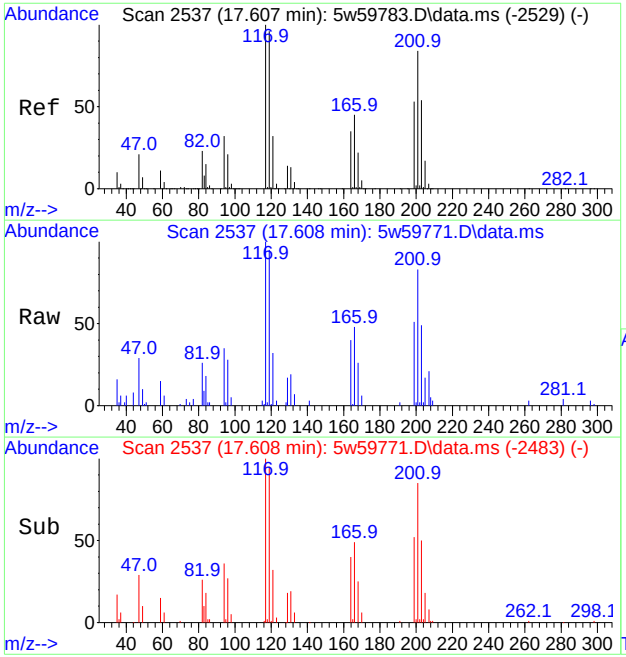


#104
n-BUTYLBENZENE
Concen: 0.20 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 12074

Ion	Ratio	Lower	Upper
134	100		
91	432.2	363.1	423.1#

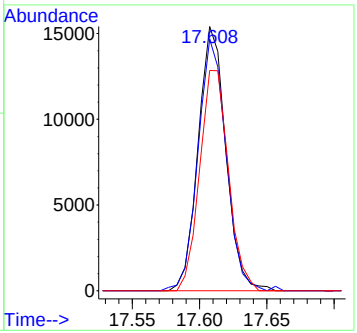


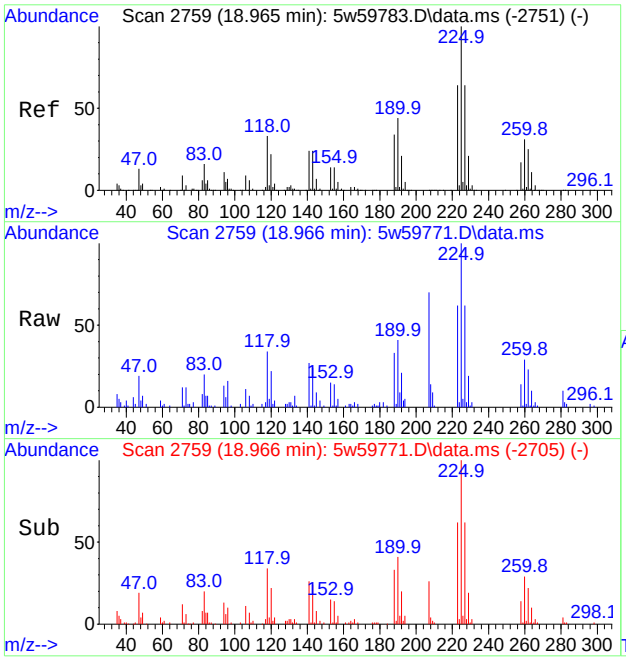


#105
HEXACHLOROETHANE
Concen: 0.23 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 22122

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.2	124.8
201	86.3	61.1	113.5

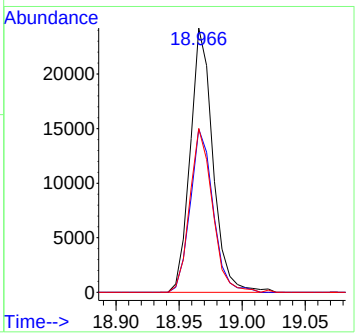


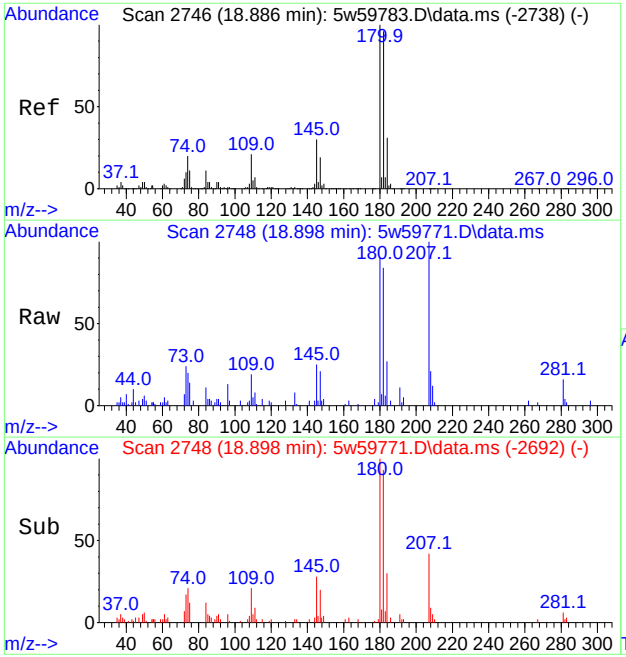


#106
HEXACHLOROBUTADIENE
Concen: 0.23 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:225 Resp: 30270

Ion	Ratio	Lower	Upper
225	100		
227	62.2	34.2	94.2
223	62.0	33.3	93.3

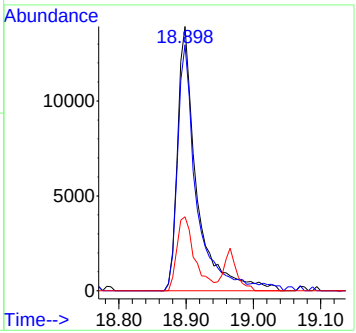


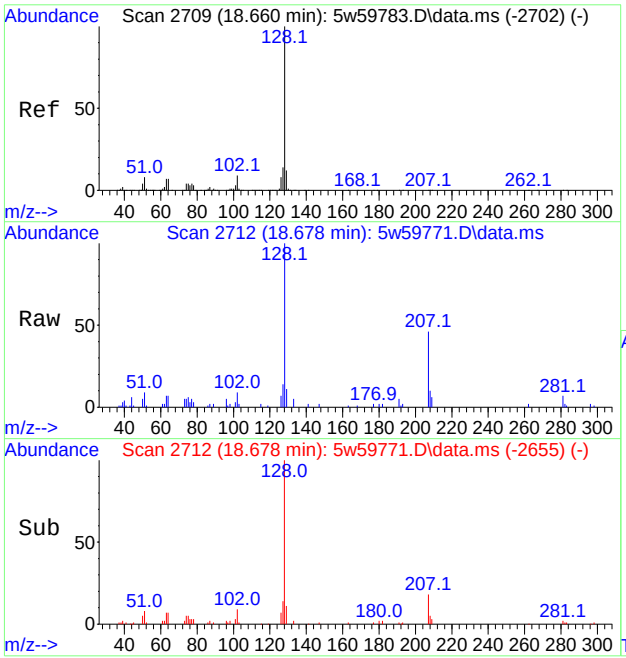


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.21 PPBV
RT: 18.898 min Scan# 2748
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:180 Resp: 27720

Ion	Ratio	Lower	Upper
180	100		
182	93.4	65.4	125.4
145	26.0	0.0	59.4

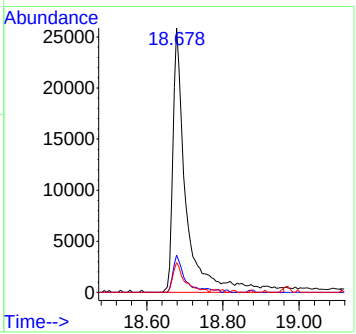


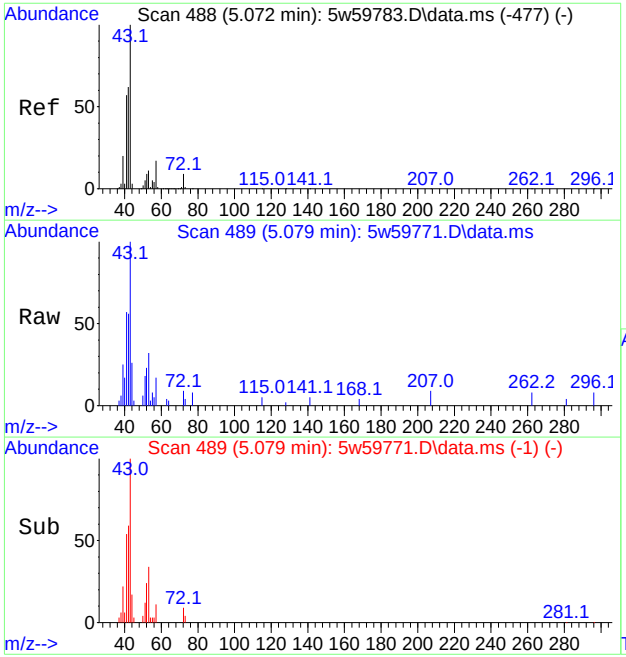


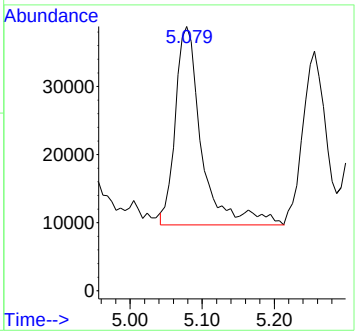
#108
NAPHTHALENE
Concen: 0.22 PPBV
RT: 18.678 min Scan# 2712
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:128 Resp: 62904

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	43.3
129	9.9	0.0	41.4







#110
TVHC as equiv Pentane
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:TIC Resp: 73523

Manual Integration Approval Summary

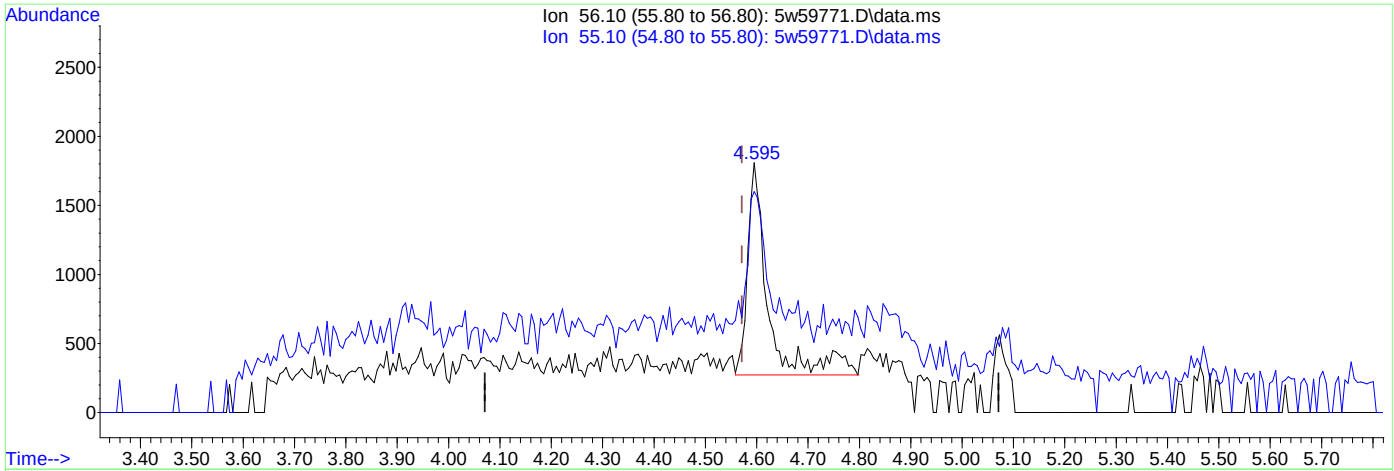
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59771.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:50 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

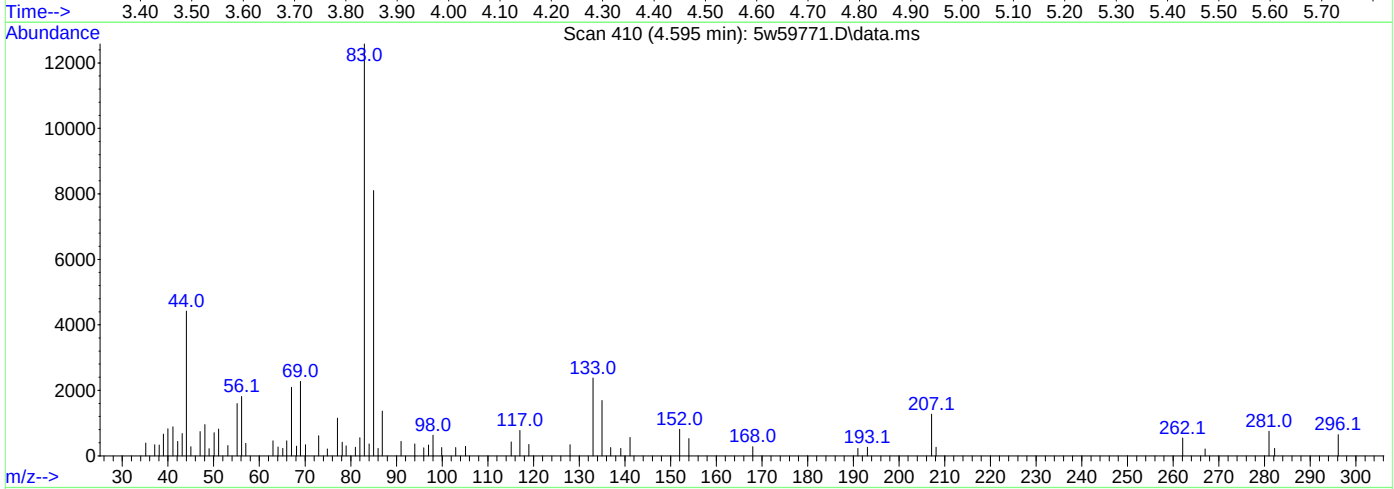
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl Acrylate	96-33-3		7.49	Missed peak
Ethyl Acetate	141-78-6		7.50	Poor instrument integration
Ethyl Acrylate	140-88-5		9.80	Missed peak
1,3-Dichloropropane	142-28-9		11.78	Poor instrument integration
2-Hexanone	591-78-6		12.17	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.29PPBV

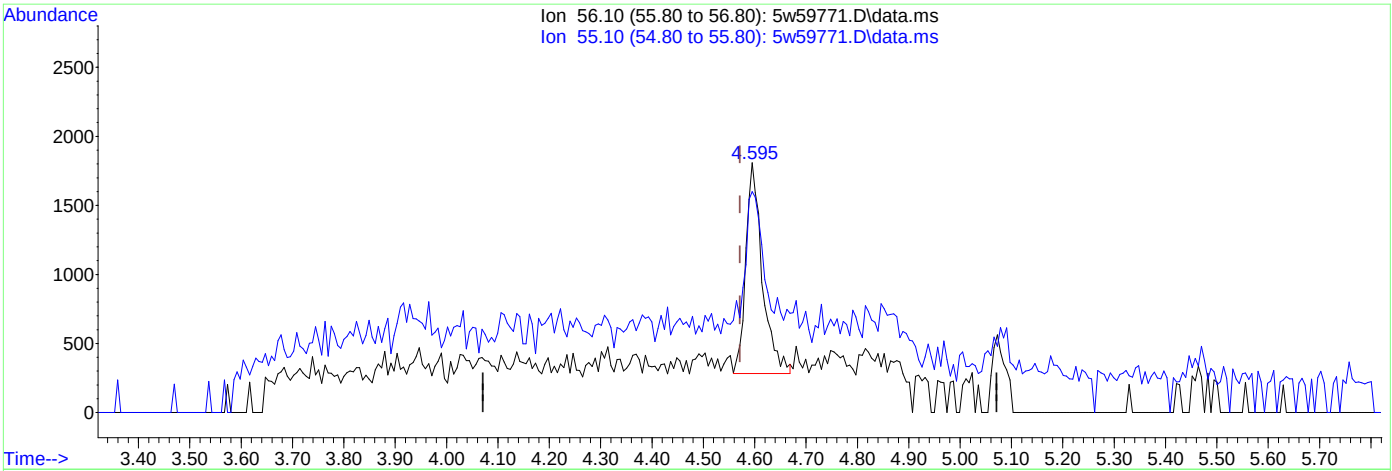
response 4217

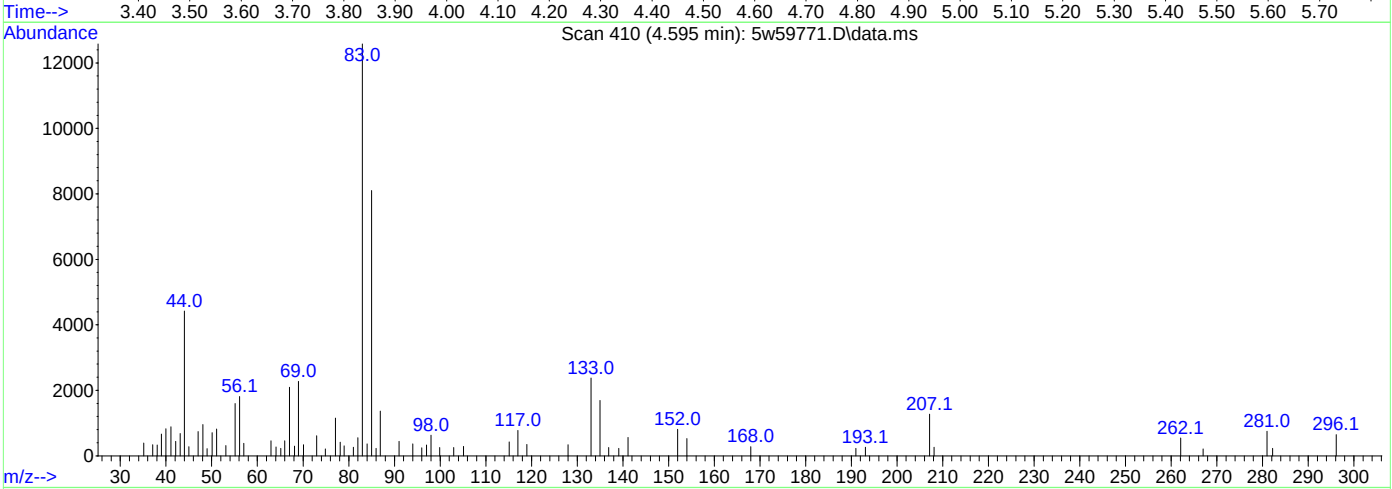
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	80.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.24PPBV m

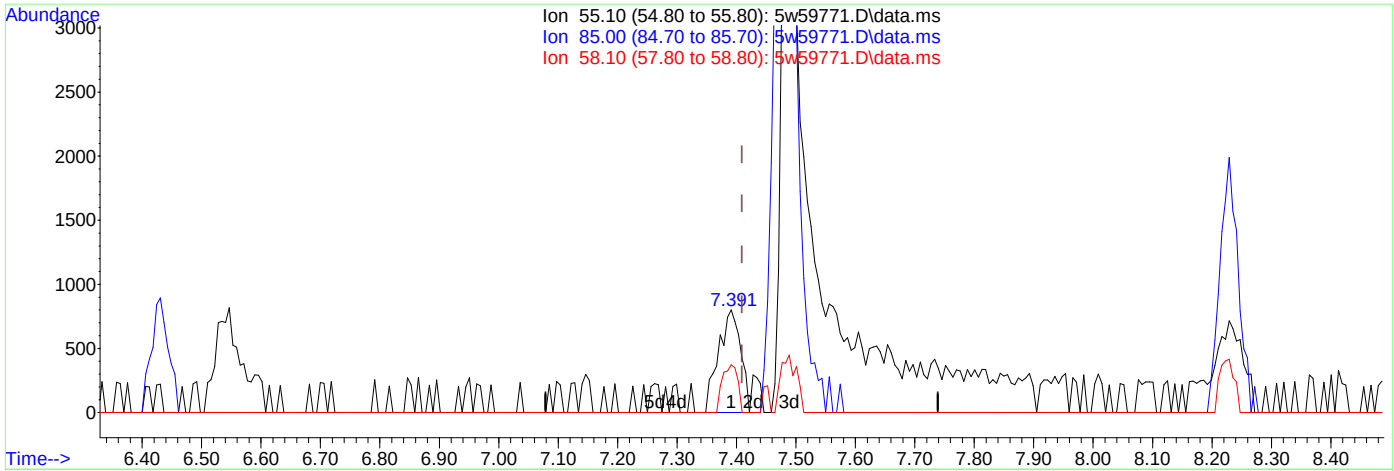
response 3414

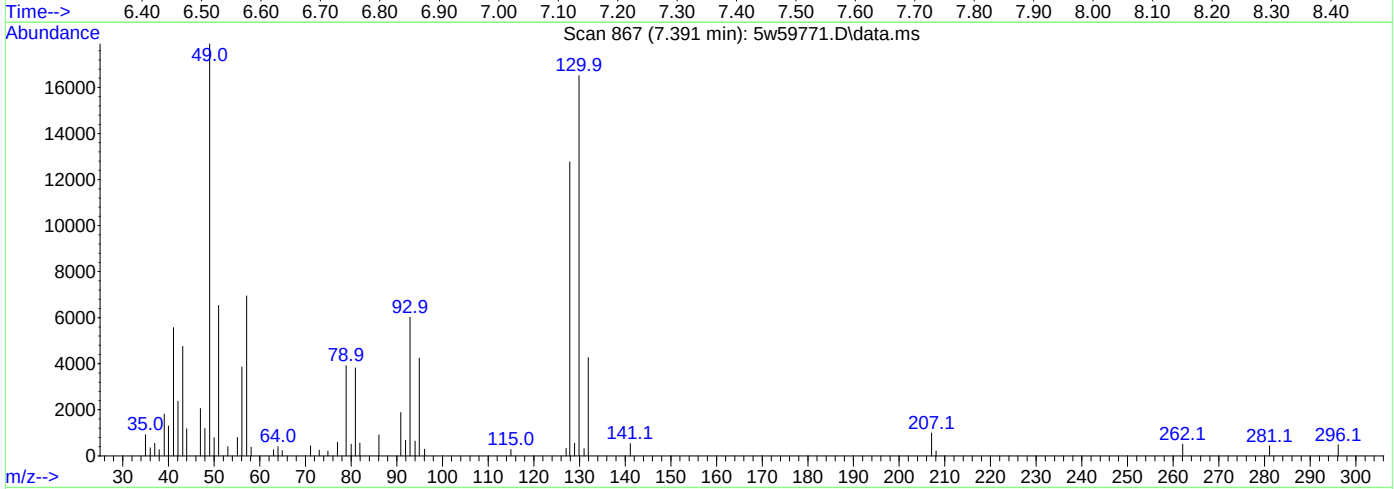
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	99.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.391min (-0.018) 0.03PPBV

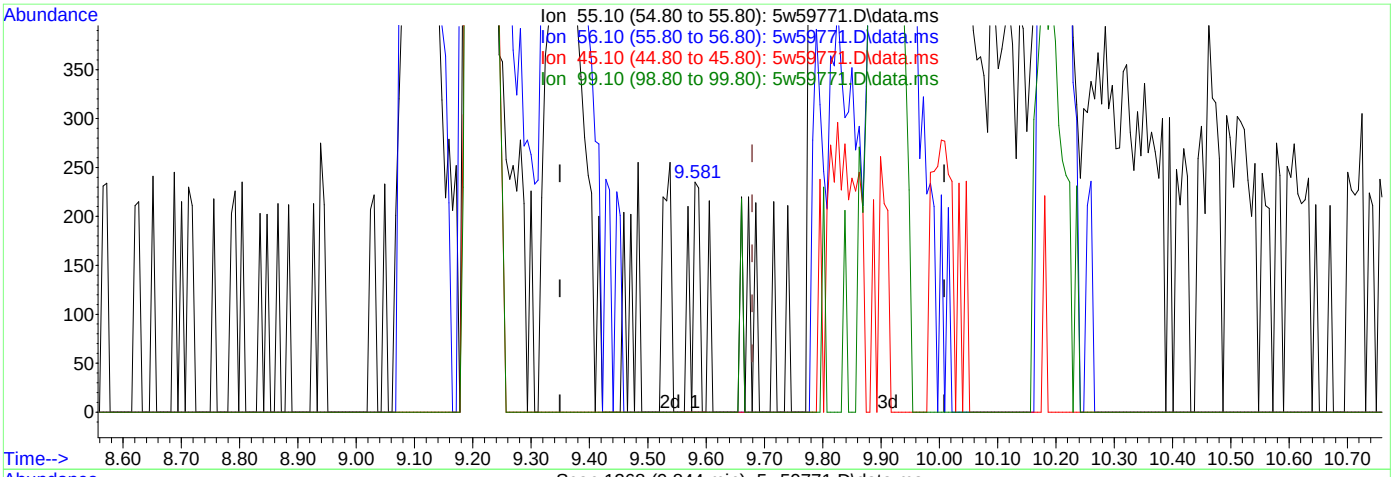
response 2074

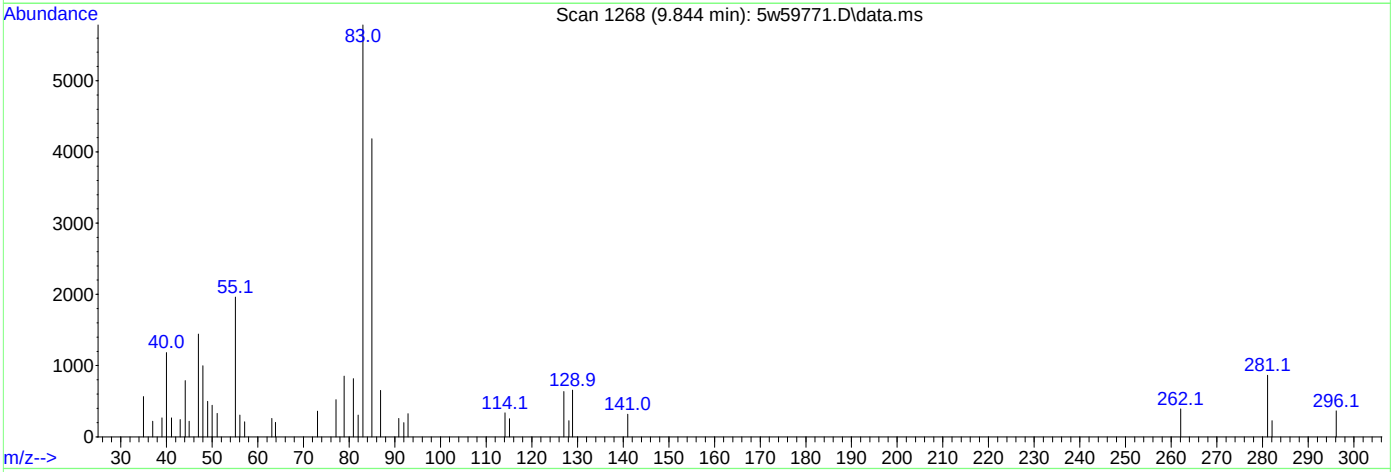
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	31.97#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.581min (-0.098) 0.00PPBV

response 247

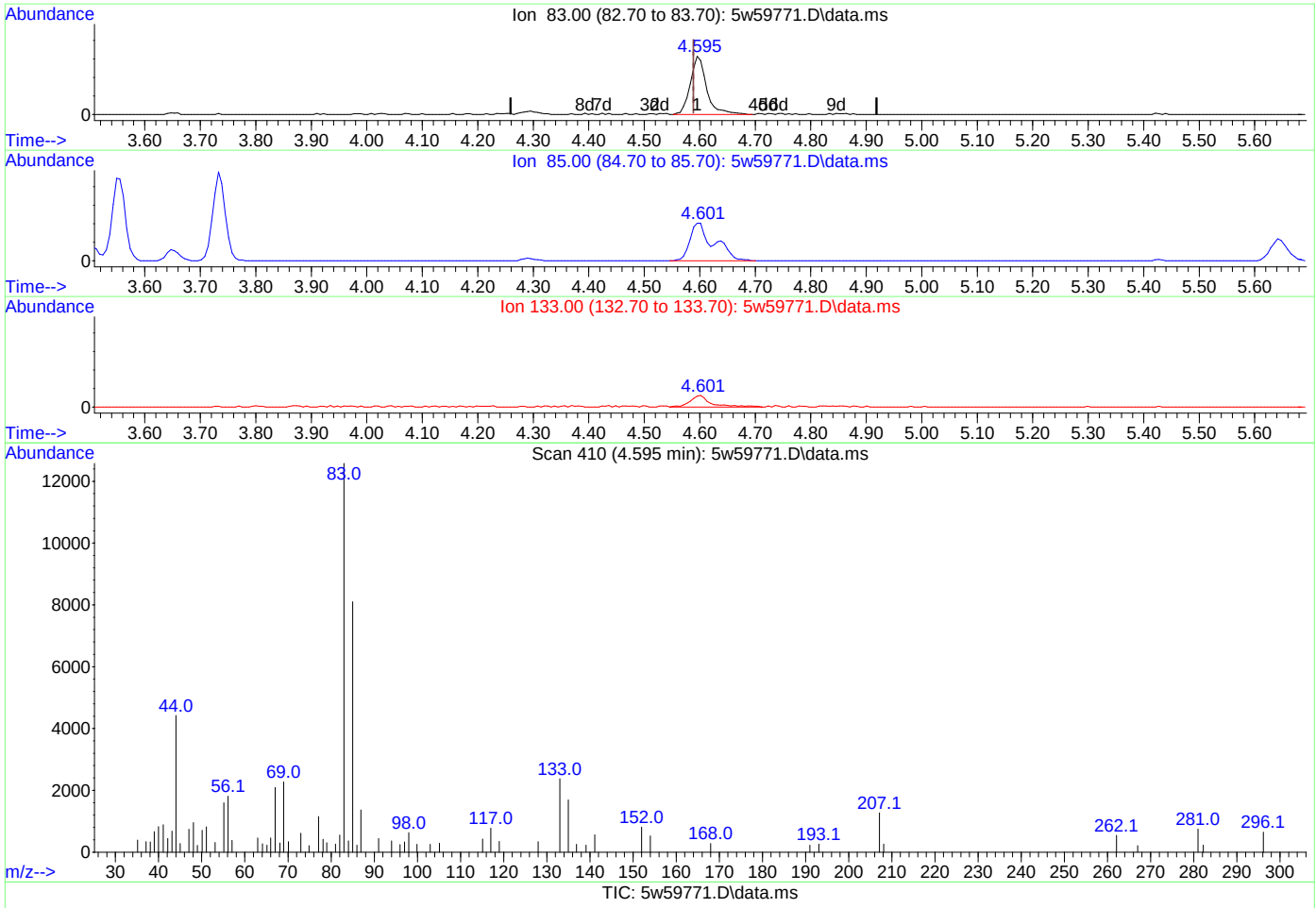
Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

5W59771.D edits: ETHYL ACRYLATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV

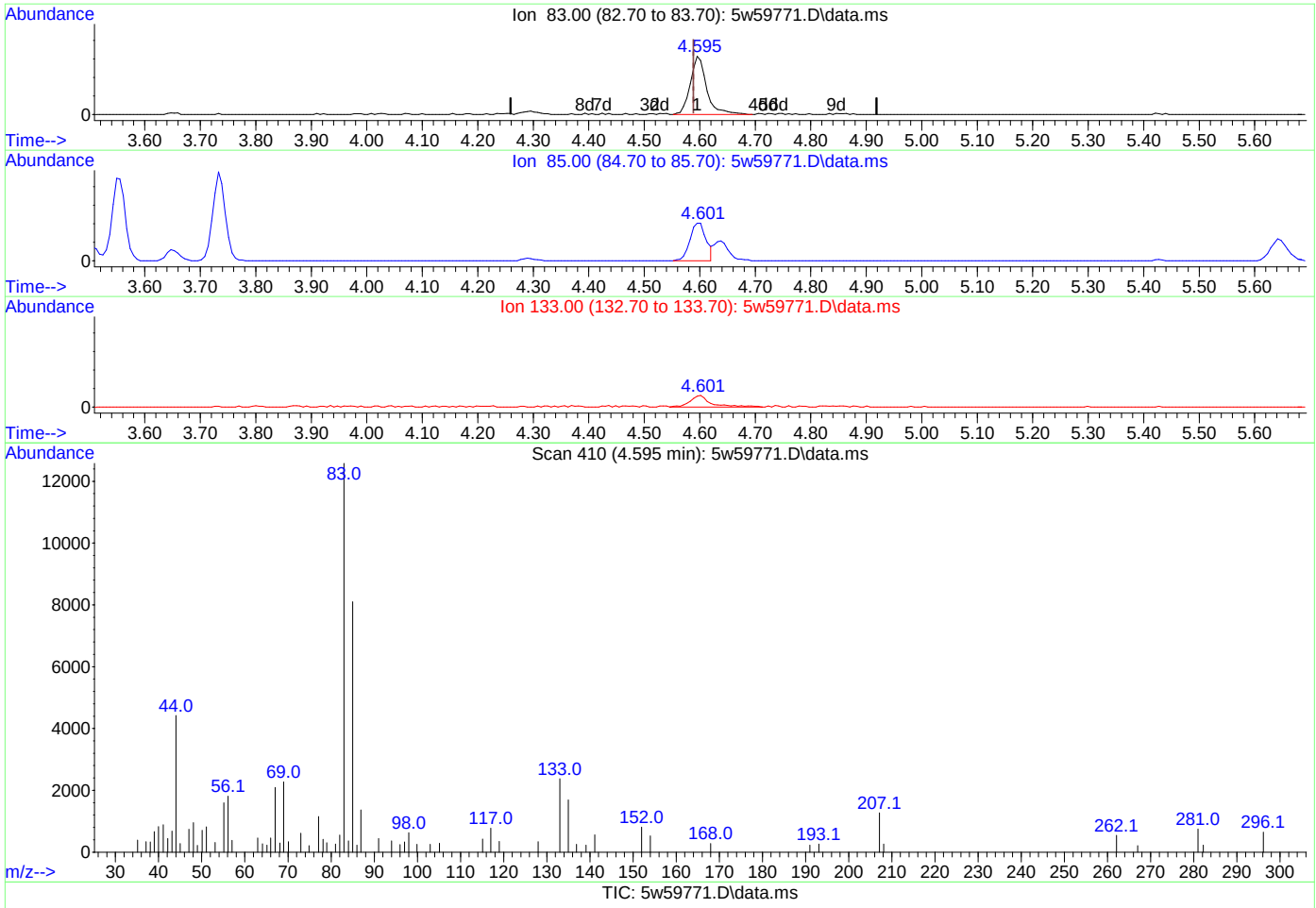
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.04#
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV m

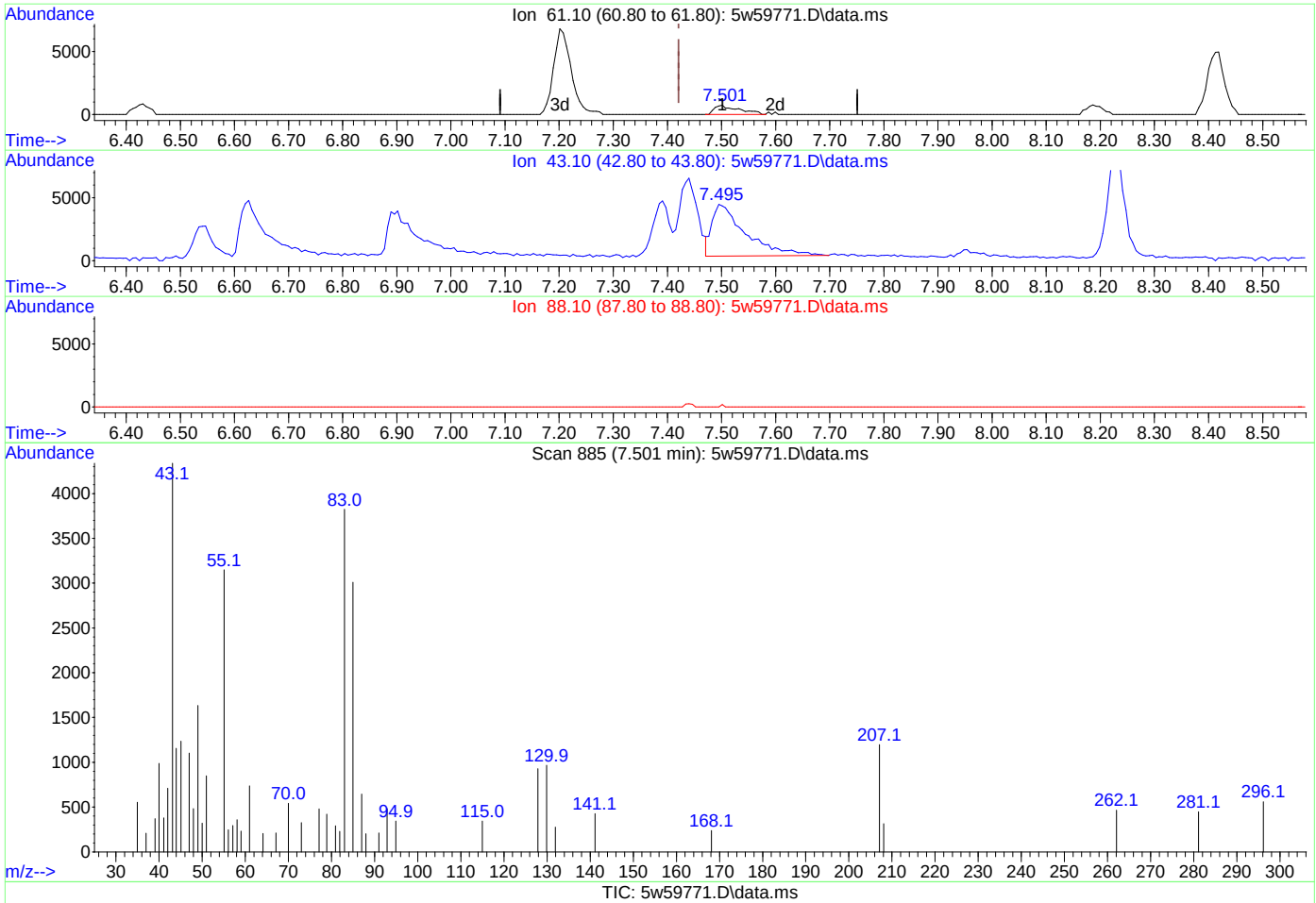
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	64.29
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV

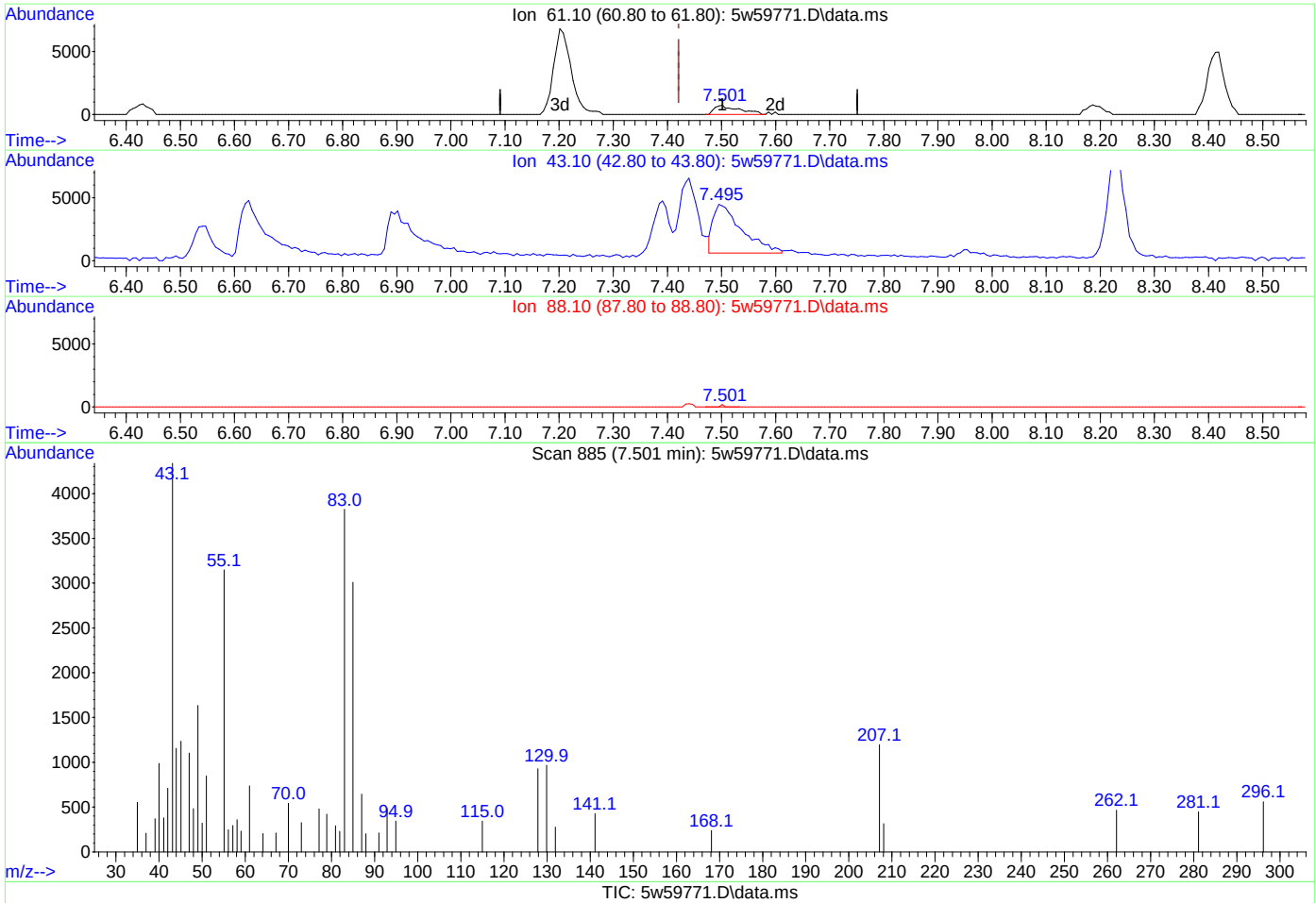
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	764.40#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV m

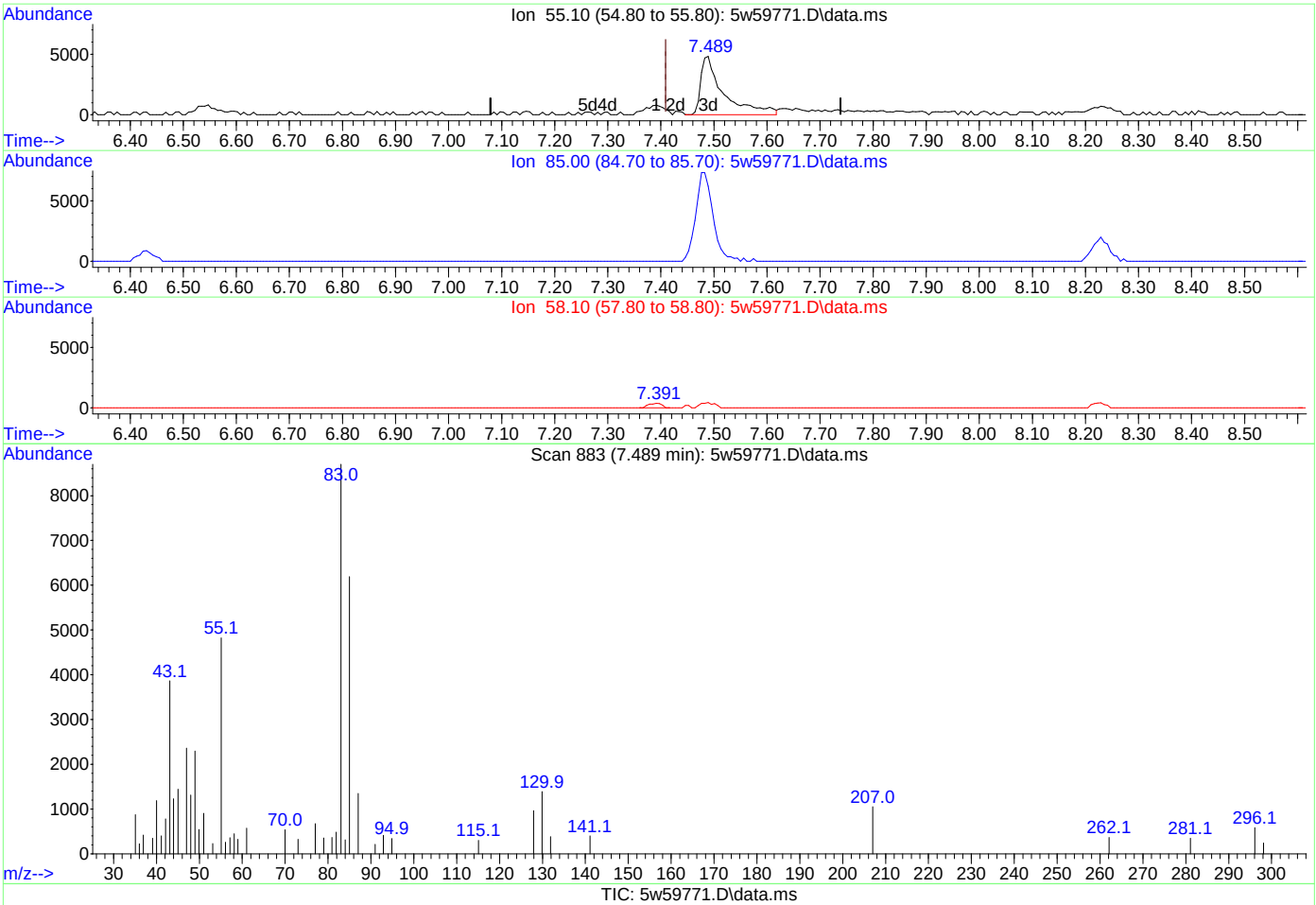
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	613.12
88.10	34.50	3.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.489min (+0.080) 0.17PPBV m

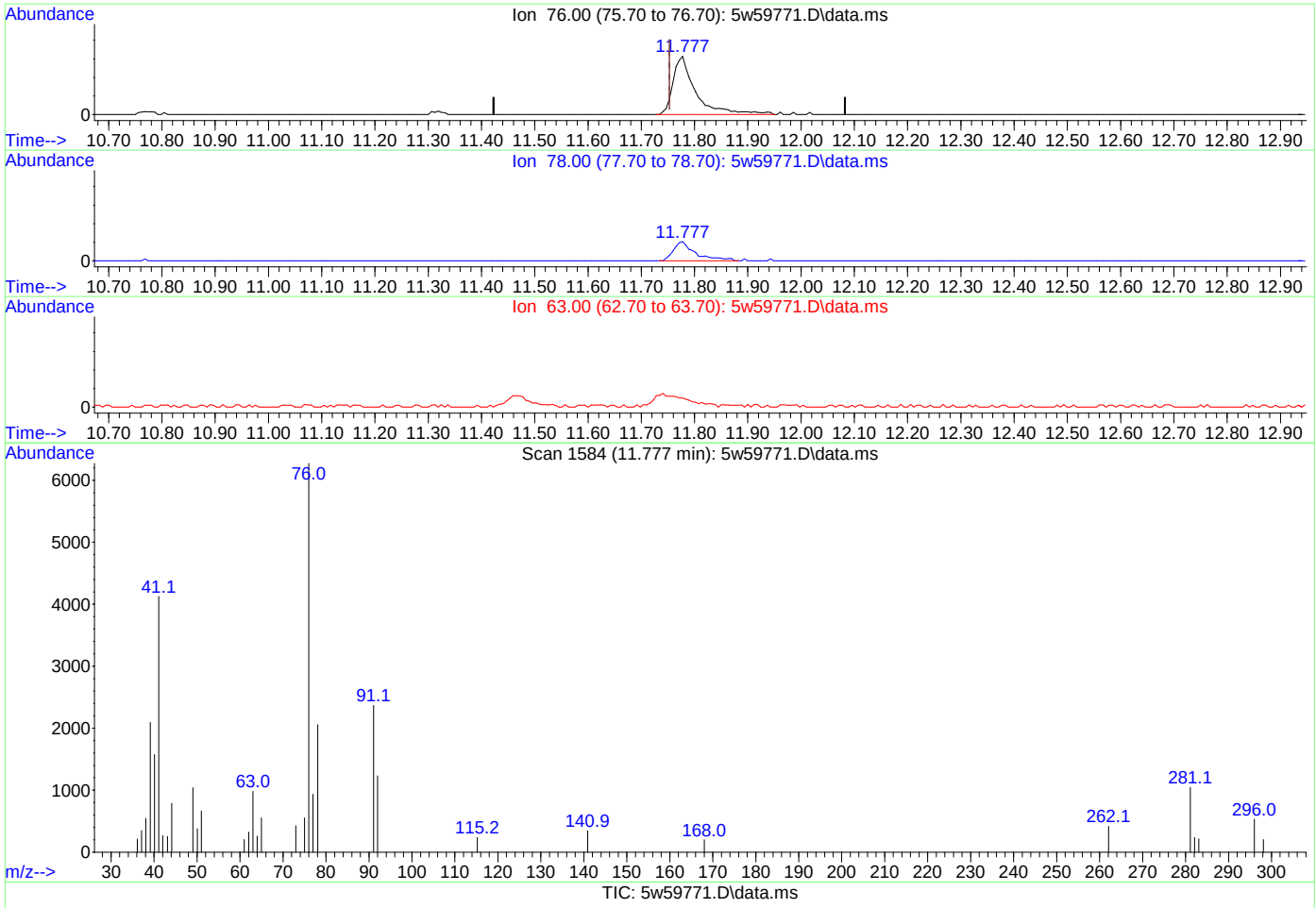
response 14366

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	4.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV

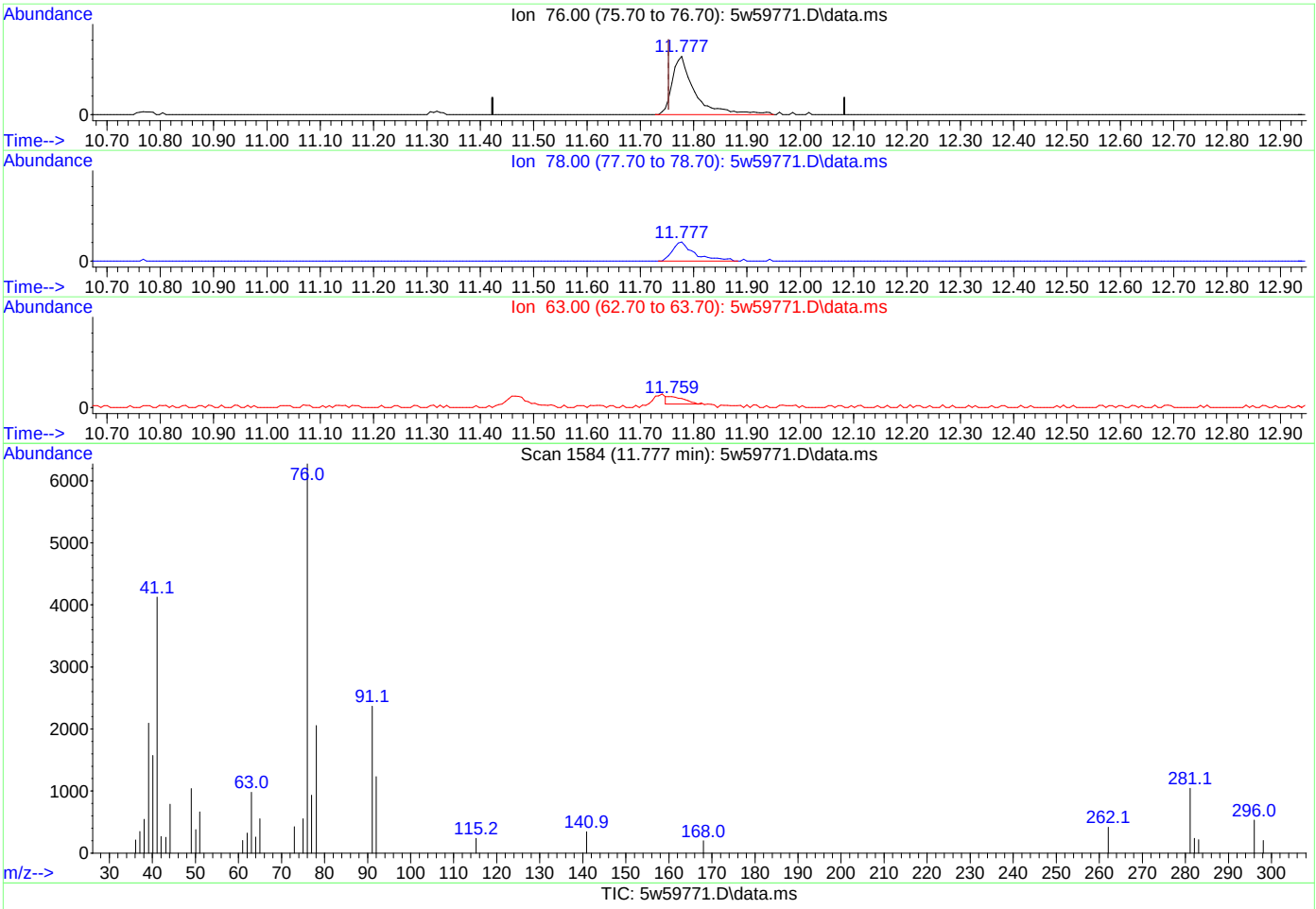
response 18562

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV m

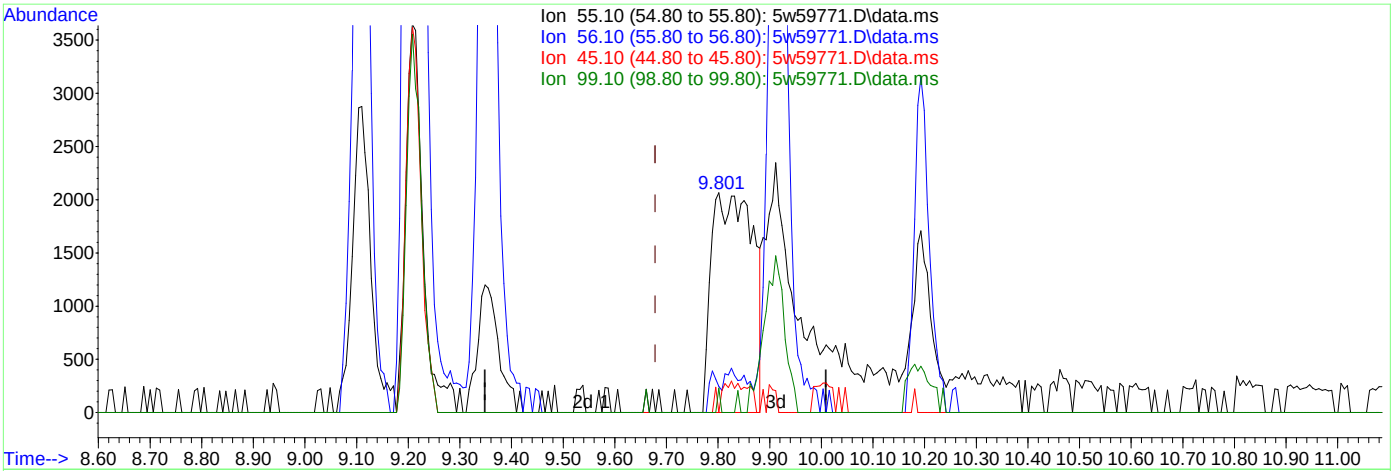
response 18562

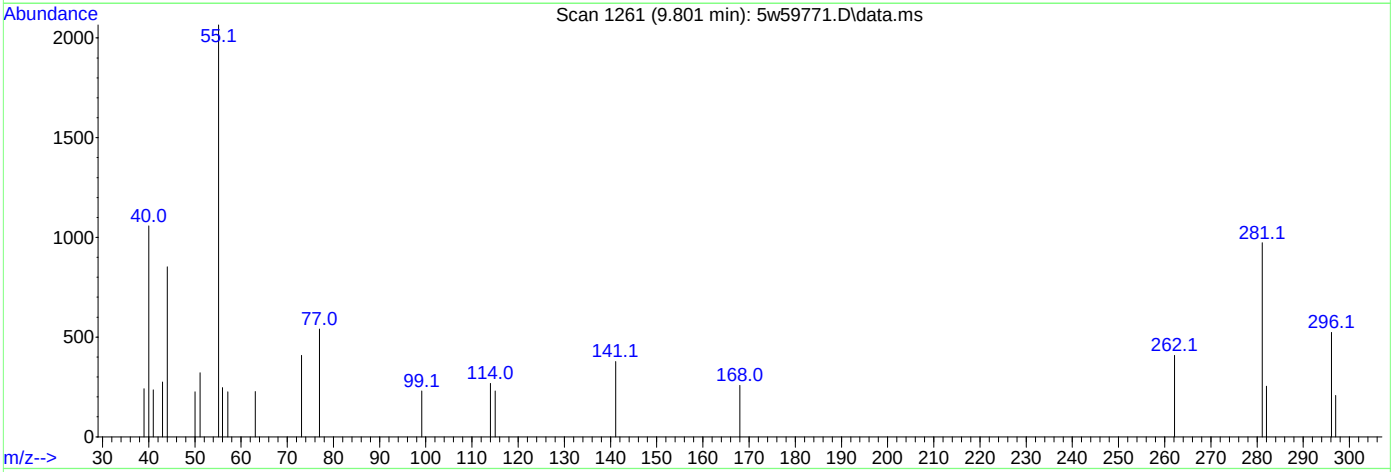
Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	9.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:17:39 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.801min (+0.122) 0.10PPBV m

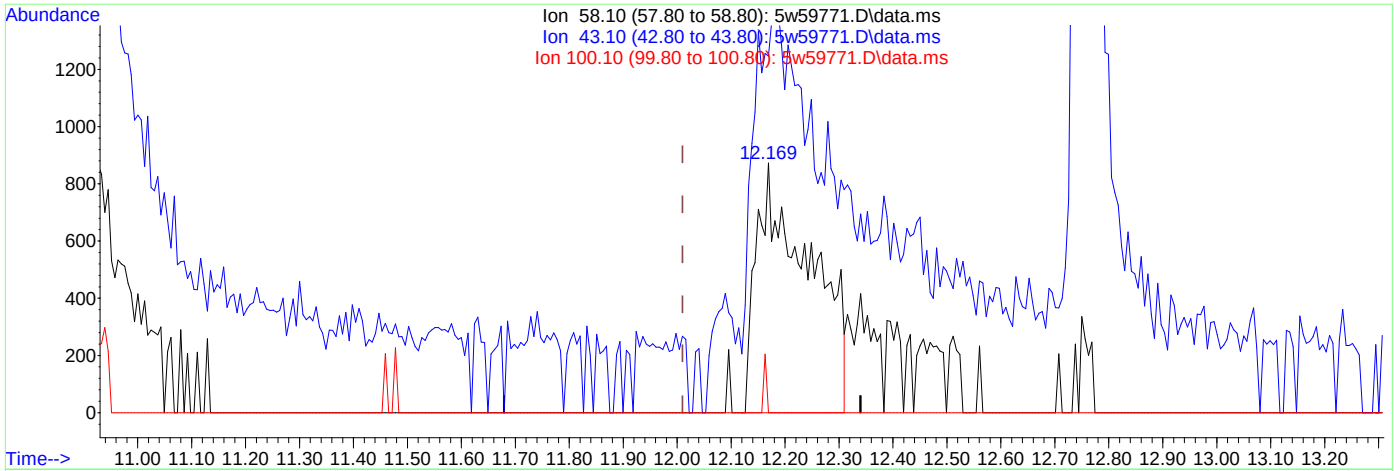
response 11494

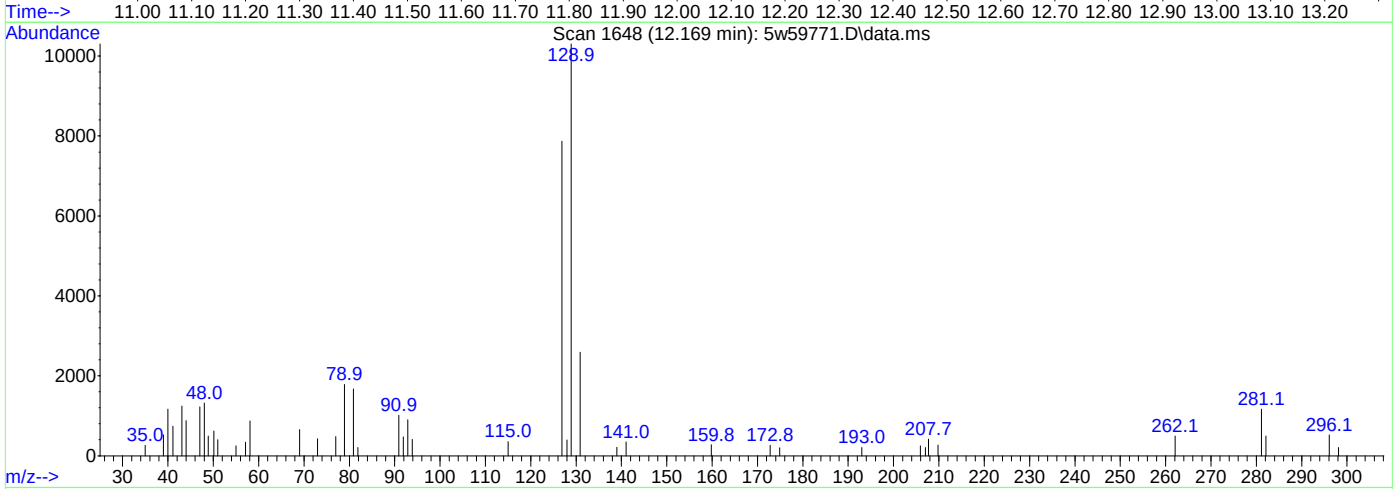
Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.11PPBV

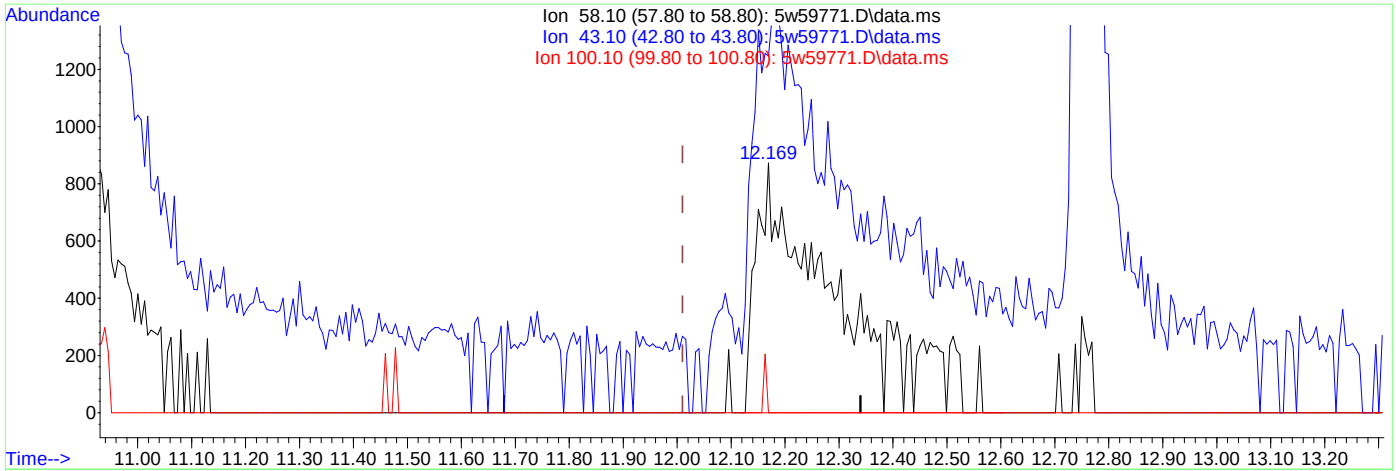
response 5939

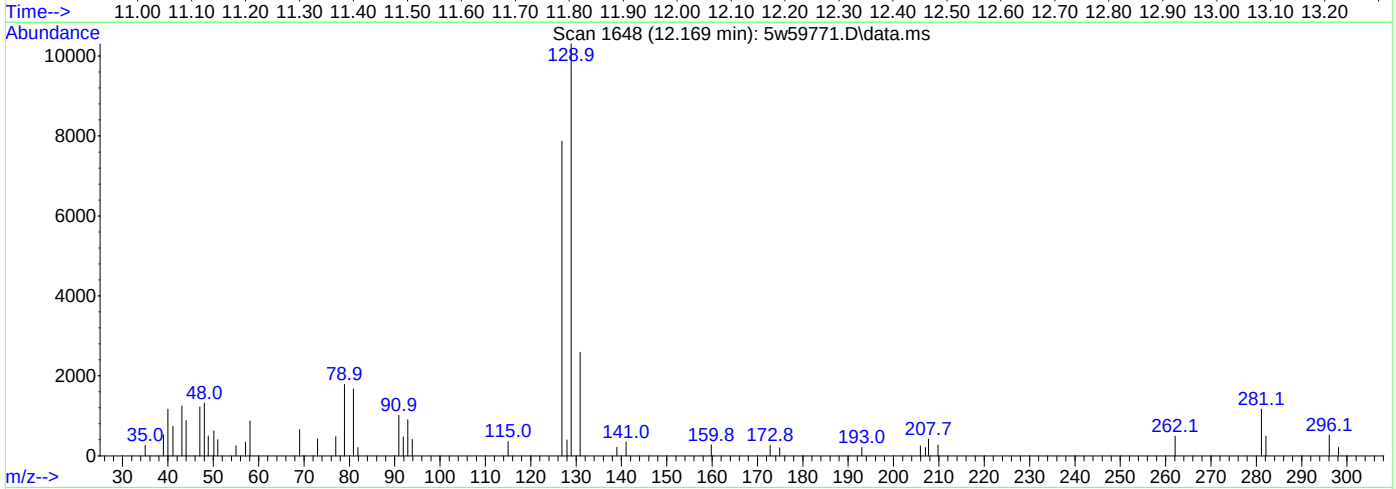
Ion	Exp%	Act%
58.10	100	100
43.10	167.20	158.80
100.10	16.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.16PPBV m

response 9038

Ion	Exp%	Act%
58.10	100	100
43.10	167.20	104.35#
100.10	16.90	0.00
0.00	0.00	0.00

5W59771.D edits: 2-HEXANONE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	472964	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2121089	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1052969	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	476464	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1418470	11.18	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.80%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	21944	0.27	PPBV		98
3) FREON 152A	3.445	65	16180	0.33	PPBV		98
4) CHLORODIFLUOROMETHANE	3.476	67	7935	0.34	PPBV		97
5) CHLOROTRIFLUOROETHENE	3.500	116	37384	0.32	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	74611	0.34	PPBV		99
7) PROPYLENE	3.500	41	19764	0.39	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	65023	0.39	PPBV		98
9) FREON 114	3.732	85	75616	0.38	PPBV		98
10) CHLOROMETHANE	3.665	52	8248	0.38	PPBV		89
11) VINYL CHLORIDE	3.818	62	25119	0.33	PPBV		95
12) 1,3-BUTADIENE	3.910	54	15745	0.37	PPBV		97
13) n-BUTANE	3.947	43	26092	0.38	PPBV	#	94
14) BROMOMETHANE	4.106	94	25633	0.33	PPBV		84
15) CHLOROETHANE	4.222	64	12538	0.39	PPBV		96
16) DICHLOROFLUOROMETHANE	4.289	67	56285	0.36	PPBV		97
17) ACETONITRILE	4.497	41	14827	0.37	PPBV		98
18) ACROLEIN	4.589	56	7542m	0.30	PPBV		
19) FREON 123	4.589	83	65470m	0.37	PPBV		
20) FREON 123A	4.632	117	39245	0.38	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.791	101	67375	0.36	PPBV		98
22) ISOPROPYL ALCOHOL	4.907	45	51138	0.37	PPBV		95
23) ACETONE	4.705	58	10630	0.38	PPBV		97
24) PENTANE	5.072	42	25466	0.38	PPBV		99
25) IODOMETHANE	5.250	142	79998	0.35	PPBV		100
26) 1,1-DICHLOROETHYLENE	5.317	96	27579	0.36	PPBV		96
27) CARBON DISULFIDE	5.672	76	72450	0.34	PPBV		99
28) ETHANOL	4.338	45	9883	0.39	PPBV		97
29) BROMOETHENE	4.479	106	27007	0.35	PPBV		98
30) ACRYLONITRILE	5.060	52	17143	0.37	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	22923	0.34	PPBV		98
32) 3-CHLOROPROPENE	5.525	76	12479	0.36	PPBV	#	88
33) FREON 113	5.641	151	45001	0.33	PPBV		99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	28115	0.35	PPBV		87
35) TERTIARY BUTYL ALCOHOL	5.439	59	48711	0.31	PPBV		96
36) METHYL TERTIARY BUTYL ...	6.516	73	72222	0.36	PPBV		95
37) TETRAHYDROFURAN	7.917	72	9128	0.29	PPBV	#	81
38) HEXANE	7.385	57	38643	0.34	PPBV		92
39) VINYL ACETATE	6.602	86	2461	0.19	PPBV	#	68
40) 1,1-DICHLOROETHANE	6.424	63	51689	0.36	PPBV		98
41) METHYL ETHYL KETONE	6.859	72	9022	0.28	PPBV		97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	29380	0.35	PPBV		94
43) DIISOPROPYL ETHER	7.415	59	10994	0.31	PPBV	#	84
44) ETHYL ACETATE	7.470	61	7547	0.29	PPBV	#	73
45) METHYL ACRYLATE	7.452	55	42153m	0.30	PPBV		
46) CHLOROFORM	7.477	83	58038	0.34	PPBV		88
47) 2,4-DIMETHYLPENTANE	8.223	57	46136	0.34	PPBV		99
48) 1,1,1-TRICHLOROETHANE	8.413	97	60433	0.34	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	65062	0.33	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	41098	0.34	PPBV		99
52)	BENZENE	8.859	78	76538	0.34	PPBV		99
53)	CYCLOHEXANE	9.110	84	30877	0.34	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	14658	0.32	PPBV		92
55)	TRICHLOROETHYLENE	9.893	95	37369	0.32	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	33377	0.35	PPBV		96
57)	DIBROMOMETHANE	9.636	174	39103	0.31	PPBV		97
58)	ETHYL ACRYLATE	9.740	55	44771	0.25	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	64038	0.31	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	127085	0.35	PPBV		99
61)	1,4-DIOXANE	9.973	88	17043	0.32	PPBV	#	1
62)	HEPTANE	10.187	43	45917	0.38	PPBV		94
63)	METHYL METHACRYLATE	10.144	69	24229	0.31	PPBV	#	60
64)	METHYL ISOBUTYL KETONE	10.854	58	20298	0.27	PPBV		89
65)	cis-1,3-DICHLOROPROPENE	10.762	75	50330	0.32	PPBV		85
66)	TOLUENE	11.728	92	53175	0.31	PPBV		97
67)	1,3-DICHLOROPROPANE	11.765	76	45275	0.32	PPBV	#	92
68)	trans-1,3-DICHLOROPROPENE	11.300	75	44098	0.30	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.459	83	29376	0.31	PPBV		99
71)	2-HEXANONE	12.077	58	24053	0.25	PPBV		89
72)	ETHYL METHACRYLATE	12.053	69	39133	0.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	42039	0.36	PPBV		97
74)	DIBROMOCHLOROMETHANE	12.157	129	68347	0.33	PPBV		100
75)	1,2-DIBROMOETHANE	12.401	107	57560	0.36	PPBV		99
76)	OCTANE	12.750	43	57196	0.37	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	44229	0.34	PPBV		99
78)	CHLOROBENZENE	13.588	112	76482	0.36	PPBV		99
79)	ETHYLBENZENE	13.992	91	119442	0.37	PPBV		98
80)	m,p-XYLENE	14.175	106	91065	0.70	PPBV		98
81)	o-XYLENE	14.683	106	43793	0.35	PPBV		94
82)	STYRENE	14.585	104	68779	0.36	PPBV		91
83)	NONANE	14.934	43	61419	0.39	PPBV		97
84)	BROMOFORM	14.255	173	65517	0.31	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	78542	0.37	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.830	75	59513	0.37	PPBV		94
88)	ISOPROPYLBENZENE	15.301	105	132085	0.35	PPBV		99
89)	BROMOBENZENE	15.381	77	64086	0.34	PPBV		99
90)	2-CHLOROTOLUENE	15.778	126	34084	0.33	PPBV		96
91)	n-PROPYLBENZENE	15.821	120	35058	0.34	PPBV		100
92)	4-ETHYLTOLUENE	15.968	105	126699	0.35	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	115870	0.38	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.206	118	51966	0.31	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	23128	0.35	PPBV		93
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	112549	0.37	PPBV		98
97)	m-DICHLOROBENZENE	16.586	146	80323	0.33	PPBV		99
98)	BENZYL CHLORIDE	16.580	91	94193	0.31	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	89982	0.38	PPBV		99
100)	sec-BUTYLBENZENE	16.702	134	28746	0.34	PPBV	#	87
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	117540	0.37	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	34620	0.35	PPBV		94
103)	o-DICHLOROBENZENE	16.983	146	81336	0.35	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	31100	0.32	PPBV	#	83
105)	HEXACHLOROETHANE	17.607	117	56860	0.36	PPBV		98
106)	HEXACHLOROBUTADIENE	18.966	225	78824	0.35	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.892	180	74442	0.33	PPBV		99
108)	NAPHTHALENE	18.672	128	165689	0.33	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	163703	0.37	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

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

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

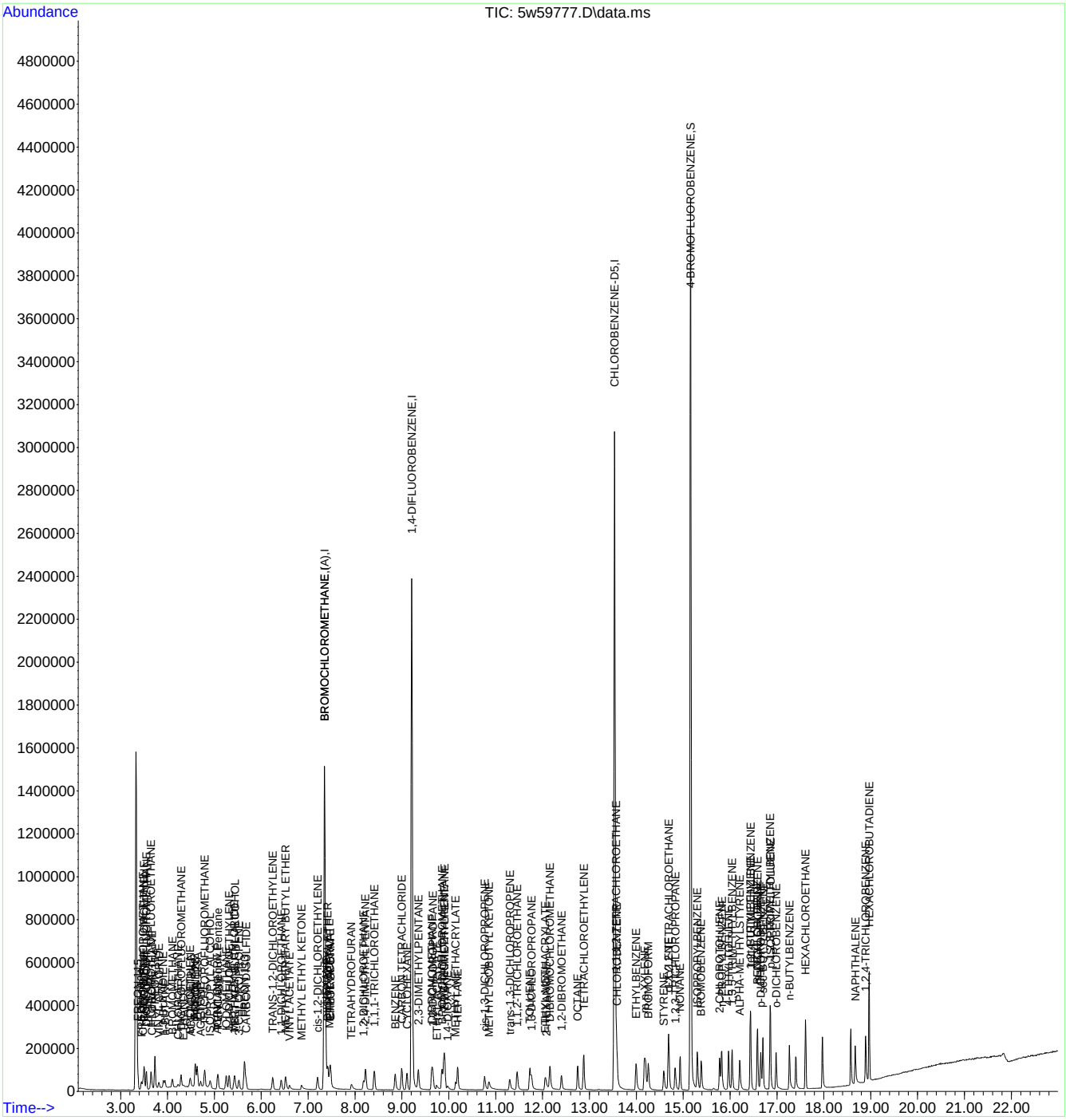
7.7.4

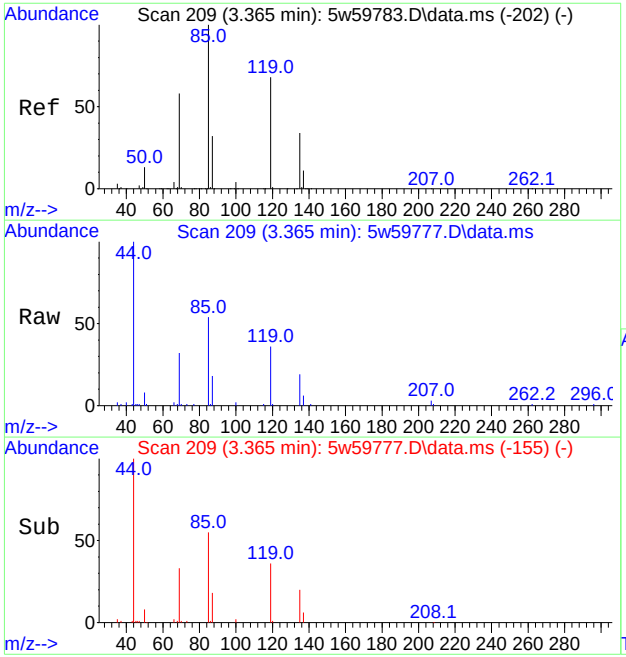
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

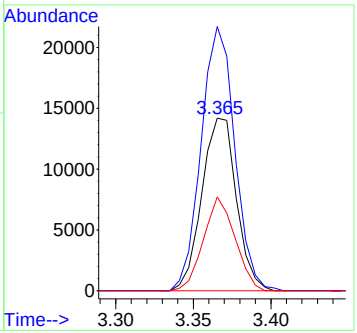


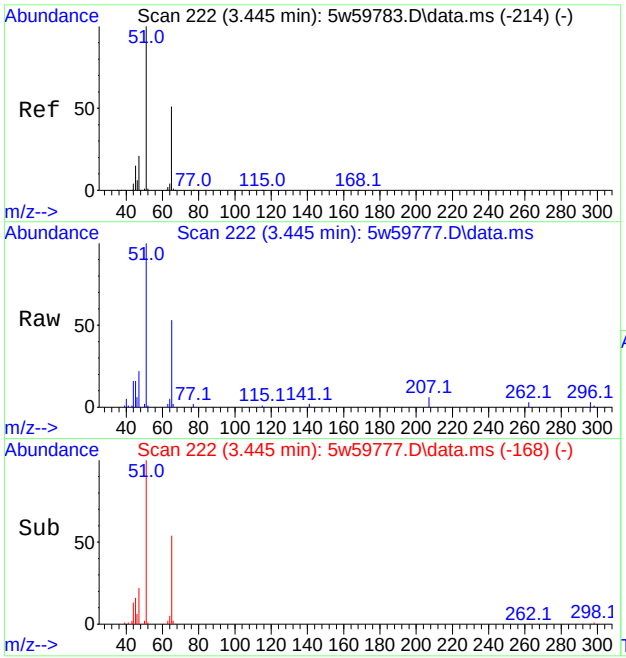


#2
FREON 115
Concen: 0.27 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:119 Resp: 21944

Ion	Ratio	Lower	Upper
119	100		
85	148.6	116.2	176.2
135	49.6	20.6	80.6

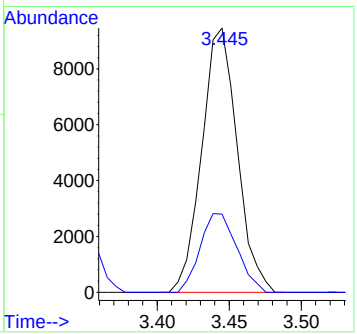


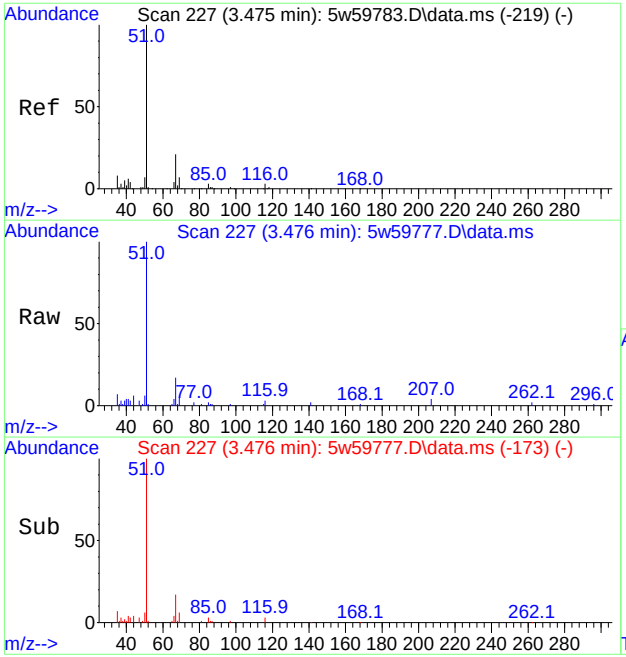


#3
FREON 152A
Concen: 0.33 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 16180

Ion	Ratio	Lower	Upper
65	100		
45	31.0	0.0	60.0

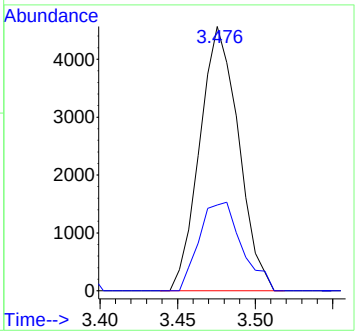


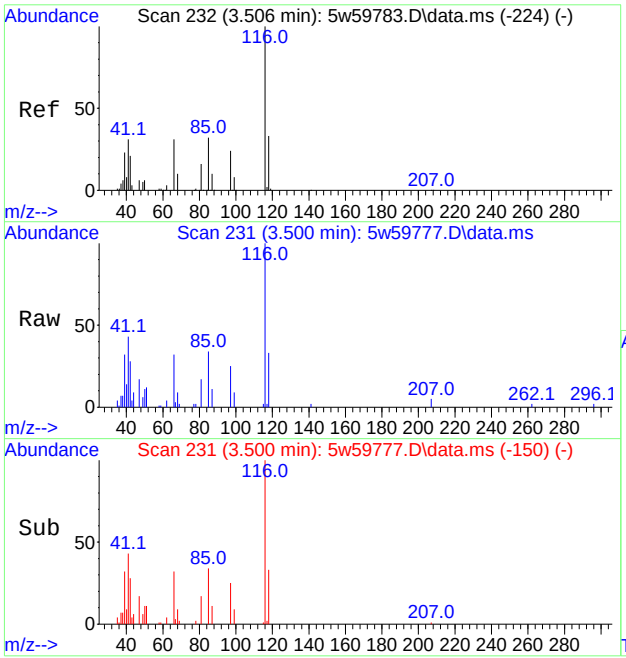


#4
CHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 7935

Ion	Ratio	Lower	Upper
67	100		
69	32.4	1.0	61.0

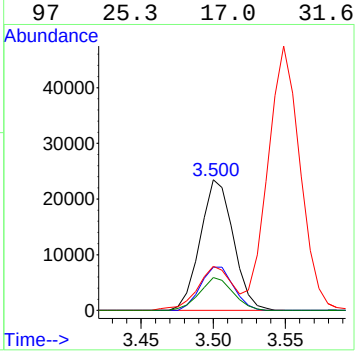


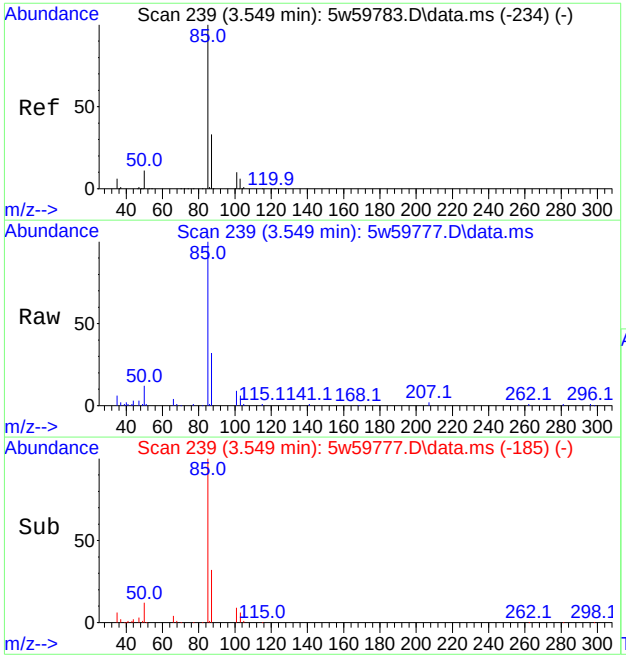


#5
CHLOROTRIFLUOROETHENE
Concen: 0.32 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:116 Resp: 37384

Ion	Ratio	Lower	Upper
116	100		
118	33.2	22.9	42.5
85	35.1	23.7	44.1
97	25.3	17.0	31.6

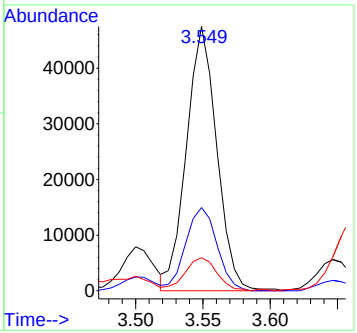


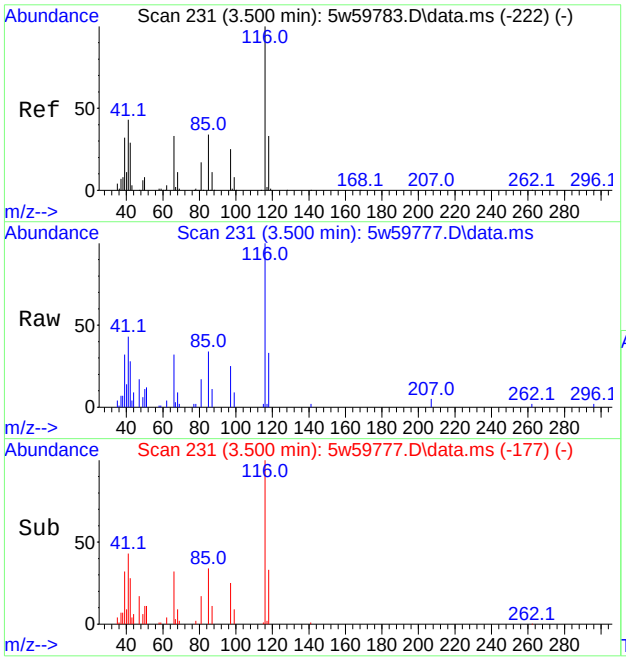


#6
DICHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 74611

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	13.2	0.0	41.7

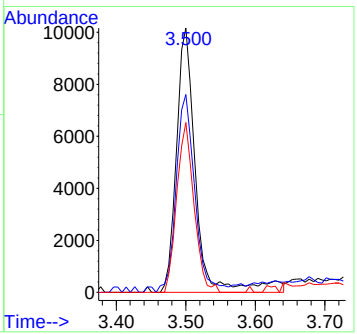


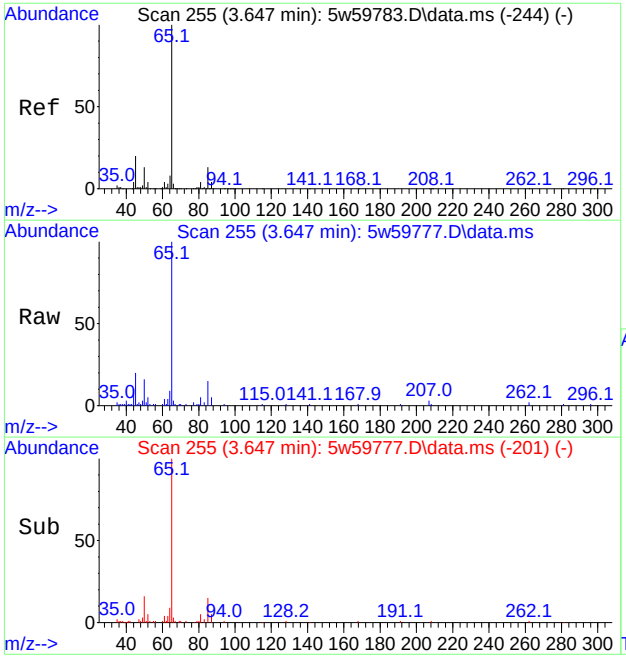


#7
PROPYLENE
Concen: 0.39 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 19764

Ion	Ratio	Lower	Upper
41	100		
39	87.7	45.1	105.1
42	56.8	36.3	96.3

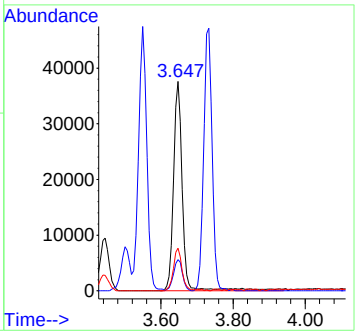


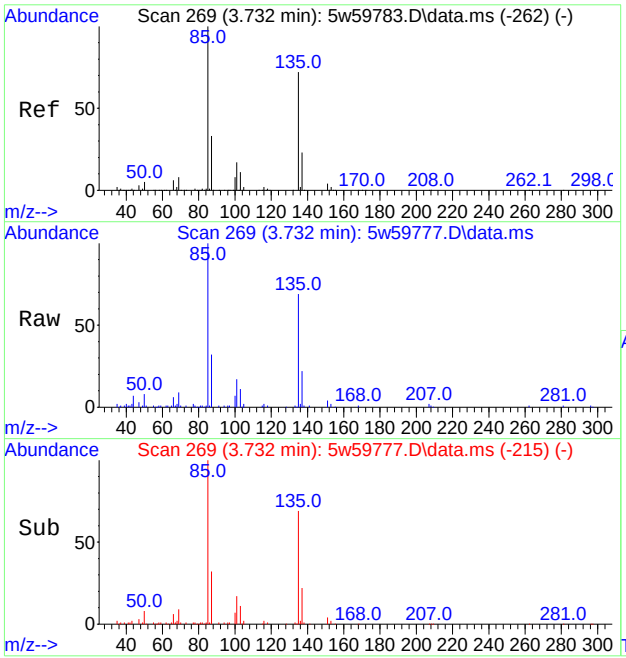


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.39 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 65023

Ion	Ratio	Lower	Upper
65	100		
85	15.0	11.5	21.3
45	20.1	14.0	26.0

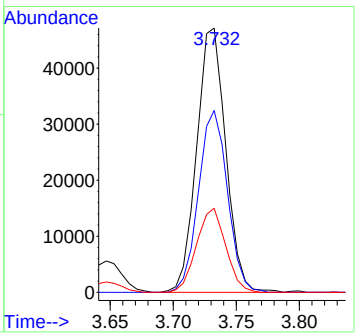


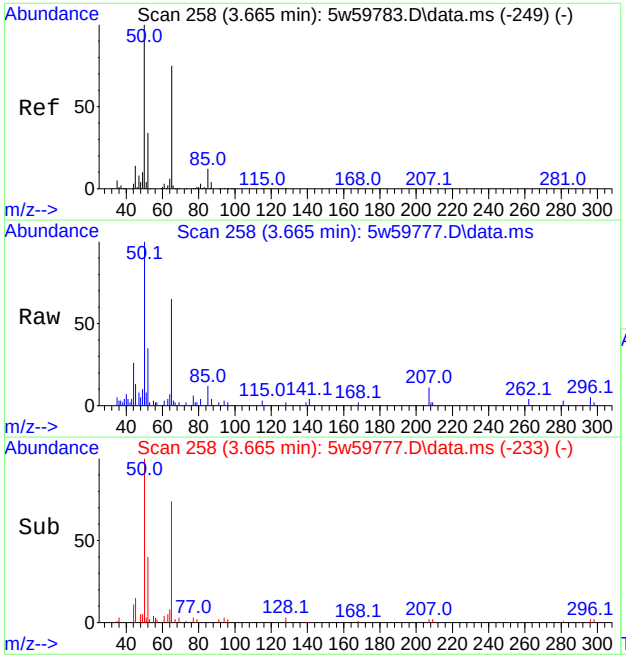


#9
FREON 114
Concen: 0.38 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 75616

Ion	Ratio	Lower	Upper
85	100		
135	68.6	40.5	100.5
87	31.9	3.0	63.0

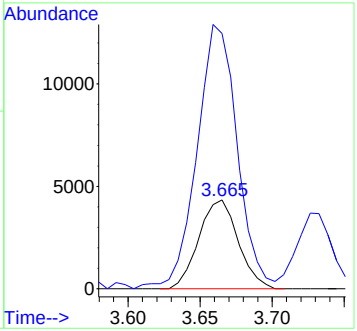


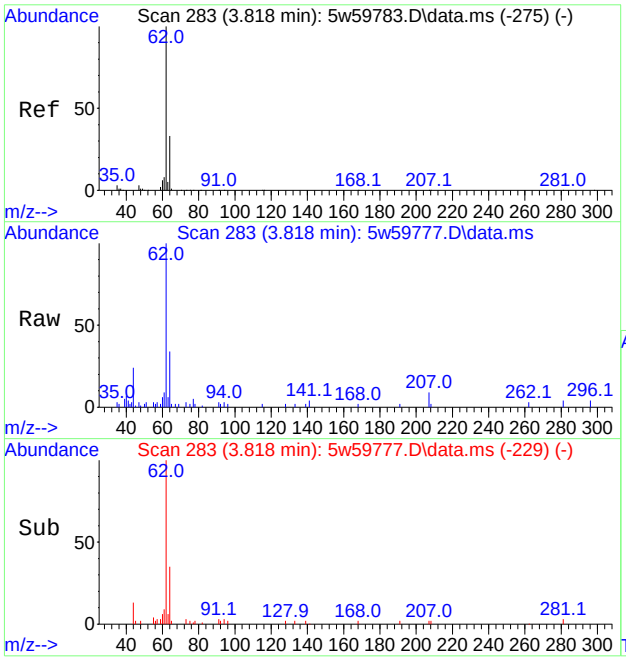


#10
CHLOROMETHANE
Concen: 0.38 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 8248

Ion	Ratio	Lower	Upper
52	100		
50	276.5	267.9	327.9

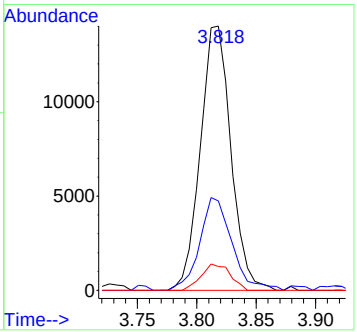


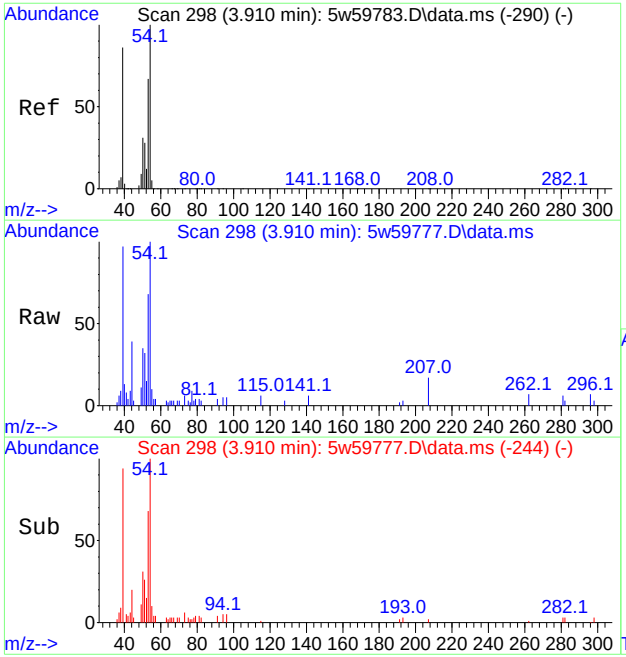


#11
VINYL CHLORIDE
Concen: 0.33 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 25119

Ion	Ratio	Lower	Upper
62	100		
64	36.8	3.6	63.6
61	9.4	0.0	38.2

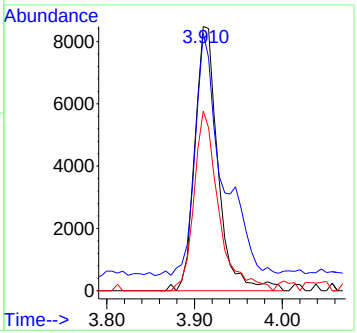


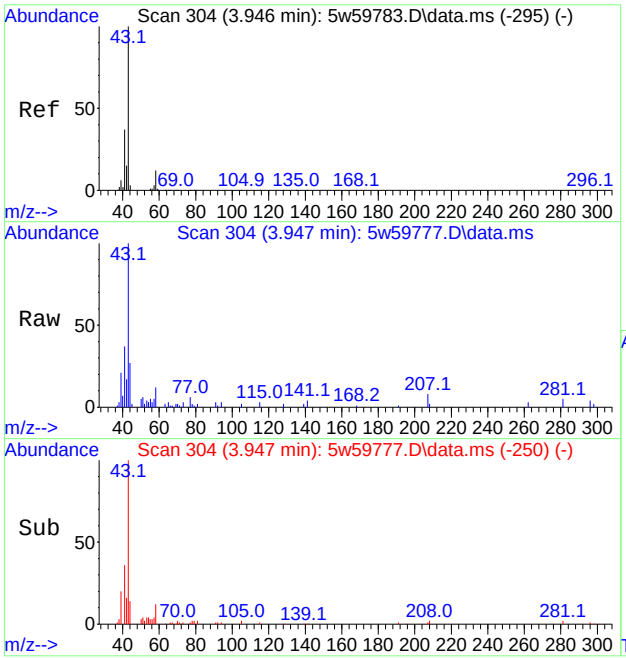


#12
1,3-BUTADIENE
Concen: 0.37 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 54 Resp: 15745

Ion	Ratio	Lower	Upper
54	100		
39	115.9	82.0	142.0
53	71.6	40.2	100.2

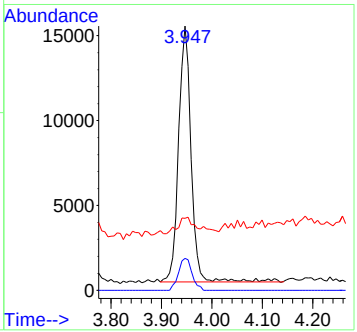


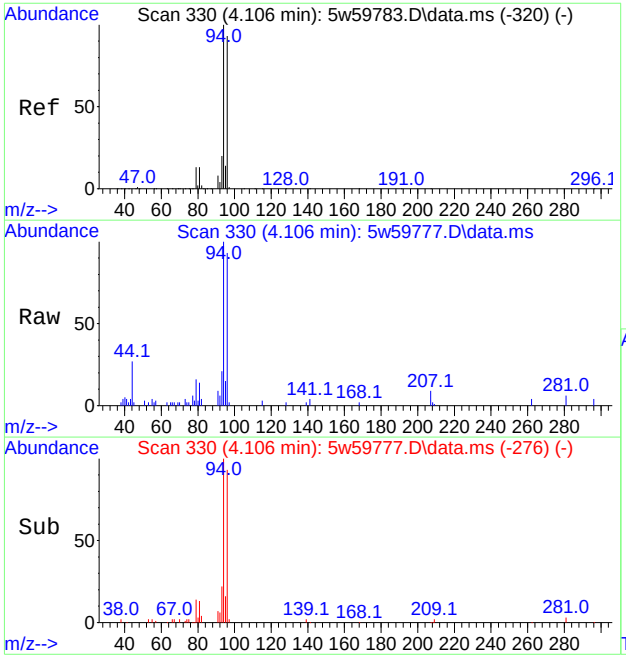


#13
n-BUTANE
Concen: 0.38 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 26092

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	0.0	0.0	34.9

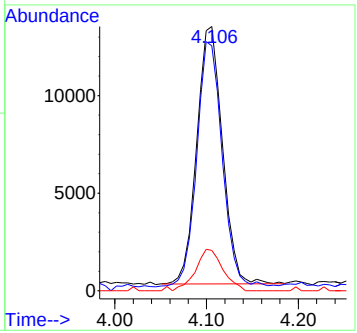


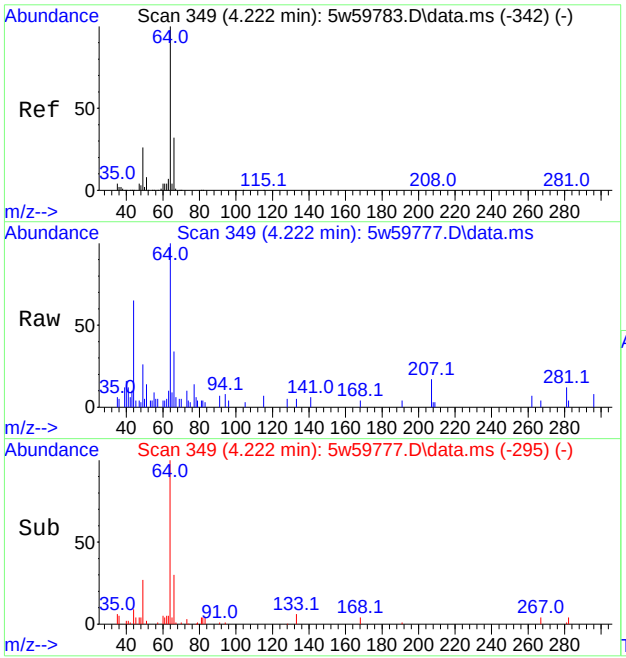


#14
BROMOMETHANE
Concen: 0.33 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 94 Resp: 25633

Ion	Ratio	Lower	Upper
94	100		
96	111.8	65.3	125.3
95	17.3	0.0	44.1

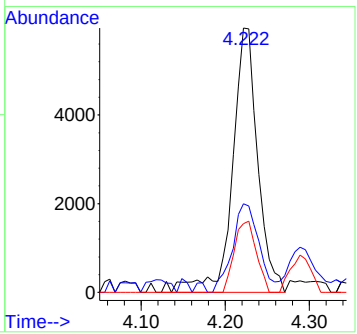


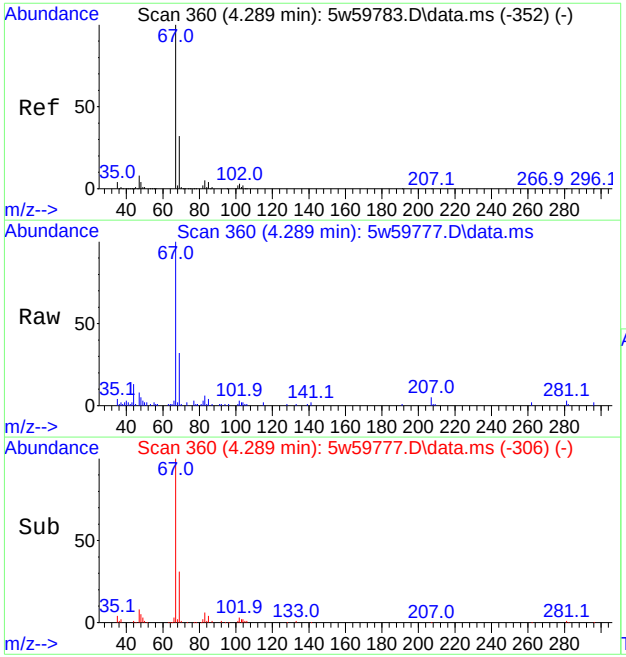


#15
CHLOROETHANE
Concen: 0.39 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 64 Resp: 12538

Ion	Ratio	Lower	Upper
64	100		
66	34.9	3.1	63.1
49	23.3	0.0	55.3

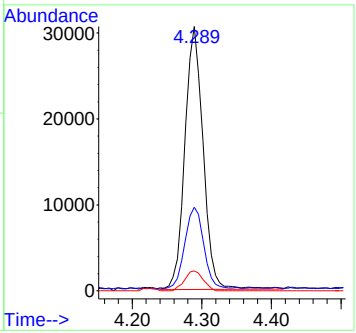


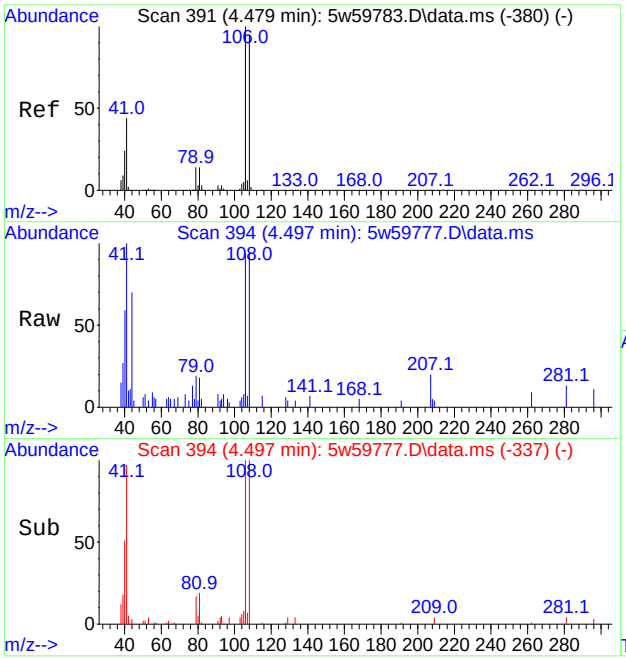


#16
DICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 56285

Ion	Ratio	Lower	Upper
67	100		
69	34.4	22.7	42.3
47	7.6	5.6	10.4

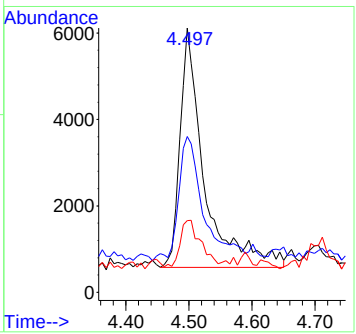


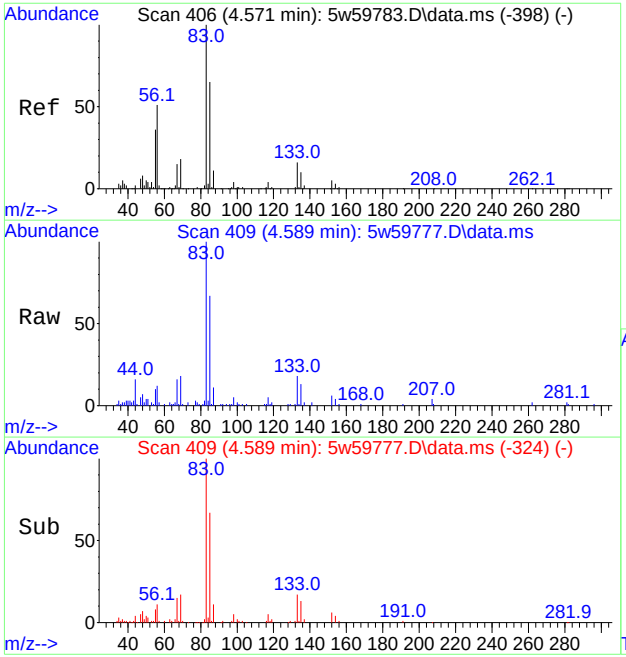


#17
ACETONITRILE
Concen: 0.37 PPBV
RT: 4.497 min Scan# 394
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 14827

Ion	Ratio	Lower	Upper
41	100		
40	55.5	37.9	70.5
39	17.7	13.4	24.8

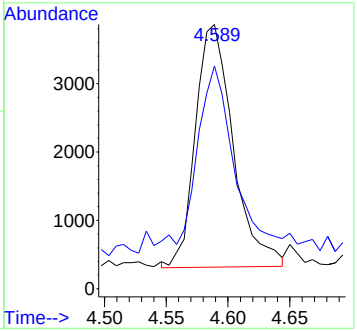


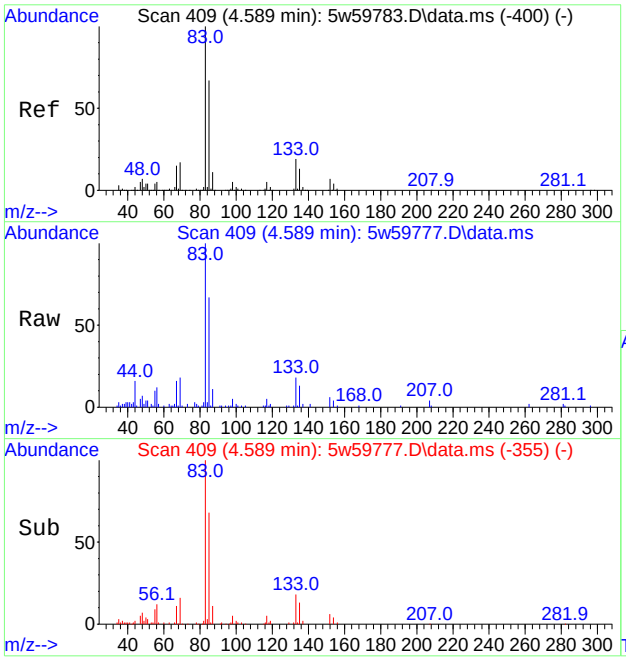


#18
ACROLEIN
Concen: 0.30 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 56 Resp: 7542

Ion	Ratio	Lower	Upper
56	100		
55	78.8	46.6	86.6

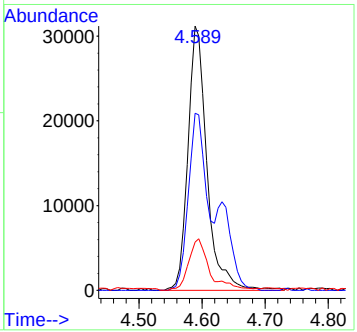


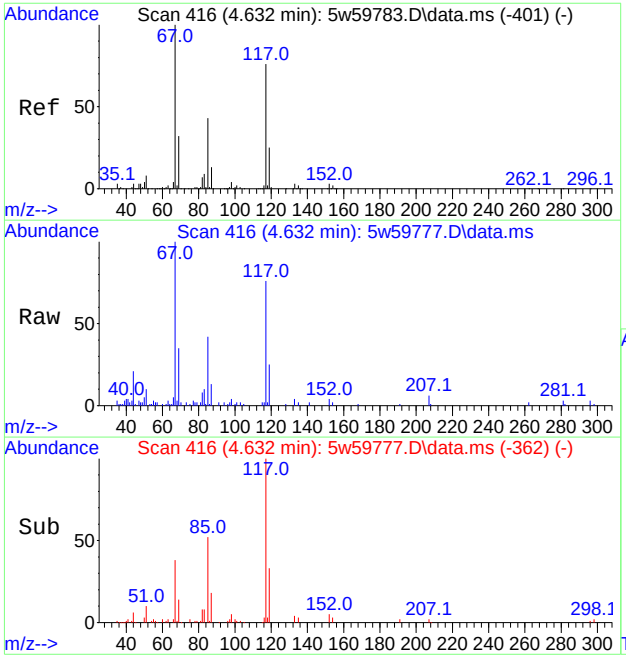


#19
FREON 123
Concen: 0.37 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 65470

Ion	Ratio	Lower	Upper
83	100		
85	65.8	34.0	94.0
133	22.6	0.0	50.7

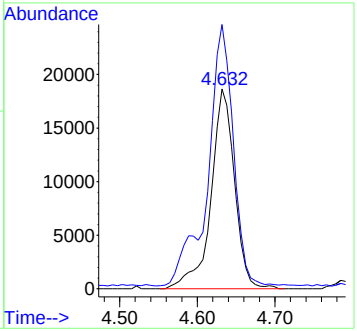


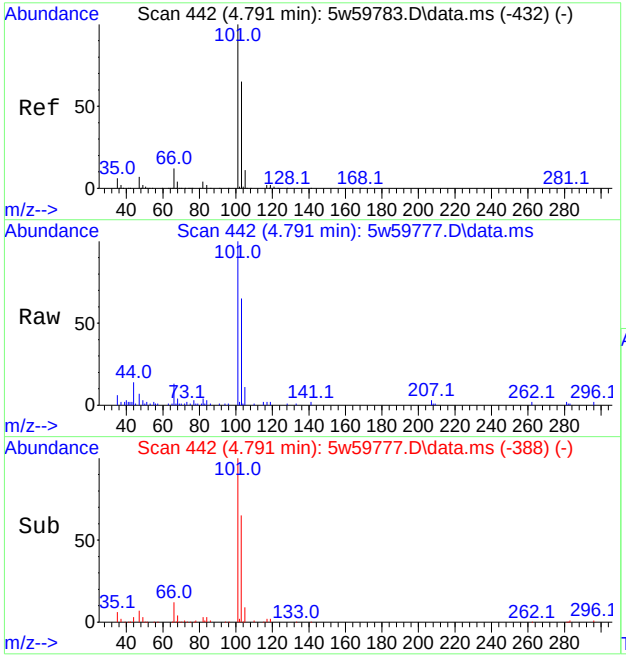


#20
FREON 123A
Concen: 0.38 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 39245

Ion	Ratio	Lower	Upper
117	100		
67	143.3	114.6	174.6

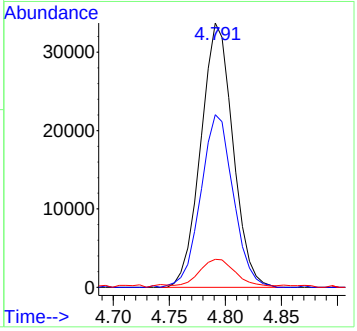


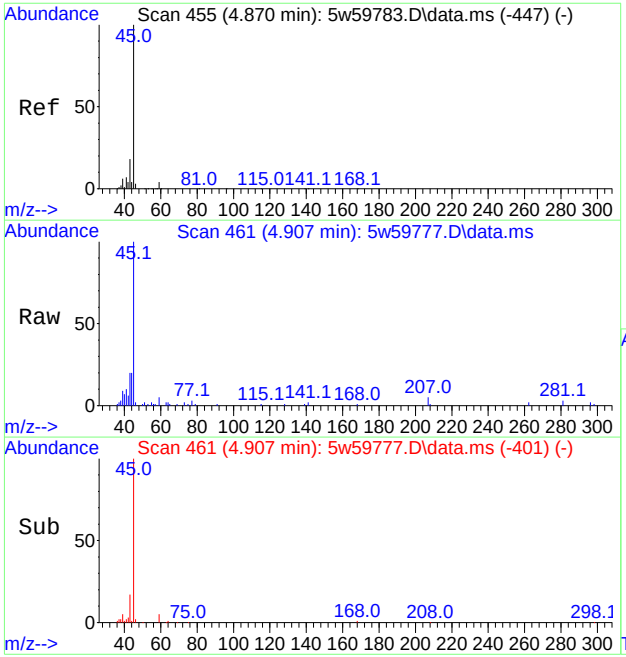


#21
TRICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:101 Resp: 67375

Ion	Ratio	Lower	Upper
101	100		
103	66.3	35.0	95.0
105	12.9	0.0	40.7

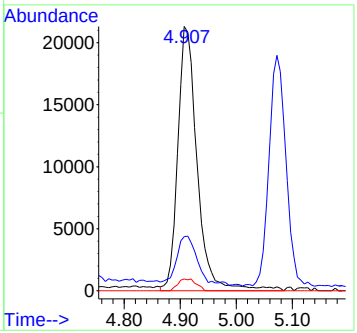


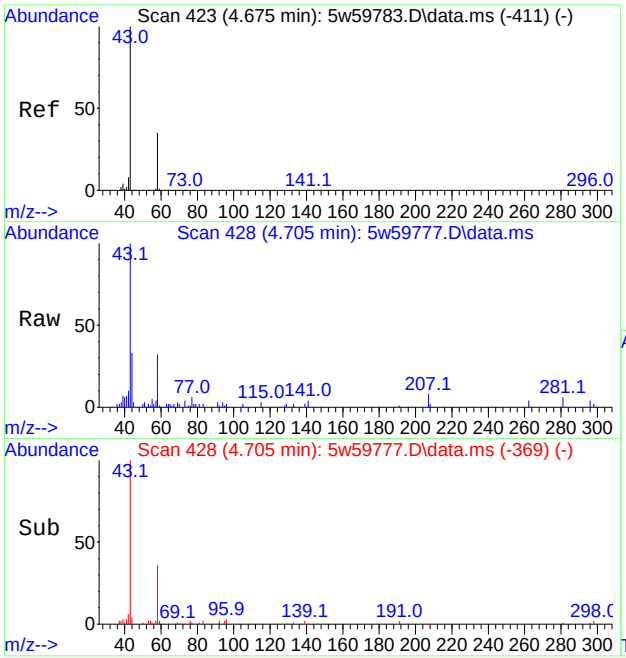


#22
ISOPROPYL ALCOHOL
Concen: 0.37 PPBV
RT: 4.907 min Scan# 461
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 51138

Ion	Ratio	Lower	Upper
45	100		
43	20.4	0.0	47.8
59	4.5	0.0	34.1

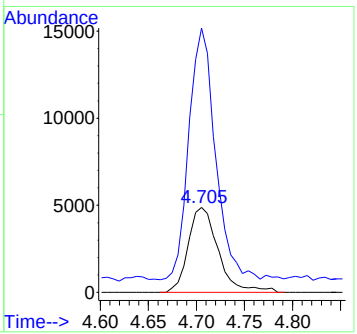


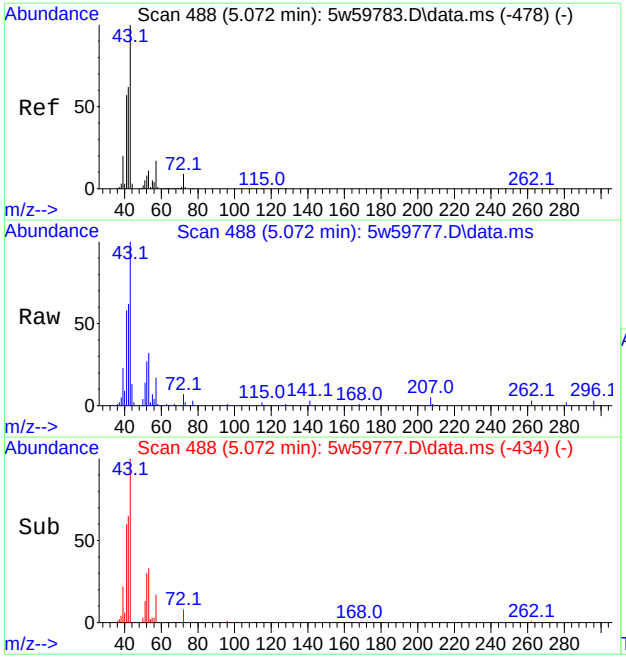


#23
ACETONE
Concen: 0.38 PPBV
RT: 4.705 min Scan# 428
Delta R.T. 0.030 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 10630

Ion	Ratio	Lower	Upper
58	100		
43	277.1	252.3	312.3

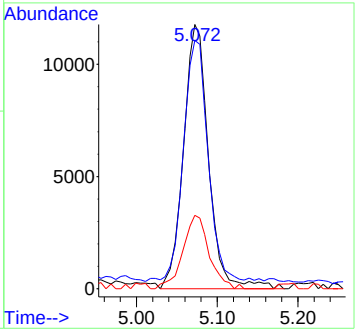


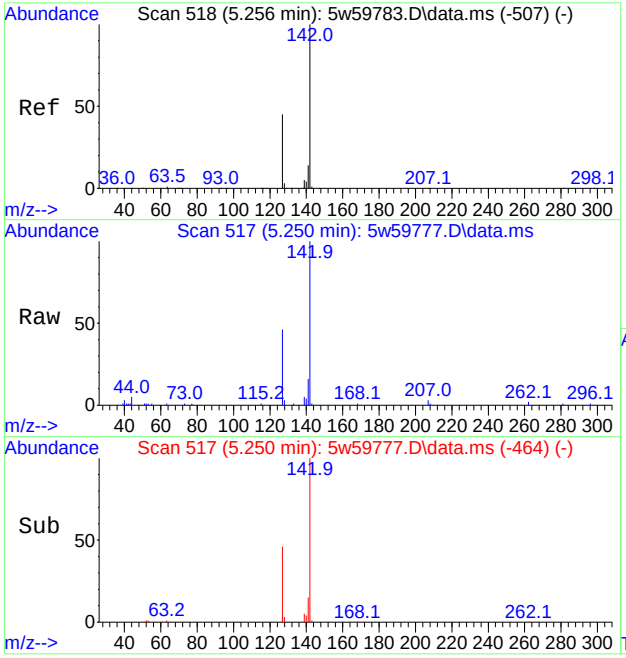


#24
PENTANE
Concen: 0.38 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 42 Resp: 25466

Ion	Ratio	Lower	Upper
42	100		
41	92.5	62.3	122.3
57	29.1	0.0	57.7

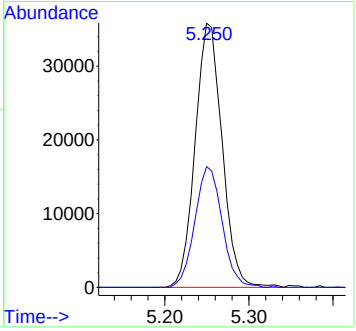


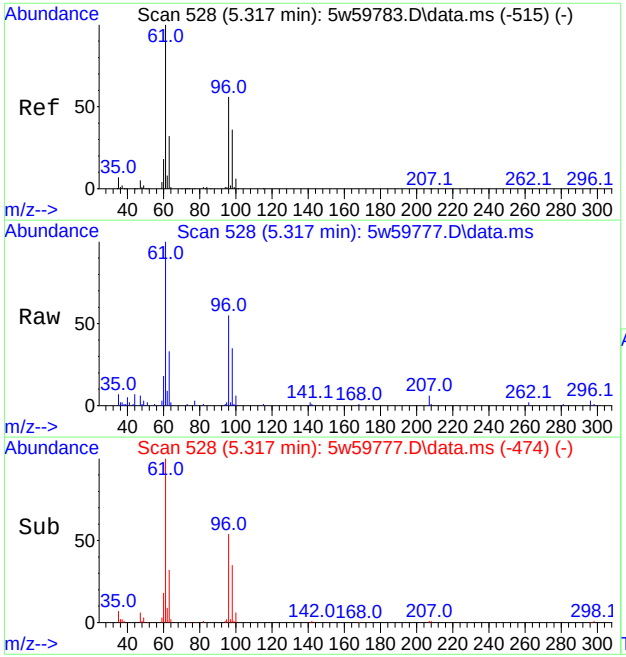


#25
IODOMETHANE
Concen: 0.35 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:142 Resp: 79998

Ion	Ratio	Lower	Upper
142	100		
127	46.1	16.0	76.0

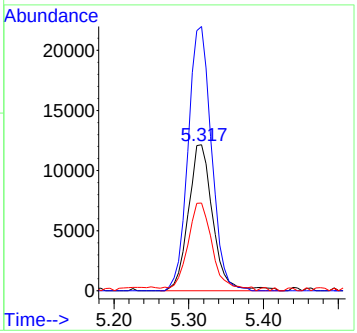


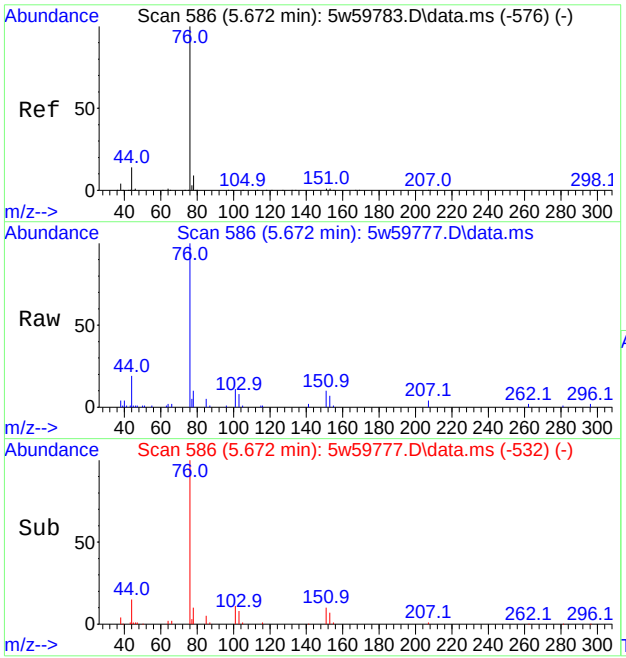


#26
1,1-DICHLOROETHYLENE
Concen: 0.36 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 27579

Ion	Ratio	Lower	Upper
96	100		
61	173.2	148.5	208.5
63	60.6	27.4	87.4

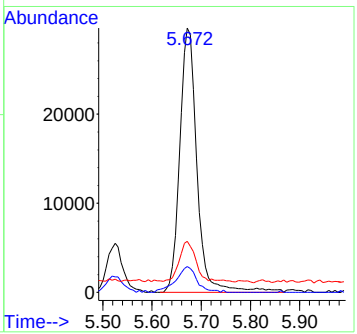


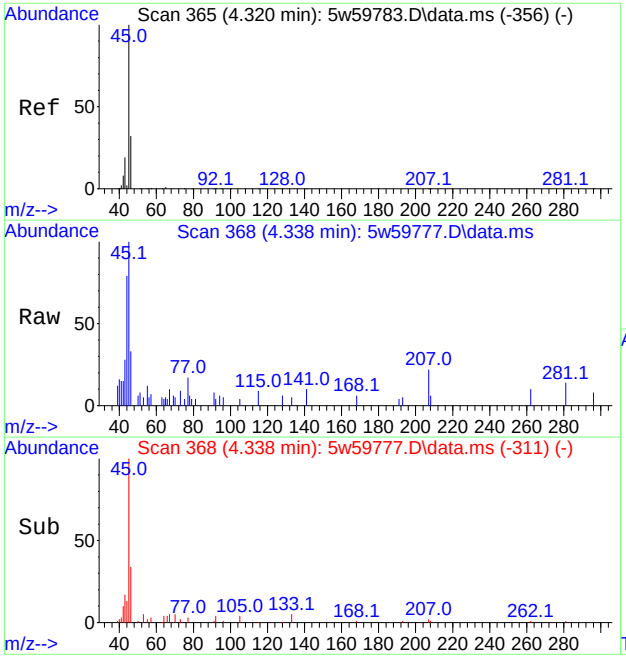


#27
CARBON DISULFIDE
Concen: 0.34 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 72450

Ion	Ratio	Lower	Upper
76	100		
78	11.8	0.0	41.5
44	15.1	0.0	44.6

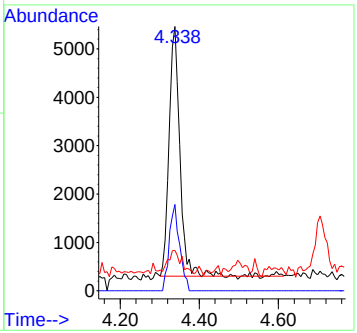


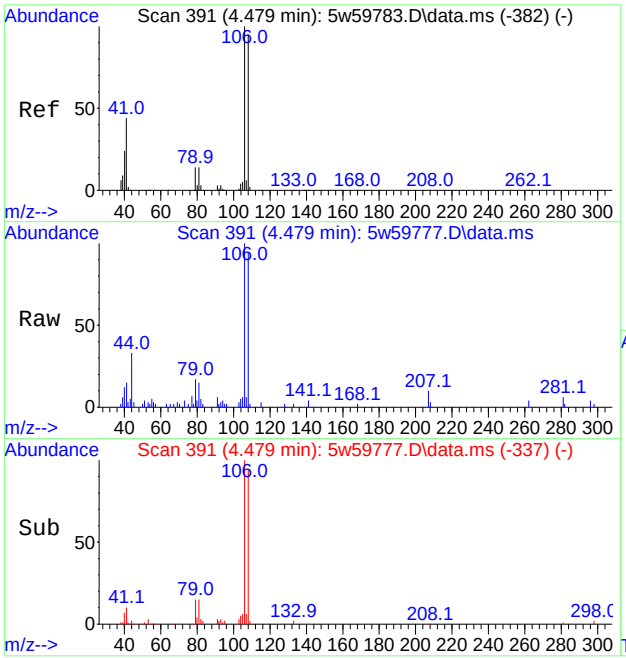


#28
ETHANOL
Concen: 0.39 PPBV
RT: 4.338 min Scan# 368
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 9883

Ion	Ratio	Lower	Upper
45	100		
46	32.7	2.0	62.0
42	12.7	0.0	38.5

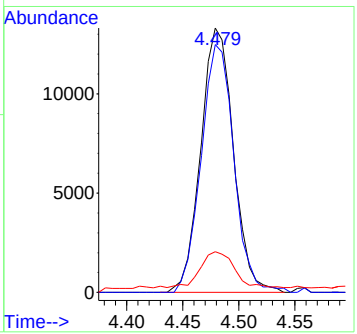


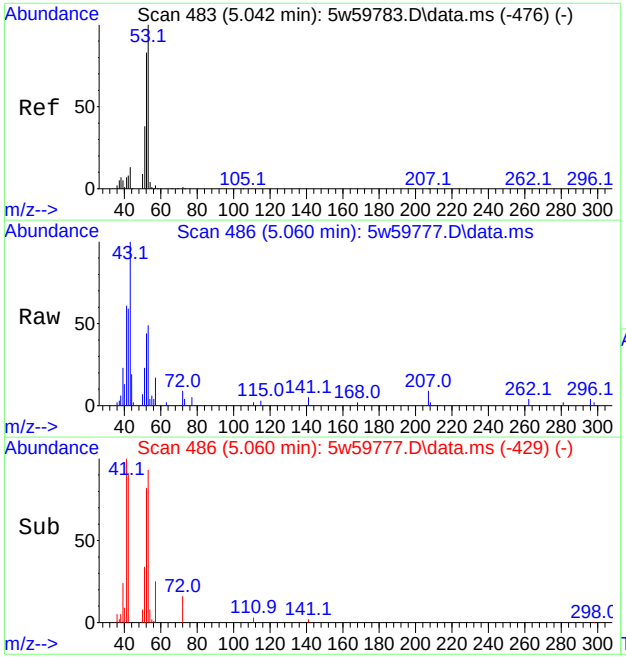


#29
BROMOETHENE
Concen: 0.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 27007

Ion	Ratio	Lower	Upper
106	100		
108	93.9	65.6	125.6
81	13.1	0.0	43.9

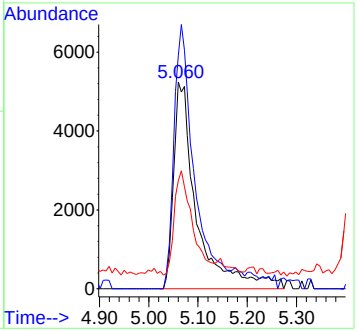


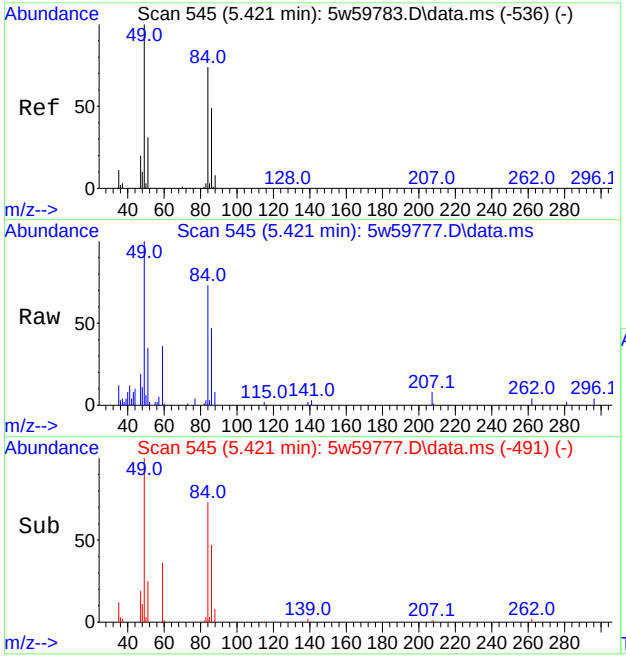


#30
ACRYLONITRILE
Concen: 0.37 PPBV
RT: 5.060 min Scan# 486
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 17143

Ion	Ratio	Lower	Upper
52	100		
53	123.5	85.8	159.4
51	43.9	32.3	60.1

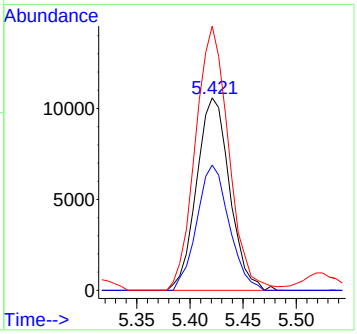


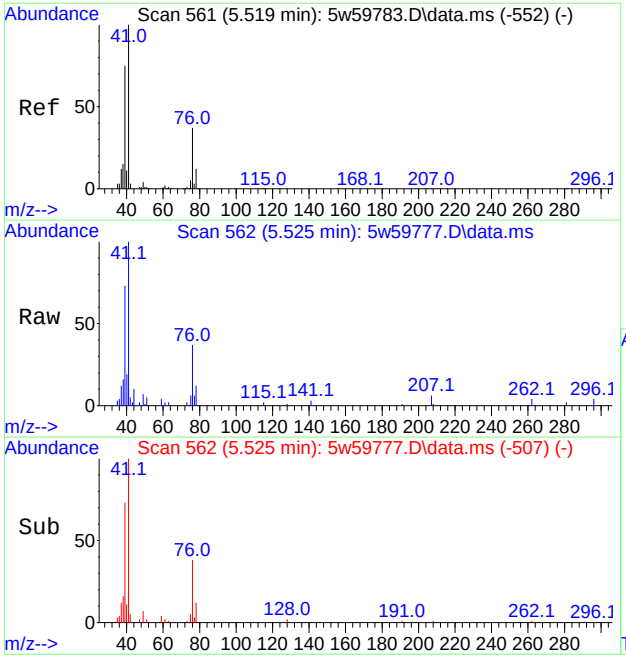


#31
METHYLENE CHLORIDE
Concen: 0.34 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 22923

Ion	Ratio	Lower	Upper
84	100		
86	63.7	35.2	95.2
49	138.4	105.3	165.3

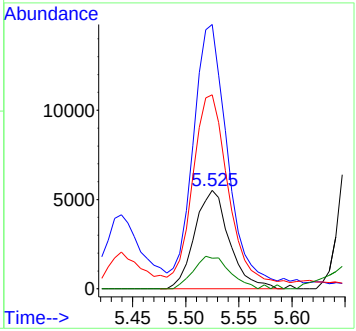


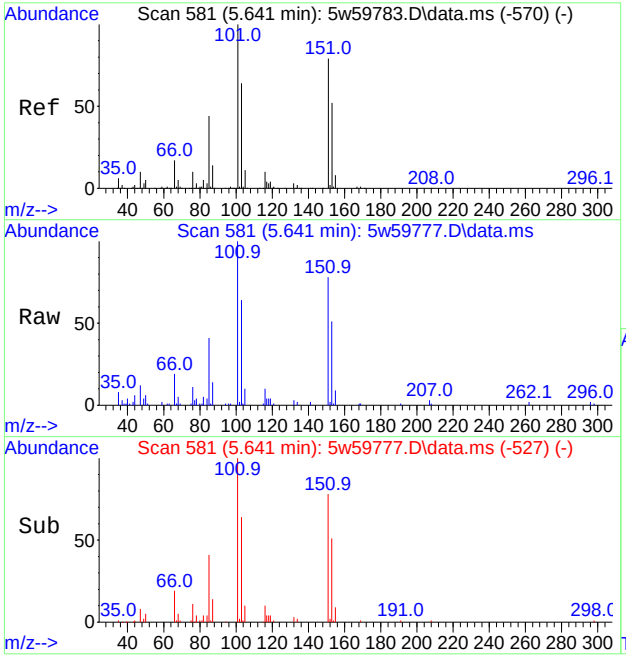


#32
3-CHLOROPROPENE
Concen: 0.36 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 12479

Ion	Ratio	Lower	Upper
76	100		
41	307.5	240.8	300.8#
39	198.9	173.6	233.6
78	34.4	2.8	62.8

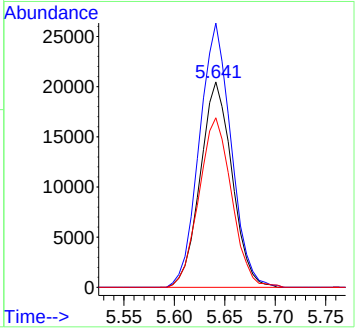


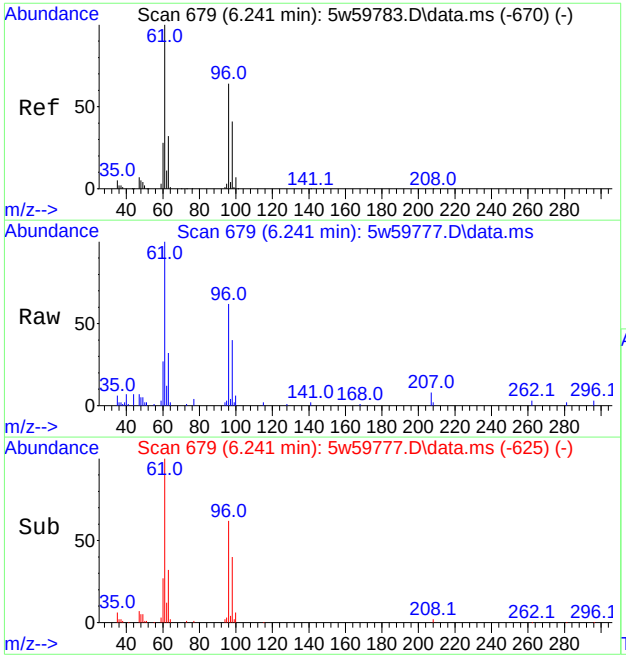


#33
FREON 113
Concen: 0.33 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:151 Resp: 45001

Ion	Ratio	Lower	Upper
151	100		
101	128.1	97.5	157.5
103	84.5	52.5	112.5

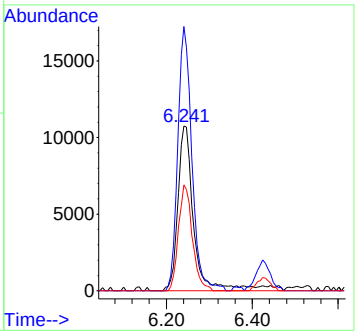


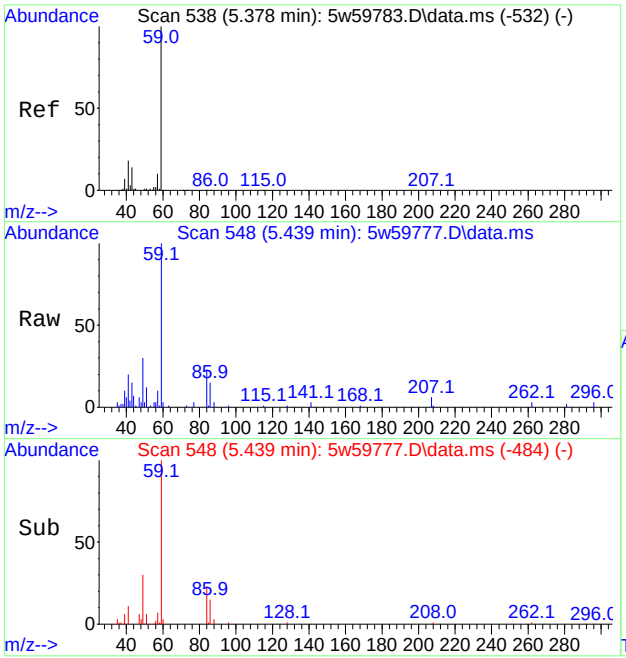


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 28115

Ion	Ratio	Lower	Upper
96	100		
61	139.5	126.4	186.4
98	55.2	34.1	94.1

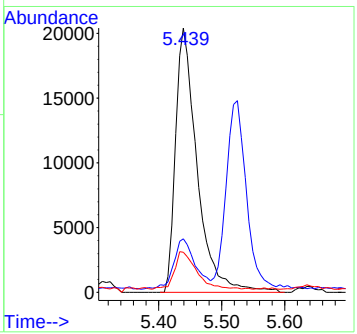


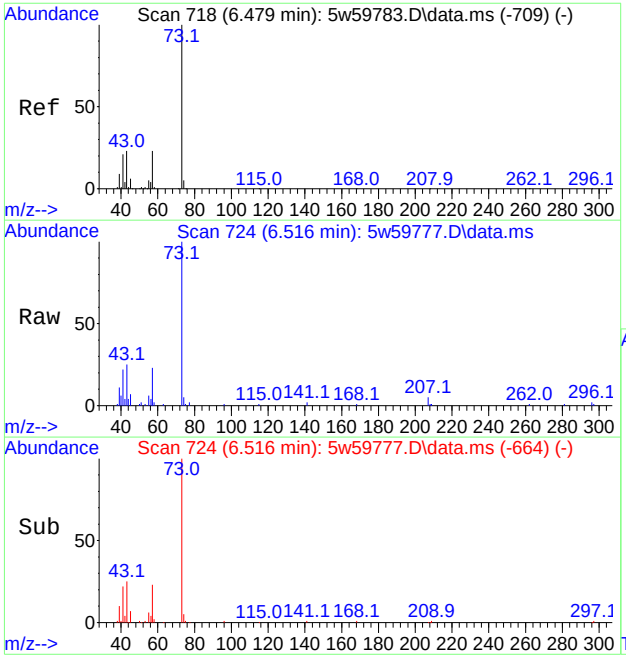


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.31 PPBV
RT: 5.439 min Scan# 548
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 48711

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	17.9	0.0	44.1

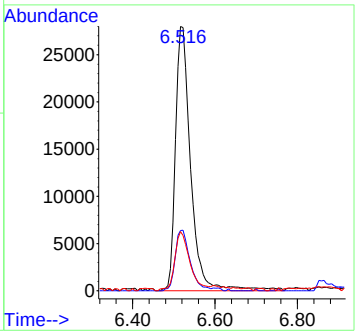


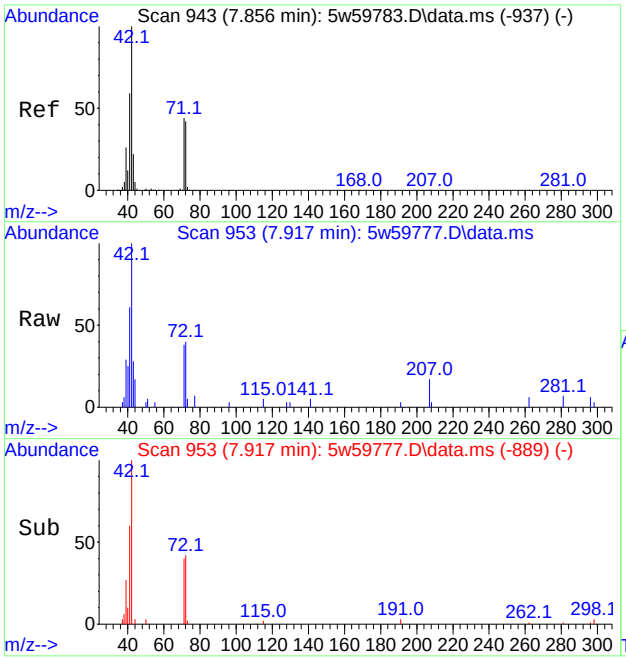


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.36 PPBV
RT: 6.516 min Scan# 724
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 73 Resp: 72222

Ion	Ratio	Lower	Upper
73	100		
57	22.9	0.0	53.1
41	25.0	0.0	50.6

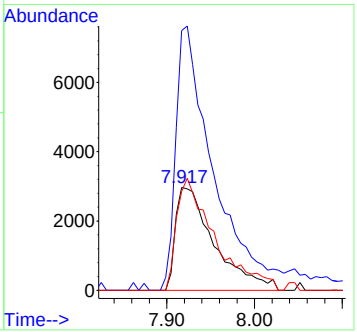


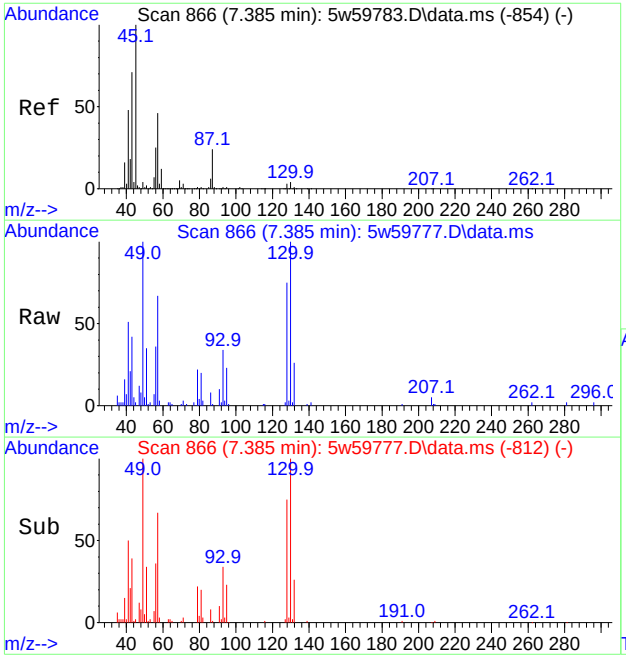


#37
TETRAHYDROFURAN
Concen: 0.29 PPBV
RT: 7.917 min Scan# 953
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9128

Ion	Ratio	Lower	Upper
72	100		
42	273.5	202.4	262.4#
71	107.4	71.1	131.1

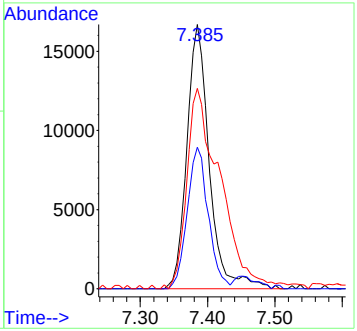


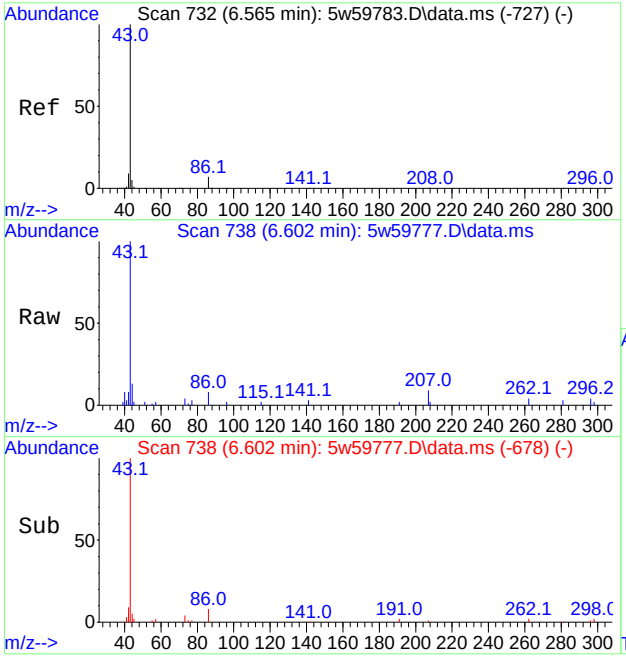


#38
HEXANE
Concen: 0.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 38643

Ion	Ratio	Lower	Upper
57	100		
56	50.3	25.9	85.9
41	113.5	74.7	134.7

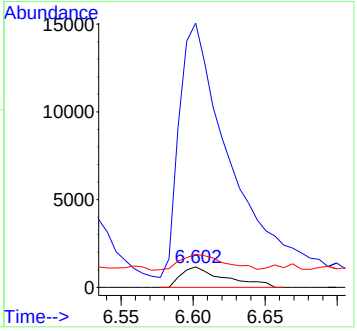


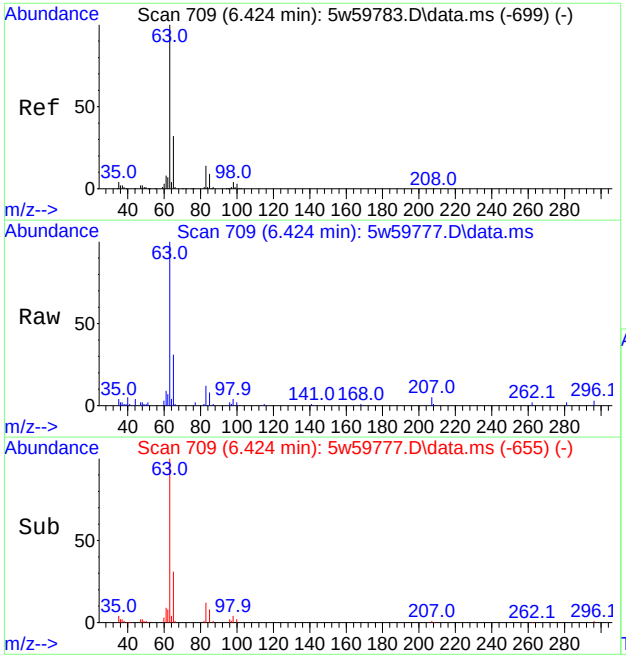


#39
VINYL ACETATE
Concen: 0.19 PPBV
RT: 6.602 min Scan# 738
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 86 Resp: 2461

Ion	Ratio	Lower	Upper
86	100		
43	1595.3	1379.7	1439.7#
44	82.6	36.9	96.9

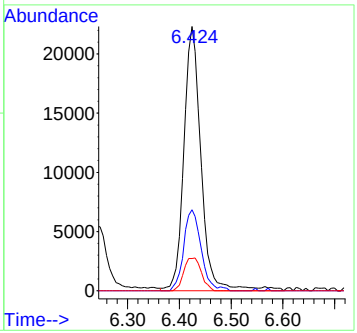


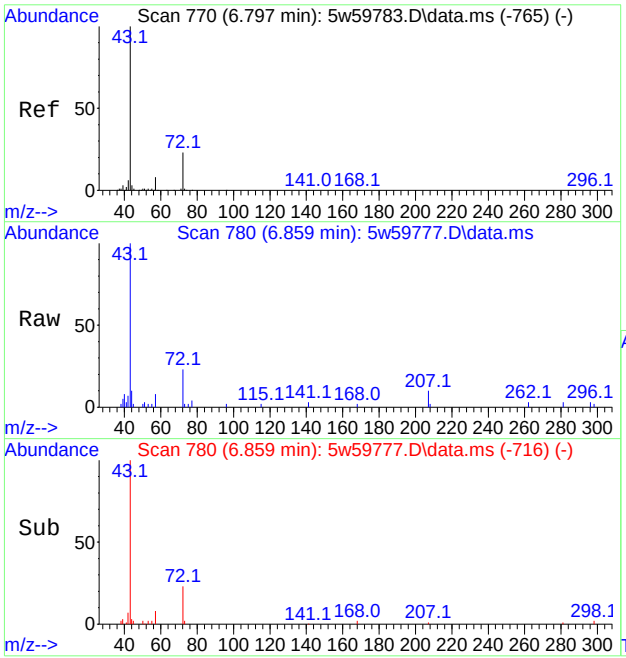


#40
1,1-DICHLOROETHANE
Concen: 0.36 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 51689

Ion	Ratio	Lower	Upper
63	100		
65	31.0	1.7	61.7
83	12.6	0.0	43.5

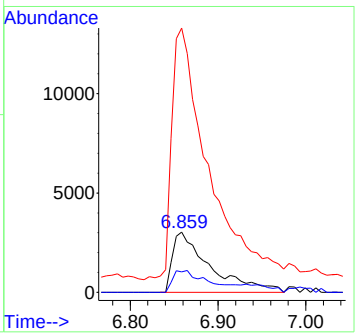


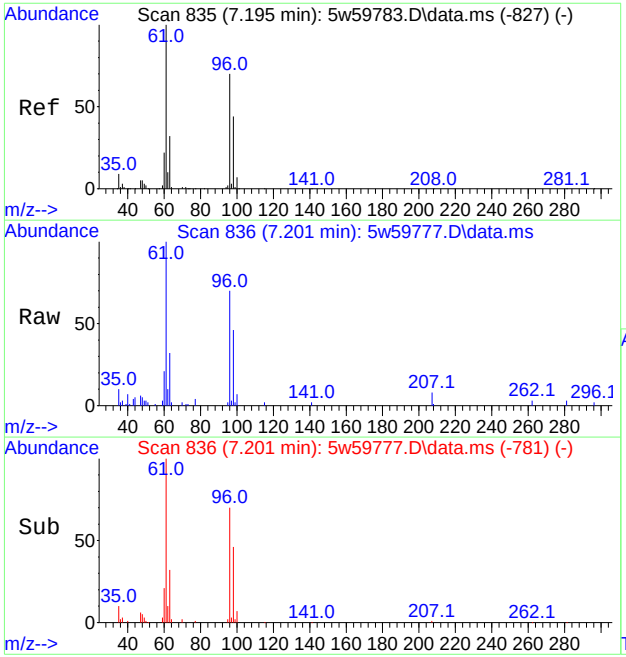


#41
METHYL ETHYL KETONE
Concen: 0.28 PPBV
RT: 6.859 min Scan# 780
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9022

Ion	Ratio	Lower	Upper
72	100		
57	34.2	4.8	64.8
43	439.2	415.9	475.9

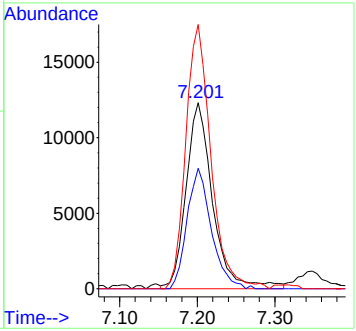


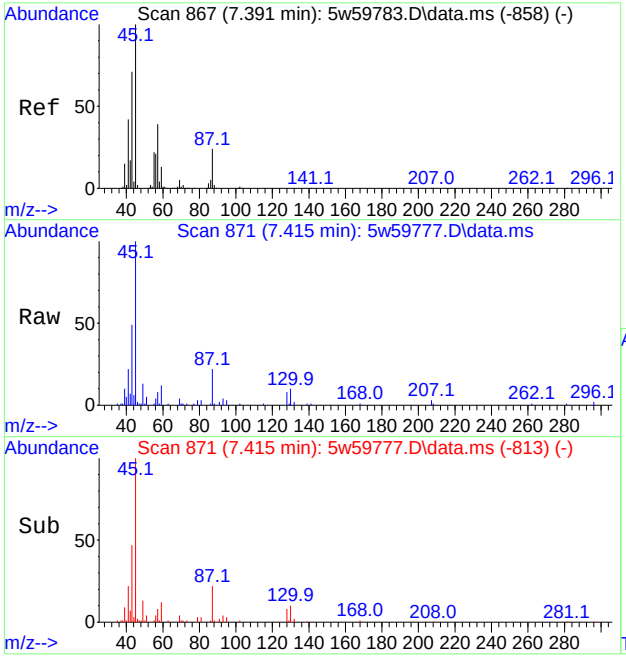


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 29380

Ion	Ratio	Lower	Upper
96	100		
98	59.0	34.0	94.0
61	133.9	111.5	171.5

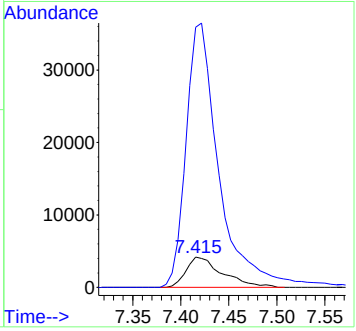


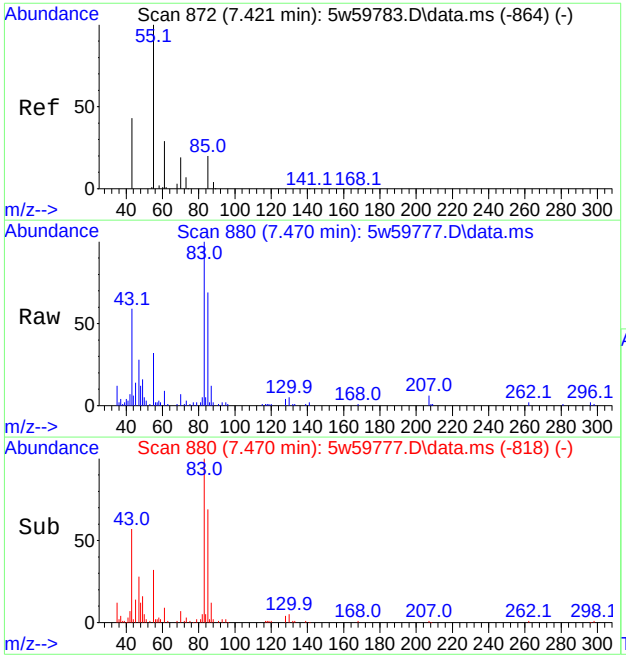


#43
DIISOPROPYL ETHER
Concen: 0.31 PPBV
RT: 7.415 min Scan# 871
Delta R.T. 0.024 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 10994

Ion	Ratio	Lower	Upper
59	100		
45	807.5	720.9	780.9#

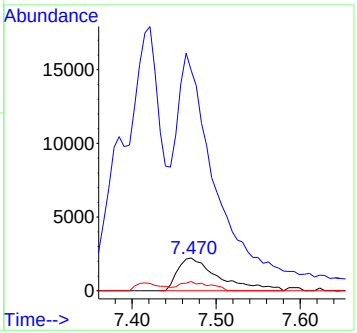


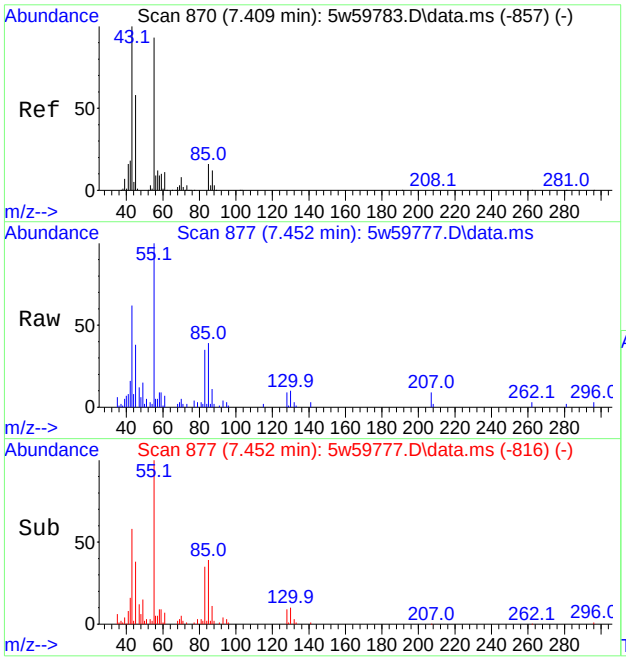


#44
ETHYL ACETATE
Concen: 0.29 PPBV
RT: 7.470 min Scan# 880
Delta R.T. 0.049 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 61 Resp: 7547

Ion	Ratio	Lower	Upper
61	100		
43	674.6	560.5	620.5#
88	20.6	4.5	64.5

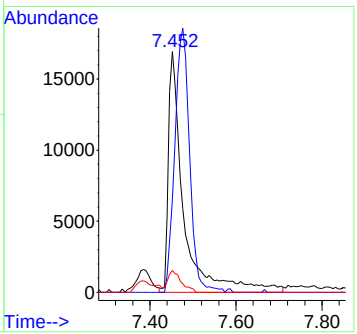


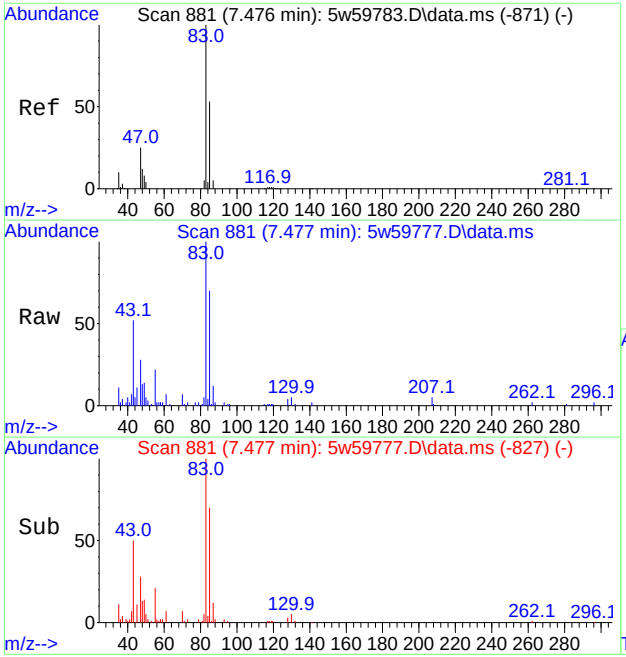


#45
METHYL ACRYLATE
Concen: 0.30 PPBV m
RT: 7.452 min Scan# 877
Delta R.T. 0.043 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 42153

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	6.0	9.4	17.6#

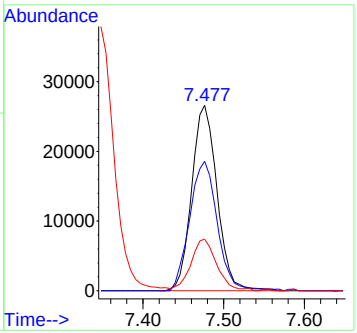


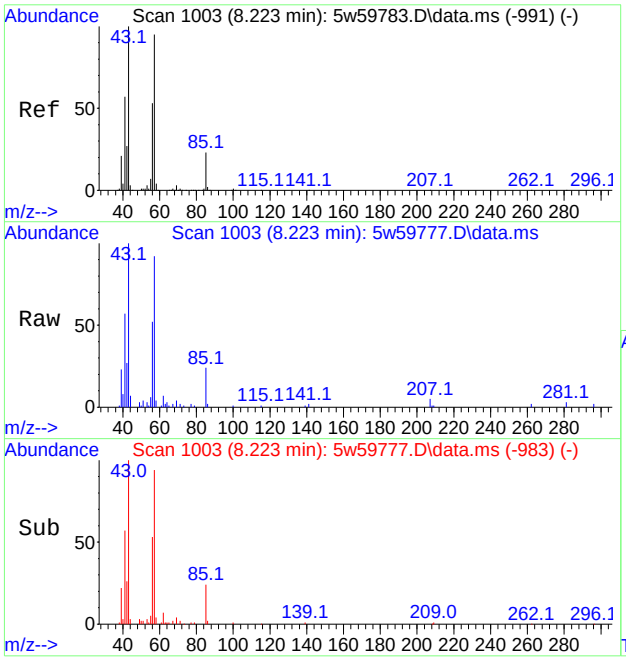


#46
CHLOROFORM
Concen: 0.34 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 58038

Ion	Ratio	Lower	Upper
83	100		
85	76.4	35.6	95.6
47	28.3	0.0	55.2

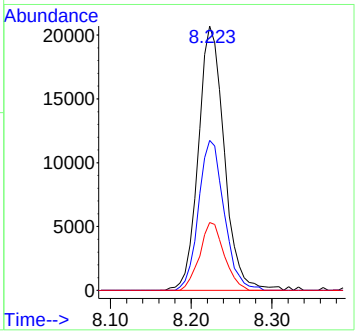


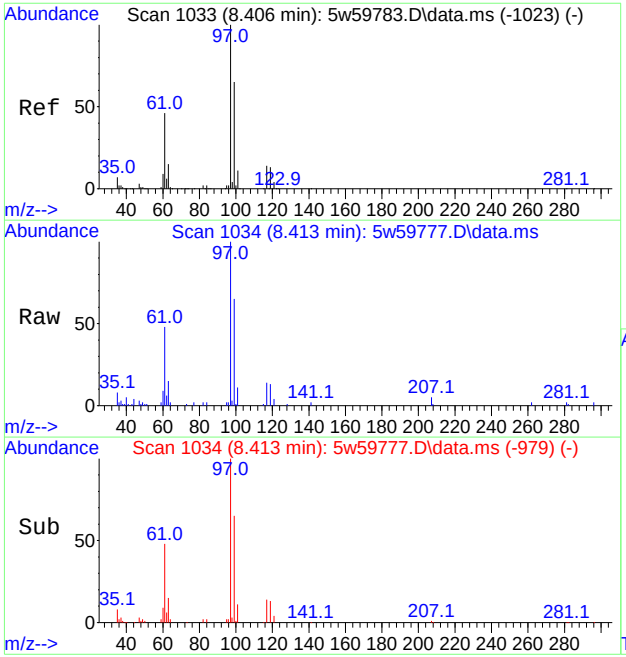


#47
2,4-DIMETHYLPENTANE
Concen: 0.34 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 46136

Ion	Ratio	Lower	Upper
57	100		
56	56.2	26.5	86.5
85	24.4	0.0	53.8

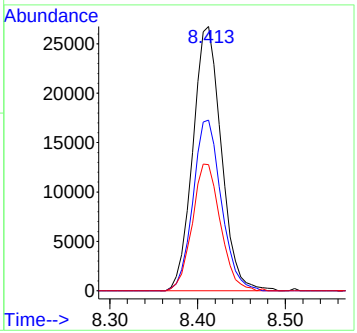


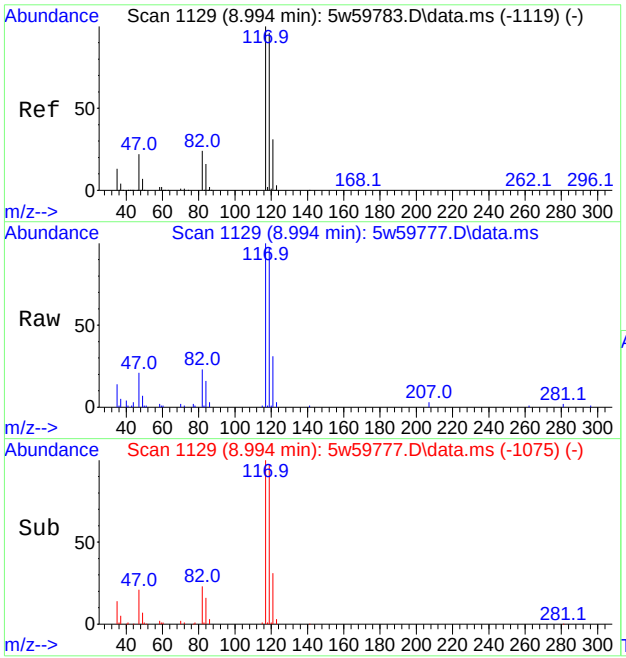


#48
1,1,1-TRICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 97 Resp: 60433

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.8	94.8
61	47.5	15.8	75.8

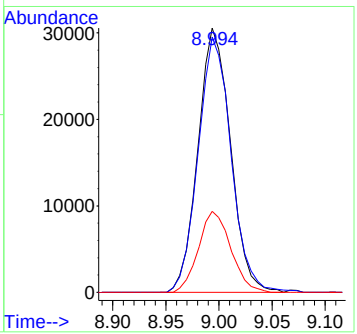


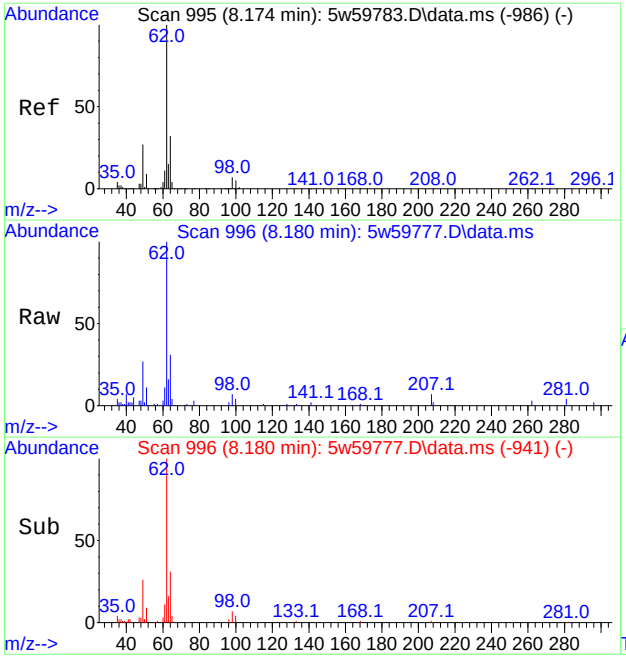


#49
CARBON TETRACHLORIDE
Concen: 0.33 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 65062

Ion	Ratio	Lower	Upper
117	100		
119	98.1	66.9	126.9
121	30.5	1.3	61.3

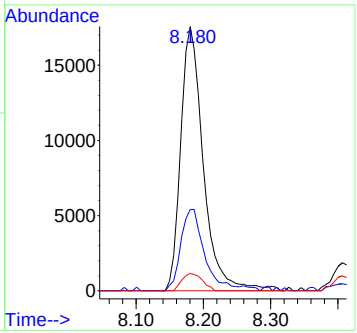


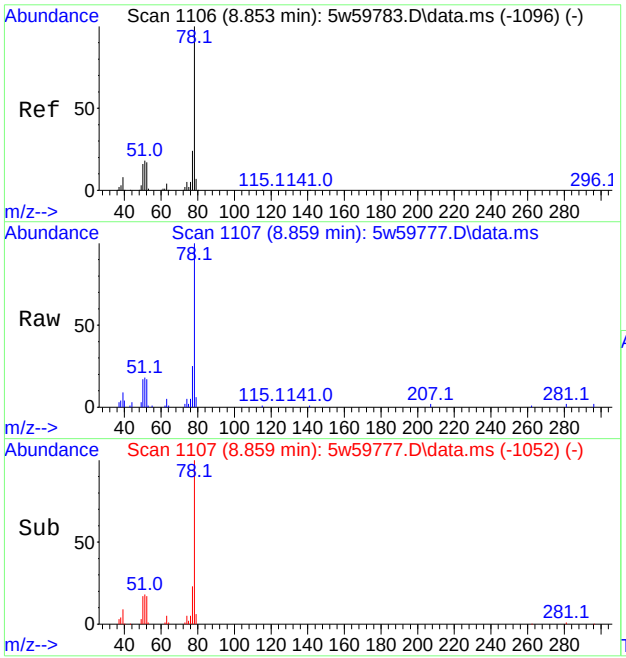


#50
1,2-DICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 41098

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	5.9	0.0	36.9

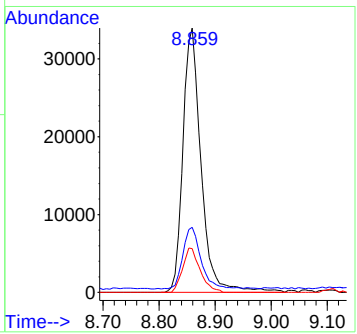


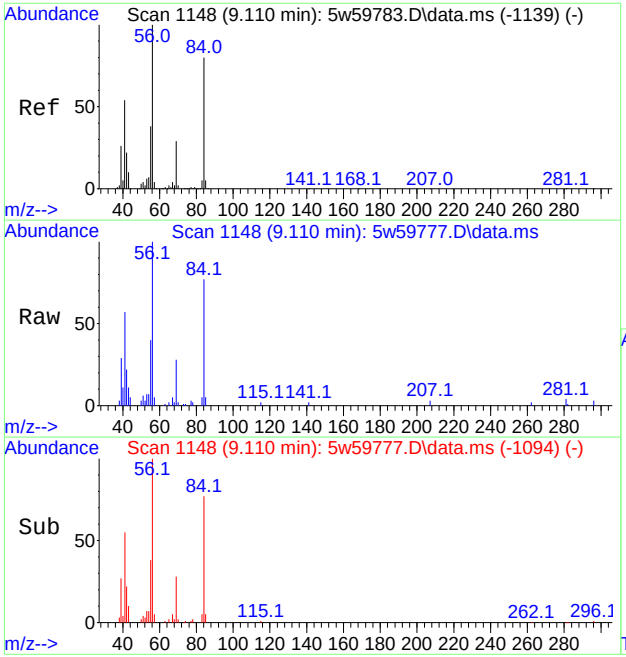


#52
BENZENE
Concen: 0.34 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 78 Resp: 76538

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	16.1	0.0	46.9

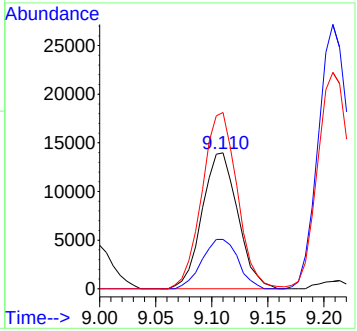


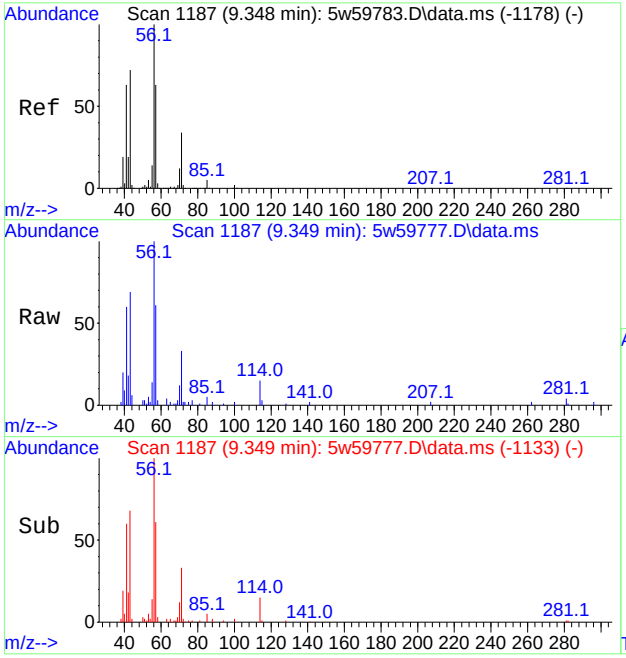


#53
CYCLOHEXANE
Concen: 0.34 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 30877

Ion	Ratio	Lower	Upper
84	100		
69	37.0	6.9	66.9
56	128.6	98.2	158.2

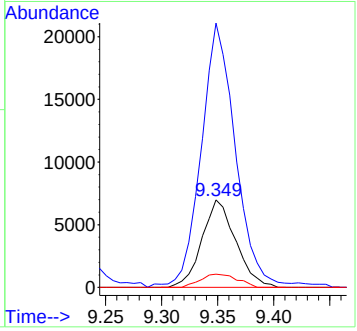


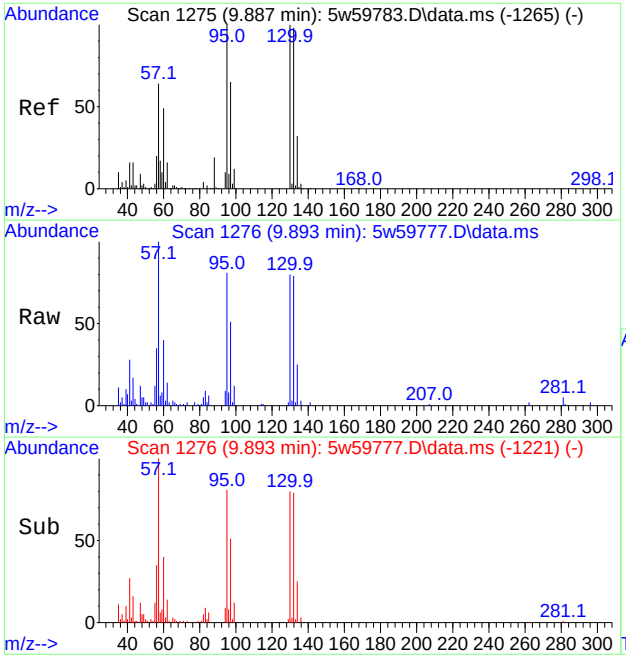


#54
2,3-DIMETHYLPENTANE
Concen: 0.32 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 71 Resp: 14658

Ion	Ratio	Lower	Upper
71	100		
56	309.7	264.6	324.6
85	16.6	0.0	45.3

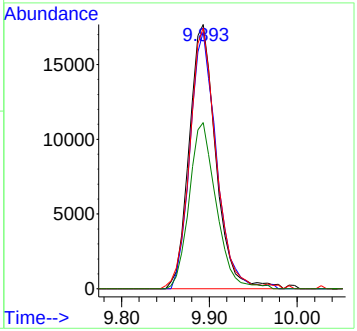


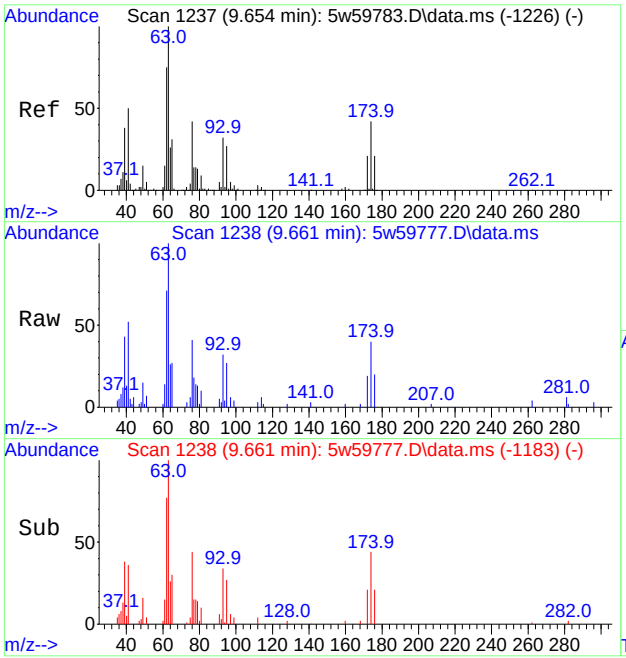


#55
TRICHLOROETHYLENE
Concen: 0.32 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 95 Resp: 37369

Ion	Ratio	Lower	Upper
95	100		
132	96.2	69.0	129.0
130	98.7	70.6	130.6
97	63.6	34.6	94.6

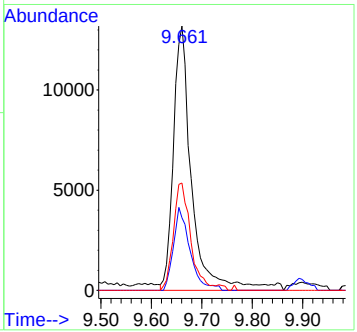


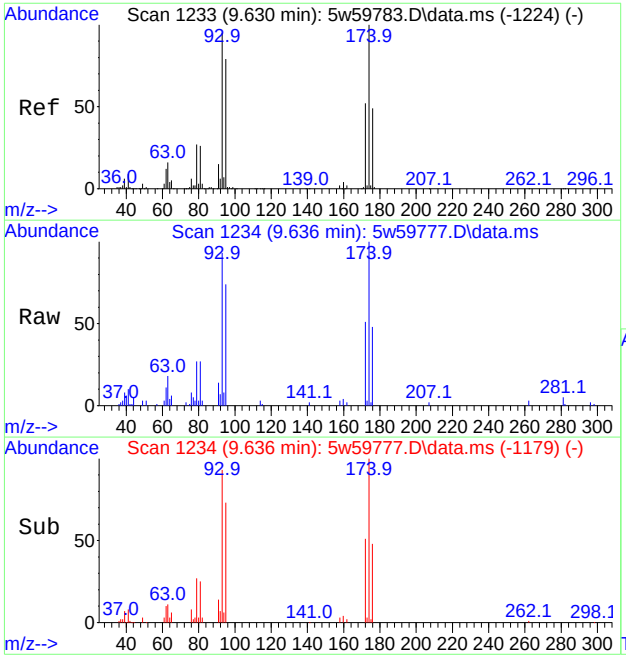


#56
1,2-DICHLOROPROPANE
Concen: 0.35 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 33377

Ion	Ratio	Lower	Upper
63	100		
65	28.2	0.5	60.5
76	39.1	11.5	71.5

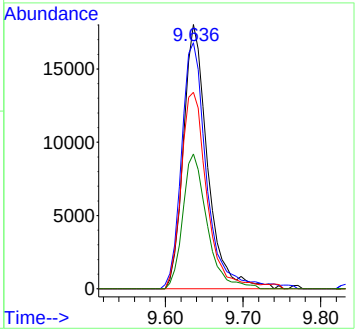


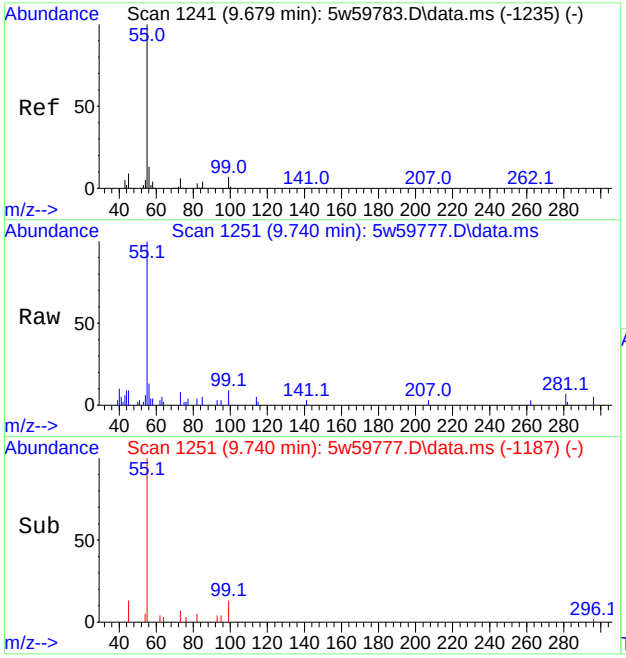


#57
DIBROMOMETHANE
Concen: 0.31 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:174 Resp: 39103

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	80.0	54.5	101.1
172	51.2	36.3	67.5

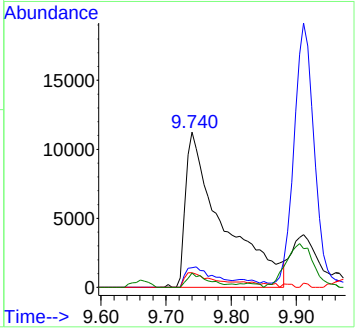


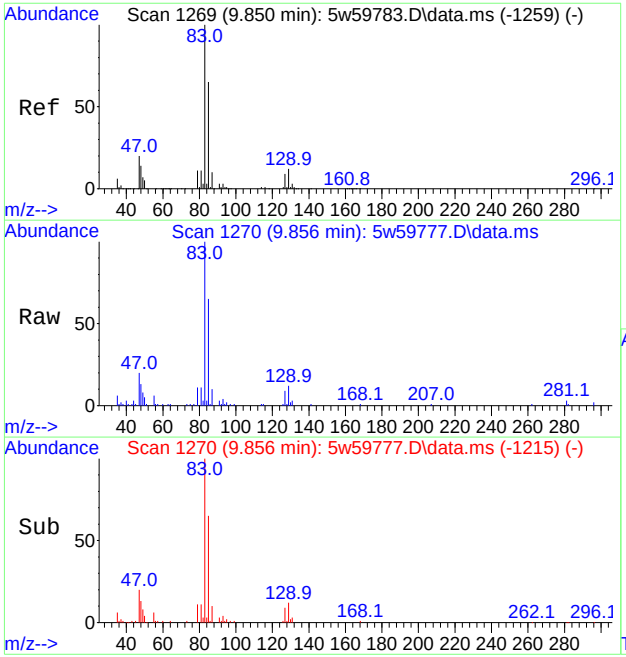


#58
ETHYL ACRYLATE
Concen: 0.25 PPBV
RT: 9.740 min Scan# 1251
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 44771

Ion	Ratio	Lower	Upper
55	100		
56	13.8	8.6	16.0
45	9.9	6.6	12.2
99	6.9	6.4	12.0

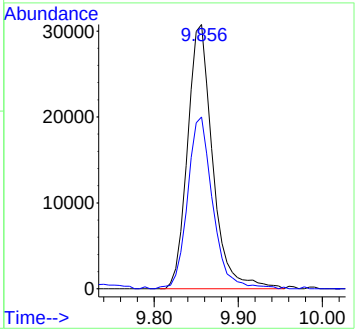


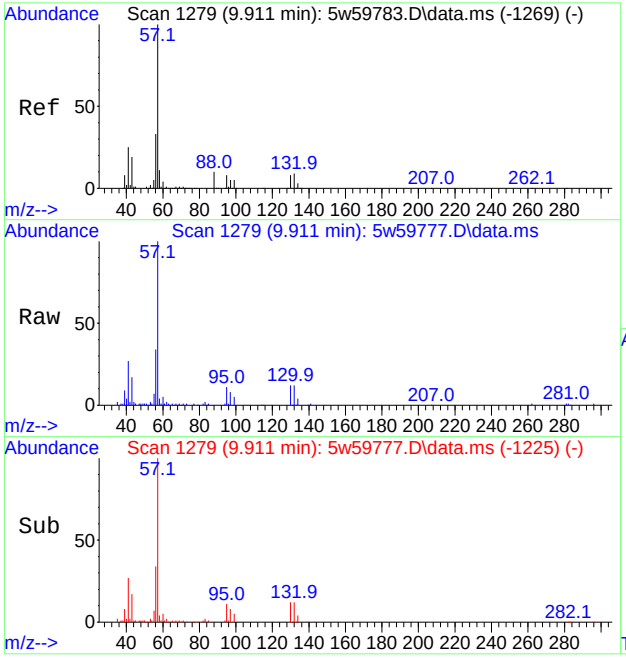


#59
BROMODICHLOROMETHANE
Concen: 0.31 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 64038

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

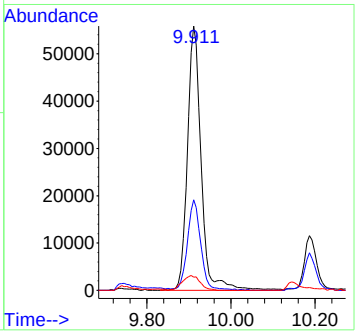


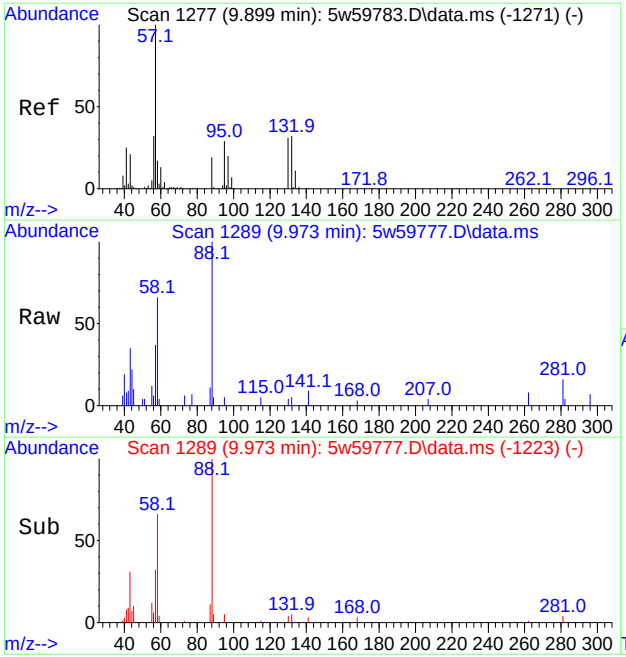


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.35 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 127085

Ion	Ratio	Lower	Upper
57	100		
56	33.3	2.5	62.5
99	7.3	0.0	37.3

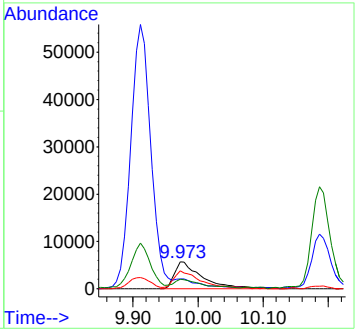


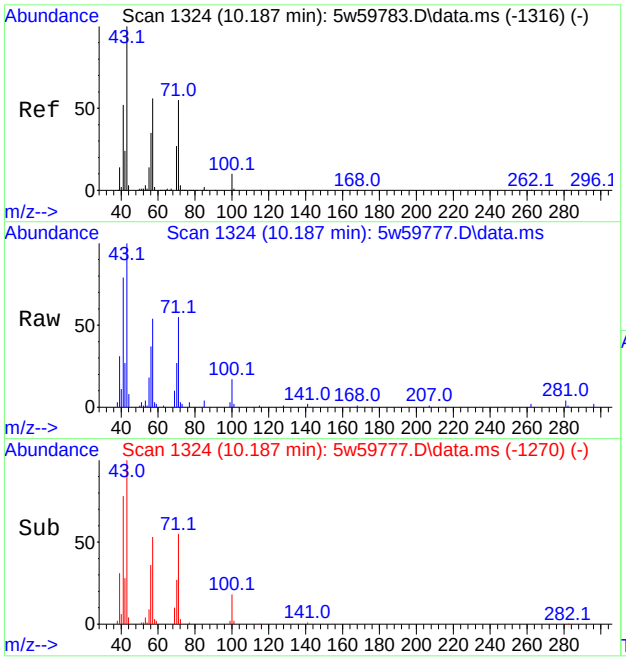


#61
1,4-DIOXANE
Concen: 0.32 PPBV
RT: 9.973 min Scan# 1289
Delta R.T. 0.074 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 88 Resp: 17043

Ion	Ratio	Lower	Upper
88	100		
57	36.5	494.2	554.2#
58	66.1	58.9	118.9
43	35.3	78.3	138.3#

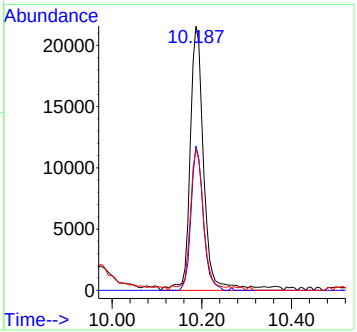


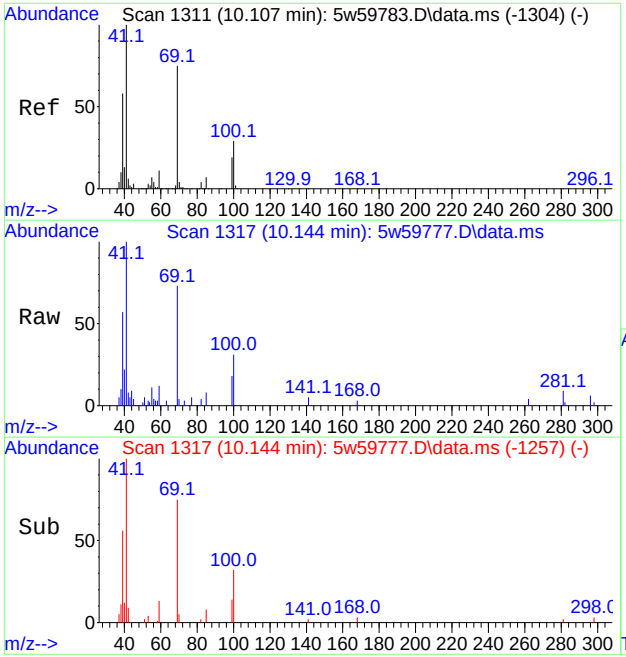


#62
HEPTANE
Concen: 0.38 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 45917

Ion	Ratio	Lower	Upper
43	100		
71	48.0	24.5	84.5
57	53.4	26.2	86.2

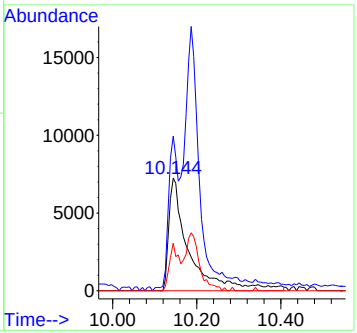


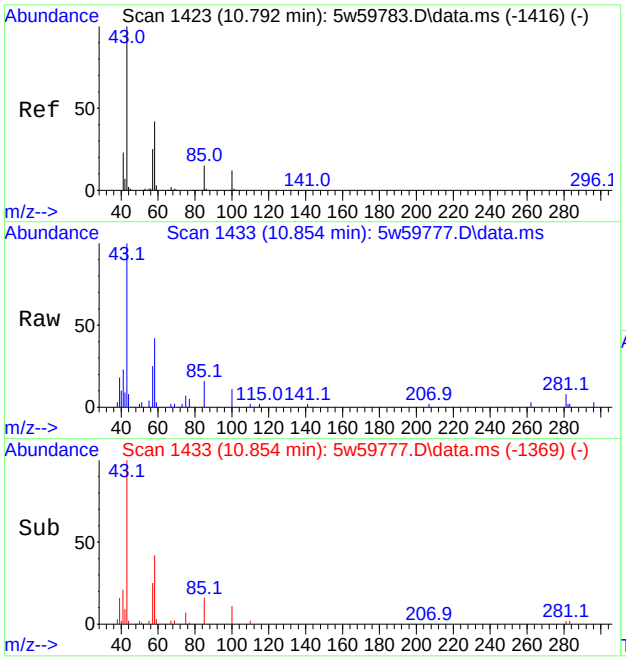


#63
METHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 10.144 min Scan# 1317
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 24229

Ion	Ratio	Lower	Upper
69	100		
41	73.7	95.3	155.3#
100	22.5	6.3	66.3

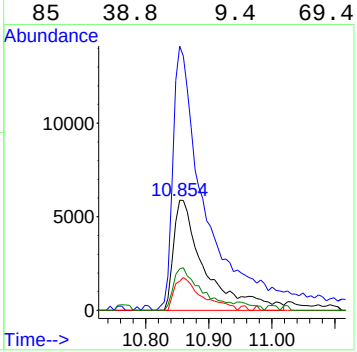


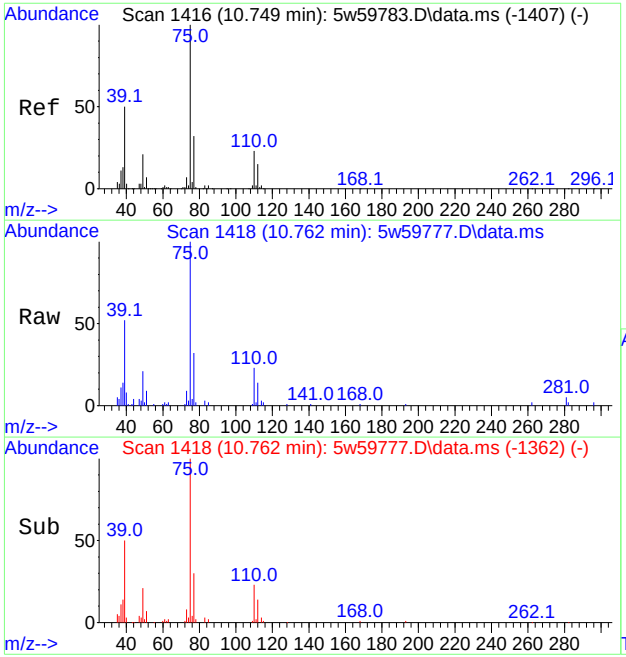


#64
METHYL ISOBUTYL KETONE
Concen: 0.27 PPBV
RT: 10.854 min Scan# 1433
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 20298

Ion	Ratio	Lower	Upper
58	100		
43	262.8	209.2	269.2
100	26.0	0.0	58.8
85	38.8	9.4	69.4

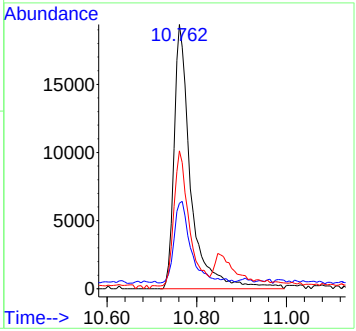


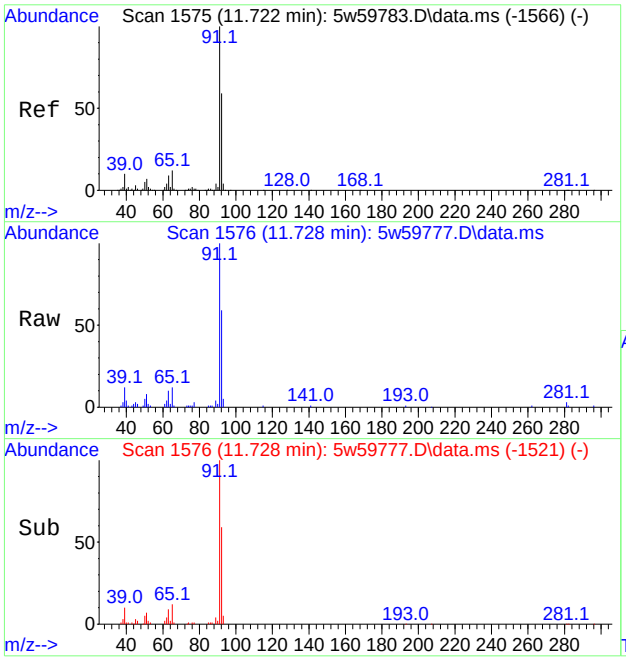


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.32 PPBV
RT: 10.762 min Scan# 1418
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 50330

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	47.9	34.3	94.3

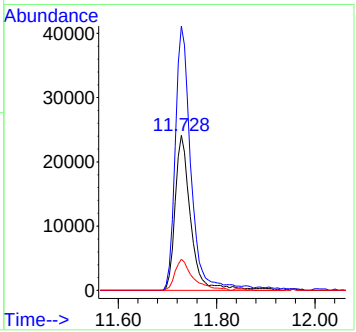


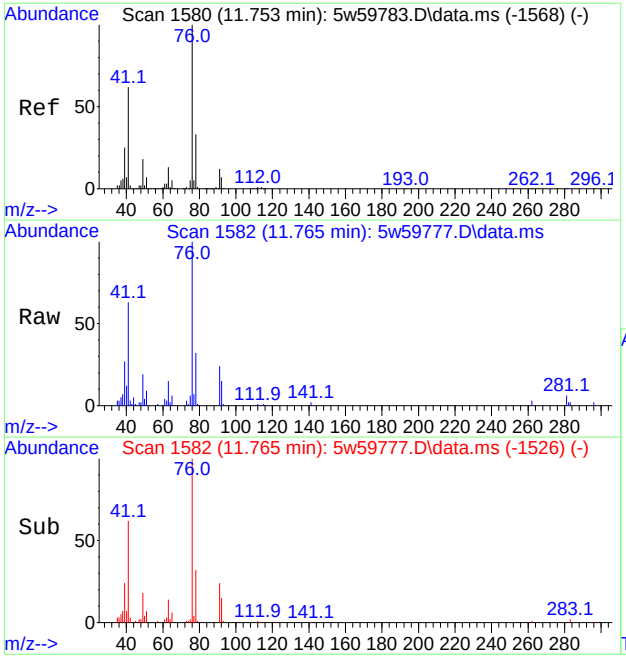


#66
TOLUENE
Concen: 0.31 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 92 Resp: 53175

Ion	Ratio	Lower	Upper
92	100		
91	174.5	140.1	200.1
65	23.0	0.0	53.1

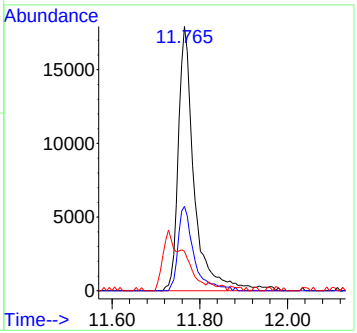


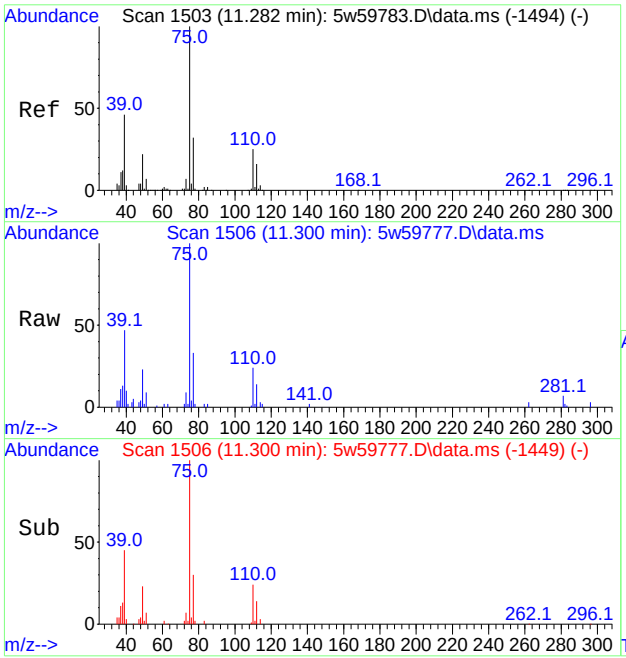


#67
1,3-DICHLOROPROPANE
Concen: 0.32 PPBV
RT: 11.765 min Scan# 1582
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 45275

Ion	Ratio	Lower	Upper
76	100		
78	31.9	23.2	43.0
63	0.0	7.1	13.1#

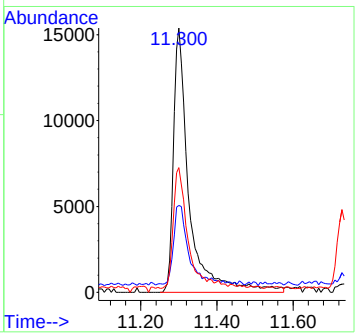


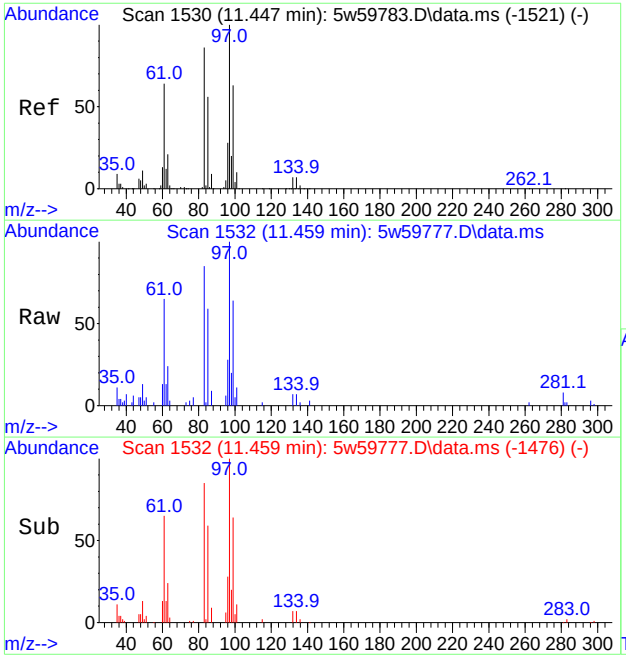


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.30 PPBV
RT: 11.300 min Scan# 1506
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 44098

Ion	Ratio	Lower	Upper
75	100		
77	28.5	1.6	61.6
39	49.3	16.1	76.1

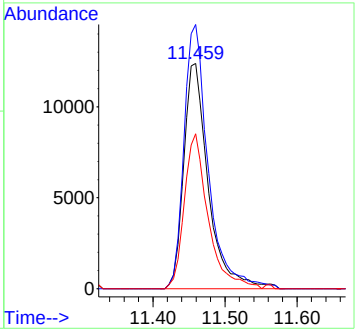


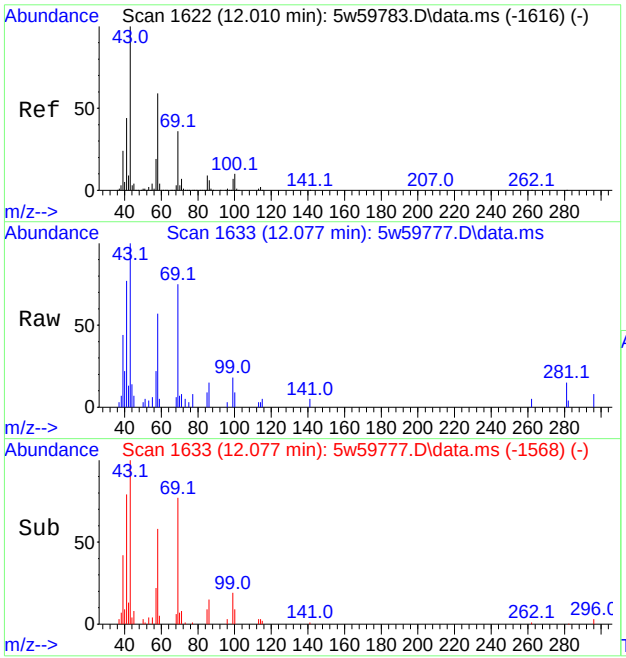


#69
1,1,2-TRICHLOROETHANE
Concen: 0.31 PPBV
RT: 11.459 min Scan# 1532
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 29376

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	66.8	35.3	95.3

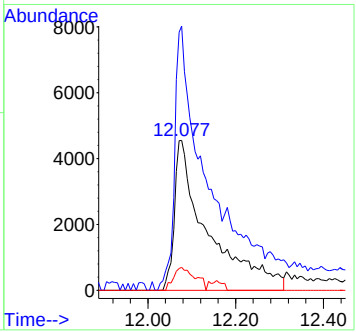


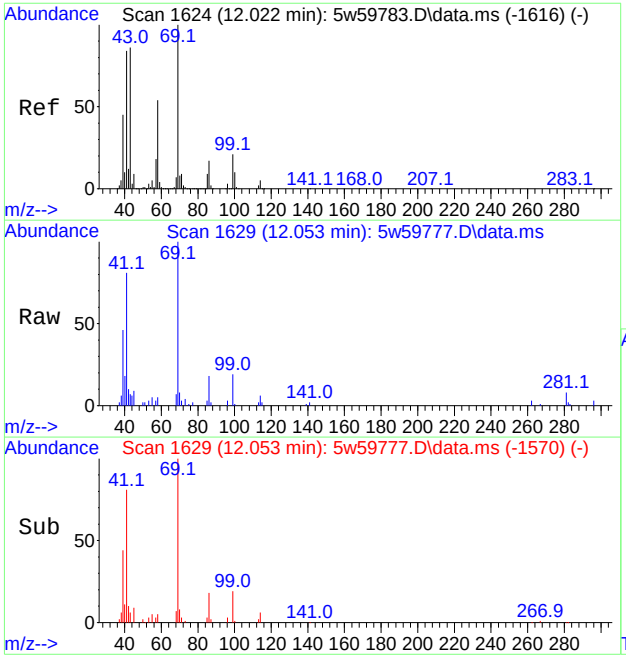


#71
2-HEXANONE
Concen: 0.25 PPBV
RT: 12.077 min Scan# 1633
Delta R.T. 0.067 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 24053

Ion	Ratio	Lower	Upper
58	100		
43	181.6	137.2	197.2
100	9.8	0.0	46.9

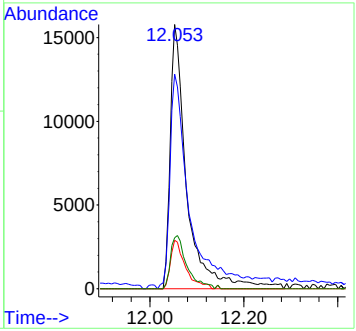


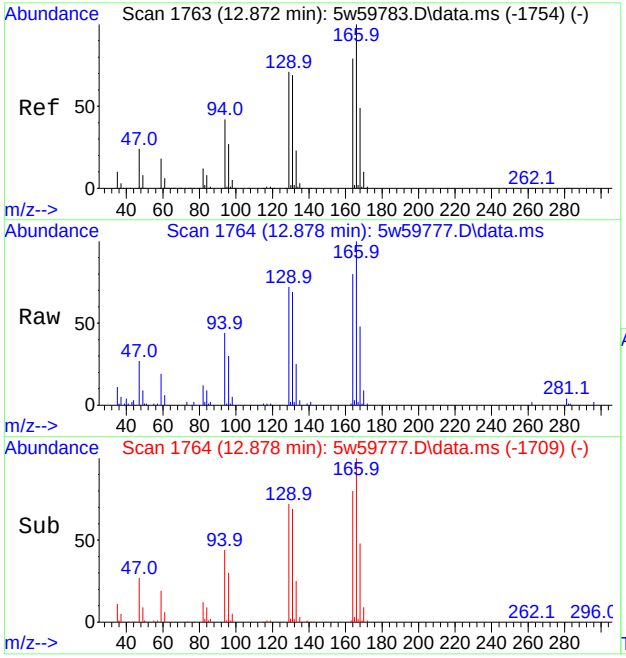


#72
ETHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 12.053 min Scan# 1629
Delta R.T. 0.031 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 39133

Ion	Ratio	Lower	Upper
69	100		
41	104.7	64.0	119.0
86	16.5	12.0	22.4
99	19.9	15.0	27.8

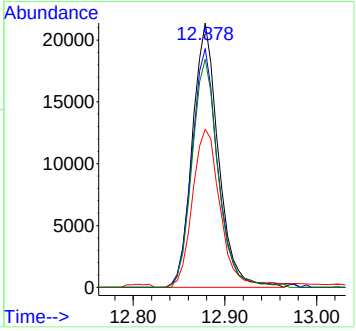


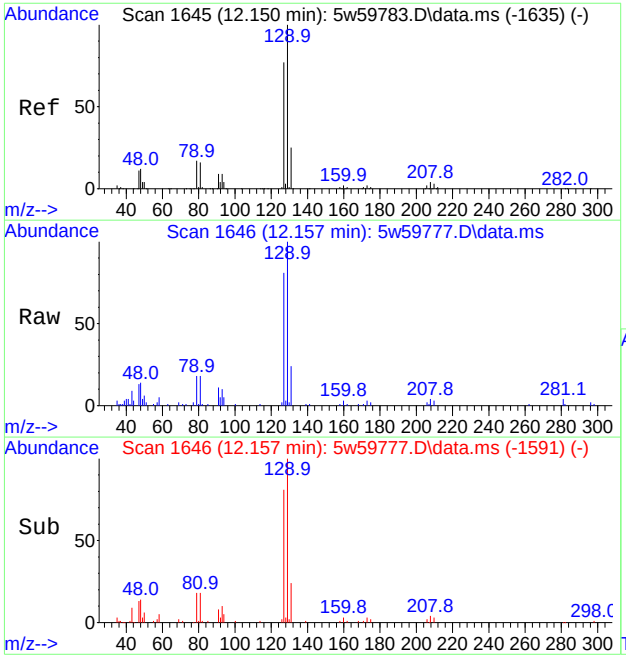


#73
TETRACHLOROETHYLENE
Concen: 0.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:164 Resp: 42039

Ion	Ratio	Lower	Upper
164	100		
129	92.1	59.7	119.7
168	67.5	32.2	92.2
131	87.3	57.8	117.8

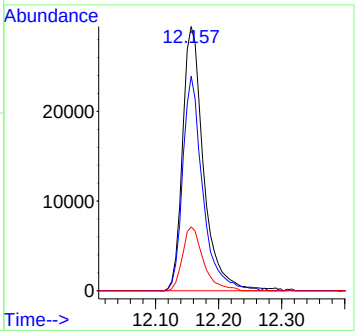


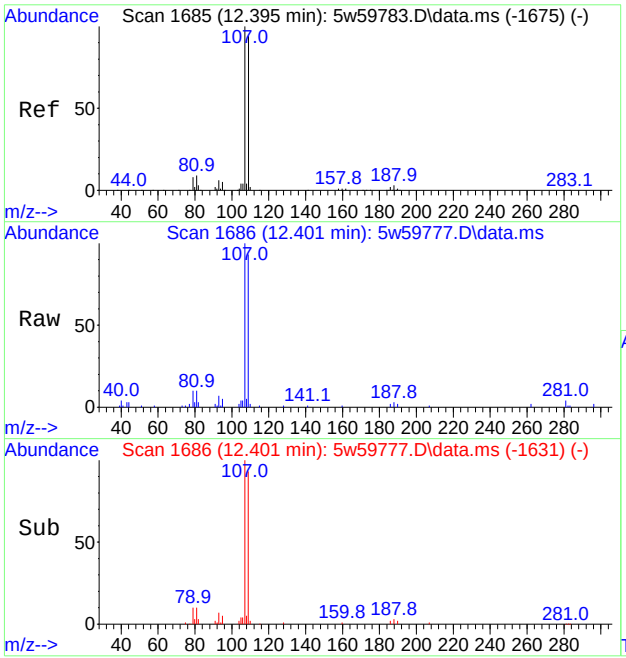


#74
DIBROMOCHLOROMETHANE
Concen: 0.33 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:129 Resp: 68347

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.0	0.0	54.5

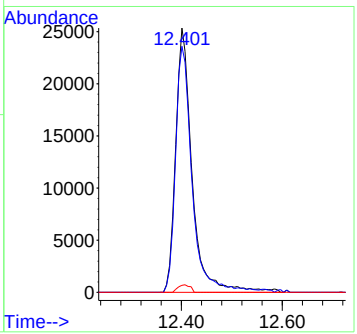


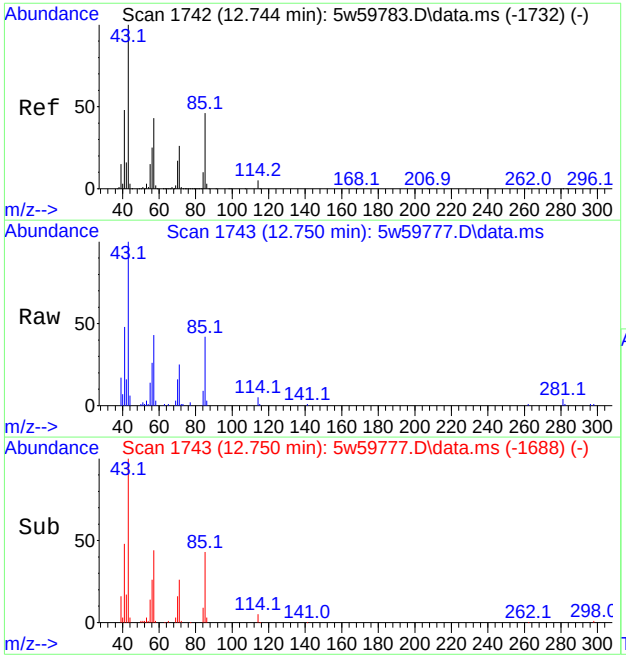


#75
1,2-DIBROMOETHANE
Concen: 0.36 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:107 Resp: 57560

Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.8	124.8
188	2.2	0.0	32.8

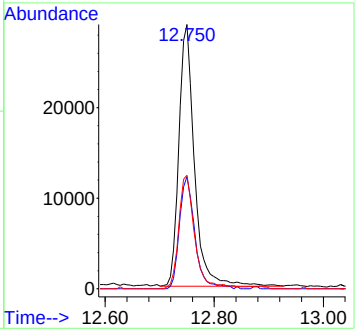


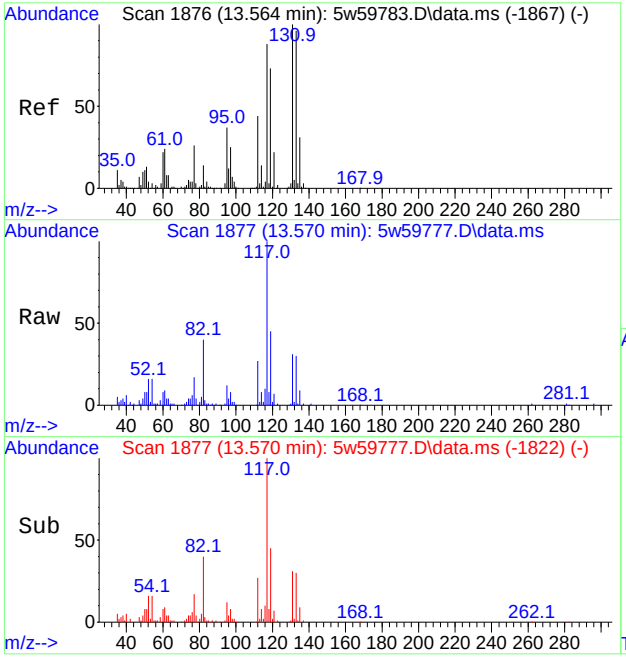


#76
OCTANE
Concen: 0.37 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 57196

Ion	Ratio	Lower	Upper
43	100		
85	42.4	14.6	74.6
57	45.8	13.7	73.7

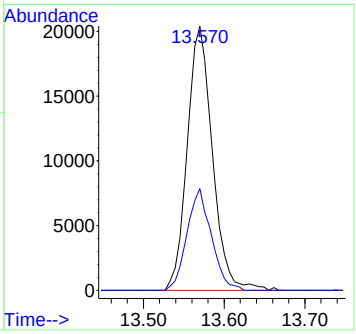


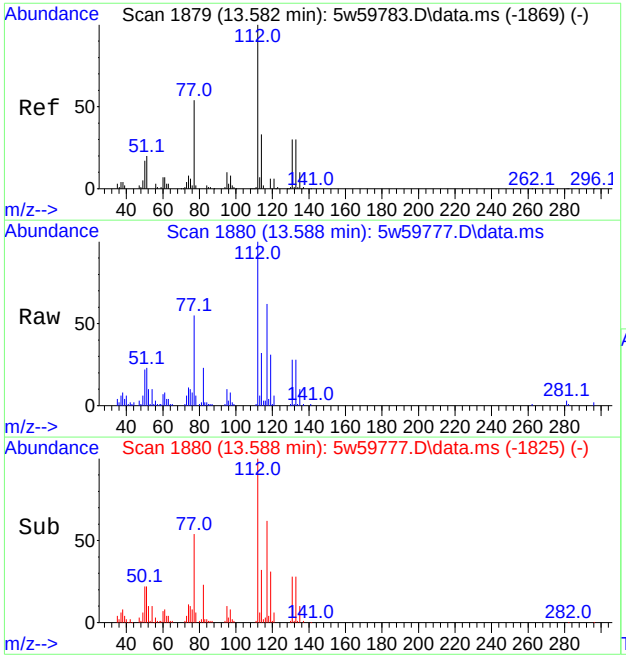


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.34 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:131 Resp: 44229

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

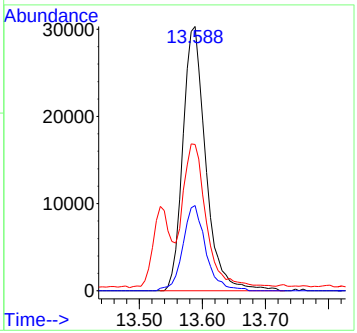


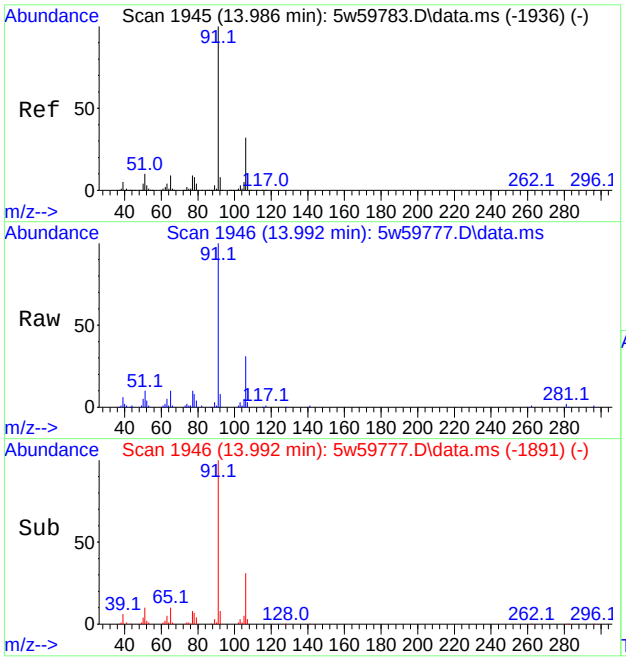


#78
CHLOROBENZENE
Concen: 0.36 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:112 Resp: 76482

Ion	Ratio	Lower	Upper
112	100		
114	32.3	2.6	62.6
77	54.6	25.4	85.4

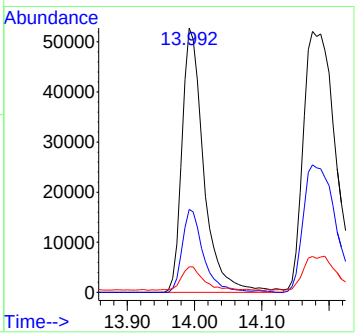


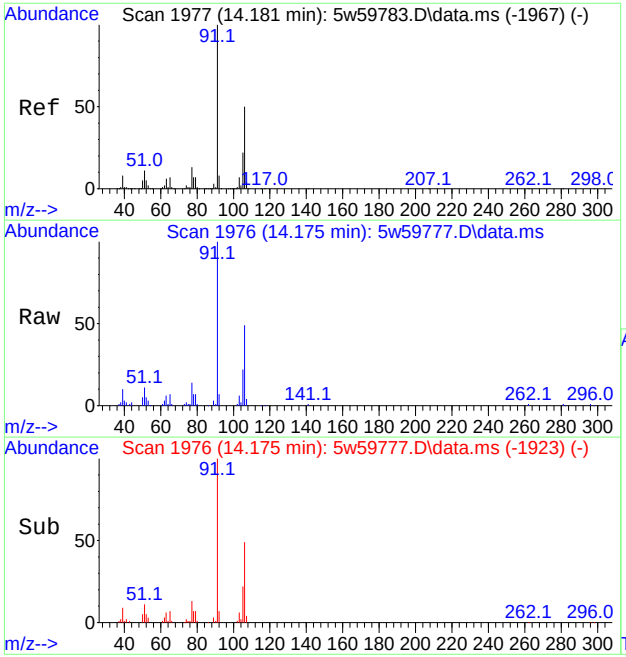


#79
ETHYLBENZENE
Concen: 0.37 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 119442

Ion	Ratio	Lower	Upper
91	100		
106	30.6	1.3	61.3
77	9.8	0.0	38.6

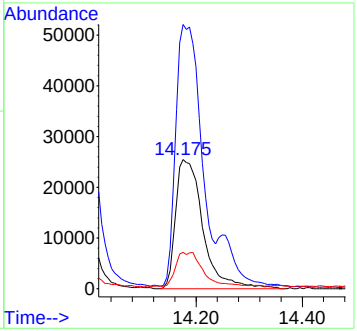


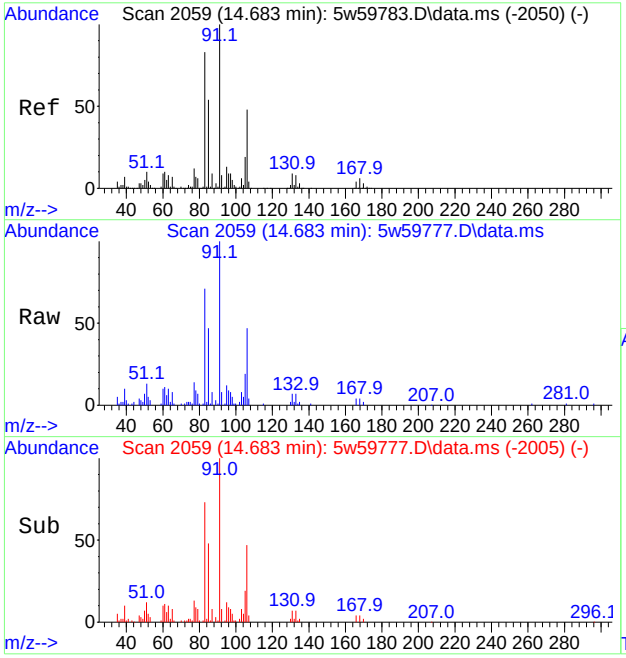


#80
m,p-XYLENE
Concen: 0.70 PPBV
RT: 14.175 min Scan# 1976
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 91065

Ion	Ratio	Lower	Upper
106	100		
91	204.5	171.0	231.0
77	28.2	0.0	56.7

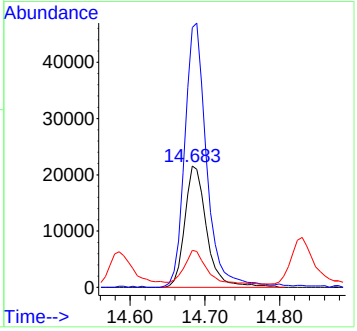


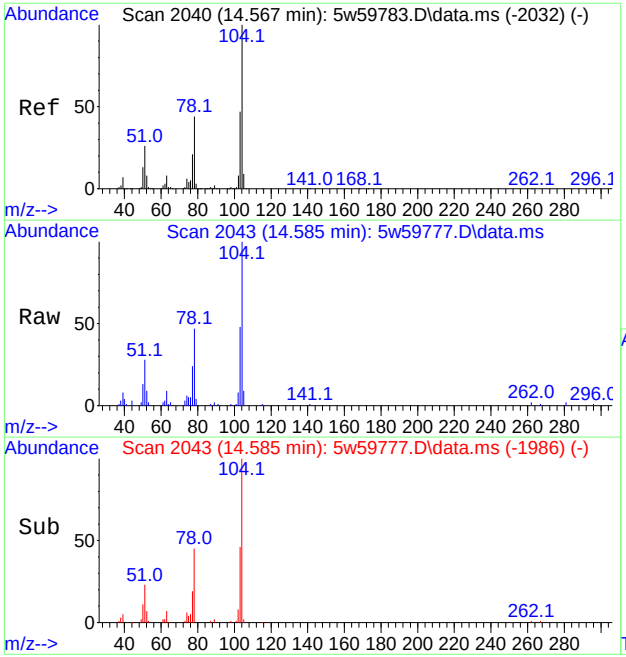


#81
o-XYLENE
Concen: 0.35 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 43793

Ion	Ratio	Lower	Upper
106	100		
91	220.8	181.6	241.6
77	30.0	0.0	56.6

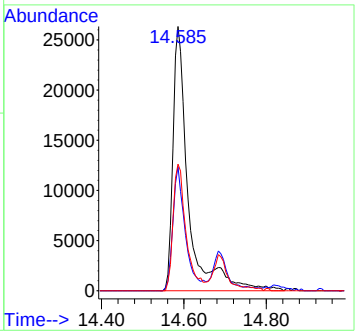


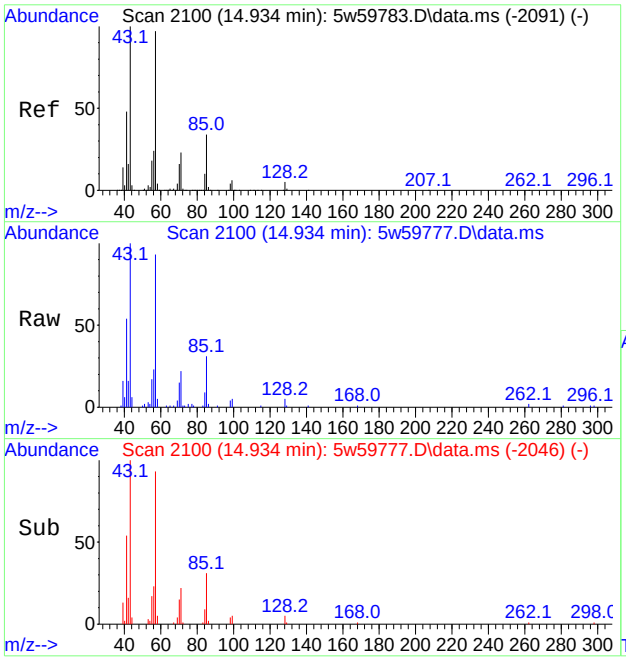


#82
STYRENE
Concen: 0.36 PPBV
RT: 14.585 min Scan# 2043
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:104 Resp: 68779

Ion	Ratio	Lower	Upper
104	100		
78	38.1	13.3	73.3
103	40.5	17.2	77.2

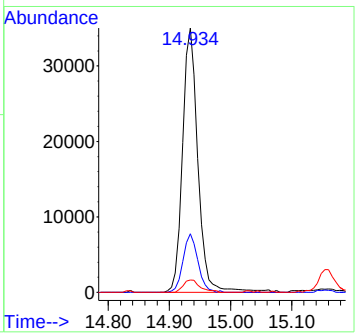


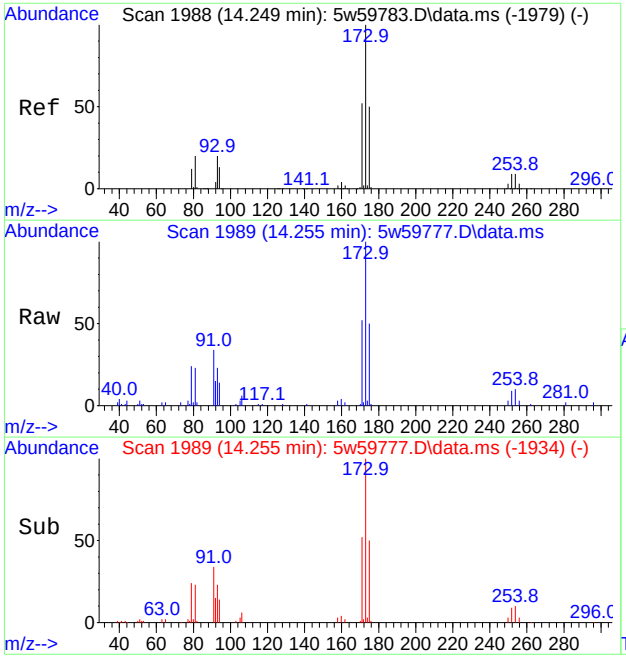


#83
NONANE
Concen: 0.39 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 61419

Ion	Ratio	Lower	Upper
43	100		
71	21.3	0.0	52.7
128	5.1	0.0	34.7

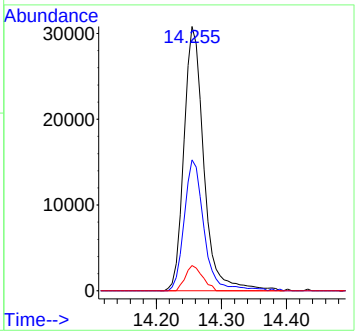


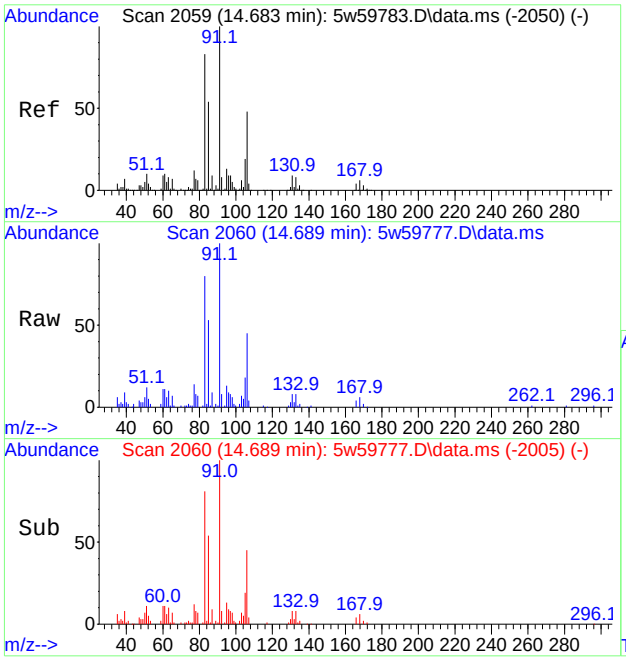


#84
BROMOFORM
Concen: 0.31 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:173 Resp: 65517

Ion	Ratio	Lower	Upper
173	100		
175	49.3	19.6	79.6
254	8.2	0.0	39.0

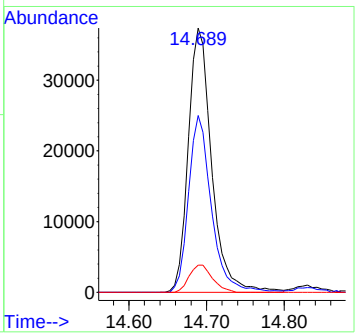


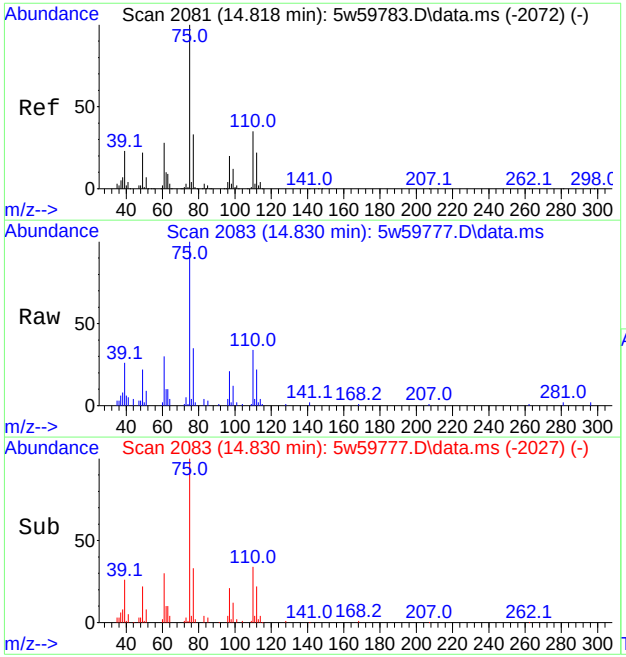


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.37 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 78542

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.2	95.2
131	10.3	0.0	40.3

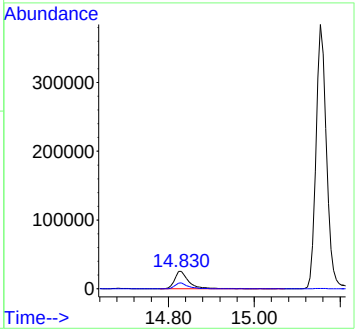


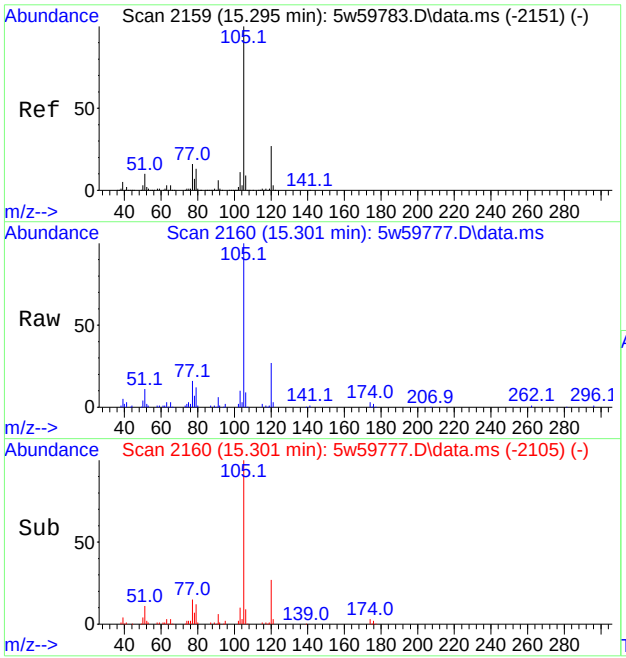


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.37 PPBV
RT: 14.830 min Scan# 2083
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 59513

Ion	Ratio	Lower	Upper
75	100		
110	30.7	4.4	64.4

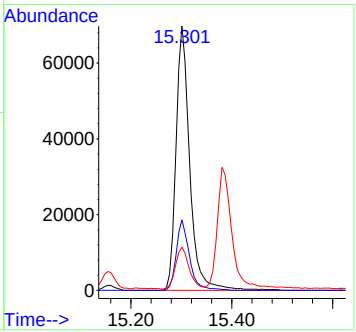


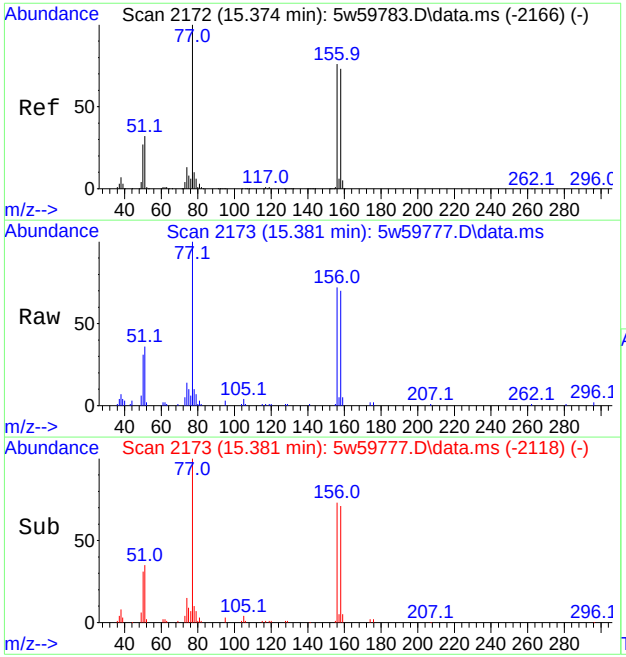


#88
ISOPROPYLBENZENE
Concen: 0.35 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 132085

Ion	Ratio	Lower	Upper
105	100		
120	25.5	0.0	56.0
77	15.4	0.0	45.6

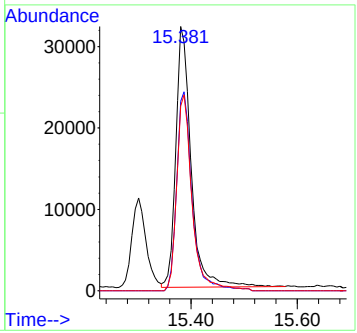


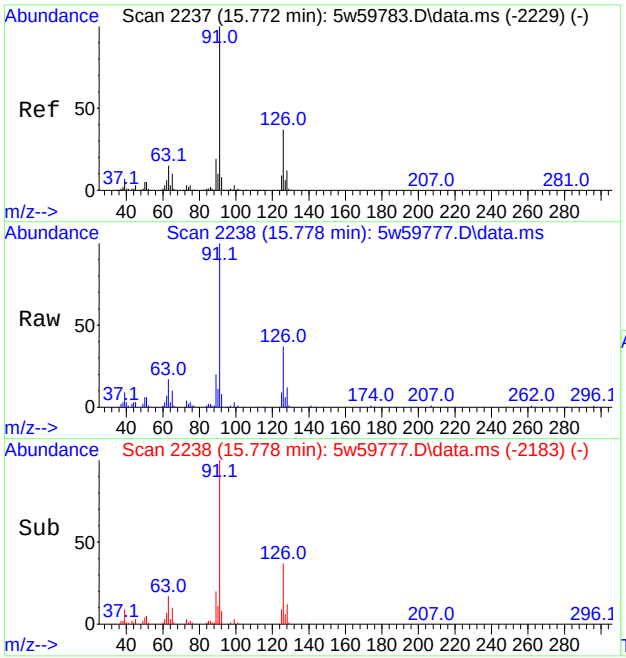


#89
BROMOBENZENE
Concen: 0.34 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 77 Resp: 64086

Ion	Ratio	Lower	Upper
77	100		
156	76.9	54.9	101.9
158	75.5	53.5	99.3

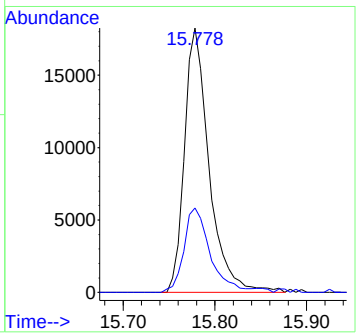


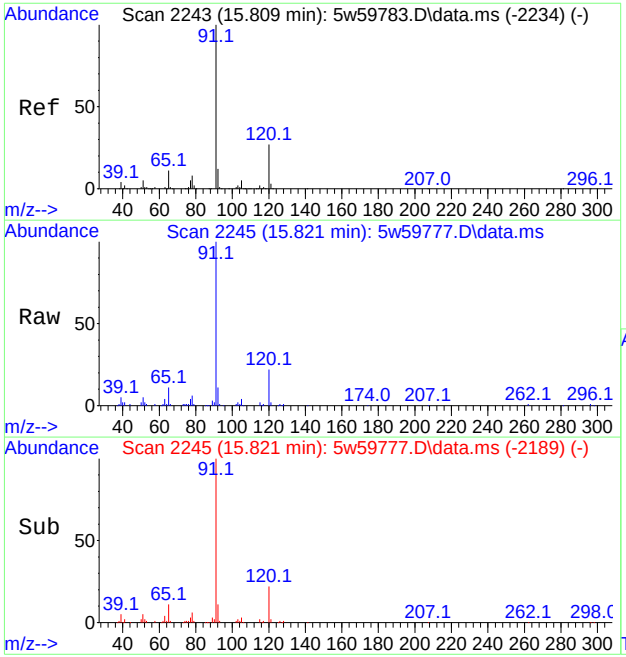


#90
2-CHLOROTOLUENE
Concen: 0.33 PPBV
RT: 15.778 min Scan# 2238
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:126 Resp: 34084

Ion	Ratio	Lower	Upper
126	100		
128	34.8	2.7	62.7

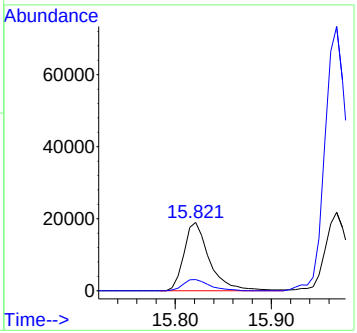


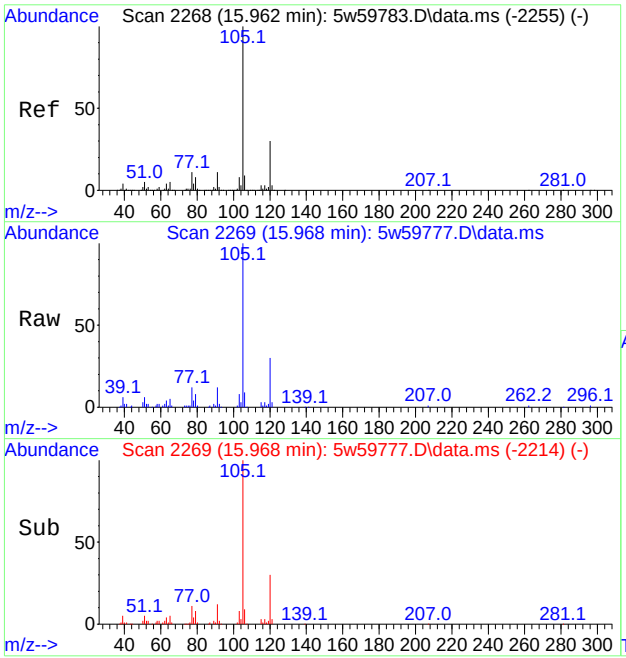


#91
n-PROPYLBENZENE
Concen: 0.34 PPBV
RT: 15.821 min Scan# 2245
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:120 Resp: 35058

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

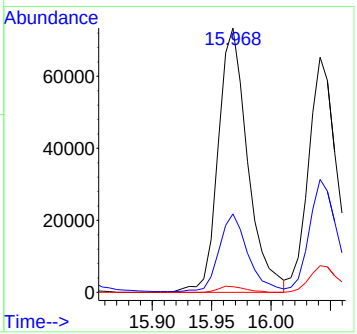


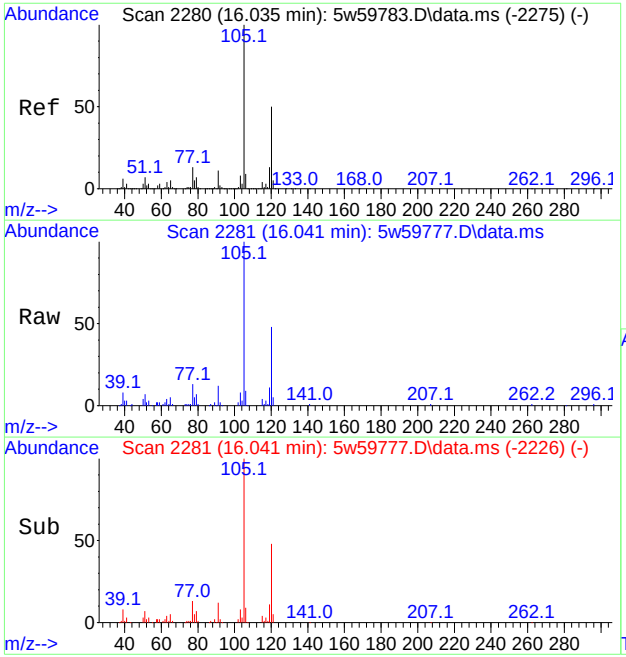


#92
4-ETHYLTOLUENE
Concen: 0.35 PPBV
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 126699

Ion	Ratio	Lower	Upper
105	100		
120	29.4	0.0	59.9
119	2.1	0.0	32.3

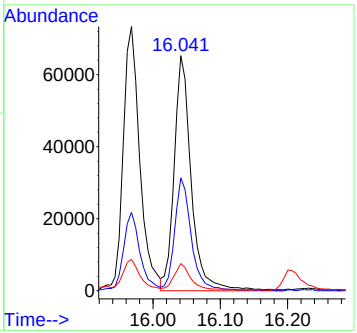


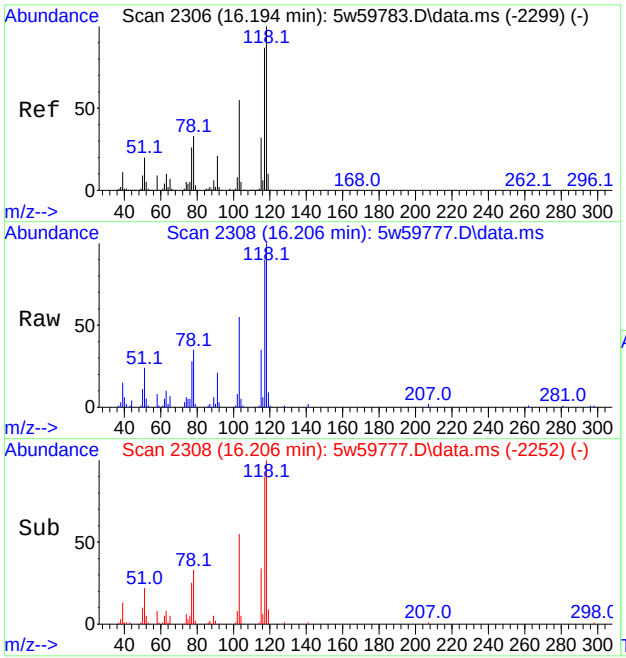


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.38 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 115870

Ion	Ratio	Lower	Upper
105	100		
120	47.0	19.4	79.4
91	12.8	0.0	40.8

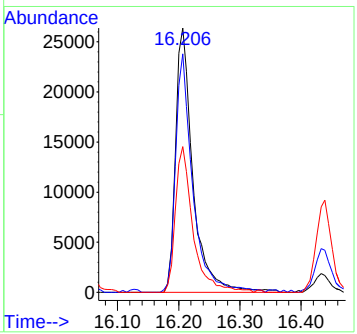


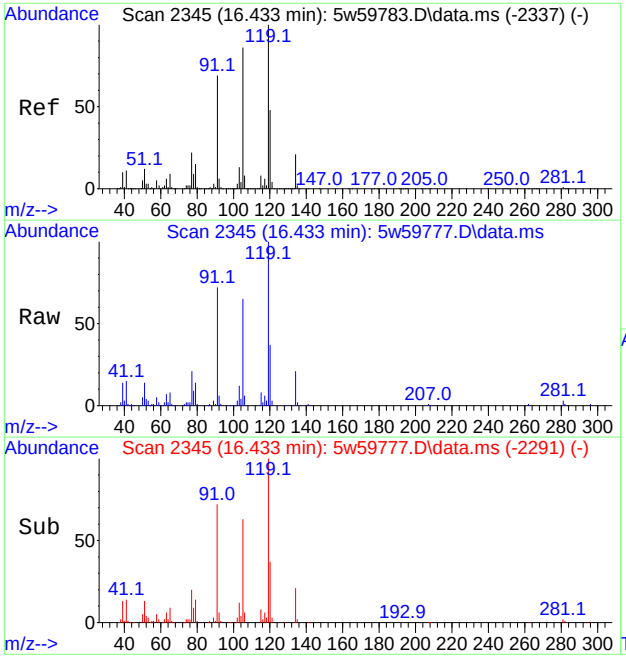


#94
ALPHA-METHYLSTYRENE
Concen: 0.31 PPBV
RT: 16.206 min Scan# 2308
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:118 Resp: 51966

Ion	Ratio	Lower	Upper
118	100		
117	89.3	60.9	113.1
103	55.9	38.6	71.8

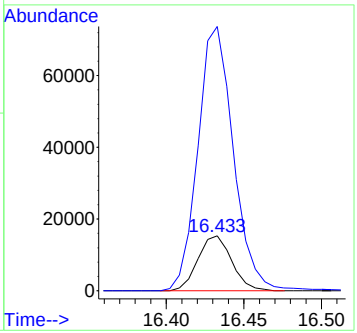


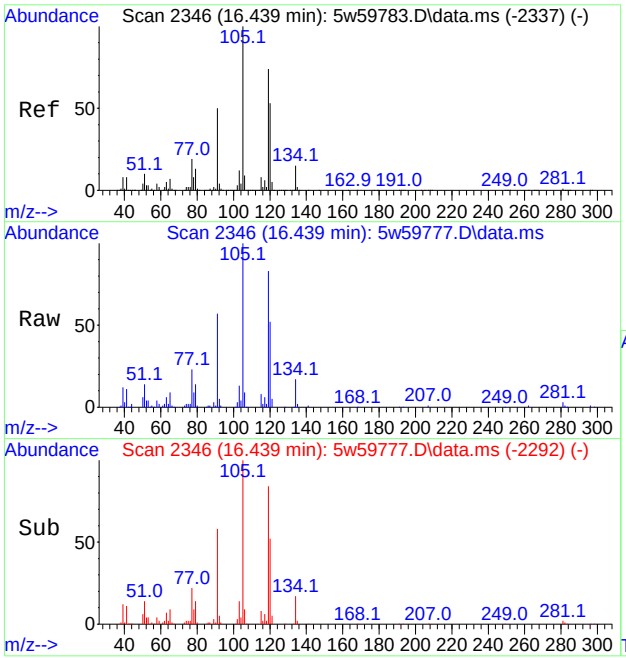


#95
tert-BUTYLBENZENE
Concen: 0.35 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 23128

Ion	Ratio	Lower	Upper
134	100		
119	509.5	459.3	519.3

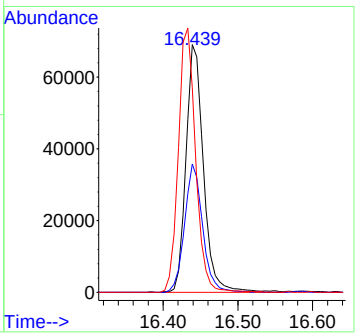


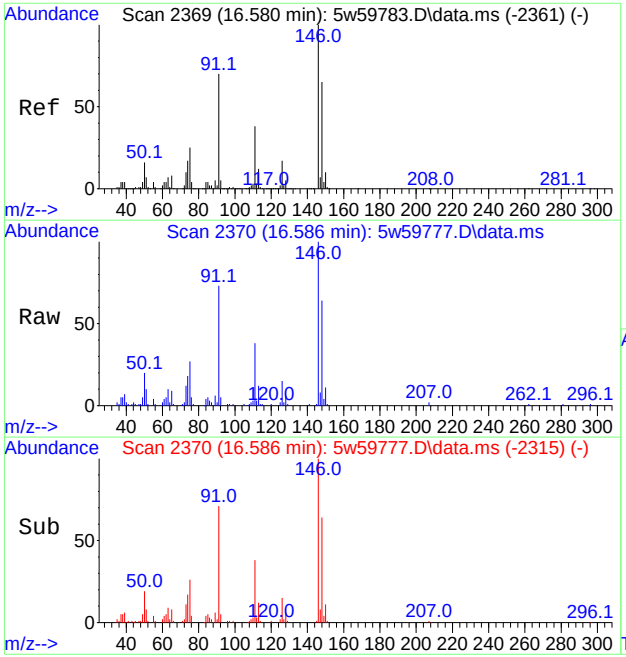


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 112549

Ion	Ratio	Lower	Upper
105	100		
120	53.3	25.7	85.7
119	104.7	75.7	135.7

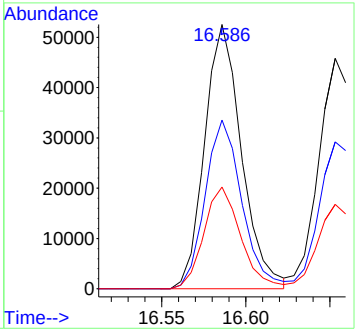


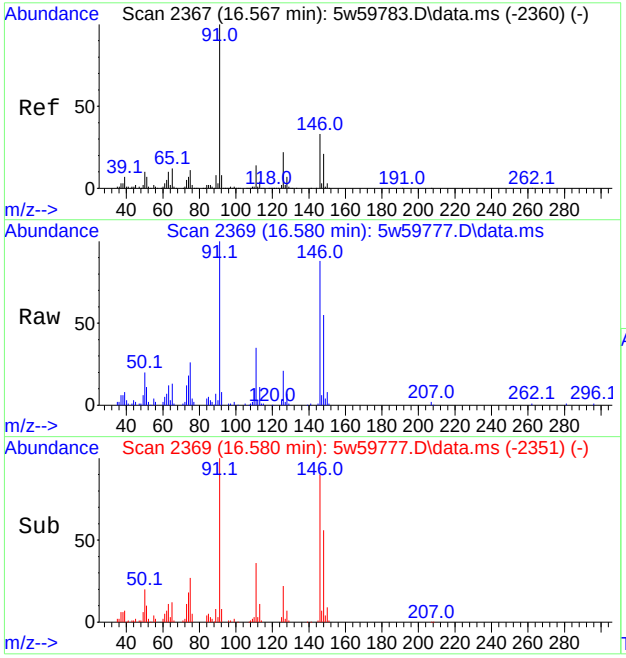


#97
m-DICHLOROBENZENE
Concen: 0.33 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 80323

Ion	Ratio	Lower	Upper
146	100		
148	63.5	34.8	94.8
111	38.5	8.2	68.2

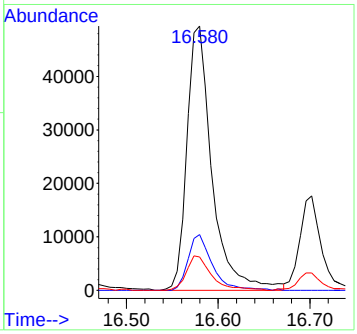


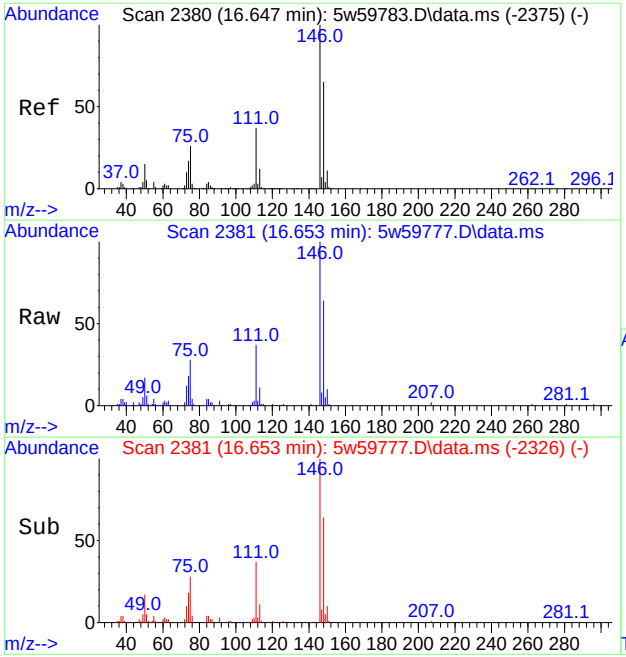


#98
BENZYL CHLORIDE
Concen: 0.31 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 94193

Ion	Ratio	Lower	Upper
91	100		
126	20.4	0.0	51.7
65	13.1	0.0	42.2

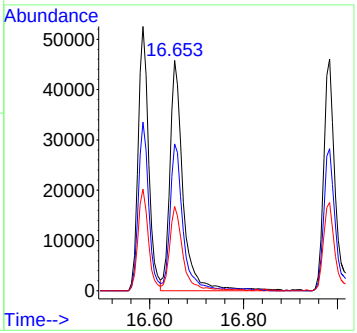


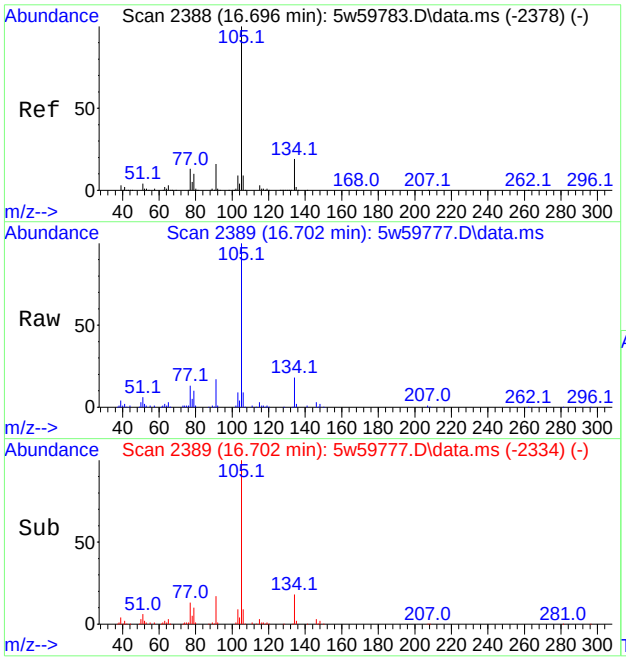


#99
p-DICHLOROBENZENE
Concen: 0.38 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 89982

Ion	Ratio	Lower	Upper
146	100		
148	63.9	34.6	94.6
111	37.0	6.7	66.7

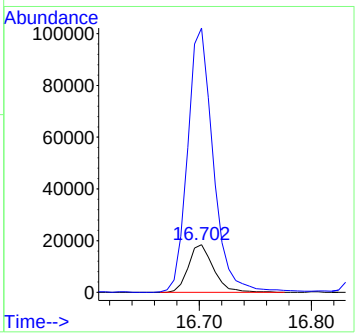


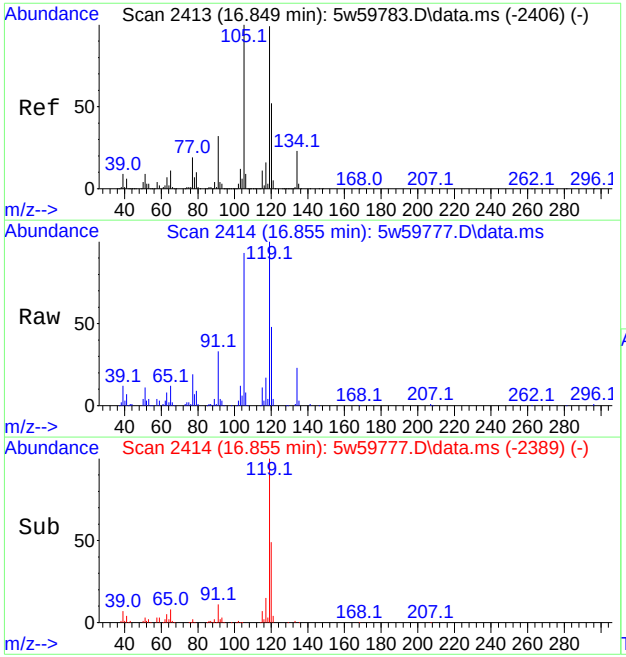


#100
sec-BUTYLBENZENE
Concen: 0.34 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 28746

Ion	Ratio	Lower	Upper
134	100		
105	570.2	502.5	562.5#

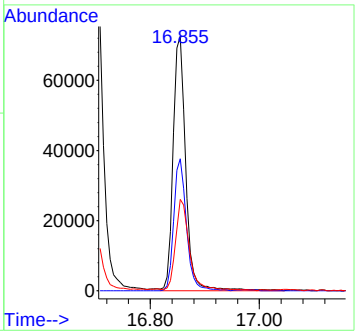


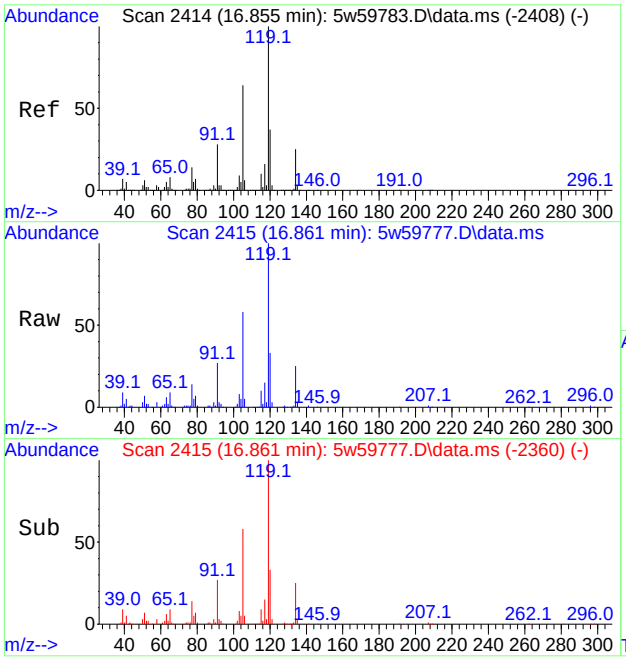


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 117540

Ion	Ratio	Lower	Upper
105	100		
120	51.6	23.5	83.5
91	39.7	7.4	67.4

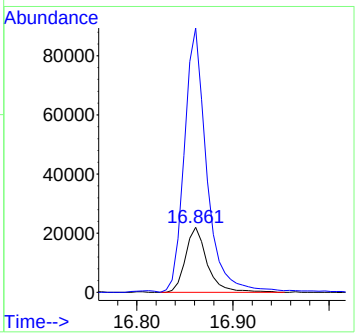


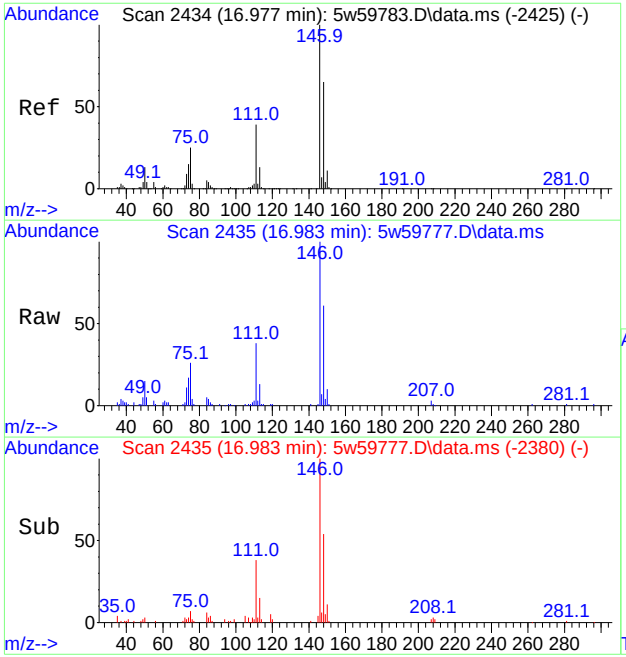


#102
p-ISOPROPYLTOLUENE
Concen: 0.35 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 34620

Ion	Ratio	Lower	Upper
134	100		
119	423.3	377.7	437.7

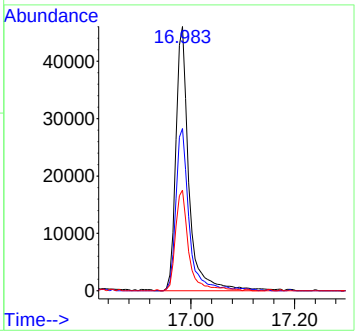


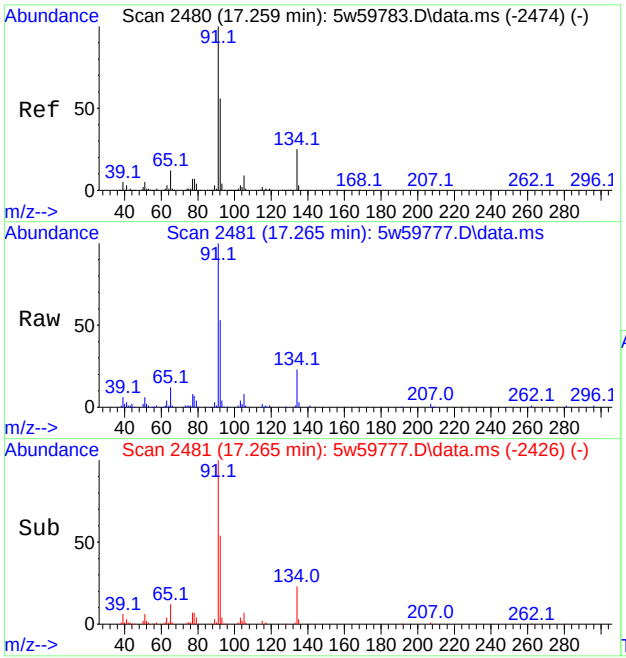


#103
o-DICHLOROBENZENE
Concen: 0.35 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 81336

Ion	Ratio	Lower	Upper
146	100		
148	61.4	34.3	94.3
111	38.4	9.2	69.2

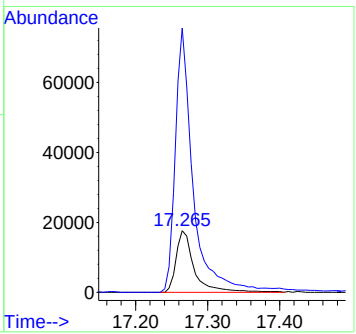


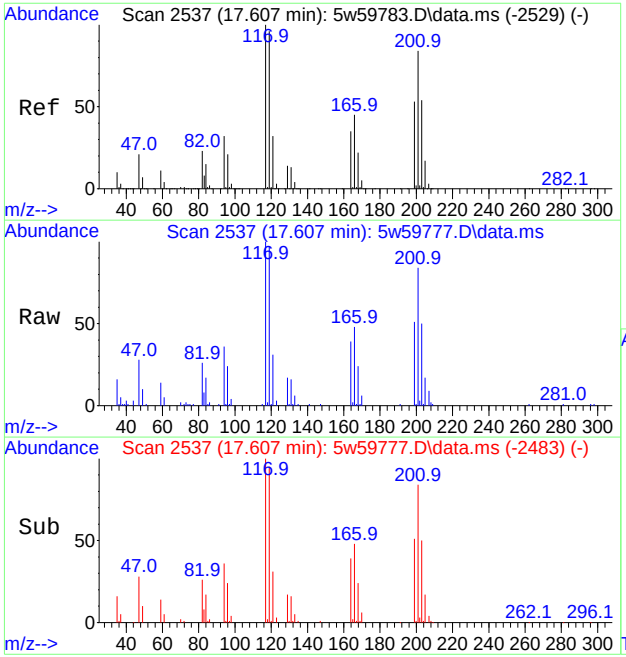


#104
n-BUTYLBENZENE
Concen: 0.32 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 31100

Ion	Ratio	Lower	Upper
134	100		
91	433.4	363.1	423.1#

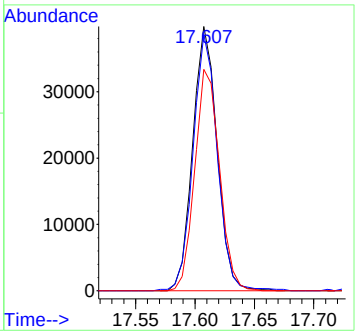


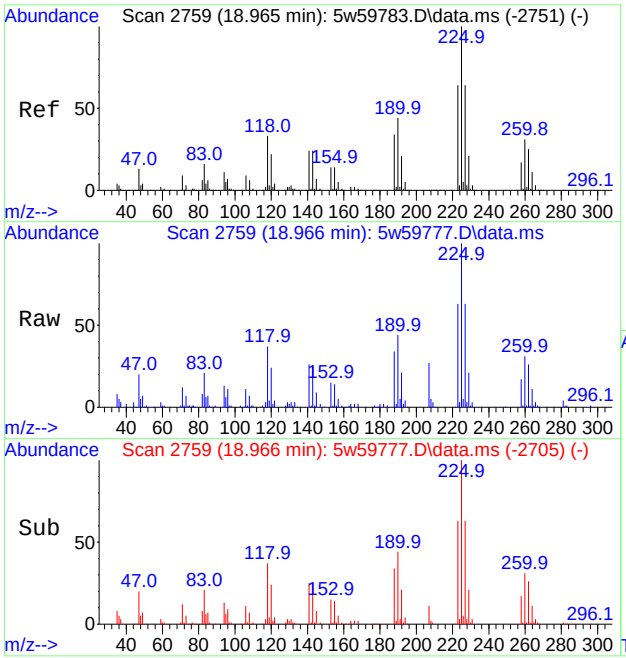


#105
HEXACHLOROETHANE
Concen: 0.36 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 56860

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	84.8	61.1	113.5

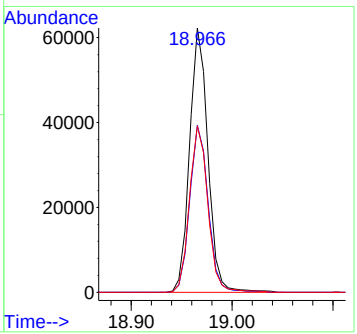


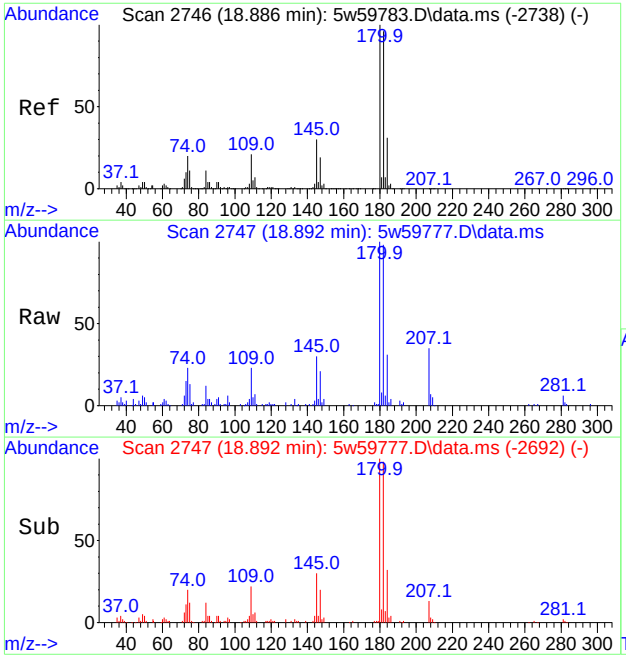


#106
HEXACHLOROBUTADIENE
Concen: 0.35 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:225 Resp: 78824

Ion	Ratio	Lower	Upper
225	100		
227	63.7	34.2	94.2
223	63.4	33.3	93.3

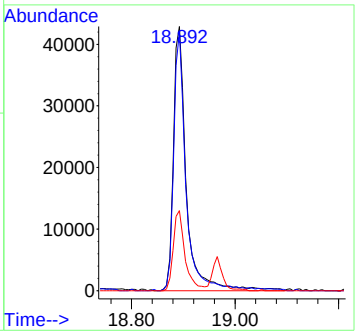


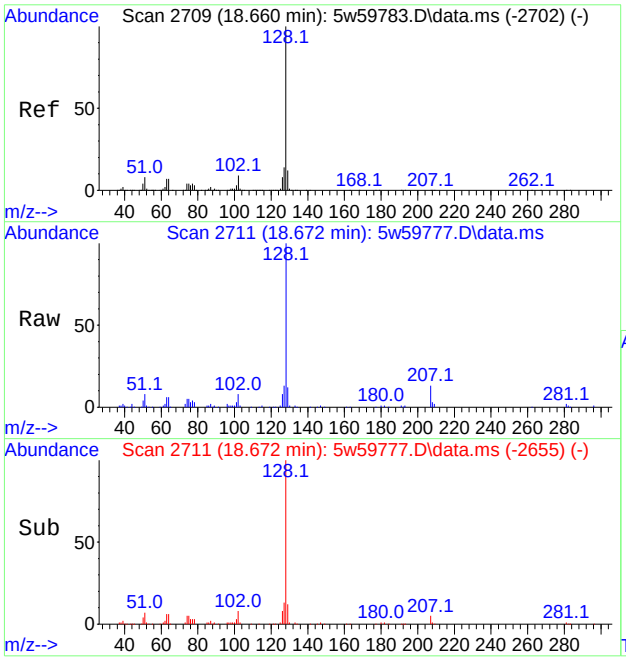


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.33 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:180 Resp: 74442

Ion	Ratio	Lower	Upper
180	100		
182	94.6	65.4	125.4
145	27.7	0.0	59.4

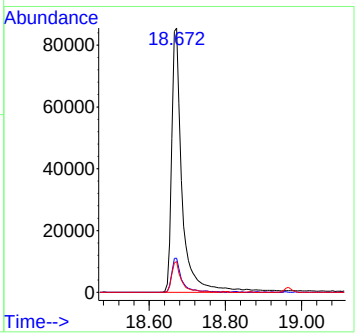


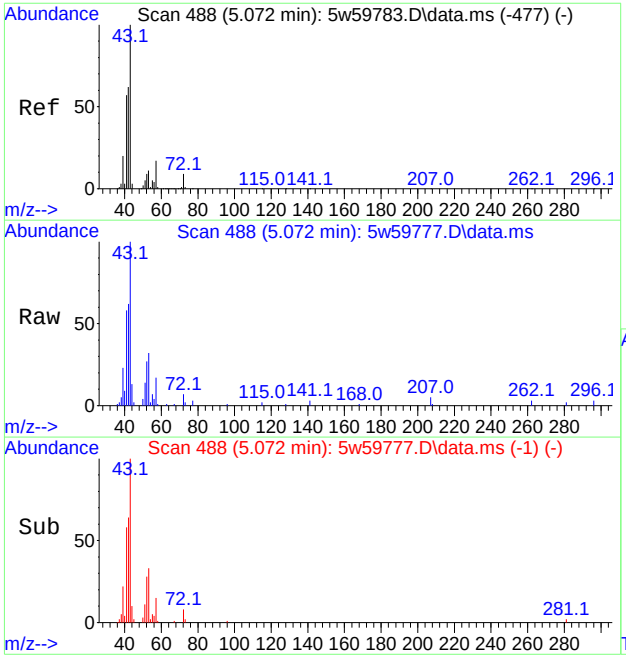


#108
NAPHTHALENE
Concen: 0.33 PPBV
RT: 18.672 min Scan# 2711
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:128 Resp: 165689

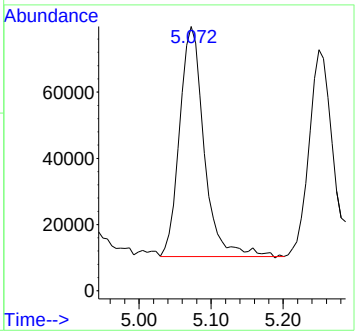
Ion	Ratio	Lower	Upper
128	100		
127	12.3	0.0	43.3
129	10.7	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:TIC Resp: 163703



7.7.4

7

Manual Integration Approval Summary

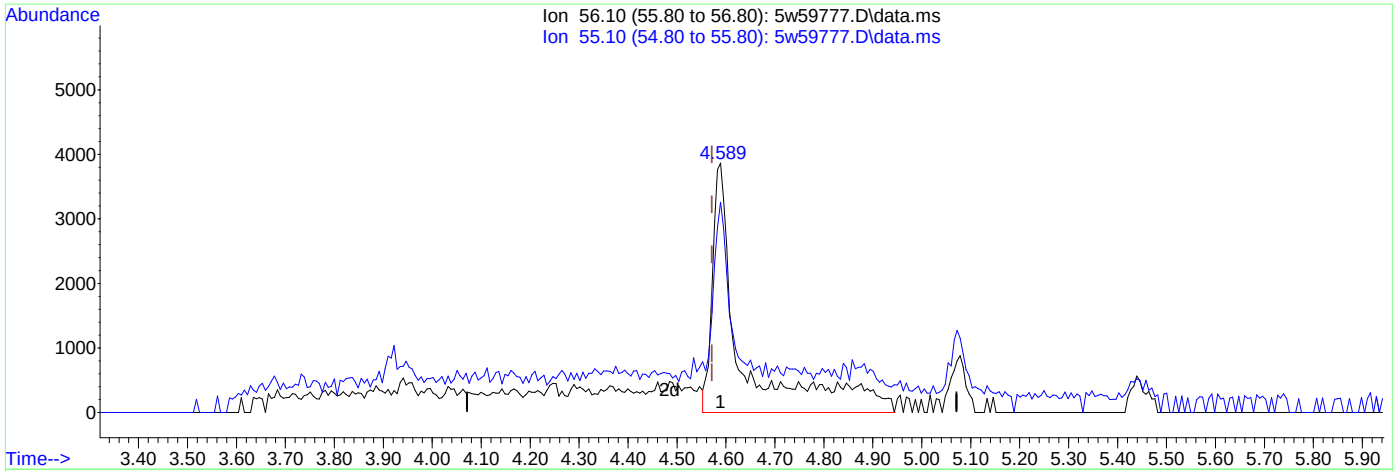
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59777.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 03:41 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

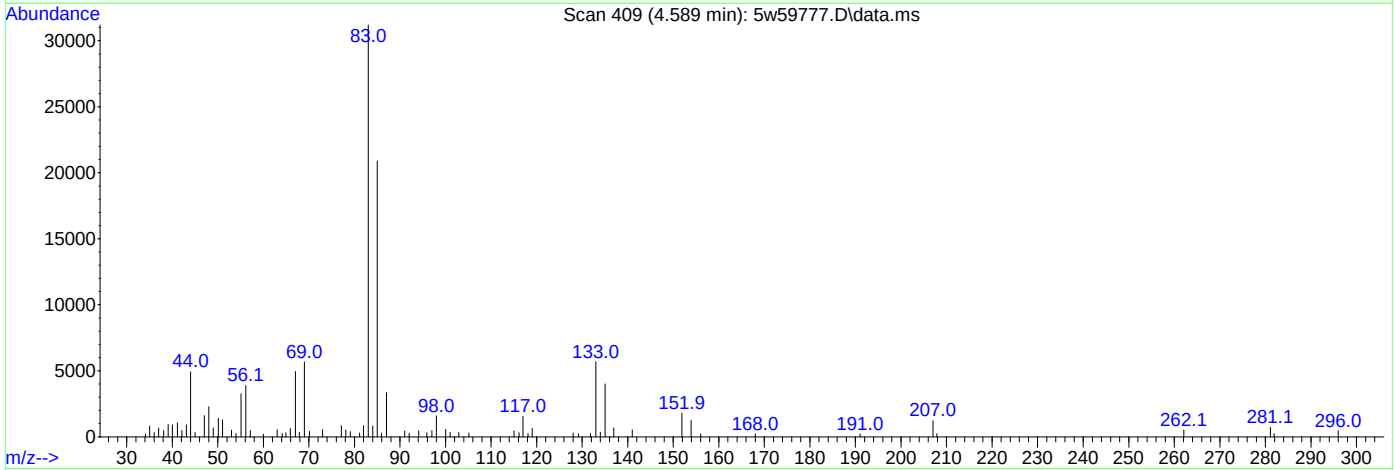
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.59	Poor instrument integration
Freon 123	306-83-2		4.59	Poor instrument integration
Methyl Acrylate	96-33-3		7.45	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.63PPBV

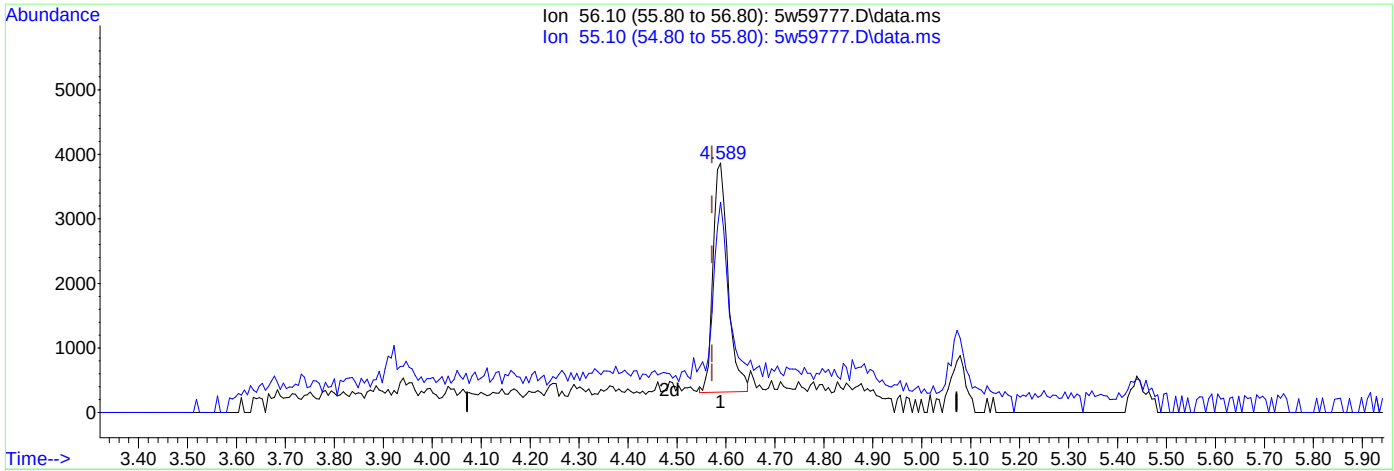
response 15953

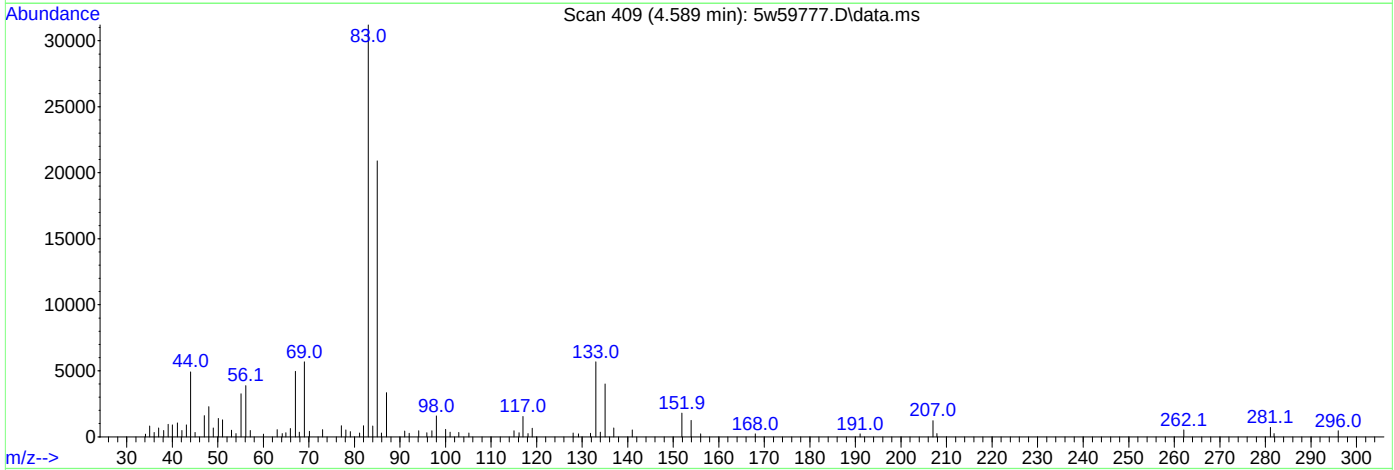
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	37.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.30PPBV m

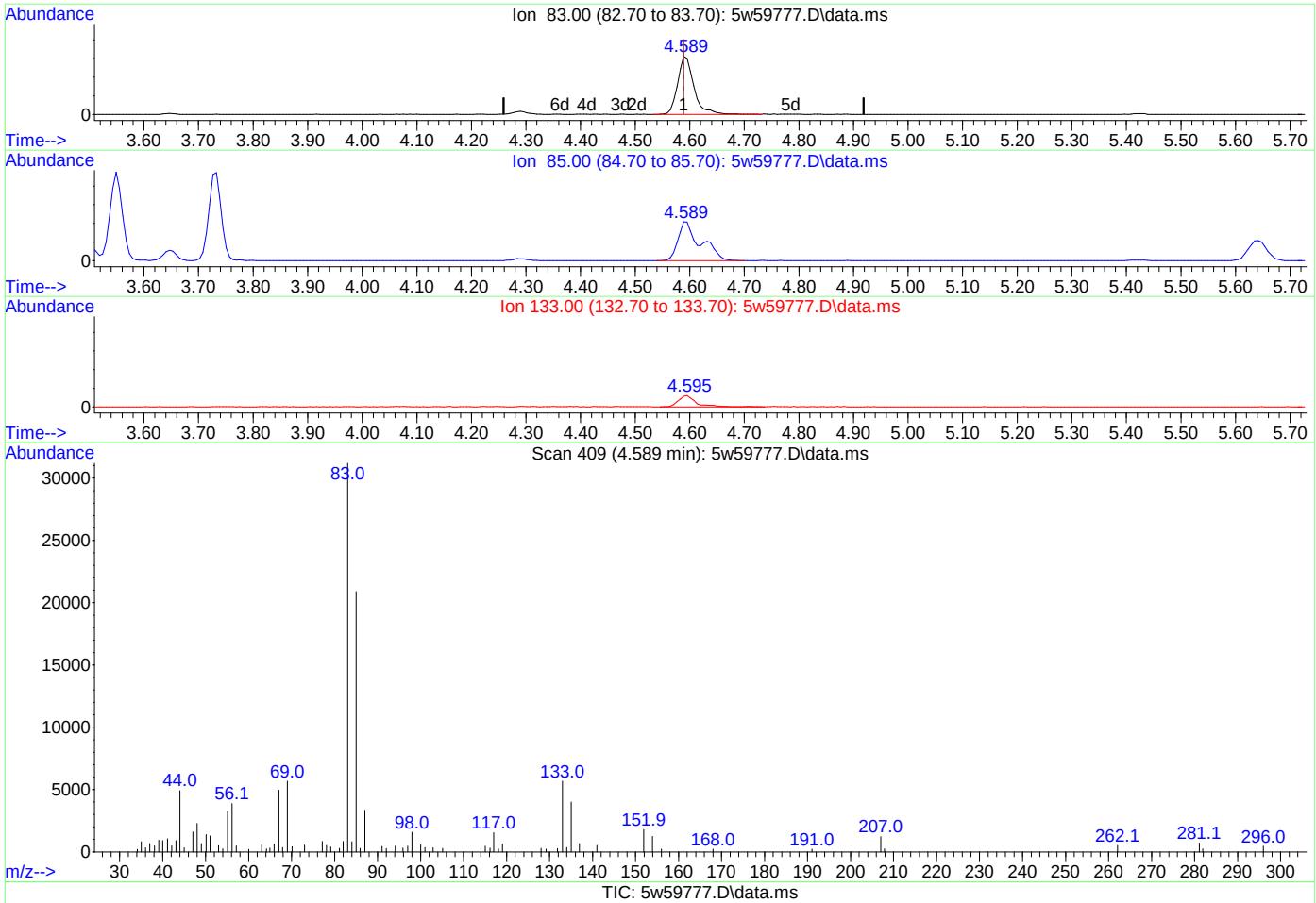
response 7542

Ion	Exp%	Act%
56.10	100	100
55.10	66.60	78.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV

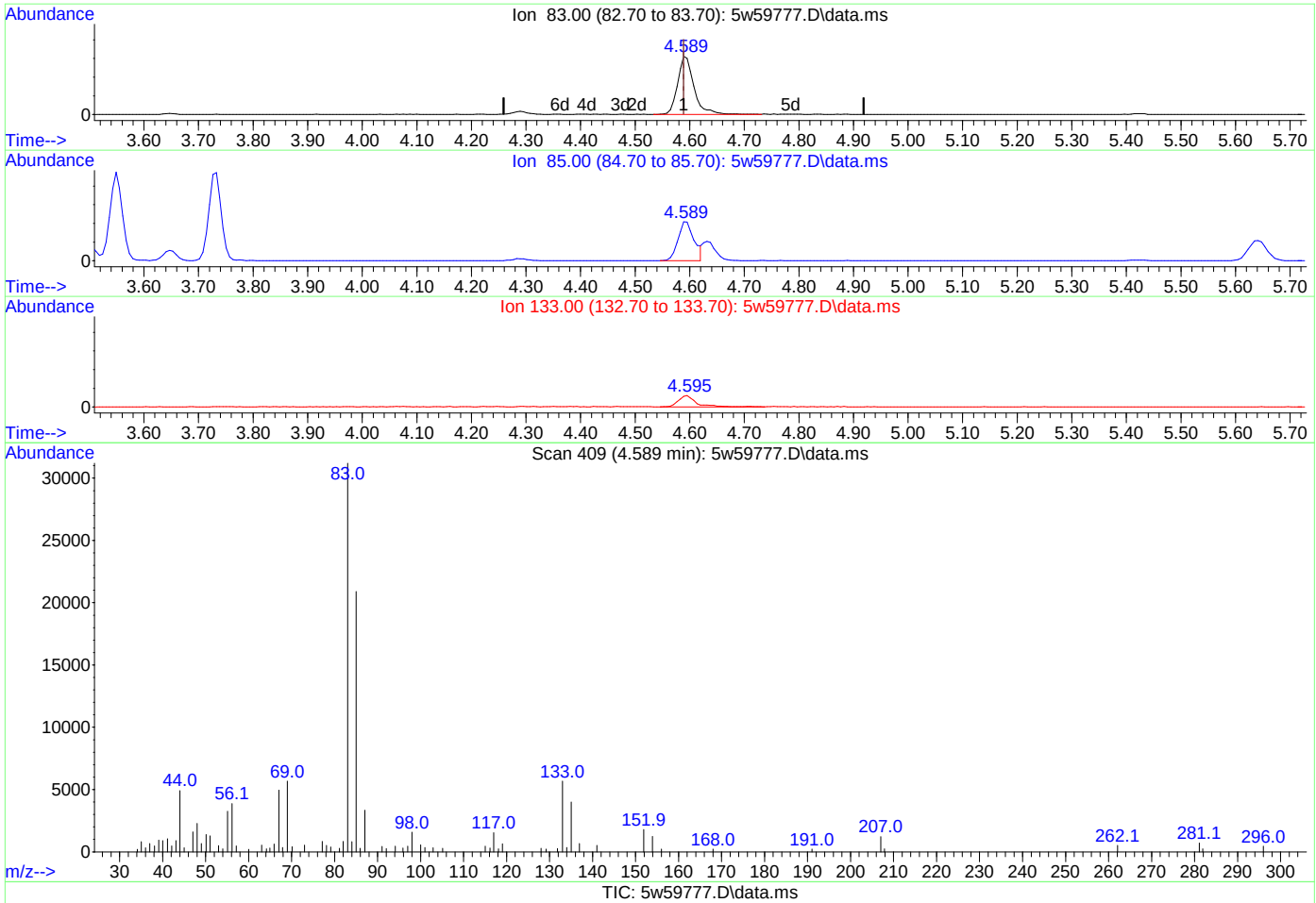
response 65470

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	91.44
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV m

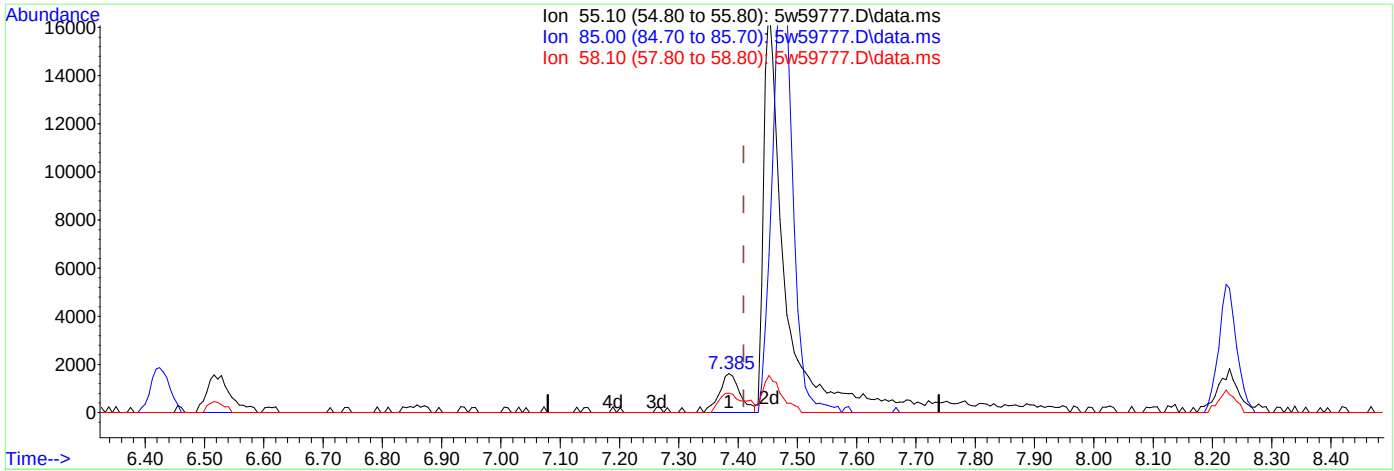
response 65470

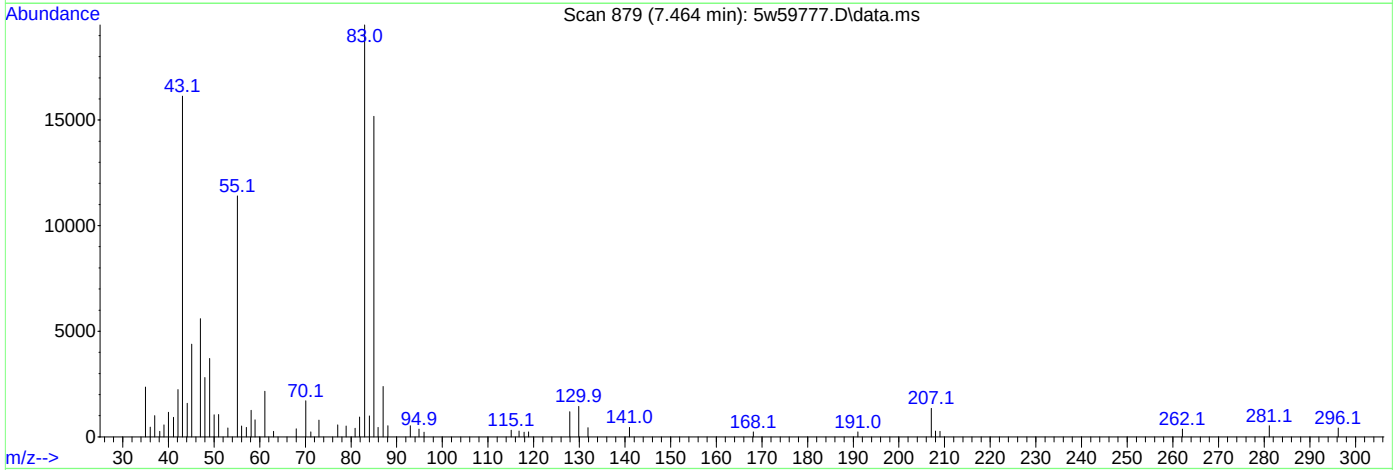
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.82
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.03PPBV

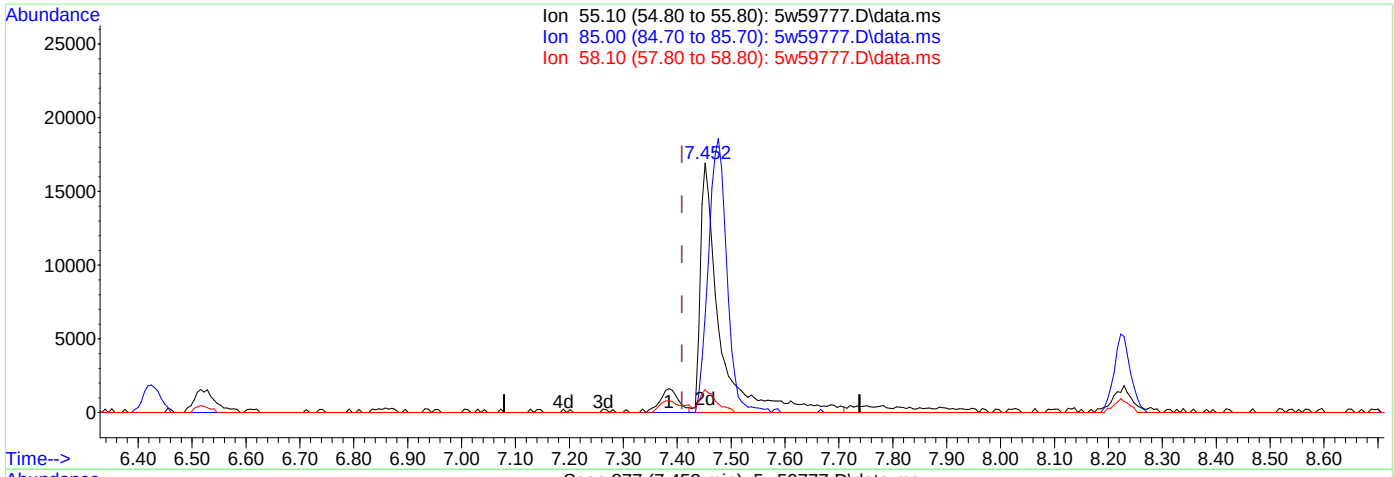
response 4031

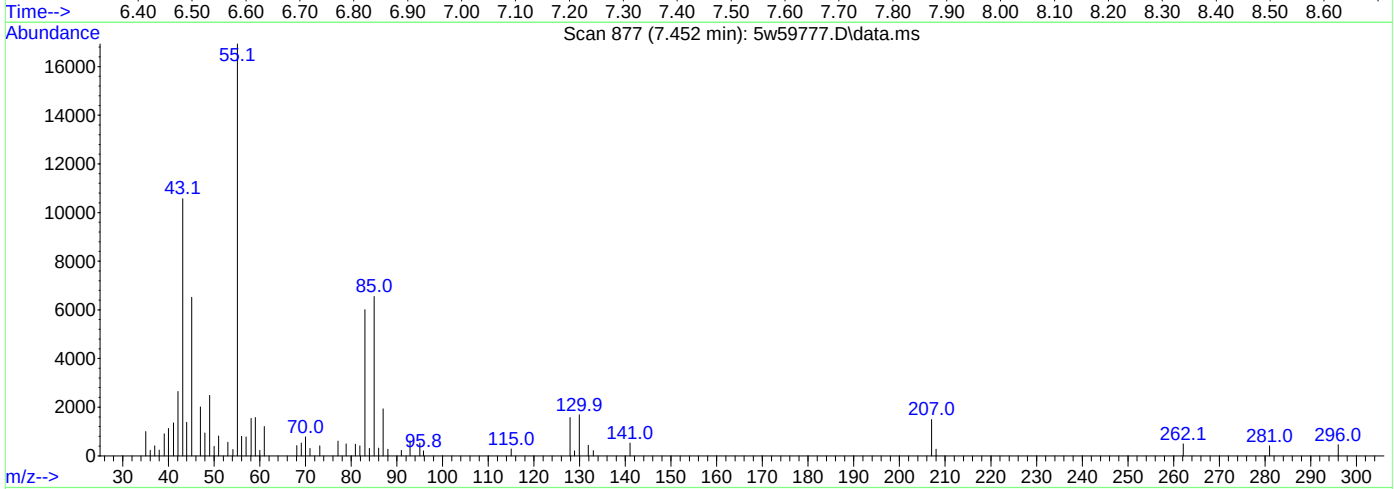
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	63.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.452min (+0.043) 0.30PPBV m

response 42153

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	6.03#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	462457	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2061895	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1060612	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	463168	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1407517	10.67	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.70%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	208779	4.00	PPBV	100
3) FREON 152A	3.445	65	155544	4.45	PPBV	99
4) CHLORODIFLUOROMETHANE	3.482	67	78206	4.97	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	379587	5.00	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	728724	4.91	PPBV	99
7) PROPYLENE	3.500	41	173008	4.61	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	566971	4.38	PPBV	99
9) FREON 114	3.733	85	711067	5.56	PPBV	99
10) CHLOROMETHANE	3.665	52	72544	4.72	PPBV	94
11) VINYL CHLORIDE	3.818	62	241017	4.89	PPBV	100
12) 1,3-BUTADIENE	3.916	54	147915	4.60	PPBV	99
13) n-BUTANE	3.947	43	235159	4.12	PPBV	98
14) BROMOMETHANE	4.106	94	254496	5.13	PPBV	99
15) CHLOROETHANE	4.228	64	109032	4.83	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	519301	4.56	PPBV	100
17) ACETONITRILE	4.485	41	129687	3.95	PPBV	100
18) ACROLEIN	4.577	56	83602	4.77	PPBV	95
19) FREON 123	4.595	83	601219m	5.20	PPBV	
20) FREON 123A	4.638	117	365750	5.13	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.797	101	638121	4.08	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	477900	4.35	PPBV	98
23) ACETONE	4.681	58	90961	4.50	PPBV	95
24) PENTANE	5.079	42	223509	3.74	PPBV	99
25) IODOMETHANE	5.256	142	791555	5.20	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	251542	4.66	PPBV	99
27) CARBON DISULFIDE	5.672	76	690855	4.87	PPBV	100
28) ETHANOL	4.320	45	86798	4.05	PPBV	100
29) BROMOETHENE	4.485	106	258283	5.39	PPBV	100
30) ACRYLONITRILE	5.048	52	155799	4.59	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	220204	4.55	PPBV	99
32) 3-CHLOROPROPENE	5.525	76	110268	4.99	PPBV	99
33) FREON 113	5.641	151	441351	4.66	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	257488	4.68	PPBV	97
35) TERTIARY BUTYL ALCOHOL	5.384	59	498869	4.44	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.486	73	676684	5.04	PPBV	100
37) TETRAHYDROFURAN	7.868	72	99619	5.53	PPBV	100
38) HEXANE	7.385	57	379941	5.02	PPBV	99
39) VINYL ACETATE	6.571	86	40455	4.63	PPBV	96
40) 1,1-DICHLOROETHANE	6.424	63	482232	4.85	PPBV	99
41) METHYL ETHYL KETONE	6.804	72	108805	5.80	PPBV	98
42) cis-1,2-DICHLOROETHYLENE	7.201	96	269410	4.74	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	116383	5.65	PPBV	97
44) ETHYL ACETATE	7.428	61	87258m	5.60	PPBV	
45) METHYL ACRYLATE	7.409	55	471994	5.35	PPBV	99
46) CHLOROFORM	7.477	83	570969	4.95	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	444023	5.08	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	592452	4.75	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	658939	4.82	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	401494	4.97	PPBV		100
52)	BENZENE	8.853	78	741517	5.39	PPBV		100
53)	CYCLOHEXANE	9.110	84	297316	5.48	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.349	71	144492	5.25	PPBV		97
55)	TRICHLOROETHYLENE	9.887	95	369372	5.01	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	300591	5.12	PPBV		100
57)	DIBROMOMETHANE	9.630	174	391164	4.83	PPBV		99
58)	ETHYL ACRYLATE	9.685	55	582502	5.68	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	653402	5.05	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.912	57	1206122	5.26	PPBV		100
61)	1,4-DIOXANE	9.912	88	168473	5.89	PPBV	#	8
62)	HEPTANE	10.187	43	406924	4.93	PPBV		99
63)	METHYL METHACRYLATE	10.113	69	247000	5.84	PPBV		97
64)	METHYL ISOBUTYL KETONE	10.799	58	240795	5.60	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	10.750	75	494703	5.47	PPBV		86
66)	TOLUENE	11.722	92	547474	5.55	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	446082m	5.43	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	434584	5.29	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	301561	5.53	PPBV		99
71)	2-HEXANONE	12.022	58	344921	6.43	PPBV		99
72)	ETHYL METHACRYLATE	12.028	69	445397	6.46	PPBV		97
73)	TETRACHLOROETHYLENE	12.872	164	427336	5.33	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	728217	5.41	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	595110	5.98	PPBV		100
76)	OCTANE	12.744	43	576898	5.29	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	463451	5.26	PPBV		99
78)	CHLOROBENZENE	13.582	112	750075	5.17	PPBV		98
79)	ETHYLBENZENE	13.986	91	1198151	5.80	PPBV		100
80)	m,p-XYLENE	14.182	106	943241	11.83	PPBV		99
81)	o-XYLENE	14.677	106	456348	6.21	PPBV		100
82)	STYRENE	14.573	104	711140	6.37	PPBV		100
83)	NONANE	14.934	43	586796	5.44	PPBV		99
84)	BROMOFORM	14.249	173	765790	5.54	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	804240	6.16	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	563086	5.21	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	1351649	5.60	PPBV		100
89)	BROMOBENZENE	15.375	77	663458	5.25	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	351599	5.42	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	357322	5.54	PPBV		99
92)	4-ETHYLTOLUENE	15.962	105	1362882	6.29	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	1159491	5.77	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	573224	5.89	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	250823	6.02	PPBV		96
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	1191915	6.18	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	871935	5.56	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	1137176	6.44	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	878264	5.40	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	309649	5.79	PPBV		97
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	1209627	5.87	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	367882	6.01	PPBV		96
103)	o-DICHLOROBENZENE	16.977	146	831952	5.25	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	353476	6.27	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	597723	5.71	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	827665	5.13	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	807736	7.16	PPBV		100
108)	NAPHTHALENE	18.660	128	1912544	7.30	PPBV		99
110)	TVHC as equiv Pentane	5.072	TIC	1469674	4.29	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

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

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

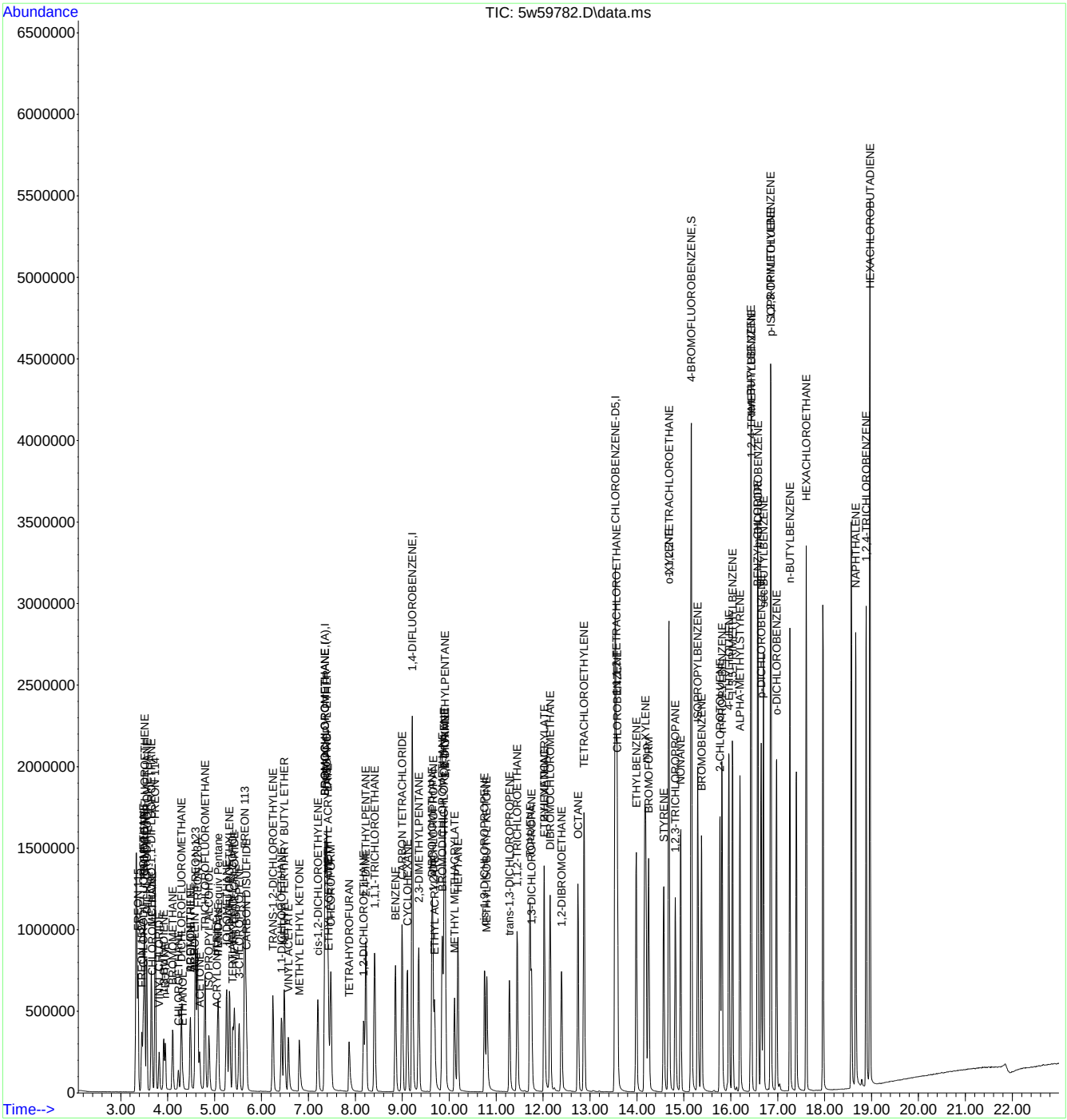
7.7.5

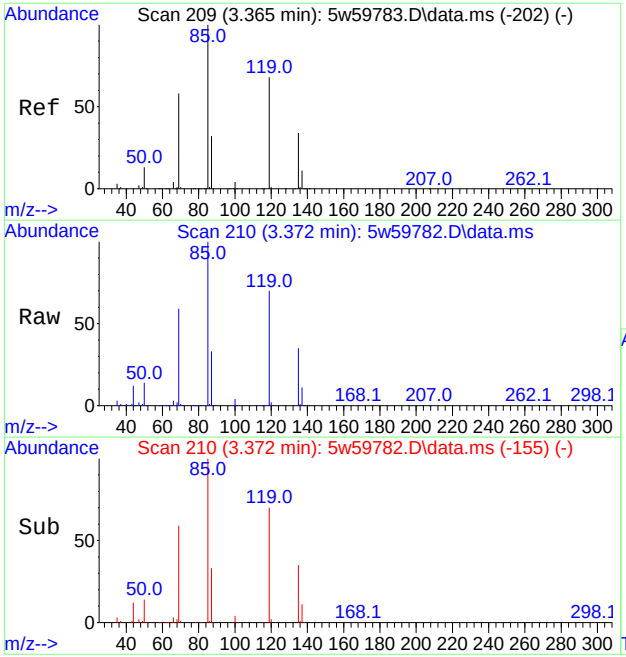
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

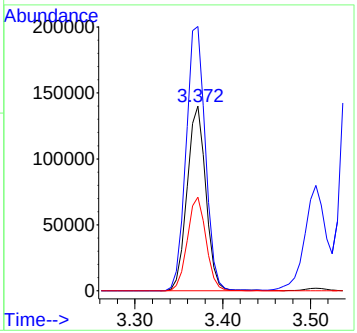


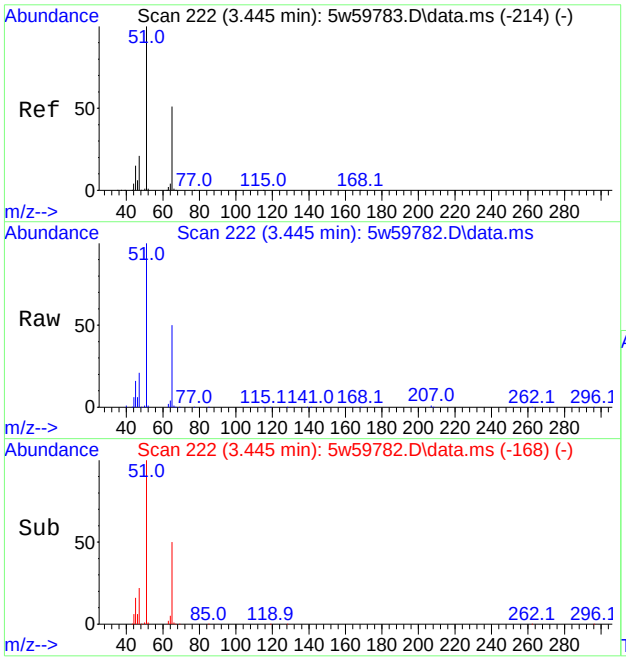


#2
FREON 115
Concen: 4.00 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:119 Resp: 208779

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.6	20.6	80.6

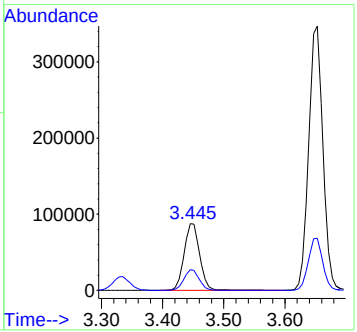


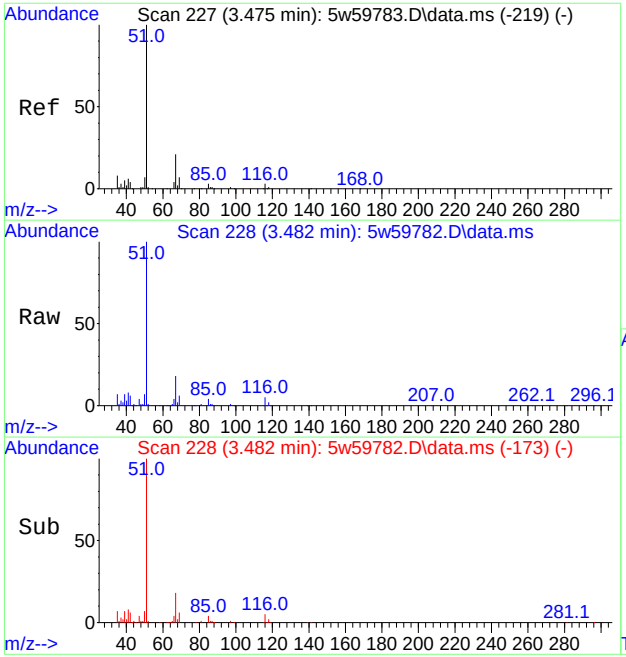


#3
FREON 152A
Concen: 4.45 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 155544

Ion	Ratio	Lower	Upper
65	100		
45	30.4	0.0	60.0

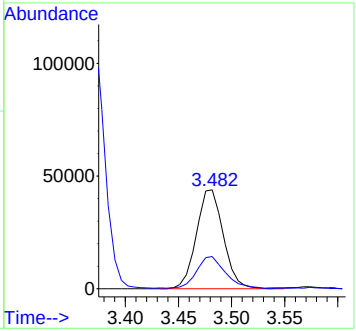


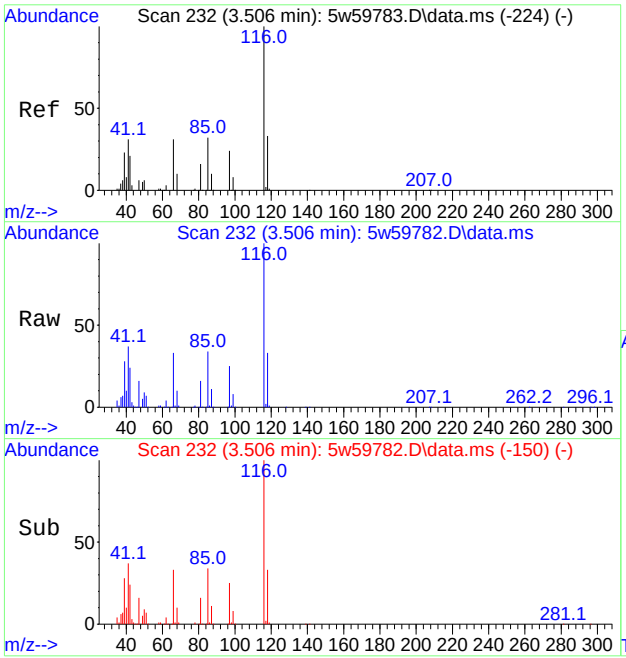


#4
CHLORODIFLUOROMETHANE
Concen: 4.97 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 78206

Ion	Ratio	Lower	Upper
67	100		
69	32.7	1.0	61.0

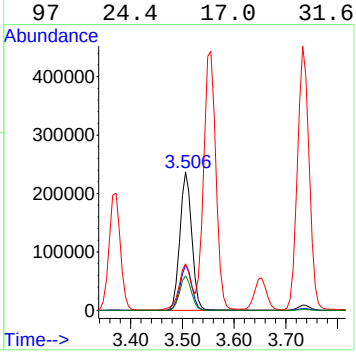


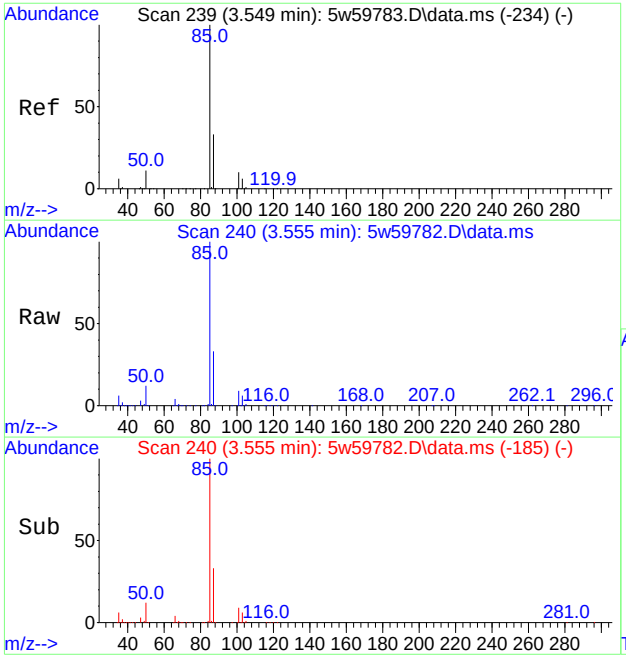


#5
CHLOROTRIFLUOROETHENE
Concen: 5.00 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:116 Resp: 379587

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.9	42.5
85	35.3	23.7	44.1
97	24.4	17.0	31.6

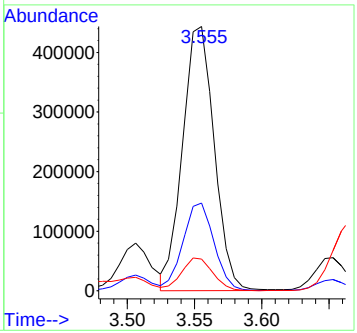


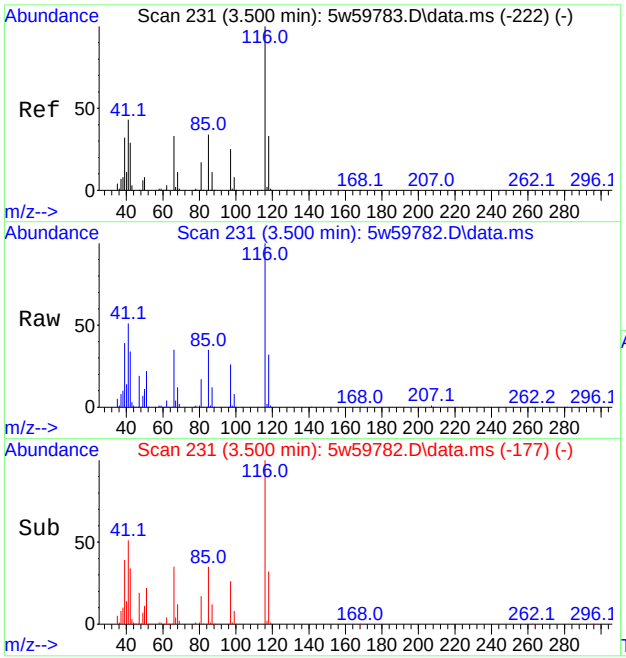


#6
DICHLORODIFLUOROMETHANE
Concen: 4.91 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 728724

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	12.3	0.0	41.7

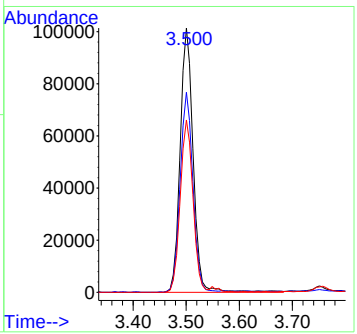


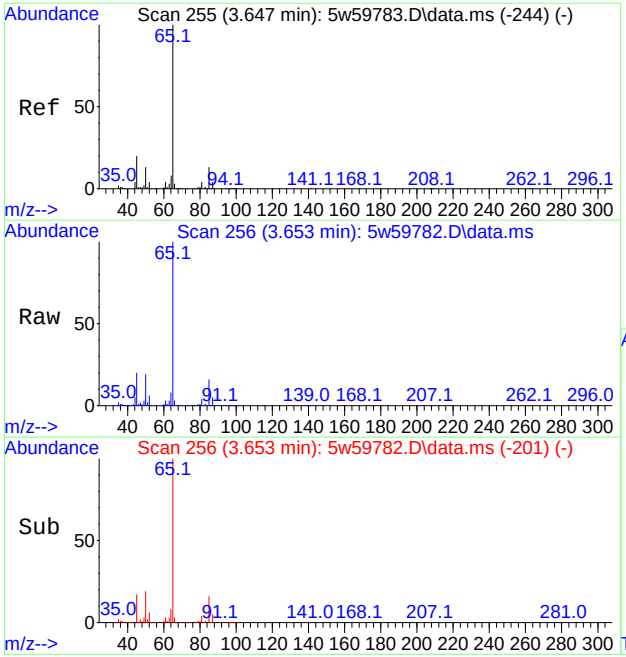


#7
PROPYLENE
Concen: 4.61 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 173008

Ion	Ratio	Lower	Upper
41	100		
39	77.1	45.1	105.1
42	63.7	36.3	96.3

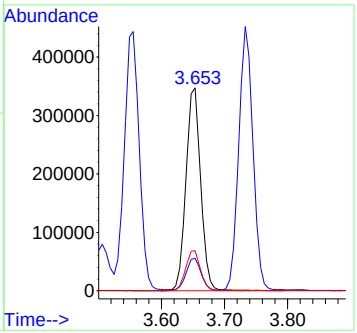


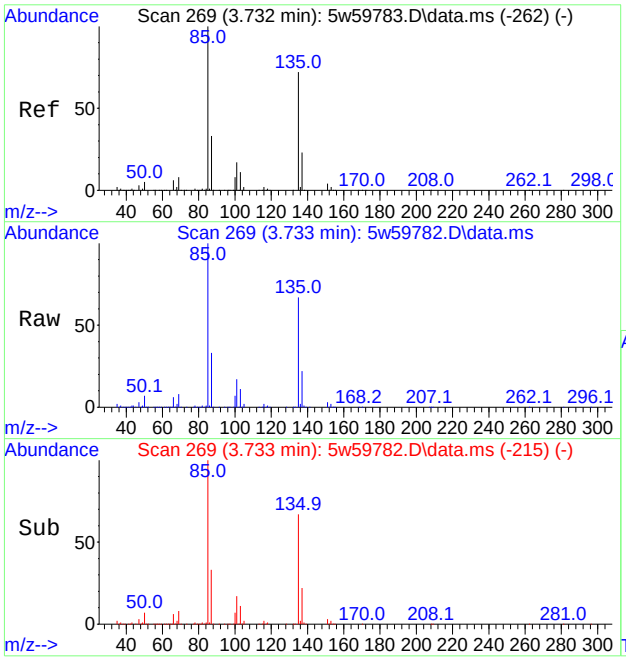


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 4.38 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 566971

Ion	Ratio	Lower	Upper
65	100		
85	16.1	11.5	21.3
45	20.3	14.0	26.0

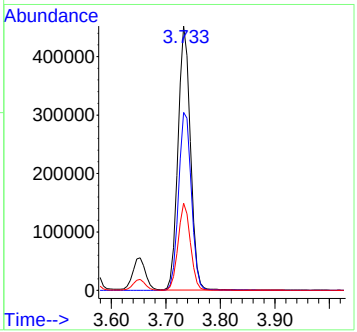


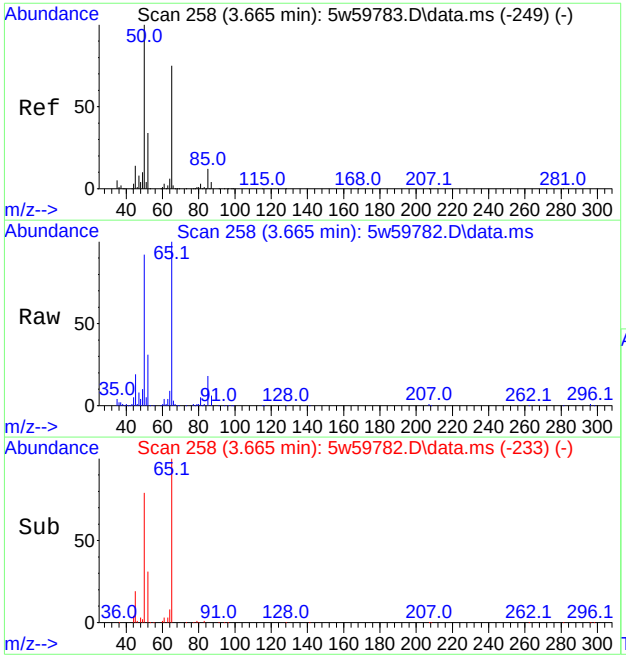


#9
FREON 114
Concen: 5.56 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 711067

Ion	Ratio	Lower	Upper
85	100		
135	69.7	40.5	100.5
87	32.8	3.0	63.0

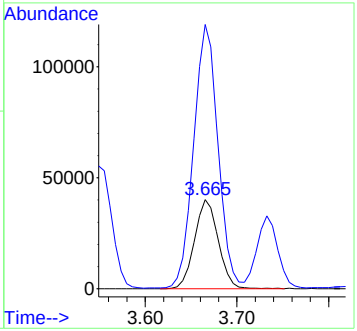


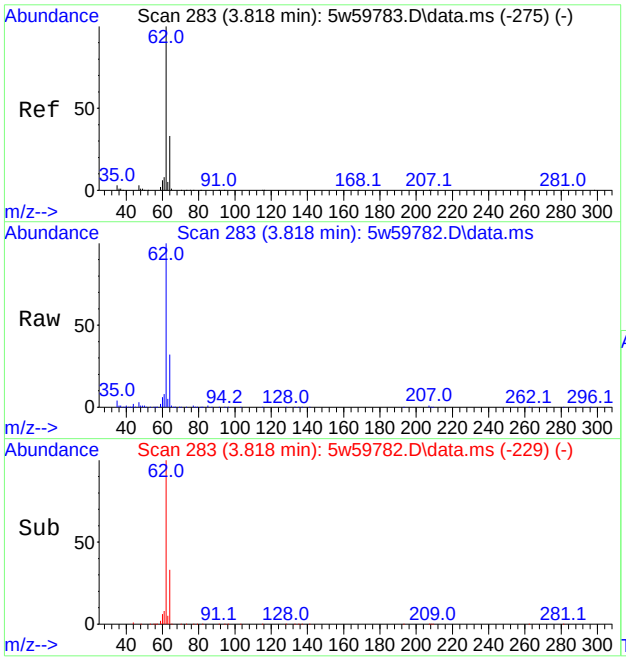


#10
CHLOROMETHANE
Concen: 4.72 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 72544

Ion	Ratio	Lower	Upper
52	100		
50	285.9	267.9	327.9

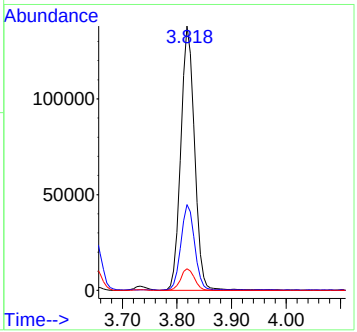


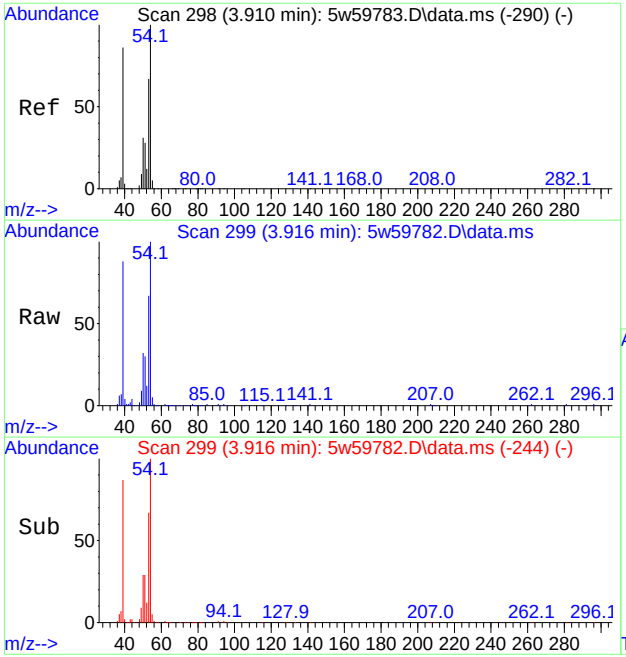


#11
VINYL CHLORIDE
Concen: 4.89 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 241017

Ion	Ratio	Lower	Upper
62	100		
64	33.5	3.6	63.6
61	8.2	0.0	38.2

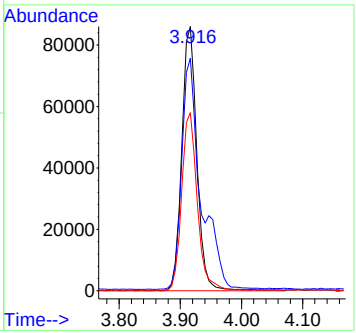


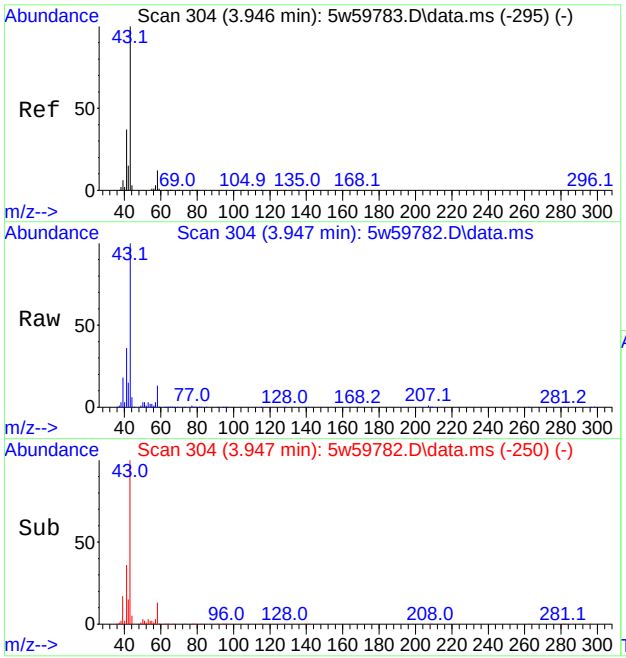


#12
1,3-BUTADIENE
Concen: 4.60 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 54 Resp: 147915

Ion	Ratio	Lower	Upper
54	100		
39	111.9	82.0	142.0
53	71.7	40.2	100.2

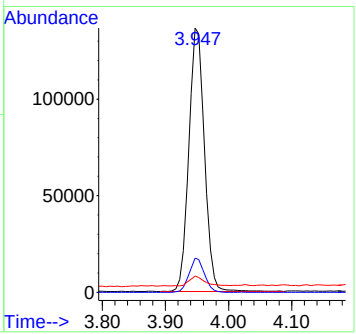


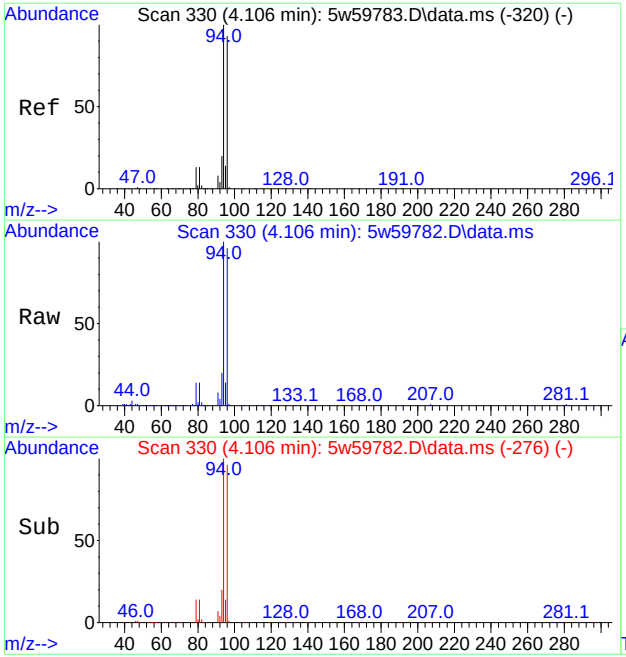


#13
n-BUTANE
Concen: 4.12 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 235159

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	6.5	0.0	34.9

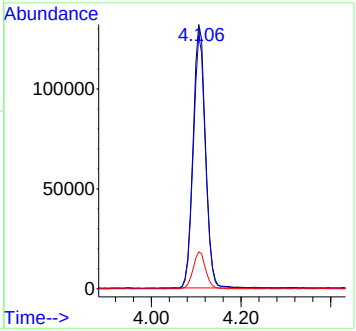


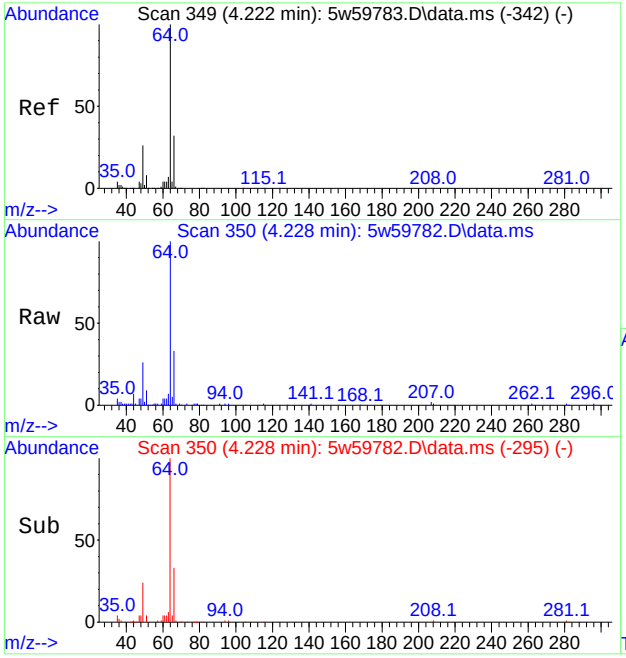


#14
BROMOMETHANE
Concen: 5.13 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 94 Resp: 254496

Ion	Ratio	Lower	Upper
94	100		
96	96.4	65.3	125.3
95	14.1	0.0	44.1

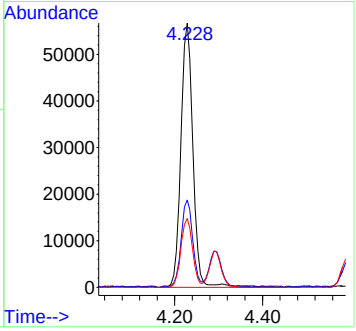


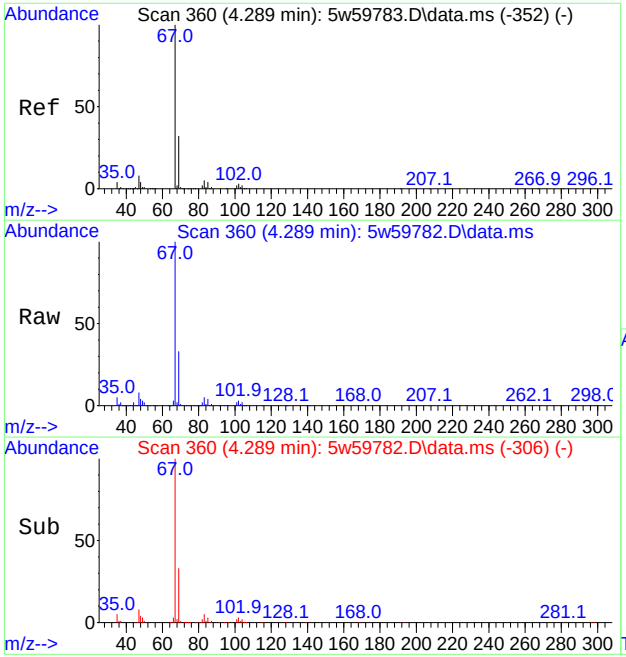


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 64 Resp: 109032

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

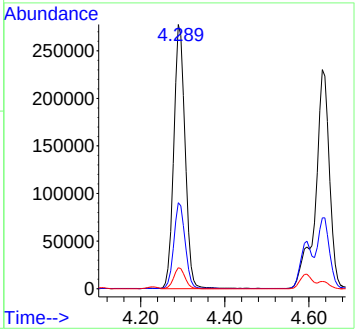


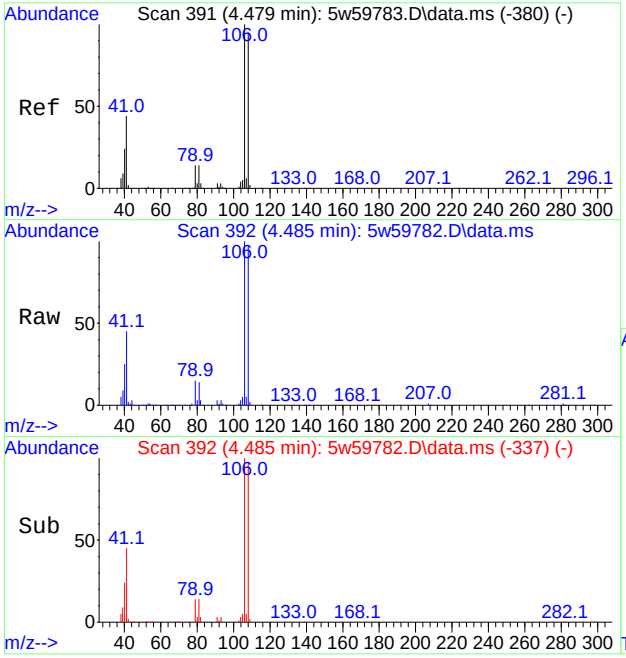


#16
DICHLOROFLUOROMETHANE
Concen: 4.56 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 519301

Ion	Ratio	Lower	Upper
67	100		
69	32.7	22.7	42.3
47	8.0	5.6	10.4

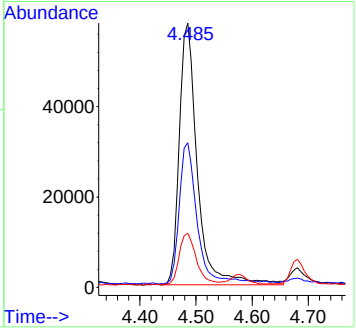


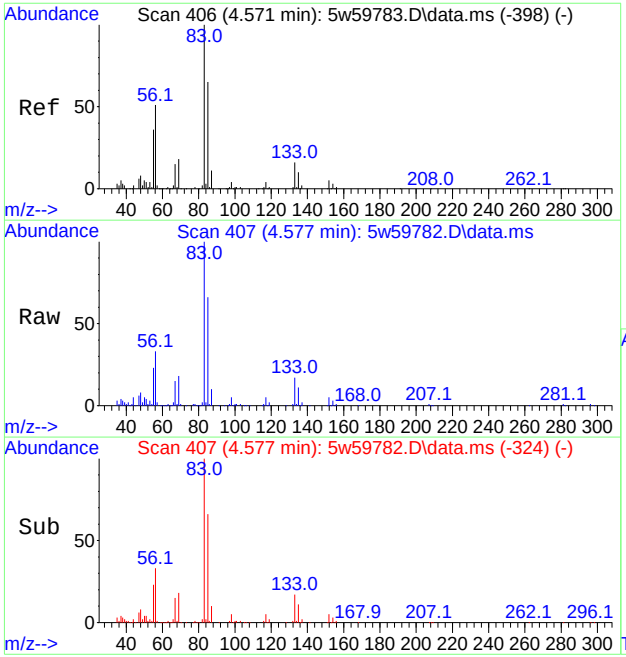


#17
ACETONITRILE
Concen: 3.95 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 129687

Ion	Ratio	Lower	Upper
41	100		
40	54.3	37.9	70.5
39	19.1	13.4	24.8

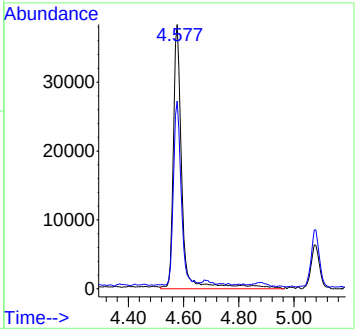


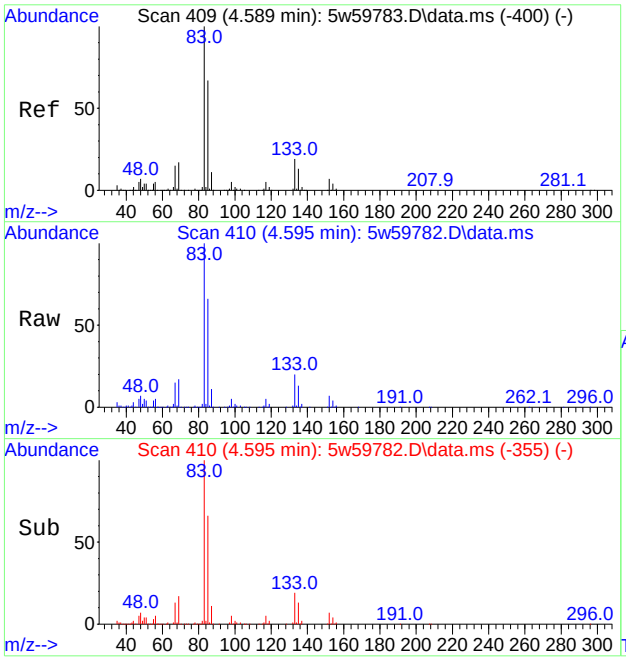


#18
ACROLEIN
Concen: 4.77 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 56 Resp: 83602

Ion	Ratio	Lower	Upper
56	100		
55	62.6	46.6	86.6

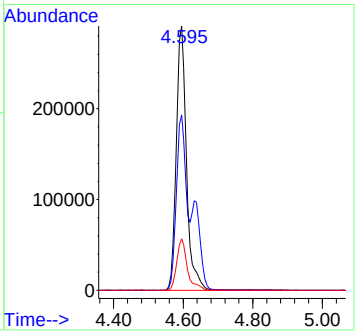


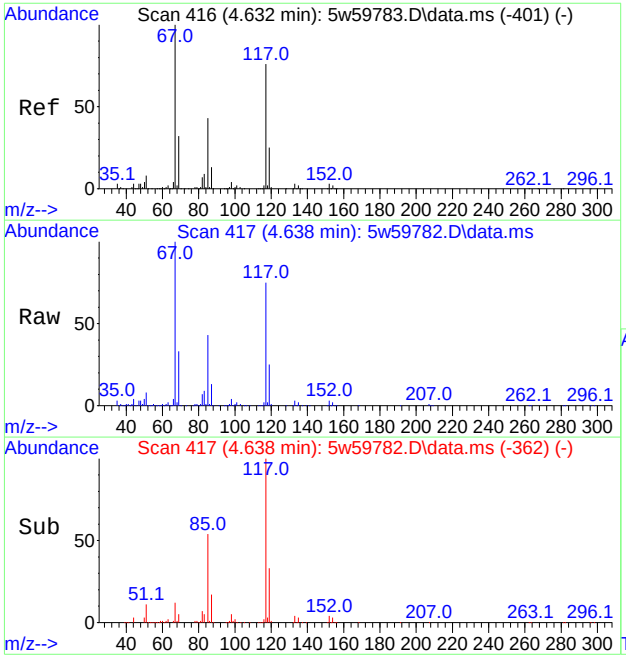


#19
FREON 123
Concen: 5.20 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 601219

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	20.5	0.0	50.7

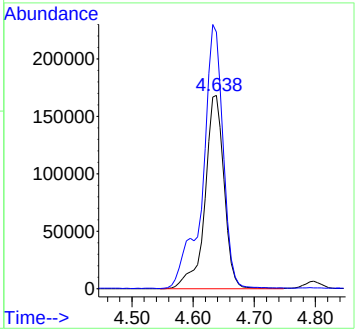


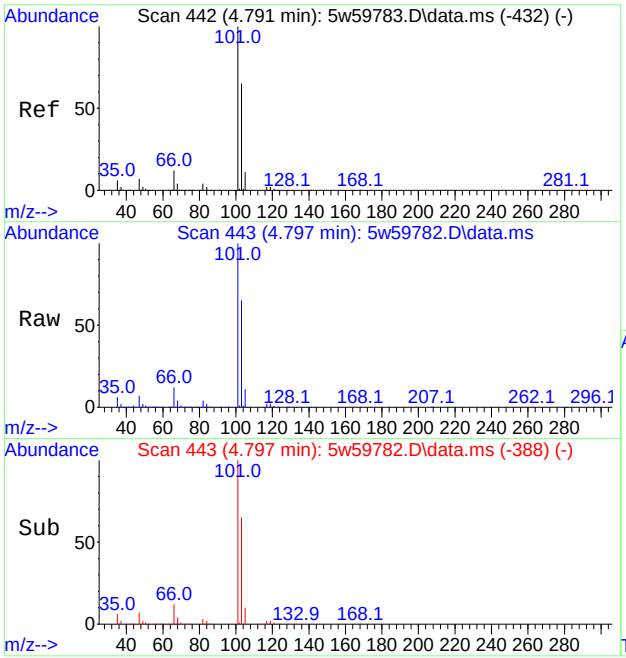


#20
FREON 123A
Concen: 5.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 365750

Ion	Ratio	Lower	Upper
117	100		
67	145.9	114.6	174.6

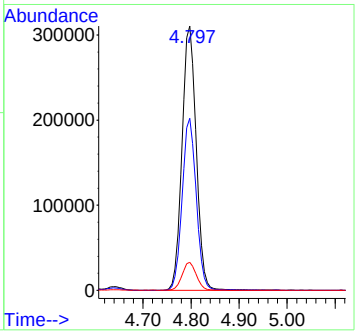


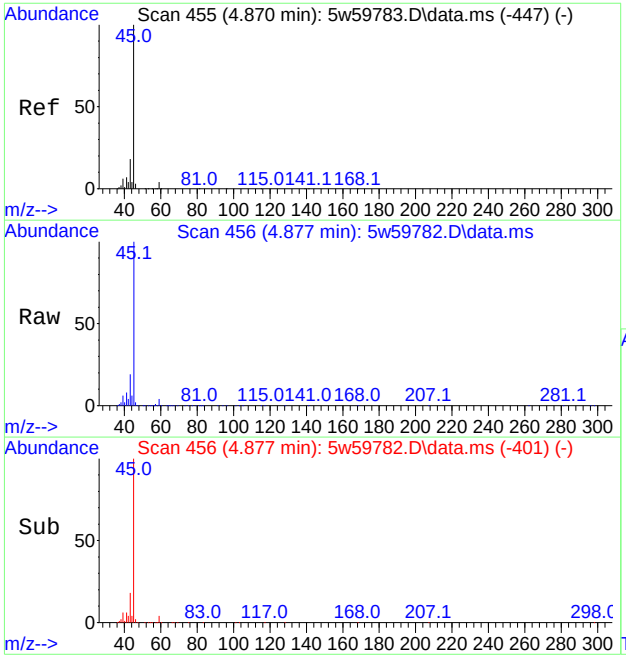


#21
TRICHLOROFLUOROMETHANE
Concen: 4.08 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:101 Resp: 638121

Ion	Ratio	Lower	Upper
101	100		
103	64.6	35.0	95.0
105	10.8	0.0	40.7

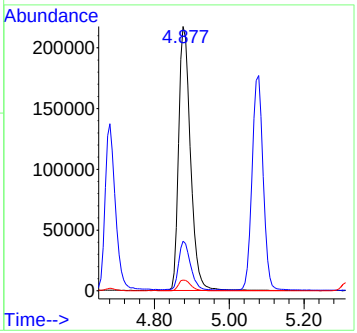


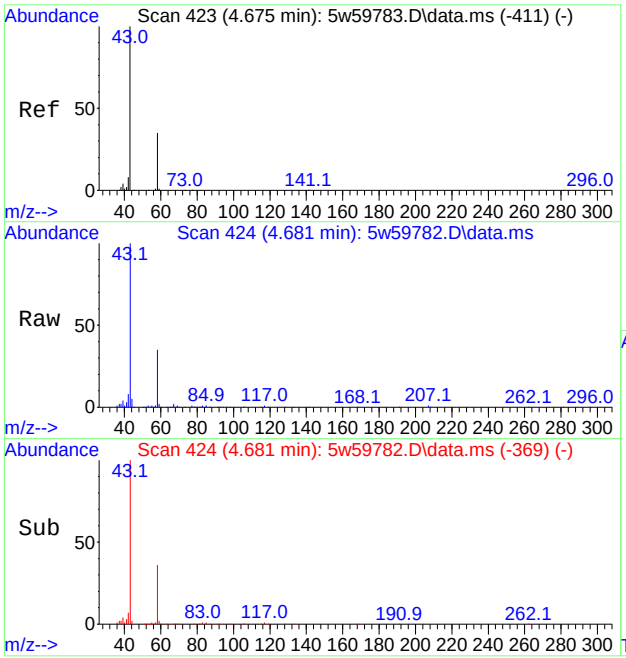


#22
ISOPROPYL ALCOHOL
Concen: 4.35 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 477900

Ion	Ratio	Lower	Upper
45	100		
43	18.8	0.0	47.8
59	4.1	0.0	34.1

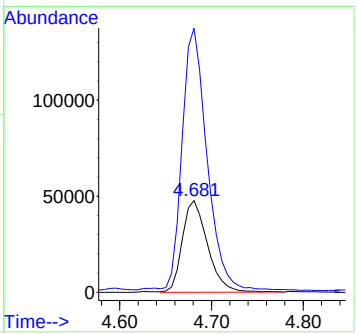


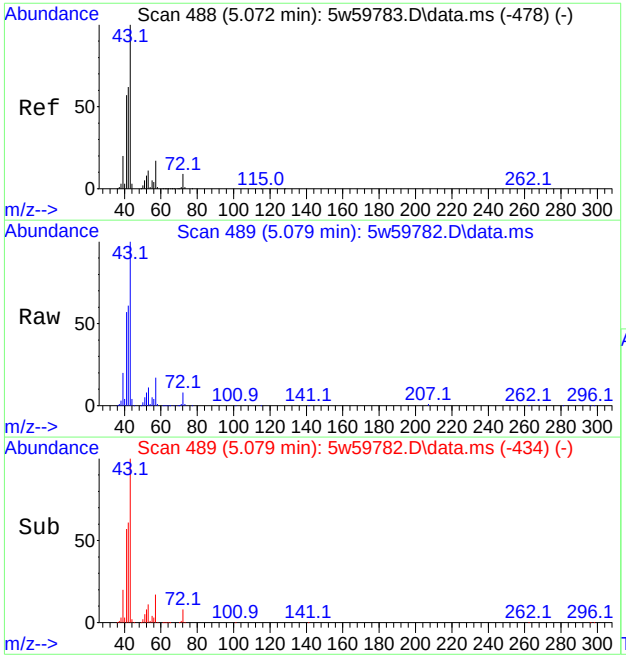


#23
ACETONE
Concen: 4.50 PPBV
RT: 4.681 min Scan# 424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 90961

Ion	Ratio	Lower	Upper
58	100		
43	290.9	252.3	312.3

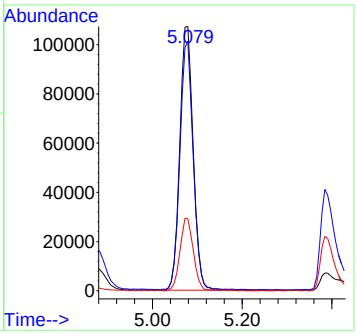


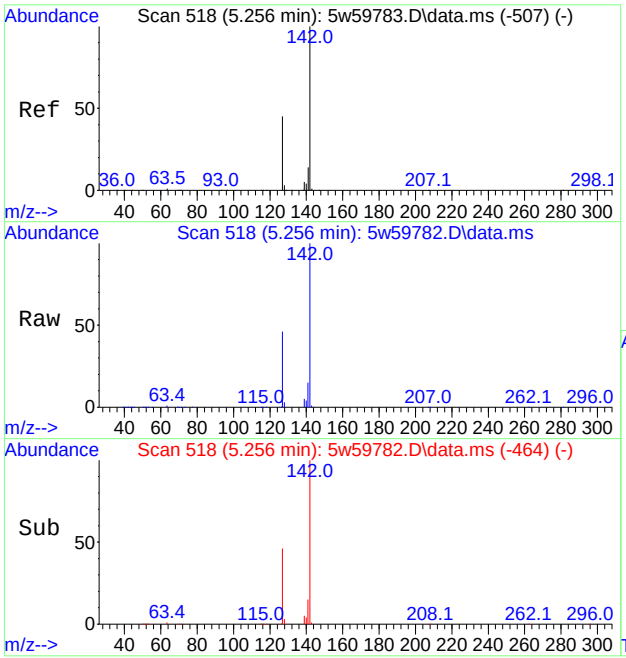


#24
PENTANE
Concen: 3.74 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 42 Resp: 223509

Ion	Ratio	Lower	Upper
42	100		
41	93.1	62.3	122.3
57	27.7	0.0	57.7

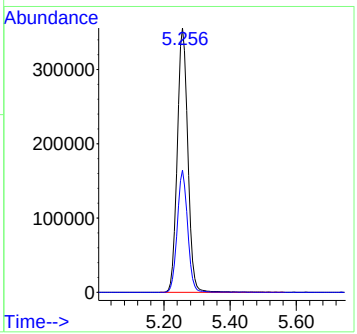


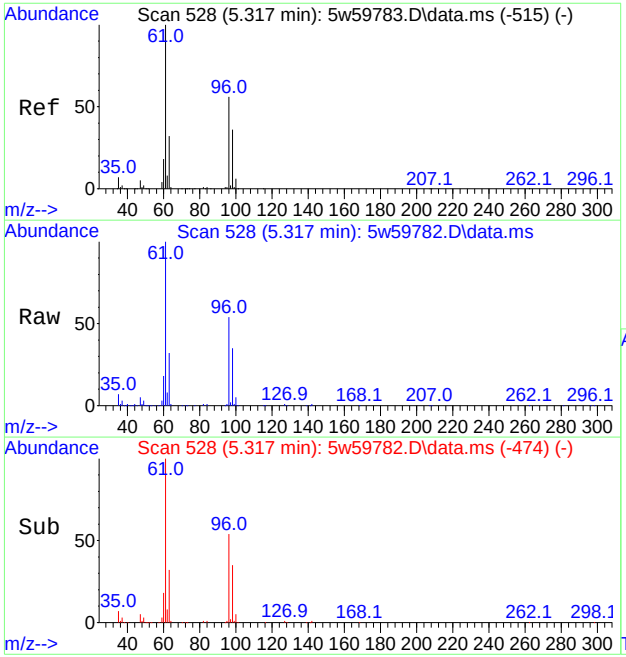


#25
IODOMETHANE
Concen: 5.20 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:142 Resp: 791555

Ion	Ratio	Lower	Upper
142	100		
127	45.5	16.0	76.0

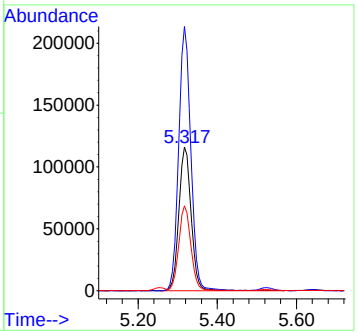


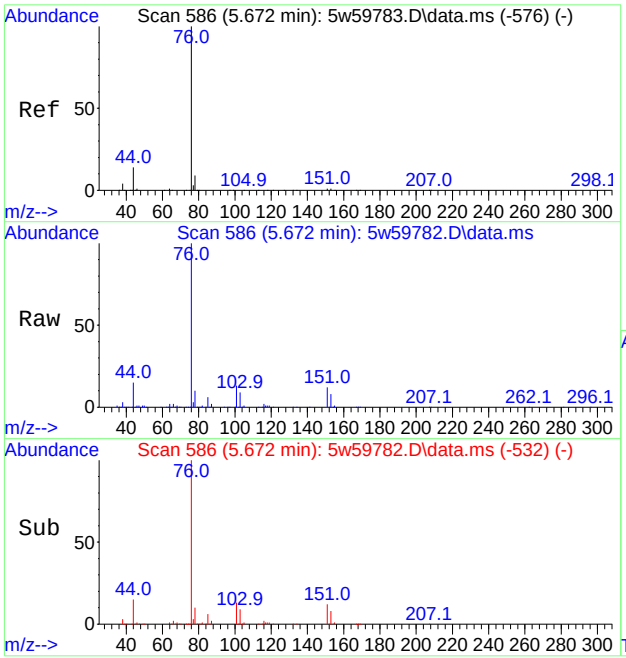


#26
1,1-DICHLOROETHYLENE
Concen: 4.66 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 251542

Ion	Ratio	Lower	Upper
96	100		
61	180.6	148.5	208.5
63	57.9	27.4	87.4

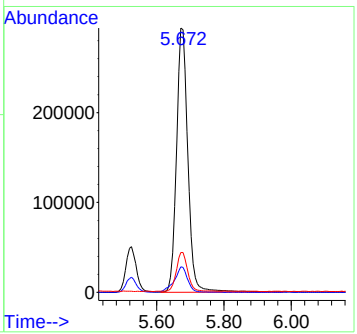


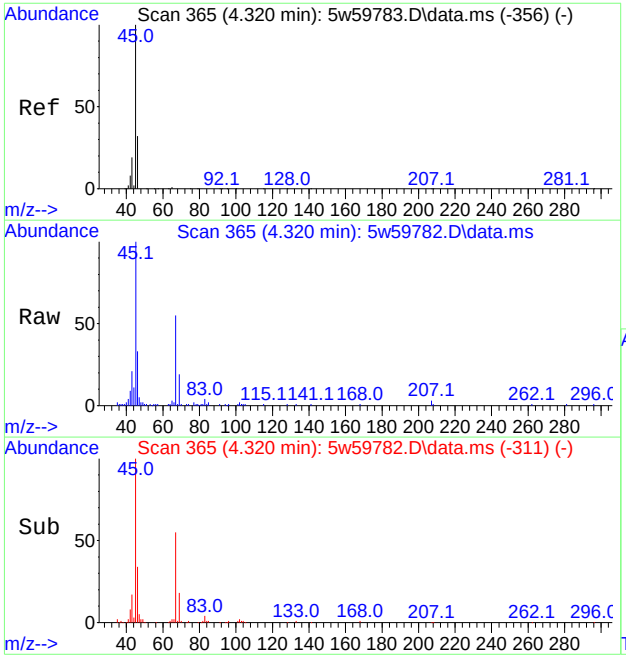


#27
CARBON DISULFIDE
Concen: 4.87 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 690855

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

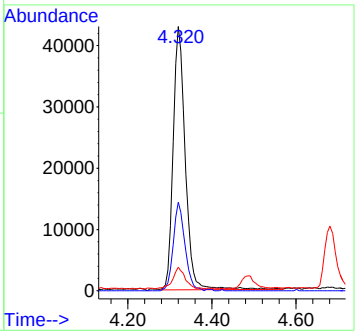


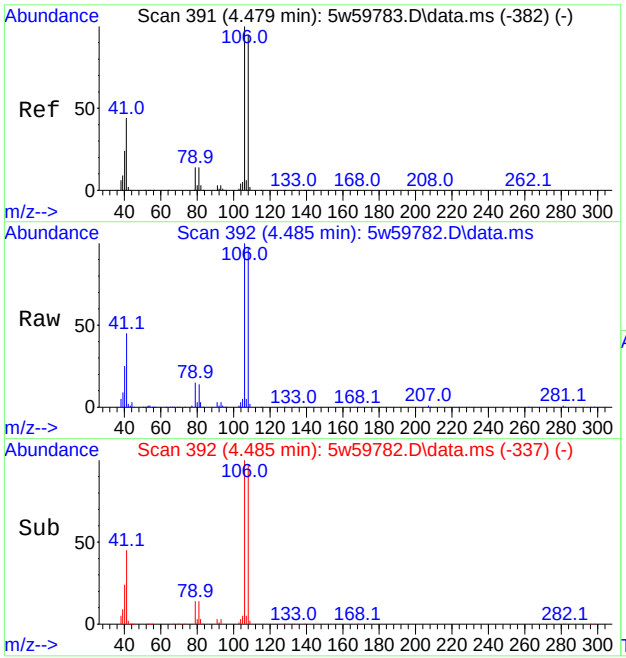


#28
ETHANOL
Concen: 4.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 86798

Ion	Ratio	Lower	Upper
45	100		
46	32.2	2.0	62.0
42	8.5	0.0	38.5

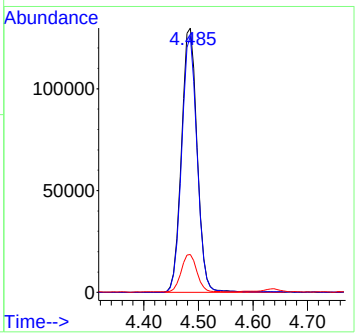


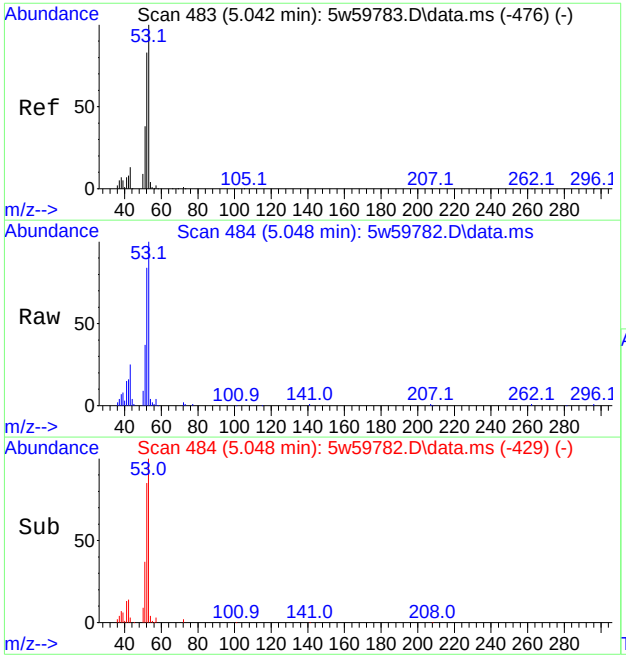


#29
BROMOETHENE
Concen: 5.39 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 258283

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	14.5	0.0	43.9

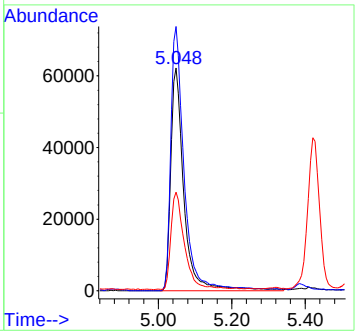


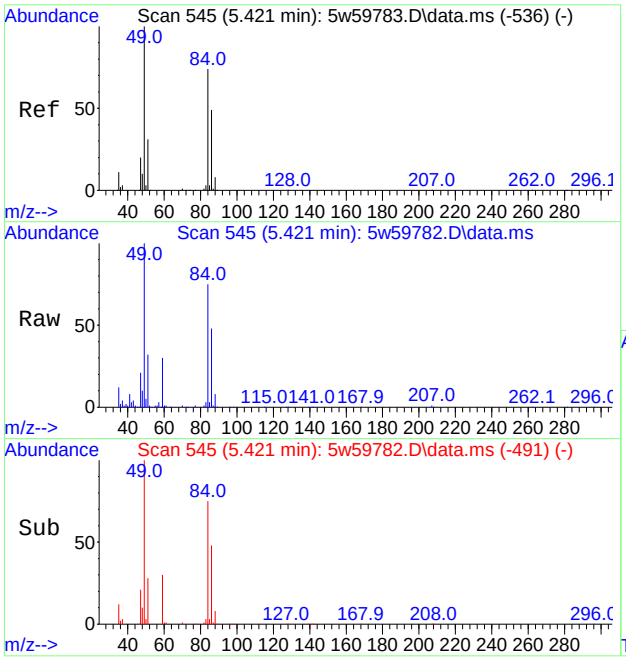


#30
ACRYLONITRILE
Concen: 4.59 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 155799

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.6	32.3	60.1

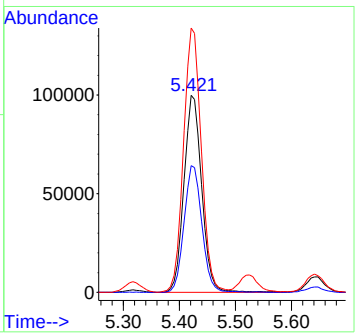


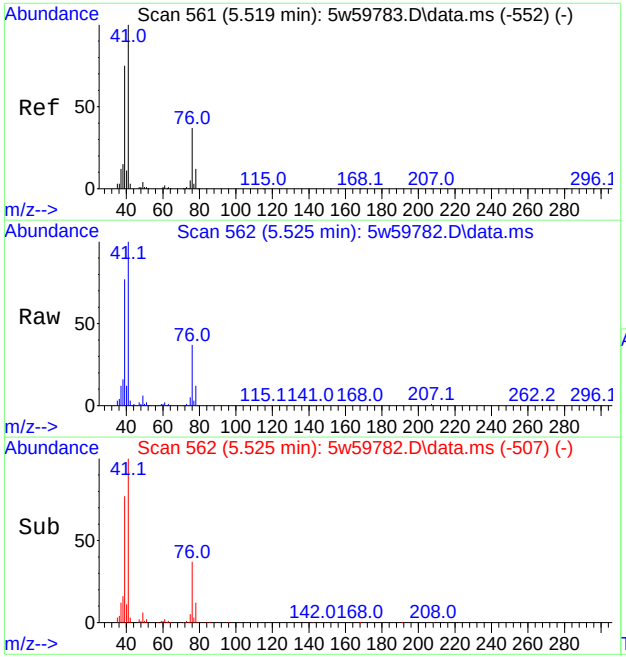


#31
METHYLENE CHLORIDE
Concen: 4.55 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 220204

Ion	Ratio	Lower	Upper
84	100		
86	64.5	35.2	95.2
49	134.2	105.3	165.3

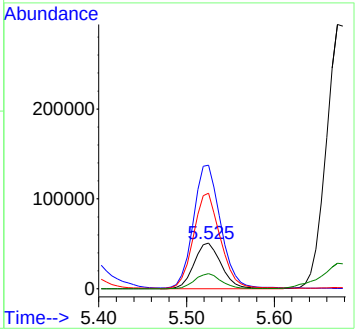


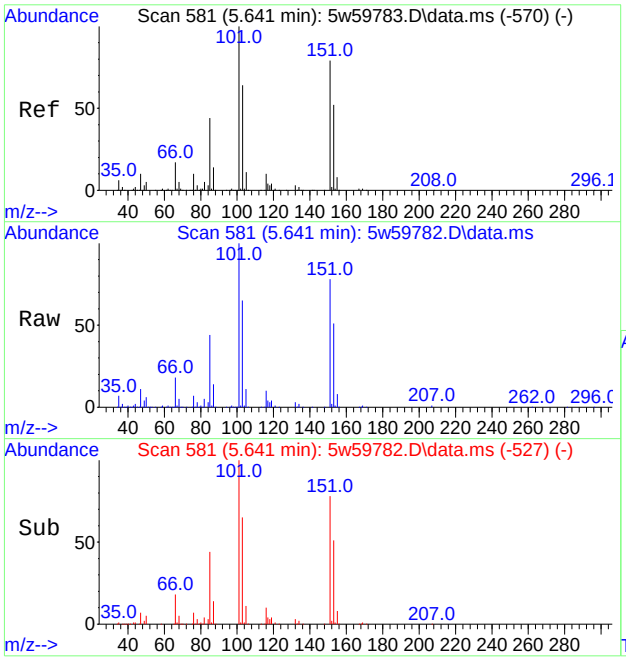


#32
3-CHLOROPROPENE
Concen: 4.99 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 110268

Ion	Ratio	Lower	Upper
76	100		
41	271.1	240.8	300.8
39	207.1	173.6	233.6
78	32.9	2.8	62.8

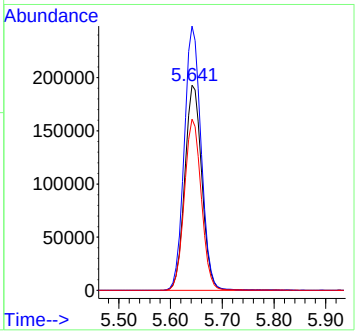


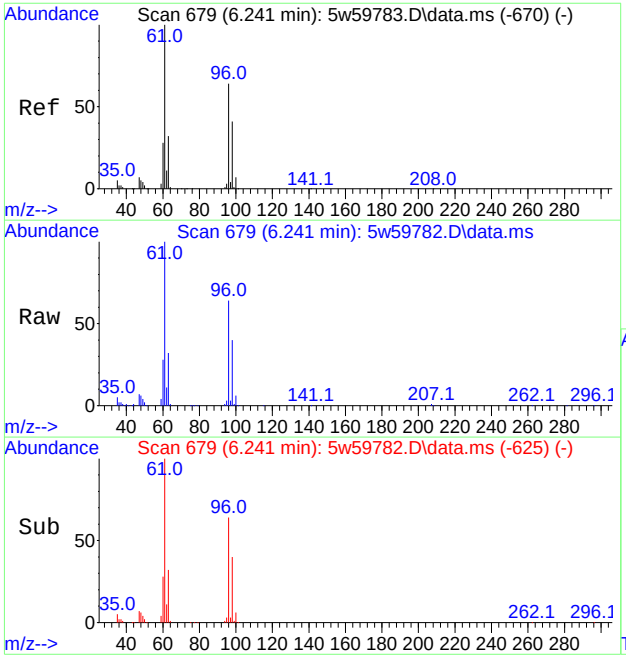


#33
FREON 113
Concen: 4.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:151 Resp: 441351

Ion	Ratio	Lower	Upper
151	100		
101	127.4	97.5	157.5
103	83.0	52.5	112.5

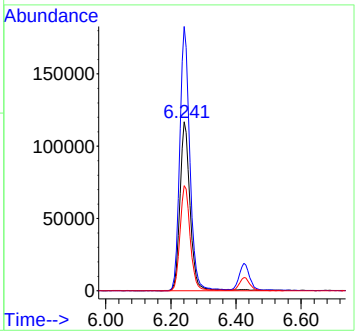


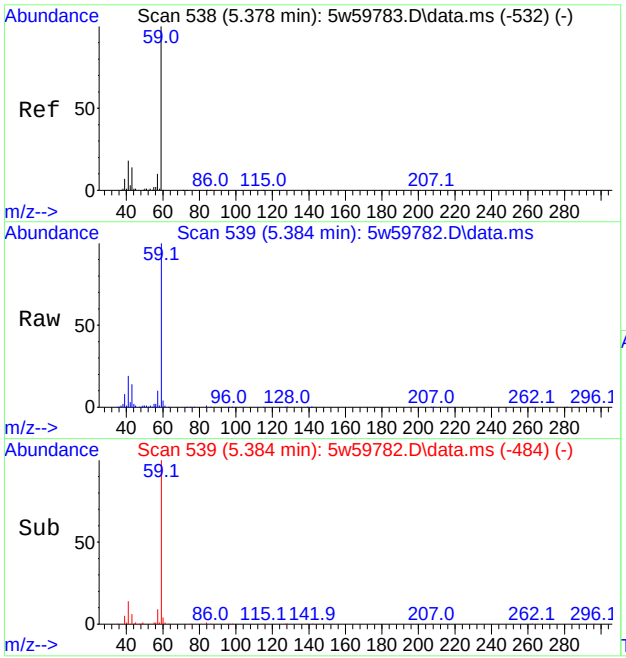


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 4.68 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 257488

Ion	Ratio	Lower	Upper
96	100		
61	152.8	126.4	186.4
98	62.3	34.1	94.1

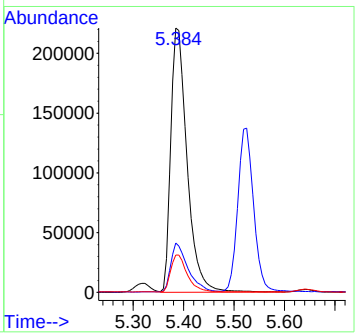


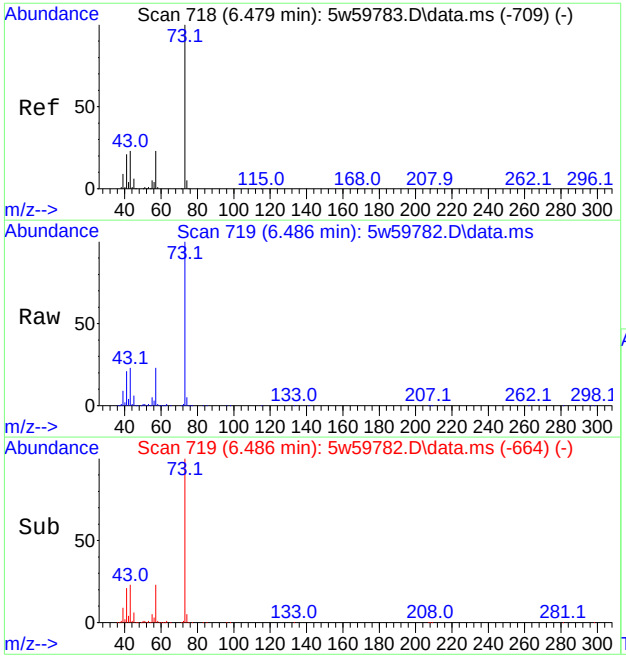


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.44 PPBV
RT: 5.384 min Scan# 539
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 498869

Ion	Ratio	Lower	Upper
59	100		
41	19.5	0.0	49.3
43	14.1	0.0	44.1

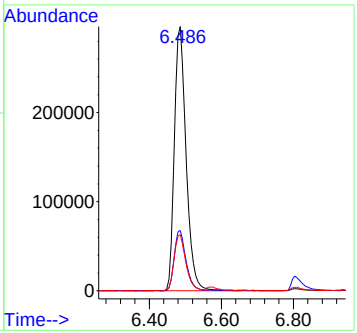


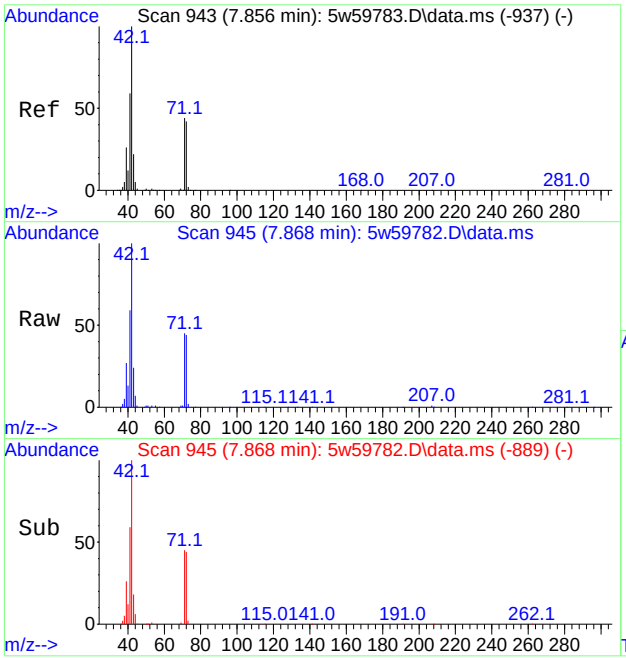


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.04 PPBV
RT: 6.486 min Scan# 719
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 73 Resp: 676684

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.9	0.0	50.6

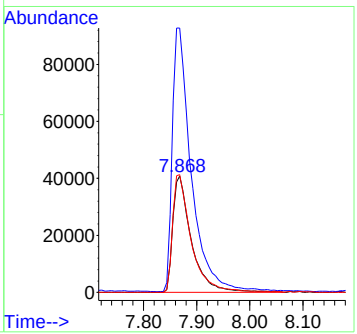


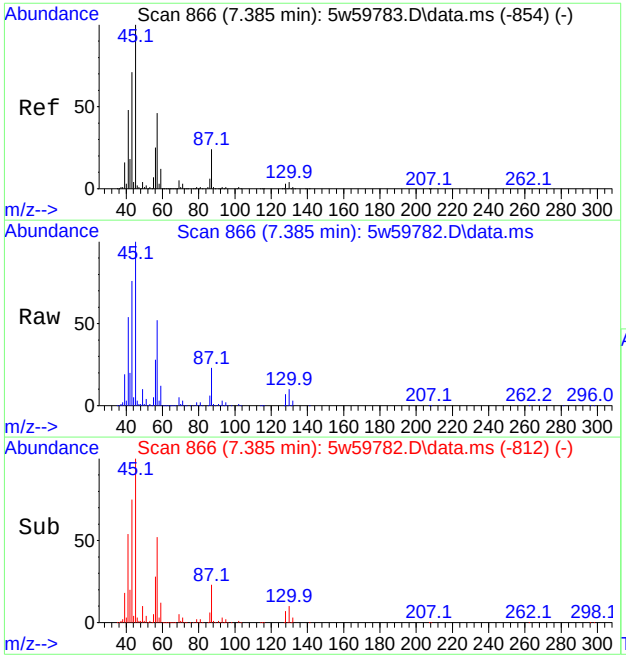


#37
TETRAHYDROFURAN
Concen: 5.53 PPBV
RT: 7.868 min Scan# 945
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 99619

Ion	Ratio	Lower	Upper
72	100		
42	231.9	202.4	262.4
71	101.4	71.1	131.1

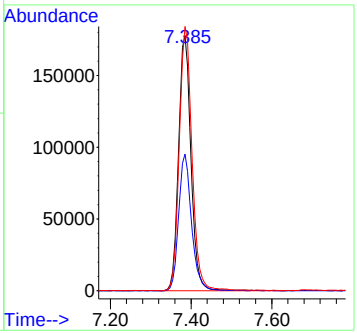


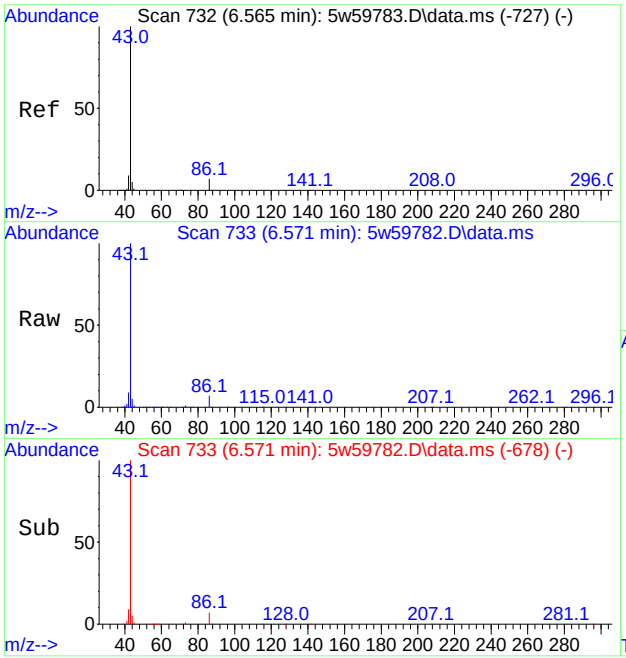


#38
HEXANE
Concen: 5.02 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 379941

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	106.7	74.7	134.7

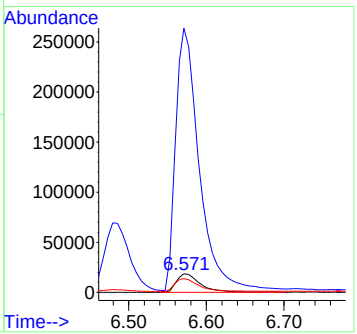


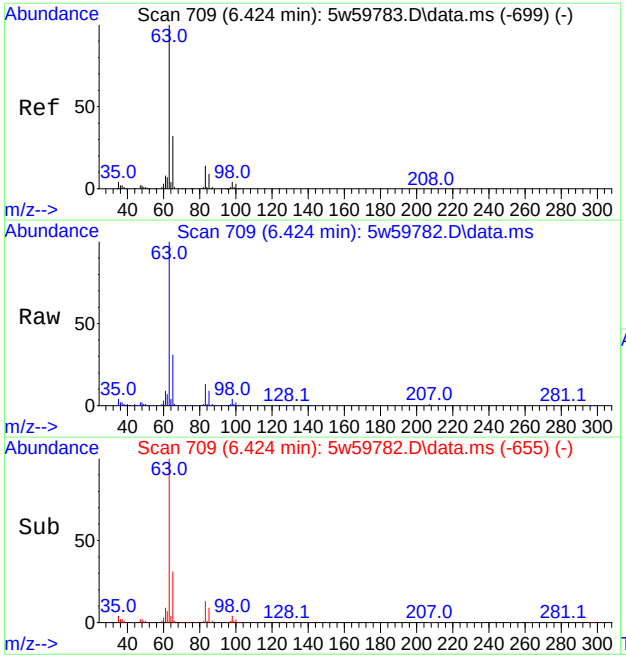


#39
VINYL ACETATE
Concen: 4.63 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 86 Resp: 40455

Ion	Ratio	Lower	Upper
86	100		
43	1388.3	1379.7	1439.7
44	68.5	36.9	96.9

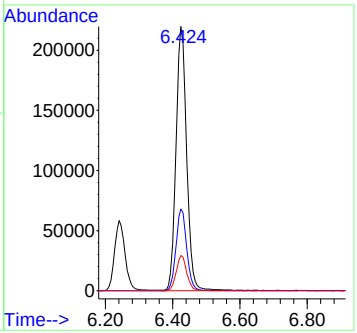


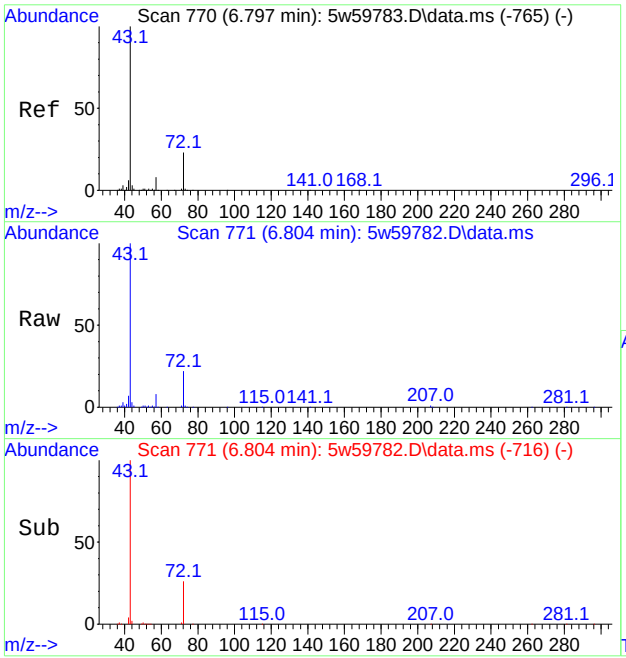


#40
1,1-DICHLOROETHANE
Concen: 4.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 482232

Ion	Ratio	Lower	Upper
63	100		
65	31.3	1.7	61.7
83	13.2	0.0	43.5

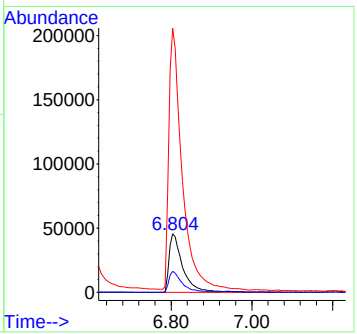


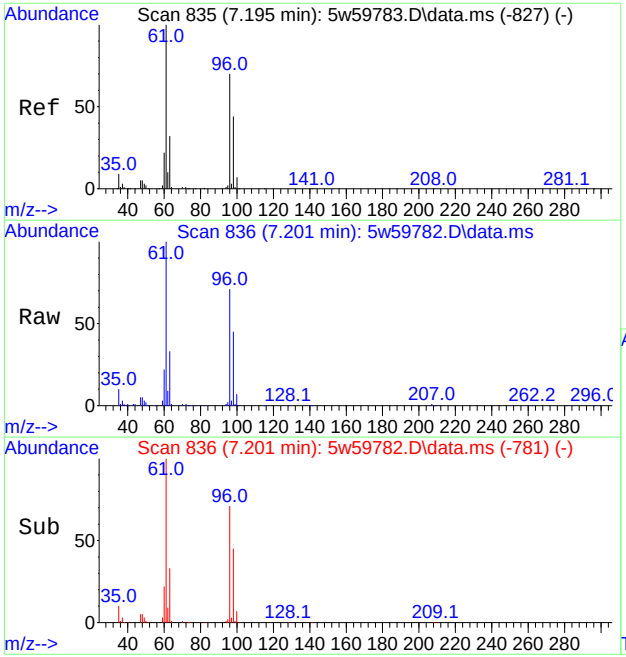


#41
METHYL ETHYL KETONE
Concen: 5.80 PPBV
RT: 6.804 min Scan# 771
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 108805

Ion	Ratio	Lower	Upper
72	100		
57	35.8	4.8	64.8
43	450.4	415.9	475.9

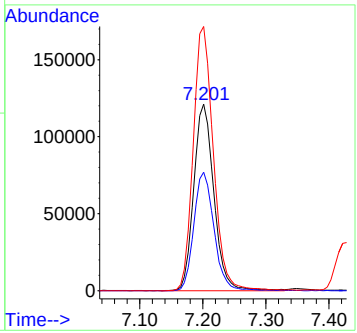


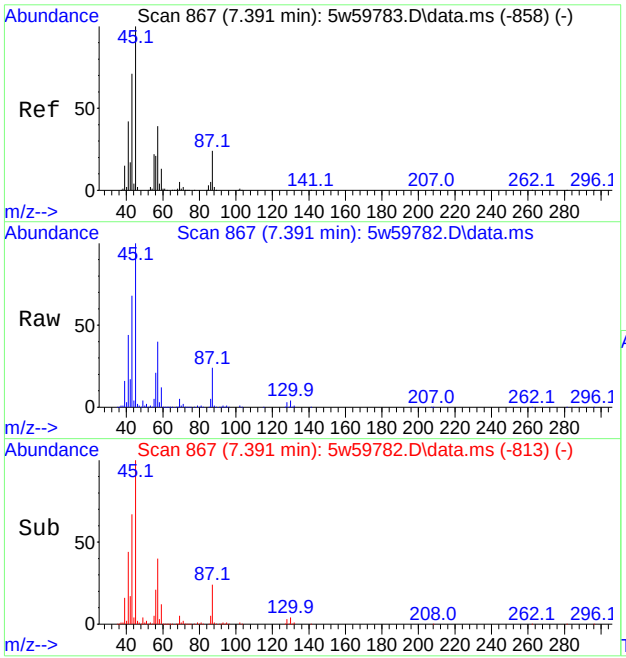


#42
cis-1,2-DICHLOROETHYLENE
Concen: 4.74 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 269410

Ion	Ratio	Lower	Upper
96	100		
98	63.6	34.0	94.0
61	142.1	111.5	171.5

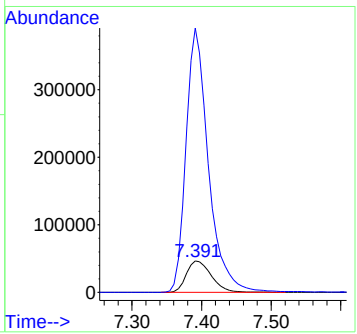


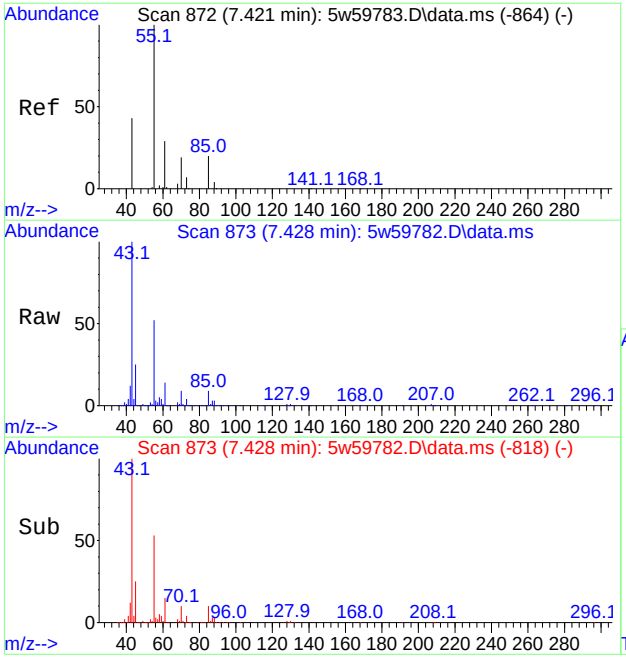


#43
DIISOPROPYL ETHER
Concen: 5.65 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 116383

Ion	Ratio	Lower	Upper
59	100		
45	760.3	720.9	780.9

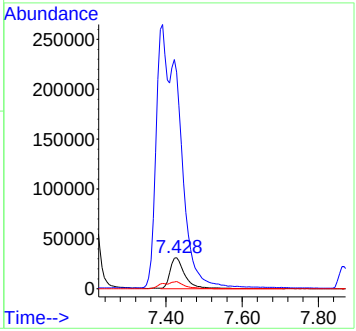


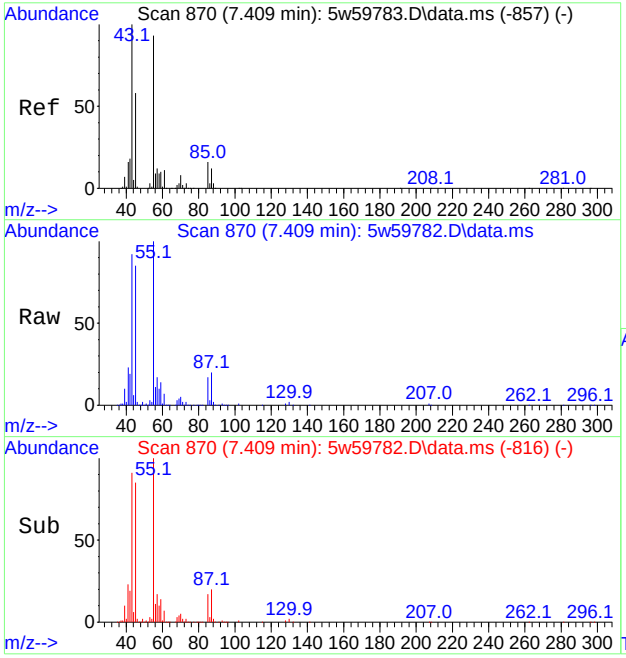


#44
ETHYL ACETATE
Concen: 5.60 PPBV m
RT: 7.428 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 61 Resp: 87258

Ion	Ratio	Lower	Upper
61	100		
43	636.4	560.5	620.5#
88	32.9	4.5	64.5

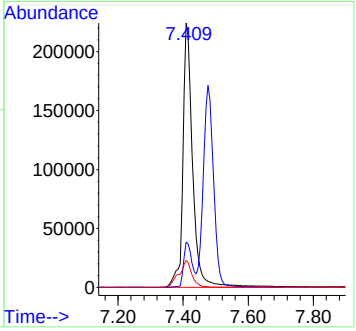


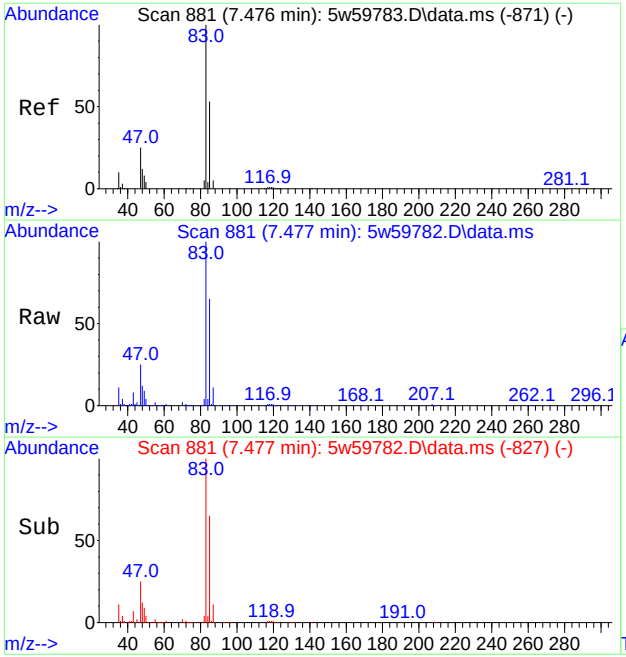


#45
METHYL ACRYLATE
Concen: 5.35 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 471994

Ion	Ratio	Lower	Upper
55	100		
85	15.0	10.9	20.3
58	13.3	9.4	17.6

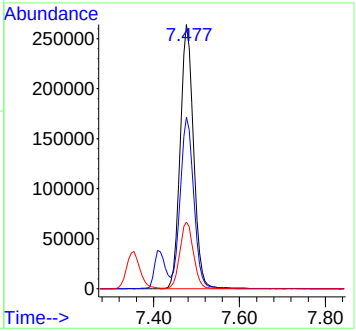


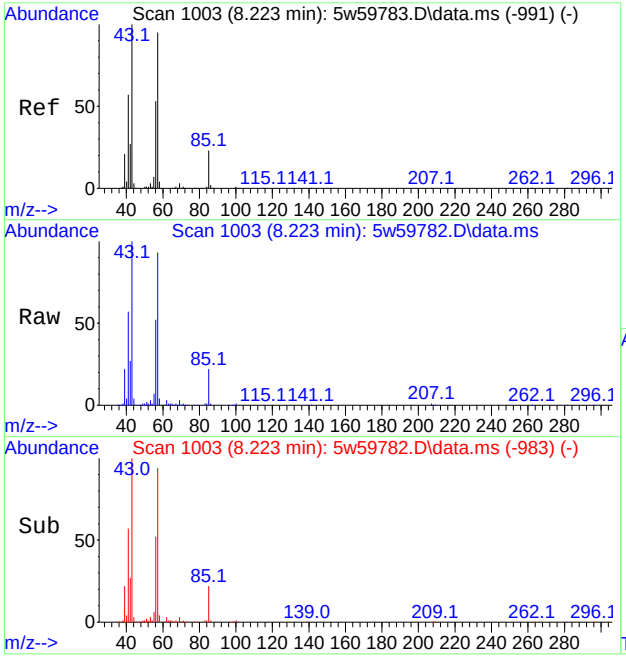


#46
CHLOROFORM
Concen: 4.95 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 570969

Ion	Ratio	Lower	Upper
83	100		
85	66.4	35.6	95.6
47	25.9	0.0	55.2

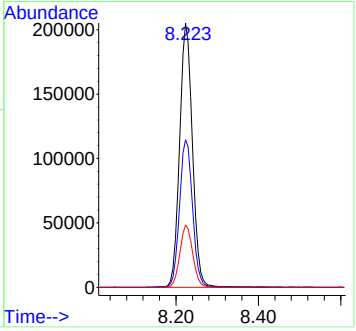


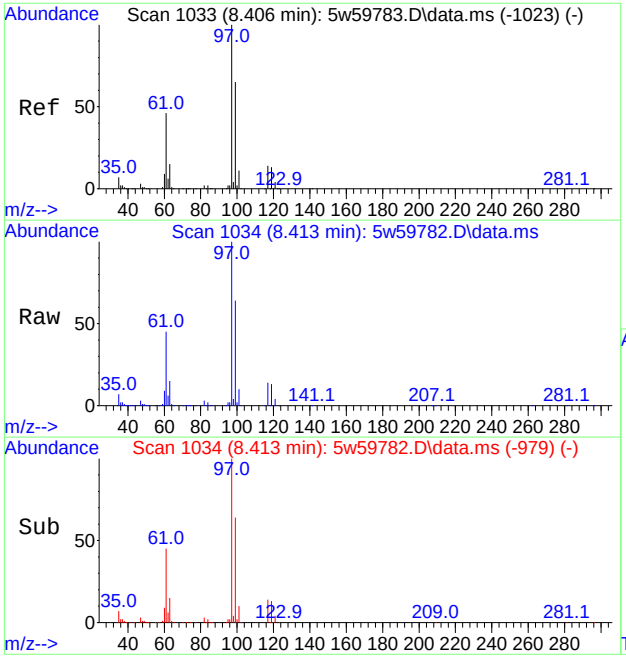


#47
2,4-DIMETHYLPENTANE
Concen: 5.08 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 444023

Ion	Ratio	Lower	Upper
57	100		
56	57.0	26.5	86.5
85	23.7	0.0	53.8

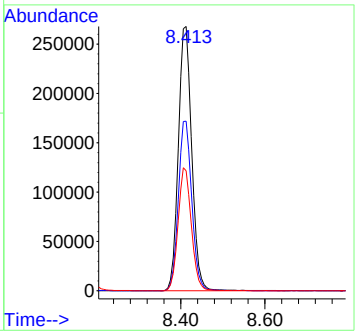


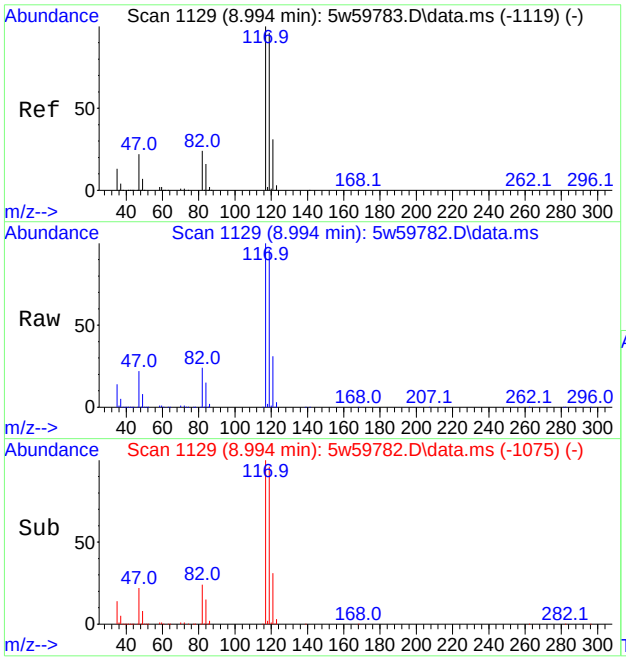


#48
1,1,1-TRICHLOROETHANE
Concen: 4.75 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 97 Resp: 592452

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.8	94.8
61	46.2	15.8	75.8

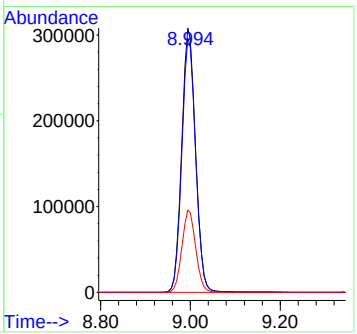


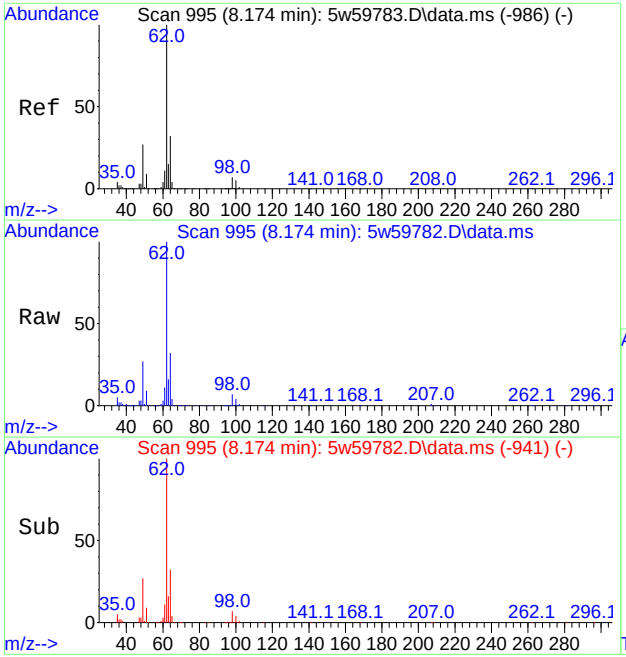


#49
CARBON TETRACHLORIDE
Concen: 4.82 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 658939

Ion	Ratio	Lower	Upper
117	100		
119	96.4	66.9	126.9
121	31.1	1.3	61.3

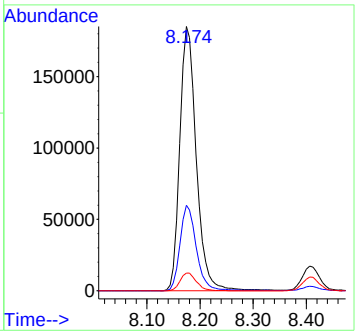


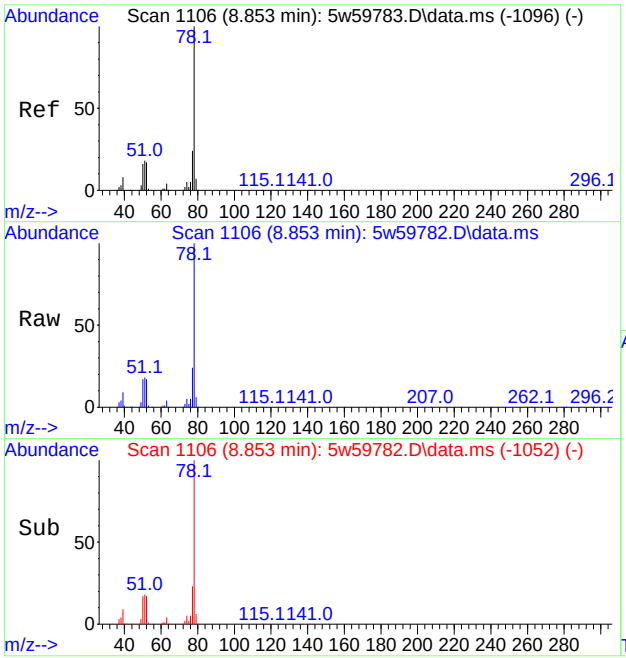


#50
1,2-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 401494

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.7	0.0	36.9

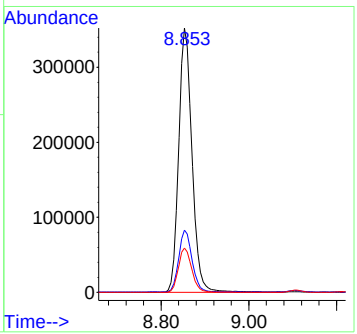


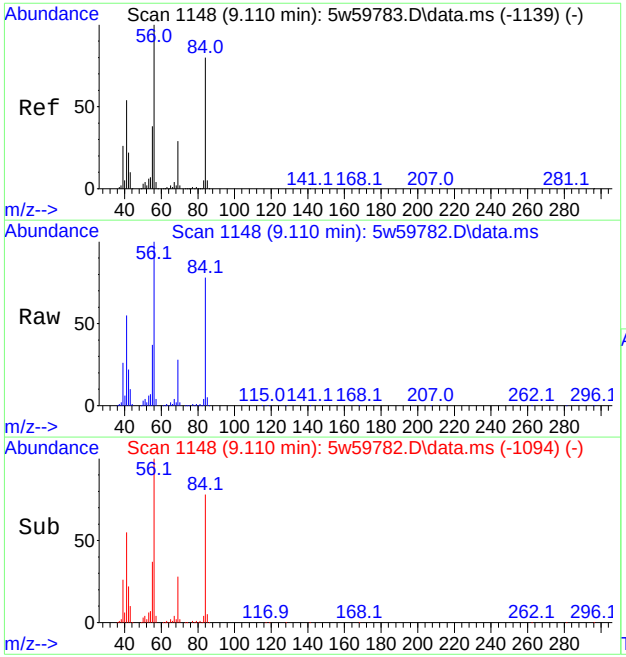


#52
BENZENE
Concen: 5.39 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 78 Resp: 741517

Ion	Ratio	Lower	Upper
78	100		
77	23.5	0.0	53.8
52	16.9	0.0	46.9

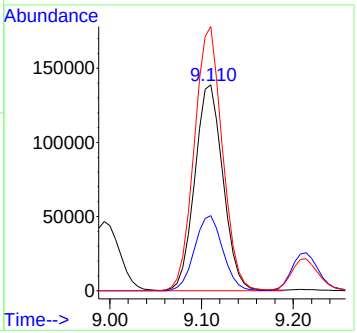


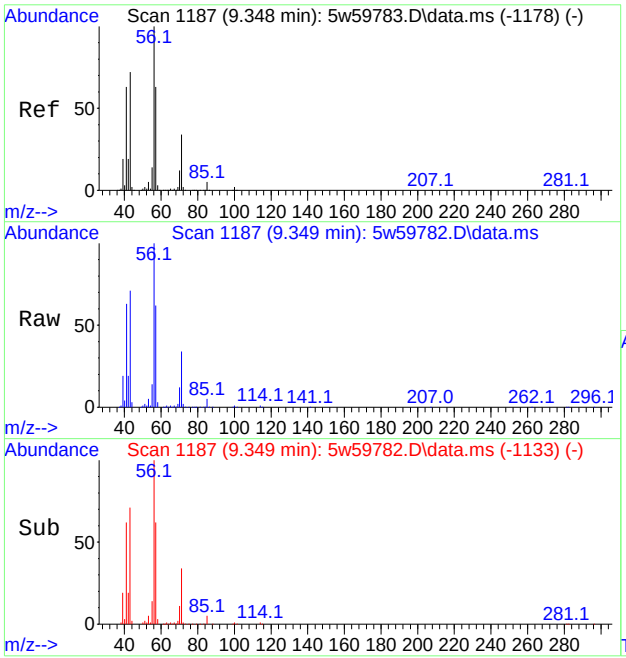


#53
CYCLOHEXANE
Concen: 5.48 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 297316

Ion	Ratio	Lower	Upper
84	100		
69	36.6	6.9	66.9
56	127.4	98.2	158.2

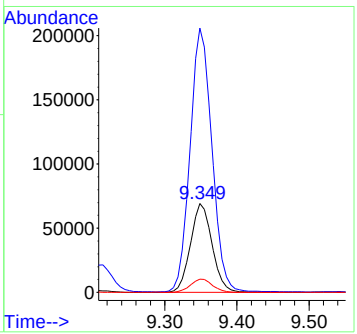


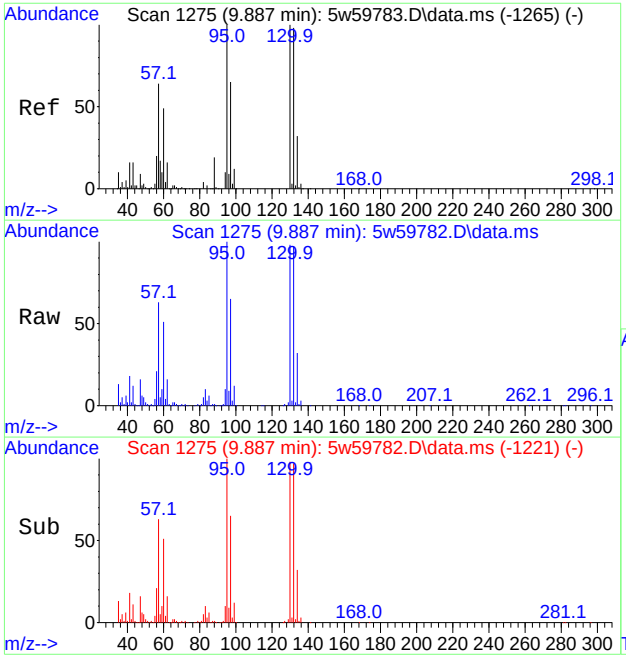


#54
2,3-DIMETHYLPENTANE
Concen: 5.25 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 71 Resp: 144492

Ion	Ratio	Lower	Upper
71	100		
56	300.3	264.6	324.6
85	15.2	0.0	45.3

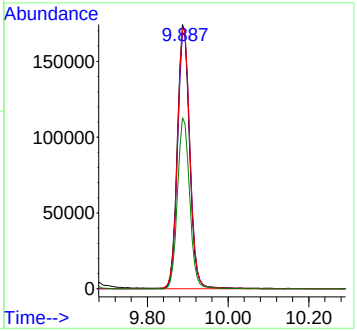


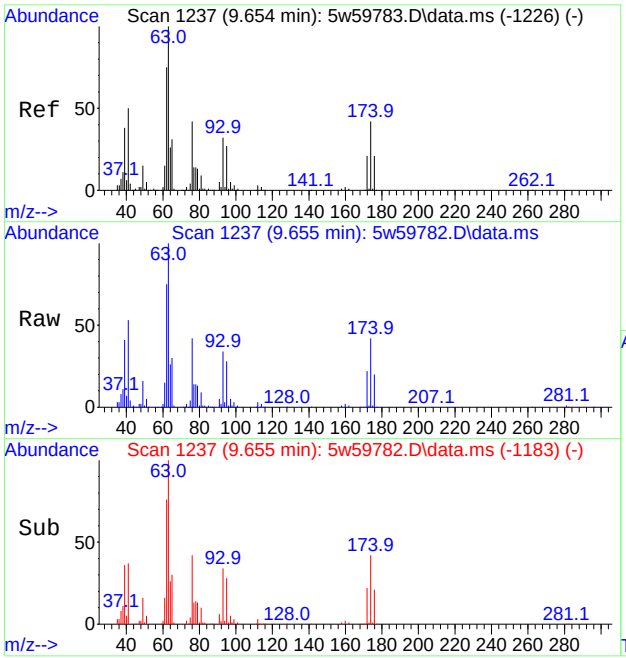


#55
TRICHLOROETHYLENE
Concen: 5.01 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 95 Resp: 369372

Ion	Ratio	Lower	Upper
95	100		
132	97.7	69.0	129.0
130	99.7	70.6	130.6
97	63.9	34.6	94.6

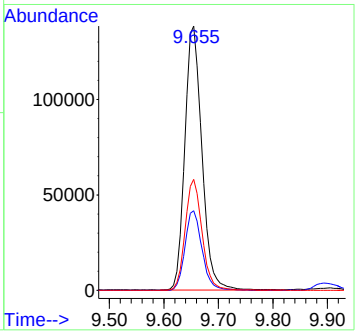


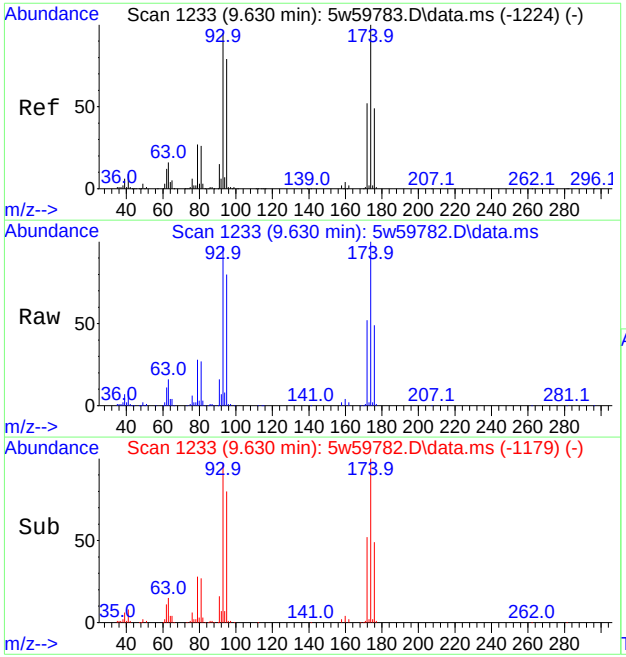


#56
1,2-DICHLOROPROPANE
Concen: 5.12 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 300591

Ion	Ratio	Lower	Upper
63	100		
65	30.0	0.5	60.5
76	41.6	11.5	71.5

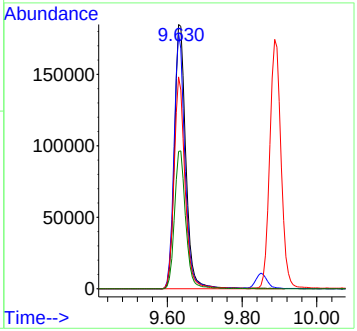


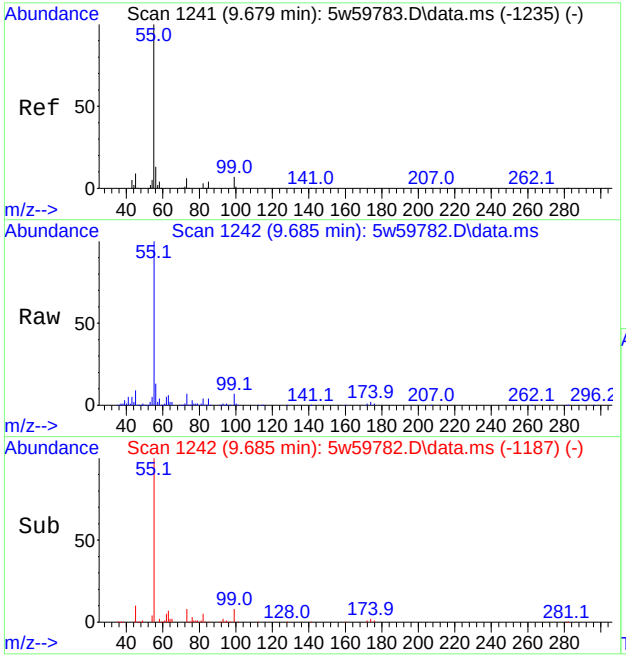


#57
DIBROMOMETHANE
Concen: 4.83 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:174 Resp: 391164

Ion	Ratio	Lower	Upper
174	100		
93	94.0	65.0	120.6
95	78.2	54.5	101.1
172	51.8	36.3	67.5

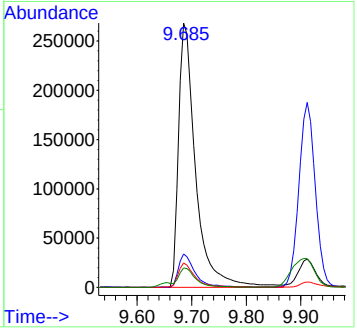


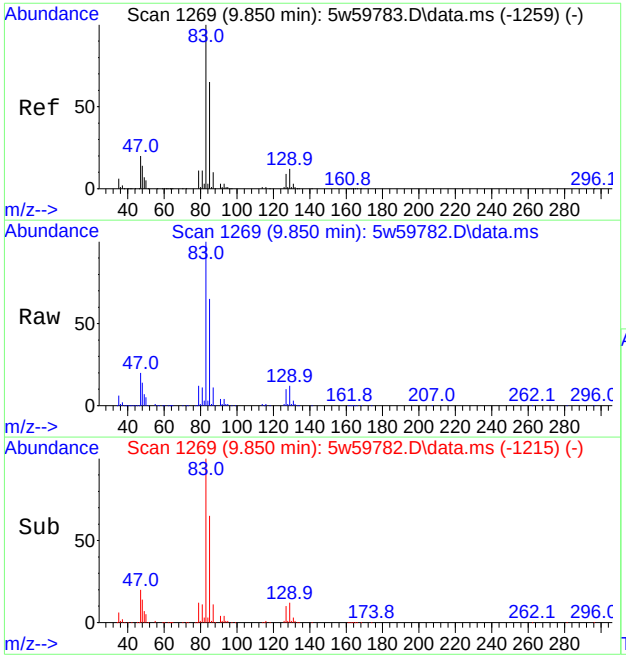


#58
ETHYL ACRYLATE
Concen: 5.68 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 582502

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.5	6.6	12.2
99	8.8	6.4	12.0

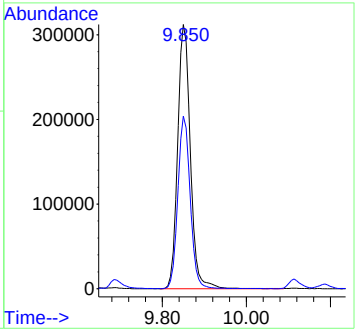


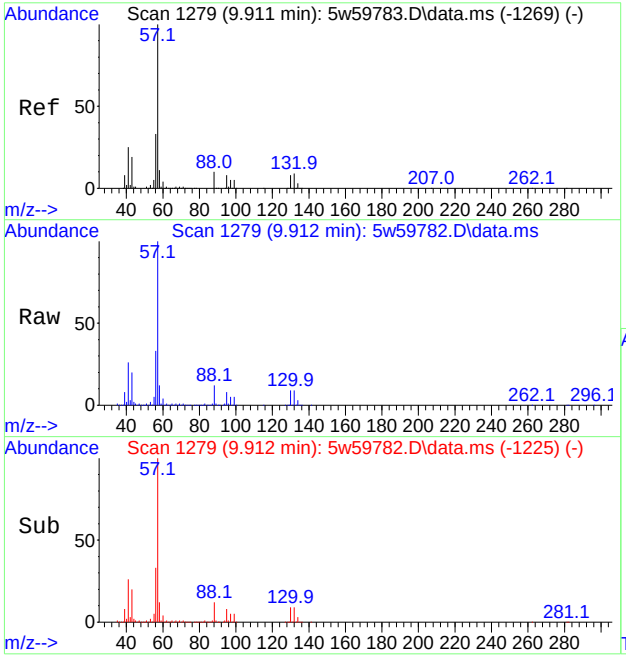


#59
BROMODICHLOROMETHANE
Concen: 5.05 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 653402

Ion	Ratio	Lower	Upper
83	100		
85	63.8	33.4	93.4

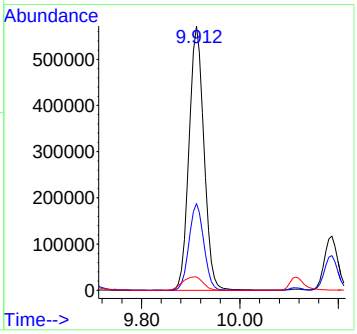


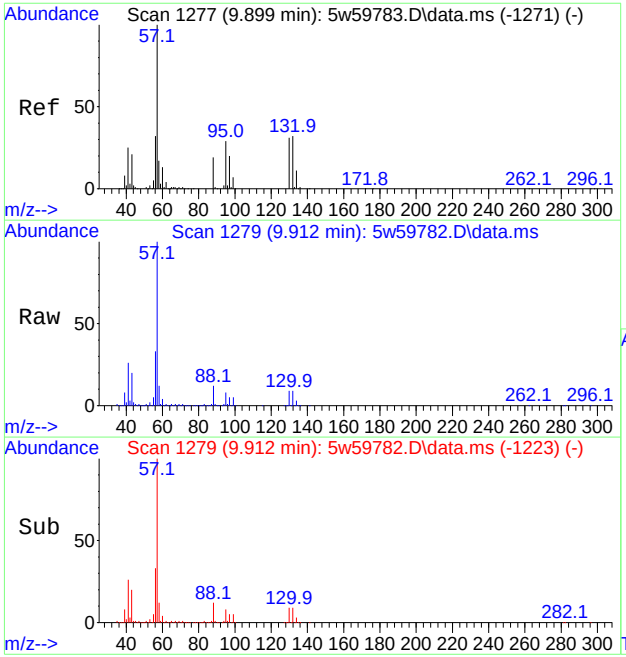


#60
2,2,4-TRIMETHYLPENTANE
Concen: 5.26 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 1206122

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.2	0.0	37.3

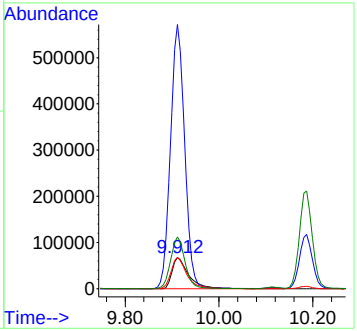


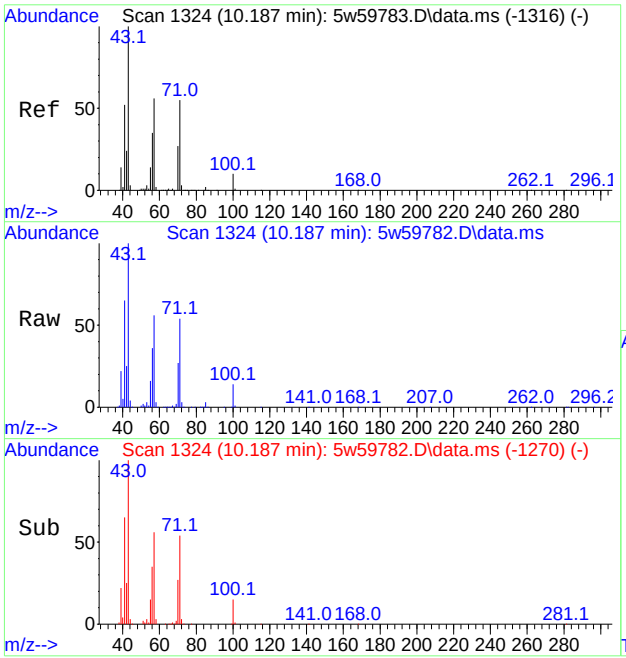


#61
1,4-DIOXANE
Concen: 5.89 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 88 Resp: 168473

Ion	Ratio	Lower	Upper
88	100		
57	845.3	494.2	554.2#
58	100.5	58.9	118.9
43	165.6	78.3	138.3#

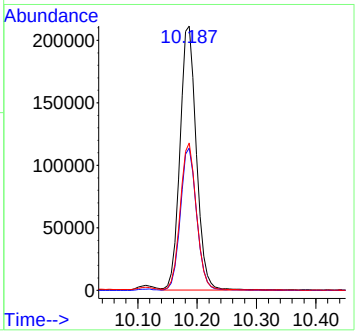


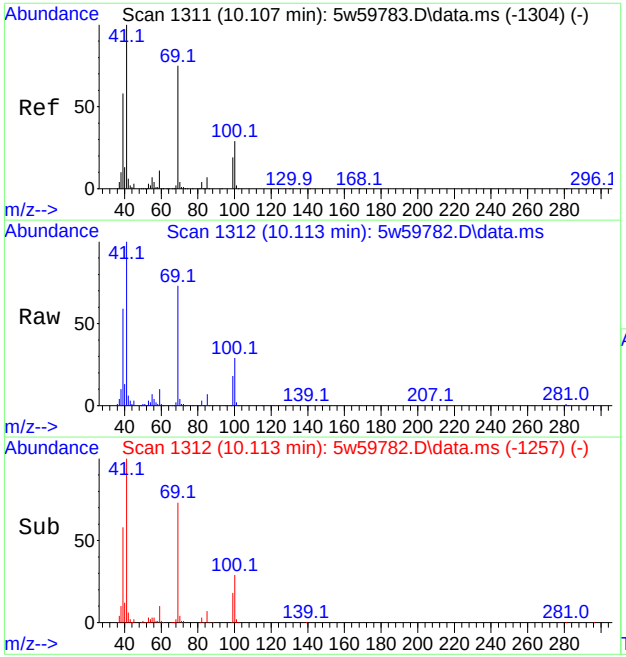


#62
HEPTANE
Concen: 4.93 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 406924

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.4	26.2	86.2

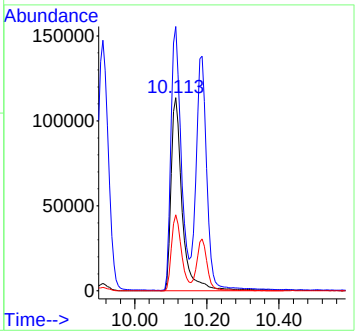


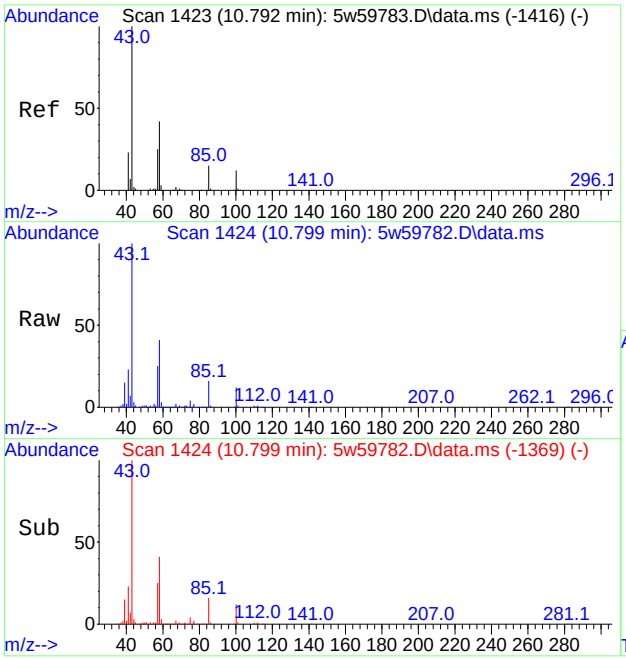


#63
METHYL METHACRYLATE
Concen: 5.84 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 247000

Ion	Ratio	Lower	Upper
69	100		
41	122.1	95.3	155.3
100	35.3	6.3	66.3

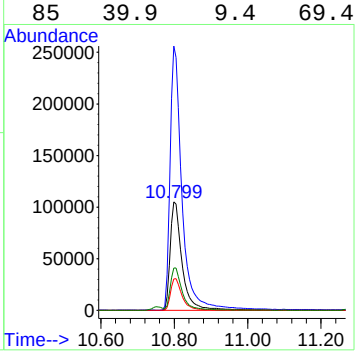


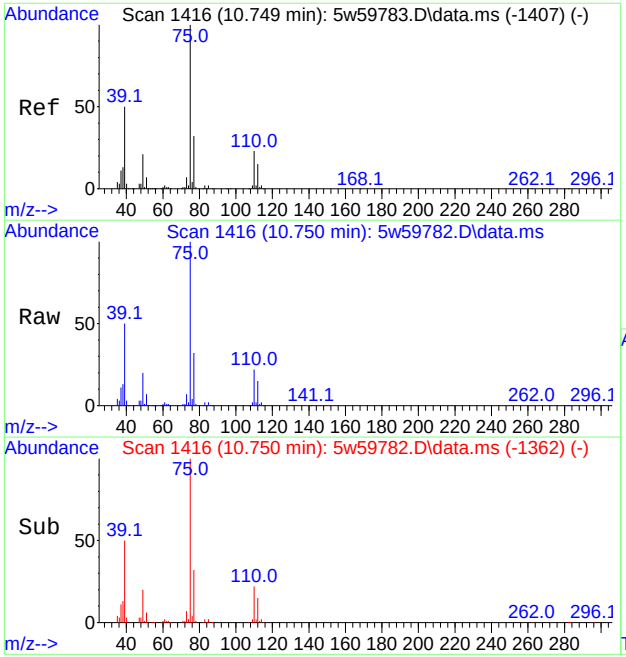


#64
METHYL ISOBUTYL KETONE
Concen: 5.60 PPBV
RT: 10.799 min Scan# 1424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 240795

Ion	Ratio	Lower	Upper
58	100		
43	242.6	209.2	269.2
100	29.0	0.0	58.8
85	39.9	9.4	69.4

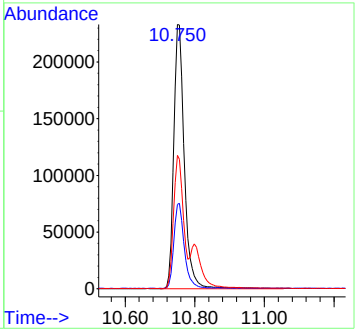


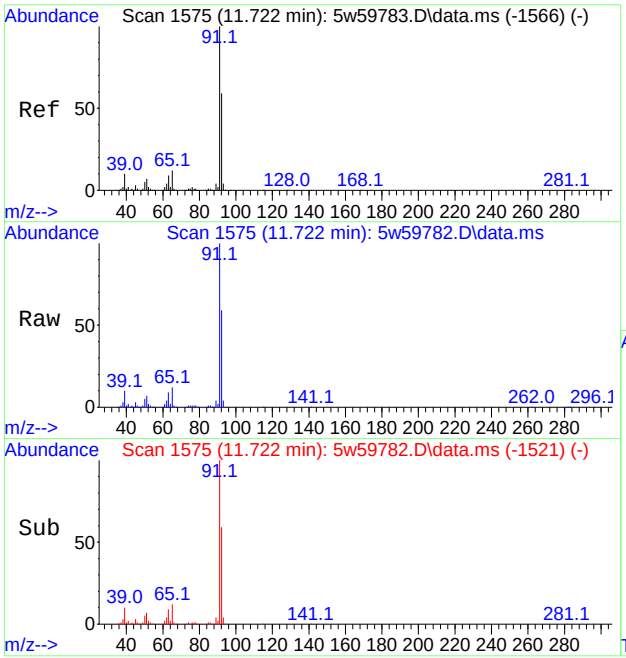


#65
cis-1,3-DICHLOROPROPENE
Concen: 5.47 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 494703

Ion	Ratio	Lower	Upper
75	100		
77	31.7	2.2	62.2
39	48.4	34.3	94.3

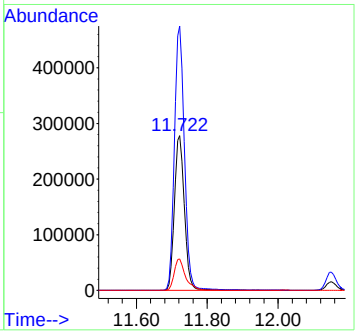


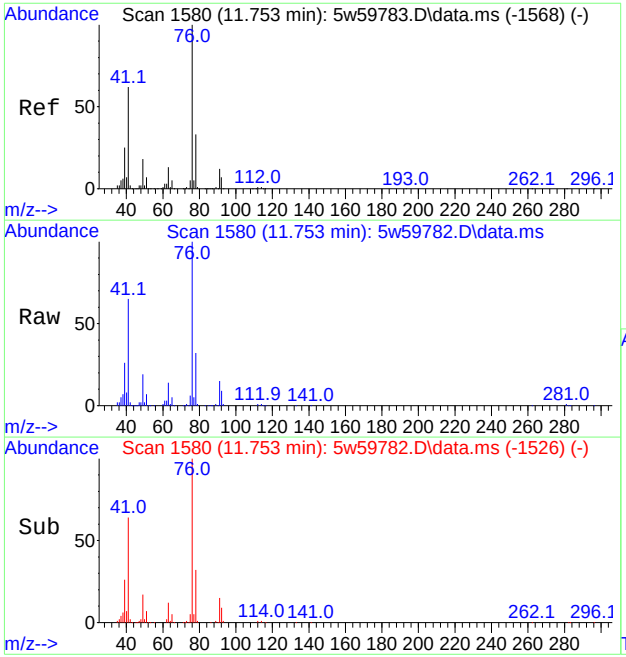


#66
TOLUENE
Concen: 5.55 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 92 Resp: 547474

Ion	Ratio	Lower	Upper
92	100		
91	170.9	140.1	200.1
65	23.1	0.0	53.1

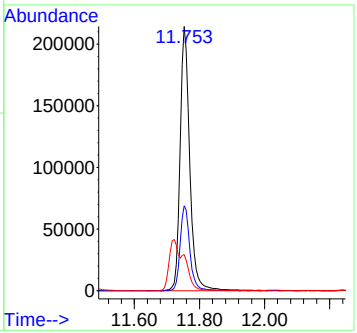


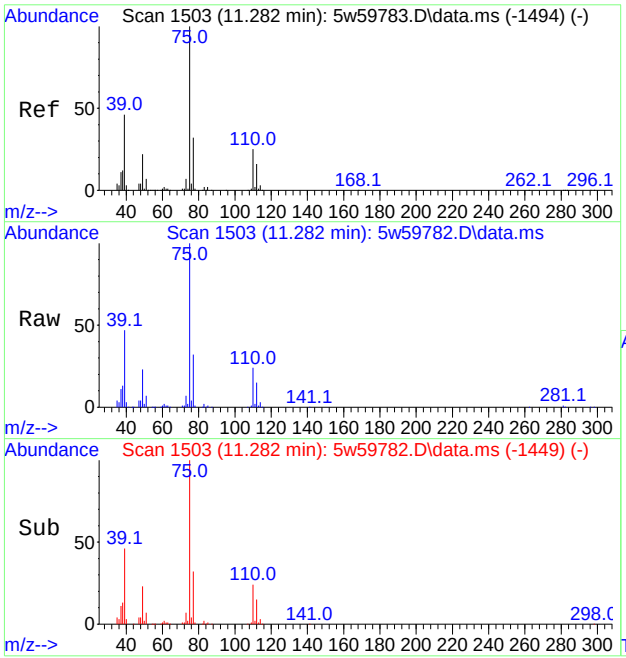


#67
1,3-DICHLOROPROPANE
Concen: 5.43 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 446082

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	11.2	7.1	13.1

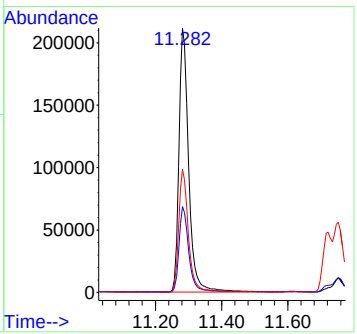


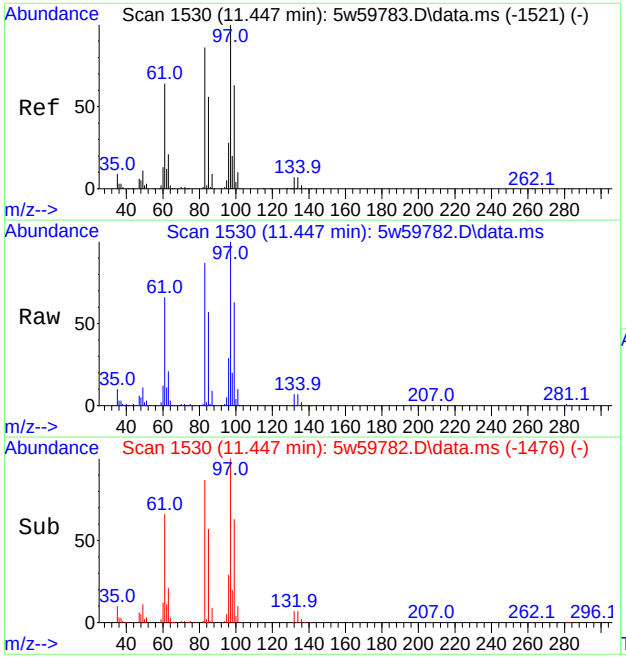


#68
trans-1,3-DICHLOROPROPENE
Concen: 5.29 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 434584

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	46.8	16.1	76.1

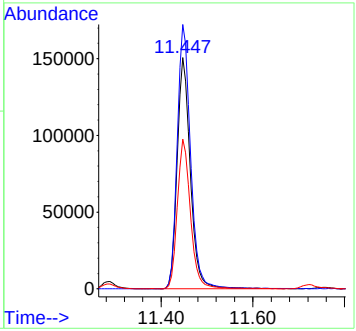


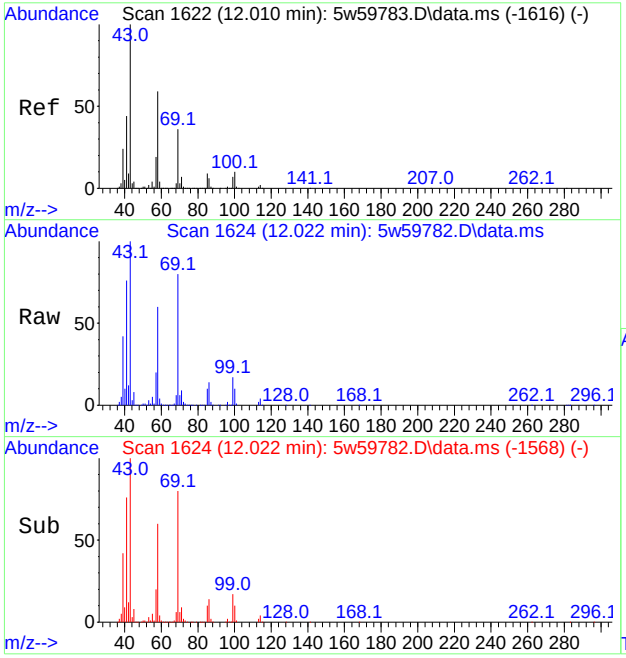


#69
1,1,2-TRICHLOROETHANE
Concen: 5.53 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 301561

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	64.7	35.3	95.3

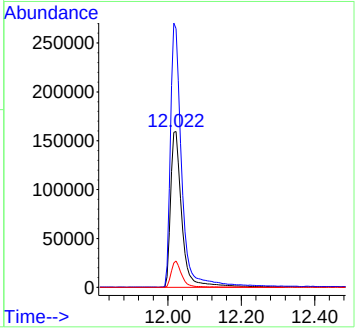


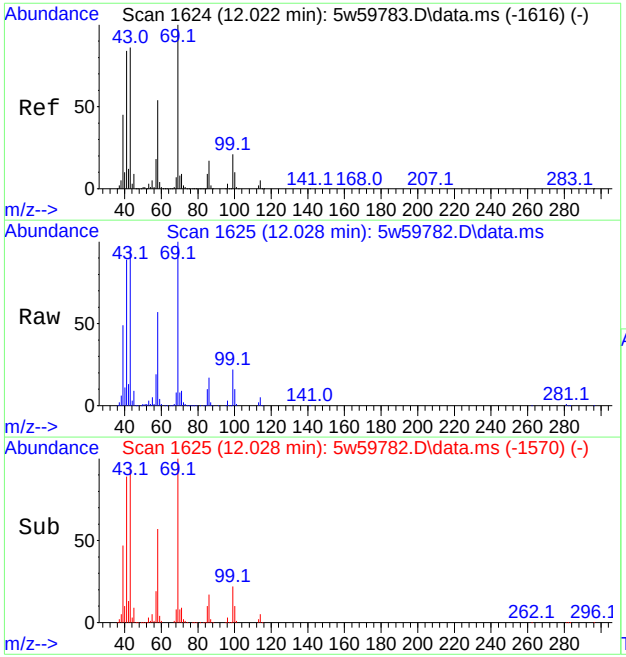


#71
2-HEXANONE
Concen: 6.43 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 344921

Ion	Ratio	Lower	Upper
58	100		
43	169.0	137.2	197.2
100	16.2	0.0	46.9

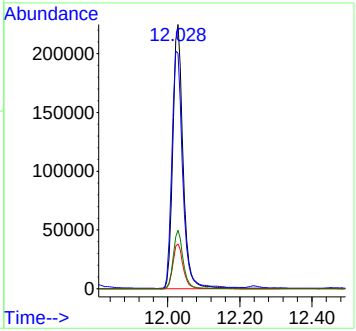


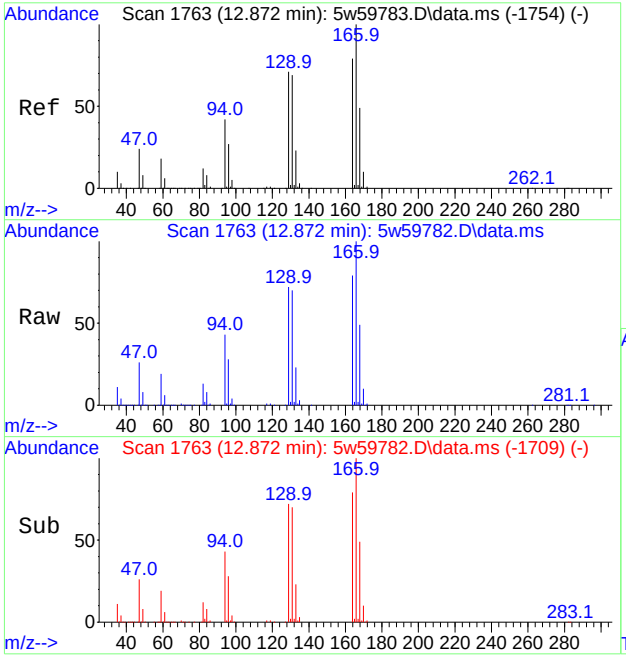


#72
ETHYL METHACRYLATE
Concen: 6.46 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 445397

Ion	Ratio	Lower	Upper
69	100		
41	94.9	64.0	119.0
86	16.9	12.0	22.4
99	21.6	15.0	27.8

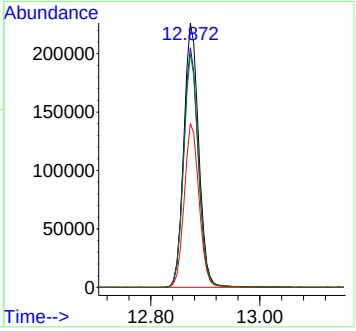


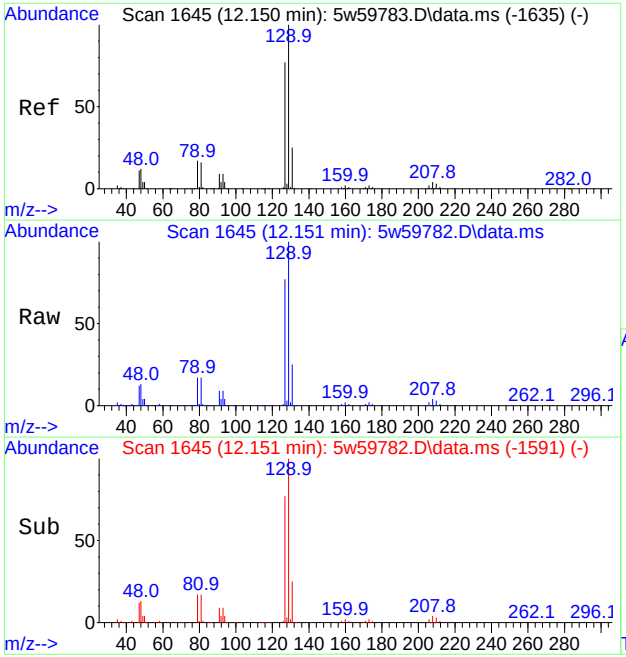


#73
TETRACHLOROETHYLENE
Concen: 5.33 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:164 Resp: 427336

Ion	Ratio	Lower	Upper
164	100		
129	90.2	59.7	119.7
168	62.2	32.2	92.2
131	88.1	57.8	117.8

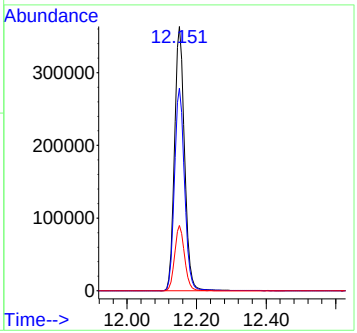


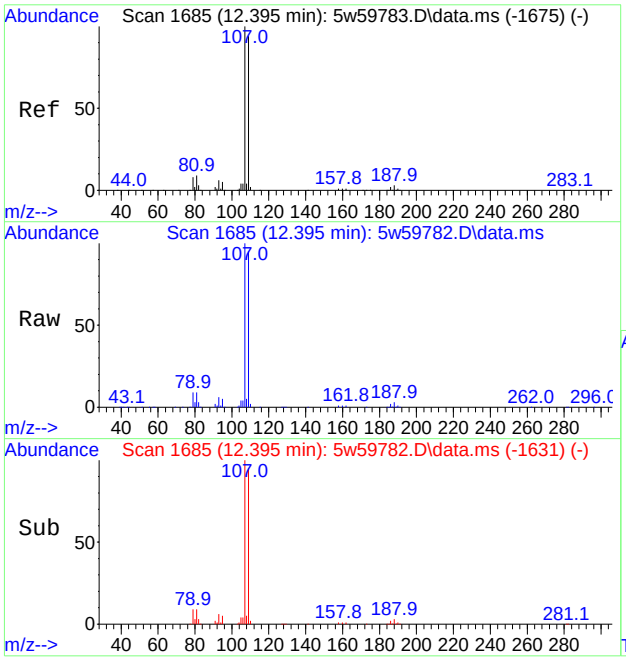


#74
DIBROMOCHLOROMETHANE
Concen: 5.41 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:129 Resp: 728217

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.5	0.0	54.5

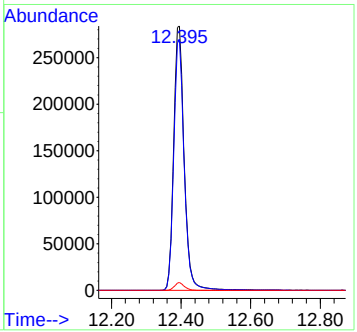


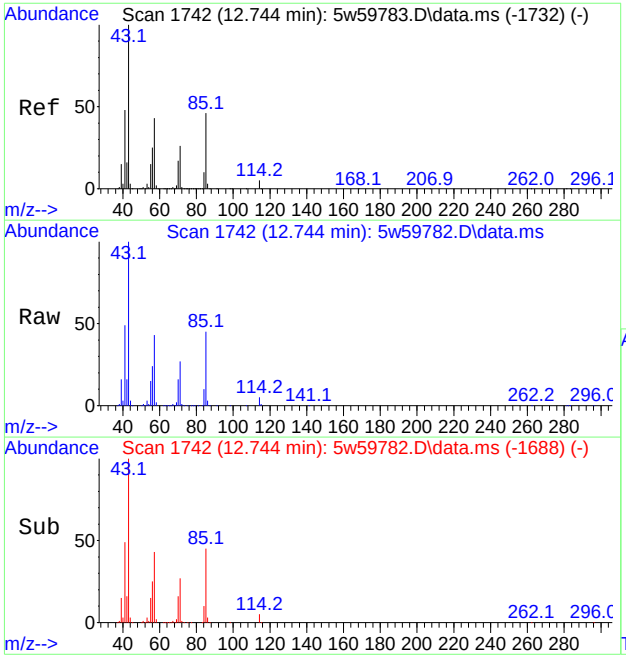


#75
1,2-DIBROMOETHANE
Concen: 5.98 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:107 Resp: 595110

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

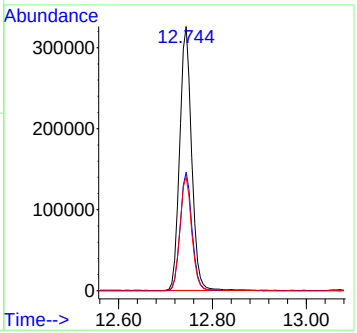


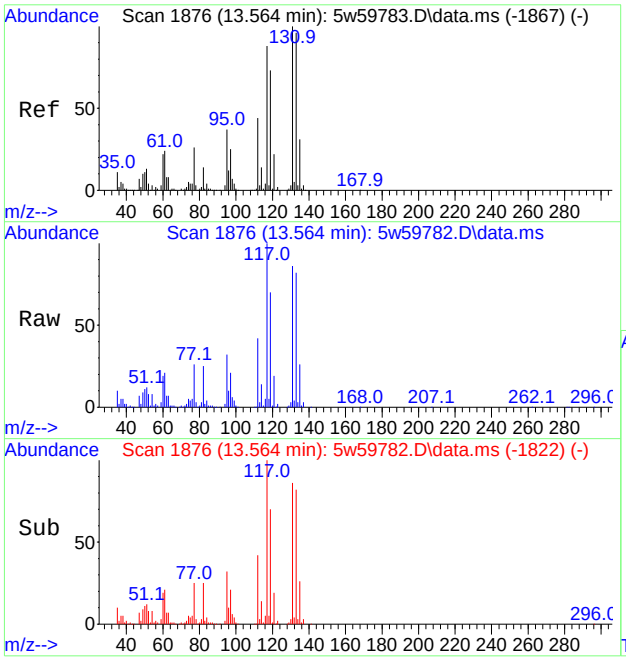


#76
OCTANE
Concen: 5.29 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 576898

Ion	Ratio	Lower	Upper
43	100		
85	44.8	14.6	74.6
57	43.5	13.7	73.7

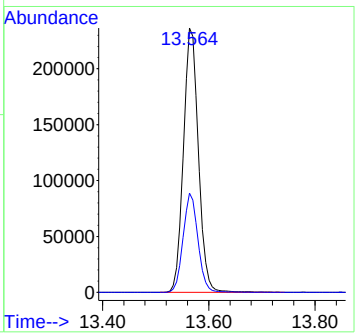


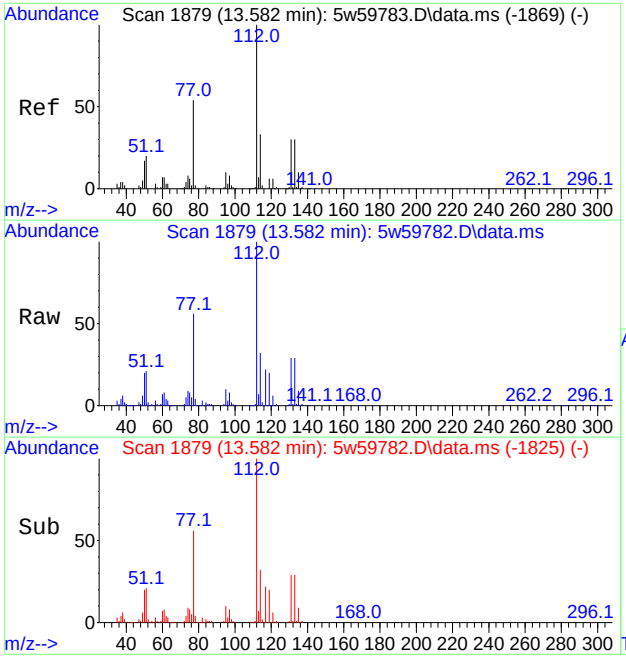


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.26 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:131 Resp: 463451

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

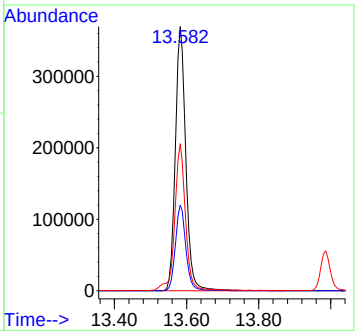


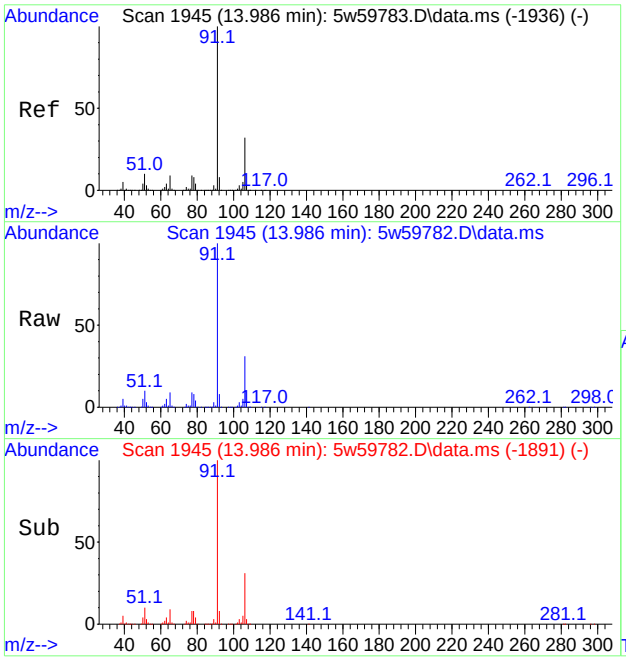


#78
CHLOROBENZENE
Concen: 5.17 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:112 Resp: 750075

Ion	Ratio	Lower	Upper
112	100		
114	32.5	2.6	62.6
77	57.4	25.4	85.4

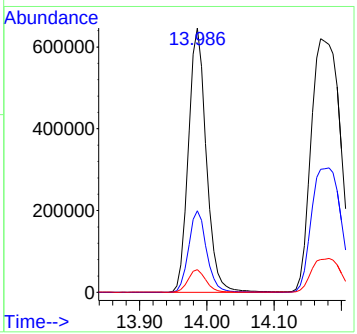


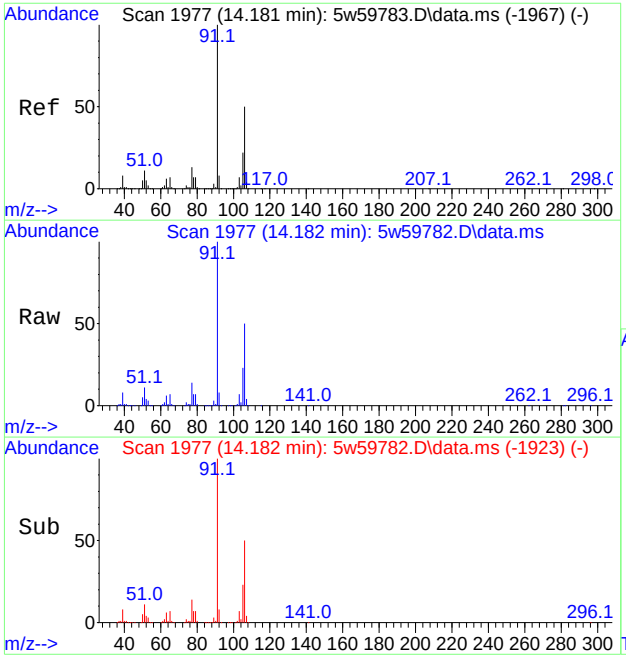


#79
ETHYLBENZENE
Concen: 5.80 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1198151

Ion	Ratio	Lower	Upper
91	100		
106	31.0	1.3	61.3
77	8.6	0.0	38.6

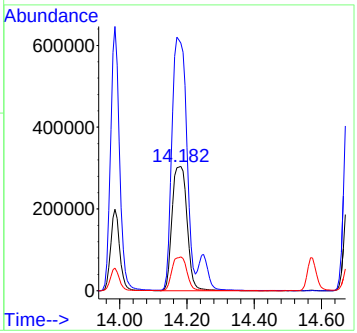


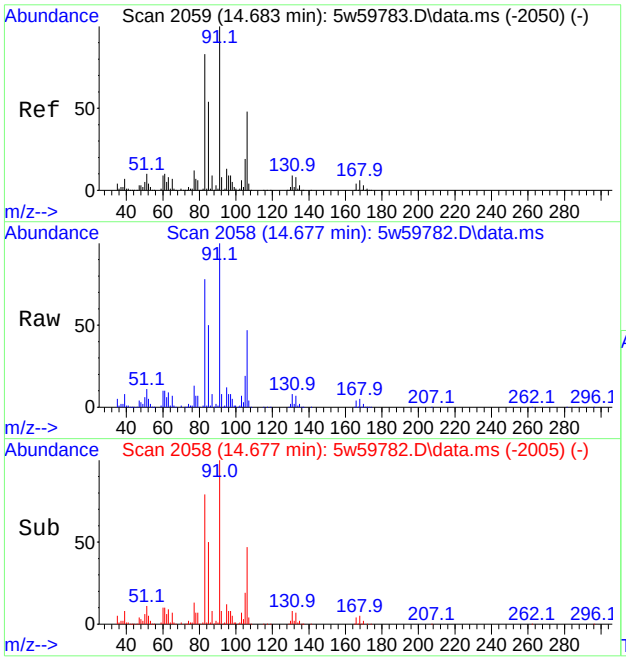


#80
m,p-XYLENE
Concen: 11.83 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 943241

Ion	Ratio	Lower	Upper
106	100		
91	199.4	171.0	231.0
77	27.3	0.0	56.7

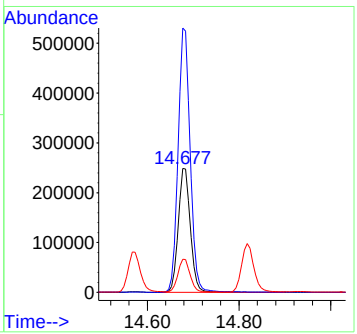


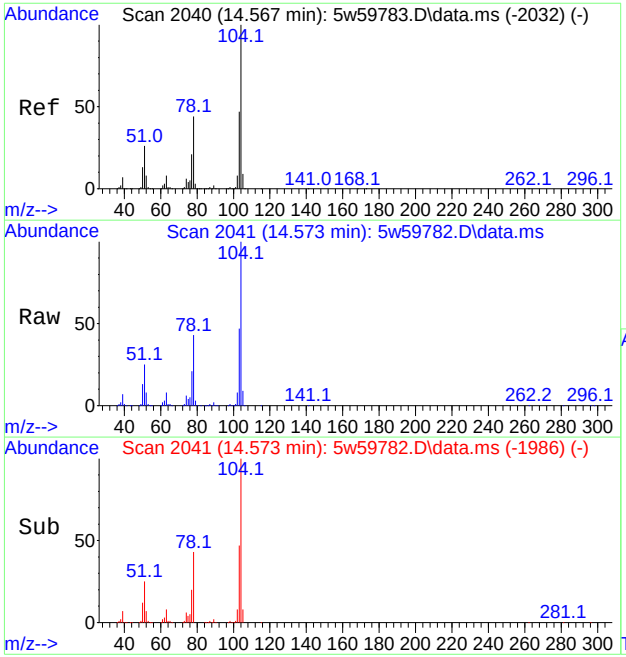


#81
o-XYLENE
Concen: 6.21 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 456348

Ion	Ratio	Lower	Upper
106	100		
91	212.0	181.6	241.6
77	27.1	0.0	56.6

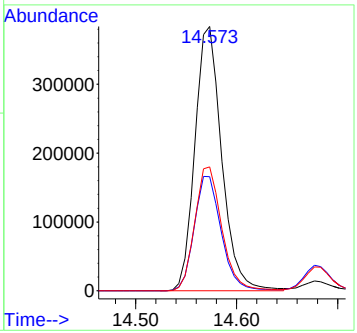


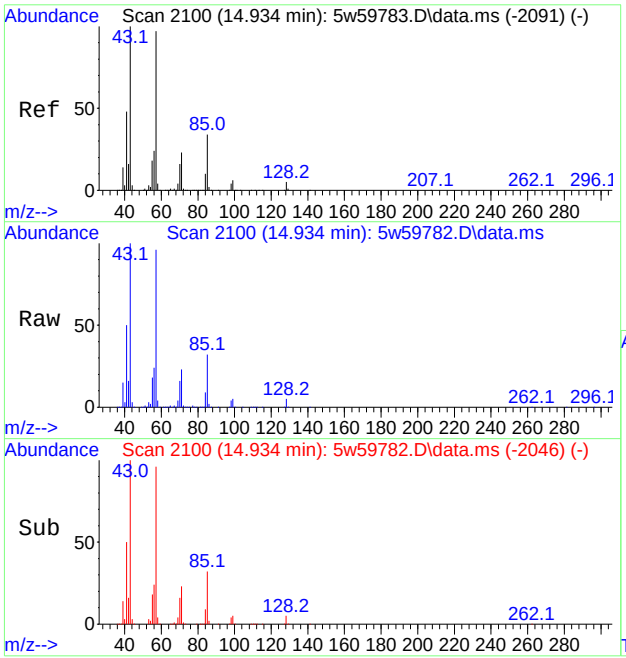


#82
STYRENE
Concen: 6.37 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:104 Resp: 711140

Ion	Ratio	Lower	Upper
104	100		
78	43.6	13.3	73.3
103	47.1	17.2	77.2

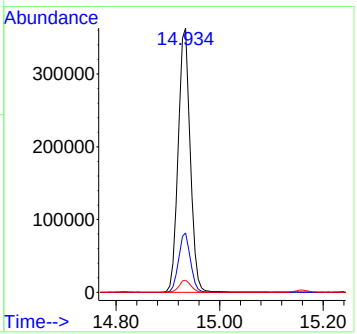


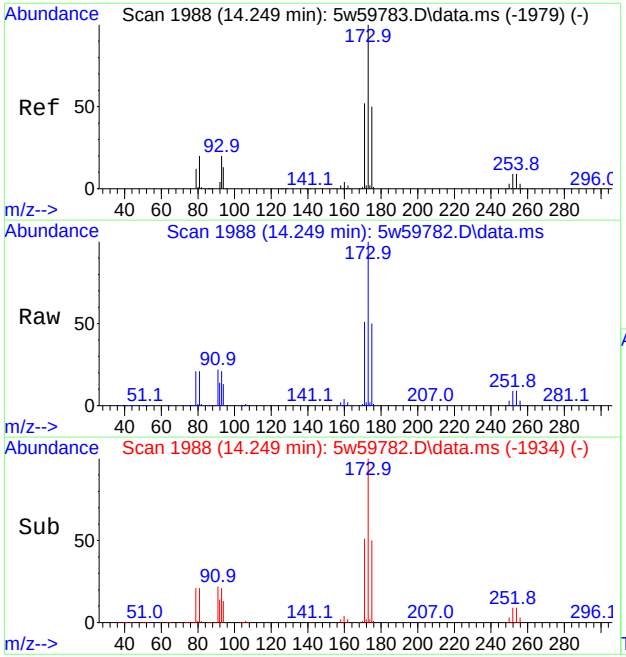


#83
NONANE
Concen: 5.44 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 586796

Ion	Ratio	Lower	Upper
43	100		
71	22.3	0.0	52.7
128	4.6	0.0	34.7

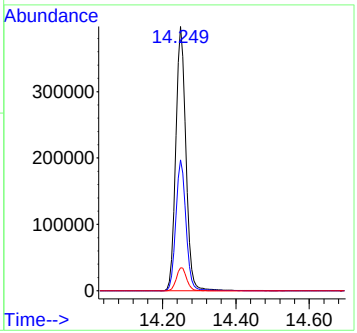


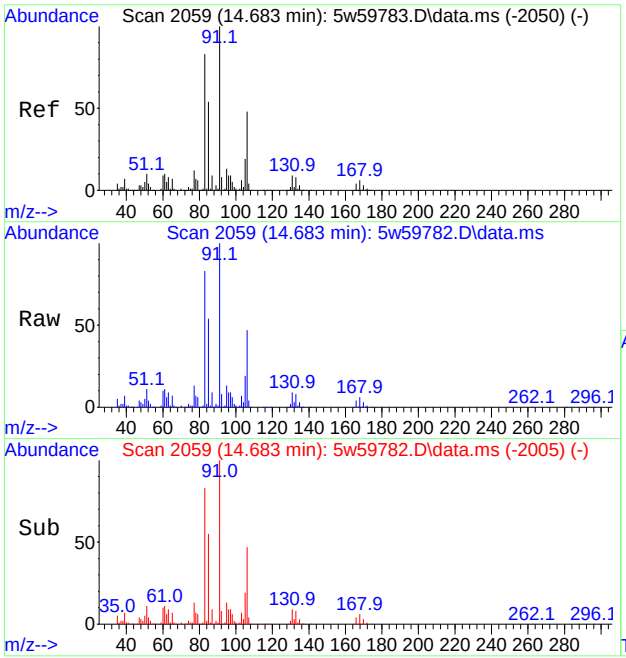


#84
BROMOFORM
Concen: 5.54 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:173 Resp: 765790

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	8.9	0.0	39.0

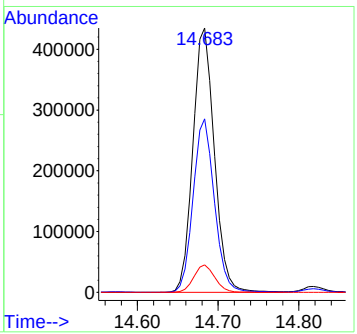


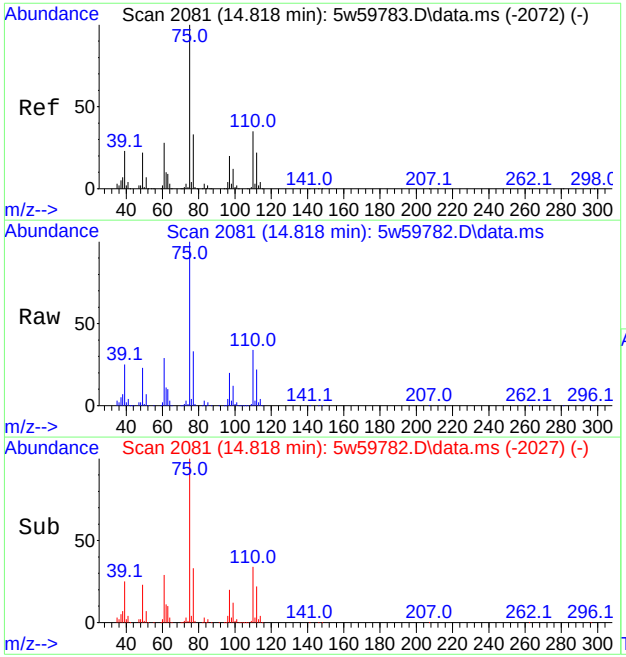


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 6.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 804240

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.2	95.2
131	10.3	0.0	40.3

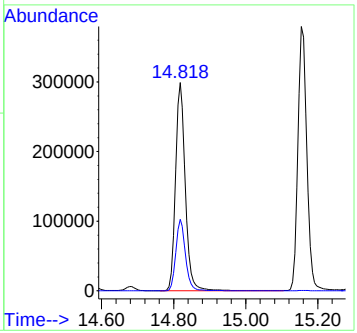


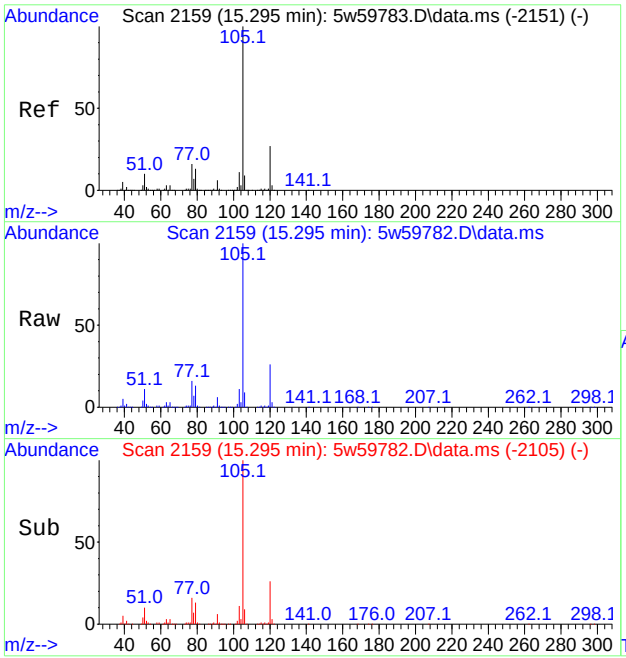


#87
1,2,3-TRICHLOROPROPANE
Concen: 5.21 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 563086

Ion	Ratio	Lower	Upper
75	100		
110	34.0	4.4	64.4

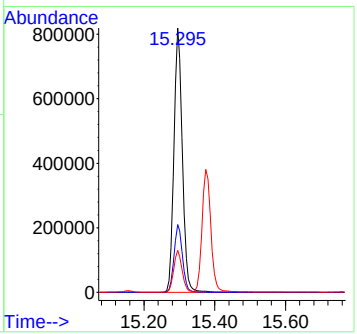


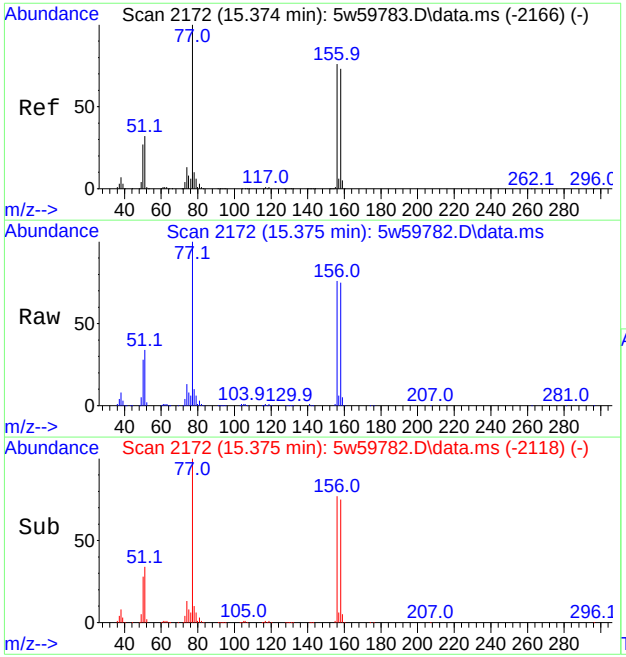


#88
ISOPROPYLBENZENE
Concen: 5.60 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1351649

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	15.5	0.0	45.6

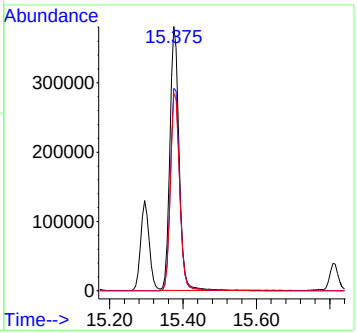


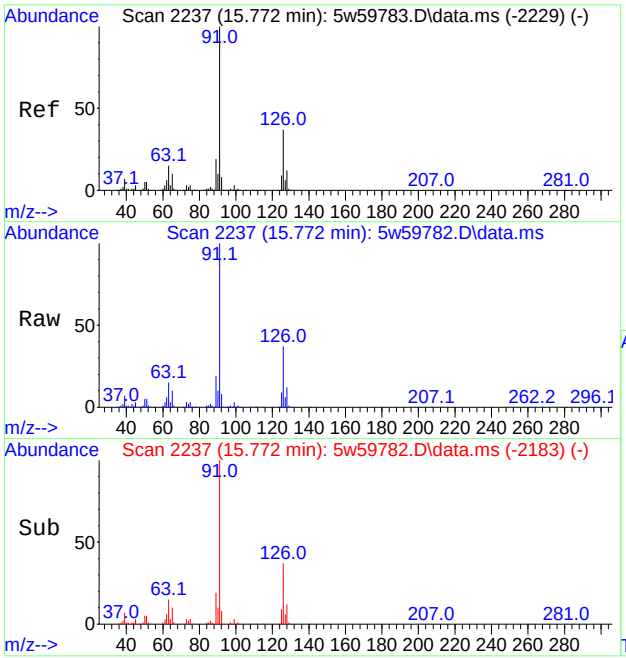


#89
BROMOBENZENE
Concen: 5.25 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 77 Resp: 663458

Ion	Ratio	Lower	Upper
77	100		
156	78.3	54.9	101.9
158	75.8	53.5	99.3

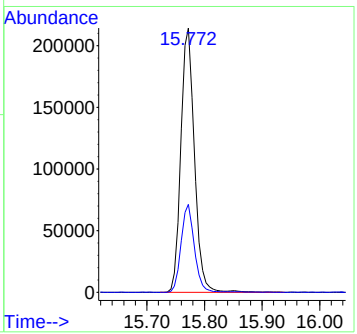


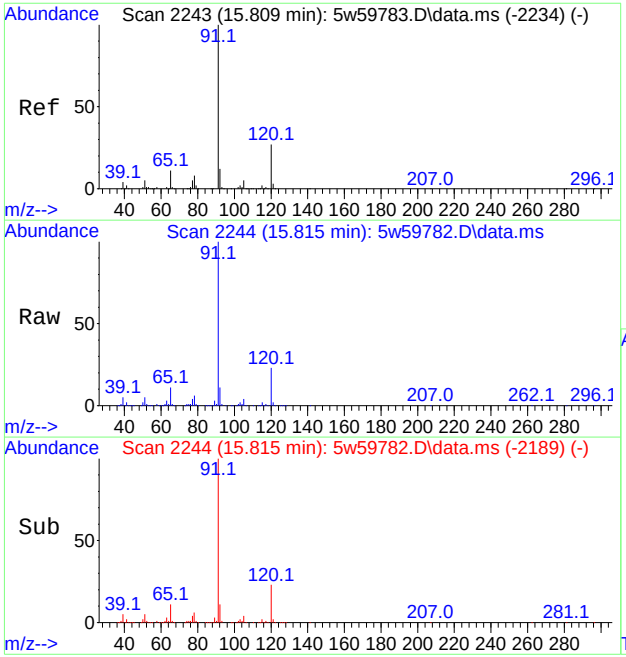


#90
2-CHLOROTOLUENE
Concen: 5.42 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:126 Resp: 351599

Ion	Ratio	Lower	Upper
126	100		
128	32.9	2.7	62.7

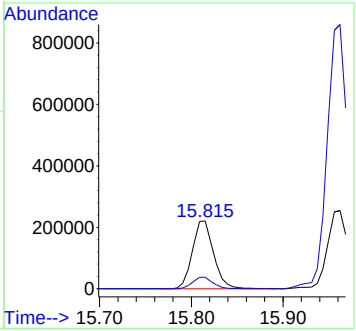


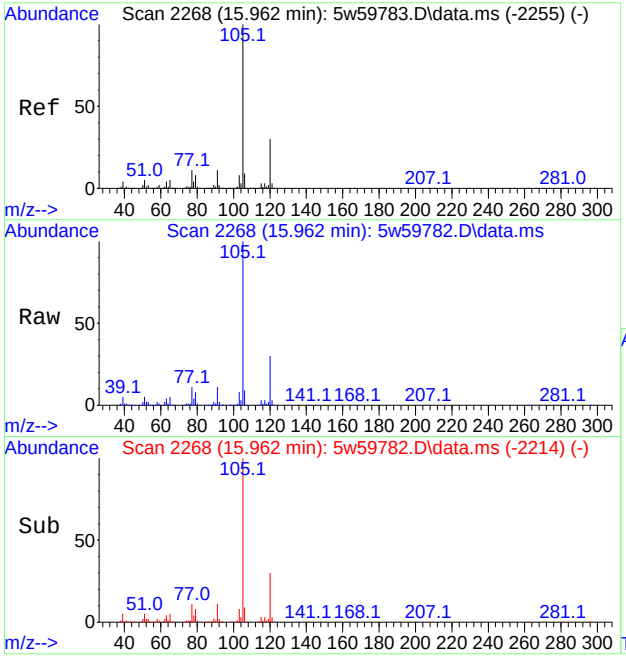


#91
n-PROPYLBENZENE
Concen: 5.54 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:120 Resp: 357322

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

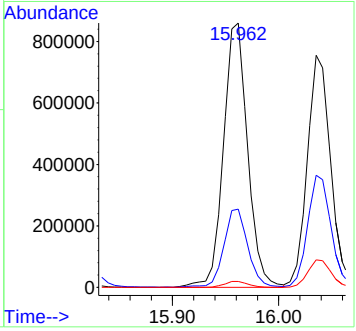


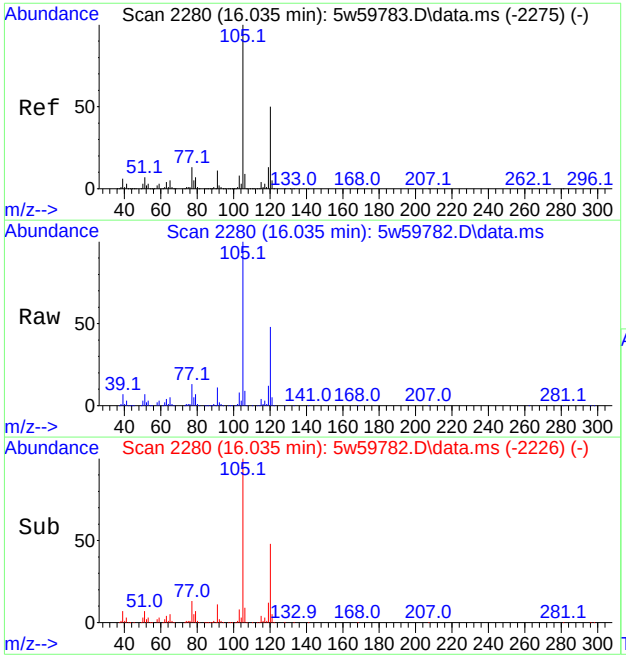


#92
4-ETHYLTOLUENE
Concen: 6.29 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1362882

Ion	Ratio	Lower	Upper
105	100		
120	29.5	0.0	59.9
119	2.3	0.0	32.3

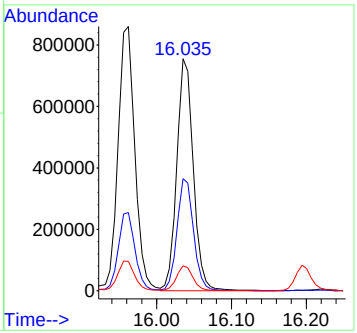


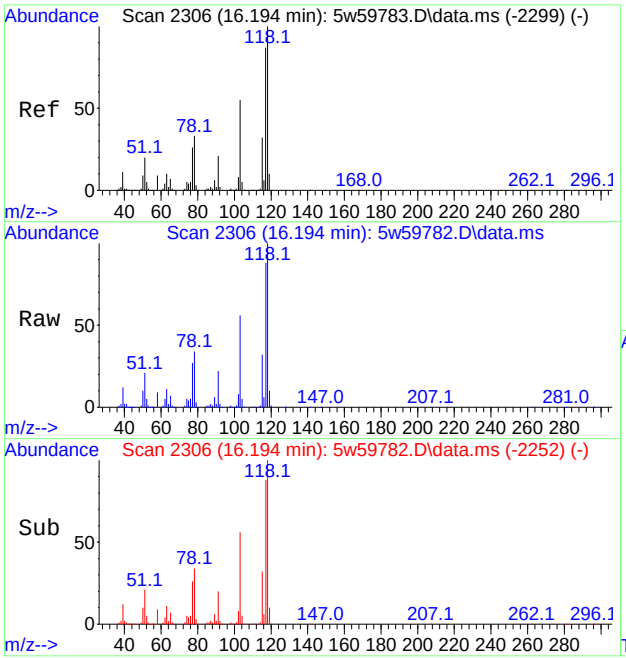


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.77 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1159491

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.4	79.4
91	10.9	0.0	40.8

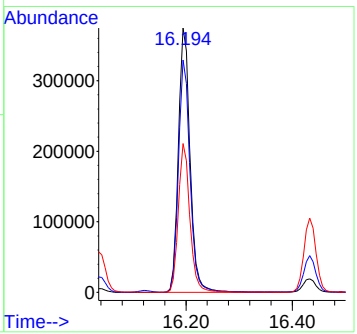


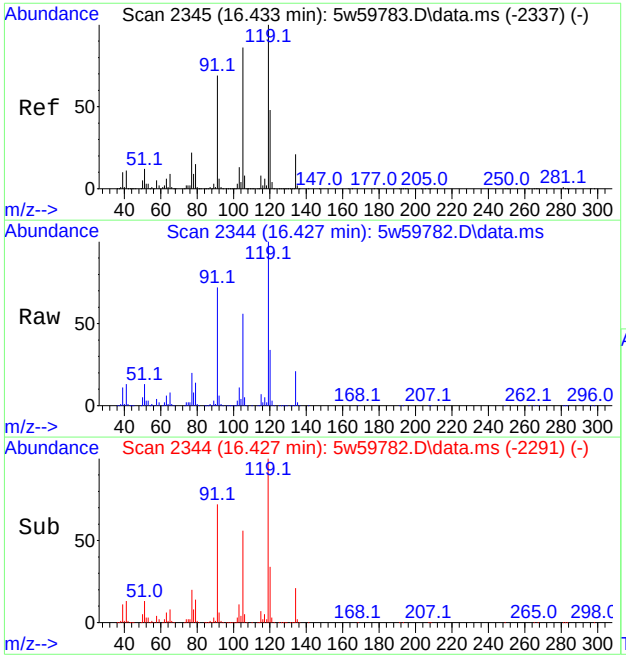


#94
ALPHA-METHYLSTYRENE
Concen: 5.89 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:118 Resp: 573224

Ion	Ratio	Lower	Upper
118	100		
117	87.5	60.9	113.1
103	55.8	38.6	71.8

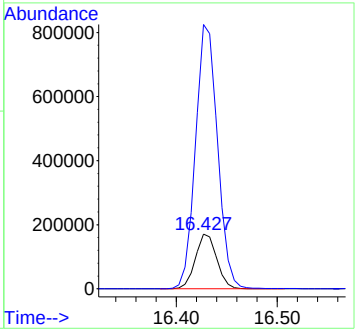


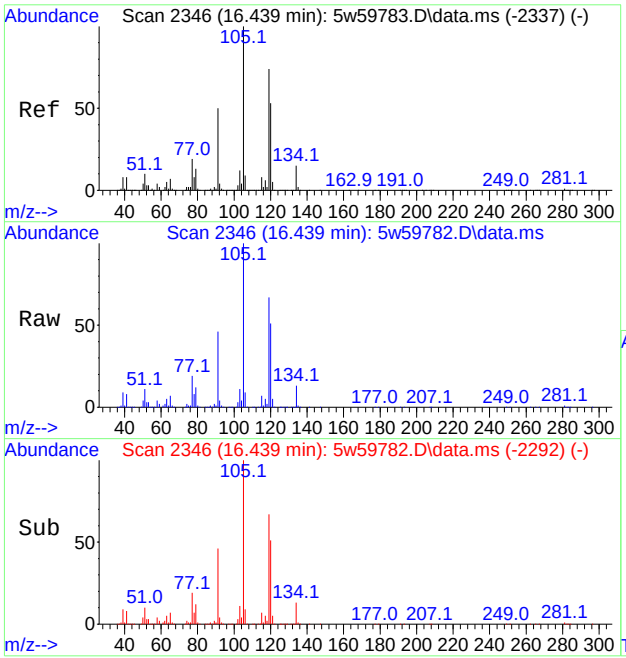


#95
tert-BUTYLBENZENE
Concen: 6.02 PPBV
RT: 16.427 min Scan# 2344
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 250823

Ion	Ratio	Lower	Upper
134	100		
119	500.9	459.3	519.3

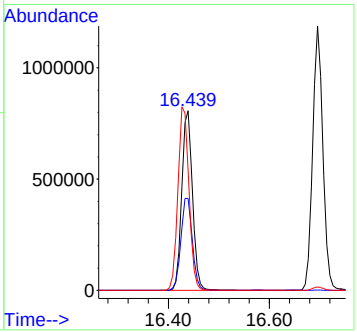


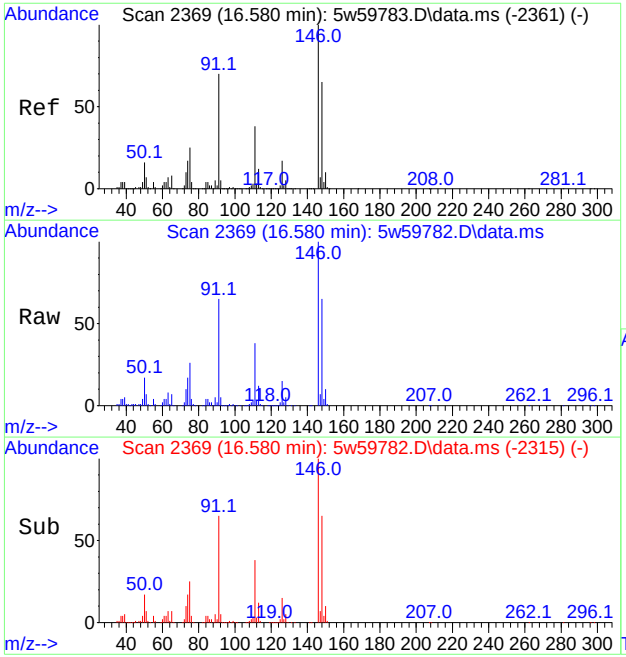


#96
1,2,4-TRIMETHYLBENZENE
Concen: 6.18 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1191915

Ion	Ratio	Lower	Upper
105	100		
120	55.1	25.7	85.7
119	105.4	75.7	135.7

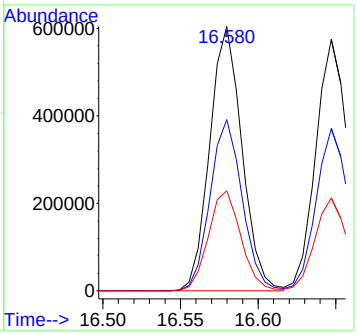


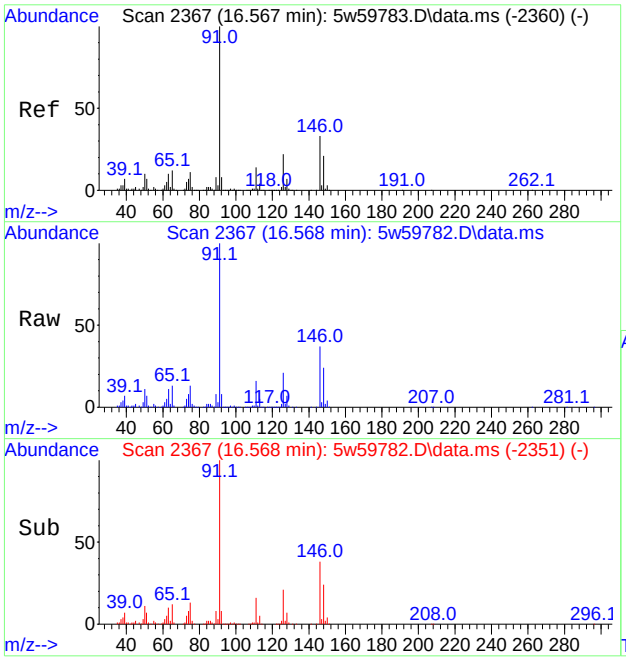


#97
m-DICHLOROBENZENE
Concen: 5.56 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 871935

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.8	94.8
111	38.2	8.2	68.2

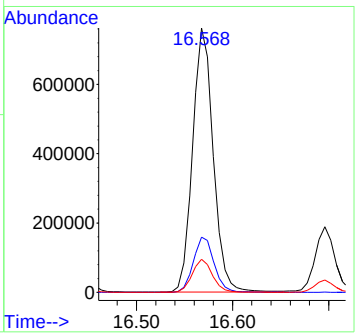


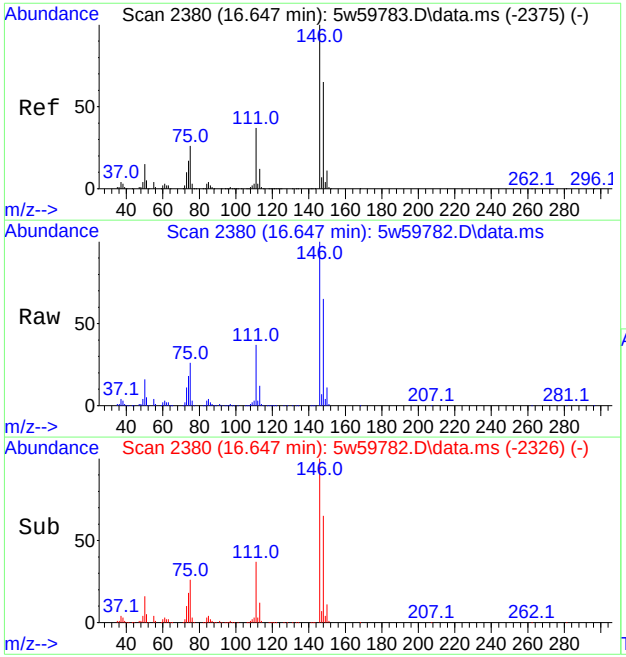


#98
BENZYL CHLORIDE
Concen: 6.44 PPBV
RT: 16.568 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1137176

Ion	Ratio	Lower	Upper
91	100		
126	21.2	0.0	51.7
65	12.5	0.0	42.2

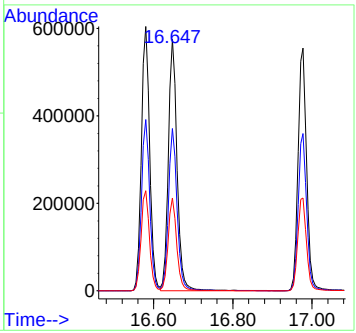


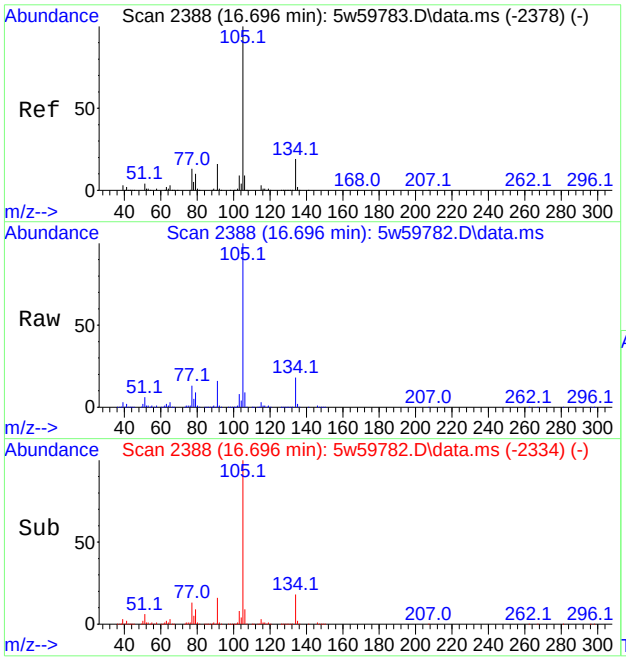


#99
p-DICHLOROBENZENE
Concen: 5.40 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 878264

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.6	94.6
111	36.4	6.7	66.7

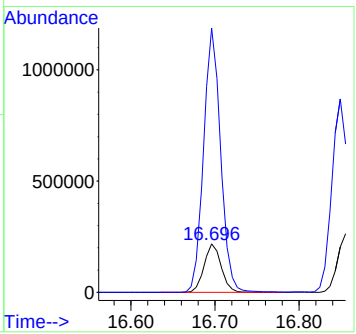


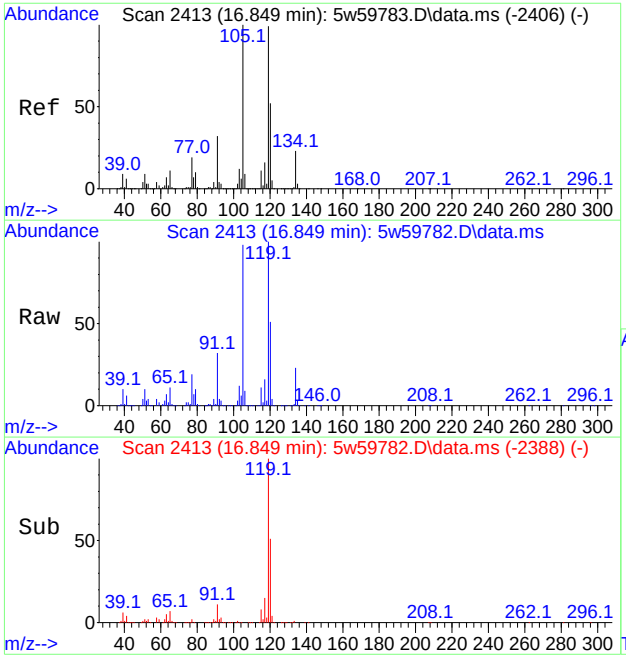


#100
sec-BUTYLBENZENE
Concen: 5.79 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 309649

Ion	Ratio	Lower	Upper
134	100		
105	540.4	502.5	562.5

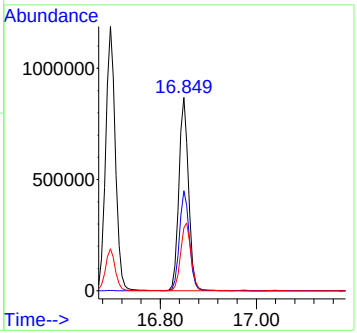


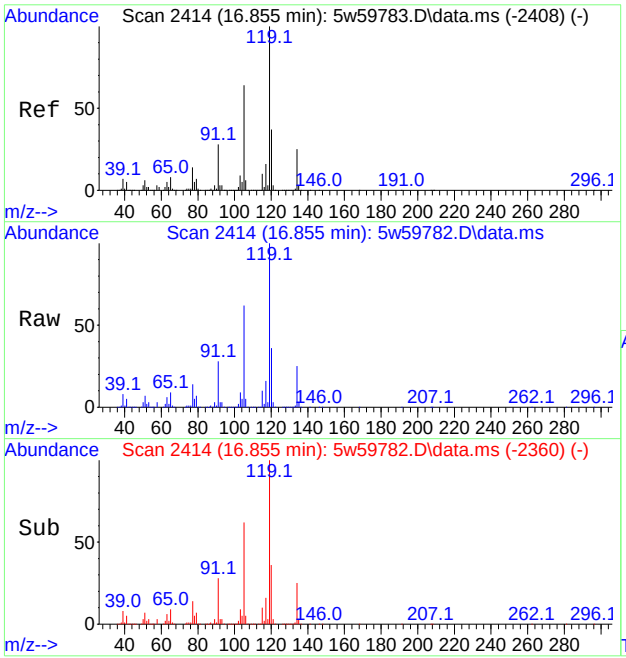


#101
1,2,3-TRIMETHYLBENZENE
Concen: 5.87 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1209627

Ion	Ratio	Lower	Upper
105	100		
120	53.0	23.5	83.5
91	37.7	7.4	67.4

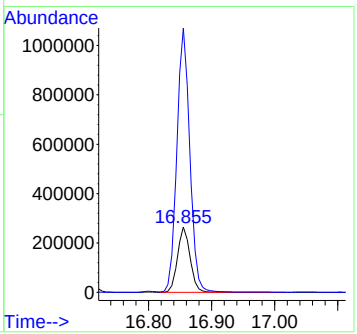


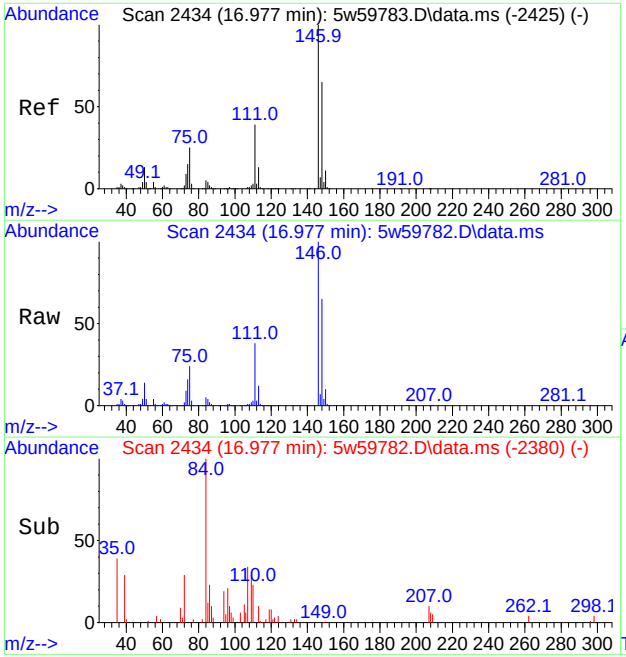


#102
p-ISOPROPYLTOLUENE
Concen: 6.01 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 367882

Ion	Ratio	Lower	Upper
134	100		
119	416.3	377.7	437.7

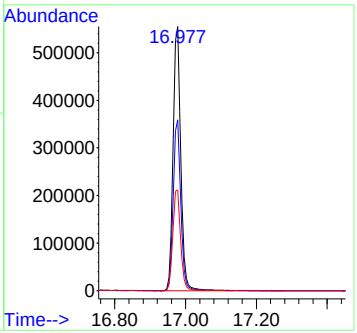


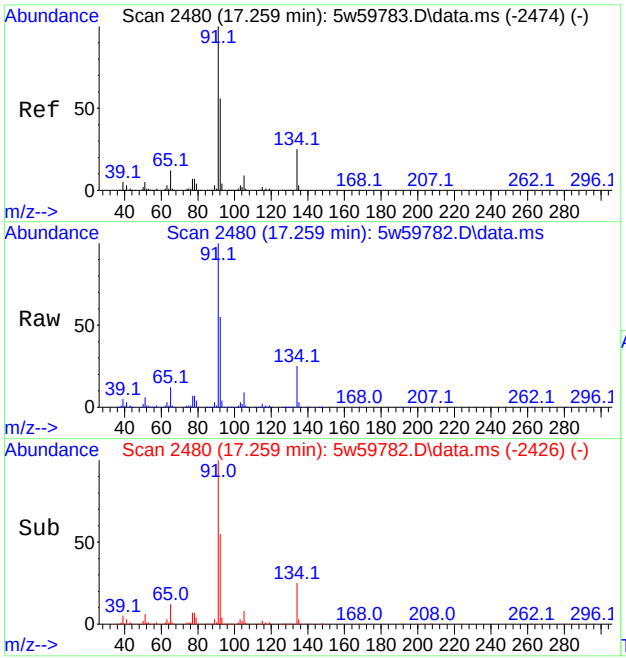


#103
o-DICHLOROBENZENE
Concen: 5.25 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 831952

Ion	Ratio	Lower	Upper
146	100		
148	64.2	34.3	94.3
111	39.5	9.2	69.2

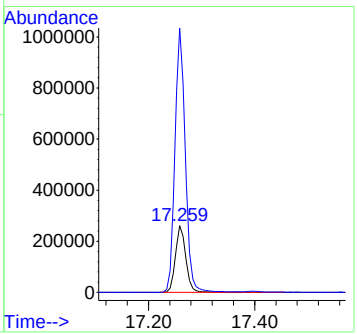


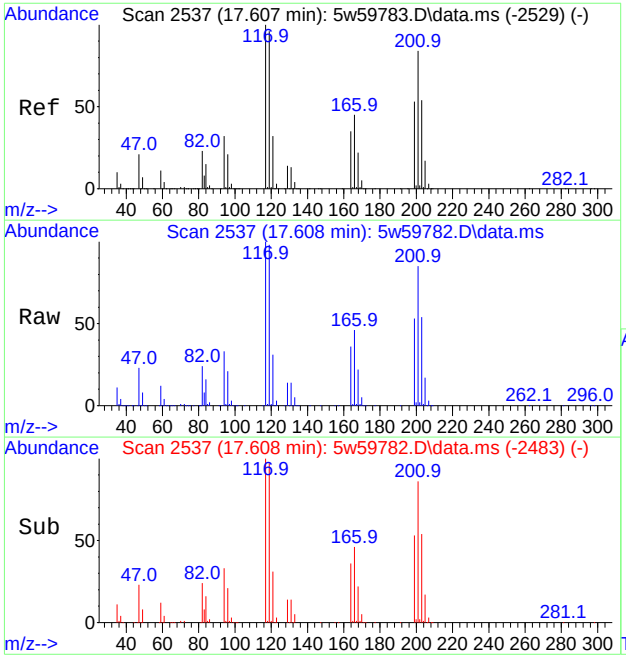


#104
n-BUTYLBENZENE
Concen: 6.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 353476

Ion	Ratio	Lower	Upper
134	100		
91	394.8	363.1	423.1

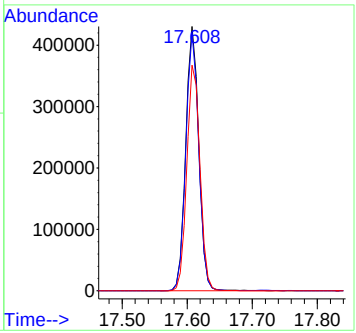


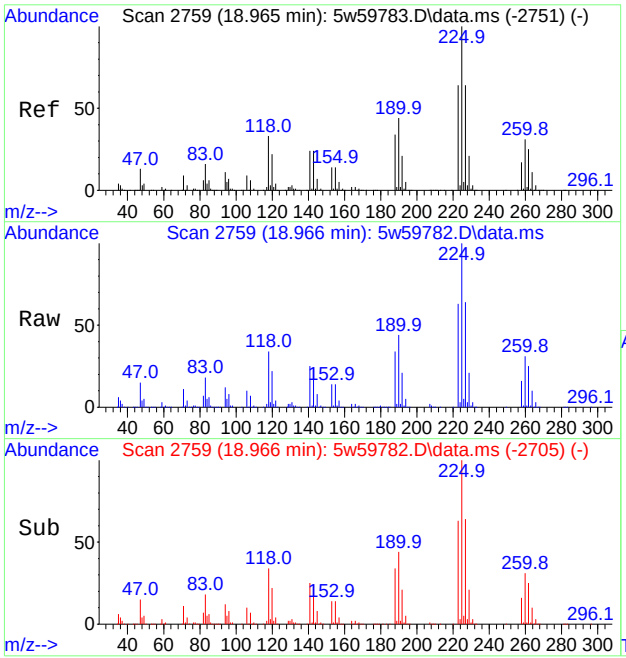


#105
HEXACHLOROETHANE
Concen: 5.71 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 597723

Ion	Ratio	Lower	Upper
117	100		
119	96.4	67.2	124.8
201	86.1	61.1	113.5

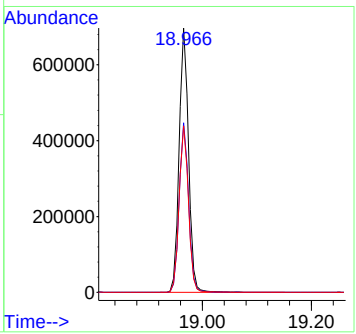


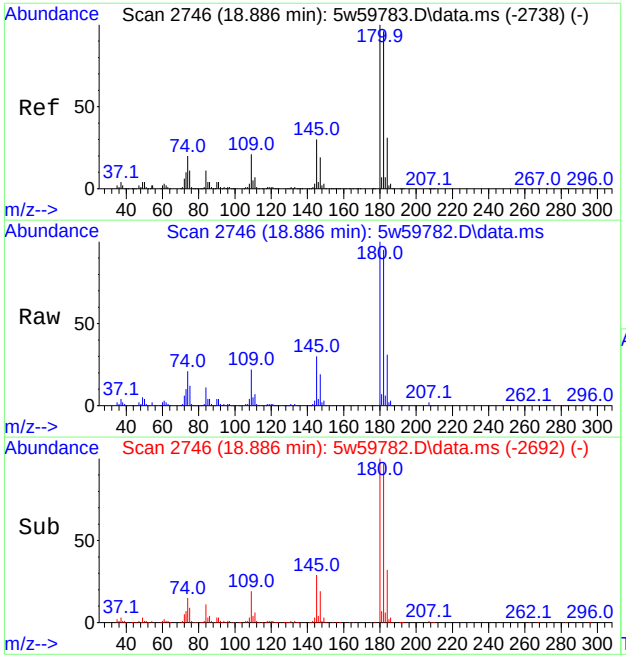


#106
HEXACHLOROBUTADIENE
Concen: 5.13 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:225 Resp: 827665

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	62.9	33.3	93.3

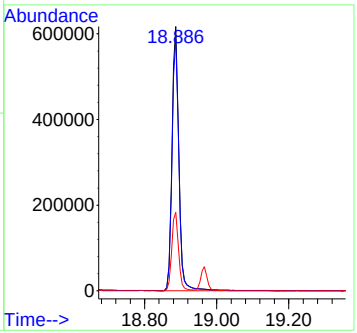


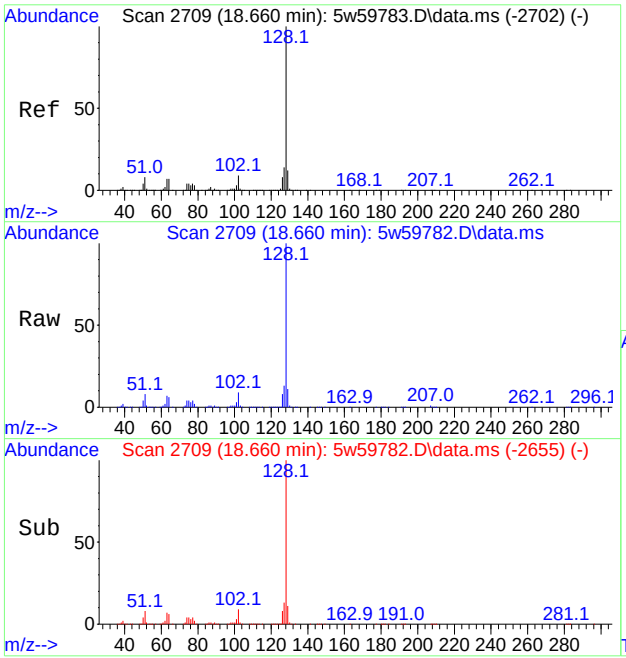


#107
1,2,4-TRICHLOROBENZENE
Concen: 7.16 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:180 Resp: 807736

Ion	Ratio	Lower	Upper
180	100		
182	95.5	65.4	125.4
145	29.5	0.0	59.4

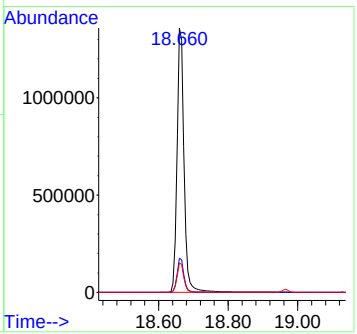


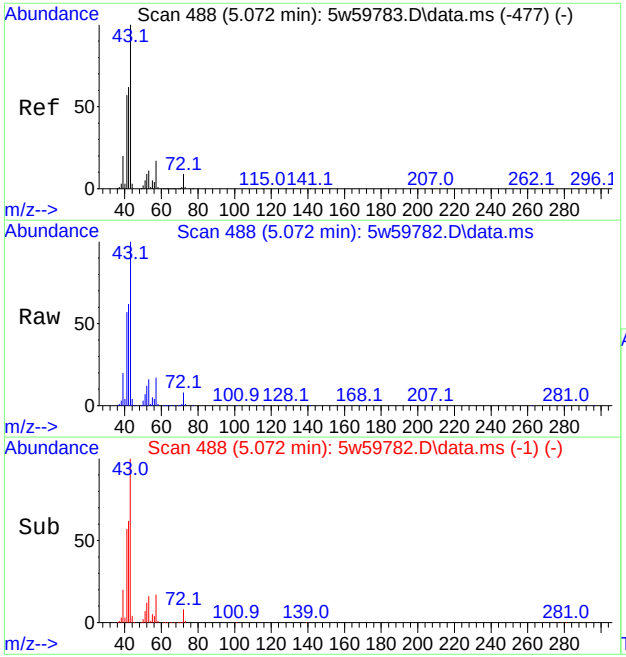


#108
NAPHTHALENE
Concen: 7.30 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:128 Resp: 1912544

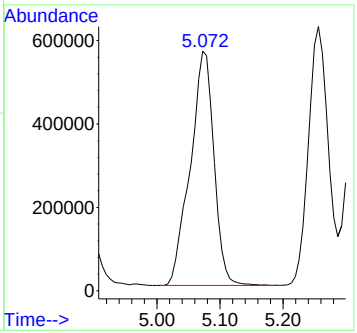
Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	43.3
129	11.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 4.29 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:TIC Resp: 1469674



7.7.5

7

Manual Integration Approval Summary

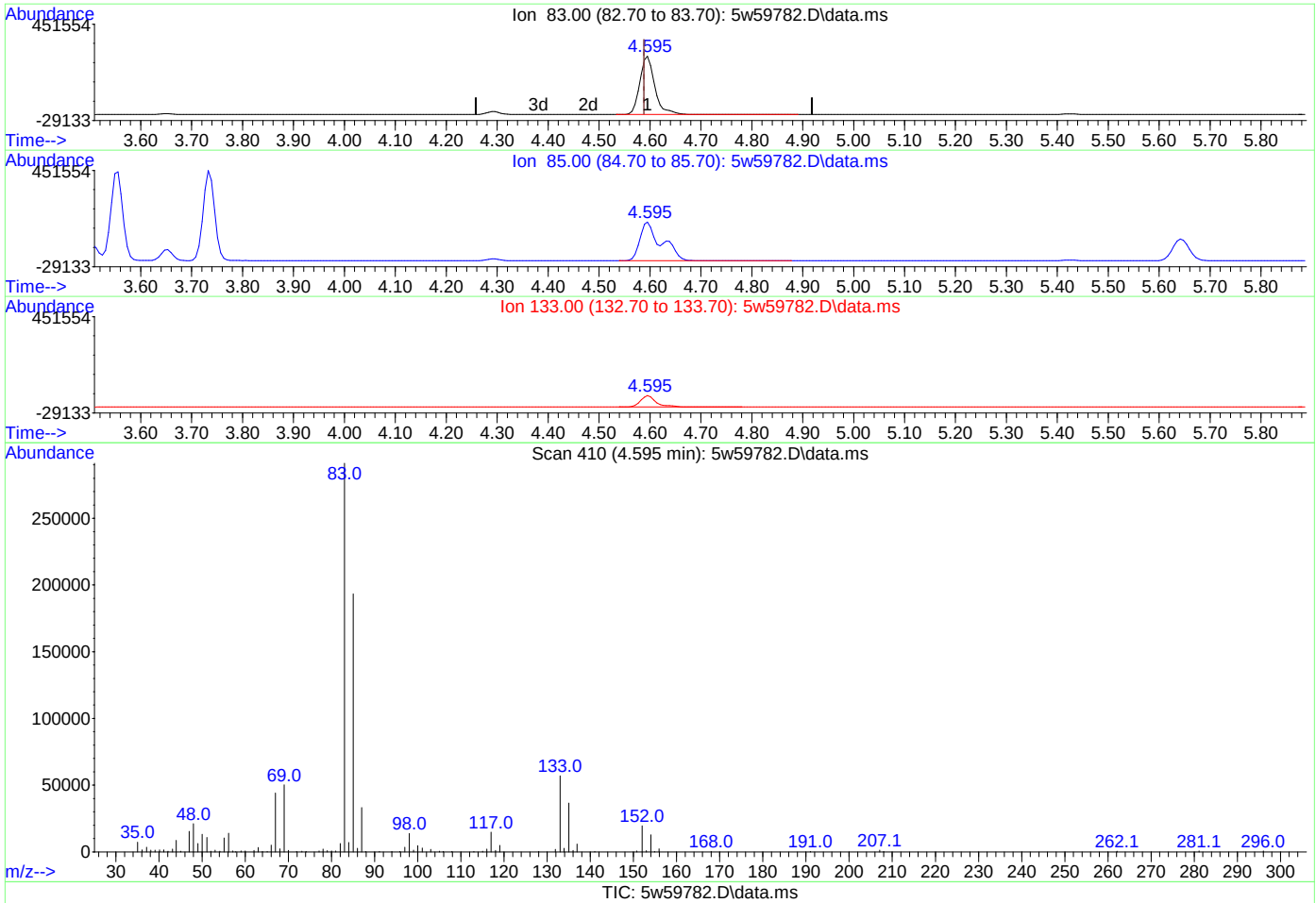
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59782.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 06:57 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.43	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV

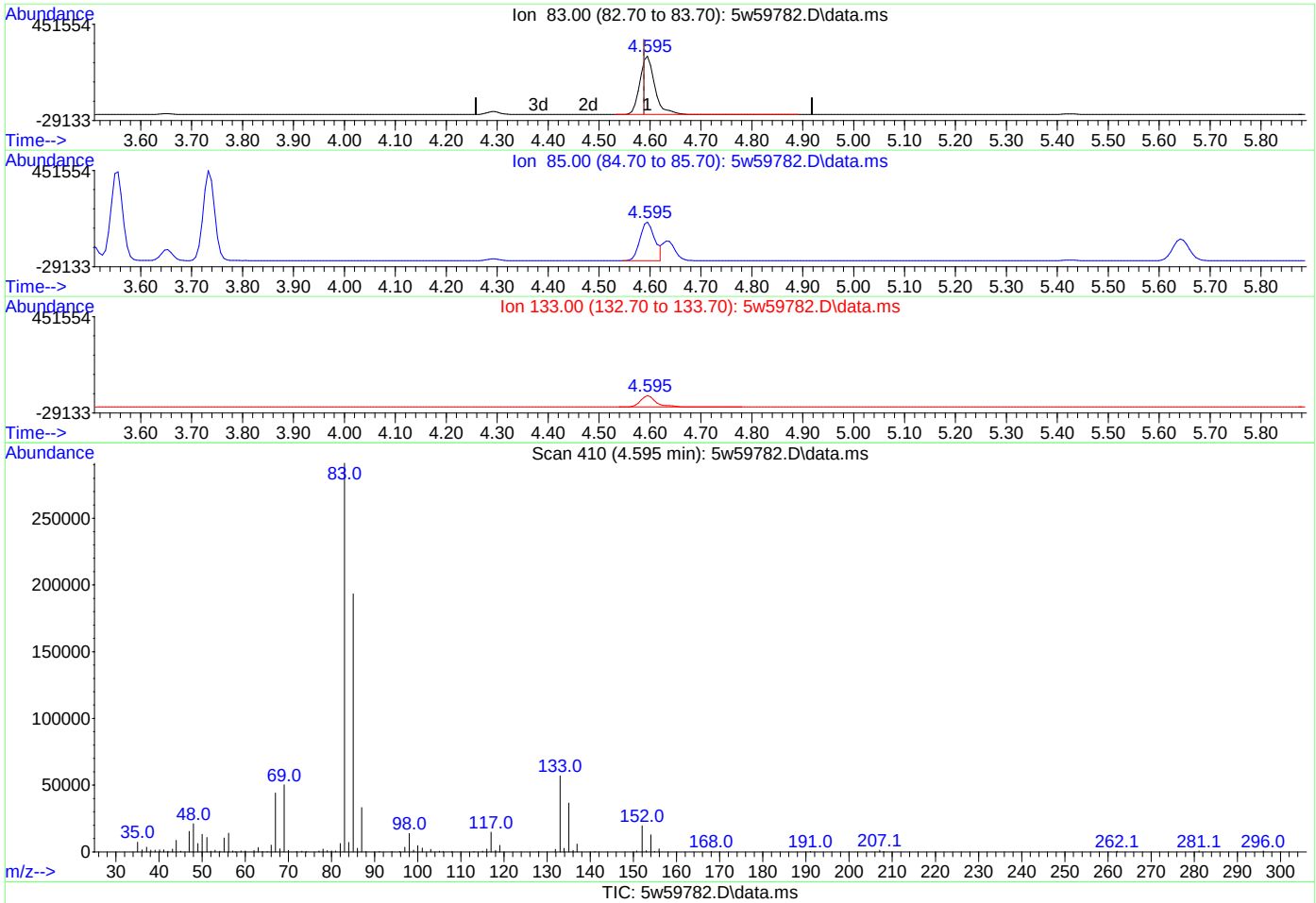
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.31#
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV m

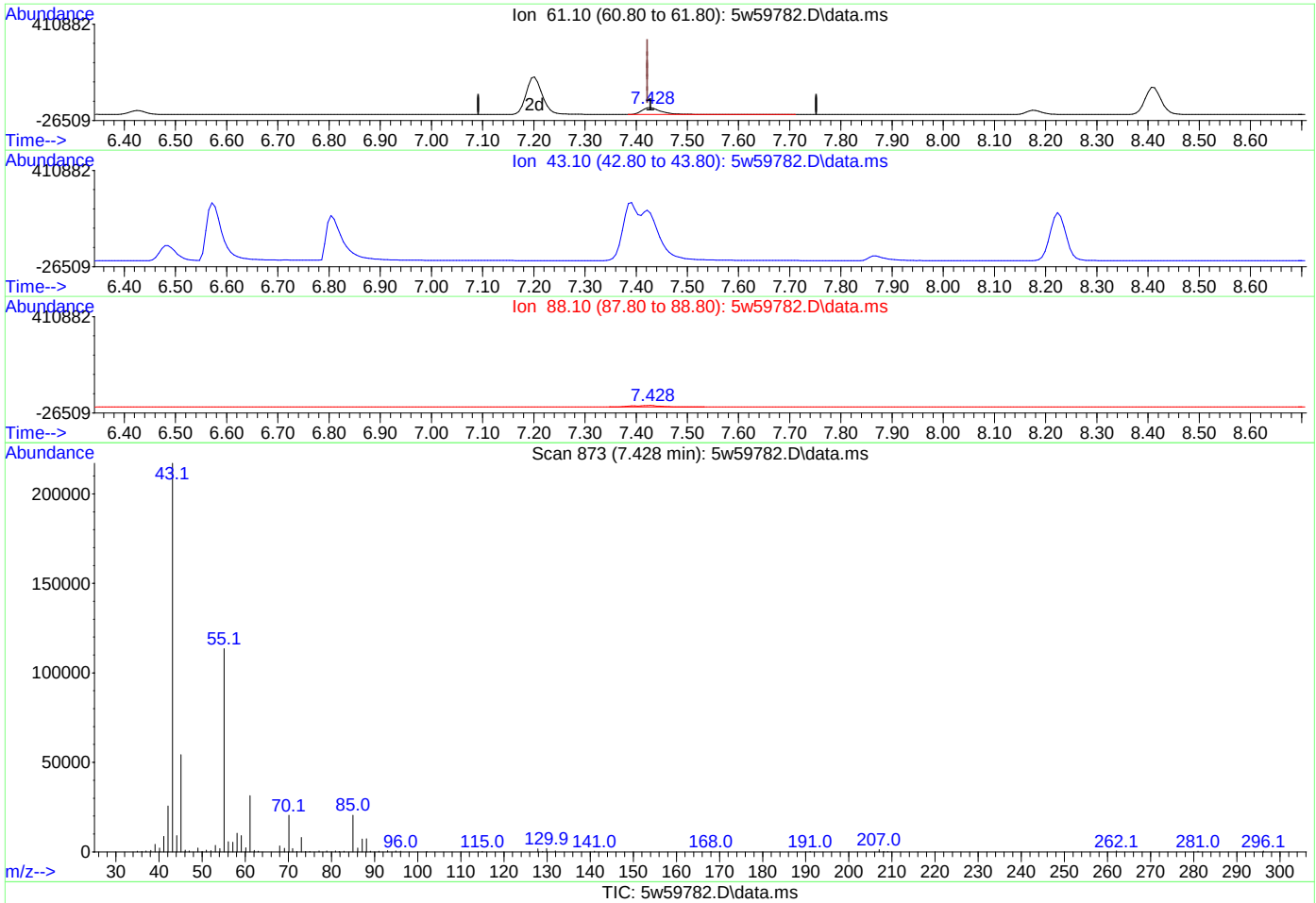
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.72
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV

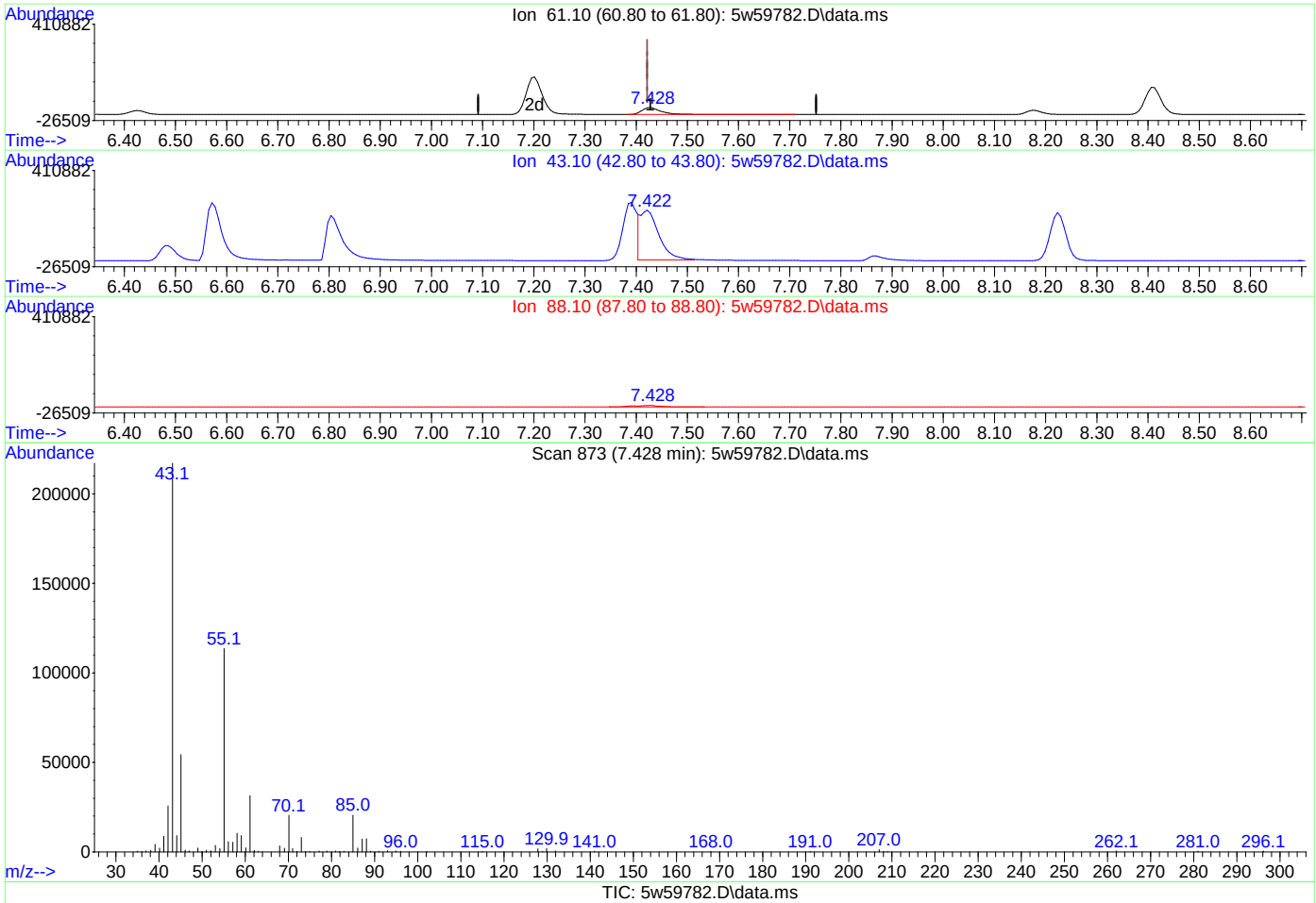
response 87258

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	32.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV m

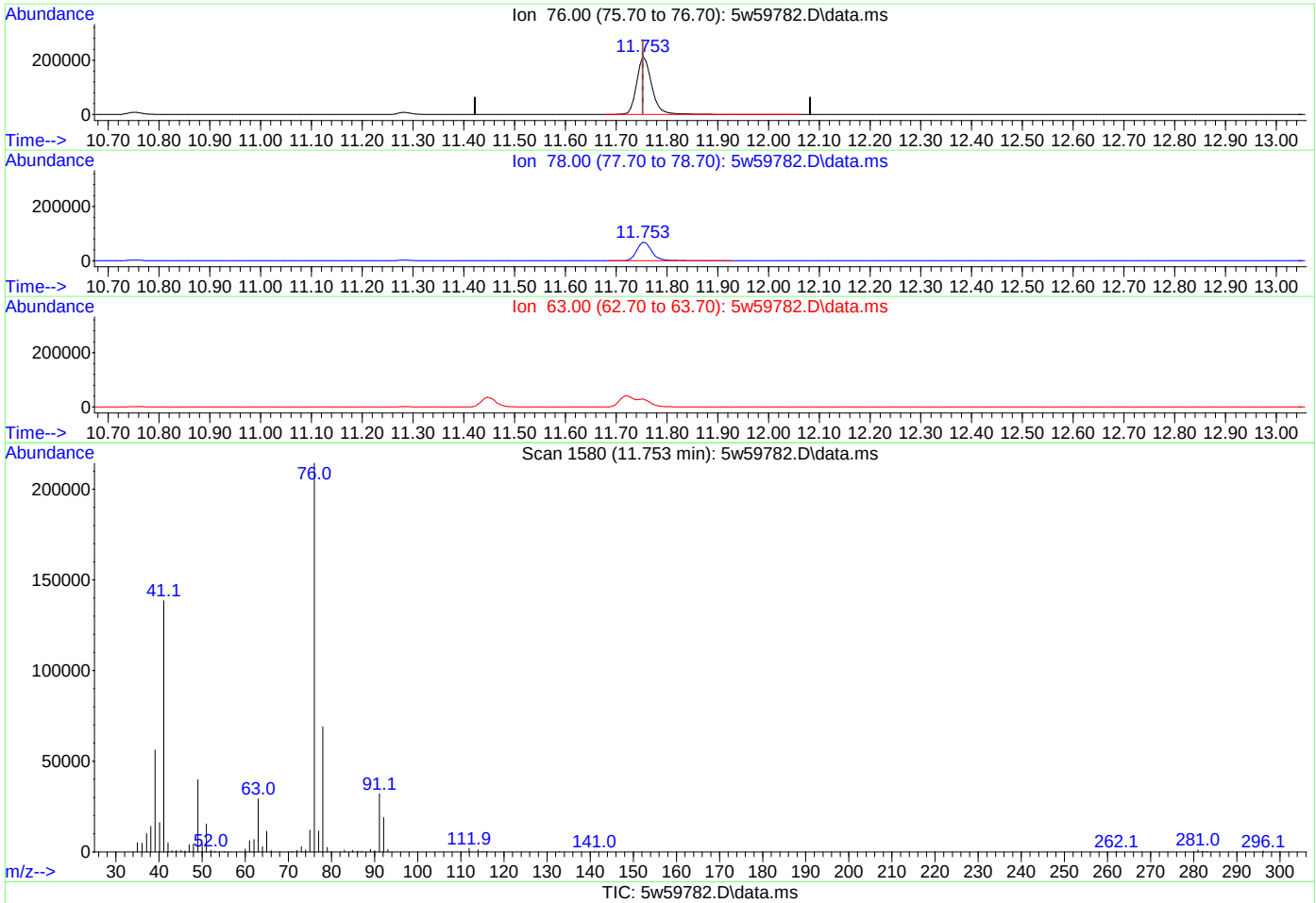
response 87258

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	636.36#
88.10	34.50	32.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV

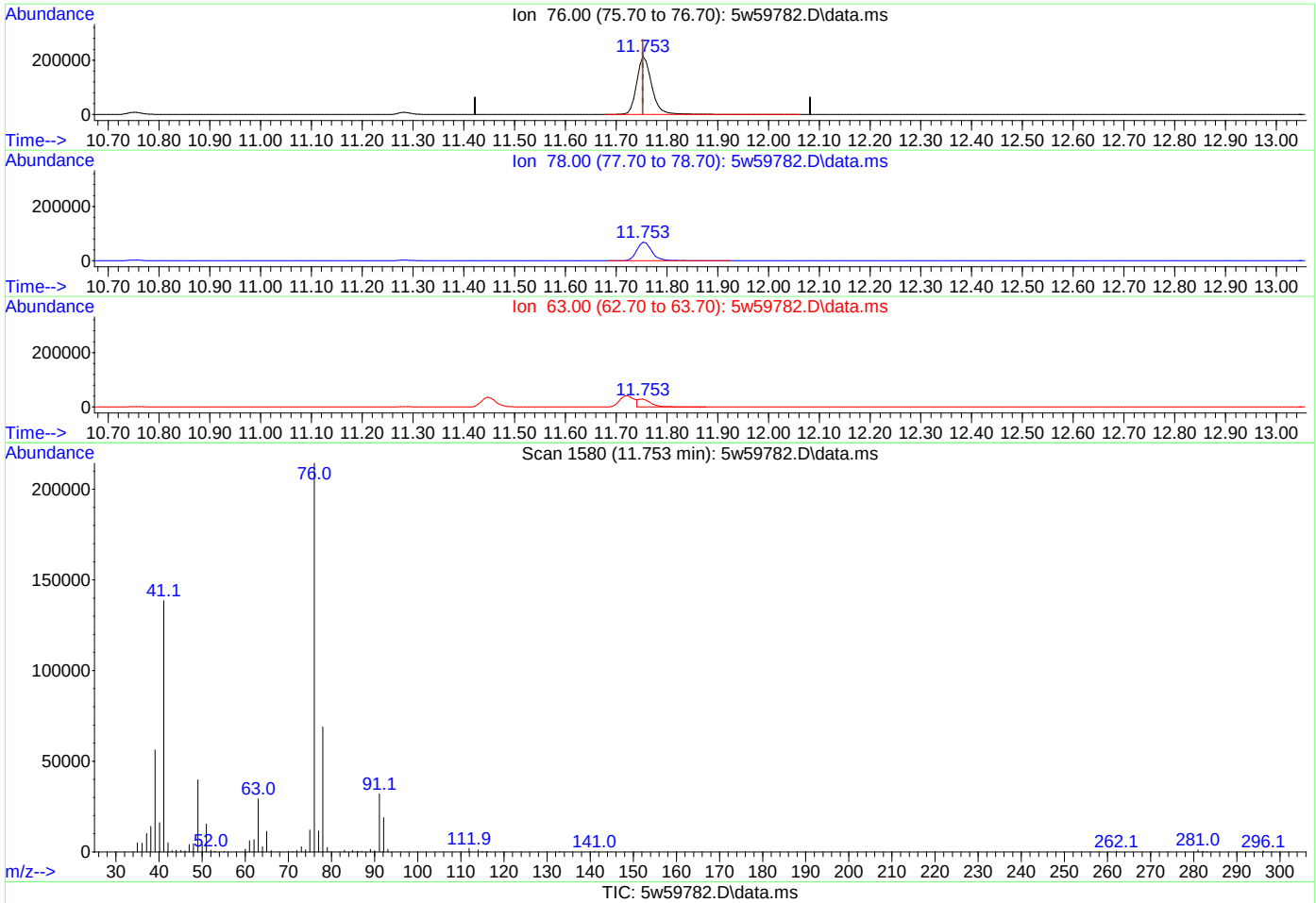
response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV m

response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	11.22
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	458592	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2019630	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1088548	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	459307	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1400456	10.41	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.10%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	318291	5.37	PPBV	100
3) FREON 152A	3.445	65	311212	8.83	PPBV	100
4) CHLORODIFLUOROMETHANE	3.475	67	154727	9.59	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.506	116	762524	10.03	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.549	85	1445515	9.55	PPBV	100
7) PROPYLENE	3.500	41	343468	8.81	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1103467	8.04	PPBV	100
9) FREON 114	3.732	85	1375524	10.56	PPBV	100
10) CHLOROMETHANE	3.665	52	141881	8.80	PPBV	100
11) VINYL CHLORIDE	3.818	62	472875	9.34	PPBV	100
12) 1,3-BUTADIENE	3.910	54	284232	8.35	PPBV	100
13) n-BUTANE	3.946	43	454503	7.37	PPBV	100
14) BROMOMETHANE	4.106	94	500092	10.05	PPBV	100
15) CHLOROETHANE	4.222	64	205309	8.90	PPBV	100
16) DICHLOROFLUOROMETHANE	4.289	67	1019855	8.67	PPBV	100
17) ACETONITRILE	4.479	41	252958	7.21	PPBV	100
18) ACROLEIN	4.571	56	155868	8.51	PPBV	100
19) FREON 123	4.589	83	1157483m	9.93	PPBV	
20) FREON 123A	4.632	117	701588	9.69	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1209415	7.29	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	906732	7.67	PPBV	100
23) ACETONE	4.675	58	180987	8.59	PPBV	100
24) PENTANE	5.072	42	444915	7.13	PPBV	100
25) IODOMETHANE	5.256	142	1538968	10.06	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	488317	8.97	PPBV	100
27) CARBON DISULFIDE	5.672	76	1343447	9.35	PPBV	100
28) ETHANOL	4.320	45	168471	7.22	PPBV	100
29) BROMOETHENE	4.479	106	508476	10.65	PPBV	100
30) ACRYLONITRILE	5.042	52	310247	8.54	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	424759	8.70	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	218615	9.74	PPBV	100
33) FREON 113	5.641	151	865046	9.06	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	496473	8.93	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.378	59	968852	8.31	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.479	73	1323434	9.62	PPBV	100
37) TETRAHYDROFURAN	7.856	72	199227	10.87	PPBV	100
38) HEXANE	7.385	57	758015	9.88	PPBV	100
39) VINYL ACETATE	6.565	86	82624	9.01	PPBV	100
40) 1,1-DICHLOROETHANE	6.424	63	931030	9.18	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	216147	11.31	PPBV	100
42) cis-1,2-DICHLOROETHYLENE	7.195	96	529578	9.24	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	234936	11.29	PPBV	100
44) ETHYL ACETATE	7.421	61	169787m	10.80	PPBV	
45) METHYL ACRYLATE	7.409	55	948651	10.40	PPBV	100
46) CHLOROFORM	7.476	83	1113306	9.51	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	877406	9.73	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.406	97	1165134	9.11	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) CARBON TETRACHLORIDE	8.994	117	1296040	9.17	PPBV	100
50) 1,2-DICHLOROETHANE	8.174	62	793795	9.55	PPBV	100
52) BENZENE	8.853	78	1461752	10.93	PPBV	100
53) CYCLOHEXANE	9.110	84	573806	10.80	PPBV	100
54) 2,3-DIMETHYLPENTANE	9.348	71	294377	10.99	PPBV	100
55) TRICHLOROETHYLENE	9.887	95	733457	10.30	PPBV	100
56) 1,2-DICHLOROPROPANE	9.654	63	587338	10.35	PPBV	100
57) DIBROMOMETHANE	9.630	174	777595	9.96	PPBV	100
58) ETHYL ACRYLATE	9.679	55	1150308	11.15	PPBV	100
59) BROMODICHLOROMETHANE	9.850	83	1291376	10.19	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	9.911	57	2382864	10.46	PPBV	100
61) 1,4-DIOXANE	9.899	88	335180	12.16	PPBV	100
62) HEPTANE	10.187	43	809108	9.62	PPBV	100
63) METHYL METHACRYLATE	10.107	69	505563	12.20	PPBV	100
64) METHYL ISOBUTYL KETONE	10.792	58	480676	11.29	PPBV	100
65) cis-1,3-DICHLOROPROPENE	10.749	75	988291	11.23	PPBV	87
66) TOLUENE	11.722	92	1078428	11.29	PPBV	100
67) 1,3-DICHLOROPROPANE	11.753	76	866163m	10.80	PPBV	
68) trans-1,3-DICHLOROPROPENE	11.282	75	890794	11.02	PPBV	100
69) 1,1,2-TRICHLOROETHANE	11.447	83	593800	11.35	PPBV	100
71) 2-HEXANONE	12.010	58	708433	12.76	PPBV	100
72) ETHYL METHACRYLATE	12.022	69	915611	13.03	PPBV	100
73) TETRACHLOROETHYLENE	12.872	164	851797	10.39	PPBV	100
74) DIBROMOCHLOROMETHANE	12.150	129	1470928	10.66	PPBV	100
75) 1,2-DIBROMOETHANE	12.395	107	1182589	11.73	PPBV	100
76) OCTANE	12.744	43	1128893	9.72	PPBV	100
77) 1,1,1,2-TETRACHLOROETHANE	13.564	131	951903	10.52	PPBV	100
78) CHLOROBENZENE	13.582	112	1532486	10.30	PPBV	100
79) ETHYLBENZENE	13.986	91	2426187	11.38	PPBV	100
80) m,p-XYLENE	14.181	106	1894377	23.39	PPBV	100
81) o-XYLENE	14.683	106	921132	12.40	PPBV	100
82) STYRENE	14.567	104	1485661	13.06	PPBV	100
83) NONANE	14.934	43	1167938	10.14	PPBV	100
84) BROMOFORM	14.249	173	1553327	10.92	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	14.683	83	1606320	12.27	PPBV	100
87) 1,2,3-TRICHLOROPROPANE	14.818	75	1108756	9.96	PPBV	100
88) ISOPROPYLBENZENE	15.295	105	2737713	11.04	PPBV	100
89) BROMOBENZENE	15.374	77	1323542	10.19	PPBV	100
90) 2-CHLOROTOLUENE	15.772	126	723050	10.93	PPBV	100
91) n-PROPYLBENZENE	15.809	120	754817	11.44	PPBV	100
92) 4-ETHYLTOLUENE	15.962	105	2719805	12.20	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	16.035	105	2300675	11.13	PPBV	100
94) ALPHA-METHYLSTYRENE	16.194	118	1195904	12.09	PPBV	100
95) tert-BUTYLBENZENE	16.433	134	523380	12.22	PPBV	100
96) 1,2,4-TRIMETHYLBENZENE	16.439	105	2423323	12.17	PPBV	100
97) m-DICHLOROBENZENE	16.580	146	1782947	11.15	PPBV	100
98) BENZYL CHLORIDE	16.567	91	2316167	12.73	PPBV	100
99) p-DICHLOROBENZENE	16.647	146	1775311	10.72	PPBV	100
100) sec-BUTYLBENZENE	16.696	134	618616	11.27	PPBV	100
101) 1,2,3-TRIMETHYLBENZENE	16.849	105	2427524	11.39	PPBV	100
102) p-ISOPROPYLTOLUENE	16.855	134	746734	11.87	PPBV	100
103) o-DICHLOROBENZENE	16.977	146	1665215	10.31	PPBV	100
104) n-BUTYLBENZENE	17.259	134	703045	12.21	PPBV	100
105) HEXACHLOROETHANE	17.607	117	1210974	11.22	PPBV	100
106) HEXACHLOROBUTADIENE	18.965	225	1667734	9.84	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.886	180	1638870	14.54	PPBV	100
108) NAPHTHALENE	18.660	128	3829842	14.35	PPBV	100
110) TVHC as equiv Pentane	5.072	TIC	2959189	8.08	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

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

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

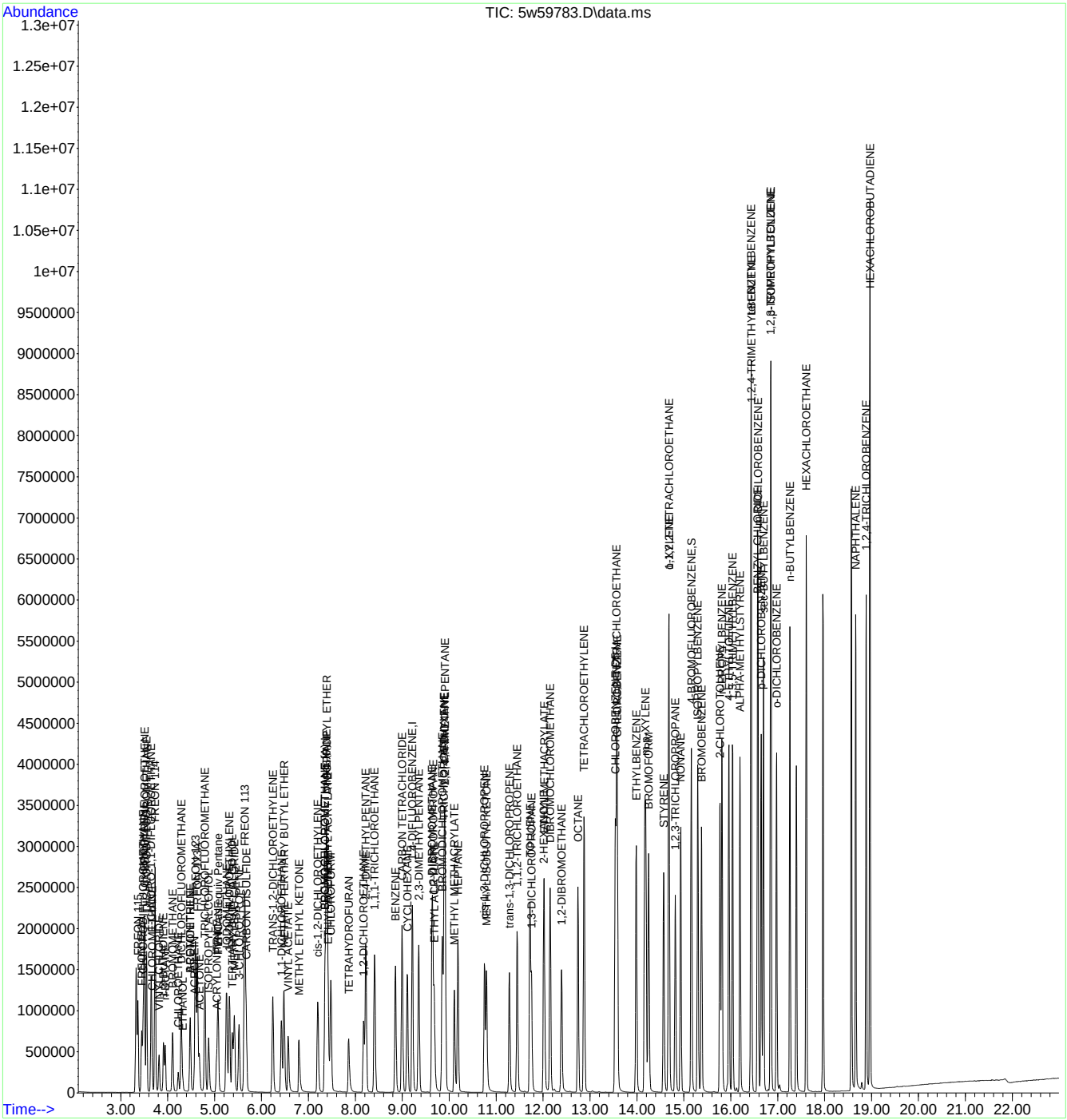
7.7.6

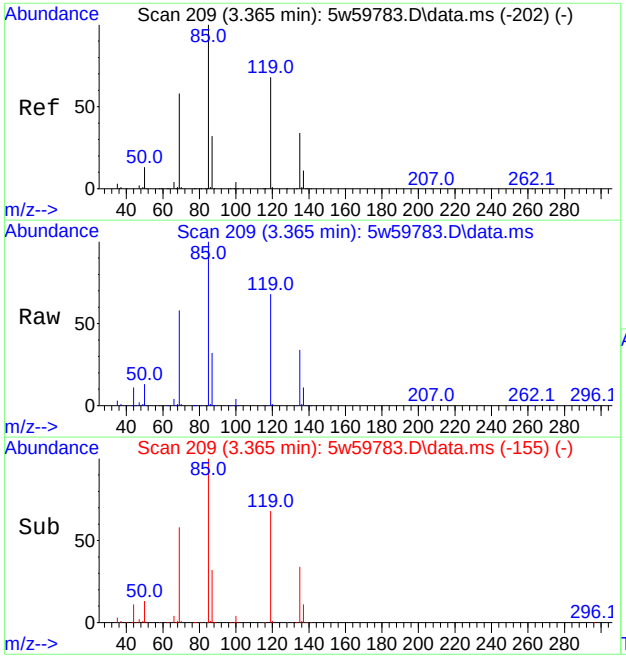
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

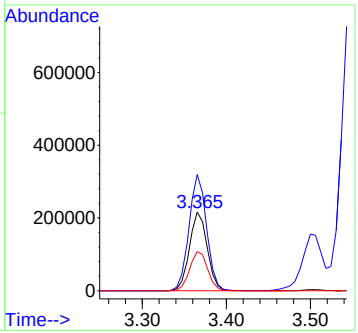


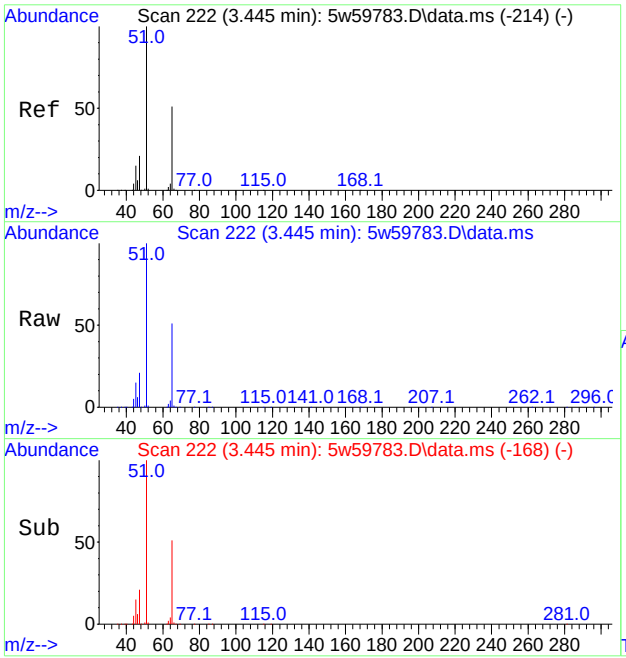


#2
FREON 115
Concen: 5.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:119 Resp: 318291

Ion	Ratio	Lower	Upper
119	100		
85	146.2	116.2	176.2
135	50.6	20.6	80.6

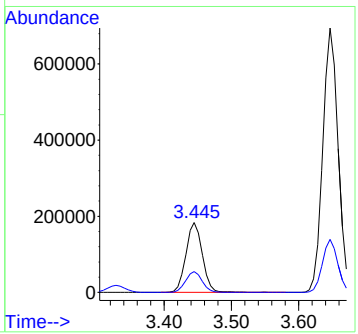


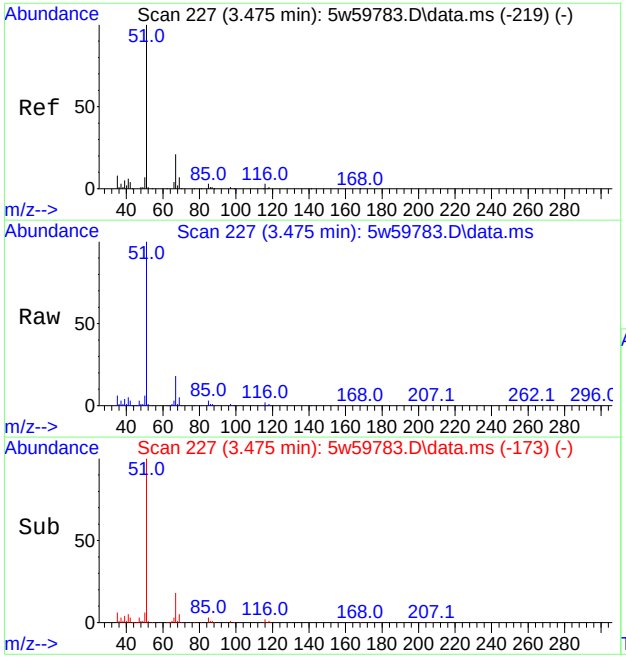


#3
FREON 152A
Concen: 8.83 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 311212

Ion	Ratio	Lower	Upper
65	100		
45	30.0	0.0	60.0

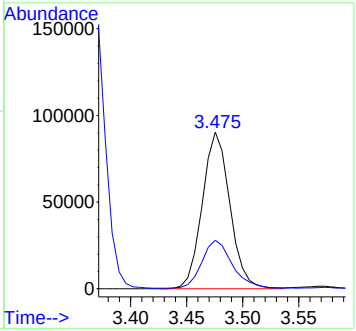


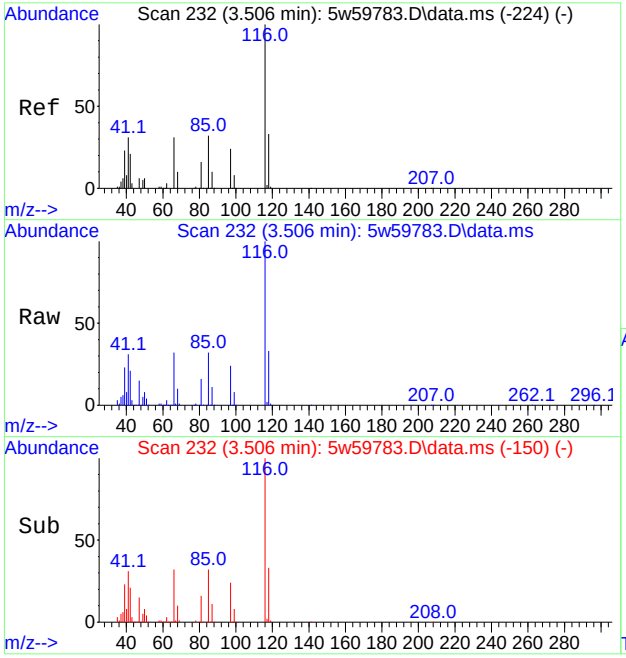


#4
CHLORODIFLUOROMETHANE
Concen: 9.59 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 154727

Ion	Ratio	Lower	Upper
67	100		
69	31.0	1.0	61.0

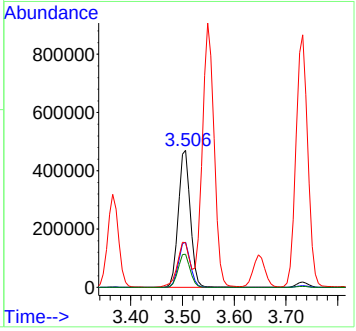


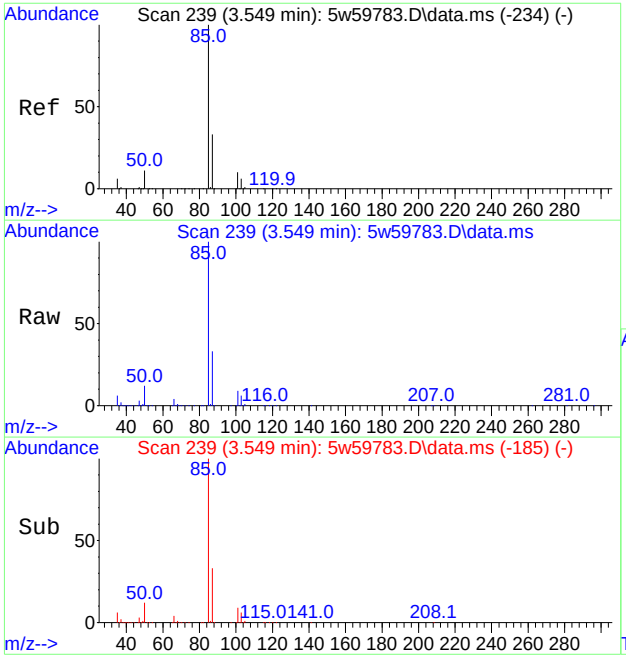


#5
CHLOROTRIFLUOROETHENE
Concen: 10.03 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:116 Resp: 762524

Ion	Ratio	Lower	Upper
116	100		
118	32.7	22.9	42.5
85	33.9	23.7	44.1
97	24.3	17.0	31.6

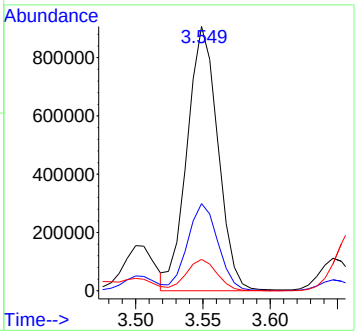


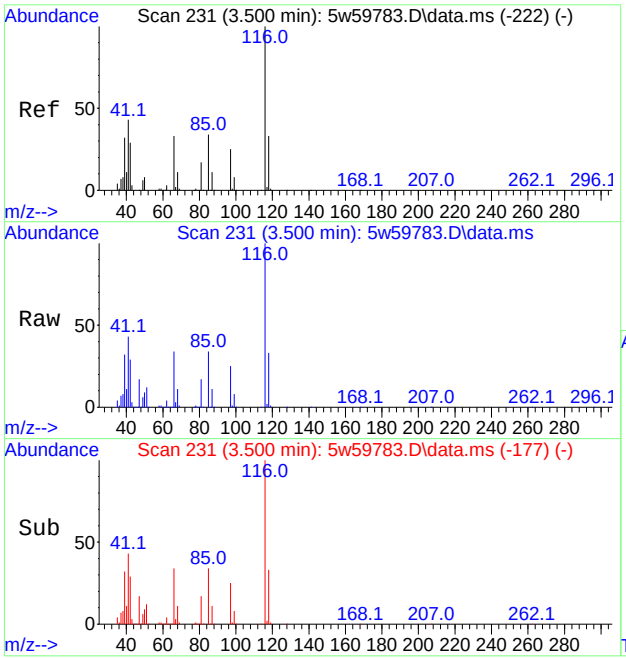


#6
DICHLORODIFLUOROMETHANE
Concen: 9.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1445515

Ion	Ratio	Lower	Upper
85	100		
87	32.5	2.5	62.5
50	11.7	0.0	41.7

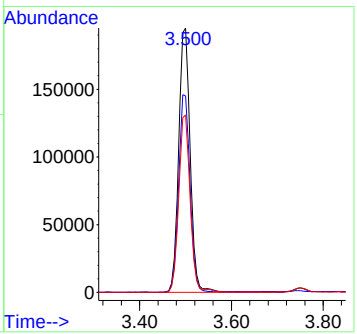


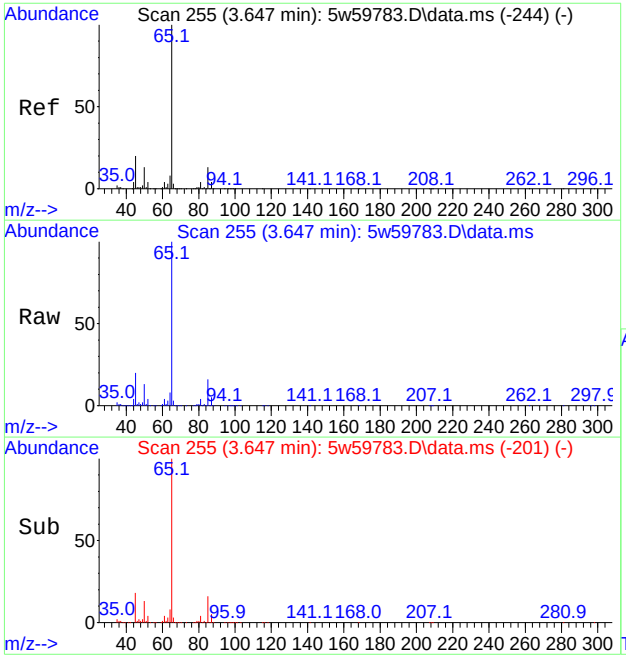


#7
PROPYLENE
Concen: 8.81 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 343468

Ion	Ratio	Lower	Upper
41	100		
39	75.1	45.1	105.1
42	66.3	36.3	96.3

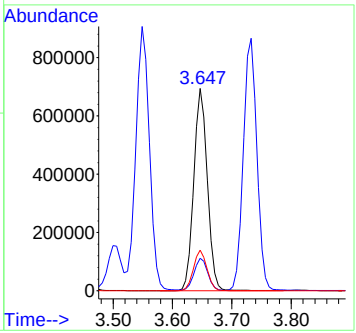


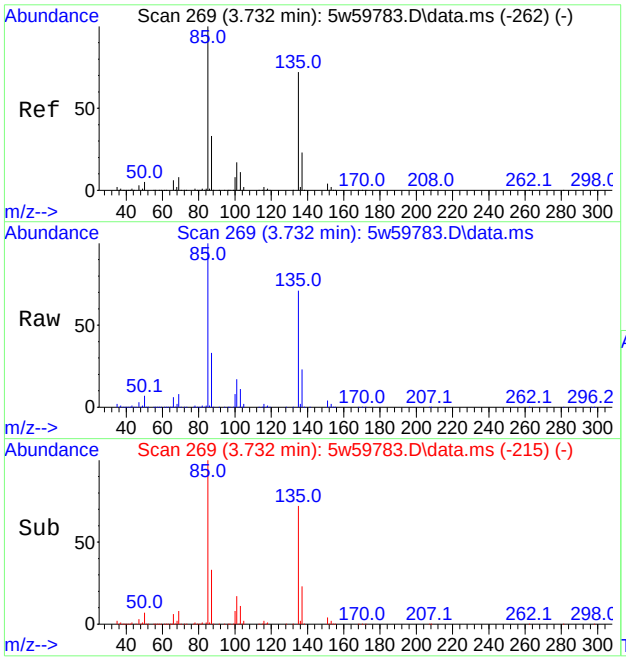


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 8.04 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 1103467

Ion	Ratio	Lower	Upper
65	100		
85	16.4	11.3	21.1
45	20.0	14.0	26.0

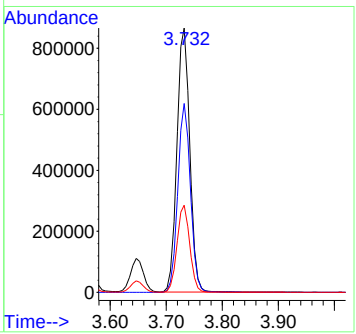


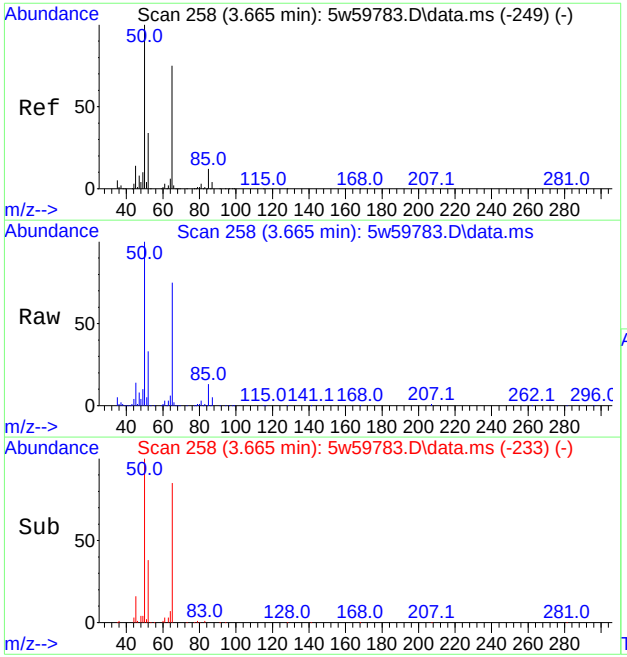


#9
FREON 114
Concen: 10.56 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1375524

Ion	Ratio	Lower	Upper
85	100		
135	70.5	40.5	100.5
87	33.0	3.0	63.0

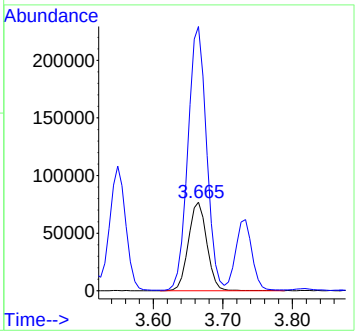


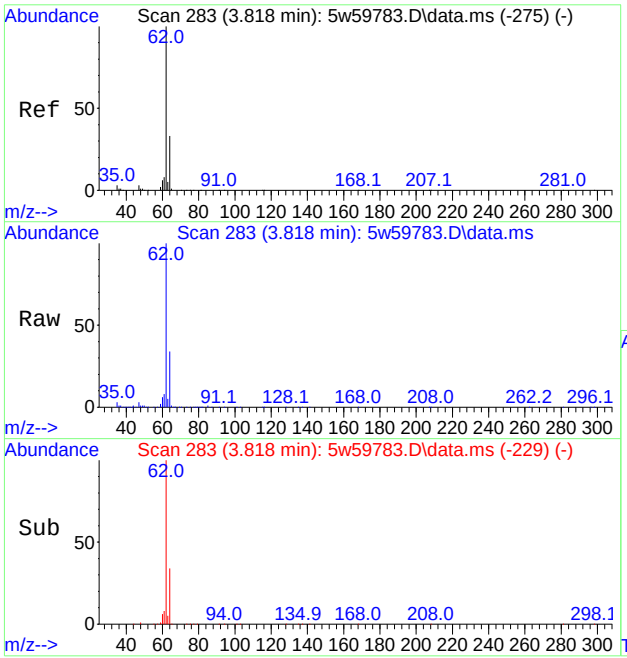


#10
CHLOROMETHANE
Concen: 8.80 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 141881

Ion	Ratio	Lower	Upper
52	100		
50	297.9	267.9	327.9

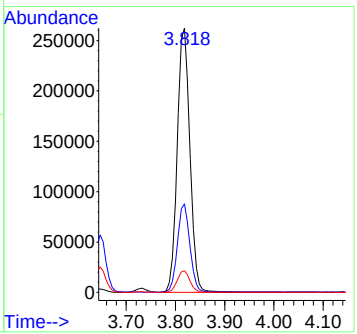


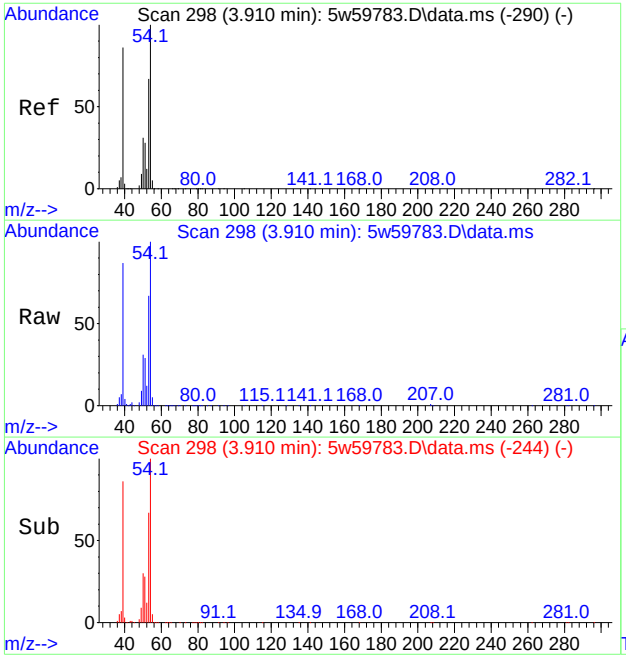


#11
VINYL CHLORIDE
Concen: 9.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 472875

Ion	Ratio	Lower	Upper
62	100		
64	33.6	3.6	63.6
61	8.2	0.0	38.2

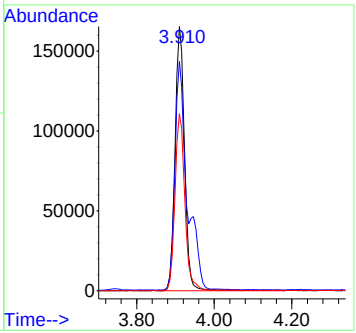


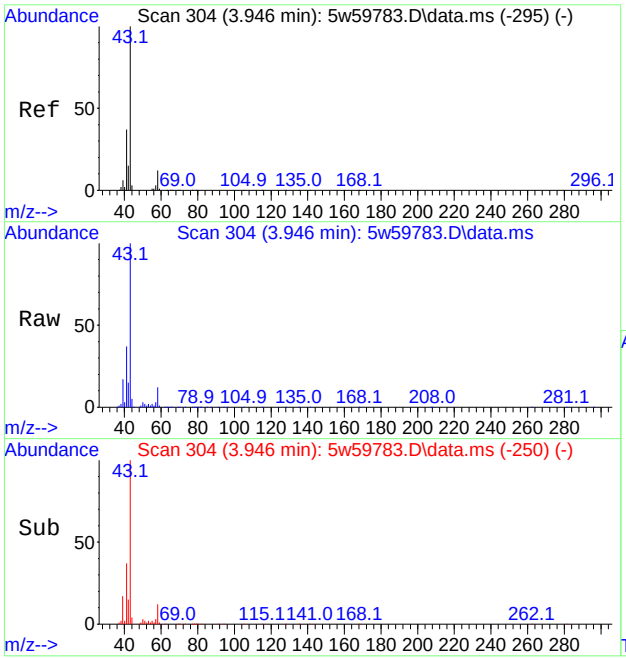


#12
1,3-BUTADIENE
Concen: 8.35 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 54 Resp: 284232

Ion	Ratio	Lower	Upper
54	100		
39	112.0	82.0	142.0
53	70.2	40.2	100.2

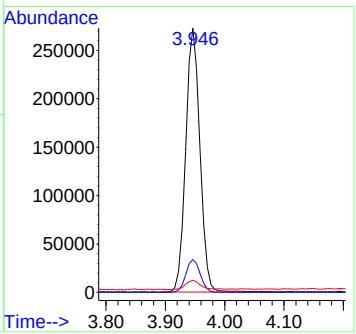


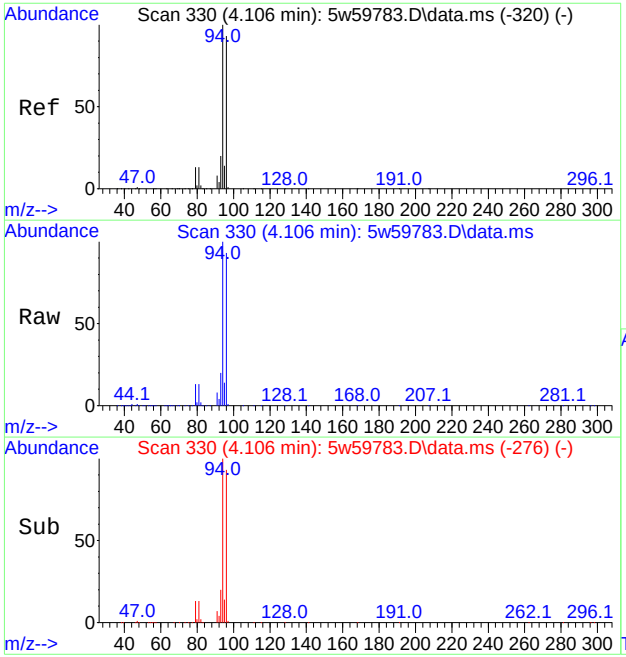


#13
n-BUTANE
Concen: 7.37 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 454503

Ion	Ratio	Lower	Upper
43	100		
58	12.6	0.0	42.6
44	4.9	0.0	34.9

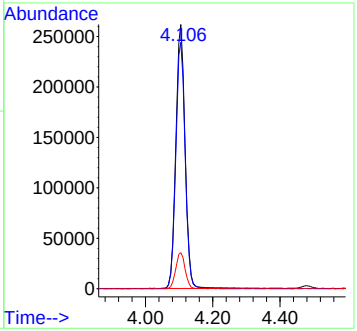


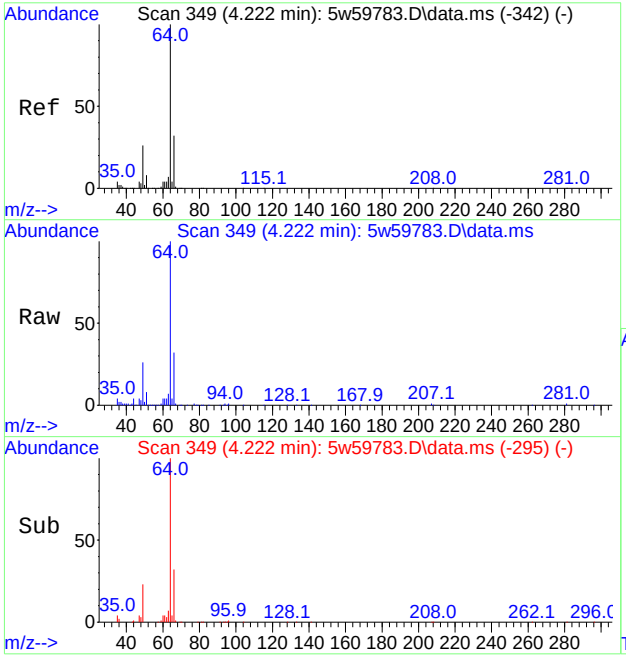


#14
BROMOMETHANE
Concen: 10.05 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 94 Resp: 500092

Ion	Ratio	Lower	Upper
94	100		
96	95.3	65.3	125.3
95	14.1	0.0	44.1

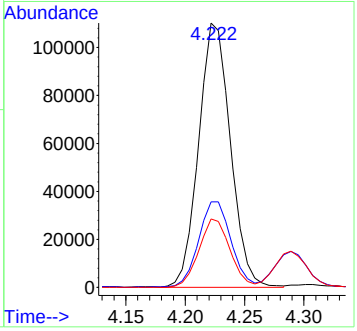


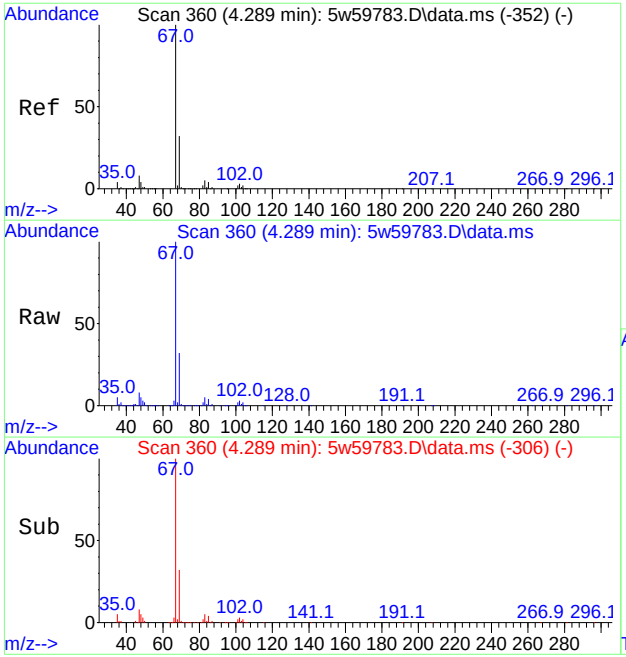


#15
CHLOROETHANE
Concen: 8.90 PPBV
RT: 4.222 min Scan# 349
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 64 Resp: 205309

Ion	Ratio	Lower	Upper
64	100		
66	33.1	3.1	63.1
49	25.3	0.0	55.3

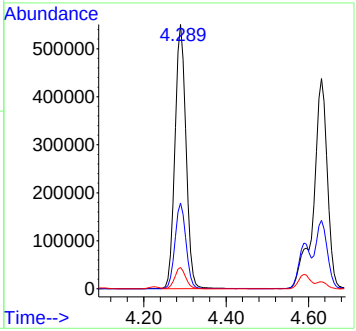


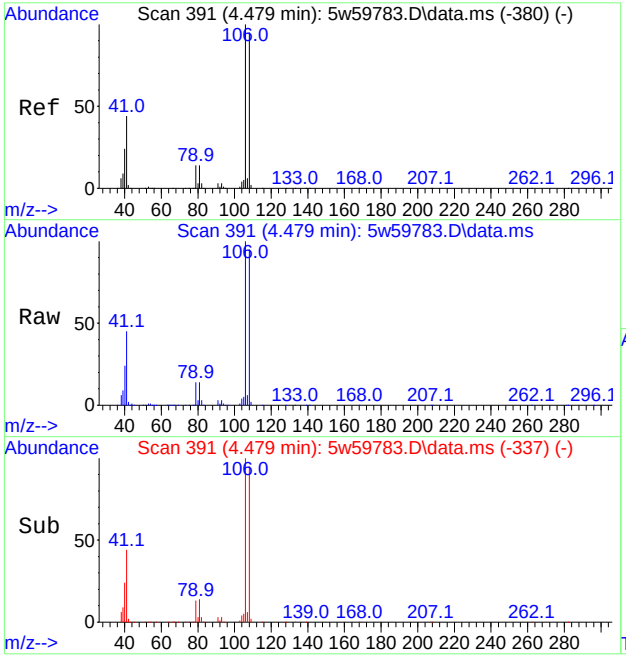


#16
DICHLOROFLUOROMETHANE
Concen: 8.67 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 1019855

Ion	Ratio	Lower	Upper
67	100		
69	32.5	22.7	42.3
47	8.0	5.6	10.4

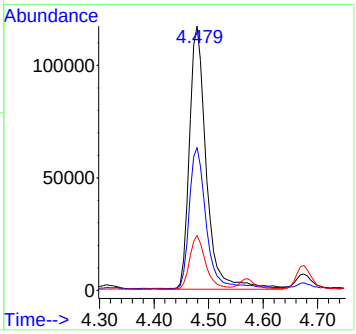


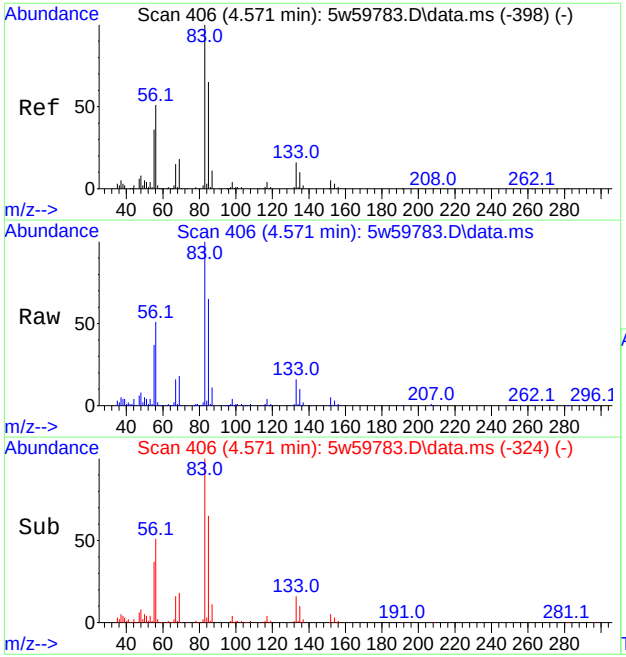


#17
ACETONITRILE
Concen: 7.21 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 252958

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.1	13.4	24.8

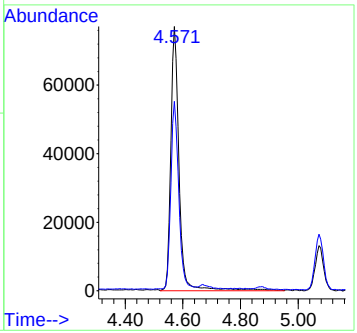


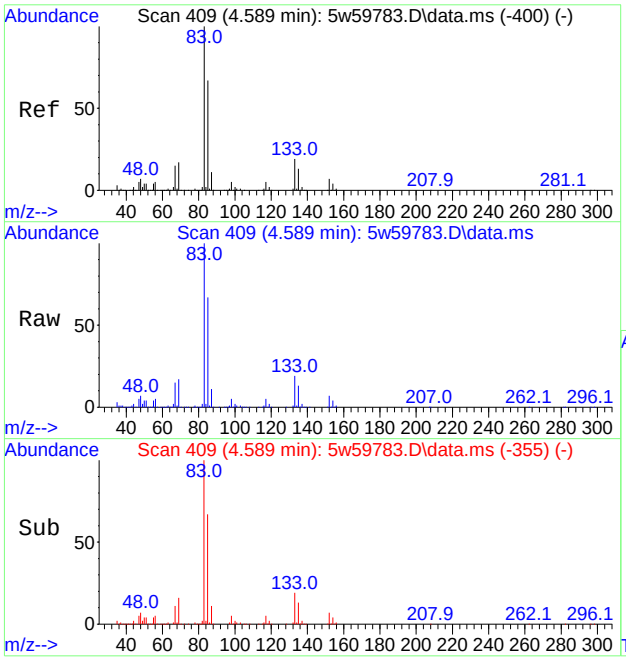


#18
ACROLEIN
Concen: 8.51 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 56 Resp: 155868

Ion	Ratio	Lower	Upper
56	100		
55	66.6	46.6	86.6

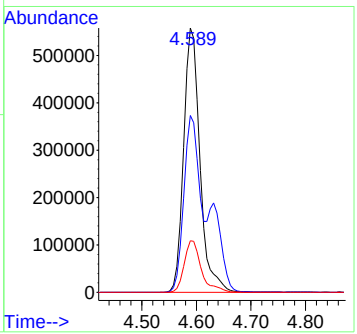


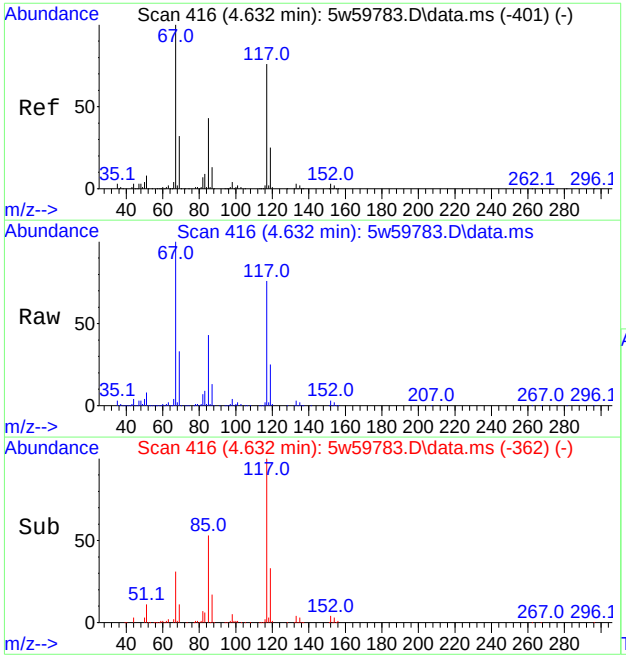


#19
FREON 123
Concen: 9.93 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1157483

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.0	94.0
133	20.7	0.0	50.7

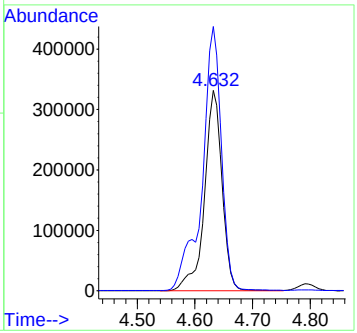


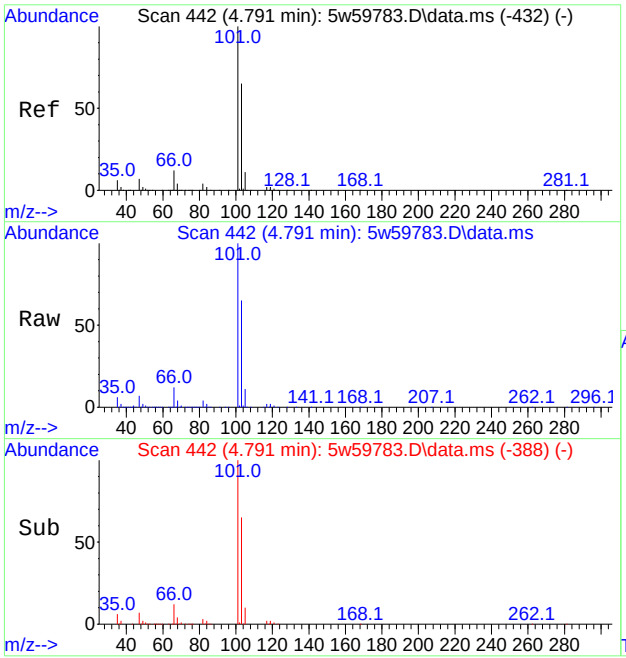


#20
FREON 123A
Concen: 9.69 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 701588

Ion	Ratio	Lower	Upper
117	100		
67	144.6	114.6	174.6

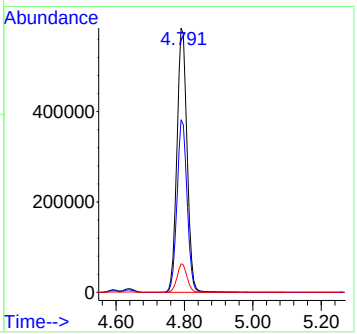


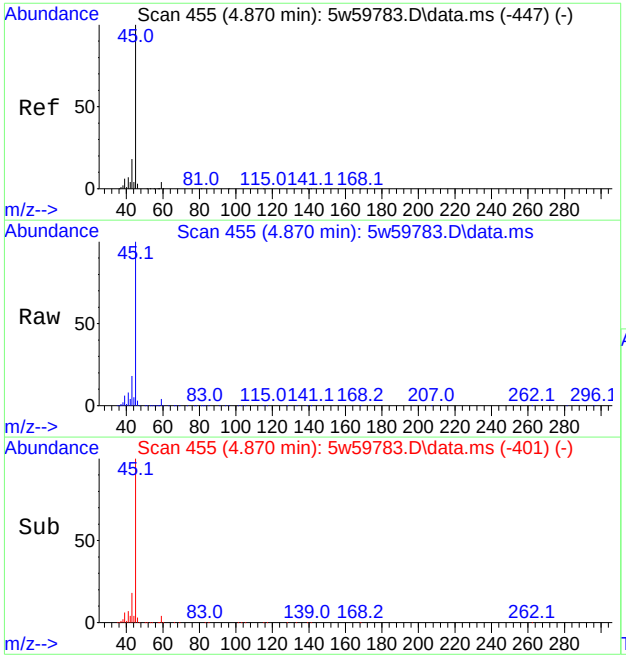


#21
TRICHLOROFLUOROMETHANE
Concen: 7.29 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:101 Resp: 1209415

Ion	Ratio	Lower	Upper
101	100		
103	65.0	35.0	95.0
105	10.7	0.0	40.7

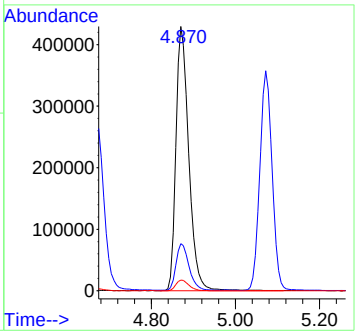


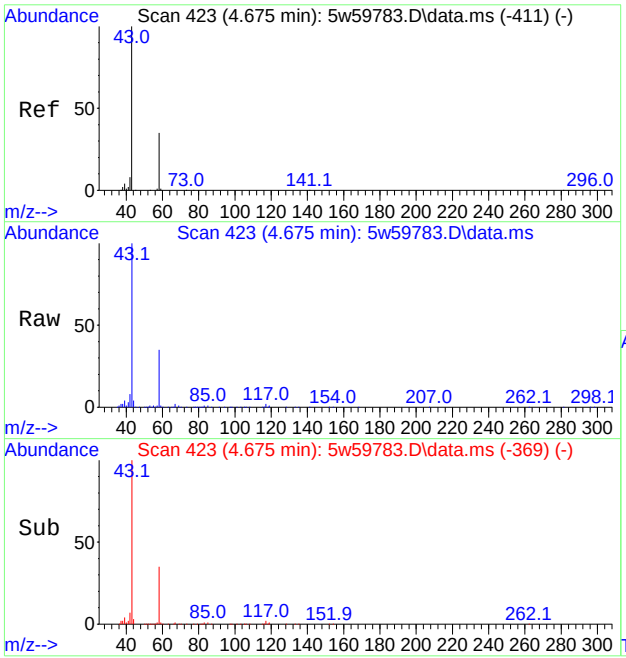


#22
ISOPROPYL ALCOHOL
Concen: 7.67 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 906732

Ion	Ratio	Lower	Upper
45	100		
43	17.8	0.0	47.8
59	4.1	0.0	34.1

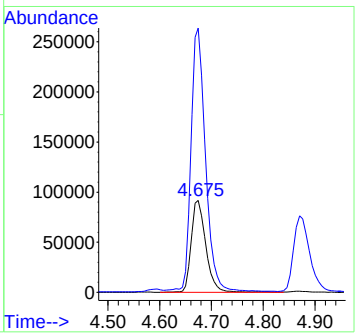


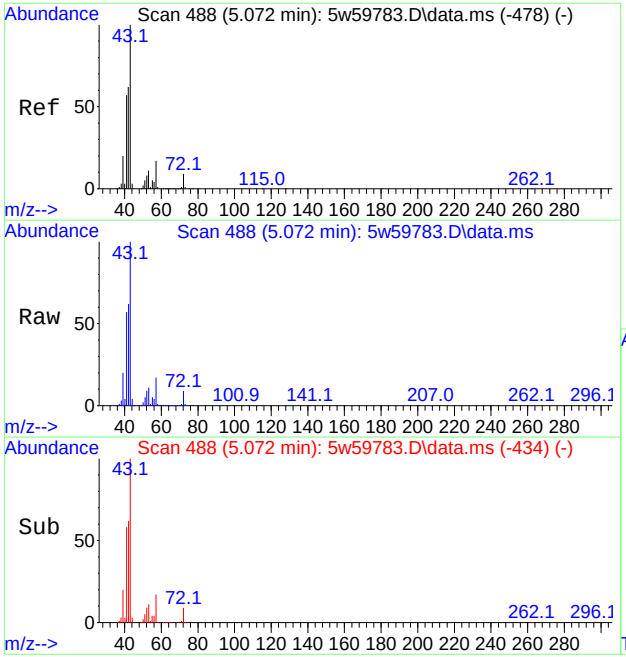


#23
ACETONE
Concen: 8.59 PPBV
RT: 4.675 min Scan# 423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 180987

Ion	Ratio	Lower	Upper
58	100		
43	282.3	252.1	312.1

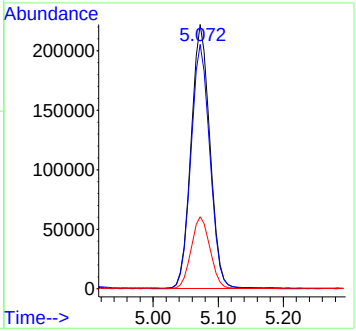


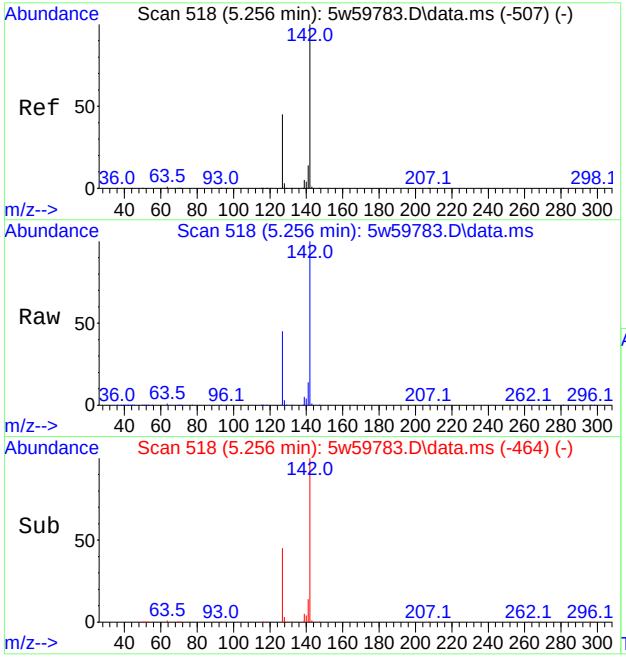


#24
PENTANE
Concen: 7.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 42 Resp: 444915

Ion	Ratio	Lower	Upper
42	100		
41	92.3	62.3	122.3
57	27.7	0.0	57.7

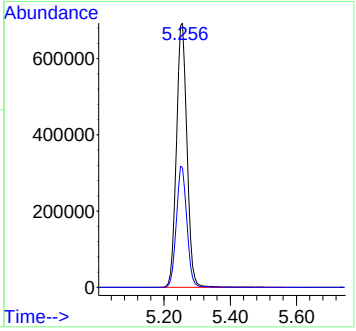


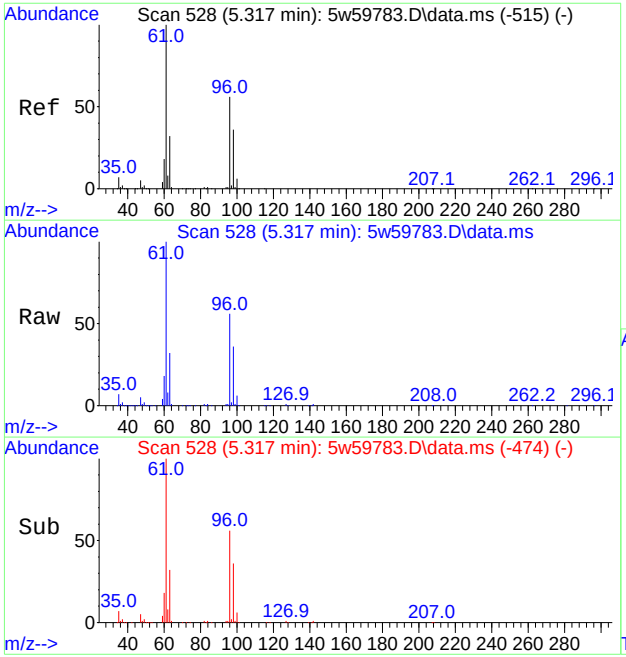


#25
IODOMETHANE
Concen: 10.06 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:142 Resp: 1538968

Ion	Ratio	Lower	Upper
142	100		
127	46.0	16.0	76.0

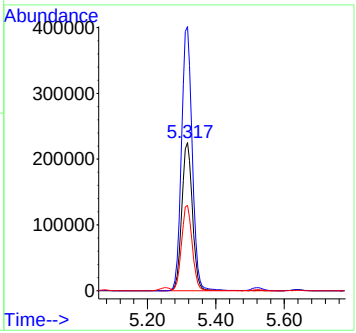


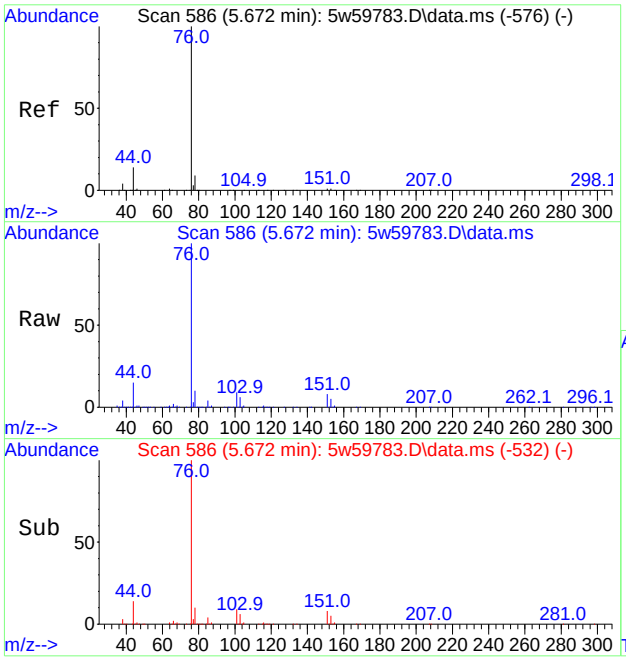


#26
1,1-DICHLOROETHYLENE
Concen: 8.97 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 488317

Ion	Ratio	Lower	Upper
96	100		
61	178.5	148.5	208.5
63	57.4	27.4	87.4

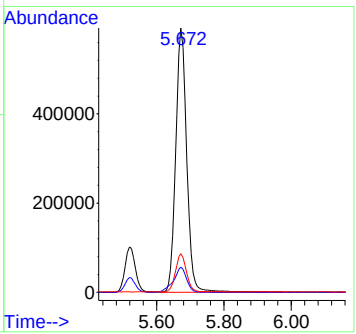


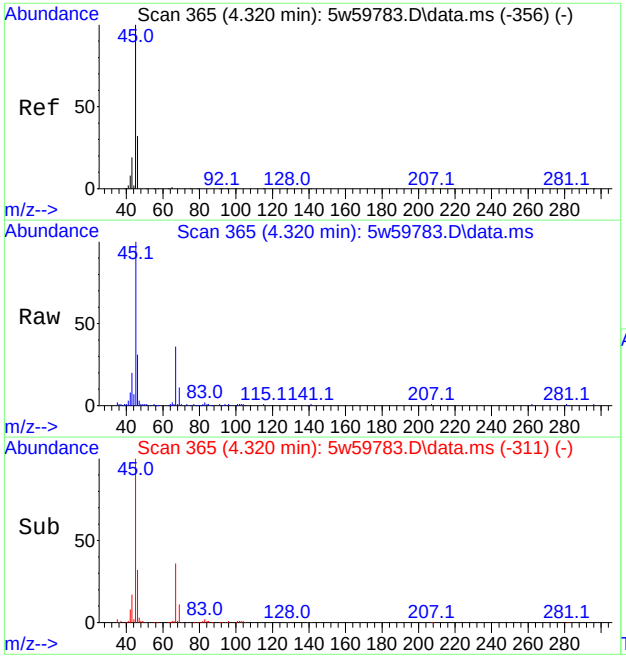


#27
CARBON DISULFIDE
Concen: 9.35 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 1343447

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

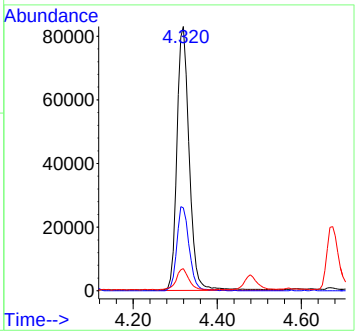


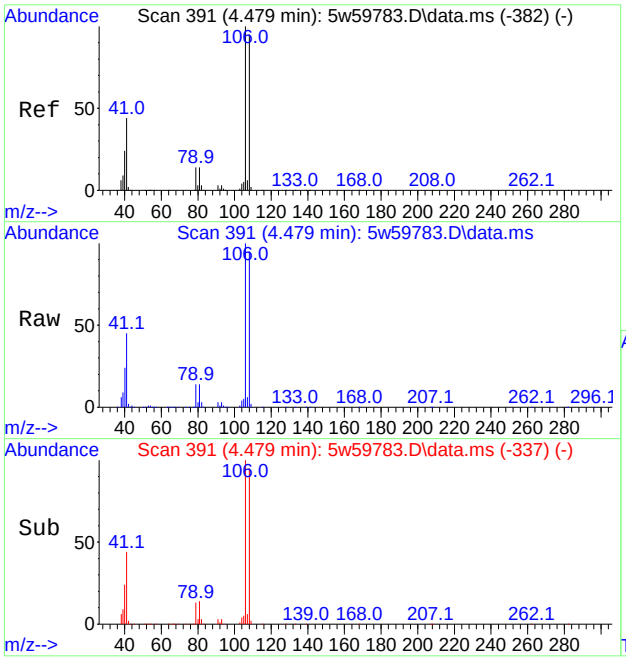


#28
ETHANOL
Concen: 7.22 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 168471

Ion	Ratio	Lower	Upper
45	100		
46	32.0	2.0	62.0
42	8.5	0.0	38.5

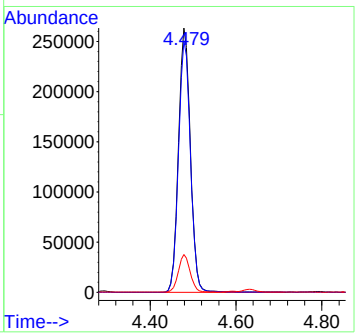


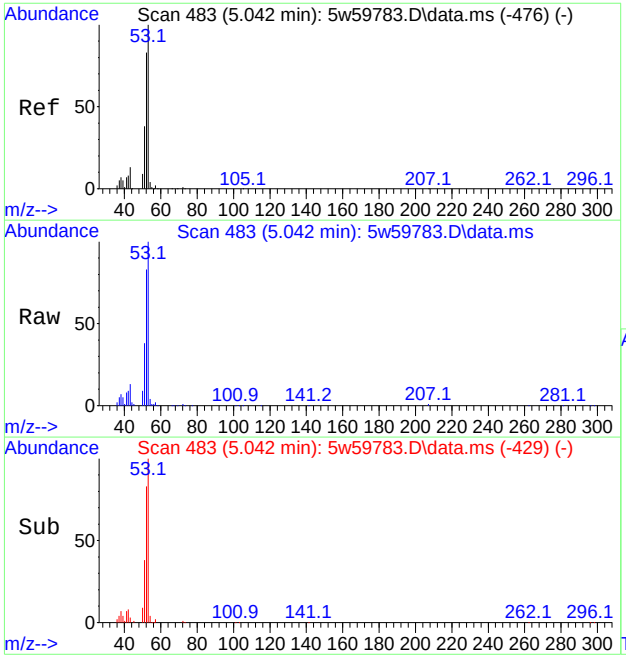


#29
BROMOETHENE
Concen: 10.65 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 508476

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	13.9	0.0	44.0

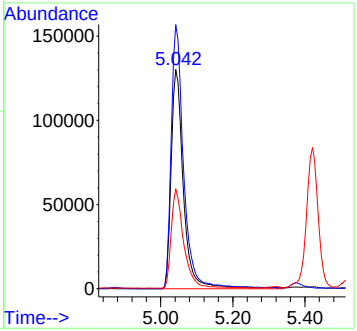


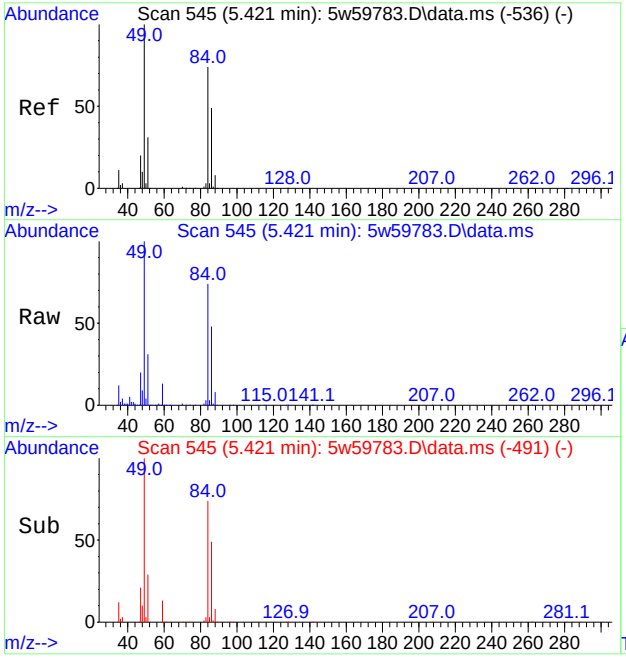


#30
ACRYLONITRILE
Concen: 8.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 310247

Ion	Ratio	Lower	Upper
52	100		
53	122.6	85.8	159.4
51	46.2	32.3	59.9

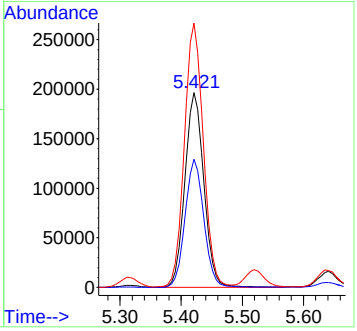


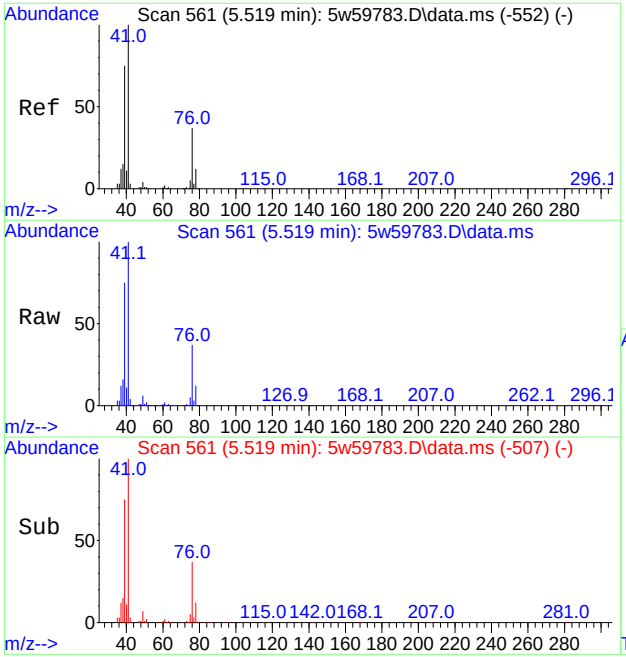


#31
METHYLENE CHLORIDE
Concen: 8.70 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 424759

Ion	Ratio	Lower	Upper
84	100		
86	65.2	35.2	95.2
49	135.3	105.3	165.3

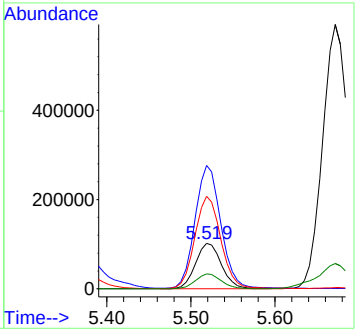


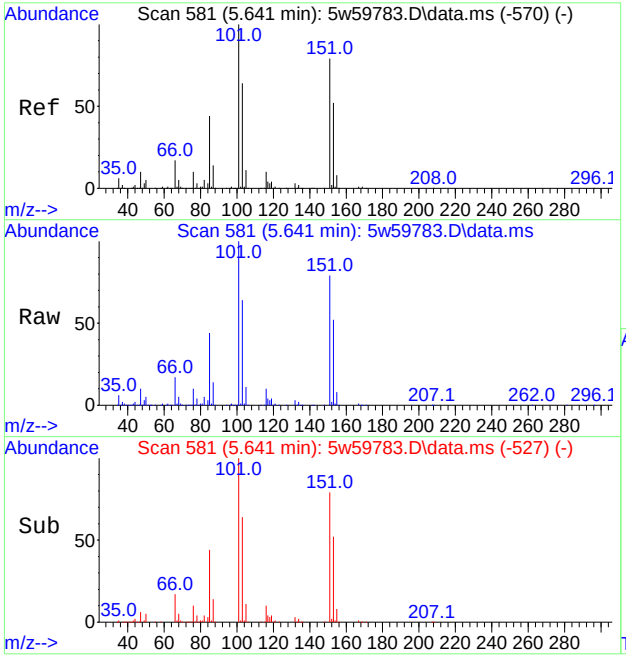


#32
3-CHLOROPROPENE
Concen: 9.74 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 218615

Ion	Ratio	Lower	Upper
76	100		
41	270.8	240.9	300.9
39	203.6	173.3	233.3
78	32.8	2.8	62.8

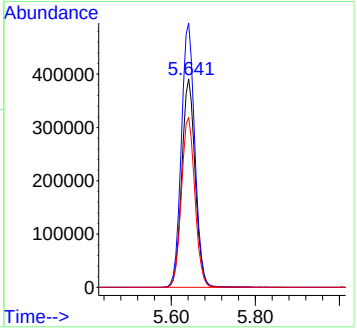


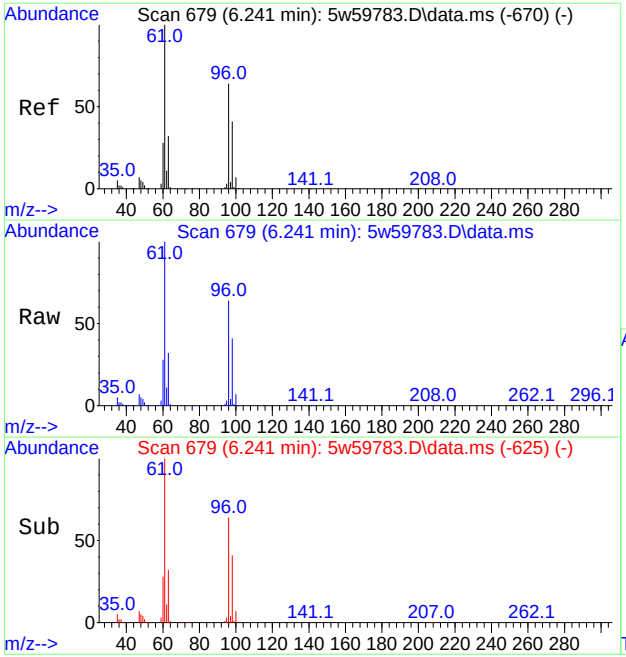


#33
FREON 113
Concen: 9.06 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:151 Resp: 865046

Ion	Ratio	Lower	Upper
151	100		
101	127.5	97.5	157.5
103	82.5	52.5	112.5

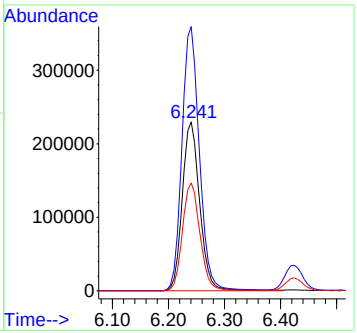


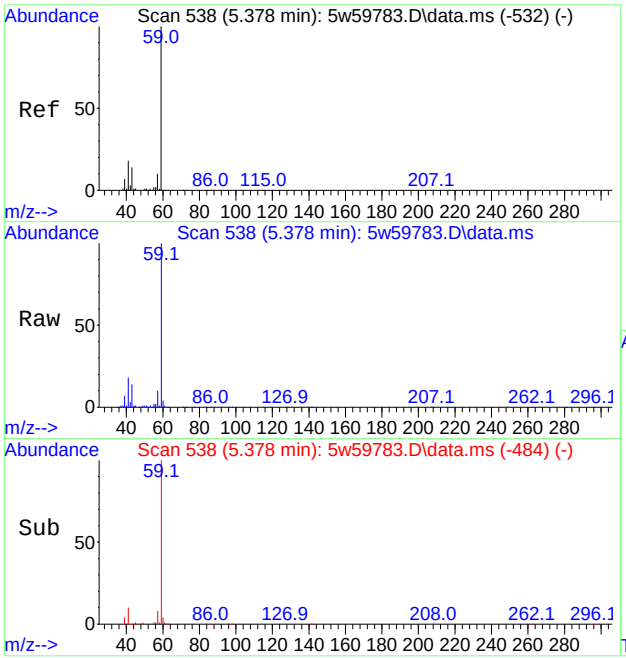


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 8.93 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 496473

Ion	Ratio	Lower	Upper
96	100		
61	156.4	126.4	186.4
98	64.1	34.1	94.1

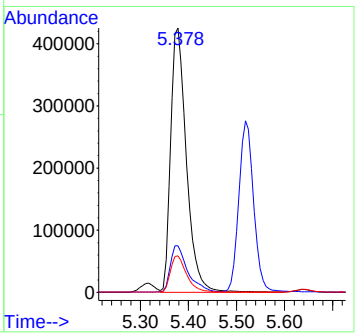


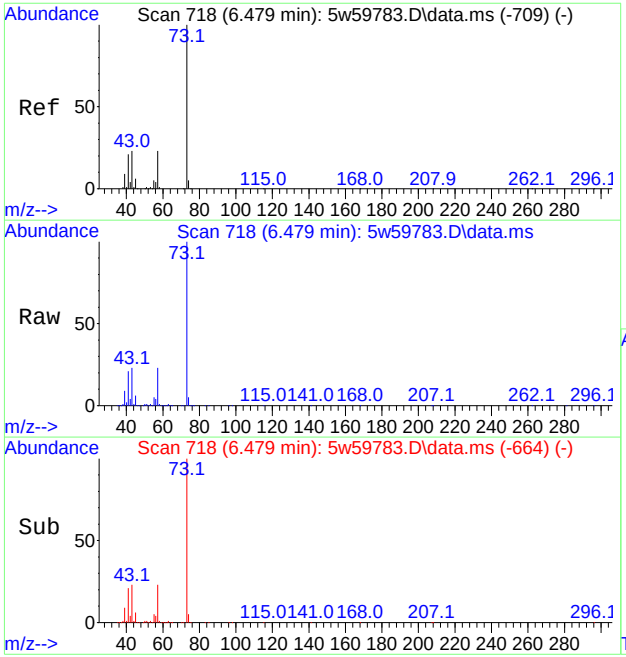


#35
TERTIARY BUTYL ALCOHOL
Concen: 8.31 PPBV
RT: 5.378 min Scan# 538
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 968852

Ion	Ratio	Lower	Upper
59	100		
41	19.3	0.0	49.3
43	14.1	0.0	44.1

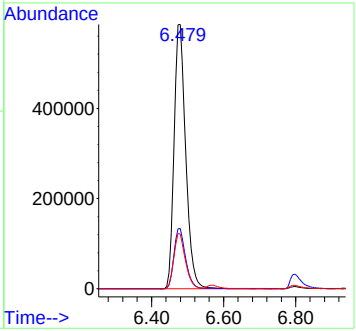


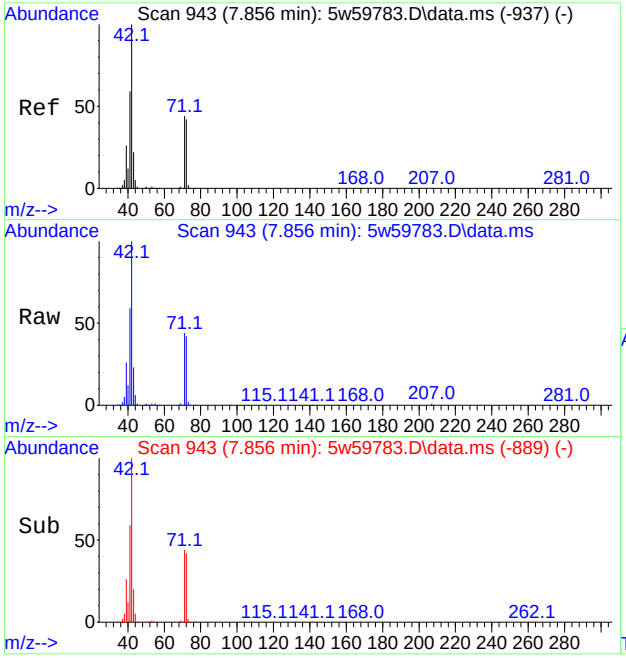


#36
METHYL TERTIARY BUTYL ETHER
Concen: 9.62 PPBV
RT: 6.479 min Scan# 718
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 73 Resp: 1323434

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.6	0.0	50.6

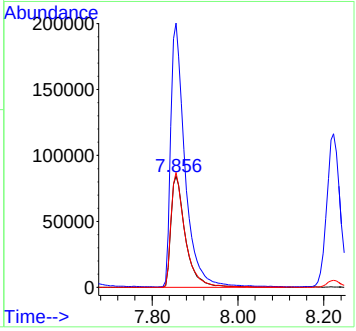


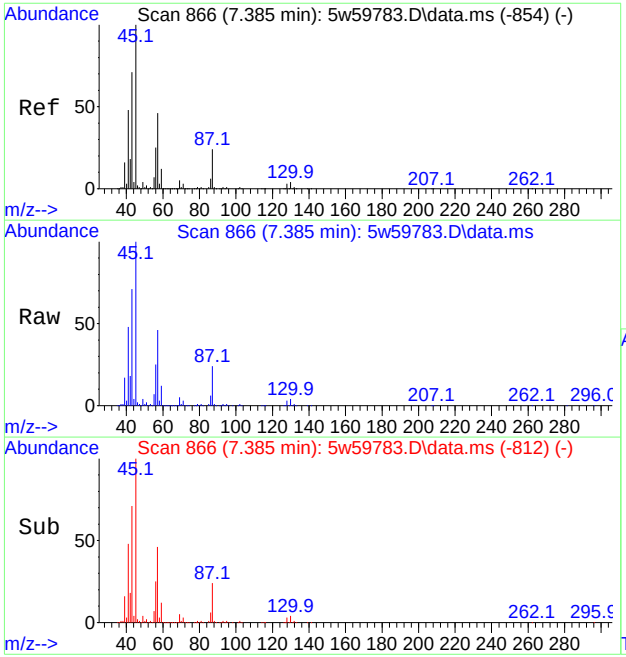


#37
TETRAHYDROFURAN
Concen: 10.87 PPBV
RT: 7.856 min Scan# 943
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 199227

Ion	Ratio	Lower	Upper
72	100		
42	232.4	202.4	262.4
71	101.1	71.1	131.1

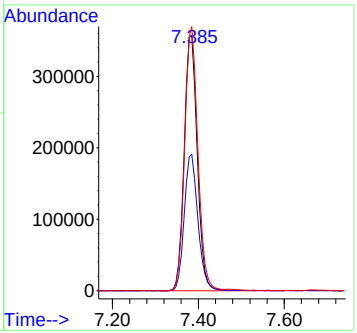


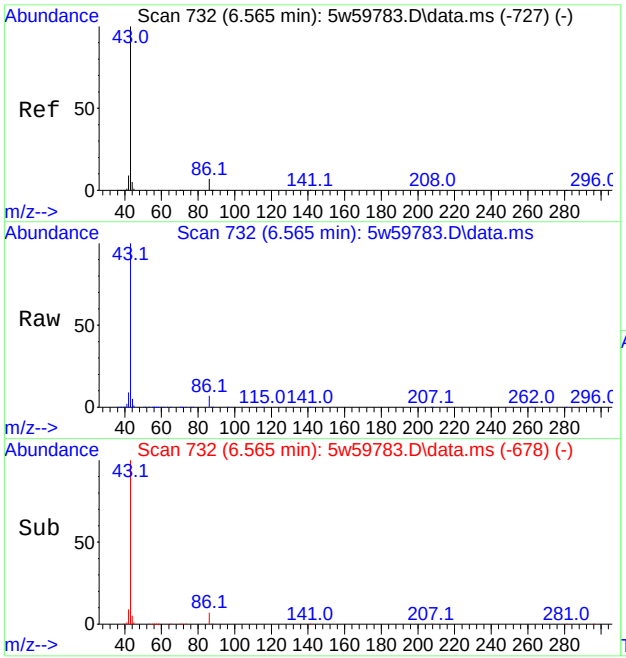


#38
HEXANE
Concen: 9.88 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 758015

Ion	Ratio	Lower	Upper
57	100		
56	55.9	25.9	85.9
41	104.7	74.7	134.7

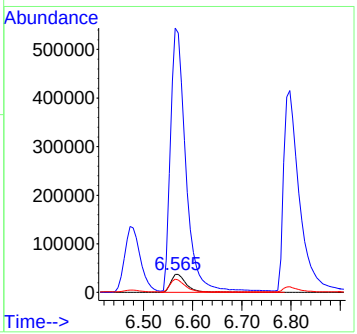


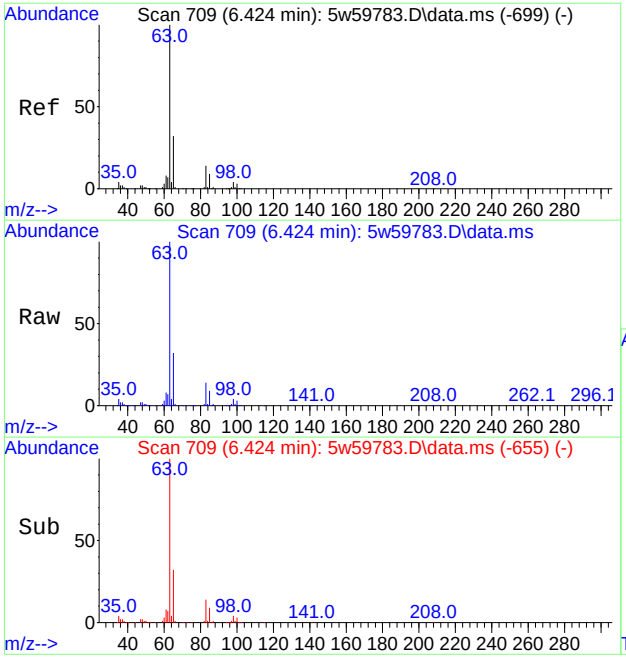


#39
VINYL ACETATE
Concen: 9.01 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 86 Resp: 82624

Ion	Ratio	Lower	Upper
86	100		
43	1409.7	1379.7	1439.7
44	66.9	36.9	96.9

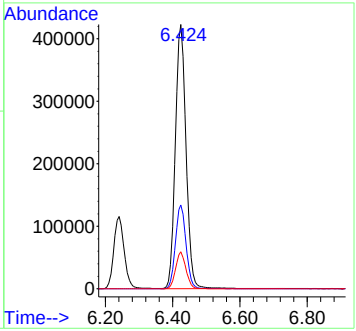


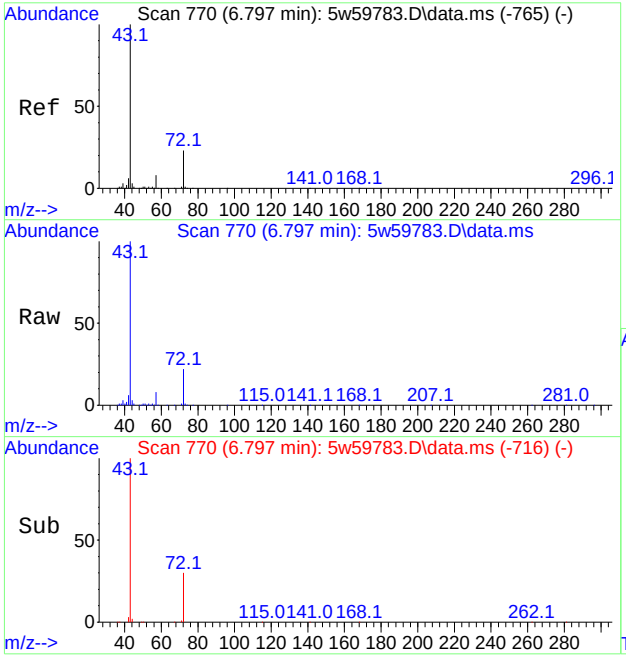


#40
1,1-DICHLOROETHANE
Concen: 9.18 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 931030

Ion	Ratio	Lower	Upper
63	100		
65	31.7	1.7	61.7
83	13.5	0.0	43.5

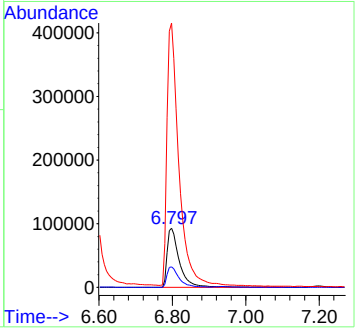


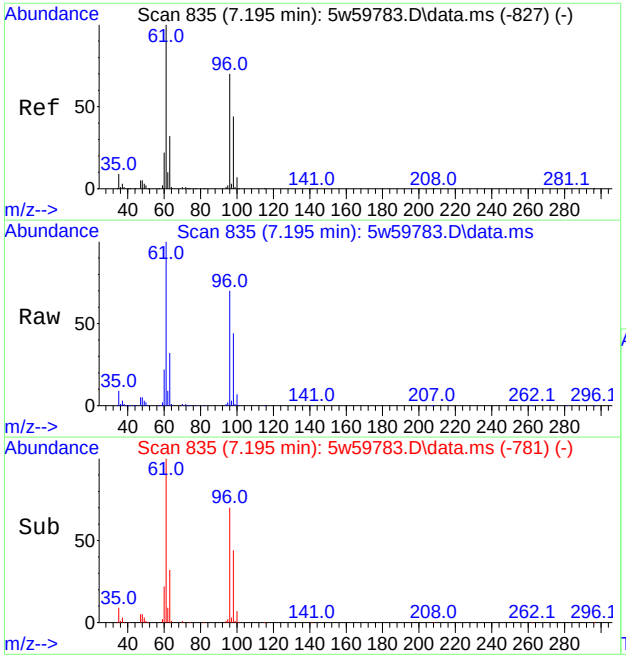


#41
METHYL ETHYL KETONE
Concen: 11.31 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 216147

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	445.9	415.9	475.9

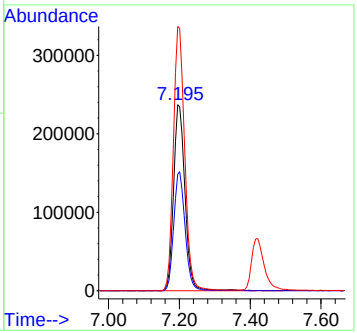


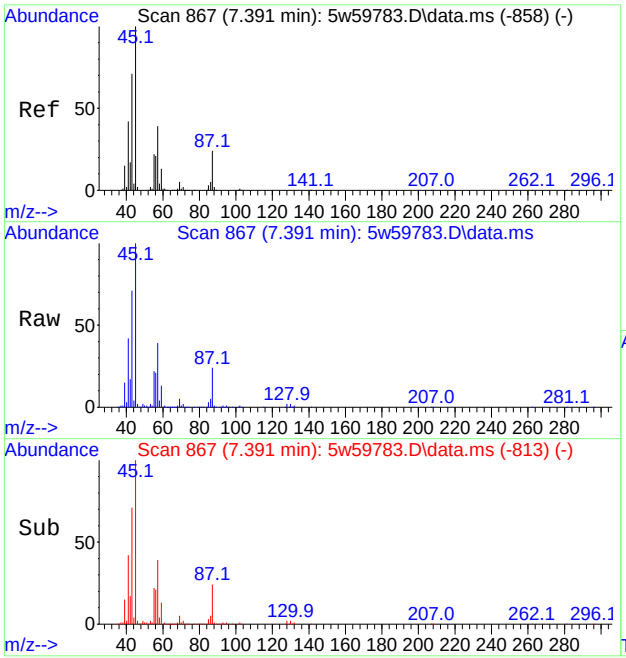


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.24 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 529578

Ion	Ratio	Lower	Upper
96	100		
98	64.0	34.0	94.0
61	141.5	111.5	171.5

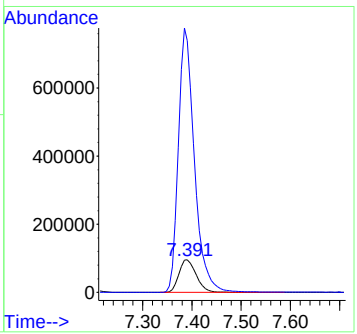


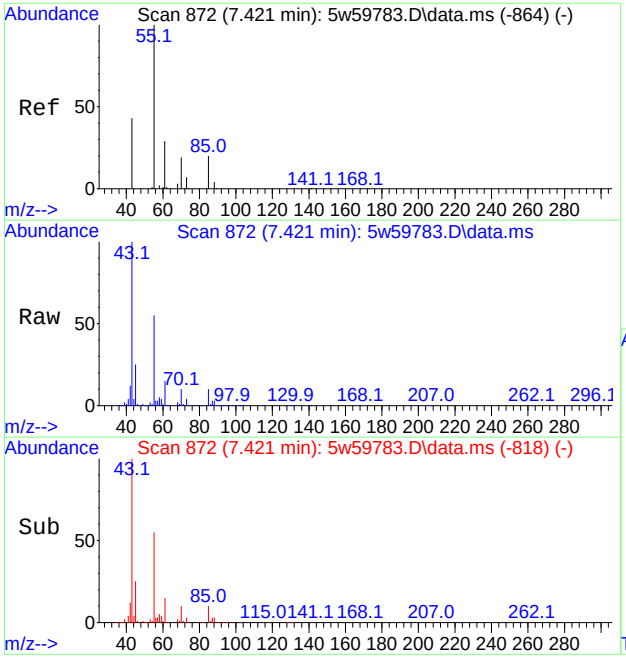


#43
DIISOPROPYL ETHER
Concen: 11.29 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 234936

Ion	Ratio	Lower	Upper
59	100		
45	750.9	720.9	780.9

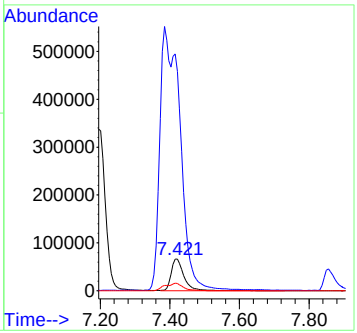


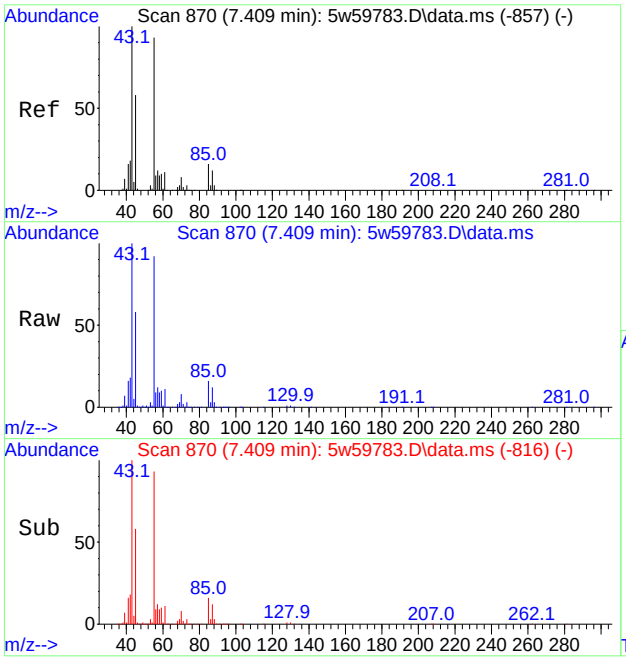


#44
ETHYL ACETATE
Concen: 10.80 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 61 Resp: 169787

Ion	Ratio	Lower	Upper
61	100		
43	590.5	581.3	641.3
88	34.5	4.5	64.5

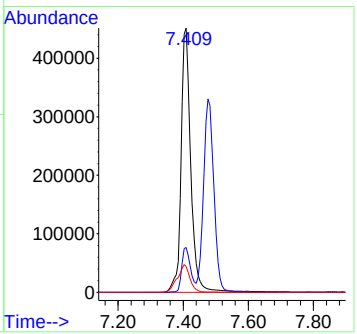


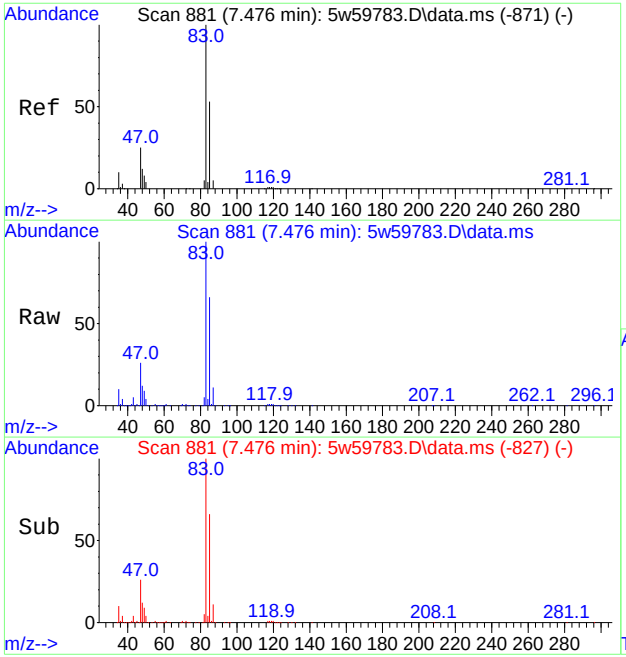


#45
METHYL ACRYLATE
Concen: 10.40 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 948651

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.5	9.4	17.6

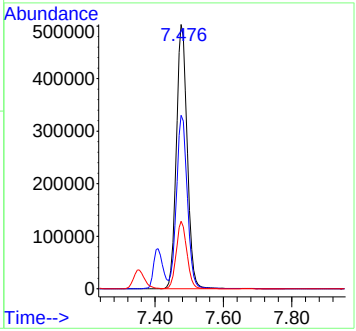


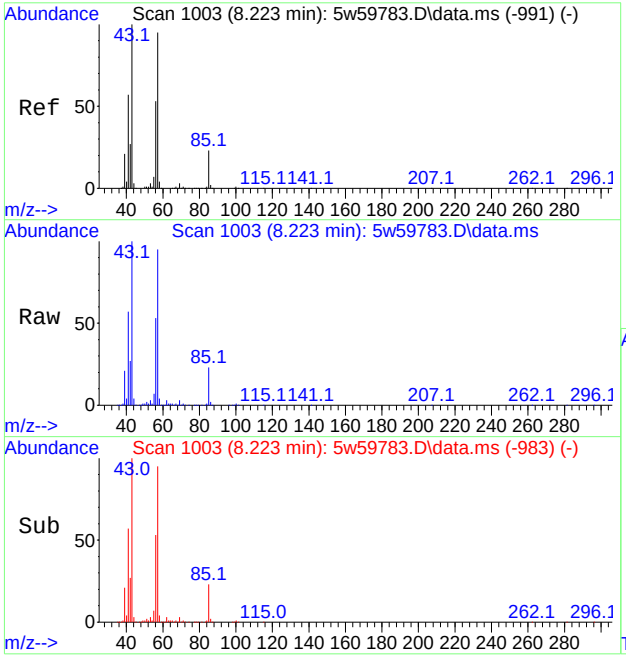


#46
CHLOROFORM
Concen: 9.51 PPBV
RT: 7.476 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1113306

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.5	95.5
47	25.2	0.0	55.2

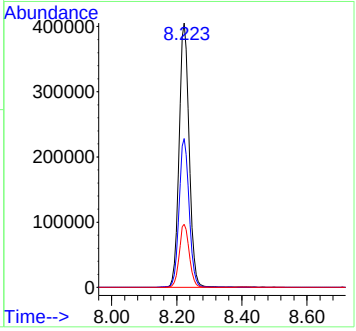


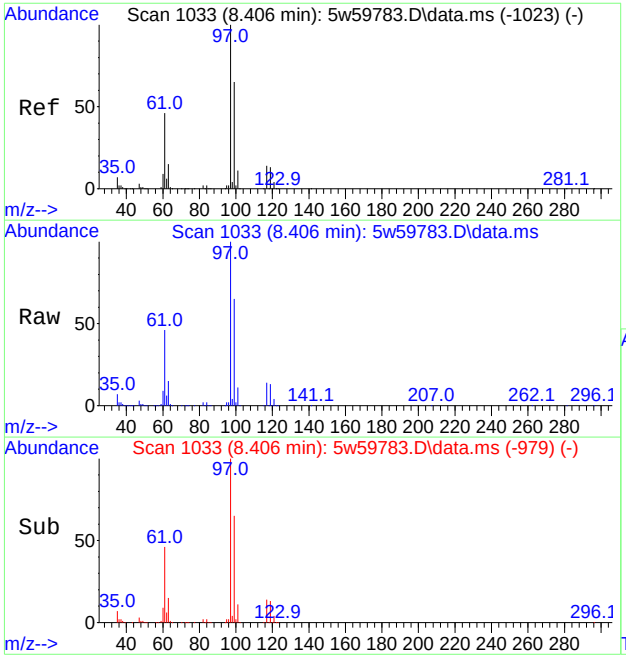


#47
2,4-DIMETHYLPENTANE
Concen: 9.73 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 877406

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.8	0.0	53.8

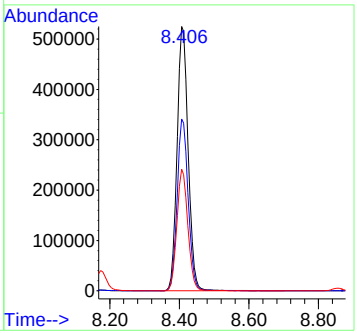


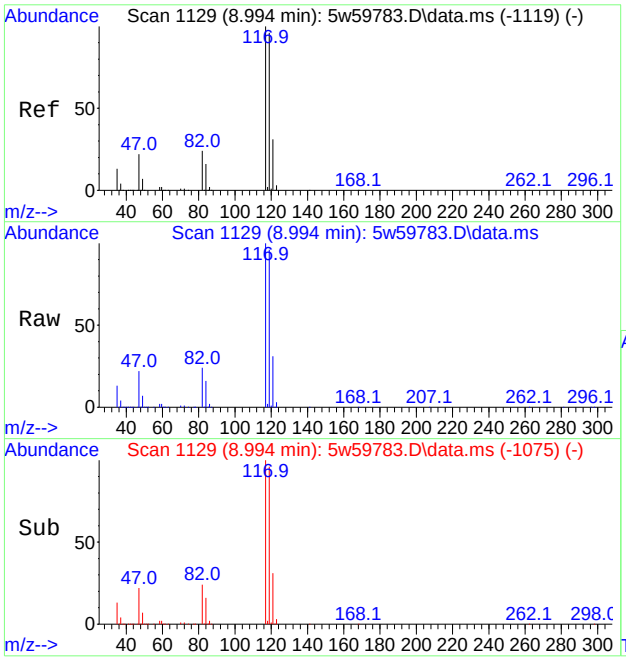


#48
1,1,1-TRICHLOROETHANE
Concen: 9.11 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 97 Resp: 1165134

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.8	94.8
61	45.8	15.8	75.8

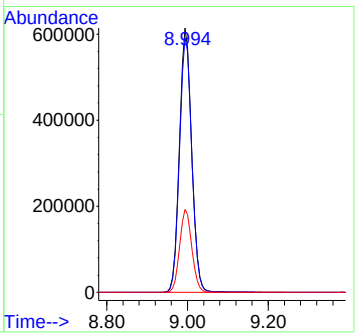


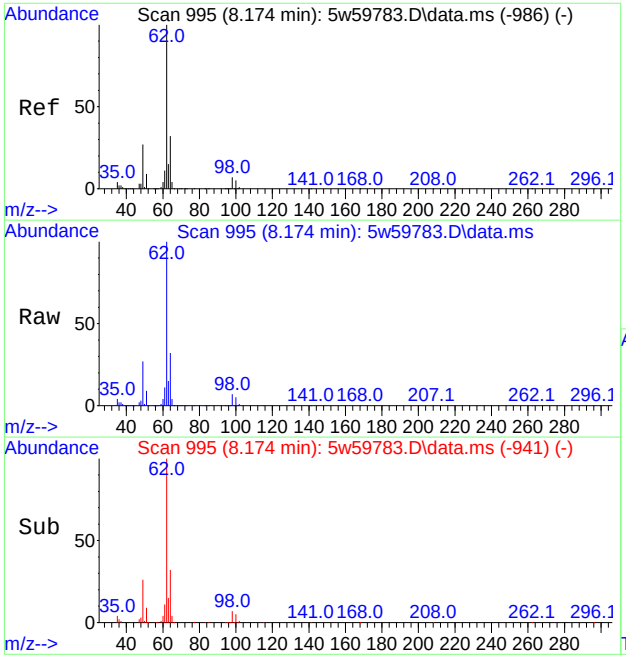


#49
CARBON TETRACHLORIDE
Concen: 9.17 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1296040

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.3	1.3	61.3

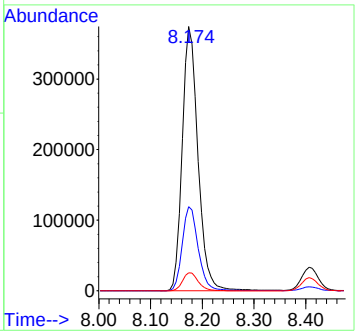


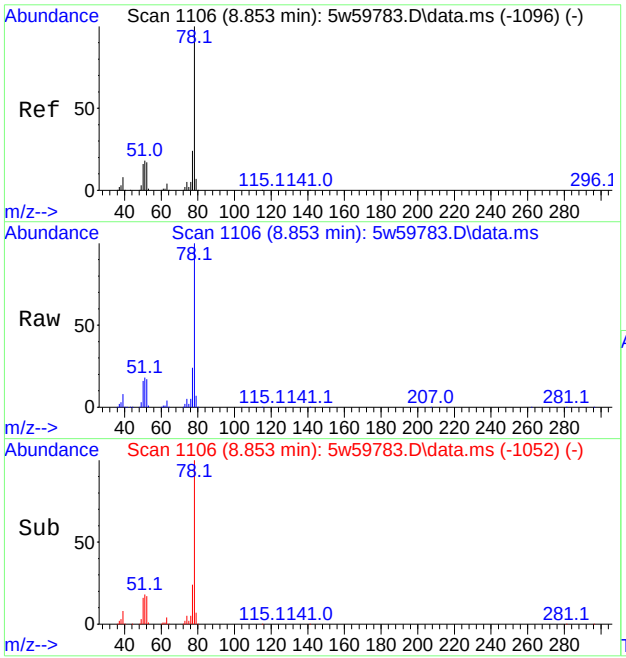


#50
1,2-DICHLOROETHANE
Concen: 9.55 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 793795

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.9	0.0	36.9

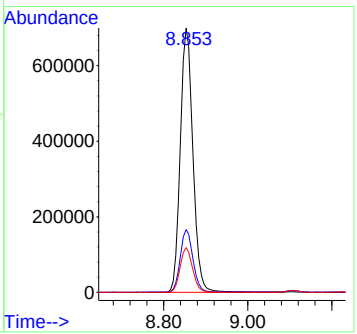


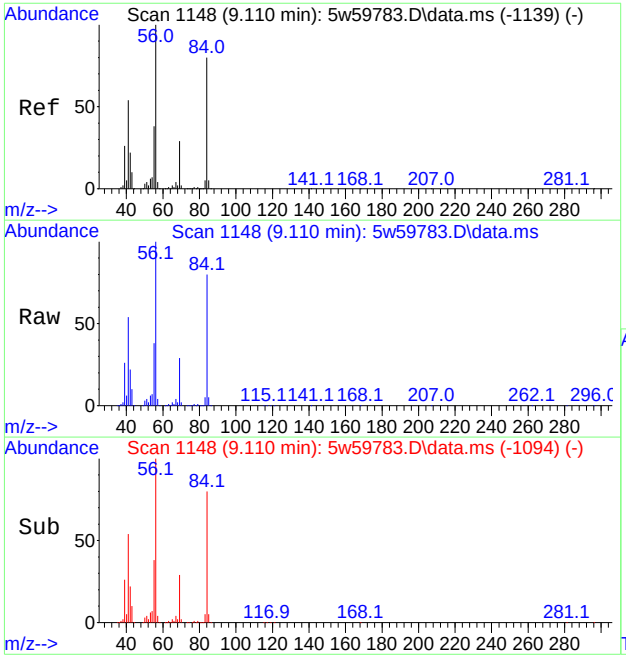


#52
BENZENE
Concen: 10.93 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 78 Resp: 1461752

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.8
52	16.9	0.0	46.9

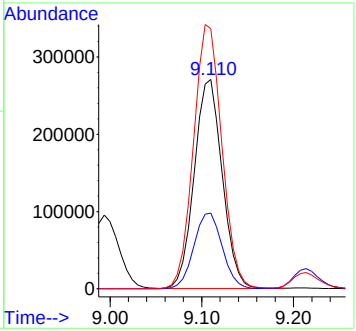


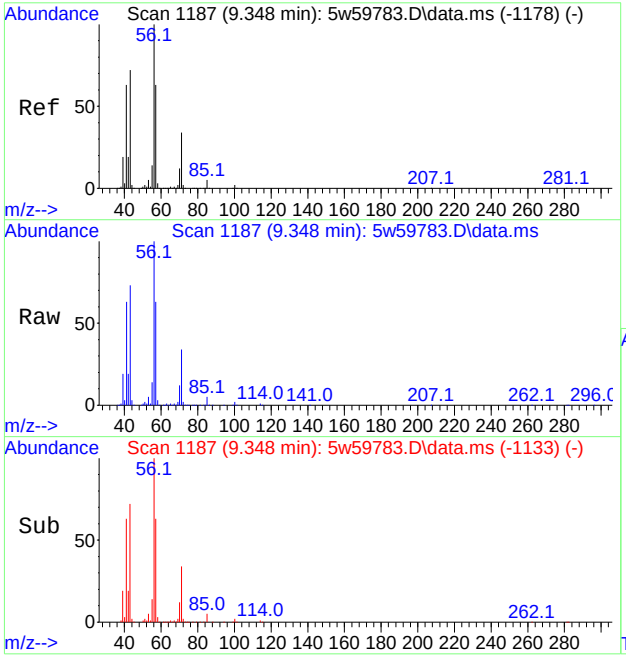


#53
CYCLOHEXANE
Concen: 10.80 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 573806

Ion	Ratio	Lower	Upper
84	100		
69	36.9	6.9	66.9
56	128.2	98.2	158.2

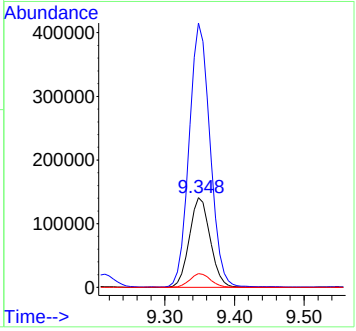


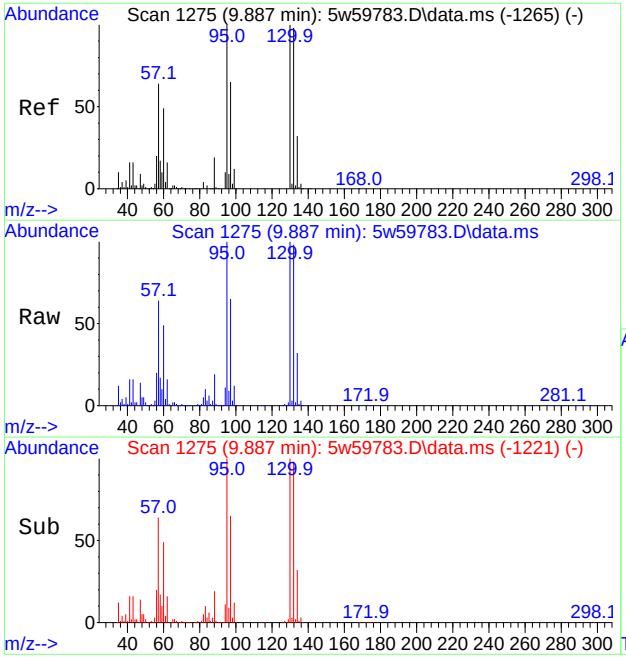


#54
2,3-DIMETHYLPENTANE
Concen: 10.99 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 71 Resp: 294377

Ion	Ratio	Lower	Upper
71	100		
56	294.6	264.6	324.6
85	15.3	0.0	45.3

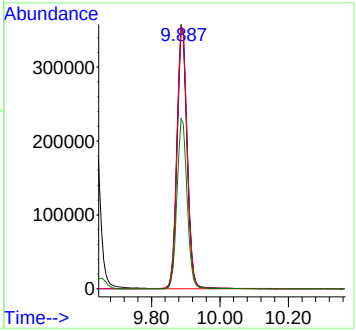


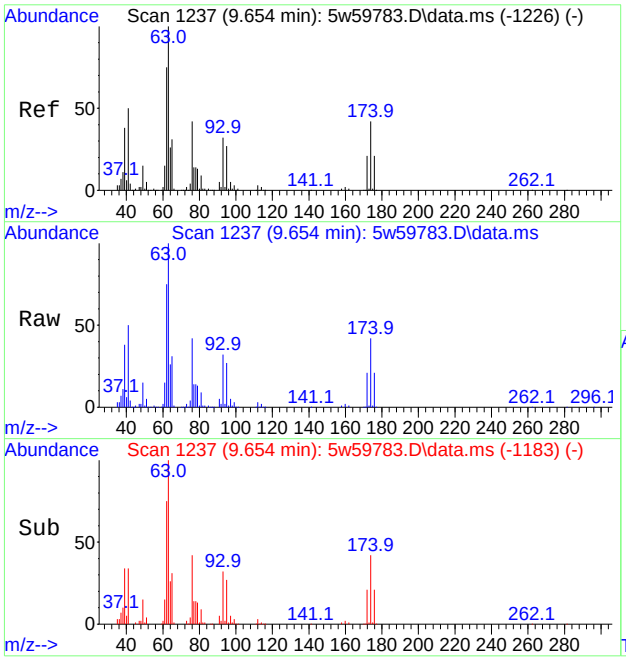


#55
TRICHLOROETHYLENE
Concen: 10.30 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 95 Resp: 733457

Ion	Ratio	Lower	Upper
95	100		
132	99.0	69.0	129.0
130	100.6	70.6	130.6
97	64.6	34.6	94.6

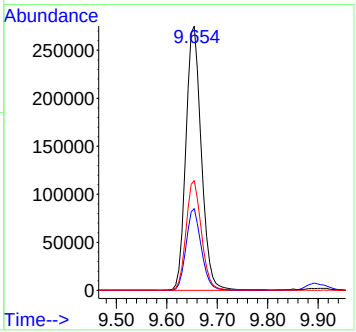


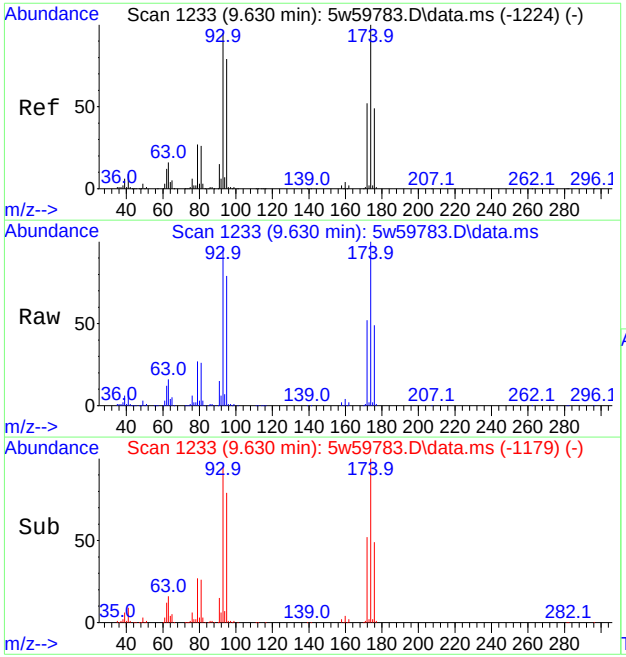


#56
1,2-DICHLOROPROPANE
Concen: 10.35 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 587338

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.5	11.5	71.5

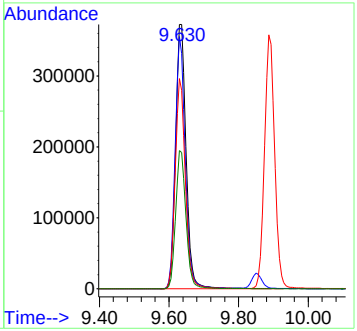


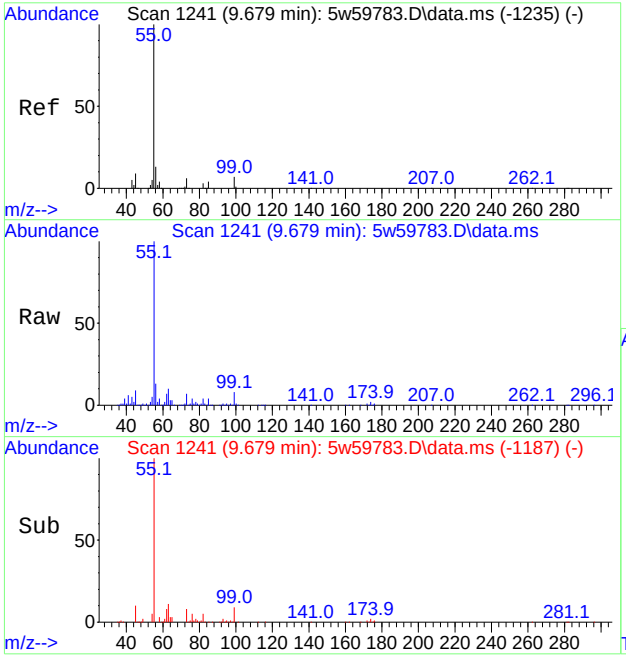


#57
DIBROMOMETHANE
Concen: 9.96 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:174 Resp: 777595

Ion	Ratio	Lower	Upper
174	100		
93	92.8	65.0	120.6
95	77.8	54.5	101.1
172	51.9	36.3	67.5

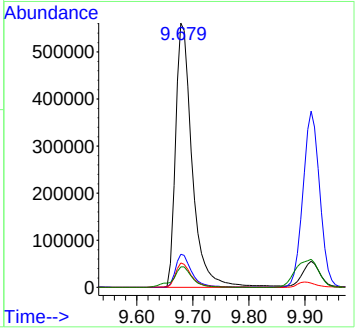


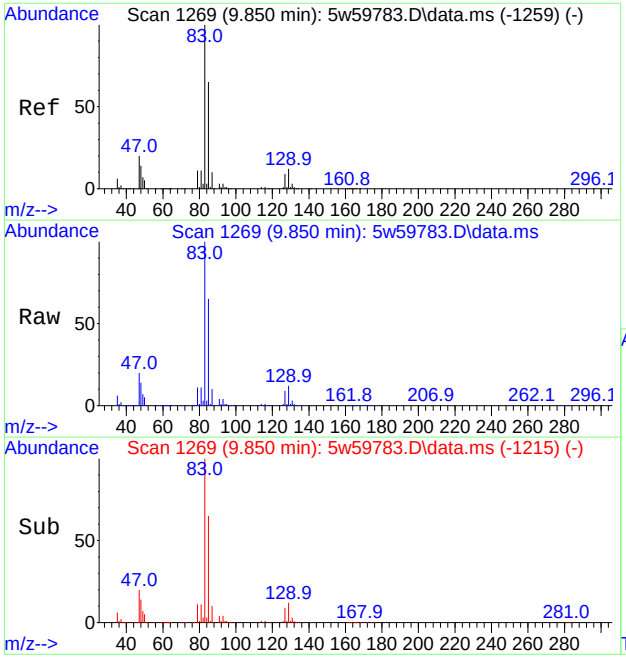


#58
ETHYL ACRYLATE
Concen: 11.15 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 1150308

Ion	Ratio	Lower	Upper
55	100		
56	12.3	8.6	16.0
45	9.4	6.6	12.2
99	9.2	6.4	12.0

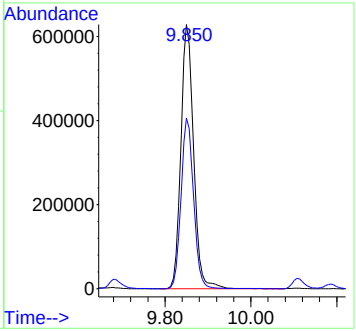


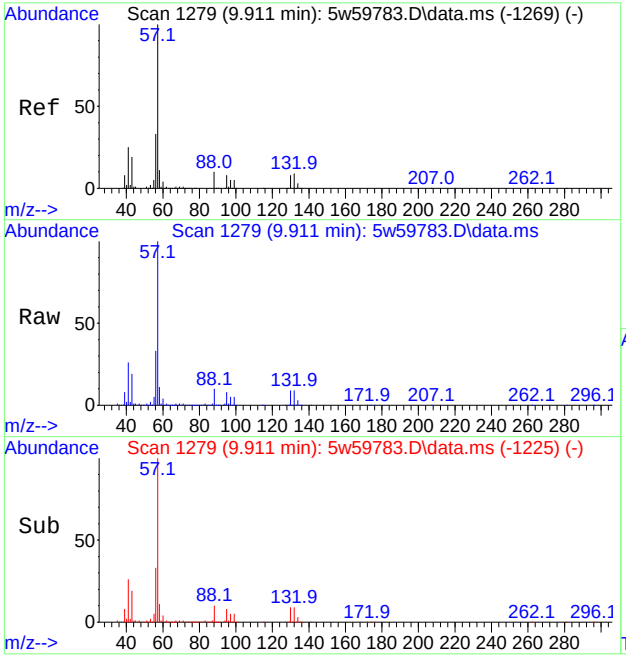


#59
BROMODICHLOROMETHANE
Concen: 10.19 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1291376

Ion	Ratio	Lower	Upper
83	100		
85	63.4	33.4	93.4

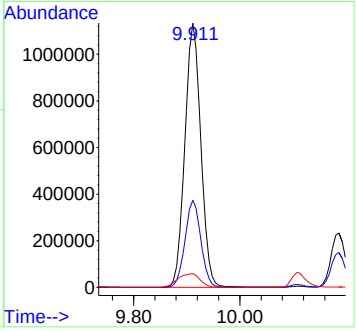


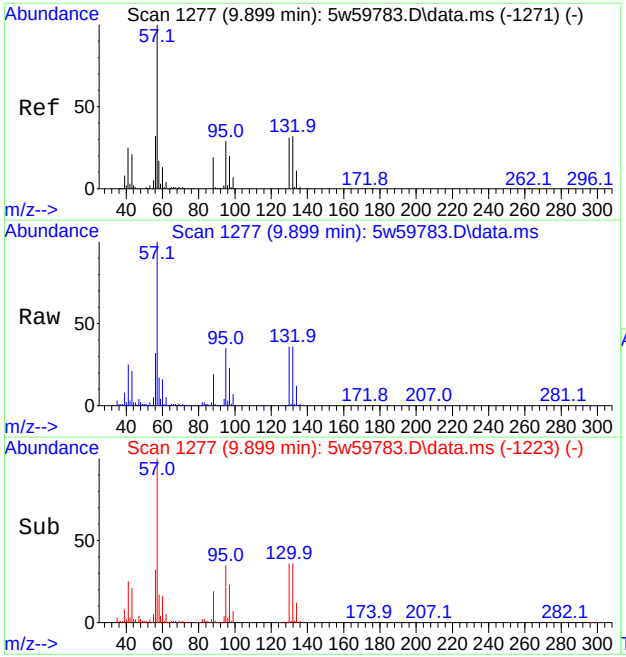


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.46 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 2382864

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.3	0.0	37.3

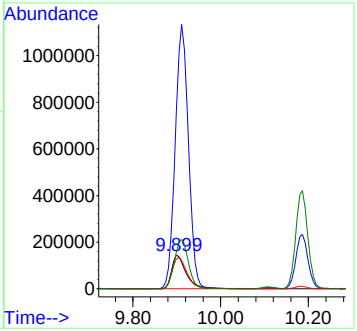


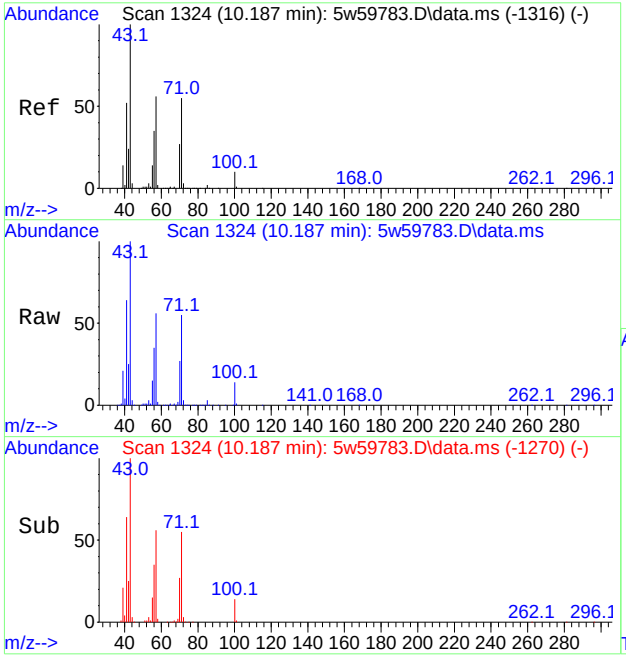


#61
1,4-DIOXANE
Concen: 12.16 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 88 Resp: 335180

Ion	Ratio	Lower	Upper
88	100		
57	524.2	494.2	554.2
58	88.9	58.9	118.9
43	108.3	78.3	138.3

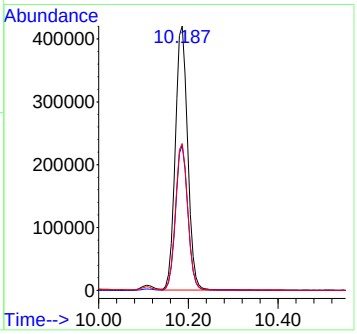


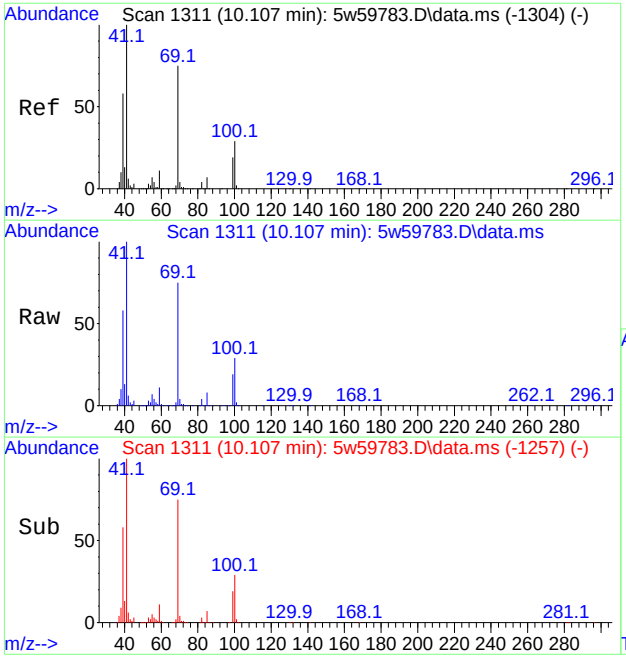


#62
HEPTANE
Concen: 9.62 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 809108

Ion	Ratio	Lower	Upper
43	100		
71	54.5	24.5	84.5
57	56.2	26.2	86.2

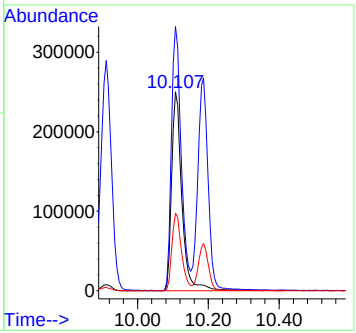


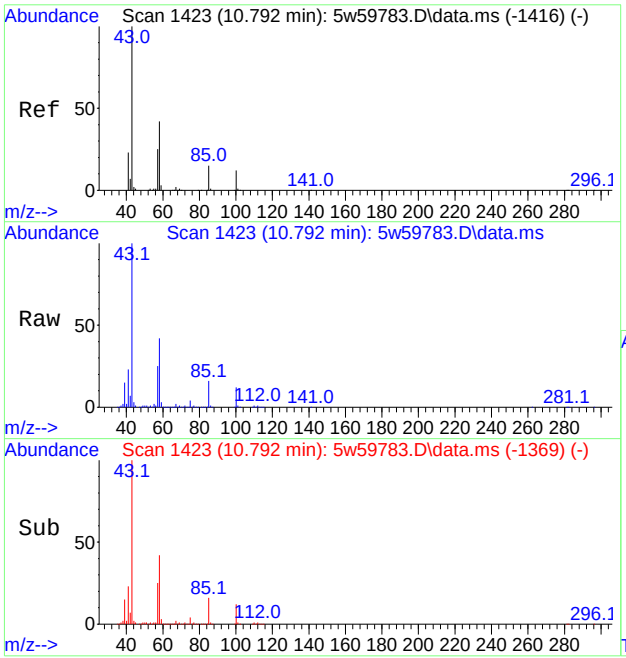


#63
METHYL METHACRYLATE
Concen: 12.20 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 505563

Ion	Ratio	Lower	Upper
69	100		
41	125.3	95.3	155.3
100	36.3	6.3	66.3

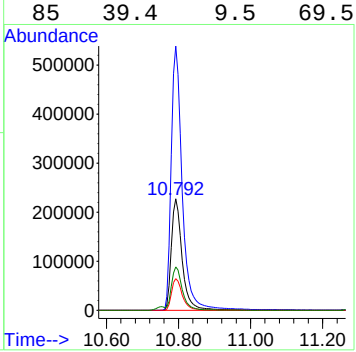


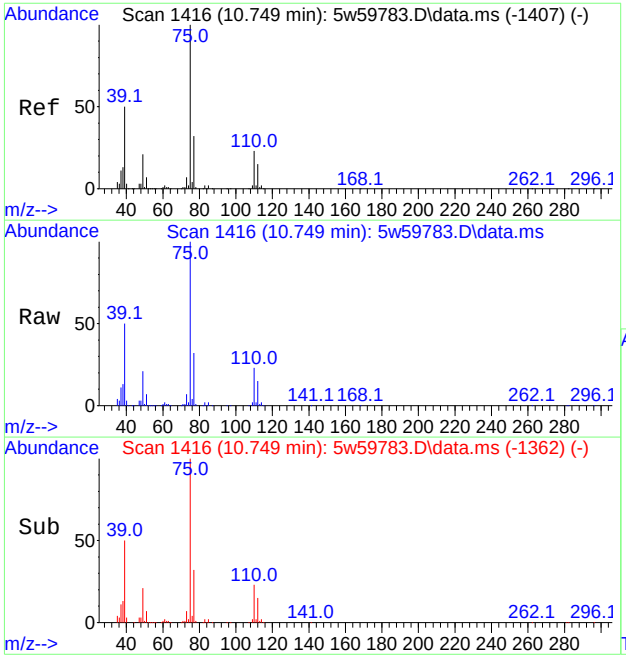


#64
METHYL ISOBUTYL KETONE
Concen: 11.29 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 480676

Ion	Ratio	Lower	Upper
58	100		
43	239.2	209.1	269.1
100	28.8	0.0	58.8
85	39.4	9.5	69.5

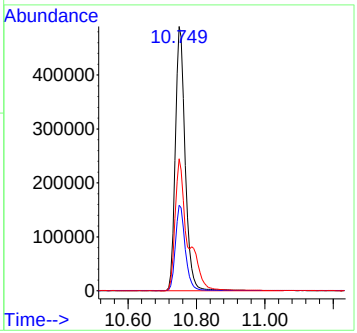


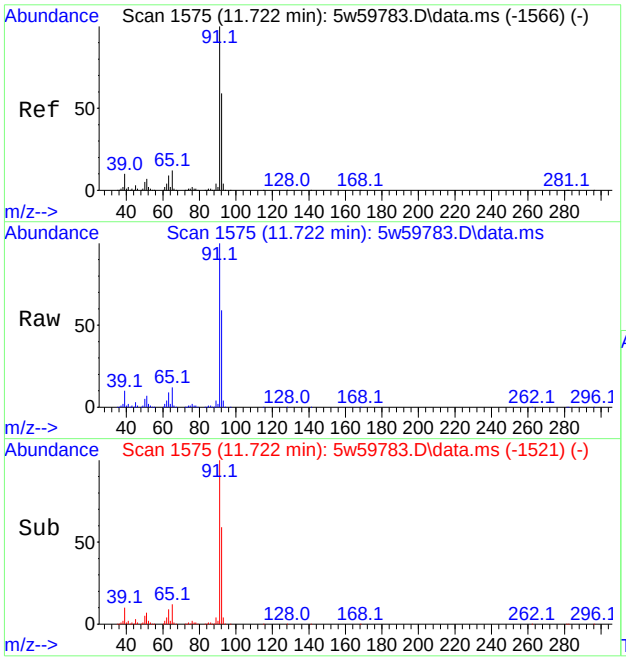


#65
cis-1,3-DICHLOROPROPENE
Concen: 11.23 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 988291

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.3	19.2	79.2

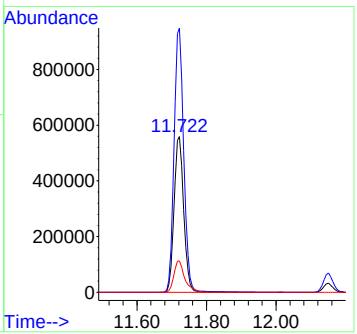


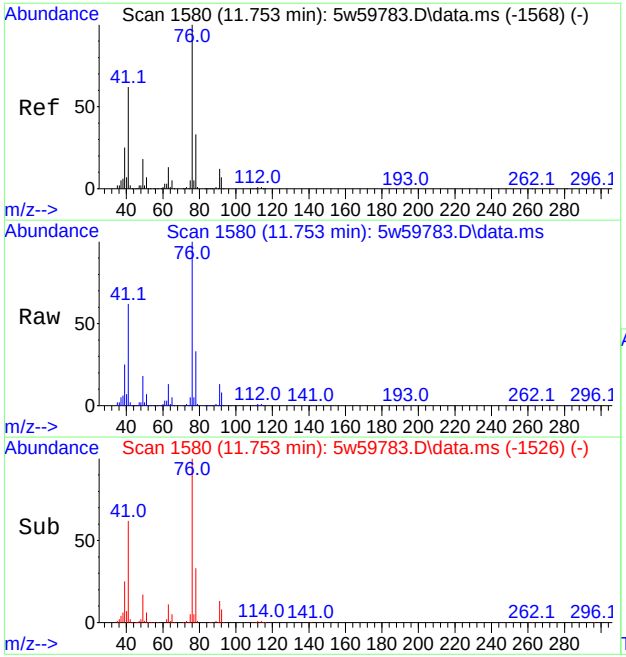


#66
TOLUENE
Concen: 11.29 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 92 Resp: 1078428

Ion	Ratio	Lower	Upper
92	100		
91	170.1	140.1	200.1
65	23.1	0.0	53.1

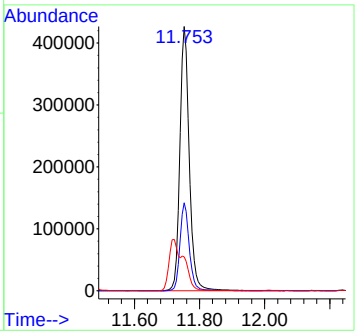


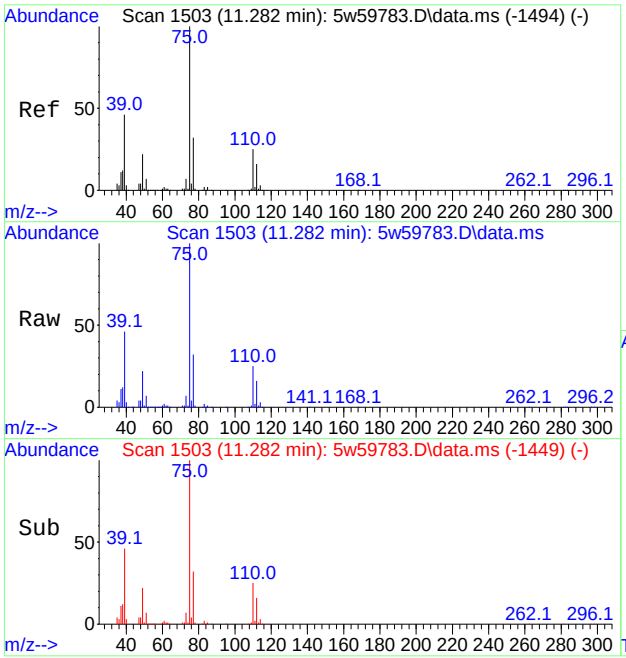


#67
1,3-DICHLOROPROPANE
Concen: 10.80 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 866163

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	10.1	7.2	13.4

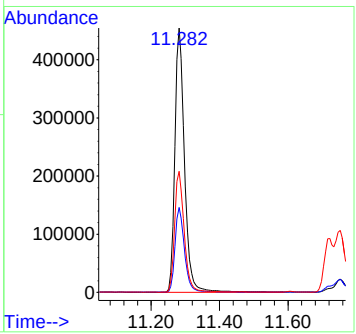


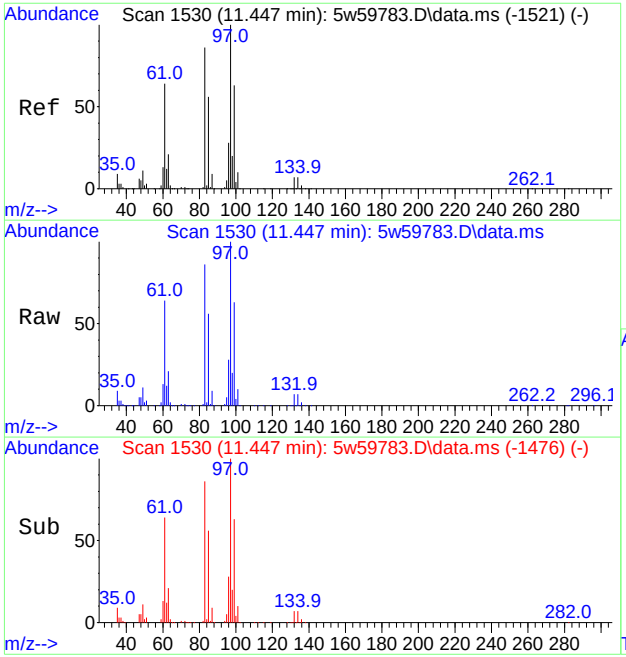


#68
trans-1,3-DICHLOROPROPENE
Concen: 11.02 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 890794

Ion	Ratio	Lower	Upper
75	100		
77	31.6	1.7	61.7
39	46.1	16.2	76.2

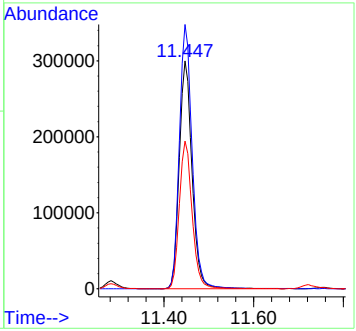


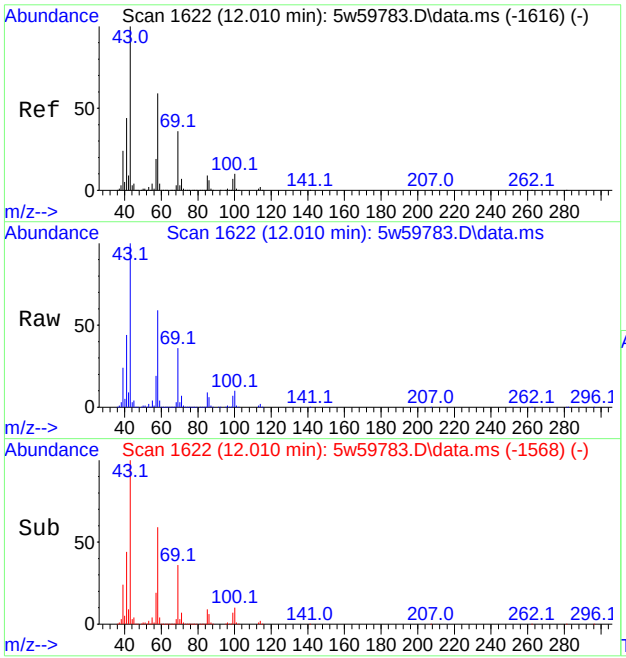


#69
1,1,2-TRICHLOROETHANE
Concen: 11.35 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 593800

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.3	35.3	95.3

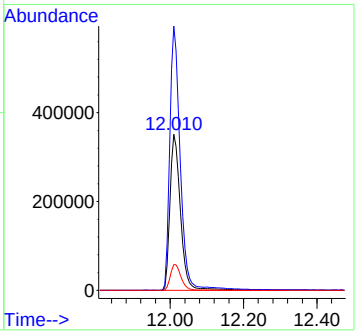


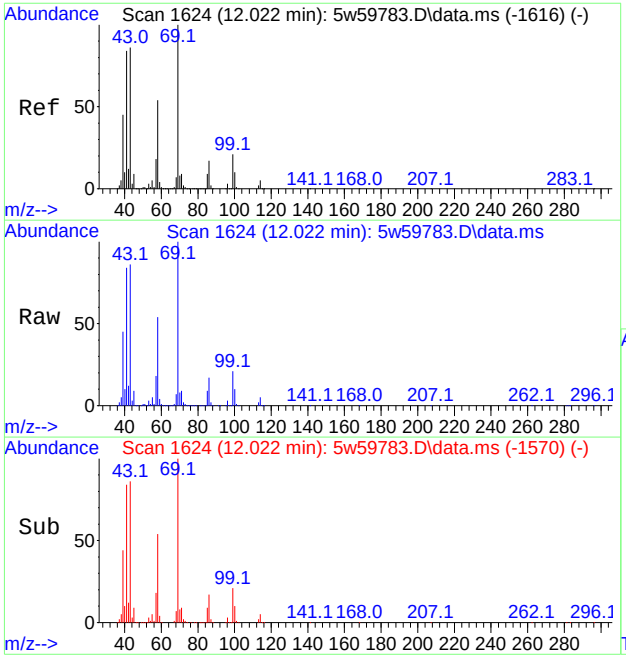


#71
2-HEXANONE
Concen: 12.76 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 708433

Ion	Ratio	Lower	Upper
58	100		
43	167.2	137.2	197.2
100	16.9	0.0	46.9

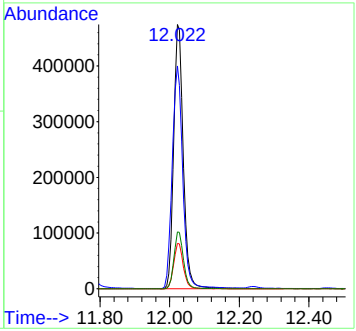


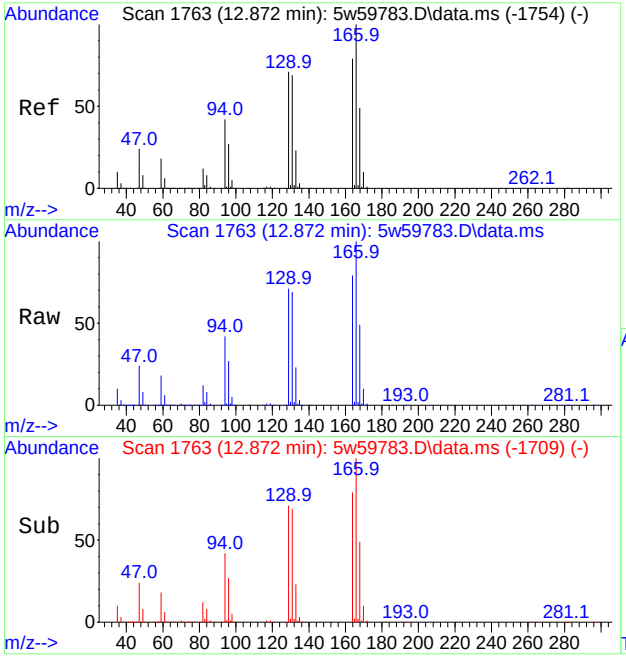


#72
ETHYL METHACRYLATE
Concen: 13.03 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 915611

Ion	Ratio	Lower	Upper
69	100		
41	91.5	64.0	119.0
86	17.2	12.0	22.4
99	21.4	15.0	27.8

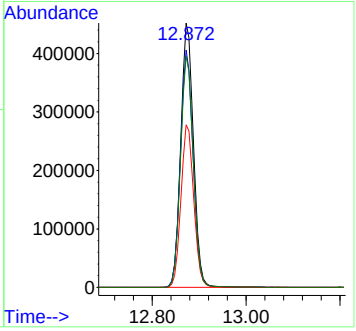


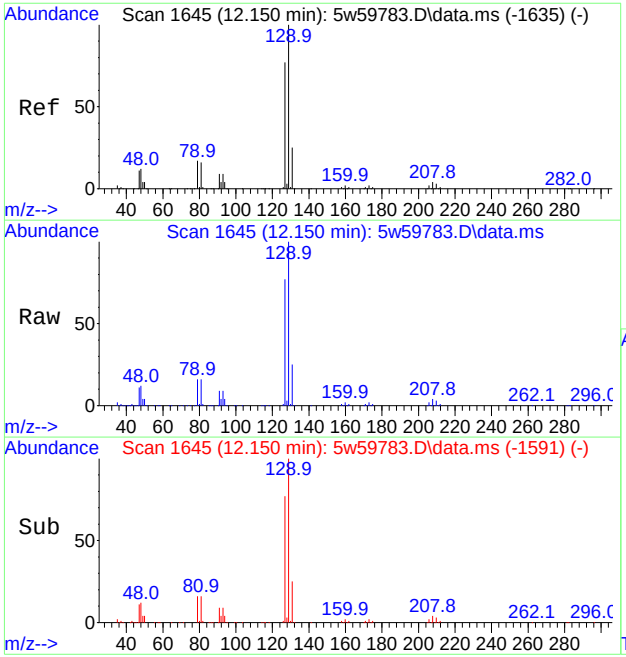


#73
TETRACHLOROETHYLENE
Concen: 10.39 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:164 Resp: 851797

Ion	Ratio	Lower	Upper
164	100		
129	89.7	59.7	119.7
168	62.2	32.2	92.2
131	87.8	57.8	117.8

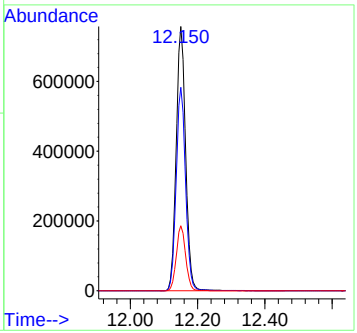


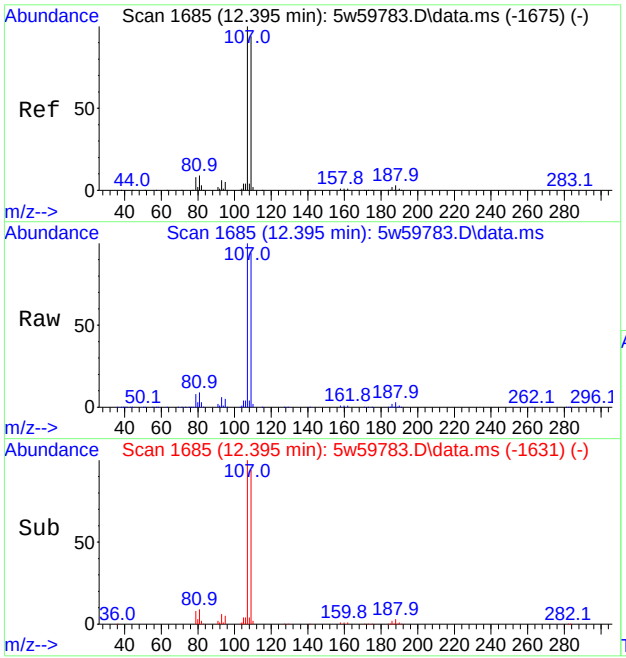


#74
DIBROMOCHLOROMETHANE
Concen: 10.66 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:129 Resp: 1470928

Ion	Ratio	Lower	Upper
129	100		
127	77.1	47.1	107.1
131	24.5	0.0	54.5

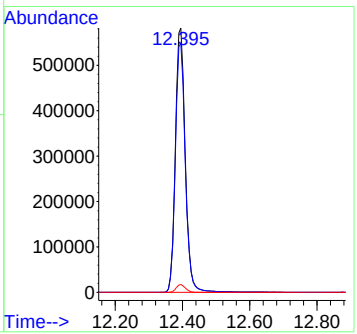


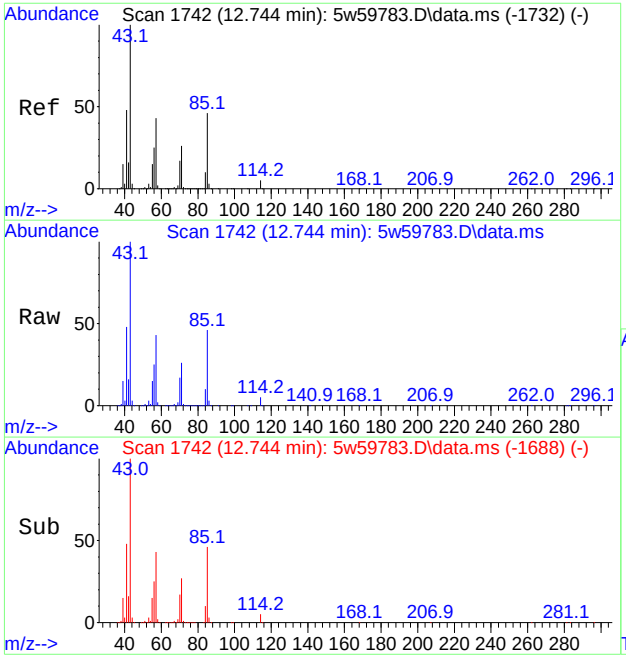


#75
1,2-DIBROMOETHANE
Concen: 11.73 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:107 Resp: 1182589

Ion	Ratio	Lower	Upper
107	100		
109	94.8	64.8	124.8
188	2.8	0.0	32.8

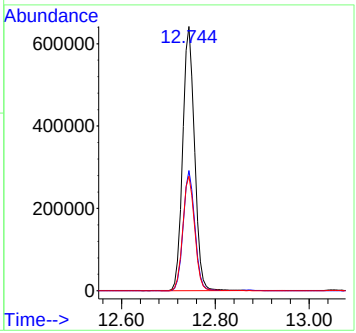


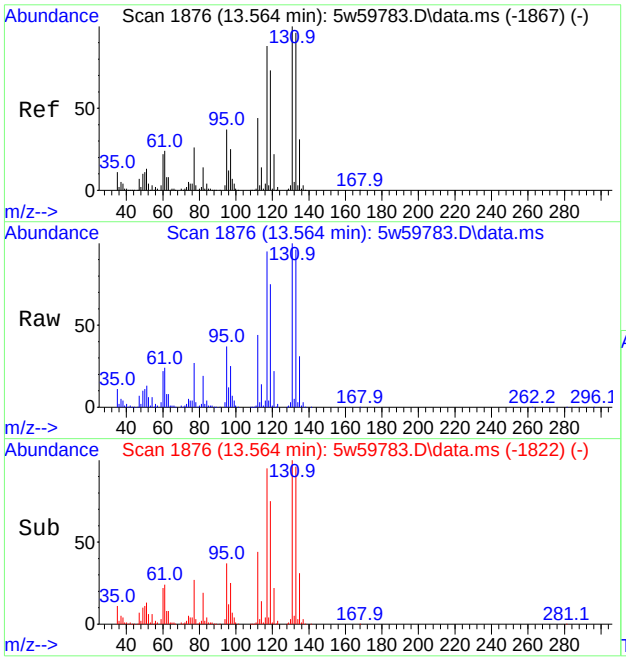


#76
OCTANE
Concen: 9.72 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1128893

Ion	Ratio	Lower	Upper
43	100		
85	44.6	14.6	74.6
57	43.7	13.7	73.7

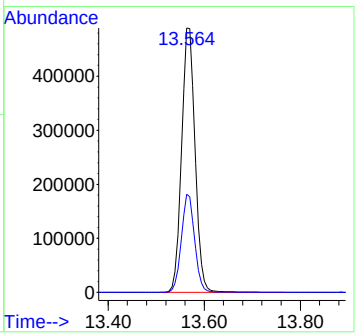


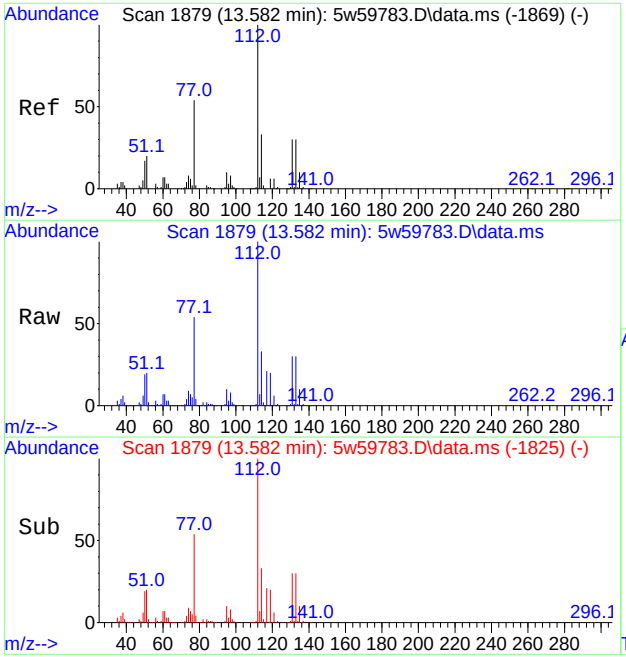


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.52 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:131 Resp: 951903

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

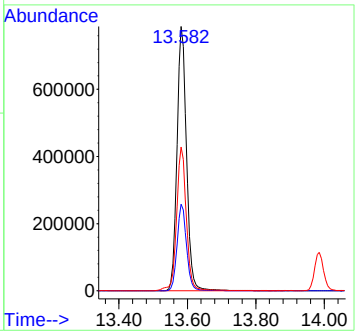


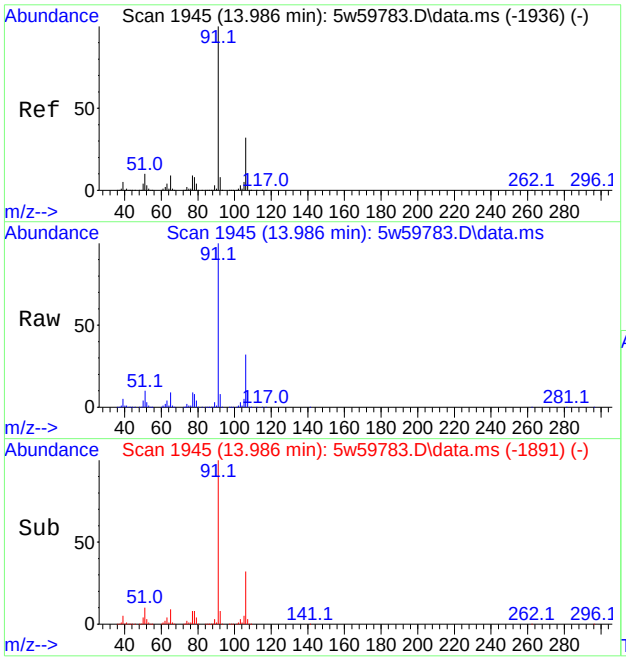


#78
CHLOROBENZENE
Concen: 10.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:112 Resp: 1532486

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.4	25.4	85.4

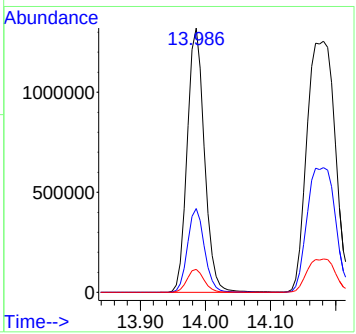


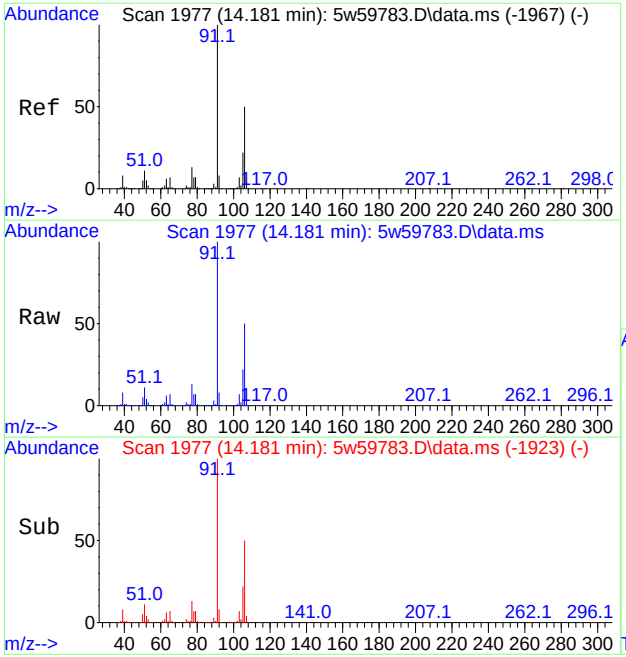


#79
ETHYLBENZENE
Concen: 11.38 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2426187

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.3	61.3
77	8.6	0.0	38.6

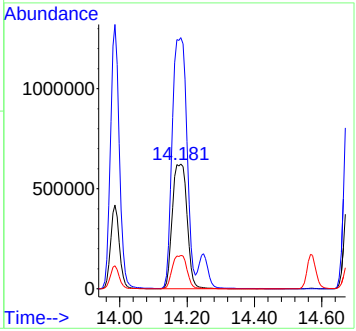


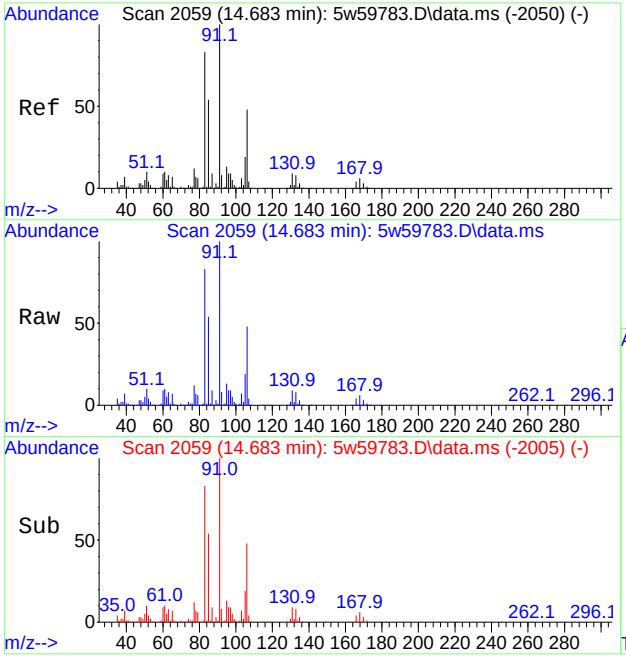


#80
m,p-XYLENE
Concen: 23.39 PPBV
RT: 14.181 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 1894377

Ion	Ratio	Lower	Upper
106	100		
91	201.0	171.0	231.0
77	26.7	0.0	56.7

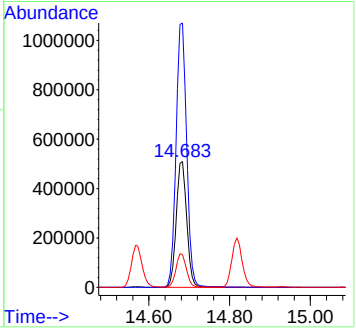


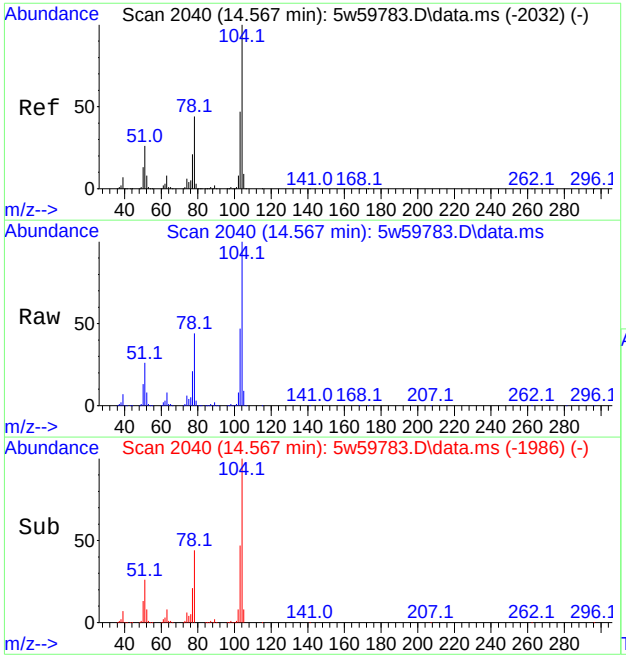


#81
o-XYLENE
Concen: 12.40 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 921132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	181.6	241.6
77	26.6	0.0	56.6

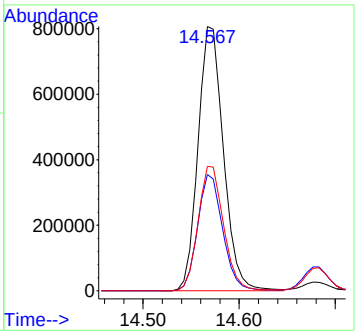


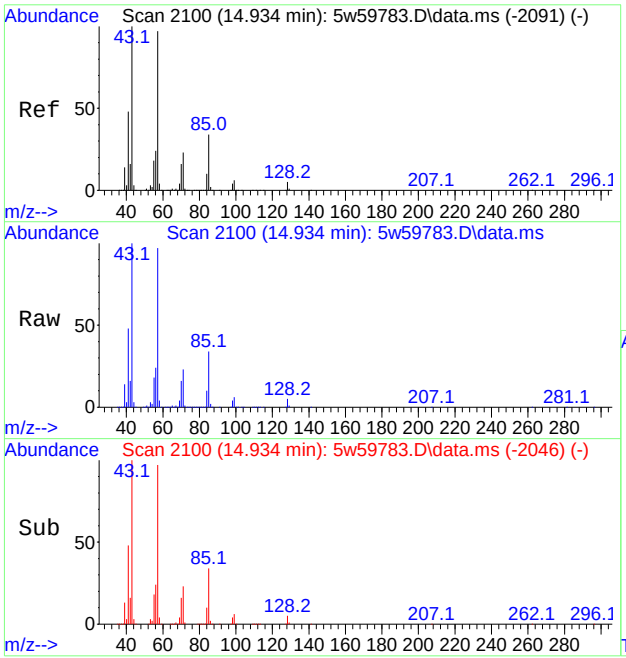


#82
STYRENE
Concen: 13.06 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:104 Resp: 1485661

Ion	Ratio	Lower	Upper
104	100		
78	43.3	13.3	73.3
103	47.2	17.2	77.2

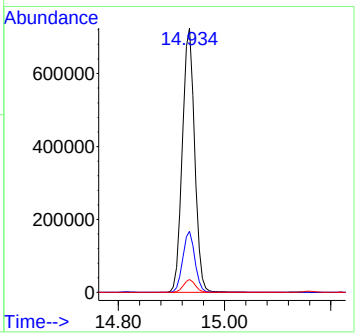


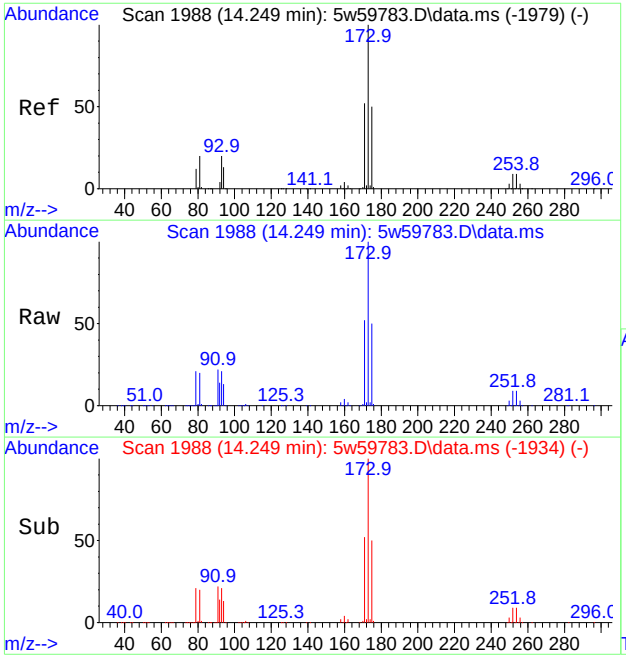


#83
NONANE
Concen: 10.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1167938

Ion	Ratio	Lower	Upper
43	100		
71	22.7	0.0	52.7
128	4.7	0.0	34.7

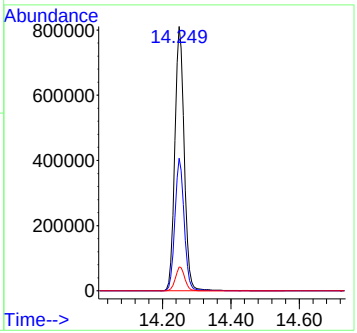


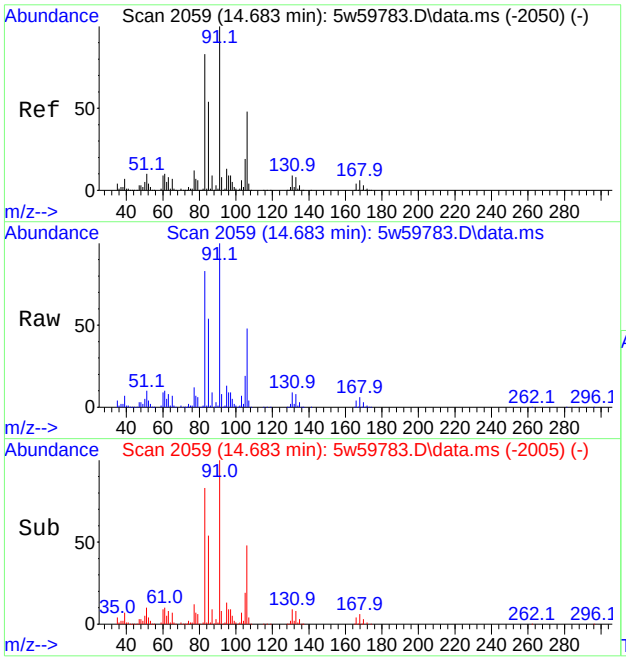


#84
BROMOFORM
Concen: 10.92 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:173 Resp: 1553327

Ion	Ratio	Lower	Upper
173	100		
175	49.6	19.6	79.6
254	9.0	0.0	39.0

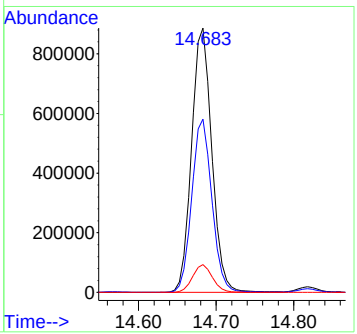


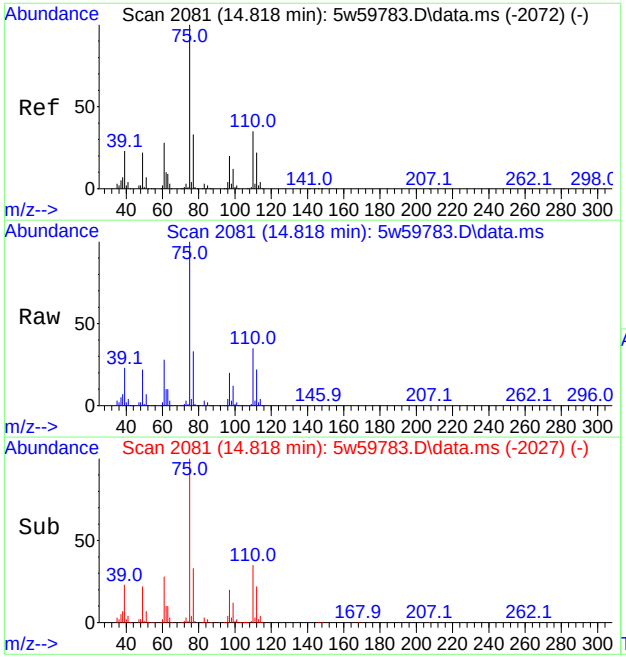


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.27 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1606320

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.2	95.2
131	10.3	0.0	40.3

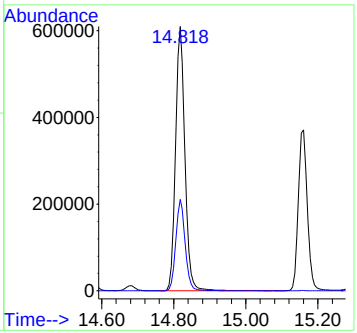


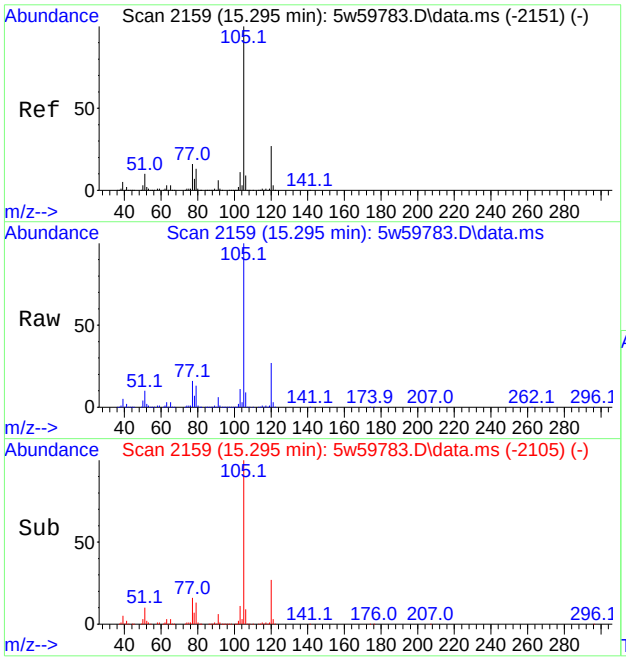


#87
1,2,3-TRICHLOROPROPANE
Concen: 9.96 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 1108756

Ion	Ratio	Lower	Upper
75	100		
110	34.4	4.4	64.4

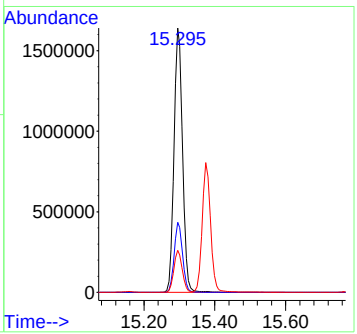


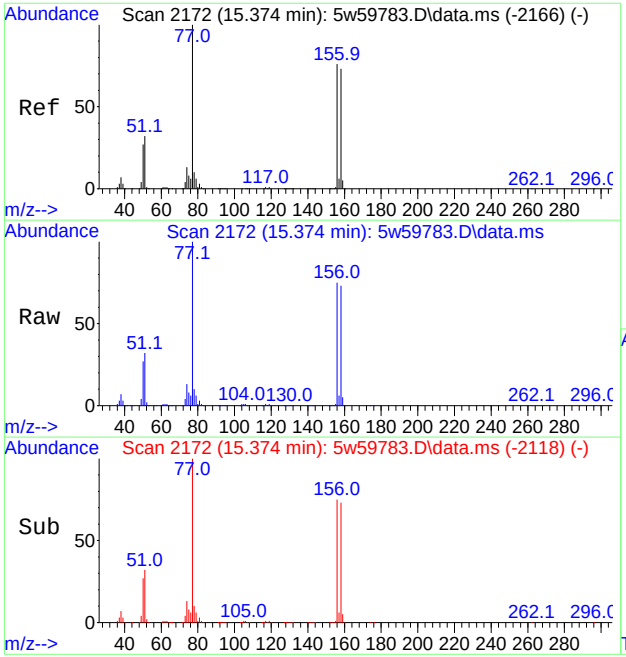


#88
ISOPROPYLBENZENE
Concen: 11.04 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2737713

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

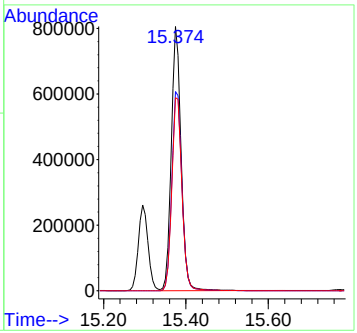


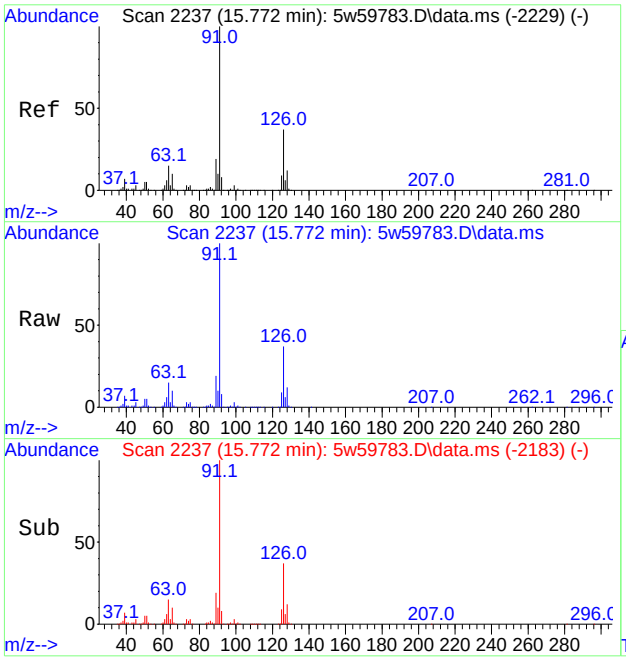


#89
BROMOBENZENE
Concen: 10.19 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 77 Resp: 1323542

Ion	Ratio	Lower	Upper
77	100		
156	78.4	54.9	101.9
158	76.4	53.5	99.3

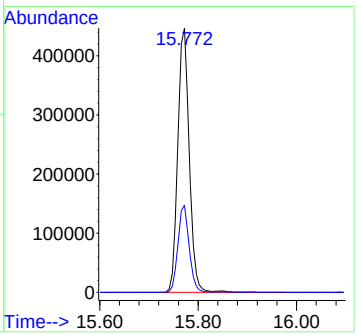


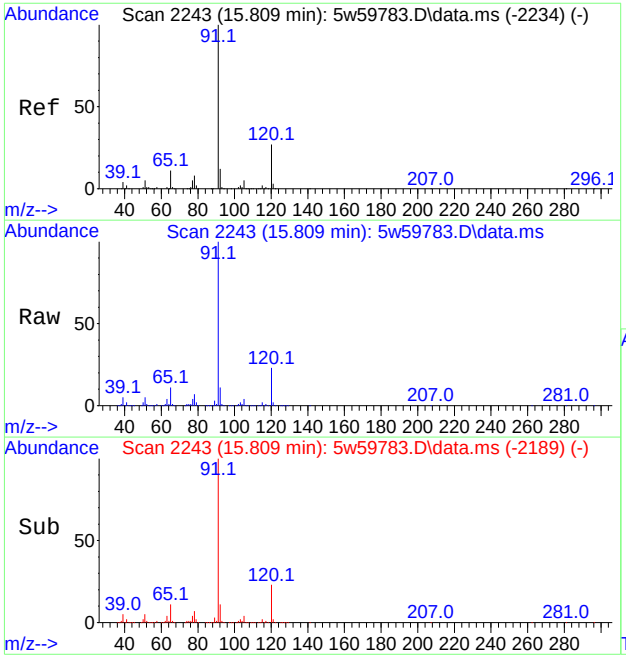


#90
2-CHLOROTOLUENE
Concen: 10.93 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:126 Resp: 723050

Ion	Ratio	Lower	Upper
126	100		
128	32.7	2.7	62.7

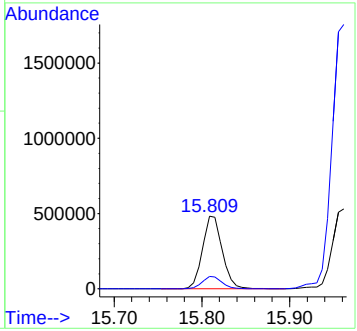


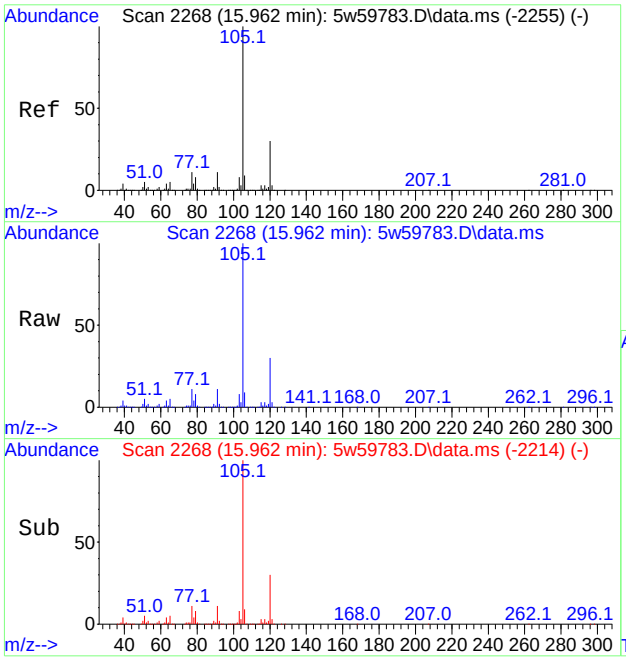


#91
n-PROPYLBENZENE
Concen: 11.44 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:120 Resp: 754817

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

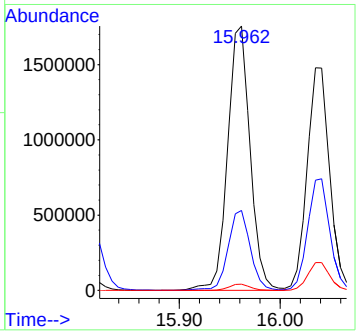


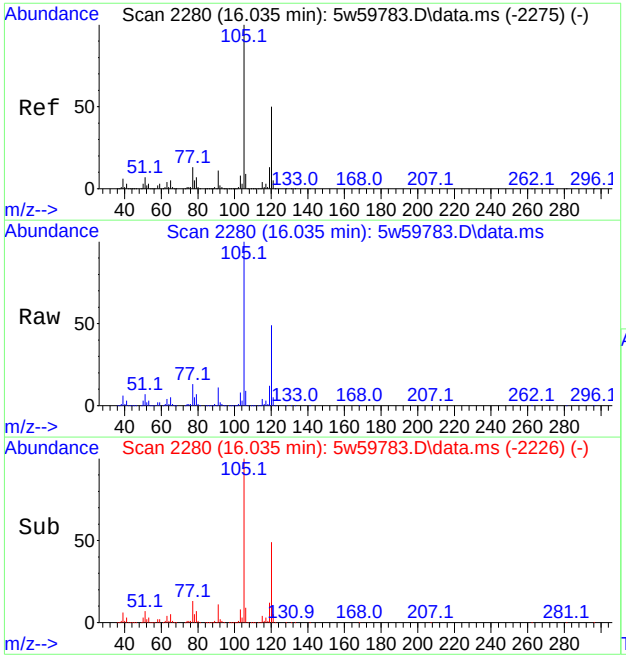


#92
4-ETHYLTOLUENE
Concen: 12.20 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2719805

Ion	Ratio	Lower	Upper
105	100		
120	29.9	0.0	59.9
119	2.3	0.0	32.3

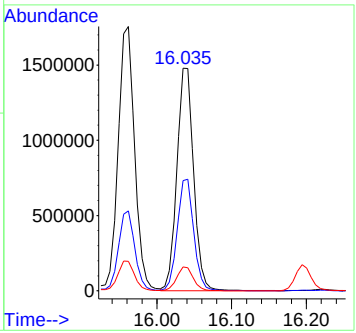


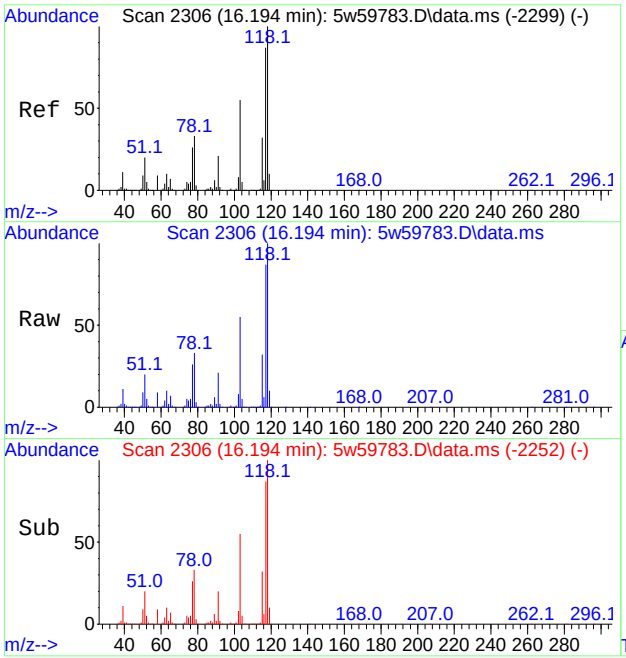


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.13 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2300675

Ion	Ratio	Lower	Upper
105	100		
120	49.4	19.4	79.4
91	10.8	0.0	40.7

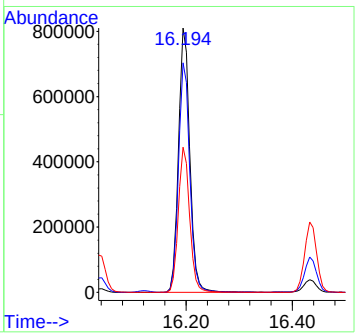


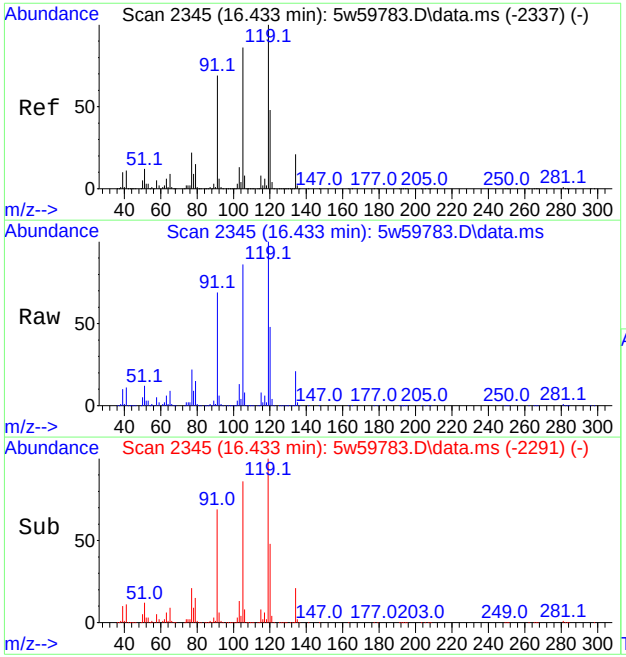


#94
ALPHA-METHYLSTYRENE
Concen: 12.09 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:118 Resp: 1195904

Ion	Ratio	Lower	Upper
118	100		
117	87.0	60.9	113.1
103	55.2	38.6	71.8

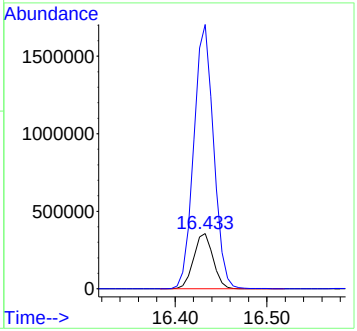


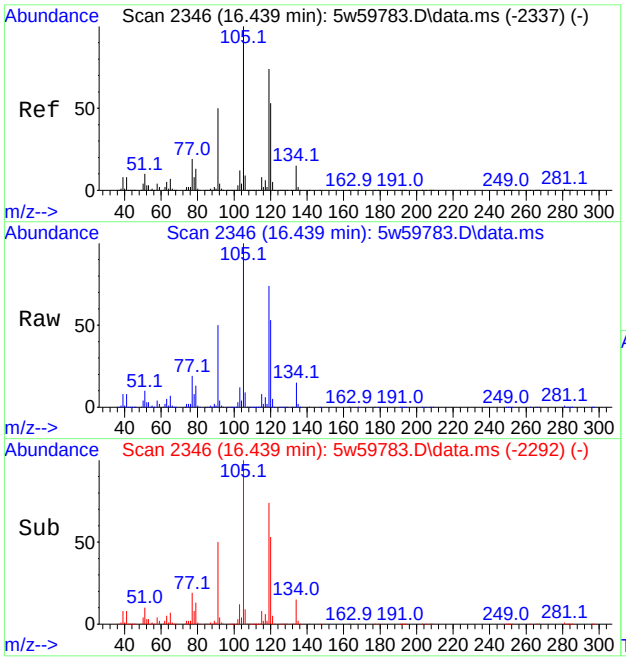


#95
tert-BUTYLBENZENE
Concen: 12.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 523380

Ion	Ratio	Lower	Upper
134	100		
119	489.3	459.3	519.3

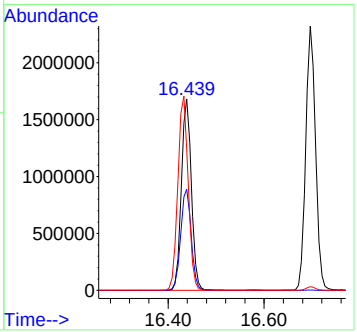


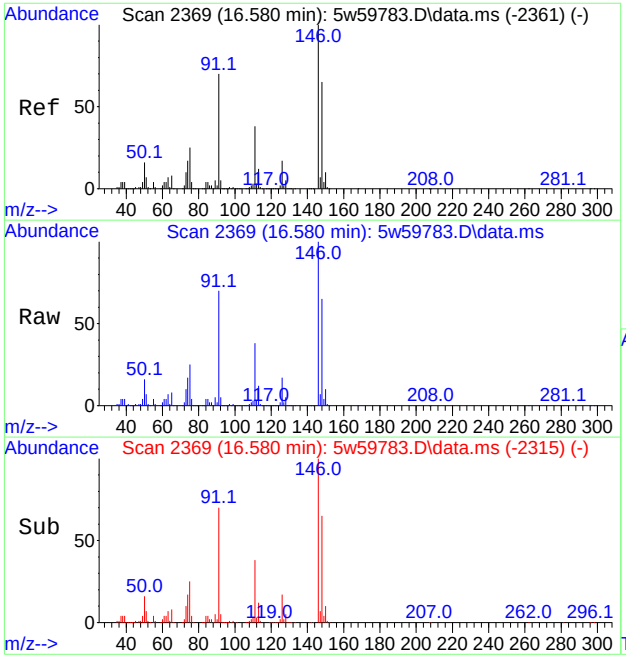


#96
1,2,4-TRIMETHYLBENZENE
Concen: 12.17 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2423323

Ion	Ratio	Lower	Upper
105	100		
120	55.7	25.7	85.7
119	105.7	75.7	135.7

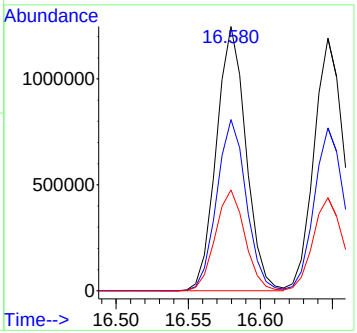


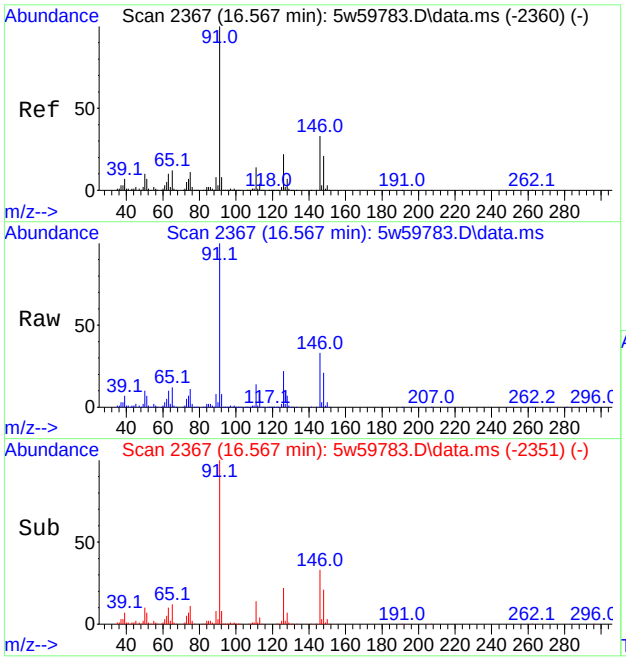


#97
m-DICHLOROBENZENE
Concen: 11.15 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1782947

Ion	Ratio	Lower	Upper
146	100		
148	64.8	34.8	94.8
111	38.2	8.2	68.2

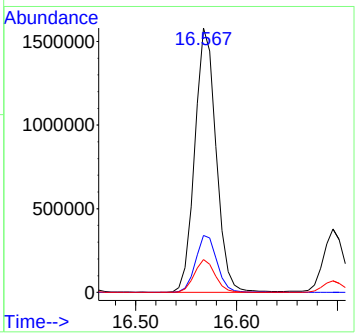


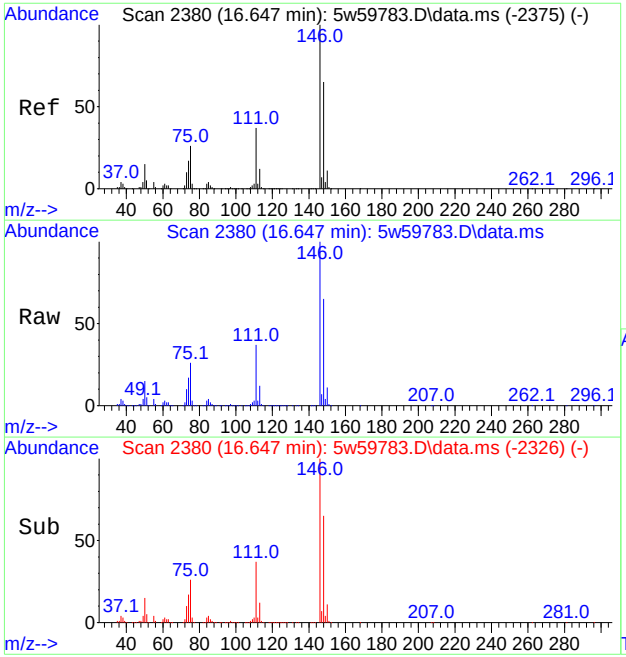


#98
BENZYL CHLORIDE
Concen: 12.73 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2316167

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.2	0.0	42.2

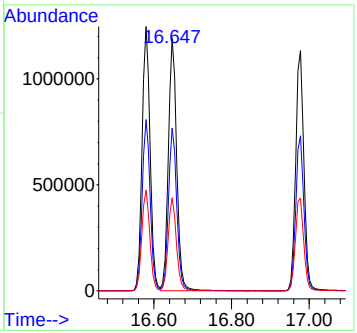


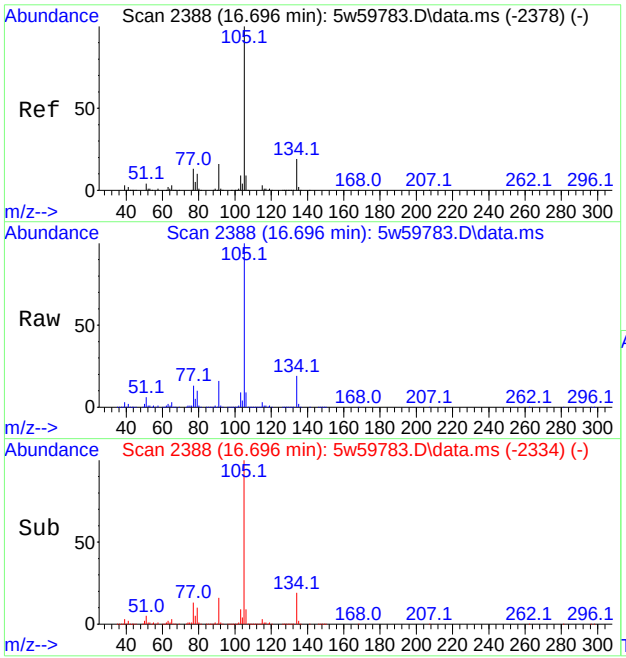


#99
p-DICHLOROBENZENE
Concen: 10.72 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1775311

Ion	Ratio	Lower	Upper
146	100		
148	64.6	34.6	94.6
111	36.7	6.7	66.7

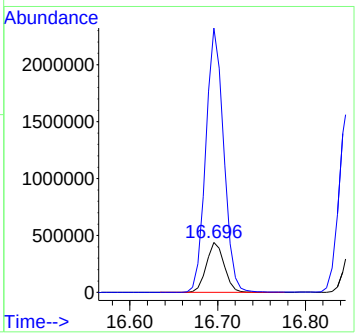


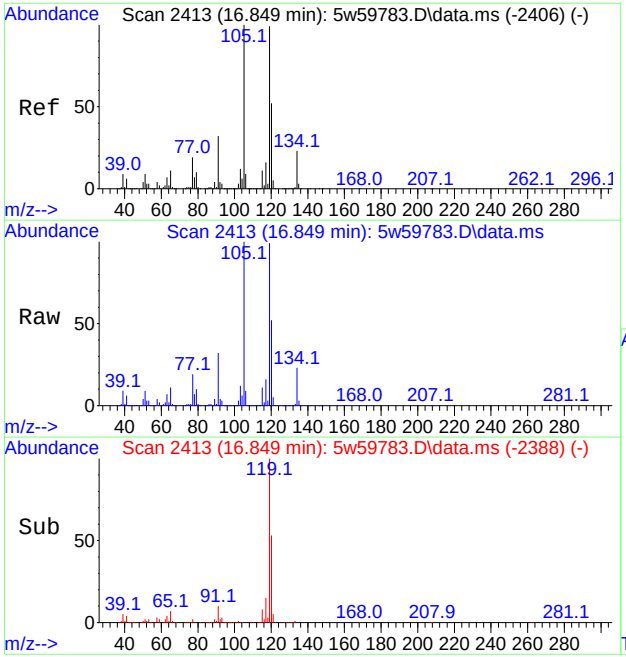


#100
sec-BUTYLBENZENE
Concen: 11.27 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 618616

Ion	Ratio	Lower	Upper
134	100		
105	532.5	502.5	562.5

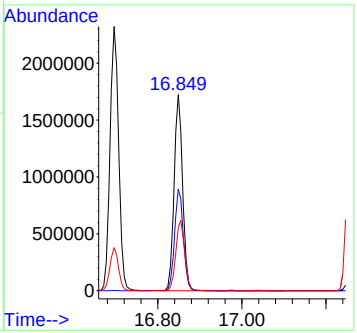


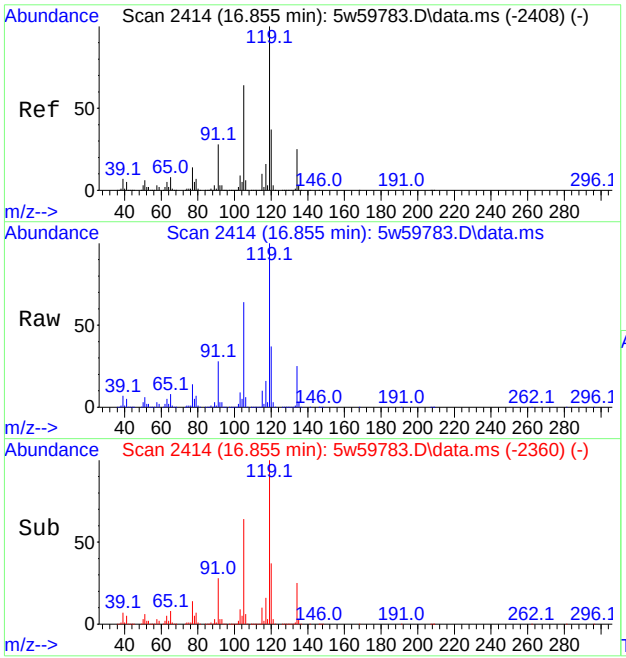


#101
1,2,3-TRIMETHYLBENZENE
Concen: 11.39 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2427524

Ion	Ratio	Lower	Upper
105	100		
120	53.5	23.5	83.5
91	37.4	7.4	67.4

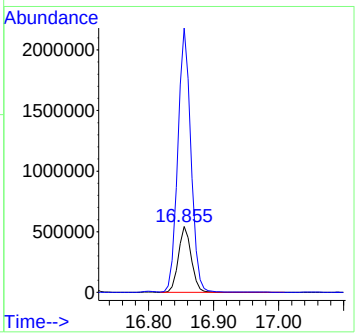


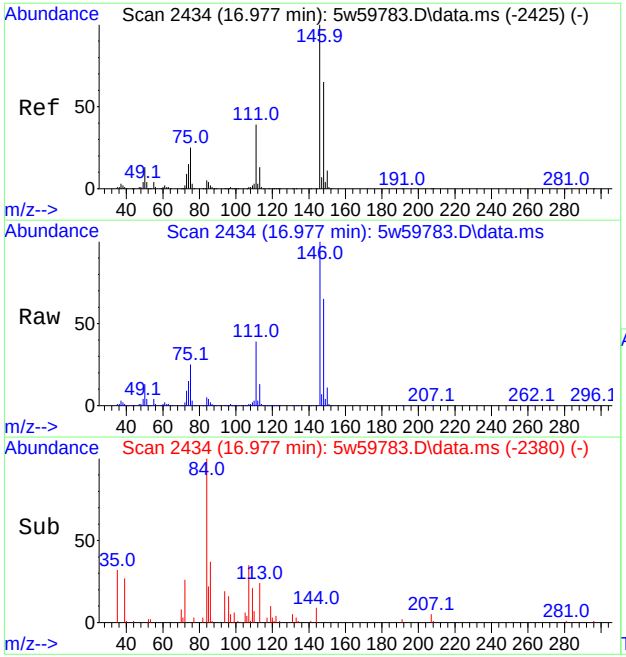


#102
p-ISOPROPYLTOLUENE
Concen: 11.87 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 746734

Ion	Ratio	Lower	Upper
134	100		
119	407.7	377.7	437.7

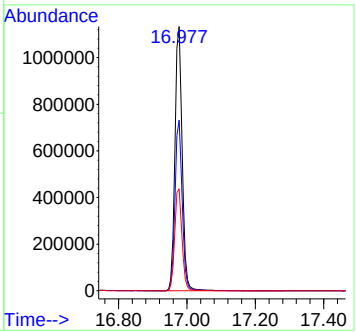


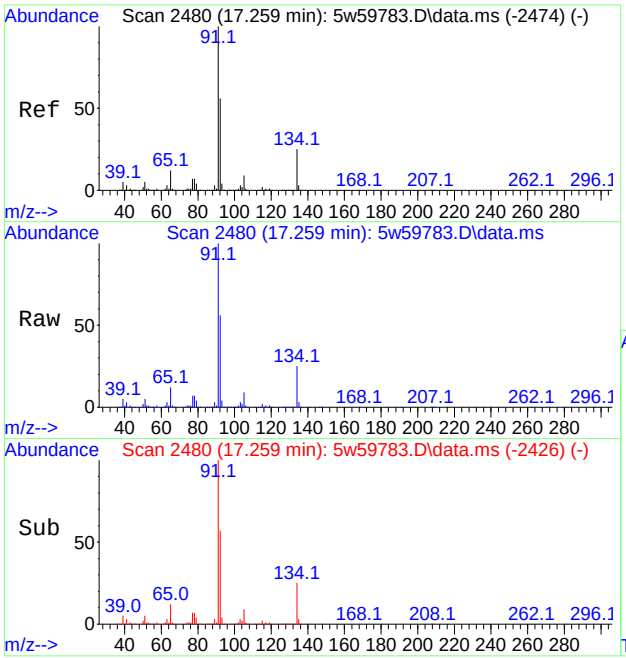


#103
o-DICHLOROBENZENE
Concen: 10.31 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1665215

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.3	94.3
111	39.2	9.2	69.2

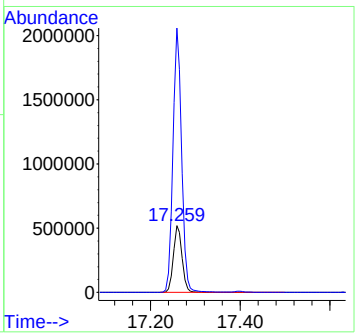


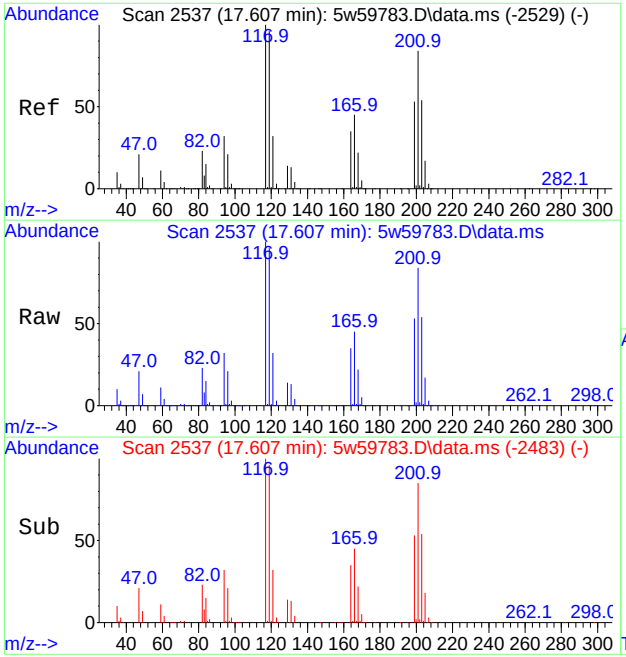


#104
n-BUTYLBENZENE
Concen: 12.21 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 703045

Ion	Ratio	Lower	Upper
134	100		
91	393.1	363.1	423.1

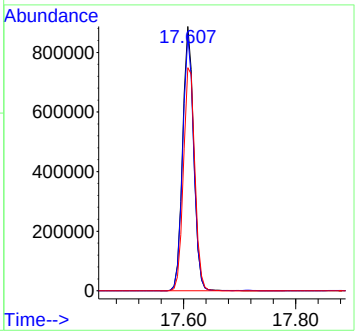


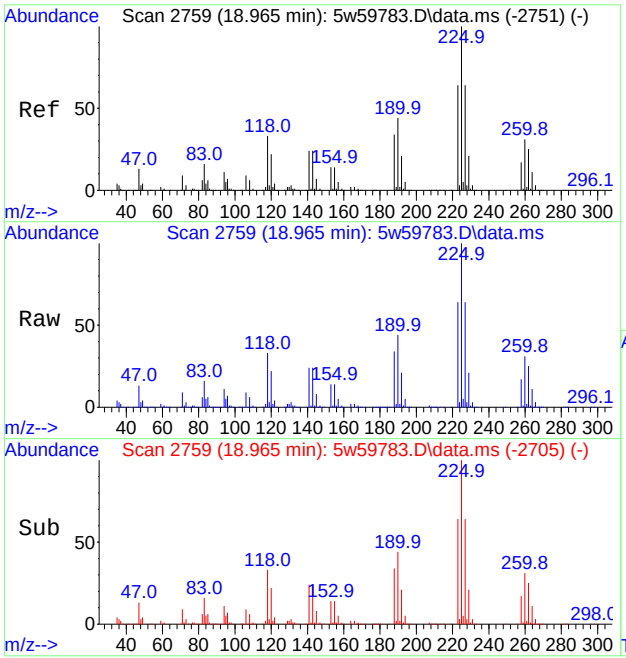


#105
HEXACHLOROETHANE
Concen: 11.22 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1210974

Ion	Ratio	Lower	Upper
117	100		
119	96.0	67.2	124.8
201	87.3	61.1	113.5

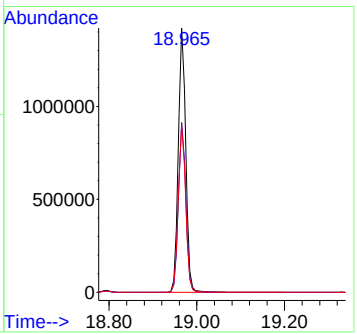


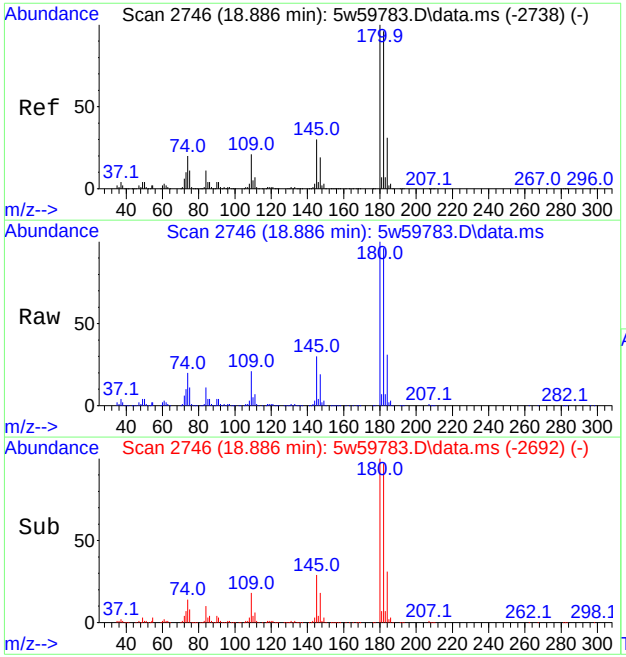


#106
HEXACHLOROBUTADIENE
Concen: 9.84 PPBV
RT: 18.965 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:225 Resp: 1667734

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.3	33.3	93.3

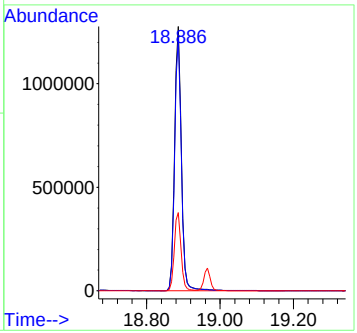


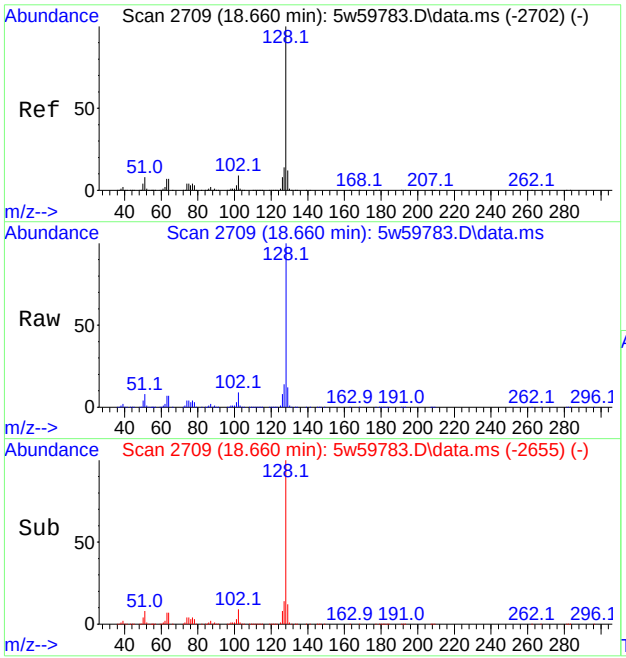


#107
1,2,4-TRICHLOROBENZENE
Concen: 14.54 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:180 Resp: 1638870

Ion	Ratio	Lower	Upper
180	100		
182	95.4	65.4	125.4
145	29.4	0.0	59.4

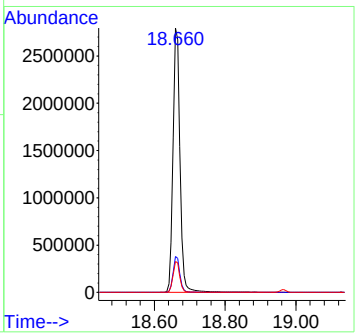


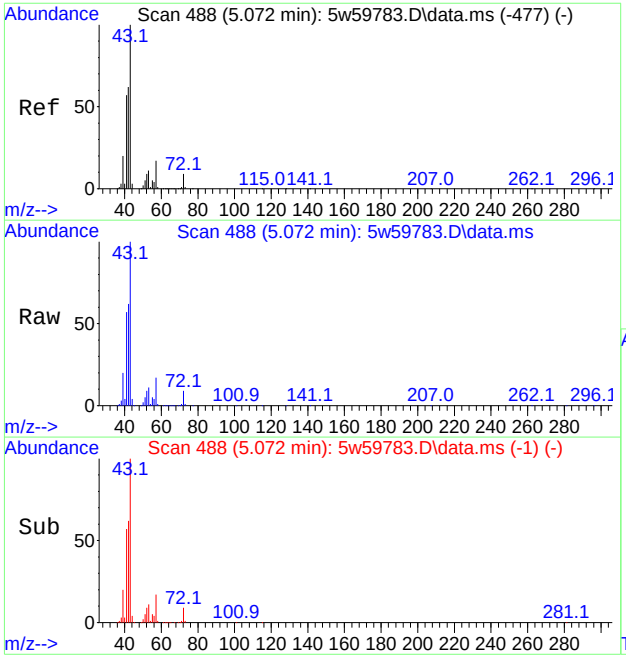


#108
NAPHTHALENE
Concen: 14.35 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:128 Resp: 3829842

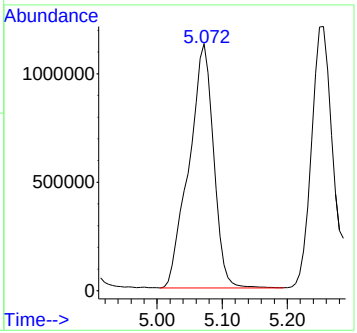
Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	43.3
129	11.4	0.0	41.5





#110
TVHC as equiv Pentane
Concen: 8.08 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:TIC Resp: 2959189



7.7.6

7

Manual Integration Approval Summary

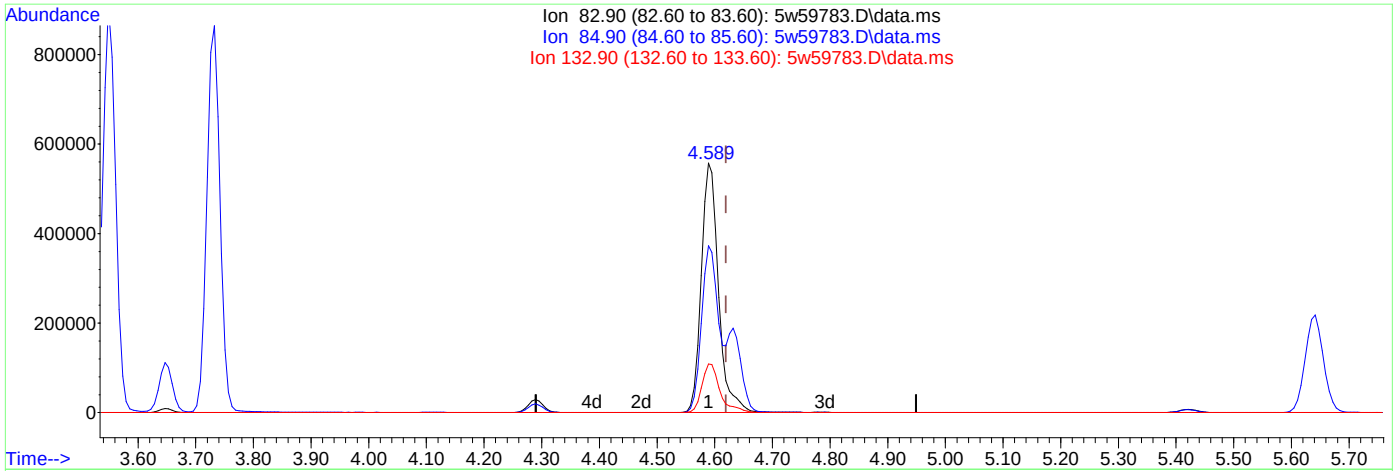
Sample Number: V5W2292-ICC2292 **Method:** TO-15
Lab FileID: 5W59783.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 07:33 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

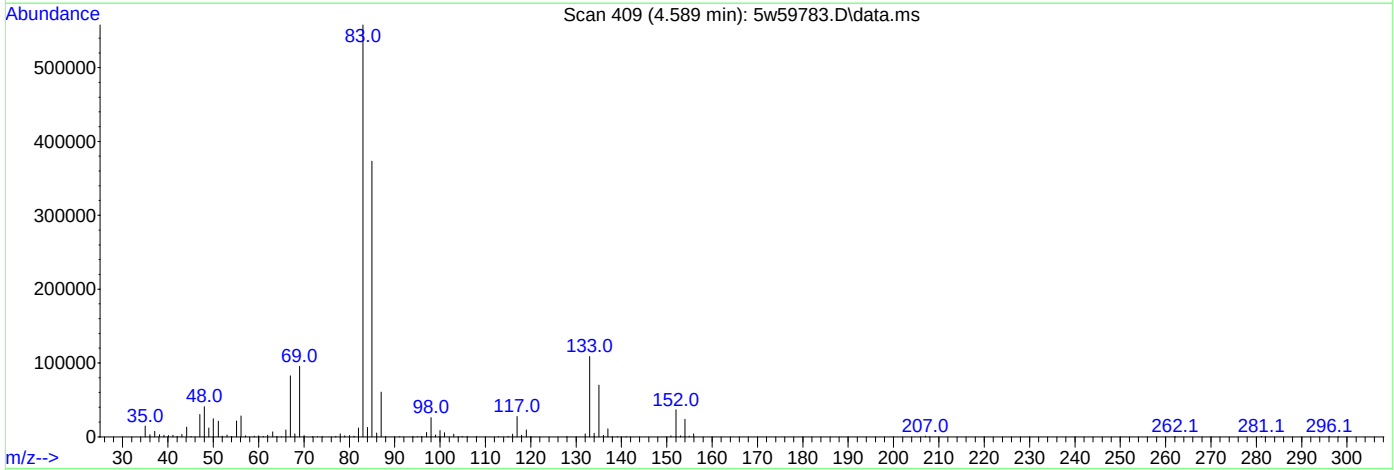
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration





TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (-0.031) 9.91PPBV

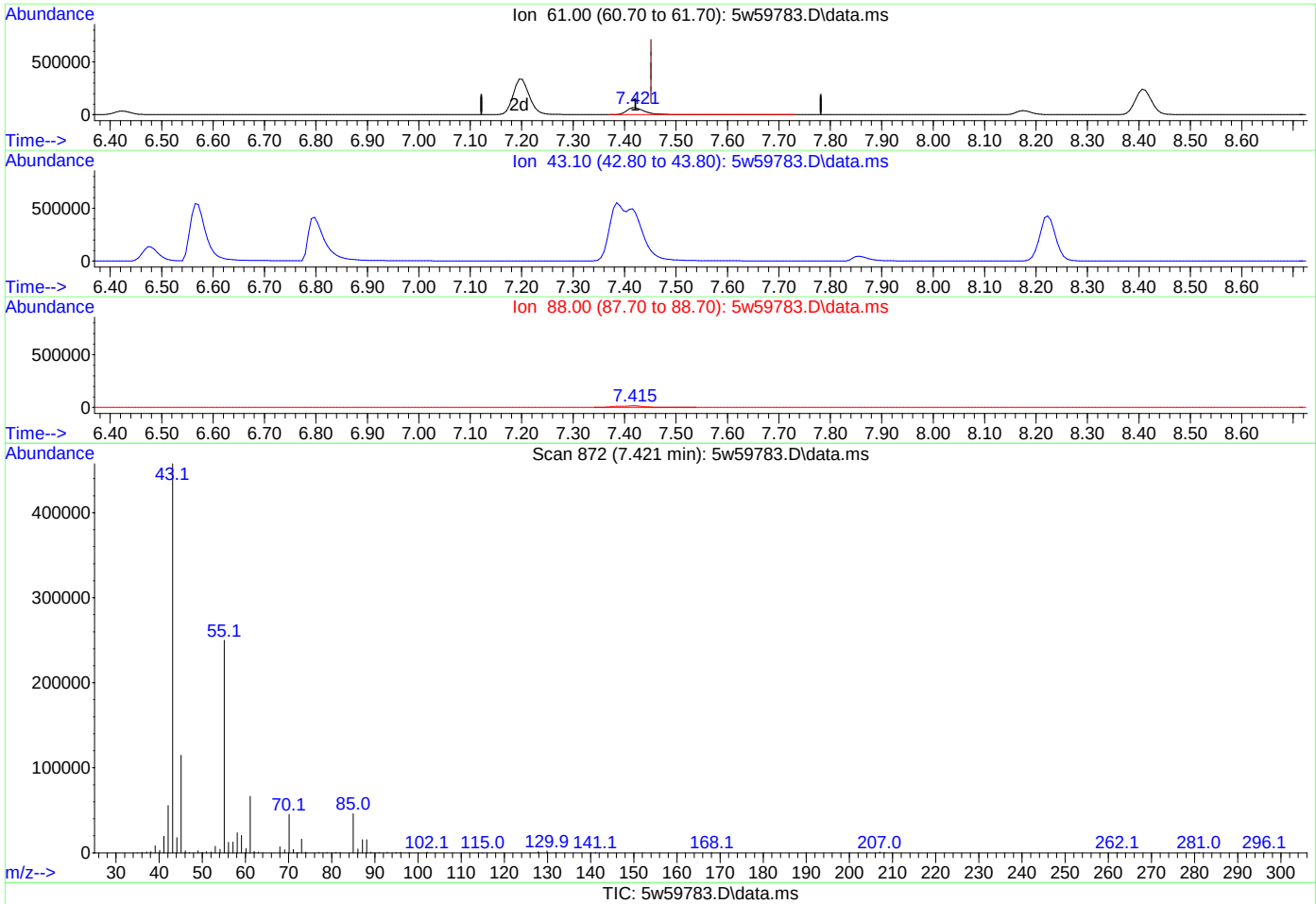
response 1157483

Ion	Exp%	Act%
82.90	100	100
84.90	94.90	94.40
132.90	27.20	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (-0.031) 10.63PPBV

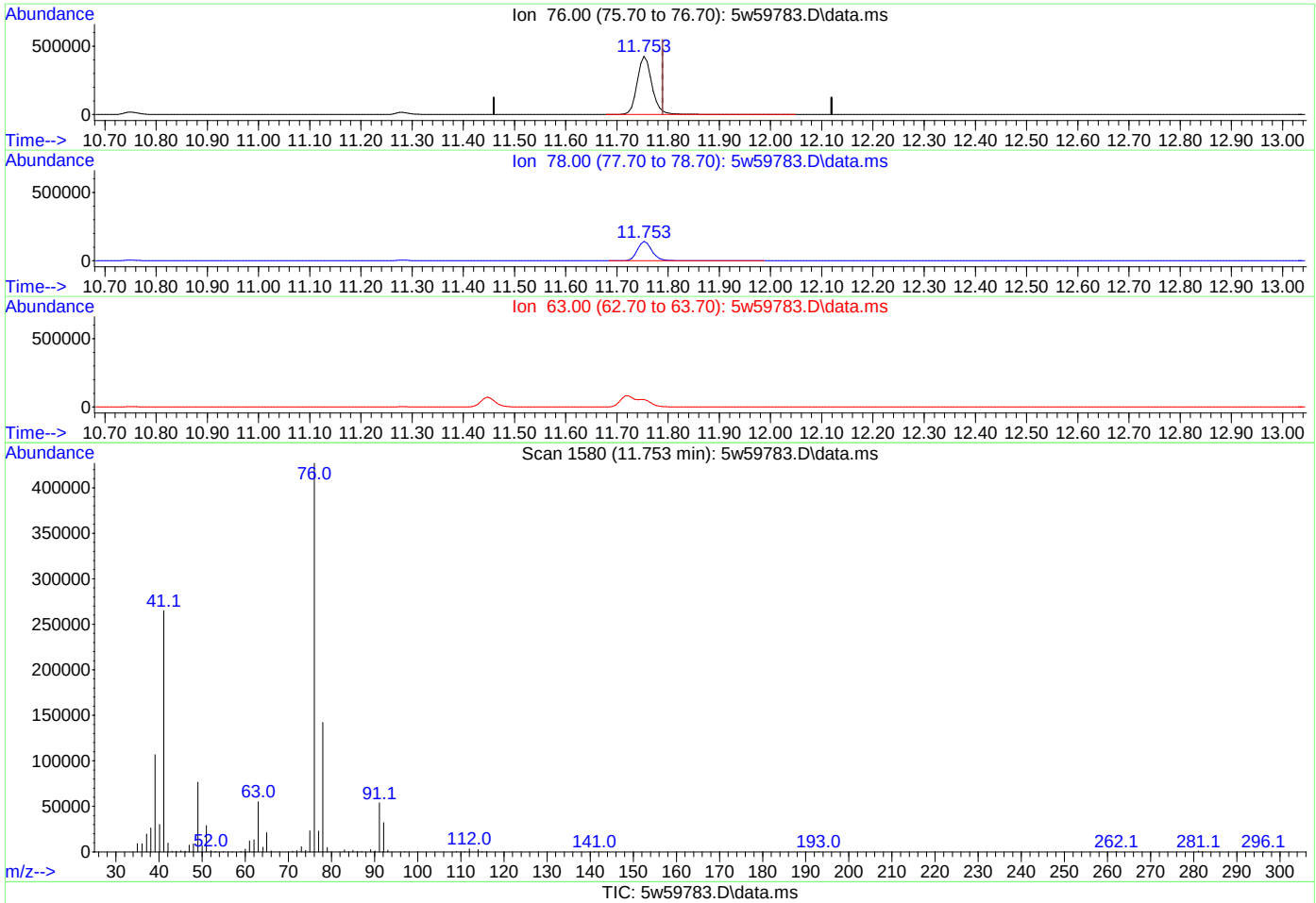
response 169787

Ion	Exp%	Act%
61.00	100	100
43.10	0.00	0.00
88.00	34.00	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (-0.037) 10.74PPBV

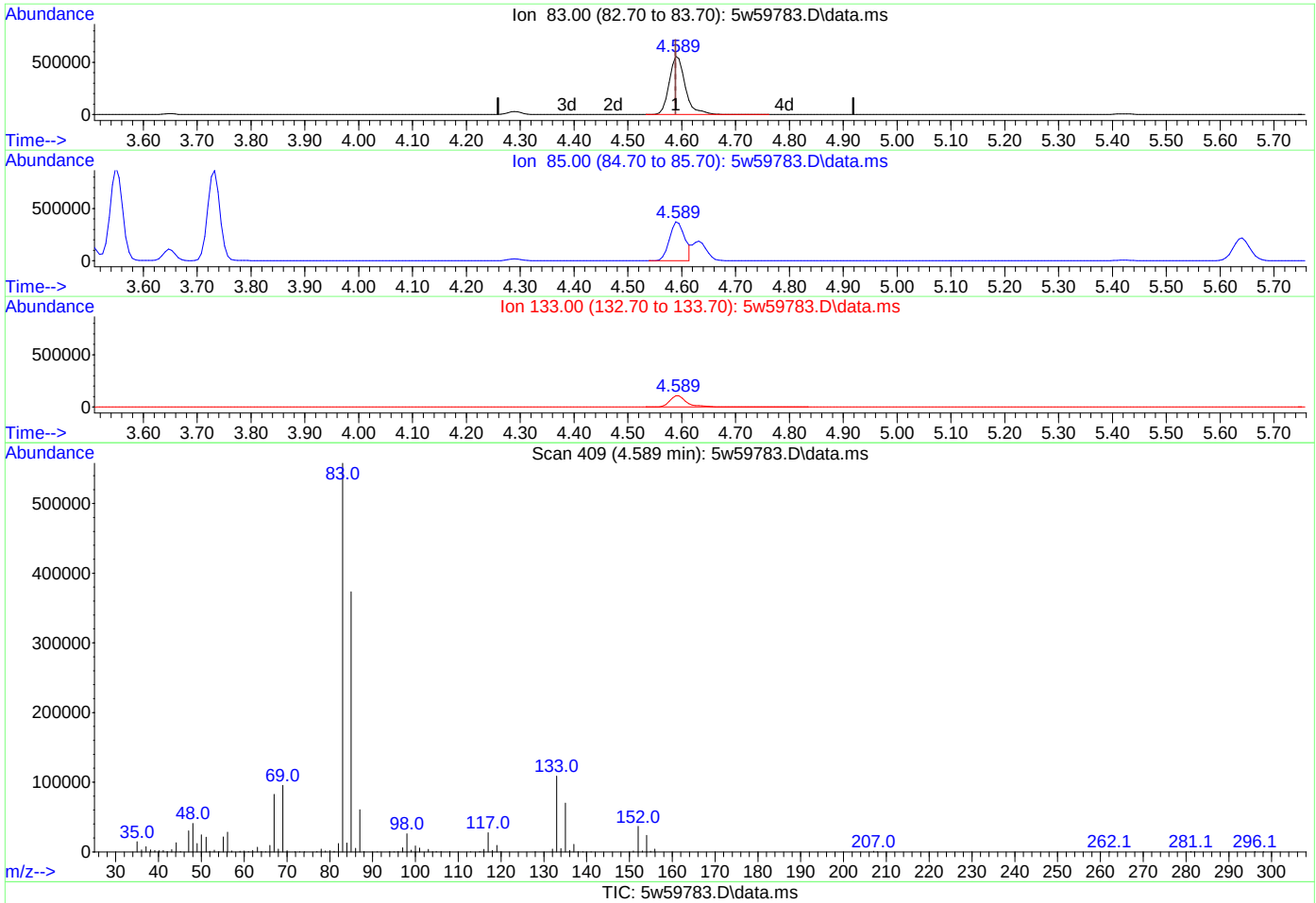
response 865913

Ion	Exp%	Act%
76.00	100	100
78.00	32.00	33.09
63.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (0.000) 9.93PPBV m

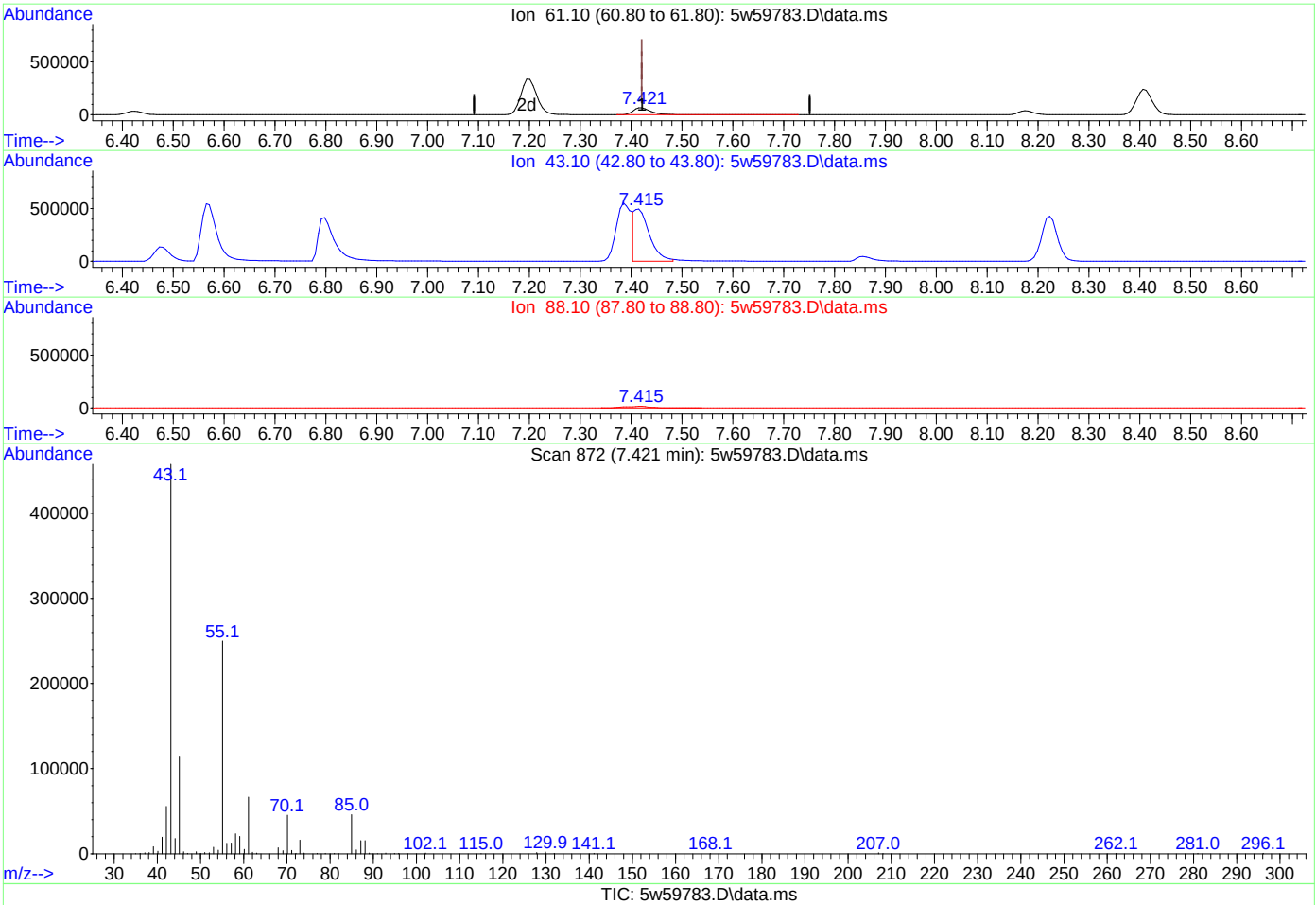
response 1157483

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.96
133.00	20.70	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (0.000) 10.80PPBV m

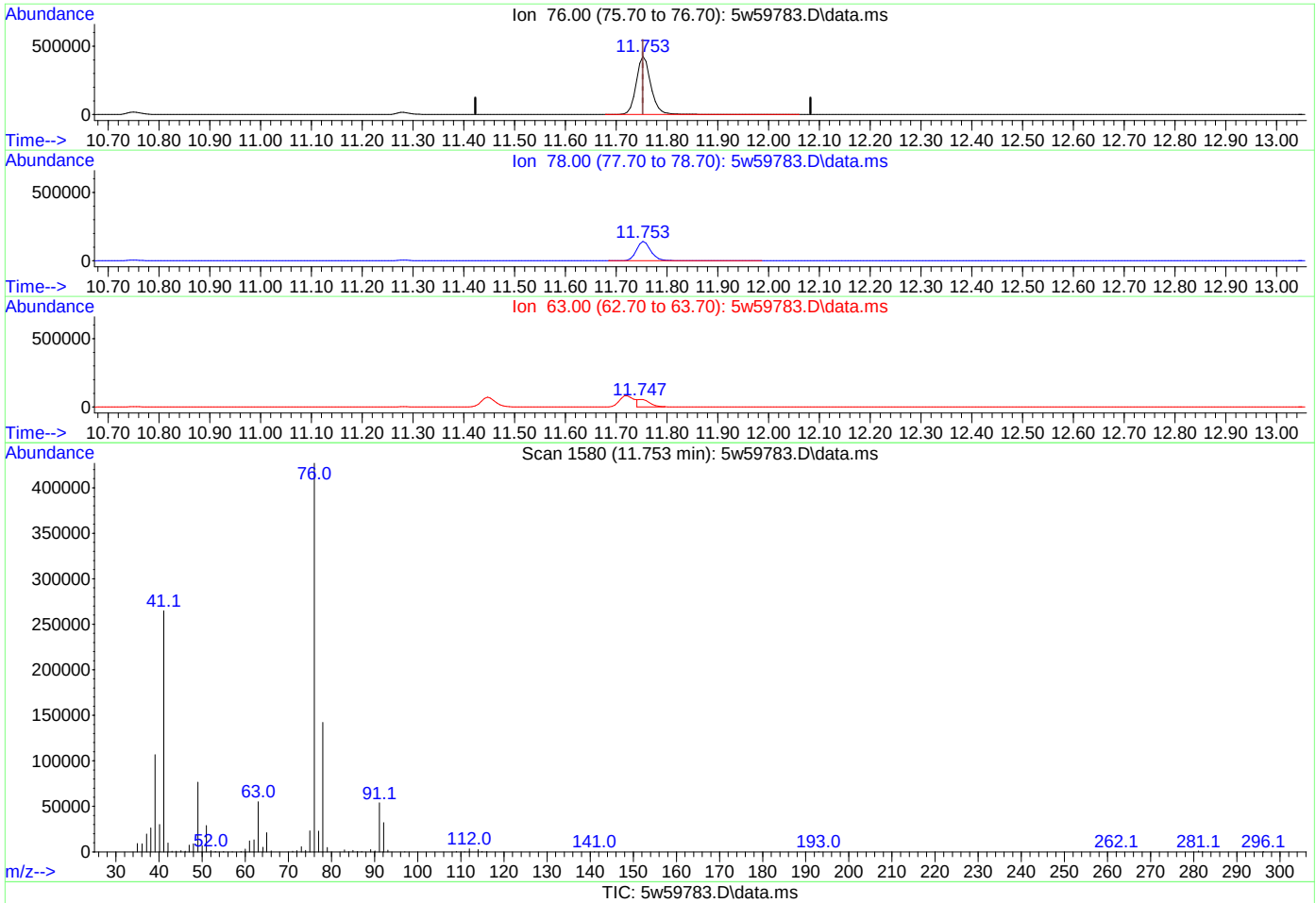
response 169787

Ion	Exp%	Act%
61.10	100	100
43.10	611.30	590.54
88.10	34.50	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (0.000) 10.80PPBV m

response 866163

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.08
63.00	10.30	10.05
0.00	0.00	0.00

5W59784.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	450013	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	1932450	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1113631	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	450746	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1356787	9.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	450963	7.75	PPBV	100
3) FREON 152A	3.445	65	629601	18.20	PPBV	98
4) CHLORODIFLUOROMETHANE	3.476	67	306106	19.32	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	1520054	20.38	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	2793626	18.80	PPBV	99
7) PROPYLENE	3.500	41	679227	17.76	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	2117806	15.73	PPBV	99
9) FREON 114	3.733	85	2612576	20.44	PPBV	99
10) CHLOROMETHANE	3.665	52	274402	17.35	PPBV	100
11) VINYL CHLORIDE	3.818	62	907868	18.27	PPBV	99
12) 1,3-BUTADIENE	3.916	54	526623m	15.76	PPBV	
13) n-BUTANE	3.947	43	848889	14.02	PPBV	99
14) BROMOMETHANE	4.106	94	947413	19.40	PPBV	100
15) CHLOROETHANE	4.228	64	401918	17.76	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1915216	16.60	PPBV	100
17) ACETONITRILE	4.479	41	467576	13.59	PPBV	99
18) ACROLEIN	4.571	56	282182	15.70	PPBV	95
19) FREON 123	4.595	83	2144663m	18.75	PPBV	
20) FREON 123A	4.632	117	1303591	18.34	PPBV	97
21) TRICHLOROFLUOROMETHANE	4.797	101	2321202	14.25	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	1635668	14.11	PPBV	99
23) ACETONE	4.669	58	334468	16.18	PPBV	99
24) PENTANE	5.072	42	880198	14.37	PPBV	99
25) IODOMETHANE	5.256	142	3031933	20.19	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	959349	17.96	PPBV	99
27) CARBON DISULFIDE	5.672	76	2608827	18.51	PPBV	99
28) ETHANOL	4.320	45	298730	13.05	PPBV	99
29) BROMOETHENE	4.485	106	957242	20.43	PPBV	100
30) ACRYLONITRILE	5.042	52	624246	17.51	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	836157	17.45	PPBV	98
32) 3-CHLOROPROPENE	5.525	76	430205	19.53	PPBV	96
33) FREON 113	5.641	151	1722837	18.38	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	990650	18.16	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.372	59	1868378	16.33	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	2584253	19.14	PPBV	99
37) TETRAHYDROFURAN	7.850	72	399188	22.19	PPBV	98
38) HEXANE	7.385	57	1526495	20.27	PPBV	96
39) VINYL ACETATE	6.571	86	179566	19.94	PPBV #	89
40) 1,1-DICHLOROETHANE	6.424	63	1823762	18.32	PPBV	100
41) METHYL ETHYL KETONE	6.791	72	430294	22.94	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	1068157	19.00	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	472029	23.11	PPBV	94
44) ETHYL ACETATE	7.415	61	340212m	22.04	PPBV	
45) METHYL ACRYLATE	7.409	55	1885856	21.07	PPBV	99
46) CHLOROFORM	7.483	83	2134176	18.57	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	1747860	19.75	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.413	97	2289683	18.23	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	2555242	18.43	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	1561332	19.15	PPBV		100
52)	BENZENE	8.853	78	2903342	22.68	PPBV		100
53)	CYCLOHEXANE	9.110	84	1139585	22.41	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.355	71	573637	22.39	PPBV		100
55)	TRICHLOROETHYLENE	9.893	95	1474907	21.65	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	1173566	21.61	PPBV		100
57)	DIBROMOMETHANE	9.636	174	1578012	21.13	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	2306359	23.37	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	2548286	21.01	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	4564310	20.94	PPBV		99
61)	1,4-DIOXANE	9.893	88	653321	24.77	PPBV	#	20
62)	HEPTANE	10.187	43	1555190	19.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	1000168	25.22	PPBV		99
64)	METHYL ISOBUTYL KETONE	10.786	58	969468	23.79	PPBV		97
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1985103	23.56	PPBV		97
66)	TOLUENE	11.722	92	2187710	23.93	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	1738240m	22.65	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	1772531	22.91	PPBV		98
69)	1,1,2-TRICHLOROETHANE	11.447	83	1196566	23.91	PPBV		100
71)	2-HEXANONE	12.004	58	1425280	25.09	PPBV		96
72)	ETHYL METHACRYLATE	12.022	69	1817206	25.28	PPBV		97
73)	TETRACHLOROETHYLENE	12.879	164	1702539	20.29	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	2900352	20.55	PPBV		99
75)	1,2-DIBROMOETHANE	12.395	107	2366337	22.95	PPBV		100
76)	OCTANE	12.744	43	2238080	18.84	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	1899714	20.52	PPBV		100
78)	CHLOROBENZENE	13.582	112	3046547	20.02	PPBV		99
79)	ETHYLBENZENE	13.986	91	4800136	22.00	PPBV		99
80)	m,p-XYLENE	14.188	106	3838940	46.33	PPBV		95
81)	o-XYLENE	14.683	106	1866956	24.57	PPBV		98
82)	STYRENE	14.573	104	2939414	25.25	PPBV		99
83)	NONANE	14.934	43	2271246	19.27	PPBV		98
84)	BROMOFORM	14.249	173	3083788	21.19	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	3171683	23.67	PPBV		99
87)	1,2,3-TRICHLOROPROPANE	14.818	75	2166410	19.01	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	5426205	21.38	PPBV		99
89)	BROMOBENZENE	15.375	77	2635582	19.84	PPBV		99
90)	2-CHLOROTOLUENE	15.772	126	1458347	21.55	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	1498983	22.21	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	5359201	23.50	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	4517483	21.37	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	2401651	23.73	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1027177	23.44	PPBV		95
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	4619537	22.68	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	3436542	21.01	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	4433280	23.83	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	3529112	20.84	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	1236753	22.03	PPBV		92
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	4652009	21.34	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	1464768	22.76	PPBV		94
103)	o-DICHLOROBENZENE	16.977	146	3353483	20.30	PPBV		99
104)	n-BUTYLBENZENE	17.265	134	1447206	24.56	PPBV		93
105)	HEXACHLOROETHANE	17.608	117	2435886	22.06	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	3259497	18.79	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	3337105	28.94	PPBV		100
108)	NAPHTHALENE	18.666	128	7329968	26.85	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	5936529	16.52	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

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

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

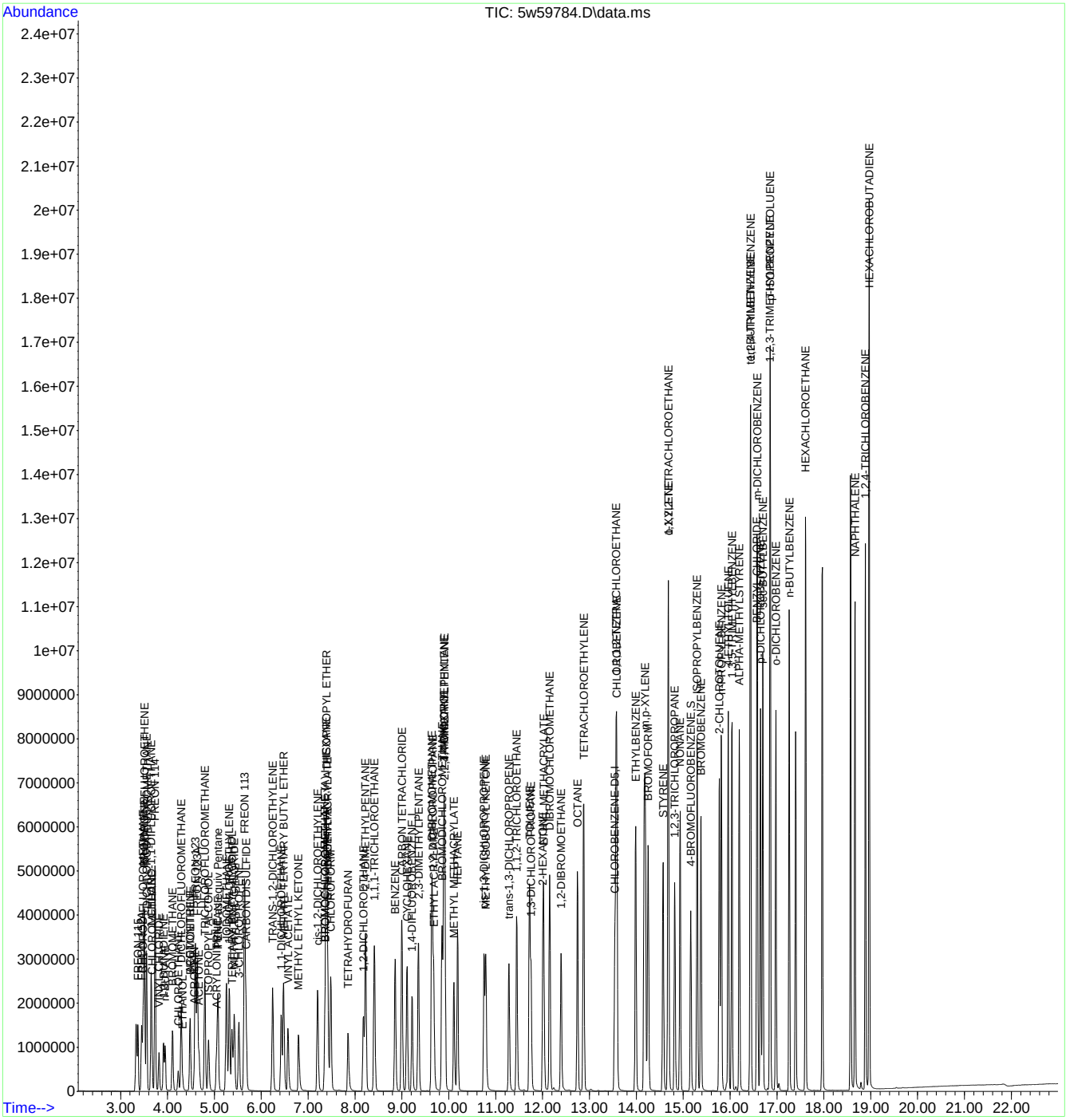
7.2.7

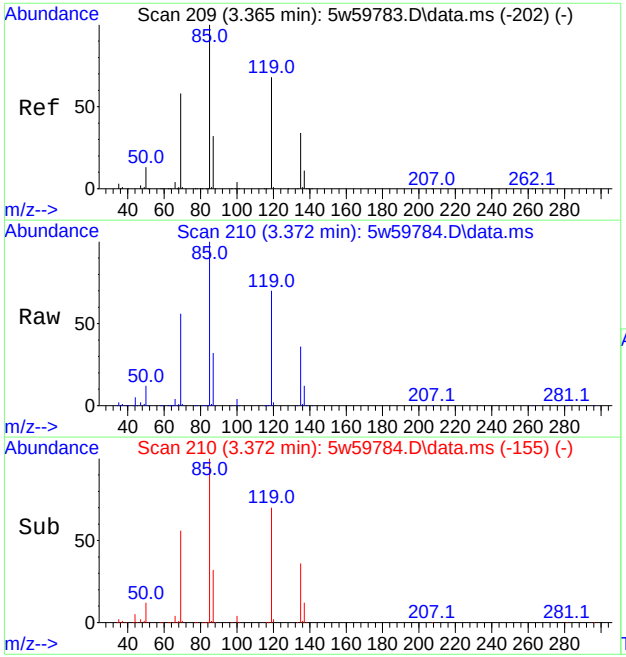
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

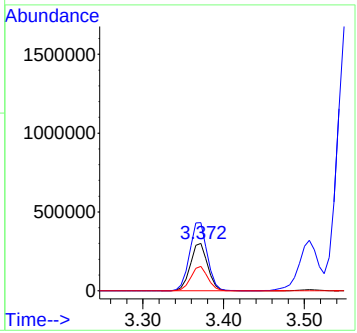


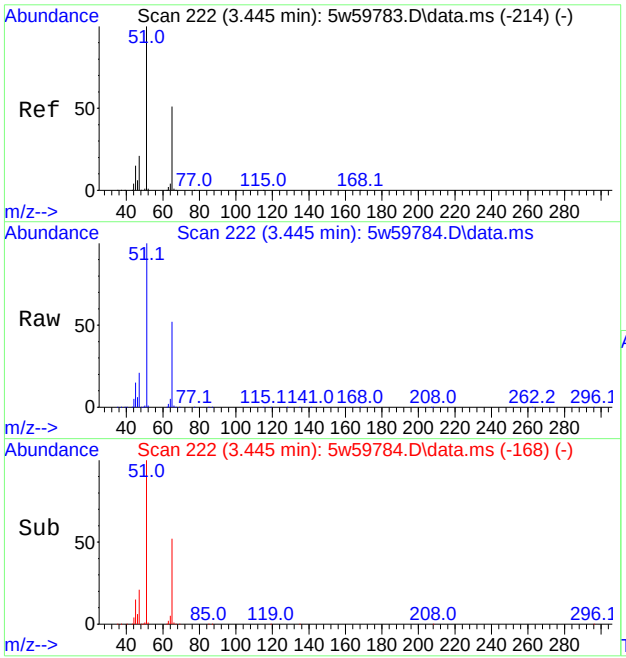


#2
FREON 115
Concen: 7.75 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:119 Resp: 450963

Ion	Ratio	Lower	Upper
119	100		
85	146.0	116.2	176.2
135	50.3	20.6	80.6

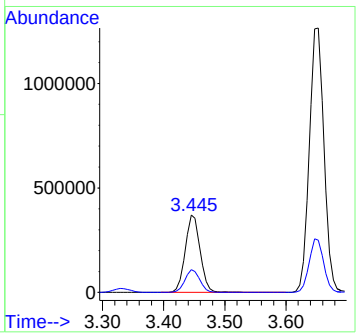


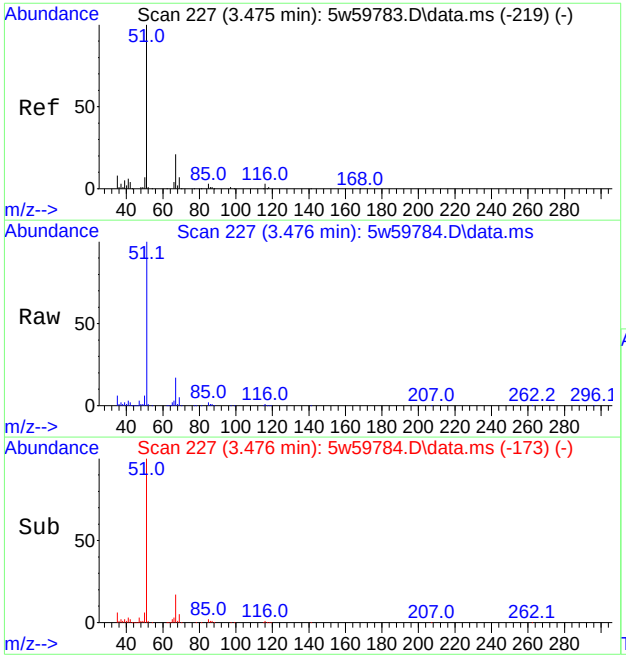


#3
FREON 152A
Concen: 18.20 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 629601

Ion	Ratio	Lower	Upper
65	100		
45	29.1	0.0	60.0

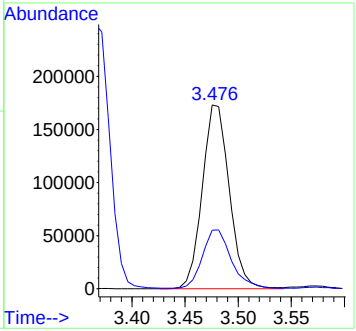


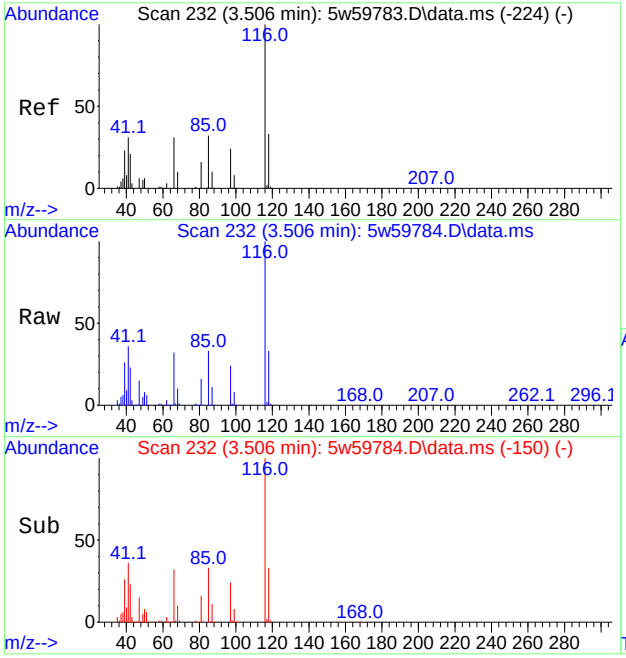


#4
CHLORODIFLUOROMETHANE
Concen: 19.32 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 306106

Ion	Ratio	Lower	Upper
67	100		
69	31.9	1.0	61.0

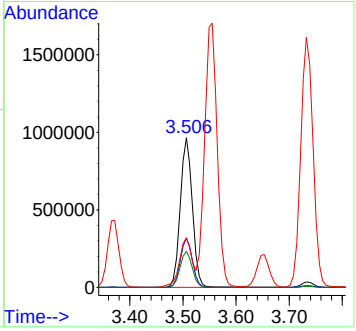


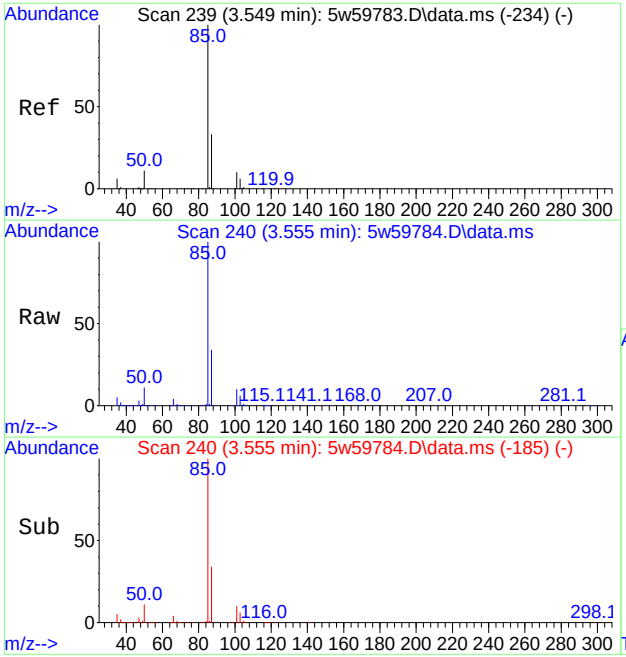


#5
CHLOROTRIFLUOROETHENE
Concen: 20.38 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:116 Resp: 1520054

Ion	Ratio	Lower	Upper
116	100		
118	32.8	22.9	42.5
85	35.4	23.7	44.1
97	24.2	17.0	31.6

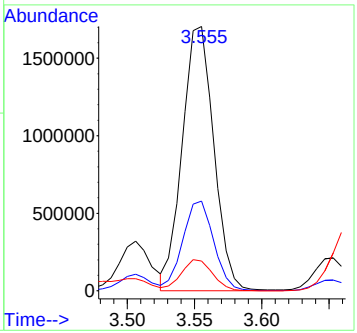


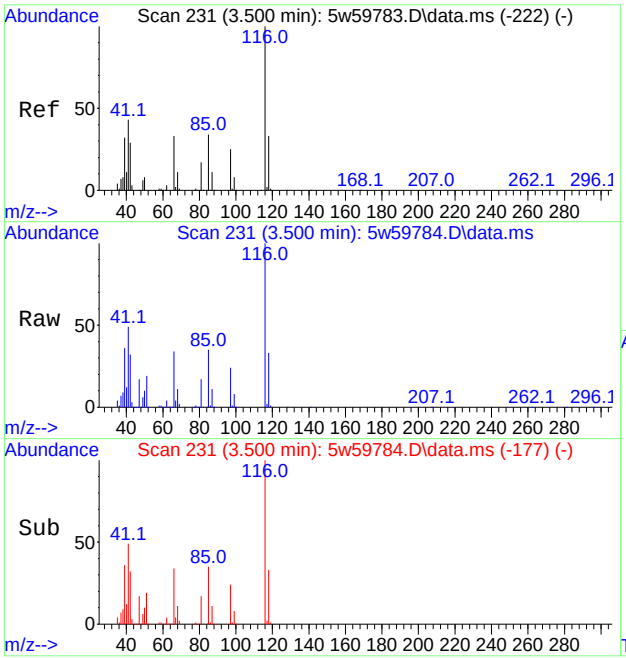


#6
DICHLORODIFLUOROMETHANE
Concen: 18.80 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2793626

Ion	Ratio	Lower	Upper
85	100		
87	33.4	2.5	62.5
50	11.7	0.0	41.7

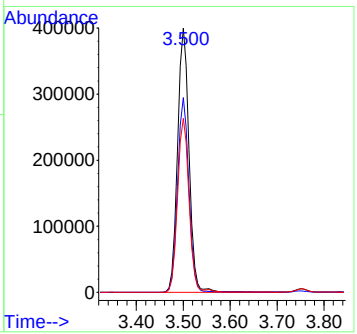


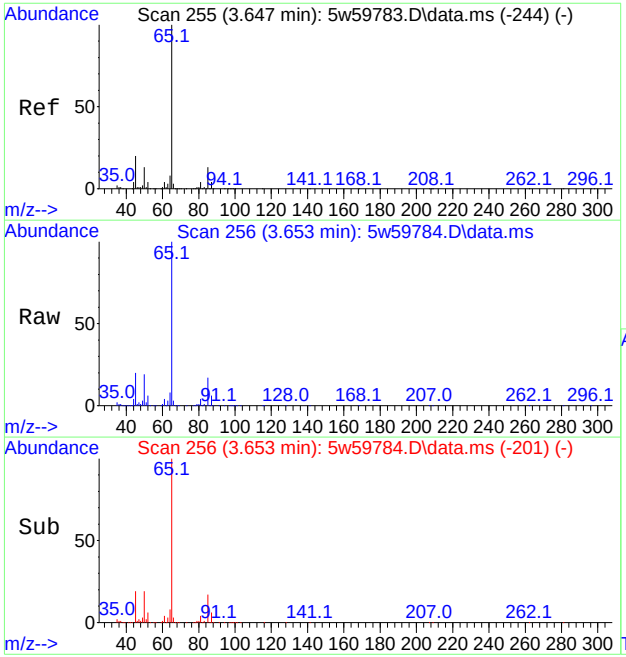


#7
PROPYLENE
Concen: 17.76 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 679227

Ion	Ratio	Lower	Upper
41	100		
39	73.5	45.1	105.1
42	66.1	36.3	96.3

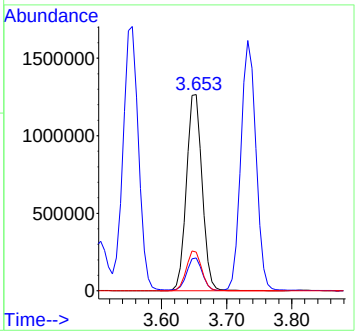


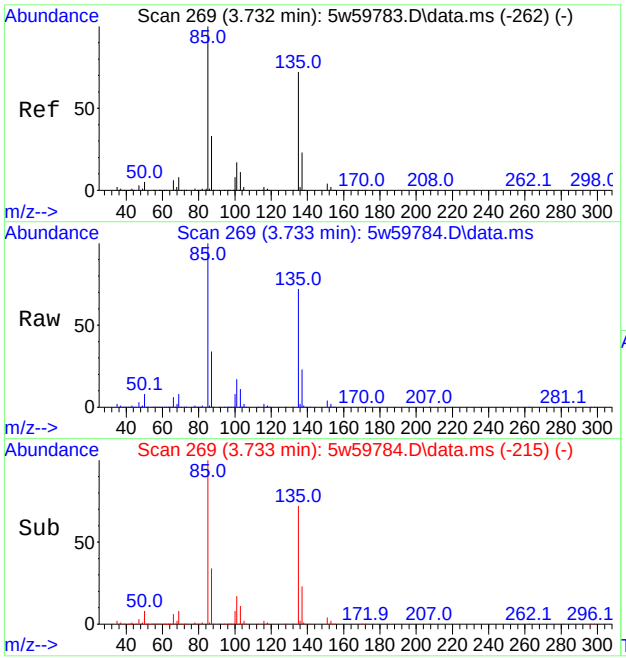


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 15.73 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 2117806

Ion	Ratio	Lower	Upper
65	100		
85	16.6	11.5	21.3
45	20.2	14.0	26.0

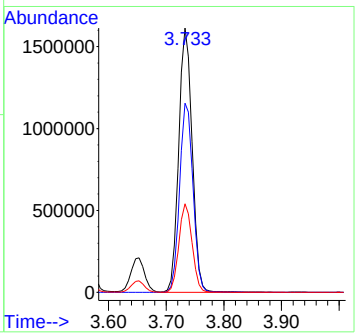


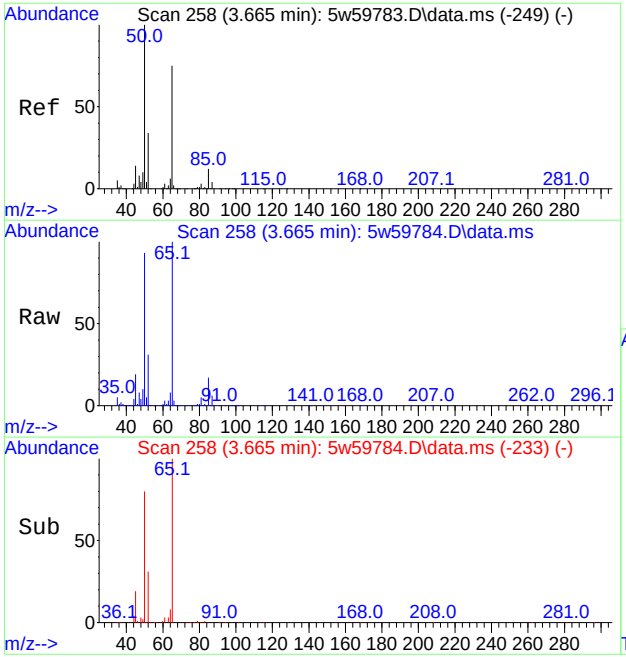


#9
FREON 114
Concen: 20.44 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2612576

Ion	Ratio	Lower	Upper
85	100		
135	71.9	40.5	100.5
87	33.3	3.0	63.0

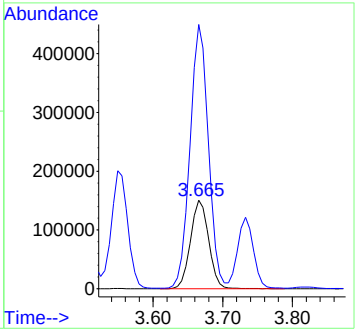


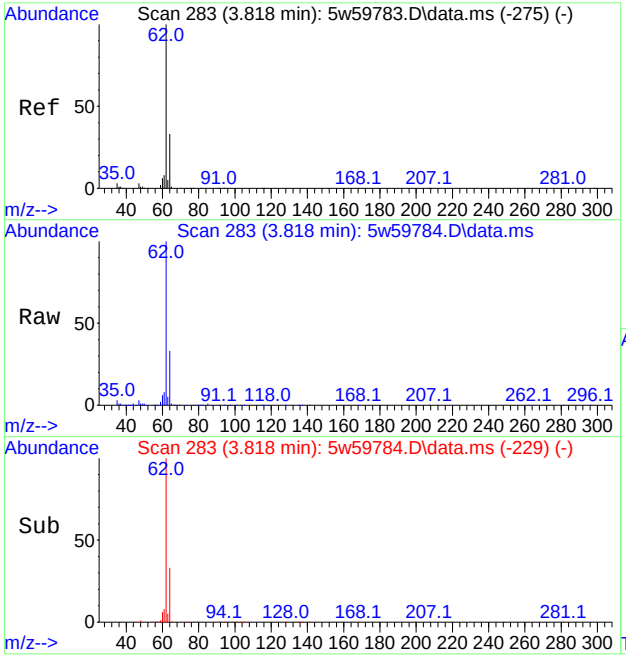


#10
CHLOROMETHANE
Concen: 17.35 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 274402

Ion	Ratio	Lower	Upper
52	100		
50	298.2	267.9	327.9

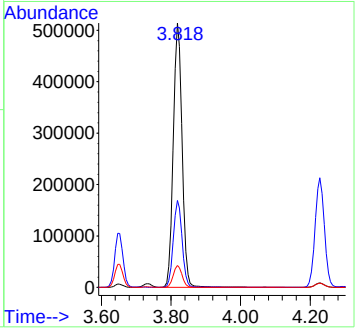


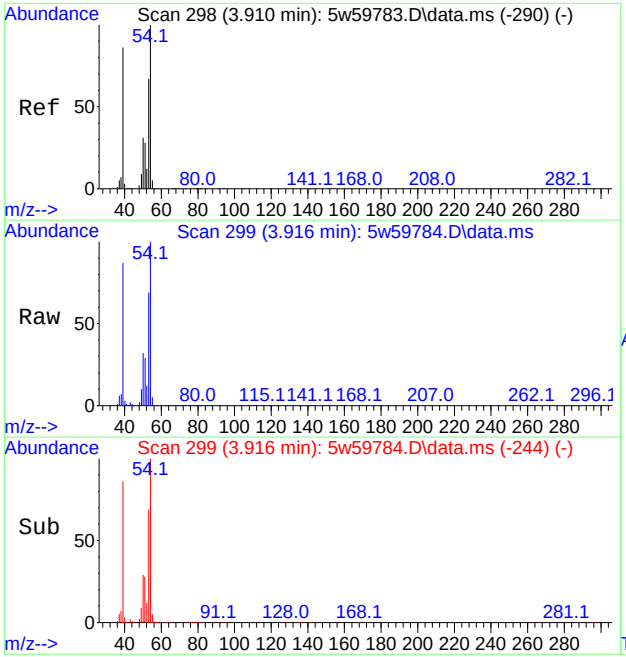


#11
VINYL CHLORIDE
Concen: 18.27 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 907868

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.3	0.0	38.2

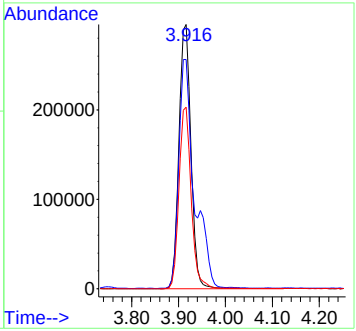


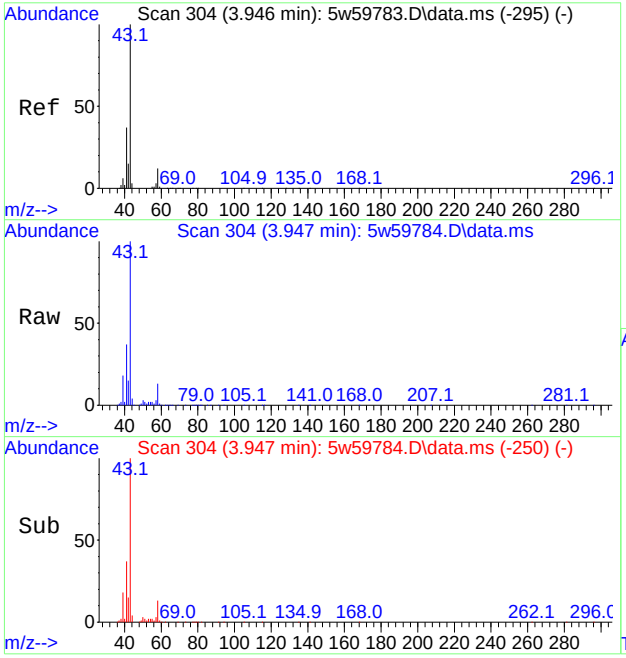


#12
1,3-BUTADIENE
Concen: 15.76 PPBV m
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 54 Resp: 526623

Ion	Ratio	Lower	Upper
54	100		
39	93.3	82.0	142.0
53	70.7	40.2	100.2

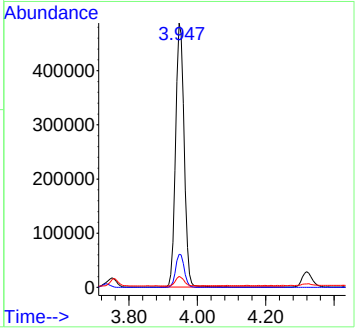


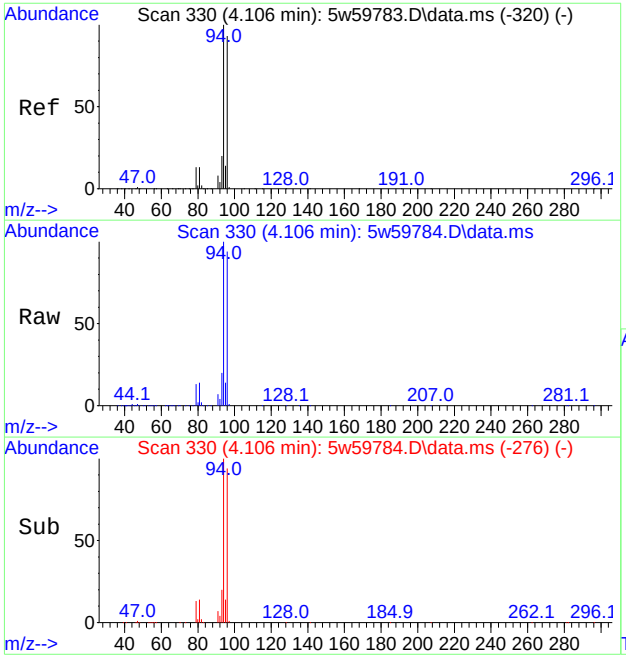


#13
n-BUTANE
Concen: 14.02 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 848889

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	3.5	0.0	34.9

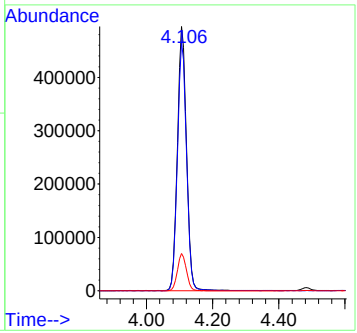


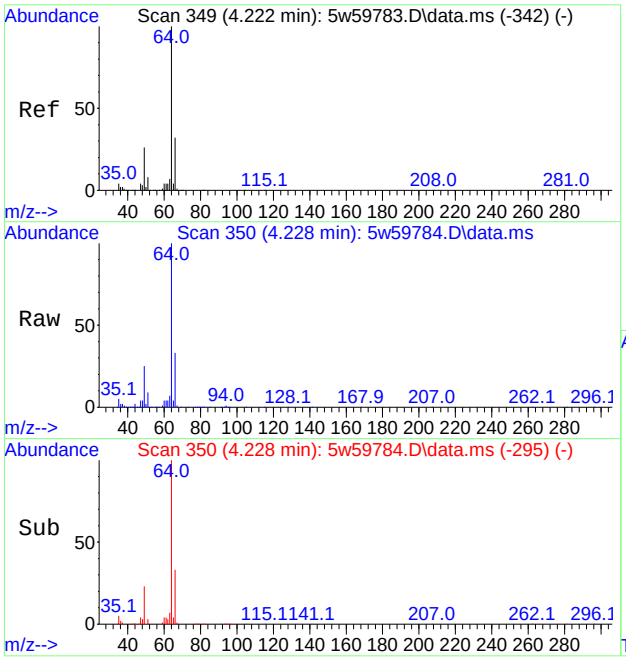


#14
BROMOMETHANE
Concen: 19.40 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 94 Resp: 947413

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

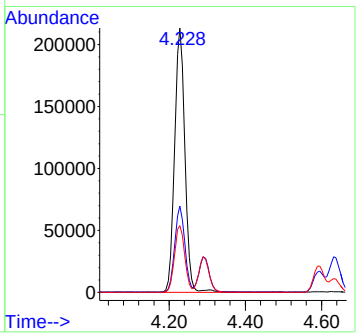


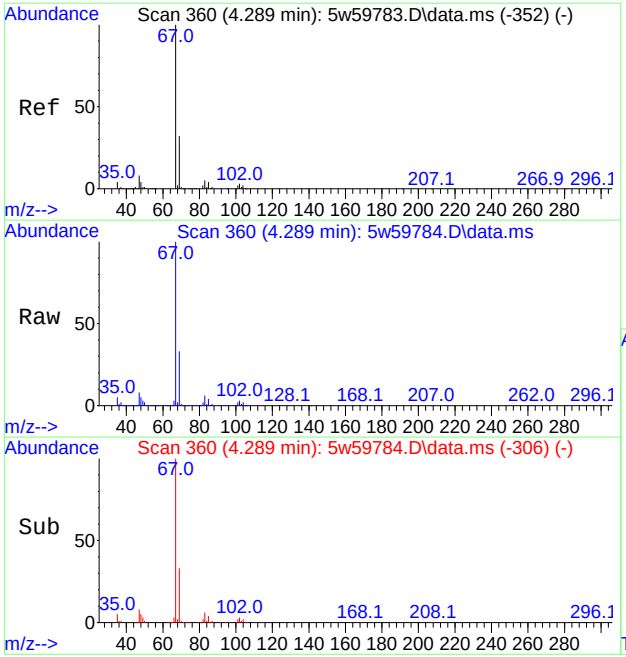


#15
CHLOROETHANE
Concen: 17.76 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 64 Resp: 401918

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

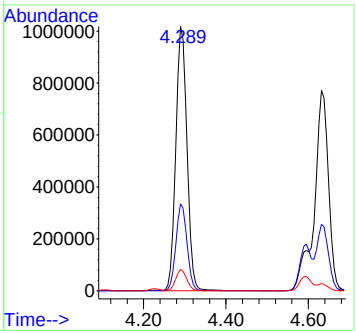


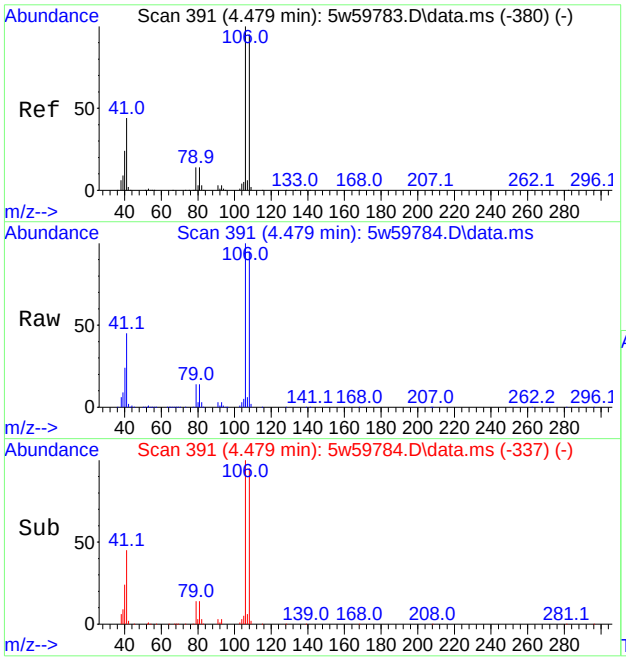


#16
DICHLOROFLUOROMETHANE
Concen: 16.60 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 1915216

Ion	Ratio	Lower	Upper
67	100		
69	32.8	22.7	42.3
47	8.1	5.6	10.4

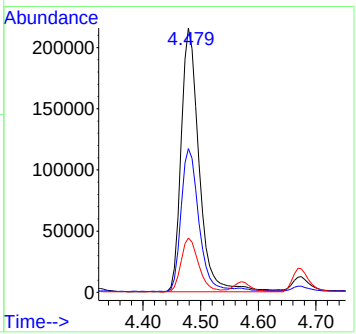


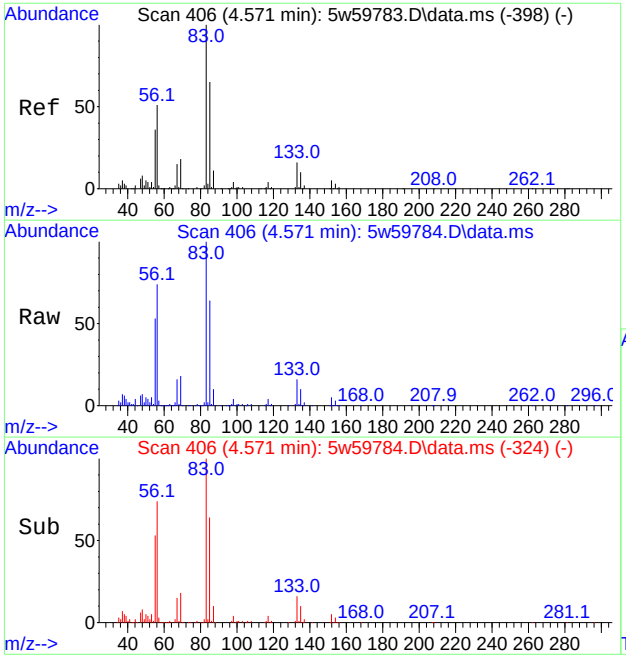


#17
ACETONITRILE
Concen: 13.59 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 467576

Ion	Ratio	Lower	Upper
41	100		
40	54.4	37.9	70.5
39	19.7	13.4	24.8

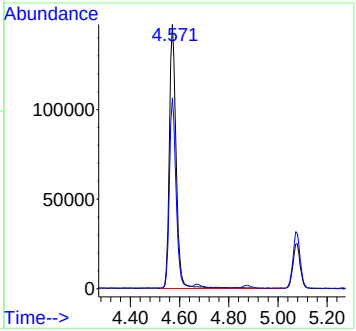


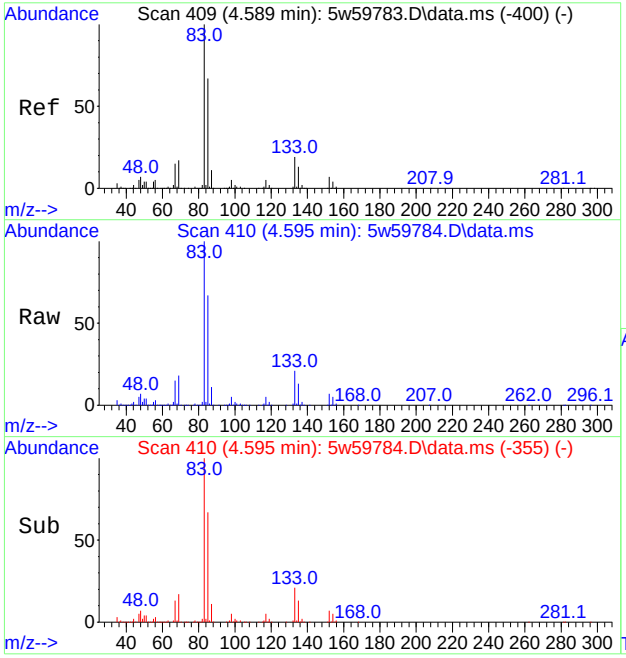


#18
ACROLEIN
Concen: 15.70 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 56 Resp: 282182

Ion	Ratio	Lower	Upper
56	100		
55	70.3	46.6	86.6

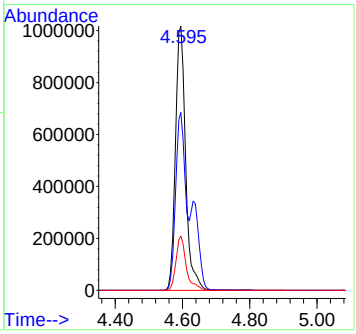


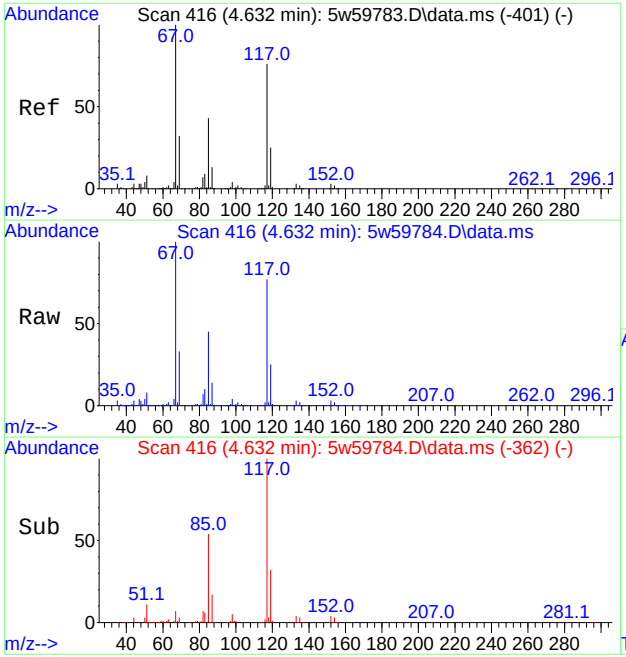


#19
FREON 123
Concen: 18.75 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2144663

Ion	Ratio	Lower	Upper
83	100		
85	66.7	34.0	94.0
133	20.9	0.0	50.7

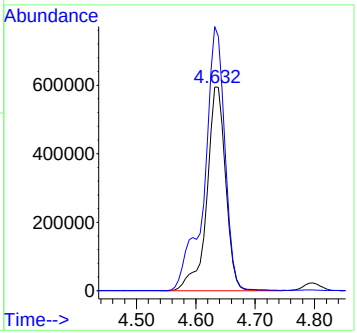


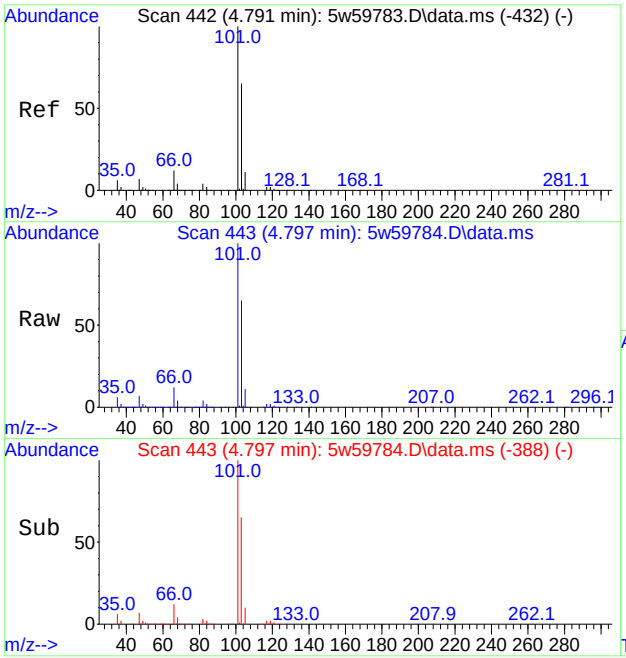


#20
FREON 123A
Concen: 18.34 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 1303591

Ion	Ratio	Lower	Upper
117	100		
67	141.5	114.6	174.6

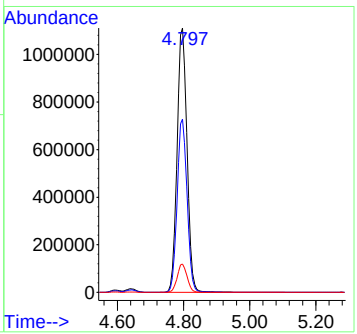


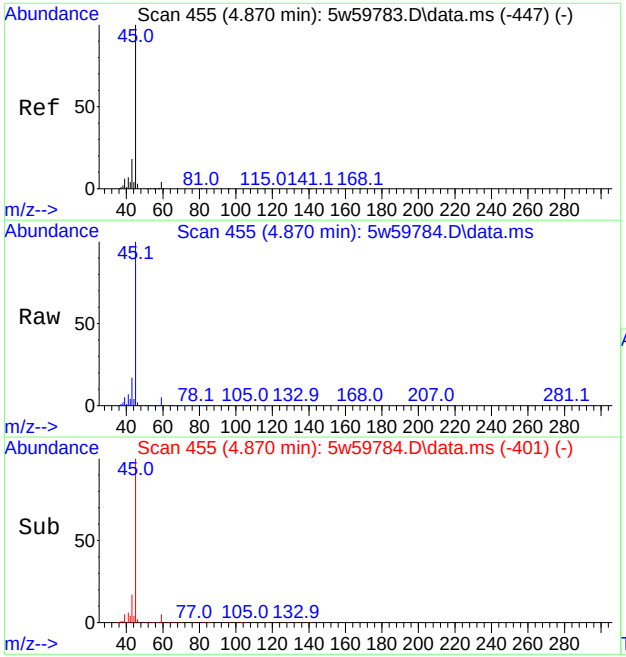


#21
TRICHLOROFLUOROMETHANE
Concen: 14.25 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:101 Resp: 2321202

Ion	Ratio	Lower	Upper
101	100		
103	65.6	35.0	95.0
105	10.8	0.0	40.7

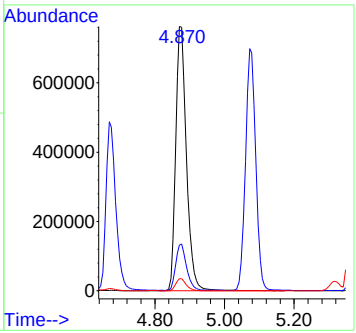


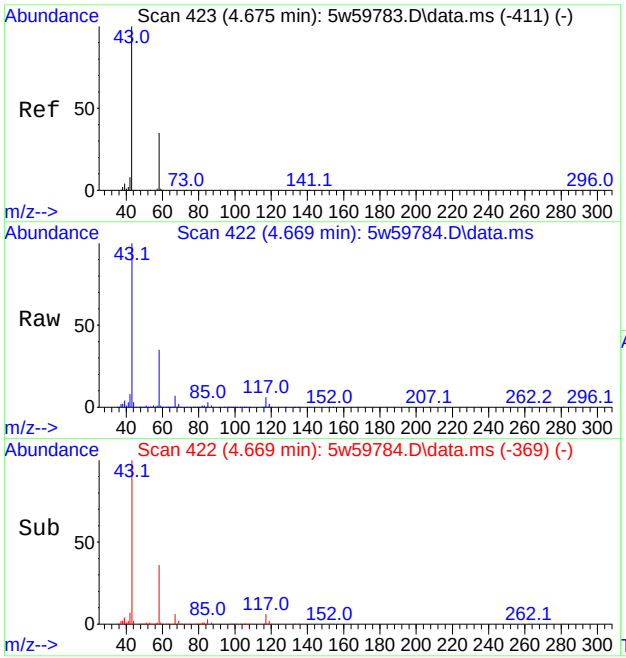


#22
ISOPROPYL ALCOHOL
Concen: 14.11 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 1635668

Ion	Ratio	Lower	Upper
45	100		
43	17.2	0.0	47.8
59	4.6	0.0	34.1

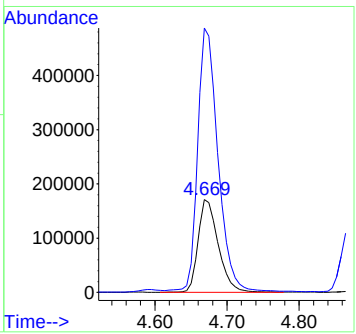


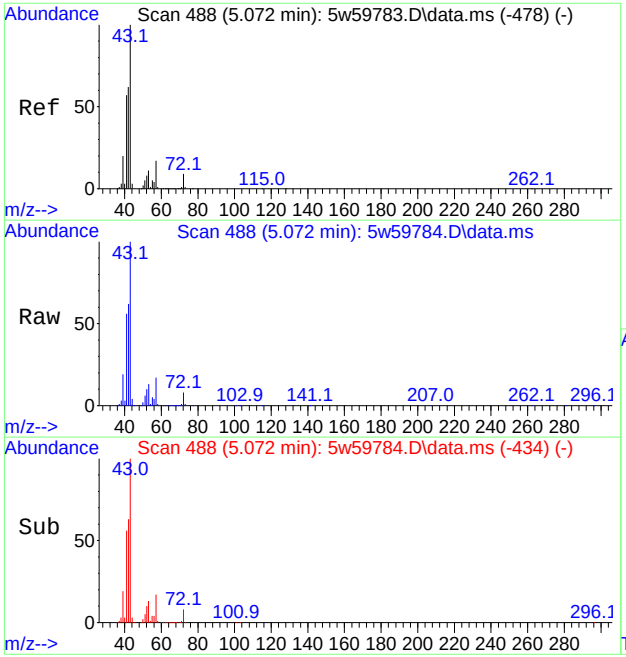


#23
ACETONE
Concen: 16.18 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 334468

Ion	Ratio	Lower	Upper
58	100		
43	284.6	252.3	312.3

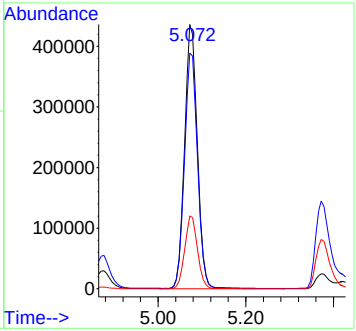


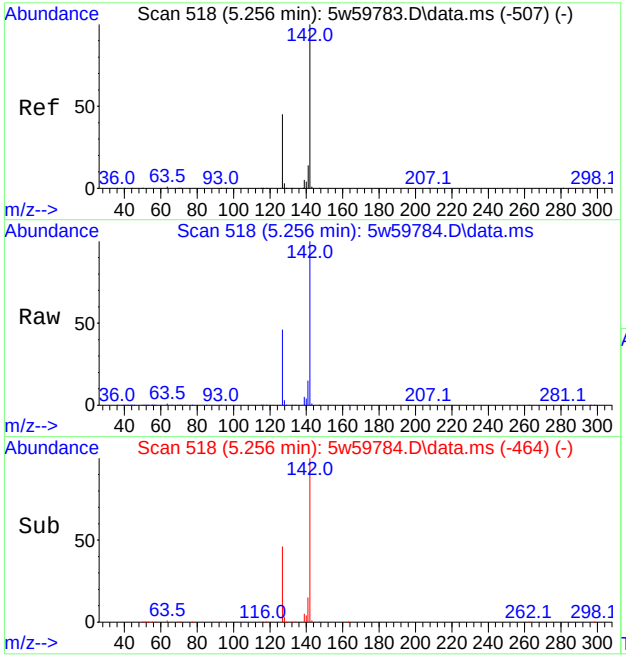


#24
PENTANE
Concen: 14.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 42 Resp: 880198

Ion	Ratio	Lower	Upper
42	100		
41	91.2	62.3	122.3
57	27.8	0.0	57.7

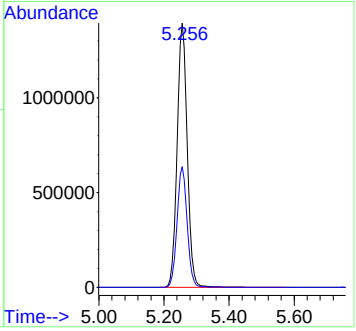


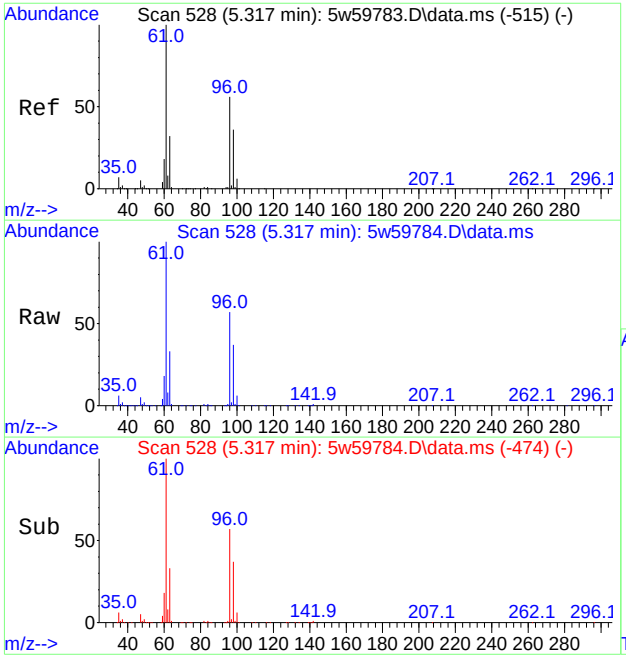


#25
IODOMETHANE
Concen: 20.19 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:142 Resp: 3031933

Ion	Ratio	Lower	Upper
142	100		
127	45.9	16.0	76.0

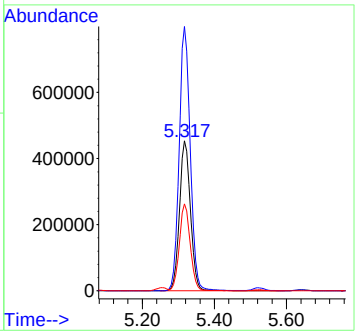


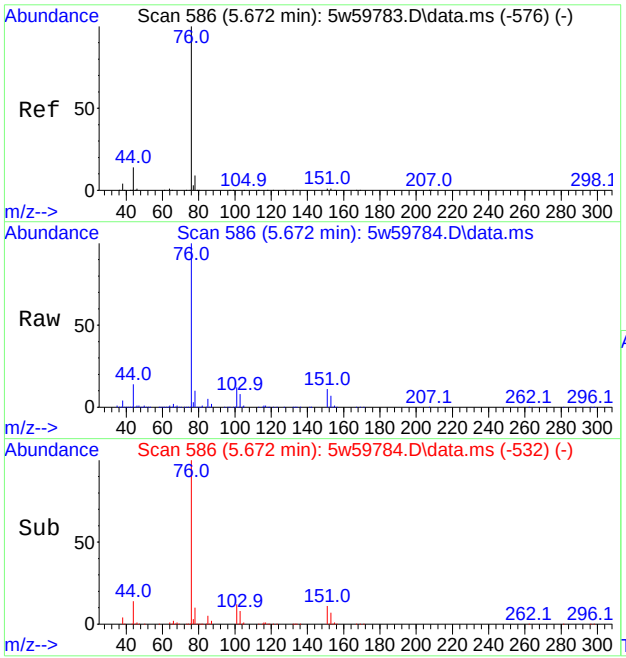


#26
1,1-DICHLOROETHYLENE
Concen: 17.96 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 959349

Ion	Ratio	Lower	Upper
96	100		
61	177.3	148.5	208.5
63	57.4	27.4	87.4

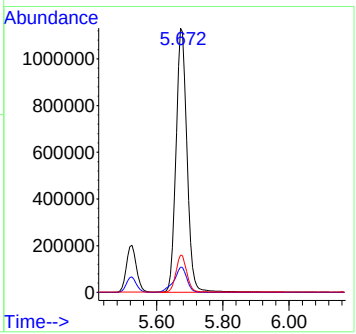


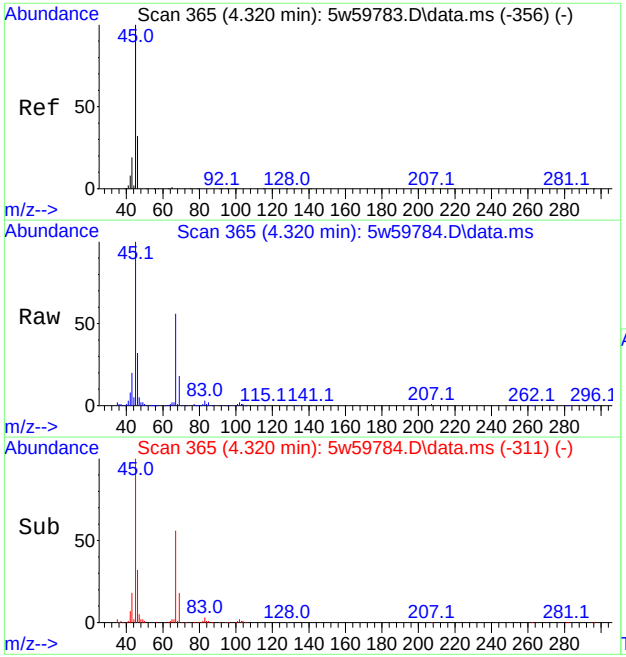


#27
CARBON DISULFIDE
Concen: 18.51 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 2608827

Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	41.5
44	14.0	0.0	44.6

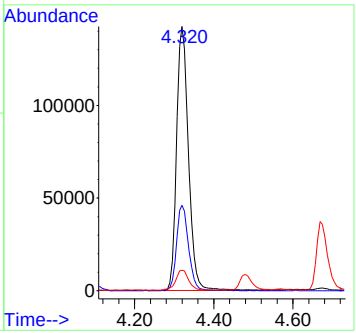


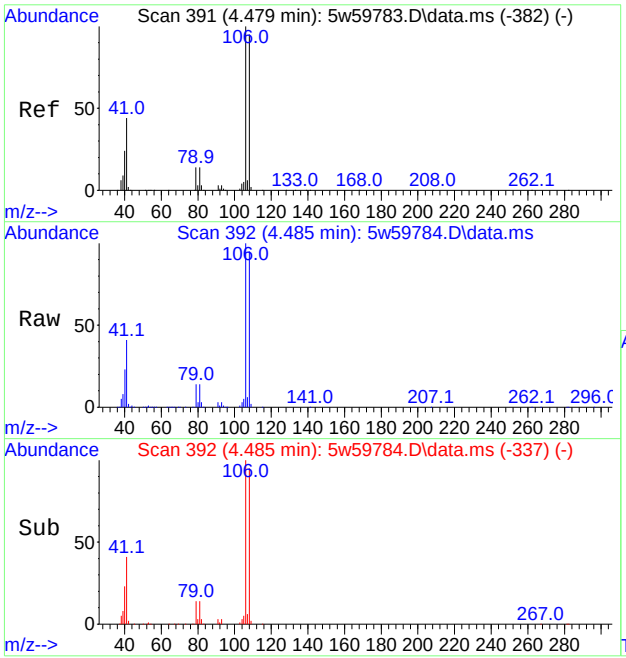


#28
ETHANOL
Concen: 13.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 298730

Ion	Ratio	Lower	Upper
45	100		
46	32.8	2.0	62.0
42	8.4	0.0	38.5

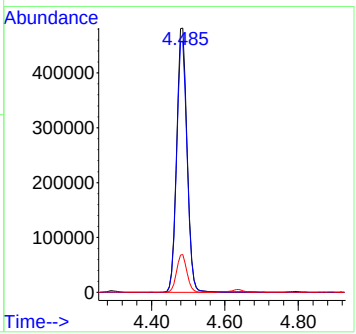


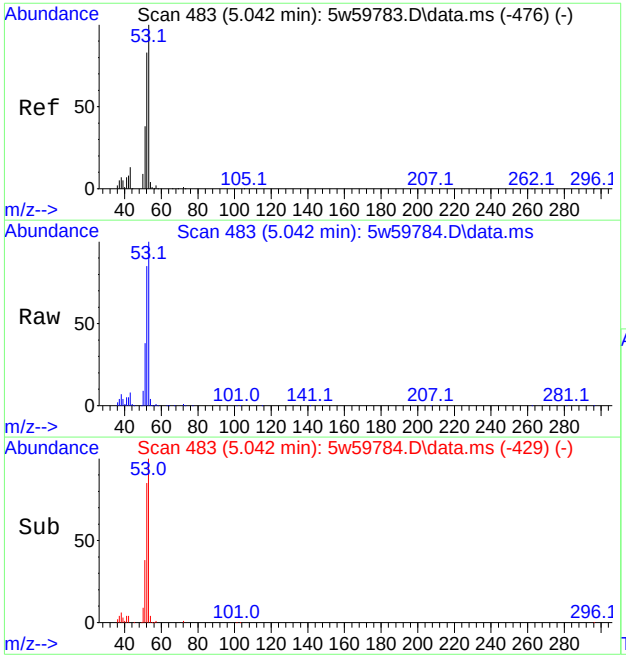


#29
BROMOETHENE
Concen: 20.43 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 957242

Ion	Ratio	Lower	Upper
106	100		
108	95.3	65.6	125.6
81	14.2	0.0	43.9

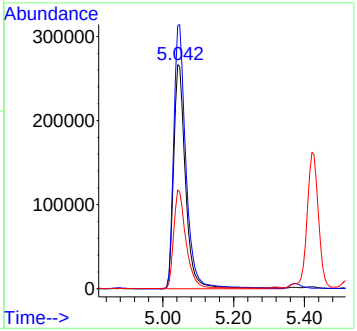


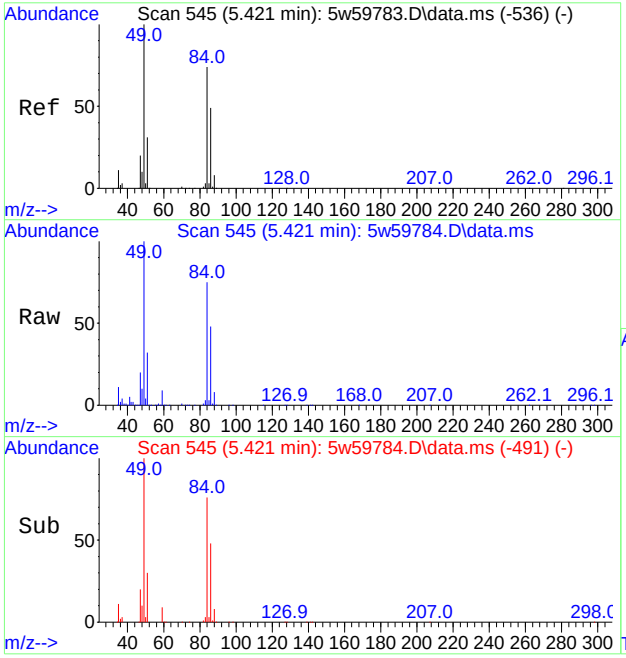


#30
ACRYLONITRILE
Concen: 17.51 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 624246

Ion	Ratio	Lower	Upper
52	100		
53	121.1	85.8	159.4
51	45.8	32.3	60.1

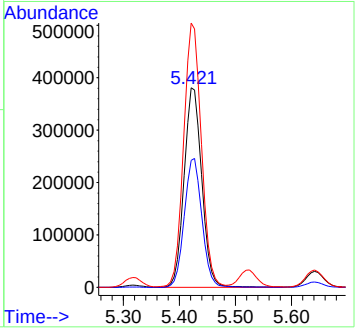


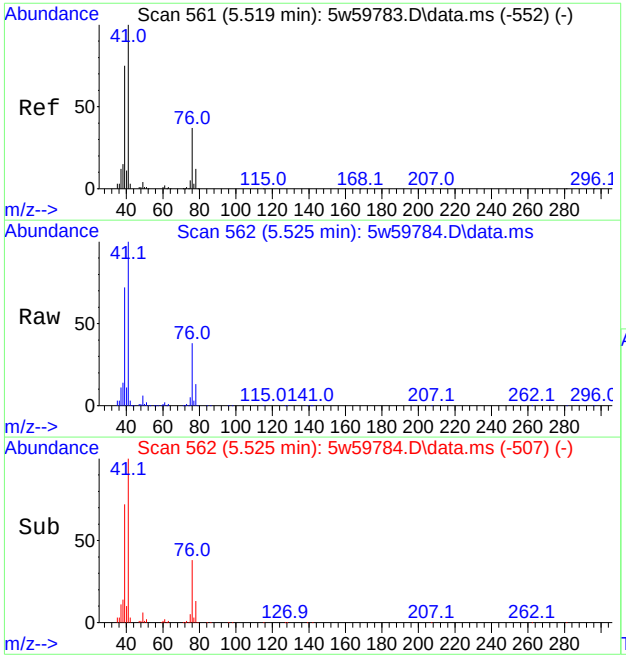


#31
METHYLENE CHLORIDE
Concen: 17.45 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 836157

Ion	Ratio	Lower	Upper
84	100		
86	64.4	35.2	95.2
49	132.4	105.3	165.3

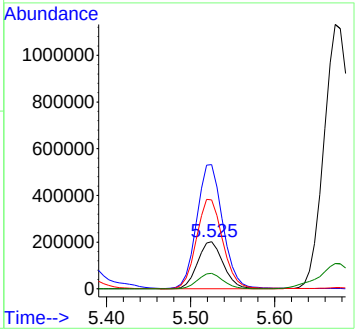


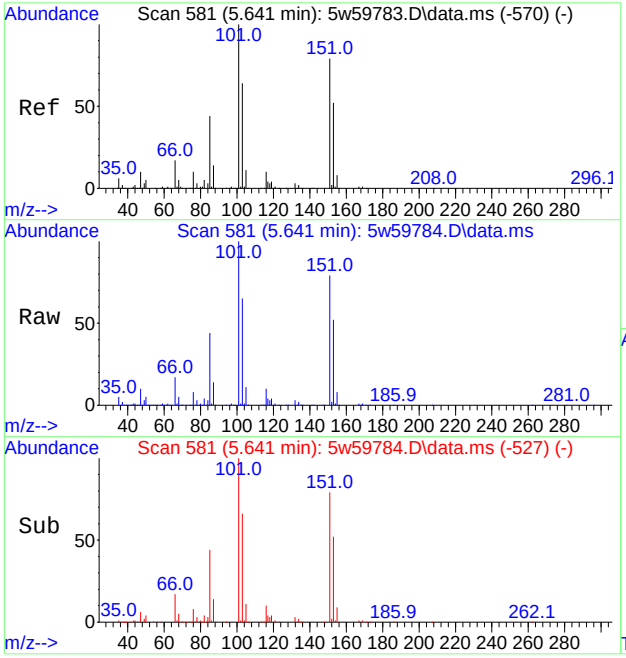


#32
3-CHLOROPROPENE
Concen: 19.53 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 430205

Ion	Ratio	Lower	Upper
76	100		
41	267.1	240.8	300.8
39	193.9	173.6	233.6
78	32.7	2.8	62.8

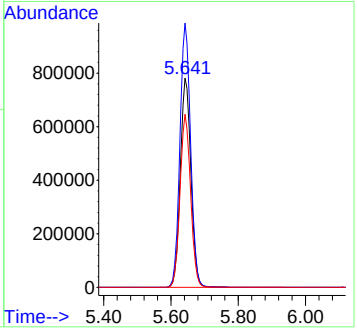


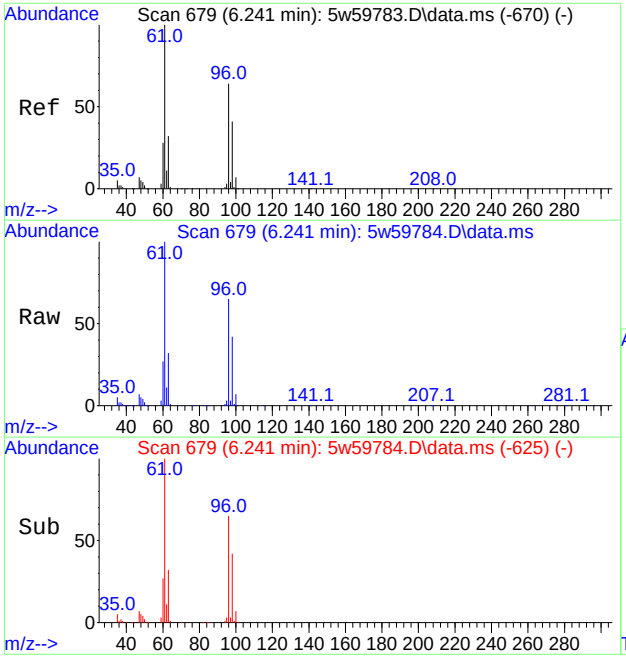


#33
FREON 113
Concen: 18.38 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:151 Resp: 1722837

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	82.1	52.5	112.5

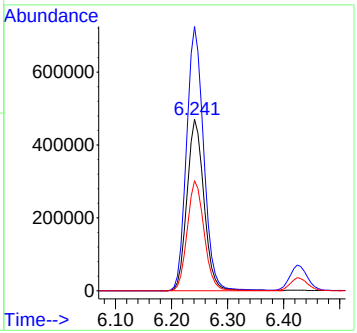


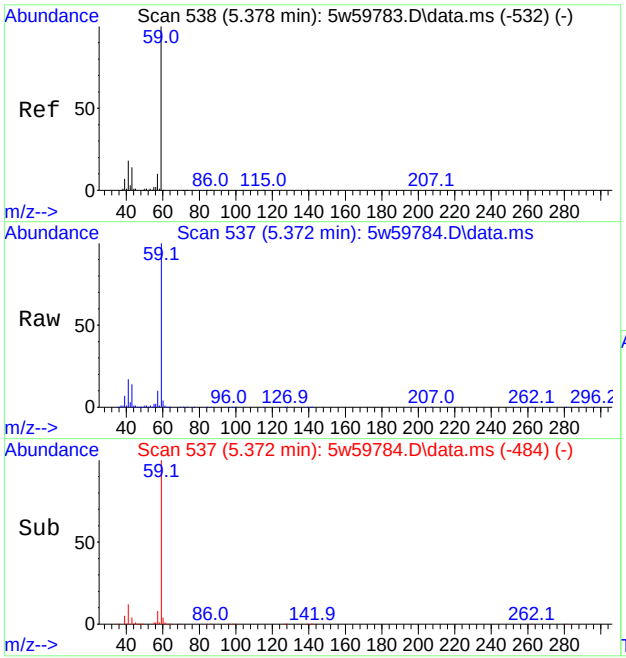


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 18.16 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 990650

Ion	Ratio	Lower	Upper
96	100		
61	155.3	126.4	186.4
98	64.1	34.1	94.1

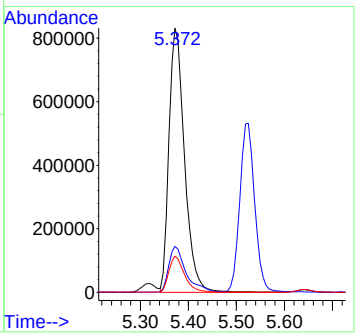


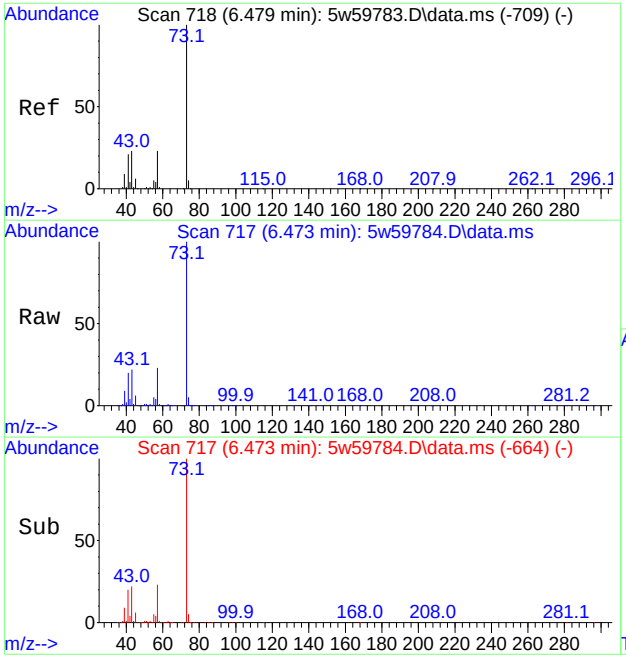


#35
TERTIARY BUTYL ALCOHOL
Concen: 16.33 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 1868378

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.7	0.0	44.1

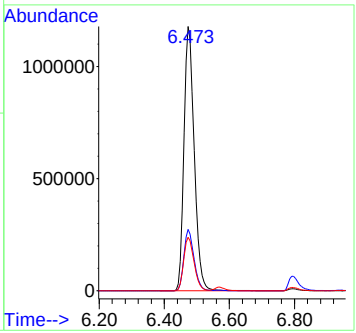


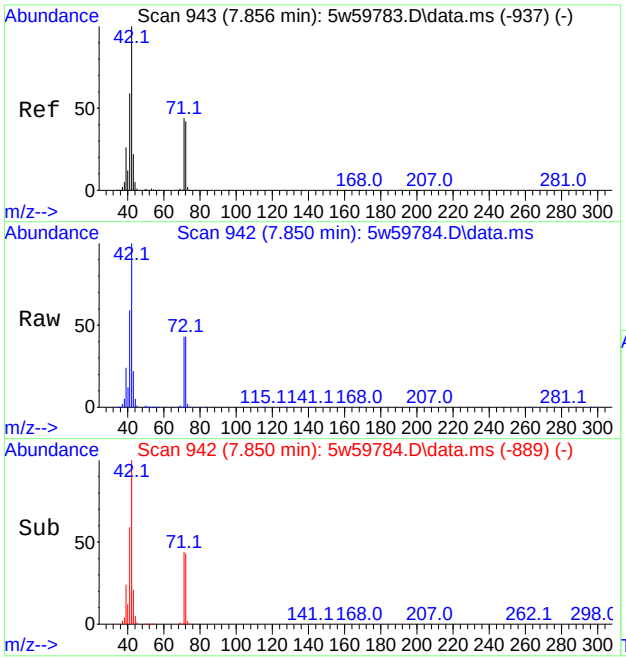


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.14 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 73 Resp: 2584253

Ion	Ratio	Lower	Upper
73	100		
57	22.8	0.0	53.1
41	20.4	0.0	50.6

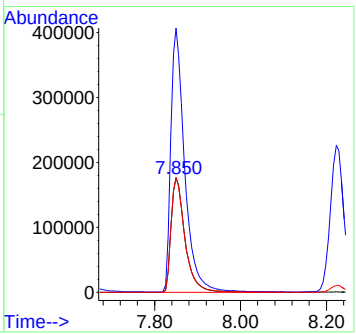


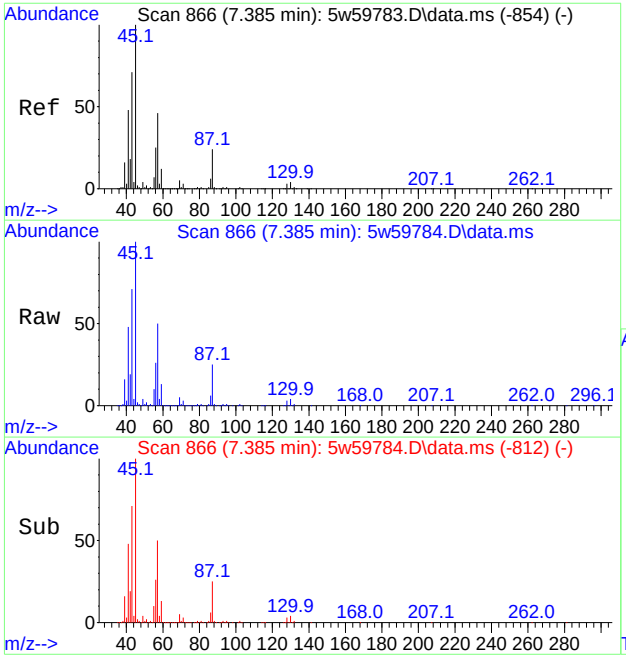


#37
TETRAHYDROFURAN
Concen: 22.19 PPBV
RT: 7.850 min Scan# 942
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 399188

Ion	Ratio	Lower	Upper
72	100		
42	228.7	202.4	262.4
71	100.4	71.1	131.1

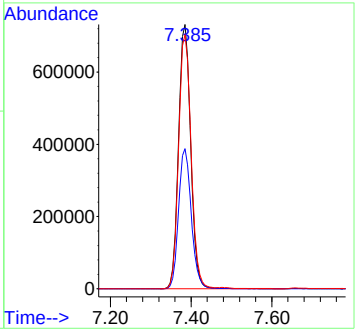


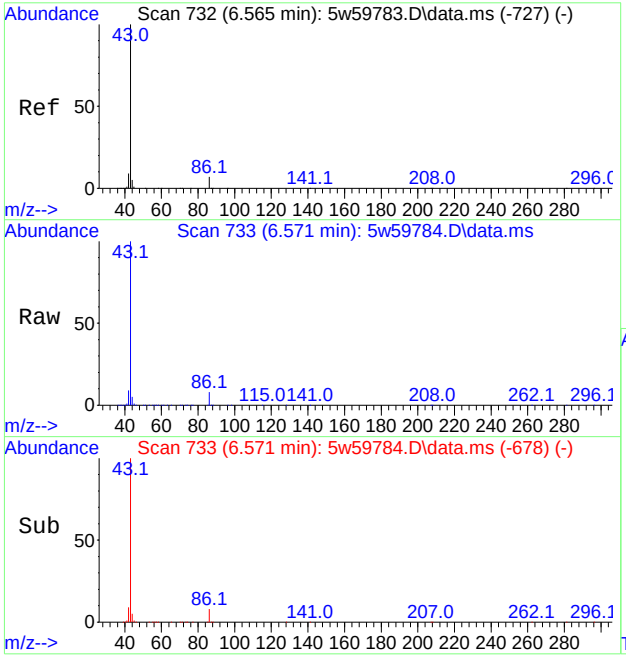


#38
HEXANE
Concen: 20.27 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1526495

Ion	Ratio	Lower	Upper
57	100		
56	55.6	25.9	85.9
41	99.2	74.7	134.7

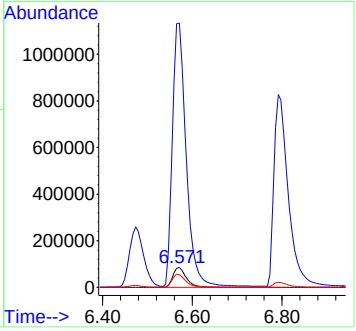


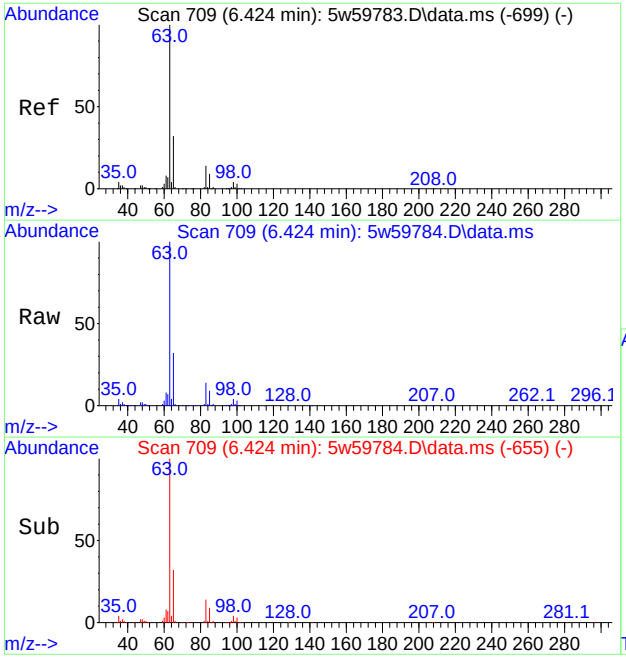


#39
VINYL ACETATE
Concen: 19.94 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 86 Resp: 179566

Ion	Ratio	Lower	Upper
86	100		
43	1346.7	1379.7	1439.7#
44	64.7	36.9	96.9

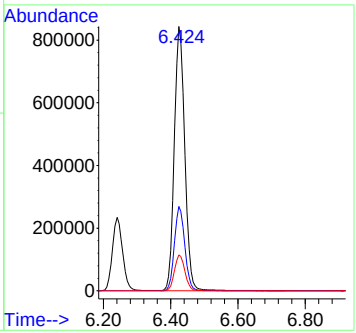


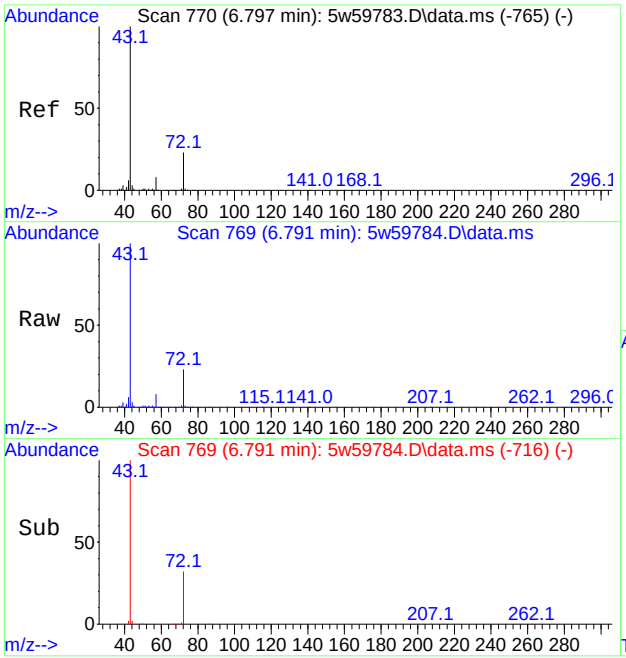


#40
1,1-DICHLOROETHANE
Concen: 18.32 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1823762

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.7	61.7
83	13.6	0.0	43.5

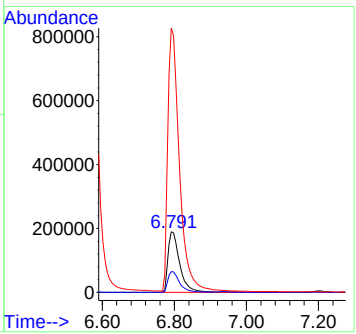


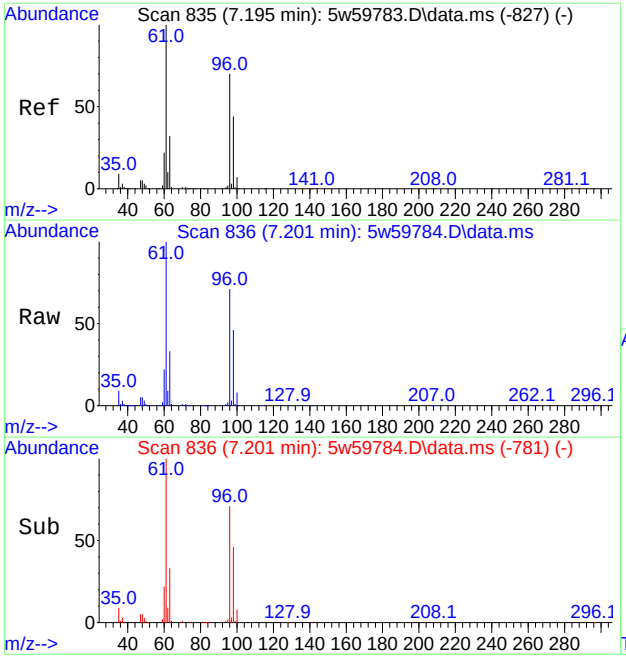


#41
METHYL ETHYL KETONE
Concen: 22.94 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 430294

Ion	Ratio	Lower	Upper
72	100		
57	34.5	4.8	64.8
43	437.4	415.9	475.9

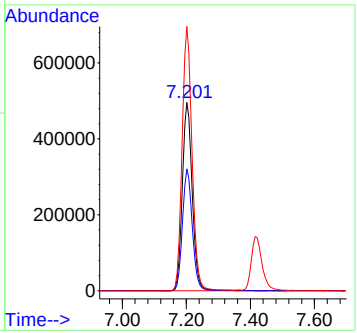


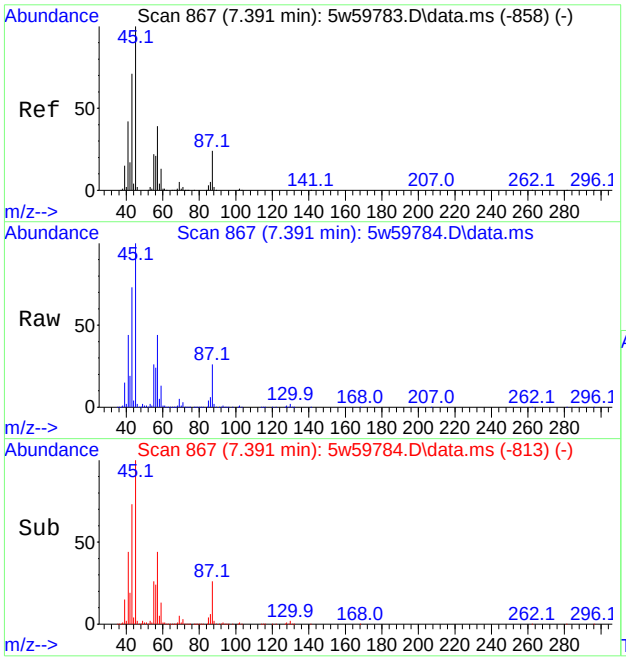


#42
cis-1,2-DICHLOROETHYLENE
Concen: 19.00 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 1068157

Ion	Ratio	Lower	Upper
96	100		
98	64.3	34.0	94.0
61	140.2	111.5	171.5

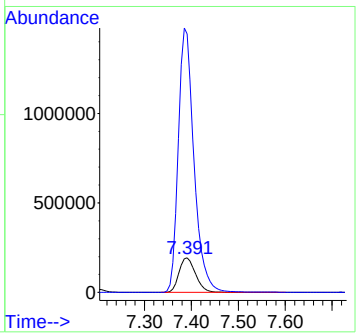


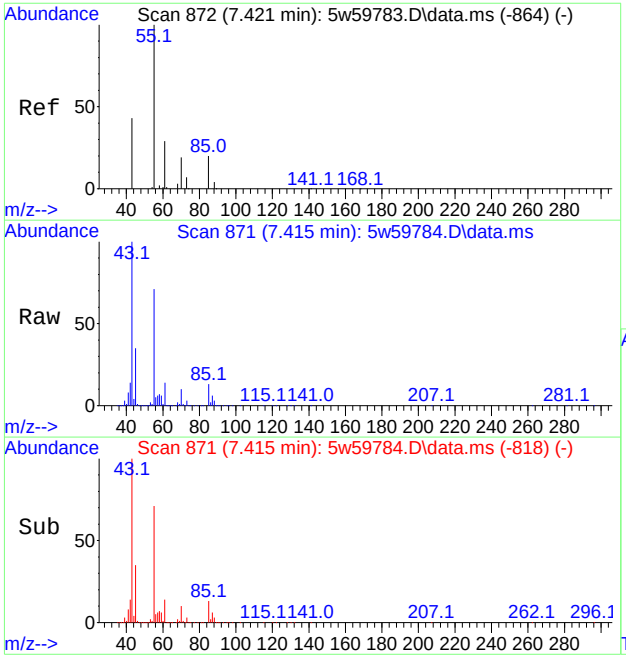


#43
DIISOPROPYL ETHER
Concen: 23.11 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 472029

Ion	Ratio	Lower	Upper
59	100		
45	729.2	720.9	780.9

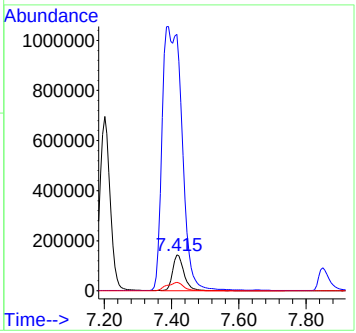


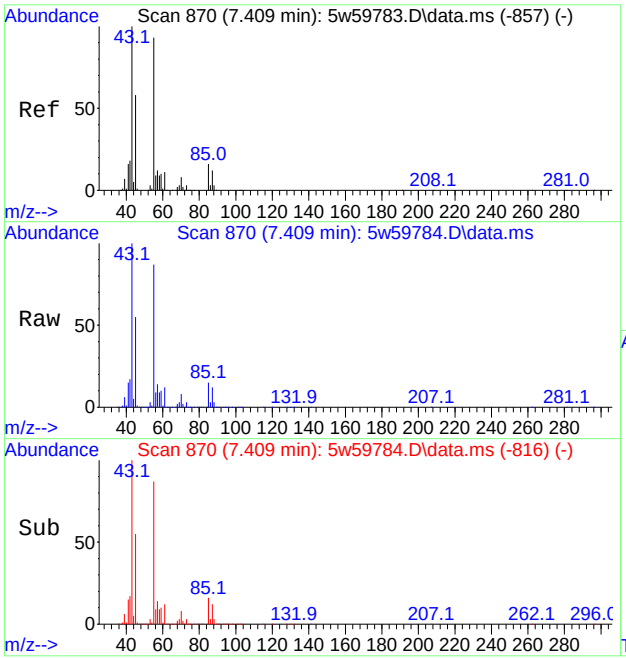


#44
ETHYL ACETATE
Concen: 22.04 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 61 Resp: 340212

Ion	Ratio	Lower	Upper
61	100		
43	580.2	560.5	620.5
88	35.0	4.5	64.5

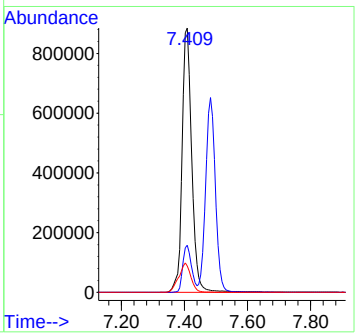


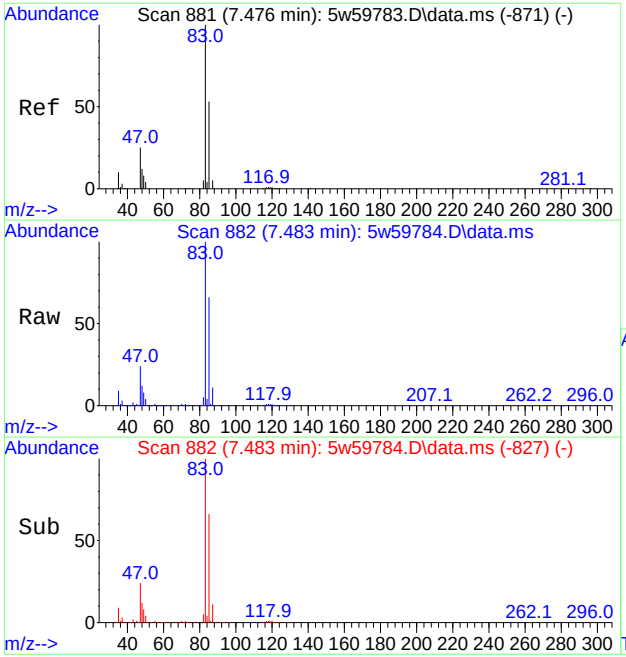


#45
METHYL ACRYLATE
Concen: 21.07 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 1885856

Ion	Ratio	Lower	Upper
55	100		
85	16.1	10.9	20.3
58	13.9	9.4	17.6

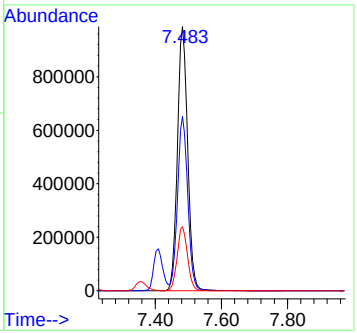


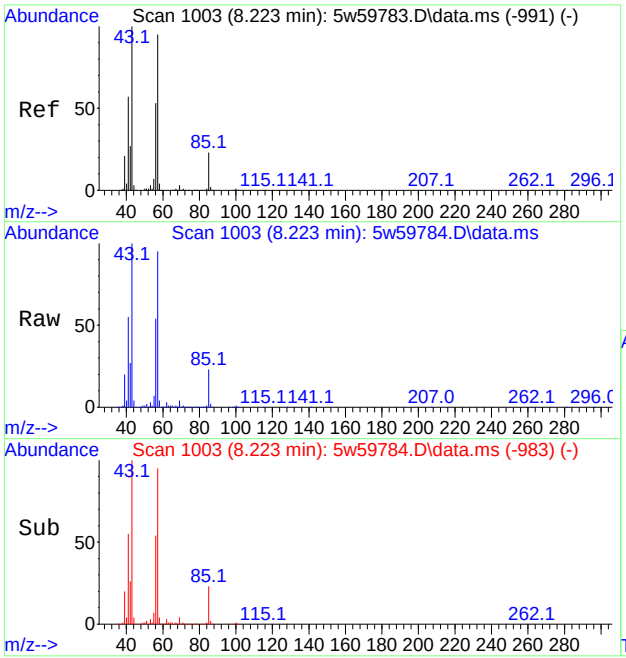


#46
CHLOROFORM
Concen: 18.57 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2134176

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	24.5	0.0	55.2

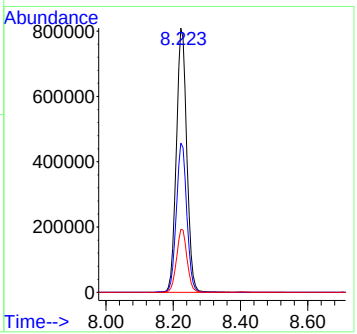


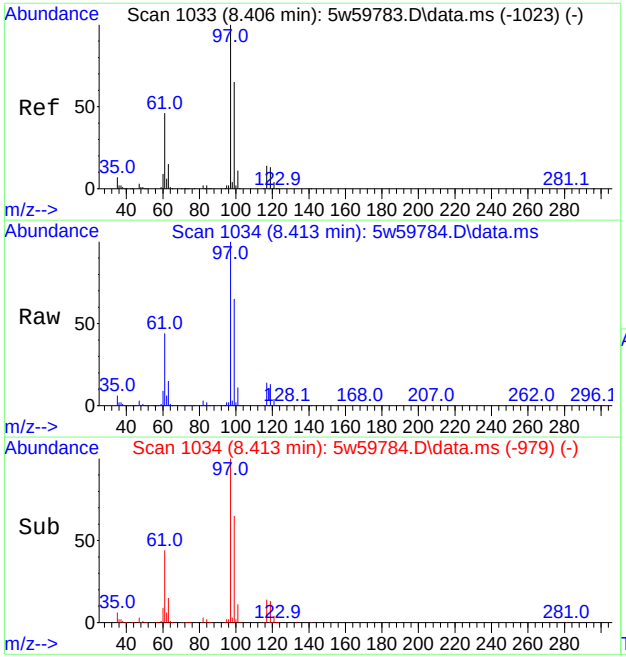


#47
2,4-DIMETHYLPENTANE
Concen: 19.75 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1747860

Ion	Ratio	Lower	Upper
57	100		
56	56.8	26.5	86.5
85	24.0	0.0	53.8

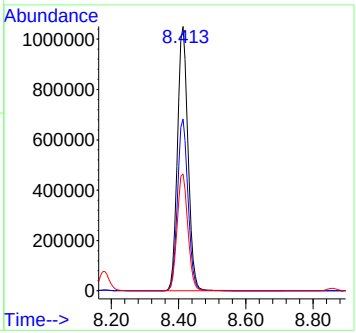


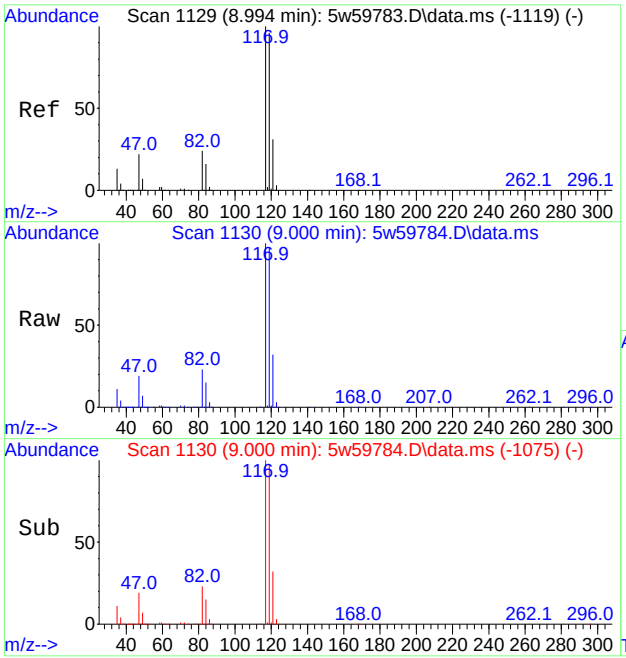


#48
1,1,1-TRICHLOROETHANE
Concen: 18.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 97 Resp: 2289683

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.8	94.8
61	45.3	15.8	75.8

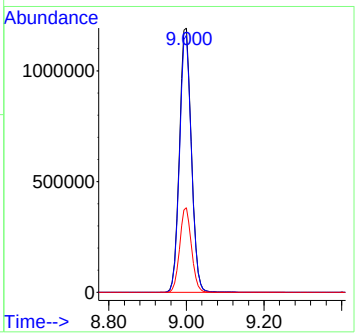


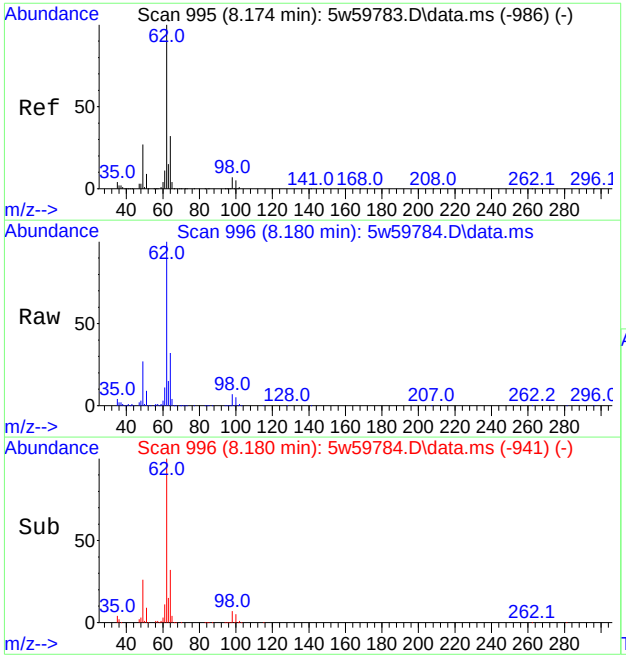


#49
CARBON TETRACHLORIDE
Concen: 18.43 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2555242

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.5	1.3	61.3

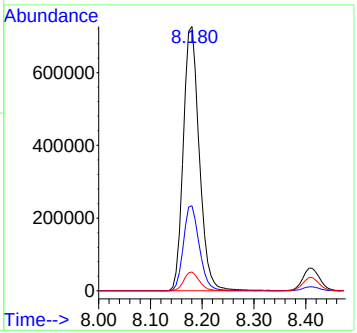


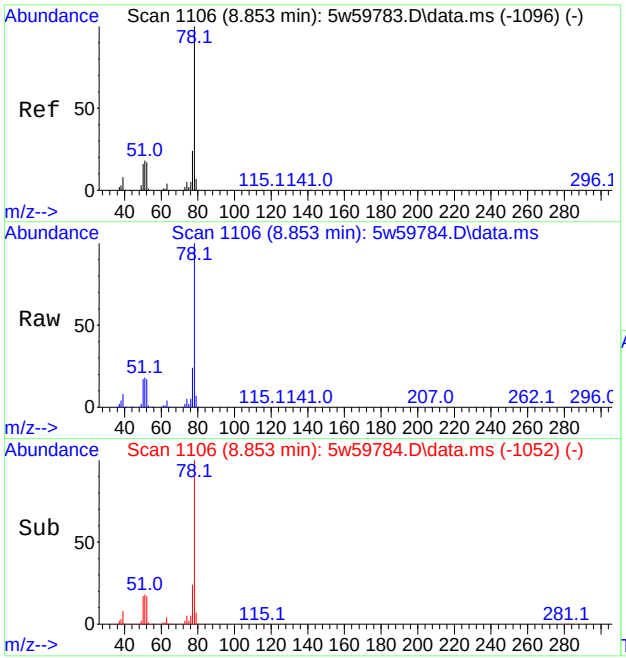


#50
1,2-DICHLOROETHANE
Concen: 19.15 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 1561332

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	7.0	0.0	36.9

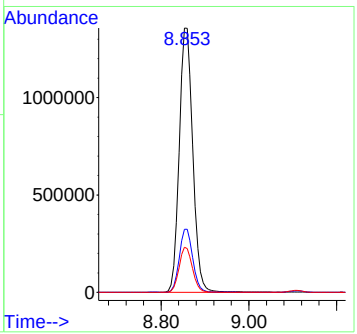


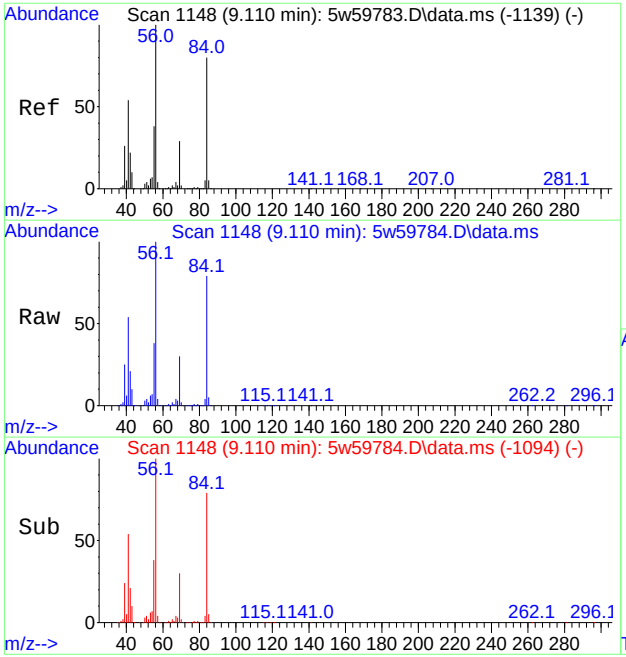


#52
BENZENE
Concen: 22.68 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 78 Resp: 2903342

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

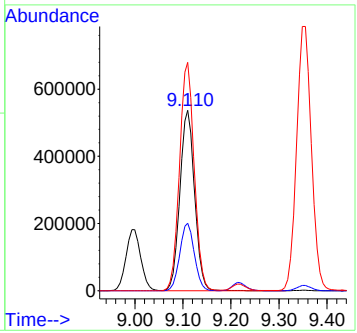


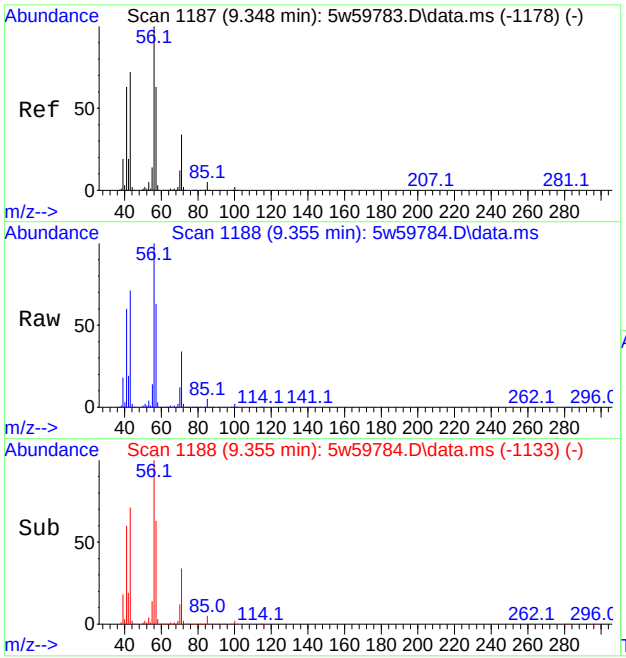


#53
CYCLOHEXANE
Concen: 22.41 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 1139585

Ion	Ratio	Lower	Upper
84	100		
69	37.2	6.9	66.9
56	126.2	98.2	158.2

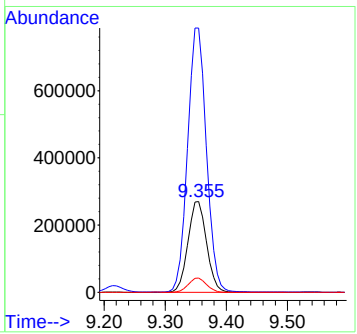


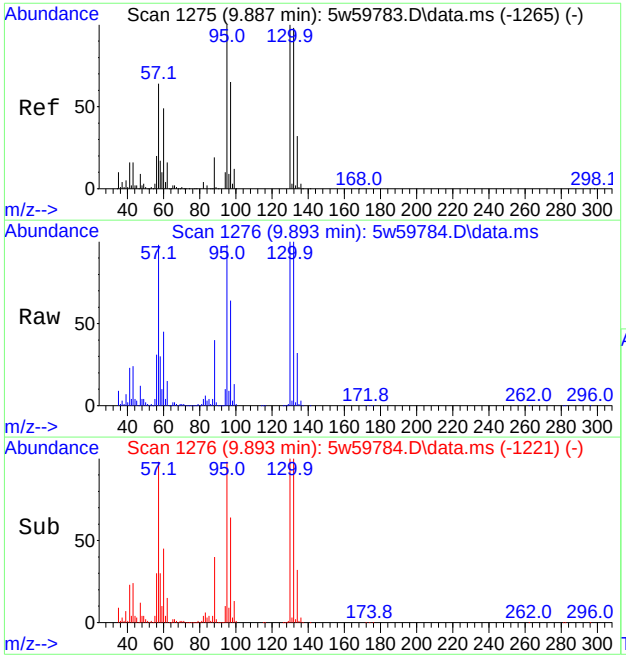


#54
2,3-DIMETHYLPENTANE
Concen: 22.39 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 71 Resp: 573637

Ion	Ratio	Lower	Upper
71	100		
56	294.3	264.6	324.6
85	15.5	0.0	45.3

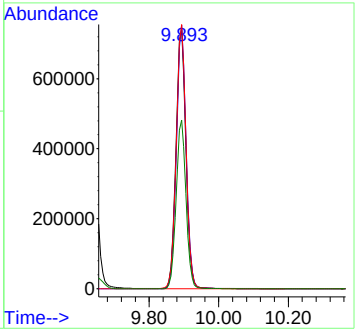


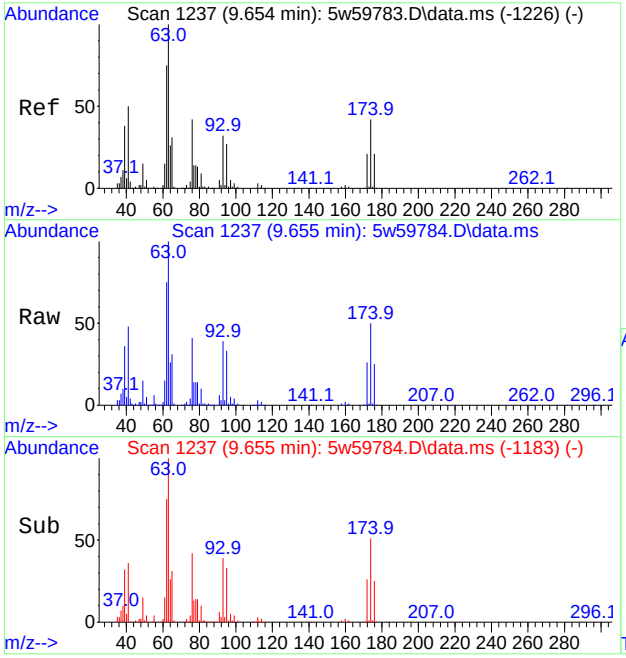


#55
TRICHLOROETHYLENE
Concen: 21.65 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 95 Resp: 1474907

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.3	70.6	130.6
97	64.8	34.6	94.6

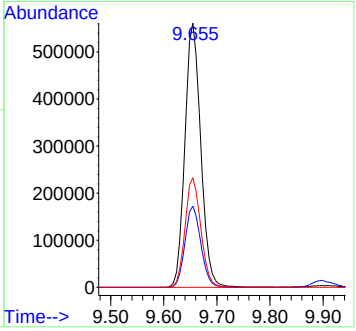


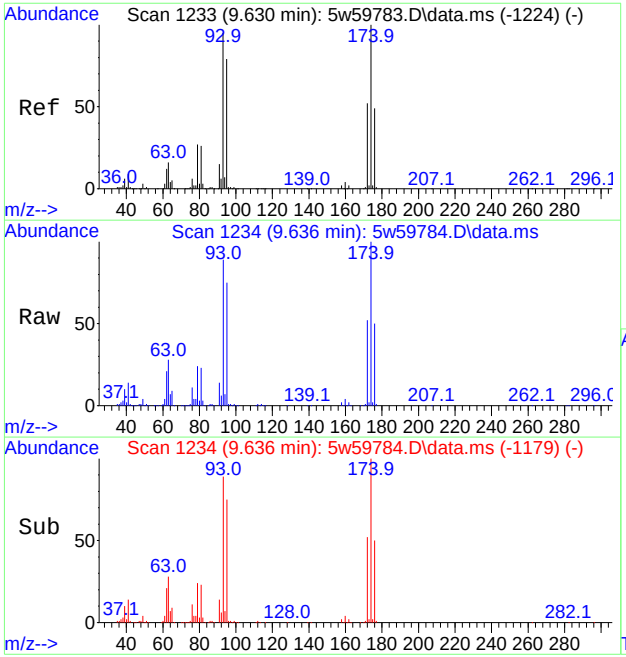


#56
1,2-DICHLOROPROPANE
Concen: 21.61 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1173566

Ion	Ratio	Lower	Upper
63	100		
65	30.7	0.5	60.5
76	41.3	11.5	71.5

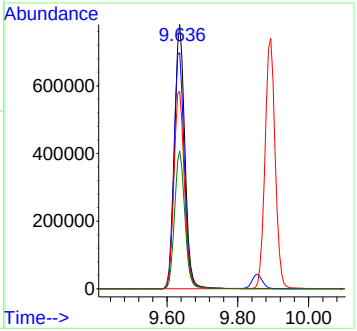


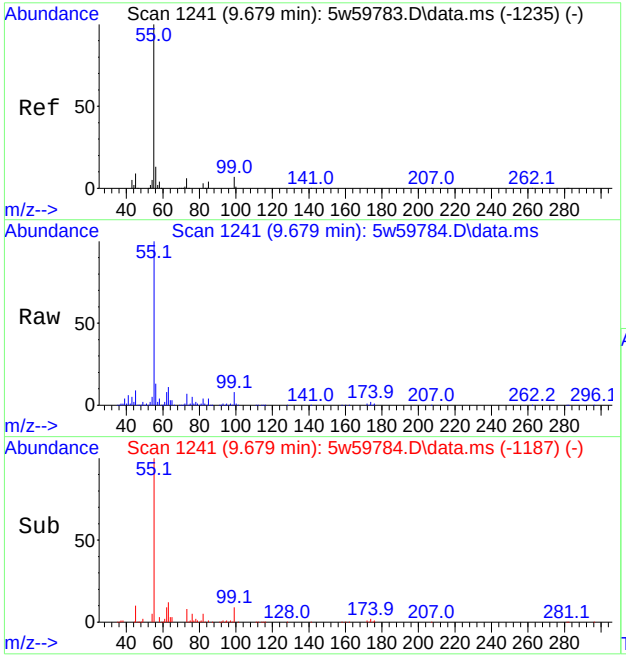


#57
DIBROMOMETHANE
Concen: 21.13 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:174 Resp: 1578012

Ion	Ratio	Lower	Upper
174	100		
93	91.6	65.0	120.6
95	76.8	54.5	101.1
172	52.1	36.3	67.5

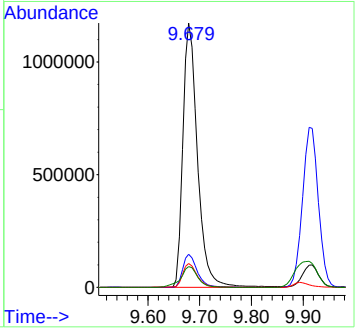


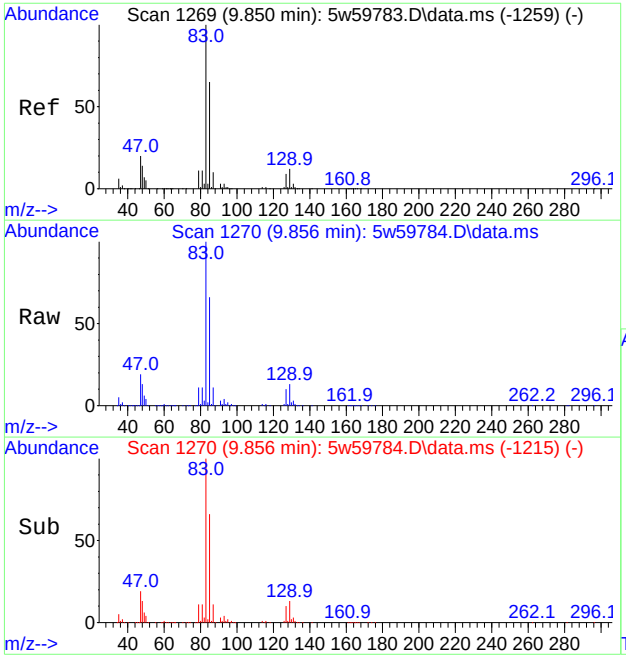


#58
ETHYL ACRYLATE
Concen: 23.37 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 2306359

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.0	6.6	12.2
99	9.3	6.4	12.0

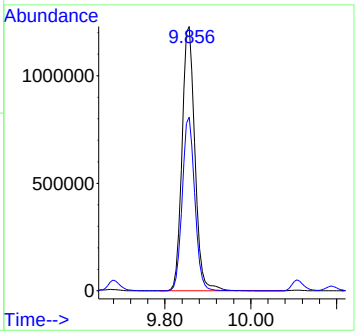


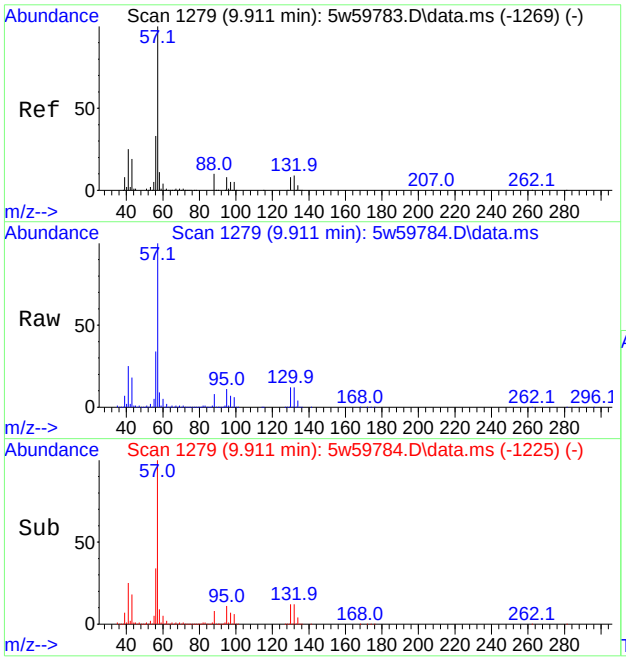


#59
BROMODICHLOROMETHANE
Concen: 21.01 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2548286

Ion	Ratio	Lower	Upper
83	100		
85	64.1	33.4	93.4

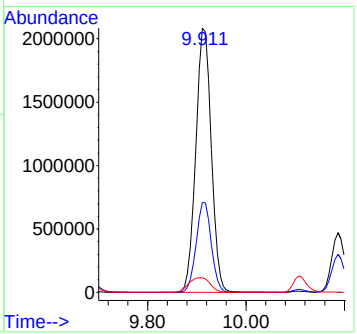


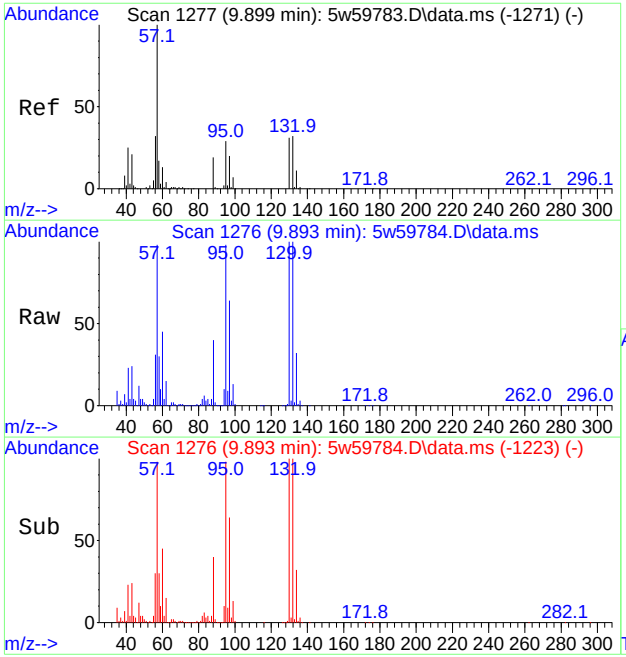


#60
2,2,4-TRIMETHYLPENTANE
Concen: 20.94 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 4564310

Ion	Ratio	Lower	Upper
57	100		
56	33.1	2.5	62.5
99	7.7	0.0	37.3

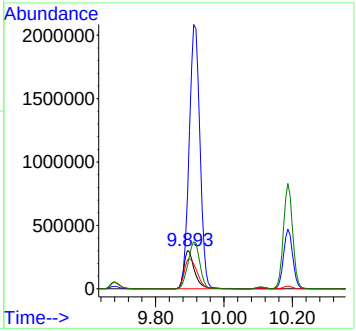


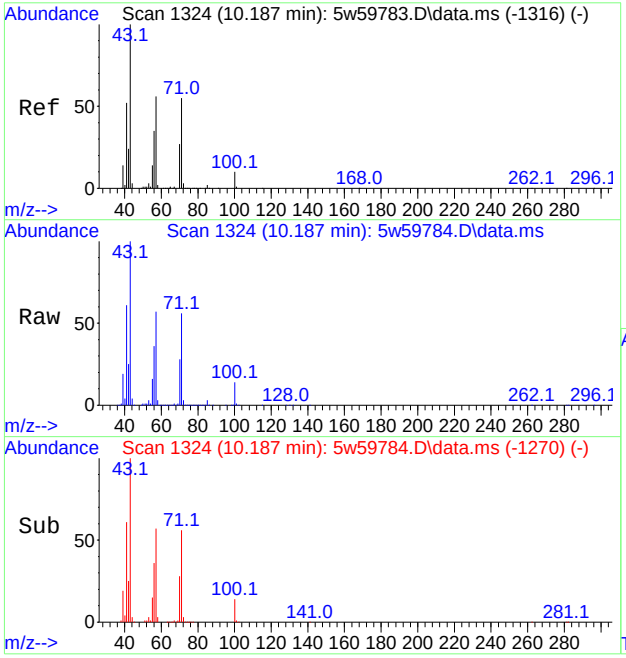


#61
1,4-DIOXANE
Concen: 24.77 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 88 Resp: 653321

Ion	Ratio	Lower	Upper
88	100		
57	243.5	494.2	554.2#
58	75.6	58.9	118.9
43	60.5	78.3	138.3#

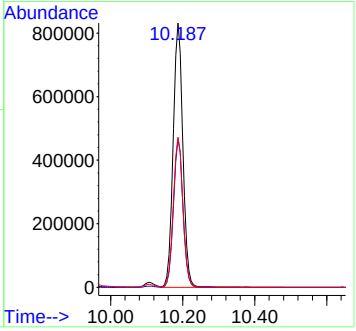


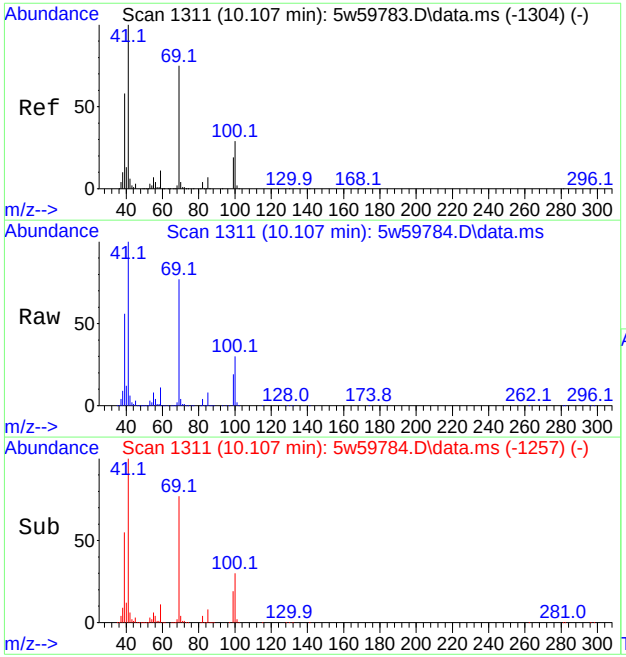


#62
HEPTANE
Concen: 19.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 1555190

Ion	Ratio	Lower	Upper
43	100		
71	55.3	24.5	84.5
57	56.8	26.2	86.2

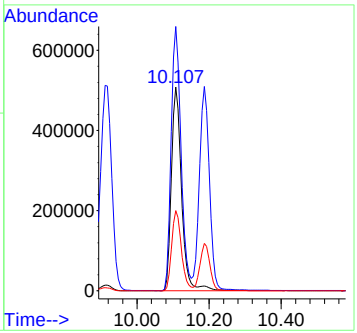


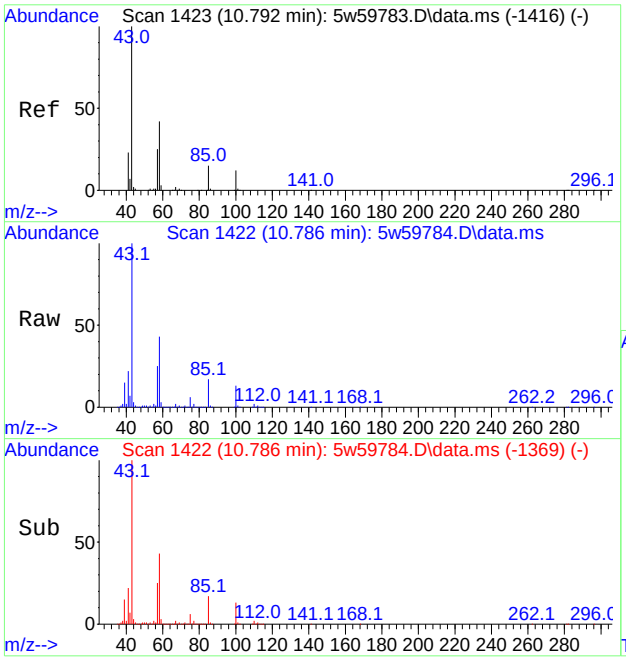


#63
METHYL METHACRYLATE
Concen: 25.22 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1000168

Ion	Ratio	Lower	Upper
69	100		
41	124.8	95.3	155.3
100	37.7	6.3	66.3

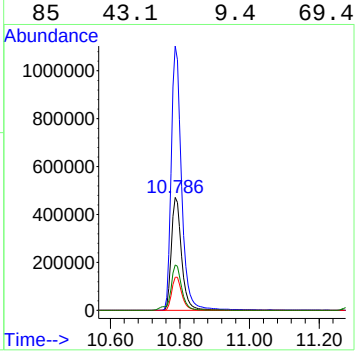


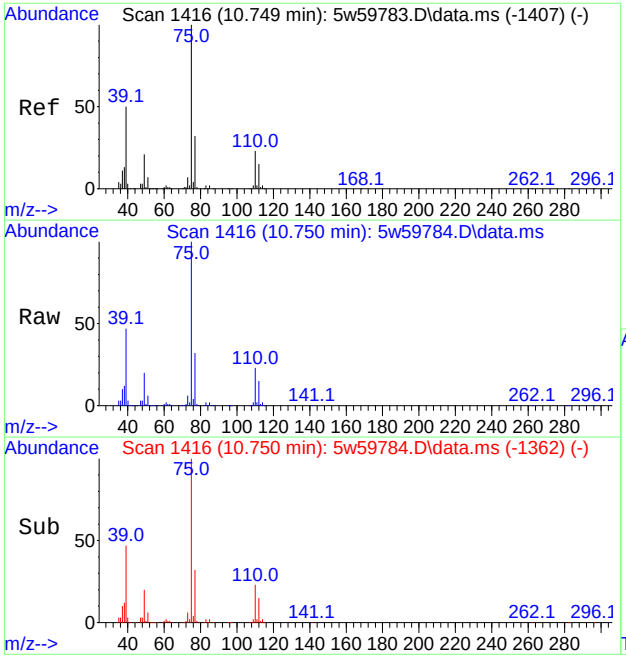


#64
METHYL ISOBUTYL KETONE
Concen: 23.79 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 969468

Ion	Ratio	Lower	Upper
58	100		
43	234.9	209.2	269.2
100	29.7	0.0	58.8
85	43.1	9.4	69.4

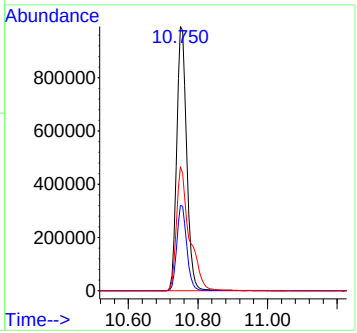


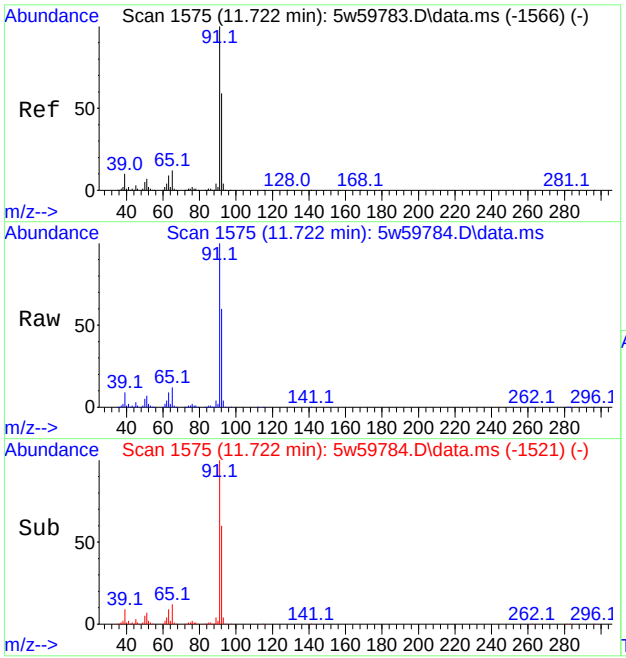


#65
cis-1,3-DICHLOROPROPENE
Concen: 23.56 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1985103

Ion	Ratio	Lower	Upper
75	100		
77	32.3	2.2	62.2
39	61.2	34.3	94.3

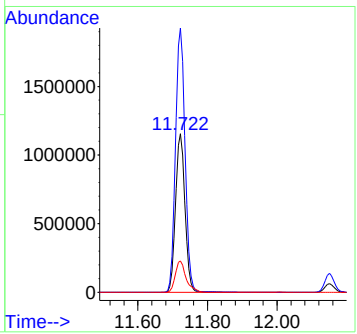


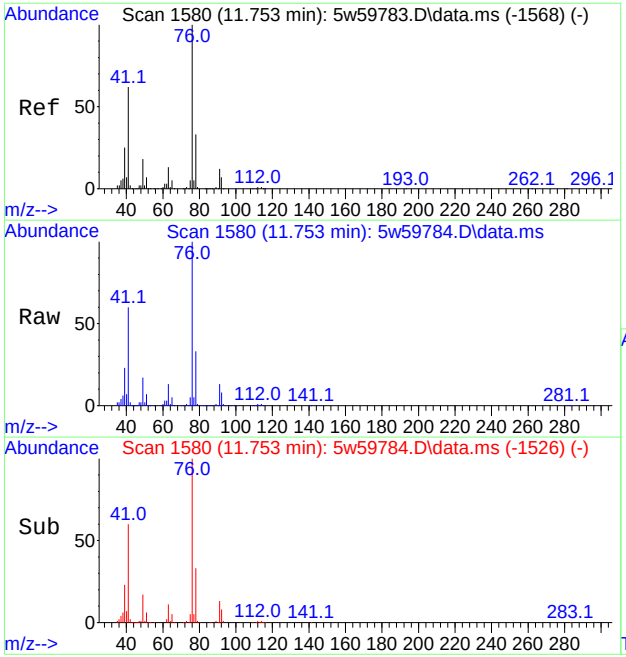


#66
TOLUENE
Concen: 23.93 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 92 Resp: 2187710

Ion	Ratio	Lower	Upper
92	100		
91	168.7	140.1	200.1
65	22.8	0.0	53.1

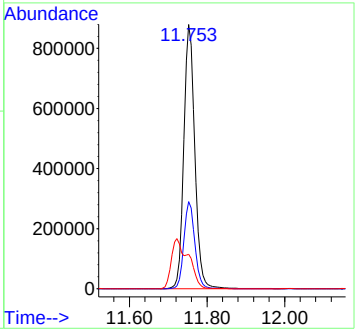


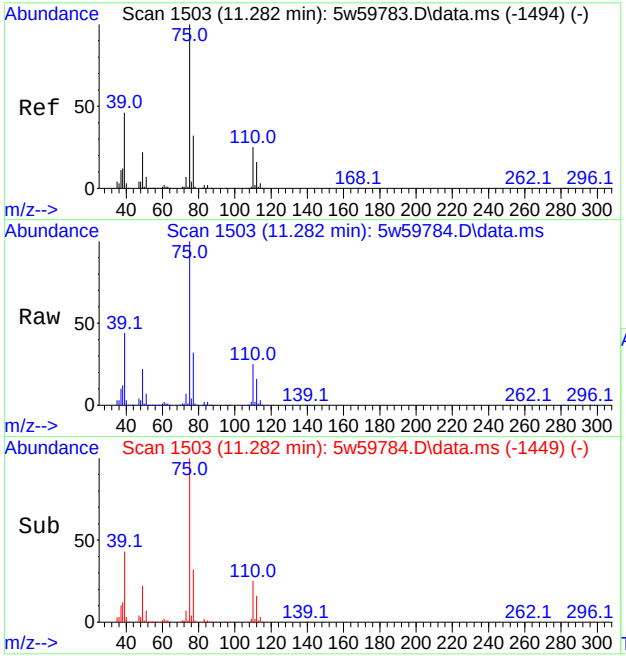


#67
1,3-DICHLOROPROPANE
Concen: 22.65 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 1738240

Ion	Ratio	Lower	Upper
76	100		
78	33.0	23.2	43.0
63	10.3	7.1	13.1

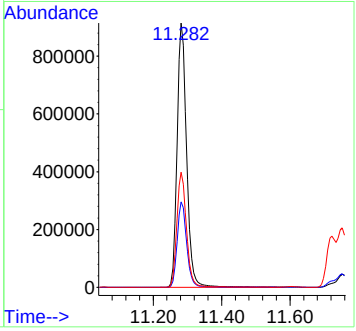


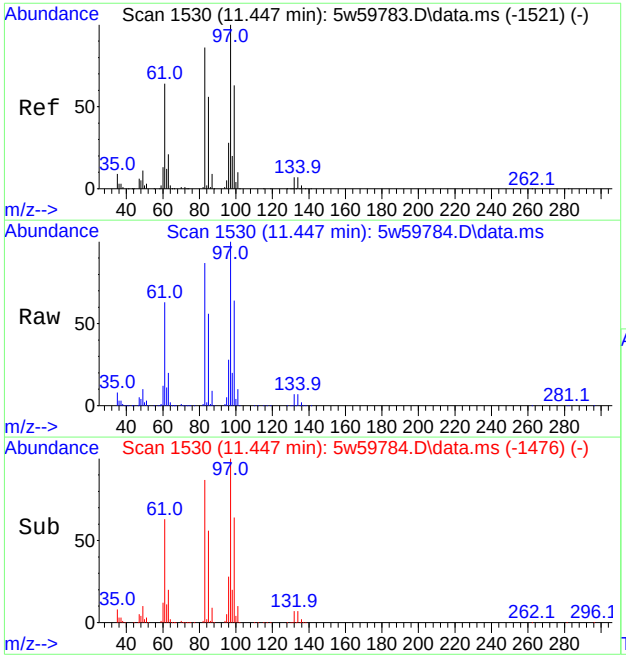


#68
trans-1,3-DICHLOROPROPENE
Concen: 22.91 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1772531

Ion	Ratio	Lower	Upper
75	100		
77	32.4	1.6	61.6
39	44.2	16.1	76.1

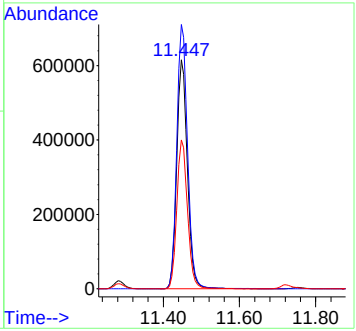


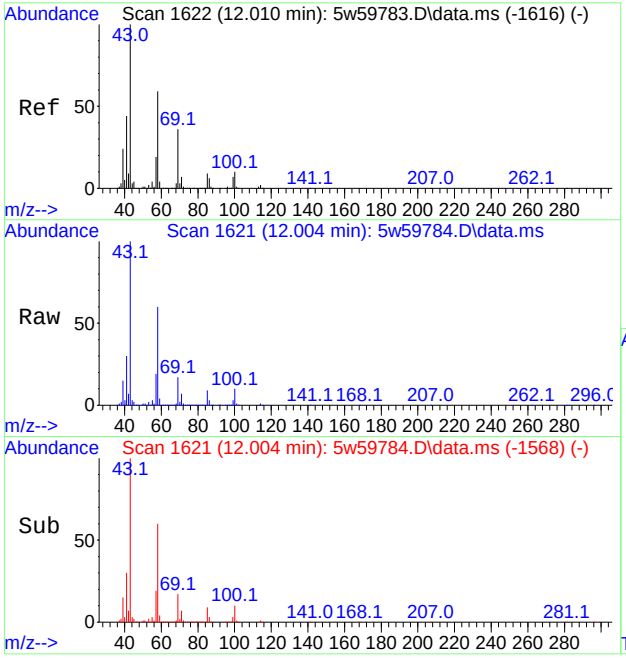


#69
1,1,2-TRICHLOROETHANE
Concen: 23.91 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 1196566

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.2	35.3	95.3

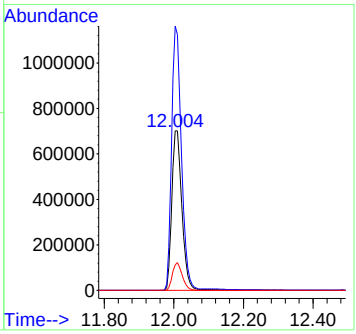


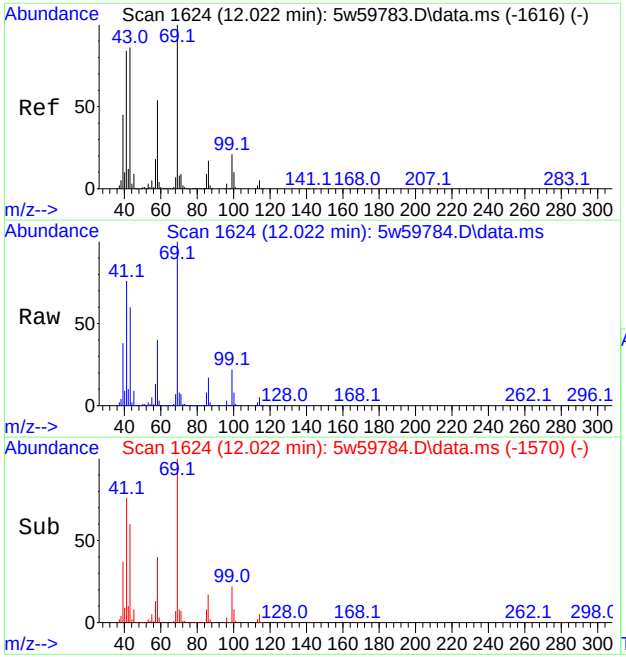


#71
2-HEXANONE
Concen: 25.09 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 1425280

Ion	Ratio	Lower	Upper
58	100		
43	161.8	137.2	197.2
100	17.1	0.0	46.9

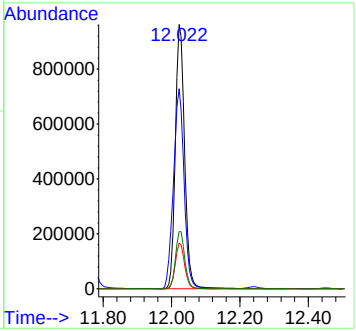


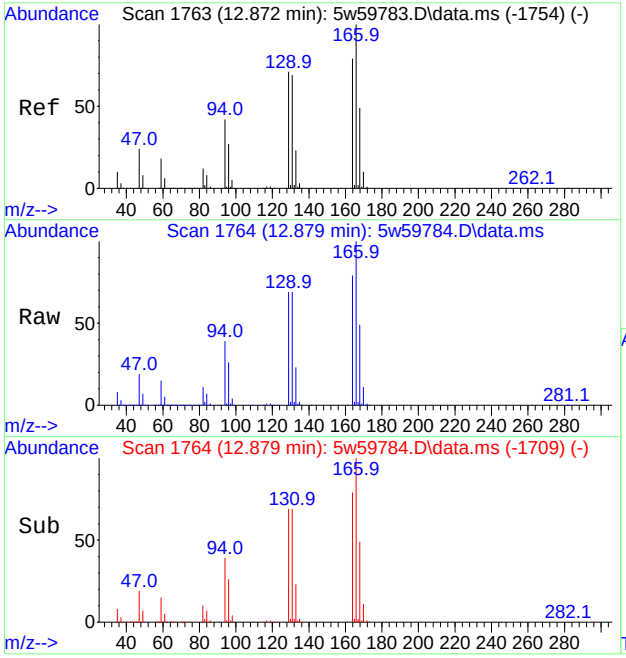


#72
ETHYL METHACRYLATE
Concen: 25.28 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1817206

Ion	Ratio	Lower	Upper
69	100		
41	87.2	64.0	119.0
86	17.4	12.0	22.4
99	21.8	15.0	27.8

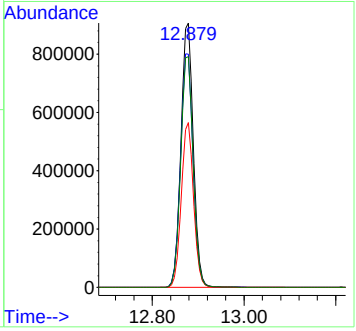


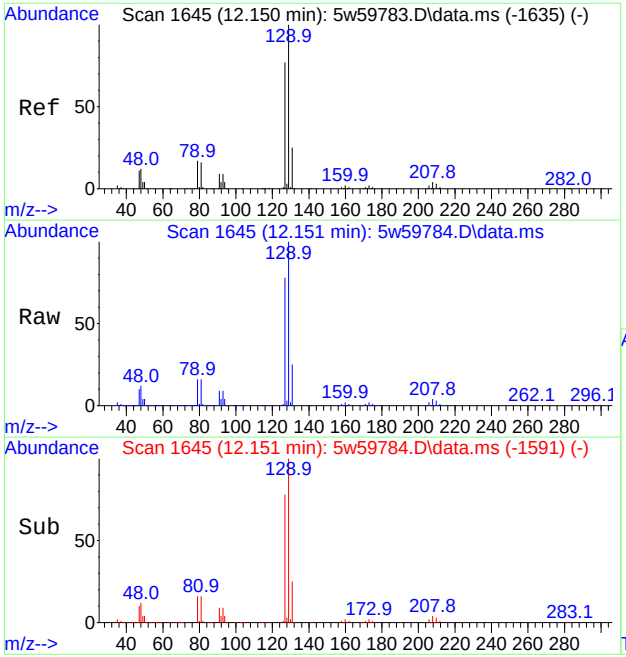


#73
TETRACHLOROETHYLENE
Concen: 20.29 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:164 Resp: 1702539

Ion	Ratio	Lower	Upper
164	100		
129	89.5	59.7	119.7
168	62.0	32.2	92.2
131	88.0	57.8	117.8

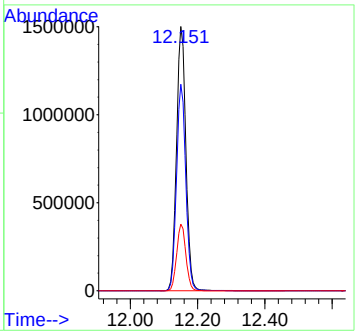


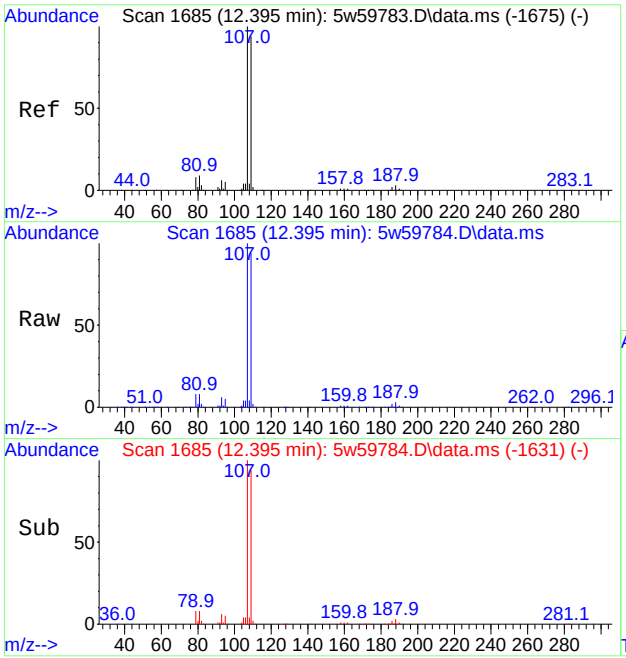


#74
DIBROMOCHLOROMETHANE
Concen: 20.55 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:129 Resp: 2900352

Ion	Ratio	Lower	Upper
129	100		
127	77.8	47.1	107.1
131	25.0	0.0	54.5

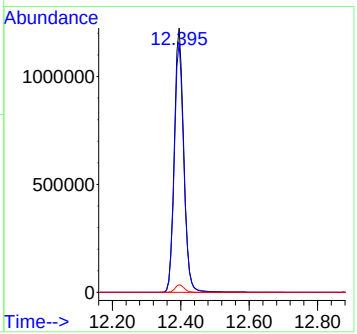


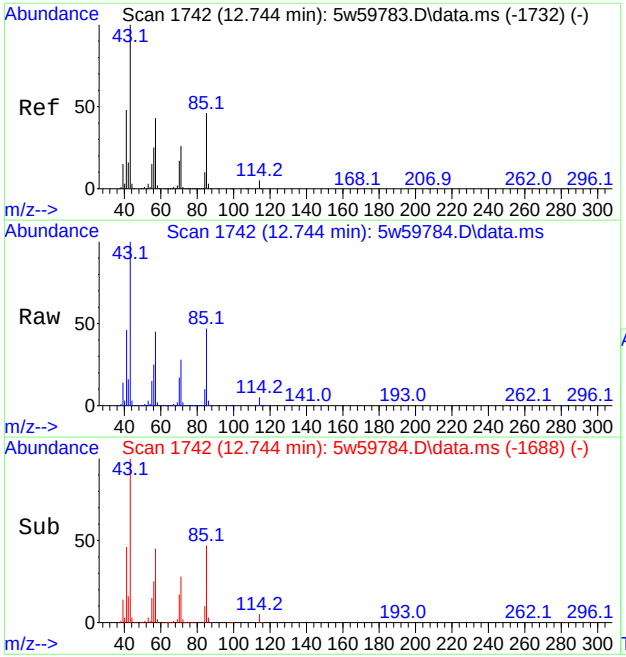


#75
1,2-DIBROMOETHANE
Concen: 22.95 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:107 Resp: 2366337

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

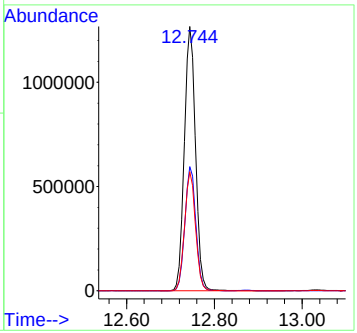


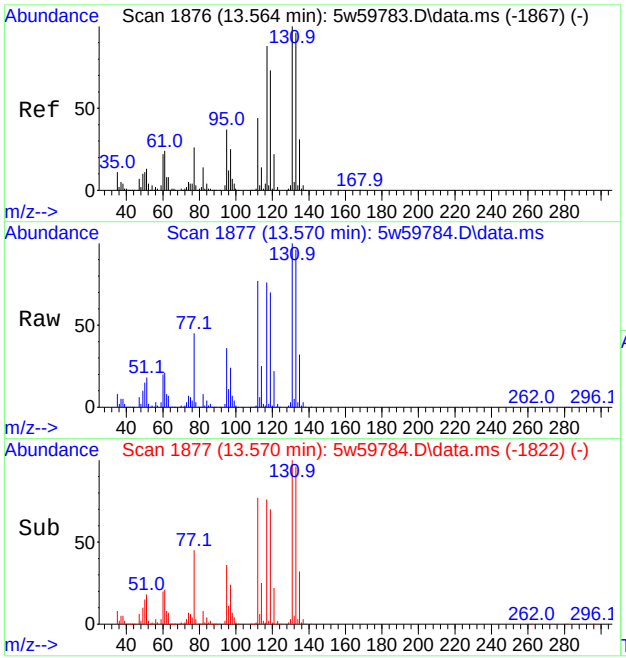


#76
OCTANE
Concen: 18.84 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2238080

Ion	Ratio	Lower	Upper
43	100		
85	46.2	14.6	74.6
57	44.3	13.7	73.7

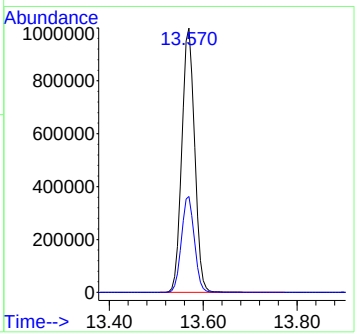


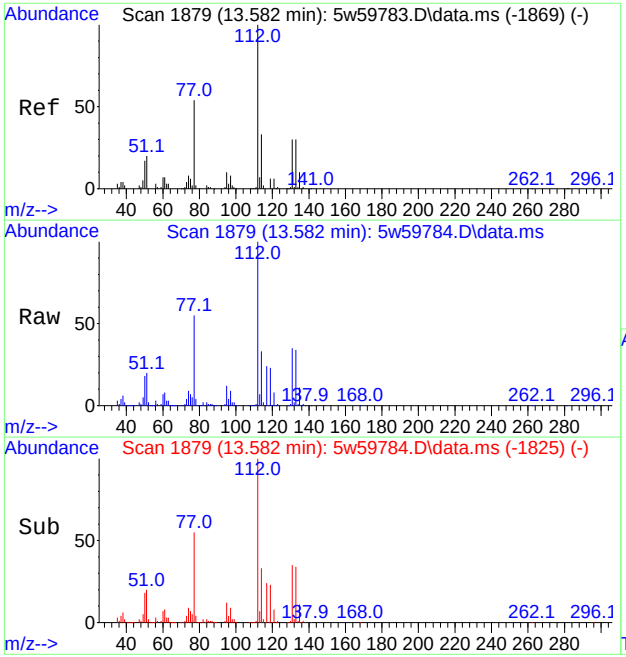


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.52 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:131 Resp: 1899714

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

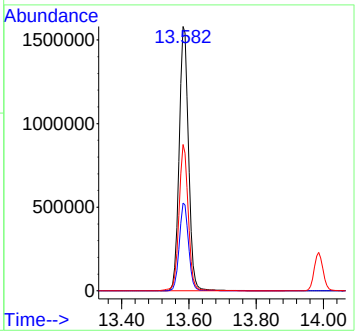


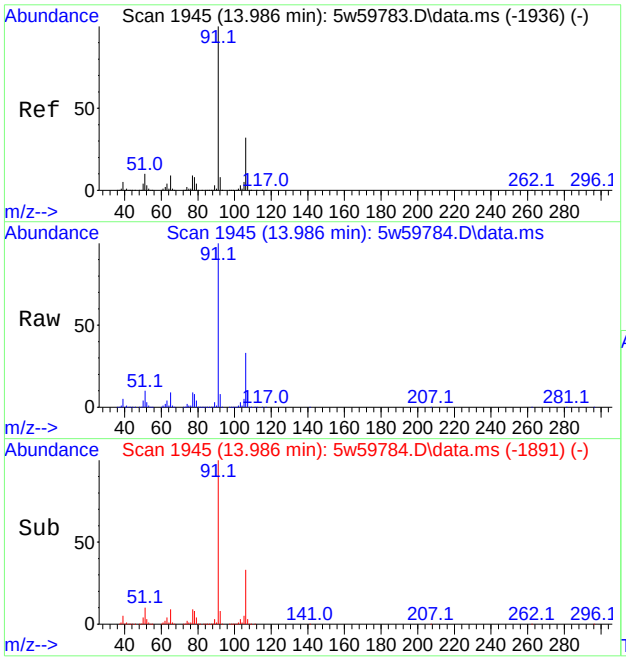


#78
CHLOROBENZENE
Concen: 20.02 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:112 Resp: 3046547

Ion	Ratio	Lower	Upper
112	100		
114	33.0	2.6	62.6
77	55.1	25.4	85.4

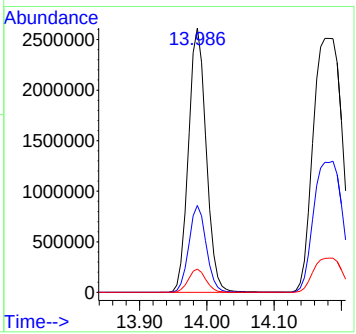


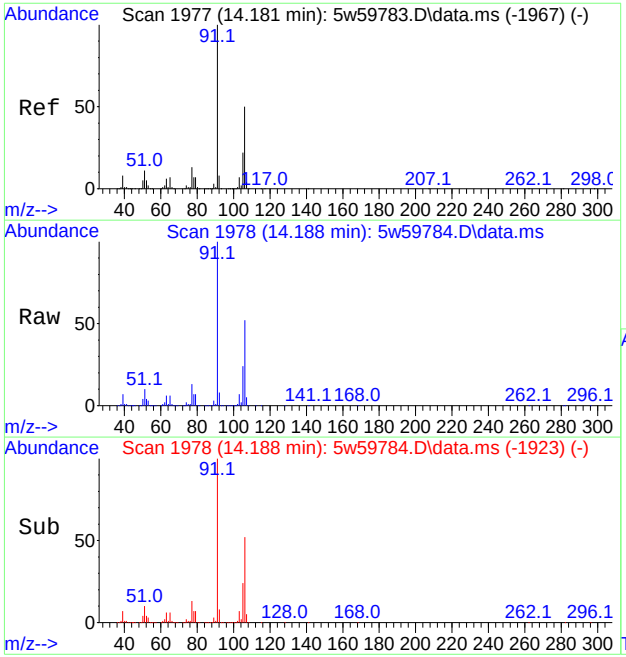


#79
ETHYLBENZENE
Concen: 22.00 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4800136

Ion	Ratio	Lower	Upper
91	100		
106	32.3	1.3	61.3
77	8.7	0.0	38.6

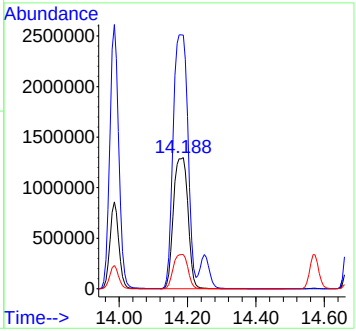


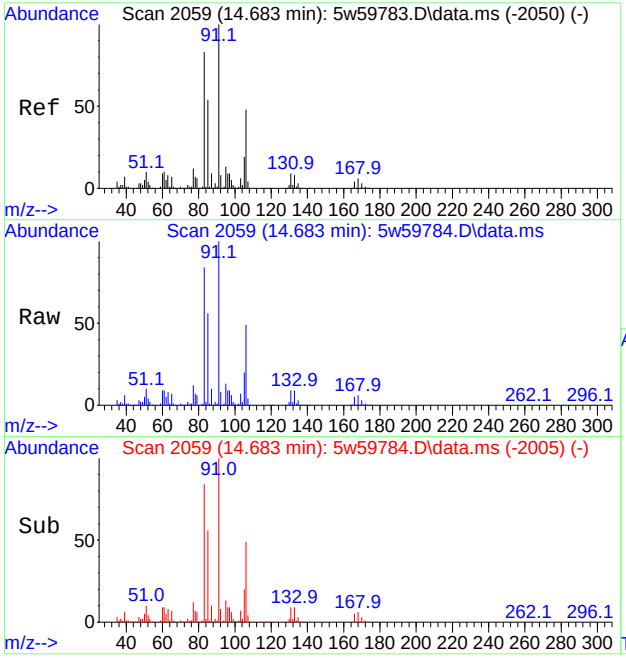


#80
m,p-XYLENE
Concen: 46.33 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 3838940

Ion	Ratio	Lower	Upper
106	100		
91	193.3	171.0	231.0
77	26.1	0.0	56.7

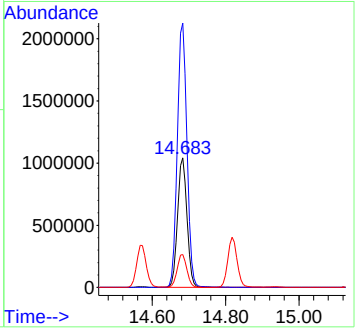


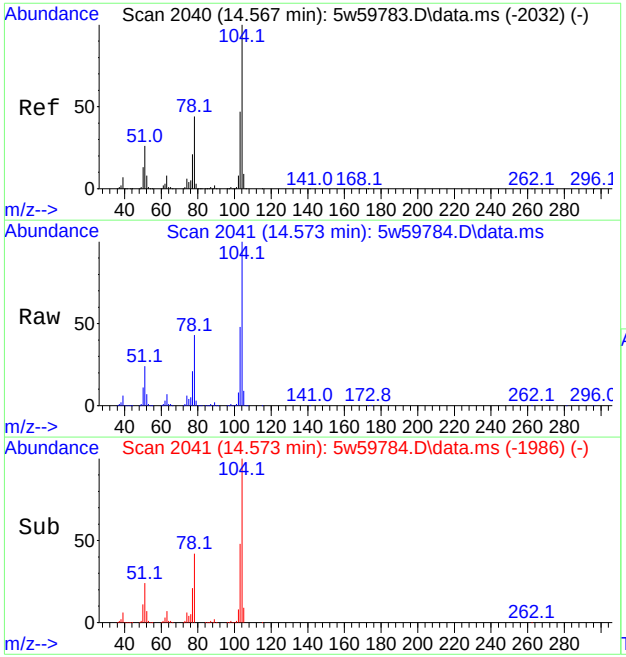


#81
o-XYLENE
Concen: 24.57 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 1866956

Ion	Ratio	Lower	Upper
106	100		
91	207.5	181.6	241.6
77	26.0	0.0	56.6

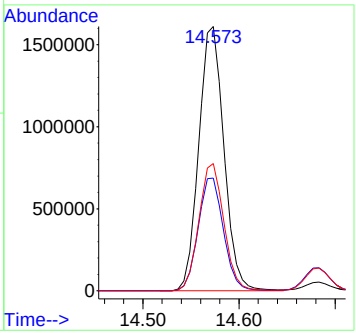


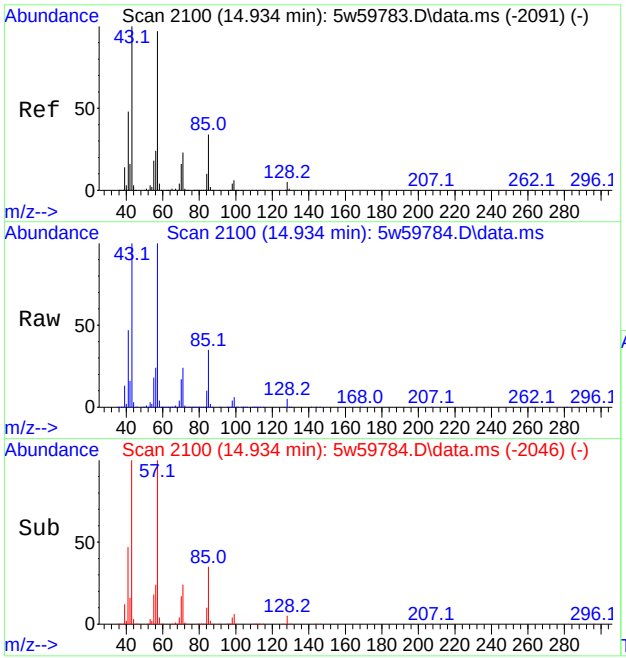


#82
STYRENE
Concen: 25.25 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:104 Resp: 2939414

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.7	17.2	77.2

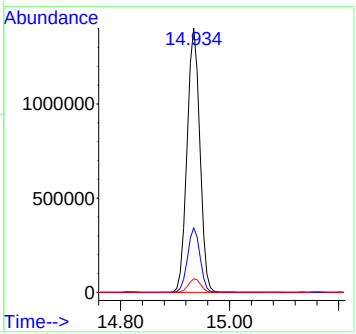


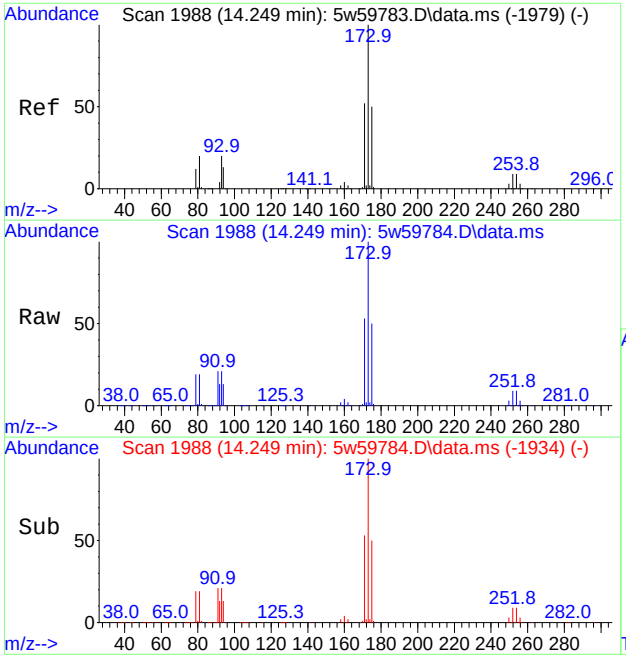


#83
NONANE
Concen: 19.27 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2271246

Ion	Ratio	Lower	Upper
43	100		
71	23.9	0.0	52.7
128	5.0	0.0	34.7

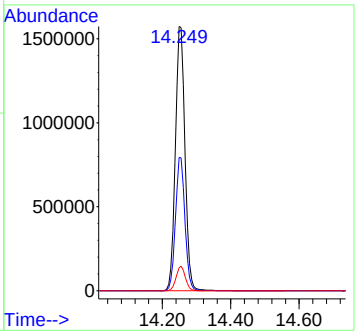


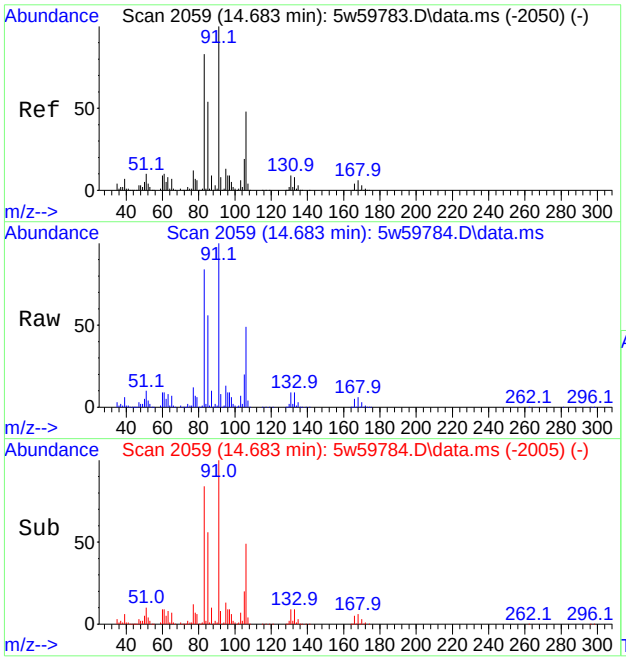


#84
BROMOFORM
Concen: 21.19 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:173 Resp: 3083788

Ion	Ratio	Lower	Upper
173	100		
175	49.9	19.6	79.6
254	9.1	0.0	39.0

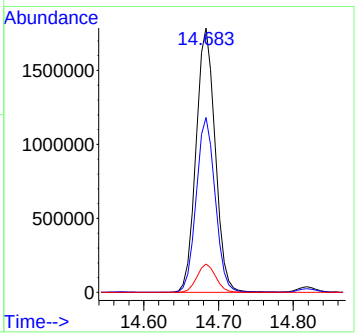


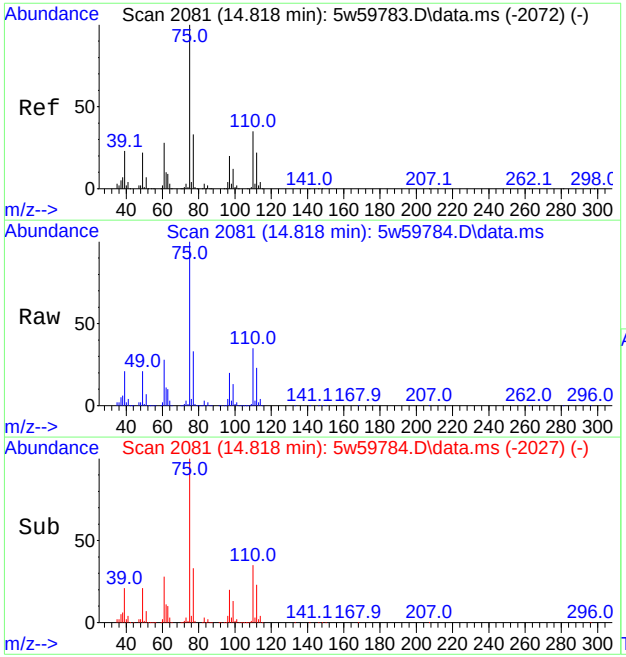


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 23.67 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 3171683

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.2	95.2
131	10.5	0.0	40.3

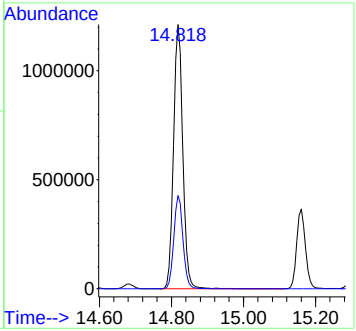


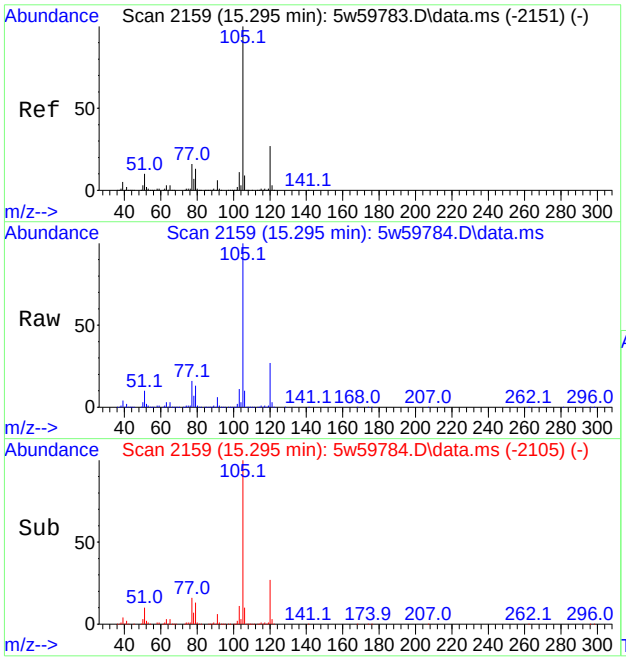


#87
1,2,3-TRICHLOROPROPANE
Concen: 19.01 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 2166410

Ion	Ratio	Lower	Upper
75	100		
110	35.1	4.4	64.4

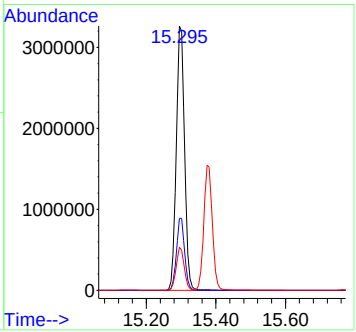


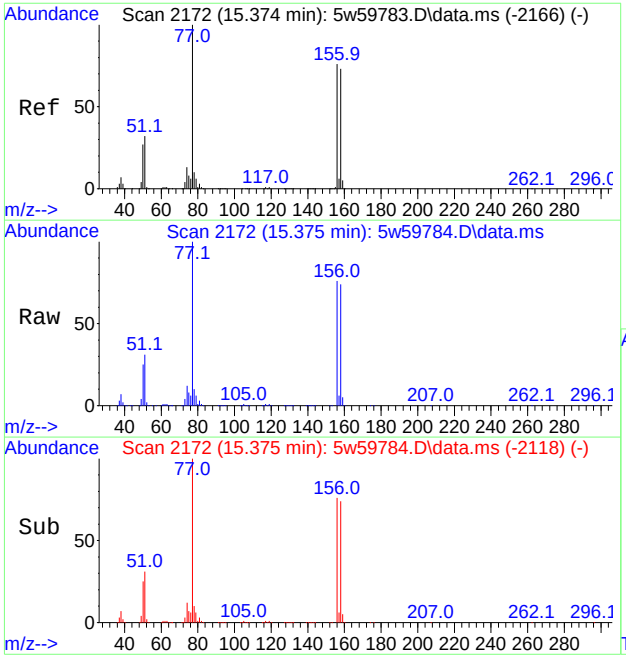


#88
ISOPROPYLBENZENE
Concen: 21.38 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5426205

Ion	Ratio	Lower	Upper
105	100		
120	26.8	0.0	56.0
77	15.7	0.0	45.6

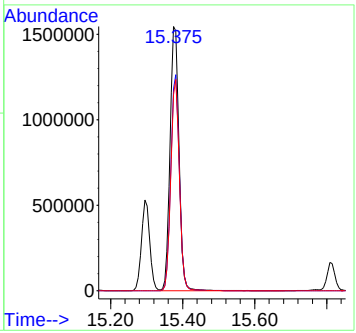


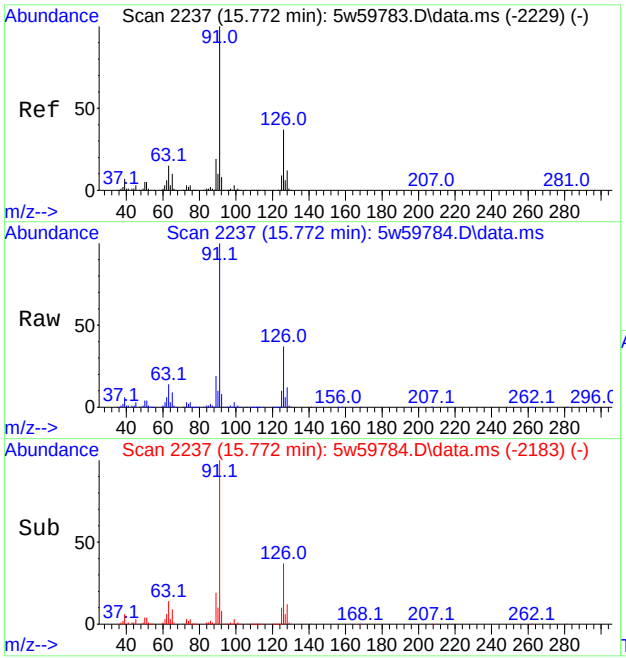


#89
BROMOBENZENE
Concen: 19.84 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 77 Resp: 2635582

Ion	Ratio	Lower	Upper
77	100		
156	79.3	54.9	101.9
158	77.4	53.5	99.3

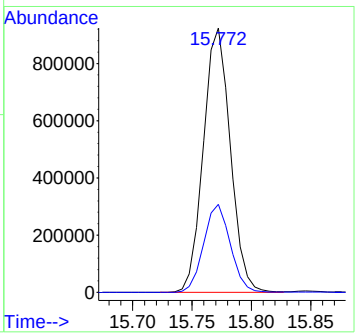


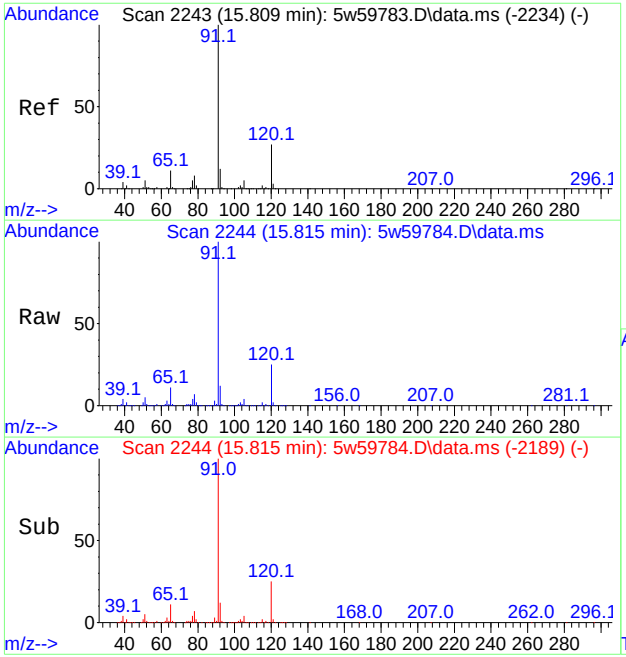


#90
2-CHLOROTOLUENE
Concen: 21.55 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:126 Resp: 1458347

Ion	Ratio	Lower	Upper
126	100		
128	33.0	2.7	62.7

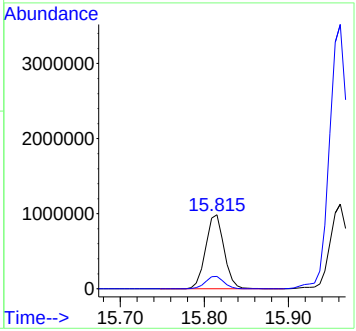


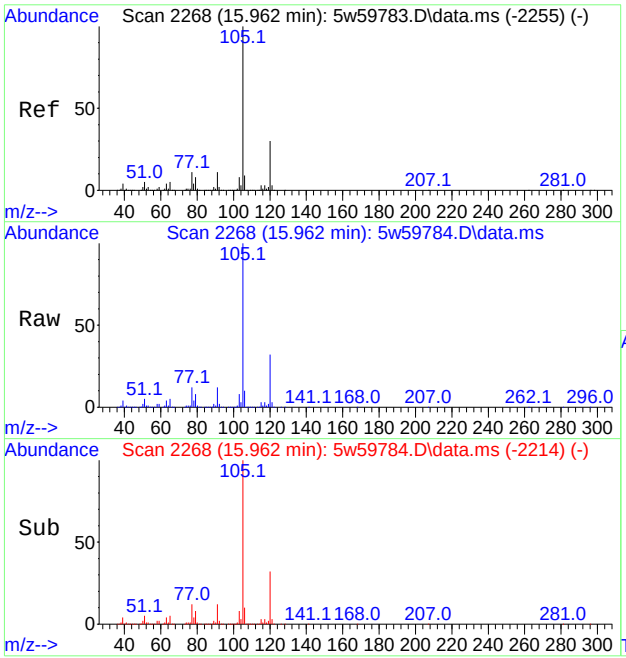


#91
n-PROPYLBENZENE
Concen: 22.21 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:120 Resp: 1498983

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

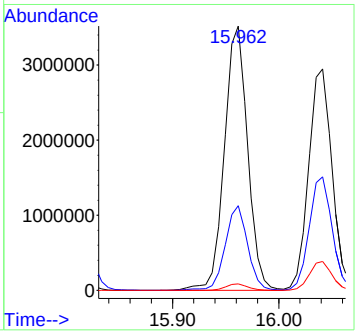


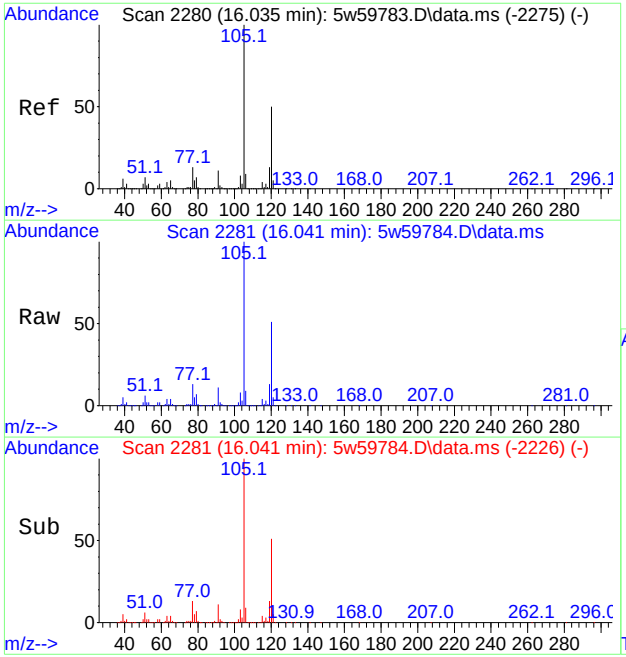


#92
4-ETHYLTOLUENE
Concen: 23.50 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5359201

Ion	Ratio	Lower	Upper
105	100		
120	30.9	0.0	59.9
119	2.4	0.0	32.3

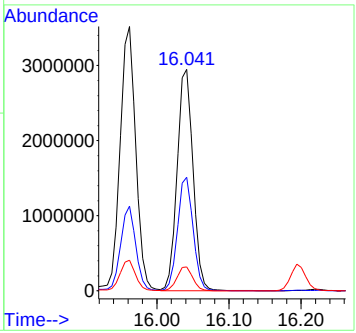


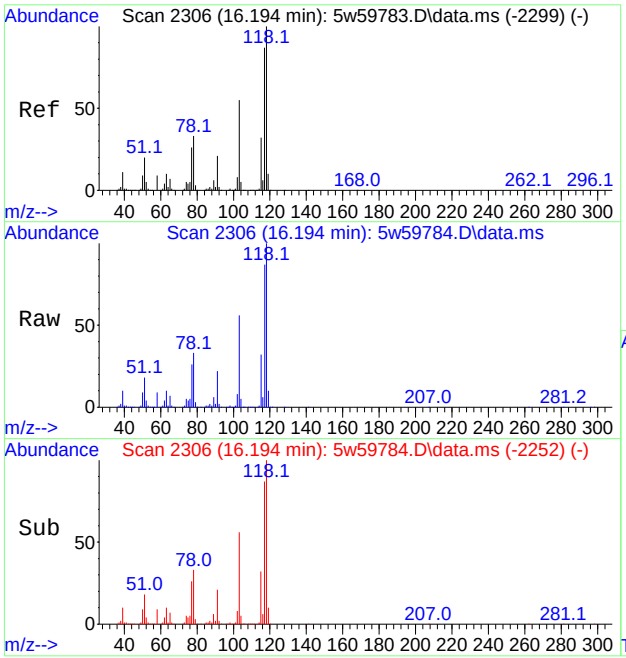


#93
1,3,5-TRIMETHYLBENZENE
Concen: 21.37 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4517483

Ion	Ratio	Lower	Upper
105	100		
120	50.2	19.4	79.4
91	10.8	0.0	40.8

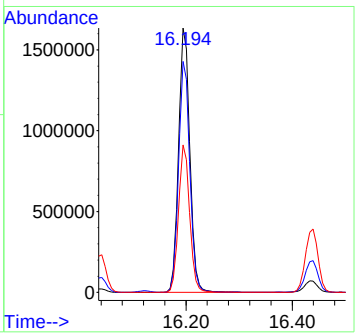


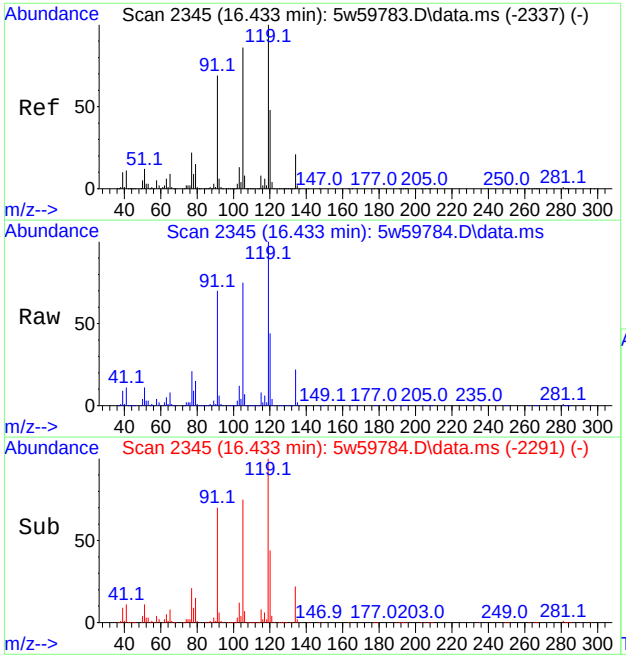


#94
ALPHA-METHYLSTYRENE
Concen: 23.73 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:118 Resp: 2401651

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.1	38.6	71.8

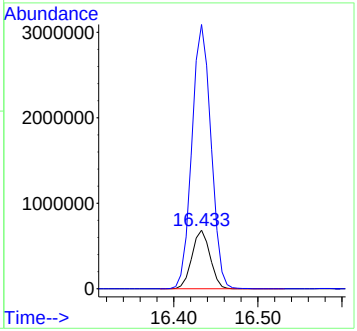


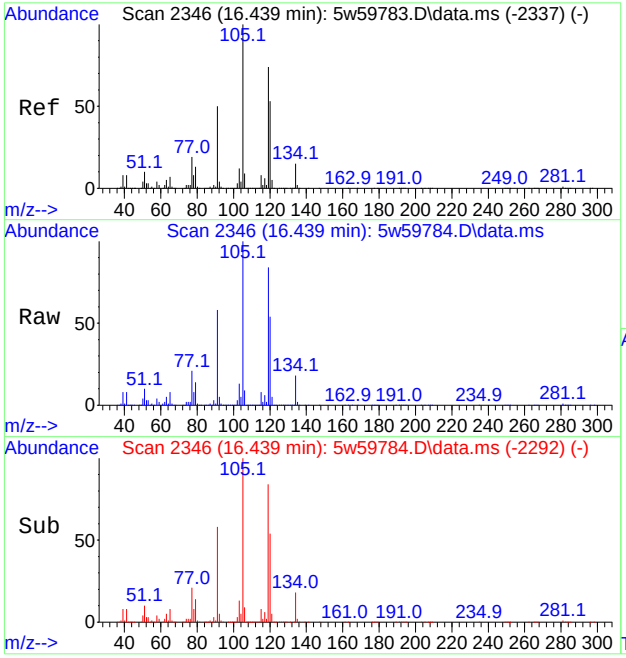


#95
tert-BUTYLBENZENE
Concen: 23.44 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1027177

Ion	Ratio	Lower	Upper
134	100		
119	476.8	459.3	519.3

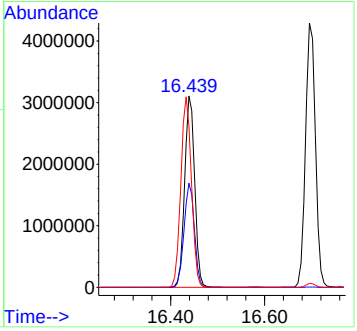


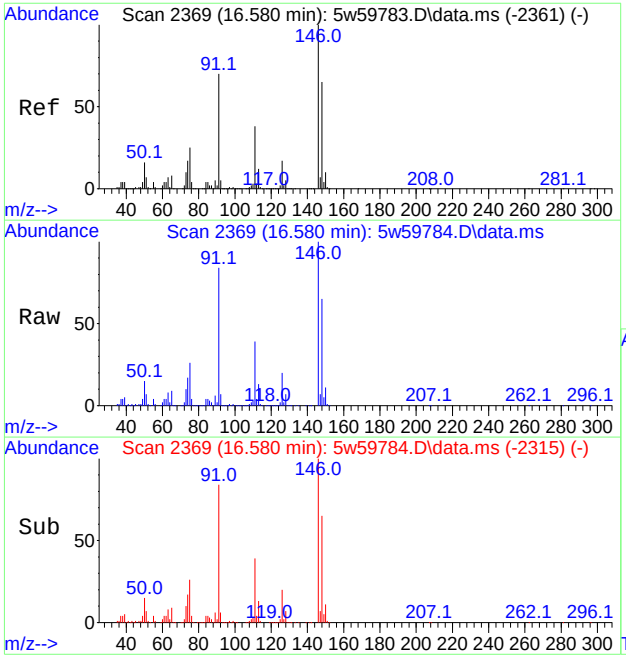


#96
1,2,4-TRIMETHYLBENZENE
Concen: 22.68 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4619537

Ion	Ratio	Lower	Upper
105	100		
120	56.6	25.7	85.7
119	106.0	75.7	135.7

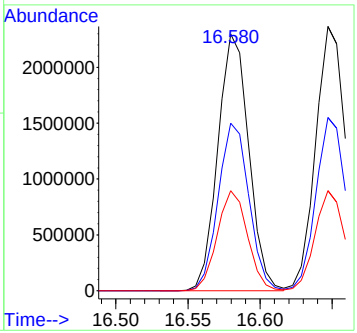


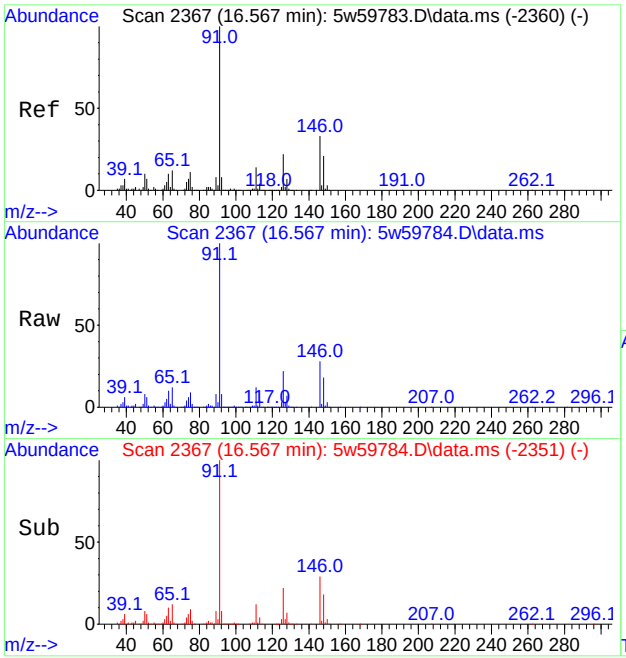


#97
m-DICHLOROBENZENE
Concen: 21.01 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3436542

Ion	Ratio	Lower	Upper
146	100		
148	65.0	34.8	94.8
111	38.3	8.2	68.2

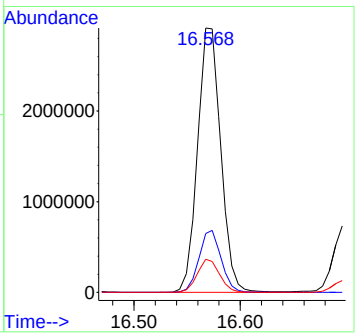


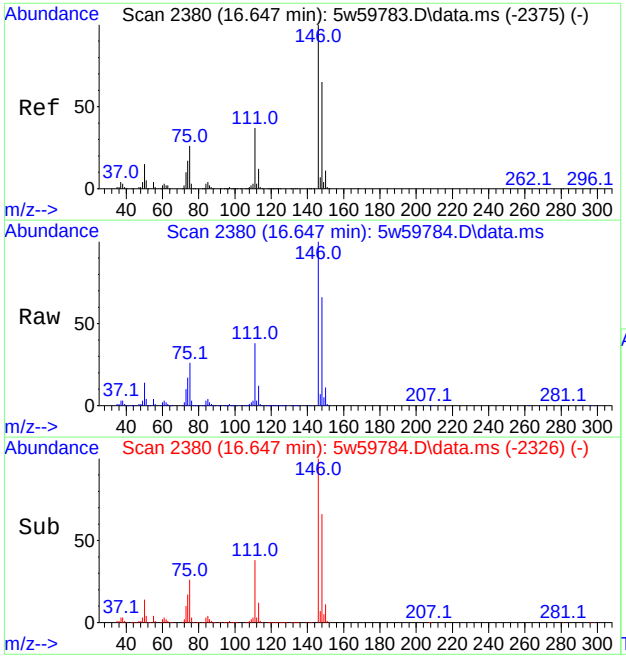


#98
BENZYL CHLORIDE
Concen: 23.83 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4433280

Ion	Ratio	Lower	Upper
91	100		
126	22.5	0.0	51.7
65	12.0	0.0	42.2

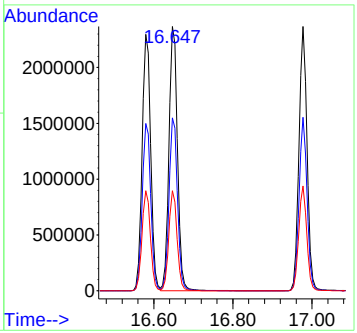


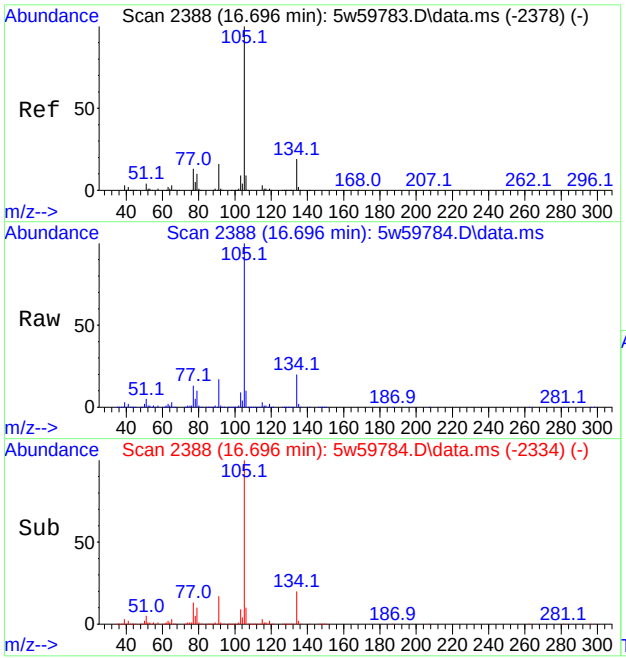


#99
p-DICHLOROBENZENE
Concen: 20.84 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3529112

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	37.0	6.7	66.7

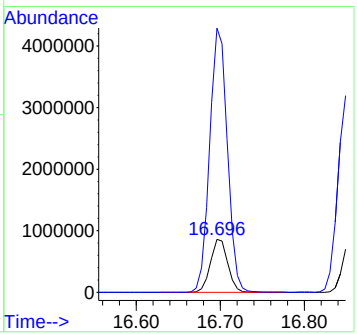


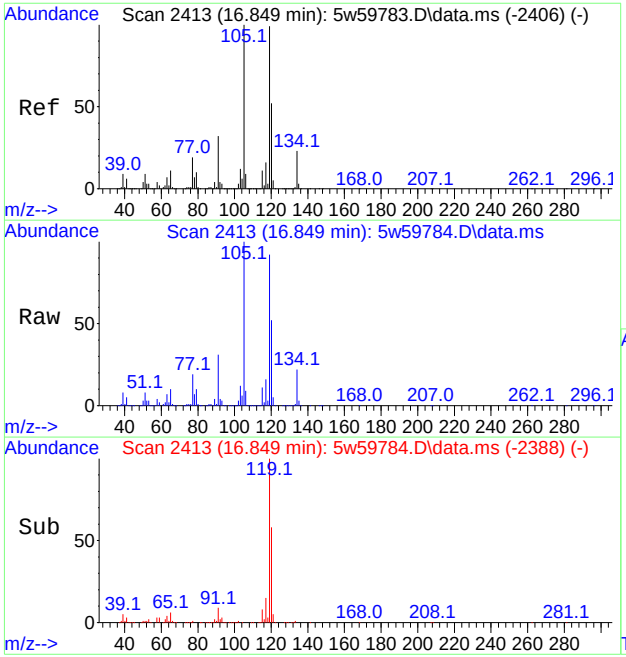


#100
sec-BUTYLBENZENE
Concen: 22.03 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1236753

Ion	Ratio	Lower	Upper
134	100		
105	509.0	502.5	562.5

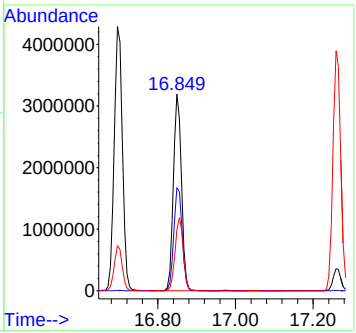


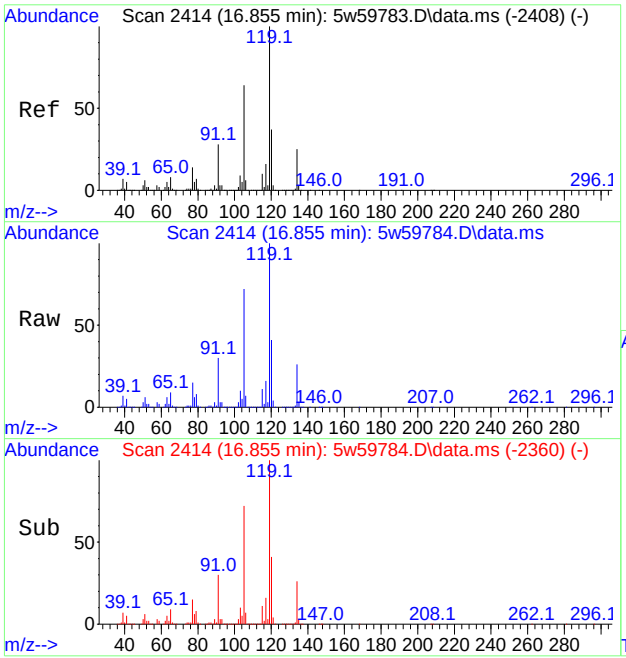


#101
1,2,3-TRIMETHYLBENZENE
Concen: 21.34 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4652009

Ion	Ratio	Lower	Upper
105	100		
120	54.4	23.5	83.5
91	37.5	7.4	67.4

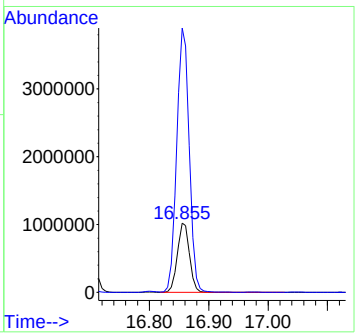


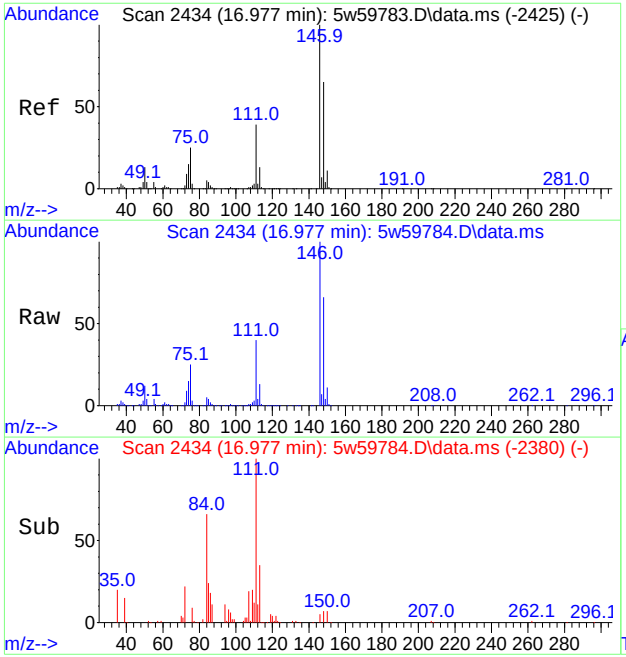


#102
p-ISOPROPYLTOLUENE
Concen: 22.76 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1464768

Ion	Ratio	Lower	Upper
134	100		
119	393.7	377.7	437.7

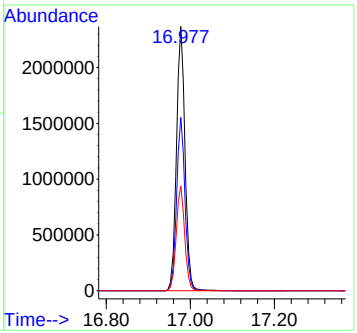


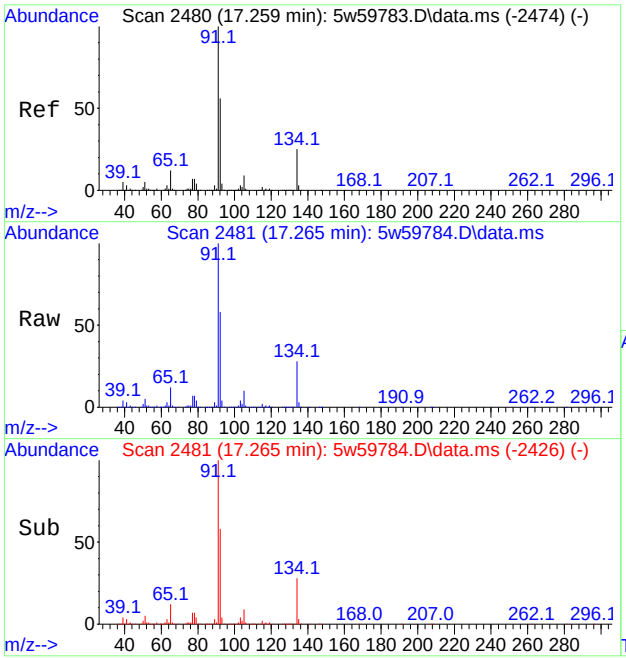


#103
o-DICHLOROBENZENE
Concen: 20.30 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3353483

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.3	94.3
111	39.4	9.2	69.2

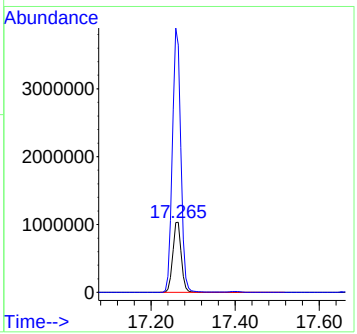


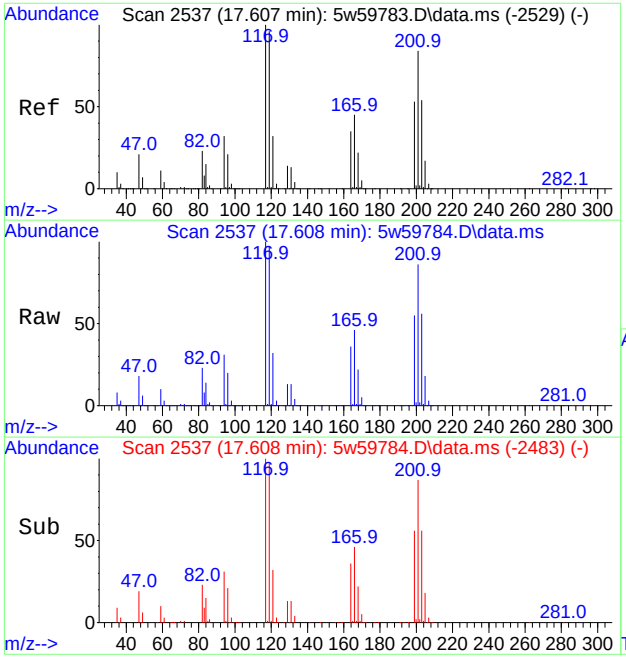


#104
n-BUTYLBENZENE
Concen: 24.56 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1447206

Ion	Ratio	Lower	Upper
134	100		
91	376.5	363.1	423.1

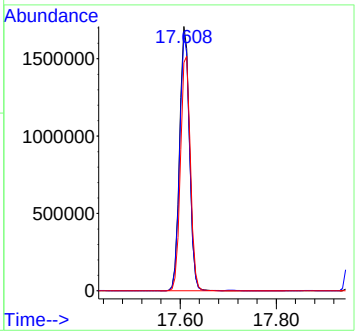


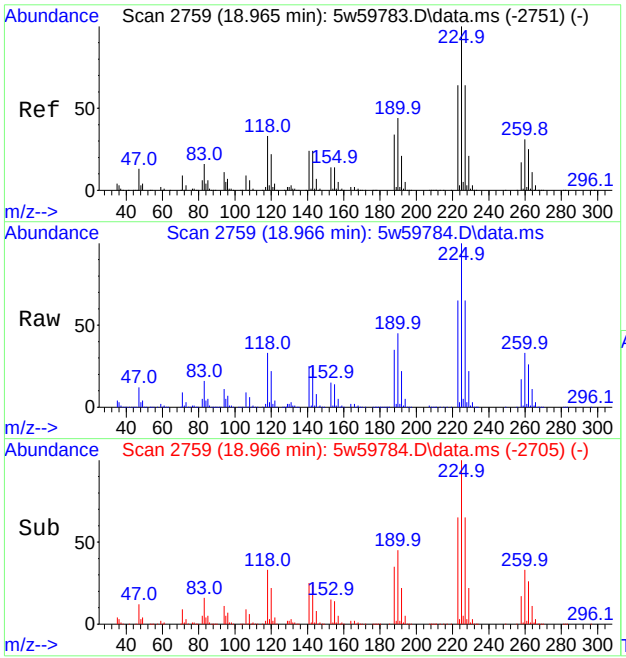


#105
HEXACHLOROETHANE
Concen: 22.06 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2435886

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	89.0	61.1	113.5

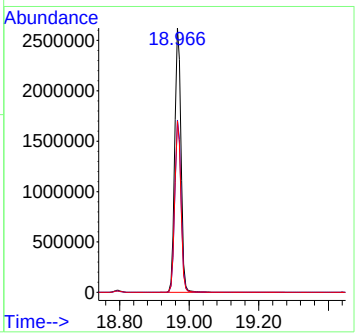


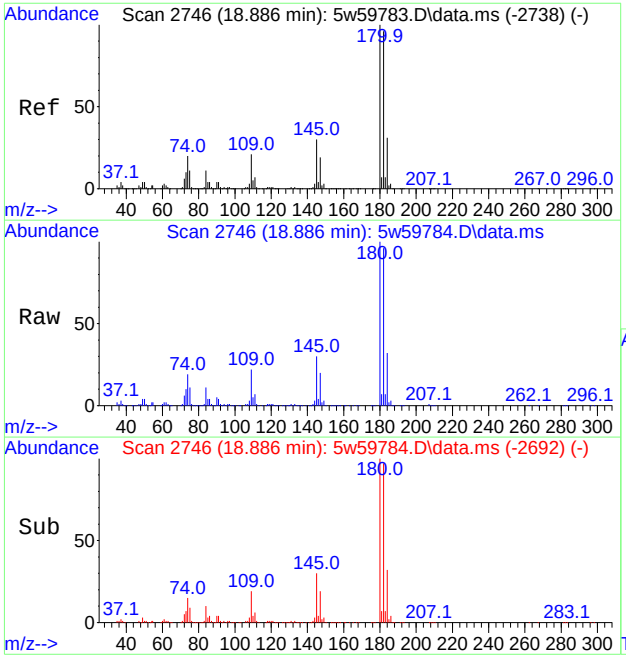


#106
HEXACHLOROBUTADIENE
Concen: 18.79 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:225 Resp: 3259497

Ion	Ratio	Lower	Upper
225	100		
227	64.9	34.2	94.2
223	64.0	33.3	93.3

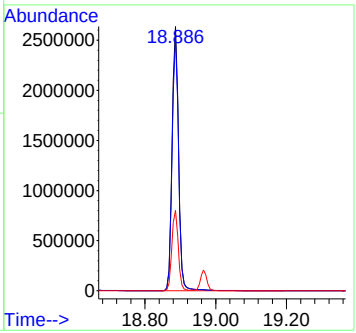


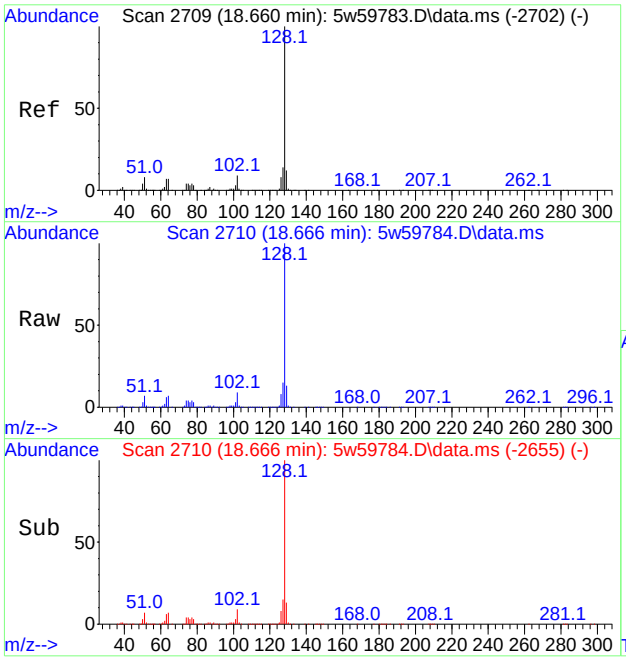


#107
1,2,4-TRICHLOROBENZENE
Concen: 28.94 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:180 Resp: 3337105

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	30.1	0.0	59.4

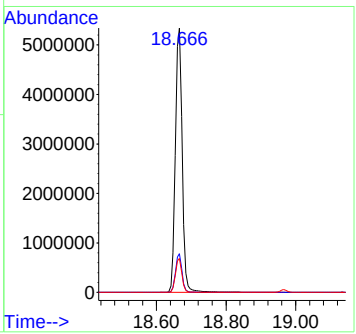


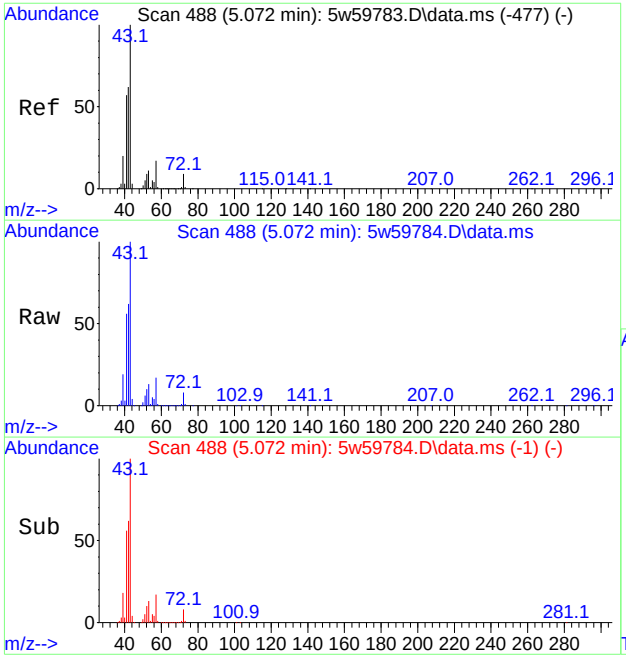


#108
NAPHTHALENE
Concen: 26.85 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:128 Resp: 7329968

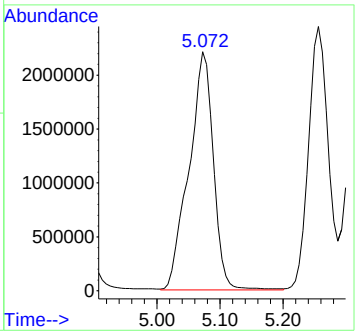
Ion	Ratio	Lower	Upper
128	100		
127	14.0	0.0	43.3
129	12.2	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 16.52 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:TIC Resp: 5936529



Manual Integration Approval Summary

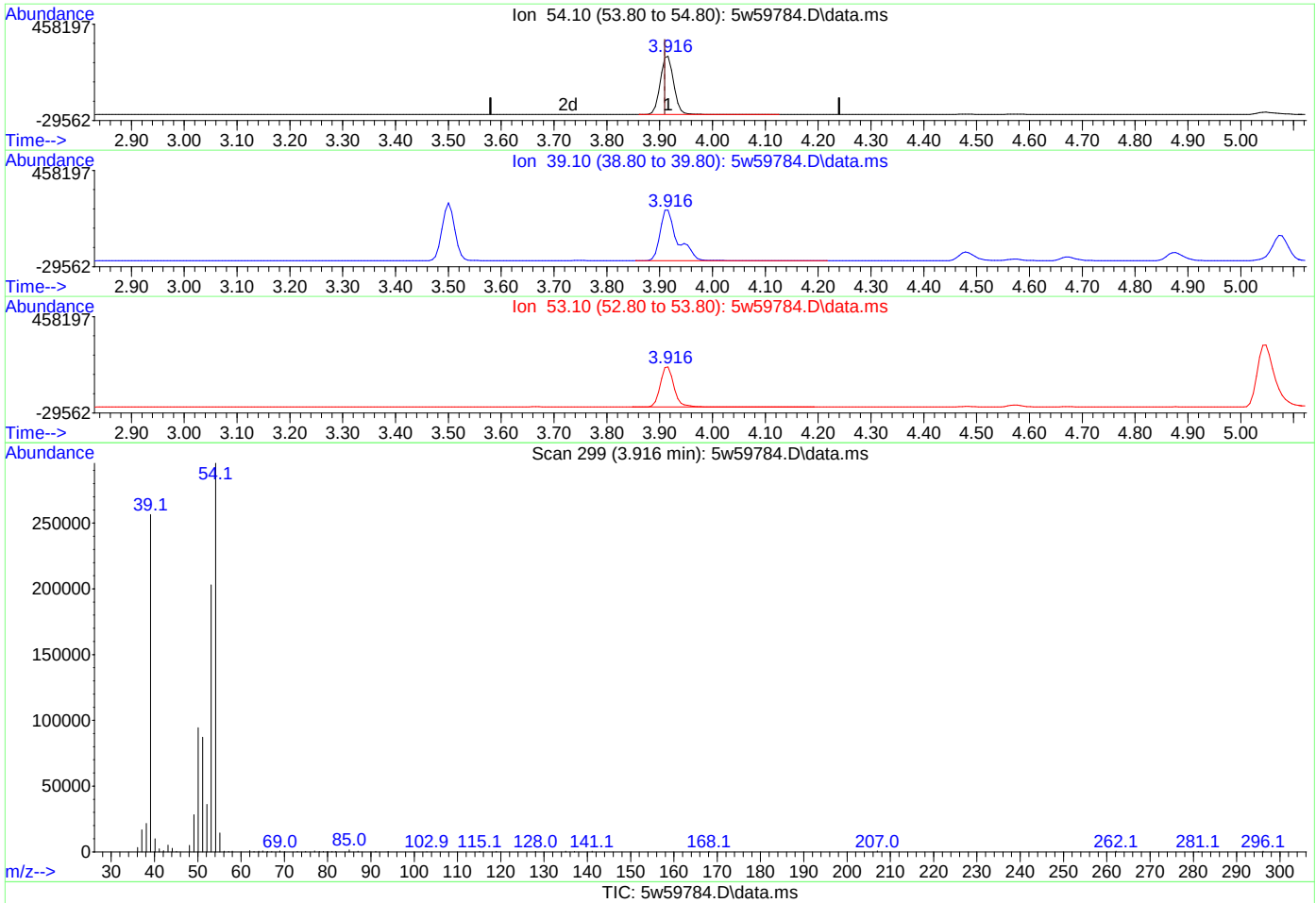
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59784.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:12 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		3.92	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV

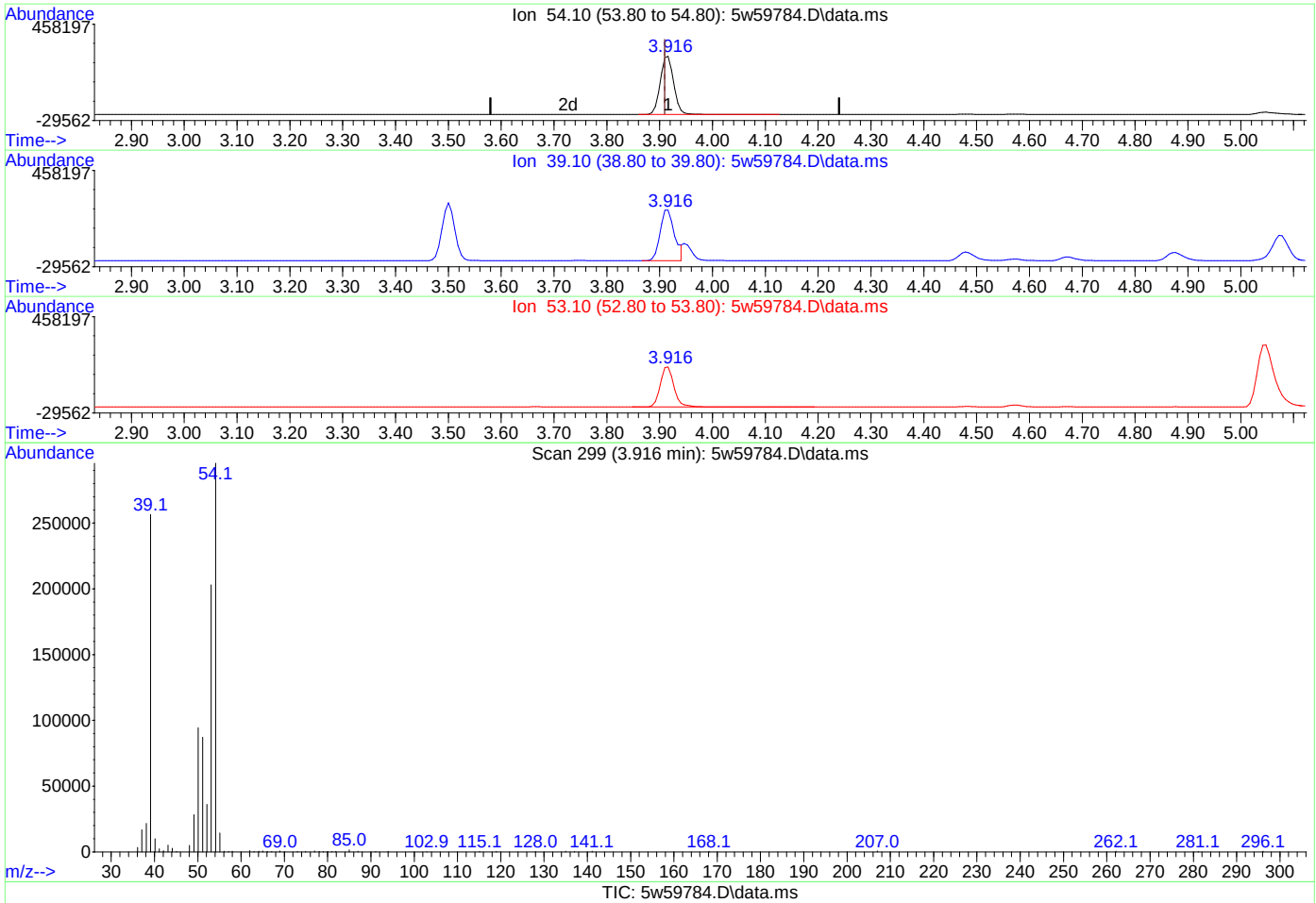
response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	113.35
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV m

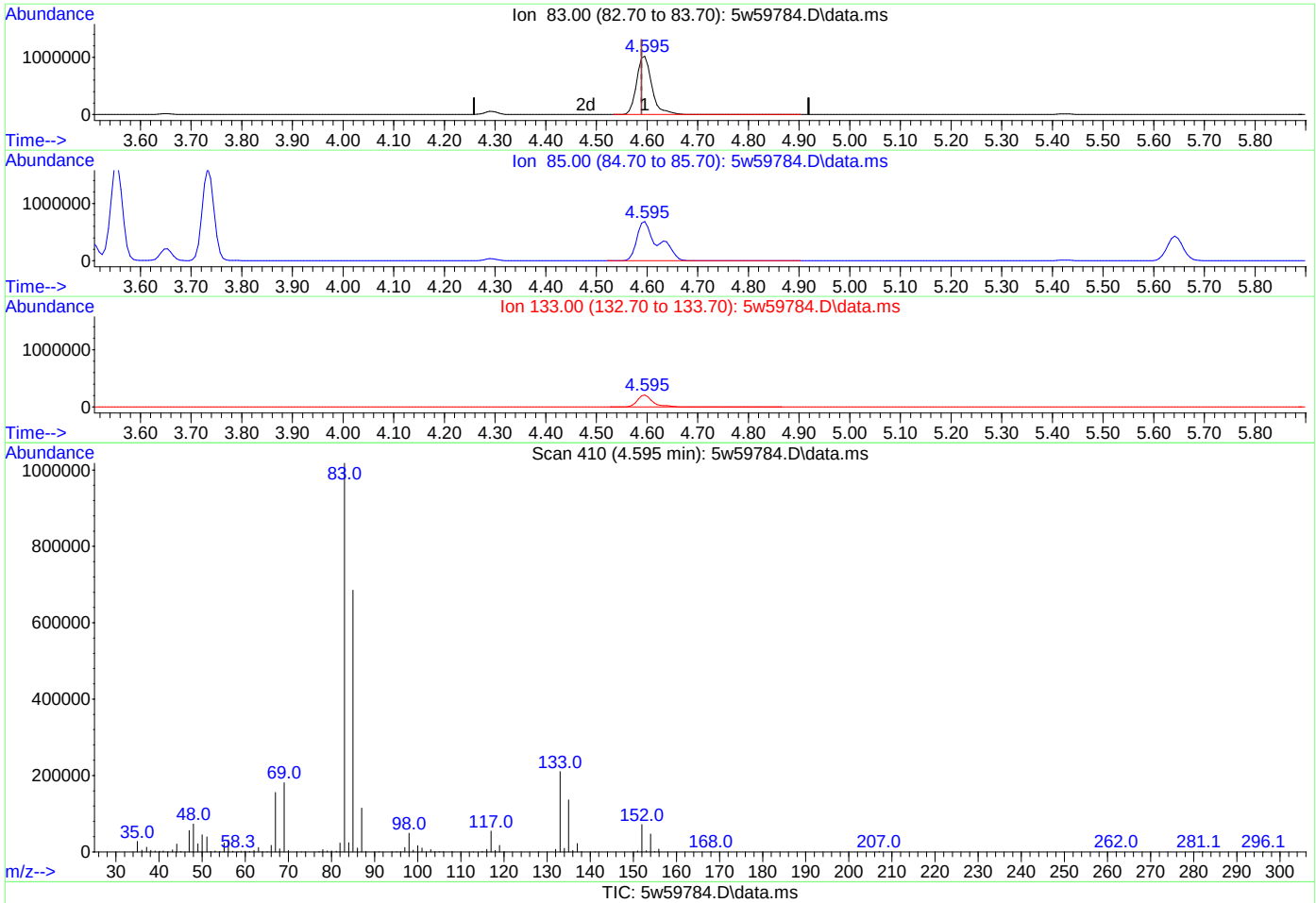
response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	93.33
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV

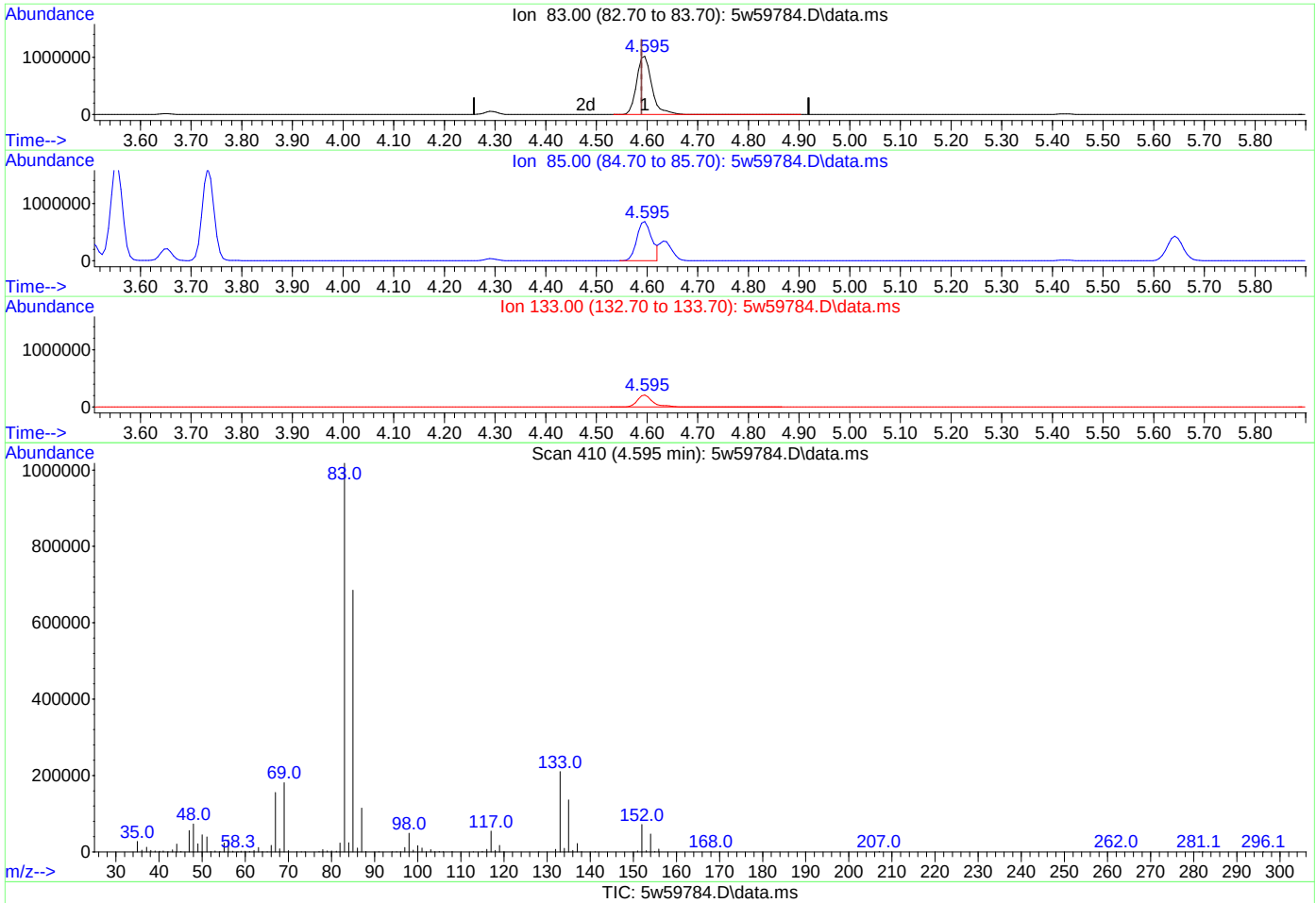
response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.23#
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV m

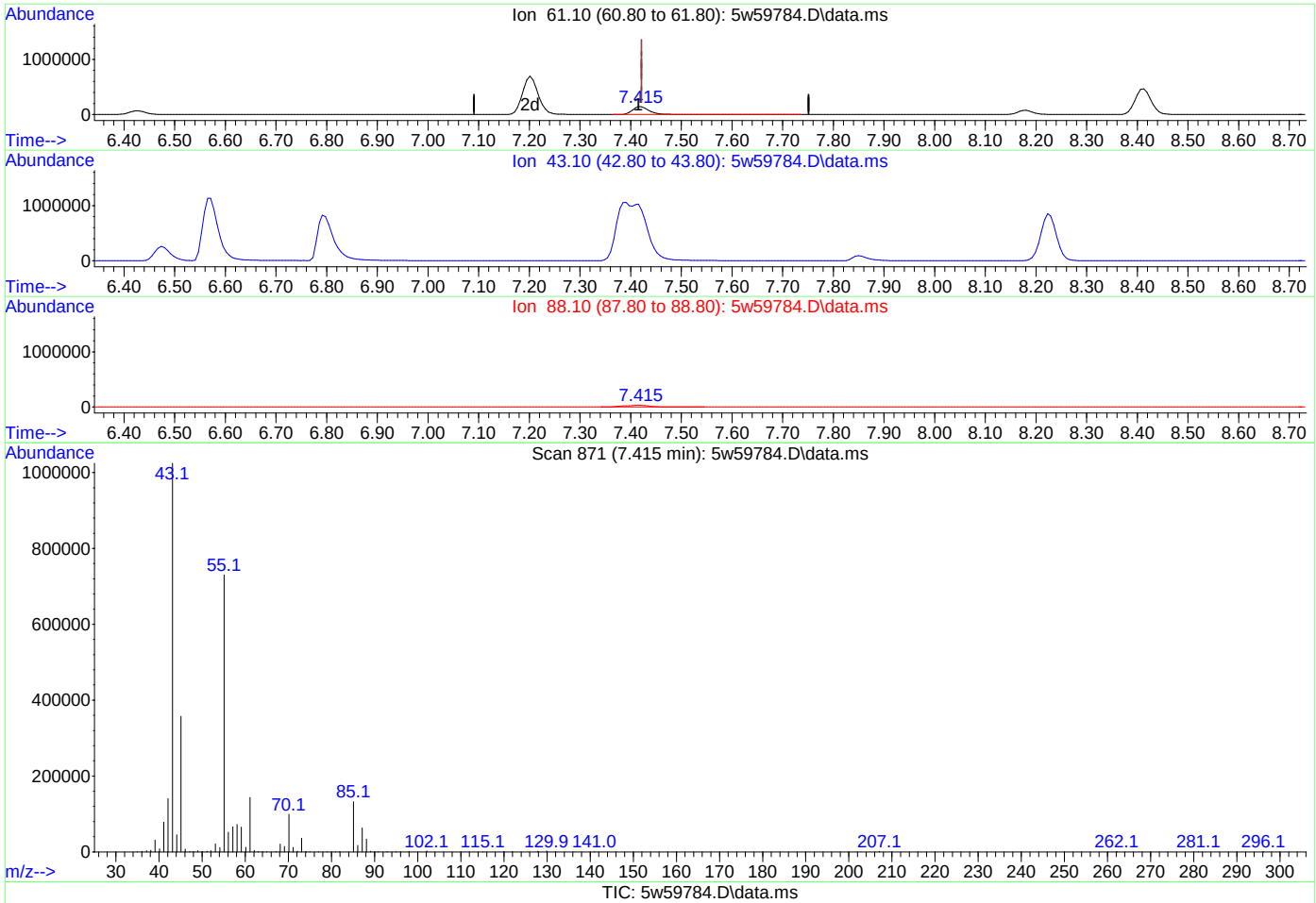
response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	66.65
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV

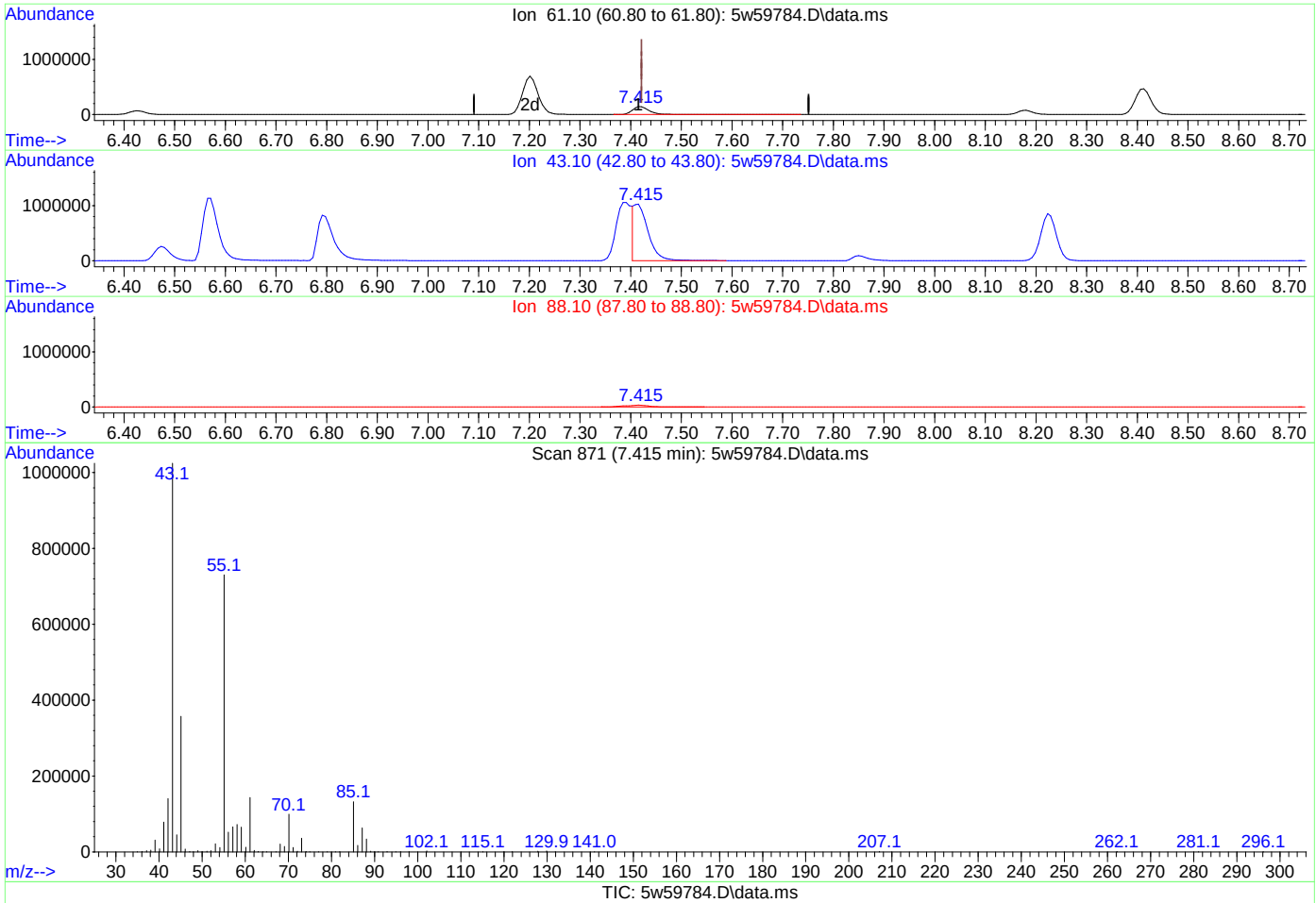
response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV m

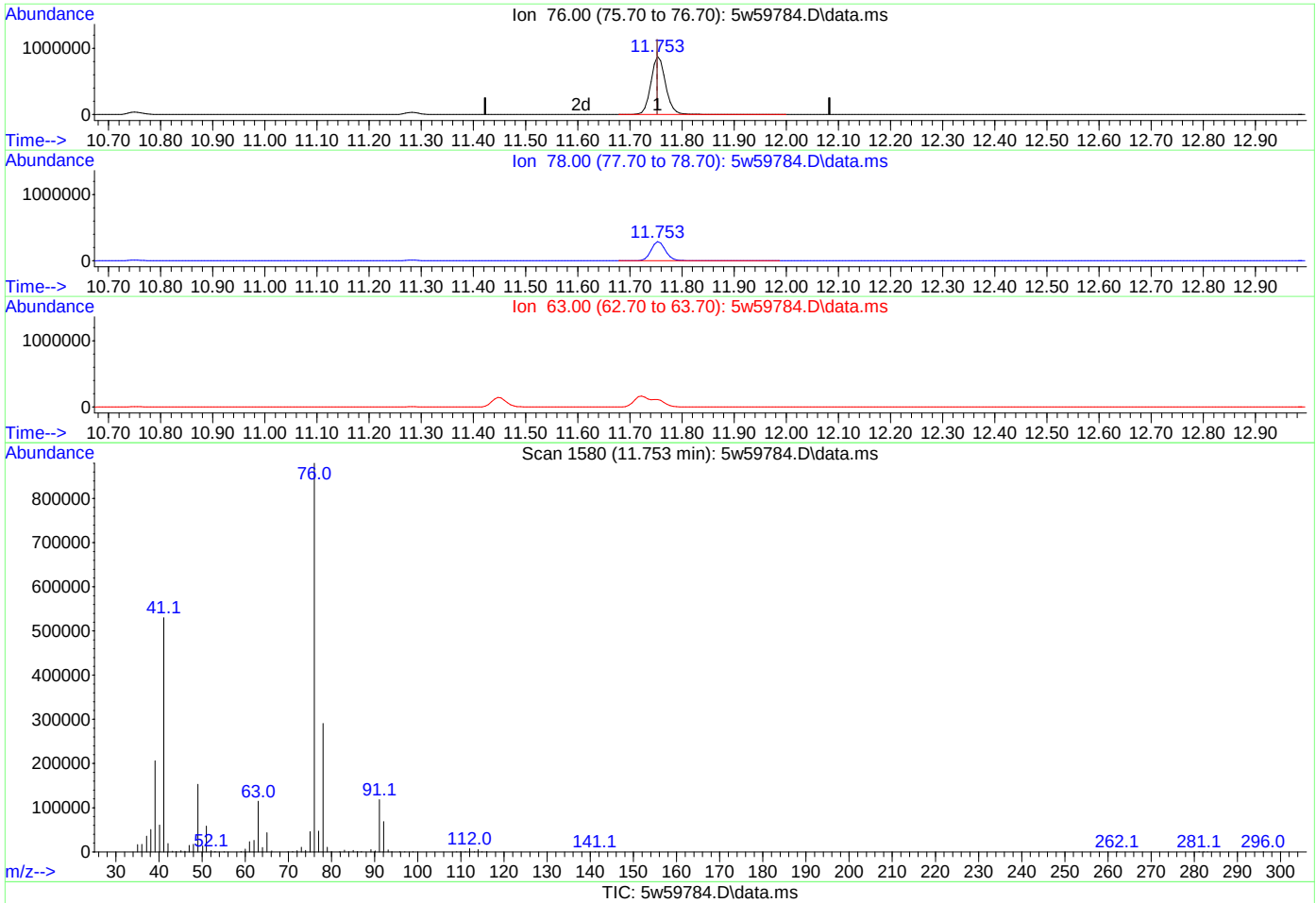
response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	580.22
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV

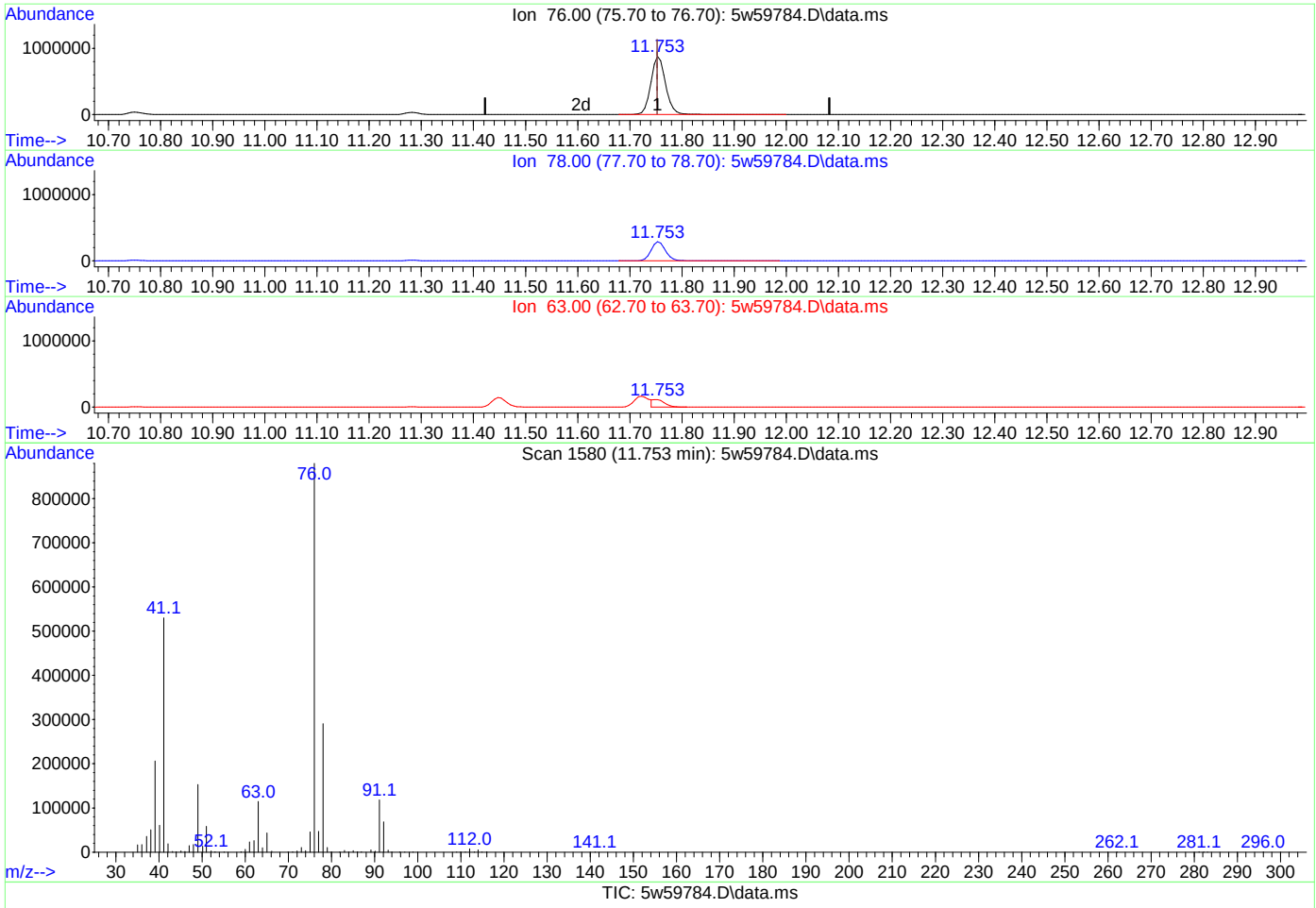
response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV m

response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	10.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	458599	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1942721	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1247352	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	458722	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1398246	9.05	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.50%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	510693	9.37	PPBV	100
3) FREON 152A	3.445	65	1313214	37.53	PPBV	97
4) CHLORODIFLUOROMETHANE	3.476	67	606229	38.04	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	3030922	39.97	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.549	85	5182161	34.55	PPBV	98
7) PROPYLENE	3.500	41	1339768	35.21	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	3864501	29.06	PPBV	99
9) FREON 114	3.733	85	4558389	35.25	PPBV	98
10) CHLOROMETHANE	3.665	52	502015	31.88	PPBV	97
11) VINYL CHLORIDE	3.818	62	1652876	33.07	PPBV	99
12) 1,3-BUTADIENE	3.910	54	986783	29.91	PPBV	99
13) n-BUTANE	3.947	43	1549667	26.23	PPBV	99
14) BROMOMETHANE	4.106	94	1791748	36.10	PPBV	100
15) CHLOROETHANE	4.228	64	730406	32.03	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	3504203	30.34	PPBV	99
17) ACETONITRILE	4.479	41	862154	25.50	PPBV	99
18) ACROLEIN	4.571	56	516183	28.89	PPBV	95
19) FREON 123	4.589	83	3786151m	32.62	PPBV	
20) FREON 123A	4.632	117	2385952	33.24	PPBV	94
21) TRICHLOROFLUOROMETHANE	4.791	101	4286330	26.66	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	3091991	27.22	PPBV	99
23) ACETONE	4.669	58	611815	29.72	PPBV	97
24) PENTANE	5.072	42	1748442	28.85	PPBV	97
25) IODOMETHANE	5.256	142	6000517	39.54	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	1913922	35.49	PPBV	96
27) CARBON DISULFIDE	5.672	76	5159120	36.29	PPBV	98
28) ETHANOL	4.320	45	528233	23.67	PPBV	99
29) BROMOETHENE	4.479	106	1797717	37.63	PPBV	100
30) ACRYLONITRILE	5.042	52	1271597	36.54	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	1660696	34.35	PPBV	97
32) 3-CHLOROPROPENE	5.525	76	861126	38.85	PPBV	93
33) FREON 113	5.641	151	3469148	36.66	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2022318	36.73	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.372	59	3394797	29.74	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	5102873	37.67	PPBV	99
37) TETRAHYDROFURAN	7.844	72	801341	44.15	PPBV	98
38) HEXANE	7.385	57	2879156	37.98	PPBV	93
39) VINYL ACETATE	6.571	86	363965	40.72	PPBV #	86
40) 1,1-DICHLOROETHANE	6.424	63	3644940	36.44	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	879599	46.66	PPBV	90
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2133694	37.52	PPBV	98
43) DIISOPROPYL ETHER	7.391	59	905463	43.95	PPBV #	83
44) ETHYL ACETATE	7.415	61	671399m	43.14	PPBV	
45) METHYL ACRYLATE	7.409	55	3595052	40.28	PPBV	97
46) CHLOROFORM	7.483	83	4216969	36.42	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	3428957	38.76	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	4473116	35.48	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	4942966	35.62	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	3028960	37.08	PPBV		99
52)	BENZENE	8.859	78	5773385	44.75	PPBV		100
53)	CYCLOHEXANE	9.110	84	2282258	44.64	PPBV		98
54)	2,3-DIMETHYLPENTANE	9.355	71	1205121	46.80	PPBV		95
55)	TRICHLOROETHYLENE	9.893	95	2886125	41.87	PPBV		99
56)	1,2-DICHLOROPROPANE	9.654	63	2329113	42.47	PPBV		99
57)	DIBROMOMETHANE	9.636	174	3208165	42.48	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	4517787	46.25	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	4951368	40.63	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	8459039	38.93	PPBV		97
61)	1,4-DIOXANE	9.893	88	1215269	45.35	PPBV	#	1
62)	HEPTANE	10.187	43	2988992	37.77	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	1989625	49.92	PPBV		98
64)	METHYL ISOBUTYL KETONE	10.786	58	1921879	47.23	PPBV		92
65)	cis-1,3-DICHLOROPROPENE	10.756	75	4023307	47.39	PPBV		92
66)	TOLUENE	11.722	92	4414753	47.83	PPBV		97
67)	1,3-DICHLOROPROPANE	11.759	76	3397591m	44.02	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	3536223	45.59	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.453	83	2422259	47.73	PPBV		100
71)	2-HEXANONE	12.004	58	2753205	43.59	PPBV		91
72)	ETHYL METHACRYLATE	12.028	69	3484828	43.20	PPBV		92
73)	TETRACHLOROETHYLENE	12.878	164	3370251	35.84	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	5622668	35.57	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	4750806	40.93	PPBV		100
76)	OCTANE	12.750	43	4235557	32.56	PPBV		94
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	3854037	37.26	PPBV		100
78)	CHLOROBENZENE	13.588	112	6101033	35.87	PPBV		99
79)	ETHYLBENZENE	13.986	91	9323124	38.31	PPBV		96
80)	m,p-XYLENE	14.188	106	7385992	79.24	PPBV		91
81)	o-XYLENE	14.683	106	3531781	41.16	PPBV		95
82)	STYRENE	14.573	104	5945197	45.55	PPBV		99
83)	NONANE	14.940	43	4120325	31.95	PPBV		94
84)	BROMOFORM	14.255	173	6063084	37.29	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	5834633	38.41	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	4239056	33.30	PPBV		98
88)	ISOPROPYLBENZENE	15.301	105	10105051	35.54	PPBV		96
89)	BROMOBENZENE	15.381	77	5092227	34.24	PPBV		97
90)	2-CHLOROTOLUENE	15.772	126	2919479	38.46	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	2929586	38.73	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	9932010	38.91	PPBV		95
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	8308295	35.08	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.200	118	4732251	41.57	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1826681	37.13	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	7744703	33.90	PPBV		97
97)	m-DICHLOROBENZENE	16.586	146	6361294	34.54	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	7942485	38.06	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	6796416	35.68	PPBV		98
100)	sec-BUTYLBENZENE	16.702	134	2382473	37.89	PPBV	#	76
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	7842082	32.09	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	2537472	35.07	PPBV	#	85
103)	o-DICHLOROBENZENE	16.983	146	6444852	34.67	PPBV		98
104)	n-BUTYLBENZENE	17.265	134	2846318	43.05	PPBV	#	78
105)	HEXACHLOROETHANE	17.614	117	4455103	36.00	PPBV		97
106)	HEXACHLOROBUTADIENE	18.972	225	5455879	28.29	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.886	180	6383531	48.55	PPBV		99
108)	NAPHTHALENE	18.666	128	12695949	41.10	PPBV		93
110)	TVHC as equiv Pentane	5.072	TIC	11631459	33.13	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

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

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

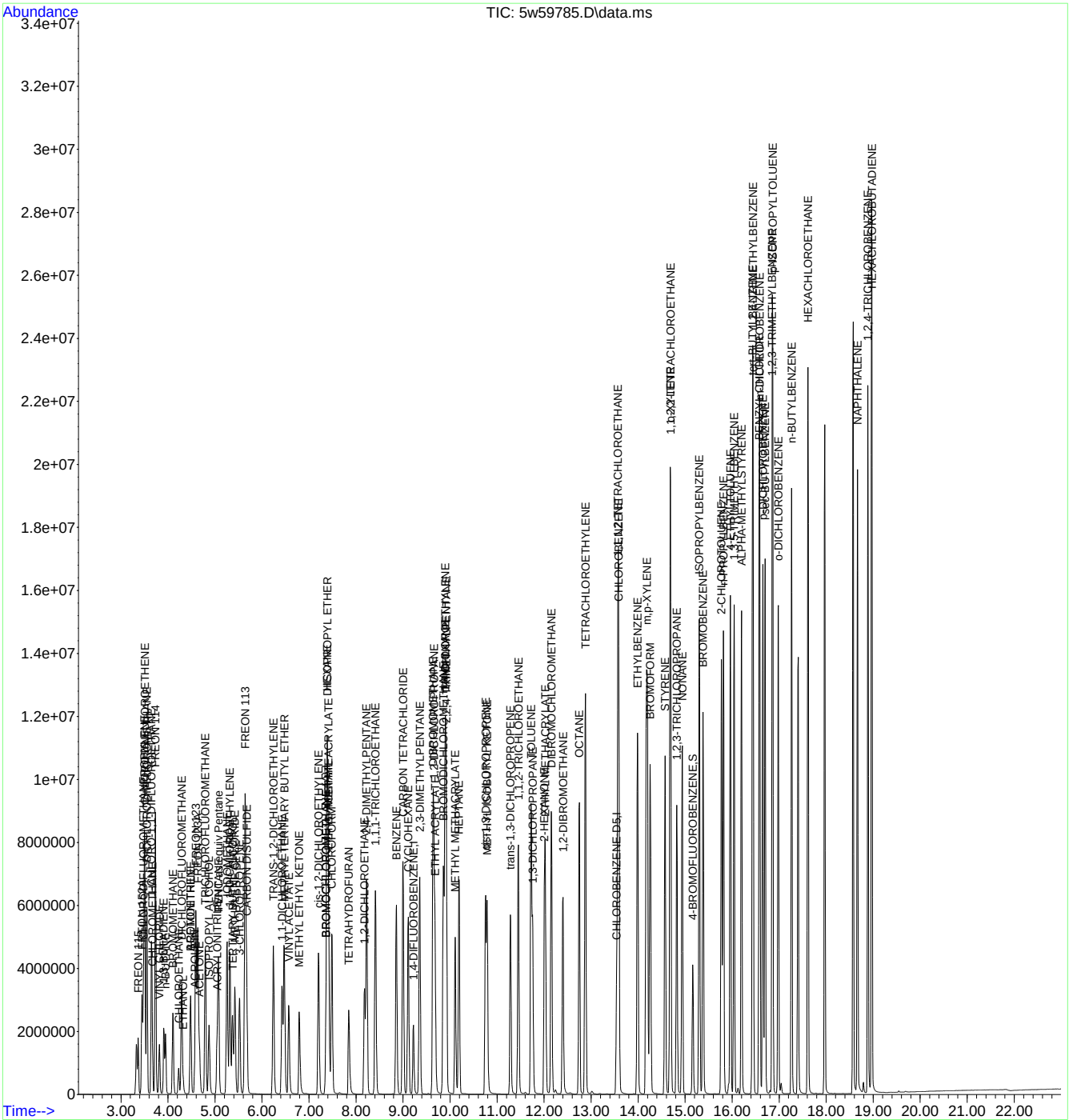
7.7.8

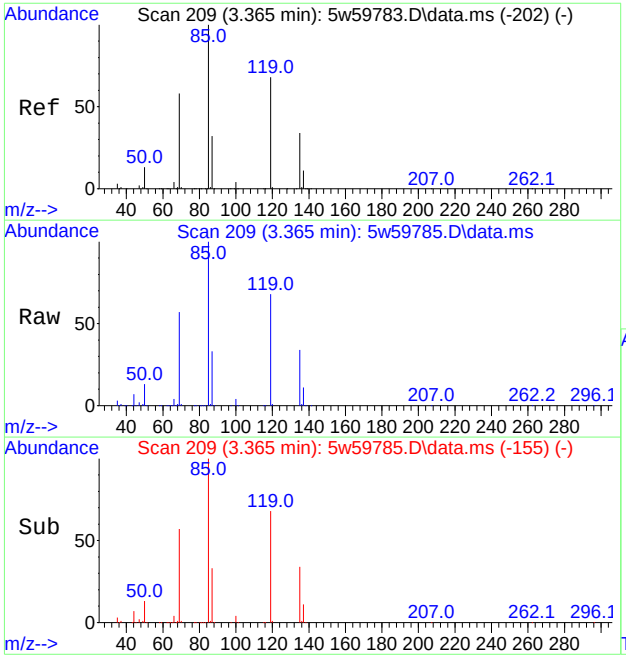
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

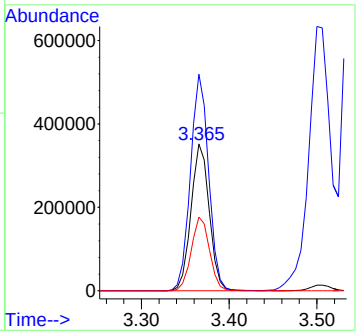


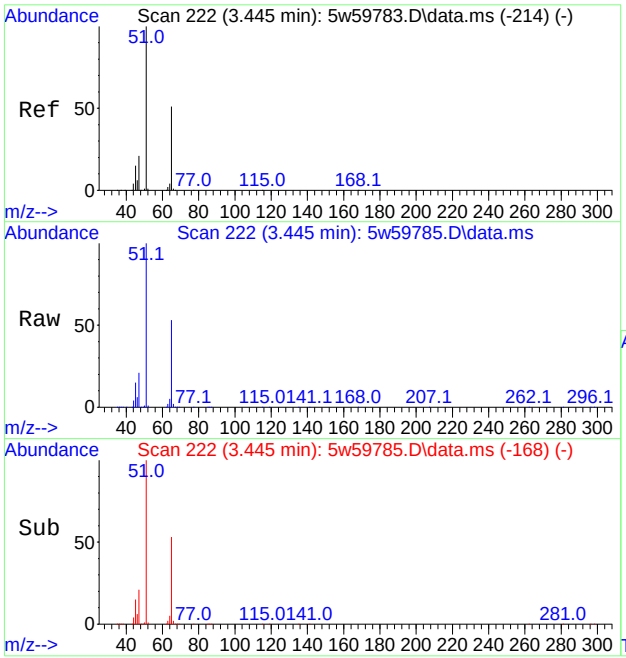


#2
FREON 115
Concen: 9.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:119 Resp: 510693

Ion	Ratio	Lower	Upper
119	100		
85	146.8	116.2	176.2
135	50.3	20.6	80.6

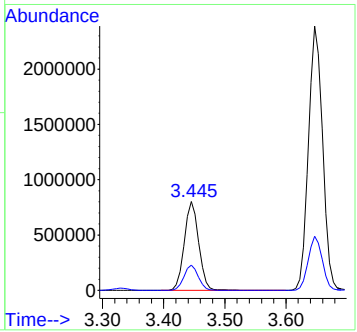


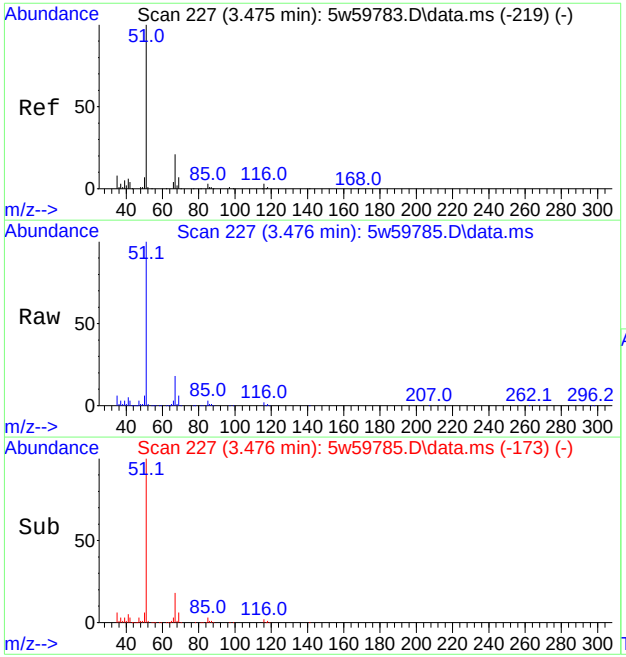


#3
FREON 152A
Concen: 37.53 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 1313214

Ion	Ratio	Lower	Upper
65	100		
45	28.4	0.0	60.0

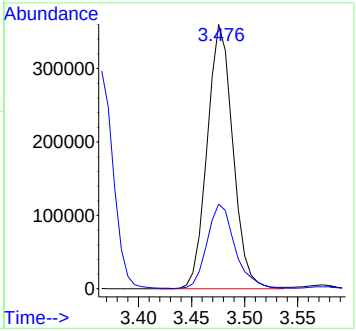


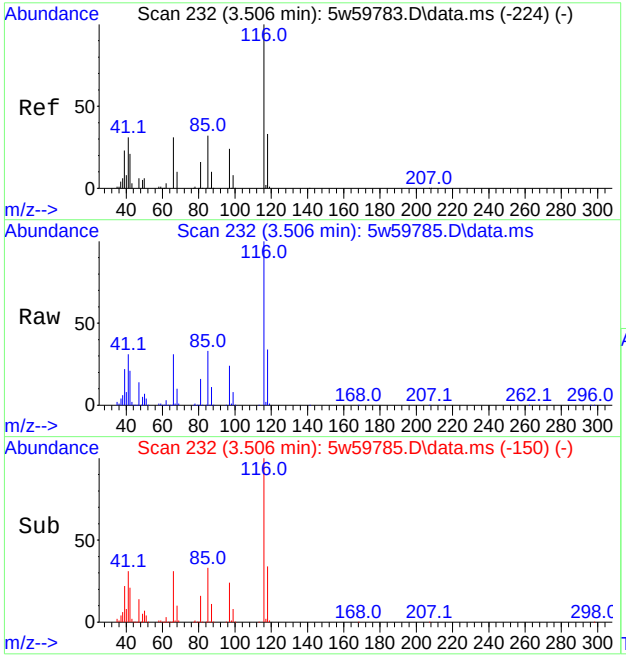


#4
CHLORODIFLUOROMETHANE
Concen: 38.04 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 606229

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

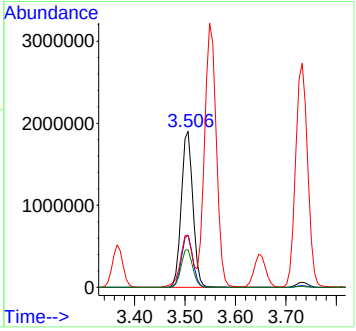


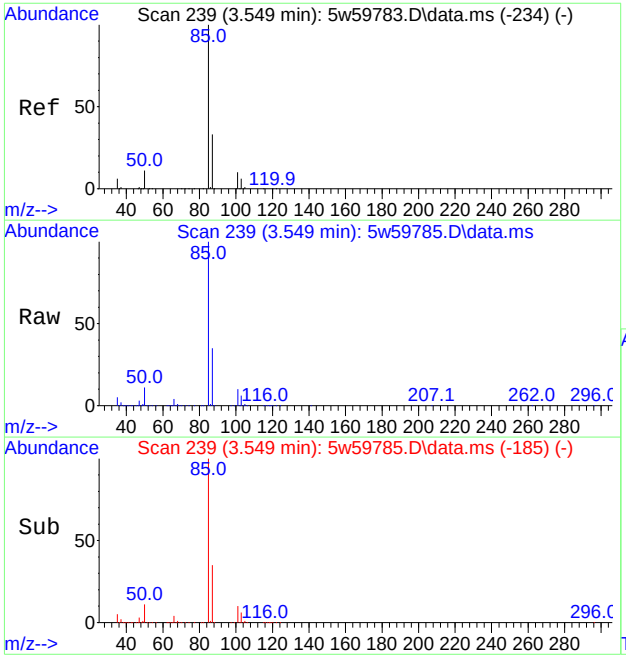


#5
CHLOROTRIFLUOROETHENE
Concen: 39.97 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:116 Resp: 3030922

Ion	Ratio	Lower	Upper
116	100		
118	33.3	22.9	42.5
85	37.1	23.7	44.1
97	24.2	17.0	31.6

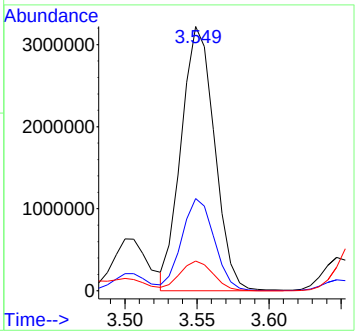


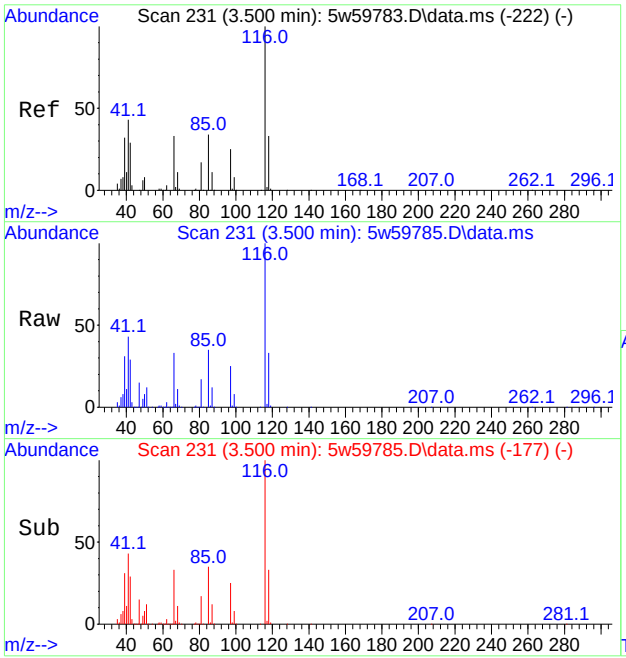


#6
DICHLORODIFLUOROMETHANE
Concen: 34.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 5182161

Ion	Ratio	Lower	Upper
85	100		
87	34.2	2.5	62.5
50	11.3	0.0	41.7

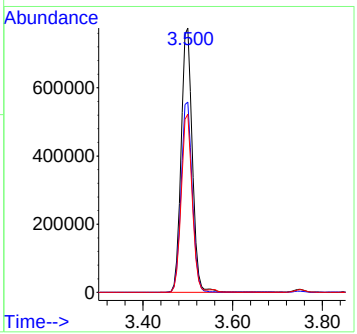


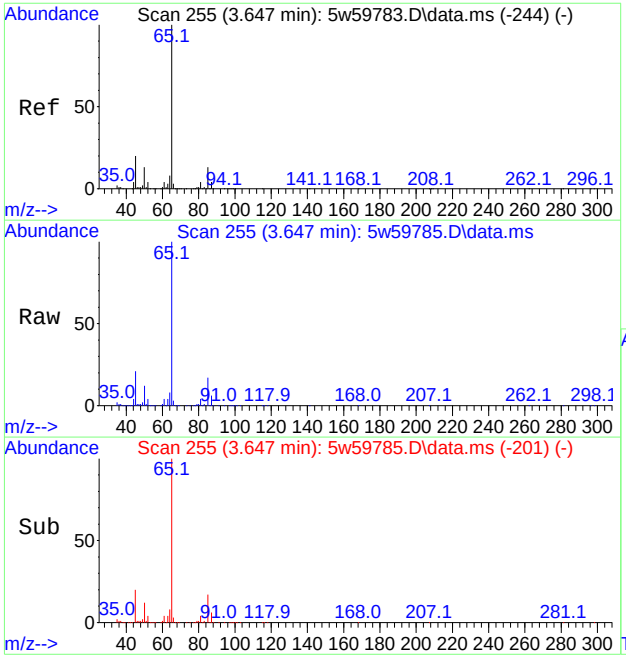


#7
PROPYLENE
Concen: 35.21 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 1339768

Ion	Ratio	Lower	Upper
41	100		
39	72.3	45.1	105.1
42	67.0	36.3	96.3

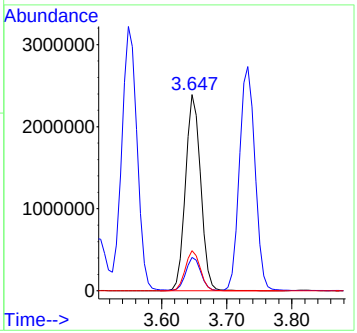


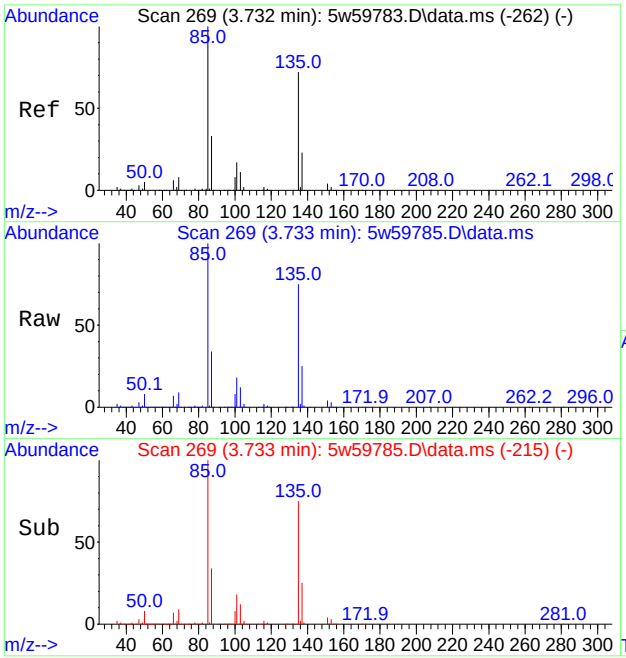


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 29.06 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 3864501

Ion	Ratio	Lower	Upper
65	100		
85	16.9	11.5	21.3
45	20.4	14.0	26.0

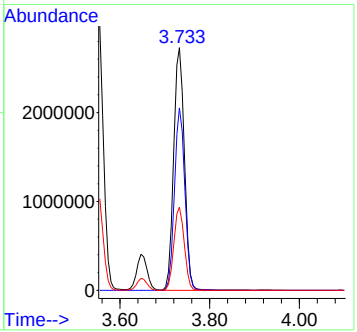


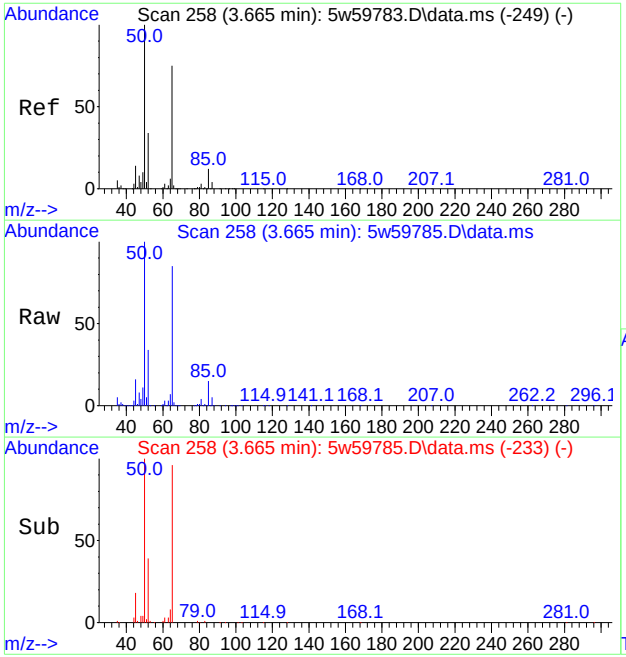


#9
FREON 114
Concen: 35.25 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 4558389

Ion	Ratio	Lower	Upper
85	100		
135	73.1	40.5	100.5
87	33.6	3.0	63.0

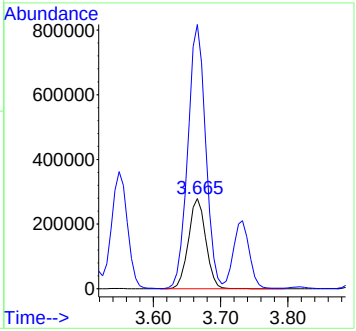


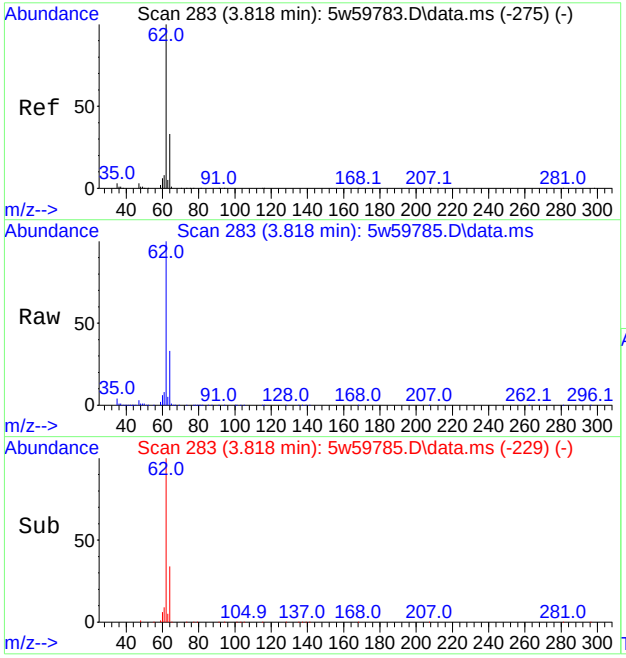


#10
CHLOROMETHANE
Concen: 31.88 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 502015

Ion	Ratio	Lower	Upper
52	100		
50	292.3	267.9	327.9

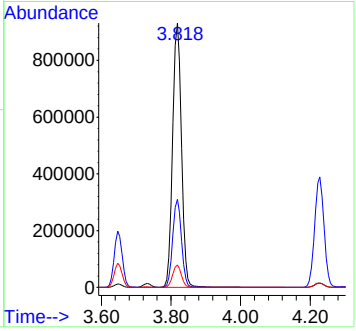


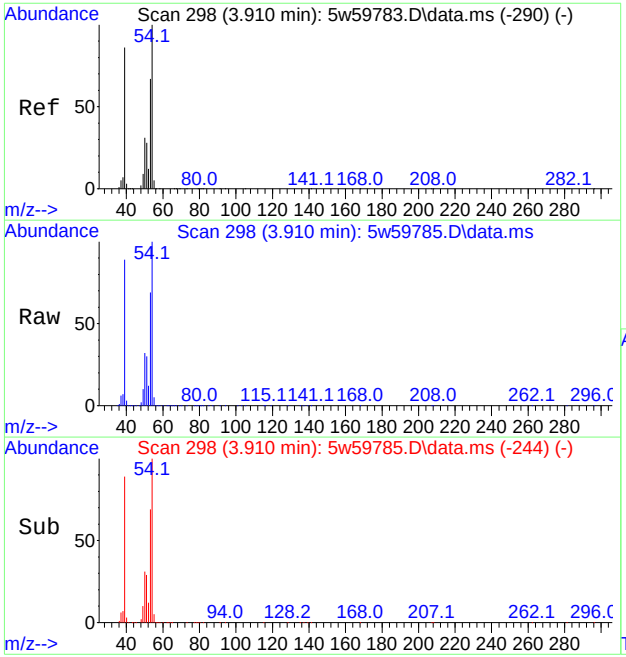


#11
VINYL CHLORIDE
Concen: 33.07 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 1652876

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

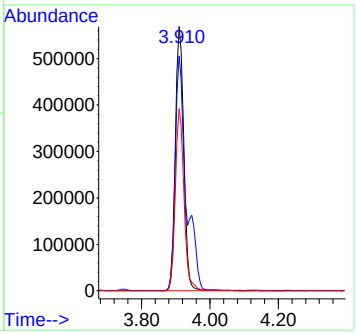


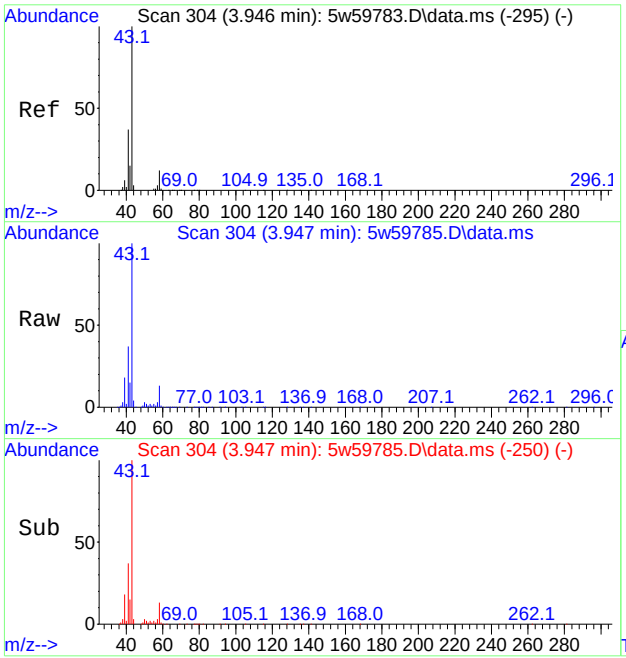


#12
1,3-BUTADIENE
Concen: 29.91 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 54 Resp: 986783

Ion	Ratio	Lower	Upper
54	100		
39	113.9	82.0	142.0
53	70.3	40.2	100.2

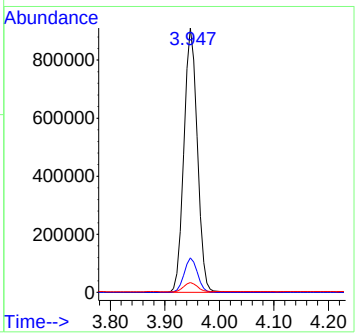


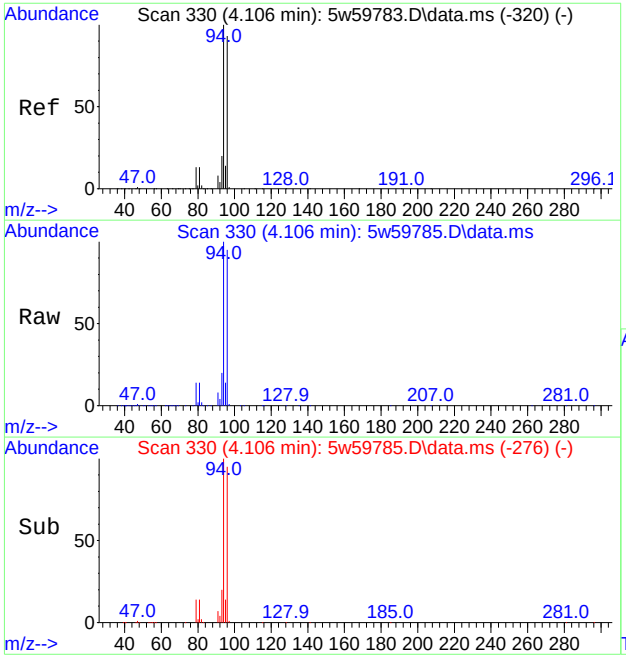


#13
n-BUTANE
Concen: 26.23 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 1549667

Ion	Ratio	Lower	Upper
43	100		
58	12.9	0.0	42.6
44	4.1	0.0	34.9

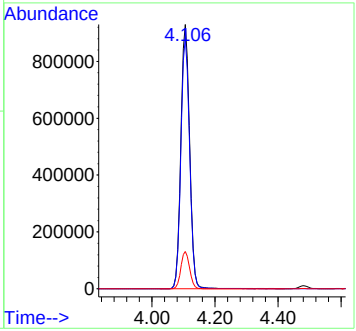


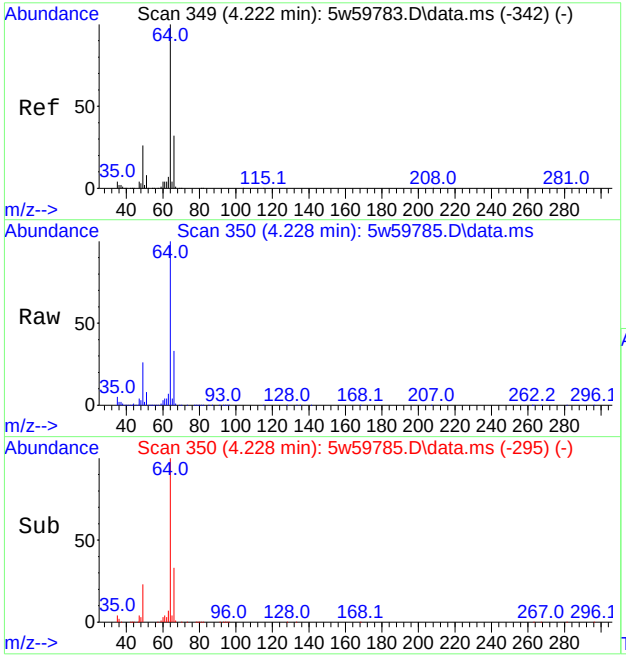


#14
BROMOMETHANE
Concen: 36.10 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 94 Resp: 1791748

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.1	0.0	44.1

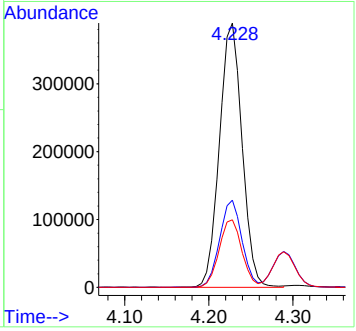


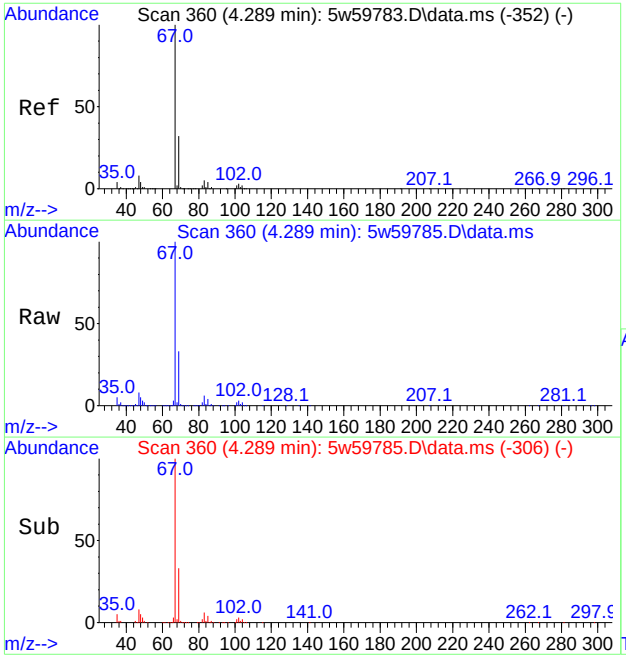


#15
CHLOROETHANE
Concen: 32.03 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 64 Resp: 730406

Ion	Ratio	Lower	Upper
64	100		
66	32.5	3.1	63.1
49	25.7	0.0	55.3

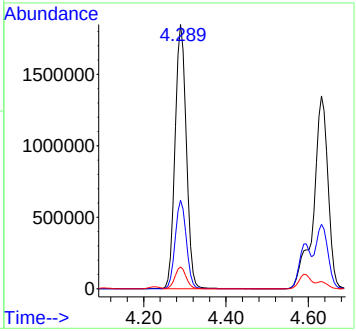


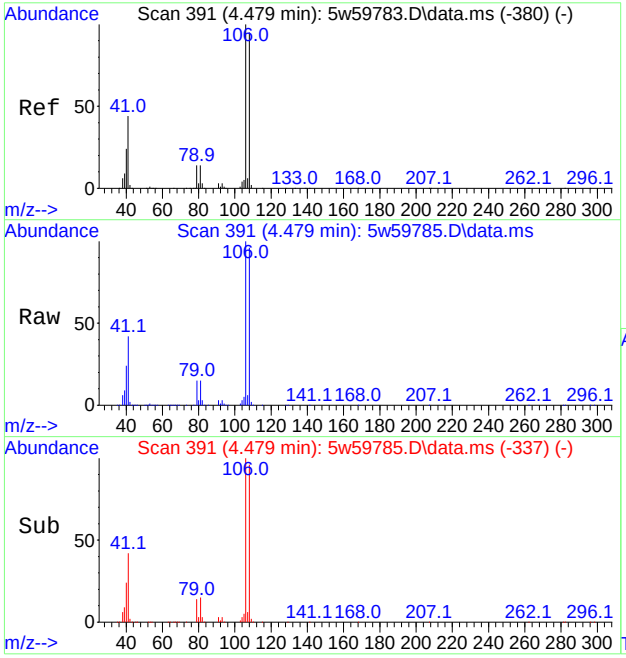


#16
DICHLOROFLUOROMETHANE
Concen: 30.34 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 3504203

Ion	Ratio	Lower	Upper
67	100		
69	33.3	22.7	42.3
47	8.3	5.6	10.4

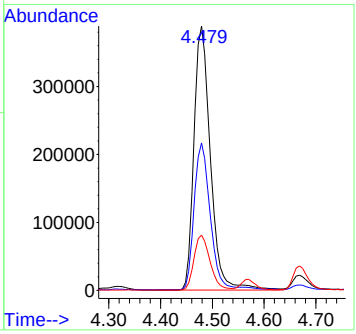


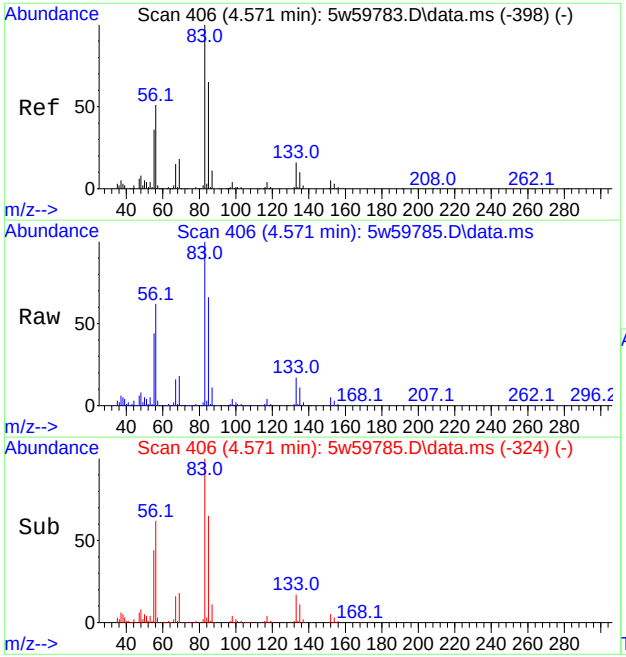


#17
ACETONITRILE
Concen: 25.50 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 862154

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

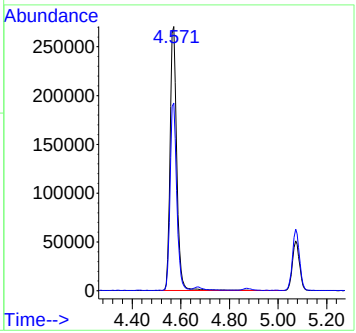


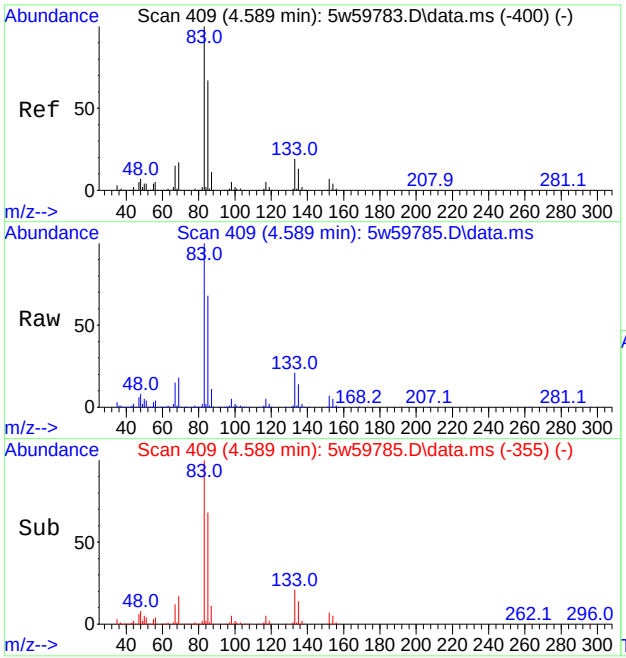


#18
ACROLEIN
Concen: 28.89 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 56 Resp: 516183

Ion	Ratio	Lower	Upper
56	100		
55	70.8	46.6	86.6

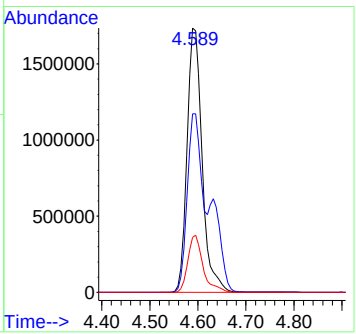


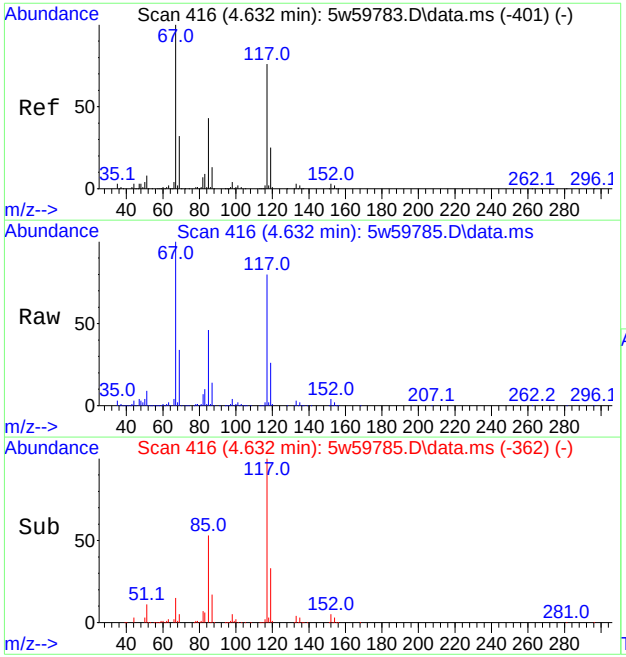


#19
FREON 123
Concen: 32.62 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 3786151

Ion	Ratio	Lower	Upper
83	100		
85	63.6	34.0	94.0
133	21.9	0.0	50.7

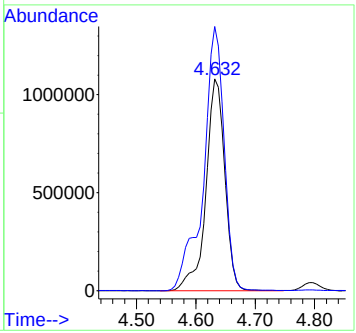


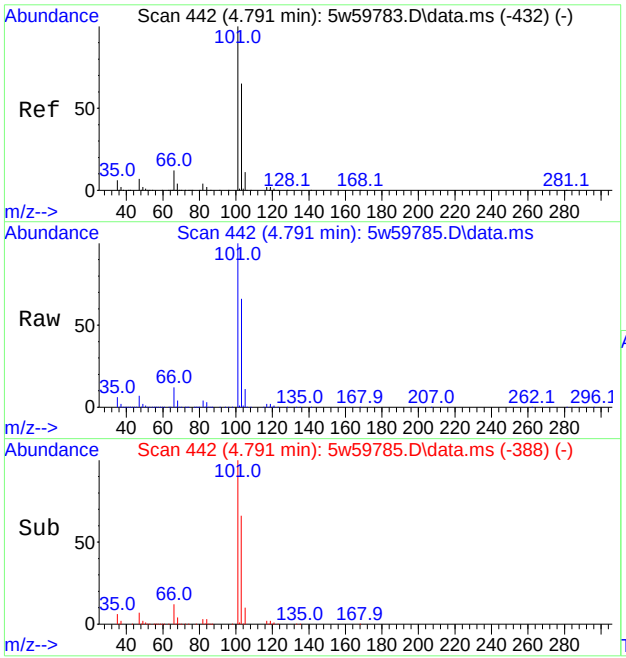


#20
FREON 123A
Concen: 33.24 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 2385952

Ion	Ratio	Lower	Upper
117	100		
67	137.4	114.6	174.6

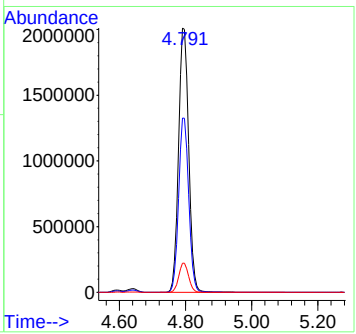


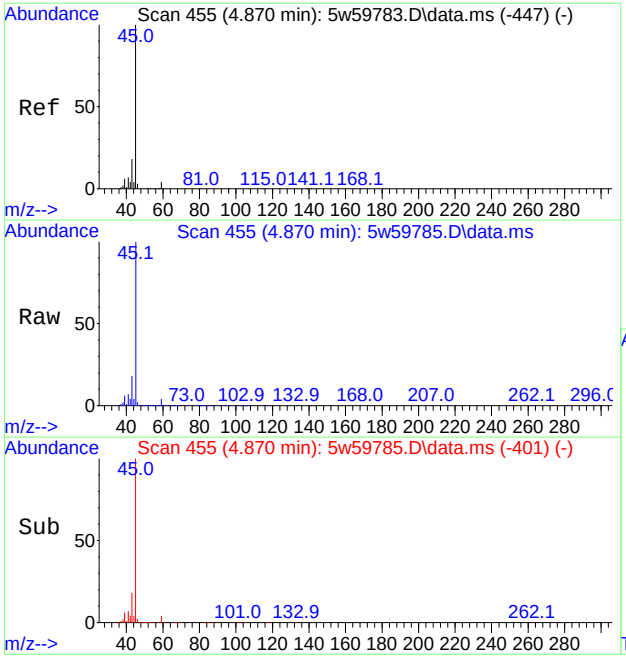


#21
TRICHLOROFLUOROMETHANE
Concen: 26.66 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:101 Resp: 4286330

Ion	Ratio	Lower	Upper
101	100		
103	65.8	35.0	95.0
105	10.9	0.0	40.7

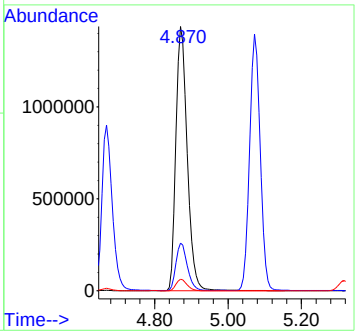


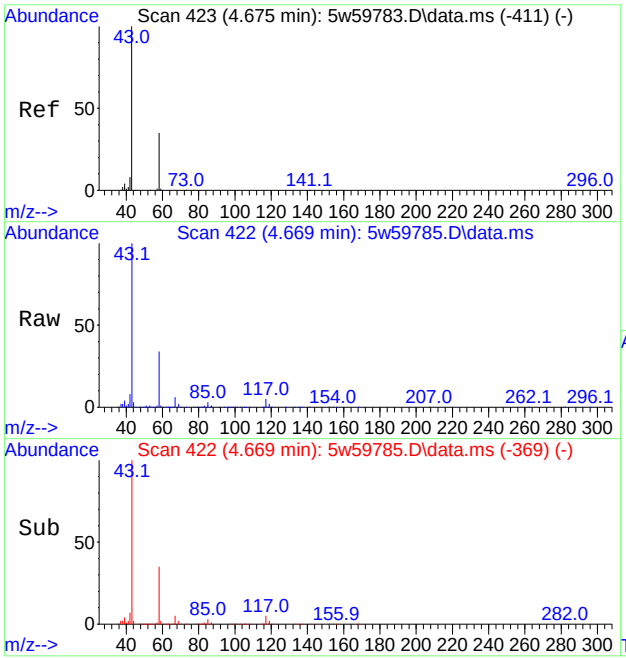


#22
ISOPROPYL ALCOHOL
Concen: 27.22 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 3091991

Ion	Ratio	Lower	Upper
45	100		
43	18.0	0.0	47.8
59	4.4	0.0	34.1

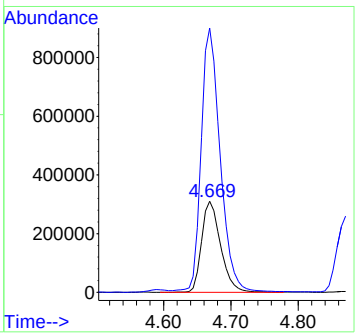


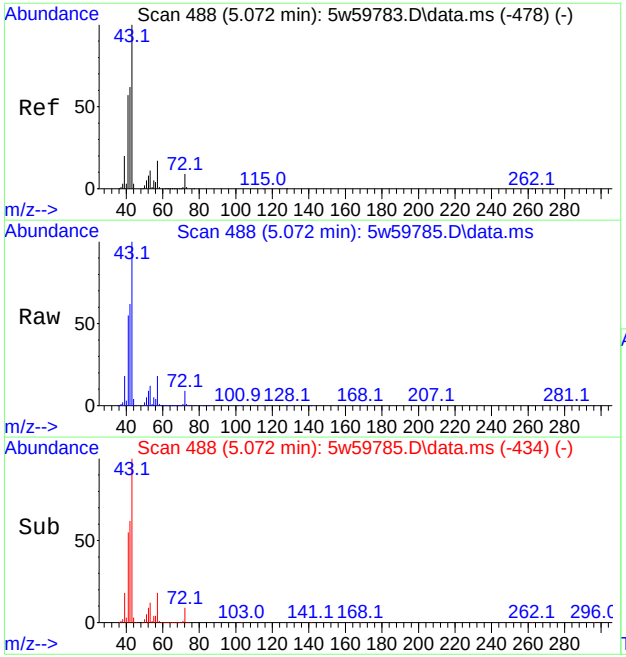


#23
ACETONE
Concen: 29.72 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 611815

Ion	Ratio	Lower	Upper
58	100		
43	288.5	252.3	312.3

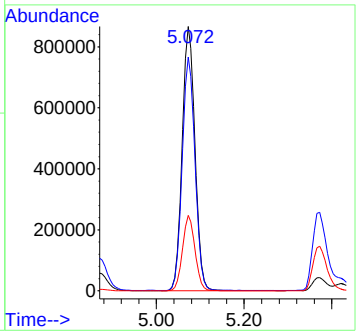


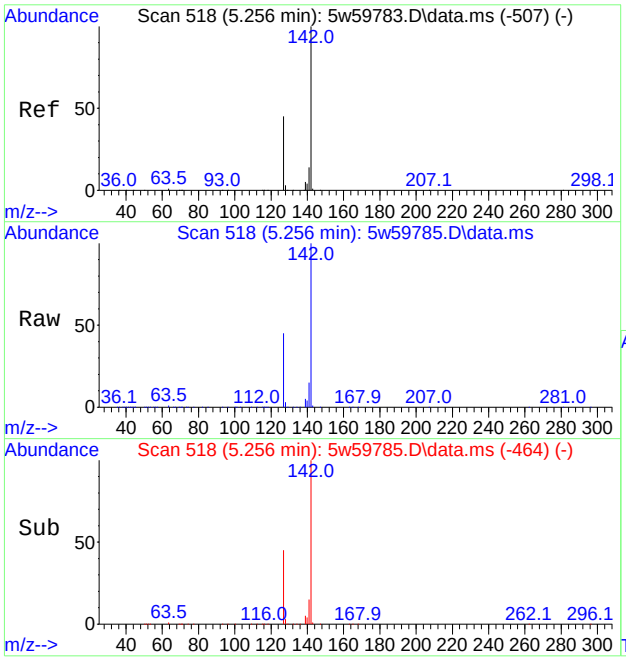


#24
PENTANE
Concen: 28.85 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 42 Resp: 1748442

Ion	Ratio	Lower	Upper
42	100		
41	89.0	62.3	122.3
57	28.1	0.0	57.7

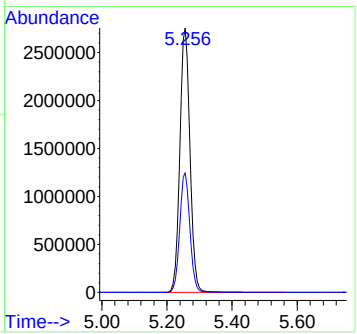


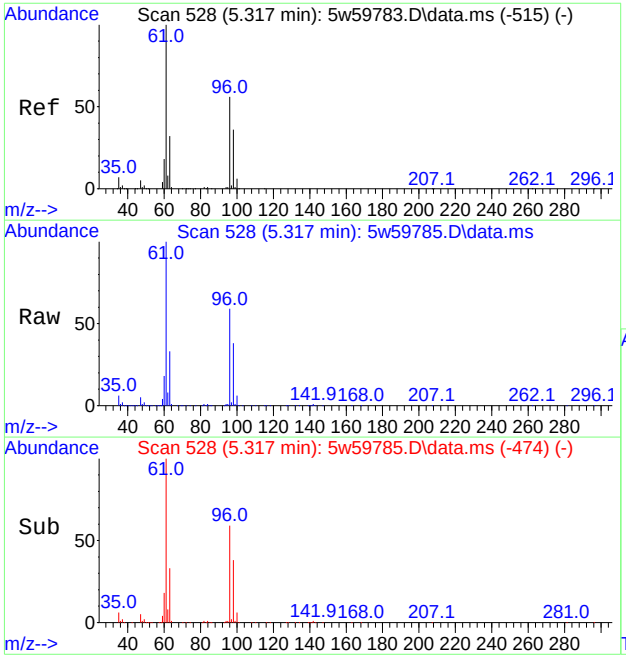


#25
IODOMETHANE
Concen: 39.54 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:142 Resp: 6000517

Ion	Ratio	Lower	Upper
142	100		
127	45.4	16.0	76.0

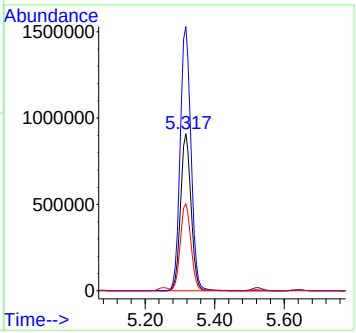


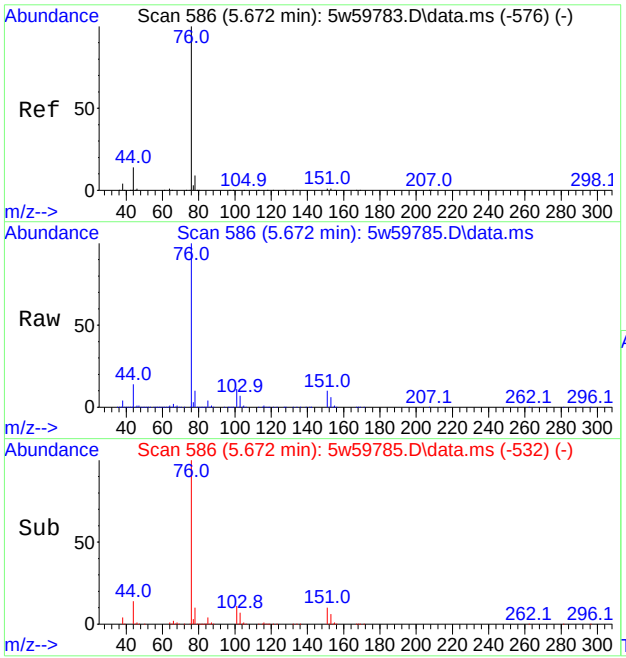


#26
1,1-DICHLOROETHYLENE
Concen: 35.49 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 1913922

Ion	Ratio	Lower	Upper
96	100		
61	172.5	148.5	208.5
63	56.3	27.4	87.4

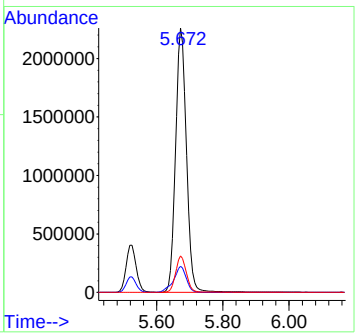


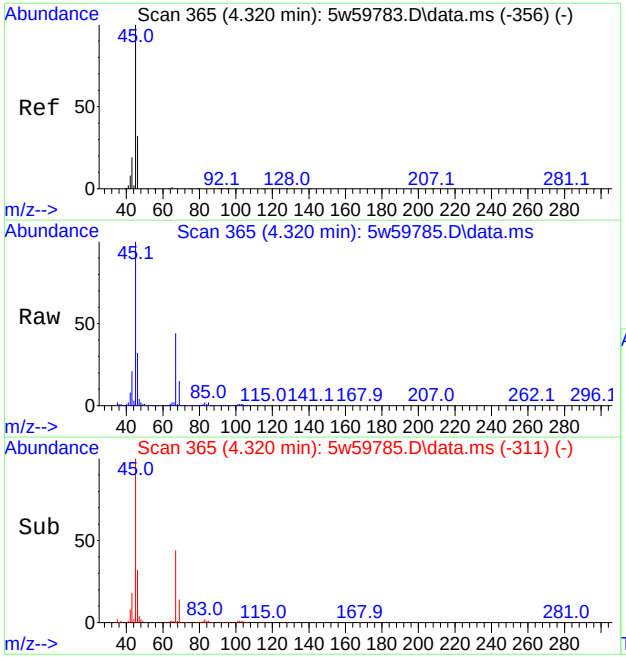


#27
CARBON DISULFIDE
Concen: 36.29 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 5159120

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.5	0.0	44.6

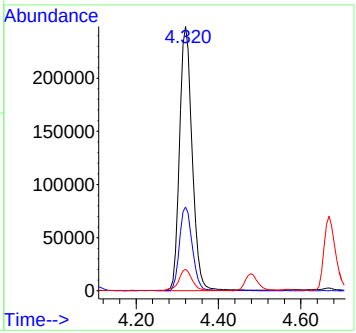


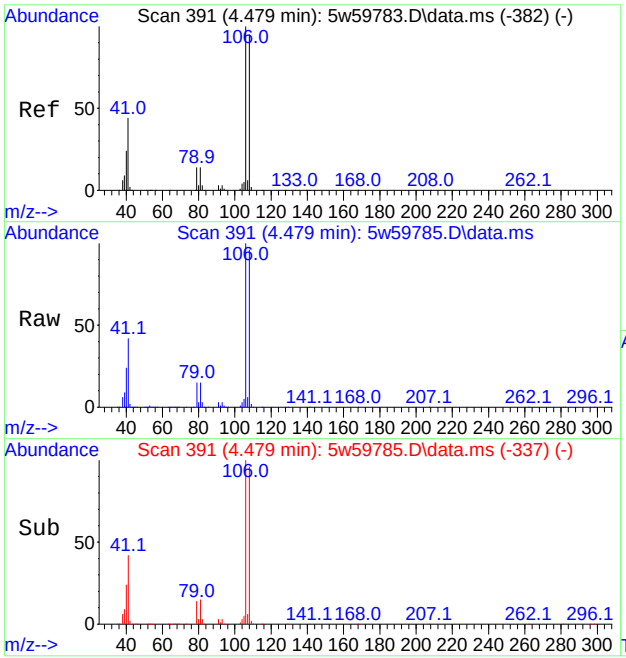


#28
ETHANOL
Concen: 23.67 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 528233

Ion	Ratio	Lower	Upper
45	100		
46	32.3	2.0	62.0
42	8.3	0.0	38.5

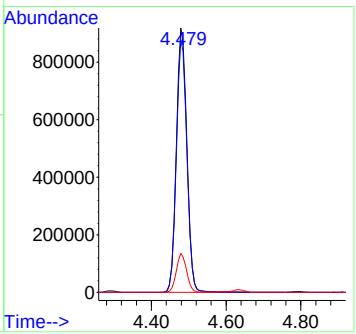


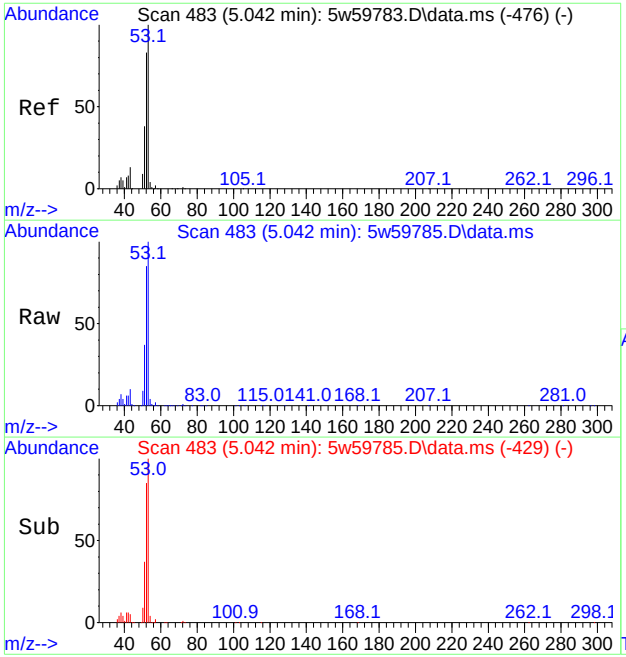


#29
BROMOETHENE
Concen: 37.63 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 1797717

Ion	Ratio	Lower	Upper
106	100		
108	95.5	65.6	125.6
81	14.2	0.0	43.9

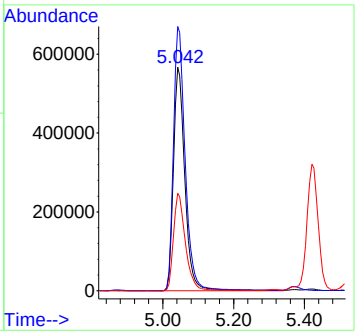


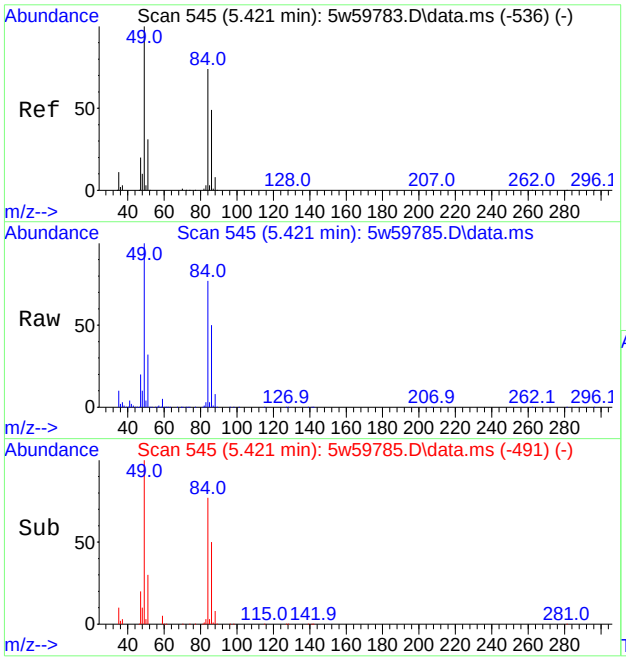


#30
ACRYLONITRILE
Concen: 36.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 1271597

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.4	32.3	60.1

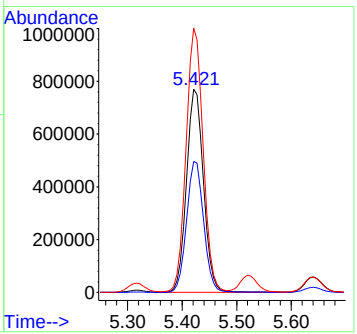


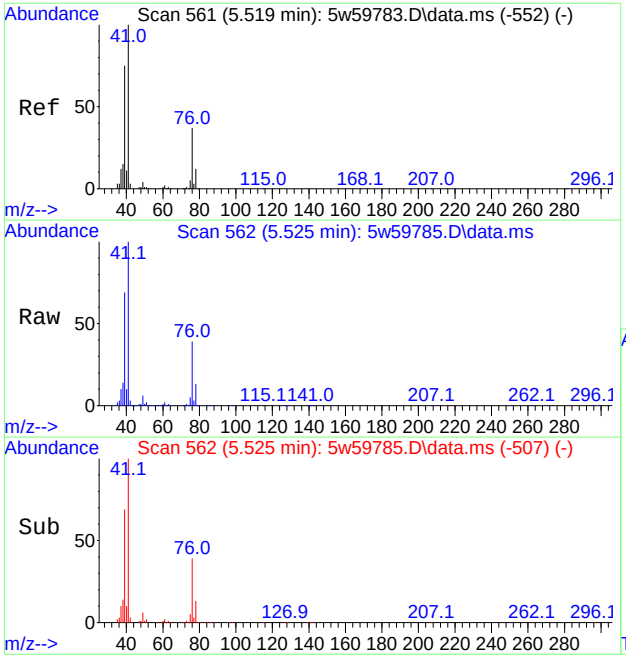


#31
METHYLENE CHLORIDE
Concen: 34.35 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 1660696

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	130.9	105.3	165.3

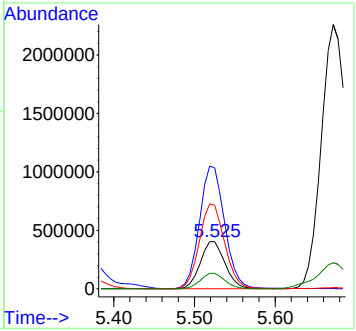


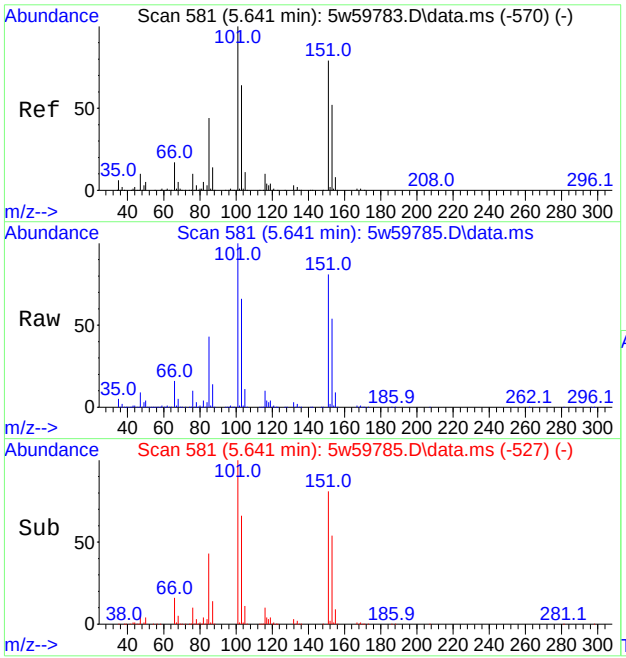


#32
3-CHLOROPROPENE
Concen: 38.85 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 861126

Ion	Ratio	Lower	Upper
76	100		
41	263.0	240.8	300.8
39	183.7	173.6	233.6
78	32.6	2.8	62.8

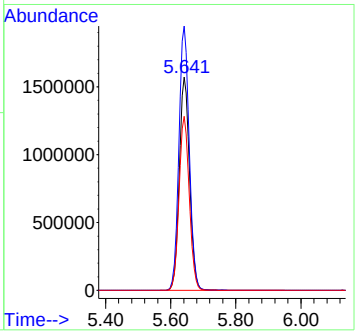


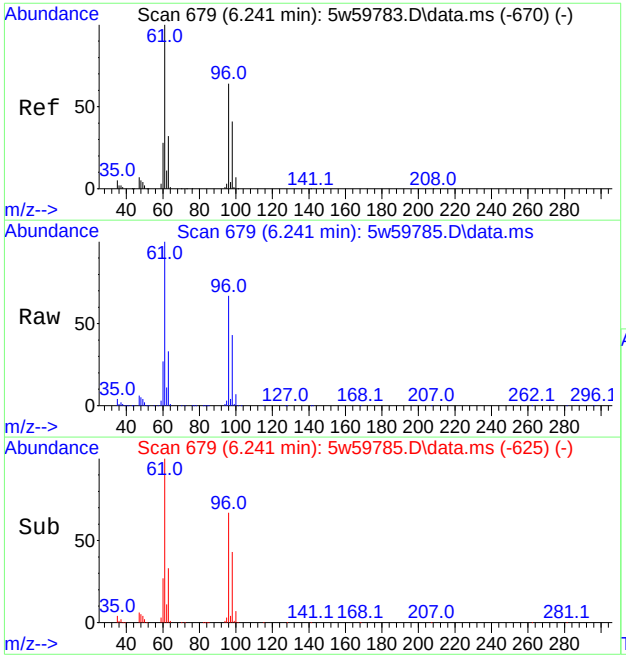


#33
FREON 113
Concen: 36.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:151 Resp: 3469148

Ion	Ratio	Lower	Upper
151	100		
101	125.0	97.5	157.5
103	81.5	52.5	112.5

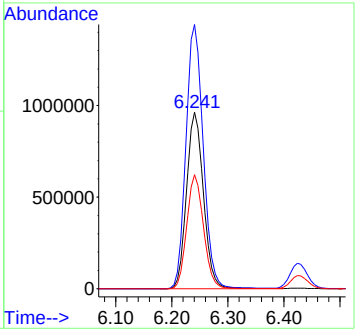


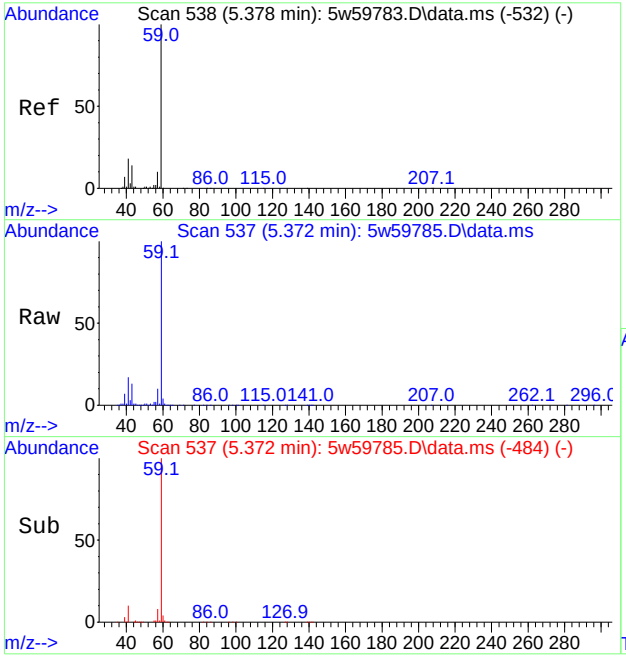


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 36.73 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2022318

Ion	Ratio	Lower	Upper
96	100		
61	152.5	126.4	186.4
98	64.2	34.1	94.1

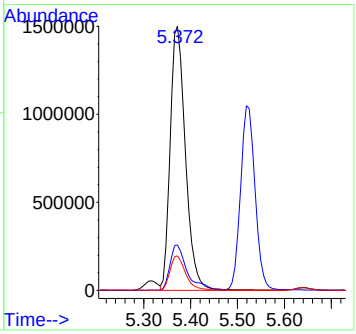


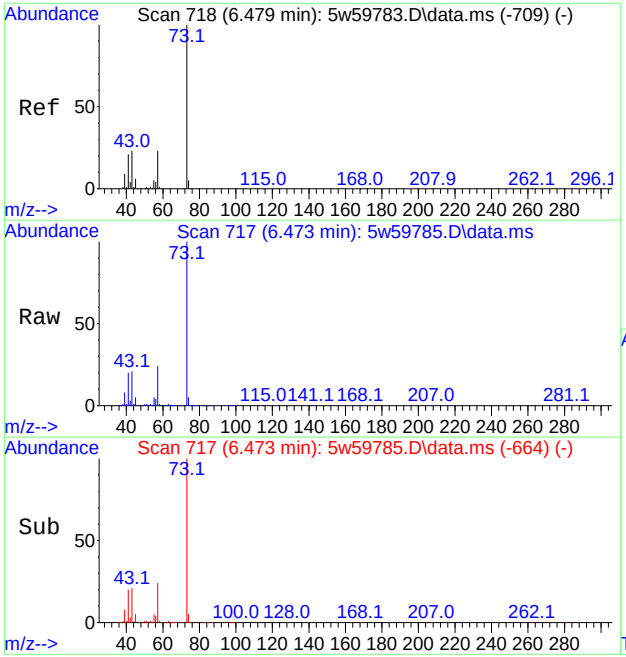


#35
TERTIARY BUTYL ALCOHOL
Concen: 29.74 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 3394797

Ion	Ratio	Lower	Upper
59	100		
41	19.2	0.0	49.3
43	13.3	0.0	44.1

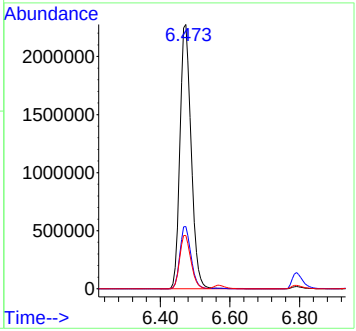


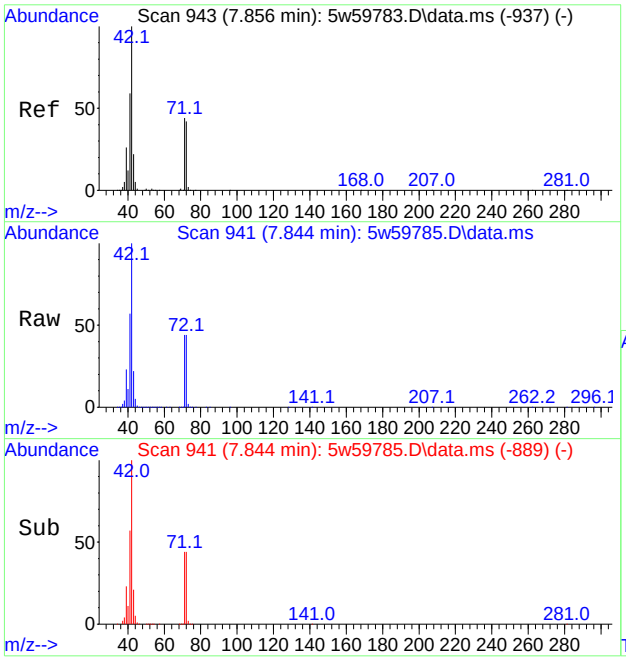


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.67 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 73 Resp: 5102873

Ion	Ratio	Lower	Upper
73	100		
57	23.4	0.0	53.1
41	20.3	0.0	50.6

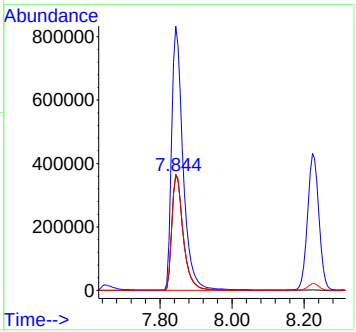


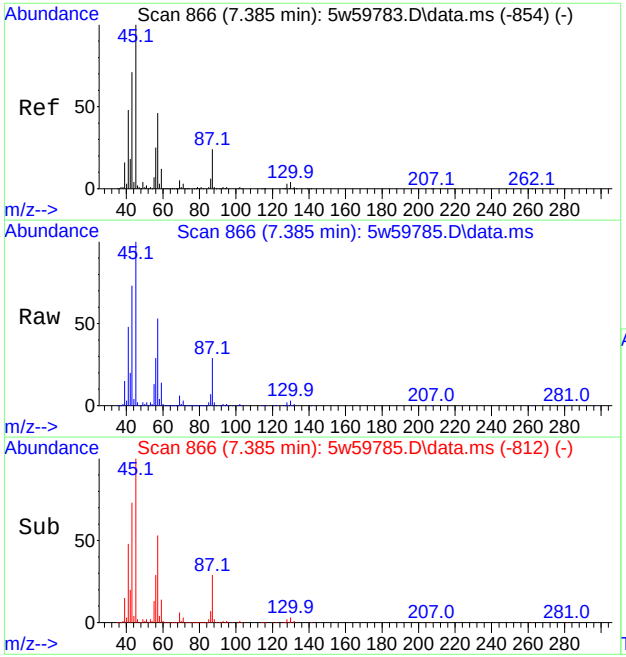


#37
TETRAHYDROFURAN
Concen: 44.15 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 801341

Ion	Ratio	Lower	Upper
72	100		
42	228.6	202.4	262.4
71	101.0	71.1	131.1

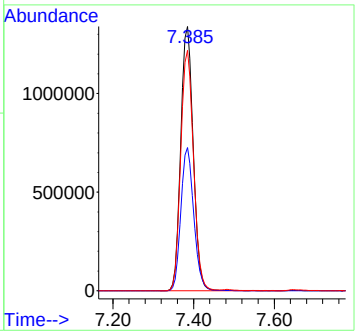


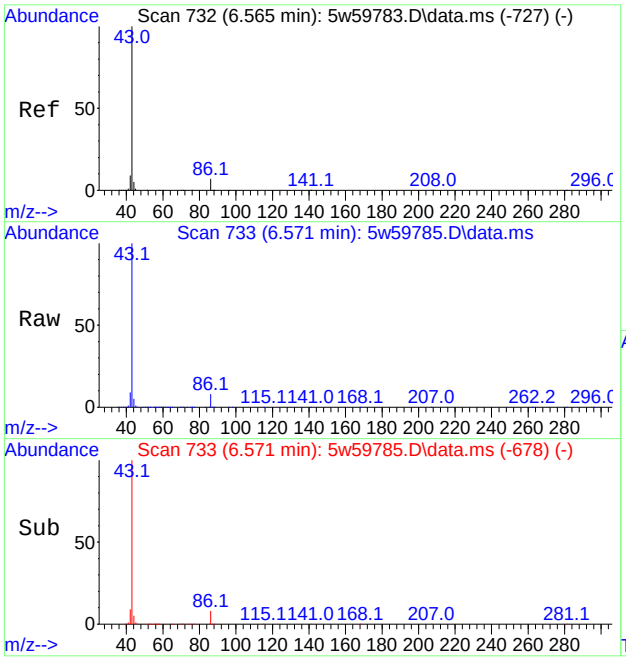


#38
HEXANE
Concen: 37.98 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 2879156

Ion	Ratio	Lower	Upper
57	100		
56	56.3	25.9	85.9
41	93.3	74.7	134.7

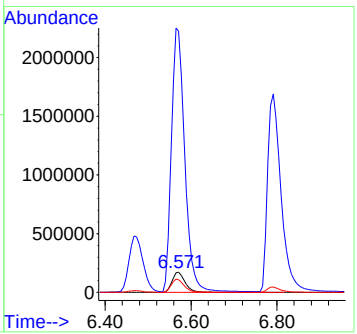


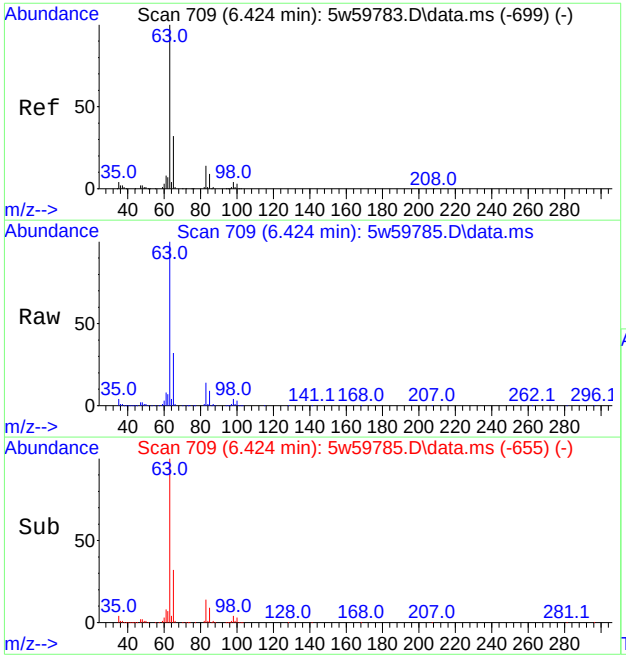


#39
VINYL ACETATE
Concen: 40.72 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 86 Resp: 363965

Ion	Ratio	Lower	Upper
86	100		
43	1327.9	1379.7	1439.7#
44	64.4	36.9	96.9

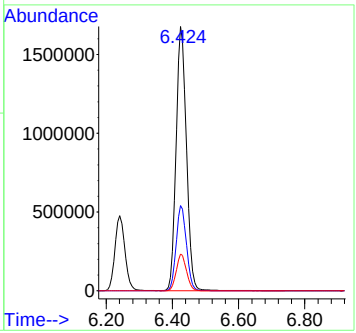


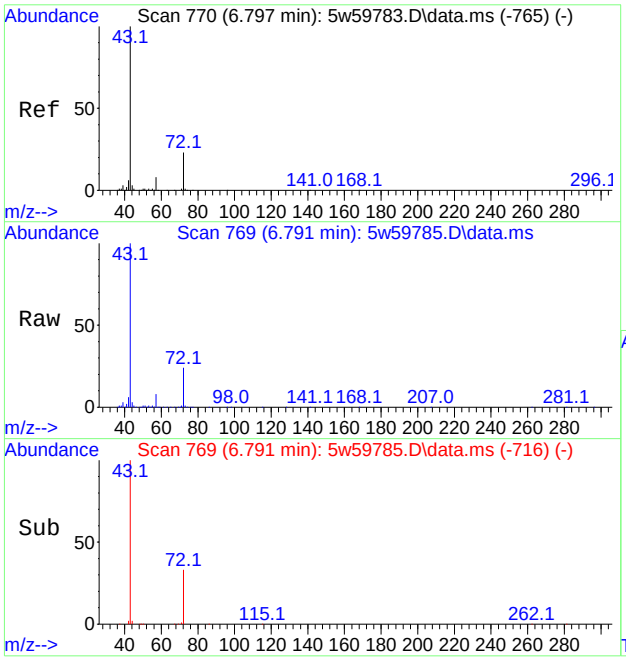


#40
1,1-DICHLOROETHANE
Concen: 36.44 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 3644940

Ion	Ratio	Lower	Upper
63	100		
65	32.2	1.7	61.7
83	13.7	0.0	43.5

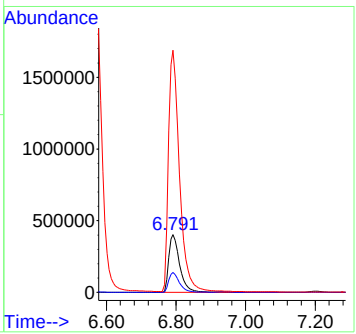


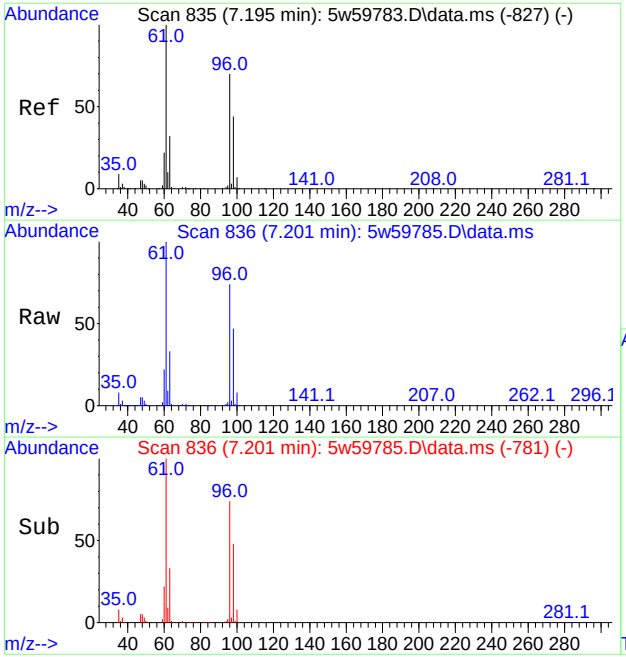


#41
METHYL ETHYL KETONE
Concen: 46.66 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 879599

Ion	Ratio	Lower	Upper
72	100		
57	34.6	4.8	64.8
43	418.8	415.9	475.9

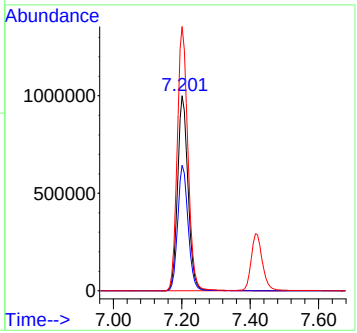


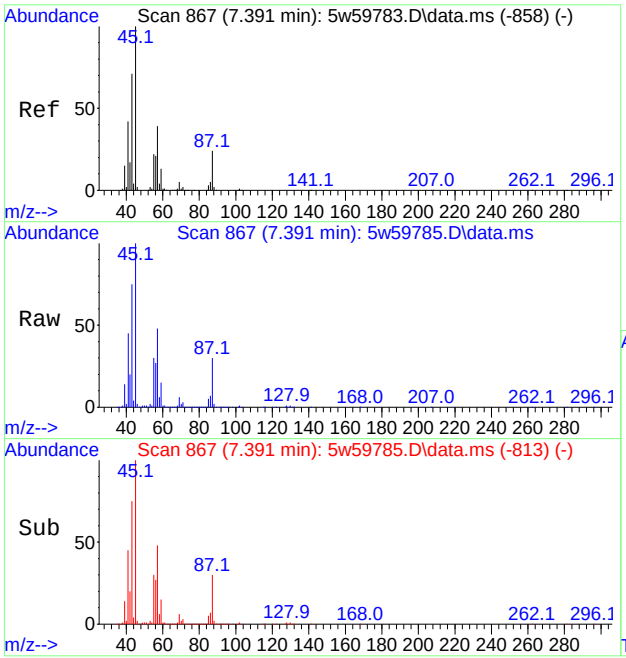


#42
cis-1,2-DICHLOROETHYLENE
Concen: 37.52 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2133694

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	137.7	111.5	171.5

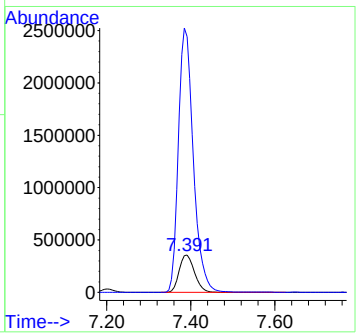


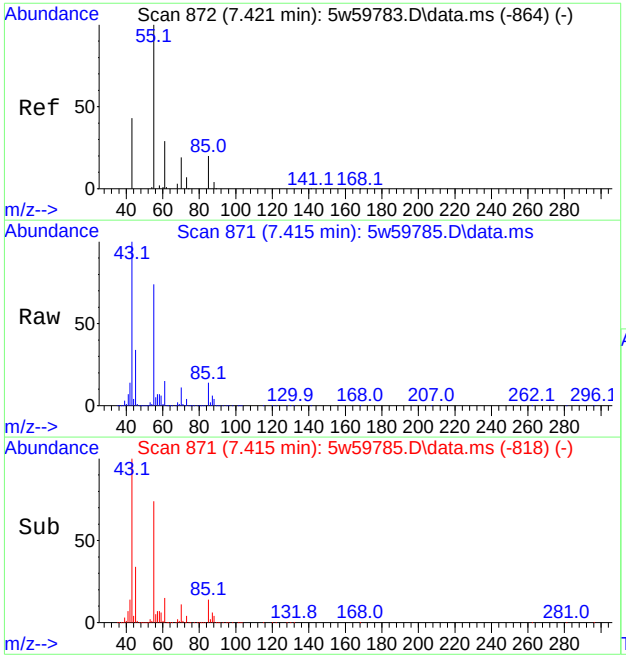


#43
DIISOPROPYL ETHER
Concen: 43.95 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 905463

Ion	Ratio	Lower	Upper
59	100		
45	688.0	720.9	780.9#

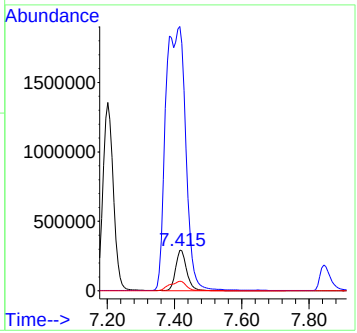


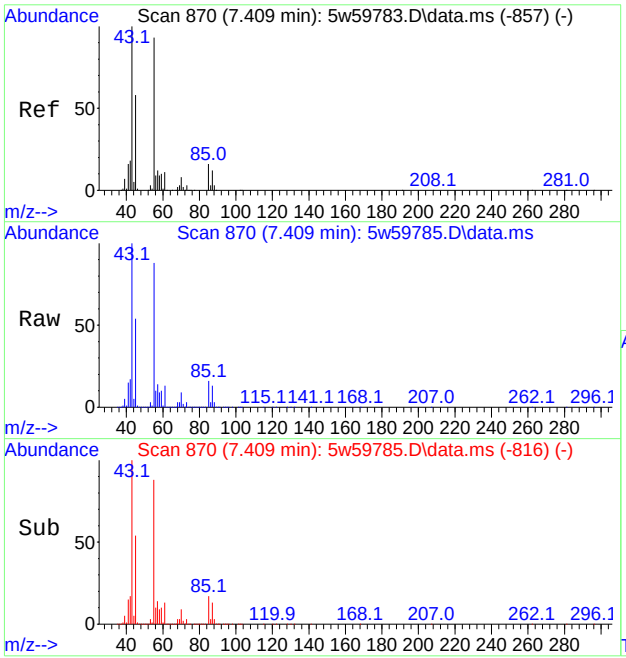


#44
ETHYL ACETATE
Concen: 43.14 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 61 Resp: 671399

Ion	Ratio	Lower	Upper
61	100		
43	592.5	560.5	620.5
88	35.9	4.5	64.5

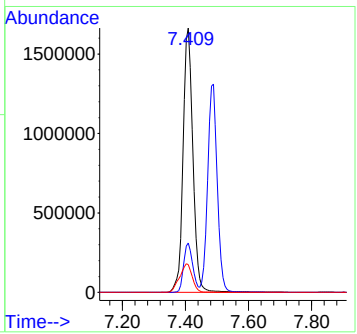


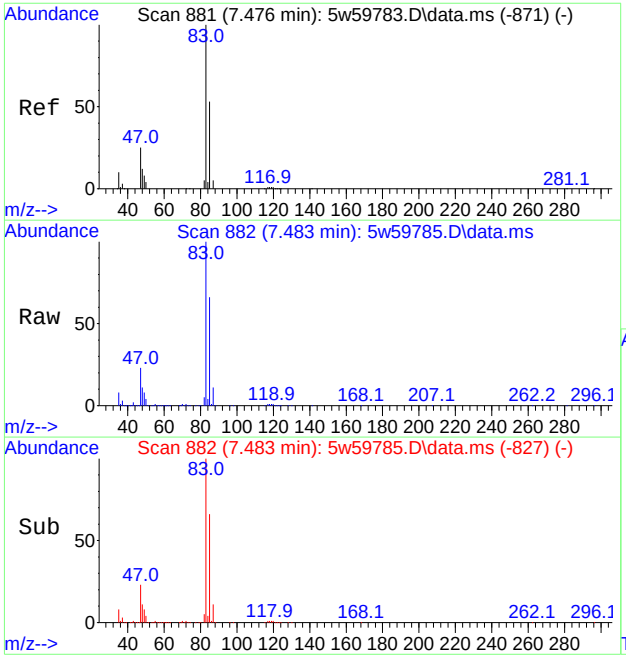


#45
METHYL ACRYLATE
Concen: 40.28 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 3595052

Ion	Ratio	Lower	Upper
55	100		
85	17.5	10.9	20.3
58	14.0	9.4	17.6

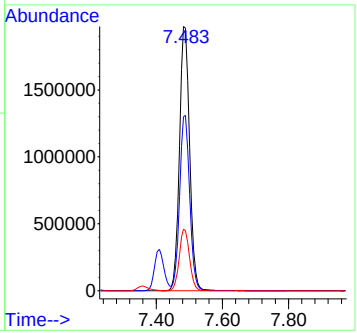


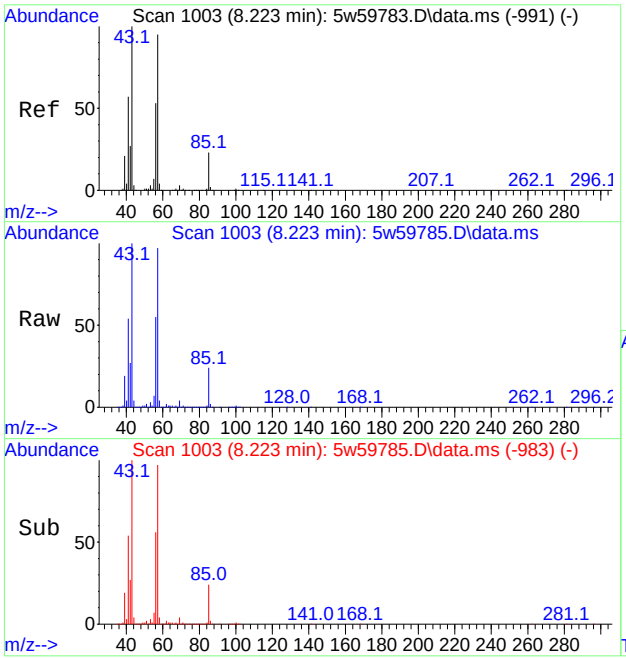


#46
CHLOROFORM
Concen: 36.42 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4216969

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	23.6	0.0	55.2

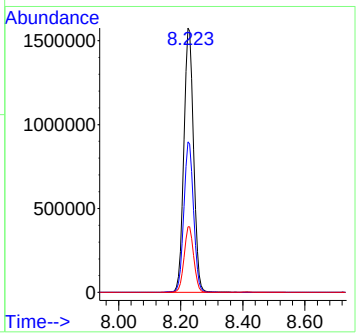


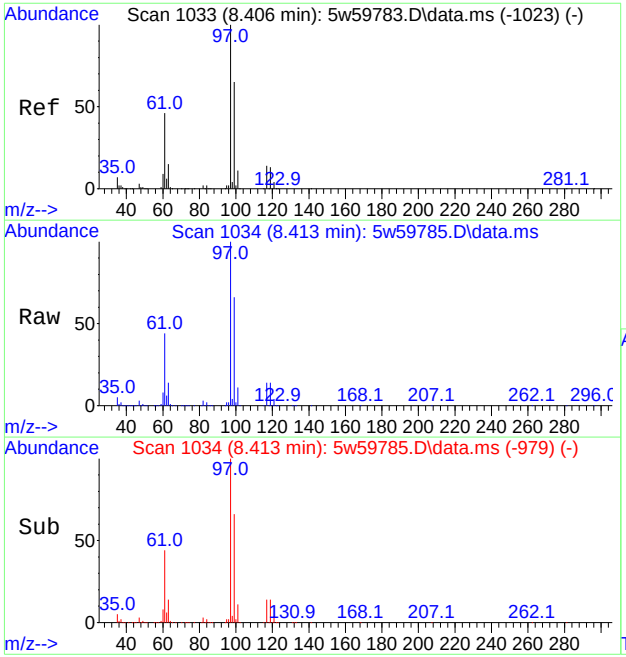


#47
2,4-DIMETHYLPENTANE
Concen: 38.76 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 3428957

Ion	Ratio	Lower	Upper
57	100		
56	57.1	26.5	86.5
85	24.6	0.0	53.8

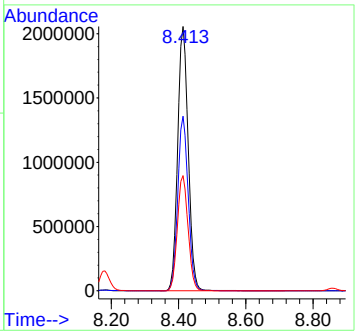


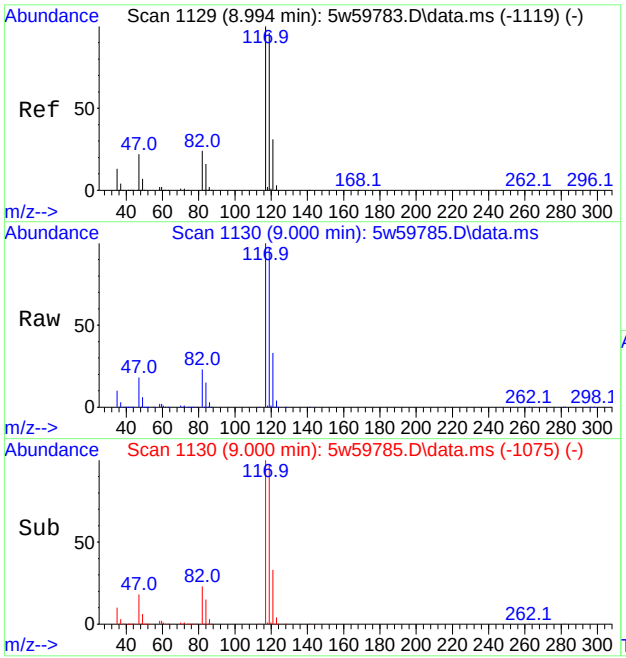


#48
1,1,1-TRICHLOROETHANE
Concen: 35.48 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 97 Resp: 4473116

Ion	Ratio	Lower	Upper
97	100		
99	65.5	34.8	94.8
61	44.3	15.8	75.8

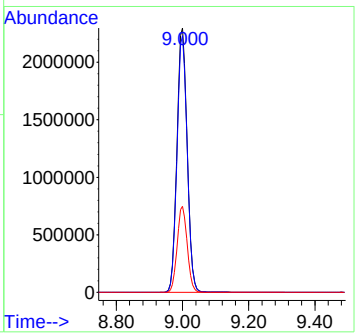


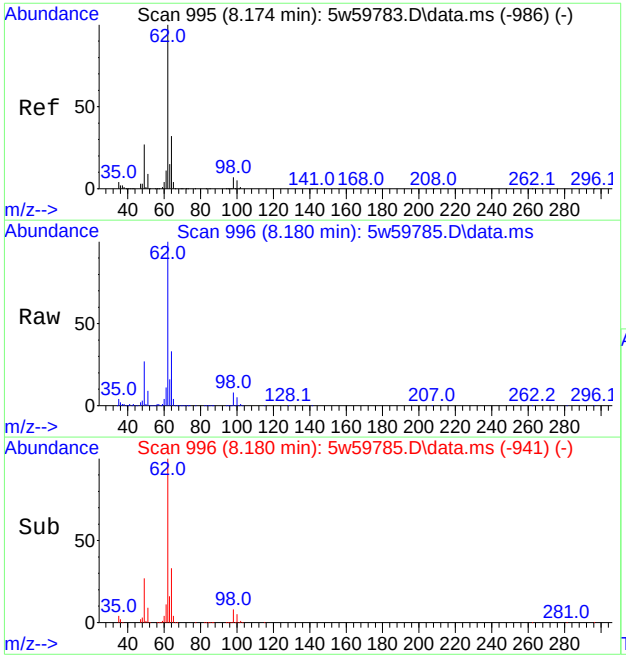


#49
CARBON TETRACHLORIDE
Concen: 35.62 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4942966

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.9	126.9
121	32.2	1.3	61.3

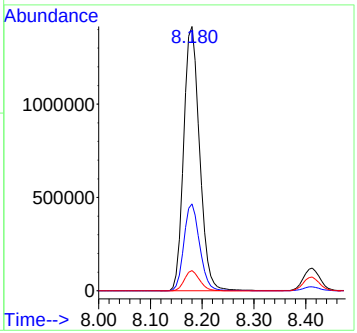


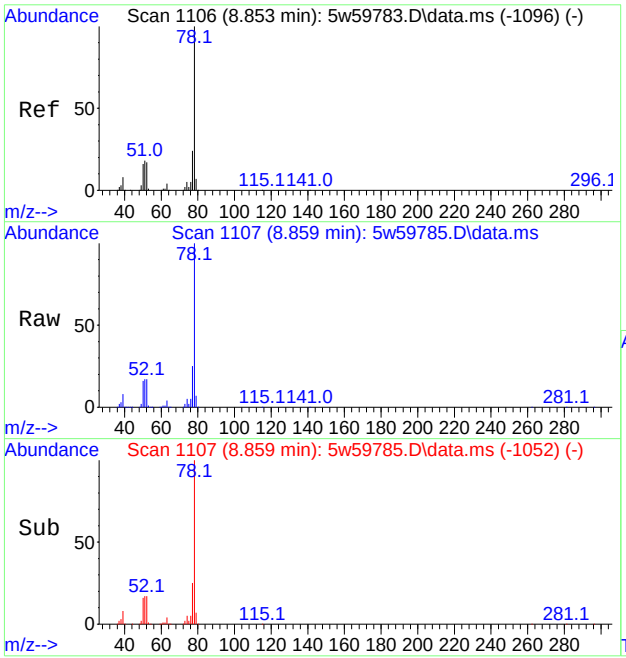


#50
1,2-DICHLOROETHANE
Concen: 37.08 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 3028960

Ion	Ratio	Lower	Upper
62	100		
64	32.6	2.3	62.3
98	7.4	0.0	36.9

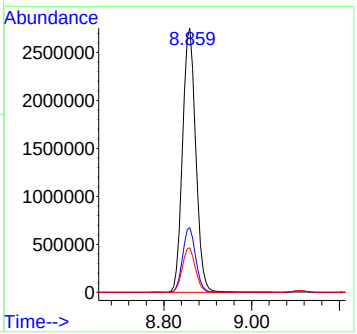


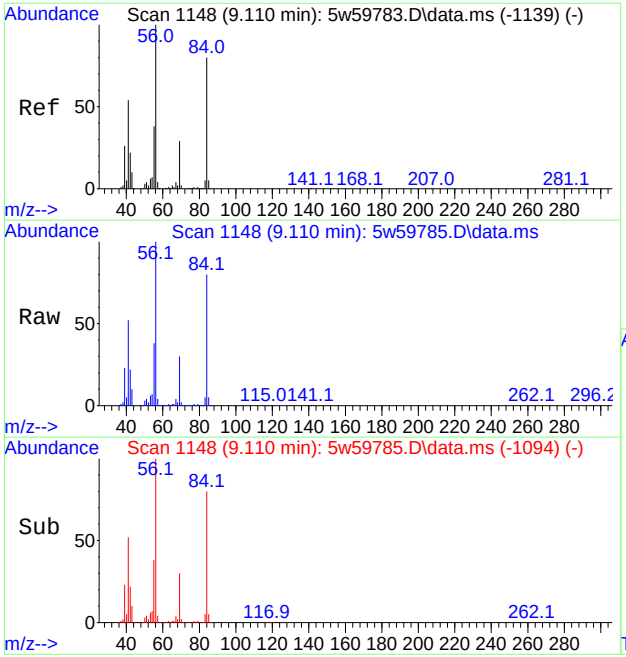


#52
BENZENE
Concen: 44.75 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 78 Resp: 5773385

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	53.8
52	16.9	0.0	46.9

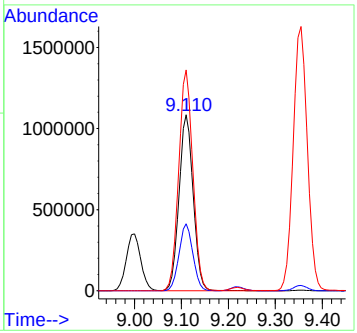


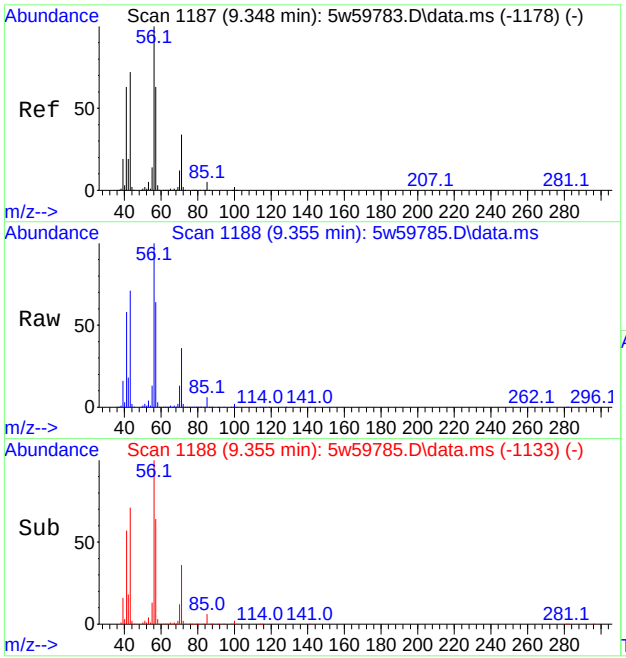


#53
CYCLOHEXANE
Concen: 44.64 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 2282258

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	125.1	98.2	158.2

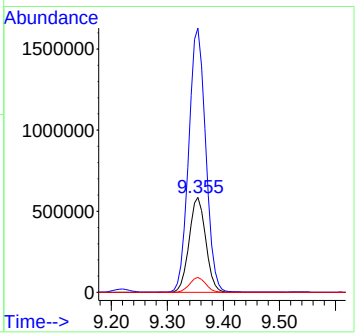


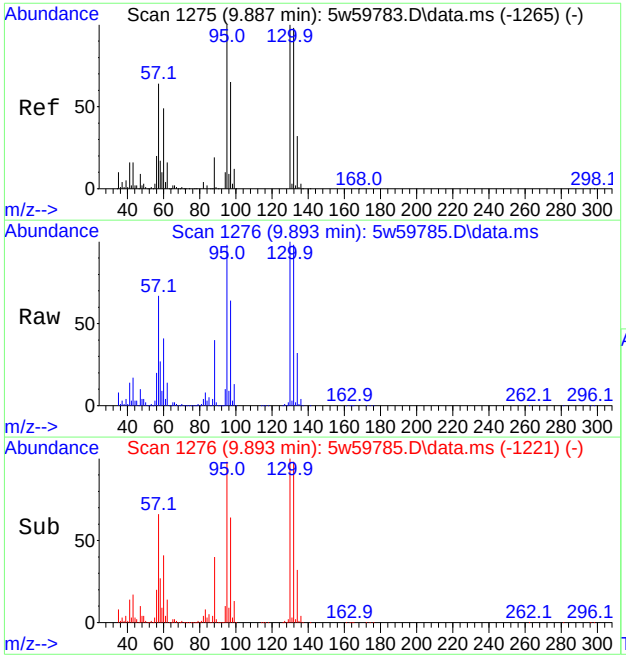


#54
2,3-DIMETHYLPENTANE
Concen: 46.80 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 71 Resp: 1205121

Ion	Ratio	Lower	Upper
71	100		
56	284.5	264.6	324.6
85	15.5	0.0	45.3

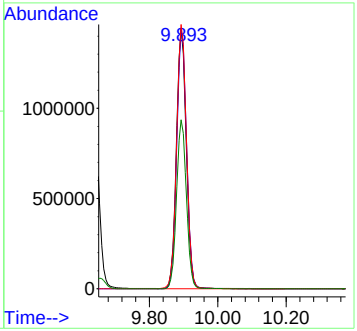


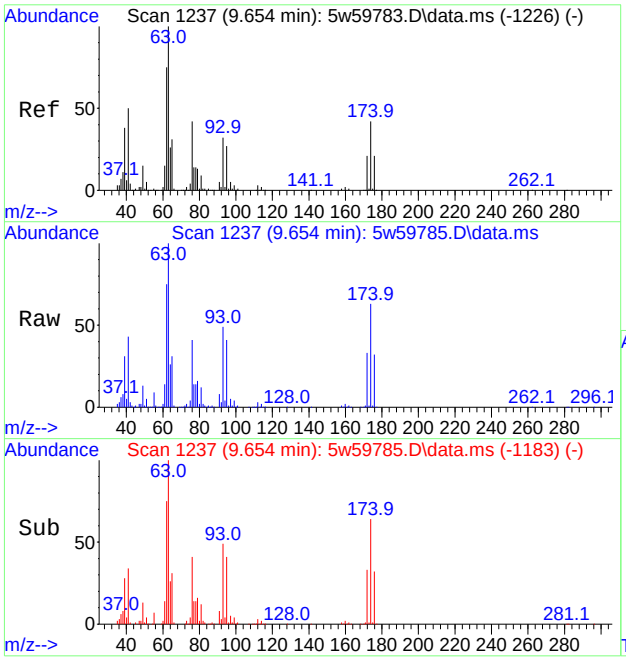


#55
TRICHLOROETHYLENE
Concen: 41.87 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 95 Resp: 2886125

Ion	Ratio	Lower	Upper
95	100		
132	99.9	69.0	129.0
130	102.3	70.6	130.6
97	65.1	34.6	94.6

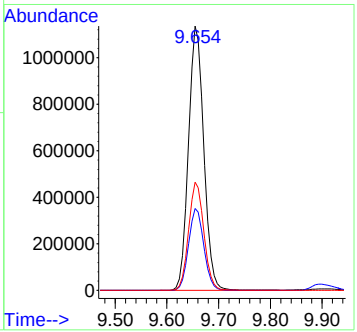


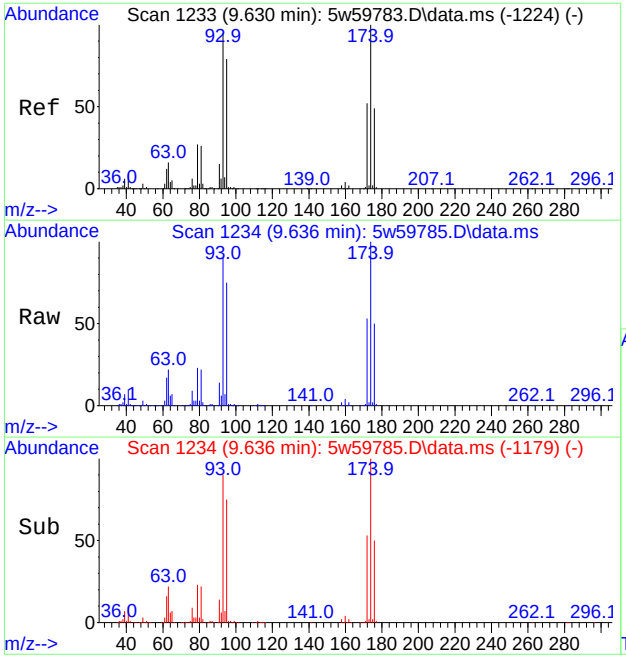


#56
1,2-DICHLOROPROPANE
Concen: 42.47 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 2329113

Ion	Ratio	Lower	Upper
63	100		
65	31.1	0.5	60.5
76	40.9	11.5	71.5

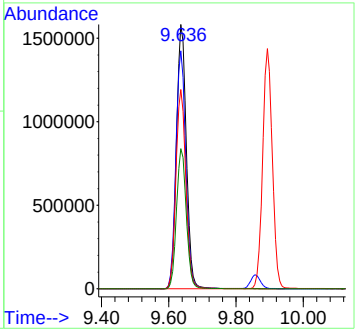


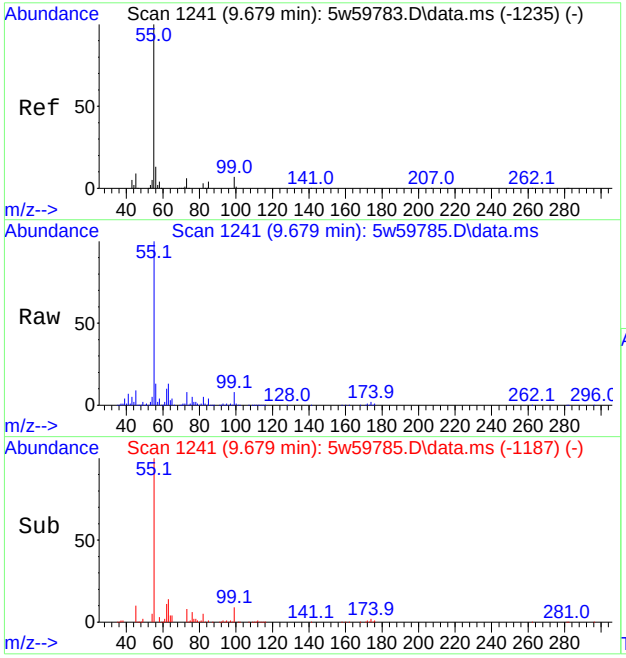


#57
DIBROMOMETHANE
Concen: 42.48 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:174 Resp: 3208165

Ion	Ratio	Lower	Upper
174	100		
93	90.6	65.0	120.6
95	76.0	54.5	101.1
172	52.7	36.3	67.5

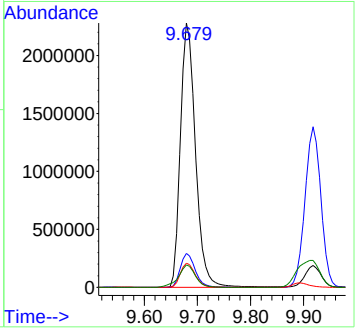


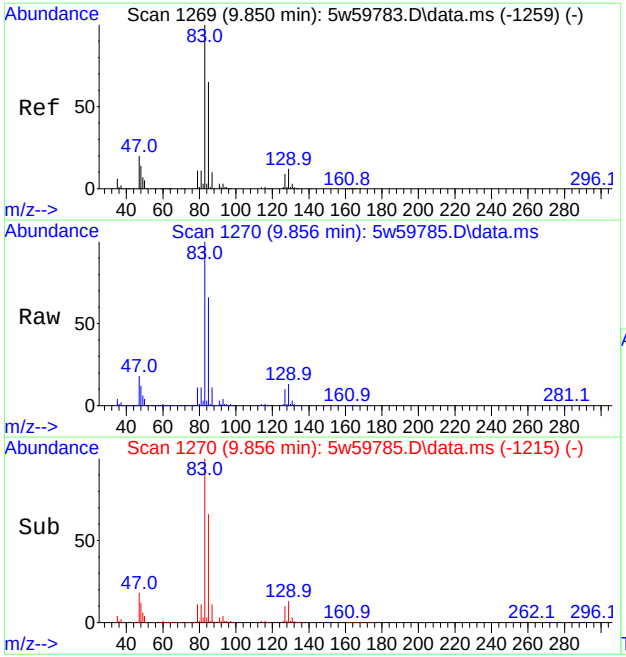


#58
ETHYL ACRYLATE
Concen: 46.25 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 4517787

Ion	Ratio	Lower	Upper
55	100		
56	12.6	8.6	16.0
45	9.1	6.6	12.2
99	9.6	6.4	12.0

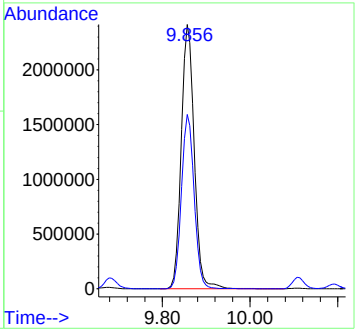


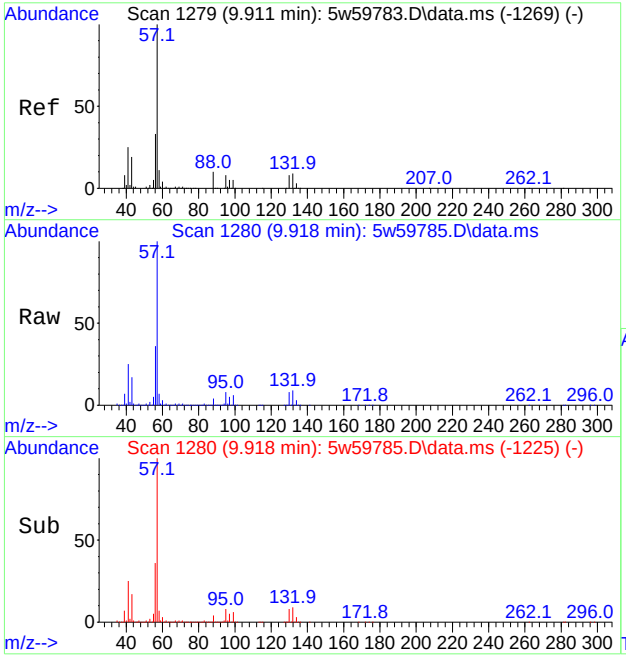


#59
BROMODICHLOROMETHANE
Concen: 40.63 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4951368

Ion	Ratio	Lower	Upper
83	100		
85	64.6	33.4	93.4

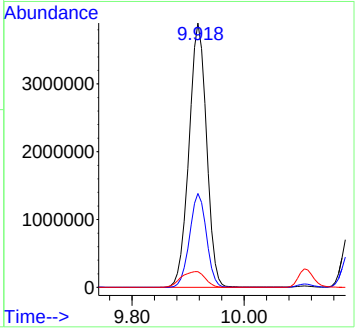


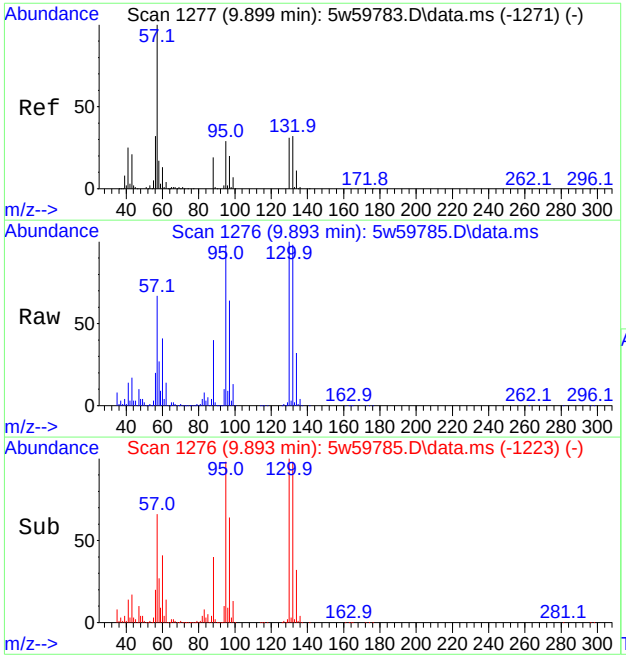


#60
2,2,4-TRIMETHYLPENTANE
Concen: 38.93 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 8459039

Ion	Ratio	Lower	Upper
57	100		
56	34.0	2.5	62.5
99	8.2	0.0	37.3

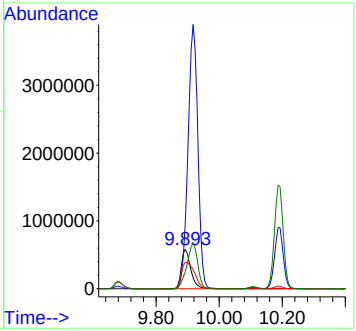


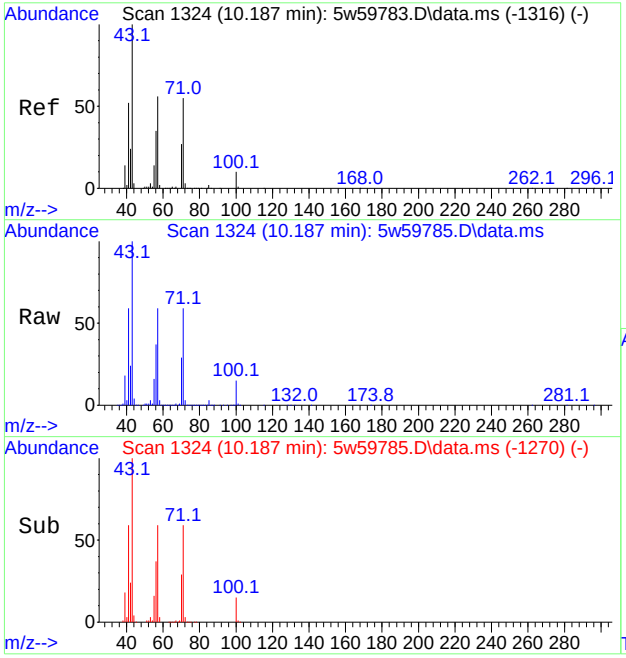


#61
1,4-DIOXANE
Concen: 45.35 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 88 Resp: 1215269

Ion	Ratio	Lower	Upper
88	100		
57	167.4	494.2	554.2#
58	67.1	58.9	118.9
43	43.9	78.3	138.3#

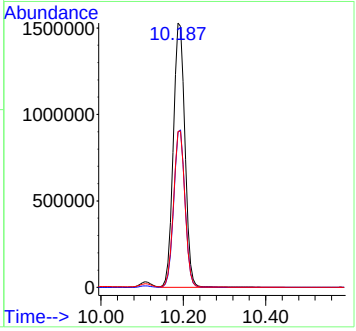


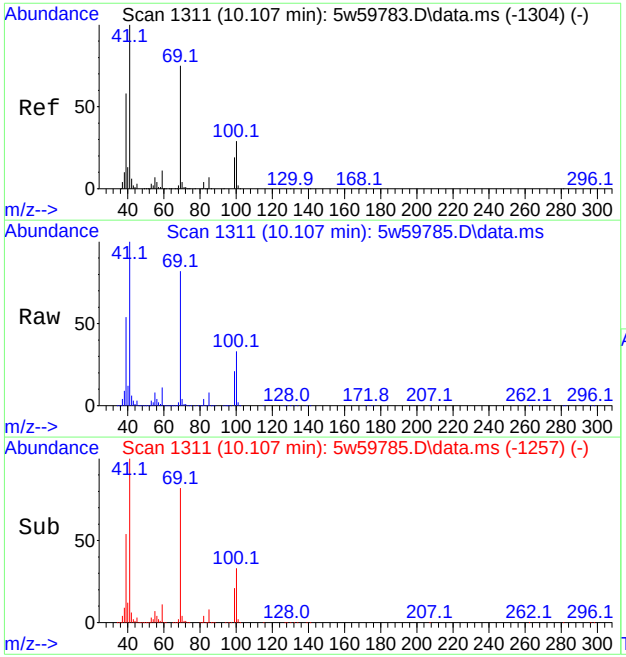


#62
HEPTANE
Concen: 37.77 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 2988992

Ion	Ratio	Lower	Upper
43	100		
71	57.8	24.5	84.5
57	58.3	26.2	86.2

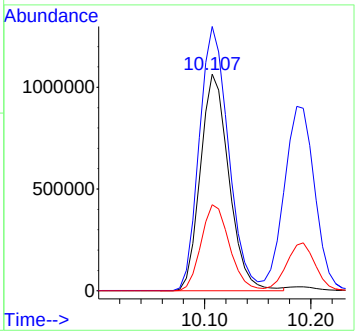


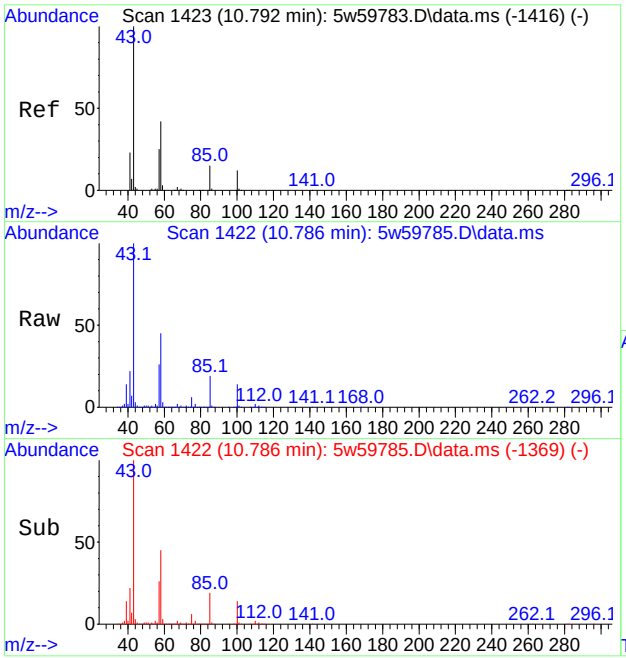


#63
METHYL METHACRYLATE
Concen: 49.92 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 1989625

Ion	Ratio	Lower	Upper
69	100		
41	124.2	95.3	155.3
100	39.6	6.3	66.3

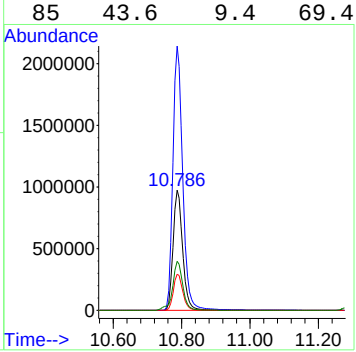


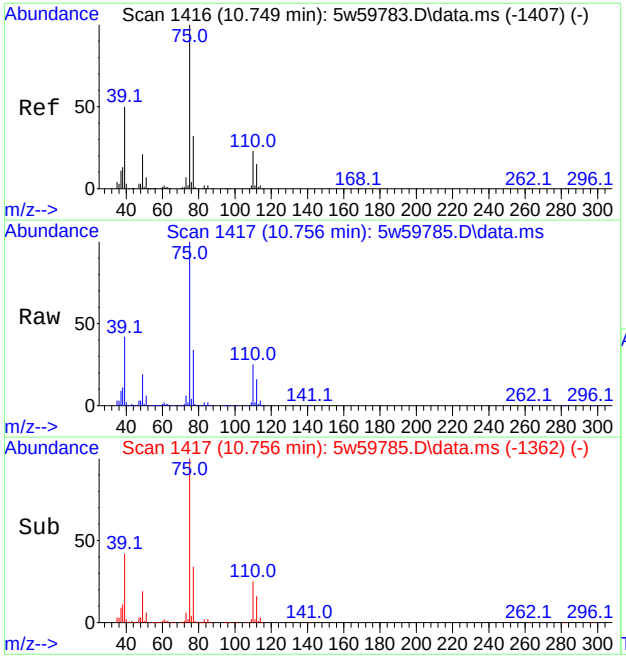


#64
METHYL ISOBUTYL KETONE
Concen: 47.23 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 1921879

Ion	Ratio	Lower	Upper
58	100		
43	225.1	209.2	269.2
100	30.1	0.0	58.8
85	43.6	9.4	69.4

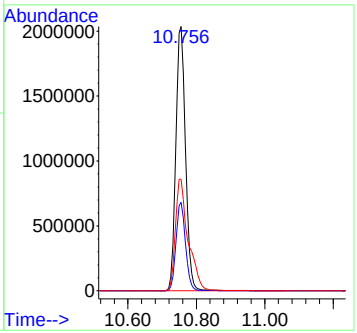


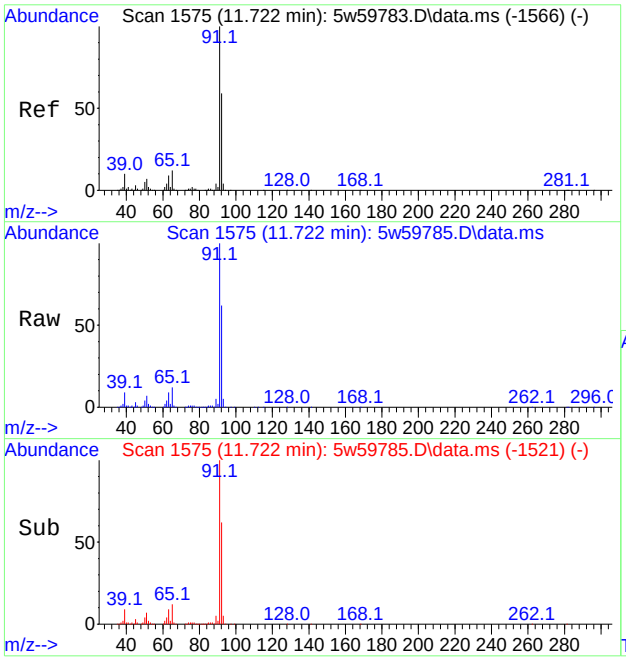


#65
cis-1,3-DICHLOROPROPENE
Concen: 47.39 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4023307

Ion	Ratio	Lower	Upper
75	100		
77	33.0	2.2	62.2
39	56.0	34.3	94.3

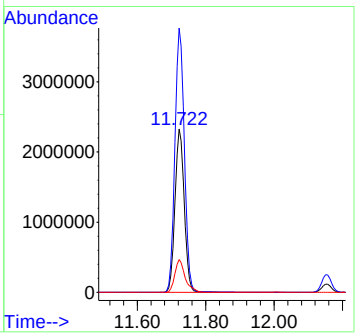


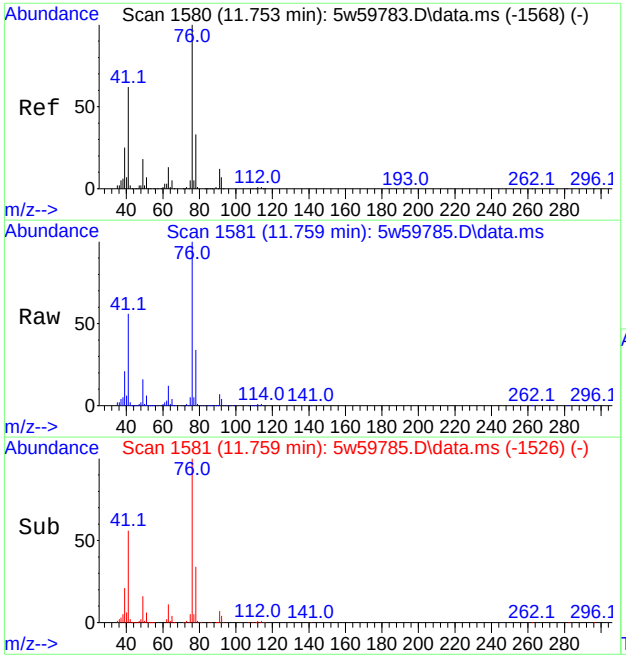


#66
TOLUENE
Concen: 47.83 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 92 Resp: 4414753

Ion	Ratio	Lower	Upper
92	100		
91	164.9	140.1	200.1
65	22.5	0.0	53.1

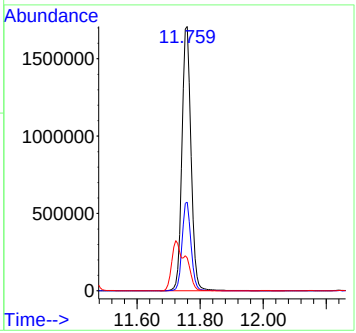


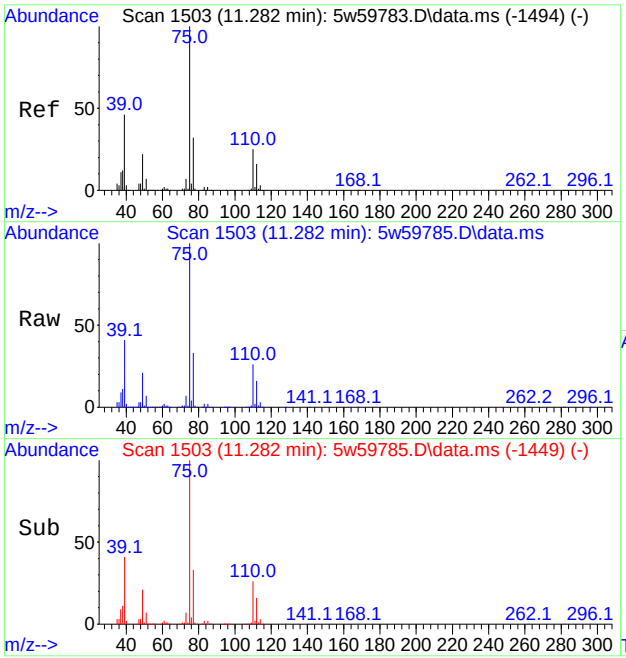


#67
1,3-DICHLOROPROPANE
Concen: 44.02 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 3397591

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	11.1	7.1	13.1

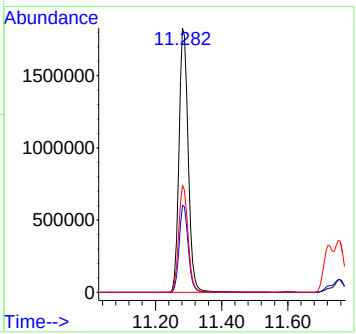


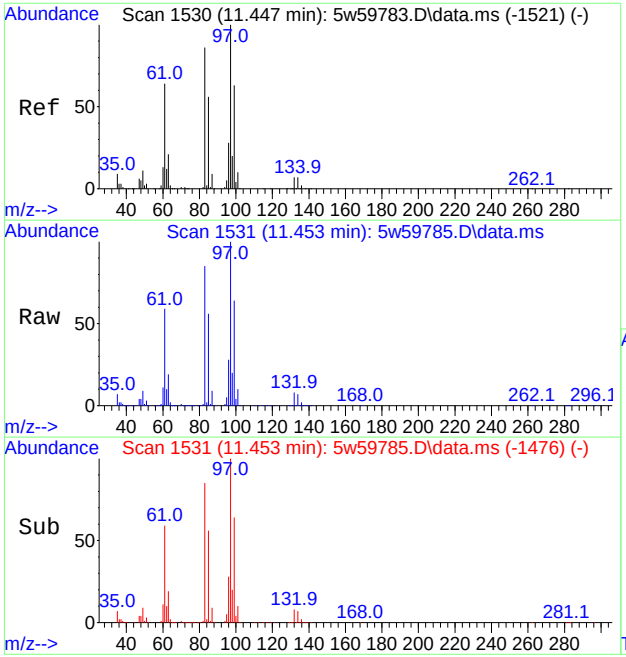


#68
trans-1,3-DICHLOROPROPENE
Concen: 45.59 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 3536223

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	41.6	16.1	76.1

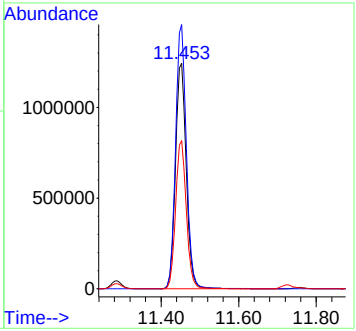


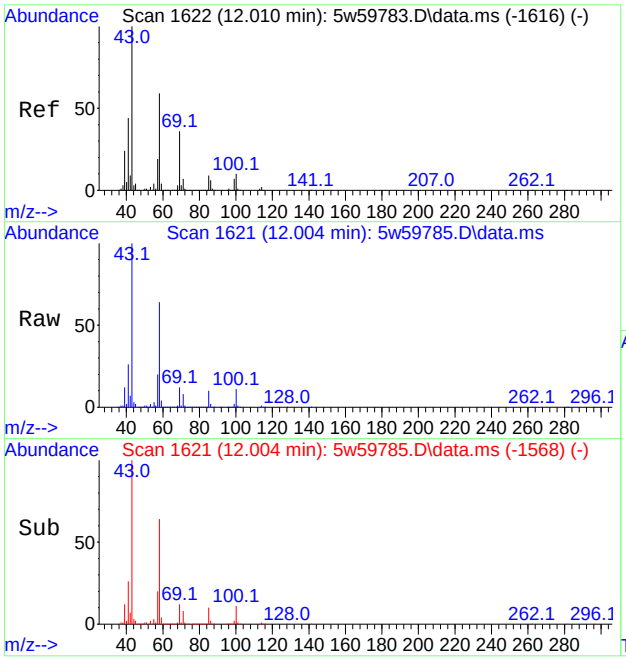


#69
1,1,2-TRICHLOROETHANE
Concen: 47.73 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 2422259

Ion	Ratio	Lower	Upper
83	100		
97	116.5	86.3	146.3
85	65.3	35.3	95.3

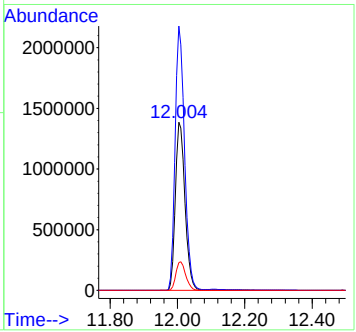


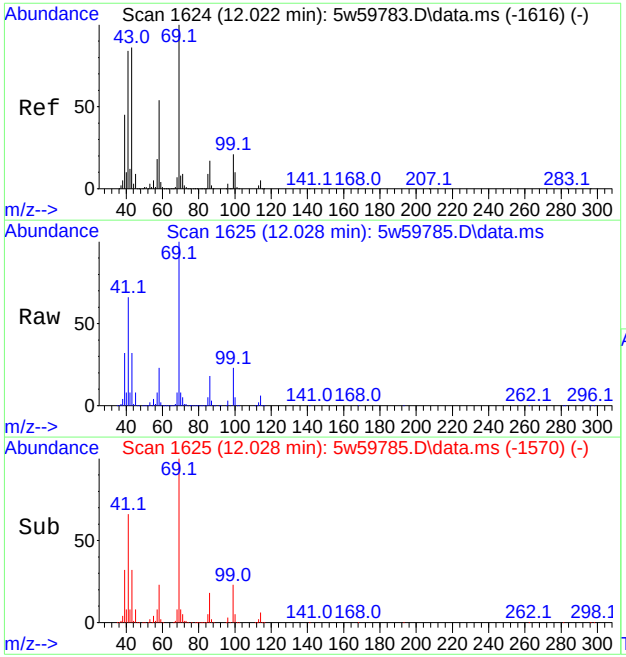


#71
2-HEXANONE
Concen: 43.59 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 2753205

Ion	Ratio	Lower	Upper
58	100		
43	154.2	137.2	197.2
100	17.6	0.0	46.9

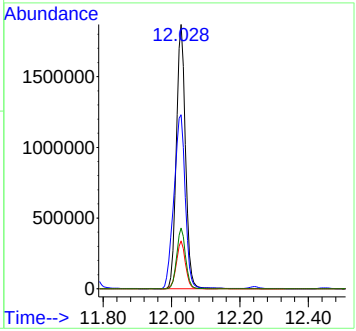


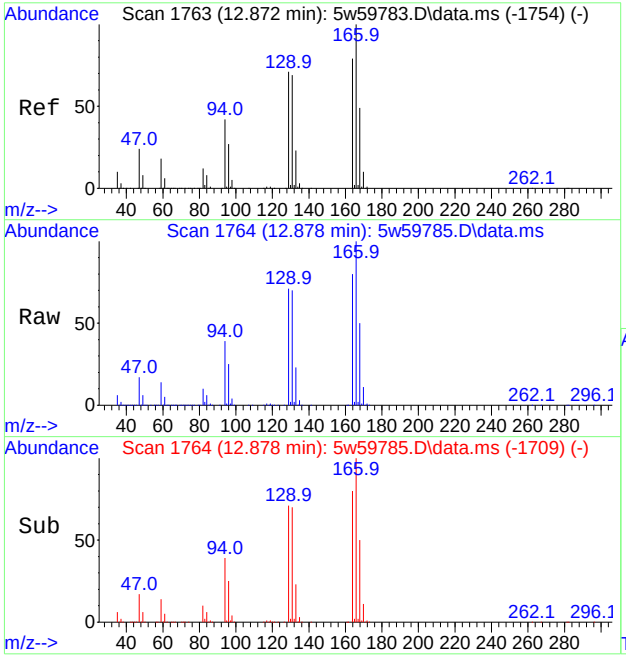


#72
ETHYL METHACRYLATE
Concen: 43.20 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 3484828

Ion	Ratio	Lower	Upper
69	100		
41	81.9	64.0	119.0
86	18.0	12.0	22.4
99	22.5	15.0	27.8

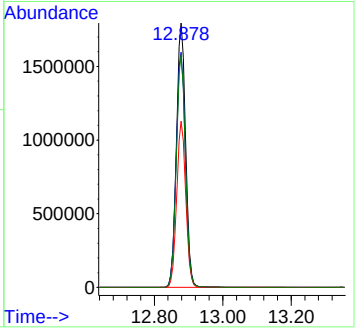


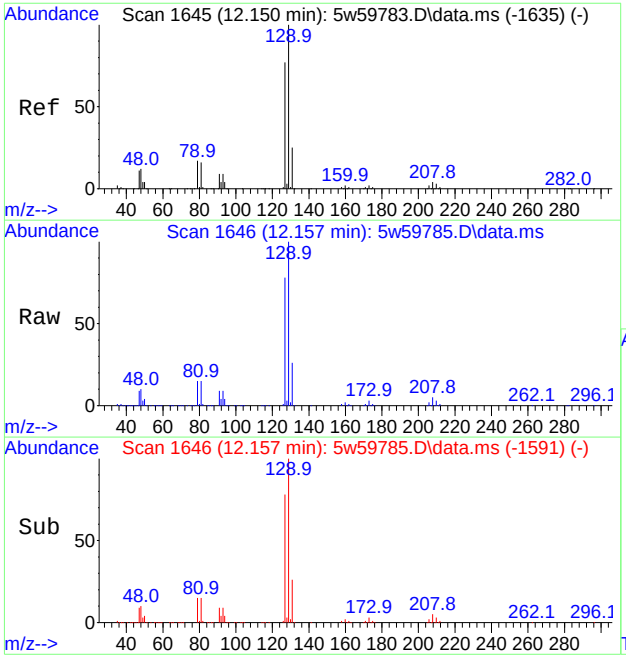


#73
TETRACHLOROETHYLENE
Concen: 35.84 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:164 Resp: 3370251

Ion	Ratio	Lower	Upper
164	100		
129	89.6	59.7	119.7
168	62.4	32.2	92.2
131	87.9	57.8	117.8

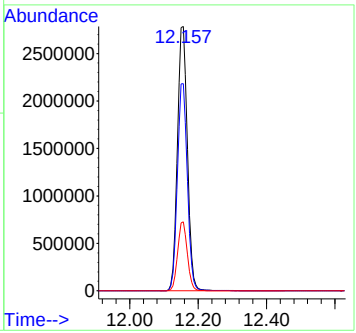


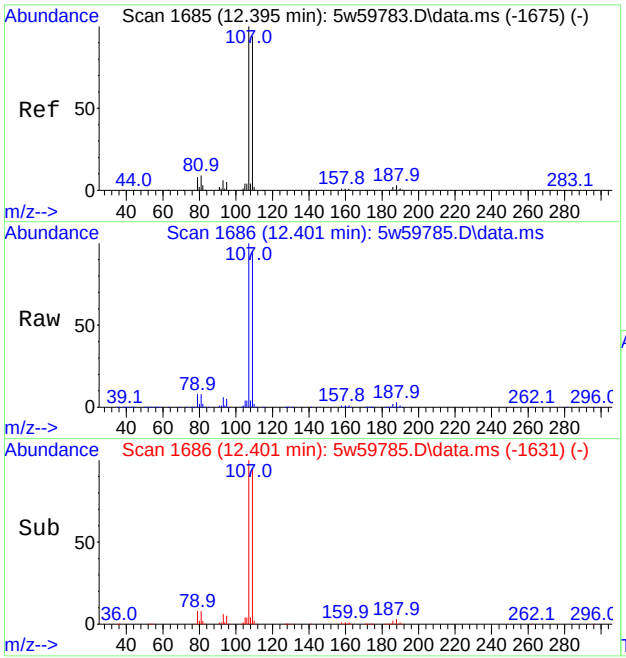


#74
DIBROMOCHLOROMETHANE
Concen: 35.57 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:129 Resp: 5622668

Ion	Ratio	Lower	Upper
129	100		
127	78.3	47.1	107.1
131	25.5	0.0	54.5

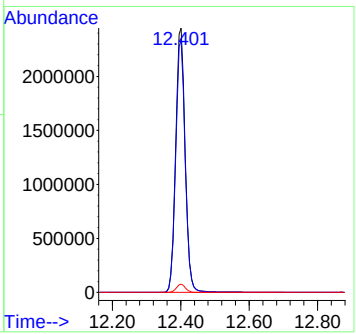


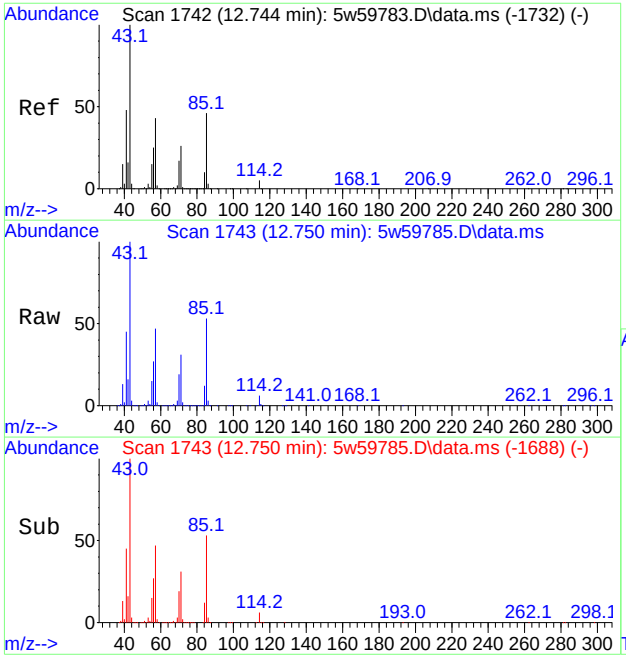


#75
1,2-DIBROMOETHANE
Concen: 40.93 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:107 Resp: 4750806

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

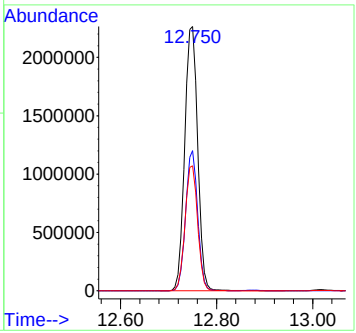


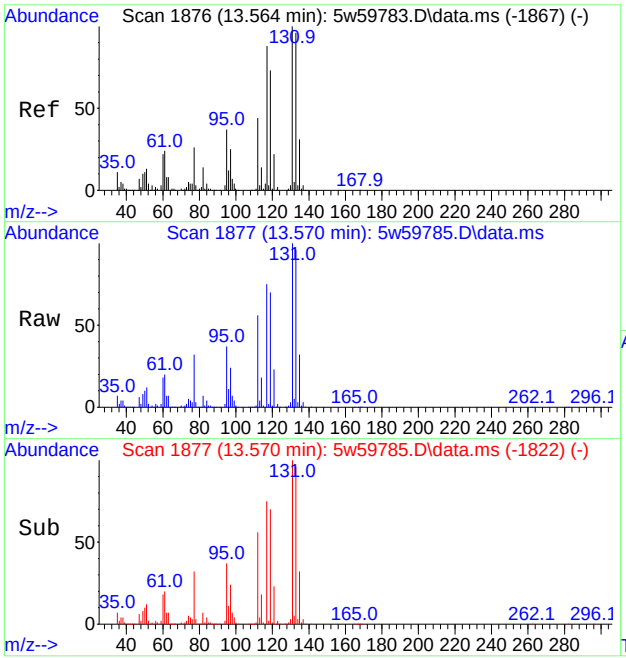


#76
OCTANE
Concen: 32.56 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4235557

Ion	Ratio	Lower	Upper
43	100		
85	49.4	14.6	74.6
57	46.0	13.7	73.7

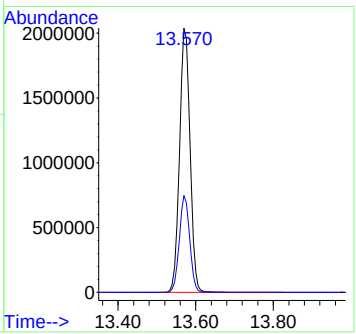


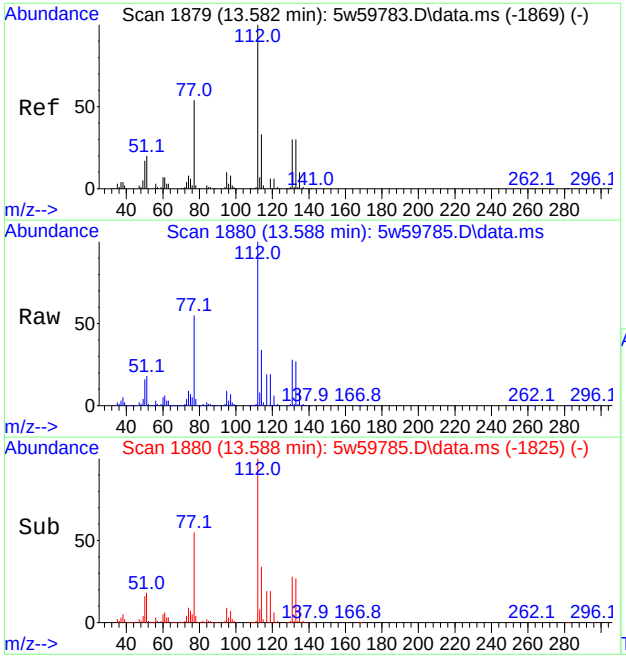


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 37.26 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:131 Resp: 3854037

Ion	Ratio	Lower	Upper
131	100		
95	36.3	6.5	66.5

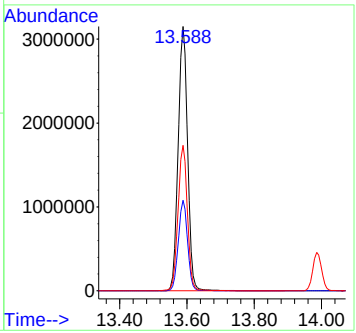


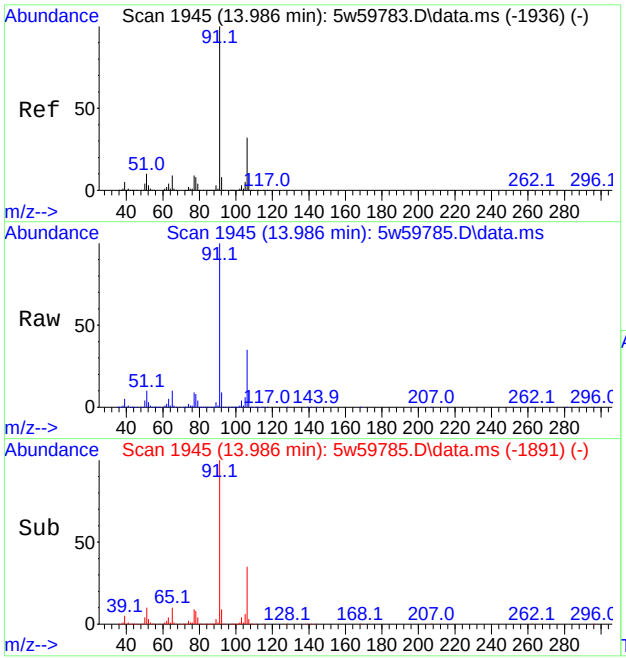


#78
CHLOROBENZENE
Concen: 35.87 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:112 Resp: 6101033

Ion	Ratio	Lower	Upper
112	100		
114	33.7	2.6	62.6
77	55.0	25.4	85.4

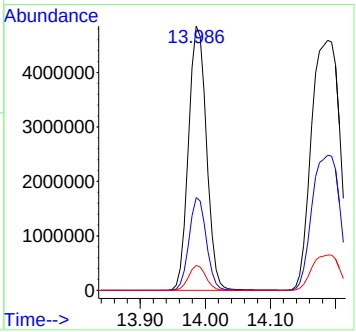


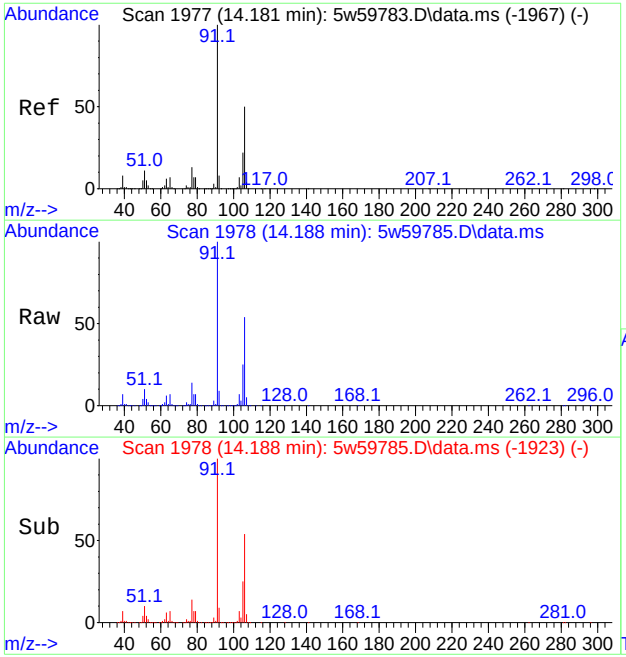


#79
ETHYLBENZENE
Concen: 38.31 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 9323124

Ion	Ratio	Lower	Upper
91	100		
106	33.7	1.3	61.3
77	9.0	0.0	38.6

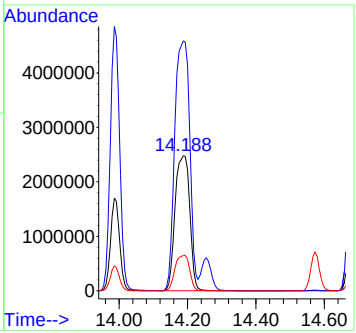


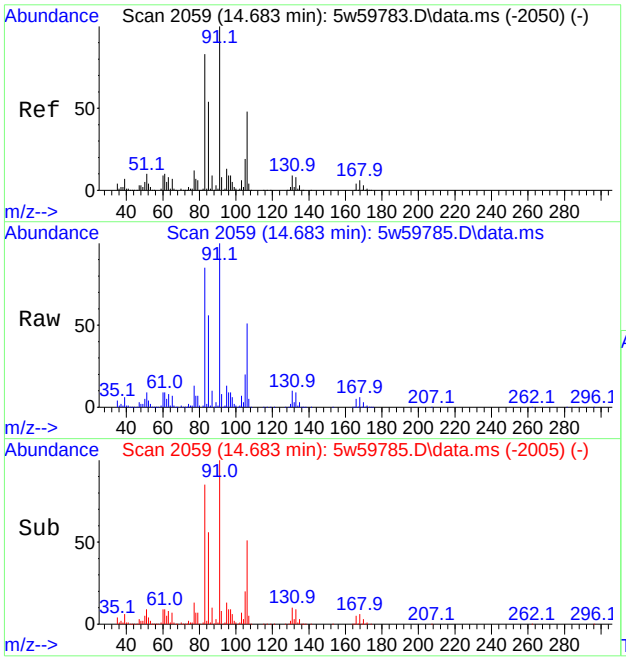


#80
m,p-XYLENE
Concen: 79.24 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 7385992

Ion	Ratio	Lower	Upper
106	100		
91	184.9	171.0	231.0
77	26.2	0.0	56.7

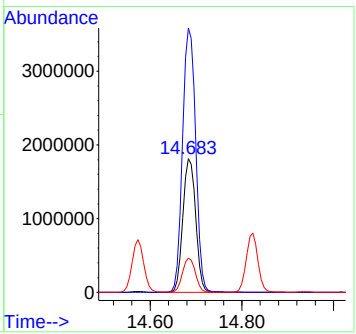


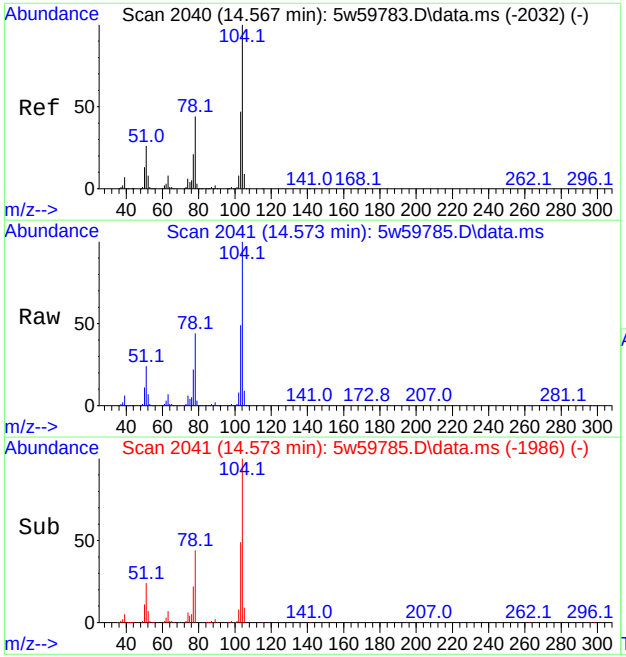


#81
o-XYLENE
Concen: 41.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 3531781

Ion	Ratio	Lower	Upper
106	100		
91	202.6	181.6	241.6
77	25.7	0.0	56.6

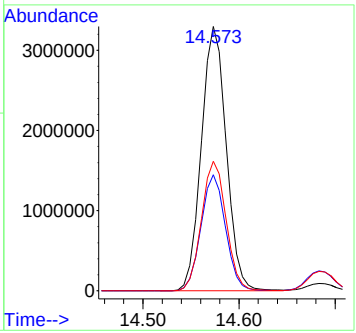


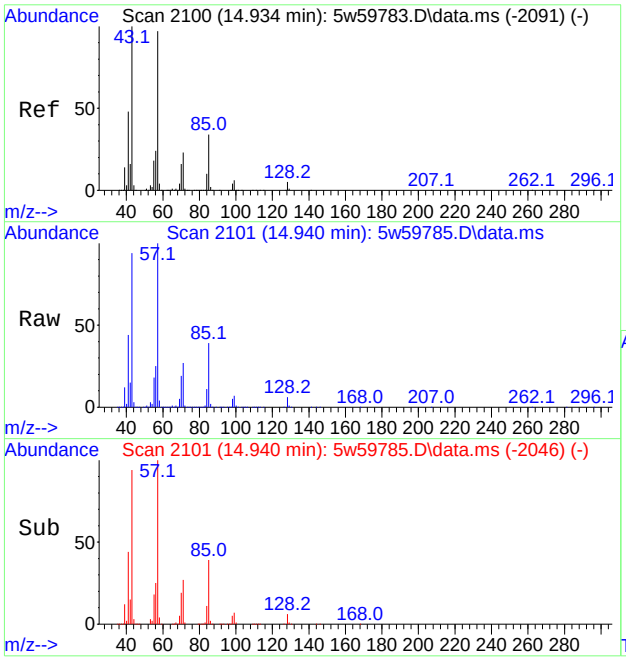


#82
STYRENE
Concen: 45.55 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:104 Resp: 5945197

Ion	Ratio	Lower	Upper
104	100		
78	43.2	13.3	73.3
103	48.5	17.2	77.2

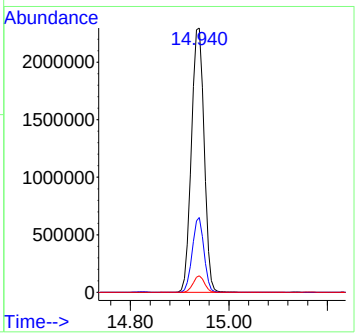


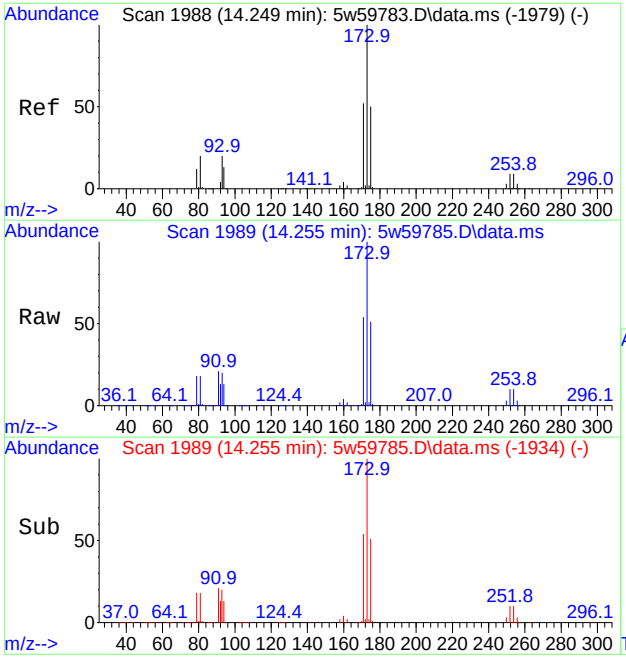


#83
NONANE
Concen: 31.95 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4120325

Ion	Ratio	Lower	Upper
43	100		
71	26.0	0.0	52.7
128	5.7	0.0	34.7

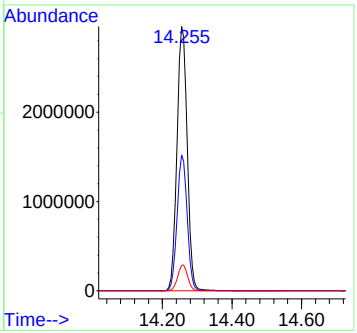


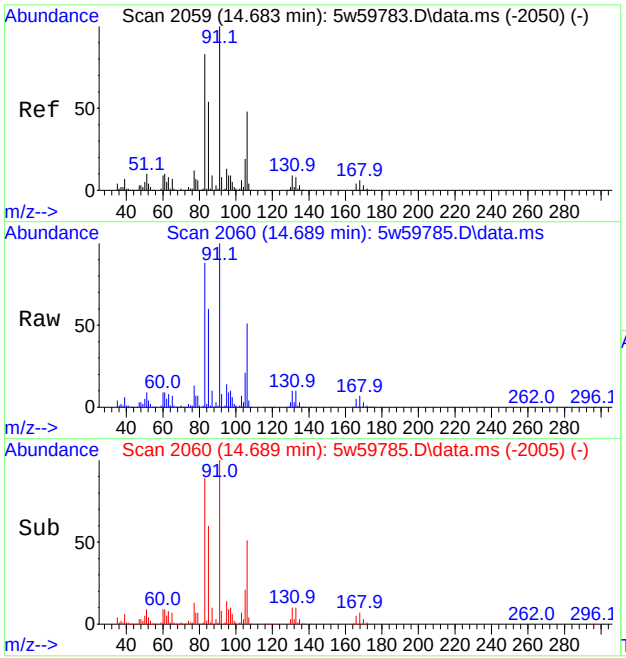


#84
BROMOFORM
Concen: 37.29 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:173 Resp: 6063084

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	9.5	0.0	39.0

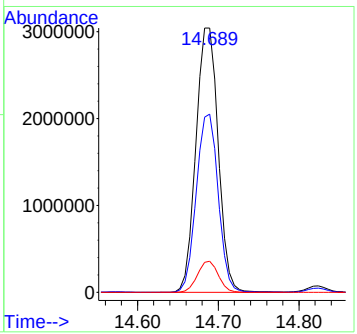


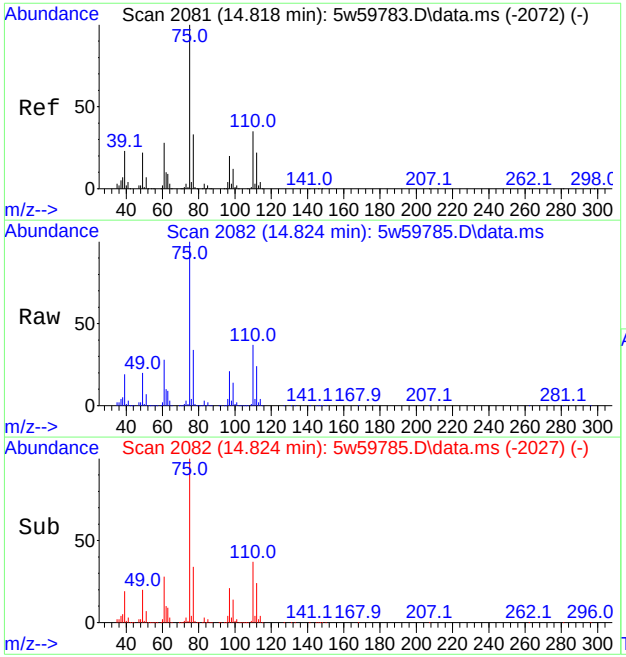


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 38.41 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 5834633

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.2	95.2
131	11.1	0.0	40.3

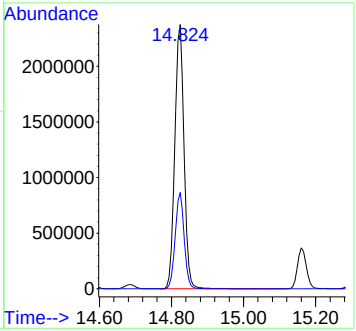


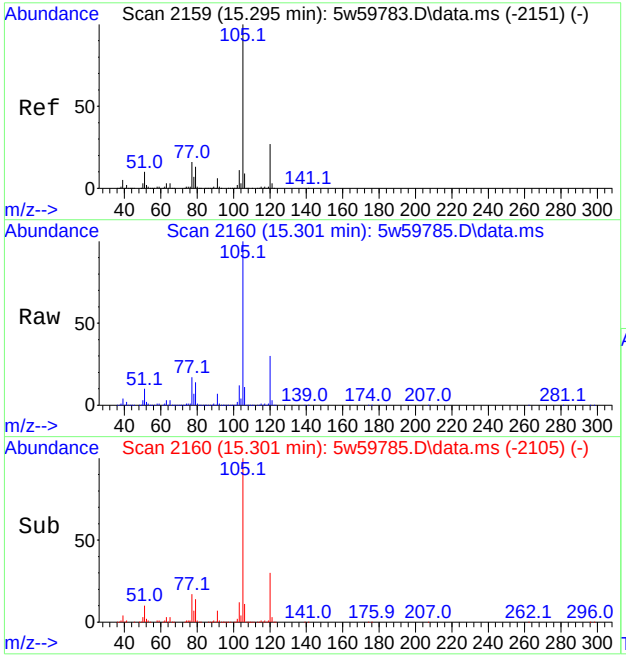


#87
1,2,3-TRICHLOROPROPANE
Concen: 33.30 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4239056

Ion	Ratio	Lower	Upper
75	100		
110	35.6	4.4	64.4

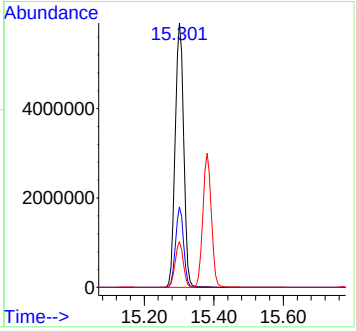


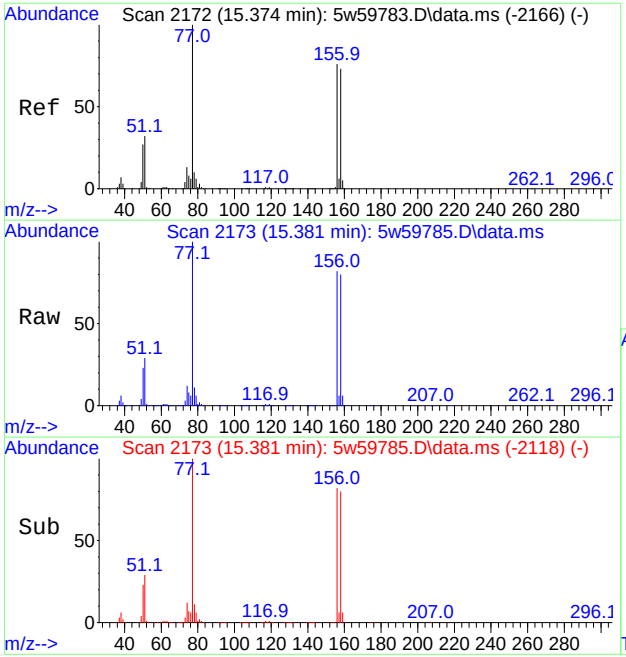


#88
ISOPROPYLBENZENE
Concen: 35.54 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp:10105051

Ion	Ratio	Lower	Upper
105	100		
120	28.8	0.0	56.0
77	16.4	0.0	45.6

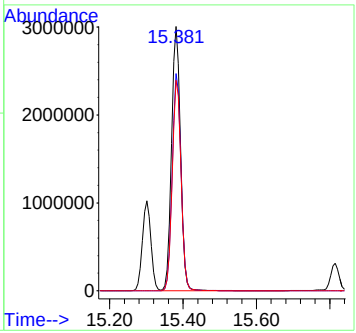


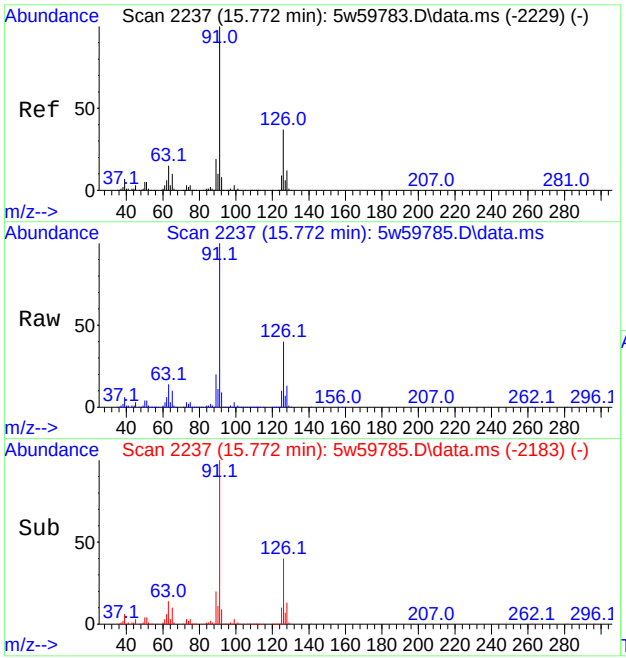


#89
BROMOBENZENE
Concen: 34.24 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 77 Resp: 5092227

Ion	Ratio	Lower	Upper
77	100		
156	81.3	54.9	101.9
158	79.0	53.5	99.3

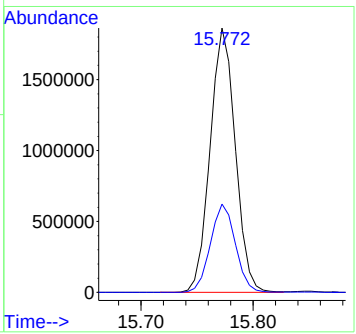


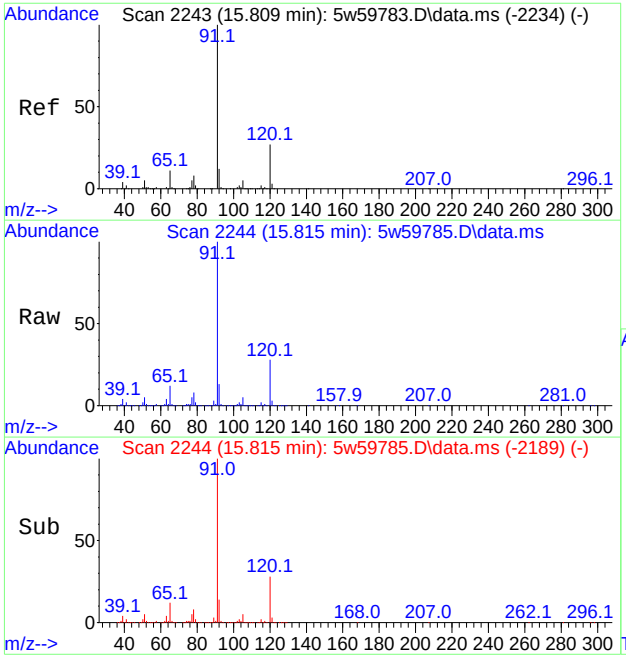


#90
2-CHLOROTOLUENE
Concen: 38.46 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:126 Resp: 2919479

Ion	Ratio	Lower	Upper
126	100		
128	33.1	2.7	62.7

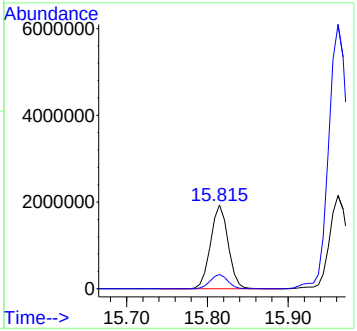


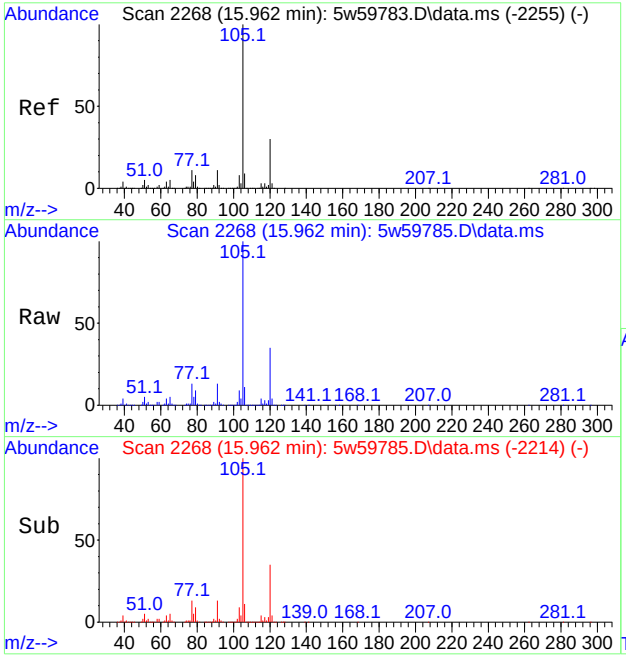


#91
n-PROPYLBENZENE
Concen: 38.73 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:120 Resp: 2929586

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

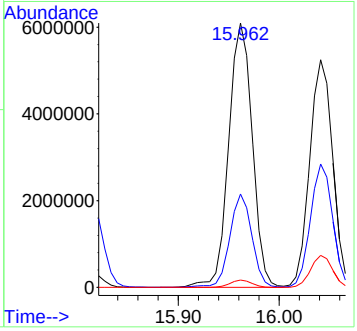


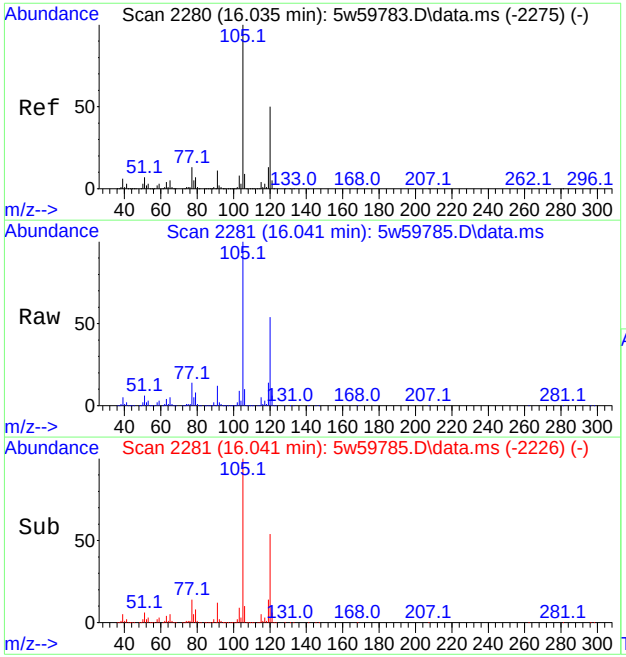


#92
4-ETHYLTOLUENE
Concen: 38.91 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 9932010

Ion	Ratio	Lower	Upper
105	100		
120	33.0	0.0	59.9
119	2.6	0.0	32.3

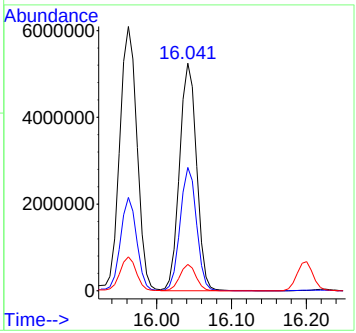


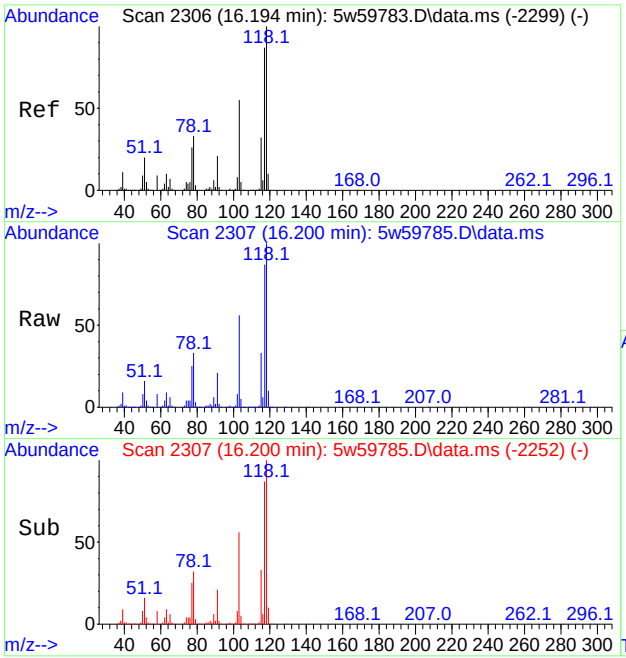


#93
1,3,5-TRIMETHYLBENZENE
Concen: 35.08 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 8308295

Ion	Ratio	Lower	Upper
105	100		
120	52.2	19.4	79.4
91	11.1	0.0	40.8

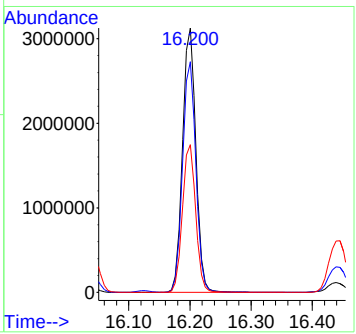


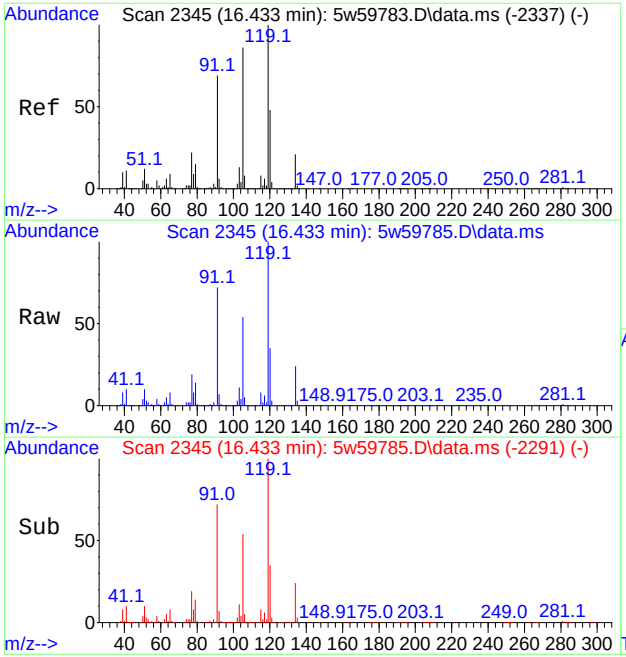


#94
ALPHA-METHYLSTYRENE
Concen: 41.57 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:118 Resp: 4732251

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.7	38.6	71.8

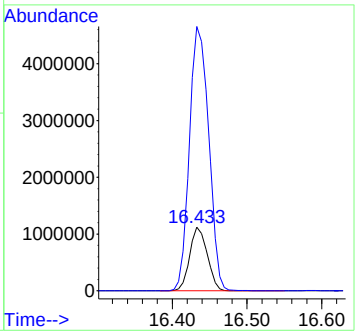


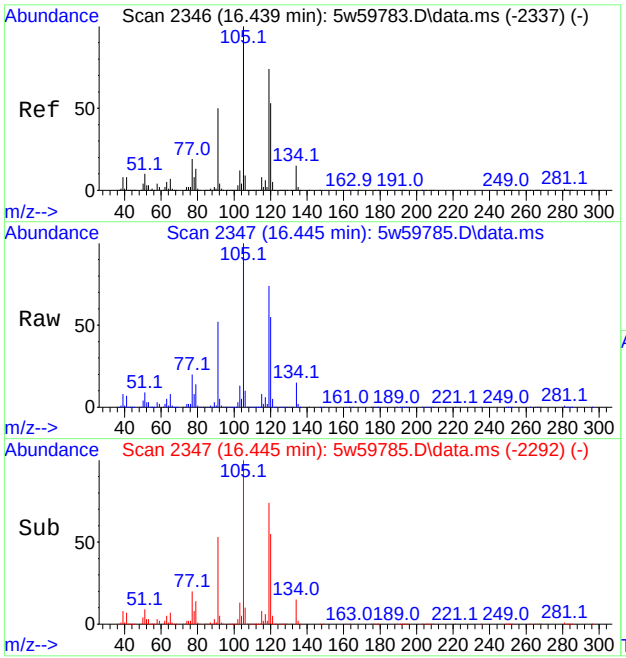


#95
tert-BUTYLBENZENE
Concen: 37.13 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 1826681

Ion	Ratio	Lower	Upper
134	100		
119	457.8	459.3	519.3#

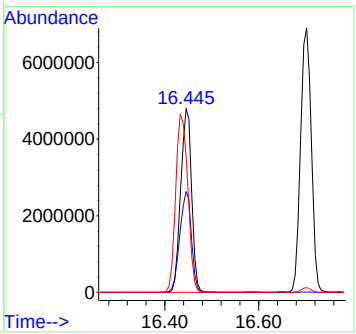


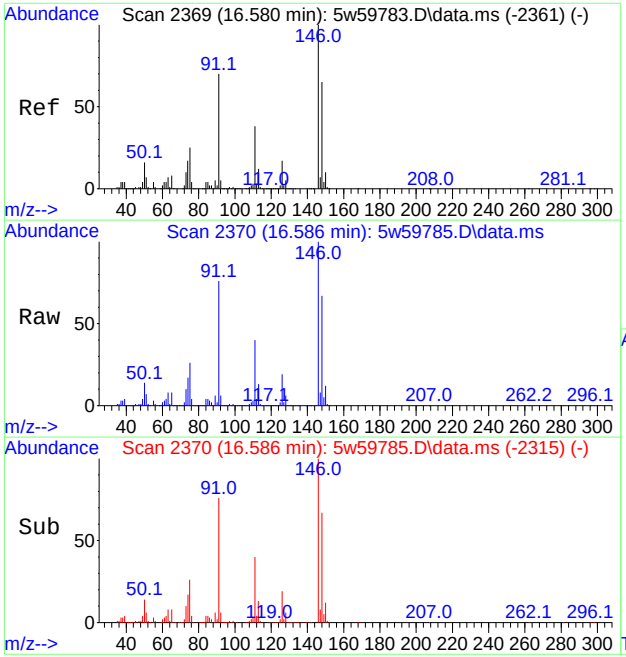


#96
1,2,4-TRIMETHYLBENZENE
Concen: 33.90 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7744703

Ion	Ratio	Lower	Upper
105	100		
120	58.3	25.7	85.7
119	108.0	75.7	135.7

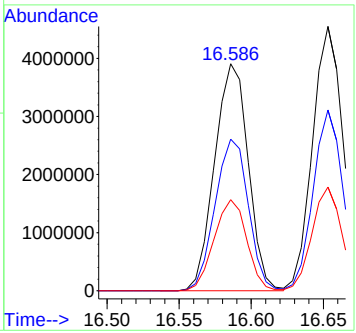


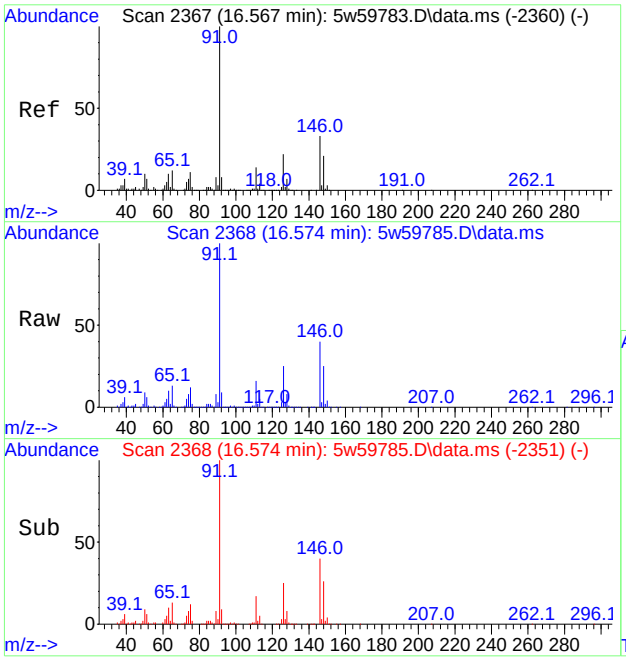


#97
m-DICHLOROBENZENE
Concen: 34.54 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6361294

Ion	Ratio	Lower	Upper
146	100		
148	66.1	34.8	94.8
111	39.0	8.2	68.2

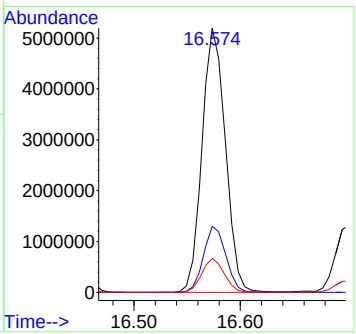


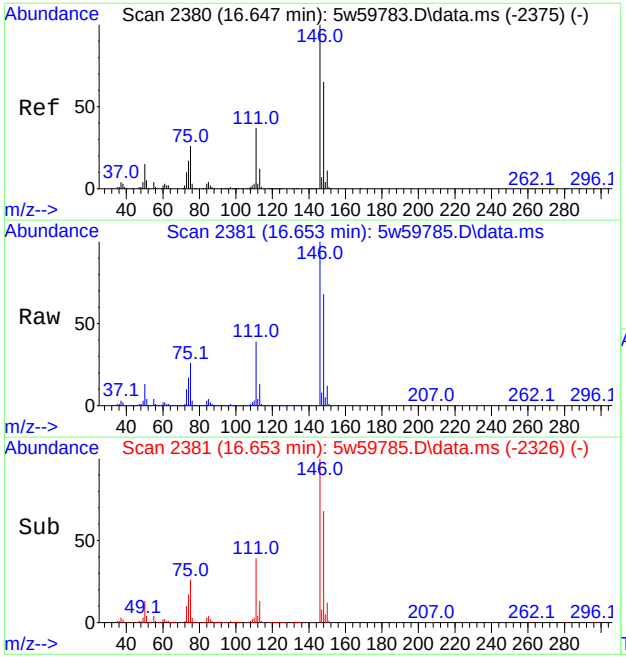


#98
BENZYL CHLORIDE
Concen: 38.06 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 7942485

Ion	Ratio	Lower	Upper
91	100		
126	24.0	0.0	51.7
65	12.3	0.0	42.2

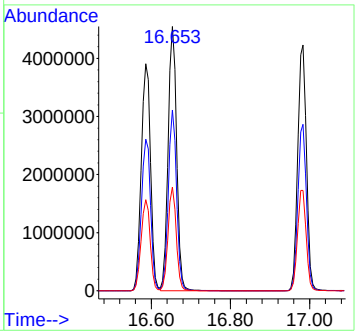


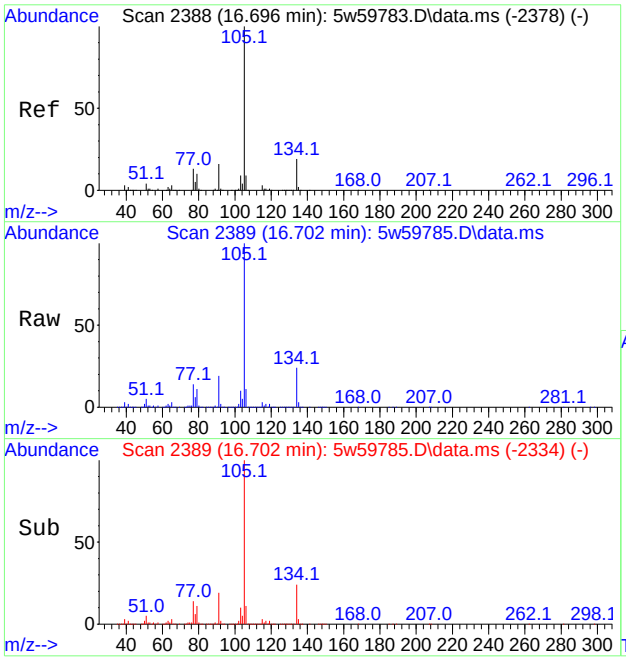


#99
p-DICHLOROBENZENE
Concen: 35.68 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6796416

Ion	Ratio	Lower	Upper
146	100		
148	66.6	34.6	94.6
111	38.0	6.7	66.7

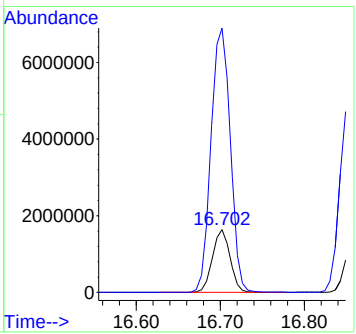


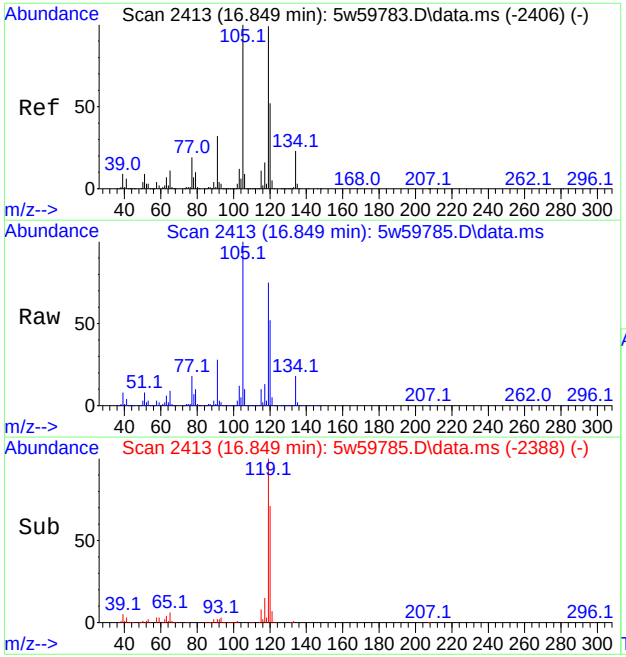


#100
sec-BUTYLBENZENE
Concen: 37.89 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2382473

Ion	Ratio	Lower	Upper
134	100		
105	462.5	502.5	562.5#

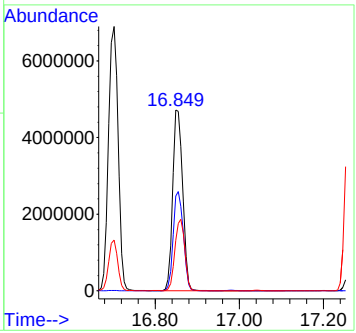


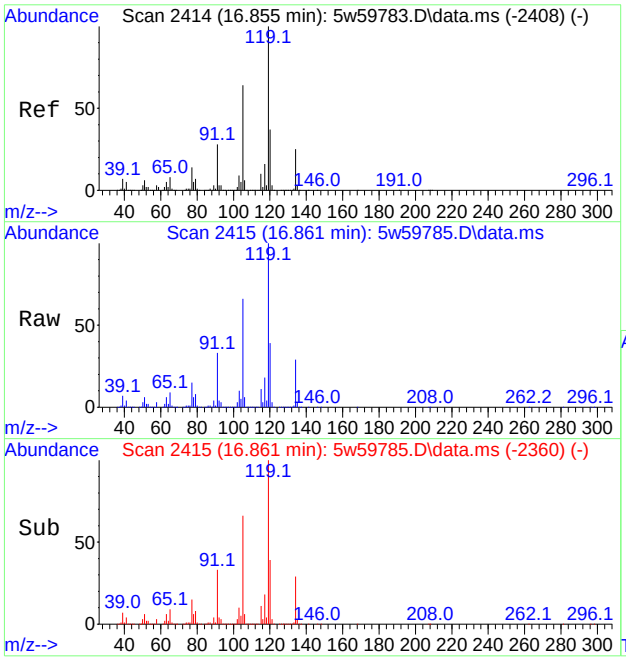


#101
1,2,3-TRIMETHYLBENZENE
Concen: 32.09 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7842082

Ion	Ratio	Lower	Upper
105	100		
120	55.3	23.5	83.5
91	38.9	7.4	67.4

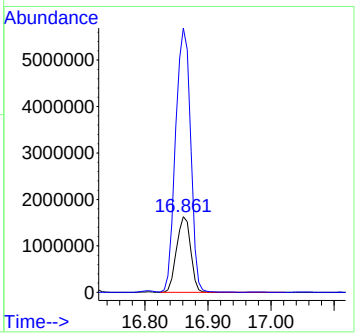


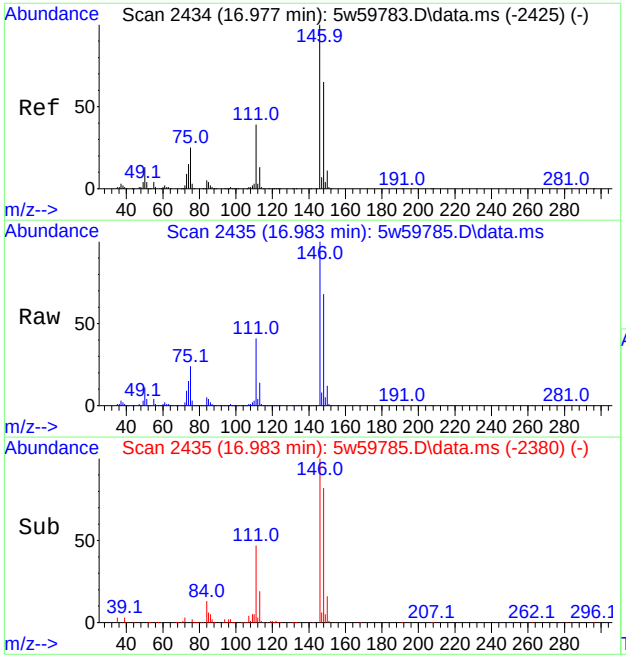


#102
p-ISOPROPYLTOLUENE
Concen: 35.07 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2537472

Ion	Ratio	Lower	Upper
134	100		
119	372.6	377.7	437.7#

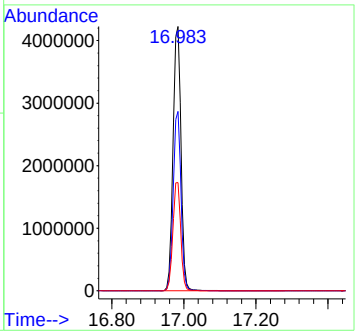


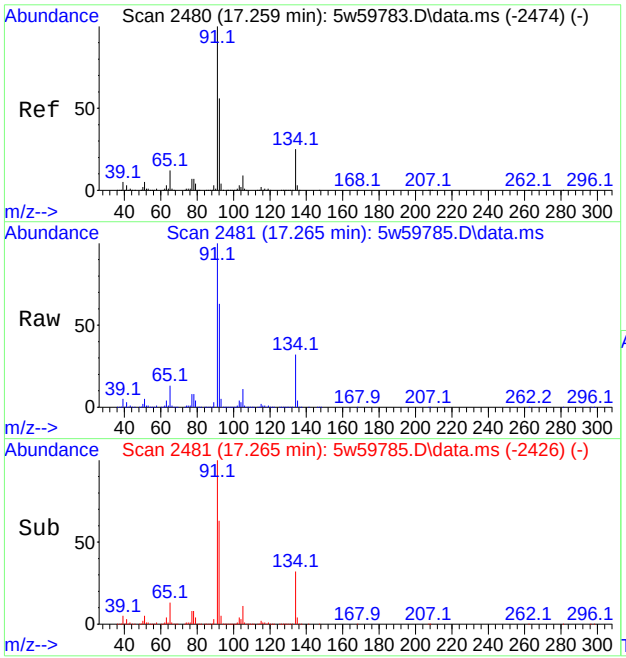


#103
o-DICHLOROBENZENE
Concen: 34.67 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6444852

Ion	Ratio	Lower	Upper
146	100		
148	66.3	34.3	94.3
111	40.6	9.2	69.2

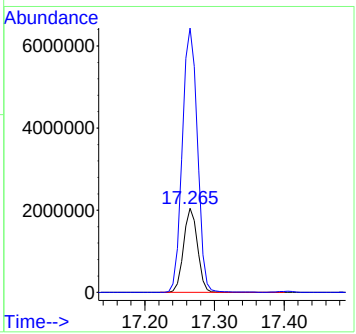


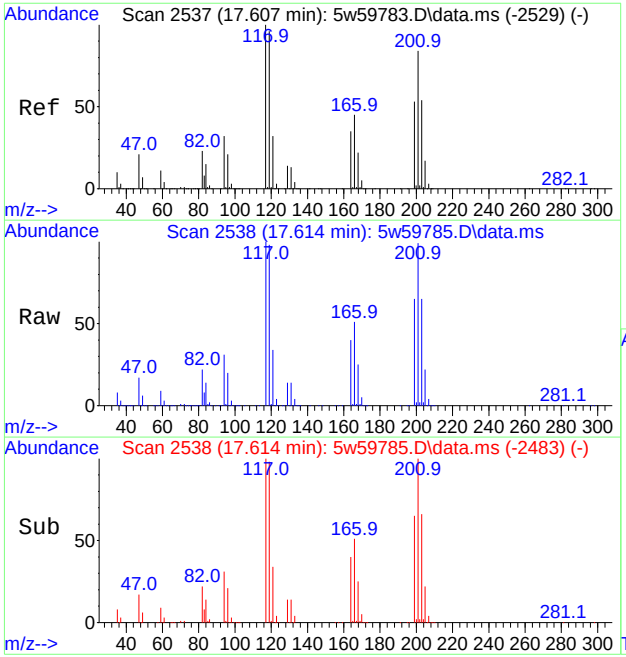


#104
n-BUTYLBENZENE
Concen: 43.05 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2846318

Ion	Ratio	Lower	Upper
134	100		
91	341.3	363.1	423.1#

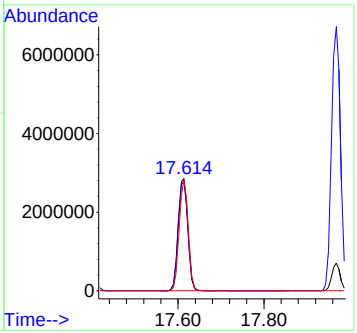


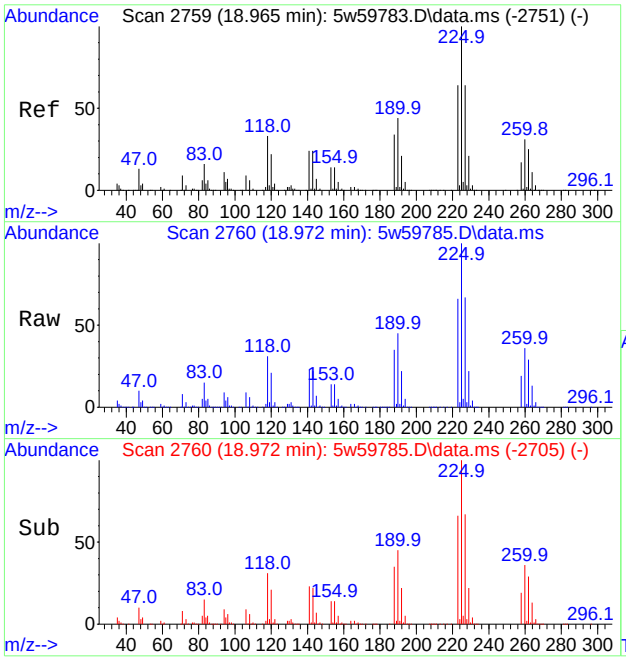


#105
HEXACHLOROETHANE
Concen: 36.00 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4455103

Ion	Ratio	Lower	Upper
117	100		
119	96.9	67.2	124.8
201	93.1	61.1	113.5

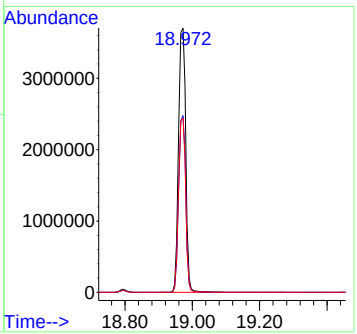


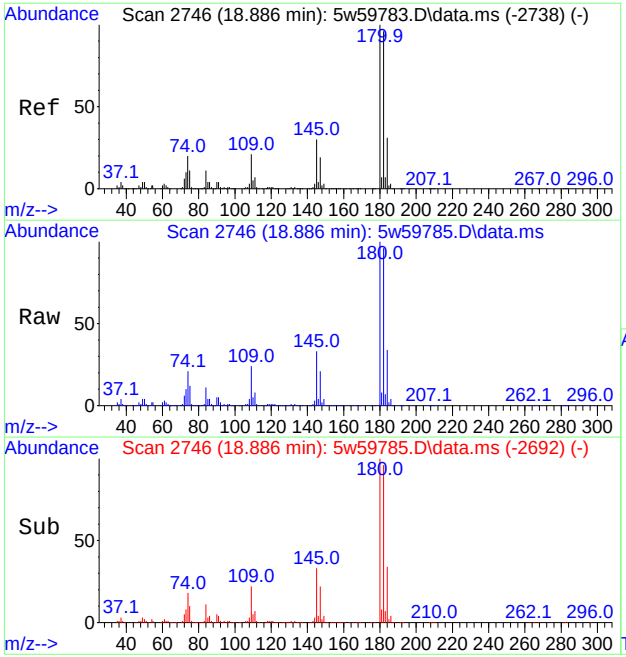


#106
HEXACHLOROBUTADIENE
Concen: 28.29 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:225 Resp: 5455879

Ion	Ratio	Lower	Upper
225	100		
227	65.9	34.2	94.2
223	65.2	33.3	93.3

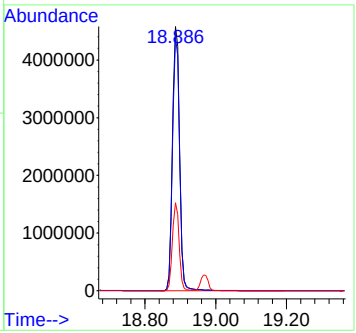


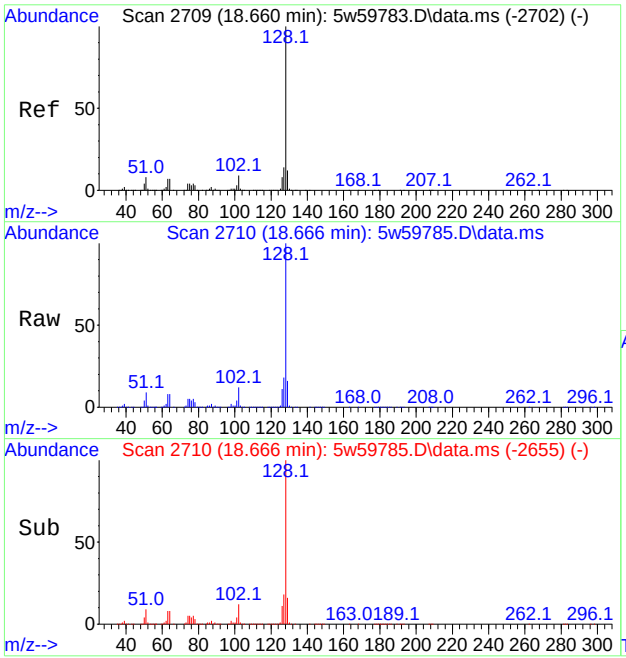


#107
1,2,4-TRICHLOROBENZENE
Concen: 48.55 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:180 Resp: 6383531

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	31.5	0.0	59.4

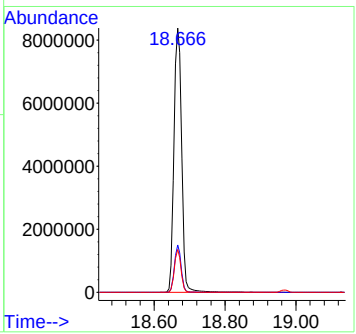


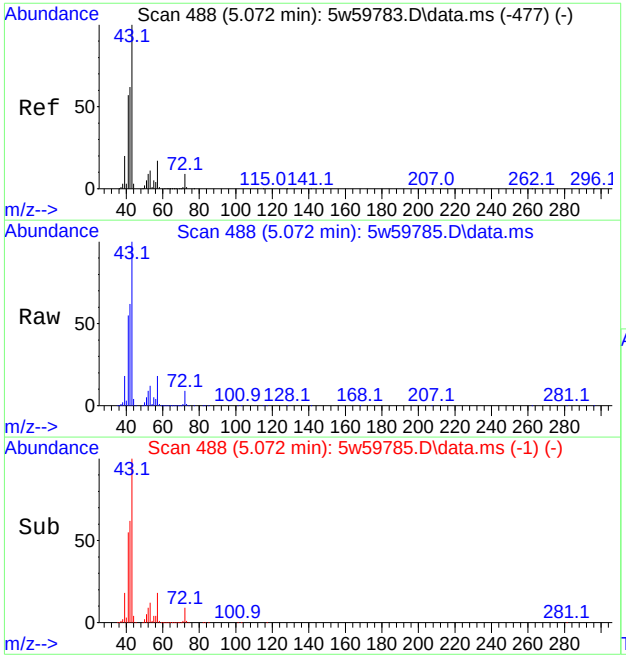


#108
NAPHTHALENE
Concen: 41.10 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:128 Resp:12695949

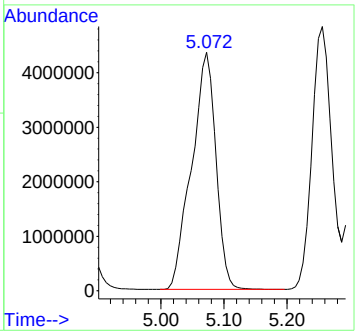
Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	43.3
129	14.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 33.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:TIC Resp:11631459



Manual Integration Approval Summary

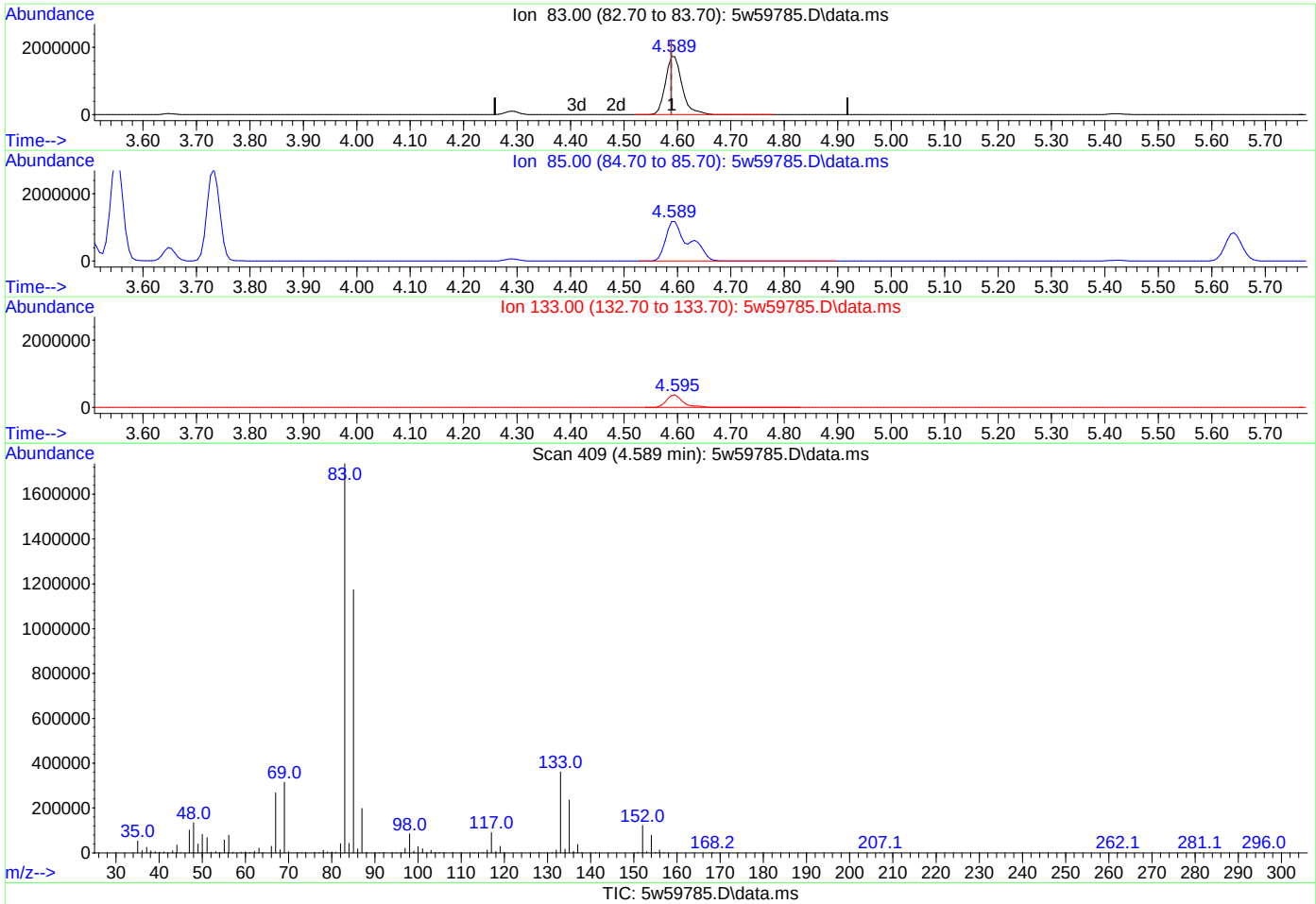
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59785.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:54 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV

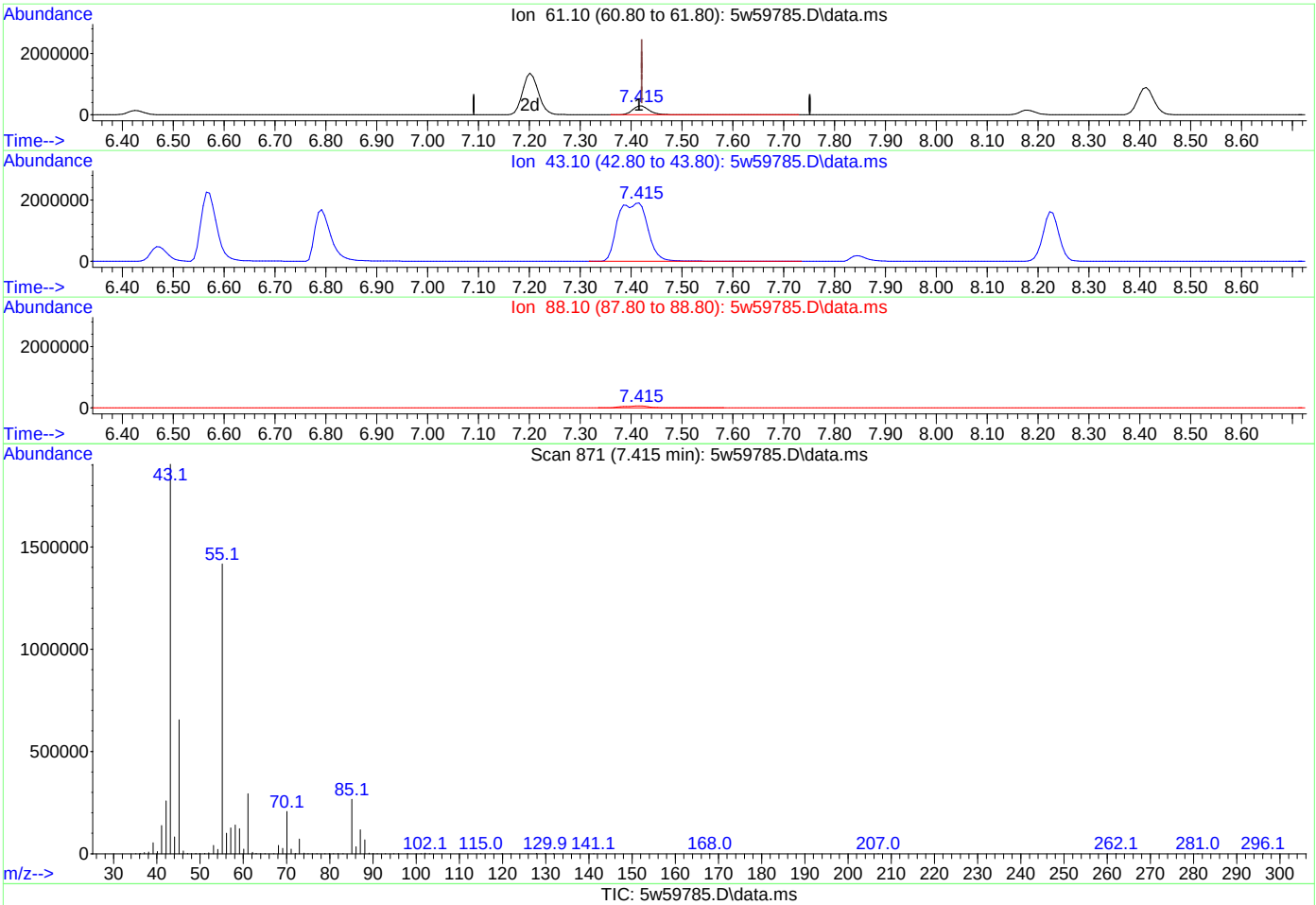
response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.18#
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV

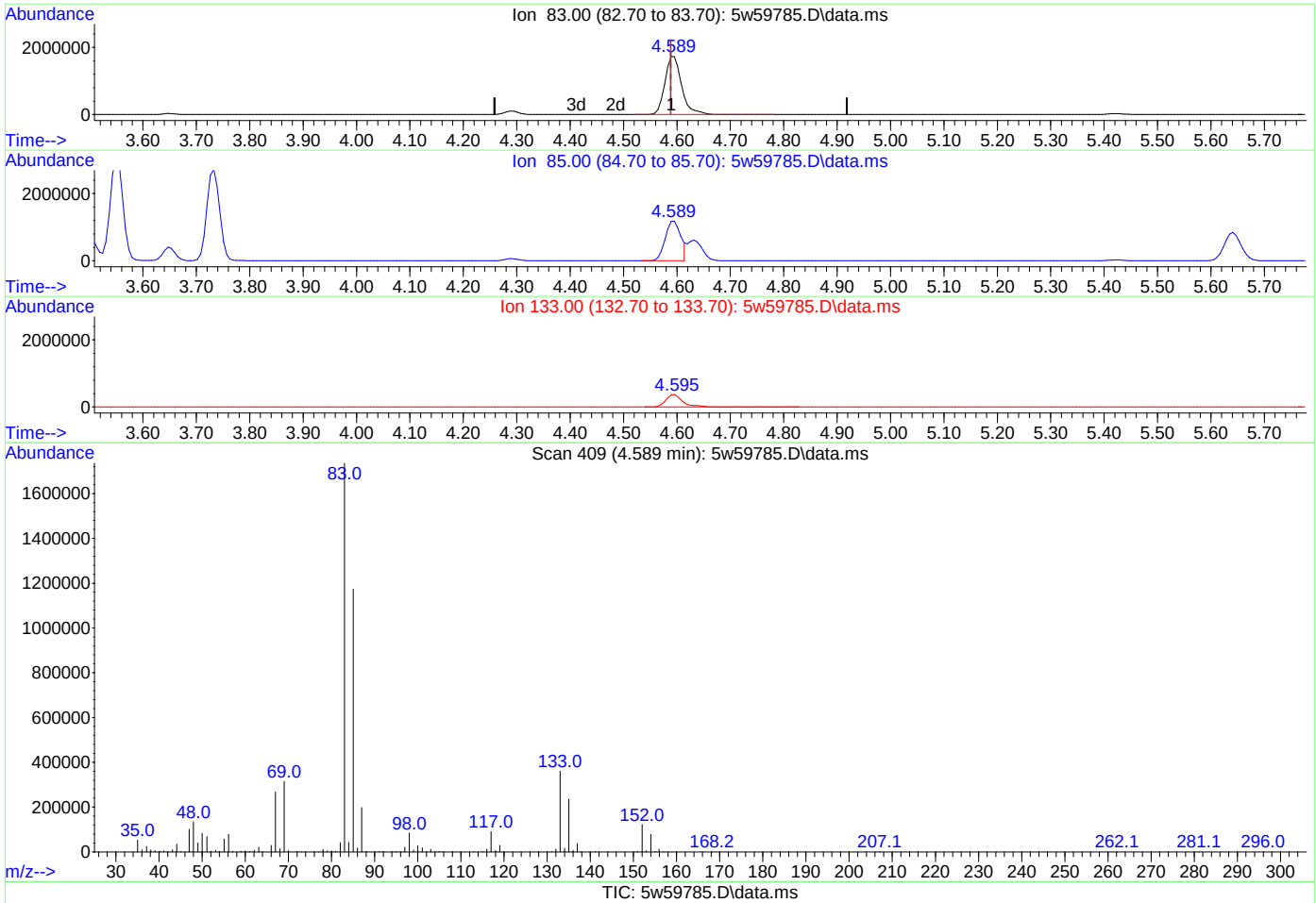
response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1167.91#
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV m

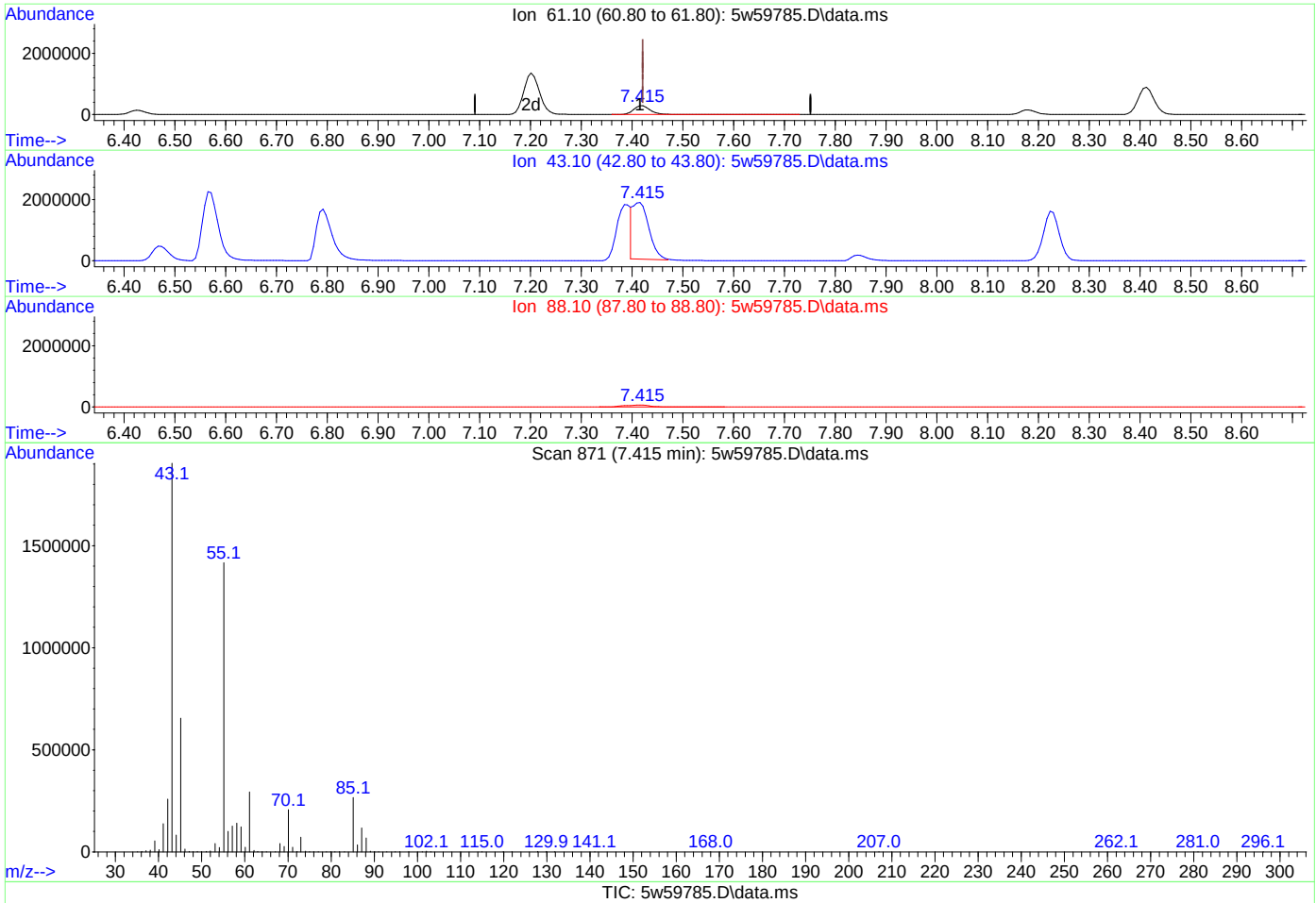
response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.60
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV m

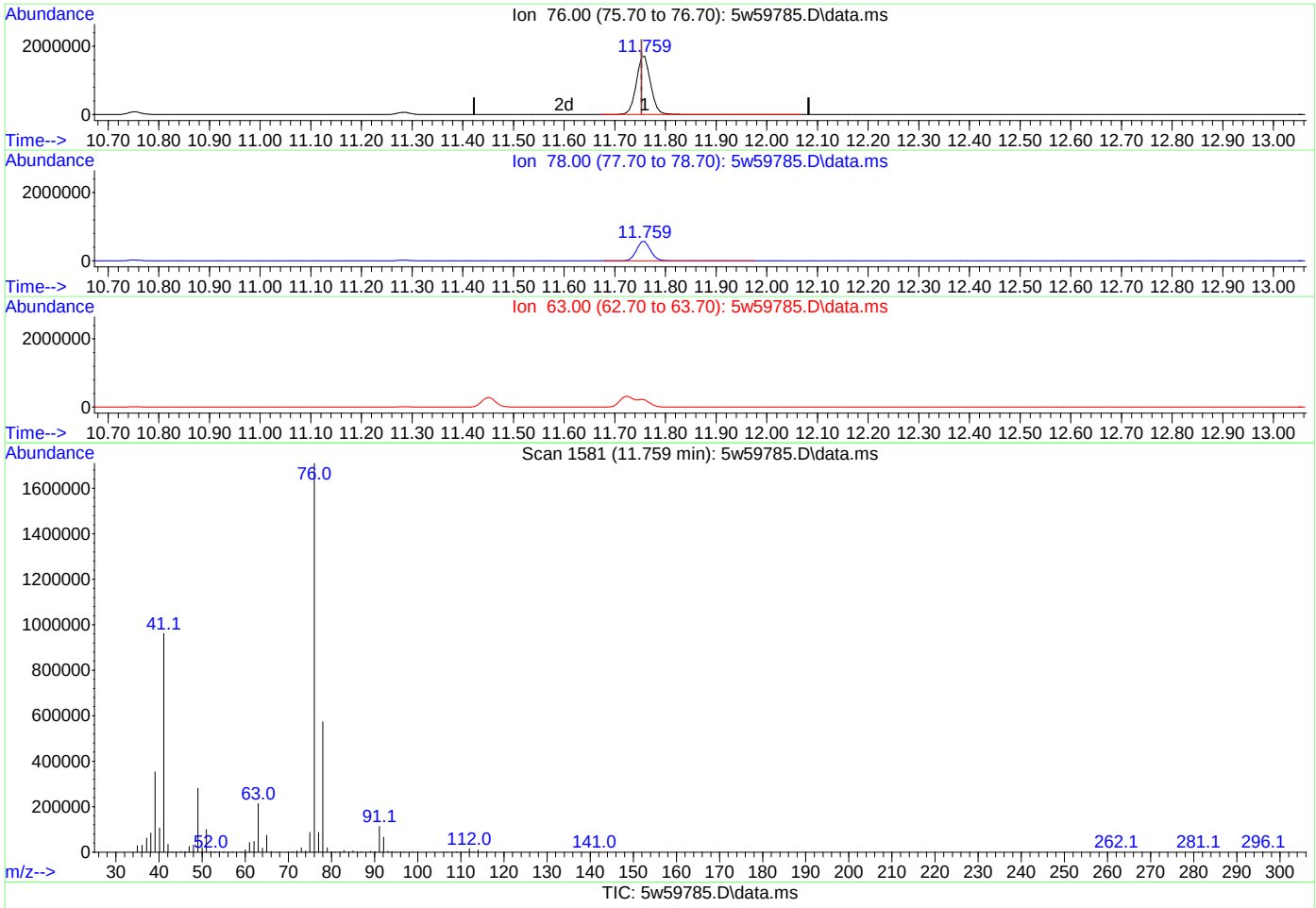
response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	592.51
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV

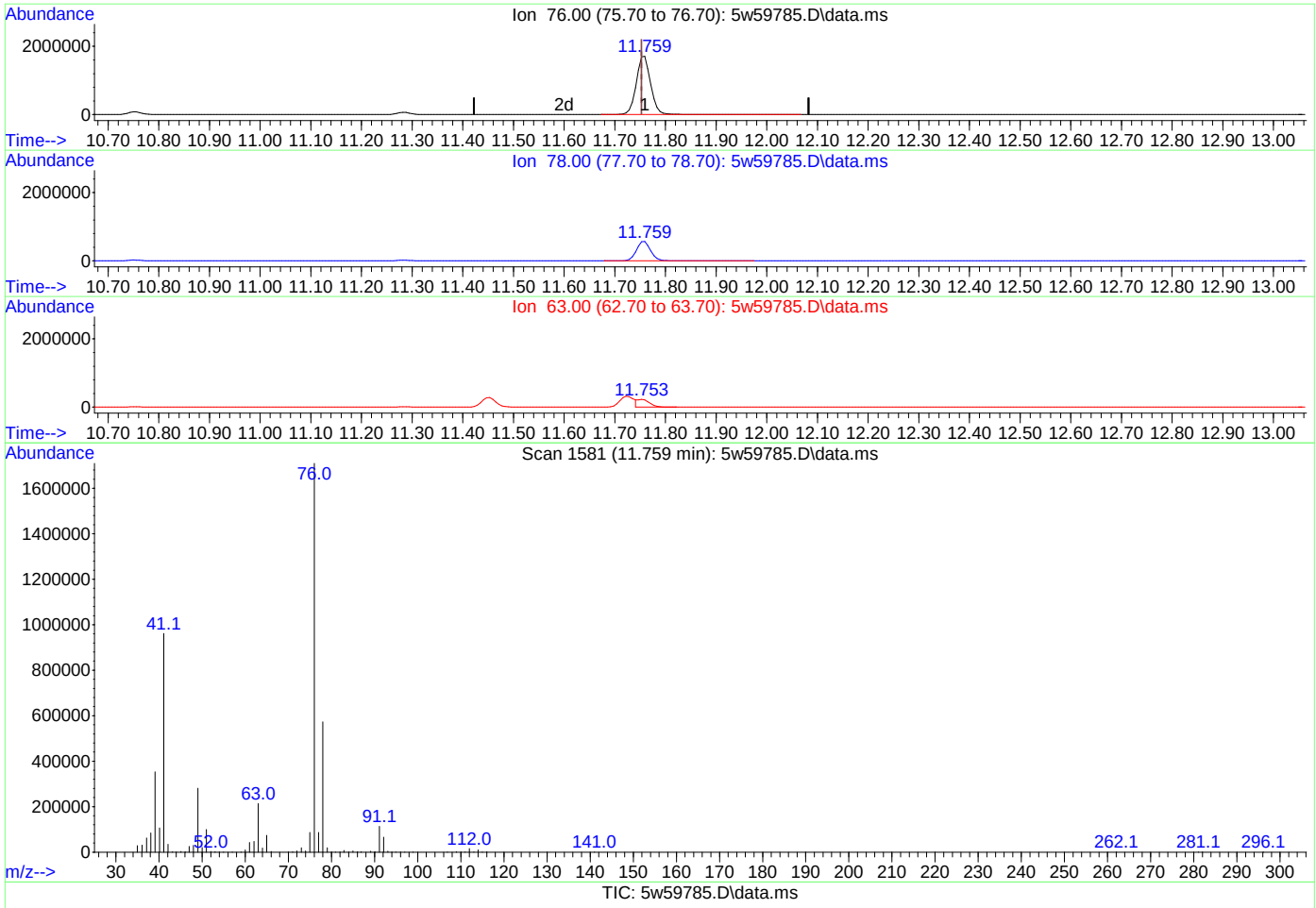
response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV m

response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	11.06
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.360	128	467162	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1929313	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1280918	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	467697	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.160	95	1403075	8.83	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 88.30%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	512492	7.63	PPBV		99
3) FREON 152A	3.445	65	1696184	36.17	PPBV		95
4) CHLORODIFLUOROMETHANE	3.475	67	765807	35.25	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.500	116	3809315	35.53	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	6454003	31.33	PPBV		97
7) PROPYLENE	3.494	41	1647441	32.49	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	4644392	27.21	PPBV		99
9) FREON 114	3.726	85	5332552	28.55	PPBV		96
10) CHLOROMETHANE	3.659	52	593159	28.33	PPBV		99
11) VINYL CHLORIDE	3.812	62	2006744	28.44	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1201486	27.81	PPBV		98
13) n-BUTANE	3.940	43	1865429	24.94	PPBV		98
14) BROMOMETHANE	4.099	94	2201552	30.01	PPBV		100
15) CHLOROETHANE	4.222	64	910647	29.04	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	4344933	28.26	PPBV		99
17) ACETONITRILE	4.479	41	1047676	24.43	PPBV		99
18) ACROLEIN	4.564	56	630972	24.71	PPBV		96
19) FREON 123	4.589	83	4570353m	27.57	PPBV		
20) FREON 123A	4.632	117	2921341	29.40	PPBV		93
21) TRICHLOROFLUOROMETHANE	4.791	101	5263086	26.51	PPBV		99
22) ISOPROPYL ALCOHOL	4.870	45	3712437	25.25	PPBV		100
23) ACETONE	4.668	58	738868	25.68	PPBV		96
24) PENTANE	5.072	42	2159289	29.26	PPBV		97
25) IODOMETHANE	5.250	142	7543155	35.46	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2443503	33.22	PPBV		95
27) CARBON DISULFIDE	5.672	76	6480951	33.10	PPBV		98
28) ETHANOL	4.320	45	668282	25.13	PPBV		99
29) BROMOETHENE	4.479	106	2216899	32.02	PPBV		100
30) ACRYLONITRILE	5.042	52	1601584	34.08	PPBV		99
31) METHYLENE CHLORIDE	5.421	84	2117266	32.13	PPBV		96
32) 3-CHLOROPROPENE	5.519	76	1102190	35.87	PPBV		90
33) FREON 113	5.641	151	4335347	33.71	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2566855	33.70	PPBV		97
35) TERTIARY BUTYL ALCOHOL	5.372	59	4270952	27.79	PPBV		99
36) METHYL TERTIARY BUTYL ...	6.467	73	6337595	33.80	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1023793	37.42	PPBV		97
38) HEXANE	7.379	57	3623516	34.89	PPBV		91
39) VINYL ACETATE	6.571	86	477066	39.37	PPBV	#	79
40) 1,1-DICHLOROETHANE	6.424	63	4545260	33.30	PPBV		99
41) METHYL ETHYL KETONE	6.791	72	1116320	39.33	PPBV	#	86
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2772689	35.23	PPBV		97
43) DIISOPROPYL ETHER	7.391	59	1134199	38.69	PPBV	#	77
44) ETHYL ACETATE	7.421	61	845012m	34.91	PPBV		
45) METHYL ACRYLATE	7.409	55	4442118	33.33	PPBV		96
46) CHLOROFORM	7.489	83	5265891	33.15	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.223	57	4372372	35.95	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	5674011	33.44	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	6150579	33.09	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	3745660	33.65	PPBV		99
52)	BENZENE	8.859	78	7354311	40.36	PPBV		99
53)	CYCLOHEXANE	9.110	84	2949070	40.67	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1522391	42.20	PPBV		93
55)	TRICHLOROETHYLENE	9.893	95	3632086	37.53	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	2868397	37.03	PPBV		99
57)	DIBROMOMETHANE	9.636	174	4006214	38.37	PPBV		98
58)	ETHYL ACRYLATE	9.685	55	5610538	37.54	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	6264555	37.04	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	10265949	34.27	PPBV		97
61)	1,4-DIOXANE	9.893	88	1571741	39.31	PPBV	#	1
62)	HEPTANE	10.193	43	3734901	36.15	PPBV		94
63)	METHYL METHACRYLATE	10.107	69	2494133	41.16	PPBV		96
64)	METHYL ISOBUTYL KETONE	10.786	58	2440543	38.84	PPBV		90
65)	cis-1,3-DICHLOROPROPENE	10.756	75	5041121	41.46	PPBV		91
66)	TOLUENE	11.722	92	5480196	41.16	PPBV		95
67)	1,3-DICHLOROPROPANE	11.759	76	4271872m	38.74	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	4565890	40.93	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.453	83	3077034	42.06	PPBV		100
71)	2-HEXANONE	12.010	58	3450029	32.66	PPBV		89
72)	ETHYL METHACRYLATE	12.028	69	4427593	33.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	4203511	31.36	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	7029117	30.46	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	5931699	33.98	PPBV		100
76)	OCTANE	12.750	43	5161401	28.88	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	4713028	31.92	PPBV		99
78)	CHLOROBENZENE	13.588	112	7439915	30.47	PPBV		99
79)	ETHYLBENZENE	13.992	91	11379916	31.54	PPBV		95
80)	m,p-XYLENE	14.194	106	9117454	65.12	PPBV		89
81)	o-XYLENE	14.689	106	4240336	32.29	PPBV		94
82)	STYRENE	14.573	104	7405410	37.26	PPBV		99
83)	NONANE	14.940	43	4961142	27.57	PPBV		91
84)	BROMOFORM	14.261	173	7504388	32.02	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	6869258	29.32	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	5400423	29.33	PPBV		96
88)	ISOPROPYLBENZENE	15.301	105	11977220	28.72	PPBV		94
89)	BROMOBENZENE	15.381	77	6360723	29.55	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	3685448	32.56	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	3584454	31.94	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	11670979	30.19	PPBV		93
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	9865714	28.34	PPBV		95
94)	ALPHA-METHYLSTYRENE	16.200	118	5900787	33.71	PPBV		99
95)	tert-BUTYLBENZENE	16.433	134	2122779	28.46	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	8886934	26.06	PPBV		97
97)	m-DICHLOROBENZENE	16.592	146	7359121	27.06	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	9095992	28.12	PPBV		96
99)	p-DICHLOROBENZENE	16.653	146	7993903	28.96	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	2827725	30.67	PPBV	#	70
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9024748	24.94	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	2924462	27.10	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	7985671	29.61	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	3481921	34.55	PPBV	#	72
105)	HEXACHLOROETHANE	17.614	117	5208368	28.92	PPBV		96
106)	HEXACHLOROBUTADIENE	18.972	225	6236008	22.78	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	7600427	32.01	PPBV		99
108)	NAPHTHALENE	18.666	128	14205927	26.02	PPBV		91
110)	TVHC as equiv Pentane	5.066	TIC	14466620	31.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

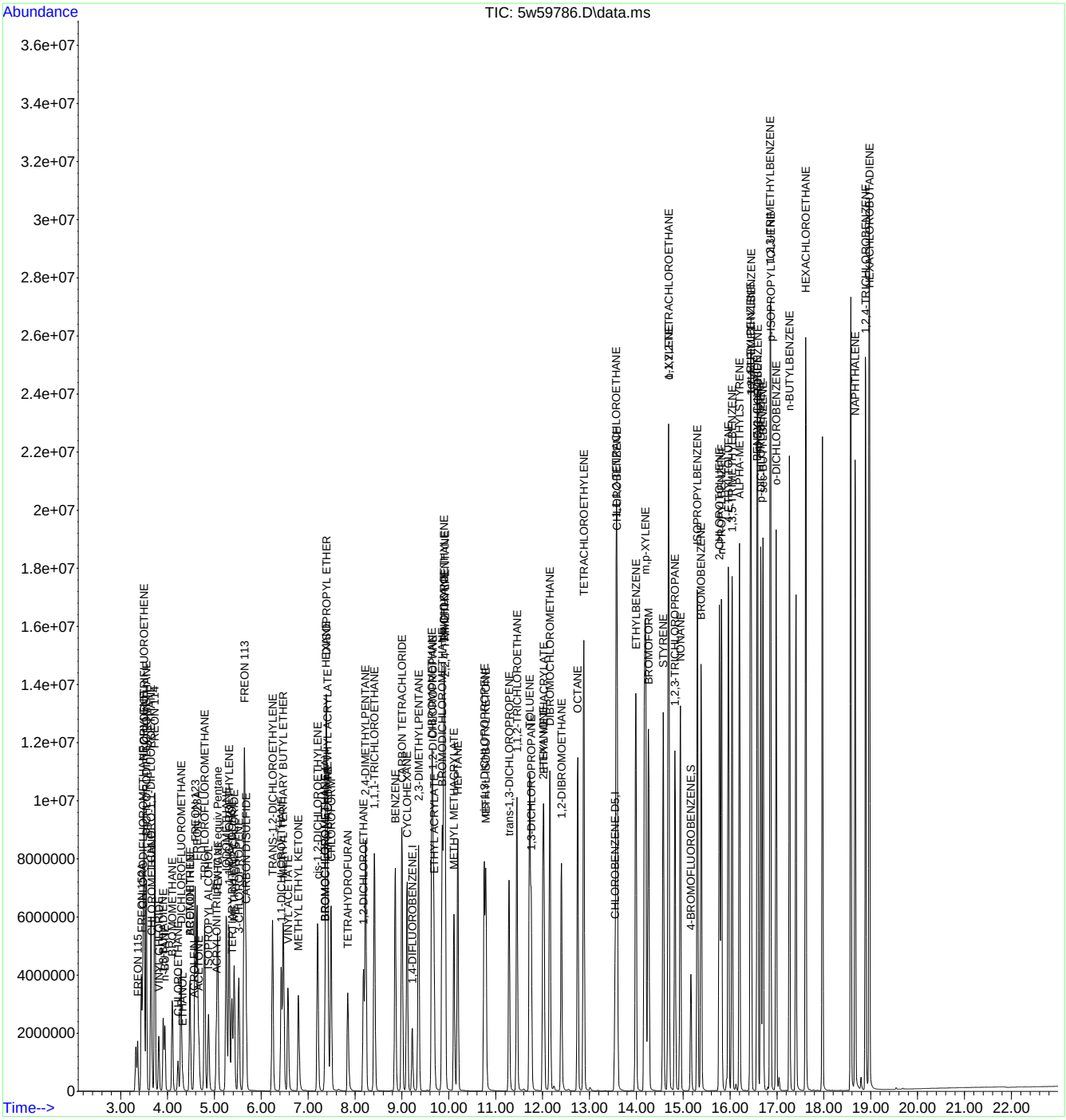
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

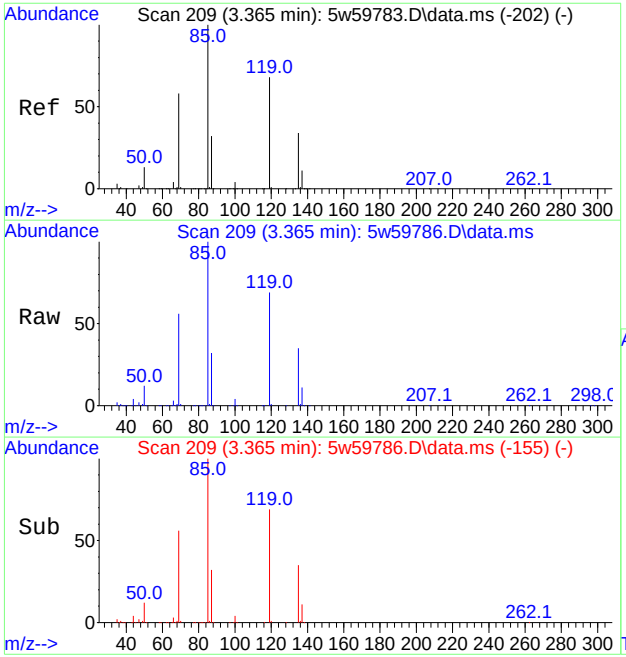
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

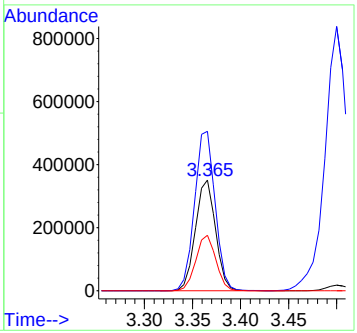


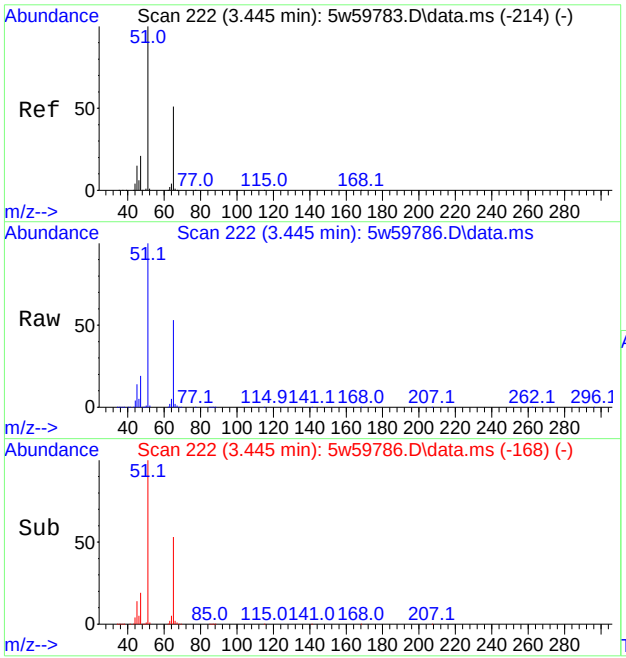


#2
FREON 115
Concen: 7.63 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:119 Resp: 512492

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.1	20.6	80.6

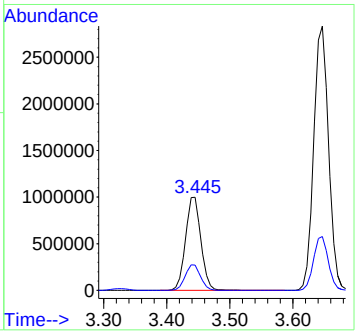


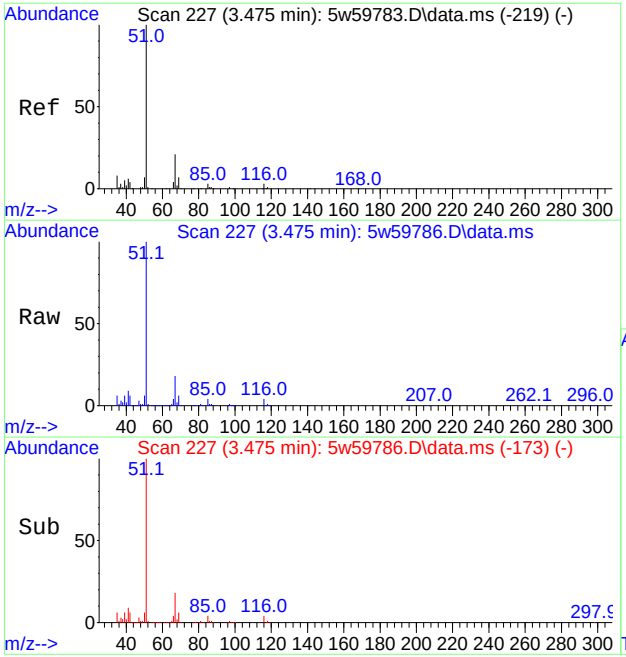


#3
FREON 152A
Concen: 36.17 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 1696184

Ion	Ratio	Lower	Upper
65	100		
45	27.4	0.0	60.0

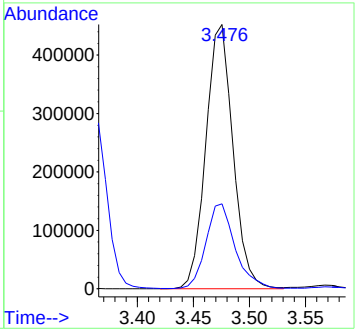


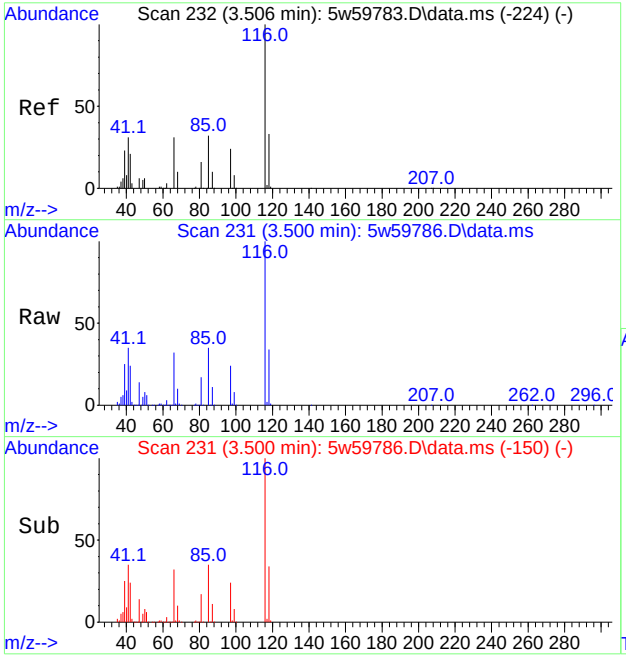


#4
CHLORODIFLUOROMETHANE
Concen: 35.25 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 765807

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

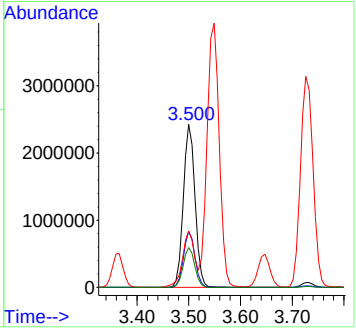


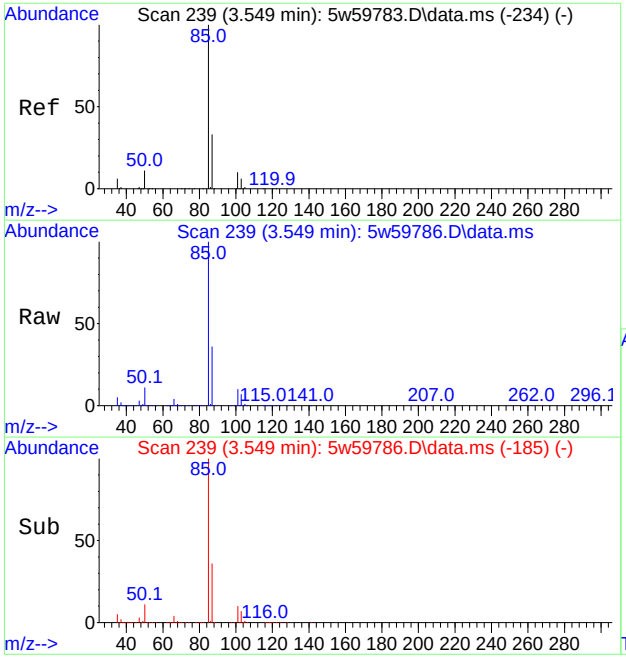


#5
CHLOROTRIFLUOROETHENE
Concen: 35.53 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:116 Resp: 3809315

Ion	Ratio	Lower	Upper
116	100		
118	33.7	22.9	42.5
85	36.0	23.7	44.1
97	24.2	17.0	31.6

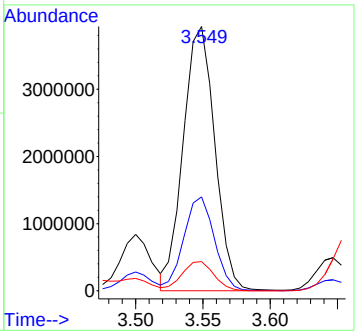


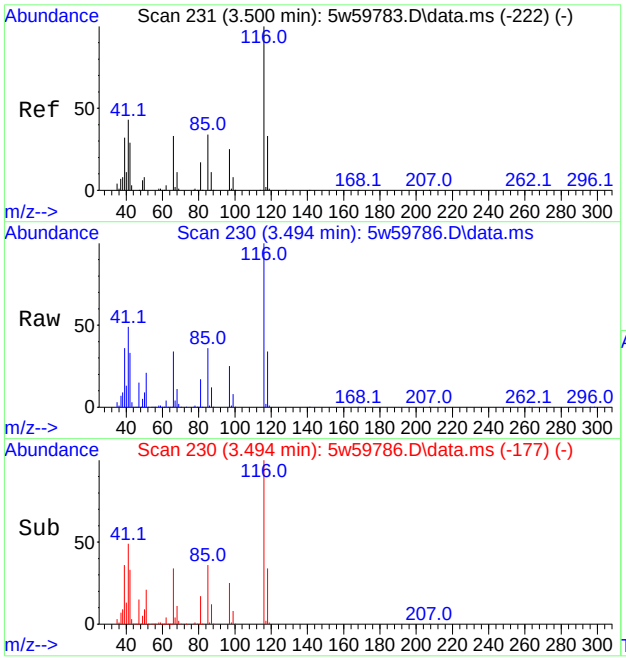


#6
DICHLORODIFLUOROMETHANE
Concen: 31.33 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 6454003

Ion	Ratio	Lower	Upper
85	100		
87	34.5	2.5	62.5
50	11.2	0.0	41.7

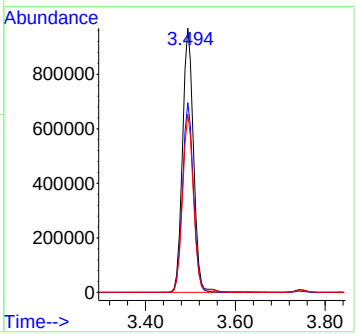


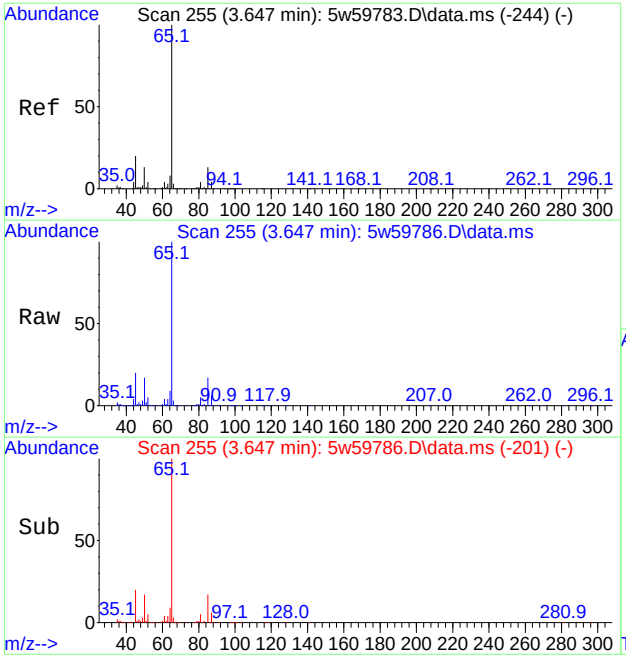


#7
PROPYLENE
Concen: 32.49 PPBV
RT: 3.494 min Scan# 230
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1647441

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.1	36.3	96.3

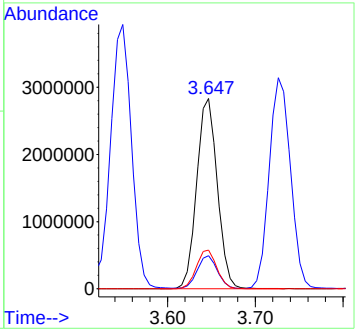


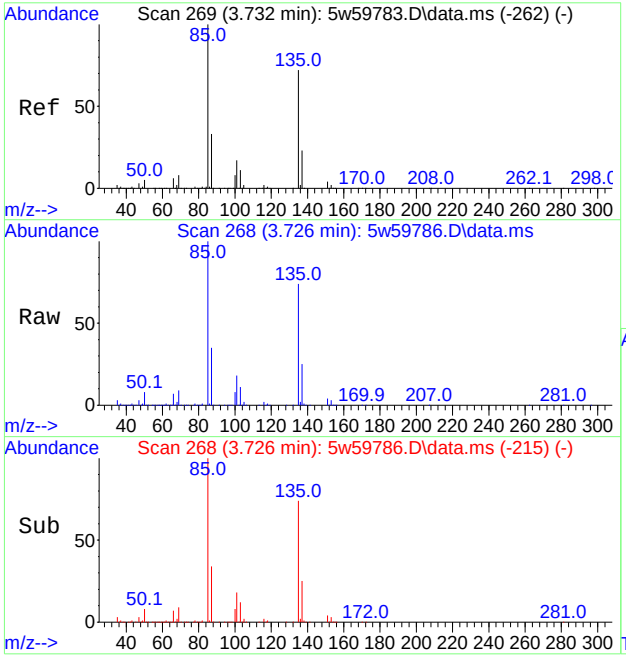


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 27.21 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 4644392

Ion	Ratio	Lower	Upper
65	100		
85	17.0	11.5	21.3
45	20.3	14.0	26.0

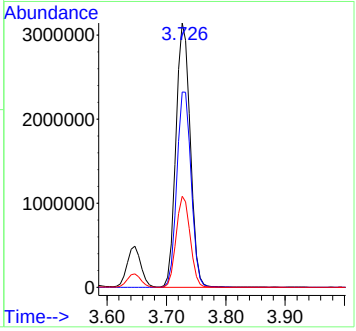


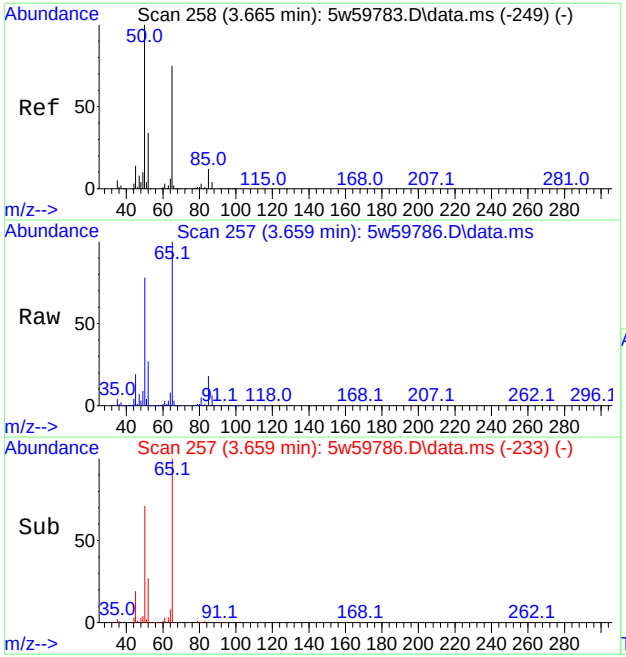


#9
FREON 114
Concen: 28.55 PPBV
RT: 3.726 min Scan# 268
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 5332552

Ion	Ratio	Lower	Upper
85	100		
135	74.3	40.5	100.5
87	33.9	3.0	63.0

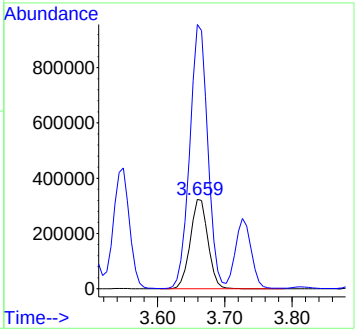


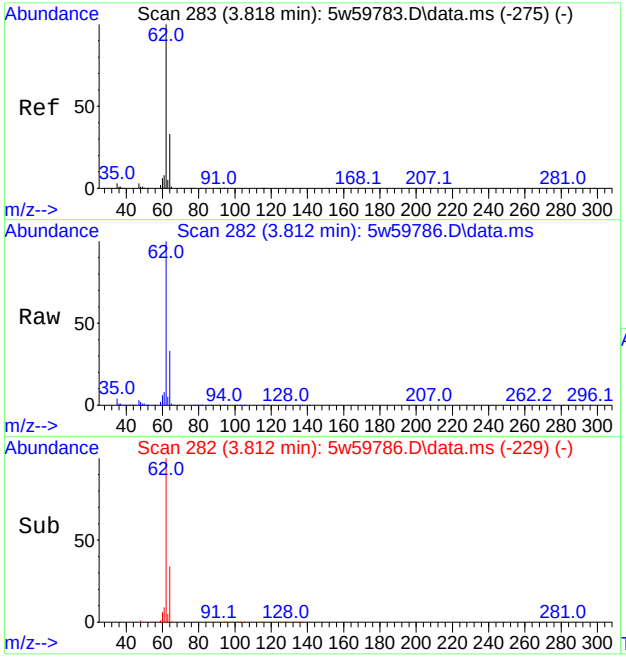


#10
CHLOROMETHANE
Concen: 28.33 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 593159

Ion	Ratio	Lower	Upper
52	100		
50	295.1	267.9	327.9

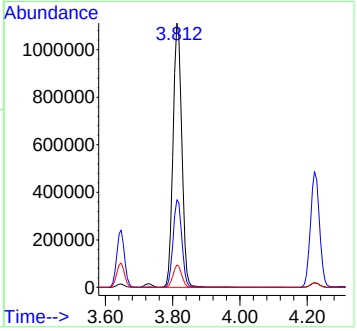


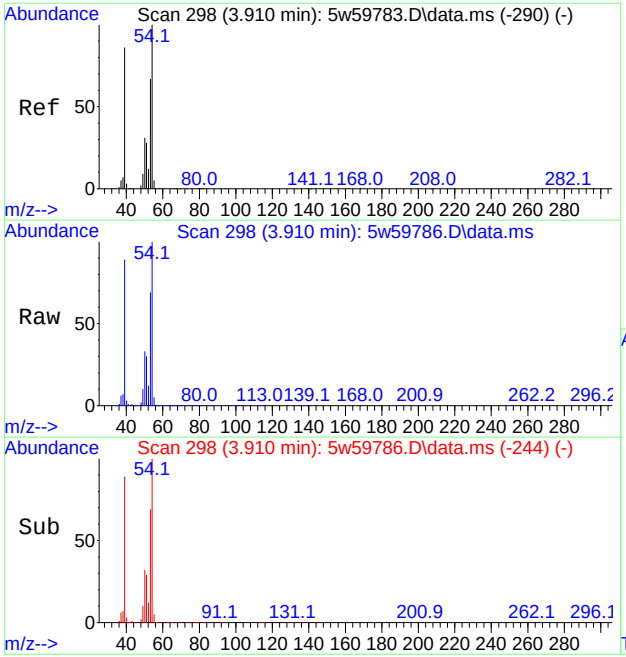


#11
VINYL CHLORIDE
Concen: 28.44 PPBV
RT: 3.812 min Scan# 282
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 2006744

Ion	Ratio	Lower	Upper
62	100		
64	33.3	3.6	63.6
61	8.4	0.0	38.2

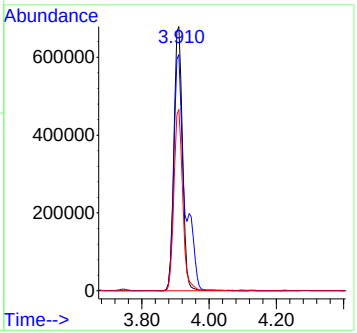


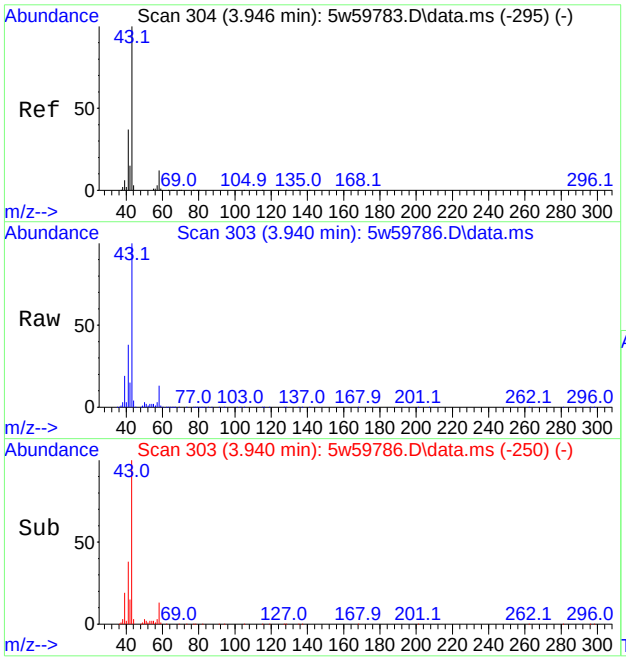


#12
1,3-BUTADIENE
Concen: 27.81 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 54 Resp: 1201486

Ion	Ratio	Lower	Upper
54	100		
39	114.6	82.0	142.0
53	70.5	40.2	100.2

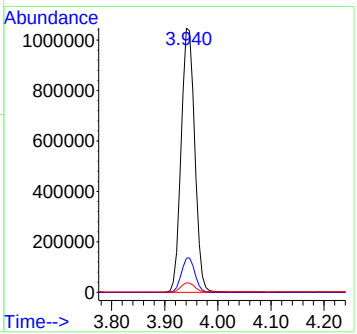


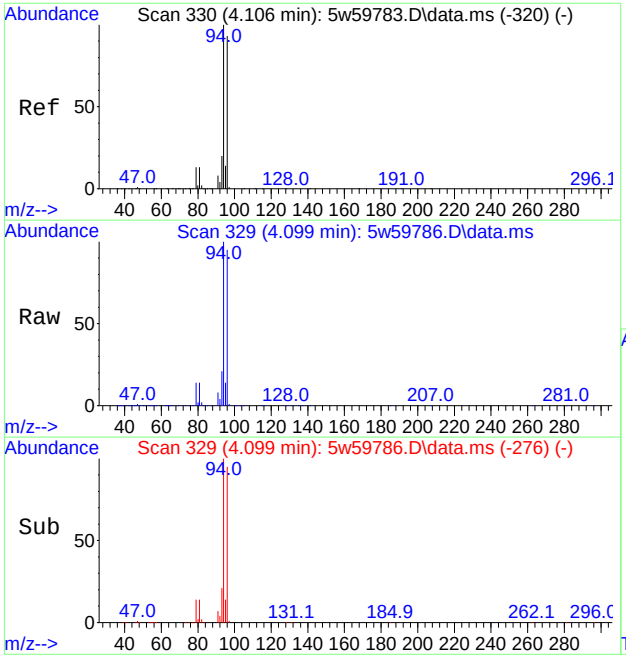


#13
n-BUTANE
Concen: 24.94 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 1865429

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.8	0.0	34.9

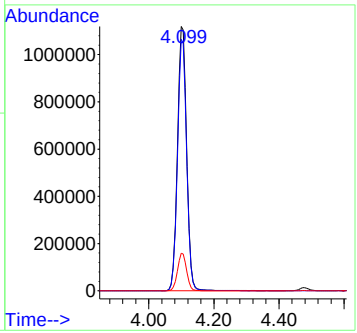


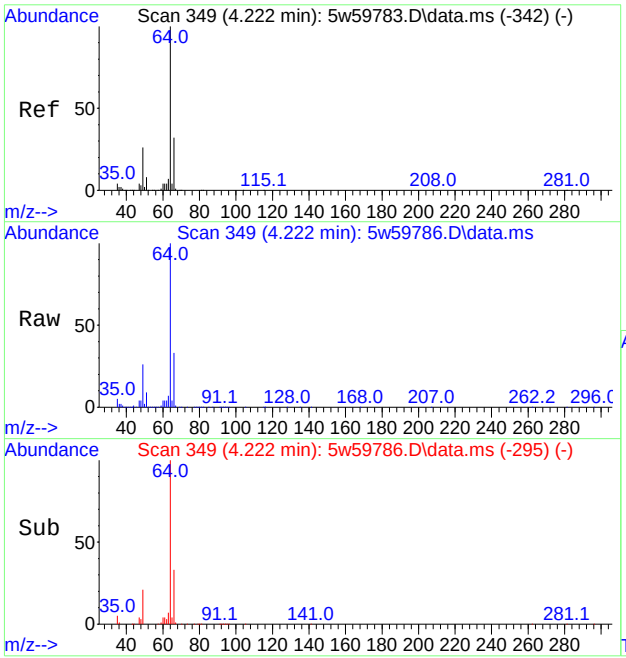


#14
BROMOMETHANE
Concen: 30.01 PPBV
RT: 4.099 min Scan# 329
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 94 Resp: 2201552

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

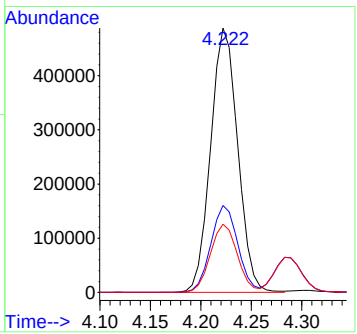


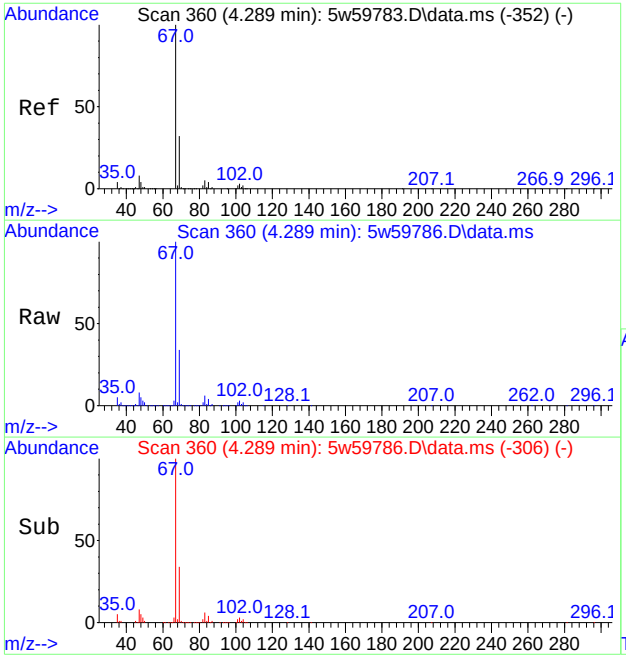


#15
CHLOROETHANE
Concen: 29.04 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 64 Resp: 910647

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

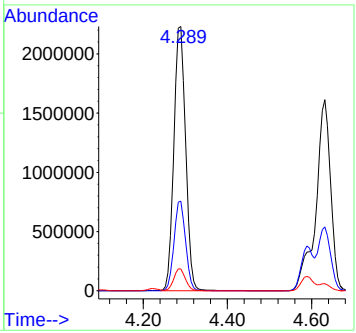


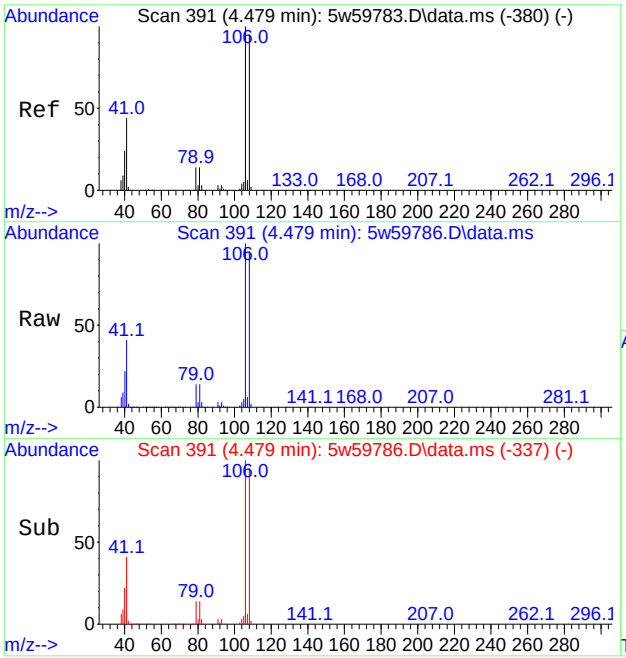


#16
DICHLOROFLUOROMETHANE
Concen: 28.26 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 4344933

Ion	Ratio	Lower	Upper
67	100		
69	33.4	22.7	42.3
47	8.3	5.6	10.4

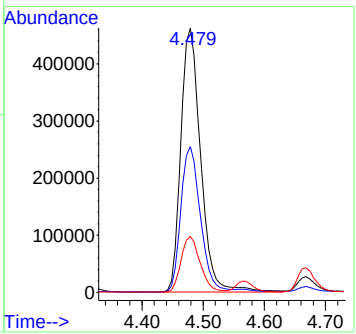


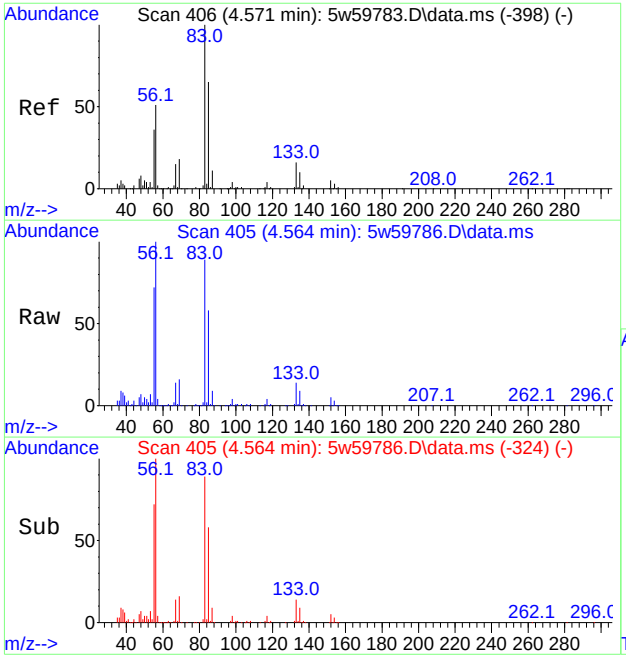


#17
ACETONITRILE
Concen: 24.43 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1047676

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

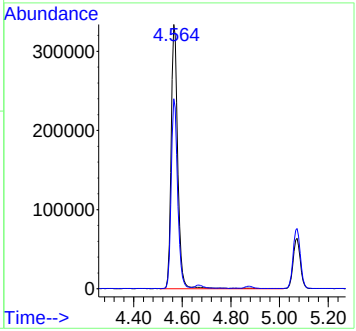


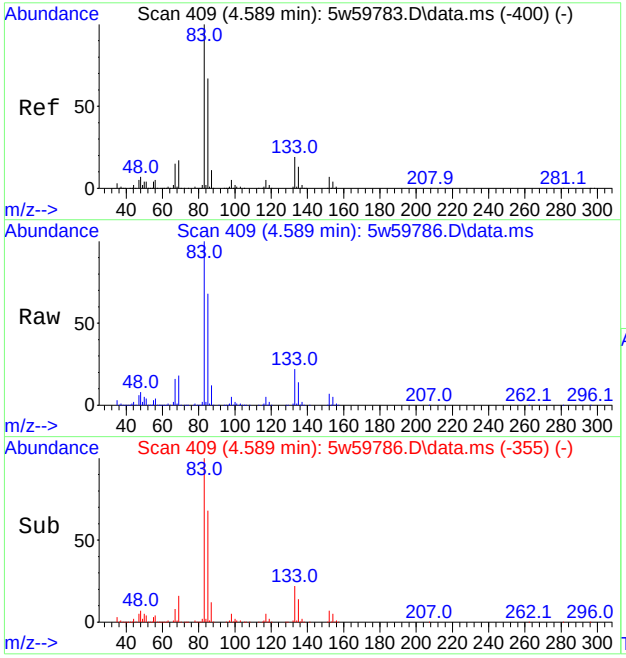


#18
ACROLEIN
Concen: 24.71 PPBV
RT: 4.564 min Scan# 405
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 56 Resp: 630972

Ion	Ratio	Lower	Upper
56	100		
55	70.2	46.6	86.6

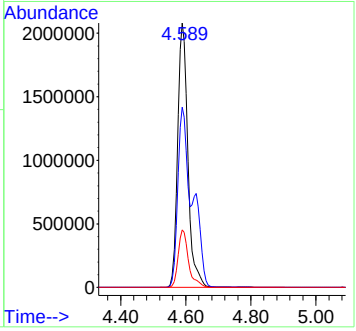


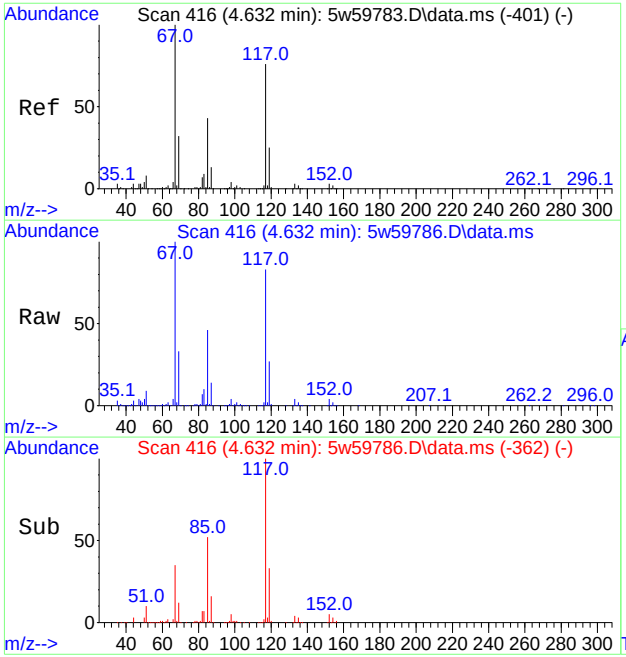


#19
FREON 123
Concen: 27.57 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 4570353

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	22.3	0.0	50.7

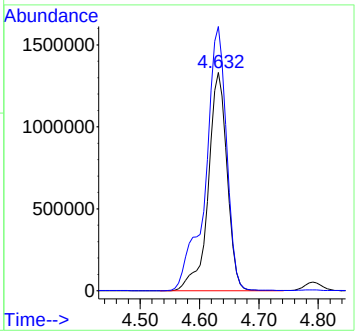


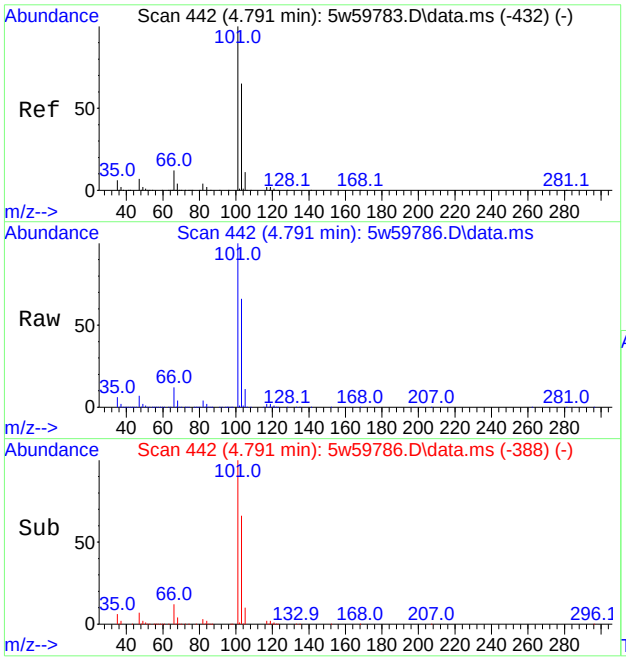


#20
FREON 123A
Concen: 29.40 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 2921341

Ion	Ratio	Lower	Upper
117	100		
67	135.7	114.6	174.6

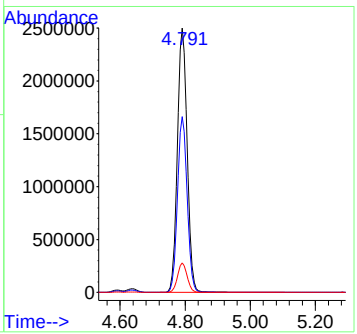


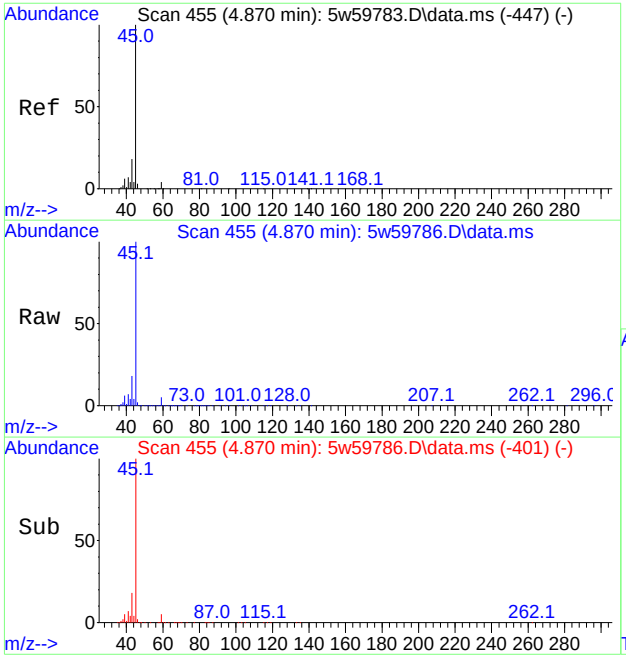


#21
TRICHLOROFLUOROMETHANE
Concen: 26.51 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:101 Resp: 5263086

Ion	Ratio	Lower	Upper
101	100		
103	65.9	35.0	95.0
105	11.0	0.0	40.7

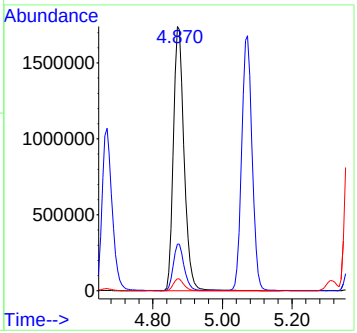


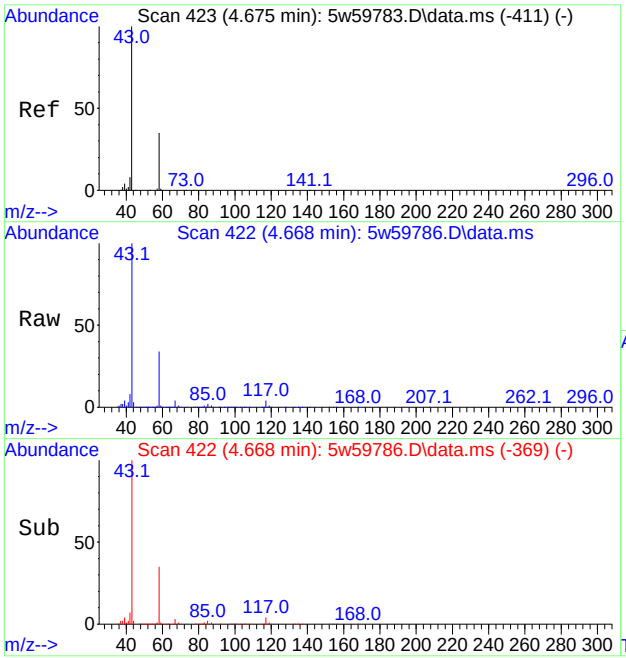


#22
ISOPROPYL ALCOHOL
Concen: 25.25 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 3712437

Ion	Ratio	Lower	Upper
45	100		
43	17.7	0.0	47.8
59	4.6	0.0	34.1

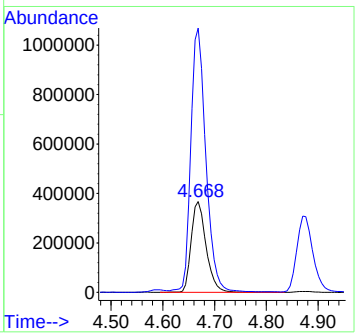


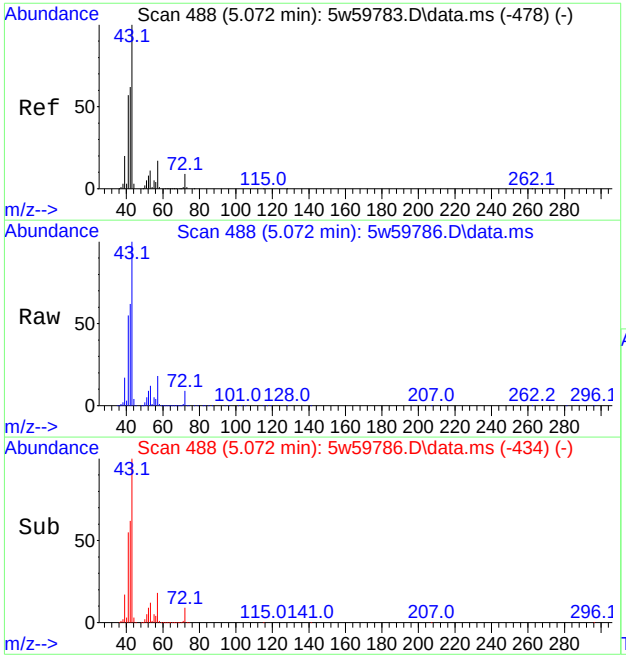


#23
ACETONE
Concen: 25.68 PPBV
RT: 4.668 min Scan# 422
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 738868

Ion	Ratio	Lower	Upper
58	100		
43	289.9	252.3	312.3

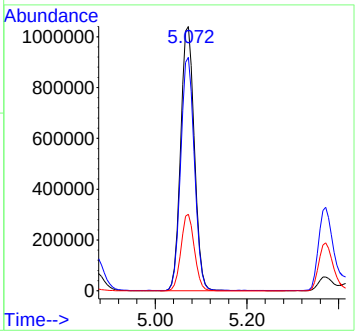


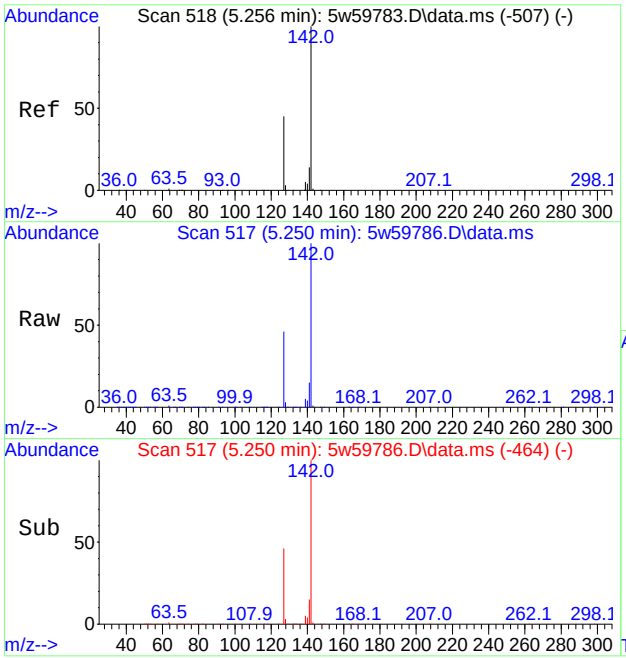


#24
PENTANE
Concen: 29.26 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 42 Resp: 2159289

Ion	Ratio	Lower	Upper
42	100		
41	88.6	62.3	122.3
57	28.5	0.0	57.7

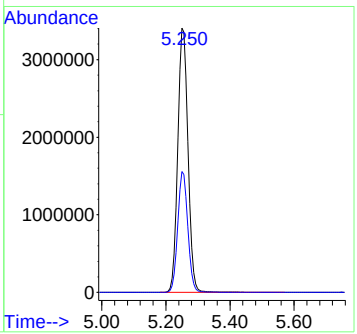


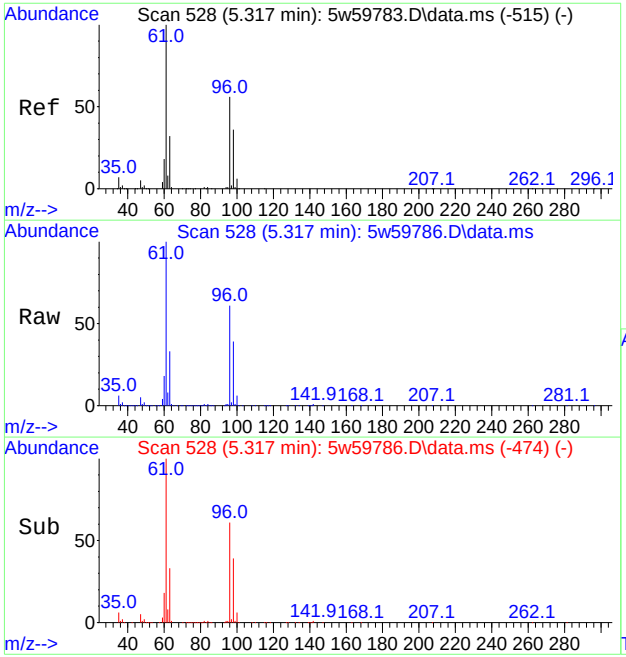


#25
IODOMETHANE
Concen: 35.46 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:142 Resp: 7543155

Ion	Ratio	Lower	Upper
142	100		
127	45.2	16.0	76.0

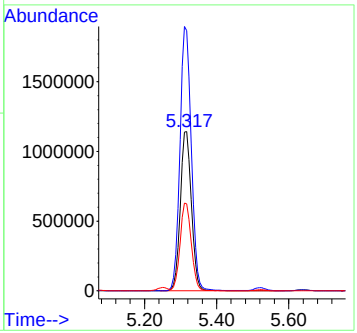


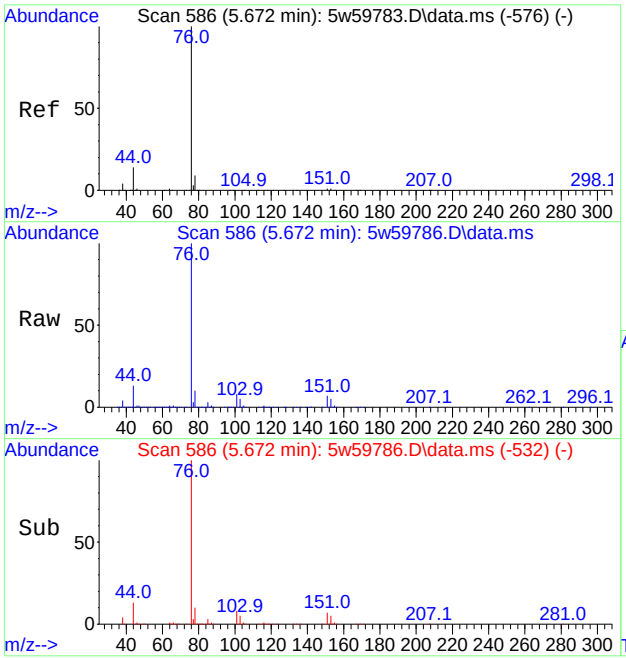


#26
1,1-DICHLOROETHYLENE
Concen: 33.22 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2443503

Ion	Ratio	Lower	Upper
96	100		
61	169.6	148.5	208.5
63	55.5	27.4	87.4

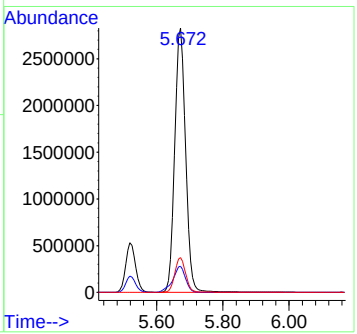


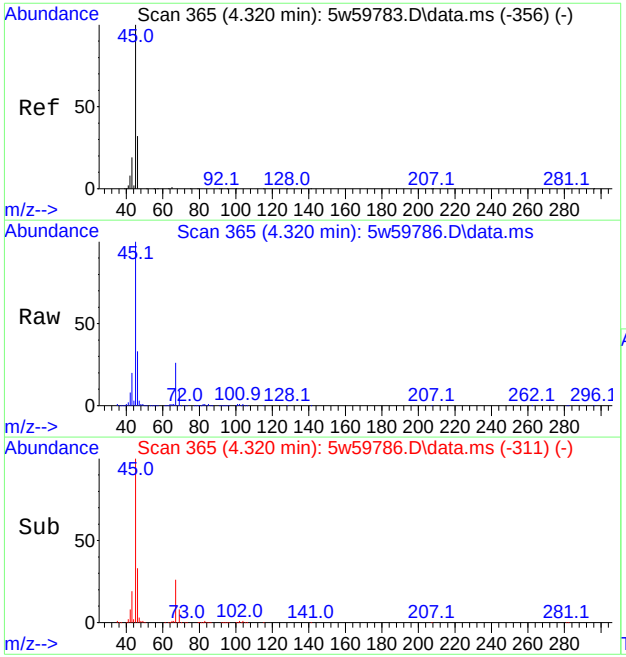


#27
CARBON DISULFIDE
Concen: 33.10 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 6480951

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.1	0.0	44.6

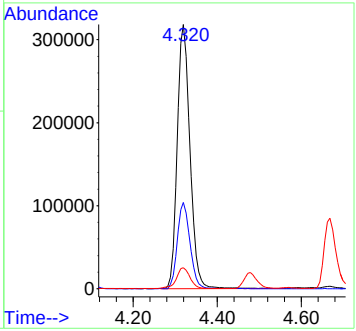


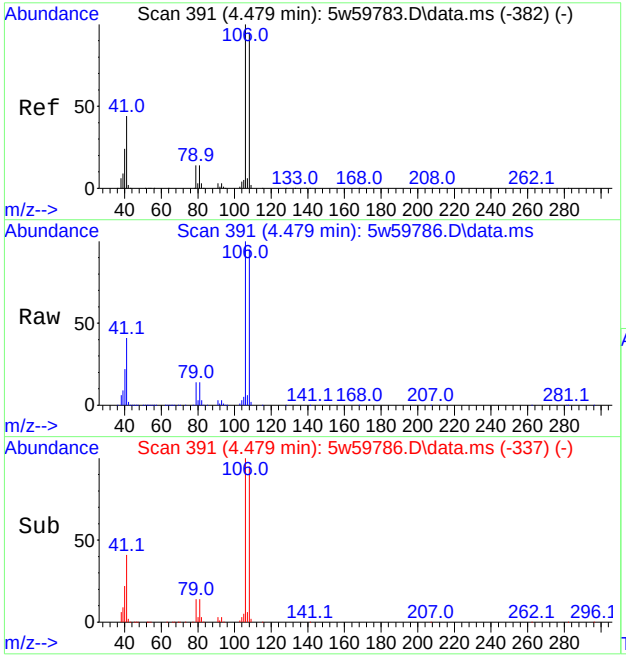


#28
ETHANOL
Concen: 25.13 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 668282

Ion	Ratio	Lower	Upper
45	100		
46	32.6	2.0	62.0
42	8.5	0.0	38.5

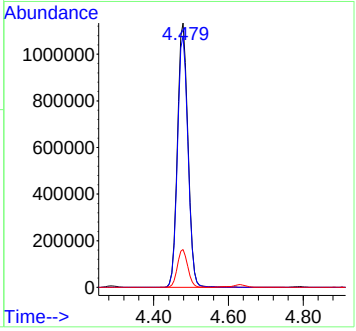


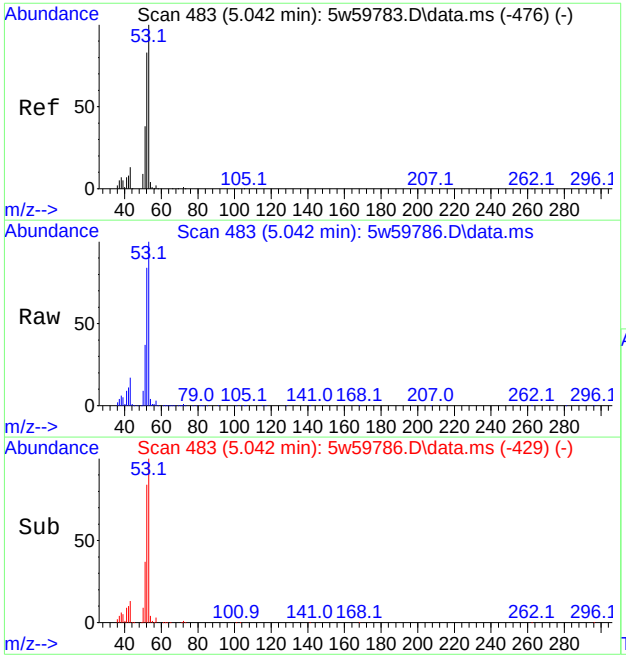


#29
BROMOETHENE
Concen: 32.02 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 2216899

Ion	Ratio	Lower	Upper
106	100		
108	95.4	65.6	125.6
81	14.3	0.0	43.9

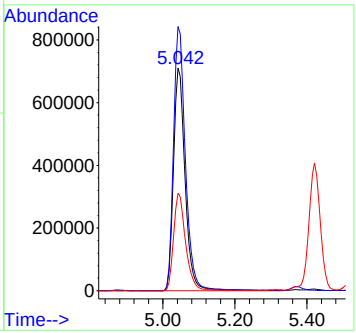


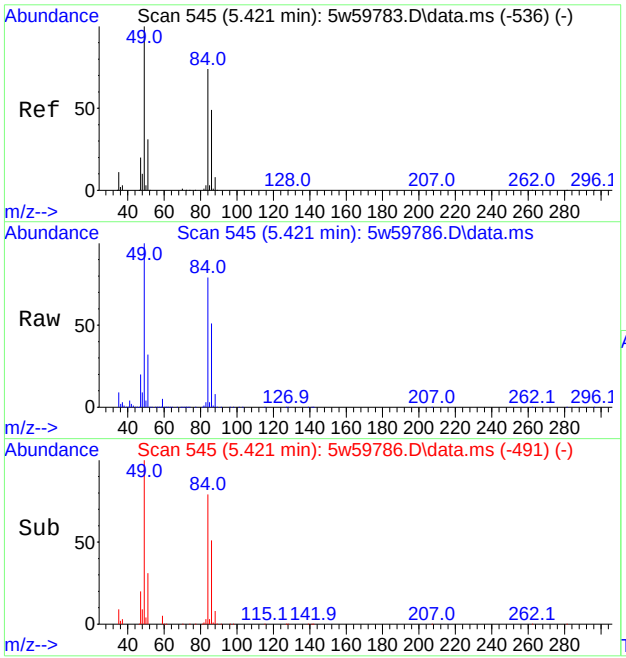


#30
ACRYLONITRILE
Concen: 34.08 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 1601584

Ion	Ratio	Lower	Upper
52	100		
53	121.7	85.8	159.4
51	45.3	32.3	60.1

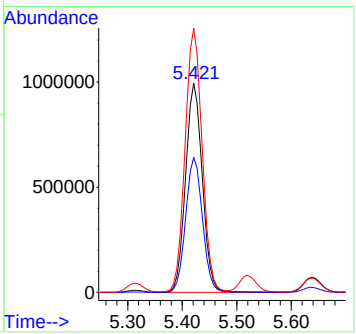


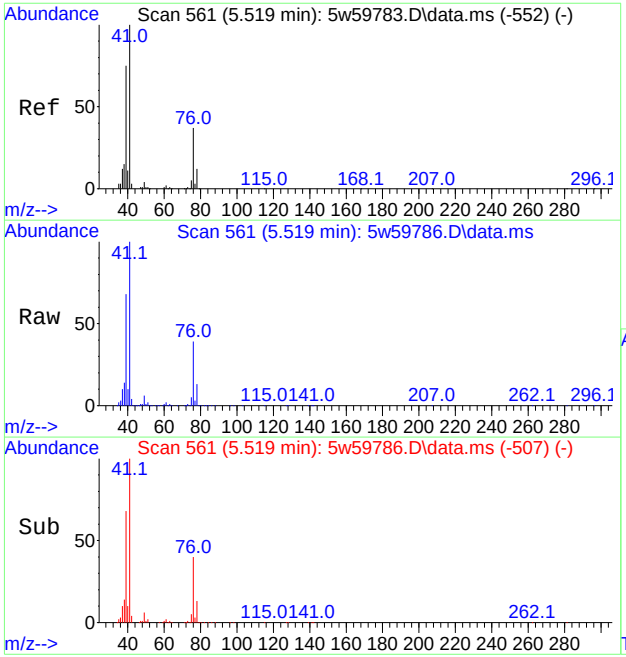


#31
METHYLENE CHLORIDE
Concen: 32.13 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2117266

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	128.7	105.3	165.3

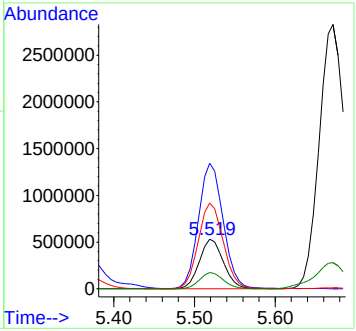


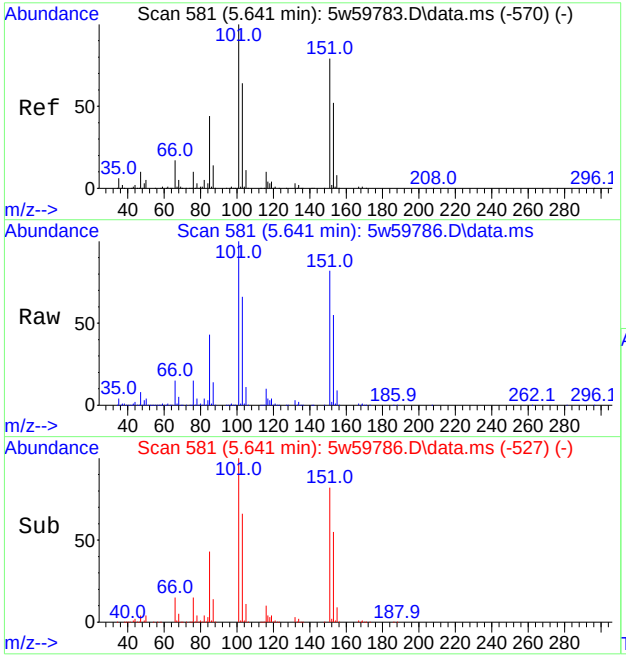


#32
3-CHLOROPROPENE
Concen: 35.87 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 1102190

Ion	Ratio	Lower	Upper
76	100		
41	259.8	240.8	300.8
39	178.8	173.6	233.6
78	32.8	2.8	62.8

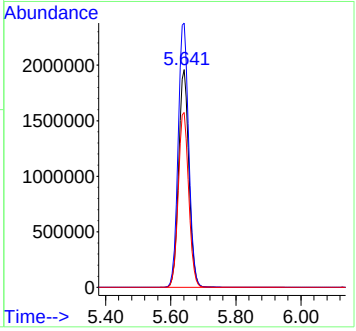


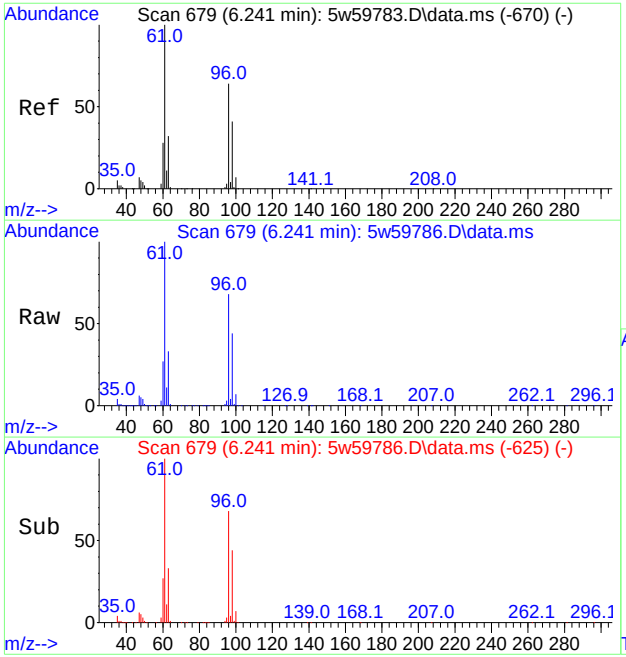


#33
FREON 113
Concen: 33.71 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:151 Resp: 4335347

Ion	Ratio	Lower	Upper
151	100		
101	124.7	97.5	157.5
103	81.6	52.5	112.5

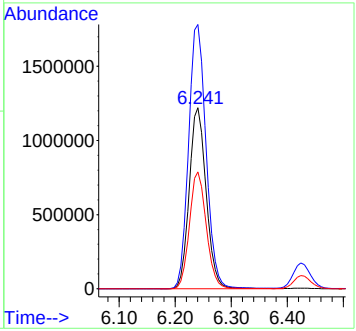


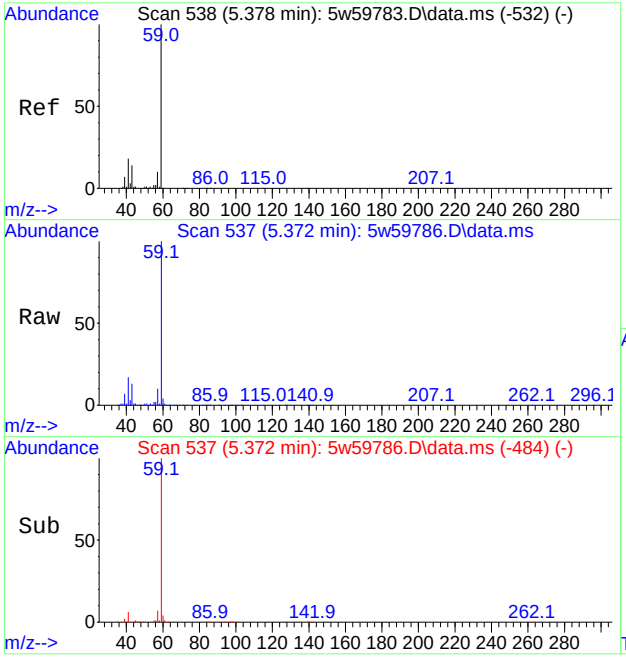


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 33.70 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2566855

Ion	Ratio	Lower	Upper
96	100		
61	150.4	126.4	186.4
98	64.4	34.1	94.1

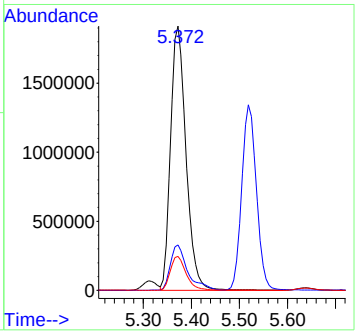


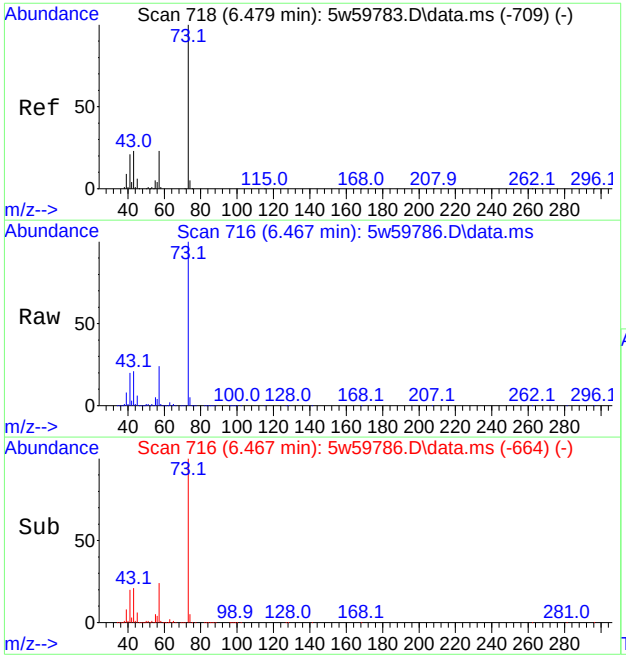


#35
TERTIARY BUTYL ALCOHOL
Concen: 27.79 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 4270952

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.2	0.0	44.1

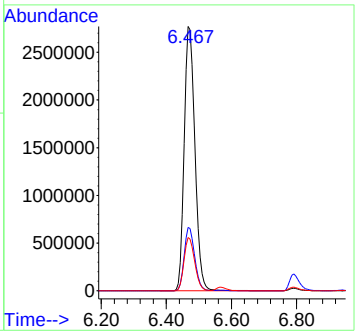


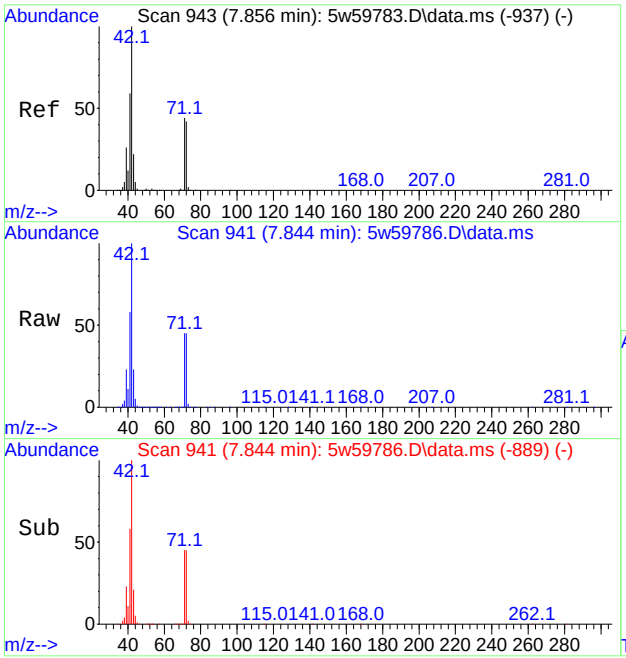


#36
METHYL TERTIARY BUTYL ETHER
Concen: 33.80 PPBV
RT: 6.467 min Scan# 716
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 73 Resp: 6337595

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	20.0	0.0	50.6

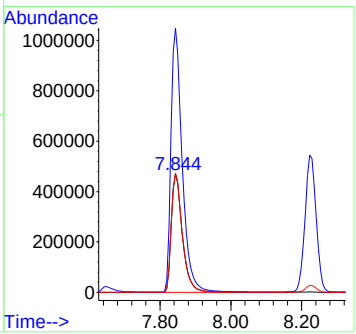


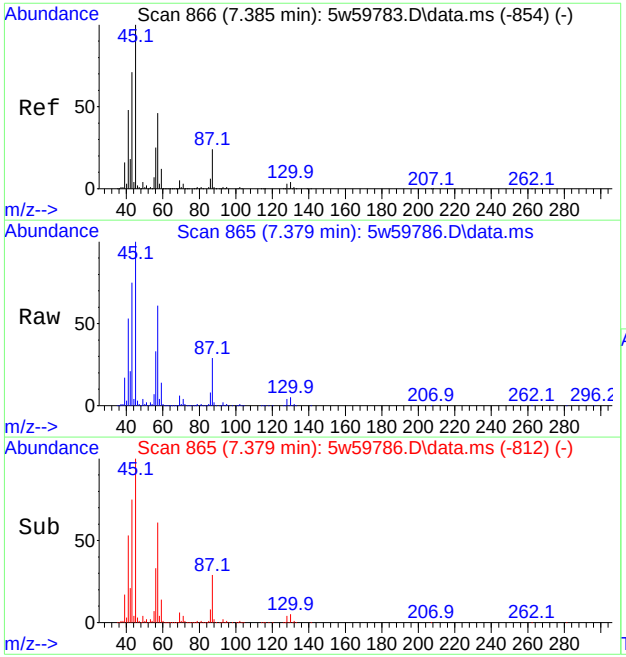


#37
TETRAHYDROFURAN
Concen: 37.42 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1023793

Ion	Ratio	Lower	Upper
72	100		
42	225.7	202.4	262.4
71	100.8	71.1	131.1

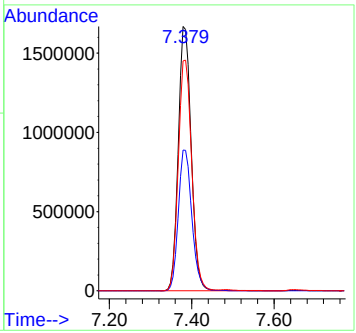


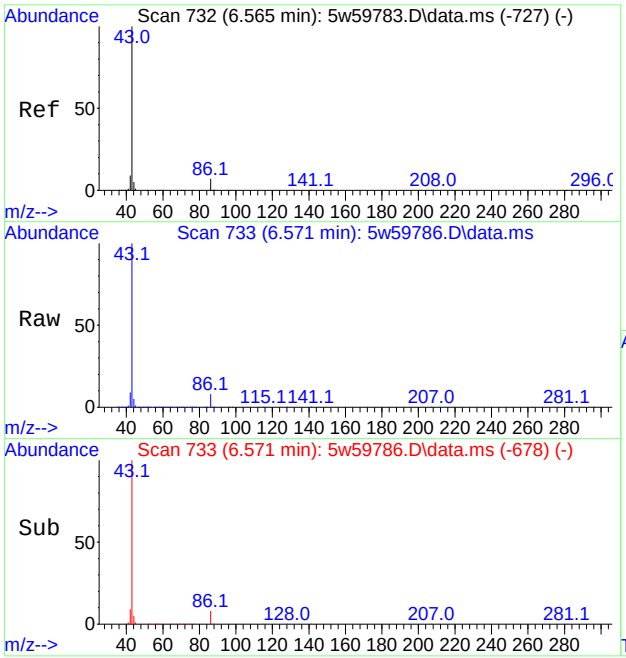


#38
HEXANE
Concen: 34.89 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 3623516

Ion	Ratio	Lower	Upper
57	100		
56	56.2	25.9	85.9
41	91.2	74.7	134.7

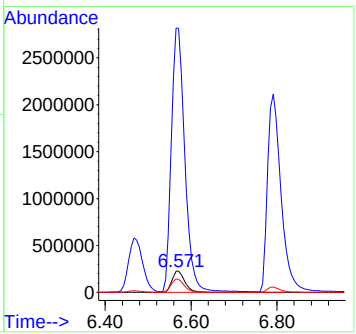


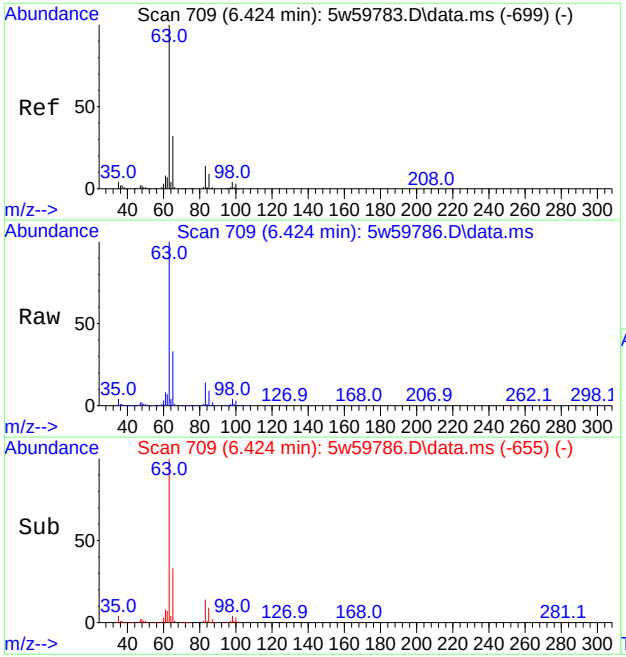


#39
VINYL ACETATE
Concen: 39.37 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 86 Resp: 477066

Ion	Ratio	Lower	Upper
86	100		
43	1285.9	1379.7	1439.7#
44	63.4	36.9	96.9

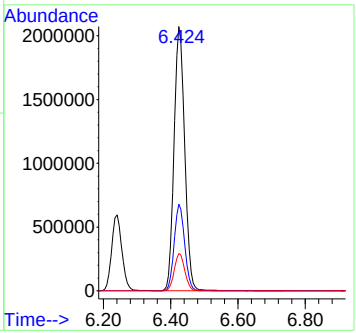


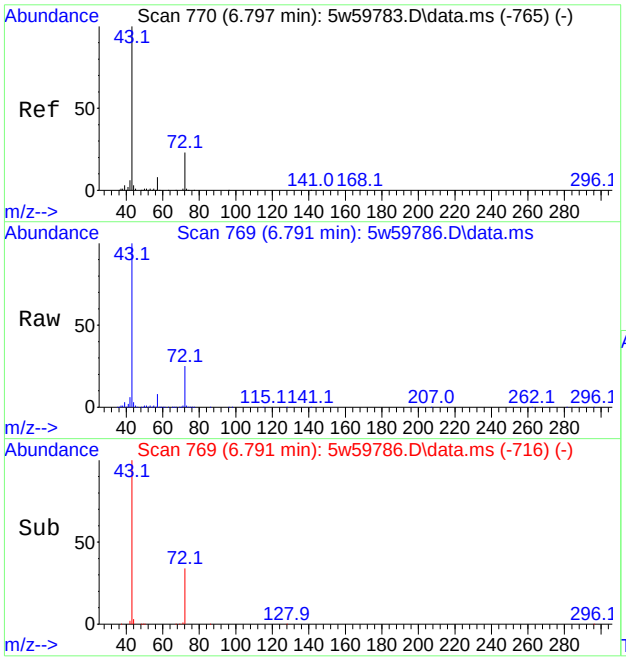


#40
1,1-DICHLOROETHANE
Concen: 33.30 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 4545260

Ion	Ratio	Lower	Upper
63	100		
65	32.4	1.7	61.7
83	13.9	0.0	43.5

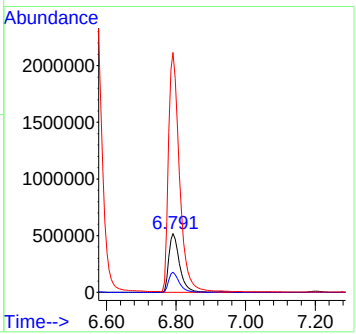


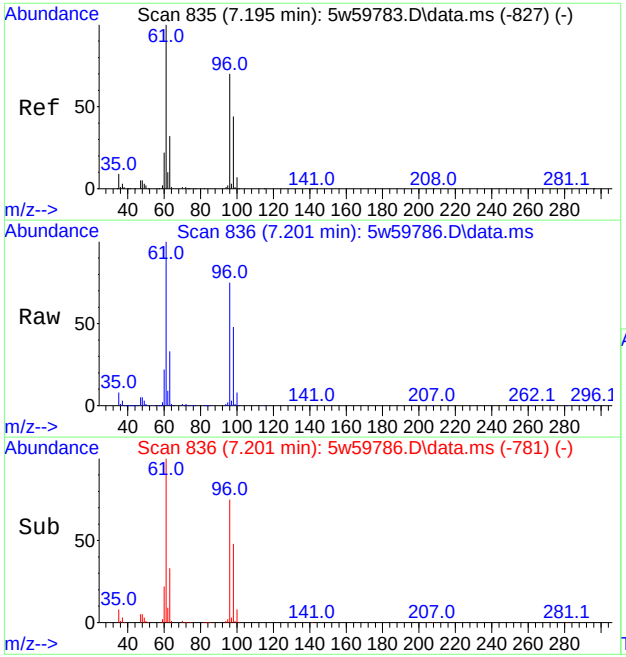


#41
METHYL ETHYL KETONE
Concen: 39.33 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1116320

Ion	Ratio	Lower	Upper
72	100		
57	34.3	4.8	64.8
43	407.4	415.9	475.9#

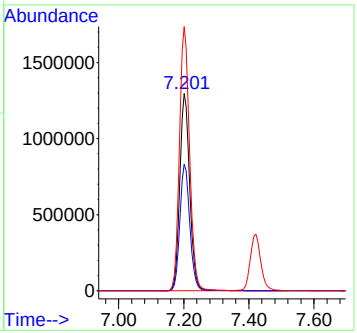


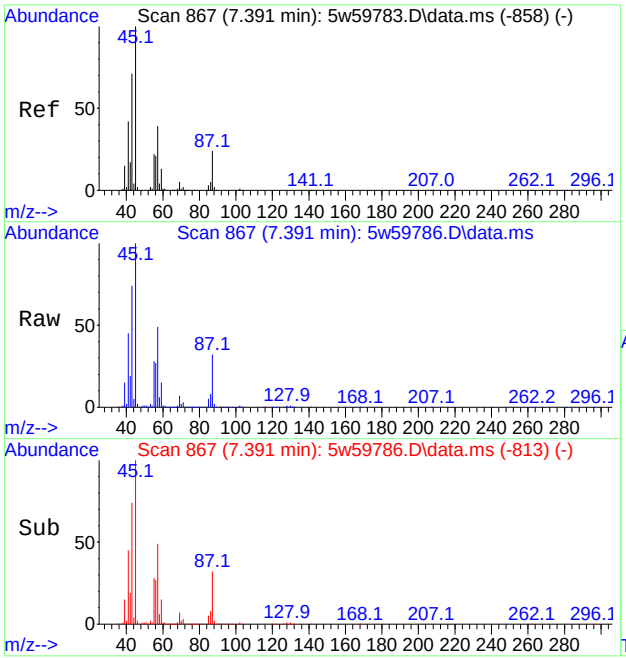


#42
cis-1,2-DICHLOROETHYLENE
Concen: 35.23 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2772689

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	136.2	111.5	171.5

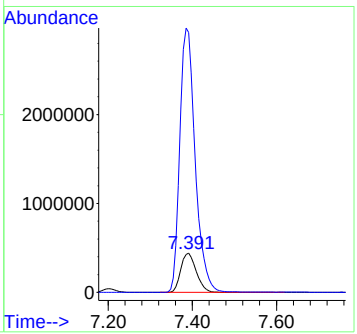


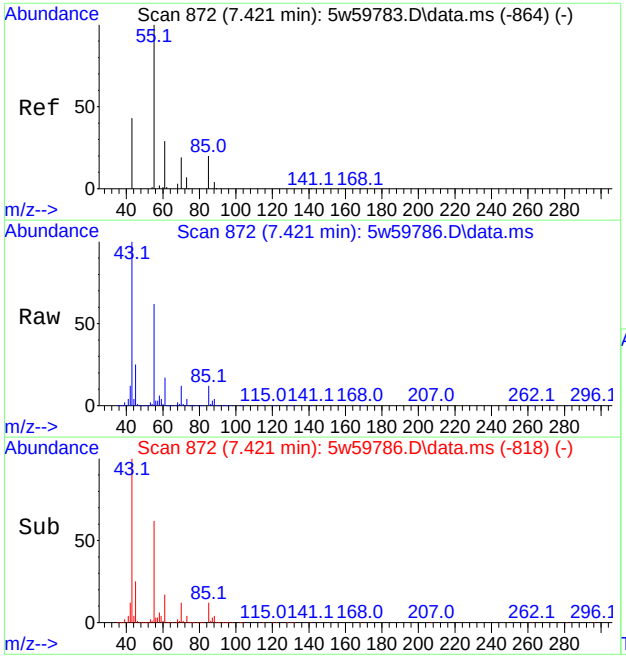


#43
DIISOPROPYL ETHER
Concen: 38.69 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 1134199

Ion	Ratio	Lower	Upper
59	100		
45	668.8	720.9	780.9#

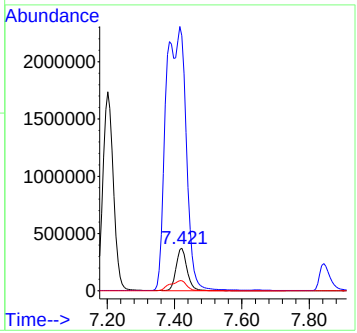


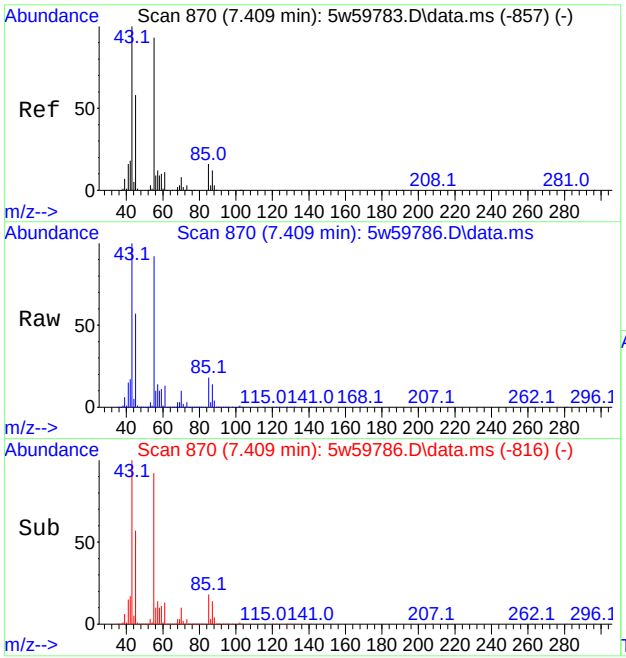


#44
ETHYL ACETATE
Concen: 34.91 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 61 Resp: 845012

Ion	Ratio	Lower	Upper
61	100		
43	618.0	560.5	620.5
88	37.0	4.5	64.5

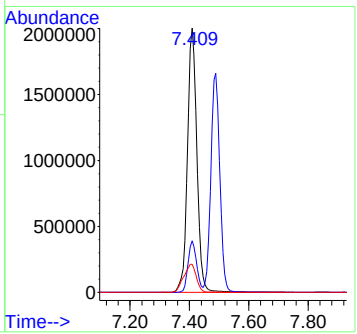


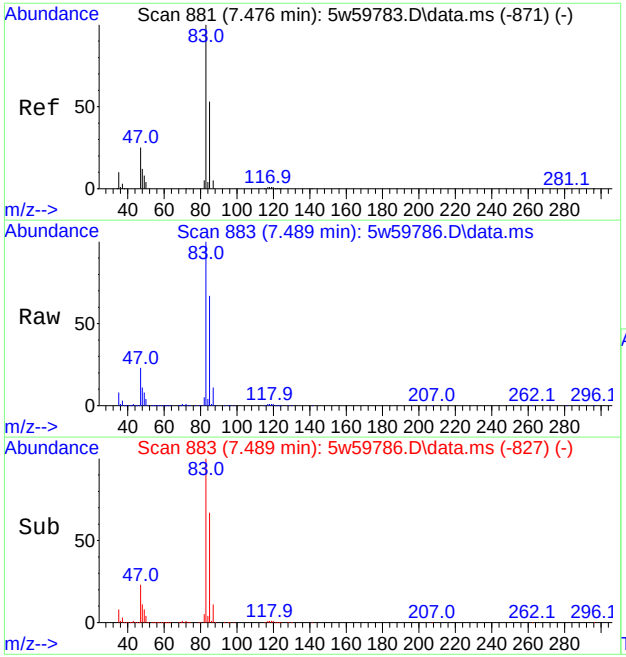


#45
METHYL ACRYLATE
Concen: 33.33 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 4442118

Ion	Ratio	Lower	Upper
55	100		
85	17.9	10.9	20.3
58	14.3	9.4	17.6

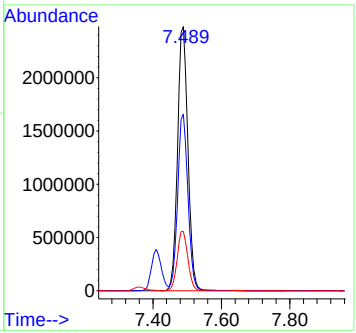


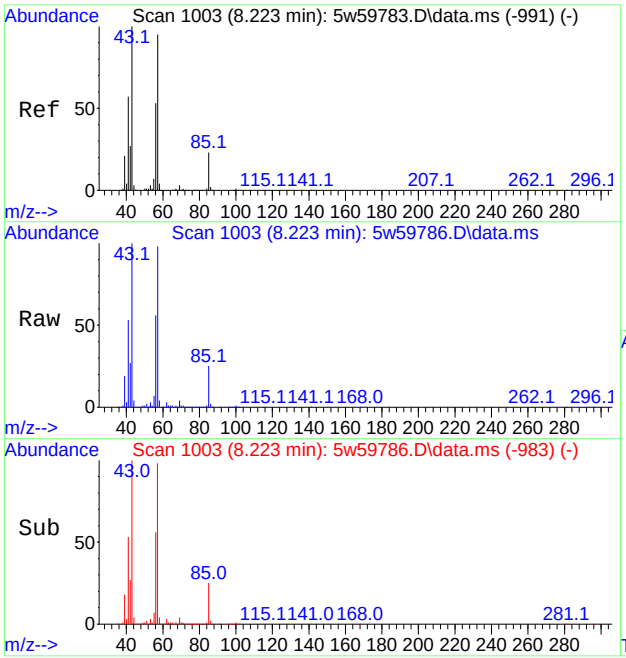


#46
CHLOROFORM
Concen: 33.15 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 5265891

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.6	95.6
47	23.1	0.0	55.2

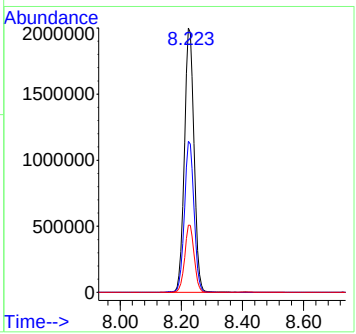


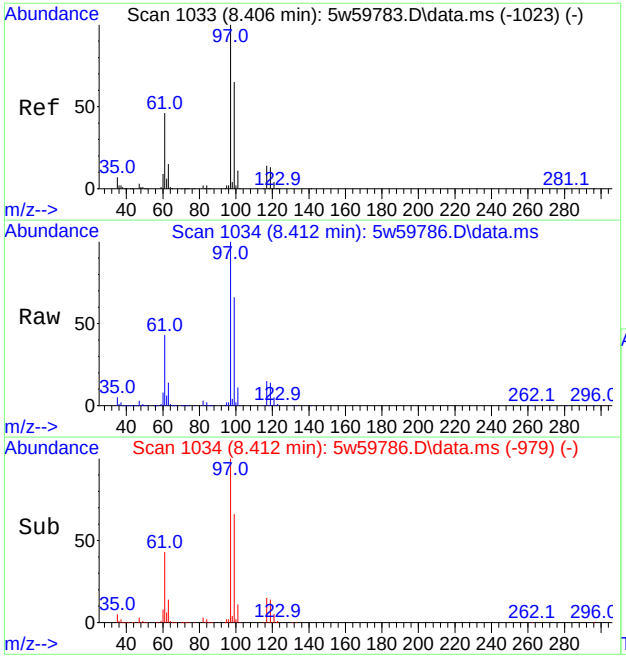


#47
2,4-DIMETHYLPENTANE
Concen: 35.95 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 4372372

Ion	Ratio	Lower	Upper
57	100		
56	57.3	26.5	86.5
85	25.1	0.0	53.8

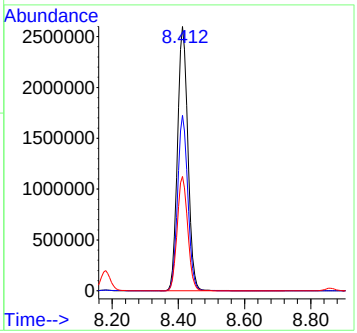


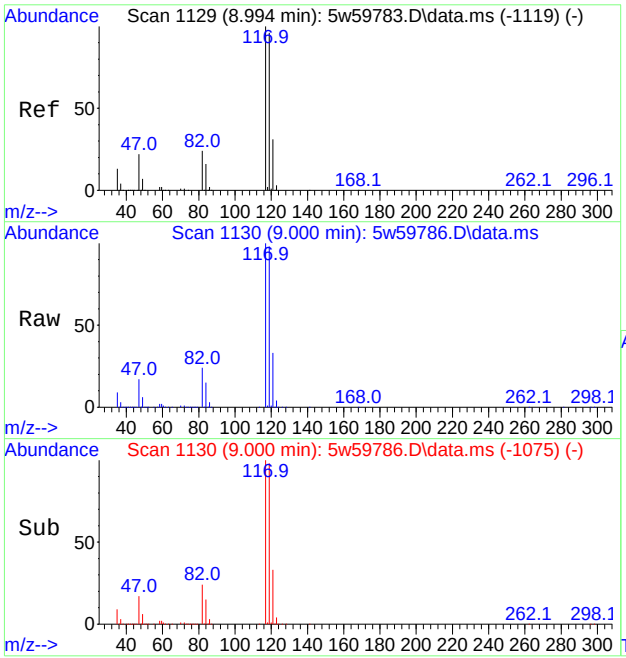


#48
1,1,1-TRICHLOROETHANE
Concen: 33.44 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 97 Resp: 5674011

Ion	Ratio	Lower	Upper
97	100		
99	65.7	34.8	94.8
61	43.9	15.8	75.8

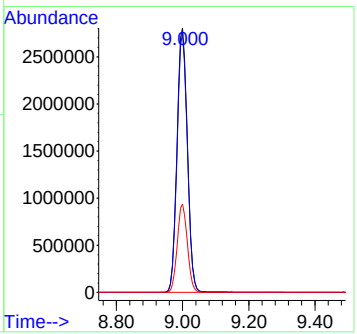


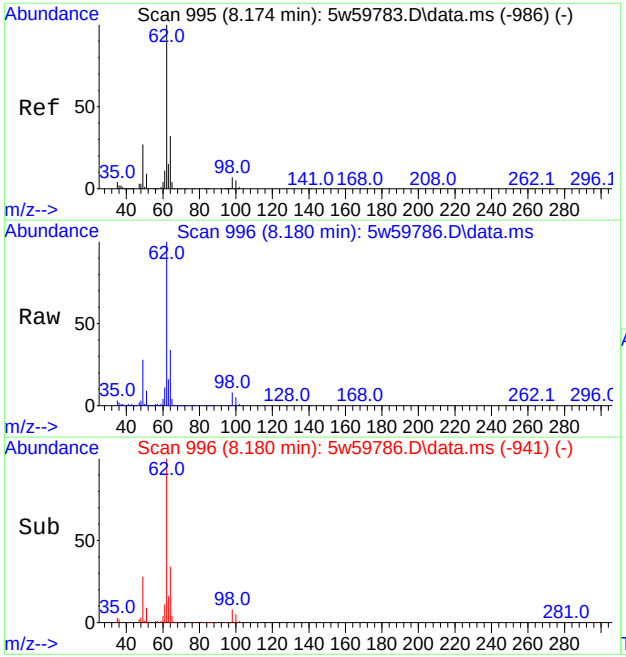


#49
CARBON TETRACHLORIDE
Concen: 33.09 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 6150579

Ion	Ratio	Lower	Upper
117	100		
119	97.1	66.9	126.9
121	32.6	1.3	61.3

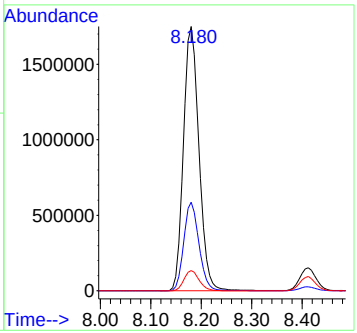


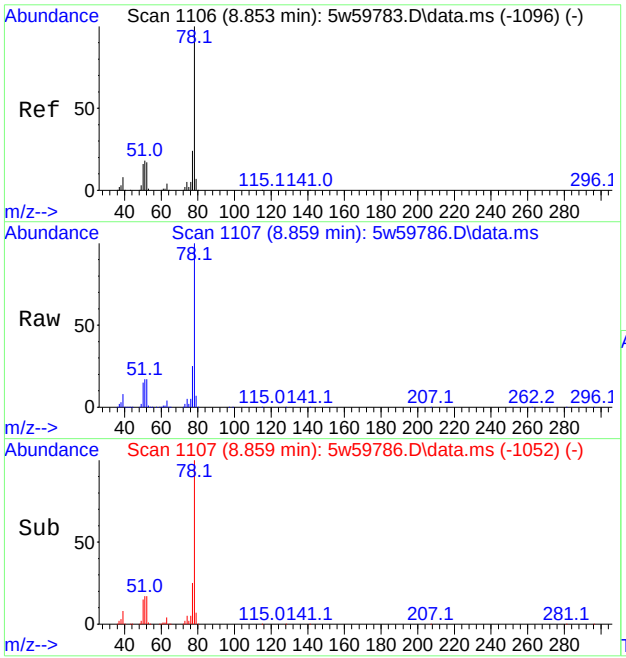


#50
1,2-DICHLOROETHANE
Concen: 33.65 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 3745660

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	7.5	0.0	36.9

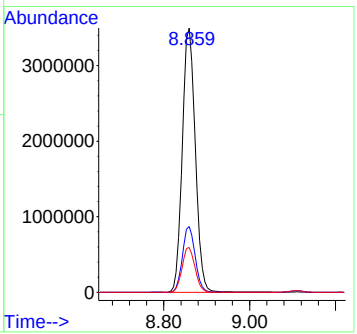


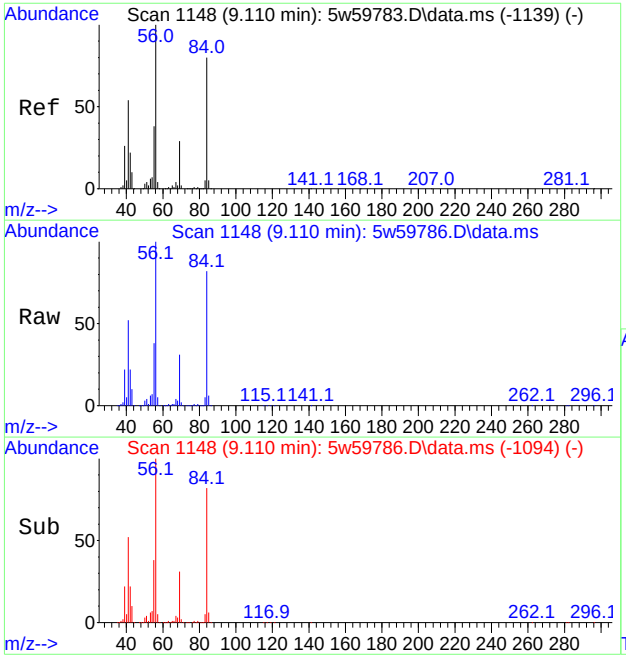


#52
BENZENE
Concen: 40.36 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 78 Resp: 7354311

Ion	Ratio	Lower	Upper
78	100		
77	24.5	0.0	53.8
52	17.0	0.0	46.9

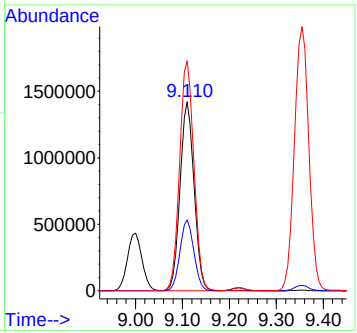


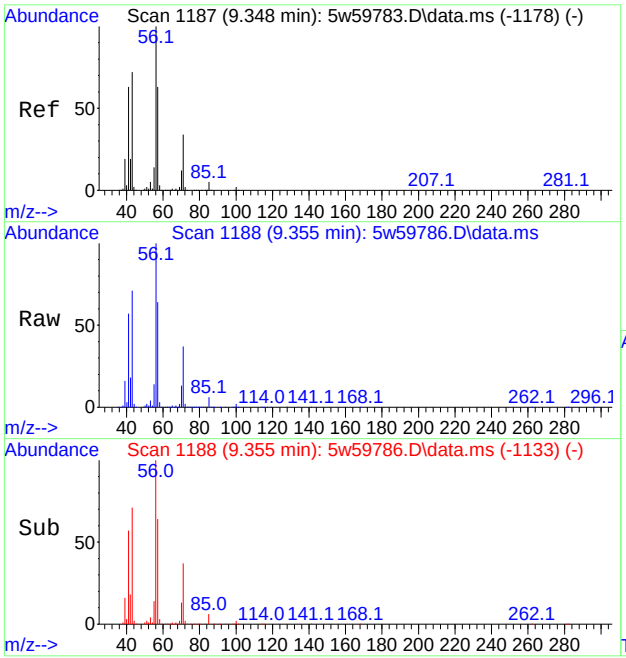


#53
CYCLOHEXANE
Concen: 40.67 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2949070

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	124.0	98.2	158.2

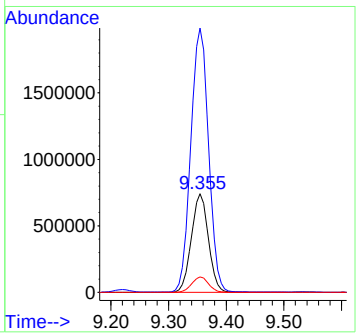


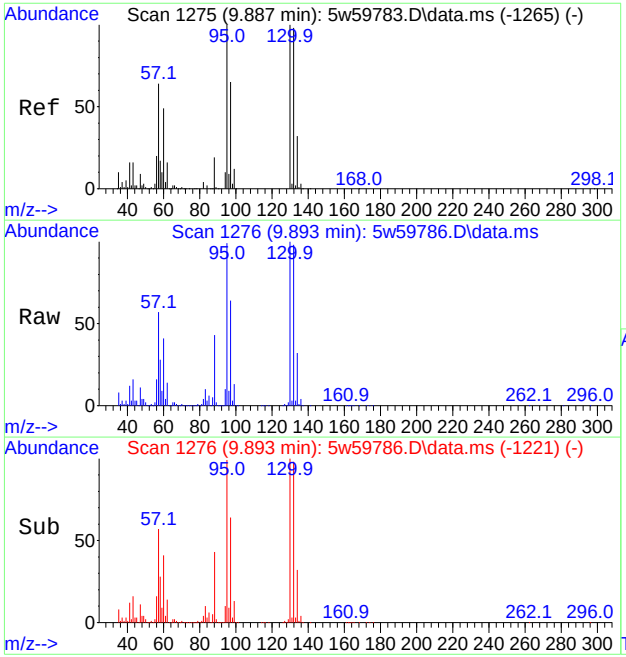


#54
2,3-DIMETHYLPENTANE
Concen: 42.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 71 Resp: 1522391

Ion	Ratio	Lower	Upper
71	100		
56	280.1	264.6	324.6
85	15.6	0.0	45.3

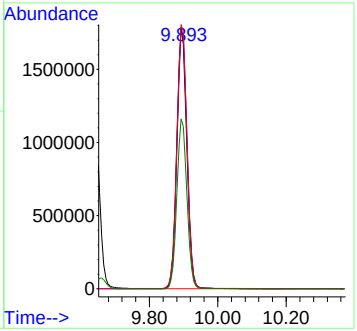


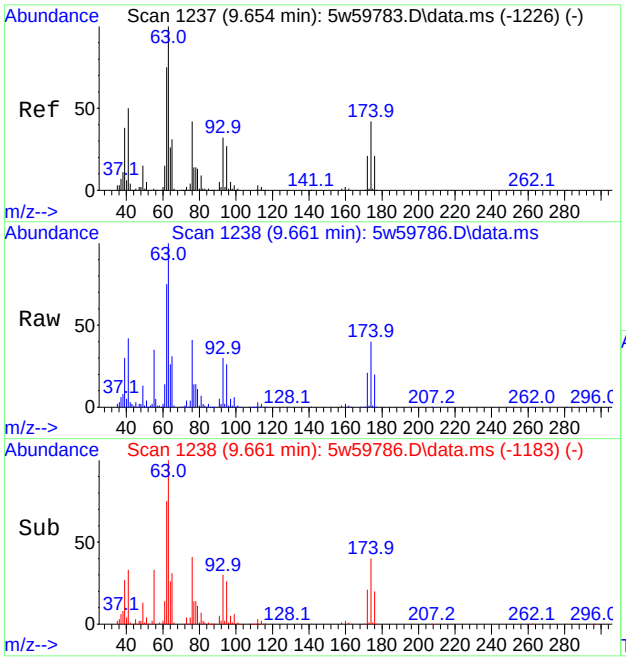


#55
TRICHLOROETHYLENE
Concen: 37.53 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 95 Resp: 3632086

Ion	Ratio	Lower	Upper
95	100		
132	100.6	69.0	129.0
130	103.1	70.6	130.6
97	65.4	34.6	94.6

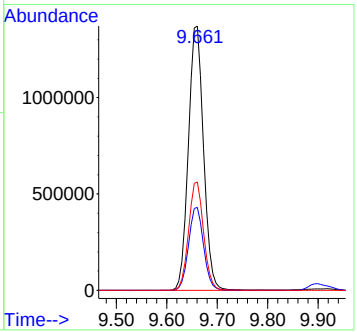


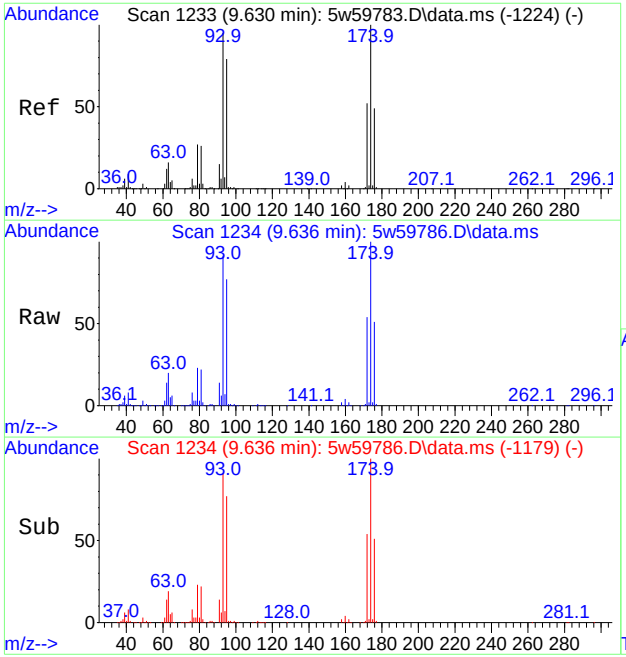


#56
1,2-DICHLOROPROPANE
Concen: 37.03 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 2868397

Ion	Ratio	Lower	Upper
63	100		
65	31.3	0.5	60.5
76	40.8	11.5	71.5

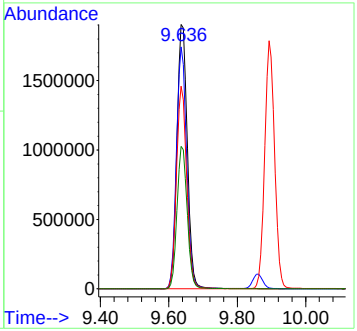


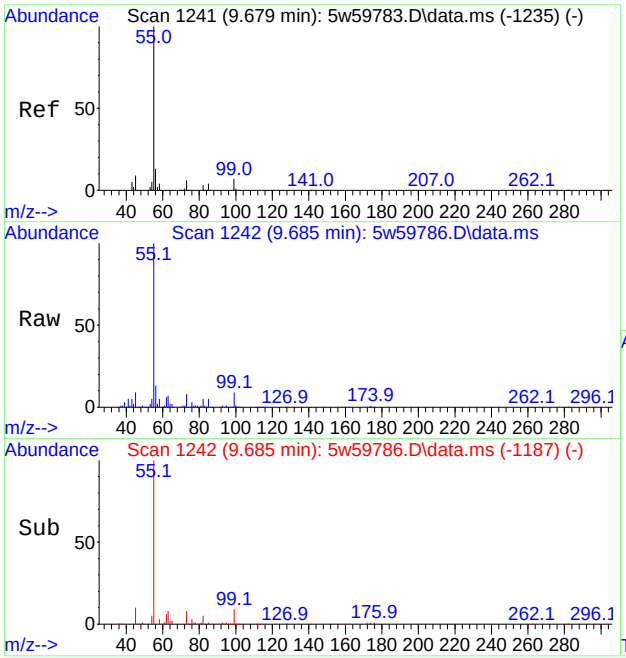


#57
DIBROMOMETHANE
Concen: 38.37 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:174 Resp: 4006214

Ion	Ratio	Lower	Upper
174	100		
93	90.3	65.0	120.6
95	75.8	54.5	101.1
172	53.2	36.3	67.5

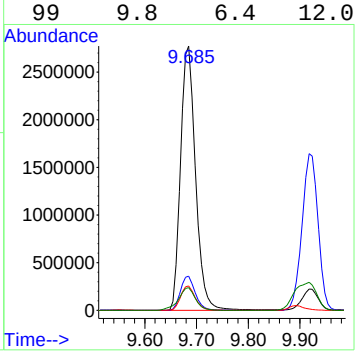


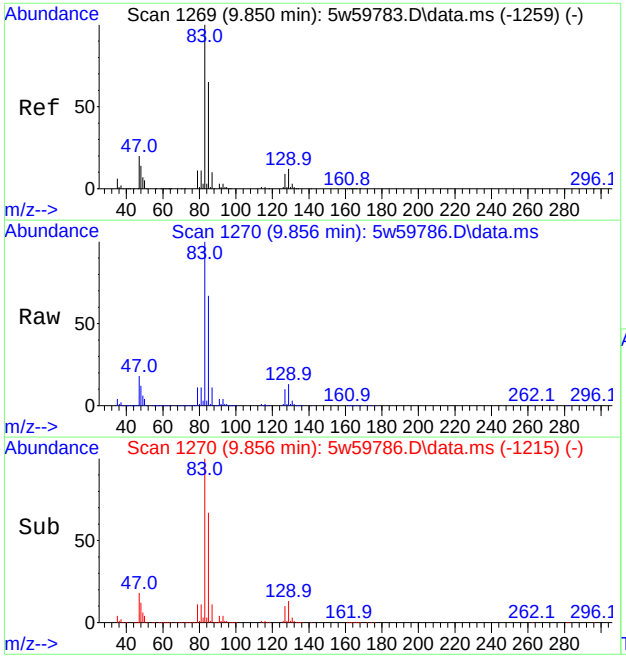


#58
ETHYL ACRYLATE
Concen: 37.54 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 5610538

Ion	Ratio	Lower	Upper
55	100		
56	12.7	8.6	16.0
45	9.0	6.6	12.2
99	9.8	6.4	12.0

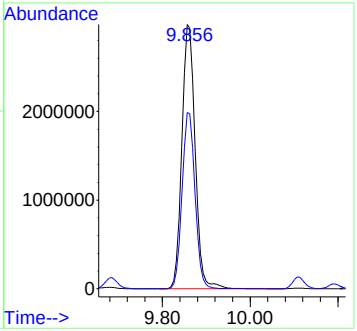


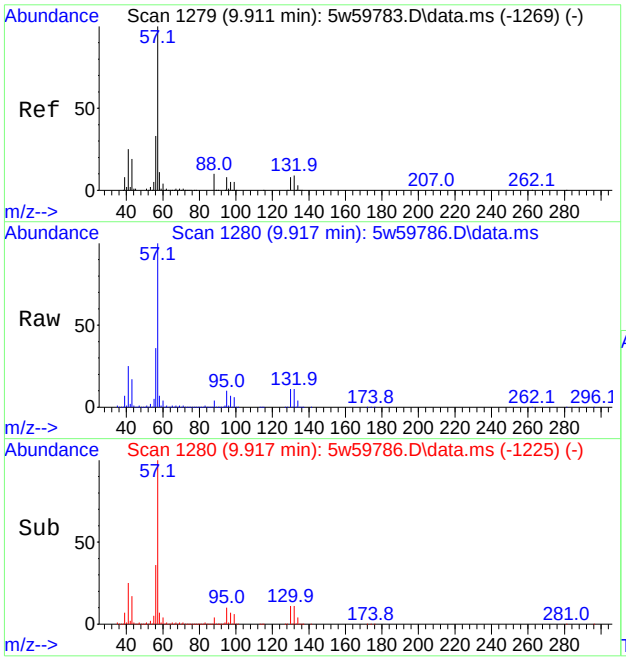


#59
BROMODICHLOROMETHANE
Concen: 37.04 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6264555

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

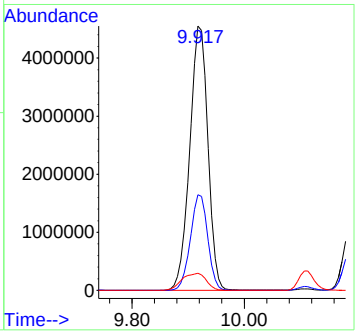


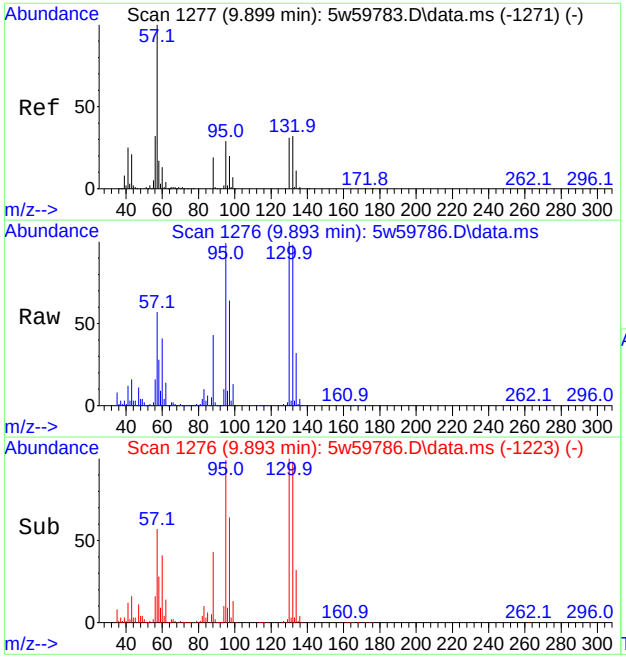


#60
2,2,4-TRIMETHYLPENTANE
Concen: 34.27 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp:10265949

Ion	Ratio	Lower	Upper
57	100		
56	34.3	2.5	62.5
99	8.6	0.0	37.3

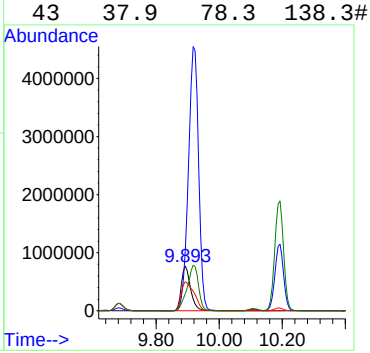


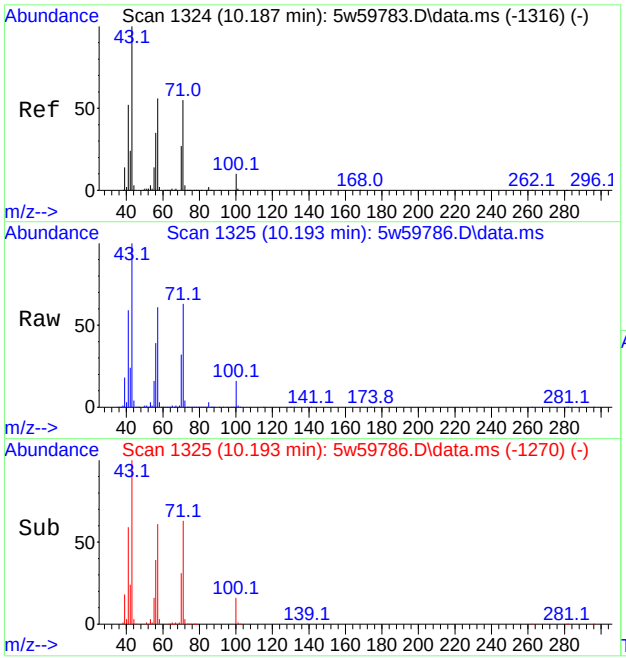


#61
1,4-DIOXANE
Concen: 39.31 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 88 Resp: 1571741

Ion	Ratio	Lower	Upper
88	100		
57	134.3	494.2	554.2#
58	65.0	58.9	118.9
43	37.9	78.3	138.3#

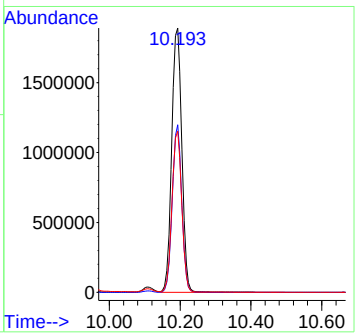


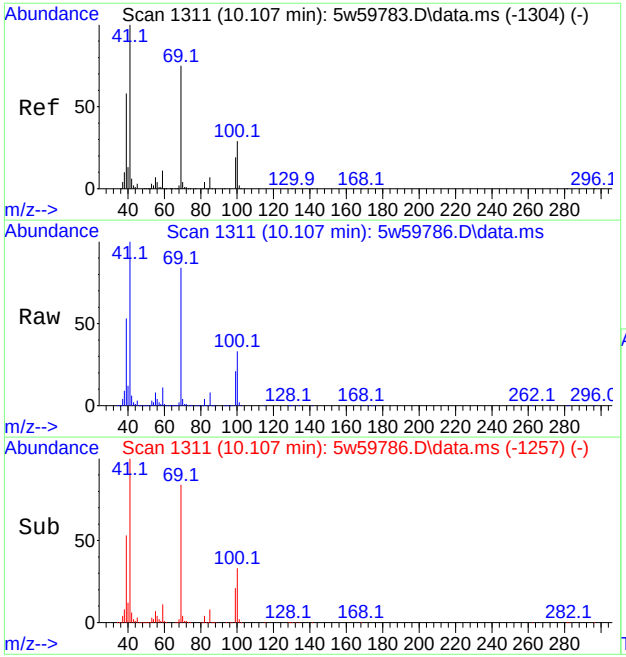


#62
HEPTANE
Concen: 36.15 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 3734901

Ion	Ratio	Lower	Upper
43	100		
71	59.6	24.5	84.5
57	59.3	26.2	86.2

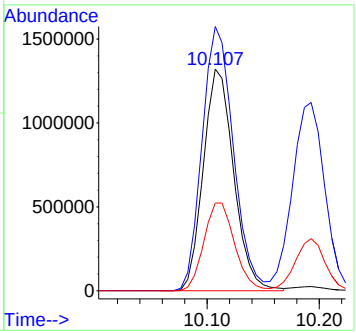


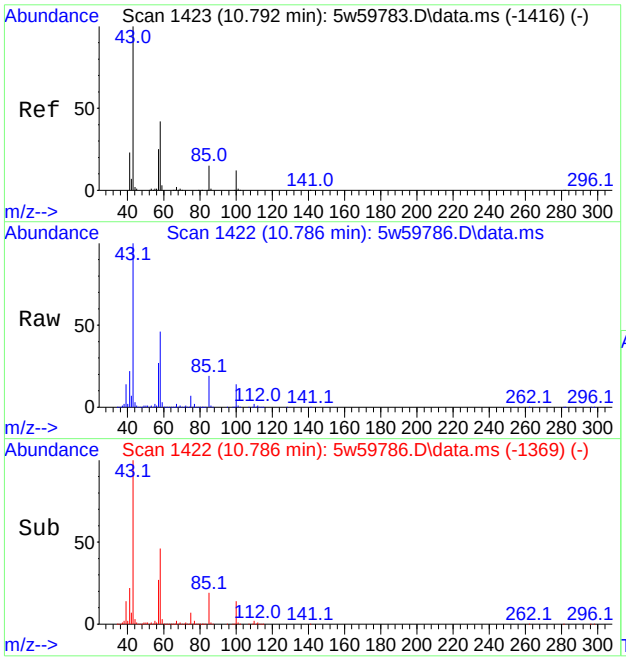


#63
METHYL METHACRYLATE
Concen: 41.16 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 2494133

Ion	Ratio	Lower	Upper
69	100		
41	121.8	95.3	155.3
100	40.1	6.3	66.3

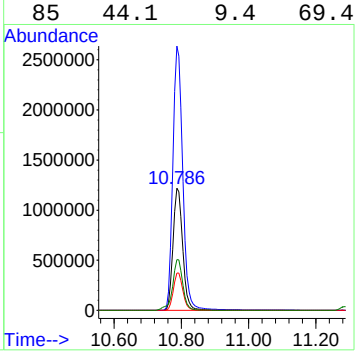


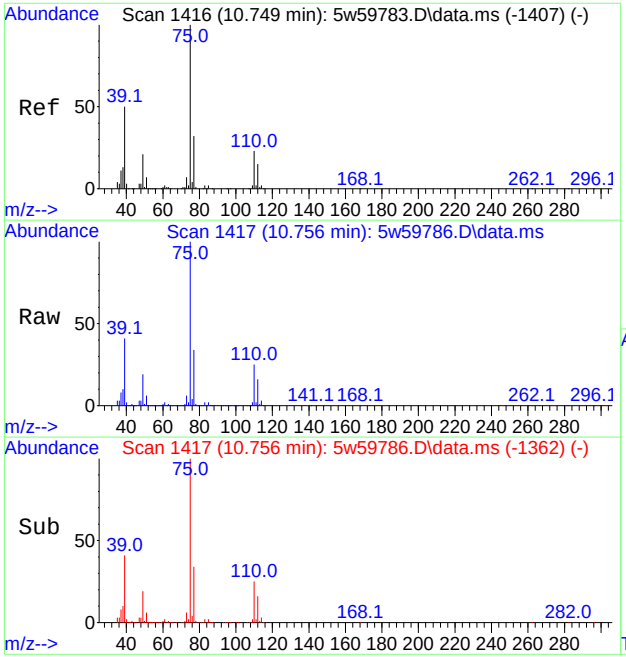


#64
METHYL ISOBUTYL KETONE
Concen: 38.84 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 2440543

Ion	Ratio	Lower	Upper
58	100		
43	220.5	209.2	269.2
100	30.5	0.0	58.8
85	44.1	9.4	69.4

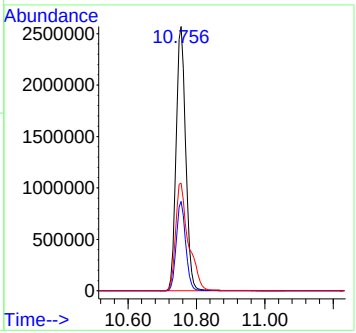


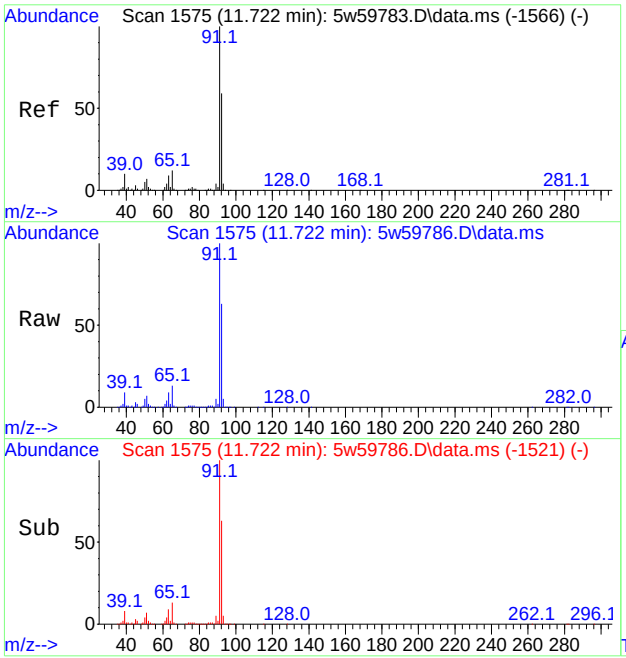


#65
cis-1,3-DICHLOROPROPENE
Concen: 41.46 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5041121

Ion	Ratio	Lower	Upper
75	100		
77	33.3	2.2	62.2
39	54.5	34.3	94.3

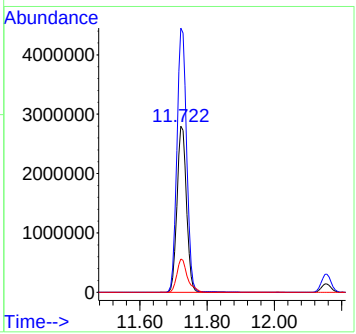


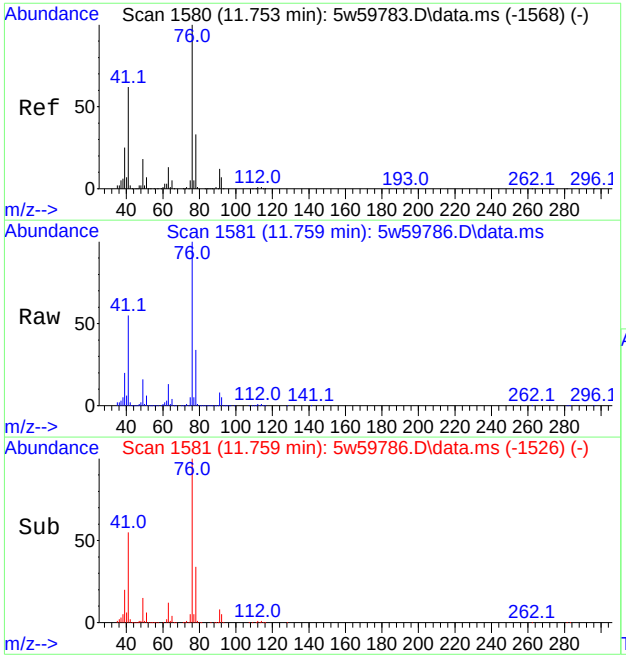


#66
TOLUENE
Concen: 41.16 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 92 Resp: 5480196

Ion	Ratio	Lower	Upper
92	100		
91	163.0	140.1	200.1
65	22.6	0.0	53.1

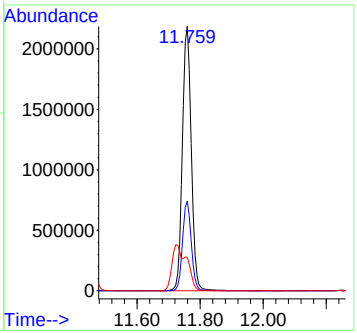


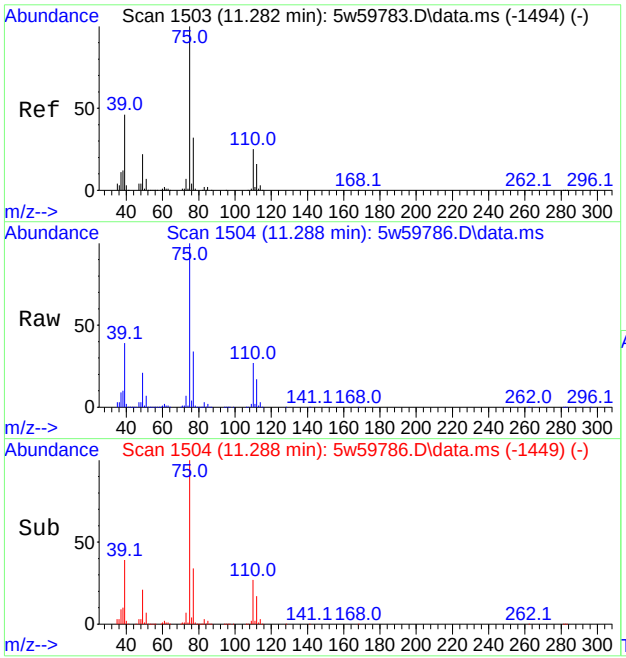


#67
1,3-DICHLOROPROPANE
Concen: 38.74 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 4271872

Ion	Ratio	Lower	Upper
76	100		
78	33.4	23.2	43.0
63	11.6	7.1	13.1

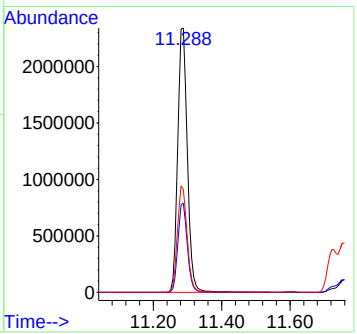


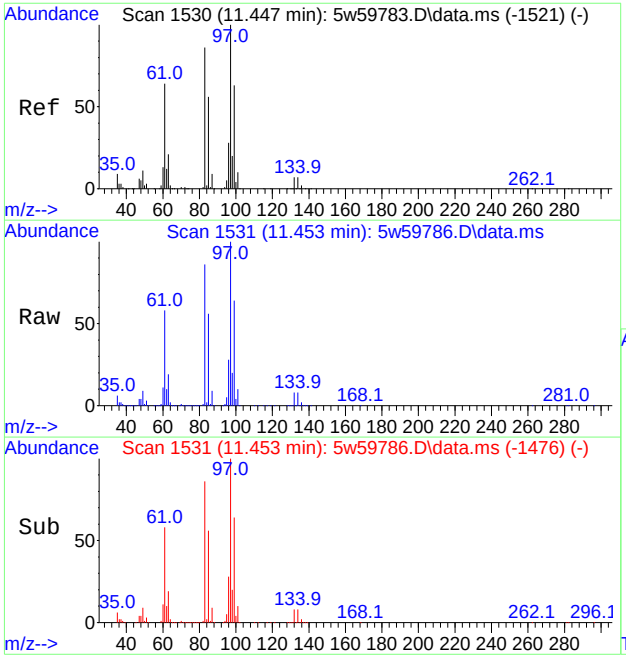


#68
trans-1,3-DICHLOROPROPENE
Concen: 40.93 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 4565890

Ion	Ratio	Lower	Upper
75	100		
77	33.1	1.6	61.6
39	40.9	16.1	76.1

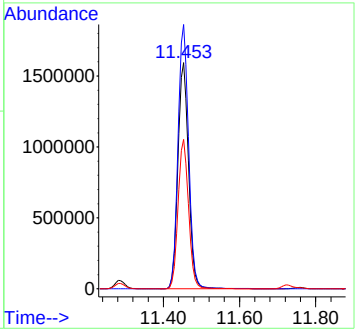


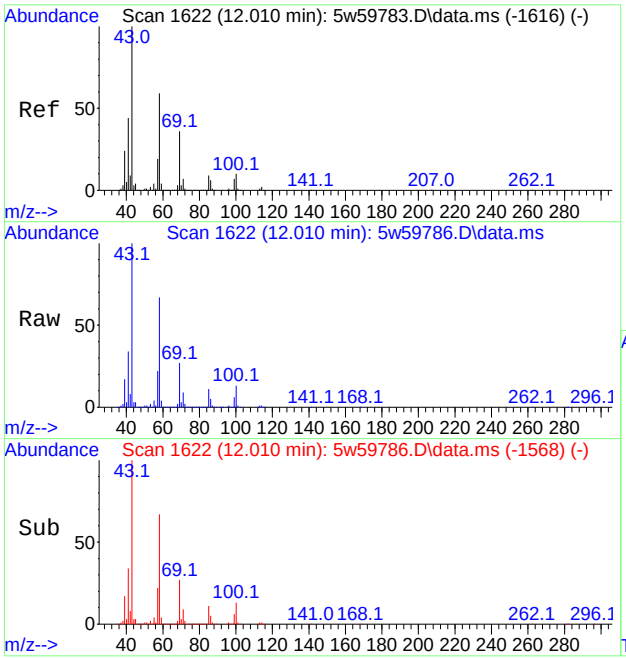


#69
1,1,2-TRICHLOROETHANE
Concen: 42.06 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 3077034

Ion	Ratio	Lower	Upper
83	100		
97	116.8	86.3	146.3
85	65.4	35.3	95.3

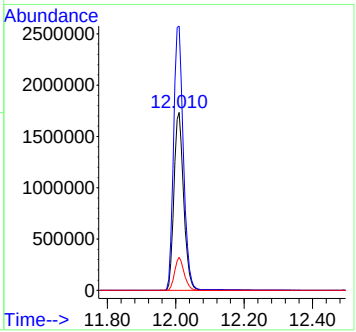


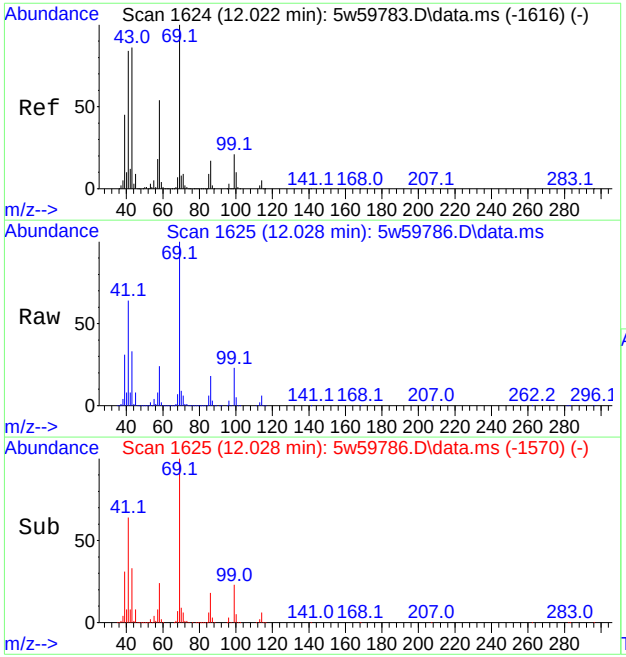


#71
2-HEXANONE
Concen: 32.66 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 3450029

Ion	Ratio	Lower	Upper
58	100		
43	150.6	137.2	197.2
100	18.4	0.0	46.9

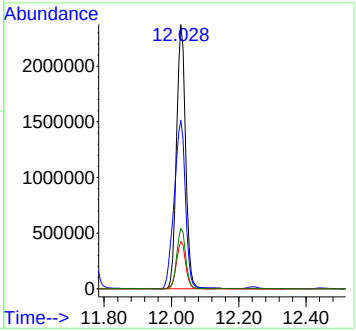


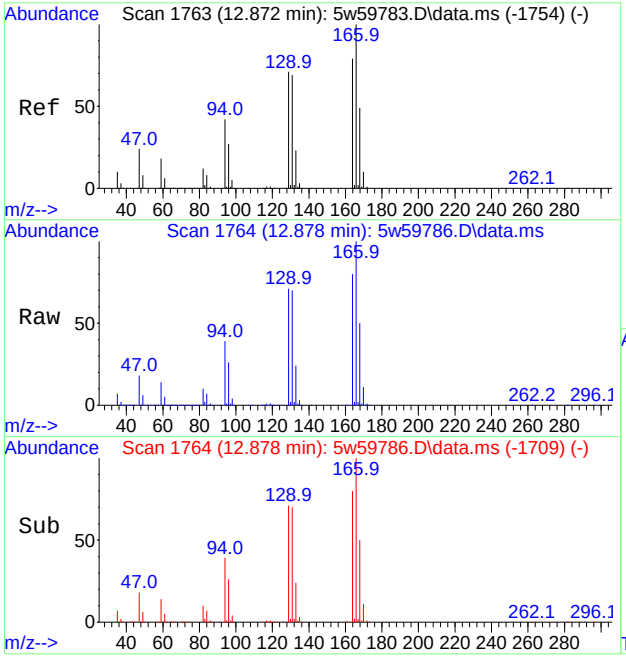


#72
ETHYL METHACRYLATE
Concen: 33.31 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 4427593

Ion	Ratio	Lower	Upper
69	100		
41	79.2	64.0	119.0
86	18.2	12.0	22.4
99	22.8	15.0	27.8

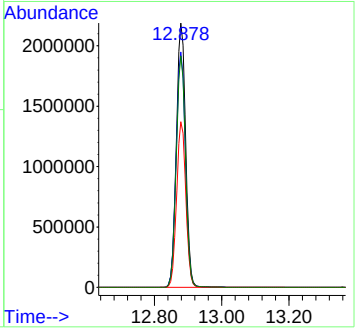


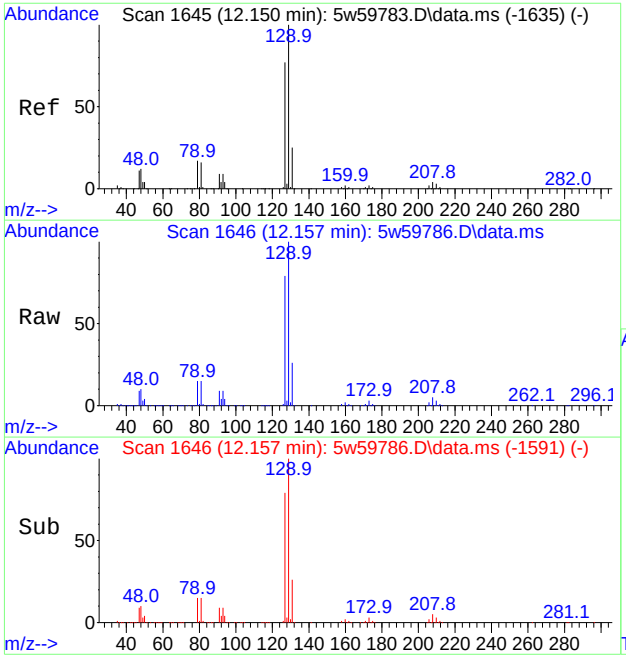


#73
TETRACHLOROETHYLENE
Concen: 31.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:164 Resp: 4203511

Ion	Ratio	Lower	Upper
164	100		
129	89.3	59.7	119.7
168	62.4	32.2	92.2
131	87.7	57.8	117.8

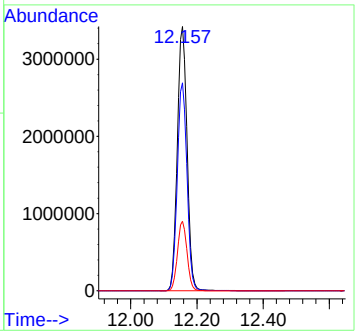


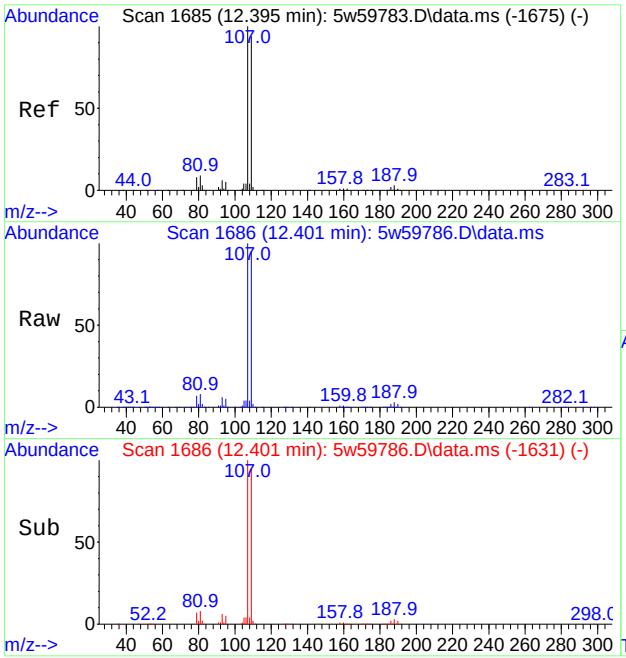


#74
DIBROMOCHLOROMETHANE
Concen: 30.46 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:129 Resp: 7029117

Ion	Ratio	Lower	Upper
129	100		
127	78.5	47.1	107.1
131	25.8	0.0	54.5

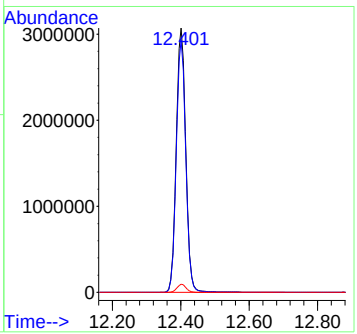


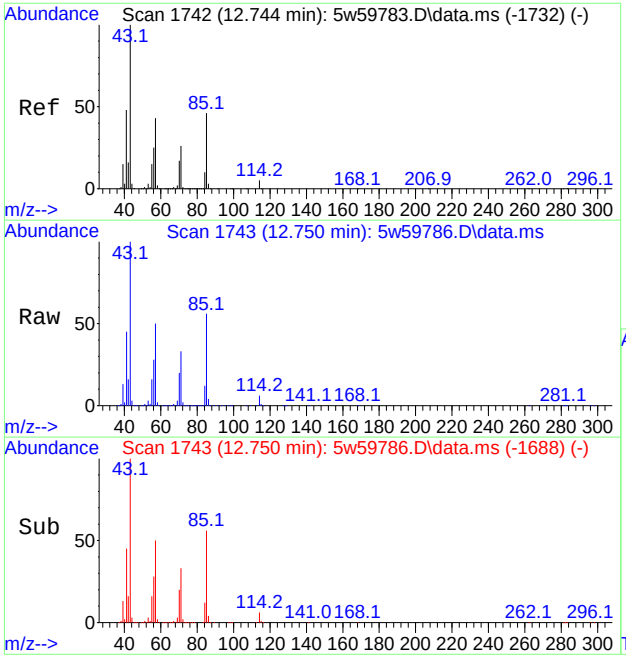


#75
1,2-DIBROMOETHANE
Concen: 33.98 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:107 Resp: 5931699

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

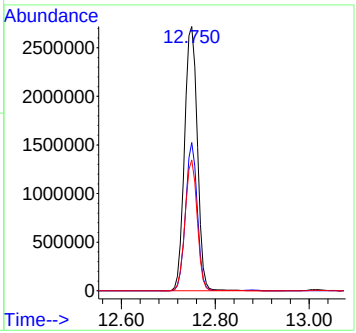


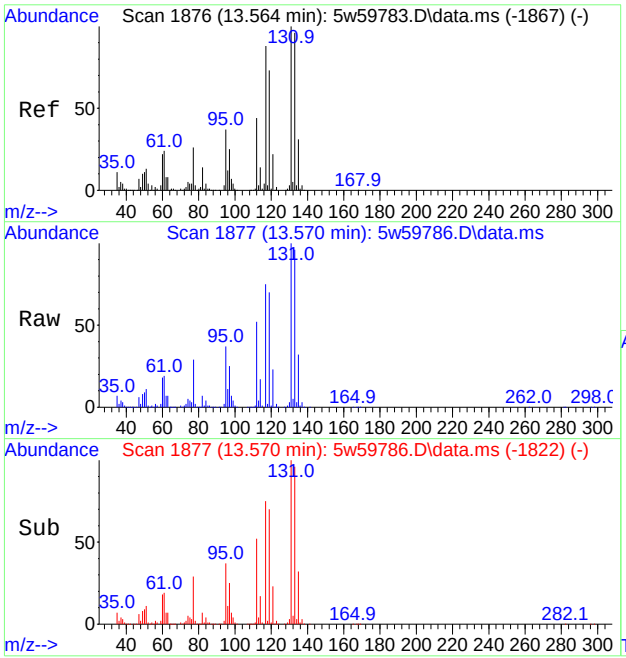


#76
OCTANE
Concen: 28.88 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 5161401

Ion	Ratio	Lower	Upper
43	100		
85	51.2	14.6	74.6
57	46.9	13.7	73.7

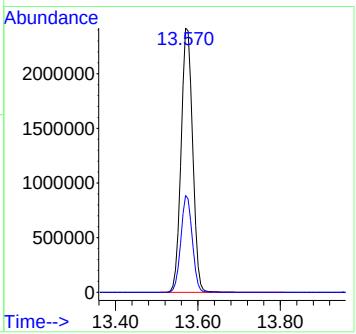


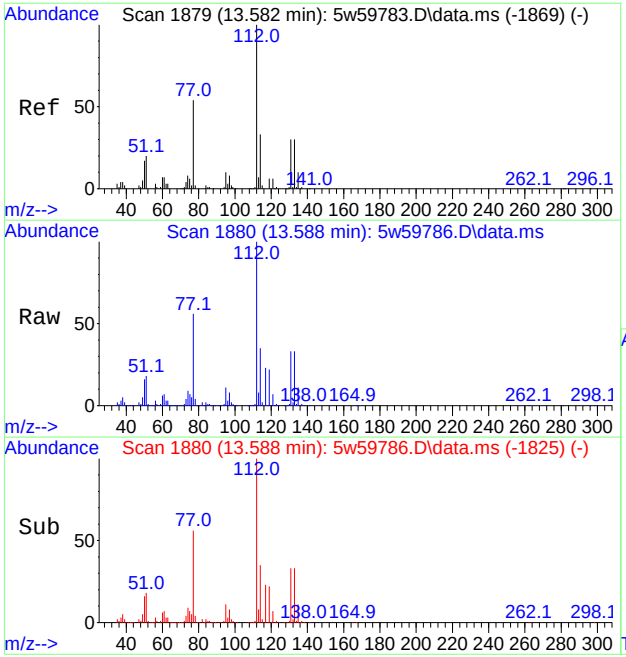


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 31.92 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:131 Resp: 4713028

Ion	Ratio	Lower	Upper
131	100		
95	36.1	6.5	66.5

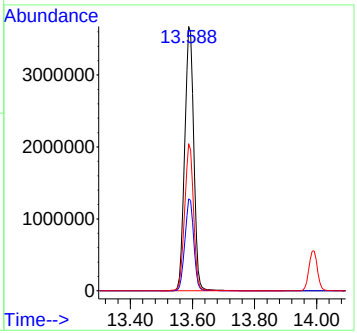


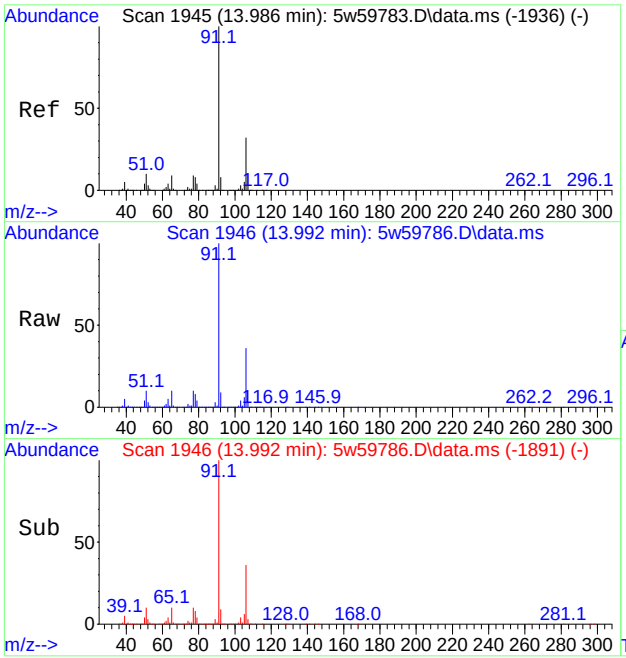


#78
CHLOROBENZENE
Concen: 30.47 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:112 Resp: 7439915

Ion	Ratio	Lower	Upper
112	100		
114	34.0	2.6	62.6
77	54.9	25.4	85.4

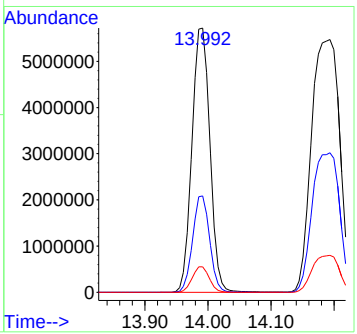


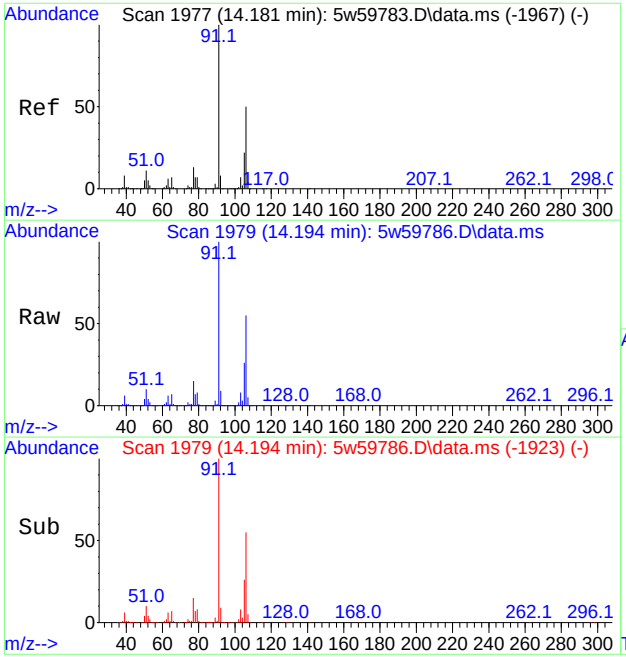


#79
ETHYLBENZENE
Concen: 31.54 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp:11379916

Ion	Ratio	Lower	Upper
91	100		
106	34.6	1.3	61.3
77	9.2	0.0	38.6

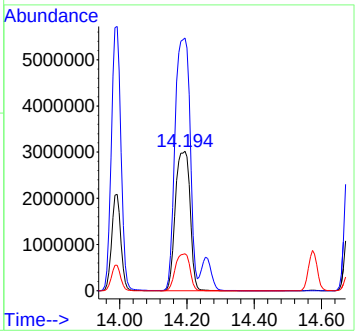


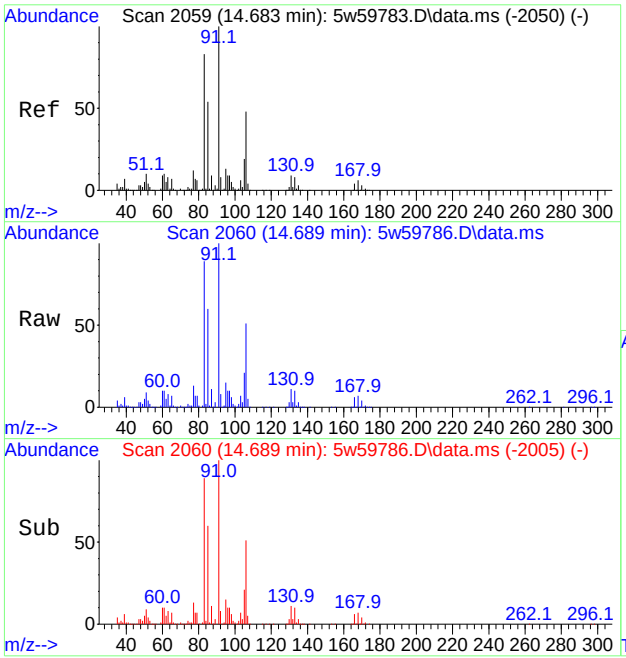


#80
m,p-XYLENE
Concen: 65.12 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 9117454

Ion	Ratio	Lower	Upper
106	100		
91	181.2	171.0	231.0
77	26.6	0.0	56.7

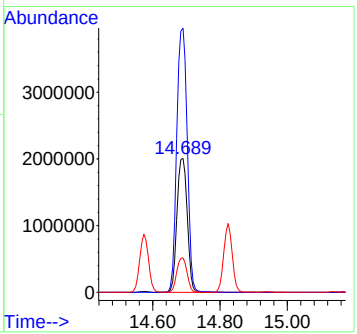


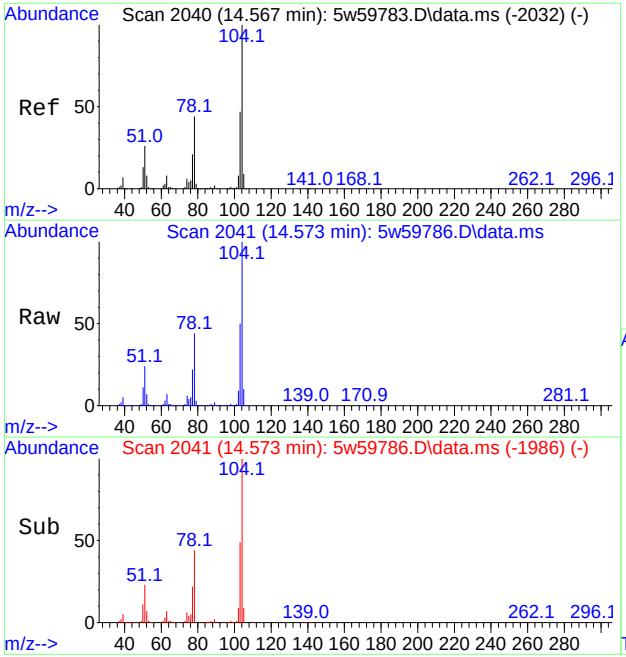


#81
o-XYLENE
Concen: 32.29 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 4240336

Ion	Ratio	Lower	Upper
106	100		
91	200.7	181.6	241.6
77	25.7	0.0	56.6

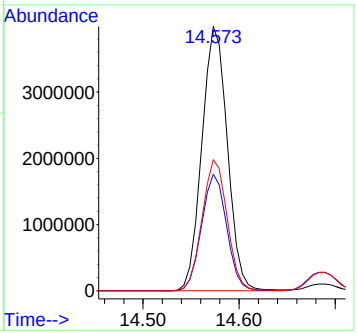


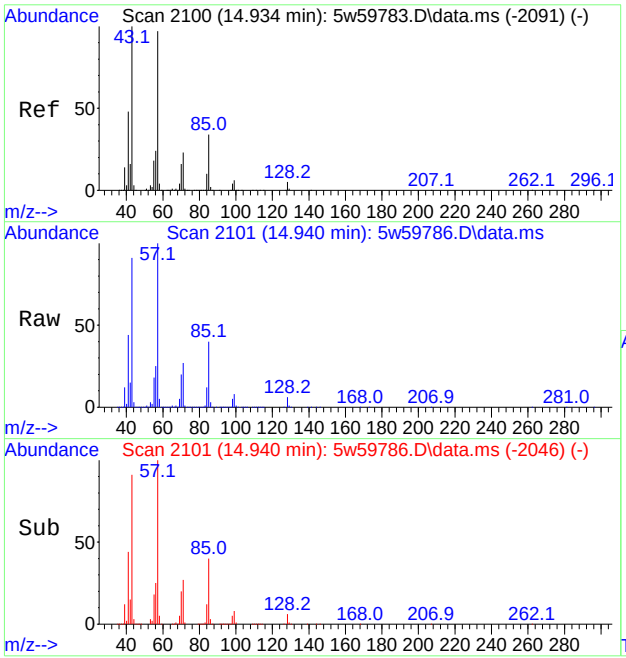


#82
STYRENE
Concen: 37.26 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:104 Resp: 7405410

Ion	Ratio	Lower	Upper
104	100		
78	43.4	13.3	73.3
103	48.7	17.2	77.2

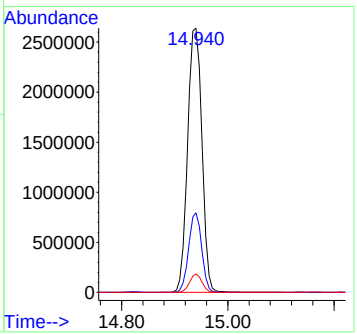


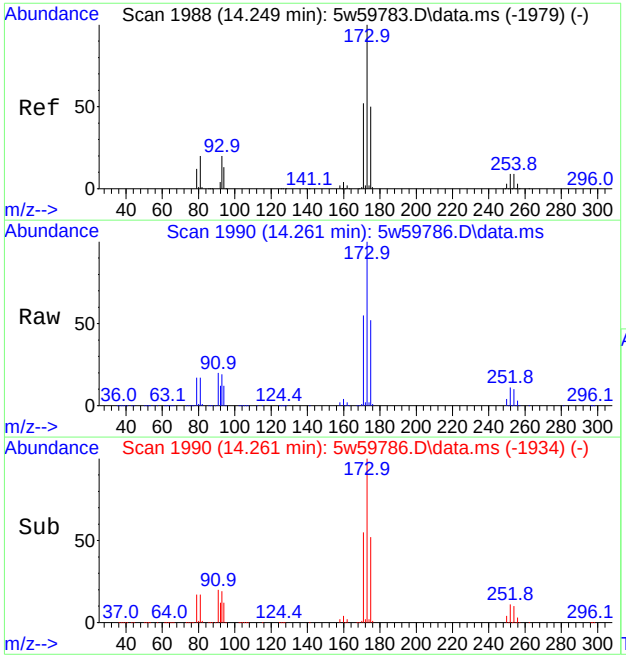


#83
NONANE
Concen: 27.57 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 4961142

Ion	Ratio	Lower	Upper
43	100		
71	27.5	0.0	52.7
128	6.1	0.0	34.7

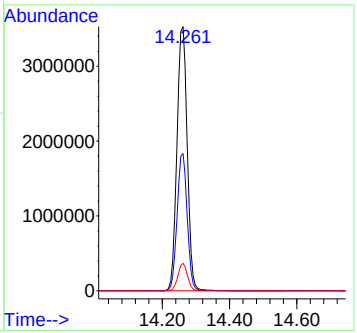


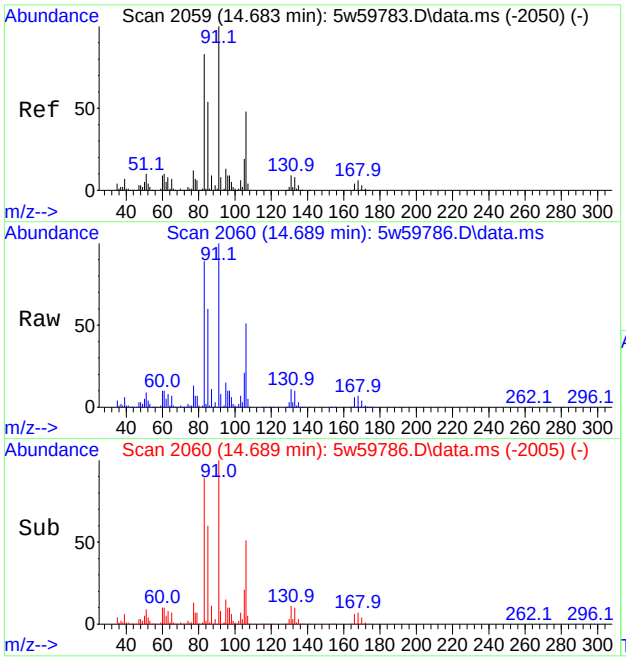


#84
BROMOFORM
Concen: 32.02 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:173 Resp: 7504388

Ion	Ratio	Lower	Upper
173	100		
175	51.0	19.6	79.6
254	9.8	0.0	39.0

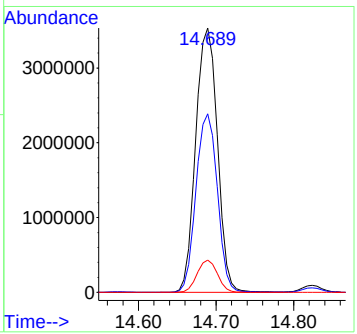


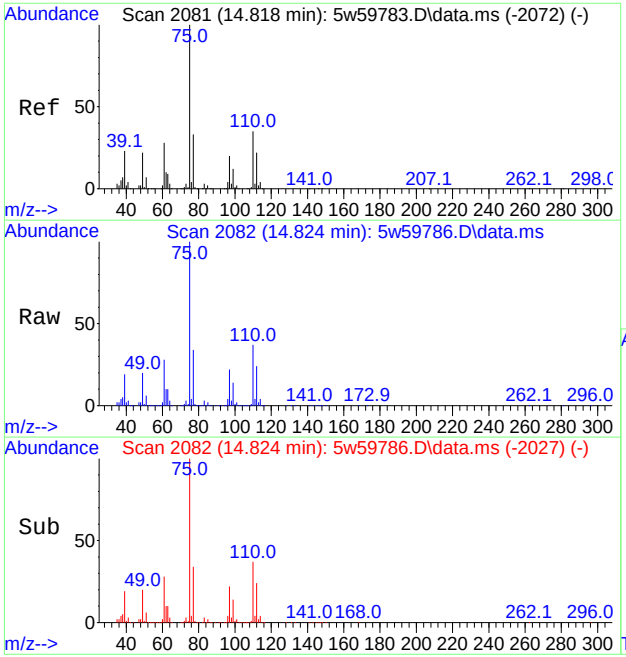


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 29.32 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6869258

Ion	Ratio	Lower	Upper
83	100		
85	66.6	35.2	95.2
131	11.5	0.0	40.3

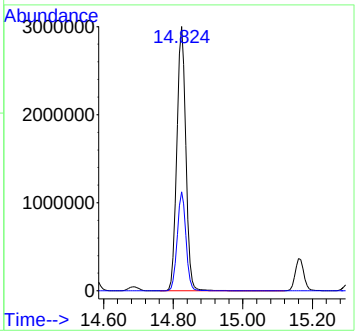


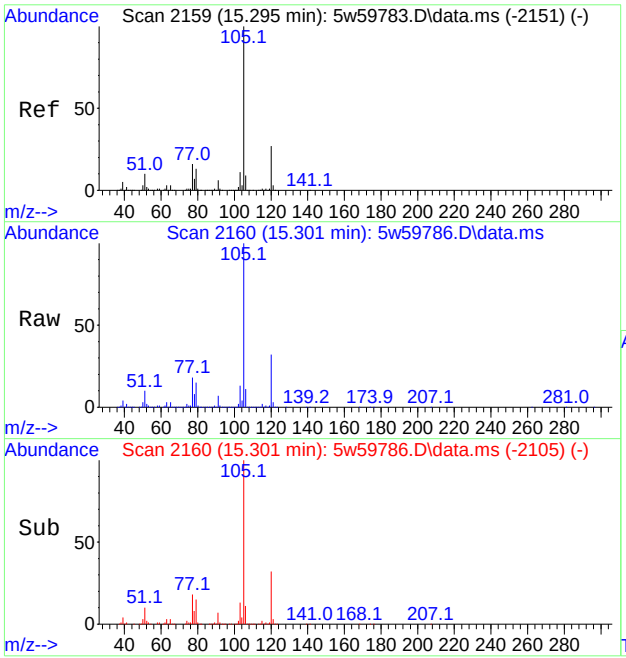


#87
1,2,3-TRICHLOROPROPANE
Concen: 29.33 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5400423

Ion	Ratio	Lower	Upper
75	100		
110	36.5	4.4	64.4

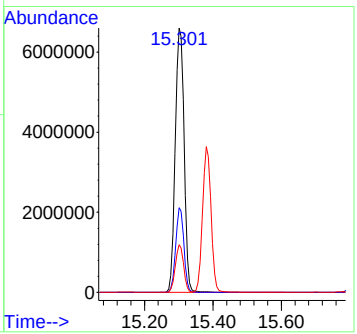


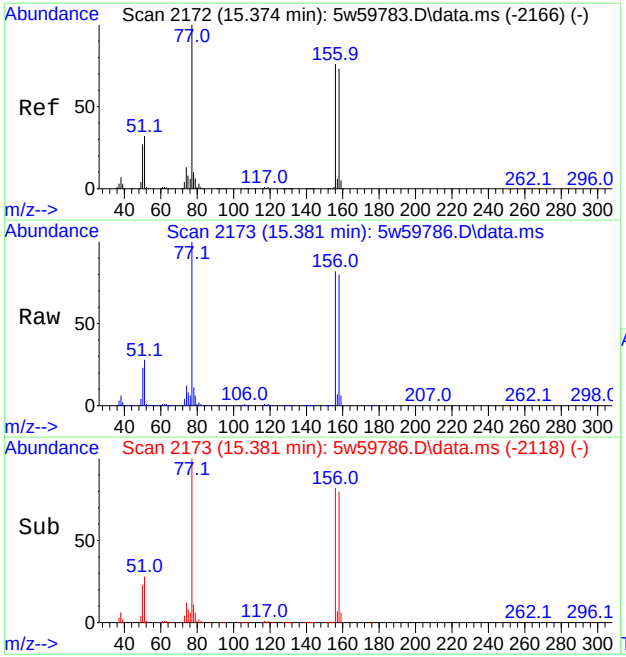


#88
ISOPROPYLBENZENE
Concen: 28.72 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11977220

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	56.0
77	16.8	0.0	45.6

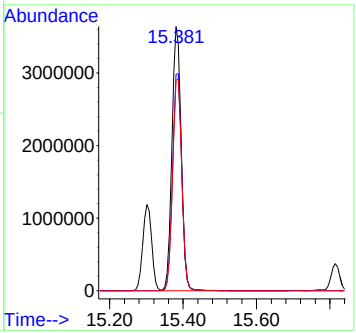


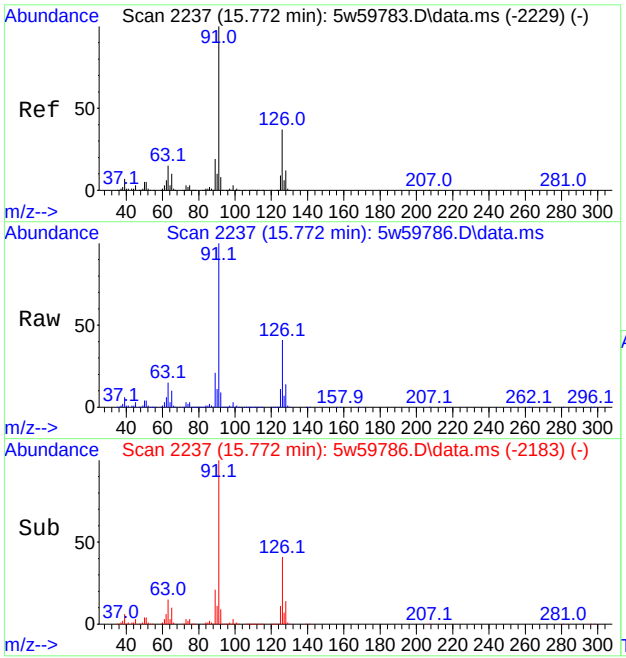


#89
BROMOBENZENE
Concen: 29.55 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 77 Resp: 6360723

Ion	Ratio	Lower	Upper
77	100		
156	82.5	54.9	101.9
158	80.2	53.5	99.3

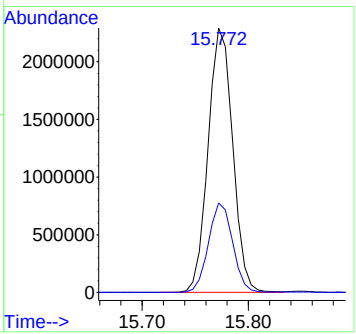


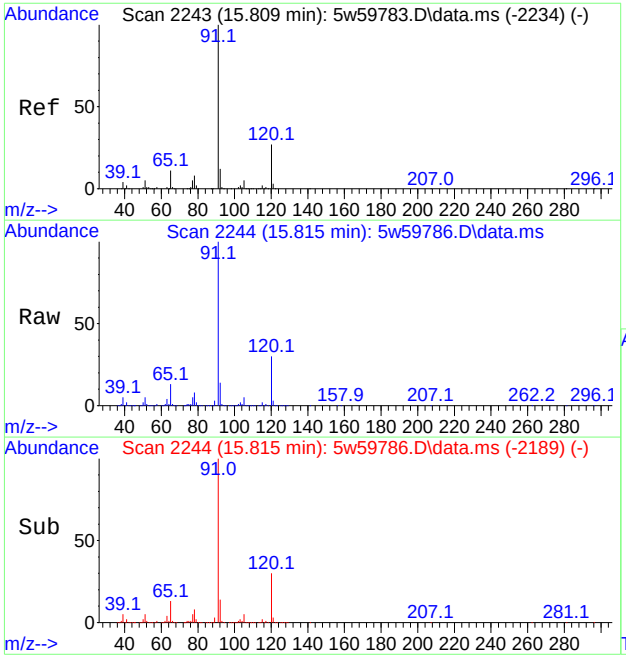


#90
2-CHLOROTOLUENE
Concen: 32.56 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:126 Resp: 3685448

Ion	Ratio	Lower	Upper
126	100		
128	33.2	2.7	62.7

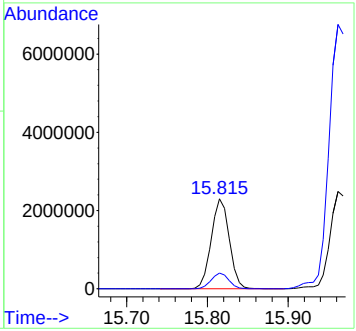


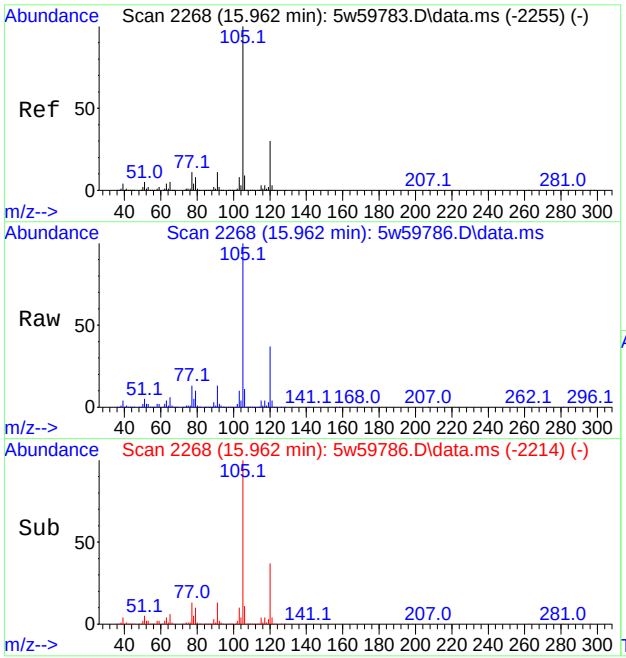


#91
n-PROPYLBENZENE
Concen: 31.94 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:120 Resp: 3584454

Ion	Ratio	Lower	Upper
120	100		
105	17.1	0.0	47.0

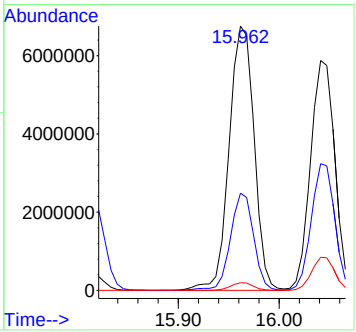


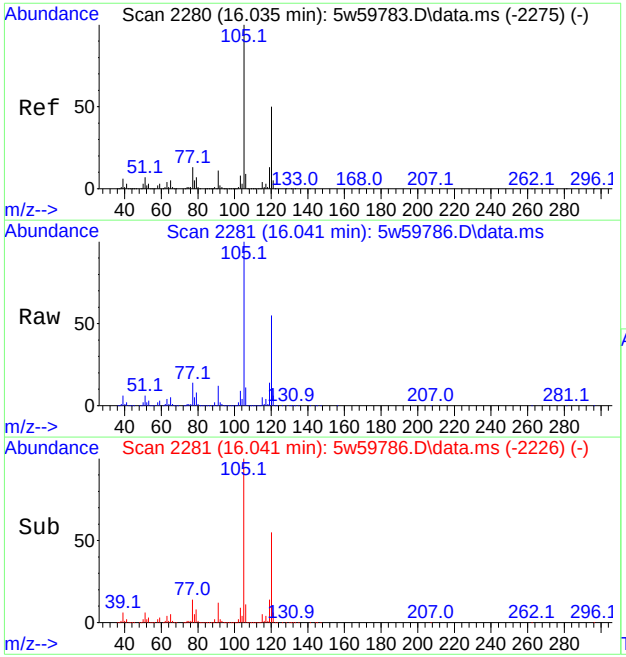


#92
4-ETHYLTOLUENE
Concen: 30.19 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11670979

Ion	Ratio	Lower	Upper
105	100		
120	34.0	0.0	59.9
119	2.7	0.0	32.3

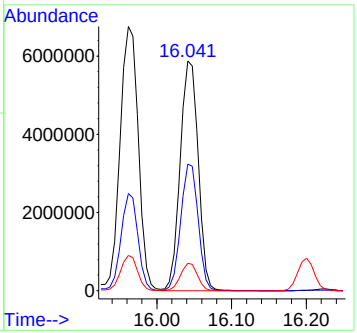


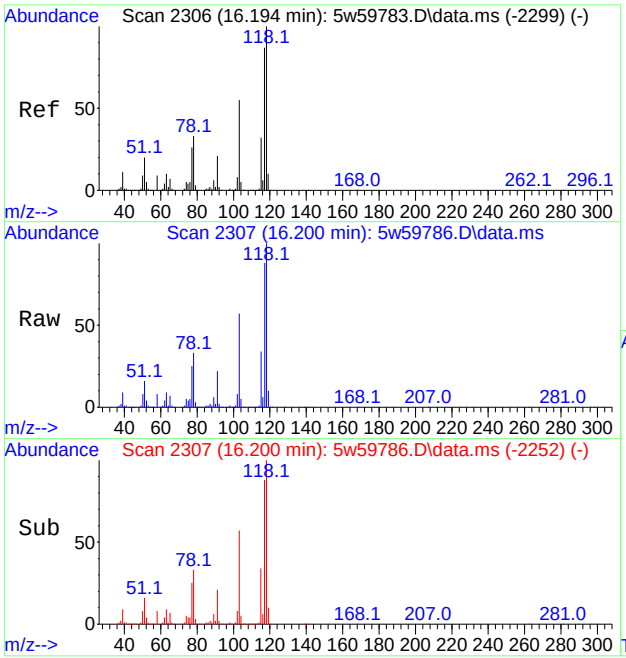


#93
1,3,5-TRIMETHYLBENZENE
Concen: 28.34 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9865714

Ion	Ratio	Lower	Upper
105	100		
120	53.1	19.4	79.4
91	11.4	0.0	40.8

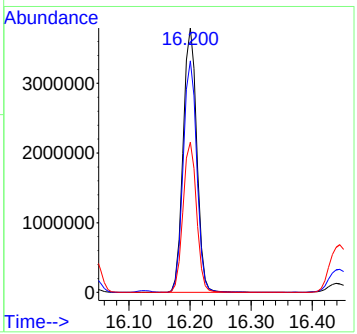


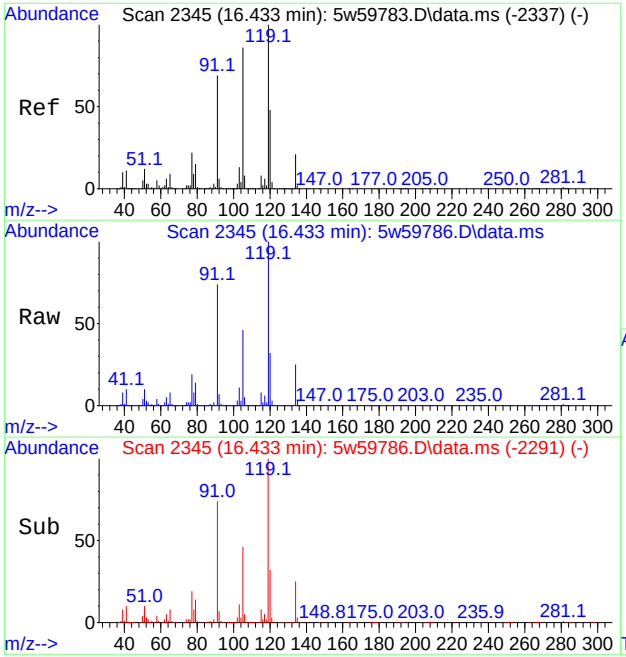


#94
ALPHA-METHYLSTYRENE
Concen: 33.71 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:118 Resp: 5900787

Ion	Ratio	Lower	Upper
118	100		
117	87.6	60.9	113.1
103	56.3	38.6	71.8

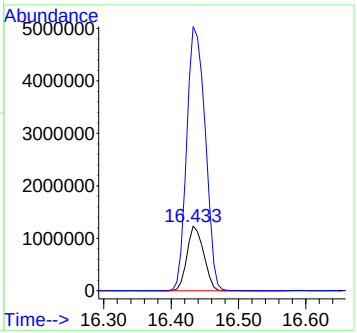


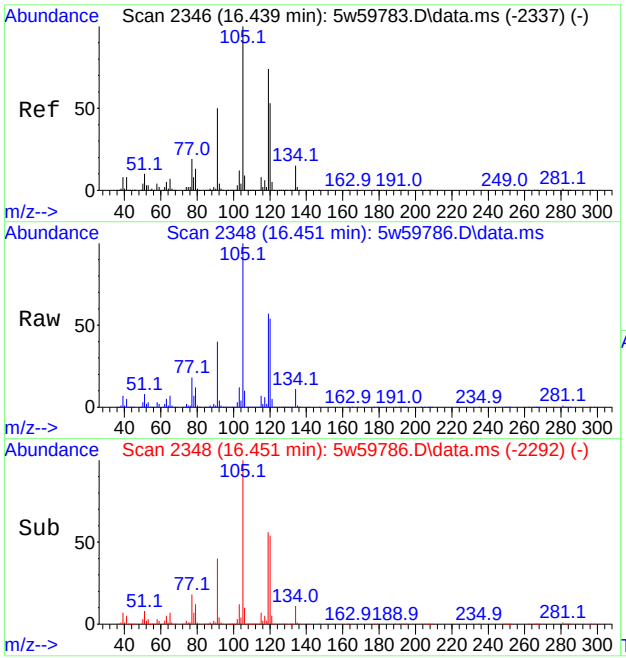


#95
tert-BUTYLBENZENE
Concen: 28.46 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2122779

Ion	Ratio	Lower	Upper
134	100		
119	455.7	459.3	519.3#

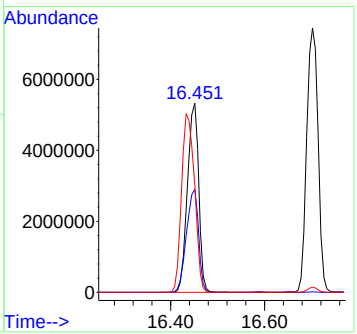


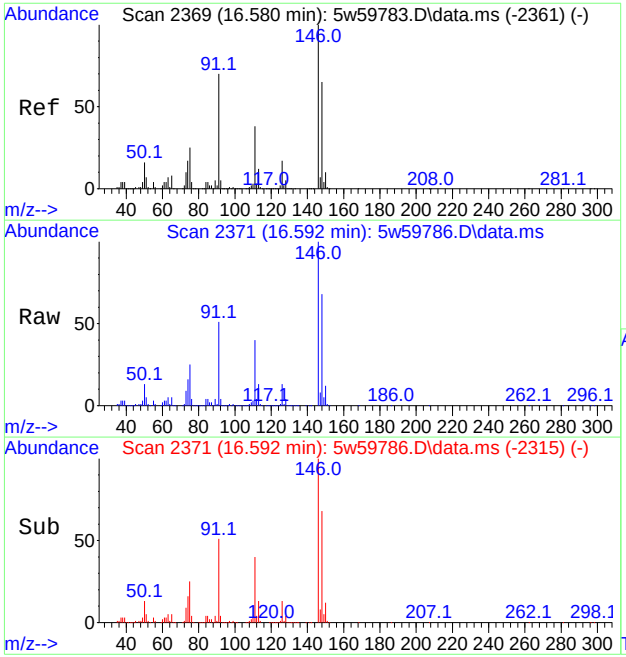


#96
1,2,4-TRIMETHYLBENZENE
Concen: 26.06 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 8886934

Ion	Ratio	Lower	Upper
105	100		
120	58.6	25.7	85.7
119	108.9	75.7	135.7

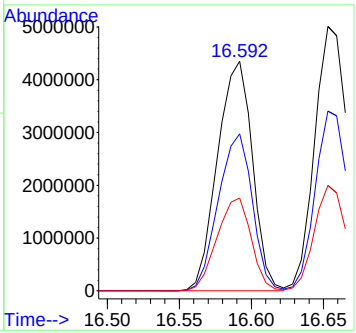


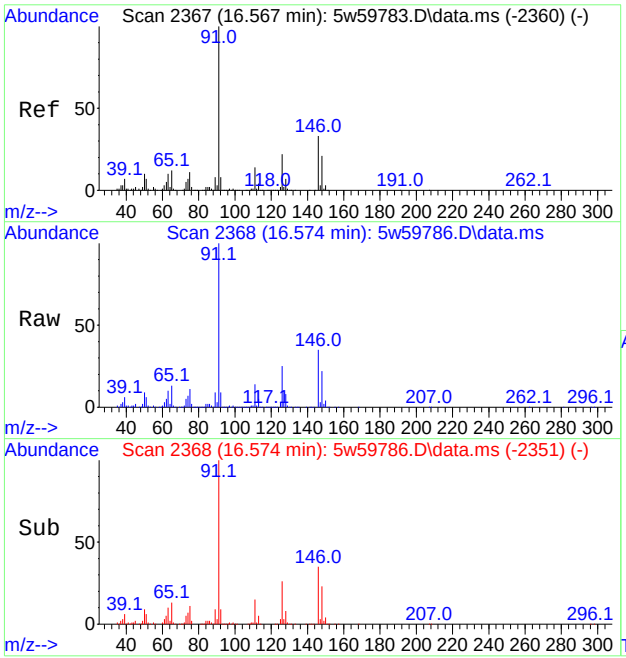


#97
m-DICHLOROBENZENE
Concen: 27.06 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7359121

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.8	94.8
111	39.4	8.2	68.2

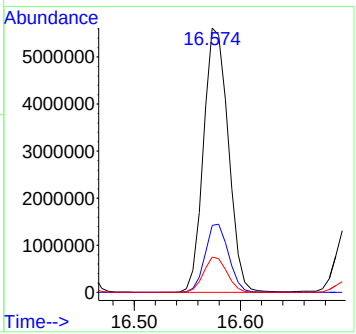


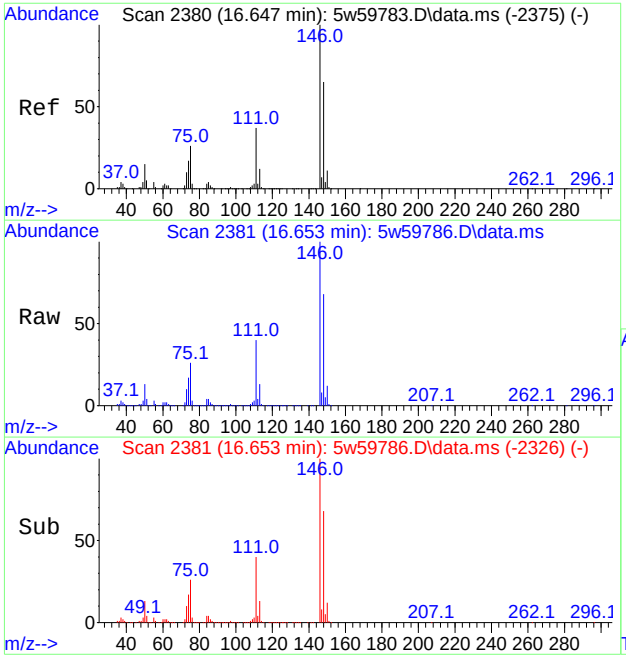


#98
BENZYL CHLORIDE
Concen: 28.12 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp: 9095992

Ion	Ratio	Lower	Upper
91	100		
126	24.6	0.0	51.7
65	12.7	0.0	42.2

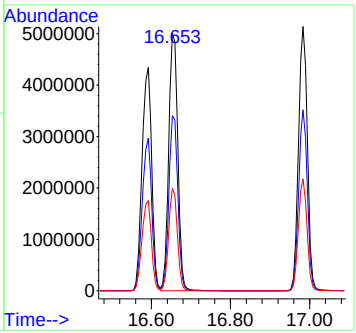


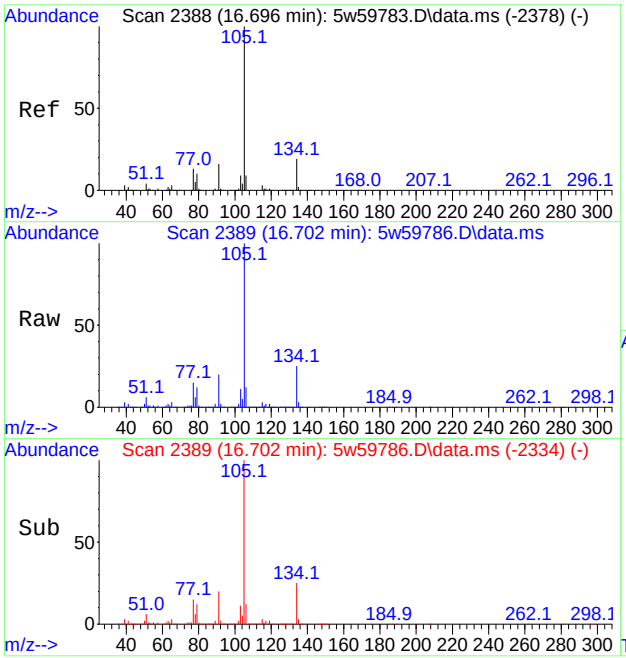


#99
p-DICHLOROBENZENE
Concen: 28.96 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7993903

Ion	Ratio	Lower	Upper
146	100		
148	67.0	34.6	94.6
111	38.3	6.7	66.7

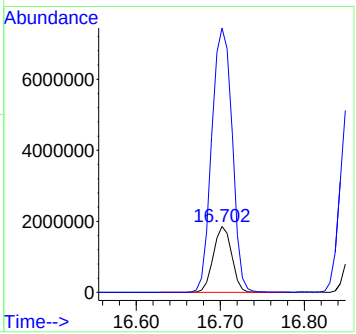


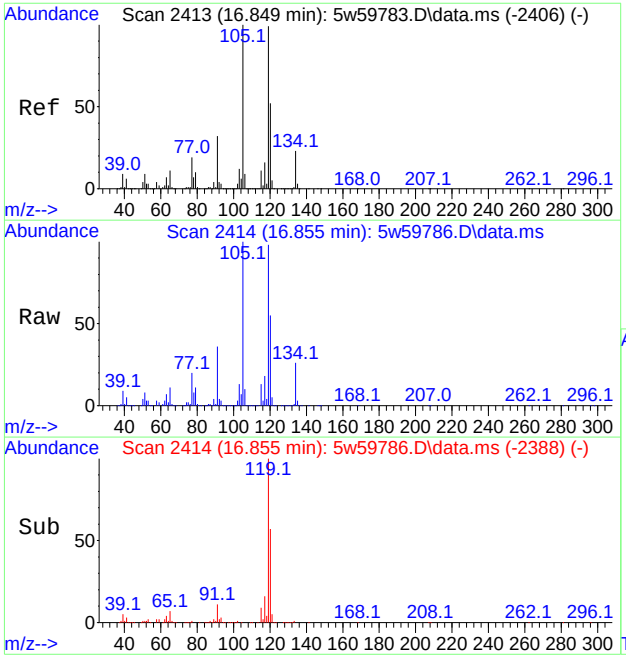


#100
sec-BUTYLBENZENE
Concen: 30.67 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2827725

Ion	Ratio	Lower	Upper
134	100		
105	445.7	502.5	562.5#

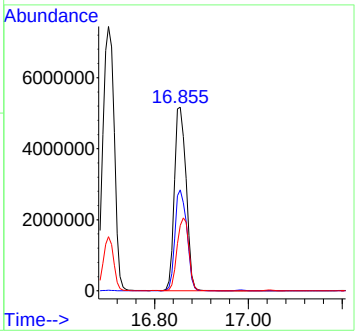


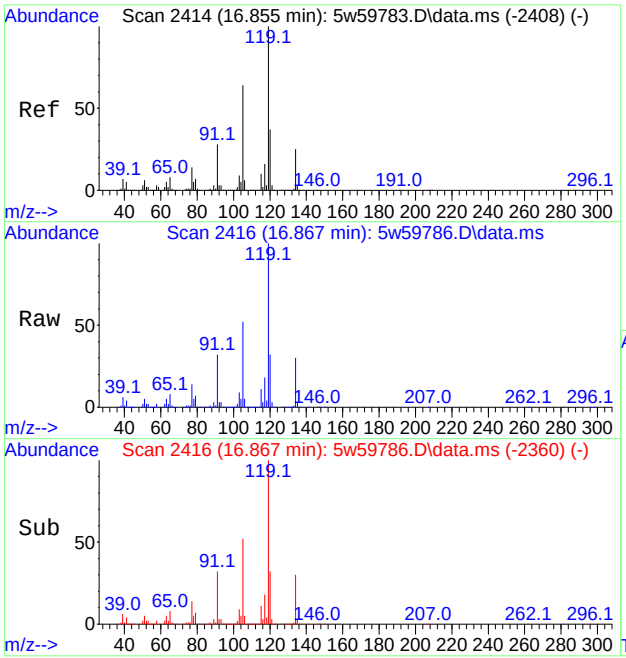


#101
1,2,3-TRIMETHYLBENZENE
Concen: 24.94 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9024748

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	39.4	7.4	67.4

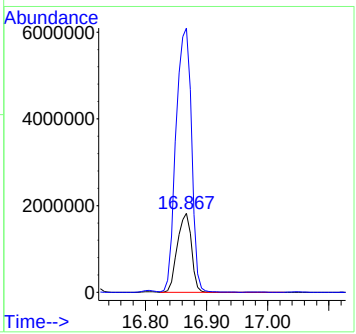


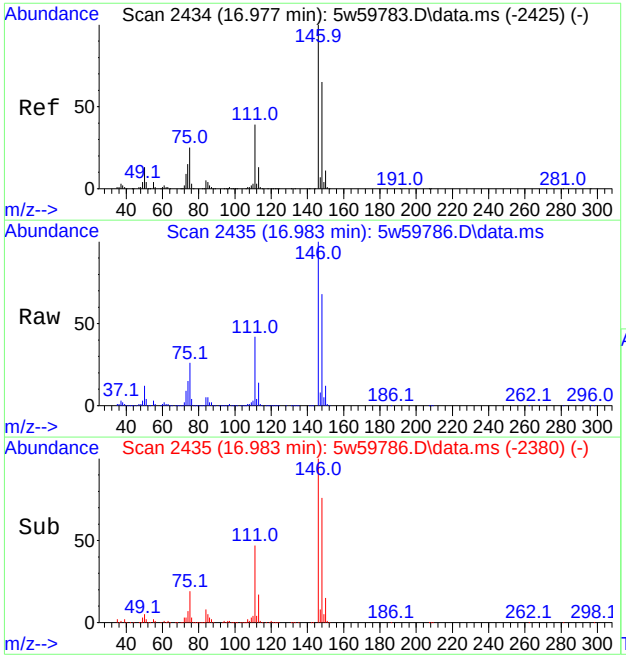


#102
p-ISOPROPYLTOLUENE
Concen: 27.10 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2924462

Ion	Ratio	Lower	Upper
134	100		
119	367.4	377.7	437.7#

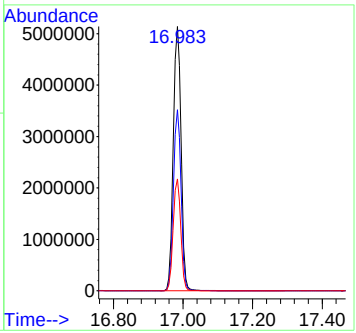


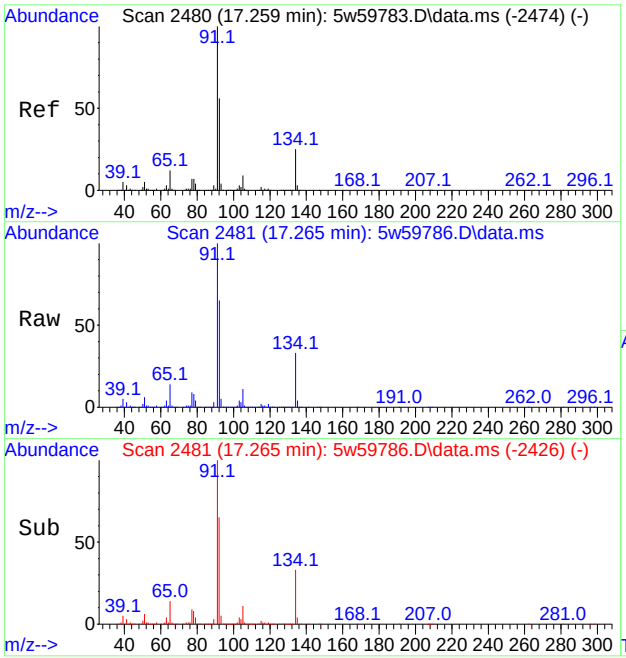


#103
o-DICHLOROBENZENE
Concen: 29.61 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7985671

Ion	Ratio	Lower	Upper
146	100		
148	67.1	34.3	94.3
111	41.2	9.2	69.2

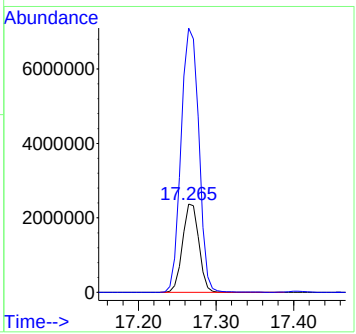


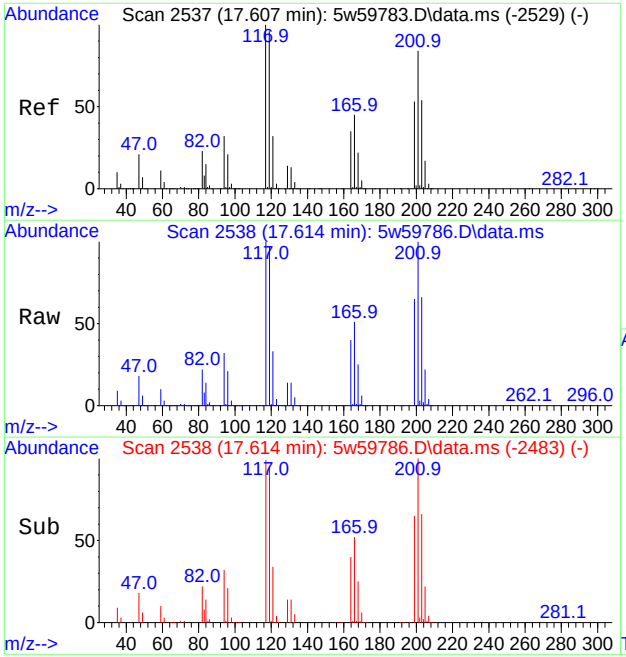


#104
n-BUTYLBENZENE
Concen: 34.55 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 3481921

Ion	Ratio	Lower	Upper
134	100		
91	327.2	363.1	423.1#

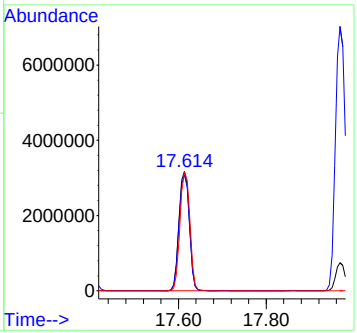


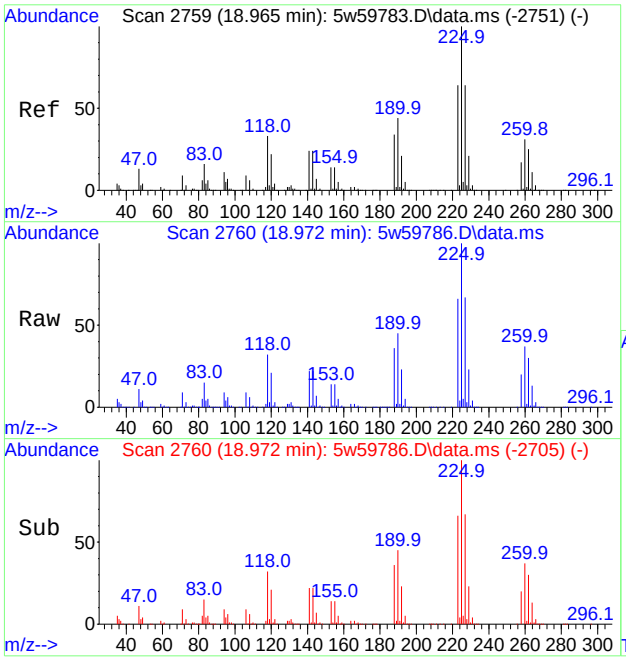


#105
HEXACHLOROETHANE
Concen: 28.92 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 5208368

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	95.1	61.1	113.5

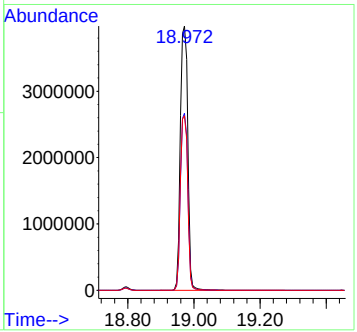


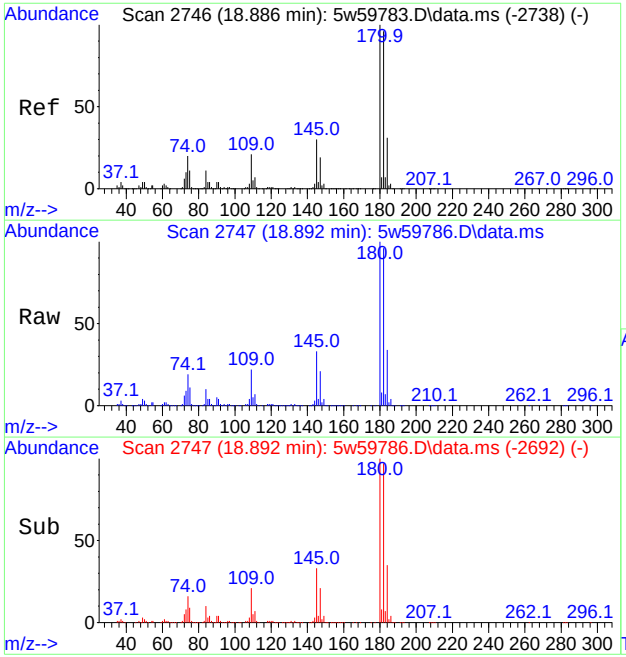


#106
HEXACHLOROBUTADIENE
Concen: 22.78 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:225 Resp: 6236008

Ion	Ratio	Lower	Upper
225	100		
227	66.2	34.2	94.2
223	65.6	33.3	93.3

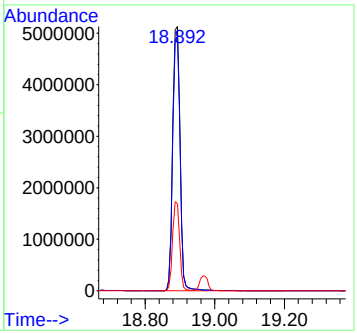


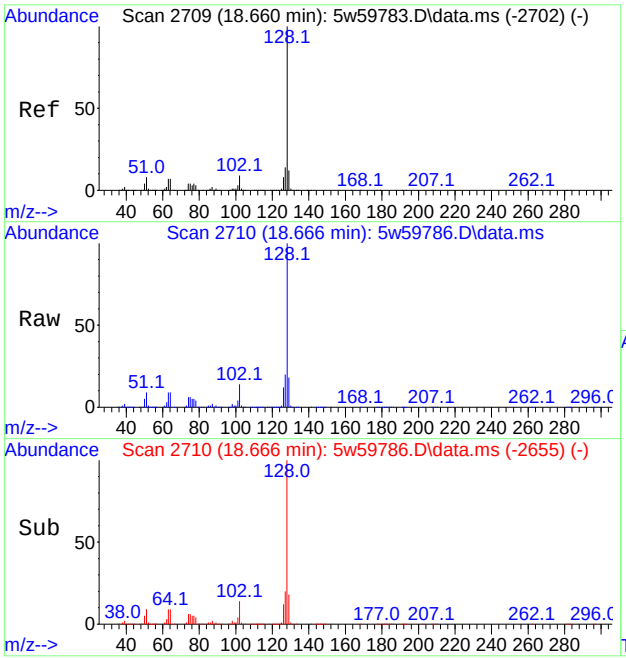


#107
1,2,4-TRICHLOROBENZENE
Concen: 32.01 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:180 Resp: 7600427

Ion	Ratio	Lower	Upper
180	100		
182	95.8	65.4	125.4
145	32.0	0.0	59.4

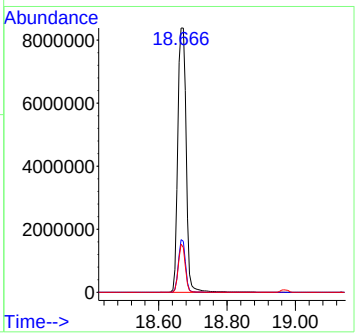


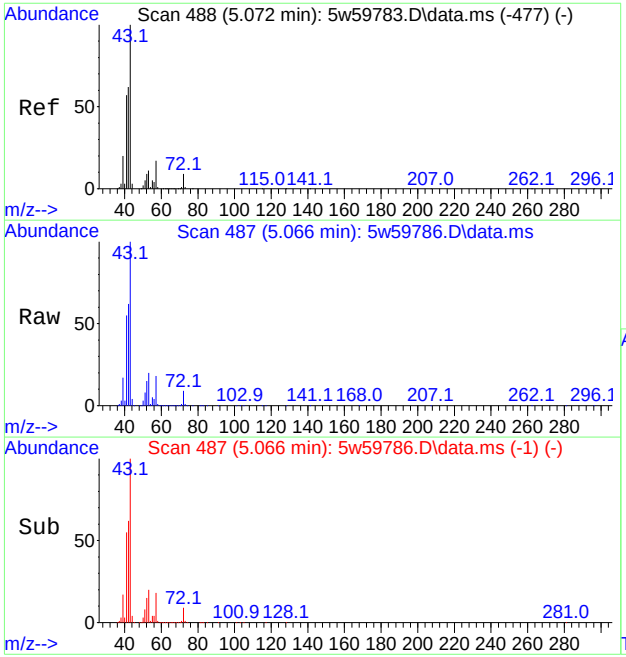


#108
NAPHTHALENE
Concen: 26.02 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:128 Resp:14205927

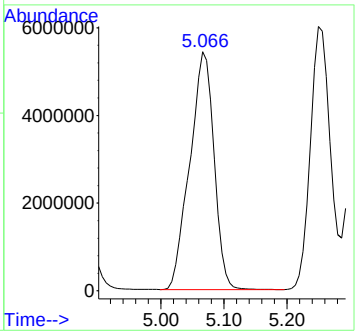
Ion	Ratio	Lower	Upper
128	100		
127	16.9	0.0	43.3
129	15.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 31.68 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:TIC Resp:14466620



Manual Integration Approval Summary

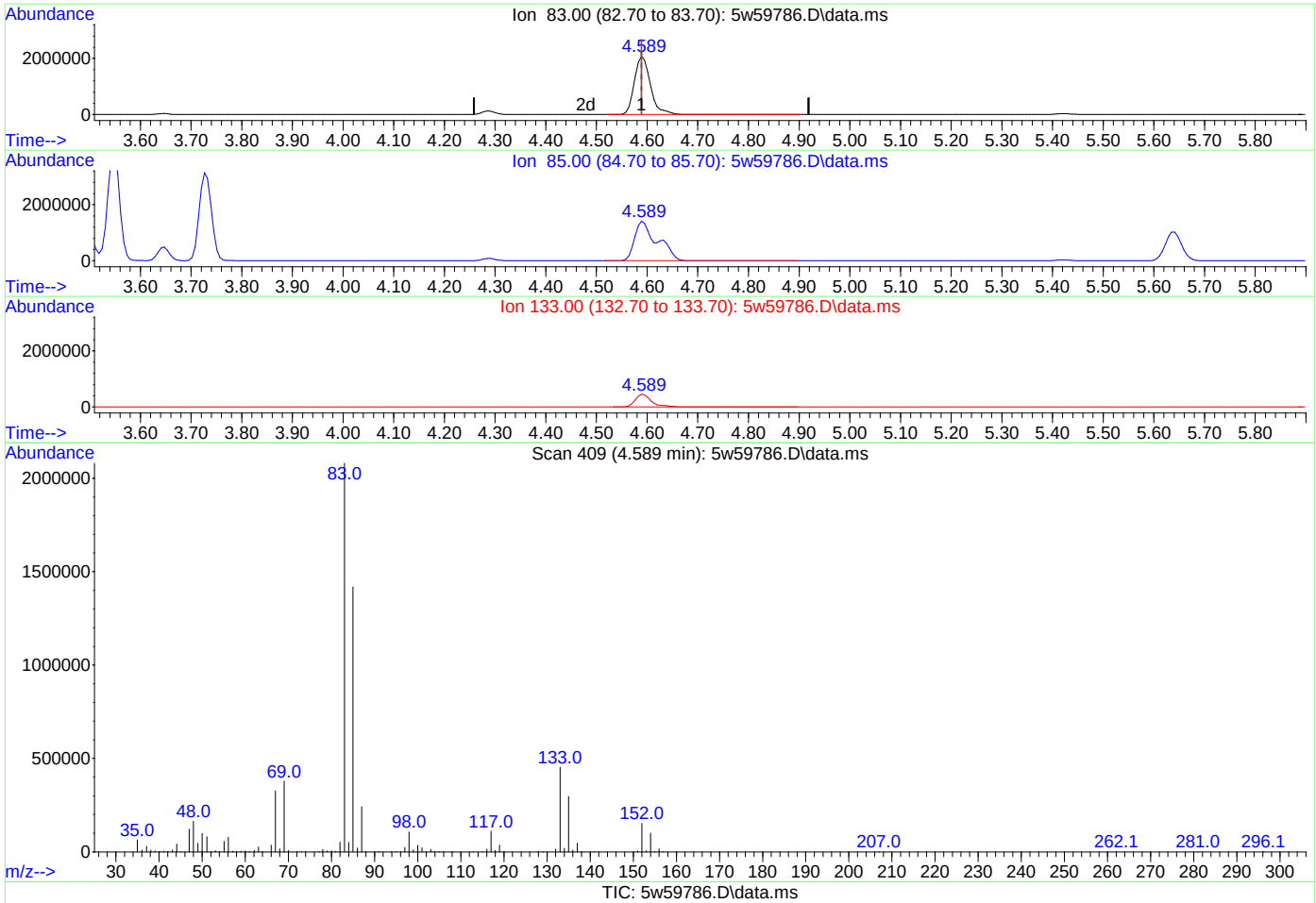
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59786.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 09:38 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV

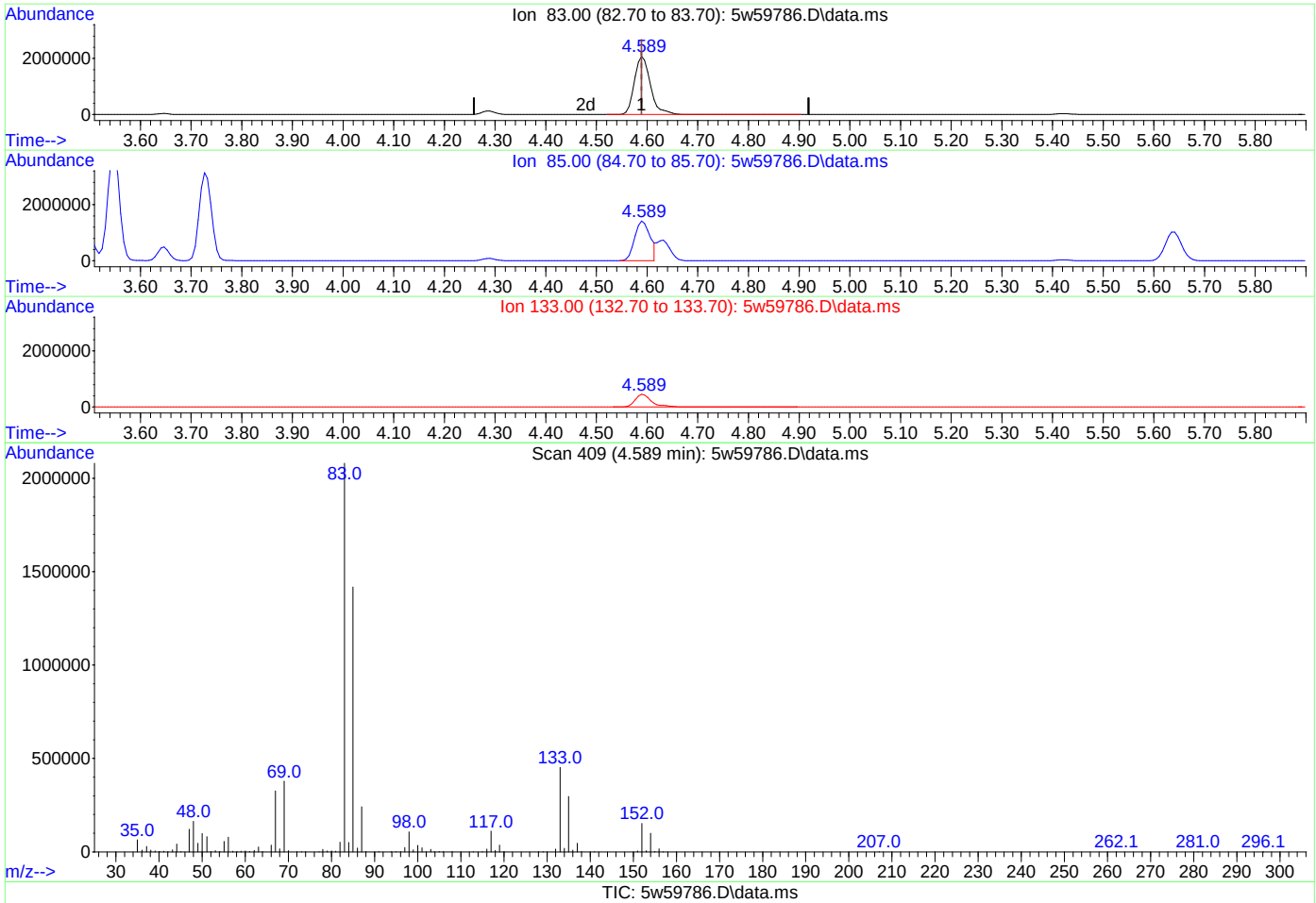
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.64#
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV m

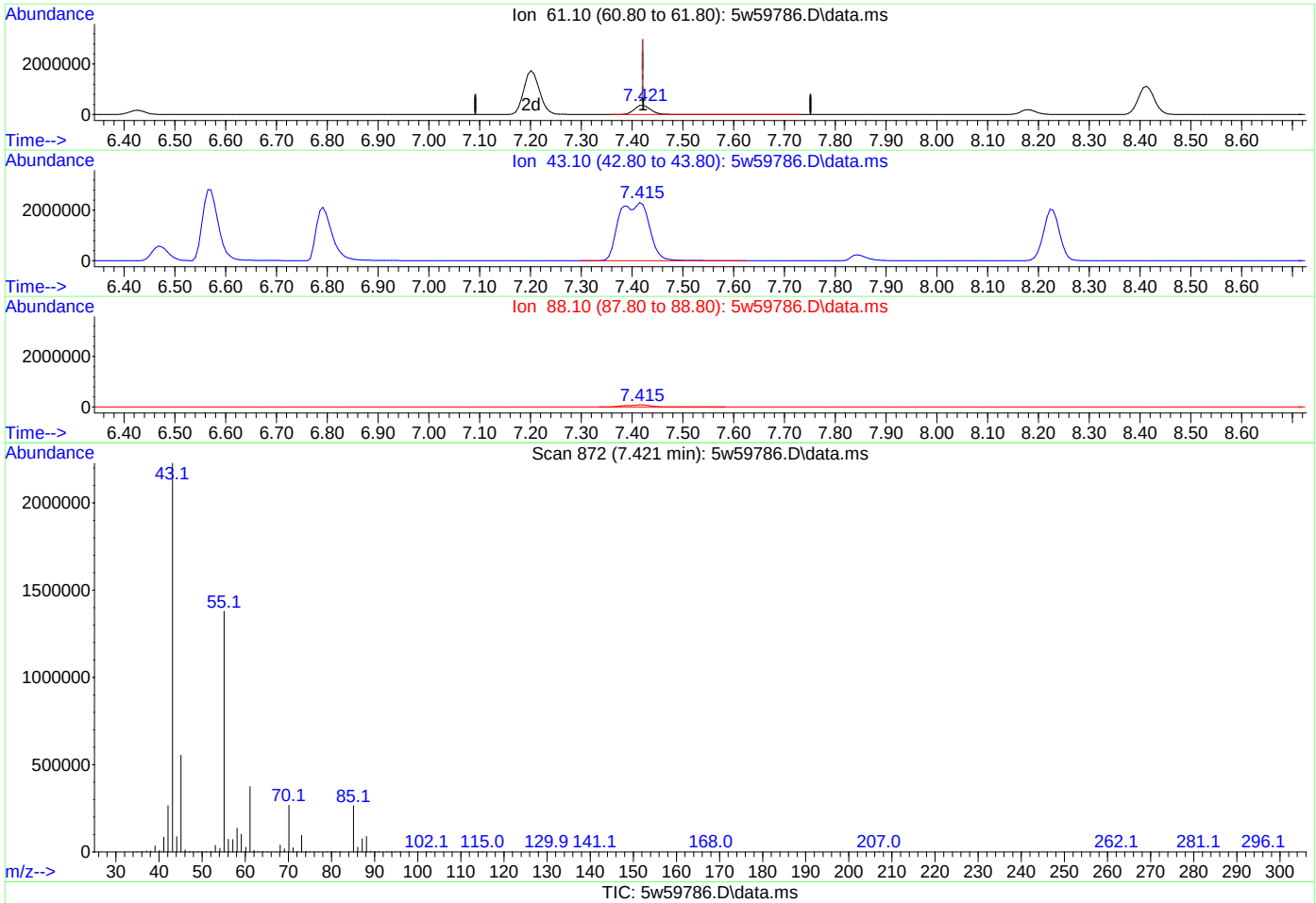
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.67
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV

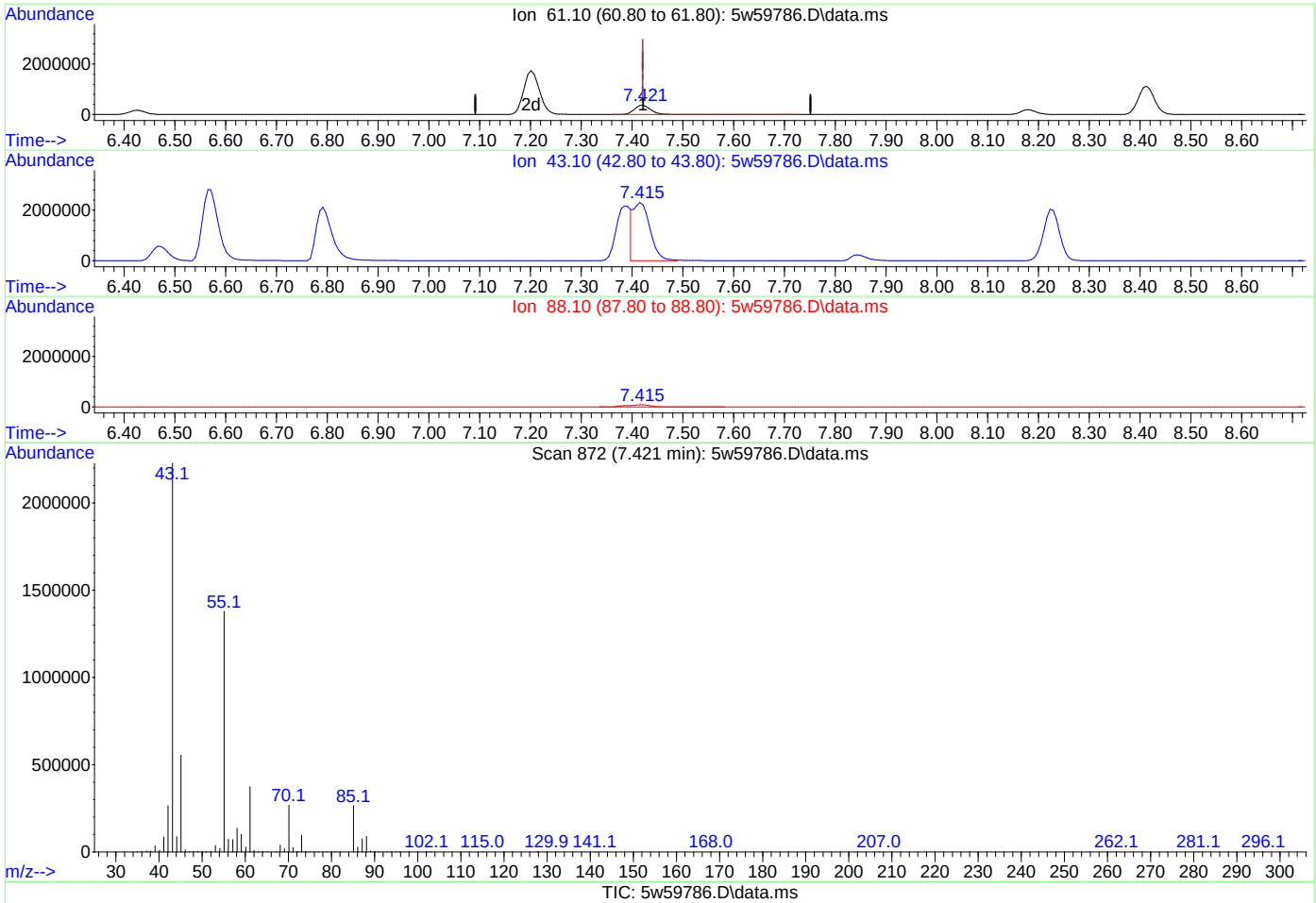
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1136.24#
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV m

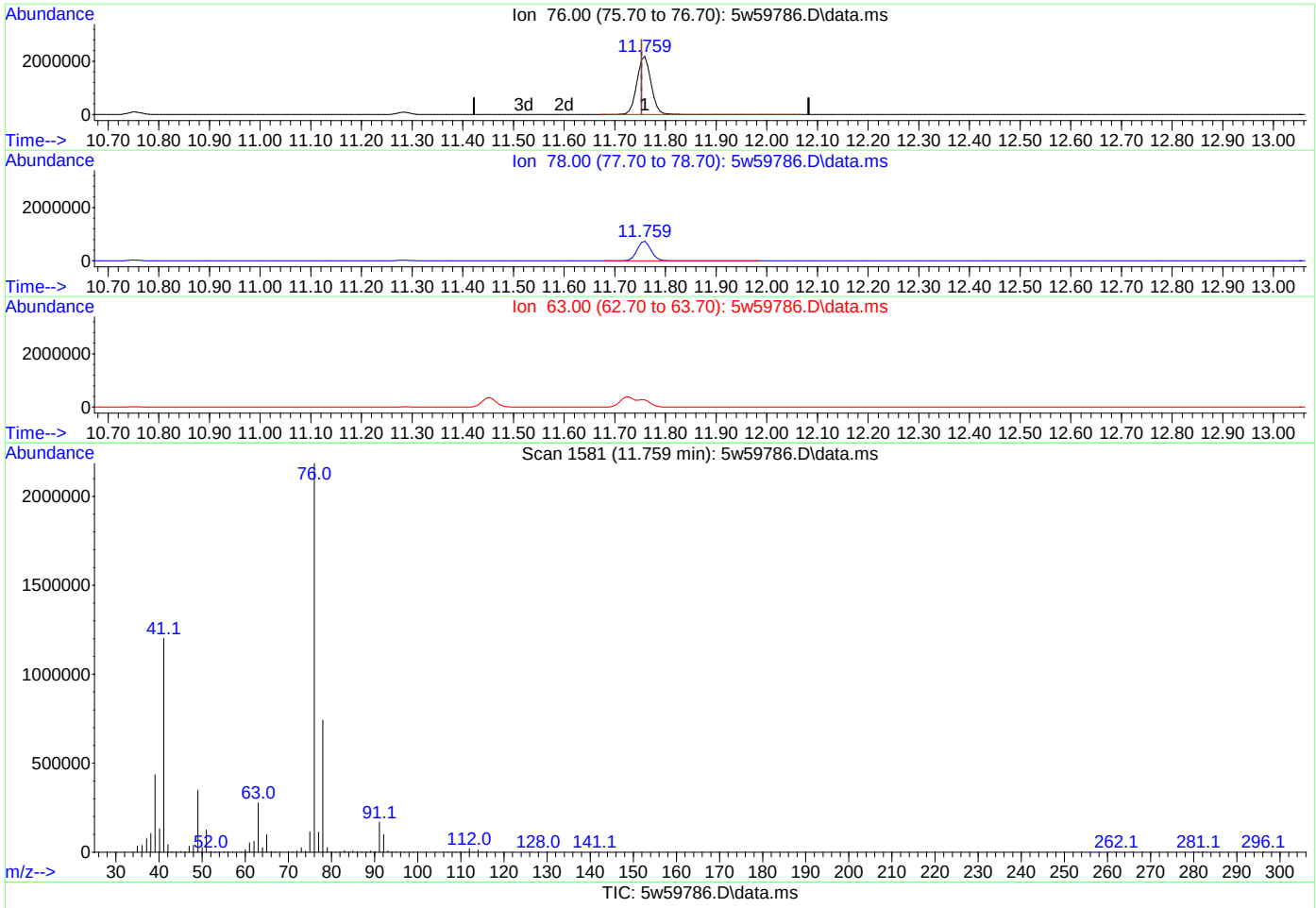
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	618.03
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV

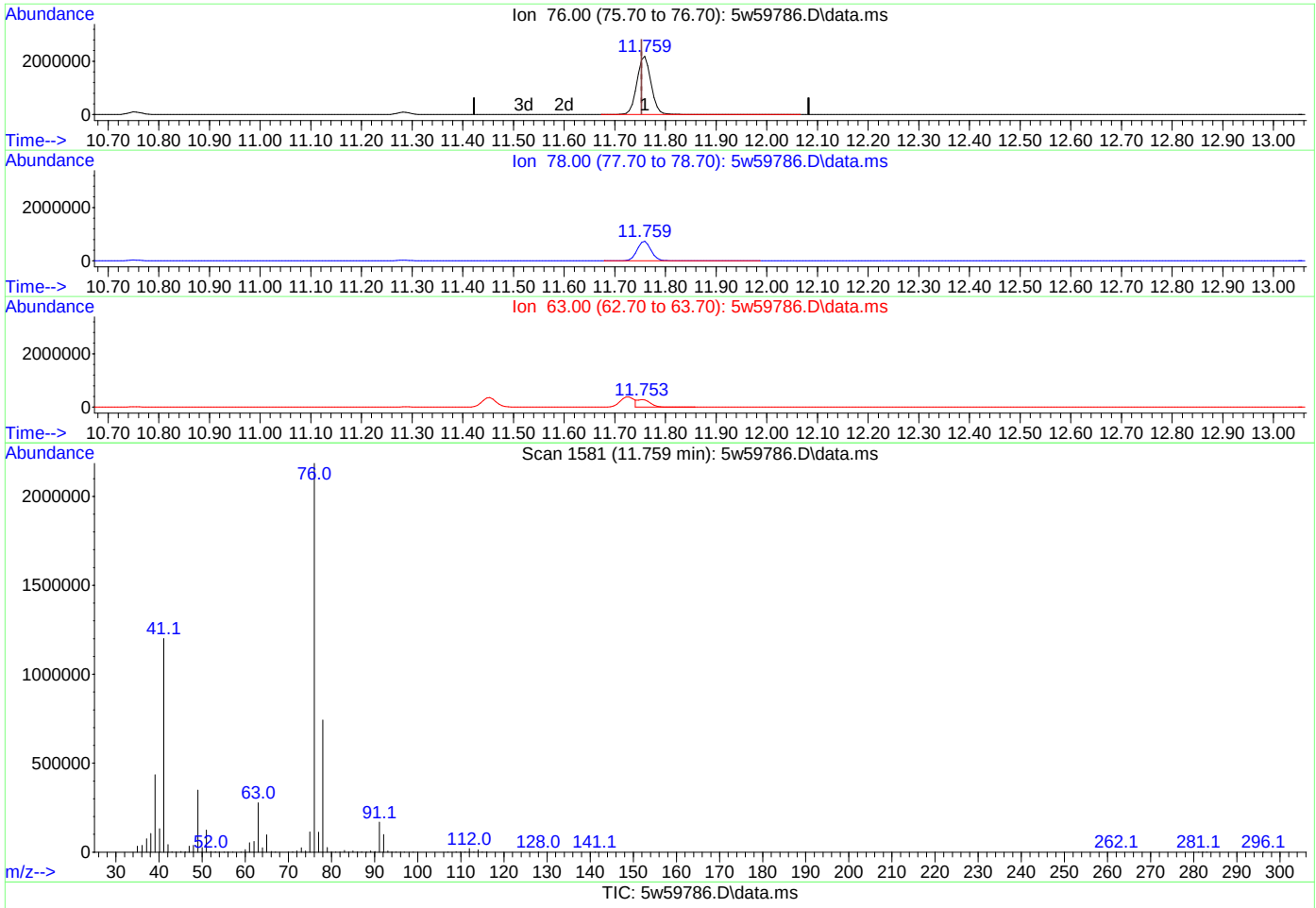
response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV m

response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	11.61
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.366	128	467614	10.00	PPBV		0.01
51) 1,4-DIFLUOROBENZENE	9.220	114	1973593	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1346242	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.366	128	467614	10.00	PPBV		0.01
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.167	95	1432127	8.79	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 87.90%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	581031	25.61	PPBV		100
3) FREON 152A	3.445	65	2109561	69.10	PPBV		94
4) CHLORODIFLUOROMETHANE	3.476	67	930907	63.03	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.506	116	4660403	63.22	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	7605378	57.48	PPBV		96
7) PROPYLENE	3.500	41	1977365	62.50	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	5527171	55.41	PPBV		98
9) FREON 114	3.733	85	6296072	53.88	PPBV		96
10) CHLOROMETHANE	3.665	52	706786	54.00	PPBV		96
11) VINYL CHLORIDE	3.818	62	2396129	54.50	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1434792	57.20	PPBV		98
13) n-BUTANE	3.947	43	2229721	56.04	PPBV		98
14) BROMOMETHANE	4.106	94	2666902	57.99	PPBV		100
15) CHLOROETHANE	4.228	64	1048912	54.16	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	5025383	54.94	PPBV		98
17) ACETONITRILE	4.479	41	1245621	52.74	PPBV		99
18) ACROLEIN	4.571	56	762905	54.68	PPBV		95
19) FREON 123	4.595	83	5407858m	53.17	PPBV		
20) FREON 123A	4.638	117	3495792	57.82	PPBV		92
21) TRICHLOROFLUOROMETHANE	4.797	101	6263951	56.50	PPBV		99
22) ISOPROPYL ALCOHOL	4.877	45	4774264	59.23	PPBV		99
23) ACETONE	4.669	58	909361	55.35	PPBV		98
24) PENTANE	5.072	42	2631624	64.00	PPBV		96
25) IODOMETHANE	5.256	142	9114140	64.39	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2972573	64.07	PPBV		93
27) CARBON DISULFIDE	5.672	76	7844304	61.73	PPBV		97
28) ETHANOL	4.320	45	782956	51.79	PPBV		100
29) BROMOETHENE	4.479	106	2638149	57.30	PPBV		100
30) ACRYLONITRILE	5.048	52	1983513	68.16	PPBV		99
31) METHYLENE CHLORIDE	5.427	84	2586702	62.87	PPBV		95
32) 3-CHLOROPROPENE	5.525	76	1356999	64.21	PPBV	#	88
33) FREON 113	5.641	151	5255099	62.99	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	3195584	65.25	PPBV		96
35) TERTIARY BUTYL ALCOHOL	5.372	59	4989539	52.68	PPBV		98
36) METHYL TERTIARY BUTYL ...	6.473	73	7764187	63.24	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1279396	65.77	PPBV		96
38) HEXANE	7.385	57	4098725	58.34	PPBV		91
39) VINYL ACETATE	6.571	86	595335	69.16	PPBV	#	73
40) 1,1-DICHLOROETHANE	6.430	63	5580661	63.37	PPBV		98
41) METHYL ETHYL KETONE	6.791	72	1403846	68.19	PPBV	#	81
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3406006	66.53	PPBV		96
43) DIISOPROPYL ETHER	7.391	59	1304563	59.80	PPBV	#	72
44) ETHYL ACETATE	7.422	61	1009100m	62.87	PPBV		
45) METHYL ACRYLATE	7.409	55	5147084	59.04	PPBV		96
46) CHLOROFORM	7.489	83	6393103	62.45	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.229	57	5181431	62.87	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.413	97	6744194	62.23	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	7391895	61.67	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	4560398	62.85	PPBV		98
52)	BENZENE	8.859	78	8949189	67.41	PPBV		99
53)	CYCLOHEXANE	9.110	84	3590293	67.59	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1853301	67.86	PPBV		90
55)	TRICHLOROETHYLENE	9.893	95	4247994	61.05	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	3414269	61.24	PPBV		99
57)	DIBROMOMETHANE	9.642	174	4863346	64.66	PPBV		97
58)	ETHYL ACRYLATE	9.685	55	6797917	63.67	PPBV		98
59)	BROMODICHLOROMETHANE	9.862	83	7417663	61.30	PPBV		97
60)	2,2,4-TRIMETHYLPENTANE	9.924	57	11658719	56.13	PPBV		96
61)	1,4-DIOXANE	9.893	88	1844331	60.00	PPBV	#	1
62)	HEPTANE	10.193	43	4474034	63.31	PPBV		93
63)	METHYL METHACRYLATE	10.113	69	3101307	67.79	PPBV		94
64)	METHYL ISOBUTYL KETONE	10.792	58	2975343	66.58	PPBV		88
65)	cis-1,3-DICHLOROPROPENE	10.756	75	6183357	66.43	PPBV		90
66)	TOLUENE	11.728	92	6766589	65.67	PPBV		93
67)	1,3-DICHLOROPROPANE	11.759	76	5183507m	63.52	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	5535715	63.59	PPBV		93
69)	1,1,2-TRICHLOROETHANE	11.453	83	3736885	66.35	PPBV		100
71)	2-HEXANONE	12.010	58	4158676	54.00	PPBV		87
72)	ETHYL METHACRYLATE	12.034	69	5321053	53.39	PPBV		89
73)	TETRACHLOROETHYLENE	12.878	164	5112644	56.17	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.157	129	8396348	52.38	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	7189005	57.04	PPBV		100
76)	OCTANE	12.750	43	6099138	51.61	PPBV		89
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	5539677	54.07	PPBV		100
78)	CHLOROBENZENE	13.594	112	8685700	52.99	PPBV		98
79)	ETHYLBENZENE	13.992	91	13293280	52.78	PPBV		93
80)	m,p-XYLENE	14.194	106	10660694	104.01	PPBV		86
81)	o-XYLENE	14.689	106	4828440	49.93	PPBV		93
82)	STYRENE	14.579	104	8801086	56.42	PPBV		98
83)	NONANE	14.940	43	5544485	46.77	PPBV		89
84)	BROMOFORM	14.261	173	8954982	53.58	PPBV		97
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	7680268	46.70	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	6463476	53.62	PPBV		96
88)	ISOPROPYLBENZENE	15.307	105	13782072	47.61	PPBV		93
89)	BROMOBENZENE	15.387	77	7438070	50.72	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	4362530	53.10	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	4269312	52.74	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	13388380	48.02	PPBV		91
93)	1,3,5-TRIMETHYLBENZENE	16.047	105	11253685	47.79	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.200	118	6738901	50.76	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	2429034	46.98	PPBV	#	85
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	9912721	42.68	PPBV		96
97)	m-DICHLOROBENZENE	16.592	146	8350505	44.49	PPBV		97
98)	BENZYL CHLORIDE	16.580	91	10182019	42.40	PPBV		95
99)	p-DICHLOROBENZENE	16.659	146	9434738	51.05	PPBV		96
100)	sec-BUTYLBENZENE	16.702	134	3389691	52.25	PPBV	#	63
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9964483	41.33	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	3209884	42.88	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	9264152	51.54	PPBV		96
104)	n-BUTYLBENZENE	17.271	134	4068110	53.04	PPBV	#	67
105)	HEXACHLOROETHANE	17.614	117	5943910	48.19	PPBV		95
106)	HEXACHLOROBUTADIENE	18.972	225	6941797	42.04	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	8668660	50.18	PPBV		98
108)	NAPHTHALENE	18.666	128	15644412	41.73	PPBV		88
110)	TVHC as equiv Pentane	5.072	TIC	17678397	64.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

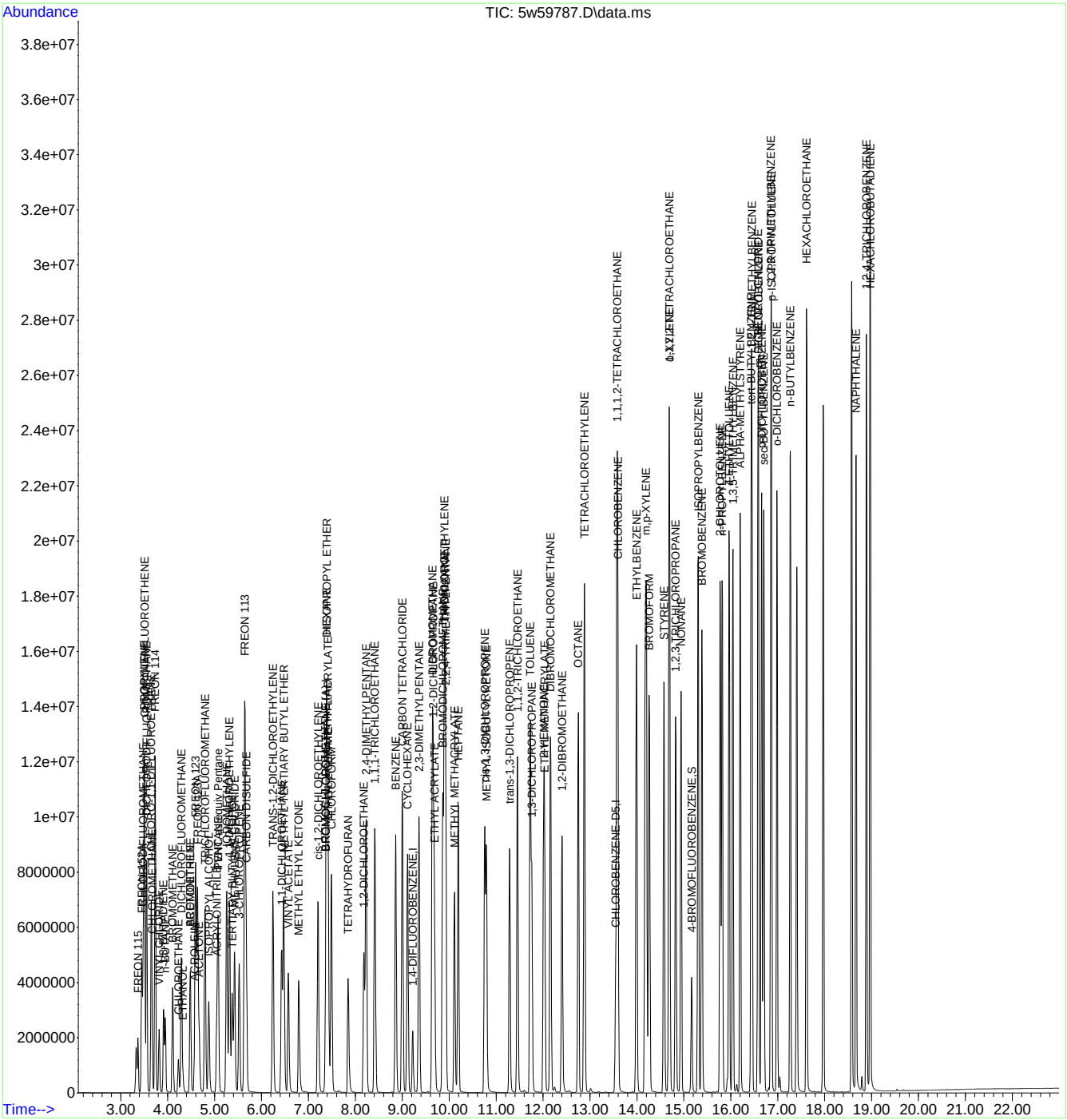
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

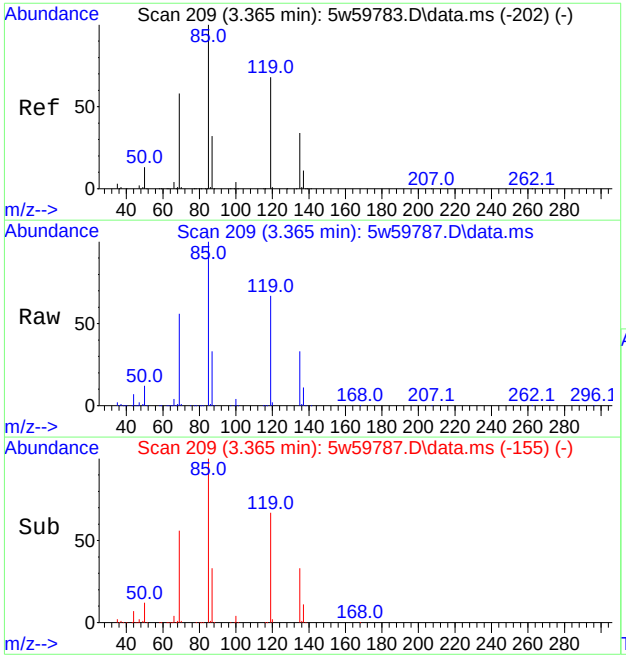
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

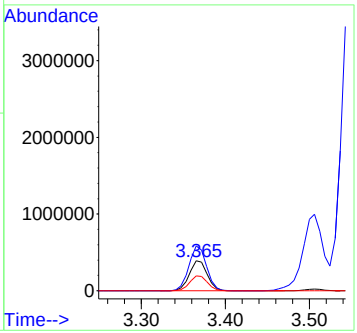


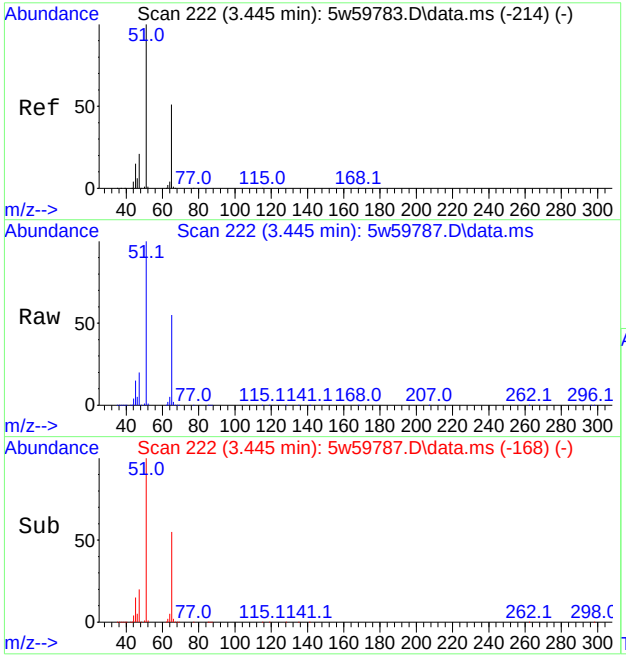


#2
FREON 115
Concen: 25.61 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:119 Resp: 581031

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.1	20.6	80.6

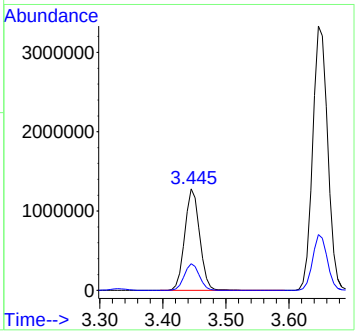


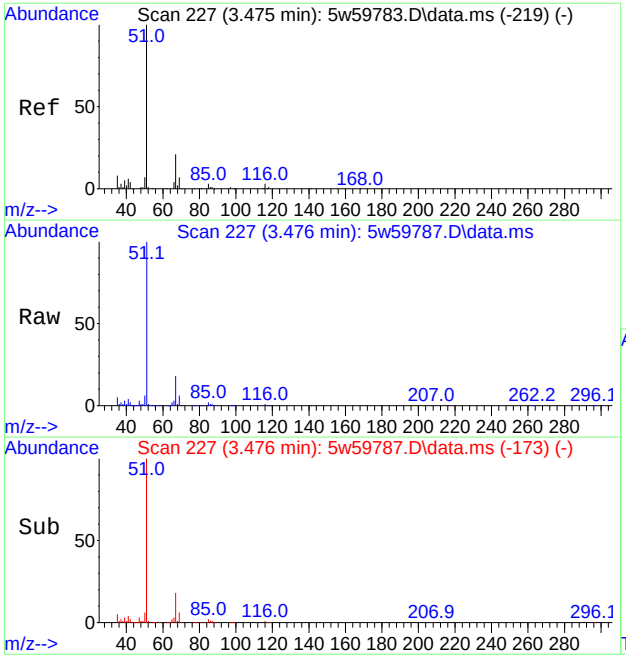


#3
FREON 152A
Concen: 69.10 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 2109561

Ion	Ratio	Lower	Upper
65	100		
45	26.7	0.0	60.0

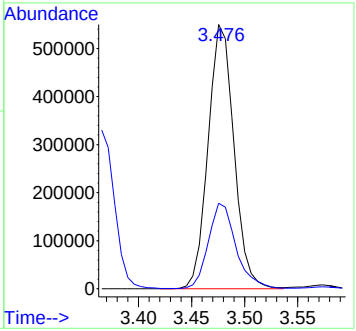


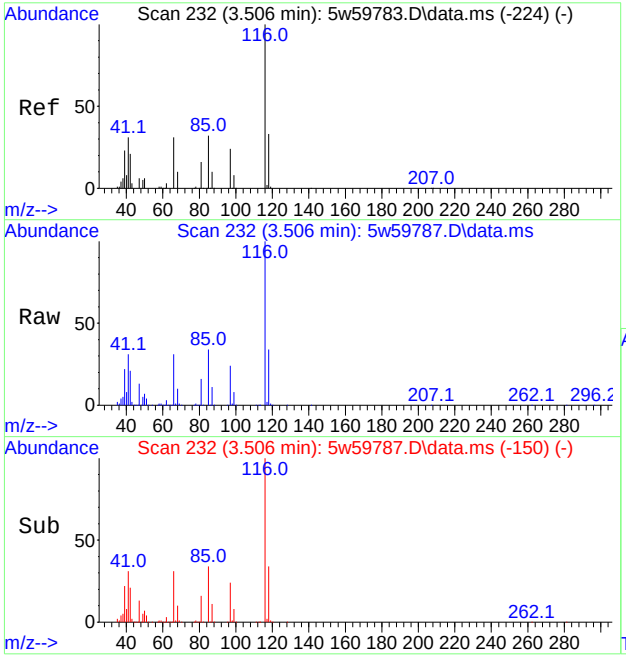


#4
CHLORODIFLUOROMETHANE
Concen: 63.03 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 930907

Ion	Ratio	Lower	Upper
67	100		
69	32.3	1.0	61.0

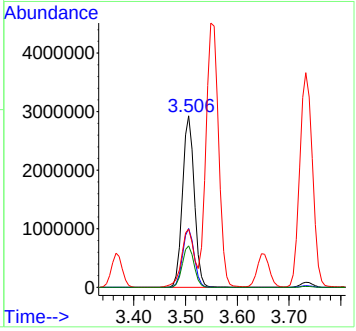


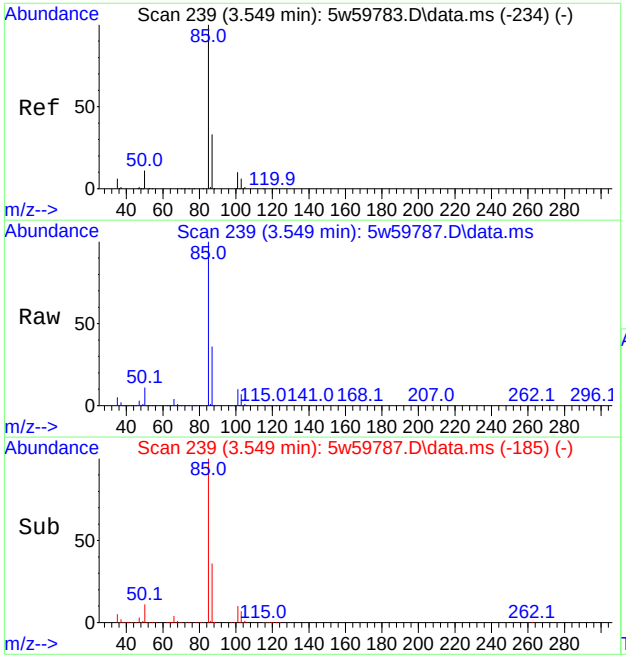


#5
CHLOROTRIFLUOROETHENE
Concen: 63.22 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:116 Resp: 4660403

Ion	Ratio	Lower	Upper
116	100		
118	33.9	22.9	42.5
85	36.8	23.7	44.1
97	24.2	17.0	31.6

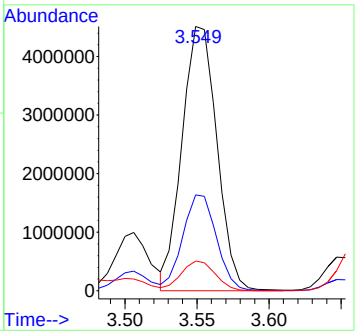


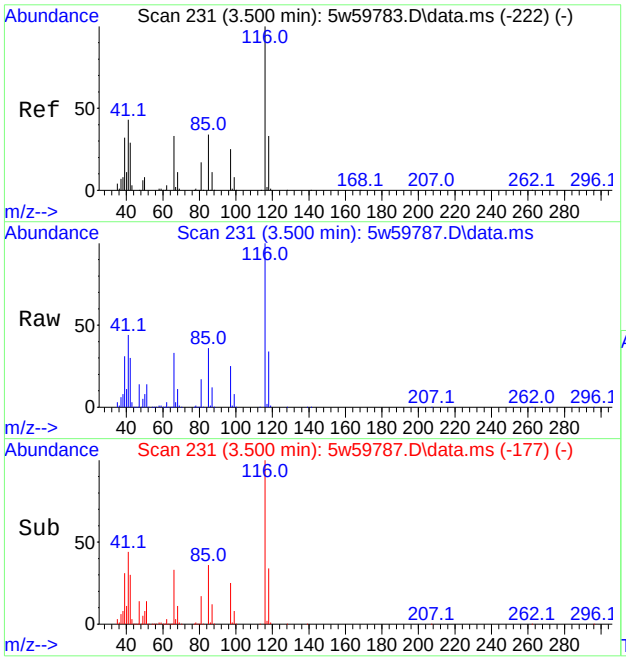


#6
DICHLORODIFLUOROMETHANE
Concen: 57.48 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 7605378

Ion	Ratio	Lower	Upper
85	100		
87	35.1	2.5	62.5
50	11.1	0.0	41.7

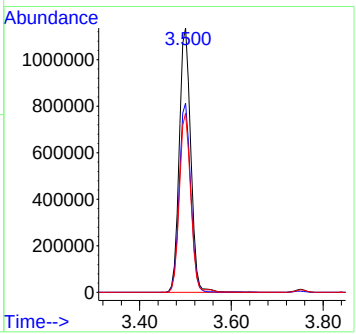


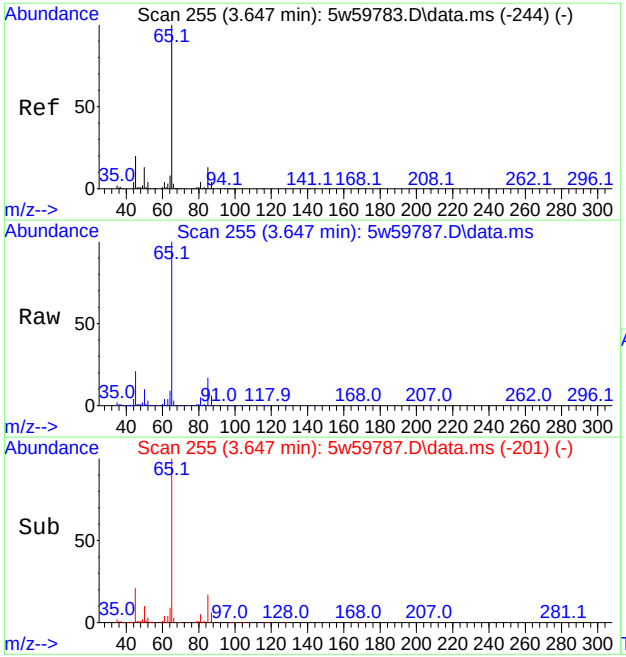


#7
PROPYLENE
Concen: 62.50 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1977365

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.3	36.3	96.3

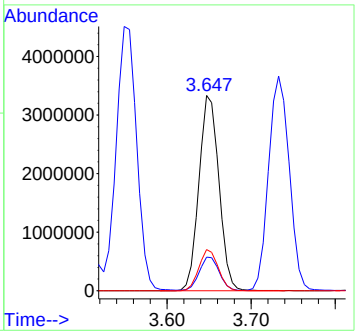


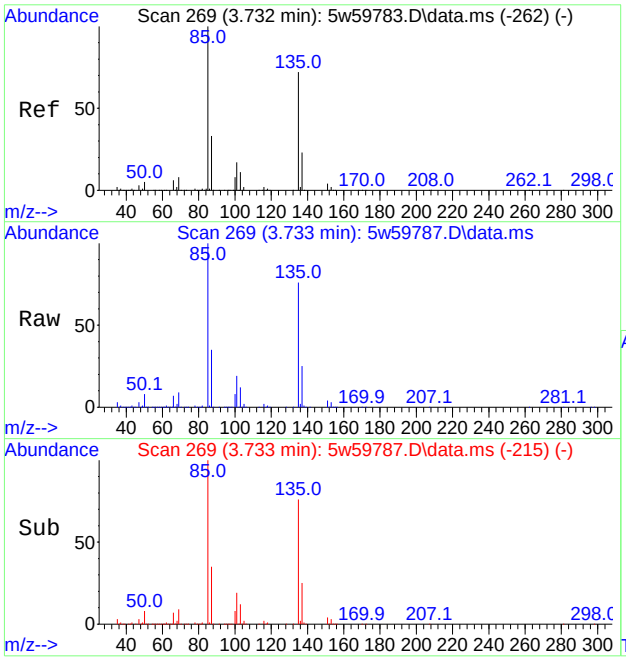


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 55.41 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 5527171

Ion	Ratio	Lower	Upper
65	100		
85	17.3	11.5	21.3
45	20.6	14.0	26.0

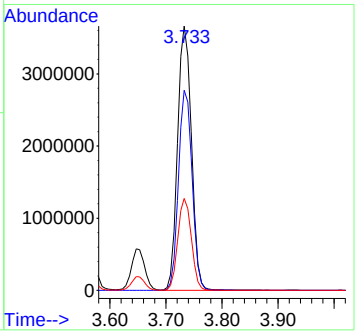


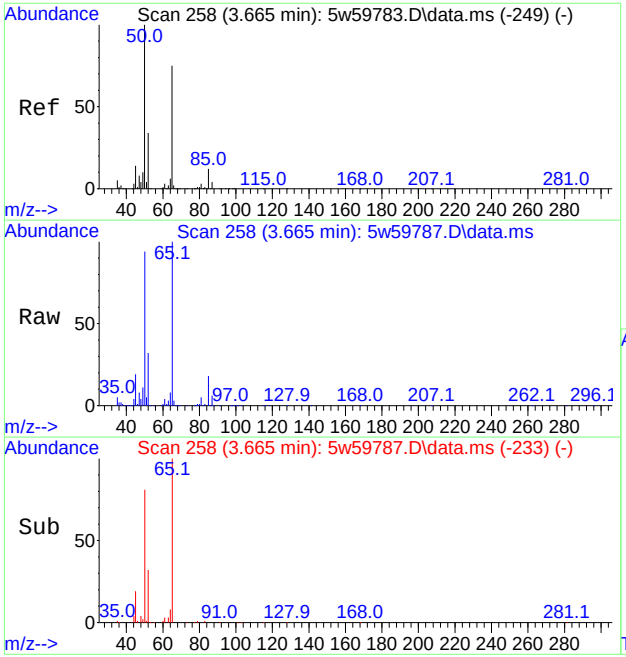


#9
FREON 114
Concen: 53.88 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 6296072

Ion	Ratio	Lower	Upper
85	100		
135	74.5	40.5	100.5
87	34.1	3.0	63.0

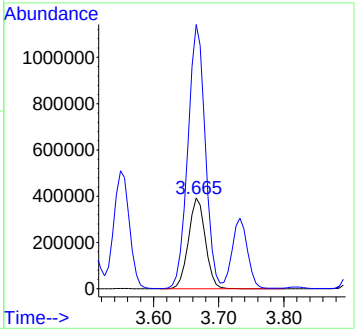


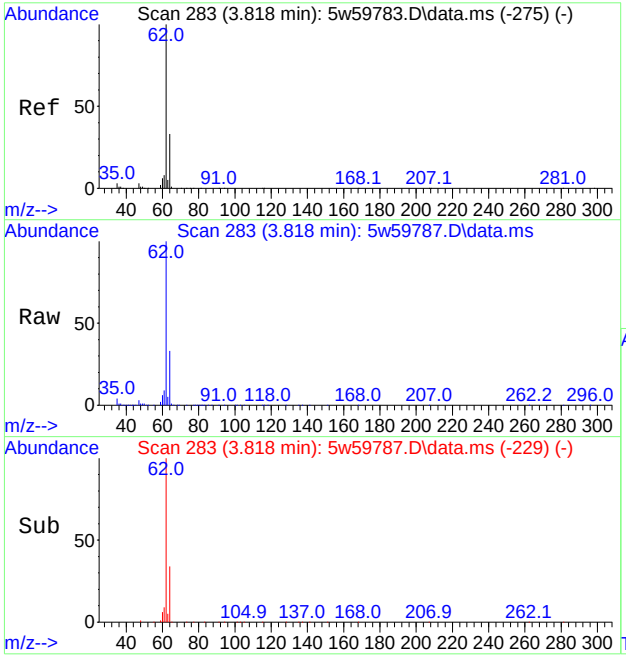


#10
CHLOROMETHANE
Concen: 54.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 706786

Ion	Ratio	Lower	Upper
52	100		
50	290.3	267.9	327.9

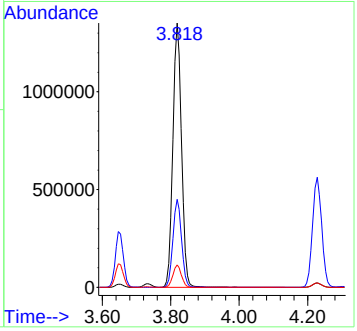


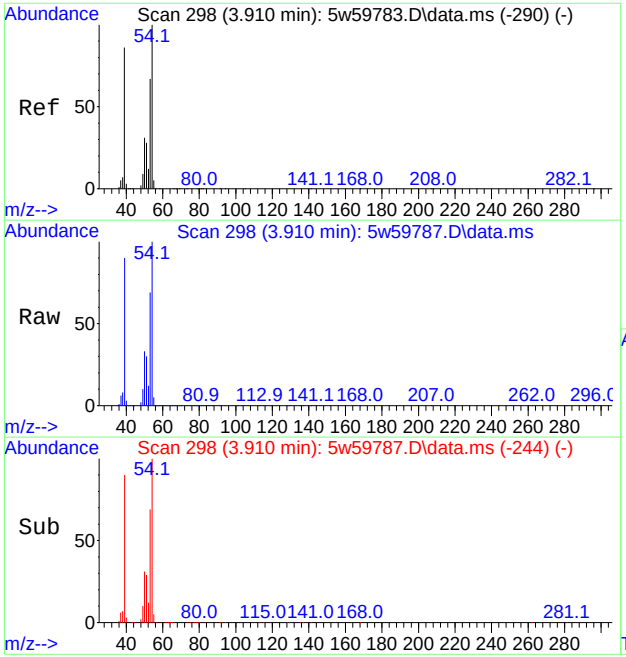


#11
VINYL CHLORIDE
Concen: 54.50 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 2396129

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

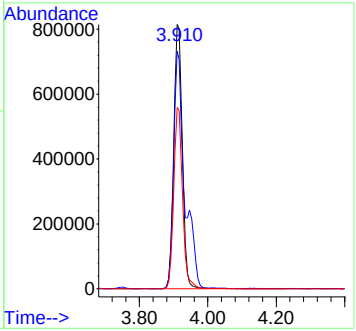


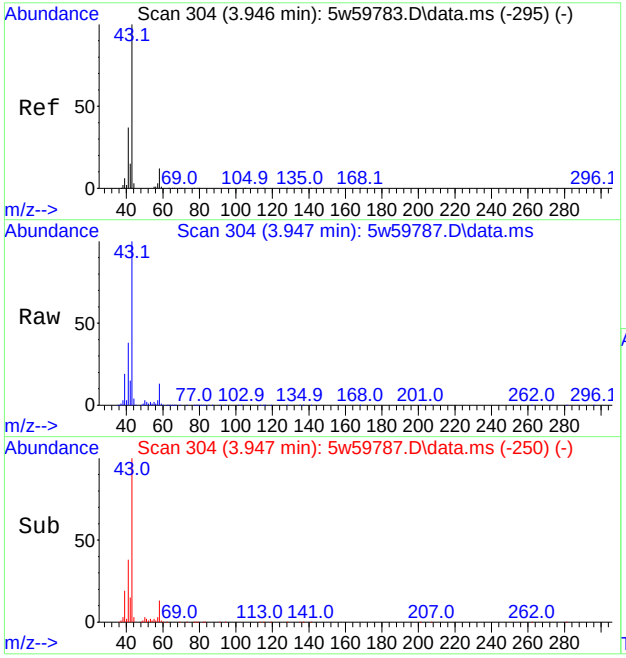


#12
1,3-BUTADIENE
Concen: 57.20 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 54 Resp: 1434792

Ion	Ratio	Lower	Upper
54	100		
39	115.1	82.0	142.0
53	70.3	40.2	100.2

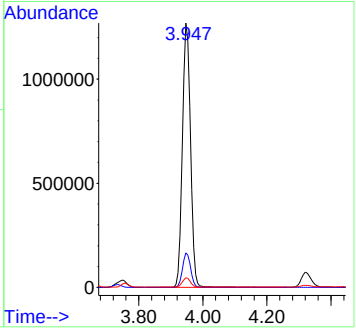


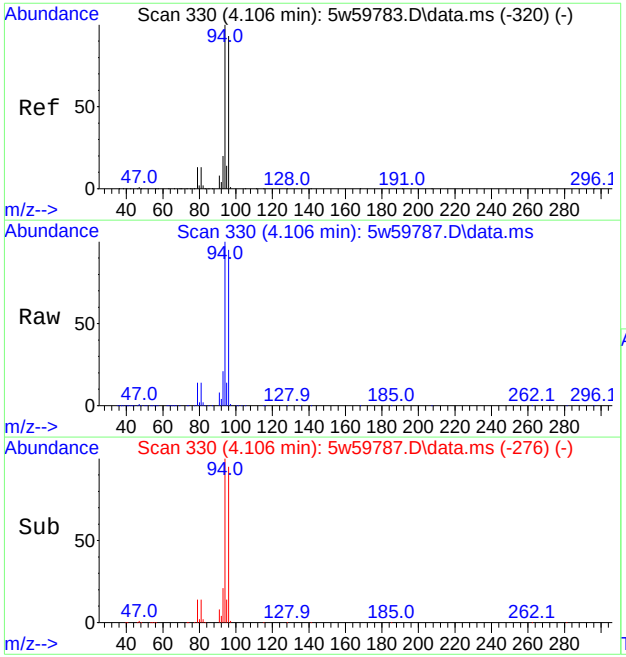


#13
n-BUTANE
Concen: 56.04 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 2229721

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.6	0.0	34.9

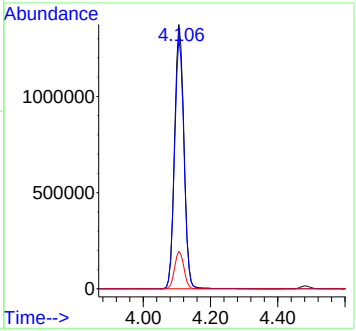


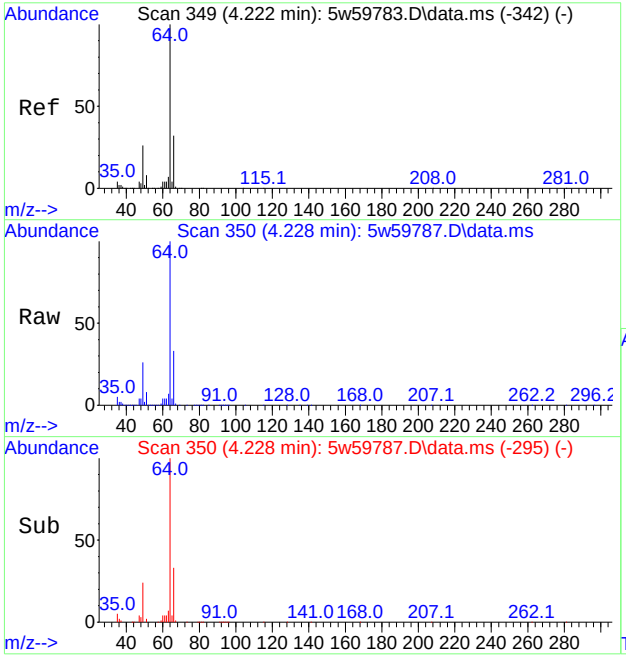


#14
BROMOMETHANE
Concen: 57.99 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 94 Resp: 2666902

Ion	Ratio	Lower	Upper
94	100		
96	94.9	65.3	125.3
95	14.2	0.0	44.1

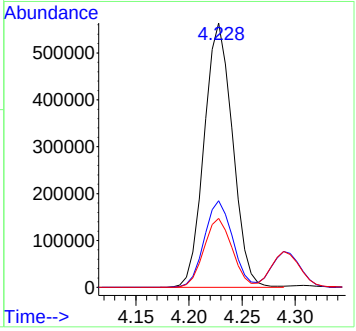


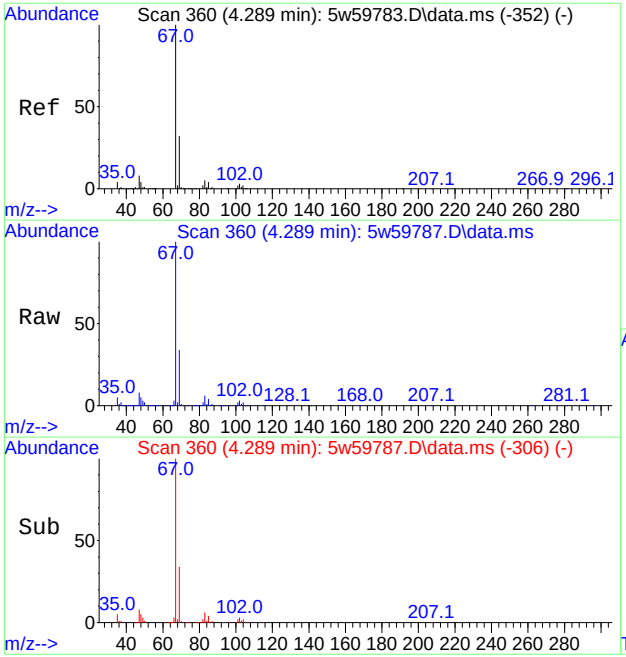


#15
CHLOROETHANE
Concen: 54.16 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 64 Resp: 1048912

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

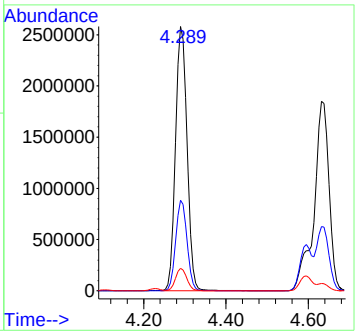


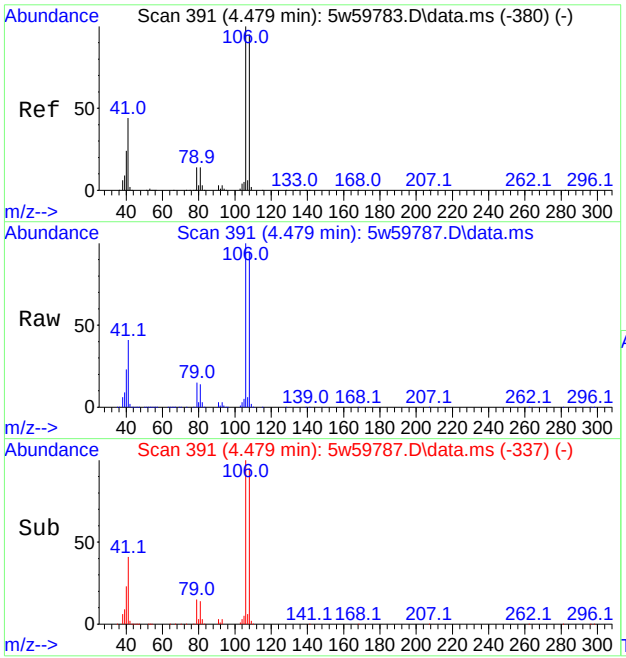


#16
DICHLOROFLUOROMETHANE
Concen: 54.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 5025383

Ion	Ratio	Lower	Upper
67	100		
69	33.7	22.7	42.3
47	8.4	5.6	10.4

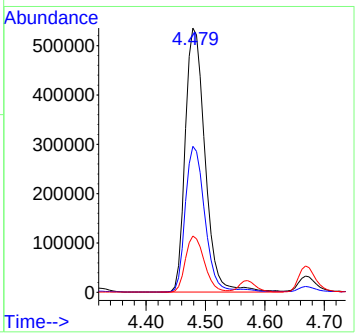


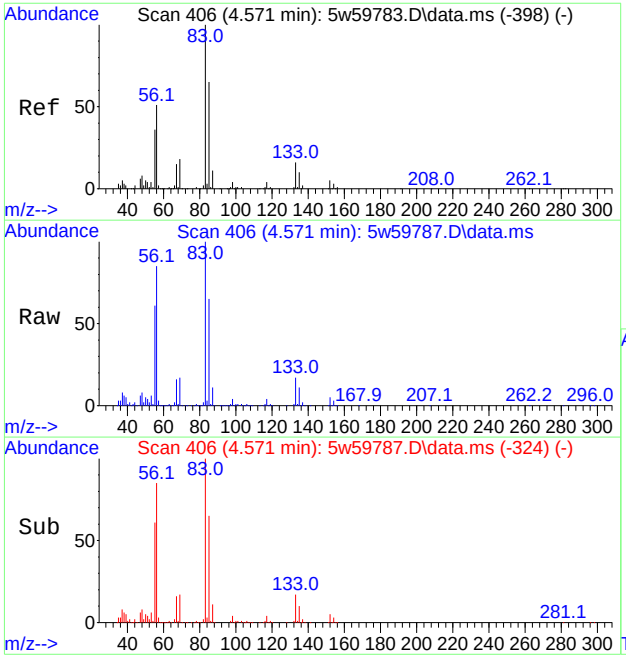


#17
ACETONITRILE
Concen: 52.74 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1245621

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.3	13.4	24.8

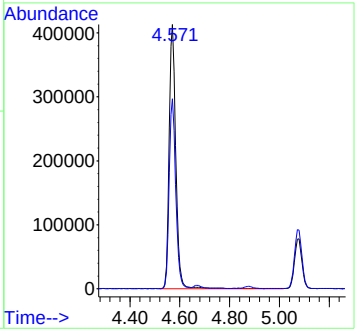


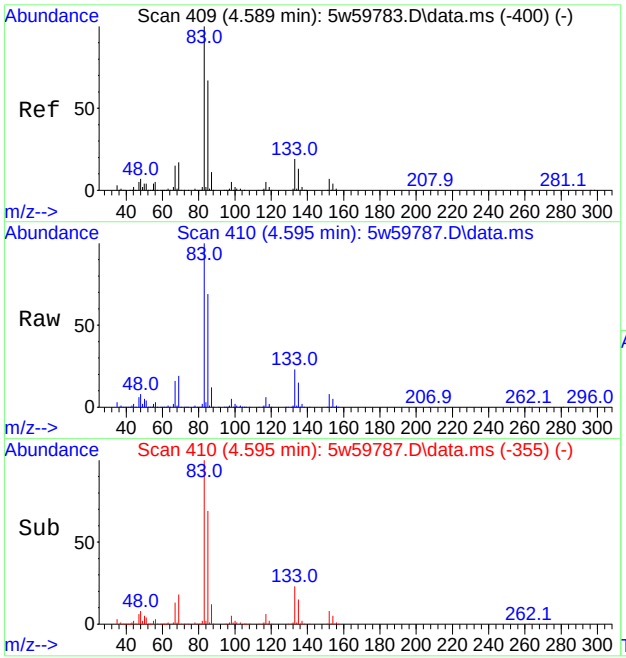


#18
ACROLEIN
Concen: 54.68 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 56 Resp: 762905

Ion	Ratio	Lower	Upper
56	100		
55	70.9	46.6	86.6

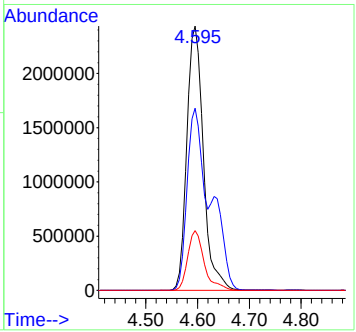


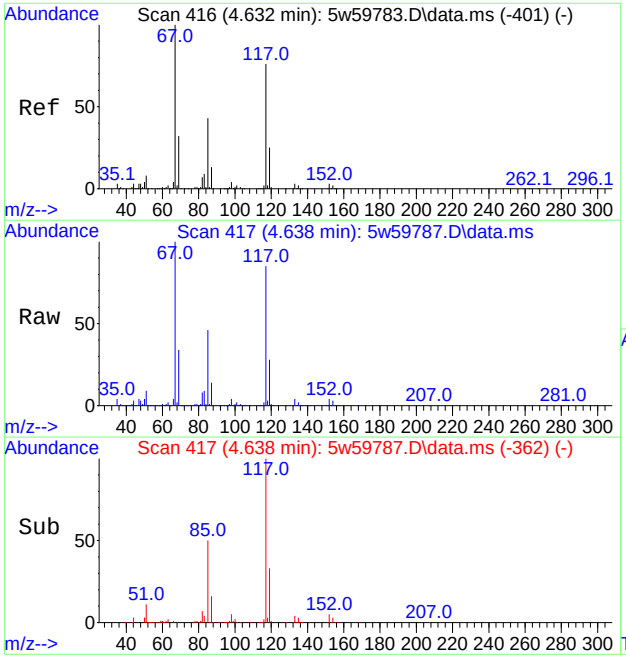


#19
FREON 123
Concen: 53.17 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 5407858

Ion	Ratio	Lower	Upper
83	100		
85	67.6	34.0	94.0
133	22.7	0.0	50.7

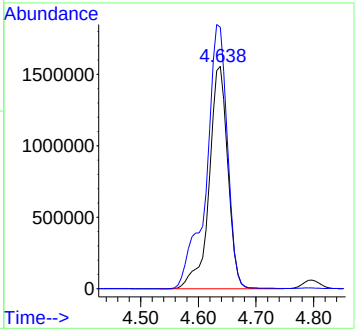


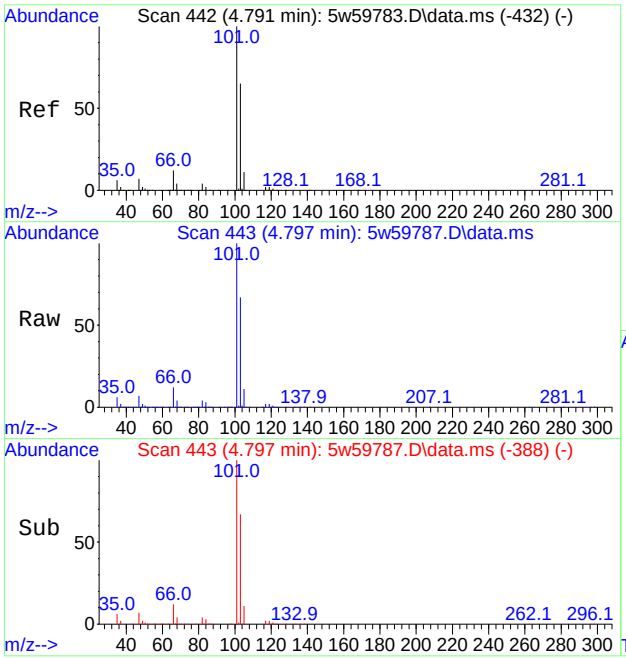


#20
FREON 123A
Concen: 57.82 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 3495792

Ion	Ratio	Lower	Upper
117	100		
67	134.2	114.6	174.6

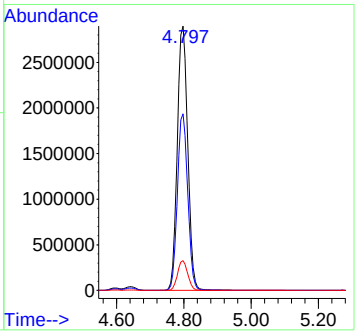


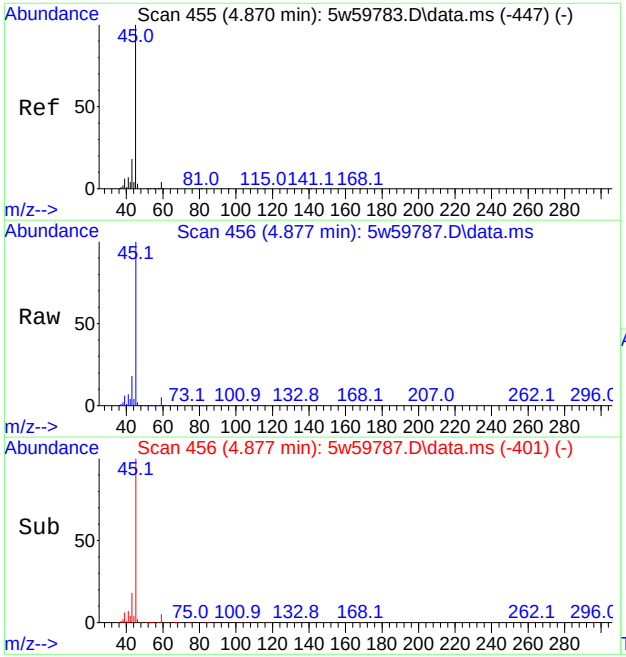


#21
TRICHLOROFLUOROMETHANE
Concen: 56.50 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:101 Resp: 6263951

Ion	Ratio	Lower	Upper
101	100		
103	66.2	35.0	95.0
105	11.1	0.0	40.7

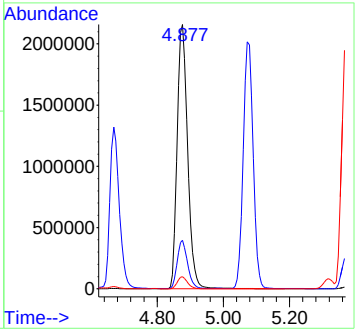


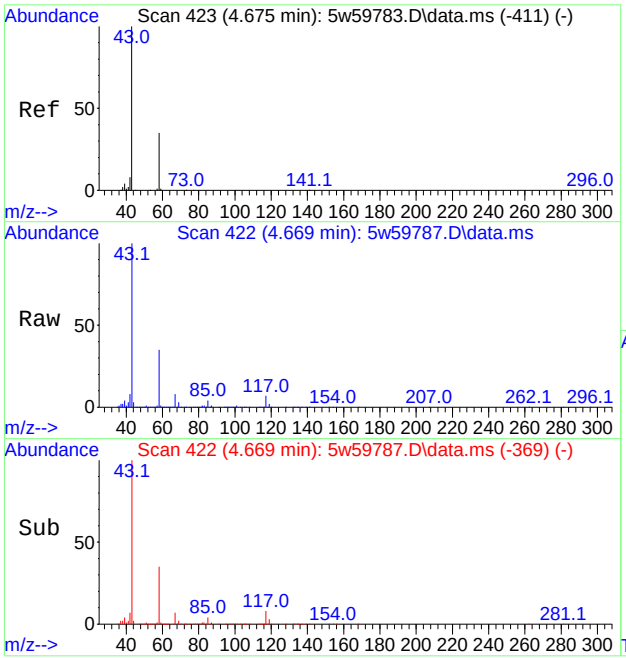


#22
ISOPROPYL ALCOHOL
Concen: 59.23 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 4774264

Ion	Ratio	Lower	Upper
45	100		
43	18.3	0.0	47.8
59	4.5	0.0	34.1

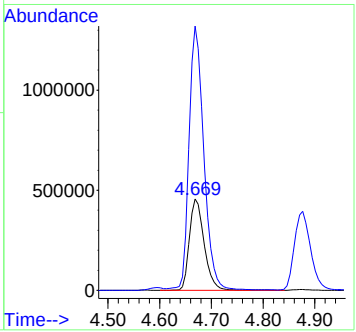


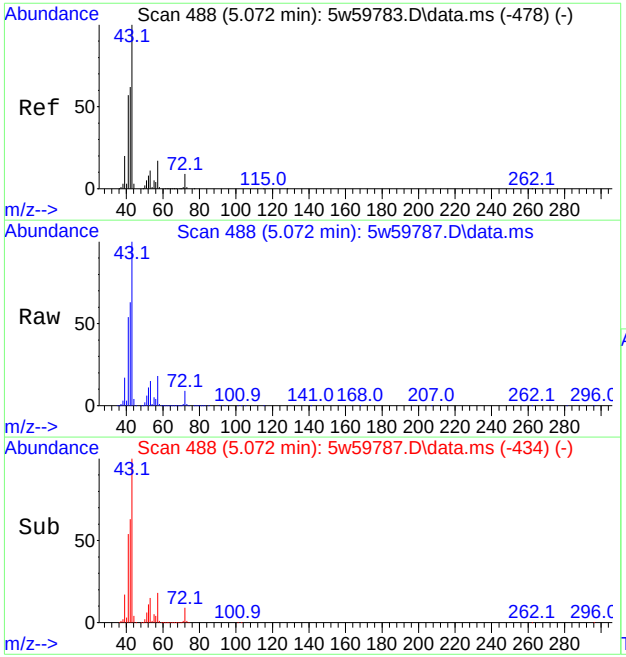


#23
ACETONE
Concen: 55.35 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 909361

Ion	Ratio	Lower	Upper
58	100		
43	286.4	252.3	312.3

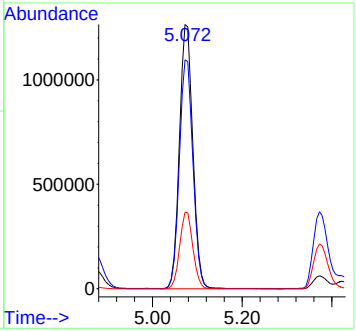


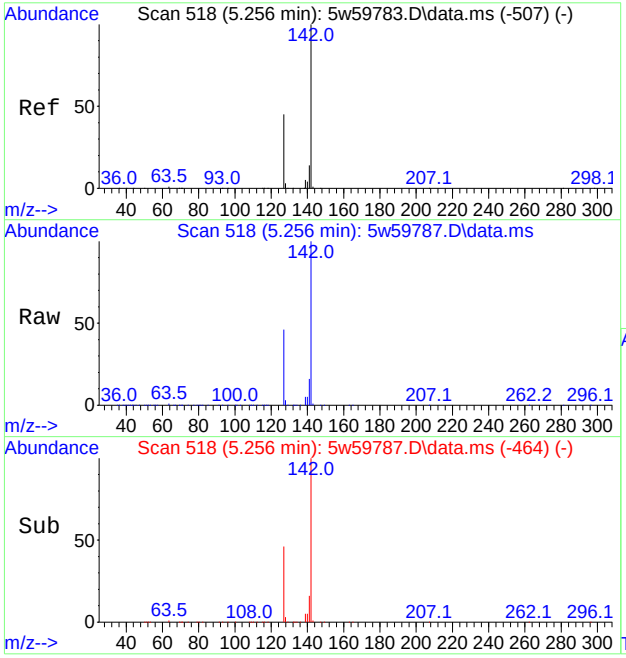


#24
PENTANE
Concen: 64.00 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 42 Resp: 2631624

Ion	Ratio	Lower	Upper
42	100		
41	88.0	62.3	122.3
57	28.7	0.0	57.7

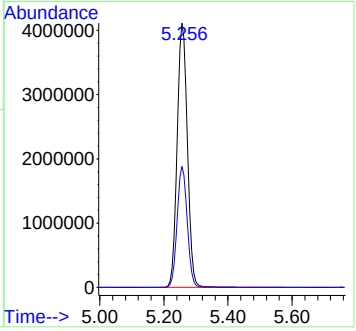


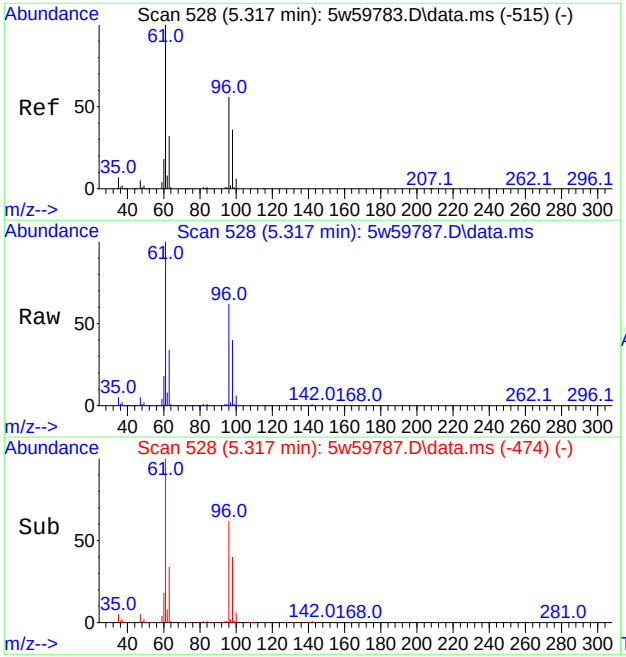


#25
IODOMETHANE
Concen: 64.39 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:142 Resp: 9114140

Ion	Ratio	Lower	Upper
142	100		
127	45.3	16.0	76.0

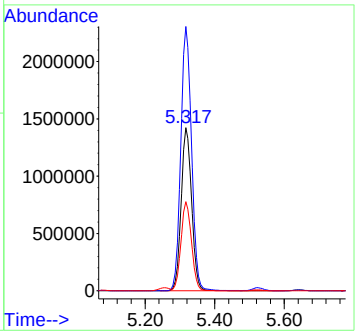


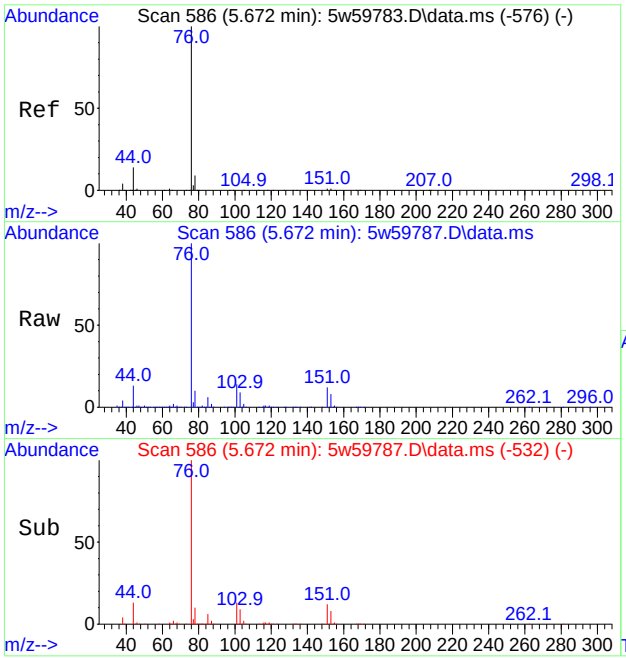


#26
1,1-DICHLOROETHYLENE
Concen: 64.07 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 2972573

Ion	Ratio	Lower	Upper
96	100		
61	166.3	148.5	208.5
63	55.0	27.4	87.4

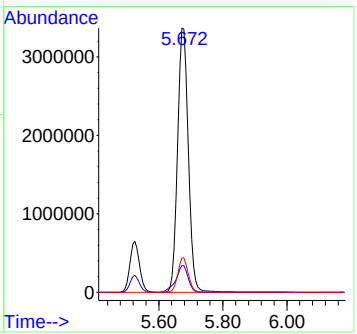


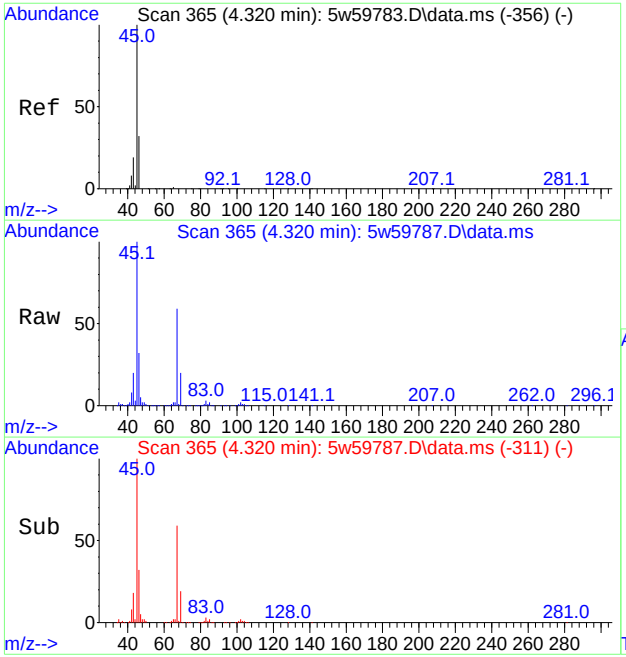


#27
CARBON DISULFIDE
Concen: 61.73 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 7844304

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	12.8	0.0	44.6

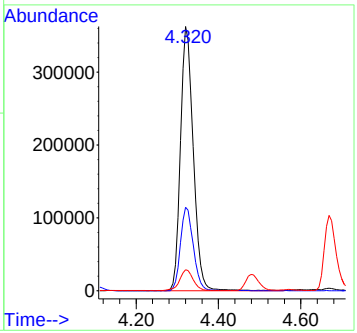


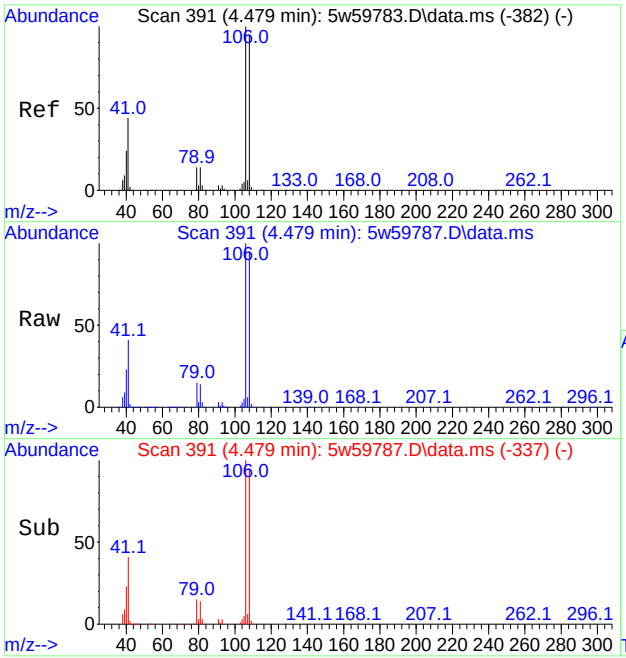


#28
ETHANOL
Concen: 51.79 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 782956

Ion	Ratio	Lower	Upper
45	100		
46	31.9	2.0	62.0
42	8.5	0.0	38.5

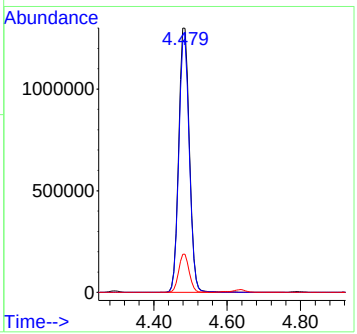


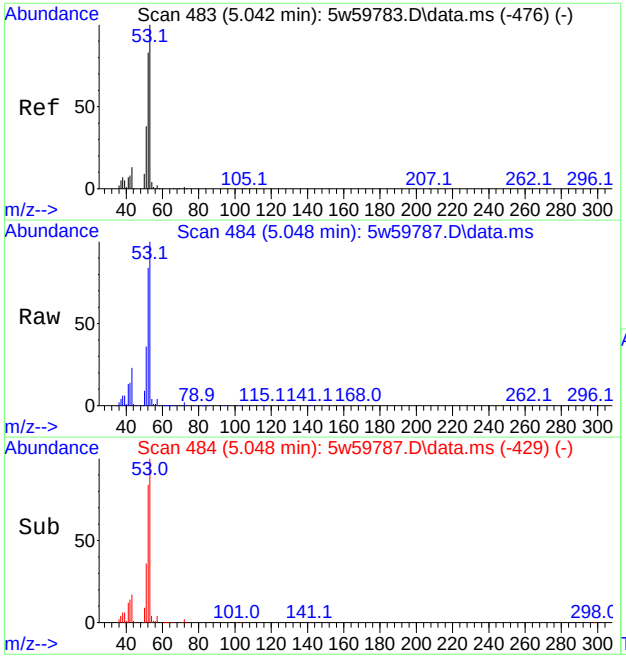


#29
BROMOETHENE
Concen: 57.30 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 2638149

Ion	Ratio	Lower	Upper
106	100		
108	95.2	65.6	125.6
81	14.3	0.0	43.9

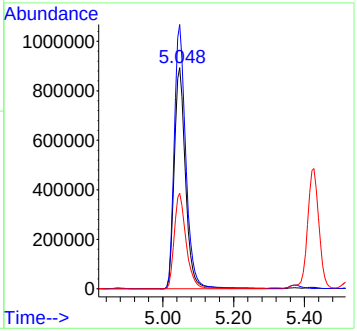


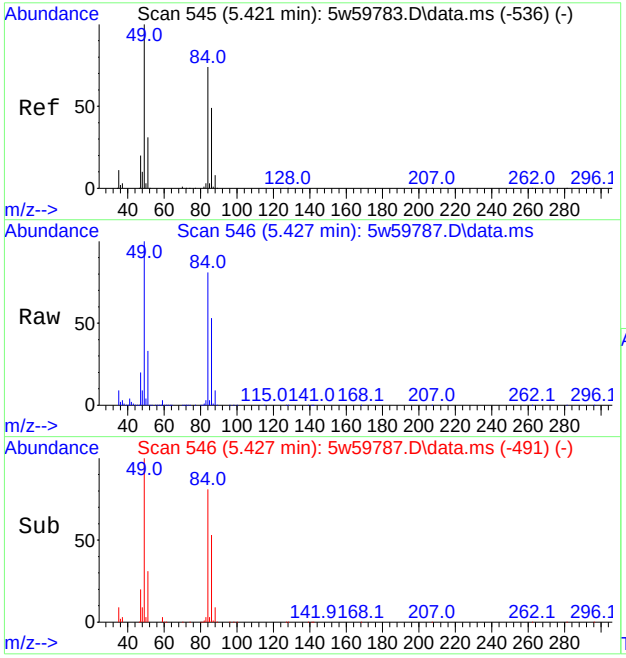


#30
ACRYLONITRILE
Concen: 68.16 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 1983513

Ion	Ratio	Lower	Upper
52	100		
53	121.8	85.8	159.4
51	45.1	32.3	60.1

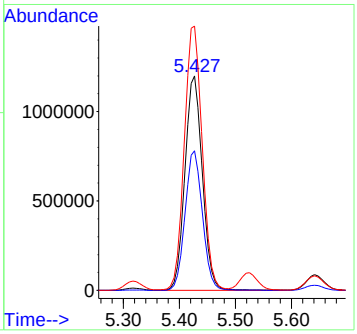


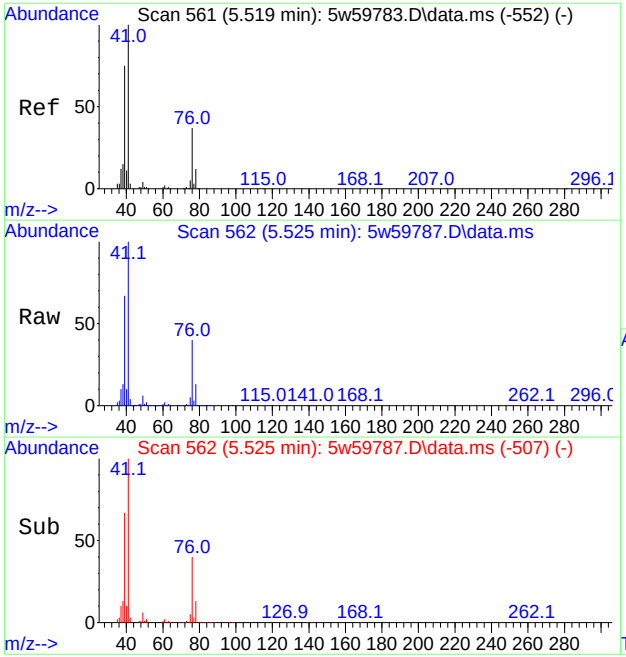


#31
METHYLENE CHLORIDE
Concen: 62.87 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 2586702

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	126.9	105.3	165.3

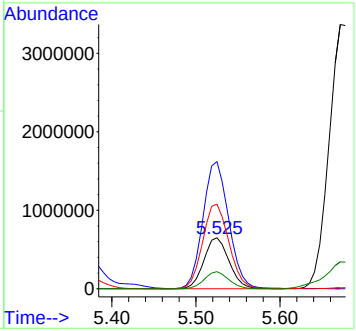


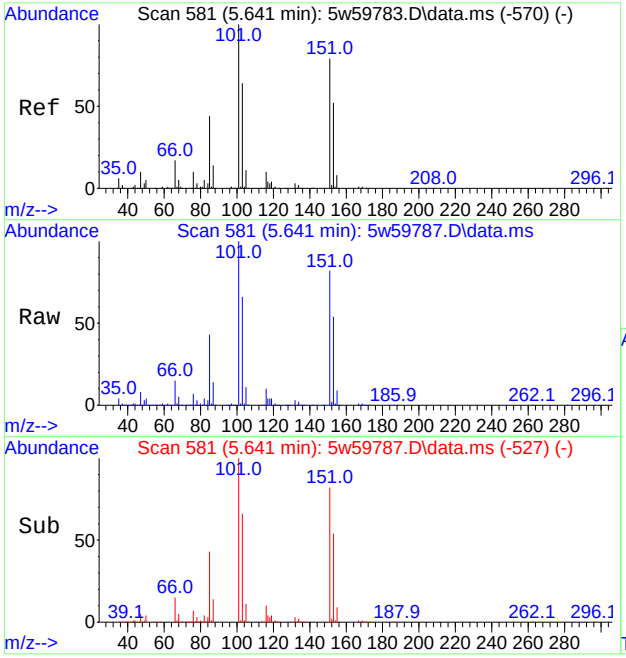


#32
3-CHLOROPROPENE
Concen: 64.21 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 1356999

Ion	Ratio	Lower	Upper
76	100		
41	255.7	240.8	300.8
39	172.9	173.6	233.6#
78	32.9	2.8	62.8

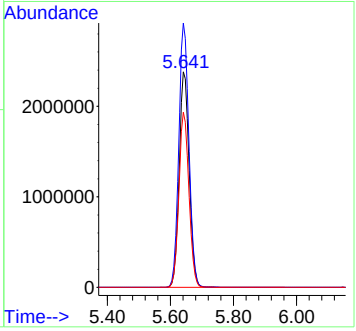


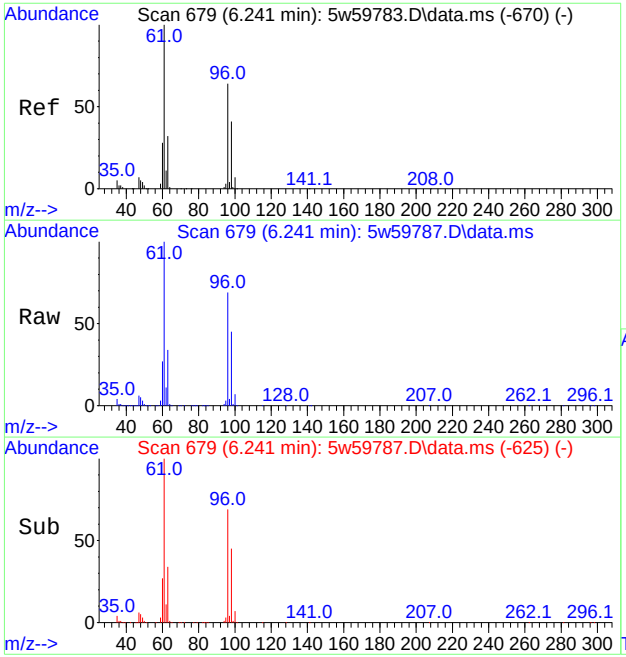


#33
FREON 113
Concen: 62.99 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:151 Resp: 5255099

Ion	Ratio	Lower	Upper
151	100		
101	124.0	97.5	157.5
103	81.5	52.5	112.5

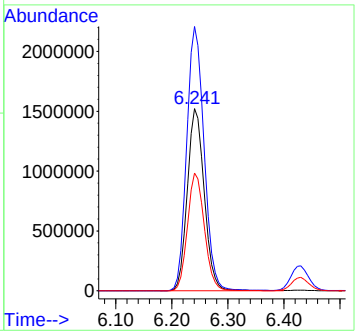


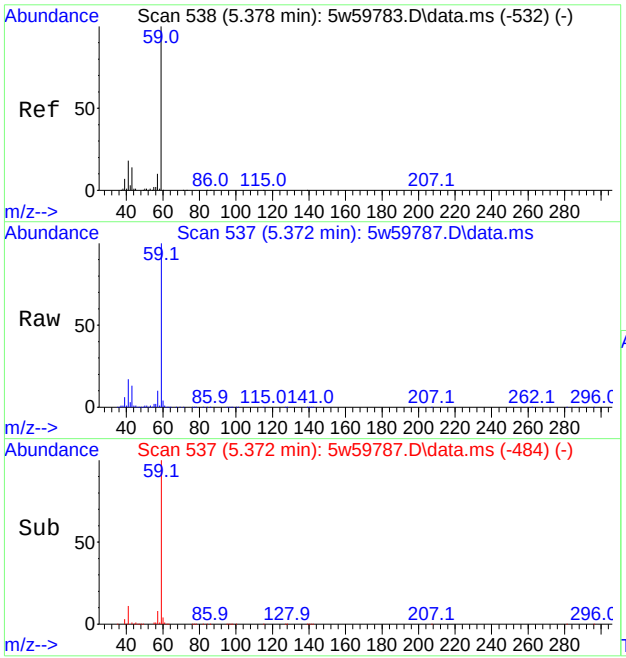


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 65.25 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3195584

Ion	Ratio	Lower	Upper
96	100		
61	148.6	126.4	186.4
98	64.5	34.1	94.1

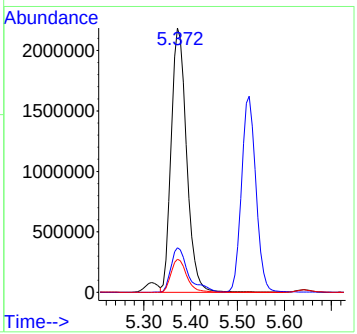


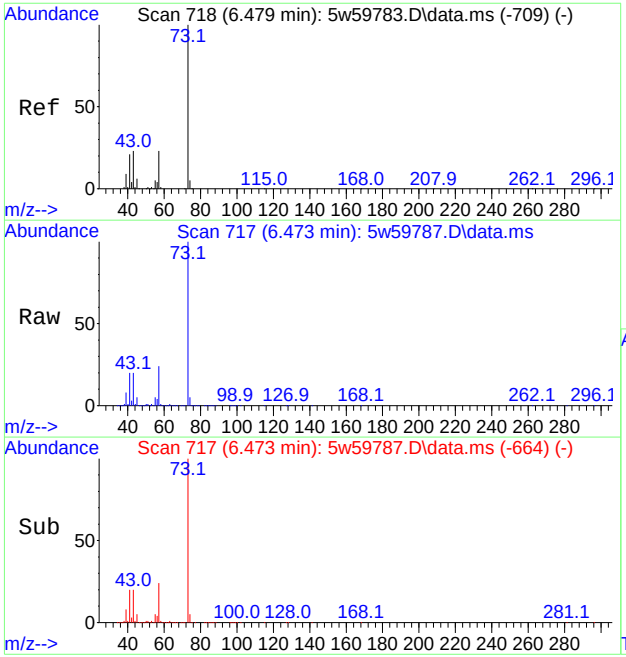


#35
TERTIARY BUTYL ALCOHOL
Concen: 52.68 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 4989539

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	12.7	0.0	44.1

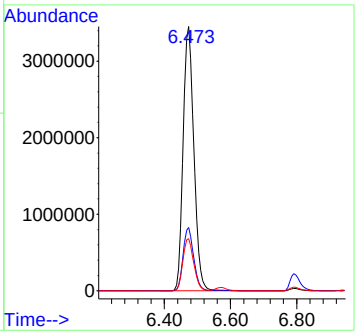


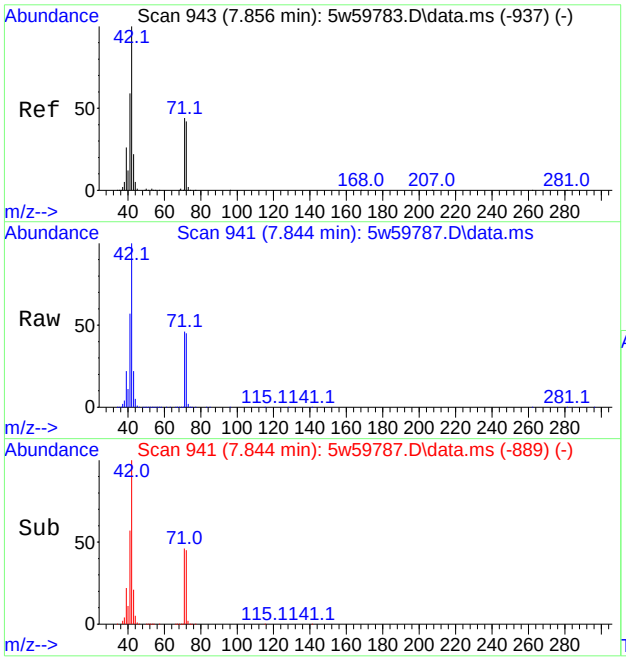


#36
METHYL TERTIARY BUTYL ETHER
Concen: 63.24 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 73 Resp: 7764187

Ion	Ratio	Lower	Upper
73	100		
57	23.5	0.0	53.1
41	19.8	0.0	50.6

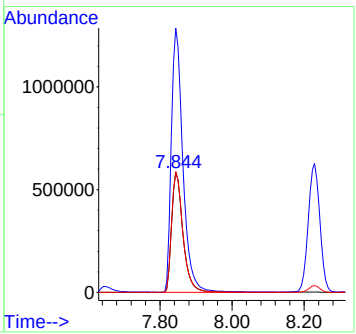


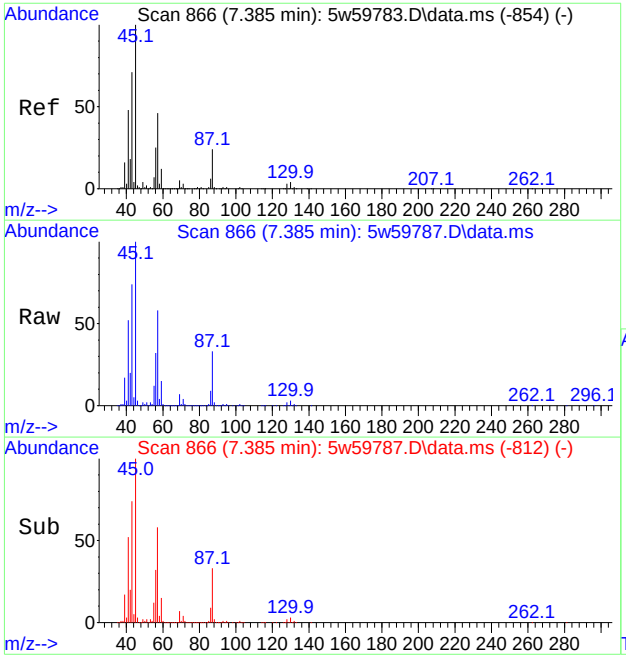


#37
TETRAHYDROFURAN
Concen: 65.77 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1279396

Ion	Ratio	Lower	Upper
72	100		
42	223.5	202.4	262.4
71	100.6	71.1	131.1

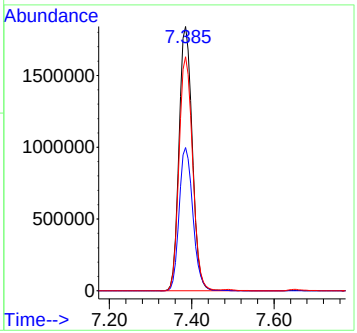


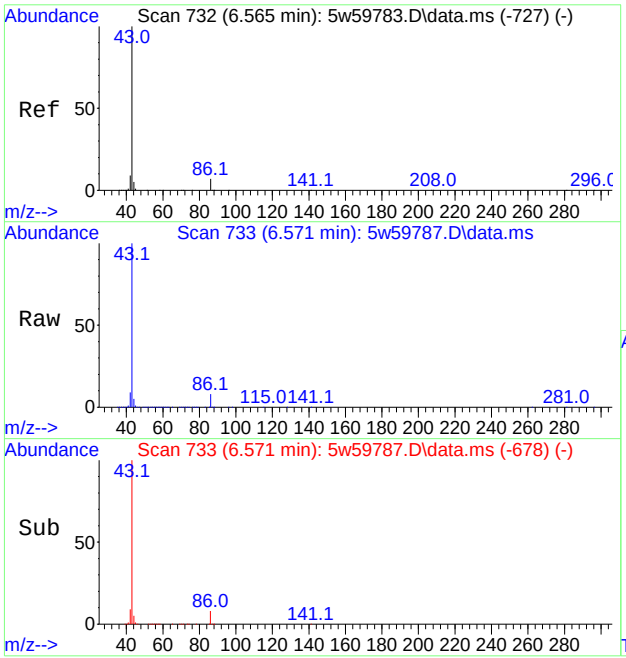


#38
HEXANE
Concen: 58.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 4098725

Ion	Ratio	Lower	Upper
57	100		
56	56.6	25.9	85.9
41	91.2	74.7	134.7

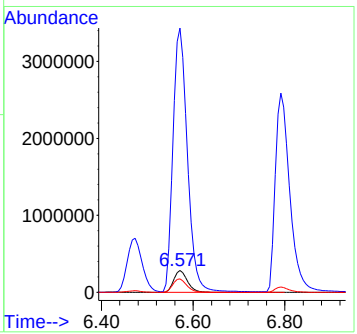


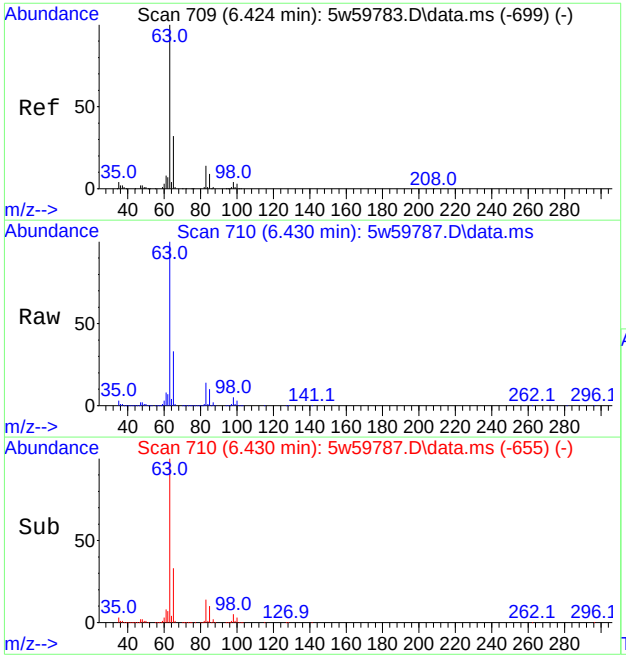


#39
VINYL ACETATE
Concen: 69.16 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 86 Resp: 595335

Ion	Ratio	Lower	Upper
86	100		
43	1251.0	1379.7	1439.7#
44	62.3	36.9	96.9

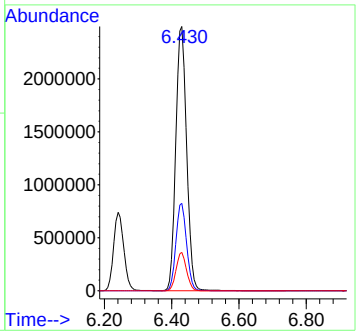


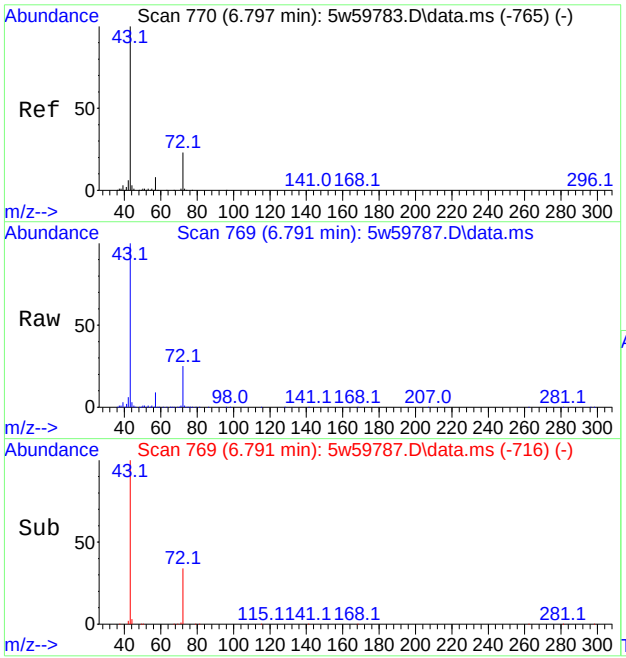


#40
1,1-DICHLOROETHANE
Concen: 63.37 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 5580661

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.7	61.7
83	14.0	0.0	43.5

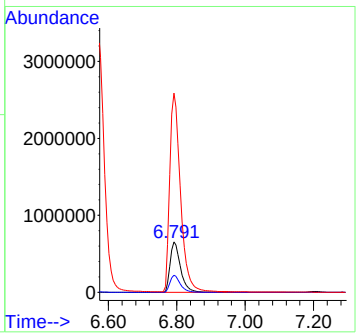


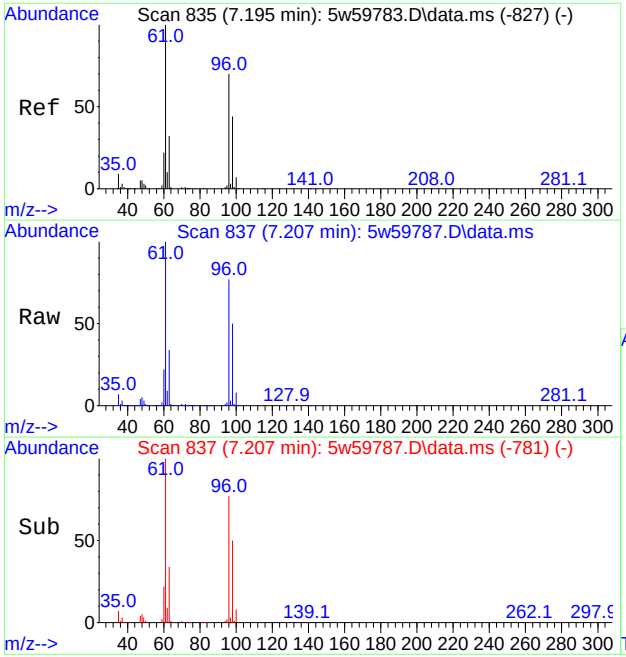


#41
METHYL ETHYL KETONE
Concen: 68.19 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1403846

Ion	Ratio	Lower	Upper
72	100		
57	34.0	4.8	64.8
43	394.5	415.9	475.9#

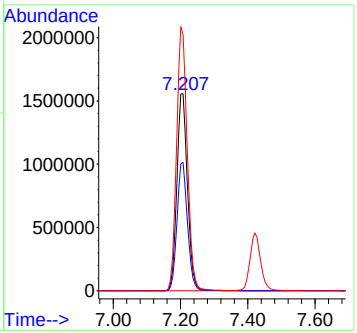


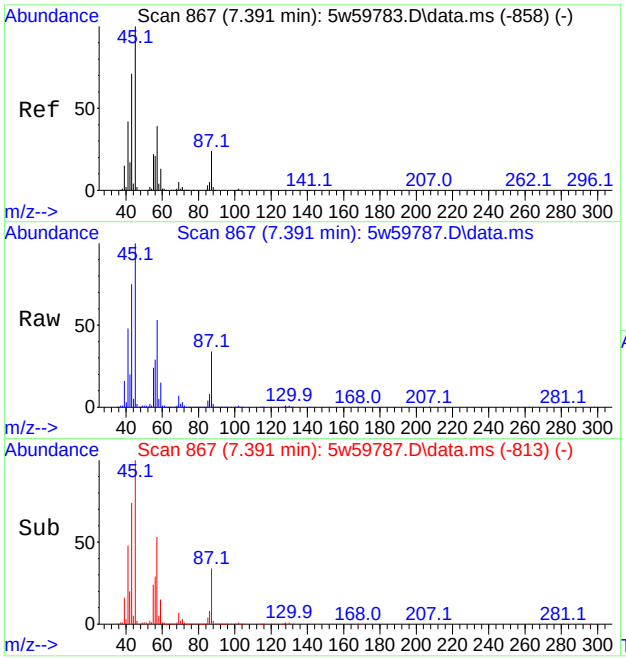


#42
cis-1,2-DICHLOROETHYLENE
Concen: 66.53 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3406006

Ion	Ratio	Lower	Upper
96	100		
98	64.6	34.0	94.0
61	134.9	111.5	171.5

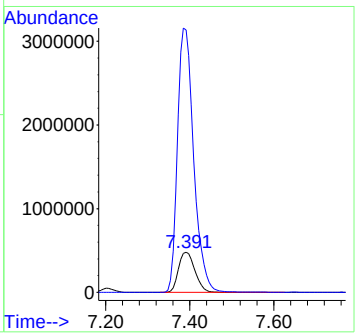


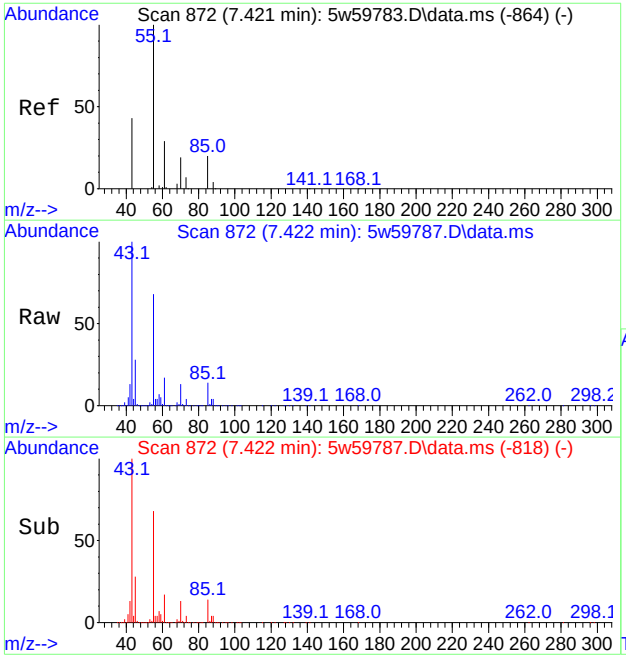


#43
DIISOPROPYL ETHER
Concen: 59.80 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 1304563

Ion	Ratio	Lower	Upper
59	100		
45	649.0	720.9	780.9#

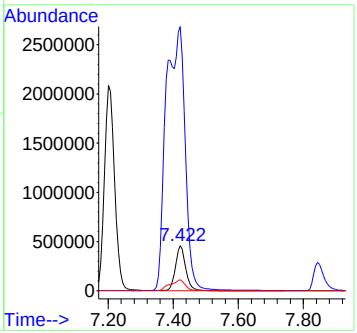


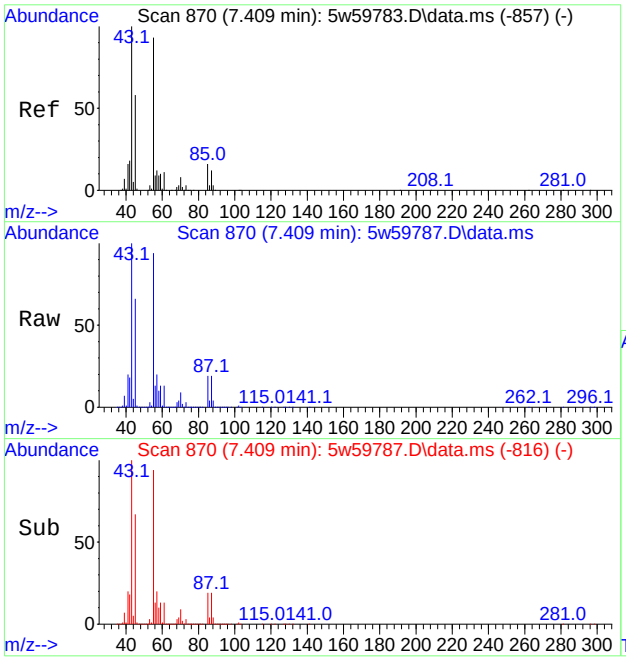


#44
ETHYL ACETATE
Concen: 62.87 PPBV m
RT: 7.422 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 61 Resp: 1009100

Ion	Ratio	Lower	Upper
61	100		
43	545.0	560.5	620.5#
88	36.8	4.5	64.5

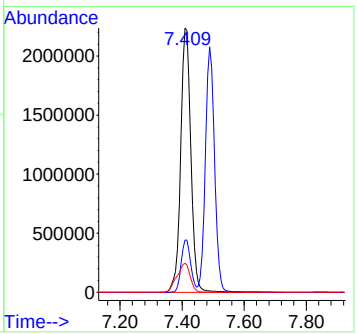


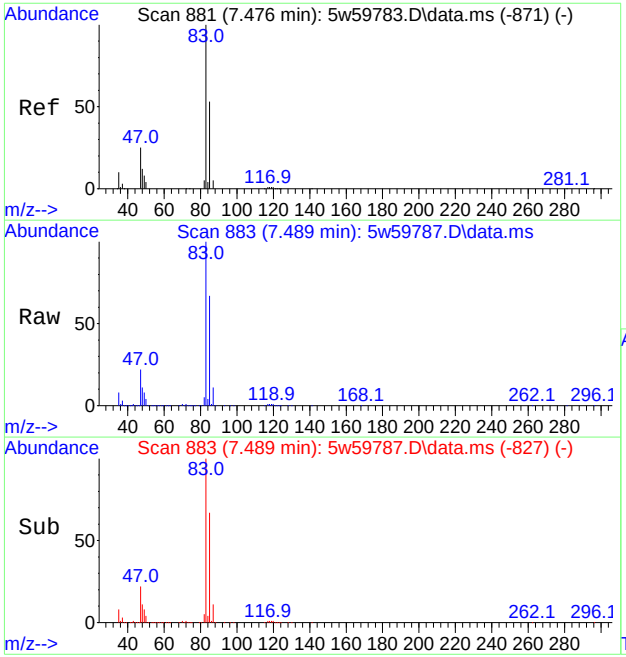


#45
METHYL ACRYLATE
Concen: 59.04 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 5147084

Ion	Ratio	Lower	Upper
55	100		
85	18.4	10.9	20.3
58	14.2	9.4	17.6

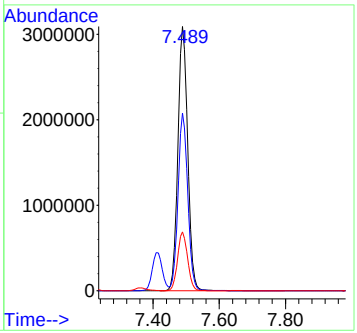


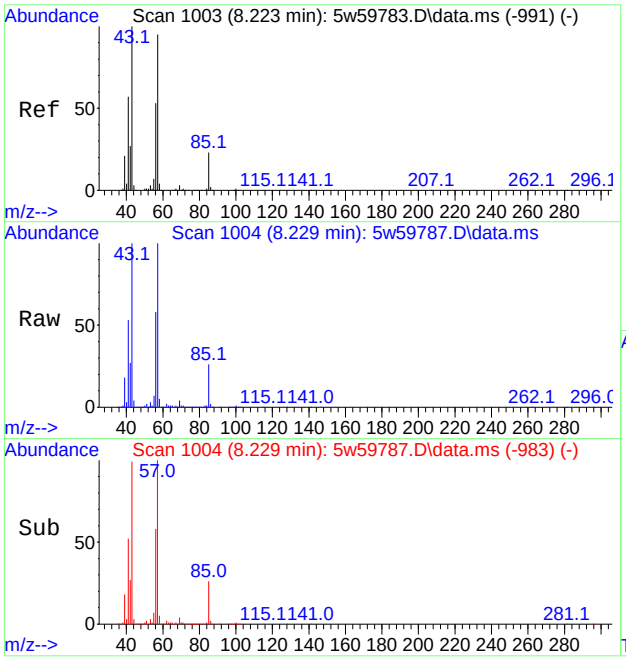


#46
CHLOROFORM
Concen: 62.45 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 6393103

Ion	Ratio	Lower	Upper
83	100		
85	66.7	35.6	95.6
47	22.7	0.0	55.2

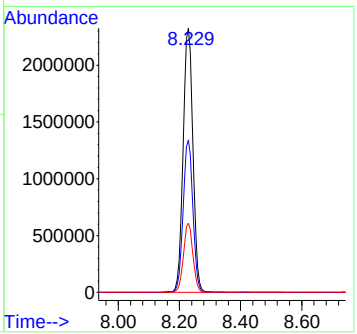


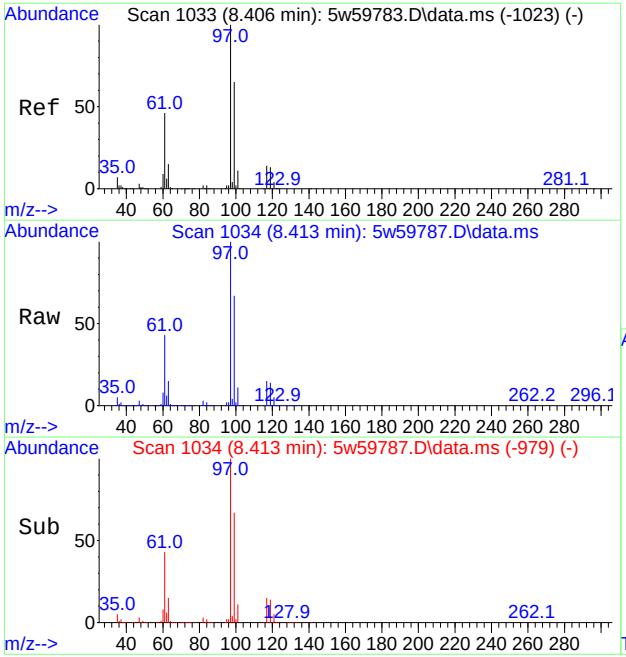


#47
2,4-DIMETHYLPENTANE
Concen: 62.87 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 5181431

Ion	Ratio	Lower	Upper
57	100		
56	57.5	26.5	86.5
85	25.4	0.0	53.8

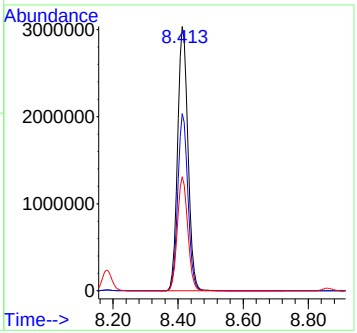


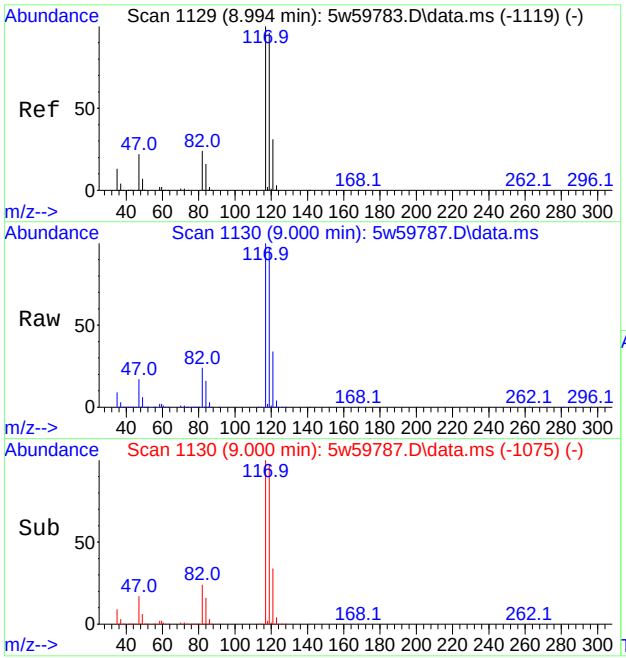


#48
1,1,1-TRICHLOROETHANE
Concen: 62.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 97 Resp: 6744194

Ion	Ratio	Lower	Upper
97	100		
99	66.0	34.8	94.8
61	43.4	15.8	75.8

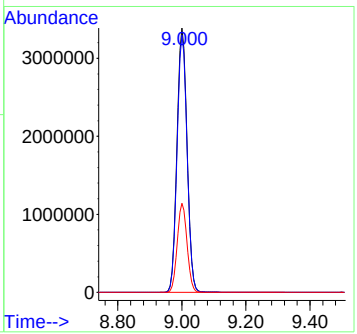


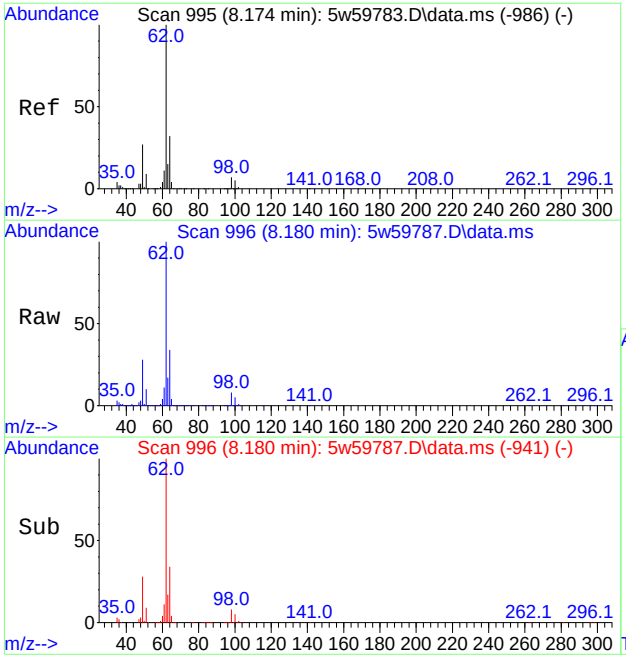


#49
CARBON TETRACHLORIDE
Concen: 61.67 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 7391895

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	32.8	1.3	61.3

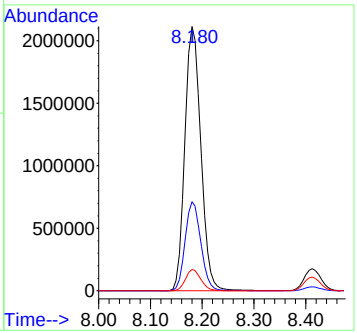


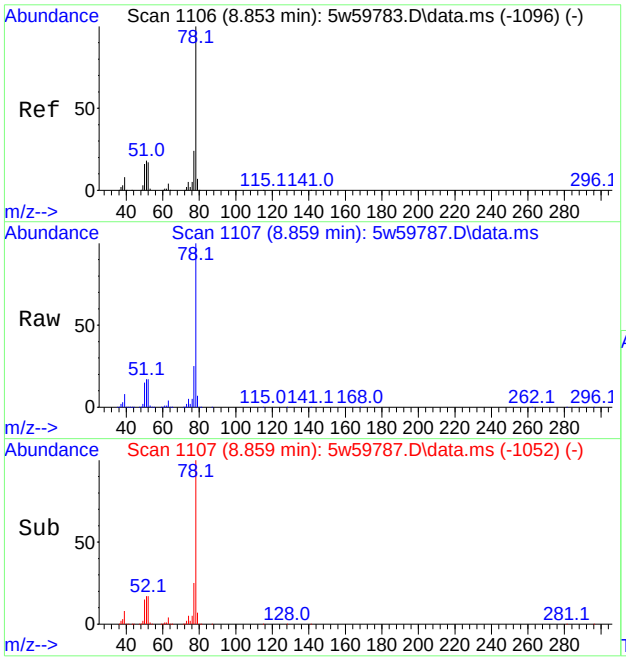


#50
1,2-DICHLOROETHANE
Concen: 62.85 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 4560398

Ion	Ratio	Lower	Upper
62	100		
64	33.2	2.3	62.3
98	7.7	0.0	36.9

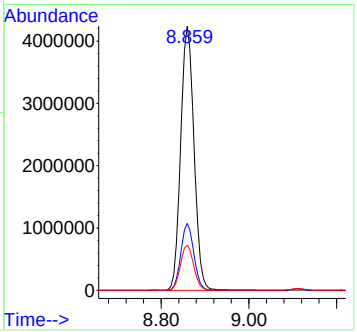


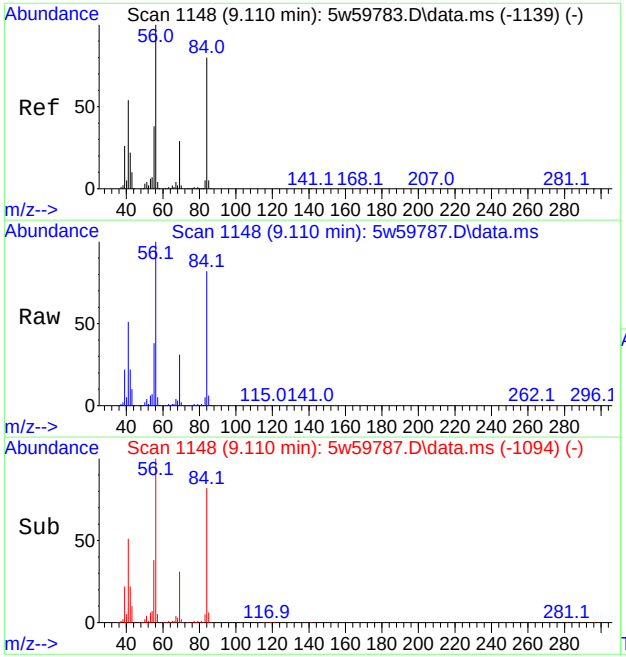


#52
BENZENE
Concen: 67.41 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 78 Resp: 8949189

Ion	Ratio	Lower	Upper
78	100		
77	24.7	0.0	53.8
52	17.1	0.0	46.9

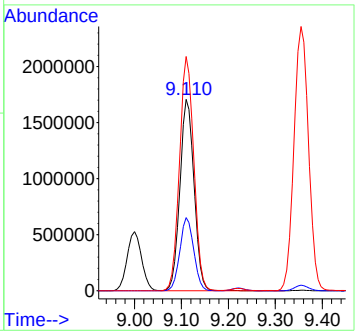


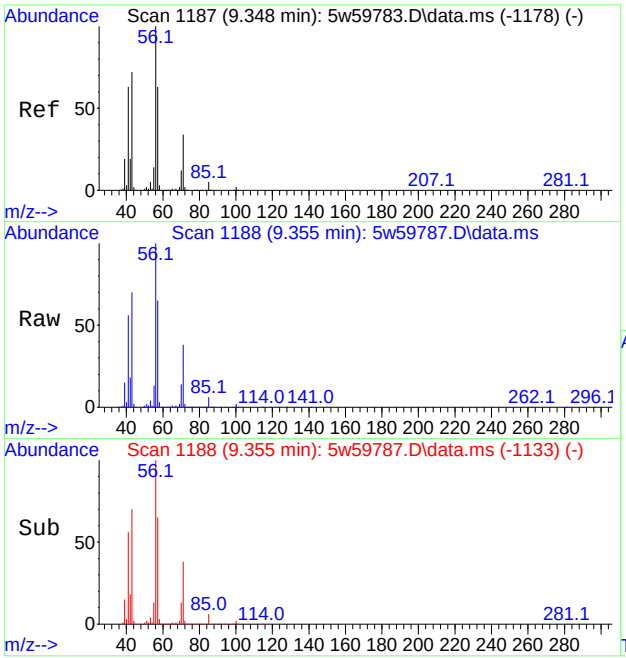


#53
CYCLOHEXANE
Concen: 67.59 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 3590293

Ion	Ratio	Lower	Upper
84	100		
69	37.6	6.9	66.9
56	123.7	98.2	158.2

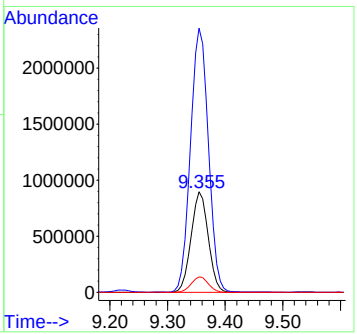


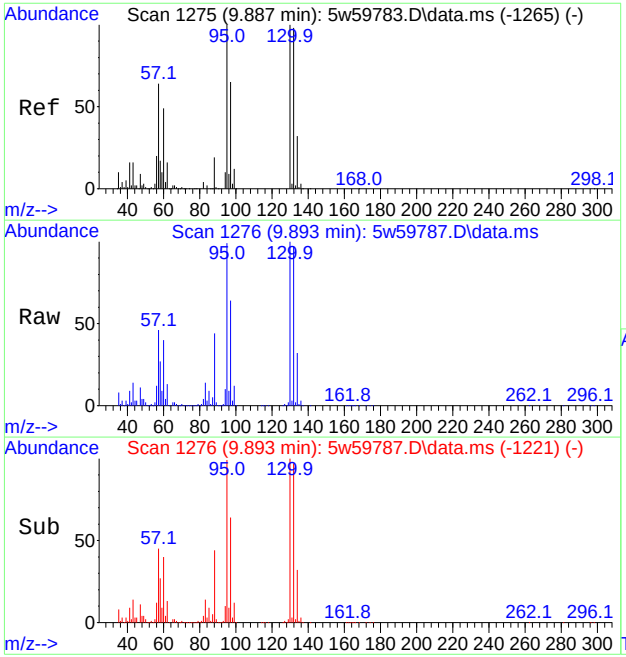


#54
2,3-DIMETHYLPENTANE
Concen: 67.86 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 71 Resp: 1853301

Ion	Ratio	Lower	Upper
71	100		
56	275.2	264.6	324.6
85	15.5	0.0	45.3

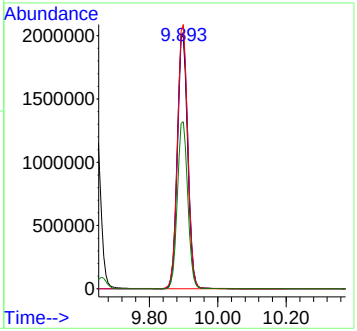


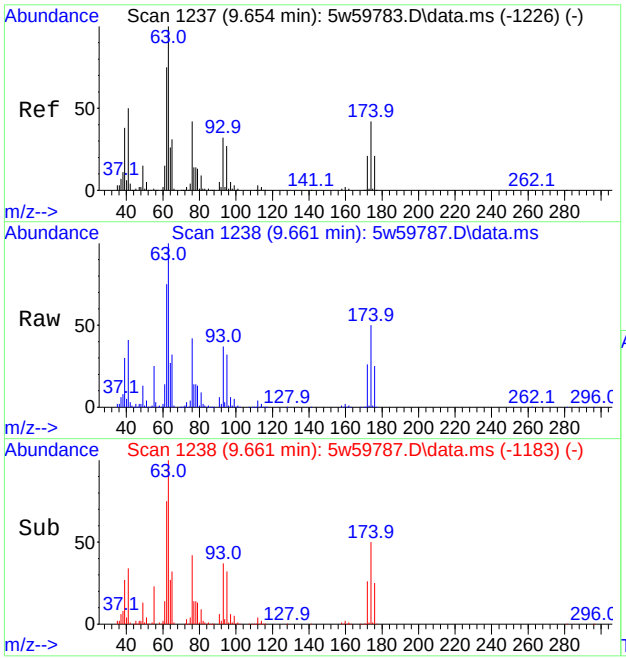


#55
TRICHLOROETHYLENE
Concen: 61.05 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 95 Resp: 4247994

Ion	Ratio	Lower	Upper
95	100		
132	100.4	69.0	129.0
130	103.4	70.6	130.6
97	65.6	34.6	94.6

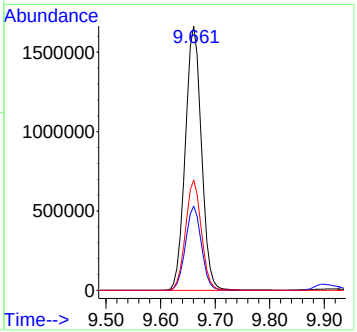


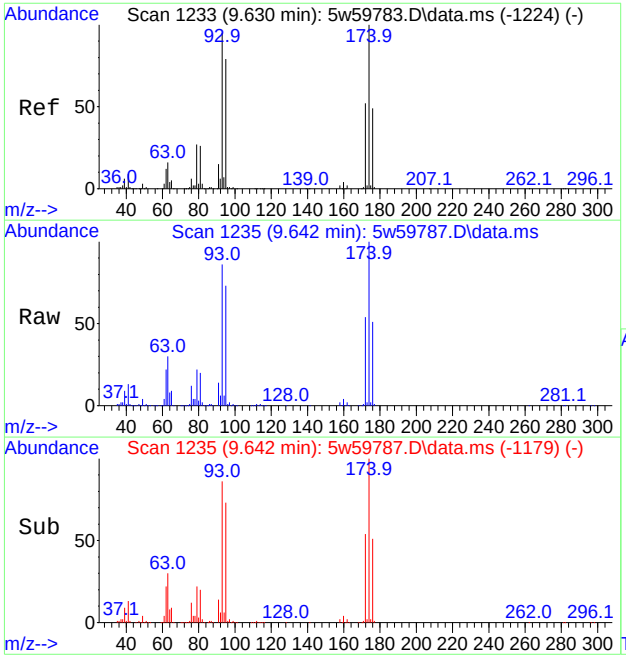


#56
1,2-DICHLOROPROPANE
Concen: 61.24 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 3414269

Ion	Ratio	Lower	Upper
63	100		
65	31.5	0.5	60.5
76	41.1	11.5	71.5

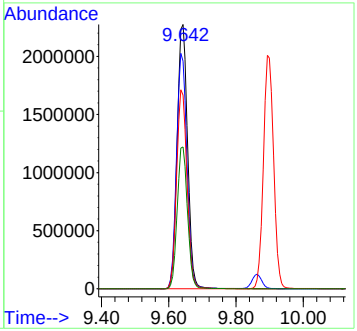


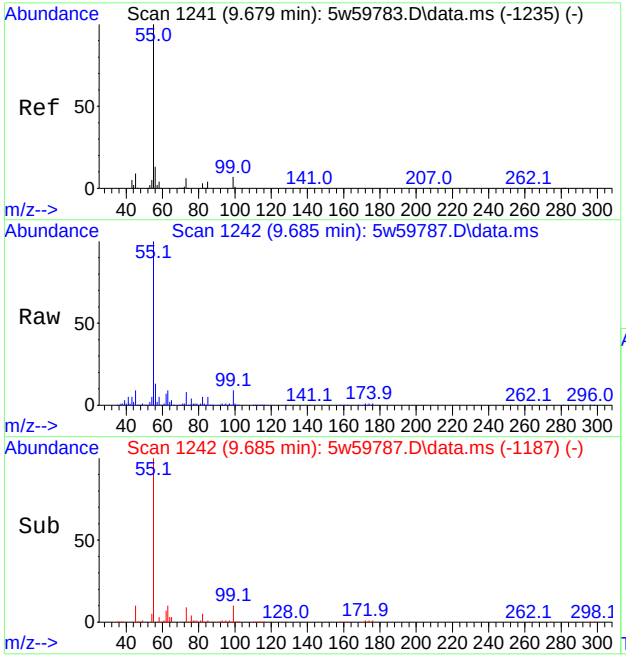


#57
DIBROMOMETHANE
Concen: 64.66 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:174 Resp: 4863346

Ion	Ratio	Lower	Upper
174	100		
93	89.4	65.0	120.6
95	75.5	54.5	101.1
172	53.4	36.3	67.5

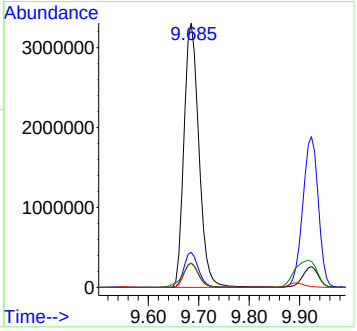


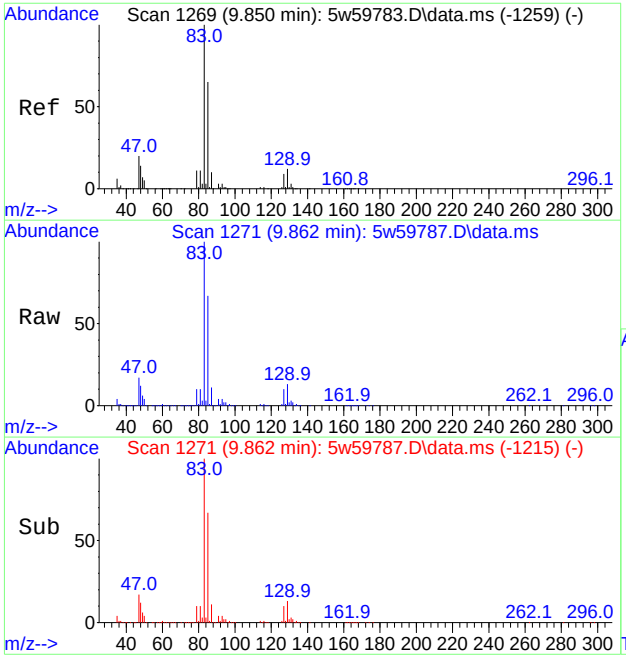


#58
ETHYL ACRYLATE
Concen: 63.67 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 6797917

Ion	Ratio	Lower	Upper
55	100		
56	12.9	8.6	16.0
45	9.0	6.6	12.2
99	10.0	6.4	12.0

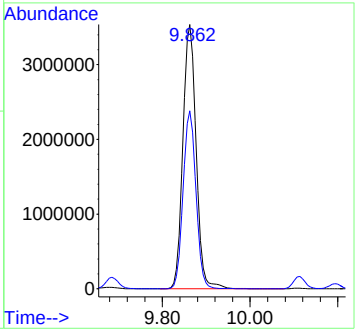


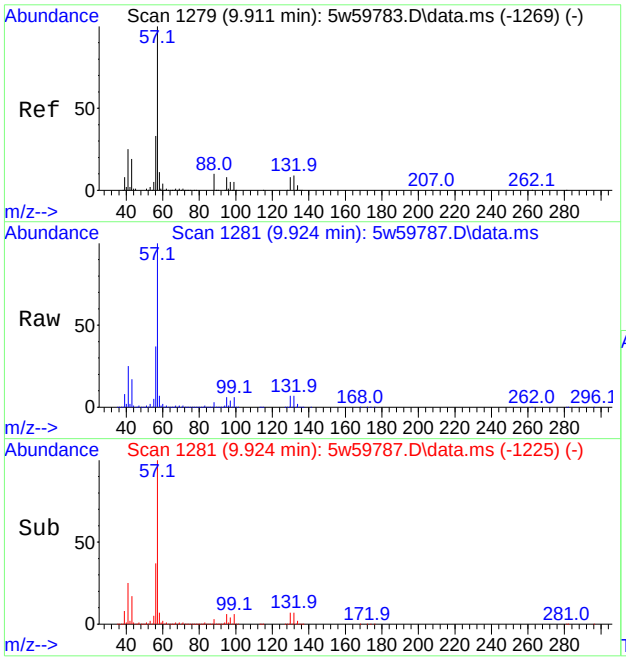


#59
BROMODICHLOROMETHANE
Concen: 61.30 PPBV
RT: 9.862 min Scan# 1271
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7417663

Ion	Ratio	Lower	Upper
83	100		
85	65.4	33.4	93.4

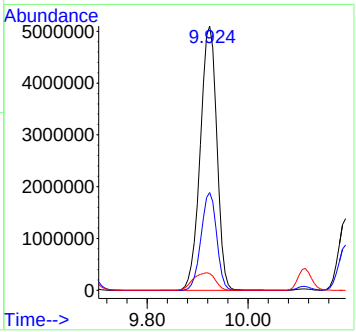


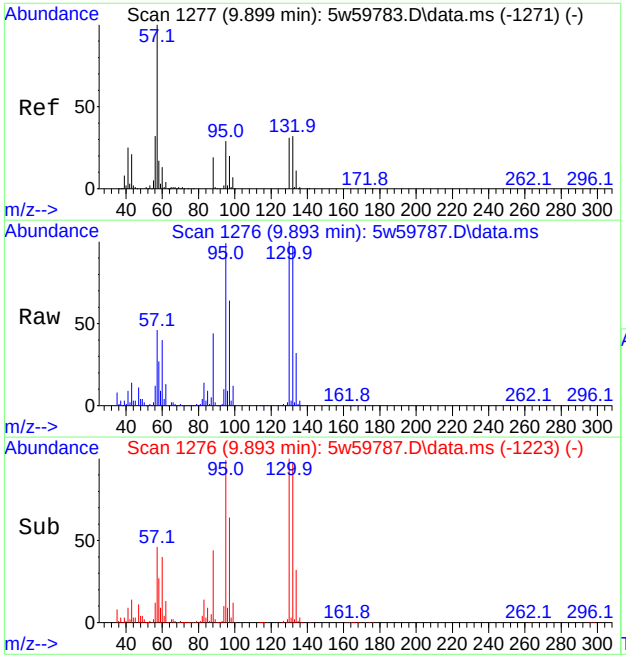


#60
2,2,4-TRIMETHYLPENTANE
Concen: 56.13 PPBV
RT: 9.924 min Scan# 1281
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp:11658719

Ion	Ratio	Lower	Upper
57	100		
56	34.7	2.5	62.5
99	8.9	0.0	37.3

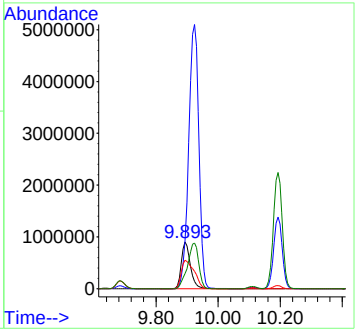


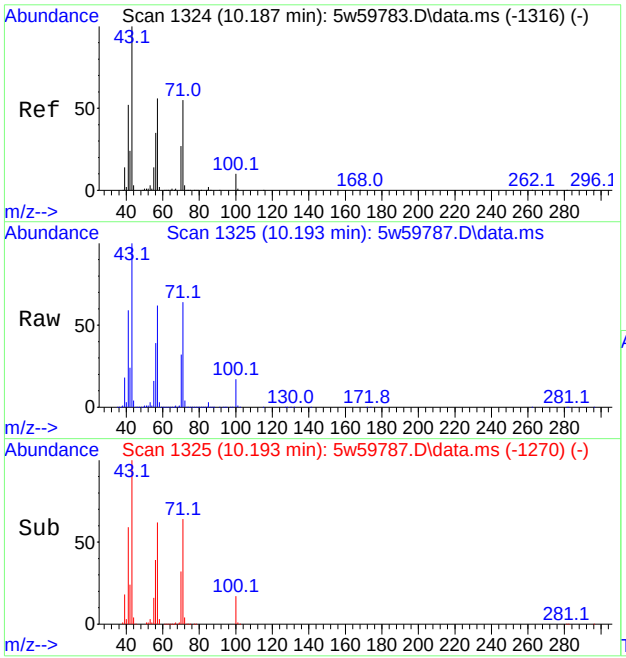


#61
1,4-DIOXANE
Concen: 60.00 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 88 Resp: 1844331

Ion	Ratio	Lower	Upper
88	100		
57	102.5	494.2	554.2#
58	61.2	58.9	118.9
43	32.1	78.3	138.3#

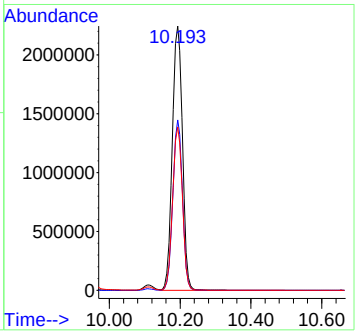


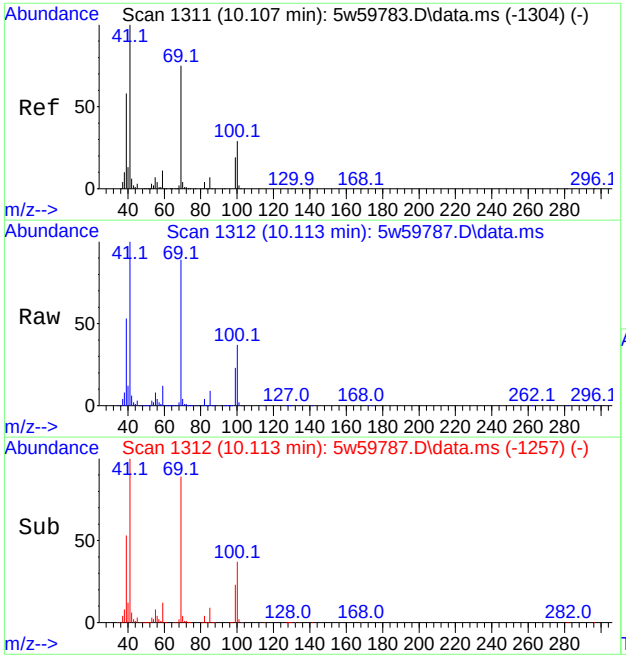


#62
HEPTANE
Concen: 63.31 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 4474034

Ion	Ratio	Lower	Upper
43	100		
71	61.1	24.5	84.5
57	59.9	26.2	86.2

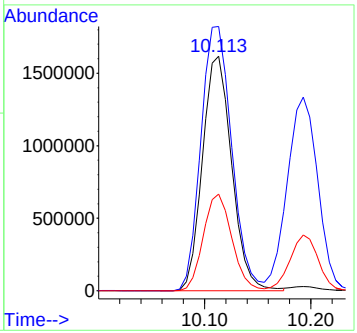


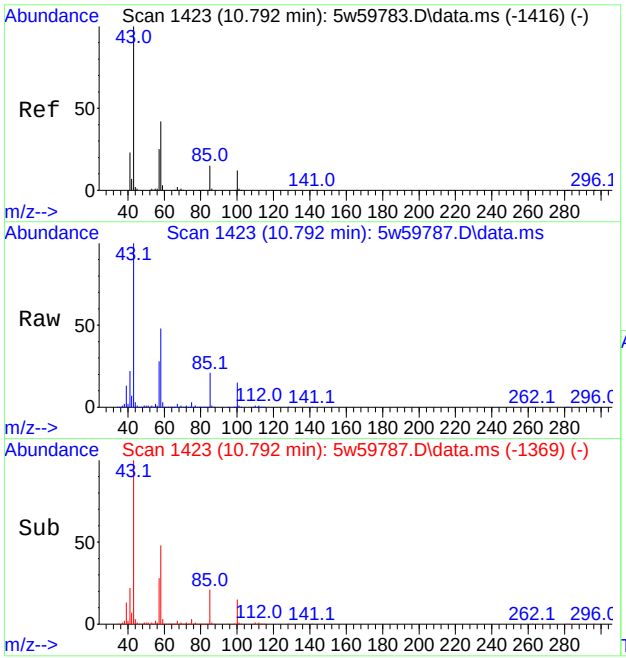


#63
METHYL METHACRYLATE
Concen: 67.79 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 3101307

Ion	Ratio	Lower	Upper
69	100		
41	118.8	95.3	155.3
100	40.2	6.3	66.3

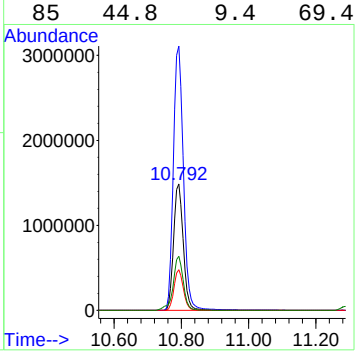


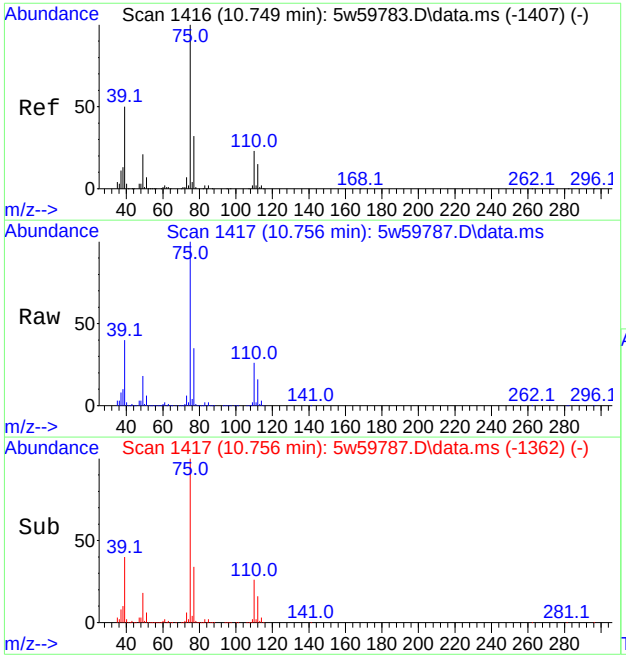


#64
METHYL ISOBUTYL KETONE
Concen: 66.58 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 2975343

Ion	Ratio	Lower	Upper
58	100		
43	216.5	209.2	269.2
100	31.2	0.0	58.8
85	44.8	9.4	69.4

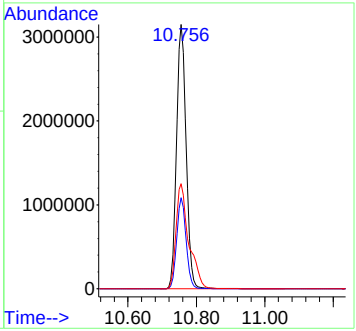


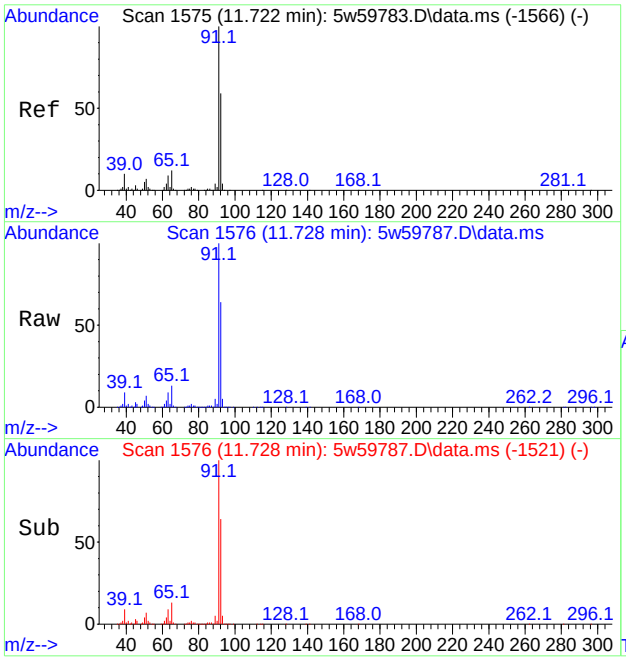


#65
cis-1,3-DICHLOROPROPENE
Concen: 66.43 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6183357

Ion	Ratio	Lower	Upper
75	100		
77	33.7	2.2	62.2
39	53.0	34.3	94.3

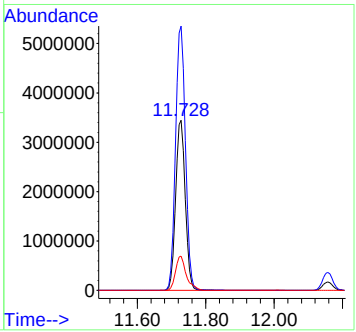


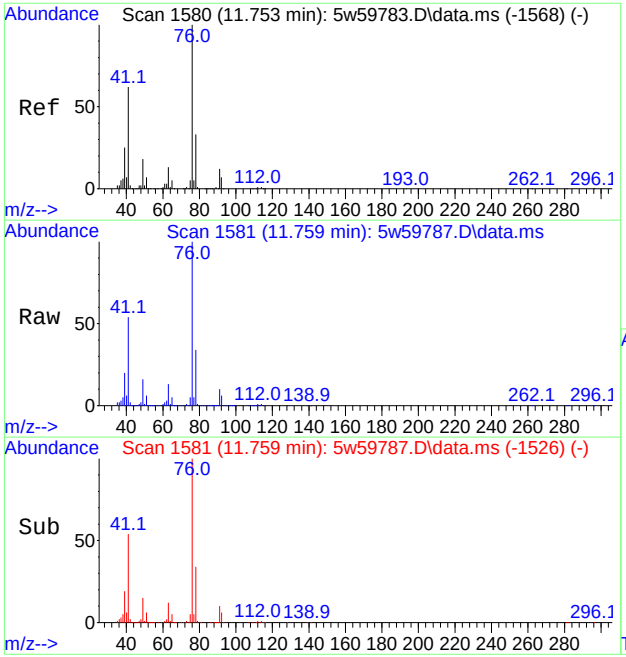


#66
TOLUENE
Concen: 65.67 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 92 Resp: 6766589

Ion	Ratio	Lower	Upper
92	100		
91	160.0	140.1	200.1
65	22.6	0.0	53.1

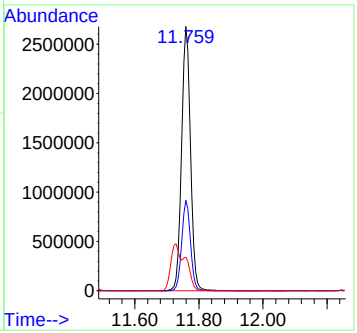


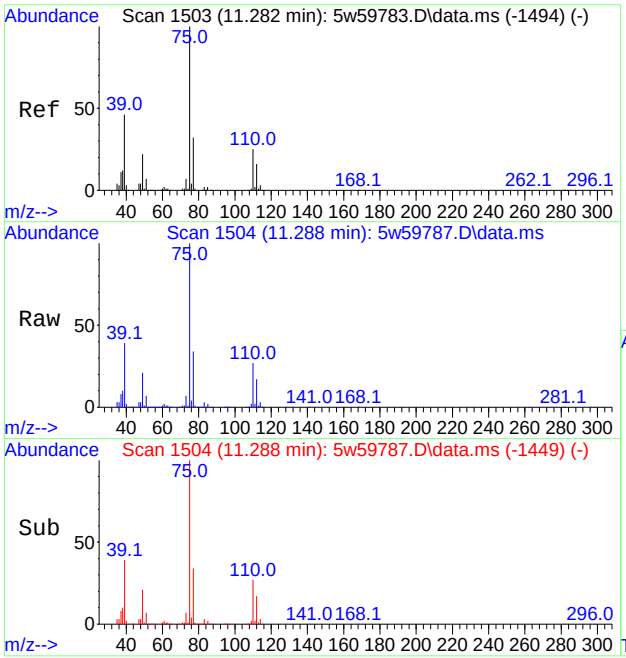


#67
1,3-DICHLOROPROPANE
Concen: 63.52 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 5183507

Ion	Ratio	Lower	Upper
76	100		
78	33.7	23.2	43.0
63	12.1	7.1	13.1

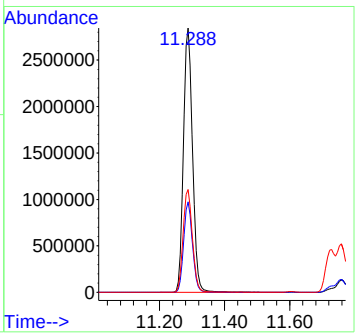


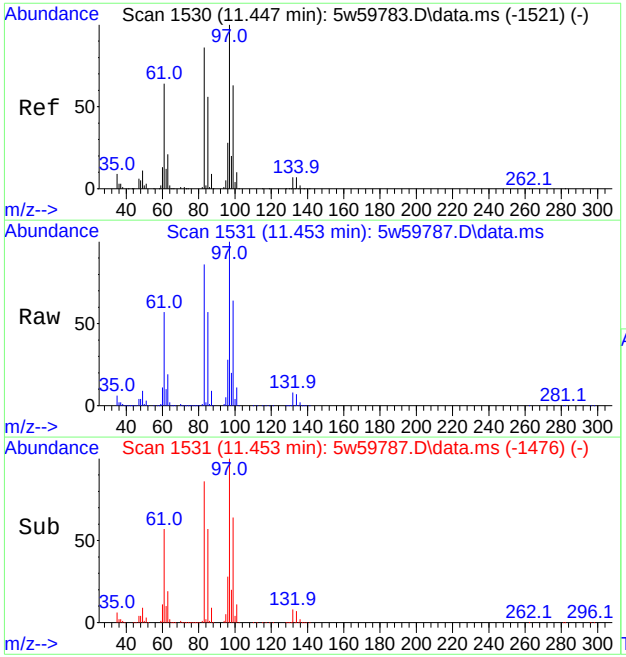


#68
trans-1,3-DICHLOROPROPENE
Concen: 63.59 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 5535715

Ion	Ratio	Lower	Upper
75	100		
77	33.3	1.6	61.6
39	40.1	16.1	76.1

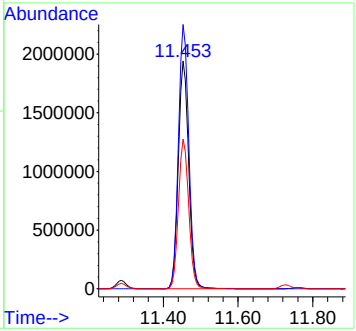


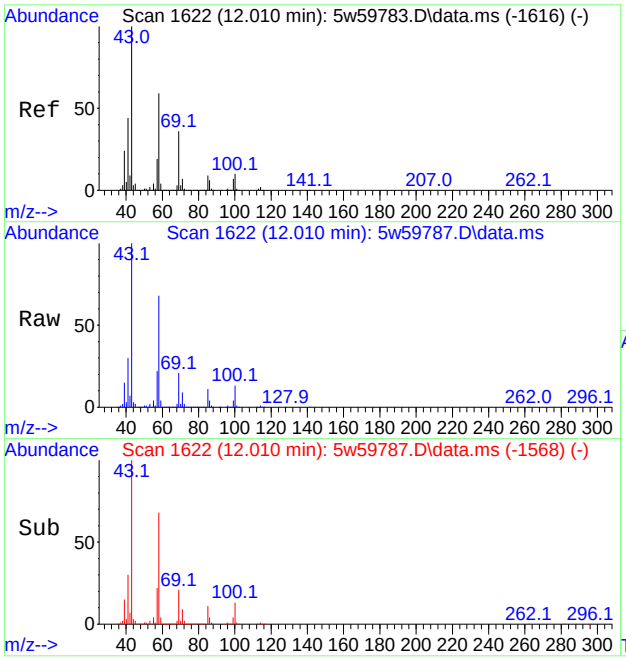


#69
1,1,2-TRICHLOROETHANE
Concen: 66.35 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 3736885

Ion	Ratio	Lower	Upper
83	100		
97	116.2	86.3	146.3
85	65.4	35.3	95.3

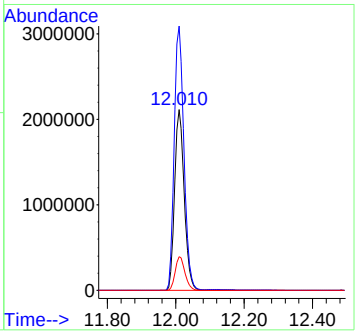


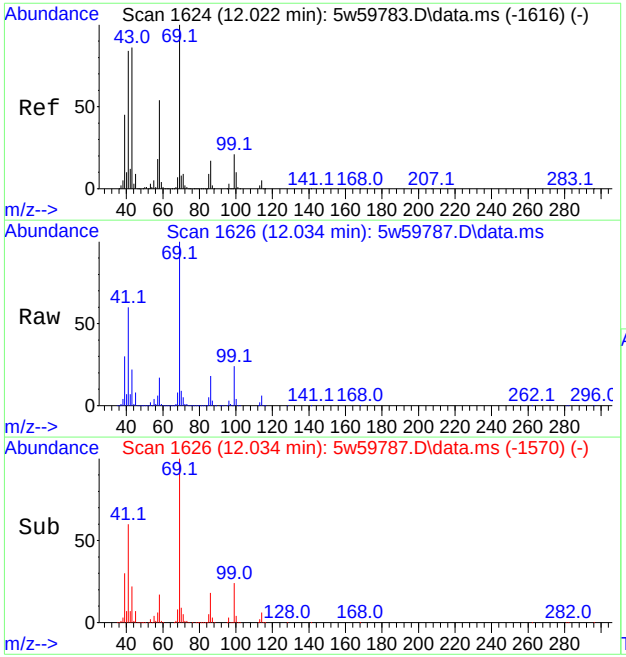


#71
2-HEXANONE
Concen: 54.00 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 4158676

Ion	Ratio	Lower	Upper
58	100		
43	147.9	137.2	197.2
100	18.9	0.0	46.9

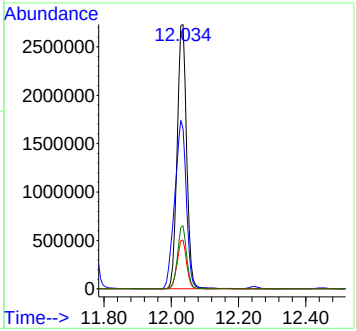


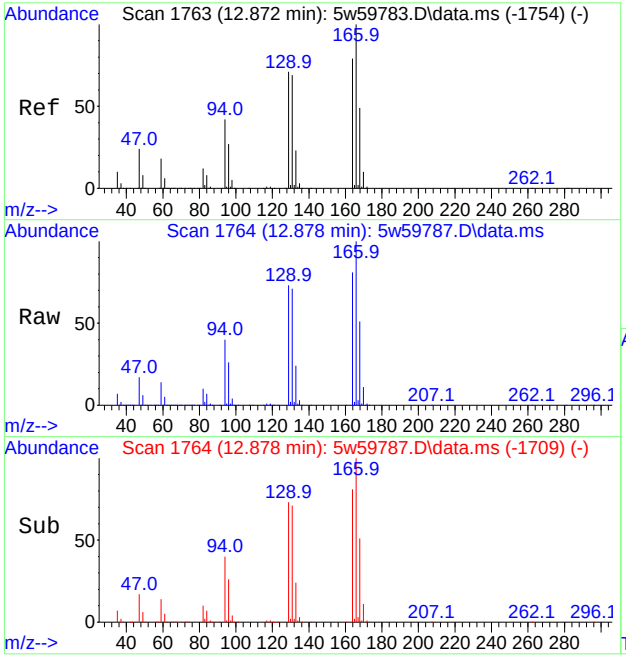


#72
ETHYL METHACRYLATE
Concen: 53.39 PPBV
RT: 12.034 min Scan# 1626
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 5321053

Ion	Ratio	Lower	Upper
69	100		
41	77.8	64.0	119.0
86	18.4	12.0	22.4
99	23.1	15.0	27.8

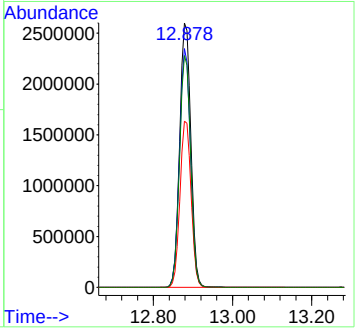


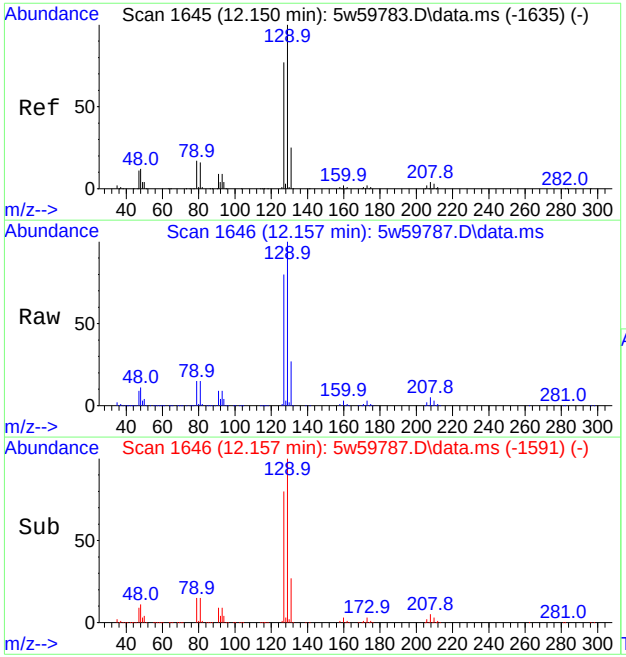


#73
TETRACHLOROETHYLENE
Concen: 56.17 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:164 Resp: 5112644

Ion	Ratio	Lower	Upper
164	100		
129	89.2	59.7	119.7
168	62.8	32.2	92.2
131	87.3	57.8	117.8

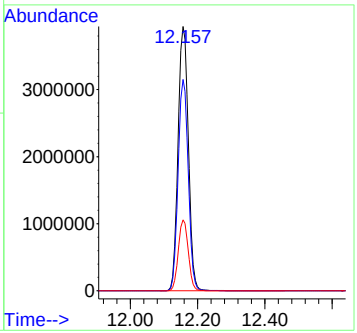


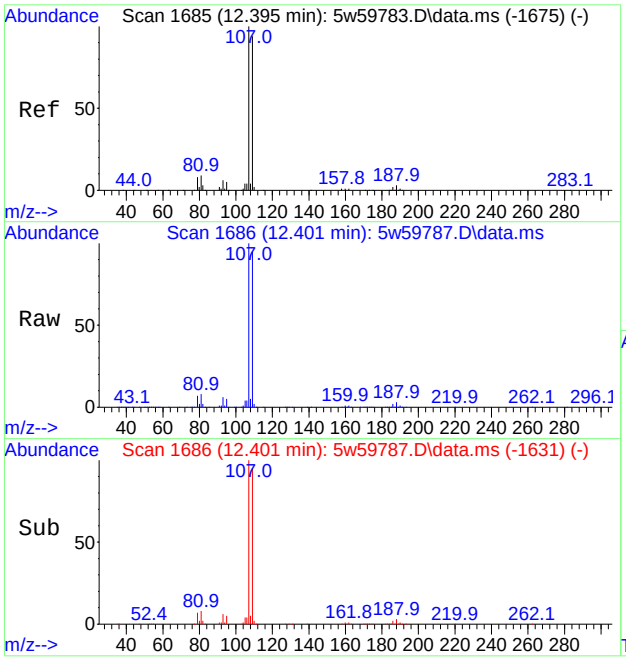


#74
DIBROMOCHLOROMETHANE
Concen: 52.38 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:129 Resp: 8396348

Ion	Ratio	Lower	Upper
129	100		
127	78.8	47.1	107.1
131	26.1	0.0	54.5

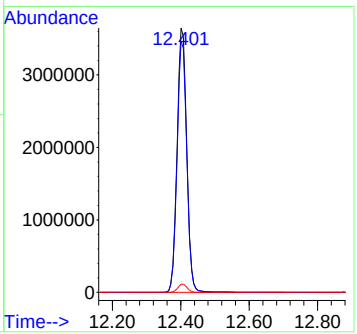


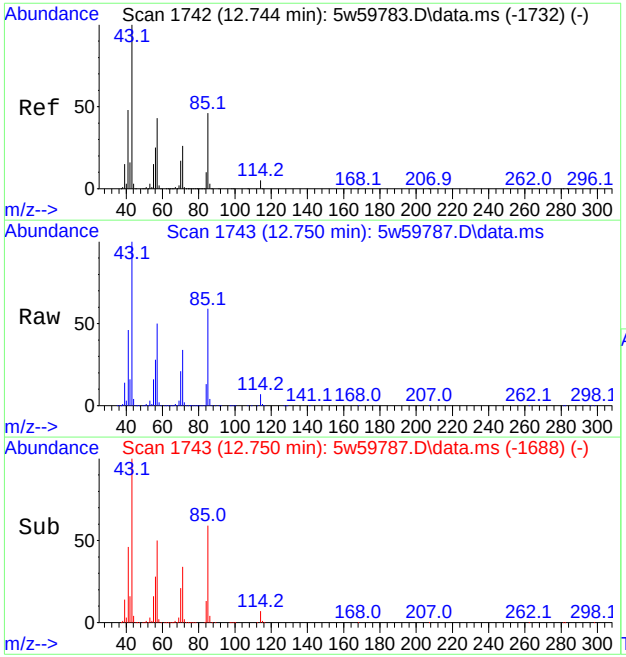


#75
1,2-DIBROMOETHANE
Concen: 57.04 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:107 Resp: 7189005

Ion	Ratio	Lower	Upper
107	100		
109	95.3	64.8	124.8
188	3.0	0.0	32.8

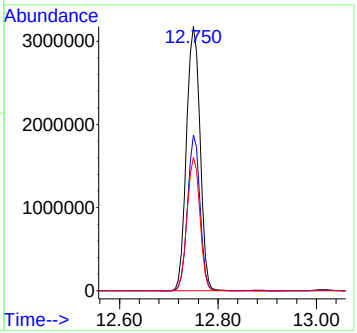


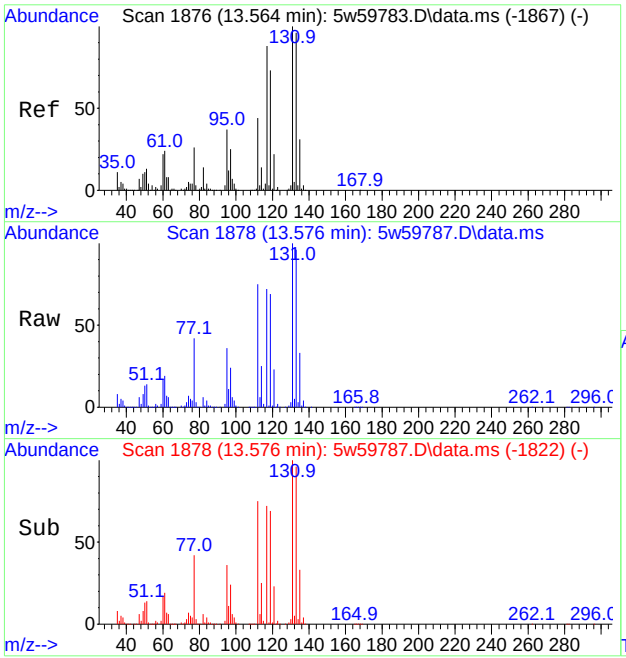


#76
OCTANE
Concen: 51.61 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 6099138

Ion	Ratio	Lower	Upper
43	100		
85	53.9	14.6	74.6
57	48.0	13.7	73.7

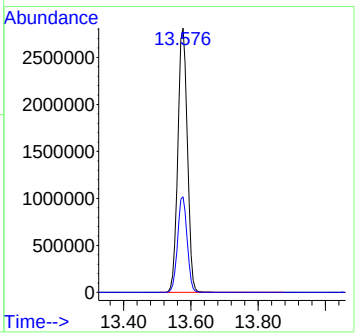


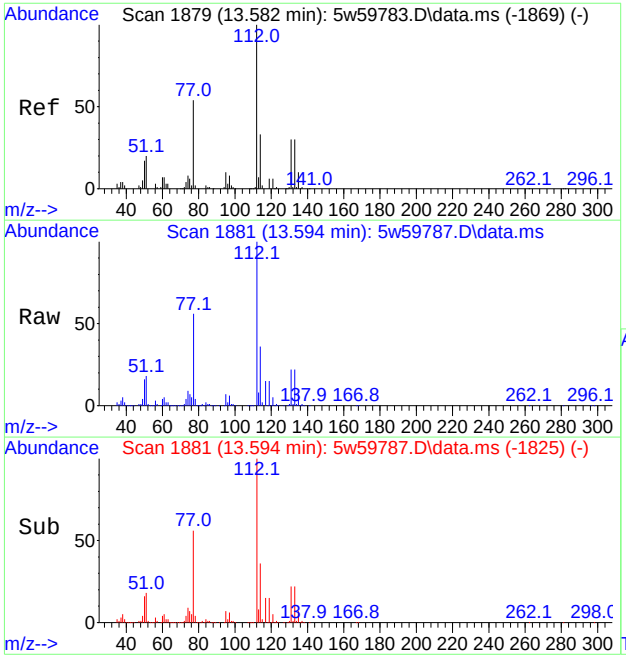


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 54.07 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:131 Resp: 5539677

Ion	Ratio	Lower	Upper
131	100		
95	36.2	6.5	66.5

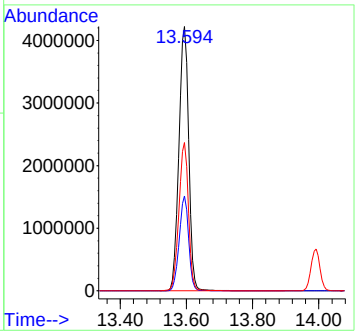


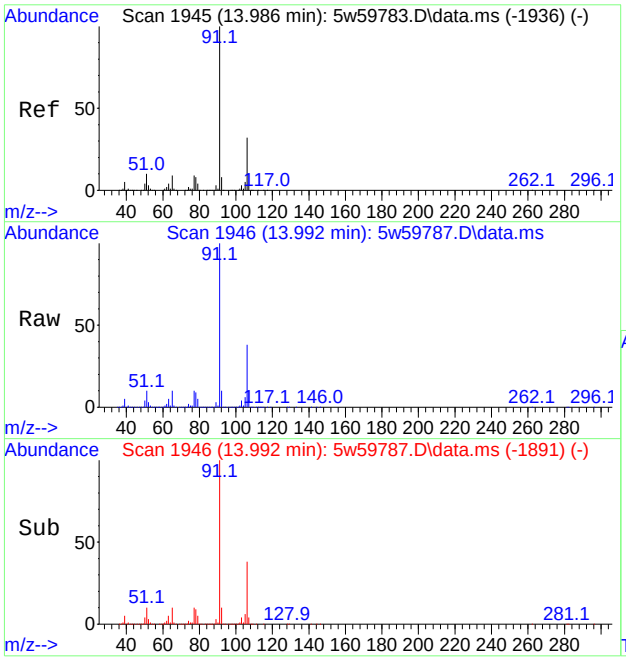


#78
CHLOROBENZENE
Concen: 52.99 PPBV
RT: 13.594 min Scan# 1881
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:112 Resp: 8685700

Ion	Ratio	Lower	Upper
112	100		
114	34.4	2.6	62.6
77	55.0	25.4	85.4

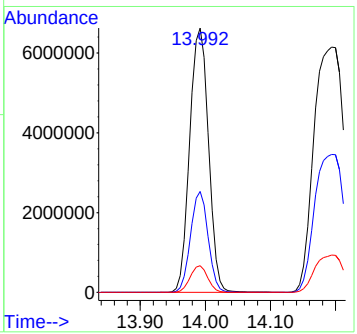


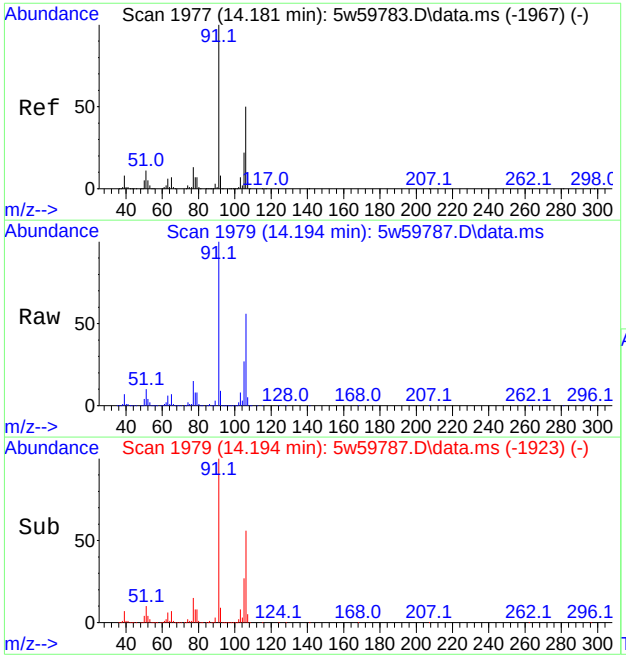


#79
ETHYLBENZENE
Concen: 52.78 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:13293280

Ion	Ratio	Lower	Upper
91	100		
106	35.6	1.3	61.3
77	9.4	0.0	38.6

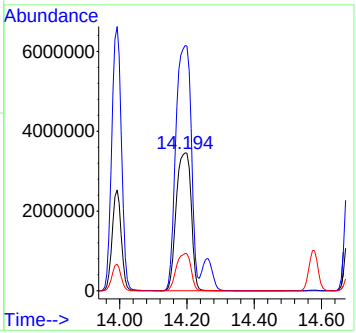


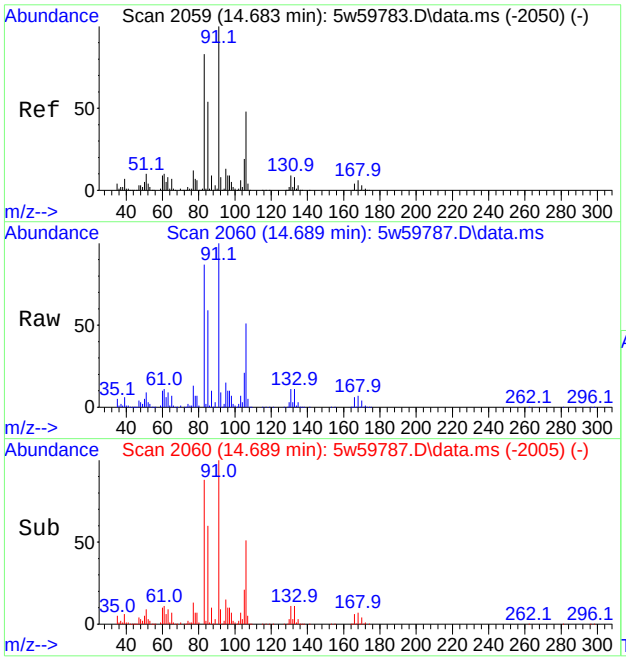


#80
m,p-XYLENE
Concen: 104.01 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp:10660694

Ion	Ratio	Lower	Upper
106	100		
91	177.8	171.0	231.0
77	27.1	0.0	56.7

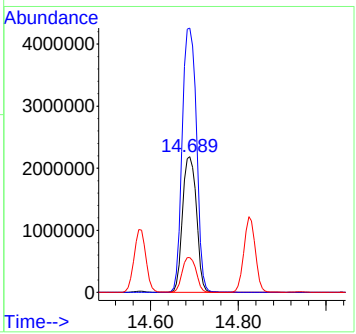


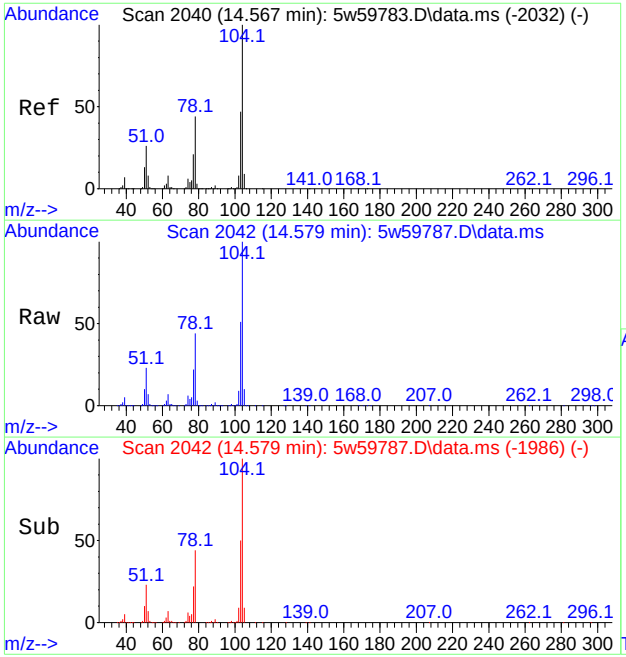


#81
o-XYLENE
Concen: 49.93 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 4828440

Ion	Ratio	Lower	Upper
106	100		
91	199.8	181.6	241.6
77	25.8	0.0	56.6

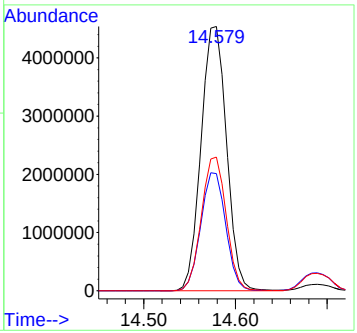


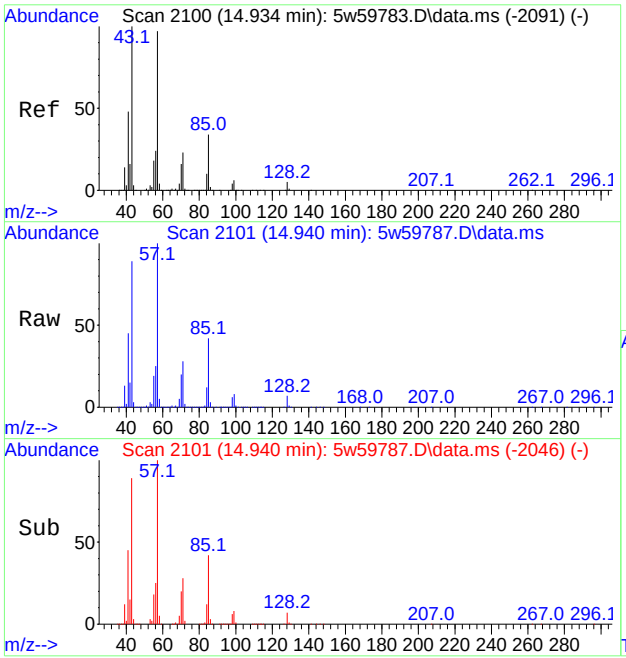


#82
STYRENE
Concen: 56.42 PPBV
RT: 14.579 min Scan# 2042
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:104 Resp: 8801086

Ion	Ratio	Lower	Upper
104	100		
78	43.7	13.3	73.3
103	49.3	17.2	77.2

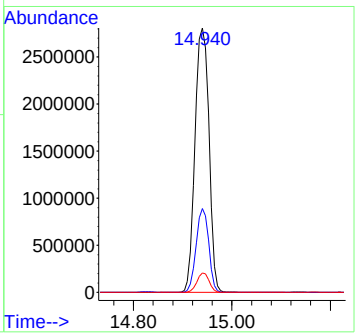


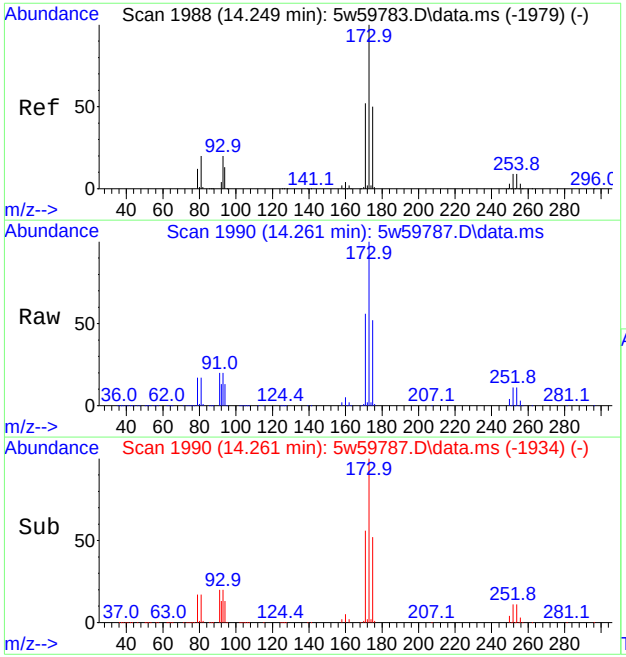


#83
NONANE
Concen: 46.77 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 5544485

Ion	Ratio	Lower	Upper
43	100		
71	28.5	0.0	52.7
128	6.4	0.0	34.7

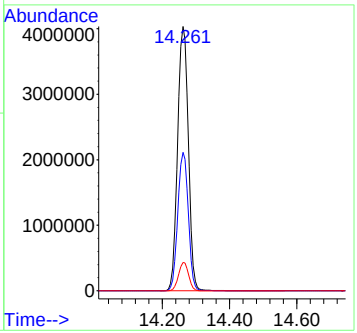


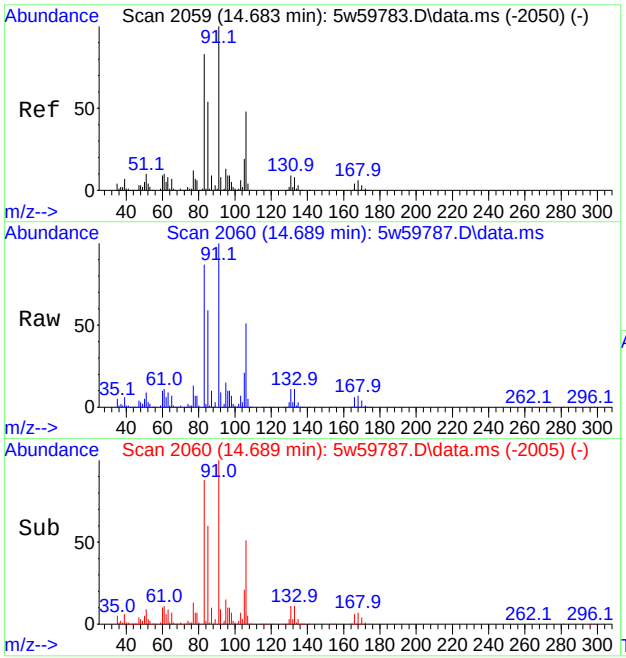


#84
BROMOFORM
Concen: 53.58 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:173 Resp: 8954982

Ion	Ratio	Lower	Upper
173	100		
175	51.3	19.6	79.6
254	10.1	0.0	39.0

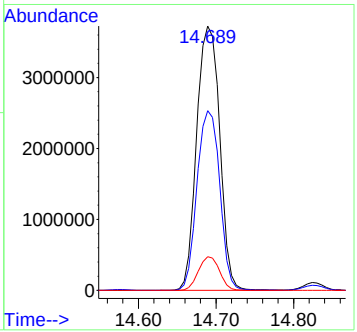


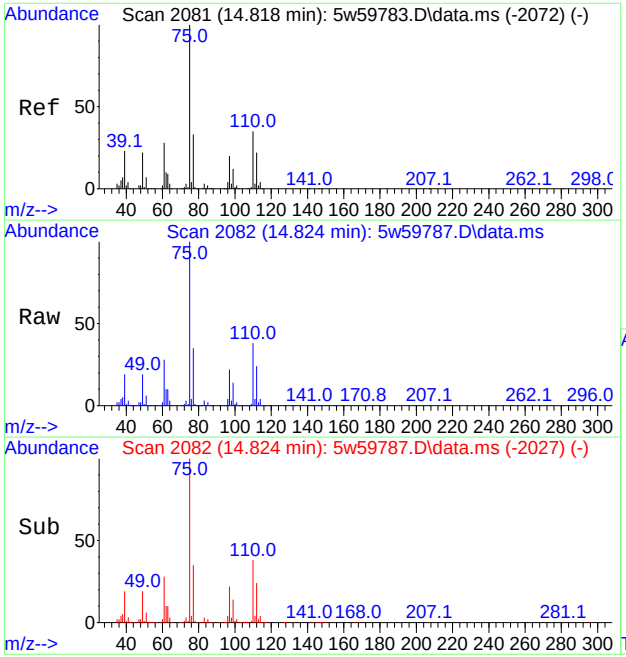


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 46.70 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7680268

Ion	Ratio	Lower	Upper
83	100		
85	67.0	35.2	95.2
131	11.7	0.0	40.3

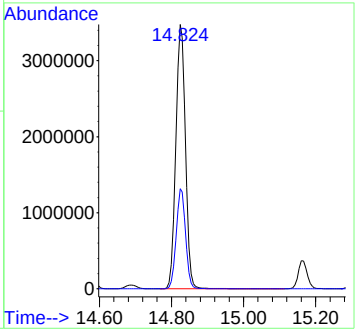


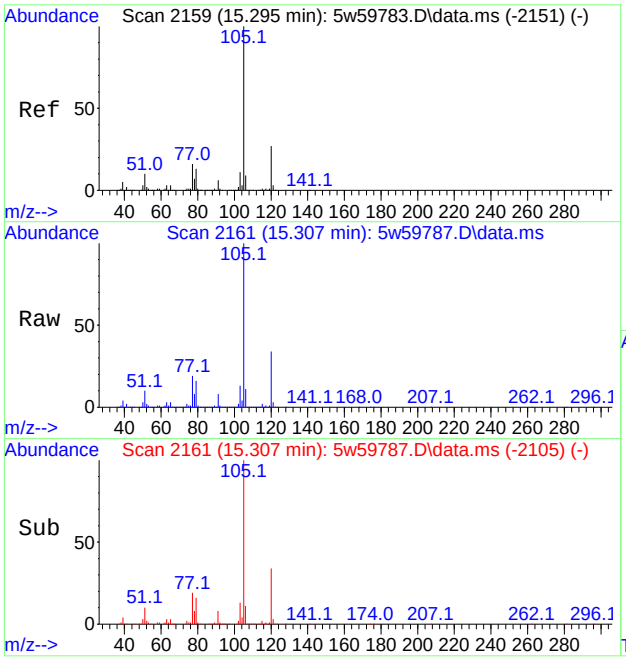


#87
1,2,3-TRICHLOROPROPANE
Concen: 53.62 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6463476

Ion	Ratio	Lower	Upper
75	100		
110	36.9	4.4	64.4

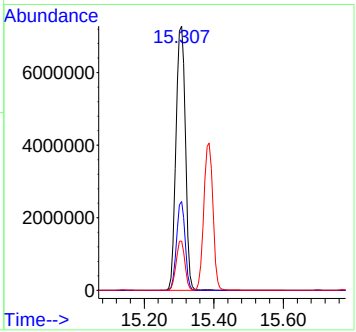


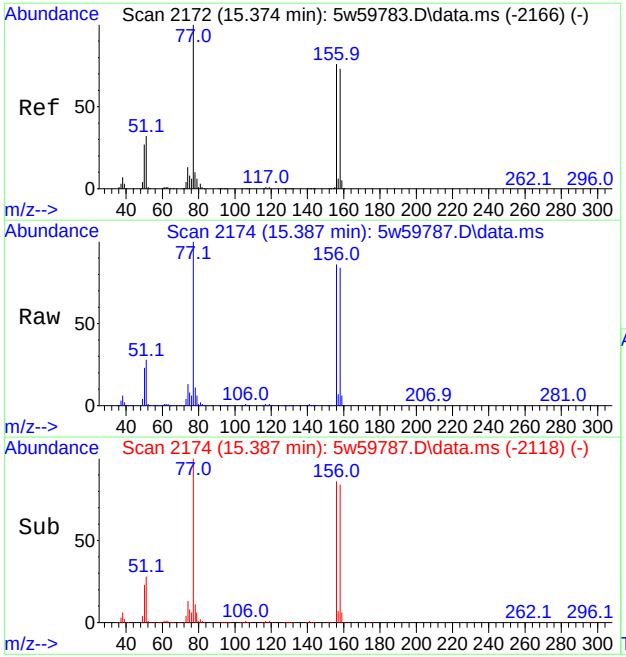


#88
ISOPROPYLBENZENE
Concen: 47.61 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13782072

Ion	Ratio	Lower	Upper
105	100		
120	30.8	0.0	56.0
77	17.4	0.0	45.6

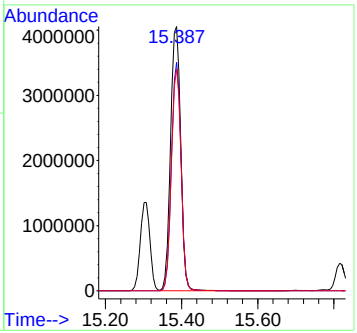


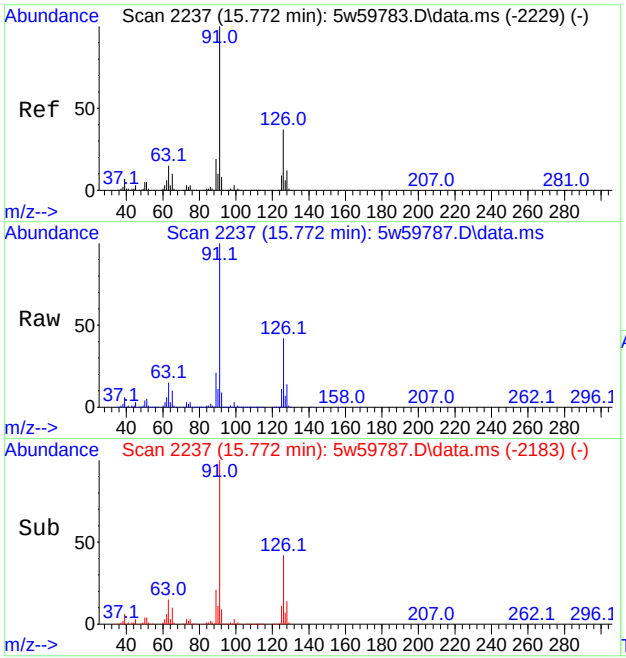


#89
BROMOBENZENE
Concen: 50.72 PPBV
RT: 15.387 min Scan# 2174
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 77 Resp: 7438070

Ion	Ratio	Lower	Upper
77	100		
156	83.1	54.9	101.9
158	80.8	53.5	99.3

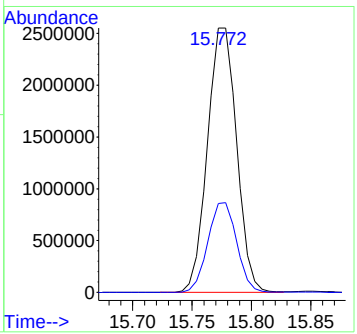


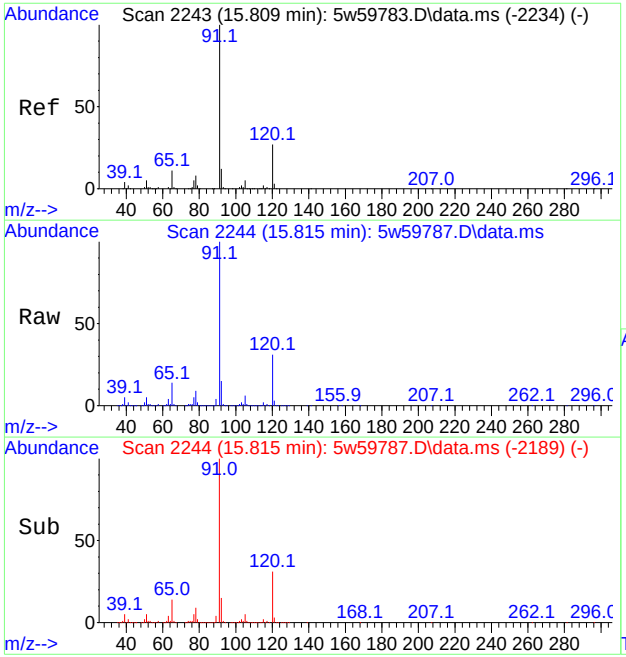


#90
2-CHLOROTOLUENE
Concen: 53.10 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:126 Resp: 4362530

Ion	Ratio	Lower	Upper
126	100		
128	33.5	2.7	62.7

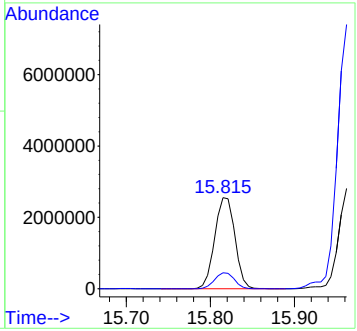


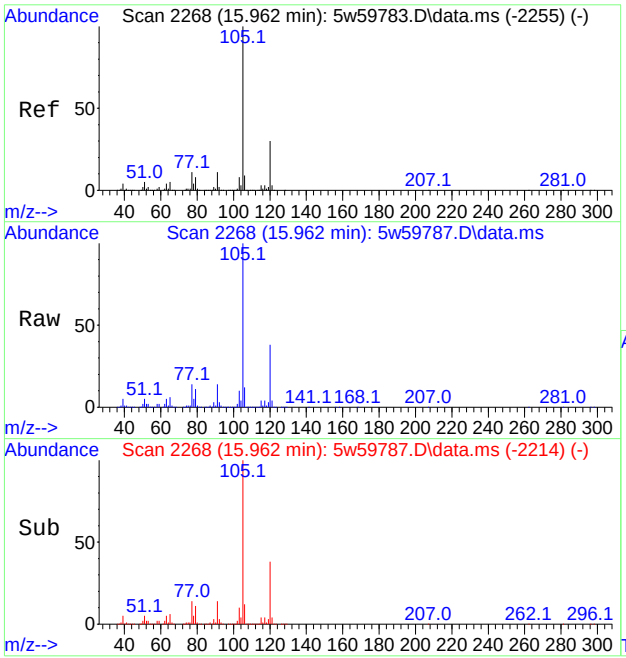


#91
n-PROPYLBENZENE
Concen: 52.74 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:120 Resp: 4269312

Ion	Ratio	Lower	Upper
120	100		
105	17.2	0.0	47.0

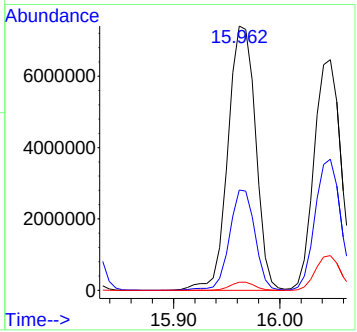


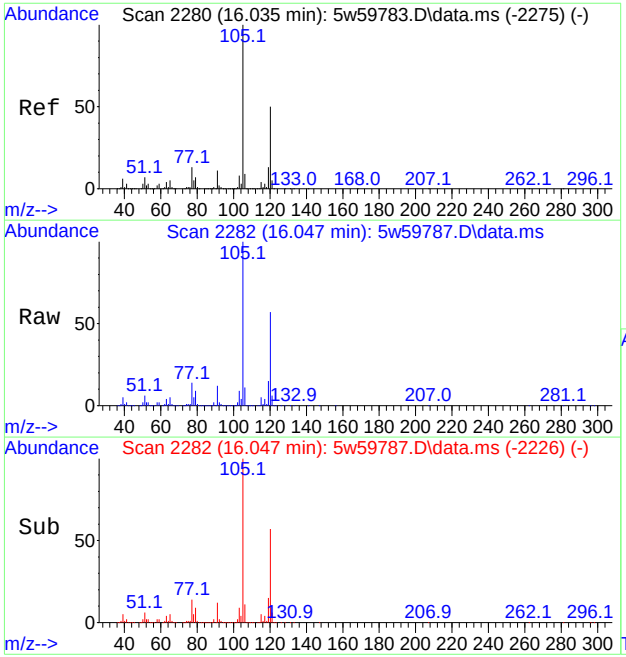


#92
4-ETHYLTOLUENE
Concen: 48.02 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13388380

Ion	Ratio	Lower	Upper
105	100		
120	35.0	0.0	59.9
119	2.8	0.0	32.3

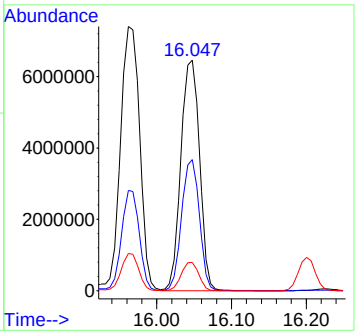


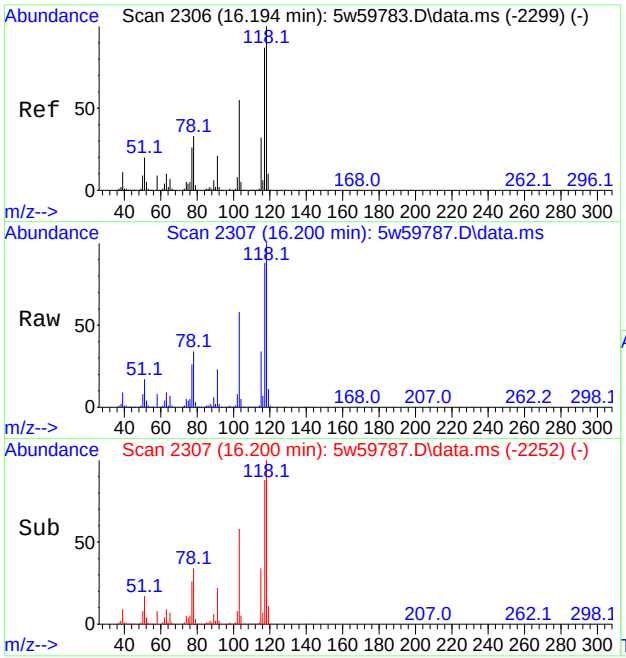


#93
1,3,5-TRIMETHYLBENZENE
Concen: 47.79 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:11253685

Ion	Ratio	Lower	Upper
105	100		
120	54.0	19.4	79.4
91	11.6	0.0	40.8

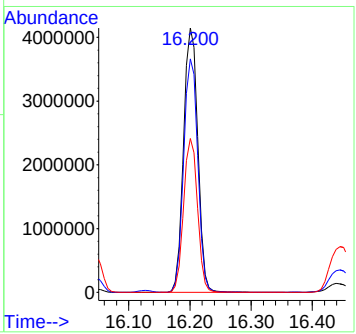


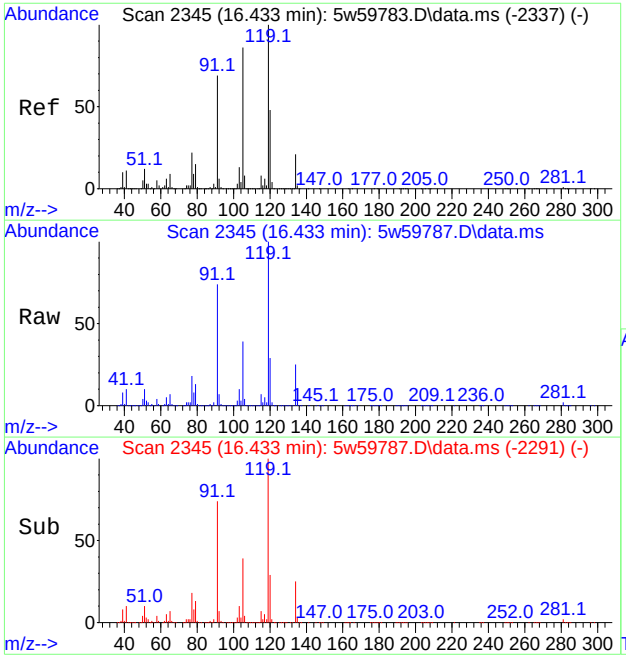


#94
ALPHA-METHYLSTYRENE
Concen: 50.76 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:118 Resp: 6738901

Ion	Ratio	Lower	Upper
118	100		
117	88.0	60.9	113.1
103	56.8	38.6	71.8

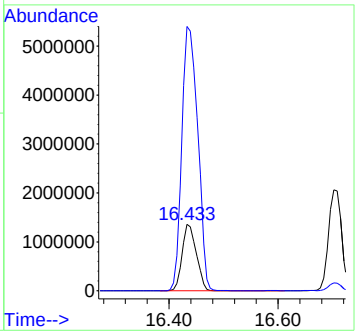


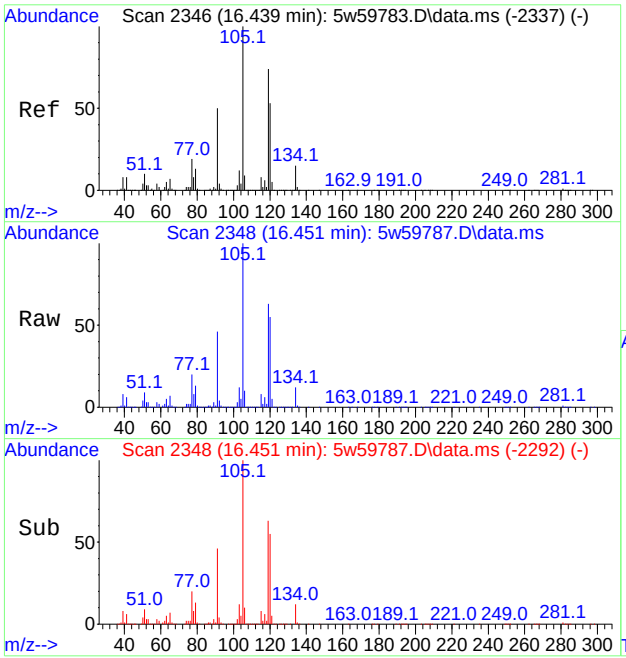


#95
tert-BUTYLBENZENE
Concen: 46.98 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 2429034

Ion	Ratio	Lower	Upper
134	100		
119	449.7	459.3	519.3#

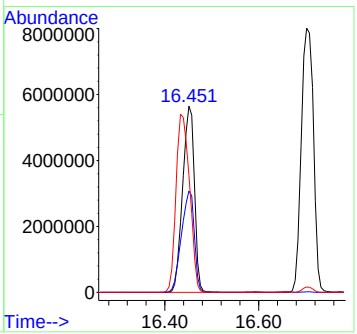


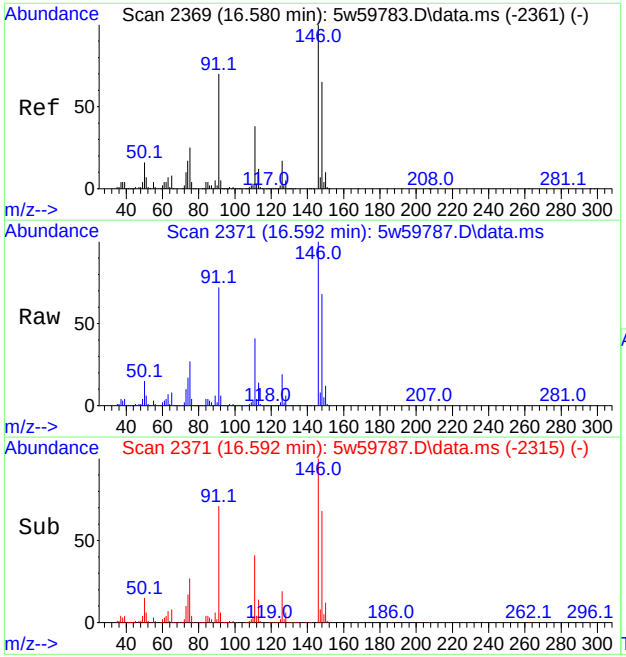


#96
1,2,4-TRIMETHYLBENZENE
Concen: 42.68 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9912721

Ion	Ratio	Lower	Upper
105	100		
120	59.1	25.7	85.7
119	110.2	75.7	135.7

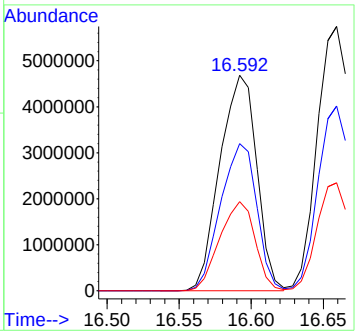


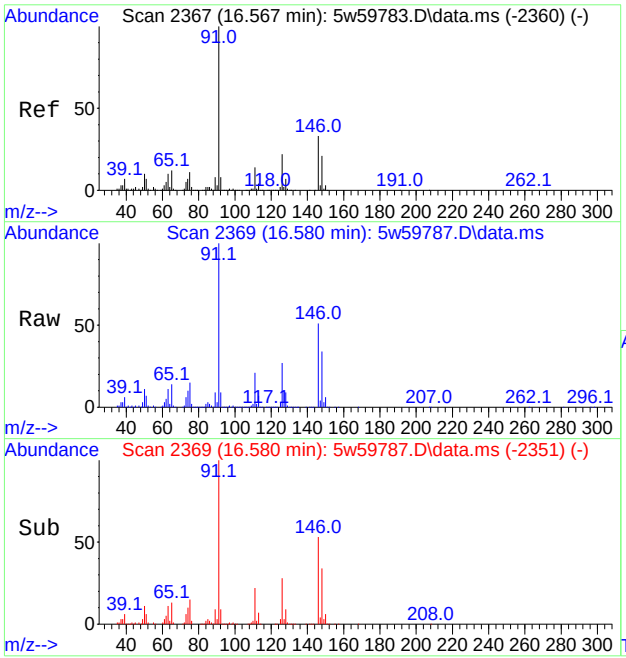


#97
m-DICHLOROBENZENE
Concen: 44.49 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 8350505

Ion	Ratio	Lower	Upper
146	100		
148	66.9	34.8	94.8
111	39.8	8.2	68.2

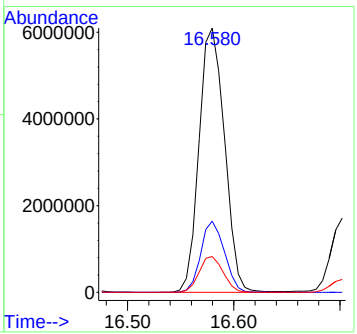


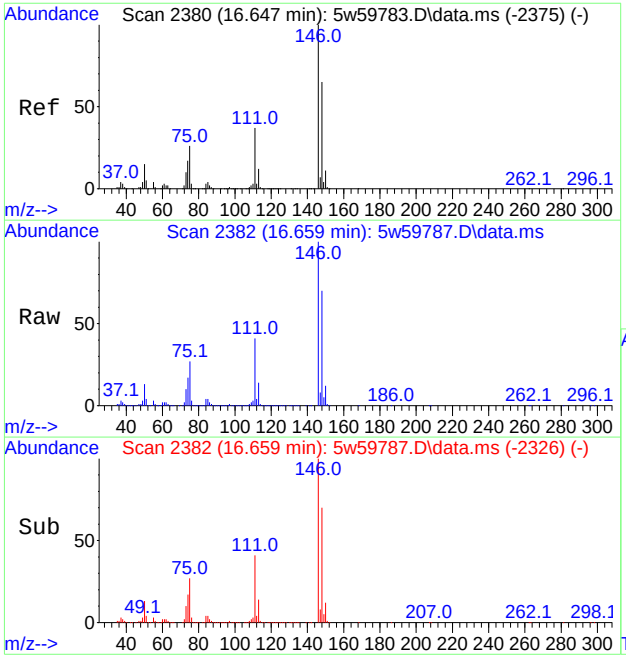


#98
BENZYL CHLORIDE
Concen: 42.40 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:10182019

Ion	Ratio	Lower	Upper
91	100		
126	25.0	0.0	51.7
65	12.9	0.0	42.2

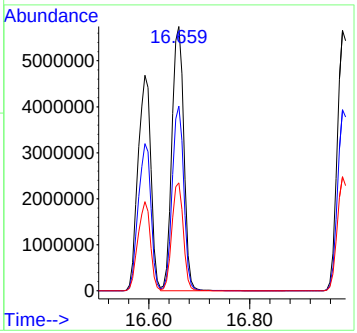


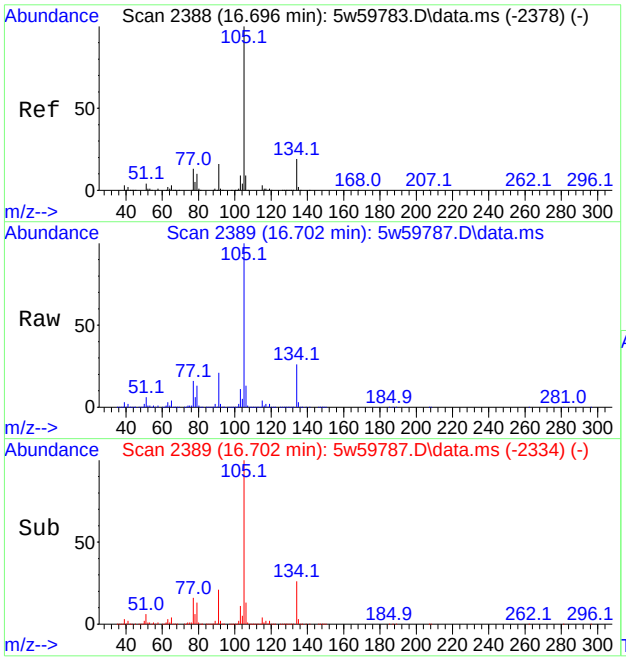


#99
p-DICHLOROBENZENE
Concen: 51.05 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9434738

Ion	Ratio	Lower	Upper
146	100		
148	67.8	34.6	94.6
111	39.2	6.7	66.7

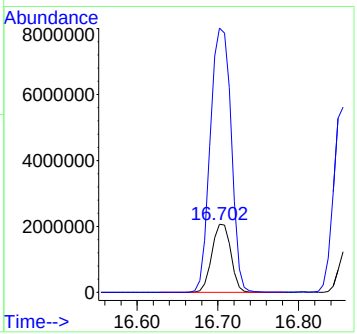


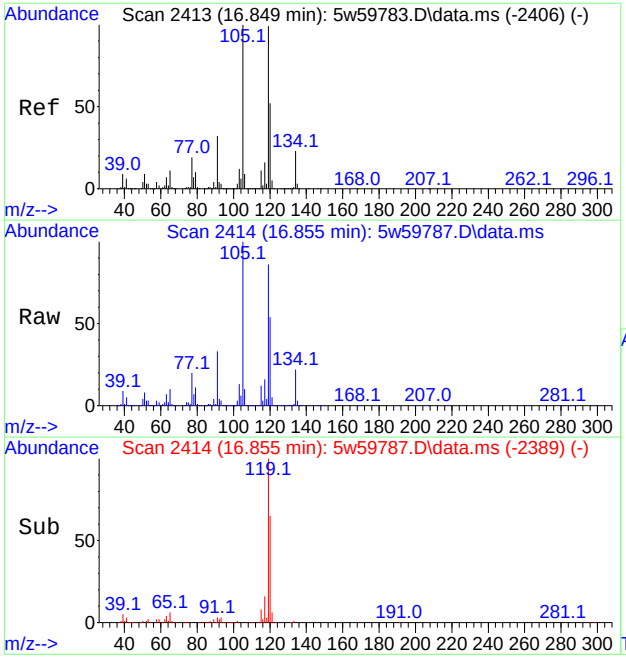


#100
sec-BUTYLBENZENE
Concen: 52.25 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3389691

Ion	Ratio	Lower	Upper
134	100		
105	427.3	502.5	562.5#

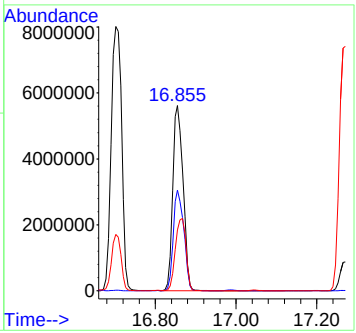


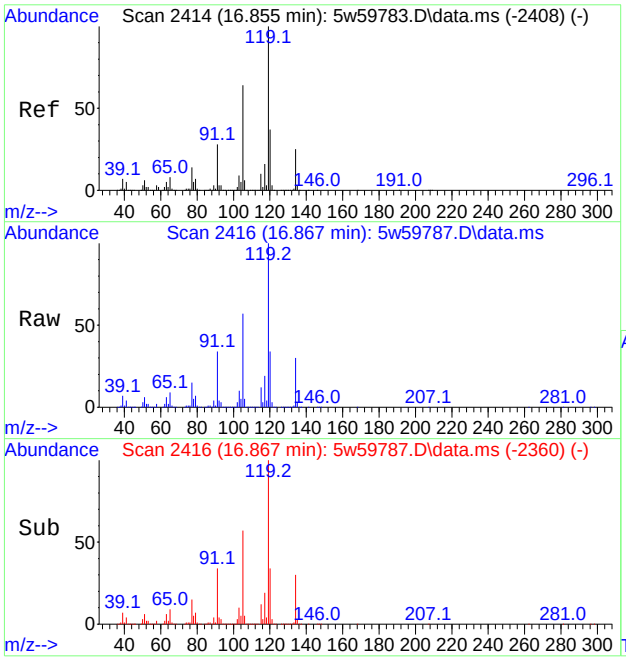


#101
1,2,3-TRIMETHYLBENZENE
Concen: 41.33 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9964483

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	40.0	7.4	67.4

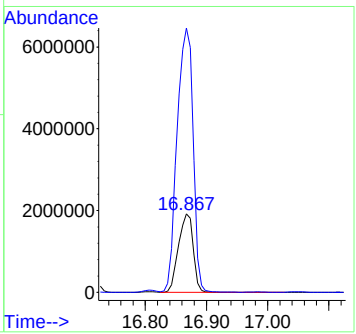


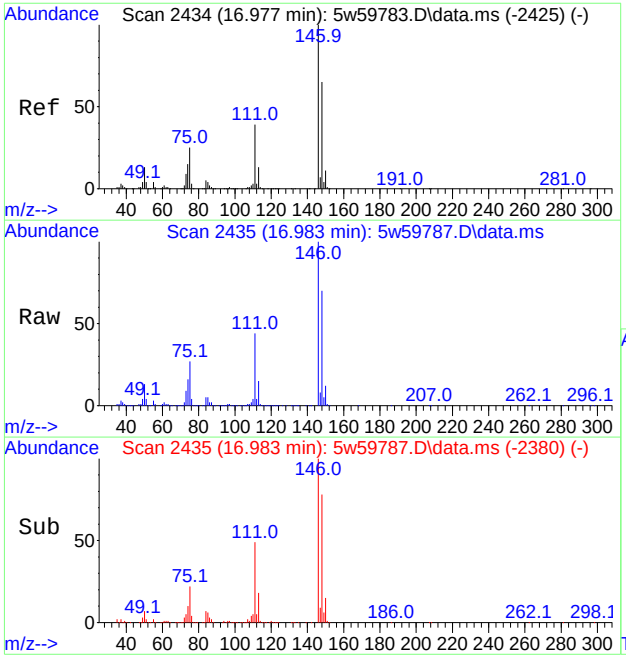


#102
p-ISOPROPYLTOLUENE
Concen: 42.88 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3209884

Ion	Ratio	Lower	Upper
134	100		
119	366.4	377.7	437.7#

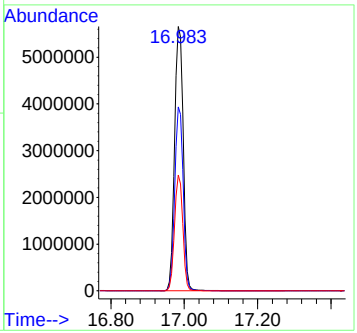


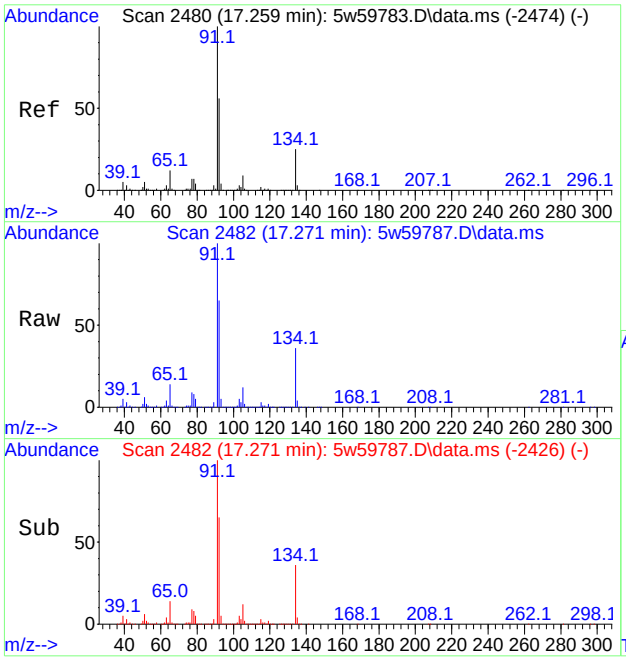


#103
o-DICHLOROBENZENE
Concen: 51.54 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9264152

Ion	Ratio	Lower	Upper
146	100		
148	67.6	34.3	94.3
111	41.8	9.2	69.2

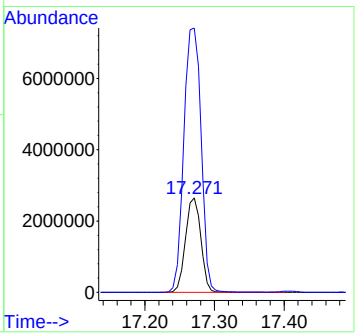


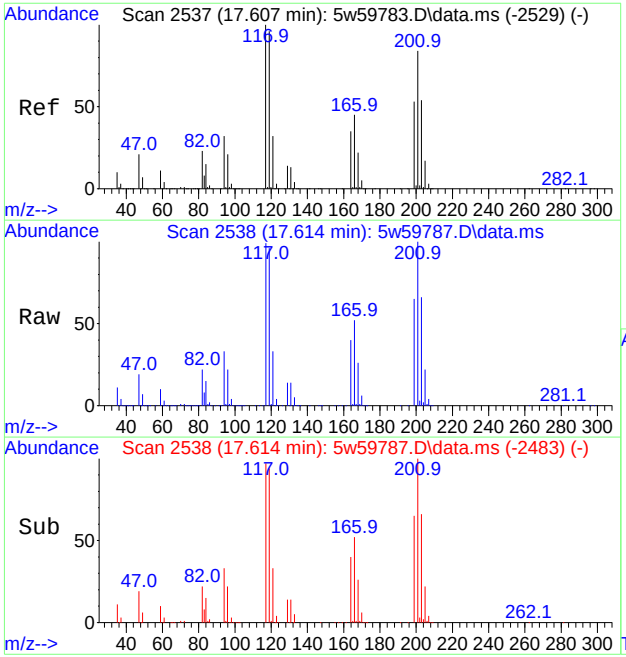


#104
n-BUTYLBENZENE
Concen: 53.04 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 4068110

Ion	Ratio	Lower	Upper
134	100		
91	315.5	363.1	423.1#

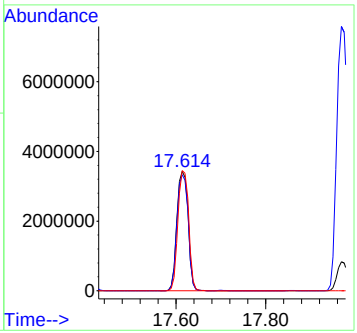


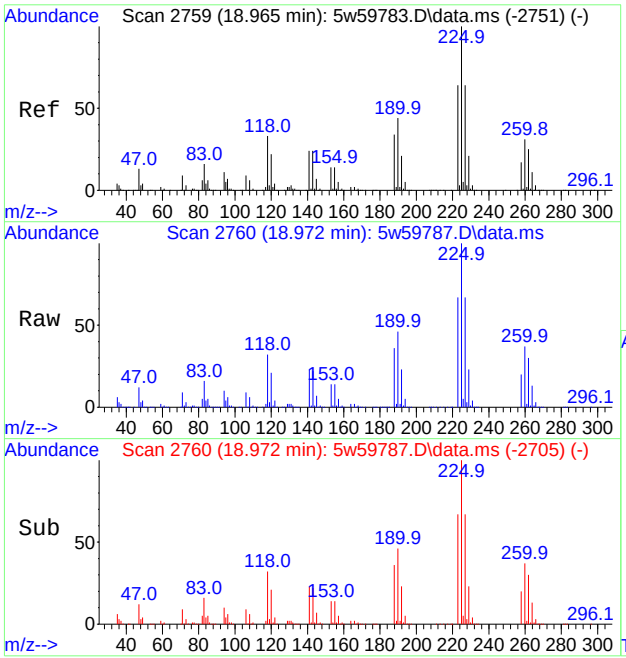


#105
HEXACHLOROETHANE
Concen: 48.19 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 5943910

Ion	Ratio	Lower	Upper
117	100		
119	96.7	67.2	124.8
201	96.6	61.1	113.5

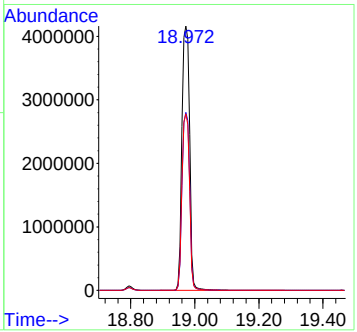


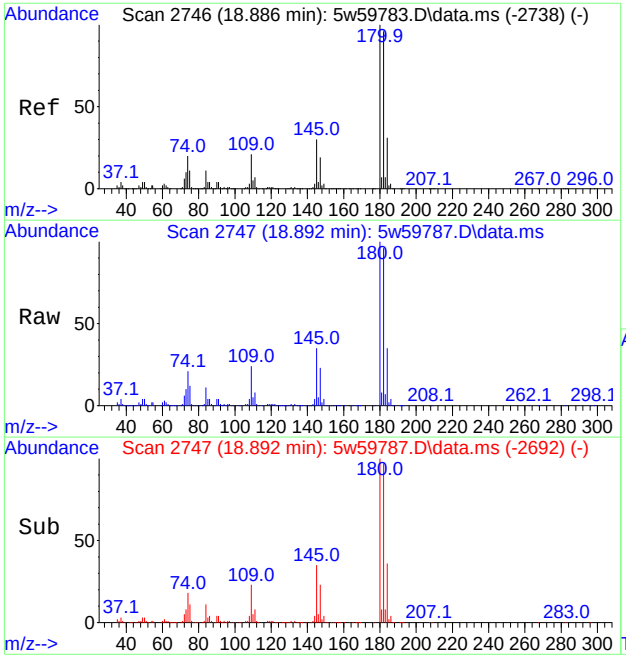


#106
HEXACHLOROBUTADIENE
Concen: 42.04 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:225 Resp: 6941797

Ion	Ratio	Lower	Upper
225	100		
227	66.3	34.2	94.2
223	65.7	33.3	93.3

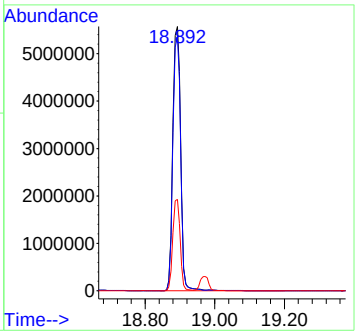


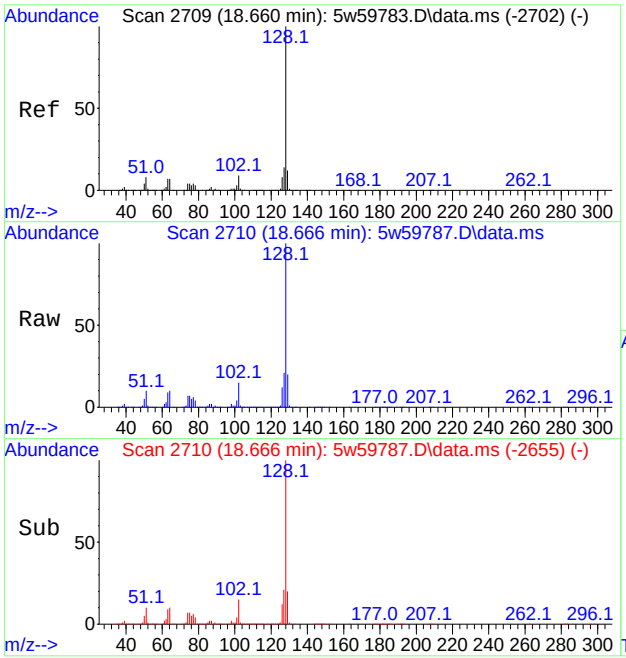


#107
1,2,4-TRICHLOROBENZENE
Concen: 50.18 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:180 Resp: 8668660

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	32.7	0.0	59.4

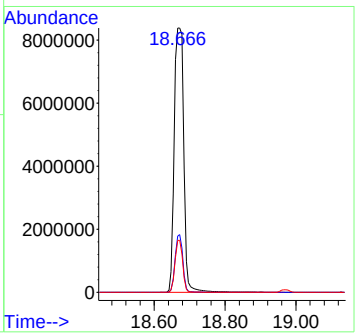


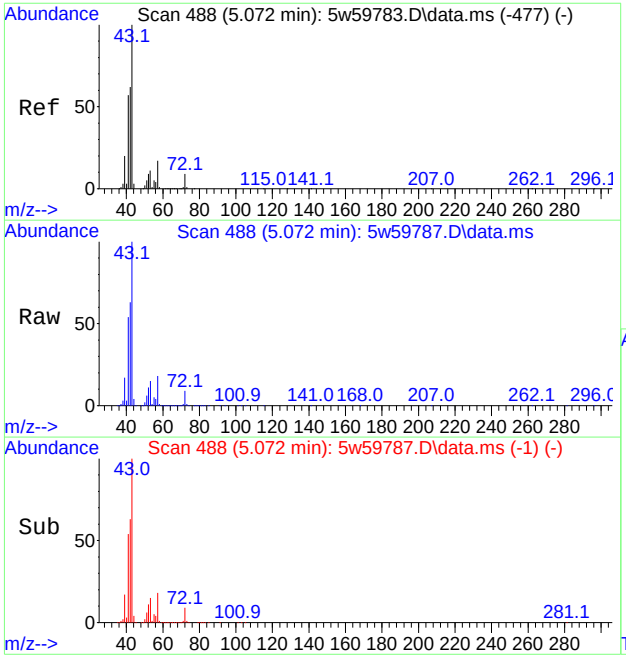


#108
NAPHTHALENE
Concen: 41.73 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:128 Resp:15644412

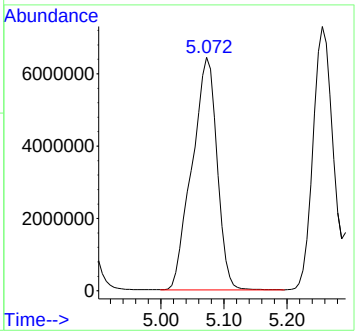
Ion	Ratio	Lower	Upper
128	100		
127	17.9	0.0	43.3
129	16.0	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 64.59 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:TIC Resp:17678397



Manual Integration Approval Summary

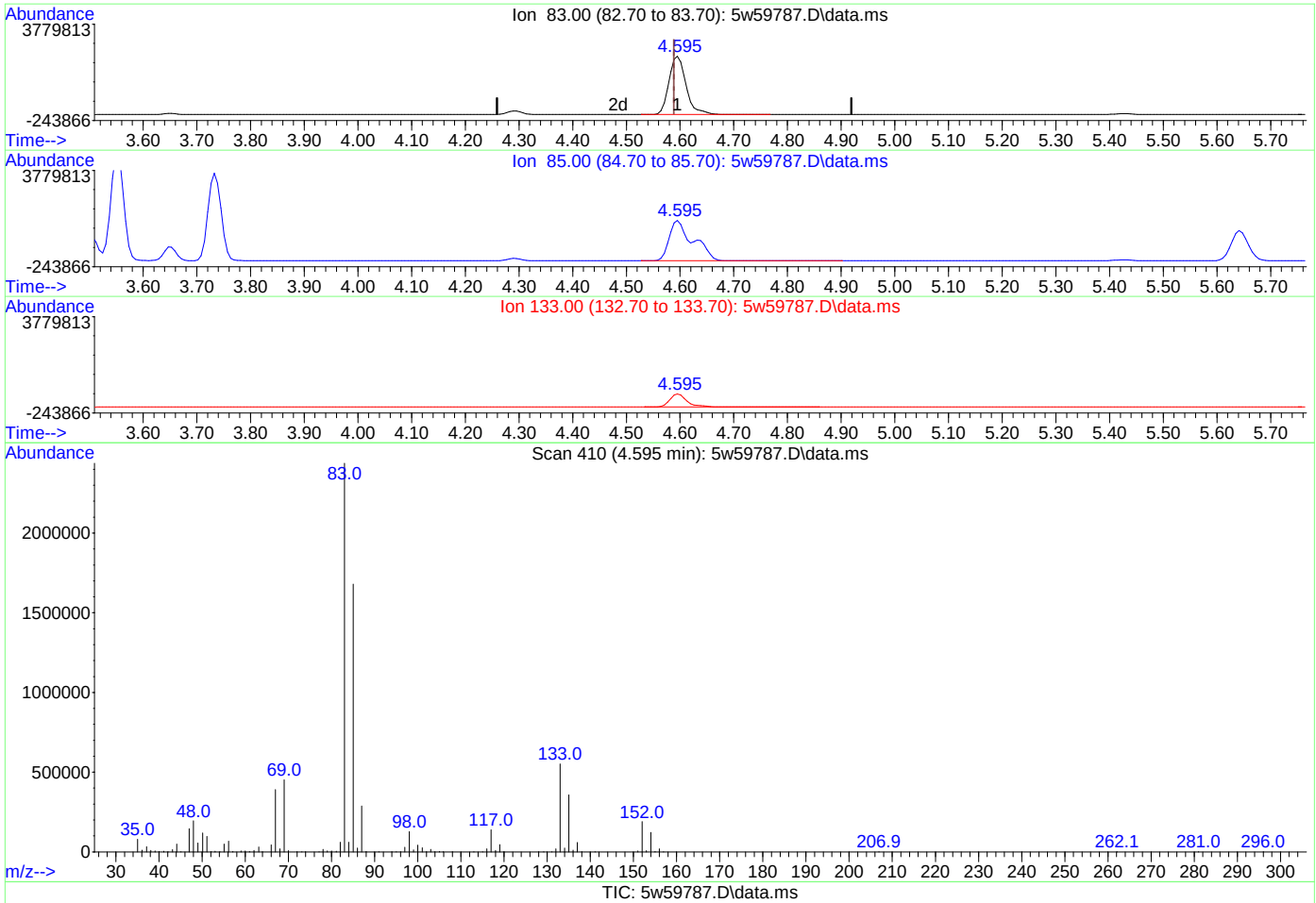
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59787.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 10:24 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV

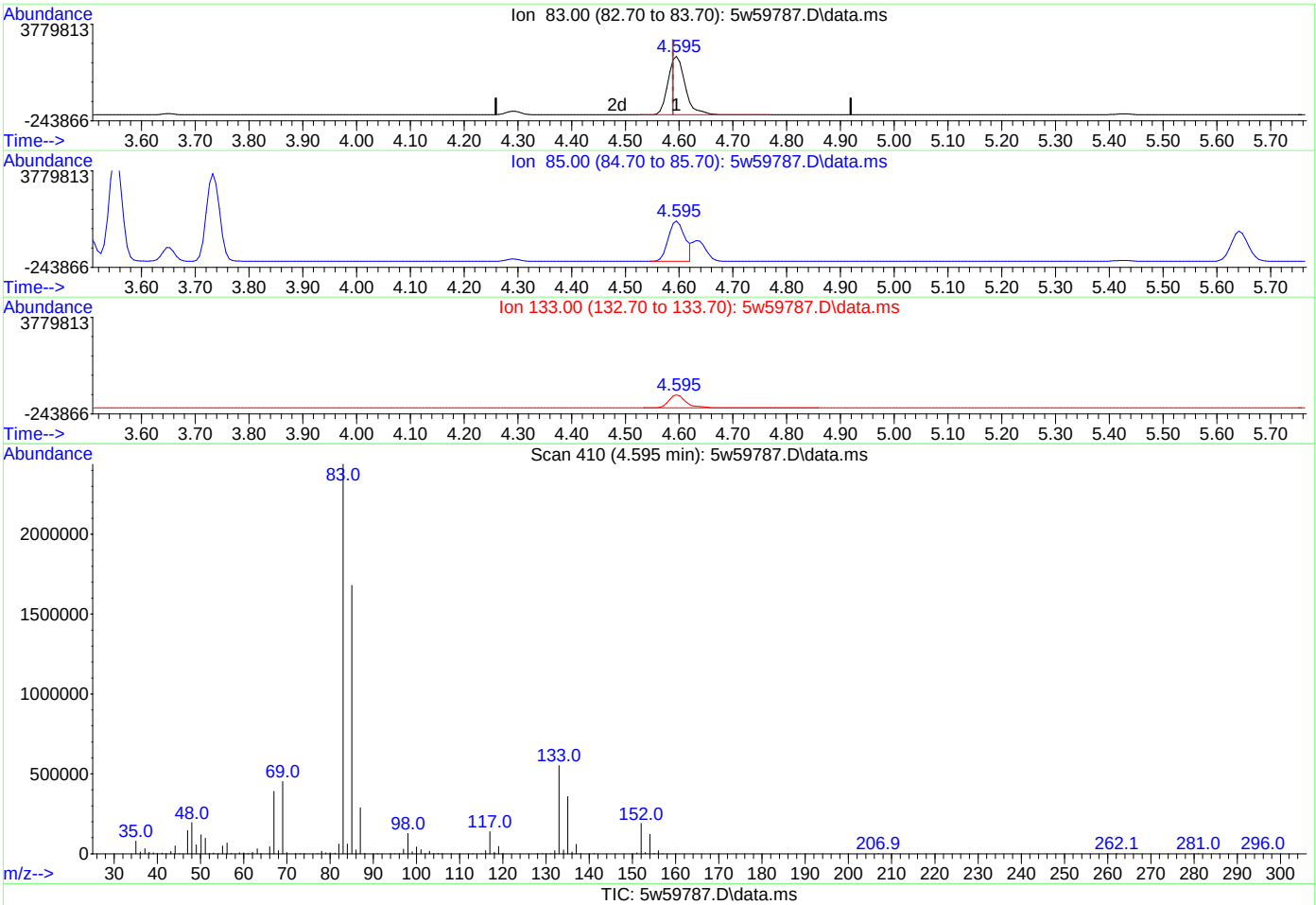
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	96.25#
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV m

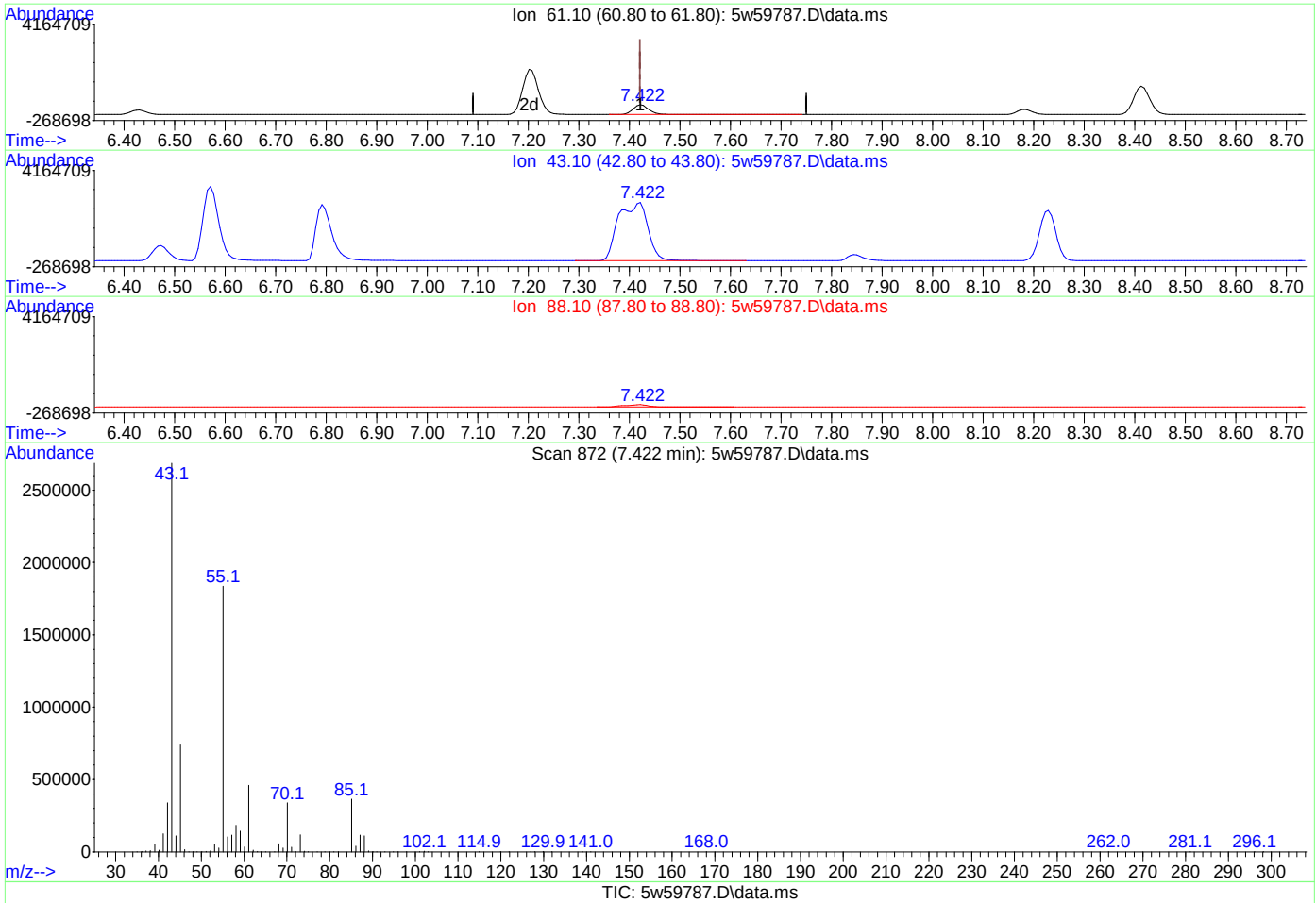
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	67.57
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV

response 1009100

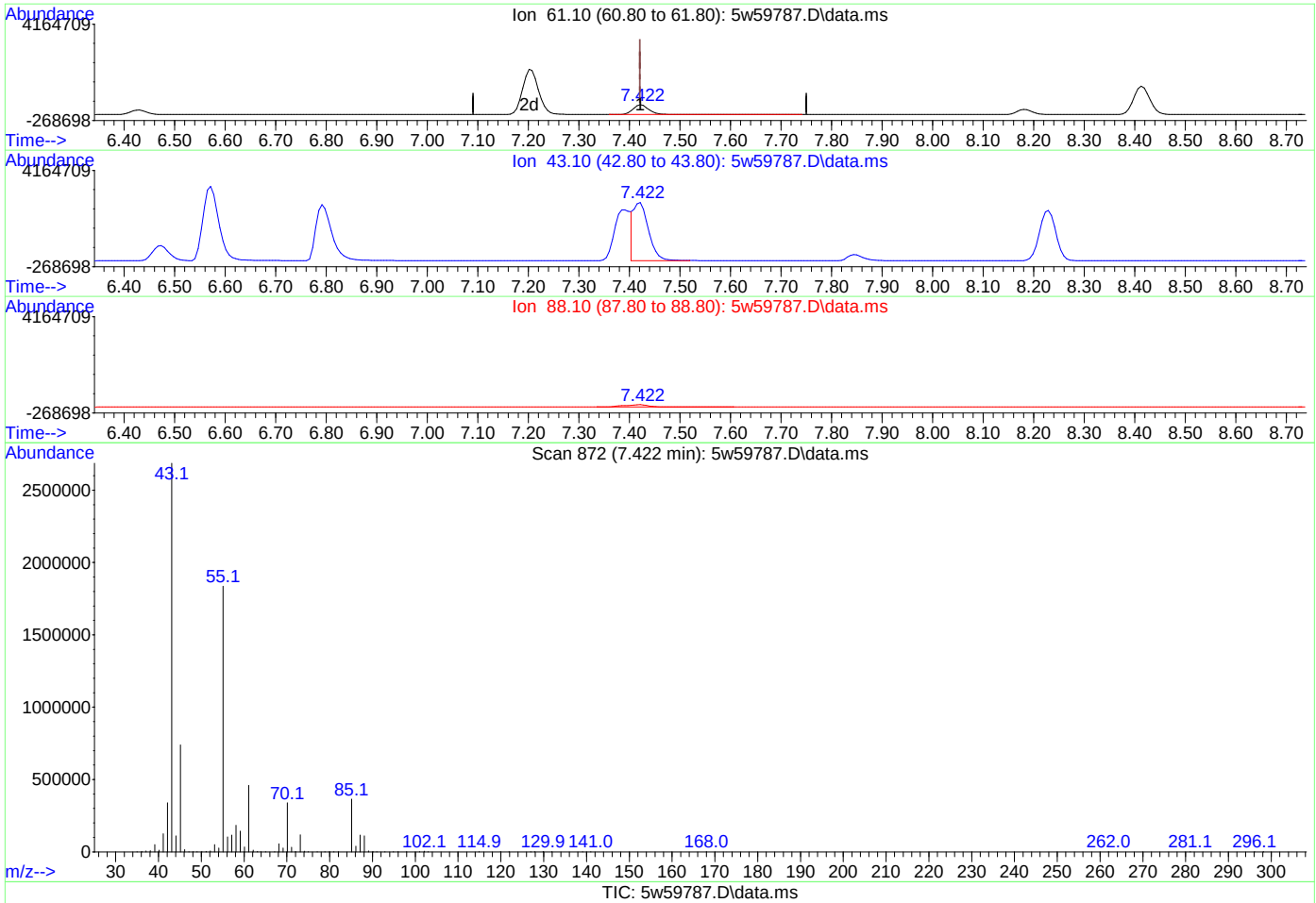
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1080.14#
88.10	34.50	36.83
0.00	0.00	0.00

5W59787.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV m

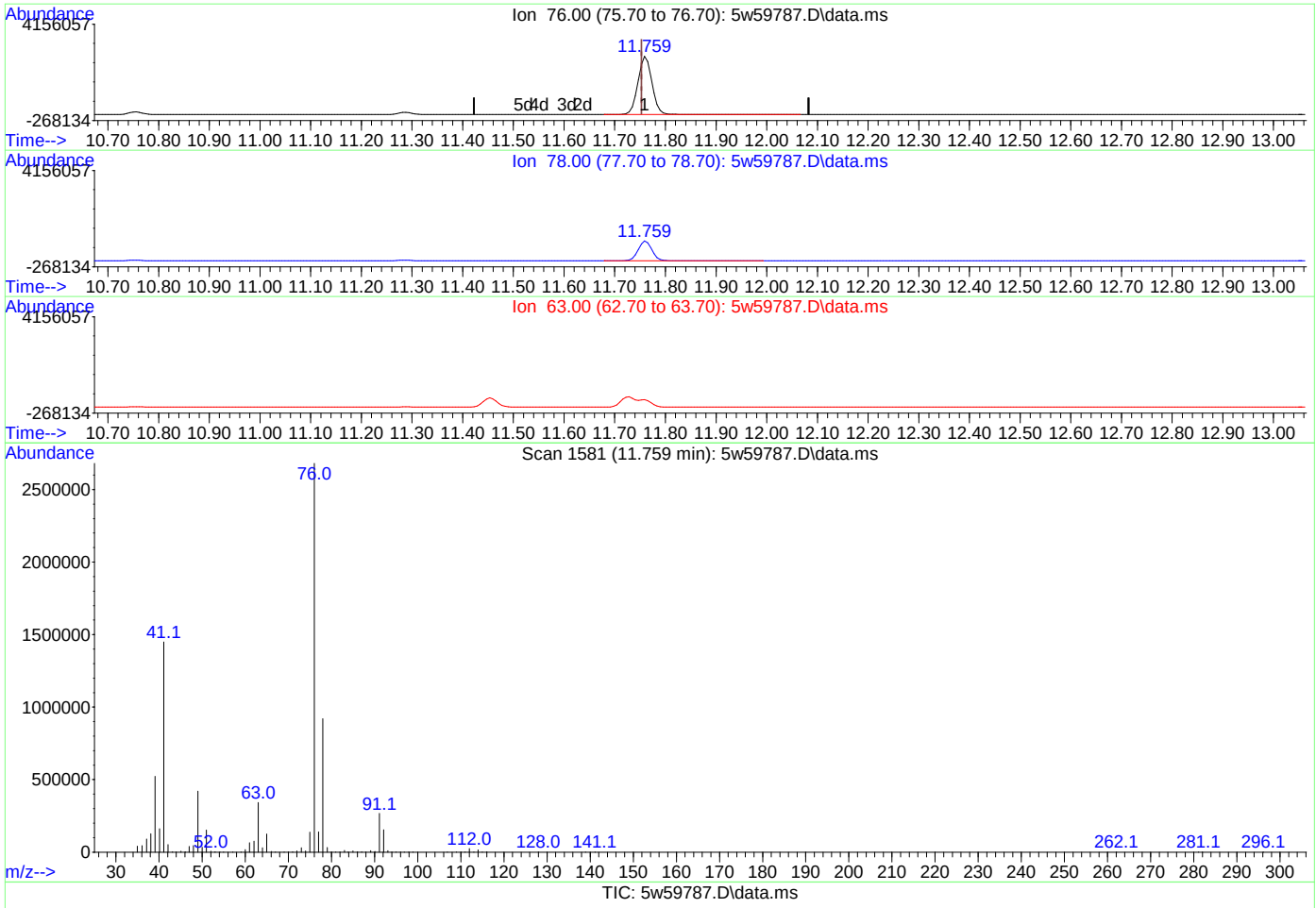
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	545.04#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV

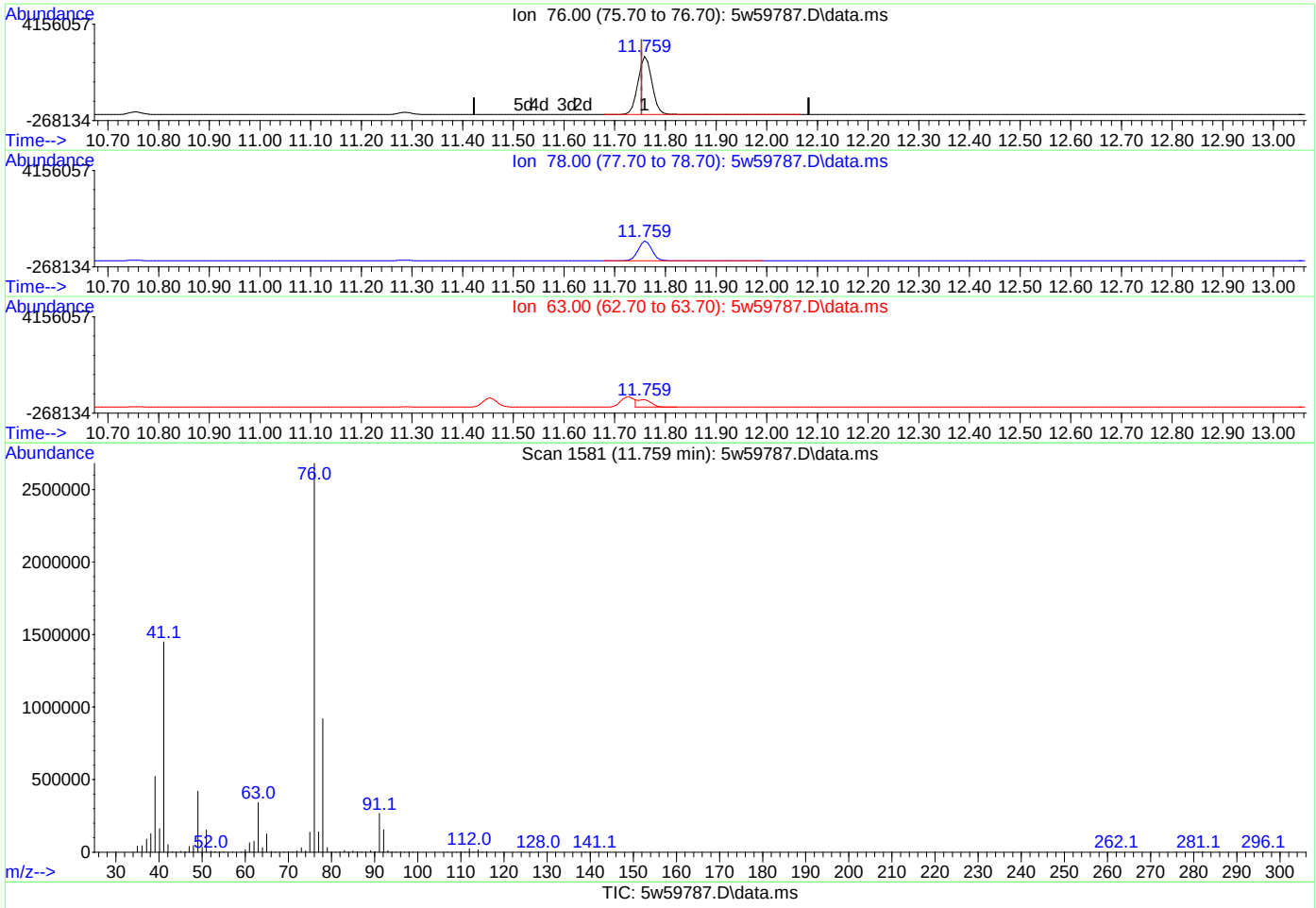
response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV m

response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	12.12
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	498212	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2163467	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1167536	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	498212	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1483789	10.17	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.70%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	415215	12.16	PPBV	100
3) FREON 152A	3.445	65	342794	9.28	PPBV	99
4) CHLORODIFLUOROMETHANE	3.476	67	168320	10.89	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	800294	10.34	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.549	85	1577776	11.07	PPBV	99
7) PROPYLENE	3.500	41	381437	9.97	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1137041	9.85	PPBV	100
9) FREON 114	3.732	85	1508684	11.57	PPBV	99
10) CHLOROMETHANE	3.665	52	156659	10.00	PPBV	98
11) VINYL CHLORIDE	3.818	62	498882	10.34	PPBV	99
12) 1,3-BUTADIENE	3.910	54	299983	10.32	PPBV	99
13) n-BUTANE	3.947	43	491620	10.35	PPBV	99
14) BROMOMETHANE	4.106	94	546593	10.65	PPBV	100
15) CHLOROETHANE	4.228	64	217760	9.25	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1122027	10.94	PPBV	100
17) ACETONITRILE	4.479	41	273749	10.09	PPBV	100
18) ACROLEIN	4.571	56	174000	11.29	PPBV	98
19) FREON 123	4.589	83	1172331	9.88	PPBV	73
20) FREON 123A	4.632	117	658691	9.67	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1322128	10.86	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	957946	9.81	PPBV	99
23) ACETONE	4.675	58	182115	9.32	PPBV	97
24) PENTANE	5.072	42	485024	9.56	PPBV	99
25) IODOMETHANE	5.256	142	1656951	10.92	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	514235	9.62	PPBV	99
27) CARBON DISULFIDE	5.672	76	1333722	9.53	PPBV	99
28) ETHANOL	4.314	45	175873	10.75	PPBV	99
29) BROMOETHENE	4.479	106	523753	10.35	PPBV	100
30) ACRYLONITRILE	5.042	52	335497	10.15	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	460743	9.22	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	235062	9.77	PPBV	98
33) FREON 113	5.641	151	936508	10.53	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	523452	9.34	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.372	59	1150749	11.52	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1424107	10.10	PPBV	100
37) TETRAHYDROFURAN	7.856	72	236078	12.20	PPBV	99
38) HEXANE	7.379	57	814752	10.24	PPBV	100
39) VINYL ACETATE	6.565	86	92915	11.55	PPBV #	94
40) 1,1-DICHLOROETHANE	6.424	63	1012856	9.85	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	231727	12.04	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.195	96	576053	9.43	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	255743	12.23	PPBV	99
44) ETHYL ACETATE	7.415	61	170036	11.56	PPBV #	1
45) METHYL ACRYLATE	7.403	55	1019941	12.95	PPBV	100
46) CHLOROFORM	7.477	83	1206541	10.89	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	967097	10.74	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1259183	10.90	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1361951	10.85	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	857881	11.15	PPBV		100
52)	BENZENE	8.853	78	1601042	11.05	PPBV		100
53)	CYCLOHEXANE	9.104	84	624324	10.78	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	314676	10.75	PPBV		98
55)	TRICHLOROETHYLENE	9.887	95	782511	10.60	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	634380	9.43	PPBV		100
57)	DIBROMOMETHANE	9.630	174	826704	10.02	PPBV		100
58)	ETHYL ACRYLATE	9.679	55	1259813	11.98	PPBV		100
59)	BROMODICHLOROMETHANE	9.850	83	1390089	10.86	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2555629	11.14	PPBV		100
61)	1,4-DIOXANE	9.899	88	390530	11.81	PPBV	#	89
62)	HEPTANE	10.187	43	861635	10.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	552495	11.70	PPBV		100
64)	METHYL ISOBUTYL KETONE	10.792	58	532725	12.46	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	10.749	75	990327	9.61	PPBV		100
66)	TOLUENE	11.722	92	1196655	11.05	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	950675	10.77	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	940495	9.66	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	646298	10.99	PPBV		100
71)	2-HEXANONE	12.010	58	770539	12.62	PPBV		99
72)	ETHYL METHACRYLATE	12.022	69	966723	11.99	PPBV		99
73)	TETRACHLOROETHYLENE	12.872	164	915172	11.49	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.150	129	1566467	11.39	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	1272221	11.89	PPBV		100
76)	OCTANE	12.744	43	1249572	11.27	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1017442	11.62	PPBV		99
78)	CHLOROBENZENE	13.582	112	1647850	11.30	PPBV		100
79)	ETHYLBENZENE	13.986	91	2597260	11.61	PPBV		100
80)	m,p-XYLENE	14.182	106	2050019	23.24	PPBV		100
81)	o-XYLENE	14.677	106	1016013	12.30	PPBV		99
82)	STYRENE	14.567	104	1531560	11.88	PPBV		100
83)	NONANE	14.934	43	1246325	11.11	PPBV		100
84)	BROMOFORM	14.249	173	1671641	12.32	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1743965	12.14	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1202955	10.42	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2910298	11.51	PPBV		100
89)	BROMOBENZENE	15.374	77	1429493	10.87	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	779180	11.13	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	807953	11.92	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2990249	12.93	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2480601	11.54	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.194	118	1177774	11.12	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	570968	13.08	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2612198	13.02	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1916772	12.50	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2335931	12.63	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1889997	11.46	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	670798	12.13	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2623929	12.36	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	794033	12.67	PPBV		100
103)	o-DICHLOROBENZENE	16.977	146	1807576	11.75	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	753590	12.27	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1153176	10.90	PPBV		100
106)	HEXACHLOROBUTADIENE	18.966	225	1732361	12.11	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1717833	12.05	PPBV		99
108)	NAPHTHALENE	18.660	128	3898122	12.54	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	3177953	10.55	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

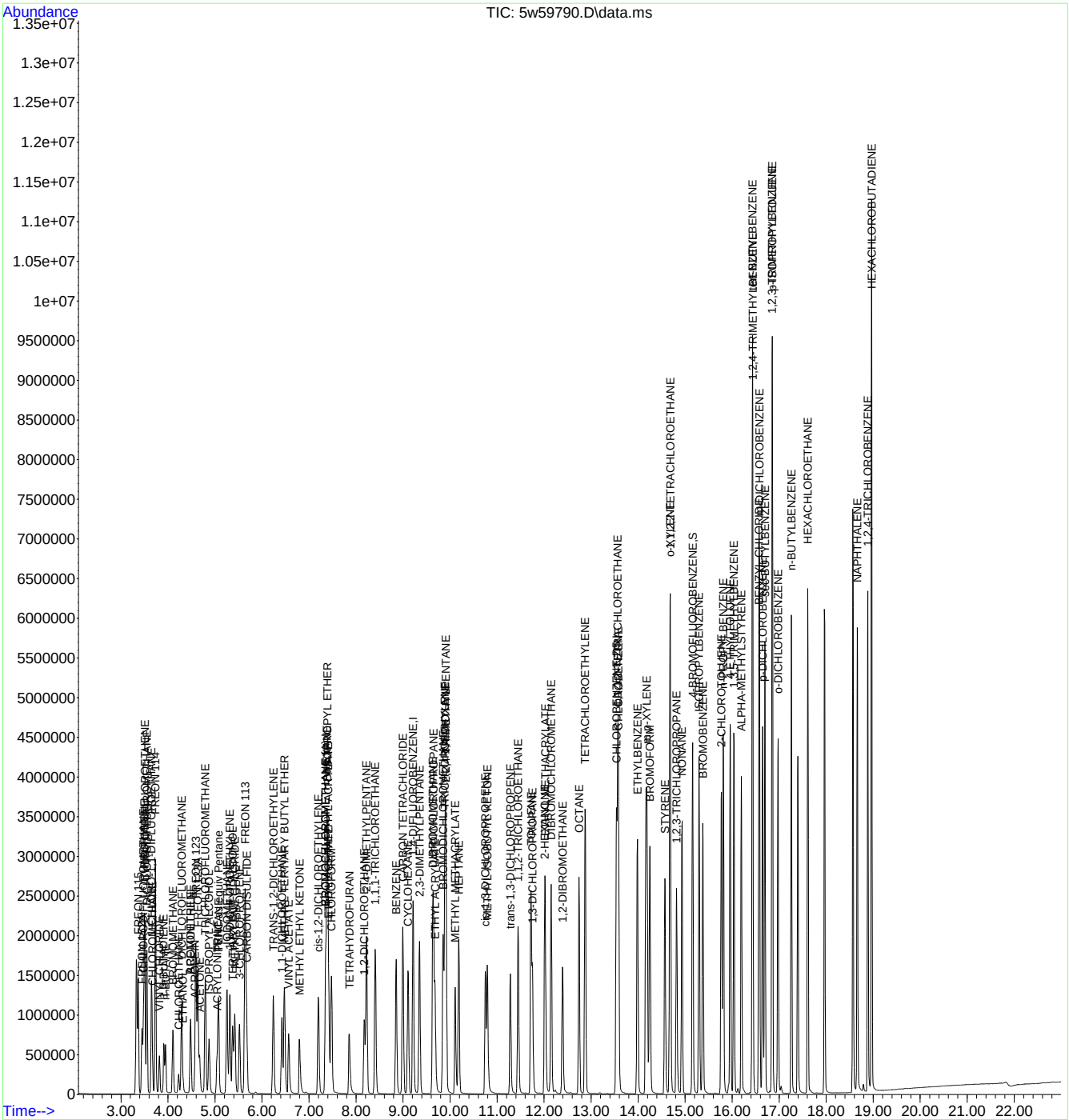
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

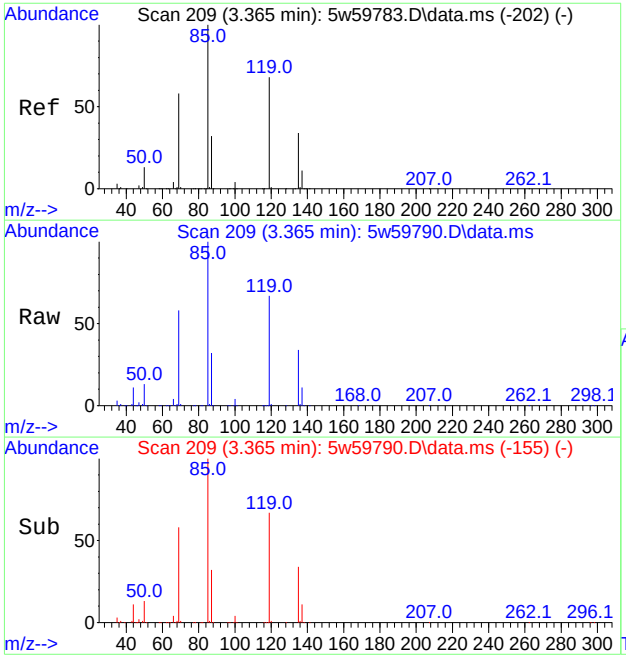
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

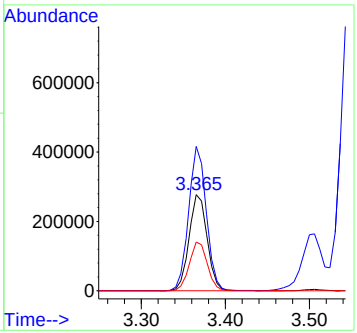


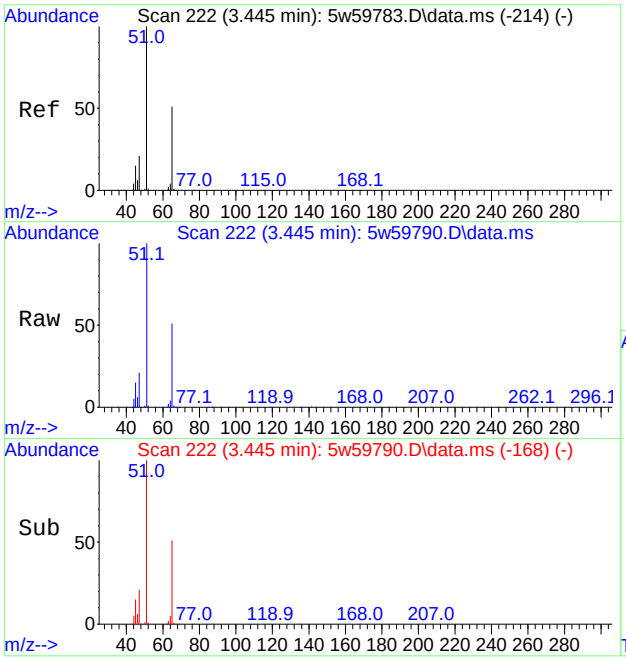


#2
FREON 115
Concen: 12.16 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:119 Resp: 415215

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.4	20.6	80.6

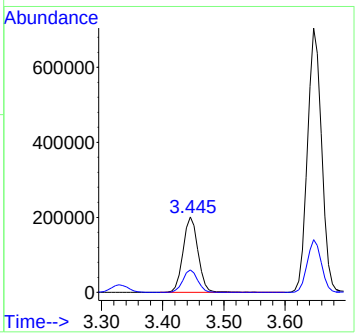


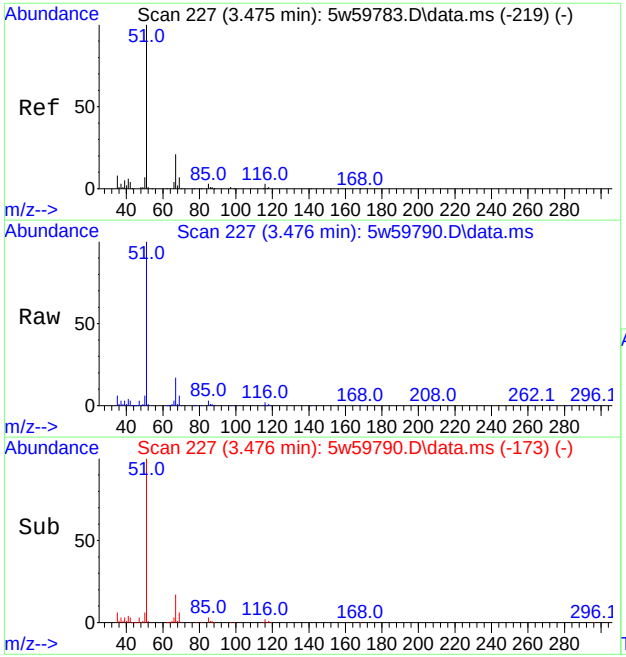


#3
FREON 152A
Concen: 9.28 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 342794

Ion	Ratio	Lower	Upper
65	100		
45	29.5	0.0	60.0

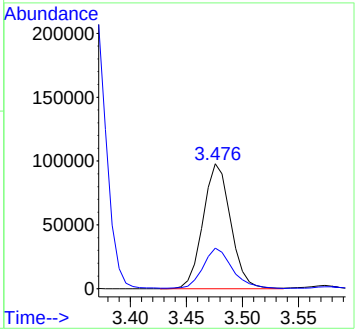


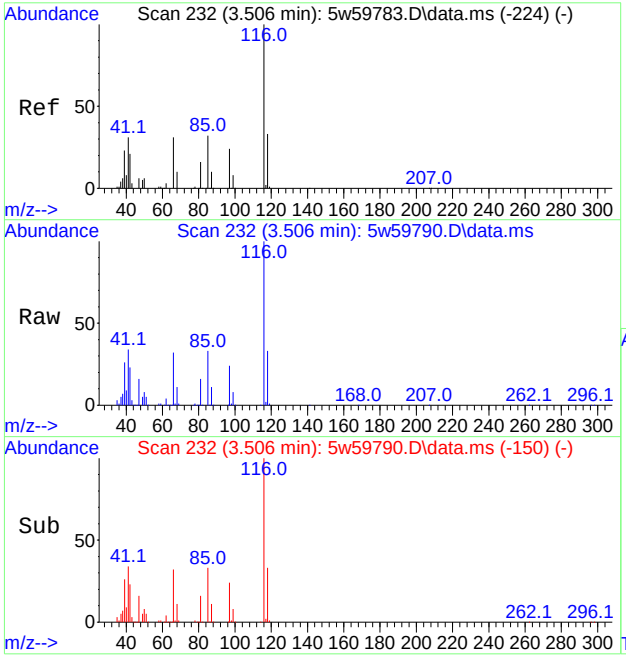


#4
CHLORODIFLUOROMETHANE
Concen: 10.89 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 168320

Ion	Ratio	Lower	Upper
67	100		
69	32.5	1.0	61.0

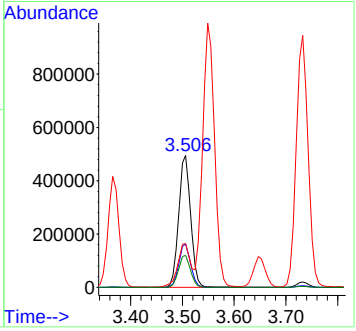


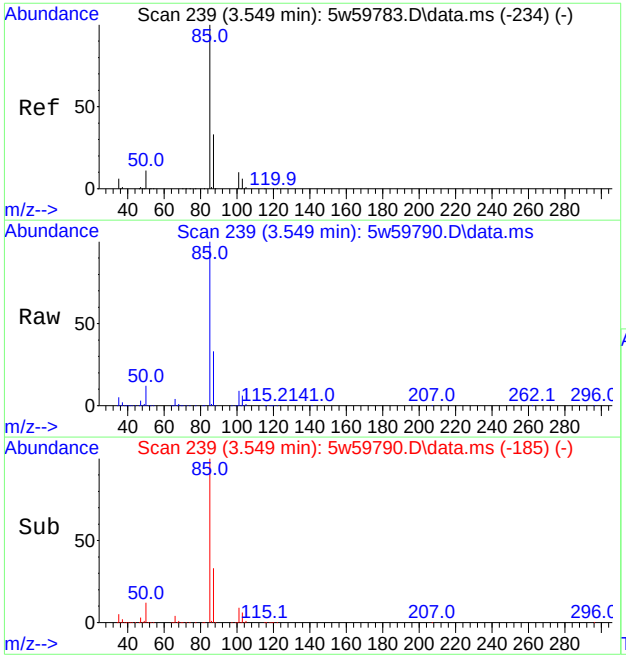


#5
CHLOROTRIFLUOROETHENE
Concen: 10.34 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:116 Resp: 800294

Ion	Ratio	Lower	Upper
116	100		
118	32.6	22.9	42.5
85	37.1	23.7	44.1
97	24.1	17.0	31.6

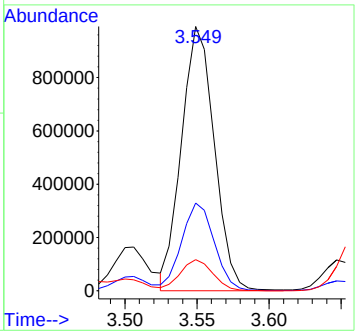


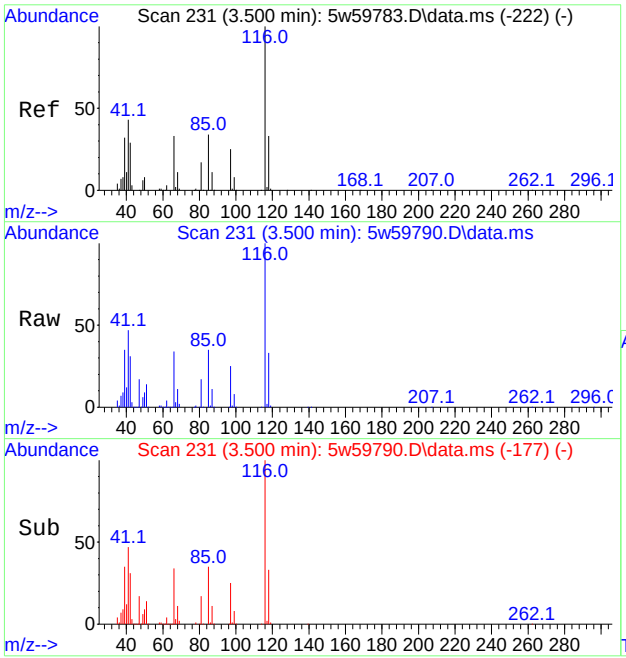


#6
DICHLORODIFLUOROMETHANE
Concen: 11.07 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1577776

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

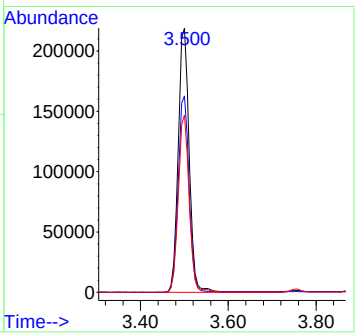


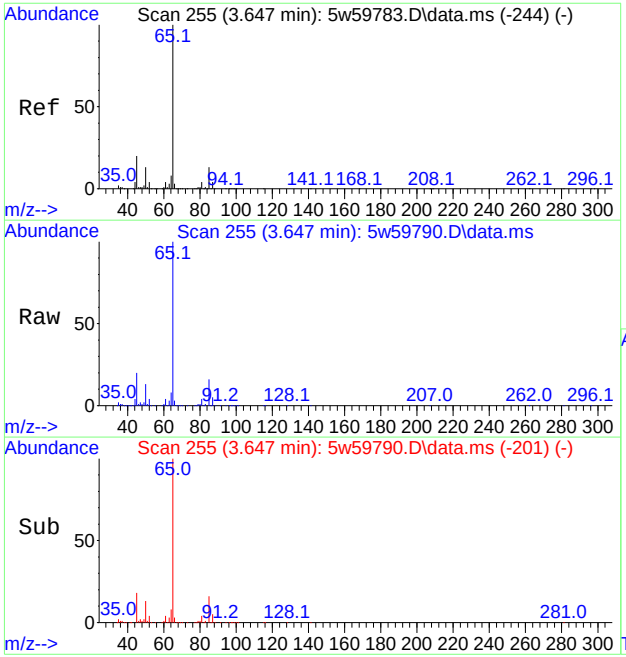


#7
PROPYLENE
Concen: 9.97 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 381437

Ion	Ratio	Lower	Upper
41	100		
39	75.5	45.1	105.1
42	66.3	36.3	96.3

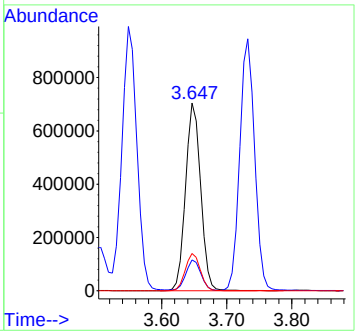


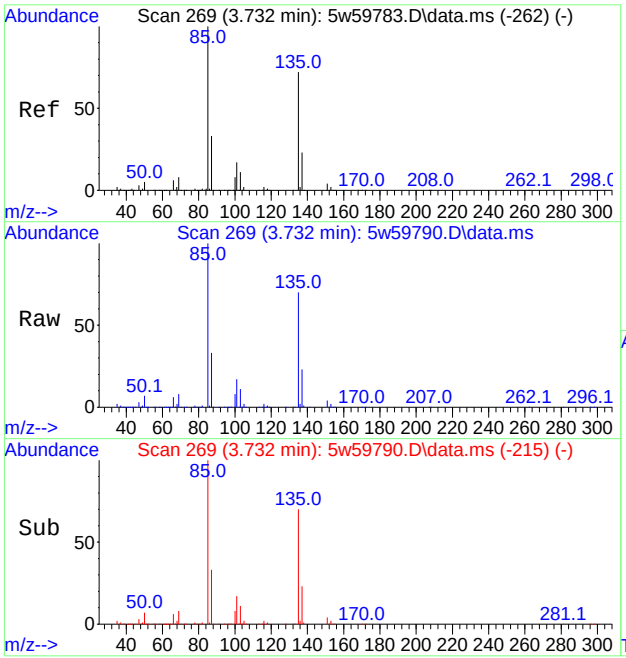


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 9.85 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 1137041

Ion	Ratio	Lower	Upper
65	100		
85	16.5	11.5	21.3
45	20.0	14.0	26.0

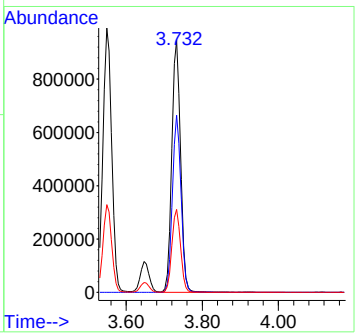


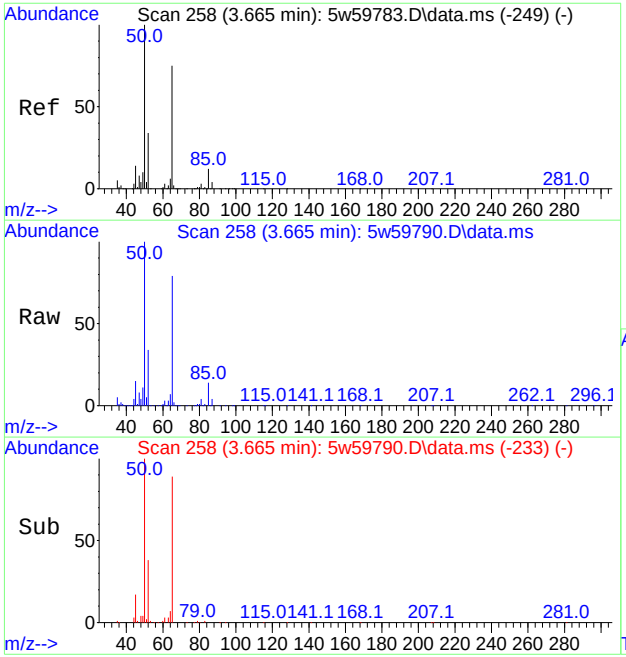


#9
FREON 114
Concen: 11.57 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1508684

Ion	Ratio	Lower	Upper
85	100		
135	69.6	40.5	100.5
87	32.8	3.0	63.0

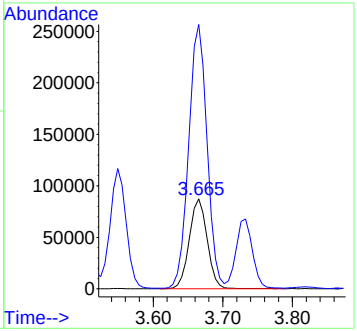


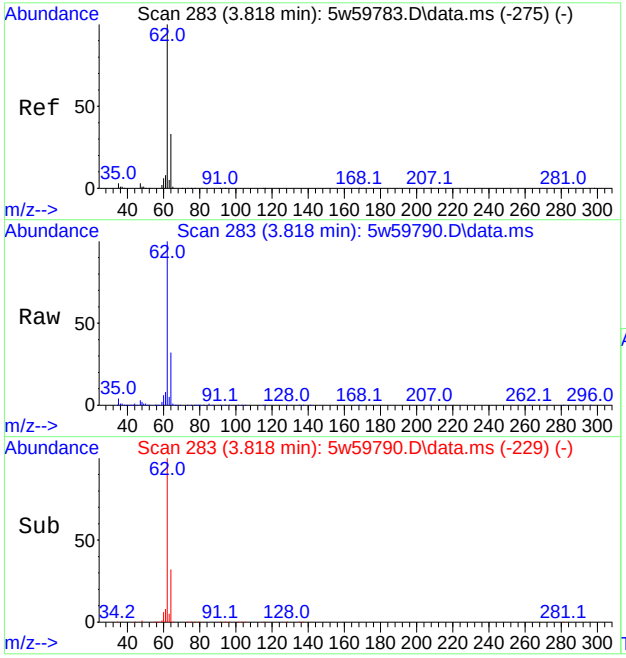


#10
CHLOROMETHANE
Concen: 10.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 156659

Ion	Ratio	Lower	Upper
52	100		
50	293.1	267.9	327.9

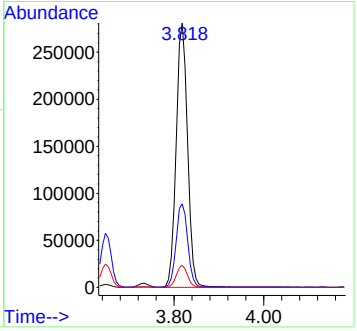


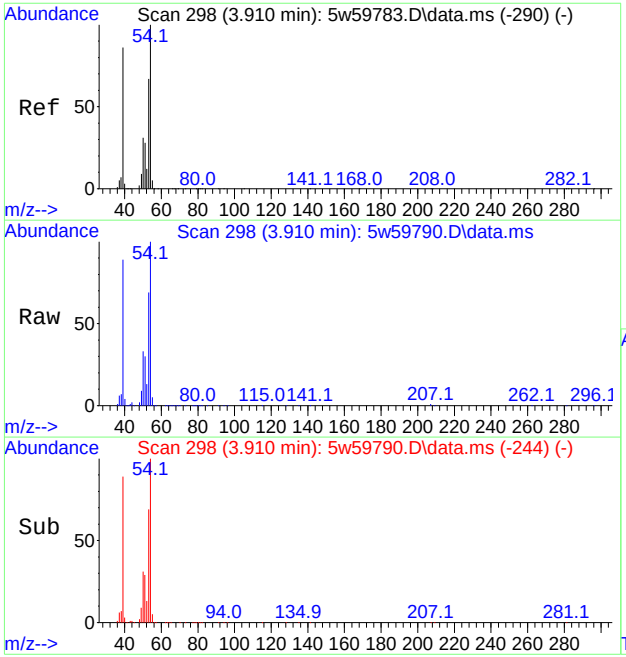


#11
VINYL CHLORIDE
Concen: 10.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 498882

Ion	Ratio	Lower	Upper
62	100		
64	32.9	3.6	63.6
61	8.2	0.0	38.2

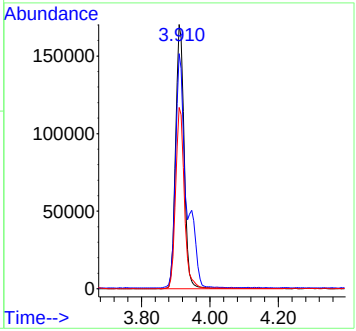


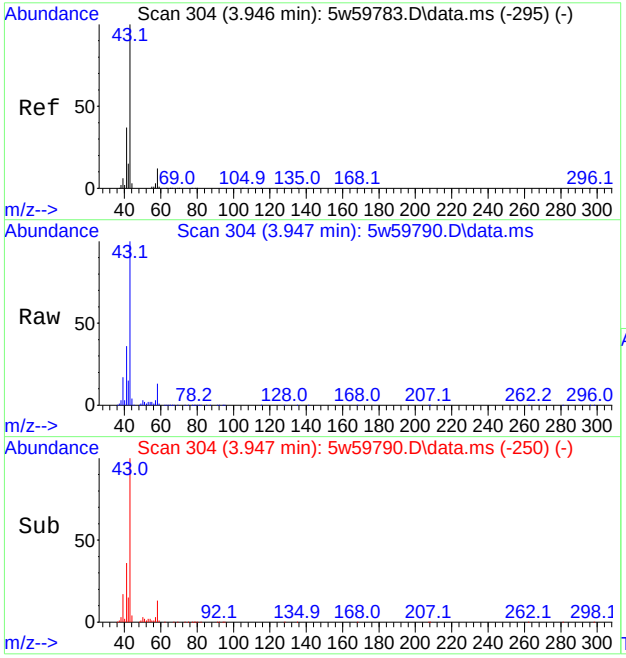


#12
1,3-BUTADIENE
Concen: 10.32 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 54 Resp: 299983

Ion	Ratio	Lower	Upper
54	100		
39	113.6	82.0	142.0
53	71.1	40.2	100.2

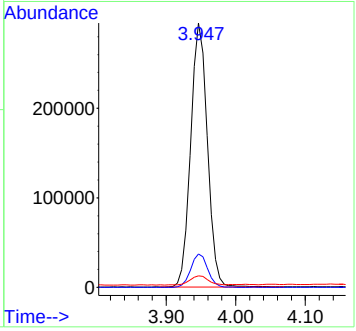


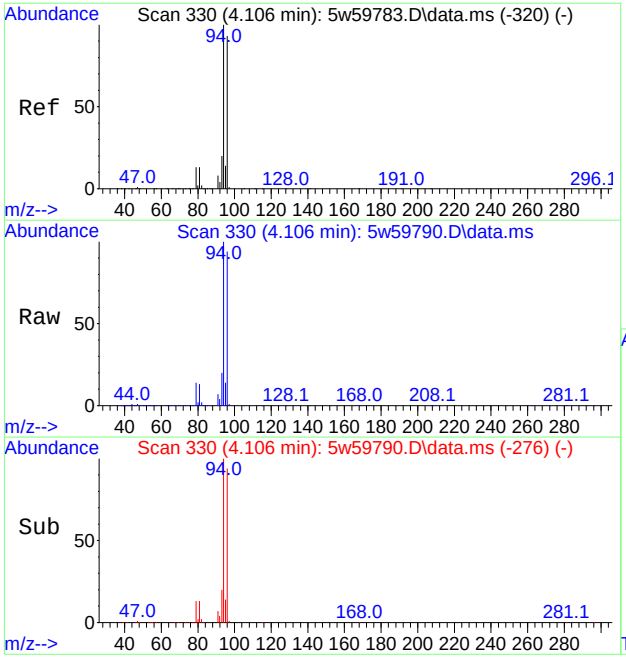


#13
n-BUTANE
Concen: 10.35 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 491620

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	3.8	0.0	34.9

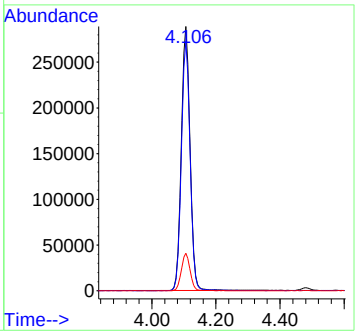


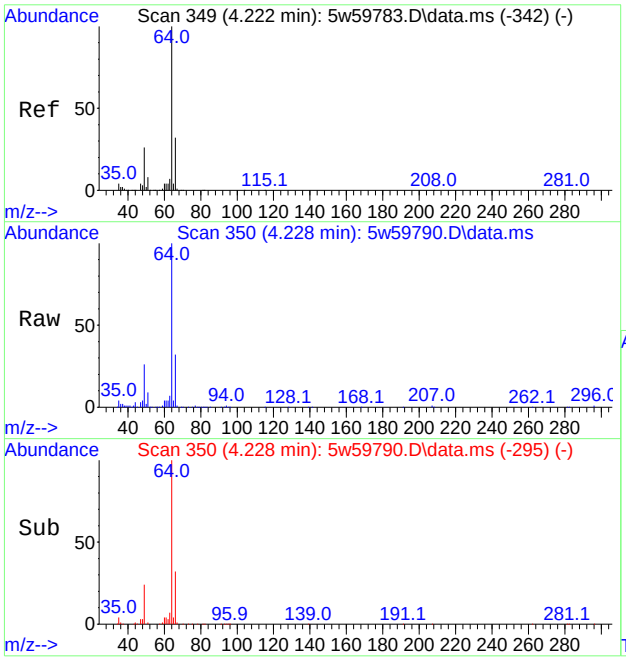


#14
BROMOMETHANE
Concen: 10.65 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 94 Resp: 546593

Ion	Ratio	Lower	Upper
94	100		
96	95.2	65.3	125.3
95	14.3	0.0	44.1

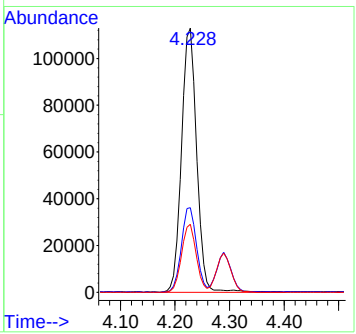


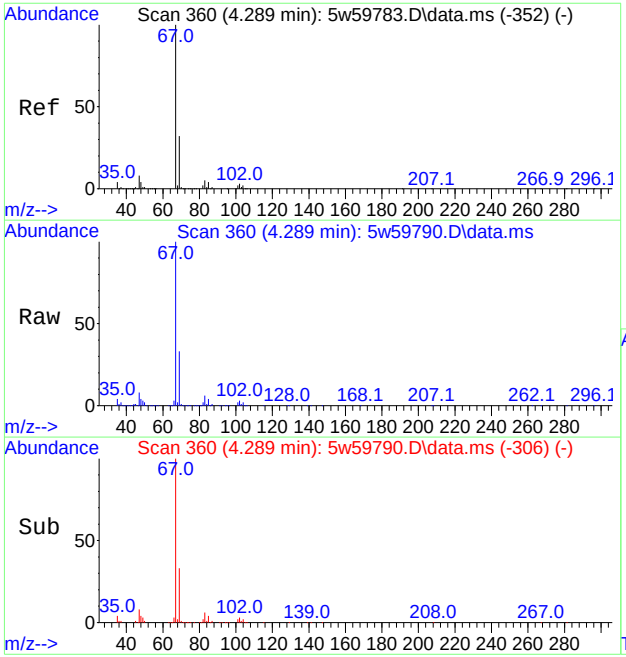


#15
CHLOROETHANE
Concen: 9.25 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 64 Resp: 217760

Ion	Ratio	Lower	Upper
64	100		
66	32.0	3.1	63.1
49	25.0	0.0	55.3

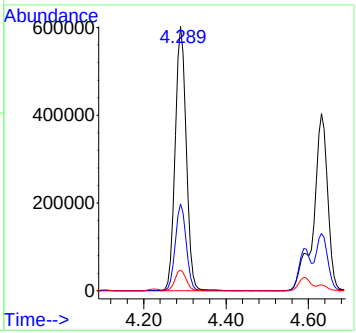


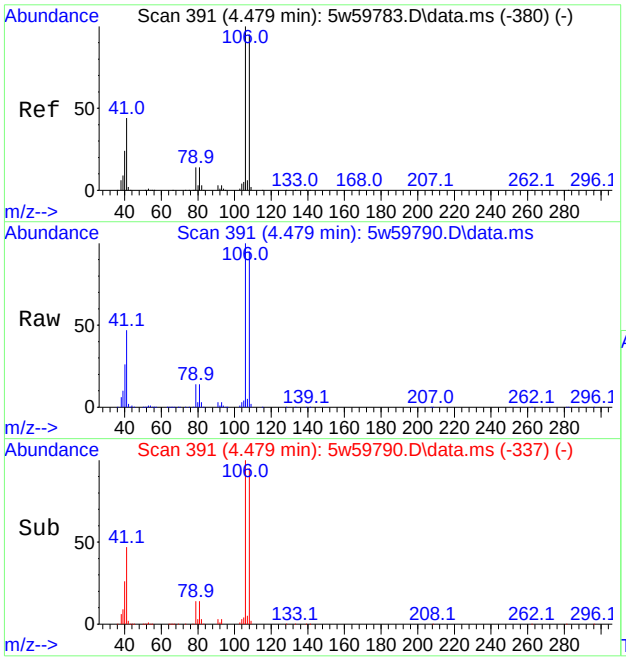


#16
DICHLOROFLUOROMETHANE
Concen: 10.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 1122027

Ion	Ratio	Lower	Upper
67	100		
69	32.6	22.7	42.3
47	8.0	5.6	10.4

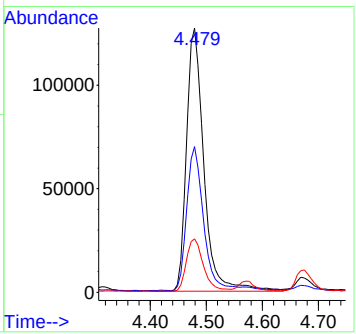


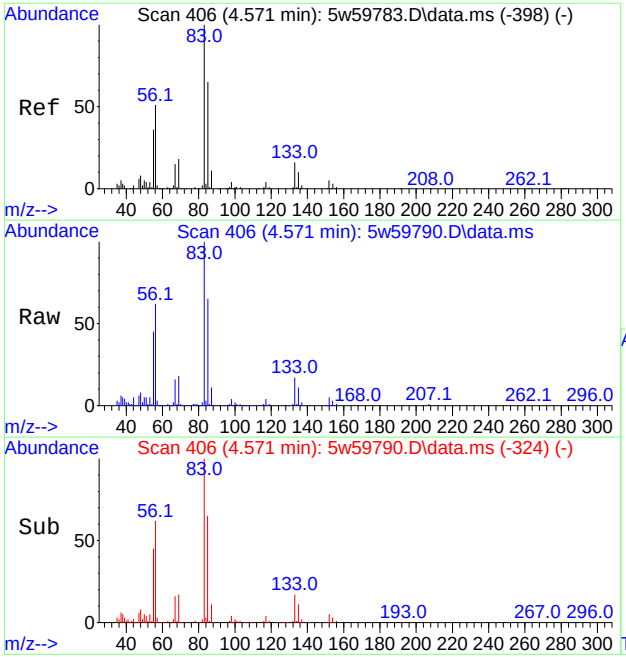


#17
ACETONITRILE
Concen: 10.09 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 273749

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.5	13.4	24.8

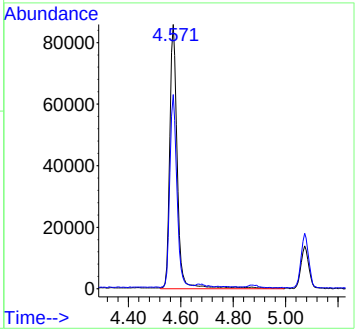


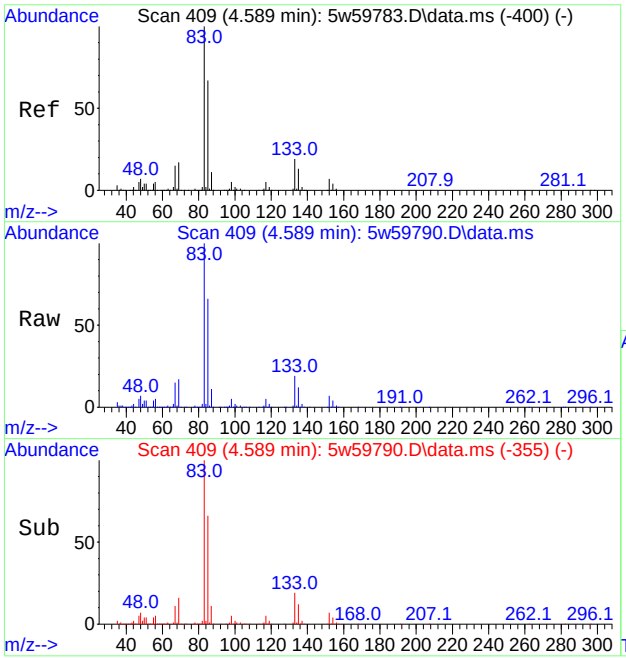


#18
ACROLEIN
Concen: 11.29 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 56 Resp: 174000

Ion	Ratio	Lower	Upper
56	100		
55	68.2	46.6	86.6

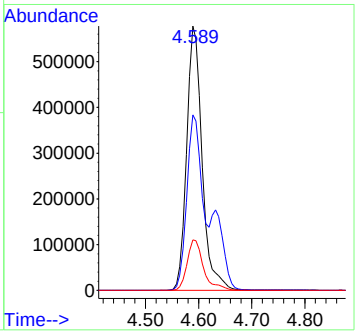


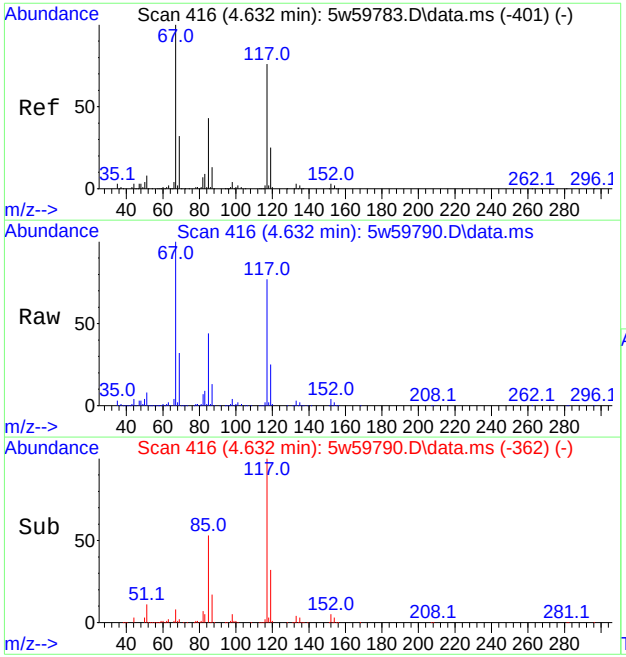


#19
FREON 123
Concen: 9.88 PPBV
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1172331

Ion	Ratio	Lower	Upper
83	100		
85	92.1	34.0	94.0
133	20.4	0.0	50.7

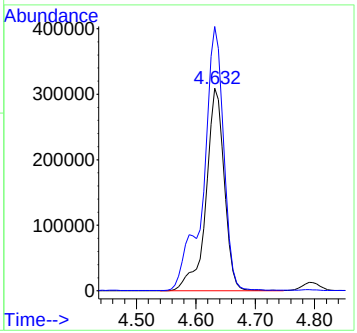


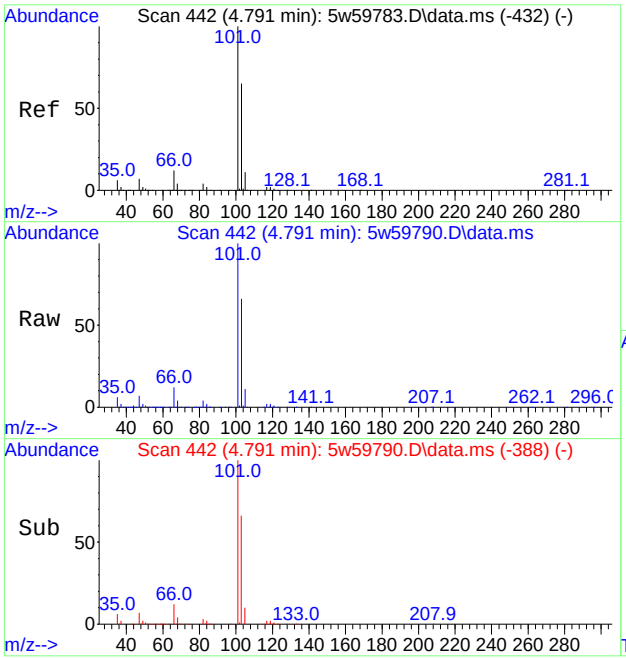


#20
FREON 123A
Concen: 9.67 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 658691

Ion	Ratio	Lower	Upper
117	100		
67	145.1	114.6	174.6

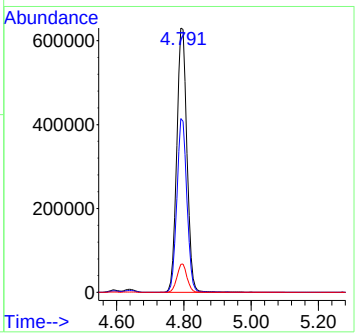


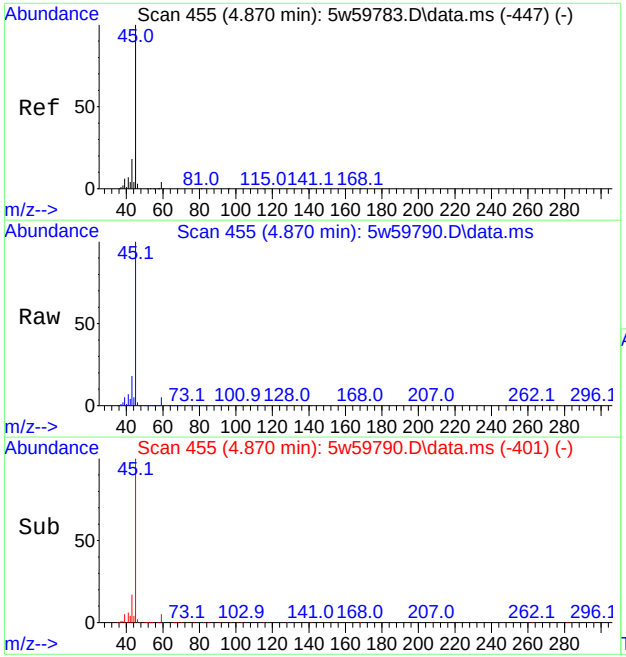


#21
TRICHLOROFLUOROMETHANE
Concen: 10.86 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:101 Resp: 1322128

Ion	Ratio	Lower	Upper
101	100		
103	65.1	35.0	95.0
105	10.7	0.0	40.7

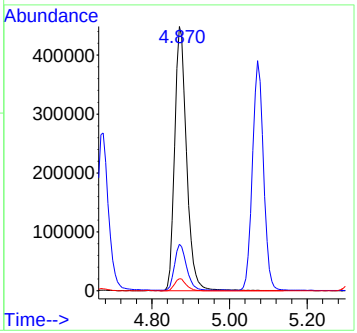


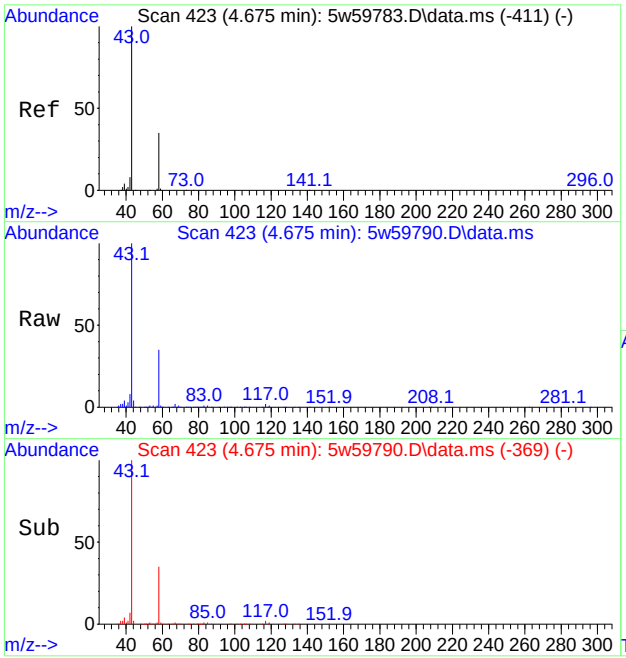


#22
ISOPROPYL ALCOHOL
Concen: 9.81 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 957946

Ion	Ratio	Lower	Upper
45	100		
43	17.6	0.0	47.8
59	4.6	0.0	34.1

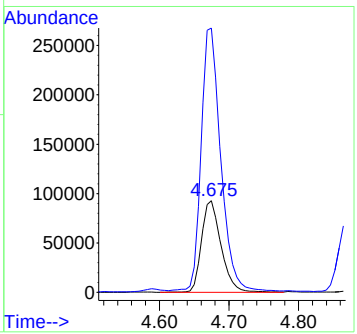


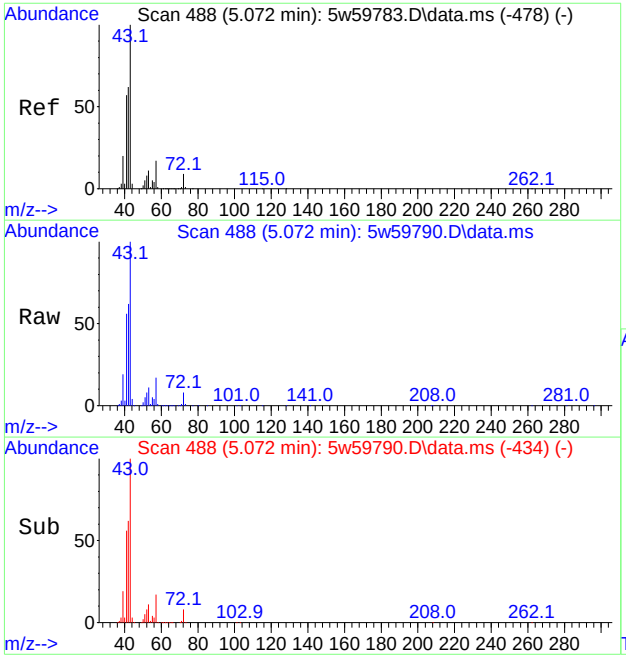


#23
ACETONE
Concen: 9.32 PPBV
RT: 4.675 min Scan# 423
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 182115

Ion	Ratio	Lower	Upper
58	100		
43	287.5	252.3	312.3

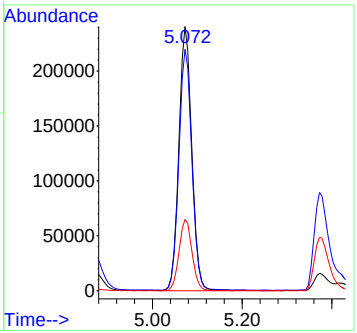


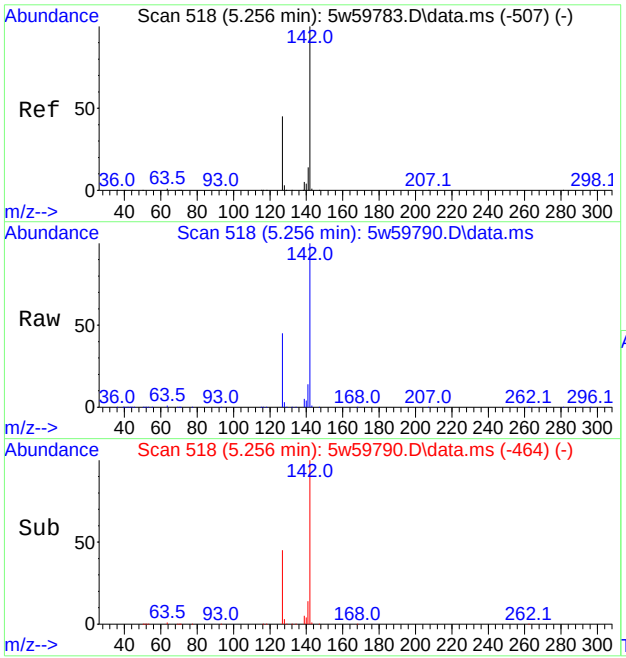


#24
PENTANE
Concen: 9.56 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 42 Resp: 485024

Ion	Ratio	Lower	Upper
42	100		
41	91.0	62.3	122.3
57	27.3	0.0	57.7

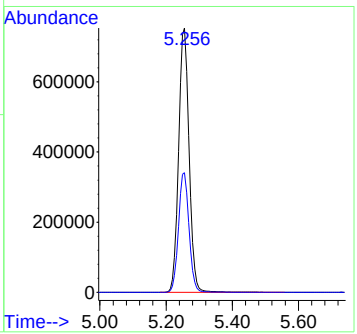


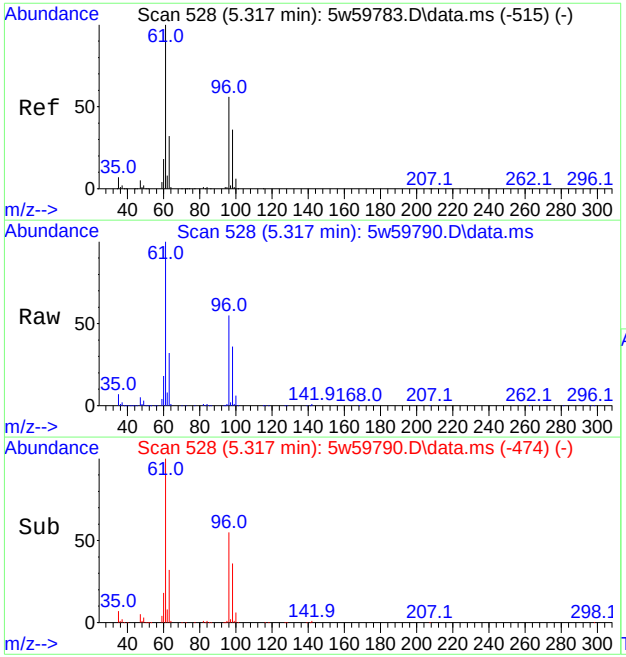


#25
IODOMETHANE
Concen: 10.92 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:142 Resp: 1656951

Ion	Ratio	Lower	Upper
142	100		
127	45.8	16.0	76.0

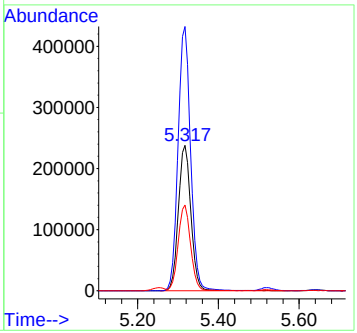


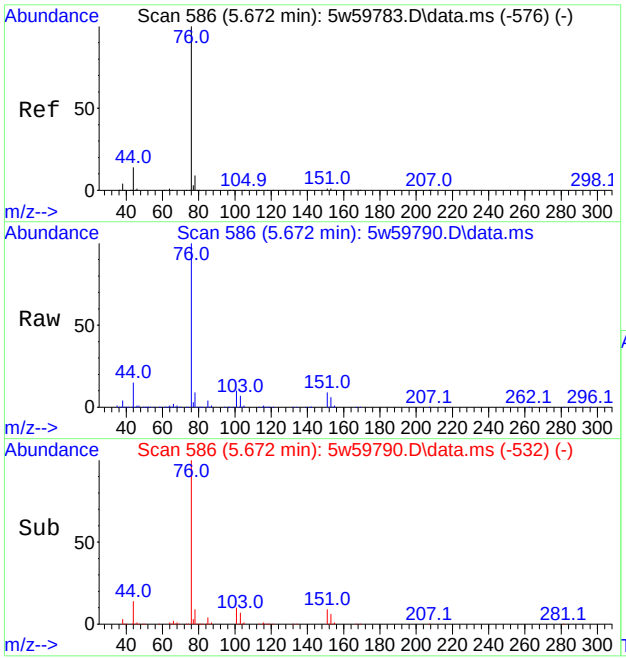


#26
1,1-DICHLOROETHYLENE
Concen: 9.62 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 514235

Ion	Ratio	Lower	Upper
96	100		
61	180.7	148.5	208.5
63	58.0	27.4	87.4

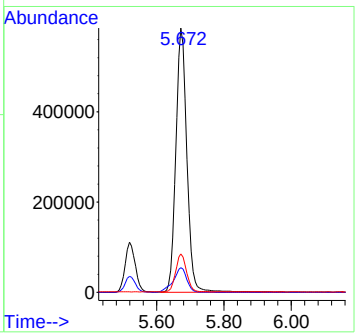


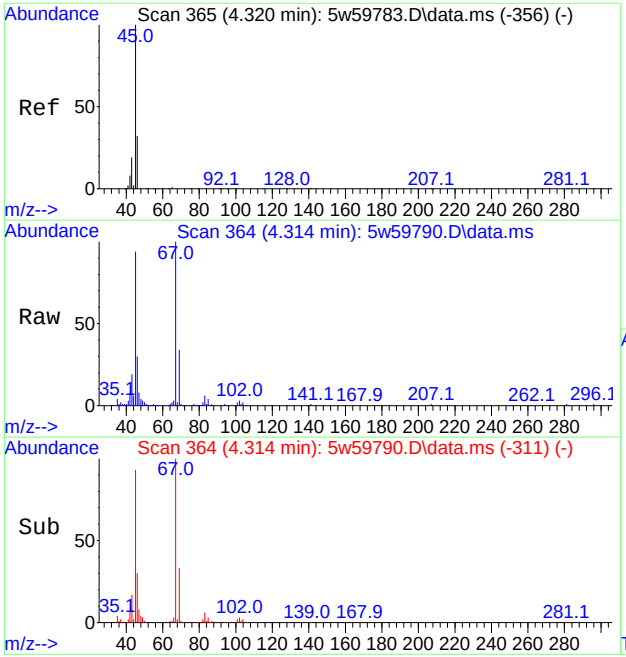


#27
CARBON DISULFIDE
Concen: 9.53 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 1333722

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	14.3	0.0	44.6

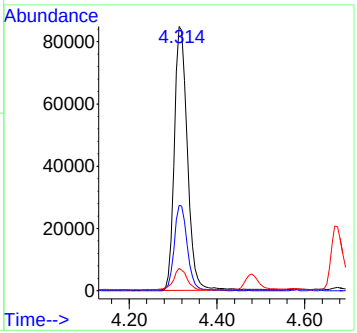


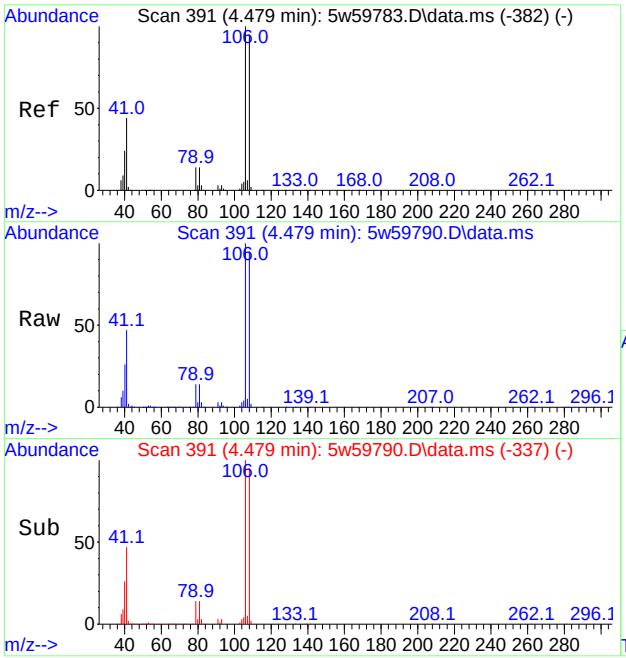


#28
ETHANOL
Concen: 10.75 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 175873

Ion	Ratio	Lower	Upper
45	100		
46	32.5	2.0	62.0
42	8.3	0.0	38.5

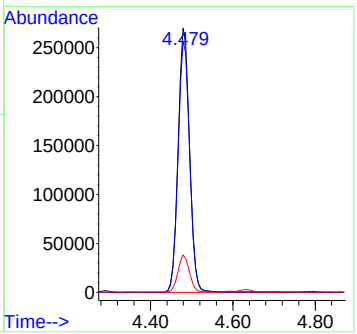


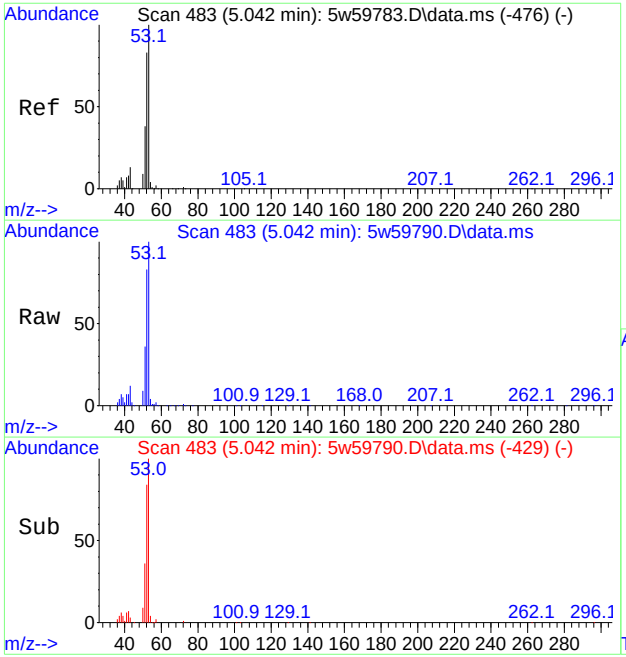


#29
BROMOETHENE
Concen: 10.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 523753

Ion	Ratio	Lower	Upper
106	100		
108	95.9	65.6	125.6
81	14.0	0.0	43.9

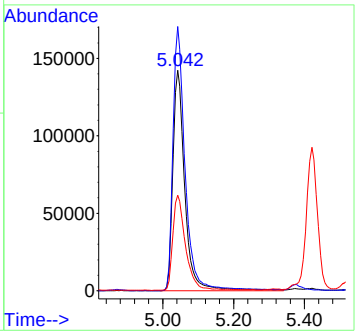


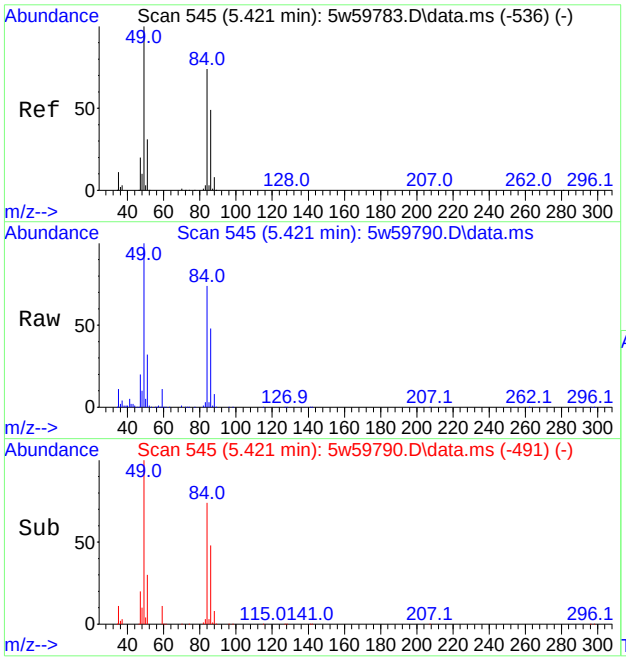


#30
ACRYLONITRILE
Concen: 10.15 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 335497

Ion	Ratio	Lower	Upper
52	100		
53	122.5	85.8	159.4
51	46.4	32.3	60.1

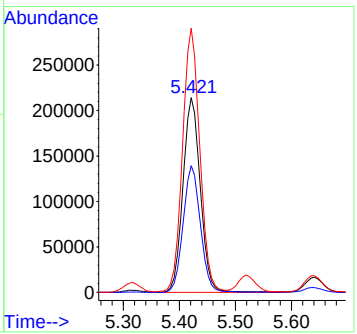


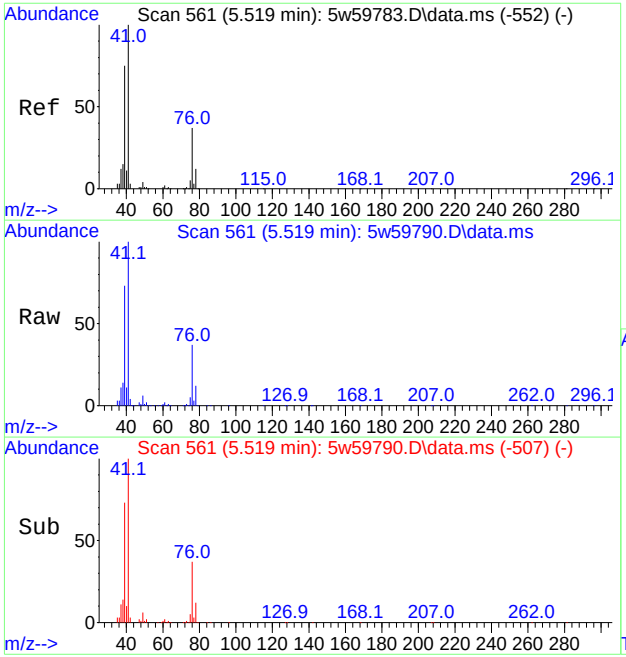


#31
METHYLENE CHLORIDE
Concen: 9.22 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 460743

Ion	Ratio	Lower	Upper
84	100		
86	64.8	35.2	95.2
49	134.8	105.3	165.3

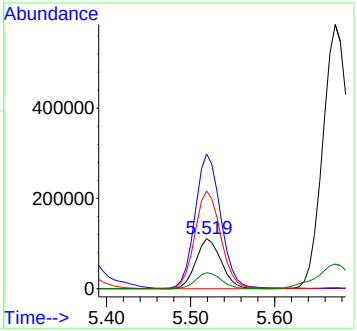


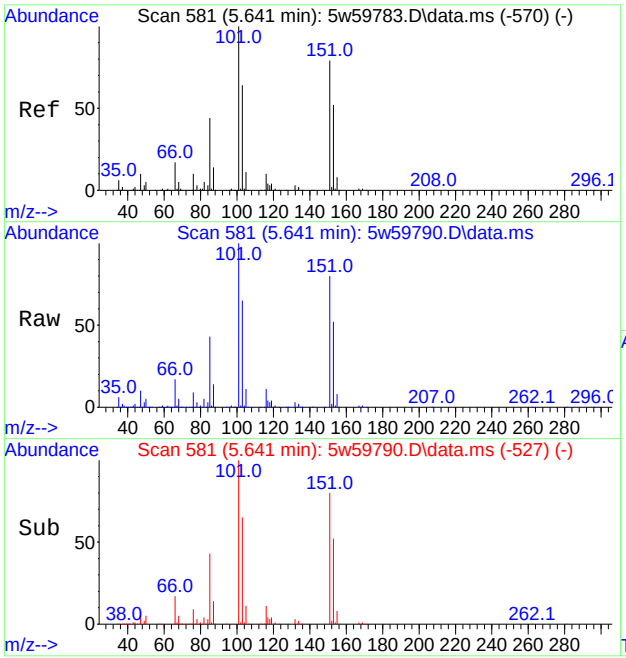


#32
3-CHLOROPROPENE
Concen: 9.77 PPBV
RT: 5.519 min Scan# 561
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 235062

Ion	Ratio	Lower	Upper
76	100		
41	271.7	240.8	300.8
39	197.9	173.6	233.6
78	32.5	2.8	62.8

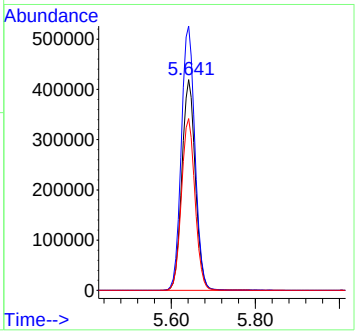


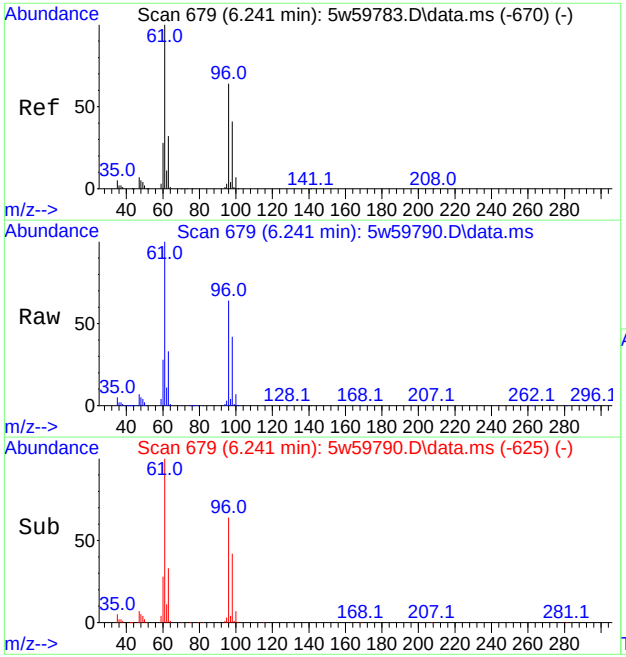


#33
FREON 113
Concen: 10.53 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:151 Resp: 936508

Ion	Ratio	Lower	Upper
151	100		
101	126.4	97.5	157.5
103	82.0	52.5	112.5

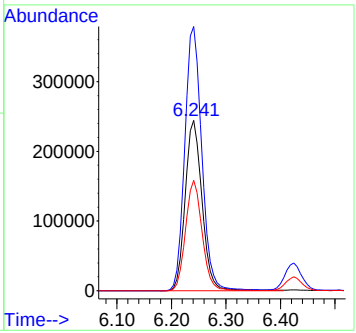


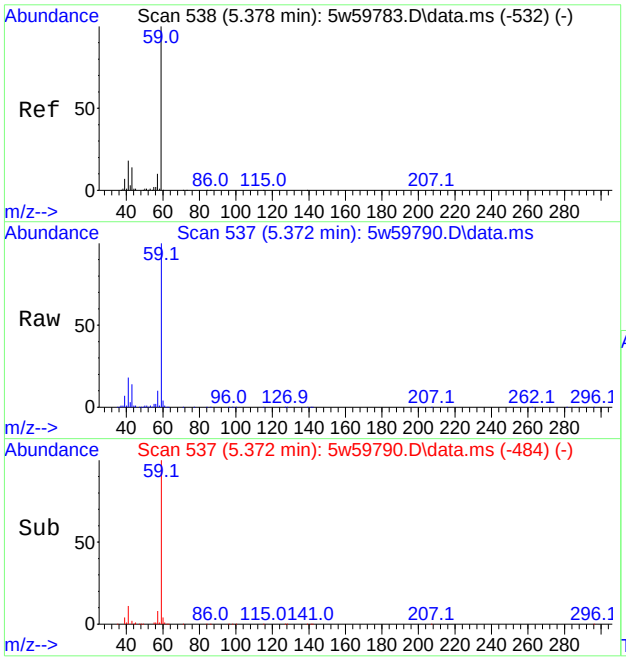


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 9.34 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 523452

Ion	Ratio	Lower	Upper
96	100		
61	156.5	126.4	186.4
98	63.9	34.1	94.1

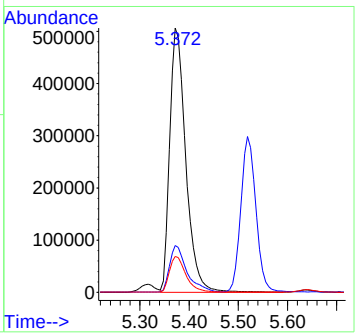


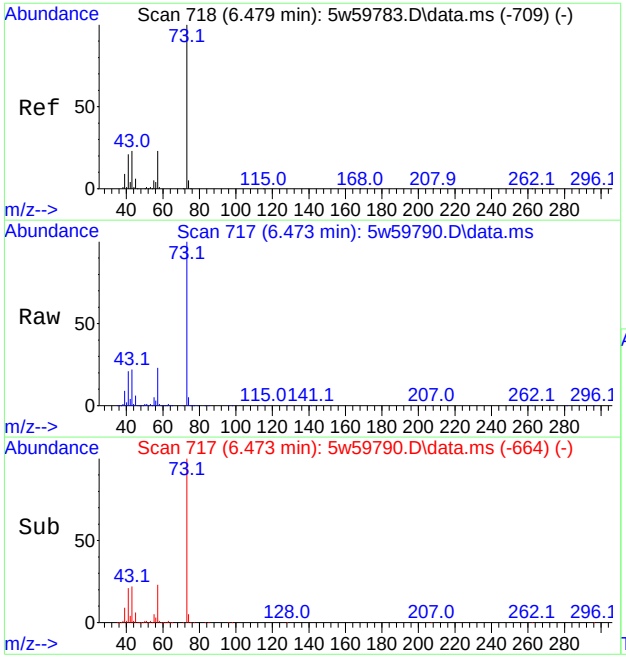


#35
TERTIARY BUTYL ALCOHOL
Concen: 11.52 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 1150749

Ion	Ratio	Lower	Upper
59	100		
41	19.0	0.0	49.3
43	13.9	0.0	44.1

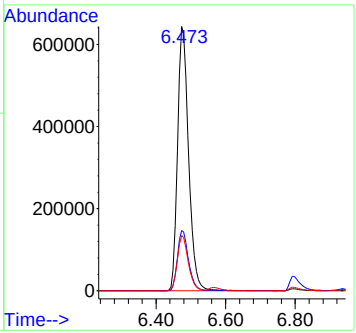


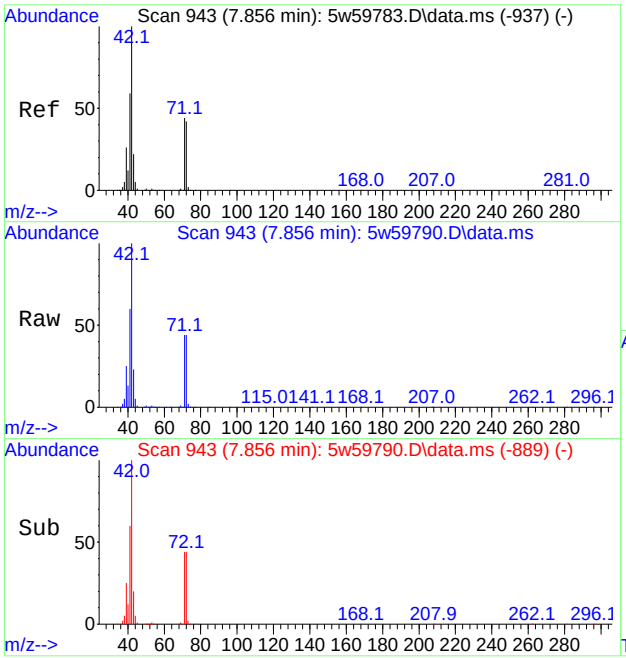


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.10 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 73 Resp: 1424107

Ion	Ratio	Lower	Upper
73	100		
57	23.2	0.0	53.1
41	20.7	0.0	50.6

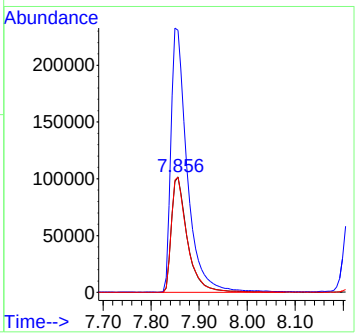


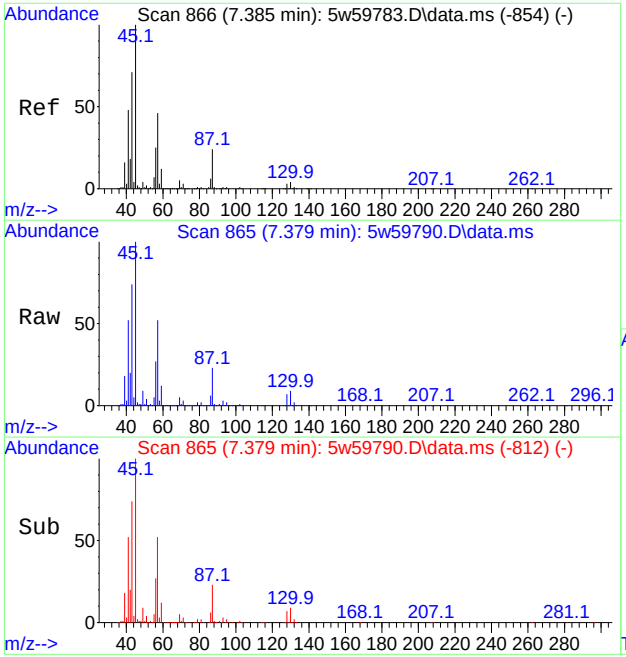


#37
TETRAHYDROFURAN
Concen: 12.20 PPBV
RT: 7.856 min Scan# 943
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 236078

Ion	Ratio	Lower	Upper
72	100		
42	233.9	202.4	262.4
71	99.8	71.1	131.1

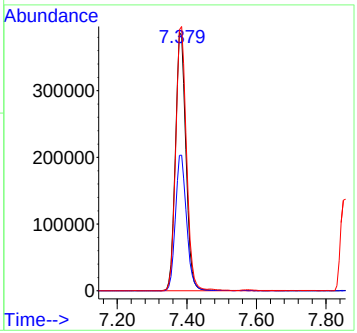


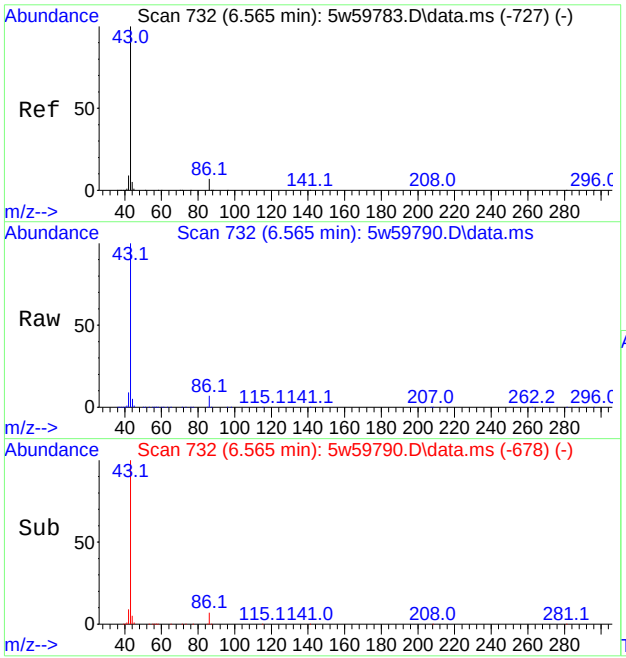


#38
HEXANE
Concen: 10.24 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 814752

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	104.6	74.7	134.7

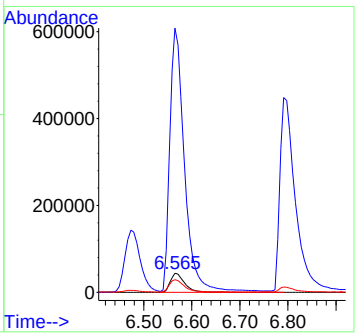


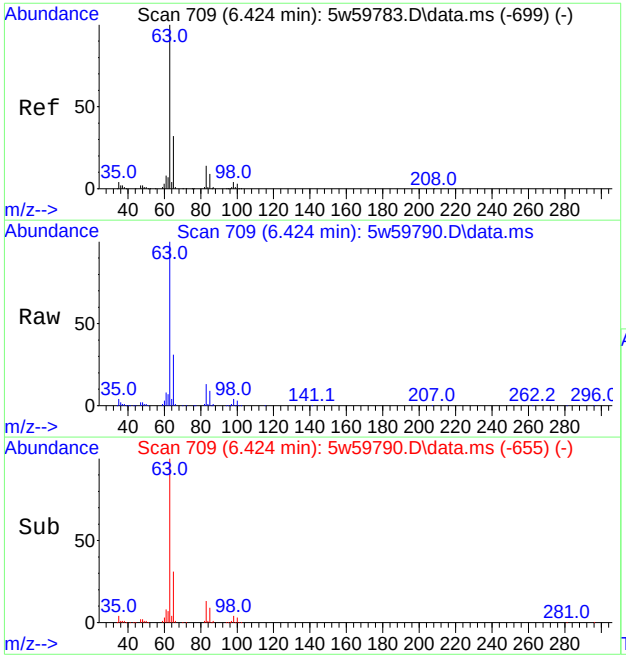


#39
VINYL ACETATE
Concen: 11.55 PPBV
RT: 6.565 min Scan# 732
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 86 Resp: 92915

Ion	Ratio	Lower	Upper
86	100		
43	1372.6	1379.7	1439.7#
44	66.6	36.9	96.9

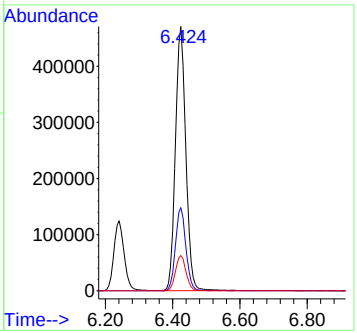


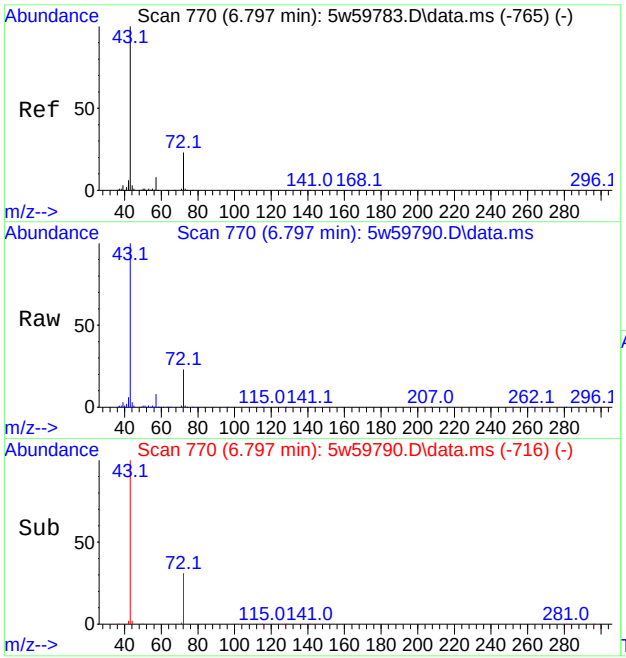


#40
1,1-DICHLOROETHANE
Concen: 9.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 1012856

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.7	61.7
83	13.5	0.0	43.5

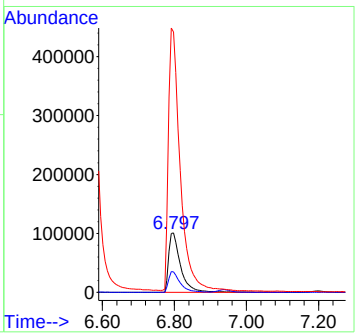


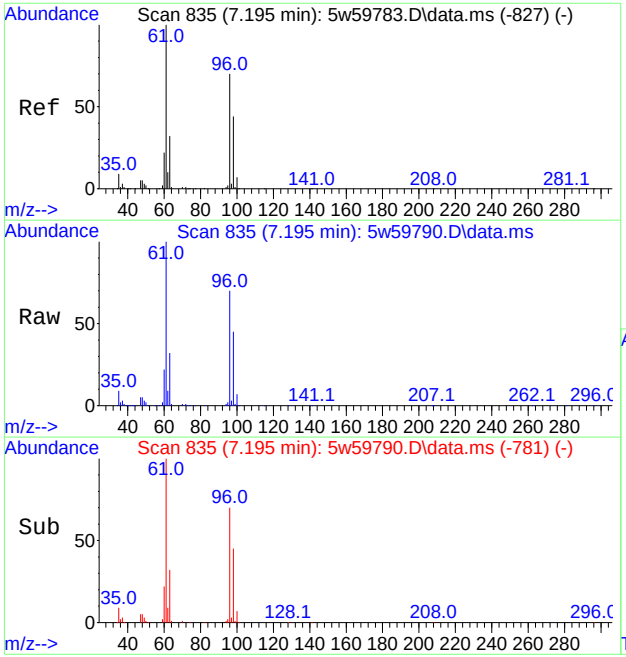


#41
METHYL ETHYL KETONE
Concen: 12.04 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 231727

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	438.5	415.9	475.9

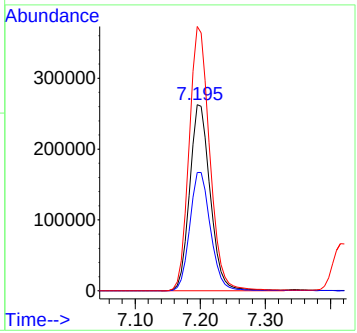


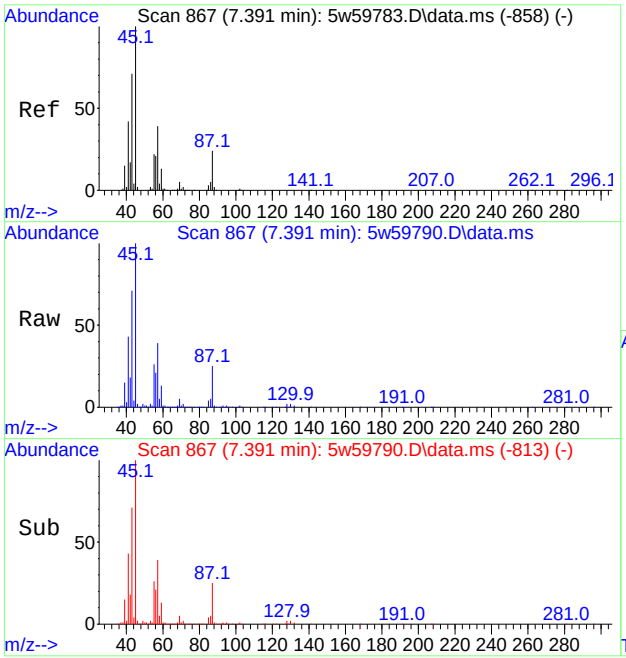


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.43 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 576053

Ion	Ratio	Lower	Upper
96	100		
98	64.4	34.0	94.0
61	142.6	111.5	171.5

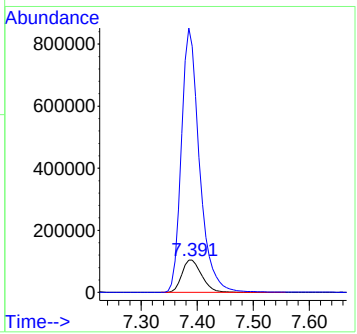


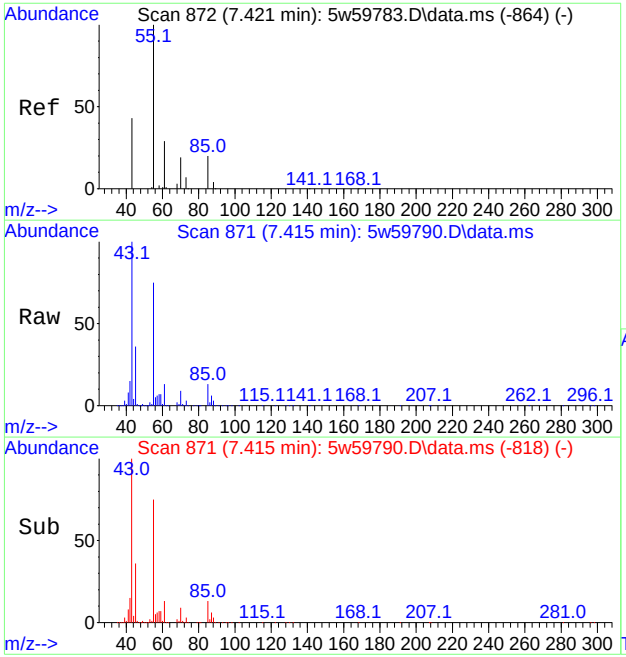


#43
DIISOPROPYL ETHER
Concen: 12.23 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 255743

Ion	Ratio	Lower	Upper
59	100		
45	748.7	720.9	780.9

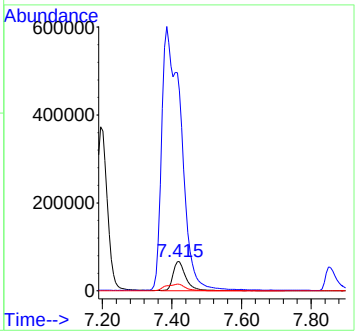


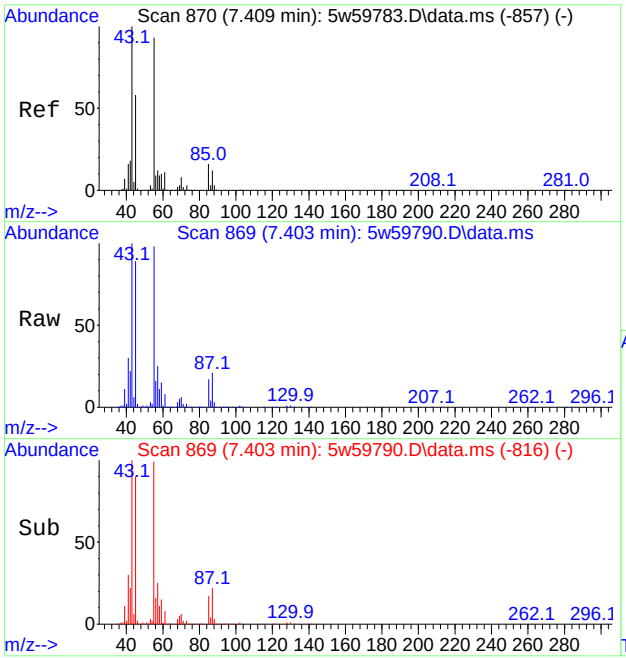


#44
ETHYL ACETATE
Concen: 11.56 PPBV
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 61 Resp: 170036

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	35.7	4.5	64.5

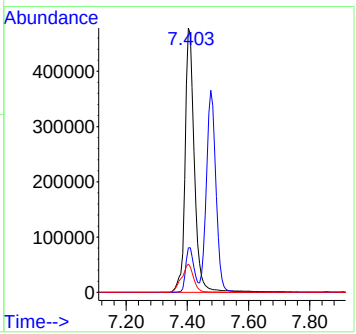


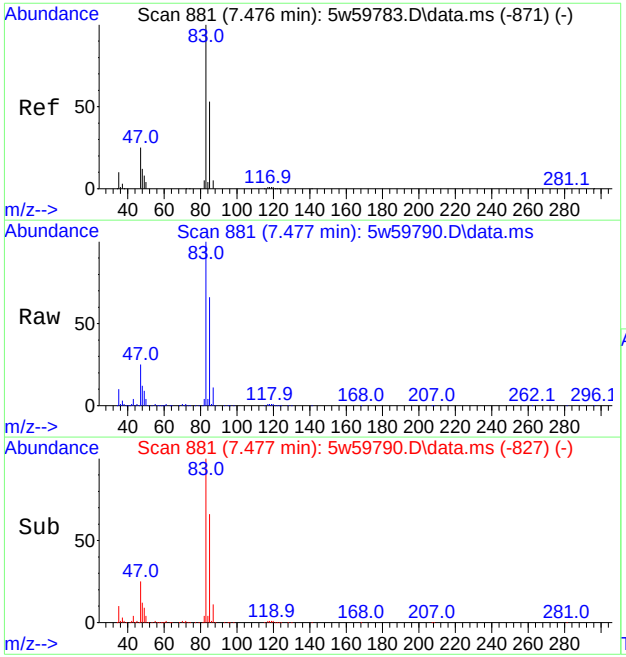


#45
METHYL ACRYLATE
Concen: 12.95 PPBV
RT: 7.403 min Scan# 869
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1019941

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.7	9.4	17.6

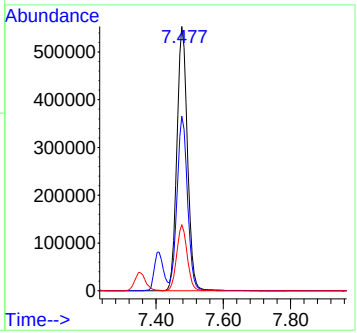


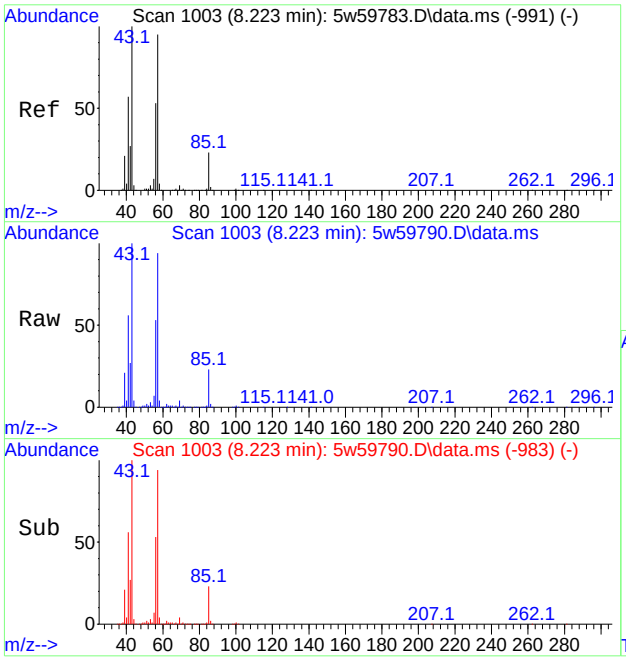


#46
CHLOROFORM
Concen: 10.89 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1206541

Ion	Ratio	Lower	Upper
83	100		
85	65.8	35.6	95.6
47	24.9	0.0	55.2

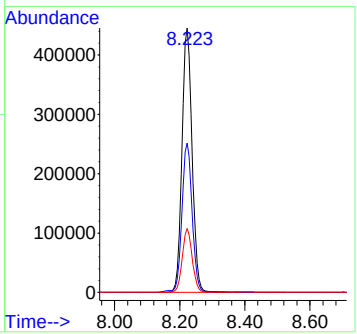


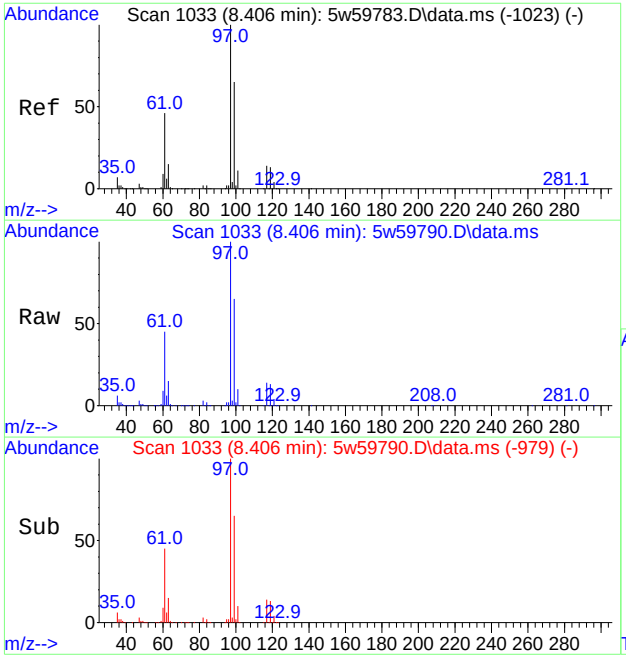


#47
2,4-DIMETHYLPENTANE
Concen: 10.74 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 967097

Ion	Ratio	Lower	Upper
57	100		
56	57.2	26.5	86.5
85	23.9	0.0	53.8

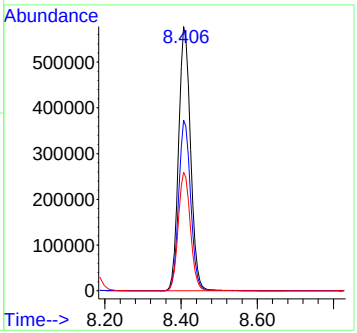


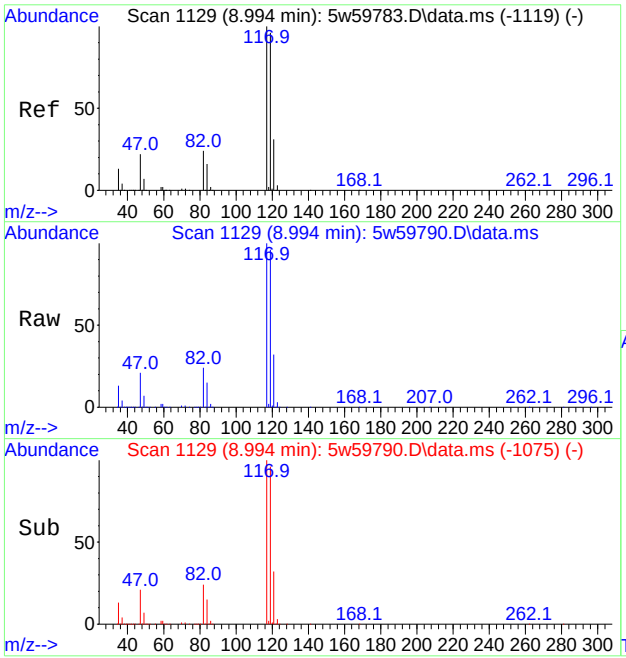


#48
1,1,1-TRICHLOROETHANE
Concen: 10.90 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 97 Resp: 1259183

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.8	94.8
61	45.8	15.8	75.8

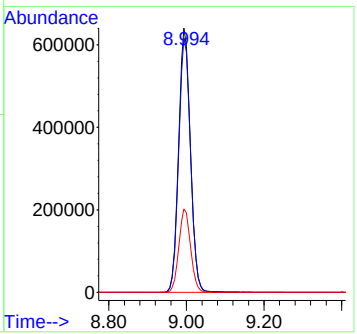


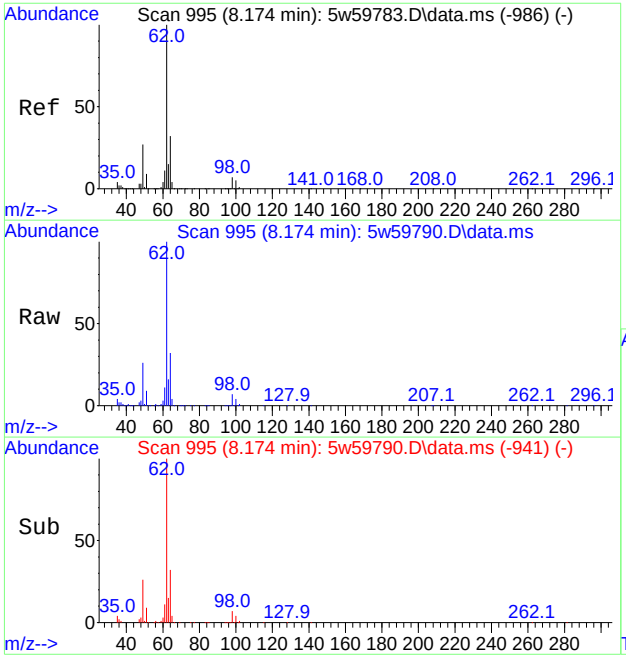


#49
CARBON TETRACHLORIDE
Concen: 10.85 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1361951

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.3	1.3	61.3

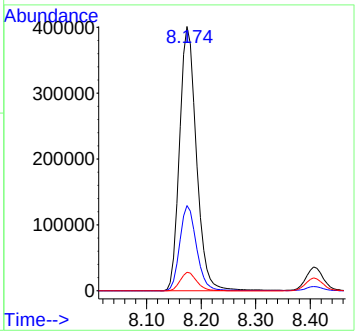


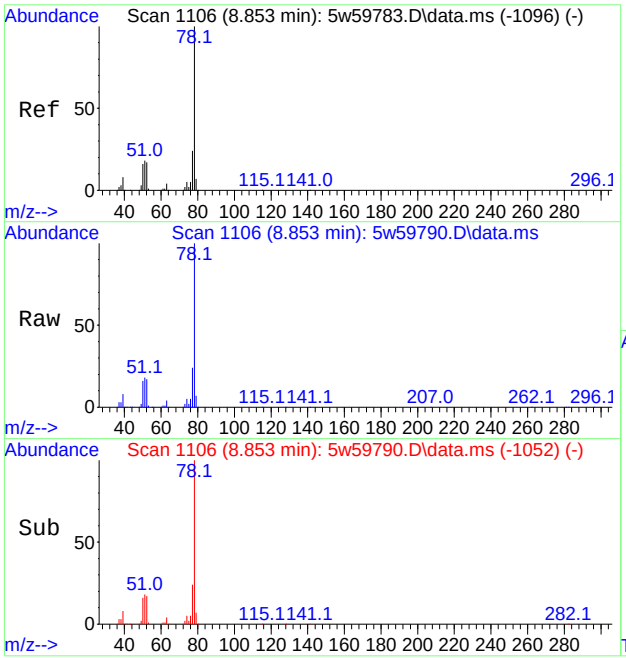


#50
1,2-DICHLOROETHANE
Concen: 11.15 PPBV
RT: 8.174 min Scan# 995
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 857881

Ion	Ratio	Lower	Upper
62	100		
64	32.2	2.3	62.3
98	6.9	0.0	36.9

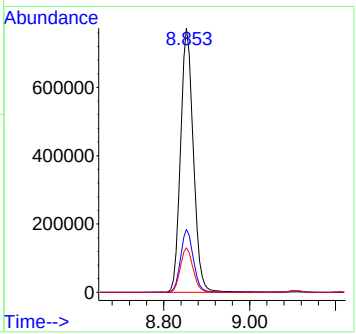


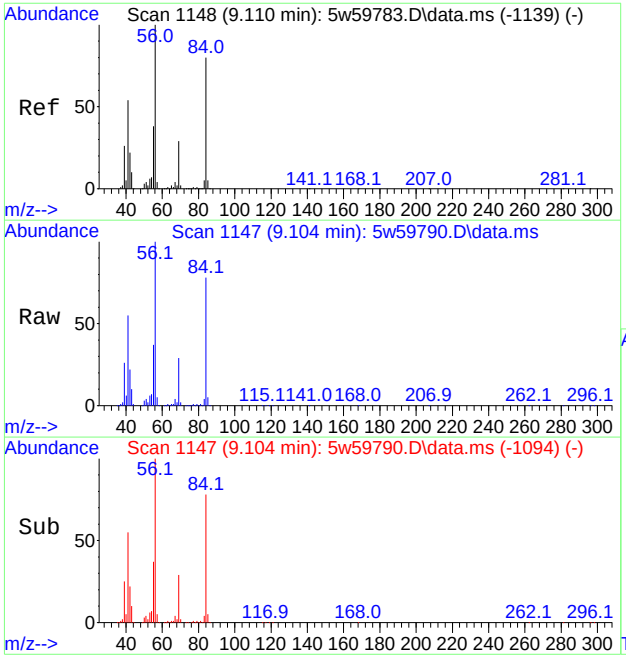


#52
BENZENE
Concen: 11.05 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 78 Resp: 1601042

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

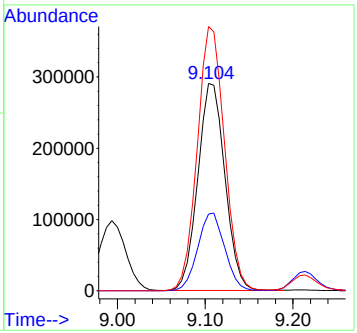


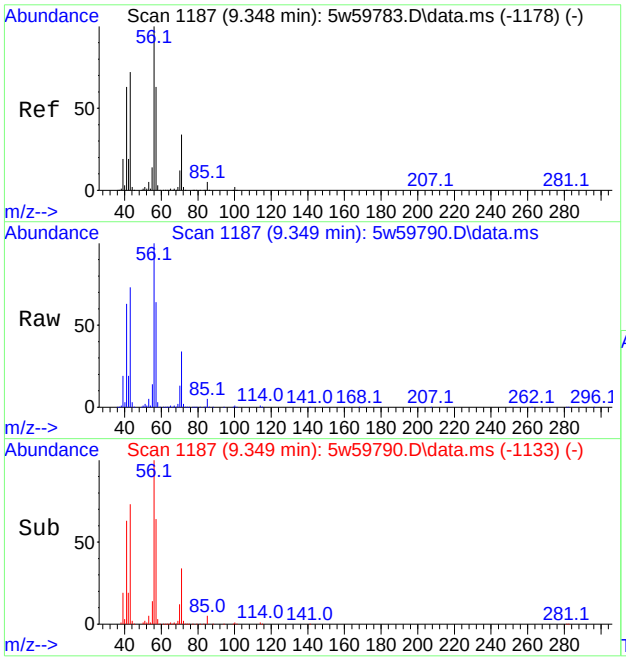


#53
CYCLOHEXANE
Concen: 10.78 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 624324

Ion	Ratio	Lower	Upper
84	100		
69	37.5	6.9	66.9
56	128.3	98.2	158.2

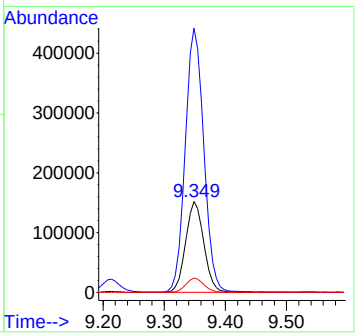


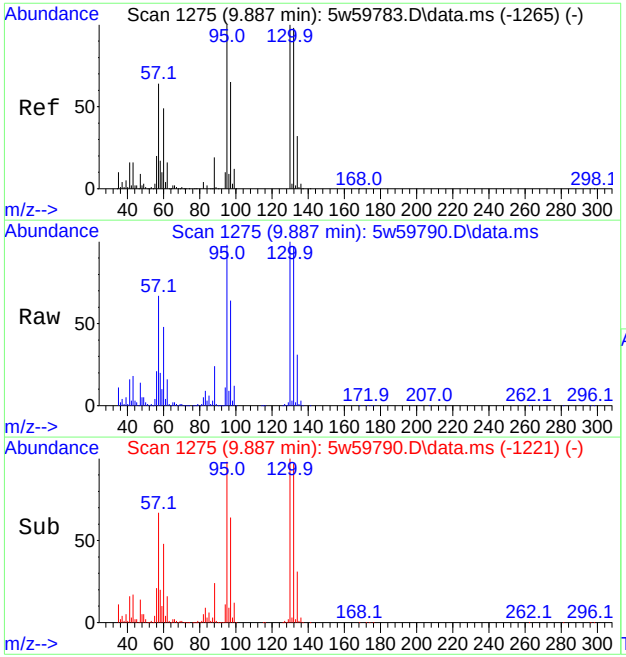


#54
2,3-DIMETHYLPENTANE
Concen: 10.75 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 71 Resp: 314676

Ion	Ratio	Lower	Upper
71	100		
56	298.0	264.6	324.6
85	15.5	0.0	45.3

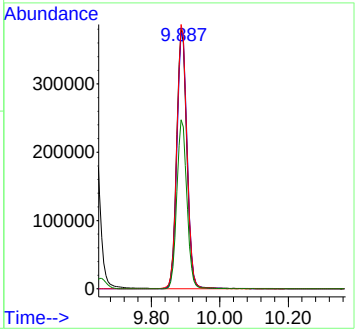


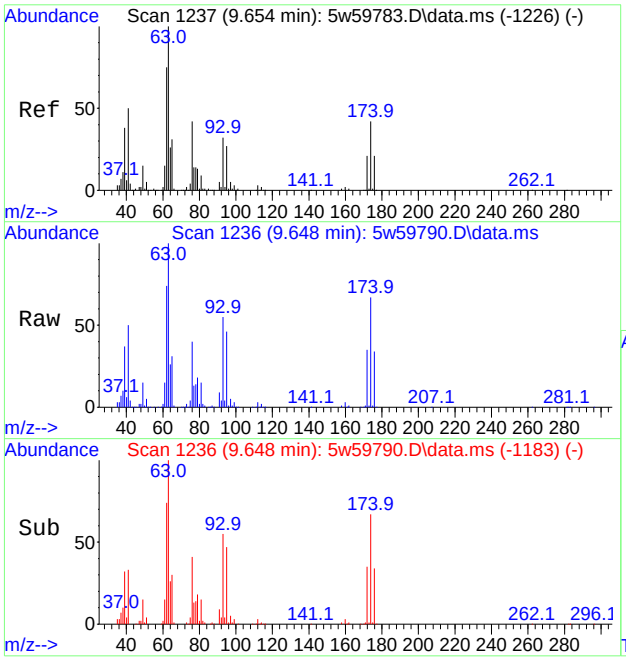


#55
TRICHLOROETHYLENE
Concen: 10.60 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 95 Resp: 782511

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.7	70.6	130.6
97	65.0	34.6	94.6

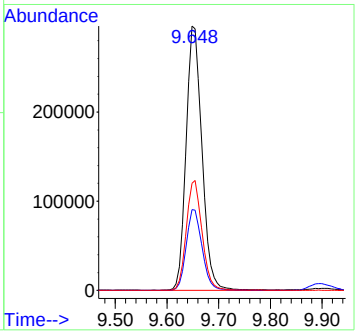


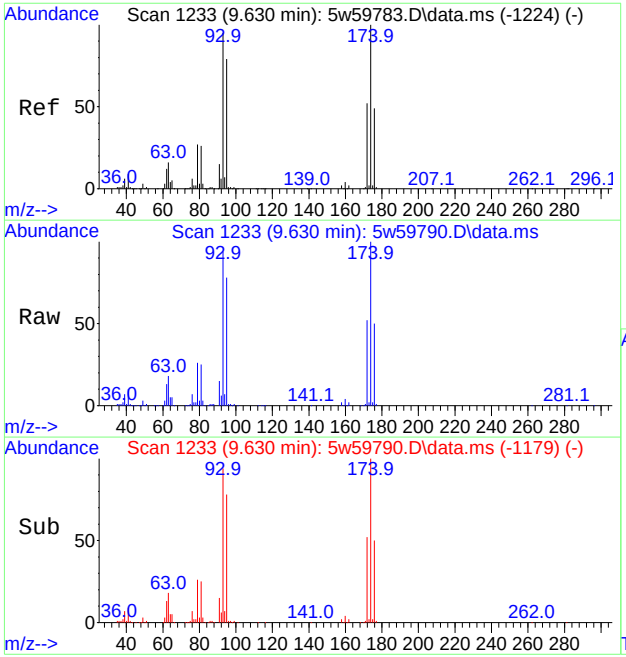


#56
1,2-DICHLOROPROPANE
Concen: 9.43 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 634380

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.1	11.5	71.5

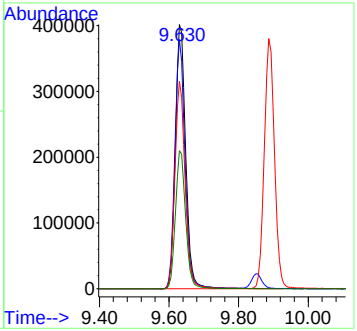


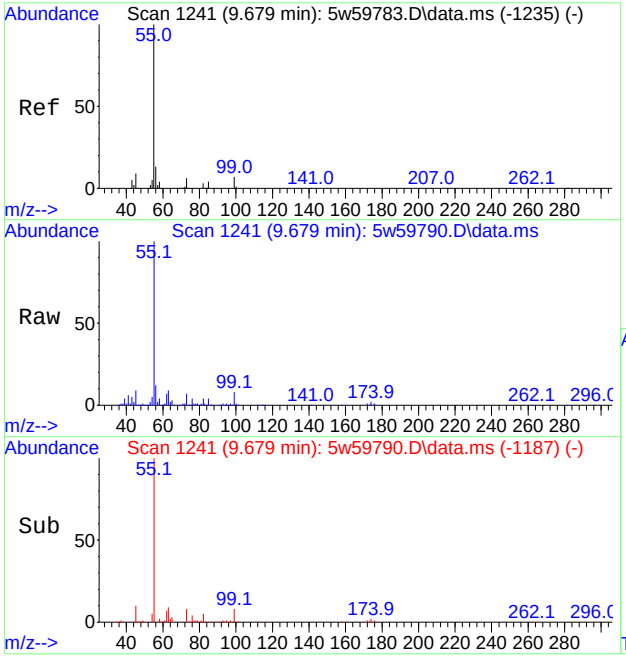


#57
DIBROMOMETHANE
Concen: 10.02 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:174 Resp: 826704

Ion	Ratio	Lower	Upper
174	100		
93	93.2	65.0	120.6
95	78.3	54.5	101.1
172	52.1	36.3	67.5

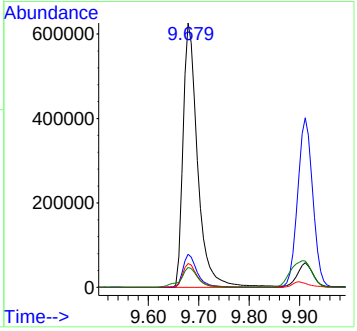


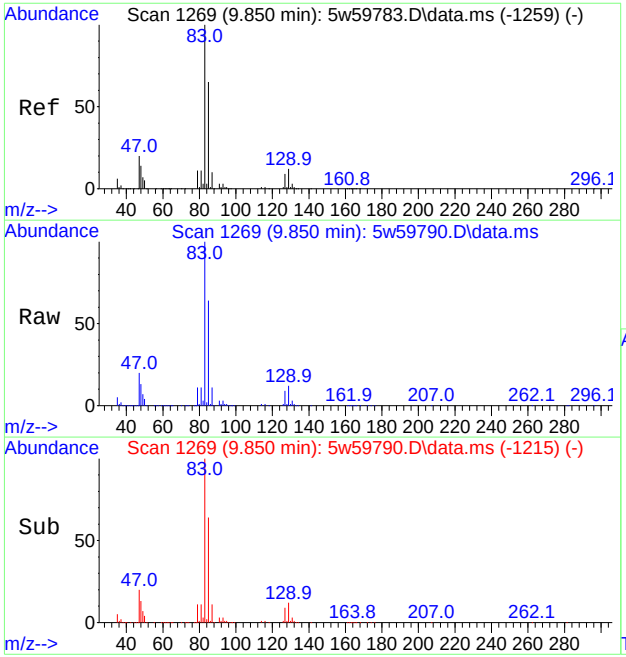


#58
ETHYL ACRYLATE
Concen: 11.98 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1259813

Ion	Ratio	Lower	Upper
55	100		
56	12.4	8.6	16.0
45	9.4	6.6	12.2
99	9.0	6.4	12.0

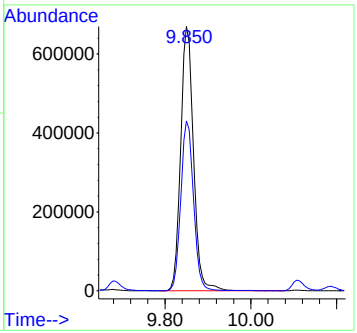


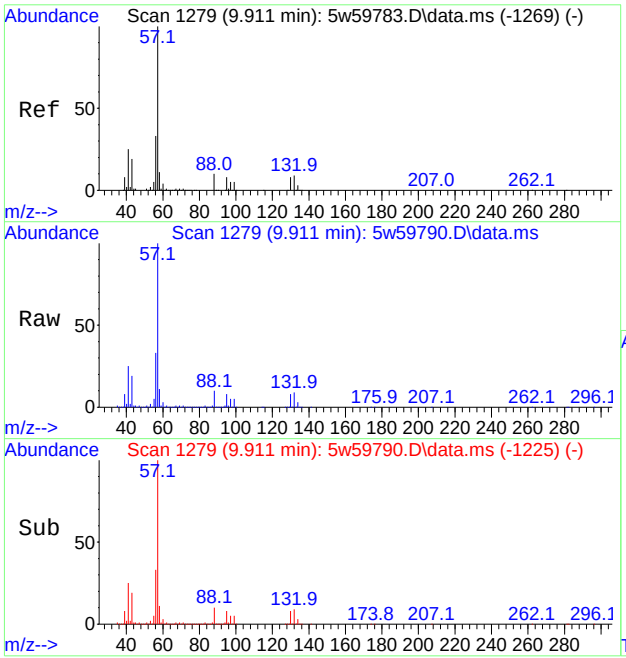


#59
BROMODICHLOROMETHANE
Concen: 10.86 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1390089

Ion	Ratio	Lower	Upper
83	100		
85	63.5	33.4	93.4

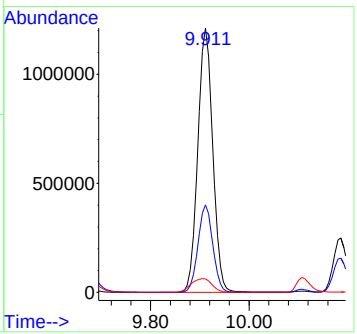


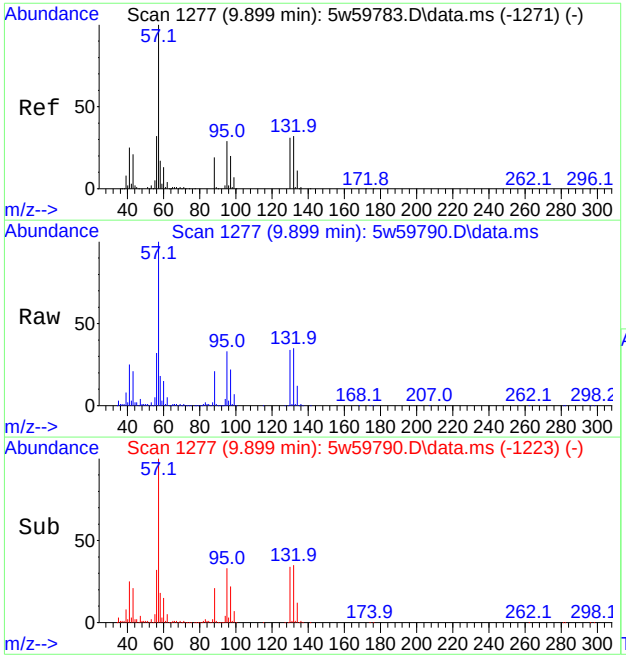


#60
2,2,4-TRIMETHYLPENTANE
Concen: 11.14 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 2555629

Ion	Ratio	Lower	Upper
57	100		
56	32.6	2.5	62.5
99	7.3	0.0	37.3

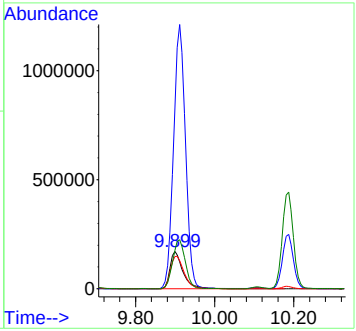


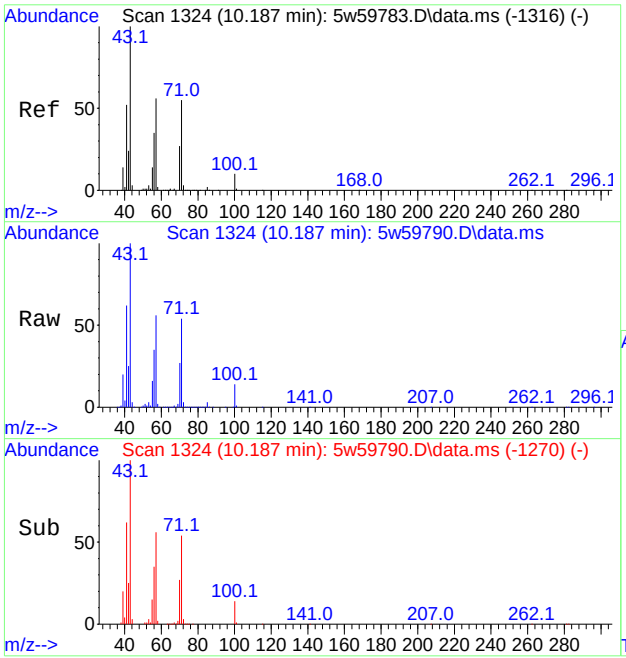


#61
1,4-DIOXANE
Concen: 11.81 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 88 Resp: 390530

Ion	Ratio	Lower	Upper
88	100		
57	486.3	494.2	554.2#
58	86.9	58.9	118.9
43	103.0	78.3	138.3

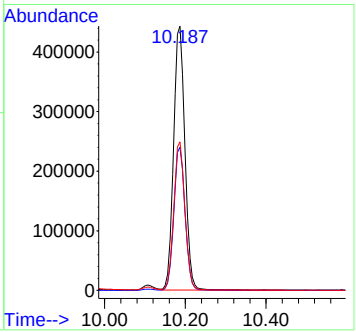


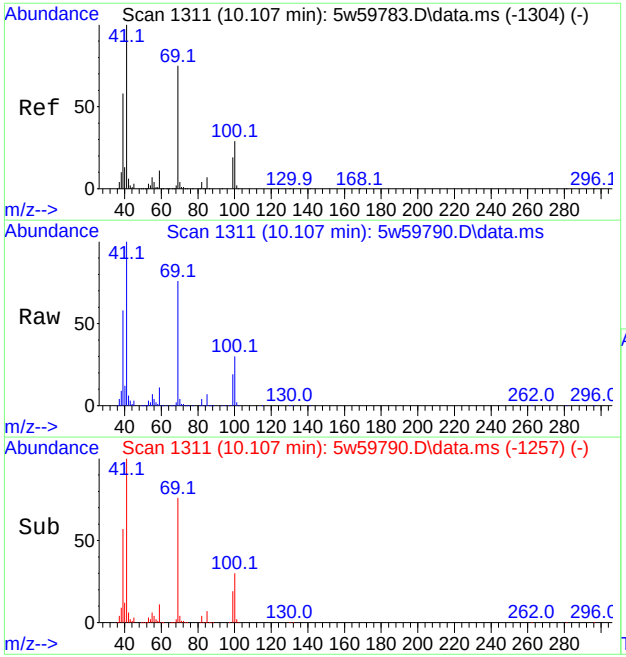


#62
HEPTANE
Concen: 10.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 861635

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.1	26.2	86.2

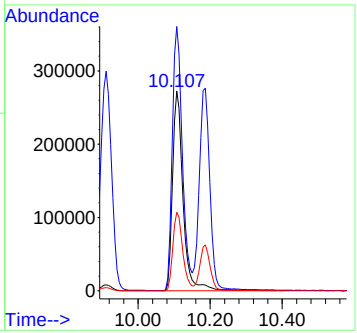


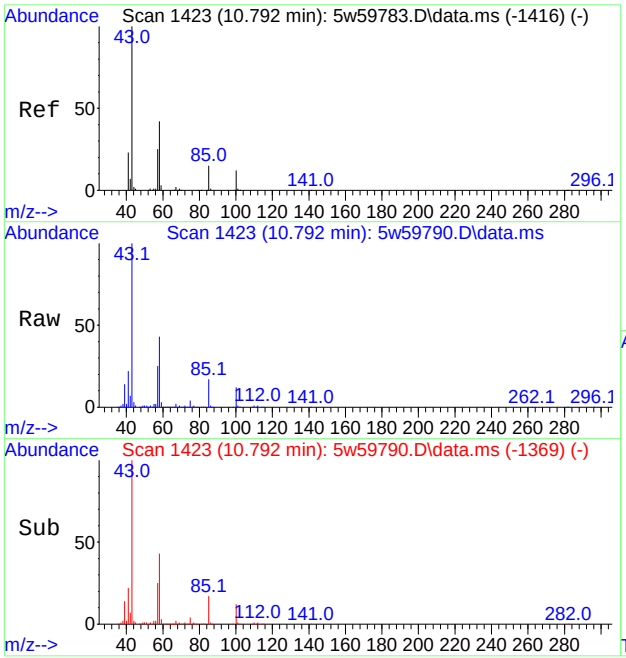


#63
METHYL METHACRYLATE
Concen: 11.70 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 552495

Ion	Ratio	Lower	Upper
69	100		
41	125.2	95.3	155.3
100	36.8	6.3	66.3

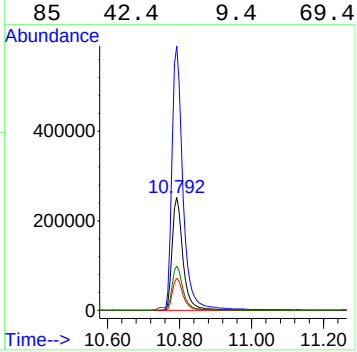


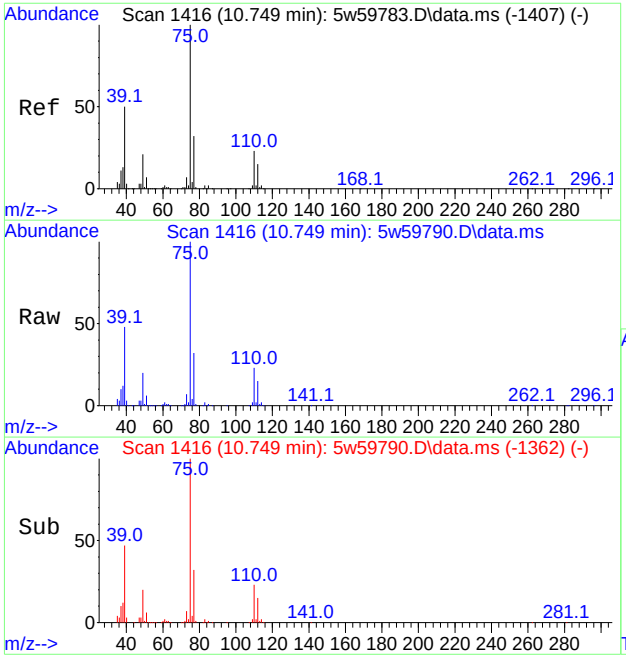


#64
METHYL ISOBUTYL KETONE
Concen: 12.46 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 532725

Ion	Ratio	Lower	Upper
58	100		
43	237.9	209.2	269.2
100	28.7	0.0	58.8
85	42.4	9.4	69.4

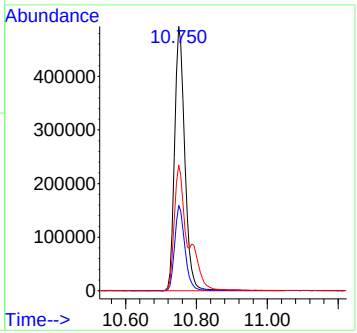


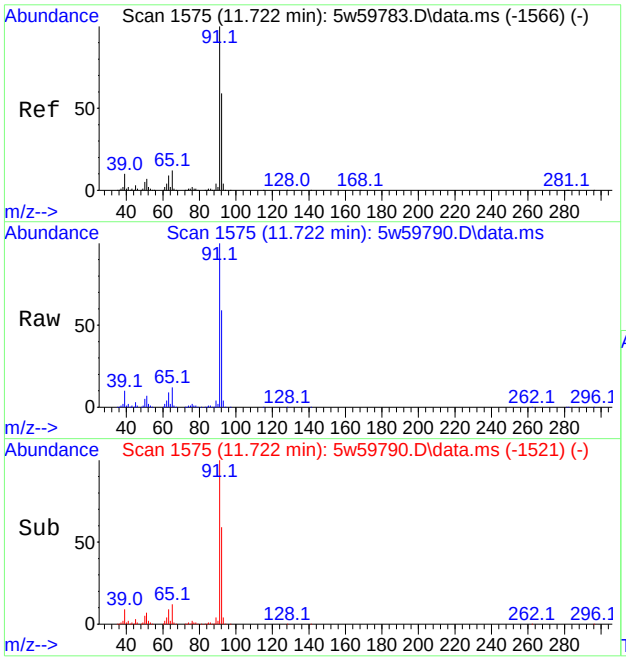


#65
cis-1,3-DICHLOROPROPENE
Concen: 9.61 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 990327

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.0	34.3	94.3

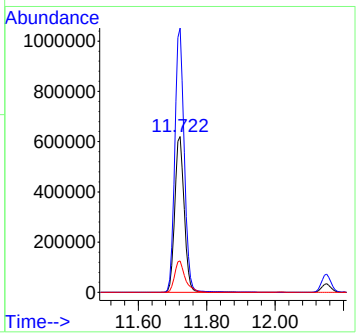


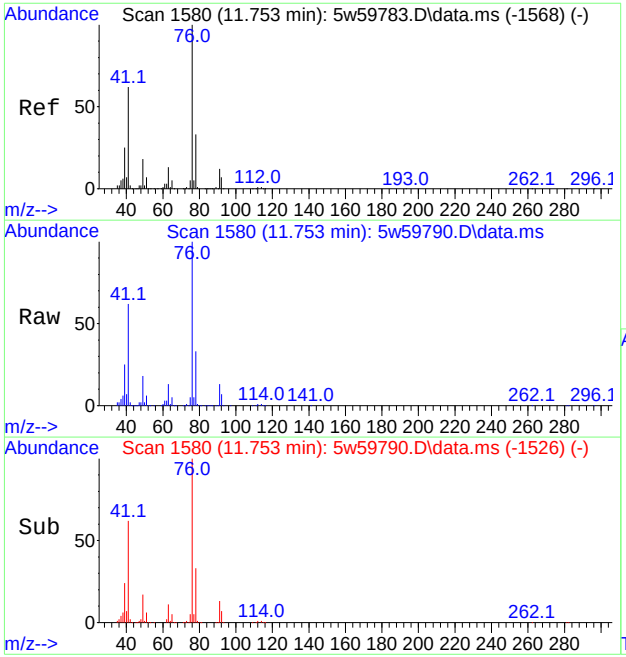


#66
TOLUENE
Concen: 11.05 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 92 Resp: 1196655

Ion	Ratio	Lower	Upper
92	100		
91	169.3	140.1	200.1
65	22.9	0.0	53.1

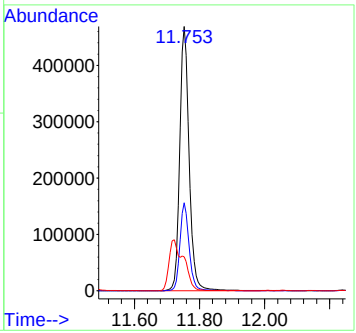


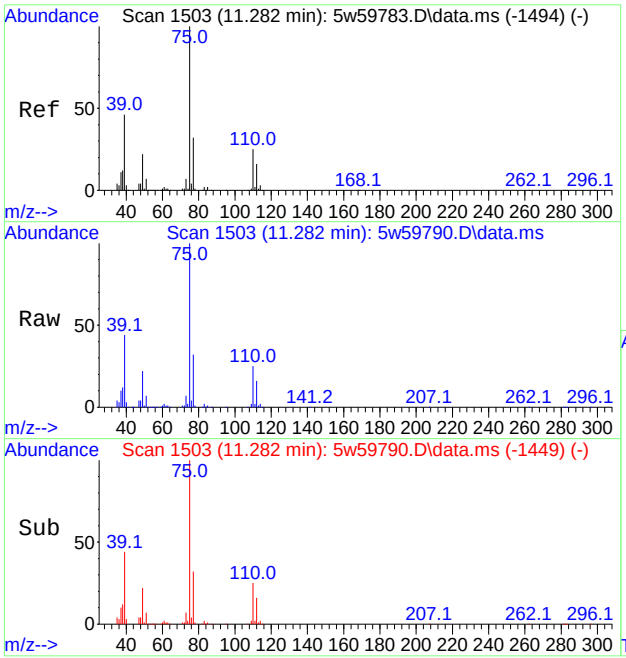


#67
1,3-DICHLOROPROPANE
Concen: 10.77 PPBV
RT: 11.753 min Scan# 1580
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 950675

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	0.0	7.1	13.1#

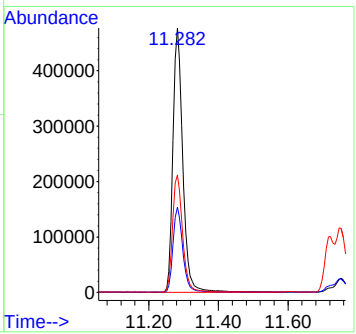


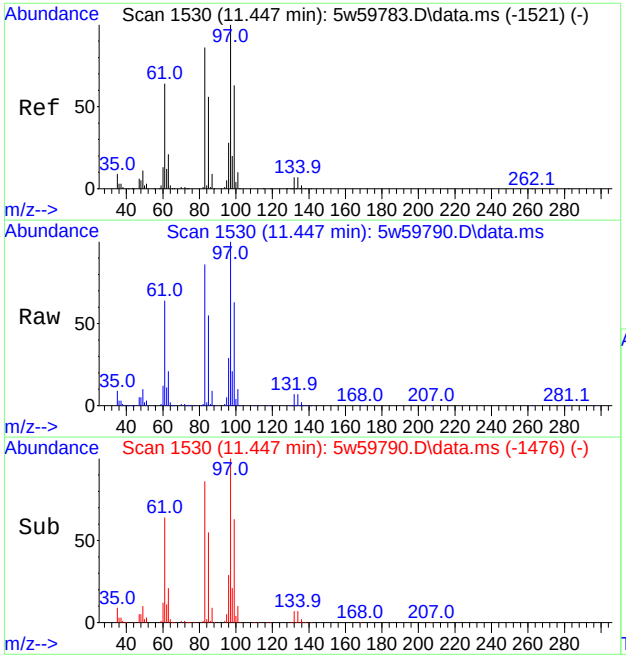


#68
trans-1,3-DICHLOROPROPENE
Concen: 9.66 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 940495

Ion	Ratio	Lower	Upper
75	100		
77	32.2	1.6	61.6
39	45.6	16.1	76.1

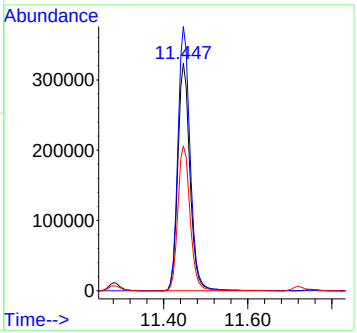


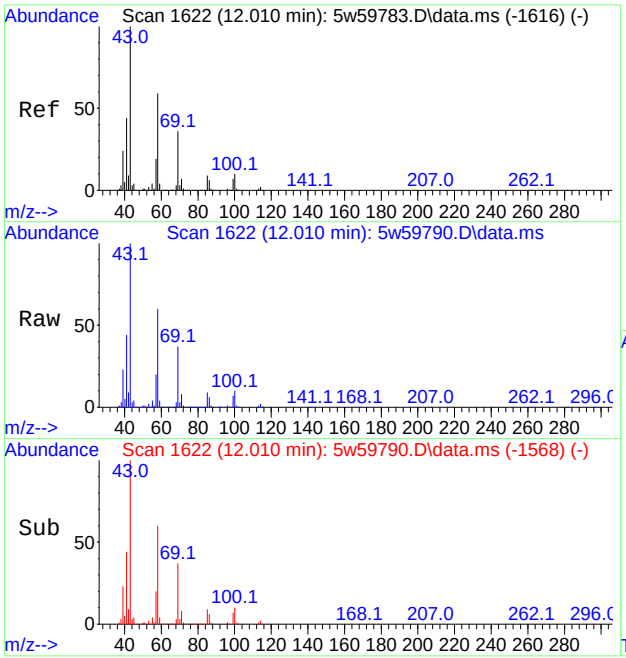


#69
1,1,2-TRICHLOROETHANE
Concen: 10.99 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 646298

Ion	Ratio	Lower	Upper
83	100		
97	116.7	86.3	146.3
85	64.9	35.3	95.3

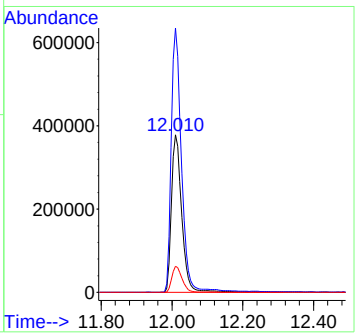


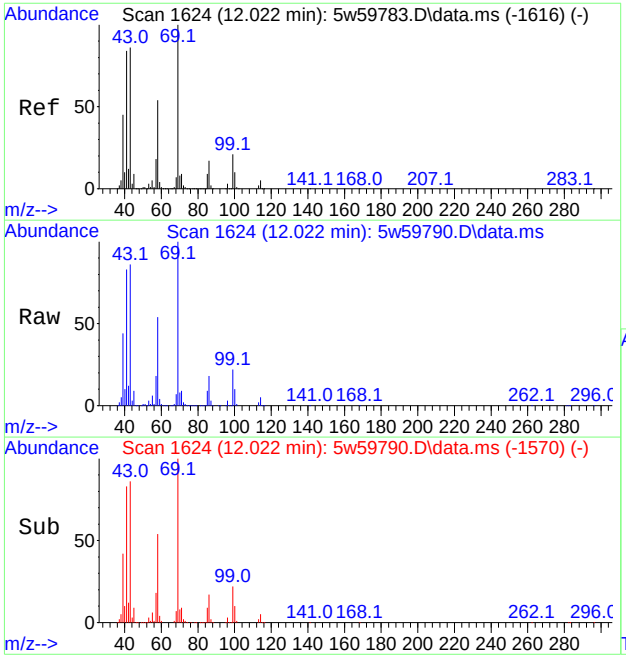


#71
2-HEXANONE
Concen: 12.62 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 770539

Ion	Ratio	Lower	Upper
58	100		
43	166.2	137.2	197.2
100	16.7	0.0	46.9

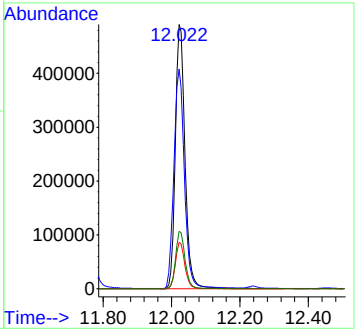


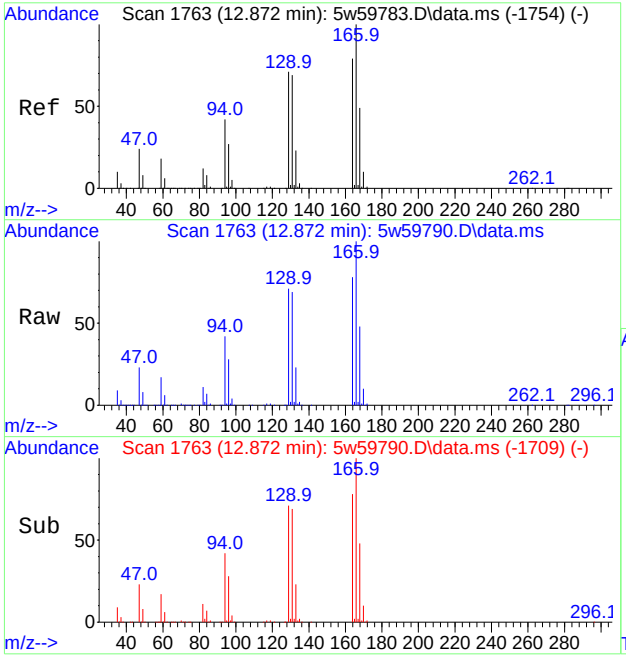


#72
ETHYL METHACRYLATE
Concen: 11.99 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 966723

Ion	Ratio	Lower	Upper
69	100		
41	90.6	64.0	119.0
86	17.3	12.0	22.4
99	21.4	15.0	27.8

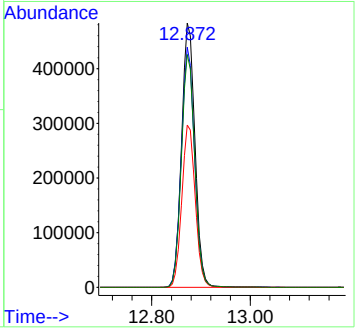


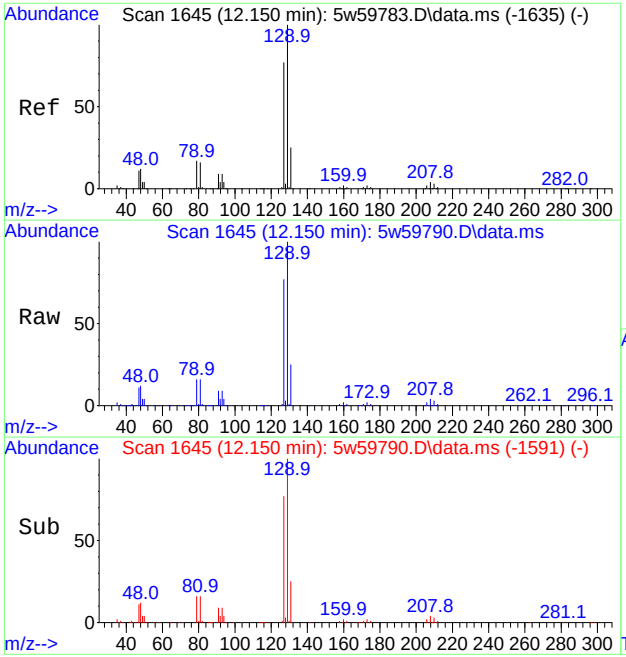


#73
TETRACHLOROETHYLENE
Concen: 11.49 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:164 Resp: 915172

Ion	Ratio	Lower	Upper
164	100		
129	90.3	59.7	119.7
168	62.0	32.2	92.2
131	88.1	57.8	117.8

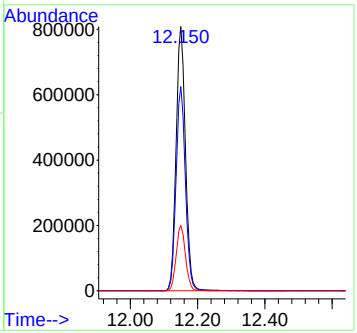


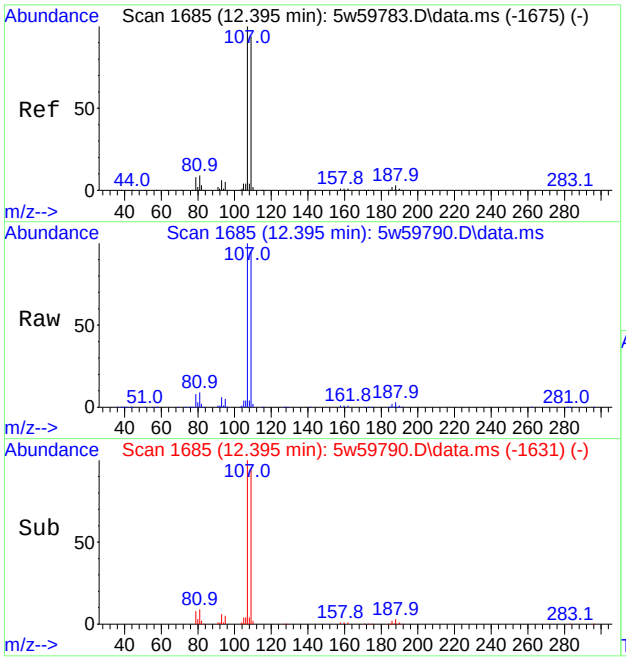


#74
DIBROMOCHLOROMETHANE
Concen: 11.39 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:129 Resp: 1566467

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.7	0.0	54.5

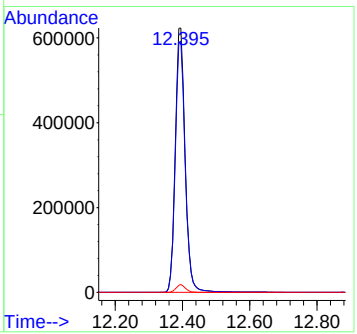


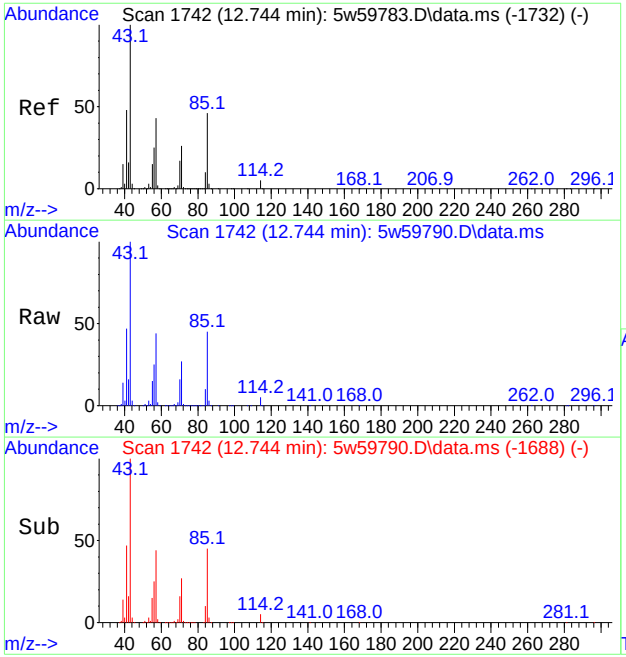


#75
1,2-DIBROMOETHANE
Concen: 11.89 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:107 Resp: 1272221

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	2.8	0.0	32.8

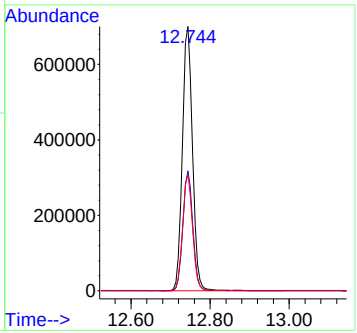


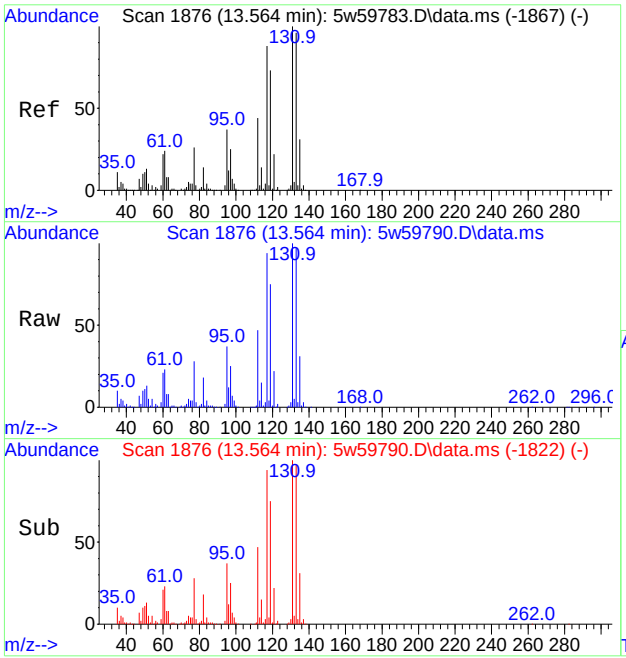


#76
OCTANE
Concen: 11.27 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1249572

Ion	Ratio	Lower	Upper
43	100		
85	44.7	14.6	74.6
57	43.4	13.7	73.7

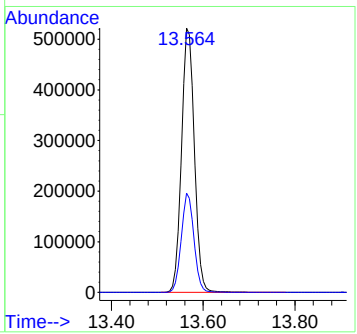


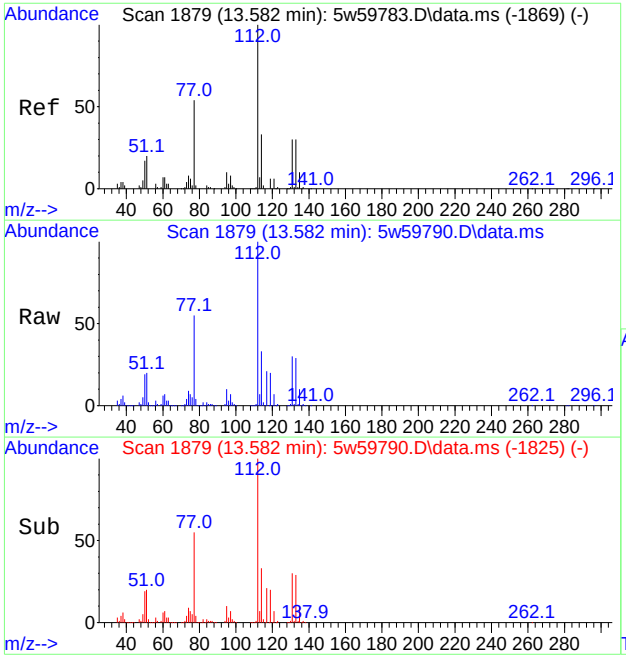


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 11.62 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:131 Resp: 1017442

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

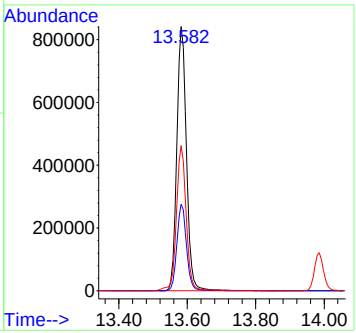


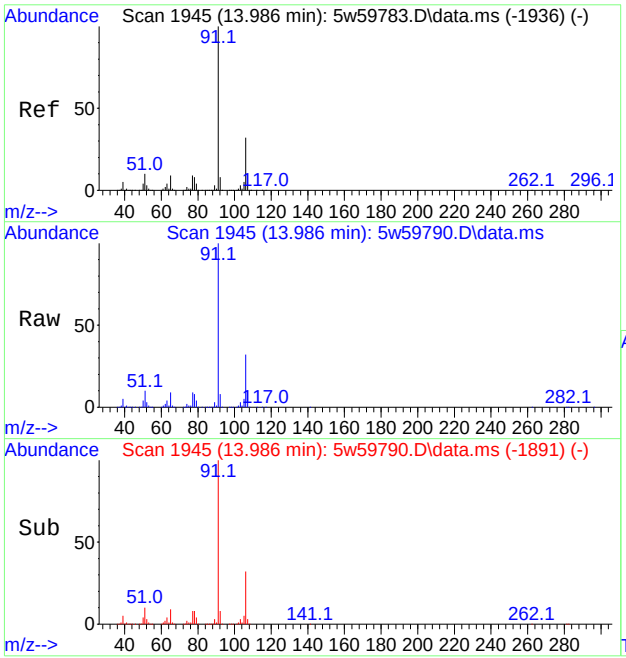


#78
CHLOROBENZENE
Concen: 11.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:112 Resp: 1647850

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.5	25.4	85.4

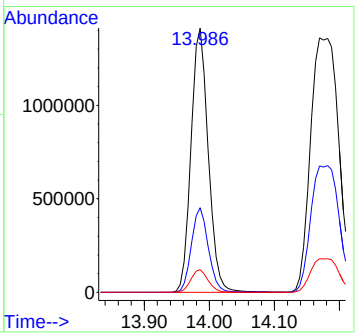


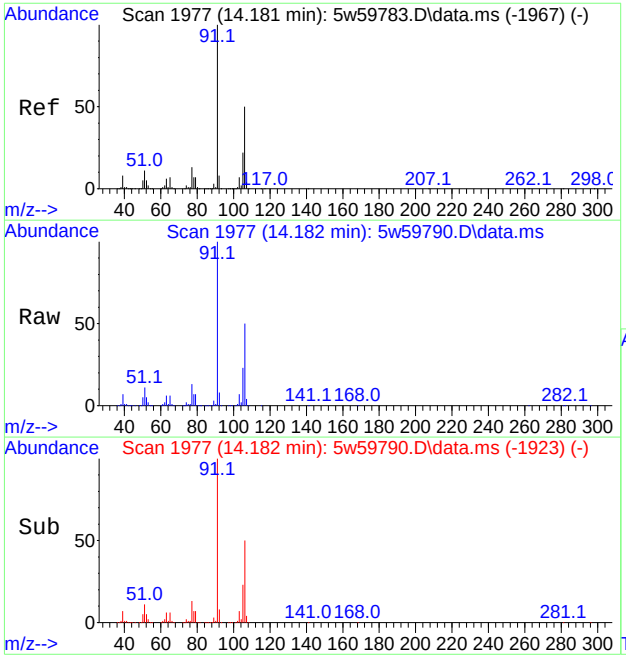


#79
ETHYLBENZENE
Concen: 11.61 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2597260

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.3	61.3
77	8.6	0.0	38.6

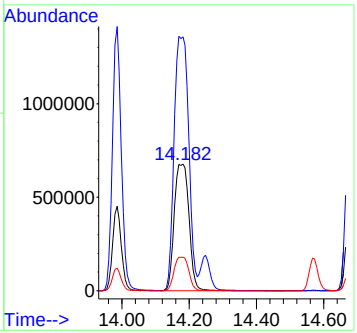


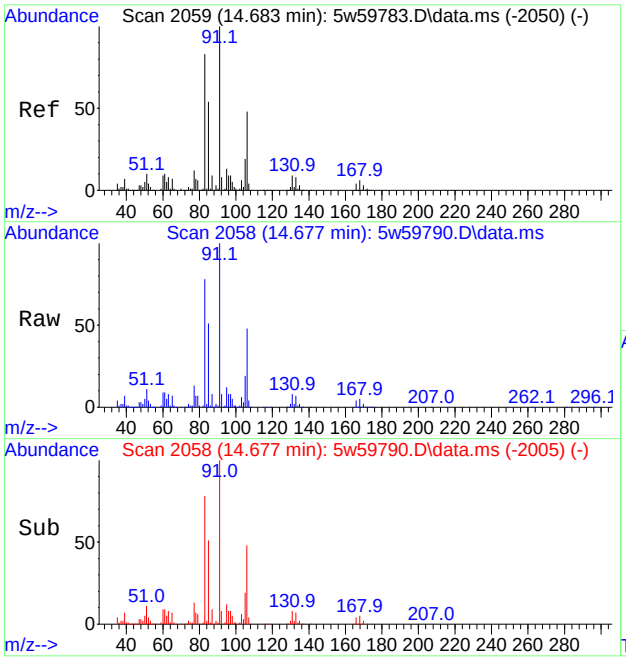


#80
m,p-XYLENE
Concen: 23.24 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 2050019

Ion	Ratio	Lower	Upper
106	100		
91	200.2	171.0	231.0
77	26.6	0.0	56.7

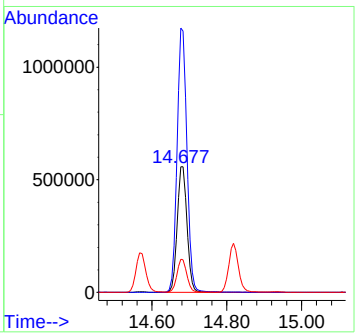


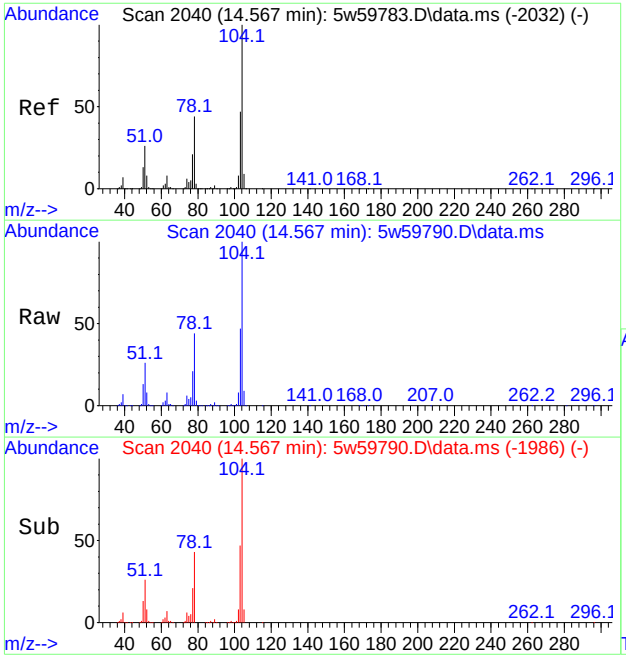


#81
o-XYLENE
Concen: 12.30 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 1016013

Ion	Ratio	Lower	Upper
106	100		
91	209.6	181.6	241.6
77	26.2	0.0	56.6

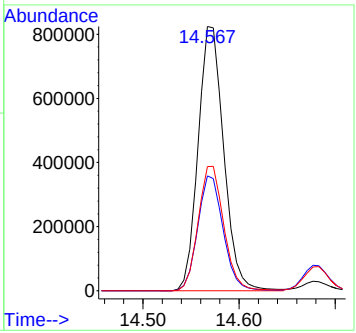


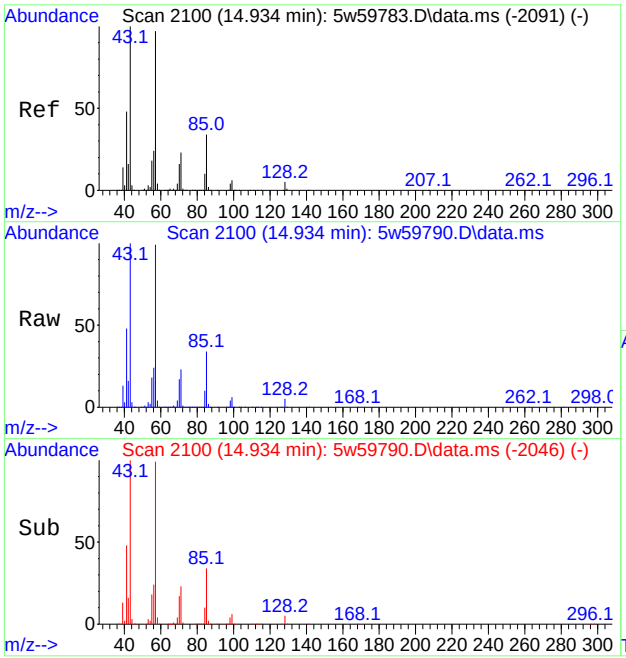


#82
STYRENE
Concen: 11.88 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:104 Resp: 1531560

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.1	17.2	77.2

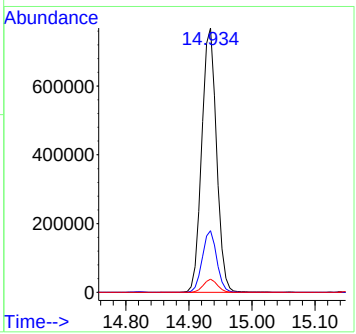


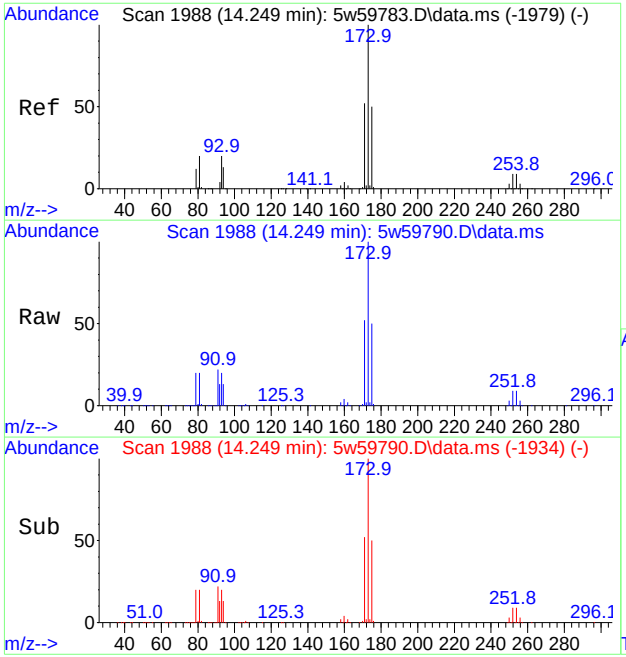


#83
NONANE
Concen: 11.11 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1246325

Ion	Ratio	Lower	Upper
43	100		
71	22.9	0.0	52.7
128	4.8	0.0	34.7

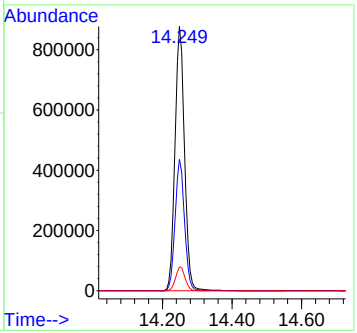


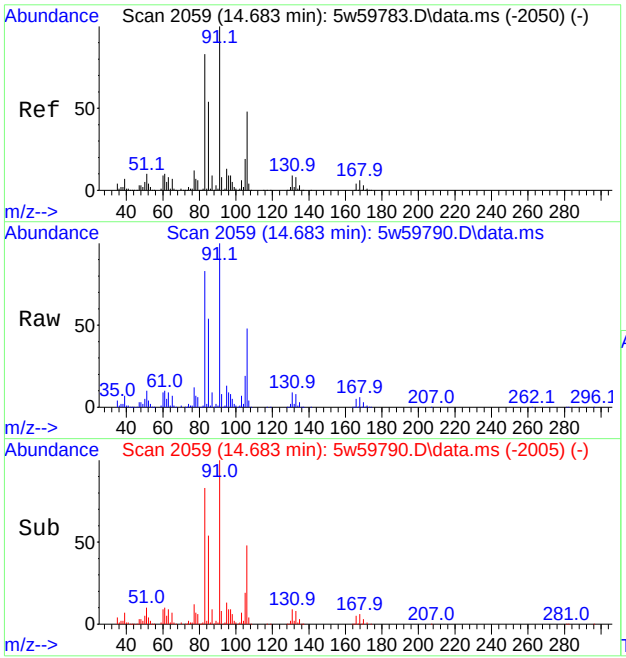


#84
BROMOFORM
Concen: 12.32 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:173 Resp: 1671641

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	9.0	0.0	39.0

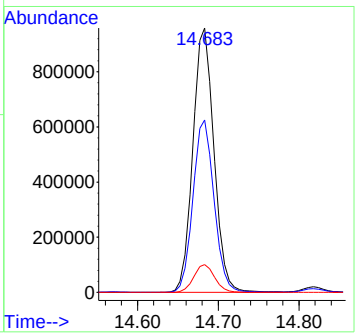


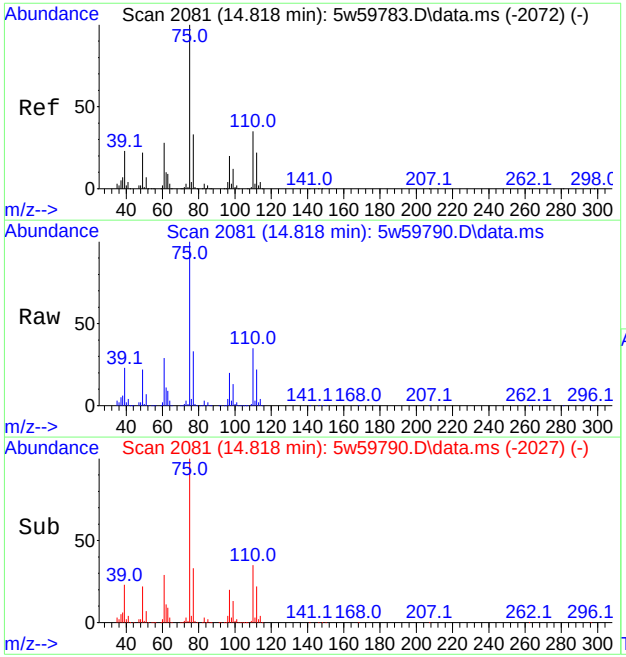


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.14 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1743965

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.2	95.2
131	10.5	0.0	40.3

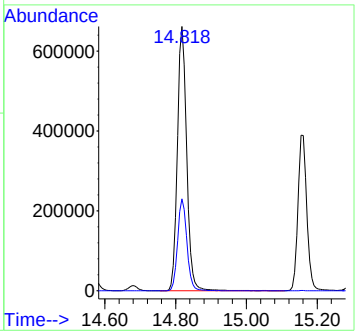


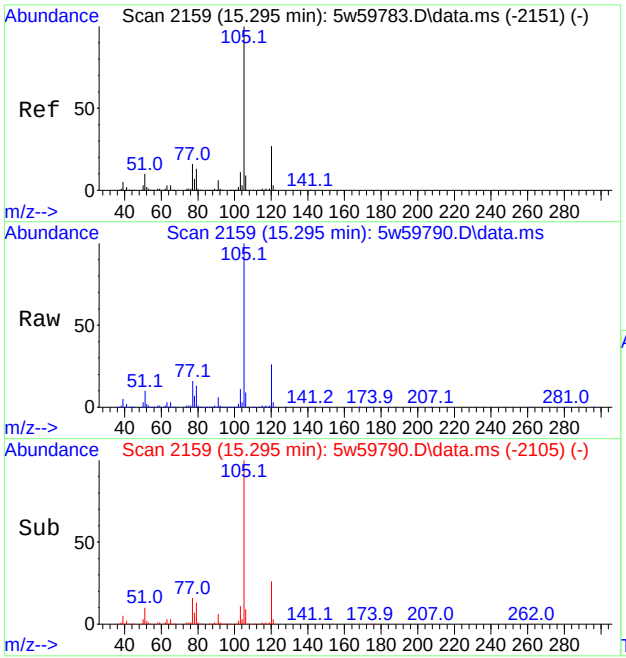


#87
1,2,3-TRICHLOROPROPANE
Concen: 10.42 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 1202955

Ion	Ratio	Lower	Upper
75	100		
110	34.7	4.4	64.4

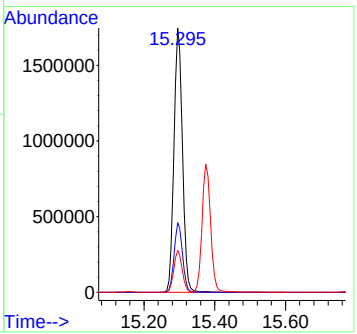


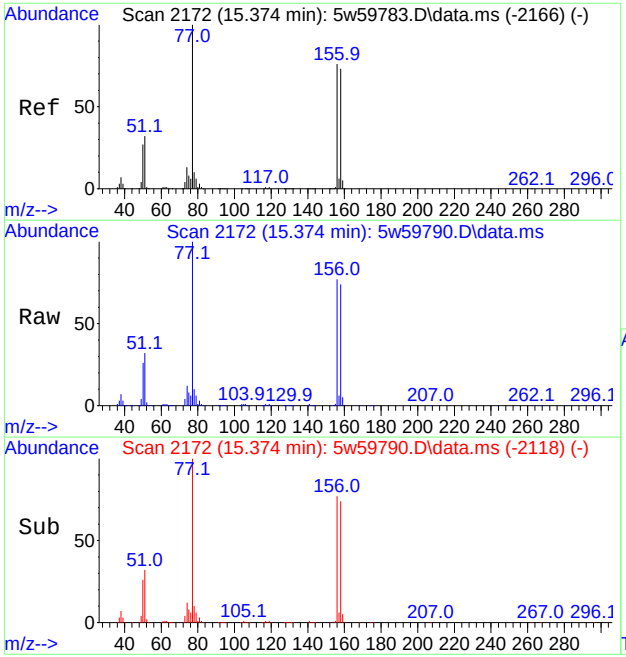


#88
ISOPROPYLBENZENE
Concen: 11.51 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2910298

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

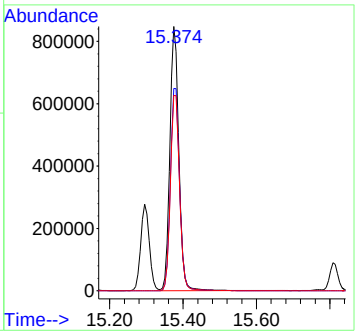


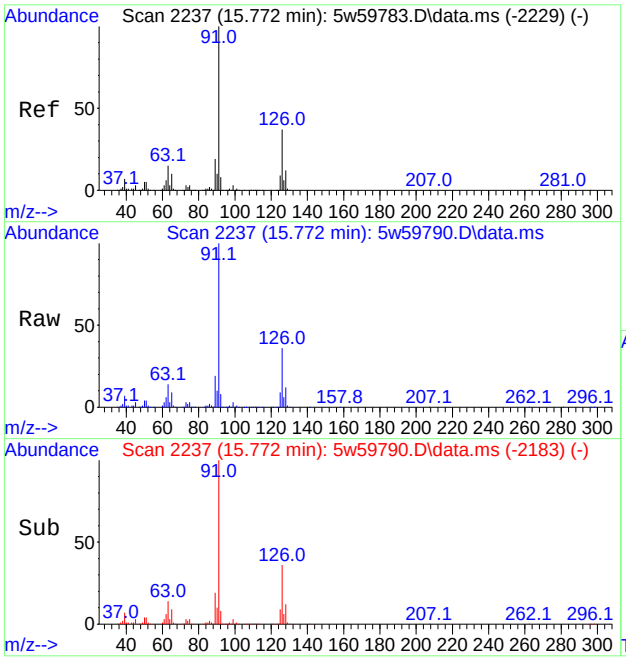


#89
BROMOBENZENE
Concen: 10.87 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 77 Resp: 1429493

Ion	Ratio	Lower	Upper
77	100		
156	78.9	54.9	101.9
158	76.6	53.5	99.3

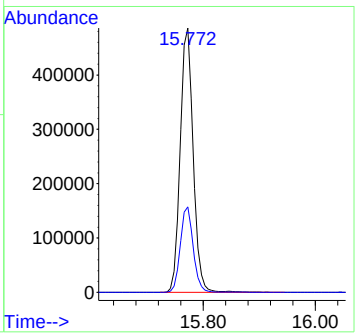


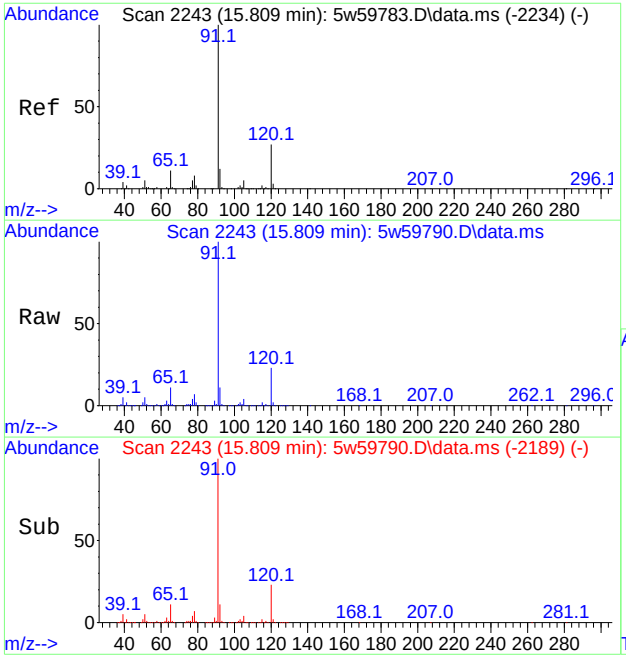


#90
2-CHLOROTOLUENE
Concen: 11.13 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:126 Resp: 779180

Ion	Ratio	Lower	Upper
126	100		
128	32.5	2.7	62.7

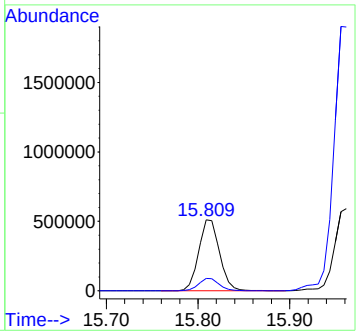


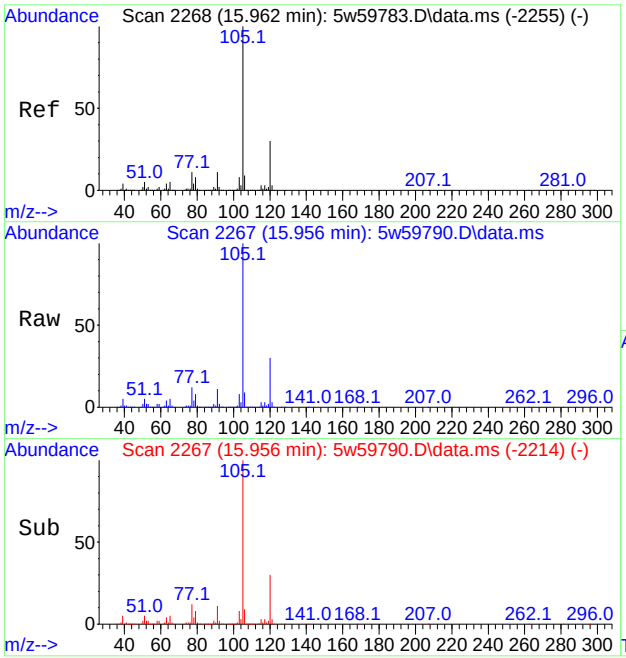


#91
n-PROPYLBENZENE
Concen: 11.92 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:120 Resp: 807953

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

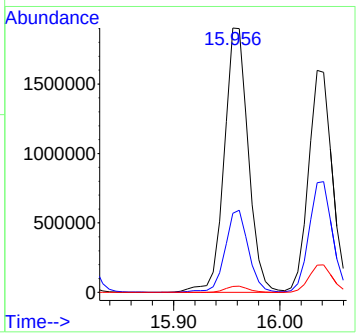


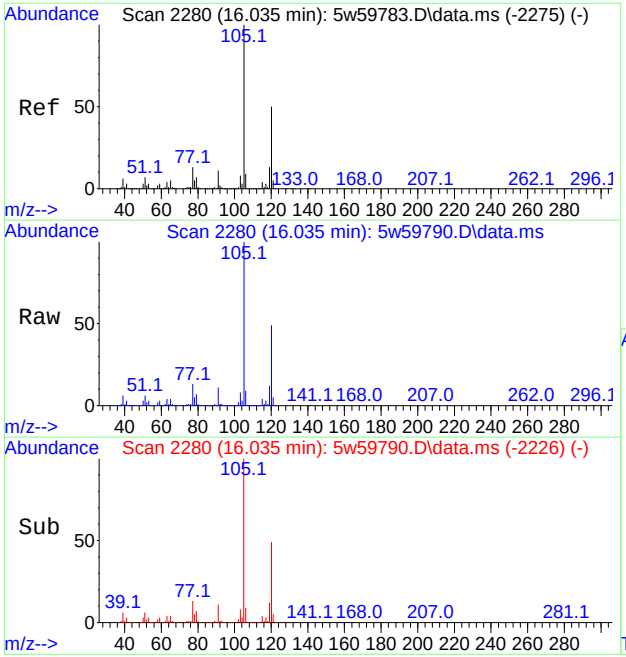


#92
4-ETHYLTOLUENE
Concen: 12.93 PPBV
RT: 15.956 min Scan# 2267
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2990249

Ion	Ratio	Lower	Upper
105	100		
120	30.3	0.0	59.9
119	2.3	0.0	32.3

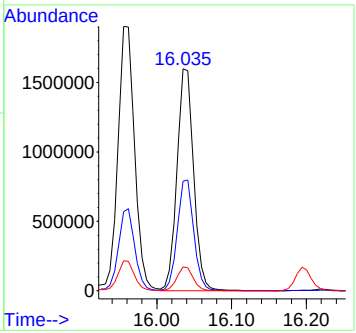


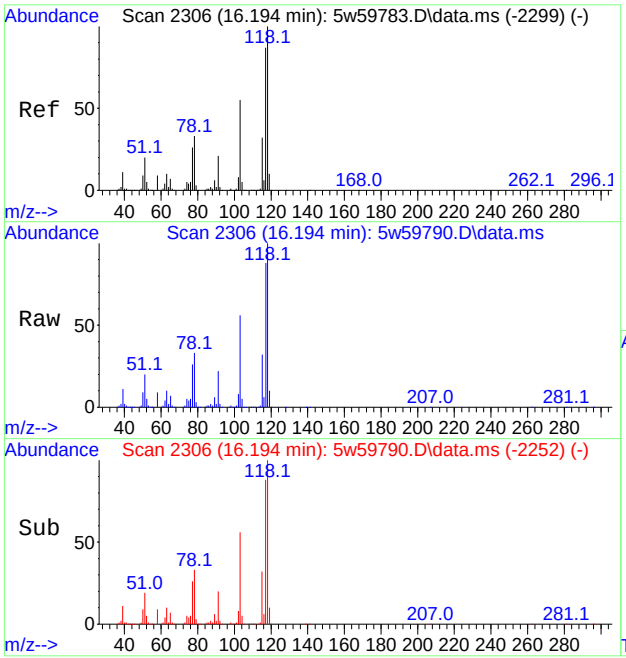


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.54 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2480601

Ion	Ratio	Lower	Upper
105	100		
120	49.3	19.4	79.4
91	10.7	0.0	40.8

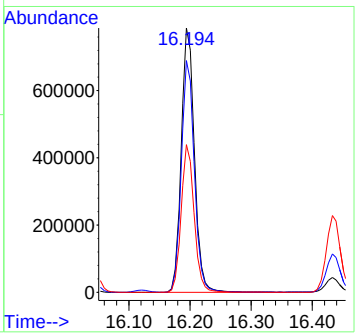


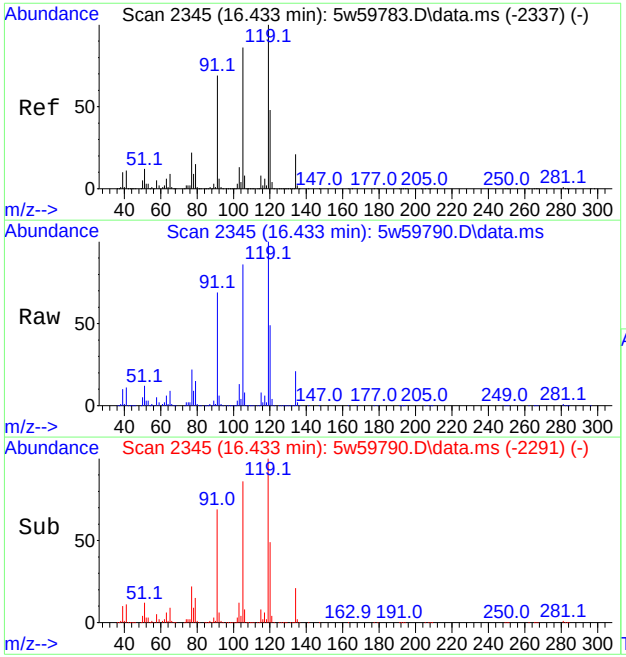


#94
ALPHA-METHYLSTYRENE
Concen: 11.12 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:118 Resp: 1177774

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.4	38.6	71.8

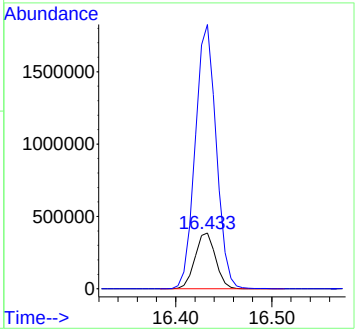


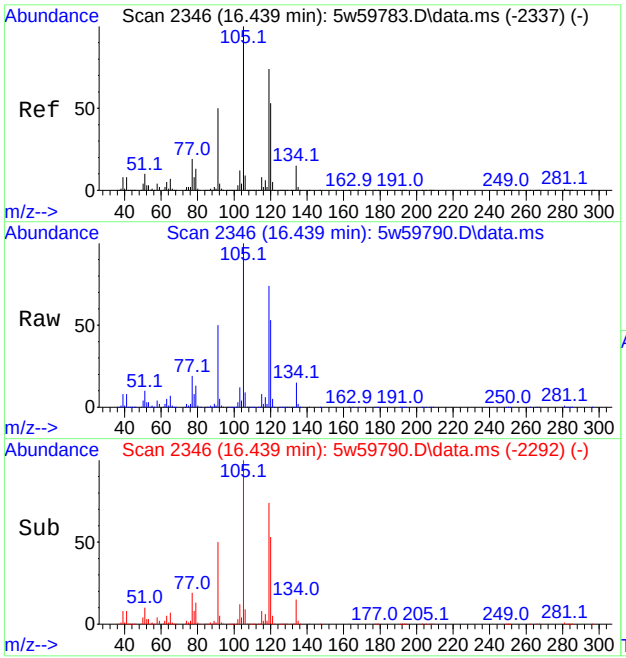


#95
tert-BUTYLBENZENE
Concen: 13.08 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 570968

Ion	Ratio	Lower	Upper
134	100		
119	485.6	459.3	519.3

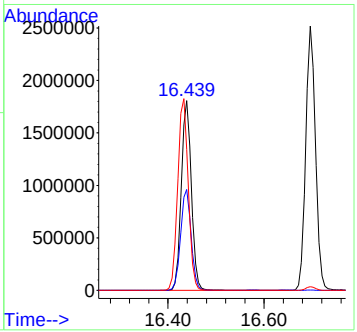


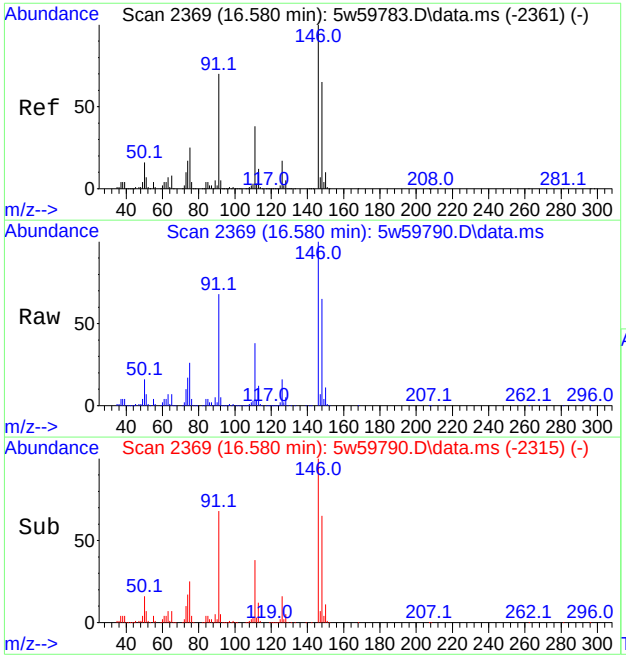


#96
1,2,4-TRIMETHYLBENZENE
Concen: 13.02 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2612198

Ion	Ratio	Lower	Upper
105	100		
120	55.9	25.7	85.7
119	106.1	75.7	135.7

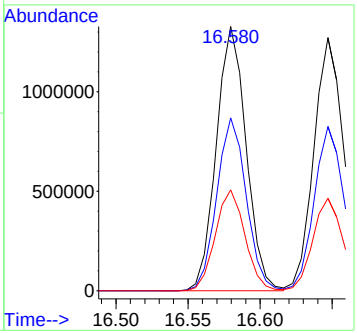


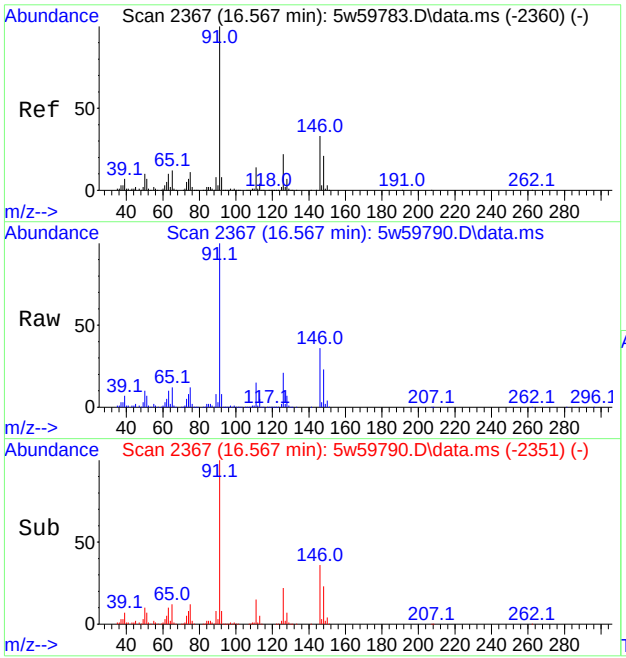


#97
m-DICHLOROBENZENE
Concen: 12.50 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1916772

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.8	94.8
111	38.1	8.2	68.2

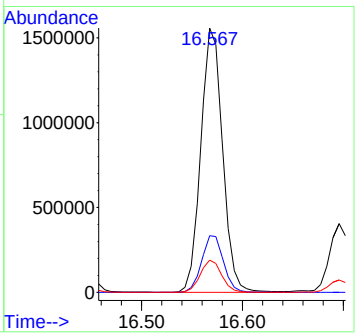


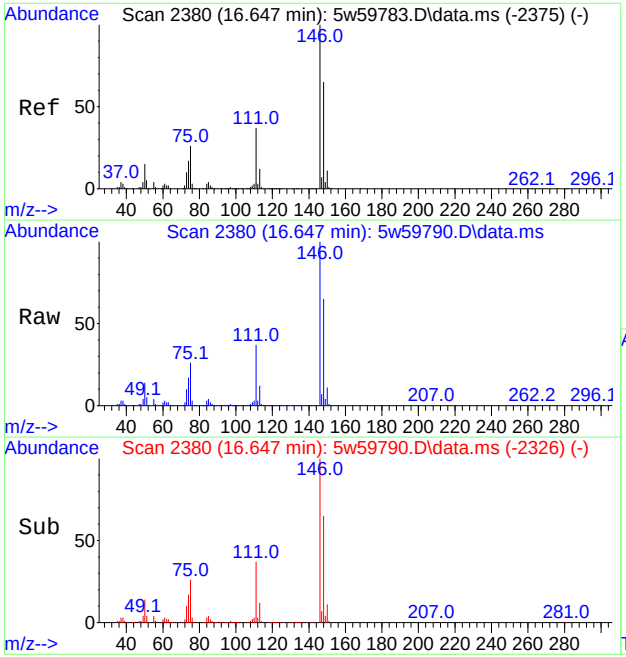


#98
BENZYL CHLORIDE
Concen: 12.63 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2335931

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.1	0.0	42.2

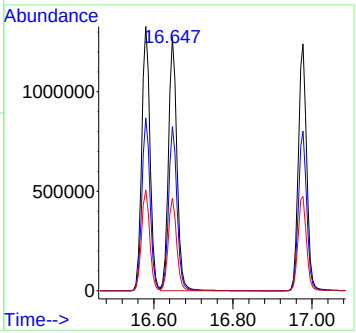


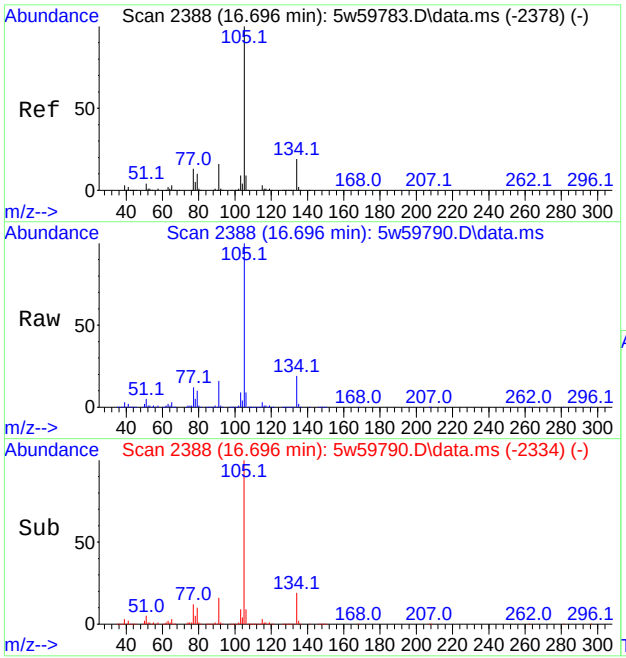


#99
p-DICHLOROBENZENE
Concen: 11.46 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1889997

Ion	Ratio	Lower	Upper
146	100		
148	64.7	34.6	94.6
111	36.6	6.7	66.7

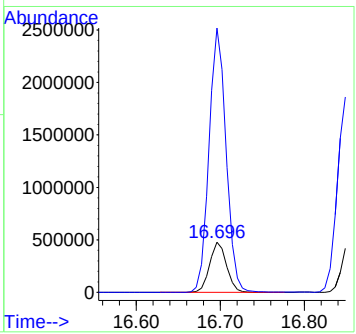


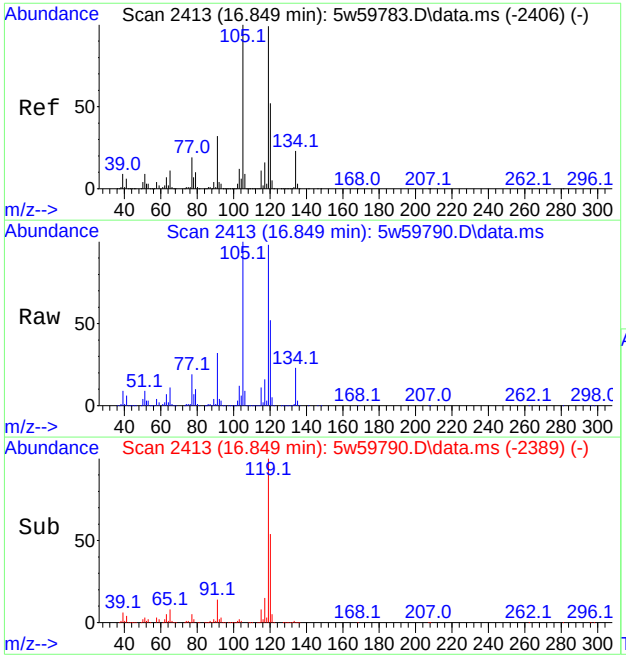


#100
sec-BUTYLBENZENE
Concen: 12.13 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 670798

Ion	Ratio	Lower	Upper
134	100		
105	530.0	502.5	562.5

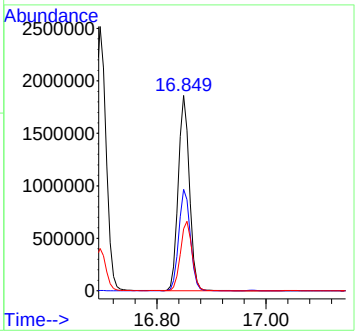


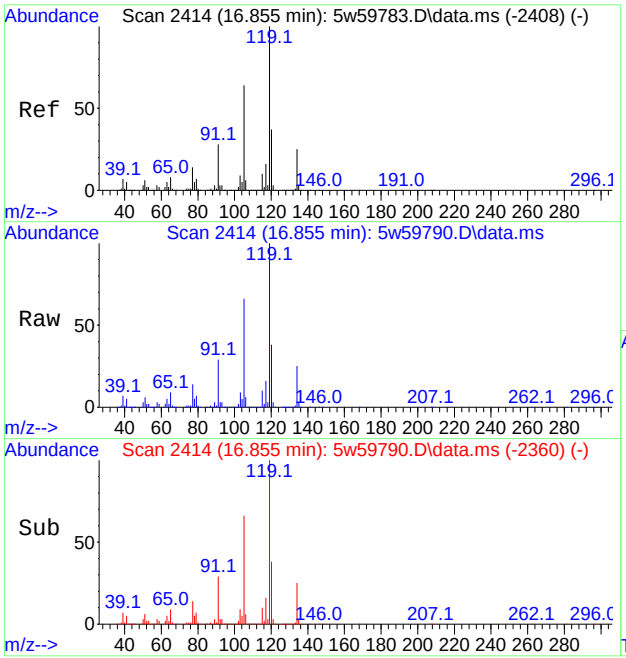


#101
1,2,3-TRIMETHYLBENZENE
Concen: 12.36 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2623929

Ion	Ratio	Lower	Upper
105	100		
120	53.6	23.5	83.5
91	37.1	7.4	67.4

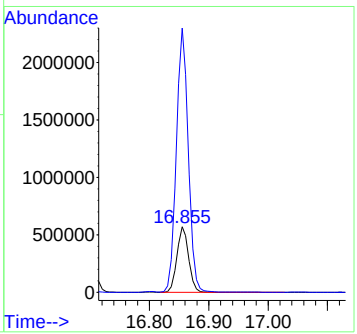


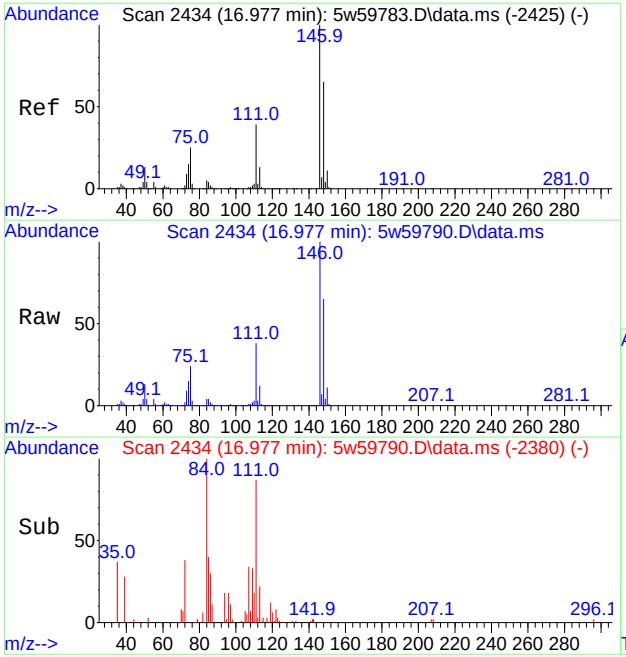


#102
p-ISOPROPYLTOLUENE
Concen: 12.67 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 794033

Ion	Ratio	Lower	Upper
134	100		
119	408.5	377.7	437.7

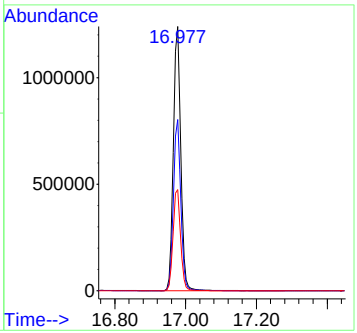


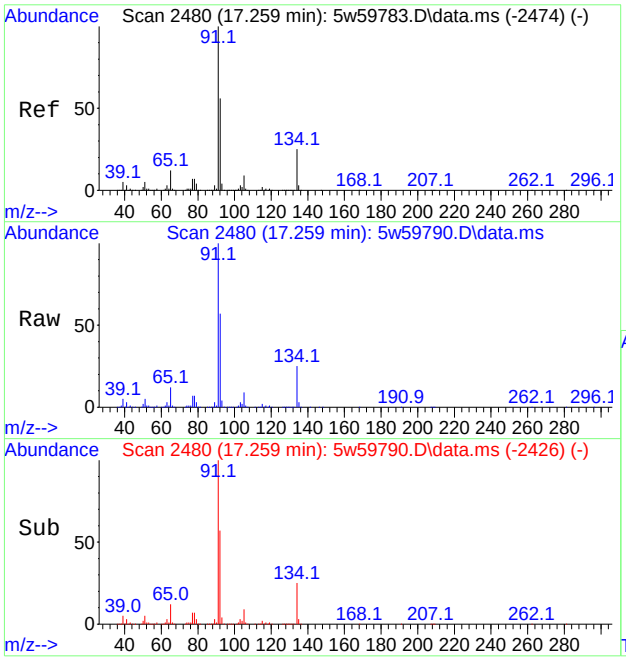


#103
o-DICHLOROBENZENE
Concen: 11.75 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1807576

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.3	94.3
111	38.9	9.2	69.2

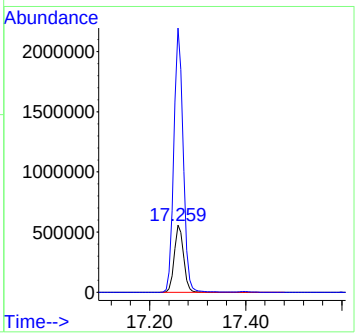


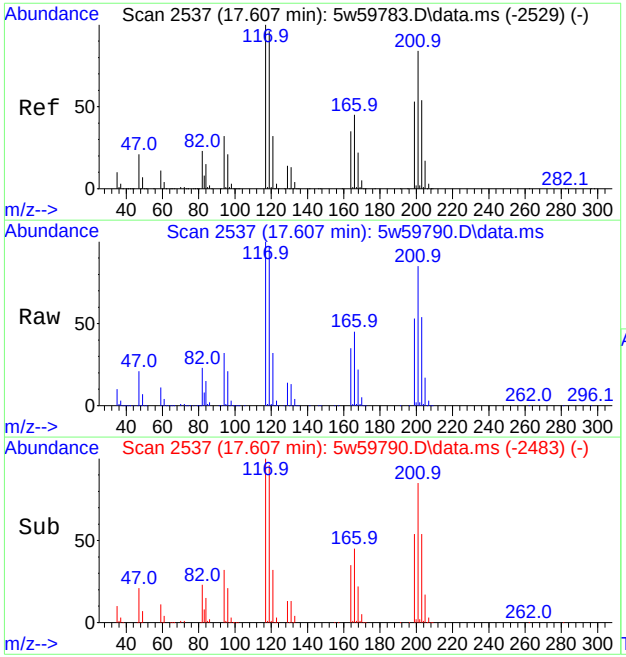


#104
n-BUTYLBENZENE
Concen: 12.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 753590

Ion	Ratio	Lower	Upper
134	100		
91	392.6	363.1	423.1

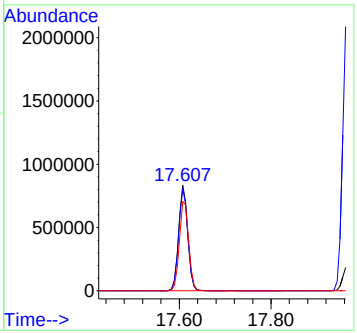


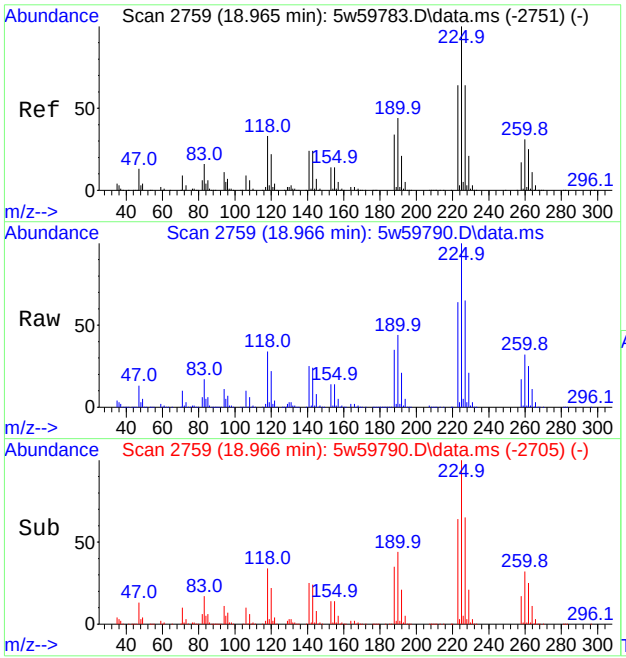


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1153176

Ion	Ratio	Lower	Upper
117	100		
119	96.2	67.2	124.8
201	86.7	61.1	113.5

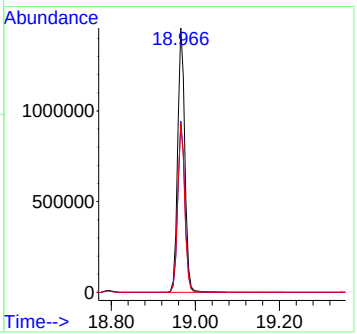


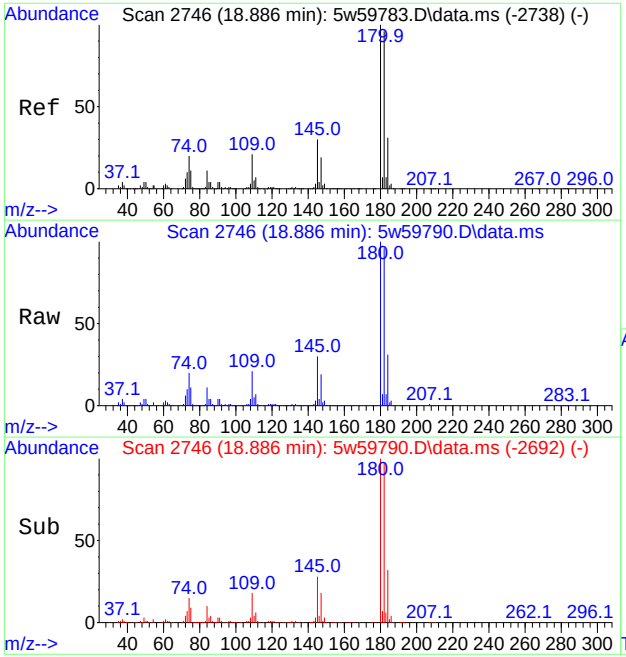


#106
HEXACHLOROBUTADIENE
Concen: 12.11 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:225 Resp: 1732361

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.4	33.3	93.3

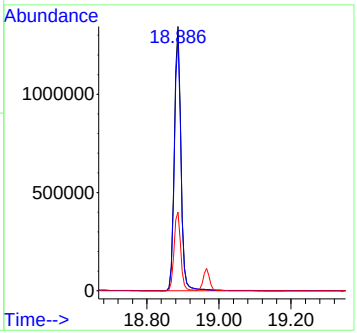


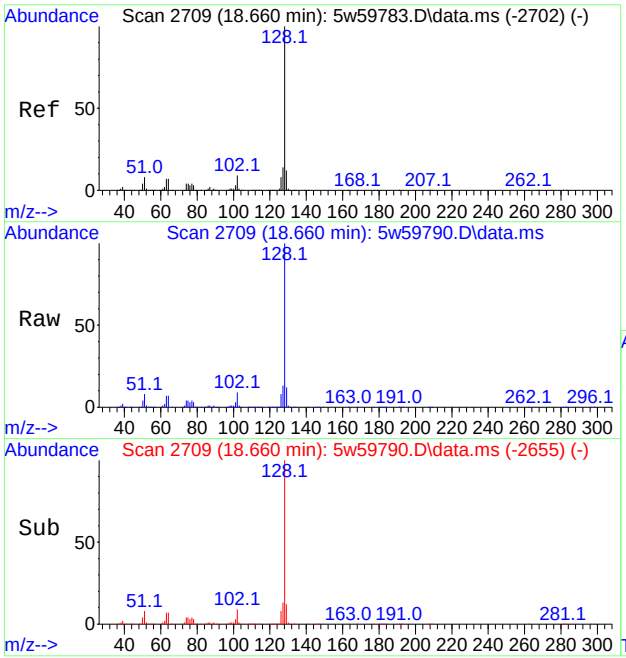


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.05 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:180 Resp: 1717833

Ion	Ratio	Lower	Upper
180	100		
182	95.9	65.4	125.4
145	29.7	0.0	59.4

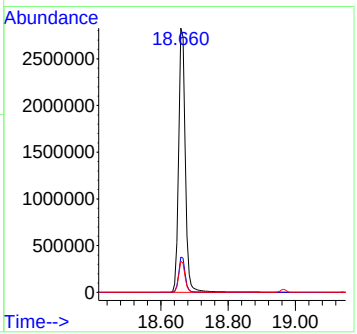


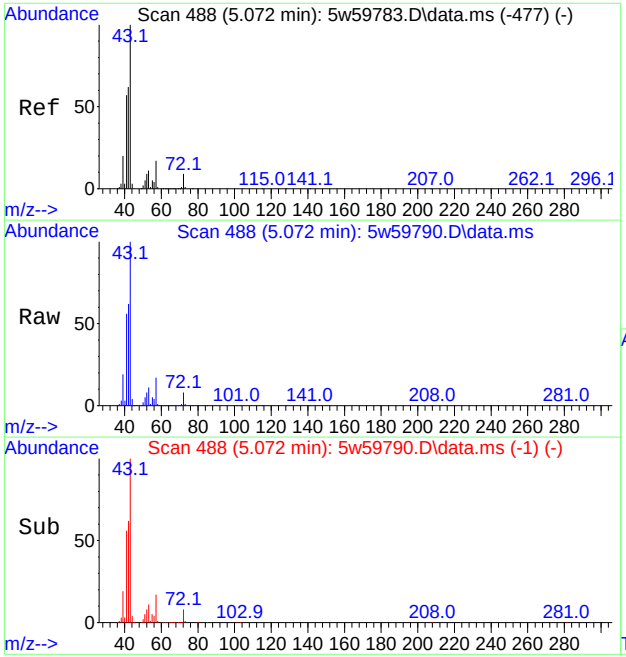


#108
NAPHTHALENE
Concen: 12.54 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:128 Resp: 3898122

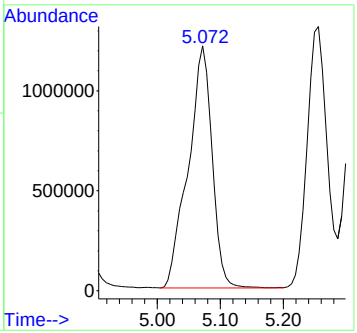
Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	43.3
129	11.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 10.55 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:TIC Resp: 3177953



7.7.11

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	470220	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2049823	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1097928	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	470220	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1392885	10.15	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.50%			
Target Compounds						Qvalue
2) FREON 115	3.371	119	326866	10.1459	PPBV	99
3) FREON 152A	3.445	65	308096	8.8346	PPBV	97
4) CHLORODIFLUOROMETHANE	3.475	67	159233	10.9155	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	818335	11.2032	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.549	85	1510102	11.2218	PPBV	98
7) PROPYLENE	3.500	41	319179	8.8431	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1145136	10.5076	PPBV	97
9) FREON 114	3.732	85	1491348	12.1231	PPBV	98
10) CHLOROMETHANE	3.665	52	137482	9.3028	PPBV	99
11) VINYL CHLORIDE	3.818	62	481278	10.5650	PPBV	99
12) 1,3-BUTADIENE	3.910	54	283401	10.3340	PPBV	98
13) n-BUTANE	3.946	43	441343	9.8480	PPBV	98
14) BROMOMETHANE	4.106	94	546023	11.2707	PPBV	100
15) CHLOROETHANE	4.228	64	210971	9.4930	PPBV	98
16) DICHLOROFLUOROMETHANE	4.289	67	1072755	11.0813	PPBV	99
17) ACETONITRILE	4.479	41	247921	9.6837	PPBV	100
18) ACROLEIN	4.570	56	151722	10.4286	PPBV	96
19) FREON 123	4.589	83	1267783	11.3202	PPBV #	71
20) FREON 123A	4.632	117	778337	12.1007	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.791	101	1341181	11.6680	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	834842	9.0540	PPBV	97
23) ACETONE	4.674	58	187128	10.1467	PPBV	90
24) PENTANE	5.072	42	413834	8.6386	PPBV	99
25) IODOMETHANE	5.256	142	1685190	11.7624	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	518986	10.2907	PPBV	92
27) CARBON DISULFIDE	5.672	76	1376641	10.4175	PPBV	98
28) ETHANOL	4.320	45	171992	11.1335	PPBV	99
29) BROMOETHENE	4.479	106	567142	11.8700	PPBV	100
30) ACRYLONITRILE	5.042	52	297460	9.5306	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	451379	9.5667	PPBV	91
32) 3-CHLOROPROPENE	5.519	76	215893	9.5054	PPBV	87
33) FREON 113	5.641	151	951655	11.3406	PPBV	97
34) TRANS-1,2-DICHLOROETHY...	6.241	96	526395	9.9548	PPBV	93
35) TERTIARY BUTYL ALCOHOL	5.378	59	919943	9.7568	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1337117	10.0464	PPBV	97
37) TETRAHYDROFURAN	7.856	72	200962	11.0075	PPBV	91
38) HEXANE	7.379	57	724495	9.6508	PPBV	98
39) VINYL ACETATE	6.565	86	82739	10.8977	PPBV #	70
40) 1,1-DICHLOROETHANE	6.424	63	921820	9.5004	PPBV	99
41) METHYL ETHYL KETONE	6.797	72	211335	11.6357	PPBV #	85
42) cis-1,2-DICHLOROETHYLENE	7.195	96	554718	9.6249	PPBV	95
43) DIISOPROPYL ETHER	7.385	59	226741	11.4869	PPBV	95
44) ETHYL ACETATE	7.415	61	165646	11.9353	PPBV #	1
45) METHYL ACRYLATE	7.403	55	907802	12.2101	PPBV	98
46) CHLOROFORM	7.476	83	1168778	11.1790	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	832763	9.8014	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.406	97	1211580	11.1104	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1349067	11.3900	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	775572	10.6757	PPBV		99
52)	BENZENE	8.853	78	1495903	10.8929	PPBV		98
53)	CYCLOHEXANE	9.104	84	581961	10.6075	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.348	71	291255	10.5057	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	792757	11.3323	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	576732	9.0459	PPBV		99
57)	DIBROMOMETHANE	9.630	174	860591	11.0058	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1100529	11.0454	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1346052	11.0969	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2287516	10.5261	PPBV		99
61)	1,4-DIOXANE	9.899	88	347837	11.1041	PPBV		92
62)	HEPTANE	10.180	43	728662	9.2215	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	501935	11.2148	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	463649	11.4439	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.749	75	999428	10.2319	PPBV		95
66)	TOLUENE	11.716	92	1111812	10.8312	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	888447	10.6183	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	902397	9.7868	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	624758	11.2090	PPBV		100
71)	2-HEXANONE	12.010	58	674815	11.7504	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	901895	11.8904	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	962806	12.8556	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.150	129	1573733	12.1695	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1269369	12.6163	PPBV		100
76)	OCTANE	12.738	43	1053564	10.1020	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1003830	12.1912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1619008	11.8010	PPBV		100
79)	ETHYLBENZENE	13.980	91	2508035	11.9174	PPBV		100
80)	m,p-XYLENE	14.181	106	1924720	23.2075	PPBV		99
81)	o-XYLENE	14.677	106	949484	12.2264	PPBV		100
82)	STYRENE	14.567	104	1494724	12.3322	PPBV		99
83)	NONANE	14.928	43	1096357	10.3927	PPBV		97
84)	BROMOFORM	14.249	173	1685100	13.2101	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1656478	12.2657	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1130272	10.4090	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2741340	11.5284	PPBV		100
89)	BROMOBENZENE	15.374	77	1335269	10.7933	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	750782	11.4000	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	767167	12.0340	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2799486	12.8708	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2378299	11.7612	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1185359	11.8976	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	543620	13.2410	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2520167	13.3550	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1855781	12.8649	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2204108	12.6776	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1844102	11.8897	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	617709	11.8779	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2525370	12.6546	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	778885	13.2130	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1713925	11.8444	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	715520	12.3936	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1003668	10.0858	PPBV		99
106)	HEXACHLOROBUTADIENE	18.965	225	1793051	13.3307	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1773089	13.2234	PPBV		100
108)	NAPHTHALENE	18.660	128	3918365	13.4079	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	2785944	9.7977	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

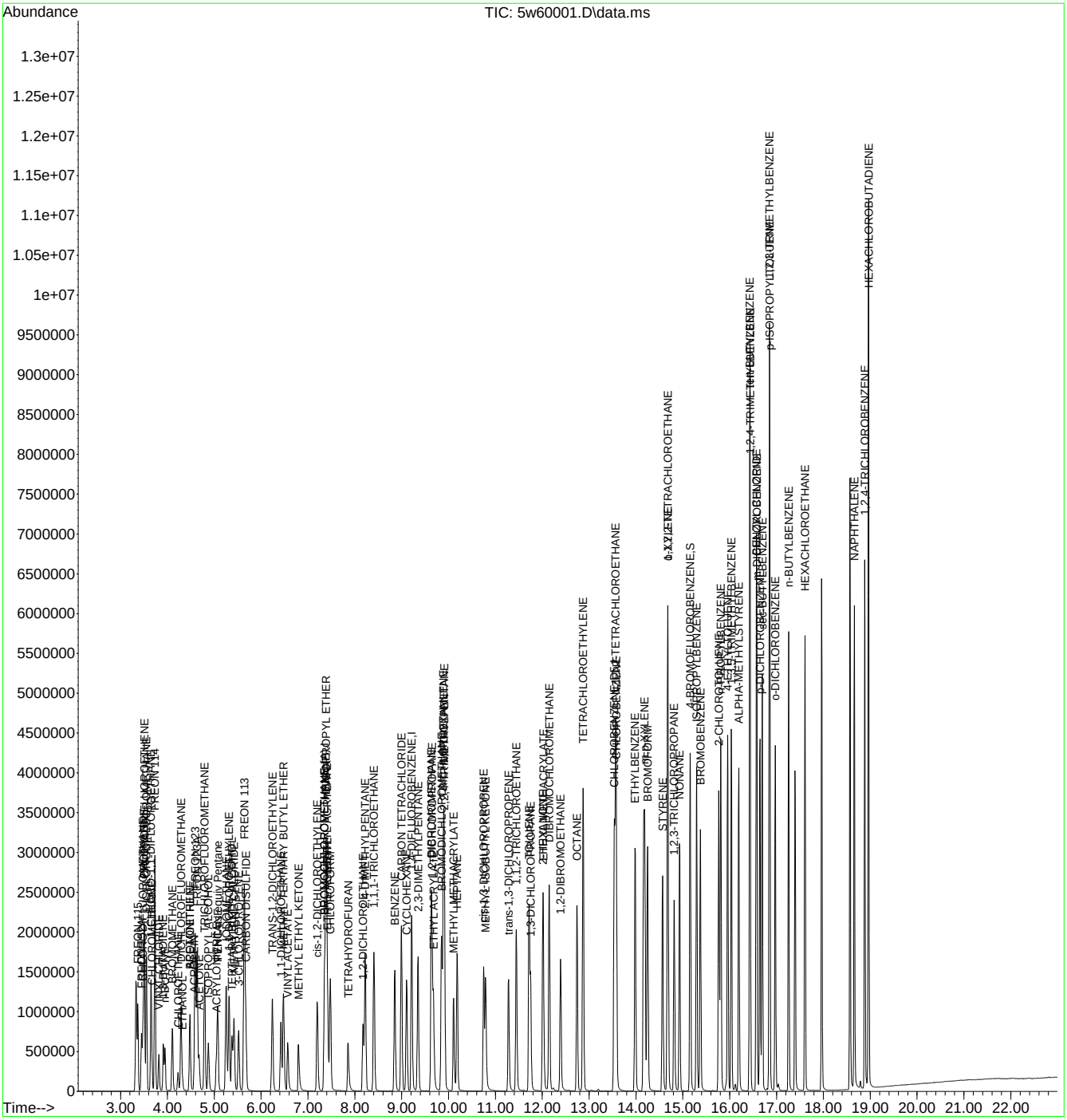
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60033.D
Acq On : 25 Nov 2025 11:25 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:02 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	479901	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2125026	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1123740	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	479901	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1391820	9.91	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.10%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	341898	10.3984	PPBV	98
3) FREON 152A	3.451	65	353272	9.9257	PPBV	95
4) CHLORODIFLUOROMETHANE	3.482	67	173022	11.6215	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	873282	11.7142	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	1652126	12.0295	PPBV	98
7) PROPYLENE	3.500	41	356843	9.6872	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1210854	10.8865	PPBV	97
9) FREON 114	3.739	85	1507733	12.0090	PPBV	99
10) CHLOROMETHANE	3.671	52	142185	9.4269	PPBV	94
11) VINYL CHLORIDE	3.824	62	502868	10.8162	PPBV	99
12) 1,3-BUTADIENE	3.916	54	294293	10.5147	PPBV	97
13) n-BUTANE	3.953	43	484069	10.5835	PPBV	98
14) BROMOMETHANE	4.112	94	574752	11.6244	PPBV	100
15) CHLOROETHANE	4.228	64	229450	10.1162	PPBV	98
16) DICHLOROFLUOROMETHANE	4.295	67	1162359	11.7647	PPBV	99
17) ACETONITRILE	4.485	41	257625	9.8597	PPBV	100
18) ACROLEIN	4.577	56	169230	11.3974	PPBV	98
19) FREON 123	4.595	83	1356633	11.8692	PPBV #	71
20) FREON 123A	4.638	117	798045	12.1568	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.797	101	1445936	12.3256	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	919831	9.7744	PPBV	97
23) ACETONE	4.675	58	209348	11.1226	PPBV	87
24) PENTANE	5.078	42	462352	9.4567	PPBV	99
25) IODOMETHANE	5.256	142	1722863	11.7828	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	544689	10.5825	PPBV	96
27) CARBON DISULFIDE	5.678	76	1513140	11.2195	PPBV	97
28) ETHANOL	4.320	45	185770	11.7828	PPBV	100
29) BROMOETHENE	4.485	106	578981	11.8733	PPBV	99
30) ACRYLONITRILE	5.048	52	330135	10.3641	PPBV	100
31) METHYLENE CHLORIDE	5.427	84	487310	10.1199	PPBV	92
32) 3-CHLOROPROPENE	5.525	76	236546	10.2046	PPBV	85
33) FREON 113	5.641	151	957758	11.1831	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	556254	10.3073	PPBV	96
35) TERTIARY BUTYL ALCOHOL	5.384	59	988459	10.2720	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.479	73	1400307	10.3089	PPBV	98
37) TETRAHYDROFURAN	7.856	72	217401	11.6677	PPBV	88
38) HEXANE	7.379	57	792063	10.3380	PPBV	96
39) VINYL ACETATE	6.571	86	89804	11.5897	PPBV #	72
40) 1,1-DICHLOROETHANE	6.424	63	1011520	10.2146	PPBV	100
41) METHYL ETHYL KETONE	6.798	72	234321	12.6410	PPBV #	82
42) cis-1,2-DICHLOROETHYLENE	7.201	96	591193	10.0508	PPBV	97
43) DIISOPROPYL ETHER	7.391	59	248972	12.3587	PPBV #	90
44) ETHYL ACETATE	7.422	61	180822	12.7660	PPBV #	1
45) METHYL ACRYLATE	7.403	55	986217	12.9972	PPBV	98
46) CHLOROFORM	7.477	83	1220240	11.4358	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	895040	10.3219	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1225789	11.0139	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60033.D
Acq On : 25 Nov 2025 11:25 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:02 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1342223	11.1036	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	797994	10.7627	PPBV		100
52)	BENZENE	8.853	78	1601839	11.2515	PPBV		98
53)	CYCLOHEXANE	9.104	84	629951	11.0758	PPBV		95
54)	2,3-DIMETHYLPENTANE	9.349	71	312507	10.8734	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	821453	11.3270	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	641366	9.7037	PPBV		99
57)	DIBROMOMETHANE	9.630	174	849923	10.4847	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	1186374	11.4856	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1416671	11.2658	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2501782	11.1046	PPBV		99
61)	1,4-DIOXANE	9.899	88	368467	11.3464	PPBV	#	90
62)	HEPTANE	10.181	43	775222	9.4635	PPBV		94
63)	METHYL METHACRYLATE	10.107	69	529399	11.4098	PPBV		91
64)	METHYL ISOBUTYL KETONE	10.792	58	501825	11.9479	PPBV		93
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1047382	10.3434	PPBV		94
66)	TOLUENE	11.716	92	1168236	10.9781	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	951184	10.9658	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	934601	9.7774	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	659789	11.4186	PPBV		99
71)	2-HEXANONE	12.010	58	721895	12.2814	PPBV		94
72)	ETHYL METHACRYLATE	12.022	69	953016	12.2758	PPBV		94
73)	TETRACHLOROETHYLENE	12.872	164	946365	12.3458	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.144	129	1563247	11.8107	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1286438	12.4923	PPBV		100
76)	OCTANE	12.738	43	1107746	10.3776	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1013751	12.0289	PPBV		98
78)	CHLOROBENZENE	13.582	112	1654863	11.7853	PPBV		99
79)	ETHYLBENZENE	13.980	91	2607846	12.1070	PPBV		100
80)	m,p-XYLENE	14.182	106	1967278	23.1758	PPBV		100
81)	o-XYLENE	14.677	106	988760	12.4396	PPBV		100
82)	STYRENE	14.567	104	1531747	12.3474	PPBV		99
83)	NONANE	14.928	43	1165388	10.7933	PPBV		96
84)	BROMOFORM	14.249	173	1676819	12.8432	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1777725	12.8612	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1196610	10.7668	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2850418	11.7118	PPBV		100
89)	BROMOBENZENE	15.375	77	1397563	11.0374	PPBV		100
90)	2-CHLOROTOLUENE	15.766	126	756653	11.2253	PPBV		99
91)	n-PROPYLBENZENE	15.809	120	793269	12.1576	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2875426	12.9163	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2392930	11.5618	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1218116	11.9455	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	529372	12.5978	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2531334	13.1060	PPBV		98
97)	m-DICHLOROBENZENE	16.574	146	1883918	12.7599	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2394779	13.4580	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	1918277	12.0838	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	662033	12.4378	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2576957	12.6165	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	778178	12.8978	PPBV		98
103)	o-DICHLOROBENZENE	16.971	146	1775724	11.9896	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	741534	12.5492	PPBV		96
105)	HEXACHLOROETHANE	17.607	117	1201763	11.7991	PPBV		98
106)	HEXACHLOROBUTADIENE	18.966	225	1775448	12.8967	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1786357	13.0164	PPBV		100
108)	NAPHTHALENE	18.660	128	4042015	13.5134	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	3089815	10.6472	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60033.D
Acq On : 25 Nov 2025 11:25 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:02 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

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

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

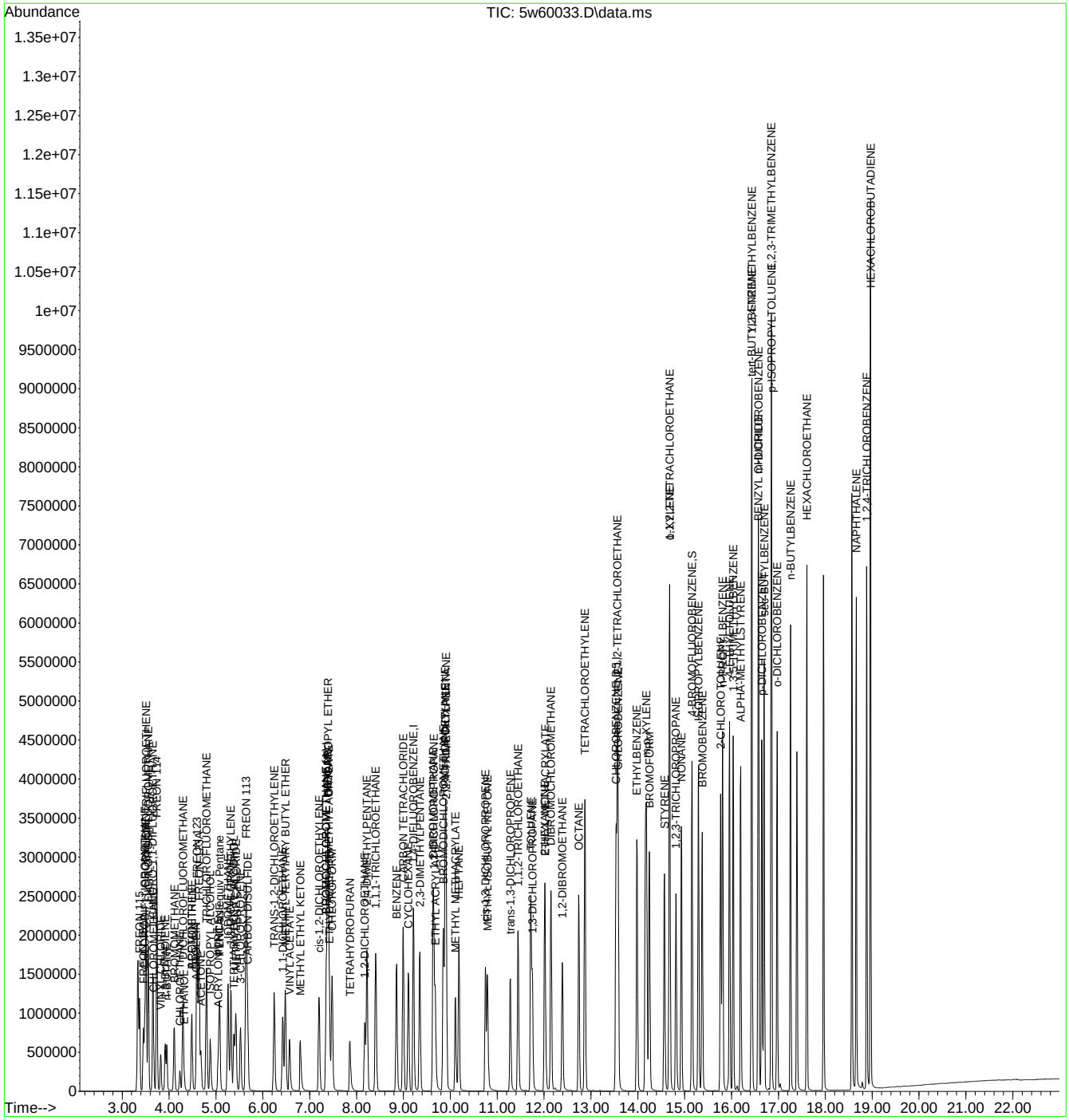
7.7.13

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V5W2302\
Data File : 5w60033.D
Acq On : 25 Nov 2025 11:25 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2302,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 00:23:02 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	114117	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	582166	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	538138	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	114117	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	427692	9.77	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	571	0.04	PPBV		82
3) FREON 152A	1.602	65	357	0.05	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	127	0.04	PPBV	#	79
5) CHLOROTRIFLUOROETHENE	1.631	116	598	0.04	PPBV		77
6) DICHLORODIFLUOROMETHANE	1.647	85	1176m	0.03	PPBV		
7) PROPYLENE	1.628	41	518	0.06	PPBV	#	80
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1089	0.04	PPBV		93
9) FREON 114	1.714	85	1188	0.04	PPBV		81
10) CHLOROMETHANE	1.689	52	220	0.06	PPBV		60
11) VINYL CHLORIDE	1.747	62	679	0.05	PPBV	#	92
12) 1,3-BUTADIENE	1.785	54	573	0.05	PPBV	#	62
14) BROMOMETHANE	1.859	94	558	0.05	PPBV	#	95
15) CHLOROETHANE	1.907	64	393	0.05	PPBV		91
16) DICHLOROFLUOROMETHANE	1.930	67	1164	0.04	PPBV	#	56
17) ACETONITRILE	2.001	41	762	0.06	PPBV	#	43
19) FREON 123	2.049	83	1179	0.04	PPBV		97
20) FREON 123A	2.062	117	787	0.05	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.129	101	1269	0.04	PPBV	#	98
24) PENTANE	2.239	42	777	0.06	PPBV	#	82
25) IODOMETHANE	2.300	142	1191	0.04	PPBV		93
26) 1,1-DICHLOROETHYLENE	2.332	96	522	0.04	PPBV	#	59
27) CARBON DISULFIDE	2.460	76	1446	0.04	PPBV	#	4
29) BROMOETHENE	2.001	106	466	0.04	PPBV	#	94
32) 3-CHLOROPROPENE	2.409	76	263	0.04	PPBV	#	64
33) FREON 113	2.460	151	709	0.04	PPBV		83
34) TRANS-1,2-DICHLOROETHENE	2.685	96	555	0.04	PPBV	#	58
35) TERTIARY BUTYL ALCOHOL	2.348	59	1458	0.05	PPBV	#	71
36) METHYL TERTIARY BUTYL ...	2.795	73	1635	0.04	PPBV	#	50
37) TETRAHYDROFURAN	3.499	72	205	0.03	PPBV	#	48
38) HEXANE	3.242	57	1163	0.05	PPBV		87
39) VINYL ACETATE	2.833	86	161	0.05	PPBV	#	13
40) 1,1-DICHLOROETHANE	2.759	63	1028	0.04	PPBV		99
41) METHYL ETHYL KETONE	2.930	72	323	0.05	PPBV	#	25
42) CIS-1,2-DICHLOROETHENE	3.116	96	586	0.04	PPBV		81
43) DIISOPROPYL ETHER	3.245	59	314	0.05	PPBV		88
44) ETHYL ACETATE	3.251	61	203	0.04	PPBV	#	97
45) METHYL ACRYLATE	3.242	55	1383	0.05	PPBV	#	86
46) CHLOROFORM	3.261	83	1053	0.04	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	3.740	57	1228	0.04	PPBV	#	92
48) 1,1,1-TRICHLOROETHANE	3.820	97	1132	0.04	PPBV		92
49) CARBON TETRACHLORIDE	4.235	117	1061	0.04	PPBV		88
50) 1,2-DICHLOROETHANE	3.656	62	712	0.03	PPBV	#	93
51) BENZENE	4.132	78	1781	0.05	PPBV		94
53) CYCLOHEXANE	4.332	84	700	0.04	PPBV	#	56
54) 2,3-DIMETHYLPENTANE	4.586	71	330	0.04	PPBV	#	6
55) TRICHLOROETHENE	5.013	95	741	0.04	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	703	0.04	PPBV	#	77
57) DIBROMOMETHANE	4.740	174	802	0.05	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

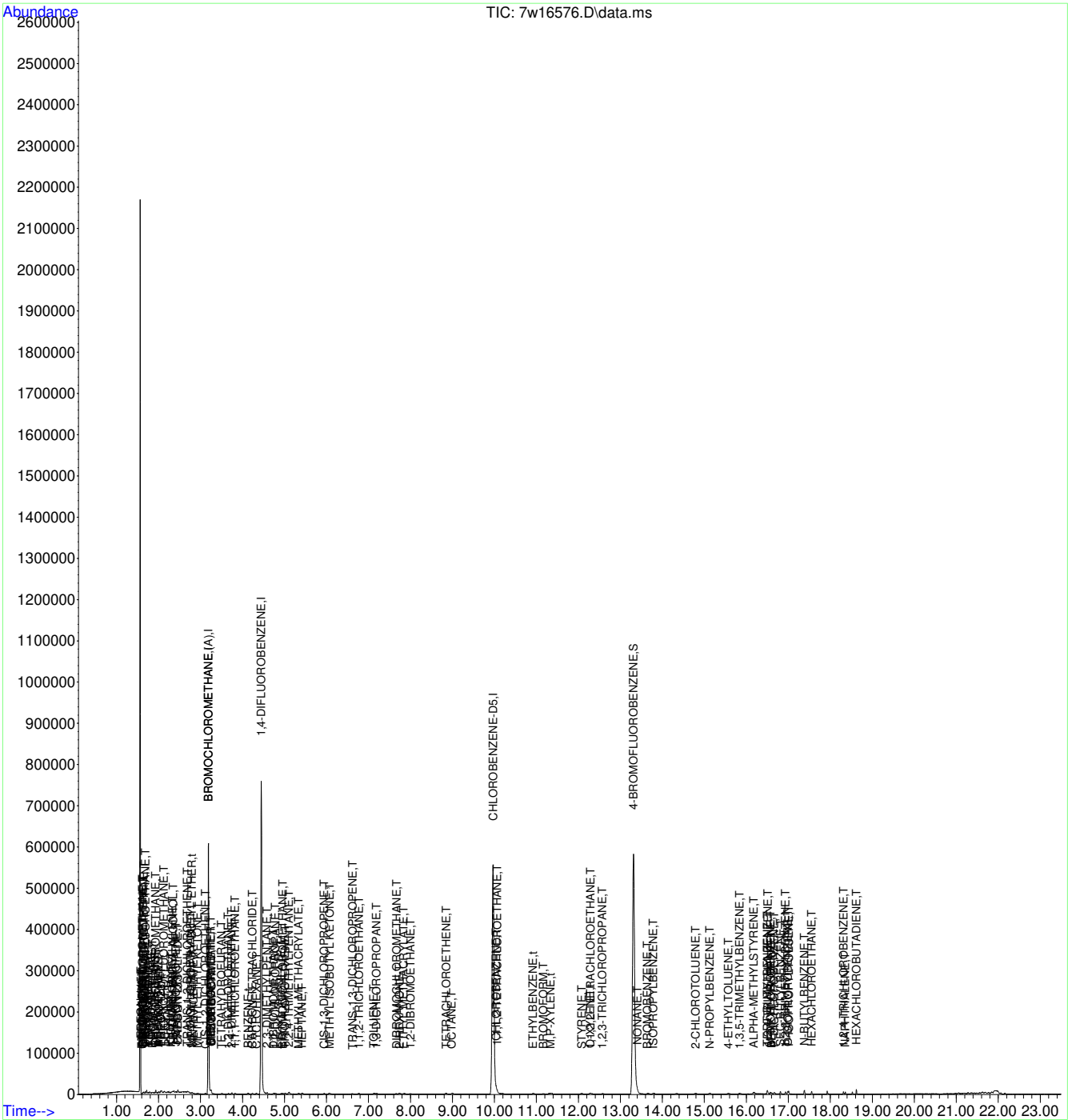
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	4.920	55	1547	0.04	PPBV	#	87
59) BROMODICHLOROMETHANE	4.959	83	1145	0.04	PPBV		97
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	3683	0.05	PPBV	#	90
62) HEPTANE	5.418	43	1262	0.05	PPBV		89
63) METHYL METHACRYLATE	5.332	69	659	0.04	PPBV	#	71
64) METHYL ISOBUTYL KETONE	6.074	58	776	0.05	PPBV	#	93
65) CIS-1,3-DICHLOROPROPENE	5.939	75	908	0.03	PPBV		89
66) TOLUENE	7.129	91	1961	0.04	PPBV		94
67) 1,3-DICHLOROPROPANE	7.187	76	917	0.04	PPBV	#	90
68) TRANS-1,3-DICHLOROPROPENE	6.624	75	685	0.03	PPBV	#	73
69) 1,1,2-TRICHLOROETHANE	6.775	83	432	0.03	PPBV		88
70) 2-HEXANONE	7.733	58	1334	0.06	PPBV	#	1
71) ETHYL METHACRYLATE	7.836	69	991	0.04	PPBV	#	33
72) TETRACHLOROETHENE	8.852	164	707	0.04	PPBV	#	62
73) DIBROMOCHLOROMETHANE	7.669	129	938	0.03	PPBV	#	21
74) 1,2-DIBROMOETHANE	8.004	107	998	0.04	PPBV	#	98
75) OCTANE	8.981	43	1632	0.04	PPBV	#	30
77) 1,1,1,2-TETRACHLOROETHANE	10.065	131	804	0.04	PPBV		100
78) CHLOROBENZENE	10.039	112	1584	0.04	PPBV	#	75
79) ETHYLBENZENE	10.917	91	2610	0.04	PPBV		87
80) M,P-XYLENE	11.335	91	4291	0.08	PPBV		90
81) O-XYLENE	12.280	91	2009	0.04	PPBV	#	64
82) STYRENE	12.077	104	1372	0.04	PPBV		94
83) NONANE	13.408	43	1708	0.04	PPBV	#	21
84) BROMOFORM	11.164	173	746	0.03	PPBV	#	92
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	1386	0.04	PPBV	#	91
86) 1,2,3-TRICHLOROPROPANE	12.566	75	1086	0.04	PPBV	#	99
88) ISOPROPYLBENZENE	13.778	120	720	0.04	PPBV		100
89) BROMOBENZENE	13.643	77	1476	0.04	PPBV	#	72
90) 2-CHLOROTOLUENE	14.788	126	652	0.04	PPBV	#	66
91) N-PROPYLBENZENE	15.125	120	688	0.03	PPBV	#	64
92) 4-ETHYLTOLUENE	15.569	105	2796	0.04	PPBV	#	93
93) 1,3,5-TRIMETHYLBENZENE	15.842	105	2434	0.04	PPBV		88
94) ALPHA-METHYLSTYRENE	16.180	118	1042	0.03	PPBV		91
95) TERT-BUTYLBENZENE	16.495	134	685	0.05	PPBV		91
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	2331	0.04	PPBV		91
97) BENZYL CHLORIDE	16.601	91	1503	0.03	PPBV		89
98) M-DICHLOROBENZENE	16.572	146	1758	0.04	PPBV		98
99) P-DICHLOROBENZENE	16.666	146	1701	0.04	PPBV		93
100) O-DICHLOROBENZENE	16.987	146	1470	0.04	PPBV		92
101) SEC-BUTYLBENZENE	16.810	134	660	0.04	PPBV		63
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	2483	0.04	PPBV		94
103) P-ISOPROPYLTOLUENE	17.013	134	767	0.04	PPBV		86
104) N-BUTYLBENZENE	17.376	134	703	0.04	PPBV		66
105) HEXACHLOROETHANE	17.556	117	895	0.04	PPBV		97
106) HEXACHLOROBUTADIENE	18.620	225	1203	0.04	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.312	180	1219	0.03	PPBV		94
108) NAPHTHALENE	18.357	128	2545	0.03	PPBV		94

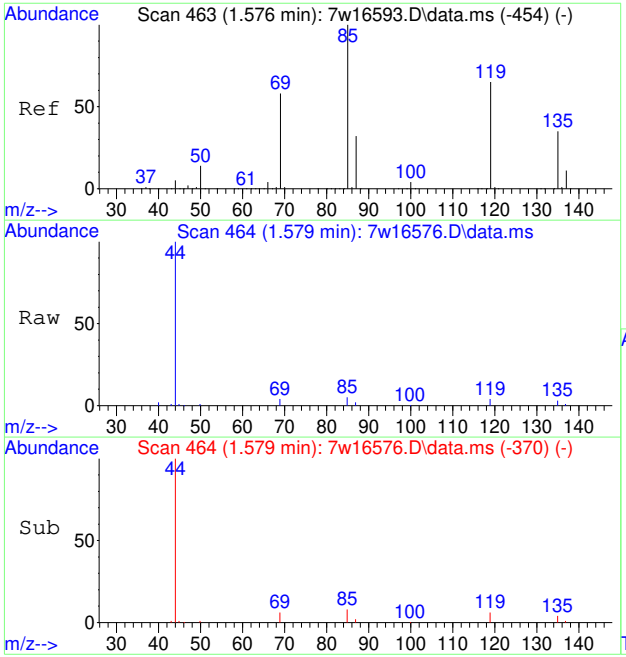
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

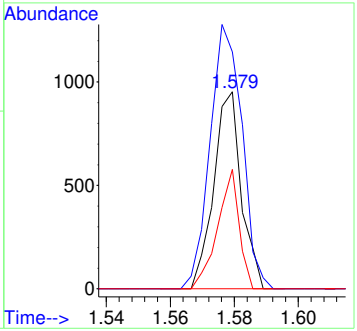


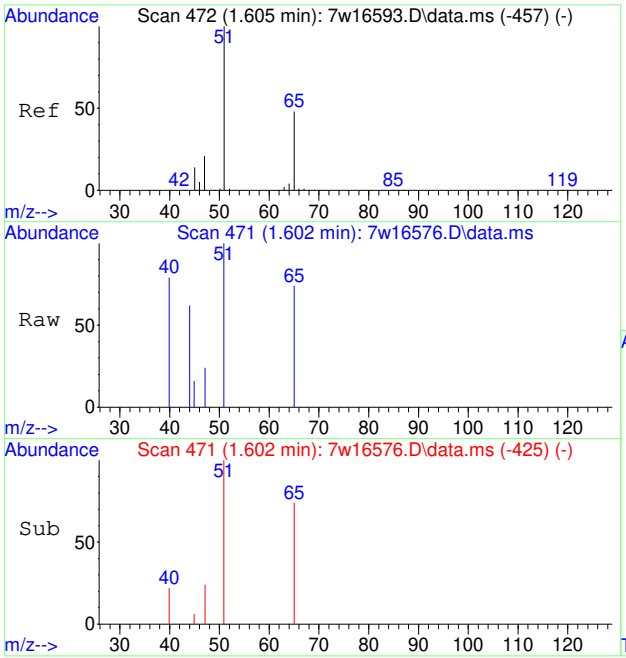


#2
FREON 115
Concen: 0.04 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:119 Resp: 571

Ion	Ratio	Lower	Upper
119	100		
85	155.3	90.9	168.7
135	47.3	38.2	71.0

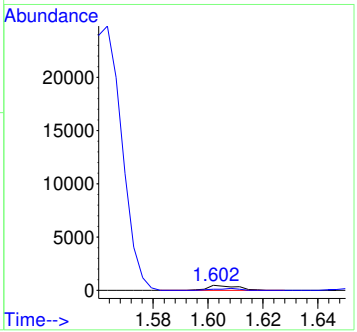


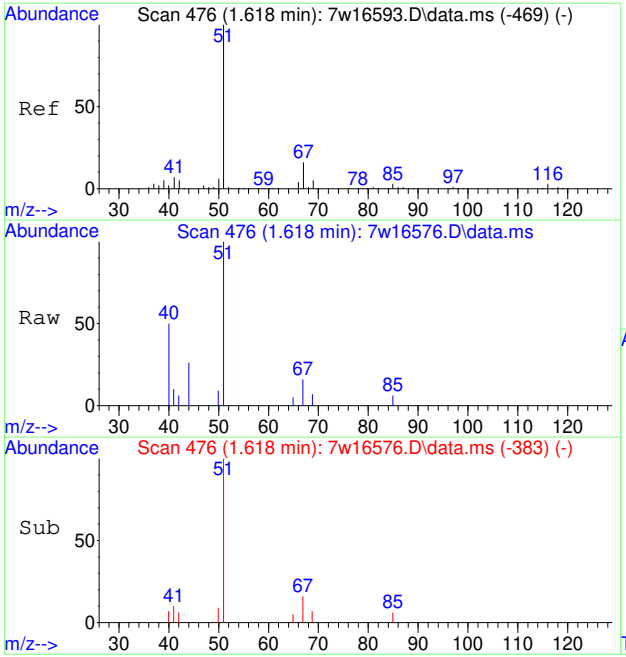


#3
FREON 152A
Concen: 0.05 PPBV
RT: 1.602 min Scan# 471
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 357

Ion	Ratio	Lower	Upper
65	100		
45	30.5	20.6	38.4

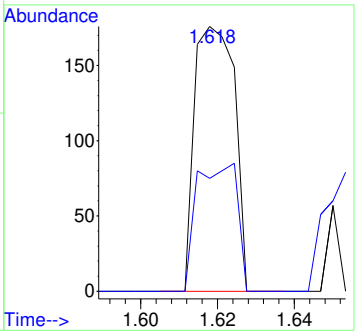


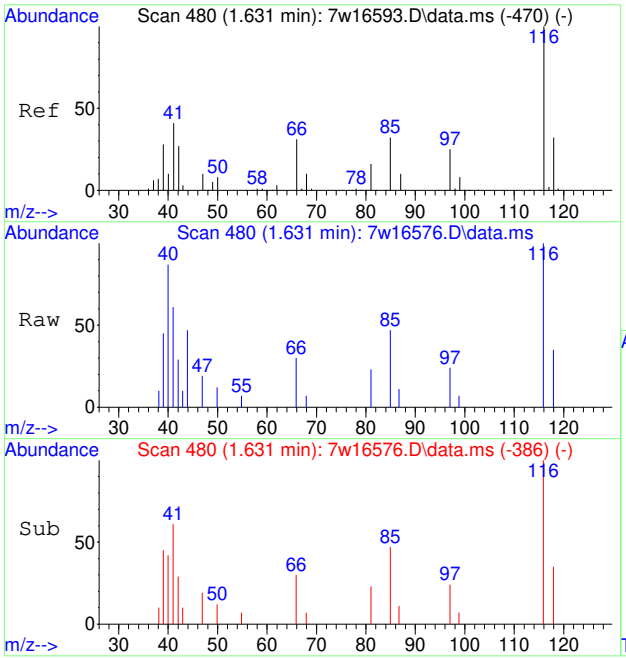


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 127

Ion	Ratio	Lower	Upper
67	100		
69	48.8	25.4	47.2#

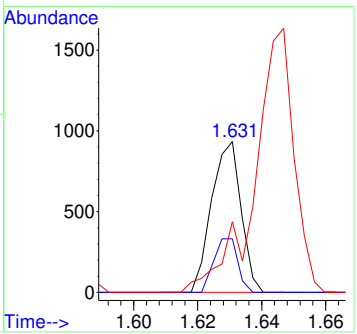


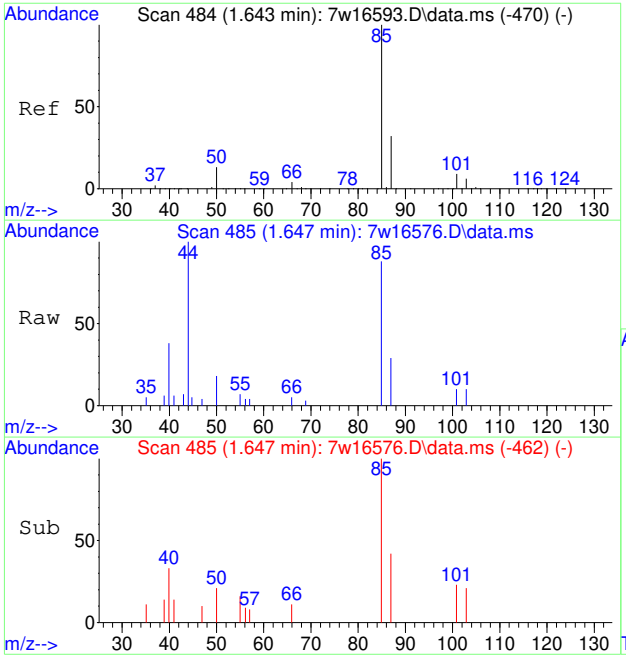


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:116 Resp: 598

Ion	Ratio	Lower	Upper
116	100		
118	28.9	22.7	42.1
85	232.1	194.7	361.7

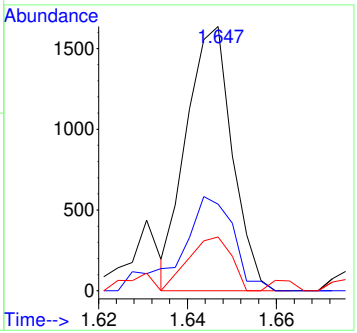


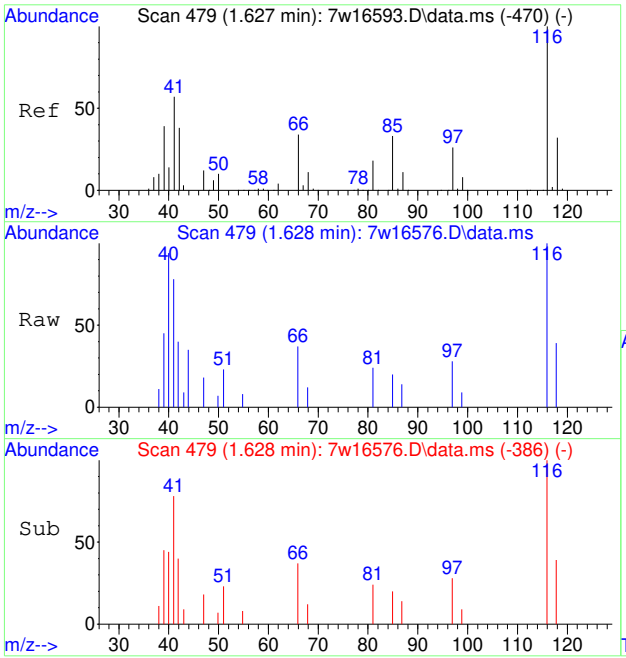


#6
DICHLORODIFLUOROMETHANE
Concen: 0.03 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1176

Ion	Ratio	Lower	Upper
85	100		
87	40.9	23.1	42.9
50	27.6	12.1	22.5#

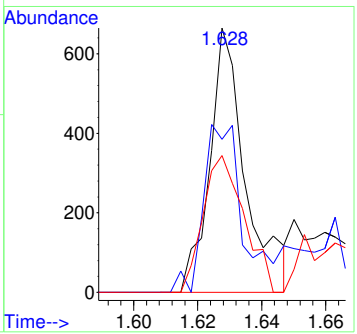


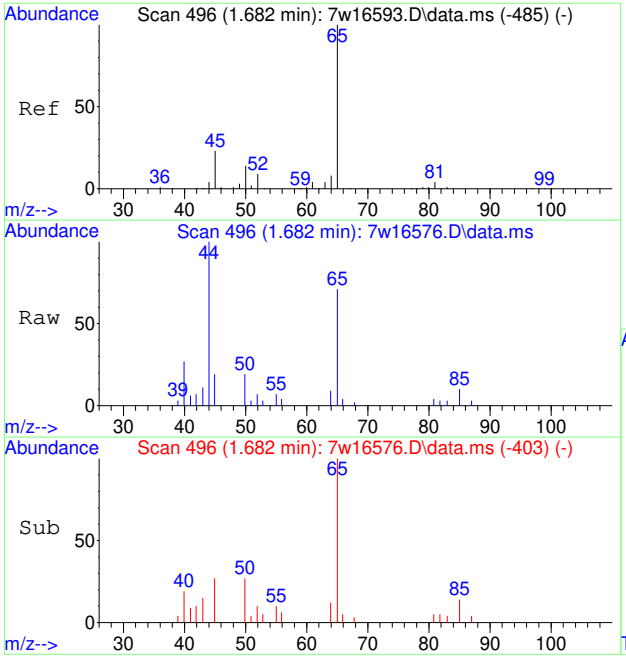


#7
PROPYLENE
Concen: 0.06 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 518

Ion	Ratio	Lower	Upper
41	100		
39	98.5	51.0	94.8#
42	59.3	46.6	86.6

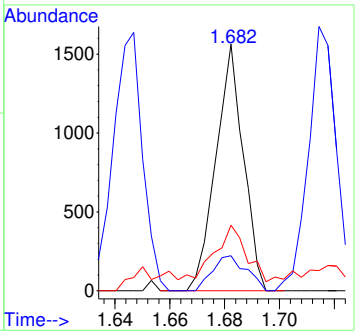


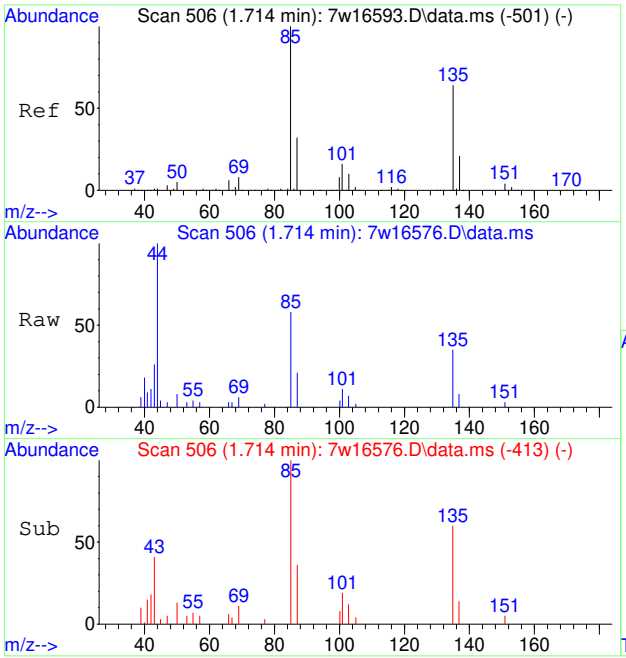


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.04 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 1089

Ion	Ratio	Lower	Upper
65	100		
85	17.5	9.7	17.9
45	27.3	17.0	31.6

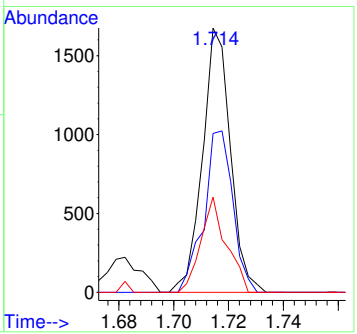


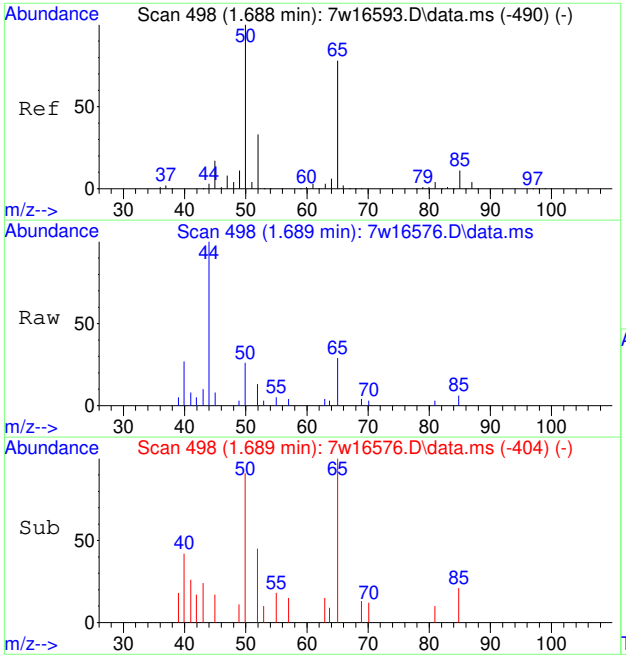


#9
FREON 114
Concen: 0.04 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1188

Ion	Ratio	Lower	Upper
85	100		
135	63.0	61.3	113.9
87	32.9	23.2	43.0

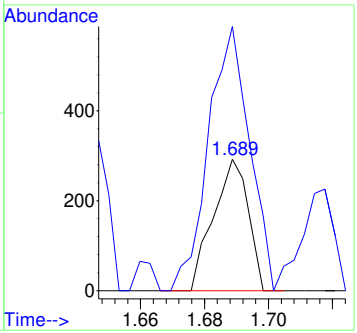


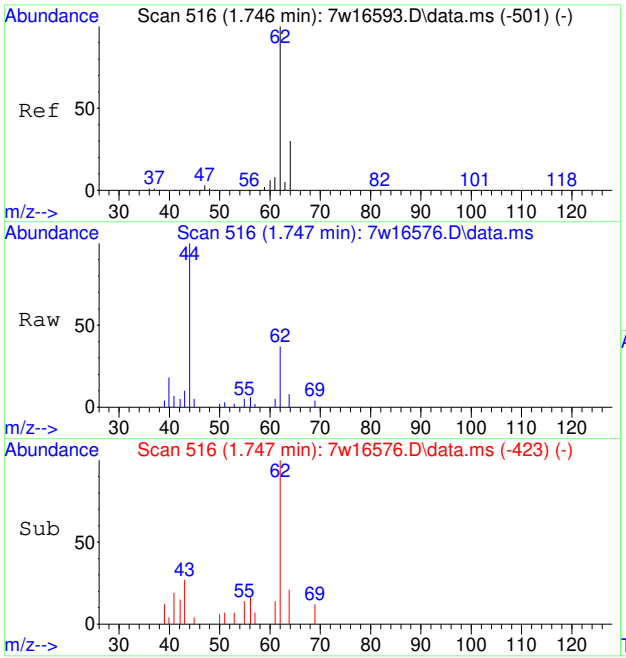


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 52 Resp: 220

Ion	Ratio	Lower	Upper
52	100		
50	242.3	227.6	422.6

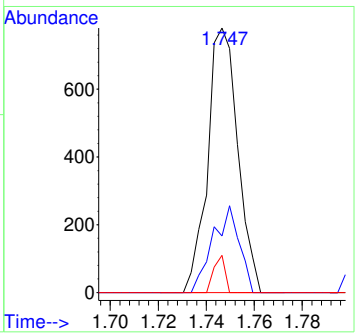


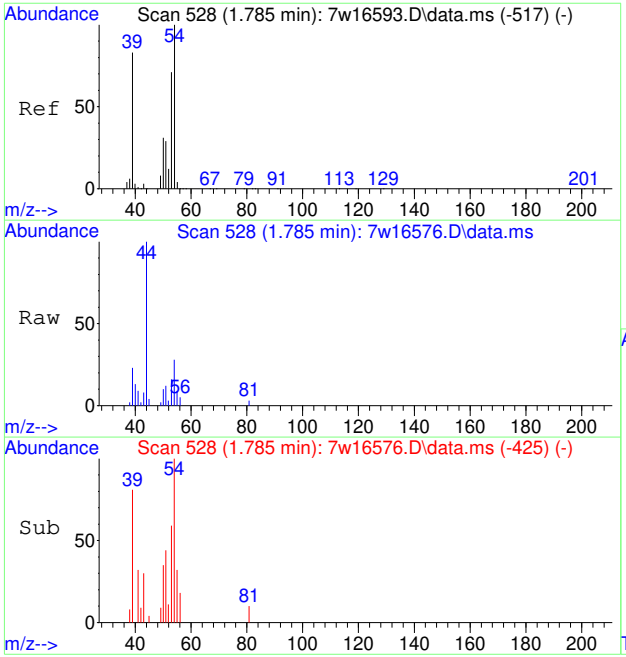


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 679

Ion	Ratio	Lower	Upper
62	100		
64	28.9	21.6	40.2
61	0.0	5.7	10.7#

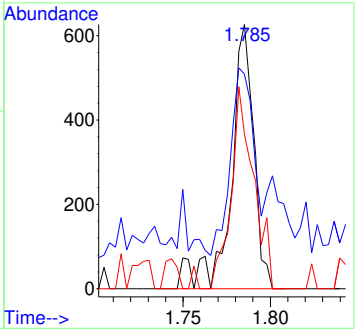


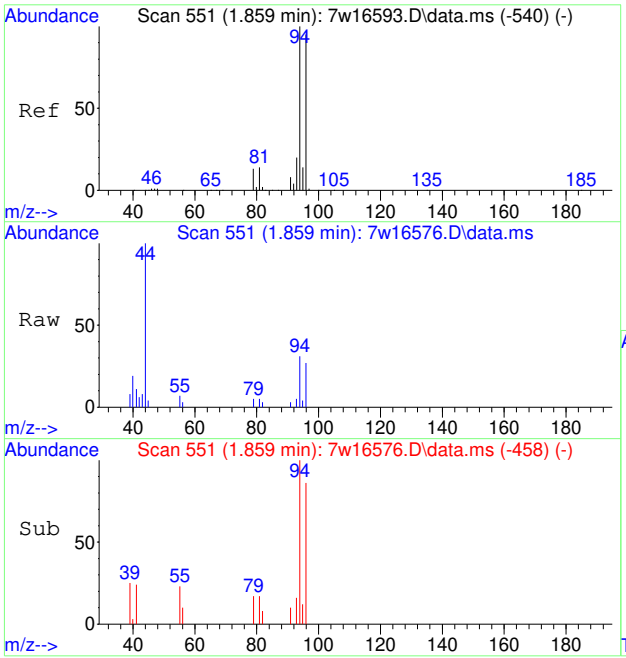


#12
1,3-BUTADIENE
Concen: 0.05 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 54 Resp: 573

Ion	Ratio	Lower	Upper
54	100		
39	88.8	125.6	185.6#
53	76.8	40.7	100.7

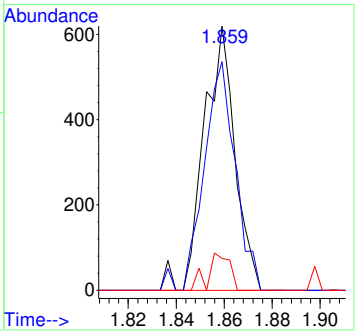


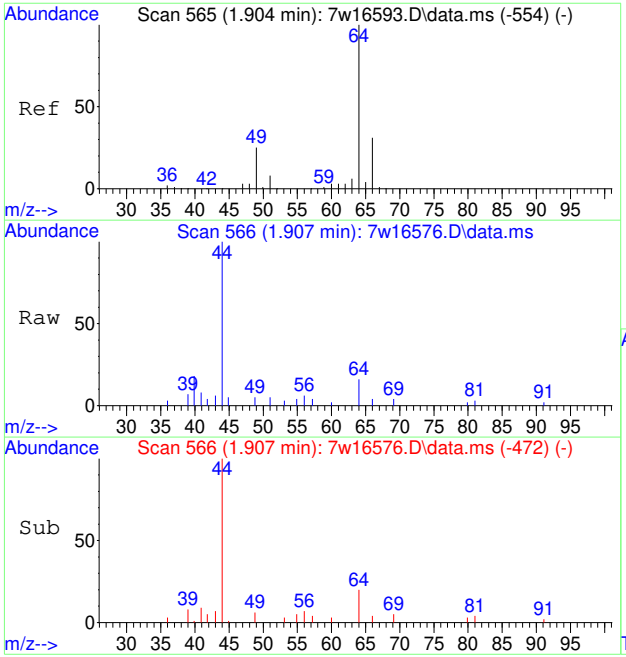


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 94 Resp: 558

Ion	Ratio	Lower	Upper
94	100		
96	87.3	63.6	118.0
95	9.9	10.0	18.6#

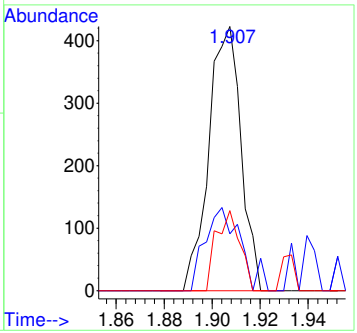


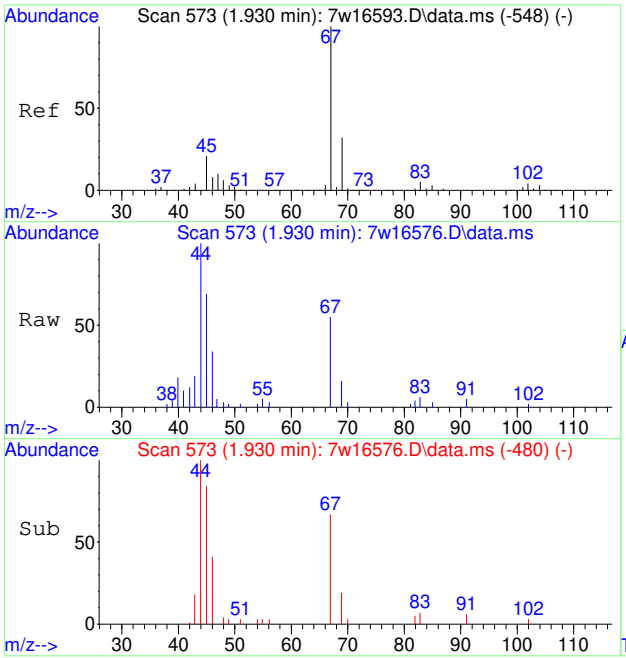


#15
CHLOROETHANE
Concen: 0.05 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 64 Resp: 393

Ion	Ratio	Lower	Upper
64	100		
66	34.9	23.0	42.6
49	22.4	21.5	39.9

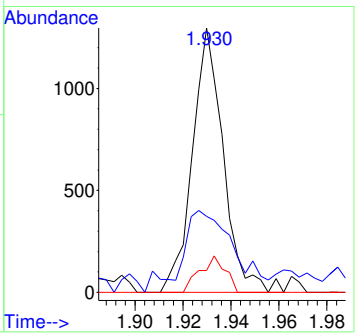


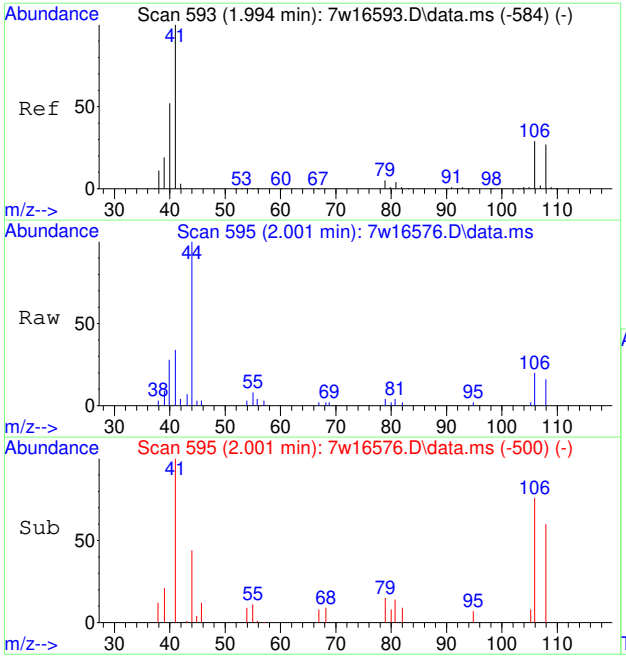


#16
DICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 1164

Ion	Ratio	Lower	Upper
67	100		
69	67.2	23.2	43.0#
47	11.3	9.6	17.8

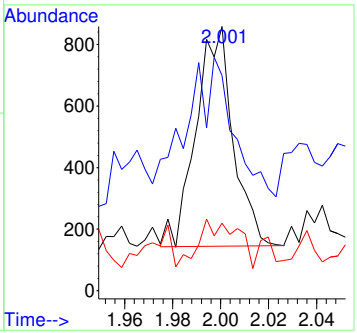


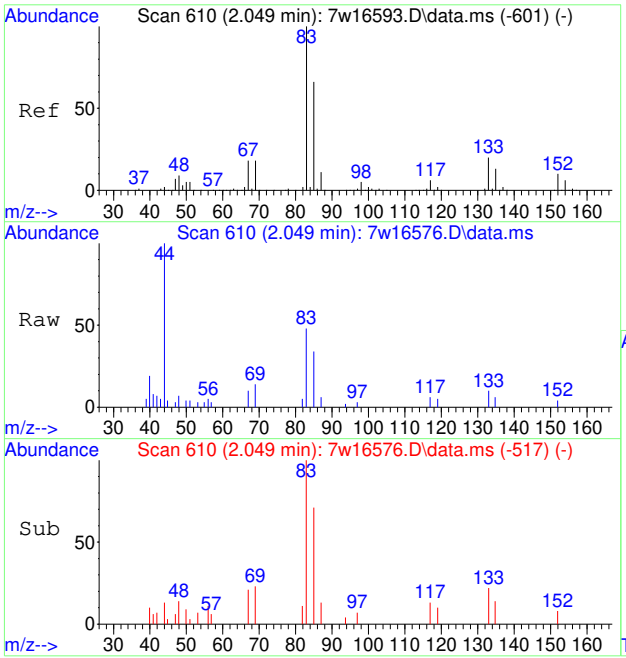


#17
ACETONITRILE
Concen: 0.06 PPBV
RT: 2.001 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 762

Ion	Ratio	Lower	Upper
41	100		
40	110.5	38.4	71.4#
39	23.4	14.5	26.9

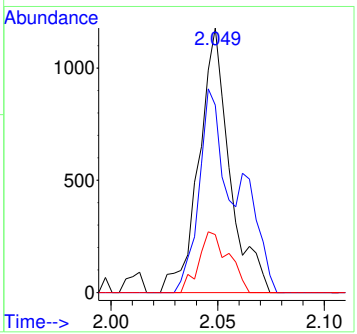


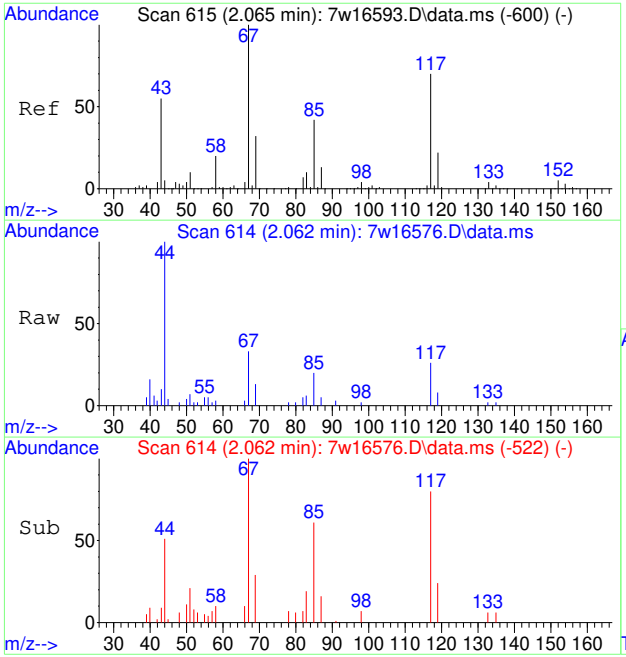


#19
FREON 123
Concen: 0.04 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1179

Ion	Ratio	Lower	Upper
83	100		
85	94.0	65.7	121.9
133	22.4	19.9	36.9

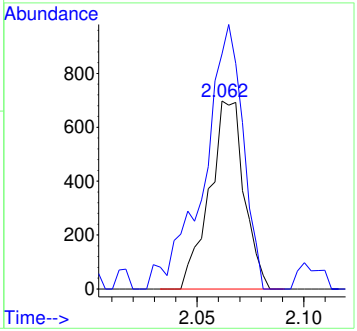


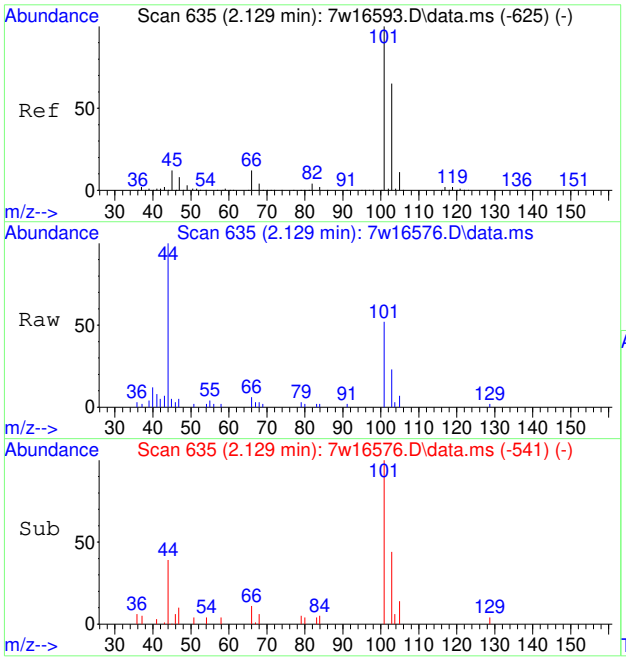


#20
FREON 123A
Concen: 0.05 PPBV
RT: 2.062 min Scan# 614
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 787

Ion	Ratio	Lower	Upper
117	100		
67	158.8	78.8	146.4#

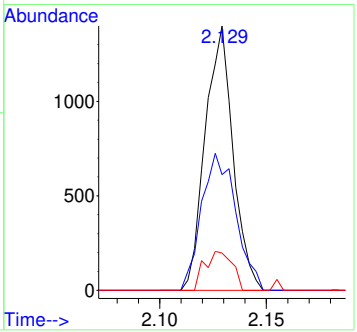


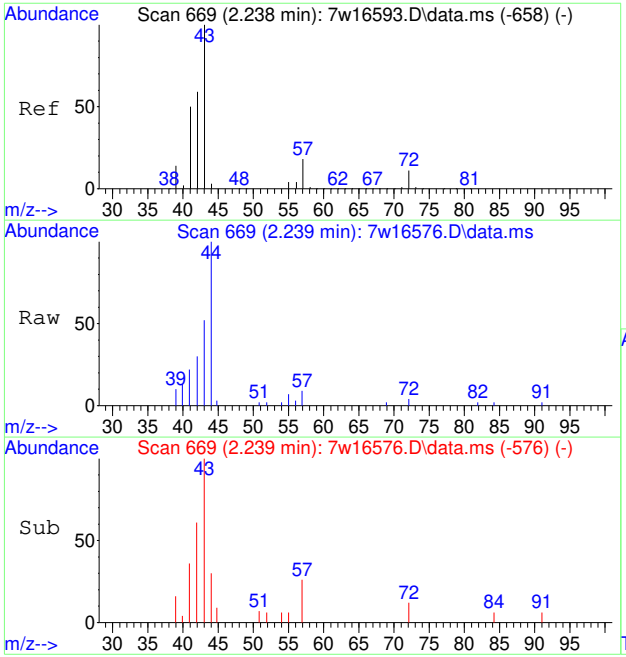


#21
TRICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:101 Resp: 1269

Ion	Ratio	Lower	Upper
101	100		
103	64.0	44.3	82.3
105	14.7	7.3	13.7#

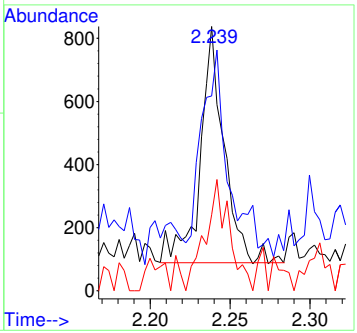


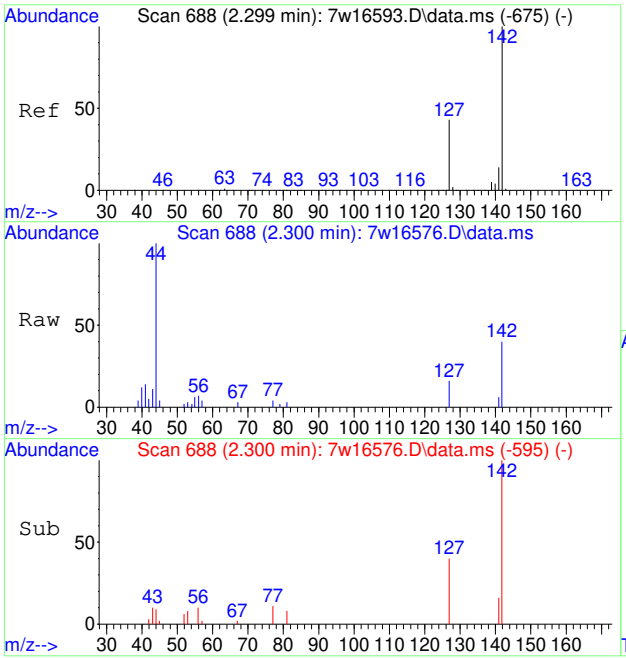


#24
PENTANE
Concen: 0.06 PPBV
RT: 2.239 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 42 Resp: 777

Ion	Ratio	Lower	Upper
42	100		
41	109.0	69.2	128.6
57	51.7	18.6	34.6#

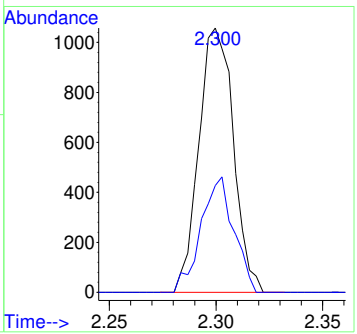


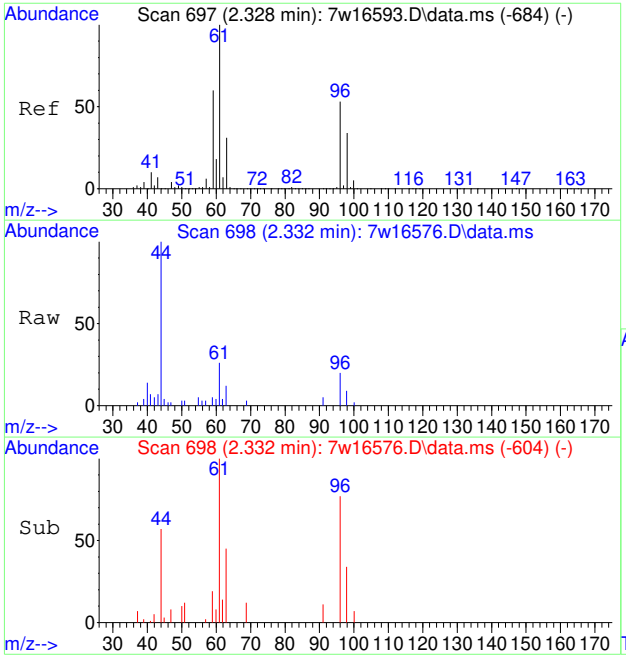


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:142 Resp: 1191

Ion	Ratio	Lower	Upper
142	100		
127	41.4	32.1	59.7

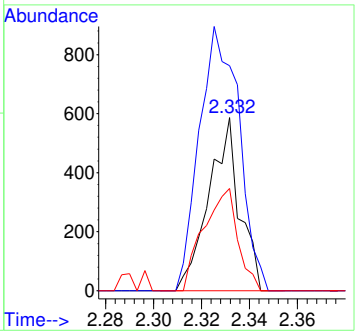


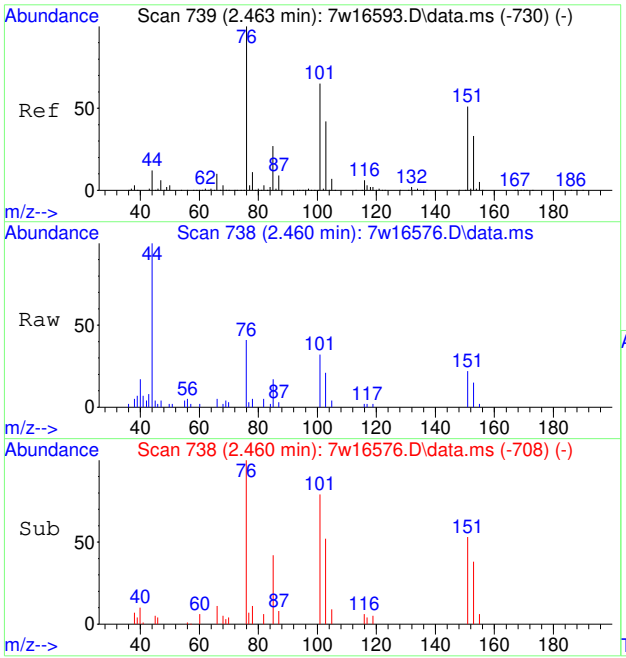


#26
1,1-DICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 2.332 min Scan# 698
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 522

Ion	Ratio	Lower	Upper
96	100		
61	196.4	98.3	182.5#
63	65.7	33.2	61.7#

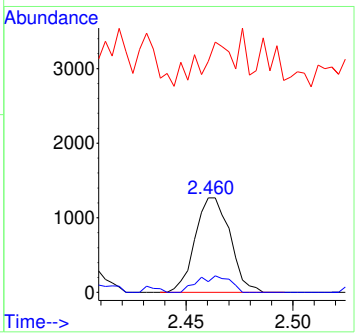


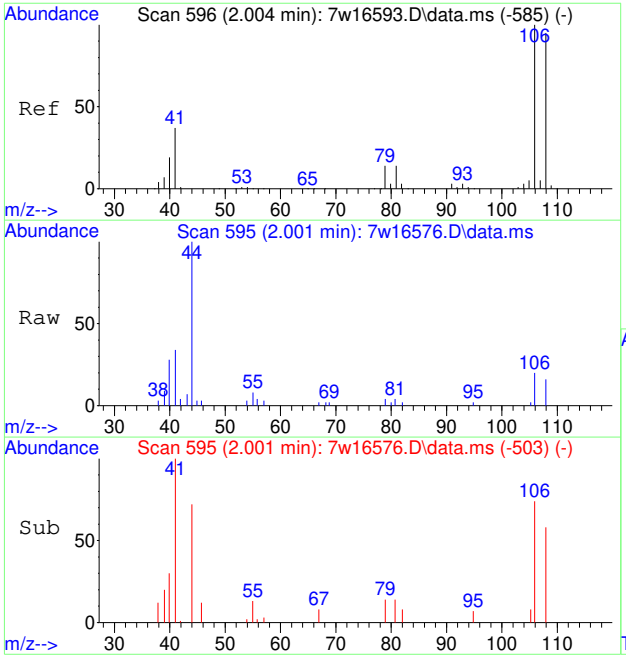


#27
CARBON DISULFIDE
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 1446

Ion	Ratio	Lower	Upper
76	100		
78	16.3	8.3	15.3#
44	85.3	13.0	24.1#

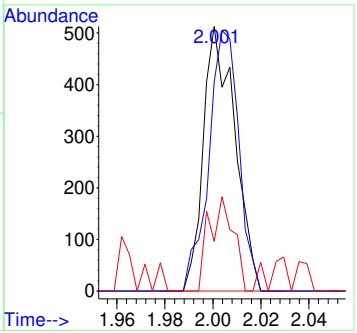


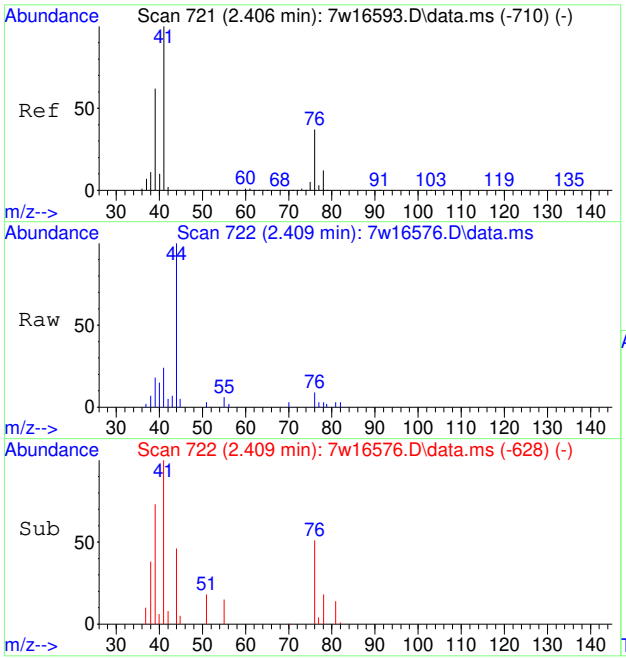


#29
BROMOETHENE
Concen: 0.04 PPBV
RT: 2.001 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:106 Resp: 466

Ion	Ratio	Lower	Upper
106	100		
108	94.2	68.3	126.8
81	29.8	14.7	27.3#

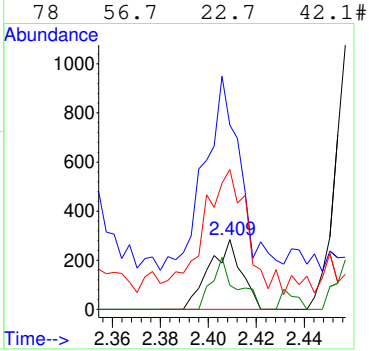


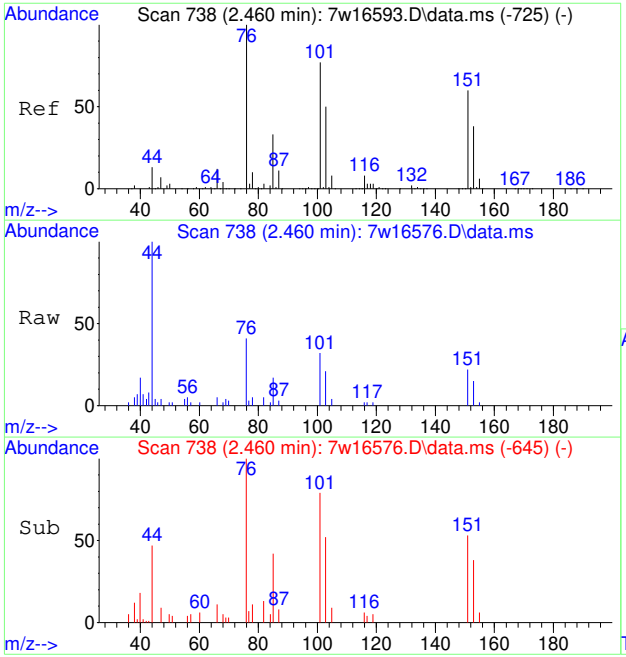


#32
3-CHLOROPROPENE
Concen: 0.04 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 263

Ion	Ratio	Lower	Upper
76	100		
41	309.5	160.9	298.9#
39	248.7	150.7	279.9
78	56.7	22.7	42.1#

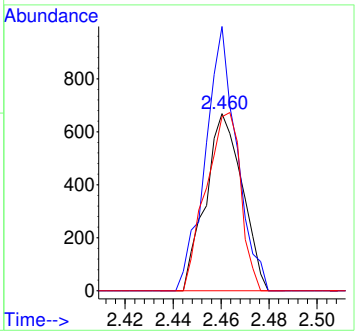


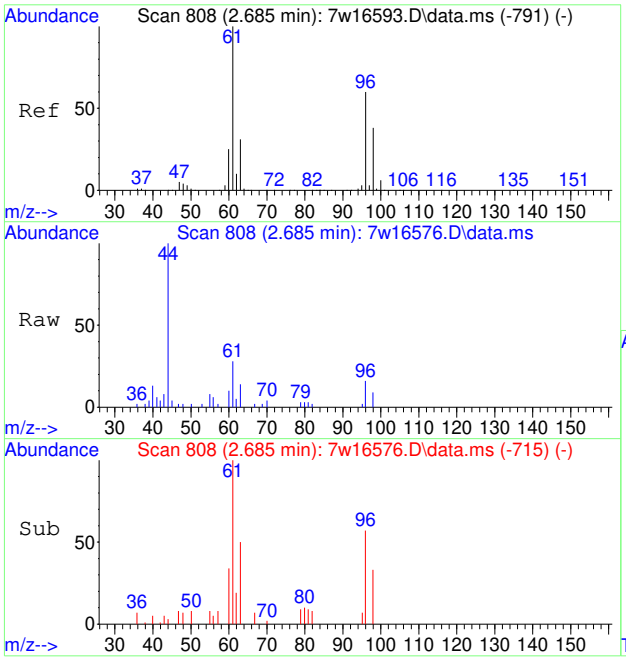


#33
FREON 113
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:151 Resp: 709

Ion	Ratio	Lower	Upper
151	100		
101	127.8	81.1	150.7
103	95.2	51.4	95.4

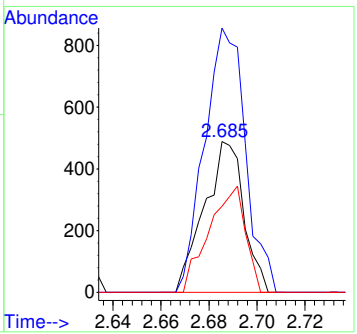


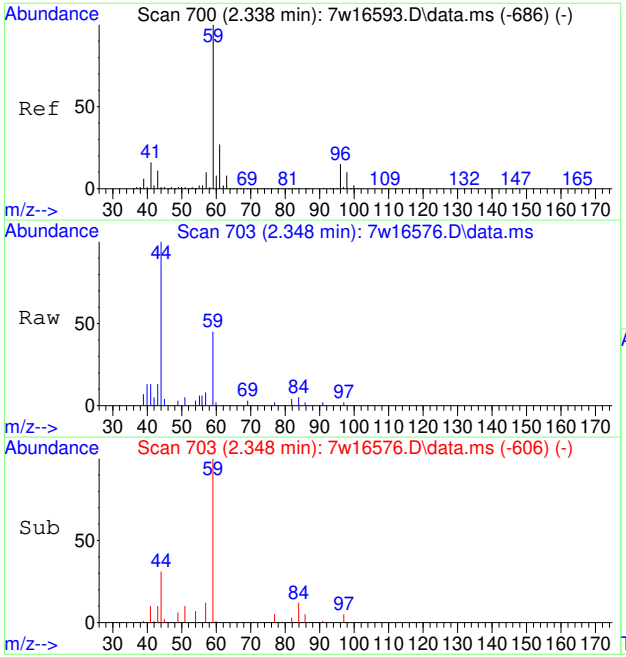


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 555

Ion	Ratio	Lower	Upper
96	100		
61	182.7	78.5	145.9#
98	65.2	46.5	86.3

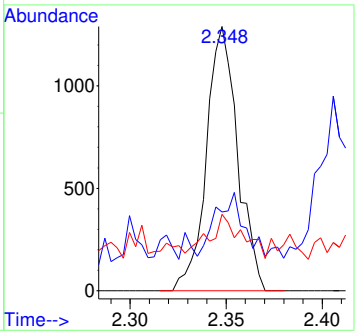


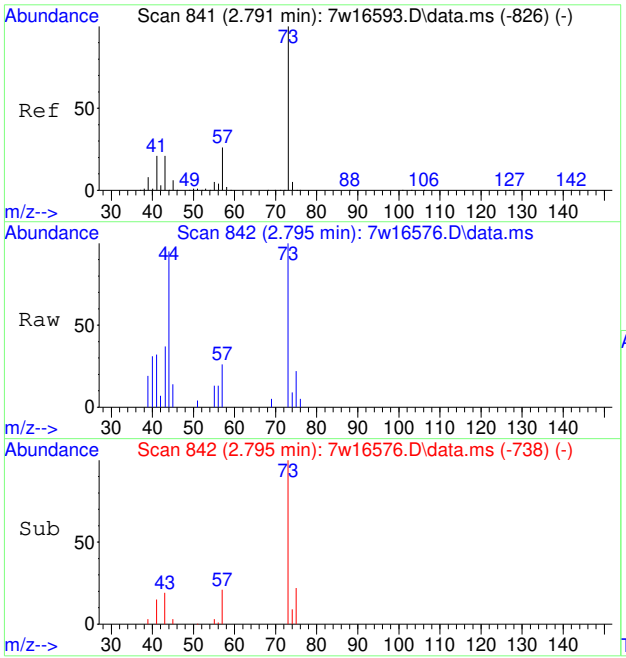


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.05 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 1458

Ion	Ratio	Lower	Upper
59	100		
41	32.6	15.3	28.5#
43	33.5	12.3	22.9#

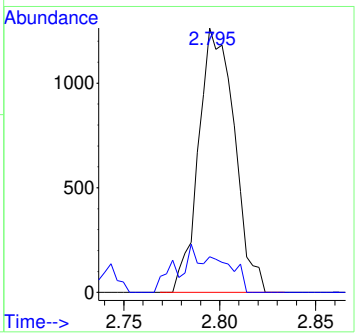


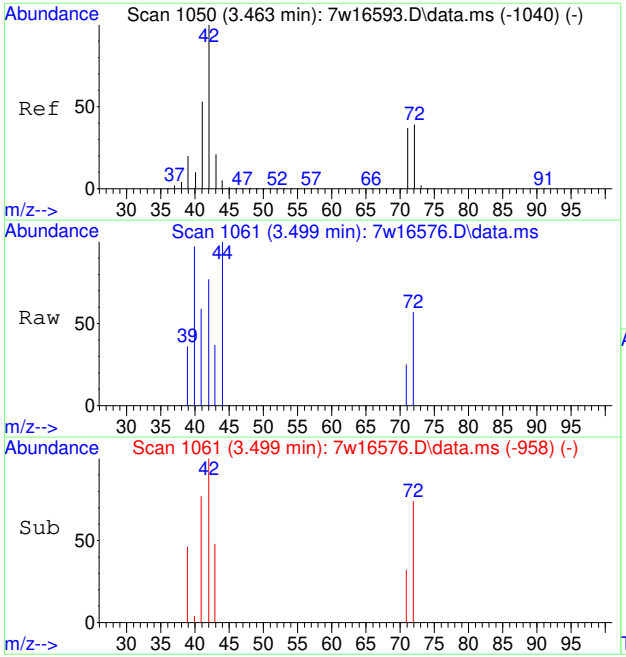


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.04 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 73 Resp: 1635

Ion	Ratio	Lower	Upper
73	100		
45	21.6	3.4	6.4#

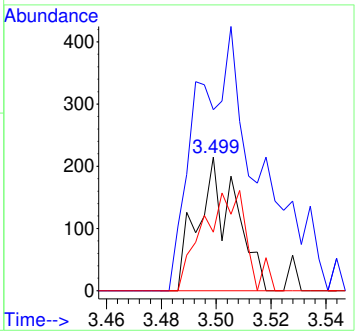


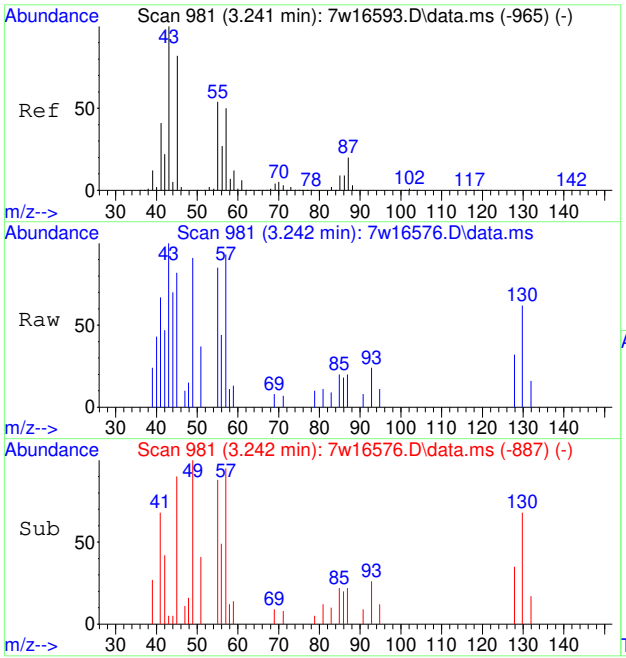


#37
TETRAHYDROFURAN
Concen: 0.03 PPBV
RT: 3.499 min Scan# 1061
Delta R.T. 0.032 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 205

Ion	Ratio	Lower	Upper
72	100		
42	334.1	153.0	284.2#
71	85.9	62.7	116.5

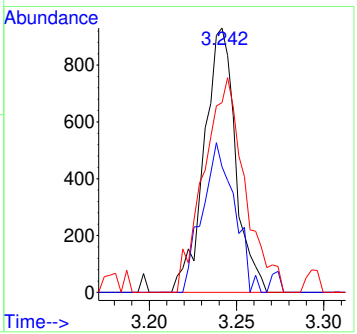


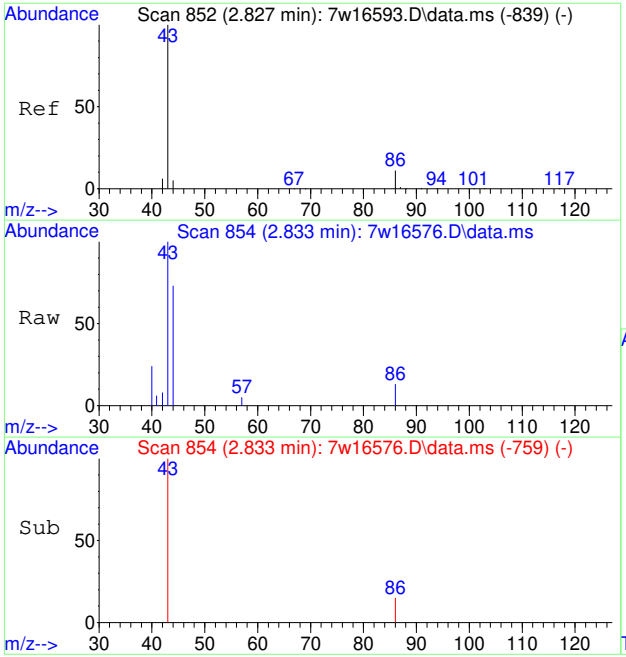


#38
HEXANE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1163

Ion	Ratio	Lower	Upper
57	100		
56	58.0	37.3	69.3
41	105.6	86.7	161.1

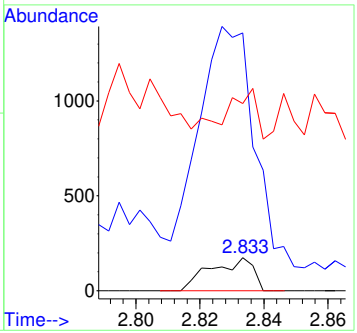


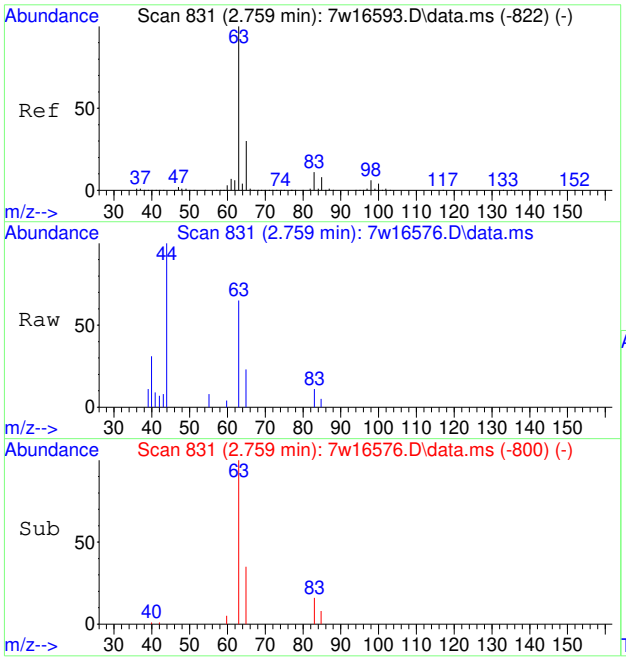


#39
VINYL ACETATE
Concen: 0.05 PPBV
RT: 2.833 min Scan# 854
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 86 Resp: 161

Ion	Ratio	Lower	Upper
86	100		
43	1339.1	667.9	1240.3#
44	80.7	32.7	60.7#

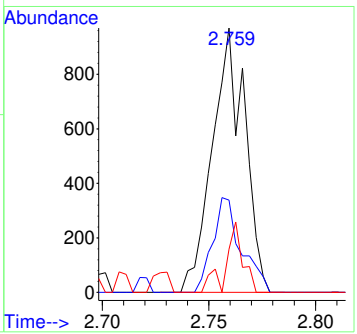


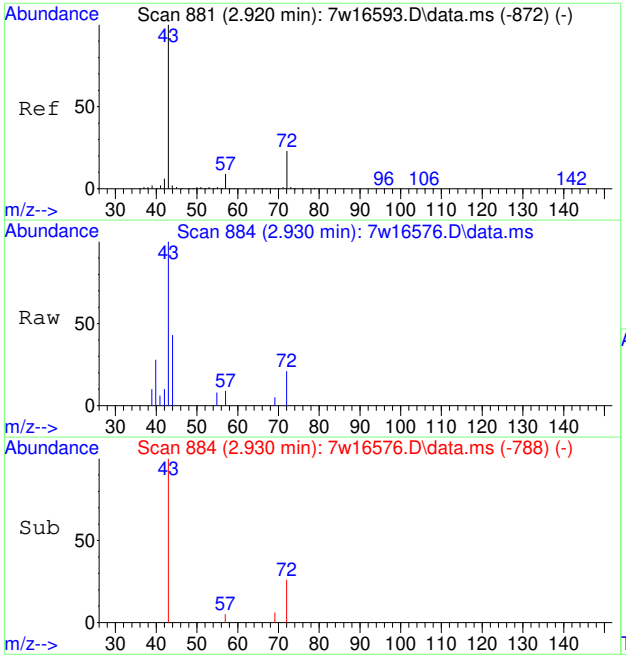


#40
1,1-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 1028

Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.8	40.6
83	14.1	10.6	19.6

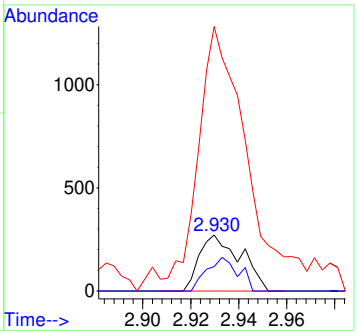


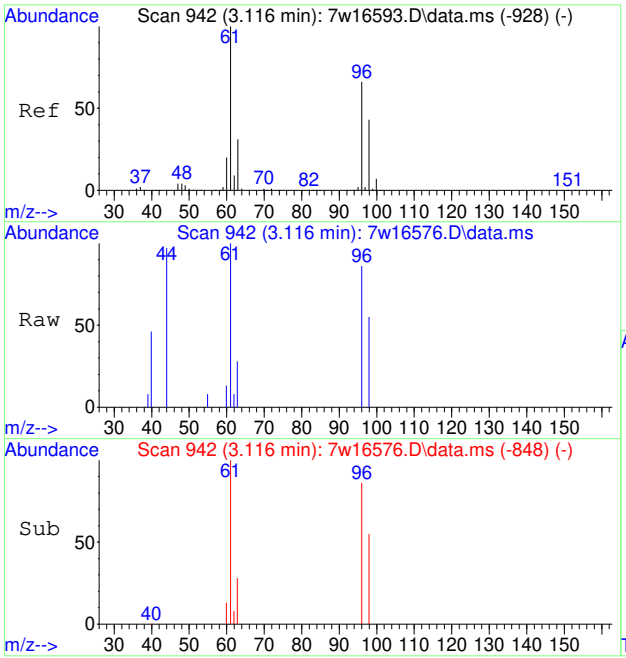


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV
RT: 2.930 min Scan# 884
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 323

Ion	Ratio	Lower	Upper
72	100		
57	45.8	20.3	37.7#
43	590.4	282.8	525.2#

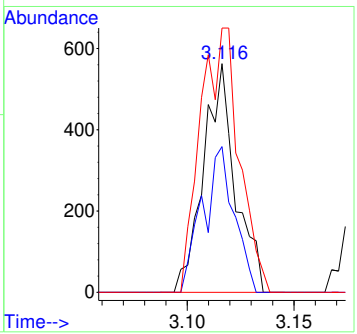


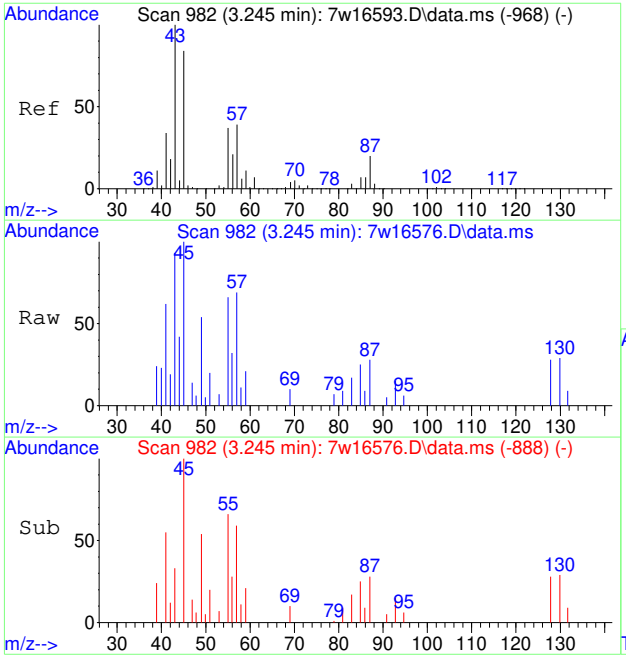


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 586

Ion	Ratio	Lower	Upper
96	100		
98	63.0	46.8	86.8
61	140.8	78.3	145.5

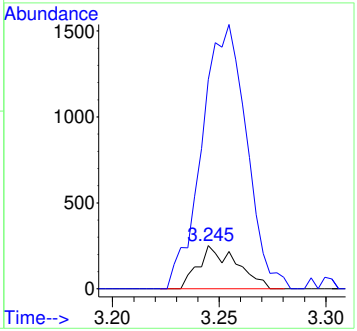


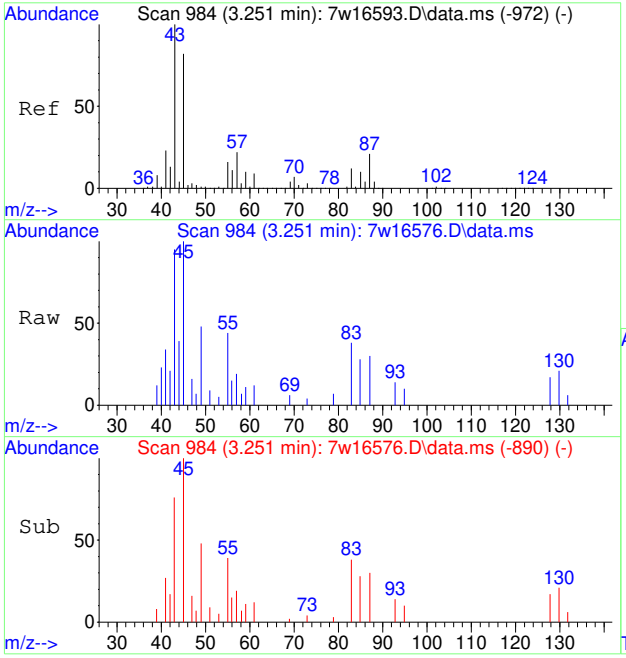


#43
DIISOPROPYL ETHER
Concen: 0.05 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 314

Ion	Ratio	Lower	Upper
59	100		
45	714.3	532.1	988.1

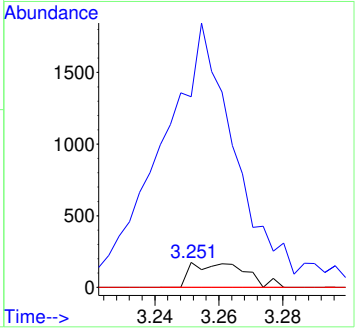


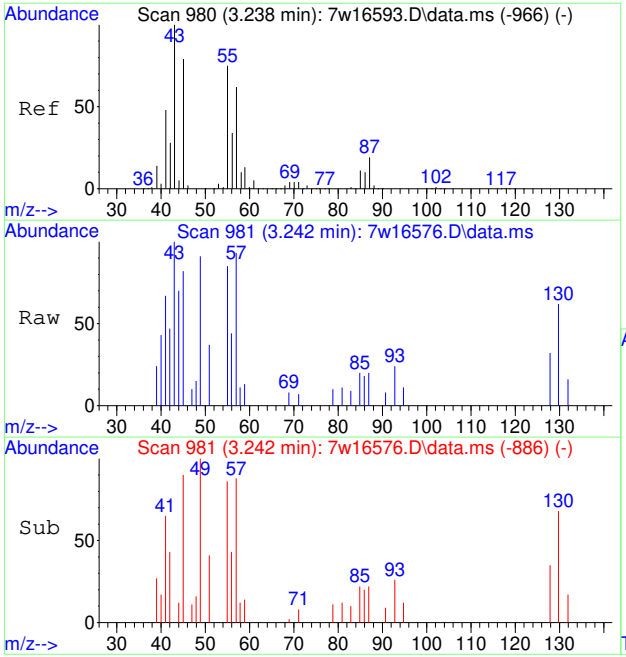


#44
ETHYL ACETATE
Concen: 0.04 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 61 Resp: 203

Ion	Ratio	Lower	Upper
61	100		
43	1613.8	1127.5	2093.9
88	0.0	36.2	67.2#

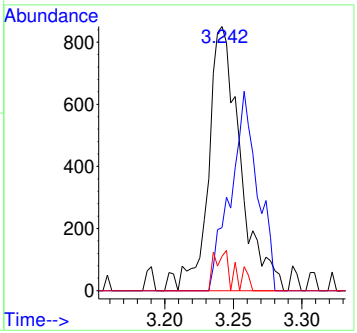


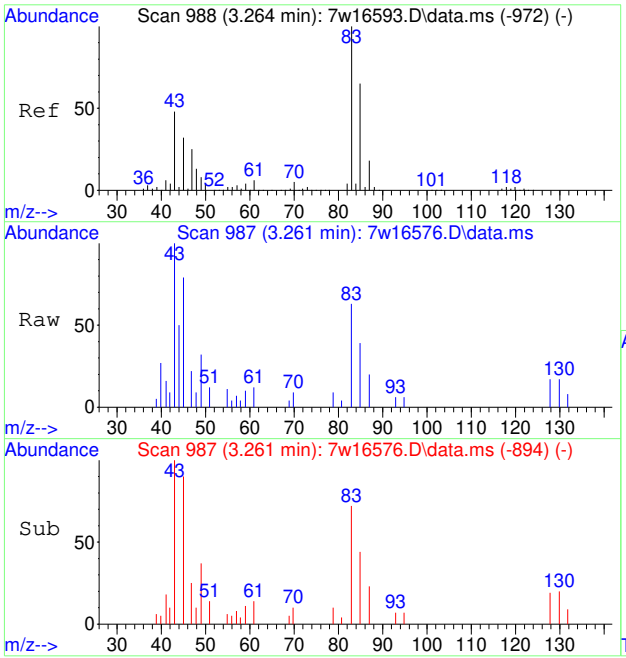


#45
METHYL ACRYLATE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1383

Ion	Ratio	Lower	Upper
55	100		
85	63.6	0.0	0.0#
58	7.4	9.2	17.0#

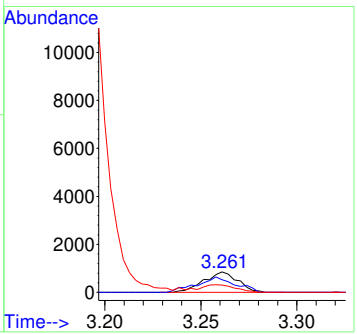


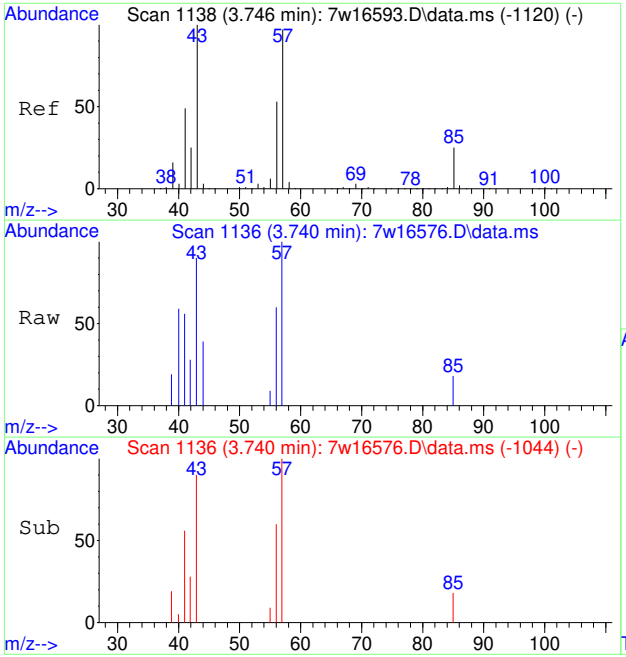


#46
CHLOROFORM
Concen: 0.04 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1053

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	44.6	17.9	33.3#

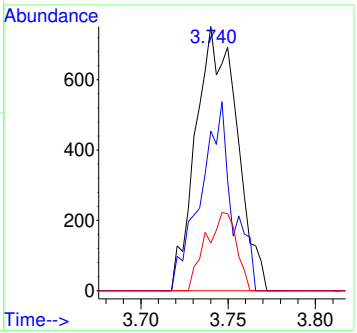


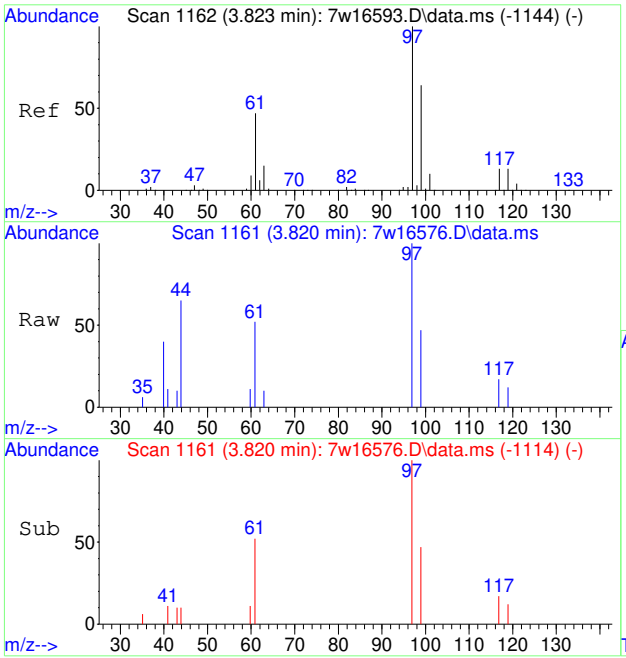


#47
2,4-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1228

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	22.1	24.1	44.7#

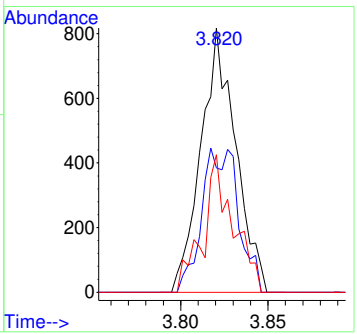


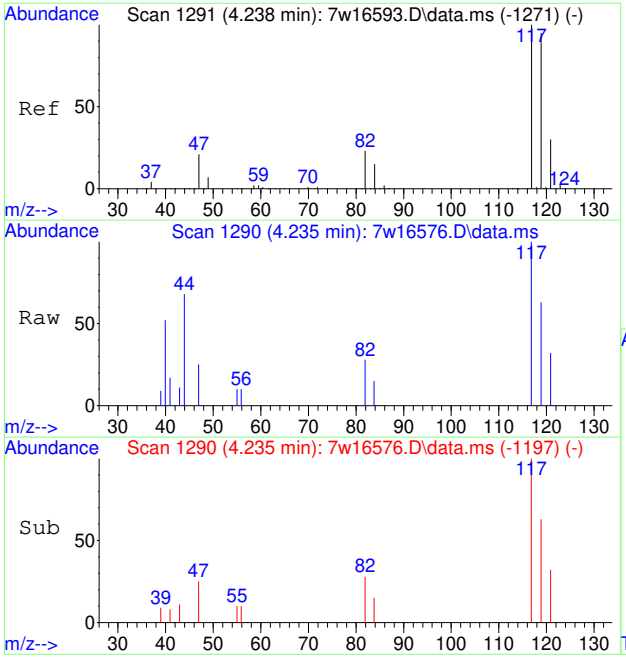


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 97 Resp: 1132

Ion	Ratio	Lower	Upper
97	100		
99	57.4	44.9	83.5
61	44.7	28.6	53.0

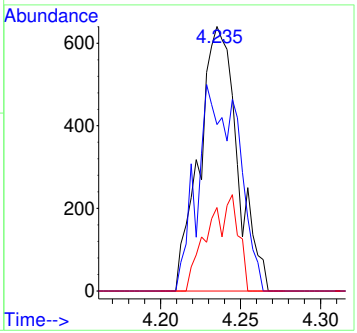


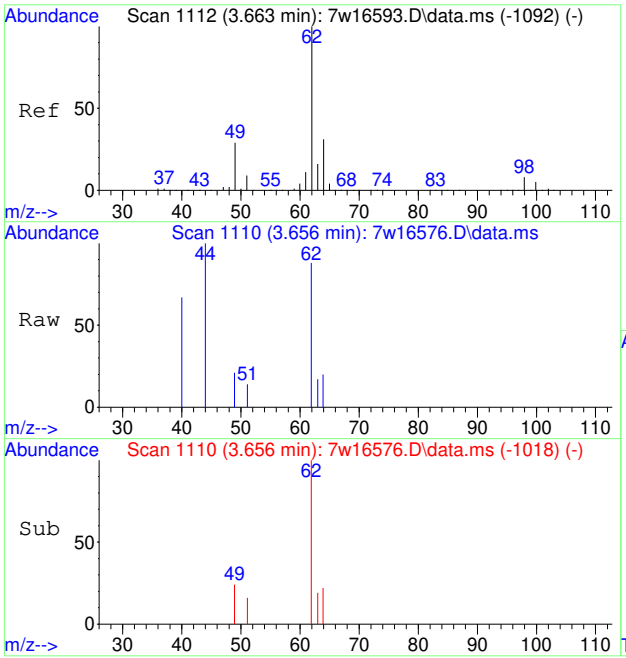


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 1061

Ion	Ratio	Lower	Upper
117	100		
119	83.8	68.8	127.8
121	29.1	22.2	41.2

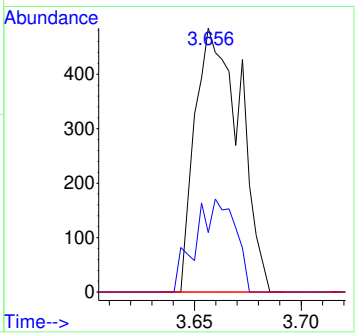


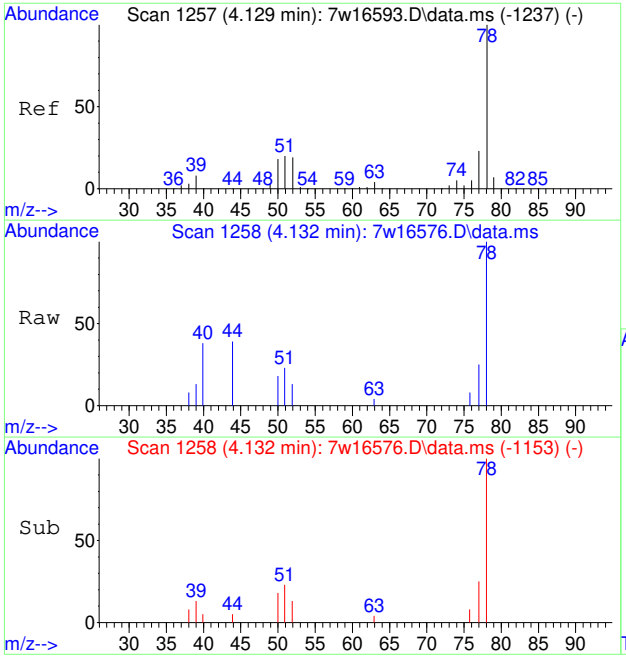


#50
1,2-DICHLOROETHANE
Concen: 0.03 PPBV
RT: 3.656 min Scan# 1110
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 712

Ion	Ratio	Lower	Upper
62	100		
64	31.3	22.5	41.7
98	0.0	6.8	12.6#

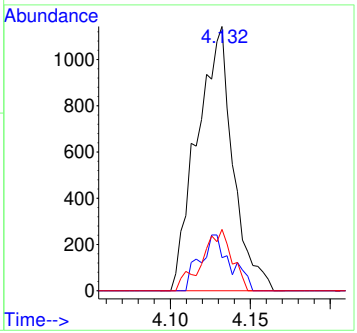


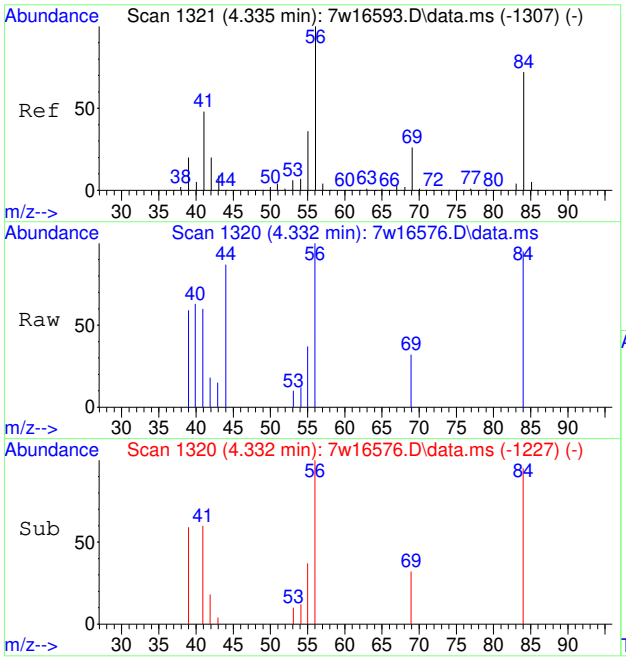


#51
BENZENE
Concen: 0.05 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 78 Resp: 1781

Ion	Ratio	Lower	Upper
78	100		
52	17.9	0.0	44.6
51	19.4	0.0	47.3

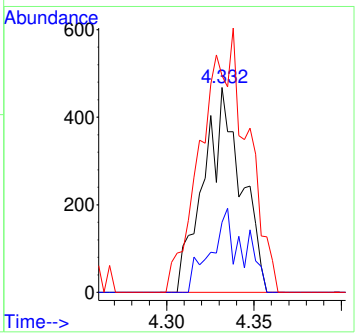


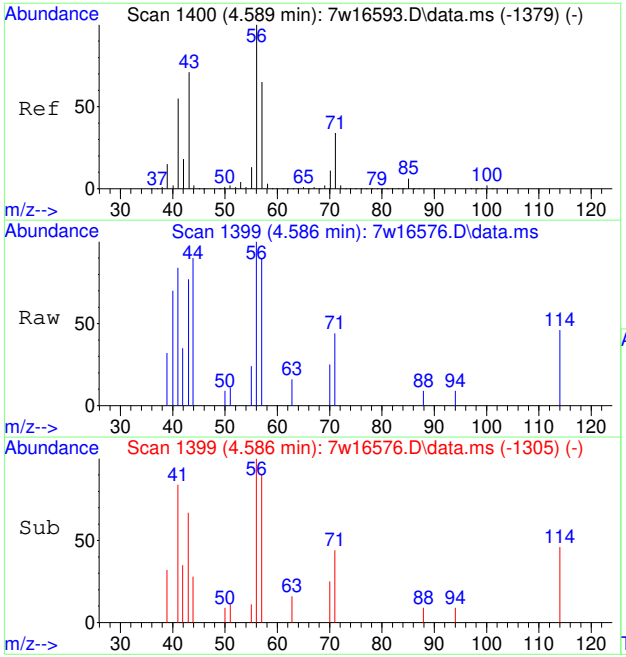


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 84 Resp: 700

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	156.6	70.2	130.4#

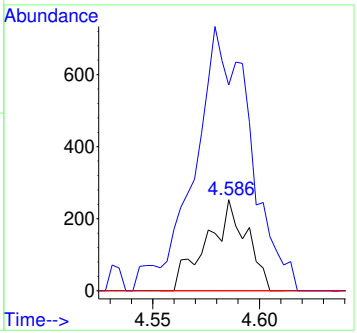


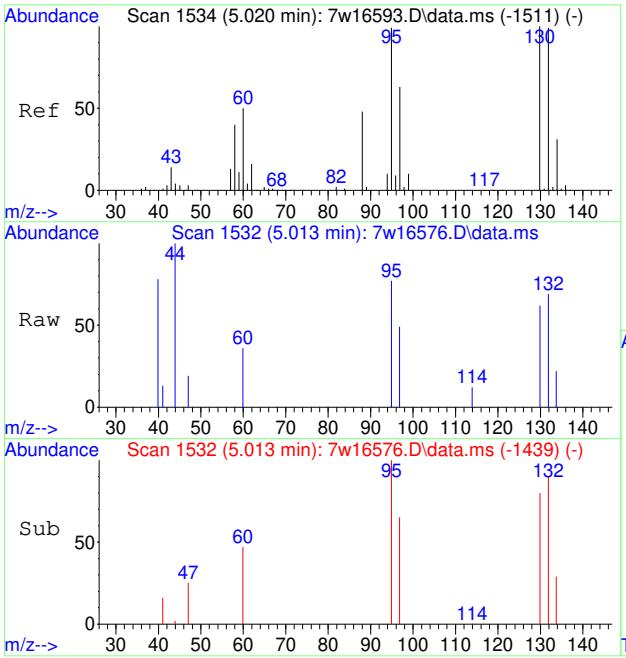


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 71 Resp: 330

Ion	Ratio	Lower	Upper
71	100		
56	412.7	171.4	318.4#
85	0.0	12.6	23.4#

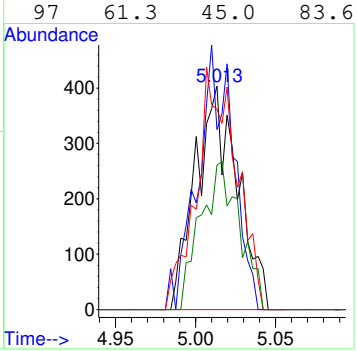


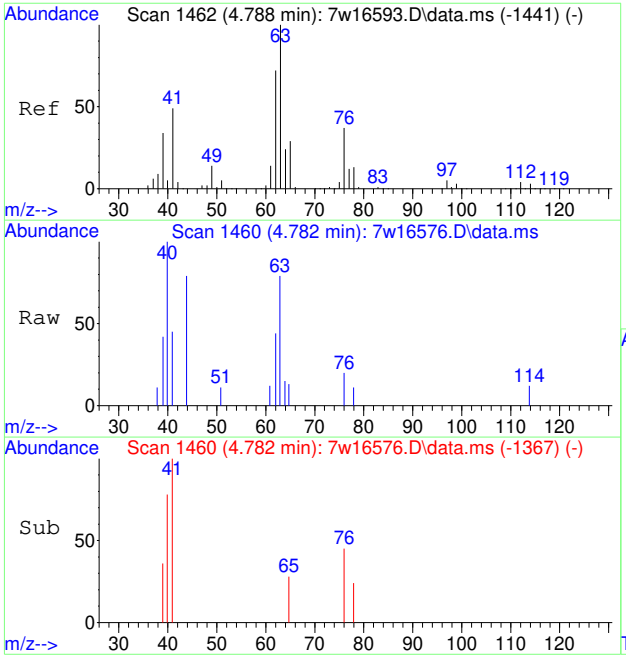


#55
TRICHLOROETHENE
Concen: 0.04 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 95 Resp: 741

Ion	Ratio	Lower	Upper
95	100		
130	98.4	85.9	159.5
132	101.9	79.4	147.4
97	61.3	45.0	83.6

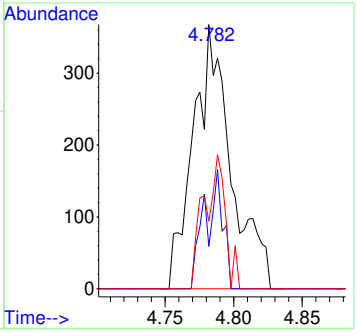


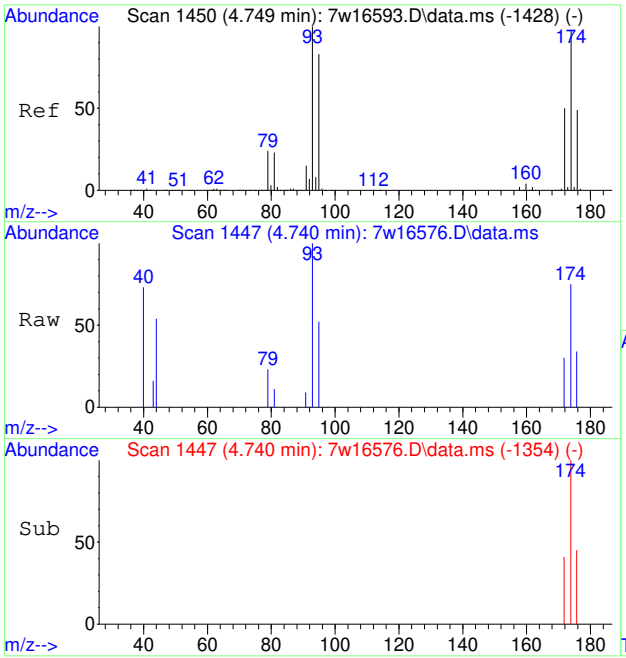


#56
1,2-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 703

Ion	Ratio	Lower	Upper
63	100		
65	21.5	22.6	42.0#
76	28.7	31.8	59.0#

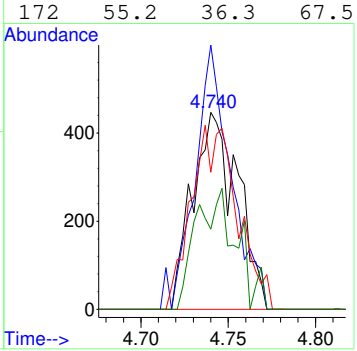


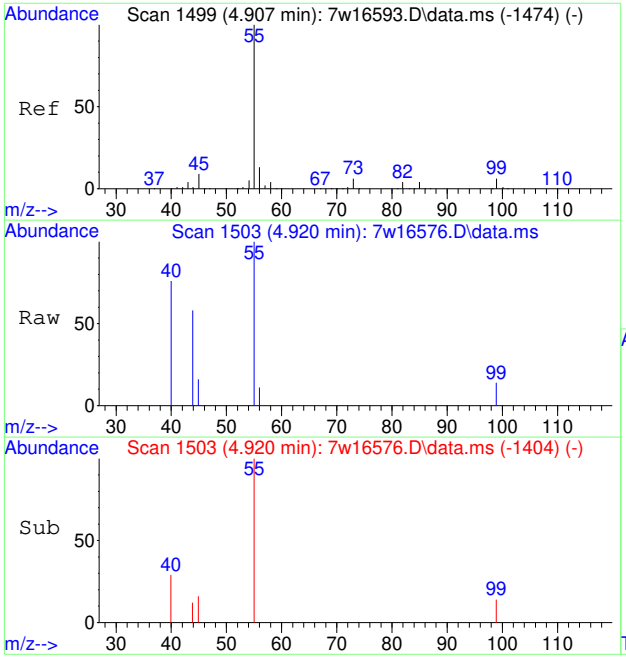


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:174 Resp: 802

Ion	Ratio	Lower	Upper
174	100		
93	108.0	67.3	125.1
95	95.5	56.8	105.6
172	55.2	36.3	67.5

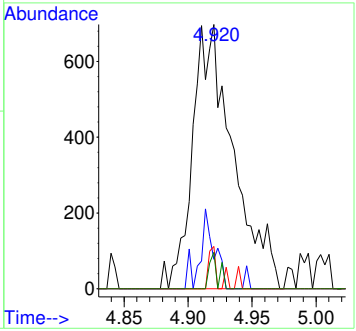


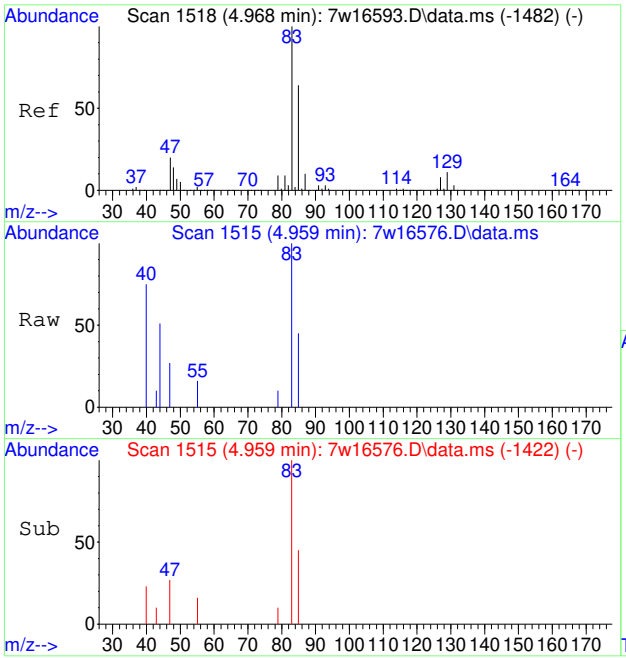


#58
ETHYL ACRYLATE
Concen: 0.04 PPBV
RT: 4.920 min Scan# 1503
Delta R.T. 0.020 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1547

Ion	Ratio	Lower	Upper
55	100		
56	10.5	7.9	14.7
45	4.1	6.6	12.2#
99	0.0	6.2	11.6#

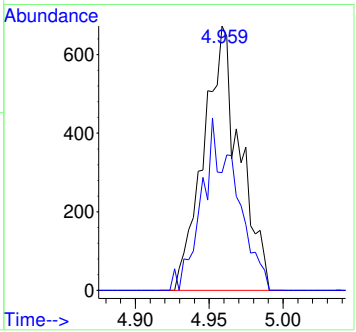


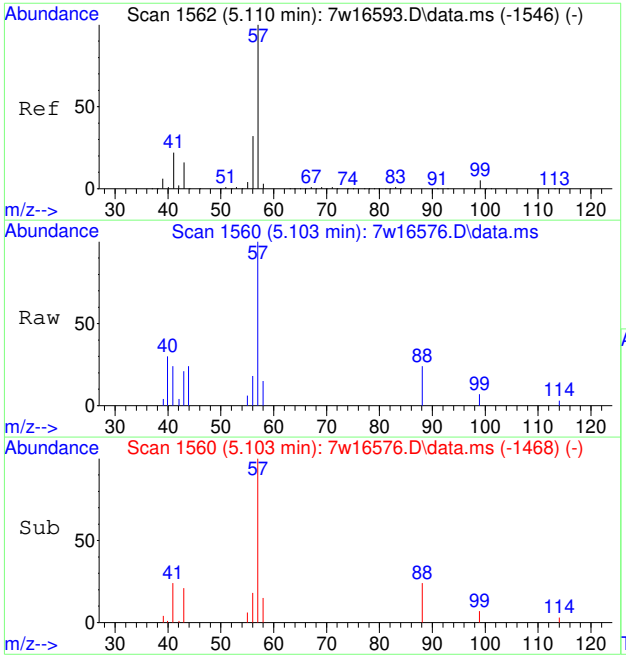


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1145

Ion	Ratio	Lower	Upper
83	100		
85	62.1	44.9	83.5

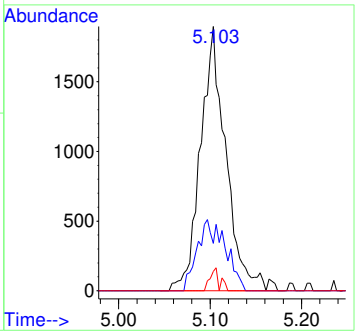


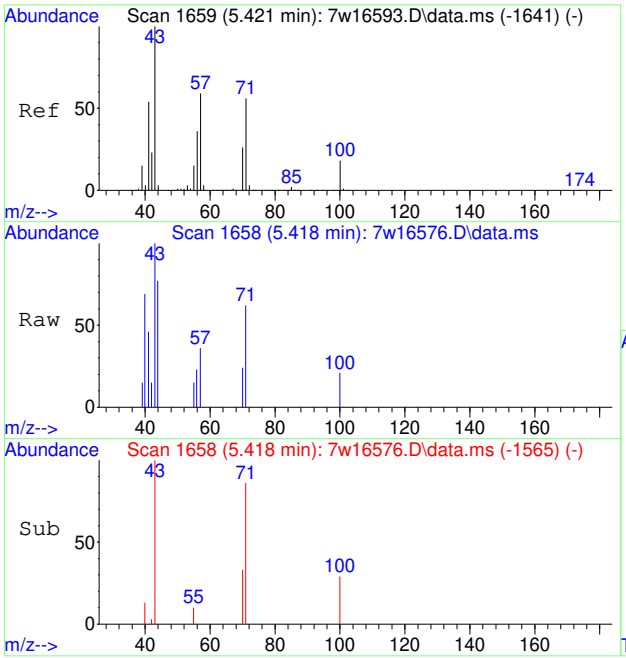


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 3683

Ion	Ratio	Lower	Upper
57	100		
56	29.4	24.4	45.2
99	3.2	5.2	9.6#

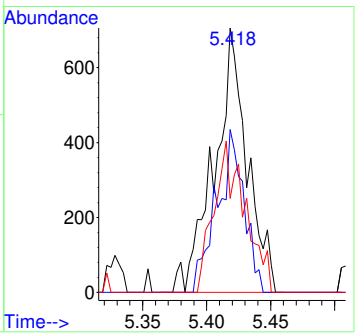


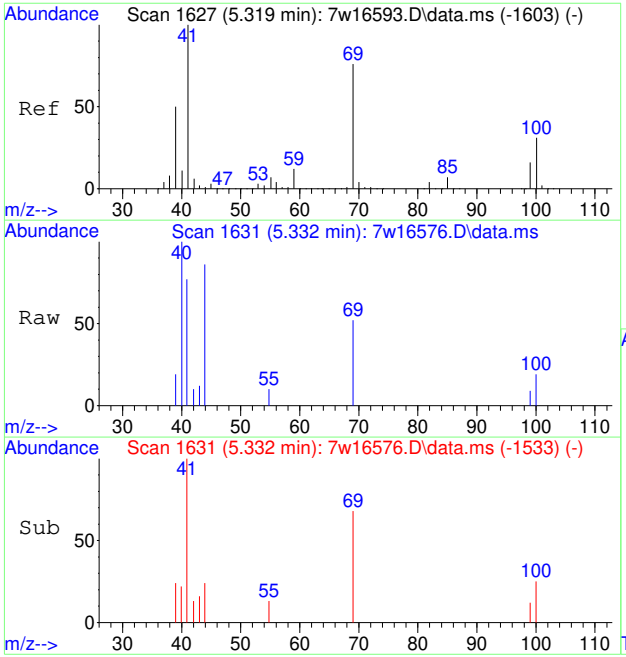


#62
HEPTANE
Concen: 0.05 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1262

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	54.4	37.2	69.0

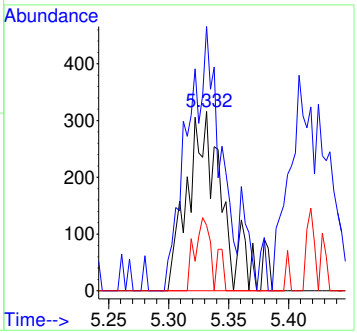


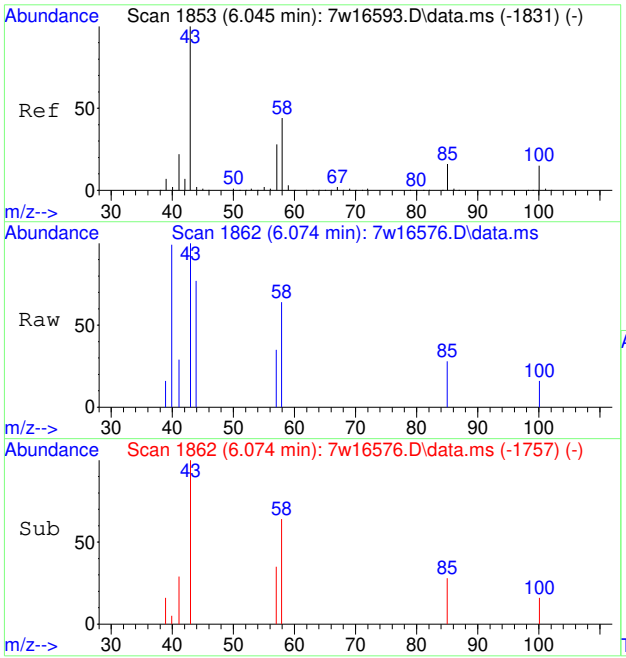


#63
METHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 5.332 min Scan# 1631
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 659

Ion	Ratio	Lower	Upper
69	100		
41	150.2	84.3	156.5
100	20.9	30.8	57.2#

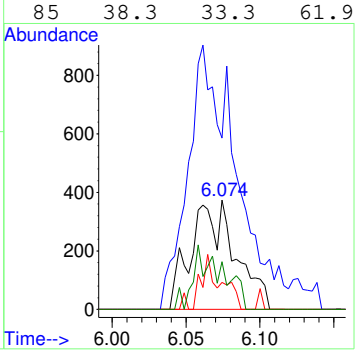


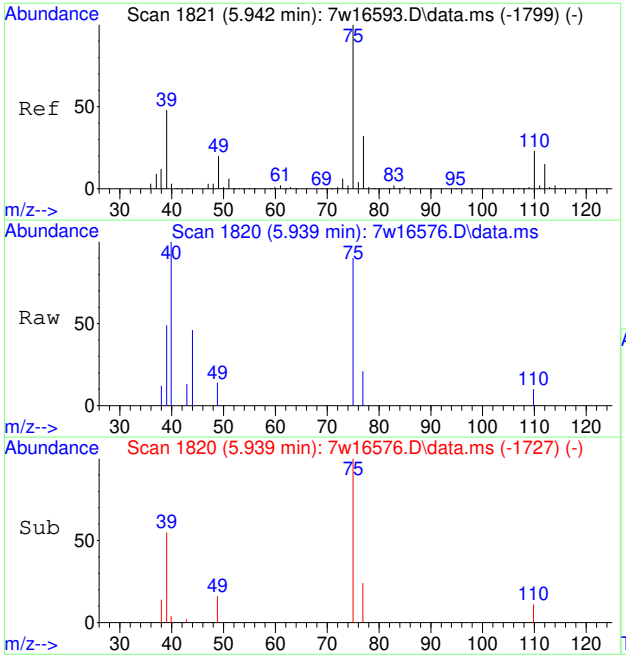


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 6.074 min Scan# 1862
Delta R.T. 0.039 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 776

Ion	Ratio	Lower	Upper
58	100		
43	276.2	193.8	360.0
100	23.3	32.8	60.8#
85	38.3	33.3	61.9

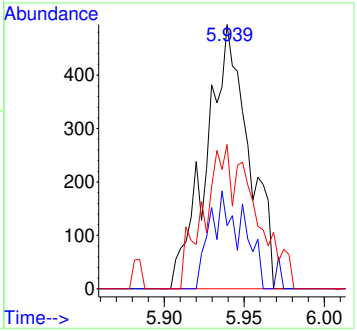


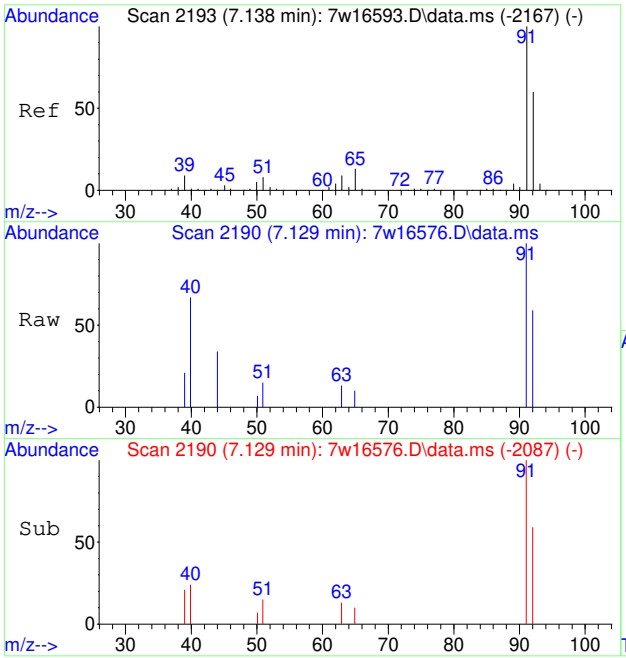


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 908

Ion	Ratio	Lower	Upper
75	100		
77	28.3	22.0	40.8
39	65.5	38.5	71.5

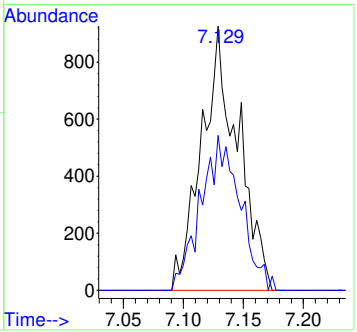


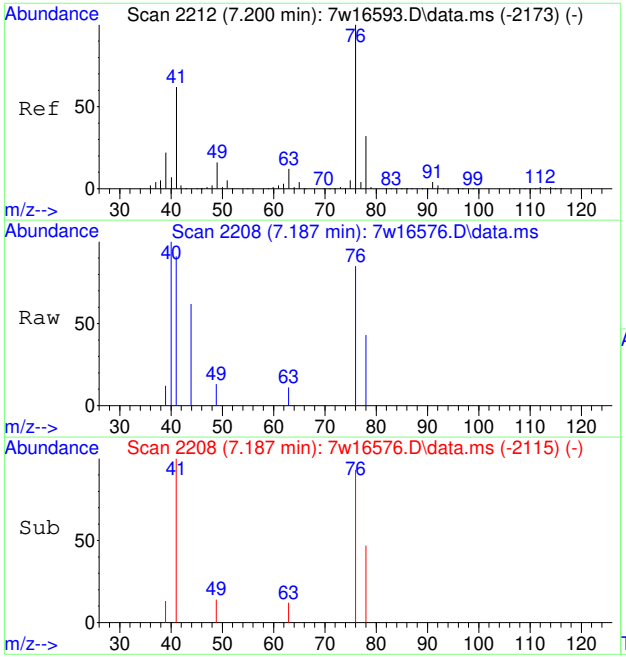


#66
TOLUENE
Concen: 0.04 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1961

Ion	Ratio	Lower	Upper
91	100		
92	62.6	28.1	88.1

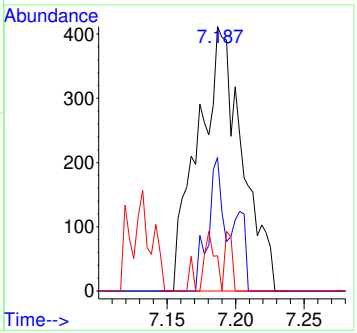


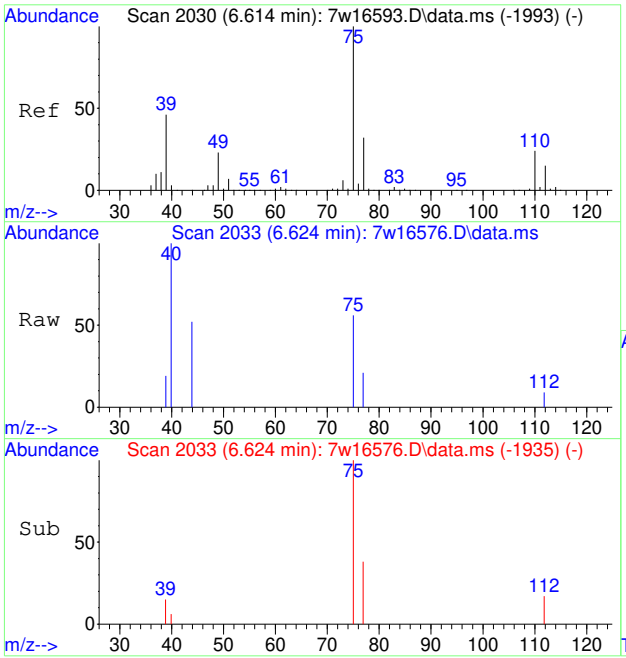


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 917

Ion	Ratio	Lower	Upper
76	100		
78	26.3	22.1	41.1
63	6.5	8.0	14.8#

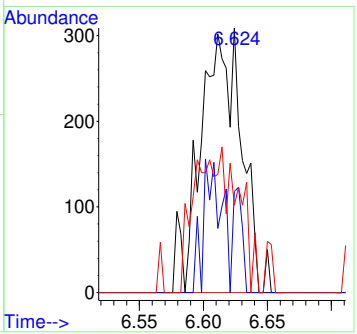


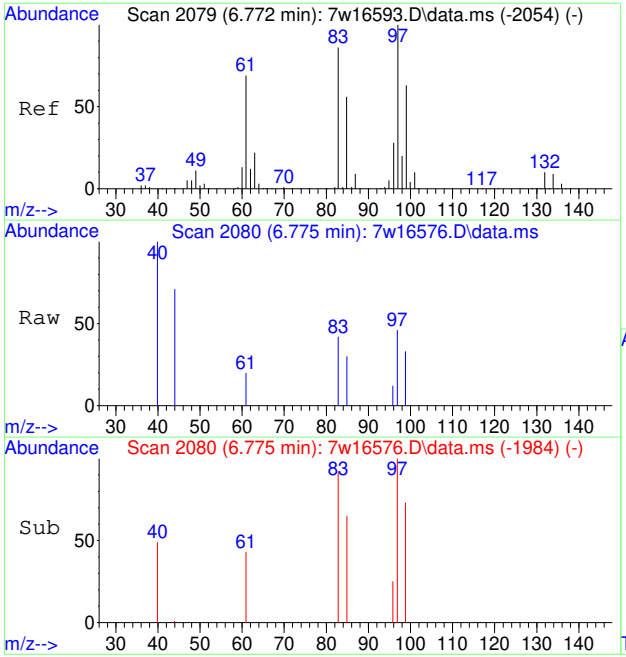


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 6.624 min Scan# 2033
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 685

Ion	Ratio	Lower	Upper
75	100		
77	0.0	22.5	41.7#
39	59.0	37.2	69.0

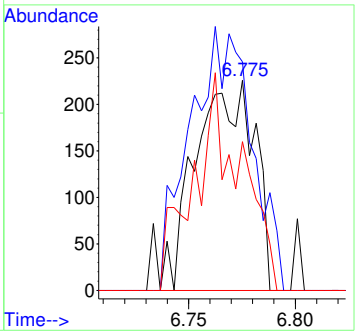


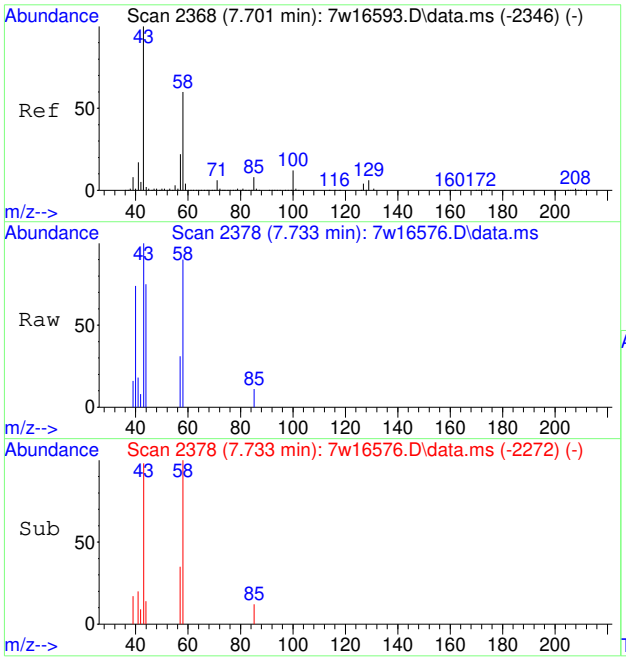


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 6.775 min Scan# 2080
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 432

Ion	Ratio	Lower	Upper
83	100		
97	131.5	86.7	160.9
85	82.9	45.5	84.5

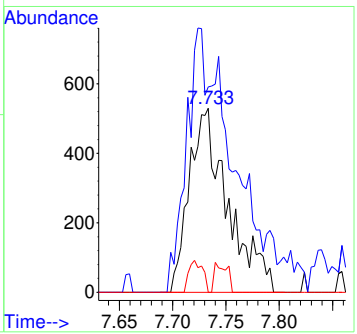


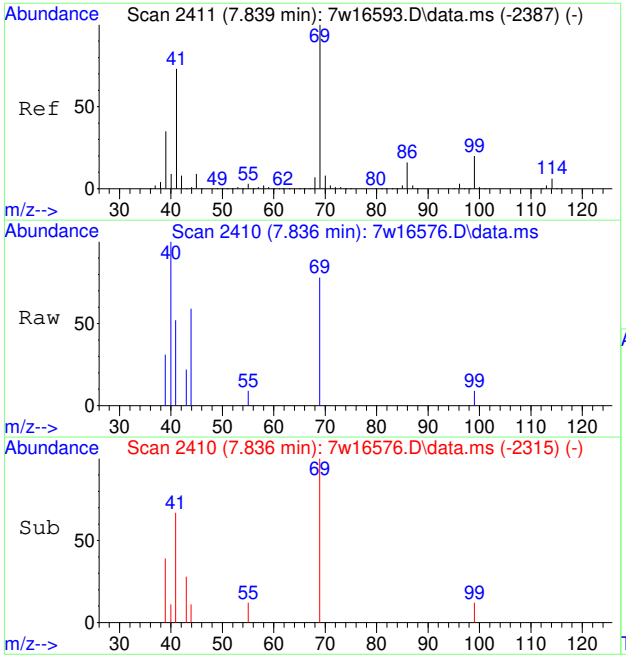


#70
2-HEXANONE
Concen: 0.06 PPBV
RT: 7.733 min Scan# 2378
Delta R.T. 0.042 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 1334

Ion	Ratio	Lower	Upper
58	100		
43	0.0	141.7	263.3#
100	5.2	18.9	35.1#

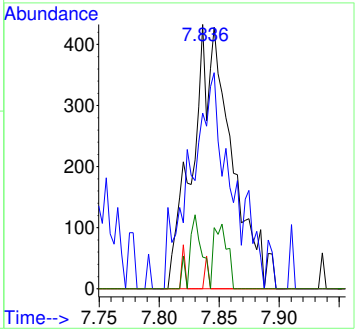


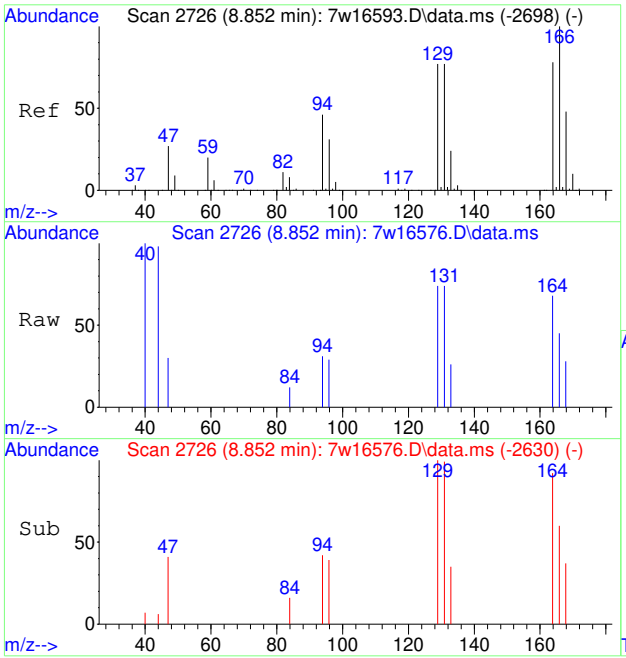


#71
ETHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 991

Ion	Ratio	Lower	Upper
69	100		
41	0.0	49.3	91.6#
86	0.0	11.6	21.6#
99	8.7	13.4	24.8#

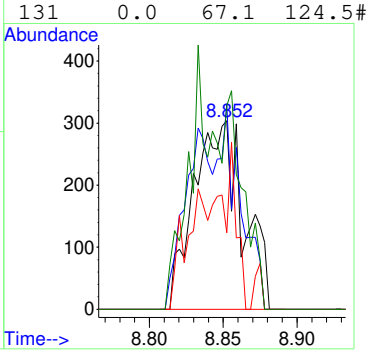


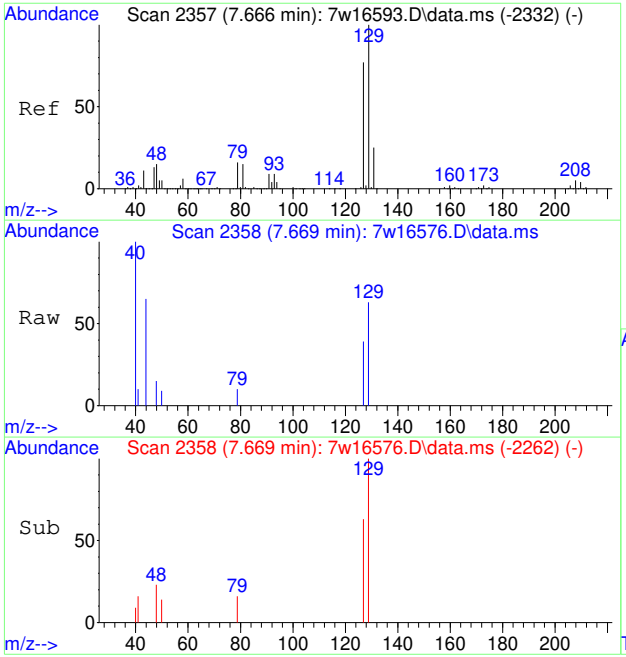


#72
TETRACHLOROETHENE
Concen: 0.04 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:164 Resp: 707

Ion	Ratio	Lower	Upper
164	100		
129	101.7	69.7	129.5
168	63.5	43.4	80.6
131	0.0	67.1	124.5#

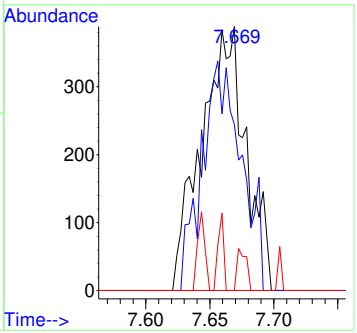


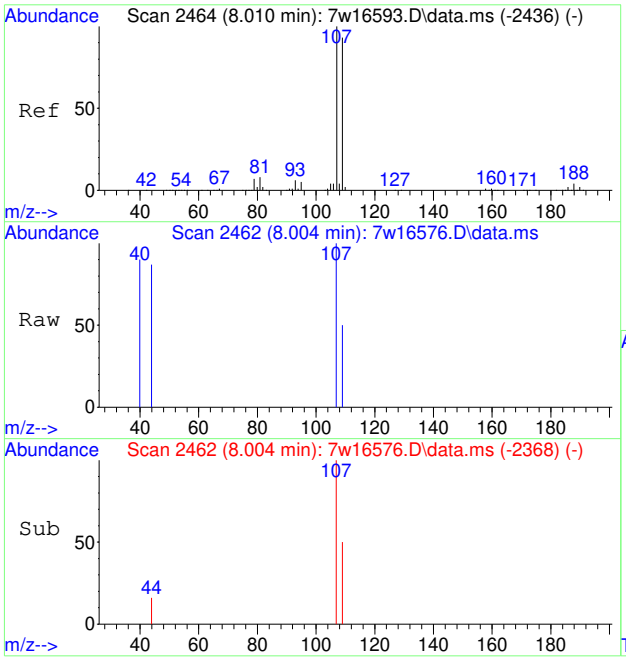


#73
DIBROMOCHLOROMETHANE
Concen: 0.03 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:129 Resp: 938

Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.0	98.4#
131	0.0	16.9	31.3#

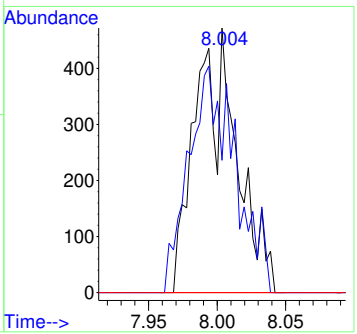


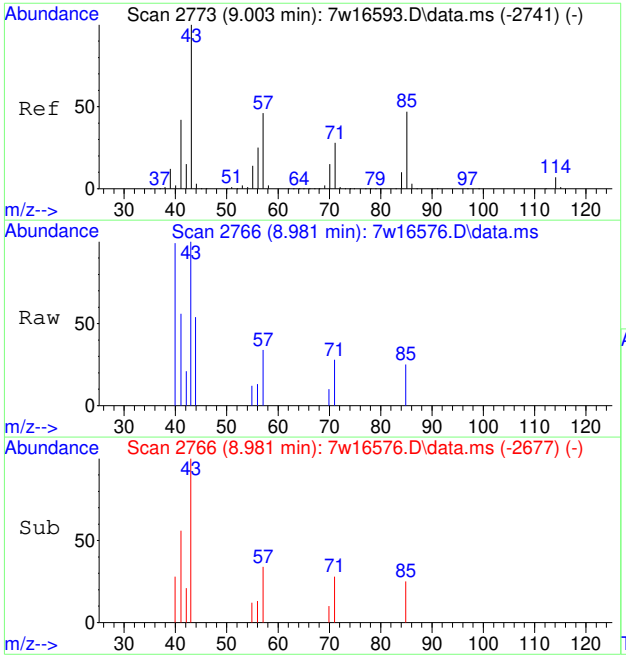


#74
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 8.004 min Scan# 2462
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:107 Resp: 998

Ion	Ratio	Lower	Upper
107	100		
109	95.5	65.7	122.1
188	0.0	2.4	4.4#

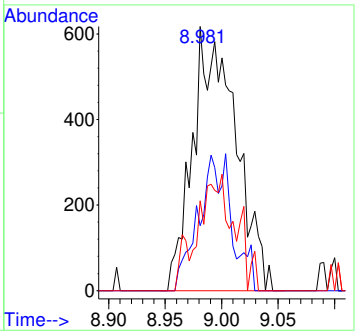


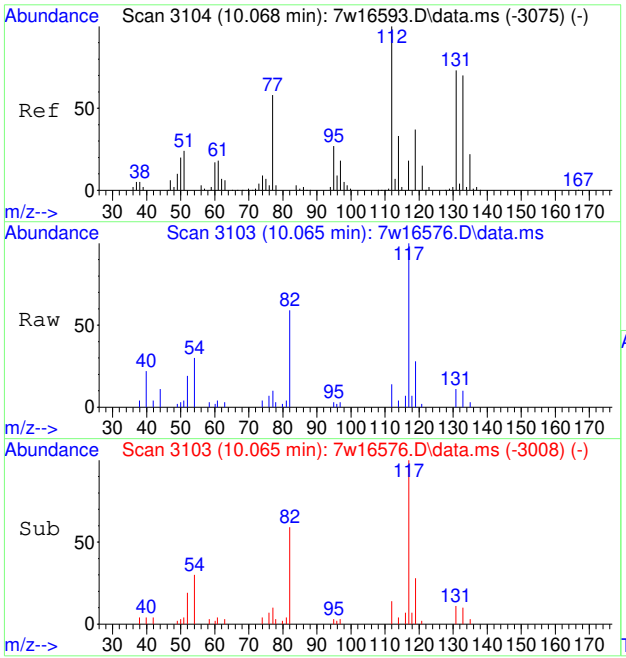


#75
OCTANE
Concen: 0.04 PPBV
RT: 8.981 min Scan# 2766
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1632

Ion	Ratio	Lower	Upper
43	100		
85	0.0	36.5	67.9#
57	0.0	27.6	51.2#

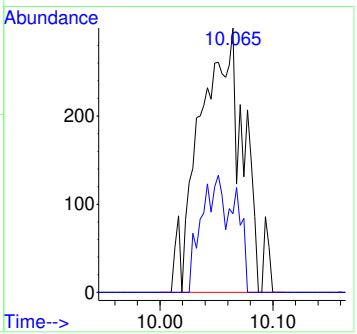


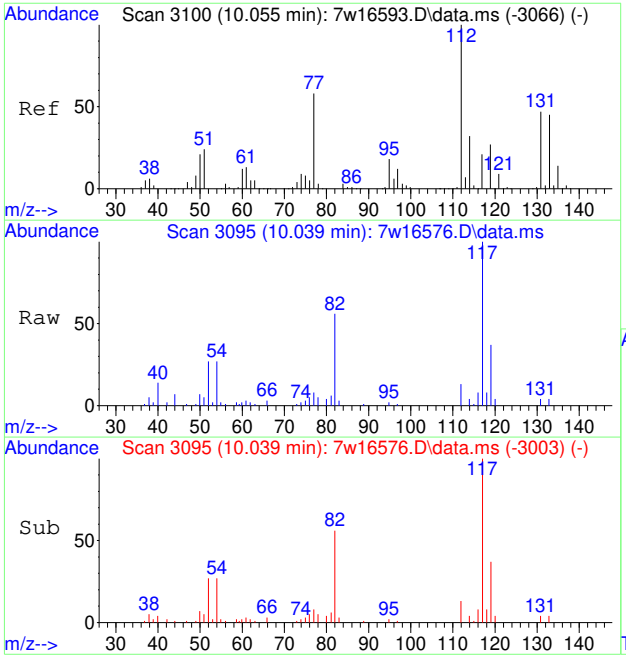


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 10.065 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:131 Resp: 804

Ion	Ratio	Lower	Upper
131	100		
95	33.6	23.7	43.9

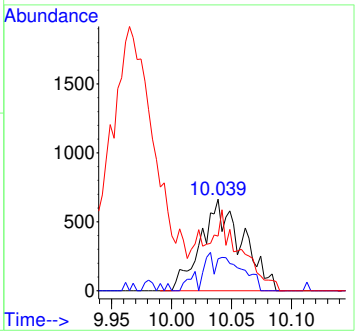


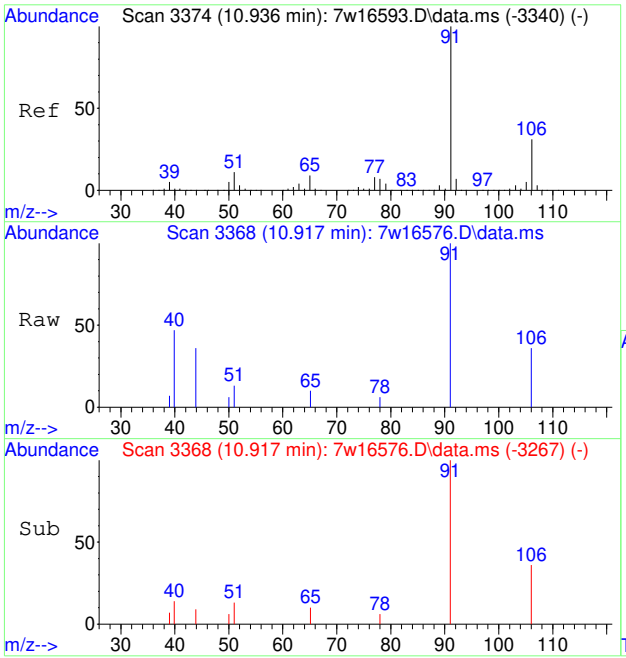


#78
CHLOROBENZENE
Concen: 0.04 PPBV
RT: 10.039 min Scan# 3095
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:112 Resp: 1584

Ion	Ratio	Lower	Upper
112	100		
114	37.2	22.9	42.5
77	74.4	34.4	63.8#

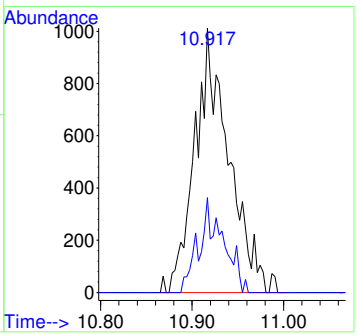


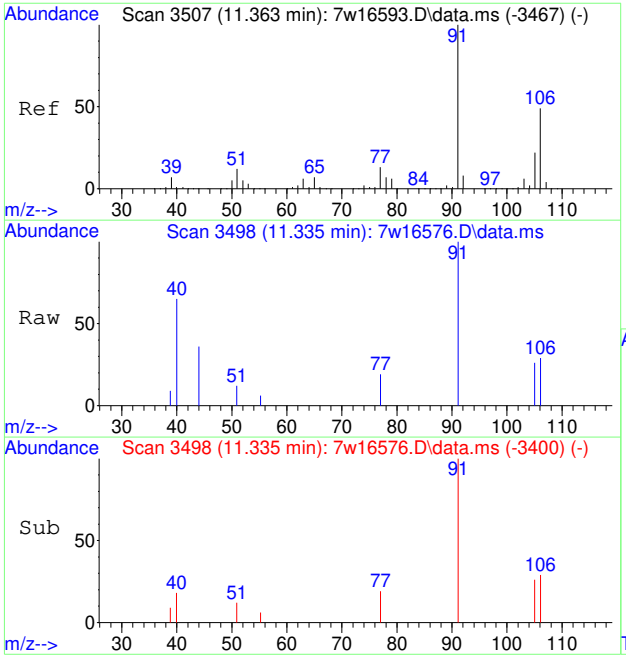


#79
ETHYLBENZENE
Concen: 0.04 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2610

Ion	Ratio	Lower	Upper
91	100		
106	25.6	2.8	62.8

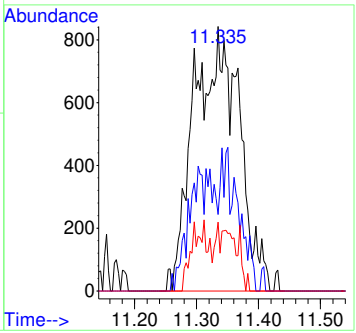


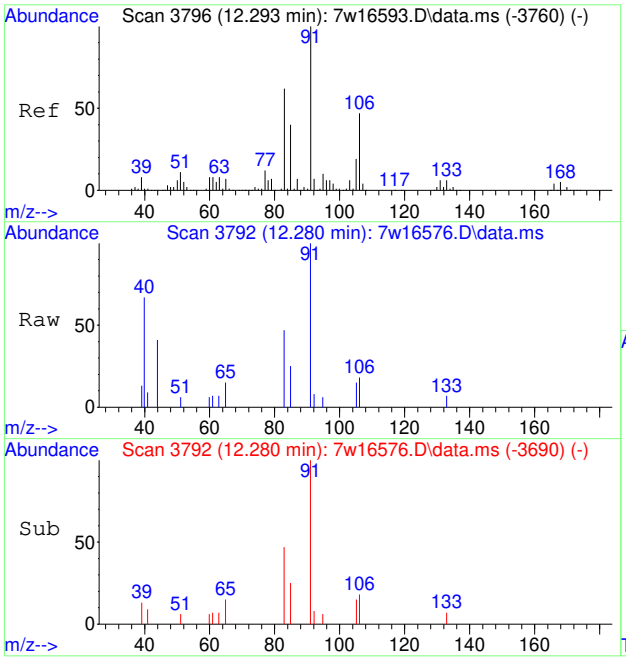


#80
M,P-XYLENE
Concen: 0.08 PPBV
RT: 11.335 min Scan# 3498
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 4291

Ion	Ratio	Lower	Upper
91	100		
106	22.1	0.0	58.7
105	11.4	0.0	43.2

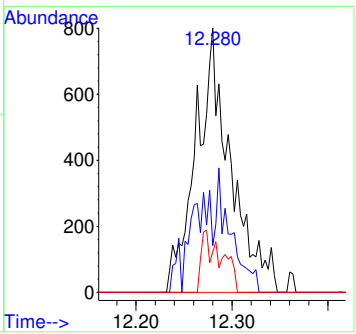


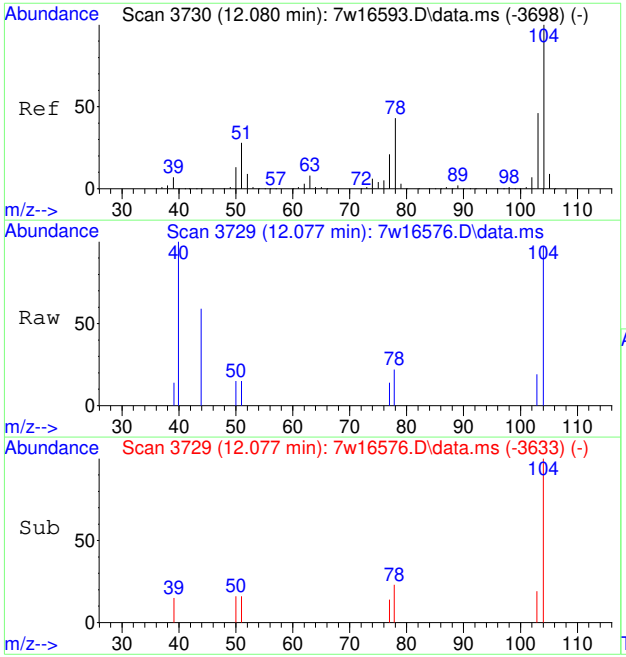


#81
O-XYLENE
Concen: 0.04 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2009

Ion	Ratio	Lower	Upper
91	100		
106	17.6	34.1	63.3#
105	15.4	14.6	27.2

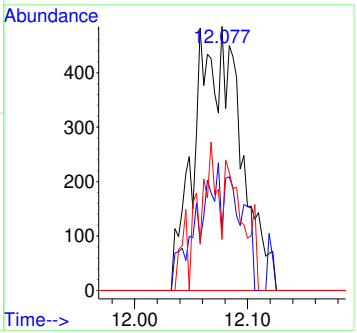


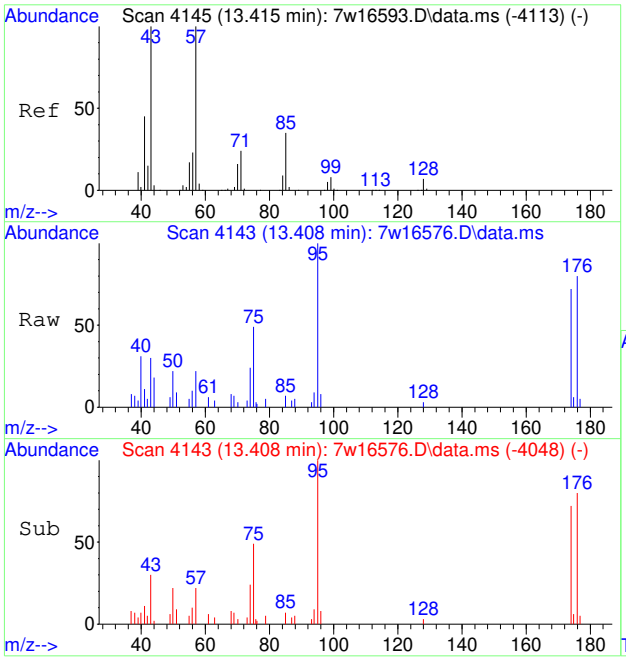


#82
STYRENE
Concen: 0.04 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:104 Resp: 1372

Ion	Ratio	Lower	Upper
104	100		
78	43.2	25.3	46.9
103	46.0	33.2	61.7

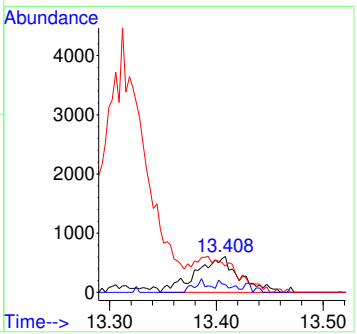


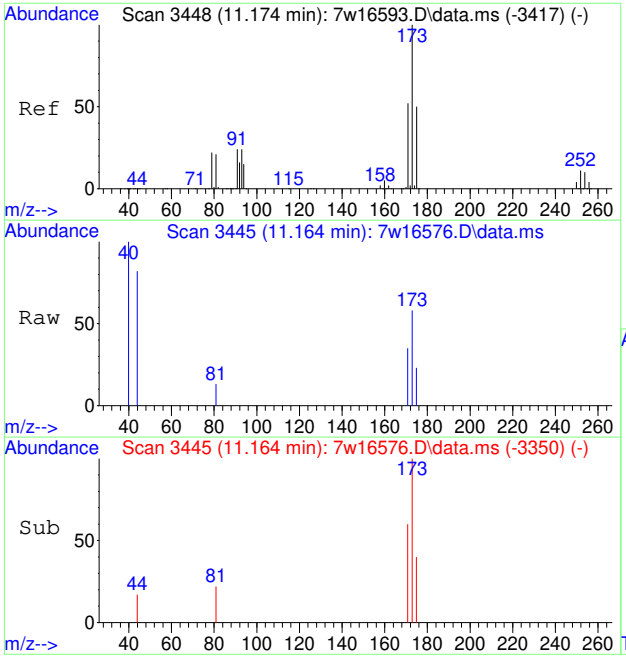


#83
NONANE
Concen: 0.04 PPBV
RT: 13.408 min Scan# 4143
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1708

Ion	Ratio	Lower	Upper
43	100		
85	6.0	27.6	51.2#
57	0.0	56.4	104.7#

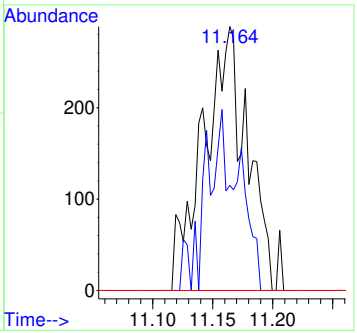


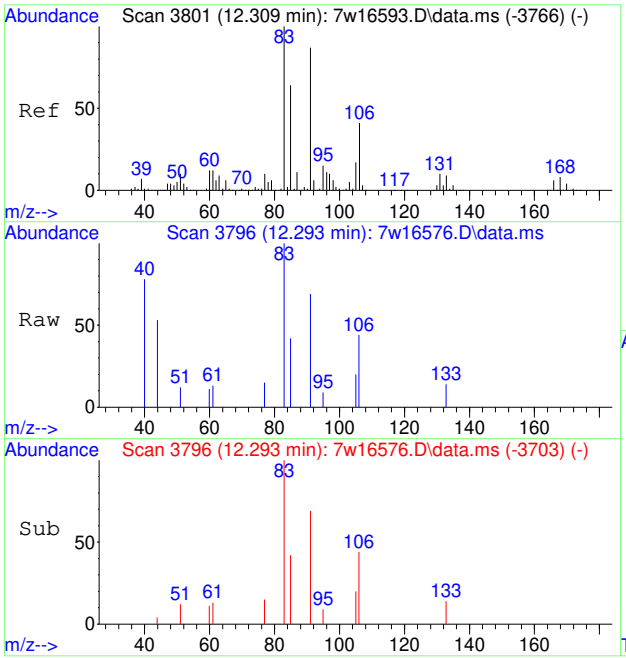


#84
BROMOFORM
Concen: 0.03 PPBV
RT: 11.164 min Scan# 3445
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:173 Resp: 746

Ion	Ratio	Lower	Upper
173	100		
175	50.7	33.0	61.4
254	0.0	5.9	10.9#

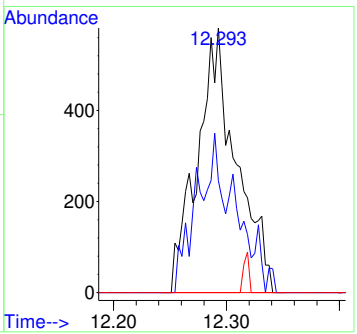


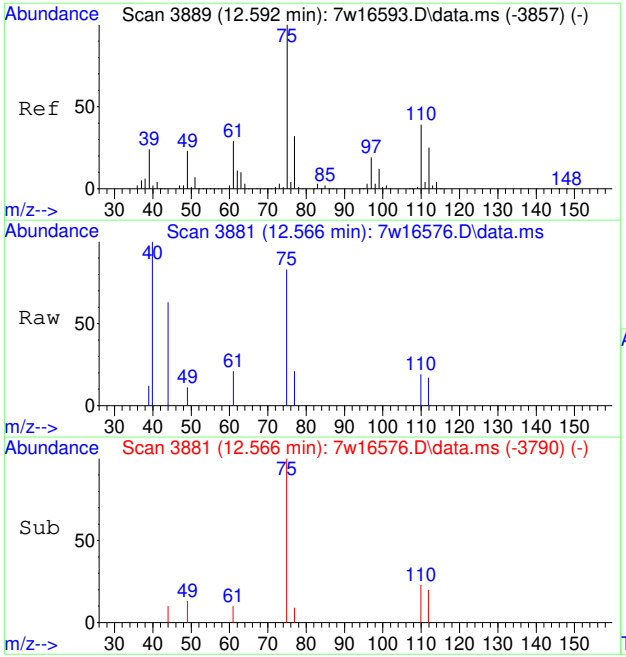


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1386

Ion	Ratio	Lower	Upper
83	100		
85	59.8	44.6	82.8
131	0.0	8.0	14.8#

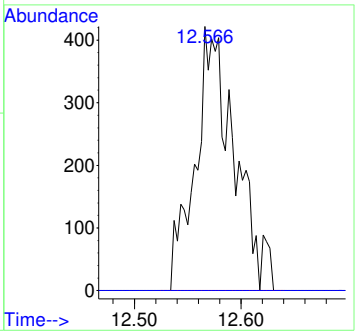


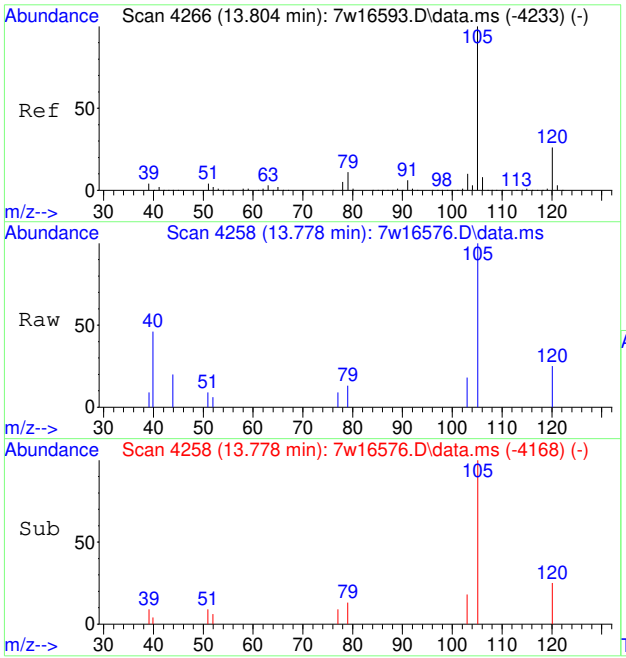


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.04 PPBV
RT: 12.566 min Scan# 3881
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 1086

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

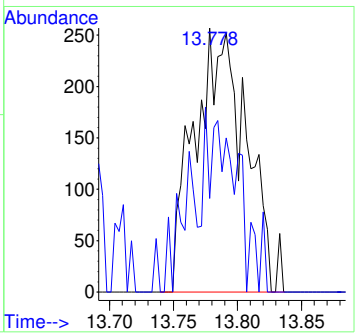


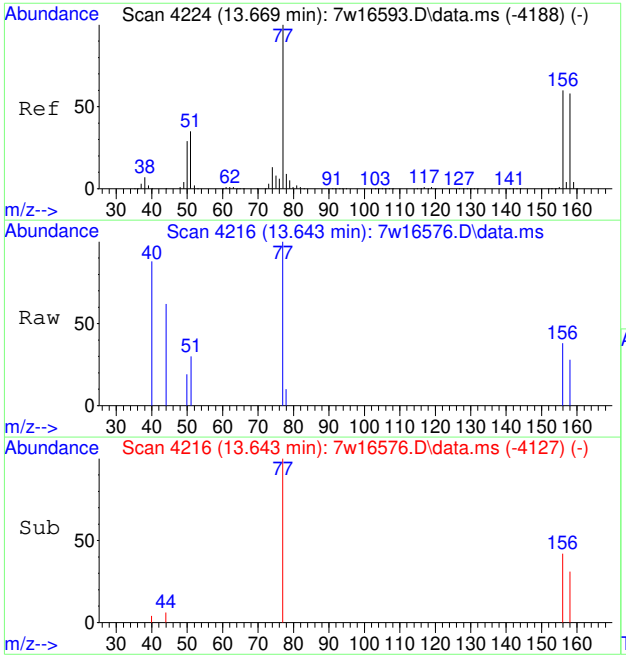


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 720

Ion	Ratio	Lower	Upper
120	100		
77	51.5	36.0	67.0

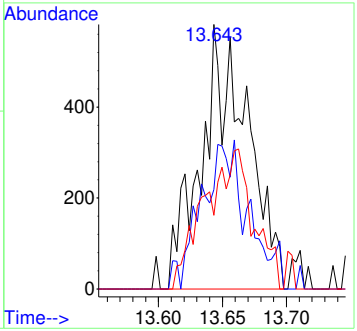


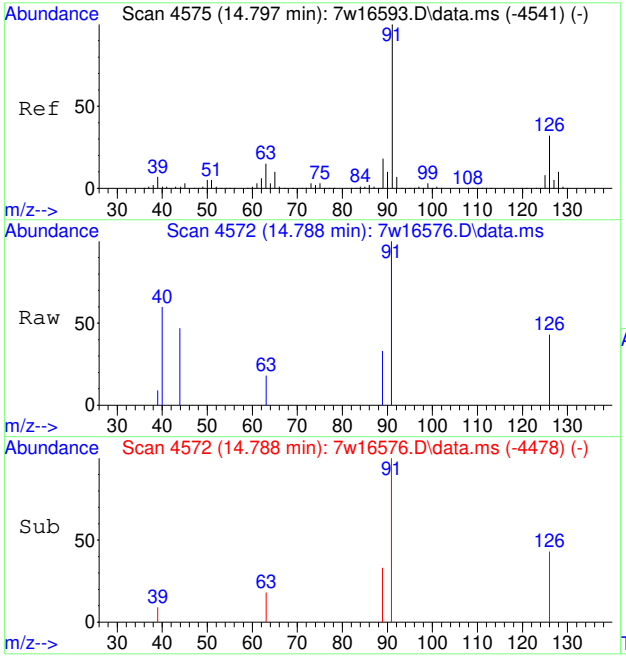


#89
BROMOBENZENE
Concen: 0.04 PPBV
RT: 13.643 min Scan# 4216
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 77 Resp: 1476

Ion	Ratio	Lower	Upper
77	100		
156	56.1	57.9	107.5#
158	57.3	55.7	103.5

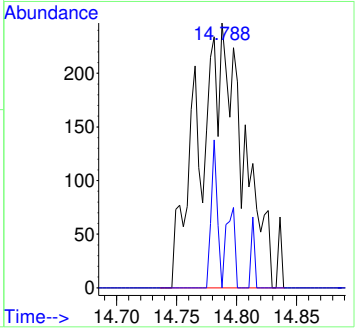


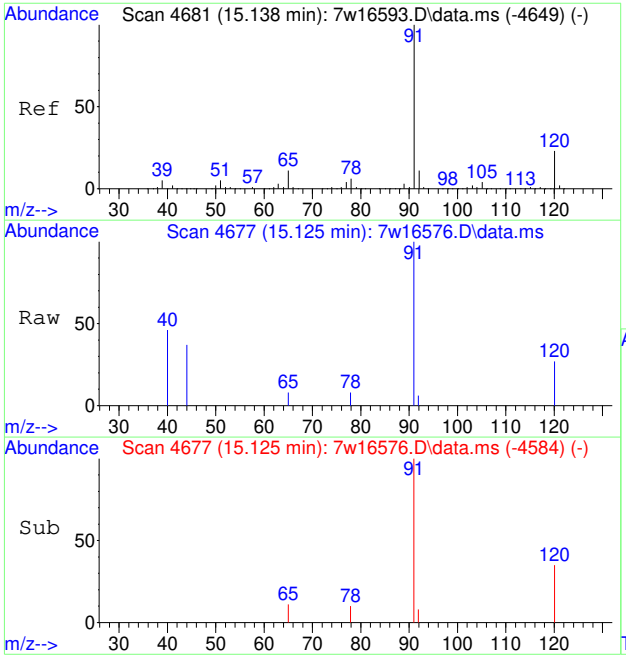


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:126 Resp: 652

Ion	Ratio	Lower	Upper
126	100		
128	13.3	22.7	42.1#

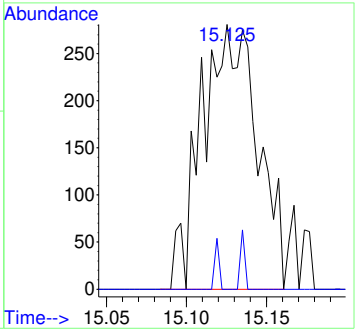


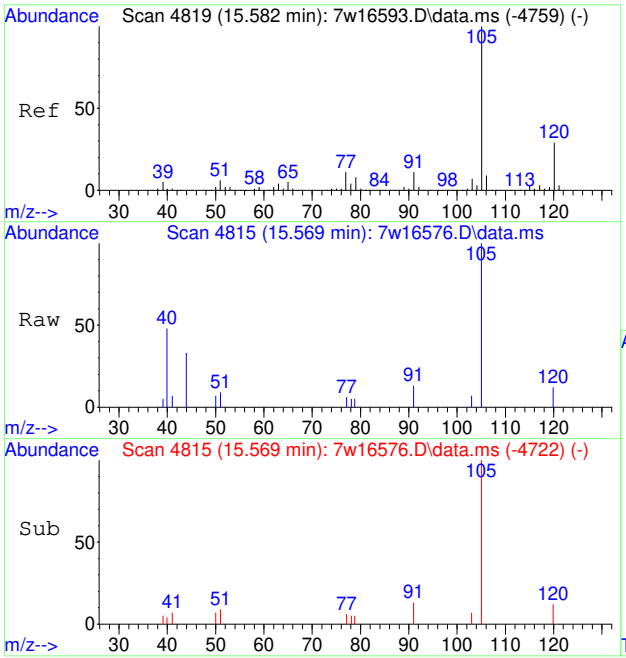


#91
N-PROPYLBENZENE
Concen: 0.03 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 688

Ion	Ratio	Lower	Upper
120	100		
105	0.0	10.6	19.6#

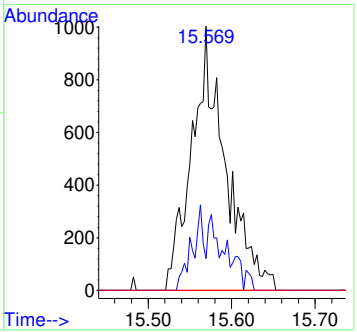


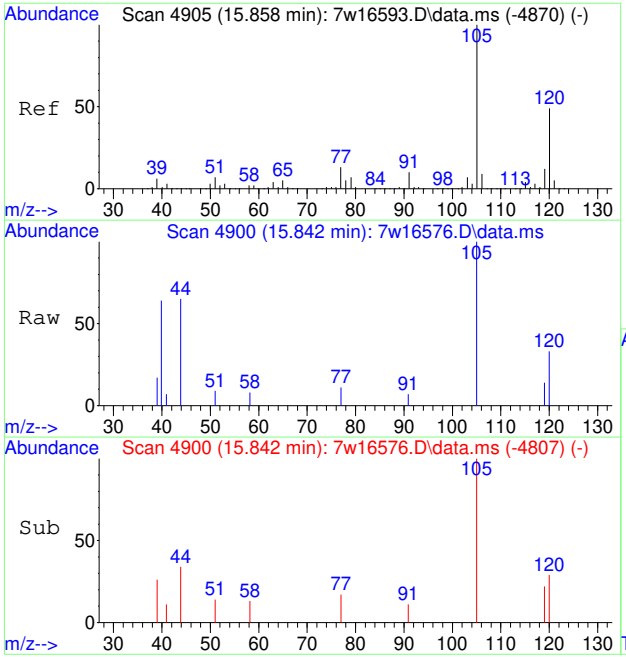


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2796

Ion	Ratio	Lower	Upper
105	100		
120	27.0	21.8	40.4
119	0.0	1.7	3.1#

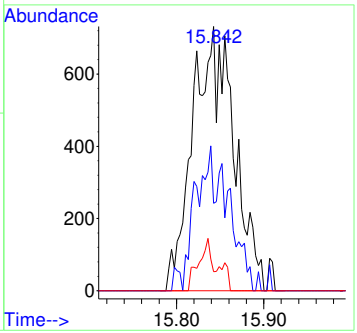


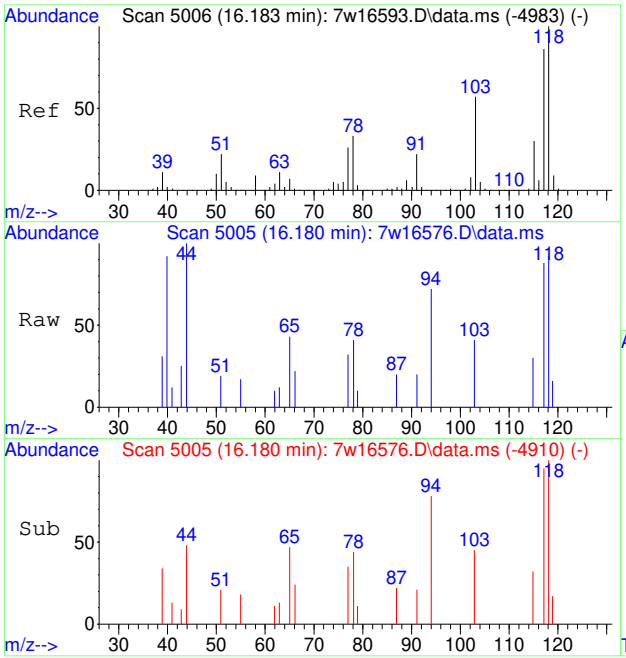


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2434

Ion	Ratio	Lower	Upper
105	100		
120	43.9	37.2	69.2
91	8.6	7.5	13.9

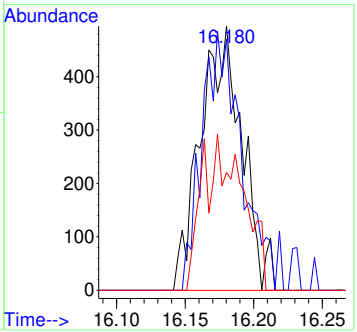


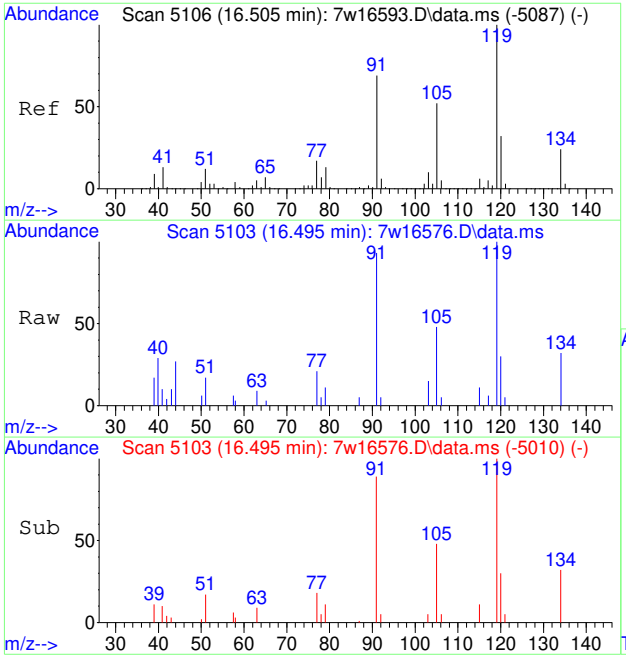


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:118 Resp: 1042

Ion	Ratio	Lower	Upper
118	100		
117	94.9	59.9	111.3
103	57.4	36.2	67.2

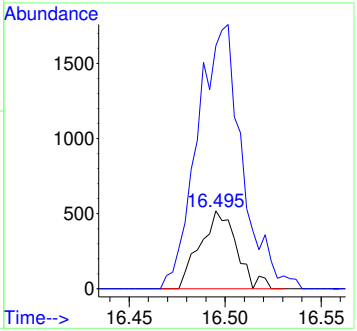


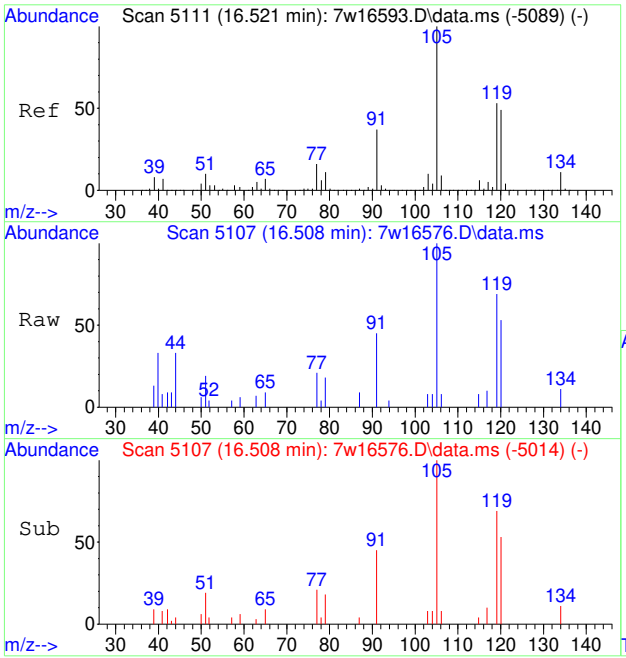


#95
TERT-BUTYLBENZENE
Concen: 0.05 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 685

Ion	Ratio	Lower	Upper
134	100		
119	417.1	307.9	571.7

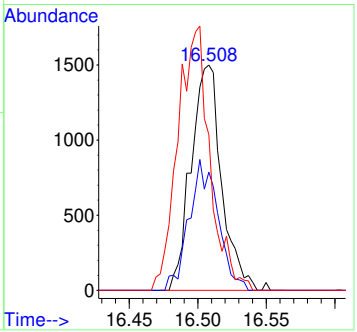


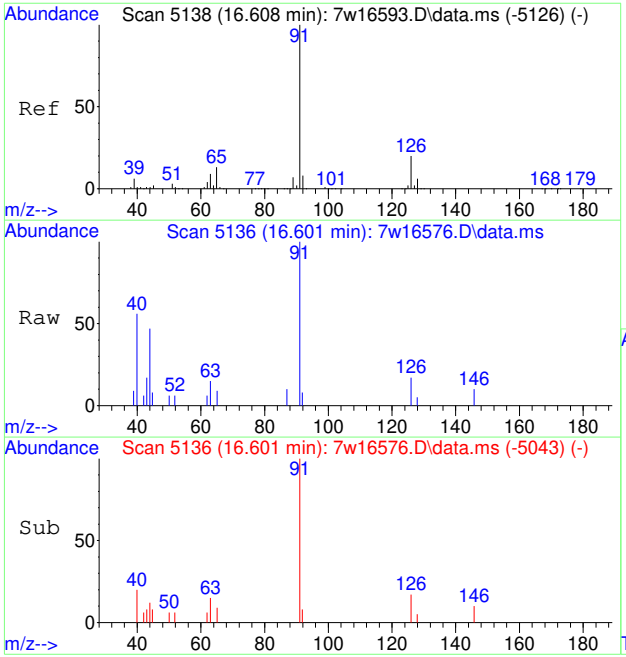


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2331

Ion	Ratio	Lower	Upper
105	100		
120	54.7	40.9	75.9
119	122.6	78.0	144.8

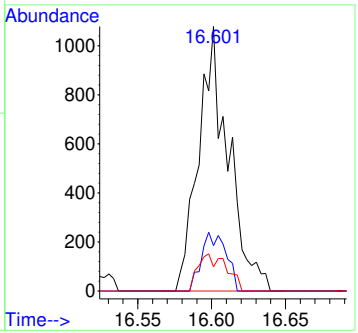


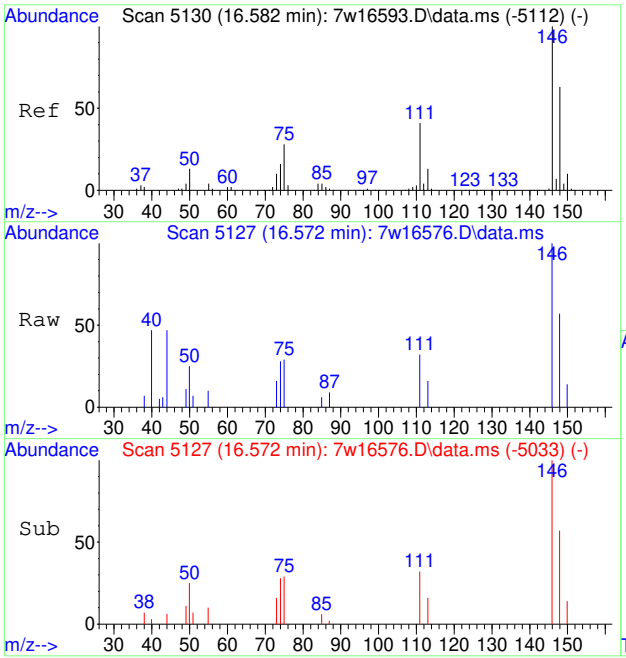


#97
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1503

Ion	Ratio	Lower	Upper
91	100		
126	18.2	17.2	32.0
65	13.4	7.3	13.7

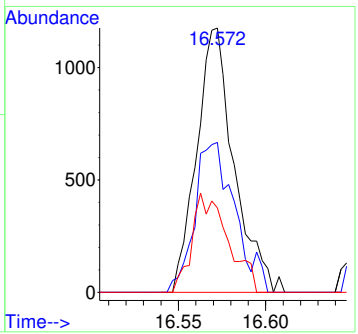


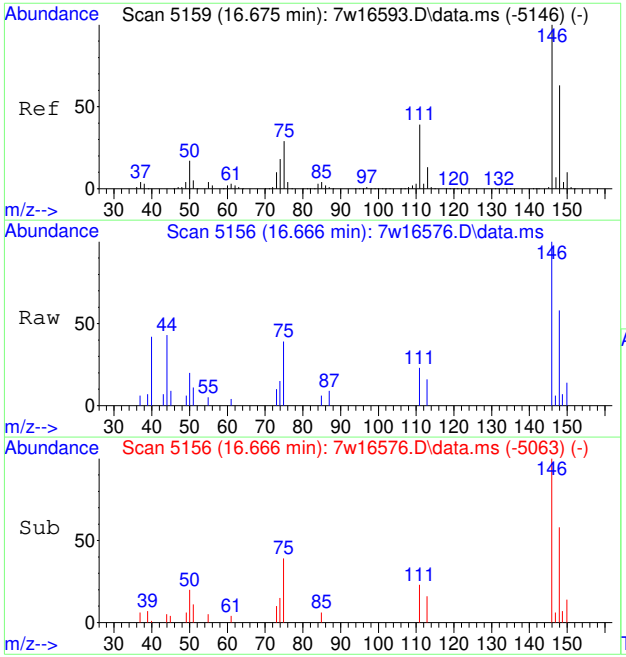


#98
M-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1758

Ion	Ratio	Lower	Upper
146	100		
148	60.6	44.2	82.2
111	35.9	25.4	47.2

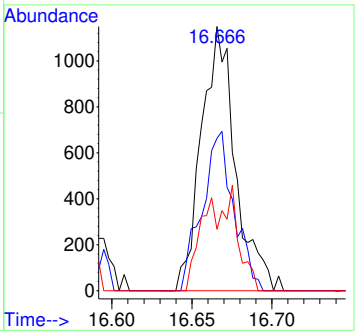


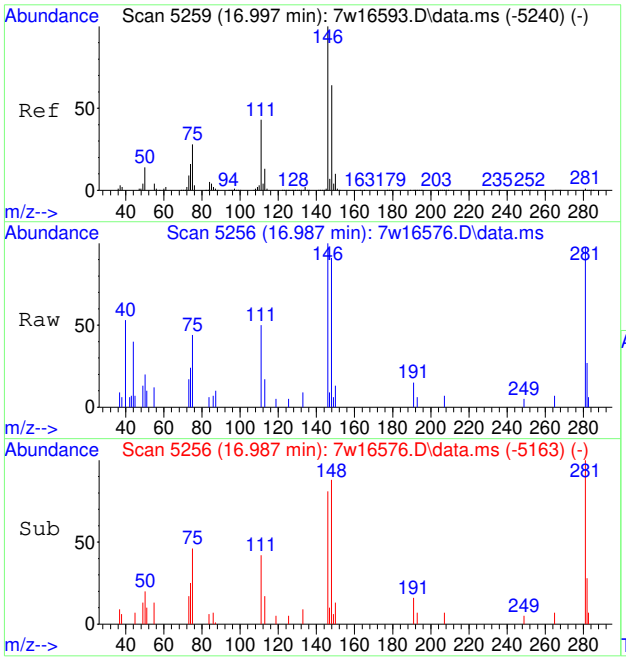


#99
P-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1701

Ion	Ratio	Lower	Upper
146	100		
148	56.6	44.7	82.9
111	37.6	24.8	46.1

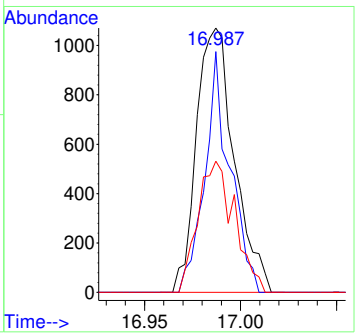


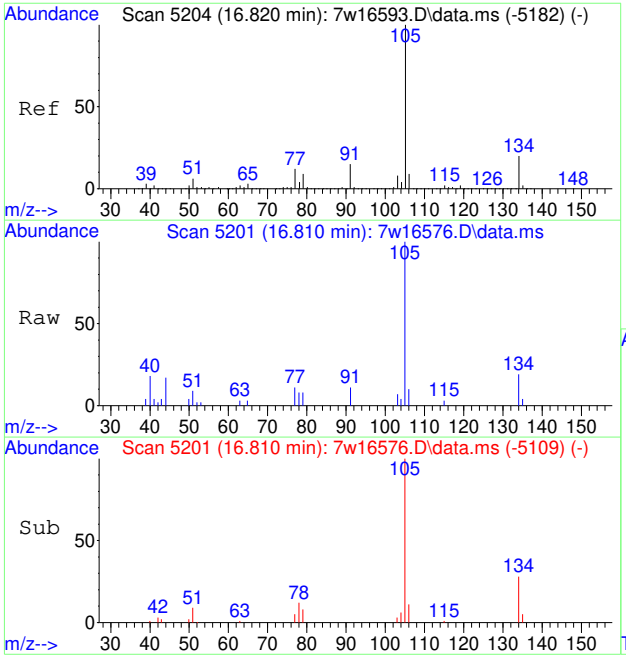


#100
O-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1470

Ion	Ratio	Lower	Upper
146	100		
148	60.7	44.6	82.8
111	48.1	26.9	50.1

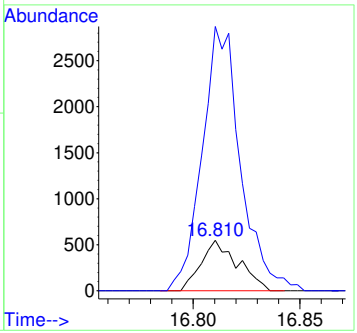


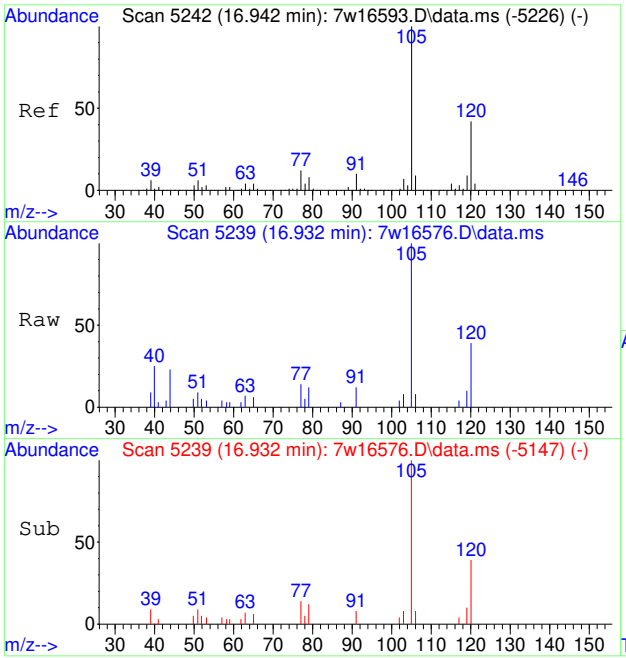


#101
SEC-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.810 min Scan# 5201
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 660

Ion	Ratio	Lower	Upper
134	100		
105	543.6	314.4	584.0

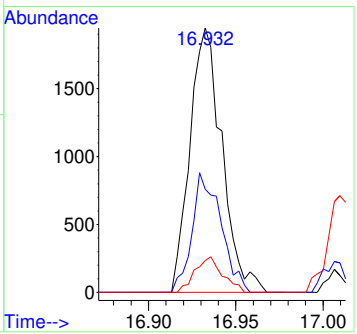


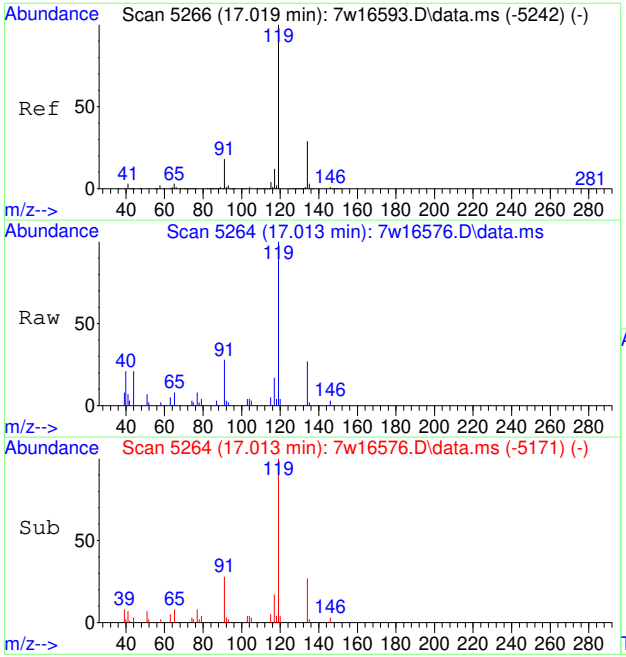


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2483

Ion	Ratio	Lower	Upper
105	100		
120	40.8	31.9	59.2
91	11.6	7.3	13.5

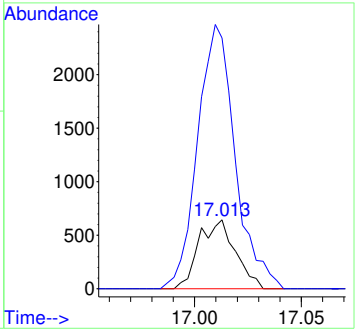


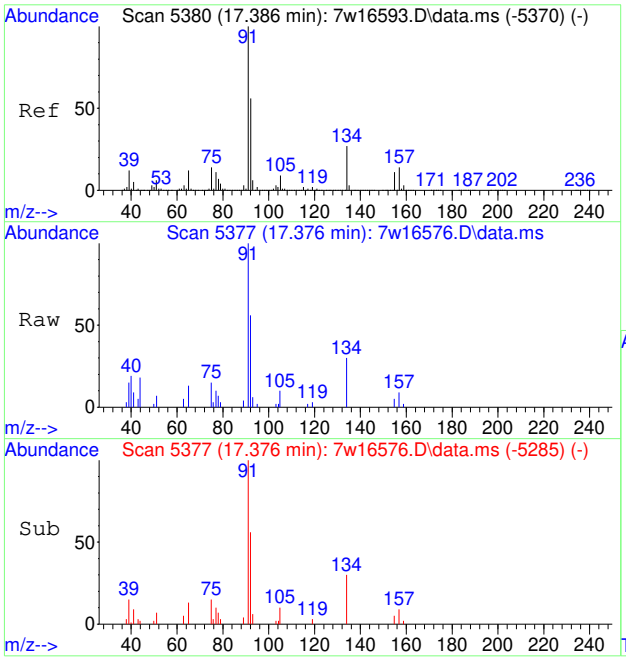


#103
P-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 767

Ion	Ratio	Lower	Upper
134	100		
119	394.7	253.7	471.3

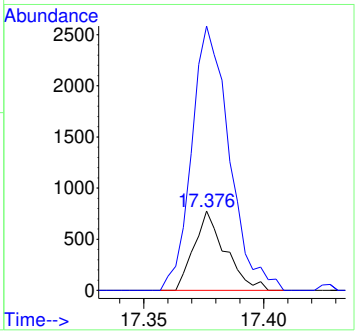


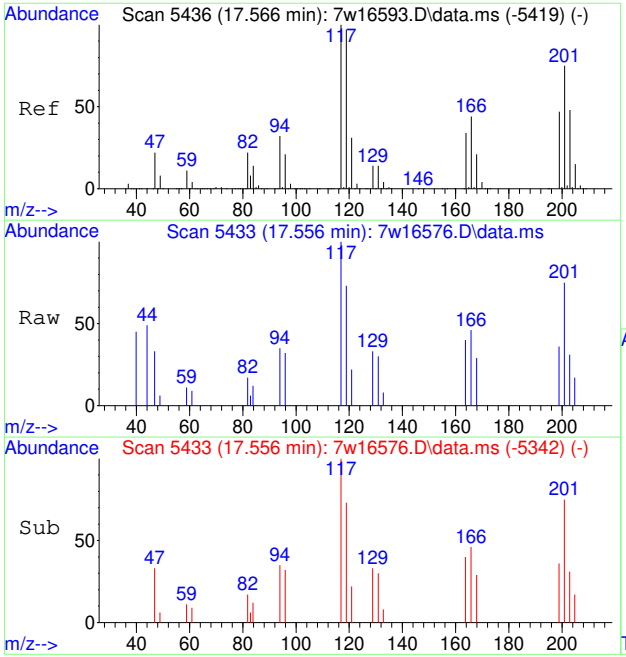


#104
N-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 703

Ion	Ratio	Lower	Upper
134	100		
91	401.0	231.1	429.1

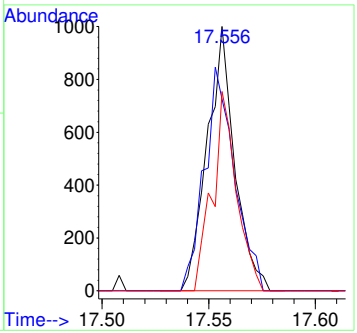


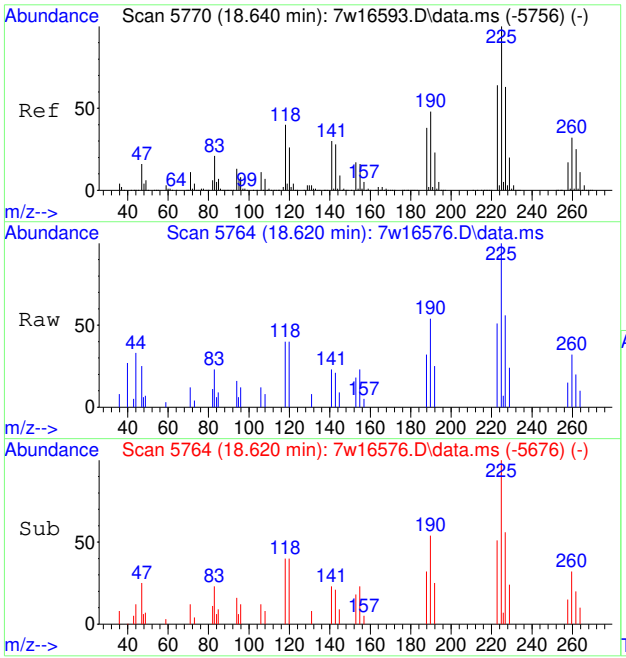


#105
HEXACHLOROETHANE
Concen: 0.04 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 895

Ion	Ratio	Lower	Upper
117	100		
119	92.8	68.3	126.9
201	66.3	45.9	85.3

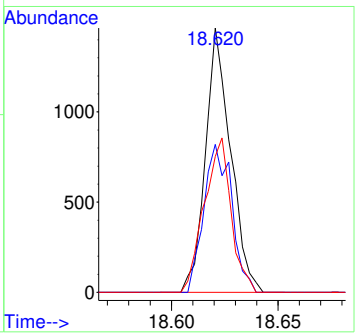


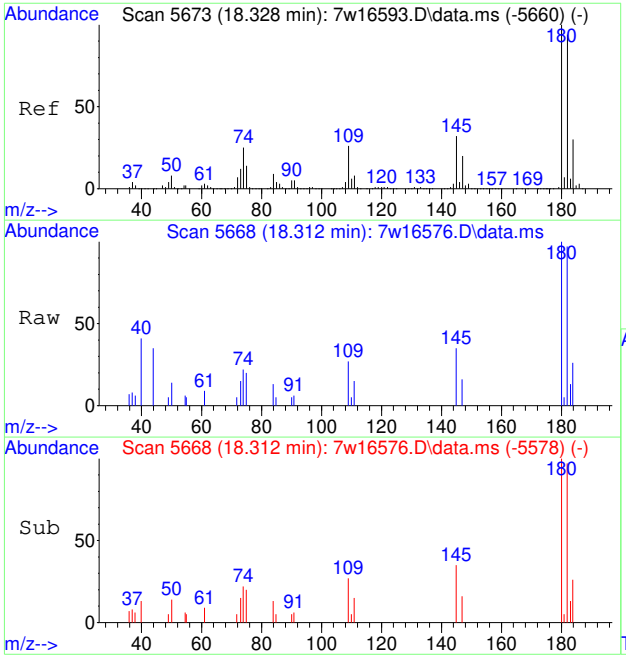


#106
HEXACHLOROBUTADIENE
Concen: 0.04 PPBV
RT: 18.620 min Scan# 5764
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:225 Resp: 1203

Ion	Ratio	Lower	Upper
225	100		
227	62.2	44.4	82.5
223	62.3	44.7	83.1

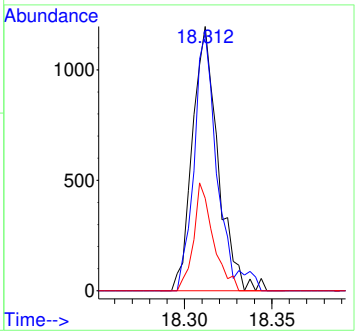


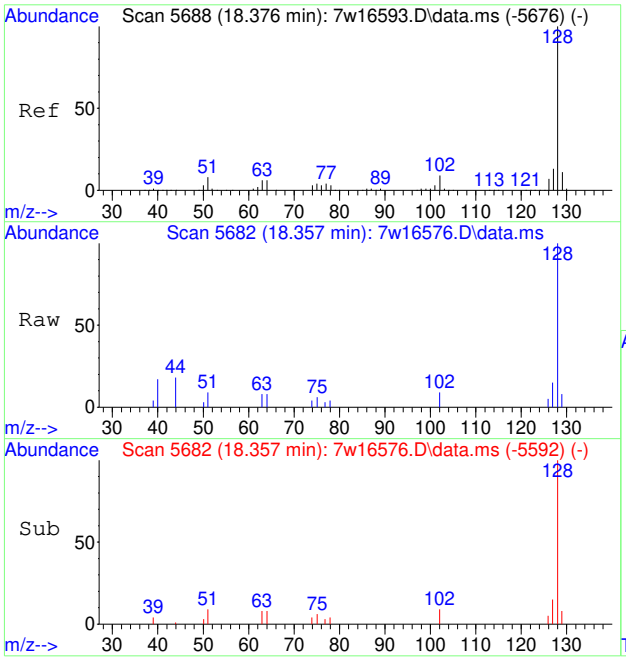


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.03 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:180 Resp: 1219

Ion	Ratio	Lower	Upper
180	100		
182	88.5	66.8	124.0
145	31.4	23.1	42.9

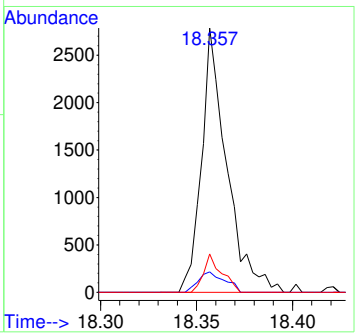




#108
NAPHTHALENE
Concen: 0.03 PPBV
RT: 18.357 min Scan# 5682
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:128 Resp: 2545

Ion	Ratio	Lower	Upper
128	100		
129	8.1	7.3	13.7
127	10.4	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16576.D
Injection Time: 08/07/25 04:00

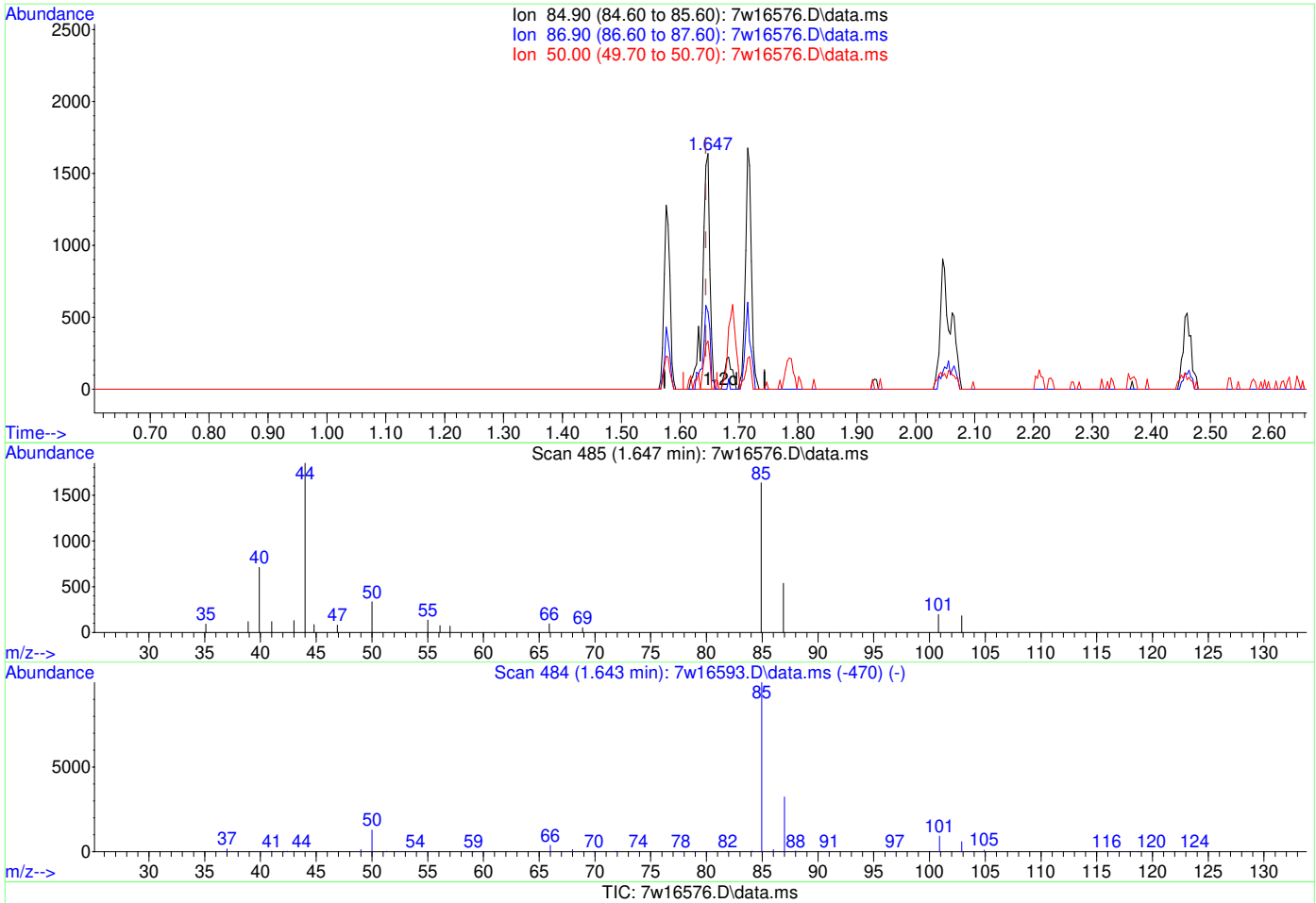
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.04PPBV

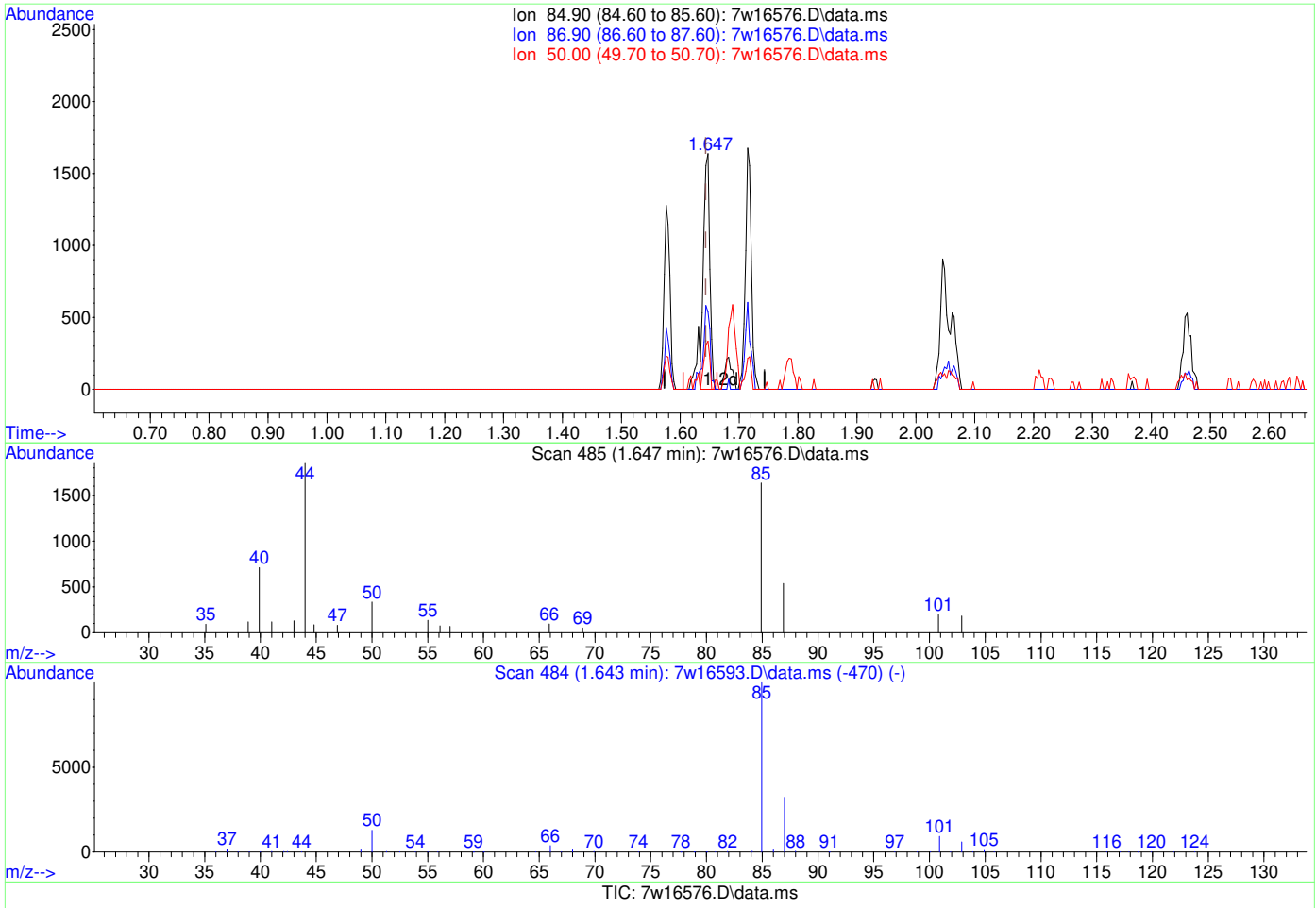
response 1388

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.65
50.00	17.30	23.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.03PPBV m

response 1176

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	40.90
50.00	17.30	27.64#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	113084	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	573427	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	530262	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	113084	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	422829	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	1638	0.11	PPBV		98
3) FREON 152A	1.608	65	909	0.13	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	372	0.12	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	1574	0.10	PPBV		76
6) DICHLORODIFLUOROMETHANE	1.647	85	3122m	0.09	PPBV		
7) PROPYLENE	1.627	41	1060	0.12	PPBV		84
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	2846	0.11	PPBV	#	86
9) FREON 114	1.717	85	3009	0.10	PPBV		85
10) CHLOROMETHANE	1.689	52	465	0.12	PPBV		93
11) VINYL CHLORIDE	1.746	62	1526	0.11	PPBV		97
12) 1,3-BUTADIENE	1.785	54	1299	0.12	PPBV		88
13) N-BUTANE	1.801	43	2465	0.13	PPBV	#	49
14) BROMOMETHANE	1.859	94	1194	0.11	PPBV		98
15) CHLOROETHANE	1.907	64	800	0.11	PPBV		95
16) DICHLOROFLUOROMETHANE	1.933	67	2916	0.11	PPBV		92
17) ACETONITRILE	2.000	41	1673	0.14	PPBV	#	91
18) ACROLEIN	2.036	56	823	0.13	PPBV		86
19) FREON 123	2.049	83	2970	0.11	PPBV		96
20) FREON 123A	2.065	117	1678	0.10	PPBV	#	33
21) TRICHLOROFLUOROMETHANE	2.129	101	3103	0.10	PPBV		96
24) PENTANE	2.242	42	1687	0.13	PPBV	#	90
25) IODOMETHANE	2.299	142	3122	0.11	PPBV		92
26) 1,1-DICHLOROETHYLENE	2.328	96	1351	0.12	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	3643	0.11	PPBV	#	75
29) BROMOETHENE	2.007	106	1160	0.10	PPBV		93
31) METHYLENE CHLORIDE	2.364	84	1574	0.14	PPBV	#	76
32) 3-CHLOROPROPENE	2.406	76	631	0.10	PPBV	#	54
33) FREON 113	2.460	151	1876	0.10	PPBV		81
34) TRANS-1,2-DICHLOROETHENE	2.685	96	1480	0.12	PPBV	#	73
35) TERTIARY BUTYL ALCOHOL	2.348	59	3930	0.12	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.798	73	4162	0.11	PPBV	#	71
37) TETRAHYDROFURAN	3.496	72	660	0.11	PPBV		88
38) HEXANE	3.238	57	2906	0.12	PPBV		87
39) VINYL ACETATE	2.824	86	343	0.10	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.759	63	2595	0.10	PPBV		96
41) METHYL ETHYL KETONE	2.933	72	844	0.13	PPBV	#	85
42) CIS-1,2-DICHLOROETHENE	3.113	96	1430	0.11	PPBV		80
43) DIISOPROPYL ETHER	3.248	59	742	0.11	PPBV		95
44) ETHYL ACETATE	3.258	61	462	0.09	PPBV		87
45) METHYL ACRYLATE	3.241	55	3222	0.11	PPBV	#	96
46) CHLOROFORM	3.258	83	2745	0.10	PPBV	#	90
47) 2,4-DIMETHYLPENTANE	3.740	57	3064	0.11	PPBV		95
48) 1,1,1-TRICHLOROETHANE	3.820	97	2869	0.10	PPBV		93
49) CARBON TETRACHLORIDE	4.235	117	2721	0.09	PPBV		97
50) 1,2-DICHLOROETHANE	3.663	62	2043	0.10	PPBV		96
51) BENZENE	4.126	78	4491	0.12	PPBV		95
53) CYCLOHEXANE	4.328	84	1883	0.11	PPBV	#	65
54) 2,3-DIMETHYLPENTANE	4.582	71	954	0.11	PPBV	#	54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

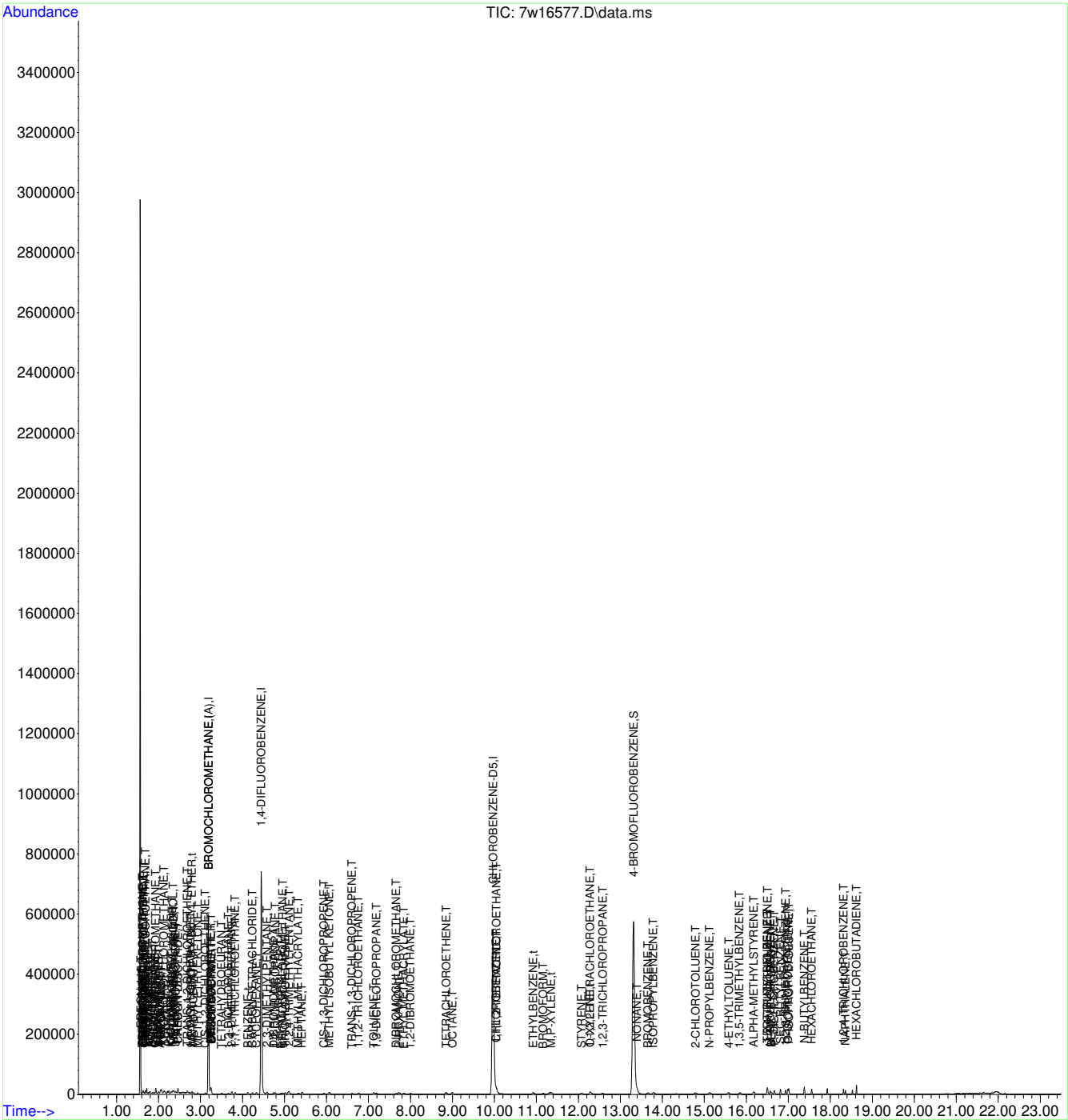
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55)	TRICHLOROETHENE	5.016	95	1997	0.11	PPBV		83
56)	1,2-DICHLOROPROPANE	4.785	63	1753	0.11	PPBV		85
57)	DIBROMOMETHANE	4.746	174	1723	0.11	PPBV		90
58)	ETHYL ACRYLATE	4.910	55	3841	0.10	PPBV	#	93
59)	BROMODICHLOROMETHANE	4.958	83	2818	0.09	PPBV		96
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	9397	0.12	PPBV	#	91
62)	HEPTANE	5.415	43	2892	0.11	PPBV		85
63)	METHYL METHACRYLATE	5.322	69	1510	0.10	PPBV		78
64)	METHYL ISOBUTYL KETONE	6.061	58	2096	0.14	PPBV	#	87
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	2385	0.09	PPBV		97
66)	TOLUENE	7.129	91	5187	0.11	PPBV		95
67)	1,3-DICHLOROPROPANE	7.187	76	2497	0.10	PPBV	#	93
68)	TRANS-1,3-DICHLOROPROPENE	6.605	75	1972	0.08	PPBV		93
69)	1,1,2-TRICHLOROETHANE	6.759	83	1417	0.10	PPBV		93
70)	2-HEXANONE	7.714	58	3348	0.17	PPBV	#	87
71)	ETHYL METHACRYLATE	7.843	69	2476	0.10	PPBV	#	74
72)	TETRACHLOROETHENE	8.849	164	1845	0.11	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.663	129	2664	0.09	PPBV		97
74)	1,2-DIBROMOETHANE	7.991	107	2697	0.11	PPBV	#	94
75)	OCTANE	9.000	43	3873	0.11	PPBV		88
77)	1,1,1,2-TETRACHLOROETHANE	10.045	131	2123	0.10	PPBV		97
78)	CHLOROBENZENE	10.035	112	4090	0.11	PPBV	#	79
79)	ETHYLBENZENE	10.923	91	6930	0.11	PPBV		100
80)	M,P-XYLENE	11.347	91	10889	0.22	PPBV	#	87
81)	O-XYLENE	12.277	91	5536	0.11	PPBV	#	76
82)	STYRENE	12.071	104	3856	0.10	PPBV	#	49
83)	NONANE	13.389	43	4193	0.11	PPBV		81
84)	BROMOFORM	11.158	173	2131	0.08	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.277	83	3686	0.10	PPBV	#	95
86)	1,2,3-TRICHLOROPROPANE	12.579	75	2860	0.10	PPBV	#	99
88)	ISOPROPYLBENZENE	13.778	120	2075	0.11	PPBV		81
89)	BROMOBENZENE	13.649	77	4058	0.11	PPBV	#	70
90)	2-CHLOROTOLUENE	14.788	126	1780	0.10	PPBV	#	61
91)	N-PROPYLBENZENE	15.122	120	1971	0.10	PPBV		94
92)	4-ETHYLTOLUENE	15.582	105	7463	0.10	PPBV	#	96
93)	1,3,5-TRIMETHYLBENZENE	15.829	105	6383	0.10	PPBV	#	34
94)	ALPHA-METHYLSTYRENE	16.170	118	2929	0.09	PPBV		96
95)	TERT-BUTYLBENZENE	16.495	134	1569	0.10	PPBV		94
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	6125	0.10	PPBV		95
97)	BENZYL CHLORIDE	16.598	91	3788	0.07	PPBV	#	87
98)	M-DICHLOROBENZENE	16.566	146	4159	0.10	PPBV		96
99)	P-DICHLOROBENZENE	16.662	146	4312	0.10	PPBV		95
100)	O-DICHLOROBENZENE	16.987	146	4193	0.11	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	2000	0.11	PPBV		89
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	6206	0.10	PPBV		94
103)	P-ISOPROPYLTOLUENE	17.009	134	2027	0.10	PPBV		86
104)	N-BUTYLBENZENE	17.376	134	1794	0.09	PPBV		70
105)	HEXACHLOROETHANE	17.556	117	2143	0.09	PPBV		99
106)	HEXACHLOROBUTADIENE	18.624	225	3071	0.12	PPBV		96
107)	1,2,4-TRICHLOROBENZENE	18.312	180	2908	0.08	PPBV		97
108)	NAPHTHALENE	18.360	128	6418	0.08	PPBV		99

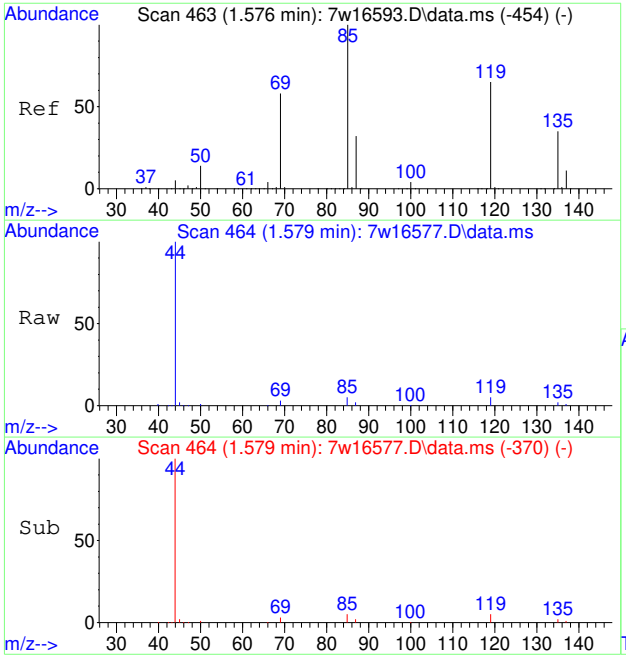
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

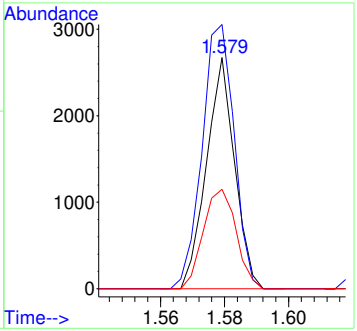


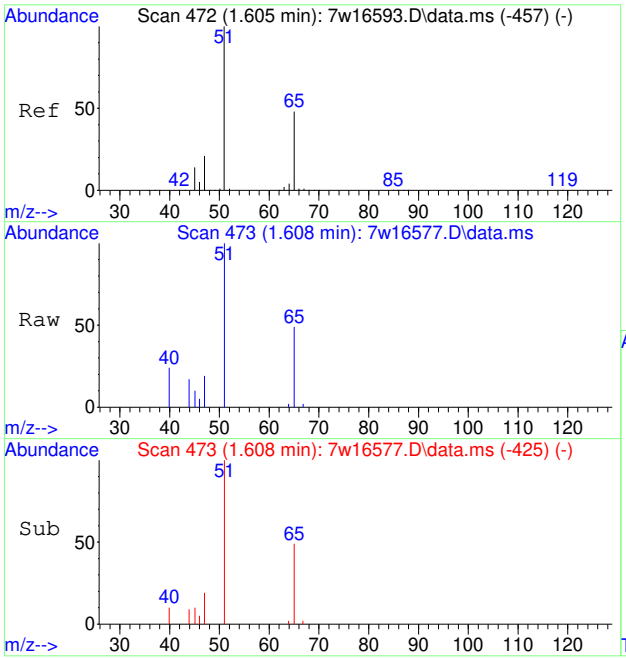


#2
FREON 115
Concen: 0.11 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:119 Resp: 1638

Ion	Ratio	Lower	Upper
119	100		
85	130.1	90.9	168.7
135	50.1	38.2	71.0

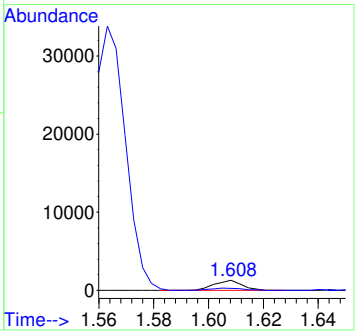


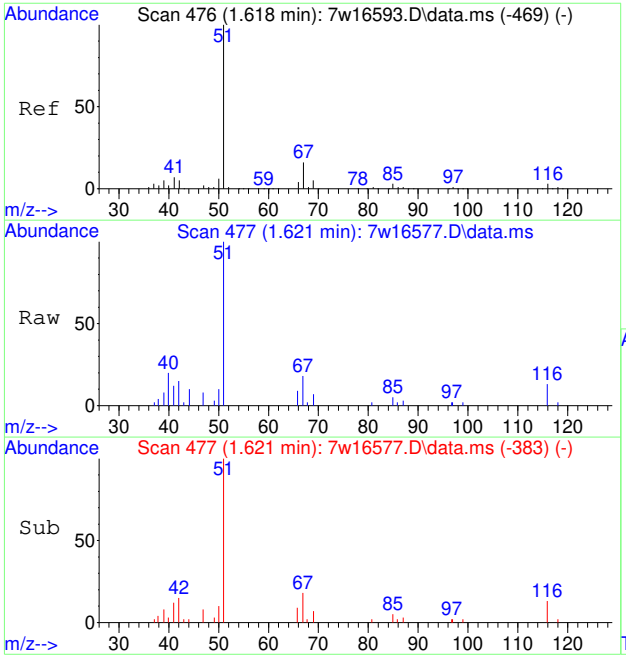


#3
FREON 152A
Concen: 0.13 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 909

Ion	Ratio	Lower	Upper
65	100		
45	25.6	20.6	38.4

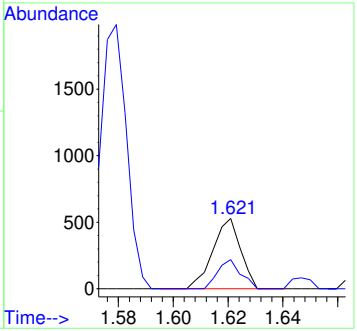


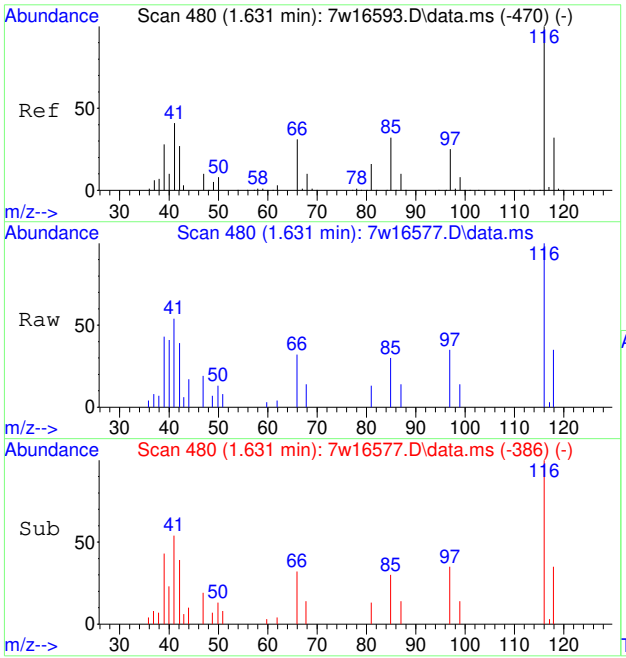


#4
CHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 372

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

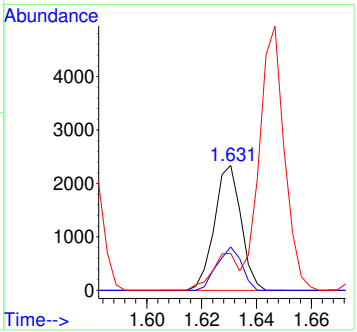


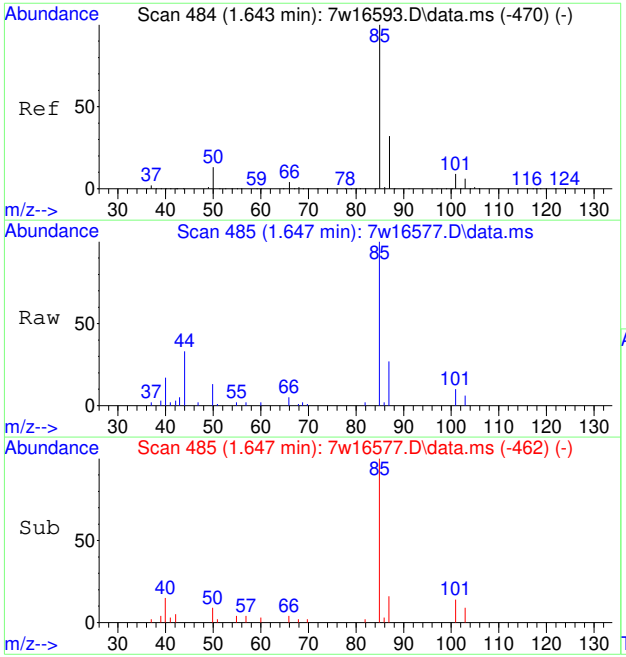


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:116 Resp: 1574

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.7	42.1
85	227.6	194.7	361.7

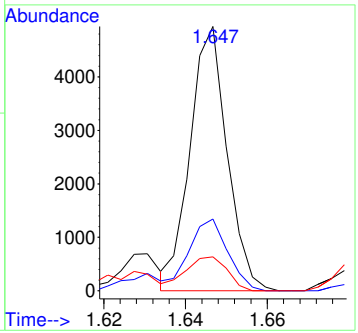


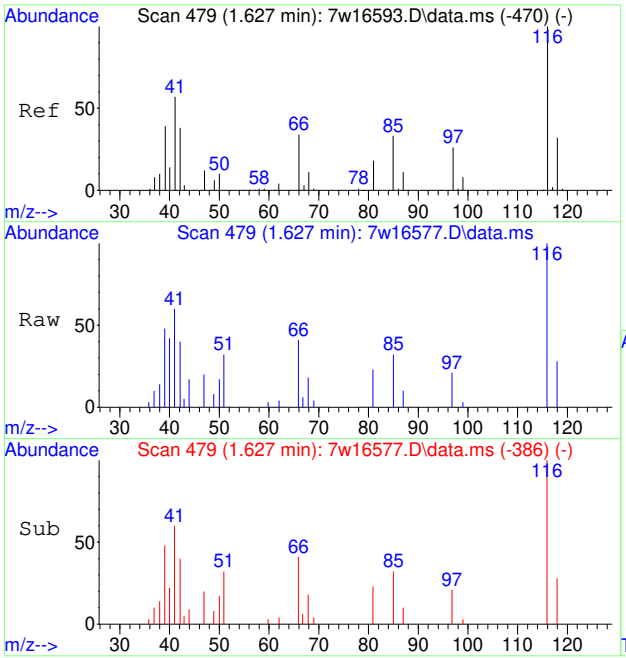


#6
DICHLORODIFLUOROMETHANE
Concen: 0.09 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3122

Ion	Ratio	Lower	Upper
85	100		
87	34.8	23.1	42.9
50	24.8	12.1	22.5#

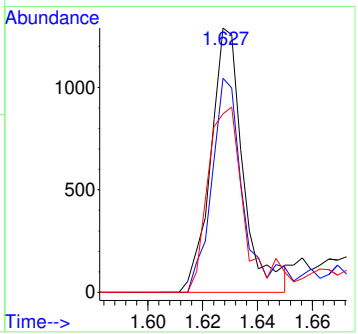


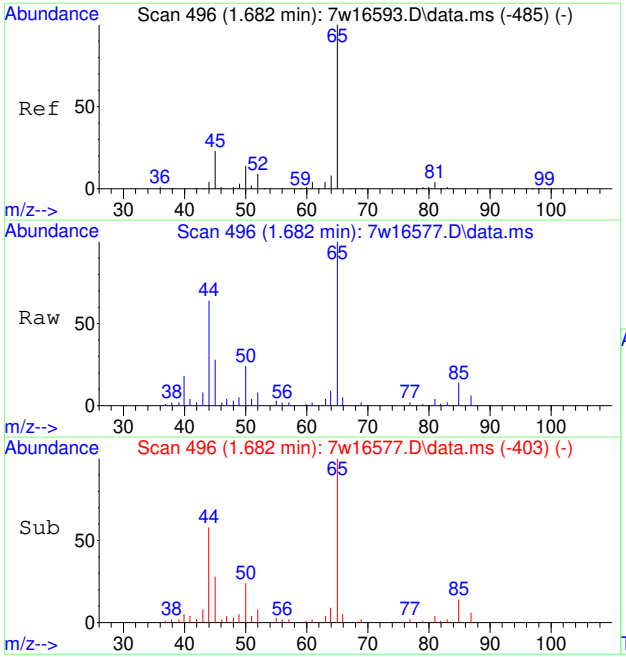


#7
PROPYLENE
Concen: 0.12 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1060

Ion	Ratio	Lower	Upper
41	100		
39	84.6	51.0	94.8
42	80.7	46.6	86.6

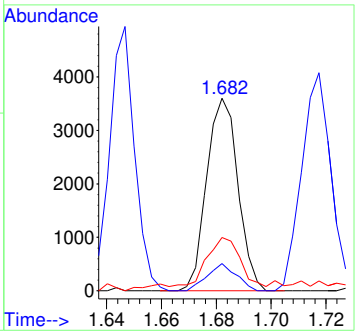


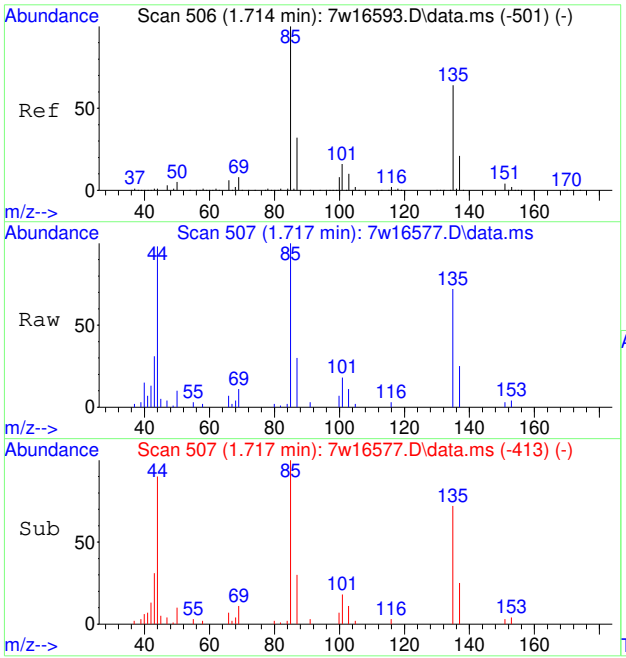


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.11 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 2846

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	35.0	17.0	31.6#

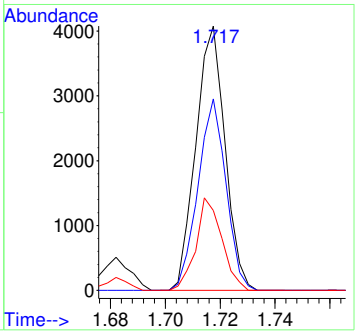


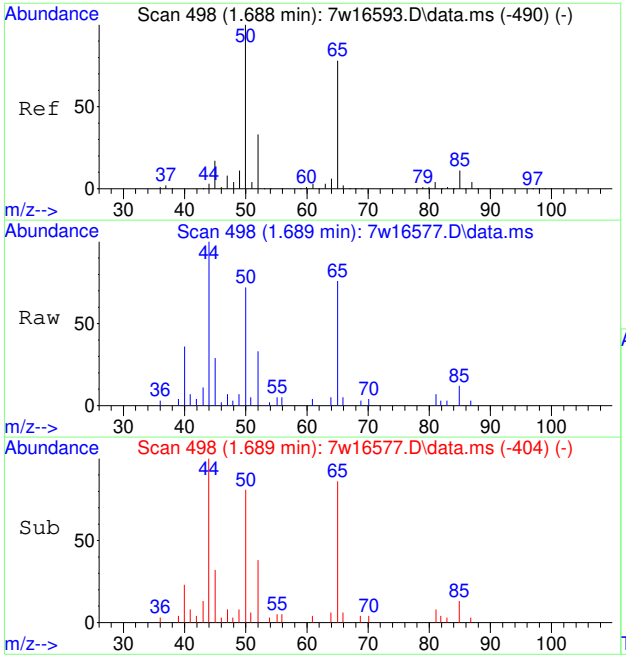


#9
FREON 114
Concen: 0.10 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3009

Ion	Ratio	Lower	Upper
85	100		
135	69.5	61.3	113.9
87	31.1	23.2	43.0

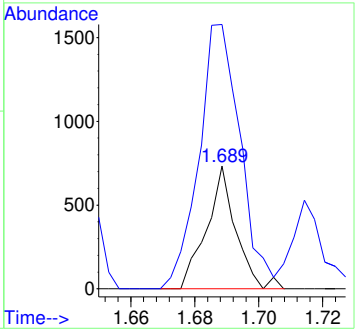


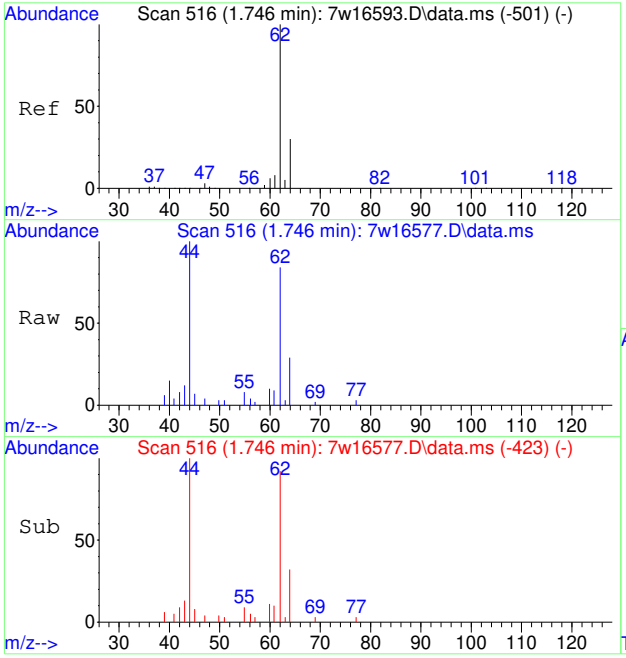


#10
CHLOROMETHANE
Concen: 0.12 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 52 Resp: 465

Ion	Ratio	Lower	Upper
52	100		
50	309.9	227.6	422.6

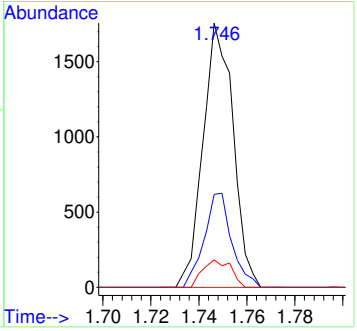


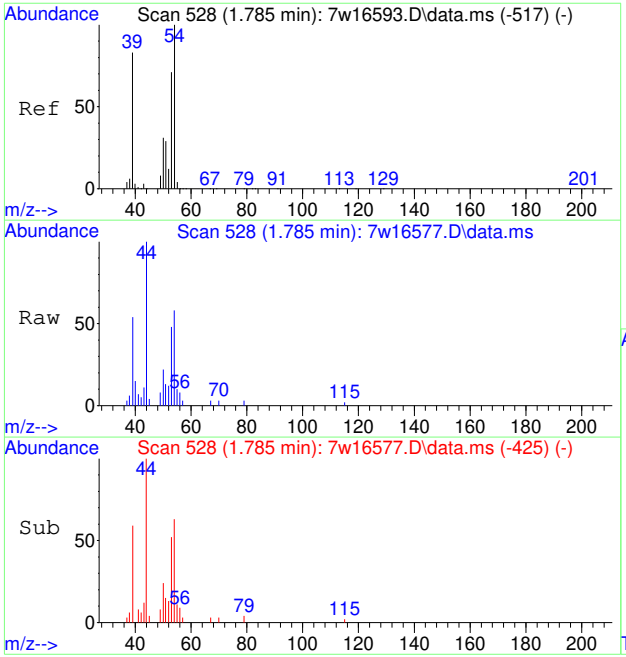


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 1526

Ion	Ratio	Lower	Upper
62	100		
64	32.6	21.6	40.2
61	9.8	5.7	10.7

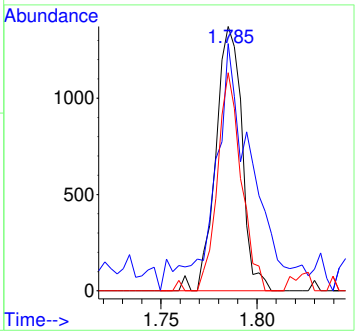


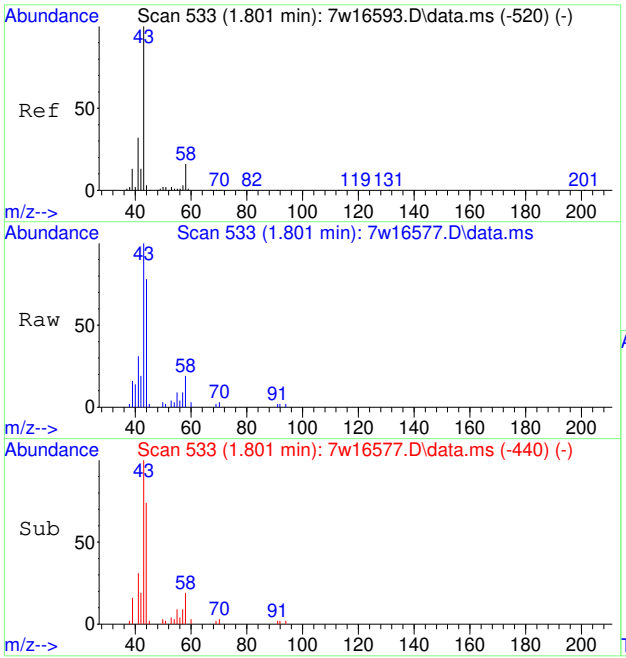


#12
1,3-BUTADIENE
Concen: 0.12 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 54 Resp: 1299

Ion	Ratio	Lower	Upper
54	100		
39	136.5	125.6	185.6
53	75.2	40.7	100.7

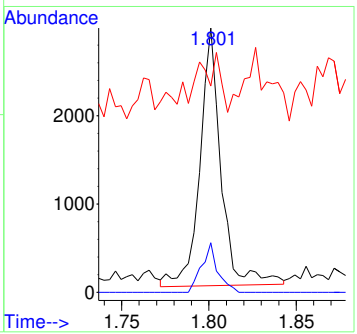


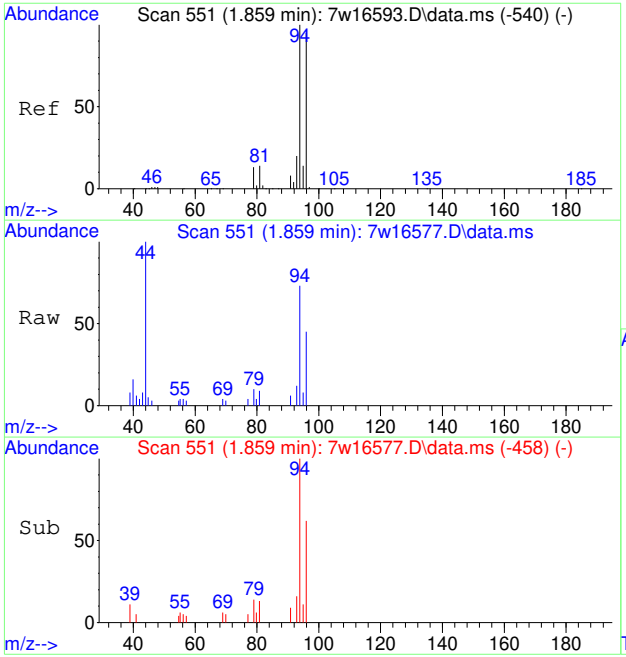


#13
N-BUTANE
Concen: 0.13 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2465

Ion	Ratio	Lower	Upper
43	100		
58	14.6	10.4	19.4
44	79.0	3.0	5.6#

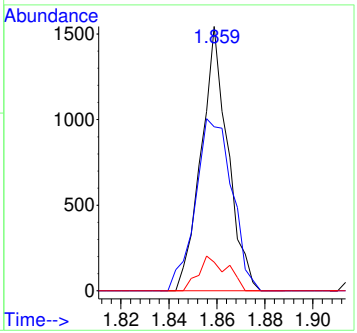


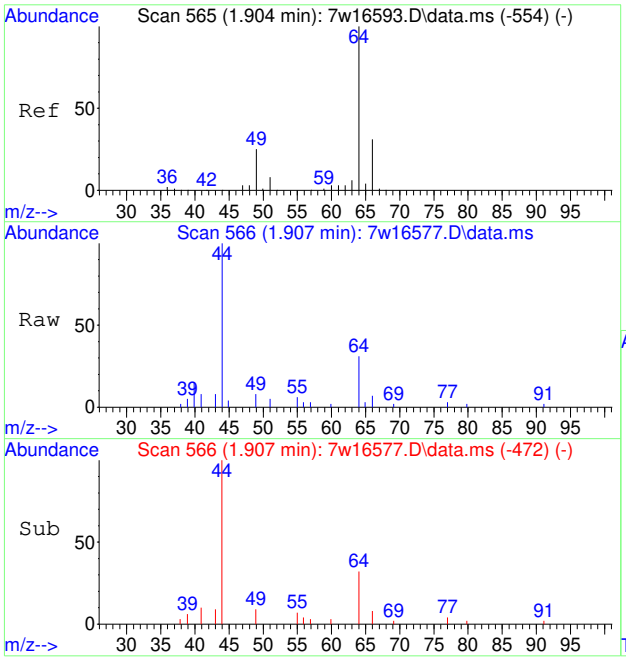


#14
BROMOMETHANE
Concen: 0.11 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 94 Resp: 1194

Ion	Ratio	Lower	Upper
94	100		
96	89.2	63.6	118.0
95	14.1	10.0	18.6

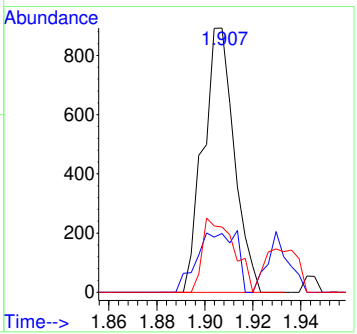


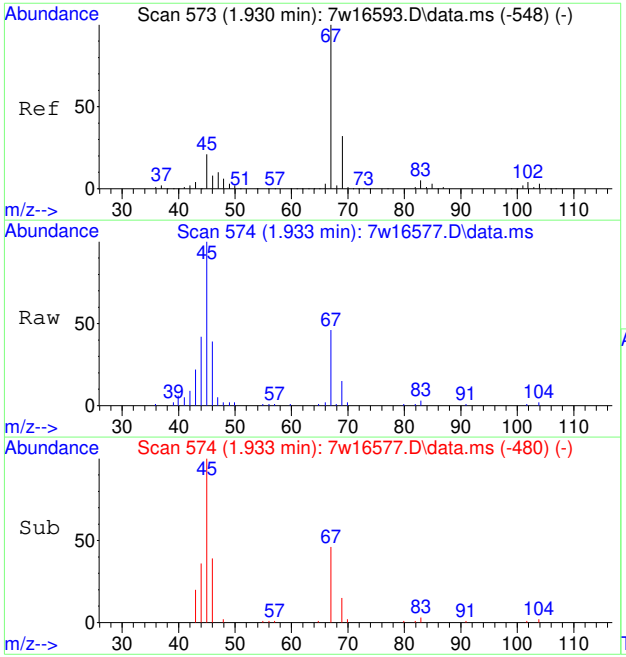


#15
CHLOROETHANE
Concen: 0.11 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 64 Resp: 800

Ion	Ratio	Lower	Upper
64	100		
66	29.4	23.0	42.6
49	28.2	21.5	39.9

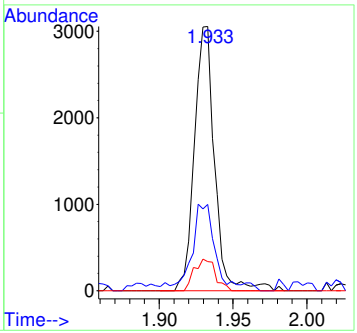


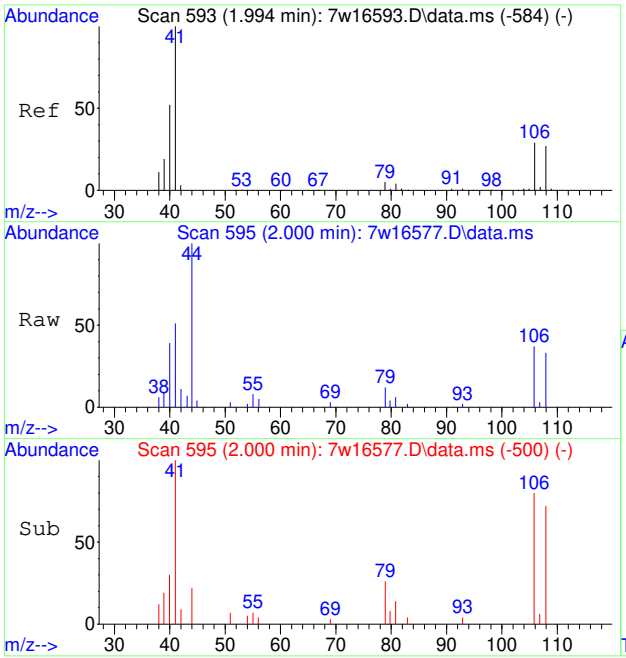


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 2916

Ion	Ratio	Lower	Upper
67	100		
69	39.0	23.2	43.0
47	12.6	9.6	17.8

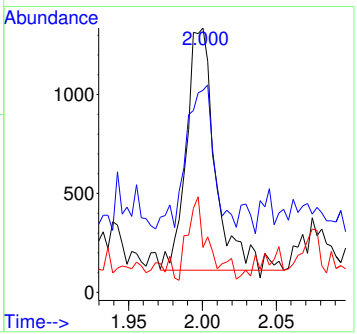


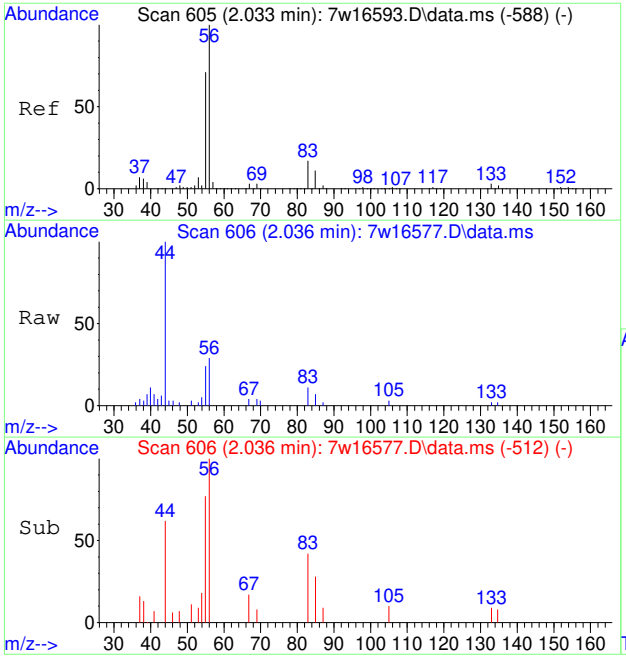


#17
ACETONITRILE
Concen: 0.14 PPBV
RT: 2.000 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1673

Ion	Ratio	Lower	Upper
41	100		
40	54.7	38.4	71.4
39	36.0	14.5	26.9#

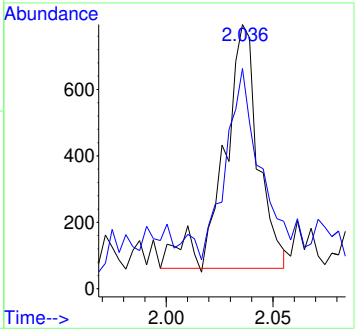


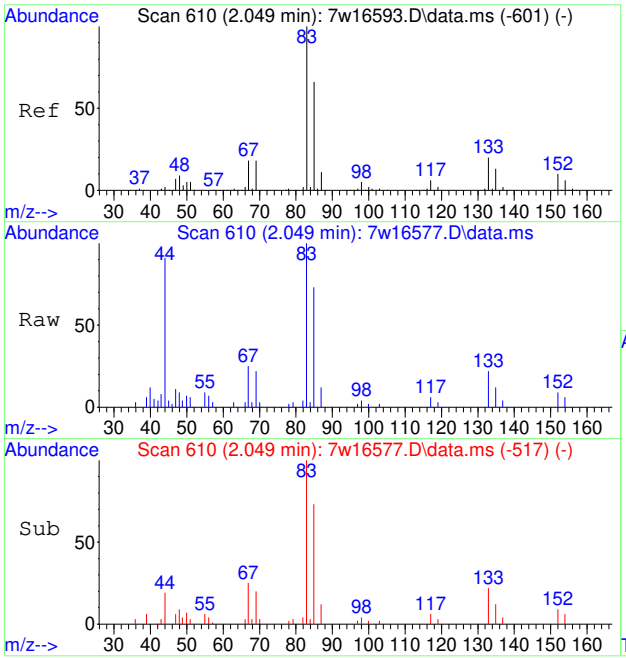


#18
ACROLEIN
Concen: 0.13 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 56 Resp: 823

Ion	Ratio	Lower	Upper
56	100		
55	85.2	51.2	95.2

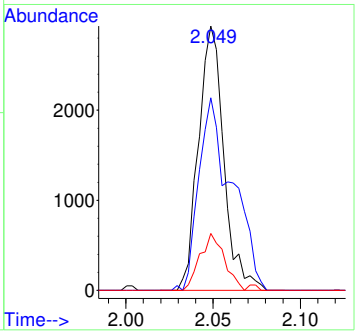


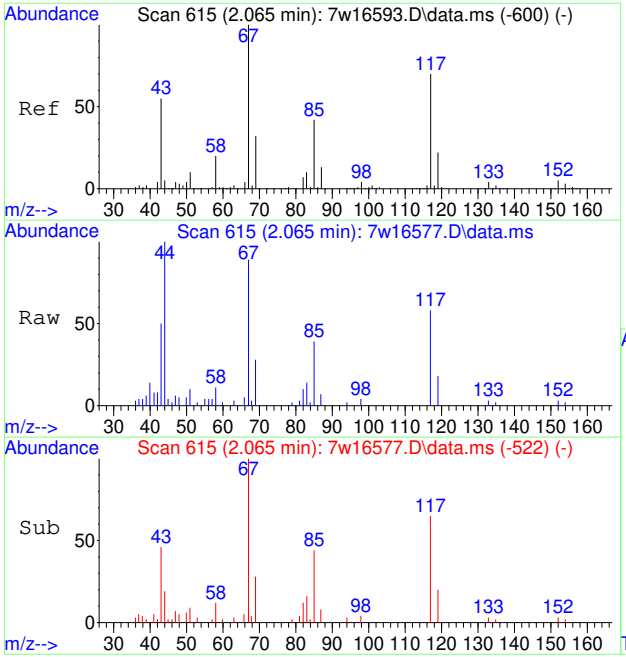


#19
FREON 123
Concen: 0.11 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2970

Ion	Ratio	Lower	Upper
83	100		
85	95.5	65.7	121.9
133	21.5	19.9	36.9

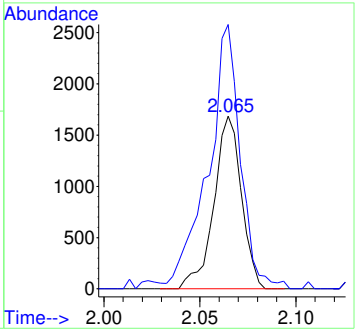


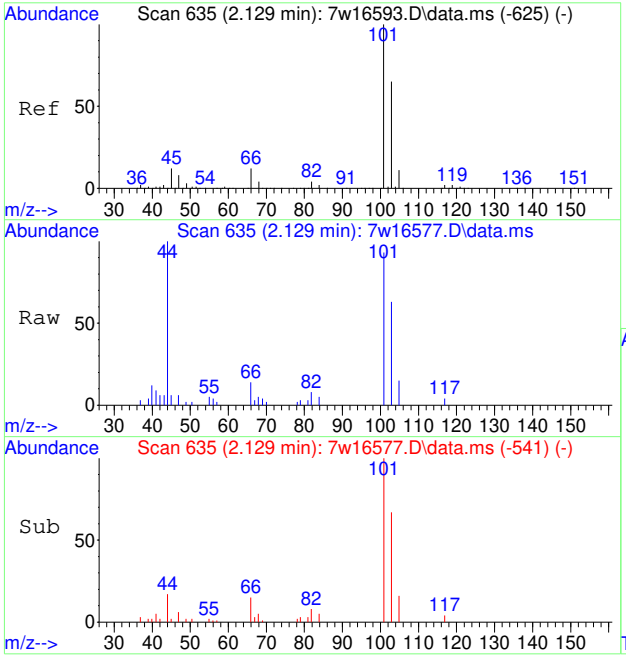


#20
FREON 123A
Concen: 0.10 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 1678

Ion	Ratio	Lower	Upper
117	100		
67	184.8	78.8	146.4#

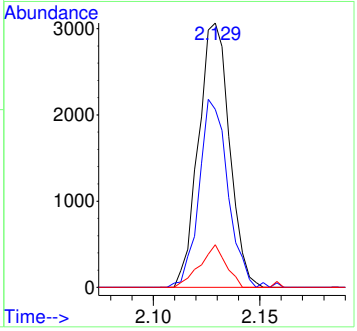


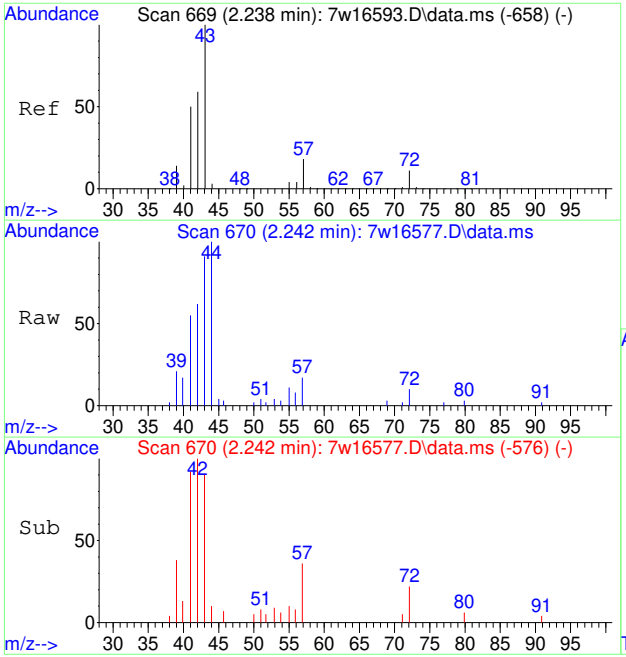


#21
TRICHLOROFLUOROMETHANE
Concen: 0.10 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:101 Resp: 3103

Ion	Ratio	Lower	Upper
101	100		
103	66.1	44.3	82.3
105	13.6	7.3	13.7

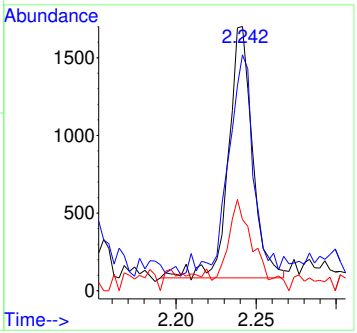


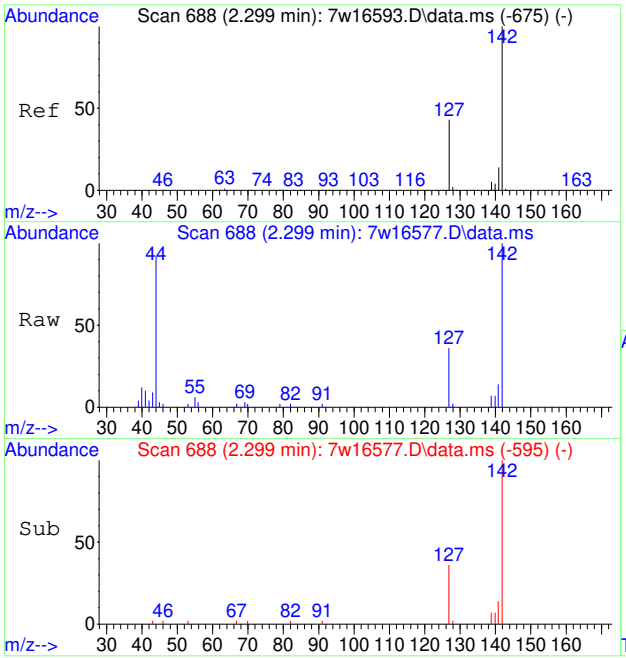


#24
PENTANE
Concen: 0.13 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 42 Resp: 1687

Ion	Ratio	Lower	Upper
42	100		
41	96.6	69.2	128.6
57	46.8	18.6	34.6#

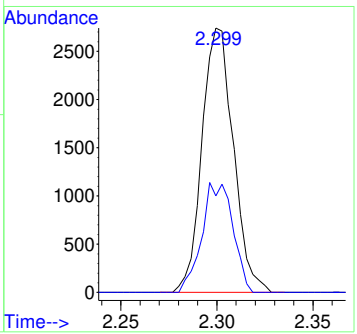


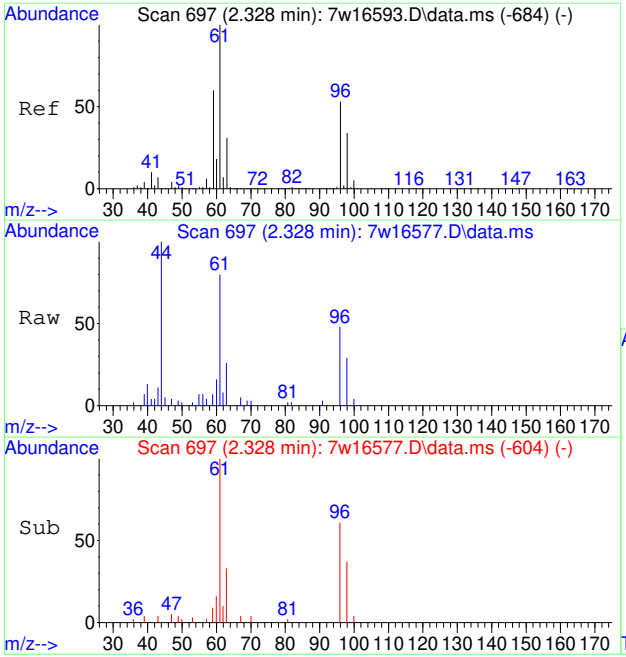


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:142 Resp: 3122

Ion	Ratio	Lower	Upper
142	100		
127	40.9	32.1	59.7

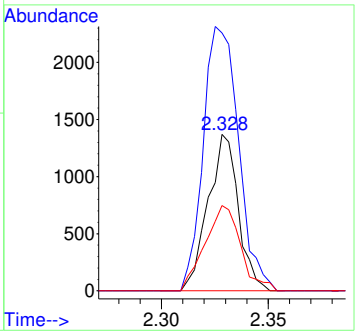


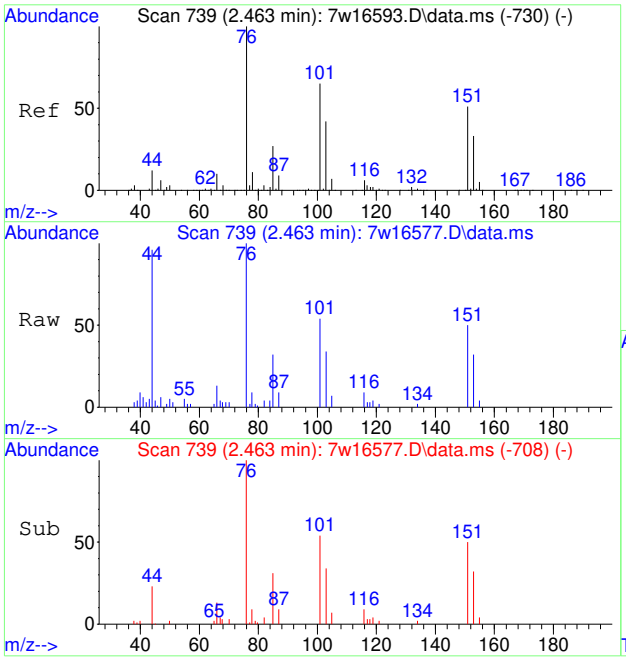


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1351

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	64.3	33.2	61.7#

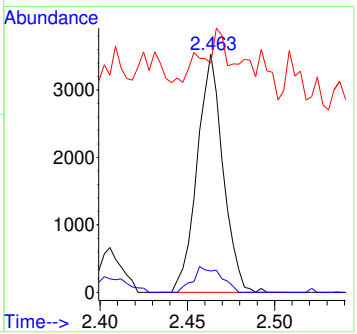


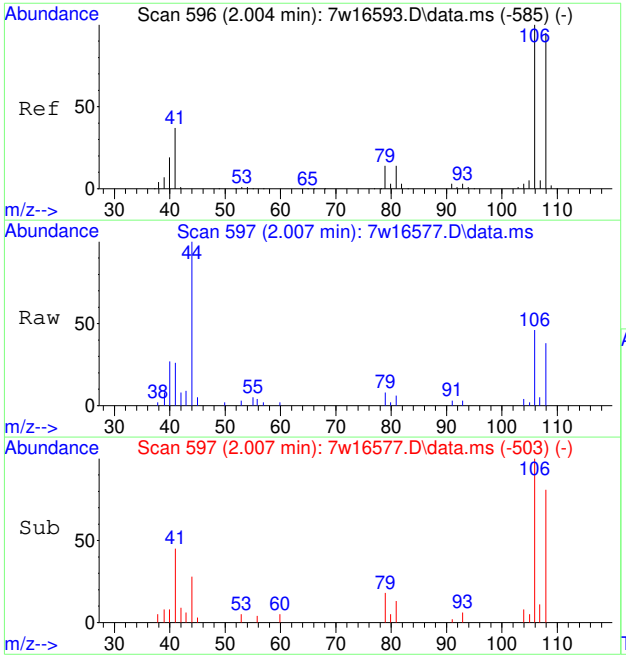


#27
CARBON DISULFIDE
Concen: 0.11 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 3643

Ion	Ratio	Lower	Upper
76	100		
78	11.6	8.3	15.3
44	36.6	13.0	24.1#

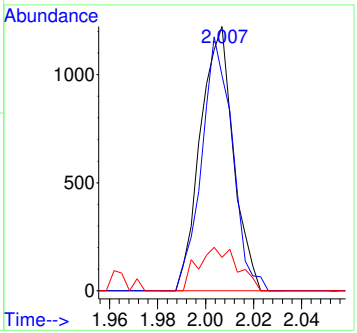


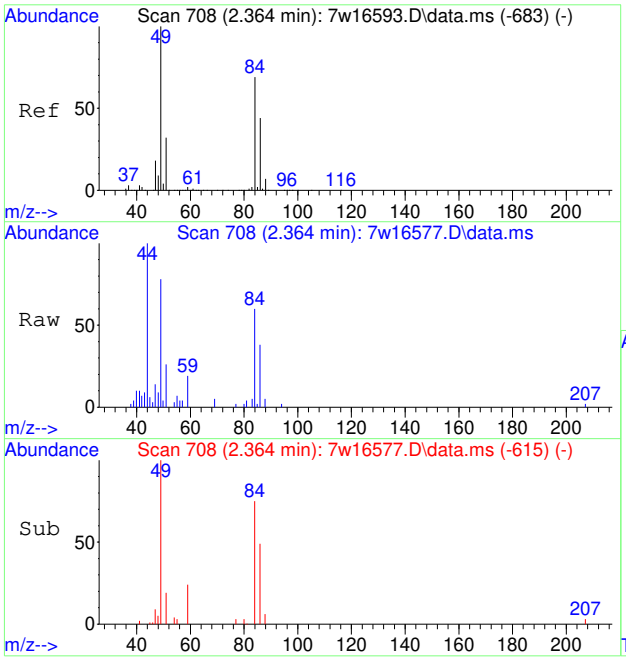


#29
BROMOETHENE
Concen: 0.10 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:106 Resp: 1160

Ion	Ratio	Lower	Upper
106	100		
108	90.0	68.3	126.8
81	20.0	14.7	27.3

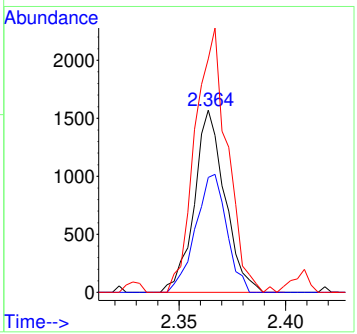


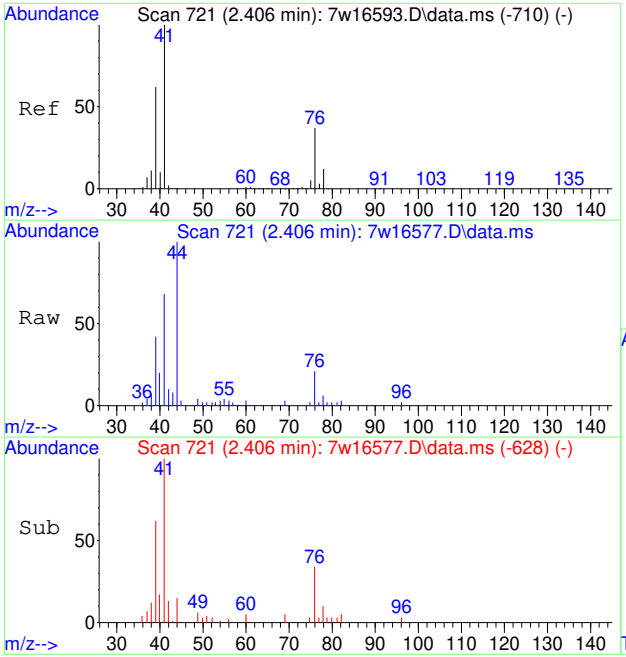


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1574

Ion	Ratio	Lower	Upper
84	100		
86	65.7	44.9	83.5
49	152.7	79.7	148.1#

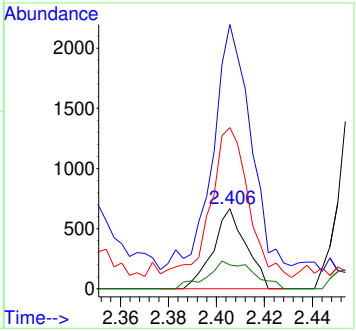


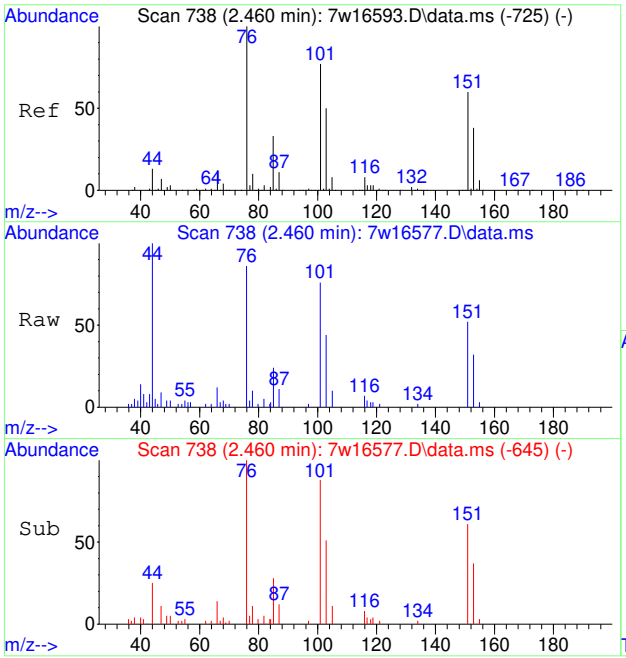


#32
3-CHLOROPROPENE
Concen: 0.10 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 631

Ion	Ratio	Lower	Upper
76	100		
41	375.9	160.9	298.9#
39	221.1	150.7	279.9
78	48.3	22.7	42.1#

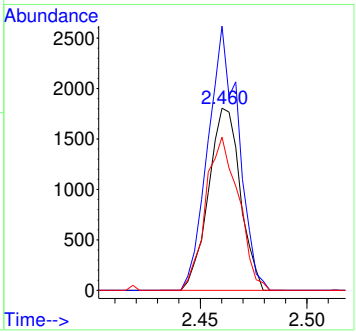


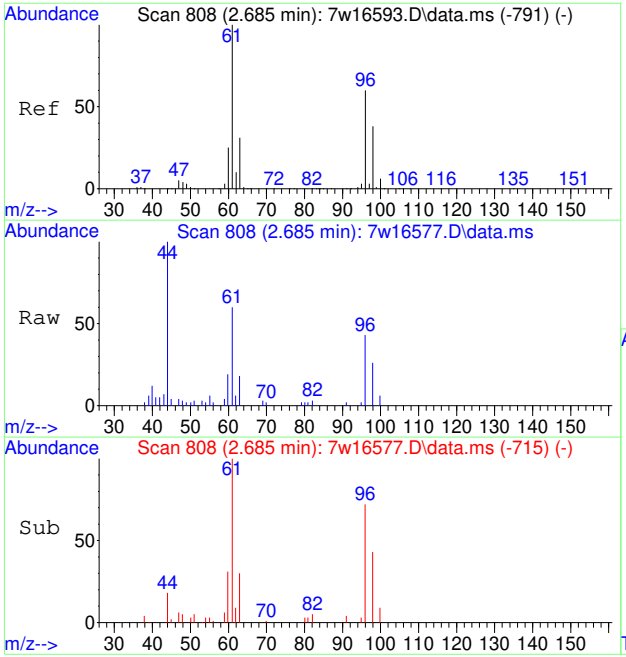


#33
FREON 113
Concen: 0.10 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:151 Resp: 1876

Ion	Ratio	Lower	Upper
151	100		
101	139.1	81.1	150.7
103	86.9	51.4	95.4

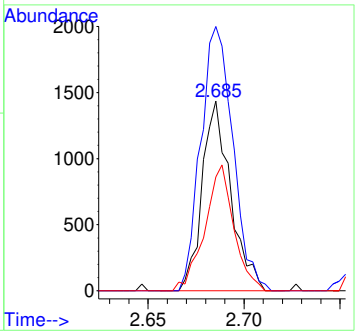


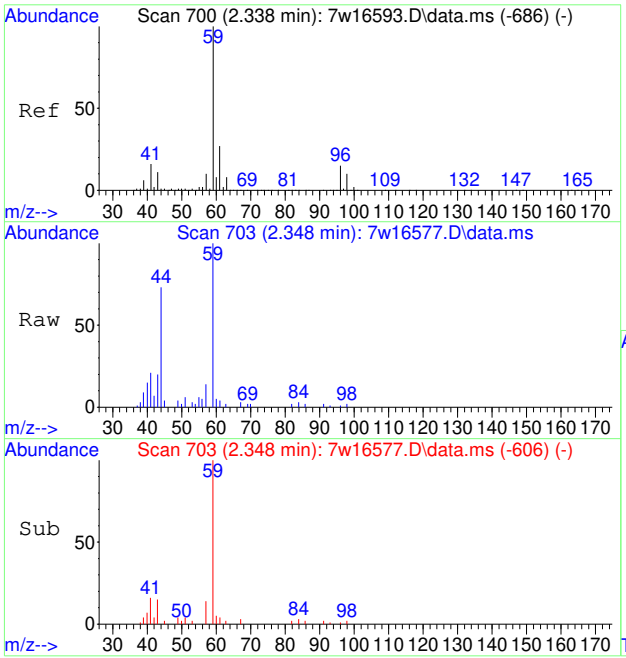


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.12 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1480

Ion	Ratio	Lower	Upper
96	100		
61	157.9	78.5	145.9#
98	67.7	46.5	86.3

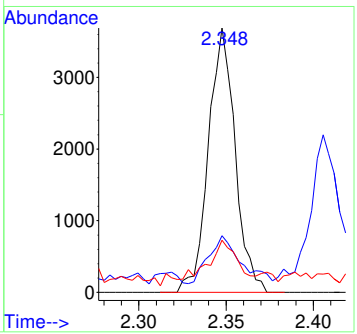


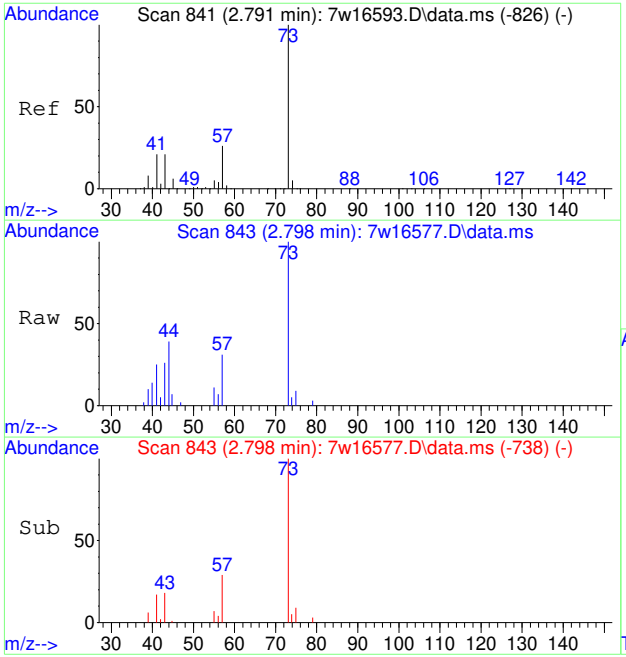


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.12 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 3930

Ion	Ratio	Lower	Upper
59	100		
41	20.7	15.3	28.5
43	26.0	12.3	22.9#

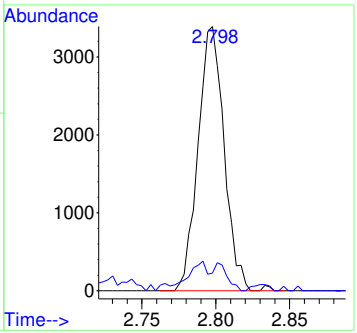


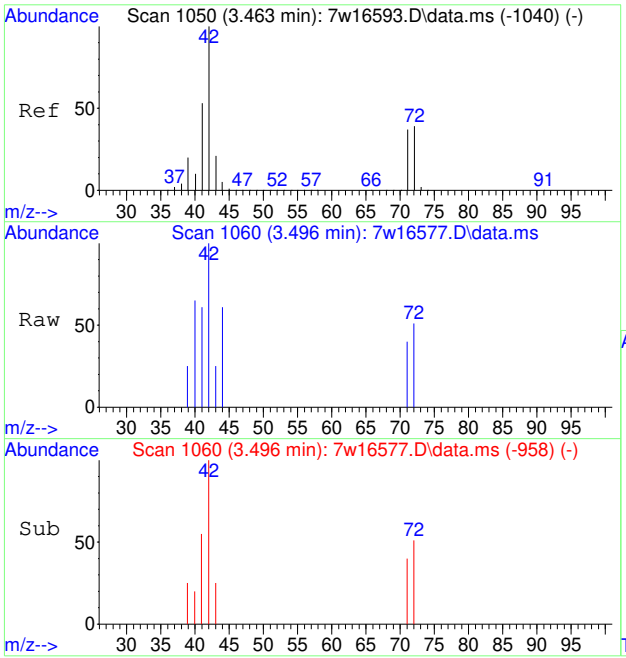


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.11 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 73 Resp: 4162

Ion	Ratio	Lower	Upper
73	100		
45	14.6	3.4	6.4#

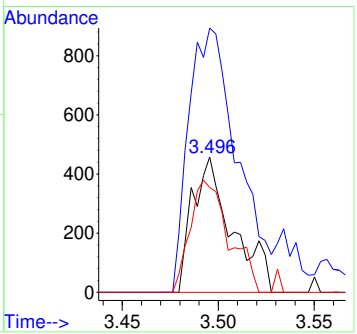


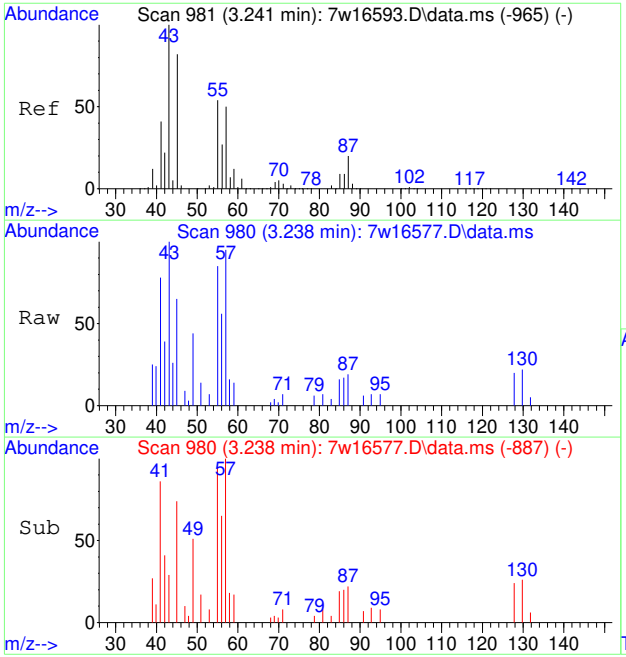


#37
TETRAHYDROFURAN
Concen: 0.11 PPBV
RT: 3.496 min Scan# 1060
Delta R.T. 0.029 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 660

Ion	Ratio	Lower	Upper
72	100		
42	239.2	153.0	284.2
71	81.4	62.7	116.5

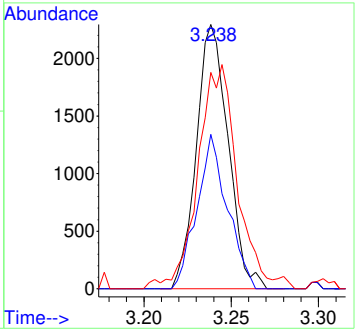


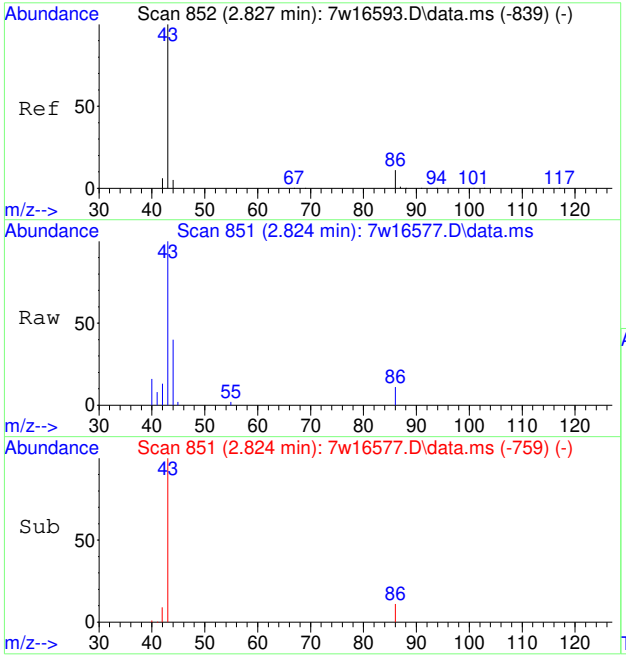


#38
HEXANE
Concen: 0.12 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 2906

Ion	Ratio	Lower	Upper
57	100		
56	55.8	37.3	69.3
41	105.2	86.7	161.1

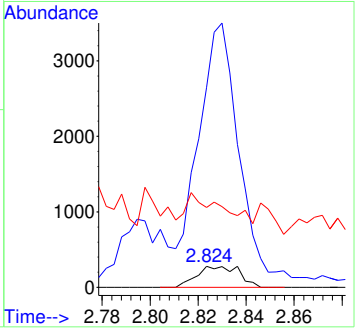


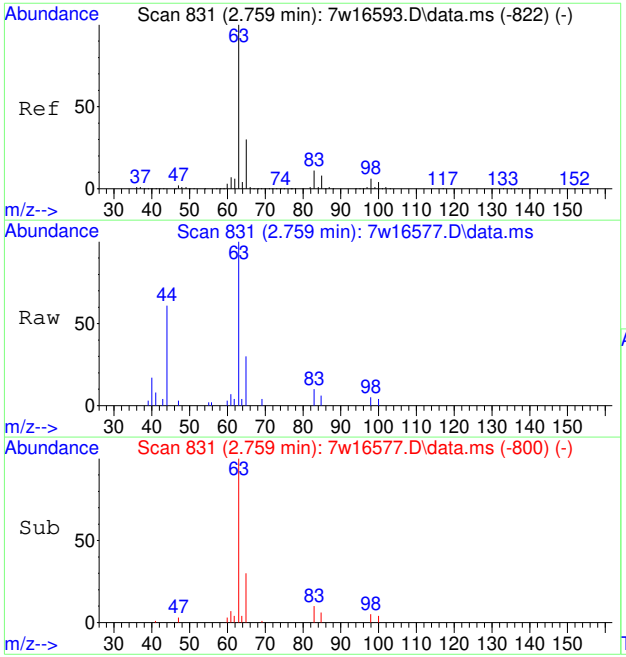


#39
VINYL ACETATE
Concen: 0.10 PPBV
RT: 2.824 min Scan# 851
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 86 Resp: 343

Ion	Ratio	Lower	Upper
86	100		
43	1525.9	667.9	1240.3#
44	241.7	32.7	60.7#

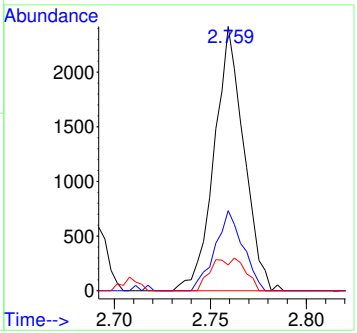


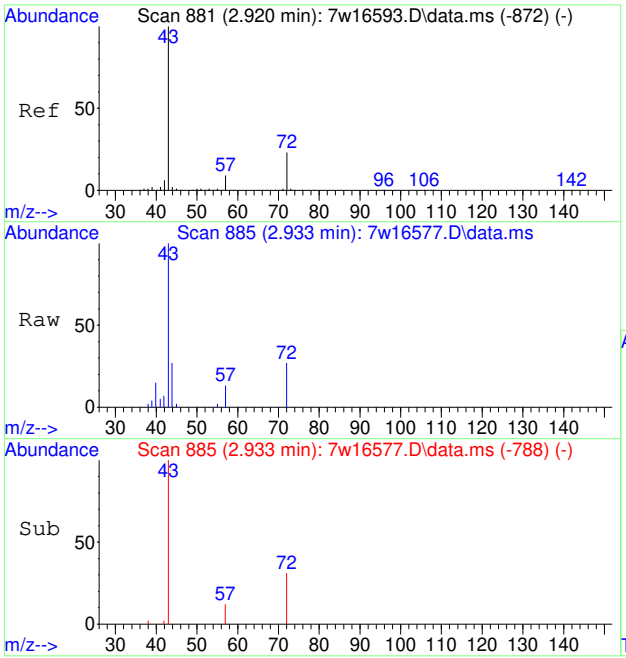


#40
1,1-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 2595

Ion	Ratio	Lower	Upper
63	100		
65	28.6	21.8	40.6
83	14.2	10.6	19.6

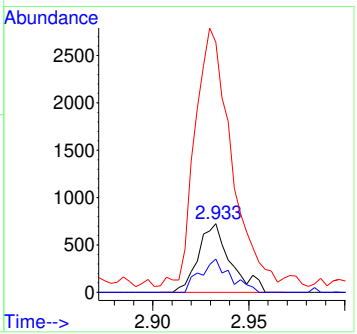


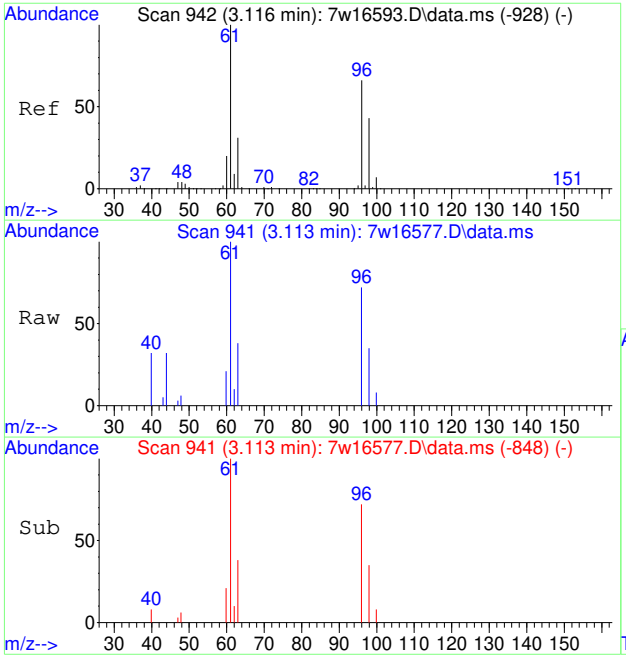


#41
METHYL ETHYL KETONE
Concen: 0.13 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 844

Ion	Ratio	Lower	Upper
72	100		
57	45.5	20.3	37.7#
43	437.0	282.8	525.2

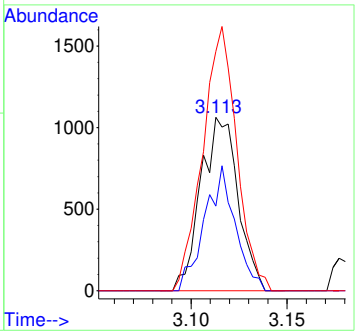


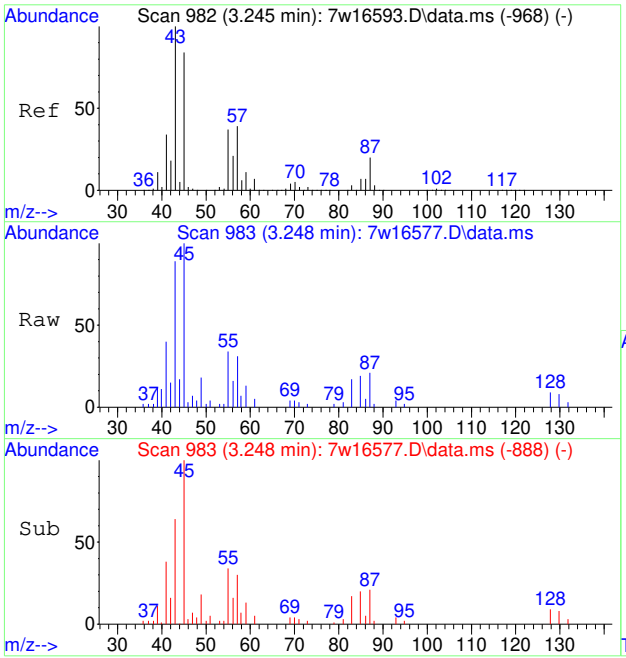


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.11 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1430

Ion	Ratio	Lower	Upper
96	100		
98	59.2	46.8	86.8
61	140.1	78.3	145.5

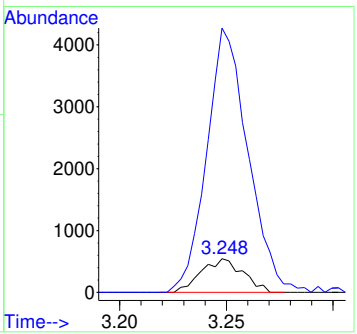


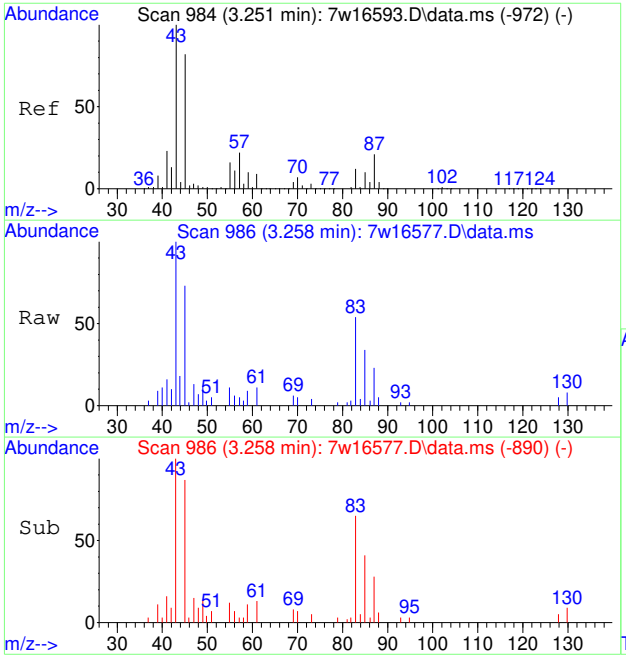


#43
DIISOPROPYL ETHER
Concen: 0.11 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 742

Ion	Ratio	Lower	Upper
59	100		
45	777.4	532.1	988.1

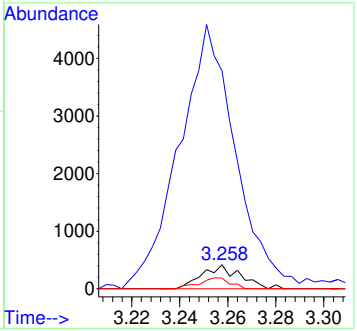


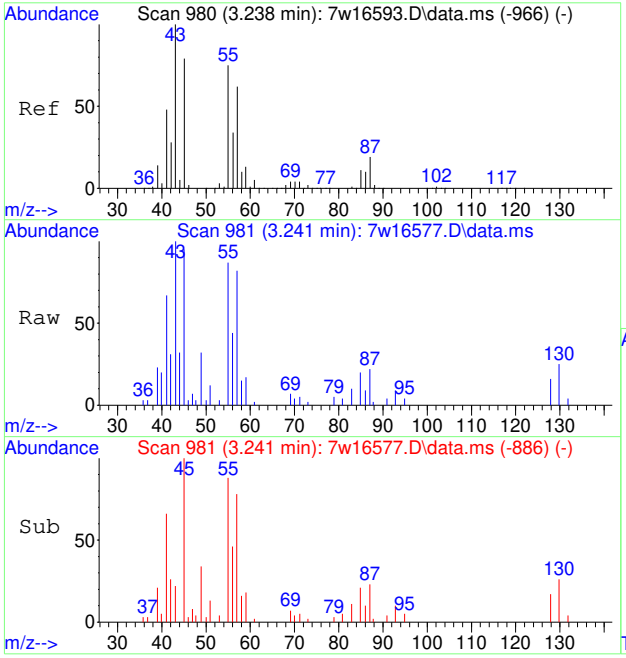


#44
ETHYL ACETATE
Concen: 0.09 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 61 Resp: 462

Ion	Ratio	Lower	Upper
61	100		
43	1690.7	1127.5	2093.9
88	36.8	36.2	67.2

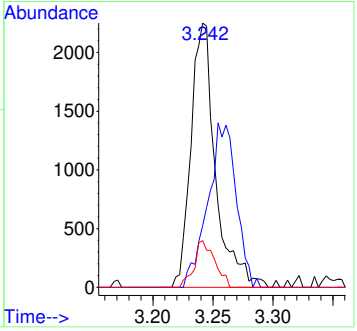


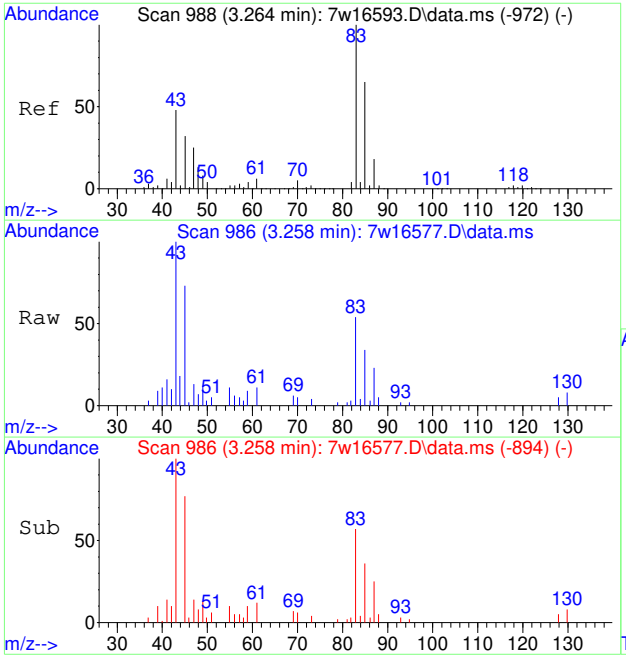


#45
METHYL ACRYLATE
Concen: 0.11 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3222

Ion	Ratio	Lower	Upper
55	100		
85	71.3	0.0	0.0#
58	14.6	9.2	17.0

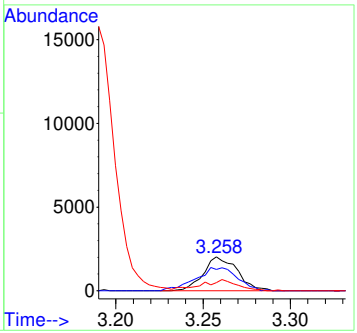


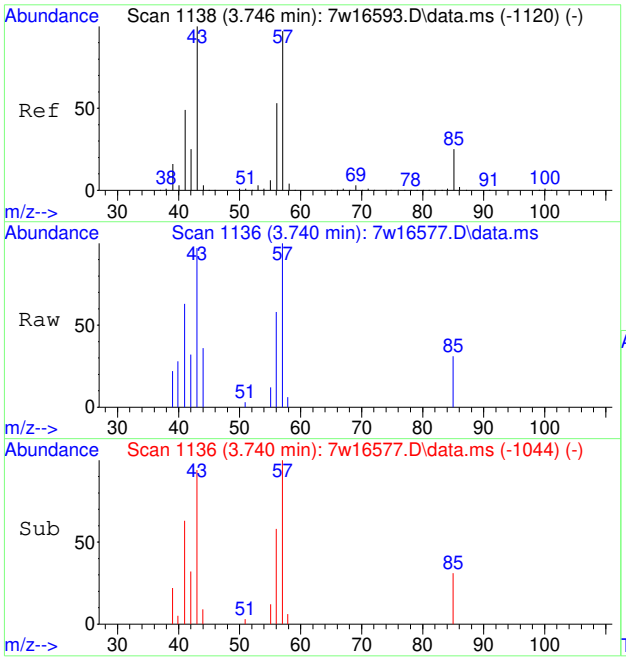


#46
CHLOROFORM
Concen: 0.10 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2745

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	35.4	17.9	33.3#

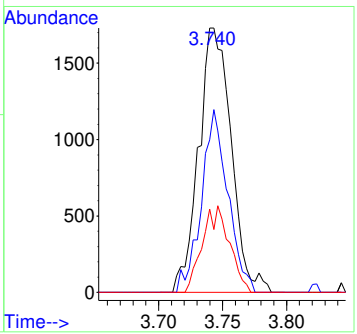


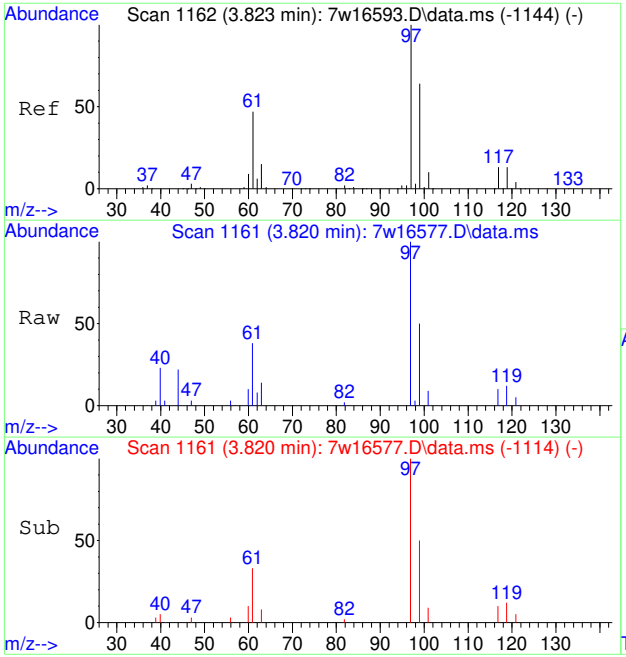


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 3064

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	27.2	24.1	44.7

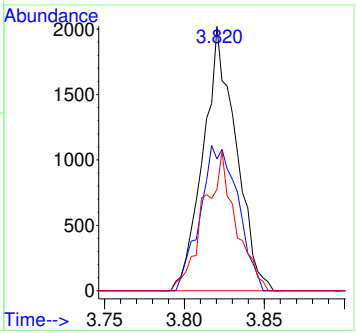


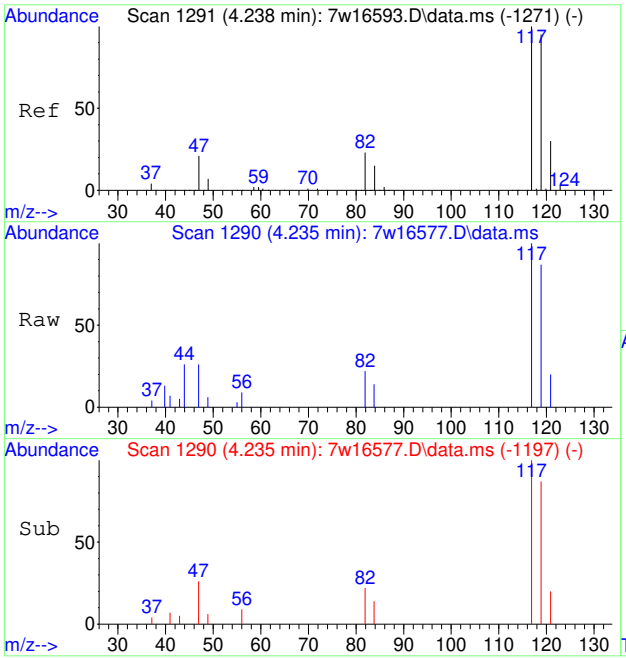


#48
1,1,1-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 97 Resp: 2869

Ion	Ratio	Lower	Upper
97	100		
99	63.8	44.9	83.5
61	51.8	28.6	53.0

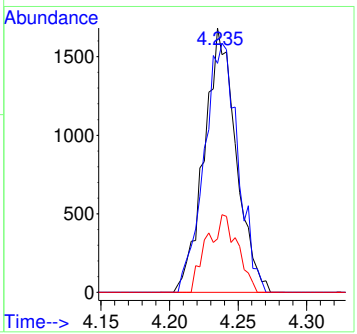


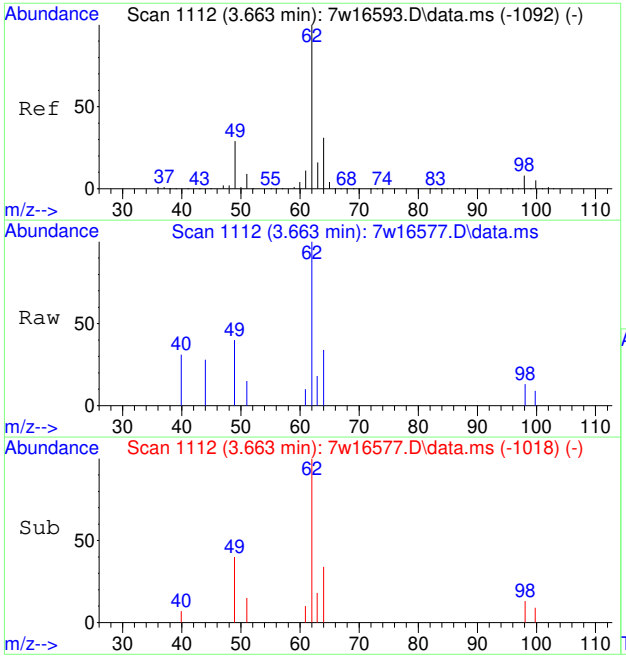


#49
CARBON TETRACHLORIDE
Concen: 0.09 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2721

Ion	Ratio	Lower	Upper
117	100		
119	100.0	68.8	127.8
121	28.2	22.2	41.2

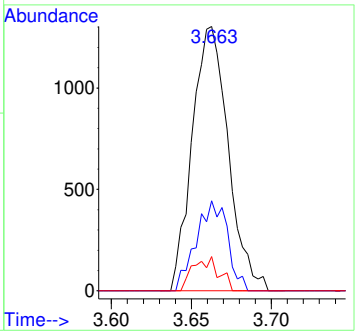


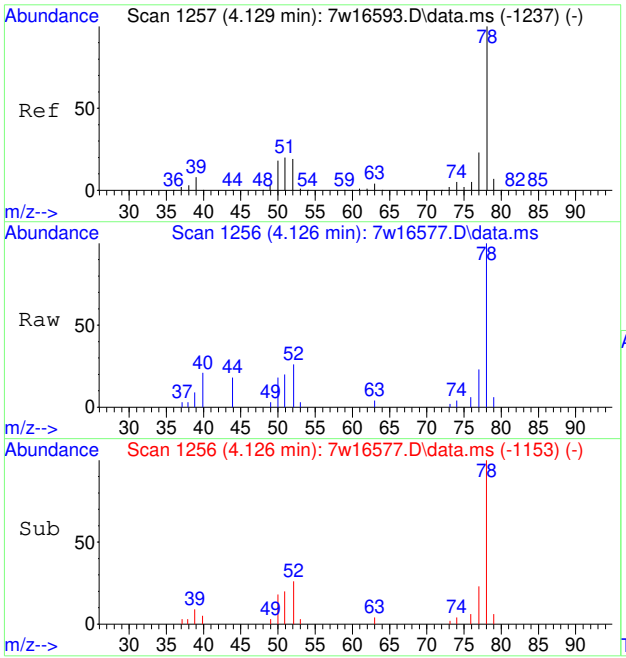


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 2043

Ion	Ratio	Lower	Upper
62	100		
64	29.5	22.5	41.7
98	9.2	6.8	12.6

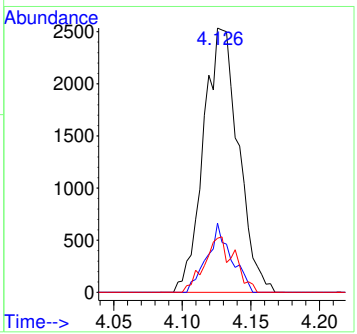


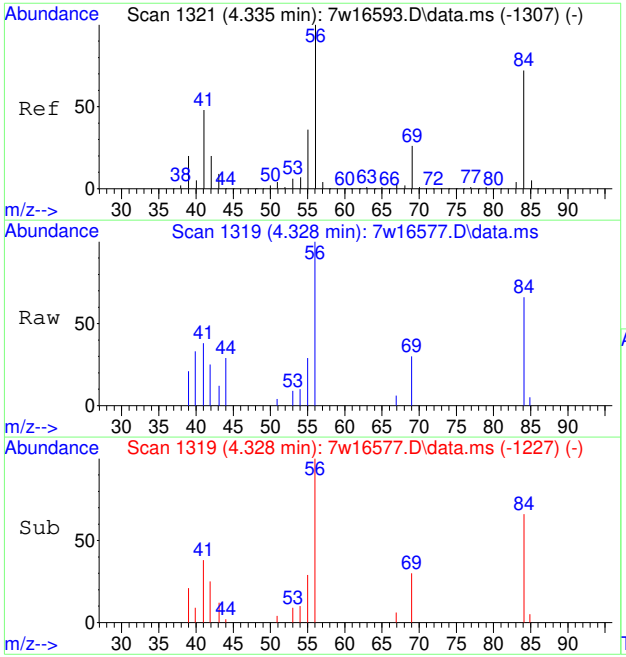


#51
BENZENE
Concen: 0.12 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 78 Resp: 4491

Ion	Ratio	Lower	Upper
78	100		
52	18.1	0.0	44.6
51	18.1	0.0	47.3

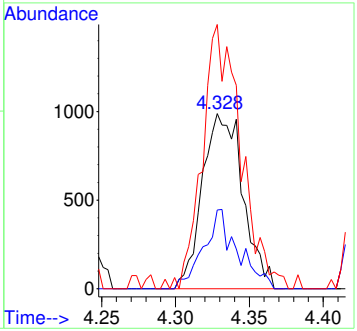


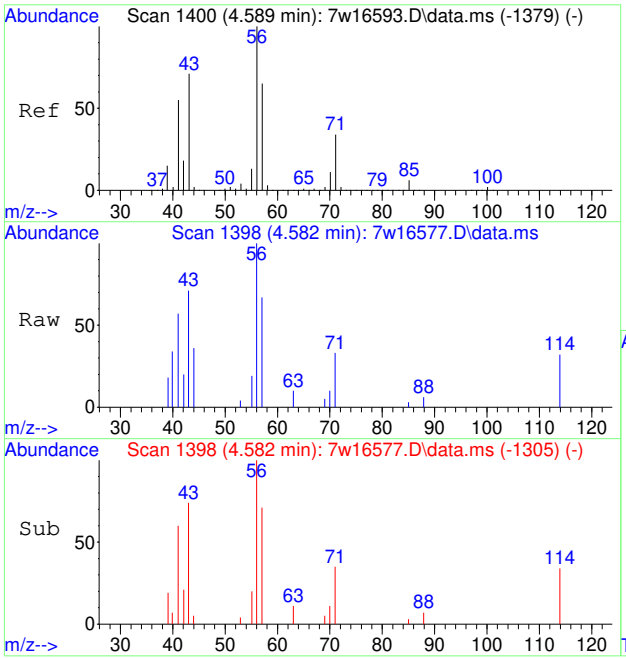


#53
CYCLOHEXANE
Concen: 0.11 PPBV
RT: 4.328 min Scan# 1319
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1883

Ion	Ratio	Lower	Upper
84	100		
69	37.8	22.3	41.5
56	143.3	70.2	130.4#

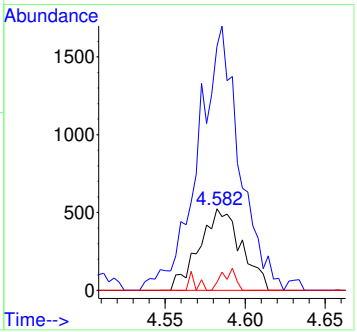


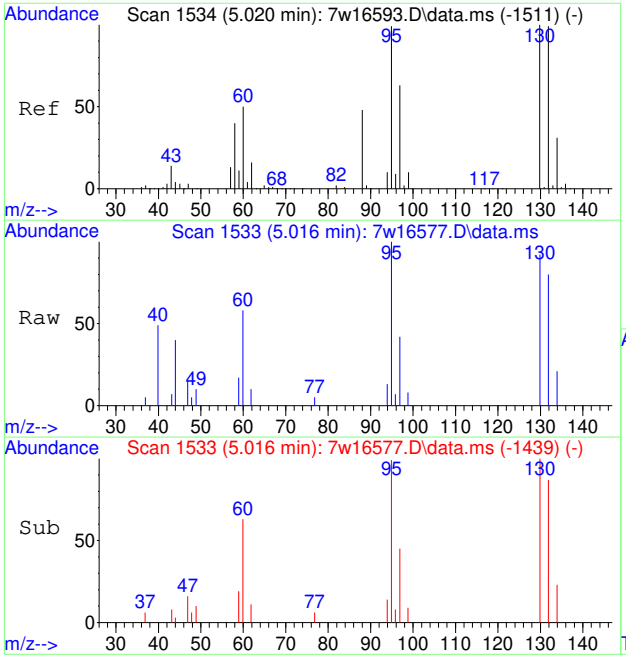


#54
2,3-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 71 Resp: 954

Ion	Ratio	Lower	Upper
71	100		
56	327.5	171.4	318.4#
85	8.9	12.6	23.4#

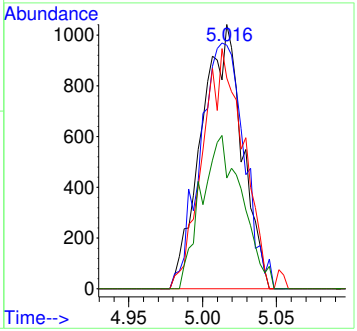


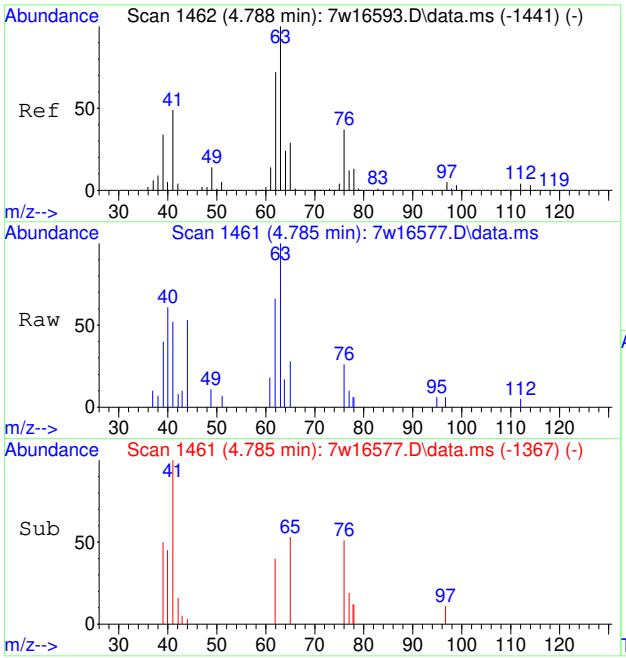


#55
TRICHLOROETHENE
Concen: 0.11 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 95 Resp: 1997

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	92.2	79.4	147.4
97	58.3	45.0	83.6

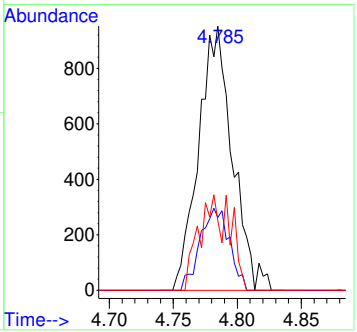


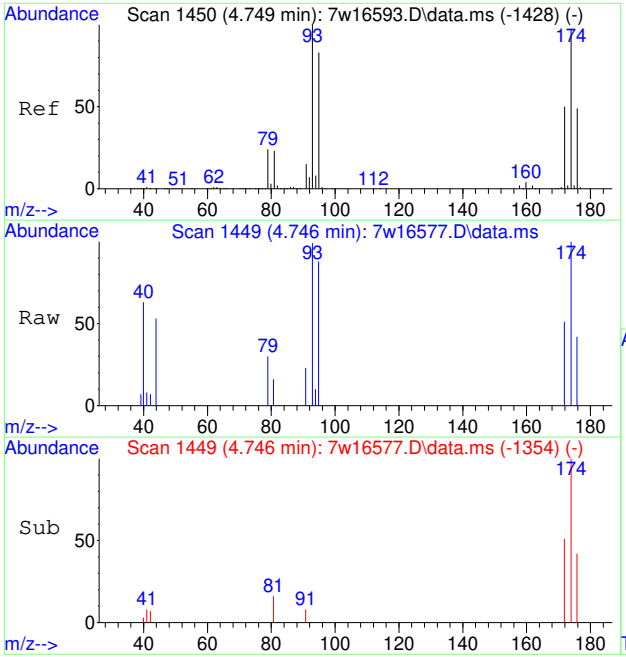


#56
1,2-DICHLOROPROPANE
Concen: 0.11 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 1753

Ion	Ratio	Lower	Upper
63	100		
65	26.8	22.6	42.0
76	32.9	31.8	59.0

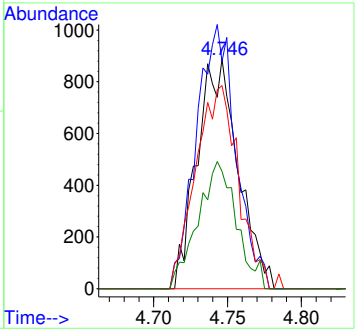


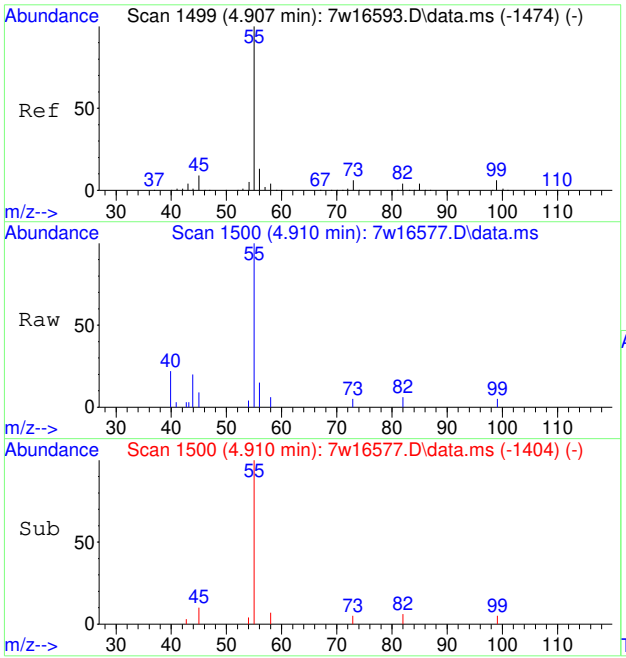


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:174 Resp: 1723

Ion	Ratio	Lower	Upper
174	100		
93	110.2	67.3	125.1
95	91.9	56.8	105.6
172	51.7	36.3	67.5

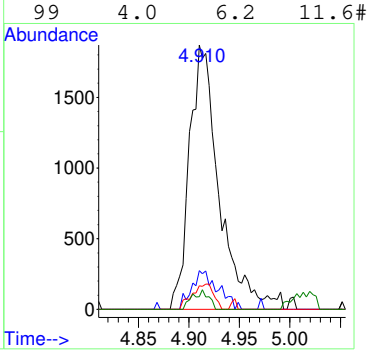


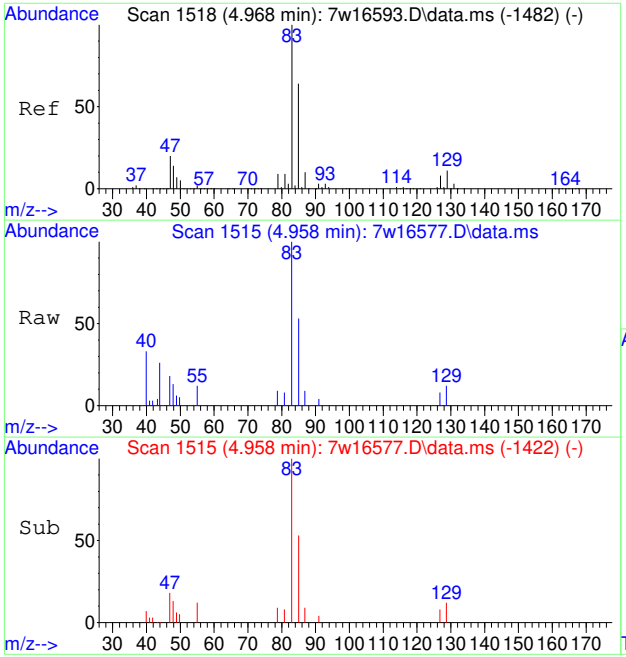


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV
RT: 4.910 min Scan# 1500
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3841

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	7.6	6.6	12.2
99	4.0	6.2	11.6#

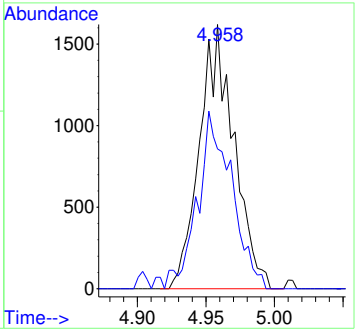


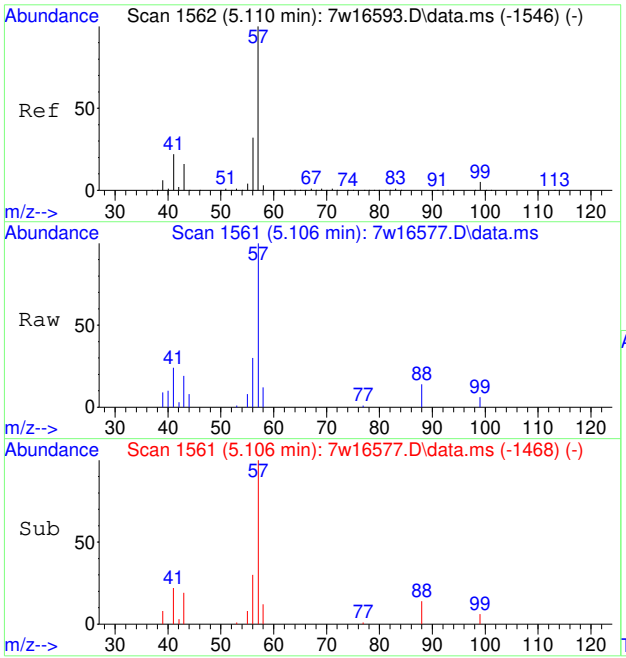


#59
BROMODICHLOROMETHANE
Concen: 0.09 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2818

Ion	Ratio	Lower	Upper
83	100		
85	67.7	44.9	83.5

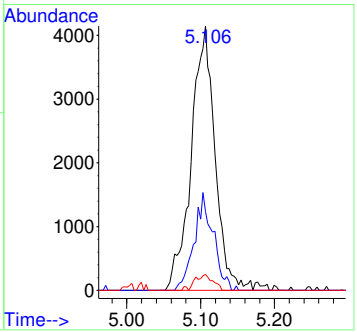


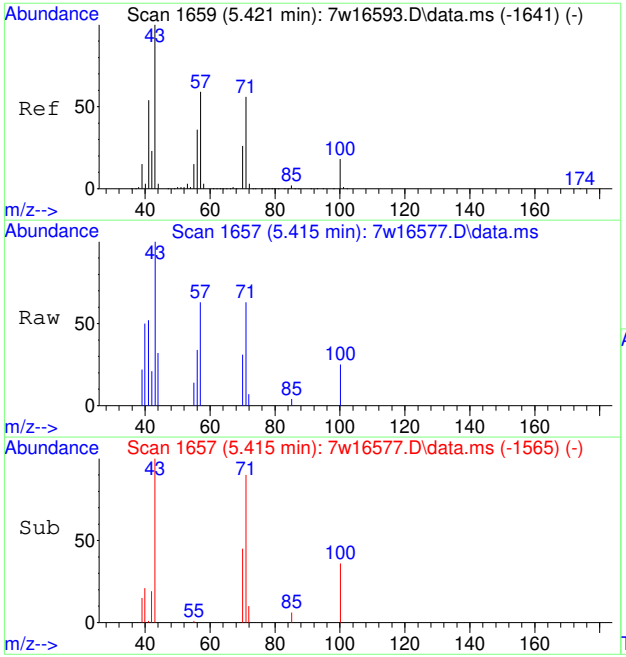


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.12 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 9397

Ion	Ratio	Lower	Upper
57	100		
56	29.2	24.4	45.2
99	4.5	5.2	9.6#

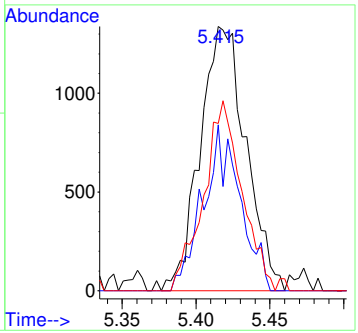


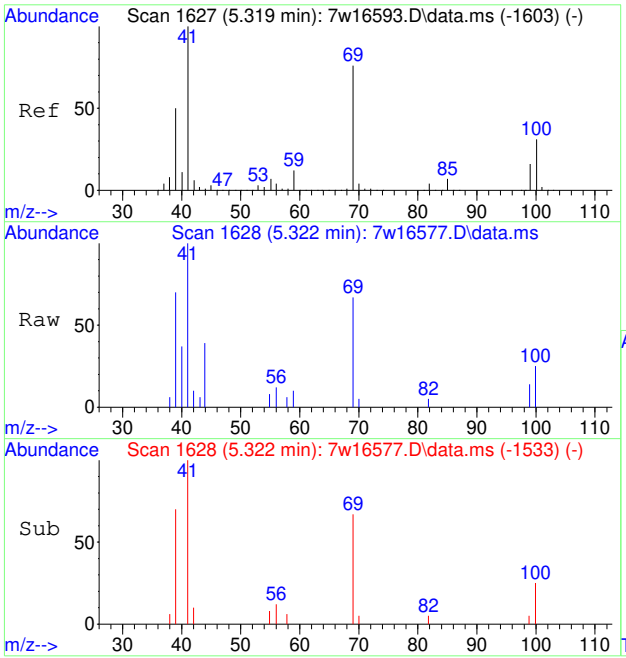


#62
HEPTANE
Concen: 0.11 PPBV
RT: 5.415 min Scan# 1657
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2892

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	60.8	37.2	69.0

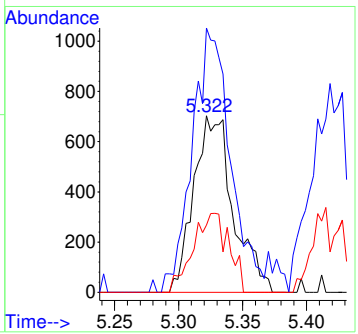


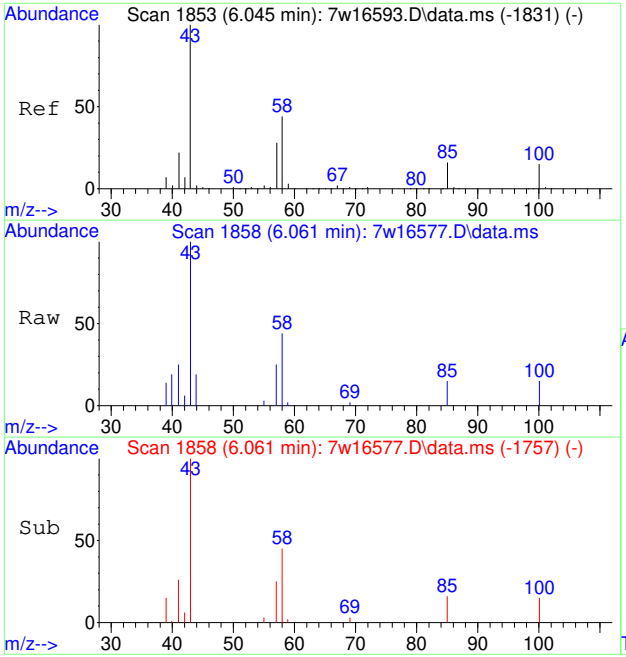


#63
METHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 1510

Ion	Ratio	Lower	Upper
69	100		
41	151.7	84.3	156.5
100	40.5	30.8	57.2

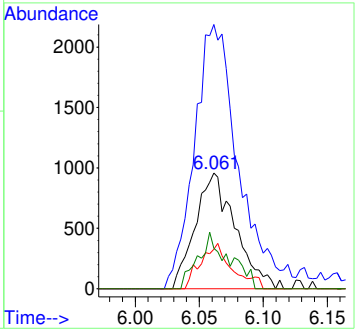


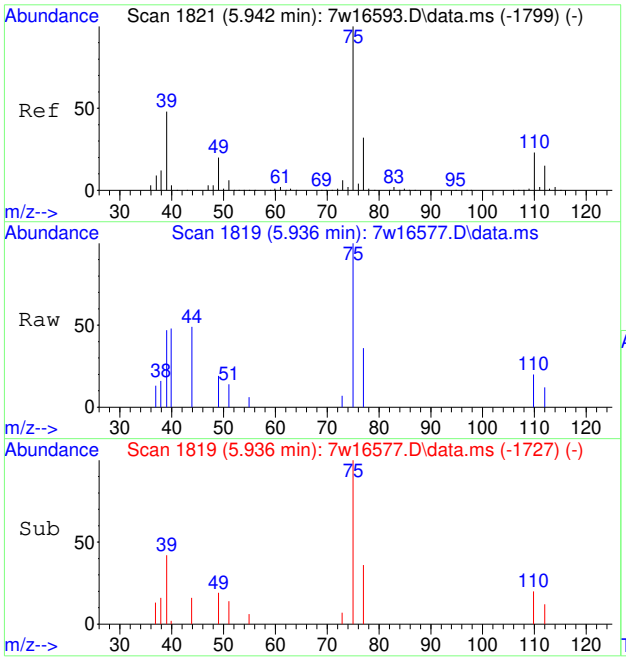


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 6.061 min Scan# 1858
Delta R.T. 0.026 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 2096

Ion	Ratio	Lower	Upper
58	100		
43	258.2	193.8	360.0
100	30.6	32.8	60.8#
85	37.5	33.3	61.9

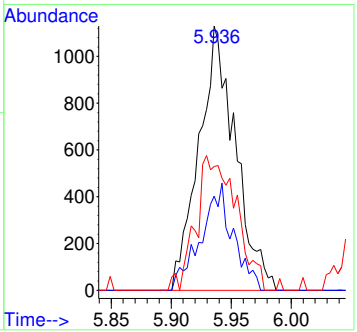


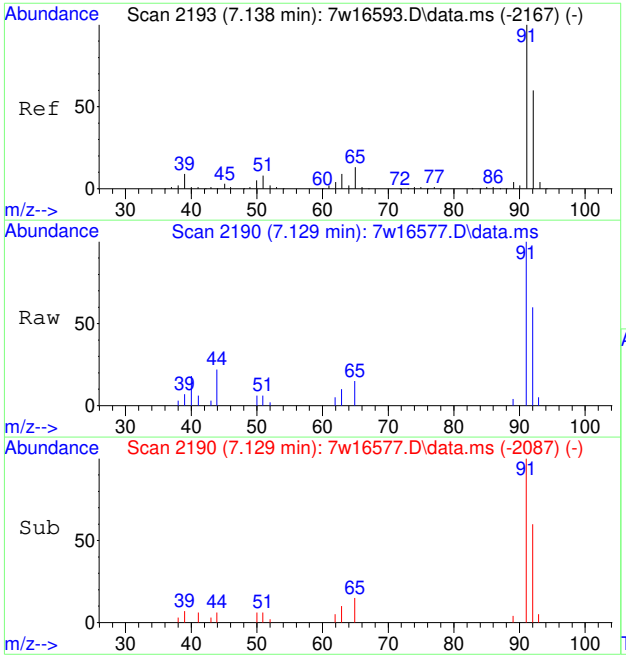


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.09 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2385

Ion	Ratio	Lower	Upper
75	100		
77	35.4	22.0	40.8
39	55.9	38.5	71.5

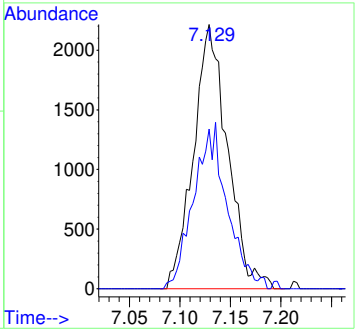


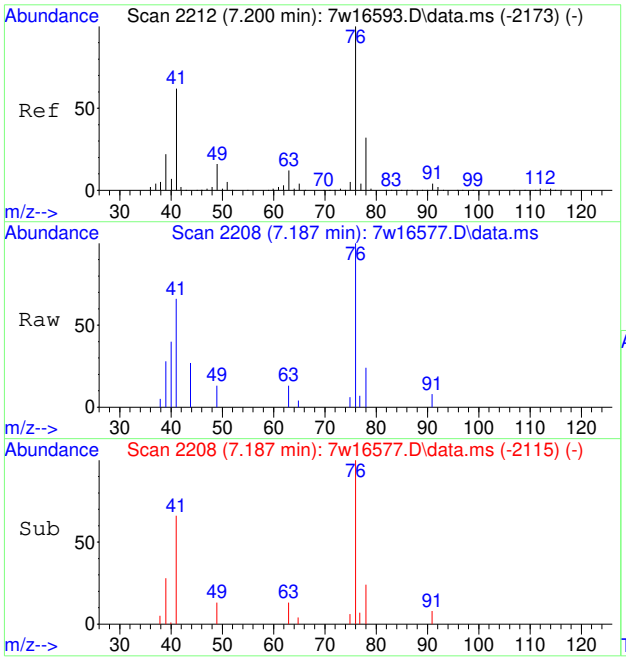


#66
TOLUENE
Concen: 0.11 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5187

Ion	Ratio	Lower	Upper
91	100		
92	62.0	28.1	88.1

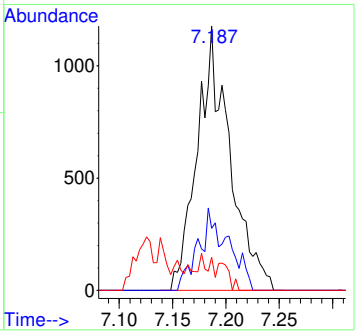


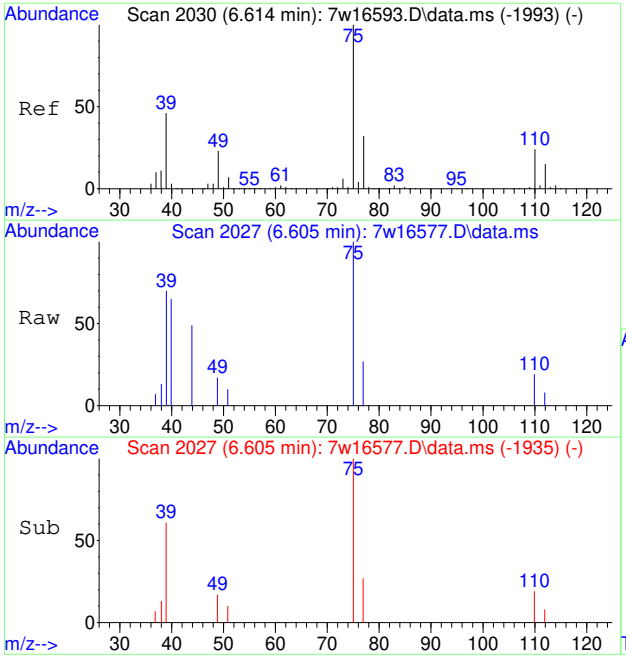


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 2497

Ion	Ratio	Lower	Upper
76	100		
78	28.4	22.1	41.1
63	7.7	8.0	14.8#

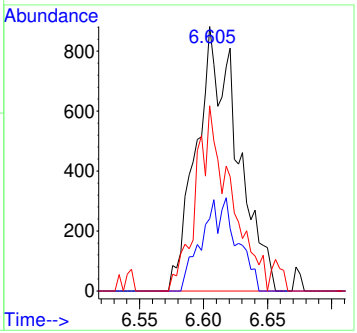


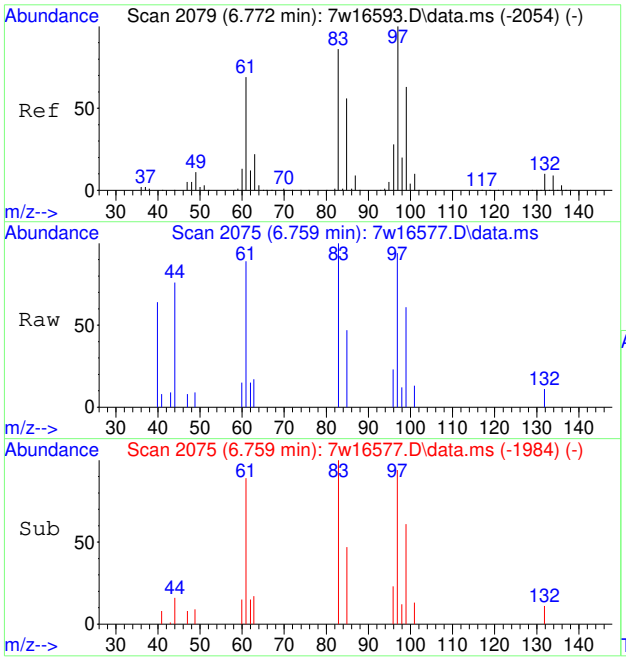


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.08 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 1972

Ion	Ratio	Lower	Upper
75	100		
77	30.0	22.5	41.7
39	59.3	37.2	69.0

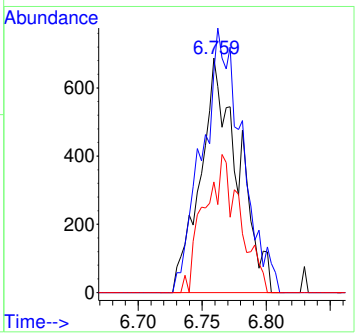


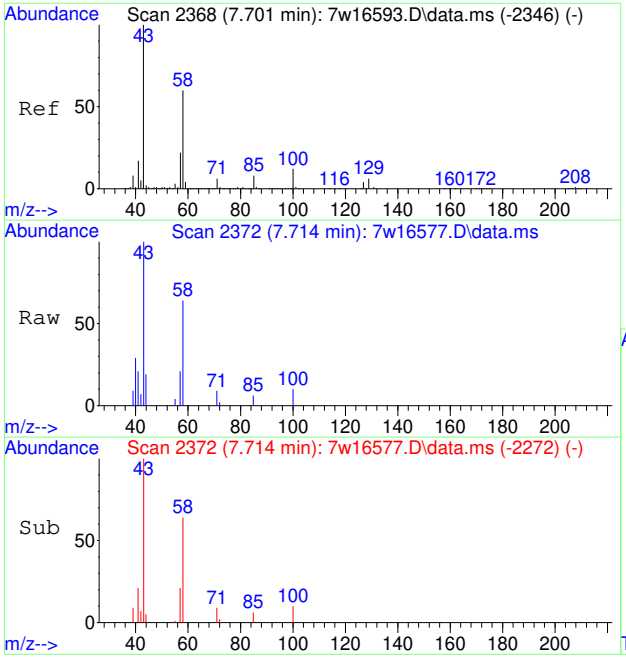


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 6.759 min Scan# 2075
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 1417

Ion	Ratio	Lower	Upper
83	100		
97	118.6	86.7	160.9
85	55.3	45.5	84.5

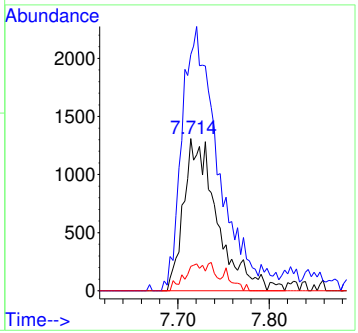


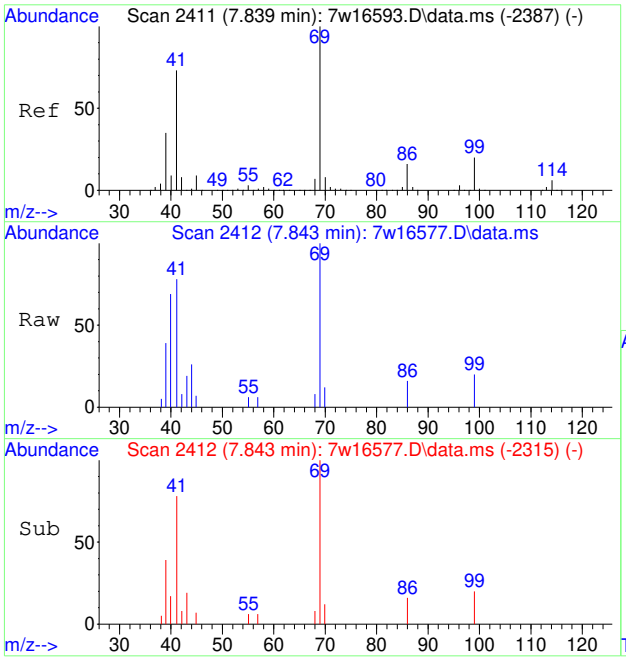


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.714 min Scan# 2372
Delta R.T. 0.023 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 3348

Ion	Ratio	Lower	Upper
58	100		
43	190.0	141.7	263.3
100	0.0	18.9	35.1#

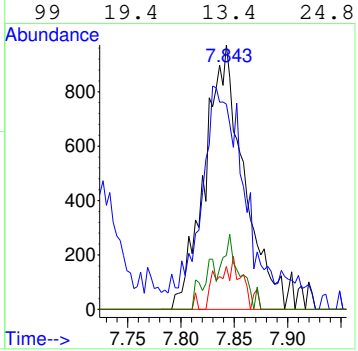


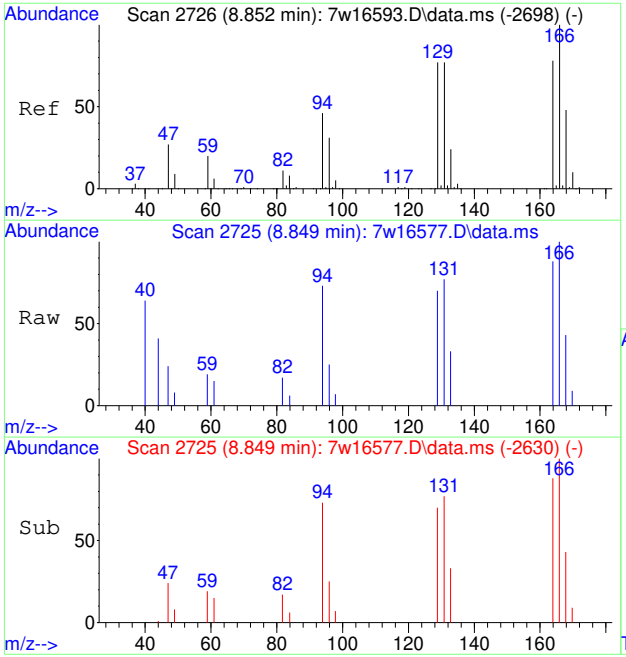


#71
ETHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 2476

Ion	Ratio	Lower	Upper
69	100		
41	101.2	49.3	91.6#
86	12.9	11.6	21.6
99	19.4	13.4	24.8

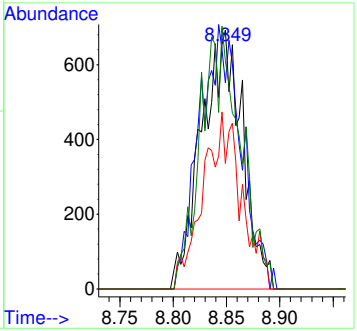


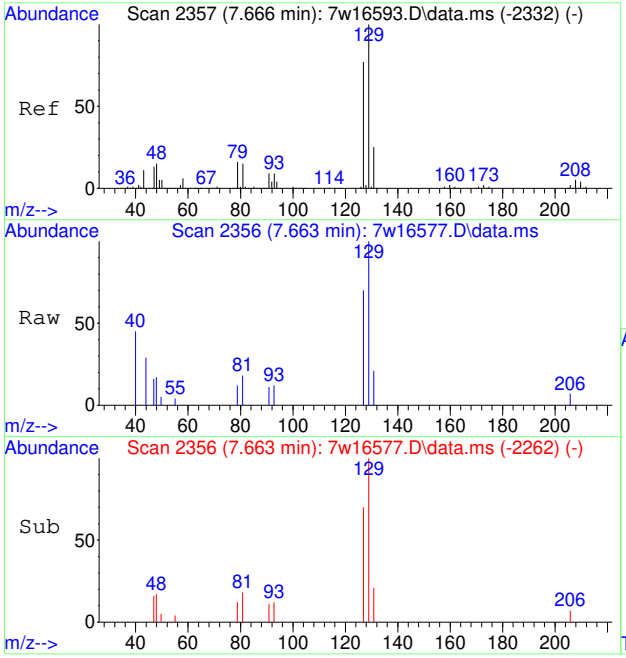


#72
TETRACHLOROETHENE
Concen: 0.11 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:164 Resp: 1845

Ion	Ratio	Lower	Upper
164	100		
129	103.4	69.7	129.5
168	63.9	43.4	80.6
131	98.6	67.1	124.5

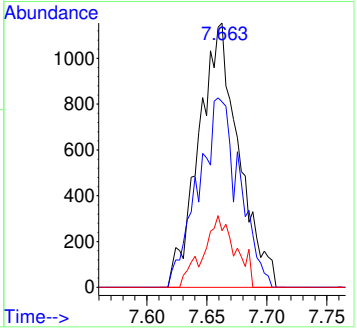


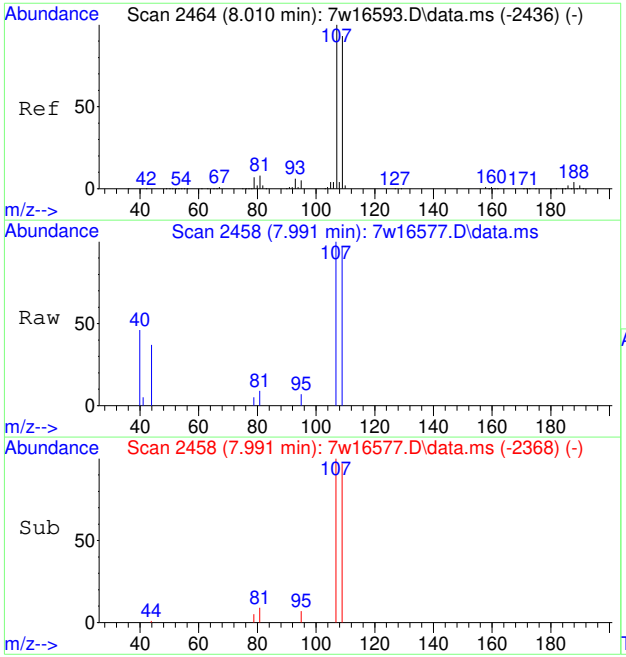


#73
DIBROMOCHLOROMETHANE
Concen: 0.09 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:129 Resp: 2664

Ion	Ratio	Lower	Upper
129	100		
127	73.7	53.0	98.4
131	21.8	16.9	31.3

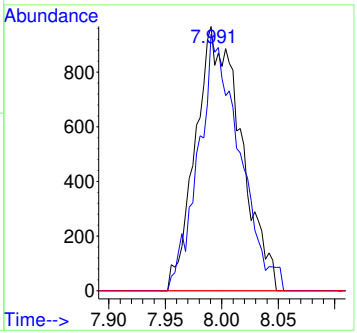


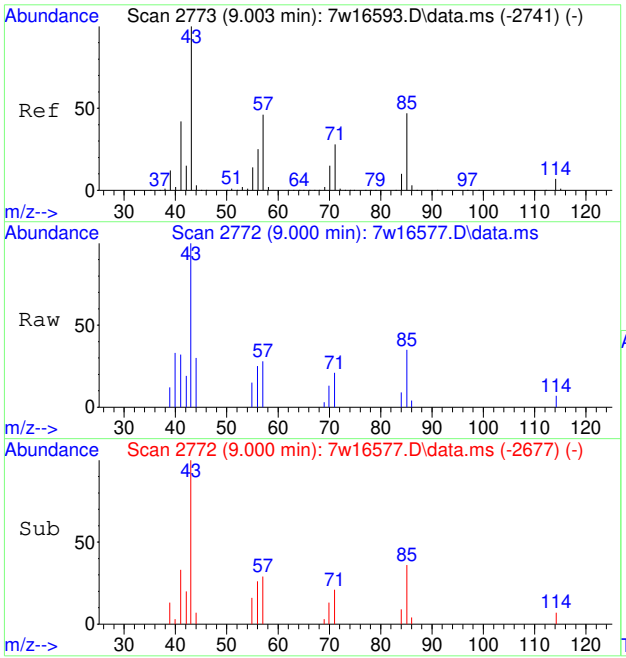


#74
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 7.991 min Scan# 2458
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:107 Resp: 2697

Ion	Ratio	Lower	Upper
107	100		
109	88.3	65.7	122.1
188	0.0	2.4	4.4#

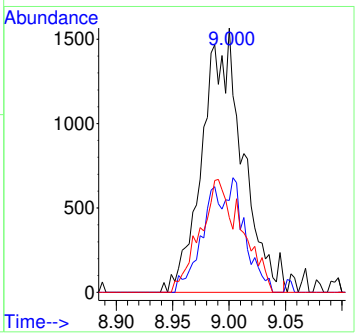


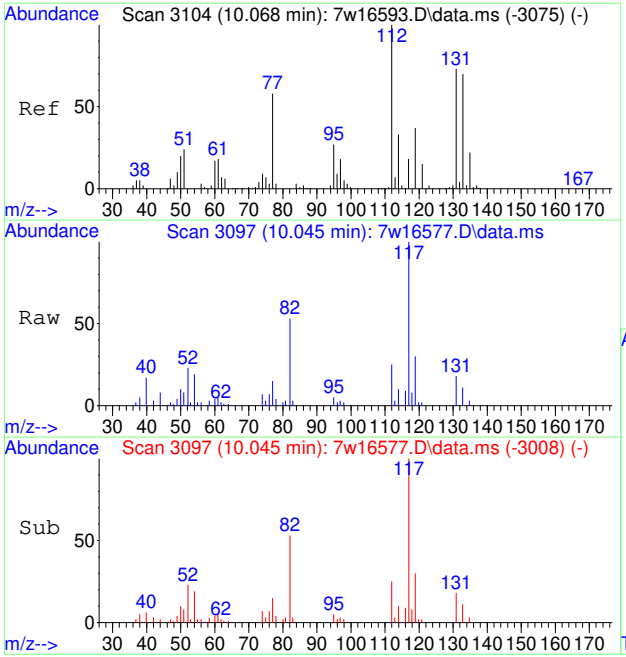


#75
OCTANE
Concen: 0.11 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
85	42.0	36.5	67.9
57	44.2	27.6	51.2

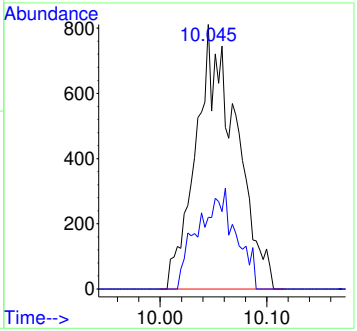


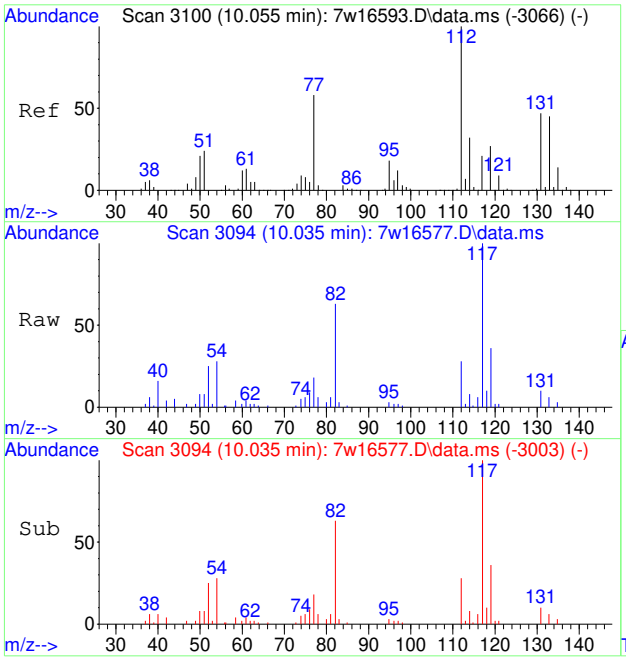


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:131 Resp: 2123

Ion	Ratio	Lower	Upper
131	100		
95	35.4	23.7	43.9

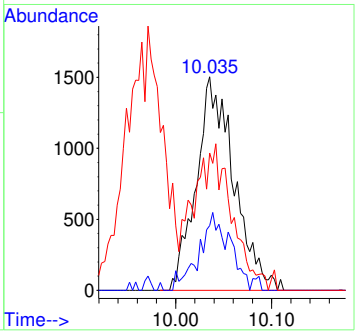


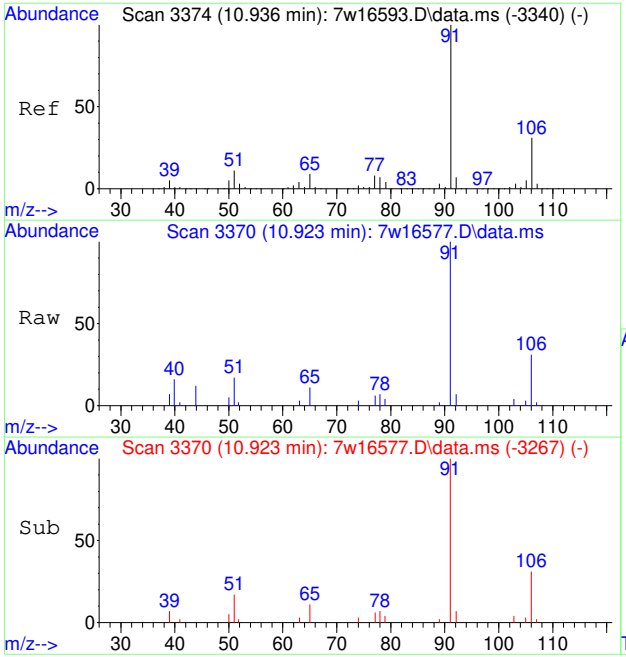


#78
CHLOROBENZENE
Concen: 0.11 PPBV
RT: 10.035 min Scan# 3094
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:112 Resp: 4090

Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.9	42.5
77	71.1	34.4	63.8#

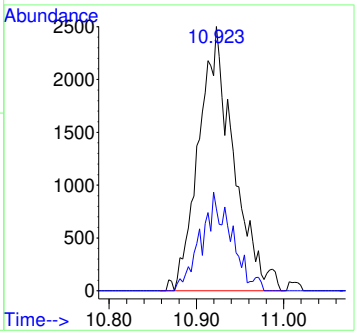


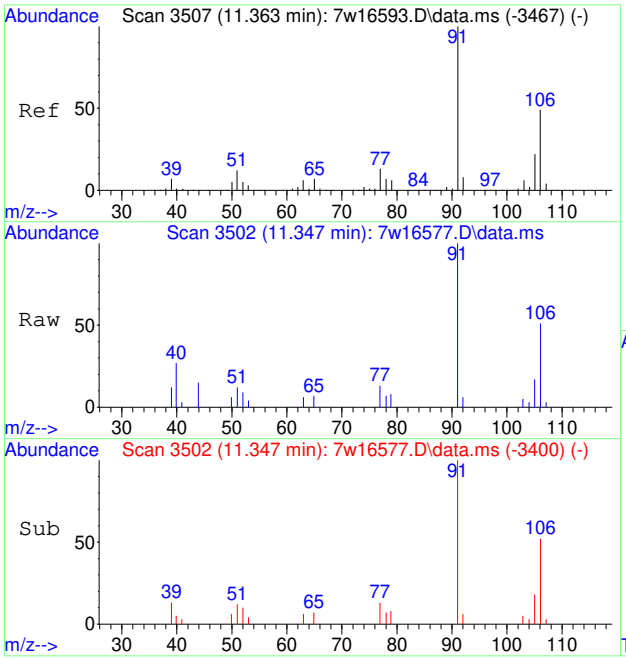


#79
ETHYLBENZENE
Concen: 0.11 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 6930

Ion	Ratio	Lower	Upper
91	100		
106	32.8	2.8	62.8

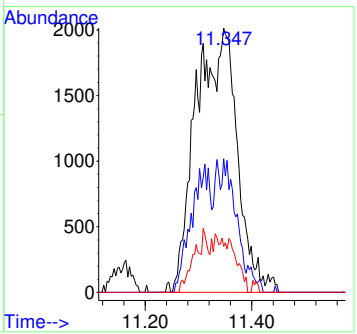


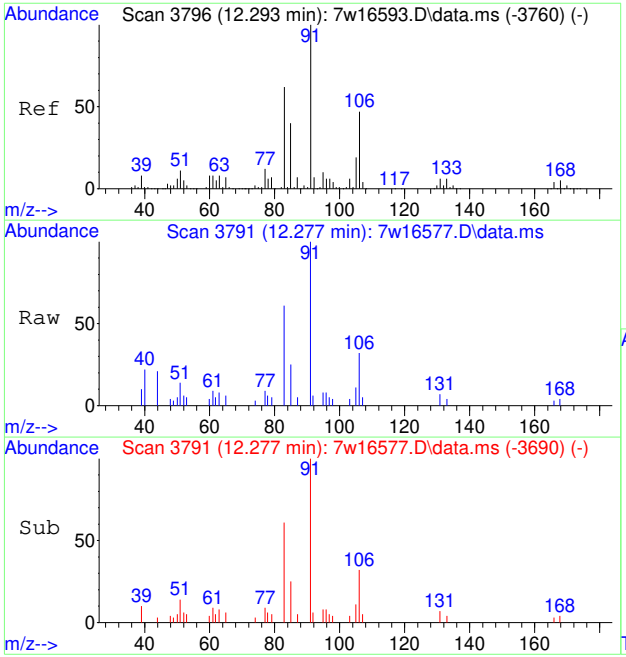


#80
M,P-XYLENE
Concen: 0.22 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 10889

Ion	Ratio	Lower	Upper
91	100		
106	26.3	0.0	58.7
105	0.0	0.0	43.2

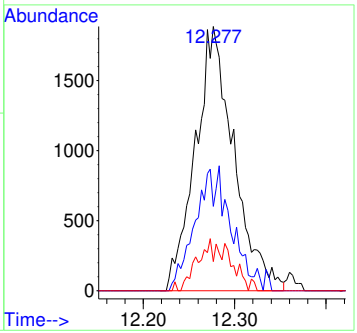


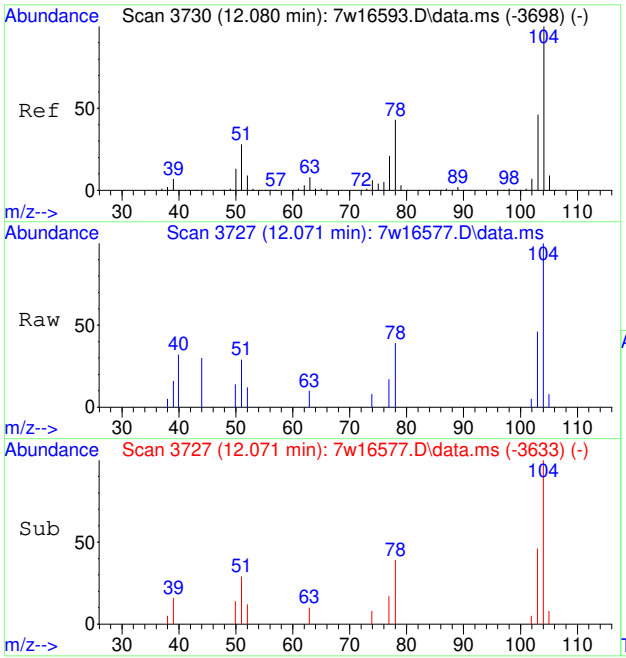


#81
O-XYLENE
Concen: 0.11 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5536

Ion	Ratio	Lower	Upper
91	100		
106	31.9	34.1	63.3#
105	11.1	14.6	27.2#

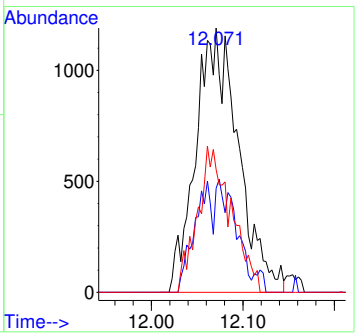


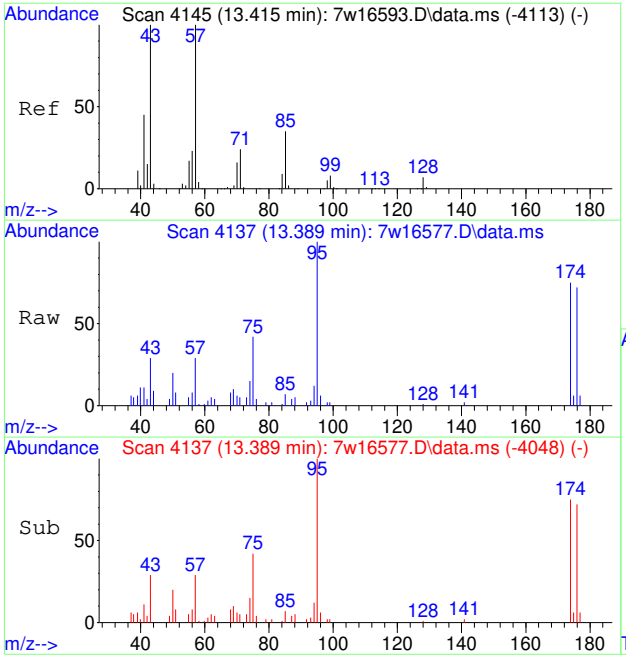


#82
STYRENE
Concen: 0.10 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:104 Resp: 3856

Ion	Ratio	Lower	Upper
104	100		
78	22.0	25.3	46.9#
103	0.0	33.2	61.7#

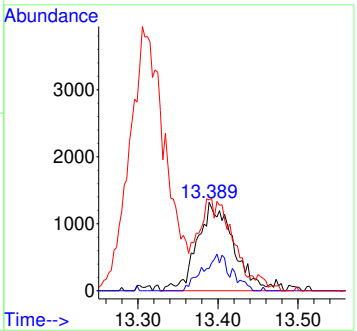


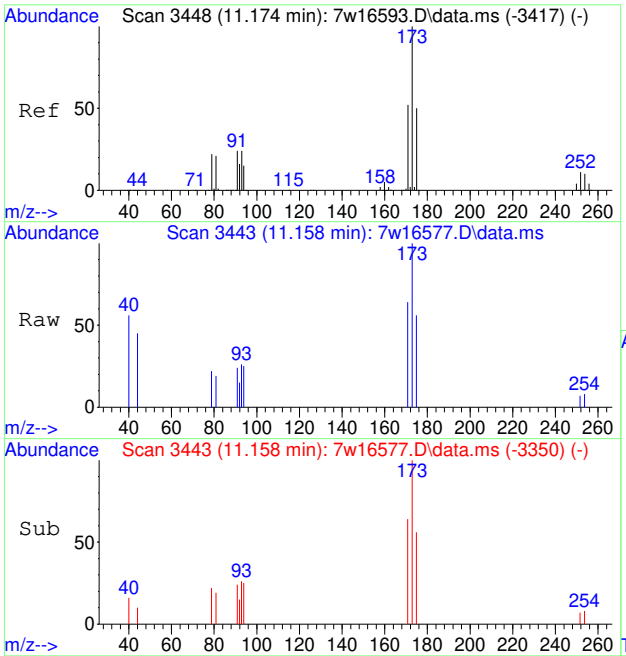


#83
NONANE
Concen: 0.11 PPBV
RT: 13.389 min Scan# 4137
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 4193

Ion	Ratio	Lower	Upper
43	100		
85	31.9	27.6	51.2
57	100.3	56.4	104.7

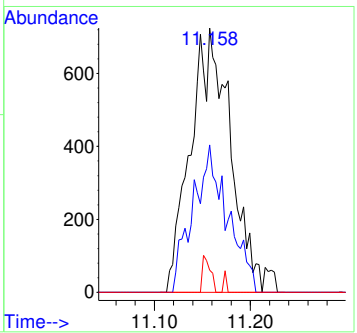


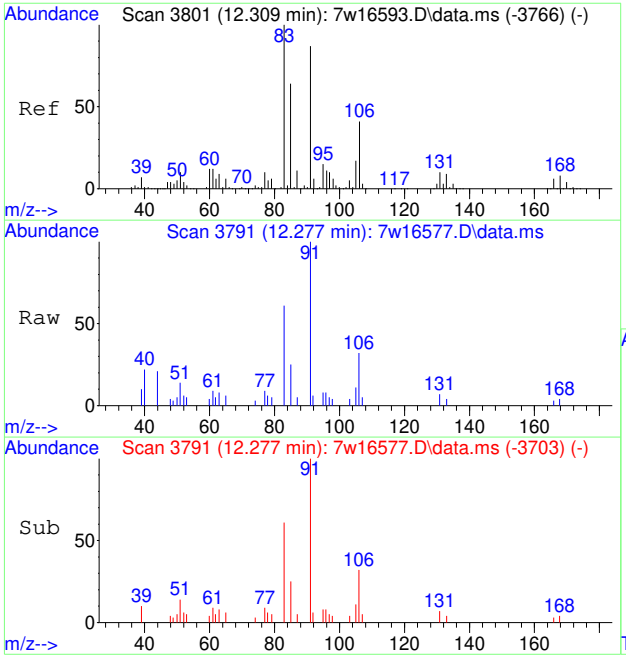


#84
BROMOFORM
Concen: 0.08 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:173 Resp: 2131

Ion	Ratio	Lower	Upper
173	100		
175	47.8	33.0	61.4
254	2.7	5.9	10.9#

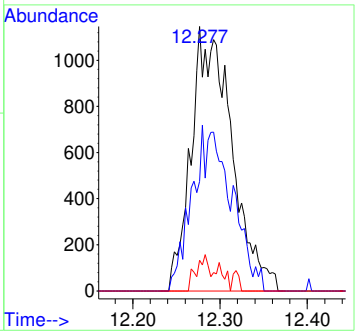


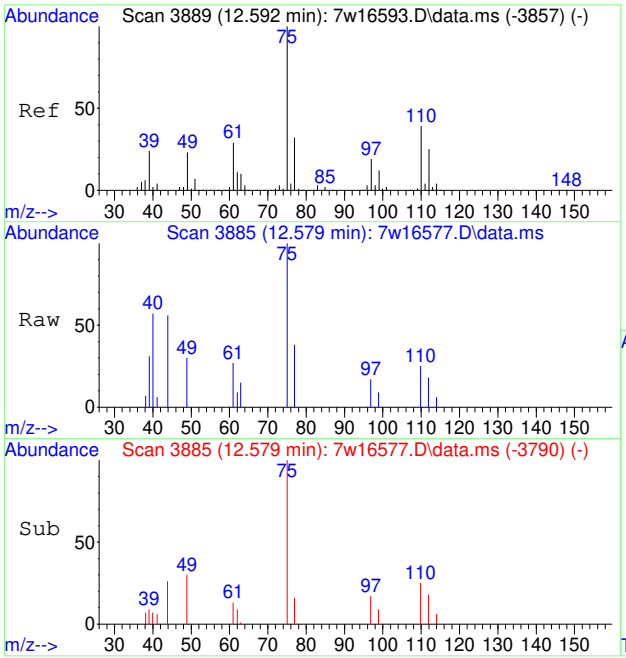


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.016 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 3686

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	6.1	8.0	14.8#

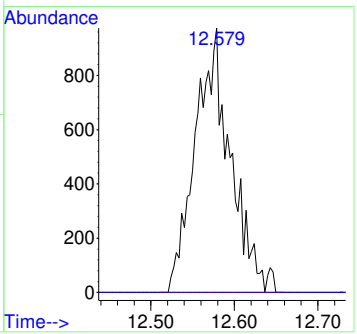


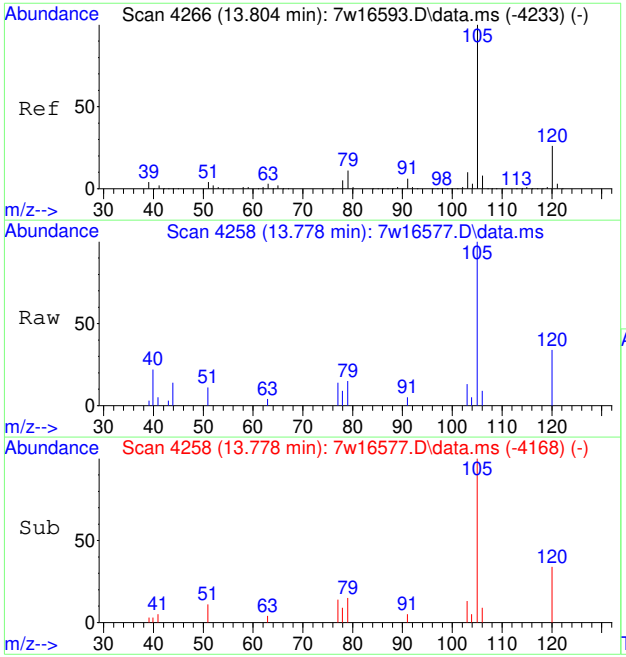


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.10 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2860

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

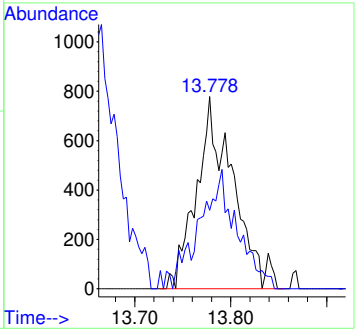


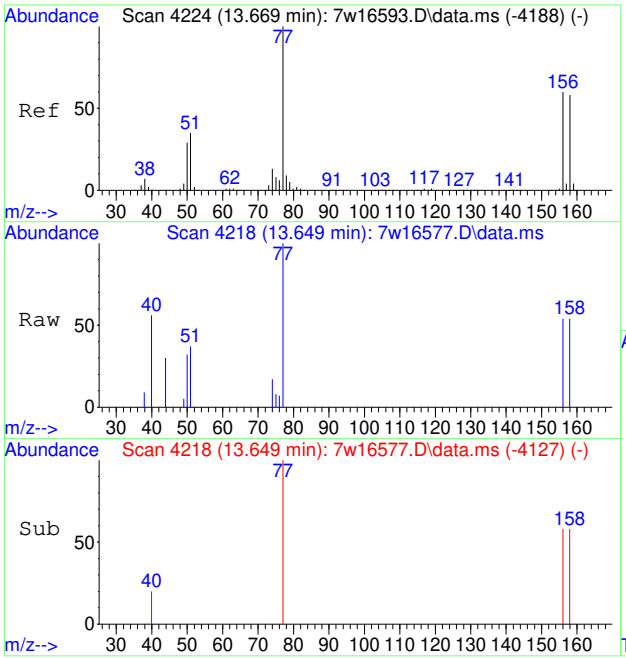


#88
ISOPROPYLBENZENE
Concen: 0.11 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 2075

Ion	Ratio	Lower	Upper
120	100		
77	64.6	36.0	67.0

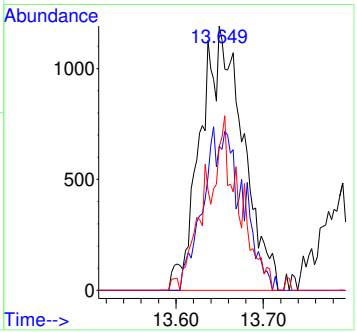


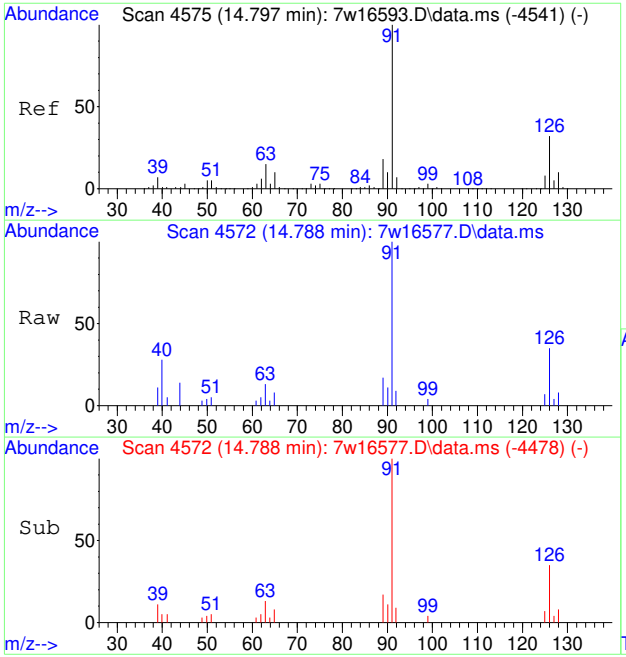


#89
BROMOBENZENE
Concen: 0.11 PPBV
RT: 13.649 min Scan# 4218
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 77 Resp: 4058

Ion	Ratio	Lower	Upper
77	100		
156	56.9	57.9	107.5#
158	51.5	55.7	103.5#

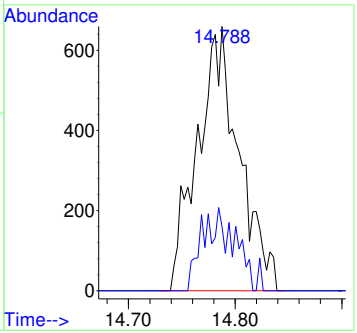


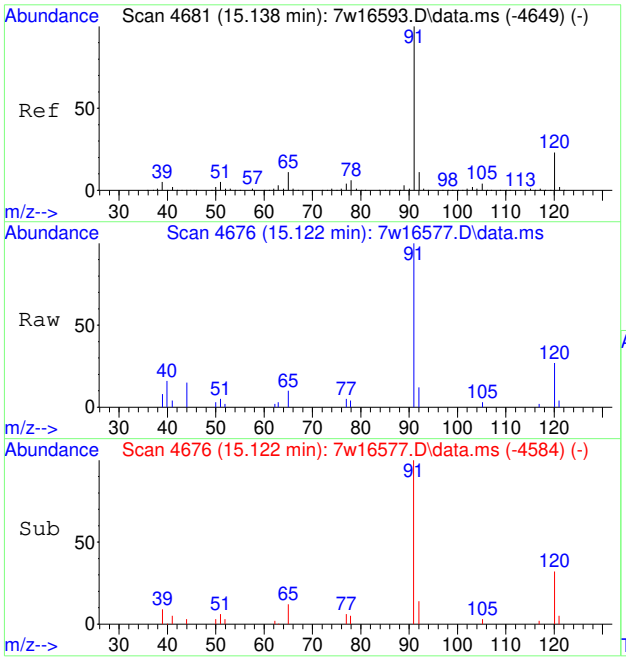


#90
2-CHLOROTOLUENE
Concen: 0.10 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:126 Resp: 1780

Ion	Ratio	Lower	Upper
126	100		
128	10.4	22.7	42.1#

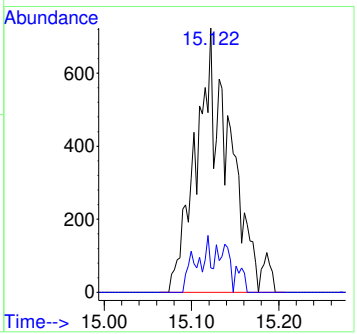


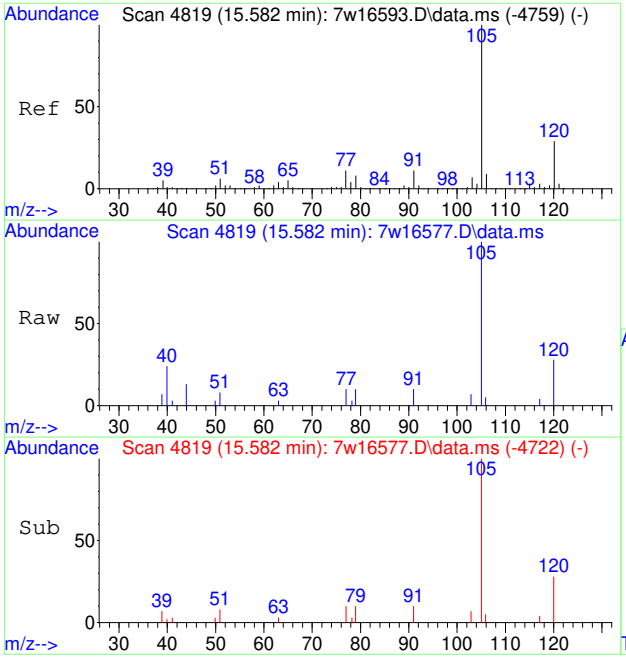


#91
N-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 1971

Ion	Ratio	Lower	Upper
120	100		
105	17.7	10.6	19.6

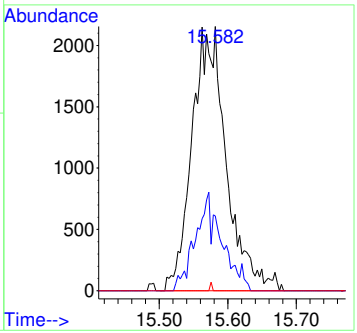


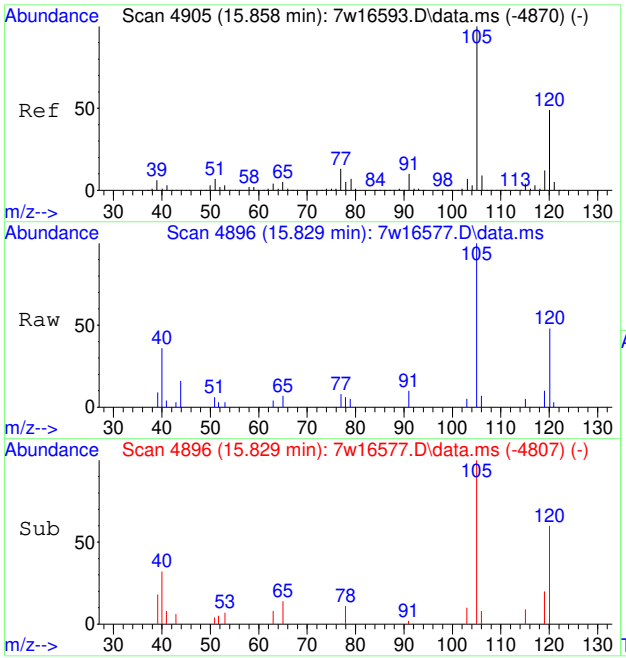


#92
4-ETHYLTOLUENE
Concen: 0.10 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 7463

Ion	Ratio	Lower	Upper
105	100		
120	28.8	21.8	40.4
119	0.0	1.7	3.1#

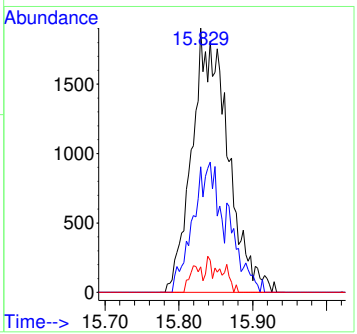


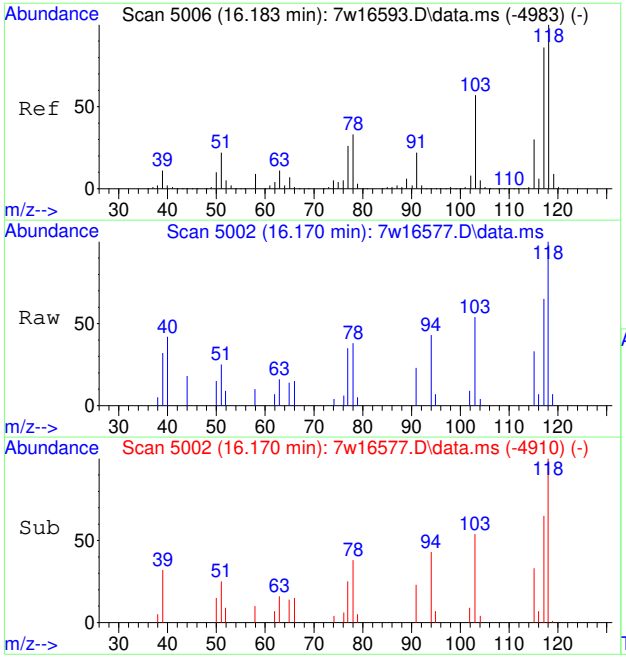


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 15.829 min Scan# 4896
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6383

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.2	69.2#
91	3.4	7.5	13.9#

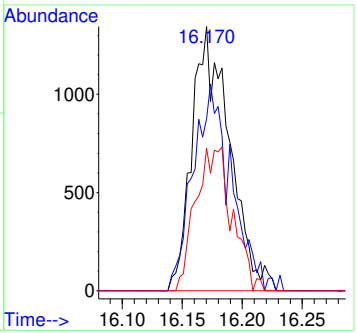


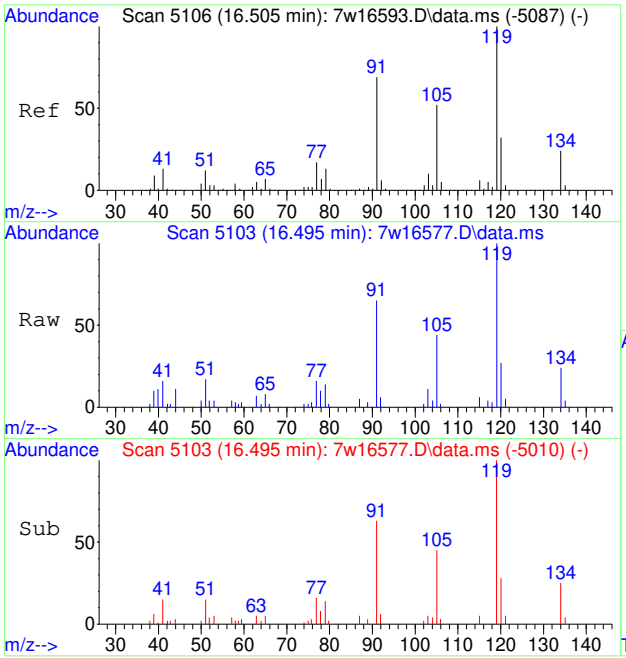


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.170 min Scan# 5002
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:118 Resp: 2929

Ion	Ratio	Lower	Upper
118	100		
117	80.1	59.9	111.3
103	52.7	36.2	67.2

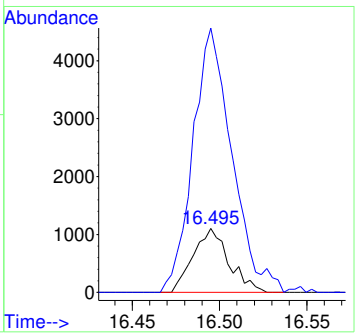


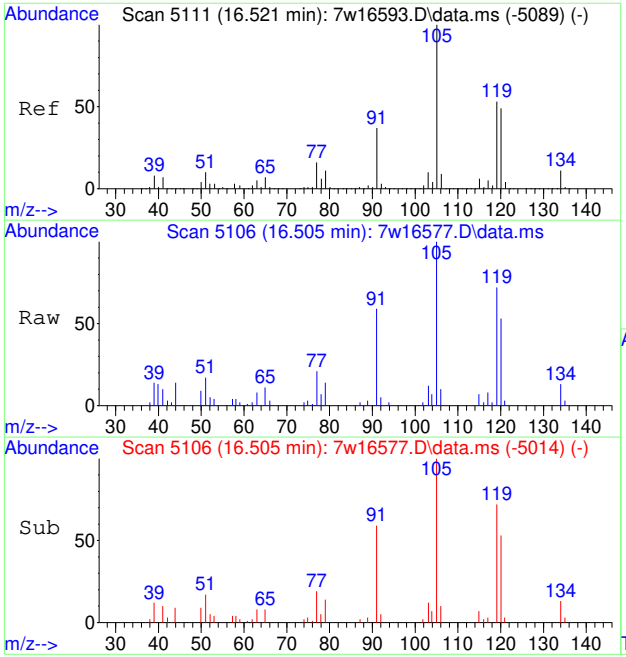


#95
TERT-BUTYLBENZENE
Concen: 0.10 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1569

Ion	Ratio	Lower	Upper
134	100		
119	455.9	307.9	571.7

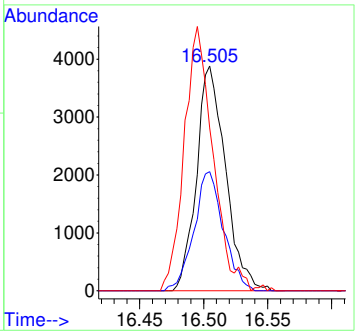


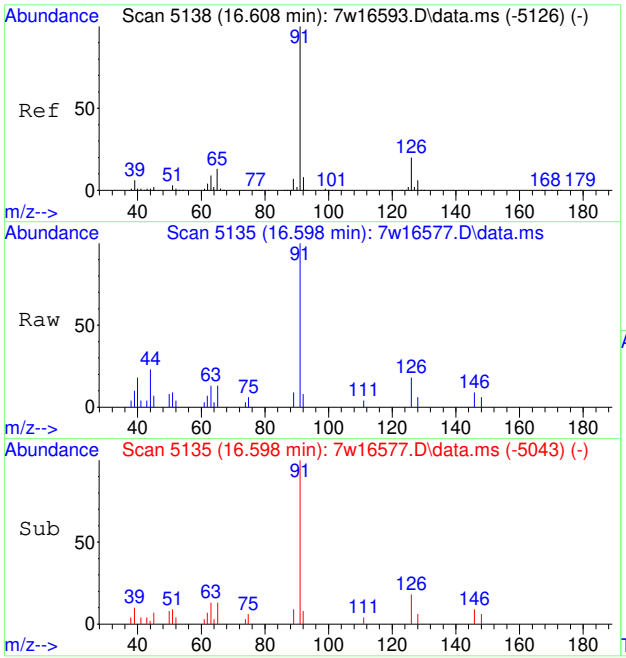


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6125

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	116.8	78.0	144.8

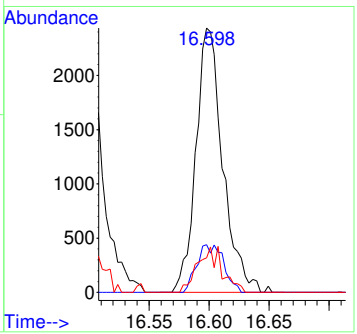


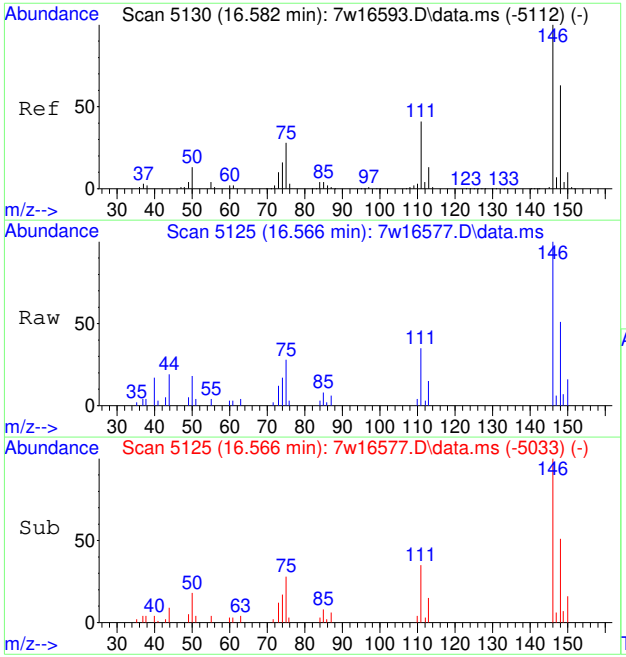


#97
BENZYL CHLORIDE
Concen: 0.07 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 3788

Ion	Ratio	Lower	Upper
91	100		
126	18.1	17.2	32.0
65	15.8	7.3	13.7#

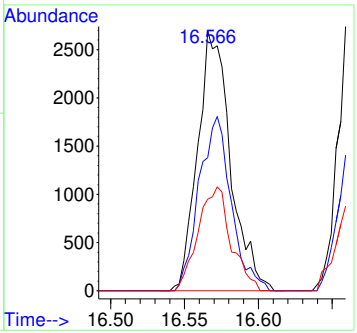


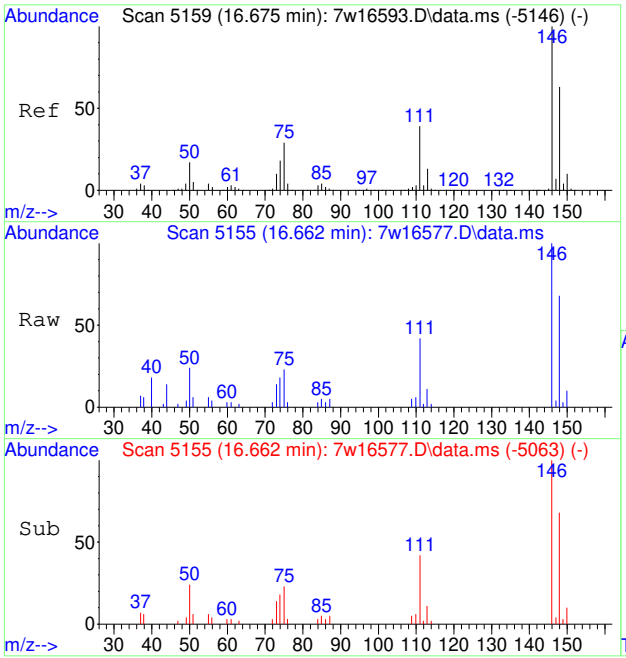


#98
M-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.566 min Scan# 5125
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4159

Ion	Ratio	Lower	Upper
146	100		
148	65.3	44.2	82.2
111	40.1	25.4	47.2

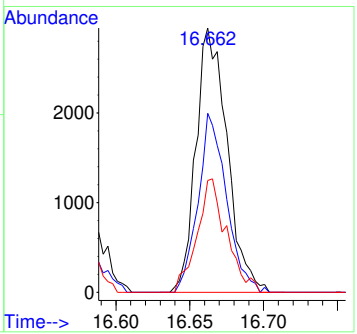


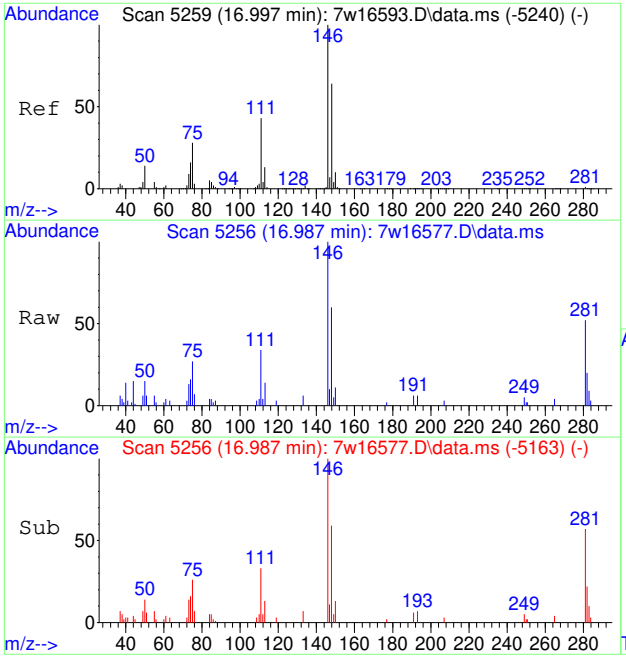


#99
P-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4312

Ion	Ratio	Lower	Upper
146	100		
148	61.9	44.7	82.9
111	40.9	24.8	46.1

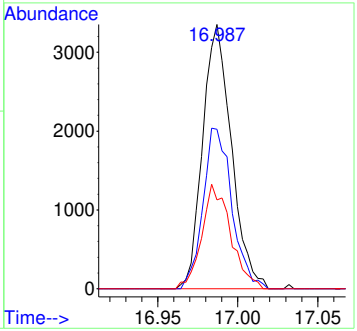


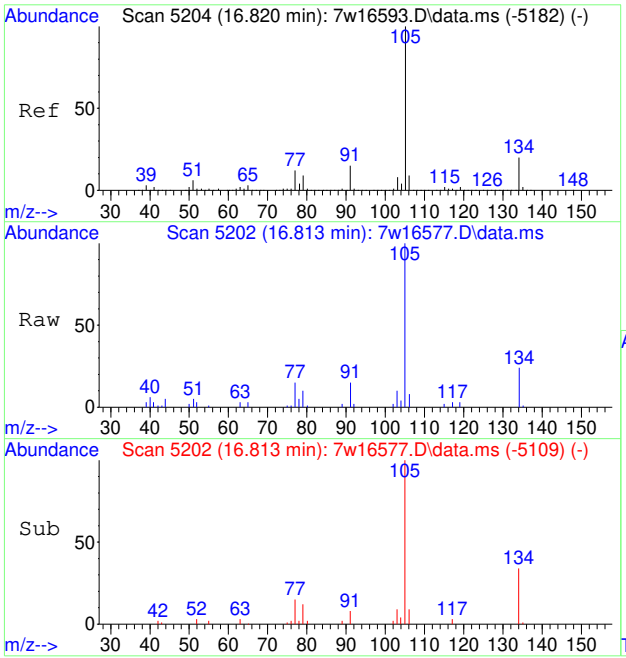


#100
O-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4193

Ion	Ratio	Lower	Upper
146	100		
148	60.9	44.6	82.8
111	39.6	26.9	50.1

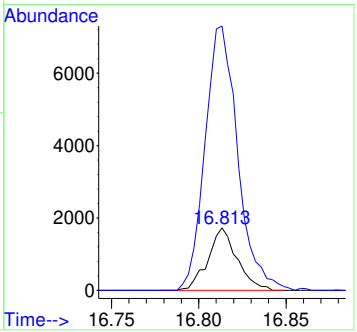


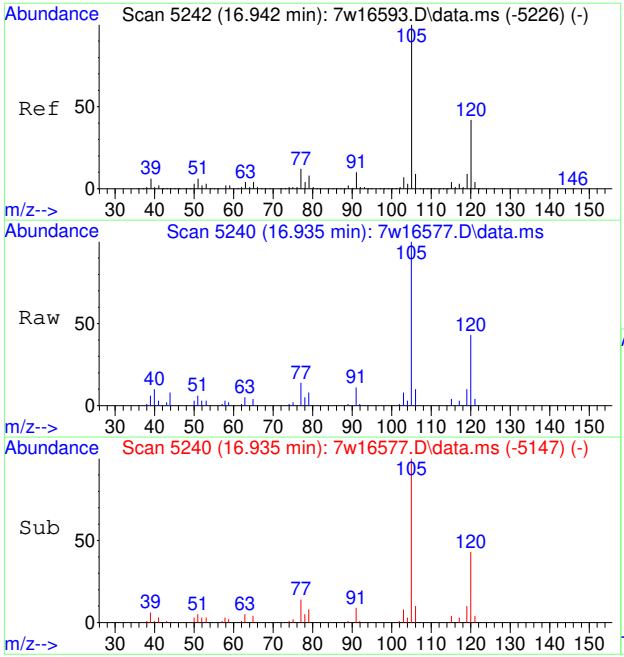


#101
SEC-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2000

Ion	Ratio	Lower	Upper
134	100		
105	476.9	314.4	584.0

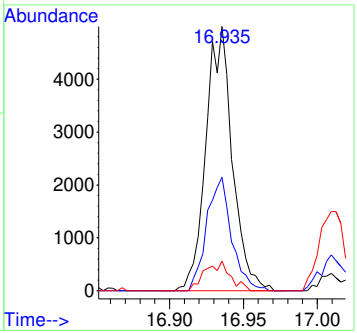


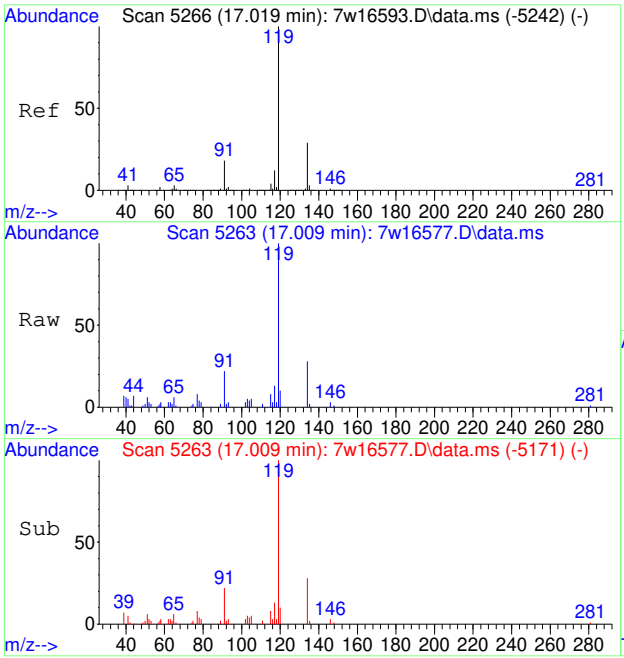


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6206

Ion	Ratio	Lower	Upper
105	100		
120	40.4	31.9	59.2
91	10.7	7.3	13.5

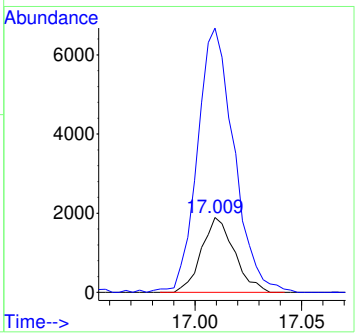


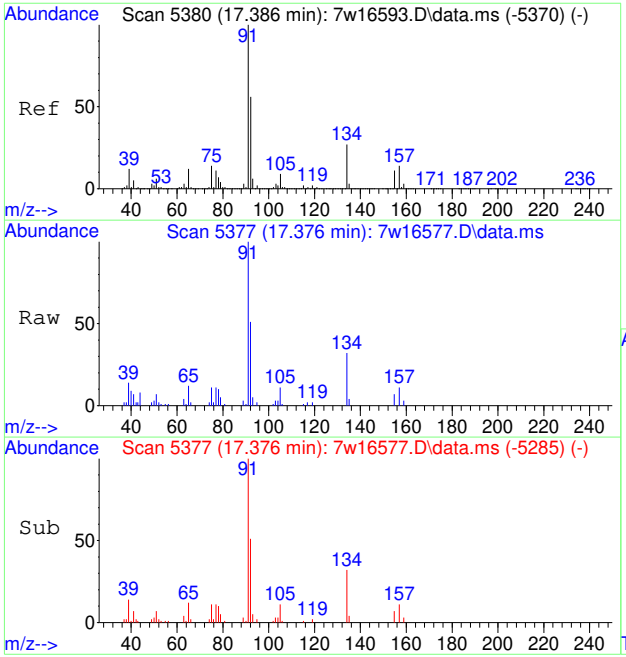


#103
P-ISOPROPYLTOLUENE
Concen: 0.10 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2027

Ion	Ratio	Lower	Upper
134	100		
119	394.0	253.7	471.3

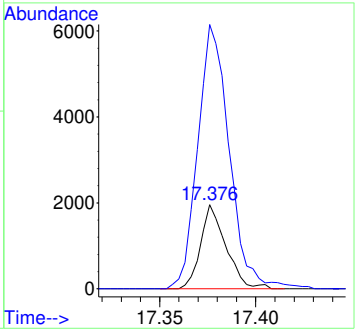


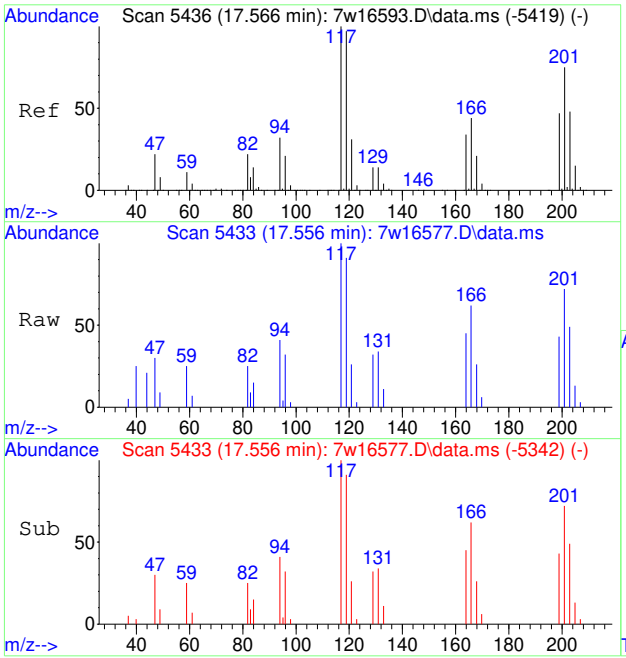


#104
N-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1794

Ion	Ratio	Lower	Upper
134	100		
91	392.4	231.1	429.1

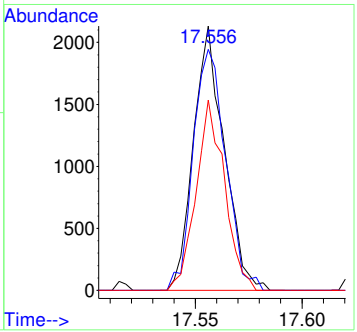


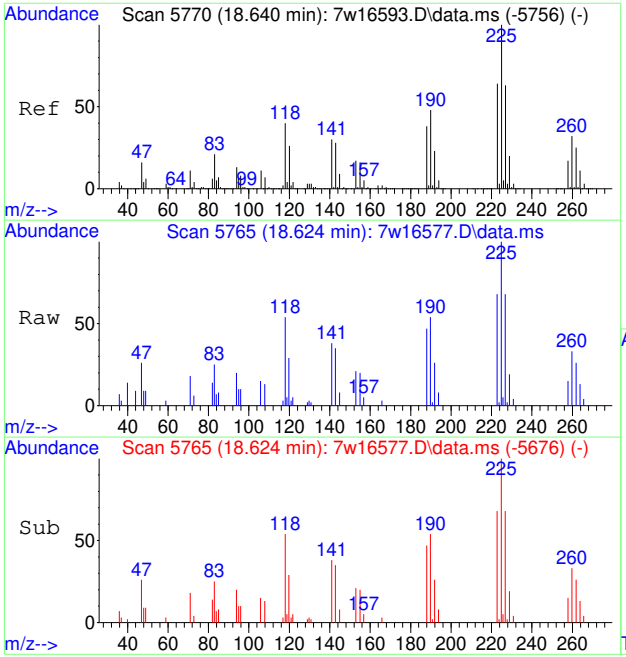


#105
HEXACHLOROETHANE
Concen: 0.09 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2143

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	66.7	45.9	85.3

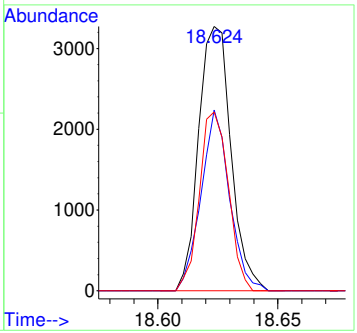


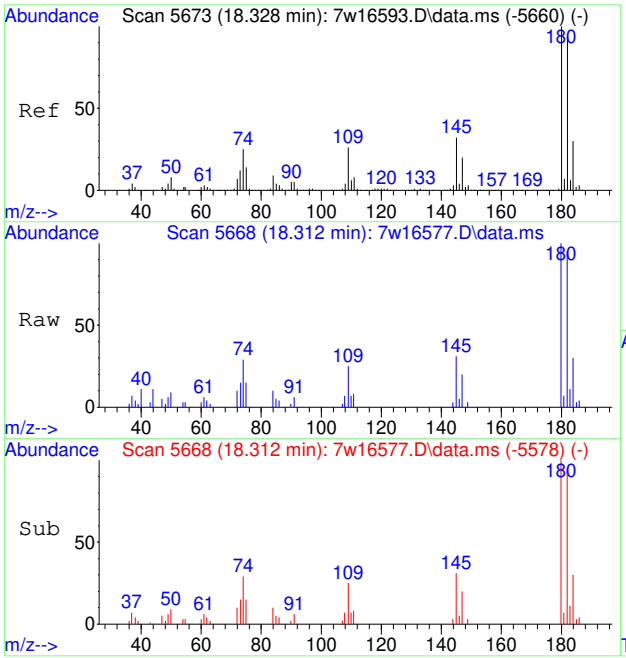


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.624 min Scan# 5765
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:225 Resp: 3071

Ion	Ratio	Lower	Upper
225	100		
227	60.4	44.4	82.5
223	60.5	44.7	83.1

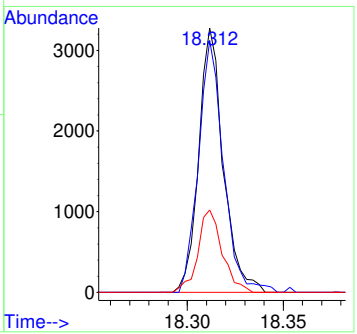


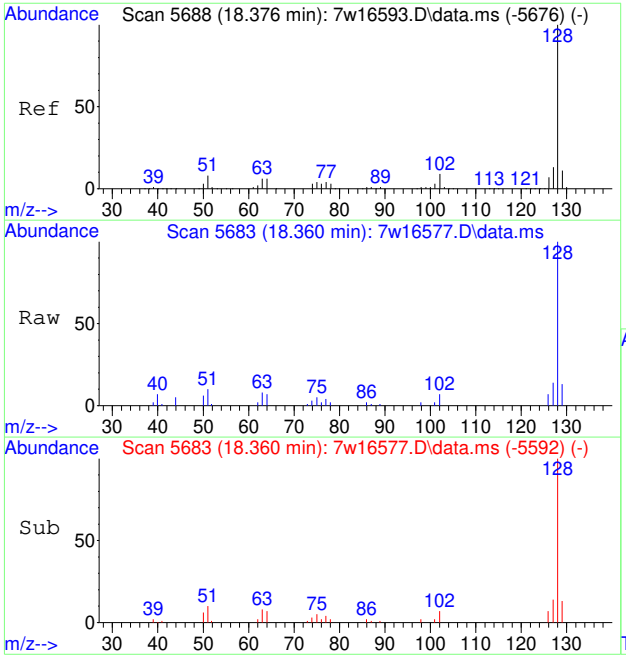


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.08 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:180 Resp: 2908

Ion	Ratio	Lower	Upper
180	100		
182	97.8	66.8	124.0
145	31.0	23.1	42.9

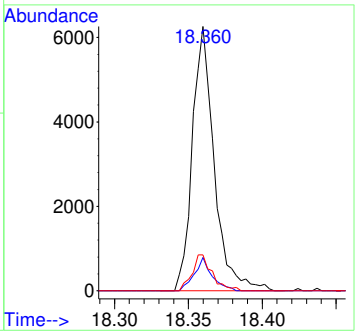




#108
NAPHTHALENE
Concen: 0.08 PPBV
RT: 18.360 min Scan# 5683
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:128 Resp: 6418

Ion	Ratio	Lower	Upper
128	100		
129	10.1	7.3	13.7
127	12.5	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16577.D
Injection Time: 08/07/25 04:38

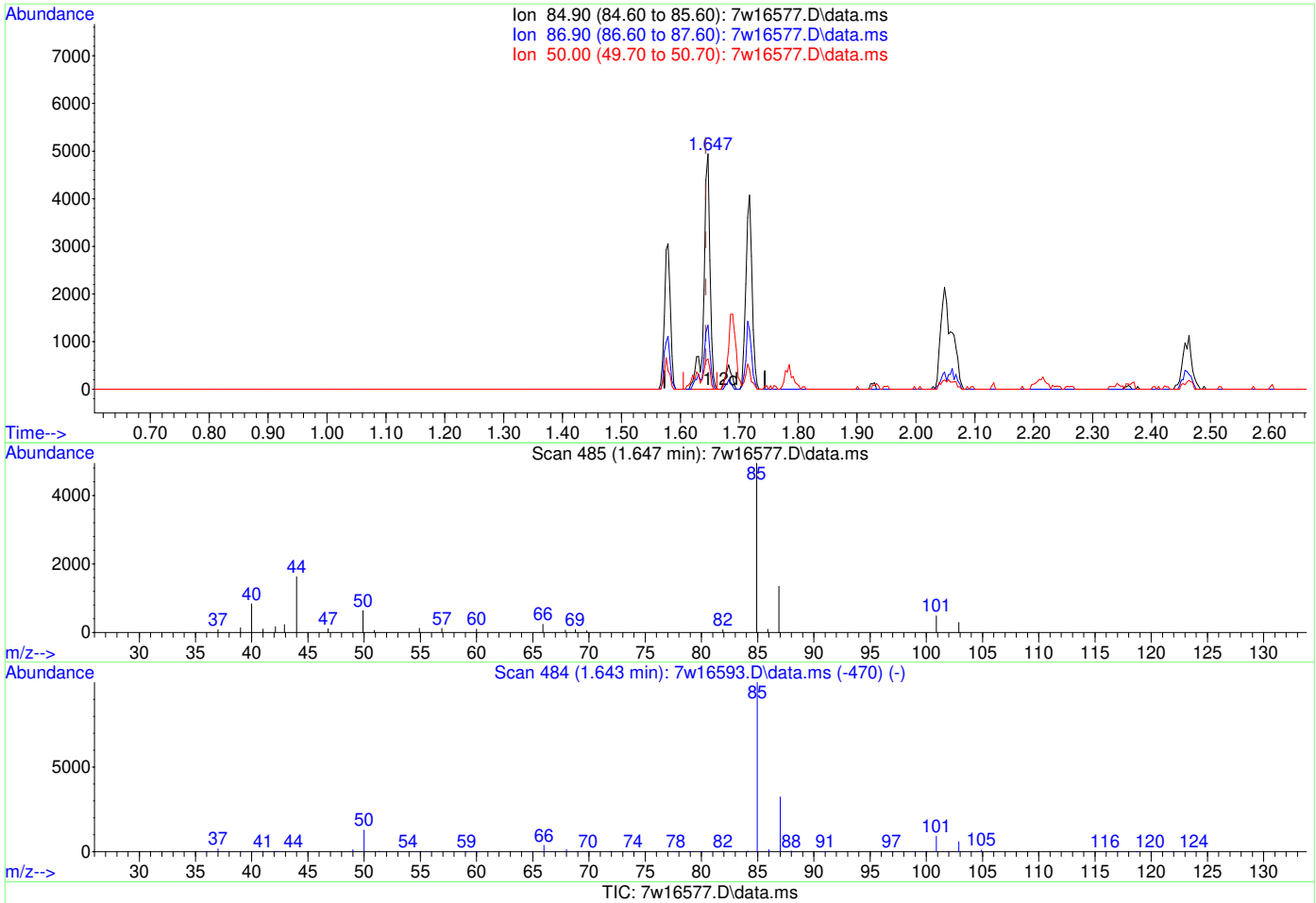
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.11PPBV

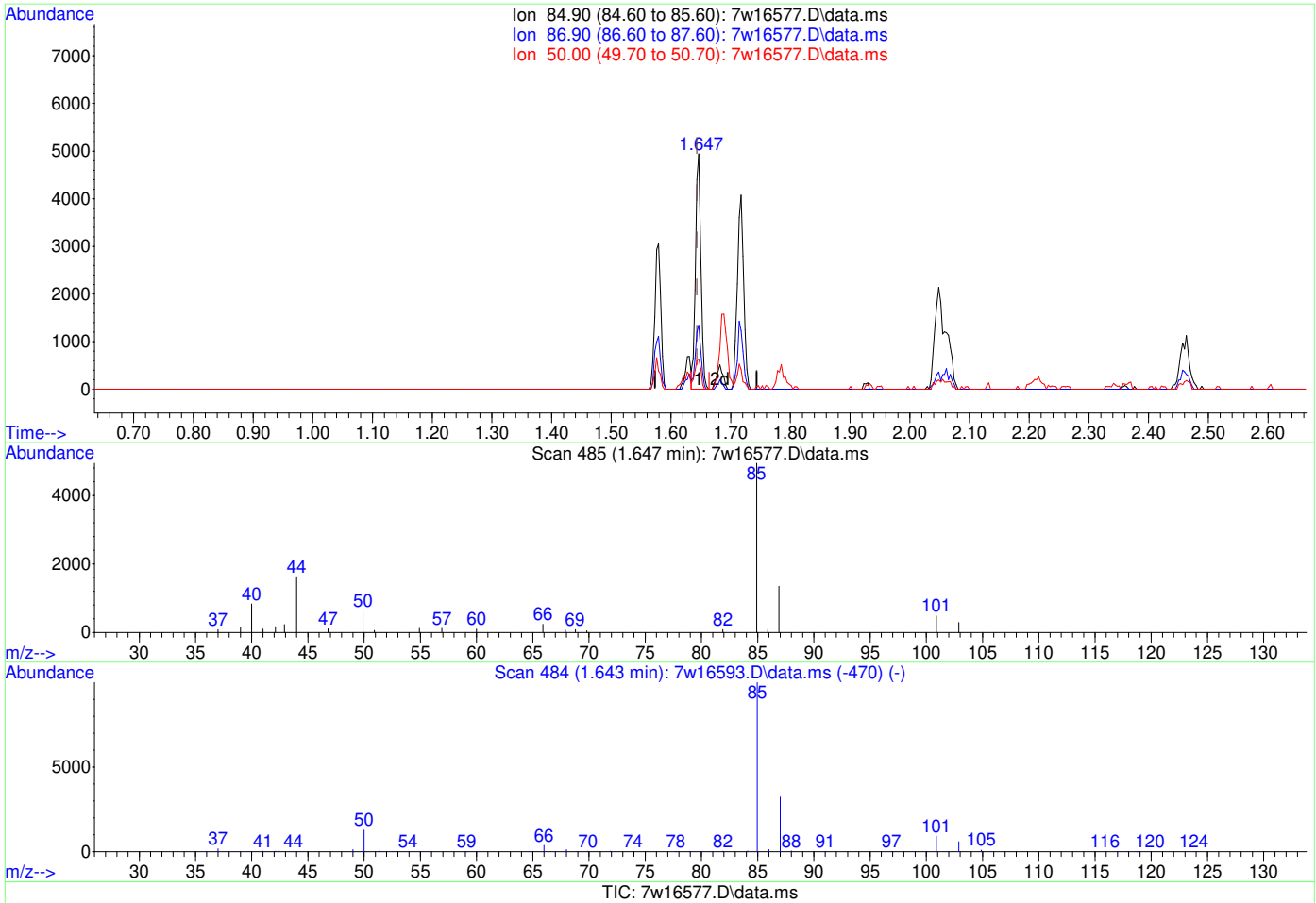
response 3582

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	30.29
50.00	17.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.09PPBV m

response 3122

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.75
50.00	17.30	24.76#
0.00	0.00	0.00

7W16577.D edits: DICHLORODIFLUOROMETHANE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114690	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	581918	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	540272	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114690	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	425835	9.69	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	2657	0.18	PPBV		86
3) FREON 152A	1.605	65	1240	0.18	PPBV		85
4) CHLORODIFLUOROMETHANE	1.618	67	552	0.17	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	2985	0.19	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.644	85	5428m	0.16	PPBV		
7) PROPYLENE	1.627	41	1949	0.21	PPBV		93
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	5125	0.20	PPBV	#	88
9) FREON 114	1.714	85	5306	0.18	PPBV		85
10) CHLOROMETHANE	1.685	52	806	0.21	PPBV		85
11) VINYL CHLORIDE	1.746	62	2445	0.17	PPBV		96
12) 1,3-BUTADIENE	1.785	54	2011	0.18	PPBV	#	73
13) N-BUTANE	1.801	43	4132	0.22	PPBV	#	41
14) BROMOMETHANE	1.859	94	2032	0.19	PPBV		98
15) CHLOROETHANE	1.904	64	1408	0.19	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	4948	0.18	PPBV		95
17) ACETONITRILE	1.997	41	2687	0.23	PPBV		99
18) ACROLEIN	2.033	56	1361	0.22	PPBV		87
19) FREON 123	2.045	83	5339	0.19	PPBV		97
20) FREON 123A	2.065	117	3198	0.20	PPBV	#	51
21) TRICHLOROFLUOROMETHANE	2.126	101	5808	0.18	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	6133	0.23	PPBV		91
23) ACETONE	2.074	58	1566	0.22	PPBV		69
24) PENTANE	2.238	42	2893	0.21	PPBV	#	82
25) IODOMETHANE	2.303	142	5560	0.19	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.325	96	2379	0.20	PPBV	#	70
27) CARBON DISULFIDE	2.460	76	6298	0.18	PPBV	#	80
28) ETHANOL	1.933	45	1573	0.23	PPBV		95
29) BROMOETHENE	2.000	106	2033	0.18	PPBV		99
30) ACRYLONITRILE	2.213	52	2213	0.22	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	2222	0.20	PPBV	#	78
32) 3-CHLOROPROPENE	2.406	76	1202	0.19	PPBV		77
33) FREON 113	2.457	151	3430	0.19	PPBV		82
34) TRANS-1,2-DICHLOROETHENE	2.685	96	2282	0.18	PPBV	#	60
35) TERTIARY BUTYL ALCOHOL	2.345	59	5515	0.17	PPBV		97
36) METHYL TERTIARY BUTYL ...	2.798	73	6887	0.19	PPBV	#	88
37) TETRAHYDROFURAN	3.489	72	887	0.14	PPBV	#	49
38) HEXANE	3.238	57	4468	0.18	PPBV		87
39) VINYL ACETATE	2.830	86	581	0.16	PPBV	#	53
40) 1,1-DICHLOROETHANE	2.759	63	4599	0.18	PPBV		97
41) METHYL ETHYL KETONE	2.926	72	1205	0.18	PPBV	#	81
42) CIS-1,2-DICHLOROETHENE	3.113	96	2527	0.19	PPBV	#	78
43) DIISOPROPYL ETHER	3.248	59	1371	0.20	PPBV		89
44) ETHYL ACETATE	3.261	61	871	0.18	PPBV	#	77
45) METHYL ACRYLATE	3.238	55	5488	0.18	PPBV	#	96
46) CHLOROFORM	3.258	83	5027	0.19	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	5307	0.19	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	5006	0.18	PPBV		95
49) CARBON TETRACHLORIDE	4.232	117	4884	0.16	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 1,2-DICHLOROETHANE	3.660	62	3746	0.18 PPBV #	96
51) BENZENE	4.126	78	7569	0.19 PPBV	91
53) CYCLOHEXANE	4.338	84	3276	0.18 PPBV #	64
54) 2,3-DIMETHYLPENTANE	4.582	71	1571	0.17 PPBV #	52
55) TRICHLOROETHENE	5.010	95	3186	0.17 PPBV	84
56) 1,2-DICHLOROPROPANE	4.785	63	2832	0.17 PPBV	93
57) DIBROMOMETHANE	4.740	174	2923	0.19 PPBV	89
58) ETHYL ACRYLATE	4.907	55	6937	0.18 PPBV #	95
59) BROMODICHLOROMETHANE	4.959	83	5187	0.16 PPBV	92
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	15119	0.19 PPBV #	94
61) 1,4-DIOXANE	5.090	88	1375	0.15 PPBV #	1
62) HEPTANE	5.425	43	5077	0.19 PPBV	91
63) METHYL METHACRYLATE	5.328	69	2638	0.17 PPBV	84
64) METHYL ISOBUTYL KETONE	6.058	58	2634	0.17 PPBV #	88
65) CIS-1,3-DICHLOROPROPENE	5.936	75	4430	0.17 PPBV	99
66) TOLUENE	7.129	91	9065	0.19 PPBV	99
67) 1,3-DICHLOROPROPANE	7.187	76	4438	0.18 PPBV	98
68) TRANS-1,3-DICHLOROPROPENE	6.611	75	3506	0.14 PPBV	95
69) 1,1,2-TRICHLOROETHANE	6.766	83	2630	0.18 PPBV	94
70) 2-HEXANONE	7.724	58	3463	0.17 PPBV #	84
71) ETHYL METHACRYLATE	7.839	69	4472	0.17 PPBV #	87
72) TETRACHLOROETHENE	8.846	164	3315	0.19 PPBV	97
73) DIBROMOCHLOROMETHANE	7.656	129	4563	0.15 PPBV	96
74) 1,2-DIBROMOETHANE	7.994	107	4734	0.19 PPBV #	97
75) OCTANE	8.994	43	6956	0.19 PPBV	89
77) 1,1,1,2-TETRACHLOROETHANE	10.048	131	3463	0.16 PPBV	87
78) CHLOROBENZENE	10.045	112	7506	0.19 PPBV	87
79) ETHYLBENZENE	10.923	91	12148	0.19 PPBV	93
80) M,P-XYLENE	11.344	91	19306	0.37 PPBV	87
81) O-XYLENE	12.280	91	9544	0.19 PPBV	92
82) STYRENE	12.064	104	6329	0.16 PPBV #	90
83) NONANE	13.396	43	7642	0.20 PPBV	86
84) BROMOFORM	11.151	173	3912	0.15 PPBV	98
85) 1,1,2,2-TETRACHLOROETHANE	12.289	83	7071	0.19 PPBV	96
86) 1,2,3-TRICHLOROPROPANE	12.569	75	5376	0.19 PPBV #	99
88) ISOPROPYLBENZENE	13.791	120	3578	0.19 PPBV #	69
89) BROMOBENZENE	13.646	77	6796	0.19 PPBV	75
90) 2-CHLOROTOLUENE	14.781	126	2989	0.16 PPBV	99
91) N-PROPYLBENZENE	15.129	120	3735	0.18 PPBV	99
92) 4-ETHYLTOLUENE	15.572	105	13365	0.18 PPBV	96
93) 1,3,5-TRIMETHYLBENZENE	15.836	105	11247	0.18 PPBV #	89
94) ALPHA-METHYLSTYRENE	16.180	118	4973	0.15 PPBV	95
95) TERT-BUTYLBENZENE	16.498	134	2760	0.18 PPBV	91
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	11478	0.18 PPBV	98
97) BENZYL CHLORIDE	16.595	91	6914	0.13 PPBV #	90
98) M-DICHLOROBENZENE	16.569	146	7589	0.18 PPBV	96
99) P-DICHLOROBENZENE	16.665	146	7856	0.19 PPBV	96
100) O-DICHLOROBENZENE	16.987	146	7325	0.19 PPBV	96
101) SEC-BUTYLBENZENE	16.813	134	3439	0.19 PPBV	82
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	11073	0.18 PPBV	95
103) P-ISOPROPYLTOLUENE	17.009	134	3722	0.18 PPBV	95
104) N-BUTYLBENZENE	17.379	134	3557	0.18 PPBV	86
105) HEXACHLOROETHANE	17.559	117	3887	0.16 PPBV	97
106) HEXACHLOROBUTADIENE	18.630	225	5583	0.21 PPBV	98
107) 1,2,4-TRICHLOROBENZENE	18.315	180	5618	0.16 PPBV	98
108) NAPHTHALENE	18.363	128	11029	0.14 PPBV	99
110) TVHC as equiv Pentane	2.238	TIC	17908	0.28 PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

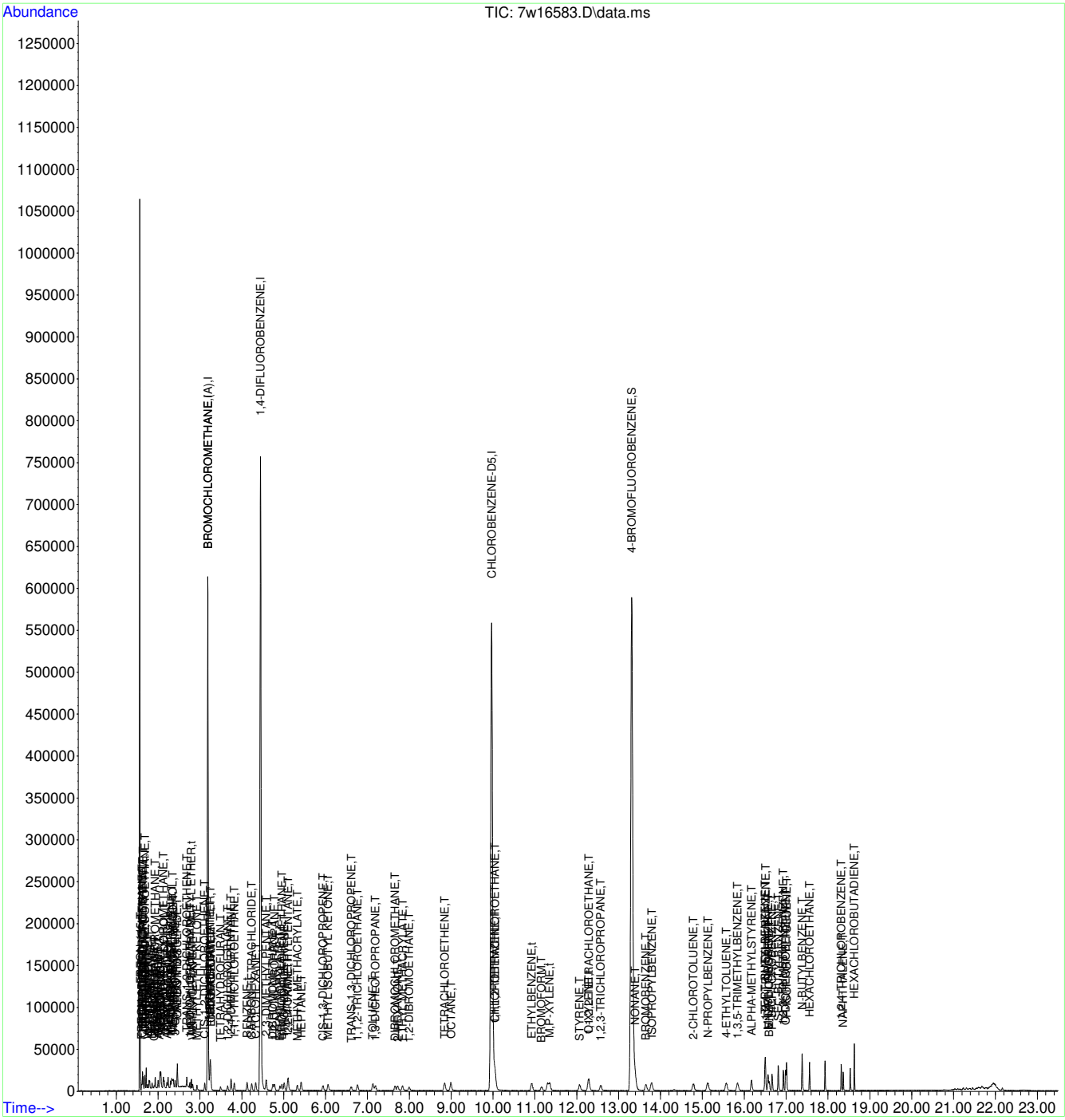
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

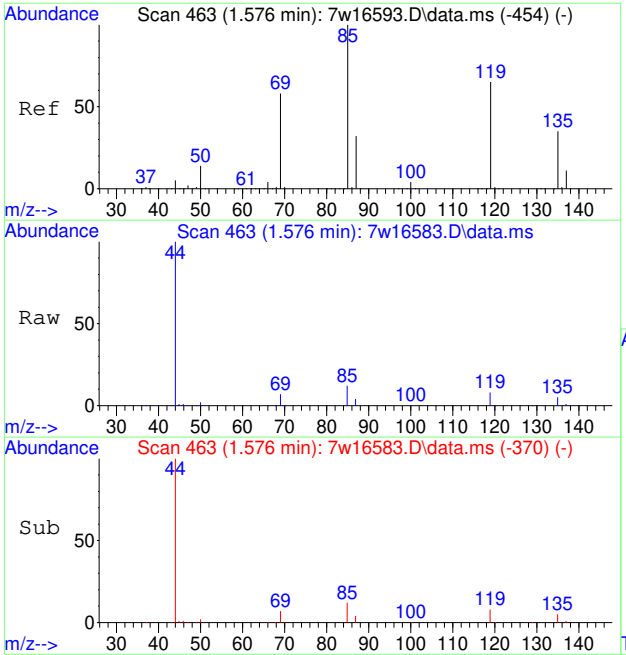
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

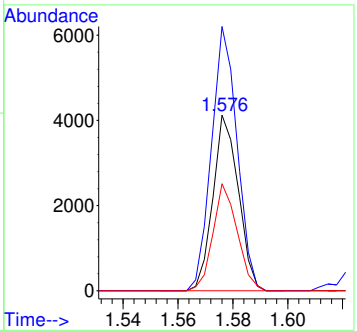


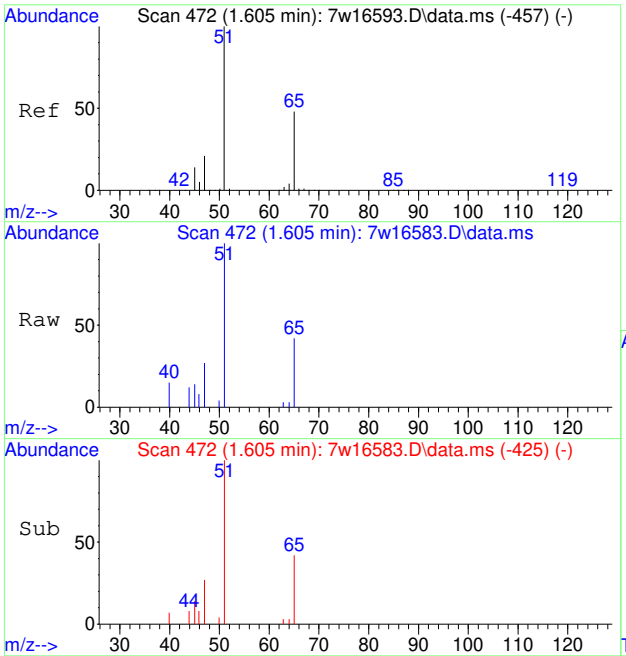


#2
FREON 115
Concen: 0.18 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:119 Resp: 2657

Ion	Ratio	Lower	Upper
119	100		
85	151.2	90.9	168.7
135	58.3	38.2	71.0

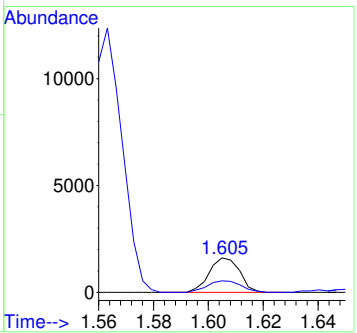


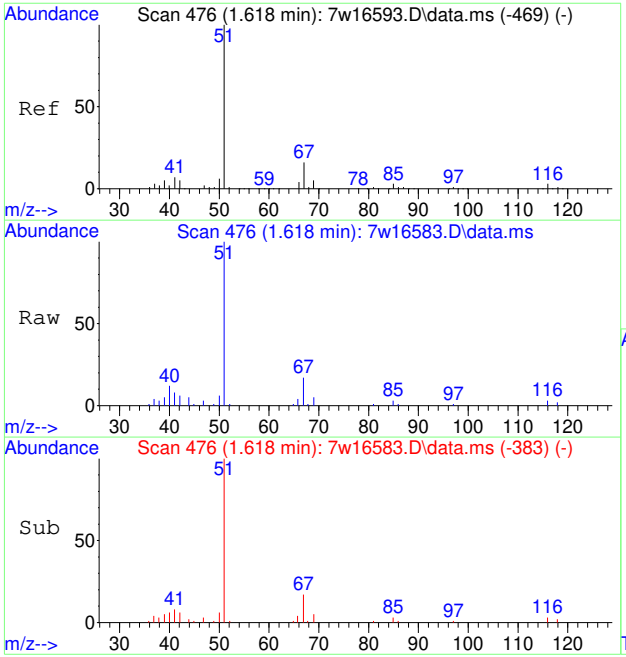


#3
FREON 152A
Concen: 0.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 1240

Ion	Ratio	Lower	Upper
65	100		
45	37.4	20.6	38.4

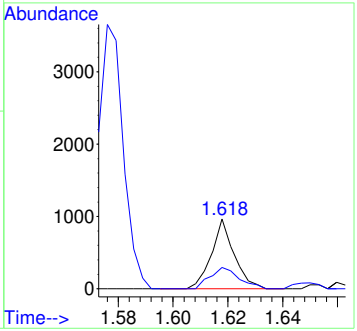


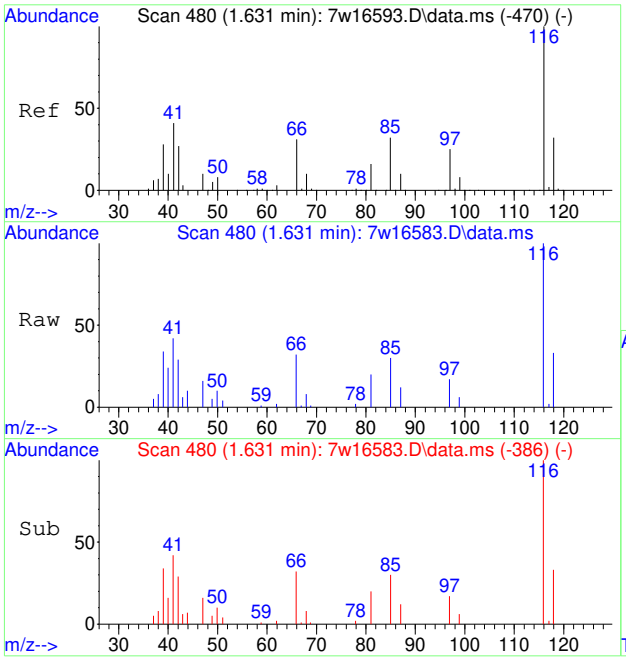


#4
CHLORODIFLUOROMETHANE
Concen: 0.17 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 552

Ion	Ratio	Lower	Upper
67	100		
69	39.3	25.4	47.2

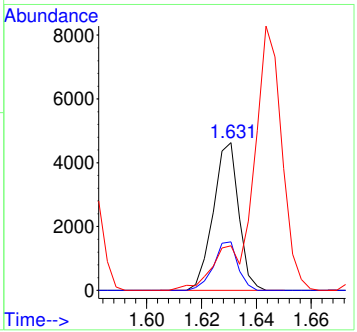


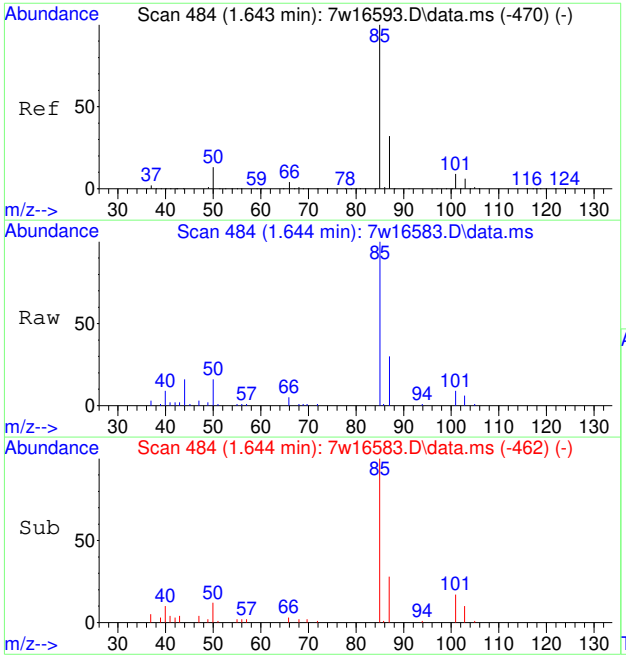


#5
CHLOROTRIFLUOROETHENE
Concen: 0.19 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:116 Resp: 2985

Ion	Ratio	Lower	Upper
116	100		
118	31.6	22.7	42.1
85	215.0	194.7	361.7

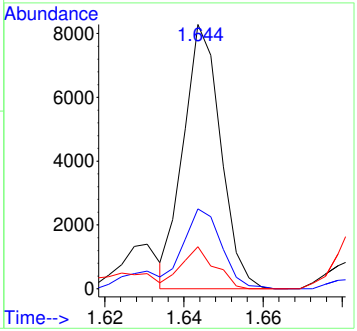


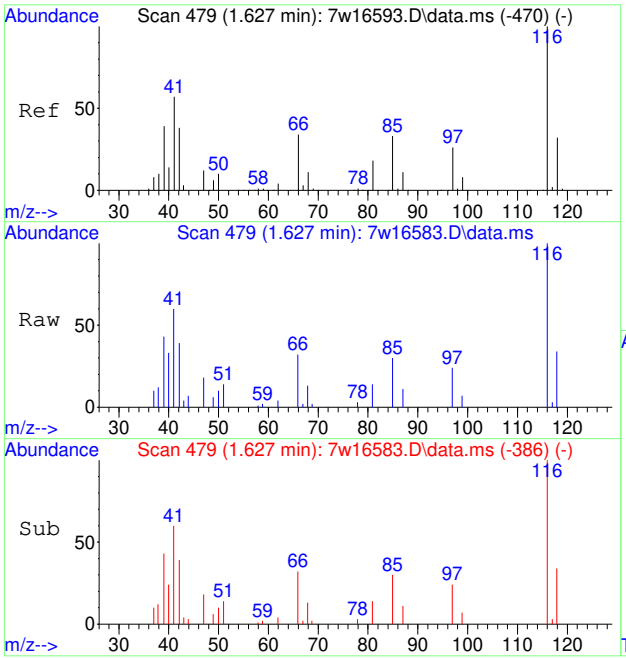


#6
DICHLORODIFLUOROMETHANE
Concen: 0.16 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5428

Ion	Ratio	Lower	Upper
85	100		
87	37.7	23.1	42.9
50	25.0	12.1	22.5#

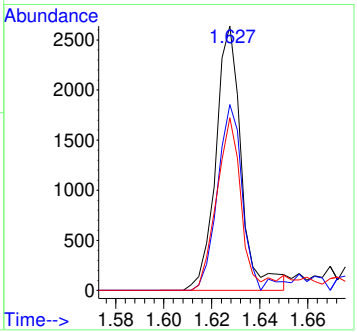


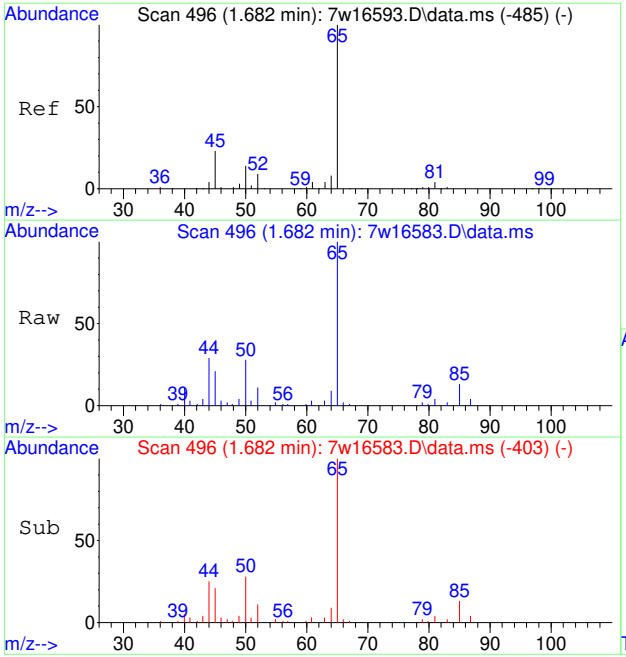


#7
PROPYLENE
Concen: 0.21 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 1949

Ion	Ratio	Lower	Upper
41	100		
39	69.6	51.0	94.8
42	74.5	46.6	86.6

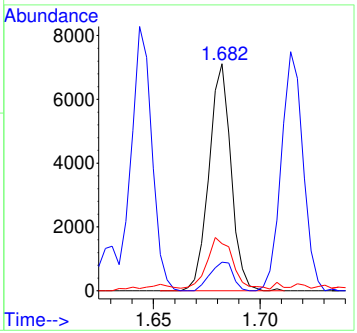


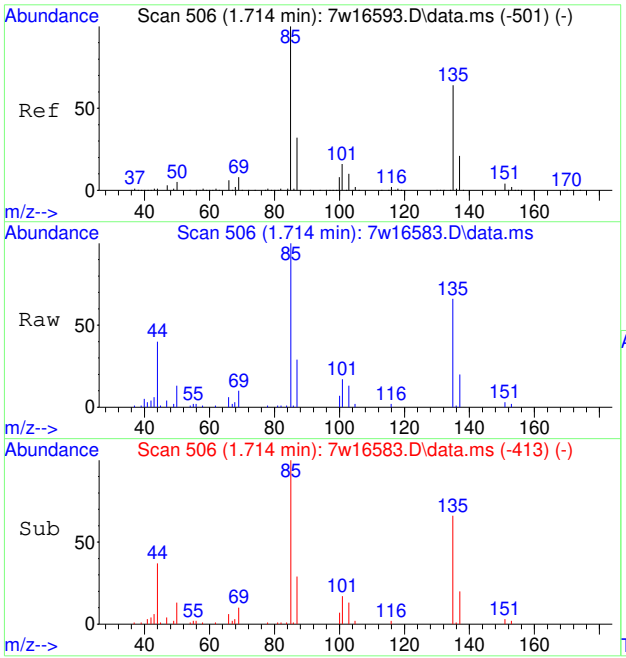


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.20 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 5125

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	33.1	17.0	31.6#

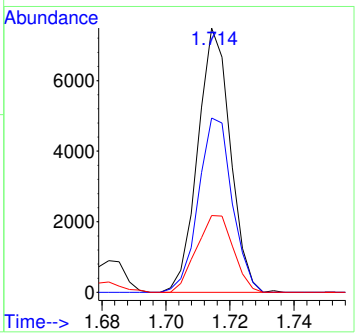


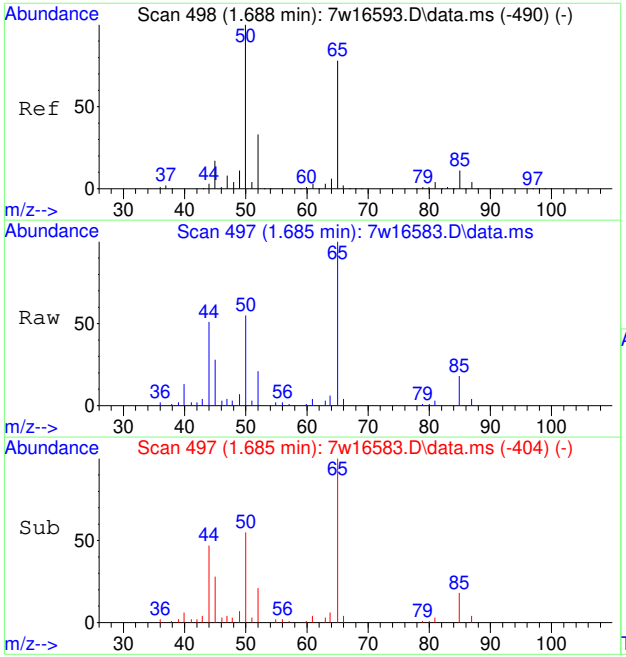


#9
FREON 114
Concen: 0.18 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5306

Ion	Ratio	Lower	Upper
85	100		
135	68.3	61.3	113.9
87	32.8	23.2	43.0

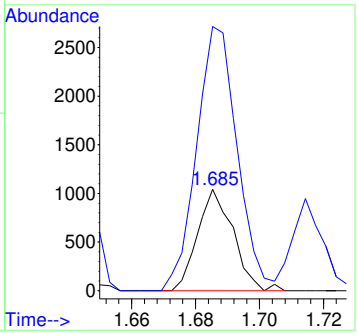


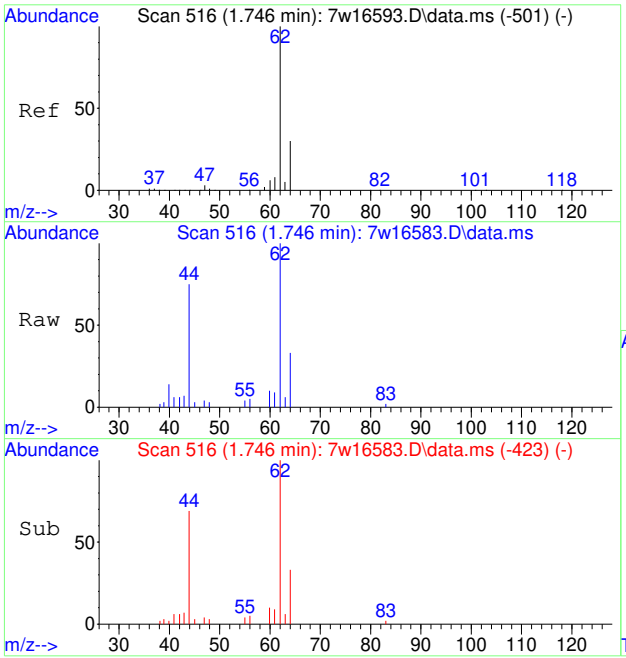


#10
CHLOROMETHANE
Concen: 0.21 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 806

Ion	Ratio	Lower	Upper
52	100		
50	294.8	227.6	422.6

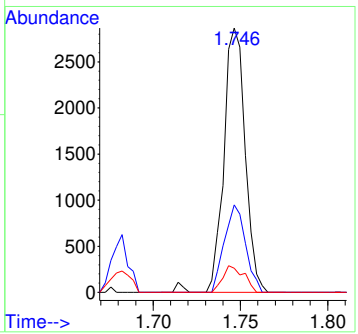


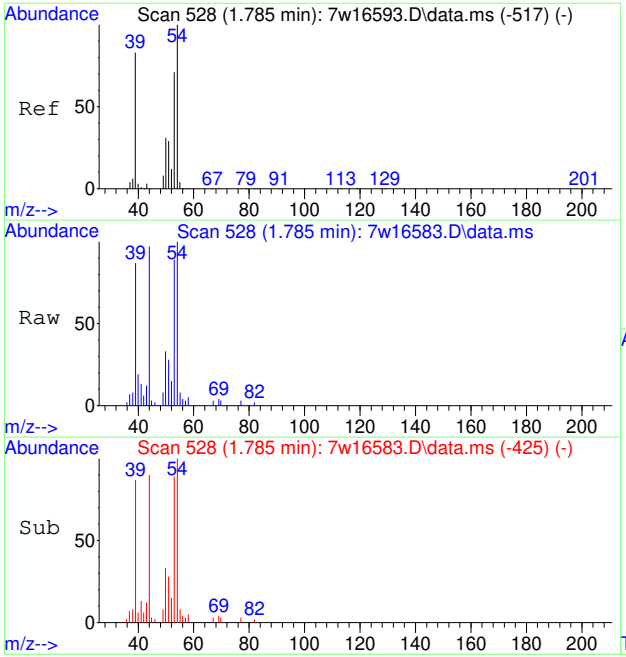


#11
VINYL CHLORIDE
Concen: 0.17 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 2445

Ion	Ratio	Lower	Upper
62	100		
64	32.8	21.6	40.2
61	9.9	5.7	10.7

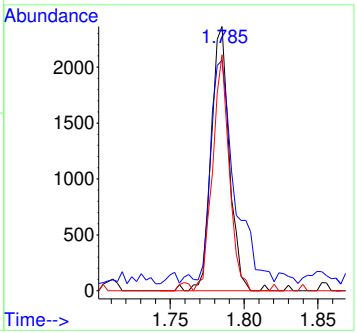


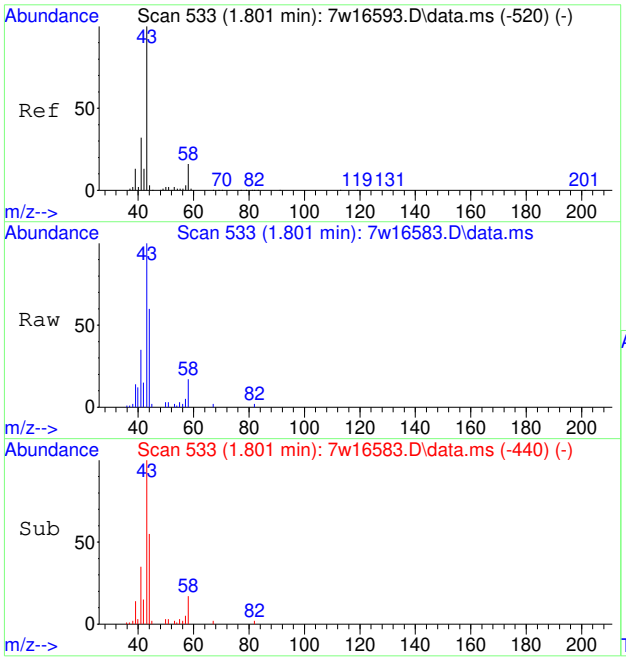


#12
1,3-BUTADIENE
Concen: 0.18 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 54 Resp: 2011

Ion	Ratio	Lower	Upper
54	100		
39	113.5	125.6	185.6#
53	83.8	40.7	100.7

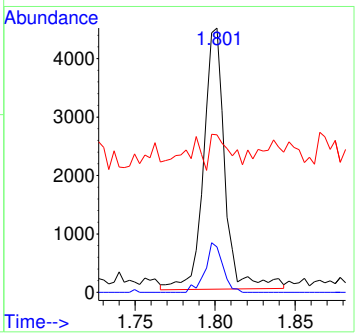


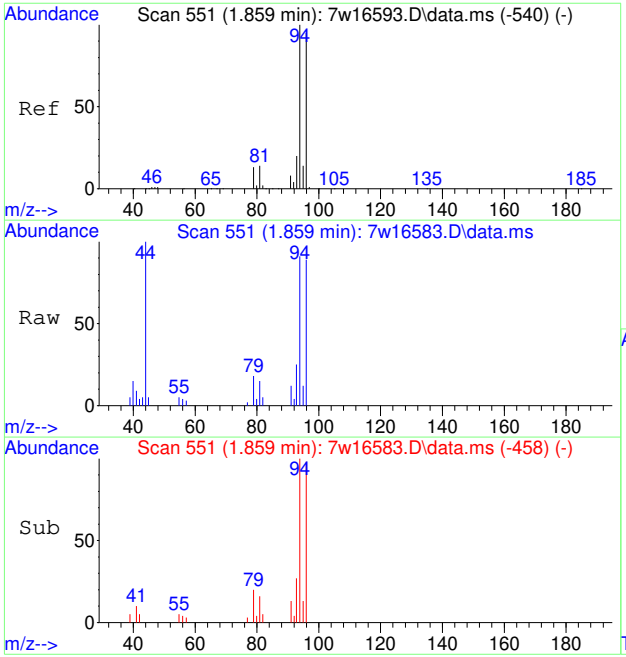


#13
N-BUTANE
Concen: 0.22 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 4132

Ion	Ratio	Lower	Upper
43	100		
58	15.6	10.4	19.4
44	88.8	3.0	5.6#

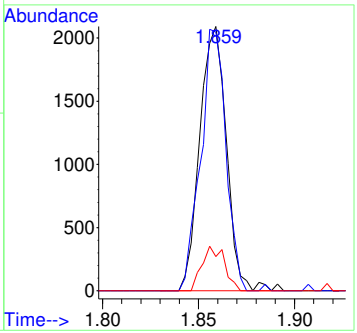


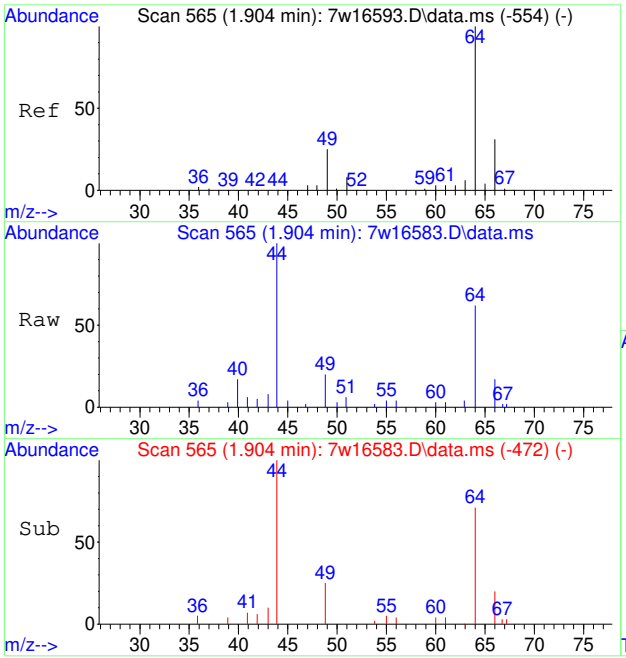


#14
BROMOMETHANE
Concen: 0.19 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 94 Resp: 2032

Ion	Ratio	Lower	Upper
94	100		
96	93.0	63.6	118.0
95	14.1	10.0	18.6

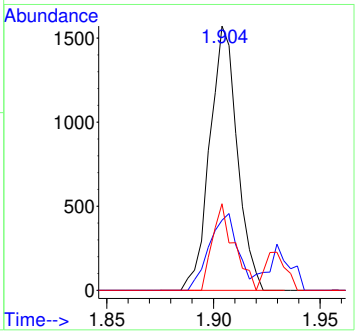


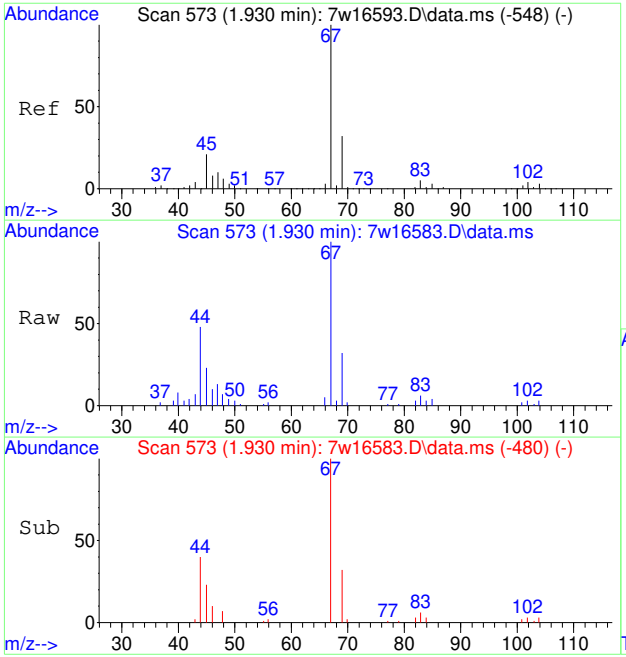


#15
CHLOROETHANE
Concen: 0.19 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 64 Resp: 1408

Ion	Ratio	Lower	Upper
64	100		
66	31.4	23.0	42.6
49	26.1	21.5	39.9

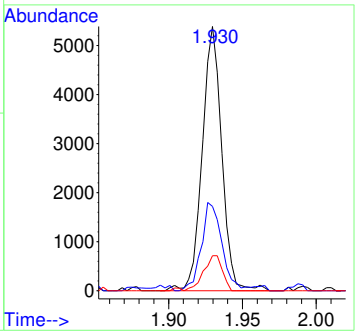


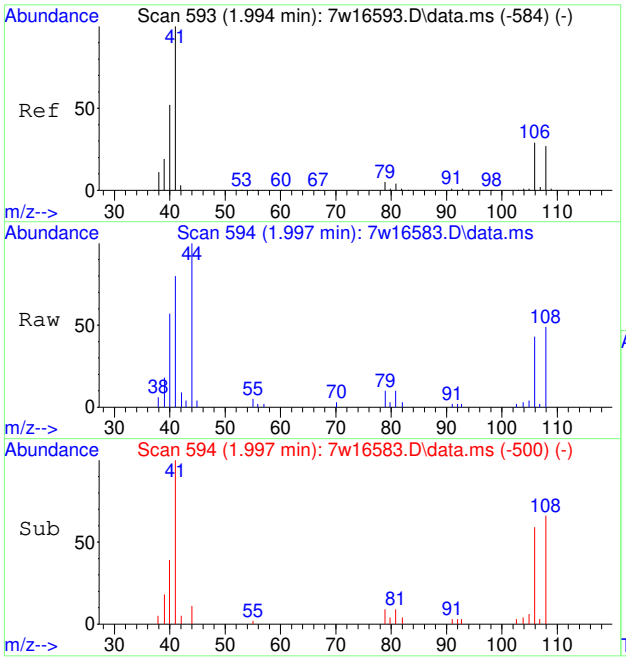


#16
DICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 4948

Ion	Ratio	Lower	Upper
67	100		
69	36.5	23.2	43.0
47	13.1	9.6	17.8

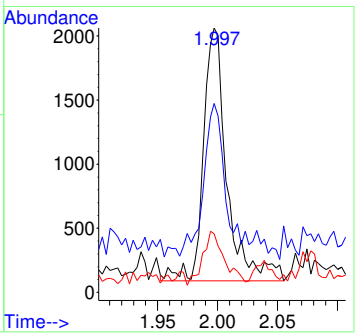


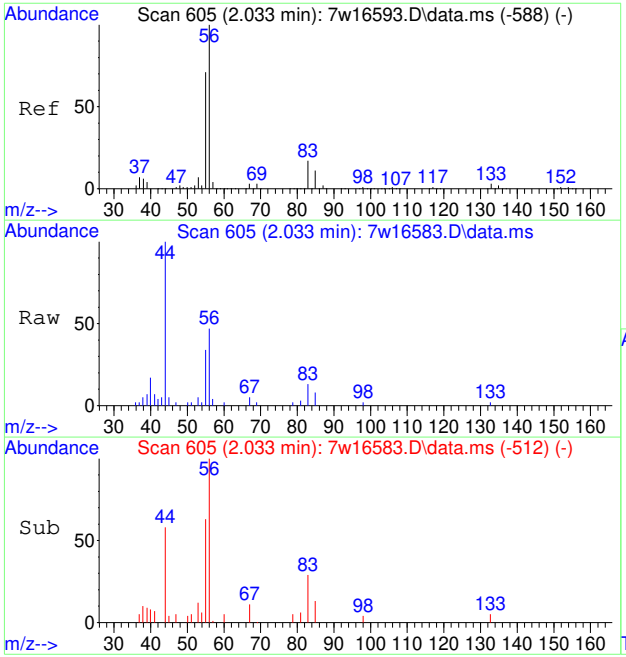


#17
ACETONITRILE
Concen: 0.23 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 2687

Ion	Ratio	Lower	Upper
41	100		
40	55.7	38.4	71.4
39	20.2	14.5	26.9

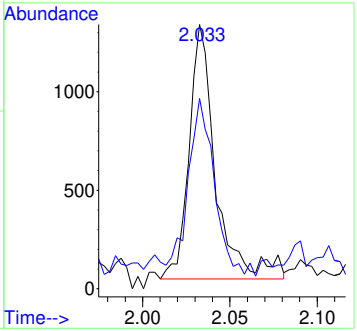


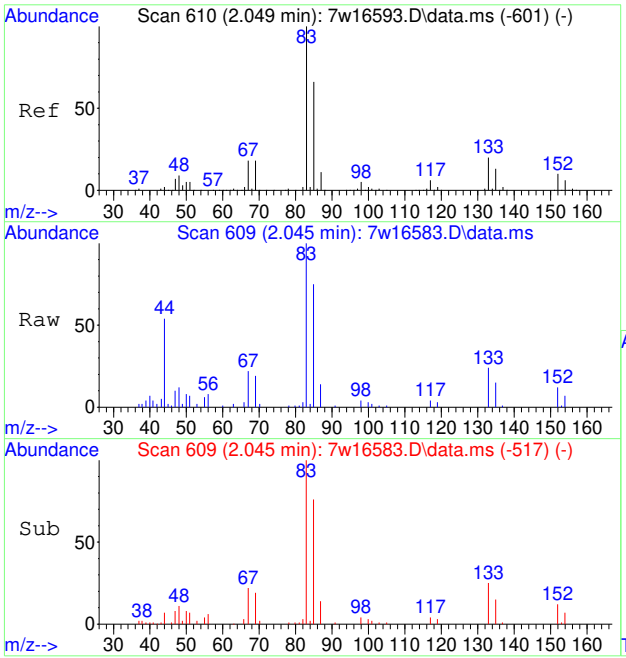


#18
ACROLEIN
Concen: 0.22 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 56 Resp: 1361

Ion	Ratio	Lower	Upper
56	100		
55	62.1	51.2	95.2

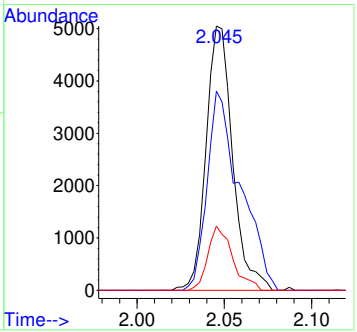


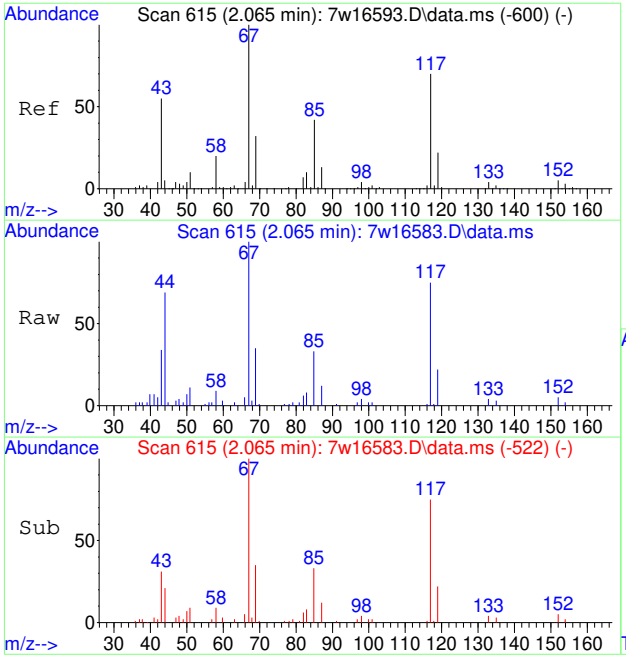


#19
FREON 123
Concen: 0.19 PPBV
RT: 2.045 min Scan# 609
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5339

Ion	Ratio	Lower	Upper
83	100		
85	94.1	65.7	121.9
133	22.7	19.9	36.9

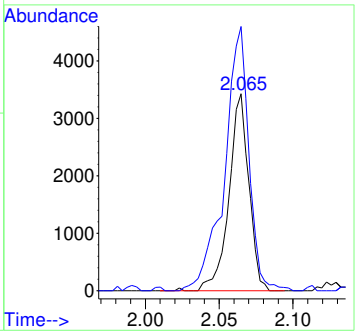


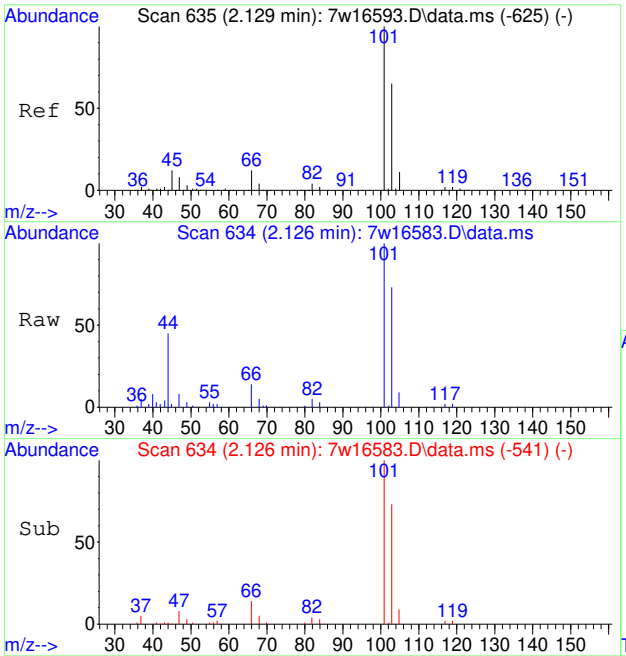


#20
FREON 123A
Concen: 0.20 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3198

Ion	Ratio	Lower	Upper
117	100		
67	164.6	78.8	146.4#

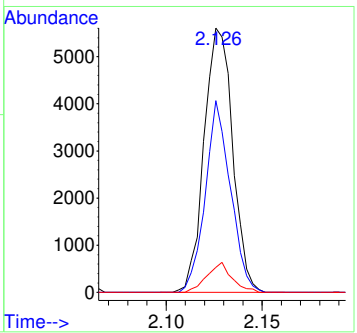


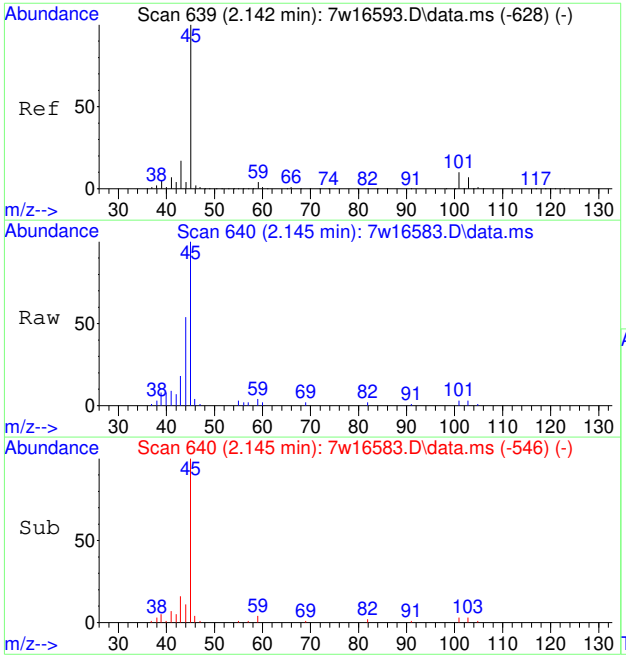


#21
TRICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:101 Resp: 5808

Ion	Ratio	Lower	Upper
101	100		
103	63.9	44.3	82.3
105	9.9	7.3	13.7

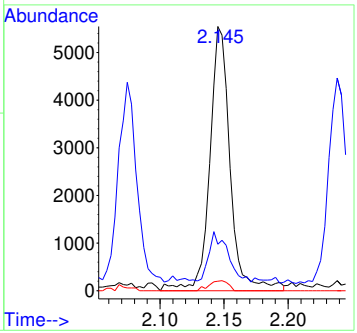


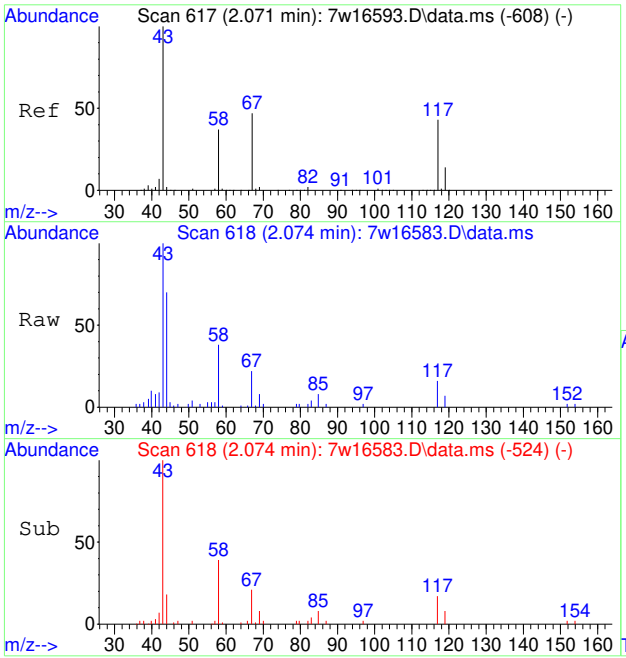


#22
ISOPROPYL ALCOHOL
Concen: 0.23 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 6133

Ion	Ratio	Lower	Upper
45	100		
43	19.2	17.1	31.9
59	3.7	3.1	5.8

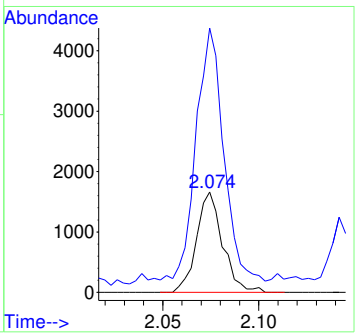


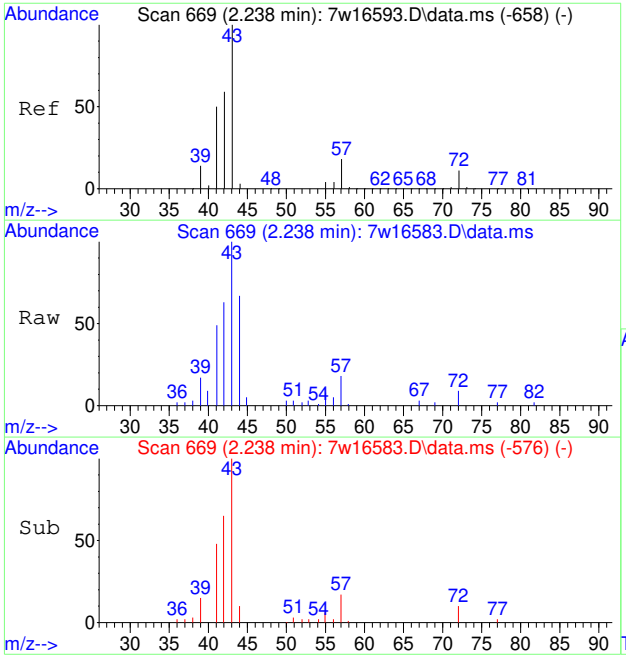


#23
ACETONE
Concen: 0.22 PPBV
RT: 2.074 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 1566

Ion	Ratio	Lower	Upper
58	100		
43	294.4	254.0	471.6

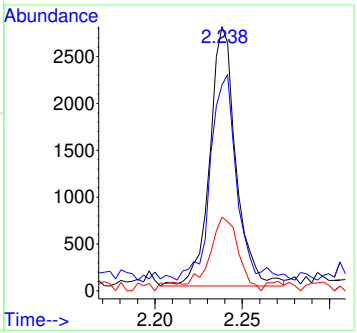


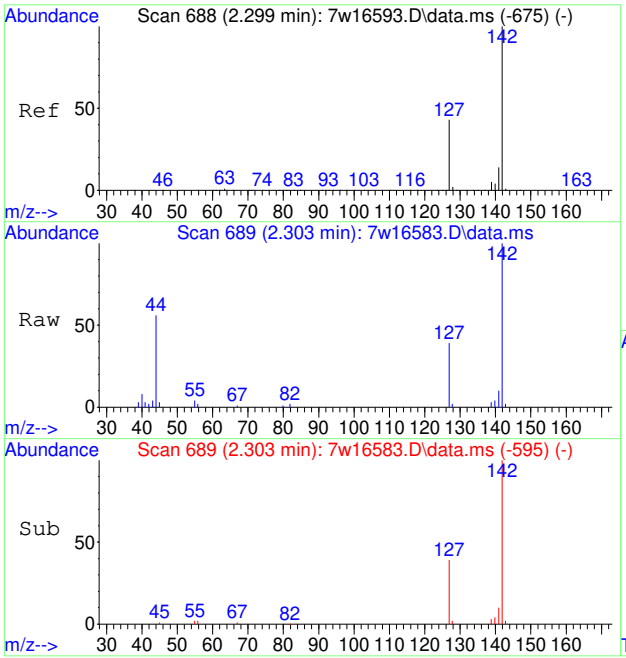


#24
PENTANE
Concen: 0.21 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 42 Resp: 2893

Ion	Ratio	Lower	Upper
42	100		
41	80.3	69.2	128.6
57	35.3	18.6	34.6#

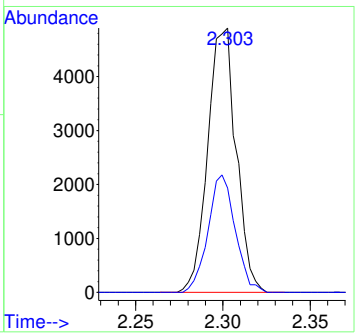


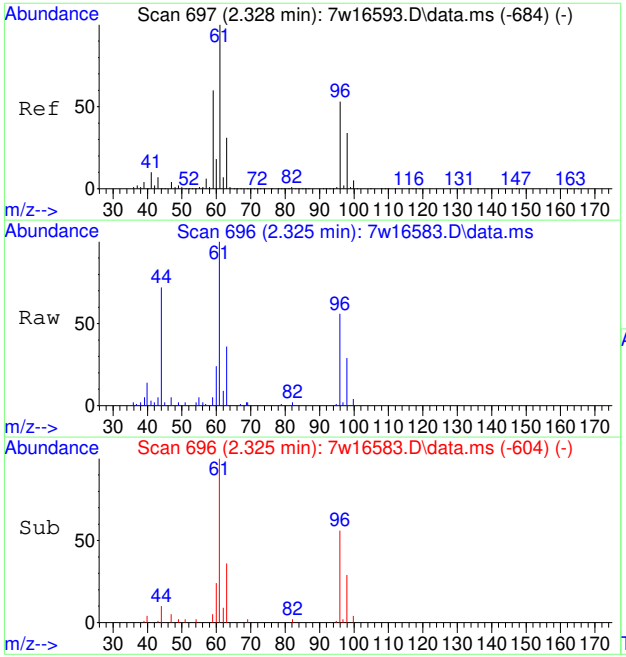


#25
IODOMETHANE
Concen: 0.19 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:142 Resp: 5560

Ion	Ratio	Lower	Upper
142	100		
127	42.5	32.1	59.7

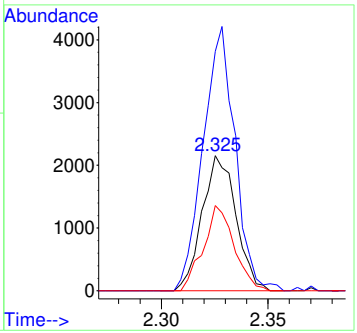


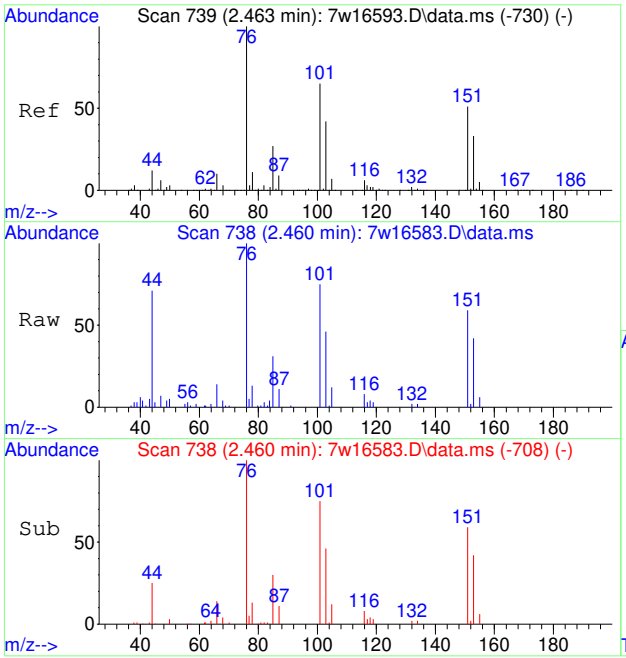


#26
1,1-DICHLOROETHYLENE
Concen: 0.20 PPBV
RT: 2.325 min Scan# 696
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2379

Ion	Ratio	Lower	Upper
96	100		
61	184.2	98.3	182.5#
63	57.3	33.2	61.7

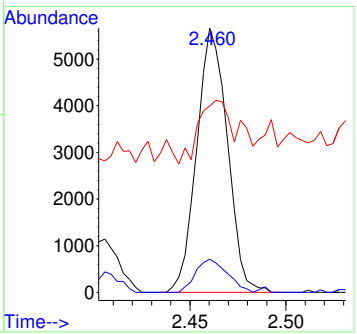


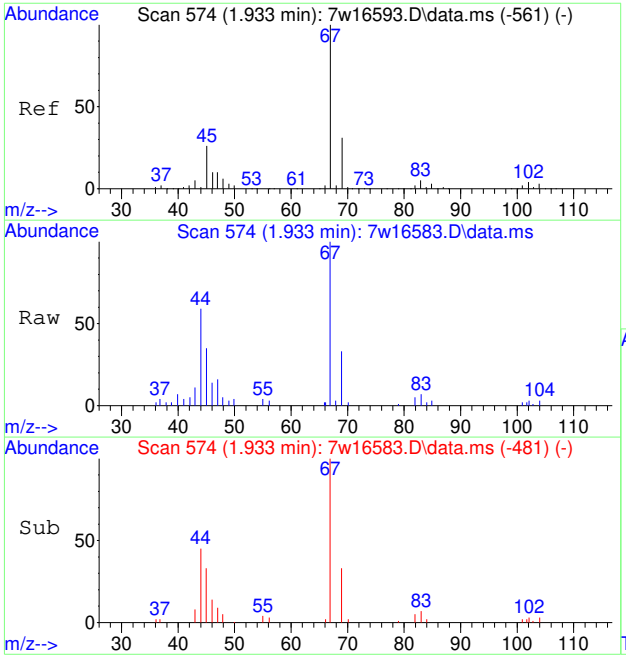


#27
CARBON DISULFIDE
Concen: 0.18 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 6298

Ion	Ratio	Lower	Upper
76	100		
78	13.5	8.3	15.3
44	32.0	13.0	24.1#

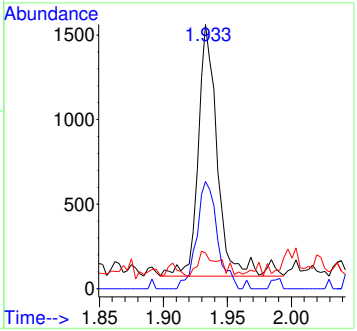


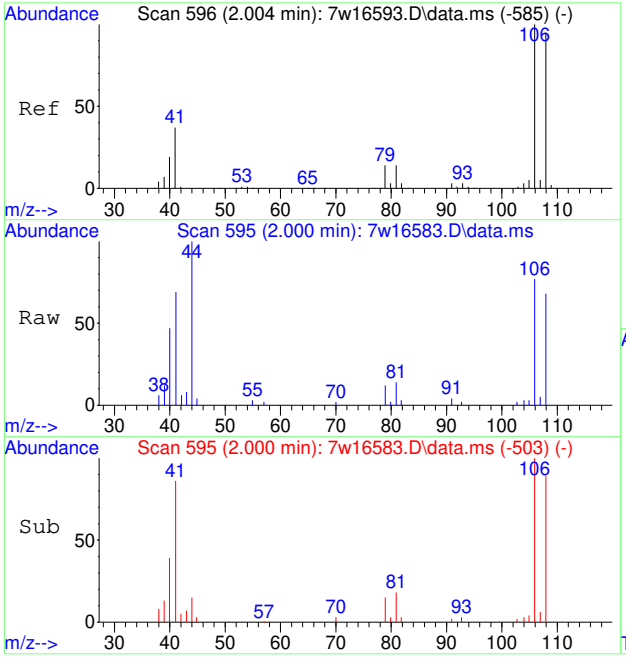


#28
ETHANOL
Concen: 0.23 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 1573

Ion	Ratio	Lower	Upper
45	100		
46	45.7	29.7	55.1
42	11.8	7.3	13.5

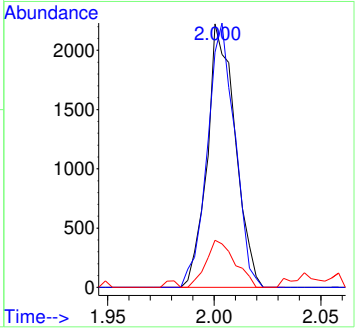


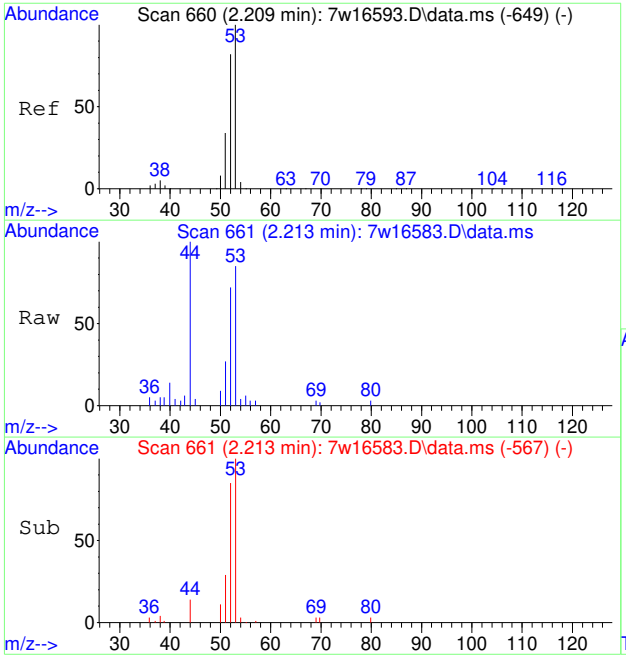


#29
BROMOETHENE
Concen: 0.18 PPBV
RT: 2.000 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:106 Resp: 2033

Ion	Ratio	Lower	Upper
106	100		
108	98.3	68.3	126.8
81	19.5	14.7	27.3

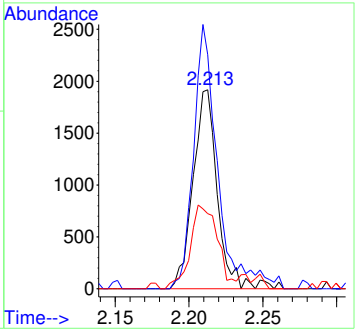


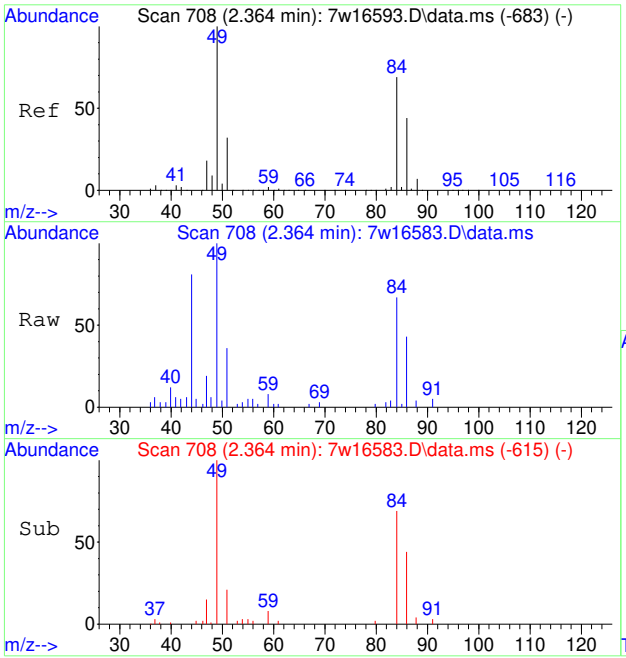


#30
ACRYLONITRILE
Concen: 0.22 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 2213

Ion	Ratio	Lower	Upper
52	100		
53	130.7	86.3	160.3
51	48.0	33.6	62.4

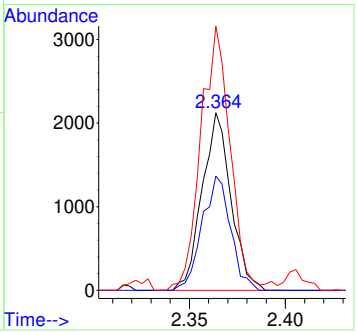


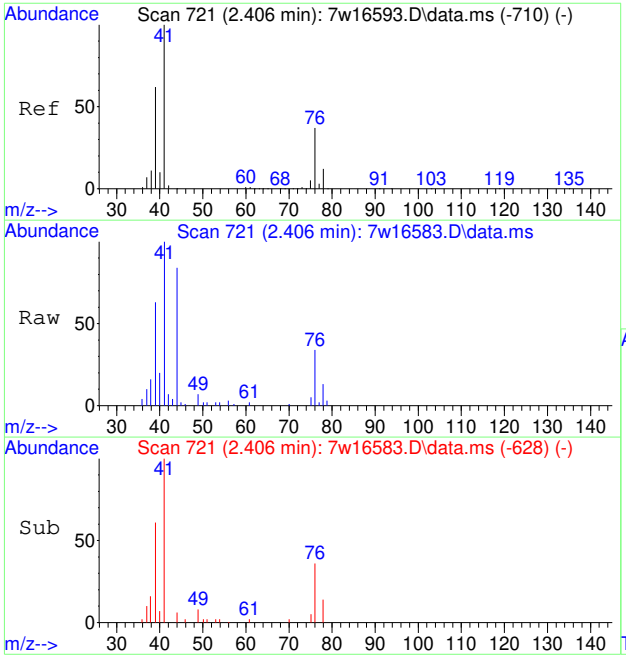


#31
METHYLENE CHLORIDE
Concen: 0.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 2222

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.9	83.5
49	150.6	79.7	148.1#

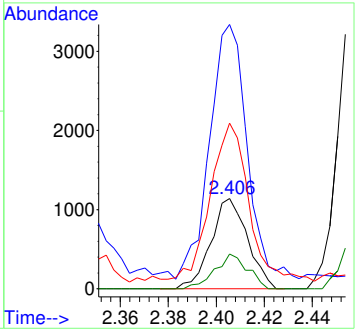


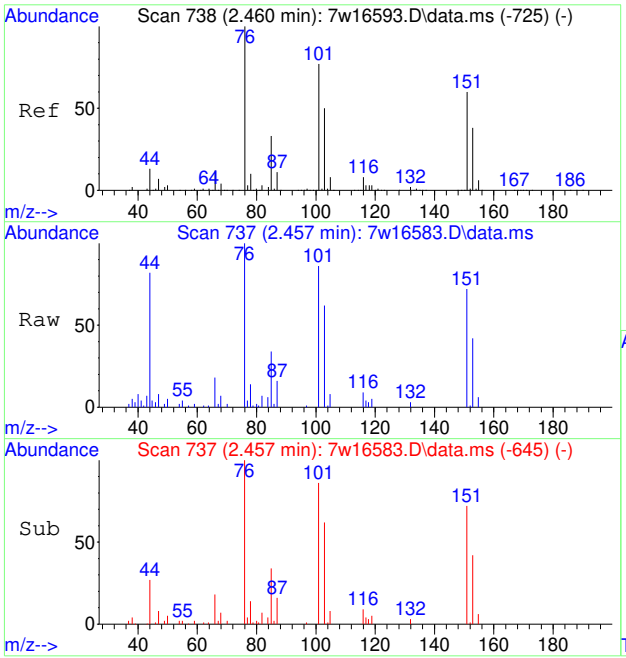


#32
3-CHLOROPROPENE
Concen: 0.19 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 1202

Ion	Ratio	Lower	Upper
76	100		
41	279.0	160.9	298.9
39	185.3	150.7	279.9
78	34.5	22.7	42.1

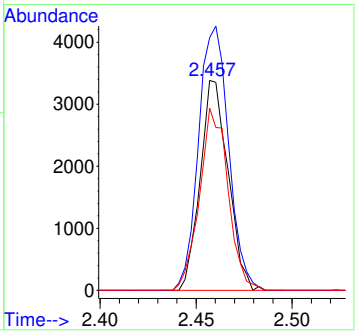


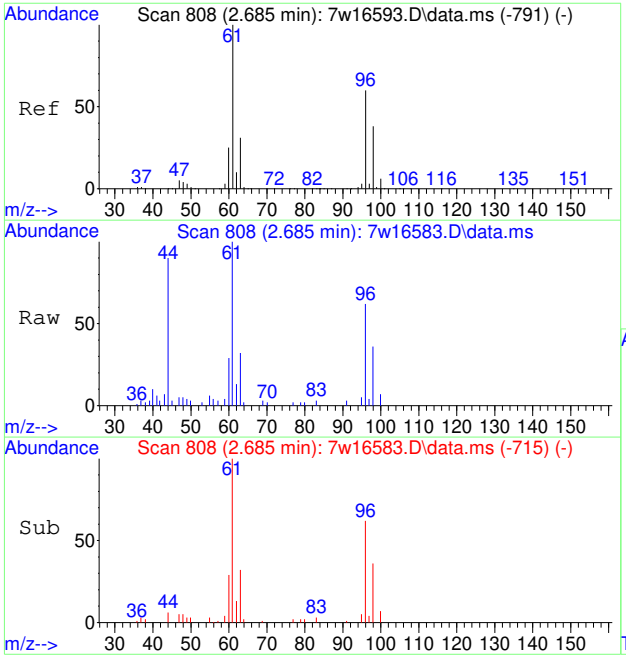


#33
FREON 113
Concen: 0.19 PPBV
RT: 2.457 min Scan# 737
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:151 Resp: 3430

Ion	Ratio	Lower	Upper
151	100		
101	135.4	81.1	150.7
103	88.3	51.4	95.4

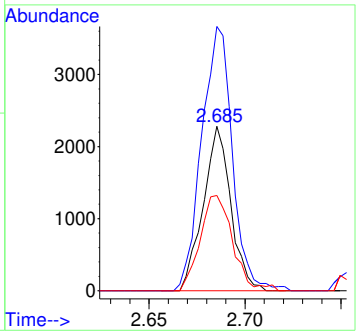


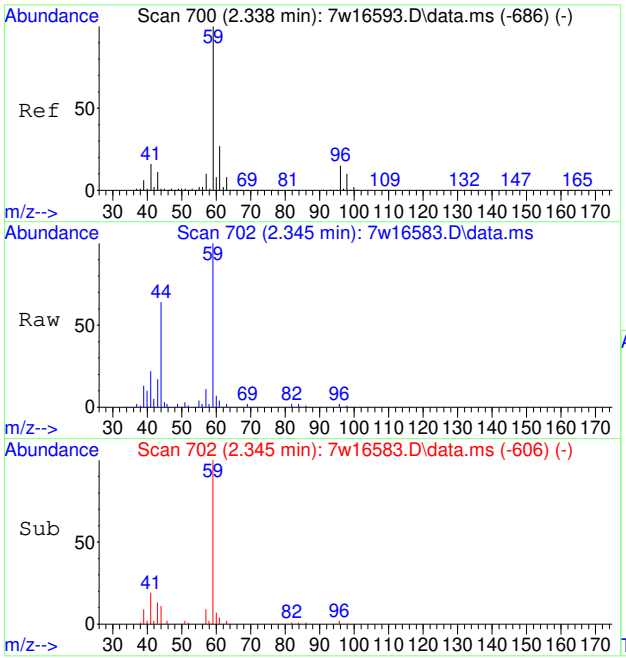


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.18 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2282

Ion	Ratio	Lower	Upper
96	100		
61	178.7	78.5	145.9#
98	68.1	46.5	86.3

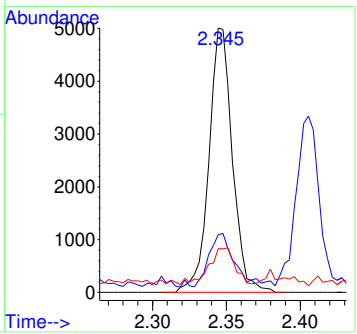


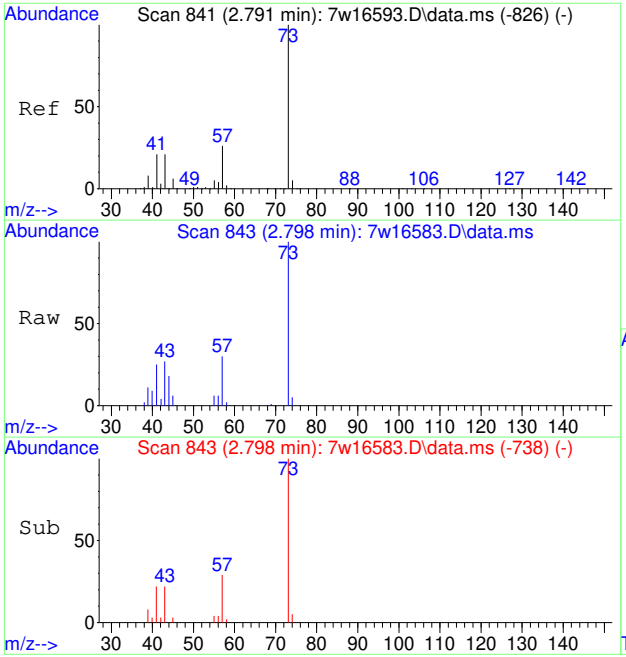


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.17 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 5515

Ion	Ratio	Lower	Upper
59	100		
41	22.6	15.3	28.5
43	15.4	12.3	22.9

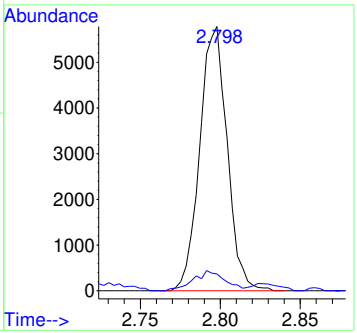


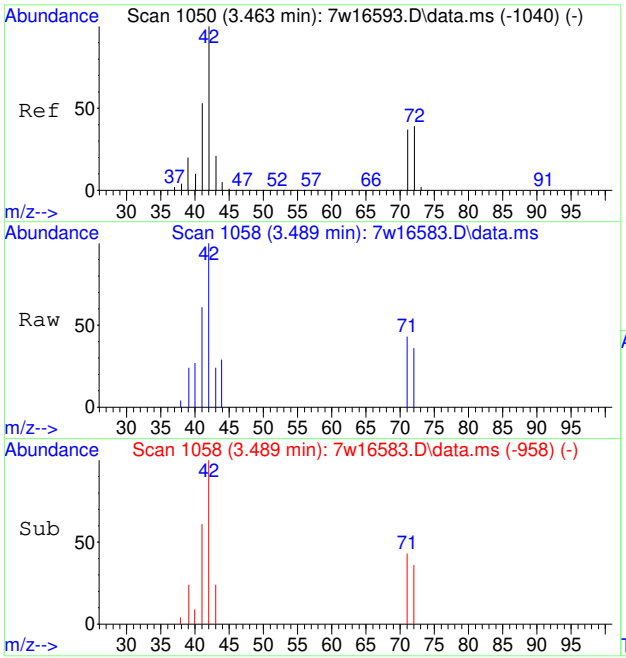


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.19 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 73 Resp: 6887

Ion	Ratio	Lower	Upper
73	100		
45	8.7	3.4	6.4#

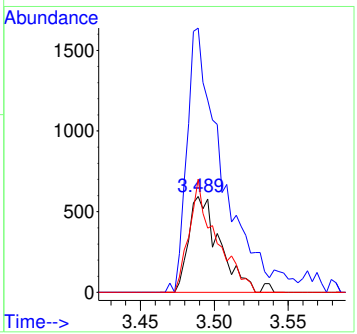


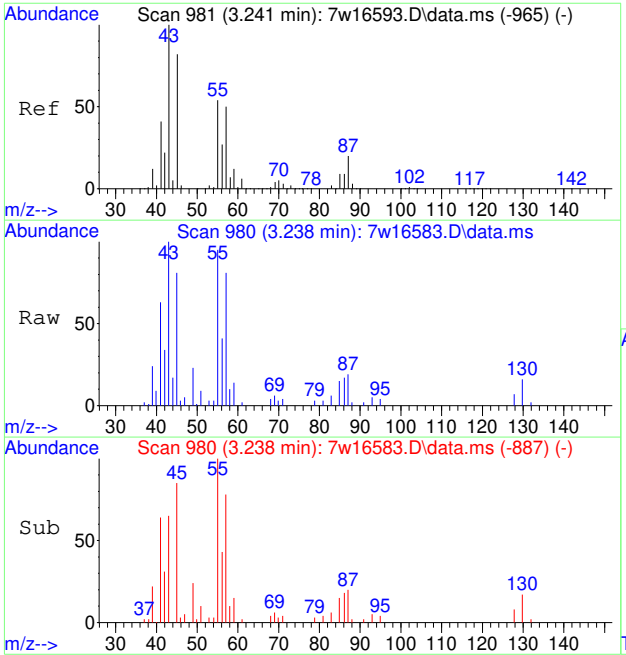


#37
TETRAHYDROFURAN
Concen: 0.14 PPBV
RT: 3.489 min Scan# 1058
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 887

Ion	Ratio	Lower	Upper
72	100		
42	327.1	153.0	284.2#
71	100.5	62.7	116.5

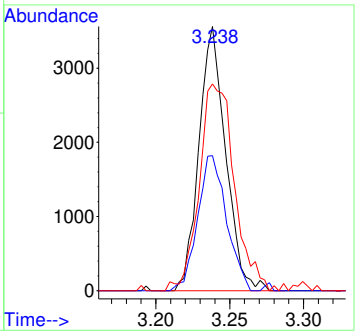


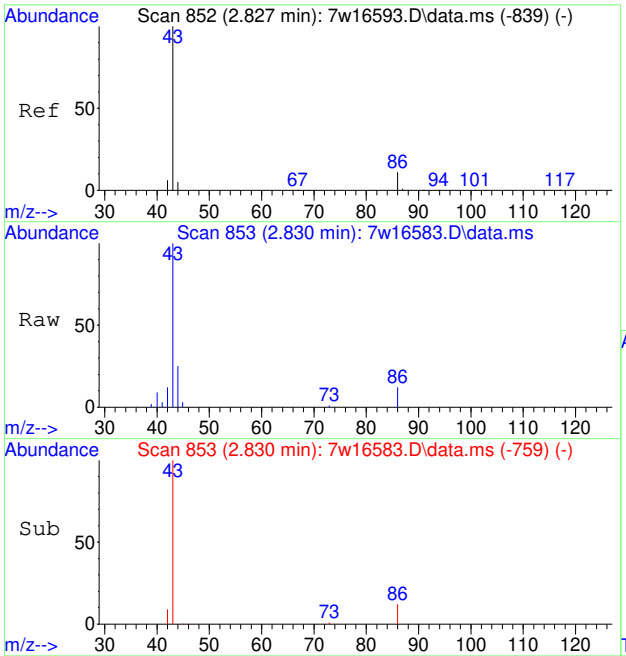


#38
HEXANE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 4468

Ion	Ratio	Lower	Upper
57	100		
56	56.0	37.3	69.3
41	104.9	86.7	161.1

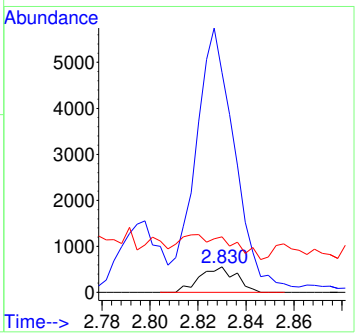


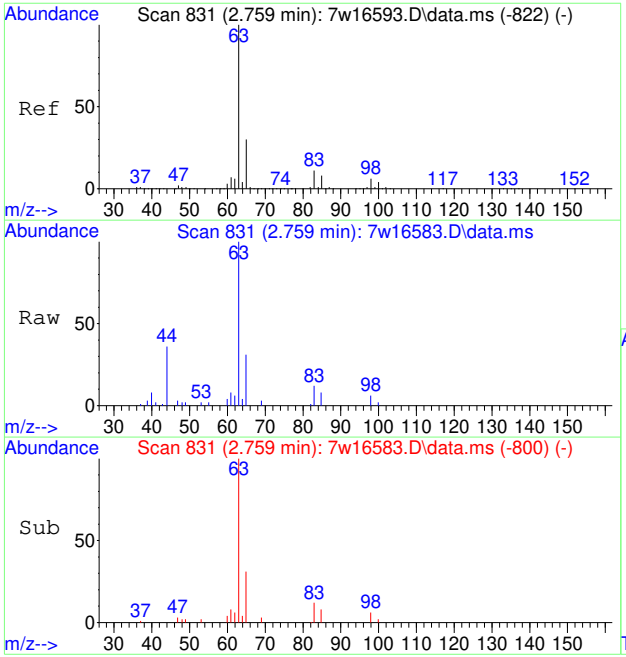


#39
VINYL ACETATE
Concen: 0.16 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 86 Resp: 581

Ion	Ratio	Lower	Upper
86	100		
43	1147.3	667.9	1240.3
44	110.5	32.7	60.7#

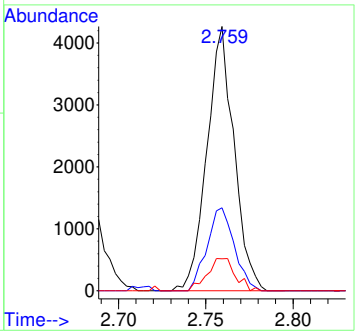


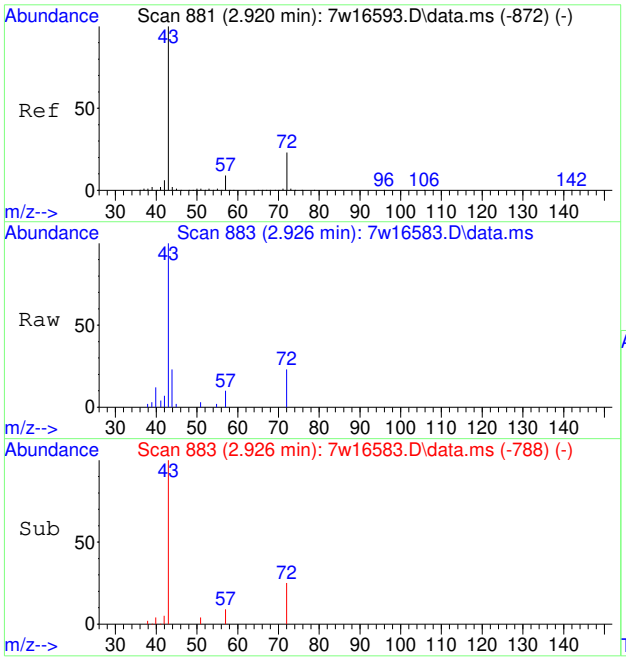


#40
1,1-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 4599

Ion	Ratio	Lower	Upper
63	100		
65	31.7	21.8	40.6
83	12.7	10.6	19.6

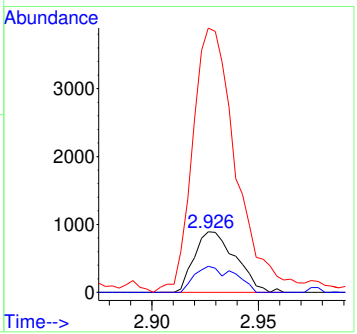


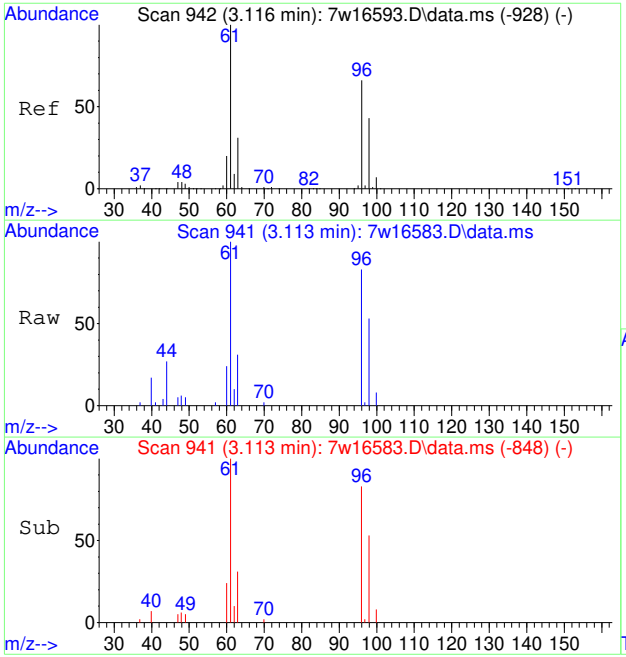


#41
METHYL ETHYL KETONE
Concen: 0.18 PPBV
RT: 2.926 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 1205

Ion	Ratio	Lower	Upper
72	100		
57	41.7	20.3	37.7#
43	447.8	282.8	525.2

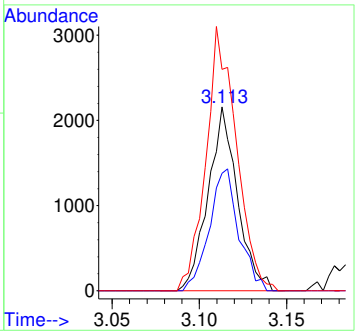


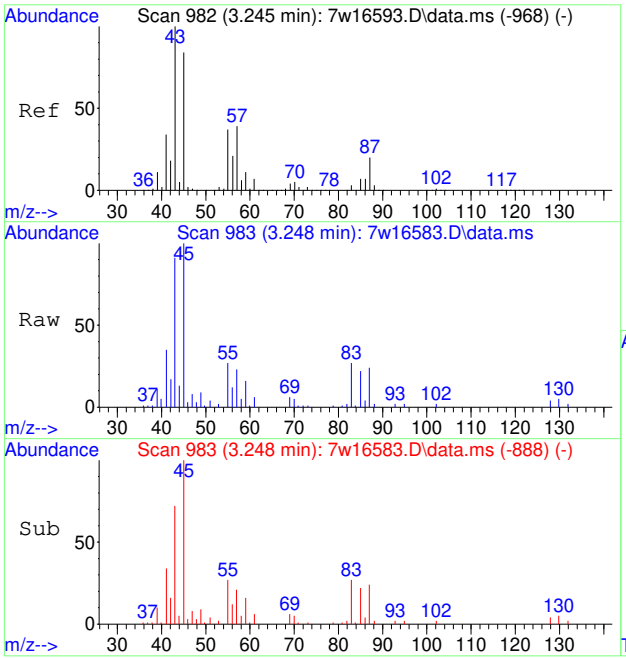


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.19 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2527

Ion	Ratio	Lower	Upper
96	100		
98	66.4	46.8	86.8
61	148.8	78.3	145.5#

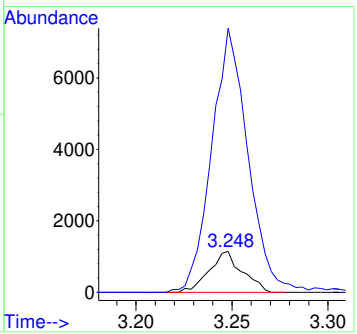


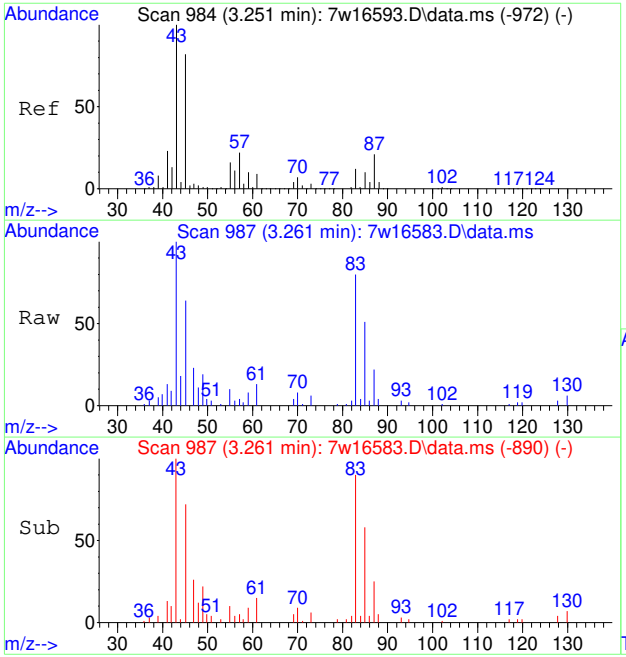


#43
DIISOPROPYL ETHER
Concen: 0.20 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 1371

Ion	Ratio	Lower	Upper
59	100		
45	718.4	532.1	988.1

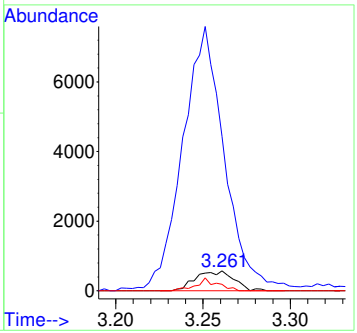


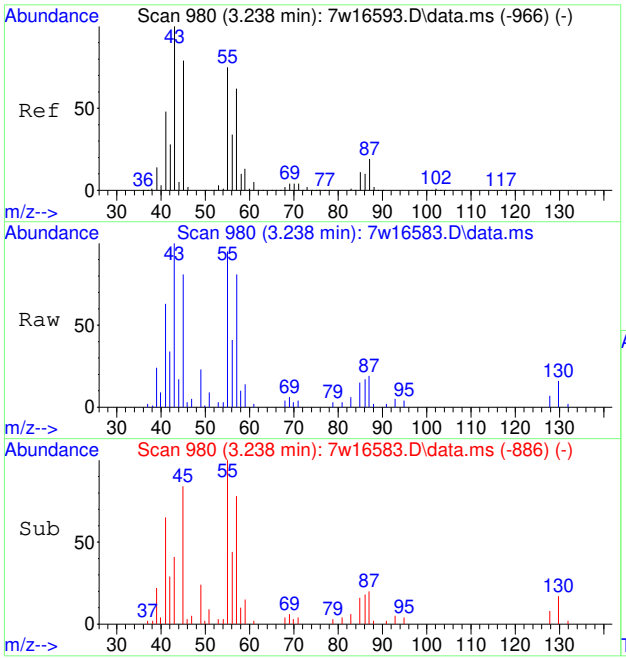


#44
ETHYL ACETATE
Concen: 0.18 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 61 Resp: 871

Ion	Ratio	Lower	Upper
61	100		
43	1463.9	1127.5	2093.9
88	36.2	36.2	67.2#

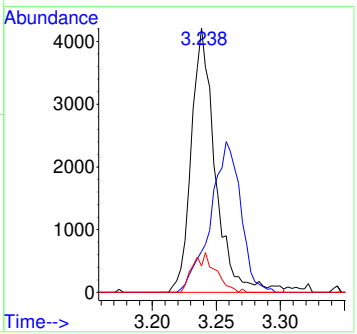


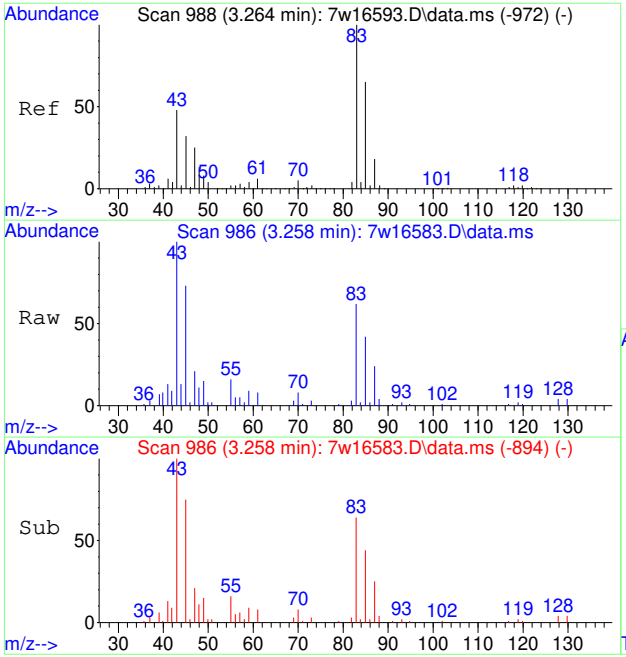


#45
METHYL ACRYLATE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 5488

Ion	Ratio	Lower	Upper
55	100		
85	71.8	0.0	0.0#
58	14.5	9.2	17.0

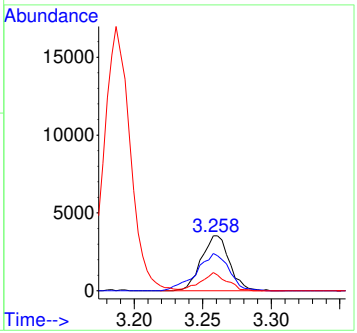


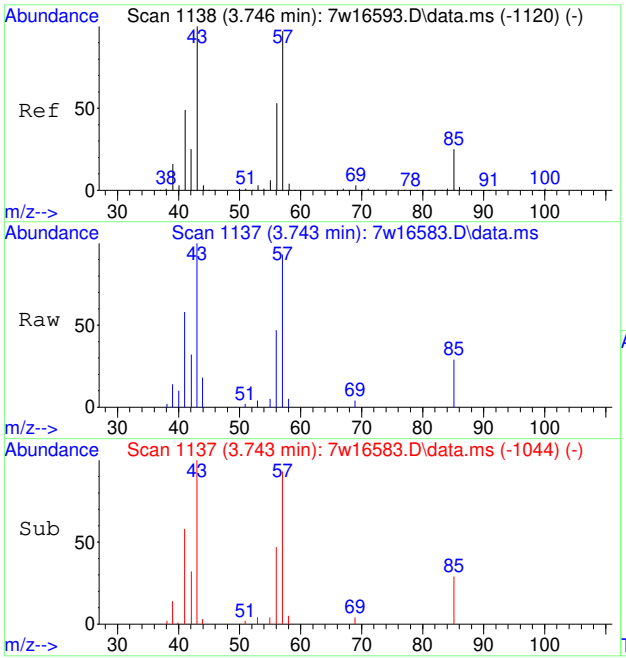


#46
CHLOROFORM
Concen: 0.19 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5027

Ion	Ratio	Lower	Upper
83	100		
85	78.4	54.6	101.4
47	30.5	17.9	33.3

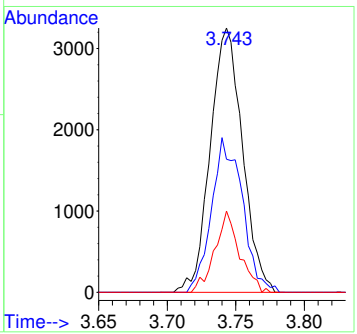


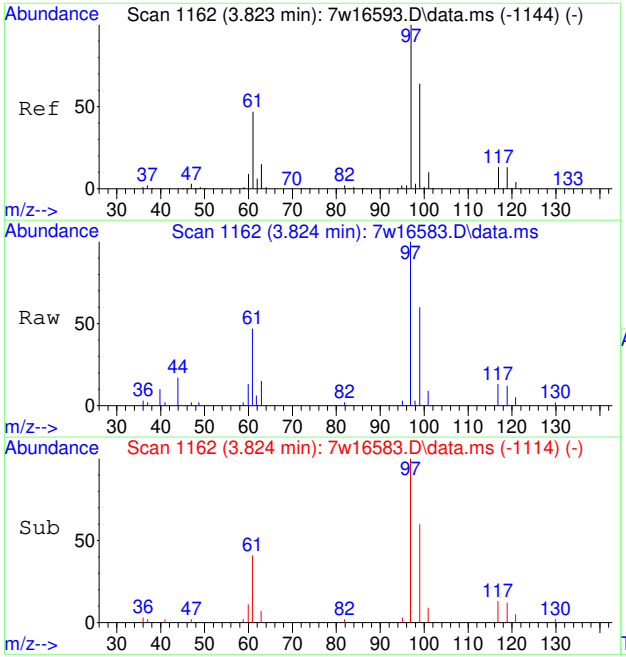


#47
2,4-DIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 5307

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	23.6	24.1	44.7#

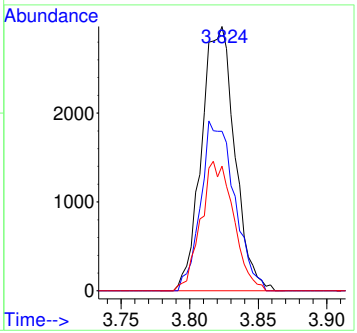


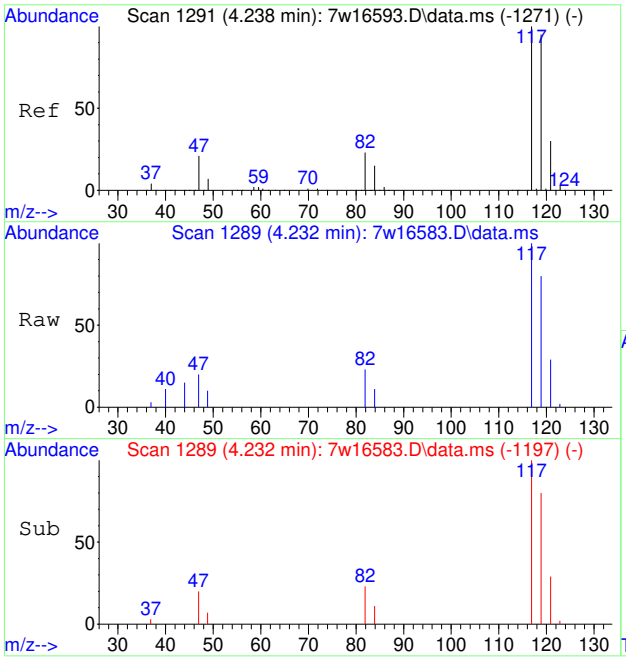


#48
1,1,1-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 97 Resp: 5006

Ion	Ratio	Lower	Upper
97	100		
99	64.9	44.9	83.5
61	48.3	28.6	53.0

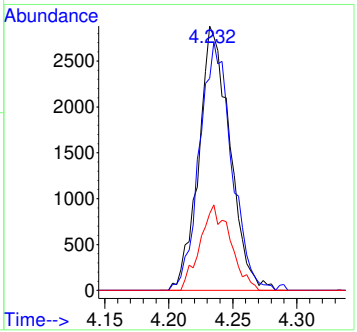


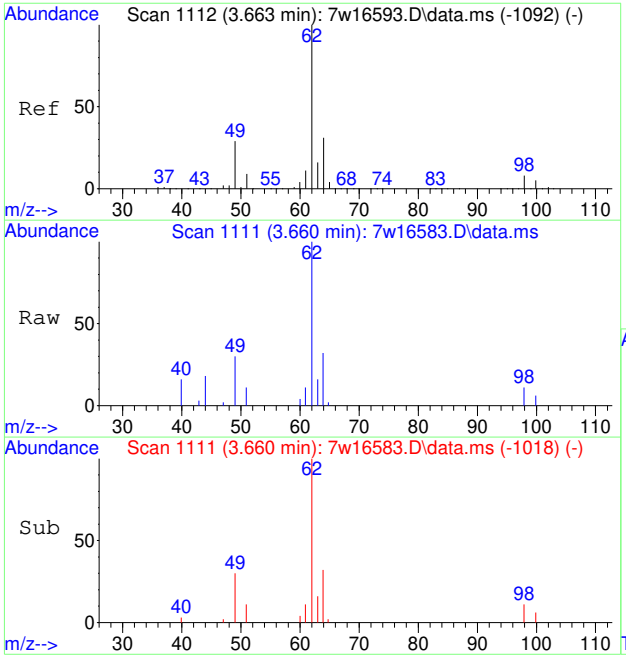


#49
CARBON TETRACHLORIDE
Concen: 0.16 PPBV
RT: 4.232 min Scan# 1289
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 4884

Ion	Ratio	Lower	Upper
117	100		
119	97.2	68.8	127.8
121	31.6	22.2	41.2

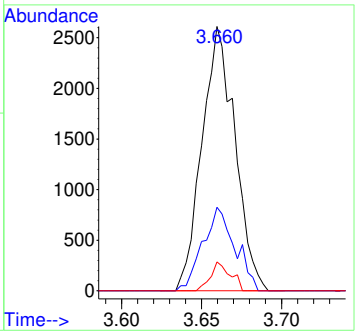


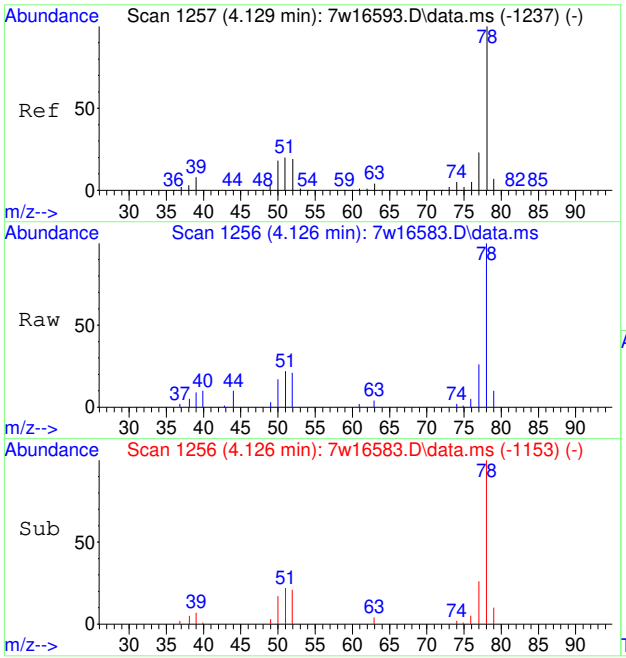


#50
1,2-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.660 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 3746

Ion	Ratio	Lower	Upper
62	100		
64	30.7	22.5	41.7
98	6.6	6.8	12.6#

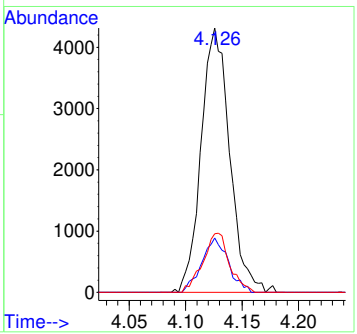


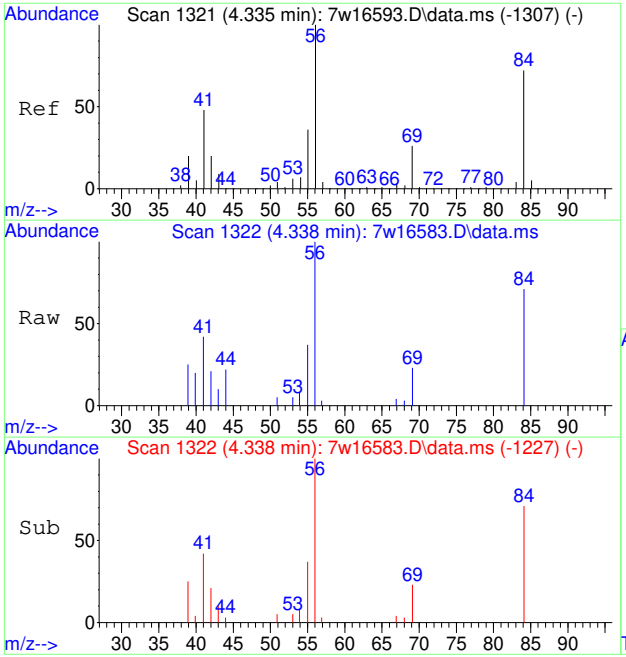


#51
BENZENE
Concen: 0.19 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 78 Resp: 7569

Ion	Ratio	Lower	Upper
78	100		
52	19.2	0.0	44.6
51	20.8	0.0	47.3

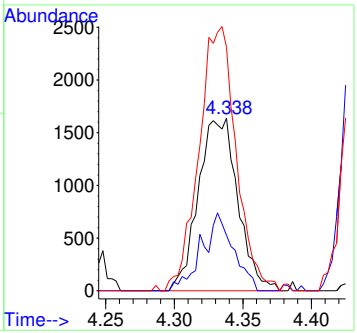


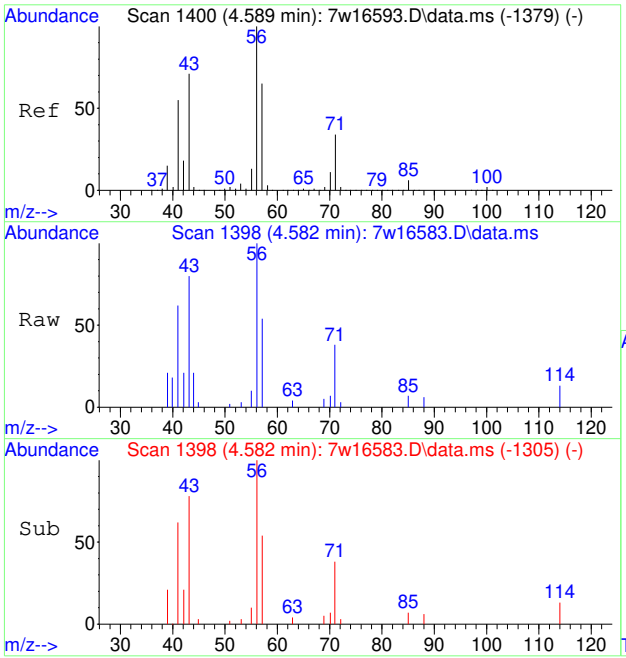


#53
CYCLOHEXANE
Concen: 0.18 PPBV
RT: 4.338 min Scan# 1322
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 3276

Ion	Ratio	Lower	Upper
84	100		
69	36.2	22.3	41.5
56	145.6	70.2	130.4#

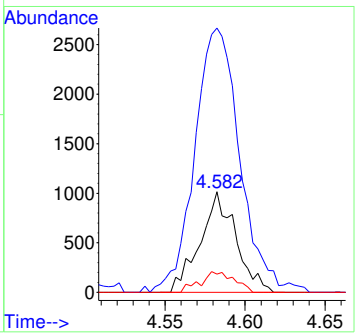


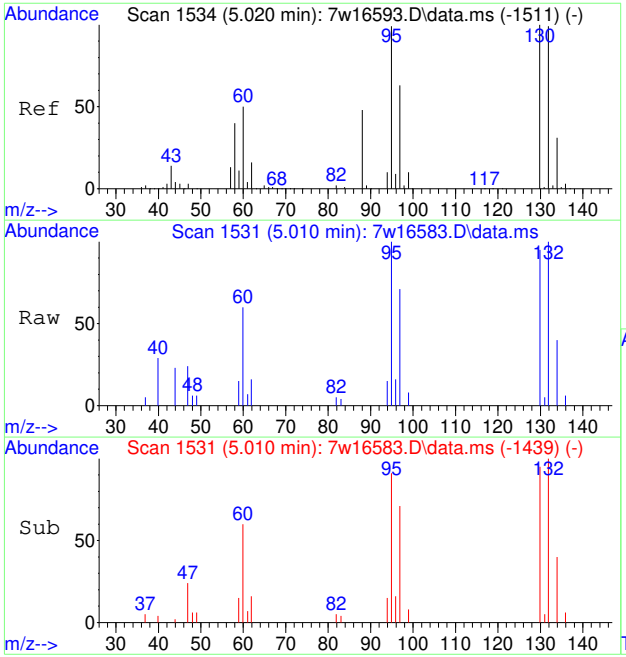


#54
2,3-DIMETHYLPENTANE
Concen: 0.17 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 71 Resp: 1571

Ion	Ratio	Lower	Upper
71	100		
56	333.0	171.4	318.4#
85	19.6	12.6	23.4

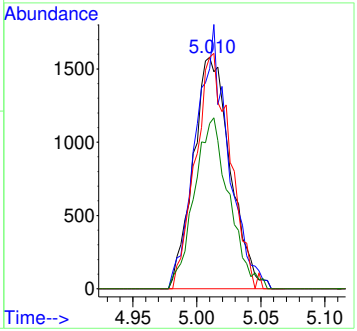


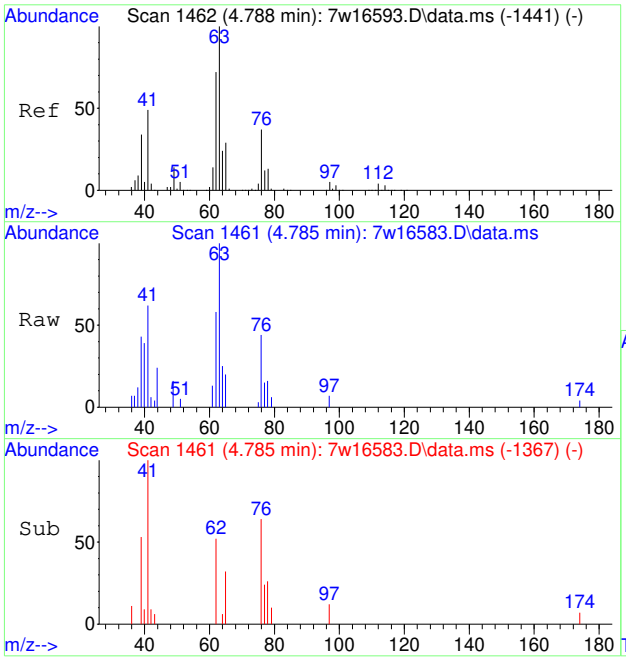


#55
TRICHLOROETHENE
Concen: 0.17 PPBV
RT: 5.010 min Scan# 1531
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 95 Resp: 3186

Ion	Ratio	Lower	Upper
95	100		
130	100.2	85.9	159.5
132	95.3	79.4	147.4
97	69.5	45.0	83.6

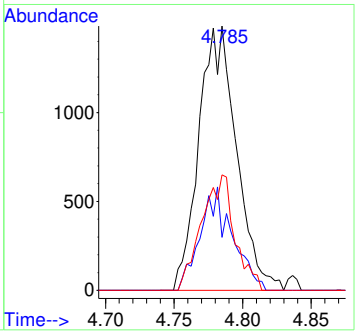


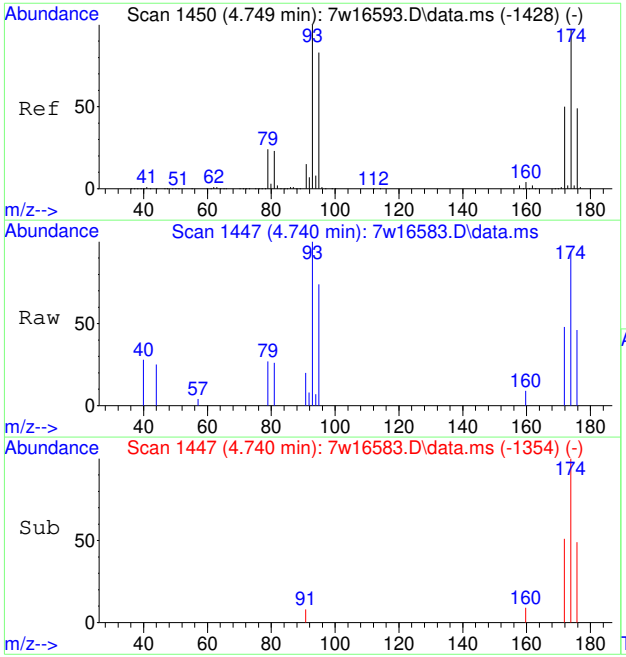


#56
1,2-DICHLOROPROPANE
Concen: 0.17 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 2832

Ion	Ratio	Lower	Upper
63	100		
65	33.3	22.6	42.0
76	38.5	31.8	59.0

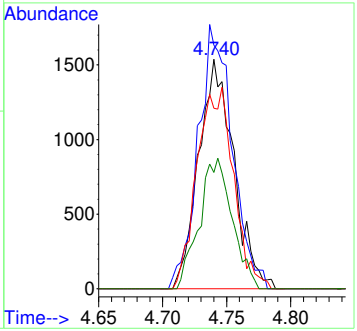


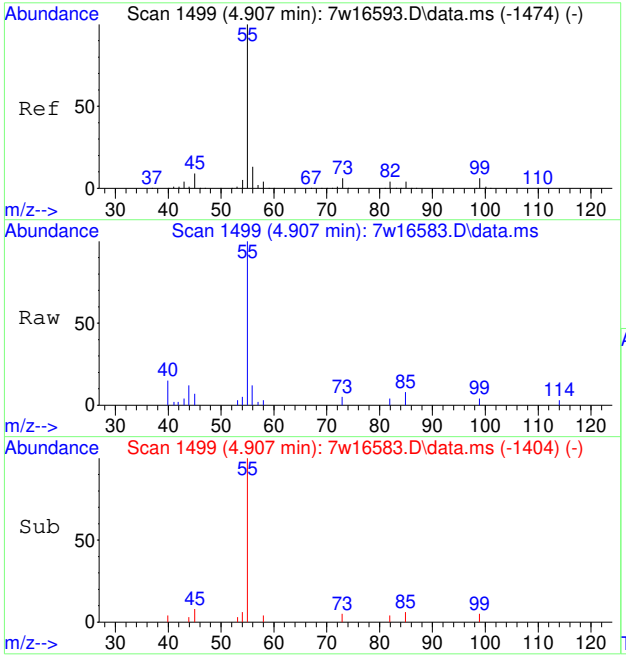


#57
DIBROMOMETHANE
Concen: 0.19 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:174 Resp: 2923

Ion	Ratio	Lower	Upper
174	100		
93	112.0	67.3	125.1
95	91.2	56.8	105.6
172	53.5	36.3	67.5

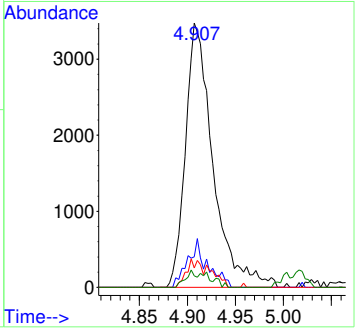


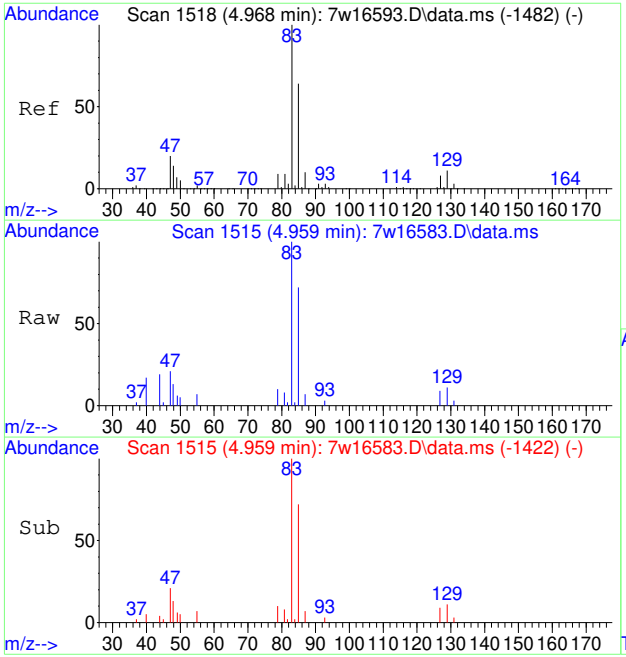


#58
ETHYL ACRYLATE
Concen: 0.18 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 6937

Ion	Ratio	Lower	Upper
55	100		
56	13.2	7.9	14.7
45	9.0	6.6	12.2
99	5.3	6.2	11.6#

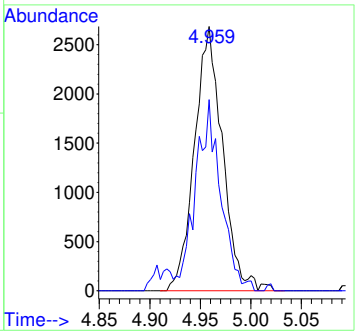


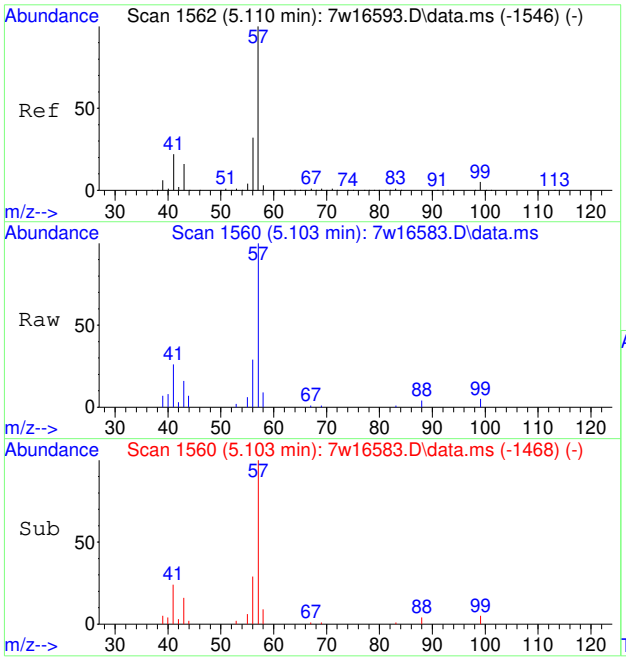


#59
BROMODICHLOROMETHANE
Concen: 0.16 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5187

Ion	Ratio	Lower	Upper
83	100		
85	70.2	44.9	83.5

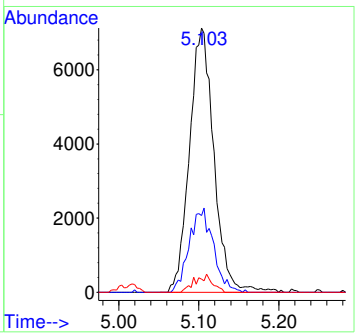


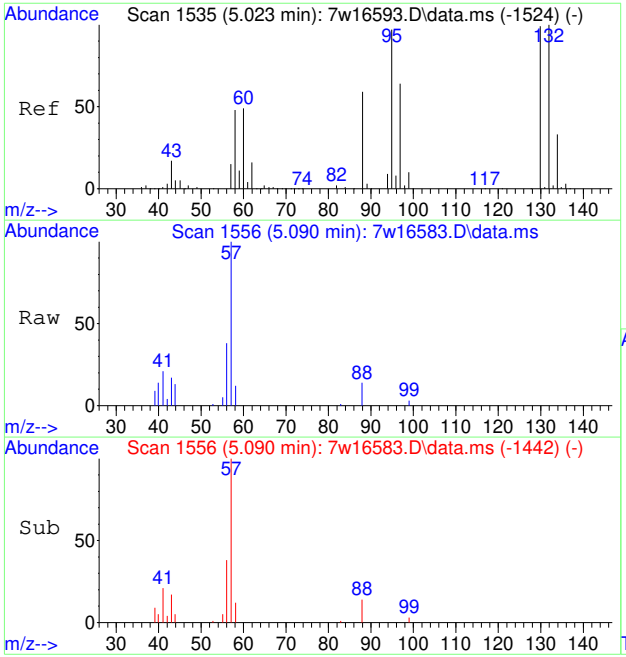


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 15119

Ion	Ratio	Lower	Upper
57	100		
56	31.5	24.4	45.2
99	4.9	5.2	9.6#

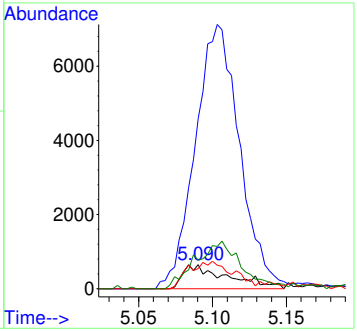


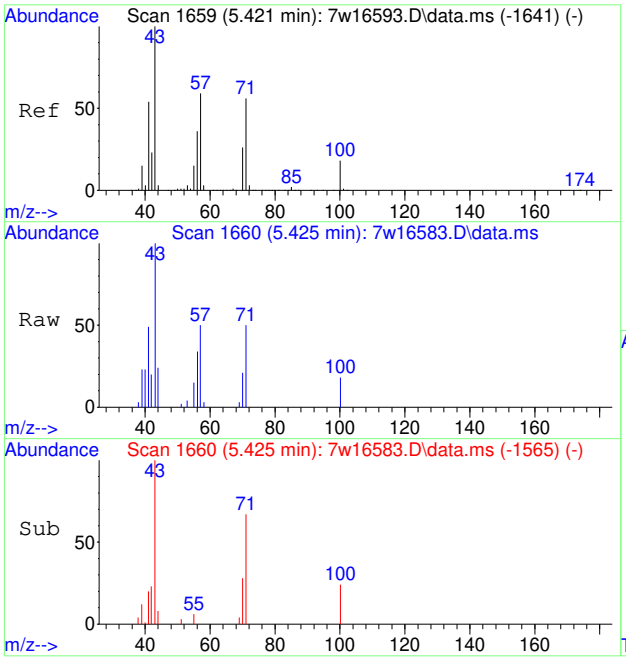


#61
1,4-DIOXANE
Concen: 0.15 PPBV
RT: 5.090 min Scan# 1556
Delta R.T. 0.068 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 88 Resp: 1375

Ion	Ratio	Lower	Upper
88	100		
57	1099.6	13.1	24.3#
58	117.7	39.1	72.5#
43	219.3	18.3	33.9#

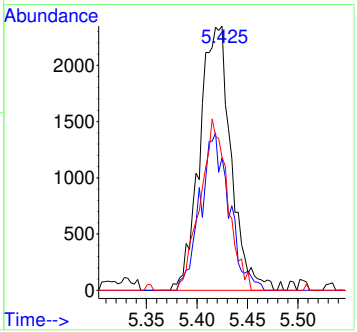


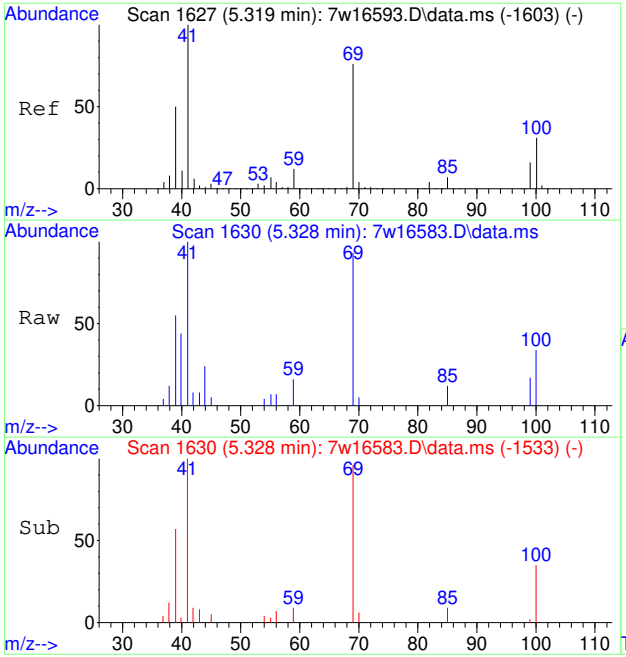


#62
HEPTANE
Concen: 0.19 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 5077

Ion	Ratio	Lower	Upper
43	100		
71	55.1	45.0	83.6
57	56.5	37.2	69.0

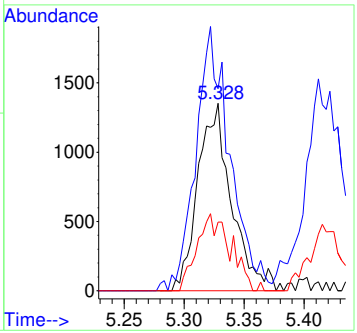


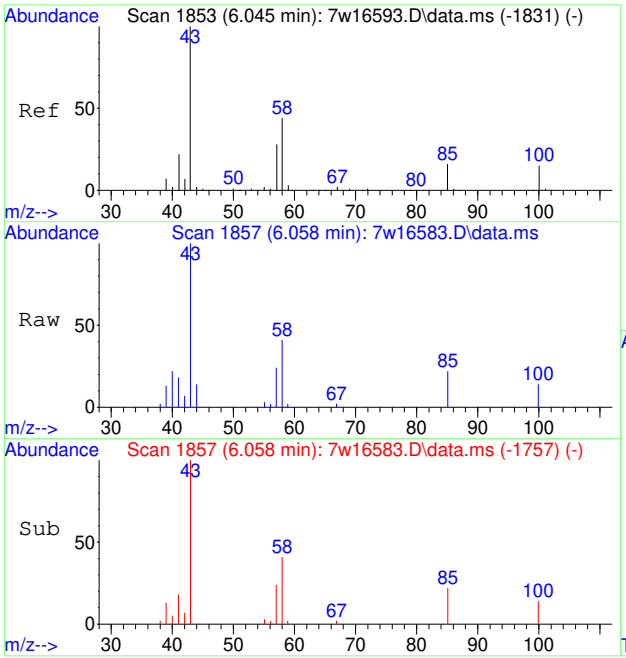


#63
METHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 5.328 min Scan# 1630
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 2638

Ion	Ratio	Lower	Upper
69	100		
41	142.4	84.3	156.5
100	41.0	30.8	57.2

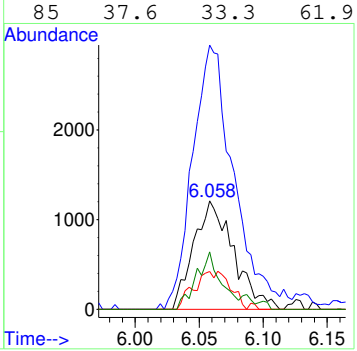


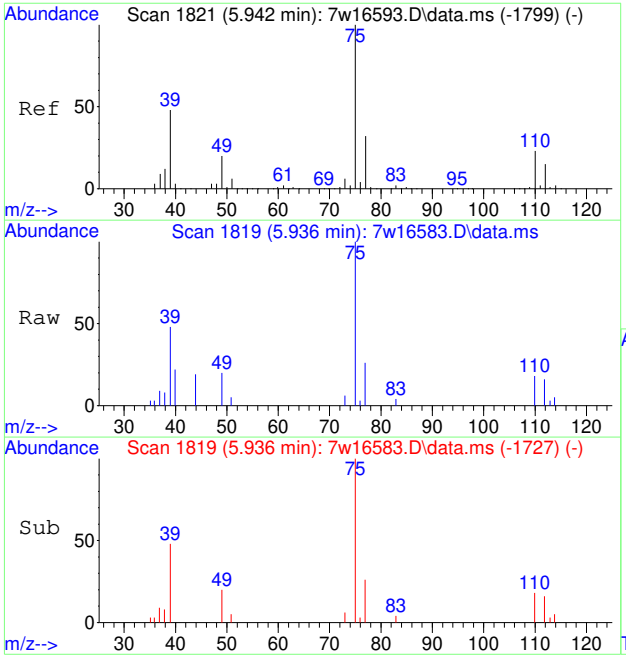


#64
METHYL ISOBUTYL KETONE
Concen: 0.17 PPBV
RT: 6.058 min Scan# 1857
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 2634

Ion	Ratio	Lower	Upper
58	100		
43	259.0	193.8	360.0
100	32.5	32.8	60.8#
85	37.6	33.3	61.9

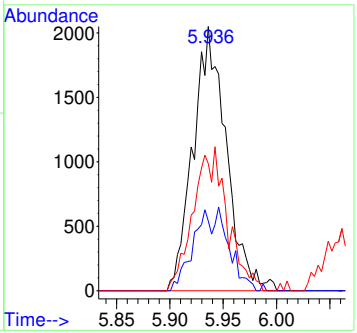


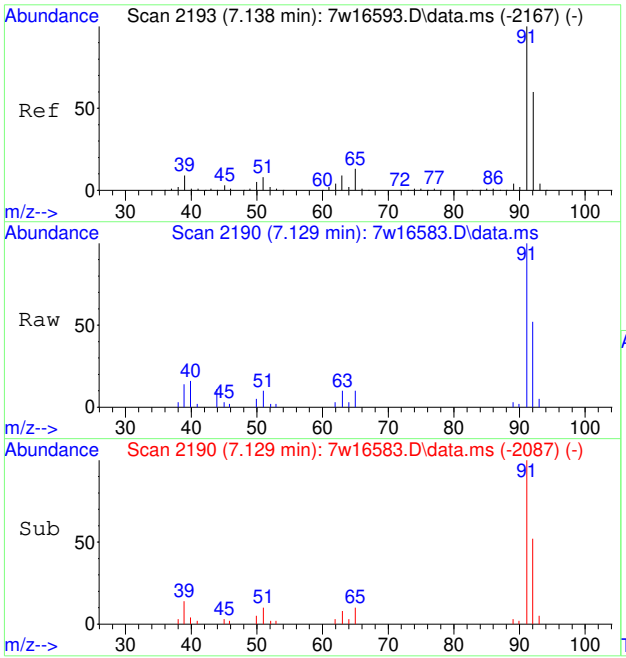


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.17 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 4430

Ion	Ratio	Lower	Upper
75	100		
77	32.6	22.0	40.8
39	55.6	38.5	71.5

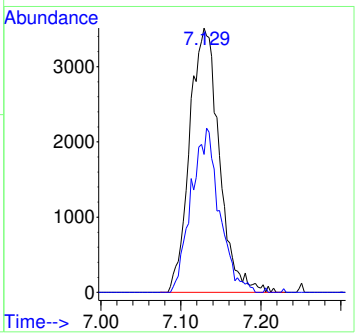


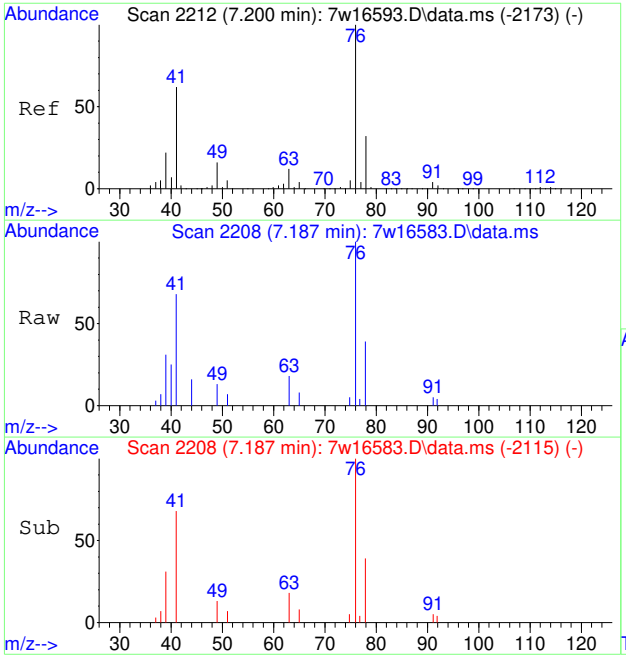


#66
TOLUENE
Concen: 0.19 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9065

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

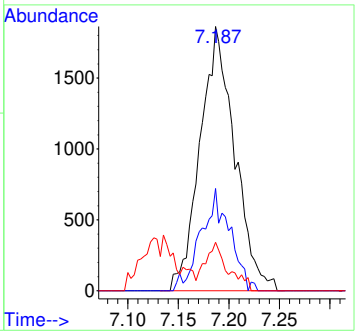


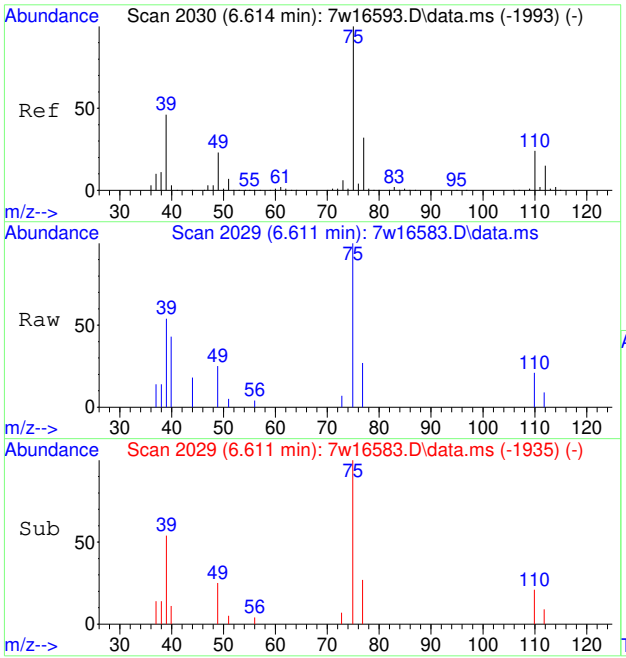


#67
1,3-DICHLOROPROPANE
Concen: 0.18 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 4438

Ion	Ratio	Lower	Upper
76	100		
78	32.2	22.1	41.1
63	12.5	8.0	14.8

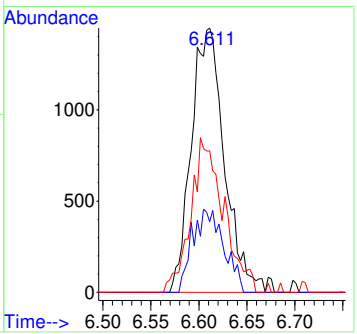


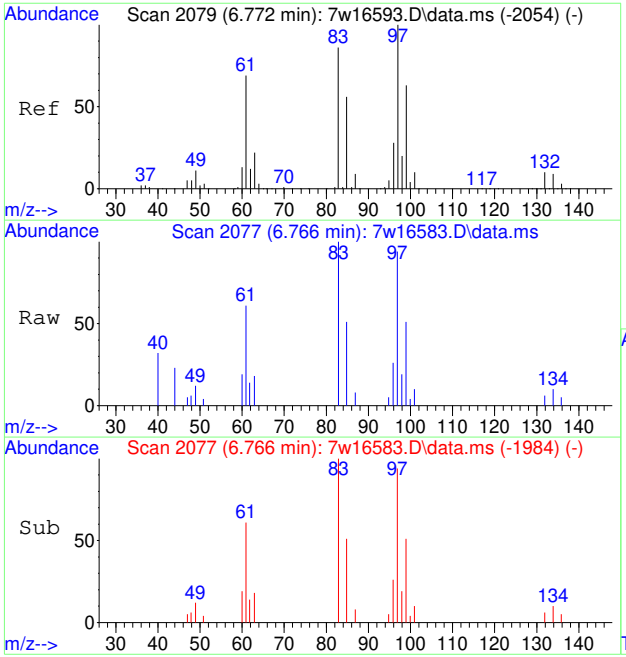


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.14 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 3506

Ion	Ratio	Lower	Upper
75	100		
77	29.5	22.5	41.7
39	57.2	37.2	69.0

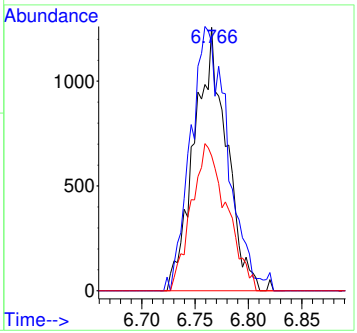


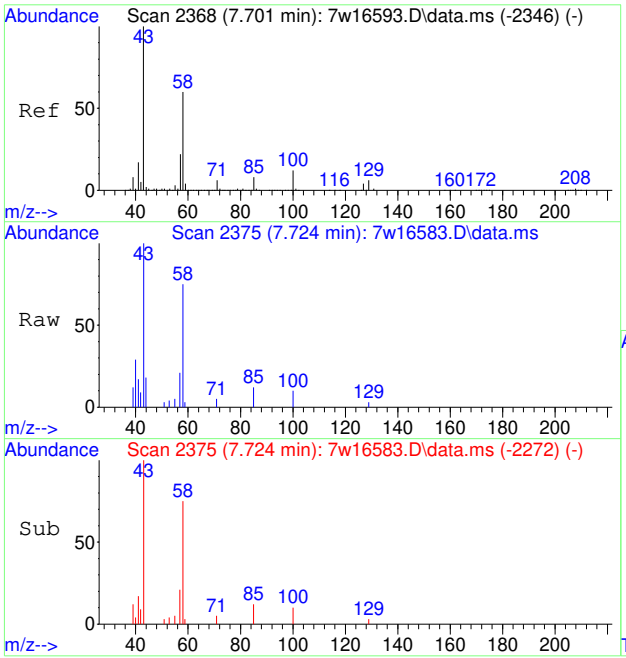


#69
1,1,2-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
97	116.1	86.7	160.9
85	61.6	45.5	84.5

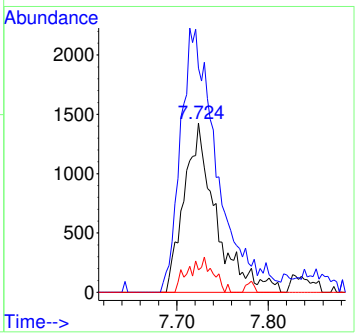


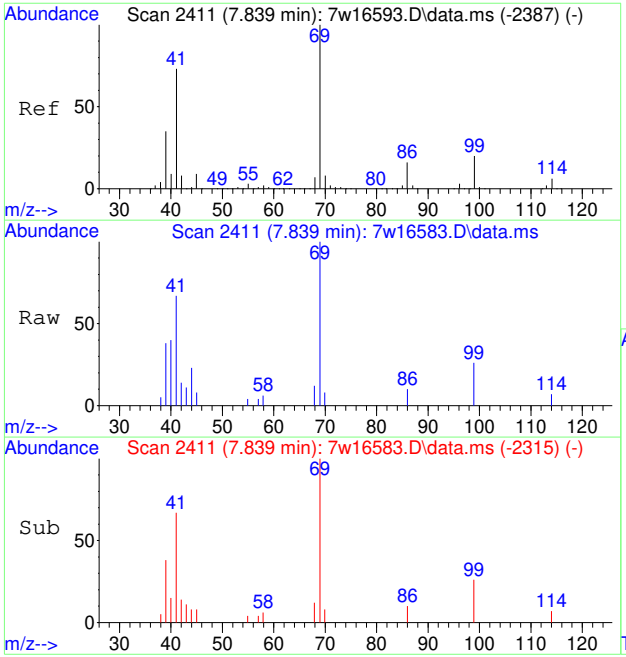


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.724 min Scan# 2375
Delta R.T. 0.032 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 3463

Ion	Ratio	Lower	Upper
58	100		
43	179.8	141.7	263.3
100	15.7	18.9	35.1#

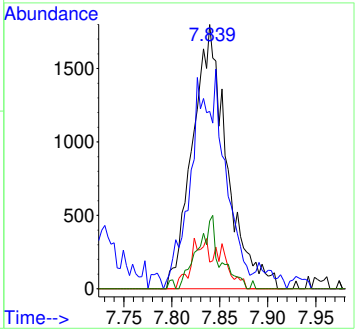


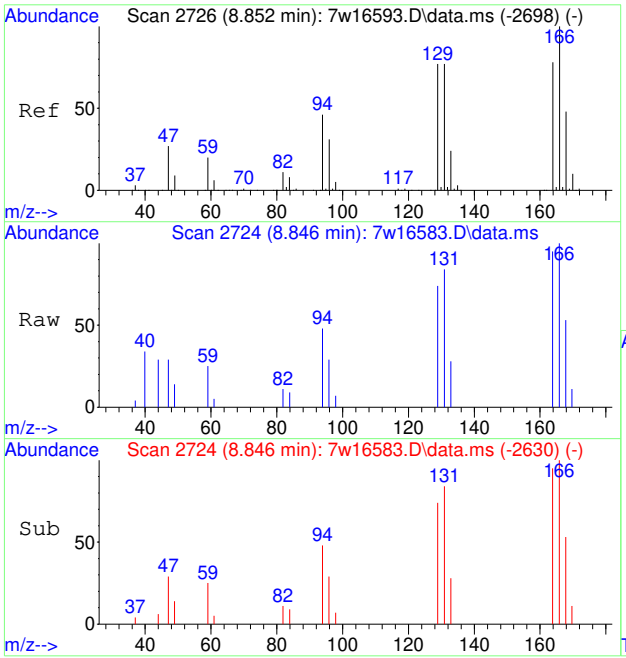


#71
ETHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 4472

Ion	Ratio	Lower	Upper
69	100		
41	82.5	49.3	91.6
86	7.3	11.6	21.6#
99	18.8	13.4	24.8

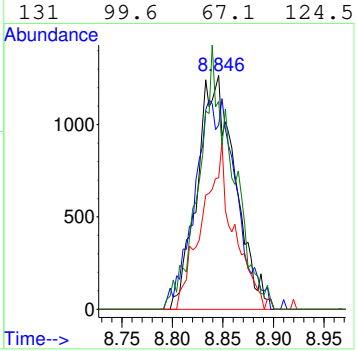


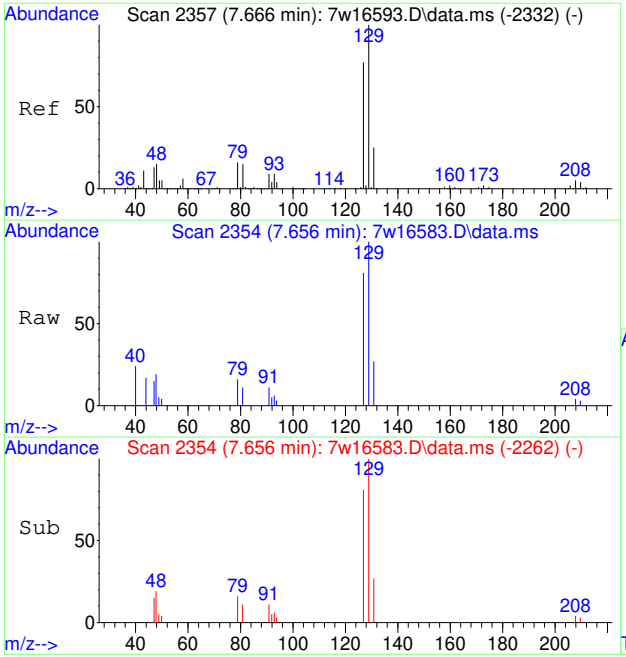


#72
TETRACHLOROETHENE
Concen: 0.19 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:164 Resp: 3315

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.7	129.5
168	59.1	43.4	80.6
131	99.6	67.1	124.5

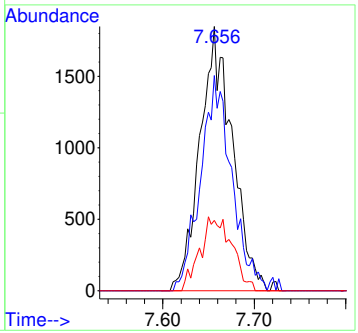


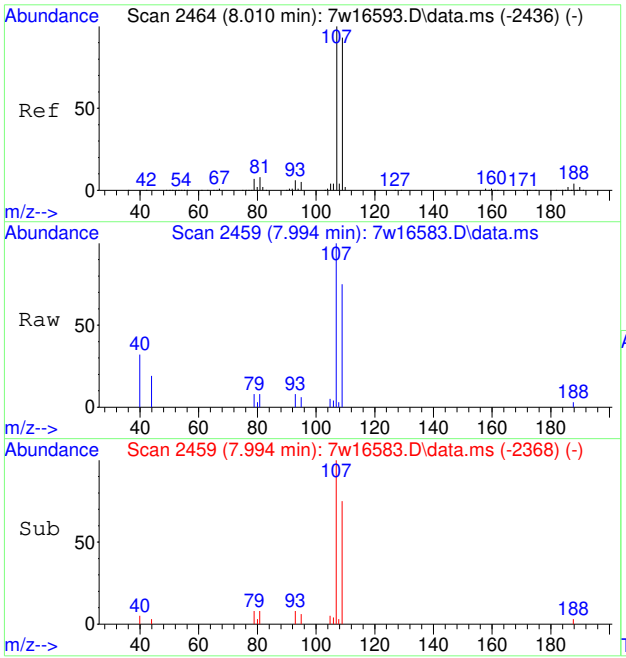


#73
DIBROMOCHLOROMETHANE
Concen: 0.15 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:129 Resp: 4563

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	27.4	16.9	31.3

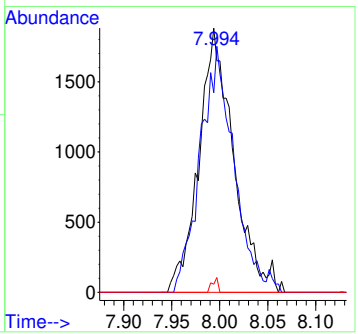


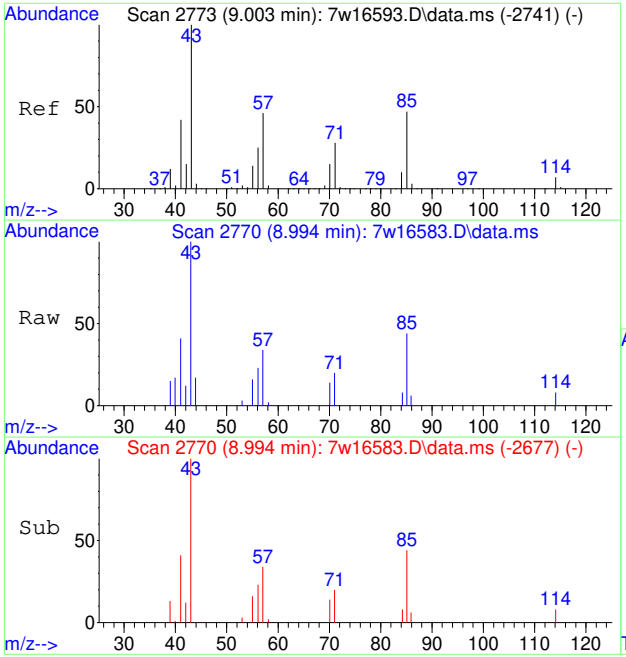


#74
1,2-DIBROMOETHANE
Concen: 0.19 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:107 Resp: 4734

Ion	Ratio	Lower	Upper
107	100		
109	91.0	65.7	122.1
188	0.0	2.4	4.4#

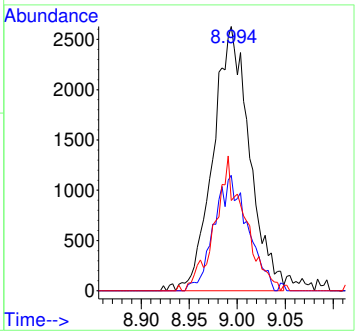


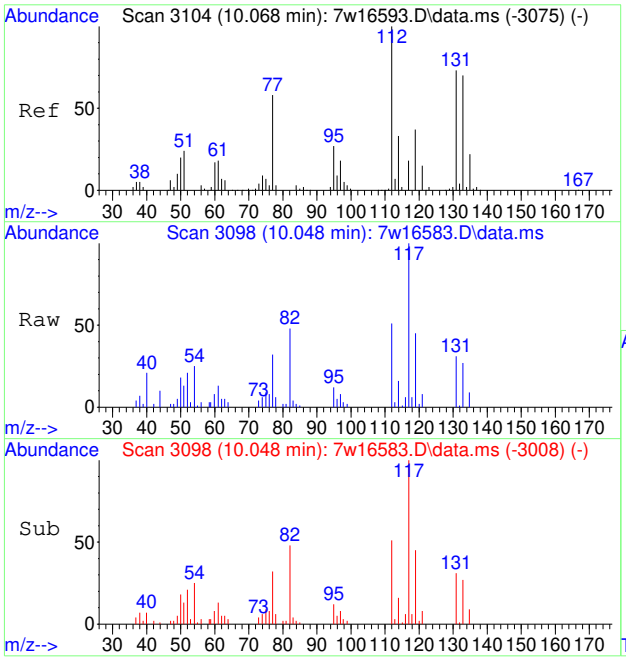


#75
OCTANE
Concen: 0.19 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 6956

Ion	Ratio	Lower	Upper
43	100		
85	40.7	36.5	67.9
57	41.8	27.6	51.2

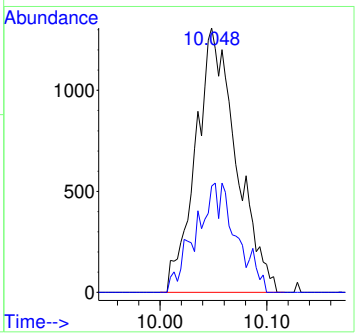


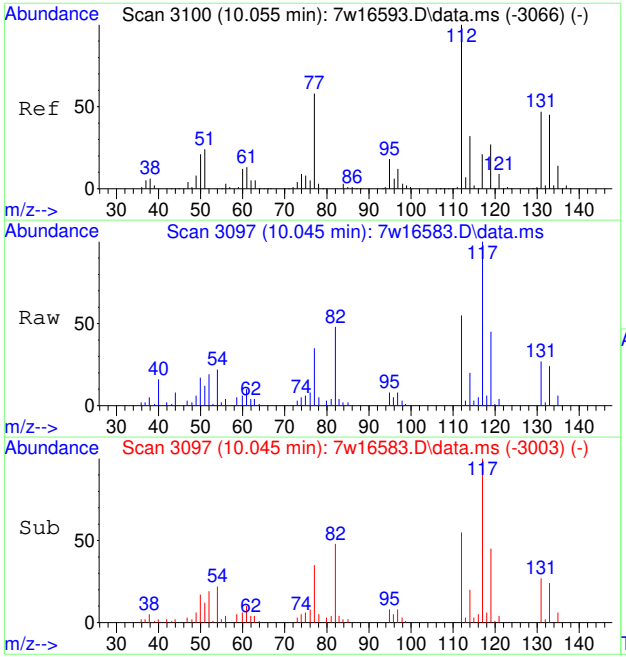


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.16 PPBV
RT: 10.048 min Scan# 3098
Delta R.T. -0.009 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:131 Resp: 3463

Ion	Ratio	Lower	Upper
131	100		
95	41.4	23.7	43.9

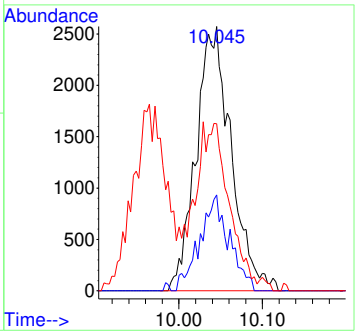


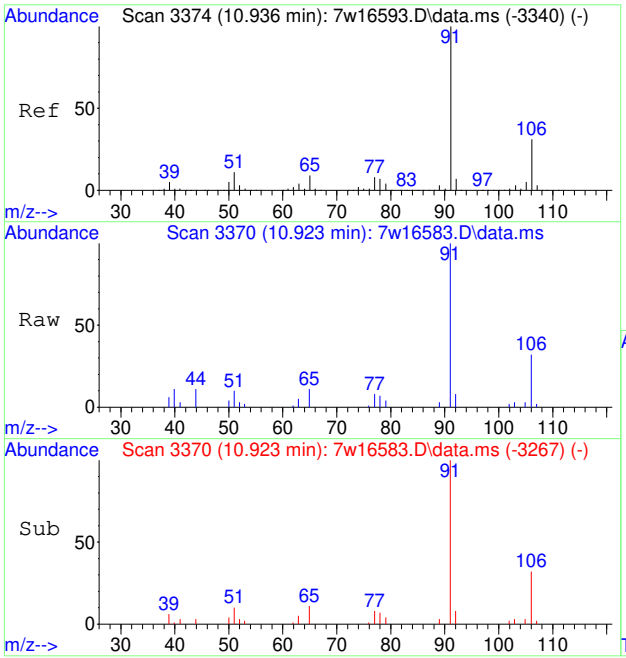


#78
CHLOROBENZENE
Concen: 0.19 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:112 Resp: 7506

Ion	Ratio	Lower	Upper
112	100		
114	30.5	22.9	42.5
77	62.6	34.4	63.8

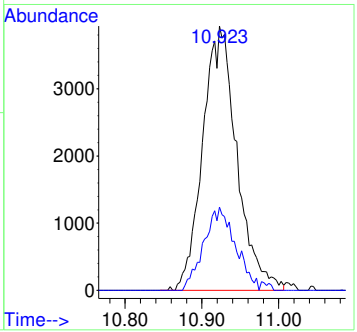


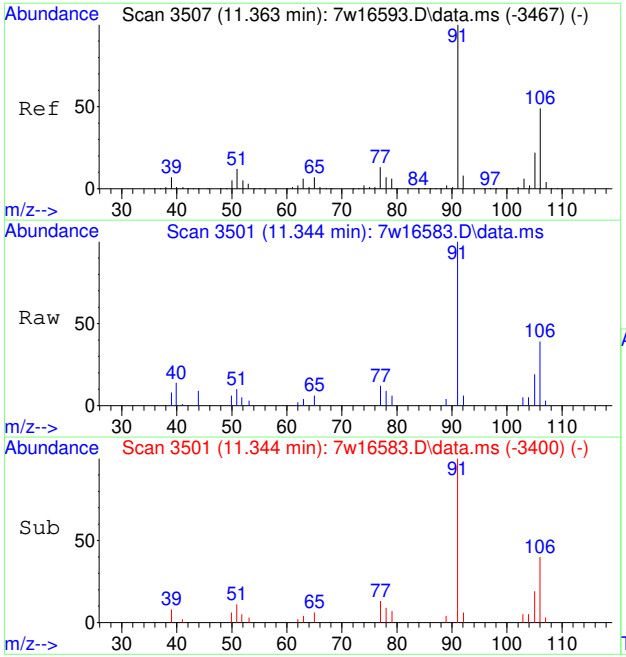


#79
ETHYLBENZENE
Concen: 0.19 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 12148

Ion	Ratio	Lower	Upper
91	100		
106	29.0	2.8	62.8

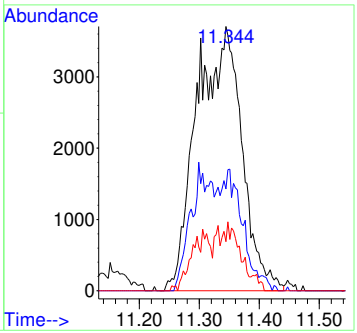


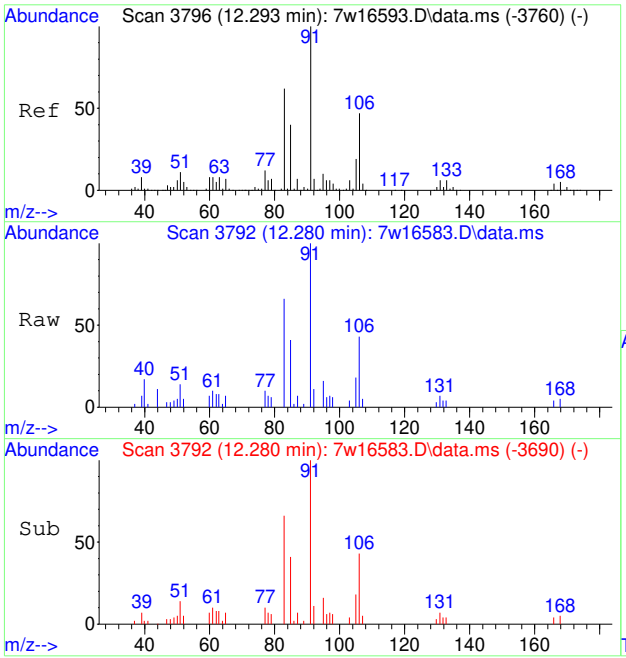


#80
M,P-XYLENE
Concen: 0.37 PPBV
RT: 11.344 min Scan# 3501
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 19306

Ion	Ratio	Lower	Upper
91	100		
106	19.5	0.0	58.7
105	14.1	0.0	43.2

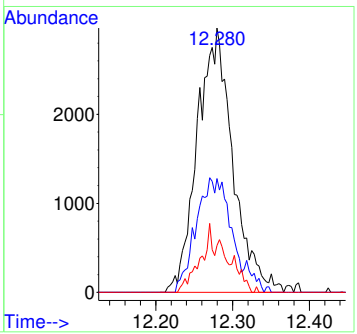


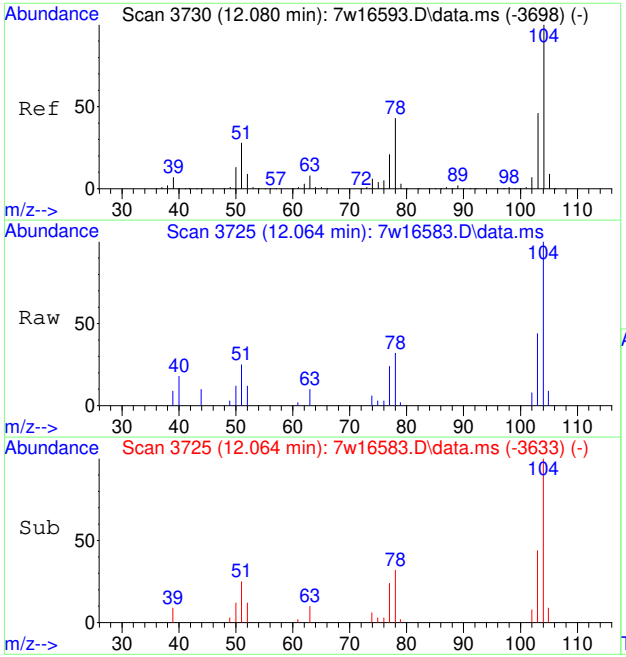


#81
O-XYLENE
Concen: 0.19 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9544

Ion	Ratio	Lower	Upper
91	100		
106	43.0	34.1	63.3
105	17.7	14.6	27.2

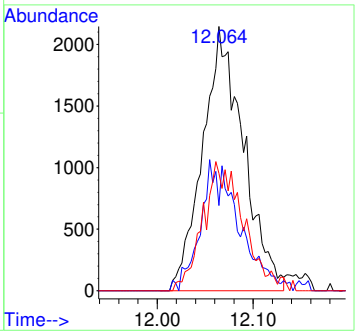


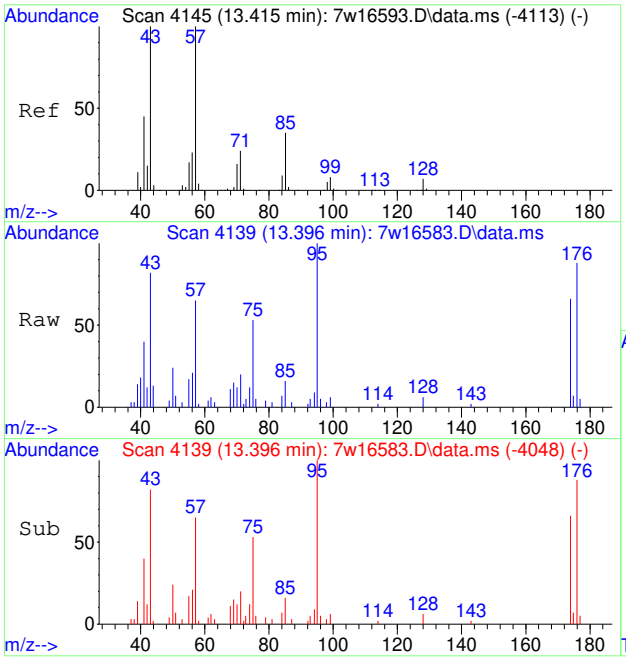


#82
STYRENE
Concen: 0.16 PPBV
RT: 12.064 min Scan# 3725
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:104 Resp: 6329

Ion	Ratio	Lower	Upper
104	100		
78	47.9	25.3	46.9#
103	48.8	33.2	61.7

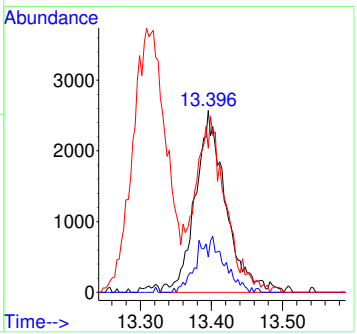


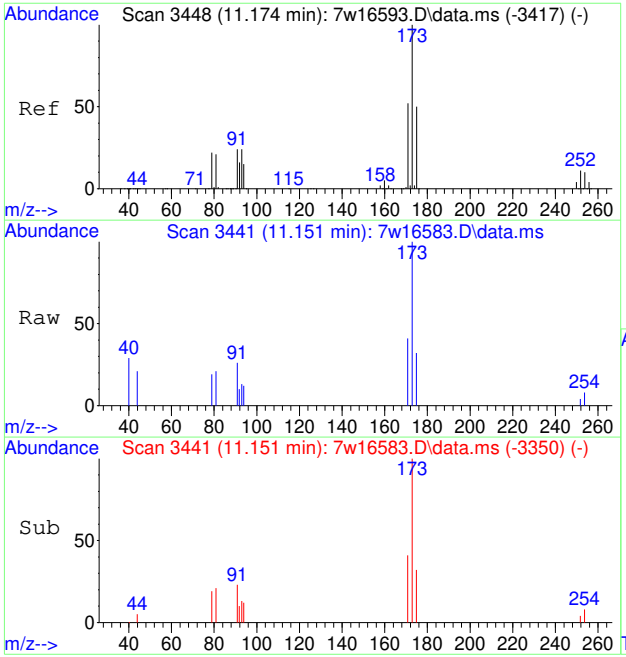


#83
NONANE
Concen: 0.20 PPBV
RT: 13.396 min Scan# 4139
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 7642

Ion	Ratio	Lower	Upper
43	100		
85	28.4	27.6	51.2
57	91.2	56.4	104.7

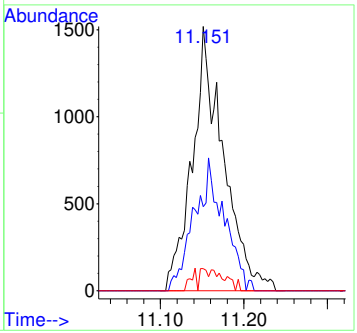


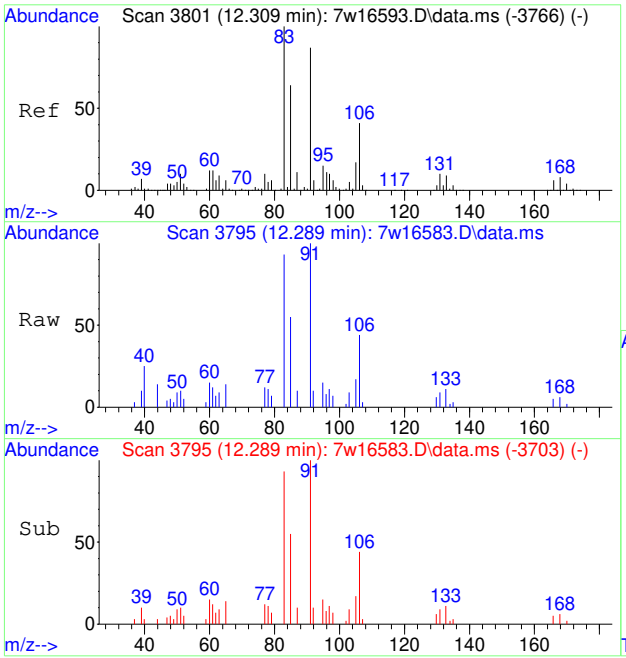


#84
BROMOFORM
Concen: 0.15 PPBV
RT: 11.151 min Scan# 3441
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:173 Resp: 3912

Ion	Ratio	Lower	Upper
173	100		
175	48.4	33.0	61.4
254	7.9	5.9	10.9

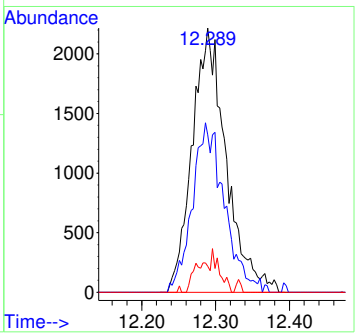


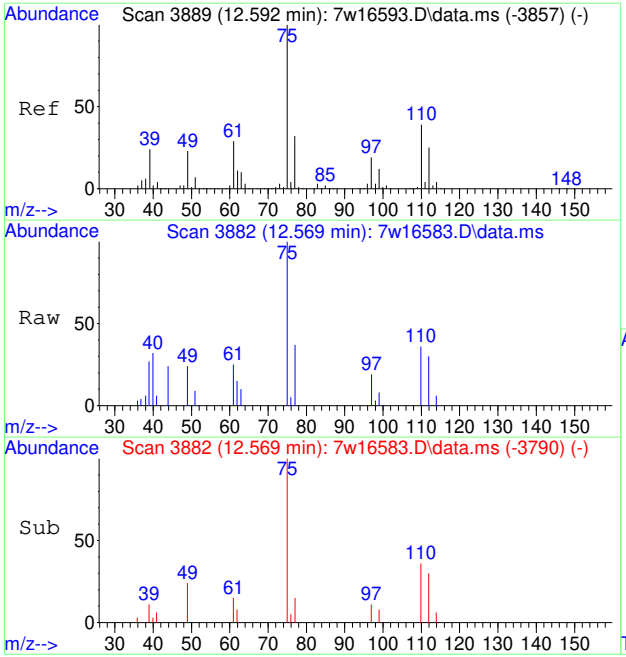


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.19 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 7071

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	9.9	8.0	14.8

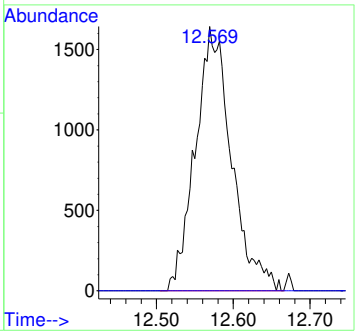


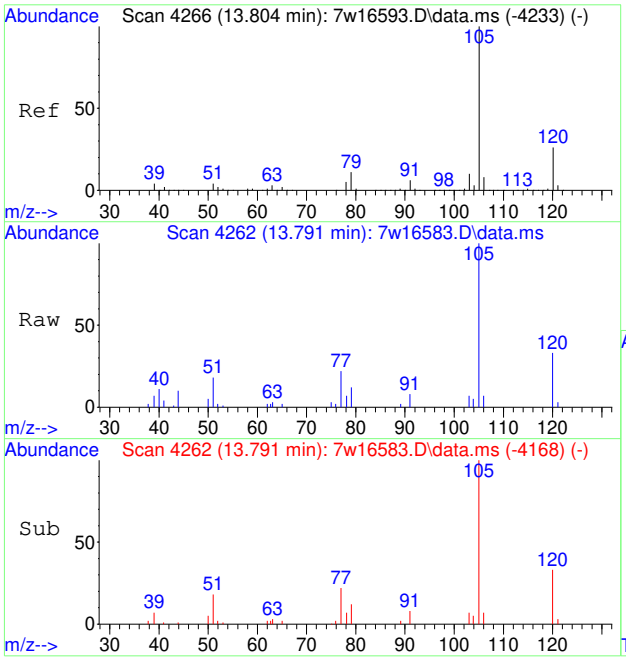


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.19 PPBV
RT: 12.569 min Scan# 3882
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 5376

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

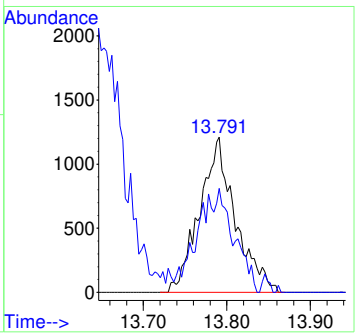


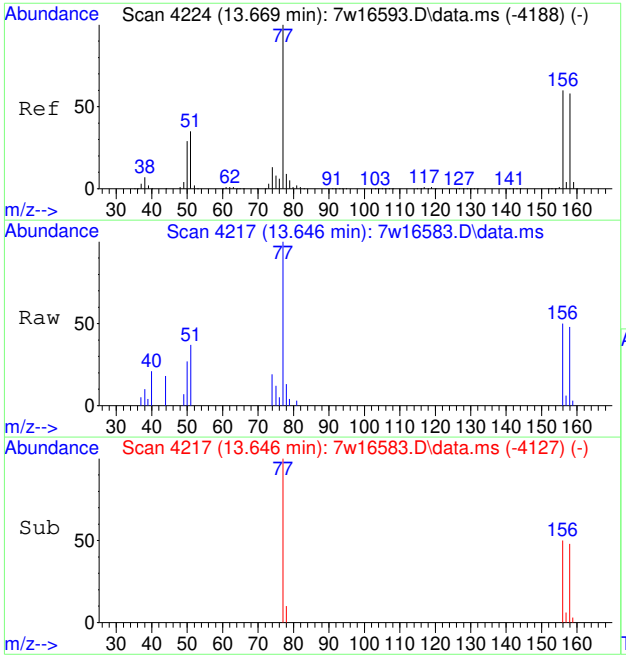


#88
ISOPROPYLBENZENE
Concen: 0.19 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3578

Ion	Ratio	Lower	Upper
120	100		
77	73.3	36.0	67.0#

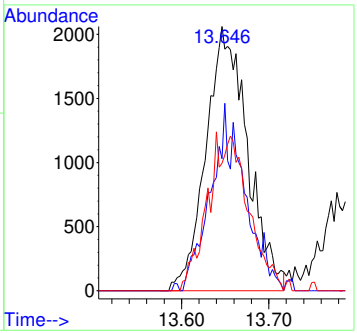


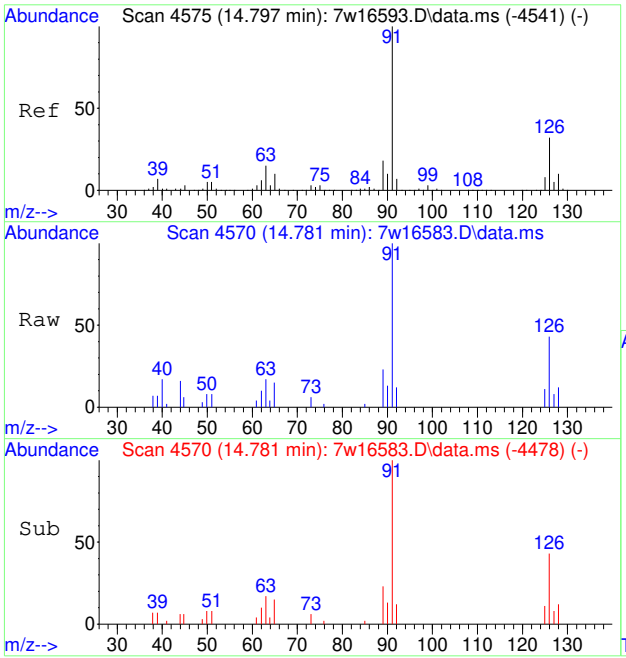


#89
BROMOBENZENE
Concen: 0.19 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 77 Resp: 6796

Ion	Ratio	Lower	Upper
77	100		
156	59.2	57.9	107.5
158	58.4	55.7	103.5

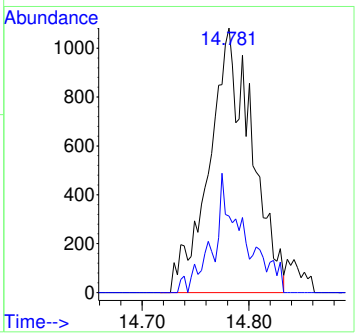


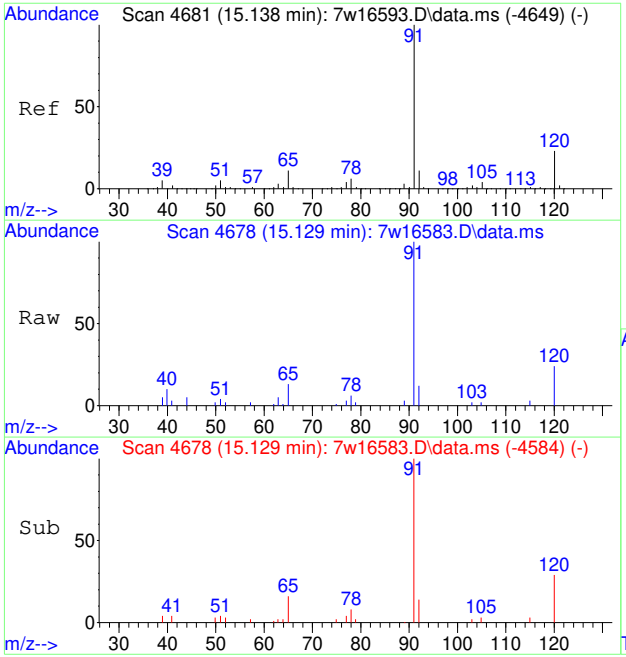


#90
2-CHLOROTOLUENE
Concen: 0.16 PPBV
RT: 14.781 min Scan# 4570
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:126 Resp: 2989

Ion	Ratio	Lower	Upper
126	100		
128	33.2	22.7	42.1

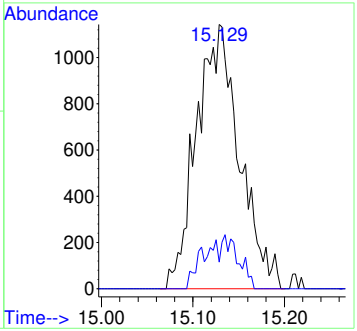


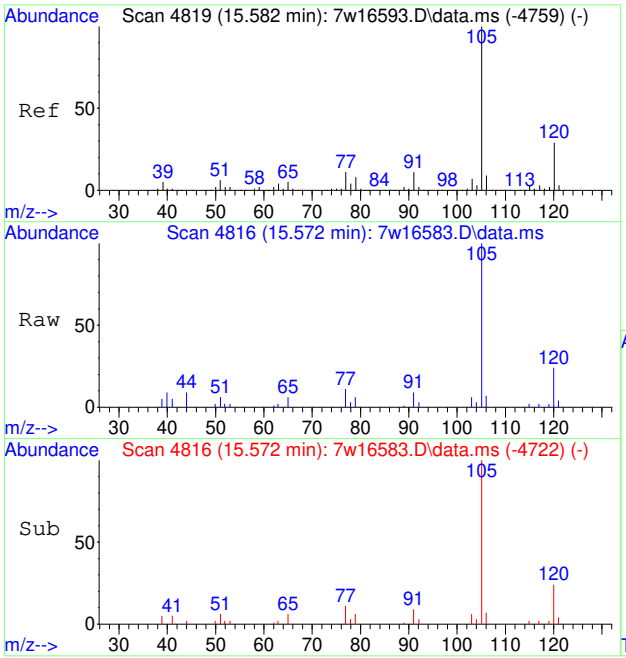


#91
N-PROPYLBENZENE
Concen: 0.18 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3735

Ion	Ratio	Lower	Upper
120	100		
105	15.7	10.6	19.6

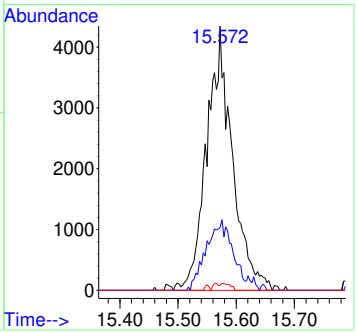


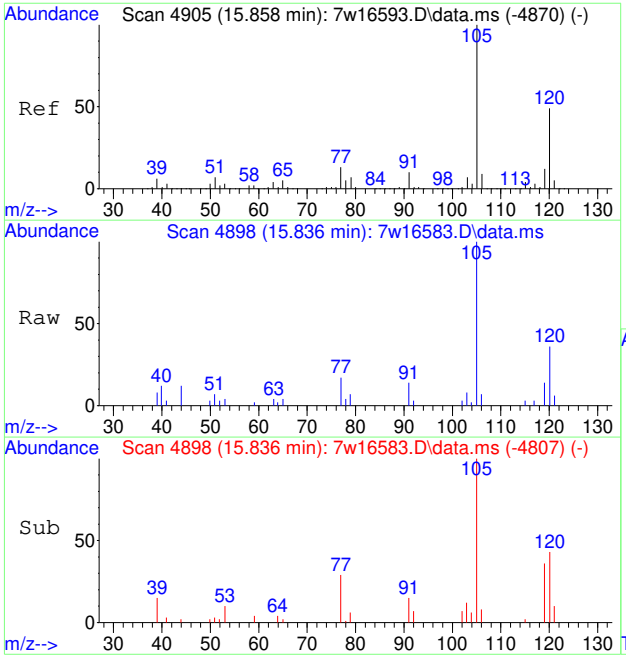


#92
4-ETHYLTOLUENE
Concen: 0.18 PPBV
RT: 15.572 min Scan# 4816
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 13365

Ion	Ratio	Lower	Upper
105	100		
120	28.9	21.8	40.4
119	1.9	1.7	3.1

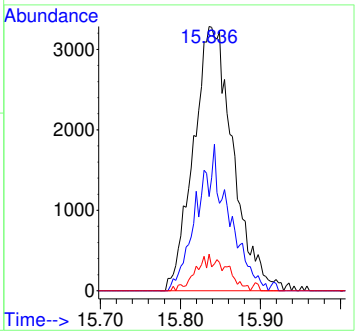


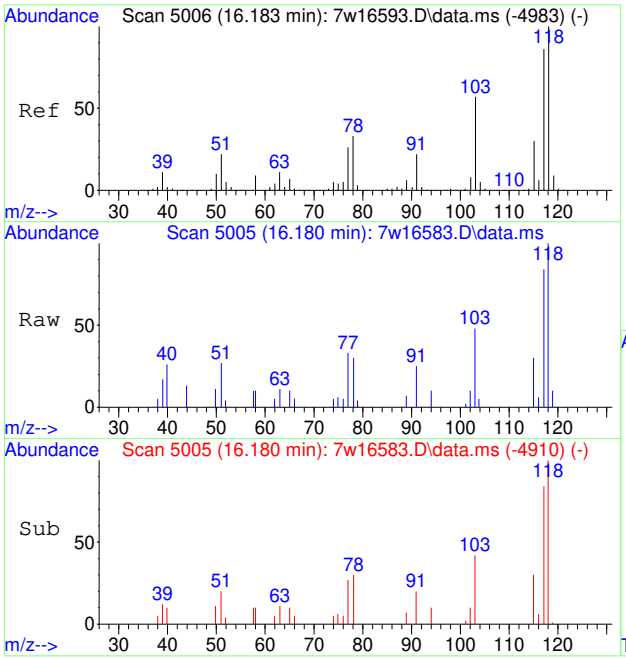


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 15.836 min Scan# 4898
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11247

Ion	Ratio	Lower	Upper
105	100		
120	45.0	37.2	69.2
91	6.7	7.5	13.9#

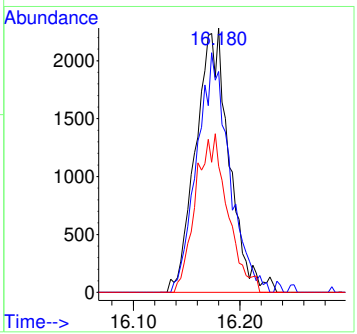


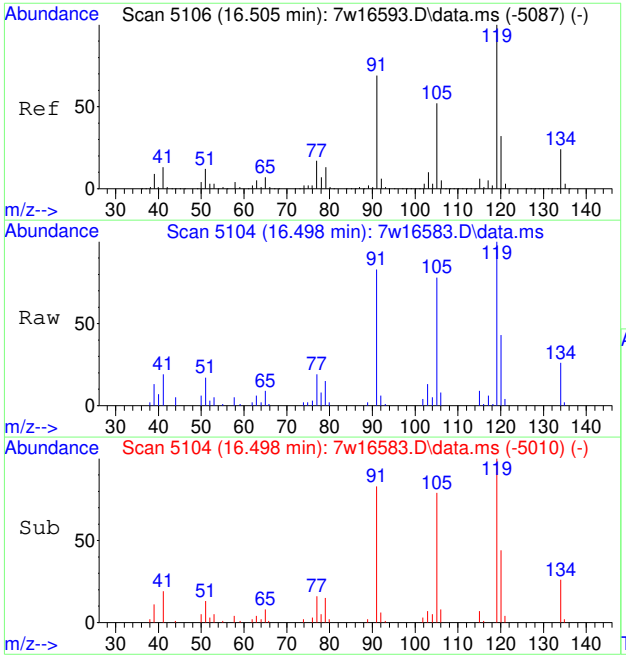


#94
ALPHA-METHYLSTYRENE
Concen: 0.15 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:118 Resp: 4973

Ion	Ratio	Lower	Upper
118	100		
117	88.5	59.9	111.3
103	57.2	36.2	67.2

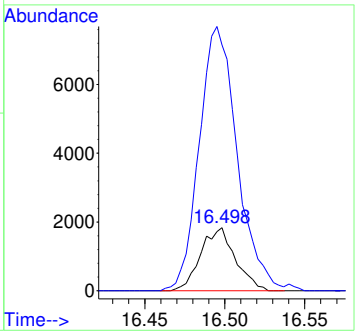


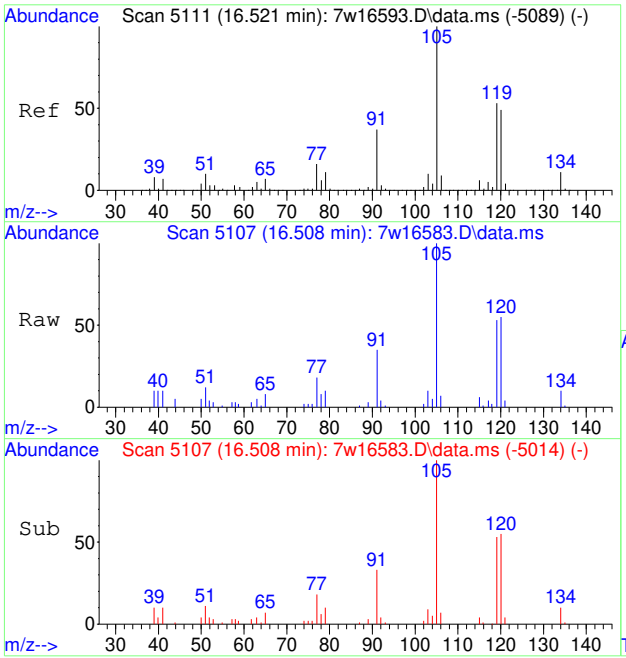


#95
TERT-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 2760

Ion	Ratio	Lower	Upper
134	100		
119	461.8	307.9	571.7

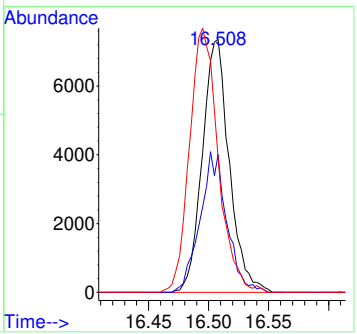


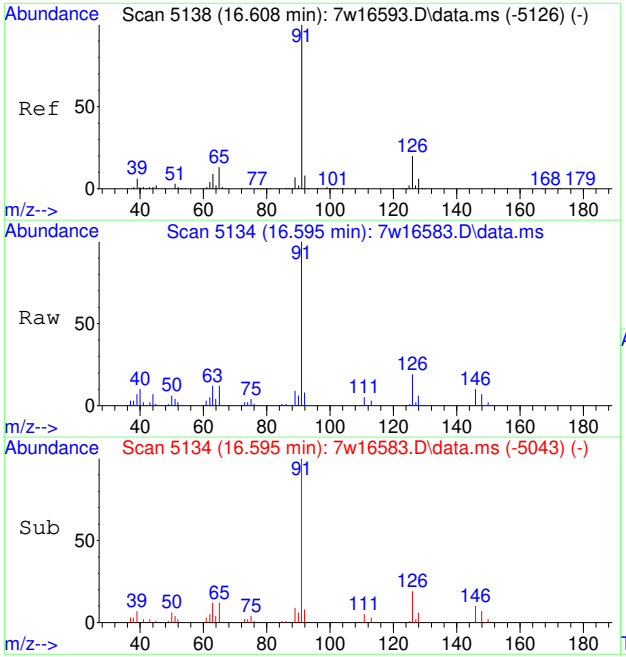


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11478

Ion	Ratio	Lower	Upper
105	100		
120	55.1	40.9	75.9
119	111.0	78.0	144.8

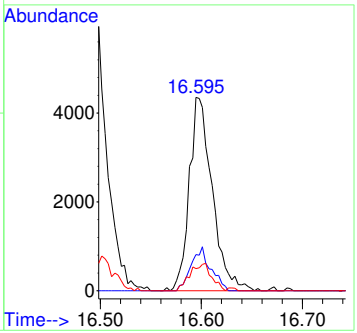


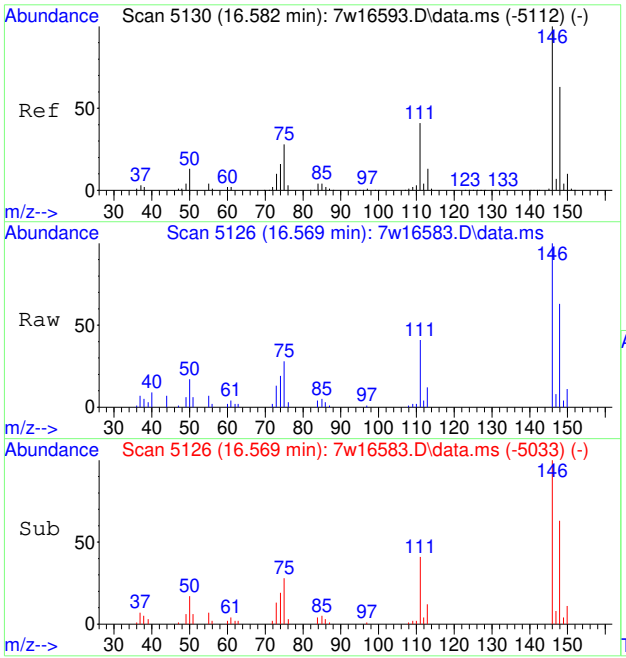


#97
BENZYL CHLORIDE
Concen: 0.13 PPBV
RT: 16.595 min Scan# 5134
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 6914

Ion	Ratio	Lower	Upper
91	100		
126	19.2	17.2	32.0
65	13.7	7.3	13.7#

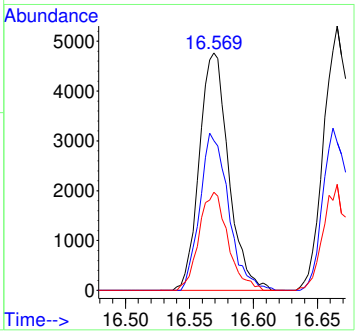


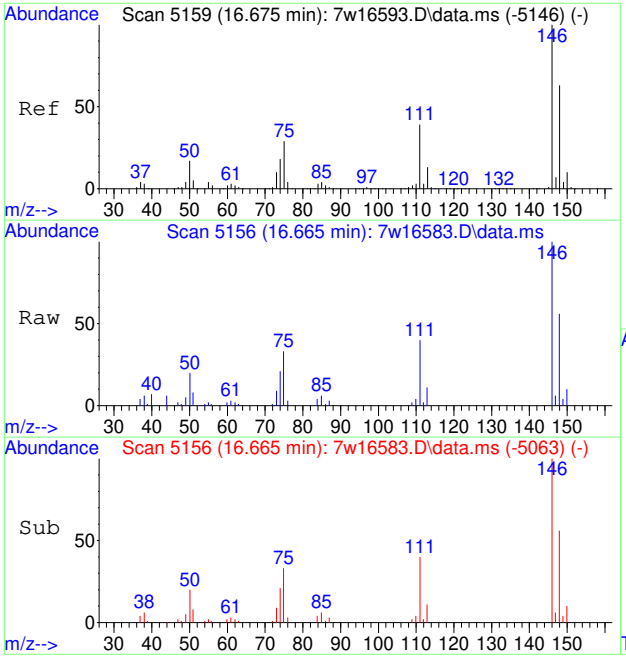


#98
M-DICHLOROBENZENE
Concen: 0.18 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7589

Ion	Ratio	Lower	Upper
146	100		
148	64.8	44.2	82.2
111	40.8	25.4	47.2

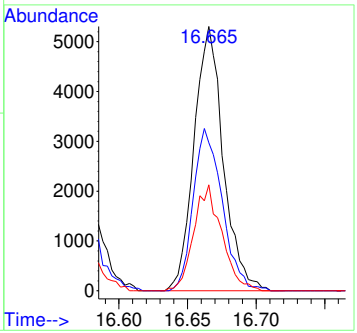


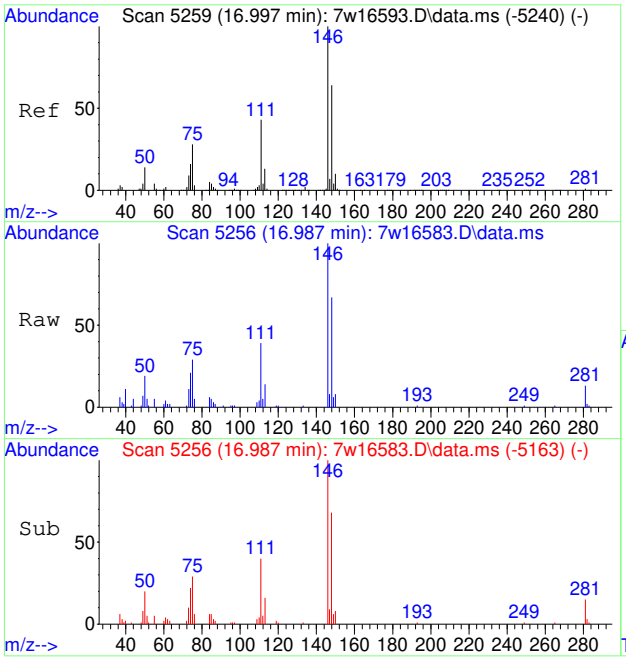


#99
P-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7856

Ion	Ratio	Lower	Upper
146	100		
148	61.0	44.7	82.9
111	38.6	24.8	46.1

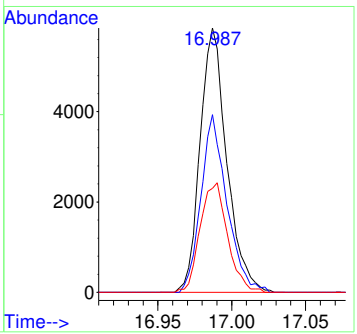


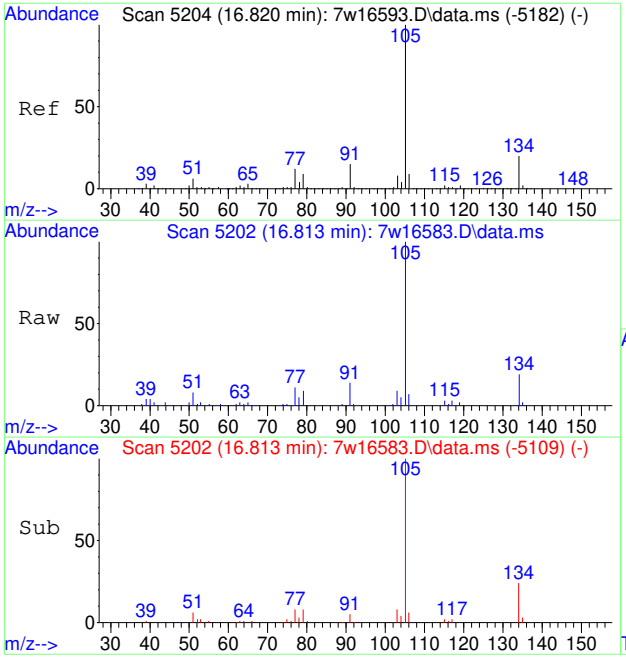


#100
O-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7325

Ion	Ratio	Lower	Upper
146	100		
148	65.4	44.6	82.8
111	42.7	26.9	50.1

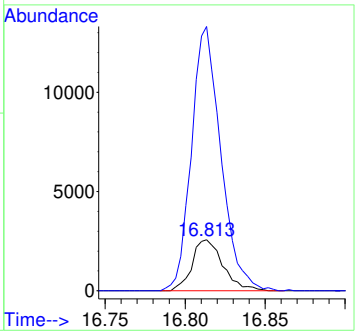


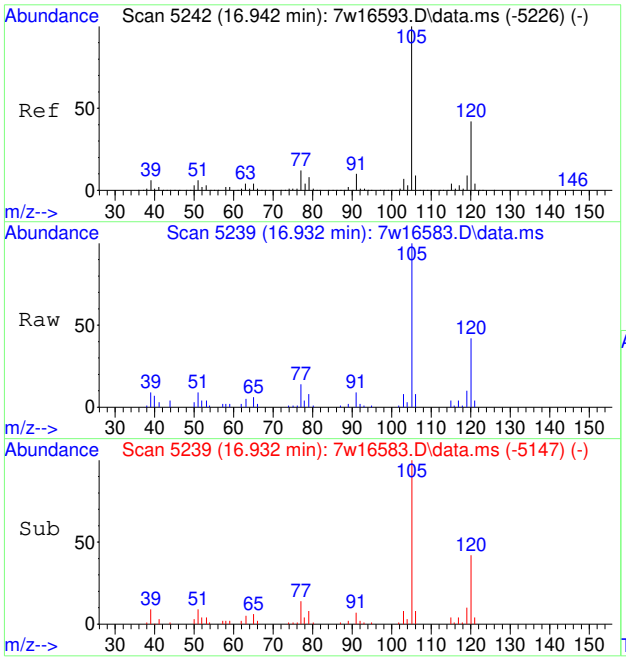


#101
SEC-BUTYLBENZENE
Concen: 0.19 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3439

Ion	Ratio	Lower	Upper
134	100		
105	494.3	314.4	584.0

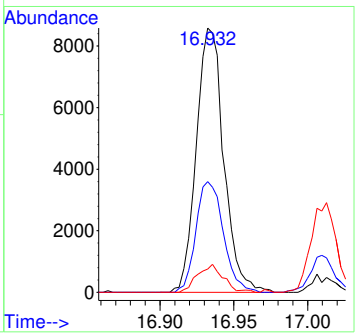


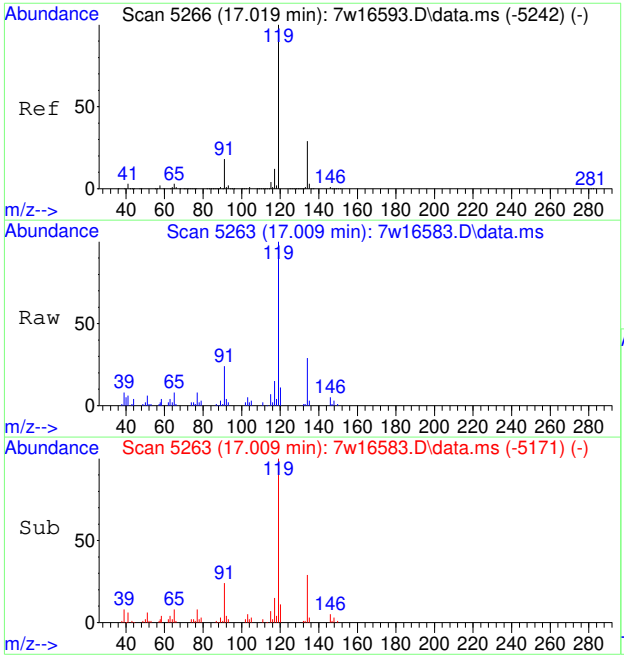


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11073

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

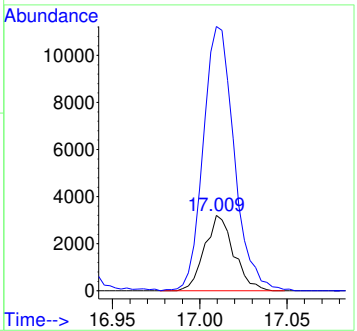


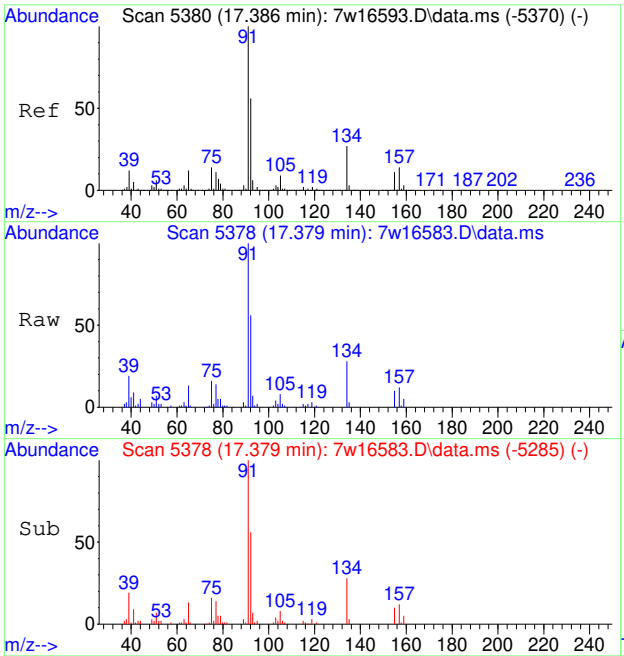


#103
P-ISOPROPYLTOLUENE
Concen: 0.18 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3722

Ion	Ratio	Lower	Upper
134	100		
119	372.9	253.7	471.3

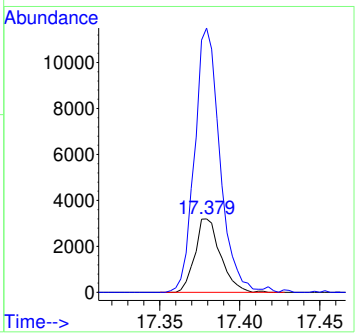


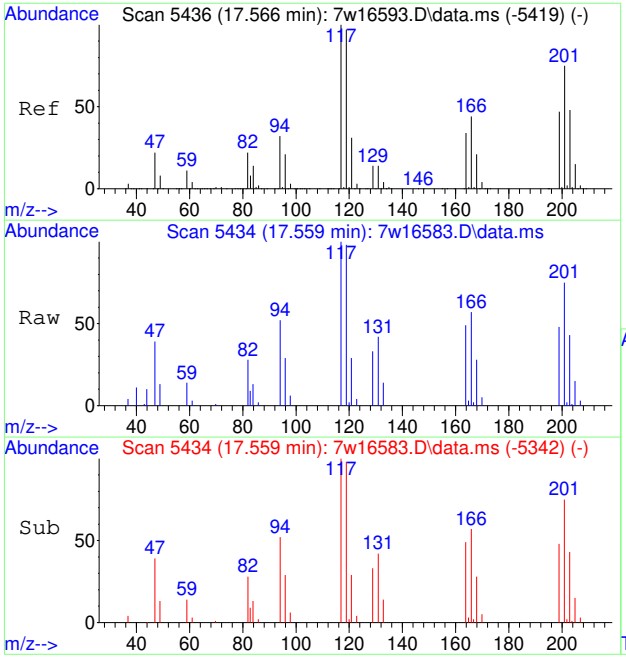


#104
N-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3557

Ion	Ratio	Lower	Upper
134	100		
91	358.3	231.1	429.1

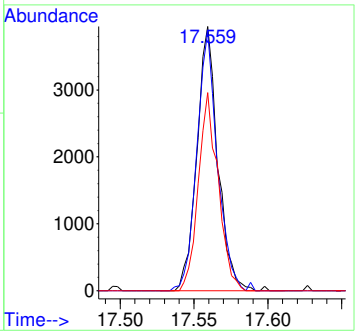


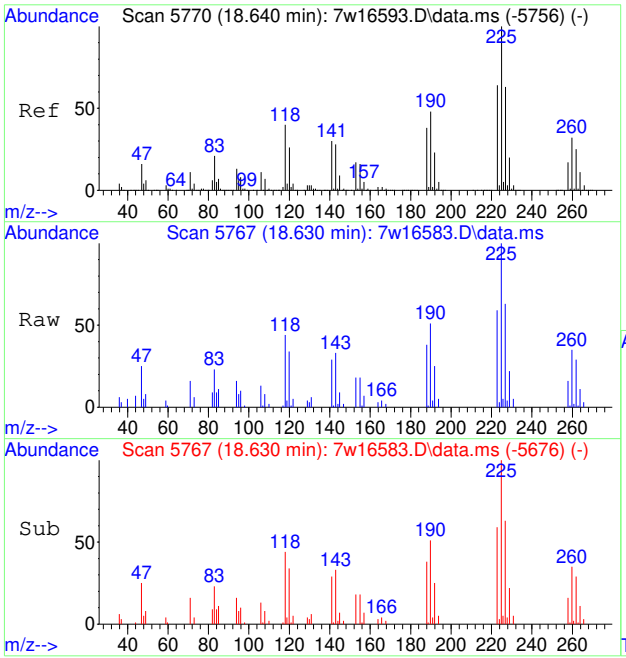


#105
HEXACHLOROETHANE
Concen: 0.16 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3887

Ion	Ratio	Lower	Upper
117	100		
119	96.9	68.3	126.9
201	70.9	45.9	85.3

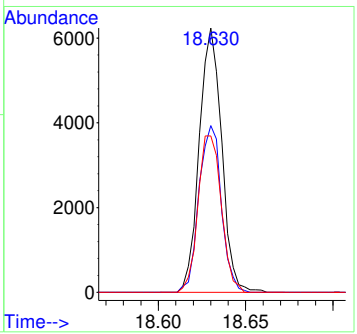


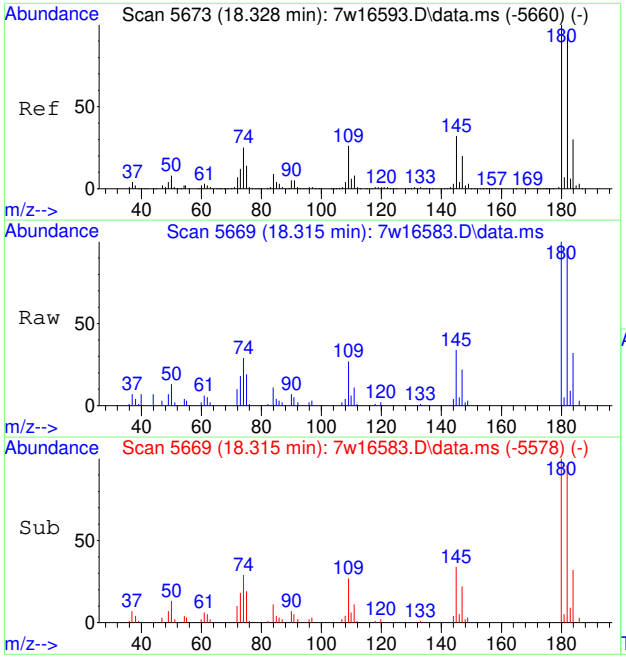


#106
HEXACHLOROBUTADIENE
Concen: 0.21 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:225 Resp: 5583

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.4	82.5
223	61.5	44.7	83.1

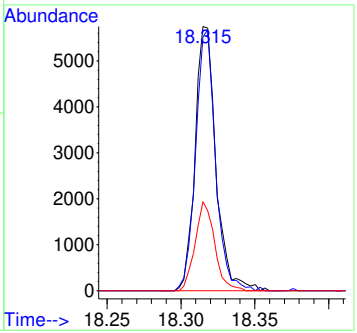


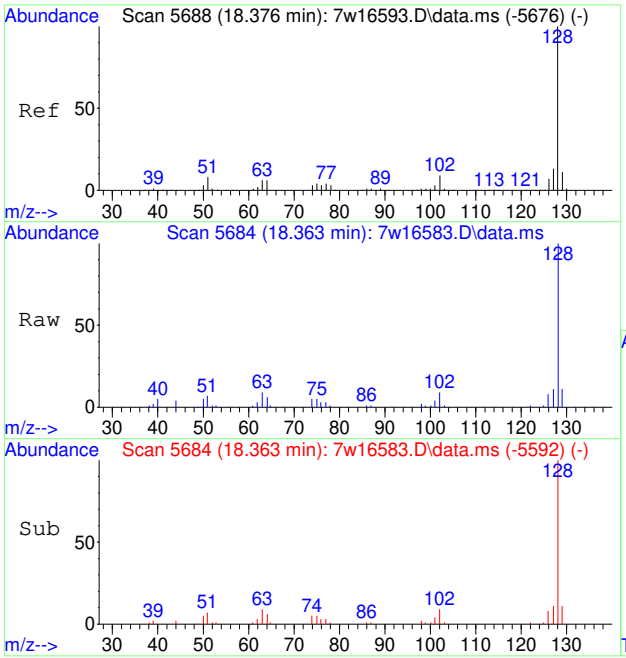


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.16 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:180 Resp: 5618

Ion	Ratio	Lower	Upper
180	100		
182	94.3	66.8	124.0
145	31.6	23.1	42.9

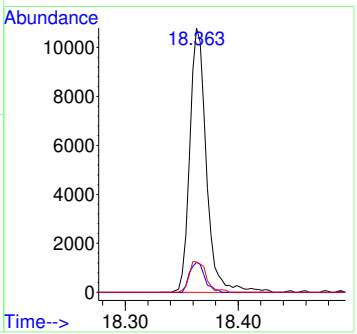


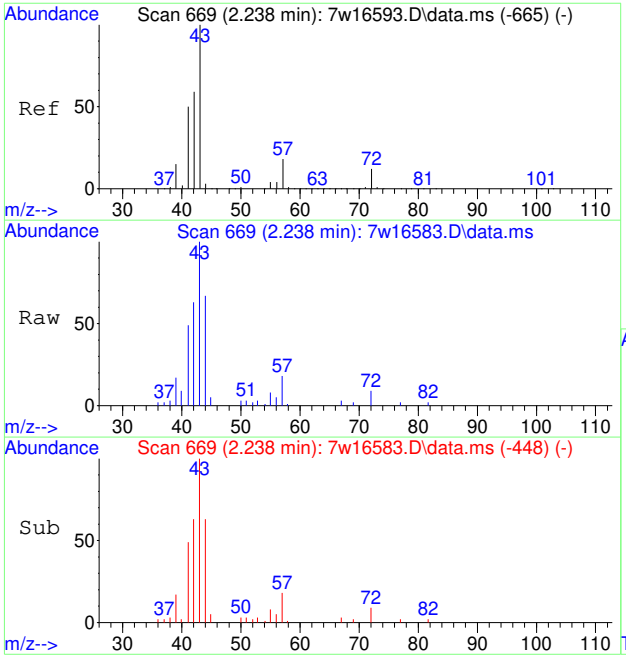


#108
NAPHTHALENE
Concen: 0.14 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:128 Resp: 11029

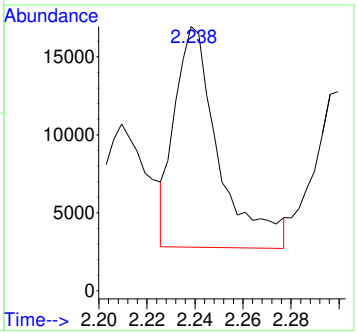
Ion	Ratio	Lower	Upper
128	100		
129	10.4	7.3	13.7
127	12.1	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.28 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:TIC Resp: 17908



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16583.D
Injection Time: 08/07/25 08:36

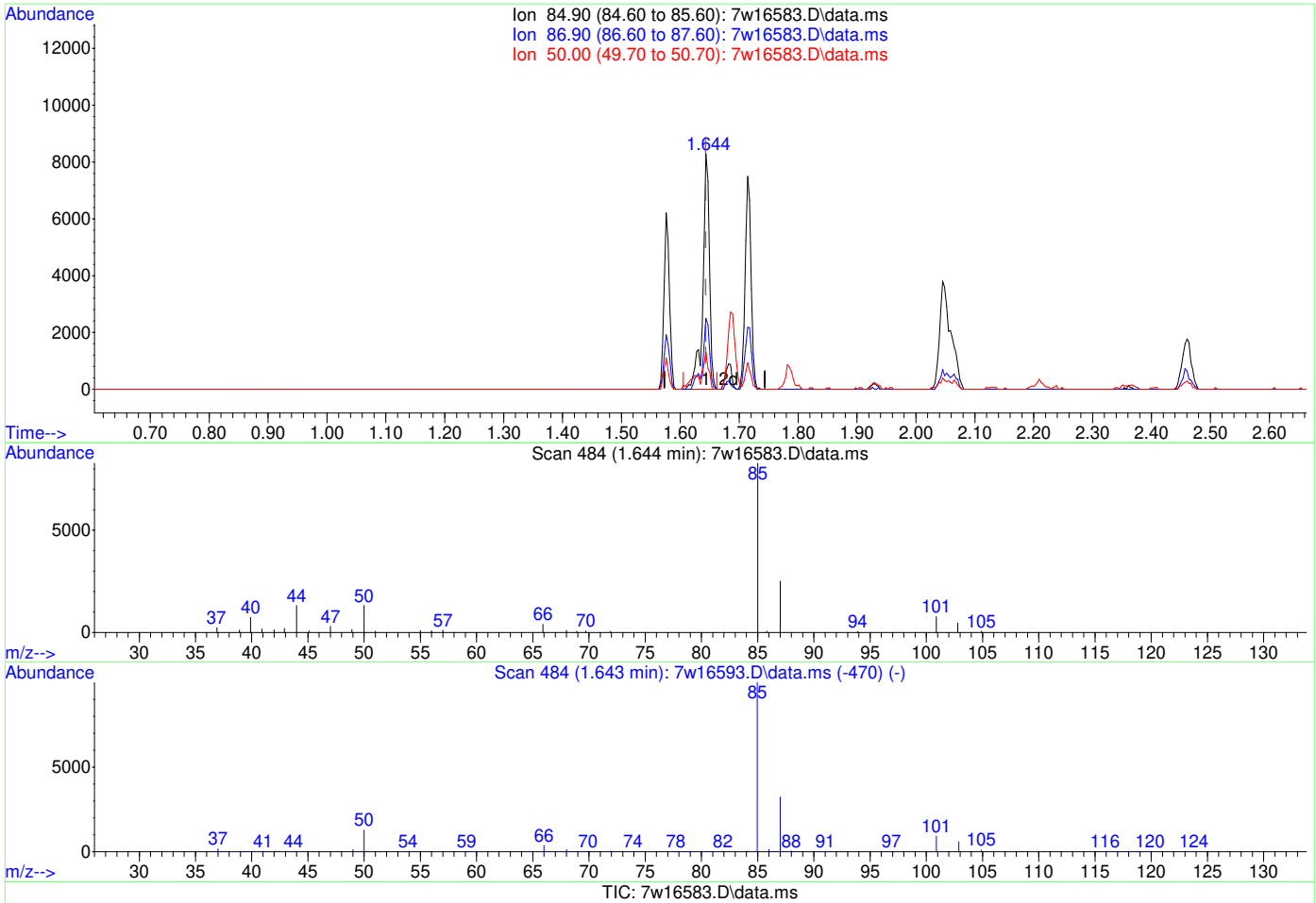
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.19PPBV

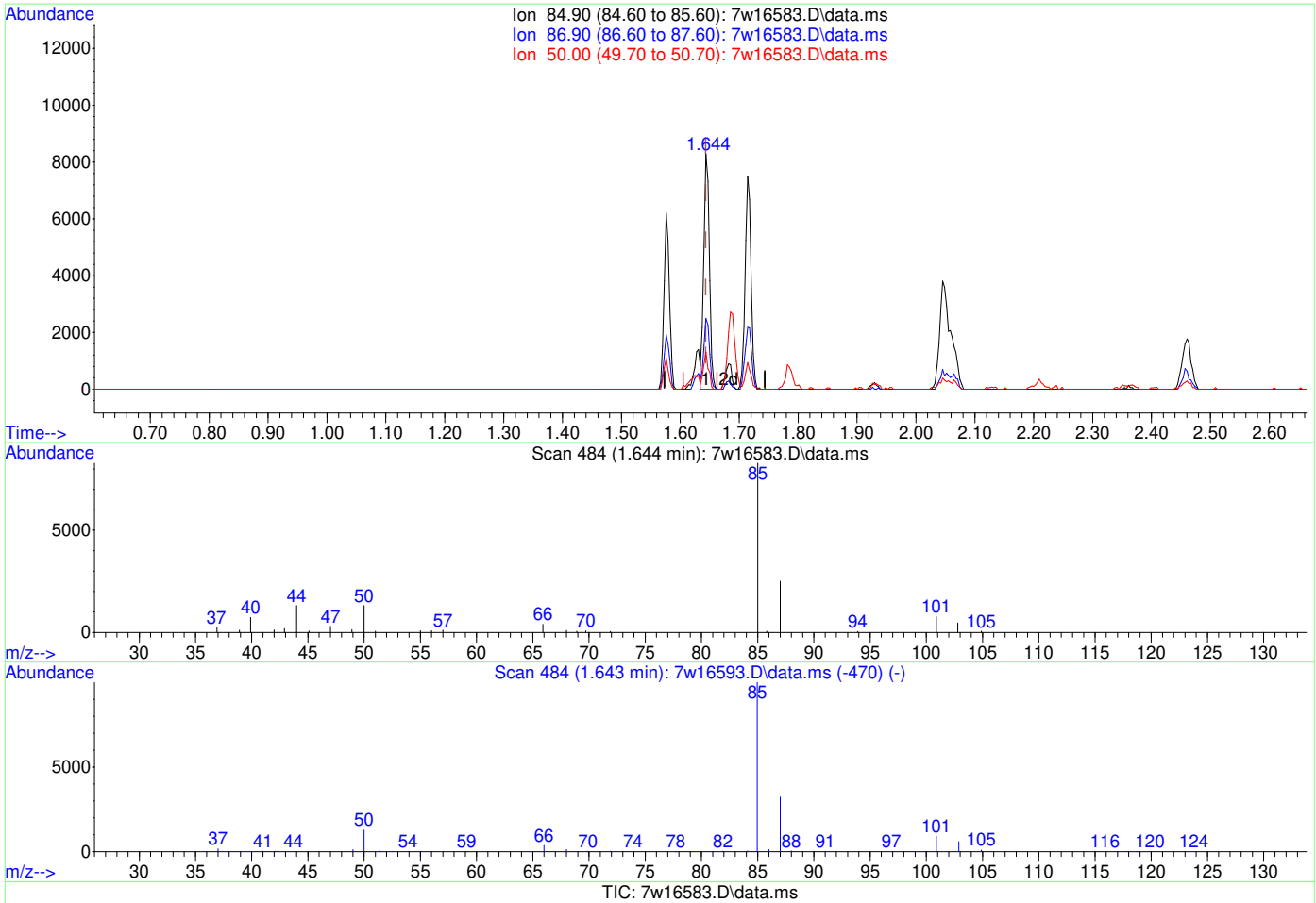
response 6418

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	31.93
50.00	17.30	21.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.16PPBV m

response 5428

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	37.75
50.00	17.30	25.00#
0.00	0.00	0.00

7W16583.D edits: DICHLORODIFLUOROMETHANE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114041	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	577981	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	540711	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114041	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	422778	9.61	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	6776	0.46	PPBV		84
3) FREON 152A	1.608	65	3692	0.53	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	1804	0.56	PPBV		94
5) CHLOROTRIFLUOROETHENE	1.628	116	7994	0.51	PPBV		73
6) DICHLORODIFLUOROMETHANE	1.644	85	14890m	0.44	PPBV		
7) PROPYLENE	1.628	41	4672	0.52	PPBV		94
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	13815	0.54	PPBV		96
9) FREON 114	1.714	85	15094	0.51	PPBV		84
10) CHLOROMETHANE	1.685	52	1982	0.52	PPBV		98
11) VINYL CHLORIDE	1.747	62	7044	0.49	PPBV		97
12) 1,3-BUTADIENE	1.785	54	5673	0.51	PPBV	#	73
13) N-BUTANE	1.798	43	10254	0.54	PPBV	#	83
14) BROMOMETHANE	1.856	94	5311	0.49	PPBV		94
15) CHLOROETHANE	1.904	64	3739	0.50	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	13156	0.49	PPBV		97
17) ACETONITRILE	1.997	41	6126	0.52	PPBV		93
18) ACROLEIN	2.033	56	3496	0.57	PPBV		99
19) FREON 123	2.049	83	14538	0.53	PPBV		97
20) FREON 123A	2.065	117	8271	0.51	PPBV	#	48
21) TRICHLOROFLUOROMETHANE	2.129	101	16036	0.51	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	14702	0.56	PPBV		89
23) ACETONE	2.075	58	4031	0.56	PPBV		67
24) PENTANE	2.242	42	7252	0.54	PPBV	#	86
25) IODOMETHANE	2.300	142	15067	0.52	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.329	96	6087	0.52	PPBV	#	55
27) CARBON DISULFIDE	2.460	76	17823	0.53	PPBV		96
28) ETHANOL	1.936	45	3995	0.60	PPBV	#	94
29) BROMOETHENE	2.004	106	5459	0.48	PPBV		98
30) ACRYLONITRILE	2.210	52	5767	0.58	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	5842	0.53	PPBV	#	74
32) 3-CHLOROPROPENE	2.406	76	3137	0.50	PPBV	#	72
33) FREON 113	2.460	151	9645	0.53	PPBV		86
34) TRANS-1,2-DICHLOROETHENE	2.689	96	6513	0.51	PPBV	#	61
35) TERTIARY BUTYL ALCOHOL	2.345	59	15020	0.47	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	18863	0.52	PPBV	#	90
37) TETRAHYDROFURAN	3.483	72	2906	0.48	PPBV		79
38) HEXANE	3.242	57	12572	0.52	PPBV		83
39) VINYL ACETATE	2.827	86	1605	0.45	PPBV	#	82
40) 1,1-DICHLOROETHANE	2.759	63	12723	0.50	PPBV		98
41) METHYL ETHYL KETONE	2.927	72	3223	0.49	PPBV	#	79
42) CIS-1,2-DICHLOROETHENE	3.116	96	6837	0.51	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	3577	0.51	PPBV		100
44) ETHYL ACETATE	3.255	61	2292	0.47	PPBV		85
45) METHYL ACRYLATE	3.238	55	15089	0.50	PPBV	#	98
46) CHLOROFORM	3.258	83	14039	0.53	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	14638	0.53	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	13952	0.51	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	13931	0.47	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	10566	0.51	PPBV		99
51)	BENZENE	4.126	78	19953	0.51	PPBV		90
53)	CYCLOHEXANE	4.332	84	9049	0.51	PPBV	#	72
54)	2,3-DIMETHYLPENTANE	4.582	71	4648	0.51	PPBV		64
55)	TRICHLOROETHENE	5.017	95	9226	0.49	PPBV		85
56)	1,2-DICHLOROPROPANE	4.782	63	8549	0.51	PPBV		91
57)	DIBROMOMETHANE	4.743	174	7819	0.51	PPBV		91
58)	ETHYL ACRYLATE	4.904	55	18149	0.48	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.959	83	14412	0.46	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	40435	0.51	PPBV	#	93
61)	1,4-DIOXANE	5.062	88	4245	0.45	PPBV	#	72
62)	HEPTANE	5.418	43	13738	0.52	PPBV		88
63)	METHYL METHACRYLATE	5.322	69	7482	0.49	PPBV		87
64)	METHYL ISOBUTYL KETONE	6.049	58	7119	0.46	PPBV		87
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	11946	0.45	PPBV		99
66)	TOLUENE	7.126	91	24682	0.51	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	12380	0.50	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	10011	0.41	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	7248	0.51	PPBV		92
70)	2-HEXANONE	7.708	58	9642	0.47	PPBV	#	81
71)	ETHYL METHACRYLATE	7.833	69	12576	0.48	PPBV		91
72)	TETRACHLOROETHENE	8.836	164	9191	0.52	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.663	129	12752	0.43	PPBV		97
74)	1,2-DIBROMOETHANE	7.994	107	13213	0.52	PPBV		99
75)	OCTANE	8.994	43	18440	0.51	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.052	131	9977	0.47	PPBV		90
78)	CHLOROBENZENE	10.045	112	20418	0.52	PPBV		90
79)	ETHYLBENZENE	10.917	91	33108	0.52	PPBV		96
80)	M,P-XYLENE	11.347	91	51511	1.00	PPBV		98
81)	O-XYLENE	12.273	91	26468	0.52	PPBV		97
82)	STYRENE	12.068	104	18750	0.48	PPBV		94
83)	NONANE	13.402	43	19802	0.51	PPBV		81
84)	BROMOFORM	11.155	173	10827	0.42	PPBV		95
85)	1,1,2,2-TETRACHLOROETHANE	12.286	83	18876	0.51	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.563	75	15262	0.53	PPBV	#	99
88)	ISOPROPYLBENZENE	13.791	120	9713	0.50	PPBV		80
89)	BROMOBENZENE	13.640	77	18640	0.51	PPBV		75
90)	2-CHLOROTOLUENE	14.778	126	8526	0.47	PPBV	#	74
91)	N-PROPYLBENZENE	15.129	120	9669	0.46	PPBV		98
92)	4-ETHYLTOLUENE	15.569	105	36862	0.48	PPBV	#	47
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	30468	0.48	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.174	118	14307	0.44	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	7825	0.51	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.502	105	31128	0.49	PPBV		98
97)	BENZYL CHLORIDE	16.598	91	19459	0.35	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	20646	0.48	PPBV		96
99)	P-DICHLOROBENZENE	16.662	146	20868	0.49	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	19799	0.50	PPBV		95
101)	SEC-BUTYLBENZENE	16.813	134	9482	0.51	PPBV		86
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	30663	0.49	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	10237	0.49	PPBV		94
104)	N-BUTYLBENZENE	17.376	134	9347	0.47	PPBV		76
105)	HEXACHLOROETHANE	17.559	117	10816	0.44	PPBV		97
106)	HEXACHLOROBUTADIENE	18.633	225	14662	0.54	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.318	180	15355	0.44	PPBV		97
108)	NAPHTHALENE	18.366	128	32243	0.40	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	43130	0.69	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

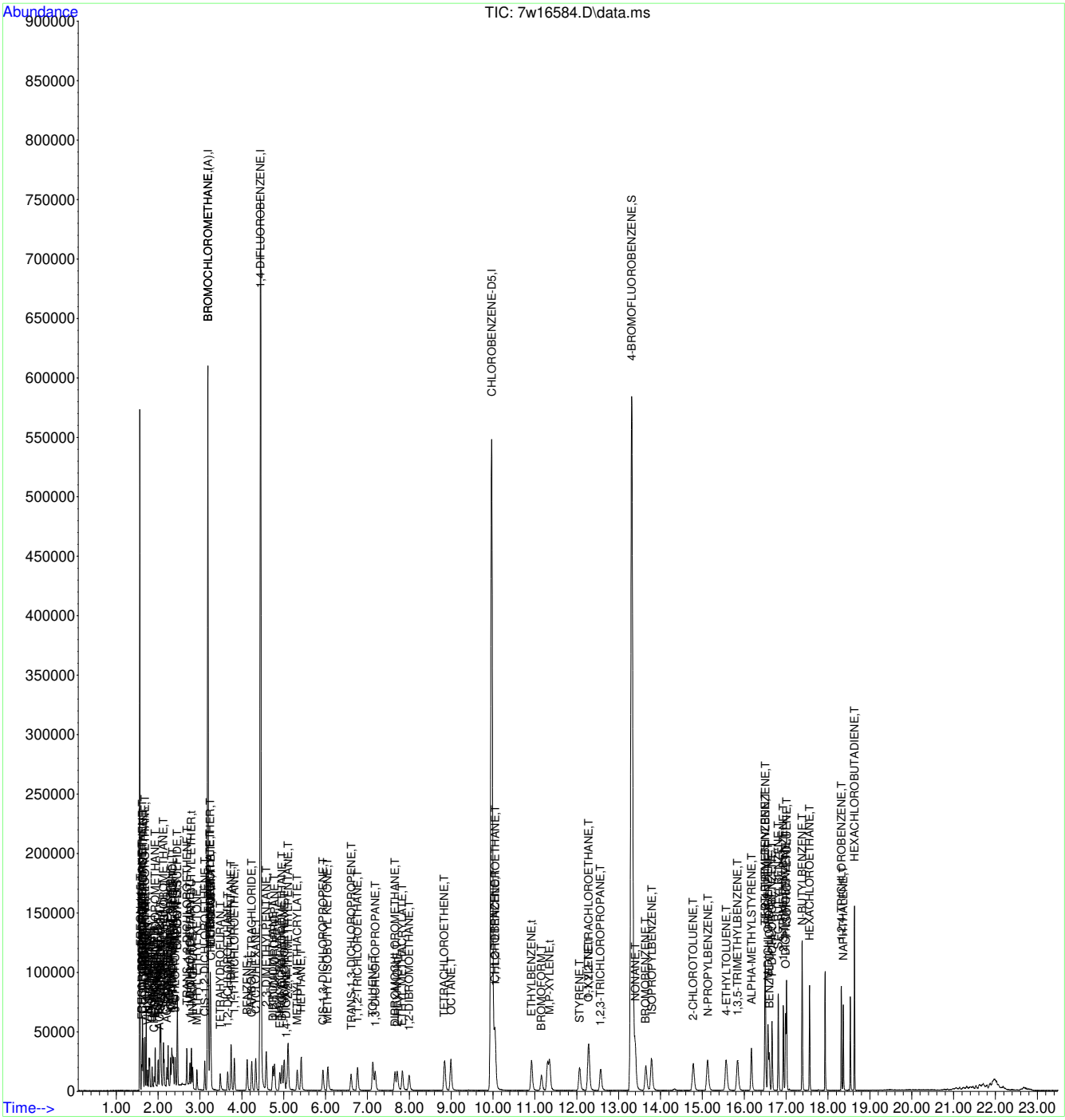
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

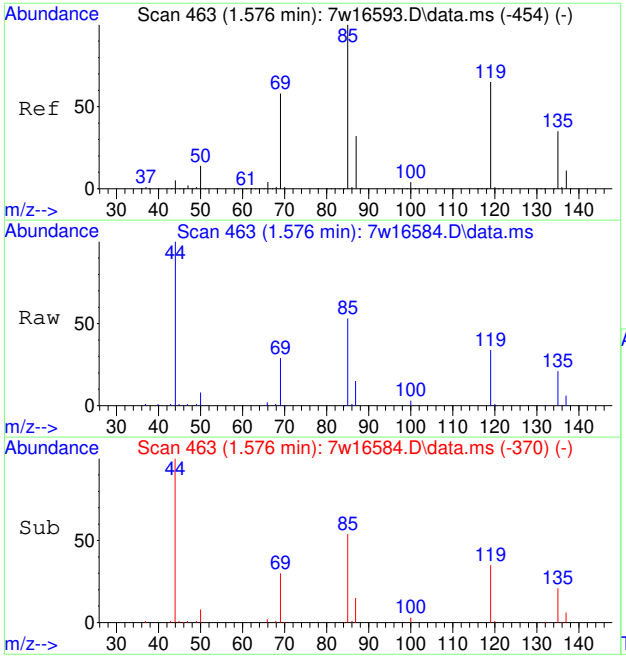
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

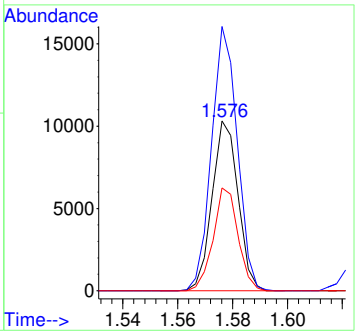


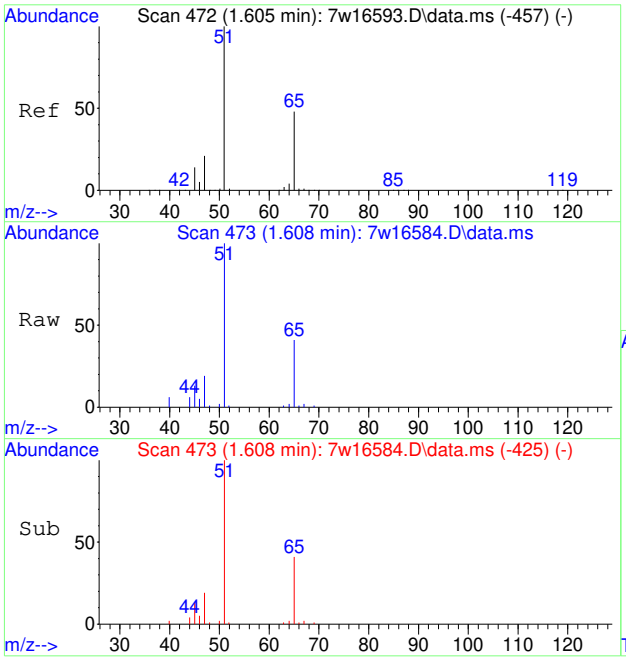


#2
FREON 115
Concen: 0.46 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:119 Resp: 6776

Ion	Ratio	Lower	Upper
119	100		
85	154.0	90.9	168.7
135	58.1	38.2	71.0

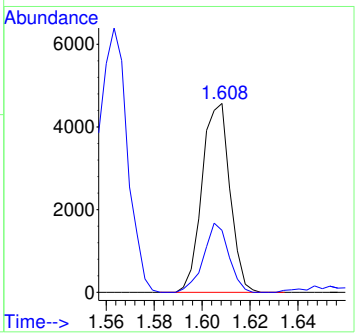


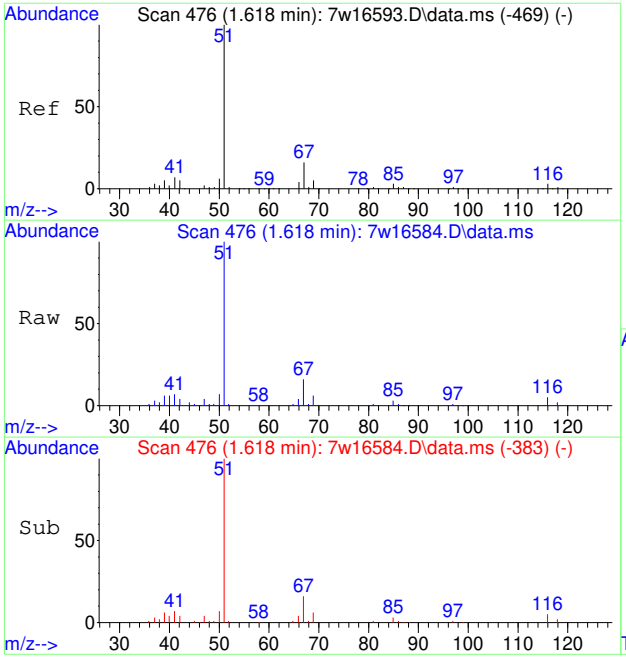


#3
FREON 152A
Concen: 0.53 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 3692

Ion	Ratio	Lower	Upper
65	100		
45	33.0	20.6	38.4

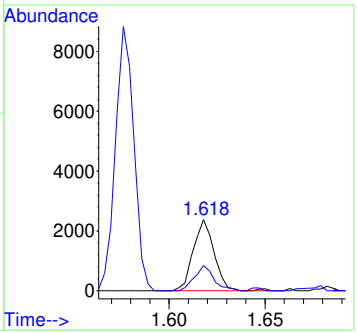


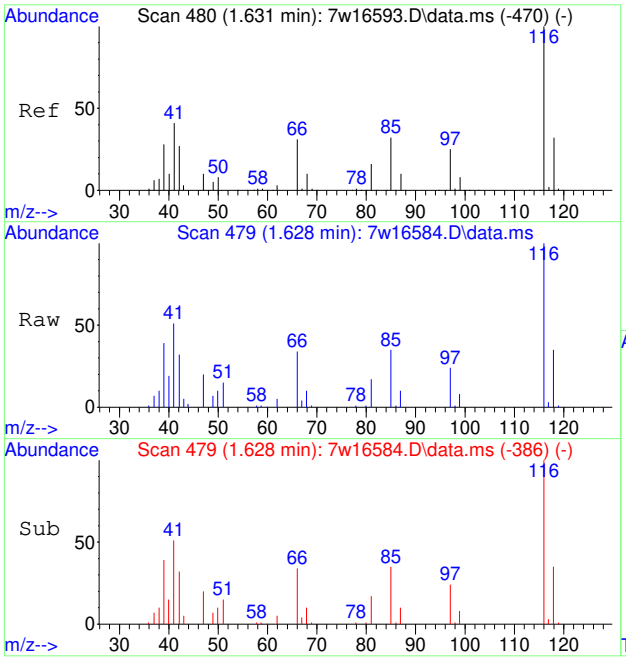


#4
CHLORODIFLUOROMETHANE
Concen: 0.56 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 1804

Ion	Ratio	Lower	Upper
67	100		
69	33.0	25.4	47.2

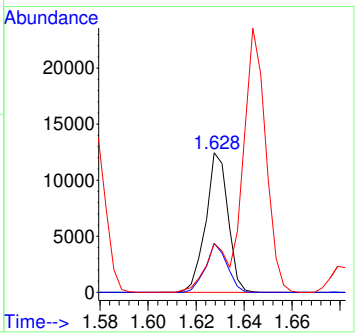


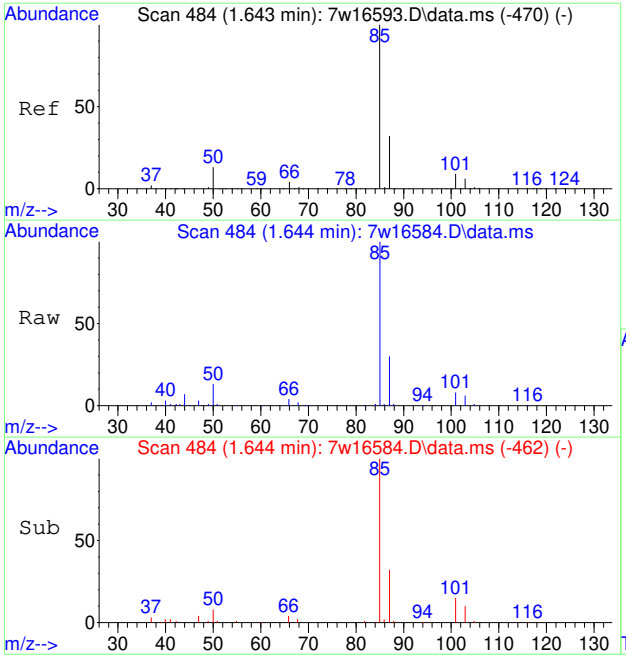


#5
CHLOROTRIFLUOROETHENE
Concen: 0.51 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:116 Resp: 7994

Ion	Ratio	Lower	Upper
116	100		
118	33.8	22.7	42.1
85	221.5	194.7	361.7

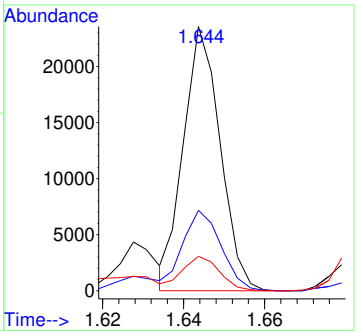


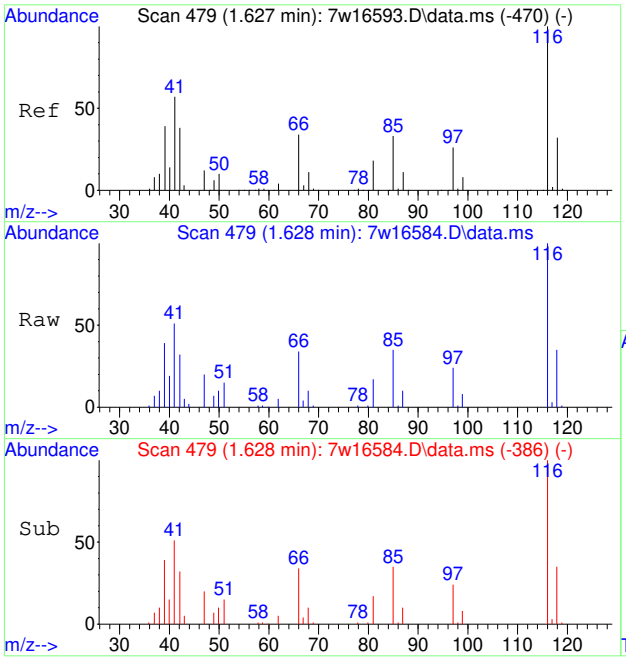


#6
DICHLORODIFLUOROMETHANE
Concen: 0.44 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 14890

Ion	Ratio	Lower	Upper
85	100		
87	38.2	23.1	42.9
50	23.9	12.1	22.5#

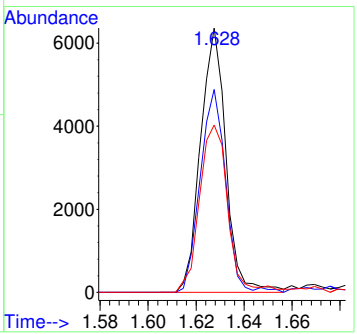


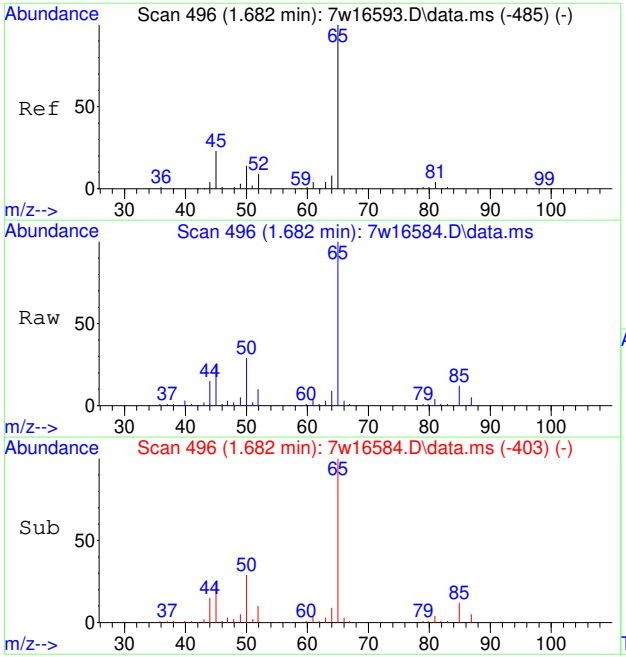


#7
PROPYLENE
Concen: 0.52 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 4672

Ion	Ratio	Lower	Upper
41	100		
39	76.8	51.0	94.8
42	71.9	46.6	86.6

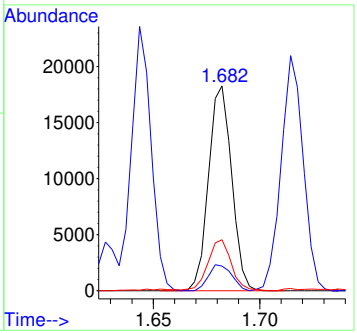


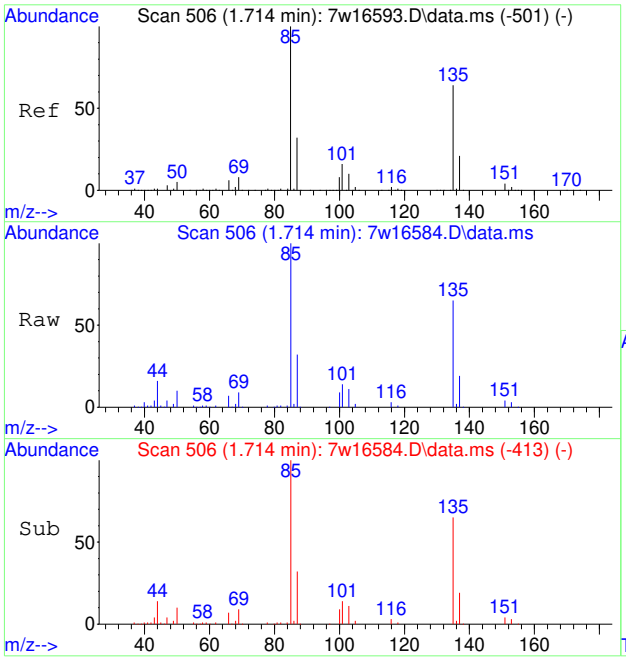


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.54 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 13815

Ion	Ratio	Lower	Upper
65	100		
85	13.0	9.7	17.9
45	26.7	17.0	31.6

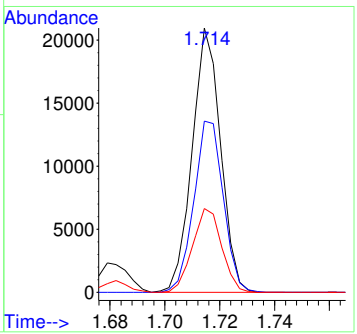


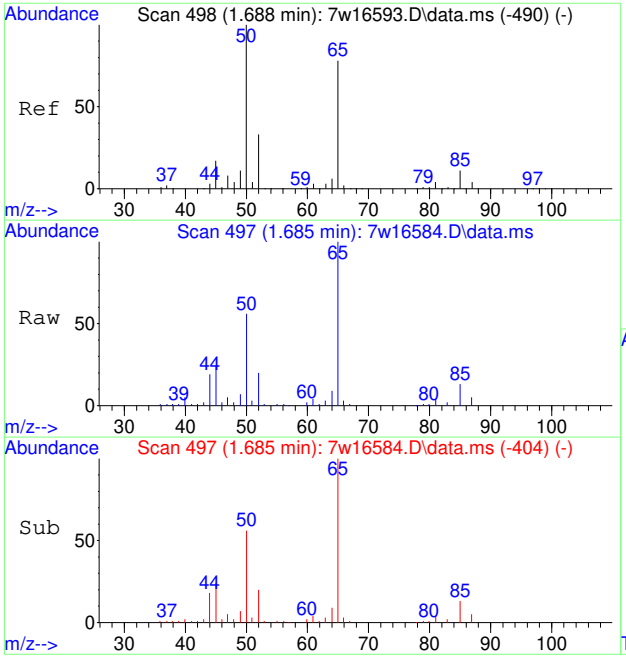


#9
FREON 114
Concen: 0.51 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 15094

Ion	Ratio	Lower	Upper
85	100		
135	67.3	61.3	113.9
87	32.6	23.2	43.0

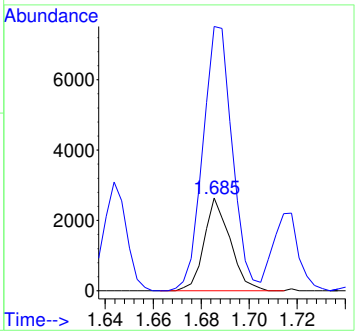


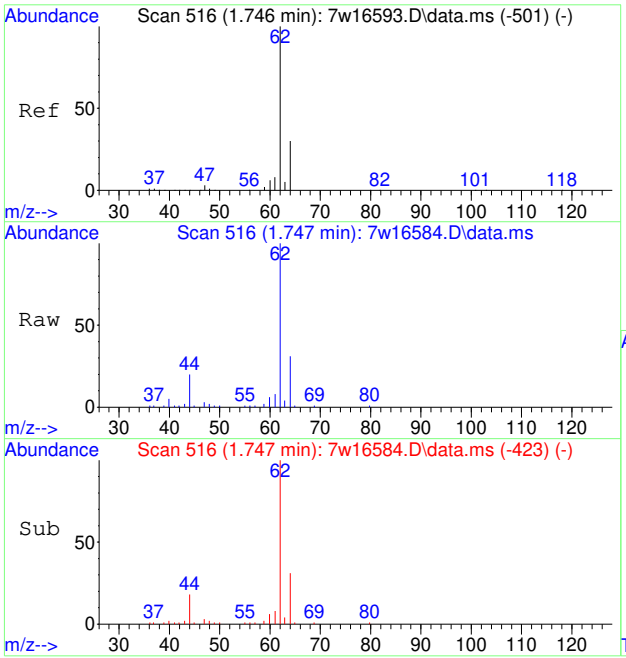


#10
CHLOROMETHANE
Concen: 0.52 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 1982

Ion	Ratio	Lower	Upper
52	100		
50	321.8	227.6	422.6

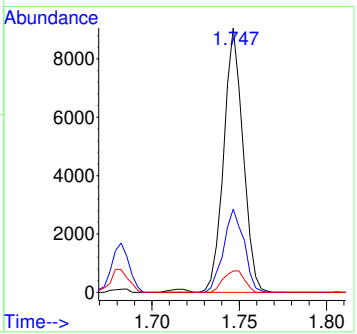


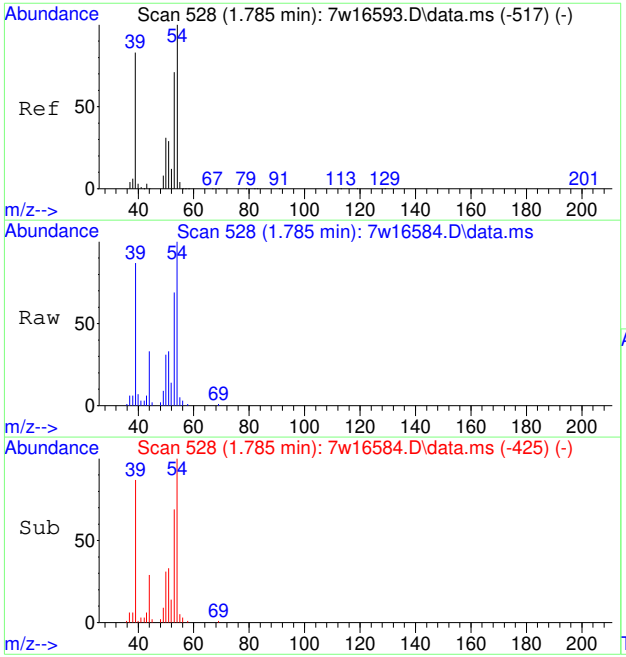


#11
VINYL CHLORIDE
Concen: 0.49 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 7044

Ion	Ratio	Lower	Upper
62	100		
64	33.0	21.6	40.2
61	8.9	5.7	10.7

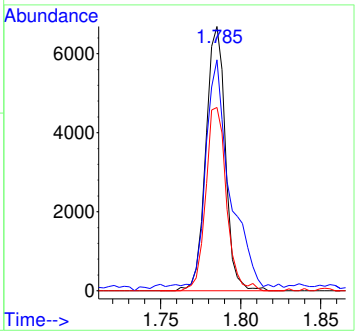


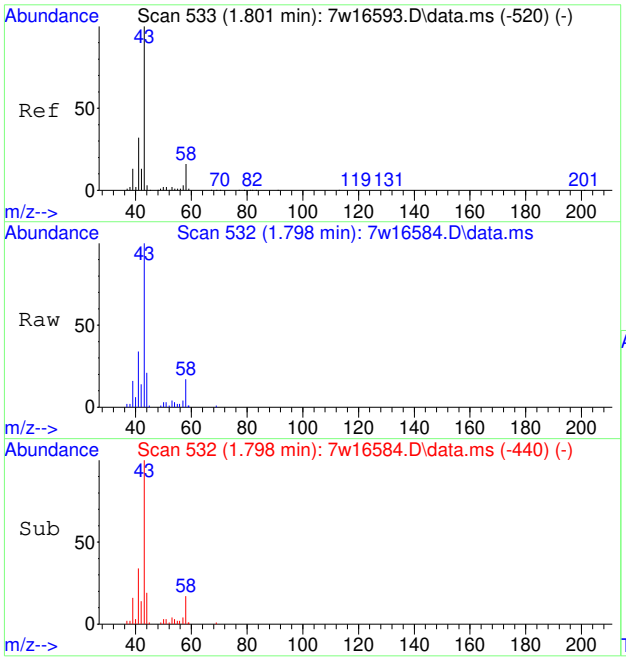


#12
1,3-BUTADIENE
Concen: 0.51 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 54 Resp: 5673

Ion	Ratio	Lower	Upper
54	100		
39	106.7	125.6	185.6#
53	73.4	40.7	100.7

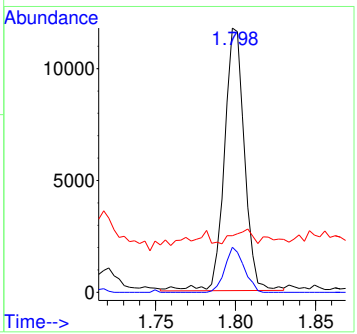


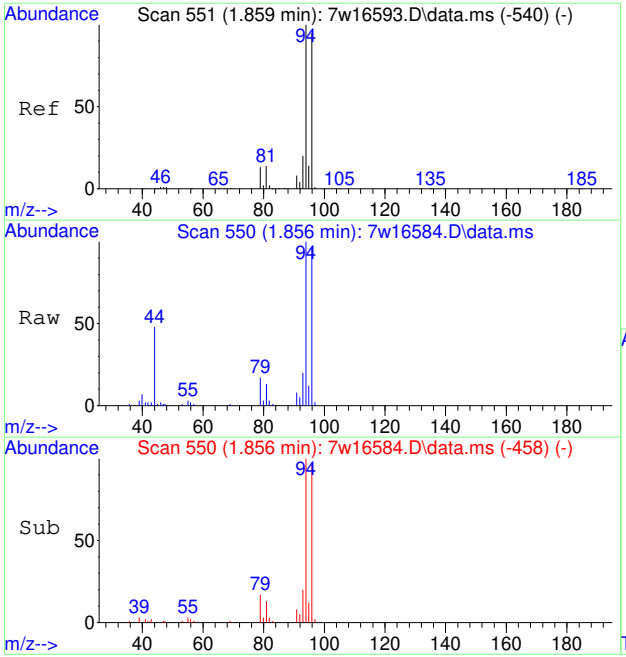


#13
N-BUTANE
Concen: 0.54 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 10254

Ion	Ratio	Lower	Upper
43	100		
58	16.4	10.4	19.4
44	24.5	3.0	5.6#

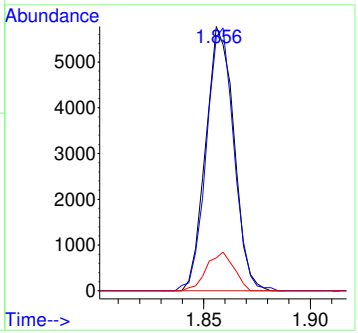


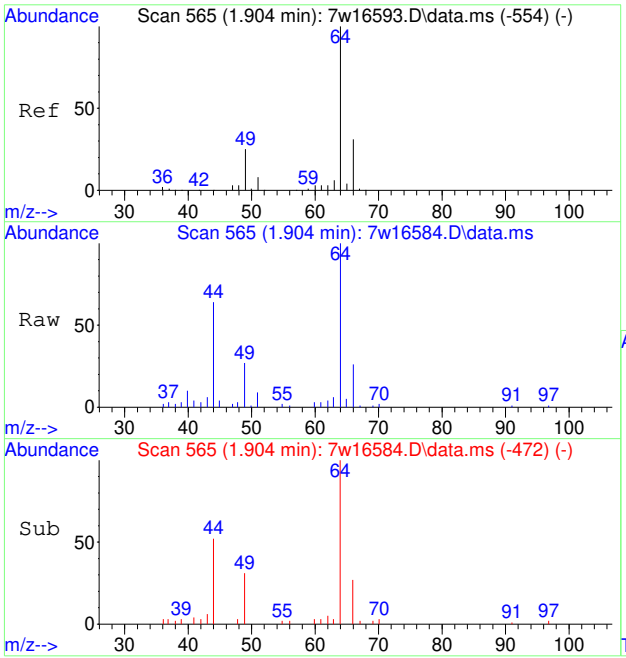


#14
BROMOMETHANE
Concen: 0.49 PPBV
RT: 1.856 min Scan# 550
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 94 Resp: 5311

Ion	Ratio	Lower	Upper
94	100		
96	97.2	63.6	118.0
95	14.2	10.0	18.6

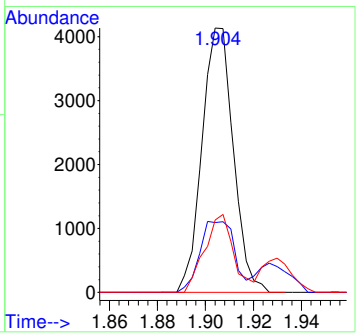


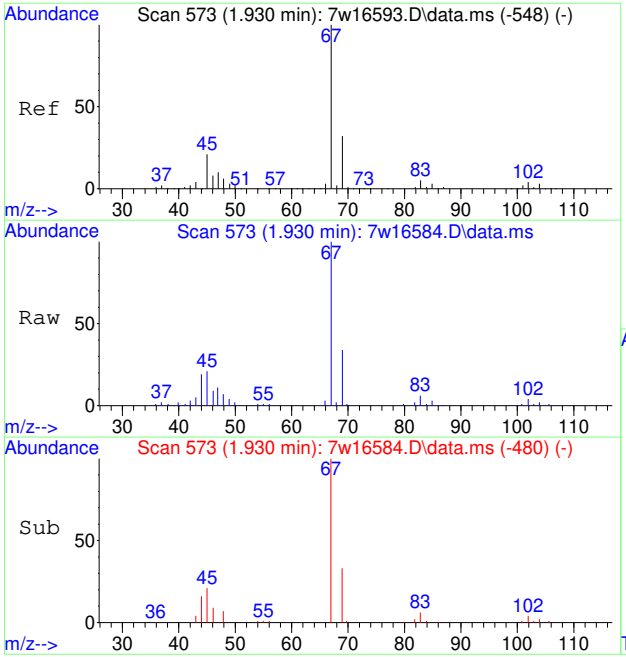


#15
CHLOROETHANE
Concen: 0.50 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 64 Resp: 3739

Ion	Ratio	Lower	Upper
64	100		
66	31.0	23.0	42.6
49	27.5	21.5	39.9

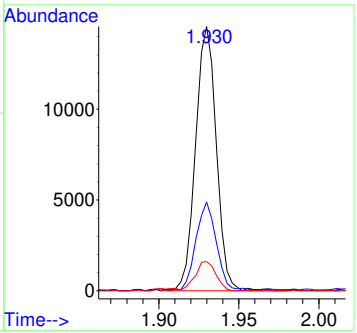


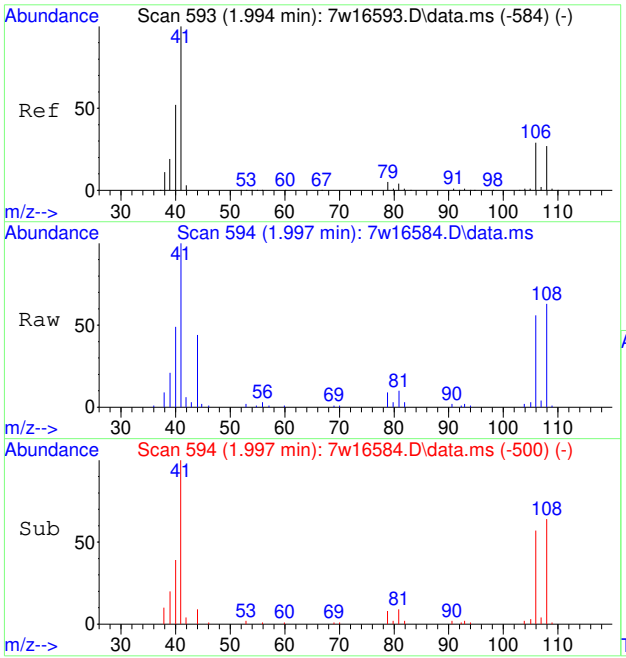


#16
DICHLOROFLUOROMETHANE
Concen: 0.49 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 13156

Ion	Ratio	Lower	Upper
67	100		
69	34.1	23.2	43.0
47	11.9	9.6	17.8

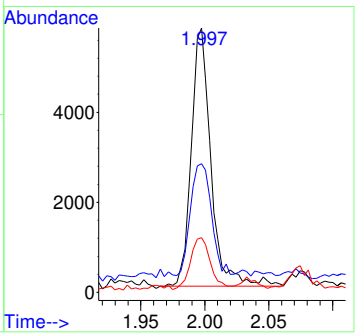




#17
ACETONITRILE
Concen: 0.52 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

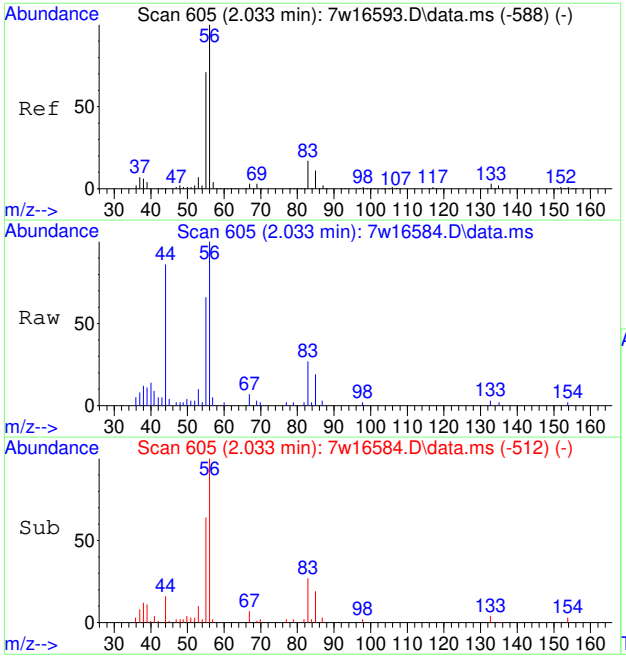
Tgt Ion: 41 Resp: 6126

Ion	Ratio	Lower	Upper
41	100		
40	61.6	38.4	71.4
39	19.6	14.5	26.9



7.7.17

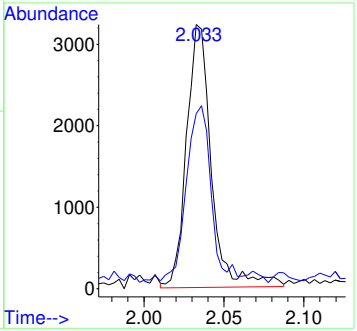
7

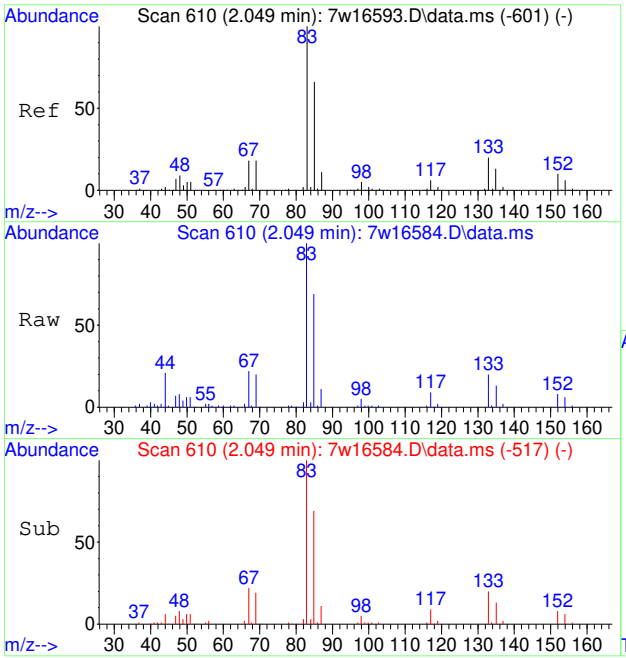


#18
ACROLEIN
Concen: 0.57 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 56 Resp: 3496

Ion	Ratio	Lower	Upper
56	100		
55	72.0	51.2	95.2

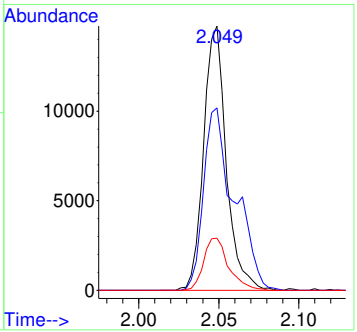


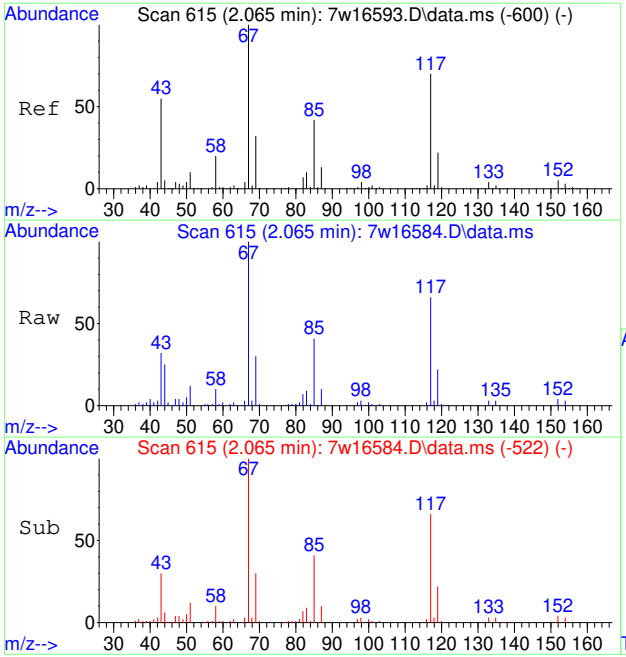


#19
FREON 123
Concen: 0.53 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14538

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.8	19.9	36.9

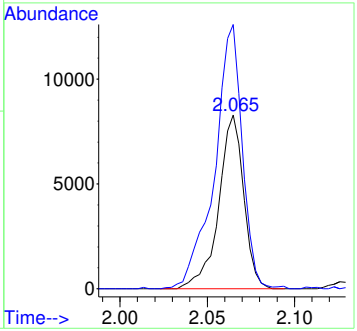


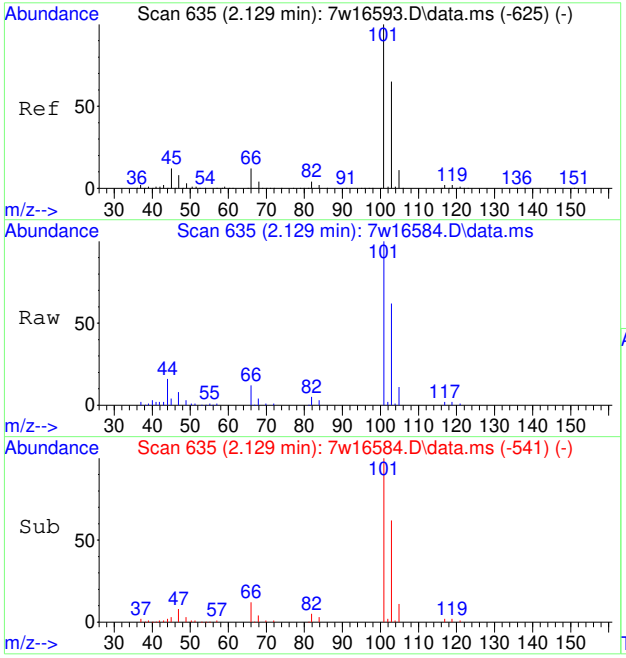


#20
FREON 123A
Concen: 0.51 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 8271

Ion	Ratio	Lower	Upper
117	100		
67	168.6	78.8	146.4#

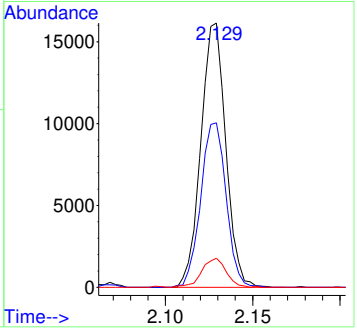


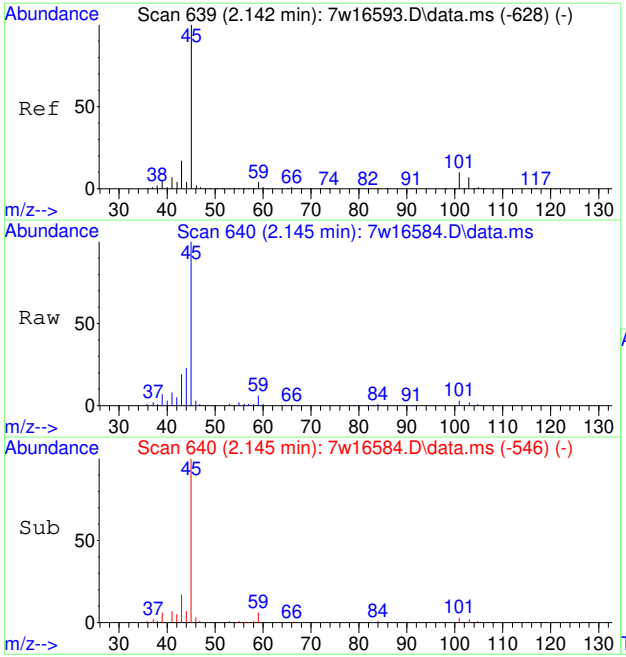


#21
TRICHLOROFLUOROMETHANE
Concen: 0.51 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:101 Resp: 16036

Ion	Ratio	Lower	Upper
101	100		
103	63.5	44.3	82.3
105	11.1	7.3	13.7

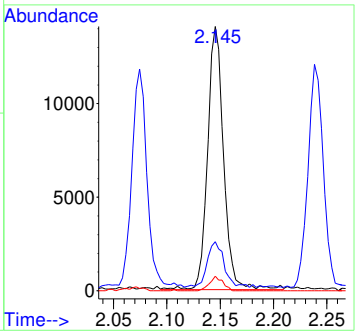


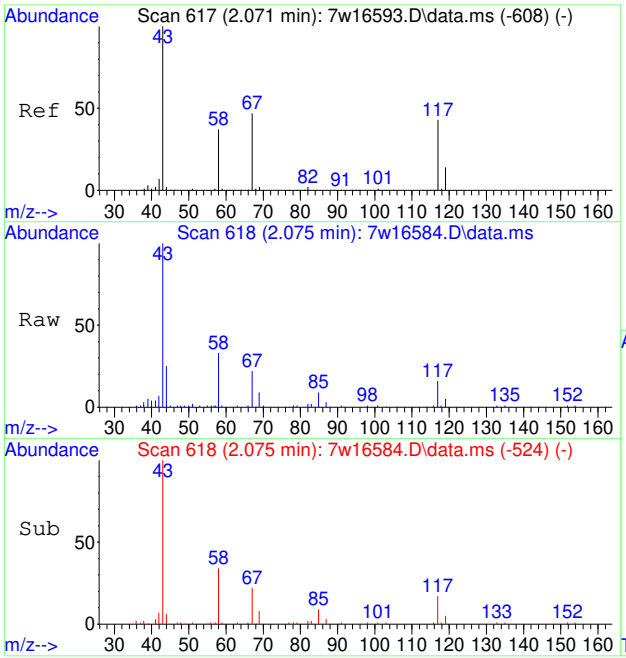


#22
ISOPROPYL ALCOHOL
Concen: 0.56 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 14702

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.5	3.1	5.8

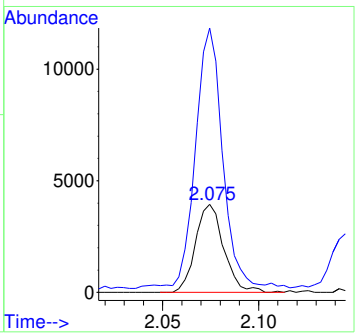


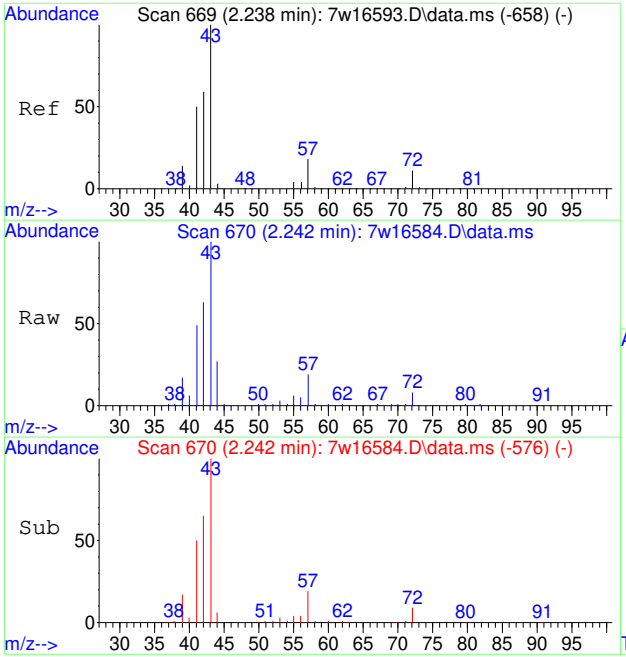


#23
ACETONE
Concen: 0.56 PPBV
RT: 2.075 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 4031

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

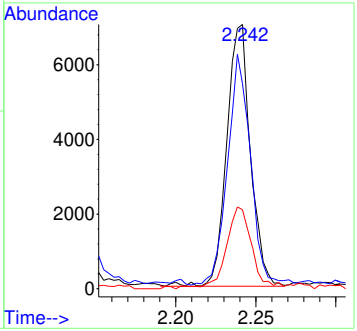


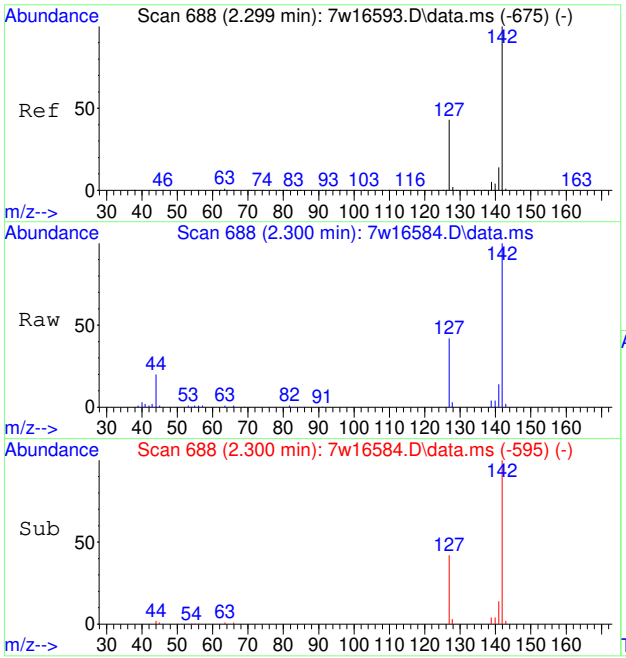


#24
PENTANE
Concen: 0.54 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 42 Resp: 7252

Ion	Ratio	Lower	Upper
42	100		
41	86.5	69.2	128.6
57	35.6	18.6	34.6#

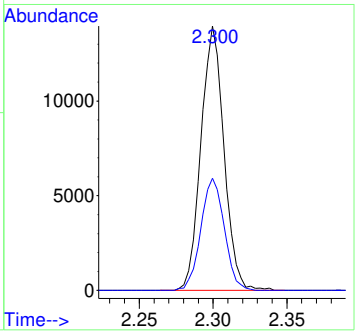


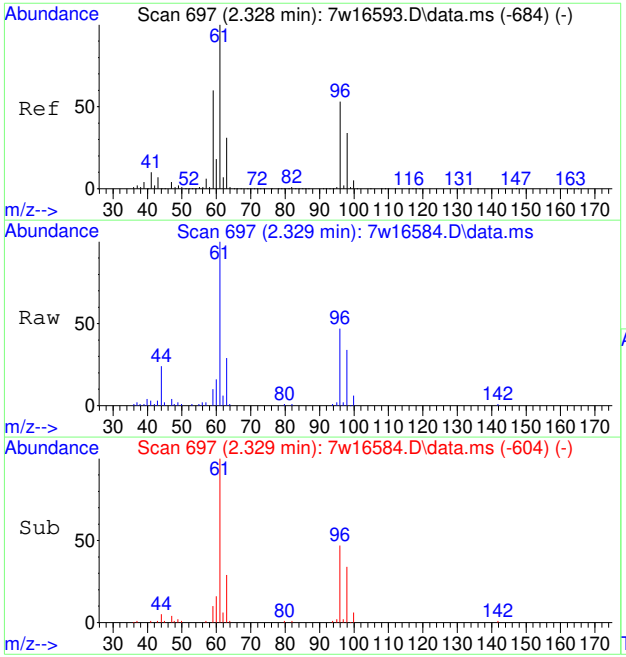


#25
IODOMETHANE
Concen: 0.52 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:142 Resp: 15067

Ion	Ratio	Lower	Upper
142	100		
127	43.2	32.1	59.7

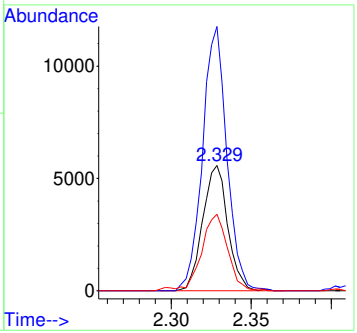


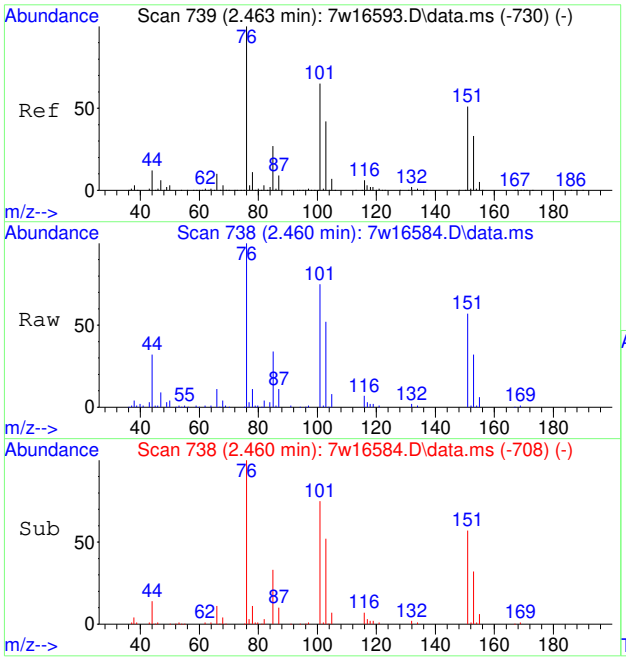


#26
1,1-DICHLOROETHYLENE
Concen: 0.52 PPBV
RT: 2.329 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6087

Ion	Ratio	Lower	Upper
96	100		
61	204.2	98.3	182.5#
63	64.2	33.2	61.7#

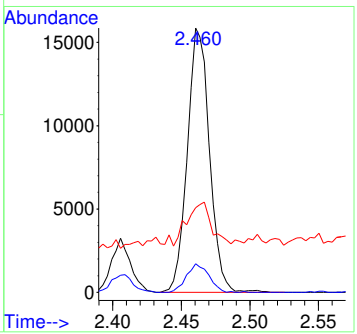


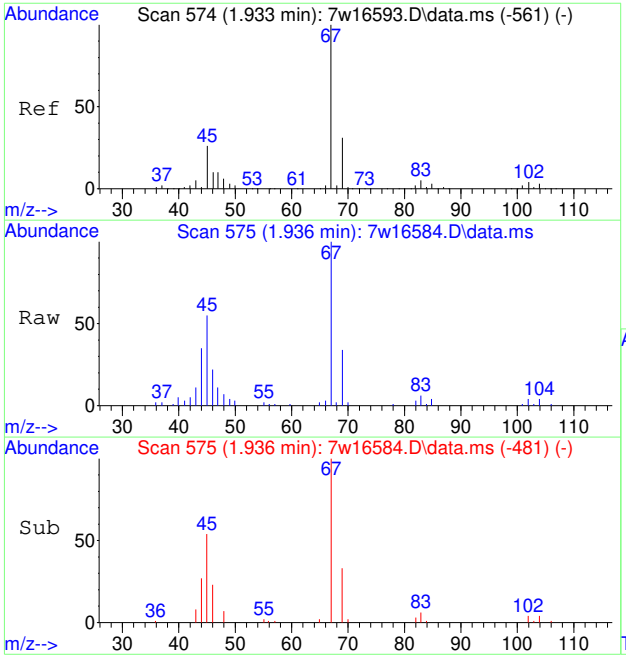


#27
CARBON DISULFIDE
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 17823

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	21.1	13.0	24.1

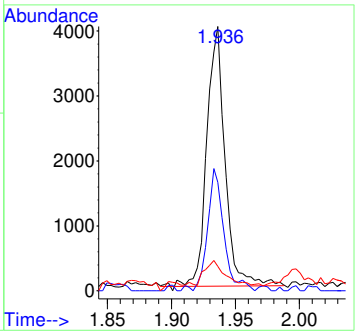


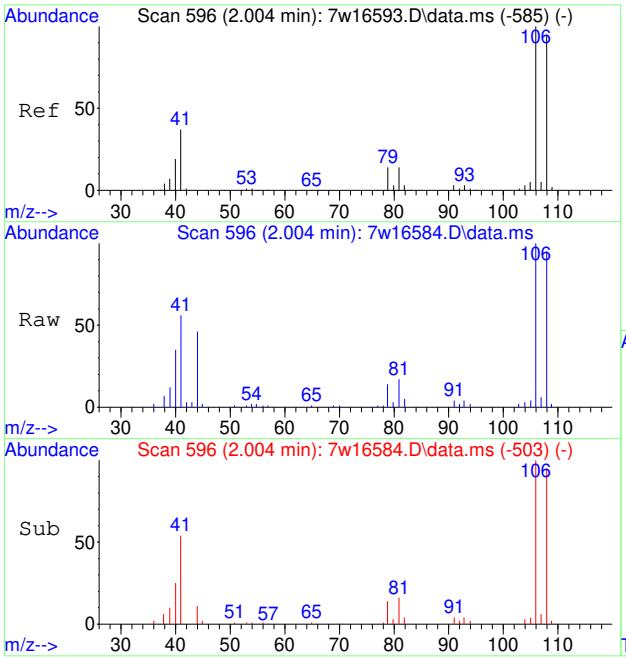


#28
ETHANOL
Concen: 0.60 PPBV
RT: 1.936 min Scan# 575
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 3995

Ion	Ratio	Lower	Upper
45	100		
46	43.2	29.7	55.1
42	19.9	7.3	13.5#

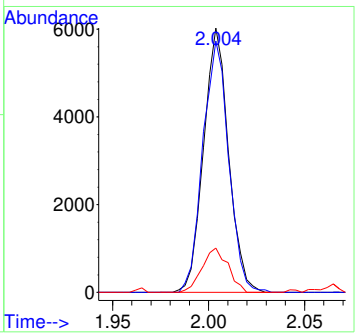


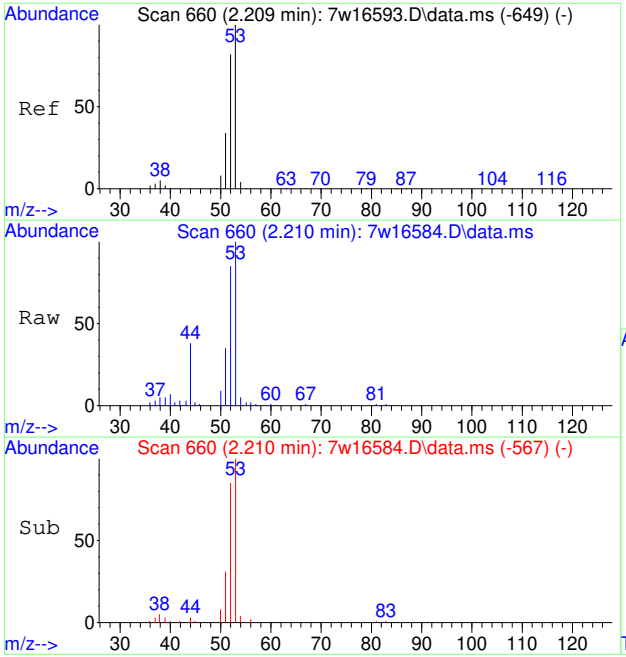


#29
BROMOETHENE
Concen: 0.48 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:106 Resp: 5459

Ion	Ratio	Lower	Upper
106	100		
108	98.1	68.3	126.8
81	17.4	14.7	27.3

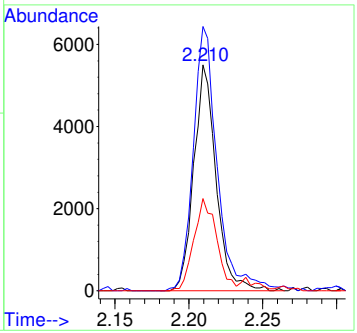


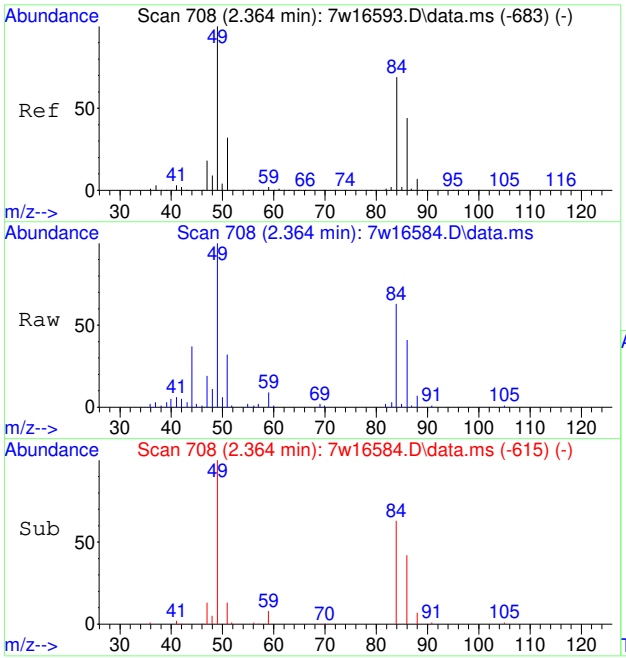


#30
ACRYLONITRILE
Concen: 0.58 PPBV
RT: 2.210 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 5767

Ion	Ratio	Lower	Upper
52	100		
53	126.8	86.3	160.3
51	41.9	33.6	62.4

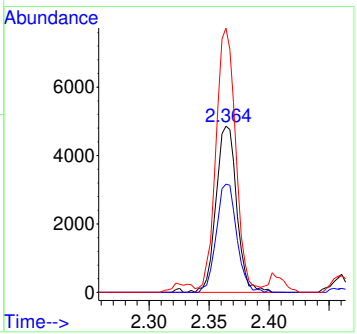


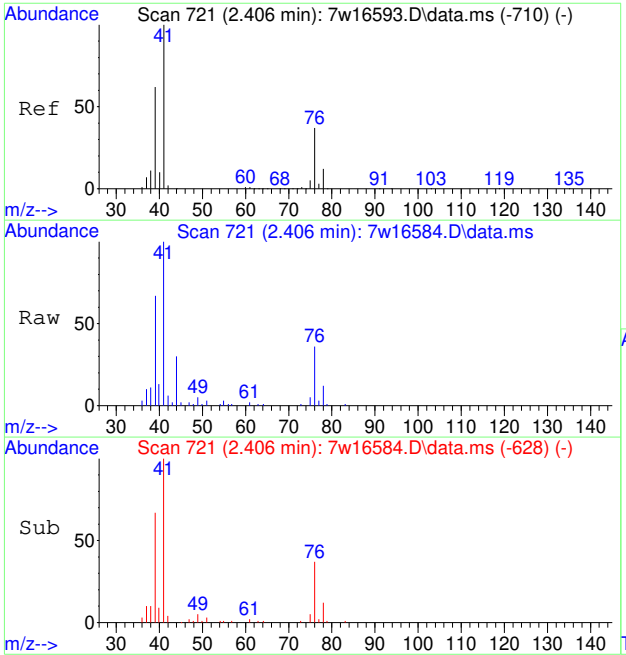


#31
METHYLENE CHLORIDE
Concen: 0.53 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 5842

Ion	Ratio	Lower	Upper
84	100		
86	64.4	44.9	83.5
49	156.9	79.7	148.1#

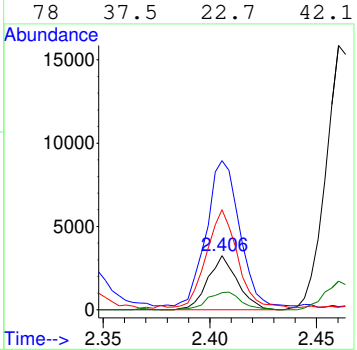


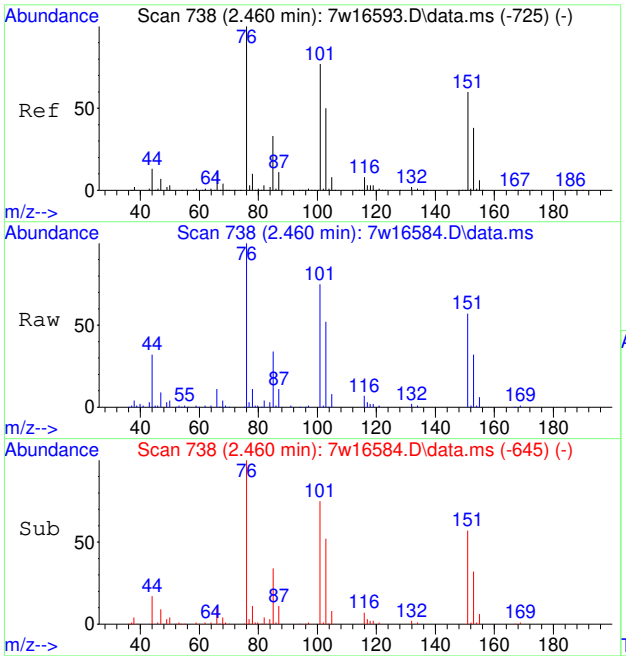


#32
3-CHLOROPROPENE
Concen: 0.50 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 3137

Ion	Ratio	Lower	Upper
76	100		
41	305.0	160.9	298.9#
39	194.1	150.7	279.9
78	37.5	22.7	42.1

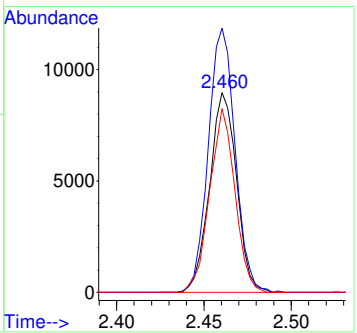


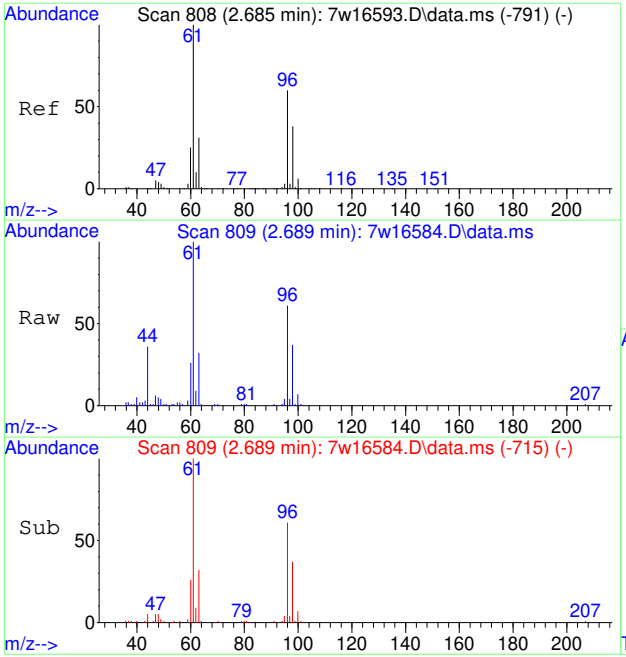


#33
FREON 113
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:151 Resp: 9645

Ion	Ratio	Lower	Upper
151	100		
101	131.3	81.1	150.7
103	86.0	51.4	95.4

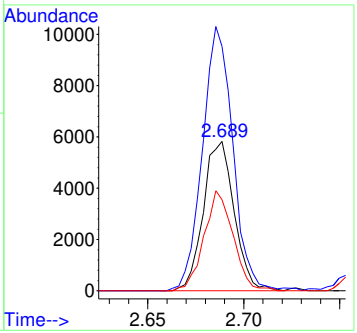


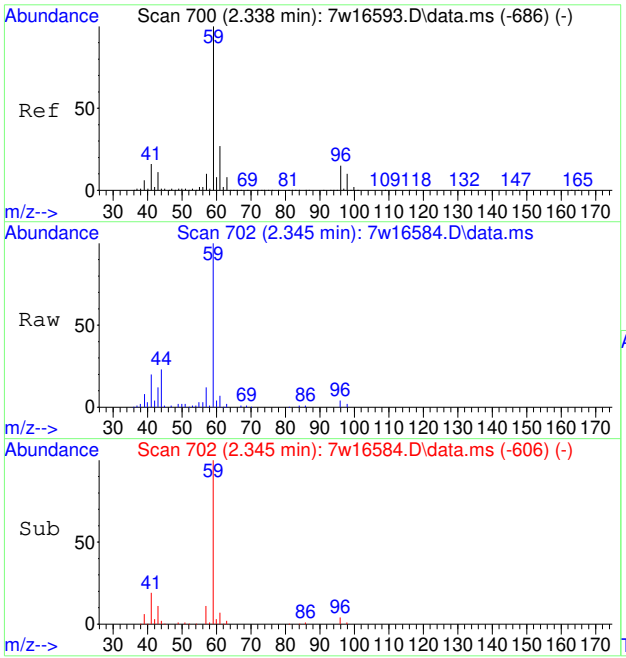


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6513

Ion	Ratio	Lower	Upper
96	100		
61	175.4	78.5	145.9#
98	63.1	46.5	86.3

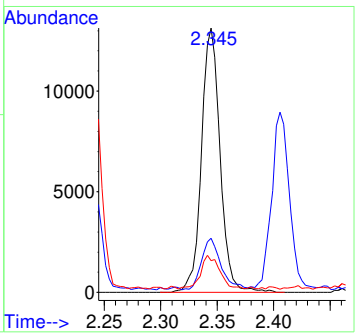


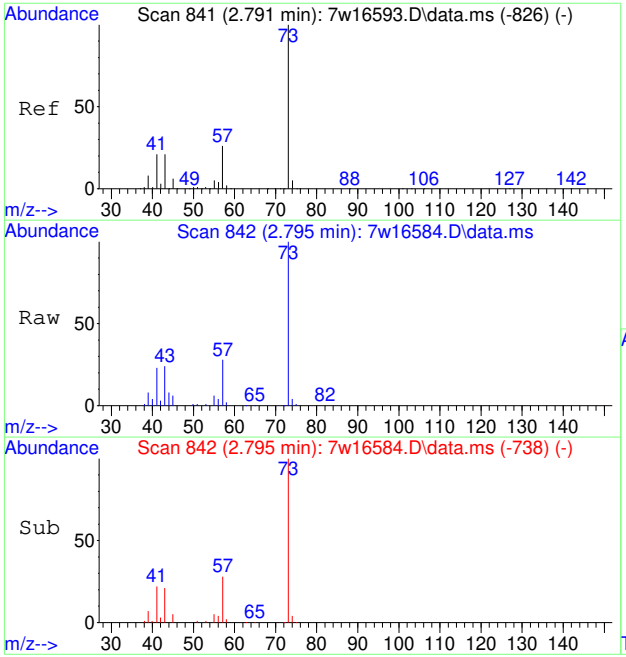


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.47 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 15020

Ion	Ratio	Lower	Upper
59	100		
41	20.4	15.3	28.5
43	12.8	12.3	22.9

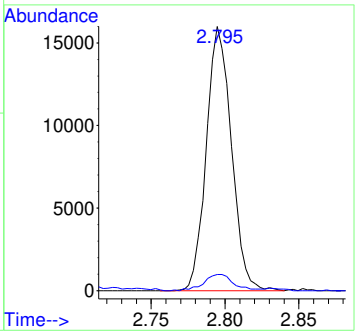


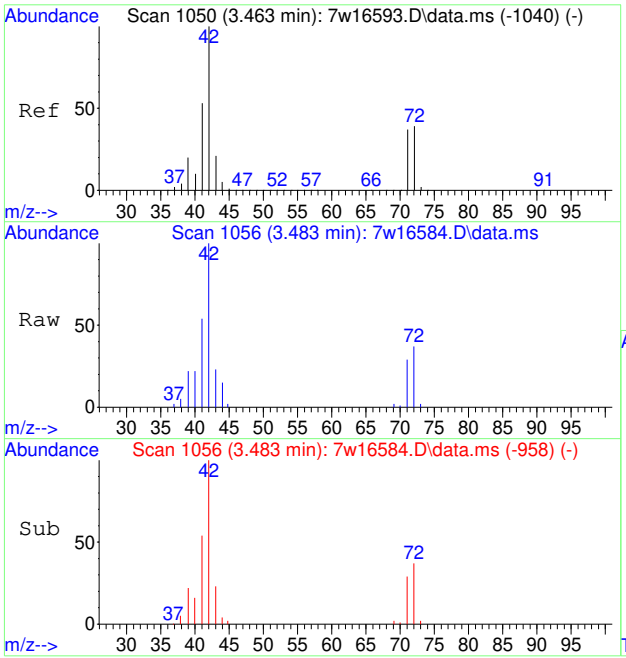


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.52 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 73 Resp: 18863

Ion	Ratio	Lower	Upper
73	100		
45	8.1	3.4	6.4#

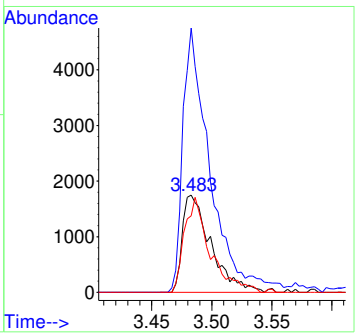


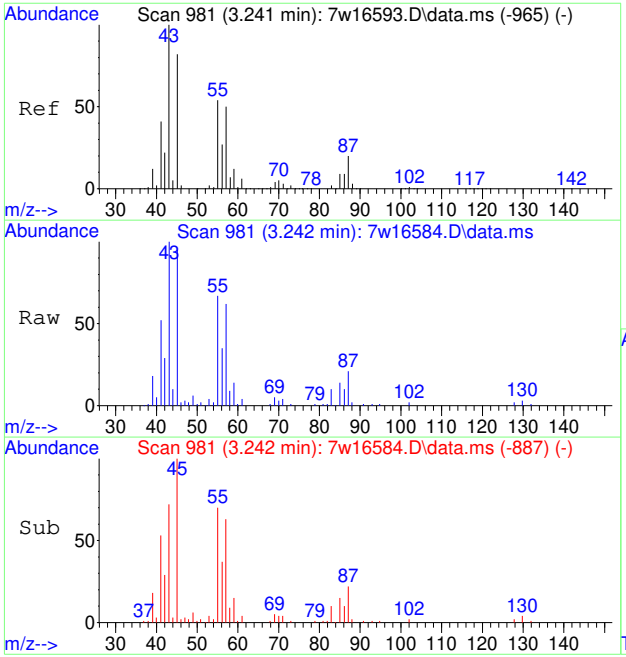


#37
TETRAHYDROFURAN
Concen: 0.48 PPBV
RT: 3.483 min Scan# 1056
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 2906

Ion	Ratio	Lower	Upper
72	100		
42	264.6	153.0	284.2
71	88.4	62.7	116.5

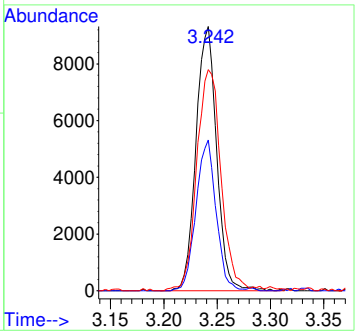


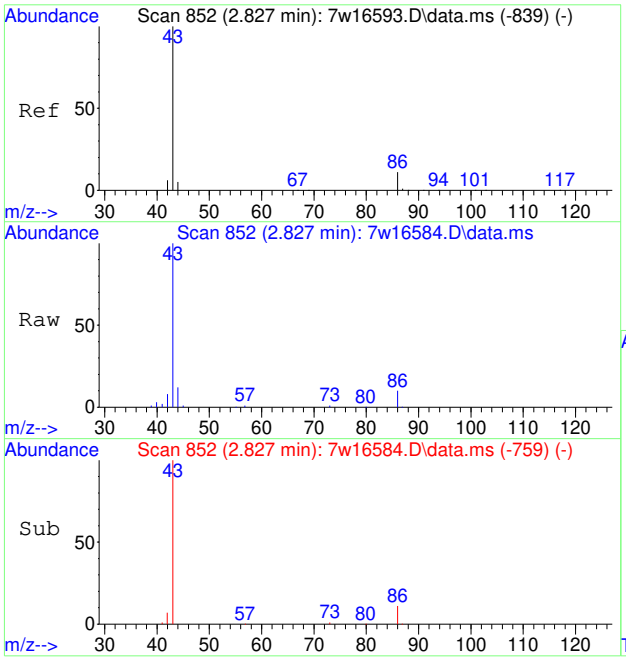


#38
HEXANE
Concen: 0.52 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 12572

Ion	Ratio	Lower	Upper
57	100		
56	55.7	37.3	69.3
41	98.4	86.7	161.1

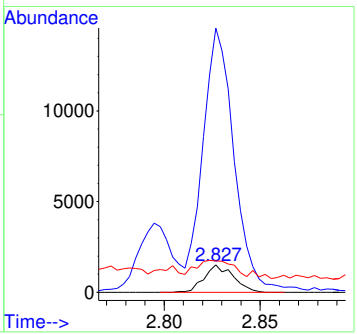


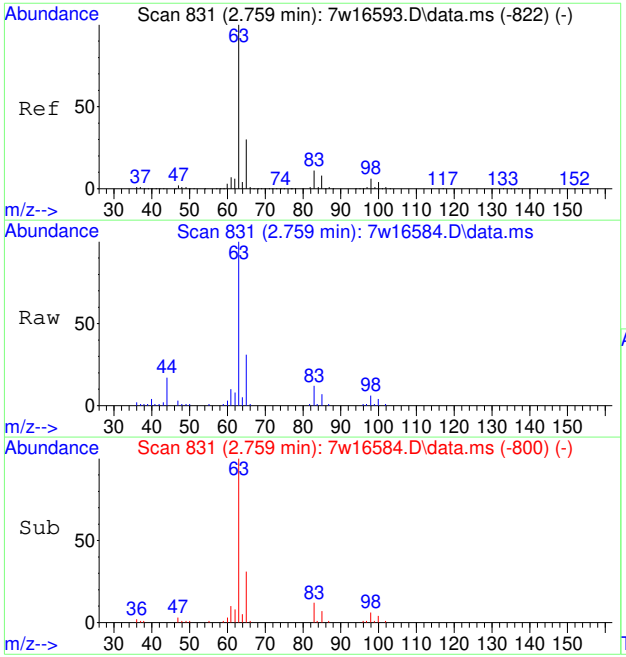


#39
VINYL ACETATE
Concen: 0.45 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 86 Resp: 1605

Ion	Ratio	Lower	Upper
86	100		
43	1019.3	667.9	1240.3
44	95.6	32.7	60.7#

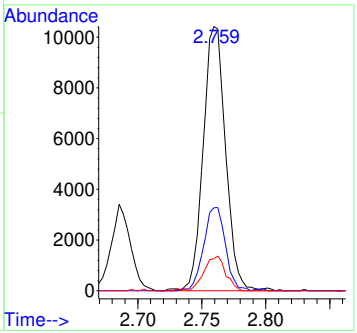


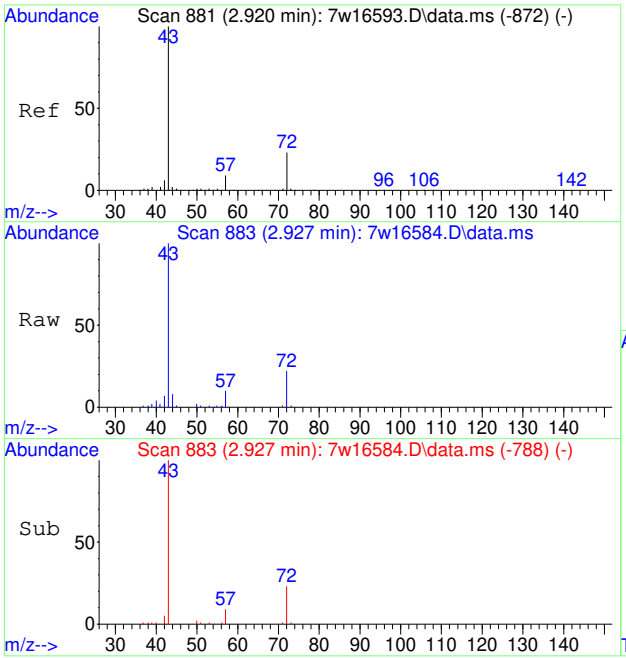


#40
1,1-DICHLOROETHANE
Concen: 0.50 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 12723

Ion	Ratio	Lower	Upper
63	100		
65	30.9	21.8	40.6
83	12.8	10.6	19.6

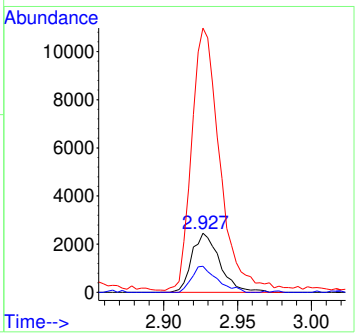


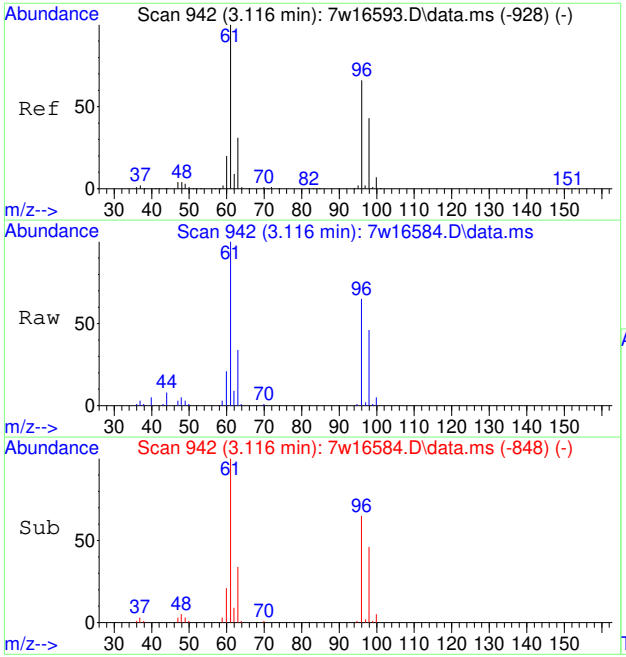


#41
METHYL ETHYL KETONE
Concen: 0.49 PPBV
RT: 2.927 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 3223

Ion	Ratio	Lower	Upper
72	100		
57	40.2	20.3	37.7#
43	453.6	282.8	525.2

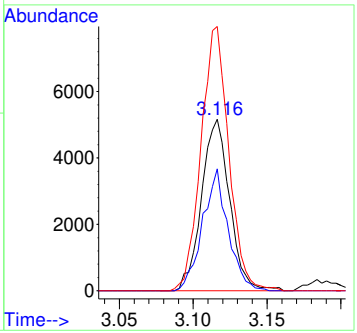


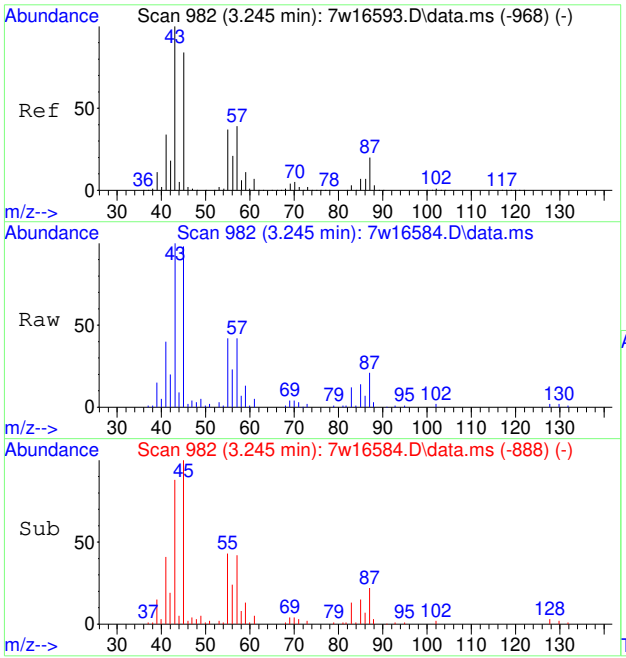


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6837

Ion	Ratio	Lower	Upper
96	100		
98	64.4	46.8	86.8
61	152.1	78.3	145.5#

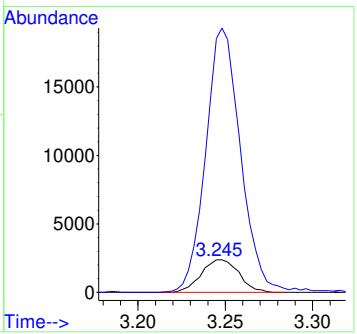


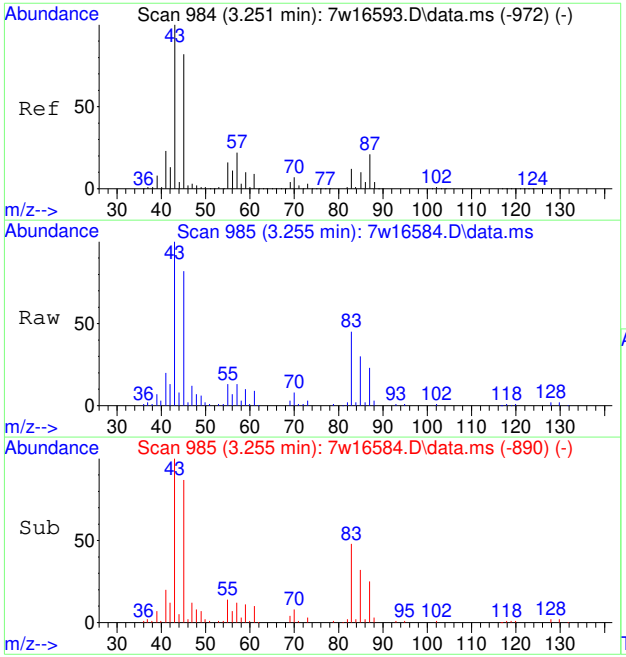


#43
DIISOPROPYL ETHER
Concen: 0.51 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 3577

Ion	Ratio	Lower	Upper
59	100		
45	758.7	532.1	988.1

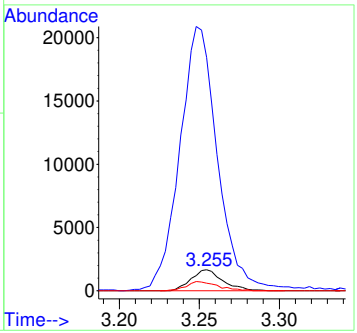


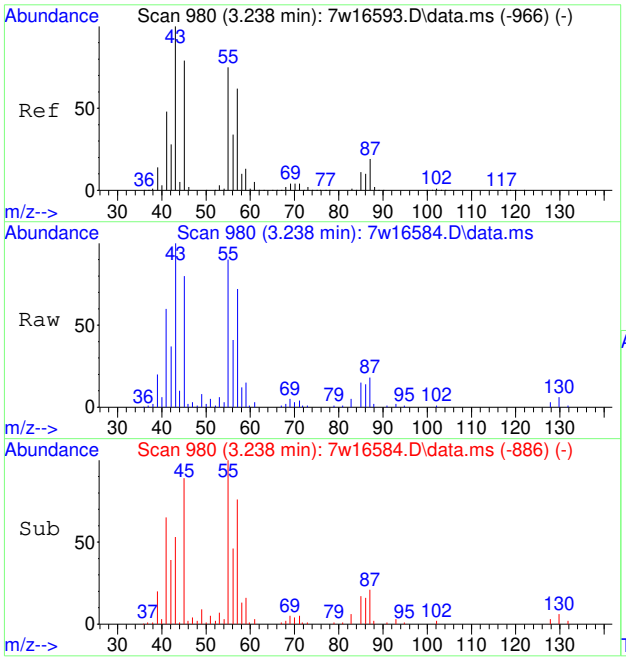


#44
ETHYL ACETATE
Concen: 0.47 PPBV
RT: 3.255 min Scan# 985
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 61 Resp: 2292

Ion	Ratio	Lower	Upper
61	100		
43	1515.1	1127.5	2093.9
88	43.9	36.2	67.2

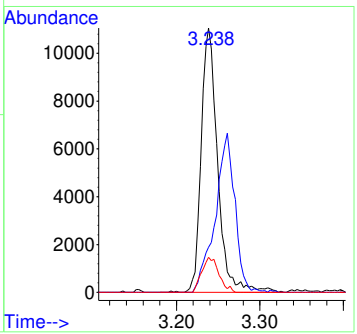


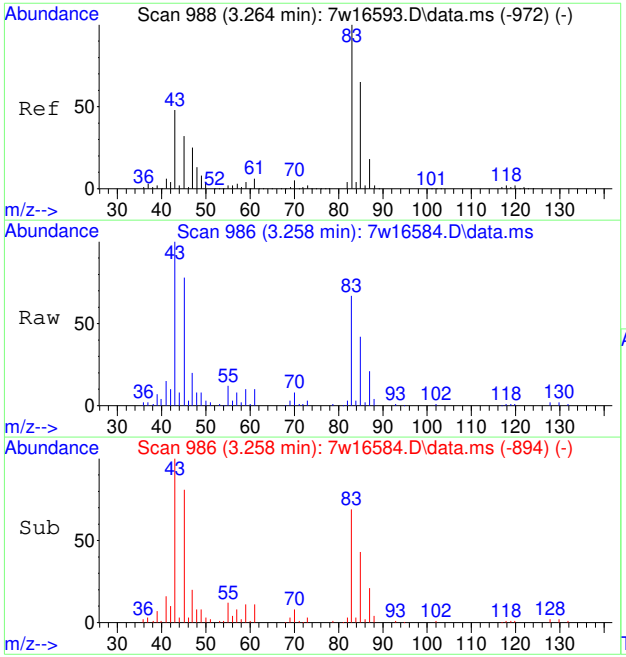


#45
METHYL ACRYLATE
Concen: 0.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 15089

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

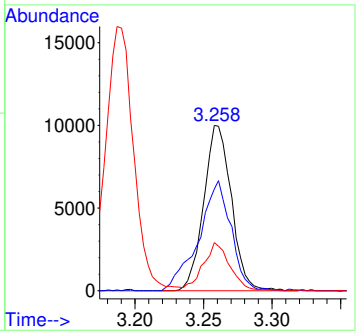


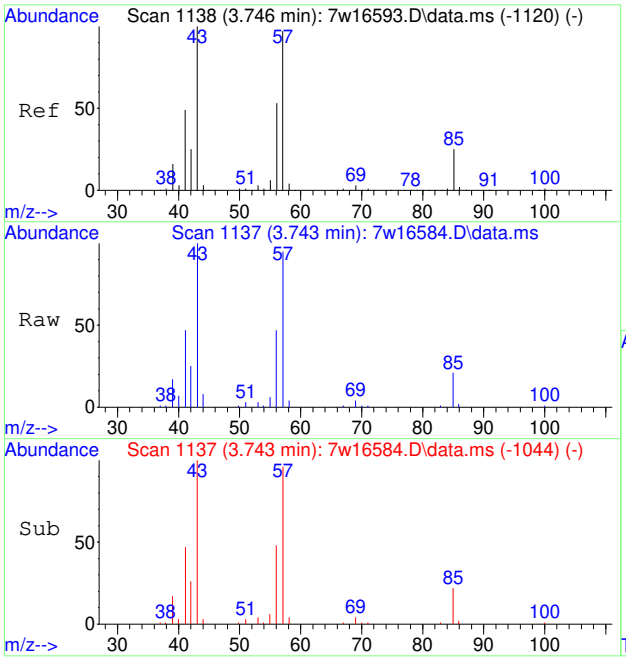


#46
CHLOROFORM
Concen: 0.53 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14039

Ion	Ratio	Lower	Upper
83	100		
85	78.2	54.6	101.4
47	28.4	17.9	33.3

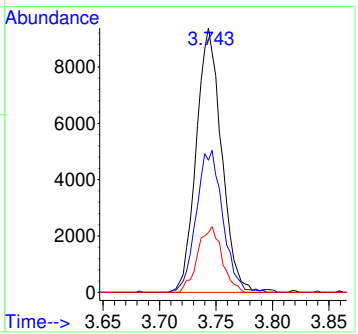


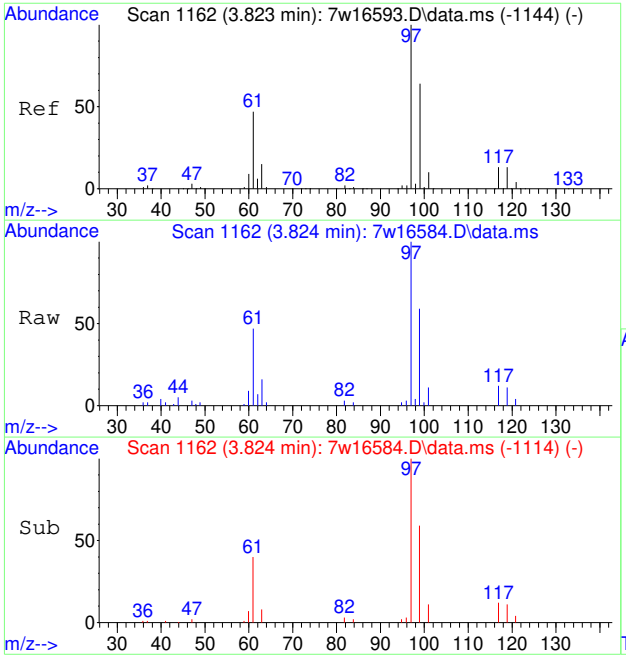


#47
2,4-DIMETHYLPENTANE
Concen: 0.53 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 14638

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	23.7	24.1	44.7#

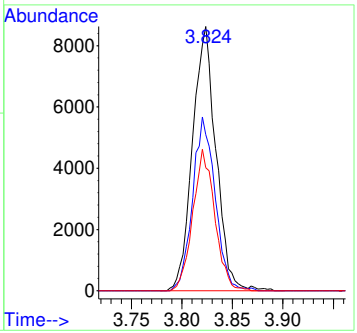


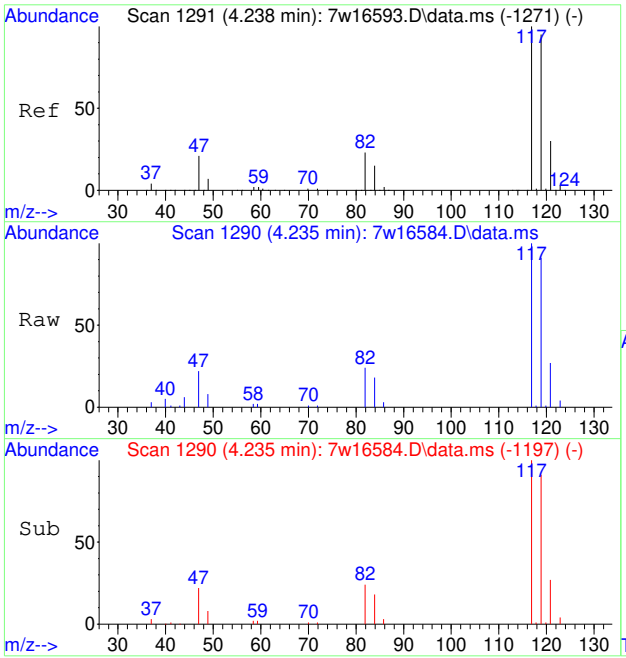


#48
1,1,1-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 97 Resp: 13952

Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.9	83.5
61	50.0	28.6	53.0

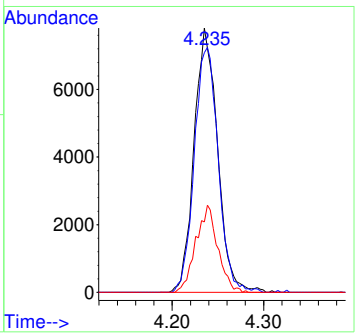


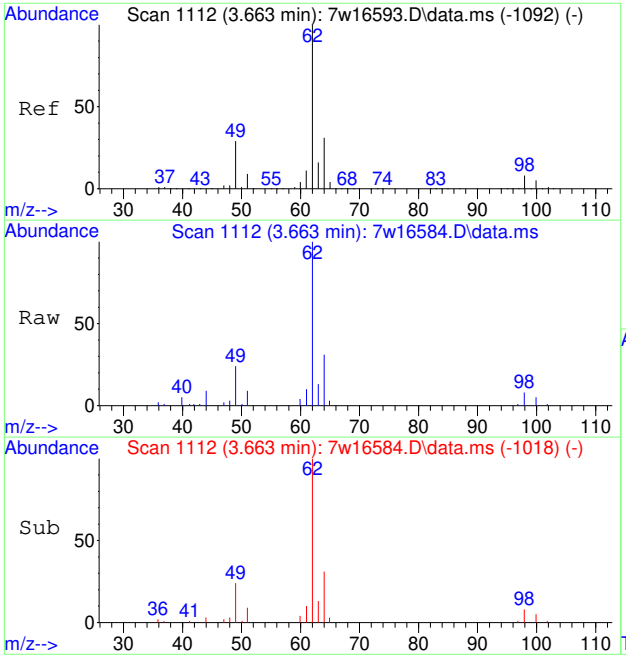


#49
CARBON TETRACHLORIDE
Concen: 0.47 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 13931

Ion	Ratio	Lower	Upper
117	100		
119	94.6	68.8	127.8
121	30.7	22.2	41.2

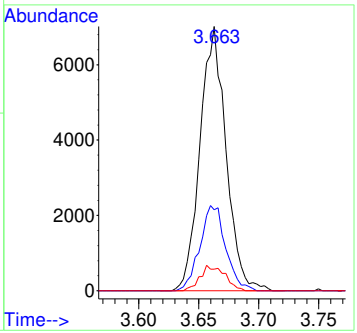


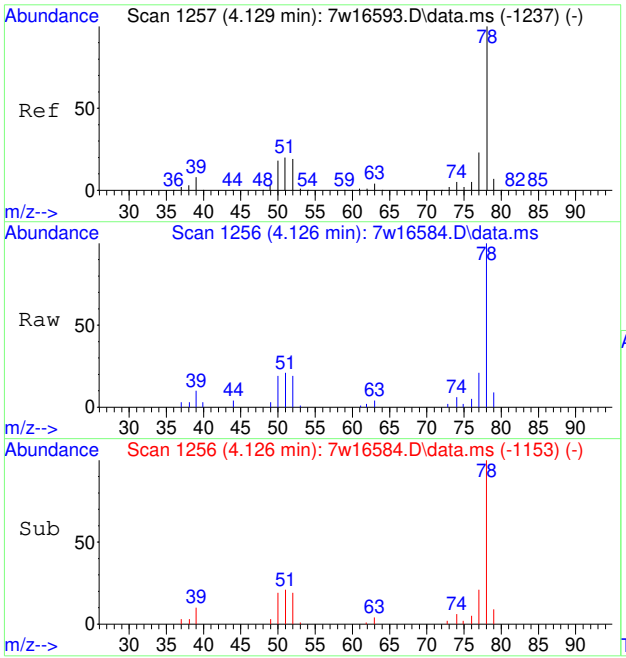


#50
1,2-DICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 10566

Ion	Ratio	Lower	Upper
62	100		
64	32.0	22.5	41.7
98	9.0	6.8	12.6

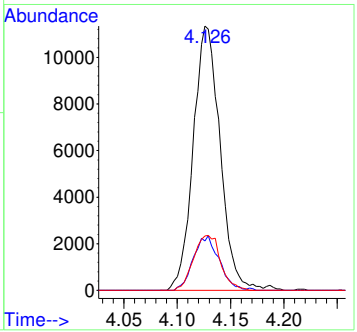


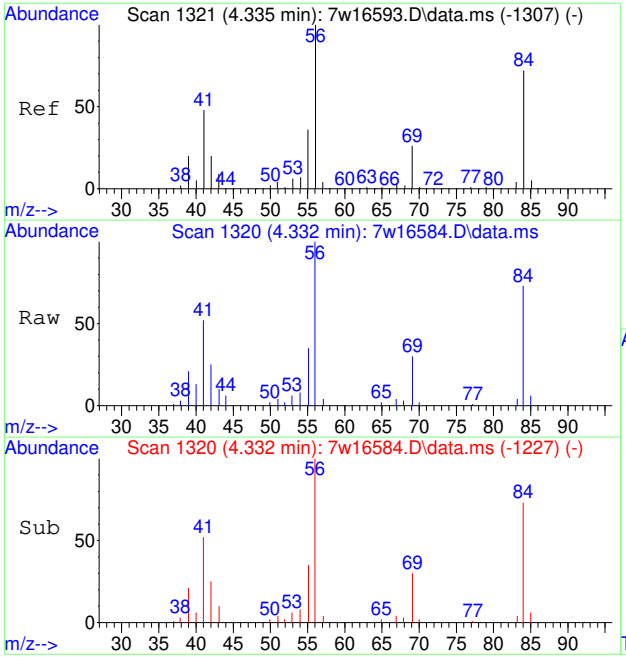


#51
BENZENE
Concen: 0.51 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 78 Resp: 19953

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	44.6
51	20.9	0.0	47.3

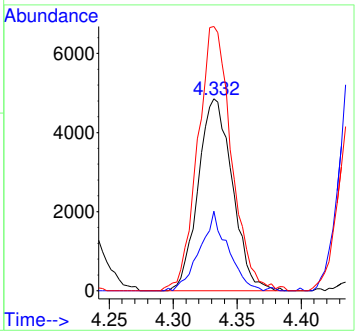


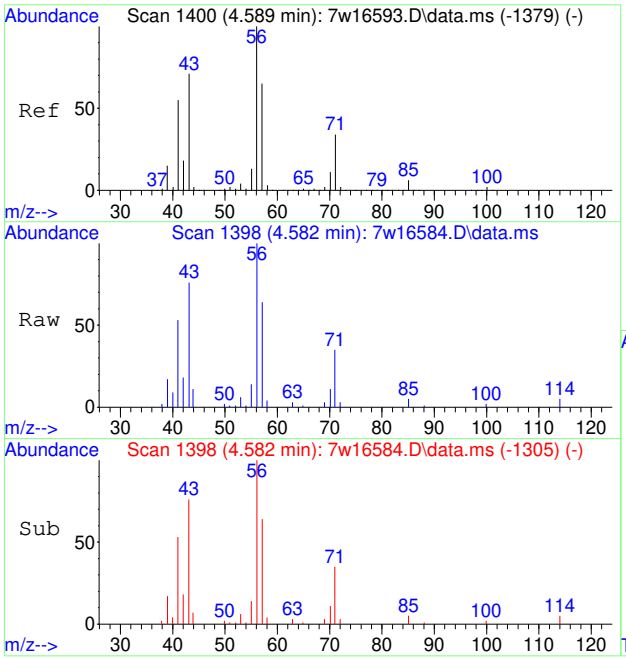


#53
CYCLOHEXANE
Concen: 0.51 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 9049

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	136.0	70.2	130.4#

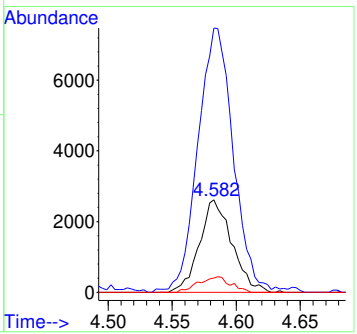


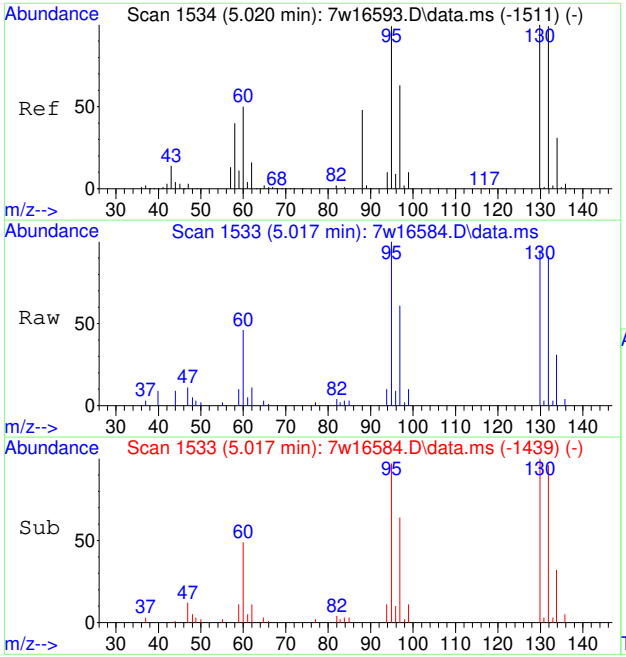


#54
2,3-DIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 71 Resp: 4648

Ion	Ratio	Lower	Upper
71	100		
56	311.5	171.4	318.4
85	16.7	12.6	23.4

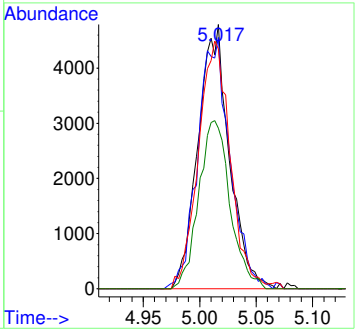


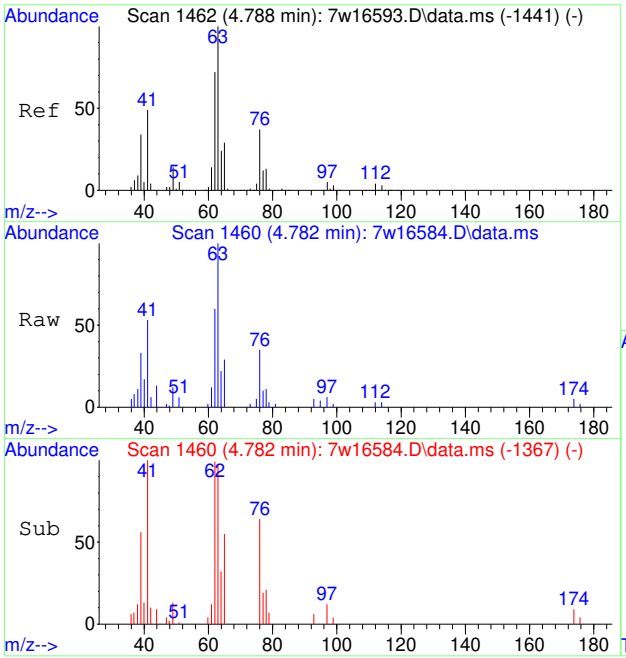


#55
TRICHLOROETHENE
Concen: 0.49 PPBV
RT: 5.017 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 95 Resp: 9226

Ion	Ratio	Lower	Upper
95	100		
130	97.8	85.9	159.5
132	95.6	79.4	147.4
97	63.7	45.0	83.6

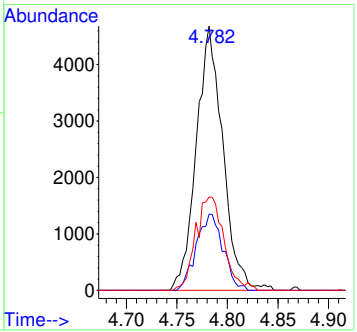


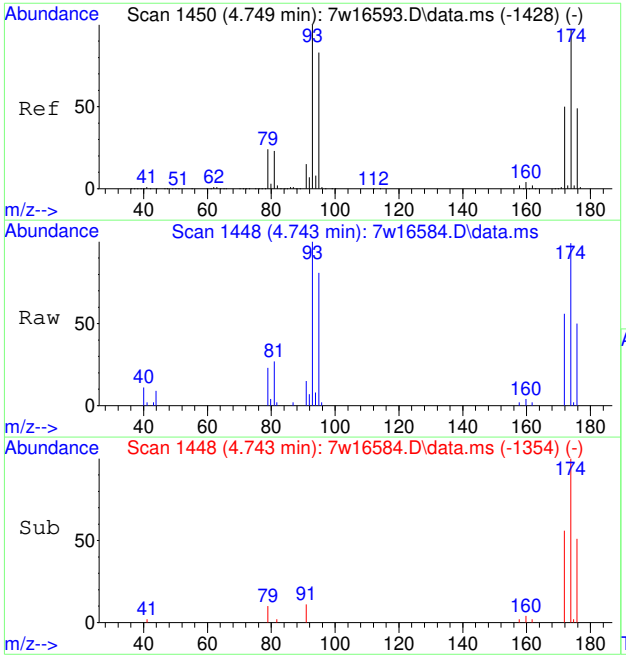


#56
1,2-DICHLOROPROPANE
Concen: 0.51 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 8549

Ion	Ratio	Lower	Upper
63	100		
65	29.1	22.6	42.0
76	37.7	31.8	59.0

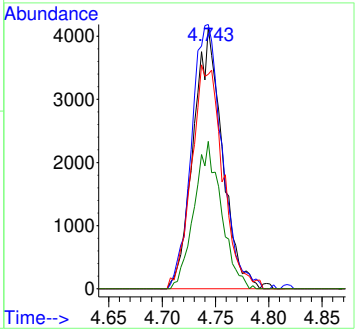


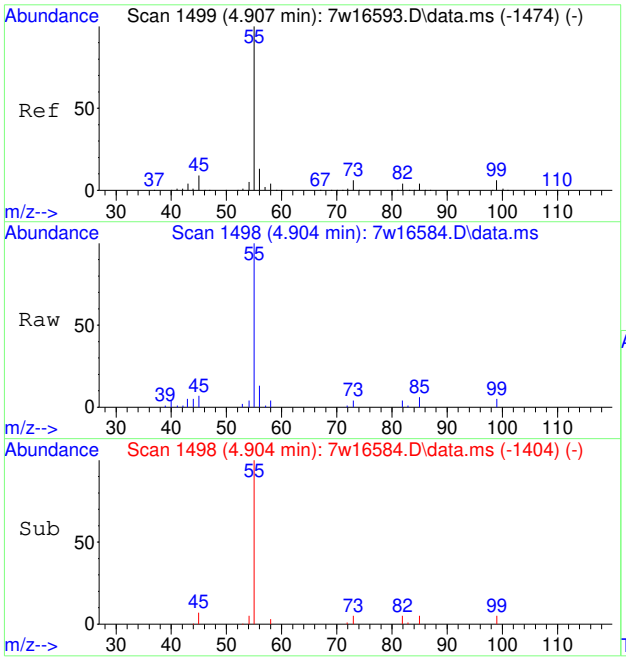


#57
DIBROMOMETHANE
Concen: 0.51 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:174 Resp: 7819

Ion	Ratio	Lower	Upper
174	100		
93	106.5	67.3	125.1
95	91.9	56.8	105.6
172	52.9	36.3	67.5

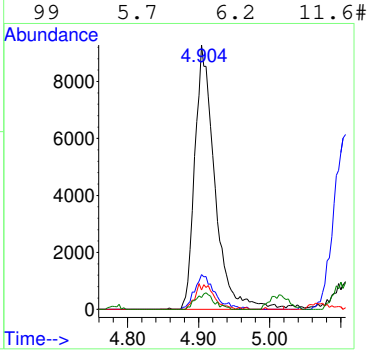


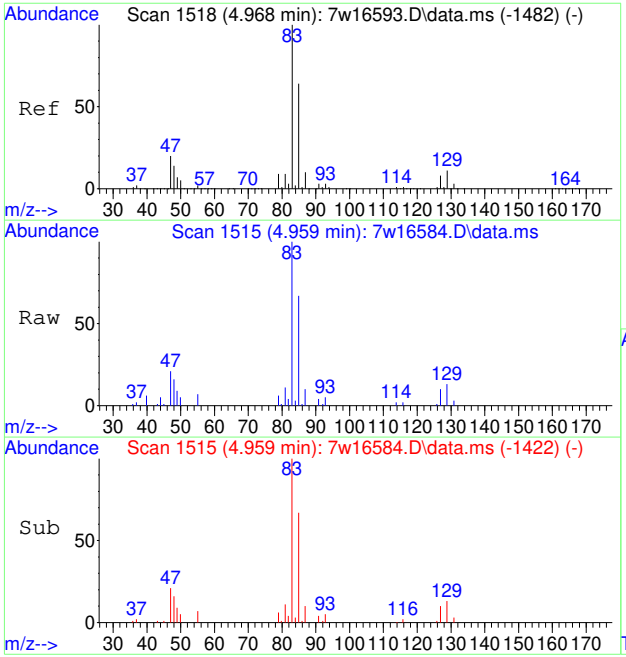


#58
ETHYL ACRYLATE
Concen: 0.48 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 18149

Ion	Ratio	Lower	Upper
55	100		
56	13.3	7.9	14.7
45	9.0	6.6	12.2
99	5.7	6.2	11.6#

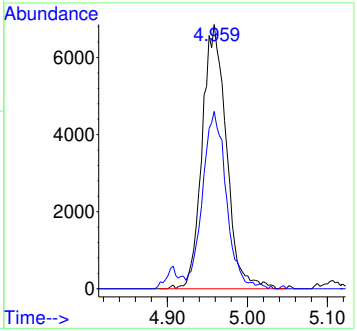


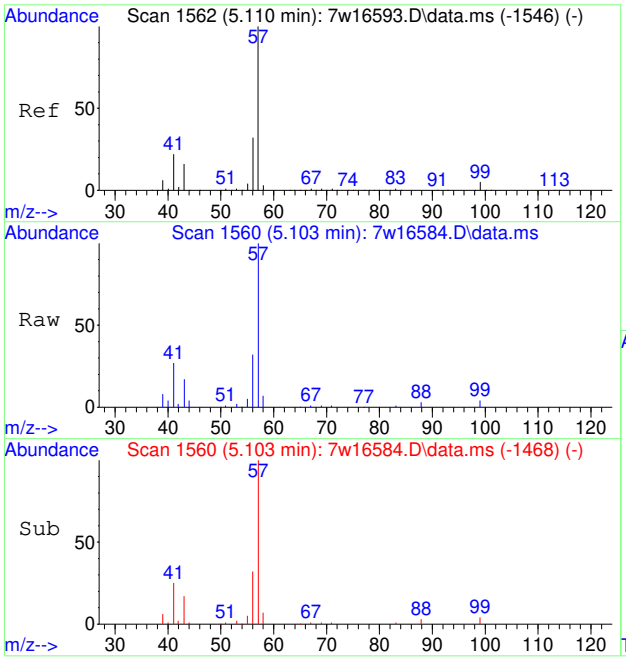


#59
BROMODICHLOROMETHANE
Concen: 0.46 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14412

Ion	Ratio	Lower	Upper
83	100		
85	65.8	44.9	83.5

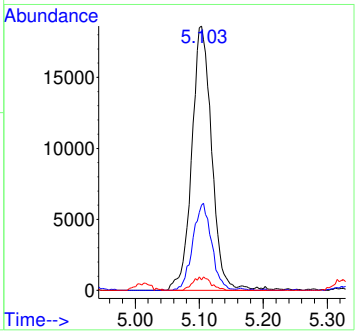


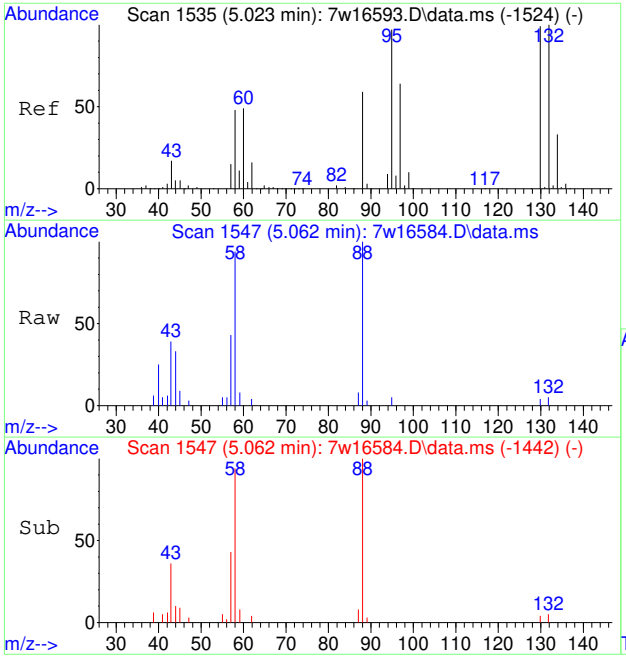


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 40435

Ion	Ratio	Lower	Upper
57	100		
56	31.0	24.4	45.2
99	4.6	5.2	9.6#

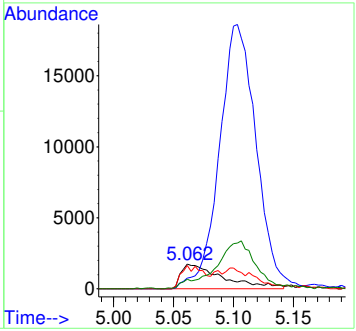


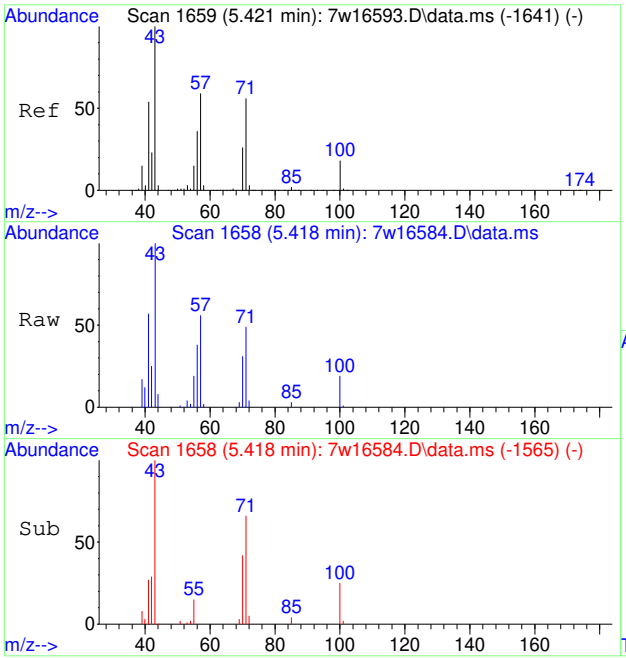


#61
1,4-DIOXANE
Concen: 0.45 PPBV
RT: 5.062 min Scan# 1547
Delta R.T. 0.039 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 88 Resp: 4245

Ion	Ratio	Lower	Upper
88	100		
57	0.0	13.1	24.3#
58	47.1	39.1	72.5
43	0.0	18.3	33.9#

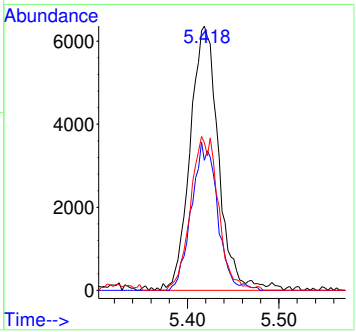


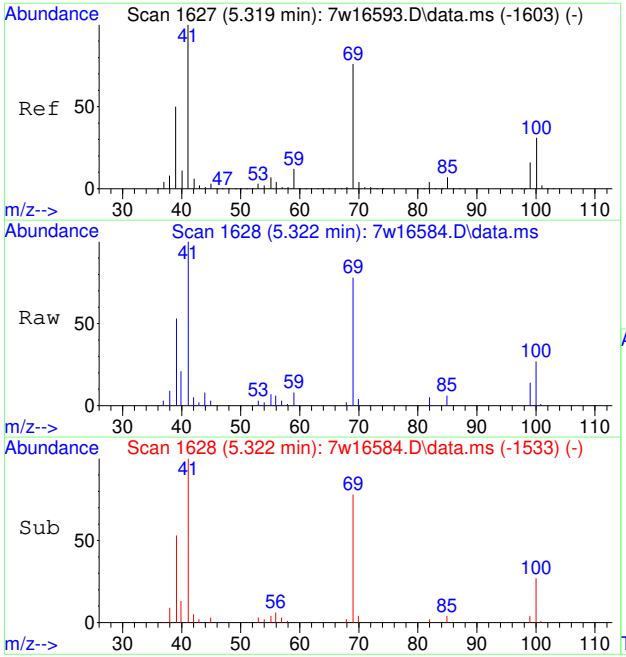


#62
HEPTANE
Concen: 0.52 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 13738

Ion	Ratio	Lower	Upper
43	100		
71	51.3	45.0	83.6
57	57.2	37.2	69.0

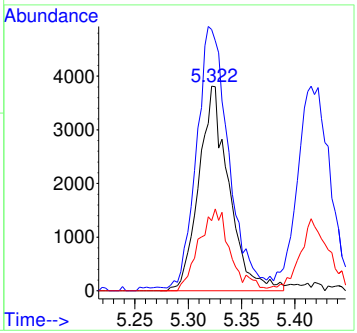


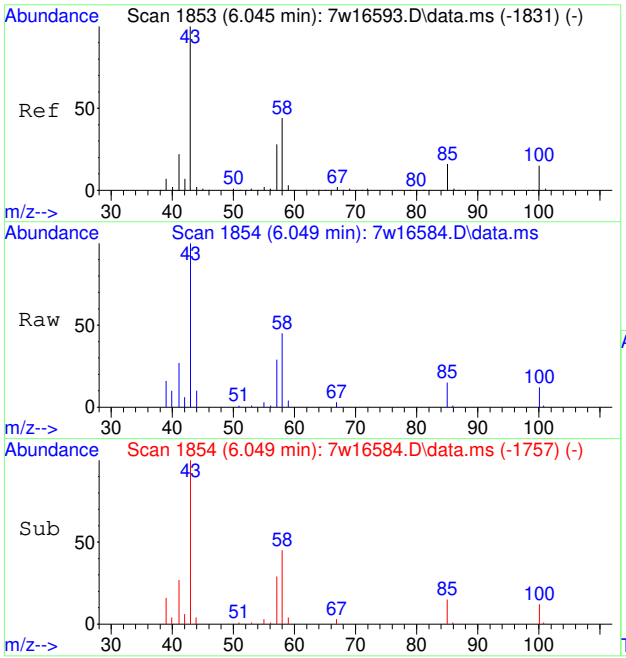


#63
METHYL METHACRYLATE
Concen: 0.49 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 7482

Ion	Ratio	Lower	Upper
69	100		
41	138.4	84.3	156.5
100	41.6	30.8	57.2

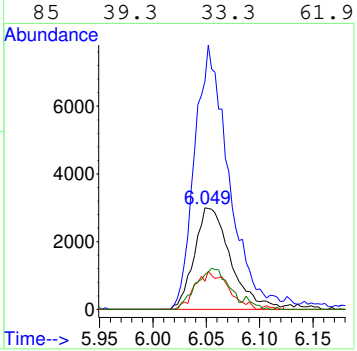


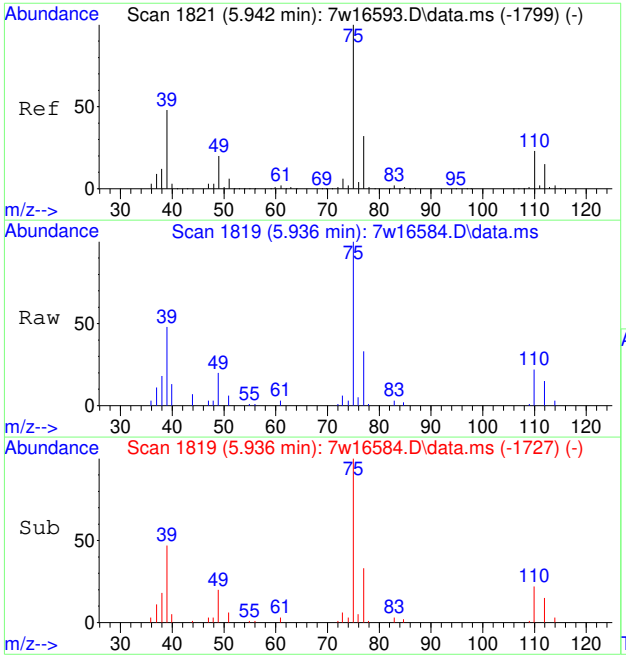


#64
METHYL ISOBUTYL KETONE
Concen: 0.46 PPBV
RT: 6.049 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 7119

Ion	Ratio	Lower	Upper
58	100		
43	253.5	193.8	360.0
100	34.7	32.8	60.8
85	39.3	33.3	61.9

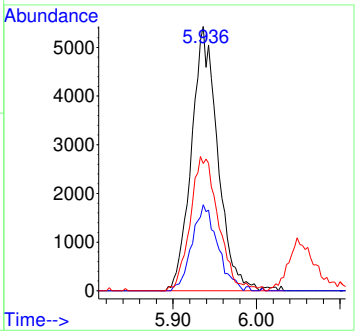


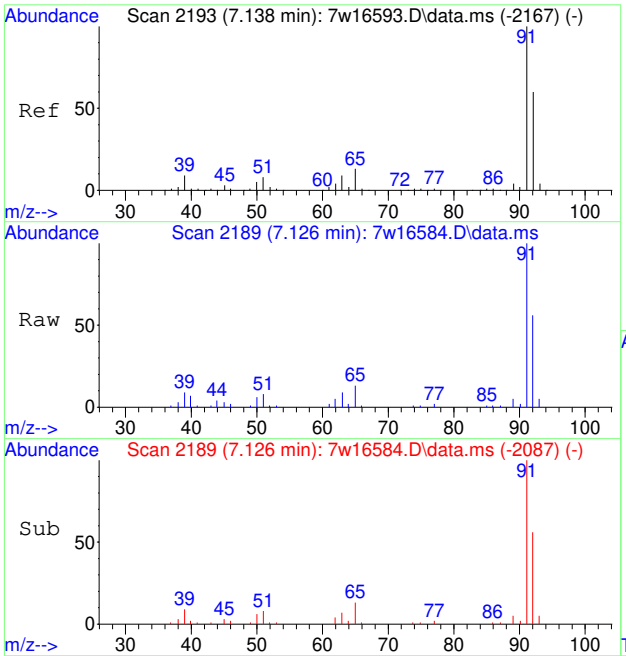


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.45 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 11946

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.0	40.8
39	54.5	38.5	71.5

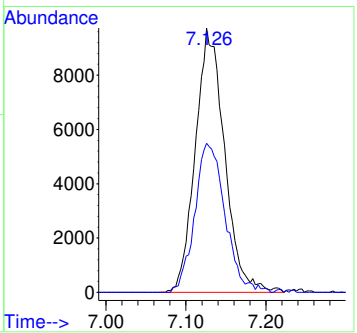


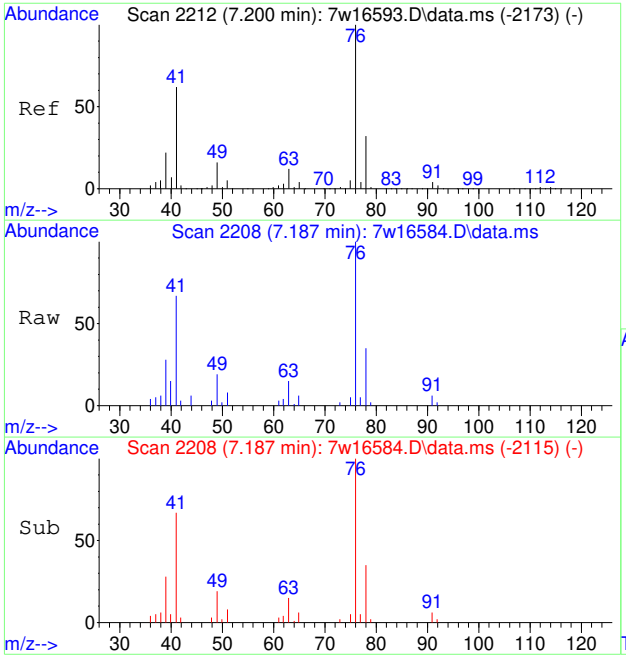


#66
TOLUENE
Concen: 0.51 PPBV
RT: 7.126 min Scan# 2189
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 24682

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

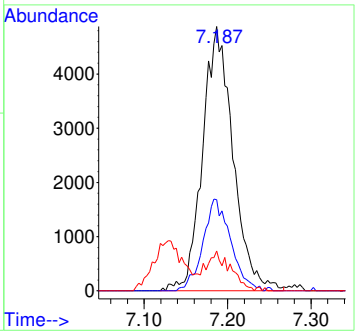


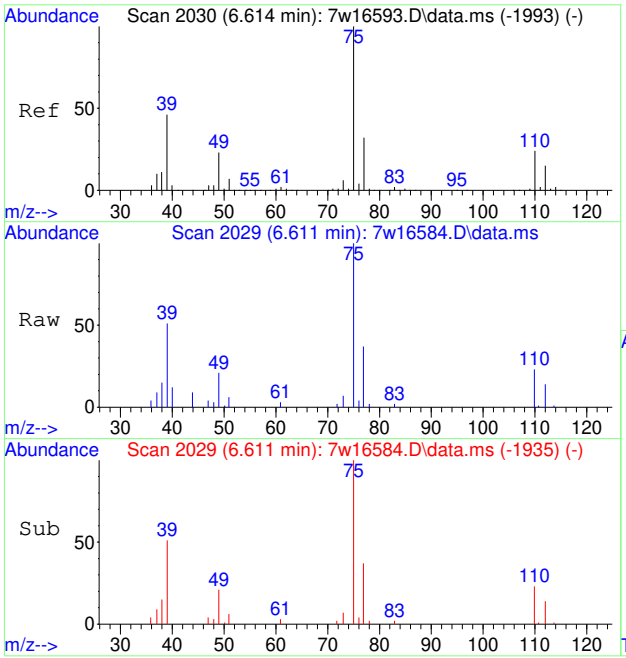


#67
1,3-DICHLOROPROPANE
Concen: 0.50 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 12380

Ion	Ratio	Lower	Upper
76	100		
78	31.6	22.1	41.1
63	13.2	8.0	14.8

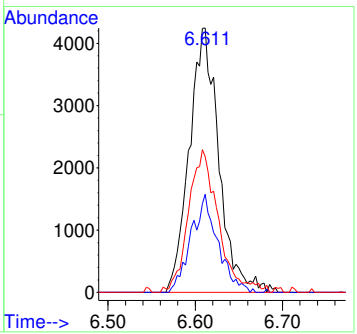


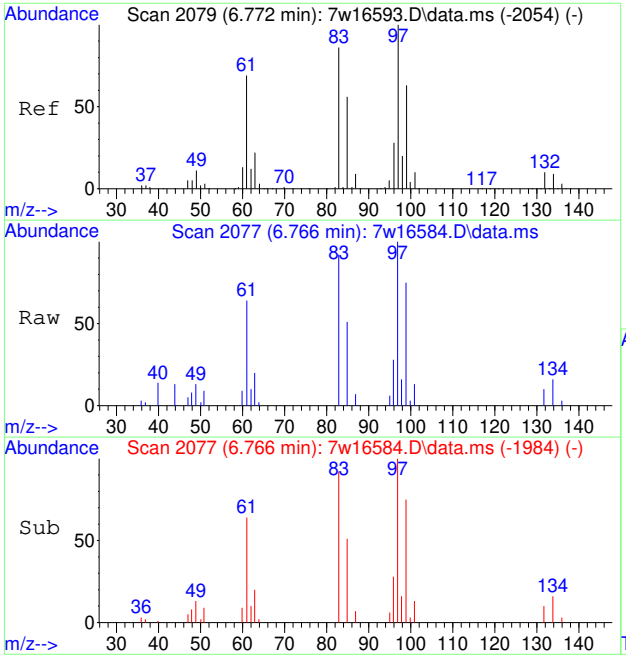


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.41 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 10011

Ion	Ratio	Lower	Upper
75	100		
77	33.6	22.5	41.7
39	55.1	37.2	69.0

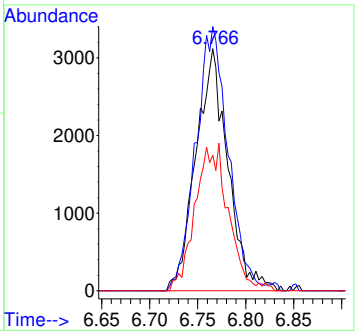


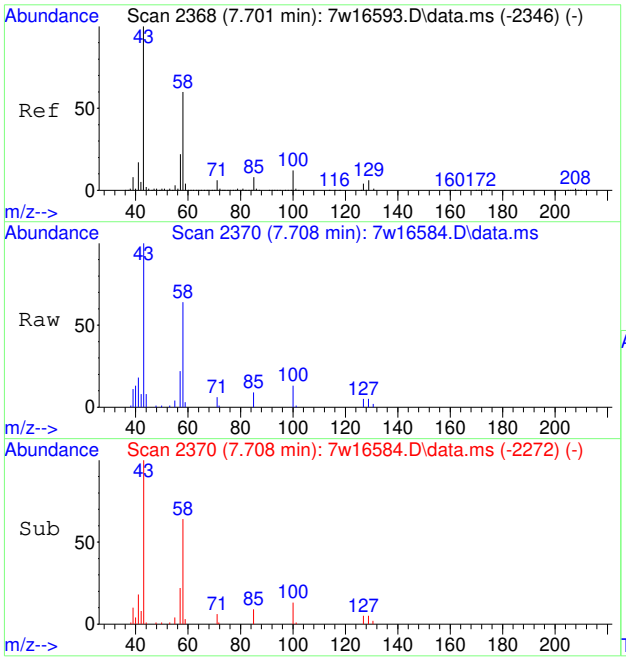


#69
1,1,2-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 7248

Ion	Ratio	Lower	Upper
83	100		
97	111.0	86.7	160.9
85	62.6	45.5	84.5

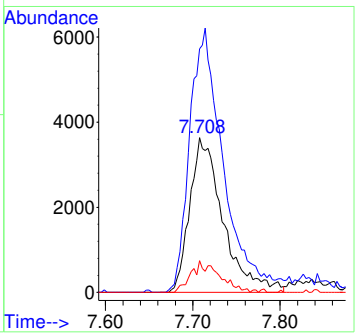


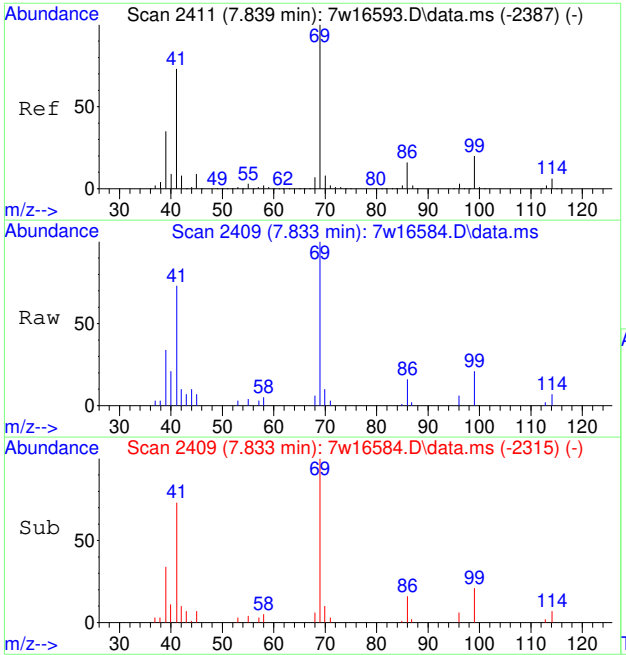


#70
2-HEXANONE
Concen: 0.47 PPBV
RT: 7.708 min Scan# 2370
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 9642

Ion	Ratio	Lower	Upper
58	100		
43	173.7	141.7	263.3
100	17.2	18.9	35.1#

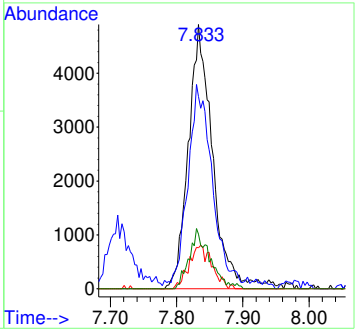


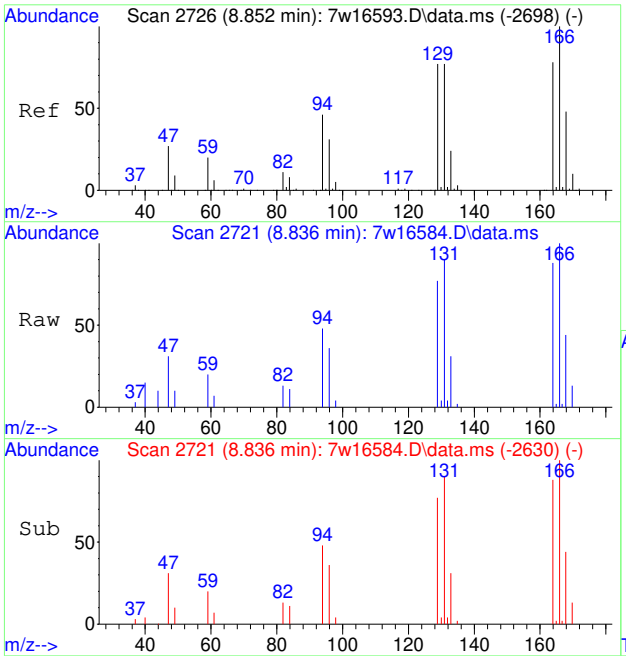


#71
ETHYL METHACRYLATE
Concen: 0.48 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 12576

Ion	Ratio	Lower	Upper
69	100		
41	81.1	49.3	91.6
86	15.5	11.6	21.6
99	19.4	13.4	24.8

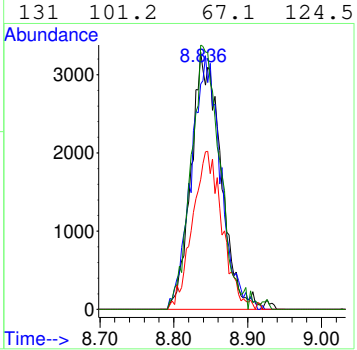


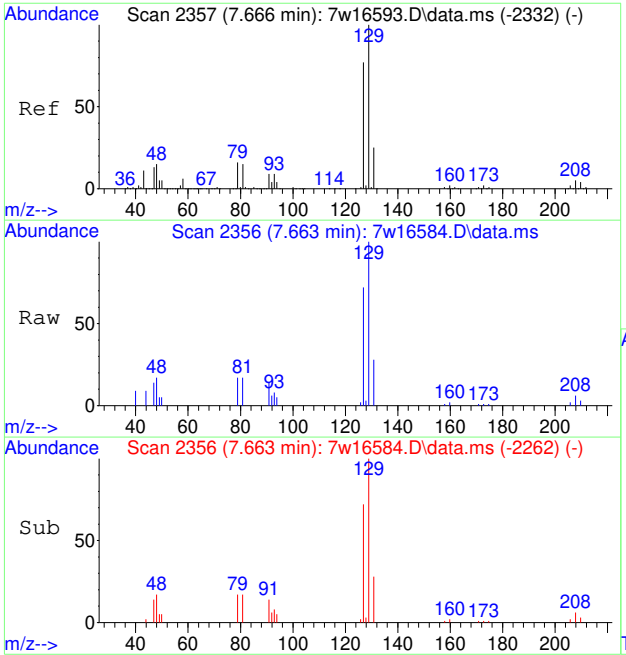


#72
TETRACHLOROETHENE
Concen: 0.52 PPBV
RT: 8.836 min Scan# 2721
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:164 Resp: 9191

Ion	Ratio	Lower	Upper
164	100		
129	97.9	69.7	129.5
168	61.9	43.4	80.6
131	101.2	67.1	124.5

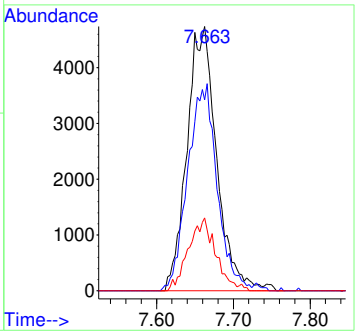


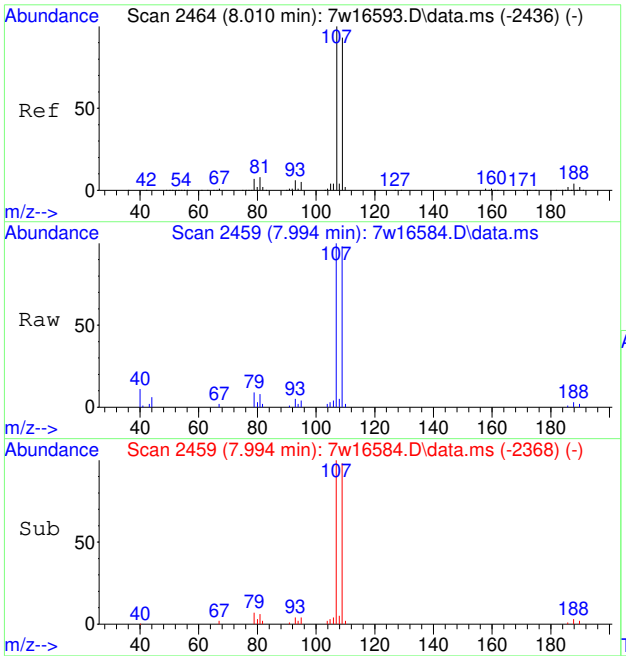


#73
DIBROMOCHLOROMETHANE
Concen: 0.43 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:129 Resp: 12752

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	25.4	16.9	31.3

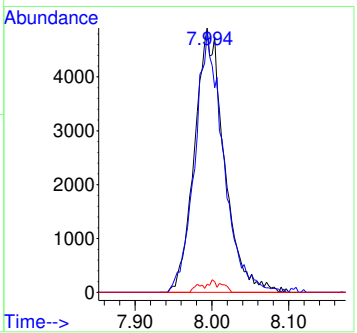


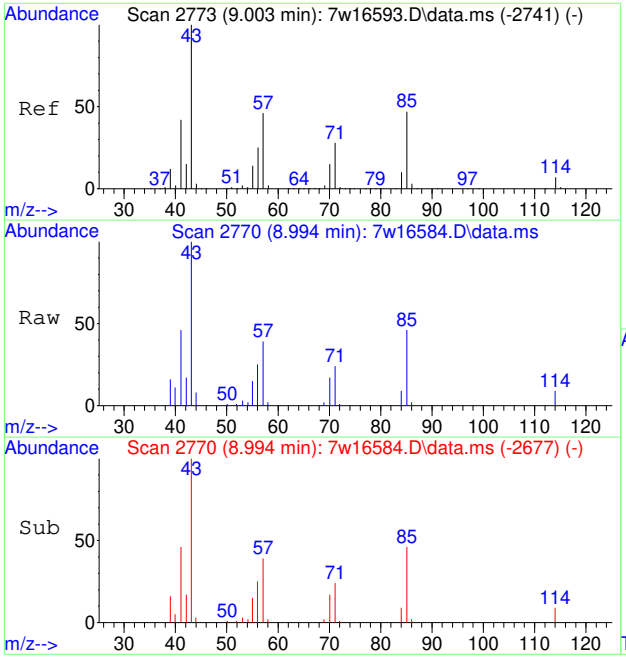


#74
1,2-DIBROMOETHANE
Concen: 0.52 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:107 Resp: 13213

Ion	Ratio	Lower	Upper
107	100		
109	95.1	65.7	122.1
188	3.1	2.4	4.4

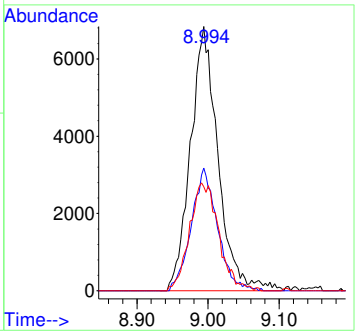


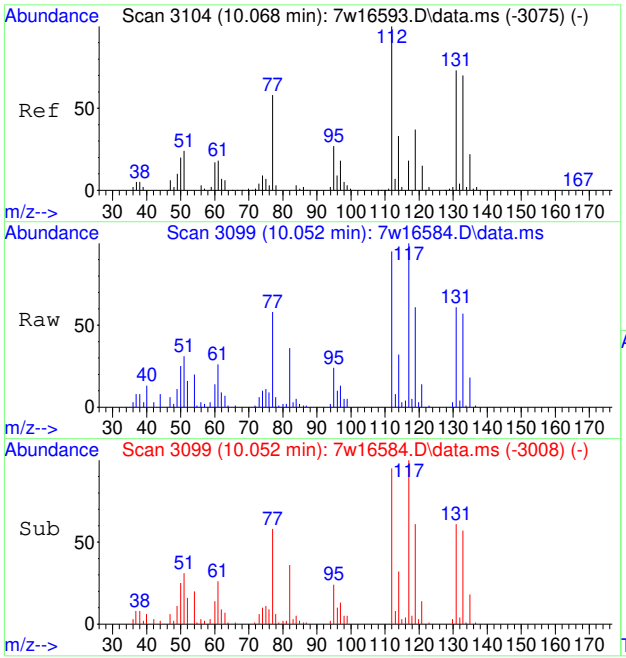


#75
OCTANE
Concen: 0.51 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 18440

Ion	Ratio	Lower	Upper
43	100		
85	44.3	36.5	67.9
57	43.3	27.6	51.2

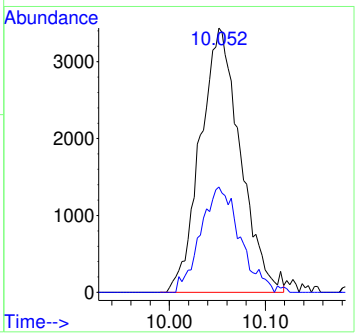


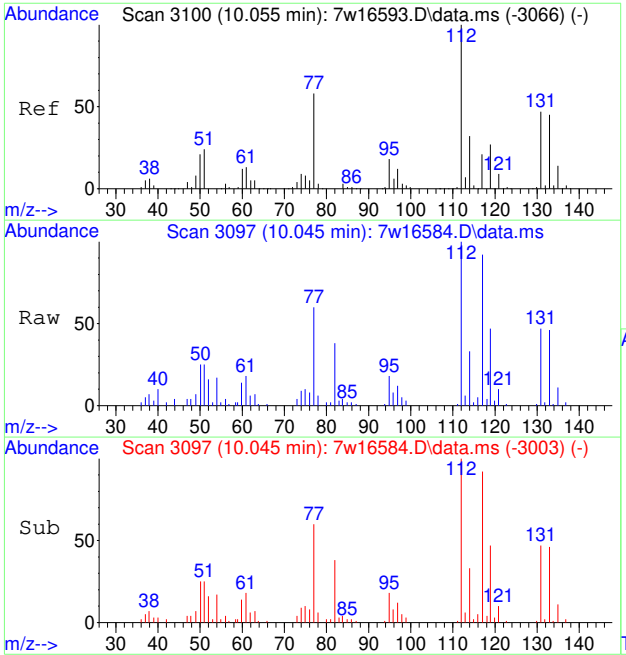


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.47 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:131 Resp: 9977

Ion	Ratio	Lower	Upper
131	100		
95	39.6	23.7	43.9

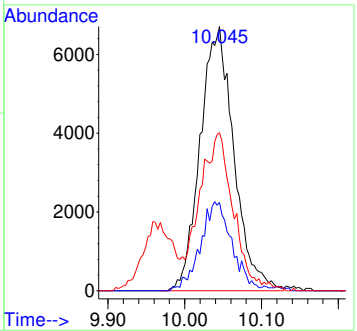


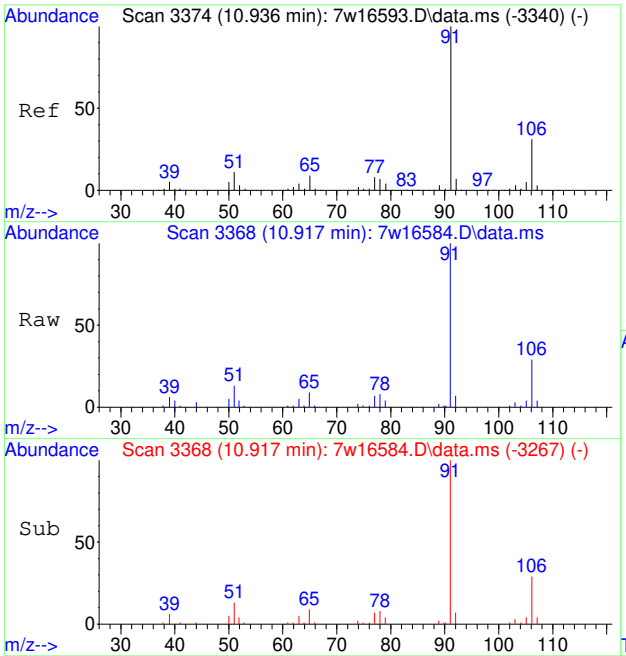


#78
CHLOROBENZENE
Concen: 0.52 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:112 Resp: 20418

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.7	34.4	63.8

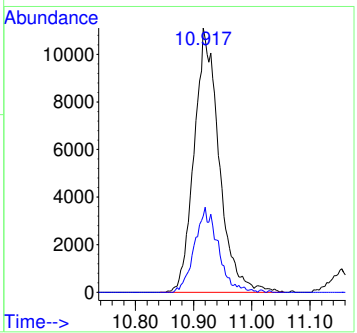


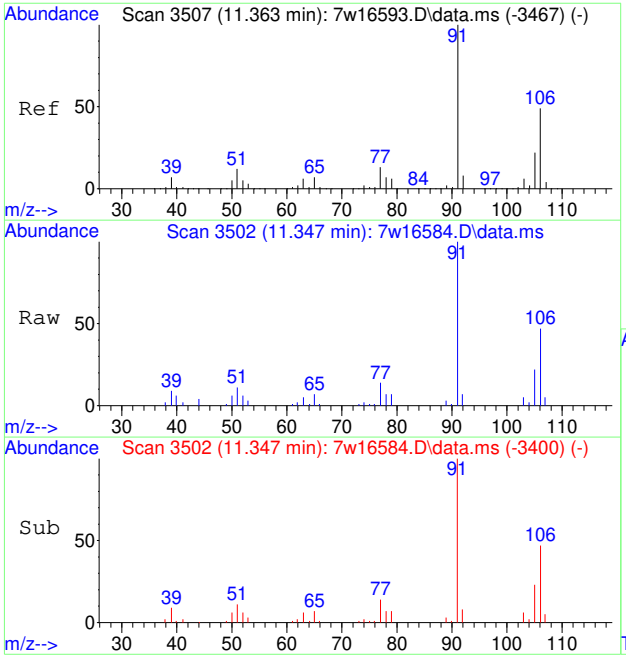


#79
ETHYLBENZENE
Concen: 0.52 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 33108

Ion	Ratio	Lower	Upper
91	100		
106	30.4	2.8	62.8

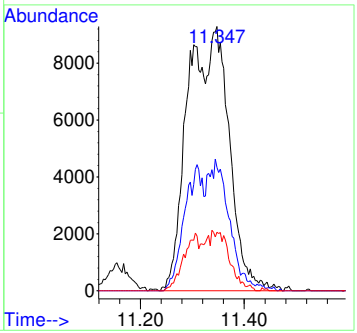


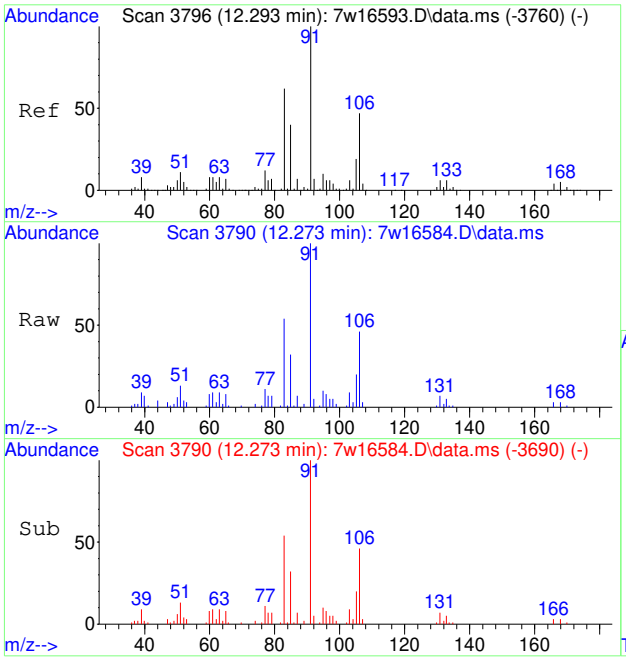


#80
M,P-XYLENE
Concen: 1.00 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 51511

Ion	Ratio	Lower	Upper
91	100		
106	27.3	0.0	58.7
105	12.4	0.0	43.2

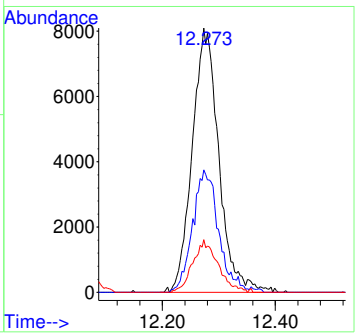


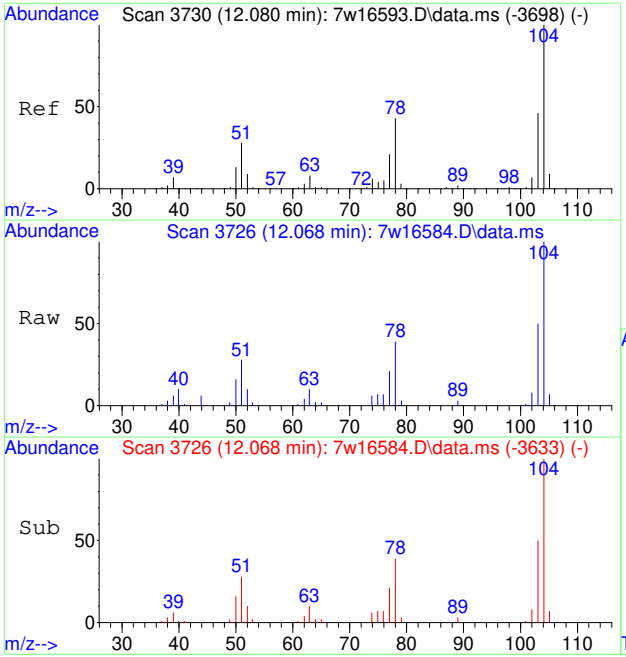


#81
O-XYLENE
Concen: 0.52 PPBV
RT: 12.273 min Scan# 3790
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 26468

Ion	Ratio	Lower	Upper
91	100		
106	46.3	34.1	63.3
105	19.9	14.6	27.2

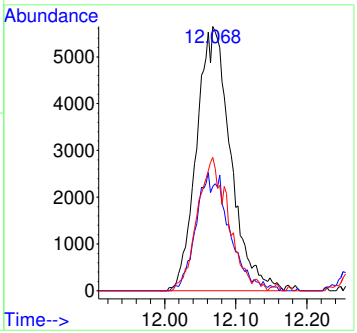


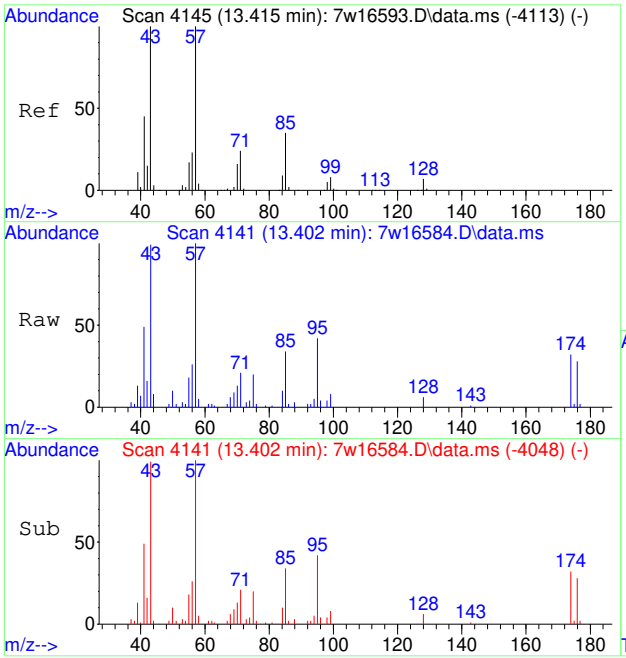


#82
STYRENE
Concen: 0.48 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:104 Resp: 18750

Ion	Ratio	Lower	Upper
104	100		
78	44.1	25.3	46.9
103	47.1	33.2	61.7

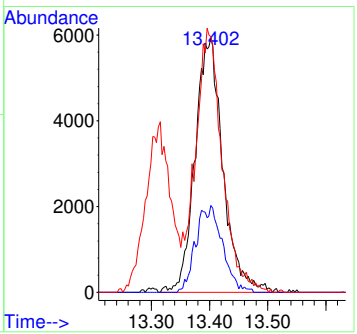


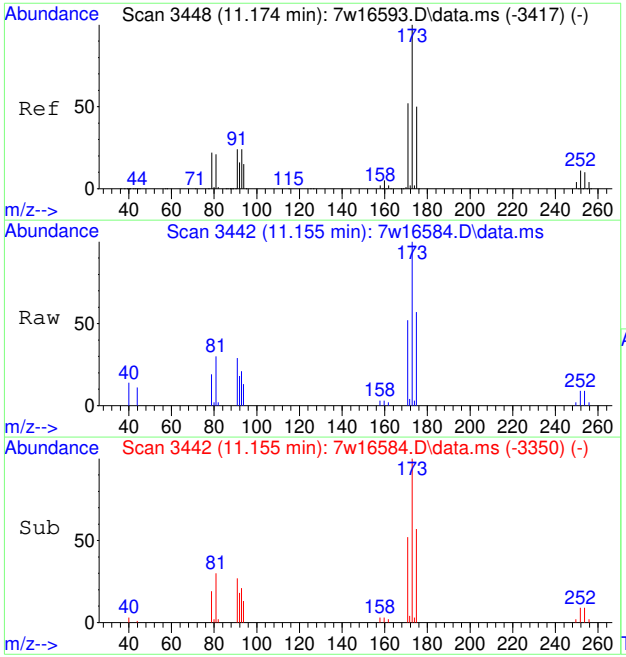


#83
NONANE
Concen: 0.51 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 19802

Ion	Ratio	Lower	Upper
43	100		
85	32.5	27.6	51.2
57	100.6	56.4	104.7

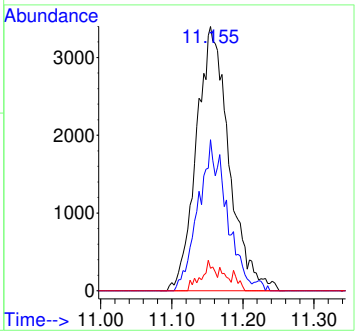


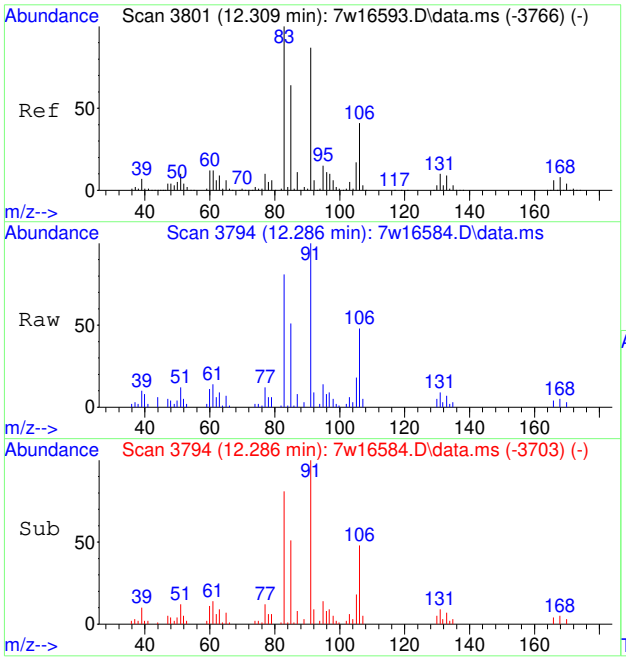


#84
BROMOFORM
Concen: 0.42 PPBV
RT: 11.155 min Scan# 3442
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:173 Resp: 10827

Ion	Ratio	Lower	Upper
173	100		
175	51.0	33.0	61.4
254	8.1	5.9	10.9

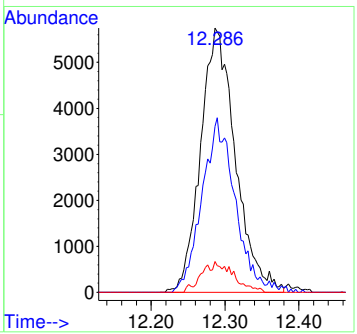


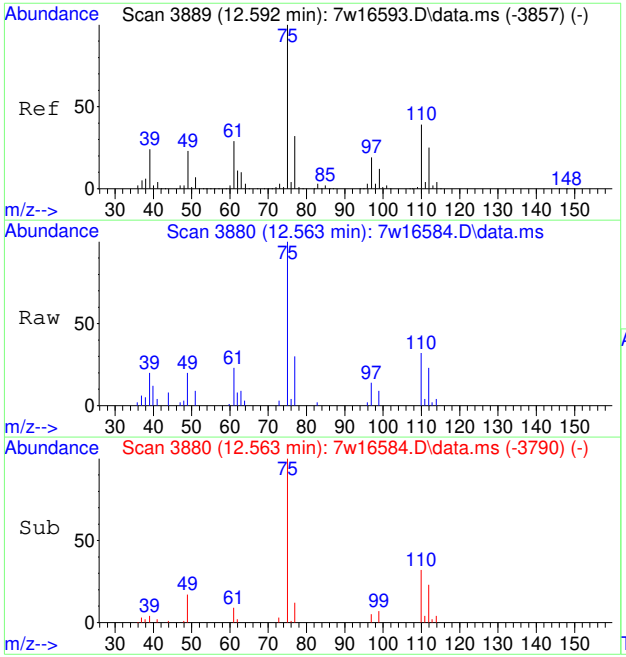


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.51 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 18876

Ion	Ratio	Lower	Upper
83	100		
85	63.1	44.6	82.8
131	10.6	8.0	14.8

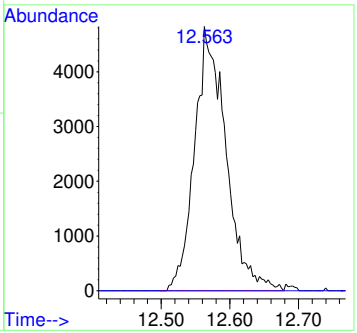


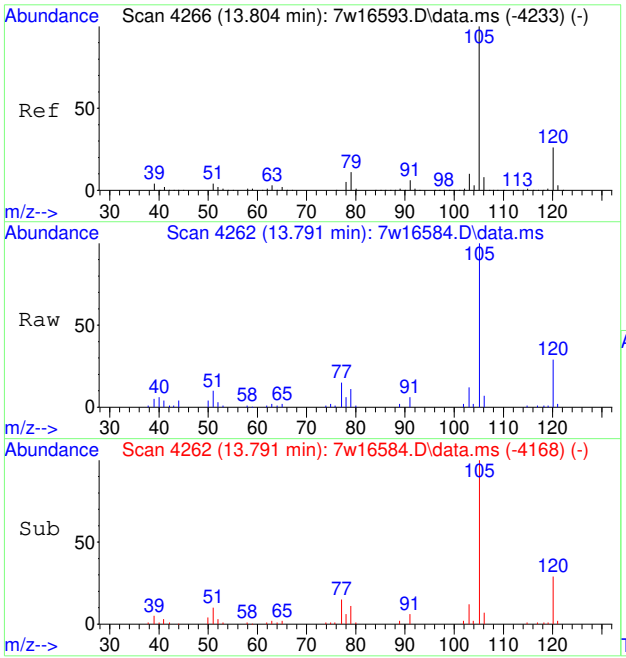


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.53 PPBV
RT: 12.563 min Scan# 3880
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 15262

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

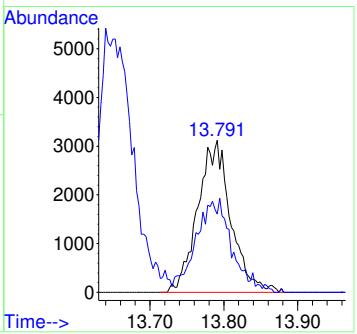


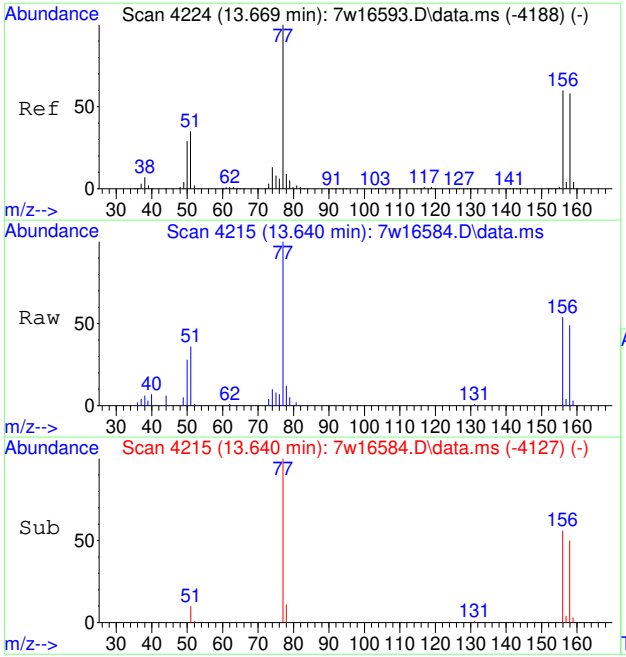


#88
ISOPROPYLBENZENE
Concen: 0.50 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9713

Ion	Ratio	Lower	Upper
120	100		
77	65.8	36.0	67.0

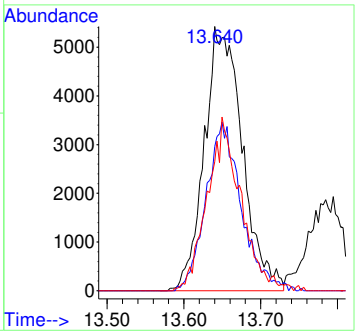


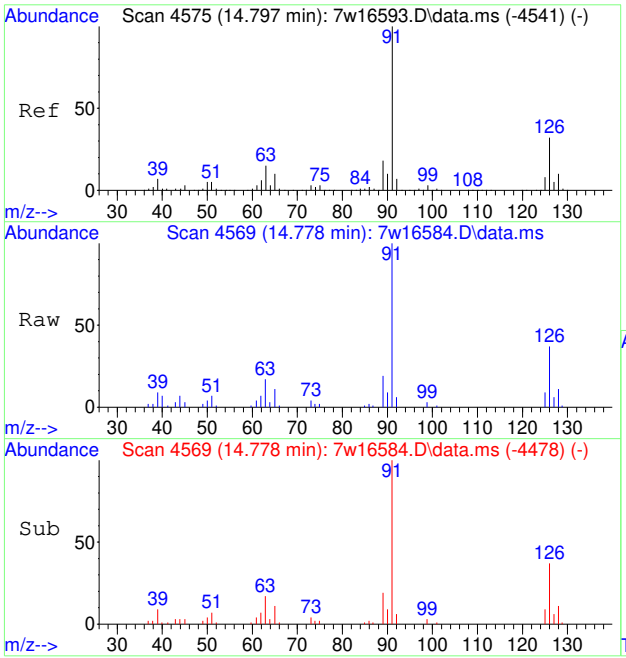


#89
BROMOBENZENE
Concen: 0.51 PPBV
RT: 13.640 min Scan# 4215
Delta R.T. -0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 77 Resp: 18640

Ion	Ratio	Lower	Upper
77	100		
156	59.5	57.9	107.5
158	57.9	55.7	103.5

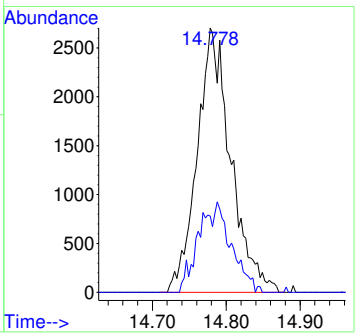


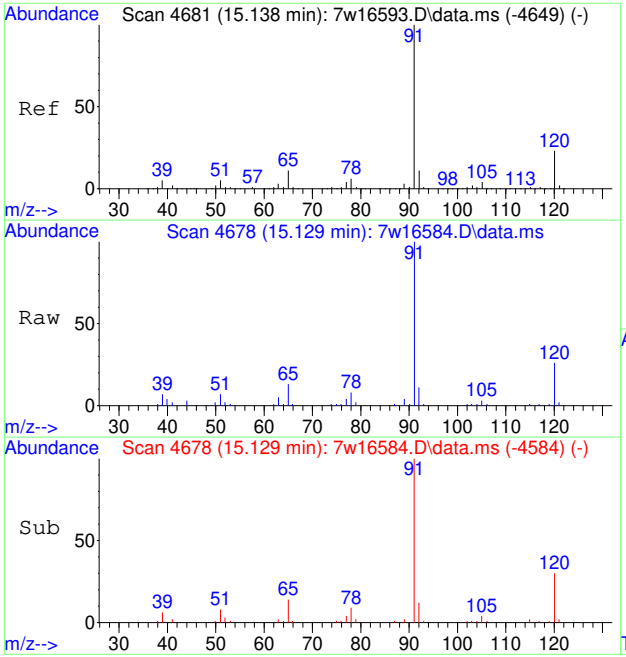


#90
2-CHLOROTOLUENE
Concen: 0.47 PPBV
RT: 14.778 min Scan# 4569
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:126 Resp: 8526

Ion	Ratio	Lower	Upper
126	100		
128	17.9	22.7	42.1#

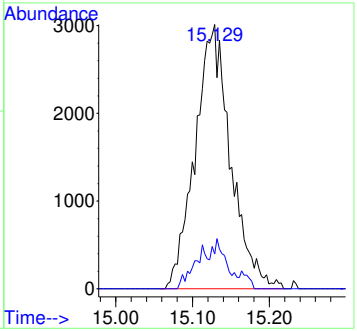


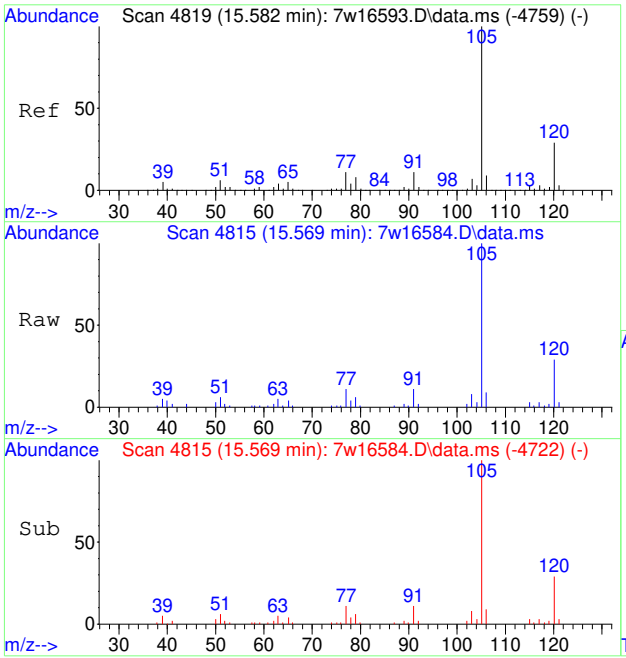


#91
N-PROPYLBENZENE
Concen: 0.46 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9669

Ion	Ratio	Lower	Upper
120	100		
105	15.8	10.6	19.6

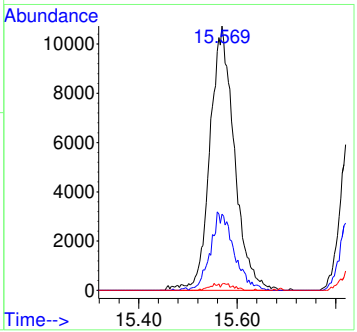


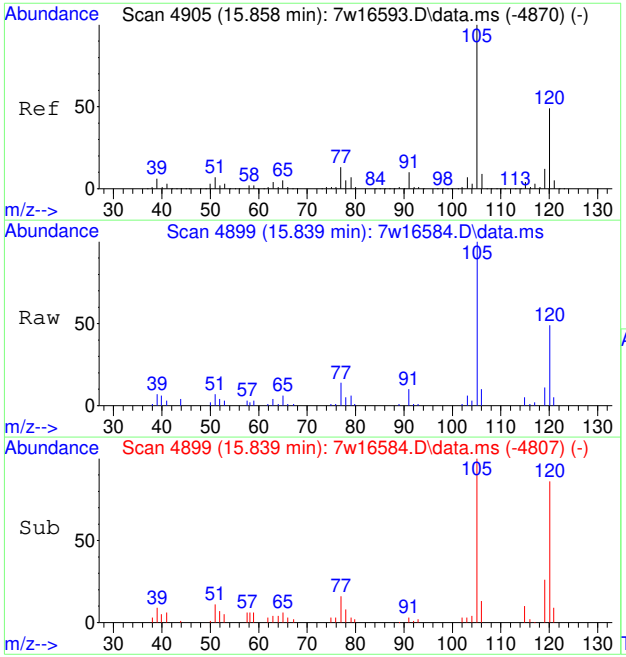


#92
4-ETHYLTOLUENE
Concen: 0.48 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 36862

Ion	Ratio	Lower	Upper
105	100		
120	0.0	21.8	40.4#
119	1.2	1.7	3.1#

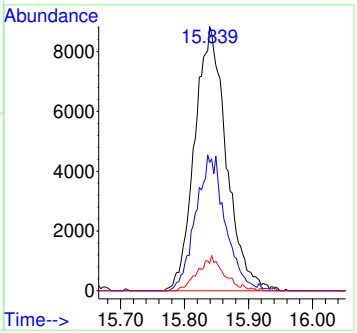


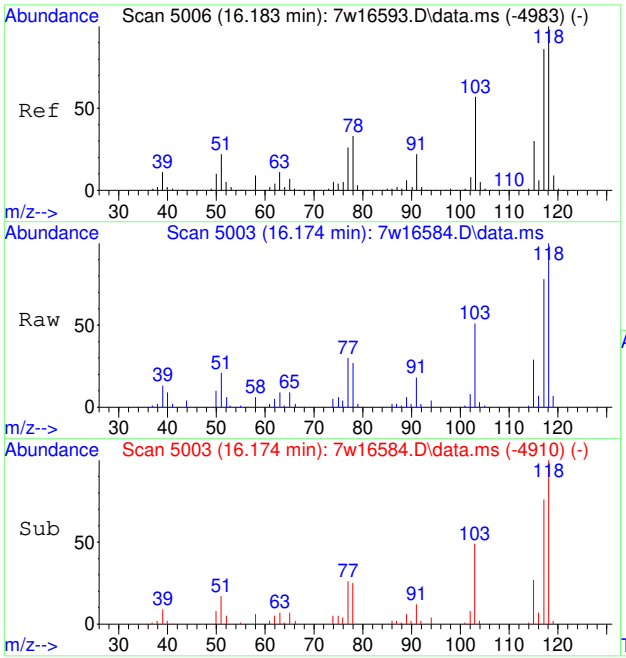


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.48 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30468

Ion	Ratio	Lower	Upper
105	100		
120	48.5	37.2	69.2
91	11.0	7.5	13.9

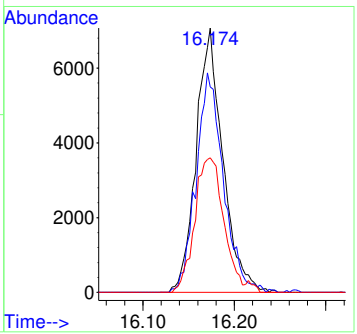


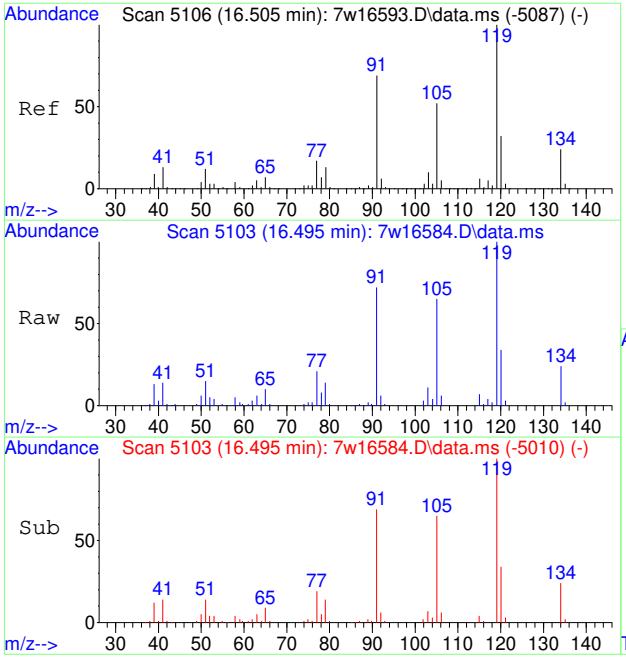


#94
ALPHA-METHYLSTYRENE
Concen: 0.44 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:118 Resp: 14307

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	56.7	36.2	67.2

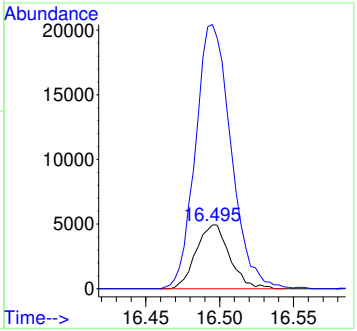


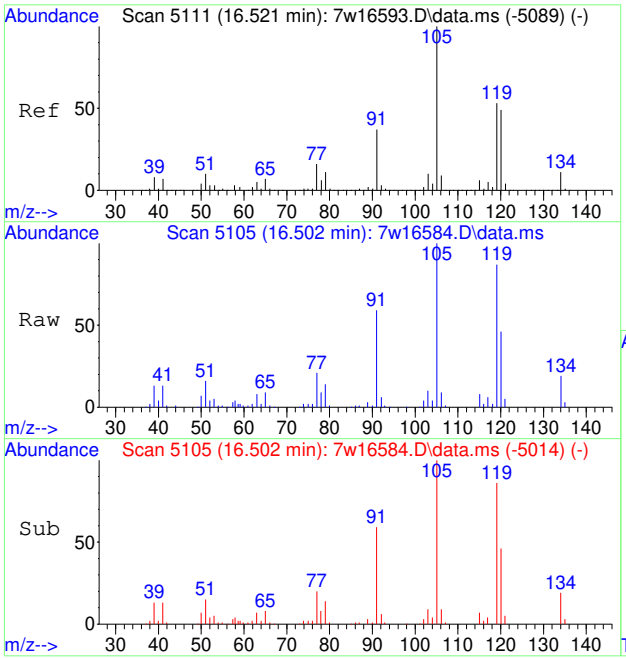


#95
TERT-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 7825

Ion	Ratio	Lower	Upper
134	100		
119	437.4	307.9	571.7

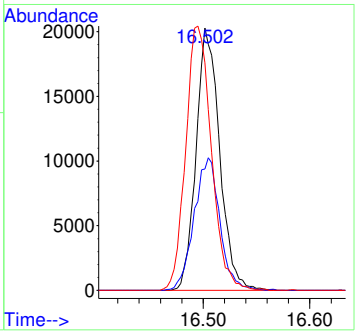


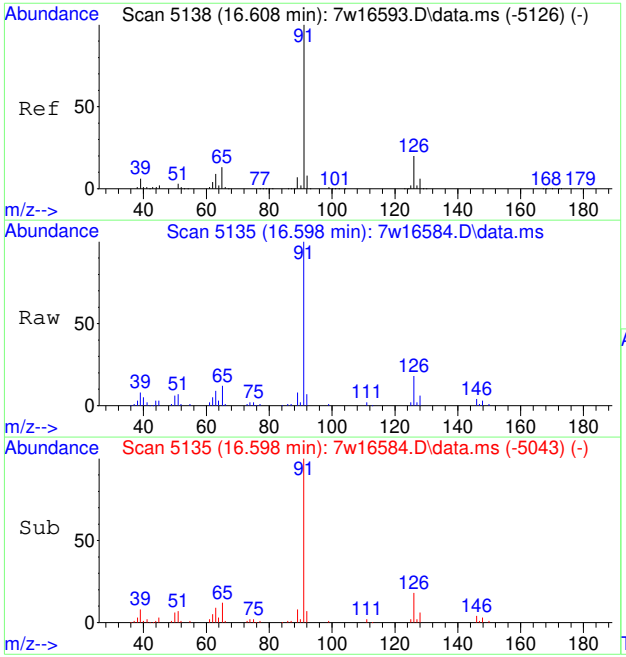


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.502 min Scan# 5105
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 31128

Ion	Ratio	Lower	Upper
105	100		
120	55.2	40.9	75.9
119	109.9	78.0	144.8

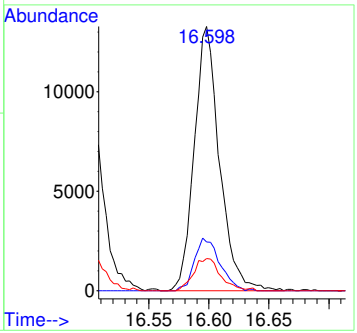


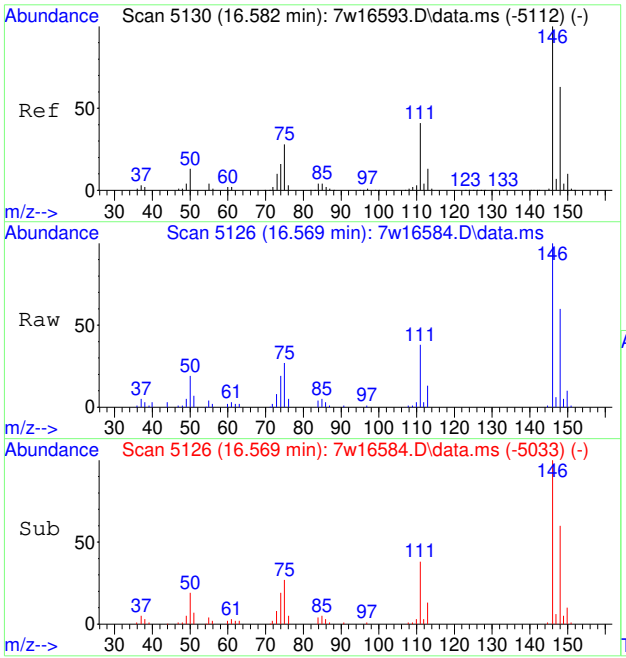


#97
BENZYL CHLORIDE
Concen: 0.35 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 19459

Ion	Ratio	Lower	Upper
91	100		
126	20.1	17.2	32.0
65	13.2	7.3	13.7

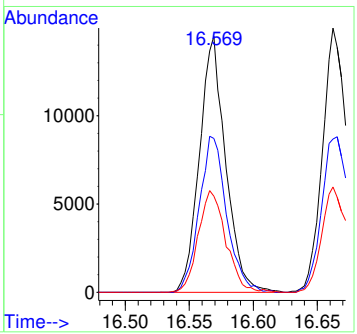


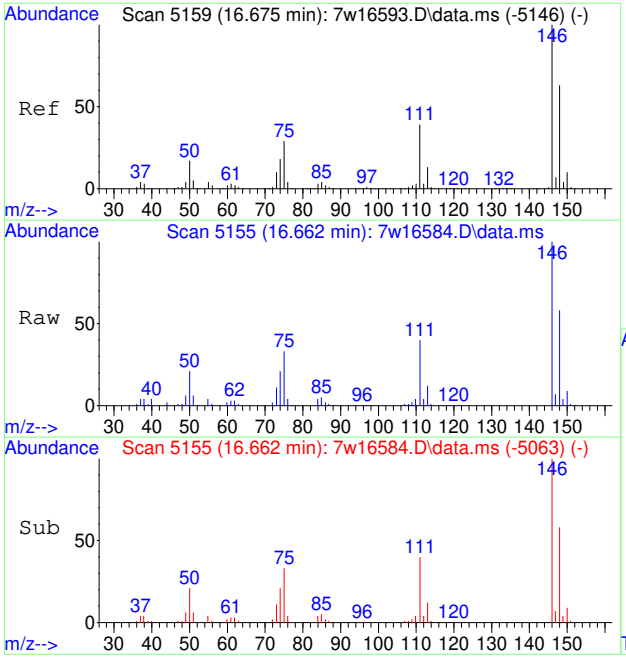


#98
M-DICHLOROBENZENE
Concen: 0.48 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20646

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	42.0	25.4	47.2

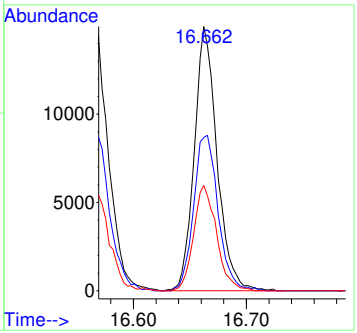


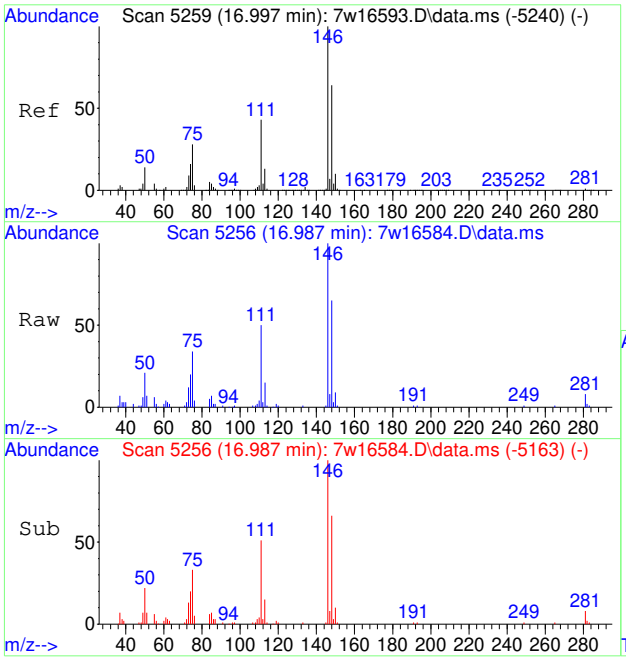


#99
P-DICHLOROBENZENE
Concen: 0.49 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20868

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	40.2	24.8	46.1

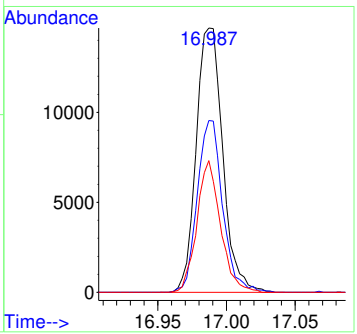


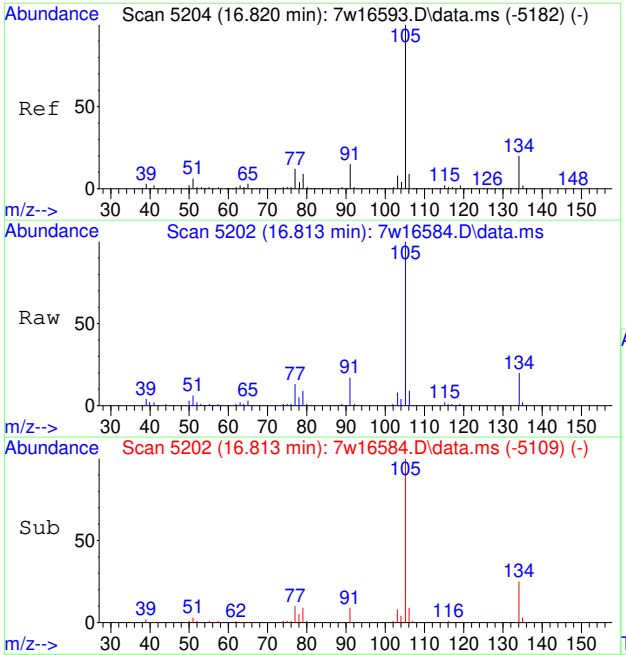


#100
O-DICHLOROBENZENE
Concen: 0.50 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 19799

Ion	Ratio	Lower	Upper
146	100		
148	62.1	44.6	82.8
111	44.3	26.9	50.1

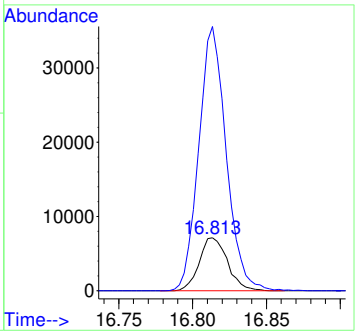


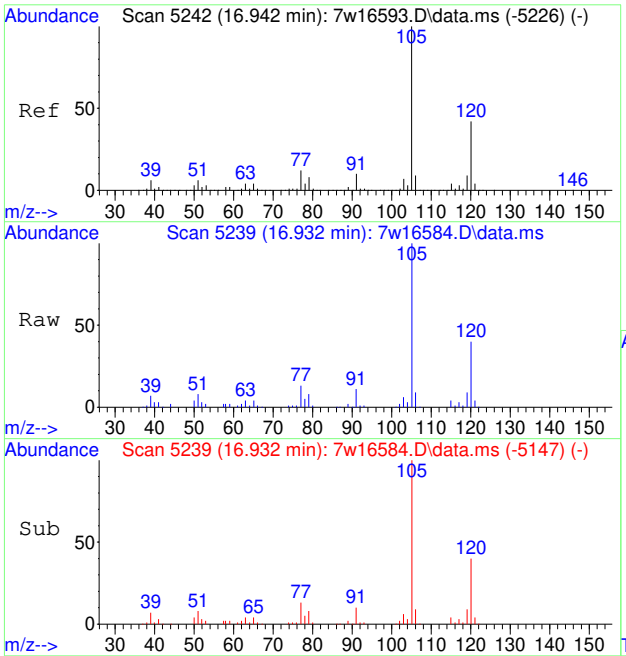


#101
SEC-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9482

Ion	Ratio	Lower	Upper
134	100		
105	484.9	314.4	584.0

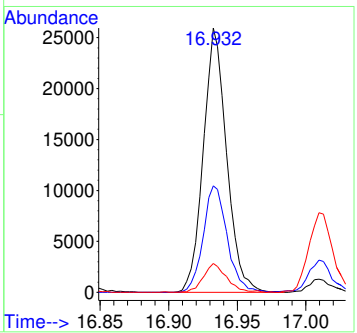


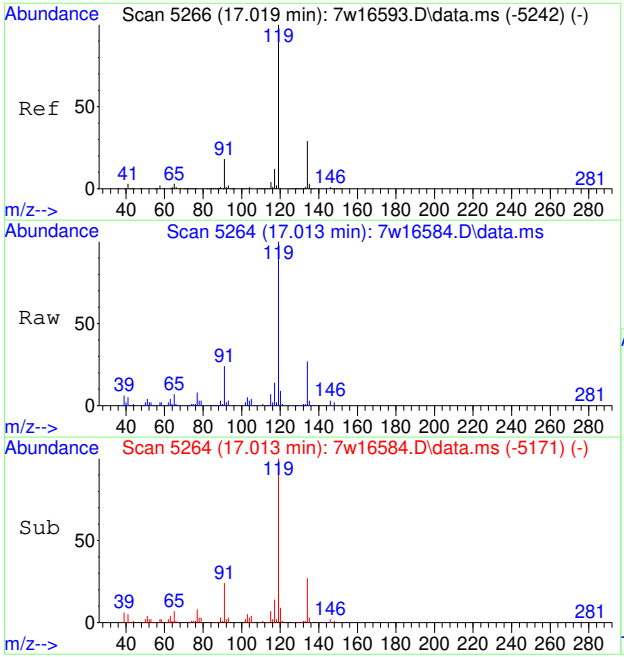


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30663

Ion	Ratio	Lower	Upper
105	100		
120	41.5	31.9	59.2
91	11.0	7.3	13.5

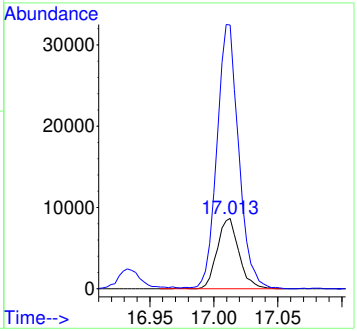


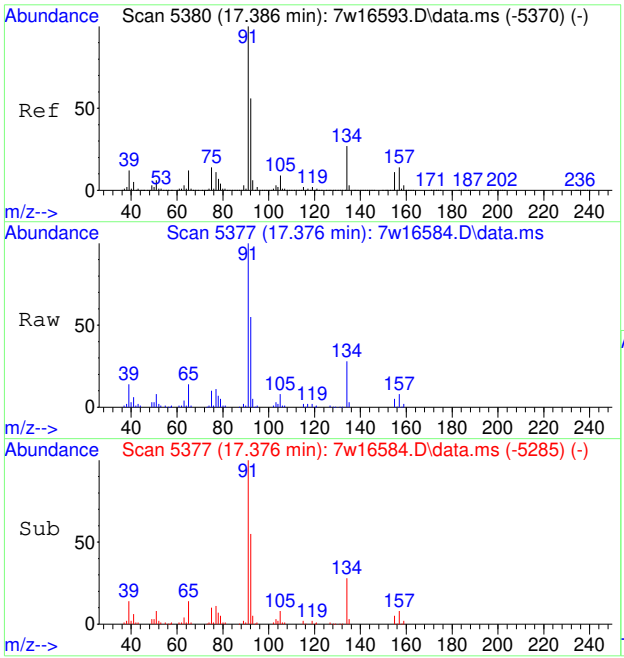


#103
P-ISOPROPYLTOLUENE
Concen: 0.49 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 10237

Ion	Ratio	Lower	Upper
134	100		
119	376.8	253.7	471.3

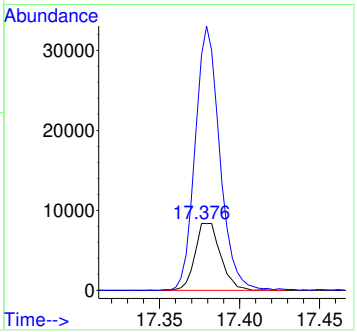


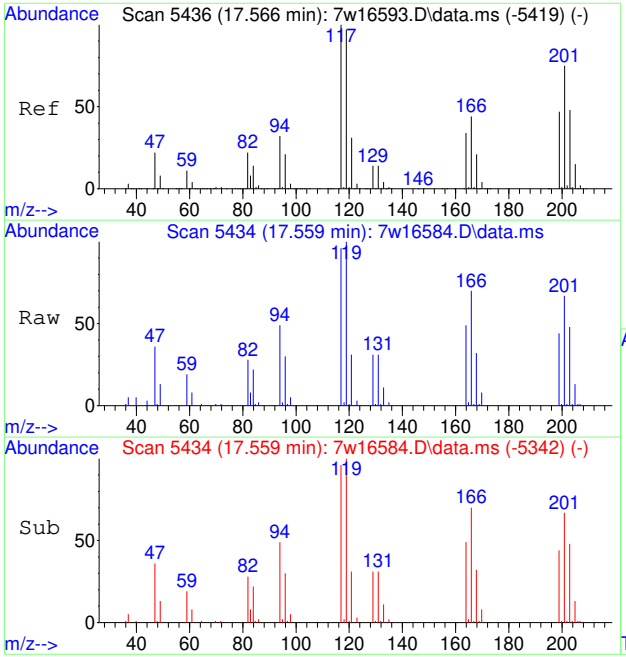


#104
N-BUTYLBENZENE
Concen: 0.47 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9347

Ion	Ratio	Lower	Upper
134	100		
91	380.4	231.1	429.1

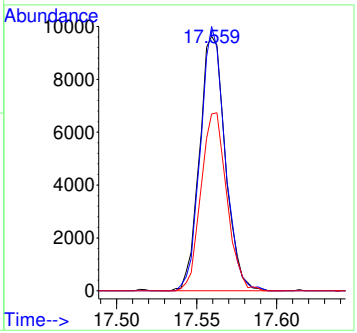


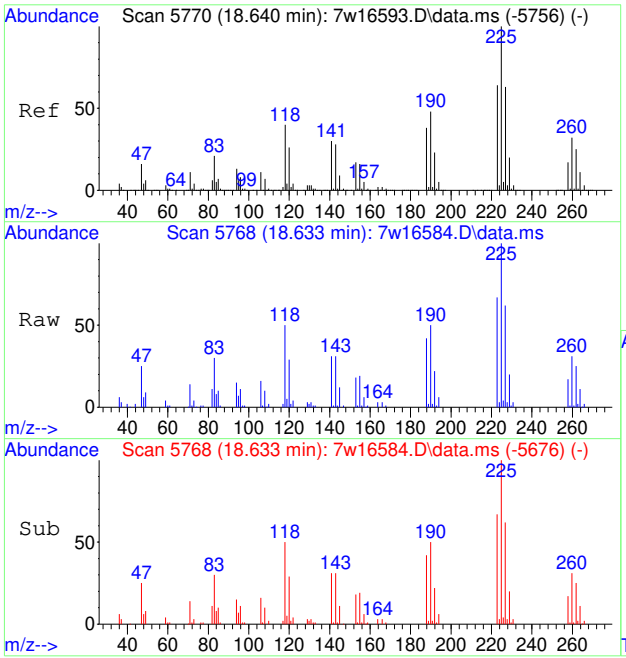


#105
HEXACHLOROETHANE
Concen: 0.44 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 10816

Ion	Ratio	Lower	Upper
117	100		
119	98.3	68.3	126.9
201	69.8	45.9	85.3

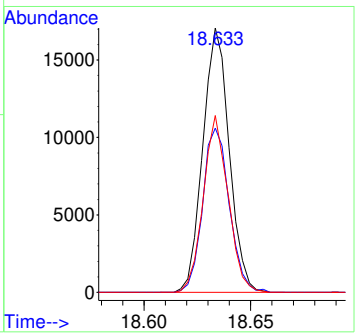


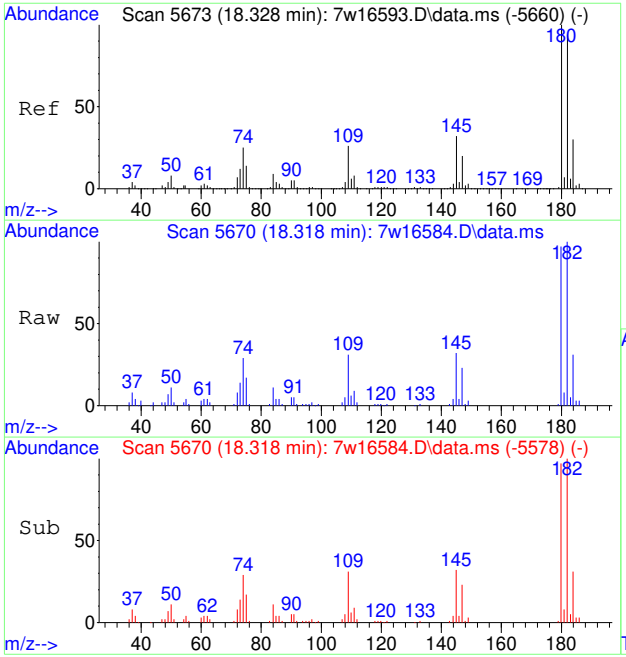


#106
HEXACHLOROBUTADIENE
Concen: 0.54 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:225 Resp: 14662

Ion	Ratio	Lower	Upper
225	100		
227	62.8	44.4	82.5
223	62.8	44.7	83.1

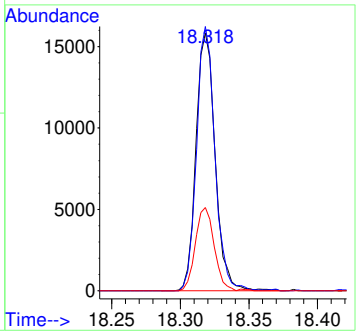


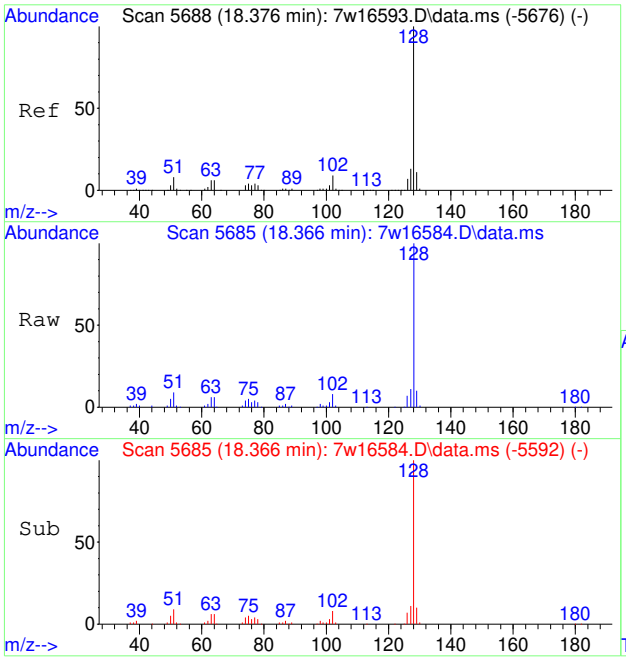


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.44 PPBV
RT: 18.318 min Scan# 5670
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:180 Resp: 15355

Ion	Ratio	Lower	Upper
180	100		
182	98.7	66.8	124.0
145	32.0	23.1	42.9

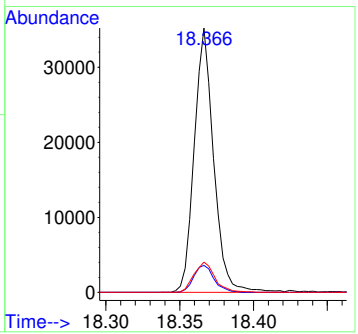


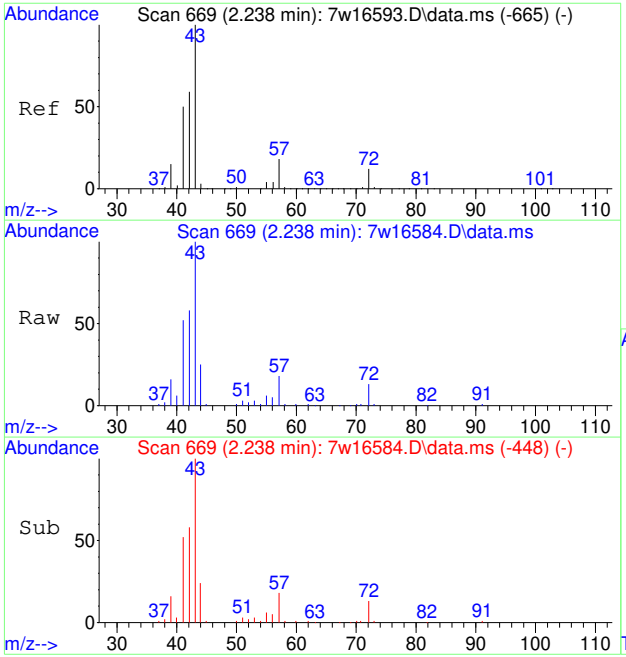


#108
NAPHTHALENE
Concen: 0.40 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:128 Resp: 32243

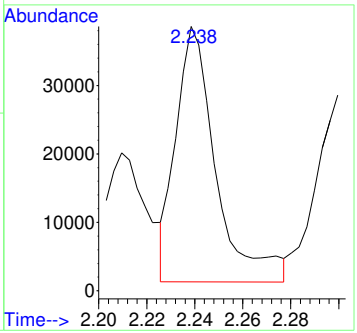
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.4	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.69 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:TIC Resp: 43130



7.7.17

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16584.D
Injection Time: 08/07/25 09:13

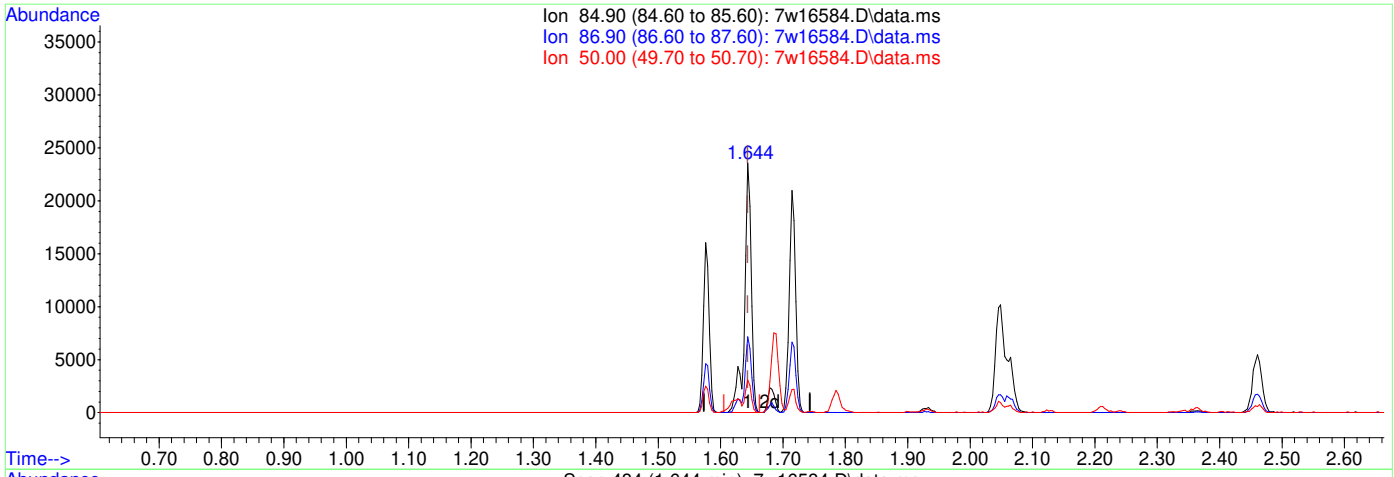
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

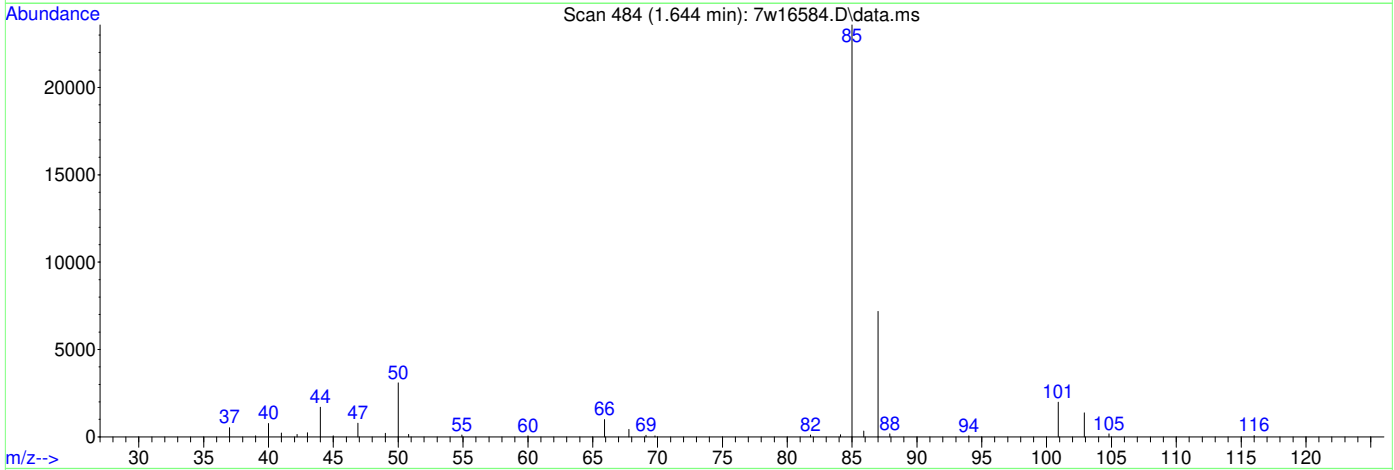
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.52PPBV

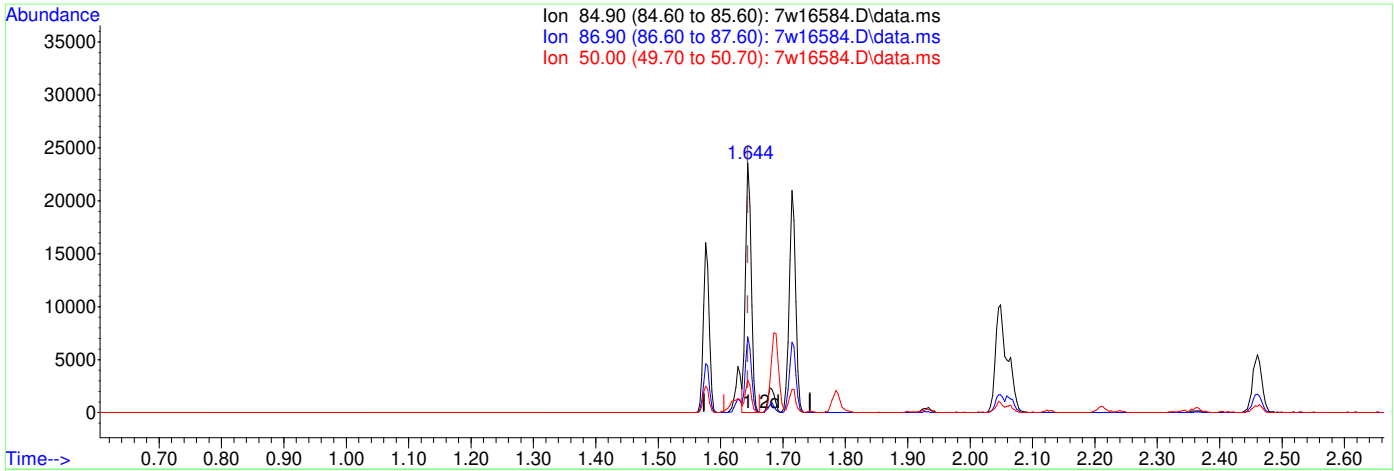
response 17704

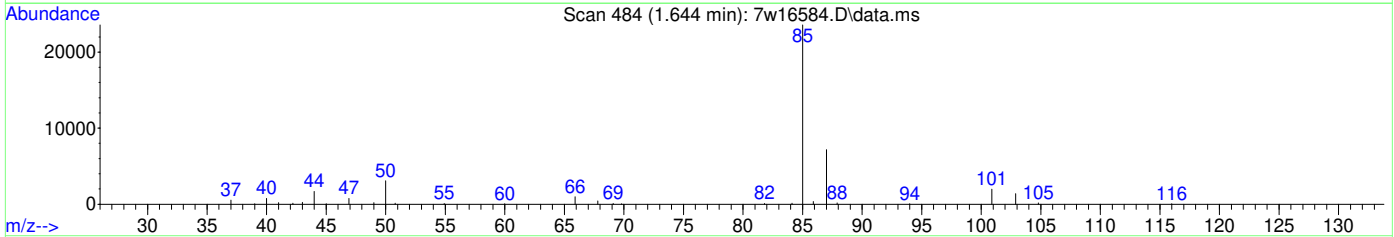
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.09
50.00	17.30	20.09
0.00	0.00	0.00

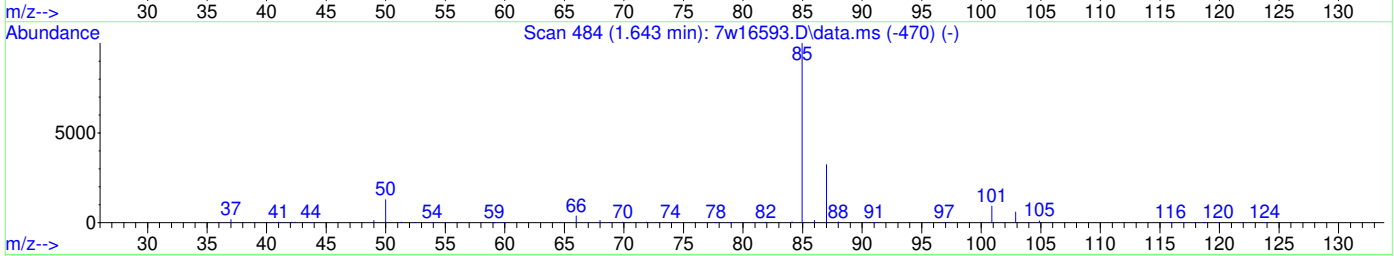
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.44PPBV m

response 14890

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.16
50.00	17.30	23.88#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110309	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	561645	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511167	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110309	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415987	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	71924	5.05	PPBV		88
3) FREON 152A	1.605	65	34756	5.11	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	16247	5.26	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	77653	5.13	PPBV		72
6) DICHLORODIFLUOROMETHANE	1.643	85	143733m	4.36	PPBV		
7) PROPYLENE	1.627	41	44998	5.15	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	131345	5.33	PPBV		99
9) FREON 114	1.714	85	147028	5.09	PPBV		83
10) CHLOROMETHANE	1.688	52	19944	5.36	PPBV		96
11) VINYL CHLORIDE	1.746	62	69360	5.02	PPBV		98
12) 1,3-BUTADIENE	1.785	54	53869	5.04	PPBV	#	74
13) N-BUTANE	1.801	43	95908	5.23	PPBV		98
14) BROMOMETHANE	1.859	94	52720	5.02	PPBV		97
15) CHLOROETHANE	1.904	64	35268	4.83	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	127414	4.88	PPBV		96
17) ACETONITRILE	1.994	41	54085	4.71	PPBV		97
18) ACROLEIN	2.032	56	30491	5.10	PPBV		97
19) FREON 123	2.049	83	138654	5.20	PPBV		97
20) FREON 123A	2.065	117	81977	5.24	PPBV	#	56
21) TRICHLOROFLUOROMETHANE	2.129	101	150765	4.96	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	131851	5.23	PPBV		89
23) ACETONE	2.071	58	34925	5.00	PPBV		67
24) PENTANE	2.241	42	67328	5.17	PPBV		89
25) IODOMETHANE	2.299	142	145418	5.22	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	59691	5.29	PPBV	#	61
27) CARBON DISULFIDE	2.463	76	169676	5.18	PPBV		94
28) ETHANOL	1.933	45	31099	4.82	PPBV		98
29) BROMOETHENE	2.004	106	53853	4.91	PPBV		95
30) ACRYLONITRILE	2.209	52	50954	5.27	PPBV		98
31) METHYLENE CHLORIDE	2.364	84	53489	5.00	PPBV	#	78
32) 3-CHLOROPROPENE	2.405	76	30822	5.04	PPBV		72
33) FREON 113	2.460	151	91200	5.19	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.685	96	62237	5.00	PPBV	#	64
35) TERTIARY BUTYL ALCOHOL	2.338	59	146023	4.75	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	180915	5.12	PPBV		97
37) TETRAHYDROFURAN	3.470	72	27419	4.64	PPBV		76
38) HEXANE	3.241	57	121135	5.18	PPBV		82
39) VINYL ACETATE	2.827	86	16334	4.75	PPBV		70
40) 1,1-DICHLOROETHANE	2.759	63	121863	4.97	PPBV		97
41) METHYL ETHYL KETONE	2.923	72	31986	5.07	PPBV	#	83
42) CIS-1,2-DICHLOROETHENE	3.113	96	64888	5.01	PPBV	#	74
43) DIISOPROPYL ETHER	3.245	59	35230	5.24	PPBV		90
44) ETHYL ACETATE	3.248	61	23700	4.98	PPBV		68
45) METHYL ACRYLATE	3.235	55	147700	5.10	PPBV	#	98
46) CHLOROFORM	3.261	83	130788	5.10	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	139904	5.24	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	135968	5.09	PPBV		95
49) CARBON TETRACHLORIDE	4.235	117	140153	4.91	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.659	62	100577	5.00	PPBV		98
51) BENZENE	4.129	78	190147	5.07	PPBV		90
53) CYCLOHEXANE	4.335	84	86740	5.03	PPBV	#	69
54) 2,3-DIMETHYLPENTANE	4.585	71	44676	5.09	PPBV		68
55) TRICHLOROETHENE	5.013	95	87453	4.76	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	79932	4.94	PPBV		92
57) DIBROMOMETHANE	4.740	174	74130	4.94	PPBV		91
58) ETHYL ACRYLATE	4.901	55	184653	5.03	PPBV	#	96
59) BROMODICHLOROMETHANE	4.958	83	145254	4.78	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	376202	4.91	PPBV	#	95
61) 1,4-DIOXANE	5.029	88	43182	4.76	PPBV	#	83
62) HEPTANE	5.418	43	129447	5.06	PPBV		90
63) METHYL METHACRYLATE	5.315	69	72765	4.95	PPBV		88
64) METHYL ISOBUTYL KETONE	6.039	58	73624	4.88	PPBV		79
65) CIS-1,3-DICHLOROPROPENE	5.939	75	122774	4.78	PPBV		97
66) TOLUENE	7.129	91	237199	5.09	PPBV		98
67) 1,3-DICHLOROPROPANE	7.183	76	121971	5.06	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	6.605	75	107017	4.46	PPBV		97
69) 1,1,2-TRICHLOROETHANE	6.762	83	68995	5.00	PPBV		96
70) 2-HEXANONE	7.695	58	99491	5.01	PPBV	#	79
71) ETHYL METHACRYLATE	7.833	69	125849	4.97	PPBV		95
72) TETRACHLOROETHENE	8.846	164	87888	5.13	PPBV		97
73) DIBROMOCHLOROMETHANE	7.659	129	139976	4.88	PPBV		98
74) 1,2-DIBROMOETHANE	7.997	107	130464	5.30	PPBV		99
75) OCTANE	8.997	43	180997	5.16	PPBV		91
77) 1,1,1,2-TETRACHLOROETHANE	10.055	131	104080	5.17	PPBV		91
78) CHLOROBENZENE	10.042	112	194976	5.29	PPBV		89
79) ETHYLBENZENE	10.920	91	322003	5.30	PPBV		97
80) M,P-XYLENE	11.350	91	506054	10.38	PPBV		99
81) O-XYLENE	12.280	91	257748	5.40	PPBV		95
82) STYRENE	12.067	104	194546	5.23	PPBV		94
83) NONANE	13.402	43	192916	5.27	PPBV		83
84) BROMOFORM	11.158	173	119167	4.90	PPBV		94
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	186265	5.35	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	12.572	75	146270	5.34	PPBV		100
88) ISOPROPYLBENZENE	13.788	120	96509	5.28	PPBV		85
89) BROMOBENZENE	13.646	77	183496	5.30	PPBV		75
90) 2-CHLOROTOLUENE	14.784	126	86951	5.02	PPBV		100
91) N-PROPYLBENZENE	15.128	120	101472	5.12	PPBV		96
92) 4-ETHYLTOLUENE	15.569	105	373811	5.20	PPBV		97
93) 1,3,5-TRIMETHYLBENZENE	15.839	105	312677	5.22	PPBV		94
94) ALPHA-METHYLSTYRENE	16.173	118	154689	5.06	PPBV		96
95) TERT-BUTYLBENZENE	16.498	134	77024	5.33	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	320531	5.29	PPBV		95
97) BENZYL CHLORIDE	16.598	91	250636	4.80	PPBV		92
98) M-DICHLOROBENZENE	16.569	146	206691	5.11	PPBV		96
99) P-DICHLOROBENZENE	16.662	146	210041	5.27	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	196281	5.24	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	94529	5.43	PPBV		84
102) 1,2,3-TRIMETHYLBENZENE	16.935	105	310890	5.23	PPBV		95
103) P-ISOPROPYLTOLUENE	17.009	134	102620	5.24	PPBV		93
104) N-BUTYLBENZENE	17.379	134	99471	5.28	PPBV		79
105) HEXACHLOROETHANE	17.559	117	121985	5.22	PPBV		97
106) HEXACHLOROBUTADIENE	18.630	225	144324	5.62	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.315	180	179655	5.43	PPBV		100
108) NAPHTHALENE	18.363	128	413175	5.36	PPBV		100
110) TVHC as equiv Pentane	2.238	TIC	315100	5.18	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

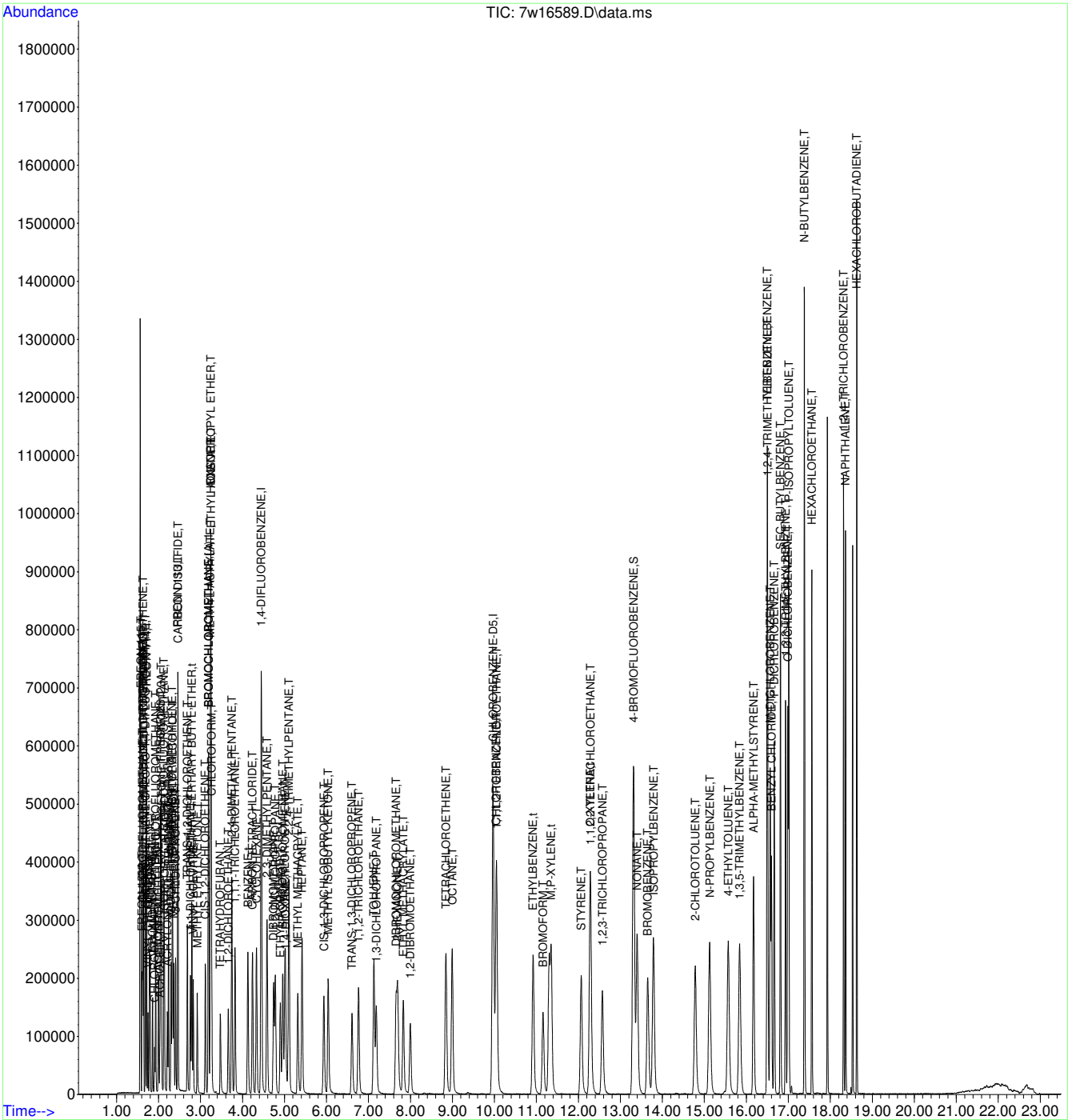
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

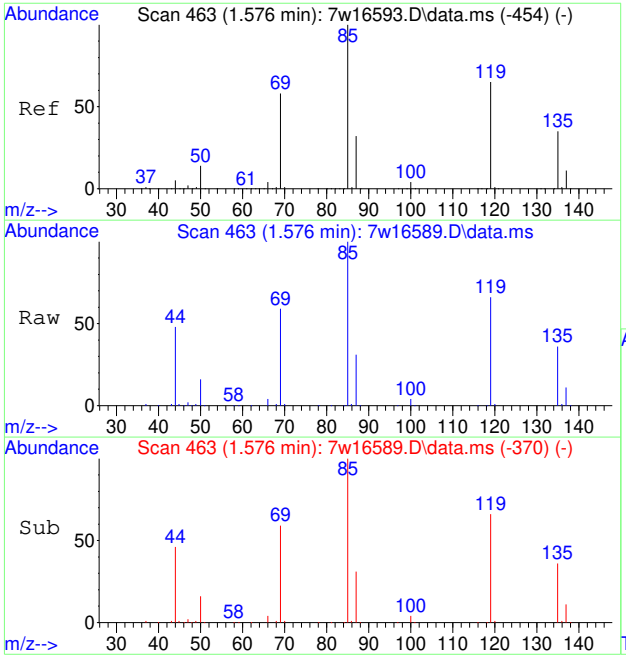
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

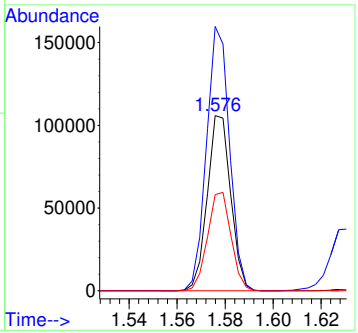


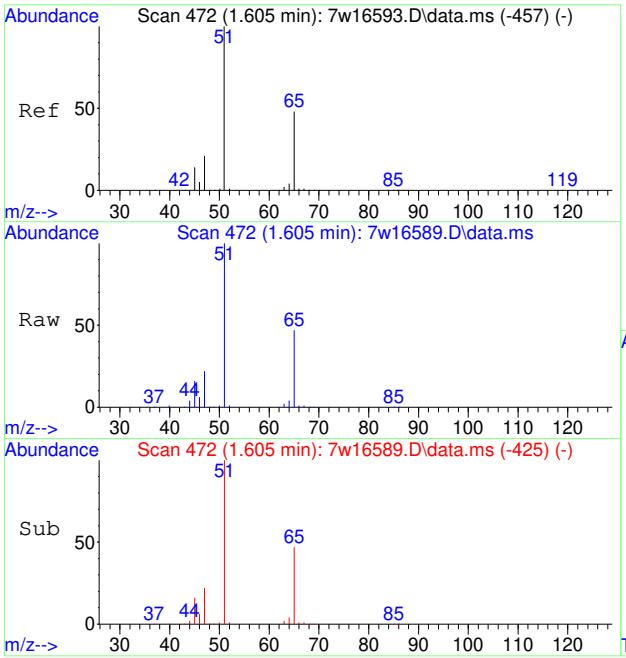


#2
FREON 115
Concen: 5.05 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:119 Resp: 71924

Ion	Ratio	Lower	Upper
119	100		
85	148.1	90.9	168.7
135	56.4	38.2	71.0

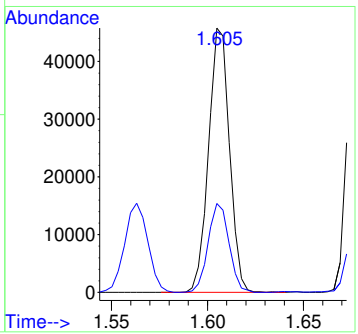


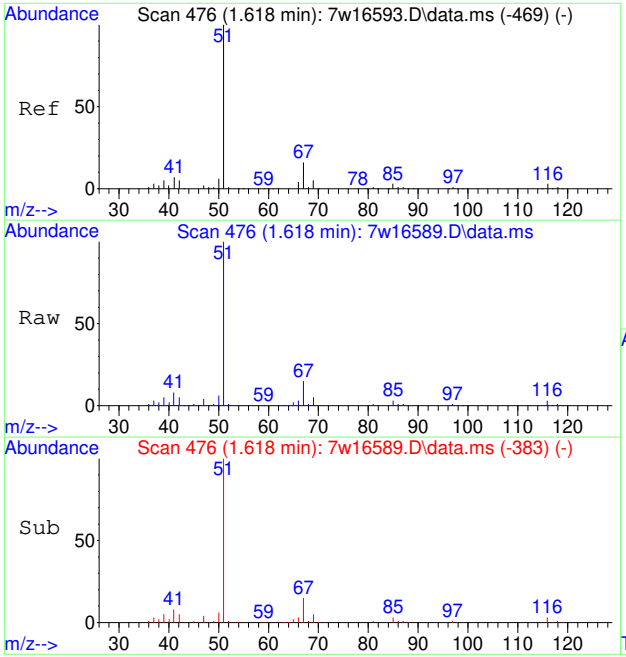


#3
FREON 152A
Concen: 5.11 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 34756

Ion	Ratio	Lower	Upper
65	100		
45	33.5	20.6	38.4

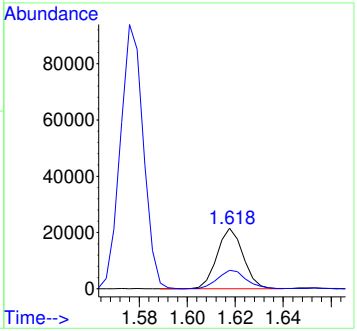


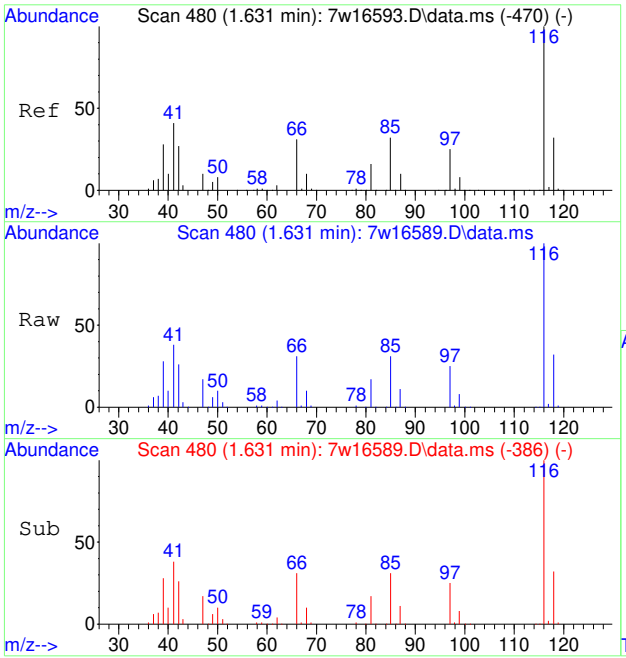


#4
CHLORODIFLUOROMETHANE
Concen: 5.26 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 16247

Ion	Ratio	Lower	Upper
67	100		
69	33.3	25.4	47.2

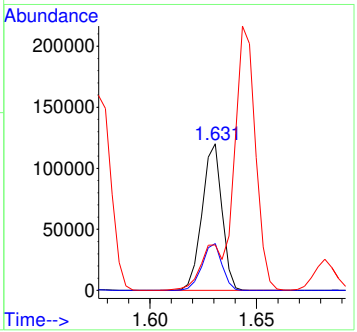


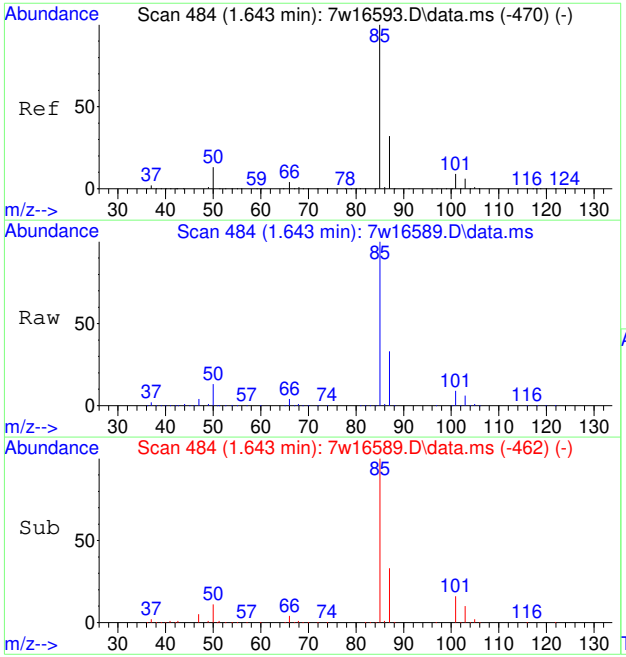


#5
CHLOROTRIFLUOROETHENE
Concen: 5.13 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:116 Resp: 77653

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.7	42.1
85	219.4	194.7	361.7

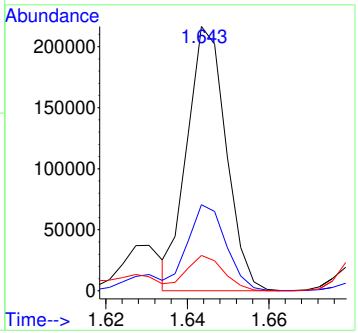


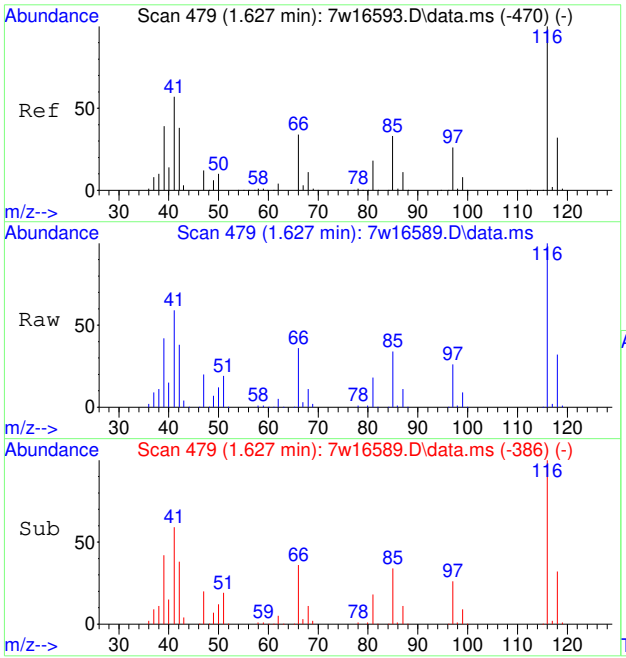


#6
DICHLORODIFLUOROMETHANE
Concen: 4.36 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 143733

Ion	Ratio	Lower	Upper
85	100		
87	38.6	23.1	42.9
50	22.8	12.1	22.5#

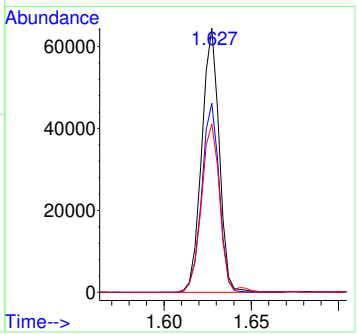


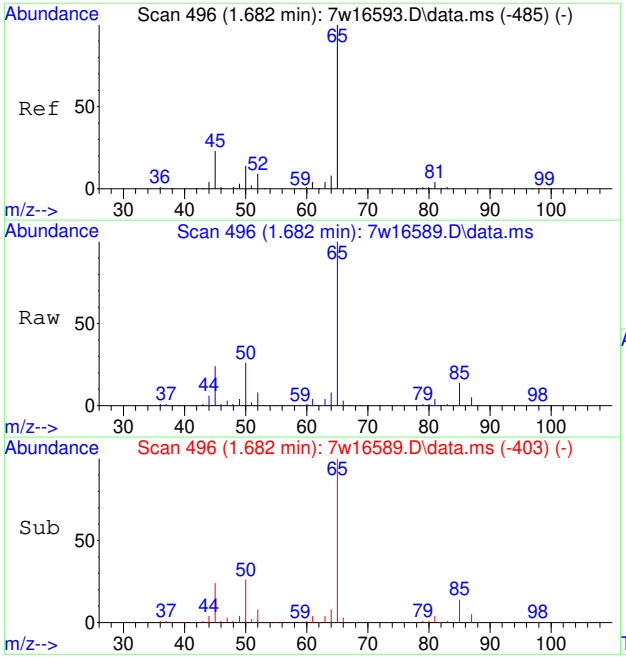


#7
PROPYLENE
Concen: 5.15 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 44998

Ion	Ratio	Lower	Upper
41	100		
39	71.7	51.0	94.8
42	67.5	46.6	86.6

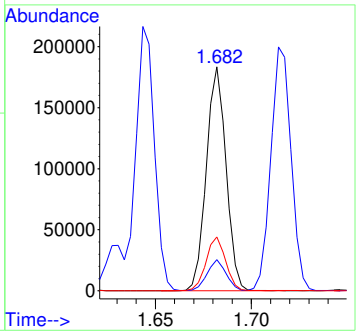


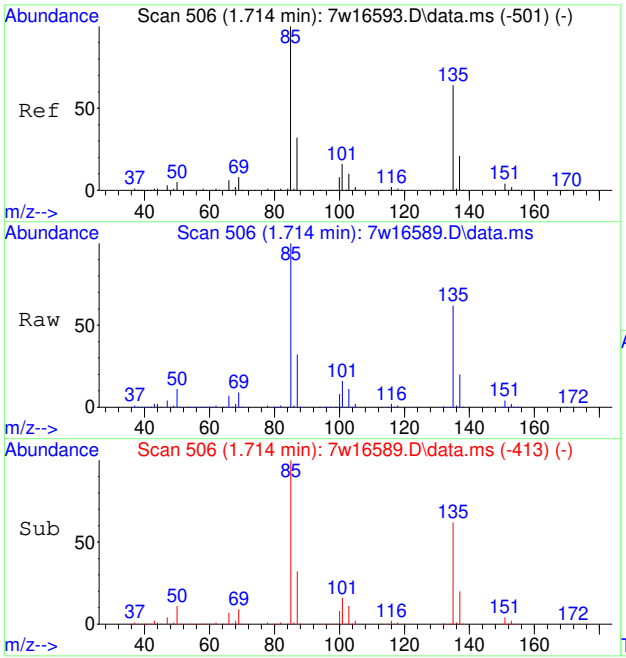


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 5.33 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 131345

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.7	17.9
45	23.8	17.0	31.6

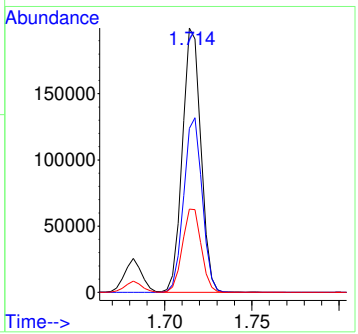


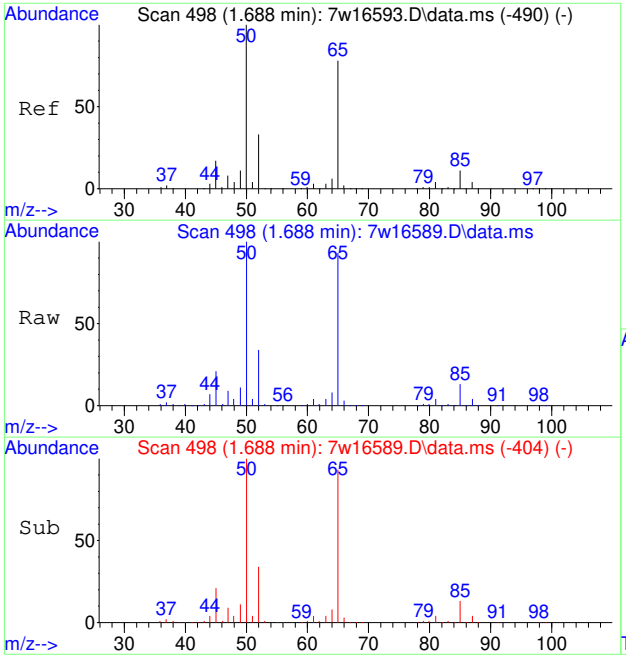


#9
FREON 114
Concen: 5.09 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 147028

Ion	Ratio	Lower	Upper
85	100		
135	66.0	61.3	113.9
87	32.2	23.2	43.0

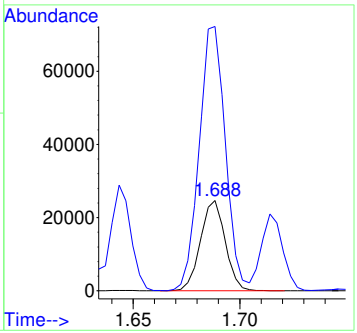


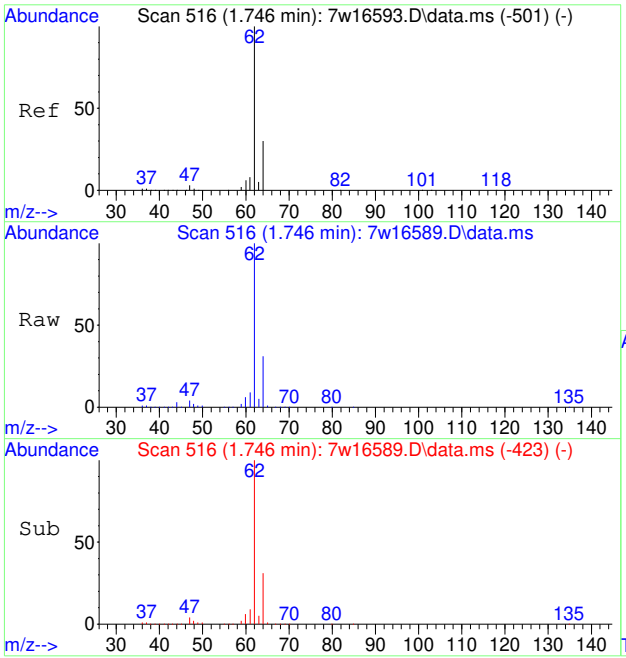


#10
CHLOROMETHANE
Concen: 5.36 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 19944

Ion	Ratio	Lower	Upper
52	100		
50	315.9	227.6	422.6

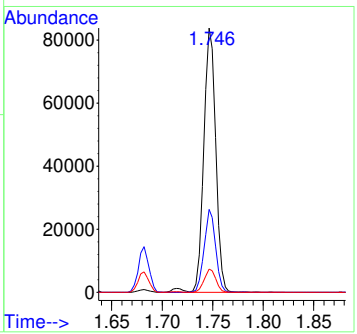


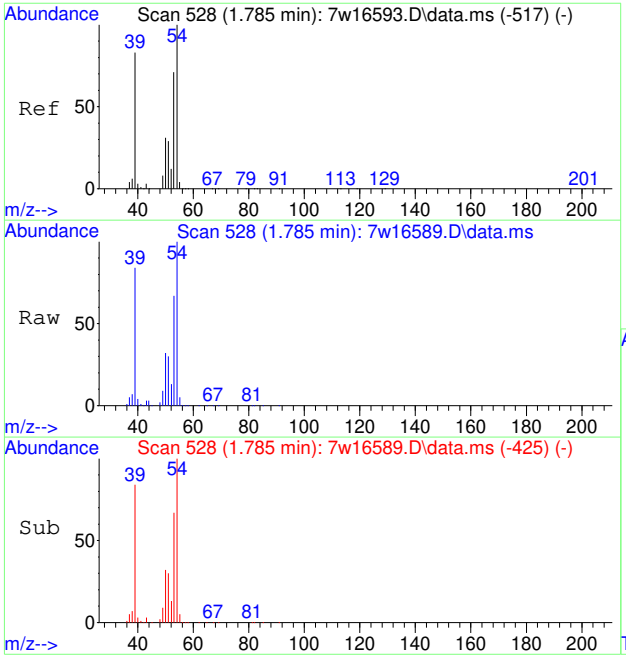


#11
VINYL CHLORIDE
Concen: 5.02 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 69360

Ion	Ratio	Lower	Upper
62	100		
64	29.9	21.6	40.2
61	8.5	5.7	10.7

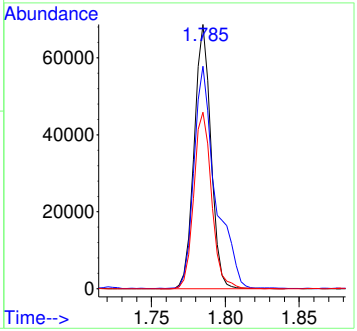


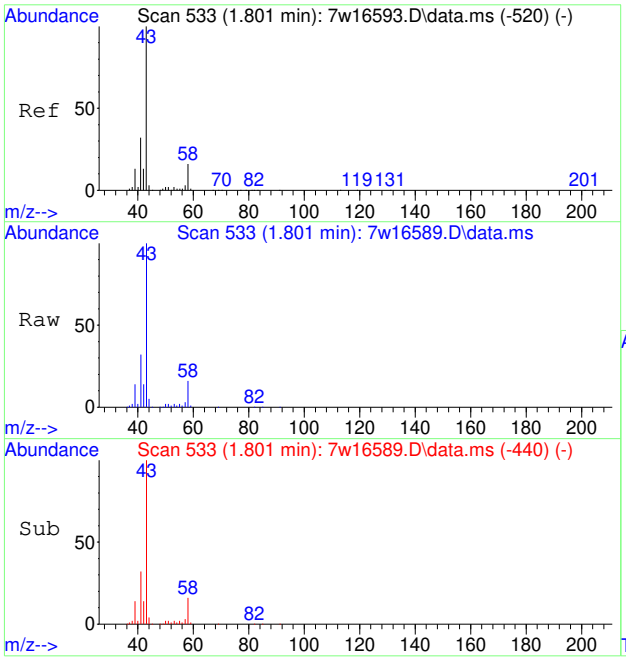


#12
1,3-BUTADIENE
Concen: 5.04 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 54 Resp: 53869

Ion	Ratio	Lower	Upper
54	100		
39	107.8	125.6	185.6#
53	71.3	40.7	100.7

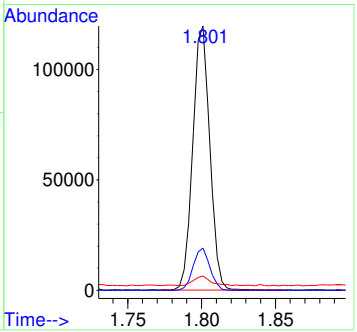


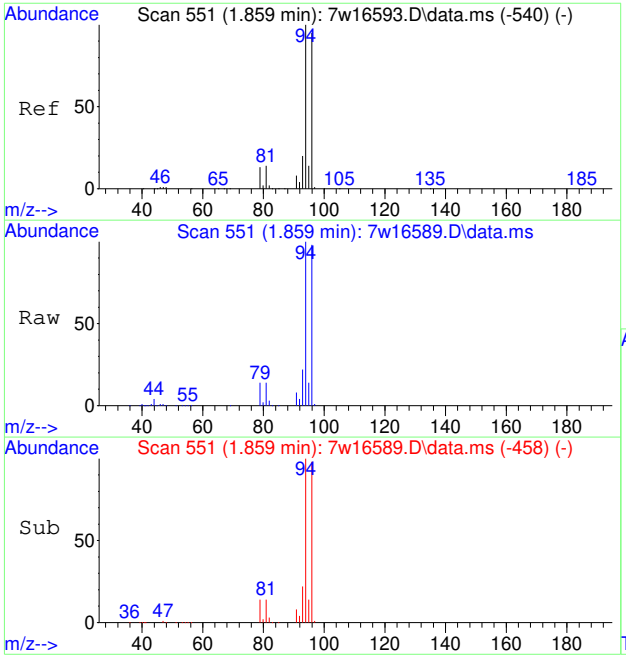


#13
N-BUTANE
Concen: 5.23 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 95908

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	4.1	3.0	5.6

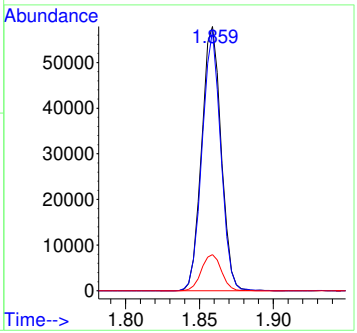


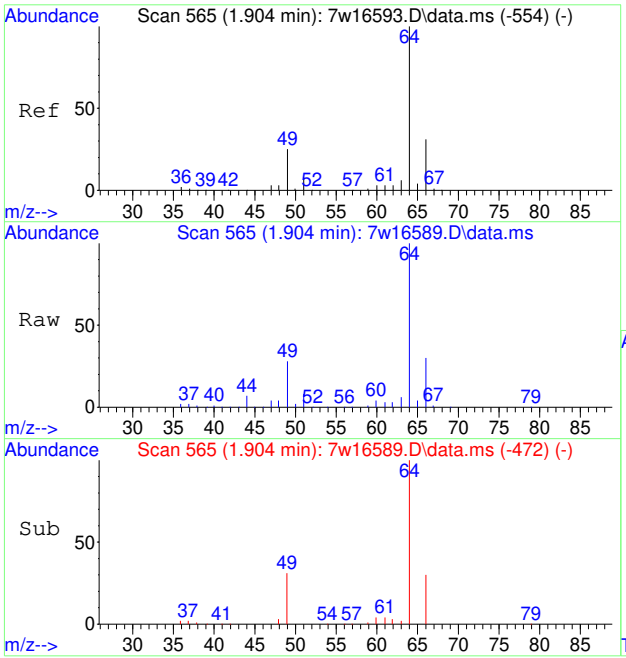


#14
BROMOMETHANE
Concen: 5.02 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 94 Resp: 52720

Ion	Ratio	Lower	Upper
94	100		
96	94.3	63.6	118.0
95	14.1	10.0	18.6

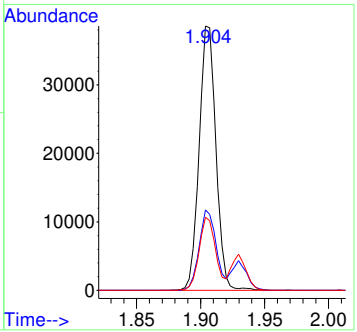


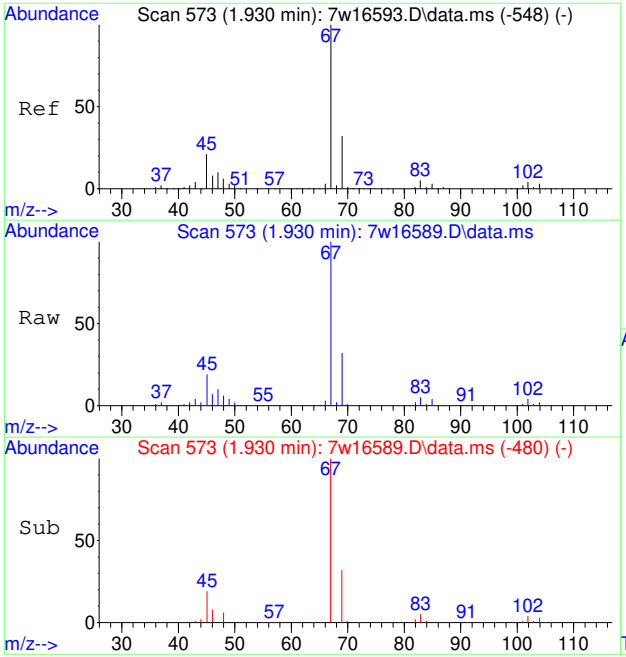


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 64 Resp: 35268

Ion	Ratio	Lower	Upper
64	100		
66	41.1	23.0	42.6
49	27.7	21.5	39.9

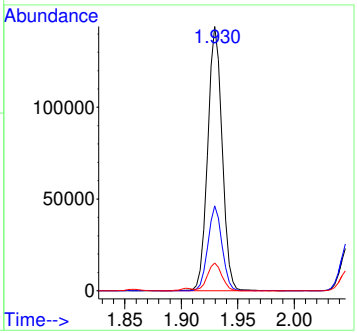


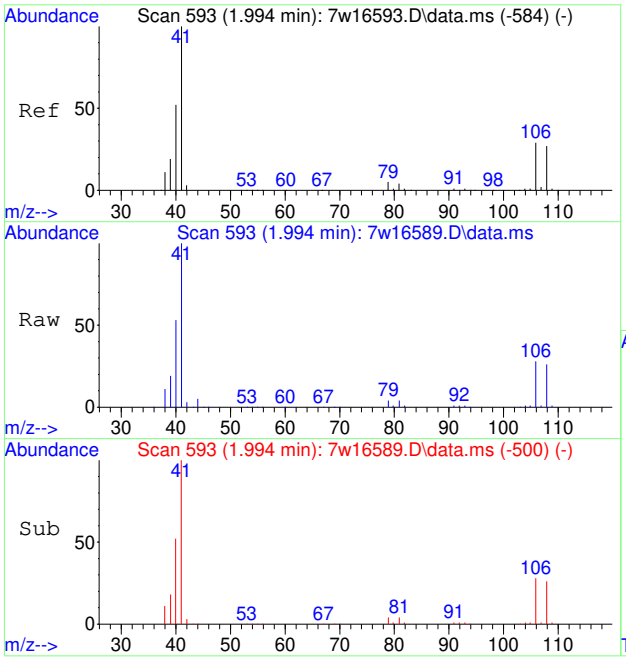


#16
DICHLOROFLUOROMETHANE
Concen: 4.88 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 127414

Ion	Ratio	Lower	Upper
67	100		
69	31.5	23.2	43.0
47	11.4	9.6	17.8

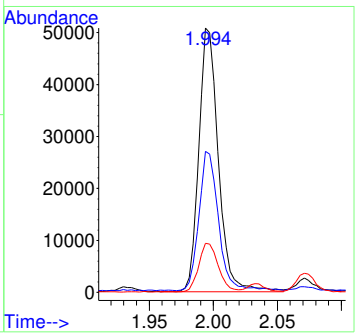


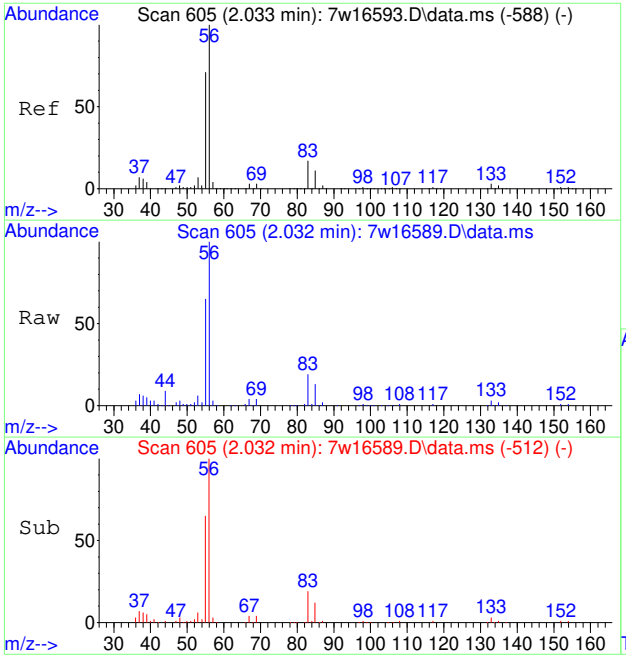


#17
ACETONITRILE
Concen: 4.71 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 54085

Ion	Ratio	Lower	Upper
41	100		
40	53.0	38.4	71.4
39	18.5	14.5	26.9

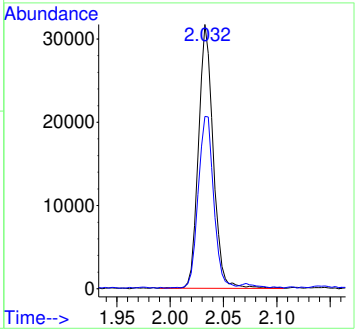


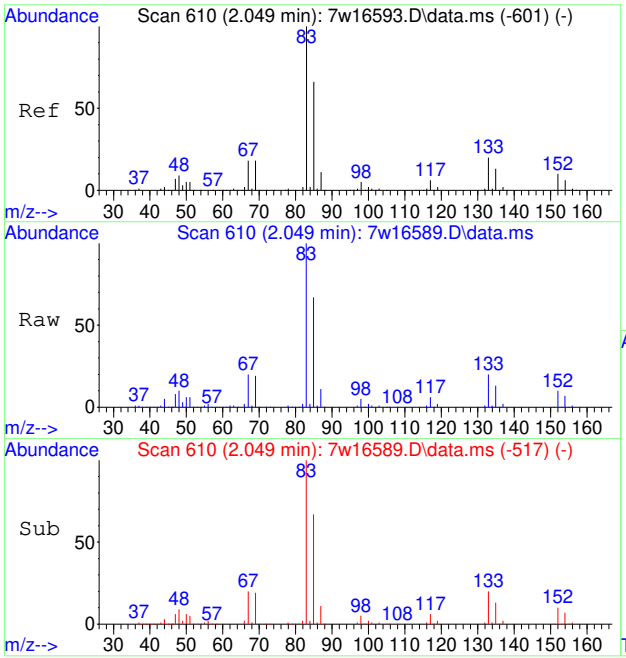


#18
ACROLEIN
Concen: 5.10 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 56 Resp: 30491

Ion	Ratio	Lower	Upper
56	100		
55	70.7	51.2	95.2

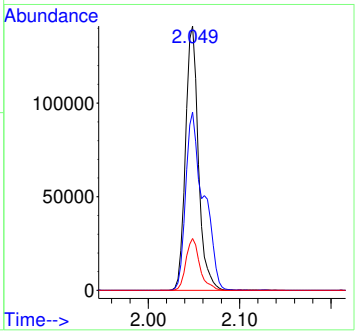


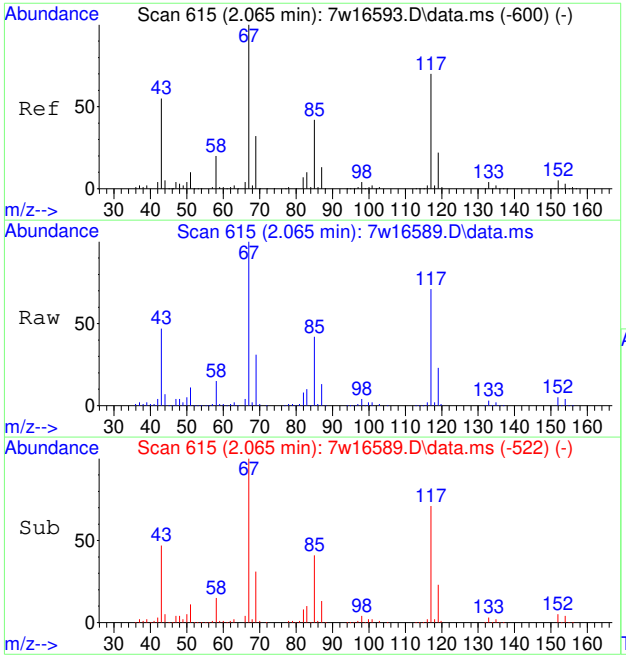


#19
FREON 123
Concen: 5.20 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 138654

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.1	19.9	36.9

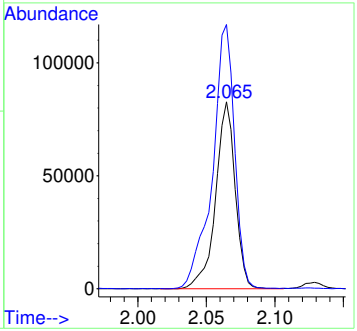


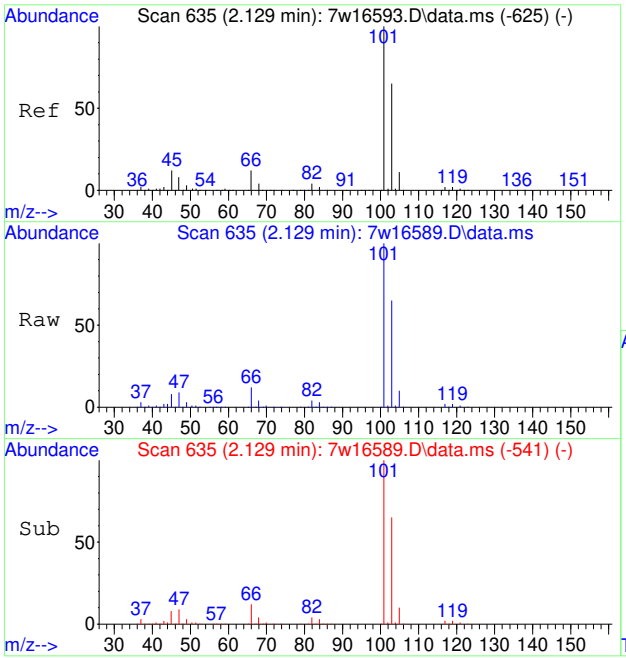


#20
FREON 123A
Concen: 5.24 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 81977

Ion	Ratio	Lower	Upper
117	100		
67	160.0	78.8	146.4#

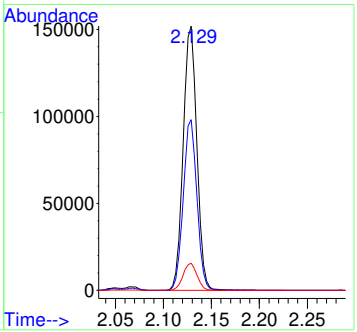


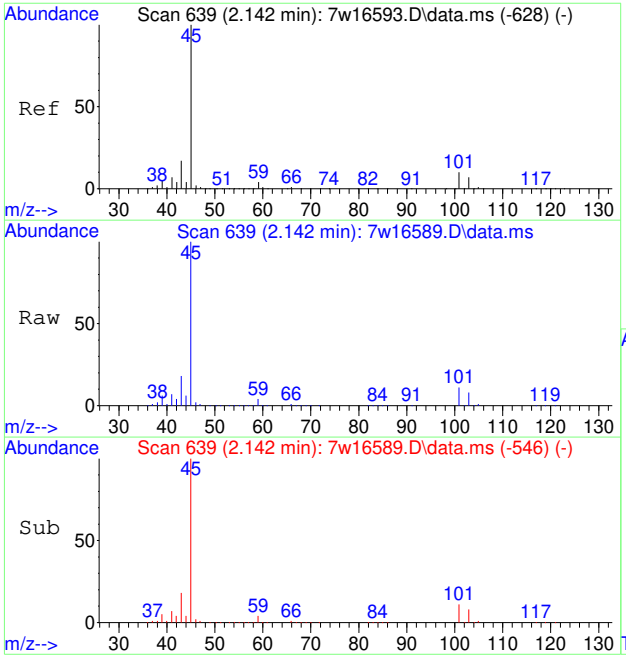


#21
TRICHLOROFLUOROMETHANE
Concen: 4.96 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:101 Resp: 150765

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.6	7.3	13.7

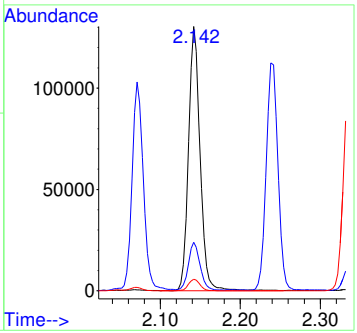


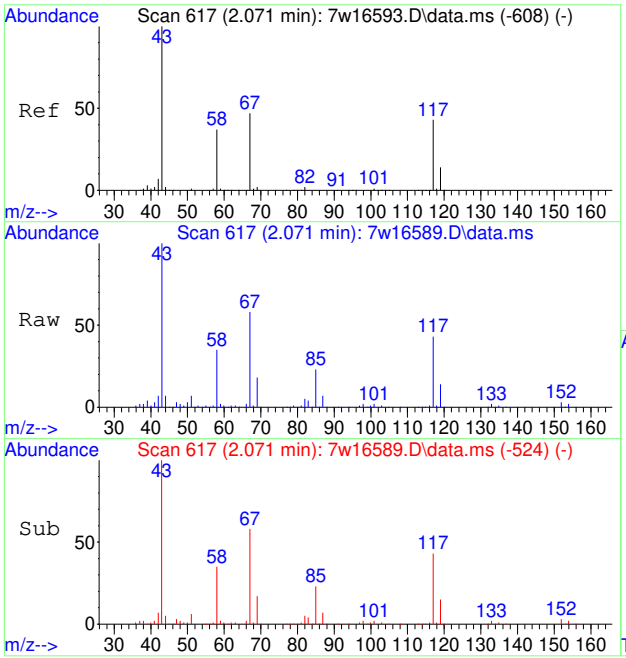


#22
ISOPROPYL ALCOHOL
Concen: 5.23 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 131851

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.4	3.1	5.8

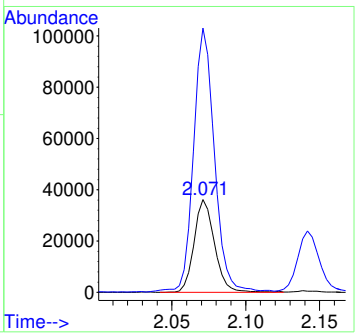


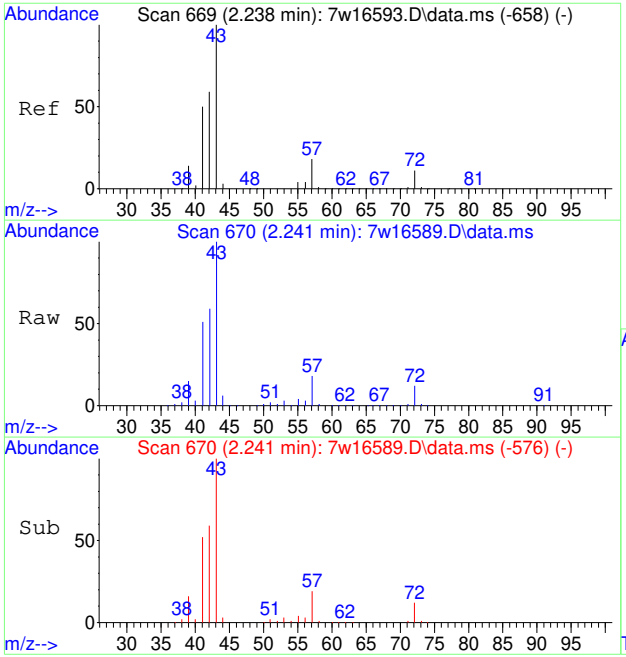


#23
ACETONE
Concen: 5.00 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 34925

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

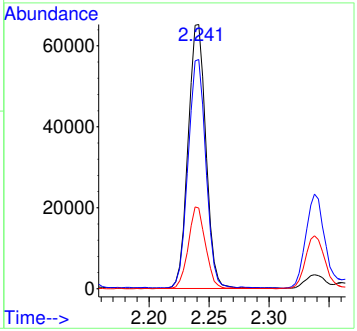


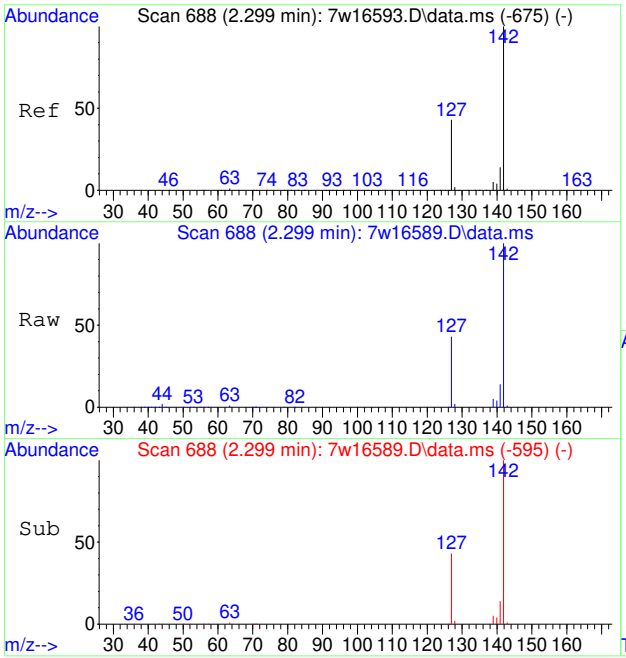


#24
PENTANE
Concen: 5.17 PPBV
RT: 2.241 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 42 Resp: 67328

Ion	Ratio	Lower	Upper
42	100		
41	86.9	69.2	128.6
57	30.5	18.6	34.6

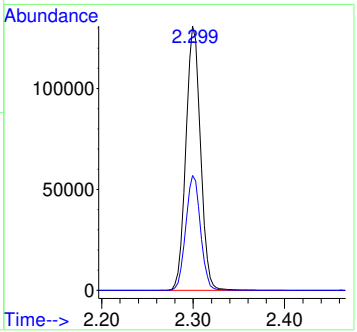


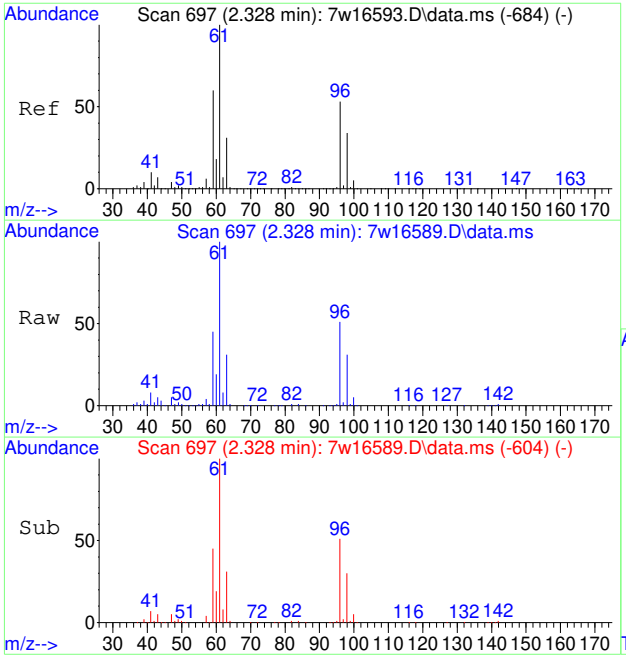


#25
IODOMETHANE
Concen: 5.22 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:142 Resp: 145418

Ion	Ratio	Lower	Upper
142	100		
127	43.8	32.1	59.7

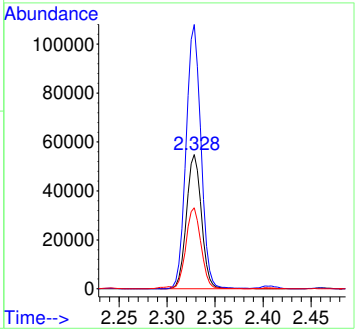


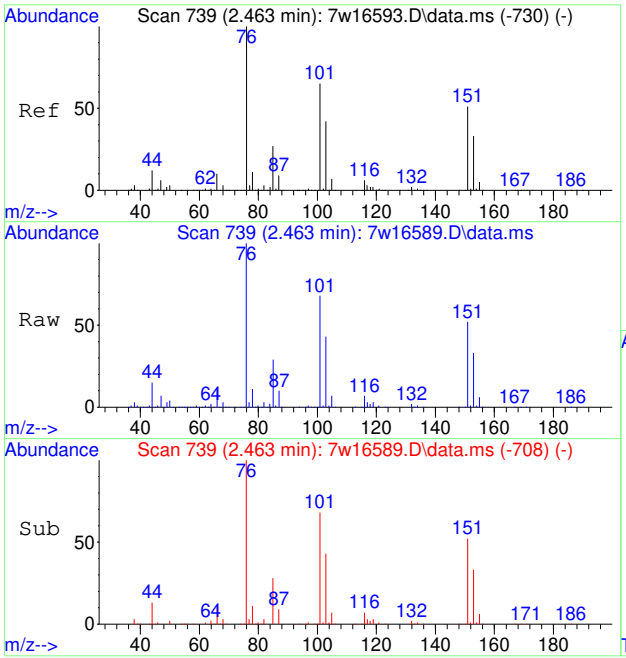


#26
1,1-DICHLOROETHYLENE
Concen: 5.29 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 59691

Ion	Ratio	Lower	Upper
96	100		
61	195.1	98.3	182.5#
63	61.9	33.2	61.7#

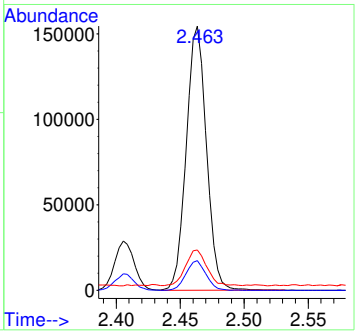


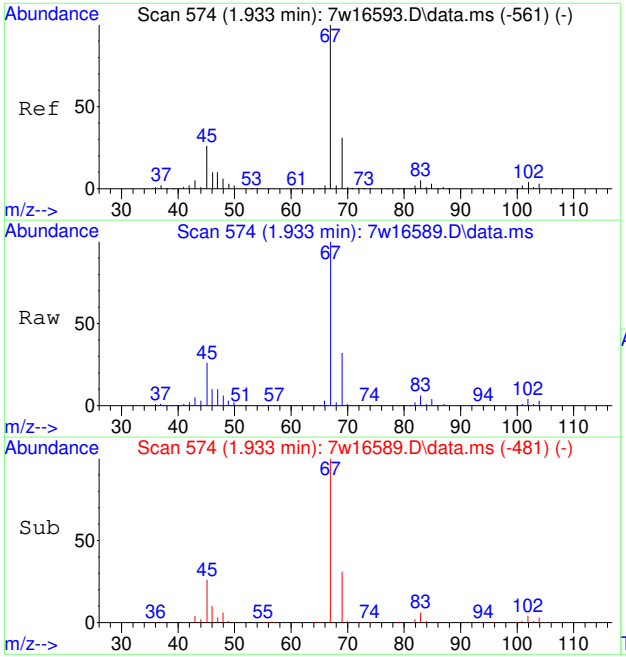


#27
CARBON DISULFIDE
Concen: 5.18 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 169676

Ion	Ratio	Lower	Upper
76	100		
78	11.2	8.3	15.3
44	14.4	13.0	24.1

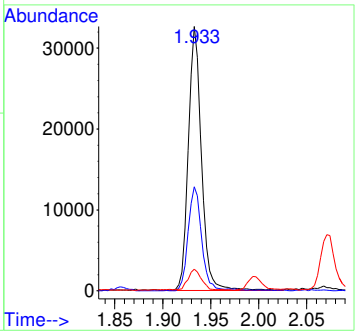


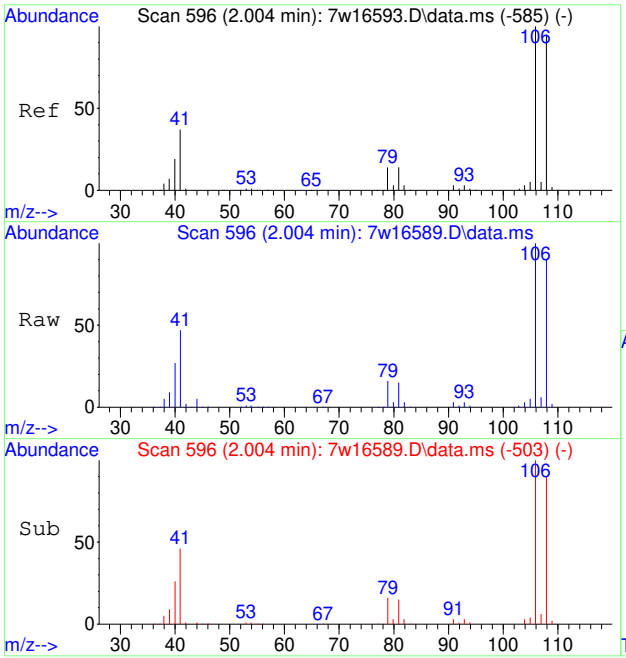


#28
ETHANOL
Concen: 4.82 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 31099

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.7	55.1
42	9.0	7.3	13.5

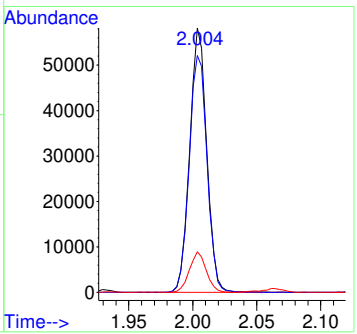


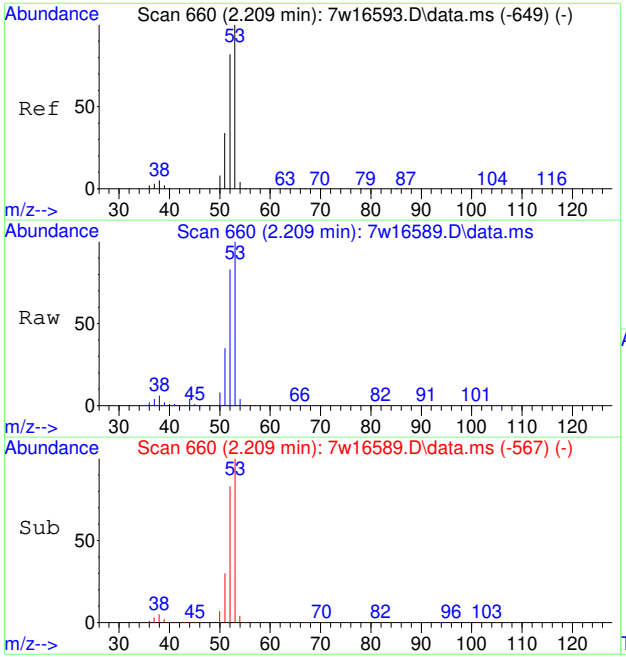


#29
BROMOETHENE
Concen: 4.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:106 Resp: 53853

Ion	Ratio	Lower	Upper
106	100		
108	93.9	68.3	126.8
81	15.2	14.7	27.3

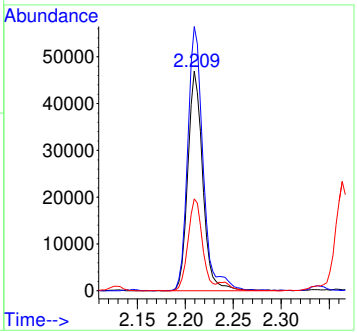


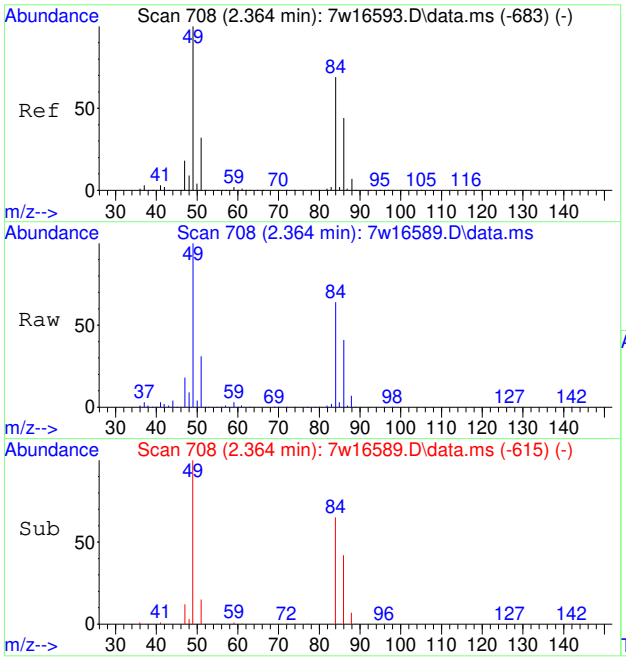


#30
ACRYLONITRILE
Concen: 5.27 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 50954

Ion	Ratio	Lower	Upper
52	100		
53	124.0	86.3	160.3
51	44.3	33.6	62.4

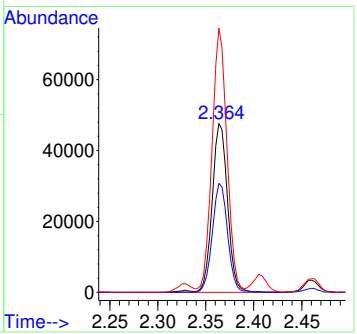


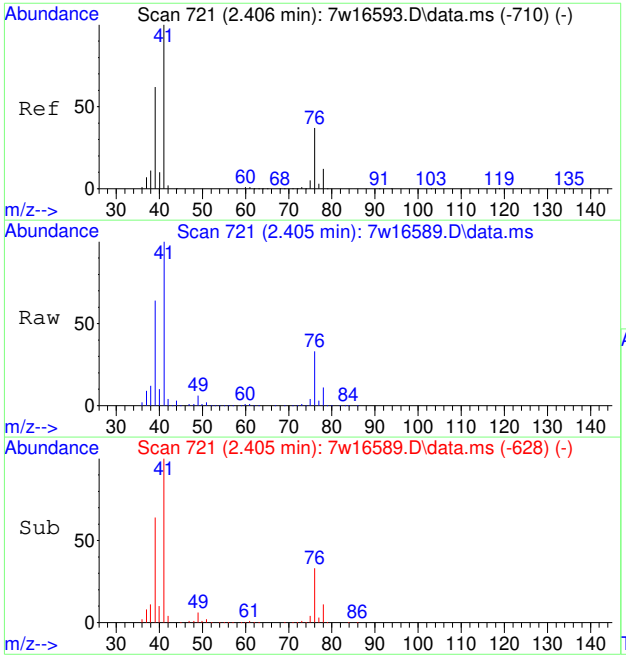


#31
METHYLENE CHLORIDE
Concen: 5.00 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 53489

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.9	83.5
49	151.5	79.7	148.1#

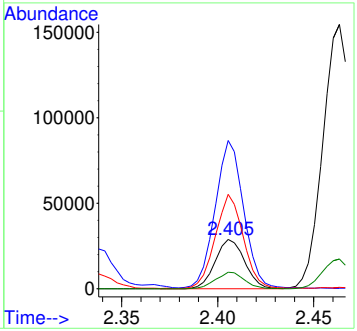


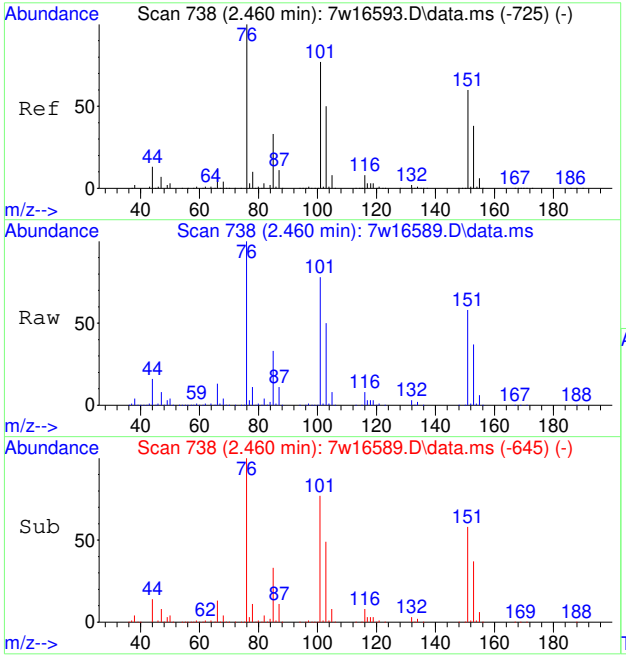


#32
3-CHLOROPROPENE
Concen: 5.04 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 30822

Ion	Ratio	Lower	Upper
76	100		
41	292.3	160.9	298.9
39	181.9	150.7	279.9
78	33.1	22.7	42.1

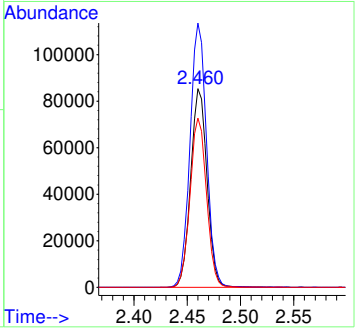


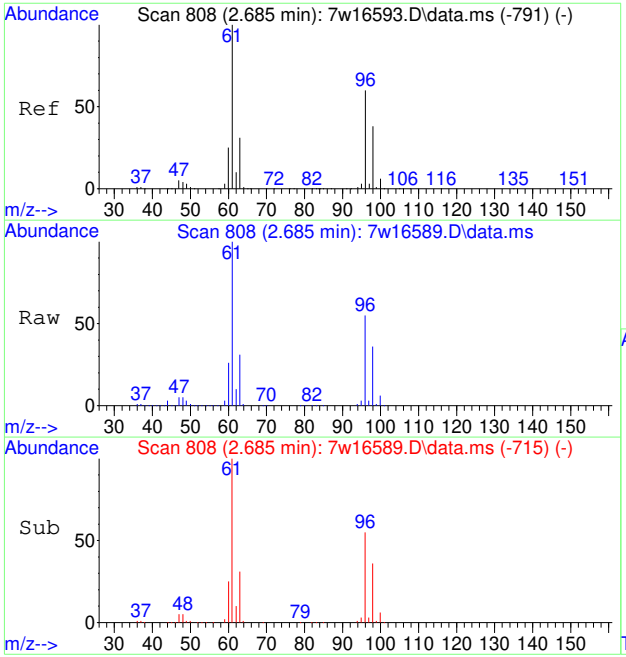


#33
FREON 113
Concen: 5.19 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:151 Resp: 91200

Ion	Ratio	Lower	Upper
151	100		
101	134.2	81.1	150.7
103	85.8	51.4	95.4

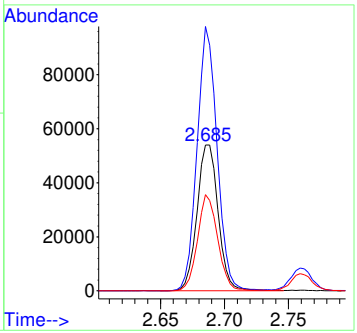


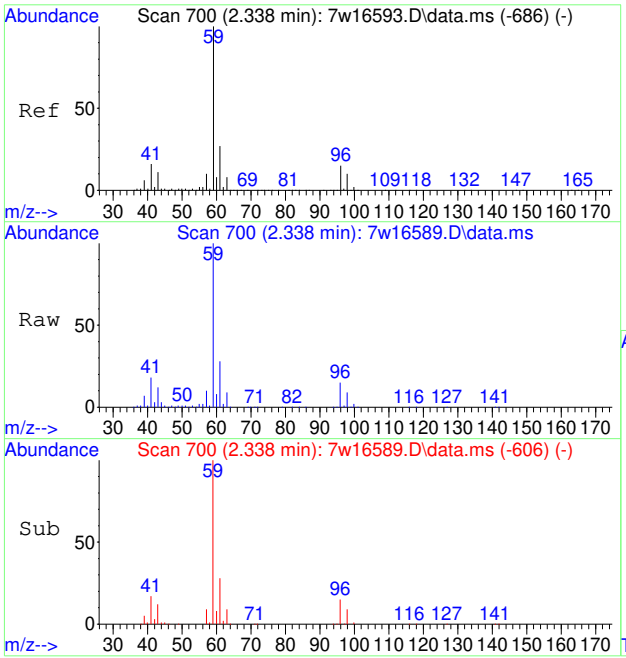


#34
TRANS-1,2-DICHLOROETHENE
Concen: 5.00 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 62237

Ion	Ratio	Lower	Upper
96	100		
61	171.0	78.5	145.9#
98	63.0	46.5	86.3

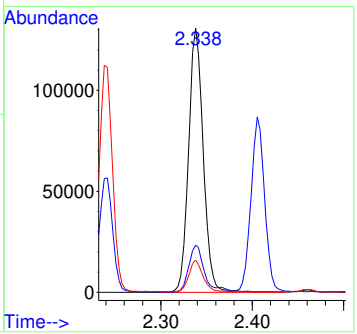


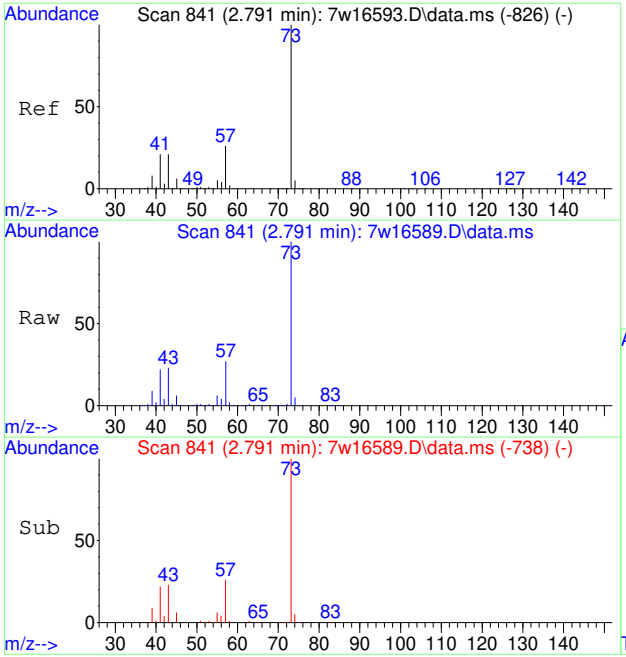


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.75 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 146023

Ion	Ratio	Lower	Upper
59	100		
41	18.7	15.3	28.5
43	11.5	12.3	22.9#

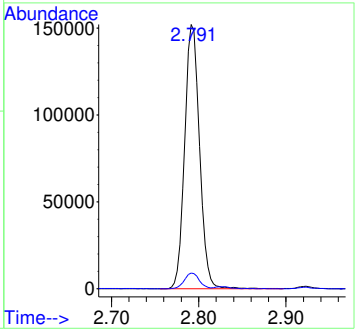


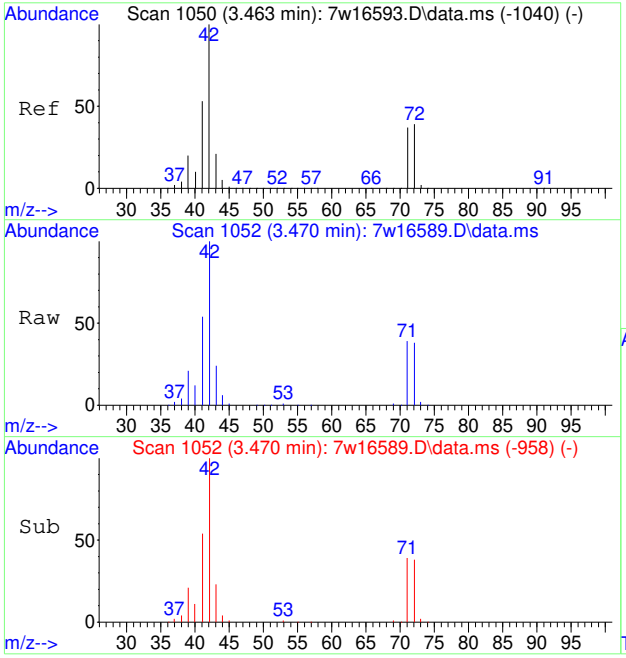


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.12 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 73 Resp: 180915

Ion	Ratio	Lower	Upper
73	100		
45	5.9	3.4	6.4

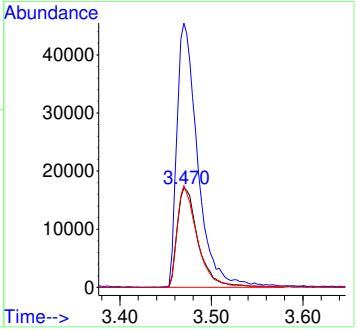


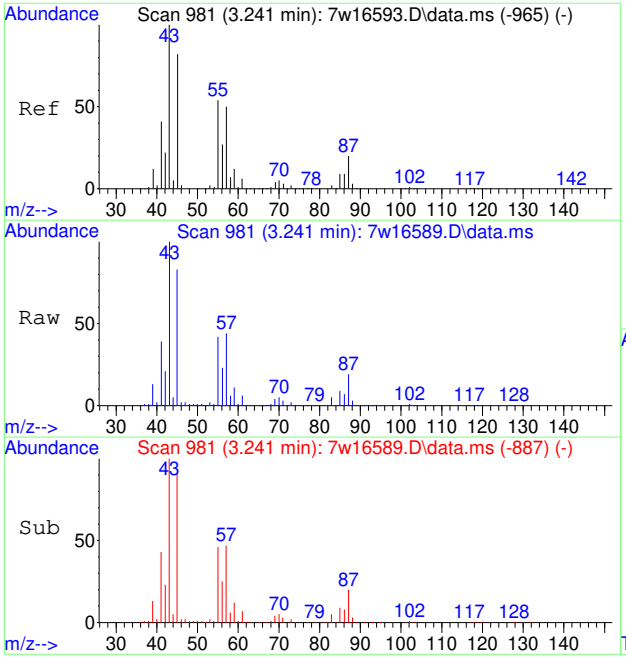


#37
TETRAHYDROFURAN
Concen: 4.64 PPBV
RT: 3.470 min Scan# 1052
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 27419

Ion	Ratio	Lower	Upper
72	100		
42	267.5	153.0	284.2
71	97.0	62.7	116.5

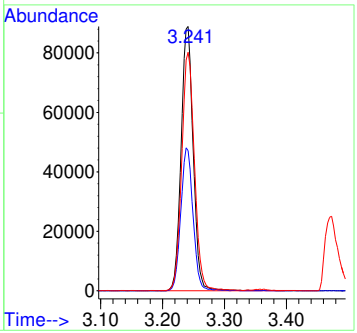


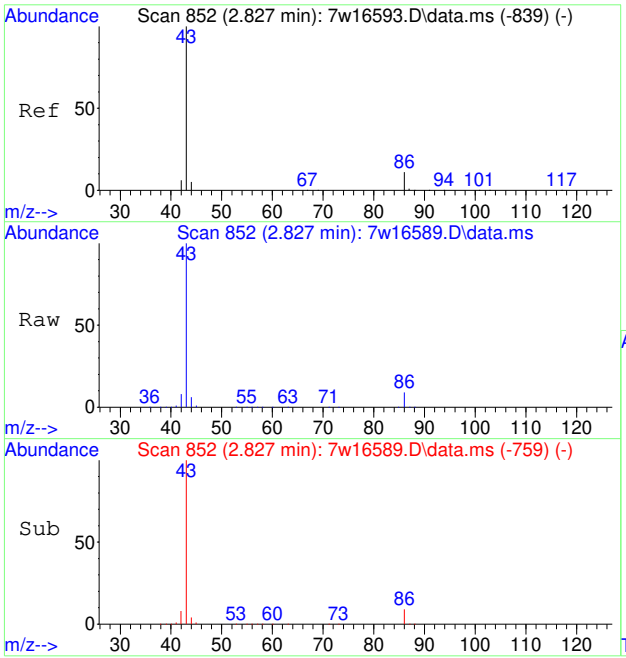


#38
HEXANE
Concen: 5.18 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 121135

Ion	Ratio	Lower	Upper
57	100		
56	54.5	37.3	69.3
41	95.1	86.7	161.1

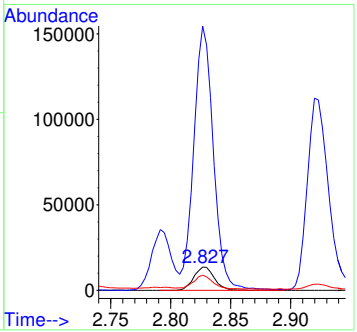


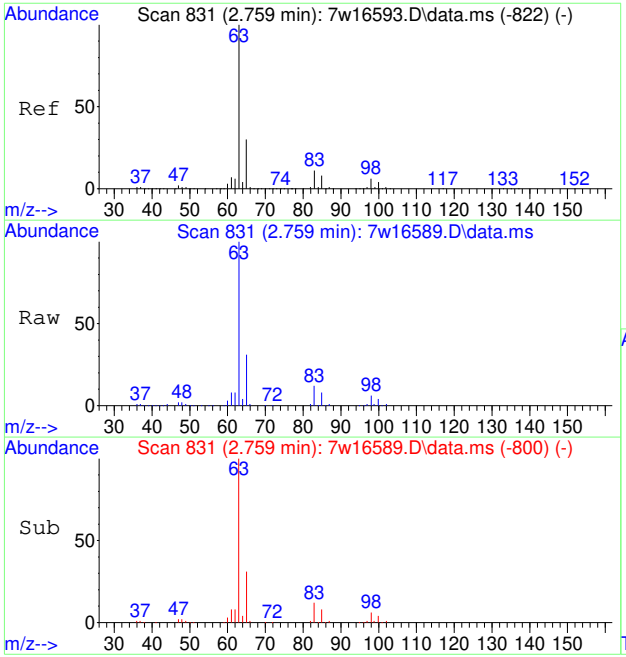


#39
VINYL ACETATE
Concen: 4.75 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 86 Resp: 16334

Ion	Ratio	Lower	Upper
86	100		
43	1085.5	667.9	1240.3
44	60.0	32.7	60.7

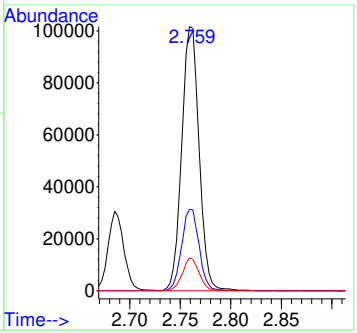


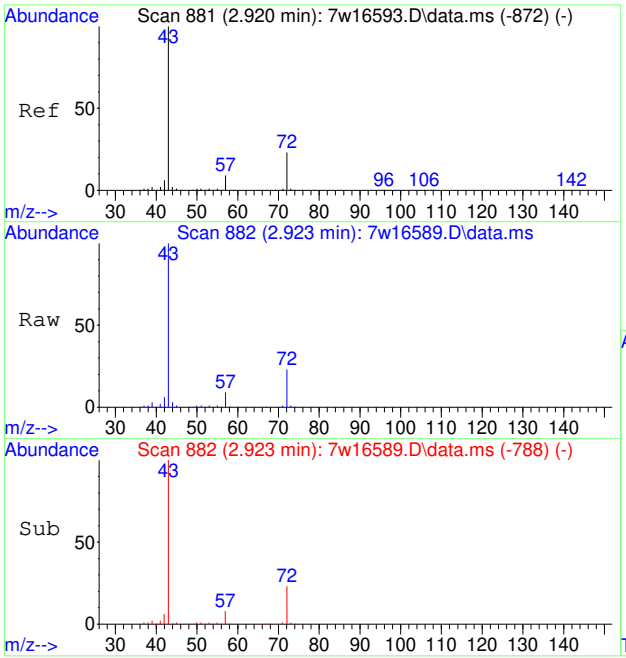


#40
1,1-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 121863

Ion	Ratio	Lower	Upper
63	100		
65	31.1	21.8	40.6
83	12.0	10.6	19.6

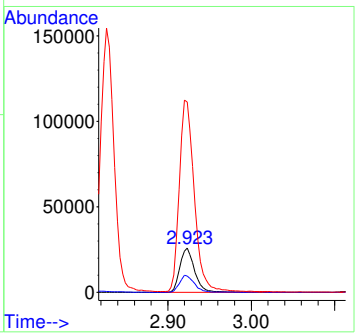


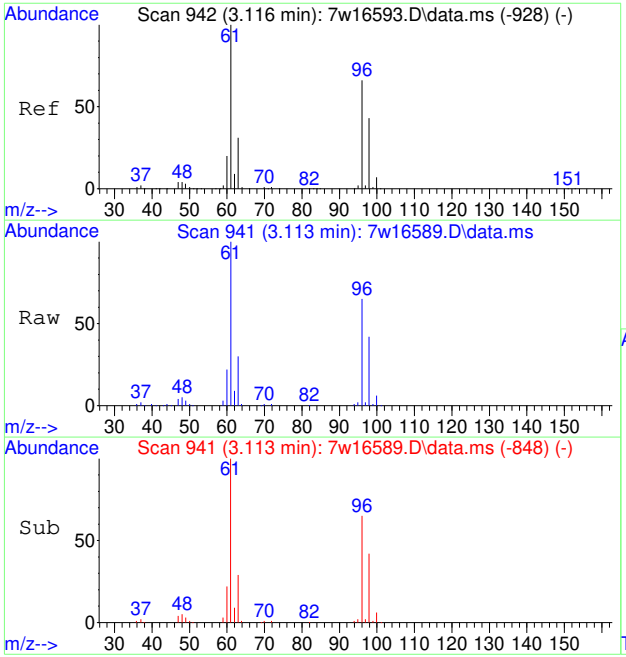


#41
METHYL ETHYL KETONE
Concen: 5.07 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 31986

Ion	Ratio	Lower	Upper
72	100		
57	39.2	20.3	37.7#
43	443.0	282.8	525.2

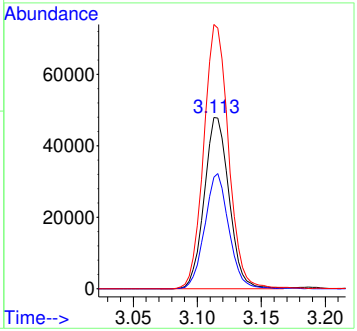


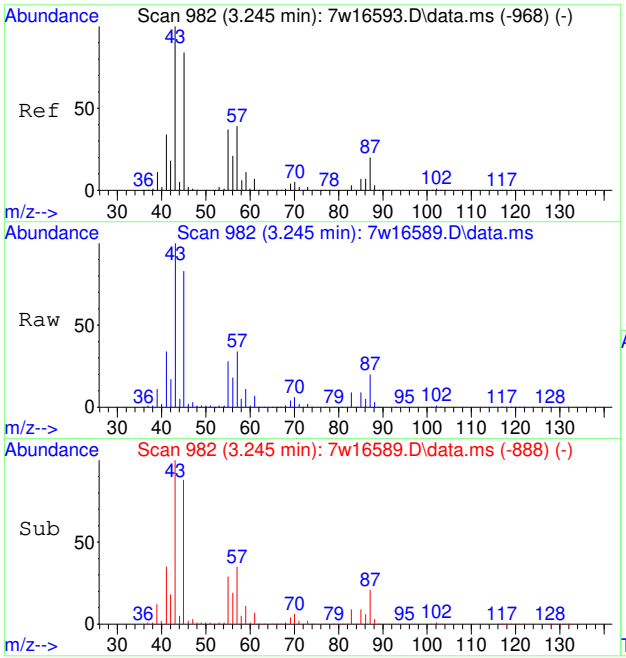


#42
CIS-1,2-DICHLOROETHENE
Concen: 5.01 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 64888

Ion	Ratio	Lower	Upper
96	100		
98	65.5	46.8	86.8
61	154.3	78.3	145.5#

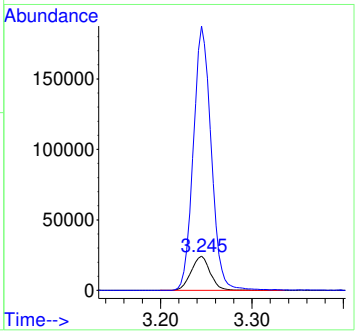


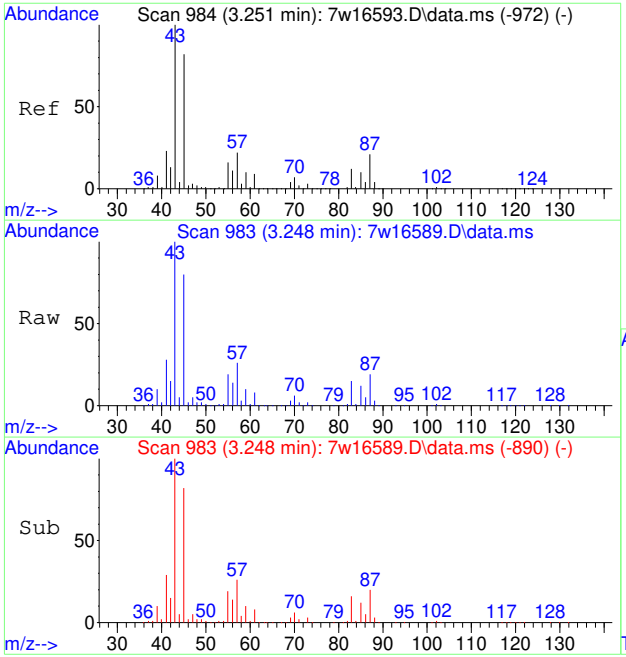


#43
DIISOPROPYL ETHER
Concen: 5.24 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 35230

Ion	Ratio	Lower	Upper
59	100		
45	724.5	532.1	988.1

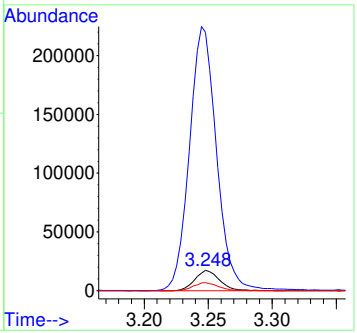


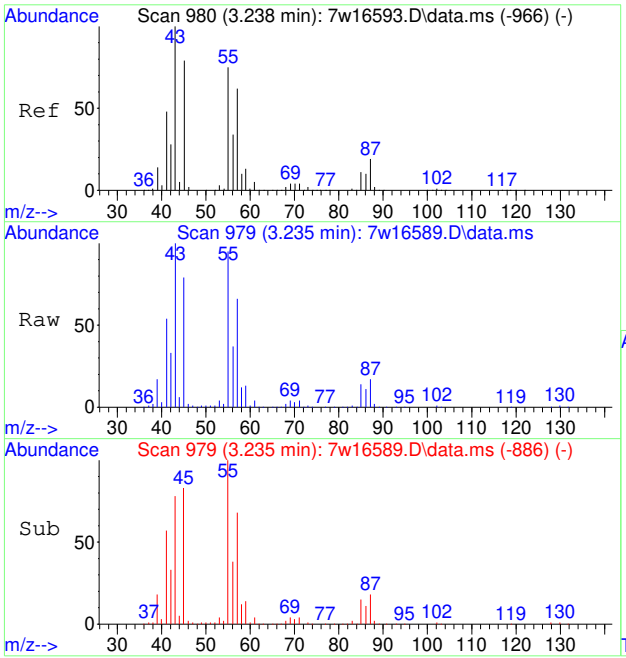


#44
ETHYL ACETATE
Concen: 4.98 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 61 Resp: 23700

Ion	Ratio	Lower	Upper
61	100		
43	1408.7	1127.5	2093.9
88	40.8	36.2	67.2

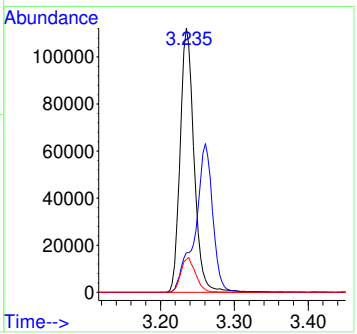


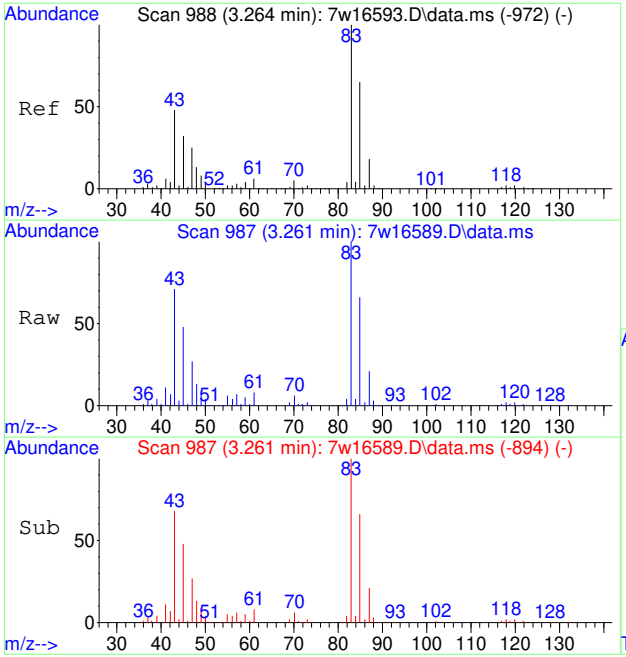


#45
METHYL ACRYLATE
Concen: 5.10 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 147700

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

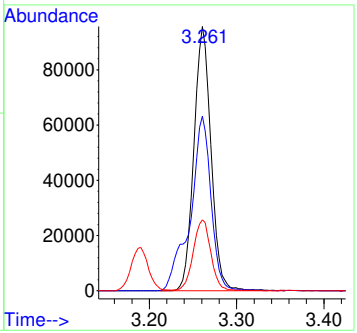


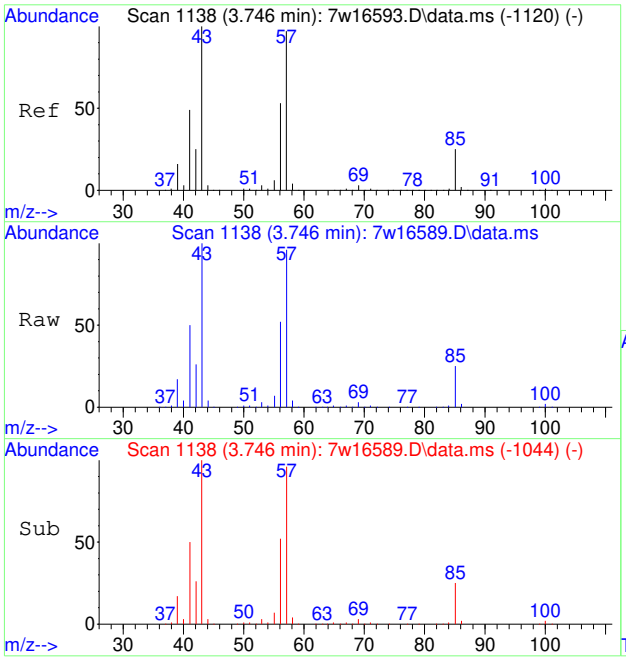


#46
CHLOROFORM
Concen: 5.10 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 130788

Ion	Ratio	Lower	Upper
83	100		
85	80.1	54.6	101.4
47	27.9	17.9	33.3

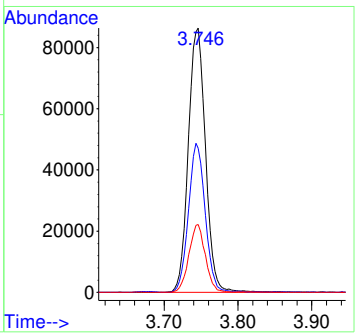


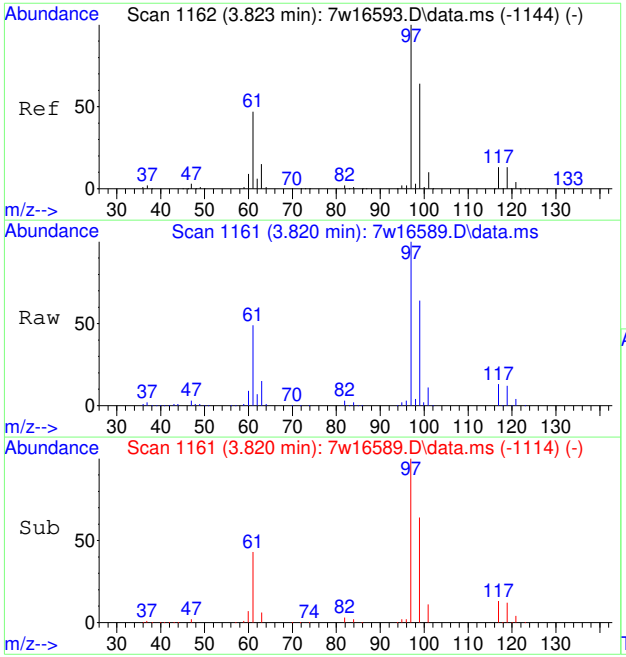


#47
2,4-DIMETHYLPENTANE
Concen: 5.24 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 139904

Ion	Ratio	Lower	Upper
57	100		
56	55.4	39.2	72.8
85	24.6	24.1	44.7

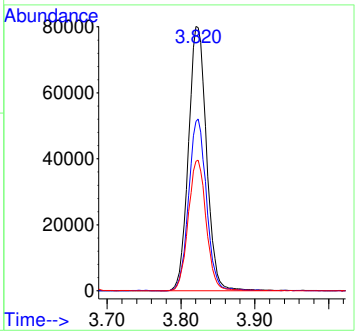


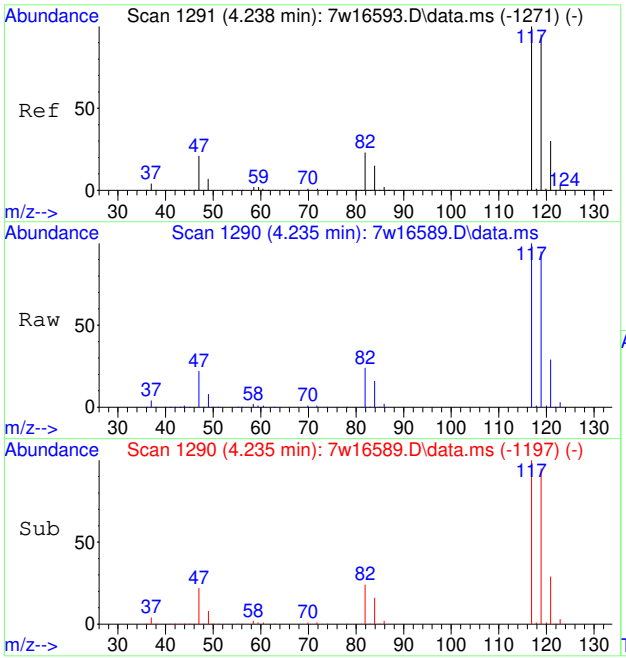


#48
1,1,1-TRICHLOROETHANE
Concen: 5.09 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 97 Resp: 135968

Ion	Ratio	Lower	Upper
97	100		
99	64.1	44.9	83.5
61	49.4	28.6	53.0

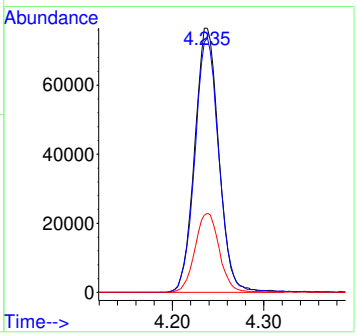


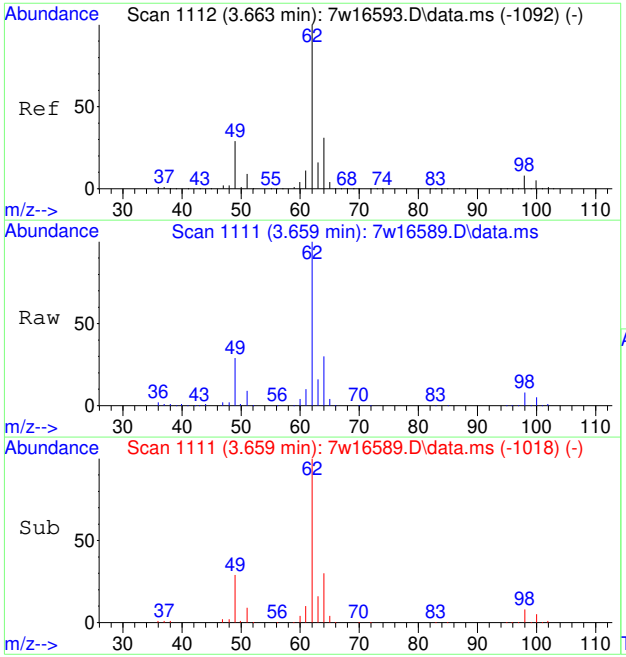


#49
CARBON TETRACHLORIDE
Concen: 4.91 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 140153

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

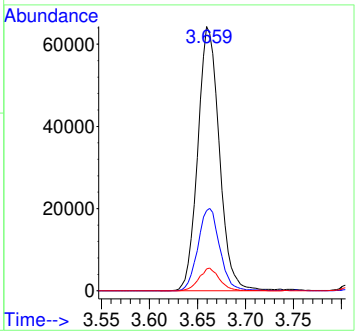


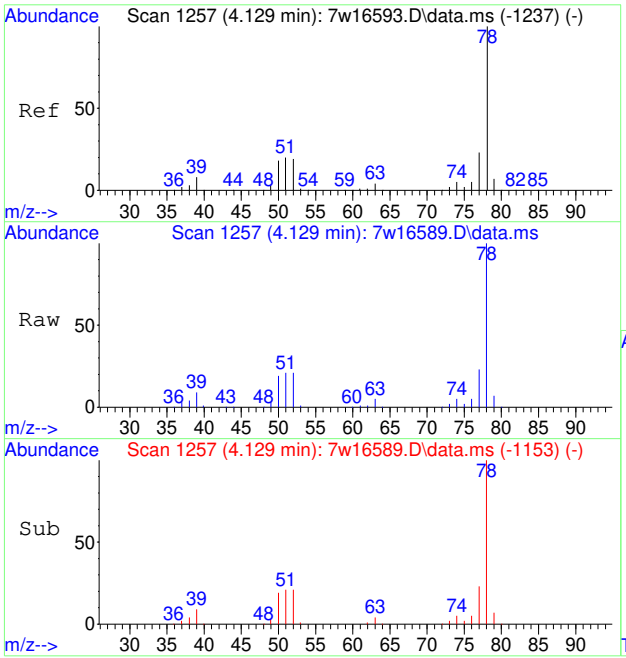


#50
1,2-DICHLOROETHANE
Concen: 5.00 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 100577

Ion	Ratio	Lower	Upper
62	100		
64	31.6	22.5	41.7
98	8.2	6.8	12.6

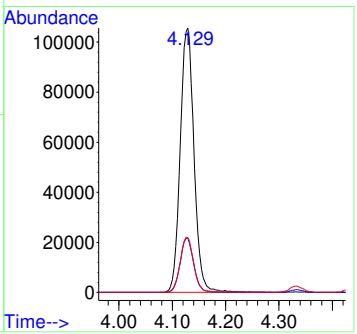


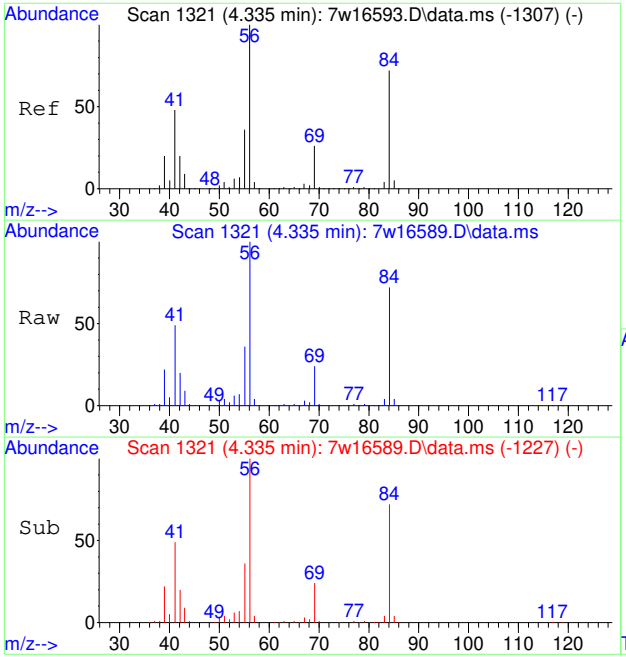


#51
BENZENE
Concen: 5.07 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 78 Resp: 190147

Ion	Ratio	Lower	Upper
78	100		
52	20.1	0.0	44.6
51	20.6	0.0	47.3

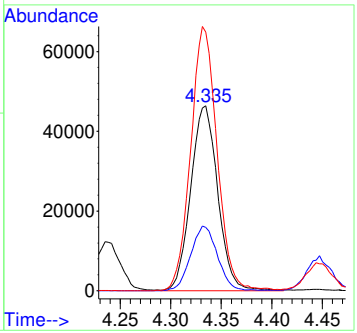


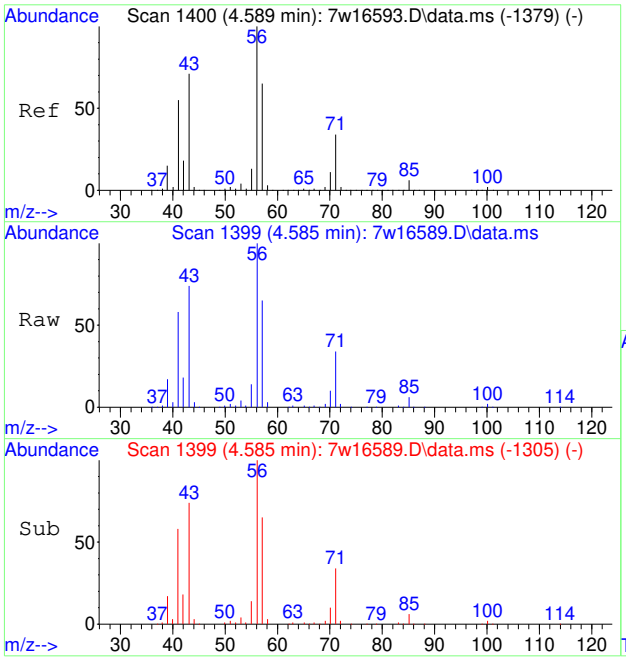


#53
CYCLOHEXANE
Concen: 5.03 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 86740

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	139.2	70.2	130.4#

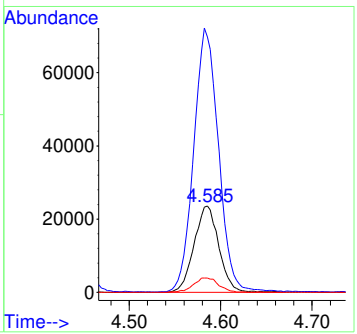


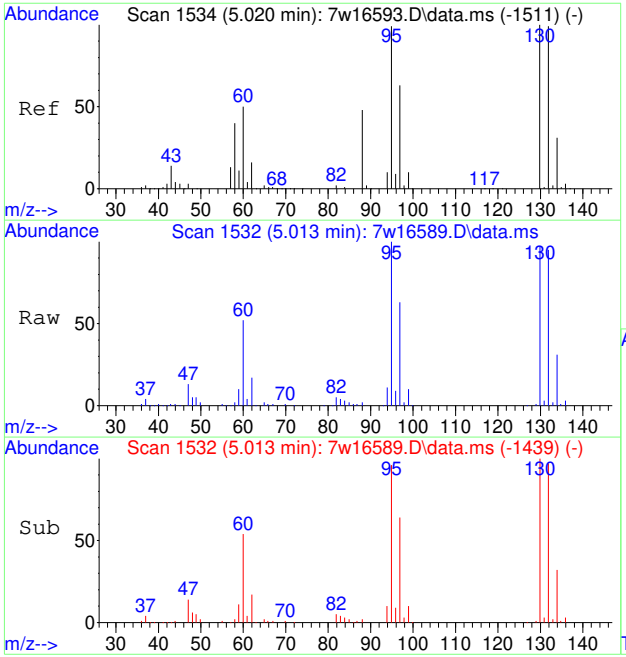


#54
2,3-DIMETHYLPENTANE
Concen: 5.09 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 71 Resp: 44676

Ion	Ratio	Lower	Upper
71	100		
56	304.2	171.4	318.4
85	17.1	12.6	23.4

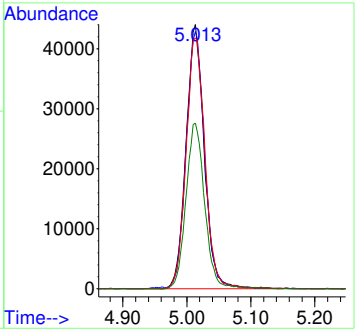


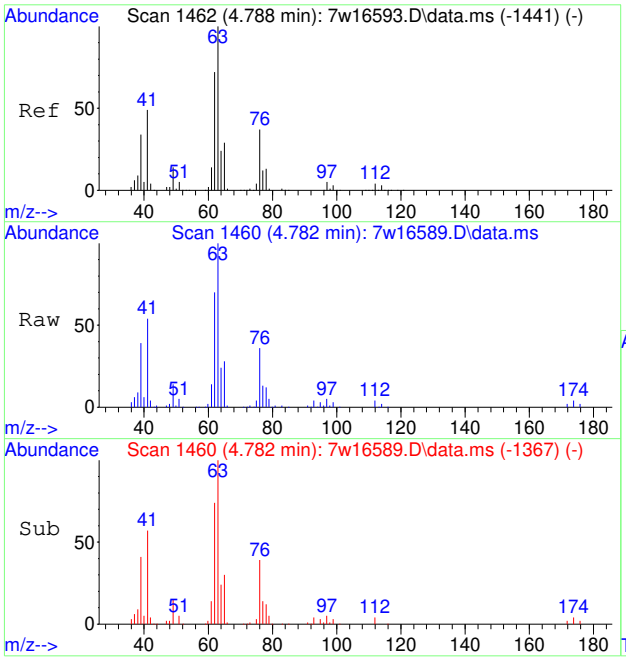


#55
TRICHLOROETHENE
Concen: 4.76 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 95 Resp: 87453

Ion	Ratio	Lower	Upper
95	100		
130	99.4	85.9	159.5
132	98.4	79.4	147.4
97	63.7	45.0	83.6

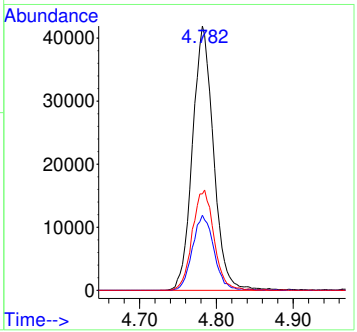


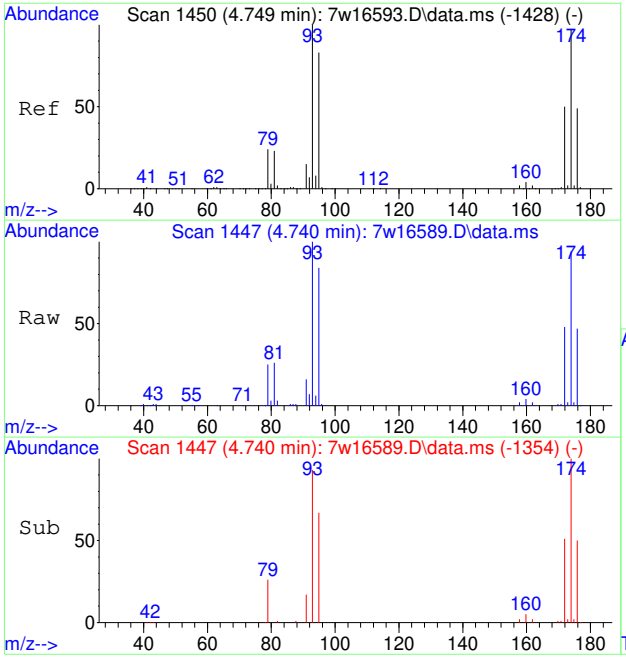


#56
1,2-DICHLOROPROPANE
Concen: 4.94 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 79932

Ion	Ratio	Lower	Upper
63	100		
65	29.2	22.6	42.0
76	39.2	31.8	59.0

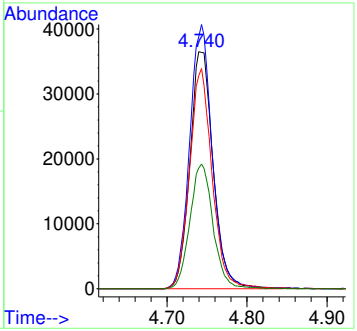


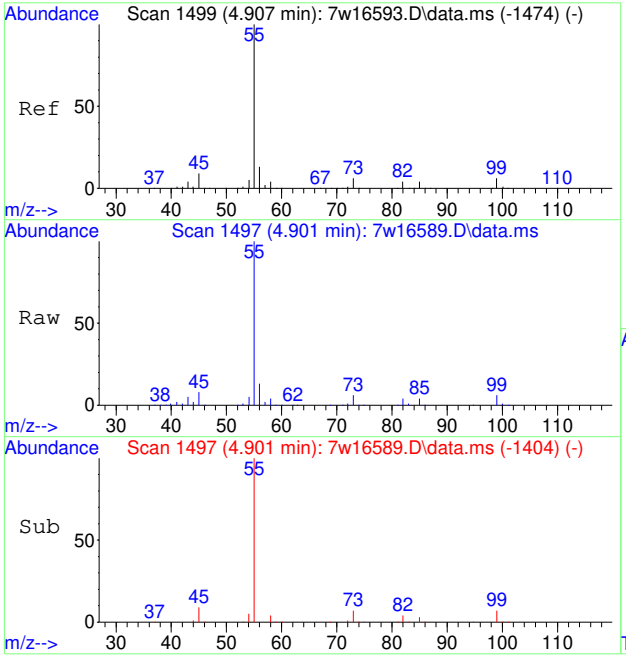


#57
DIBROMOMETHANE
Concen: 4.94 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:174 Resp: 74130

Ion	Ratio	Lower	Upper
174	100		
93	109.1	67.3	125.1
95	90.0	56.8	105.6
172	52.3	36.3	67.5

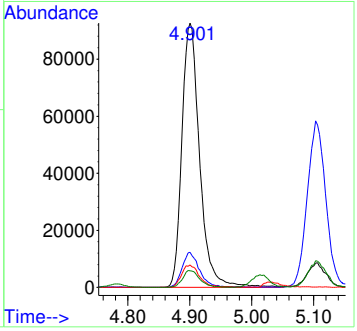


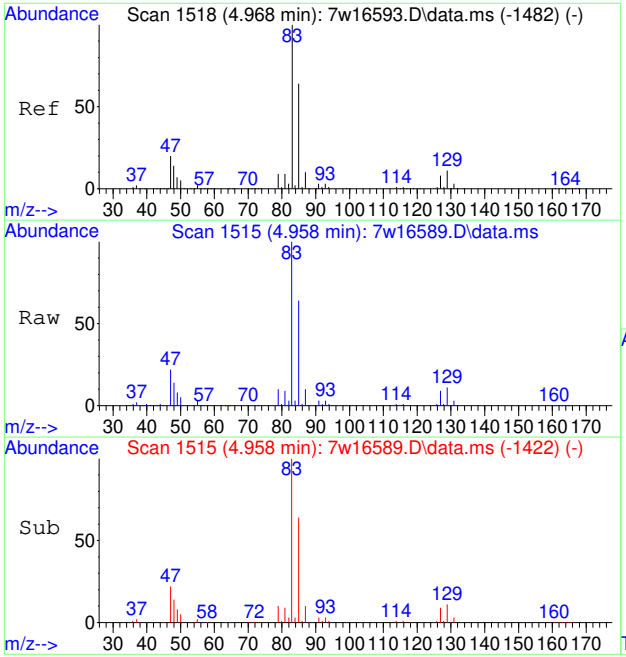


#58
ETHYL ACRYLATE
Concen: 5.03 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 184653

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.8	6.6	12.2
99	6.2	6.2	11.6#

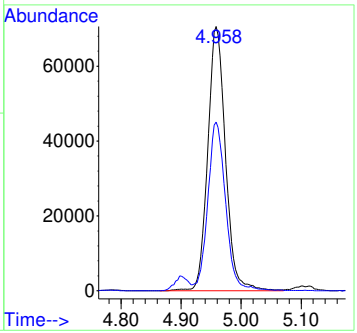


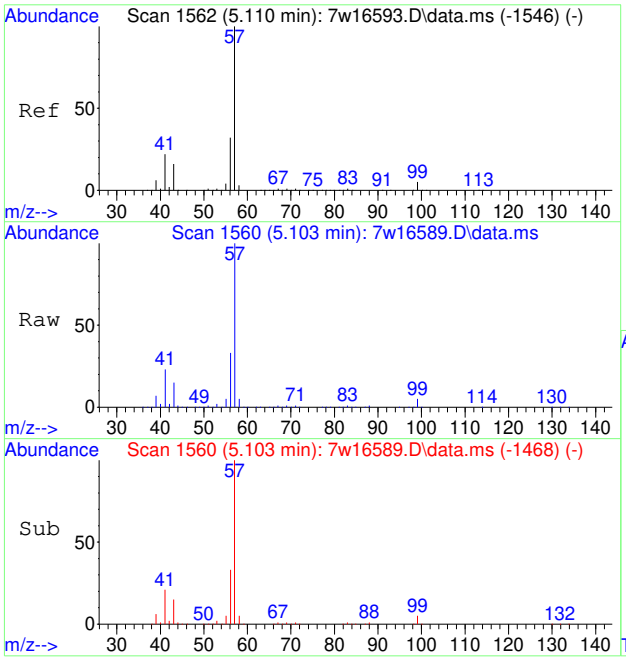


#59
BROMODICHLOROMETHANE
Concen: 4.78 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 145254

Ion	Ratio	Lower	Upper
83	100		
85	64.4	44.9	83.5

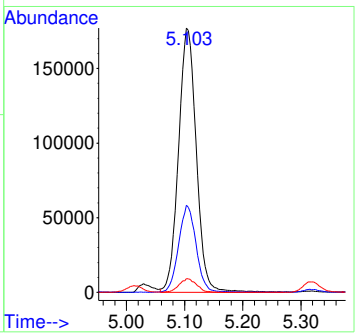


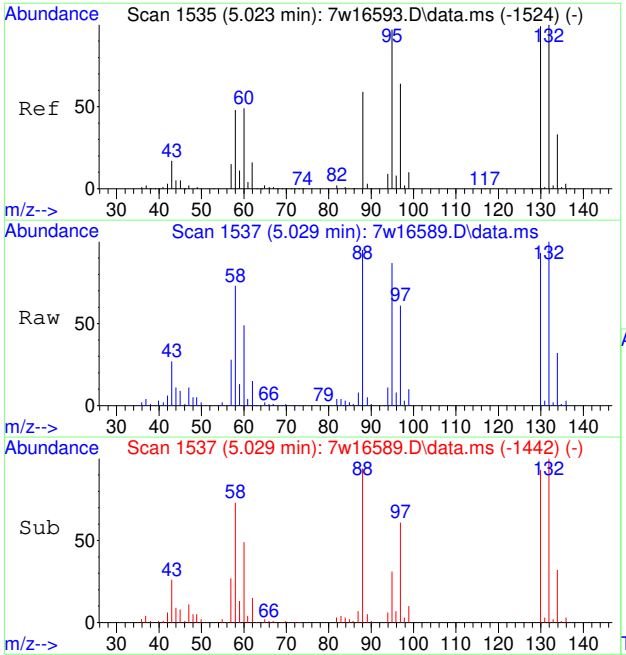


#60
2,2,4-TRIMETHYLPENTANE
Concen: 4.91 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 376202

Ion	Ratio	Lower	Upper
57	100		
56	32.4	24.4	45.2
99	5.1	5.2	9.6#

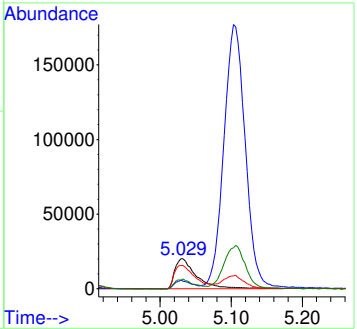


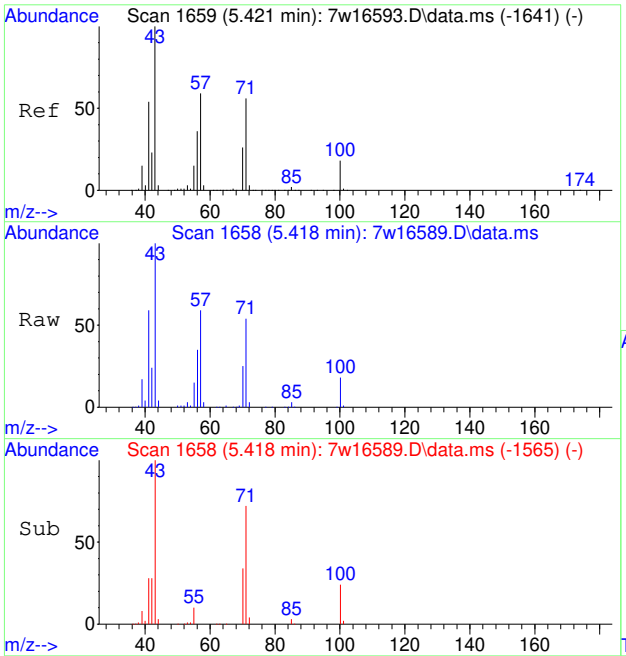


#61
1,4-DIOXANE
Concen: 4.76 PPBV
RT: 5.029 min Scan# 1537
Delta R.T. 0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 88 Resp: 43182

Ion	Ratio	Lower	Upper
88	100		
57	22.6	13.1	24.3
58	75.6	39.1	72.5#
43	27.0	18.3	33.9

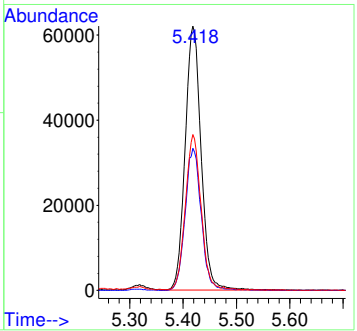


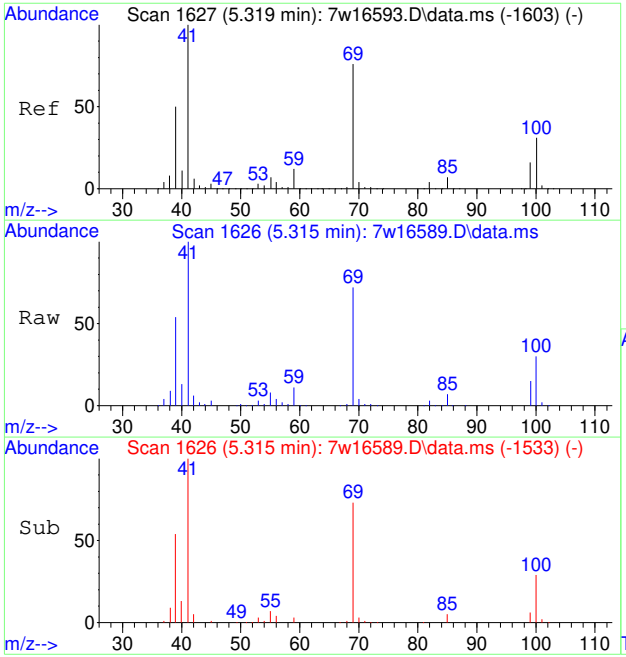


#62
HEPTANE
Concen: 5.06 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 129447

Ion	Ratio	Lower	Upper
43	100		
71	54.3	45.0	83.6
57	58.0	37.2	69.0

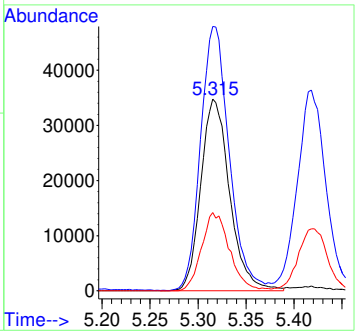


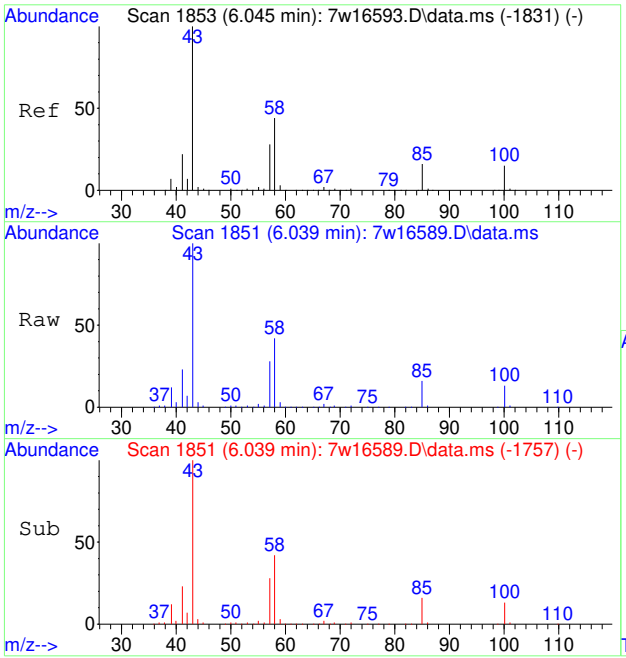


#63
METHYL METHACRYLATE
Concen: 4.95 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 72765

Ion	Ratio	Lower	Upper
69	100		
41	136.6	84.3	156.5
100	39.7	30.8	57.2

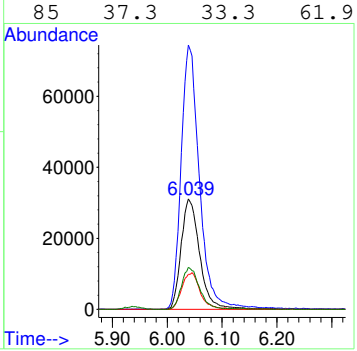


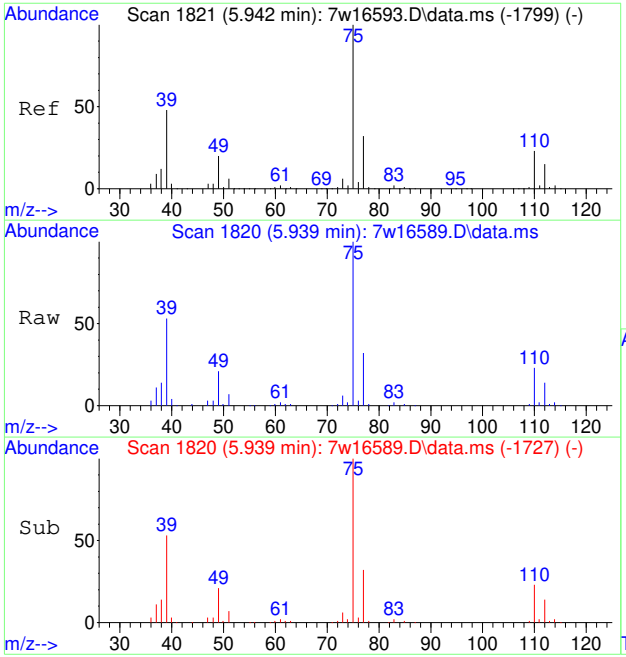


#64
METHYL ISOBUTYL KETONE
Concen: 4.88 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 73624

Ion	Ratio	Lower	Upper
58	100		
43	236.1	193.8	360.0
100	33.1	32.8	60.8
85	37.3	33.3	61.9

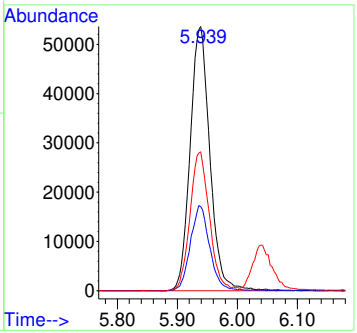


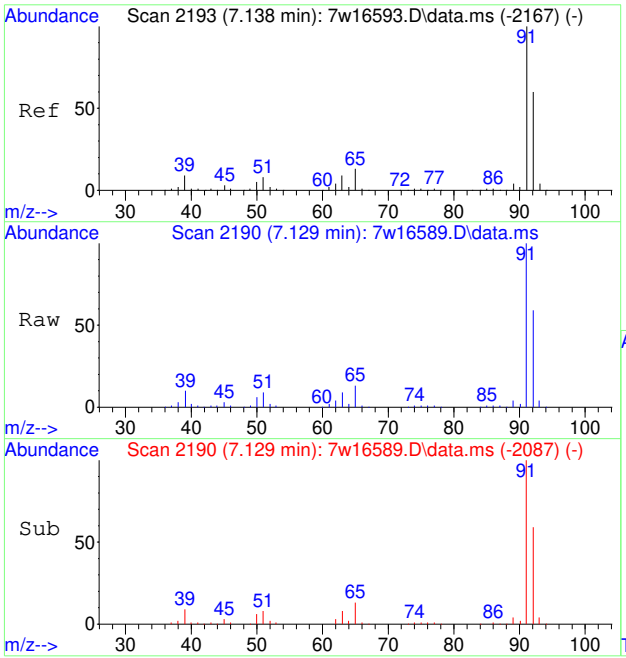


#65
CIS-1,3-DICHLOROPROPENE
Concen: 4.78 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 122774

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.8	38.5	71.5

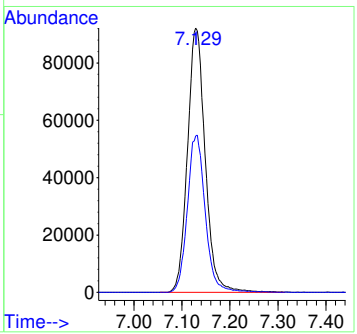


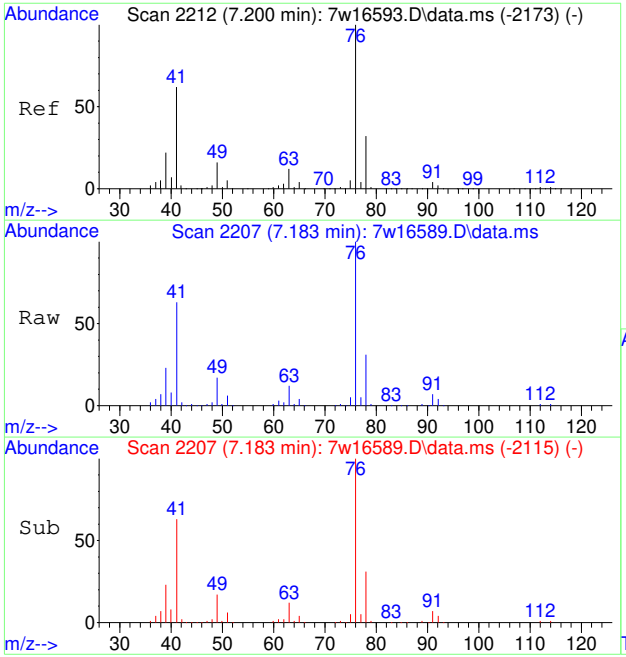


#66
TOLUENE
Concen: 5.09 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 237199

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

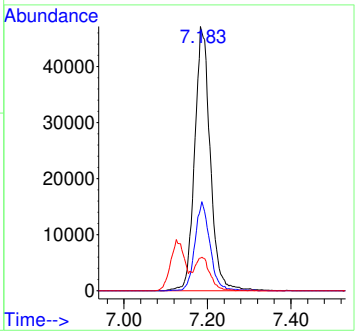


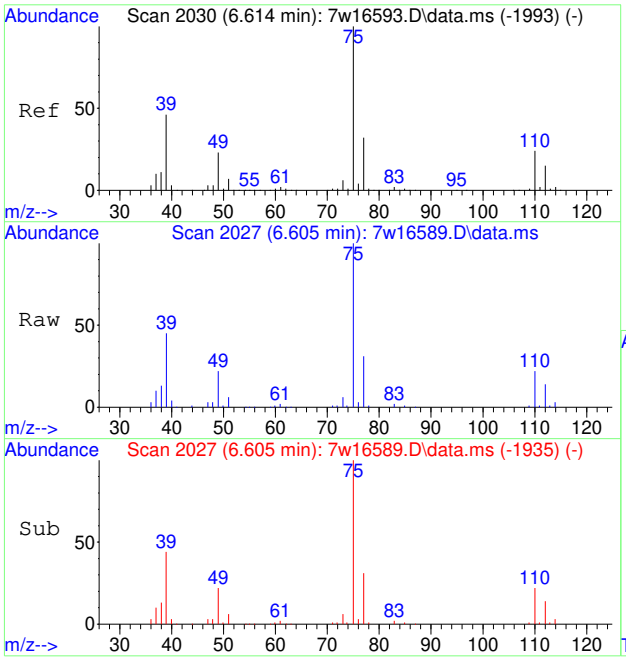


#67
1,3-DICHLOROPROPANE
Concen: 5.06 PPBV
RT: 7.183 min Scan# 2207
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 121971

Ion	Ratio	Lower	Upper
76	100		
78	32.7	22.1	41.1
63	12.0	8.0	14.8

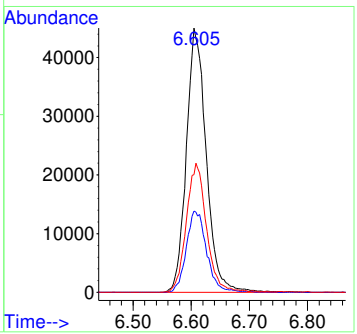


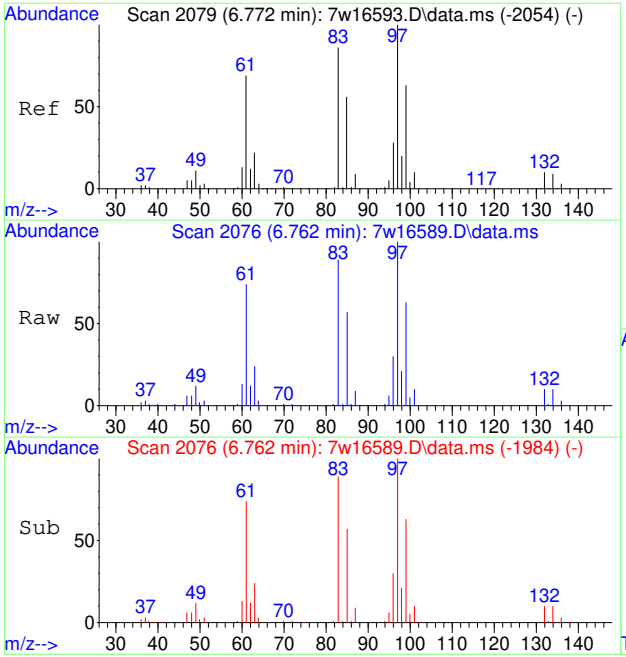


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 4.46 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 107017

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.5	41.7
39	50.0	37.2	69.0

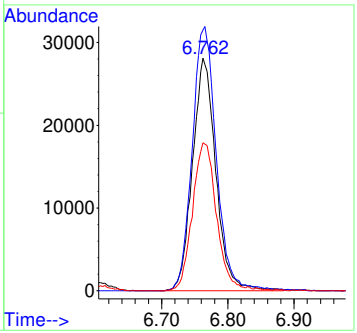


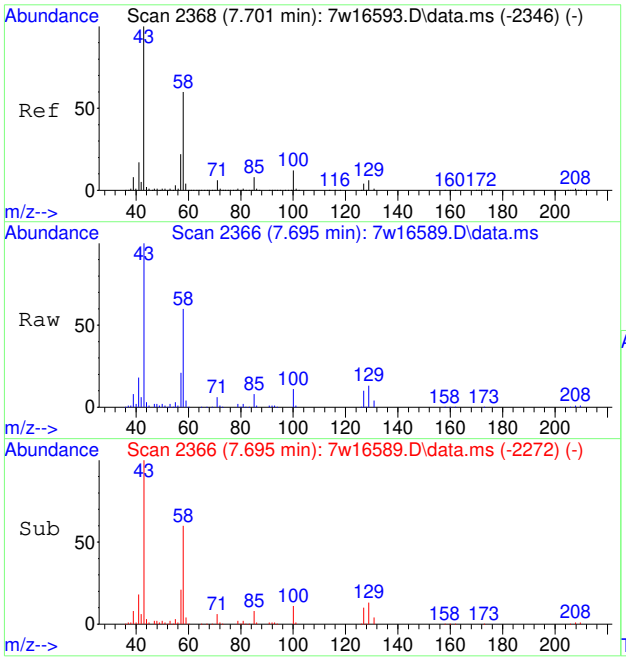


#69
1,1,2-TRICHLOROETHANE
Concen: 5.00 PPBV
RT: 6.762 min Scan# 2076
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 68995

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	65.6	45.5	84.5

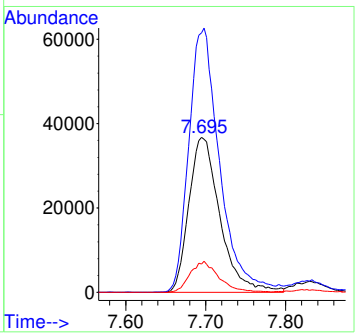


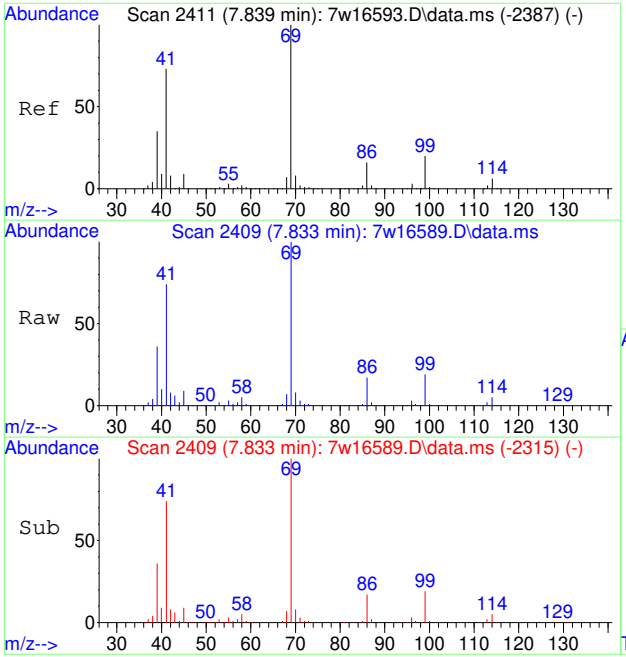


#70
2-HEXANONE
Concen: 5.01 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 99491

Ion	Ratio	Lower	Upper
58	100		
43	169.1	141.7	263.3
100	18.7	18.9	35.1#

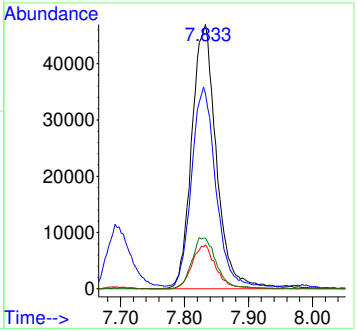


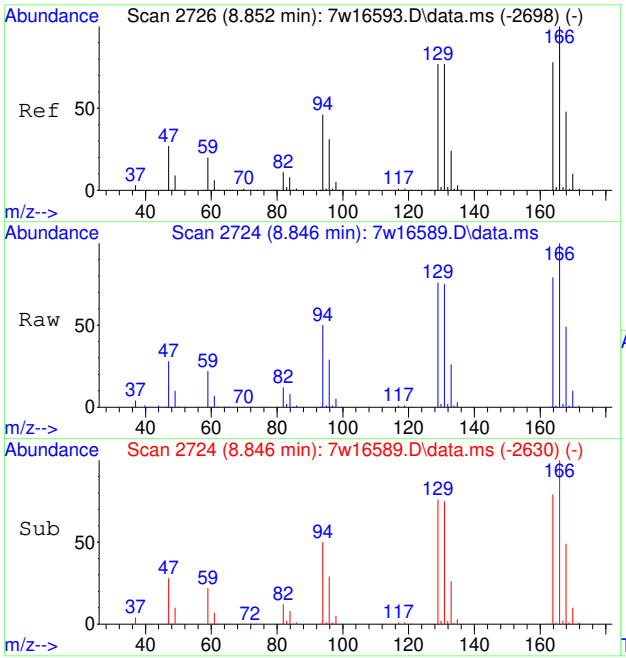


#71
ETHYL METHACRYLATE
Concen: 4.97 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 125849

Ion	Ratio	Lower	Upper
69	100		
41	76.4	49.3	91.6
86	16.1	11.6	21.6
99	19.3	13.4	24.8

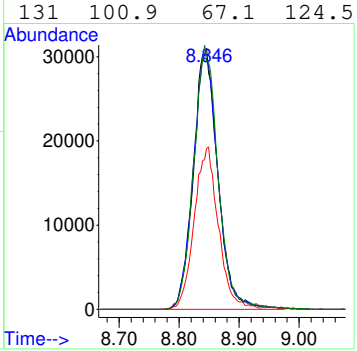


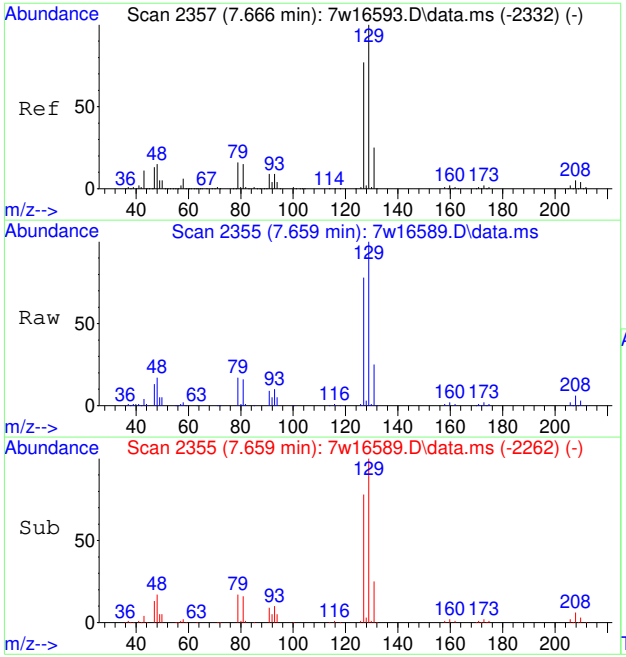


#72
TETRACHLOROETHENE
Concen: 5.13 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:164 Resp: 87888

Ion	Ratio	Lower	Upper
164	100		
129	100.6	69.7	129.5
168	61.3	43.4	80.6
131	100.9	67.1	124.5

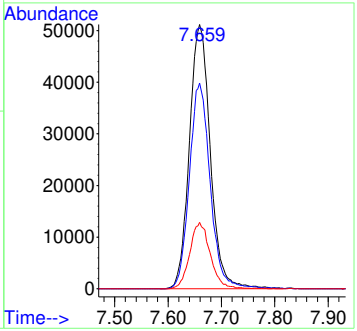


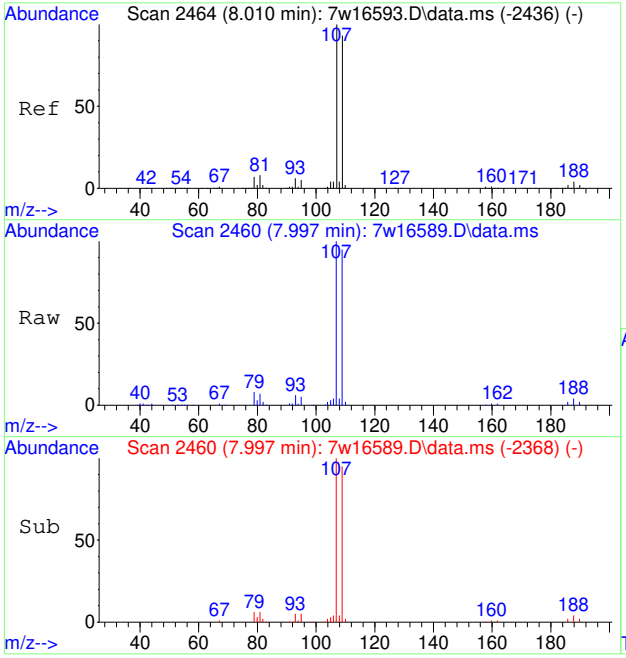


#73
DIBROMOCHLOROMETHANE
Concen: 4.88 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:129 Resp: 139976

Ion	Ratio	Lower	Upper
129	100		
127	77.4	53.0	98.4
131	24.6	16.9	31.3

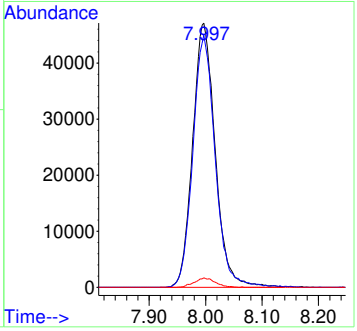


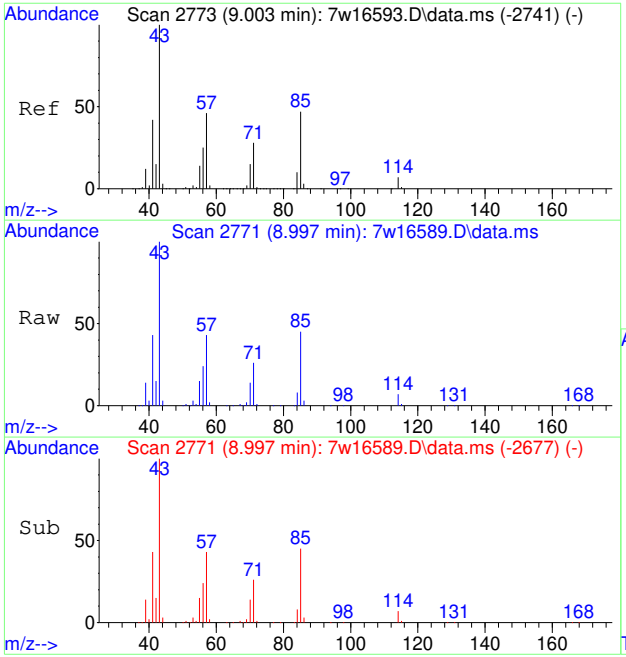


#74
1,2-DIBROMOETHANE
Concen: 5.30 PPBV
RT: 7.997 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:107 Resp: 130464

Ion	Ratio	Lower	Upper
107	100		
109	94.7	65.7	122.1
188	3.4	2.4	4.4

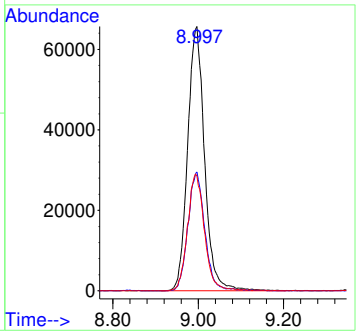


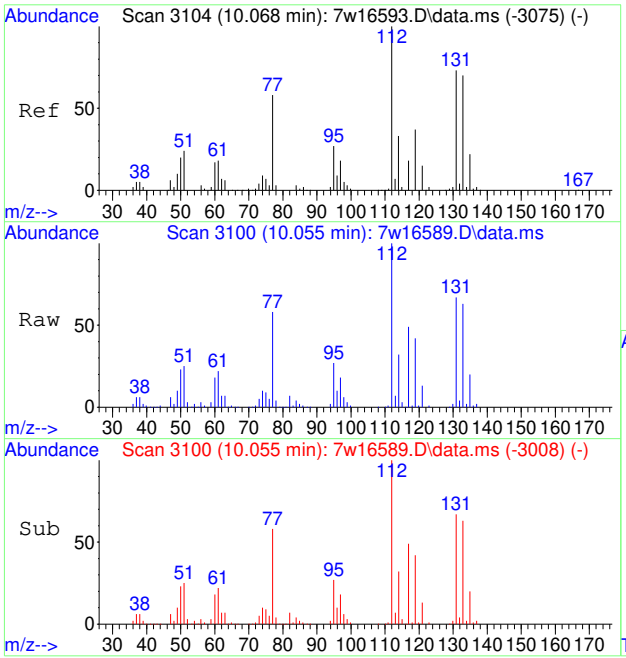


#75
OCTANE
Concen: 5.16 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 180997

Ion	Ratio	Lower	Upper
43	100		
85	45.1	36.5	67.9
57	44.3	27.6	51.2

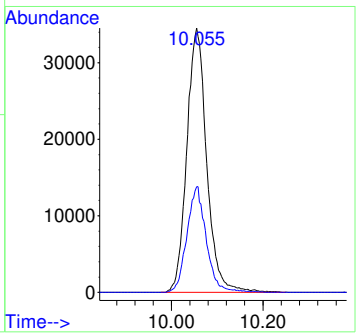


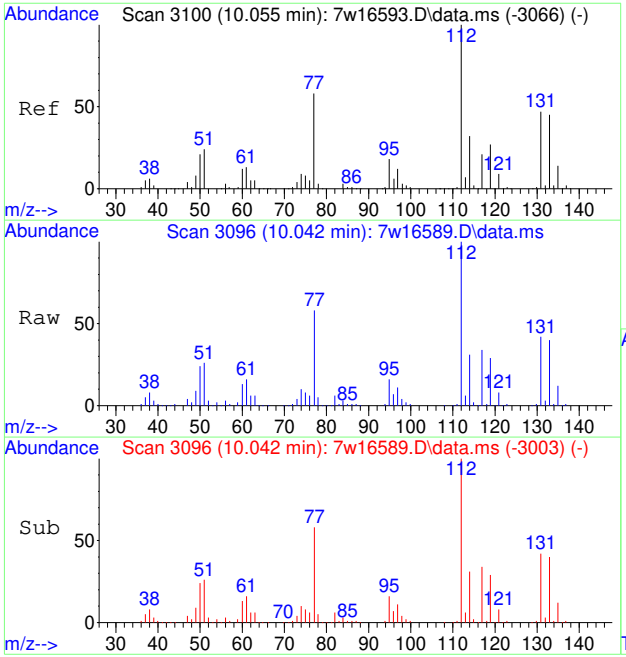


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.17 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:131 Resp: 104080

Ion	Ratio	Lower	Upper
131	100		
95	39.0	23.7	43.9

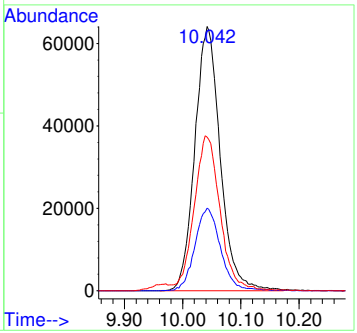


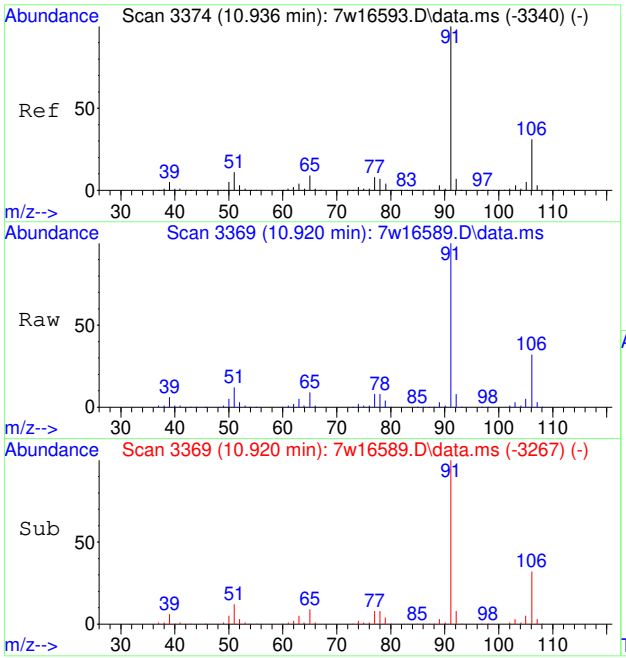


#78
CHLOROBENZENE
Concen: 5.29 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:112 Resp: 194976

Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.9	42.5
77	60.2	34.4	63.8

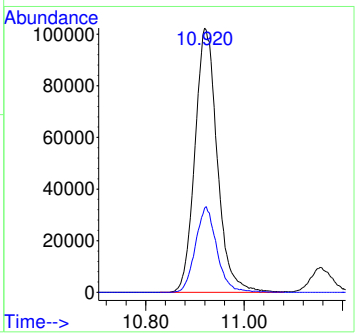


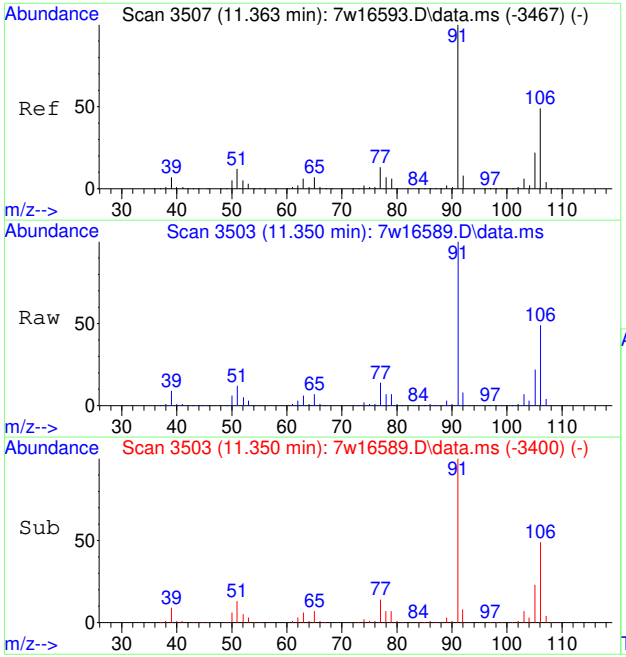


#79
ETHYLBENZENE
Concen: 5.30 PPBV
RT: 10.920 min Scan# 3369
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 322003

Ion	Ratio	Lower	Upper
91	100		
106	31.2	2.8	62.8

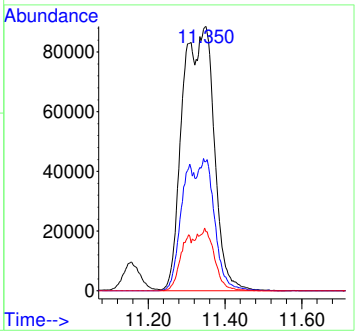


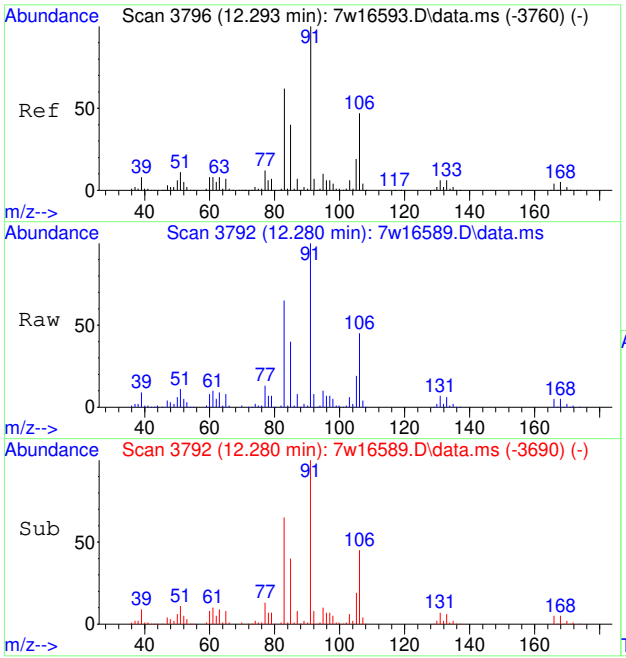


#80
M,P-XYLENE
Concen: 10.38 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 506054

Ion	Ratio	Lower	Upper
91	100		
106	28.2	0.0	58.7
105	12.9	0.0	43.2

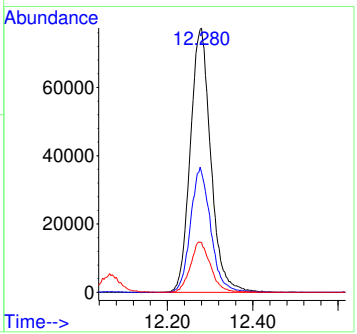


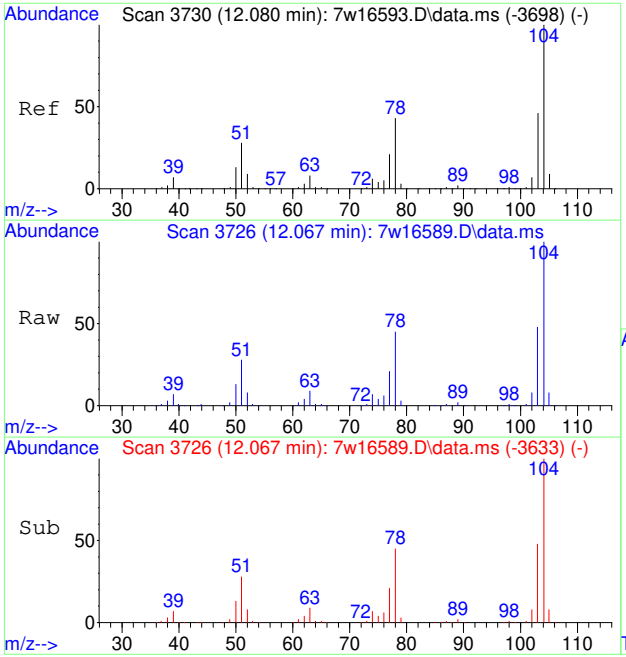


#81
O-XYLENE
Concen: 5.40 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 257748

Ion	Ratio	Lower	Upper
91	100		
106	45.3	34.1	63.3
105	19.0	14.6	27.2

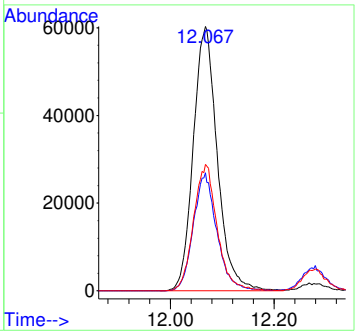


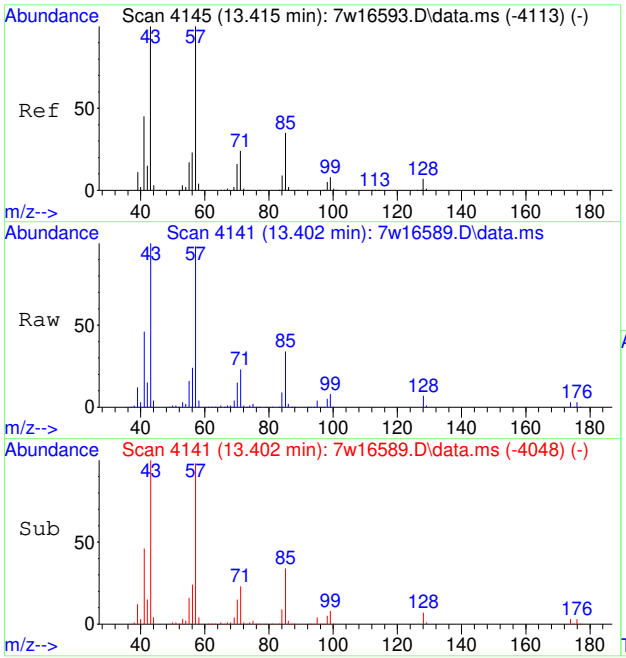


#82
STYRENE
Concen: 5.23 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:104 Resp: 194546

Ion	Ratio	Lower	Upper
104	100		
78	43.5	25.3	46.9
103	47.1	33.2	61.7

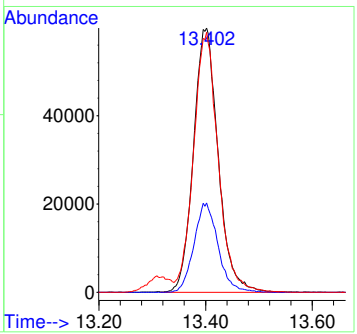


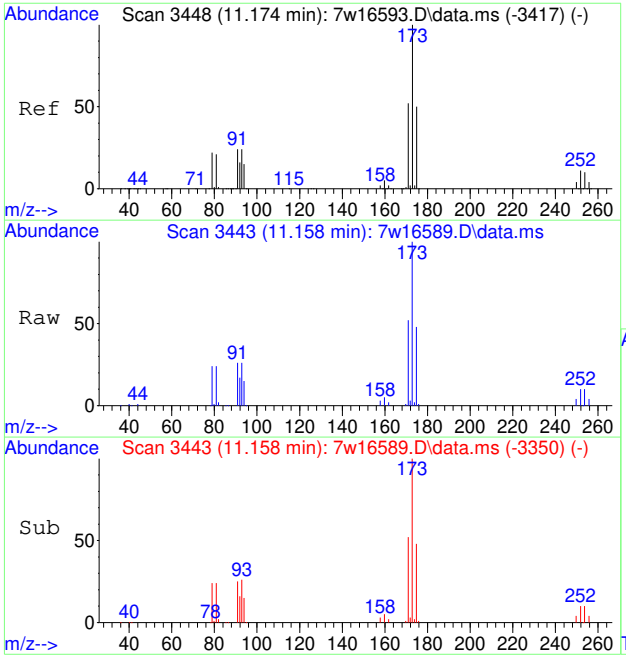


#83
NONANE
Concen: 5.27 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 192916

Ion	Ratio	Lower	Upper
43	100		
85	33.0	27.6	51.2
57	98.1	56.4	104.7

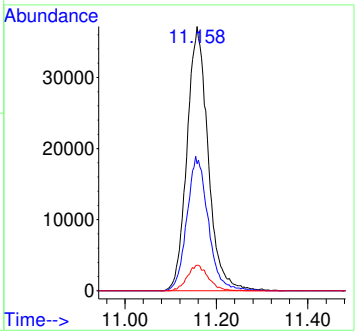


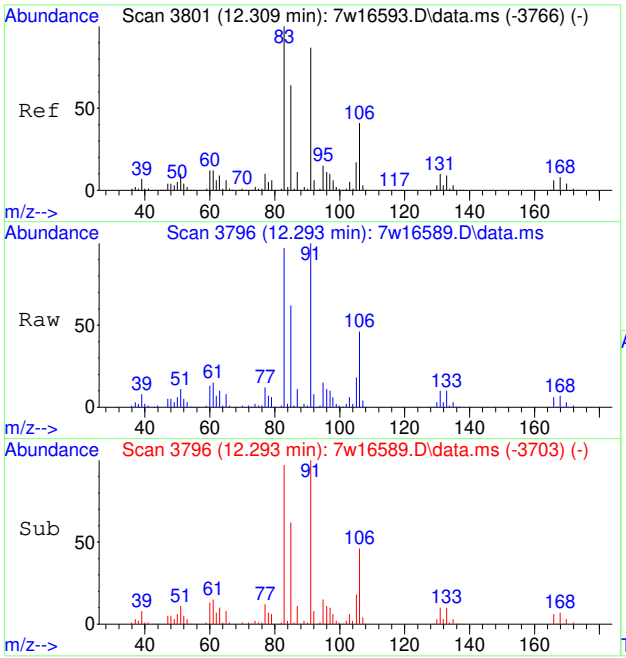


#84
BROMOFORM
Concen: 4.90 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:173 Resp: 119167

Ion	Ratio	Lower	Upper
173	100		
175	51.2	33.0	61.4
254	9.7	5.9	10.9

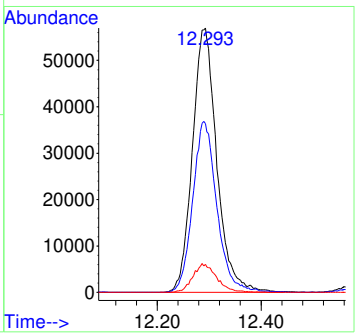


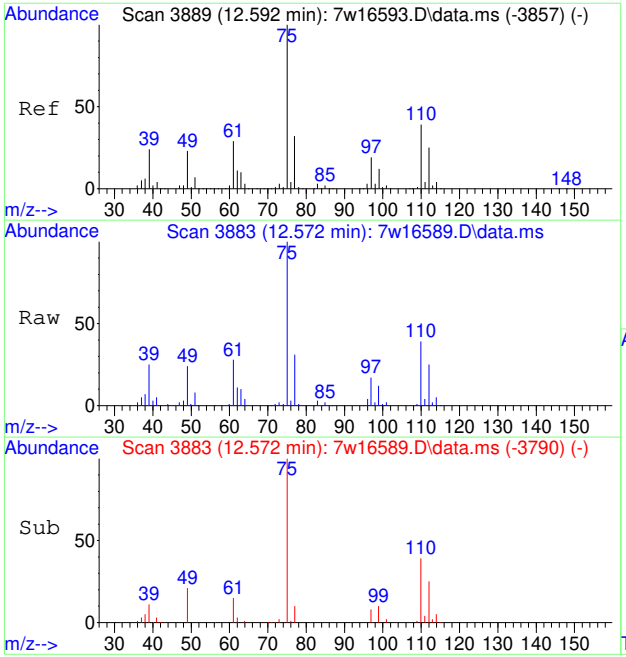


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 5.35 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 186265

Ion	Ratio	Lower	Upper
83	100		
85	64.3	44.6	82.8
131	10.6	8.0	14.8

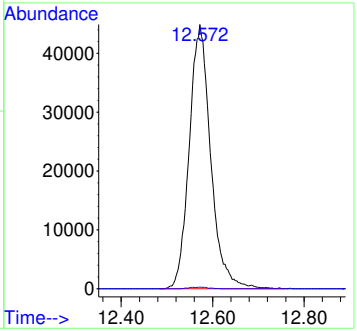


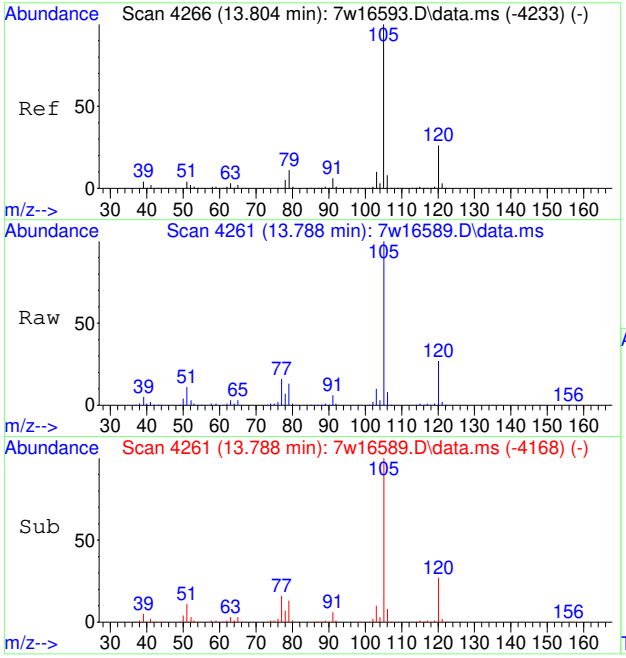


#86
1,2,3-TRICHLOROPROPANE
Concen: 5.34 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 146270

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

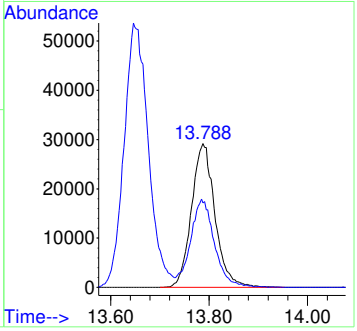


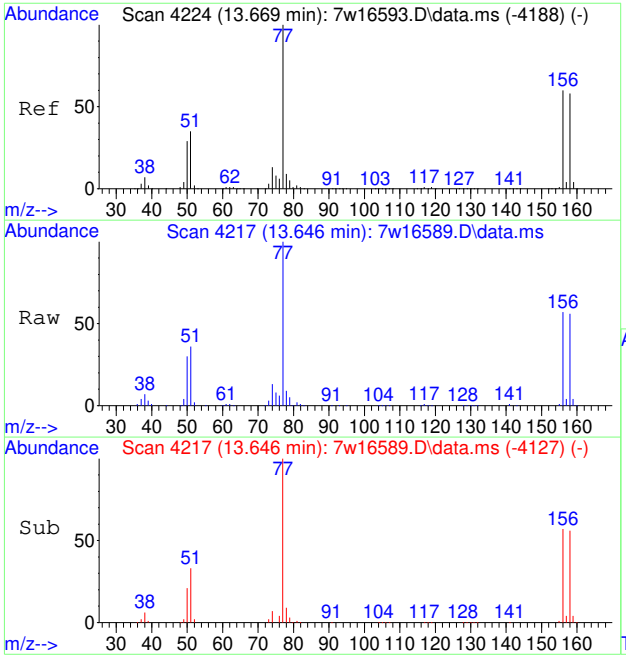


#88
ISOPROPYLBENZENE
Concen: 5.28 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 96509

Ion	Ratio	Lower	Upper
120	100		
77	62.3	36.0	67.0

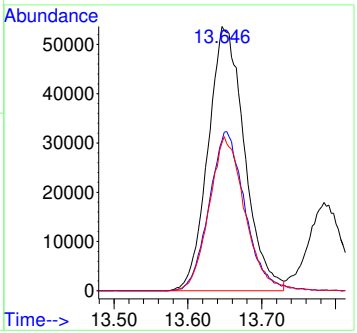


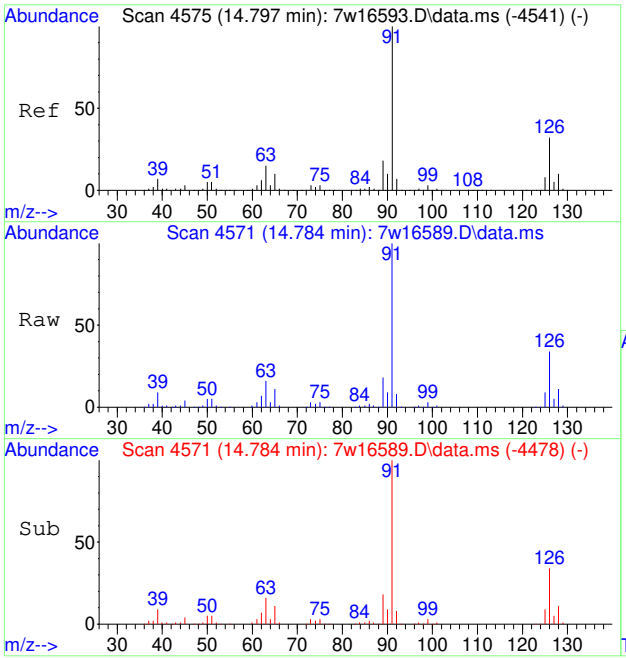


#89
BROMOBENZENE
Concen: 5.30 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 77 Resp: 183496

Ion	Ratio	Lower	Upper
77	100		
156	59.7	57.9	107.5
158	57.4	55.7	103.5

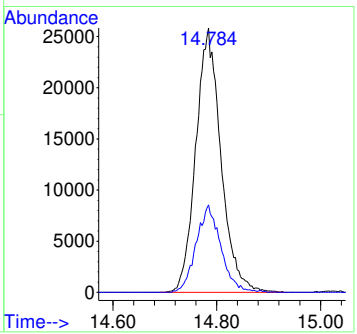


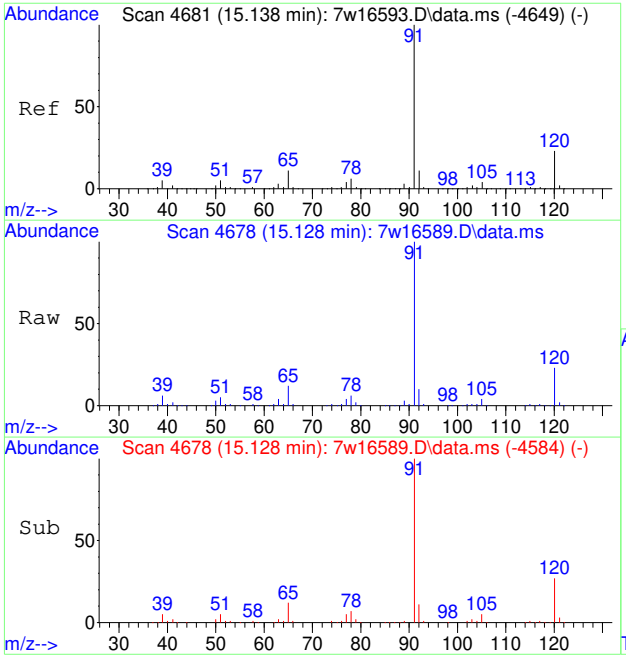


#90
2-CHLOROTOLUENE
Concen: 5.02 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:126 Resp: 86951

Ion	Ratio	Lower	Upper
126	100		
128	32.5	22.7	42.1

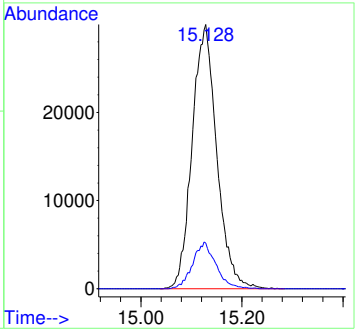


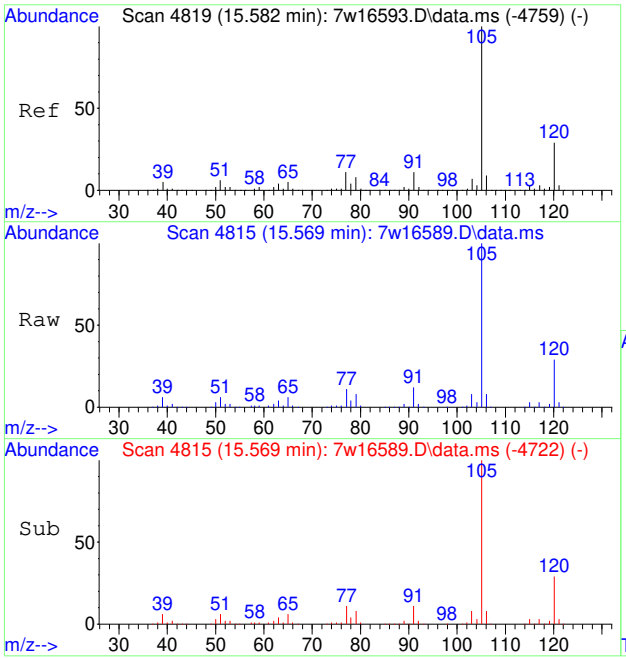


#91
N-PROPYLBENZENE
Concen: 5.12 PPBV
RT: 15.128 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 101472

Ion	Ratio	Lower	Upper
120	100		
105	16.7	10.6	19.6

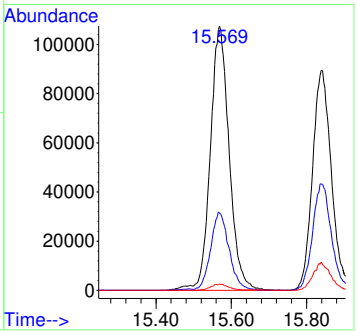


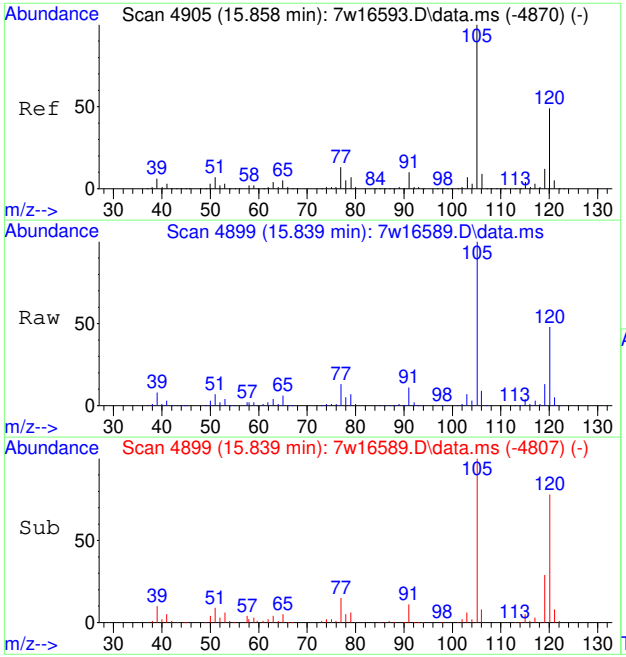


#92
4-ETHYLTOLUENE
Concen: 5.20 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 373811

Ion	Ratio	Lower	Upper
105	100		
120	29.3	21.8	40.4
119	2.4	1.7	3.1

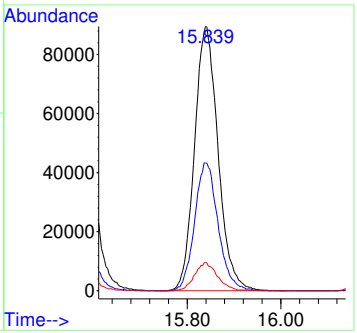


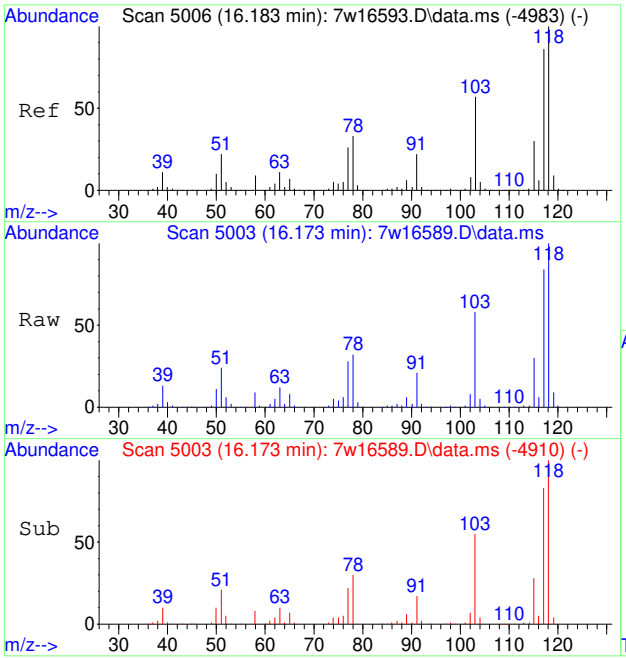


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.22 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 312677

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.5	7.5	13.9

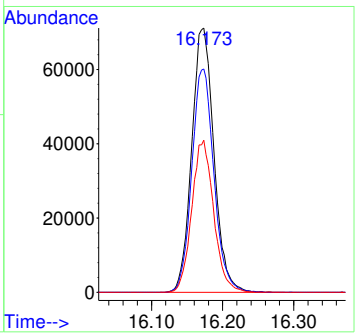


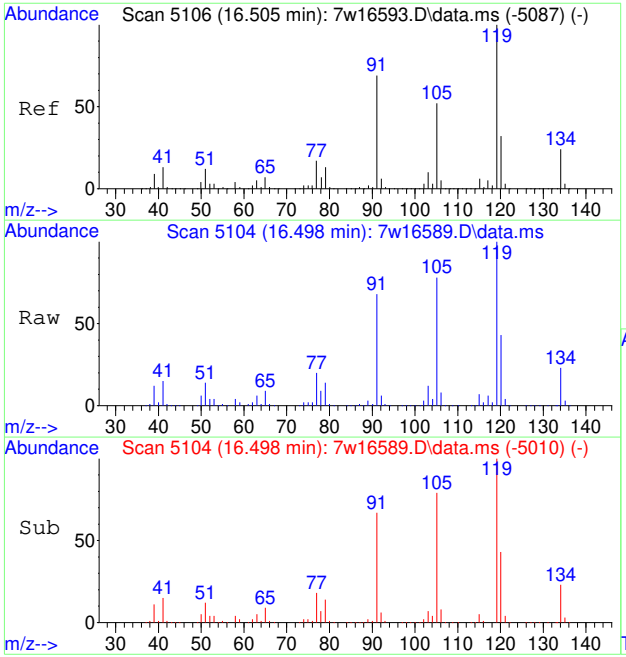


#94
ALPHA-METHYLSTYRENE
Concen: 5.06 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:118 Resp: 154689

Ion	Ratio	Lower	Upper
118	100		
117	84.3	59.9	111.3
103	56.7	36.2	67.2

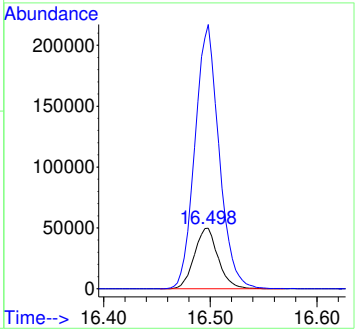


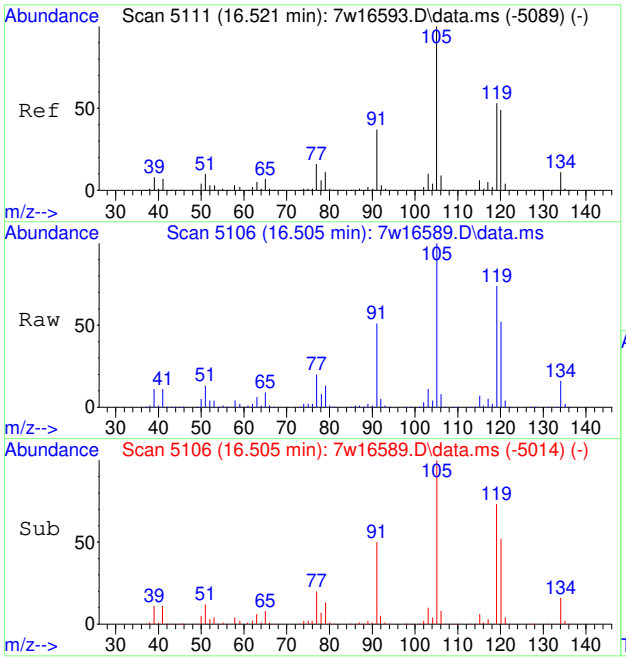


#95
TERT-BUTYLBENZENE
Concen: 5.33 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 77024

Ion	Ratio	Lower	Upper
134	100		
119	443.6	307.9	571.7

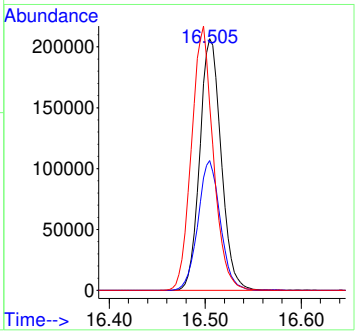


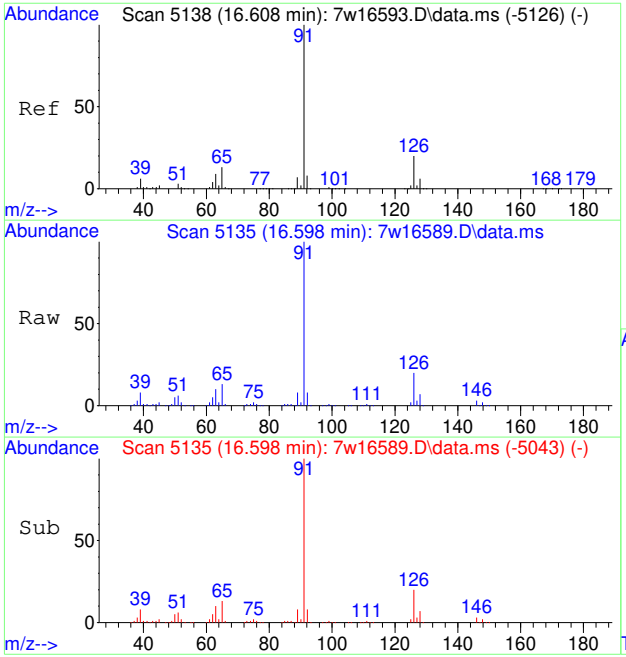


#96
1,2,4-TRIMETHYLBENZENE
Concen: 5.29 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 320531

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	106.6	78.0	144.8

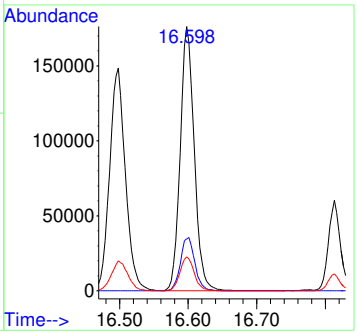


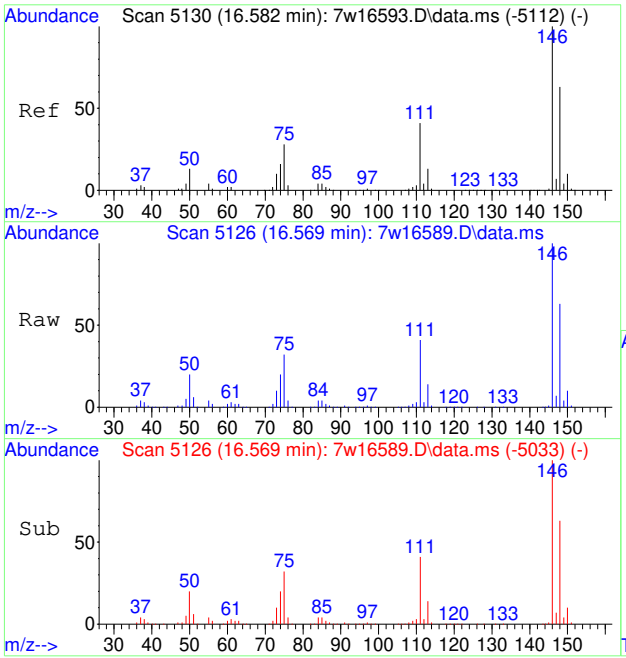


#97
BENZYL CHLORIDE
Concen: 4.80 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 250636

Ion	Ratio	Lower	Upper
91	100		
126	20.7	17.2	32.0
65	13.1	7.3	13.7

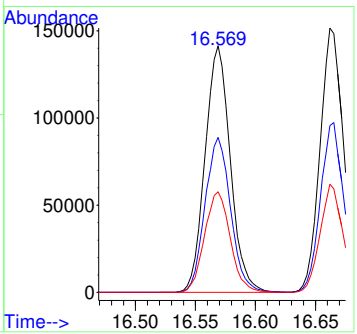


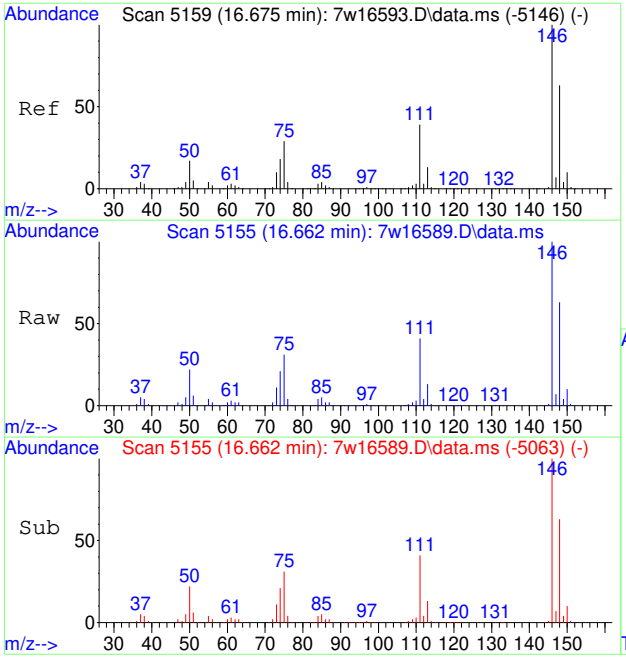


#98
M-DICHLOROBENZENE
Concen: 5.11 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 206691

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.7	25.4	47.2

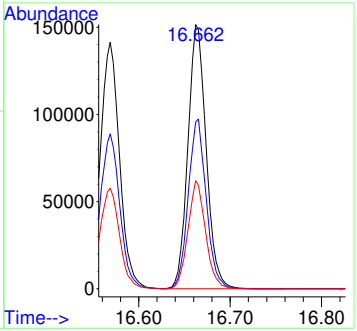


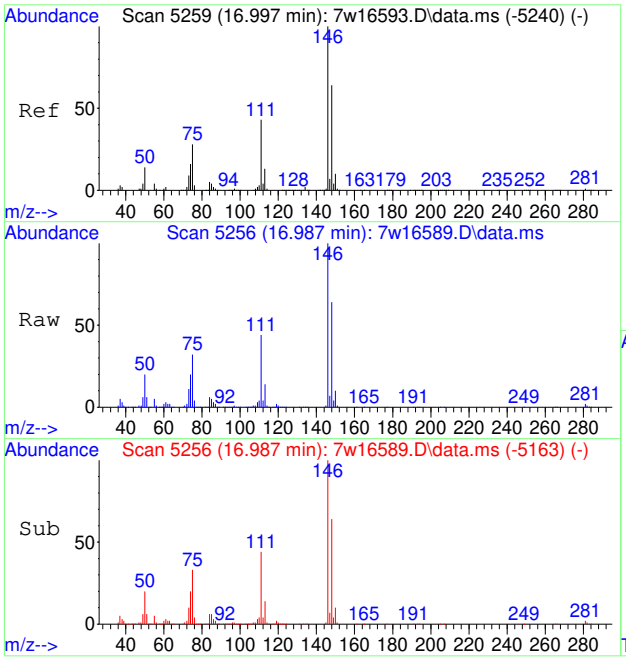


#99
P-DICHLOROBENZENE
Concen: 5.27 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 210041

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	39.5	24.8	46.1

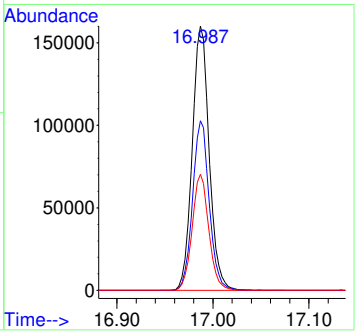


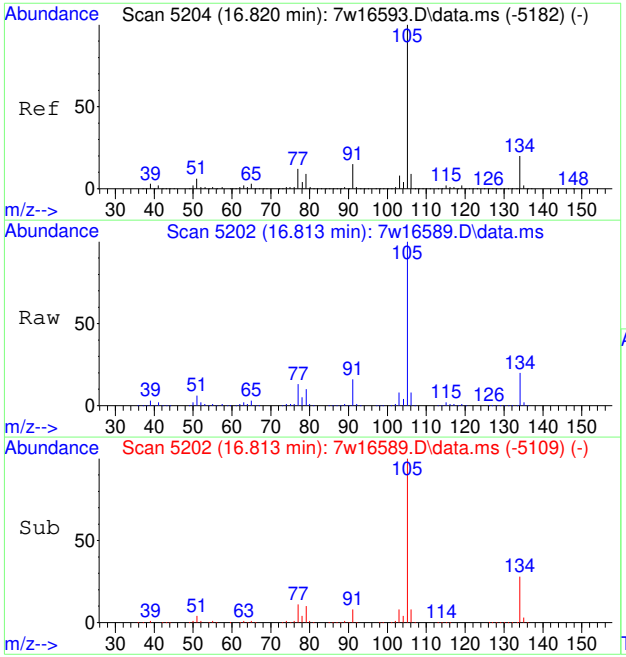


#100
O-DICHLOROBENZENE
Concen: 5.24 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 196281

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.2	26.9	50.1

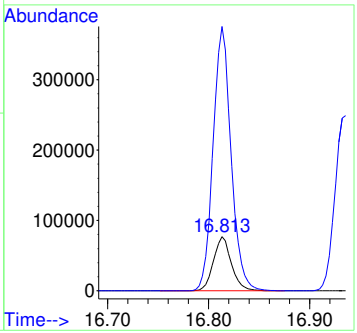


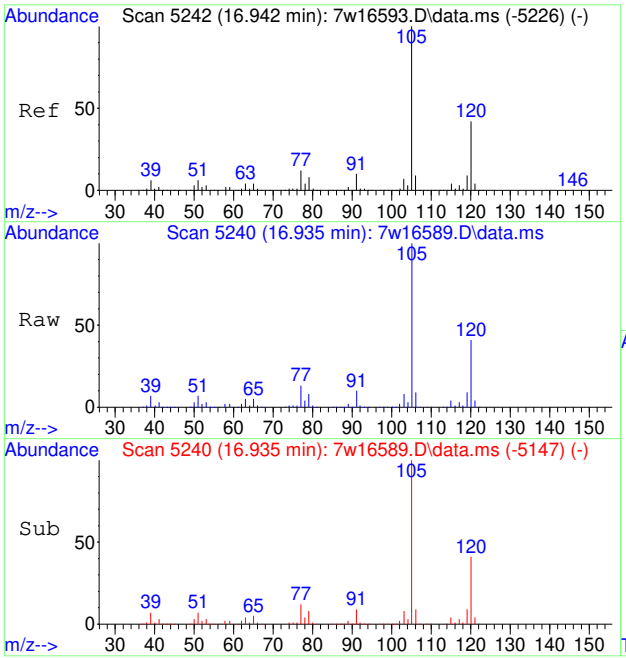


#101
SEC-BUTYLBENZENE
Concen: 5.43 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 94529

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

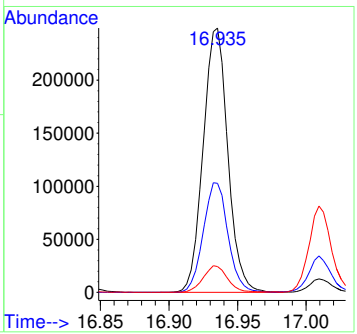


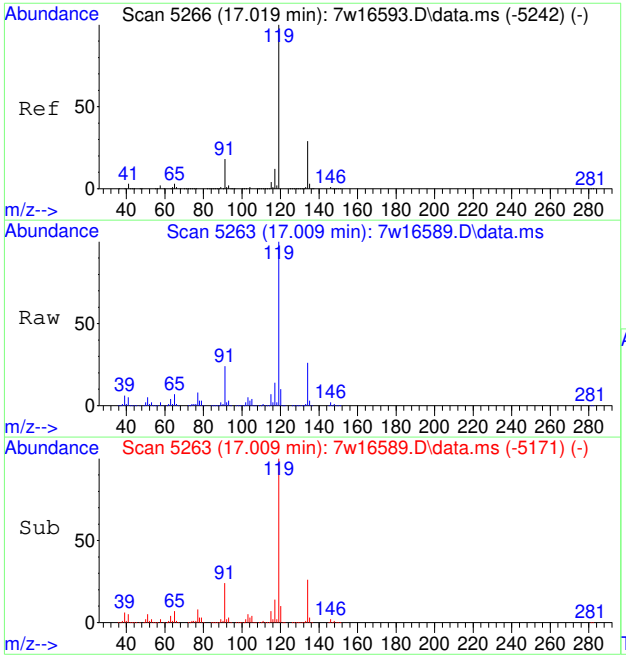


#102
1,2,3-TRIMETHYLBENZENE
Concen: 5.23 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 310890

Ion	Ratio	Lower	Upper
105	100		
120	41.6	31.9	59.2
91	10.1	7.3	13.5

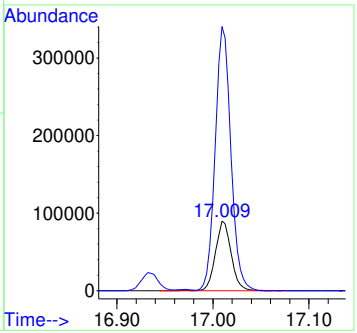


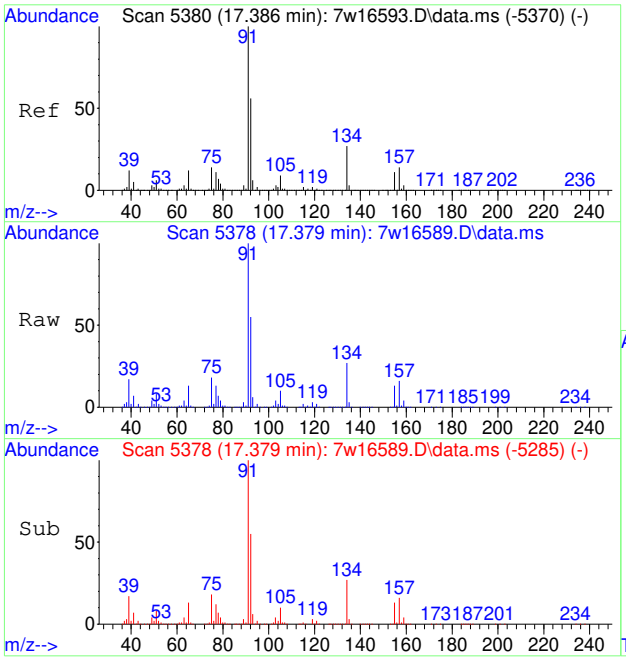


#103
P-ISOPROPYLTOLUENE
Concen: 5.24 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 102620

Ion	Ratio	Lower	Upper
134	100		
119	378.3	253.7	471.3

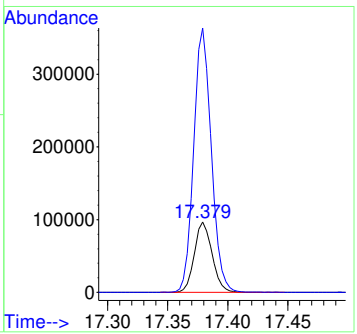


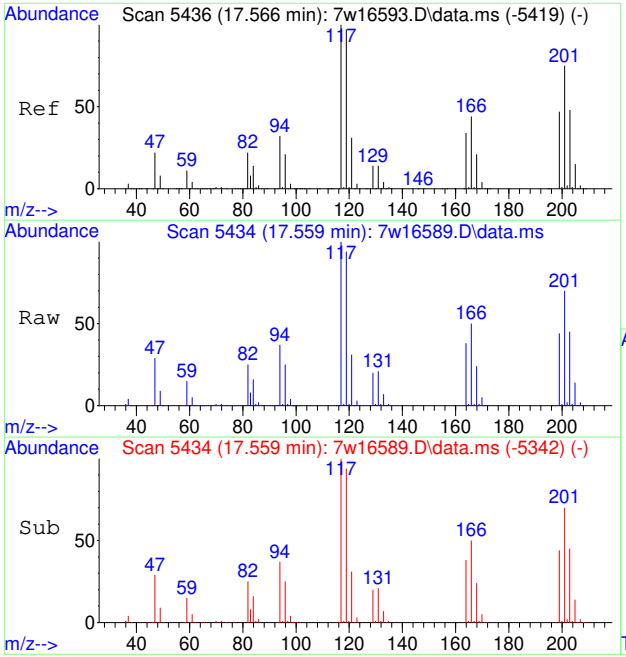


#104
N-BUTYLBENZENE
Concen: 5.28 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 99471

Ion	Ratio	Lower	Upper
134	100		
91	373.3	231.1	429.1

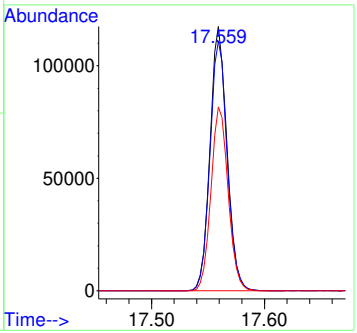


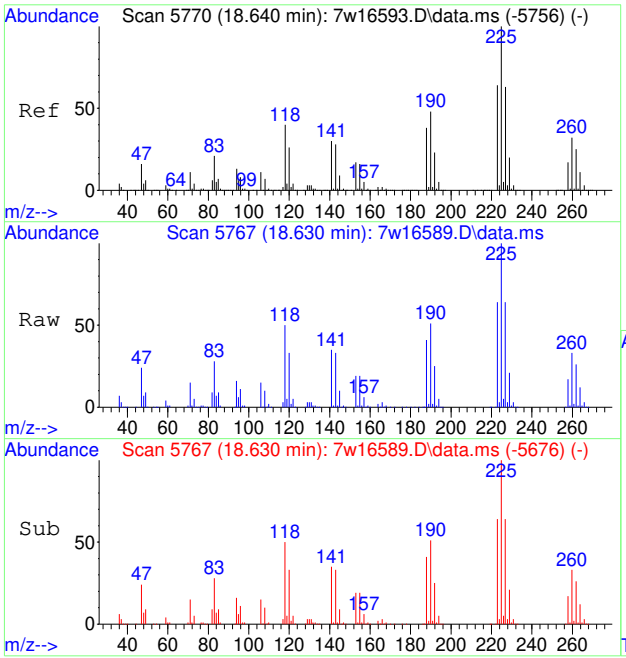


#105
HEXACHLOROETHANE
Concen: 5.22 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 121985

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	70.5	45.9	85.3

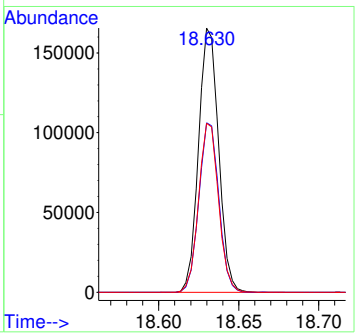


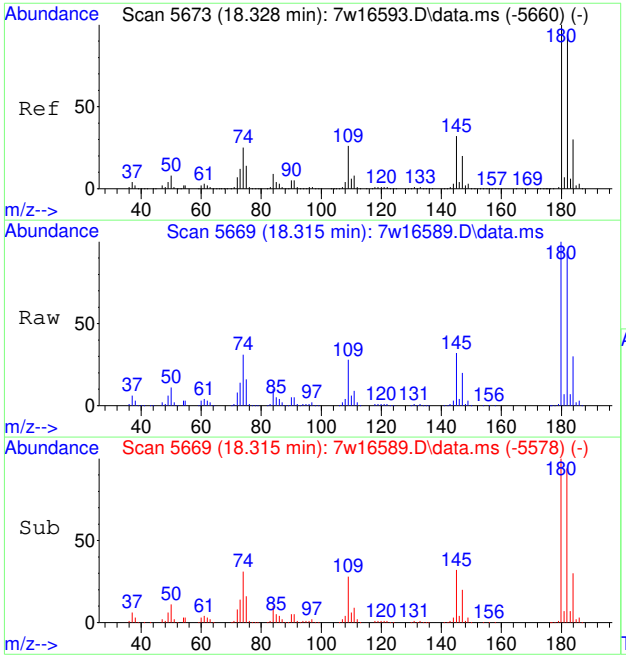


#106
HEXACHLOROBUTADIENE
Concen: 5.62 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:225 Resp: 144324

Ion	Ratio	Lower	Upper
225	100		
227	63.8	44.4	82.5
223	63.5	44.7	83.1

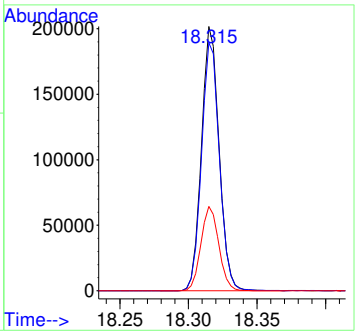


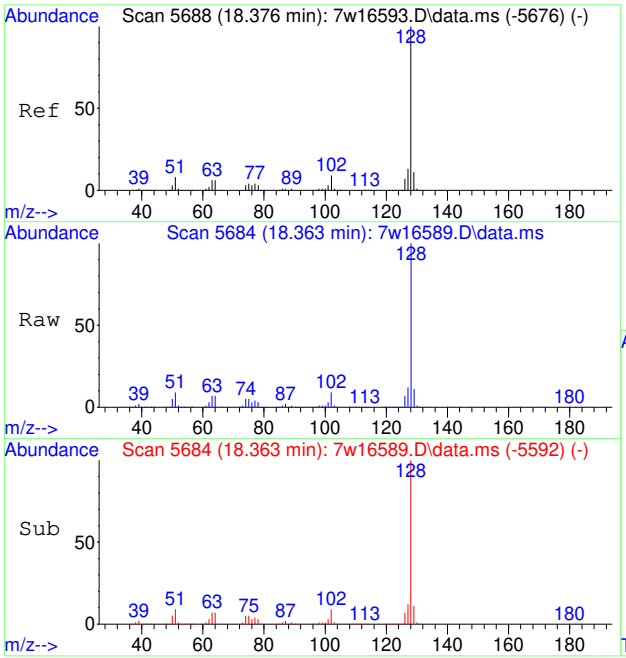


#107
1,2,4-TRICHLOROBENZENE
Concen: 5.43 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:180 Resp: 179655

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.5	23.1	42.9

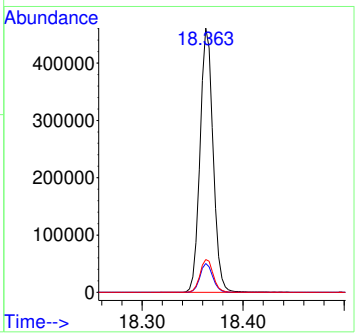


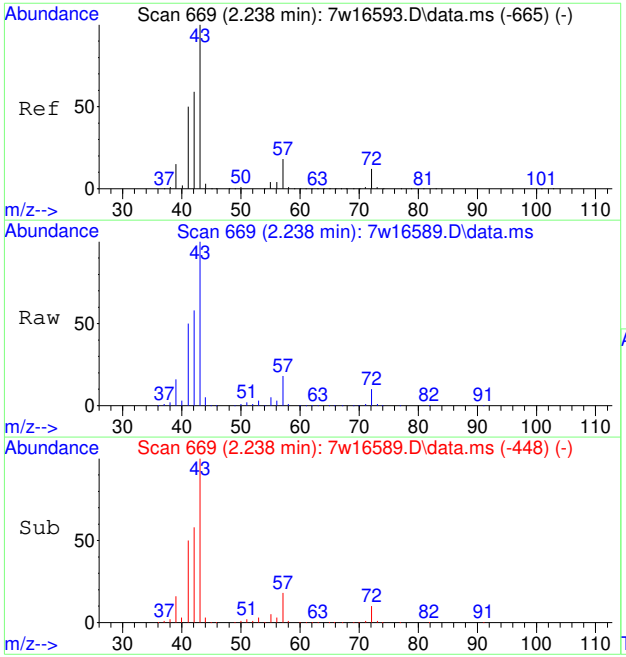


#108
NAPHTHALENE
Concen: 5.36 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:128 Resp: 413175

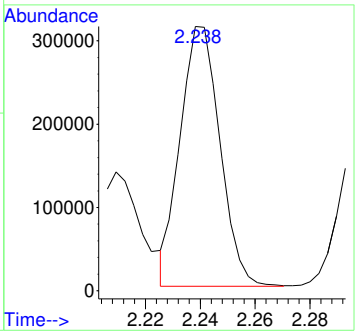
Ion	Ratio	Lower	Upper
128	100		
129	10.8	7.3	13.7
127	12.6	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 5.18 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:TIC Resp: 315100



7.7.18

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16589.D
Injection Time: 08/07/25 12:29

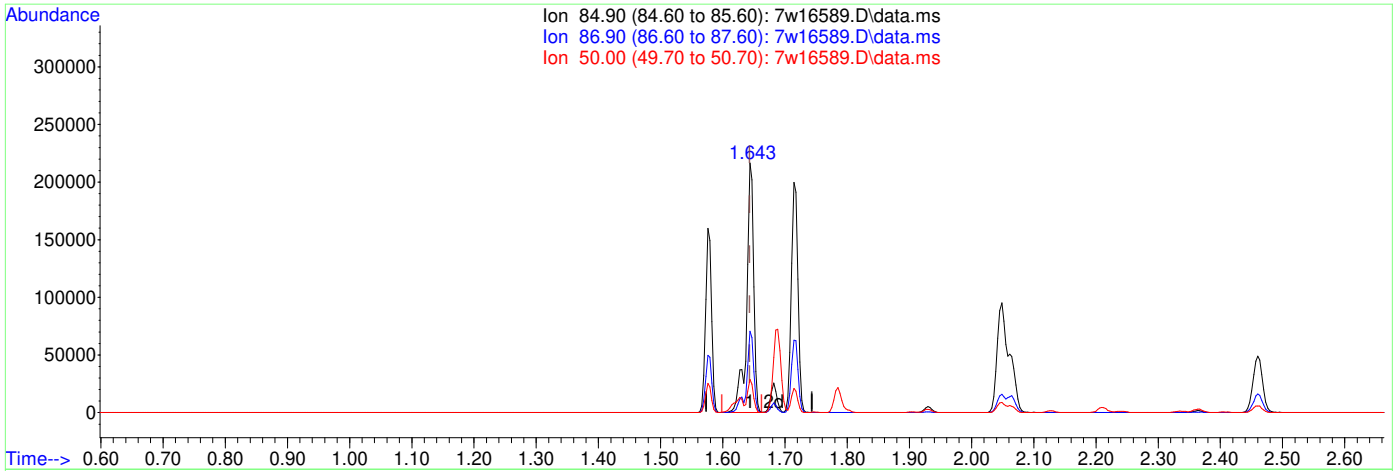
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

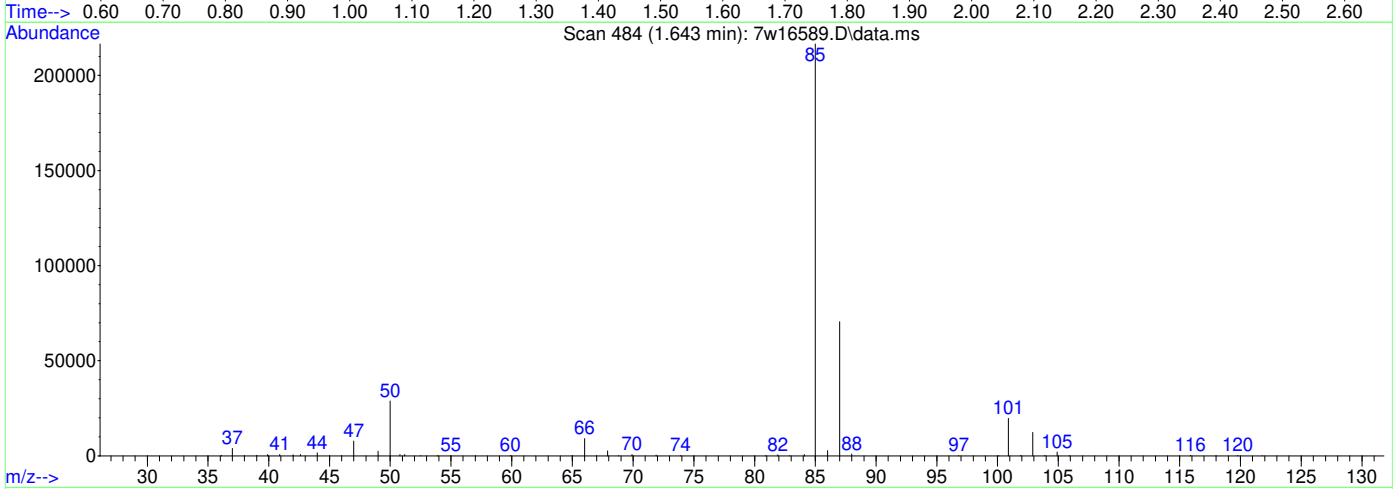
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 5.16PPBV

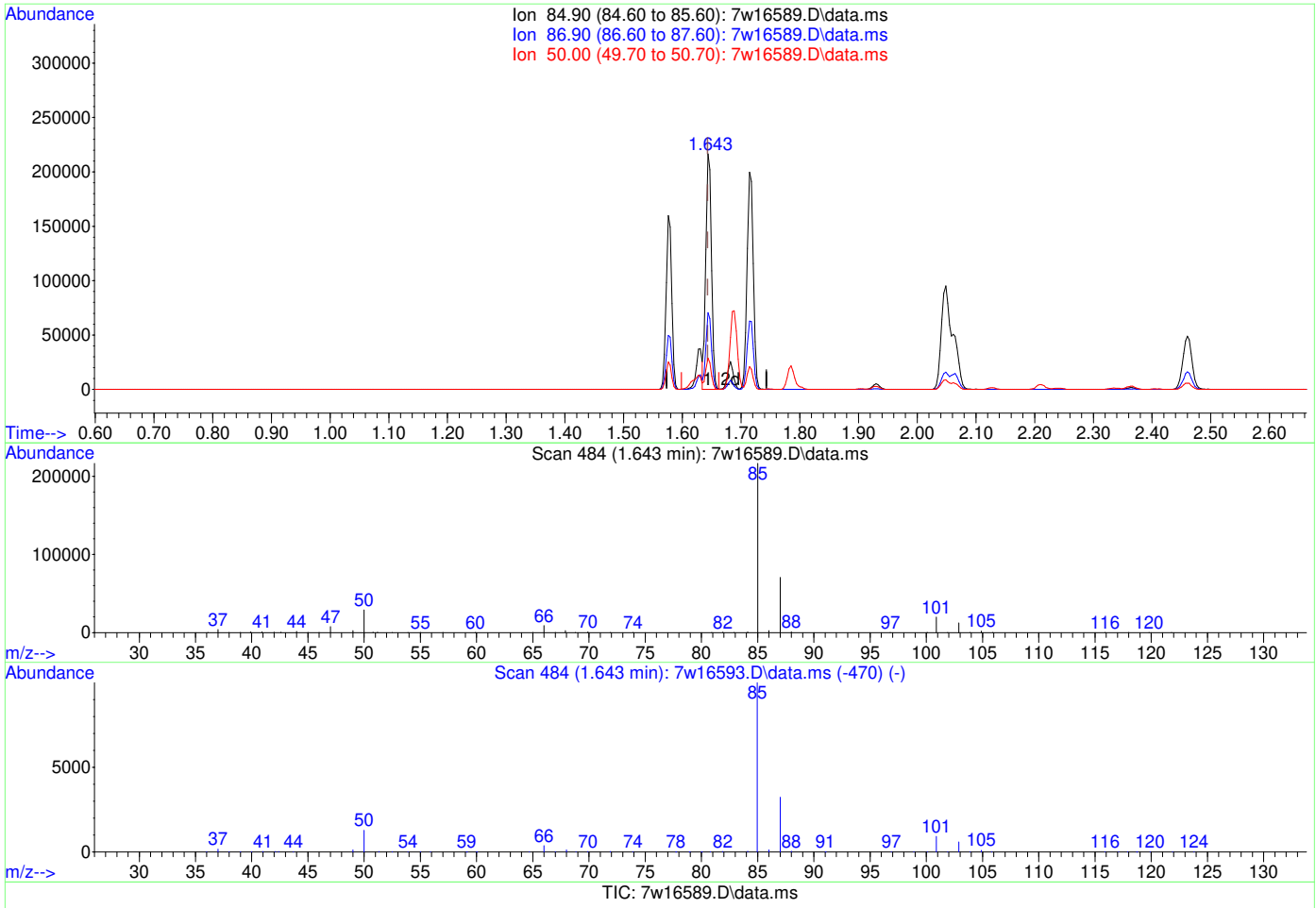
response 170335

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.55
50.00	17.30	19.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 4.36PPBV m

response 143733

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.57
50.00	17.30	22.75#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110672	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	555876	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511162	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110672	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415854	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	148485	10.40	PPBV		88
3) FREON 152A	1.605	65	71639	10.50	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	32817	10.59	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.627	116	161129	10.60	PPBV		71
6) DICHLORODIFLUOROMETHANE	1.643	85	294067m	8.88	PPBV		
7) PROPYLENE	1.627	41	92922	10.60	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	267066	10.80	PPBV		99
9) FREON 114	1.714	85	301155	10.40	PPBV		83
10) CHLOROMETHANE	1.685	52	39544	10.60	PPBV		99
11) VINYL CHLORIDE	1.746	62	141282	10.20	PPBV		99
12) 1,3-BUTADIENE	1.785	54	110559	10.30	PPBV	#	75
13) N-BUTANE	1.801	43	196391	10.67	PPBV		98
14) BROMOMETHANE	1.859	94	107418	10.20	PPBV		97
15) CHLOROETHANE	1.904	64	73302	10.00	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	261718	10.00	PPBV		96
17) ACETONITRILE	1.994	41	111653	9.70	PPBV		96
18) ACROLEIN	2.032	56	63526	10.60	PPBV		96
19) FREON 123	2.049	83	286896	10.73	PPBV		96
20) FREON 123A	2.065	117	168072	10.70	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.126	101	307938	10.10	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	265396	10.50	PPBV		89
23) ACETONE	2.071	58	72855	10.40	PPBV		64
24) PENTANE	2.238	42	138571	10.60	PPBV		88
25) IODOMETHANE	2.299	142	299236	10.70	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	121096	10.70	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	348427	10.60	PPBV		94
28) ETHANOL	1.933	45	62817	9.70	PPBV		98
29) BROMOETHENE	2.004	106	111170	10.10	PPBV		95
30) ACRYLONITRILE	2.209	52	103886	10.70	PPBV		97
31) METHYLENE CHLORIDE	2.364	84	109559	10.20	PPBV	#	74
32) 3-CHLOROPROPENE	2.405	76	62528	10.20	PPBV		72
33) FREON 113	2.460	151	187009	10.60	PPBV		85
34) TRANS-1,2-DICHLOROETHENE	2.685	96	127301	10.20	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.335	59	296206	9.59	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	372073	10.49	PPBV		97
37) TETRAHYDROFURAN	3.466	72	57483	9.70	PPBV		81
38) HEXANE	3.238	57	246511	10.50	PPBV		81
39) VINYL ACETATE	2.827	86	35168	10.20	PPBV		71
40) 1,1-DICHLOROETHANE	2.759	63	250914	10.20	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	65983	10.43	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.113	96	134402	10.34	PPBV	#	74
43) DIISOPROPYL ETHER	3.241	59	70916	10.51	PPBV		94
44) ETHYL ACETATE	3.248	61	50059	10.49	PPBV		62
45) METHYL ACRYLATE	3.235	55	305217	10.50	PPBV	#	98
46) CHLOROFORM	3.261	83	269897	10.50	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	286654	10.70	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	278334	10.38	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	291854	10.20	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.659	62	205888	10.20	PPBV		98
51)	BENZENE	4.126	78	391334	10.41	PPBV		90
53)	CYCLOHEXANE	4.331	84	177560	10.40	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.582	71	92078	10.60	PPBV		68
55)	TRICHLOROETHENE	5.013	95	180016	9.90	PPBV		86
56)	1,2-DICHLOROPROPANE	4.782	63	164997	10.30	PPBV		92
57)	DIBROMOMETHANE	4.740	174	152742	10.28	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	381569	10.50	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.958	83	297999	9.90	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	772831	10.20	PPBV	#	95
61)	1,4-DIOXANE	5.023	88	89212	9.94	PPBV	#	83
62)	HEPTANE	5.418	43	263524	10.40	PPBV		91
63)	METHYL METHACRYLATE	5.315	69	149851	10.30	PPBV		88
64)	METHYL ISOBUTYL KETONE	6.035	58	152356	10.20	PPBV		78
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	257147	10.12	PPBV		96
66)	TOLUENE	7.129	91	488762	10.60	PPBV		97
67)	1,3-DICHLOROPROPANE	7.187	76	252760	10.60	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	227014	9.56	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.765	83	143412	10.50	PPBV		95
70)	2-HEXANONE	7.691	58	203944	10.38	PPBV	#	79
71)	ETHYL METHACRYLATE	7.830	69	260130	10.39	PPBV		95
72)	TETRACHLOROETHENE	8.842	164	181618	10.70	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.659	129	295382	10.40	PPBV		97
74)	1,2-DIBROMOETHANE	8.000	107	267727	10.99	PPBV		99
75)	OCTANE	8.994	43	371213	10.70	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	219545	10.90	PPBV		93
78)	CHLOROBENZENE	10.042	112	401465	10.90	PPBV		90
79)	ETHYLBENZENE	10.923	91	667794	11.00	PPBV		97
80)	M,P-XYLENE	11.350	91	1033120	21.20	PPBV		96
81)	O-XYLENE	12.283	91	525465	11.00	PPBV		95
82)	STYRENE	12.067	104	405889	10.90	PPBV		94
83)	NONANE	13.402	43	395697	10.80	PPBV		83
84)	BROMOFORM	11.157	173	257628	10.60	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	382601	10.99	PPBV		98
86)	1,2,3-TRICHLOROPROPANE	12.572	75	301186	11.00	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	197546	10.80	PPBV		87
89)	BROMOBENZENE	13.656	77	373873	10.80	PPBV		76
90)	2-CHLOROTOLUENE	14.784	126	179837	10.39	PPBV		99
91)	N-PROPYLBENZENE	15.125	120	208155	10.50	PPBV		97
92)	4-ETHYLTOLUENE	15.569	105	761814	10.60	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	641174	10.70	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.173	118	317898	10.40	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	157456	10.90	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	660136	10.90	PPBV		95
97)	BENZYL CHLORIDE	16.601	91	547978	10.50	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	424825	10.50	PPBV		96
99)	P-DICHLOROBENZENE	16.665	146	430477	10.80	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	400770	10.70	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	191611	11.00	PPBV		83
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	636319	10.70	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	211524	10.80	PPBV		95
104)	N-BUTYLBENZENE	17.379	134	205284	10.90	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	254836	10.90	PPBV		97
106)	HEXACHLOROBUTADIENE	18.636	225	300683	11.70	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.321	180	387303	11.70	PPBV		99
108)	NAPHTHALENE	18.366	128	909462	11.80	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	646941	10.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

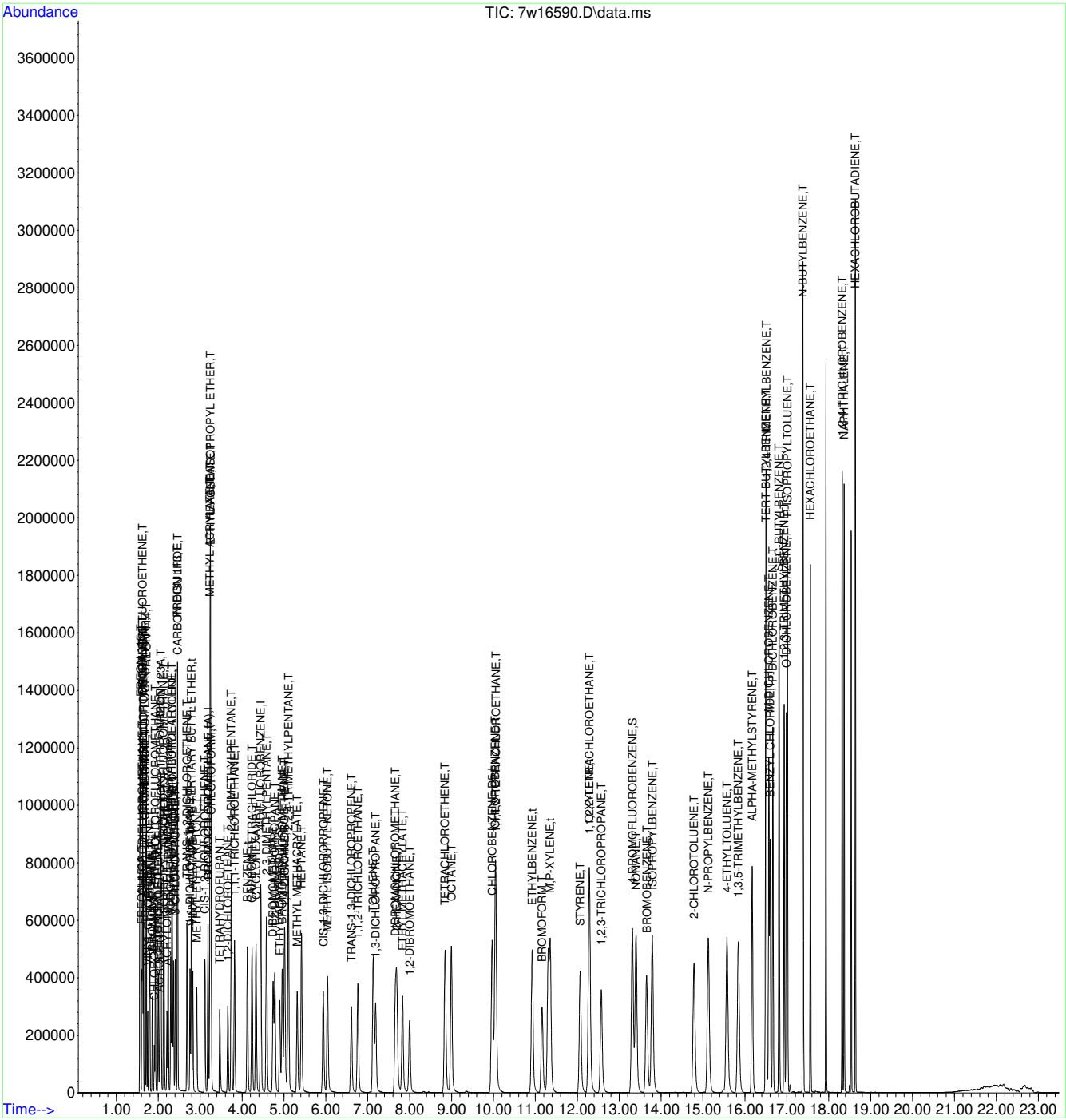
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

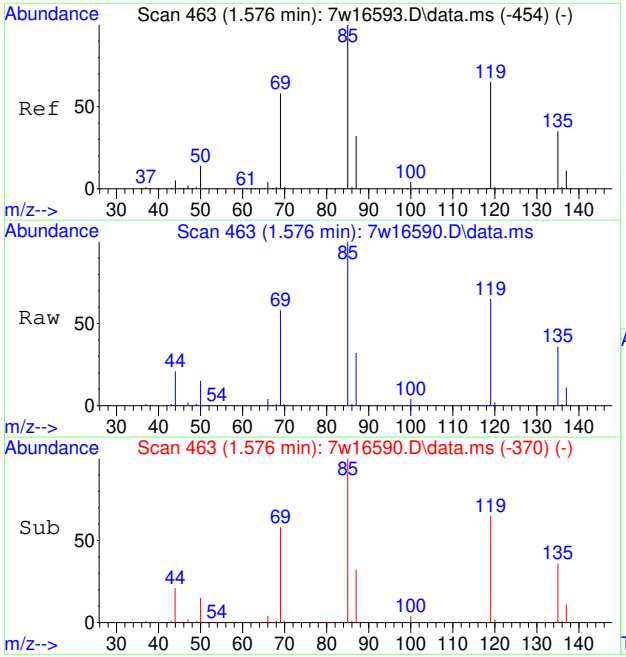
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

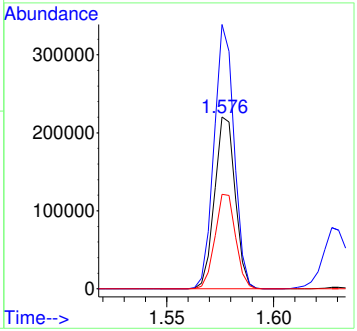


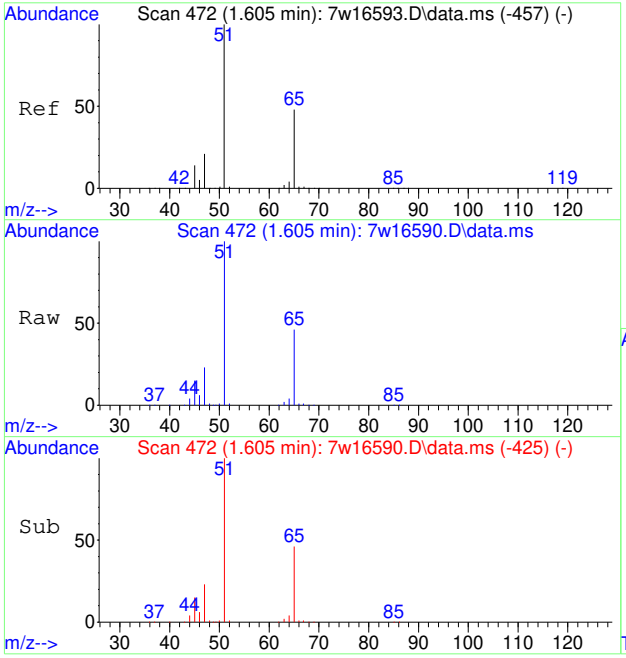


#2
FREON 115
Concen: 10.40 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:119 Resp: 148485

Ion	Ratio	Lower	Upper
119	100		
85	149.1	90.9	168.7
135	55.2	38.2	71.0

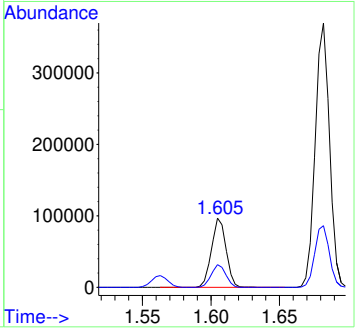


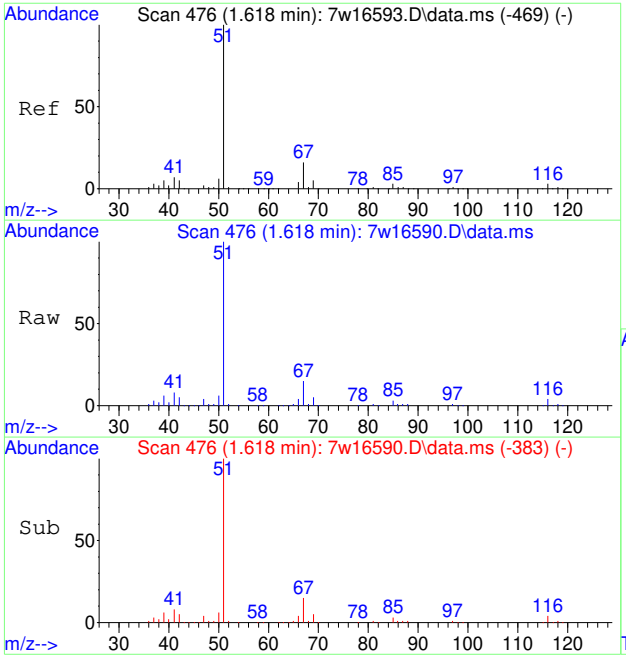


#3
FREON 152A
Concen: 10.50 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 71639

Ion	Ratio	Lower	Upper
65	100		
45	32.9	20.6	38.4

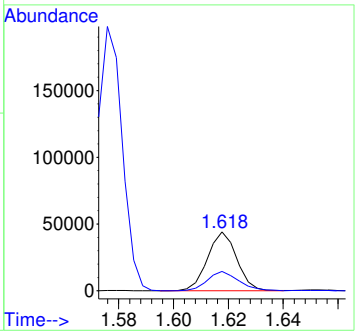


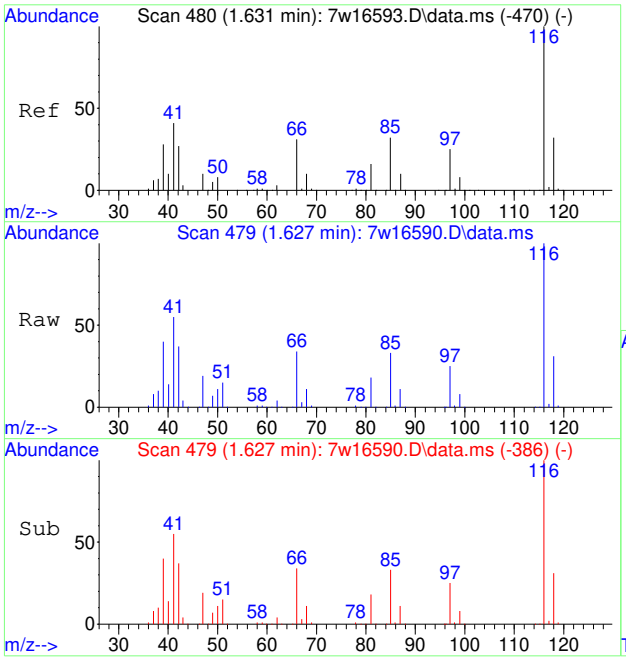


#4
CHLORODIFLUOROMETHANE
Concen: 10.59 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 32817

Ion	Ratio	Lower	Upper
67	100		
69	36.2	25.4	47.2

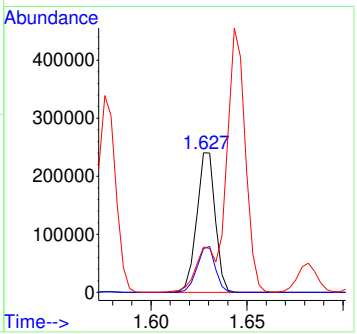


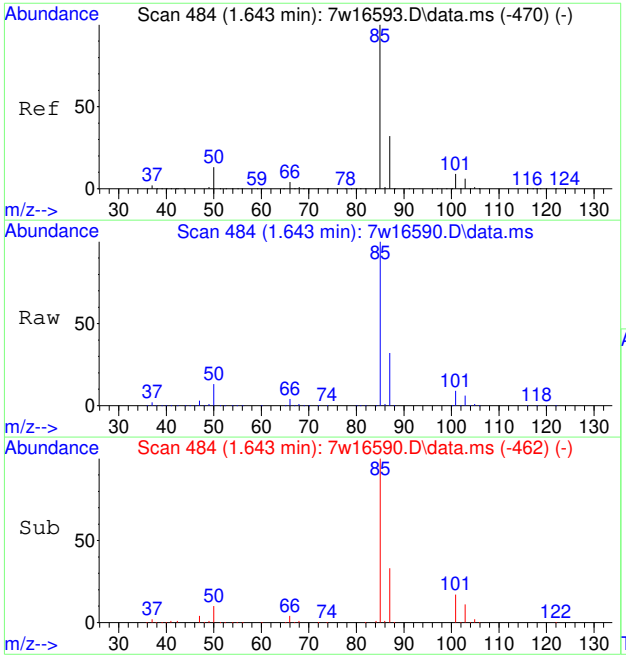


#5
CHLOROTRIFLUOROETHENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:116 Resp: 161129

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	217.7	194.7	361.7

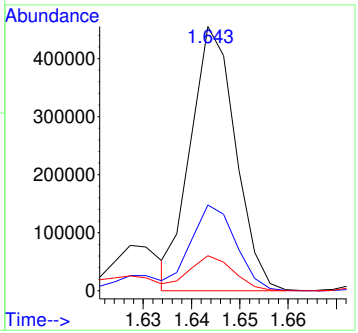


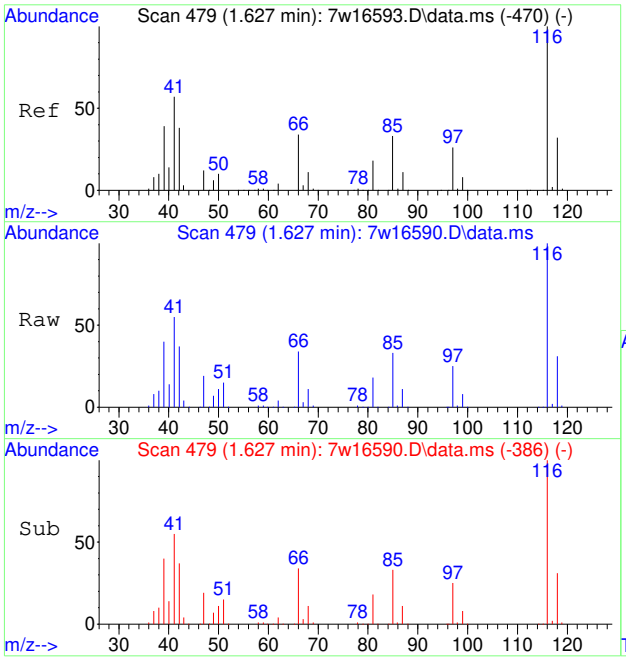


#6
DICHLORODIFLUOROMETHANE
Concen: 8.88 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 294067

Ion	Ratio	Lower	Upper
85	100		
87	39.2	23.1	42.9
50	23.1	12.1	22.5#

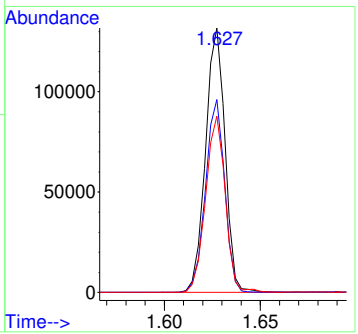


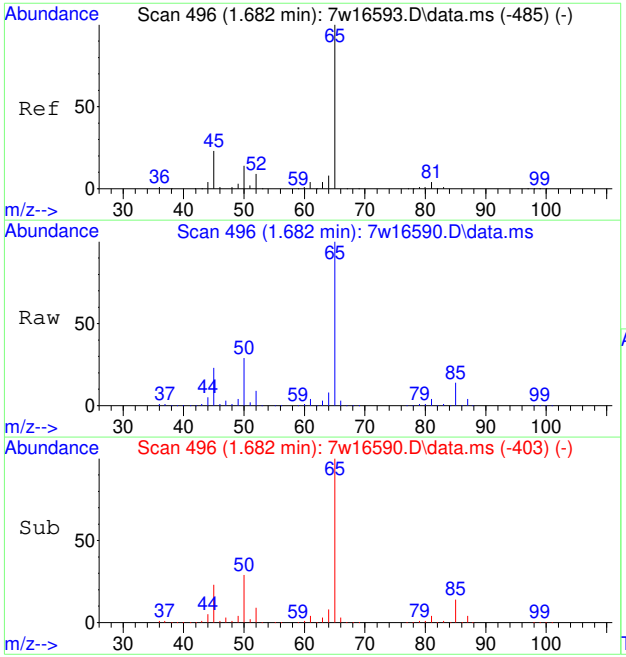


#7
PROPYLENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 92922

Ion	Ratio	Lower	Upper
41	100		
39	72.1	51.0	94.8
42	67.2	46.6	86.6

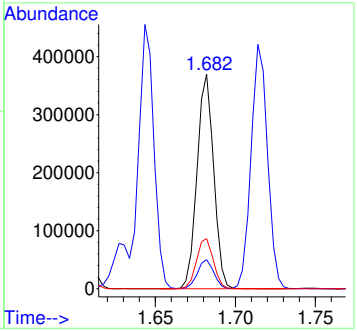


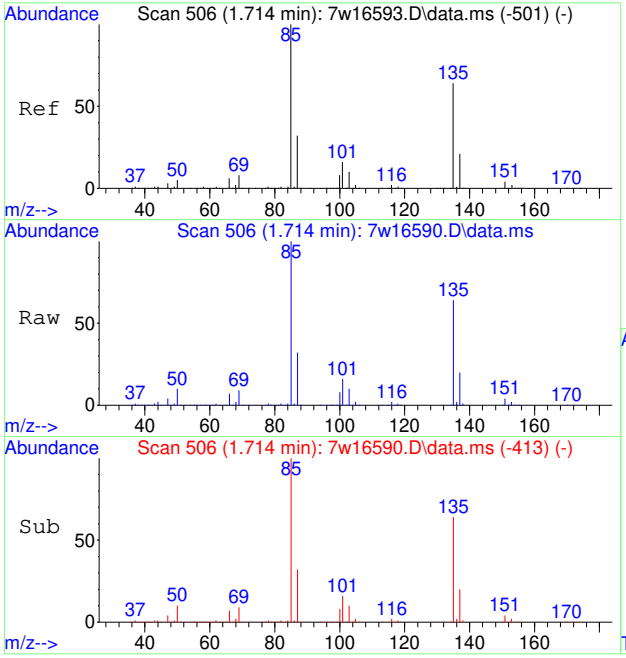


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.80 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 267066

Ion	Ratio	Lower	Upper
65	100		
85	13.4	9.7	17.9
45	24.1	17.0	31.6

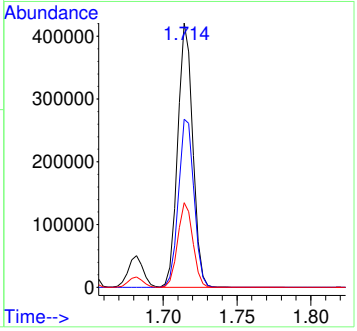


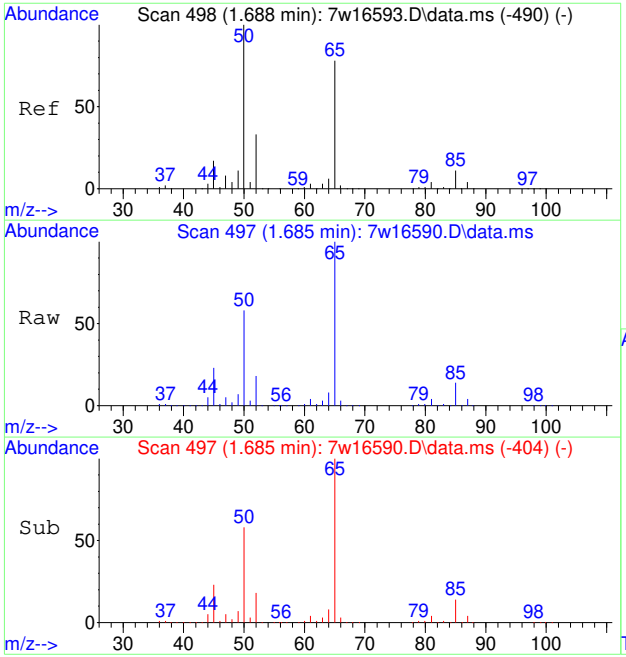


#9
FREON 114
Concen: 10.40 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 301155

Ion	Ratio	Lower	Upper
85	100		
135	65.9	61.3	113.9
87	32.3	23.2	43.0

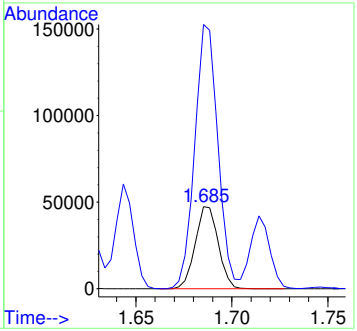


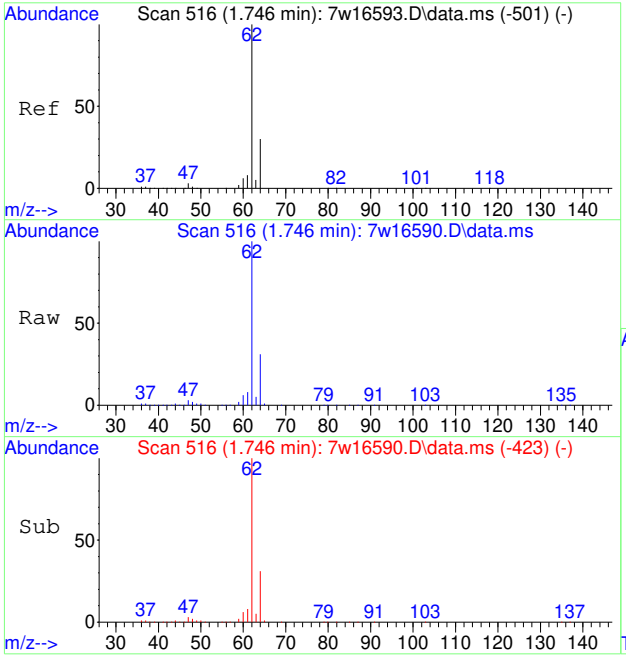


#10
CHLOROMETHANE
Concen: 10.60 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 39544

Ion	Ratio	Lower	Upper
52	100		
50	322.3	227.6	422.6

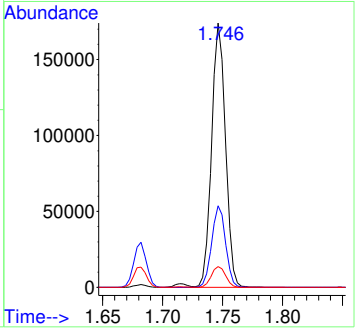


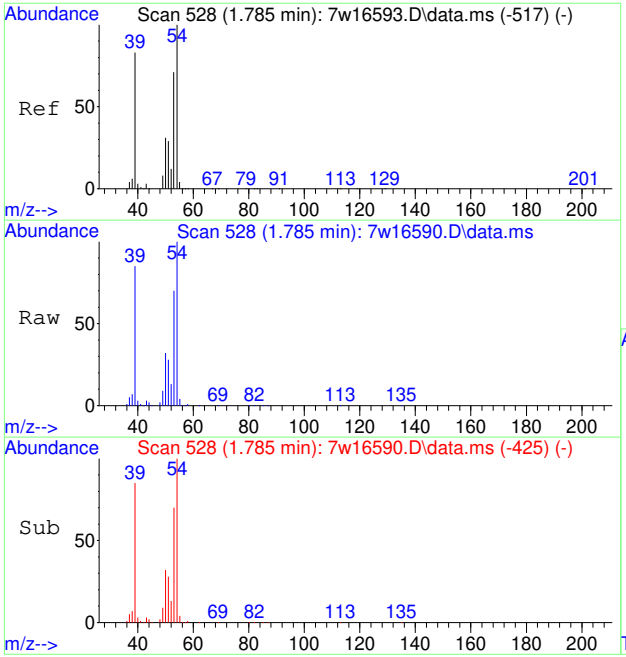


#11
VINYL CHLORIDE
Concen: 10.20 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 141282

Ion	Ratio	Lower	Upper
62	100		
64	30.5	21.6	40.2
61	8.1	5.7	10.7

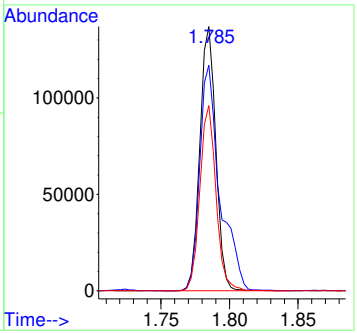


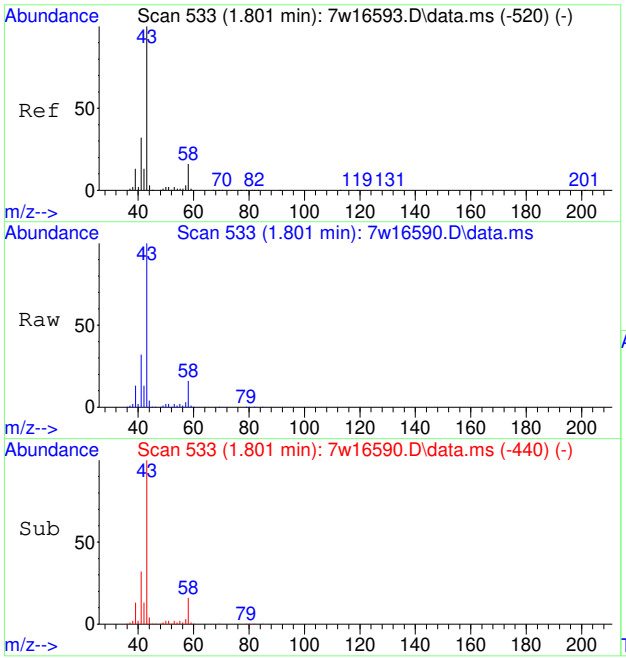


#12
1,3-BUTADIENE
Concen: 10.30 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 54 Resp: 110559

Ion	Ratio	Lower	Upper
54	100		
39	108.4	125.6	185.6#
53	70.9	40.7	100.7

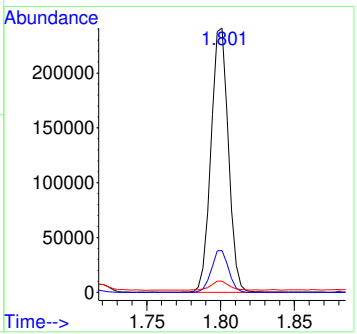


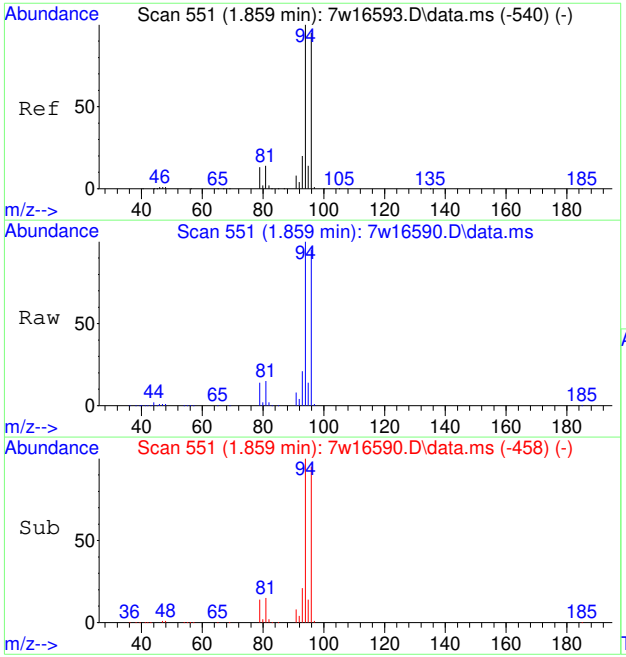


#13
N-BUTANE
Concen: 10.67 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 196391

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	3.7	3.0	5.6

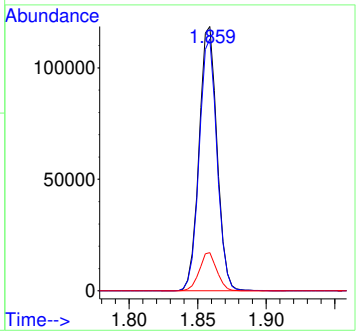


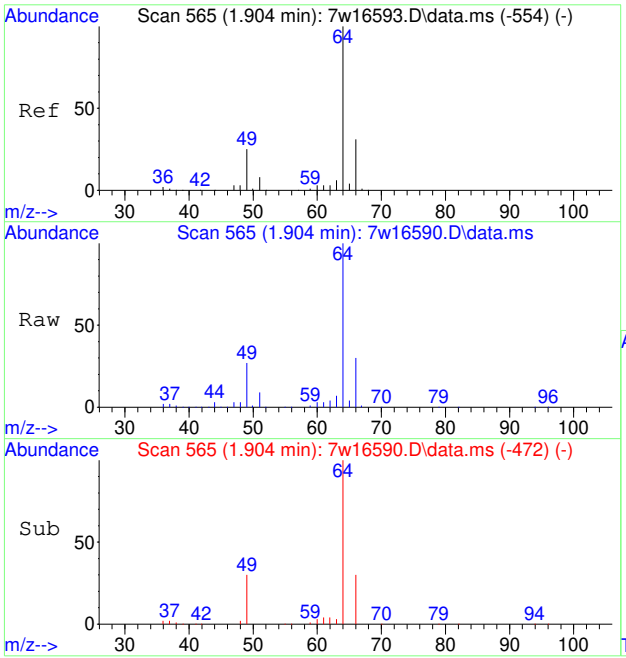


#14
BROMOMETHANE
Concen: 10.20 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 94 Resp: 107418

Ion	Ratio	Lower	Upper
94	100		
96	94.4	63.6	118.0
95	14.1	10.0	18.6

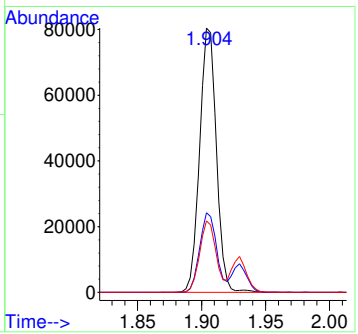


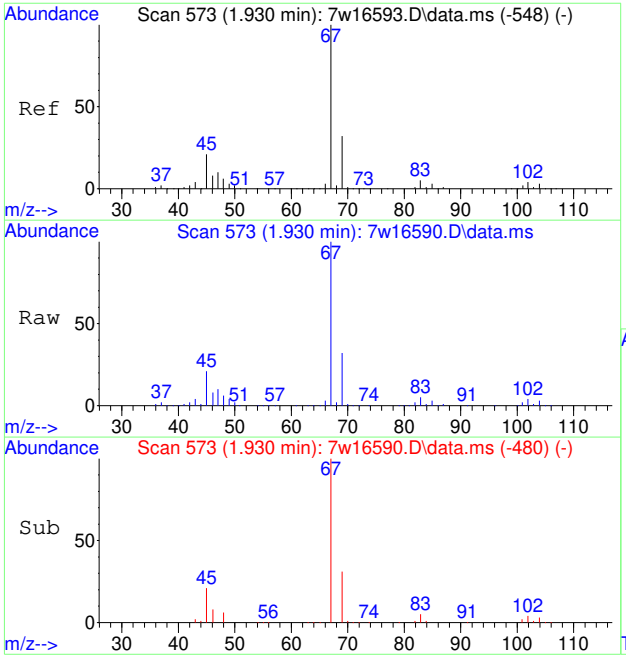


#15
CHLOROETHANE
Concen: 10.00 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 64 Resp: 73302

Ion	Ratio	Lower	Upper
64	100		
66	30.7	23.0	42.6
49	27.2	21.5	39.9

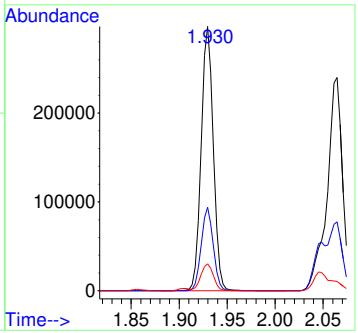


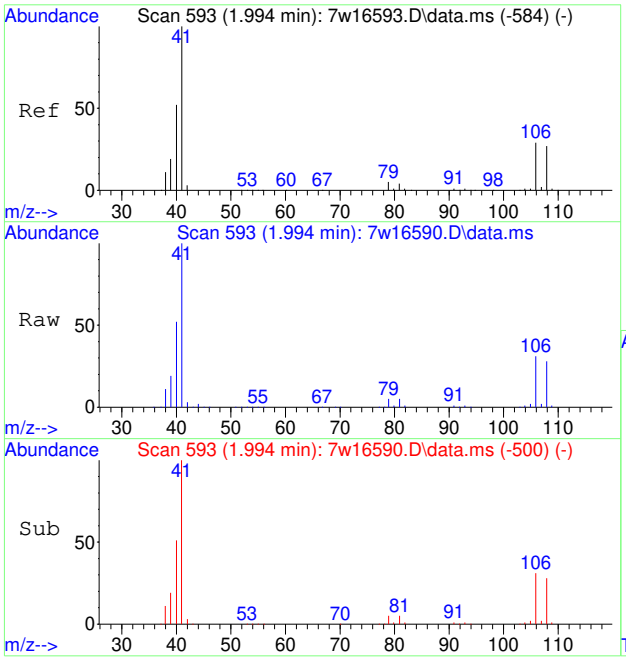


#16
DICHLOROFLUOROMETHANE
Concen: 10.00 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 261718

Ion	Ratio	Lower	Upper
67	100		
69	31.2	23.2	43.0
47	11.4	9.6	17.8

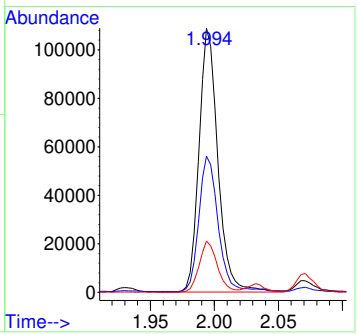


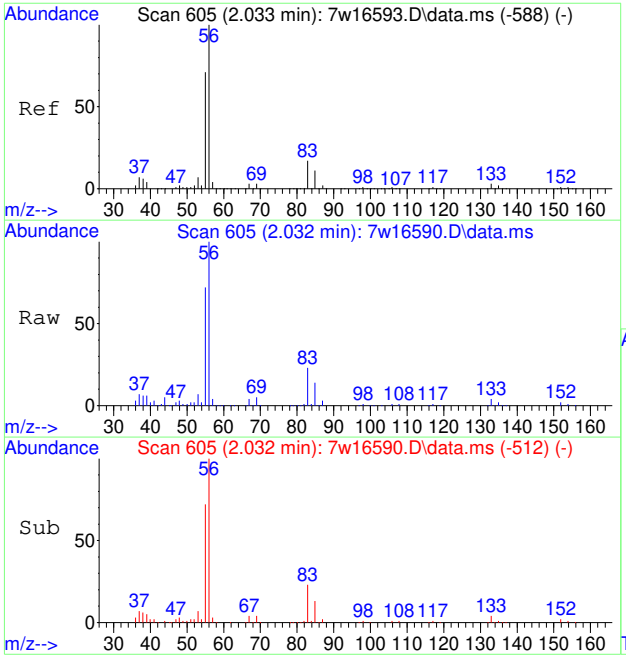


#17
ACETONITRILE
Concen: 9.70 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 111653

Ion	Ratio	Lower	Upper
41	100		
40	52.4	38.4	71.4
39	18.7	14.5	26.9

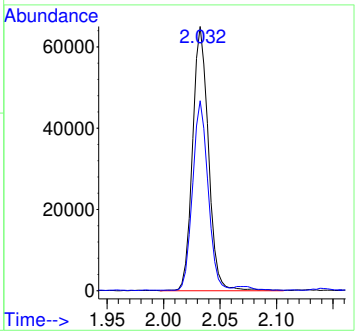


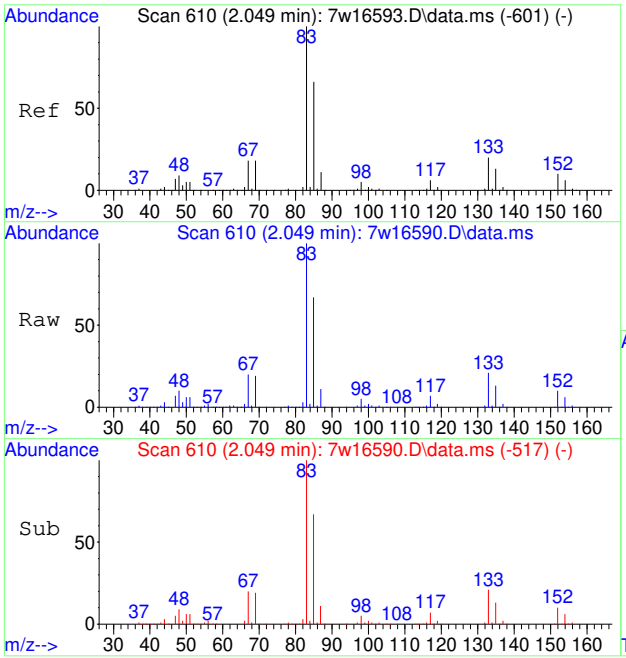


#18
ACROLEIN
Concen: 10.60 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 56 Resp: 63526

Ion	Ratio	Lower	Upper
56	100		
55	69.8	51.2	95.2

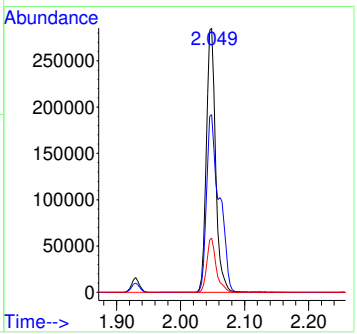


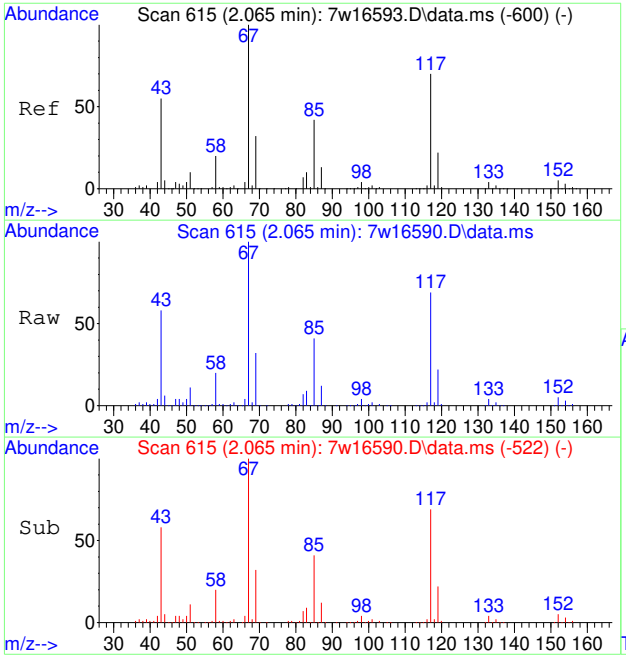


#19
FREON 123
Concen: 10.73 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 286896

Ion	Ratio	Lower	Upper
83	100		
85	92.7	65.7	121.9
133	21.0	19.9	36.9

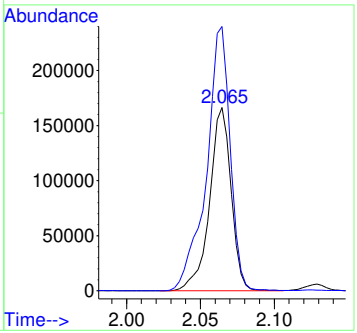


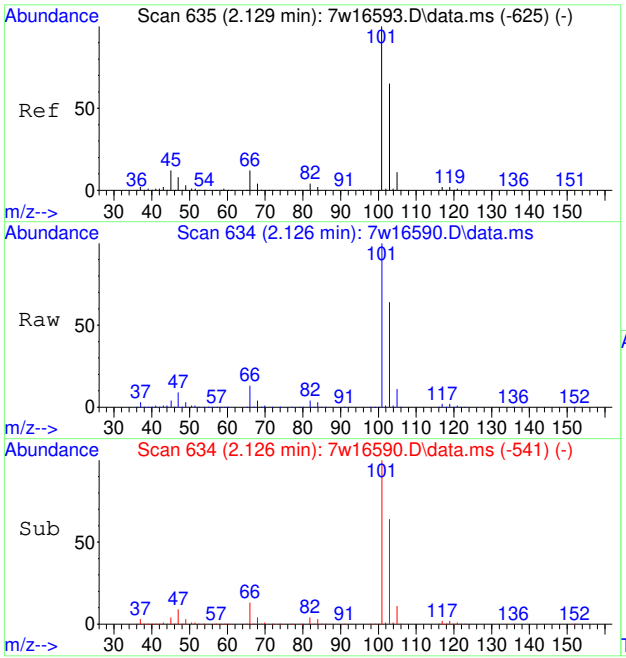


#20
FREON 123A
Concen: 10.70 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 168072

Ion	Ratio	Lower	Upper
117	100		
67	159.0	78.8	146.4#

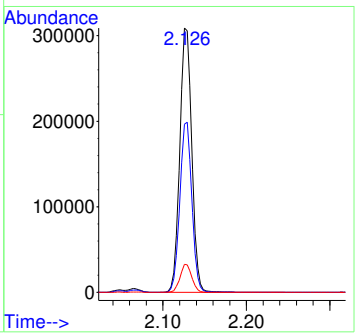


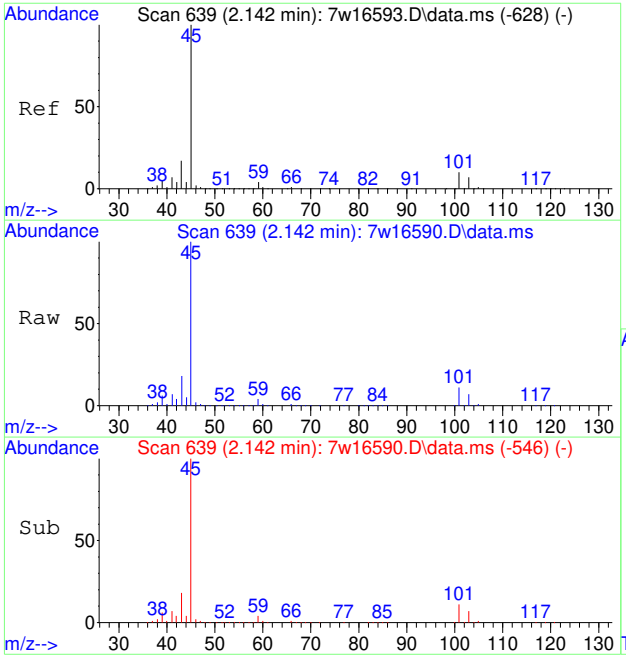


#21
TRICHLOROFLUOROMETHANE
Concen: 10.10 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:101 Resp: 307938

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.4	7.3	13.7

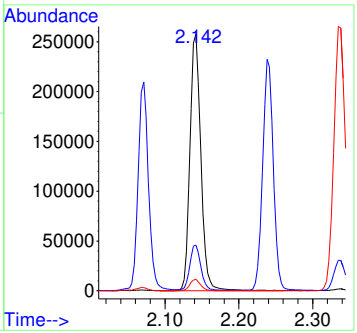


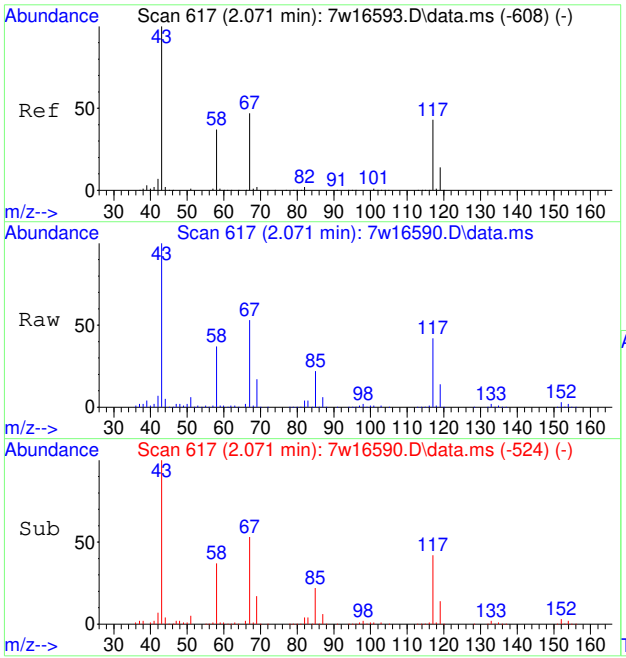


#22
ISOPROPYL ALCOHOL
Concen: 10.50 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 265396

Ion	Ratio	Lower	Upper
45	100		
43	17.9	17.1	31.9
59	4.4	3.1	5.8

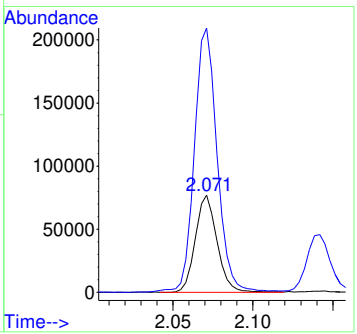


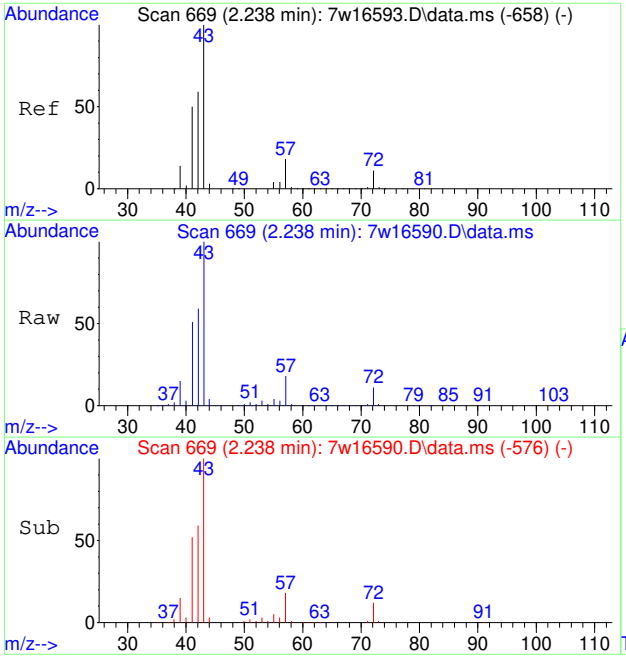


#23
ACETONE
Concen: 10.40 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 72855

Ion	Ratio	Lower	Upper
58	100		
43	283.7	254.0	471.6

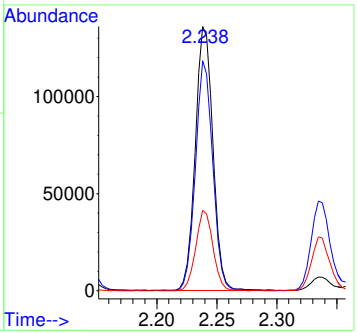


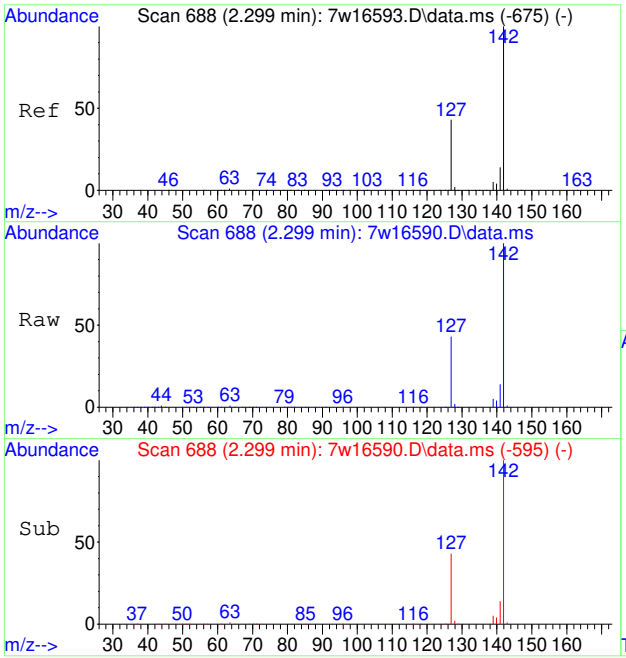


#24
PENTANE
Concen: 10.60 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 42 Resp: 138571

Ion	Ratio	Lower	Upper
42	100		
41	85.4	69.2	128.6
57	30.1	18.6	34.6

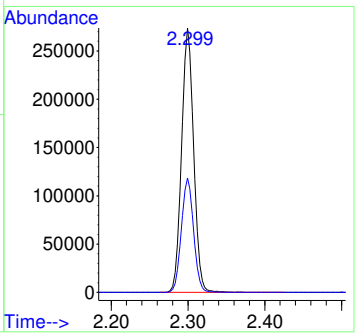


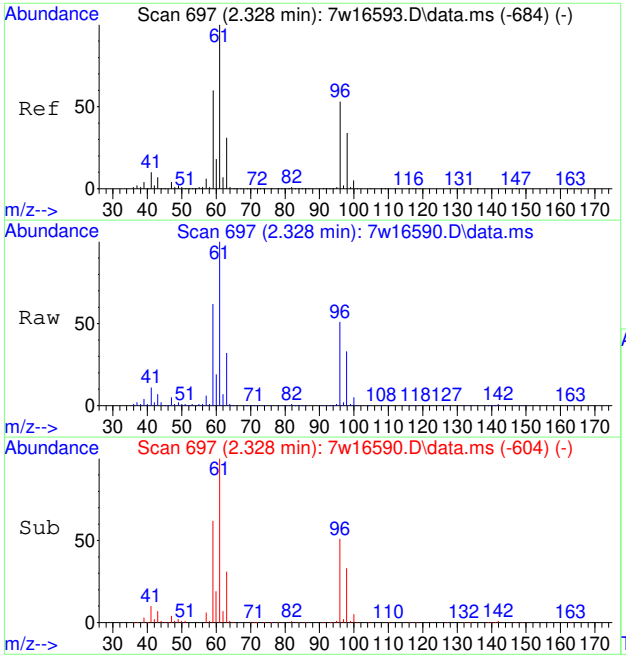


#25
IODOMETHANE
Concen: 10.70 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:142 Resp: 299236

Ion	Ratio	Lower	Upper
142	100		
127	43.7	32.1	59.7

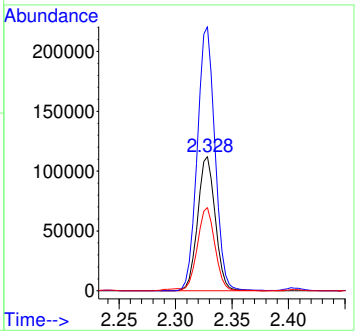


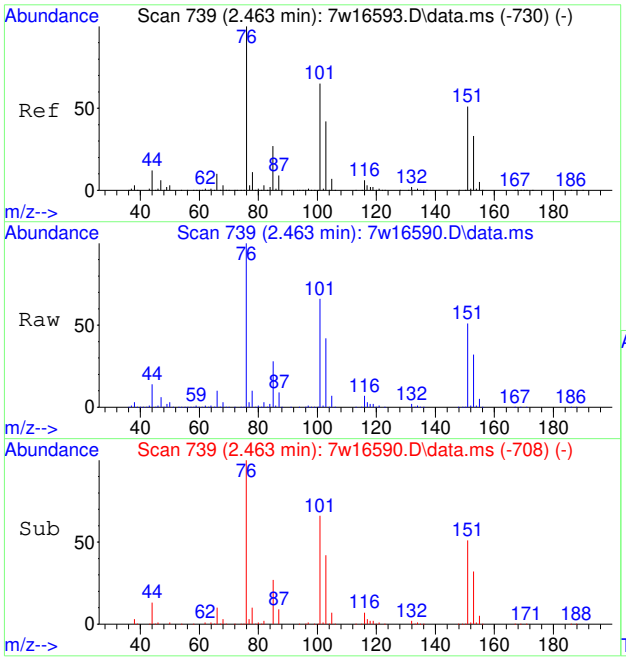


#26
1,1-DICHLOROETHYLENE
Concen: 10.70 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 121096

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	63.1	33.2	61.7#

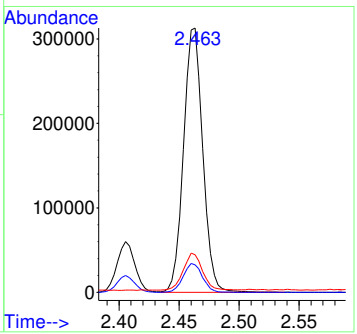


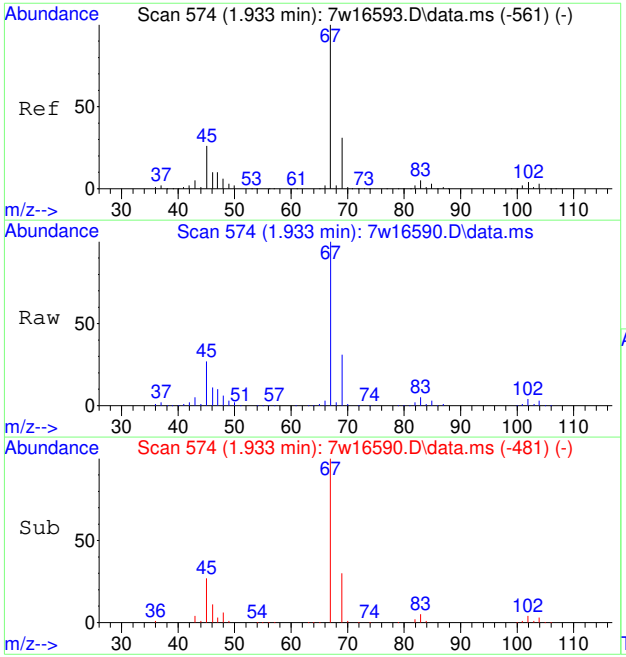


#27
CARBON DISULFIDE
Concen: 10.60 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 348427

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	14.6	13.0	24.1

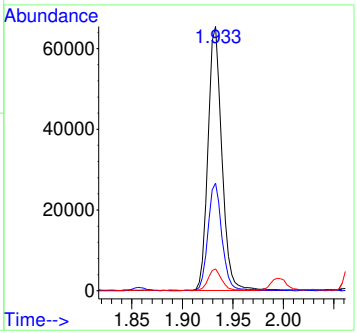


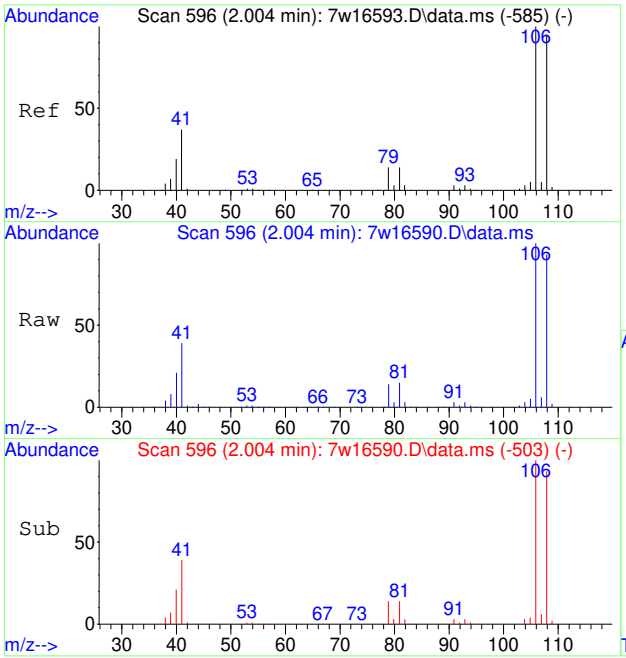


#28
ETHANOL
Concen: 9.70 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 62817

Ion	Ratio	Lower	Upper
45	100		
46	41.5	29.7	55.1
42	8.1	7.3	13.5

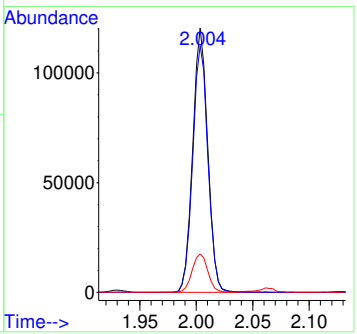


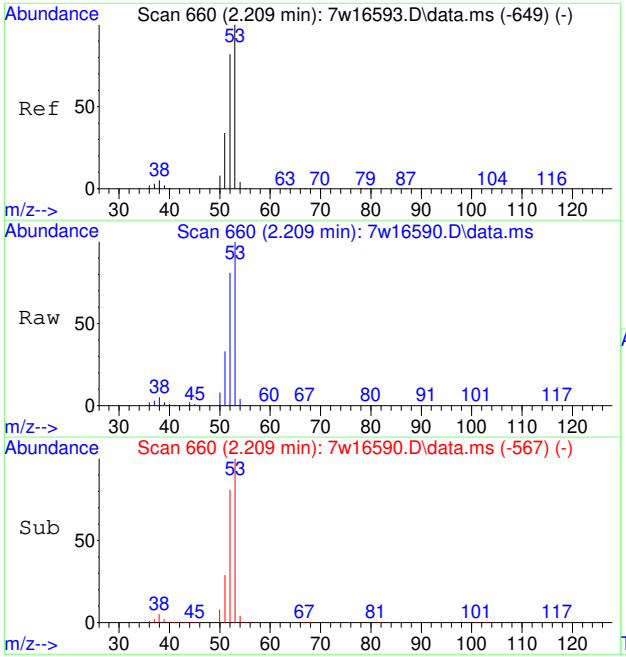


#29
BROMOETHENE
Concen: 10.10 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:106 Resp: 111170

Ion	Ratio	Lower	Upper
106	100		
108	94.4	68.3	126.8
81	15.2	14.7	27.3

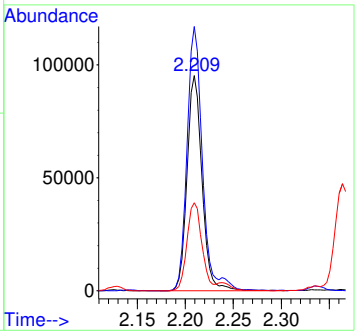


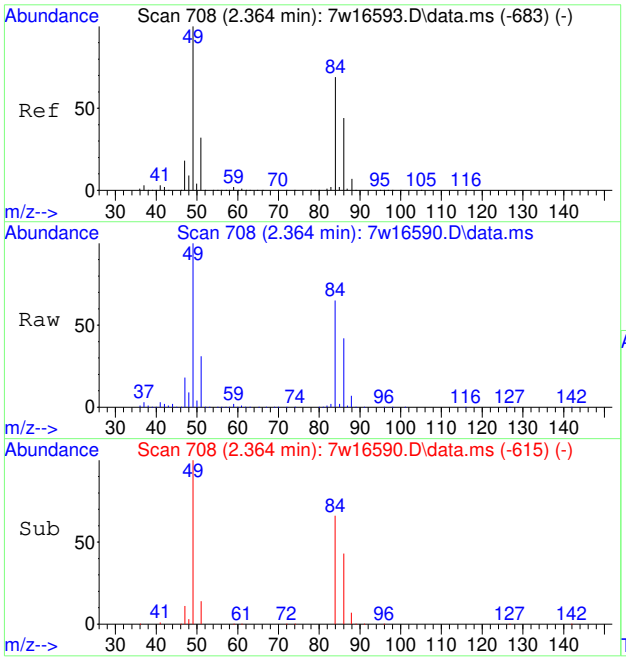


#30
ACRYLONITRILE
Concen: 10.70 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 103886

Ion	Ratio	Lower	Upper
52	100		
53	126.0	86.3	160.3
51	44.7	33.6	62.4

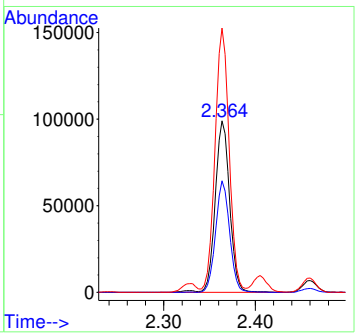


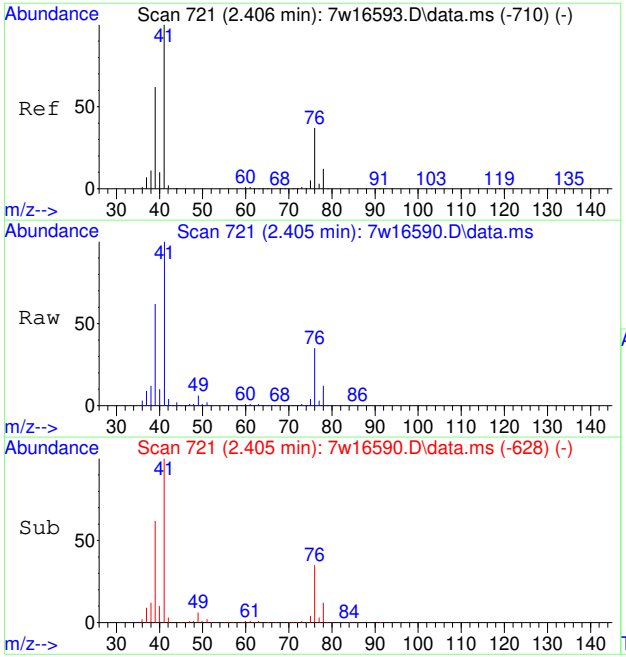


#31
METHYLENE CHLORIDE
Concen: 10.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 109559

Ion	Ratio	Lower	Upper
84	100		
86	63.3	44.9	83.5
49	156.4	79.7	148.1#

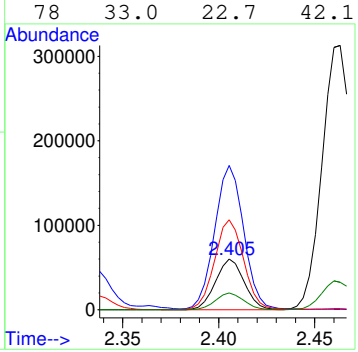


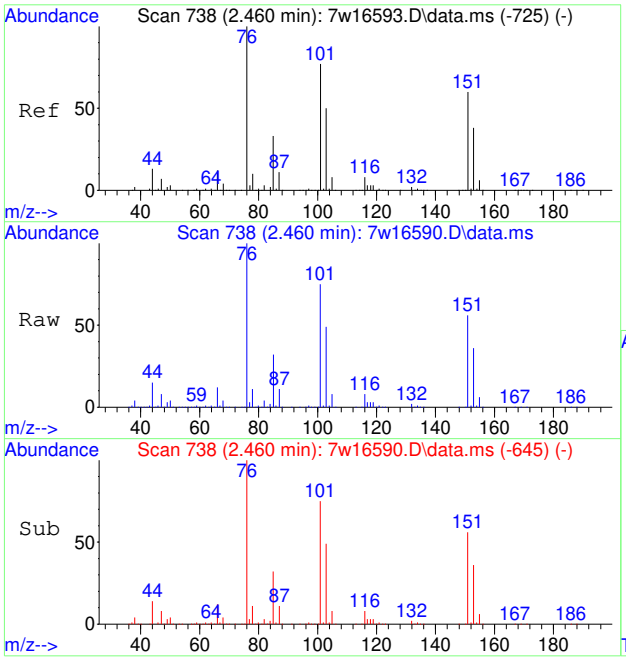


#32
3-CHLOROPROPENE
Concen: 10.20 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 62528

Ion	Ratio	Lower	Upper
76	100		
41	289.4	160.9	298.9
39	179.7	150.7	279.9
78	33.0	22.7	42.1

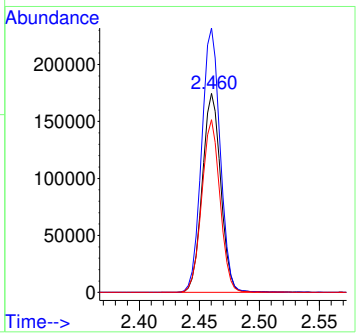


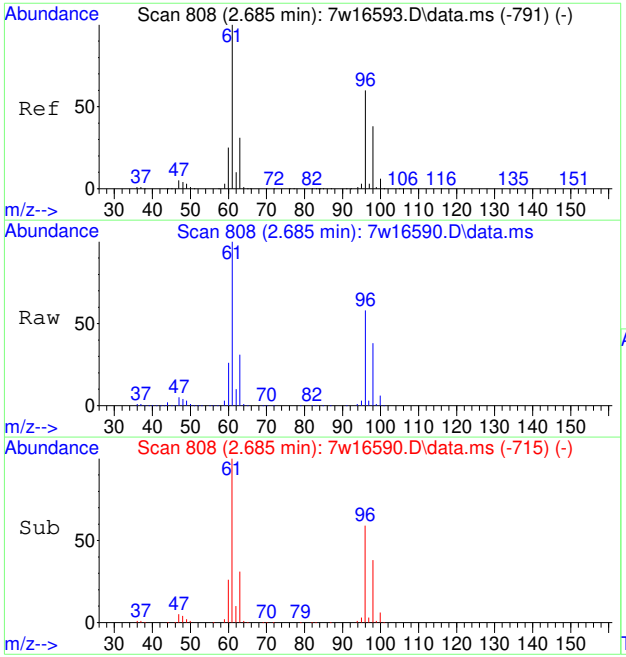


#33
FREON 113
Concen: 10.60 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:151 Resp: 187009

Ion	Ratio	Lower	Upper
151	100		
101	133.0	81.1	150.7
103	85.8	51.4	95.4

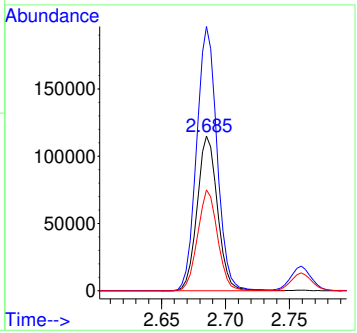


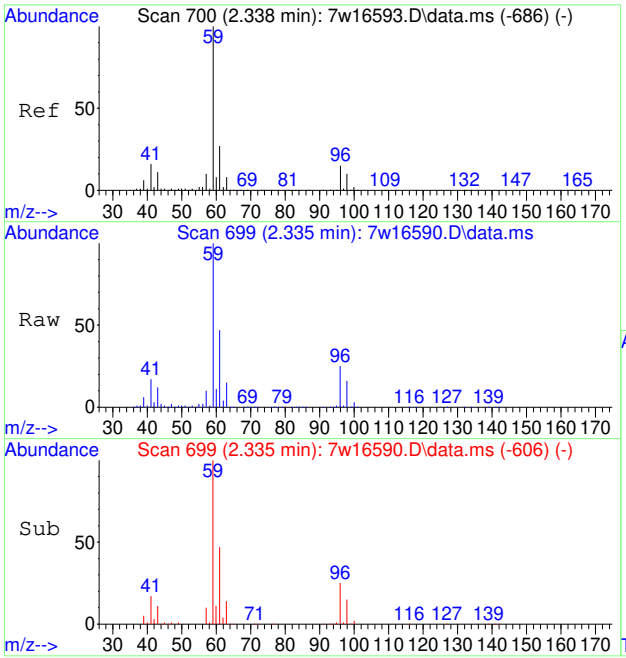


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.20 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 127301

Ion	Ratio	Lower	Upper
96	100		
61	170.8	78.5	145.9#
98	64.2	46.5	86.3

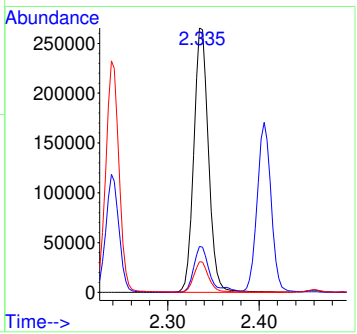


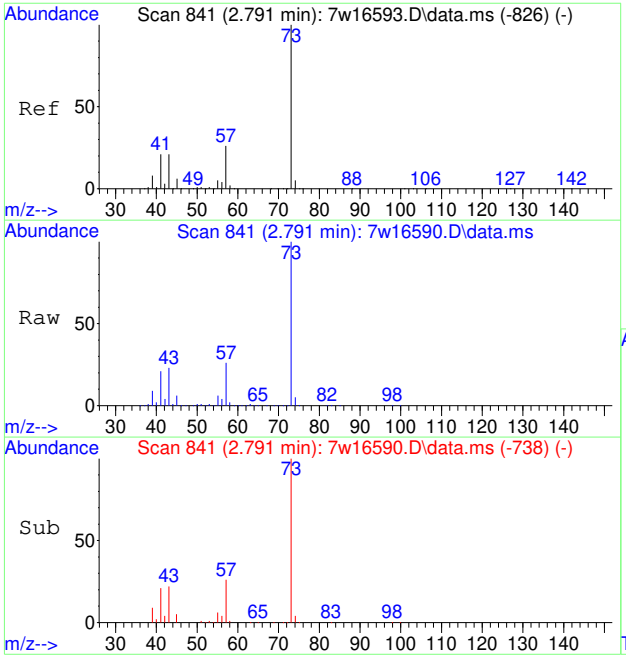


#35
TERTIARY BUTYL ALCOHOL
Concen: 9.59 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 59 Resp: 296206

Ion	Ratio	Lower	Upper
59	100		
41	18.4	15.3	28.5
43	11.4	12.3	22.9#

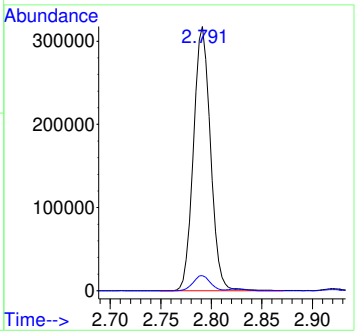


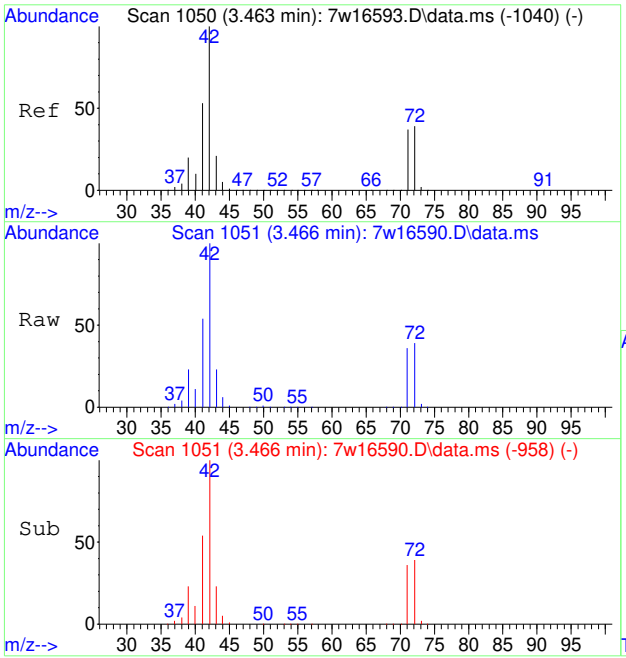


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.49 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 73 Resp: 372073

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

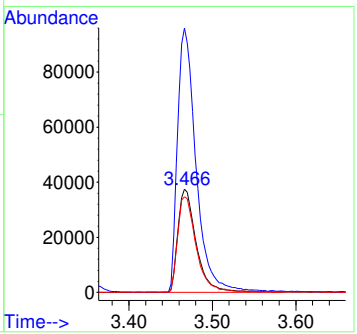


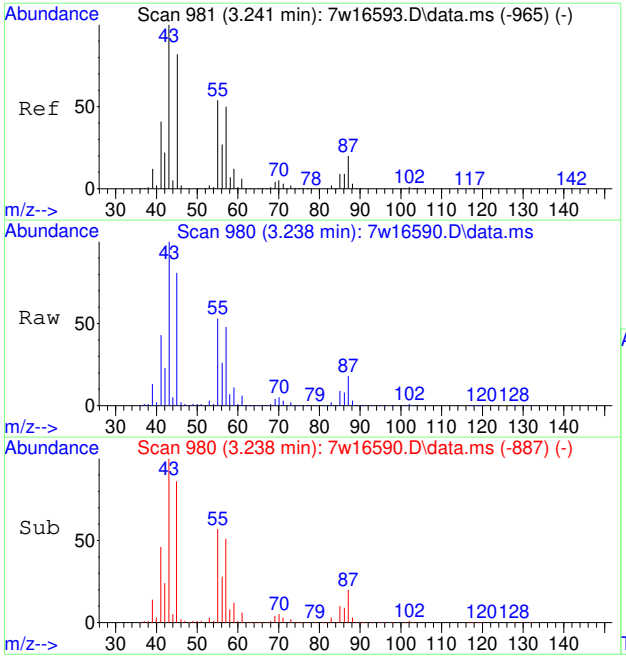


#37
TETRAHYDROFURAN
Concen: 9.70 PPBV
RT: 3.466 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 57483

Ion	Ratio	Lower	Upper
72	100		
42	257.5	153.0	284.2
71	94.0	62.7	116.5

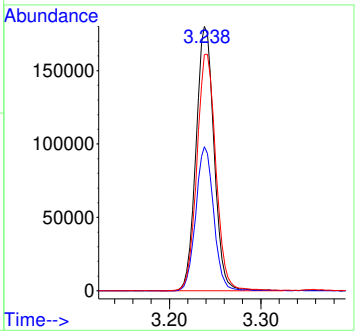


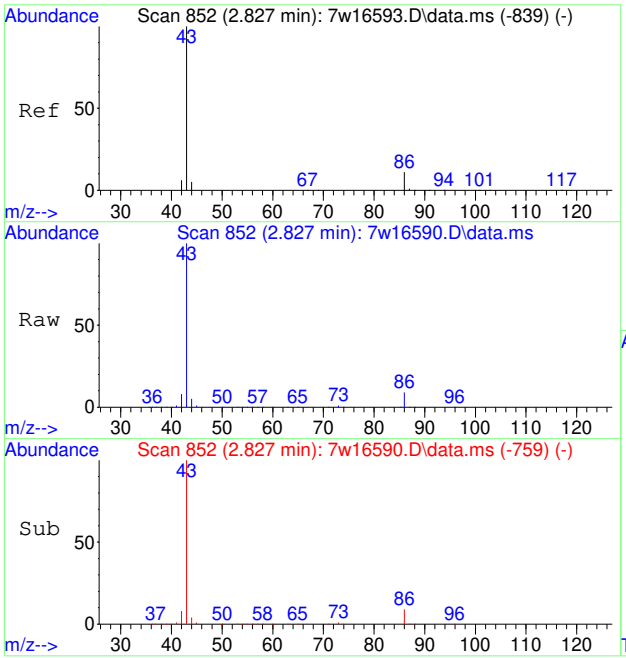


#38
HEXANE
Concen: 10.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 246511

Ion	Ratio	Lower	Upper
57	100		
56	54.3	37.3	69.3
41	94.2	86.7	161.1

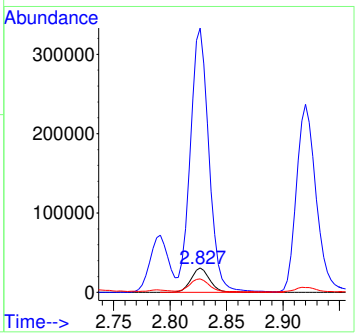


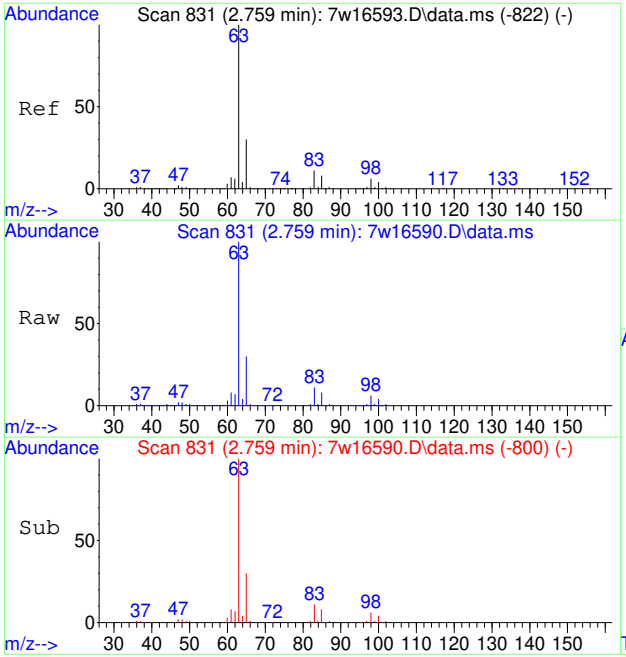


#39
VINYL ACETATE
Concen: 10.20 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 86 Resp: 35168

Ion	Ratio	Lower	Upper
86	100		
43	1083.8	667.9	1240.3
44	56.4	32.7	60.7

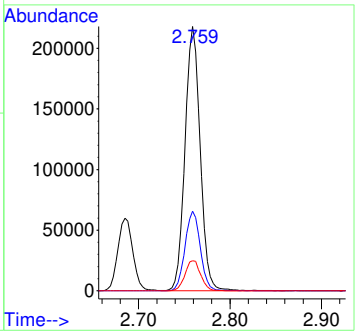


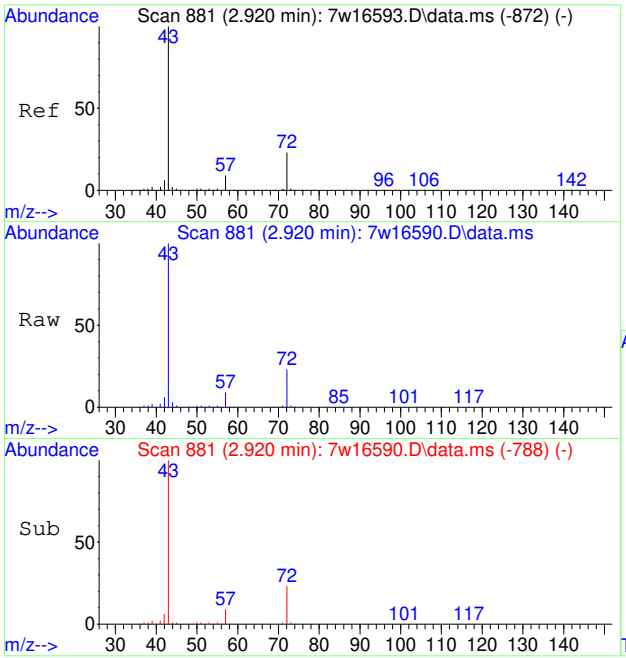


#40
1,1-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 250914

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.8	40.6
83	11.9	10.6	19.6

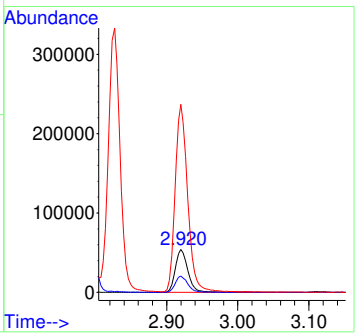


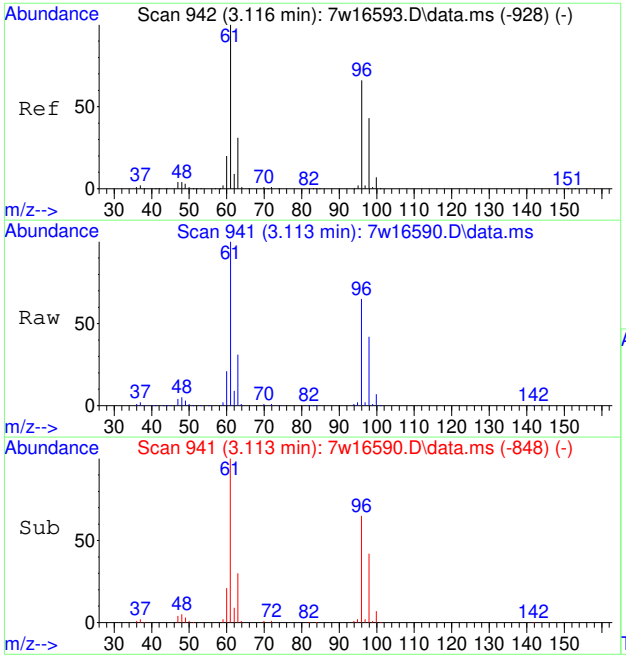


#41
METHYL ETHYL KETONE
Concen: 10.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 65983

Ion	Ratio	Lower	Upper
72	100		
57	38.4	20.3	37.7#
43	442.0	282.8	525.2

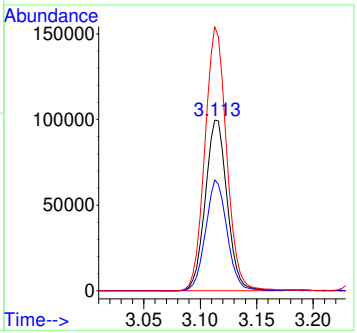


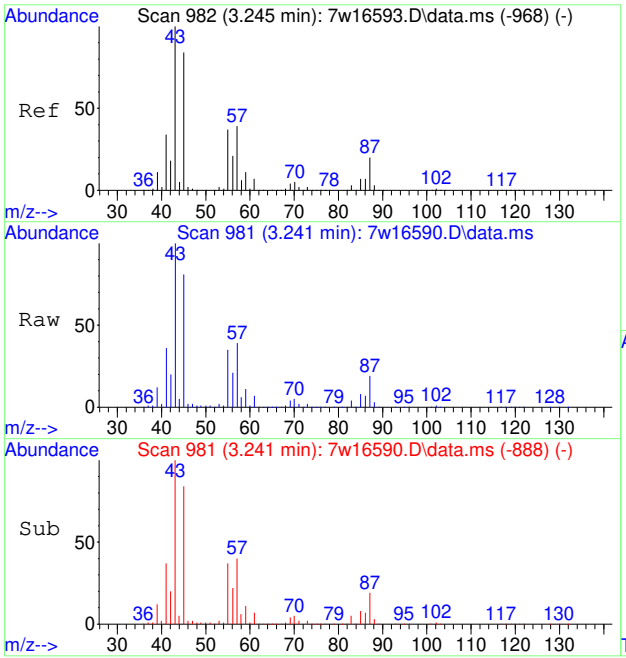


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.34 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 134402

Ion	Ratio	Lower	Upper
96	100		
98	63.9	46.8	86.8
61	153.3	78.3	145.5#

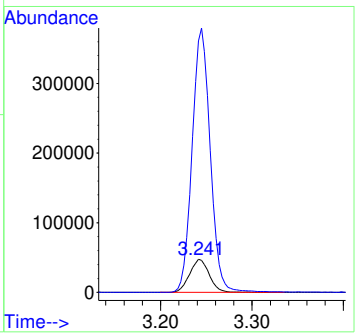


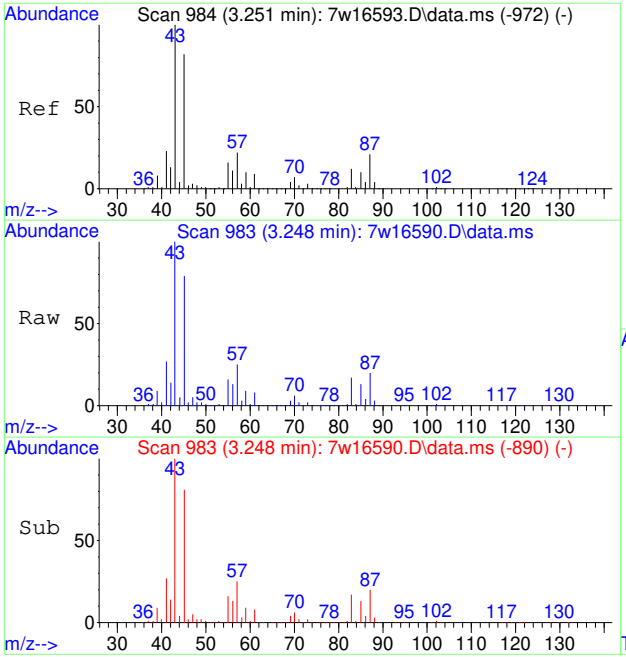


#43
DIISOPROPYL ETHER
Concen: 10.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 59 Resp: 70916

Ion	Ratio	Lower	Upper
59	100		
45	739.4	532.1	988.1

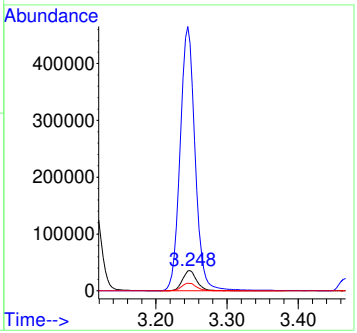


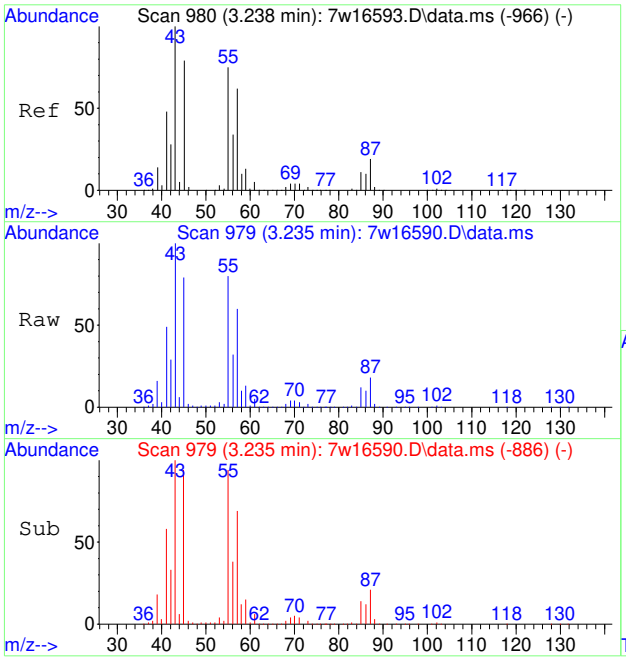


#44
ETHYL ACETATE
Concen: 10.49 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 61 Resp: 50059

Ion	Ratio	Lower	Upper
61	100		
43	1364.9	1127.5	2093.9
88	39.4	36.2	67.2

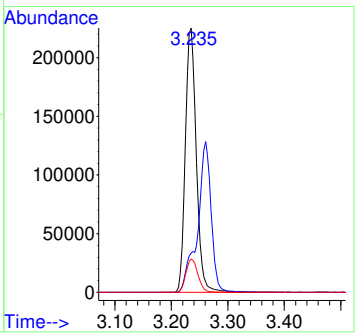


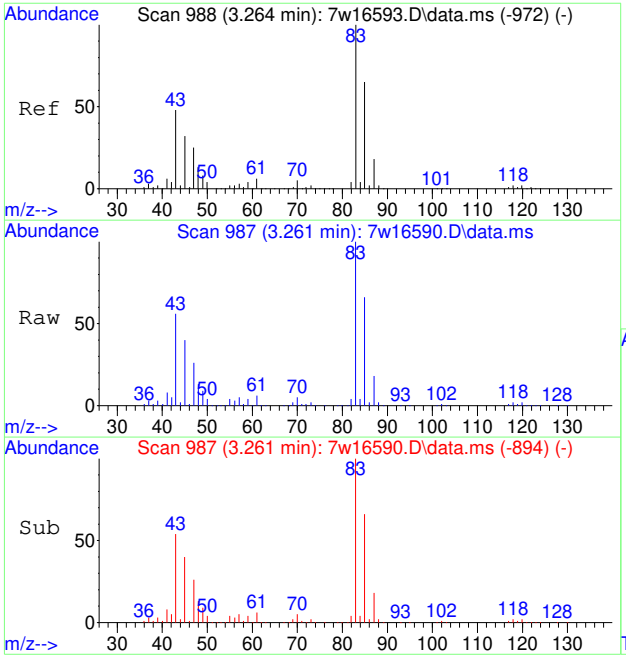


#45
METHYL ACRYLATE
Concen: 10.50 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 305217

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.8	9.2	17.0

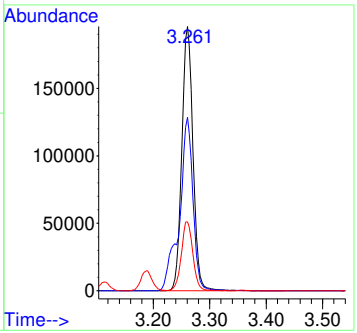


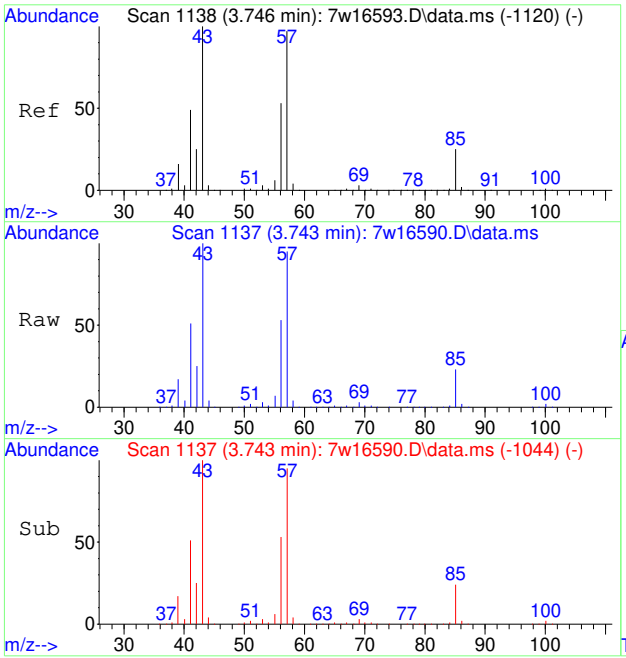


#46
CHLOROFORM
Concen: 10.50 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 269897

Ion	Ratio	Lower	Upper
83	100		
85	80.0	54.6	101.4
47	27.2	17.9	33.3

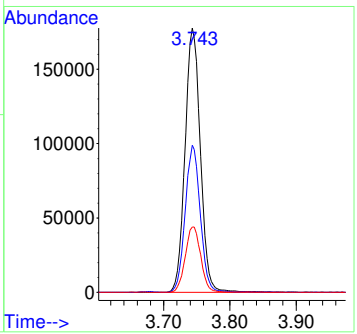


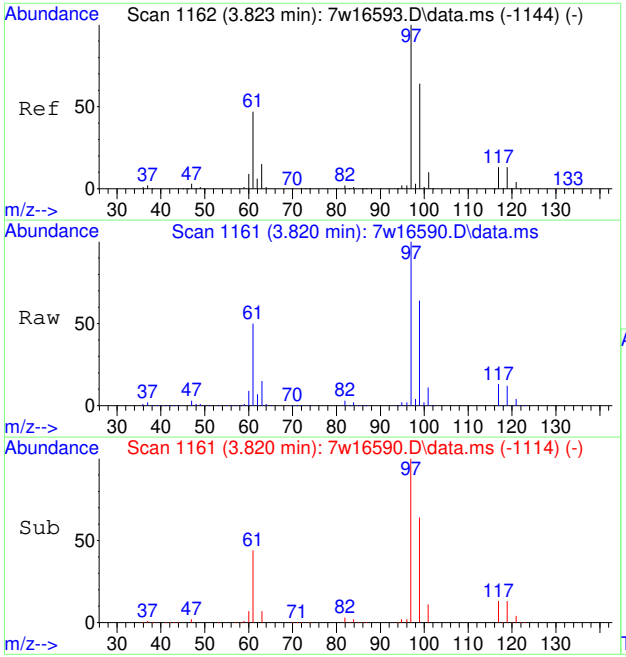


#47
2,4-DIMETHYLPENTANE
Concen: 10.70 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 286654

Ion	Ratio	Lower	Upper
57	100		
56	54.8	39.2	72.8
85	25.0	24.1	44.7

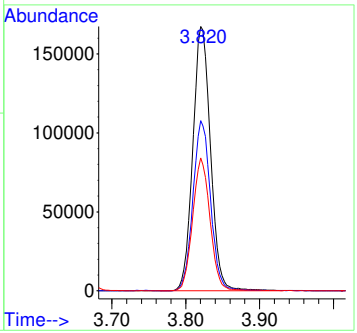


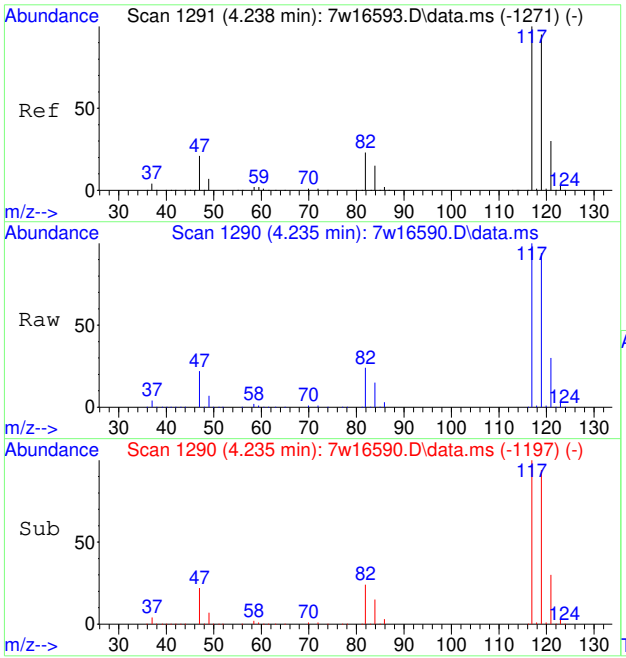


#48
1,1,1-TRICHLOROETHANE
Concen: 10.38 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 97 Resp: 278334

Ion	Ratio	Lower	Upper
97	100		
99	64.3	44.9	83.5
61	49.6	28.6	53.0

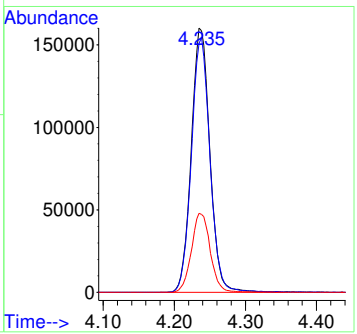


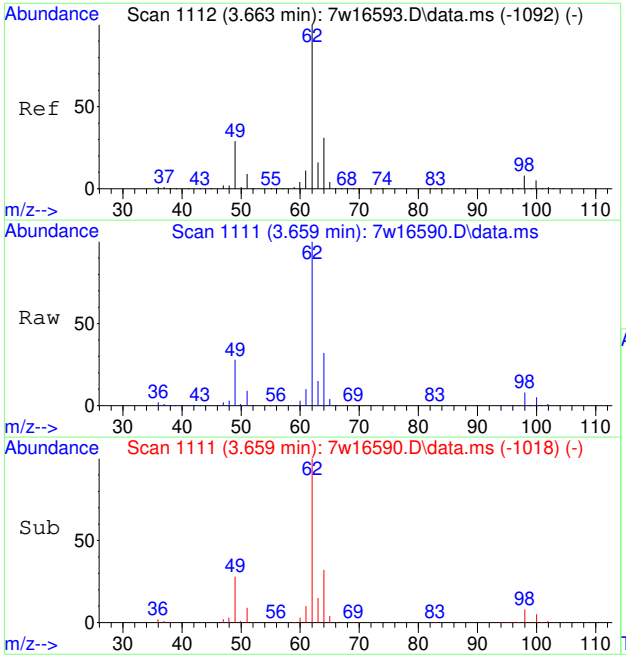


#49
CARBON TETRACHLORIDE
Concen: 10.20 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 291854

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

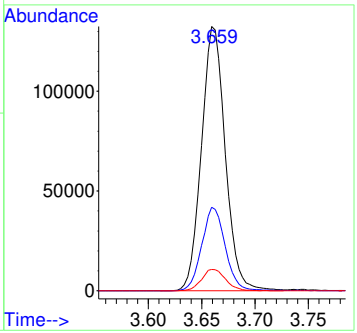


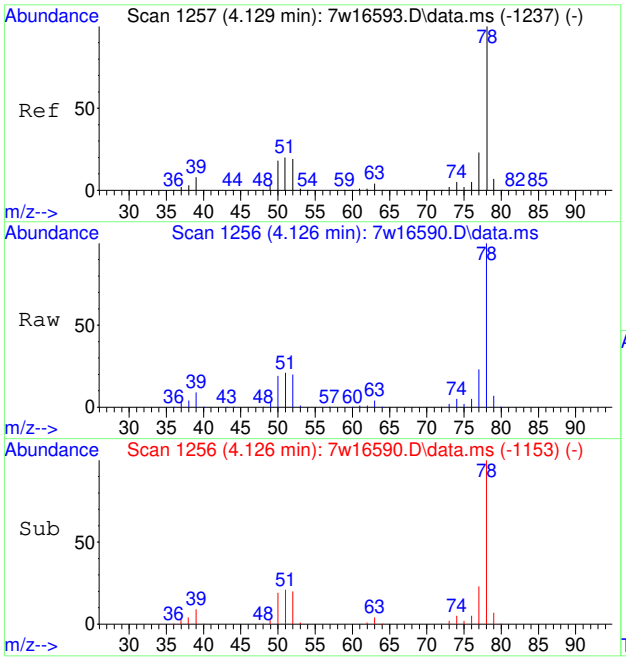


#50
1,2-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 205888

Ion	Ratio	Lower	Upper
62	100		
64	31.2	22.5	41.7
98	8.3	6.8	12.6

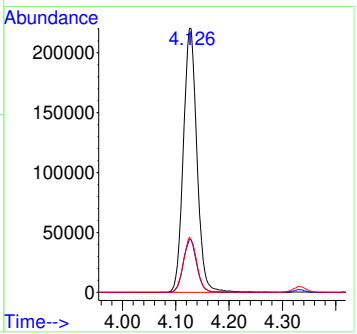


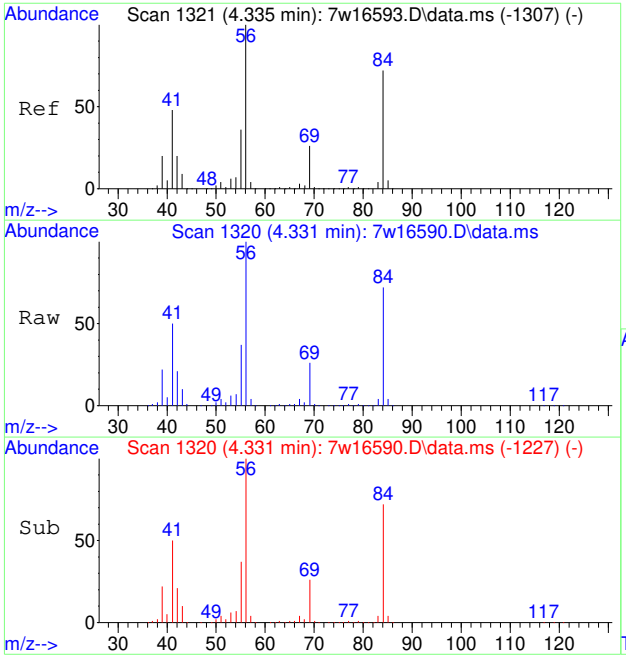


#51
BENZENE
Concen: 10.41 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 78 Resp: 391334

Ion	Ratio	Lower	Upper
78	100		
52	19.9	0.0	44.6
51	20.6	0.0	47.3

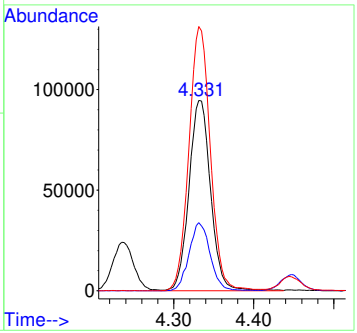


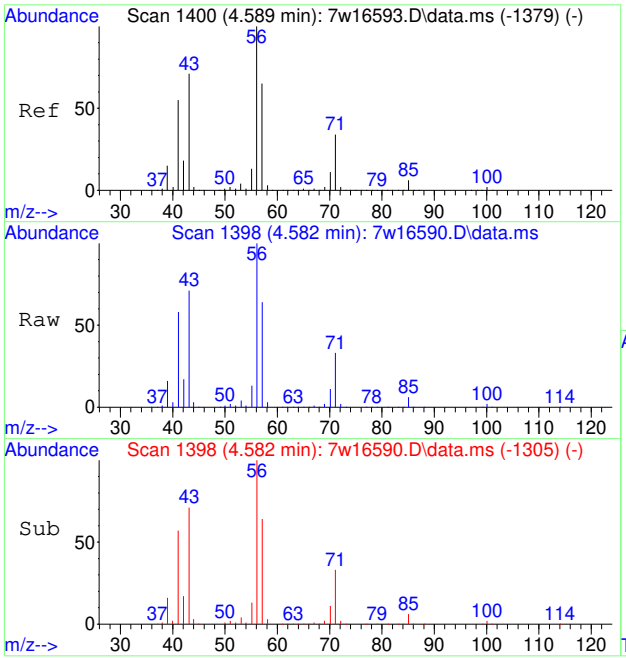


#53
CYCLOHEXANE
Concen: 10.40 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 177560

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	137.7	70.2	130.4#

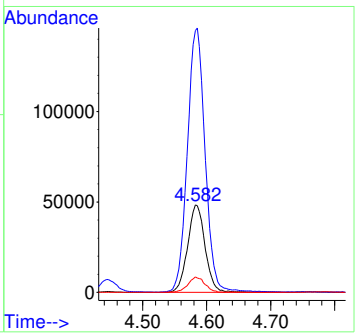


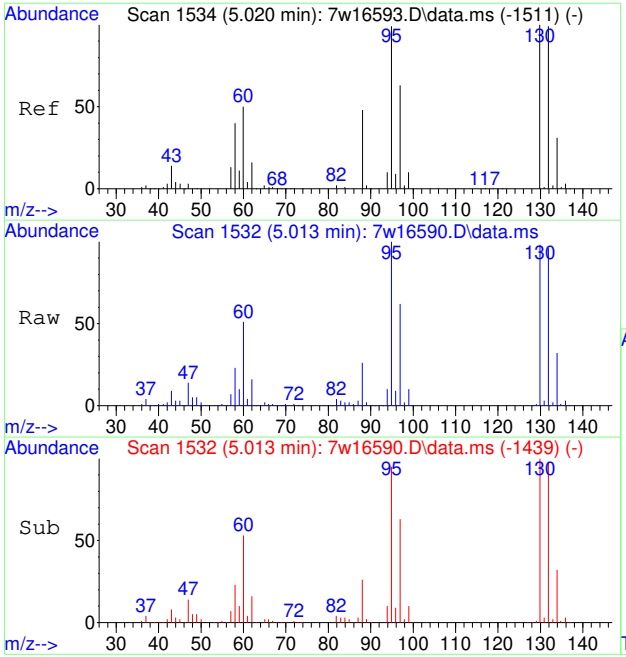


#54
2,3-DIMETHYLPENTANE
Concen: 10.60 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 71 Resp: 92078

Ion	Ratio	Lower	Upper
71	100		
56	304.6	171.4	318.4
85	17.4	12.6	23.4

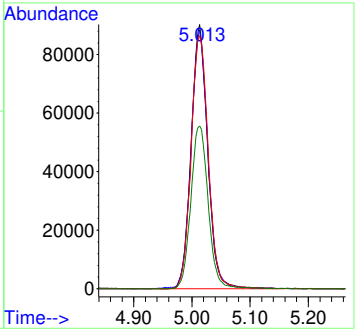


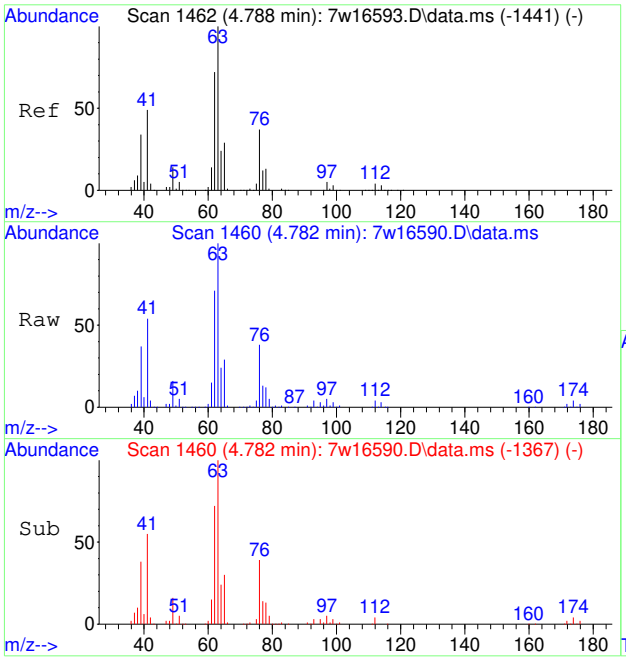


#55
TRICHLOROETHENE
Concen: 9.90 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 95 Resp: 180016

Ion	Ratio	Lower	Upper
95	100		
130	99.2	85.9	159.5
132	99.1	79.4	147.4
97	64.3	45.0	83.6

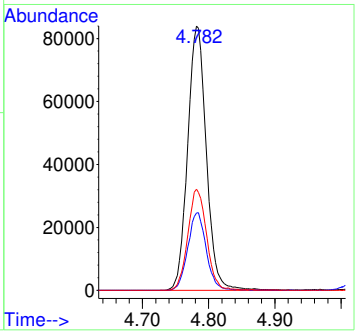


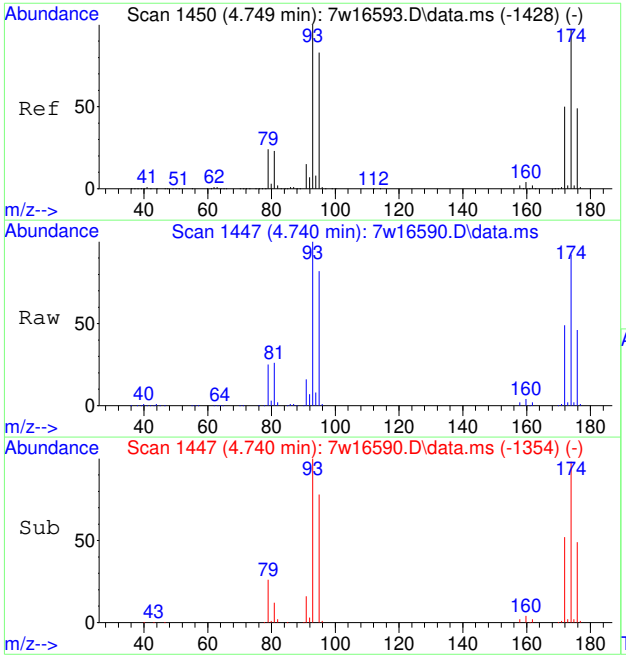


#56
1,2-DICHLOROPROPANE
Concen: 10.30 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 164997

Ion	Ratio	Lower	Upper
63	100		
65	29.3	22.6	42.0
76	38.7	31.8	59.0

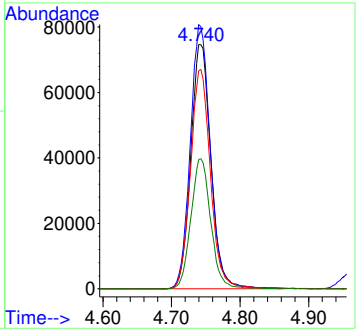


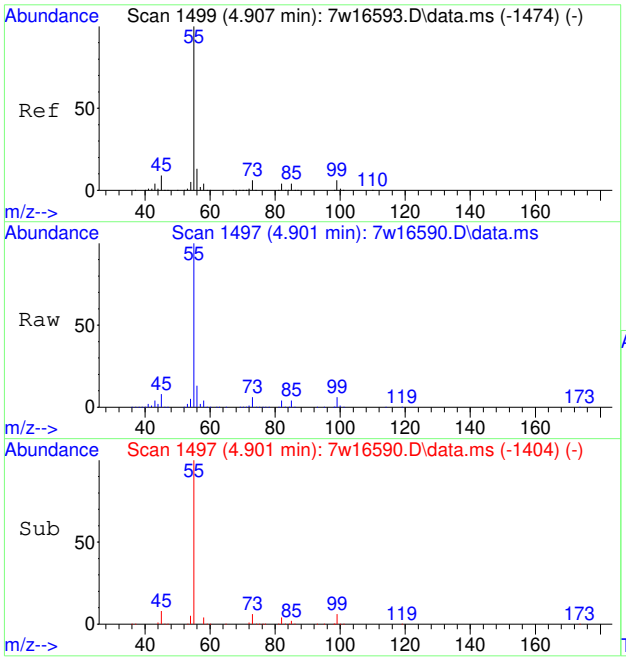


#57
DIBROMOMETHANE
Concen: 10.28 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:174 Resp: 152742

Ion	Ratio	Lower	Upper
174	100		
93	107.6	67.3	125.1
95	89.1	56.8	105.6
172	52.3	36.3	67.5

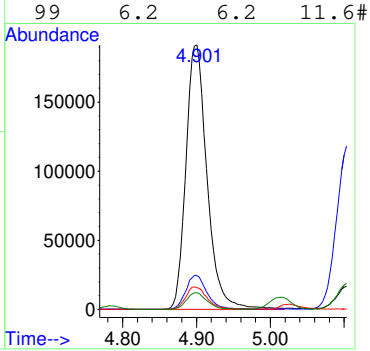


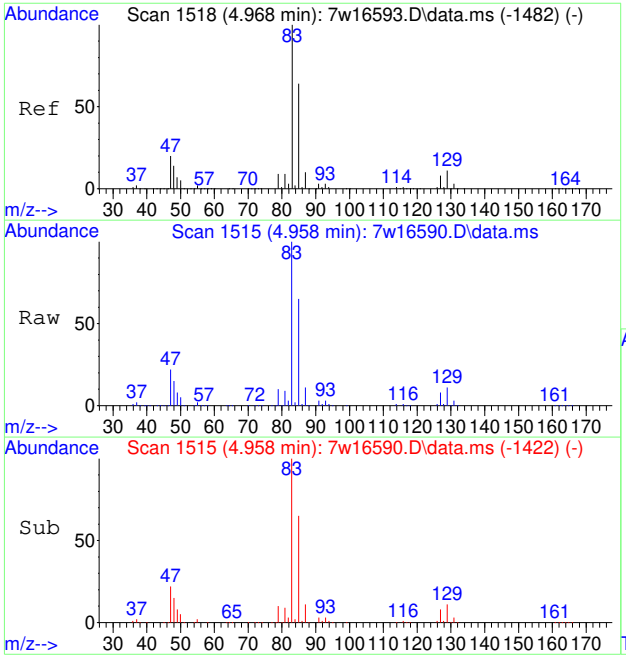


#58
ETHYL ACRYLATE
Concen: 10.50 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 381569

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.7	6.6	12.2
99	6.2	6.2	11.6#

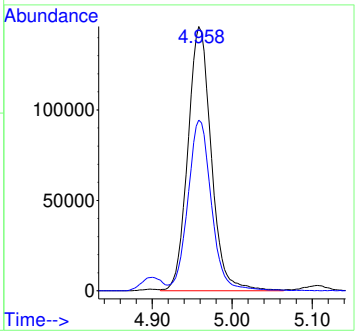


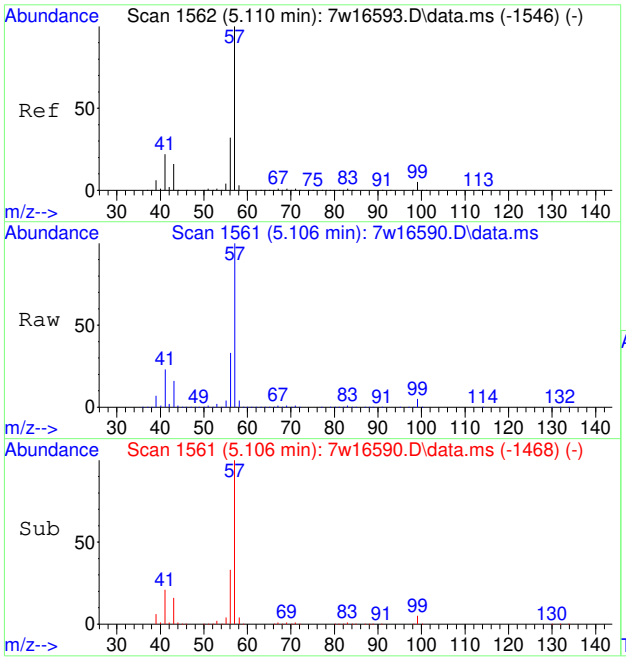


#59
BROMODICHLOROMETHANE
Concen: 9.90 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 297999

Ion	Ratio	Lower	Upper
83	100		
85	65.2	44.9	83.5

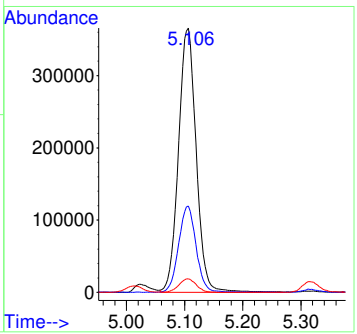


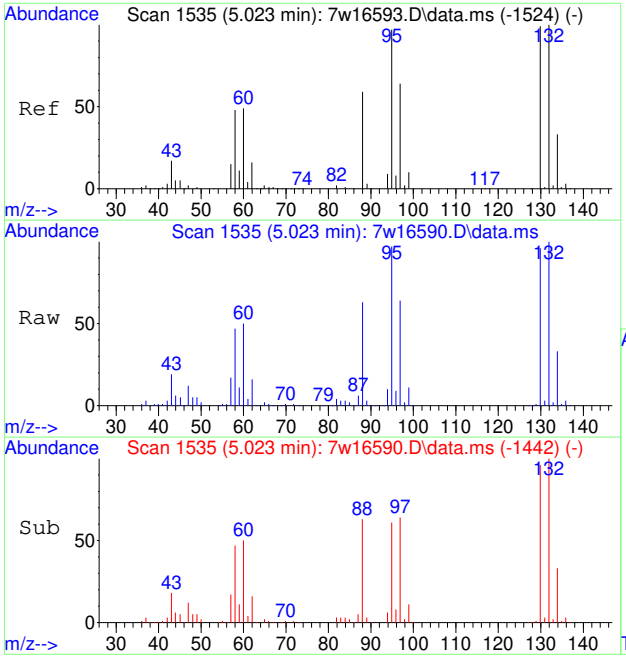


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.20 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 772831

Ion	Ratio	Lower	Upper
57	100		
56	32.3	24.4	45.2
99	5.2	5.2	9.6#

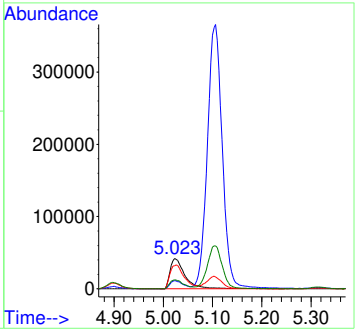


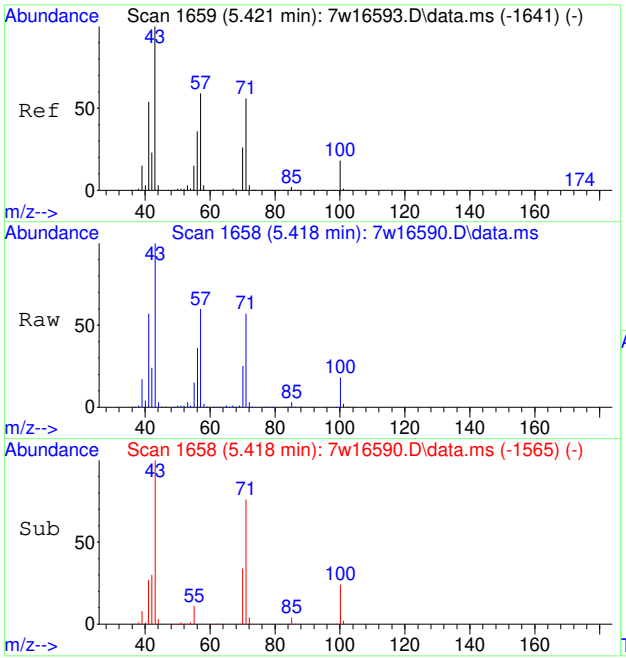


#61
1,4-DIOXANE
Concen: 9.94 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 88 Resp: 89212

Ion	Ratio	Lower	Upper
88	100		
57	23.8	13.1	24.3
58	74.9	39.1	72.5#
43	26.4	18.3	33.9

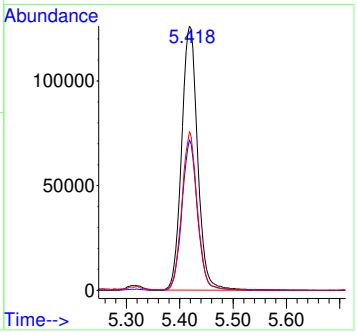


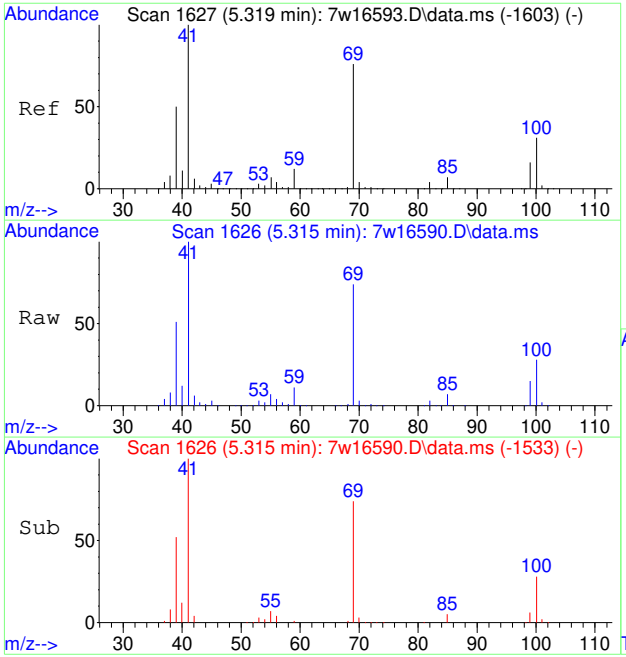


#62
HEPTANE
Concen: 10.40 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 263524

Ion	Ratio	Lower	Upper
43	100		
71	55.5	45.0	83.6
57	57.9	37.2	69.0

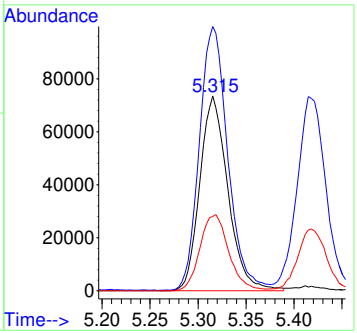


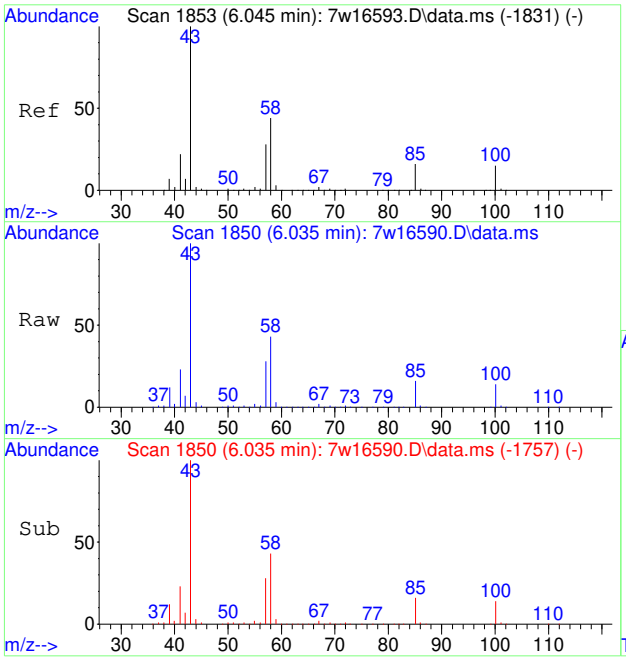


#63
METHYL METHACRYLATE
Concen: 10.30 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 149851

Ion	Ratio	Lower	Upper
69	100		
41	136.5	84.3	156.5
100	40.1	30.8	57.2

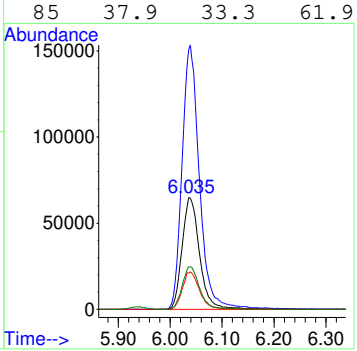


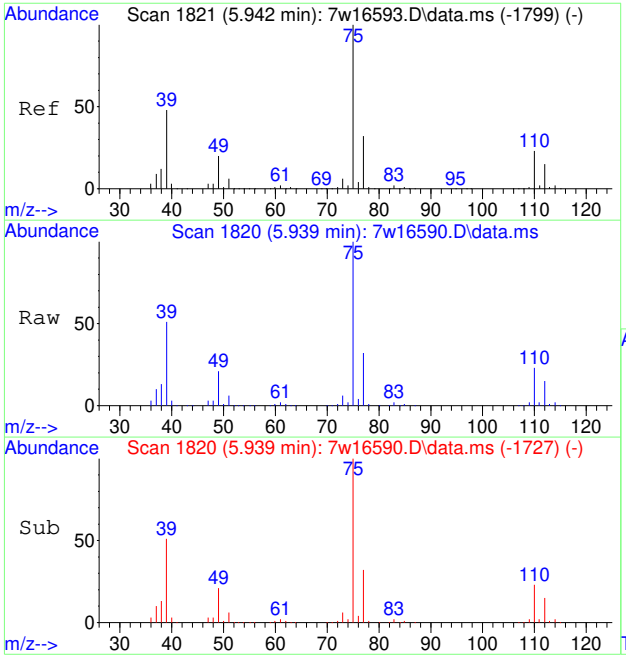


#64
METHYL ISOBUTYL KETONE
Concen: 10.20 PPBV
RT: 6.035 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 152356

Ion	Ratio	Lower	Upper
58	100		
43	234.0	193.8	360.0
100	33.2	32.8	60.8
85	37.9	33.3	61.9

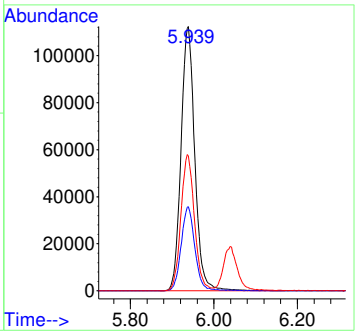


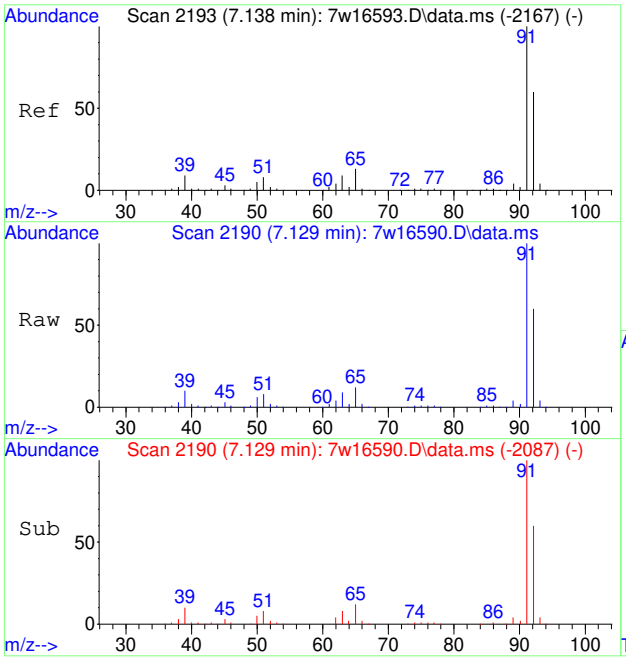


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.12 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 257147

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.0	38.5	71.5

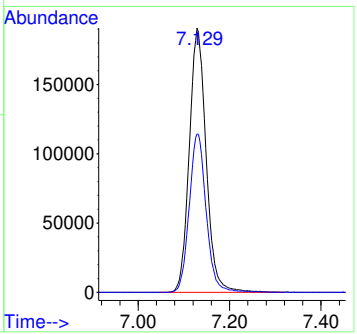


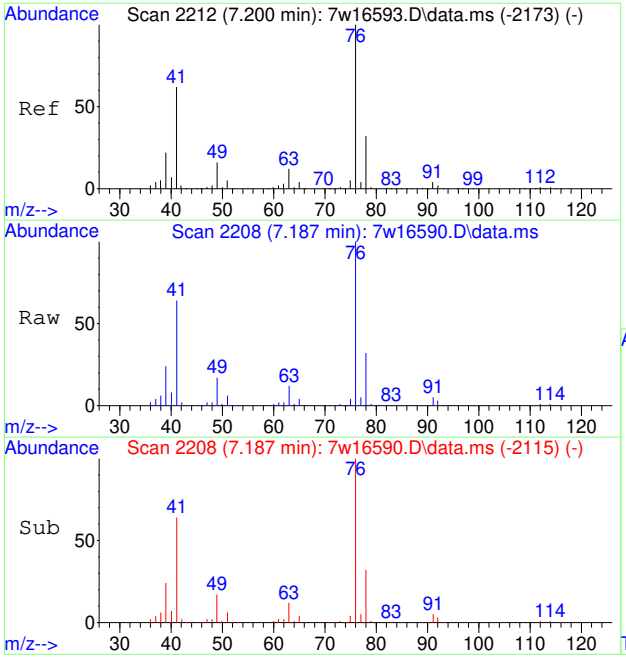


#66
TOLUENE
Concen: 10.60 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 488762

Ion	Ratio	Lower	Upper
91	100		
92	60.3	28.1	88.1

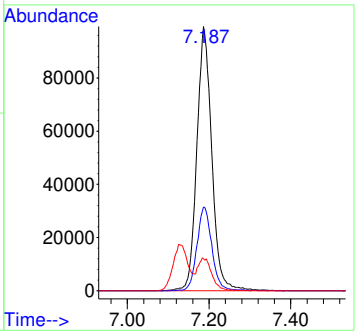


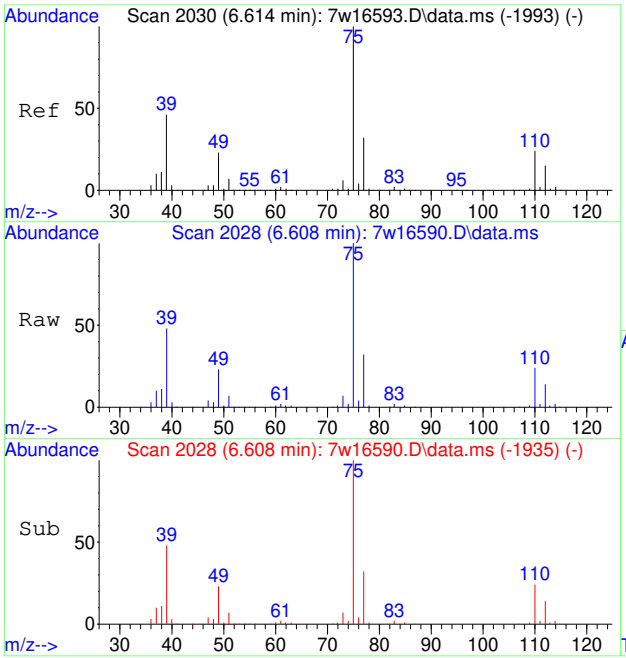


#67
1,3-DICHLOROPROPANE
Concen: 10.60 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 252760

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	11.9	8.0	14.8

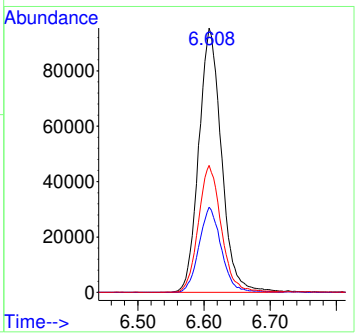


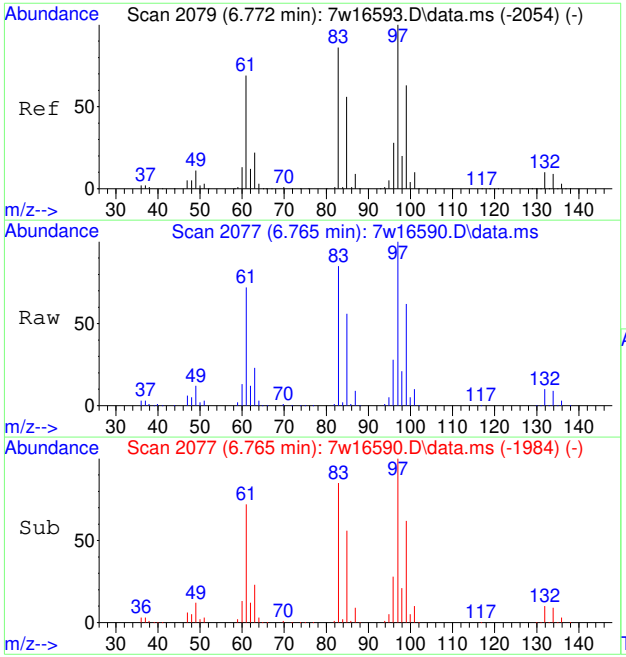


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 9.56 PPBV
RT: 6.608 min Scan# 2028
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 227014

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.5	41.7
39	48.5	37.2	69.0

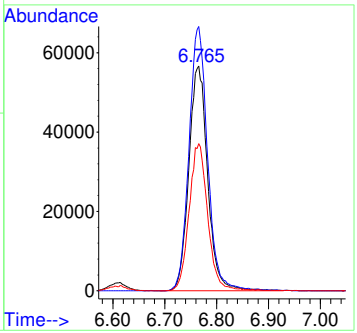


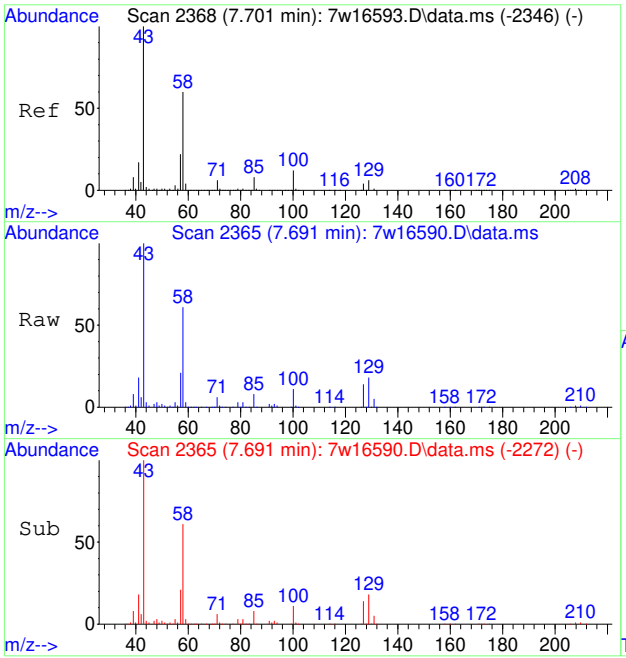


#69
1,1,2-TRICHLOROETHANE
Concen: 10.50 PPBV
RT: 6.765 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 143412

Ion	Ratio	Lower	Upper
83	100		
97	116.0	86.7	160.9
85	64.4	45.5	84.5

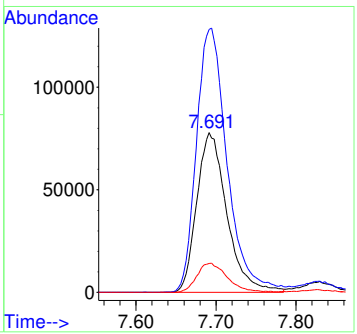


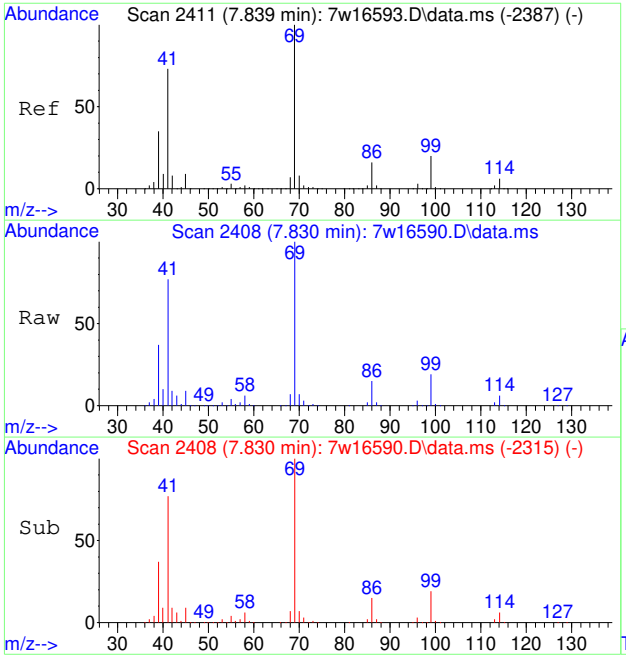


#70
2-HEXANONE
Concen: 10.38 PPBV
RT: 7.691 min Scan# 2365
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 203944

Ion	Ratio	Lower	Upper
58	100		
43	169.4	141.7	263.3
100	18.6	18.9	35.1#

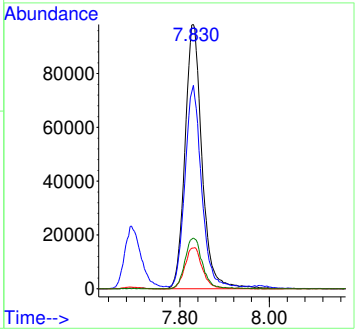


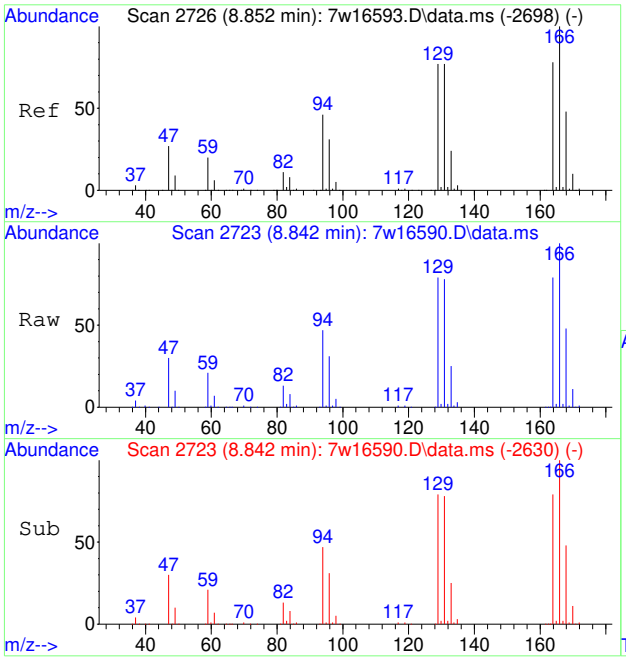


#71
ETHYL METHACRYLATE
Concen: 10.39 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 260130

Ion	Ratio	Lower	Upper
69	100		
41	76.6	49.3	91.6
86	16.1	11.6	21.6
99	19.7	13.4	24.8

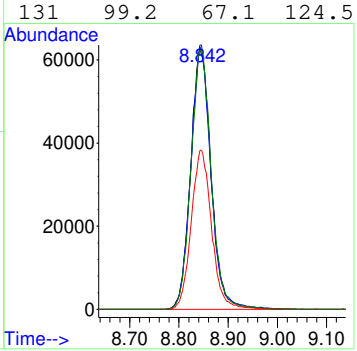


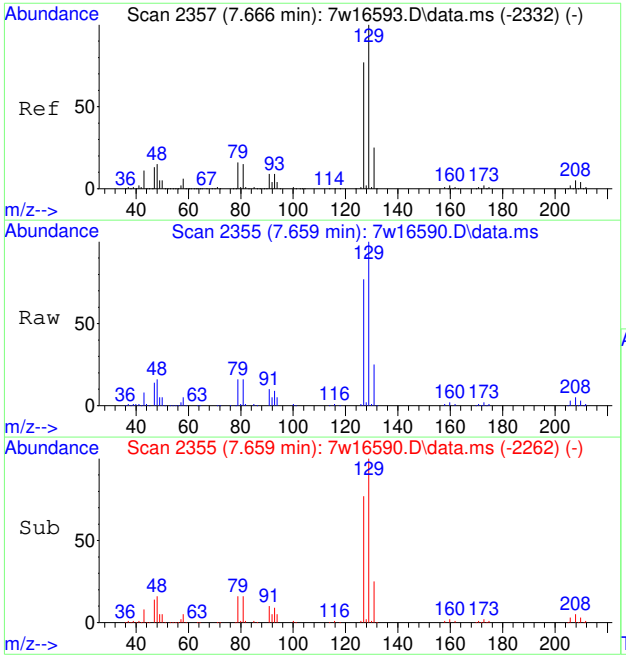


#72
TETRACHLOROETHENE
Concen: 10.70 PPBV
RT: 8.842 min Scan# 2723
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:164 Resp: 181618

Ion	Ratio	Lower	Upper
164	100		
129	99.4	69.7	129.5
168	60.7	43.4	80.6
131	99.2	67.1	124.5

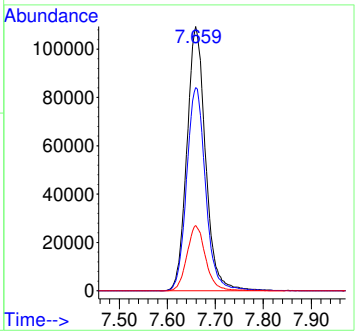


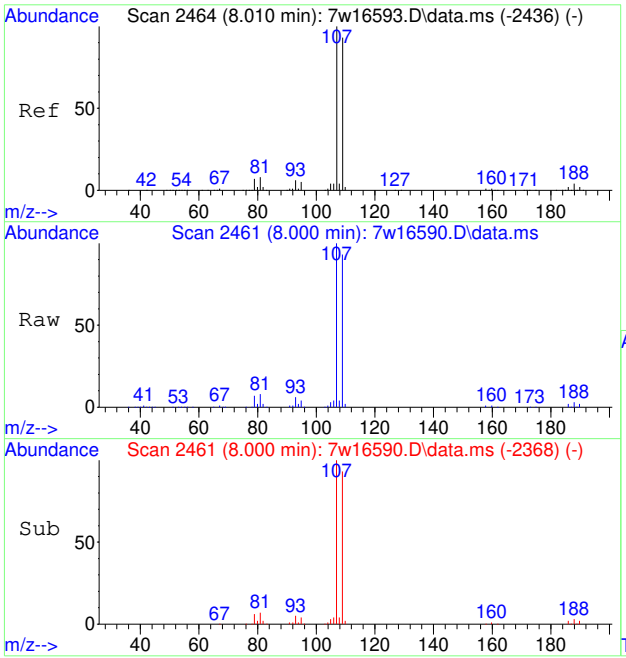


#73
DIBROMOCHLOROMETHANE
Concen: 10.40 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:129 Resp: 295382

Ion	Ratio	Lower	Upper
129	100		
127	78.2	53.0	98.4
131	24.9	16.9	31.3

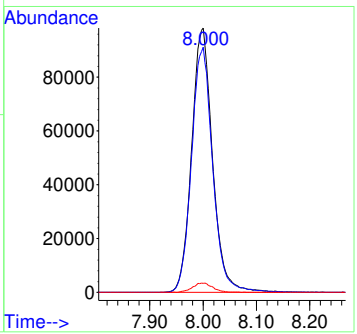


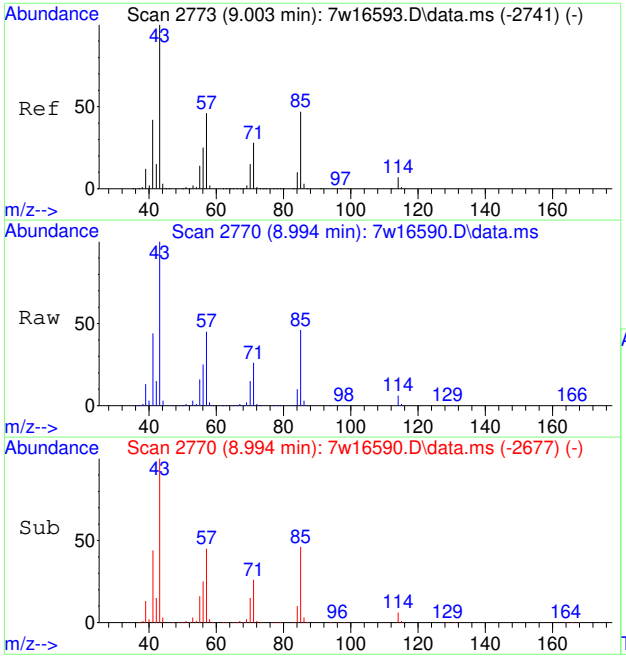


#74
1,2-DIBROMOETHANE
Concen: 10.99 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:107 Resp: 267727

Ion	Ratio	Lower	Upper
107	100		
109	94.5	65.7	122.1
188	3.5	2.4	4.4

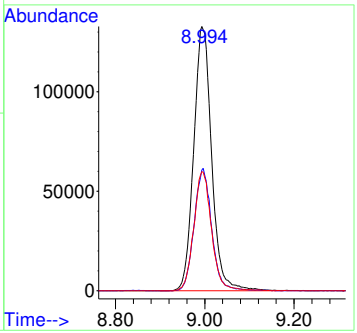


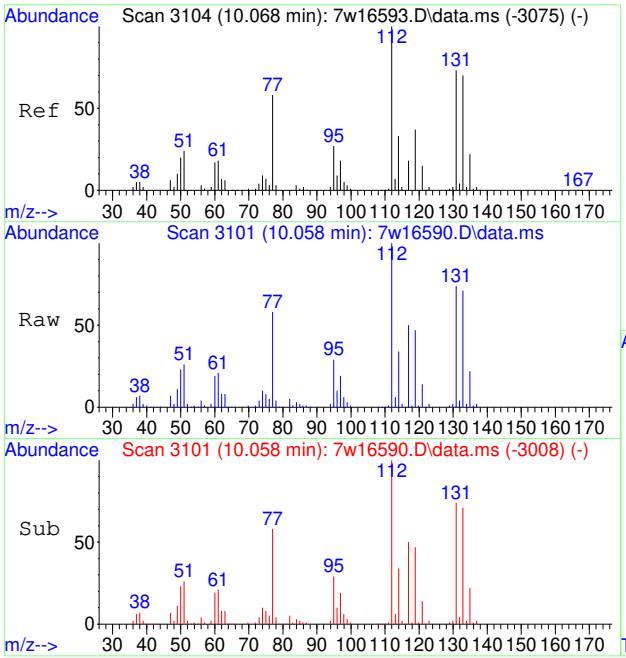


#75
OCTANE
Concen: 10.70 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 371213

Ion	Ratio	Lower	Upper
43	100		
85	45.4	36.5	67.9
57	44.8	27.6	51.2

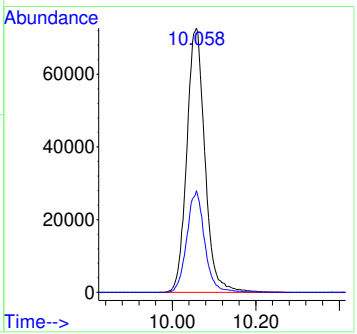


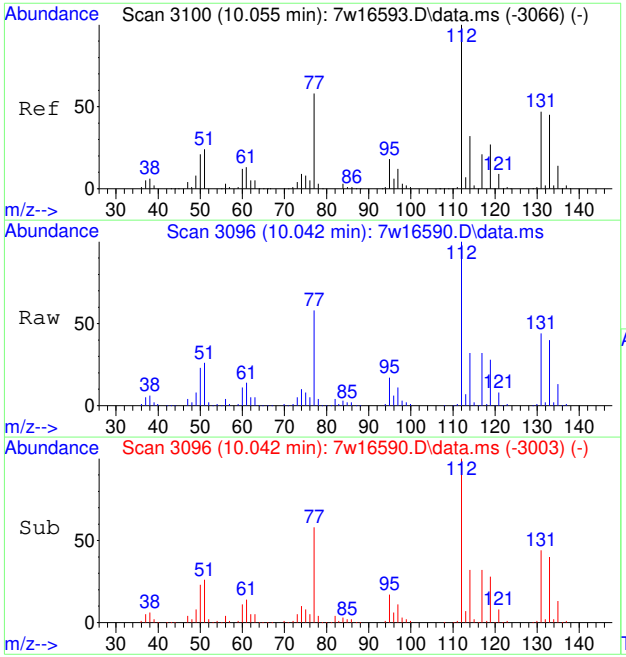


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.90 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:131 Resp: 219545

Ion	Ratio	Lower	Upper
131	100		
95	37.8	23.7	43.9

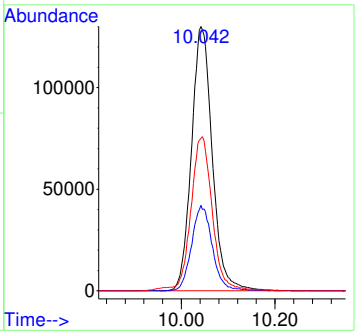


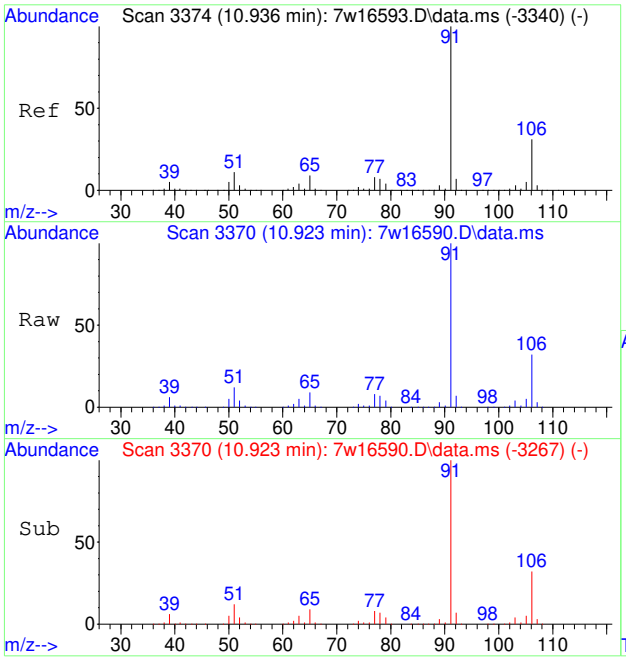


#78
CHLOROBENZENE
Concen: 10.90 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:112 Resp: 401465

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.9	42.5
77	60.1	34.4	63.8

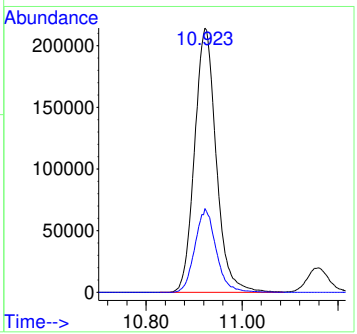


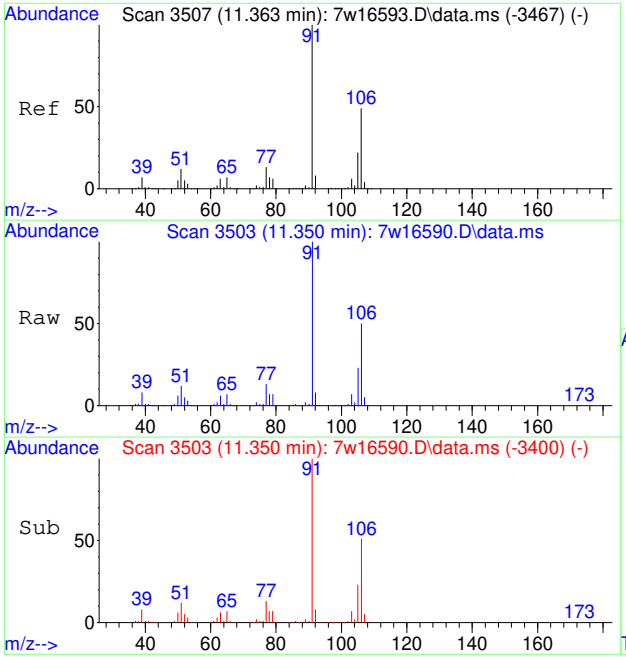


#79
ETHYLBENZENE
Concen: 11.00 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 667794

Ion	Ratio	Lower	Upper
91	100		
106	31.1	2.8	62.8

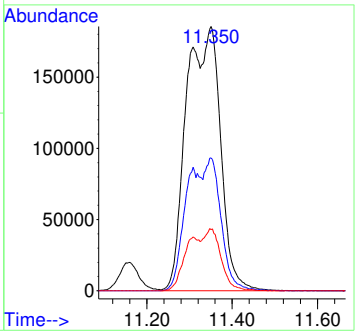


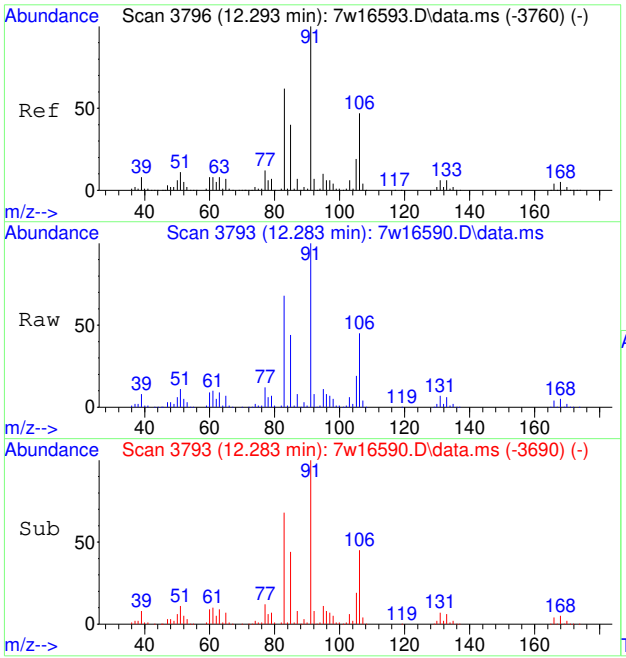


#80
M,P-XYLENE
Concen: 21.20 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 1033120

Ion	Ratio	Lower	Upper
91	100		
106	26.1	0.0	58.7
105	12.1	0.0	43.2

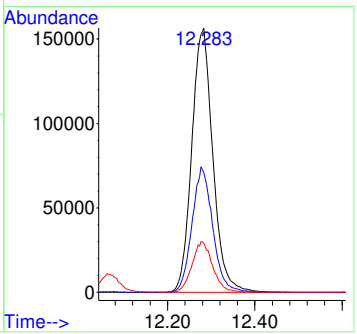


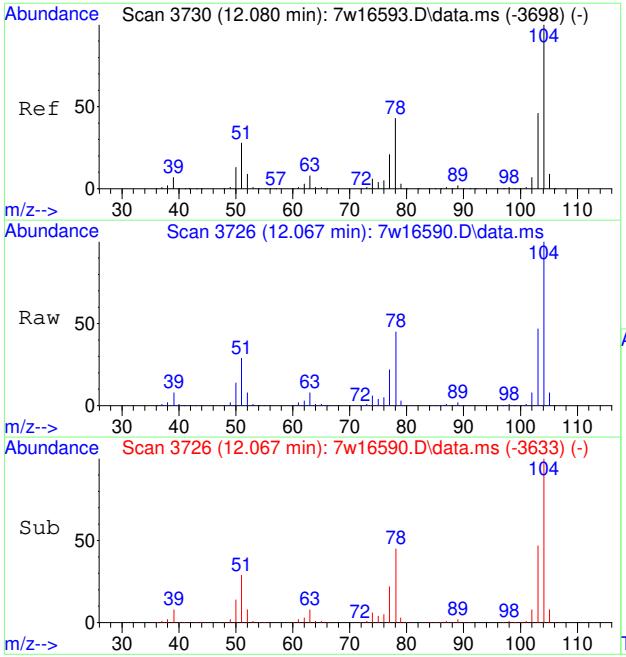


#81
O-XYLENE
Concen: 11.00 PPBV
RT: 12.283 min Scan# 3793
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 525465

Ion	Ratio	Lower	Upper
91	100		
106	45.4	34.1	63.3
105	18.6	14.6	27.2

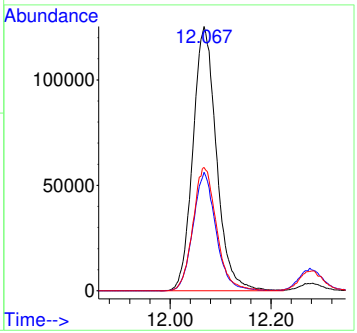


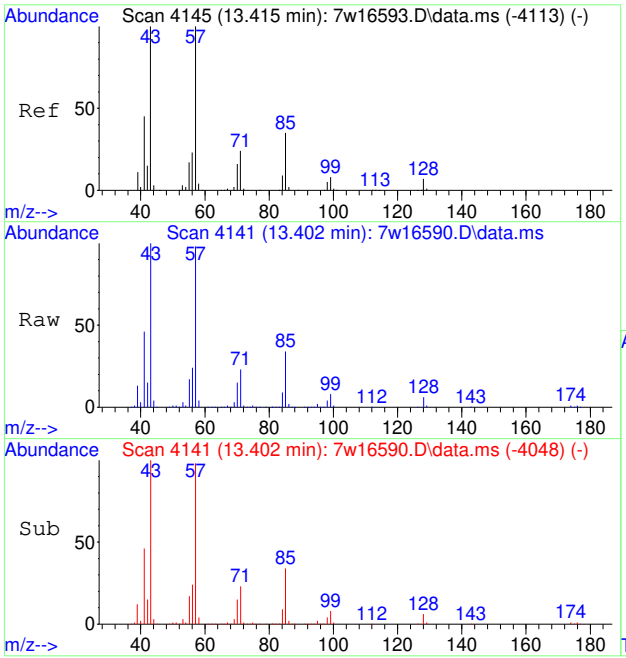


#82
STYRENE
Concen: 10.90 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:104 Resp: 405889

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	46.9	33.2	61.7

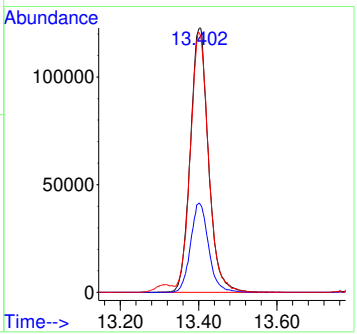


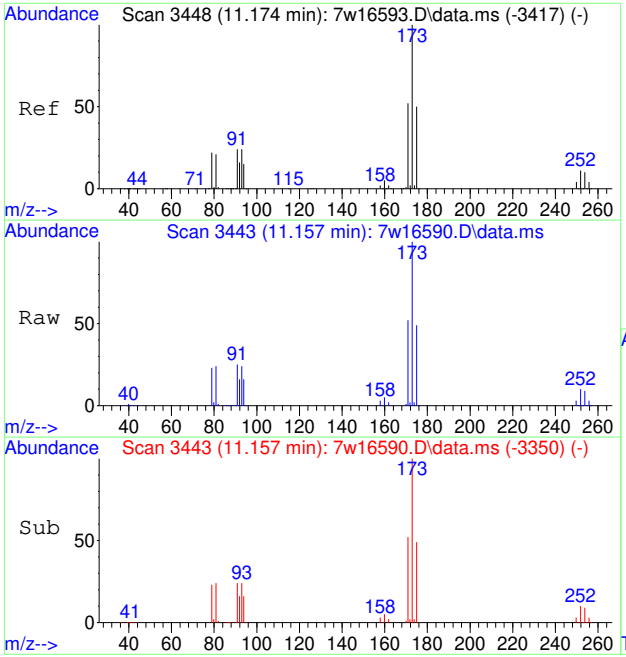


#83
NONANE
Concen: 10.80 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 395697

Ion	Ratio	Lower	Upper
43	100		
85	33.4	27.6	51.2
57	98.9	56.4	104.7

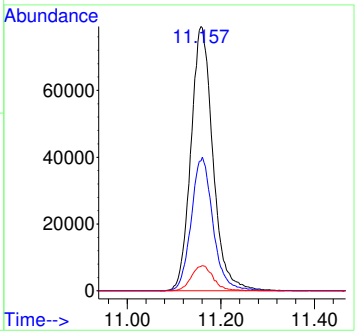


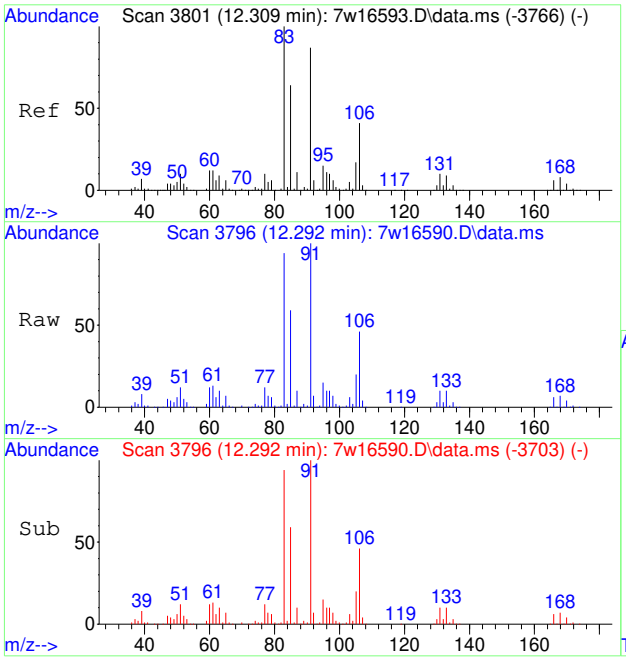


#84
BROMOFORM
Concen: 10.60 PPBV
RT: 11.157 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:173 Resp: 257628

Ion	Ratio	Lower	Upper
173	100		
175	50.1	33.0	61.4
254	9.6	5.9	10.9

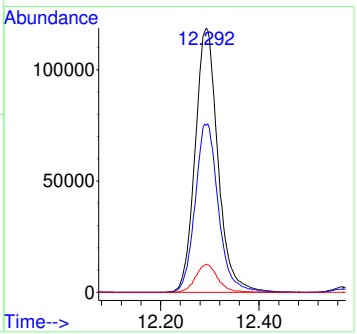


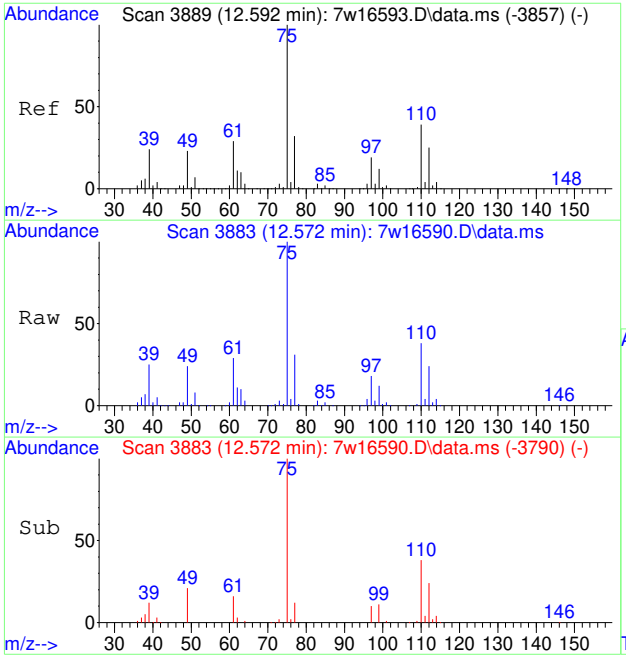


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 10.99 PPBV
RT: 12.292 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 382601

Ion	Ratio	Lower	Upper
83	100		
85	65.0	44.6	82.8
131	10.4	8.0	14.8

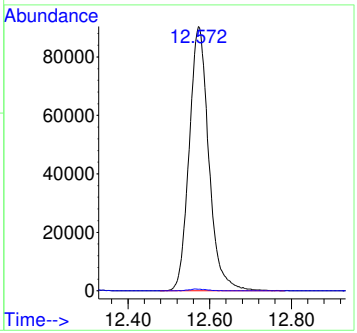


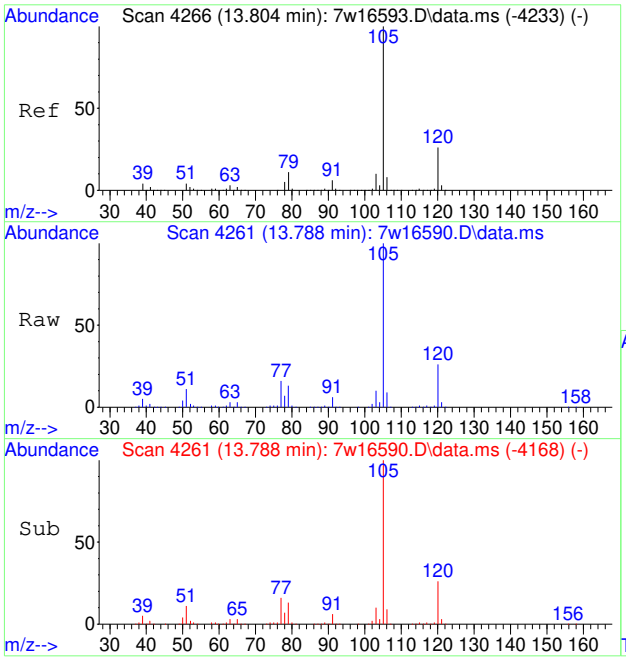


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.00 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 301186

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

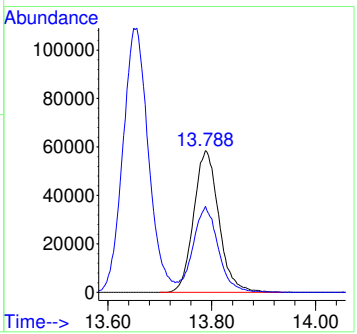


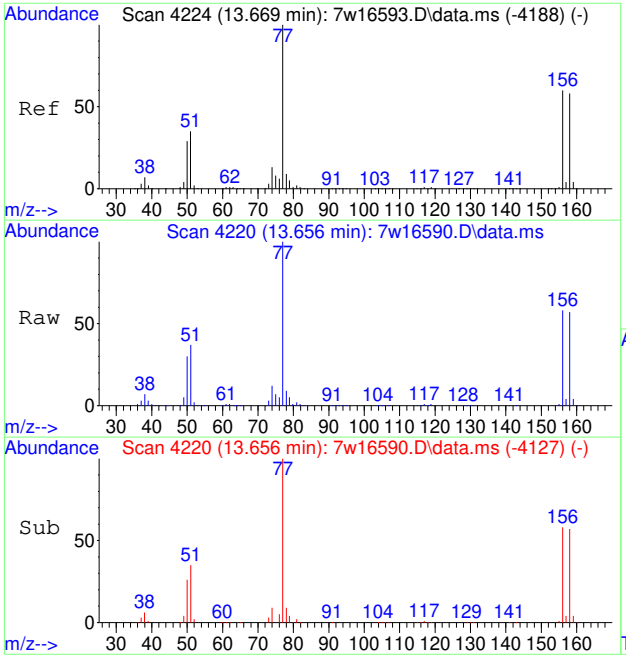


#88
ISOPROPYLBENZENE
Concen: 10.80 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 197546

Ion	Ratio	Lower	Upper
120	100		
77	60.7	36.0	67.0

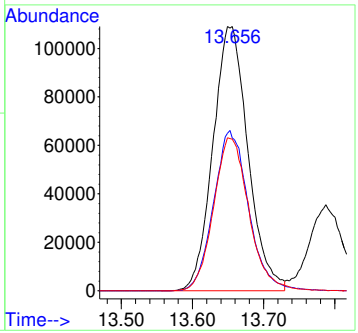


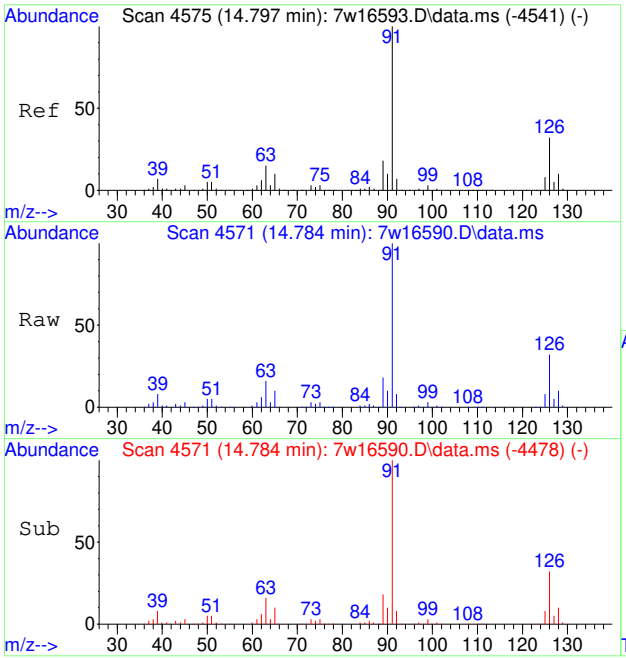


#89
BROMOBENZENE
Concen: 10.80 PPBV
RT: 13.656 min Scan# 4220
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 77 Resp: 373873

Ion	Ratio	Lower	Upper
77	100		
156	60.6	57.9	107.5
158	58.5	55.7	103.5

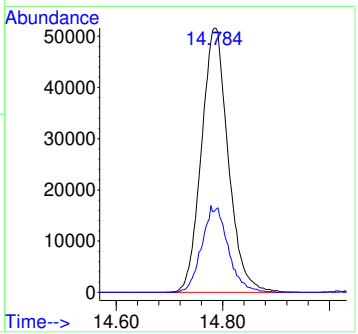


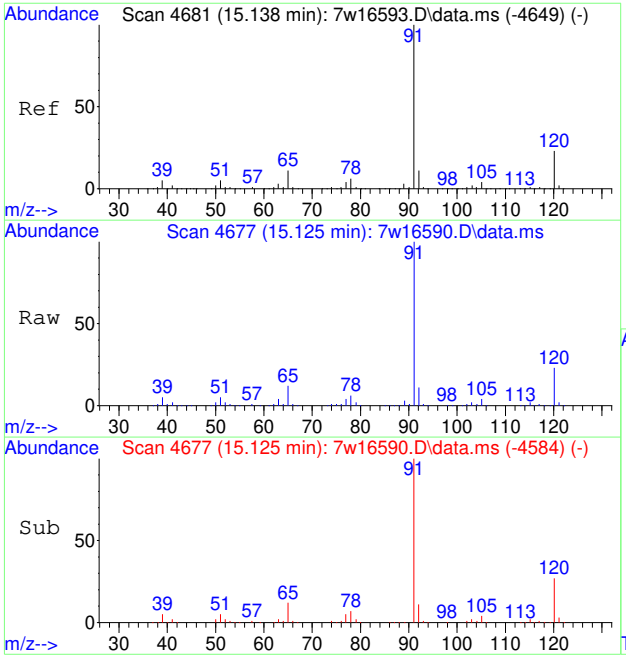


#90
2-CHLOROTOLUENE
Concen: 10.39 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:126 Resp: 179837

Ion	Ratio	Lower	Upper
126	100		
128	32.1	22.7	42.1

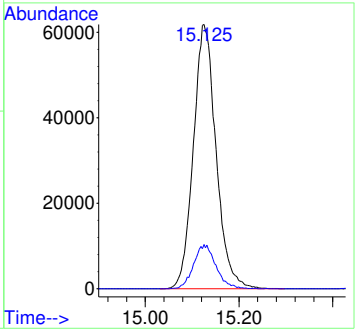


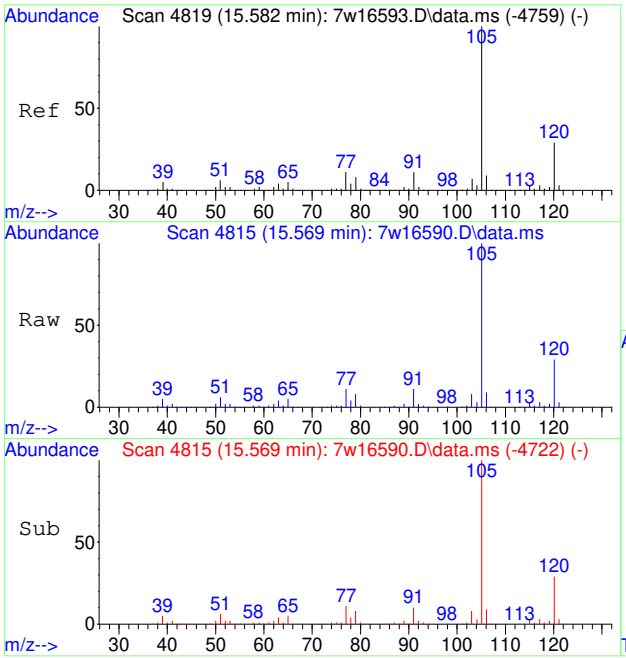


#91
N-PROPYLBENZENE
Concen: 10.50 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 208155

Ion	Ratio	Lower	Upper
120	100		
105	16.5	10.6	19.6

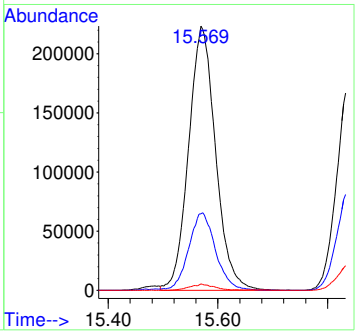


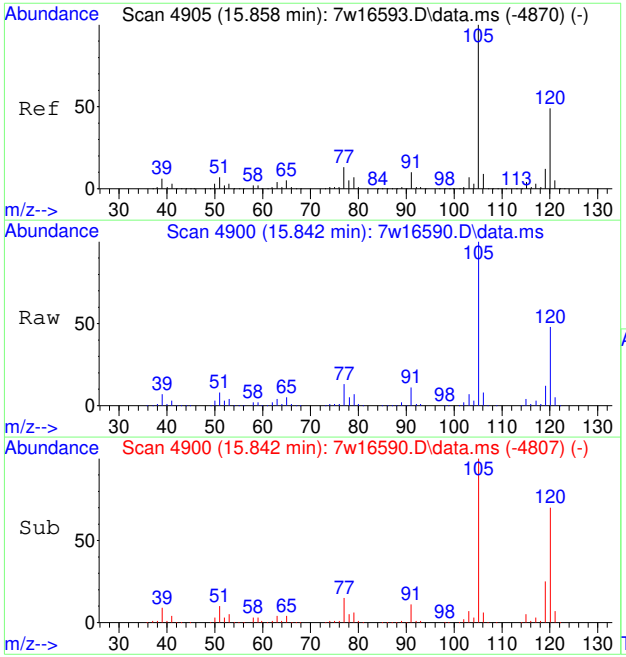


#92
4-ETHYLTOLUENE
Concen: 10.60 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 761814

Ion	Ratio	Lower	Upper
105	100		
120	29.6	21.8	40.4
119	2.3	1.7	3.1

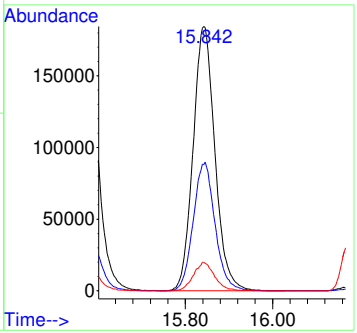


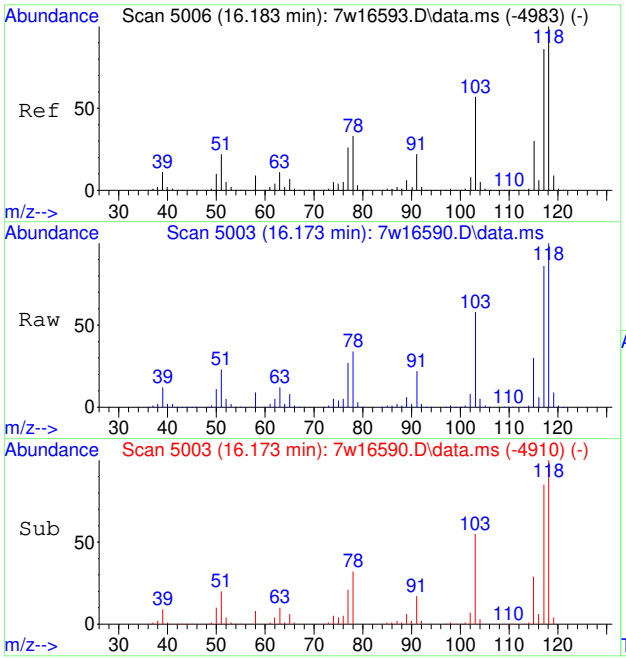


#93
1,3,5-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 641174

Ion	Ratio	Lower	Upper
105	100		
120	48.6	37.2	69.2
91	10.5	7.5	13.9

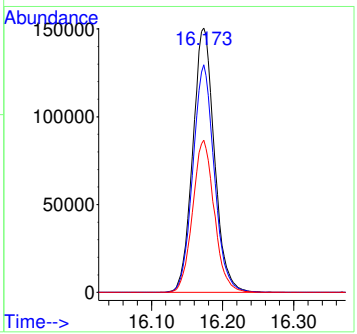


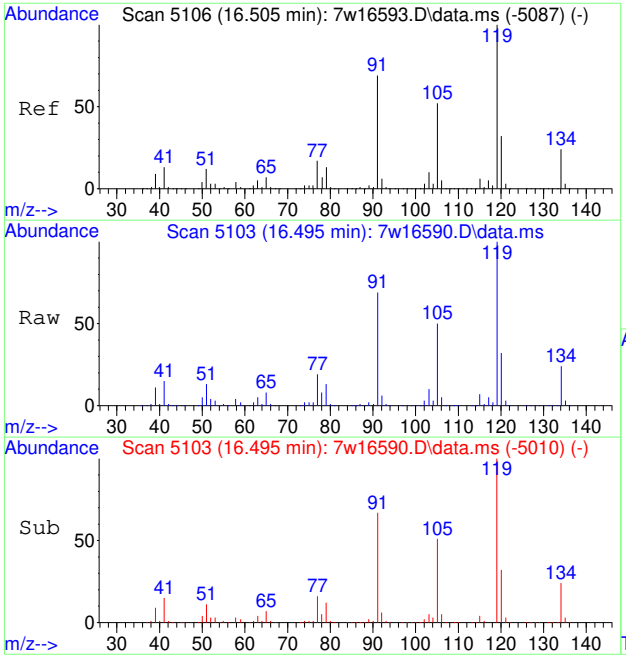


#94
ALPHA-METHYLSTYRENE
Concen: 10.40 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:118 Resp: 317898

Ion	Ratio	Lower	Upper
118	100		
117	85.2	59.9	111.3
103	57.6	36.2	67.2

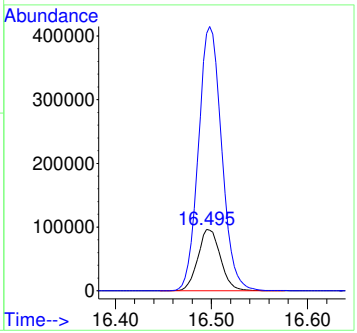


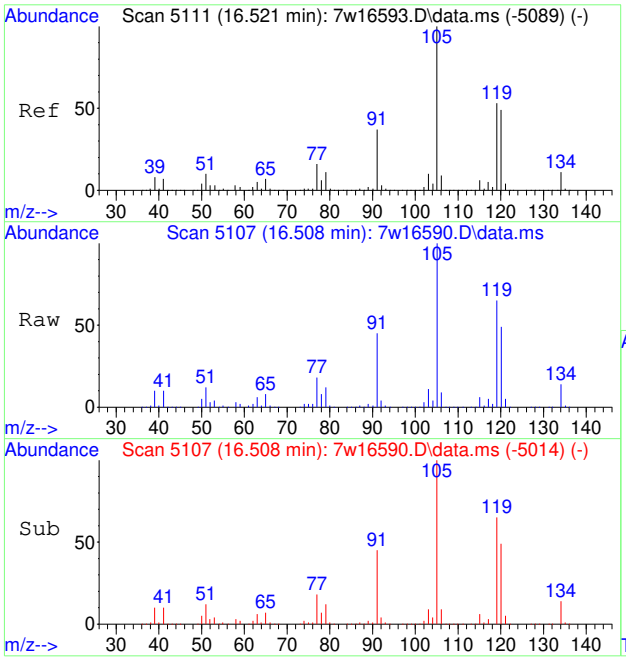


#95
TERT-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 157456

Ion	Ratio	Lower	Upper
134	100		
119	444.7	307.9	571.7

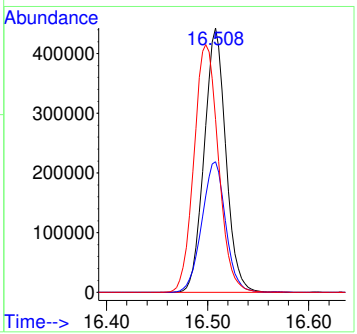


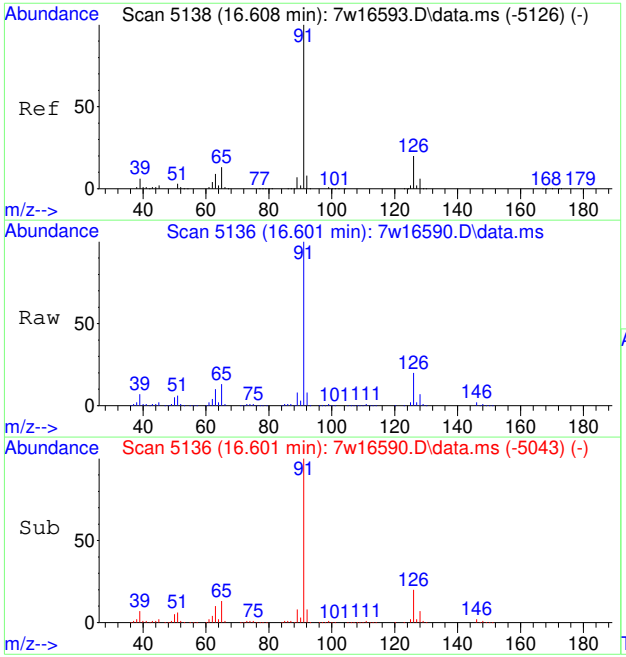


#96
1,2,4-TRIMETHYLBENZENE
Concen: 10.90 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 660136

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	106.1	78.0	144.8

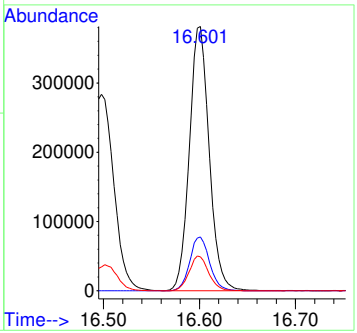


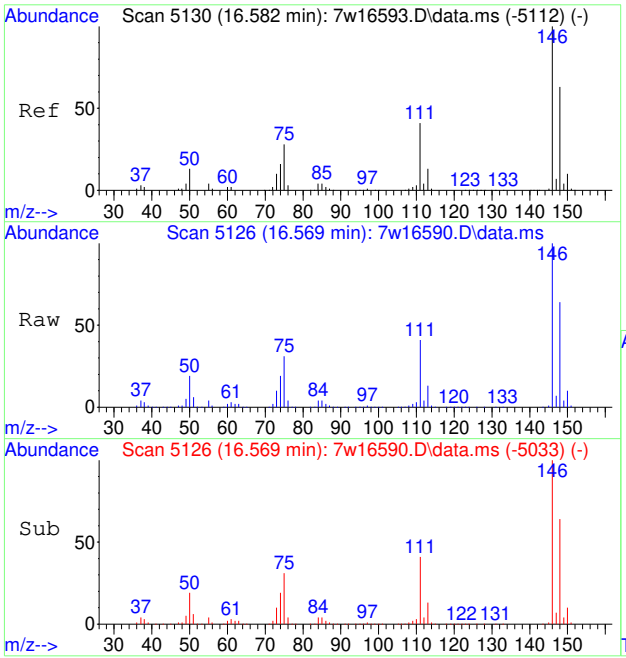


#97
BENZYL CHLORIDE
Concen: 10.50 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 547978

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	13.1	7.3	13.7

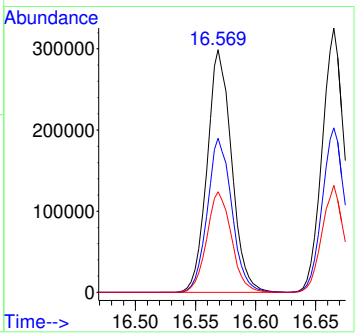


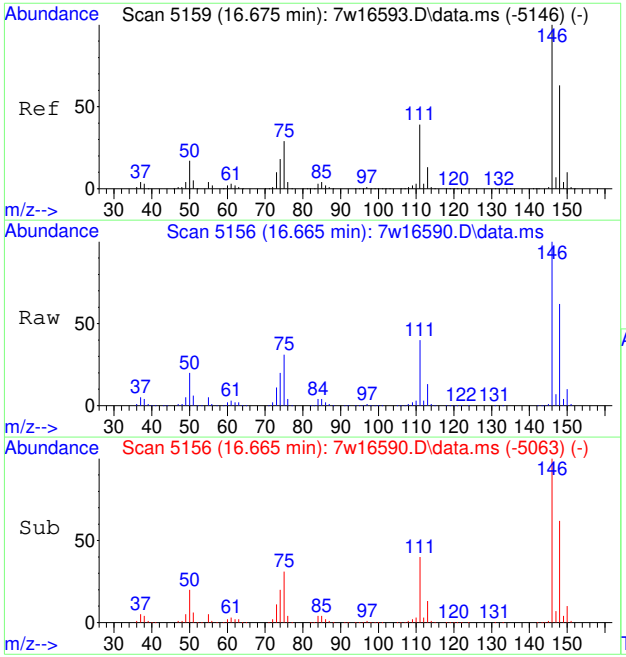


#98
M-DICHLOROBENZENE
Concen: 10.50 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 424825

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.8	25.4	47.2

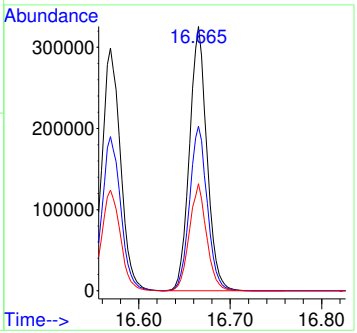


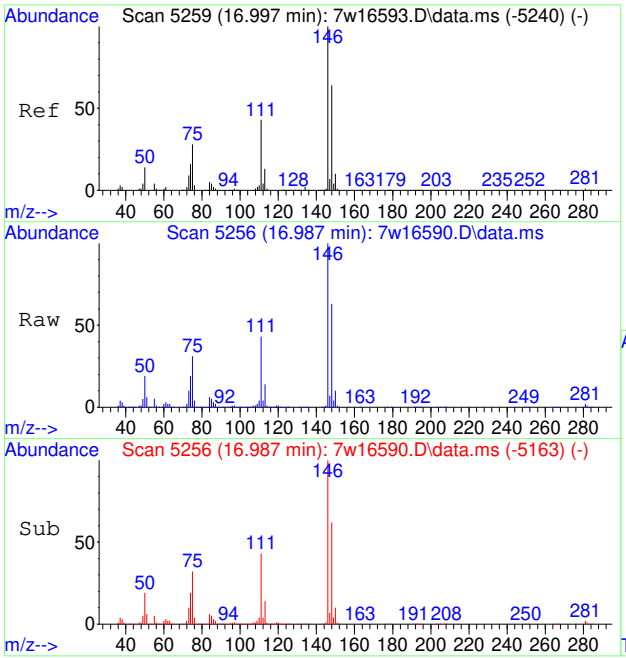


#99
P-DICHLOROBENZENE
Concen: 10.80 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 430477

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	40.0	24.8	46.1

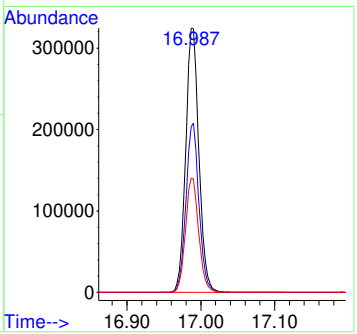


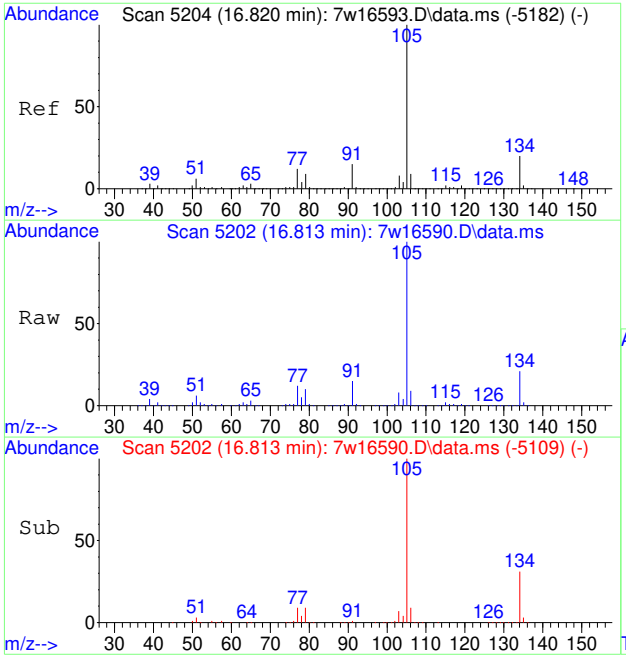


#100
O-DICHLOROBENZENE
Concen: 10.70 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 400770

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.4	26.9	50.1

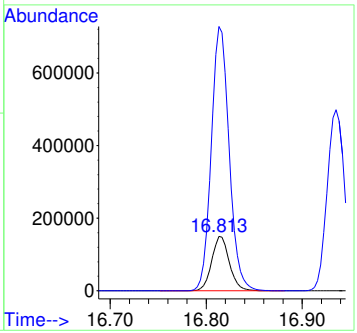


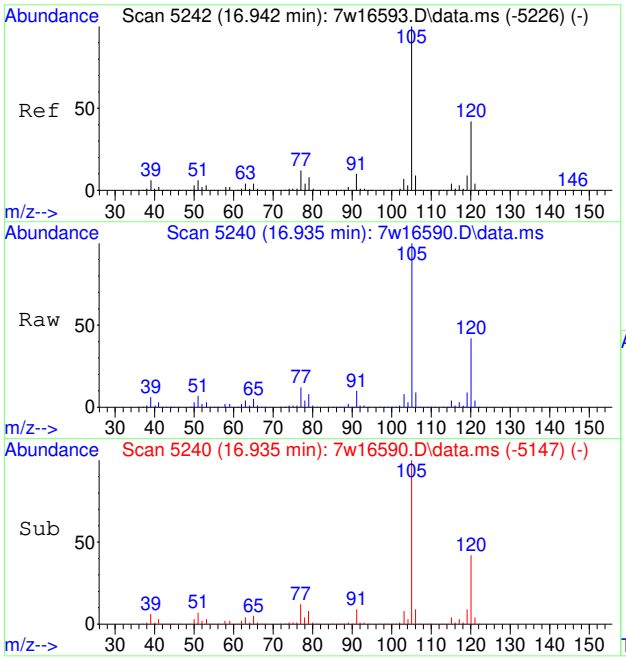


#101
SEC-BUTYLBENZENE
Concen: 11.00 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 191611

Ion	Ratio	Lower	Upper
134	100		
105	492.5	314.4	584.0

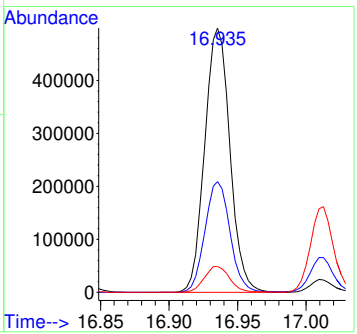


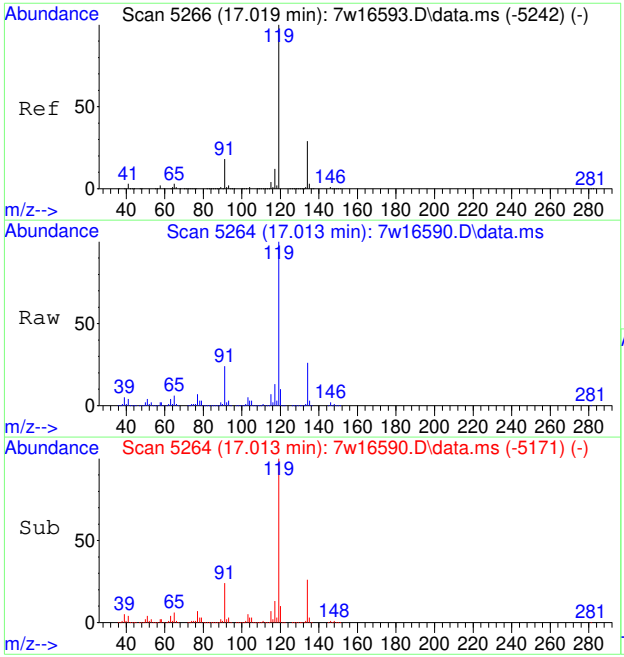


#102
1,2,3-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 636319

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

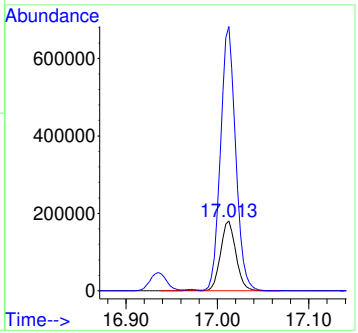


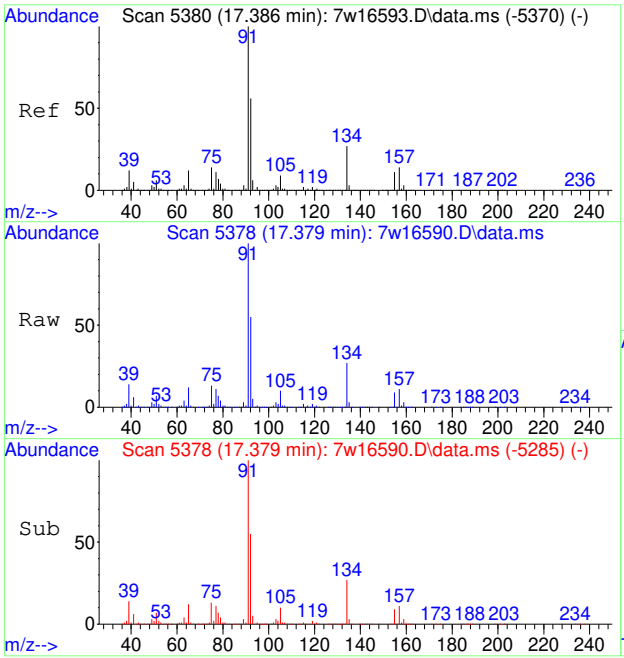


#103
P-ISOPROPYLTOLUENE
Concen: 10.80 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 211524

Ion	Ratio	Lower	Upper
134	100		
119	373.4	253.7	471.3

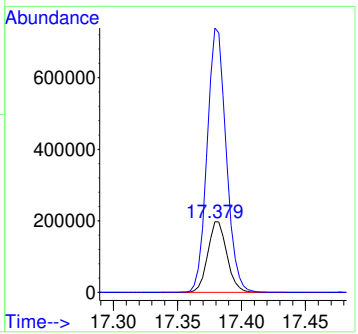


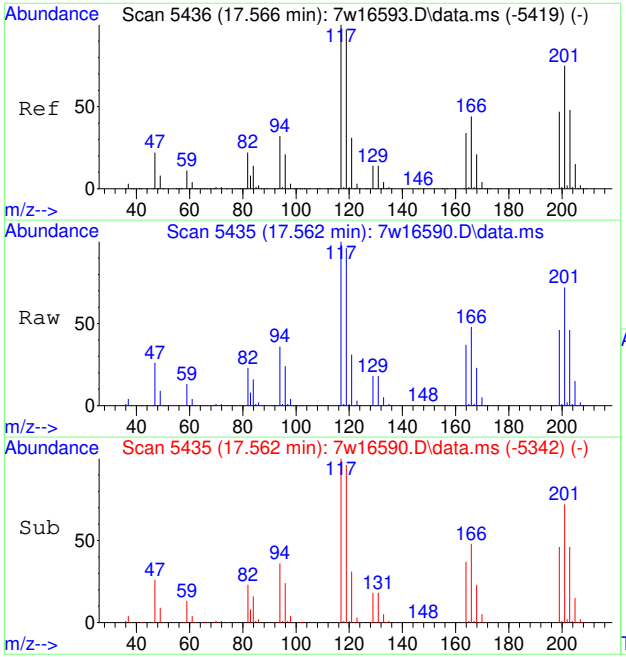


#104
N-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 205284

Ion	Ratio	Lower	Upper
134	100		
91	372.9	231.1	429.1

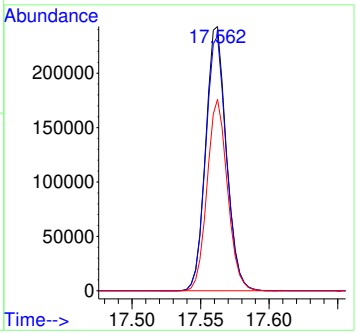


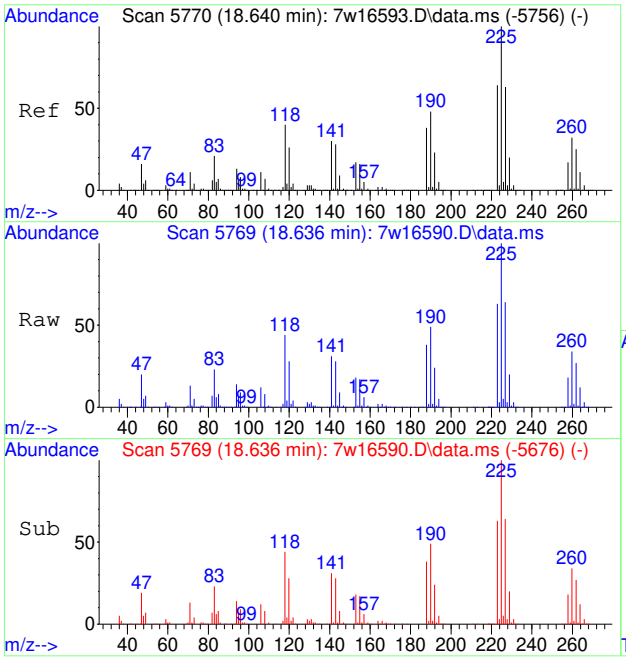


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 254836

Ion	Ratio	Lower	Upper
117	100		
119	96.7	68.3	126.9
201	71.2	45.9	85.3

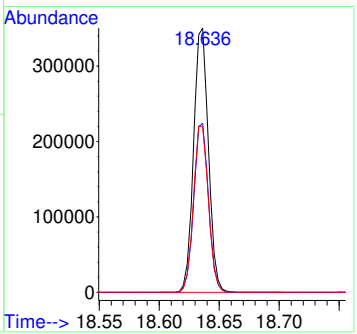


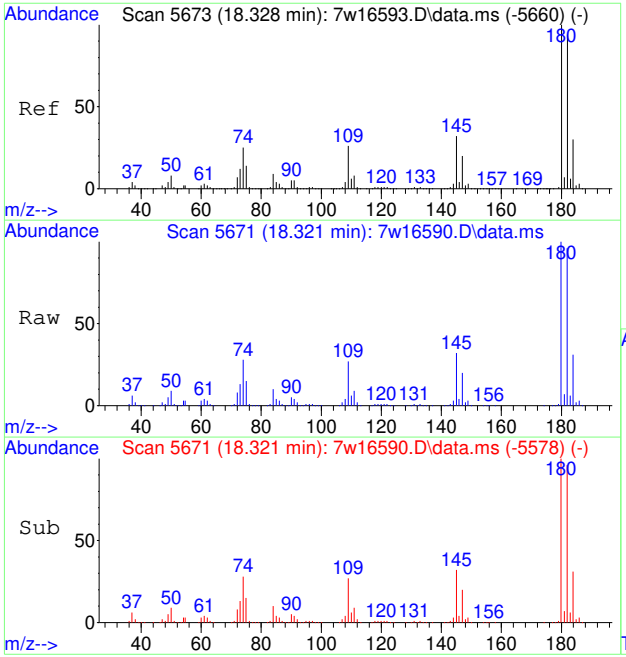


#106
HEXACHLOROBUTADIENE
Concen: 11.70 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:225 Resp: 300683

Ion	Ratio	Lower	Upper
225	100		
227	63.7	44.4	82.5
223	63.7	44.7	83.1

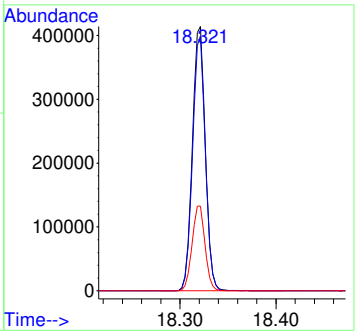


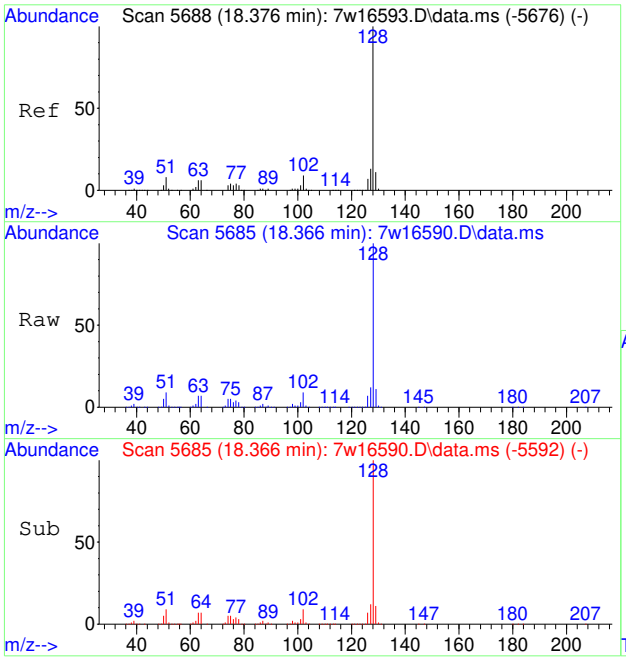


#107
1,2,4-TRICHLOROBENZENE
Concen: 11.70 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:180 Resp: 387303

Ion	Ratio	Lower	Upper
180	100		
182	95.1	66.8	124.0
145	32.2	23.1	42.9

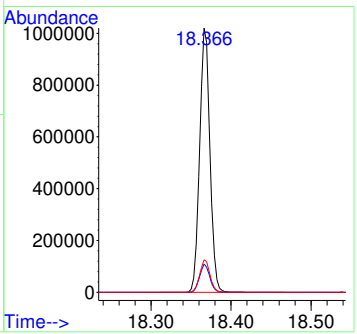


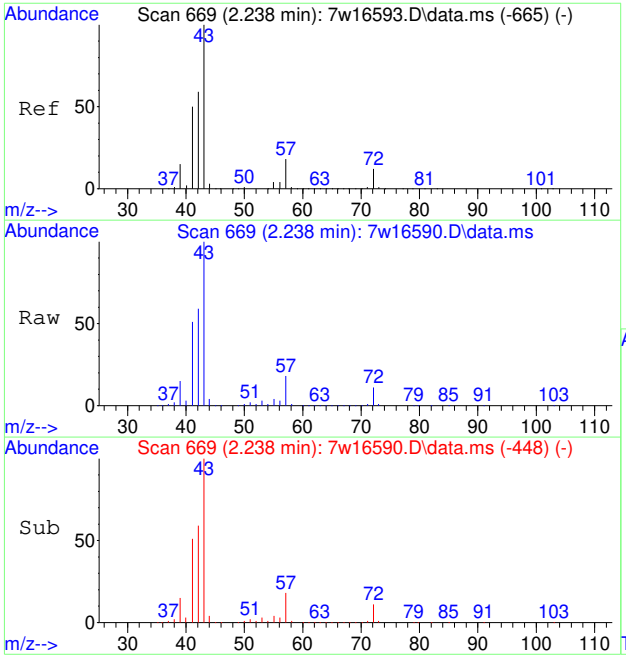


#108
NAPHTHALENE
Concen: 11.80 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:128 Resp: 909462

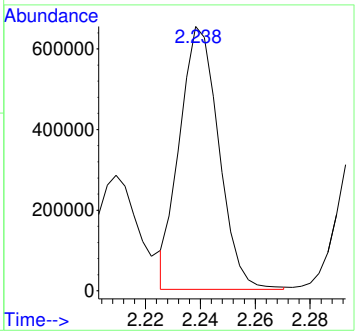
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.3	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 10.59 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:TIC Resp: 646941



7.7.19

7

Manual Integration Approval Summary

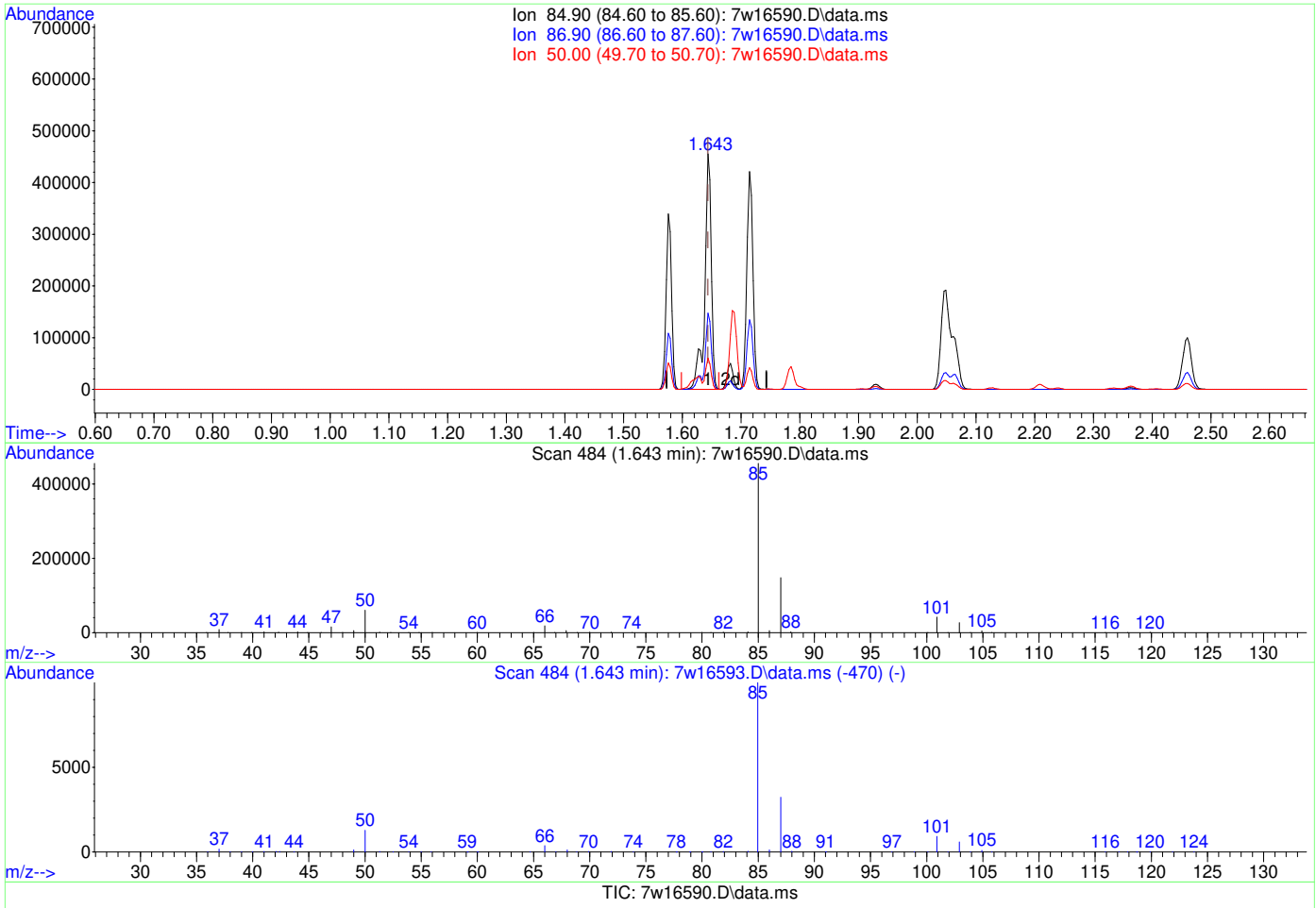
Sample Number: V7W577-ICC577
Lab FileID: 7W16590.D
Injection Time: 08/07/25 13:07
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 10.60PPBV

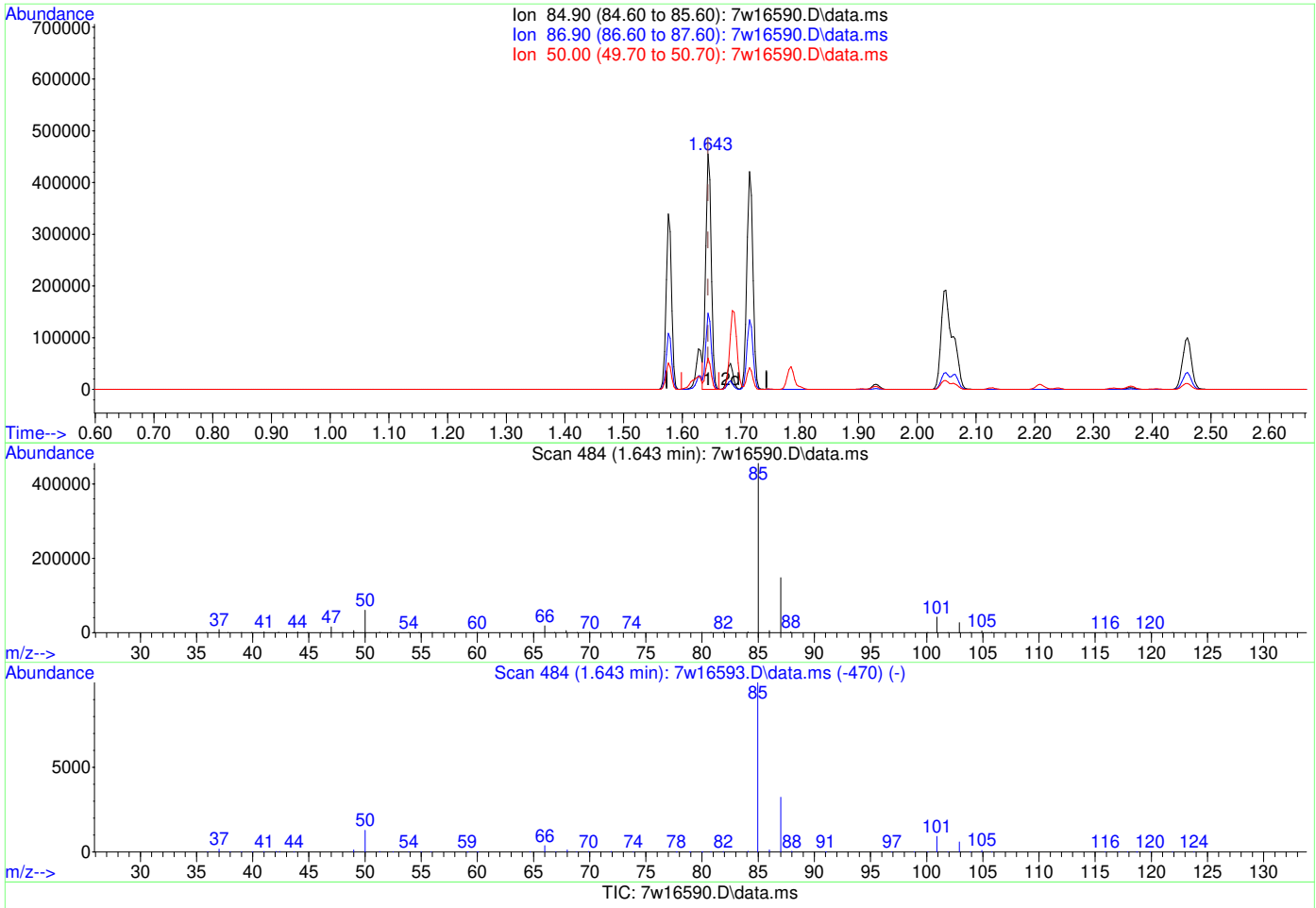
response 350784

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.84
50.00	17.30	19.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 8.88PPBV m

response 294067

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.18
50.00	17.30	23.06#
0.00	0.00	0.00

7W16591.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109480	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	545187	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	503767	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109480	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	408790	9.97	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	249521	17.67	PPBV		90
3) FREON 152A	1.608	65	134083	19.87	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	61032	19.91	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	298756	19.87	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.647	85	530689m	16.21	PPBV		
7) PROPYLENE	1.627	41	171796	19.80	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	483910	19.78	PPBV		99
9) FREON 114	1.717	85	552603	19.29	PPBV		83
10) CHLOROMETHANE	1.688	52	73238	19.85	PPBV		96
11) VINYL CHLORIDE	1.750	62	258206	18.84	PPBV		99
12) 1,3-BUTADIENE	1.785	54	200205	18.85	PPBV	#	74
13) N-BUTANE	1.801	43	354476	19.48	PPBV		97
14) BROMOMETHANE	1.859	94	197085	18.92	PPBV		97
15) CHLOROETHANE	1.907	64	136427	18.81	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	473770	18.30	PPBV		96
17) ACETONITRILE	1.997	41	201387	17.69	PPBV		96
18) ACROLEIN	2.036	56	114846	19.37	PPBV		97
19) FREON 123	2.049	83	521378	19.72	PPBV		96
20) FREON 123A	2.065	117	305527m	19.66	PPBV		
21) TRICHLOROFLUOROMETHANE	2.129	101	556426	18.45	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	474515	18.98	PPBV		89
23) ACETONE	2.071	58	129681	18.71	PPBV		64
24) PENTANE	2.242	42	249050	19.26	PPBV		87
25) IODOMETHANE	2.303	142	541893	19.59	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.328	96	219577	19.61	PPBV	#	60
27) CARBON DISULFIDE	2.463	76	631688	19.43	PPBV		92
28) ETHANOL	1.933	45	114301	17.84	PPBV		97
29) BROMOETHENE	2.007	106	202351	18.58	PPBV		95
30) ACRYLONITRILE	2.213	52	187985	19.57	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	196005	18.45	PPBV	#	78
32) 3-CHLOROPROPENE	2.409	76	114925	18.95	PPBV		73
33) FREON 113	2.460	151	337394	19.33	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.688	96	231431	18.75	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.338	59	526848	17.25	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	677061	19.29	PPBV		97
37) TETRAHYDROFURAN	3.467	72	104573	17.84	PPBV		81
38) HEXANE	3.241	57	453219	19.51	PPBV		80
39) VINYL ACETATE	2.827	86	66441	19.48	PPBV		74
40) 1,1-DICHLOROETHANE	2.759	63	455143	18.70	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	120276	19.21	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.116	96	246893	19.20	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	130636	19.57	PPBV		91
44) ETHYL ACETATE	3.248	61	93045	19.72	PPBV		55
45) METHYL ACRYLATE	3.235	55	561273	19.52	PPBV	#	98
46) CHLOROFORM	3.264	83	484502	19.05	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	525364	19.82	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.823	97	508992	19.19	PPBV		95
49) CARBON TETRACHLORIDE	4.238	117	536446	18.95	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	375248	18.79	PPBV		97
51)	BENZENE	4.129	78	718150	19.31	PPBV		91
53)	CYCLOHEXANE	4.331	84	325475	19.45	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.585	71	167011	19.60	PPBV		67
55)	TRICHLOROETHENE	5.013	95	327435	18.36	PPBV		86
56)	1,2-DICHLOROPROPANE	4.785	63	302257	19.23	PPBV		92
57)	DIBROMOMETHANE	4.746	174	277930	19.08	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	703238	19.73	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.962	83	549357	18.61	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	1404688	18.90	PPBV	#	96
61)	1,4-DIOXANE	5.023	88	159487	18.11	PPBV	#	80
62)	HEPTANE	5.418	43	476905	19.19	PPBV		91
63)	METHYL METHACRYLATE	5.319	69	276982	19.41	PPBV		90
64)	METHYL ISOBUTYL KETONE	6.039	58	278396	19.00	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	474515	19.04	PPBV		96
66)	TOLUENE	7.132	91	898243	19.86	PPBV		98
67)	1,3-DICHLOROPROPANE	7.193	76	463972	19.84	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	425650	18.27	PPBV		95
69)	1,1,2-TRICHLOROETHANE	6.769	83	262141	19.57	PPBV		96
70)	2-HEXANONE	7.695	58	374273	19.43	PPBV	#	78
71)	ETHYL METHACRYLATE	7.833	69	477947	19.46	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	335304	20.14	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.663	129	551638	19.81	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	487978	20.42	PPBV		99
75)	OCTANE	8.997	43	676810	19.89	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	402558	20.28	PPBV		93
78)	CHLOROBENZENE	10.045	112	735731	20.26	PPBV		90
79)	ETHYLBENZENE	10.926	91	1222868	20.44	PPBV		98
80)	M,P-XYLENE	11.354	91	1892381	39.40	PPBV		98
81)	O-XYLENE	12.286	91	959093	20.37	PPBV		96
82)	STYRENE	12.071	104	744213	20.29	PPBV		94
83)	NONANE	13.405	43	723418	20.03	PPBV		83
84)	BROMOFORM	11.161	173	487585	20.35	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	696701	20.31	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.579	75	544148	20.17	PPBV		100
88)	ISOPROPYLBENZENE	13.794	120	360209	19.98	PPBV		88
89)	BROMOBENZENE	13.659	77	684288	20.06	PPBV		76
90)	2-CHLOROTOLUENE	14.788	126	331208	19.42	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	382520	19.58	PPBV		97
92)	4-ETHYLTOLUENE	15.575	105	1412222	19.94	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.849	105	1177558	19.94	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.177	118	587843	19.51	PPBV		97
95)	TERT-BUTYLBENZENE	16.501	134	284215	19.96	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	1206100	20.20	PPBV		94
97)	BENZYL CHLORIDE	16.601	91	1043995	20.31	PPBV		92
98)	M-DICHLOROBENZENE	16.572	146	777553	19.50	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	788870	20.08	PPBV		97
100)	O-DICHLOROBENZENE	16.990	146	731265	19.81	PPBV		97
101)	SEC-BUTYLBENZENE	16.817	134	351357	20.47	PPBV		84
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	1159850	19.79	PPBV		96
103)	P-ISOPROPYLTOLUENE	17.013	134	385467	19.97	PPBV		94
104)	N-BUTYLBENZENE	17.382	134	378596	20.40	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	477608	20.73	PPBV		96
106)	HEXACHLOROBUTADIENE	18.636	225	568005	22.43	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.321	180	737709	22.61	PPBV		100
108)	NAPHTHALENE	18.369	128	1742340	22.94	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	1188767	19.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

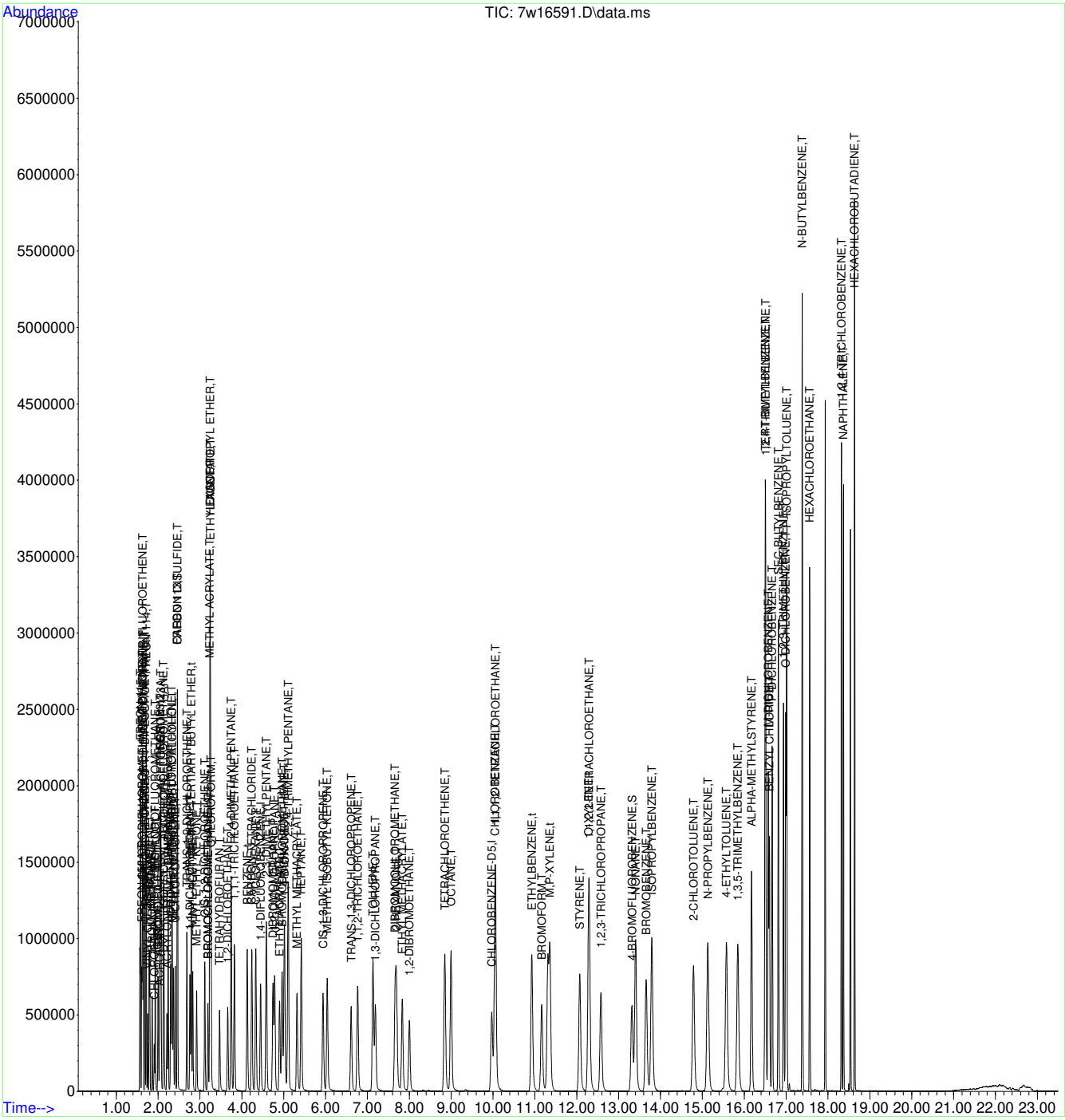
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

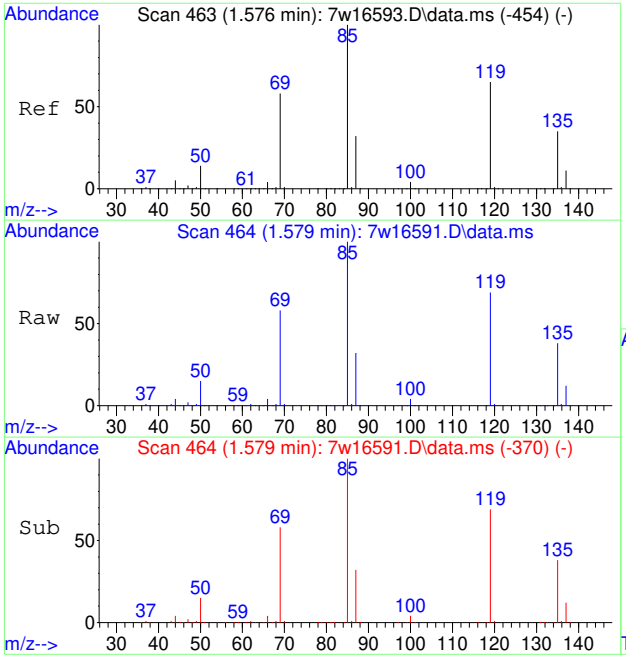
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

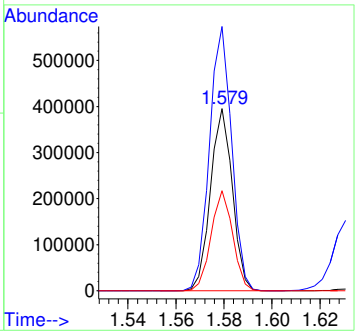


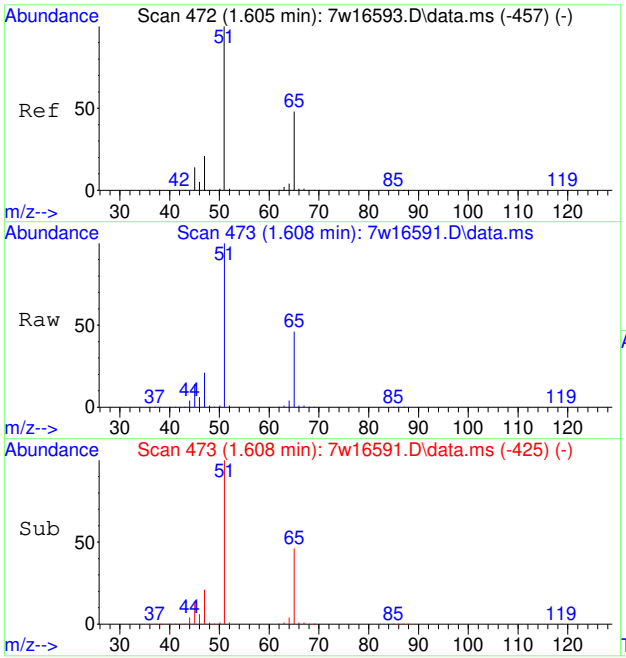


#2
FREON 115
Concen: 17.67 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:119 Resp: 249521

Ion	Ratio	Lower	Upper
119	100		
85	146.7	90.9	168.7
135	54.3	38.2	71.0

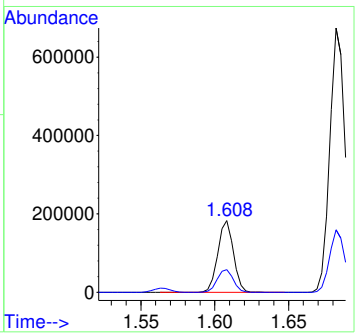


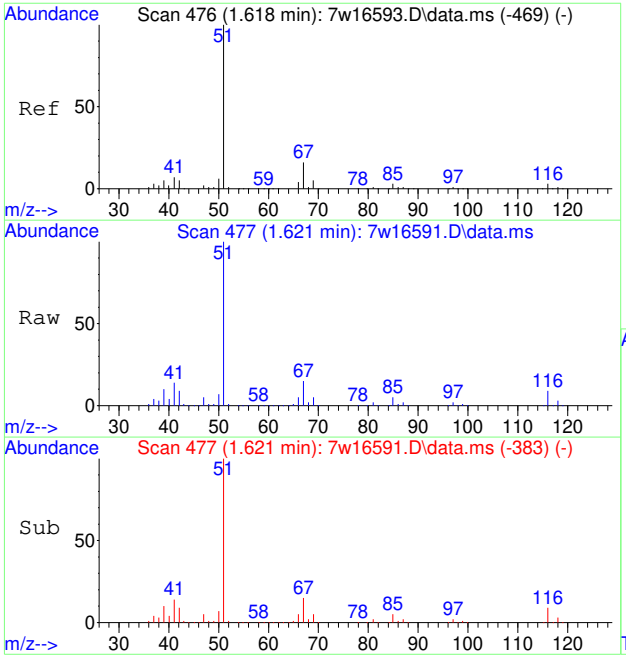


#3
FREON 152A
Concen: 19.87 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 134083

Ion	Ratio	Lower	Upper
65	100		
45	32.5	20.6	38.4

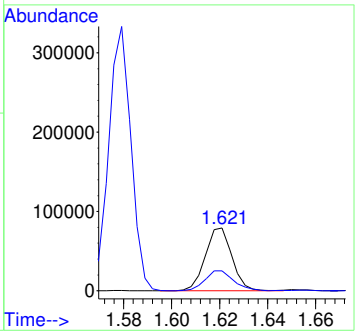


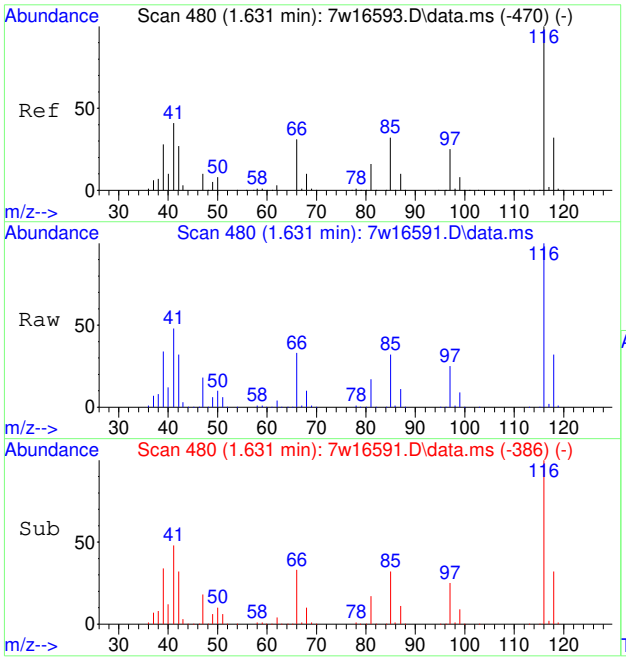


#4
CHLORODIFLUOROMETHANE
Concen: 19.91 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 61032

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

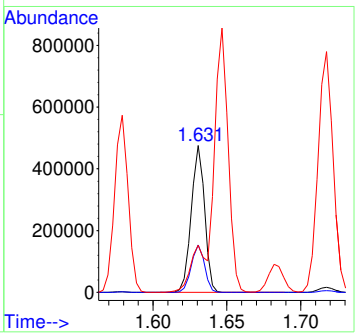


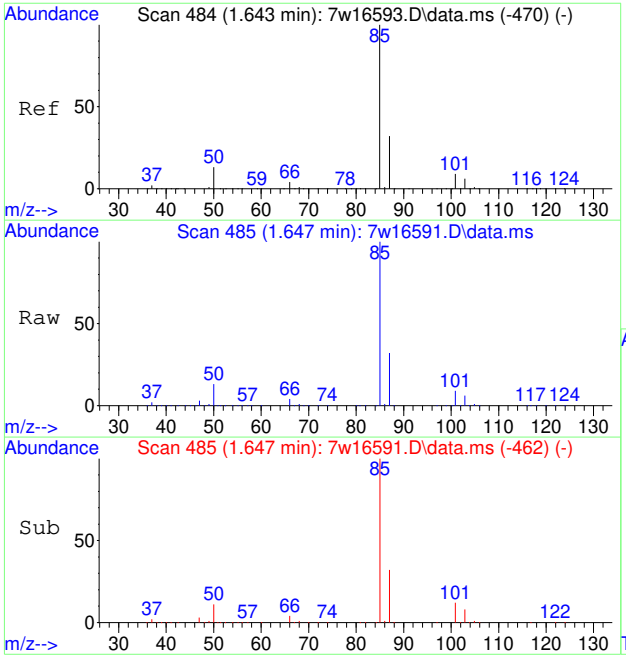


#5
CHLOROTRIFLUOROETHENE
Concen: 19.87 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:116 Resp: 298756

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	216.0	194.7	361.7

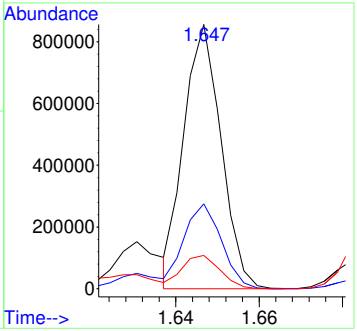


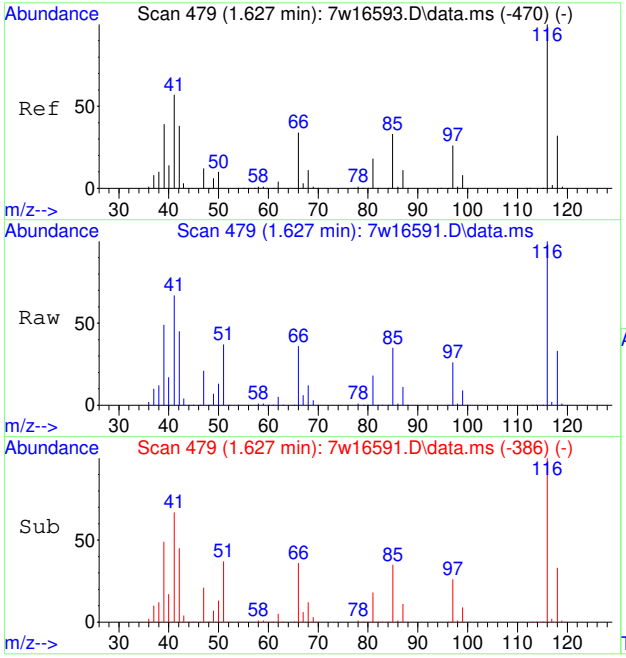


#6
DICHLORODIFLUOROMETHANE
Concen: 16.21 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 530689

Ion	Ratio	Lower	Upper
85	100		
87	39.5	23.1	42.9
50	23.2	12.1	22.5#

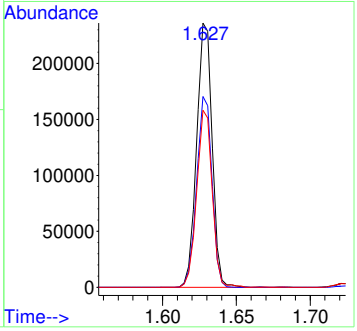


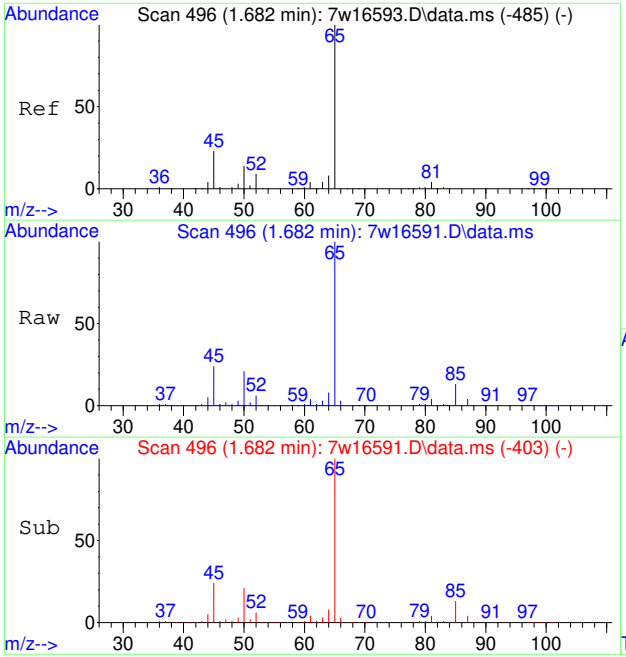


#7
PROPYLENE
Concen: 19.80 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 171796

Ion	Ratio	Lower	Upper
41	100		
39	71.5	51.0	94.8
42	66.7	46.6	86.6

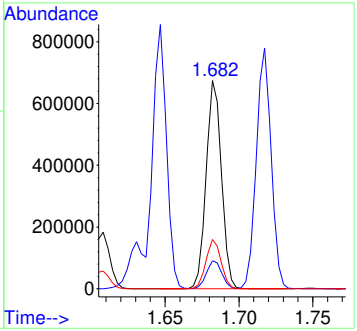


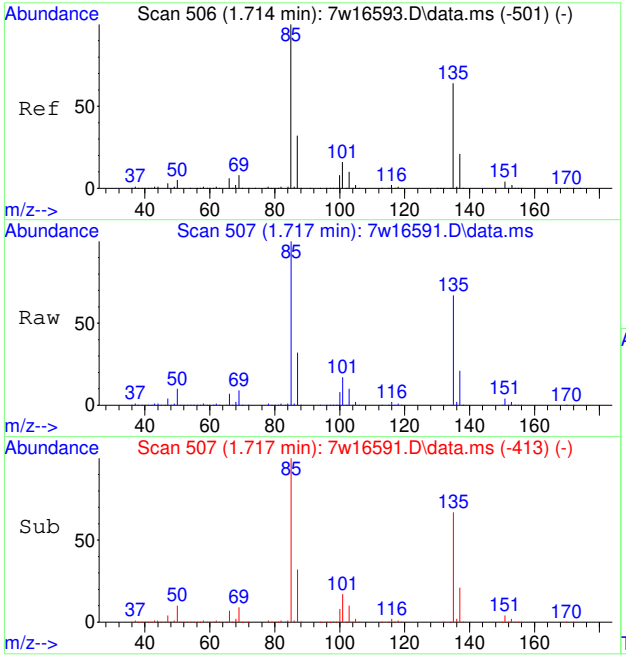


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 19.78 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 483910

Ion	Ratio	Lower	Upper
65	100		
85	13.6	9.7	17.9
45	23.5	17.0	31.6

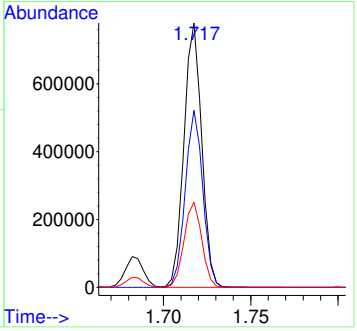


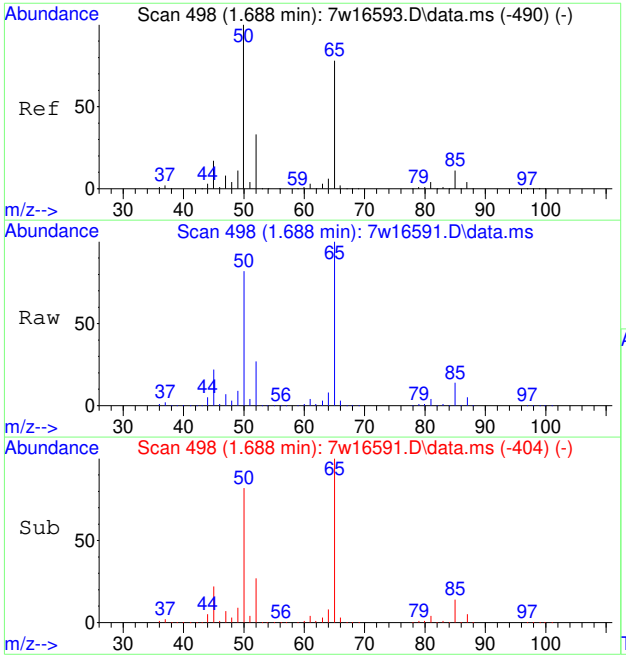


#9
FREON 114
Concen: 19.29 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 552603

Ion	Ratio	Lower	Upper
85	100		
135	66.3	61.3	113.9
87	32.2	23.2	43.0

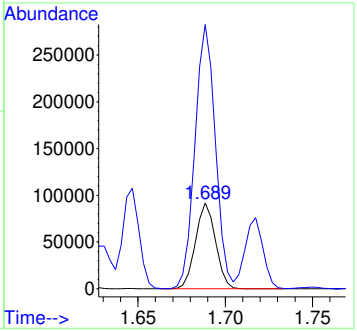


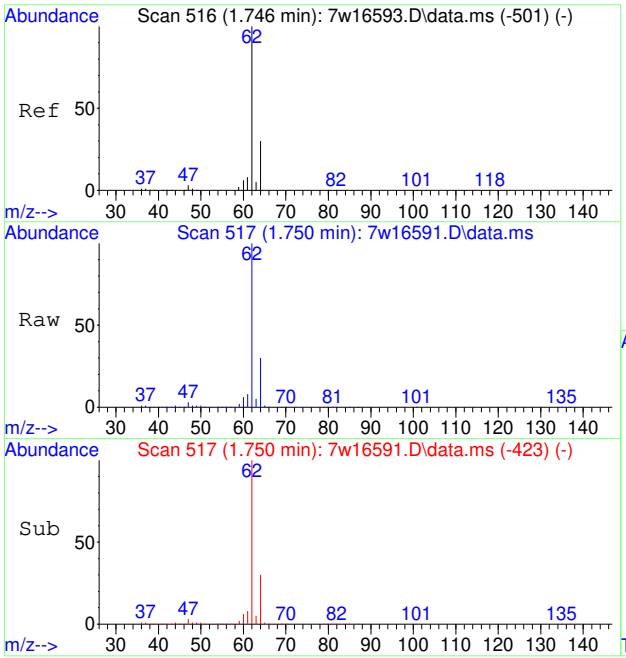


#10
CHLOROMETHANE
Concen: 19.85 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 73238

Ion	Ratio	Lower	Upper
52	100		
50	317.8	227.6	422.6

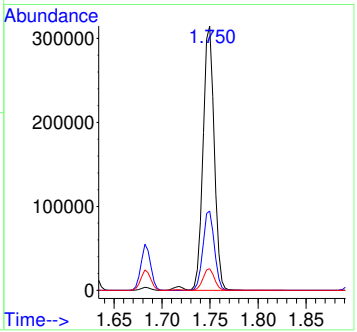


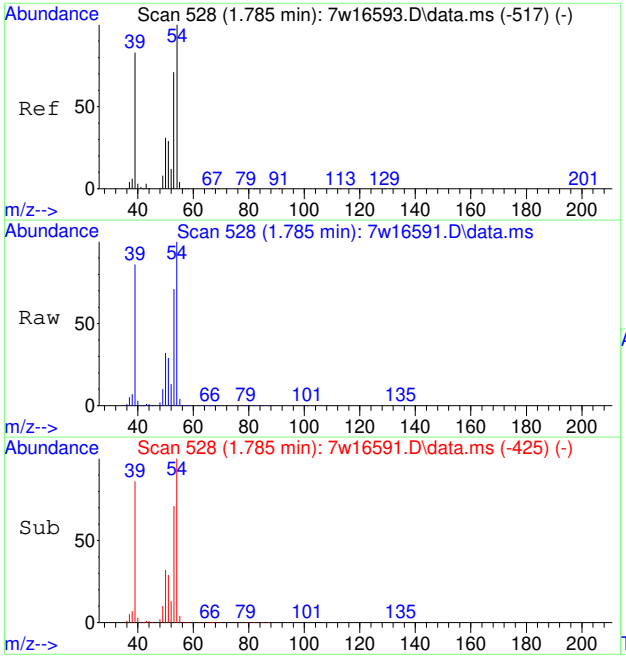


#11
VINYL CHLORIDE
Concen: 18.84 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 258206

Ion	Ratio	Lower	Upper
62	100		
64	30.4	21.6	40.2
61	8.5	5.7	10.7

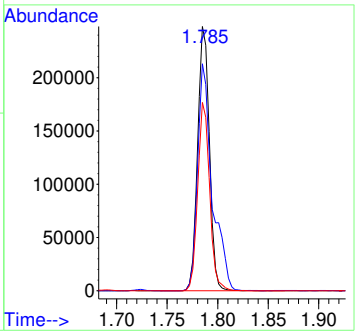


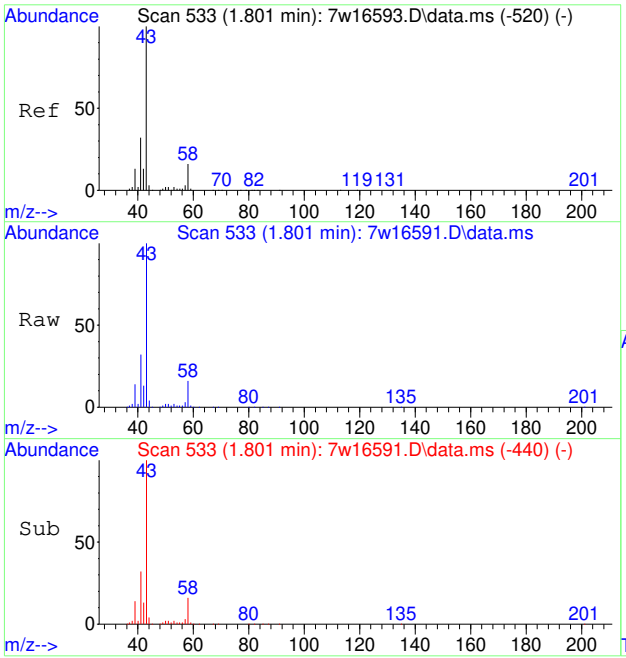


#12
1,3-BUTADIENE
Concen: 18.85 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 54 Resp: 200205

Ion	Ratio	Lower	Upper
54	100		
39	106.9	125.6	185.6#
53	72.3	40.7	100.7

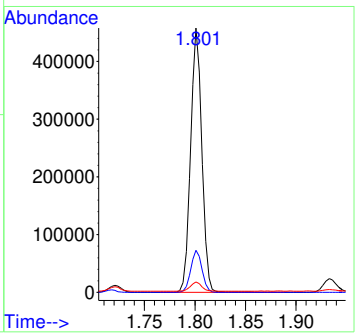


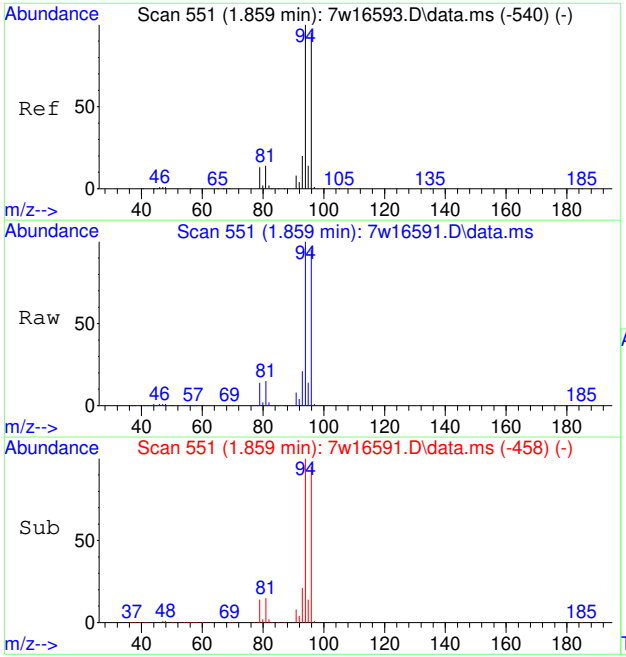


#13
N-BUTANE
Concen: 19.48 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 354476

Ion	Ratio	Lower	Upper
43	100		
58	16.0	10.4	19.4
44	3.6	3.0	5.6

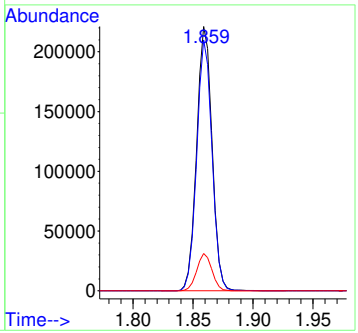


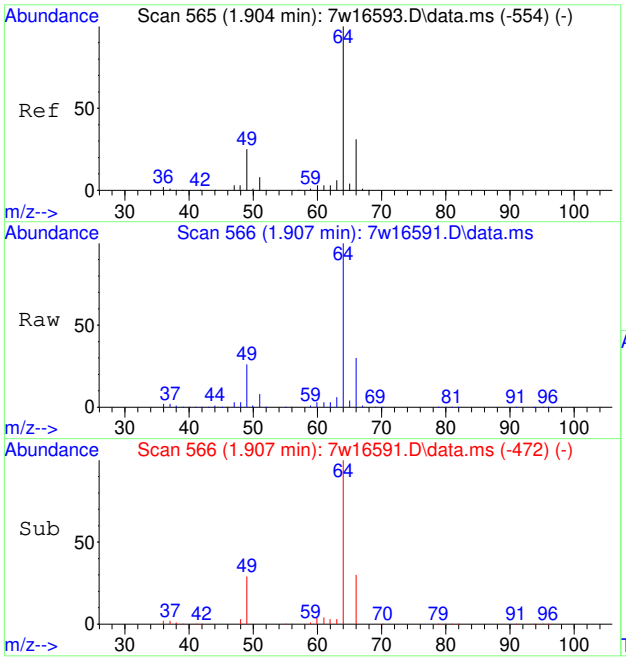


#14
BROMOMETHANE
Concen: 18.92 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 94 Resp: 197085

Ion	Ratio	Lower	Upper
94	100		
96	94.2	63.6	118.0
95	13.9	10.0	18.6

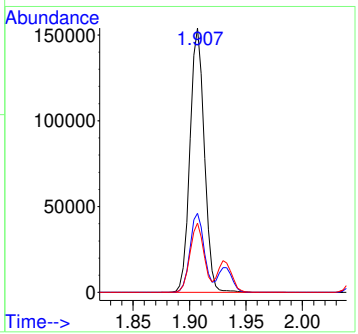


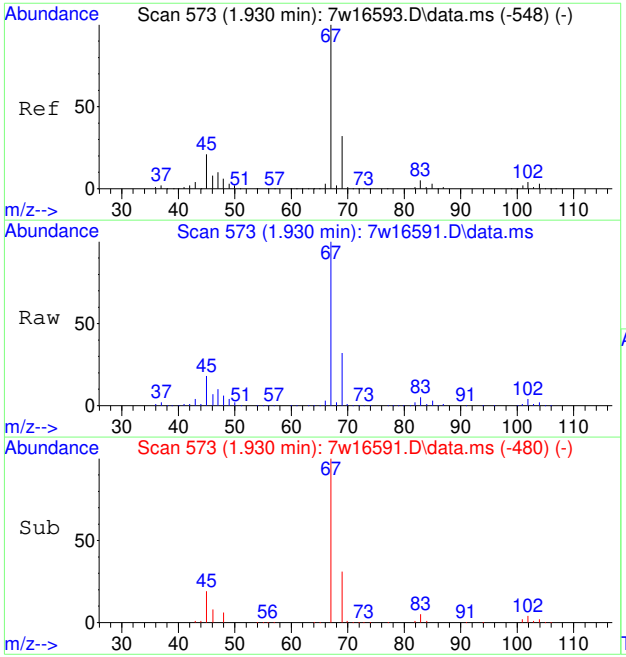


#15
CHLOROETHANE
Concen: 18.81 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 64 Resp: 136427

Ion	Ratio	Lower	Upper
64	100		
66	39.2	23.0	42.6
49	26.0	21.5	39.9

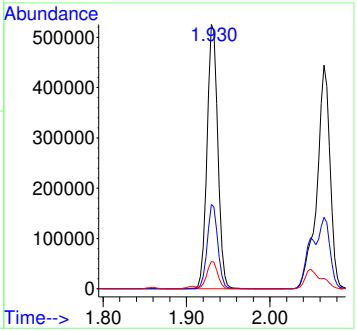


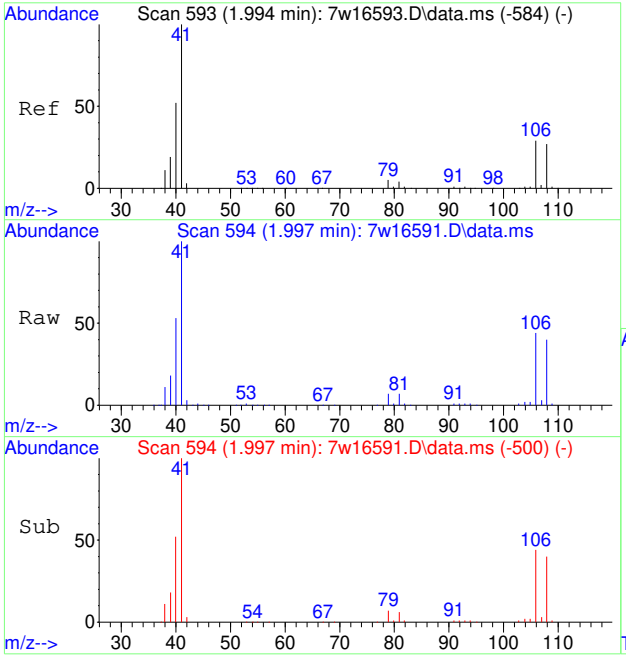


#16
DICHLOROFLUOROMETHANE
Concen: 18.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 473770

Ion	Ratio	Lower	Upper
67	100		
69	31.3	23.2	43.0
47	11.3	9.6	17.8

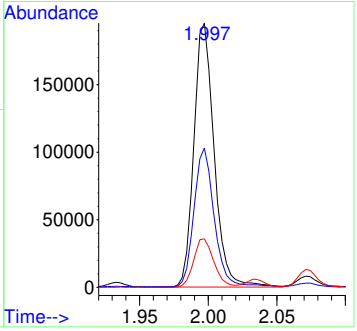


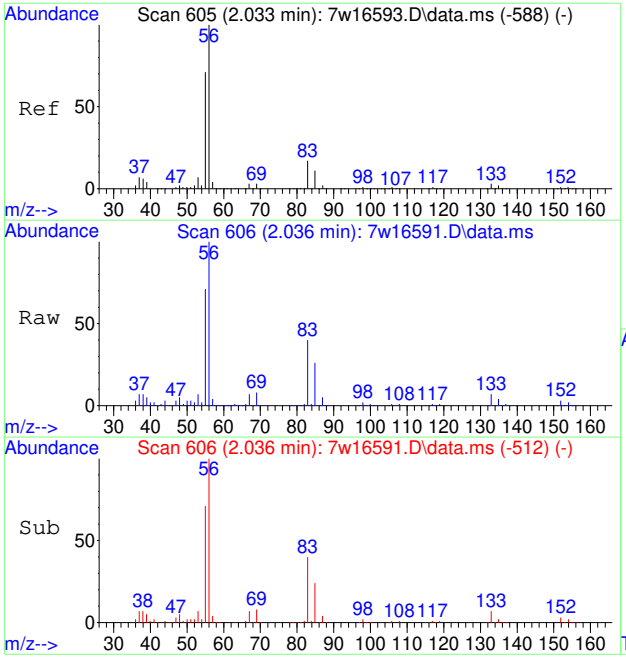


#17
ACETONITRILE
Concen: 17.69 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 201387

Ion	Ratio	Lower	Upper
41	100		
40	52.5	38.4	71.4
39	18.4	14.5	26.9

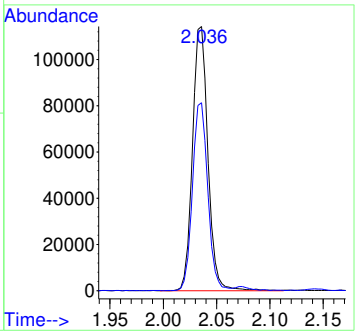


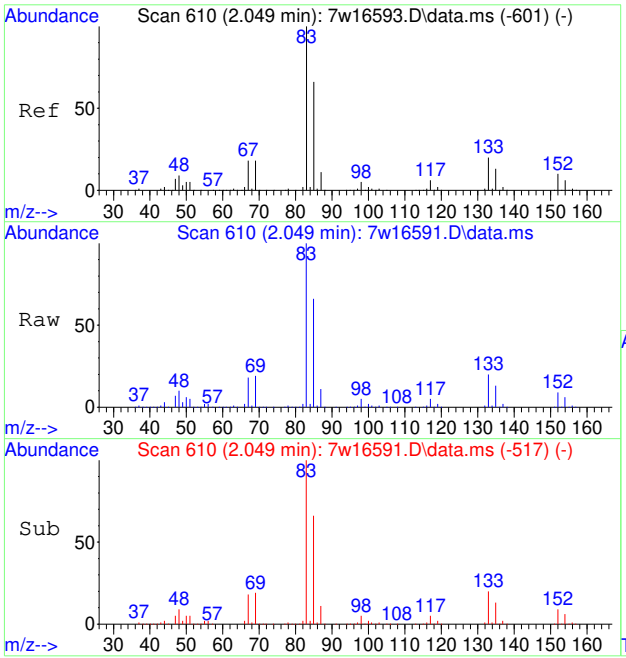


#18
ACROLEIN
Concen: 19.37 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 56 Resp: 114846

Ion	Ratio	Lower	Upper
56	100		
55	70.4	51.2	95.2

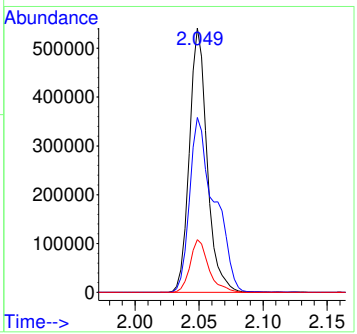


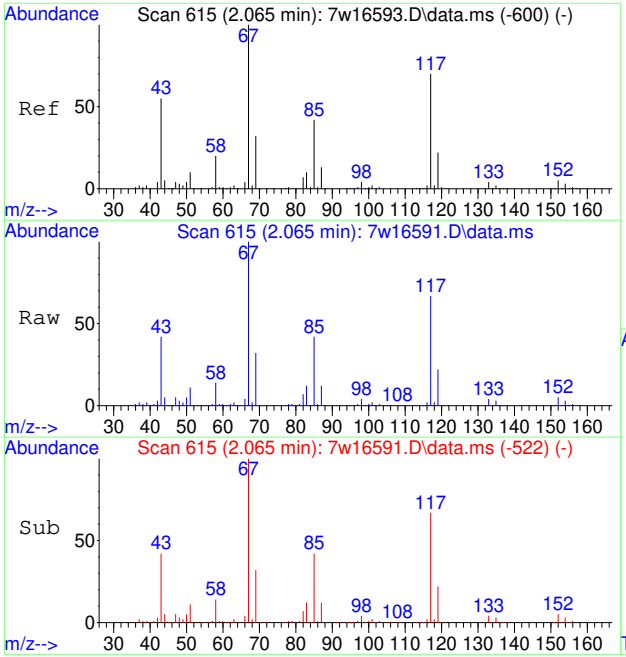


#19
FREON 123
Concen: 19.72 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 521378

Ion	Ratio	Lower	Upper
83	100		
85	92.8	65.7	121.9
133	21.0	19.9	36.9

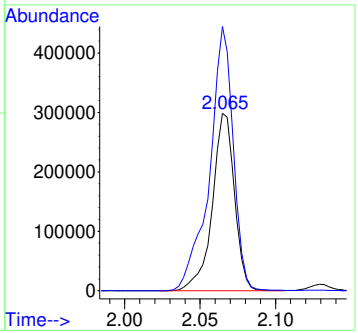


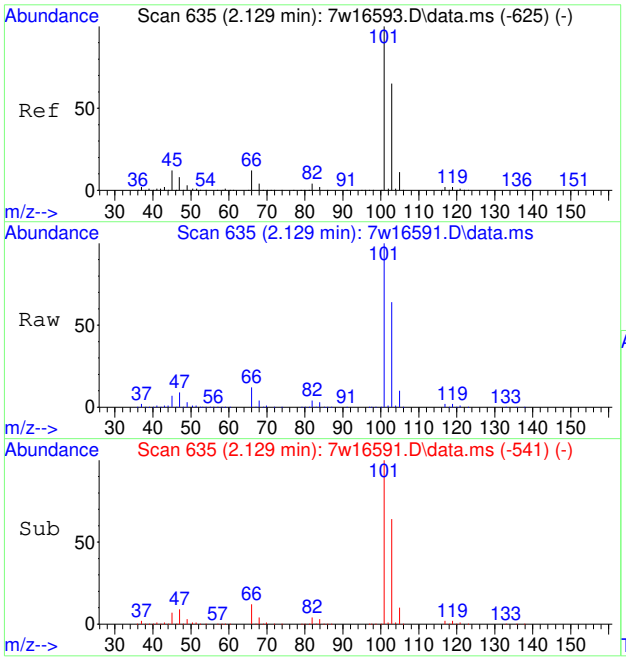


#20
FREON 123A
Concen: 19.66 PPBV m
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 305527

Ion	Ratio	Lower	Upper
117	100		
67	0.0	78.8	146.4#

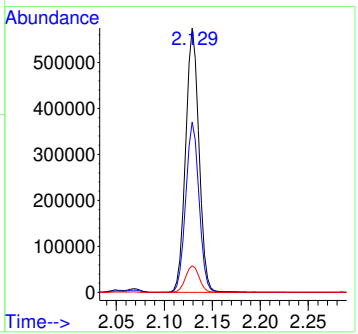


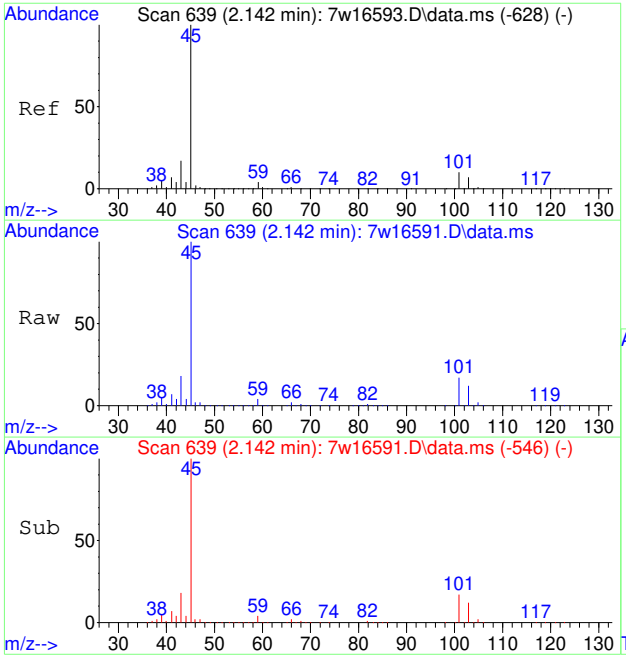


#21
TRICHLOROFLUOROMETHANE
Concen: 18.45 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:101 Resp: 556426

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.3	82.3
105	10.4	7.3	13.7

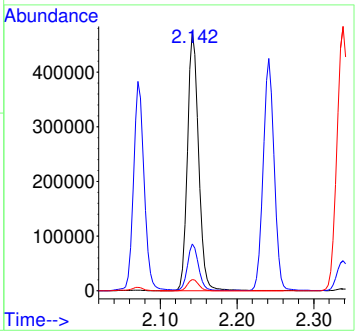


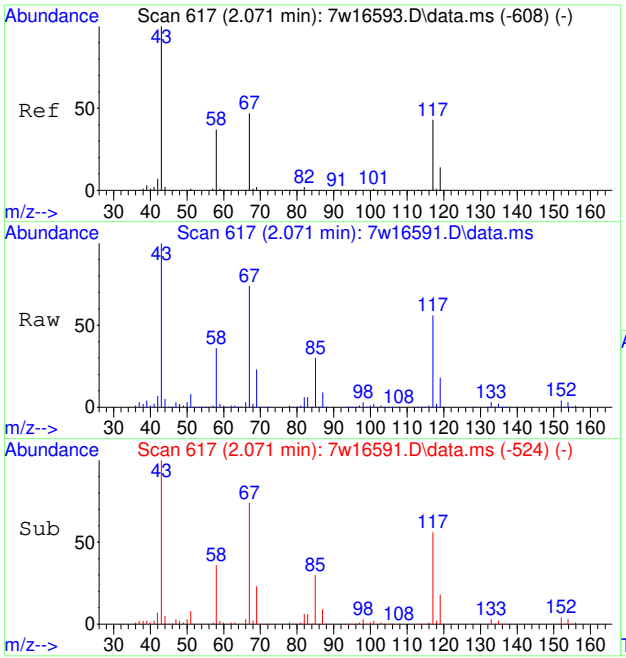


#22
ISOPROPYL ALCOHOL
Concen: 18.98 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 474515

Ion	Ratio	Lower	Upper
45	100		
43	18.1	17.1	31.9
59	4.5	3.1	5.8

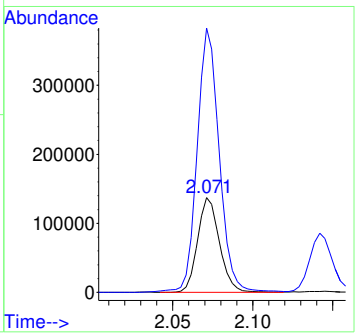


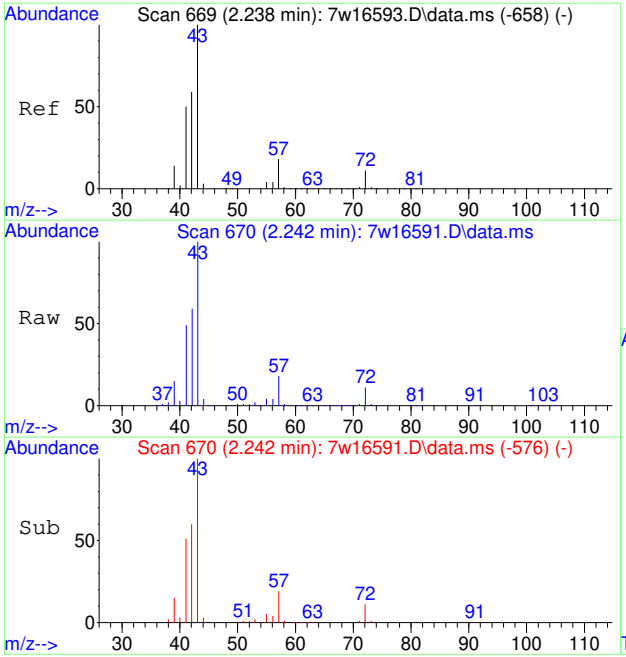


#23
ACETONE
Concen: 18.71 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 129681

Ion	Ratio	Lower	Upper
58	100		
43	282.9	254.0	471.6

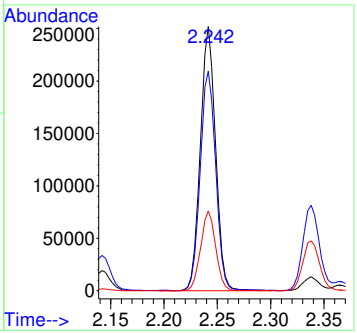


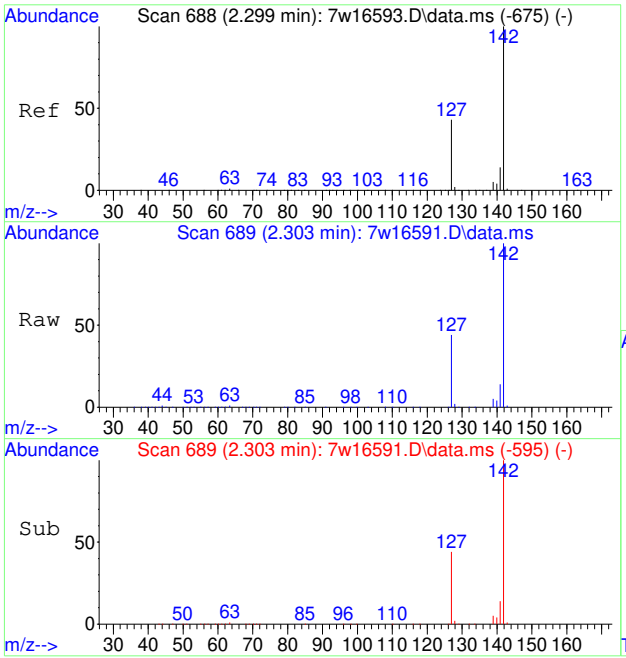


#24
PENTANE
Concen: 19.26 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 42 Resp: 249050

Ion	Ratio	Lower	Upper
42	100		
41	84.6	69.2	128.6
57	30.3	18.6	34.6

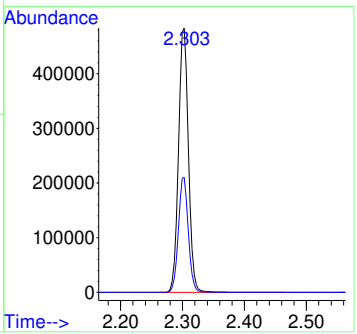


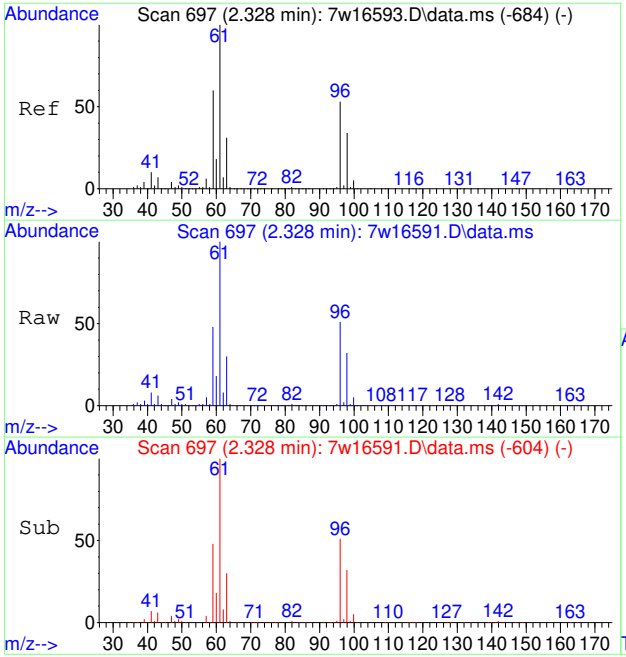


#25
IODOMETHANE
Concen: 19.59 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:142 Resp: 541893

Ion	Ratio	Lower	Upper
142	100		
127	43.5	32.1	59.7

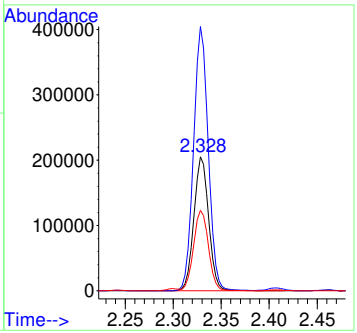


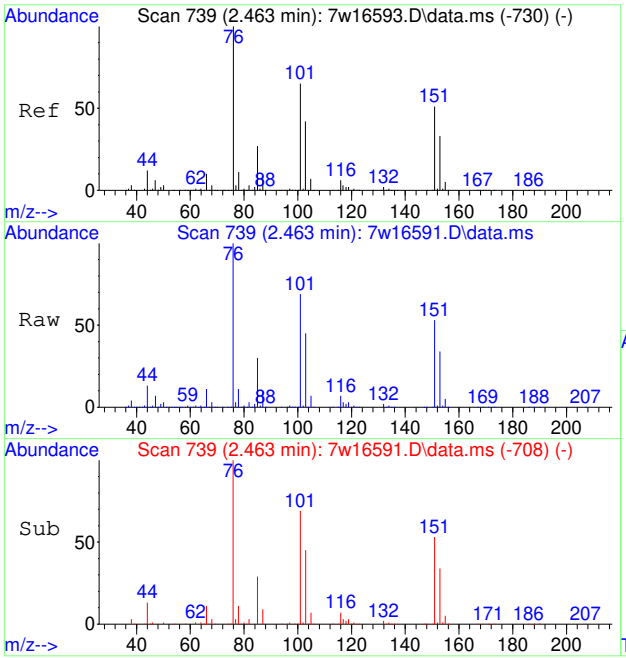


#26
1,1-DICHLOROETHYLENE
Concen: 19.61 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 219577

Ion	Ratio	Lower	Upper
96	100		
61	196.0	98.3	182.5#
63	62.1	33.2	61.7#

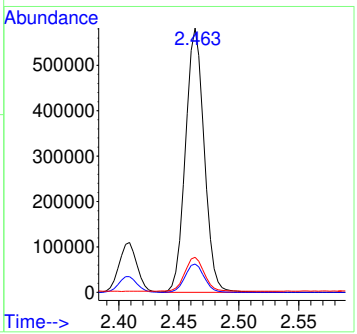


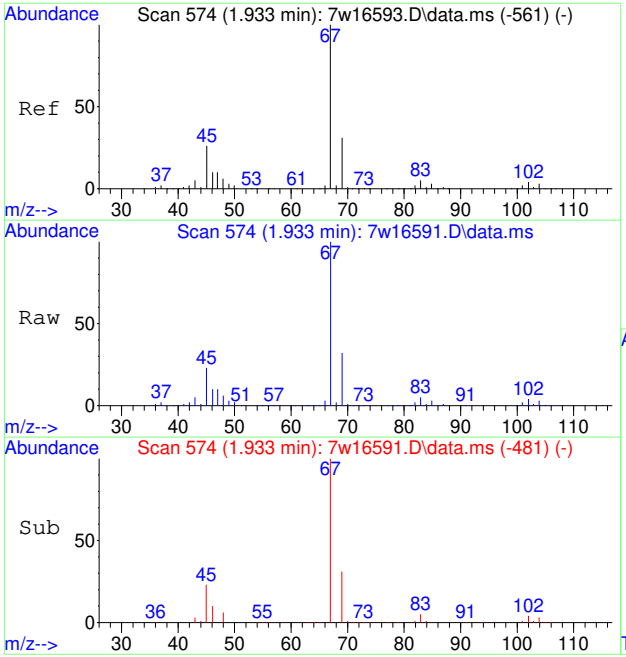


#27
CARBON DISULFIDE
Concen: 19.43 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 631688

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	13.5	13.0	24.1

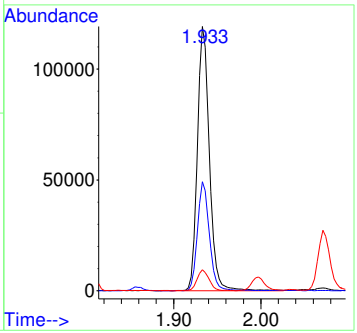


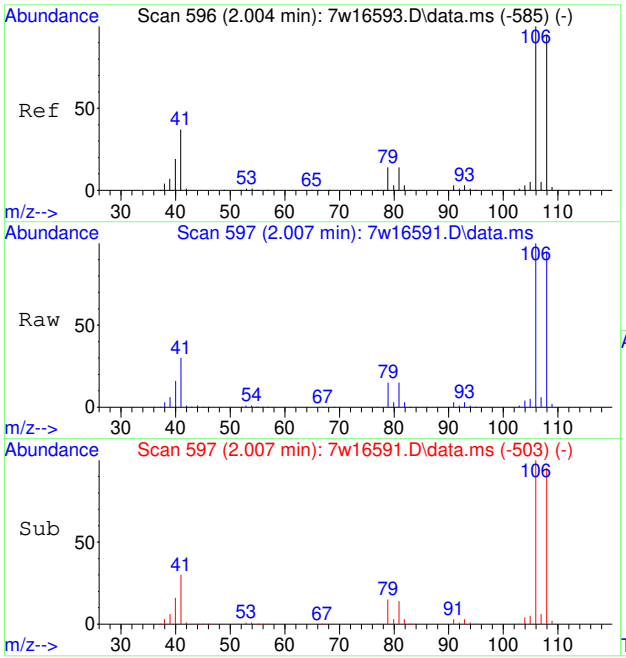


#28
ETHANOL
Concen: 17.84 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 114301

Ion	Ratio	Lower	Upper
45	100		
46	41.1	29.7	55.1
42	7.9	7.3	13.5

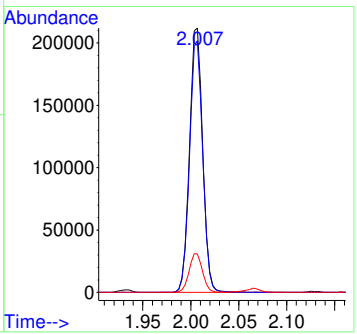


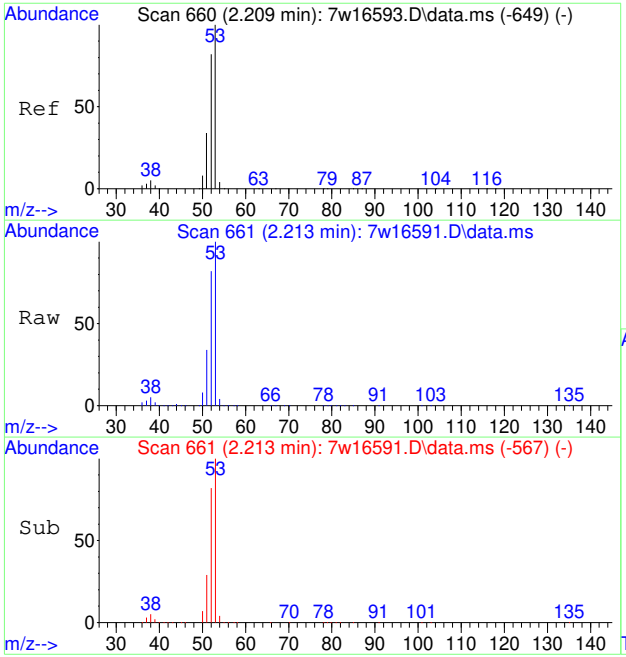


#29
BROMOETHENE
Concen: 18.58 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:106 Resp: 202351

Ion	Ratio	Lower	Upper
106	100		
108	94.8	68.3	126.8
81	15.0	14.7	27.3

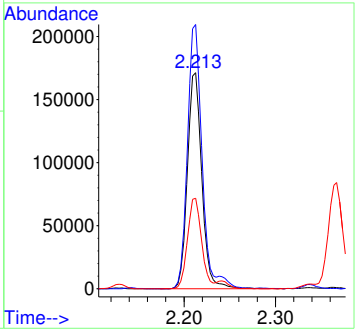


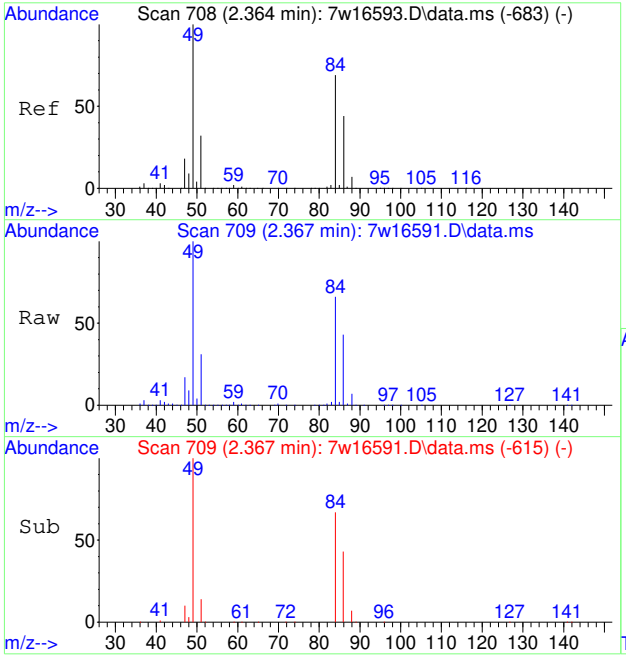


#30
ACRYLONITRILE
Concen: 19.57 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 187985

Ion	Ratio	Lower	Upper
52	100		
53	124.7	86.3	160.3
51	44.3	33.6	62.4

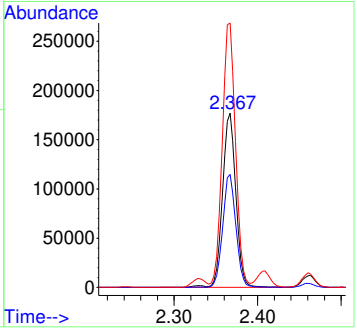


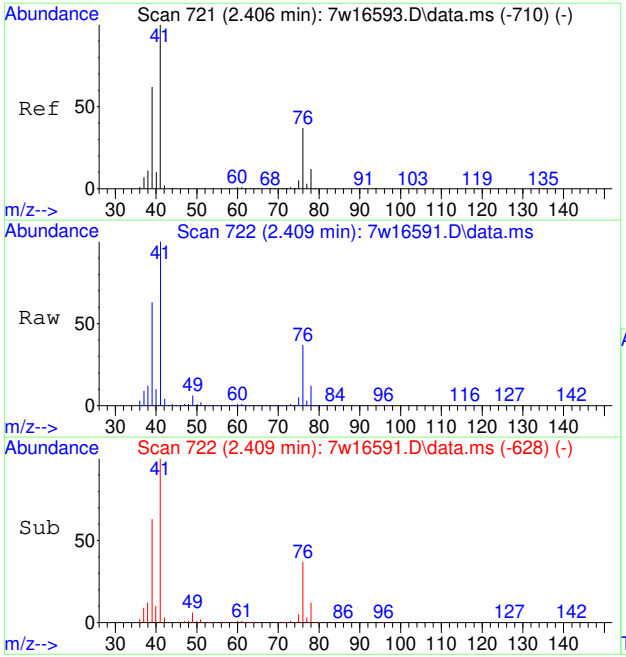


#31
METHYLENE CHLORIDE
Concen: 18.45 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 196005

Ion	Ratio	Lower	Upper
84	100		
86	64.3	44.9	83.5
49	151.2	79.7	148.1#

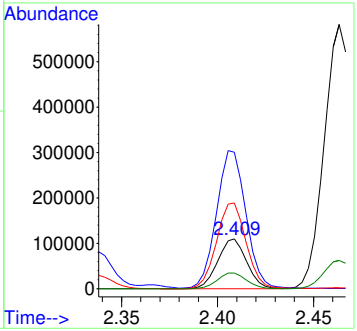


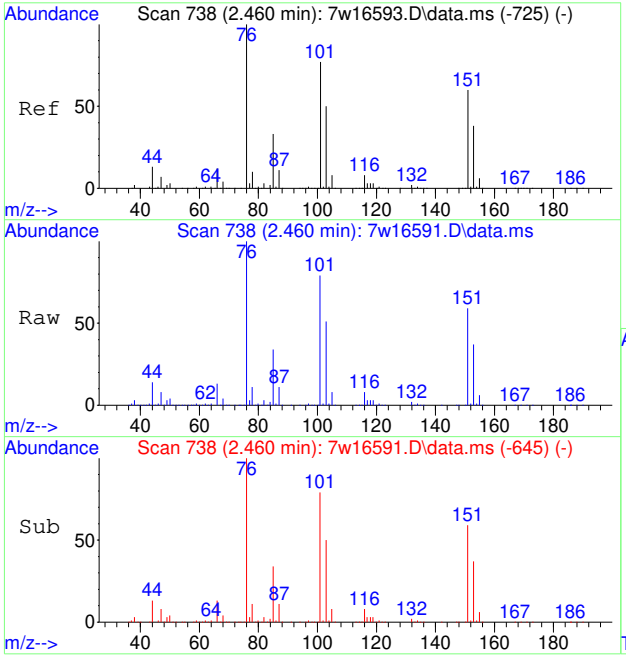


#32
3-CHLOROPROPENE
Concen: 18.95 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 114925

Ion	Ratio	Lower	Upper
76	100		
41	283.8	160.9	298.9
39	176.4	150.7	279.9
78	32.4	22.7	42.1

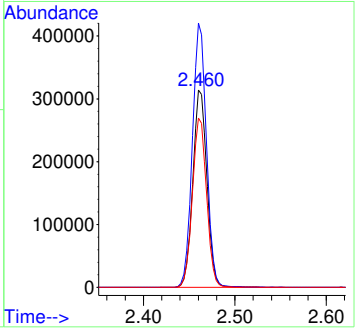


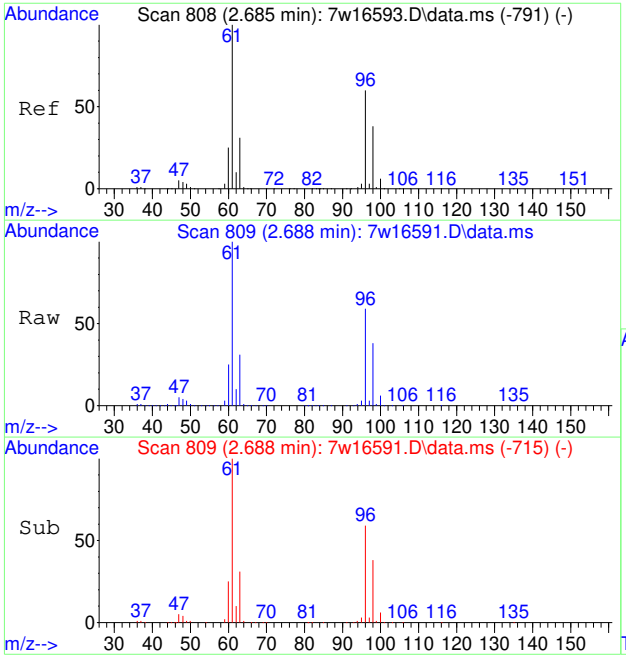


#33
FREON 113
Concen: 19.33 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:151 Resp: 337394

Ion	Ratio	Lower	Upper
151	100		
101	133.1	81.1	150.7
103	86.2	51.4	95.4

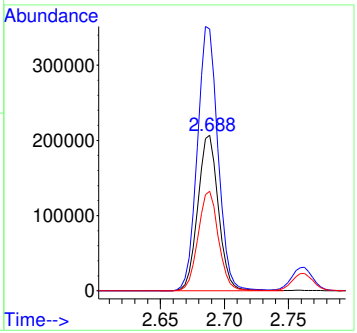


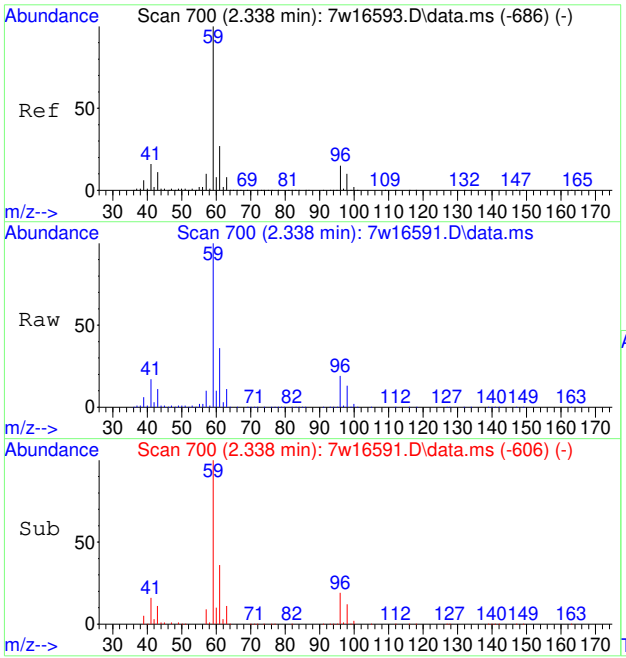


#34
TRANS-1,2-DICHLOROETHENE
Concen: 18.75 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 231431

Ion	Ratio	Lower	Upper
96	100		
61	170.1	78.5	145.9#
98	63.6	46.5	86.3

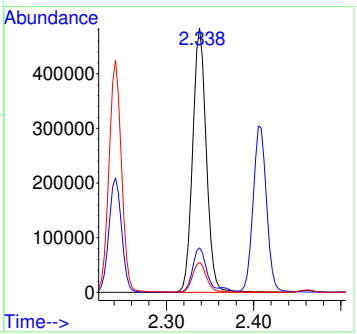


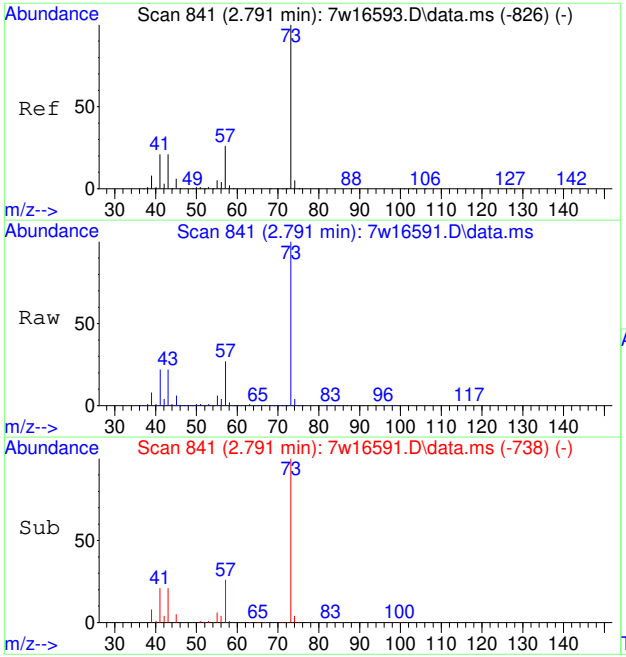


#35
TERTIARY BUTYL ALCOHOL
Concen: 17.25 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 526848

Ion	Ratio	Lower	Upper
59	100		
41	18.2	15.3	28.5
43	11.7	12.3	22.9#

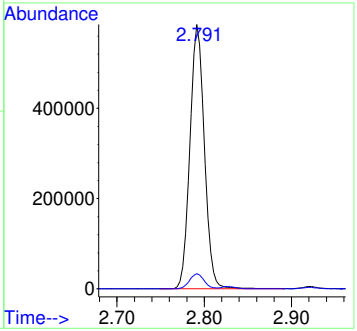


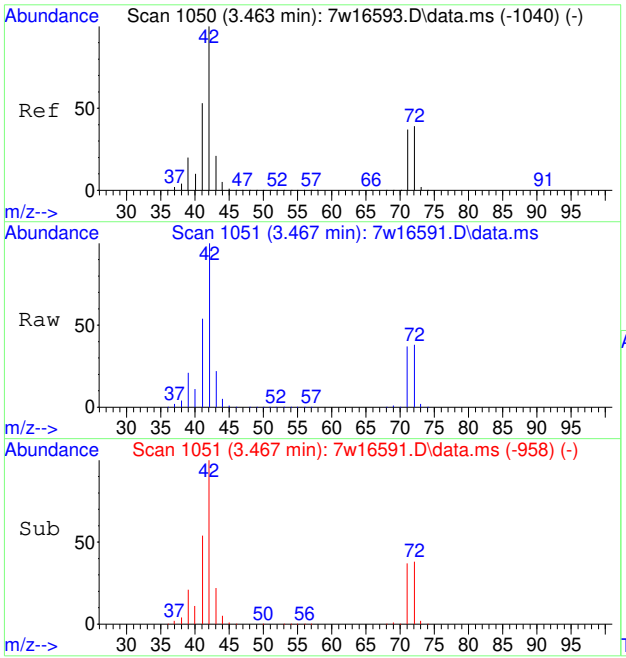


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.29 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 73 Resp: 677061

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

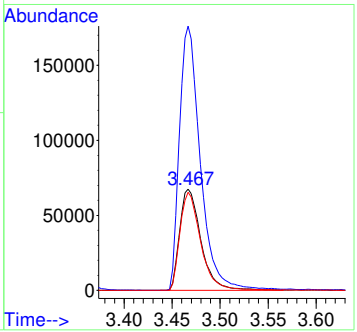


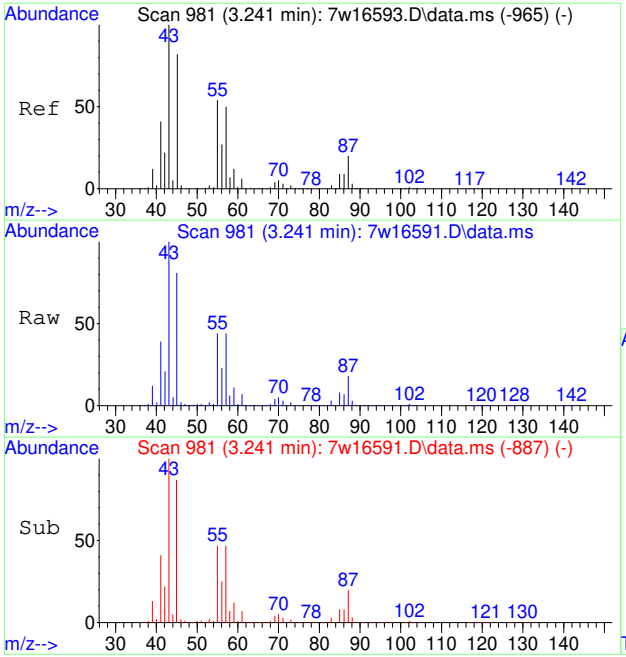


#37
TETRAHYDROFURAN
Concen: 17.84 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 104573

Ion	Ratio	Lower	Upper
72	100		
42	257.1	153.0	284.2
71	95.4	62.7	116.5

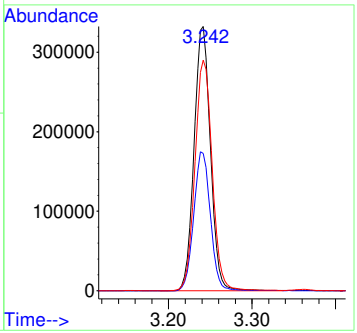


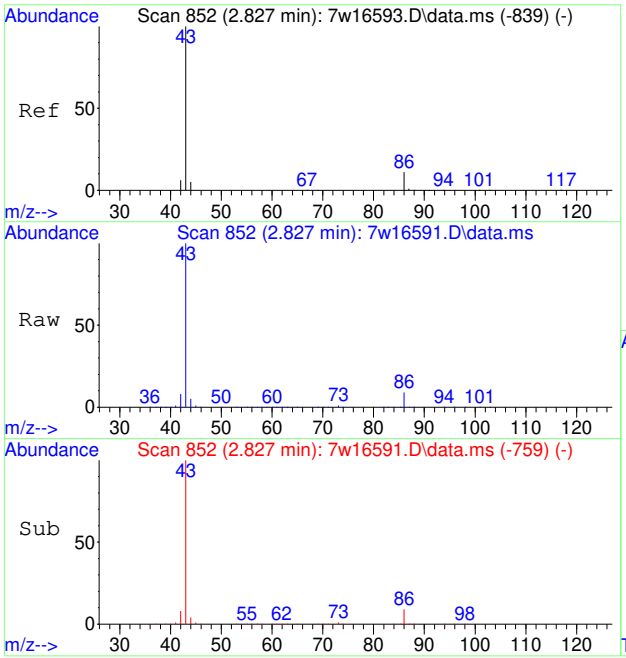


#38
HEXANE
Concen: 19.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 453219

Ion	Ratio	Lower	Upper
57	100		
56	53.6	37.3	69.3
41	92.0	86.7	161.1

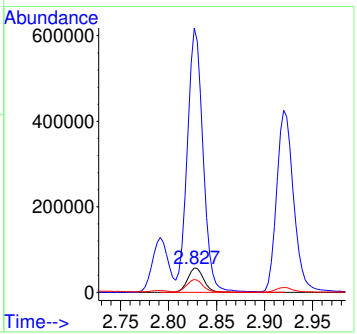


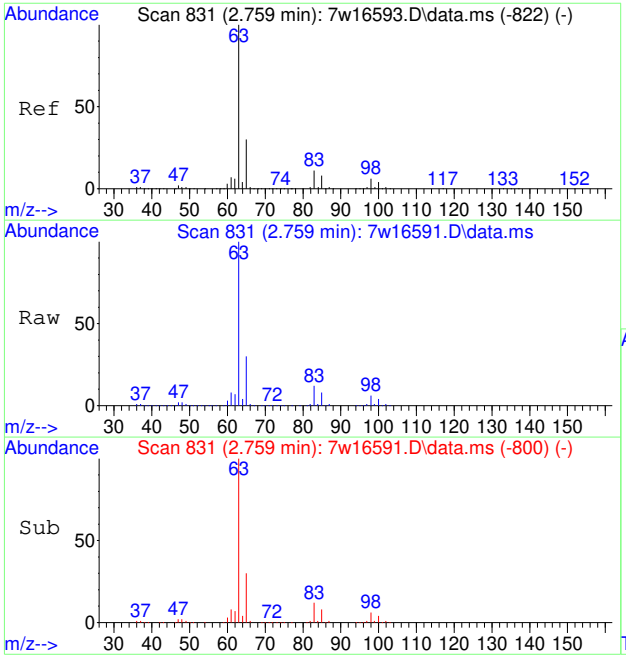


#39
VINYL ACETATE
Concen: 19.48 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 86 Resp: 66441

Ion	Ratio	Lower	Upper
86	100		
43	1069.2	667.9	1240.3
44	51.6	32.7	60.7

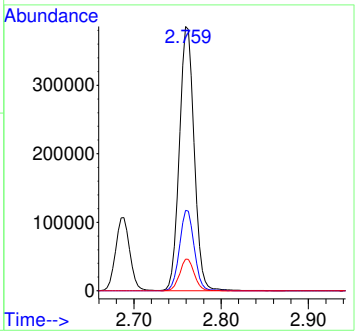


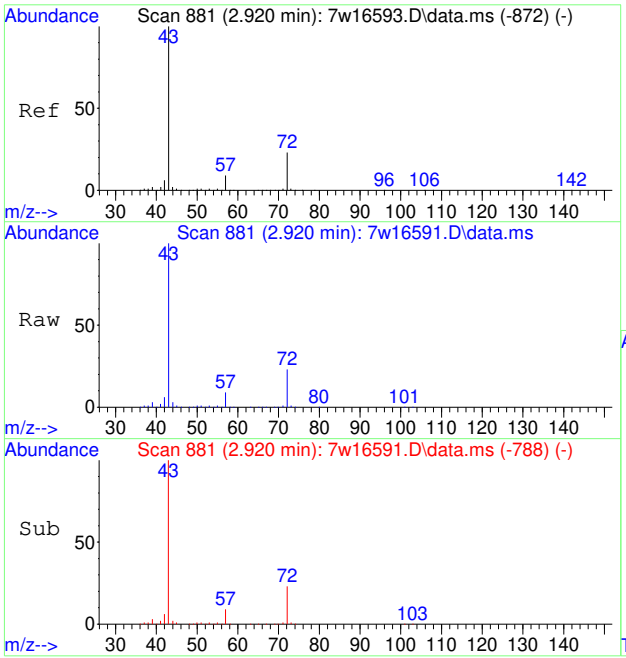


#40
1,1-DICHLOROETHANE
Concen: 18.70 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 455143

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.8	40.6
83	12.0	10.6	19.6

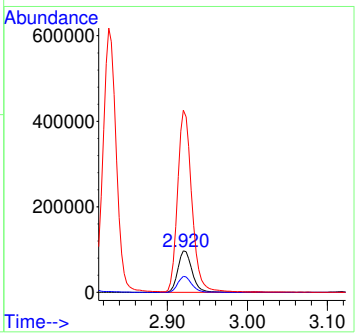


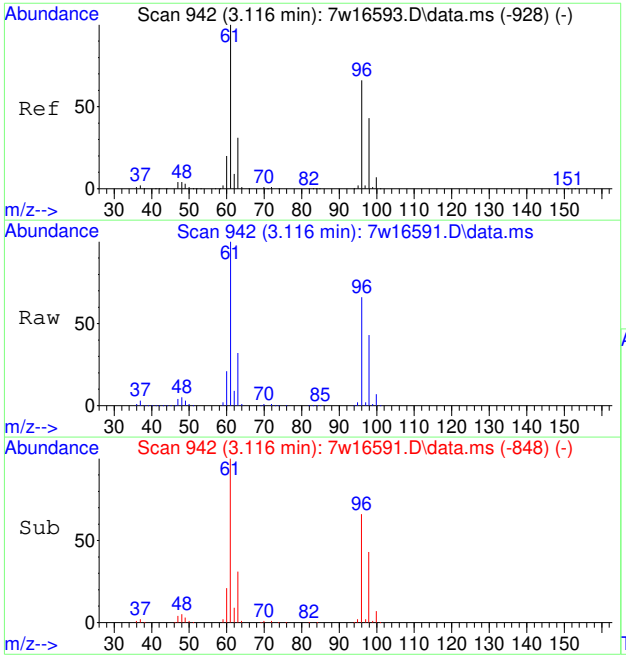


#41
METHYL ETHYL KETONE
Concen: 19.21 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 120276

Ion	Ratio	Lower	Upper
72	100		
57	38.0	20.3	37.7#
43	440.9	282.8	525.2

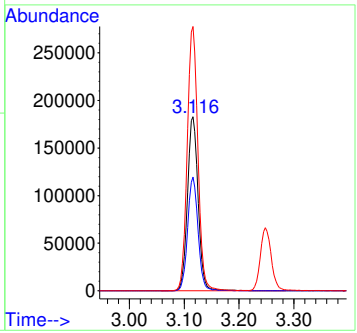


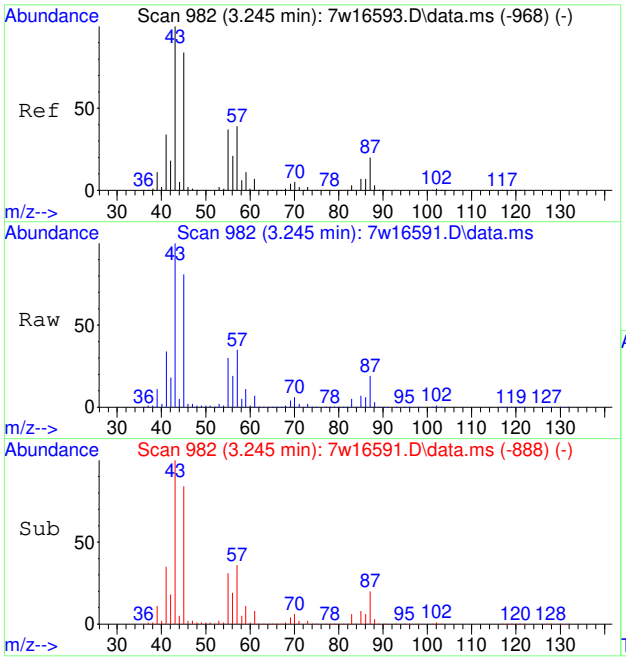


#42
CIS-1,2-DICHLOROETHENE
Concen: 19.20 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 246893

Ion	Ratio	Lower	Upper
96	100		
98	64.1	46.8	86.8
61	152.2	78.3	145.5#

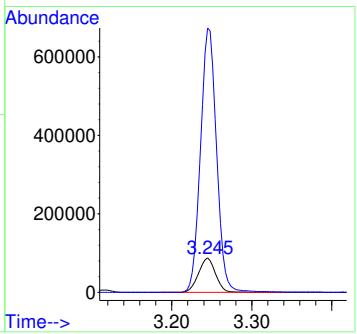


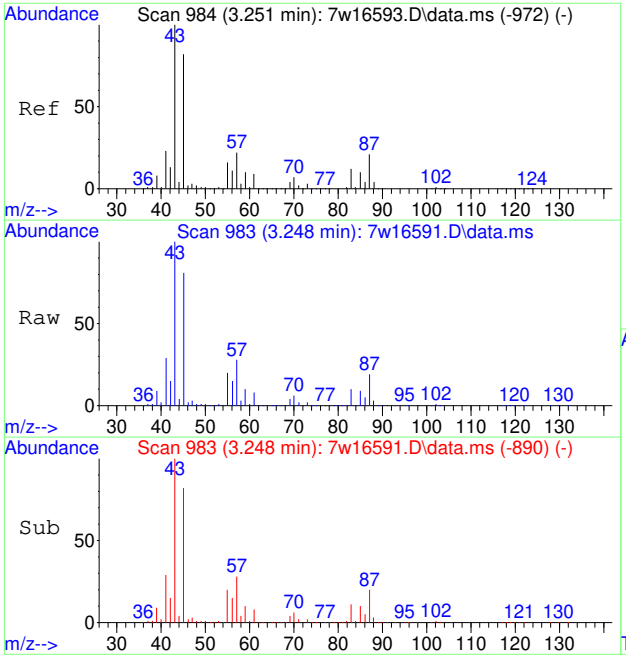


#43
DIISOPROPYL ETHER
Concen: 19.57 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 130636

Ion	Ratio	Lower	Upper
59	100		
45	725.2	532.1	988.1

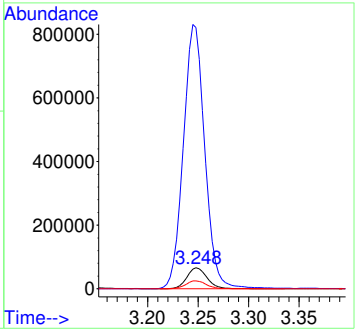


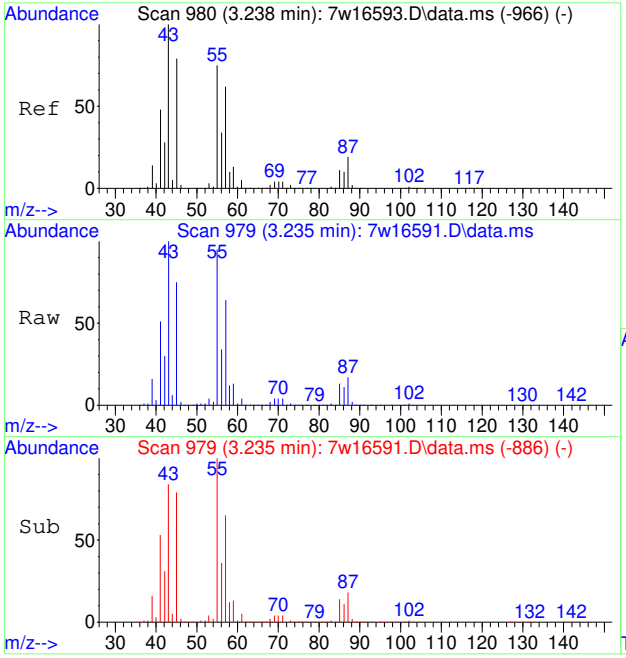


#44
ETHYL ACETATE
Concen: 19.72 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 61 Resp: 93045

Ion	Ratio	Lower	Upper
61	100		
43	1321.4	1127.5	2093.9
88	38.9	36.2	67.2

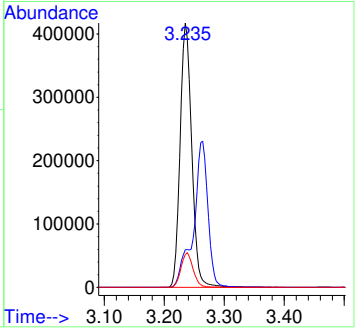


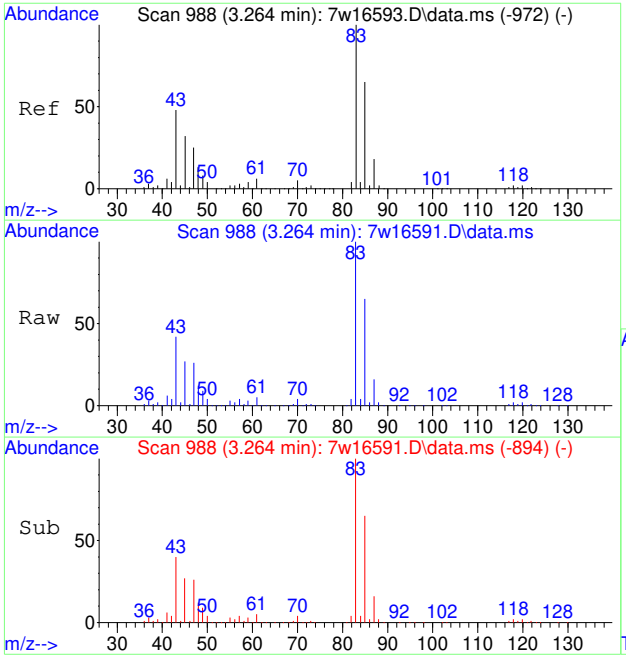


#45
METHYL ACRYLATE
Concen: 19.52 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 561273

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.2	17.0

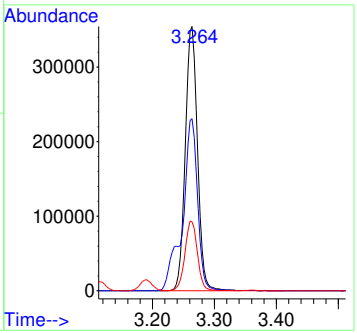


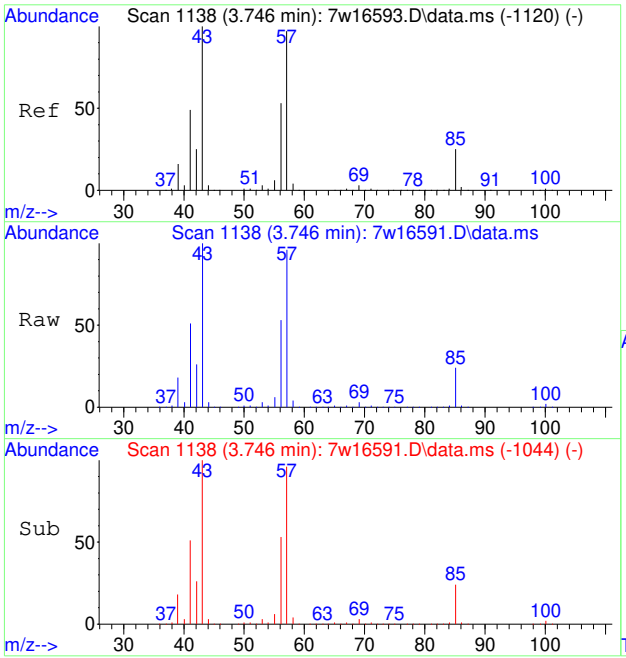


#46
CHLOROFORM
Concen: 19.05 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 484502

Ion	Ratio	Lower	Upper
83	100		
85	80.5	54.6	101.4
47	27.1	17.9	33.3

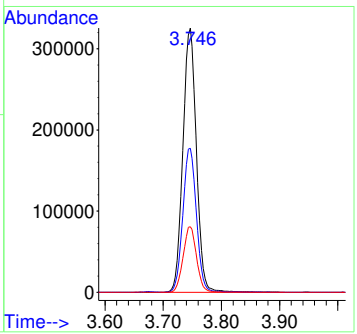


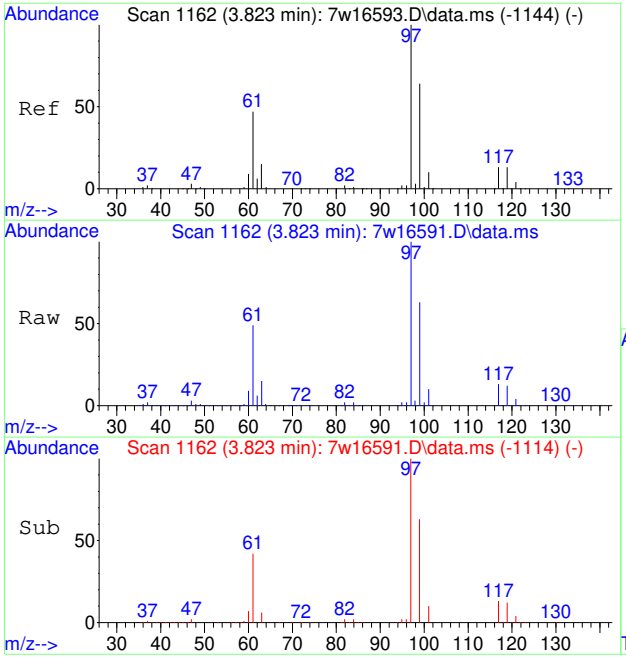


#47
2,4-DIMETHYLPENTANE
Concen: 19.82 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 525364

Ion	Ratio	Lower	Upper
57	100		
56	55.2	39.2	72.8
85	24.9	24.1	44.7

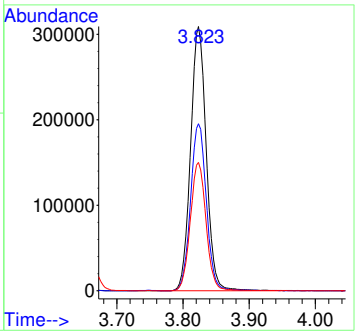


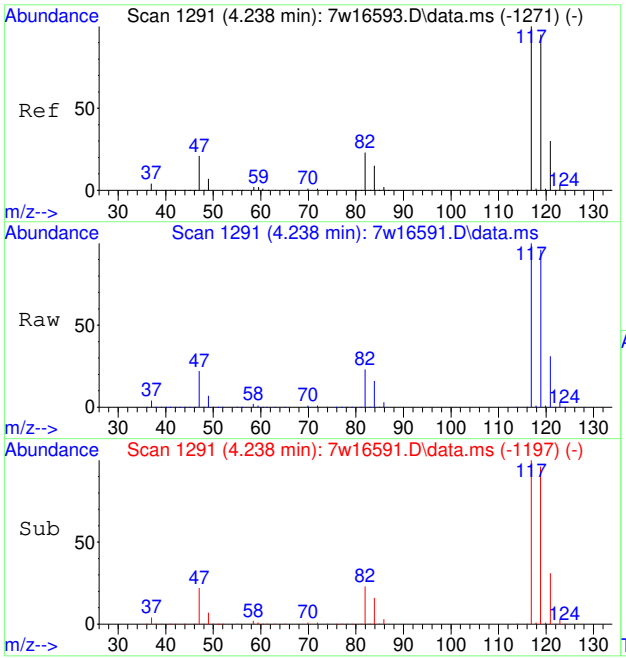


#48
1,1,1-TRICHLOROETHANE
Concen: 19.19 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 97 Resp: 508992

Ion	Ratio	Lower	Upper
97	100		
99	64.0	44.9	83.5
61	48.9	28.6	53.0

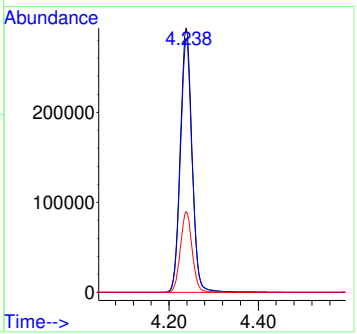


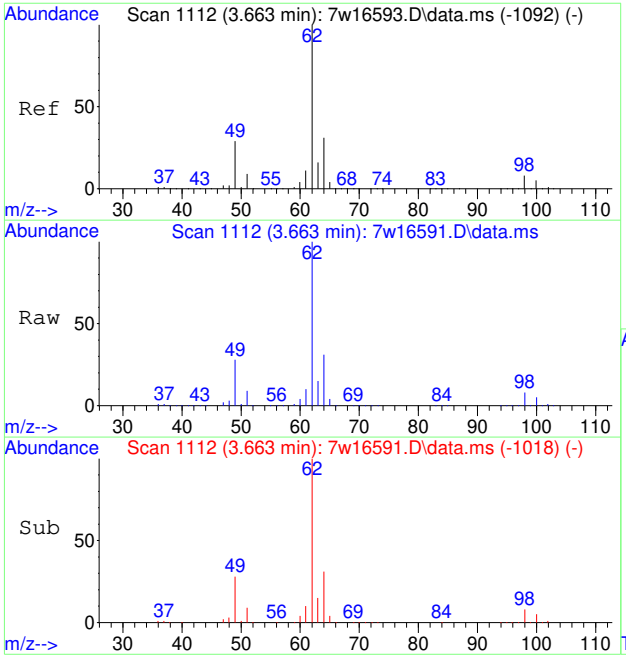


#49
CARBON TETRACHLORIDE
Concen: 18.95 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 536446

Ion	Ratio	Lower	Upper
117	100		
119	95.9	68.8	127.8
121	30.7	22.2	41.2

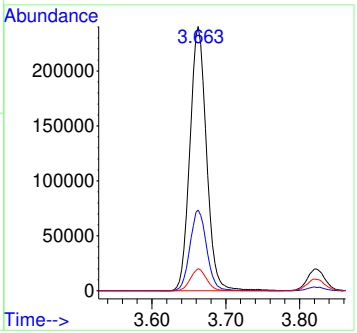


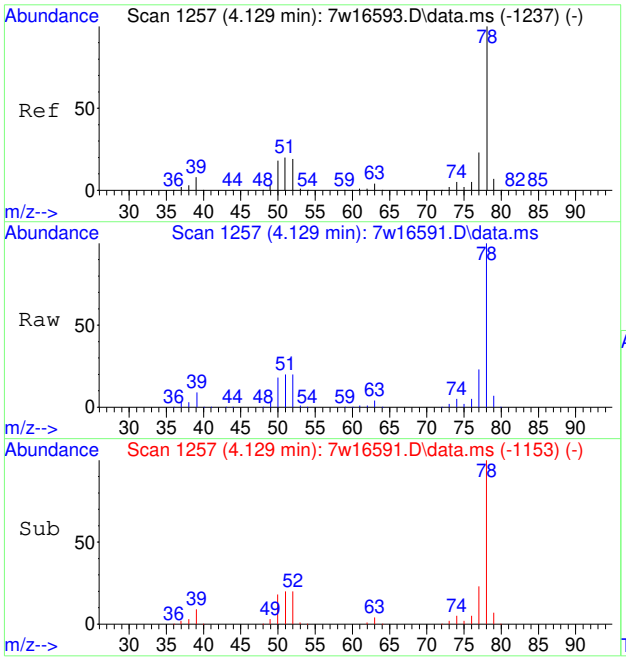


#50
1,2-DICHLOROETHANE
Concen: 18.79 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 375248

Ion	Ratio	Lower	Upper
62	100		
64	31.0	22.5	41.7
98	8.2	6.8	12.6

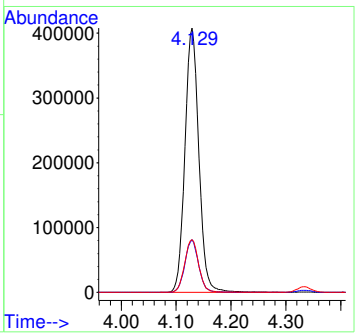


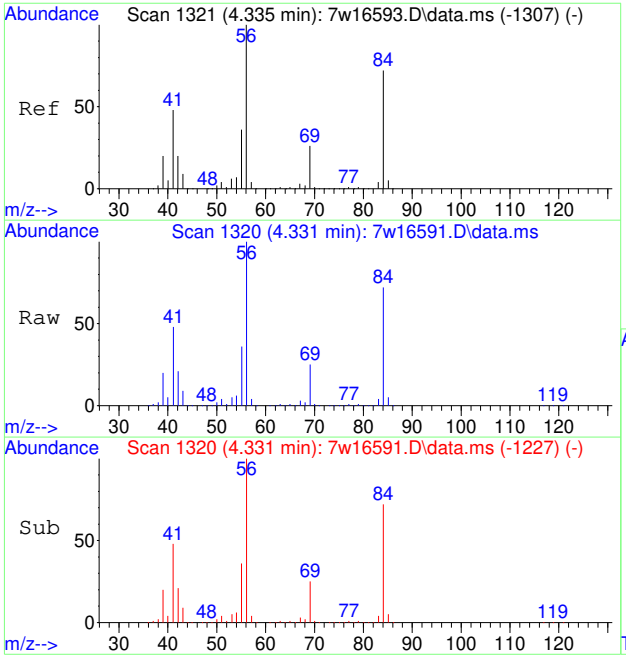


#51
BENZENE
Concen: 19.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 78 Resp: 718150

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	44.6
51	20.1	0.0	47.3

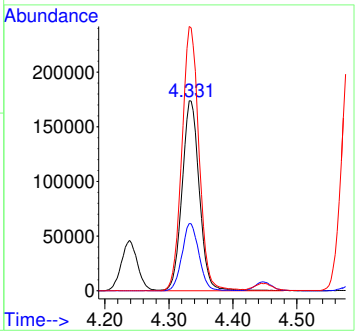


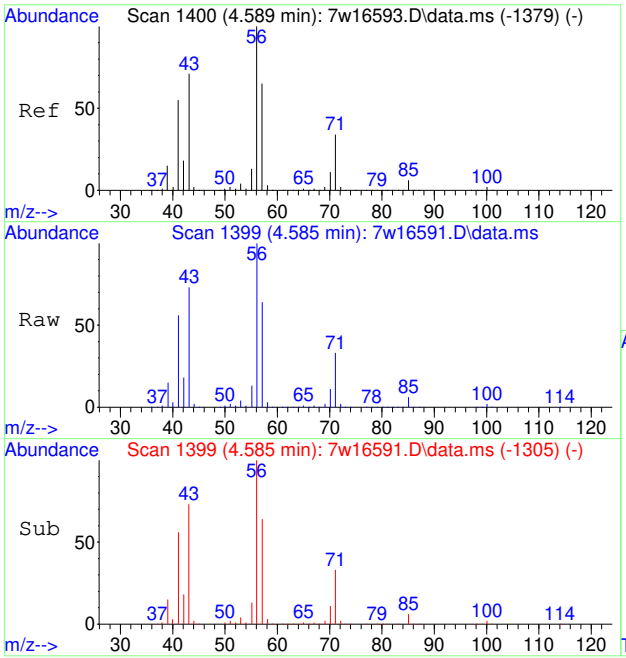


#53
CYCLOHEXANE
Concen: 19.45 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 325475

Ion	Ratio	Lower	Upper
84	100		
69	35.0	22.3	41.5
56	137.7	70.2	130.4#

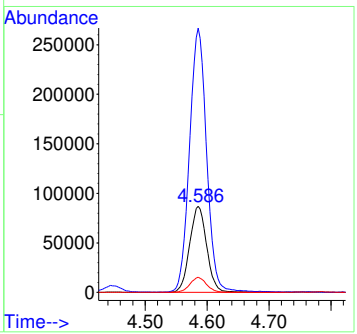


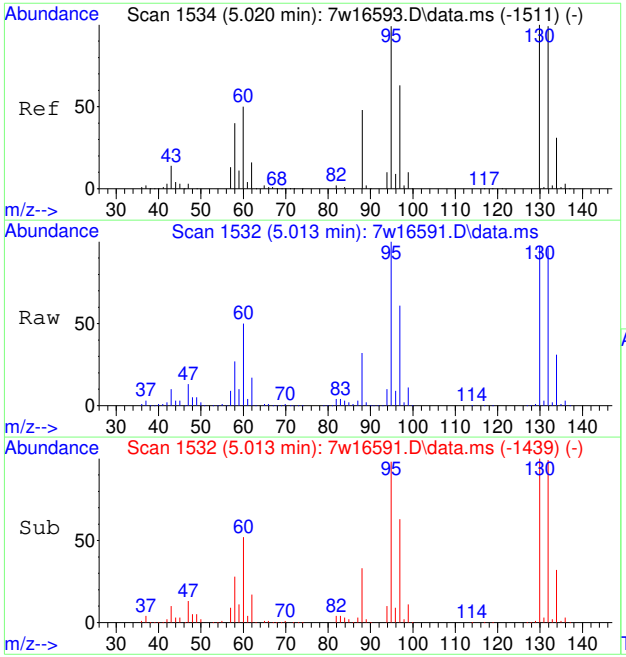


#54
2,3-DIMETHYLPENTANE
Concen: 19.60 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 71 Resp: 167011

Ion	Ratio	Lower	Upper
71	100		
56	306.1	171.4	318.4
85	17.4	12.6	23.4

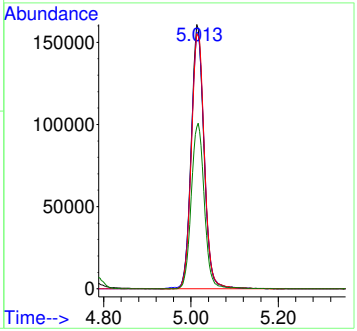


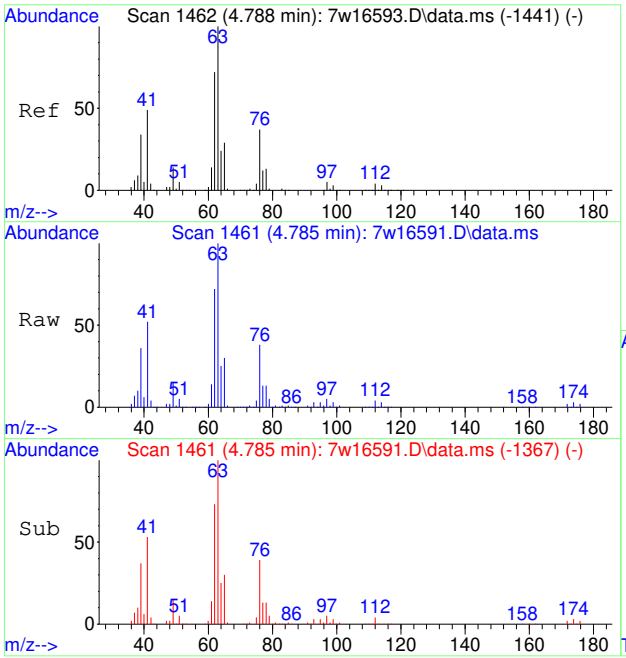


#55
TRICHLOROETHENE
Concen: 18.36 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 95 Resp: 327435

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	98.7	79.4	147.4
97	64.2	45.0	83.6

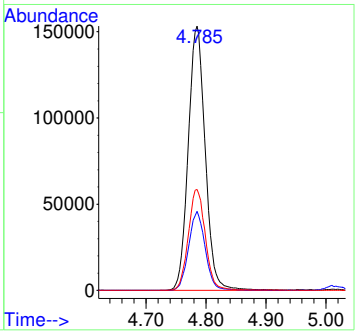


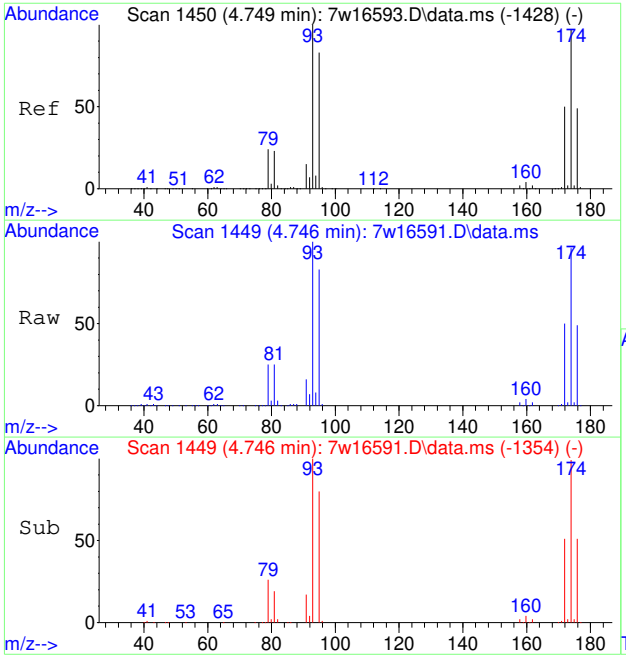


#56
1,2-DICHLOROPROPANE
Concen: 19.23 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 302257

Ion	Ratio	Lower	Upper
63	100		
65	29.4	22.6	42.0
76	38.4	31.8	59.0

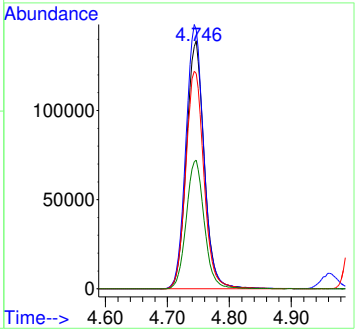


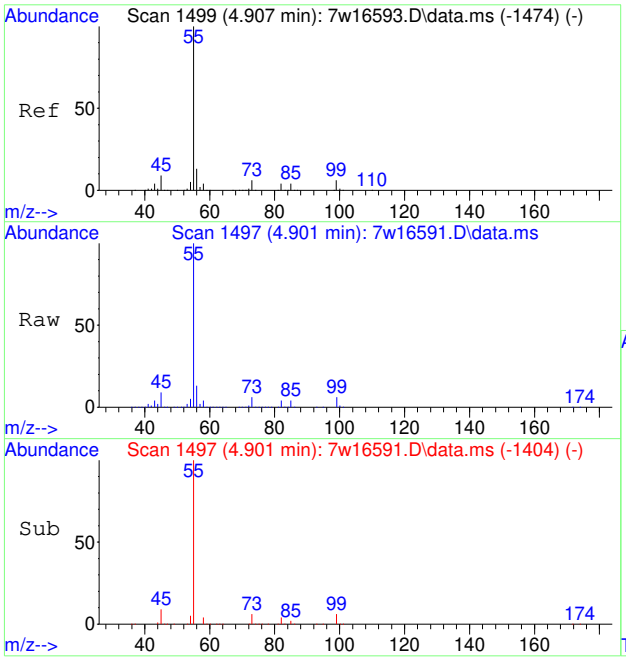


#57
DIBROMOMETHANE
Concen: 19.08 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:174 Resp: 277930

Ion	Ratio	Lower	Upper
174	100		
93	107.2	67.3	125.1
95	89.6	56.8	105.6
172	52.5	36.3	67.5

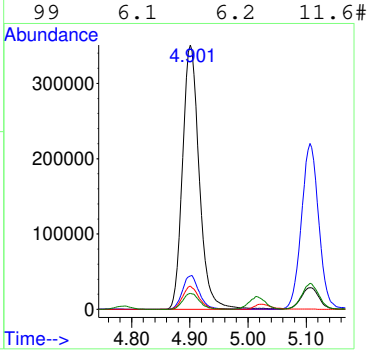


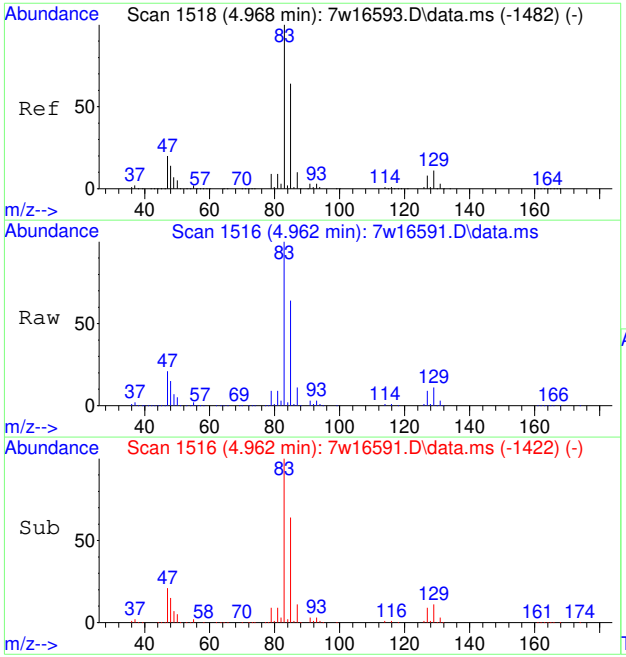


#58
ETHYL ACRYLATE
Concen: 19.73 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 703238

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	8.7	6.6	12.2
99	6.1	6.2	11.6#

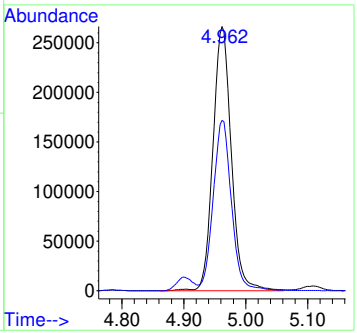


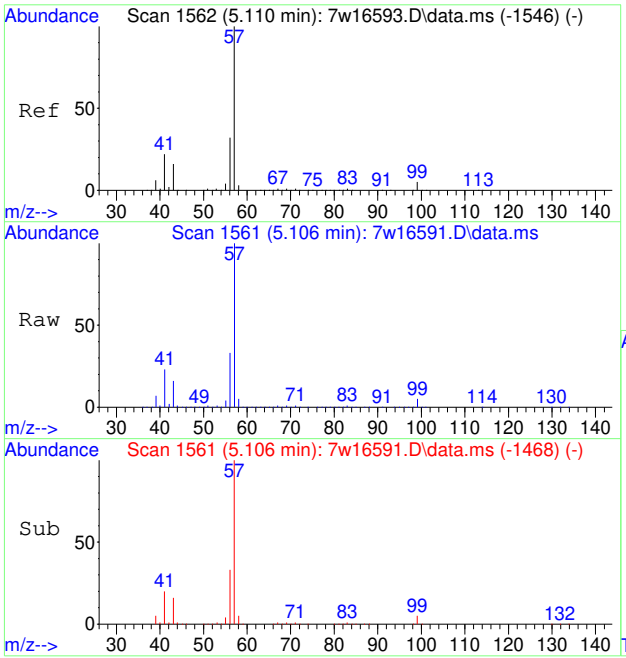


#59
BROMODICHLOROMETHANE
Concen: 18.61 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 549357

Ion	Ratio	Lower	Upper
83	100		
85	64.6	44.9	83.5

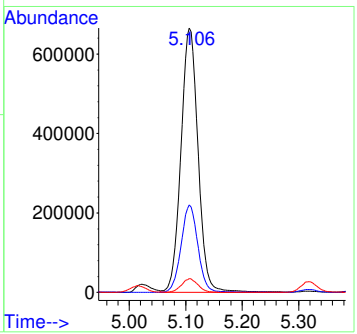


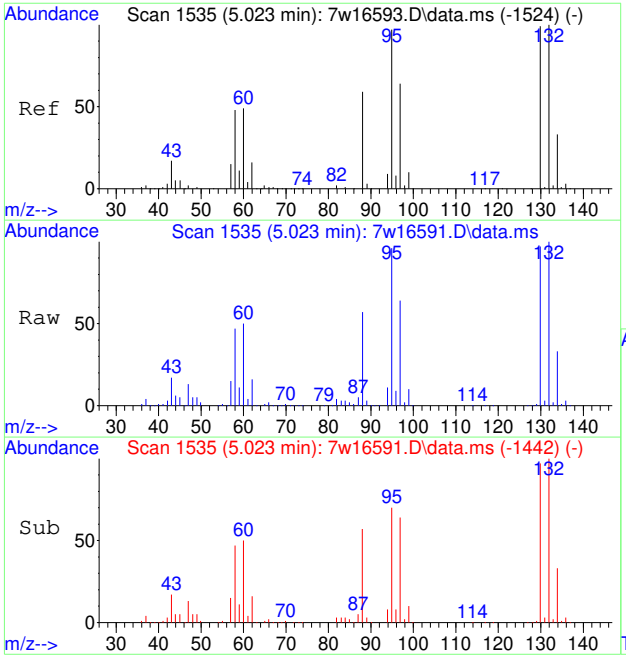


#60
2,2,4-TRIMETHYLPENTANE
Concen: 18.90 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 1404688

Ion	Ratio	Lower	Upper
57	100		
56	32.6	24.4	45.2
99	5.1	5.2	9.6#

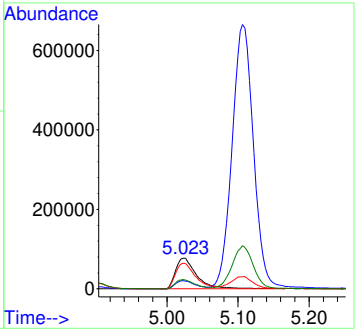


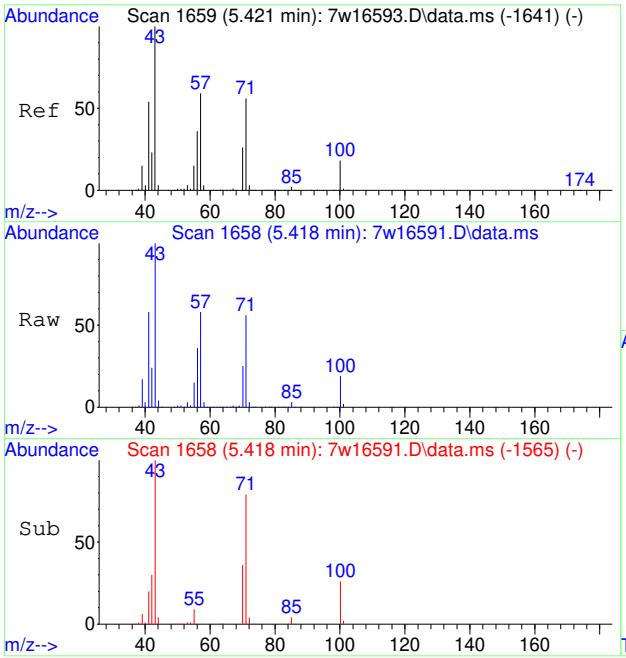


#61
1,4-DIOXANE
Concen: 18.11 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 88 Resp: 159487

Ion	Ratio	Lower	Upper
88	100		
57	24.0	13.1	24.3
58	77.6	39.1	72.5#
43	27.7	18.3	33.9

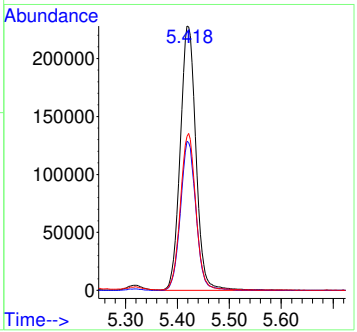


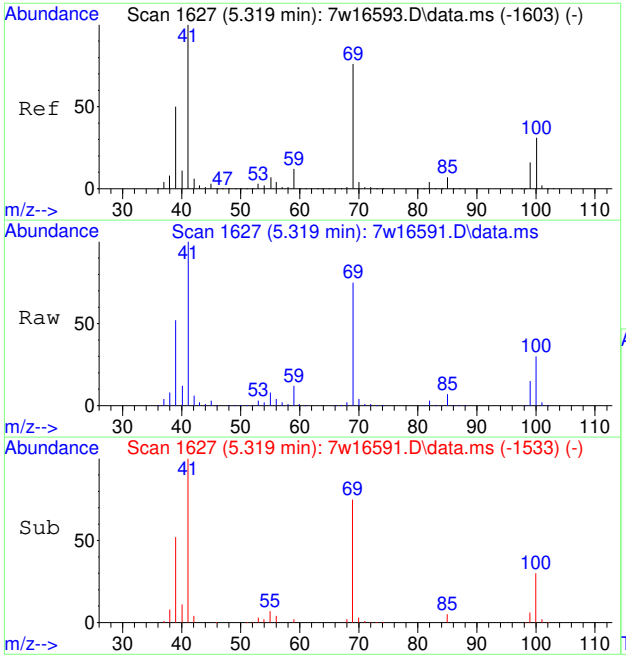


#62
HEPTANE
Concen: 19.19 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 476905

Ion	Ratio	Lower	Upper
43	100		
71	55.8	45.0	83.6
57	58.6	37.2	69.0

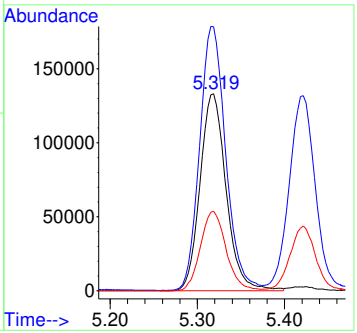


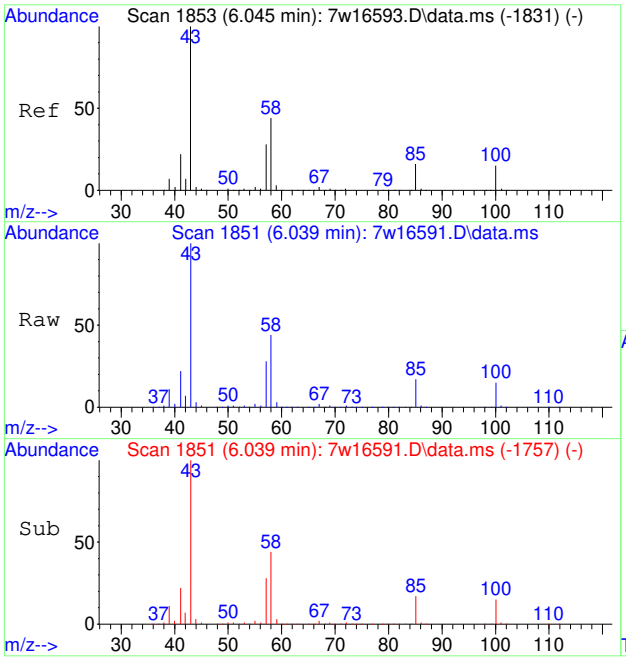


#63
METHYL METHACRYLATE
Concen: 19.41 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 276982

Ion	Ratio	Lower	Upper
69	100		
41	133.5	84.3	156.5
100	39.8	30.8	57.2

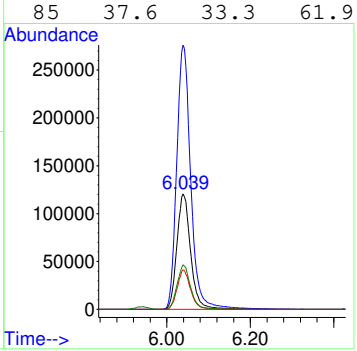


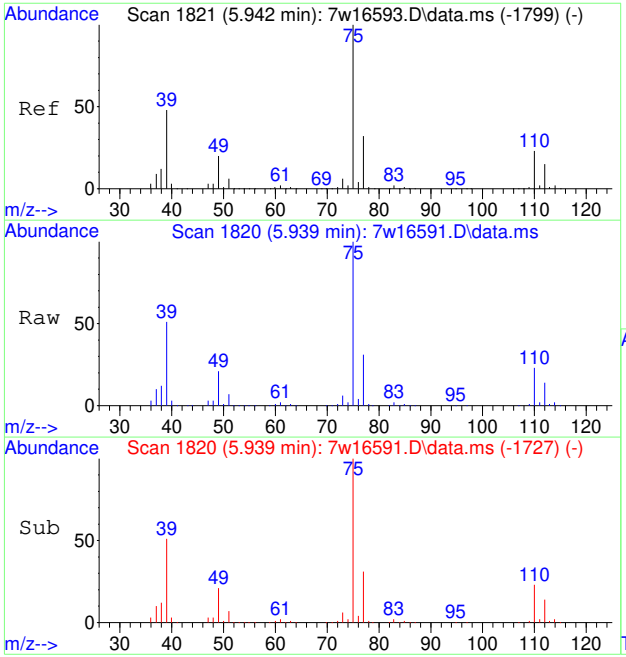


#64
METHYL ISOBUTYL KETONE
Concen: 19.00 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 278396

Ion	Ratio	Lower	Upper
58	100		
43	0.0	193.8	360.0#
100	33.4	32.8	60.8
85	37.6	33.3	61.9

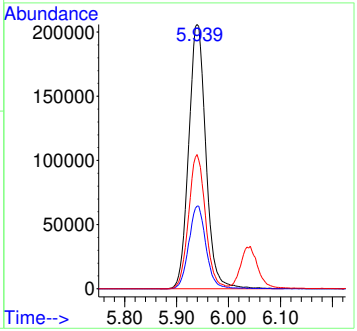


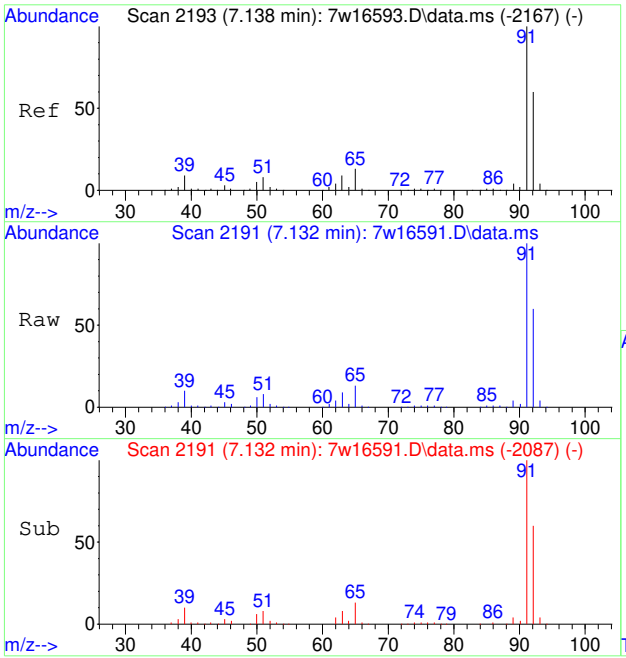


#65
CIS-1,3-DICHLOROPROPENE
Concen: 19.04 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 474515

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	40.8
39	50.0	38.5	71.5

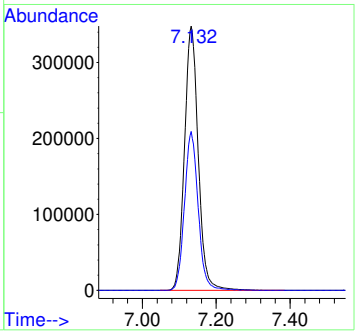


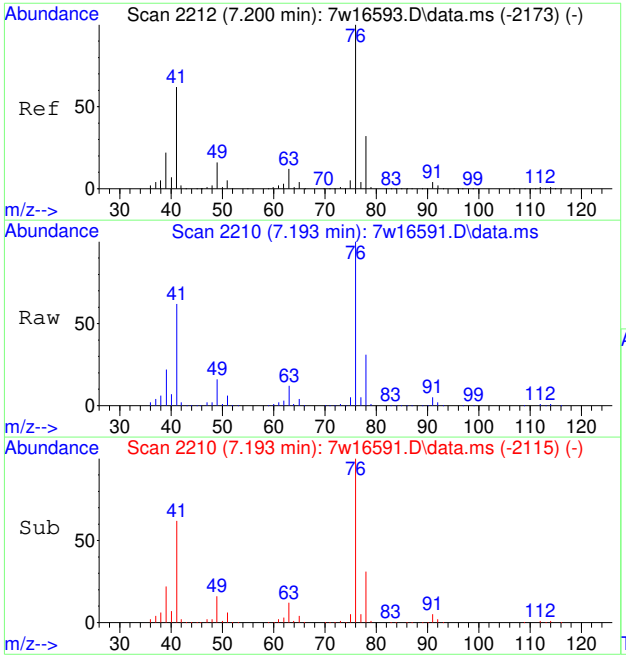


#66
TOLUENE
Concen: 19.86 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 898243

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

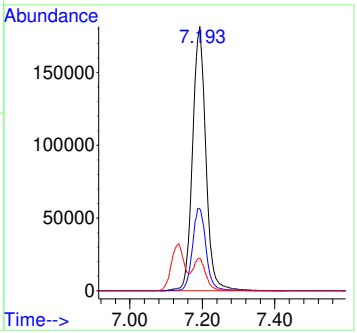


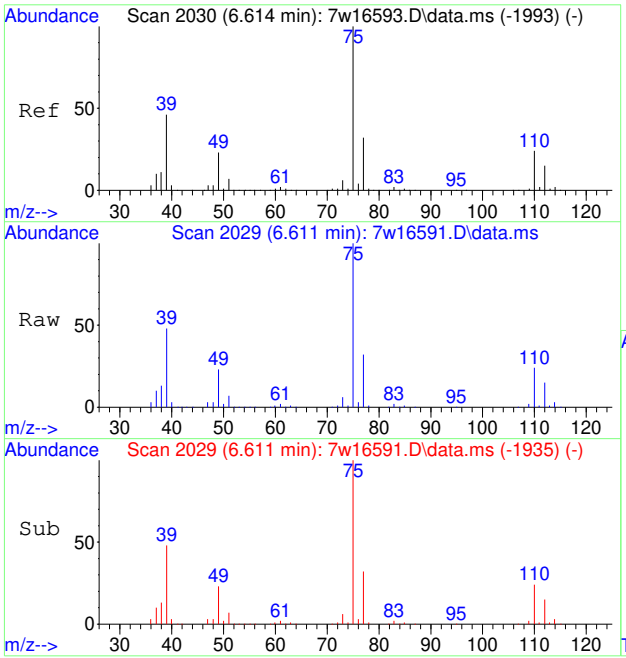


#67
1,3-DICHLOROPROPANE
Concen: 19.84 PPBV
RT: 7.193 min Scan# 2210
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 463972

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	12.7	8.0	14.8

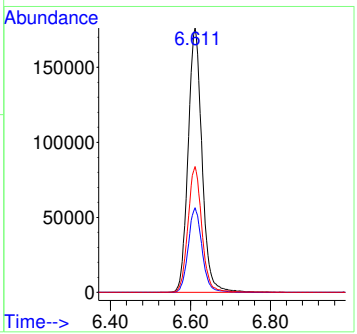


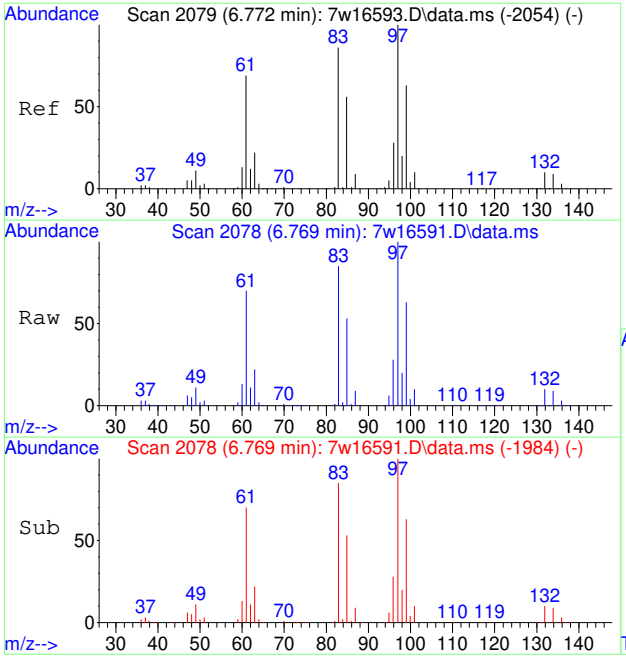


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 18.27 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 425650

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.5	41.7
39	47.6	37.2	69.0

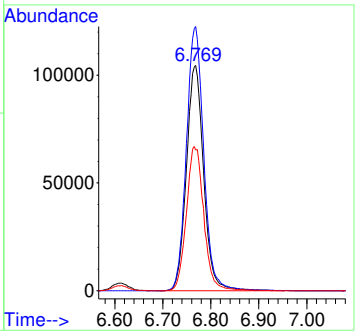


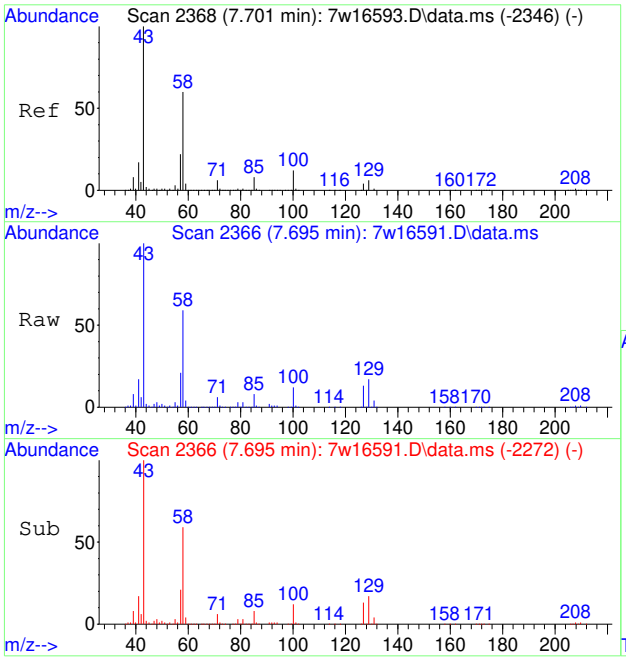


#69
1,1,2-TRICHLOROETHANE
Concen: 19.57 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 262141

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	64.8	45.5	84.5

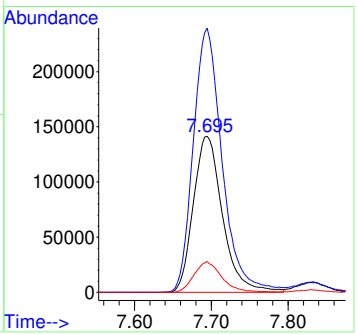


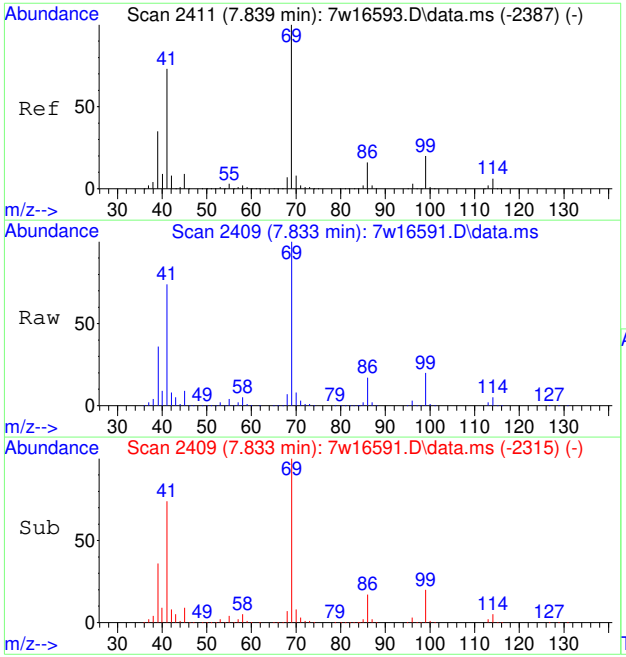


#70
2-HEXANONE
Concen: 19.43 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 374273

Ion	Ratio	Lower	Upper
58	100		
43	167.3	141.7	263.3
100	18.8	18.9	35.1#

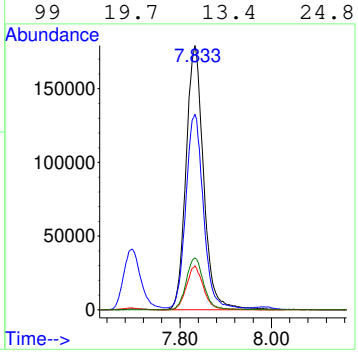


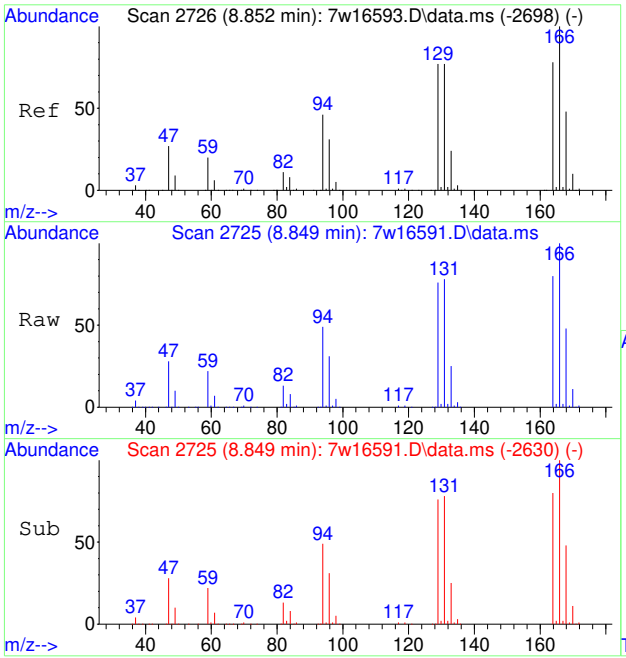


#71
ETHYL METHACRYLATE
Concen: 19.46 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 477947

Ion	Ratio	Lower	Upper
69	100		
41	74.6	49.3	91.6
86	16.2	11.6	21.6
99	19.7	13.4	24.8

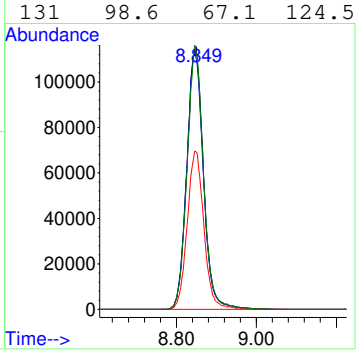


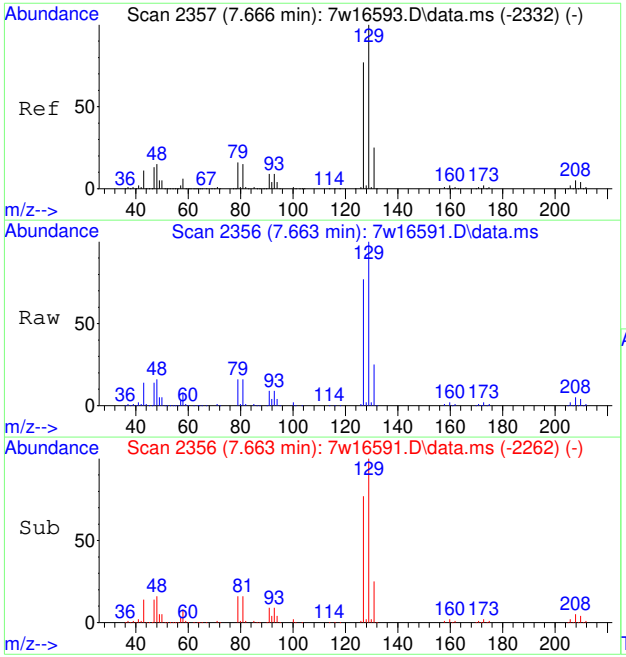


#72
TETRACHLOROETHENE
Concen: 20.14 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:164 Resp: 335304

Ion	Ratio	Lower	Upper
164	100		
129	98.3	69.7	129.5
168	60.2	43.4	80.6
131	98.6	67.1	124.5

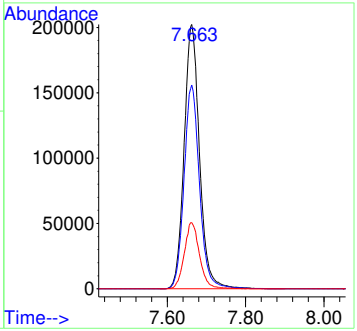


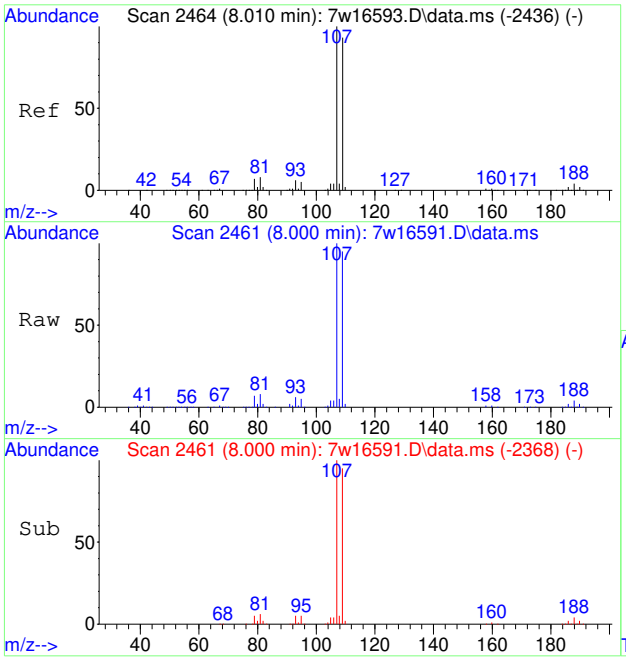


#73
DIBROMOCHLOROMETHANE
Concen: 19.81 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:129 Resp: 551638

Ion	Ratio	Lower	Upper
129	100		
127	77.6	53.0	98.4
131	24.9	16.9	31.3

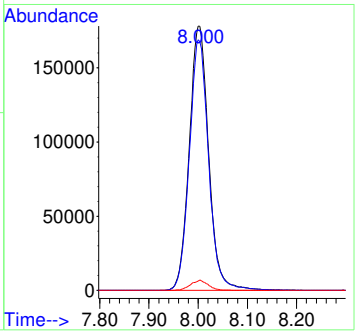


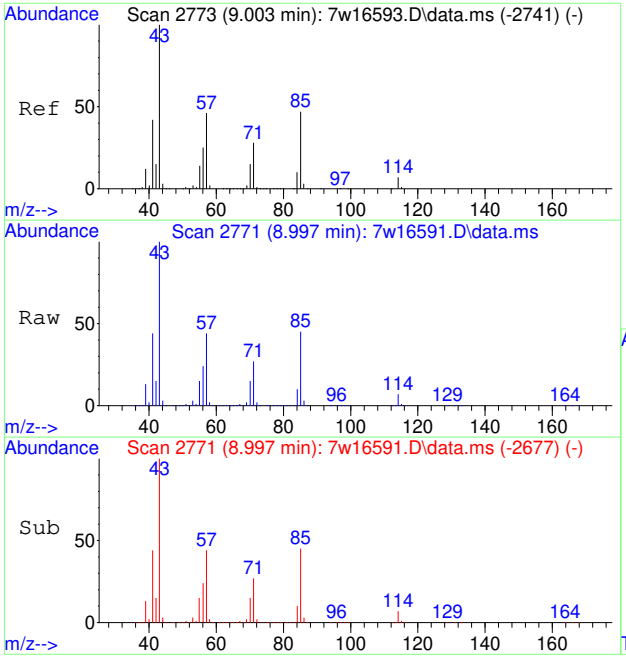


#74
1,2-DIBROMOETHANE
Concen: 20.42 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:107 Resp: 487978

Ion	Ratio	Lower	Upper
107	100		
109	94.6	65.7	122.1
188	3.6	2.4	4.4

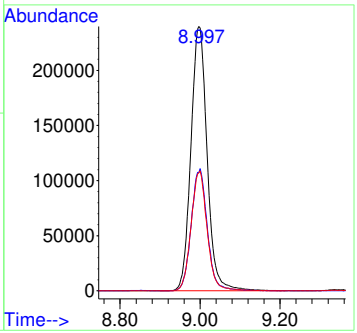


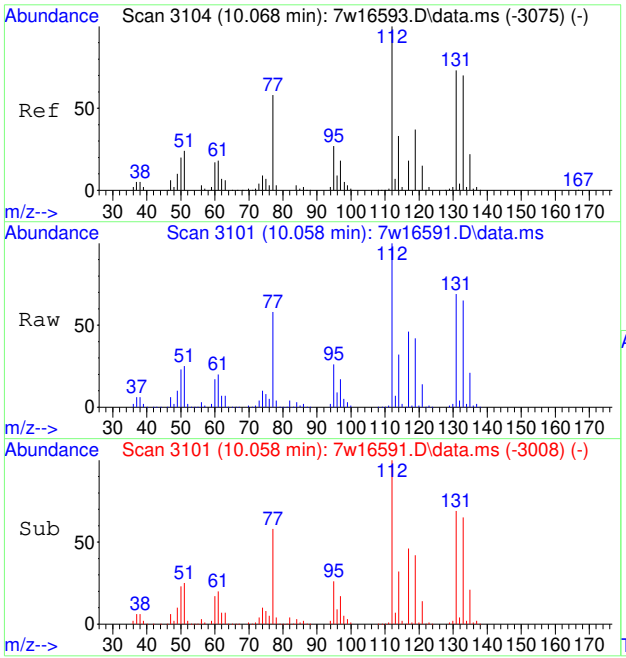


#75
OCTANE
Concen: 19.89 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 676810

Ion	Ratio	Lower	Upper
43	100		
85	45.8	36.5	67.9
57	44.8	27.6	51.2

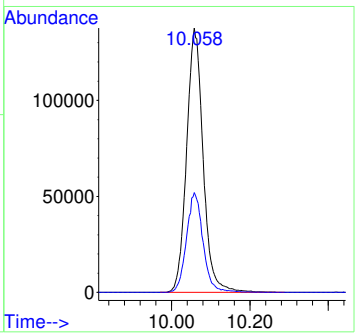


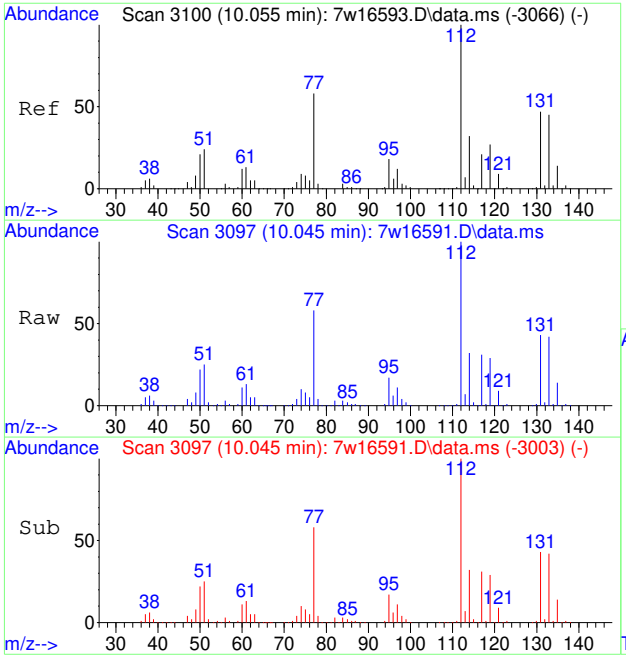


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.28 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:131 Resp: 402558

Ion	Ratio	Lower	Upper
131	100		
95	37.9	23.7	43.9

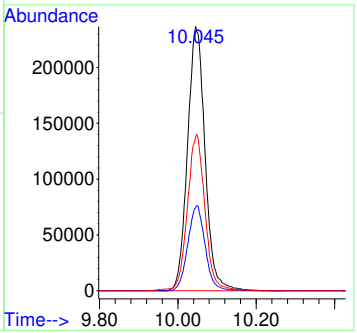


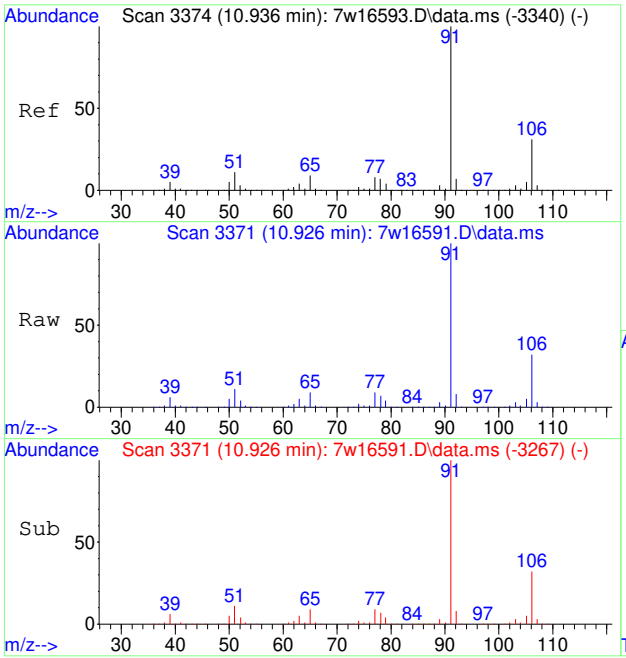


#78
CHLOROBENZENE
Concen: 20.26 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:112 Resp: 735731

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.4	34.4	63.8

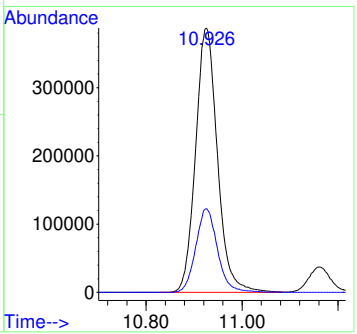


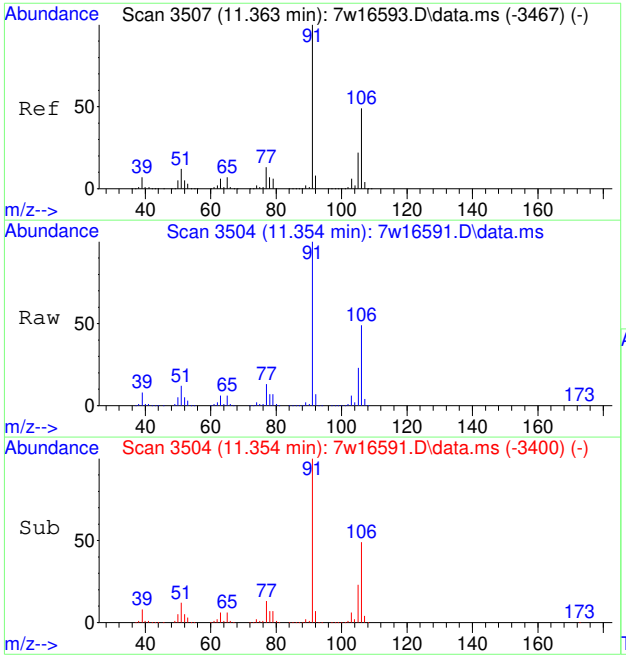


#79
ETHYLBENZENE
Concen: 20.44 PPBV
RT: 10.926 min Scan# 3371
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1222868

Ion	Ratio	Lower	Upper
91	100		
106	31.6	2.8	62.8

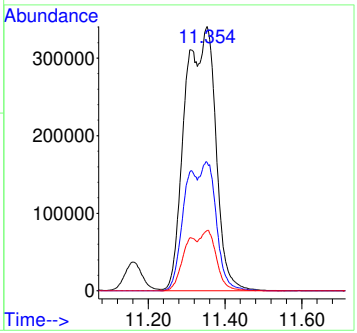


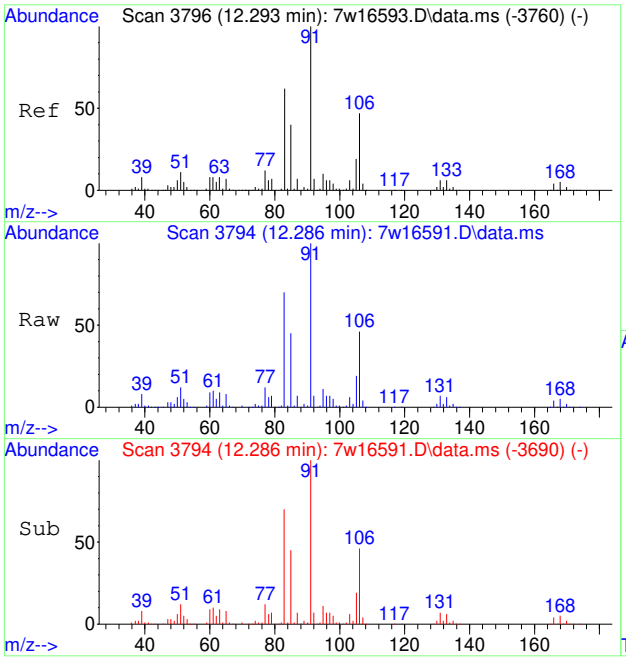


#80
M,P-XYLENE
Concen: 39.40 PPBV
RT: 11.354 min Scan# 3504
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1892381

Ion	Ratio	Lower	Upper
91	100		
106	27.4	0.0	58.7
105	12.7	0.0	43.2

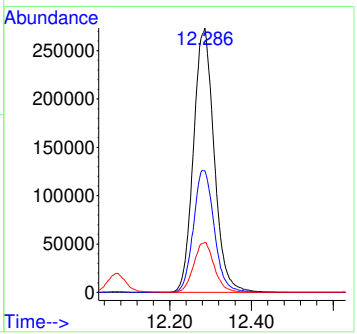


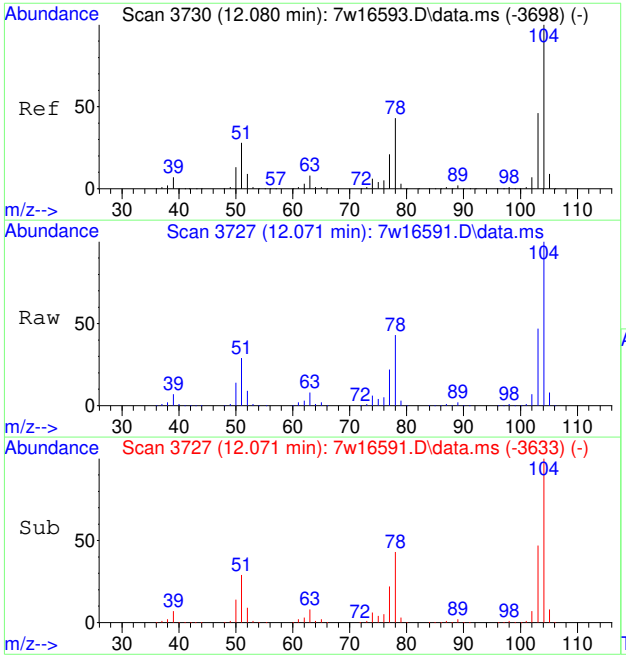


#81
O-XYLENE
Concen: 20.37 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 959093

Ion	Ratio	Lower	Upper
91	100		
106	46.0	34.1	63.3
105	18.8	14.6	27.2

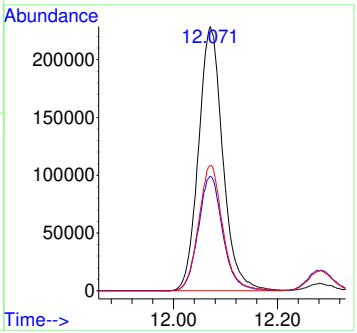


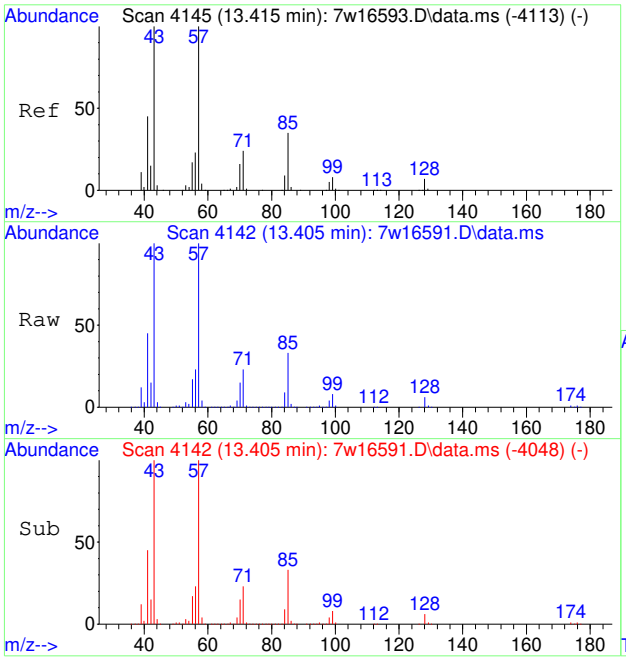


#82
STYRENE
Concen: 20.29 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:104 Resp: 744213

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	47.3	33.2	61.7

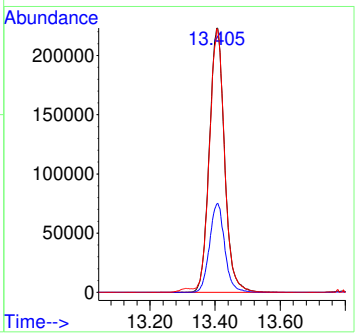


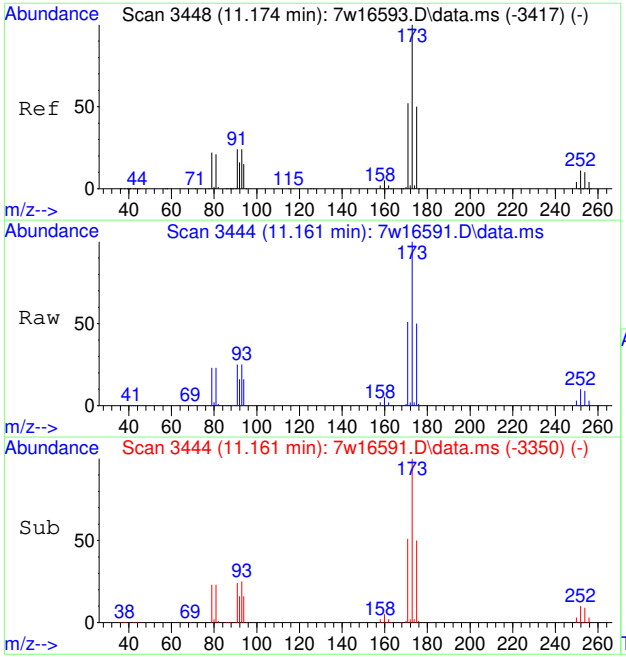


#83
NONANE
Concen: 20.03 PPBV
RT: 13.405 min Scan# 4142
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 723418

Ion	Ratio	Lower	Upper
43	100		
85	33.6	27.6	51.2
57	99.4	56.4	104.7

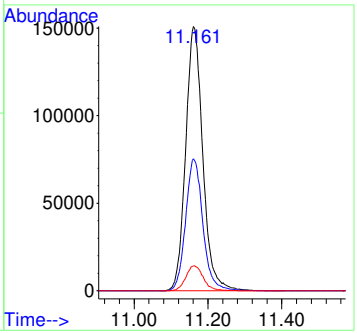


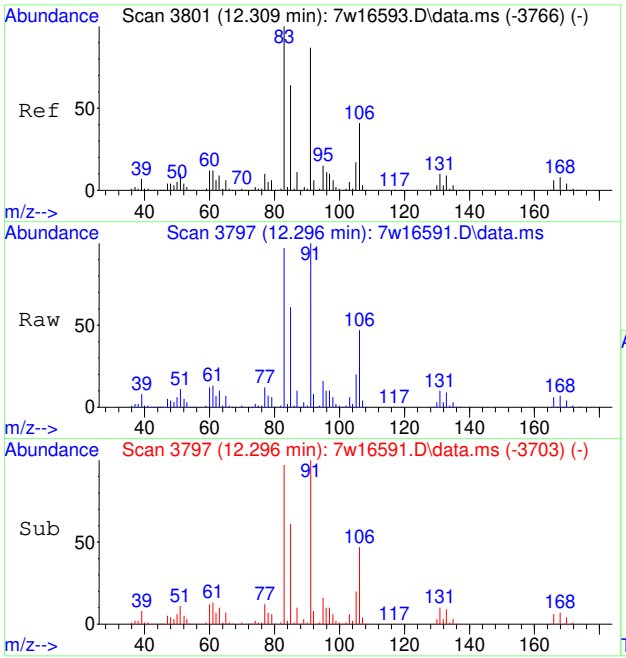


#84
BROMOFORM
Concen: 20.35 PPBV
RT: 11.161 min Scan# 3444
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:173 Resp: 487585

Ion	Ratio	Lower	Upper
173	100		
175	50.2	33.0	61.4
254	9.8	5.9	10.9

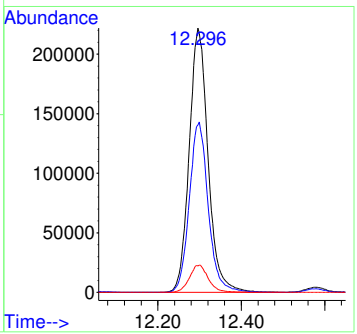


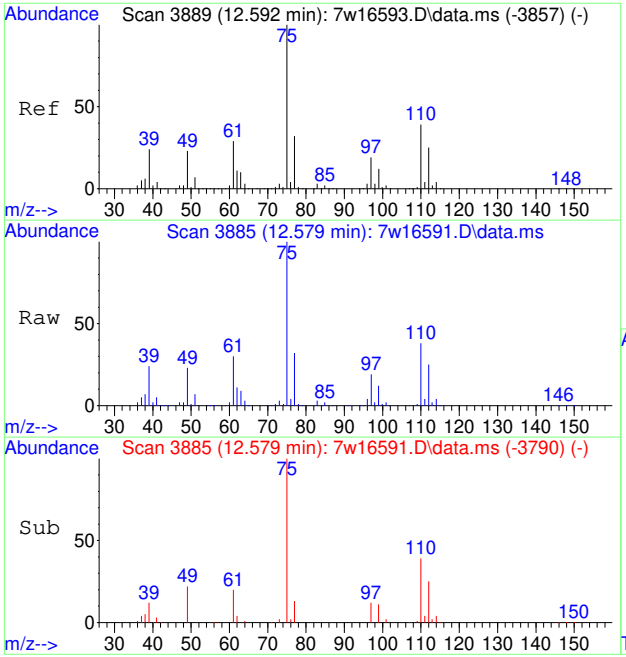


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 20.31 PPBV
RT: 12.296 min Scan# 3797
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 696701

Ion	Ratio	Lower	Upper
83	100		
85	64.7	44.6	82.8
131	10.4	8.0	14.8

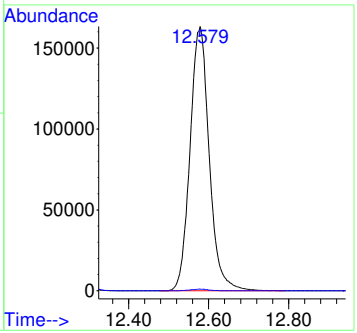


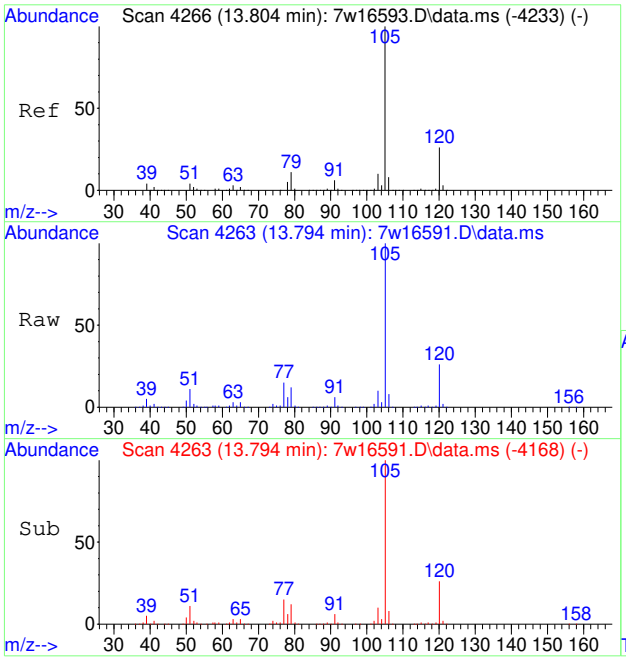


#86
1,2,3-TRICHLOROPROPANE
Concen: 20.17 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 544148

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

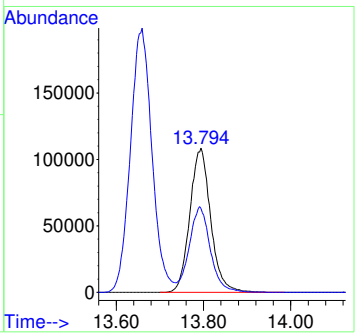


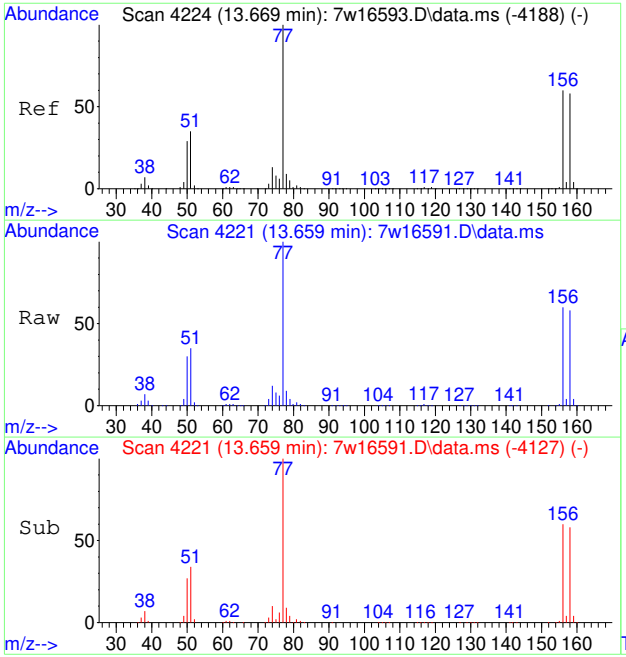


#88
ISOPROPYLBENZENE
Concen: 19.98 PPBV
RT: 13.794 min Scan# 4263
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 360209

Ion	Ratio	Lower	Upper
120	100		
77	59.8	36.0	67.0

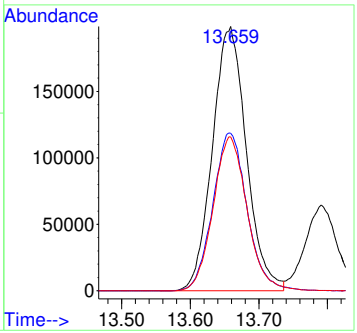


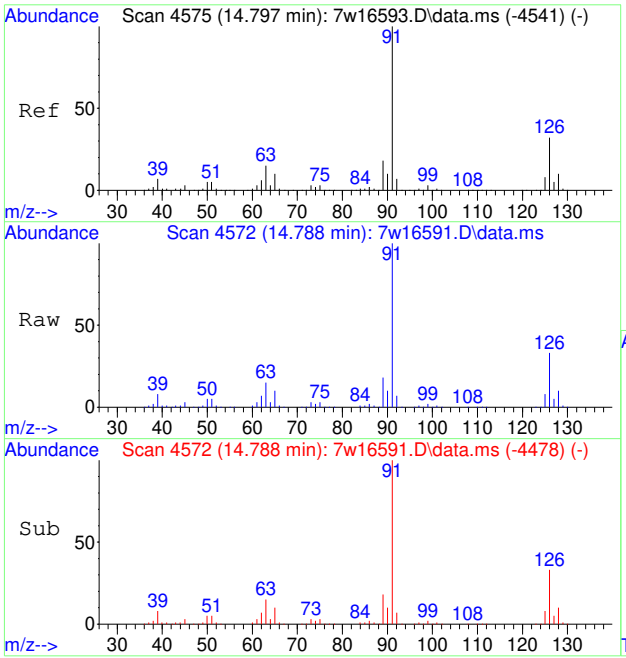


#89
BROMOBENZENE
Concen: 20.06 PPBV
RT: 13.659 min Scan# 4221
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 77 Resp: 684288

Ion	Ratio	Lower	Upper
77	100		
156	60.4	57.9	107.5
158	58.5	55.7	103.5

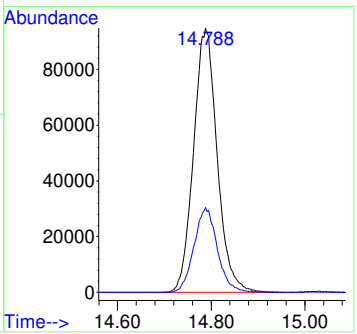


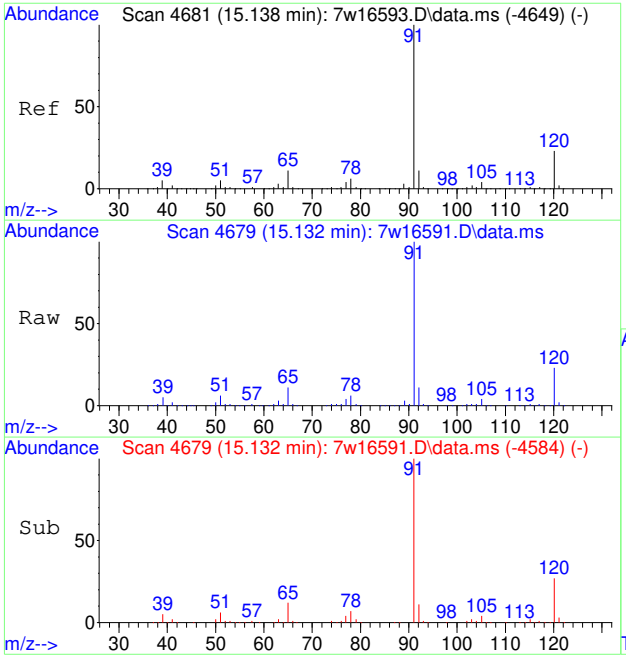


#90
2-CHLOROTOLUENE
Concen: 19.42 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:126 Resp: 331208

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.7	42.1

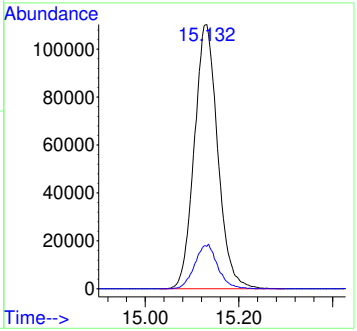


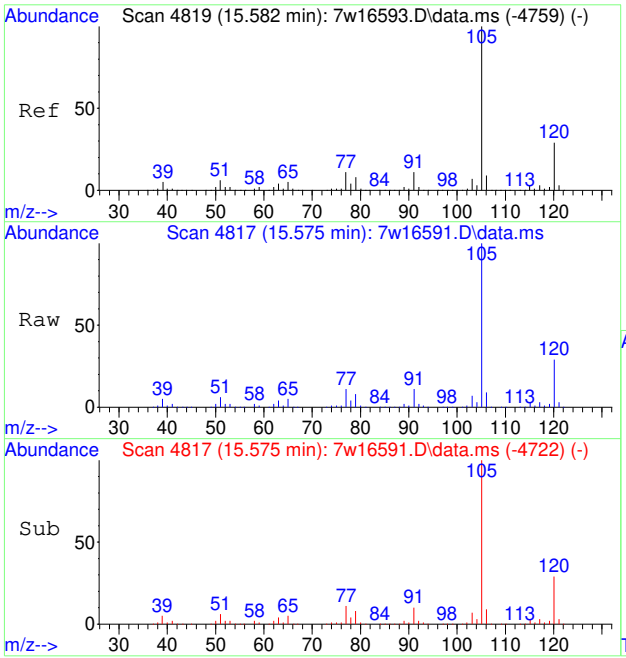


#91
N-PROPYLBENZENE
Concen: 19.58 PPBV
RT: 15.132 min Scan# 4679
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 382520

Ion	Ratio	Lower	Upper
120	100		
105	16.6	10.6	19.6

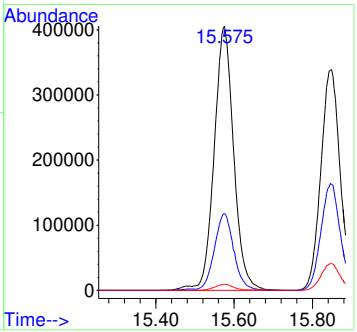


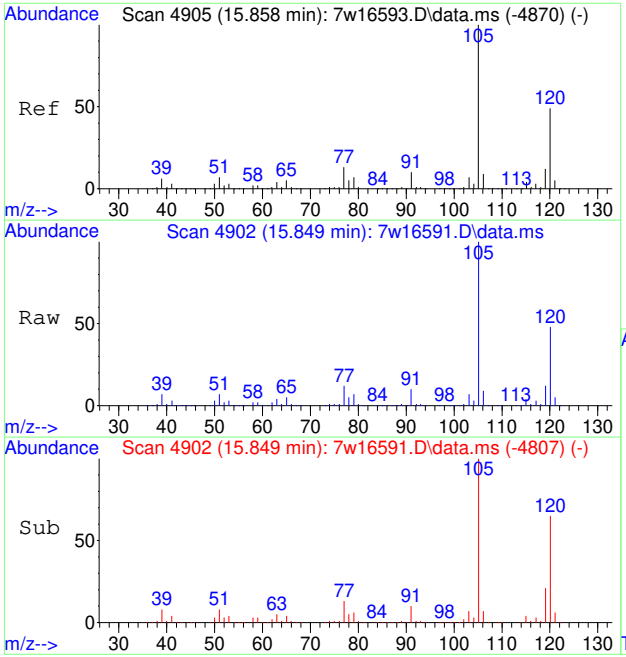


#92
4-ETHYLTOLUENE
Concen: 19.94 PPBV
RT: 15.575 min Scan# 4817
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1412222

Ion	Ratio	Lower	Upper
105	100		
120	29.2	21.8	40.4
119	2.2	1.7	3.1

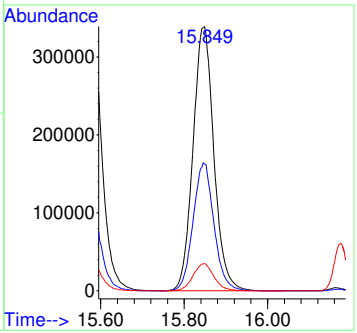


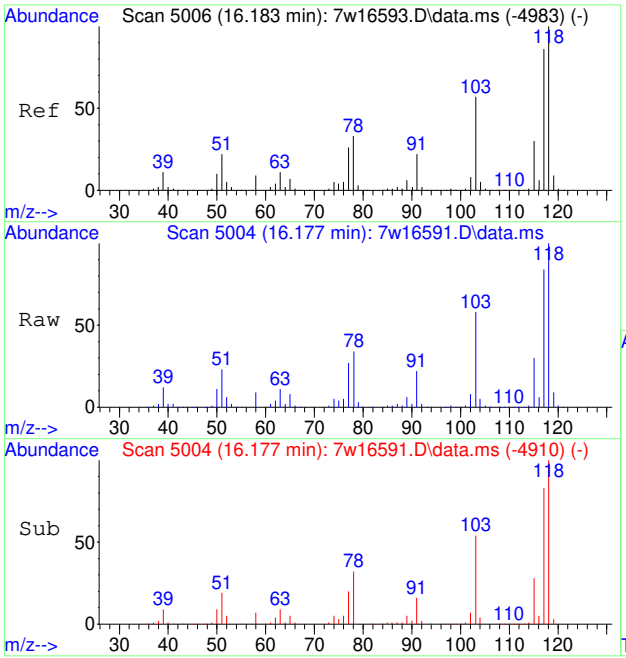


#93
1,3,5-TRIMETHYLBENZENE
Concen: 19.94 PPBV
RT: 15.849 min Scan# 4902
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1177558

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.4	7.5	13.9

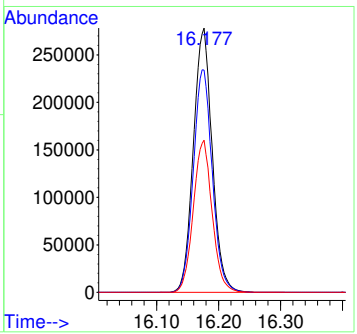


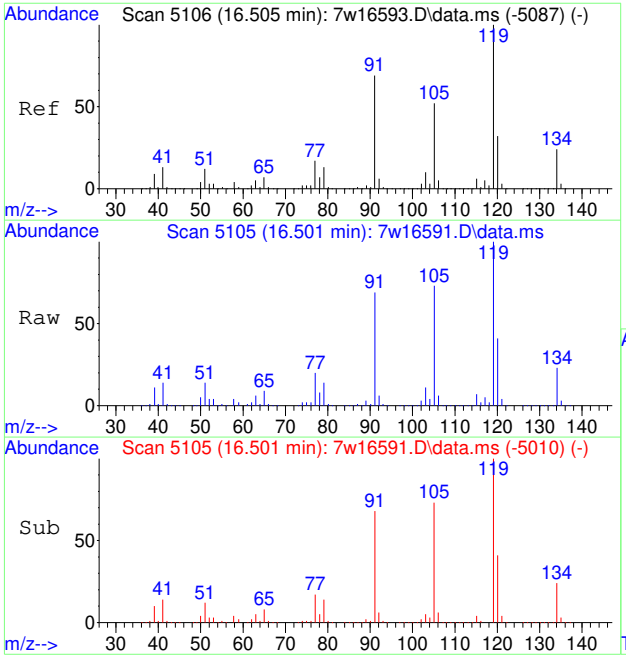


#94
ALPHA-METHYLSTYRENE
Concen: 19.51 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:118 Resp: 587843

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	57.5	36.2	67.2

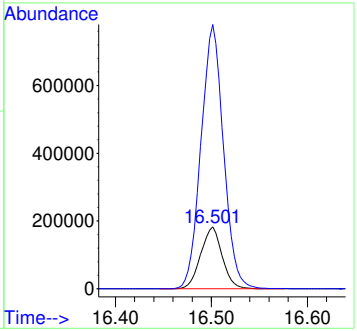


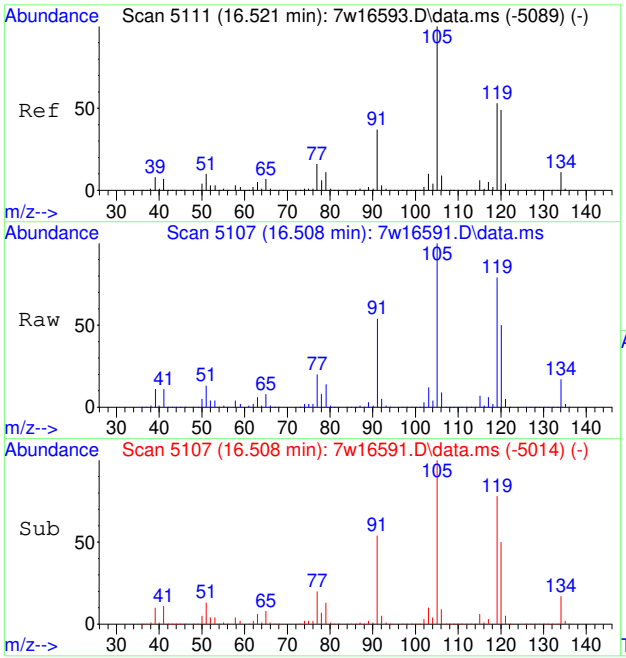


#95
TERT-BUTYLBENZENE
Concen: 19.96 PPBV
RT: 16.501 min Scan# 5105
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 284215

Ion	Ratio	Lower	Upper
134	100		
119	447.3	307.9	571.7

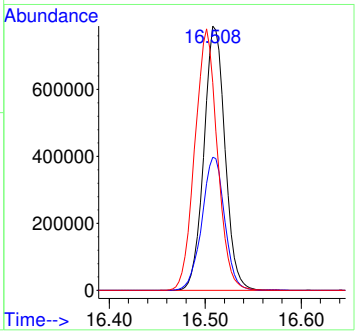


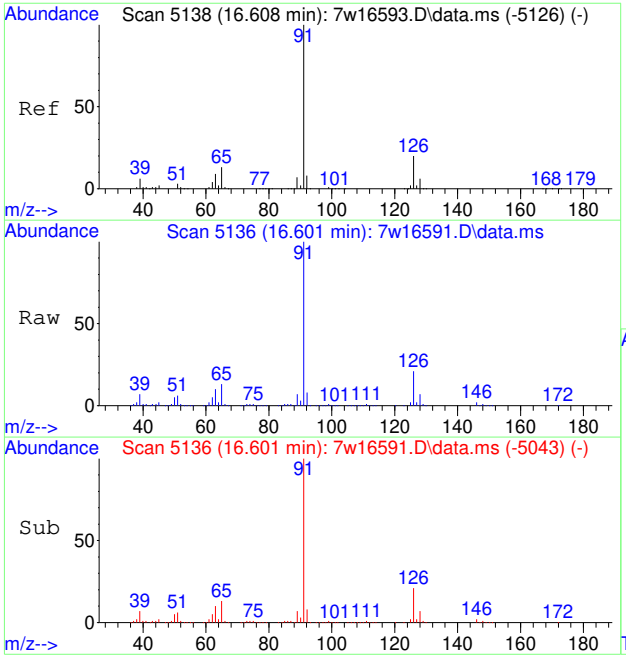


#96
1,2,4-TRIMETHYLBENZENE
Concen: 20.20 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1206100

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	105.4	78.0	144.8

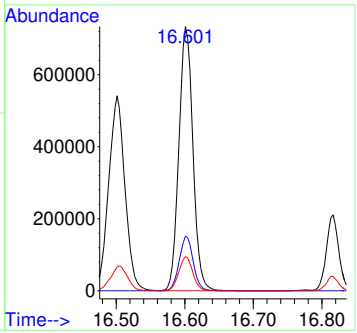


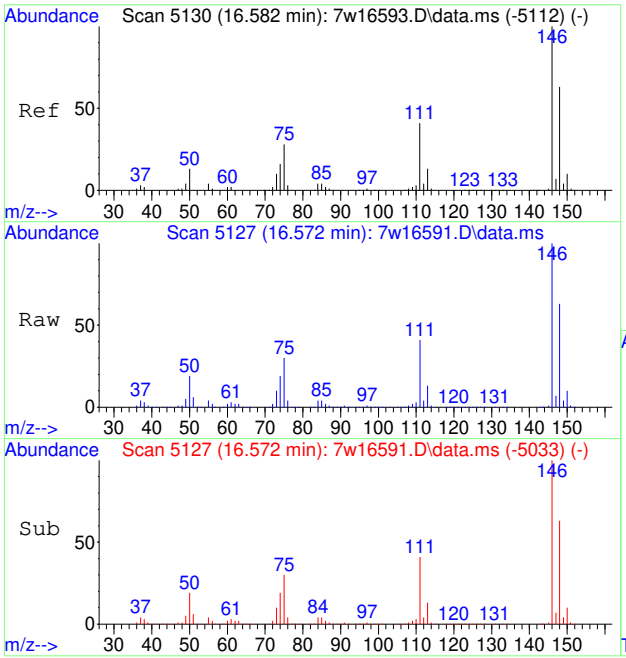


#97
BENZYL CHLORIDE
Concen: 20.31 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1043995

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	12.9	7.3	13.7

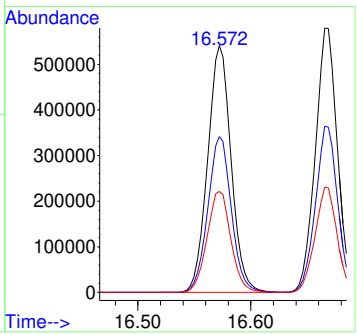


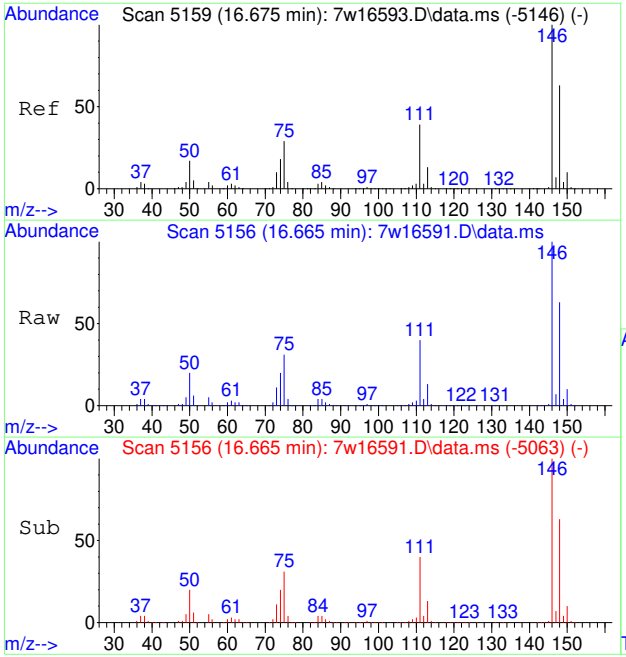


#98
M-DICHLOROBENZENE
Concen: 19.50 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 777553

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	41.5	25.4	47.2

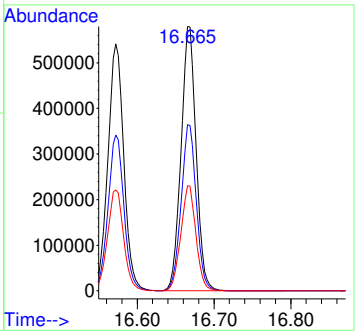


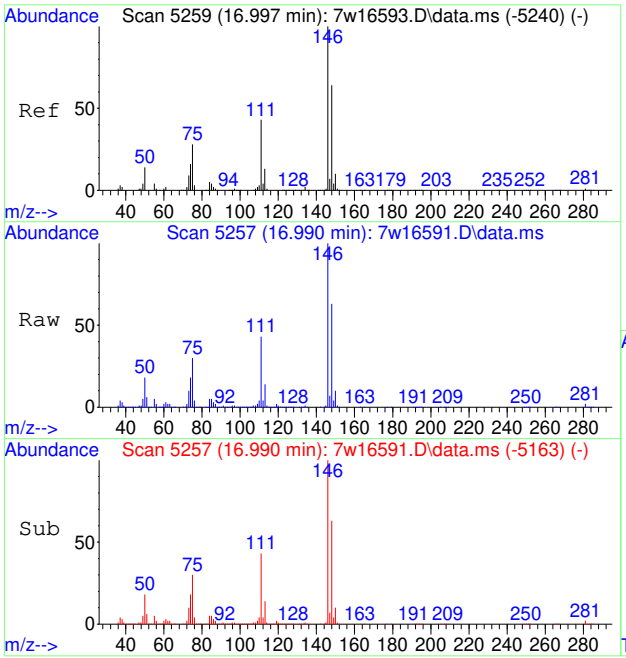


#99
P-DICHLOROBENZENE
Concen: 20.08 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 788870

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	39.8	24.8	46.1

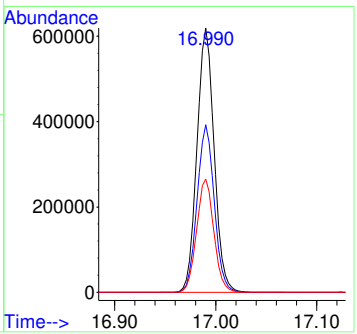


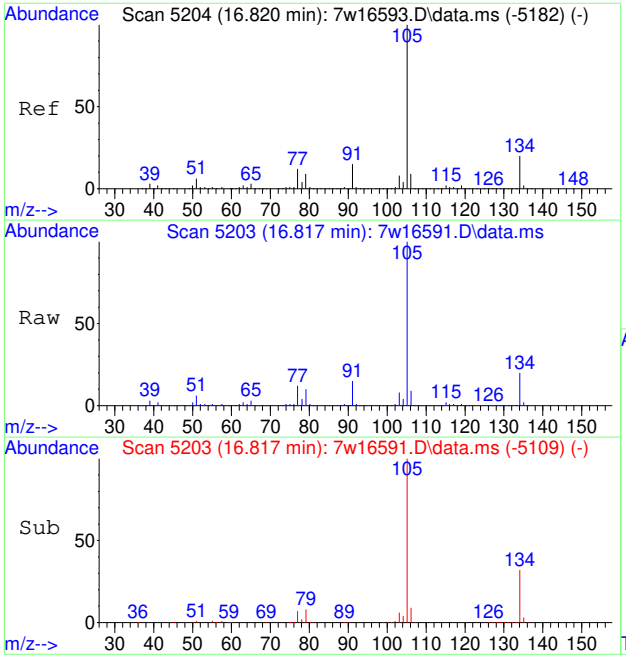


#100
O-DICHLOROBENZENE
Concen: 19.81 PPBV
RT: 16.990 min Scan# 5257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 731265

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	43.1	26.9	50.1

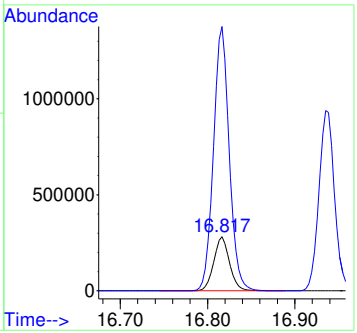


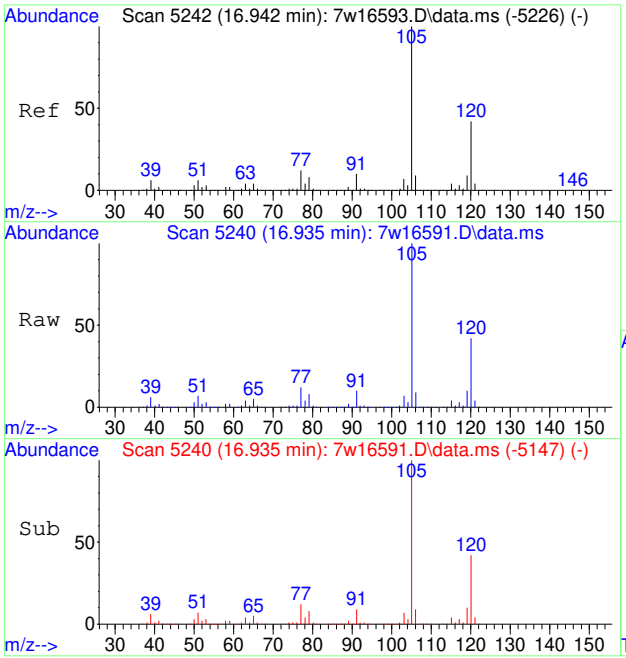


#101
SEC-BUTYLBENZENE
Concen: 20.47 PPBV
RT: 16.817 min Scan# 5203
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 351357

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

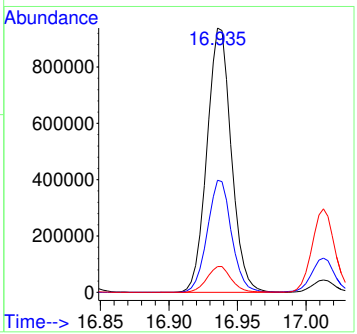


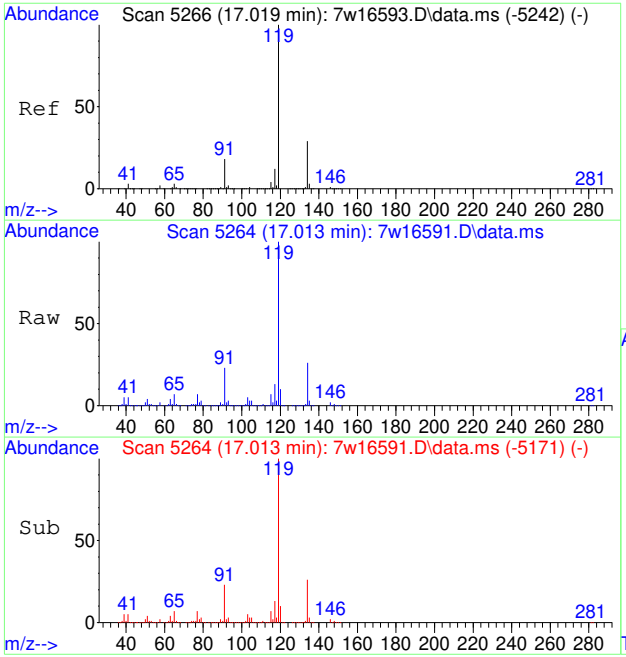


#102
1,2,3-TRIMETHYLBENZENE
Concen: 19.79 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1159850

Ion	Ratio	Lower	Upper
105	100		
120	42.2	31.9	59.2
91	9.9	7.3	13.5

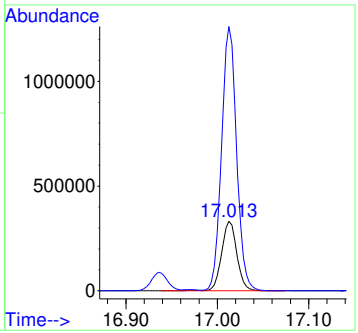


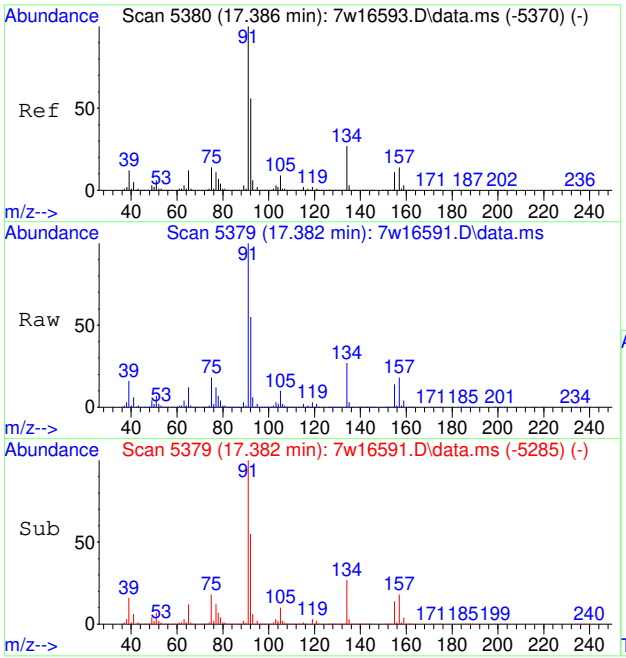


#103
P-ISOPROPYLTOLUENE
Concen: 19.97 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 385467

Ion	Ratio	Lower	Upper
134	100		
119	375.6	253.7	471.3

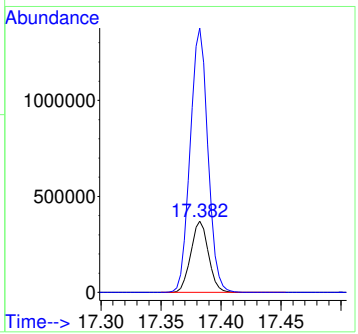


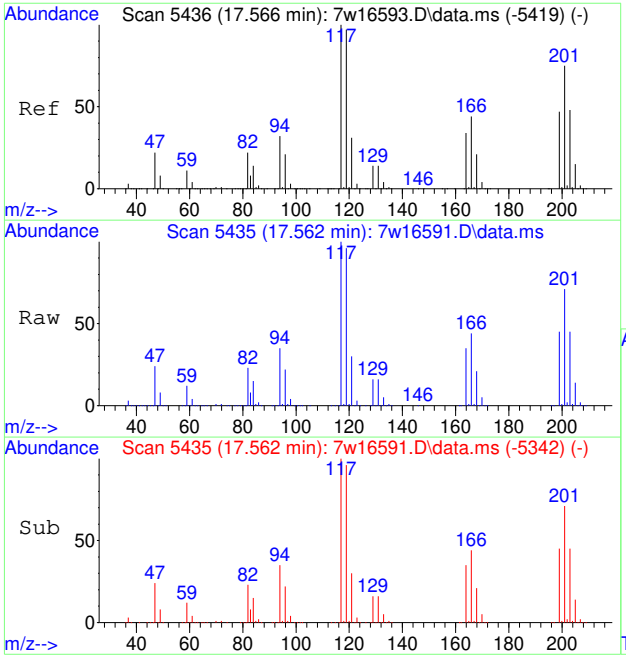


#104
N-BUTYLBENZENE
Concen: 20.40 PPBV
RT: 17.382 min Scan# 5379
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 378596

Ion	Ratio	Lower	Upper
134	100		
91	373.4	231.1	429.1

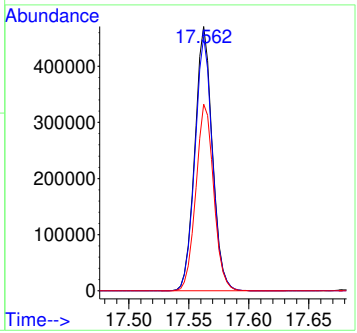


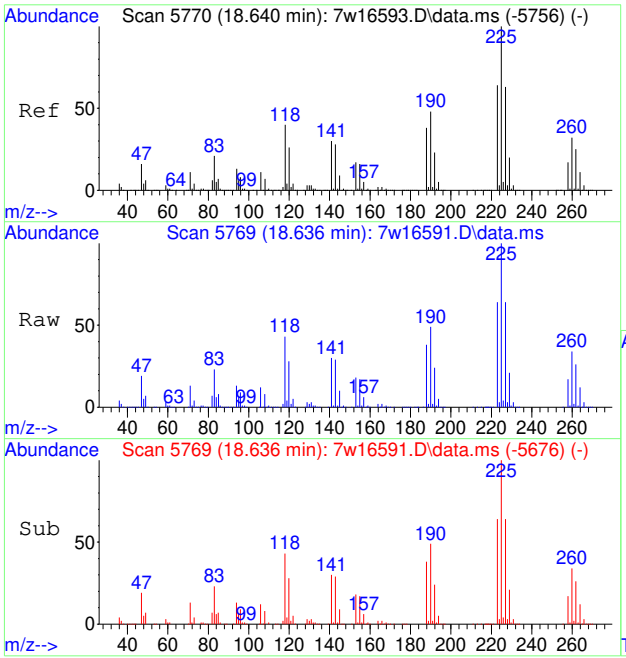


#105
HEXACHLOROETHANE
Concen: 20.73 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 477608

Ion	Ratio	Lower	Upper
117	100		
119	96.1	68.3	126.9
201	71.6	45.9	85.3

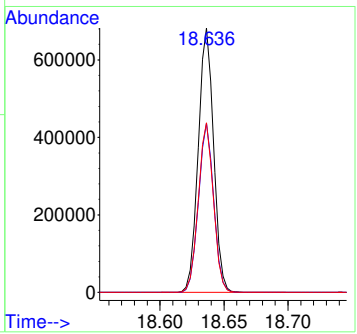


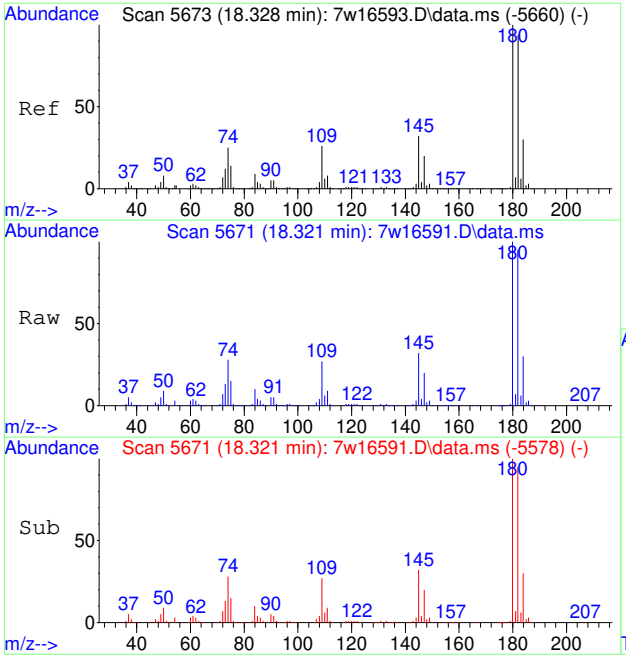


#106
HEXACHLOROBUTADIENE
Concen: 22.43 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:225 Resp: 568005

Ion	Ratio	Lower	Upper
225	100		
227	63.2	44.4	82.5
223	63.2	44.7	83.1

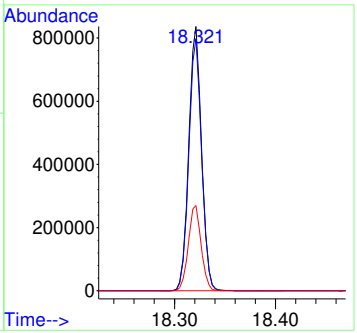


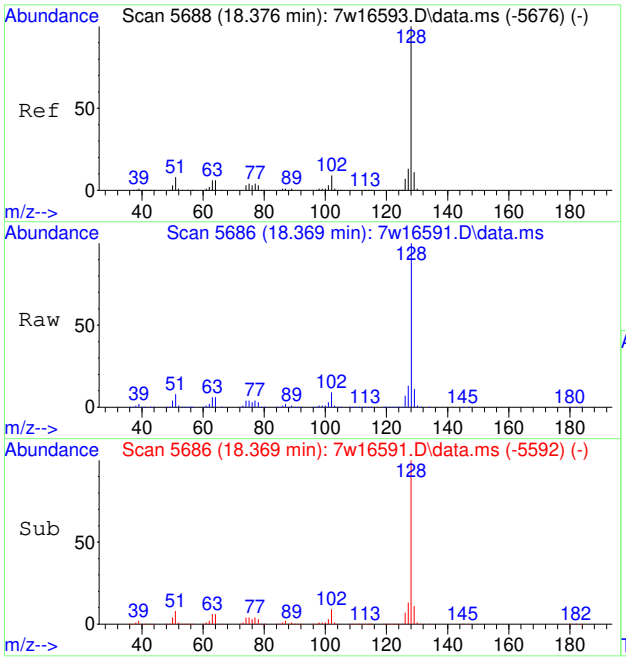


#107
1,2,4-TRICHLOROBENZENE
Concen: 22.61 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:180 Resp: 737709

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.4	23.1	42.9

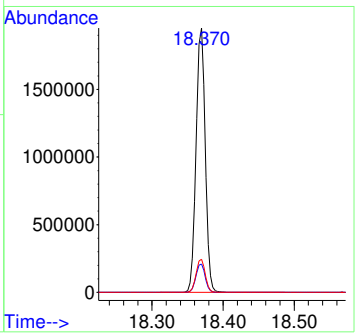


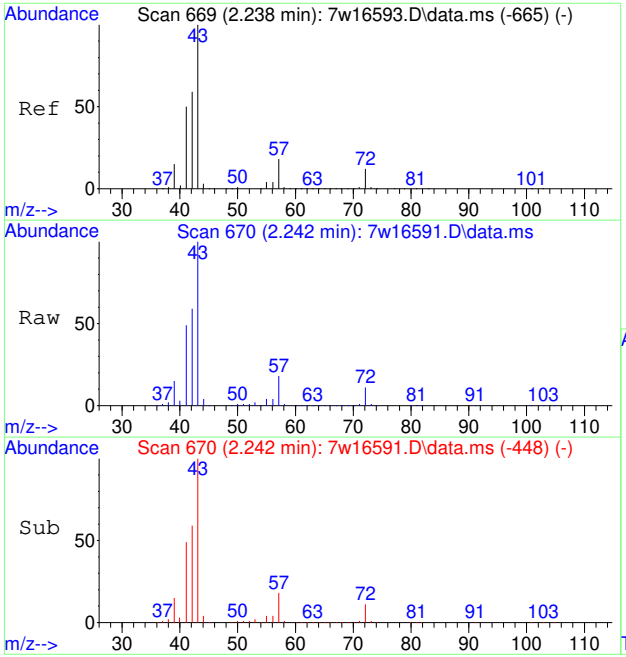


#108
NAPHTHALENE
Concen: 22.94 PPBV
RT: 18.369 min Scan# 5686
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:128 Resp: 1742340

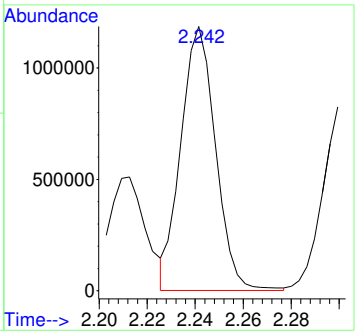
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.3	13.7
127	12.5	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 19.68 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:TIC Resp: 1188767



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16591.D
Injection Time: 08/07/25 13:47

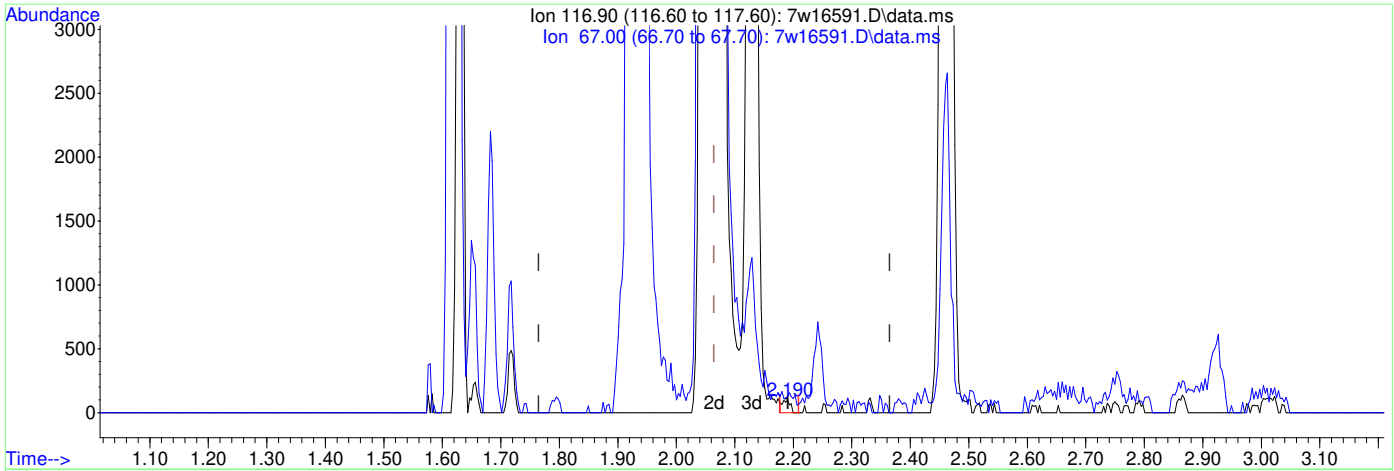
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

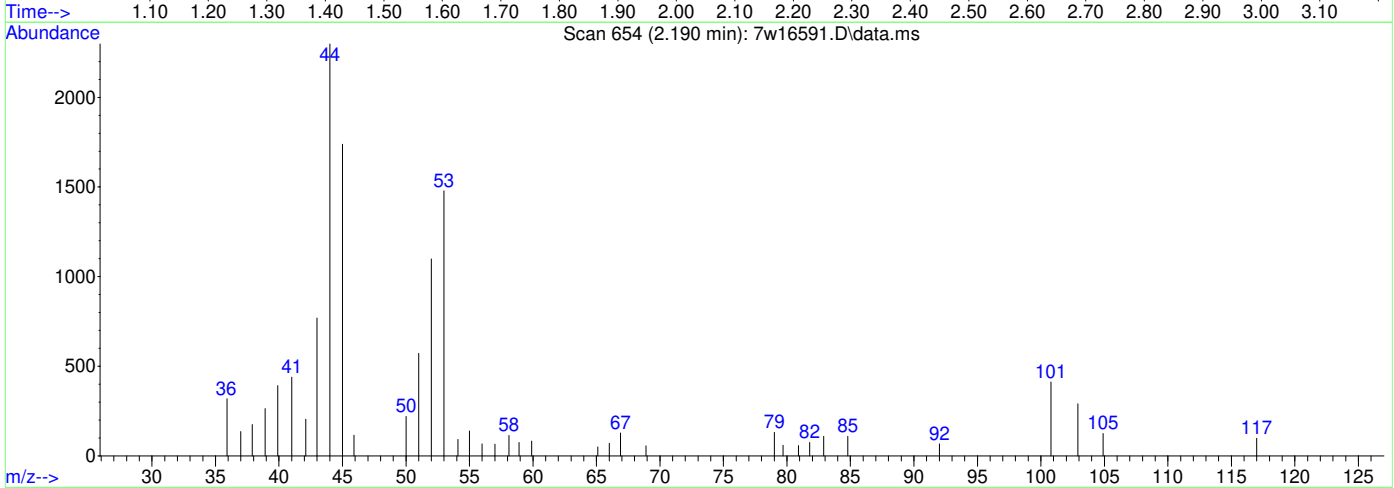
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Freon 123A	354-23-4		2.06	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.190min (+0.125) 0.01PPBV

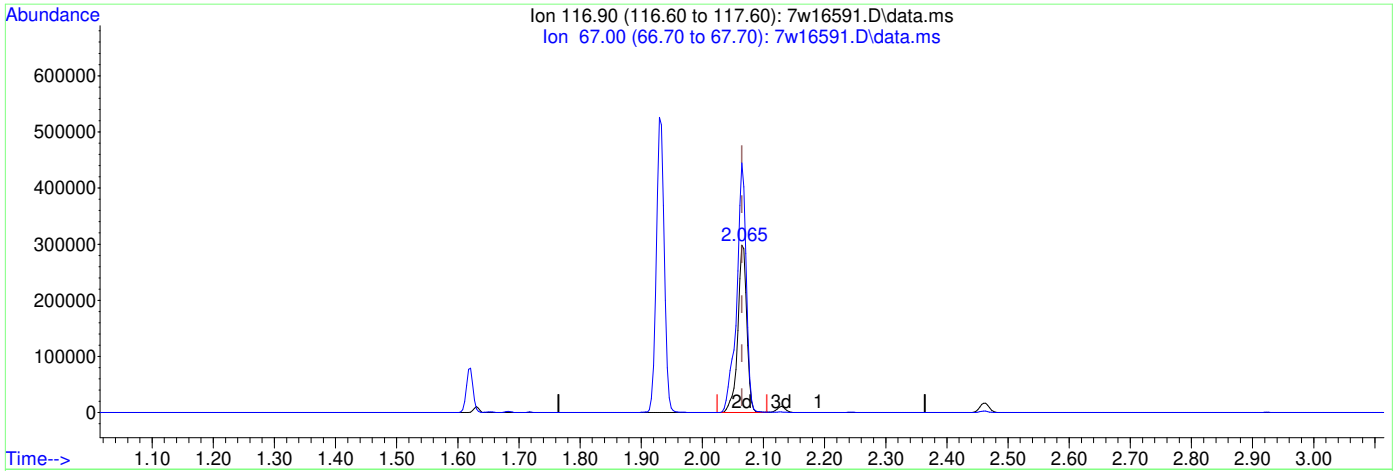
response 91

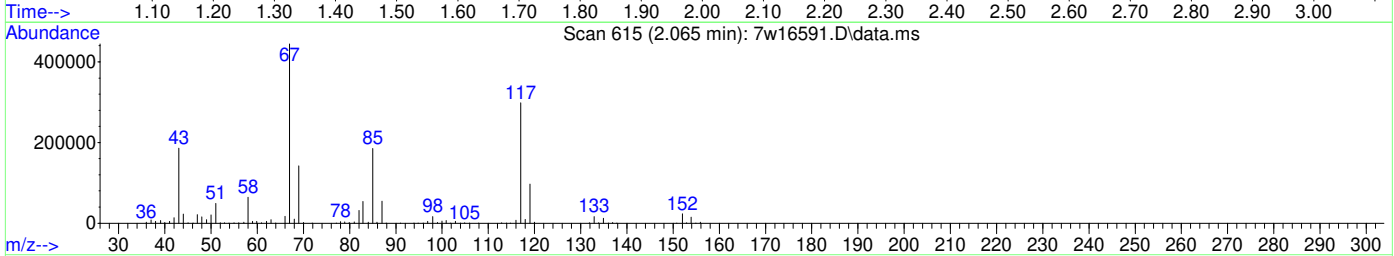
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	87.91
0.00	0.00	0.00
0.00	0.00	0.00

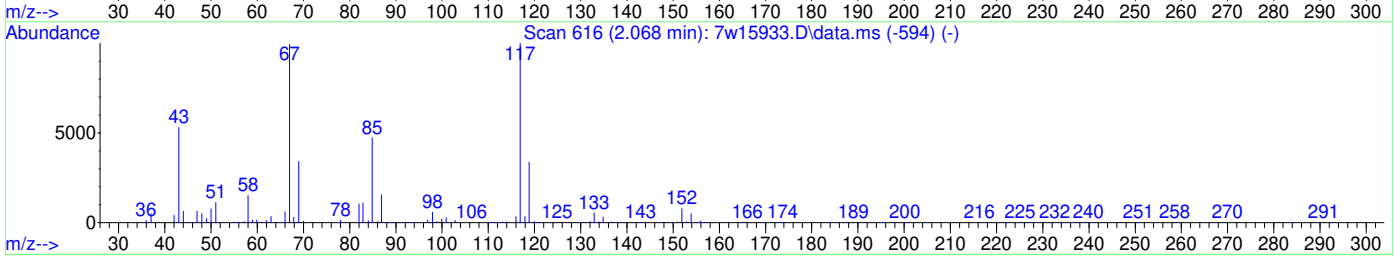
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.065min (+0.000) 19.66PPBV m

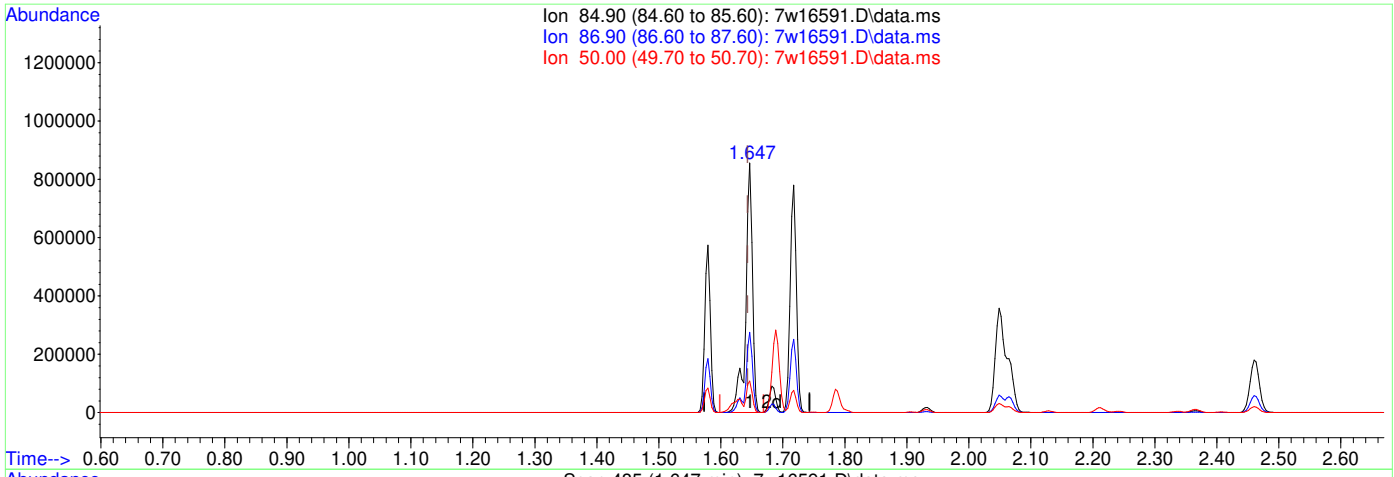
response 305527

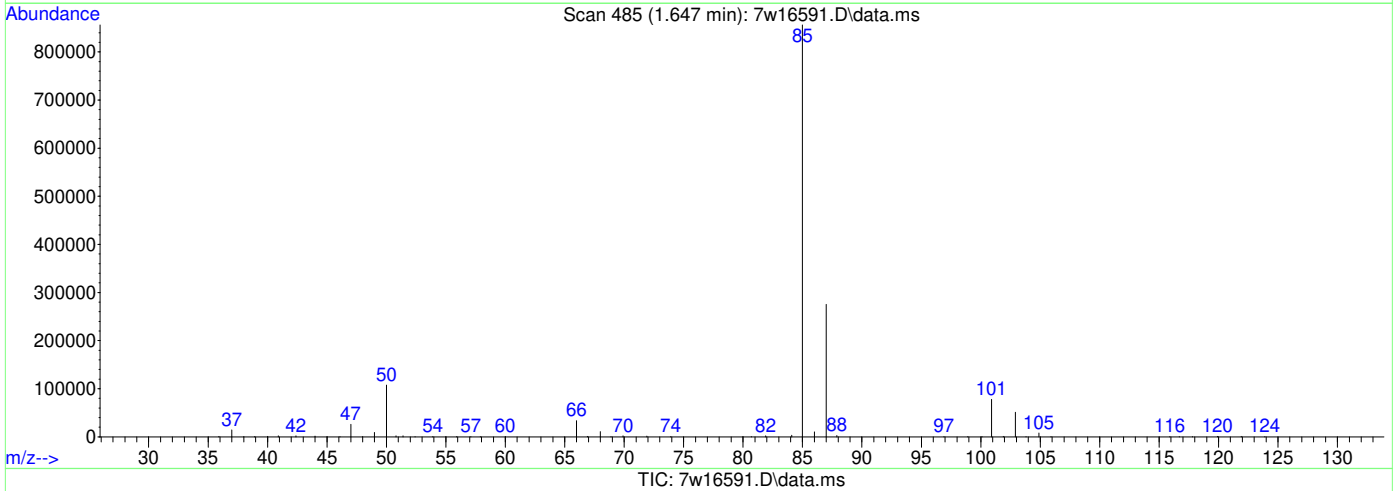
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	0.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 19.70PPBV

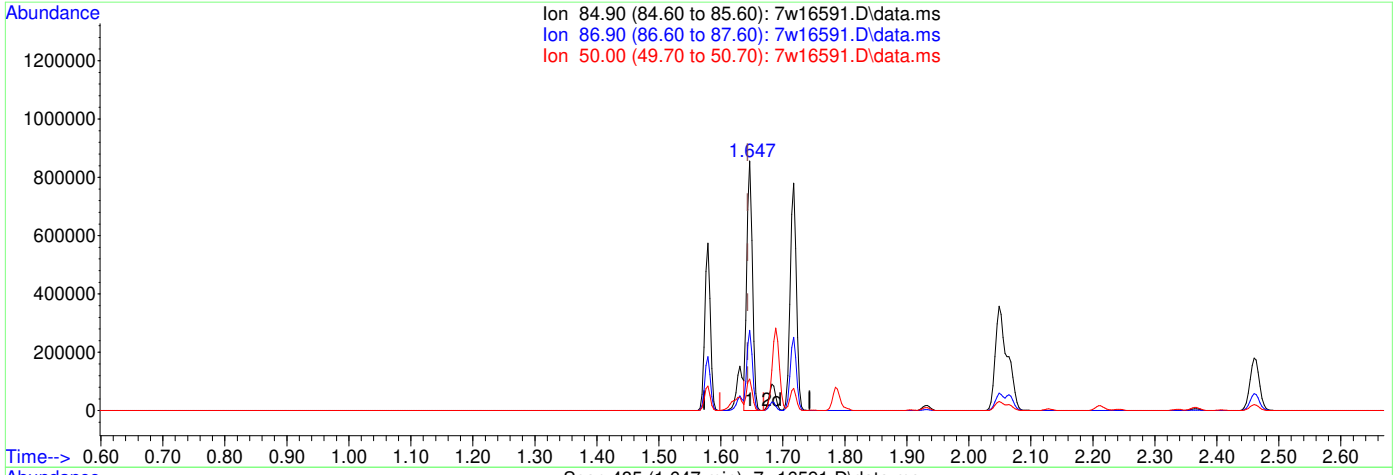
response 644952

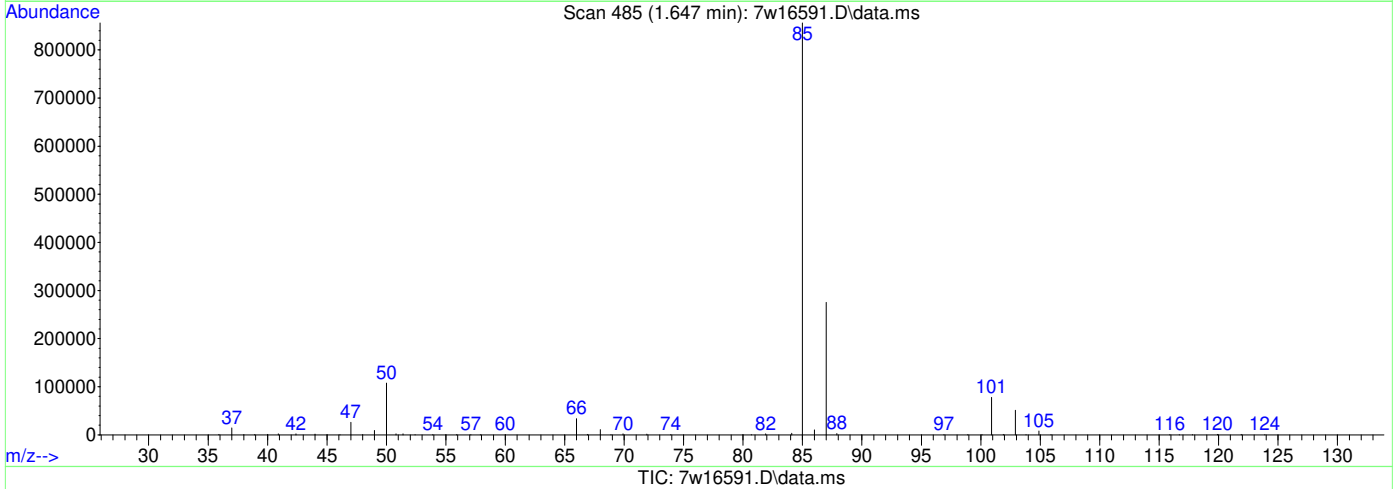
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.48
50.00	17.30	19.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 16.21PPBV m

response 530689

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.48
50.00	17.30	23.23#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109851	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	546669	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	501897	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109805	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	410954	10.23	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	264206	37.90	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	119359	39.64	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.627	116	590023	41.37	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	1043482m	33.07	PPBV		
7) PROPYLENE	1.627	41	337148	36.84	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	920580	38.25	PPBV		99
9) FREON 114	1.714	85	1067029	38.99	PPBV		99
10) CHLOROMETHANE	1.685	52	141787	36.20	PPBV		95
11) VINYL CHLORIDE	1.746	62	502517	36.90	PPBV		99
12) 1,3-BUTADIENE	1.785	54	386481	35.40	PPBV		98
13) N-BUTANE	1.798	43	676218	36.22	PPBV		99
14) BROMOMETHANE	1.859	94	380493	35.73	PPBV		99
15) CHLOROETHANE	1.904	64	257541	34.46	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	910295	35.30	PPBV		100
17) ACETONITRILE	1.994	41	384504	28.62	PPBV		100
18) ACROLEIN	2.033	56	220730	35.64	PPBV		99
19) FREON 123	2.049	83	996862	38.68	PPBV		100
20) FREON 123A	2.065	117	586604	38.26	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1049426	35.69	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	888452	34.78	PPBV		100
23) ACETONE	2.071	58	248365	35.92	PPBV		96
24) PENTANE	2.238	42	472130	34.15	PPBV		100
25) IODOMETHANE	2.299	142	1038259	38.79	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	419658	37.54	PPBV		98
27) CARBON DISULFIDE	2.463	76	1201974	37.99	PPBV		97
28) ETHANOL	1.930	45	213512	31.01	PPBV		100
29) BROMOETHENE	2.004	106	389718	36.91	PPBV		100
30) ACRYLONITRILE	2.209	52	360634	37.39	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	378529	33.80	PPBV		95
32) 3-CHLOROPROPENE	2.406	76	219238	36.95	PPBV		95
33) FREON 113	2.460	151	643045	38.50	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	441405	35.87	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.335	59	985604	31.02	PPBV		100
36) METHYL TERTIARY BUTYL ...	2.791	73	1301474	37.36	PPBV		100
37) TETRAHYDROFURAN	3.463	72	204769	36.97	PPBV		98
38) HEXANE	3.242	57	870000	36.93	PPBV		97
39) VINYL ACETATE	2.830	86	130550	40.25	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	876273	37.13	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	232500	36.08	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	476500	37.74	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	251965	37.93	PPBV		92
44) ETHYL ACETATE	3.251	61	179704	40.87	PPBV		88
45) METHYL ACRYLATE	3.238	55	1081547	38.25	PPBV	#	100
46) CHLOROFORM	3.264	83	920953	37.55	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	1014851	38.86	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.824	97	979950	38.31	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1037151	39.82	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	713561	37.86	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.129	78	1384237	36.79	PPBV		99
53)	CYCLOHEXANE	4.335	84	620038	38.40	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.586	71	325381	40.82	PPBV		100
55)	TRICHLOROETHENE	5.016	95	627429	36.24	PPBV		100
56)	1,2-DICHLOROPROPANE	4.785	63	583236	38.36	PPBV		100
57)	DIBROMOMETHANE	4.746	174	542289	36.49	PPBV		99
58)	ETHYL ACRYLATE	4.904	55	1354109	40.04	PPBV		100
59)	BROMODICHLOROMETHANE	4.965	83	1056193	38.42	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	2697169	35.45	PPBV		100
61)	1,4-DIOXANE	5.023	88	307098m	38.33	PPBV		
62)	HEPTANE	5.422	43	919337	36.76	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	535566	38.93	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.042	58	535813	35.65	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	931150	41.03	PPBV		98
66)	TOLUENE	7.135	91	1737506	39.79	PPBV		100
67)	1,3-DICHLOROPROPANE	7.196	76	888887	40.85	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	837419	41.75	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.769	83	506821	41.21	PPBV		99
70)	2-HEXANONE	7.698	58	721391	33.68	PPBV		98
71)	ETHYL METHACRYLATE	7.836	69	919855	40.41	PPBV		97
72)	TETRACHLOROETHENE	8.849	164	647021	40.75	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.666	129	1078202	44.36	PPBV		100
74)	1,2-DIBROMOETHANE	8.007	107	940297	41.96	PPBV		100
75)	OCTANE	9.000	43	1299991	39.19	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.064	131	780177	43.93	PPBV		100
78)	CHLOROBENZENE	10.052	112	1423127	41.32	PPBV		99
79)	ETHYLBENZENE	10.929	91	2363041	41.92	PPBV		100
80)	M,P-XYLENE	11.357	91	3630117	78.82	PPBV		99
81)	O-XYLENE	12.289	91	1842699	41.40	PPBV		98
82)	STYRENE	12.077	104	1452853	44.73	PPBV		99
83)	NONANE	13.412	43	1380586	39.45	PPBV		99
84)	BROMOFORM	11.167	173	961757	47.95	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	12.306	83	1339122	42.27	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.585	75	1047163	42.19	PPBV		100
88)	ISOPROPYLBENZENE	13.797	120	695388	41.27	PPBV		99
89)	BROMOBENZENE	13.666	77	1318537	40.55	PPBV		100
90)	2-CHLOROTOLUENE	14.794	126	639043	41.17	PPBV		100
91)	N-PROPYLBENZENE	15.135	120	740280	42.04	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	2747294	42.04	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.852	105	2286498	41.87	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.177	118	1155488	43.69	PPBV		100
95)	TERT-BUTYLBENZENE	16.505	134	554595	41.12	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.514	105	2336862	43.35	PPBV		100
97)	BENZYL CHLORIDE	16.608	91	2115310	52.85	PPBV		99
98)	M-DICHLOROBENZENE	16.575	146	1509487	40.35	PPBV		99
99)	P-DICHLOROBENZENE	16.672	146	1527061	41.45	PPBV		100
100)	O-DICHLOROBENZENE	16.993	146	1428015	41.29	PPBV		99
101)	SEC-BUTYLBENZENE	16.820	134	675130	42.40	PPBV		100
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2270987	41.87	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.016	134	742541	42.05	PPBV		100
104)	N-BUTYLBENZENE	17.386	134	743410	45.09	PPBV		99
105)	HEXACHLOROETHANE	17.566	117	951757	47.76	PPBV		99
106)	HEXACHLOROBUTADIENE	18.640	225	1162376	48.46	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.325	180	1534367	56.96	PPBV		99
108)	NAPHTHALENE	18.373	128	3606459	60.99	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	2205824	32.90	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

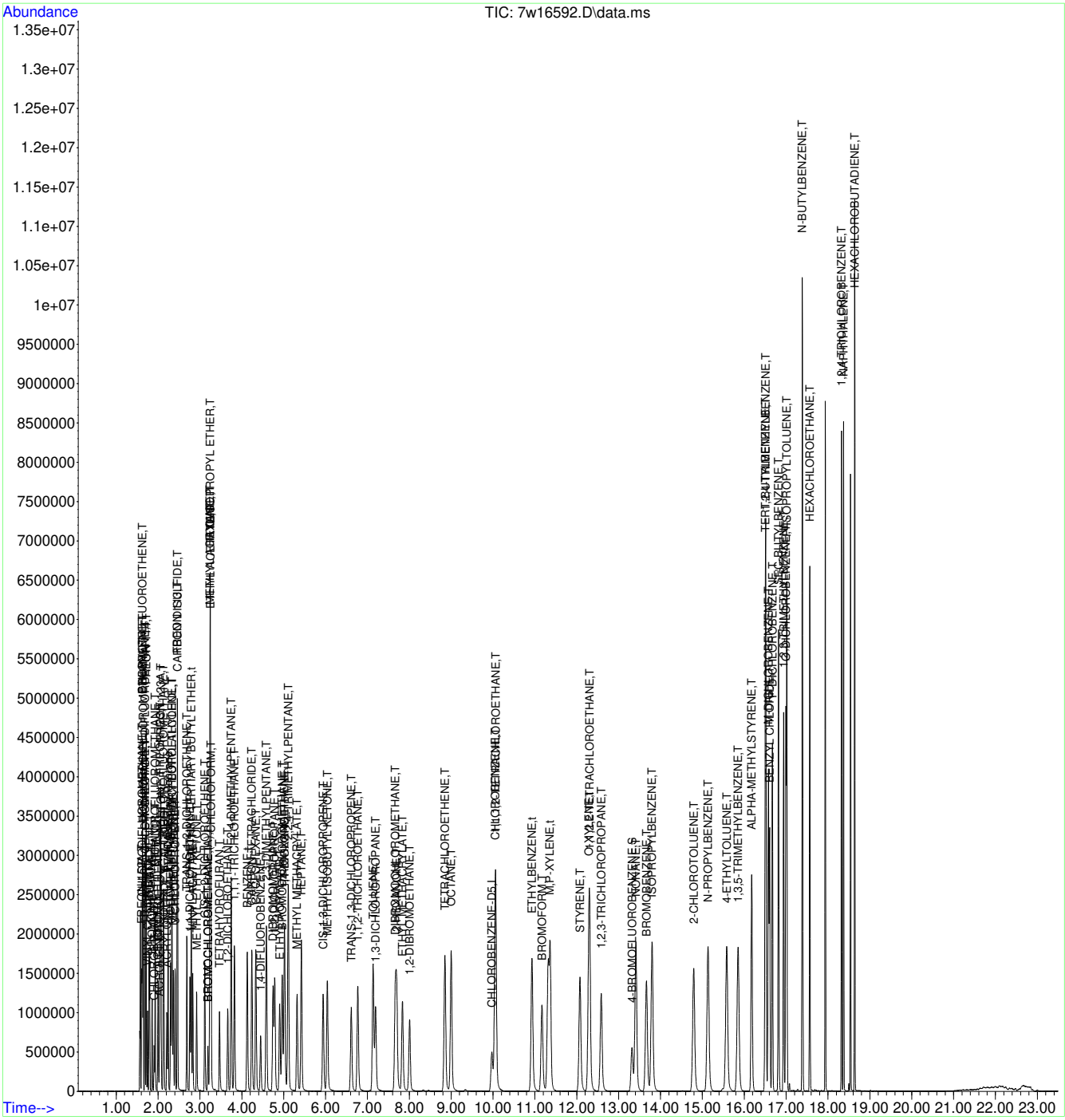
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

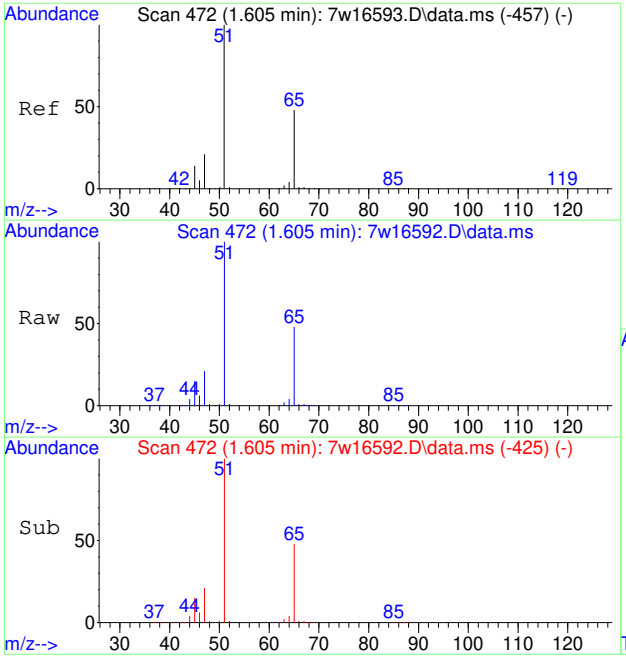
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

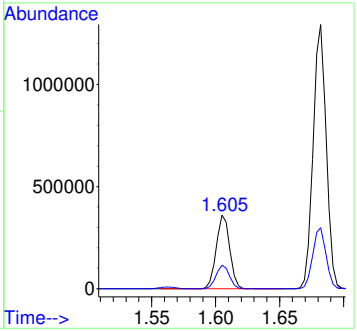


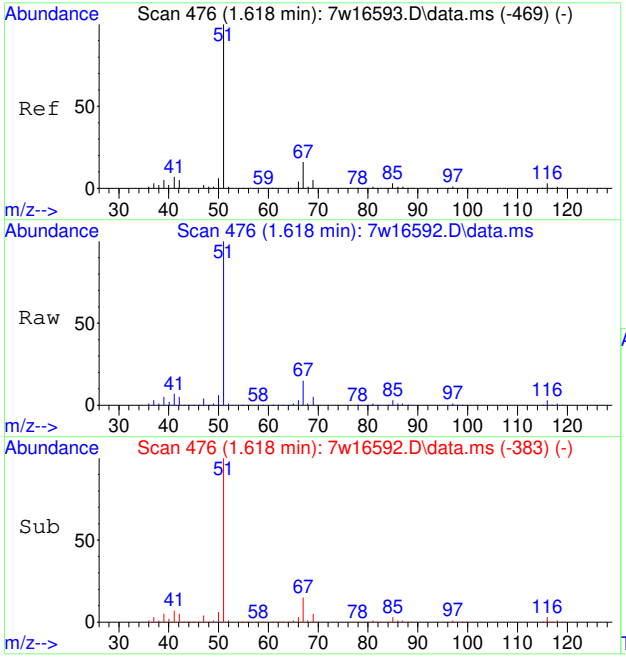


#3
FREON 152A
Concen: 37.90 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 264206

Ion	Ratio	Lower	Upper
65	100		
45	31.8	23.0	42.8

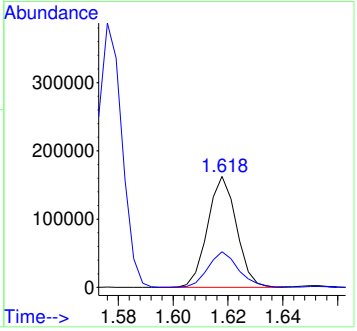


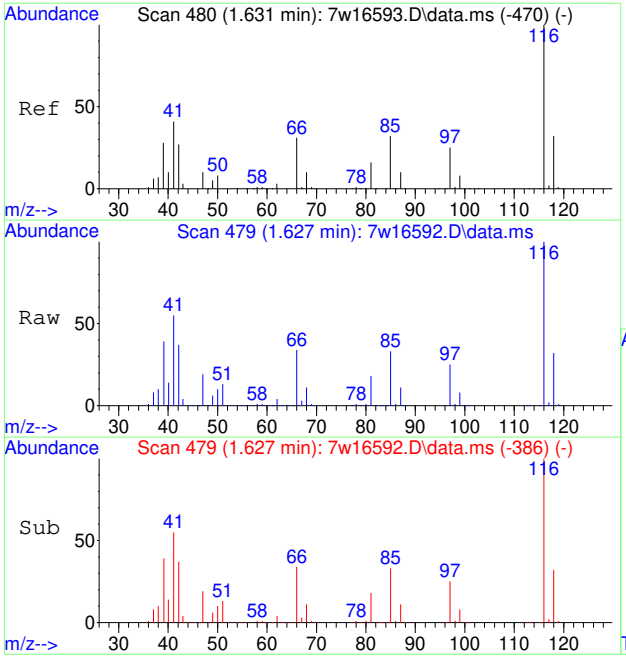


#4
CHLORODIFLUOROMETHANE
Concen: 39.64 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 119359

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

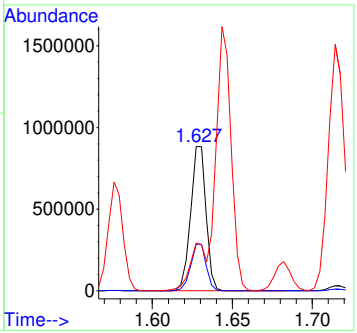


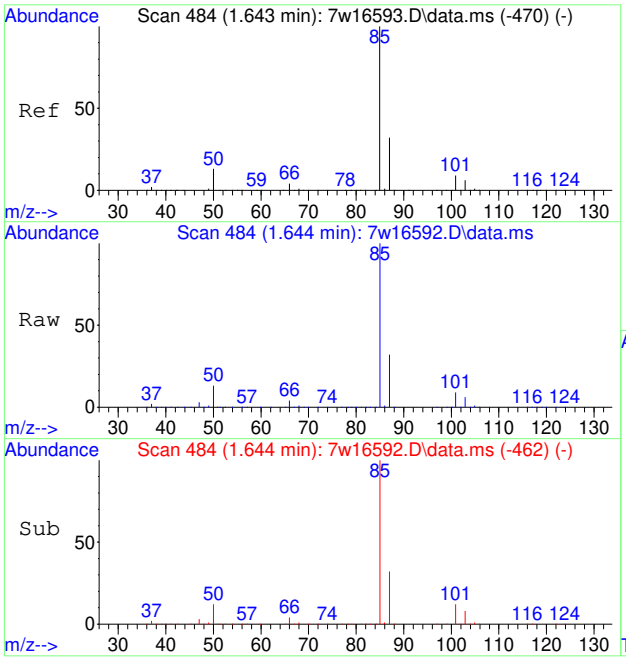


#5
CHLOROTRIFLUOROETHENE
Concen: 41.37 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:116 Resp: 590023

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.6	42.0
85	211.8	152.4	283.0

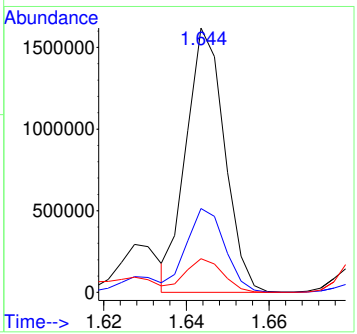


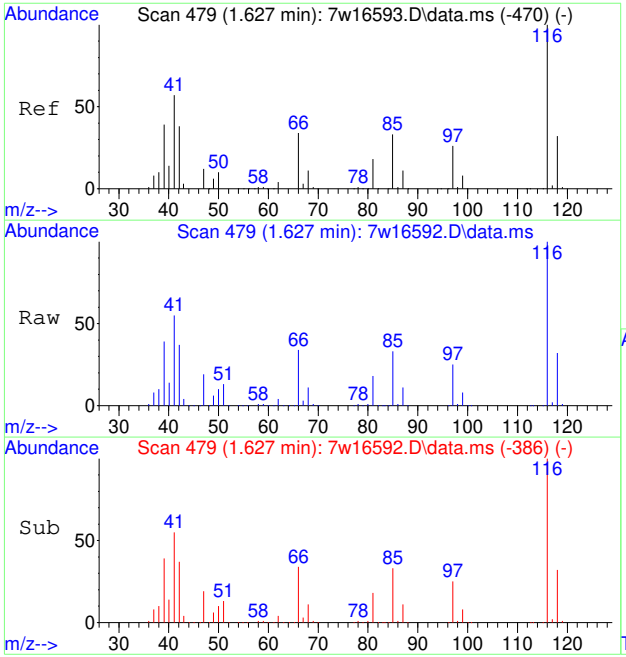


#6
DICHLORODIFLUOROMETHANE
Concen: 33.07 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1043482

Ion	Ratio	Lower	Upper
85	100		
87	38.5	23.0	42.6
50	22.4	13.5	25.1

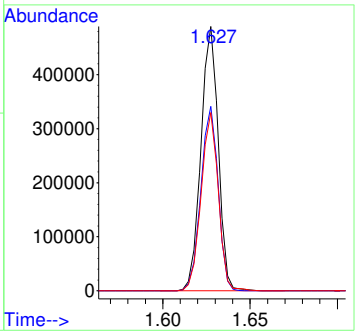


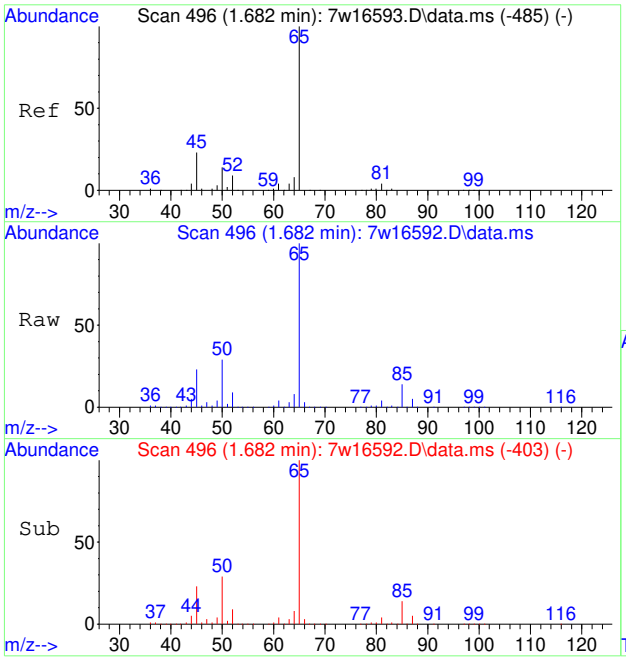


#7
PROPYLENE
Concen: 36.84 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 337148

Ion	Ratio	Lower	Upper
41	100		
39	69.6	50.5	93.7
42	66.9	47.0	87.4

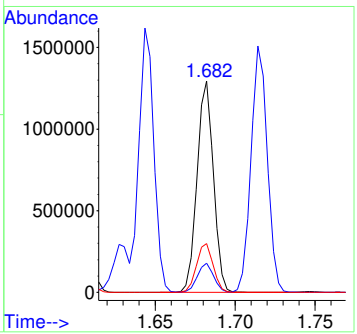


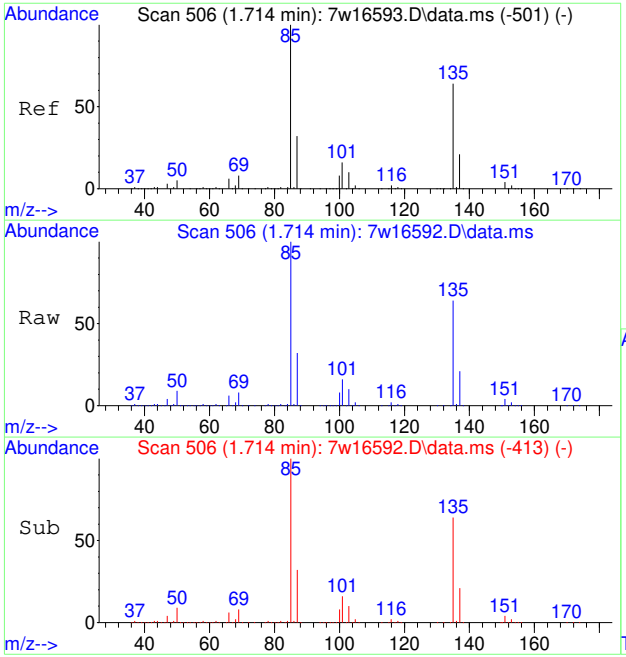


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 38.25 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 920580

Ion	Ratio	Lower	Upper
65	100		
85	13.7	9.4	17.4
45	23.4	16.9	31.3

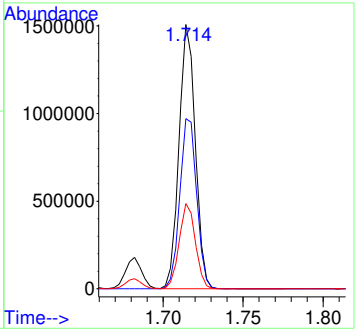


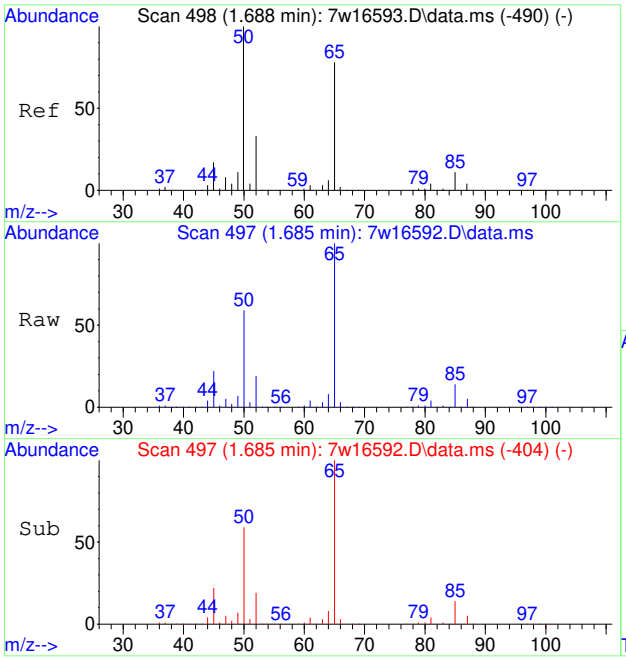


#9
FREON 114
Concen: 38.99 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1067029

Ion	Ratio	Lower	Upper
85	100		
135	66.8	46.1	85.7
87	32.1	22.6	42.0

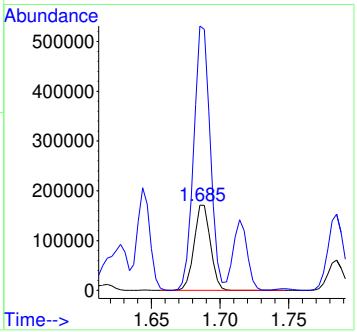


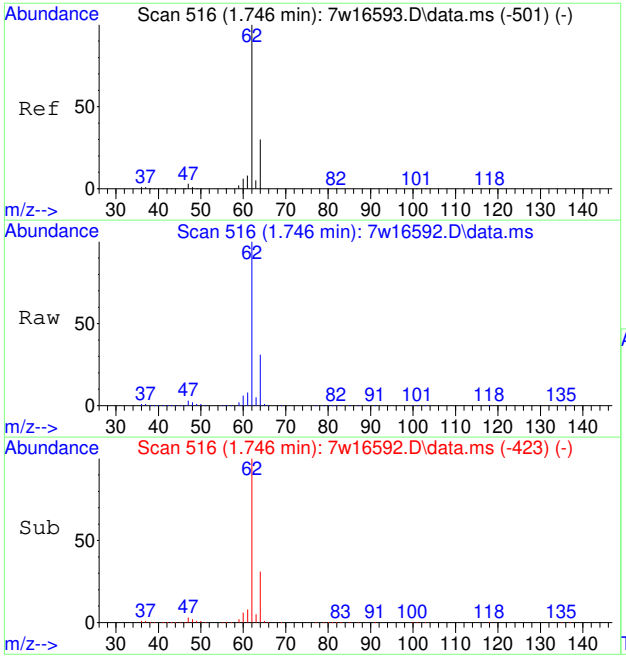


#10
CHLOROMETHANE
Concen: 36.20 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 141787

Ion	Ratio	Lower	Upper
52	100		
50	311.9	225.6	419.0

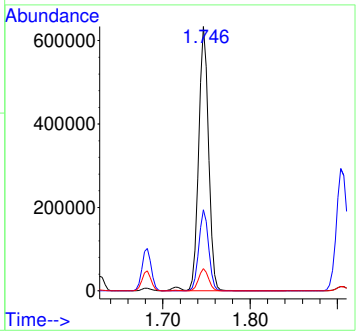


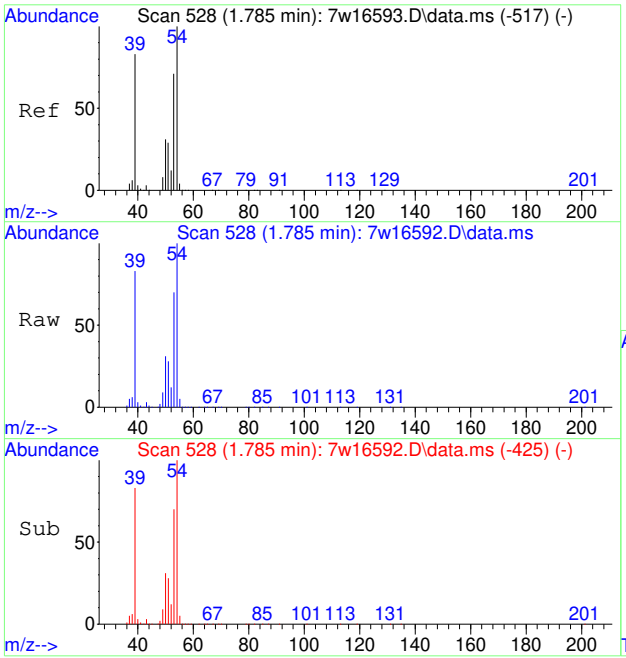


#11
VINYL CHLORIDE
Concen: 36.90 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 502517

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.3	5.7	10.5

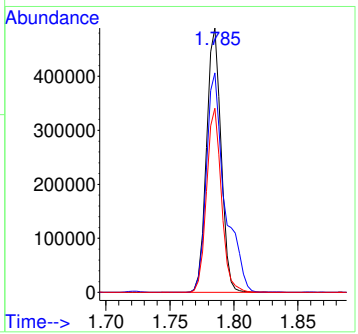


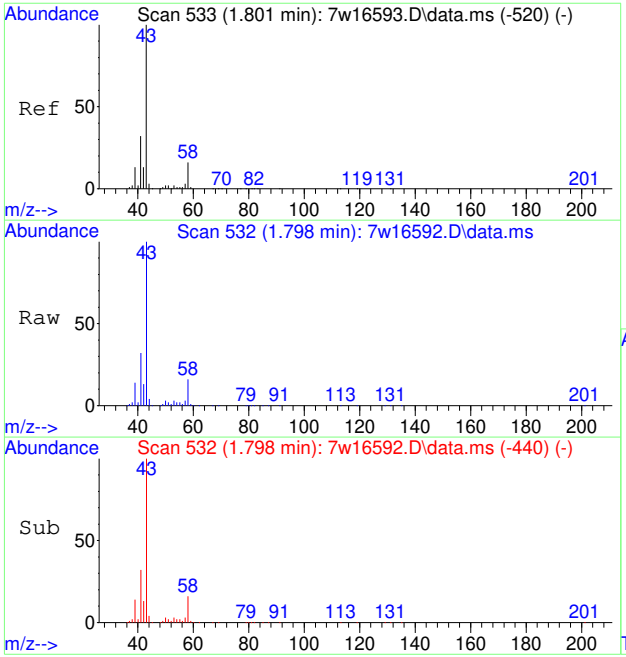


#12
1,3-BUTADIENE
Concen: 35.40 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 54 Resp: 386481

Ion	Ratio	Lower	Upper
54	100		
39	105.3	78.4	138.4
53	71.4	40.9	100.9

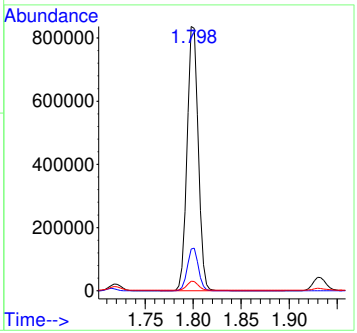


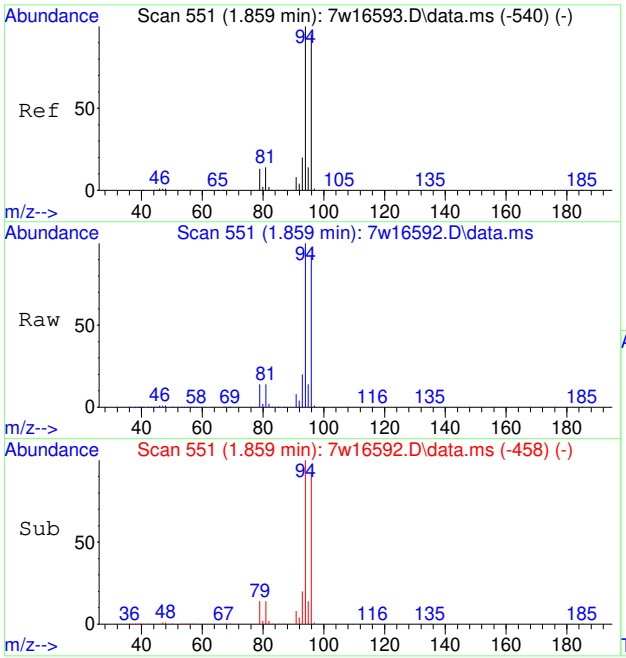


#13
N-BUTANE
Concen: 36.22 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 676218

Ion	Ratio	Lower	Upper
43	100		
58	16.0	11.0	20.4
44	3.5	2.6	4.8

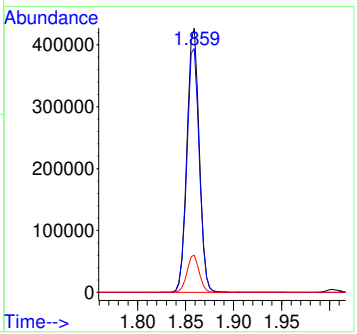


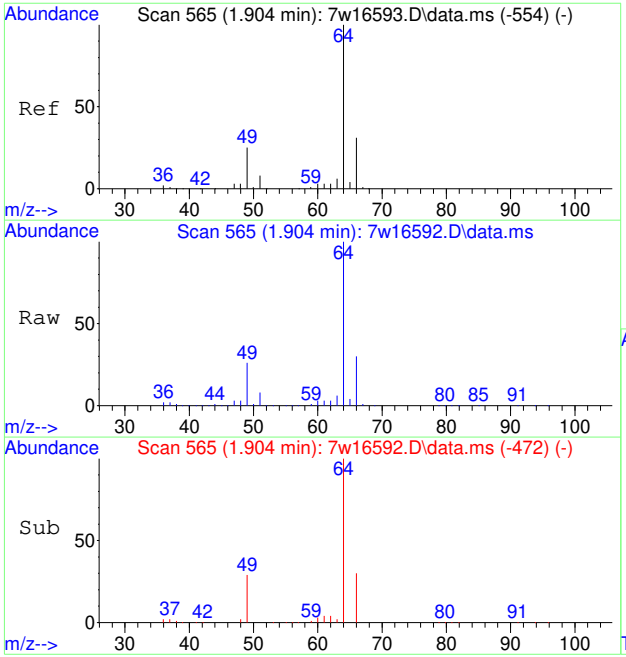


#14
BROMOMETHANE
Concen: 35.73 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 94 Resp: 380493

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	14.0	9.9	18.3

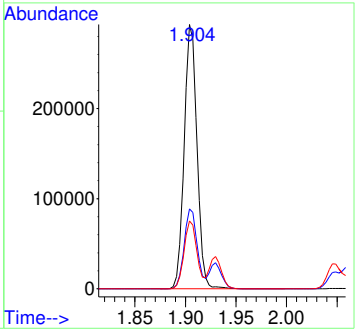


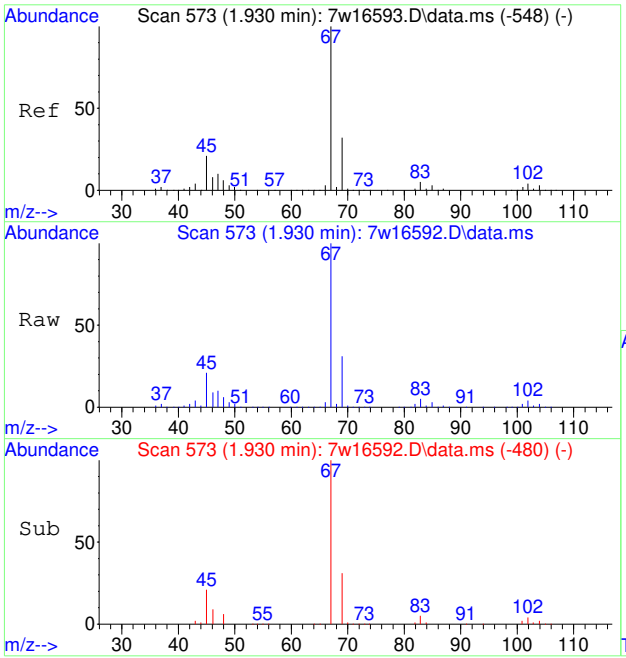


#15
CHLOROETHANE
Concen: 34.46 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 64 Resp: 257541

Ion	Ratio	Lower	Upper
64	100		
66	31.1	21.5	39.9
49	26.6	19.0	35.4

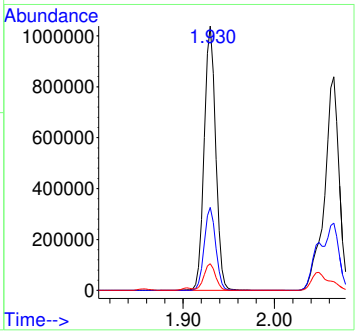


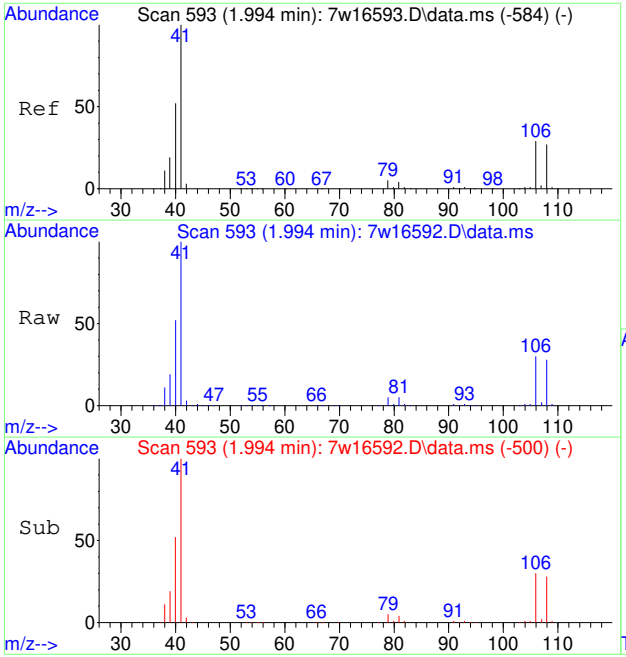


#16
DICHLOROFLUOROMETHANE
Concen: 35.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 910295

Ion	Ratio	Lower	Upper
67	100		
69	31.4	21.8	40.6
47	11.0	8.0	14.8

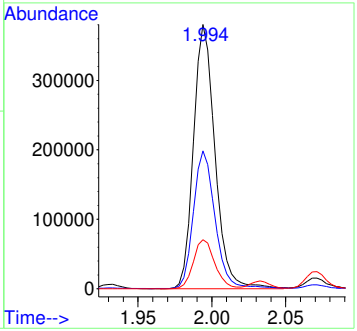


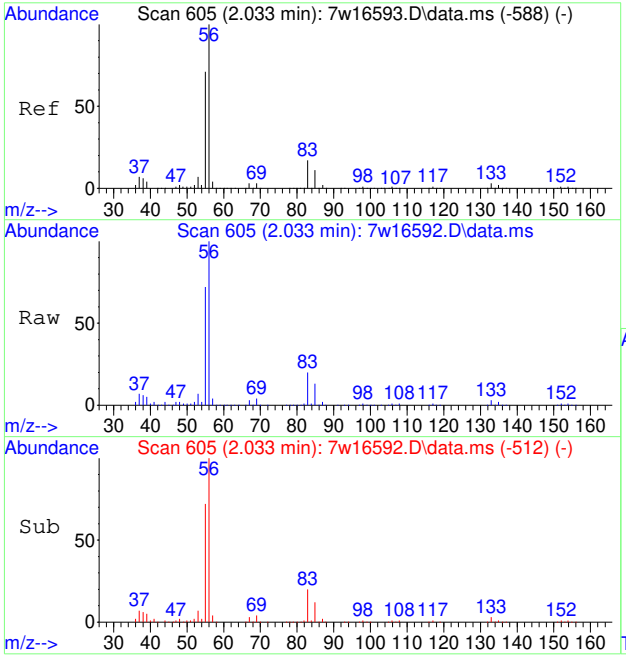


#17
ACETONITRILE
Concen: 28.62 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 384504

Ion	Ratio	Lower	Upper
41	100		
40	52.6	36.7	68.1
39	18.4	13.1	24.3

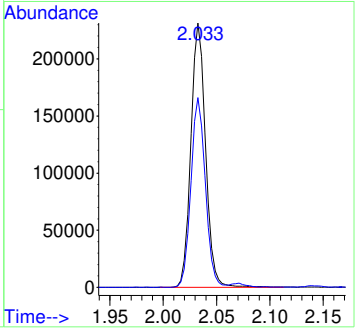


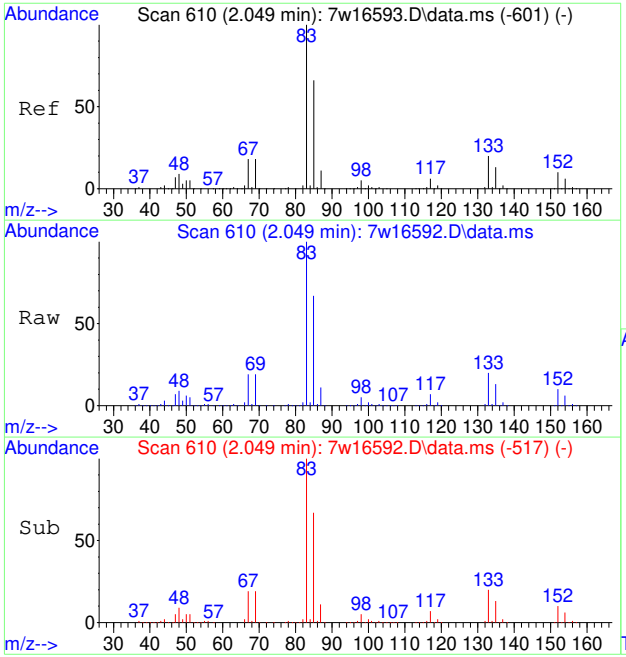


#18
ACROLEIN
Concen: 35.64 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 56 Resp: 220730

Ion	Ratio	Lower	Upper
56	100		
55	70.7	48.9	90.7

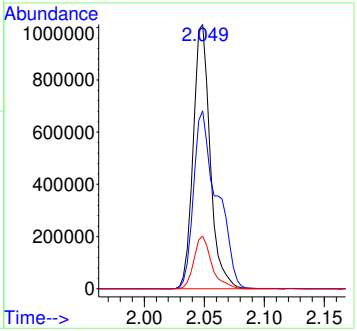


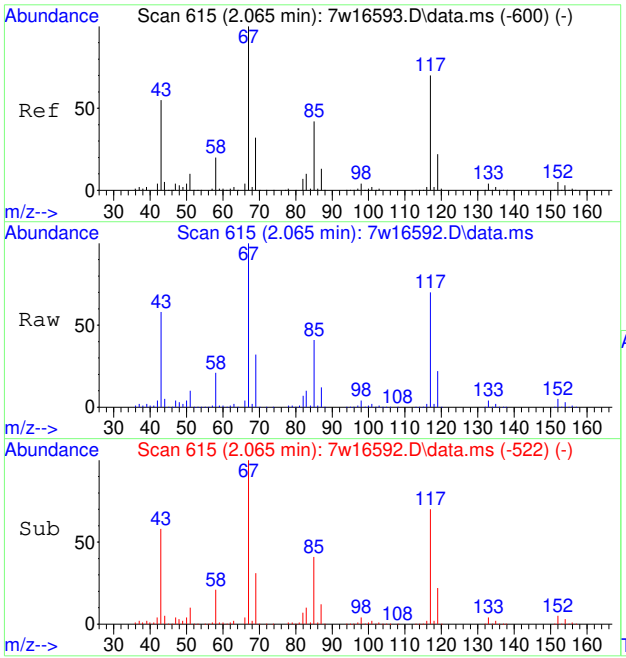


#19
FREON 123
Concen: 38.68 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 996862

Ion	Ratio	Lower	Upper
83	100		
85	93.1	64.9	120.5
133	20.9	14.7	27.3

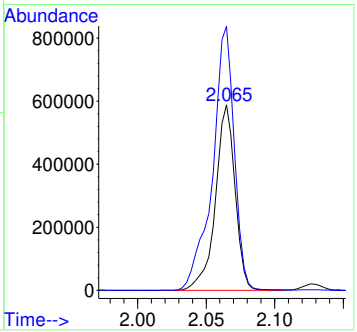


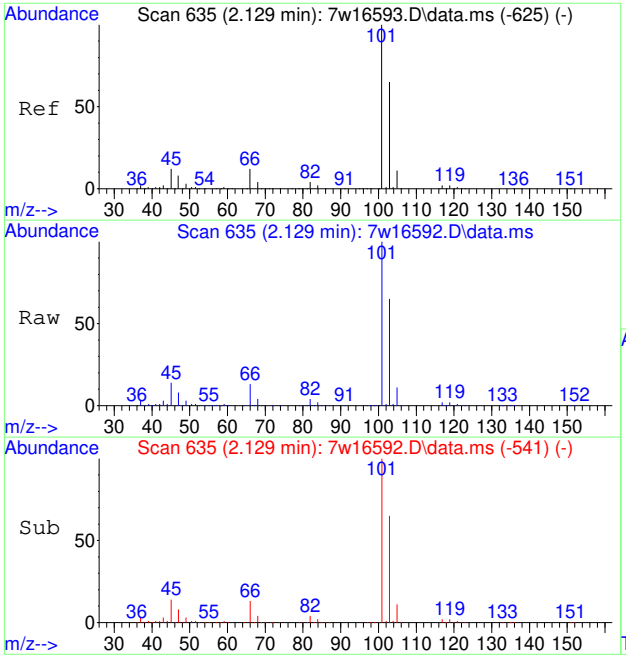


#20
FREON 123A
Concen: 38.26 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 586604

Ion	Ratio	Lower	Upper
117	100		
67	157.9	111.3	206.7

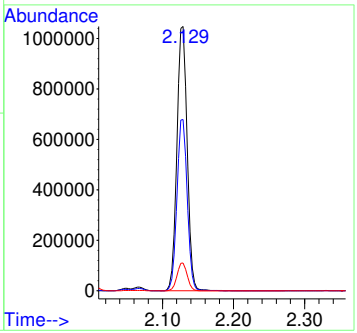


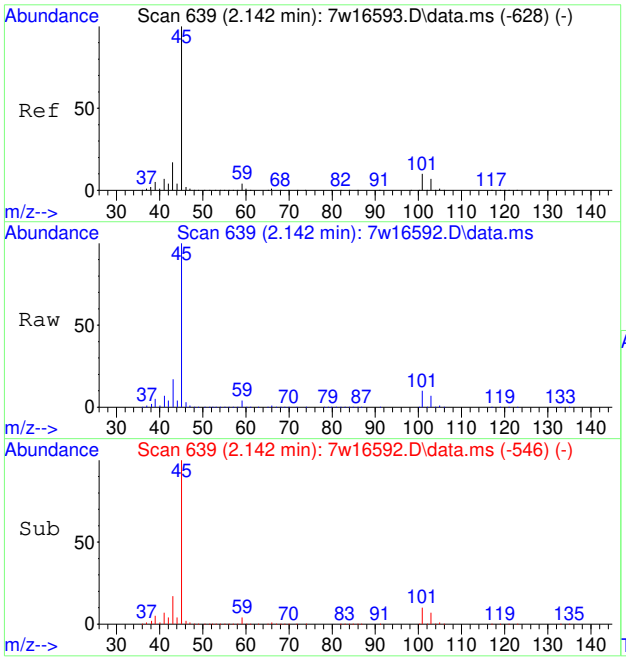


#21
TRICHLOROFLUOROMETHANE
Concen: 35.69 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:101 Resp: 1049426

Ion	Ratio	Lower	Upper
101	100		
103	64.8	45.2	84.0
105	10.5	7.3	13.5

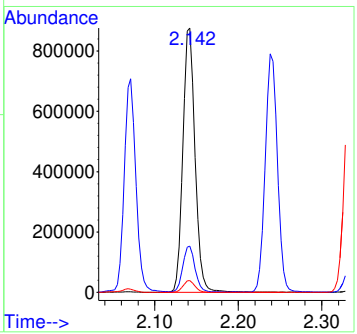


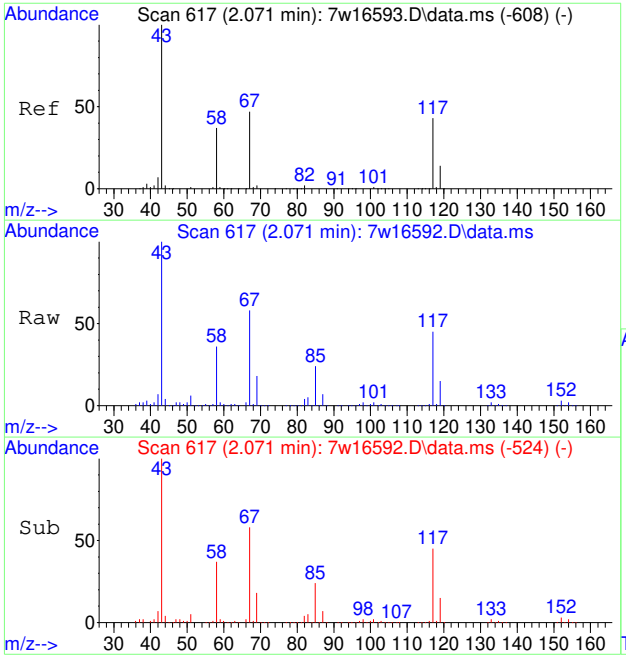


#22
ISOPROPYL ALCOHOL
Concen: 34.78 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 888452

Ion	Ratio	Lower	Upper
45	100		
43	17.7	12.5	23.3
59	4.5	3.1	5.7

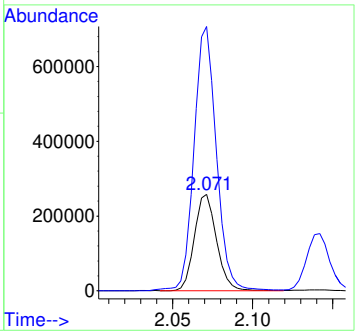


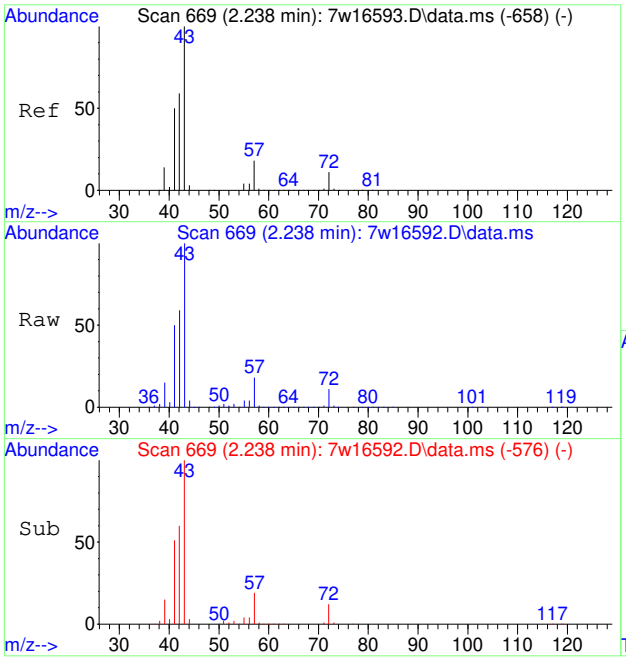


#23
ACETONE
Concen: 35.92 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 248365

Ion	Ratio	Lower	Upper
58	100		
43	276.2	198.6	368.8

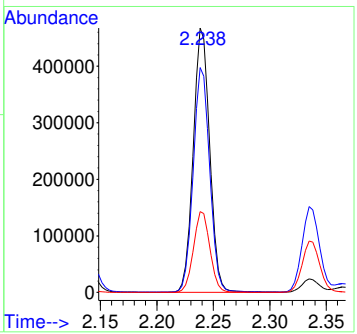


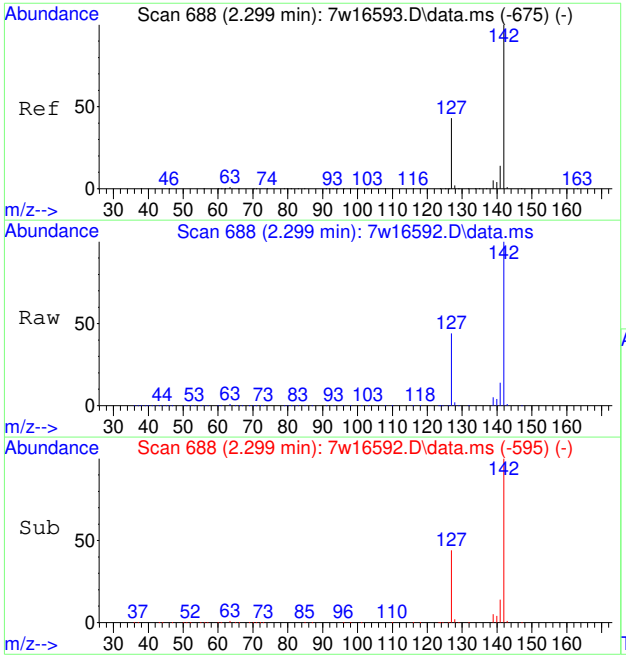


#24
PENTANE
Concen: 34.15 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 42 Resp: 472130

Ion	Ratio	Lower	Upper
42	100		
41	85.2	59.8	111.0
57	30.5	21.1	39.1

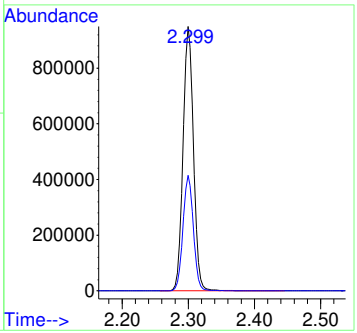


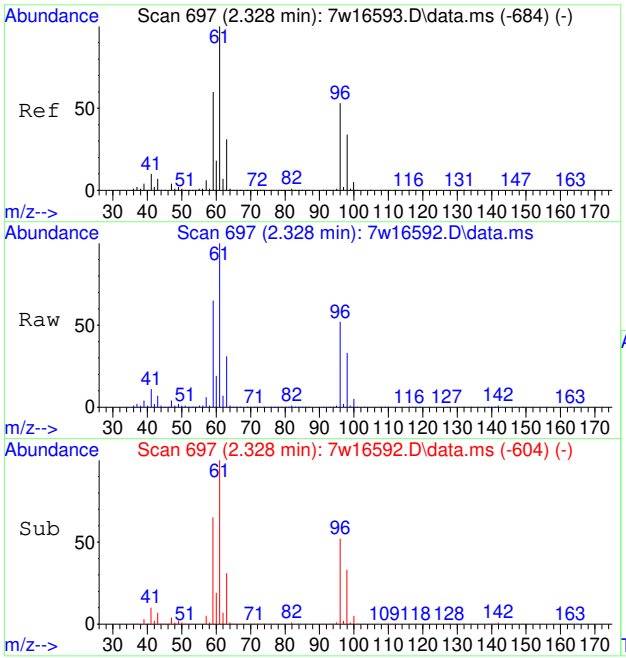


#25
IODOMETHANE
Concen: 38.79 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:142 Resp: 1038259

Ion	Ratio	Lower	Upper
142	100		
127	43.6	30.6	56.8

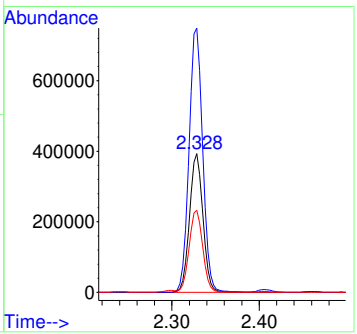


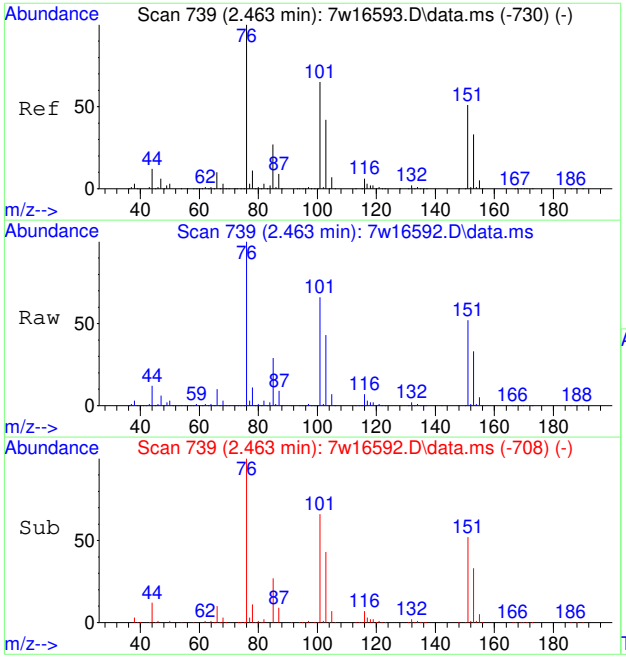


#26
1,1-DICHLOROETHYLENE
Concen: 37.54 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 419658

Ion	Ratio	Lower	Upper
96	100		
61	193.7	138.3	256.8
63	61.5	44.2	82.0

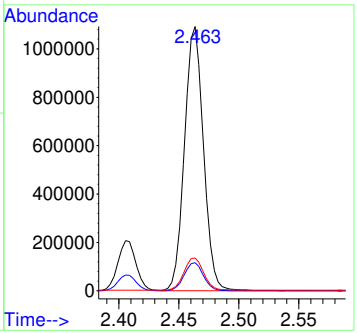


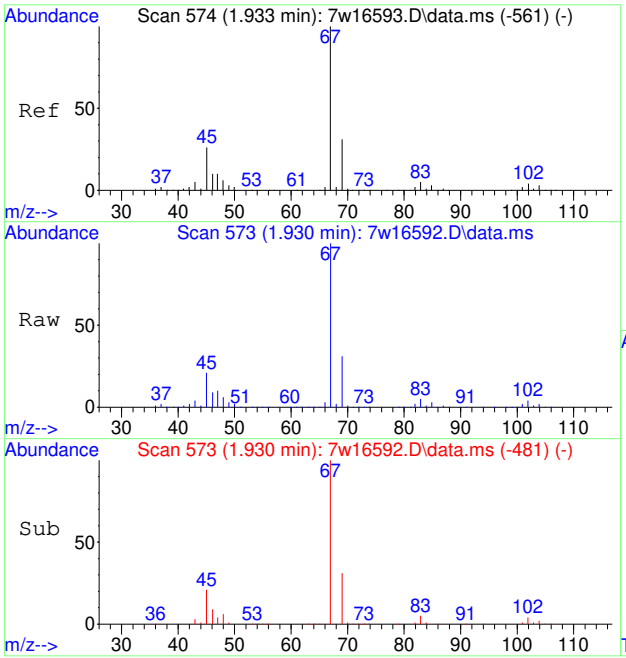


#27
CARBON DISULFIDE
Concen: 37.99 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 1201974

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.8	10.2	19.0

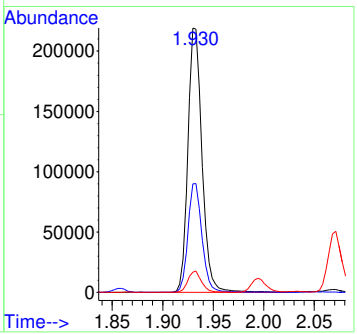


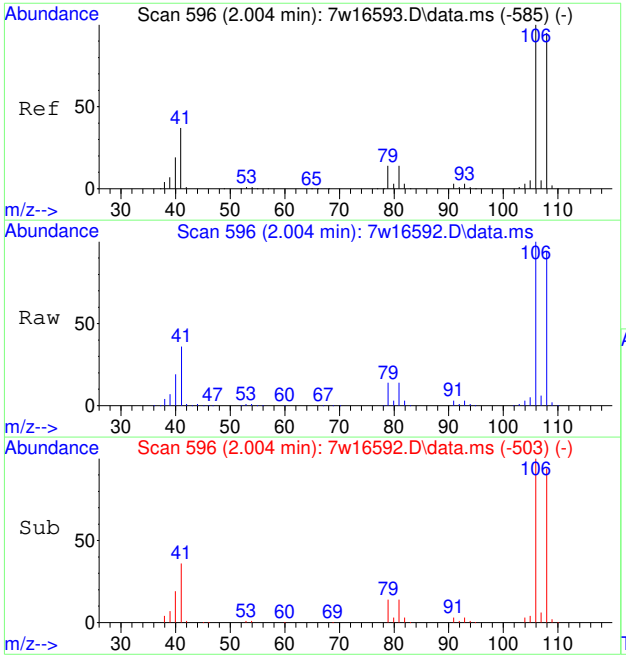


#28
ETHANOL
Concen: 31.01 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 213512

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.9	5.7	10.5

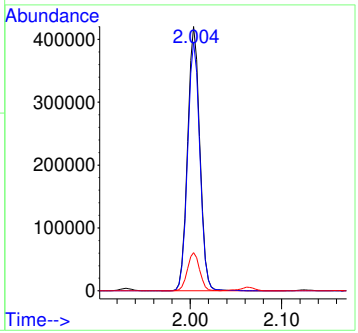


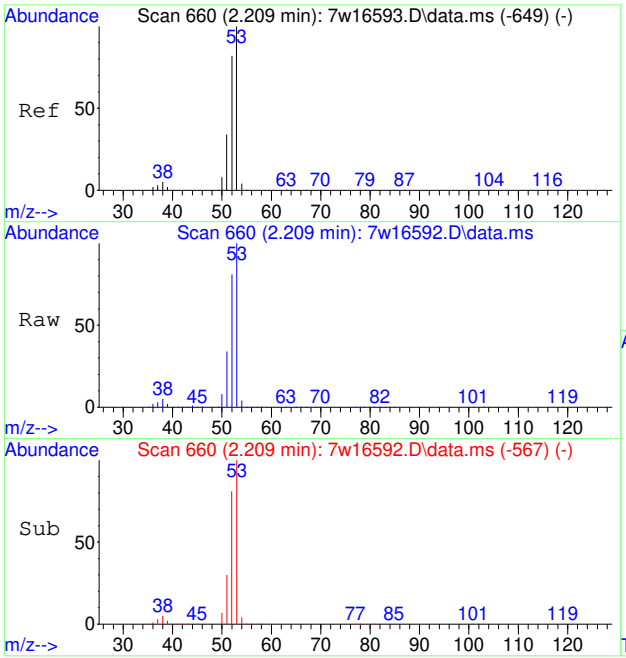


#29
BROMOETHENE
Concen: 36.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:106 Resp: 389718

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.5	10.6	19.8

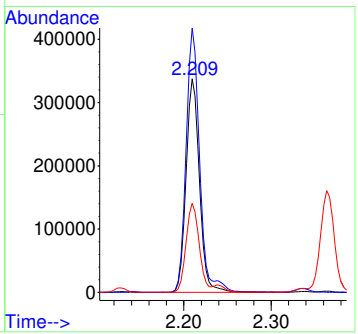


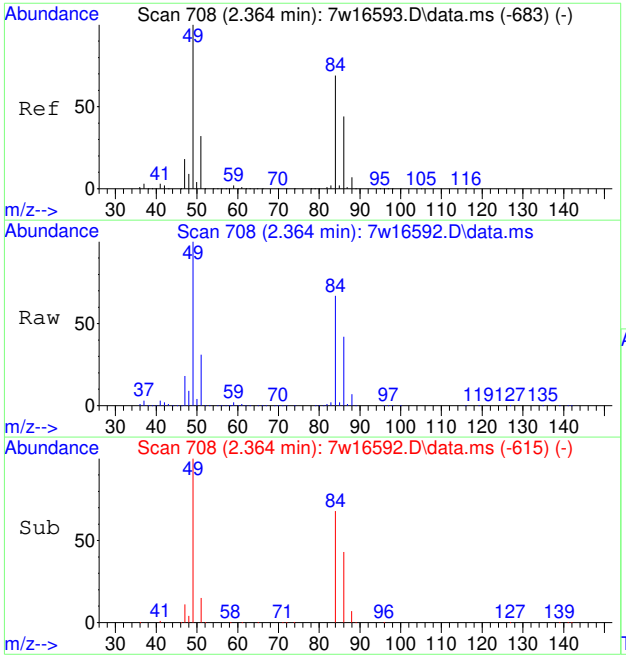


#30
ACRYLONITRILE
Concen: 37.39 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 360634

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.2	31.3	58.1

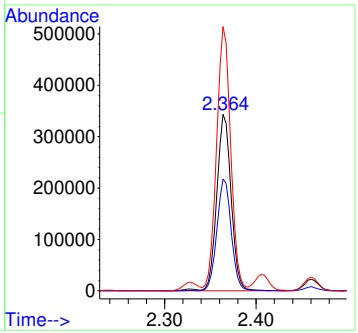


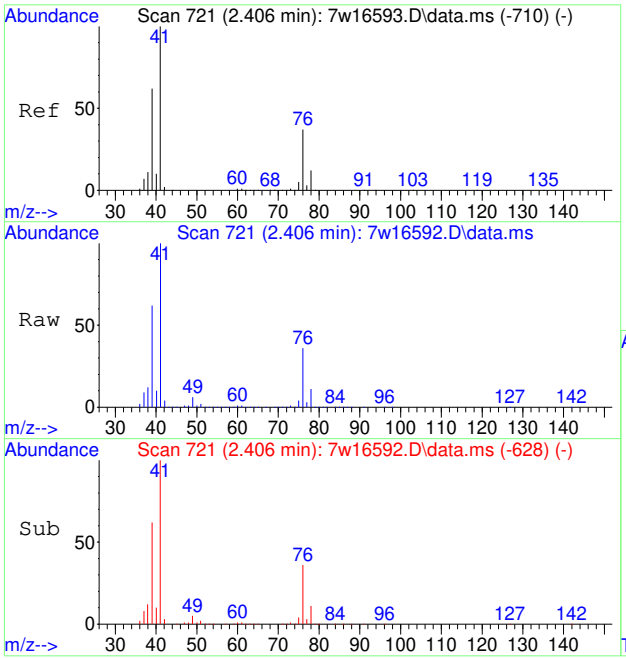


#31
METHYLENE CHLORIDE
Concen: 33.80 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 378529

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.3	82.3
49	147.1	109.5	203.3

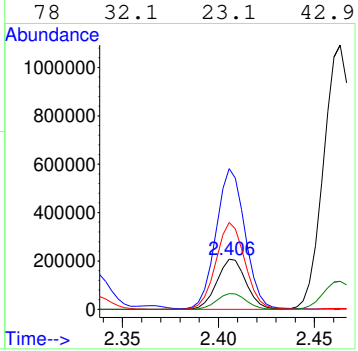


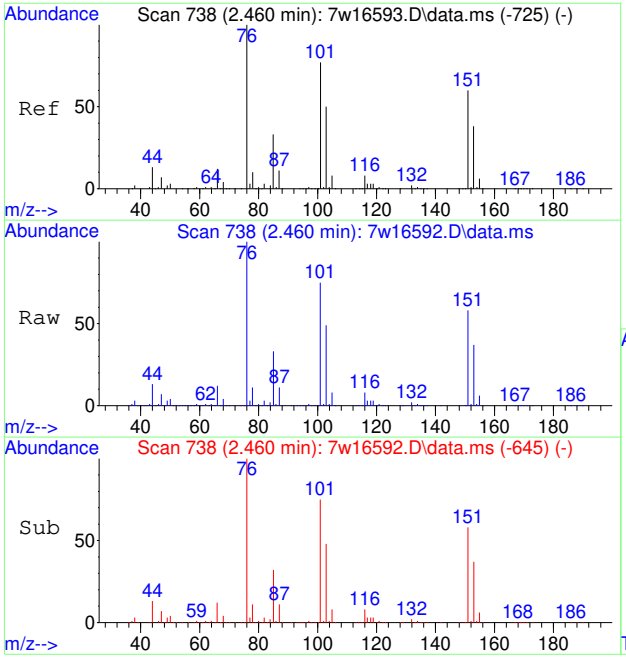


#32
3-CHLOROPROPENE
Concen: 36.95 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 219238

Ion	Ratio	Lower	Upper
76	100		
41	280.1	202.6	376.2
39	172.5	125.8	233.6
78	32.1	23.1	42.9

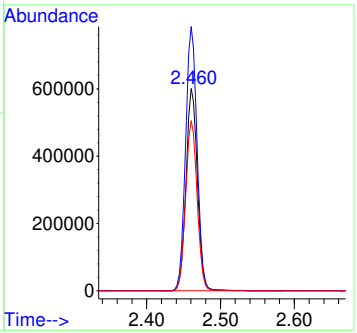


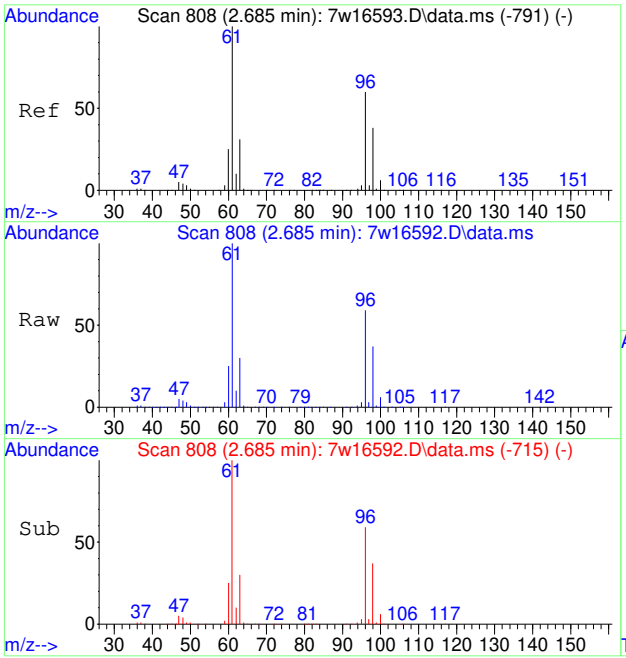


#33
FREON 113
Concen: 38.50 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:151 Resp: 643045

Ion	Ratio	Lower	Upper
151	100		
101	132.0	93.1	172.9
103	85.1	60.1	111.5

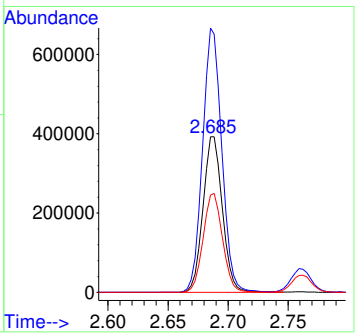


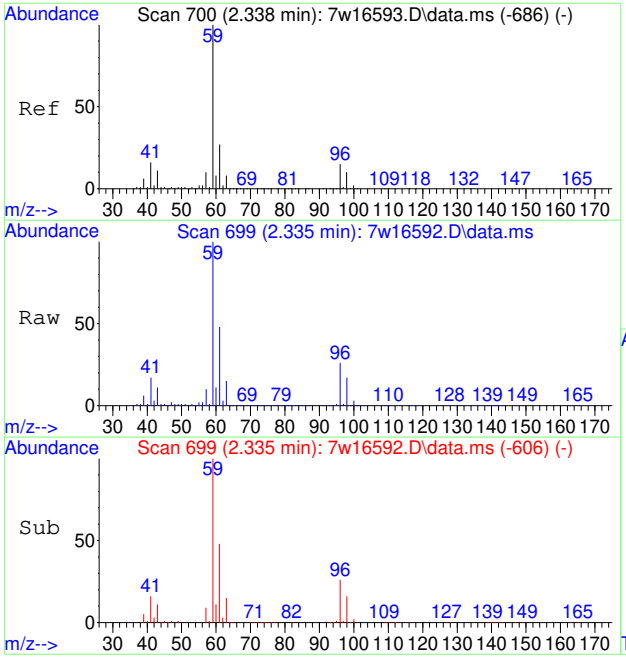


#34
TRANS-1,2-DICHLOROETHENE
Concen: 35.87 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 441405

Ion	Ratio	Lower	Upper
96	100		
61	167.8	119.6	222.0
98	63.6	44.9	83.5

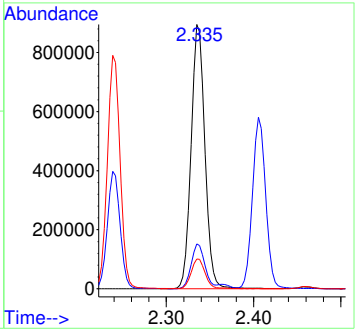


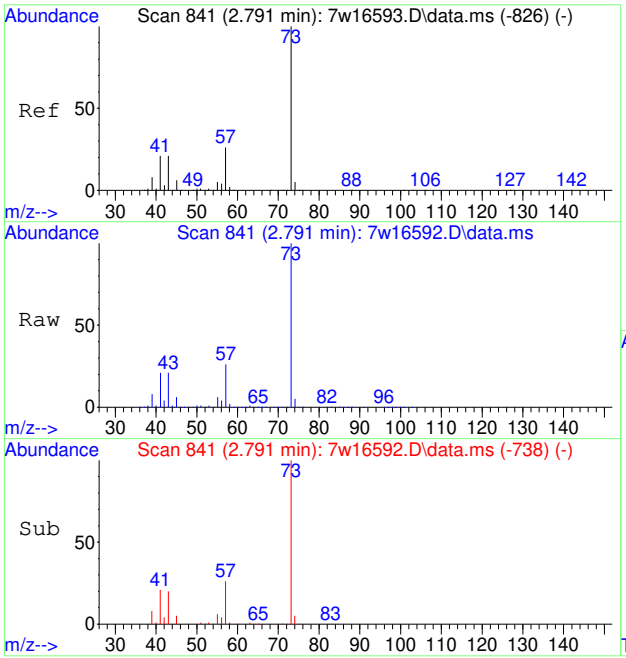


#35
TERTIARY BUTYL ALCOHOL
Concen: 31.02 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 985604

Ion	Ratio	Lower	Upper
59	100		
41	18.1	12.9	23.9
43	11.4	8.0	14.8

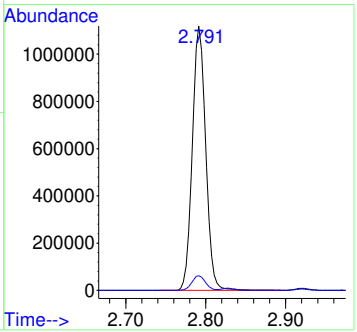


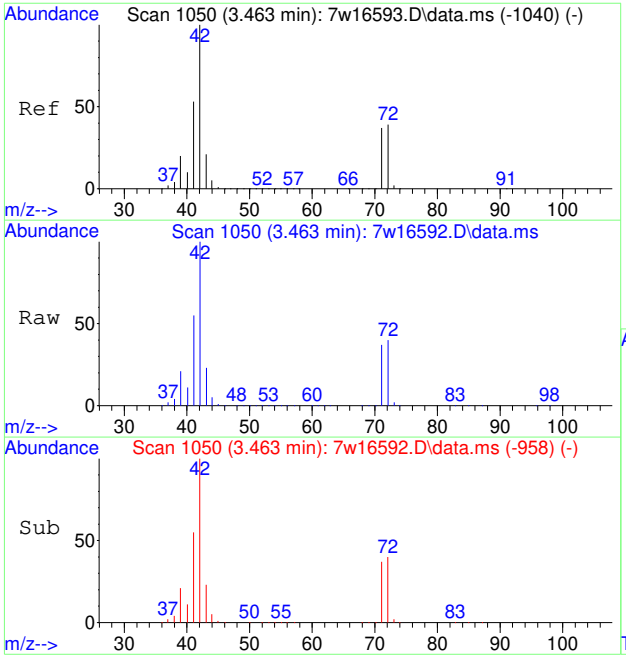


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.36 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 73 Resp: 1301474

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

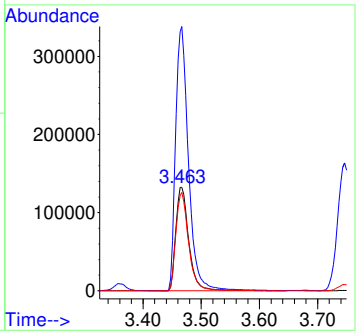


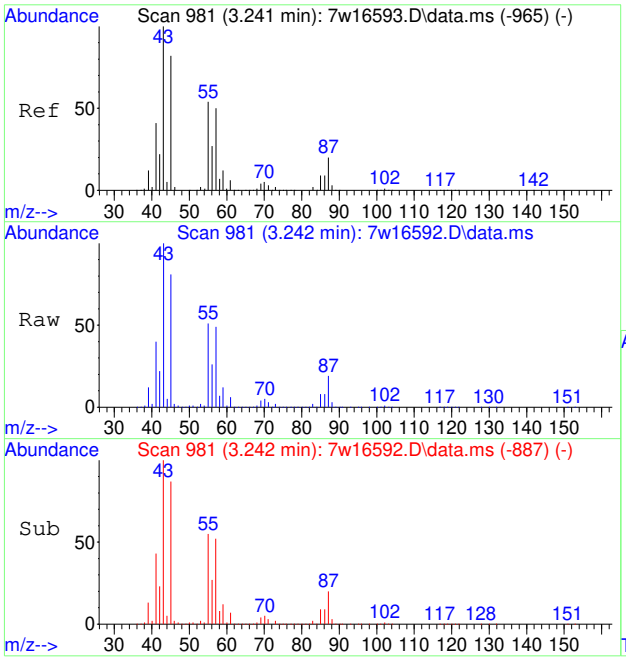


#37
TETRAHYDROFURAN
Concen: 36.97 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 204769

Ion	Ratio	Lower	Upper
72	100		
42	252.8	180.3	334.8
71	93.1	65.8	122.2

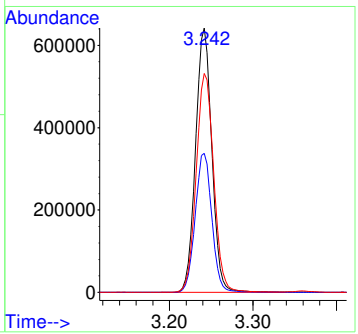


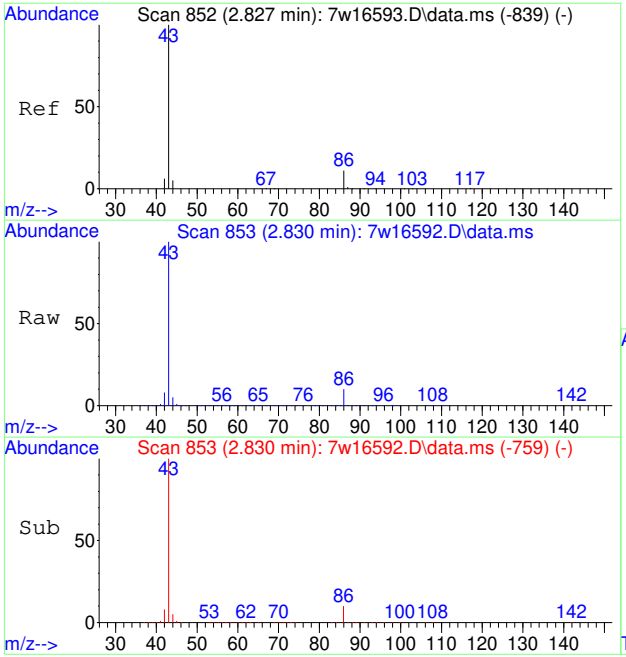


#38
HEXANE
Concen: 36.93 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 870000

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	89.4	65.9	122.5

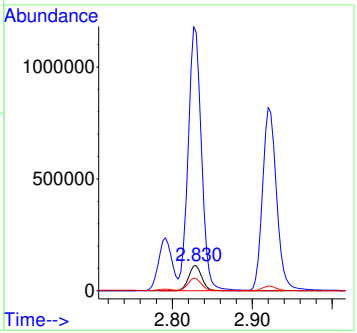


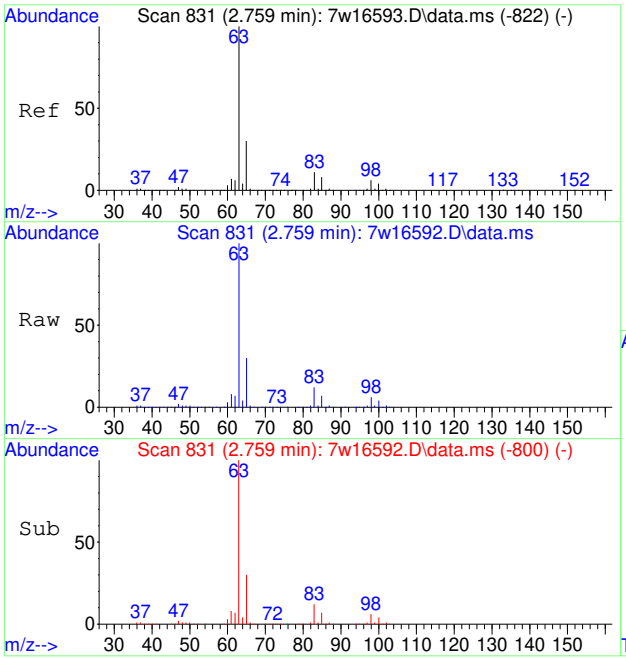


#39
VINYL ACETATE
Concen: 40.25 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 86 Resp: 130550

Ion	Ratio	Lower	Upper
86	100		
43	1050.6	758.7	1408.9
44	50.2	39.5	73.3

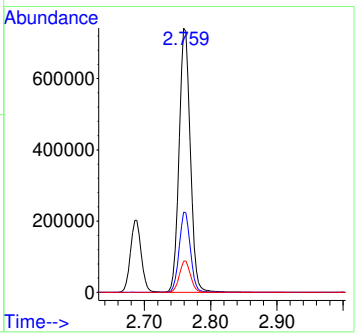


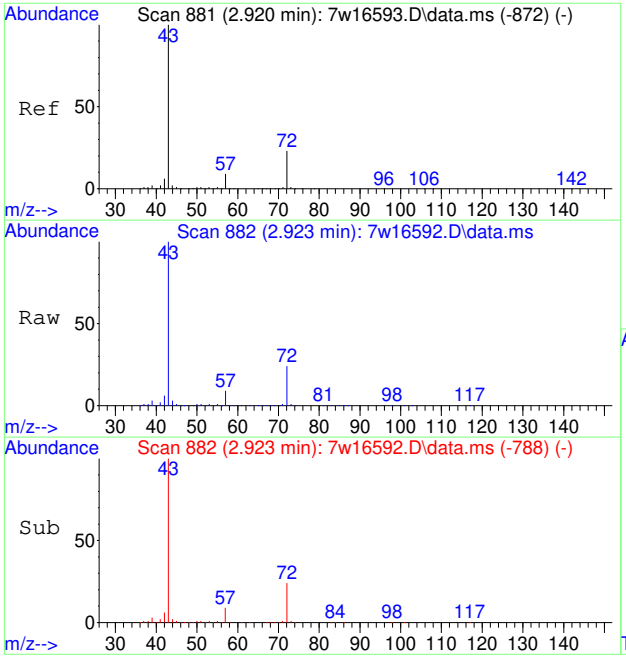


#40
1,1-DICHLOROETHANE
Concen: 37.13 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 876273

Ion	Ratio	Lower	Upper
63	100		
65	30.5	21.4	39.8
83	11.9	8.3	15.5

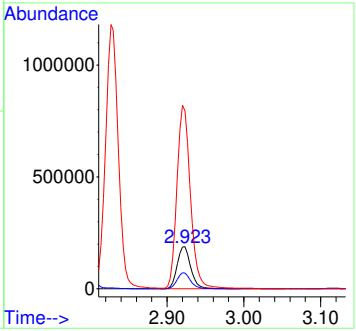


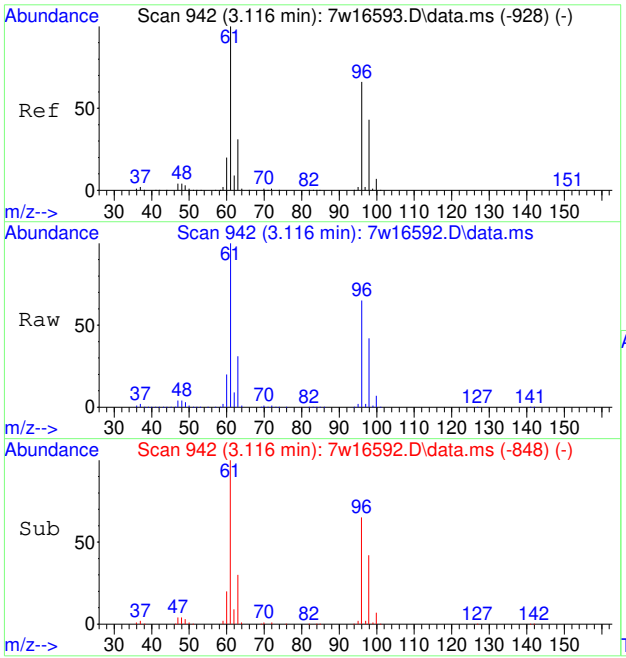


#41
METHYL ETHYL KETONE
Concen: 36.08 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 232500

Ion	Ratio	Lower	Upper
72	100		
57	37.9	26.9	49.9
43	435.4	309.4	574.6

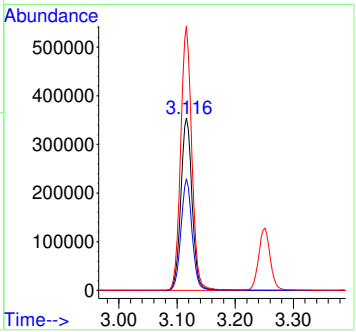


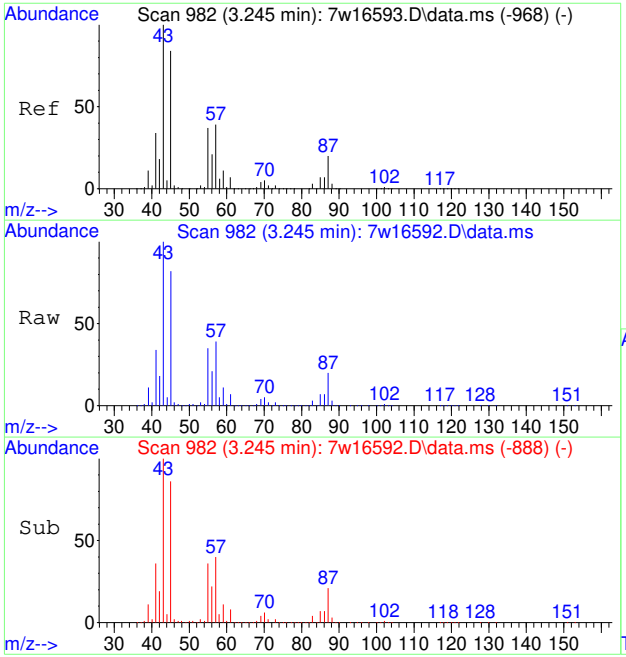


#42
CIS-1,2-DICHLOROETHENE
Concen: 37.74 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 476500

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	151.3	107.3	199.3

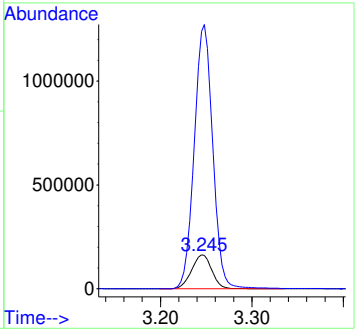


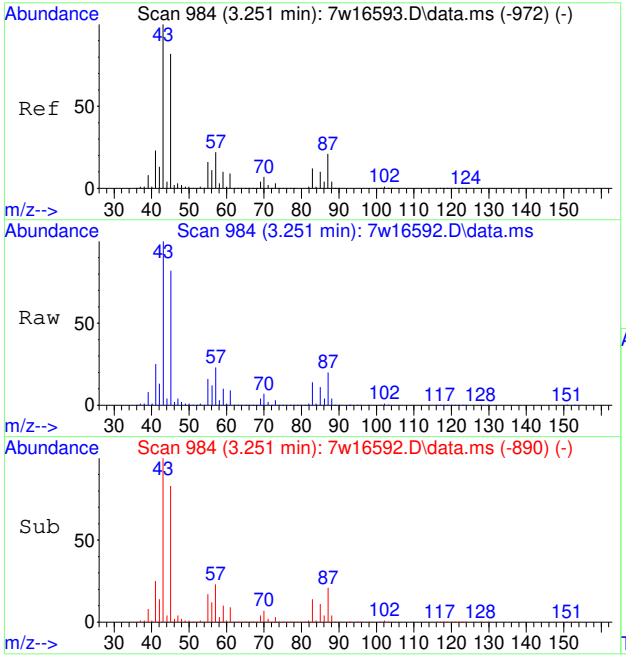


#43
DIISOPROPYL ETHER
Concen: 37.93 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 251965

Ion	Ratio	Lower	Upper
59	100		
45	711.3	517.6	961.2

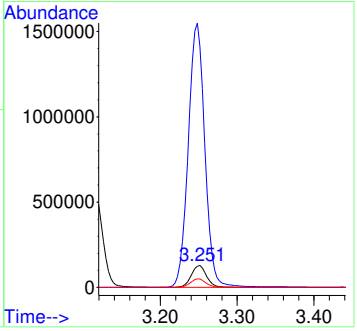


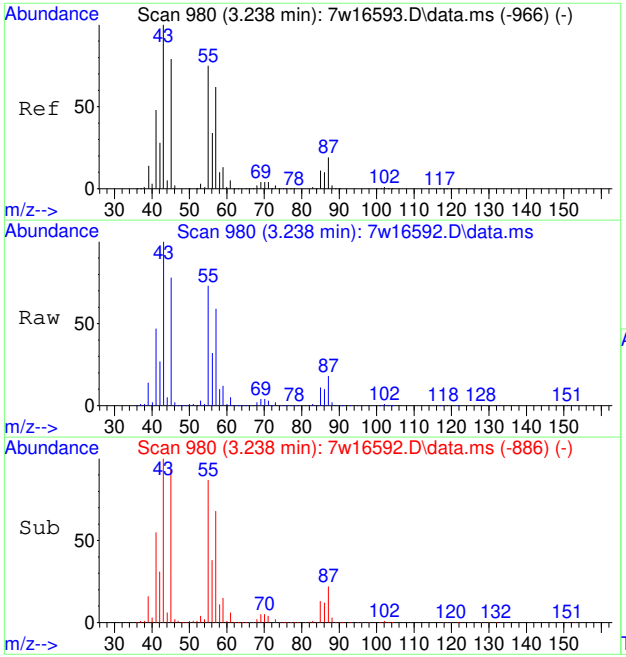


#44
ETHYL ACETATE
Concen: 40.87 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 61 Resp: 179704

Ion	Ratio	Lower	Upper
61	100		
43	1294.1	955.4	1774.4
88	39.7	27.6	51.2

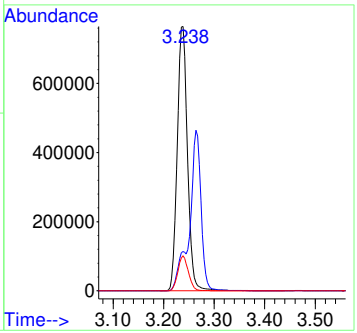


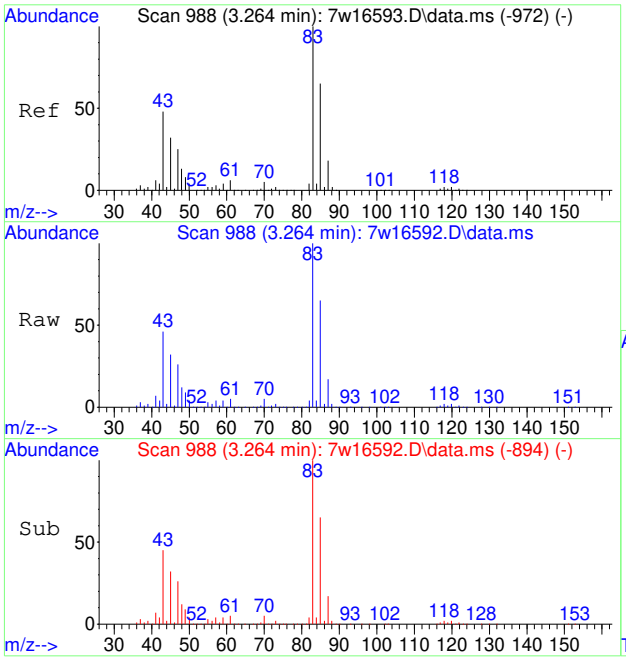


#45
METHYL ACRYLATE
Concen: 38.25 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1081547

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

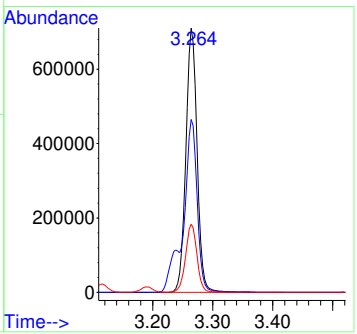


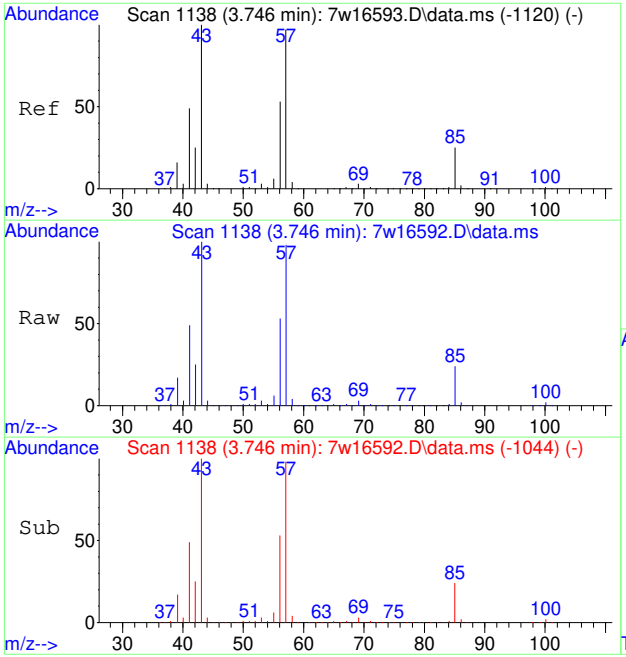


#46
CHLOROFORM
Concen: 37.55 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 920953

Ion	Ratio	Lower	Upper
83	100		
85	81.3	56.0	104.0
47	26.3	19.0	35.4

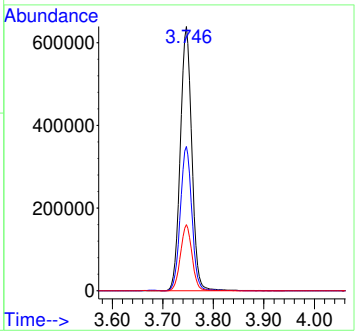


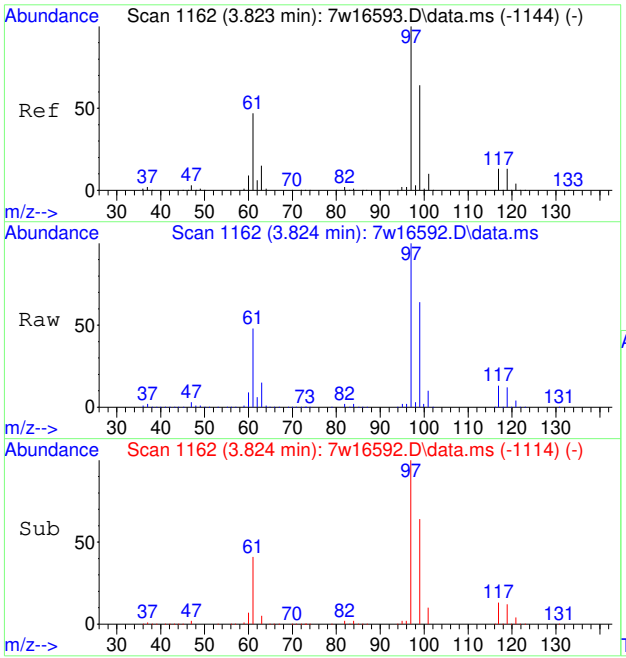


#47
2,4-DIMETHYLPENTANE
Concen: 38.86 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 1014851

Ion	Ratio	Lower	Upper
57	100		
56	54.9	38.4	71.2
85	25.2	17.5	32.5

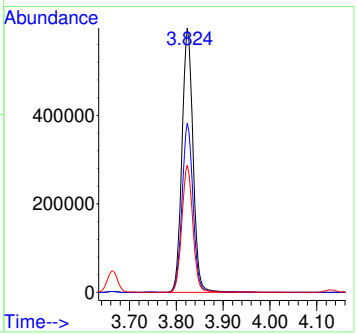


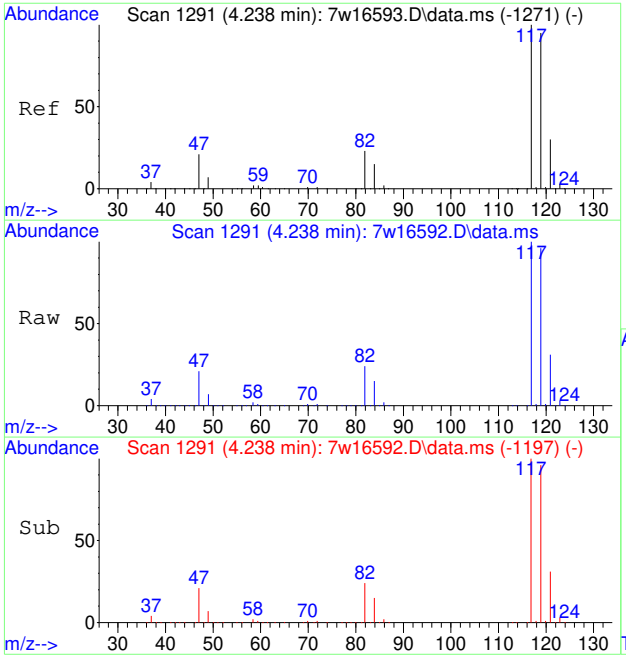


#48
1,1,1-TRICHLOROETHANE
Concen: 38.31 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 97 Resp: 979950

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	48.2	34.7	64.5

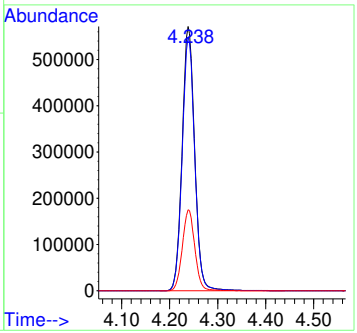


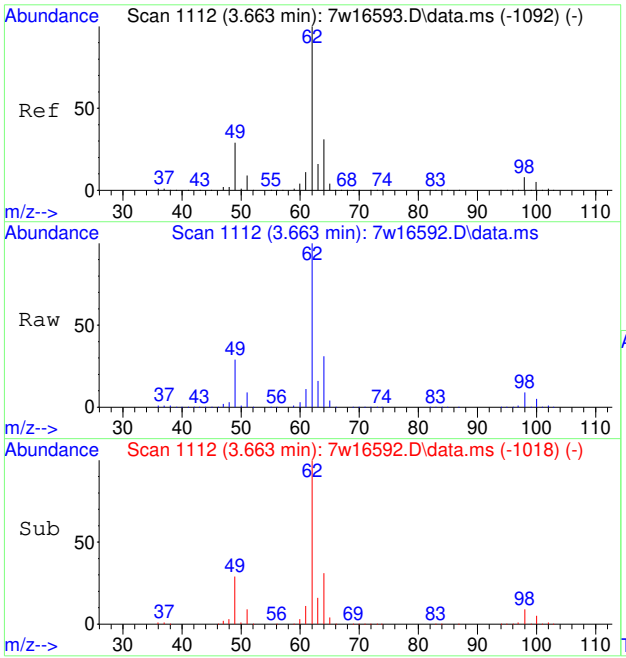


#49
CARBON TETRACHLORIDE
Concen: 39.82 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 1037151

Ion	Ratio	Lower	Upper
117	100		
119	96.3	67.5	125.3
121	30.6	21.3	39.5

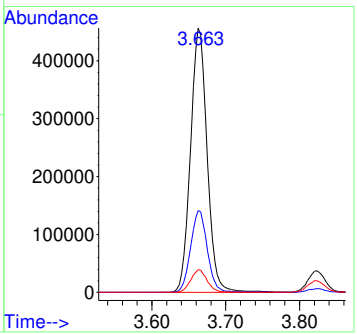


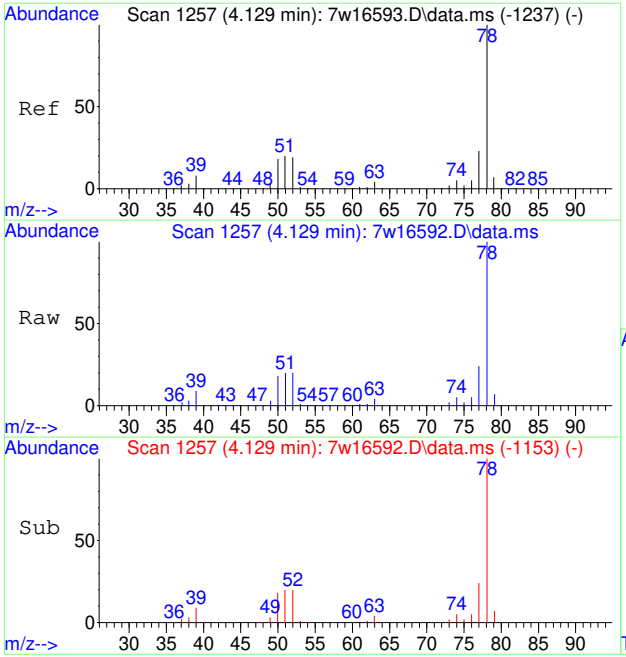


#50
1,2-DICHLOROETHANE
Concen: 37.86 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 713561

Ion	Ratio	Lower	Upper
62	100		
64	31.2	21.8	40.6
98	8.5	5.8	10.8

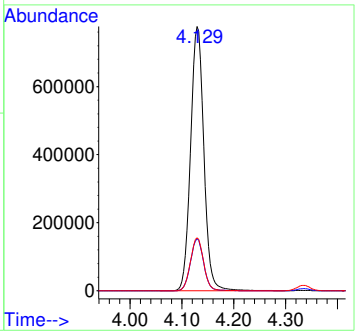


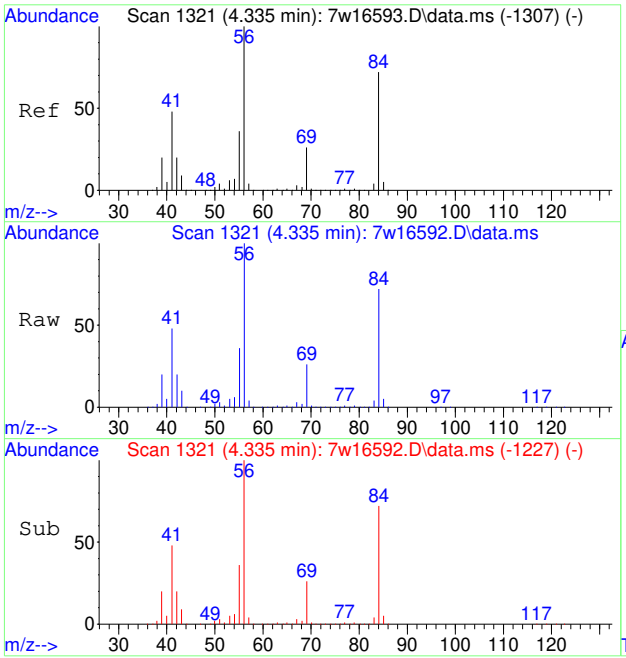


#51
BENZENE
Concen: 36.79 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 78 Resp: 1384237

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	49.9
51	20.0	0.0	50.6

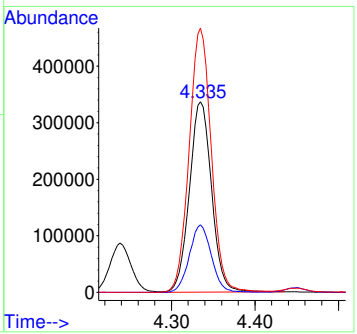


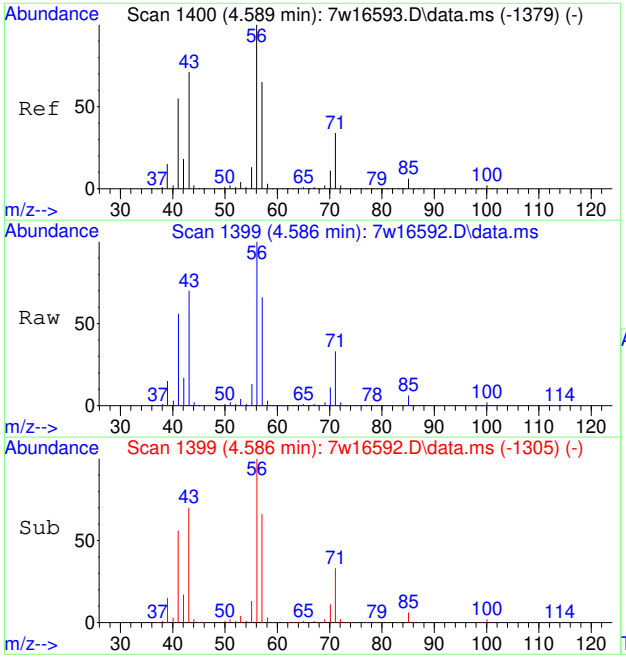


#53
CYCLOHEXANE
Concen: 38.40 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 620038

Ion	Ratio	Lower	Upper
84	100		
69	35.4	24.6	45.6
56	139.1	96.4	179.0

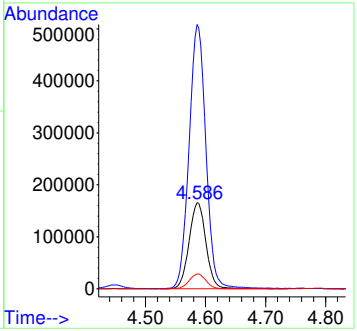


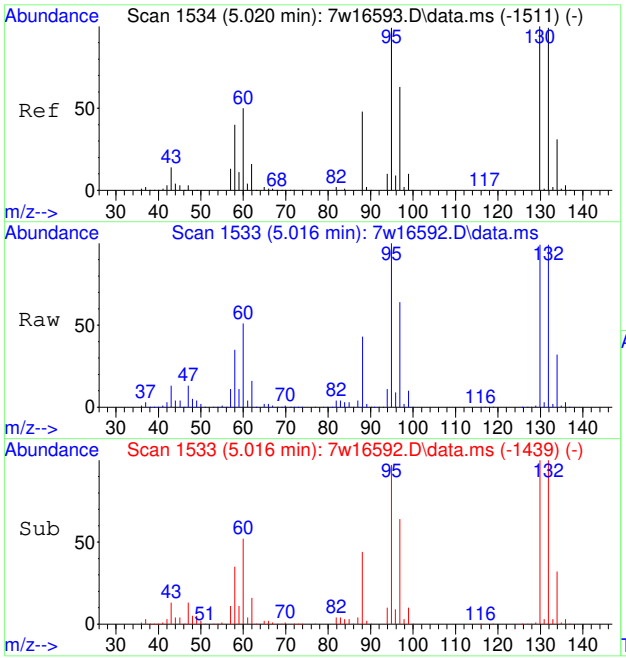


#54
2,3-DIMETHYLPENTANE
Concen: 40.82 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 71 Resp: 325381

Ion	Ratio	Lower	Upper
71	100		
56	304.4	213.2	396.0
85	17.4	12.2	22.6

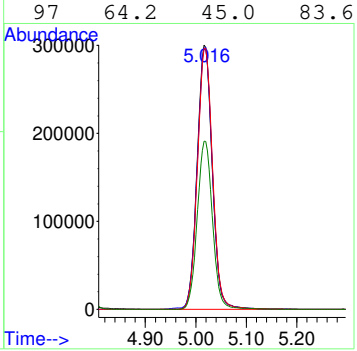


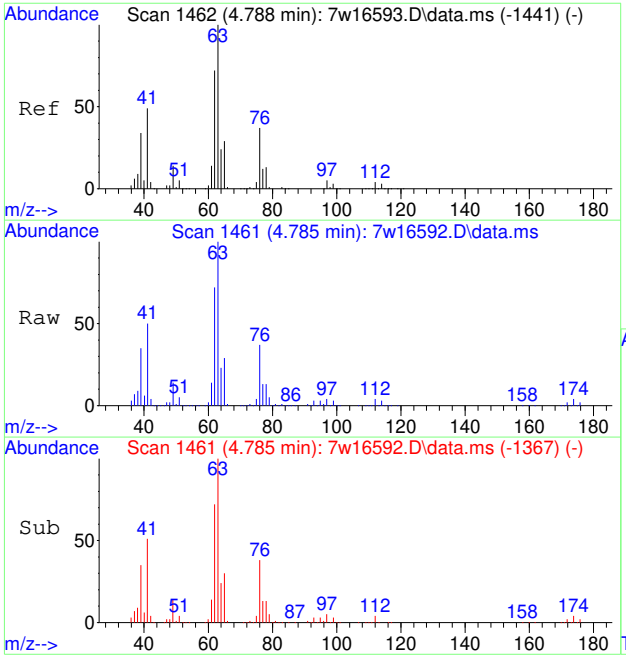


#55
TRICHLOROETHENE
Concen: 36.24 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 95 Resp: 627429

Ion	Ratio	Lower	Upper
95	100		
130	99.8	69.4	129.0
132	99.3	69.4	128.8
97	64.2	45.0	83.6

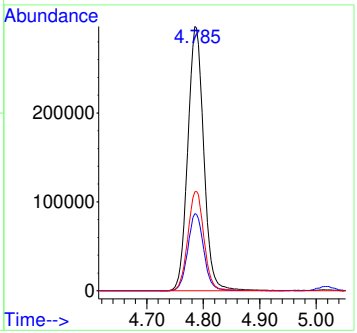


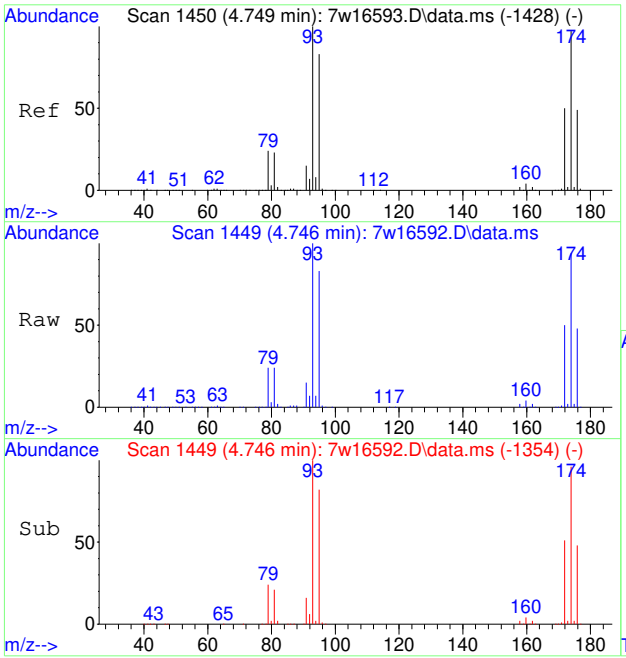


#56
1,2-DICHLOROPROPANE
Concen: 38.36 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 583236

Ion	Ratio	Lower	Upper
63	100		
65	29.4	20.5	38.1
76	38.3	27.1	50.3

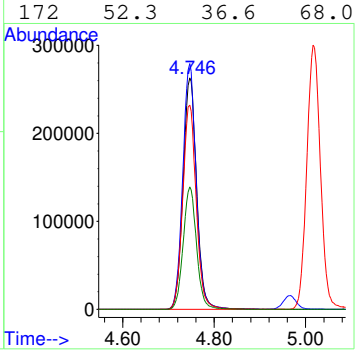


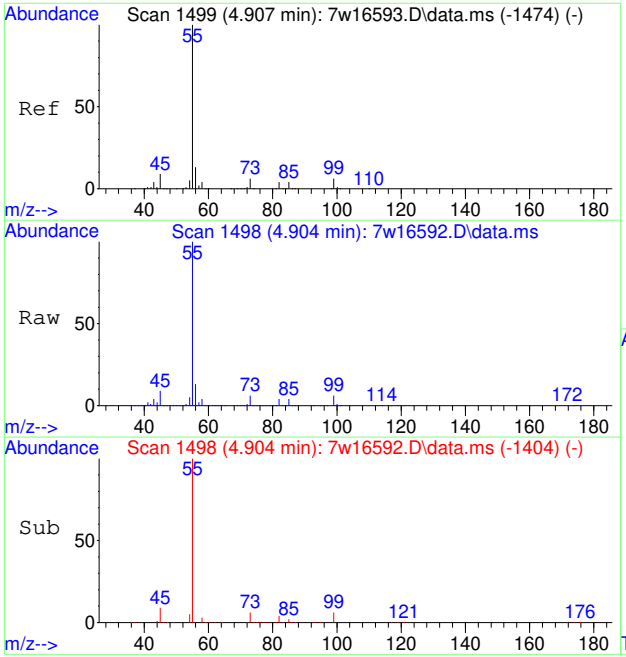


#57
DIBROMOMETHANE
Concen: 36.49 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:174 Resp: 542289

Ion	Ratio	Lower	Upper
174	100		
93	105.2	75.3	139.9
95	88.2	62.4	115.8
172	52.3	36.6	68.0

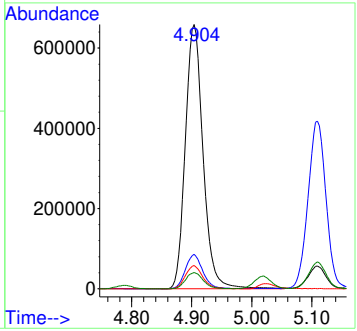


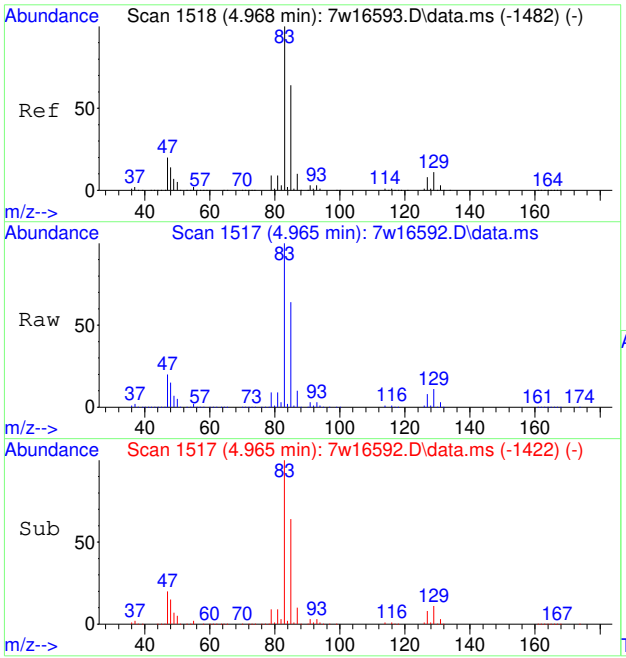


#58
ETHYL ACRYLATE
Concen: 40.04 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1354109

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.6	6.1	11.3
99	6.1	4.3	8.1

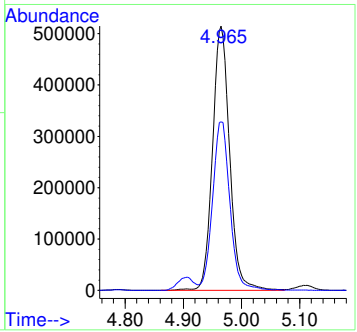


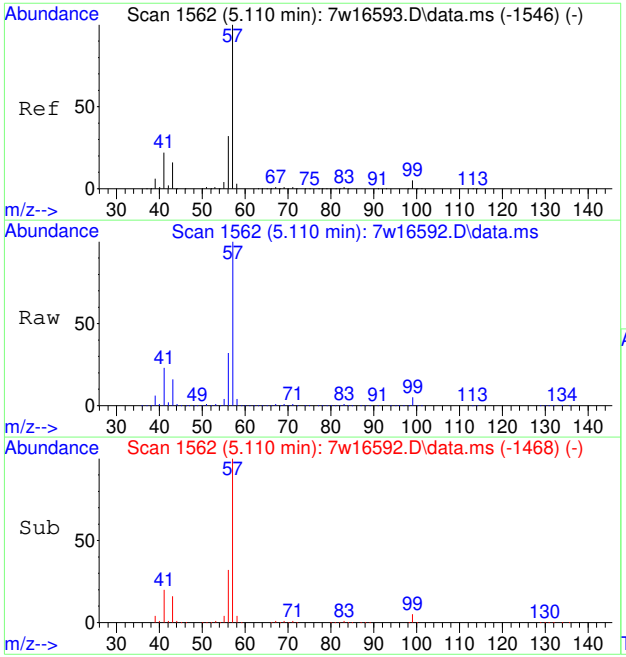


#59
BROMODICHLOROMETHANE
Concen: 38.42 PPBV
RT: 4.965 min Scan# 1517
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1056193

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

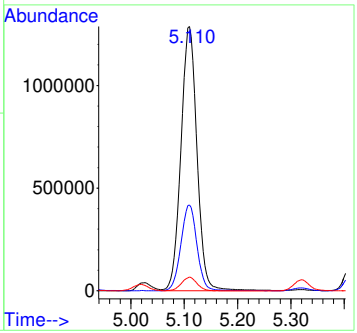


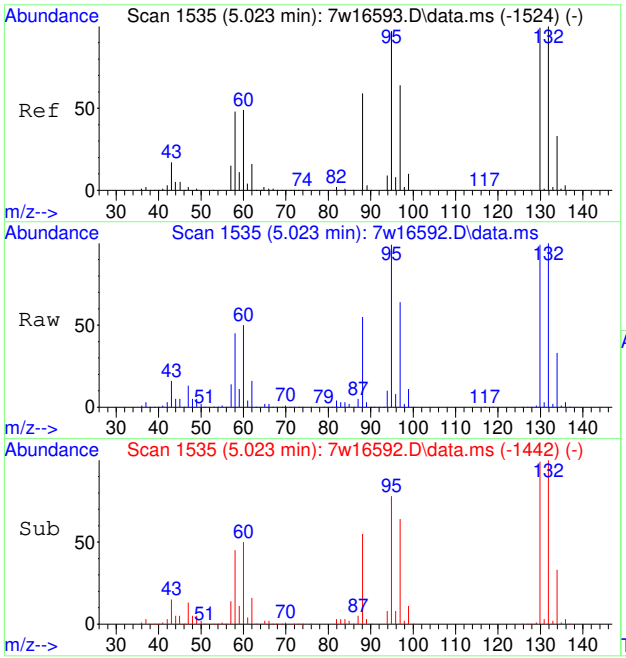


#60
2,2,4-TRIMETHYLPENTANE
Concen: 35.45 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 2697169

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

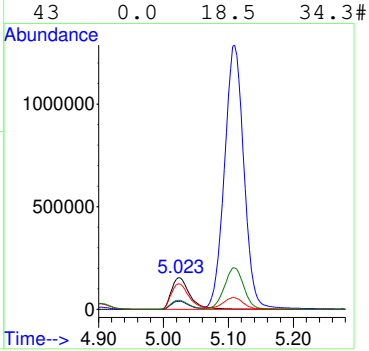


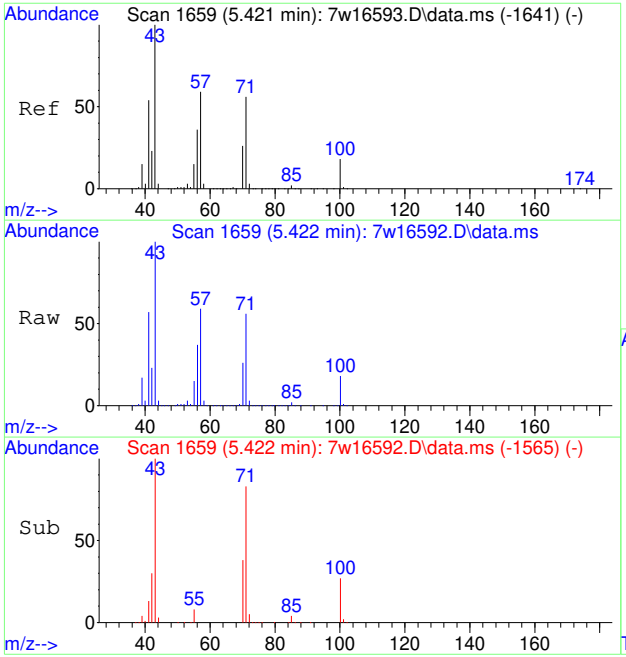


#61
1,4-DIOXANE
Concen: 38.33 PPBV m
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 88 Resp: 307098

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

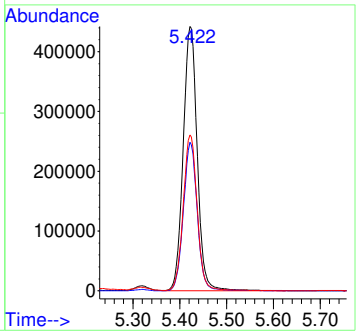


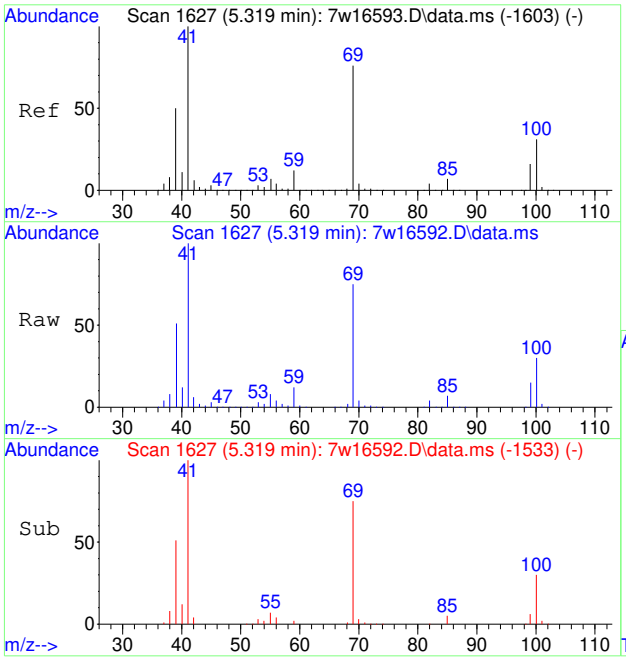


#62
HEPTANE
Concen: 36.76 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 919337

Ion	Ratio	Lower	Upper
43	100		
71	55.6	38.9	72.2
57	59.0	40.5	75.3

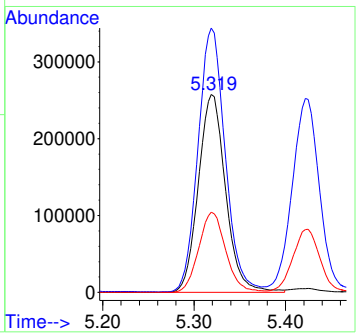


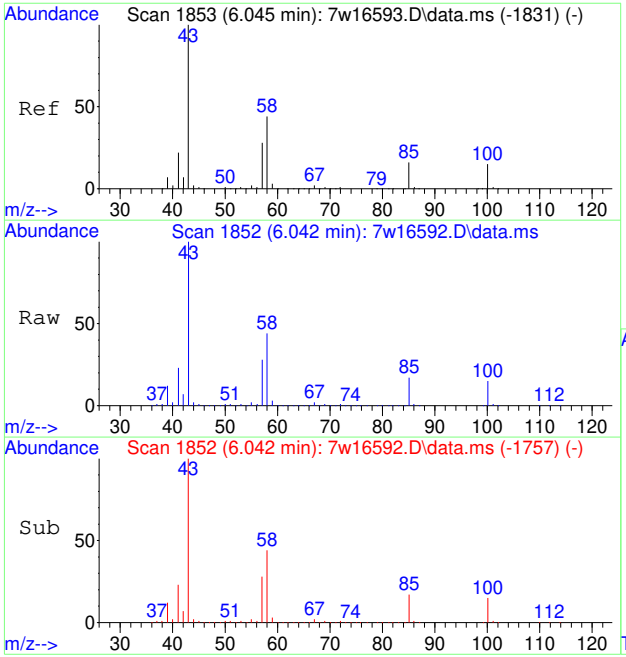


#63
METHYL METHACRYLATE
Concen: 38.93 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 535566

Ion	Ratio	Lower	Upper
69	100		
41	132.0	95.5	177.4
100	40.3	28.1	52.1

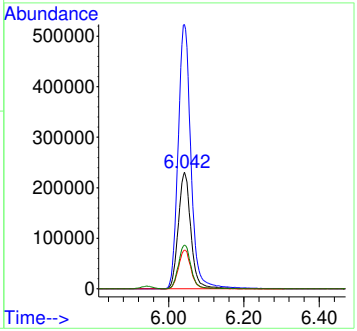


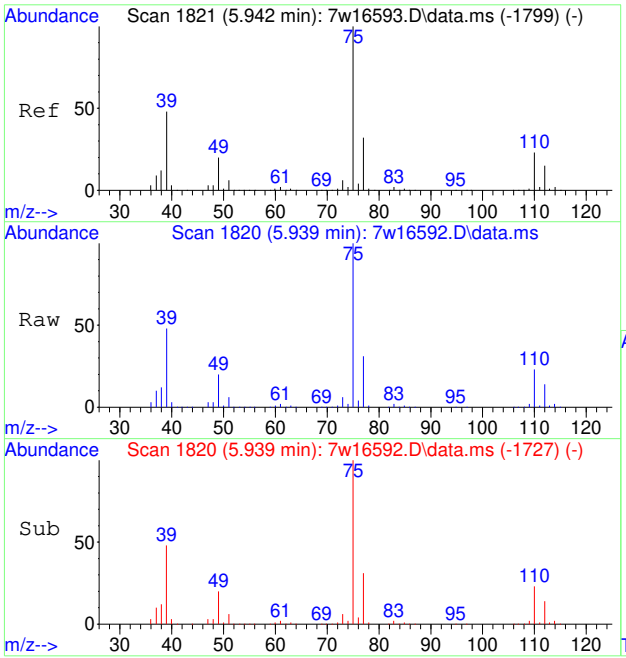


#64
METHYL ISOBUTYL KETONE
Concen: 35.65 PPBV
RT: 6.042 min Scan# 1852
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 535813

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.6	23.2	43.2
85	38.0	26.5	49.3

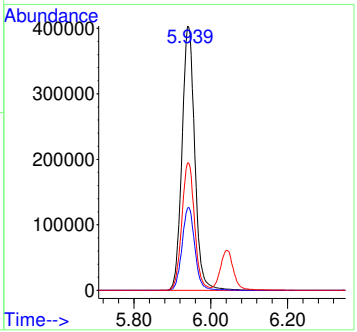


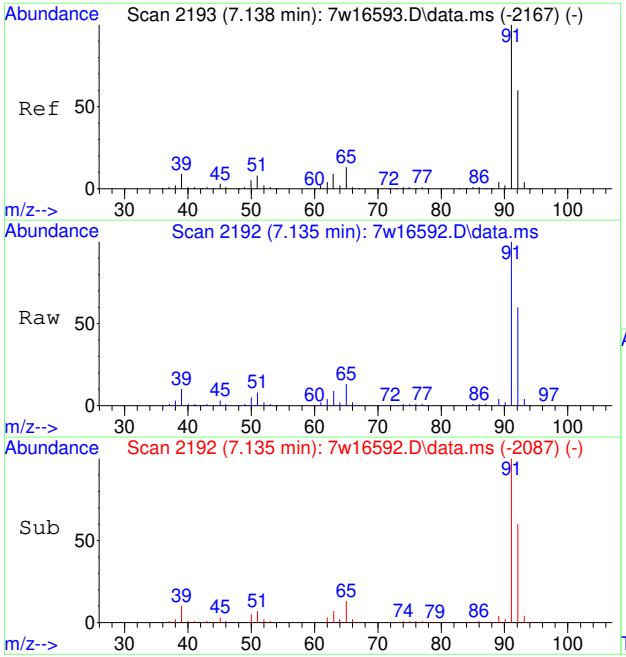


#65
CIS-1,3-DICHLOROPROPENE
Concen: 41.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 931150

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	41.0
39	48.3	35.7	66.3

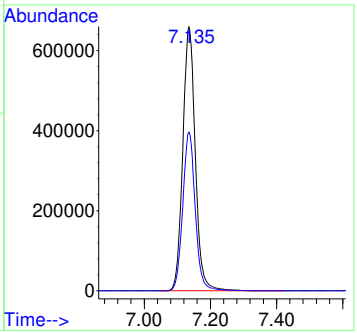


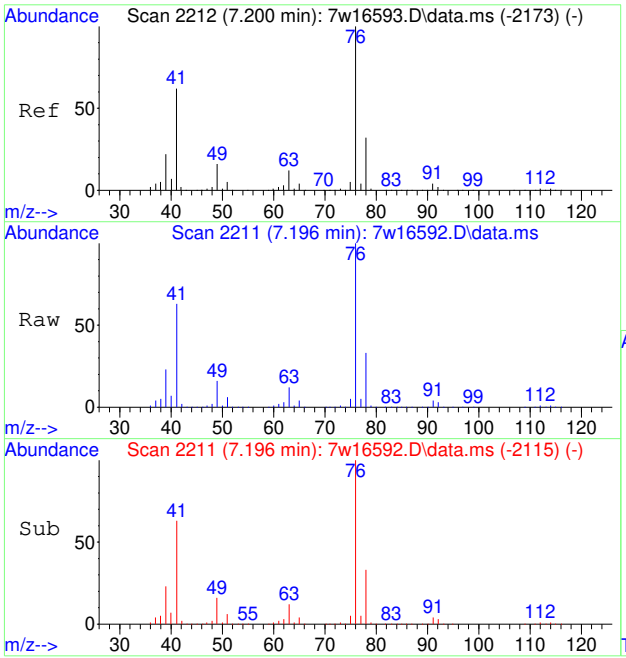


#66
TOLUENE
Concen: 39.79 PPBV
RT: 7.135 min Scan# 2192
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1737506

Ion	Ratio	Lower	Upper
91	100		
92	60.0	30.3	90.3

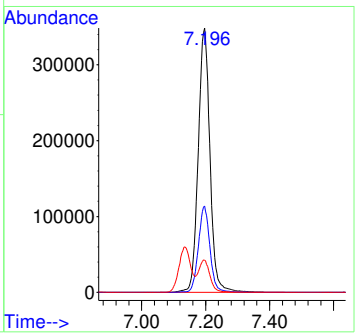


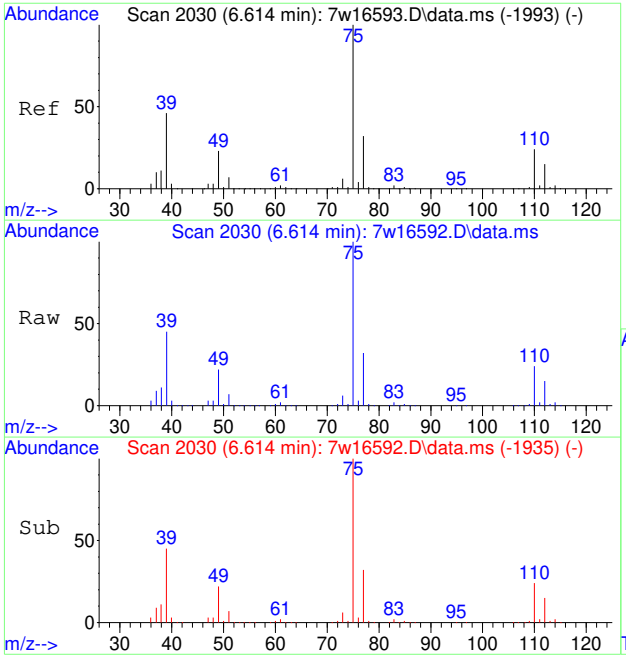


#67
1,3-DICHLOROPROPANE
Concen: 40.85 PPBV
RT: 7.196 min Scan# 2211
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 888887

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.1	8.3	15.5

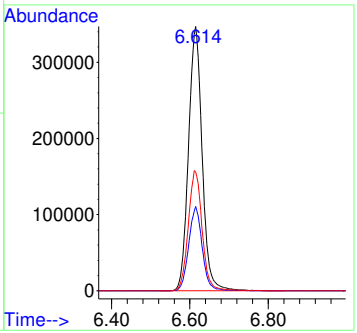


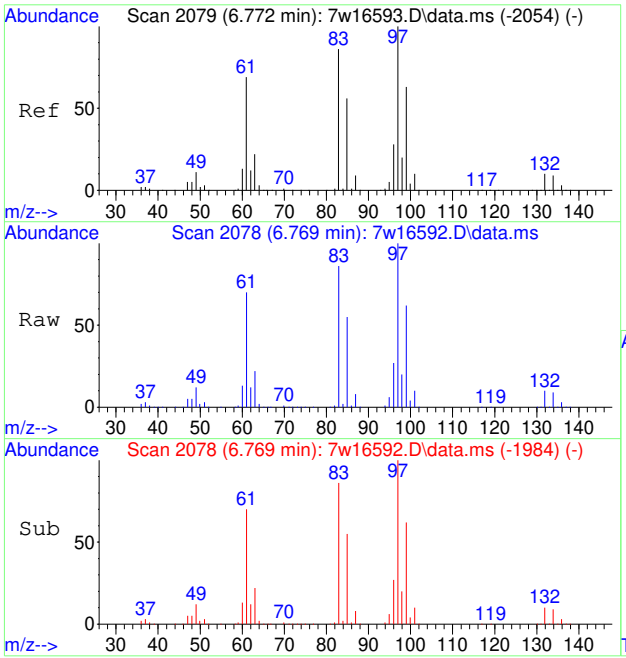


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 41.75 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 837419

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	46.3	33.9	63.0

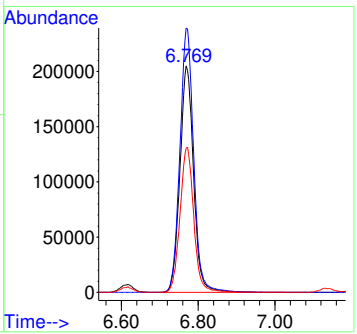


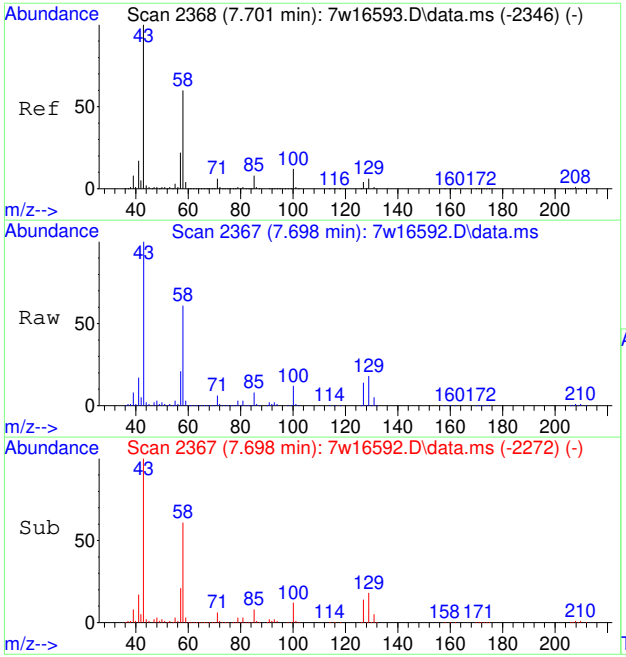


#69
1,1,2-TRICHLOROETHANE
Concen: 41.21 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 506821

Ion	Ratio	Lower	Upper
83	100		
97	117.2	81.2	150.8
85	64.6	45.1	83.7

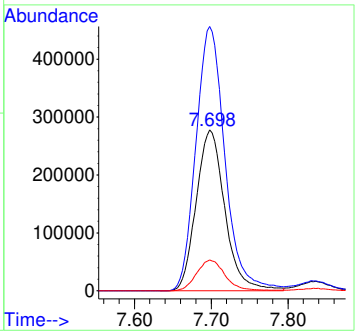


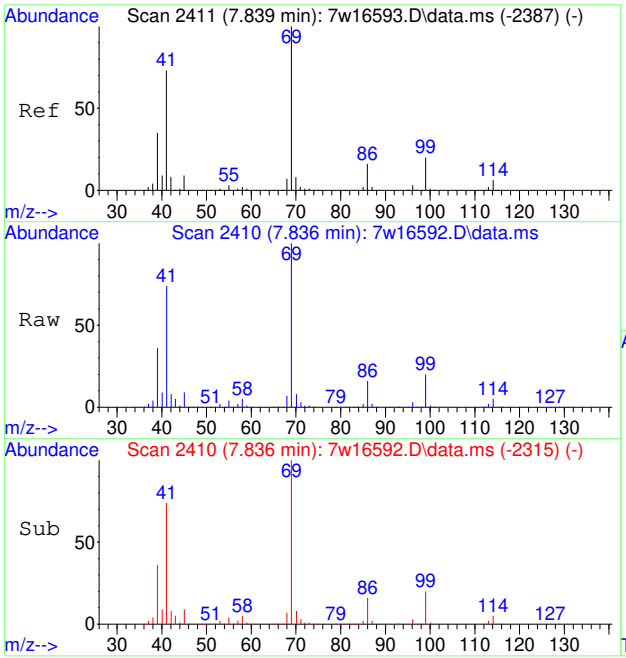


#70
2-HEXANONE
Concen: 33.68 PPBV
RT: 7.698 min Scan# 2367
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 721391

Ion	Ratio	Lower	Upper
58	100		
43	166.0	118.6	220.2
100	19.1	13.0	24.2

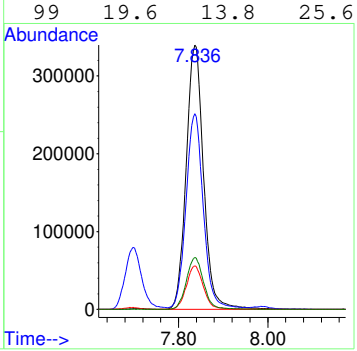


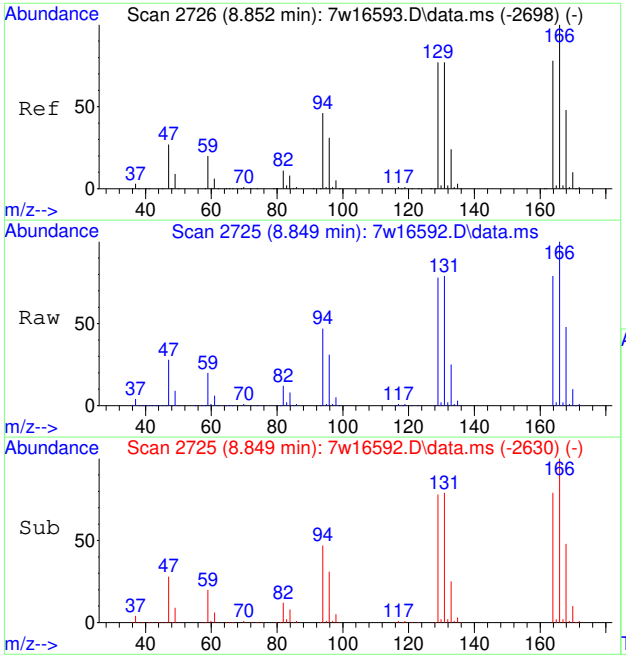


#71
ETHYL METHACRYLATE
Concen: 40.41 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 919855

Ion	Ratio	Lower	Upper
69	100		
41	72.3	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

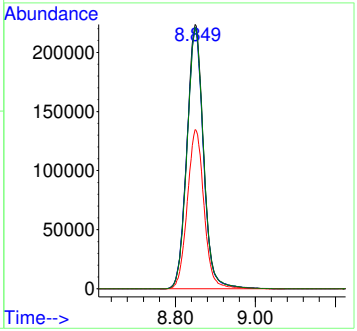


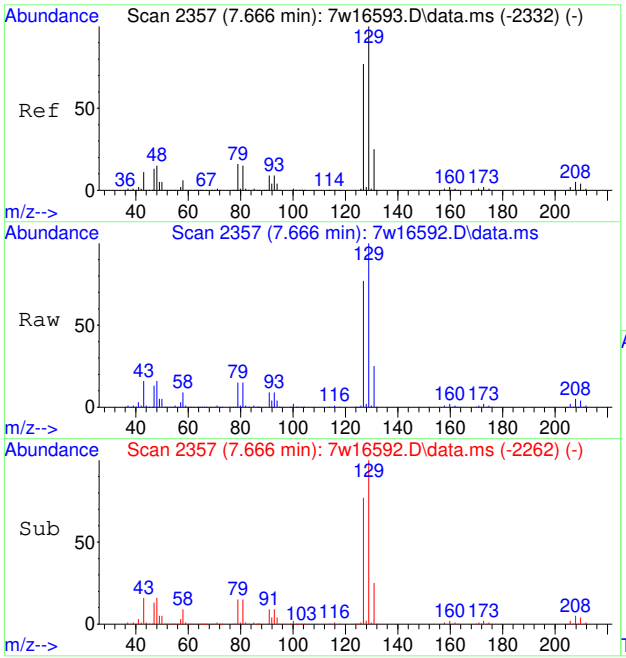


#72
TETRACHLOROETHENE
Concen: 40.75 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:164 Resp: 647021

Ion	Ratio	Lower	Upper
164	100		
129	98.1	69.6	129.2
168	60.5	42.5	78.9
131	98.3	69.4	129.0

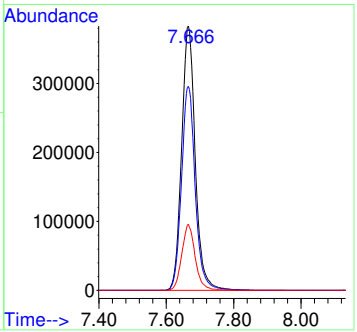


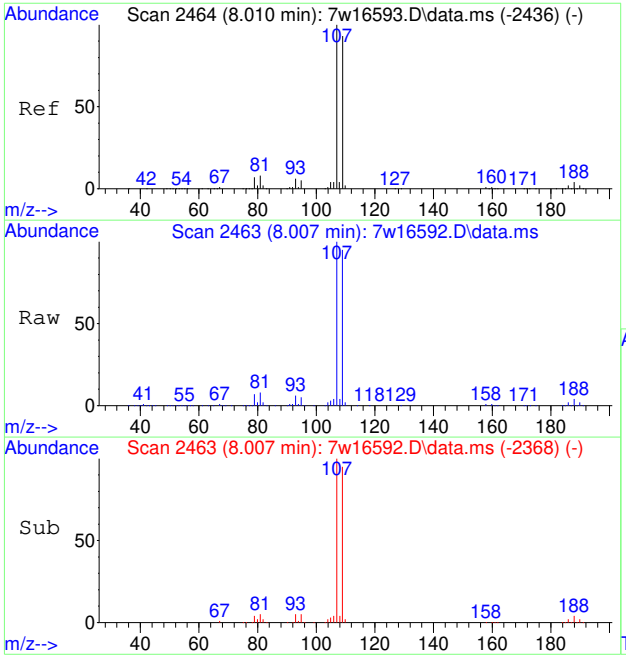


#73
DIBROMOCHLOROMETHANE
Concen: 44.36 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:129 Resp: 1078202

Ion	Ratio	Lower	Upper
129	100		
127	77.9	54.7	101.7
131	24.7	17.4	32.4

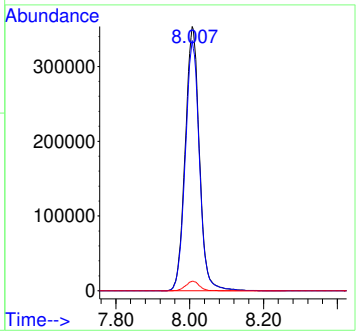


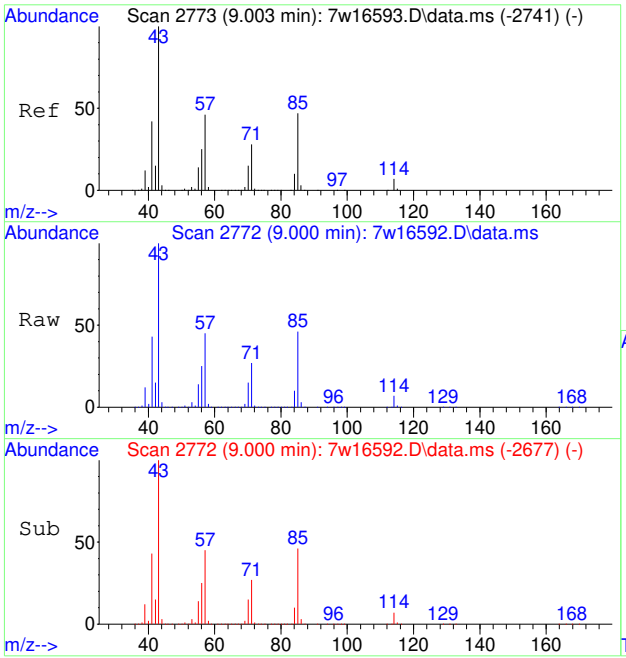


#74
1,2-DIBROMOETHANE
Concen: 41.96 PPBV
RT: 8.007 min Scan# 2463
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:107 Resp: 940297

Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.1	122.8
188	3.6	2.5	4.6

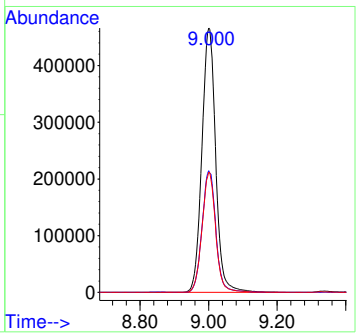


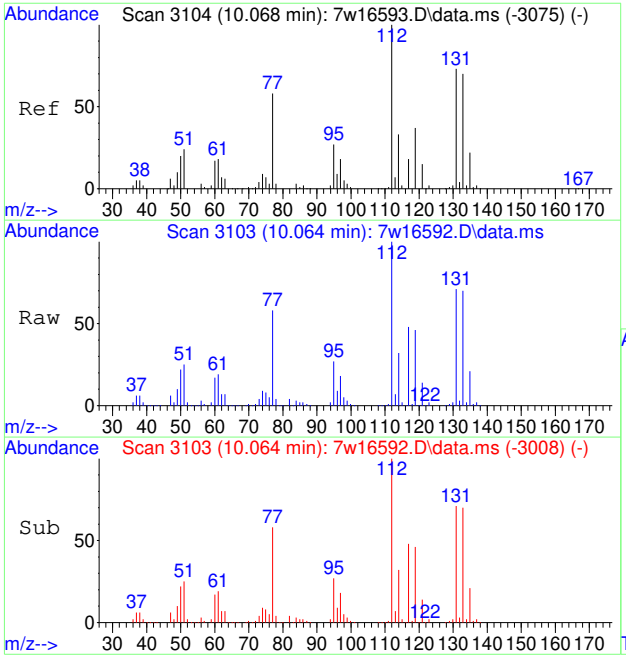


#75
OCTANE
Concen: 39.19 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1299991

Ion	Ratio	Lower	Upper
43	100		
85	46.1	31.8	59.0
57	45.0	31.4	58.2

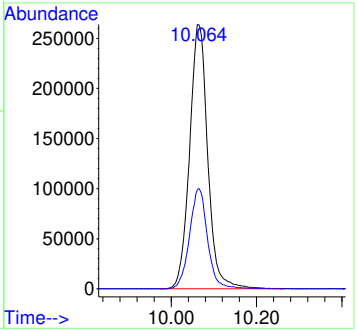


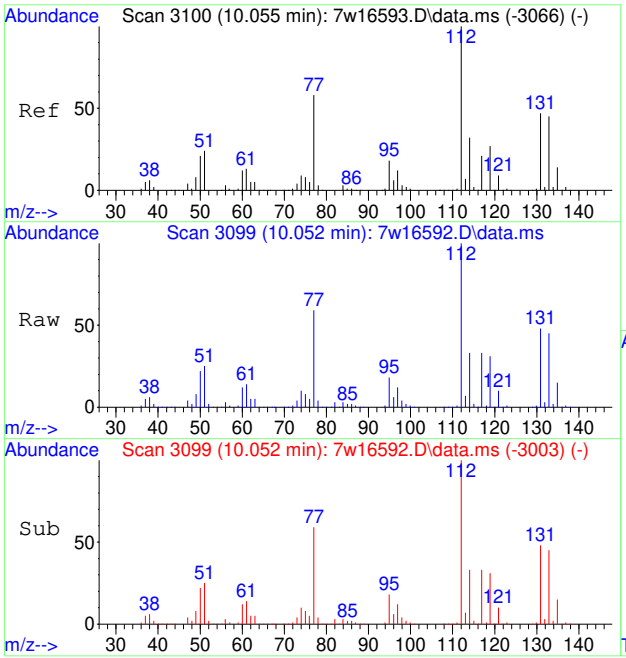


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 43.93 PPBV
RT: 10.064 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:131 Resp: 780177

Ion	Ratio	Lower	Upper
131	100		
95	37.8	26.5	49.1

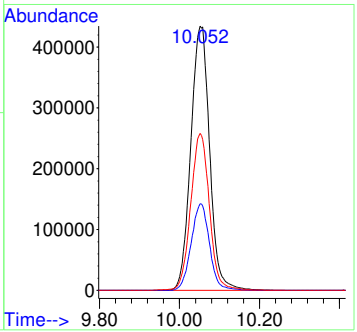


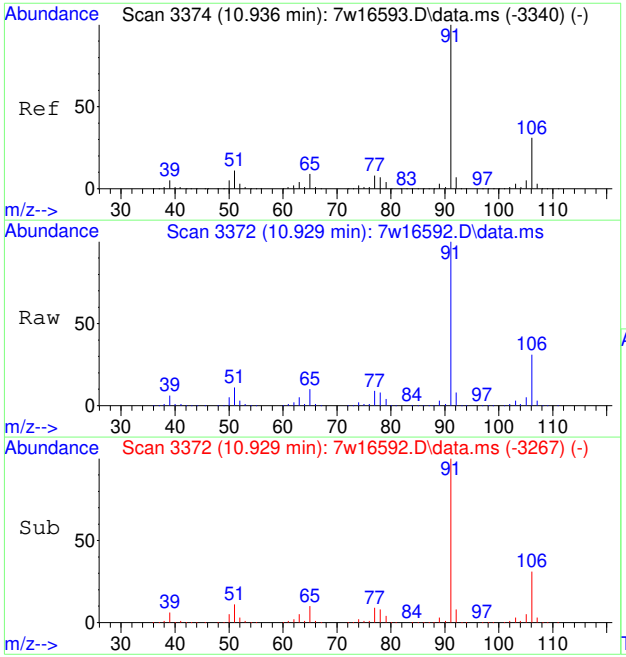


#78
CHLOROBENZENE
Concen: 41.32 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:112 Resp: 1423127

Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	59.0	42.1	78.1

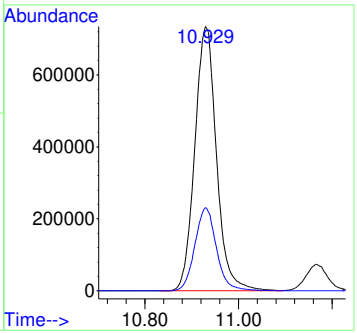


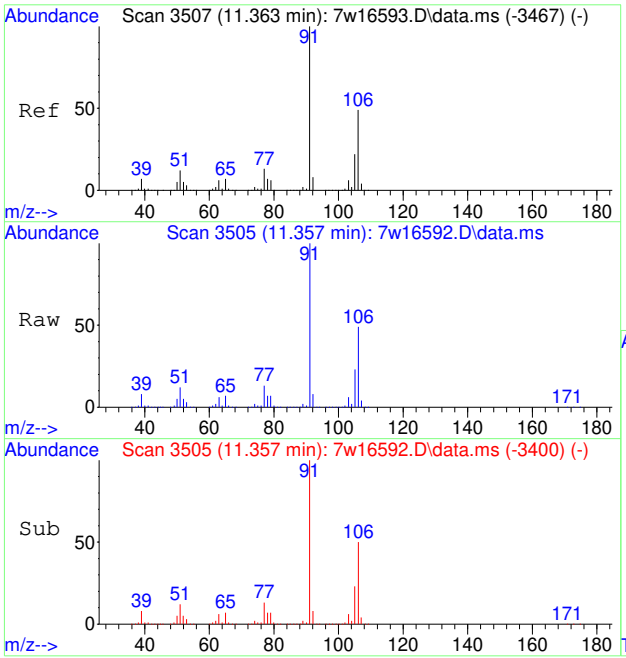


#79
ETHYLBENZENE
Concen: 41.92 PPBV
RT: 10.929 min Scan# 3372
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2363041

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

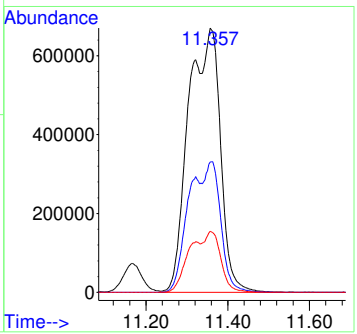


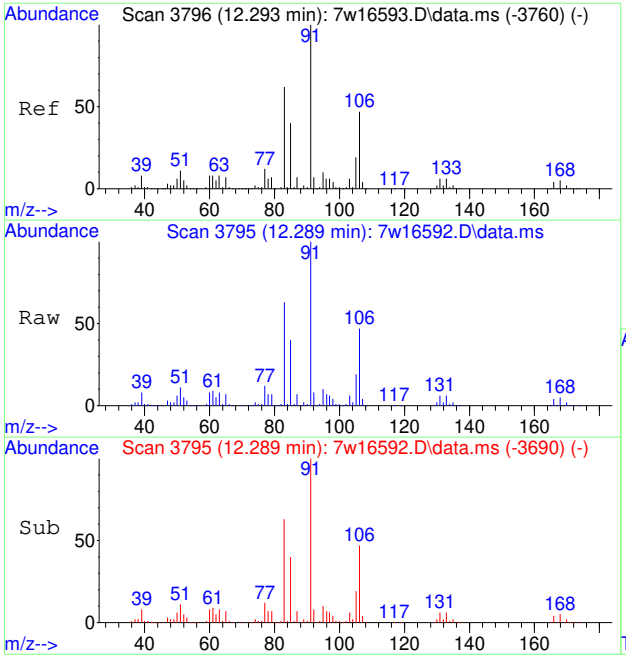


#80
M,P-XYLENE
Concen: 78.82 PPBV
RT: 11.357 min Scan# 3505
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 3630117

Ion	Ratio	Lower	Upper
91	100		
106	25.9	0.0	56.1
105	13.4	0.0	42.1

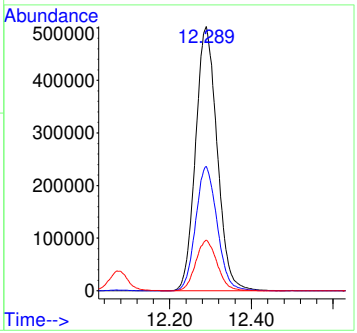


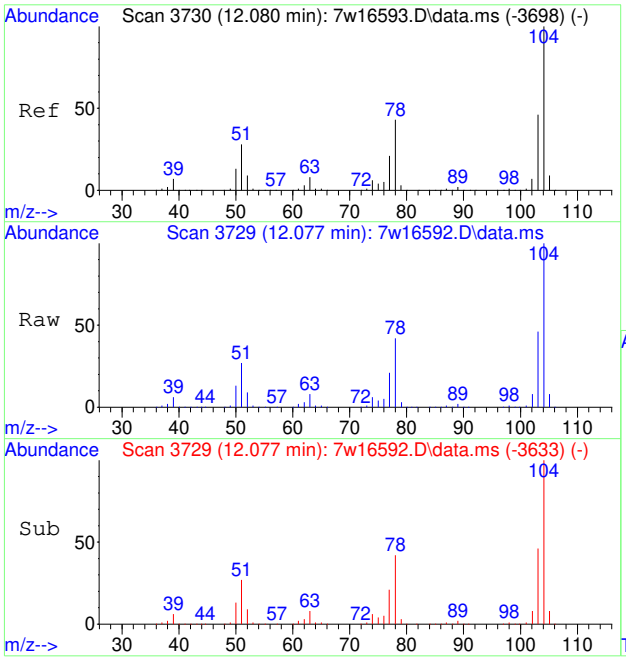


#81
O-XYLENE
Concen: 41.40 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1842699

Ion	Ratio	Lower	Upper
91	100		
106	47.1	31.8	59.0
105	19.2	13.0	24.2

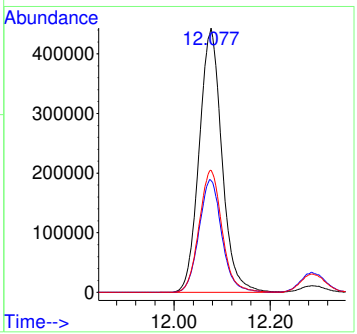


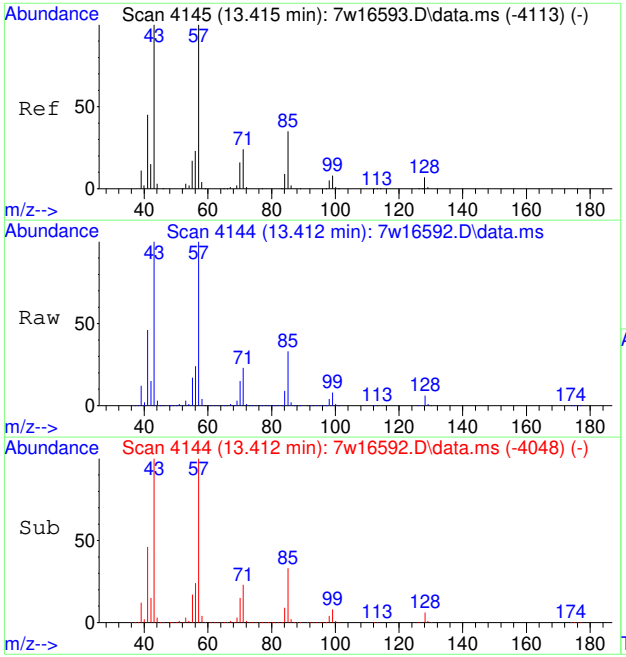


#82
STYRENE
Concen: 44.73 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:104 Resp: 1452853

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.8	32.8	61.0

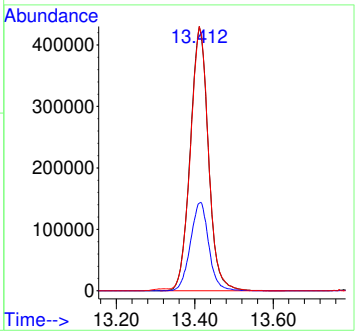


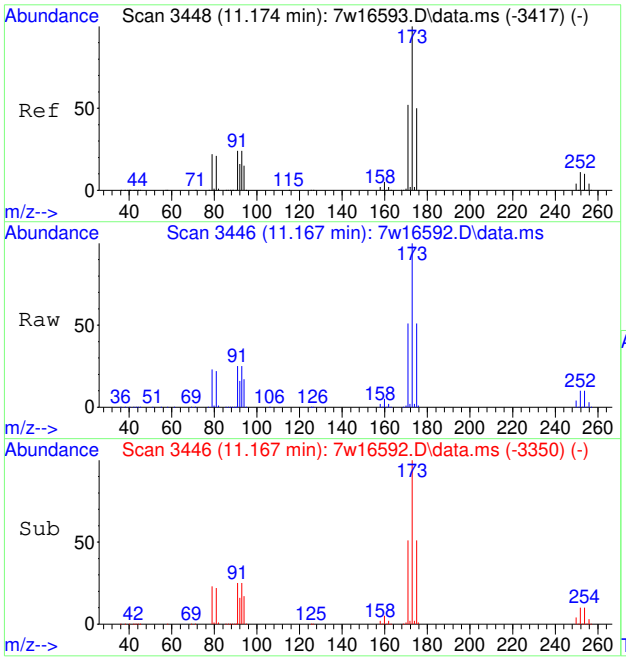


#83
NONANE
Concen: 39.45 PPBV
RT: 13.412 min Scan# 4144
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1380586

Ion	Ratio	Lower	Upper
43	100		
85	33.8	23.4	43.4
57	100.5	69.2	128.6

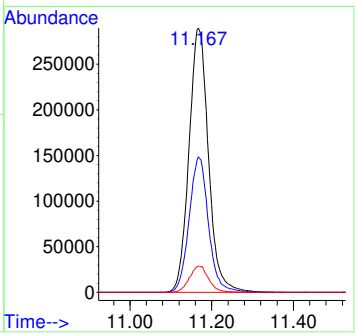


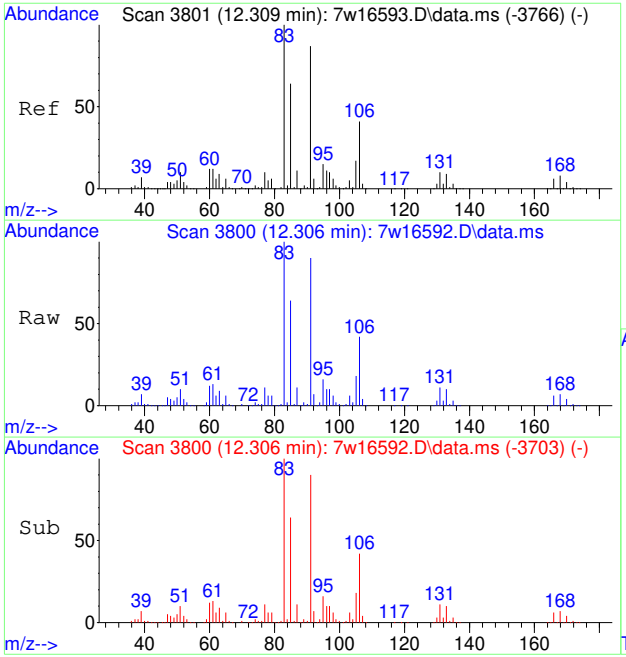


#84
BROMOFORM
Concen: 47.95 PPBV
RT: 11.167 min Scan# 3446
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:173 Resp: 961757

Ion	Ratio	Lower	Upper
173	100		
175	50.8	35.1	65.1
254	9.9	6.7	12.5

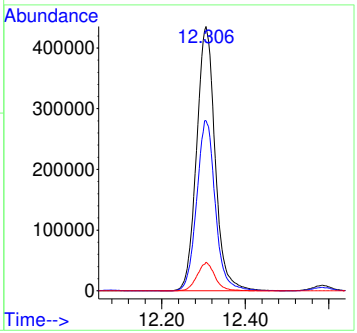


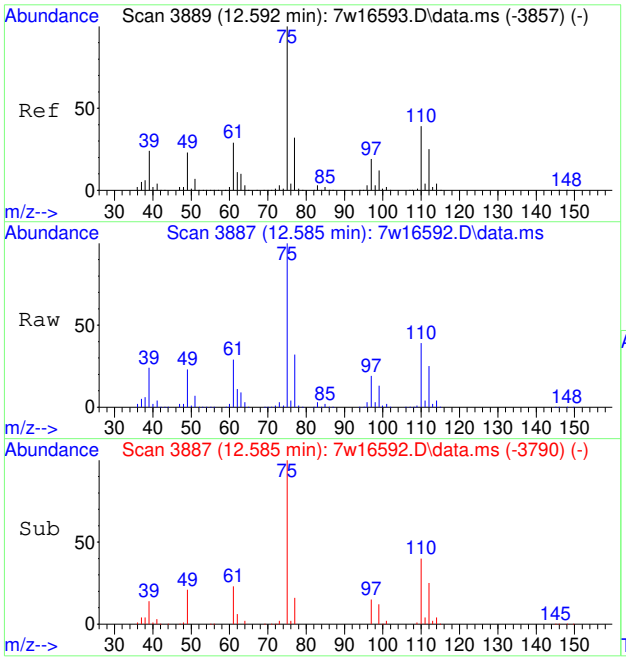


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 42.27 PPBV
RT: 12.306 min Scan# 3800
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1339122

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.4	7.3	13.5

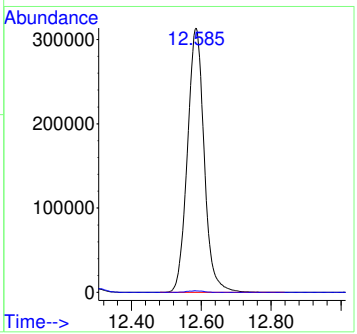


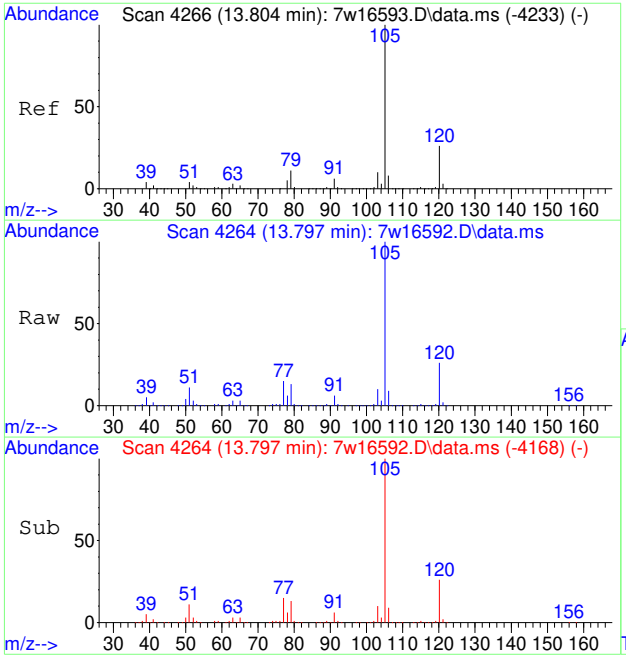


#86
1,2,3-TRICHLOROPROPANE
Concen: 42.19 PPBV
RT: 12.585 min Scan# 3887
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 1047163

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

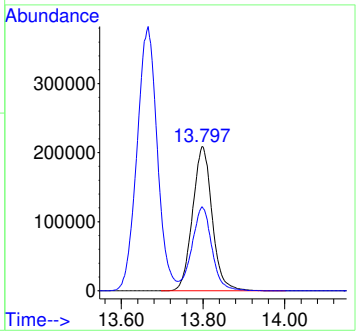


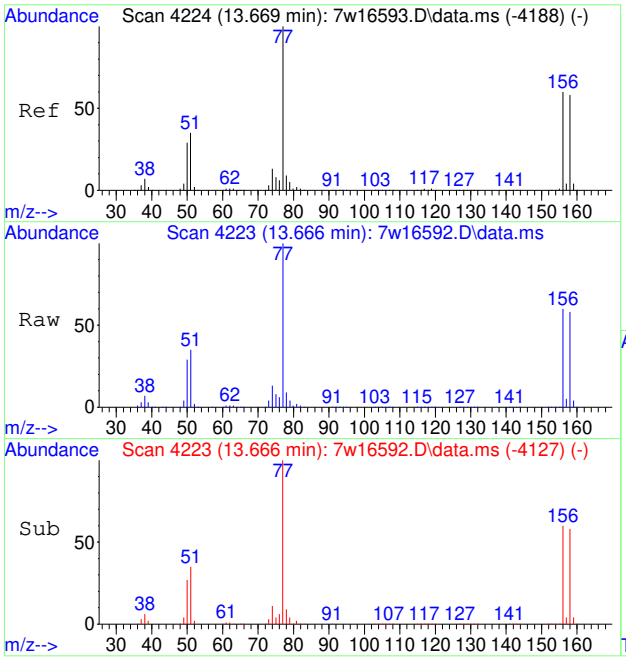


#88
ISOPROPYLBENZENE
Concen: 41.27 PPBV
RT: 13.797 min Scan# 4264
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 695388

Ion	Ratio	Lower	Upper
120	100		
77	59.7	42.5	78.9

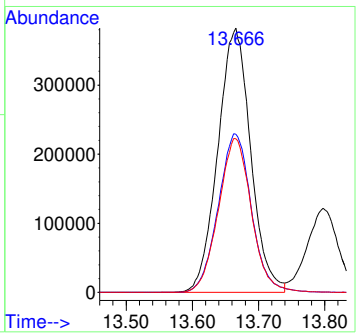


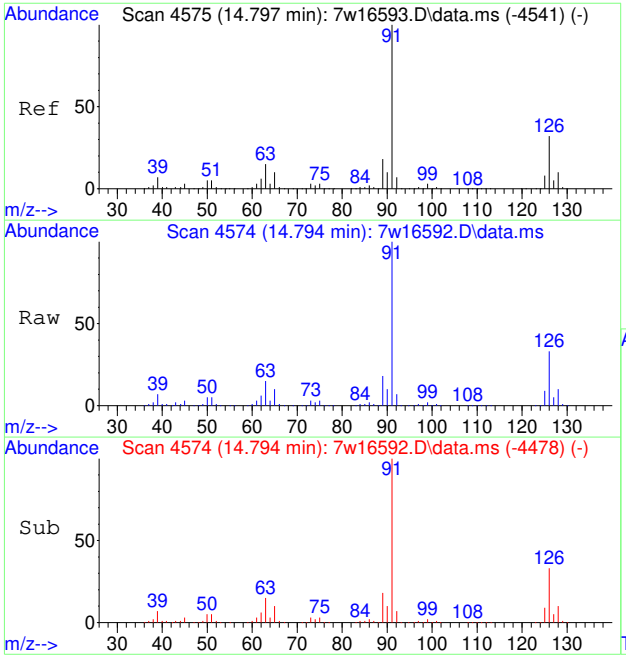


#89
BROMOBENZENE
Concen: 40.55 PPBV
RT: 13.666 min Scan# 4223
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 77 Resp: 1318537

Ion	Ratio	Lower	Upper
77	100		
156	60.7	42.4	78.8
158	58.7	40.9	76.0

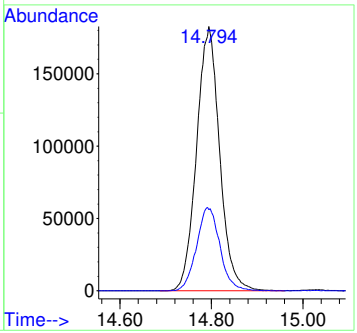


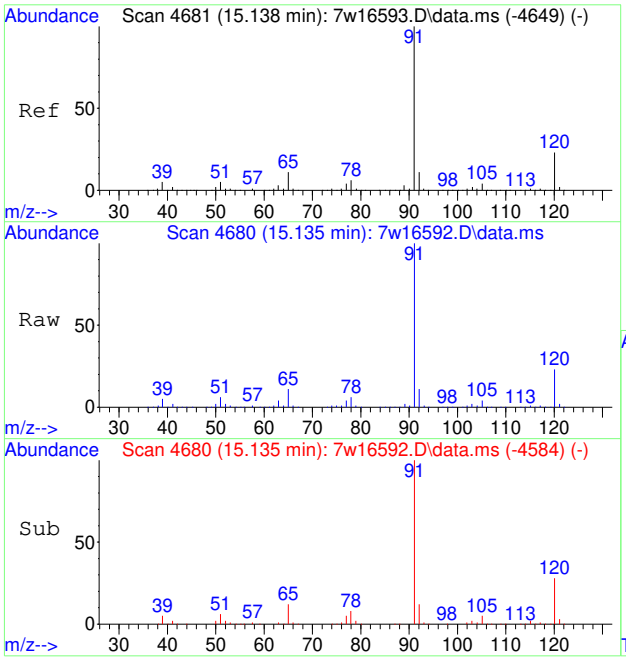


#90
2-CHLOROTOLUENE
Concen: 41.17 PPBV
RT: 14.794 min Scan# 4574
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:126 Resp: 639043

Ion	Ratio	Lower	Upper
126	100		
128	32.0	22.5	41.7

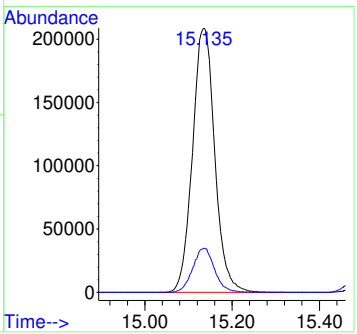


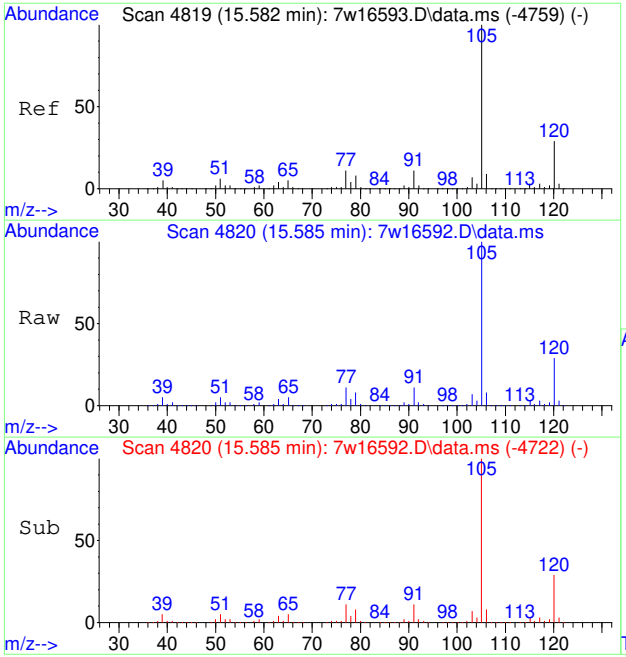


#91
N-PROPYLBENZENE
Concen: 42.04 PPBV
RT: 15.135 min Scan# 4680
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 740280

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

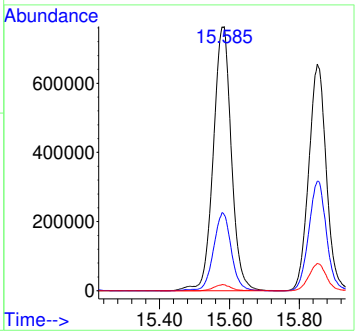


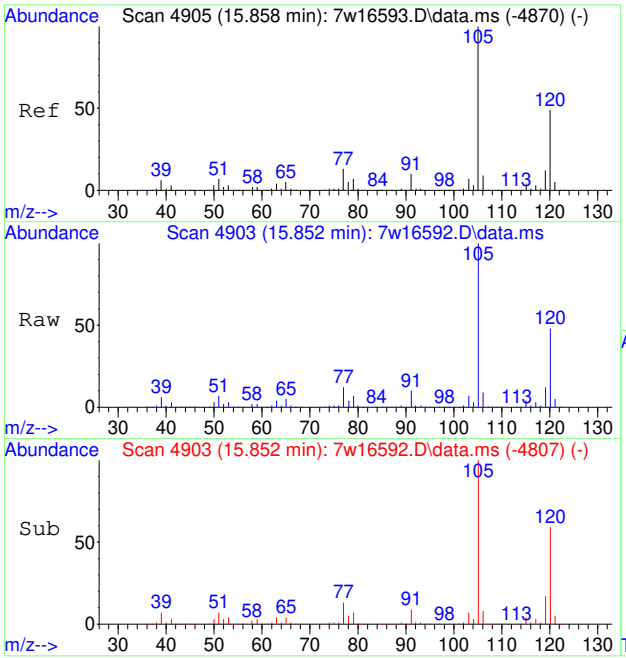


#92
4-ETHYLTOLUENE
Concen: 42.04 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2747294

Ion	Ratio	Lower	Upper
105	100		
120	29.2	20.7	38.5
119	2.2	1.6	3.0

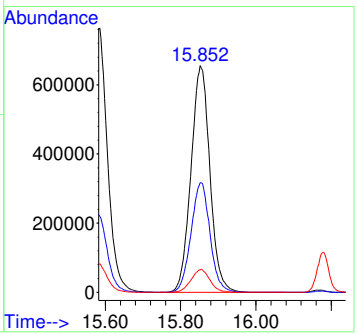


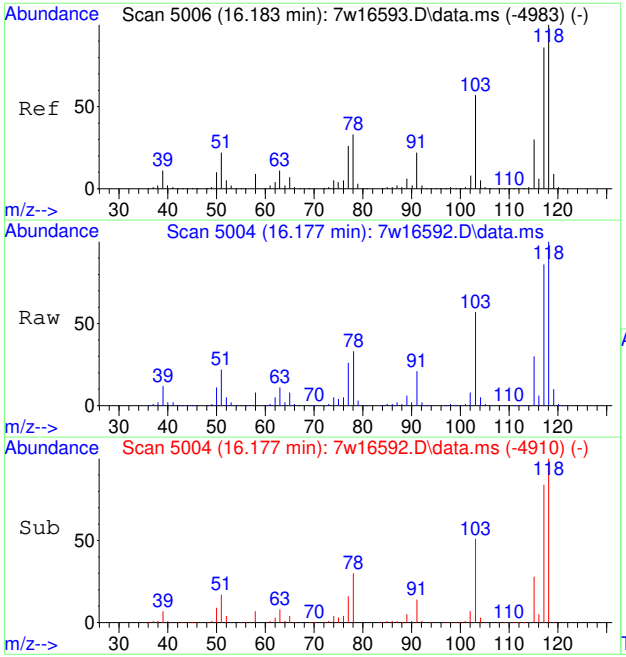


#93
1,3,5-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 15.852 min Scan# 4903
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2286498

Ion	Ratio	Lower	Upper
105	100		
120	48.6	34.0	63.2
91	10.1	7.3	13.7

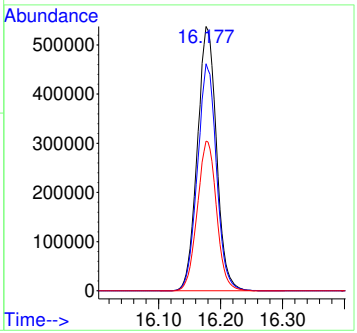


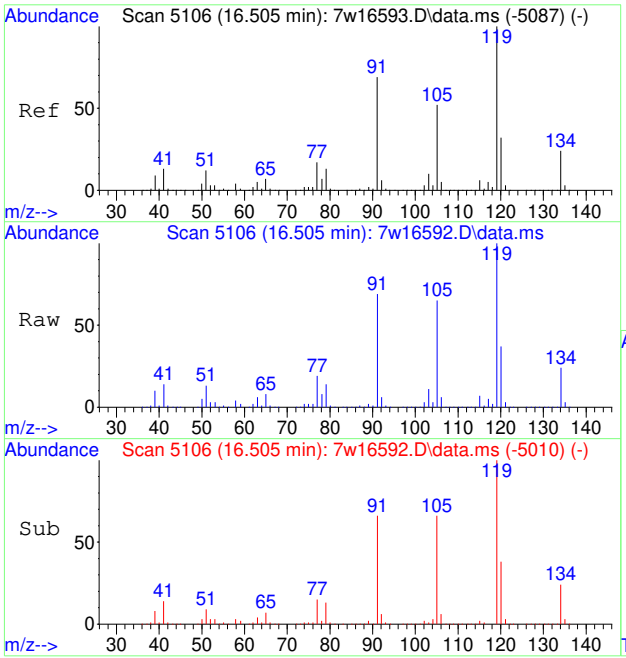


#94
ALPHA-METHYLSTYRENE
Concen: 43.69 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:118 Resp: 1155488

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.6	110.8
103	56.9	40.3	74.9

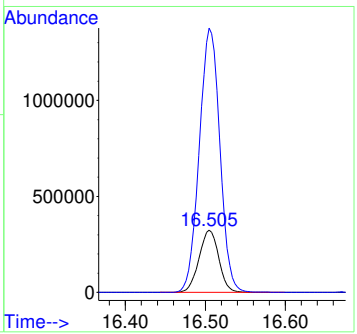


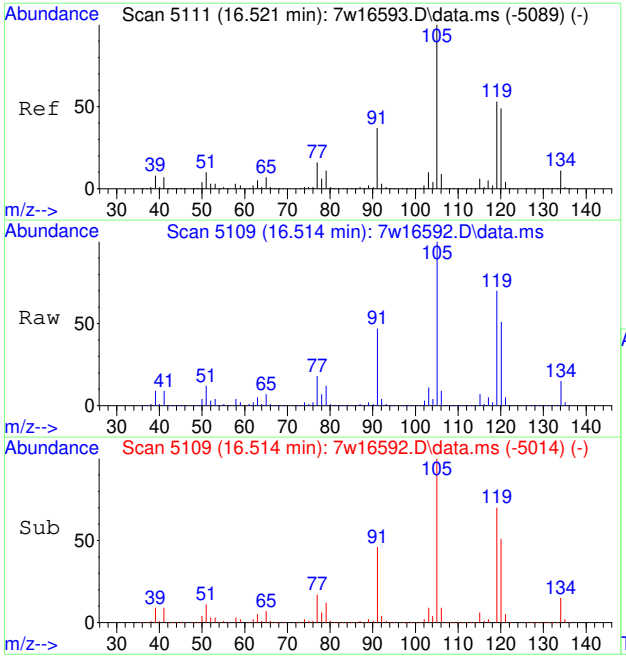


#95
TERT-BUTYLBENZENE
Concen: 41.12 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 554595

Ion	Ratio	Lower	Upper
134	100		
119	444.1	311.3	578.1

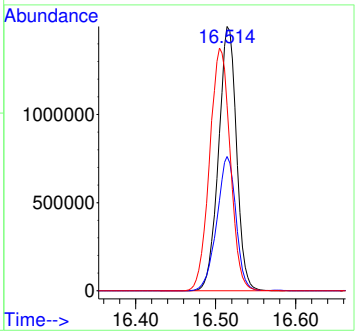


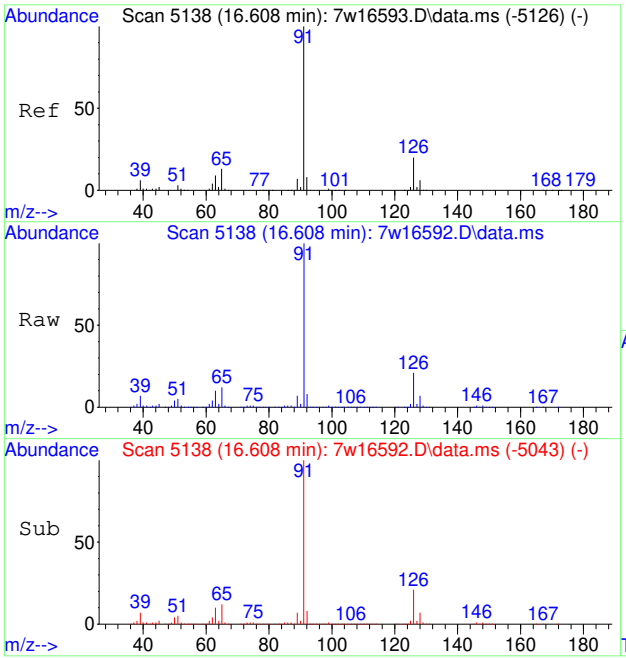


#96
1,2,4-TRIMETHYLBENZENE
Concen: 43.35 PPBV
RT: 16.514 min Scan# 5109
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2336862

Ion	Ratio	Lower	Upper
105	100		
120	54.3	37.9	70.5
119	105.4	74.3	137.9

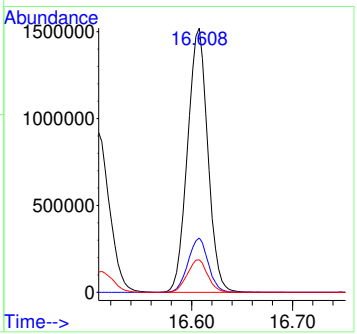


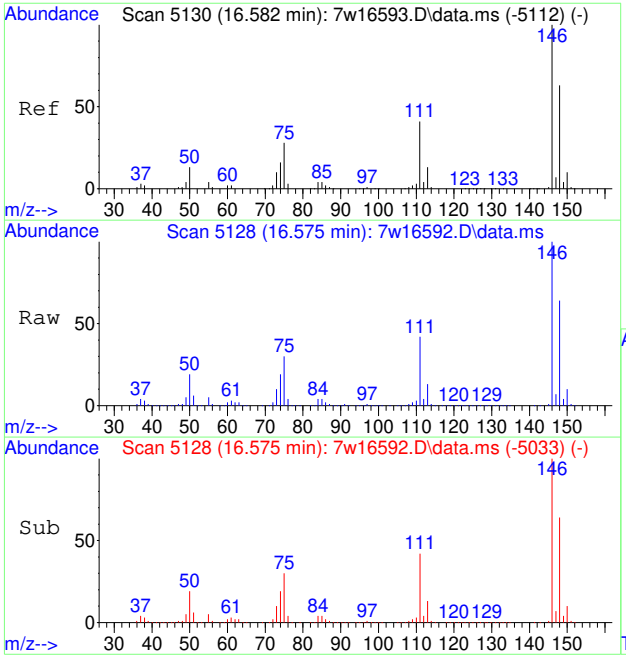


#97
BENZYL CHLORIDE
Concen: 52.85 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2115310

Ion	Ratio	Lower	Upper
91	100		
126	20.5	14.3	26.5
65	12.5	9.2	17.0

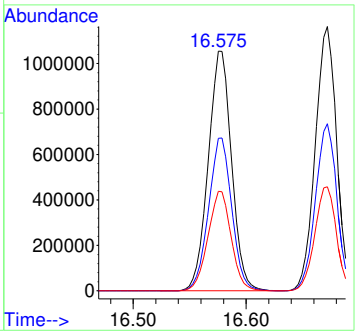


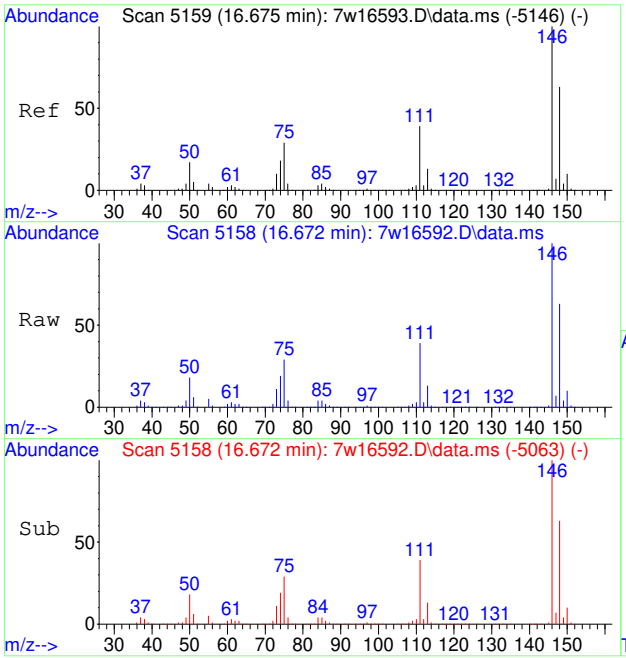


#98
M-DICHLOROBENZENE
Concen: 40.35 PPBV
RT: 16.575 min Scan# 5128
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1509487

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	41.3	29.3	54.3

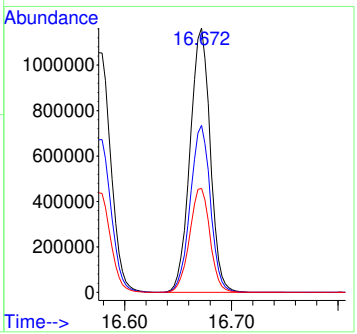


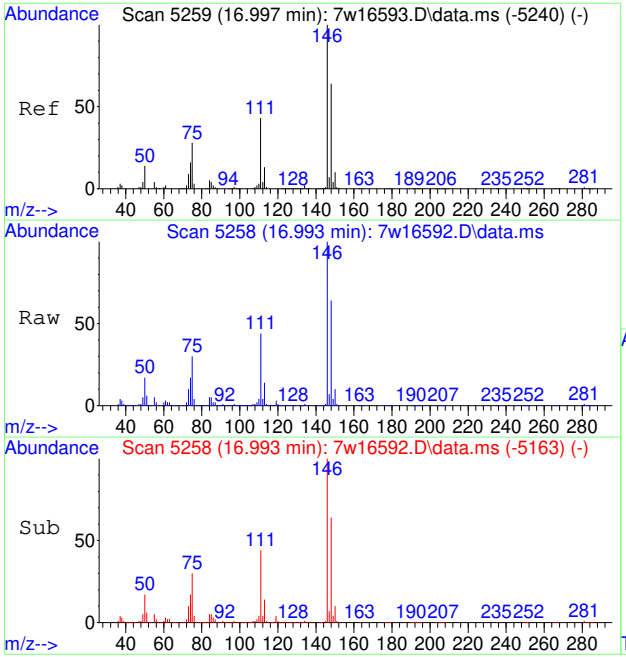


#99
P-DICHLOROBENZENE
Concen: 41.45 PPBV
RT: 16.672 min Scan# 5158
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1527061

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.2	82.2
111	39.9	28.0	52.0

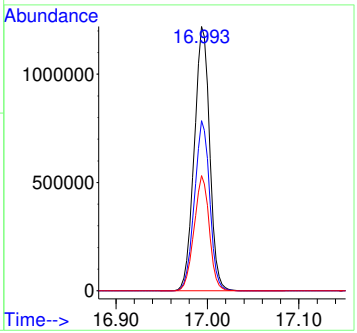


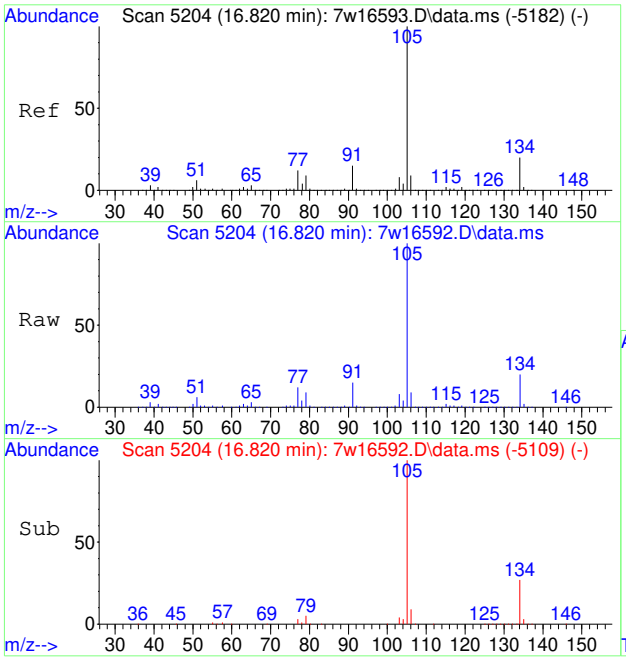


#100
O-DICHLOROBENZENE
Concen: 41.29 PPBV
RT: 16.993 min Scan# 5258
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1428015

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.2	82.2
111	42.9	30.4	56.4

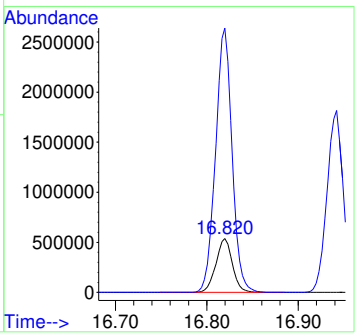


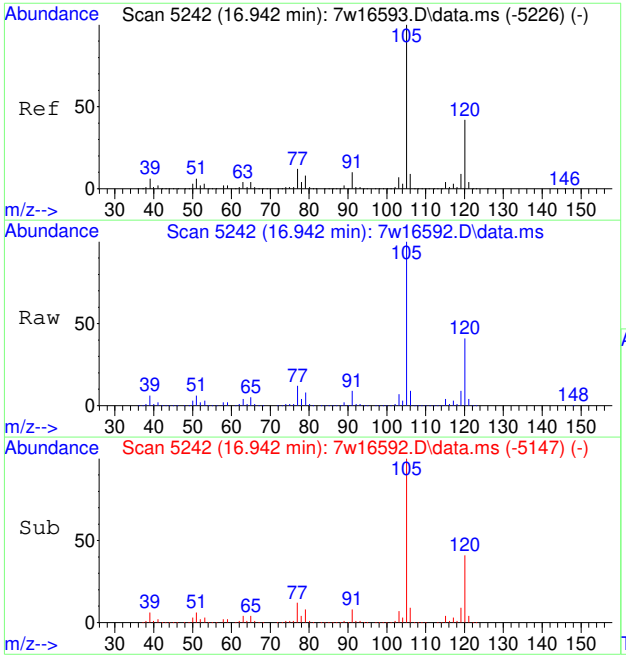


#101
SEC-BUTYLBENZENE
Concen: 42.40 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 675130

Ion	Ratio	Lower	Upper
134	100		
105	492.7	344.8	640.3

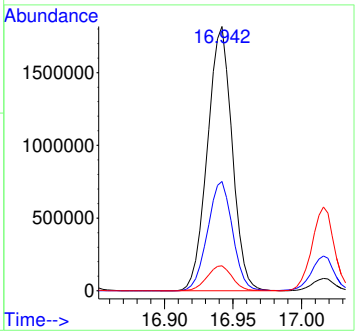


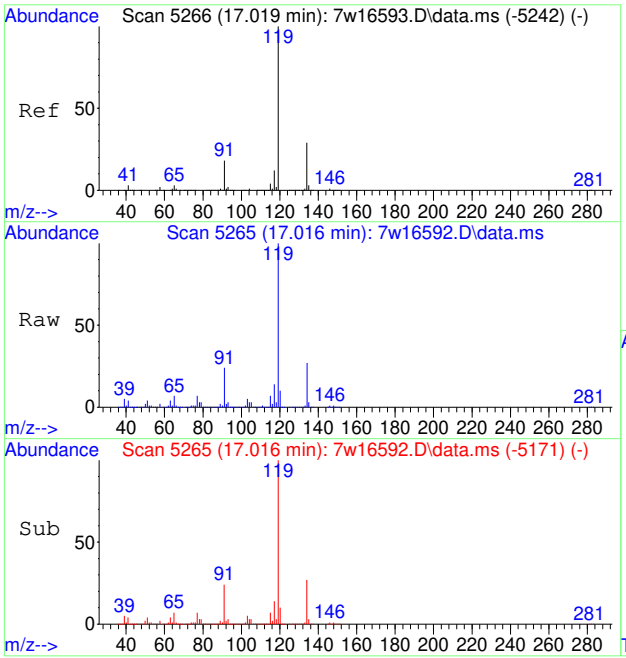


#102
1,2,3-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2270987

Ion	Ratio	Lower	Upper
105	100		
120	41.9	29.3	54.3
91	9.8	7.0	13.0

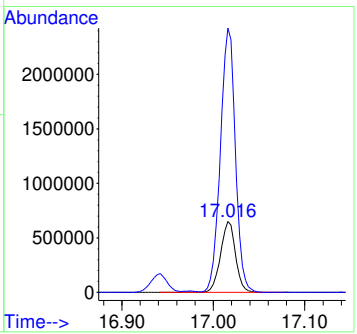


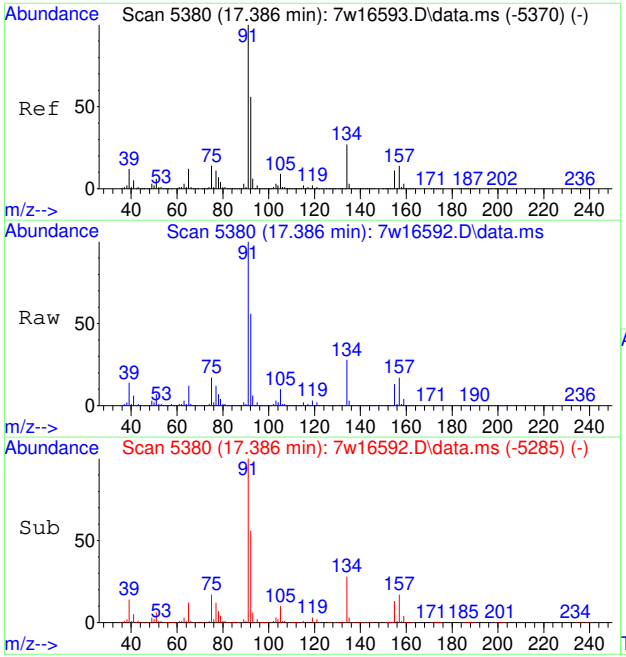


#103
P-ISOPROPYLTOLUENE
Concen: 42.05 PPBV
RT: 17.016 min Scan# 5265
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 742541

Ion	Ratio	Lower	Upper
134	100		
119	374.5	261.4	485.4

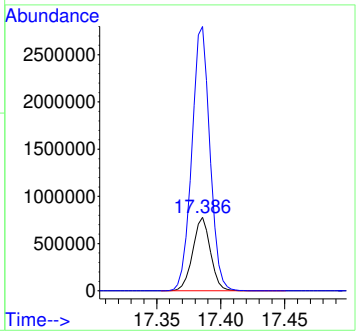


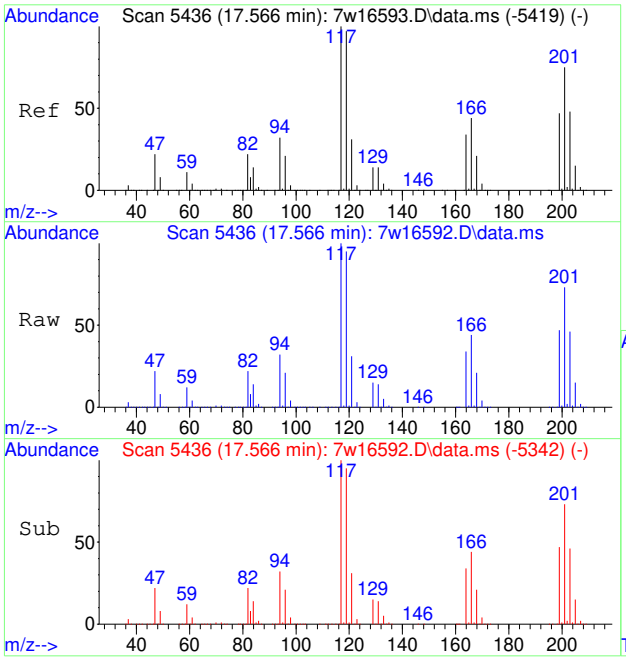


#104
N-BUTYLBENZENE
Concen: 45.09 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 743410

Ion	Ratio	Lower	Upper
134	100		
91	369.5	261.0	484.8

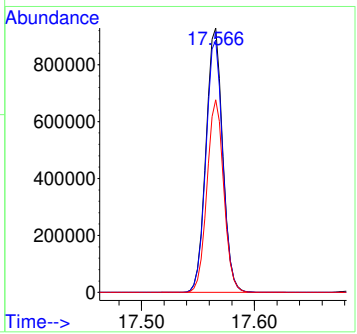


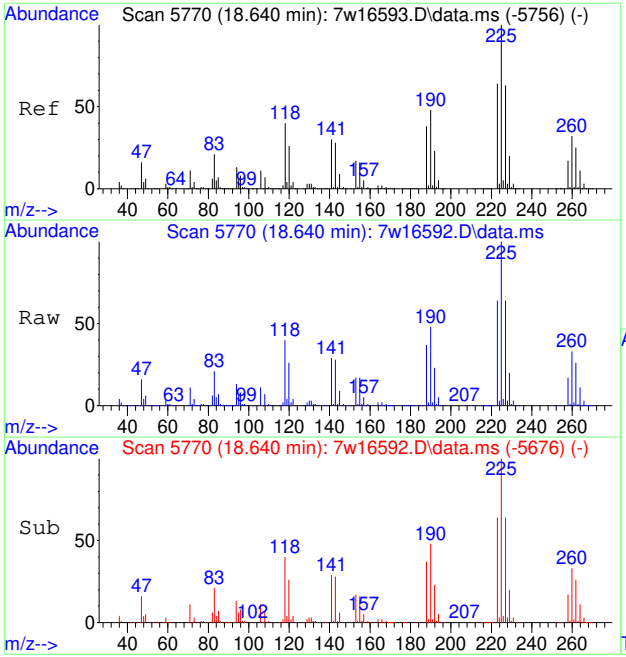


#105
HEXACHLOROETHANE
Concen: 47.76 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 951757

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	72.8	49.8	92.6

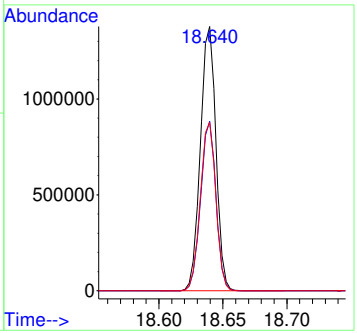


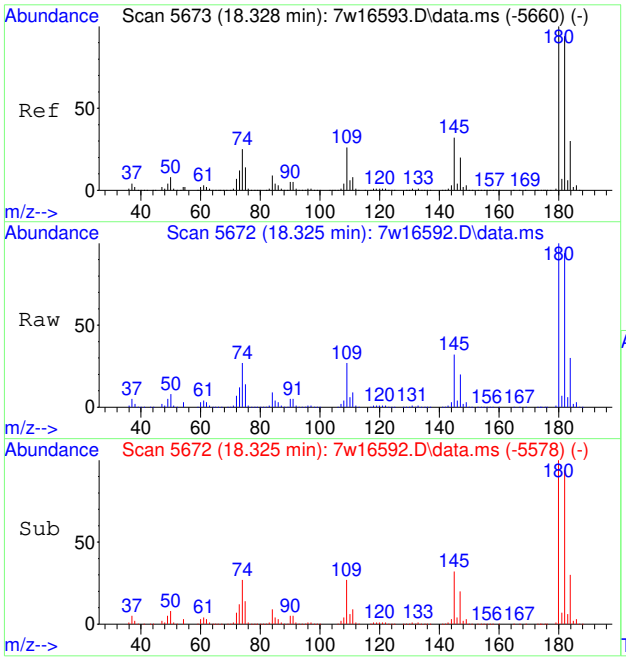


#106
HEXACHLOROBUTADIENE
Concen: 48.46 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:225 Resp: 1162376

Ion	Ratio	Lower	Upper
225	100		
227	63.3	44.6	82.8
223	63.6	44.6	82.8

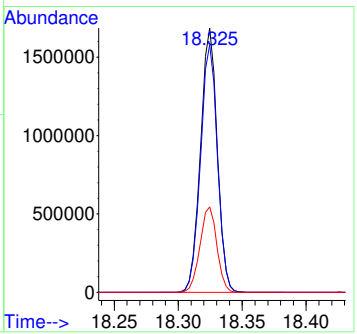


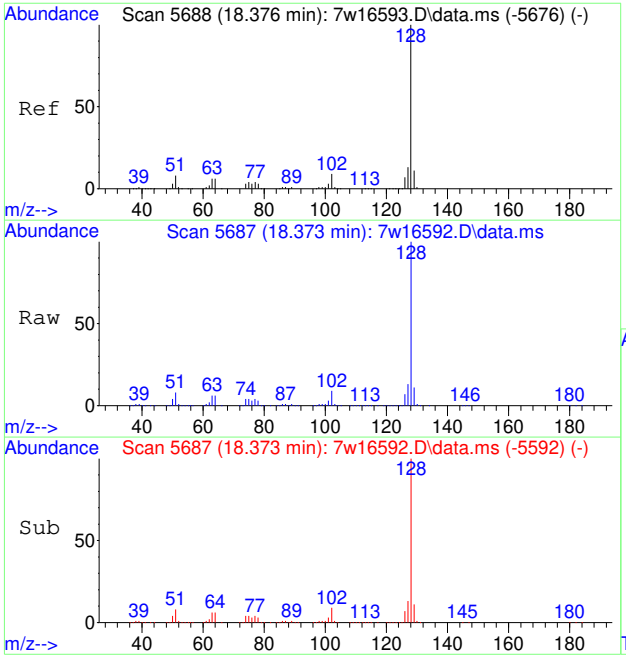


#107
1,2,4-TRICHLOROBENZENE
Concen: 56.96 PPBV
RT: 18.325 min Scan# 5672
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:180 Resp: 1534367

Ion	Ratio	Lower	Upper
180	100		
182	94.5	66.6	123.6
145	32.7	22.5	41.9

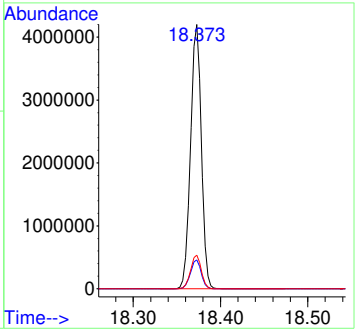


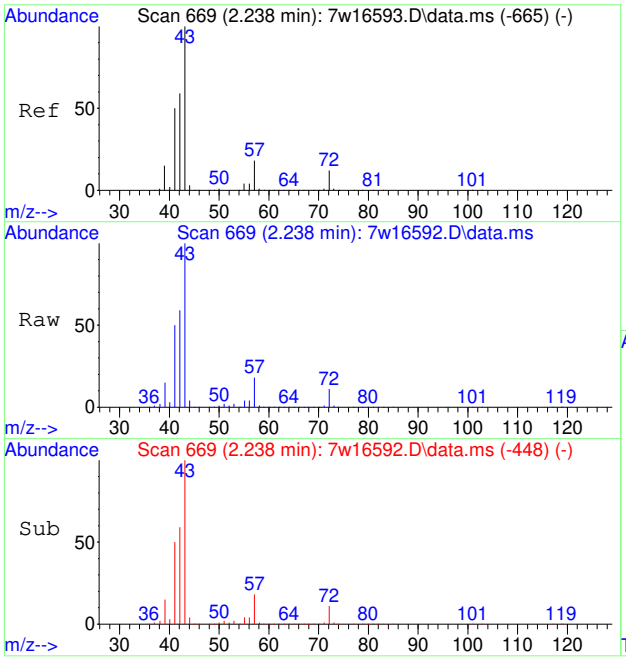


#108
NAPHTHALENE
Concen: 60.99 PPBV
RT: 18.373 min Scan# 5687
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:128 Resp: 3606459

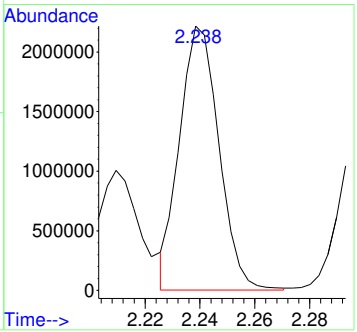
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.7	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 32.90 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:TIC Resp: 2205824



Manual Integration Approval Summary

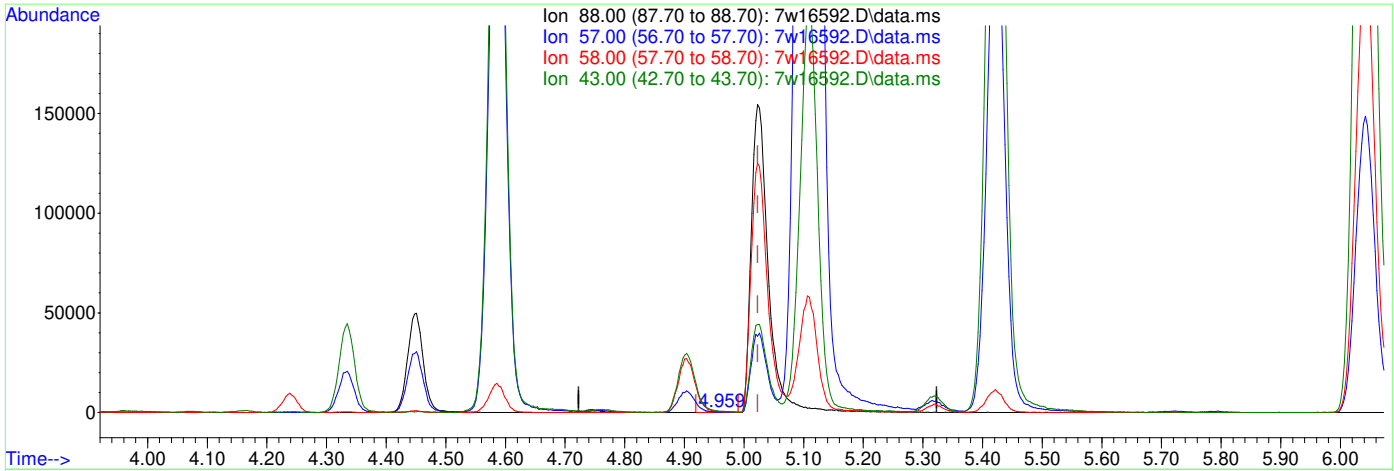
Sample Number: V7W577-IC577
Lab FileID: 7W16592.D
Injection Time: 08/07/25 14:30
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

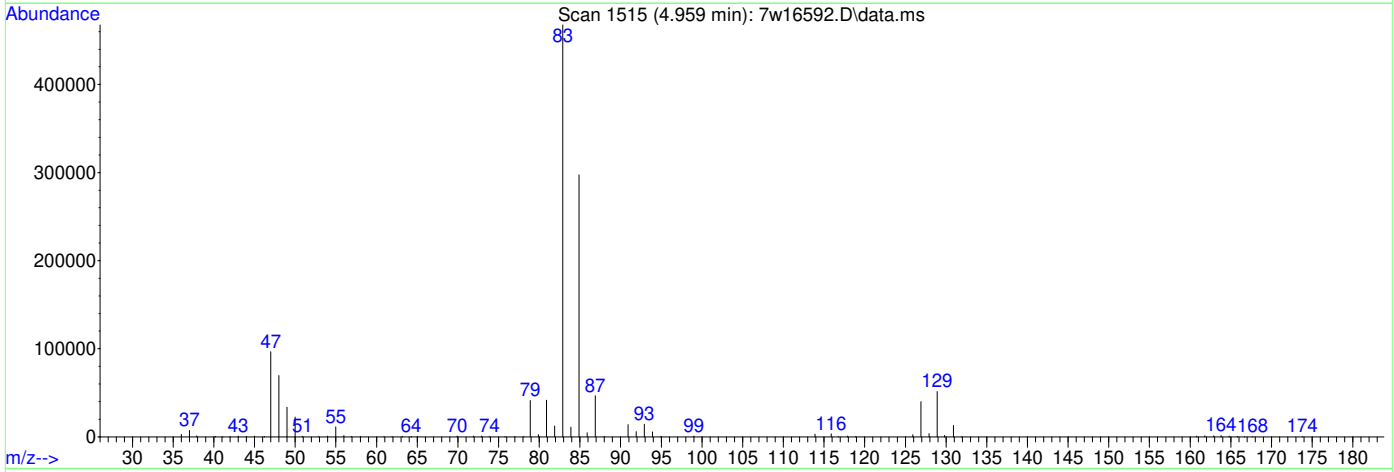
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.02	Missed peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On    :  7 Aug 2025   2:30 pm
Operator  : benk
Sample    : ic577-40
Misc      : MS93209,v7w577,,,,,1
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title  : TO15 by GCMS w/DB-1, 30m  X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration
```





(61) 1,4-DIOXANE (T)

4.959min (-0.064) 0.14PPBV

response 1156

Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

M7W577.M Thu Aug 07 14:57:05 2025 Page: 1

7.7.21.2 7

1696 of 1905

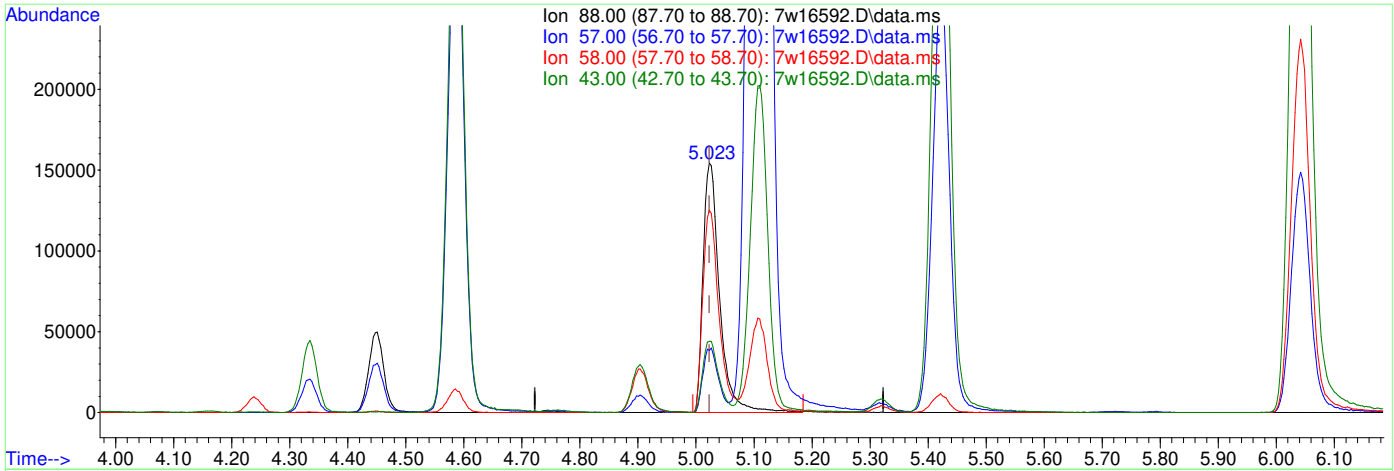
7W16592.D edits: 1,4-DIOXANE

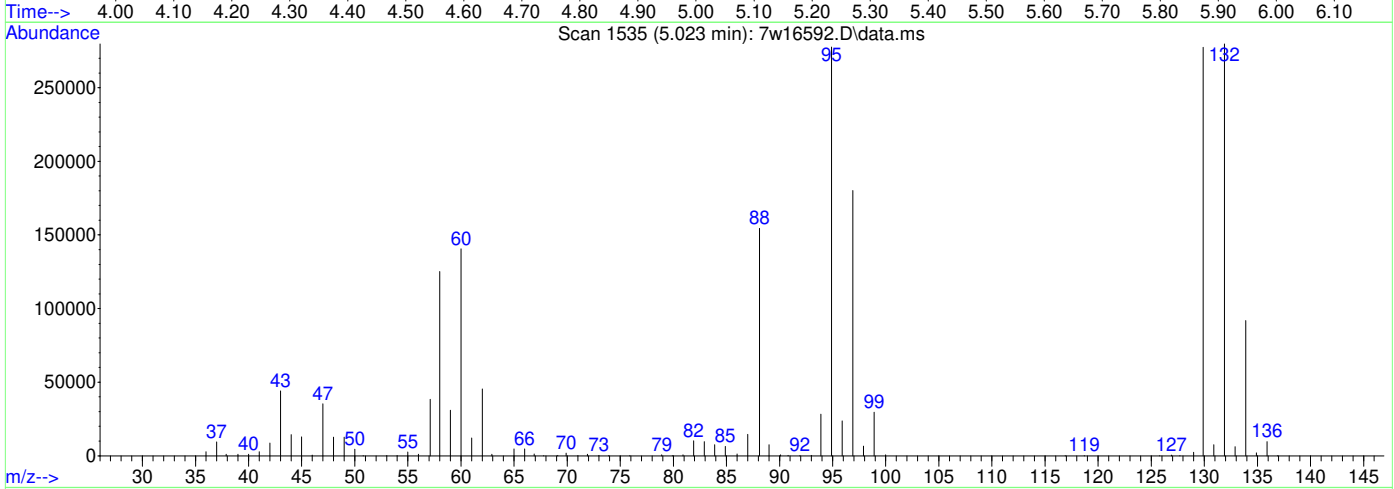
JE23793

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

5.023min (+0.000) 38.33PPBV m

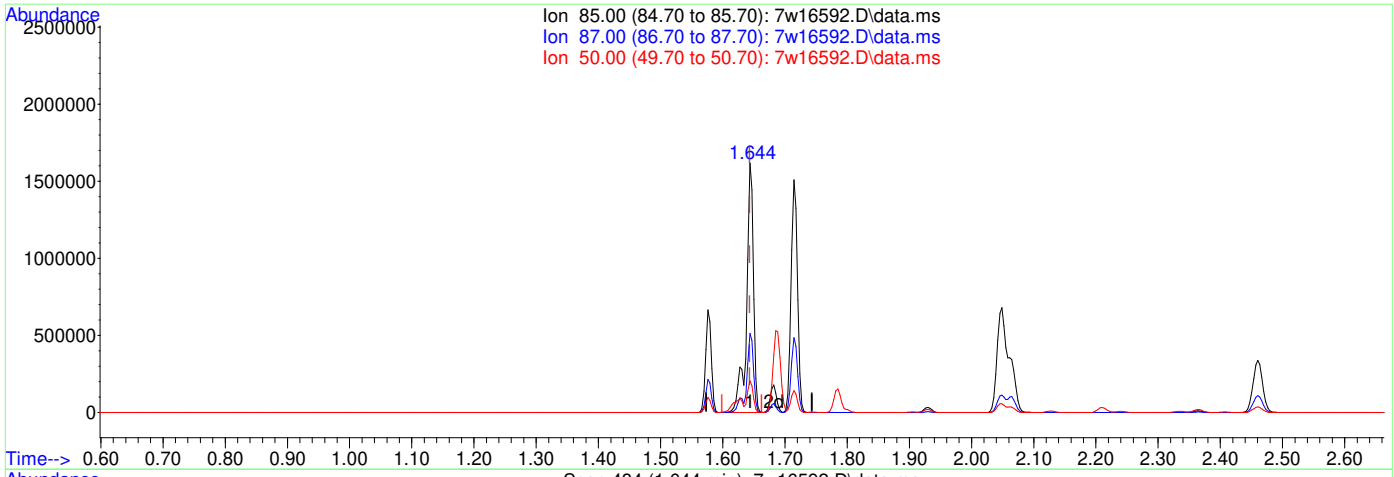
response 307098

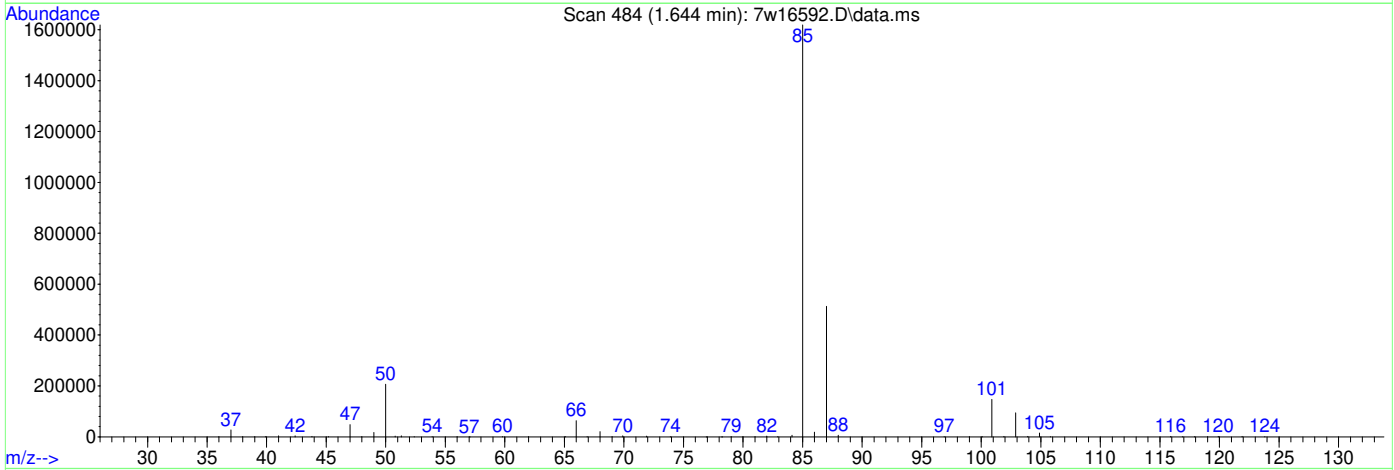
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 39.56PPBV

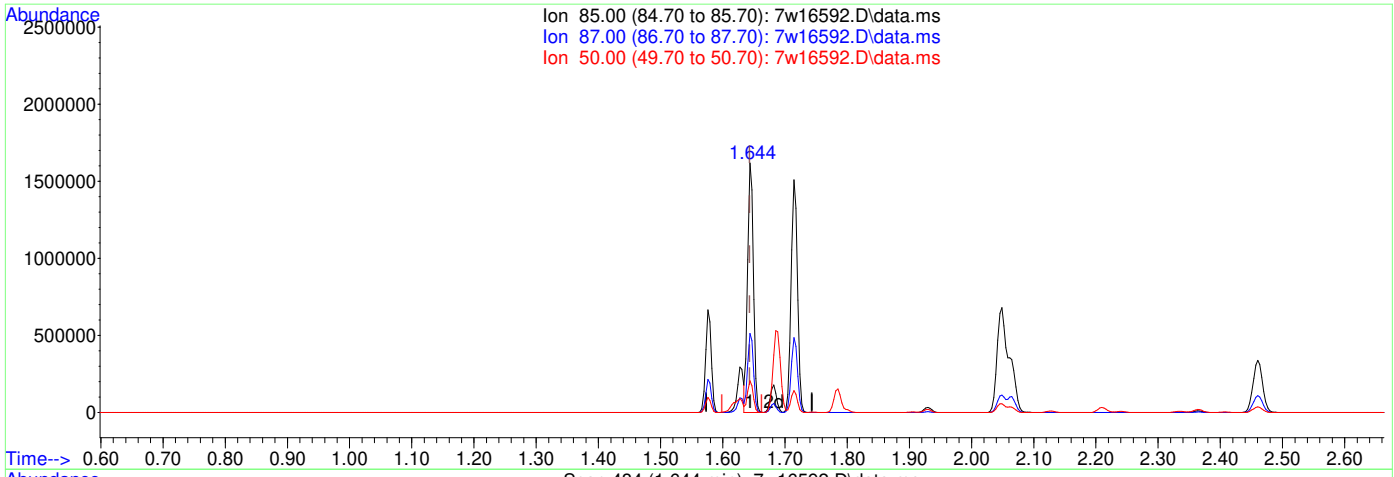
response 1248425

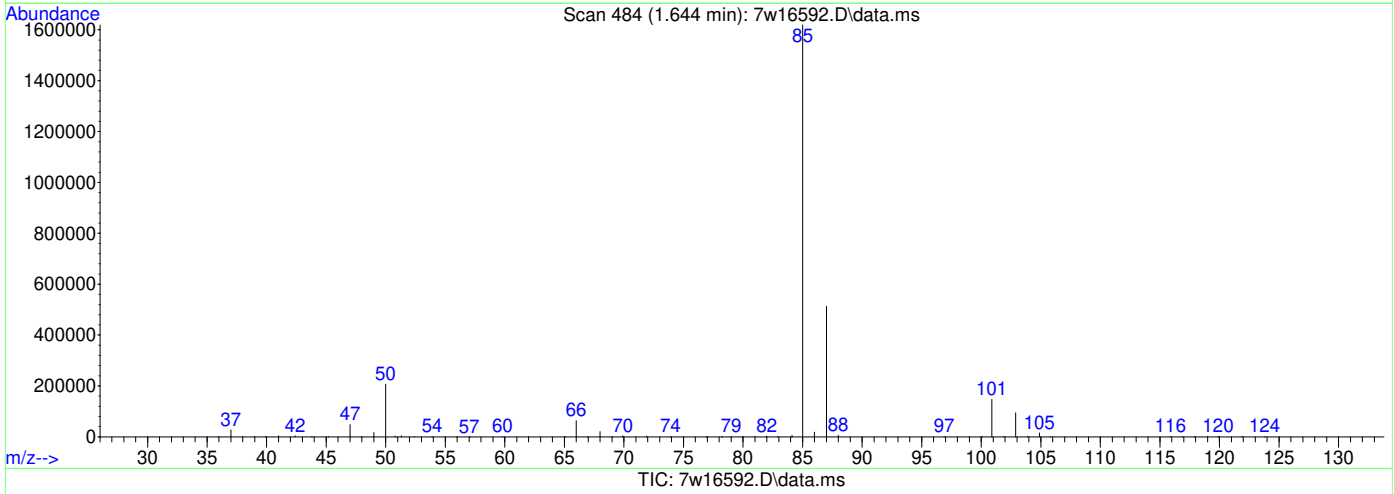
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.14
50.00	19.30	18.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 33.07PPBV m

response 1043482

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.45
50.00	19.30	22.36
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	105717	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	531881	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	494368	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	105715	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	398017	10.03	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	347161	52.39	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	153687	53.47	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	766747	56.03	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	1341049m	44.53	PPBV		
7) PROPYLENE	1.627	41	437361	50.49	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1168248	51.17	PPBV		99
9) FREON 114	1.714	85	1366824	52.31	PPBV		99
10) CHLOROMETHANE	1.688	52	180379	48.75	PPBV		99
11) VINYL CHLORIDE	1.746	62	644820	49.80	PPBV		100
12) 1,3-BUTADIENE	1.785	54	492846	47.75	PPBV		98
13) N-BUTANE	1.801	43	861032	49.00	PPBV		99
14) BROMOMETHANE	1.859	94	489029	48.47	PPBV		99
15) CHLOROETHANE	1.904	64	335126	47.41	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	1165217	47.65	PPBV		99
17) ACETONITRILE	1.994	41	492619	39.40	PPBV		99
18) ACROLEIN	2.033	56	284178	48.79	PPBV		99
19) FREON 123	2.049	83	1284287	52.41	PPBV		100
20) FREON 123A	2.065	117	752289	51.67	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1332114	47.77	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1144041	47.91	PPBV		99
23) ACETONE	2.071	58	315550	48.52	PPBV		94
24) PENTANE	2.238	42	600441	46.26	PPBV		99
25) IODOMETHANE	2.299	142	1336999	52.52	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	541882	51.15	PPBV		96
27) CARBON DISULFIDE	2.463	76	1536663	51.13	PPBV		97
28) ETHANOL	1.933	45	274276	42.83	PPBV		100
29) BROMOETHENE	2.004	106	503032	50.05	PPBV		100
30) ACRYLONITRILE	2.209	52	465157	51.19	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	488512	46.46	PPBV		94
32) 3-CHLOROPROPENE	2.406	76	282447	50.05	PPBV		93
33) FREON 113	2.460	151	827135	52.05	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	567495	48.66	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	1271463	42.60	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	1685636	50.99	PPBV		99
37) TETRAHYDROFURAN	3.463	72	264475	49.92	PPBV		98
38) HEXANE	3.241	57	1126153	50.43	PPBV		95
39) VINYL ACETATE	2.827	86	168950	54.22	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	1126676	50.17	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	301446	49.43	PPBV		97
42) CIS-1,2-DICHLOROETHENE	3.116	96	616786	51.36	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	322160	51.01	PPBV		92
44) ETHYL ACETATE	3.251	61	229745	54.48	PPBV		86
45) METHYL ACRYLATE	3.238	55	1386411	51.53	PPBV	#	100
46) CHLOROFORM	3.264	83	1180563	50.69	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1310498	52.75	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1267195	51.99	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1338340	53.55	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	918746	51.11	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	BENZENE	4.129	78	1795488	50.31	PPBV	99
53)	CYCLOHEXANE	4.335	84	810673	52.10	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.589	71	421378	54.59	PPBV	99
55)	TRICHLOROETHENE	5.020	95	808299	48.49	PPBV	99
56)	1,2-DICHLOROPROPANE	4.788	63	756985	51.61	PPBV	99
57)	DIBROMOMETHANE	4.749	174	703285	49.34	PPBV	98
58)	ETHYL ACRYLATE	4.907	55	1751040	53.53	PPBV	100
59)	BROMODICHLOROMETHANE	4.968	83	1363903	51.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	3474233	47.72	PPBV	100
61)	1,4-DIOXANE	5.023	88	402995	51.97	PPBV	98
62)	HEPTANE	5.421	43	1183014	49.34	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	696280	52.38	PPBV	96
64)	METHYL ISOBUTYL KETONE	6.045	58	692709	48.13	PPBV	98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	1209649	54.68	PPBV	97
66)	TOLUENE	7.138	91	2257380	53.54	PPBV	99
67)	1,3-DICHLOROPROPANE	7.200	76	1150031	54.57	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	1086853	55.09	PPBV	98
69)	1,1,2-TRICHLOROETHANE	6.772	83	657452	55.07	PPBV	99
70)	2-HEXANONE	7.701	58	931287	45.78	PPBV	97
71)	ETHYL METHACRYLATE	7.839	69	1191952	54.01	PPBV	98
72)	TETRACHLOROETHENE	8.852	164	838148	54.58	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.666	129	1403452	58.86	PPBV	100
74)	1,2-DIBROMOETHANE	8.010	107	1223967	56.46	PPBV	100
75)	OCTANE	9.003	43	1670114	52.30	PPBV	99
77)	1,1,1,2-TETRACHLOROETHANE	10.068	131	1014574	57.95	PPBV	100
78)	CHLOROBENZENE	10.055	112	1847440	54.82	PPBV	99
79)	ETHYLBENZENE	10.936	91	3062670	55.49	PPBV	100
80)	M,P-XYLENE	11.363	91	4688509	104.27	PPBV	90
81)	O-XYLENE	12.293	91	2383048	54.76	PPBV	98
82)	STYRENE	12.080	104	1884473	58.71	PPBV	99
83)	NONANE	13.415	43	1775546	52.08	PPBV	98
84)	BROMOFORM	11.174	173	1265430	63.02	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.309	83	1733579	55.83	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.592	75	1360230	55.93	PPBV	100
88)	ISOPROPYLBENZENE	13.804	120	894931	54.23	PPBV	98
89)	BROMOBENZENE	13.669	77	1702334	53.56	PPBV	99
90)	2-CHLOROTOLUENE	14.797	126	829710	54.34	PPBV	100
91)	N-PROPYLBENZENE	15.138	120	961239	55.42	PPBV	100
92)	4-ETHYLTOLUENE	15.582	105	3566781	55.47	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.858	105	2975442	55.47	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.183	118	1513322	57.73	PPBV	99
95)	TERT-BUTYLBENZENE	16.505	134	714841	54.19	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3037196	57.25	PPBV	99
97)	BENZYL CHLORIDE	16.608	91	2795409	68.69	PPBV	99
98)	M-DICHLOROBENZENE	16.582	146	1958237	53.40	PPBV	100
99)	P-DICHLOROBENZENE	16.675	146	1991134	55.15	PPBV	100
100)	O-DICHLOROBENZENE	16.997	146	1868131	55.08	PPBV	100
101)	SEC-BUTYLBENZENE	16.820	134	879244	56.32	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2956799	55.49	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.019	134	964439	55.64	PPBV	99
104)	N-BUTYLBENZENE	17.386	134	974353	59.74	PPBV	97
105)	HEXACHLOROETHANE	17.566	117	1246101	62.73	PPBV	98
106)	HEXACHLOROBUTADIENE	18.640	225	1541106	64.95	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2093092	76.81	PPBV	99
108)	NAPHTHALENE	18.376	128	4901356	81.19	PPBV	99
110)	TVHC as equiv Pentane	2.238	TIC	2811423	45.25	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

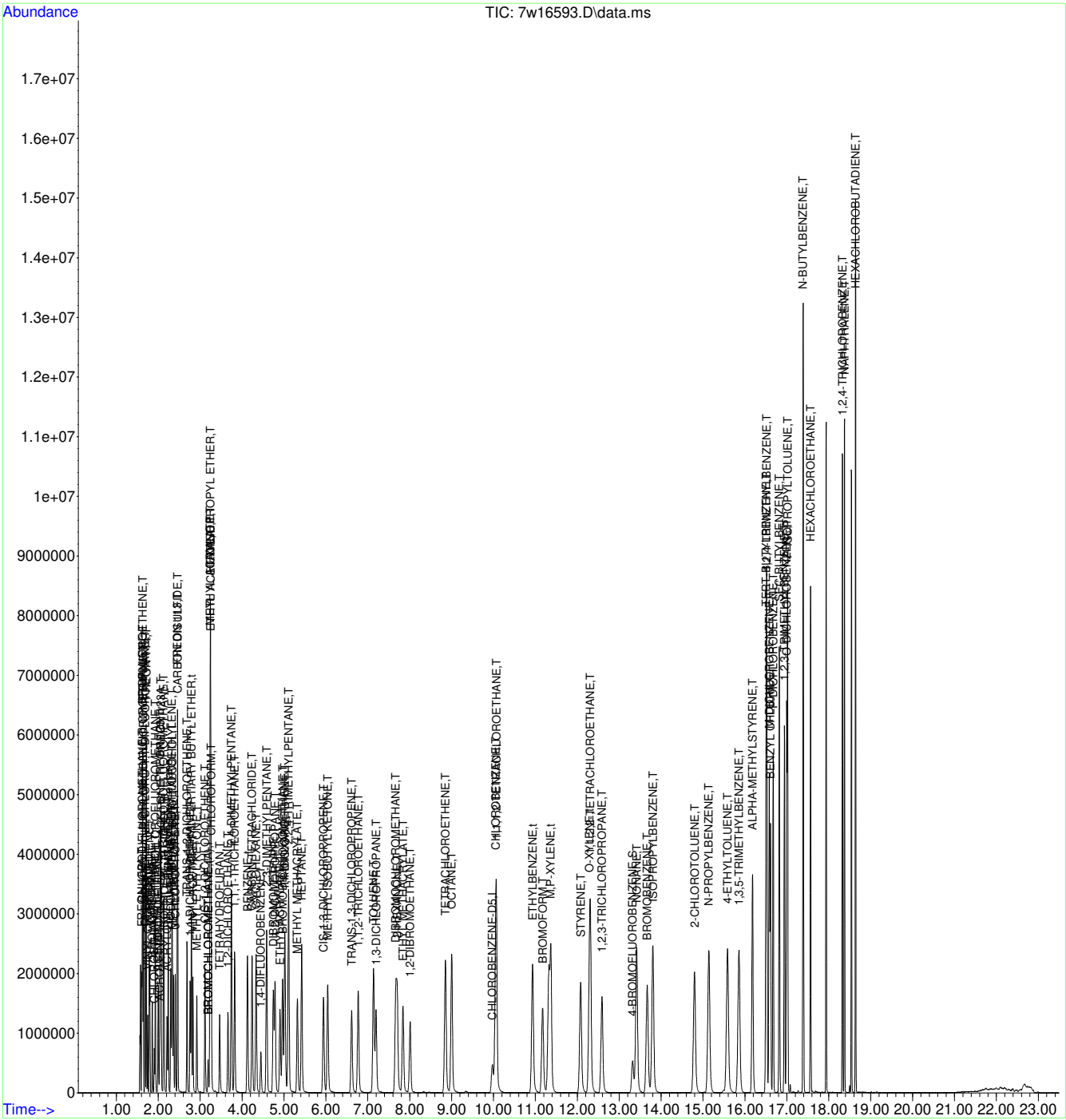
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

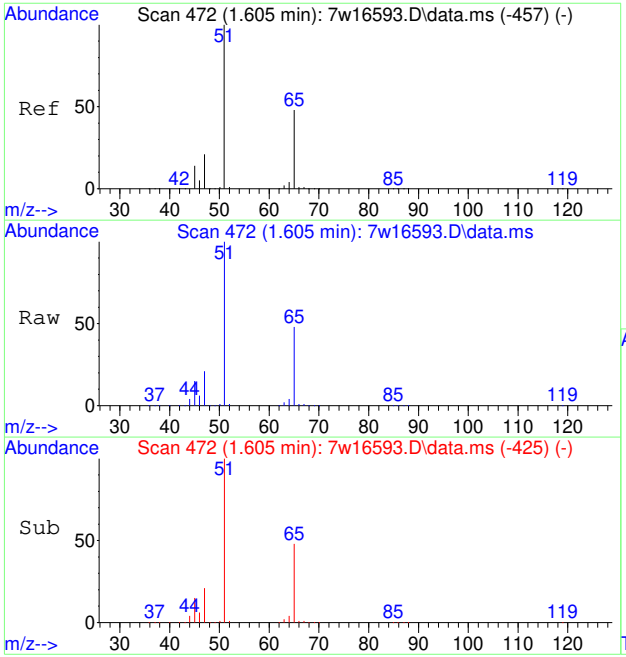
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

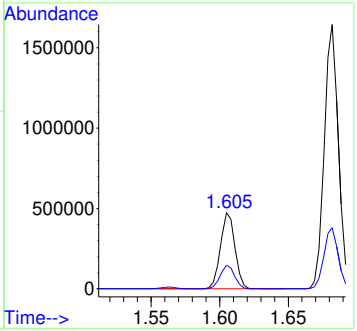


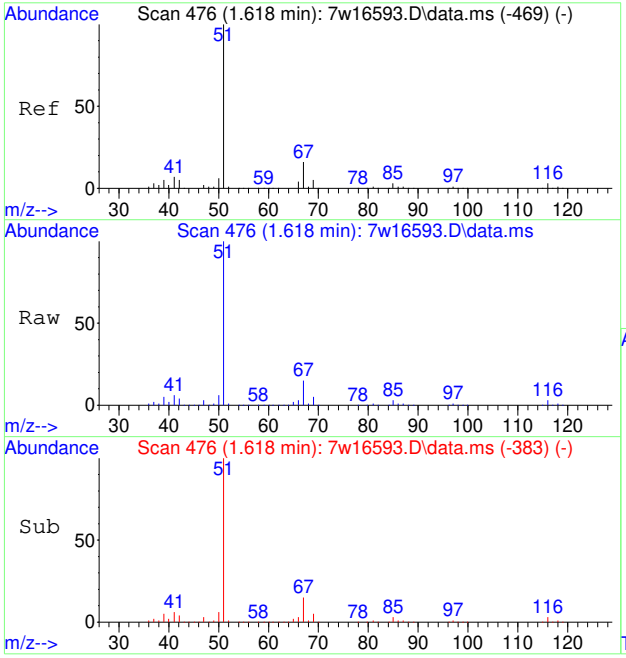


#3
FREON 152A
Concen: 52.39 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 347161

Ion	Ratio	Lower	Upper
65	100		
45	30.7	23.0	42.8

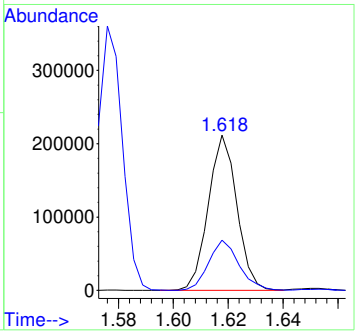


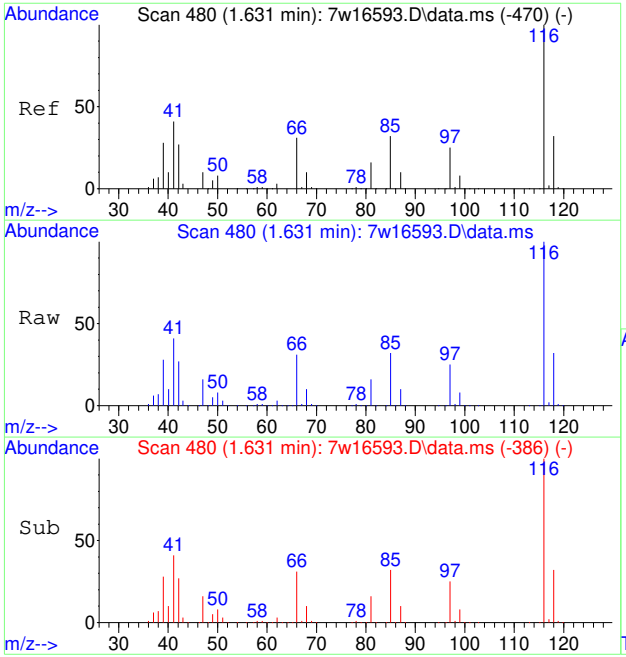


#4
CHLORODIFLUOROMETHANE
Concen: 53.47 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 153687

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

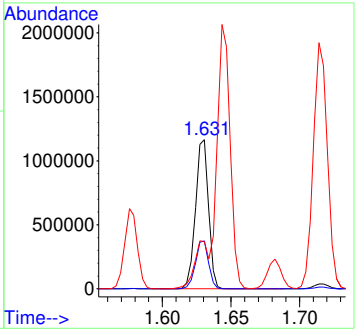


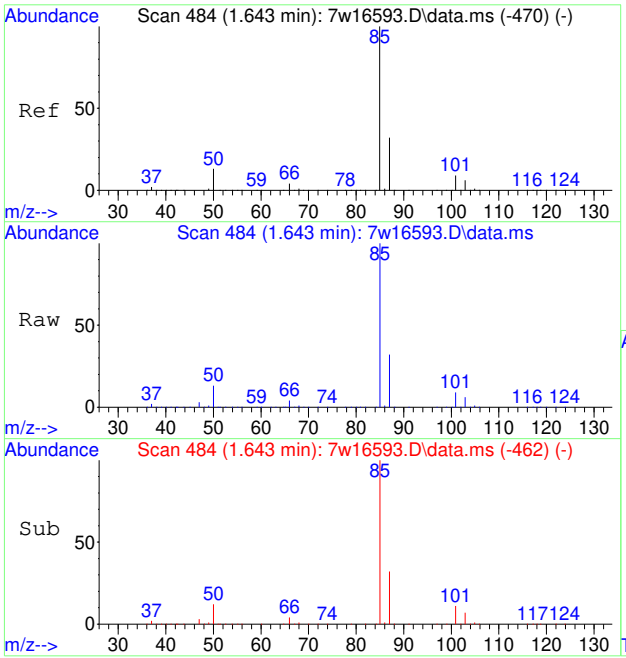


#5
CHLOROTRIFLUOROETHENE
Concen: 56.03 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:116 Resp: 766747

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	209.5	152.4	283.0

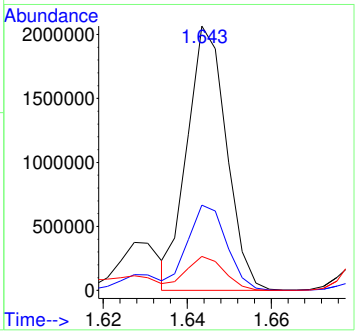


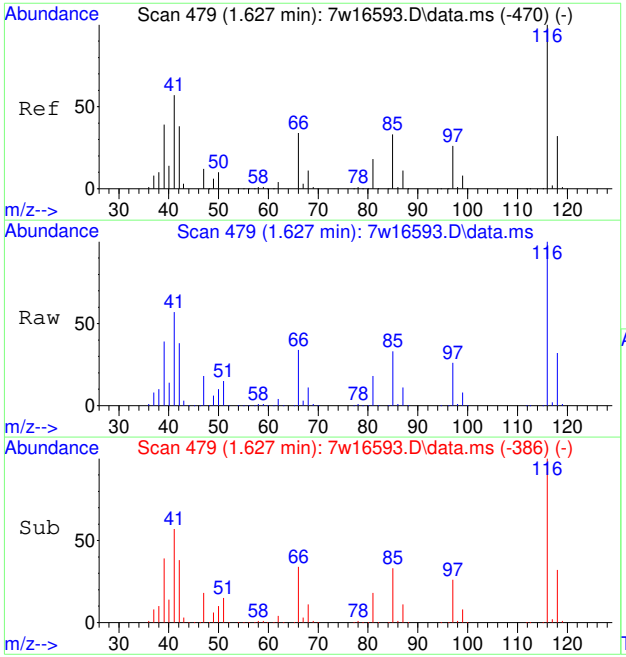


#6
DICHLORODIFLUOROMETHANE
Concen: 44.53 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1341049

Ion	Ratio	Lower	Upper
85	100		
87	38.9	23.0	42.6
50	22.3	13.5	25.1

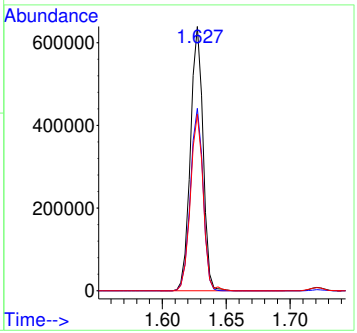


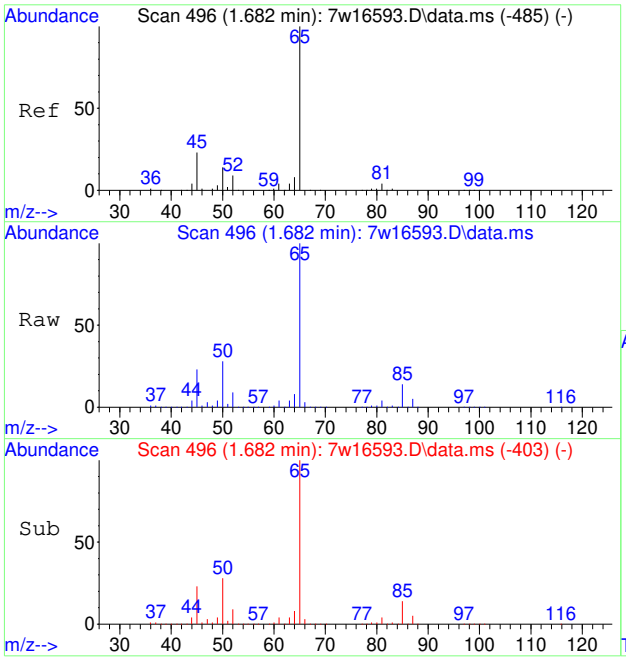


#7
PROPYLENE
Concen: 50.49 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 437361

Ion	Ratio	Lower	Upper
41	100		
39	69.4	50.5	93.7
42	67.7	47.0	87.4

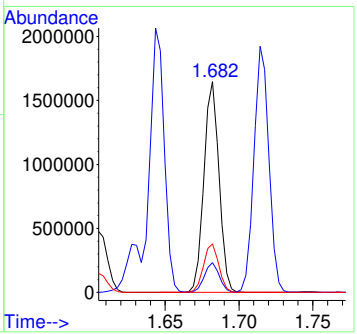


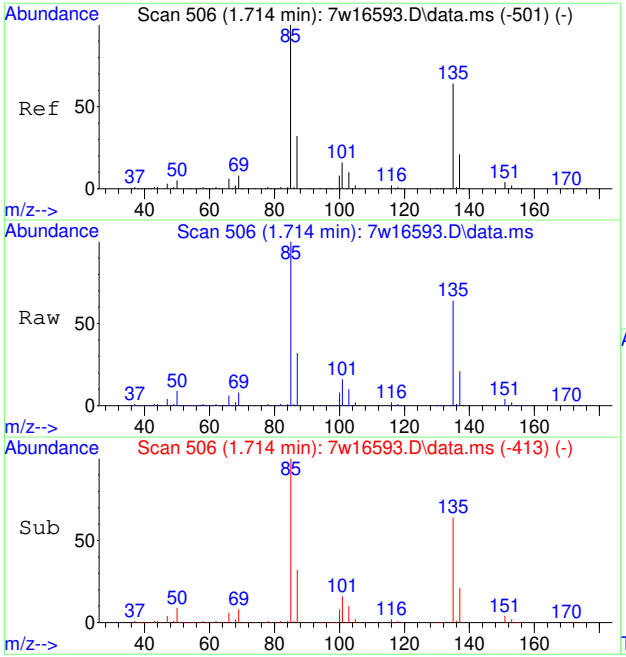


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 51.17 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 1168248

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

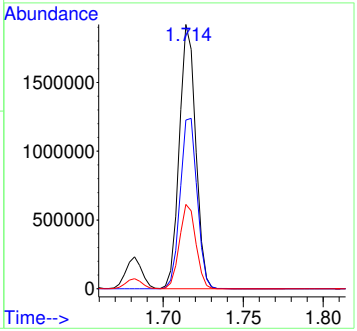


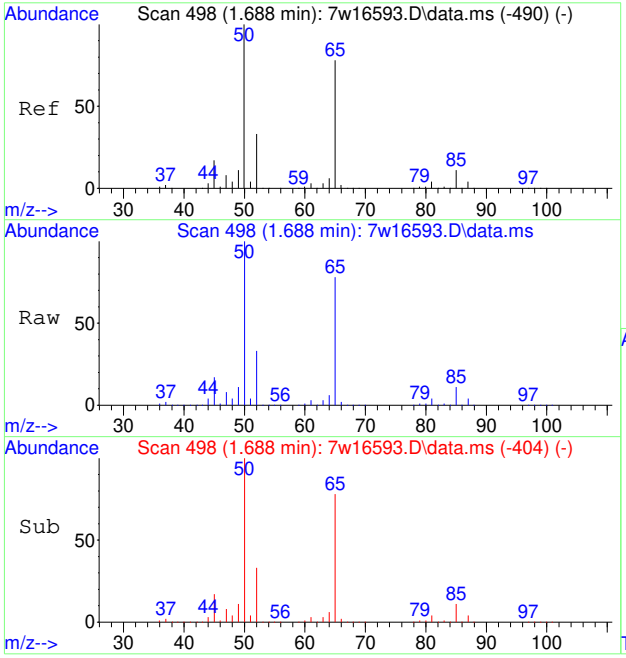


#9
FREON 114
Concen: 52.31 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1366824

Ion	Ratio	Lower	Upper
85	100		
135	66.9	46.1	85.7
87	32.1	22.6	42.0

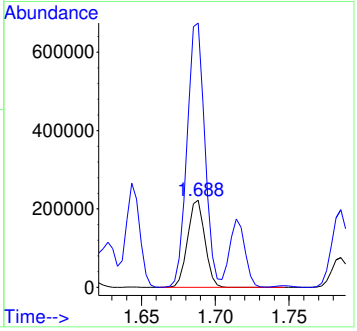


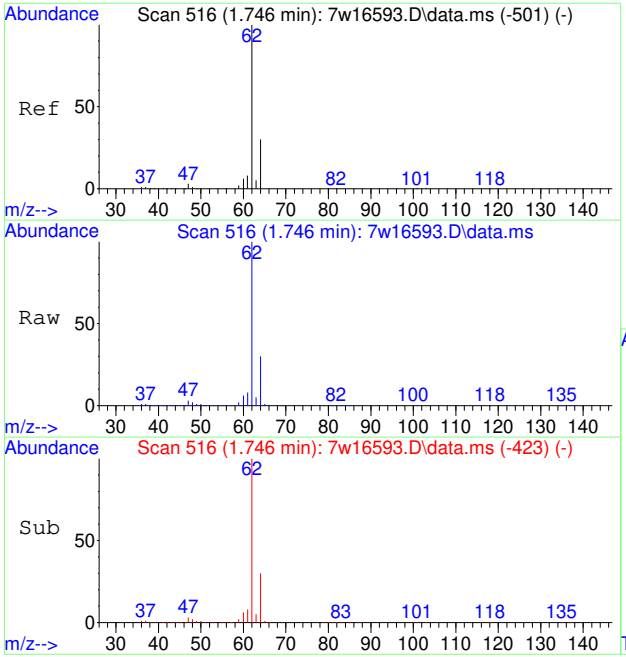


#10
CHLOROMETHANE
Concen: 48.75 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 180379

Ion	Ratio	Lower	Upper
52	100		
50	319.4	225.6	419.0

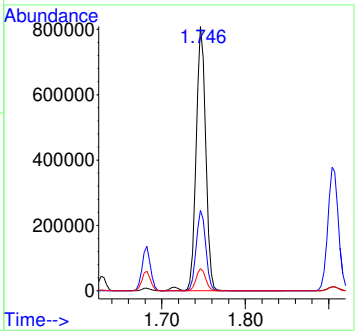


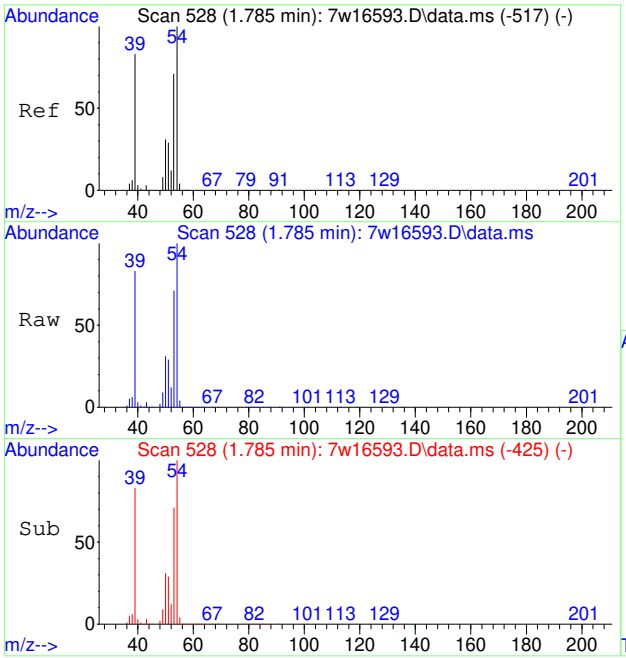


#11
VINYL CHLORIDE
Concen: 49.80 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 644820

Ion	Ratio	Lower	Upper
62	100		
64	30.3	21.3	39.6
61	8.5	5.7	10.5

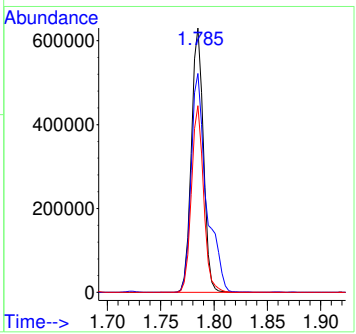


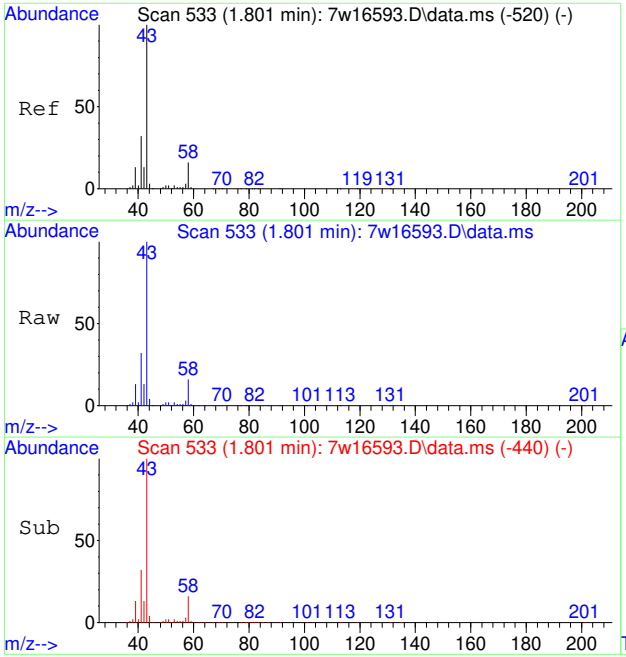


#12
1,3-BUTADIENE
Concen: 47.75 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 54 Resp: 492846

Ion	Ratio	Lower	Upper
54	100		
39	105.5	78.4	138.4
53	71.6	40.9	100.9

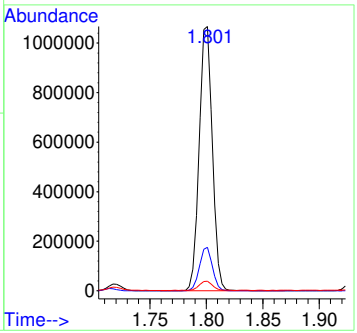


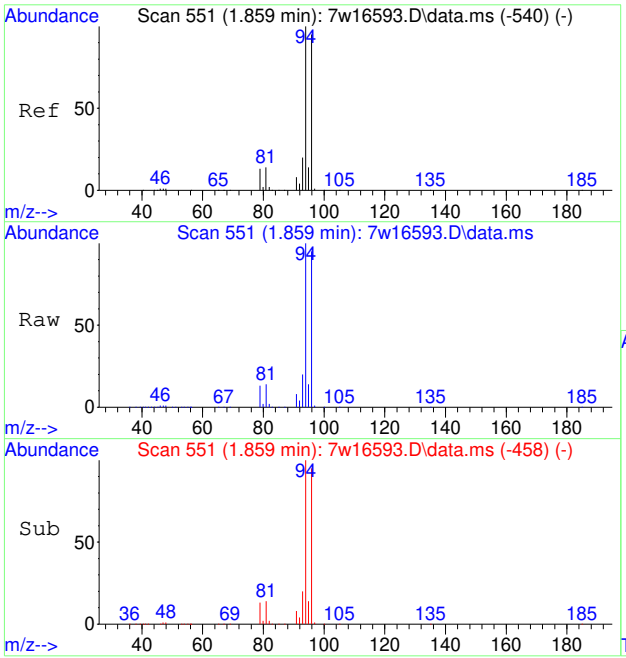


#13
N-BUTANE
Concen: 49.00 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 861032

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.6	2.6	4.8

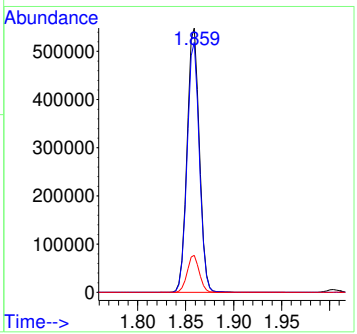


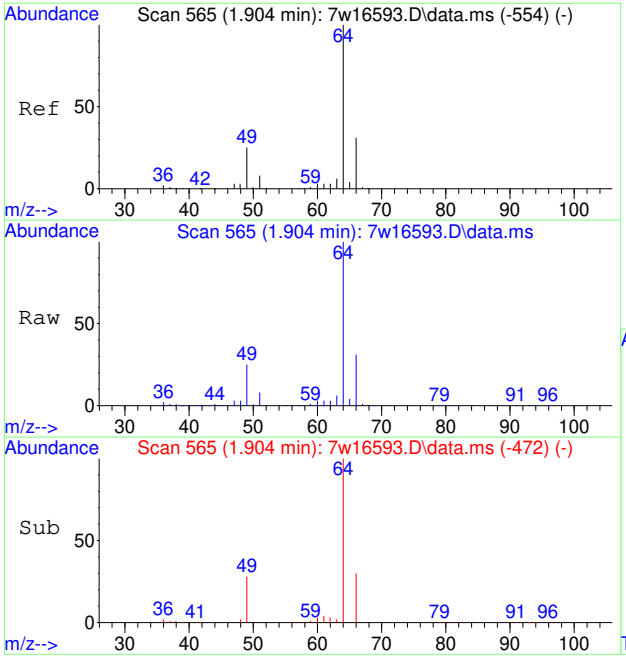


#14
BROMOMETHANE
Concen: 48.47 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 94 Resp: 489029

Ion	Ratio	Lower	Upper
94	100		
96	93.9	66.1	122.7
95	13.8	9.9	18.3

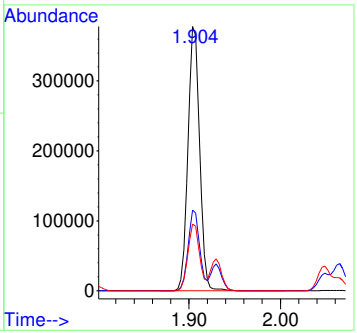


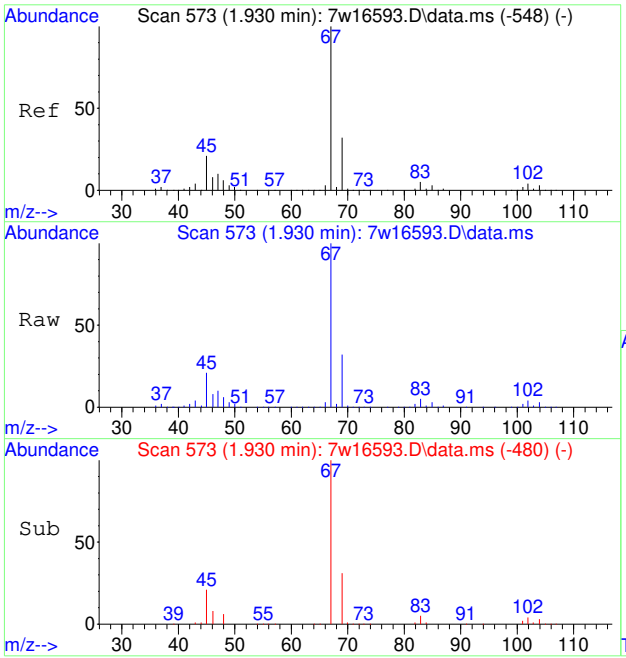


#15
CHLOROETHANE
Concen: 47.41 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 64 Resp: 335126

Ion	Ratio	Lower	Upper
64	100		
66	30.6	21.5	39.9
49	26.0	19.0	35.4

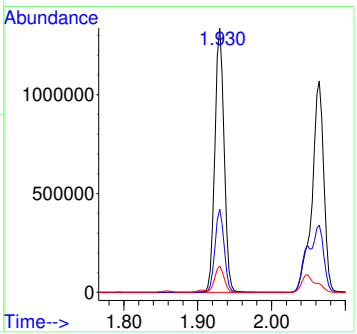


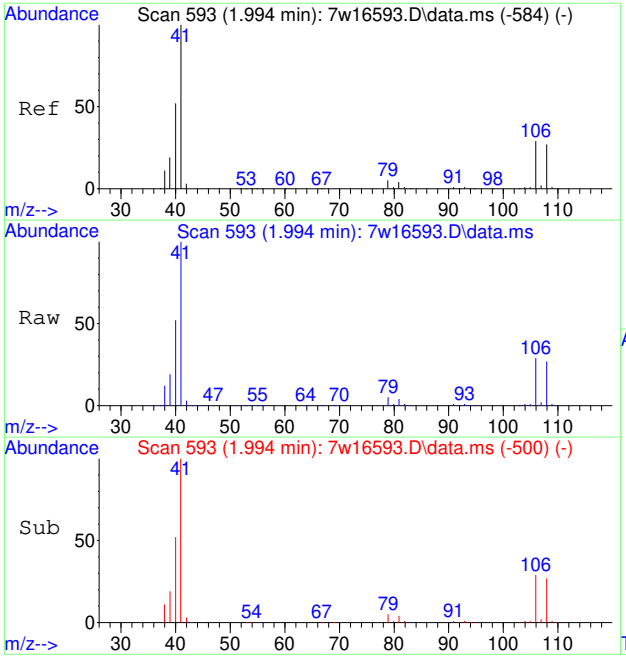


#16
DICHLOROFLUOROMETHANE
Concen: 47.65 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 1165217

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

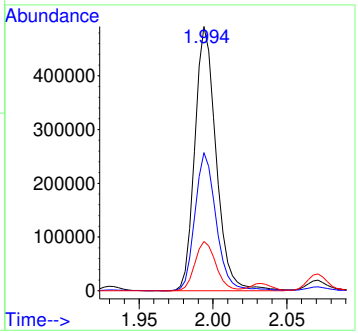


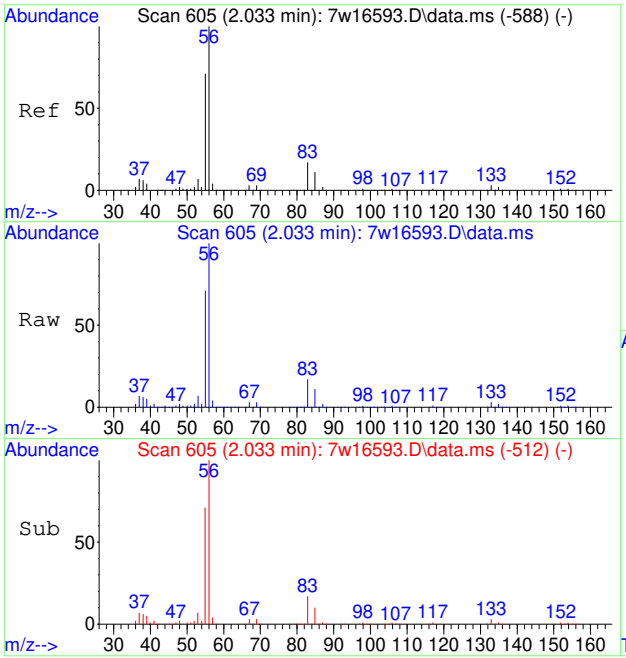


#17
ACETONITRILE
Concen: 39.40 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 492619

Ion	Ratio	Lower	Upper
41	100		
40	52.0	36.7	68.1
39	18.3	13.1	24.3

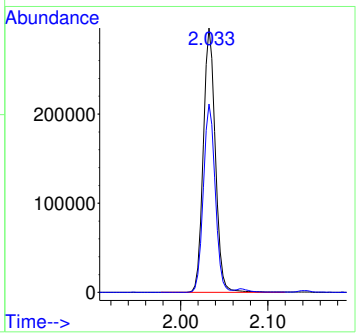


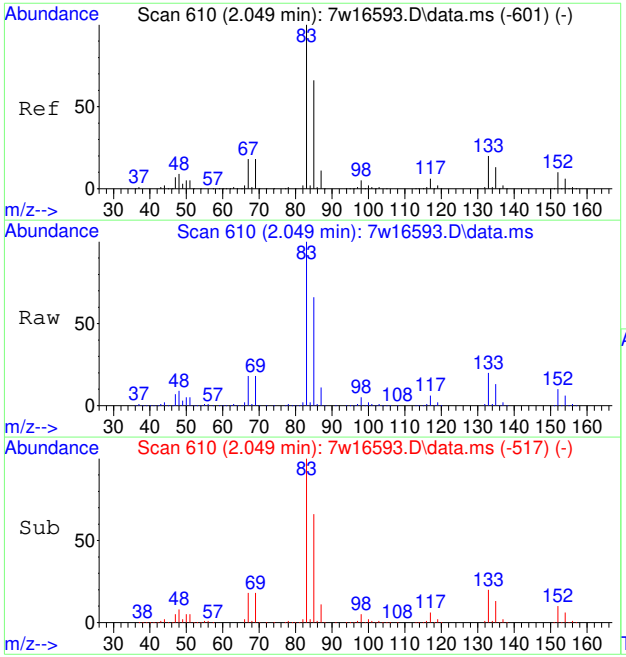


#18
ACROLEIN
Concen: 48.79 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 56 Resp: 284178

Ion	Ratio	Lower	Upper
56	100		
55	70.2	48.9	90.7

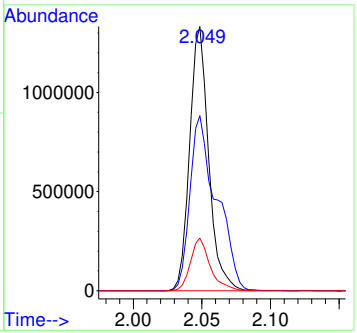


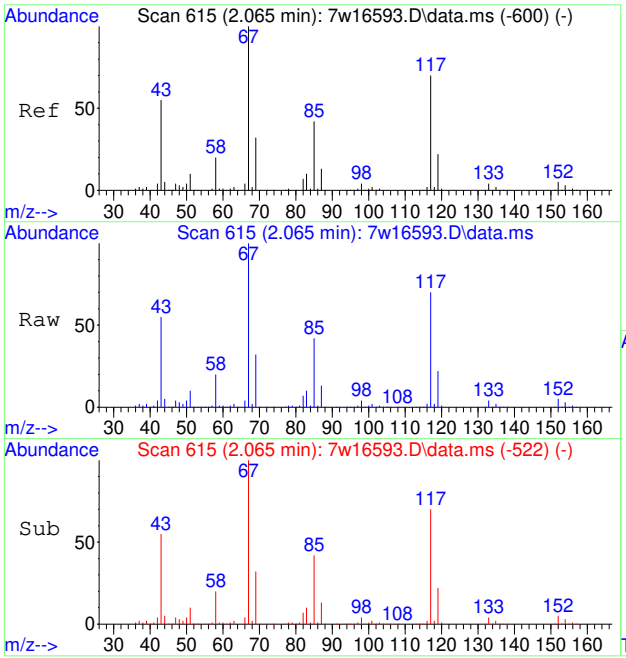


#19
FREON 123
Concen: 52.41 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1284287

Ion	Ratio	Lower	Upper
83	100		
85	92.9	64.9	120.5
133	20.7	14.7	27.3

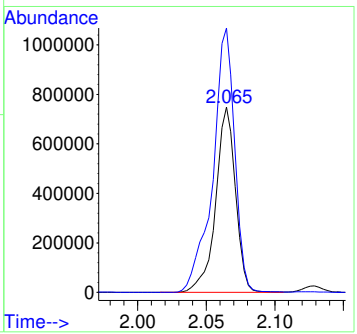


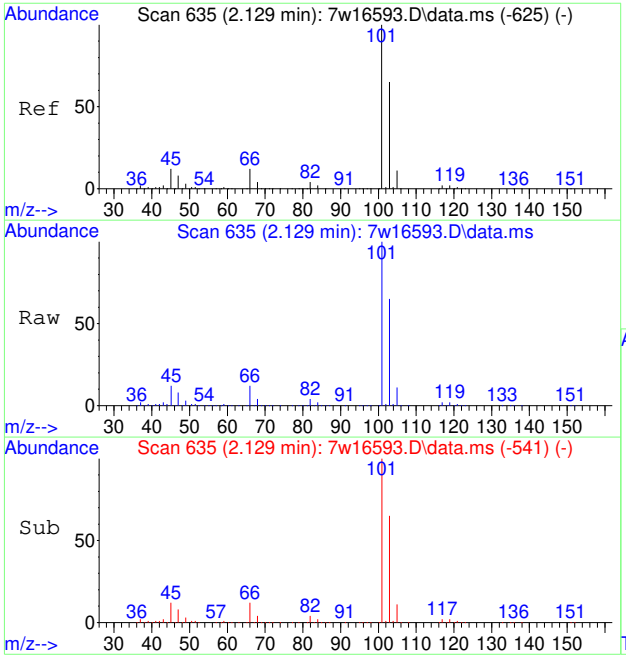


#20
FREON 123A
Concen: 51.67 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 752289

Ion	Ratio	Lower	Upper
117	100		
67	157.8	111.3	206.7

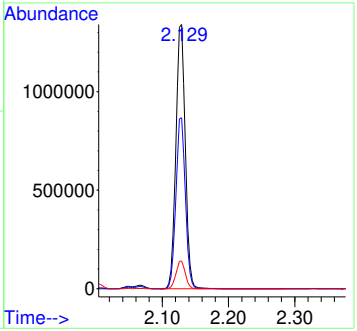


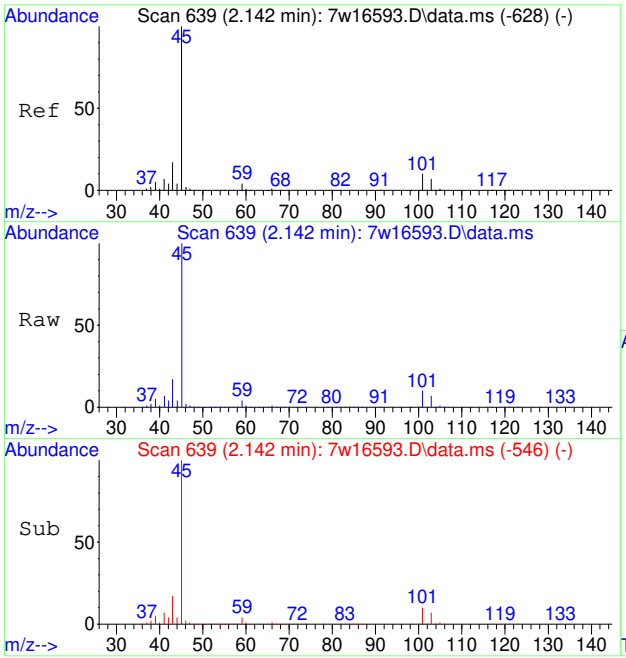


#21
TRICHLOROFLUOROMETHANE
Concen: 47.77 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:101 Resp: 1332114

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.5	7.3	13.5

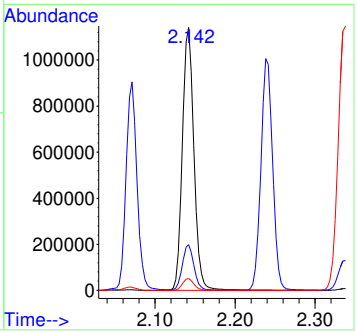


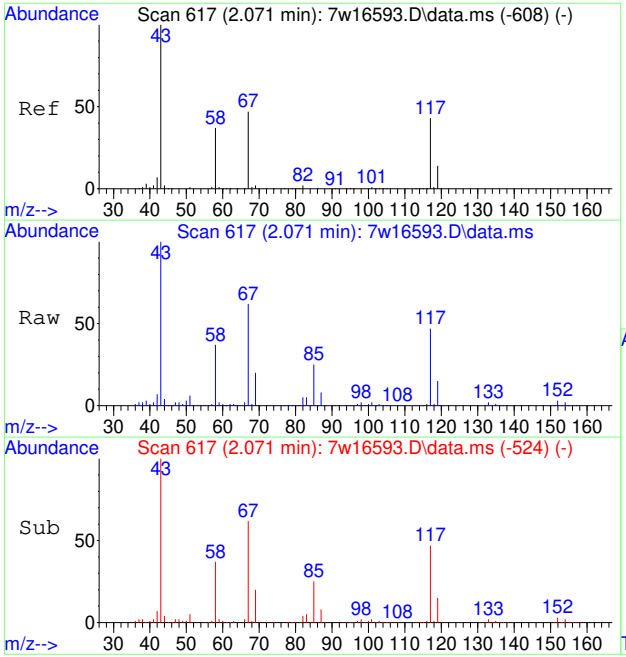


#22
ISOPROPYL ALCOHOL
Concen: 47.91 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 1144041

Ion	Ratio	Lower	Upper
45	100		
43	17.6	12.5	23.3
59	4.5	3.1	5.7

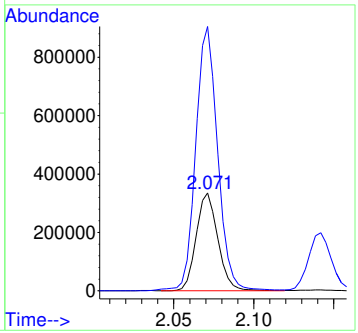


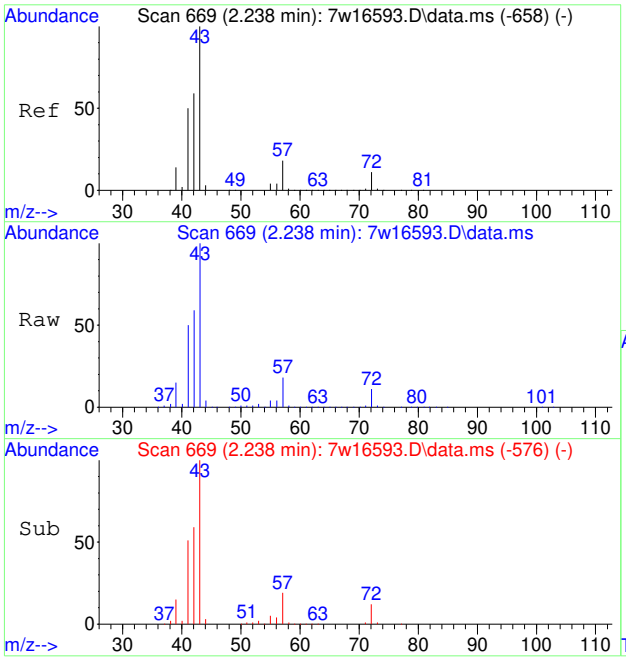


#23
ACETONE
Concen: 48.52 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 315550

Ion	Ratio	Lower	Upper
58	100		
43	272.7	198.6	368.8

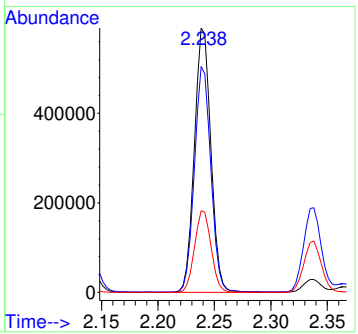


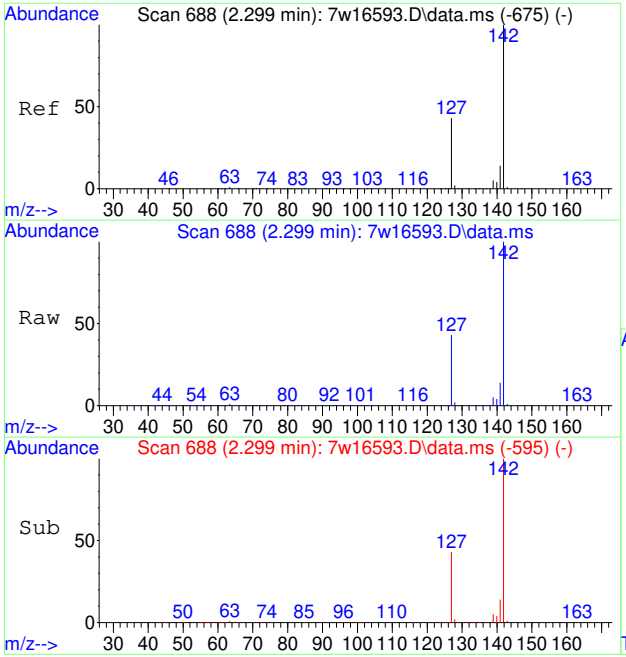


#24
PENTANE
Concen: 46.26 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 42 Resp: 600441

Ion	Ratio	Lower	Upper
42	100		
41	85.1	59.8	111.0
57	31.1	21.1	39.1

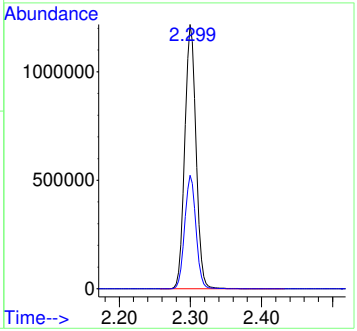


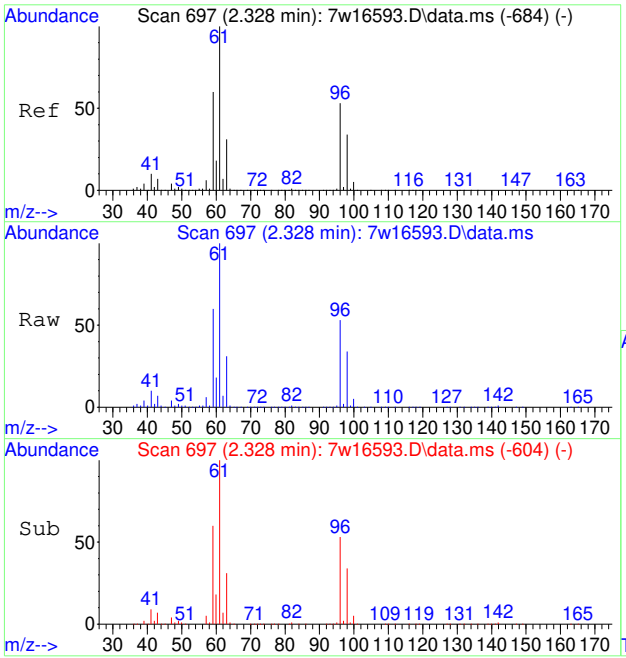


#25
IODOMETHANE
Concen: 52.52 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:142 Resp: 1336999

Ion	Ratio	Lower	Upper
142	100		
127	42.9	30.6	56.8

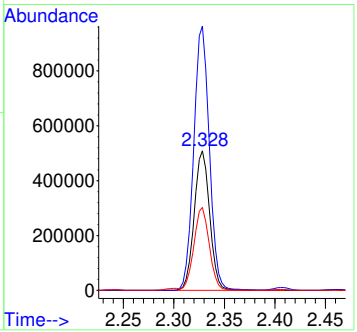


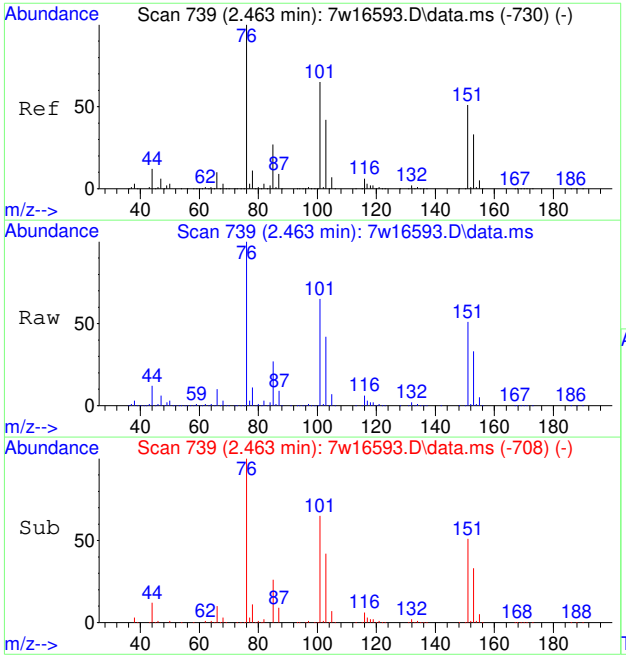


#26
1,1-DICHLOROETHYLENE
Concen: 51.15 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 541882

Ion	Ratio	Lower	Upper
96	100		
61	190.6	138.3	256.8
63	60.5	44.2	82.0

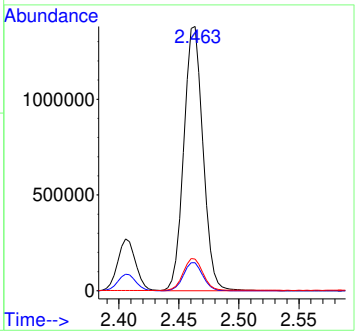


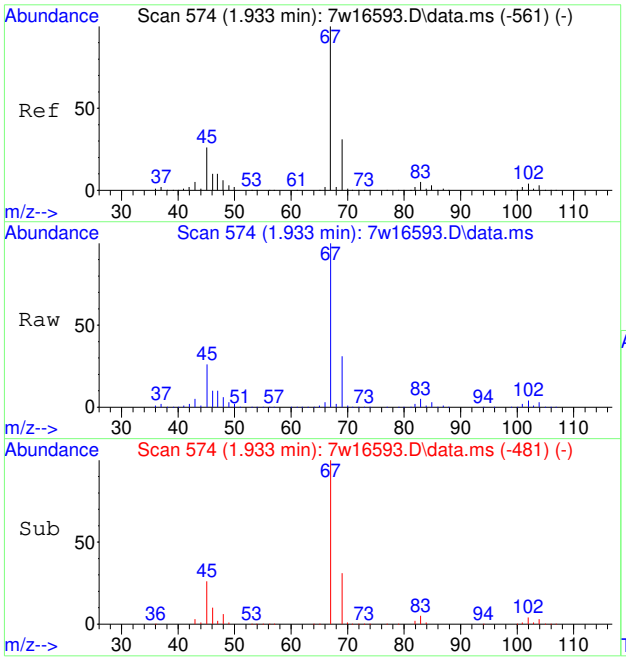


#27
CARBON DISULFIDE
Concen: 51.13 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1536663

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.4	10.2	19.0

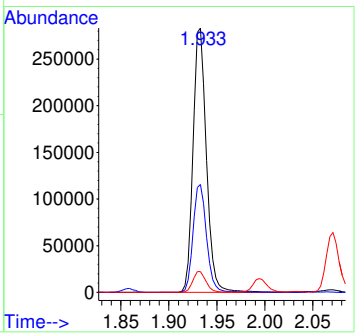


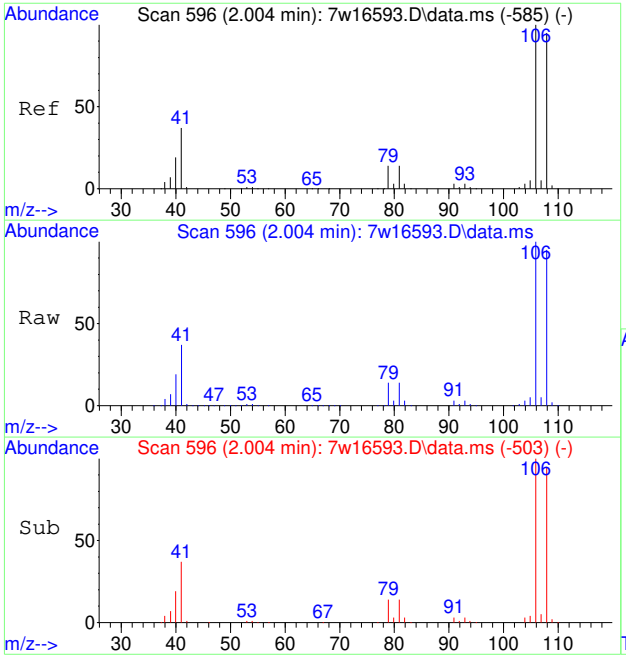


#28
ETHANOL
Concen: 42.83 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 274276

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.7	5.7	10.5

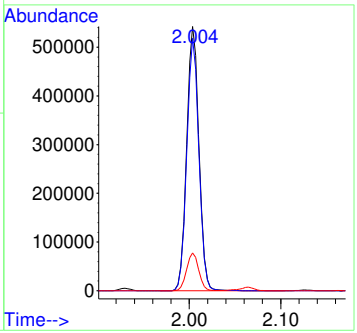


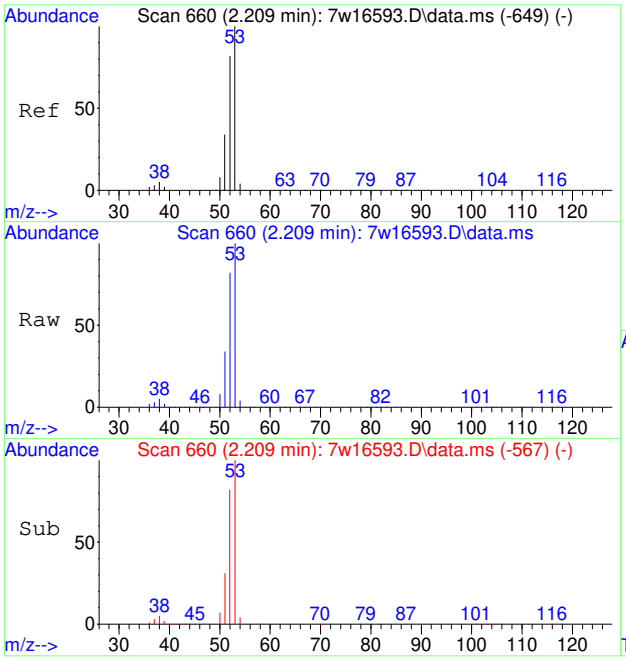


#29
BROMOETHENE
Concen: 50.05 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:106 Resp: 503032

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.2	10.6	19.8

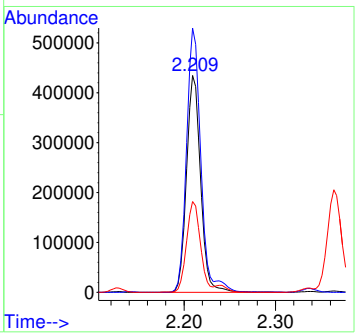


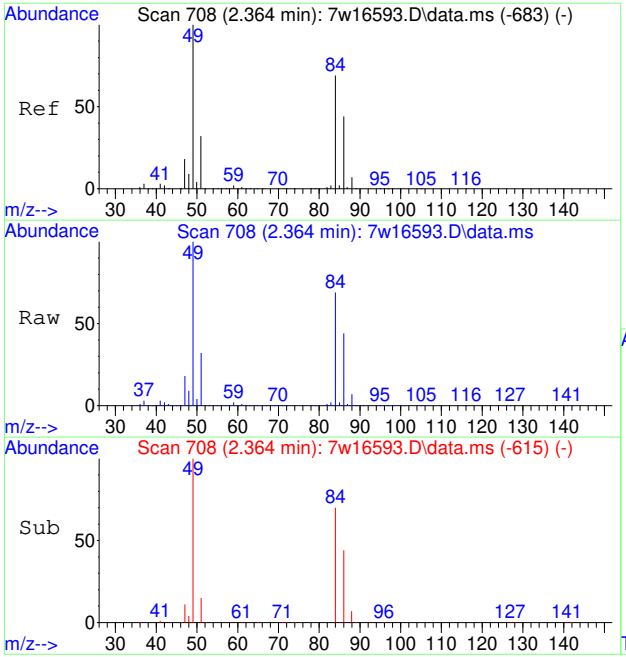


#30
ACRYLONITRILE
Concen: 51.19 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 465157

Ion	Ratio	Lower	Upper
52	100		
53	124.1	88.2	163.8
51	44.3	31.3	58.1

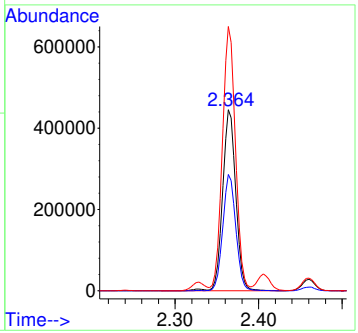


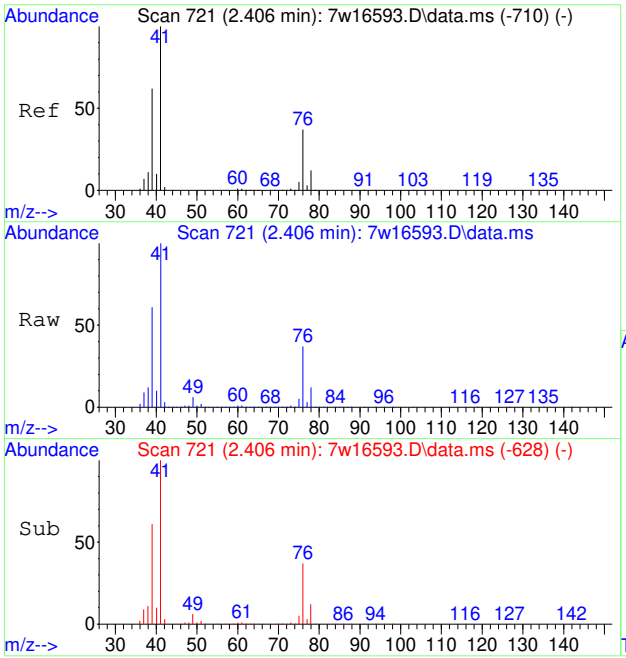


#31
METHYLENE CHLORIDE
Concen: 46.46 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 488512

Ion	Ratio	Lower	Upper
84	100		
86	63.6	44.3	82.3
49	145.0	109.5	203.3

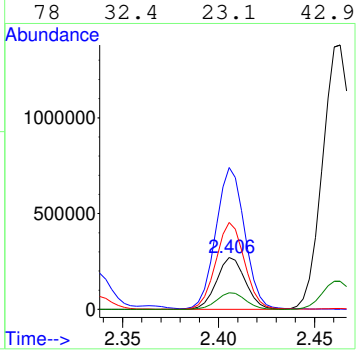


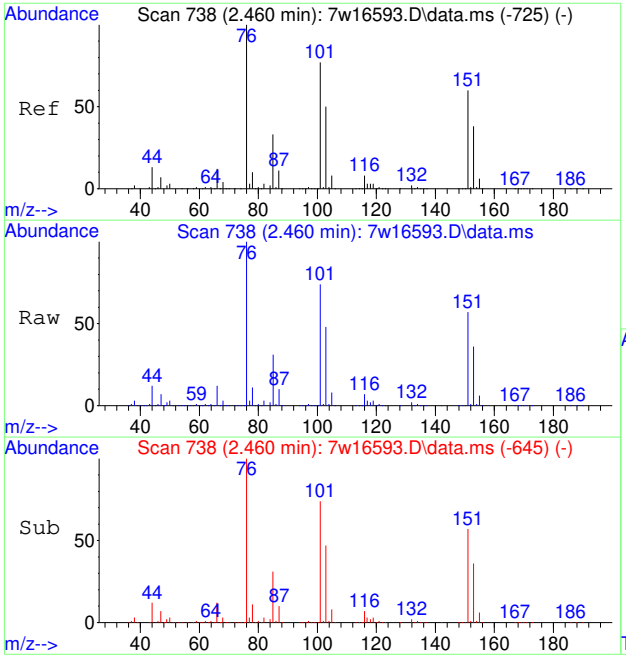


#32
3-CHLOROPROPENE
Concen: 50.05 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 282447

Ion	Ratio	Lower	Upper
76	100		
41	275.4	202.6	376.2
39	167.8	125.8	233.6
78	32.4	23.1	42.9

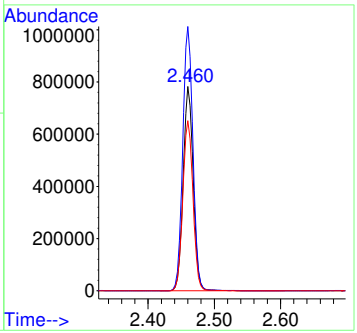


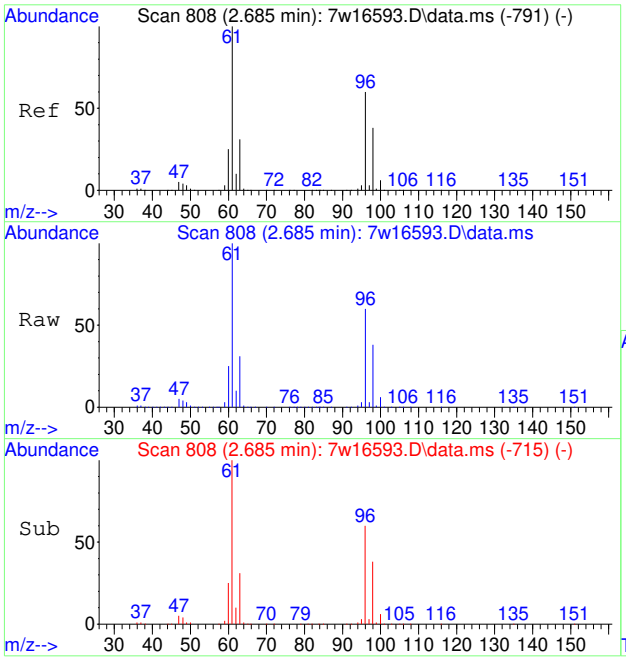


#33
FREON 113
Concen: 52.05 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:151 Resp: 827135

Ion	Ratio	Lower	Upper
151	100		
101	131.1	93.1	172.9
103	84.6	60.1	111.5

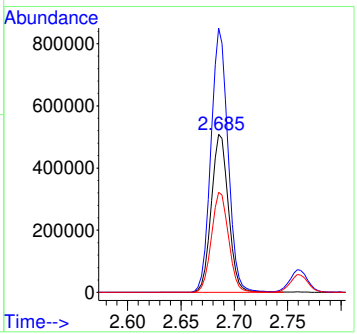


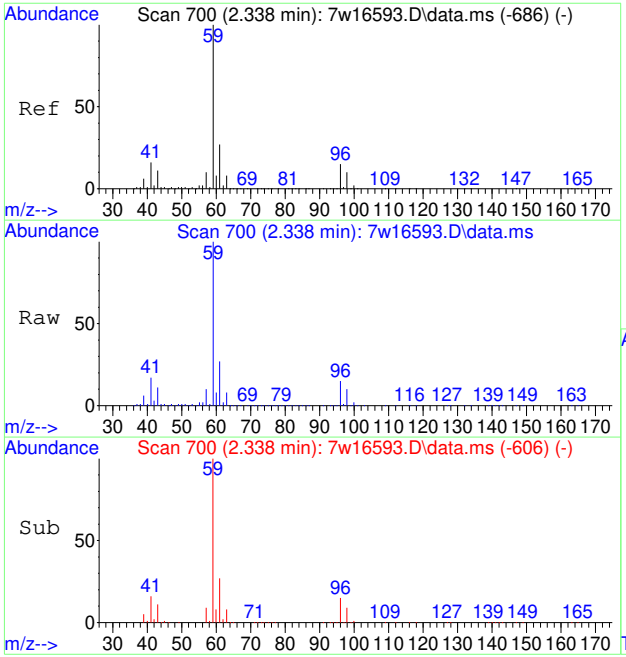


#34
TRANS-1,2-DICHLOROETHENE
Concen: 48.66 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 567495

Ion	Ratio	Lower	Upper
96	100		
61	165.8	119.6	222.0
98	63.4	44.9	83.5

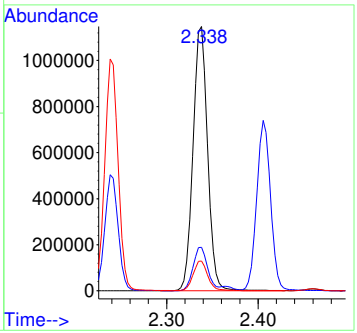


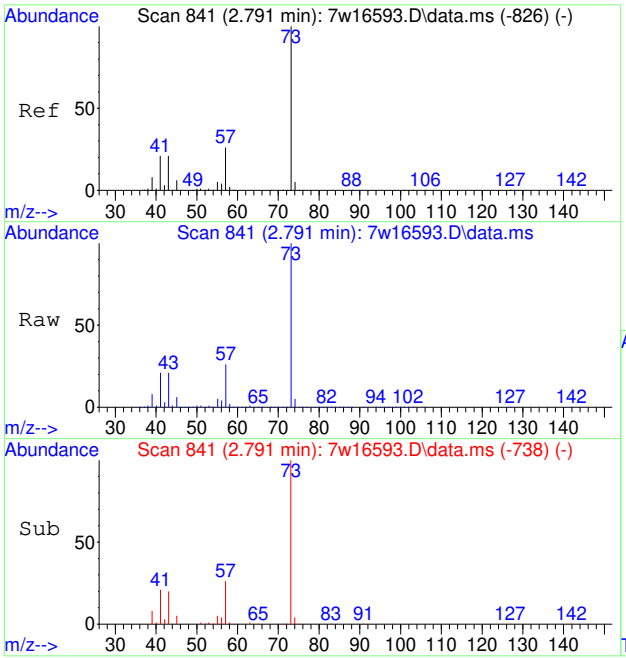


#35
TERTIARY BUTYL ALCOHOL
Concen: 42.60 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 1271463

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.3	8.0	14.8

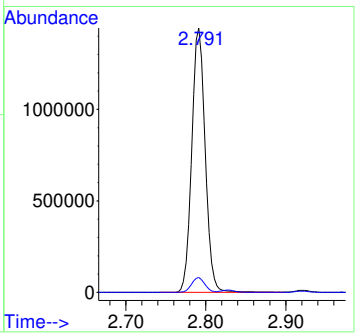


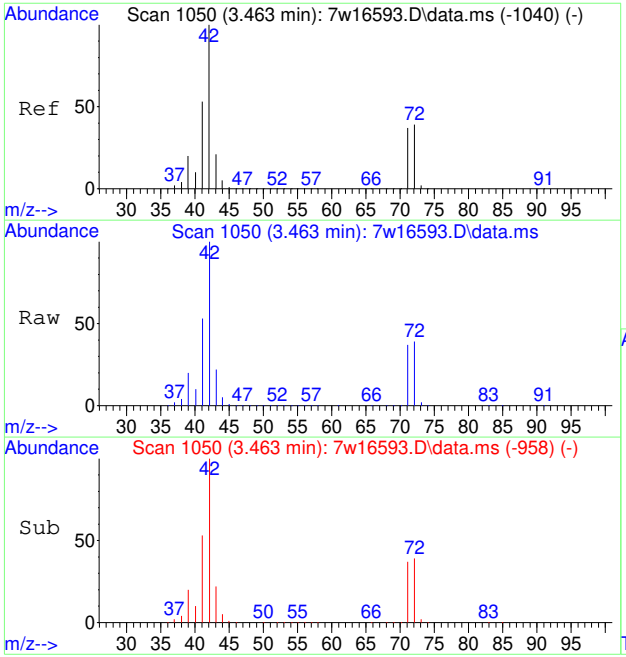


#36
METHYL TERTIARY BUTYL ETHER
Concen: 50.99 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 73 Resp: 1685636

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

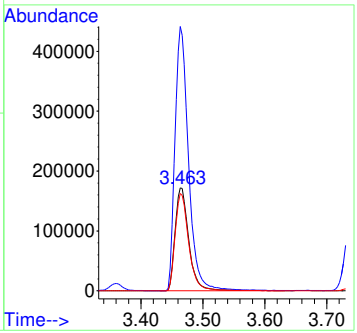


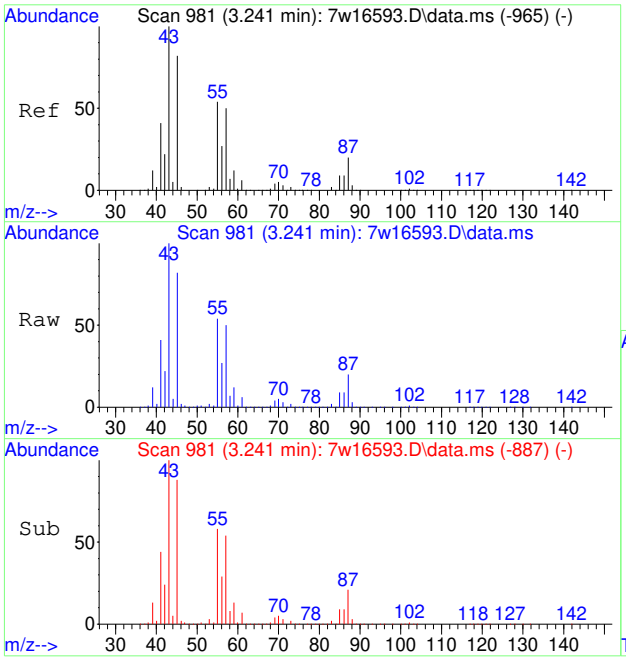


#37
TETRAHYDROFURAN
Concen: 49.92 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 264475

Ion	Ratio	Lower	Upper
72	100		
42	253.2	180.3	334.8
71	93.9	65.8	122.2

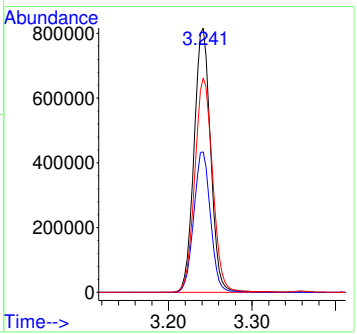


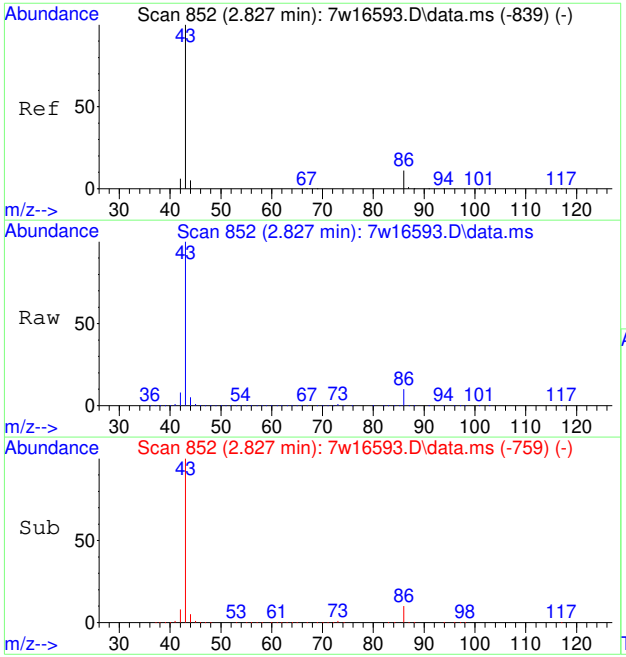


#38
HEXANE
Concen: 50.43 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1126153

Ion	Ratio	Lower	Upper
57	100		
56	53.9	38.0	70.6
41	87.4	65.9	122.5

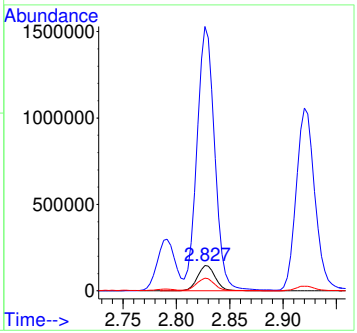


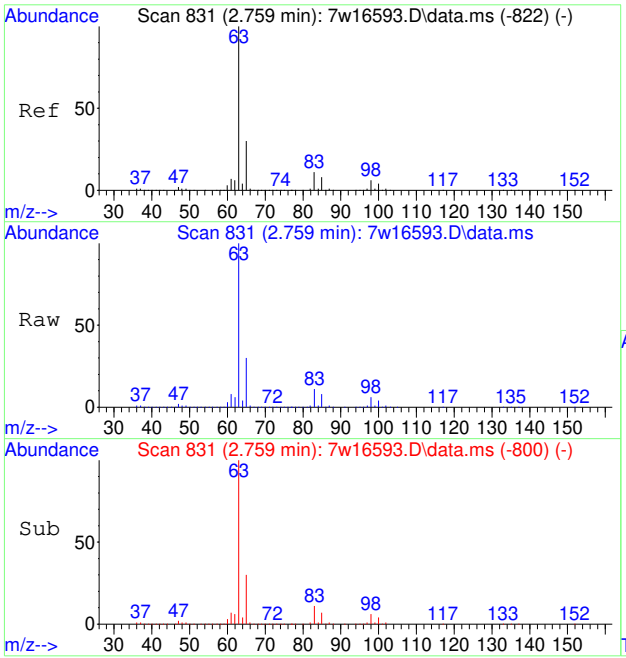


#39
VINYL ACETATE
Concen: 54.22 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 86 Resp: 168950

Ion	Ratio	Lower	Upper
86	100		
43	1048.9	758.7	1408.9
44	50.4	39.5	73.3

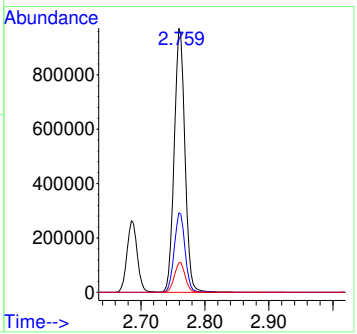


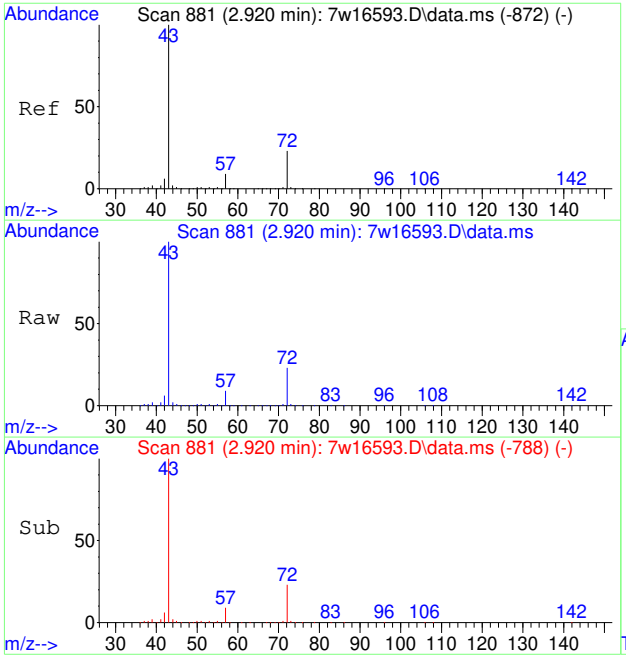


#40
1,1-DICHLOROETHANE
Concen: 50.17 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 1126676

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.4	39.8
83	11.6	8.3	15.5

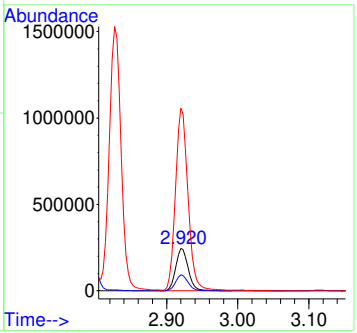


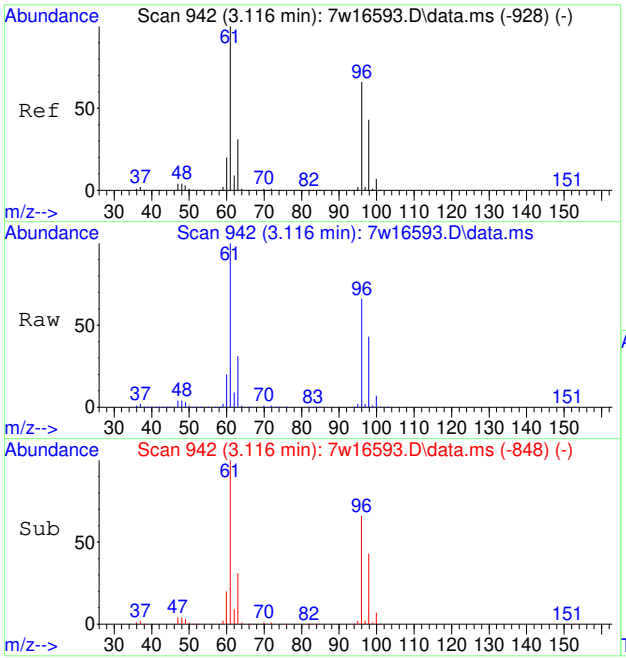


#41
METHYL ETHYL KETONE
Concen: 49.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 301446

Ion	Ratio	Lower	Upper
72	100		
57	37.5	26.9	49.9
43	433.3	309.4	574.6

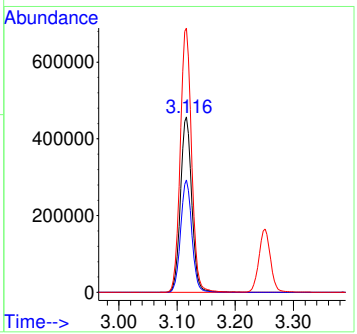


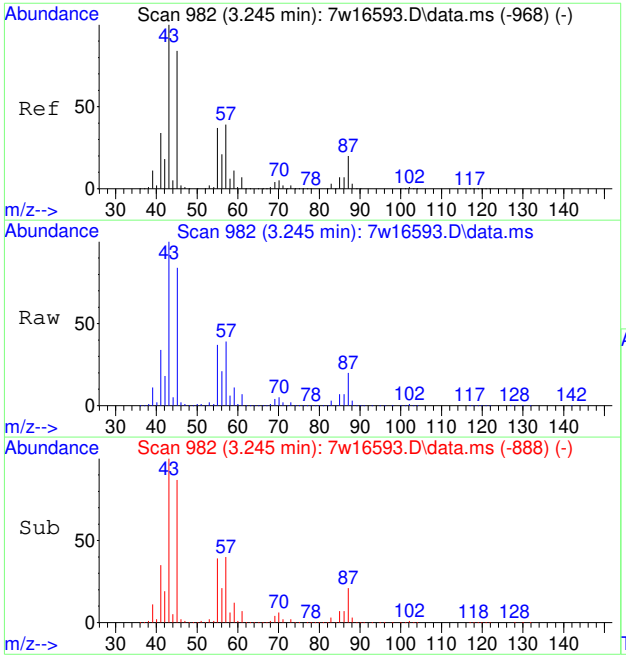


#42
CIS-1,2-DICHLOROETHENE
Concen: 51.36 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 616786

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	151.0	107.3	199.3

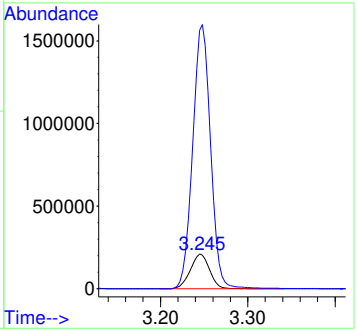


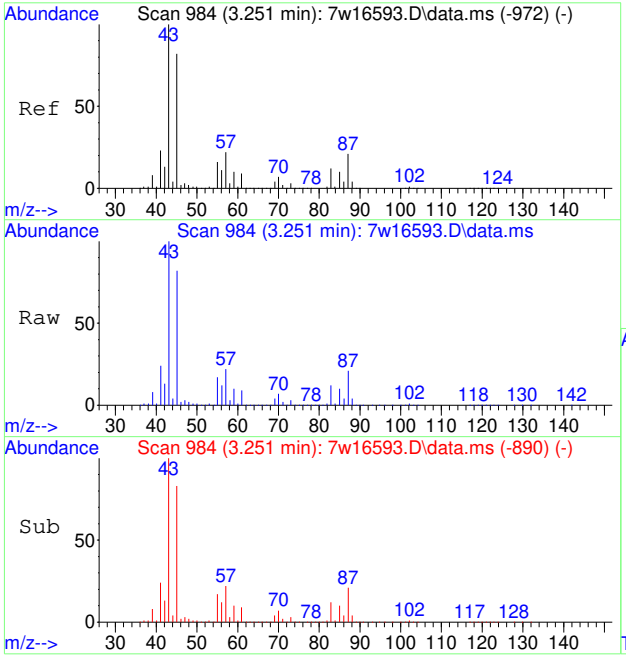


#43
DIISOPROPYL ETHER
Concen: 51.01 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 322160

Ion	Ratio	Lower	Upper
59	100		
45	709.9	517.6	961.2

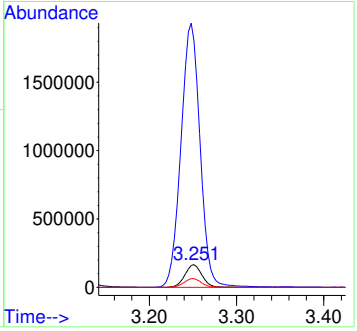


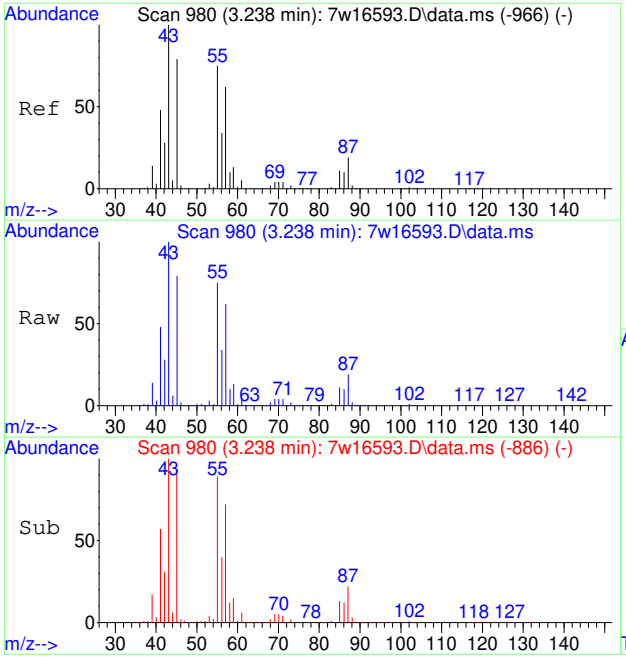


#44
ETHYL ACETATE
Concen: 54.48 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 61 Resp: 229745

Ion	Ratio	Lower	Upper
61	100		
43	1283.3	955.4	1774.4
88	40.0	27.6	51.2

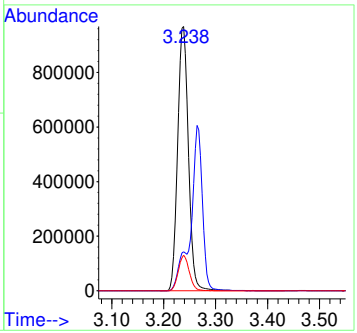


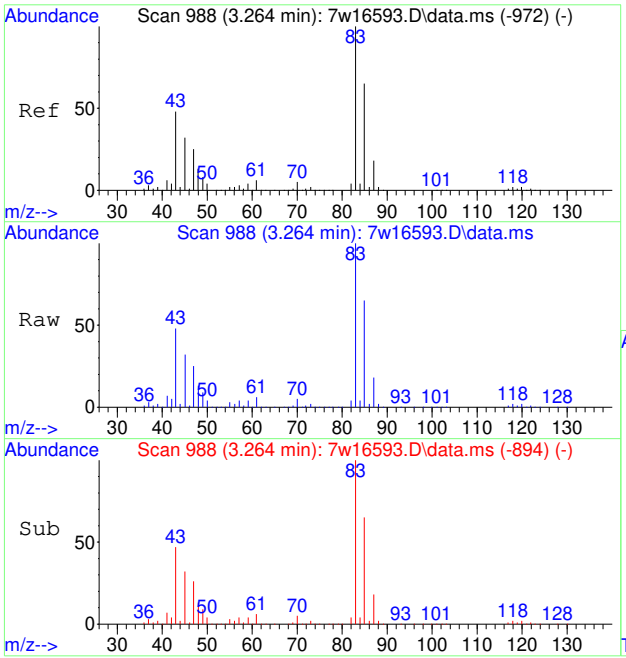


#45
METHYL ACRYLATE
Concen: 51.53 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1386411

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

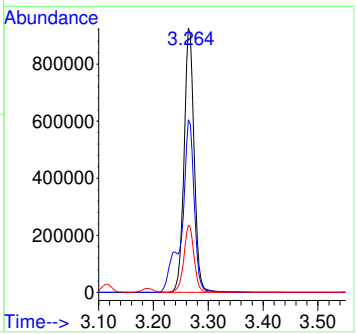


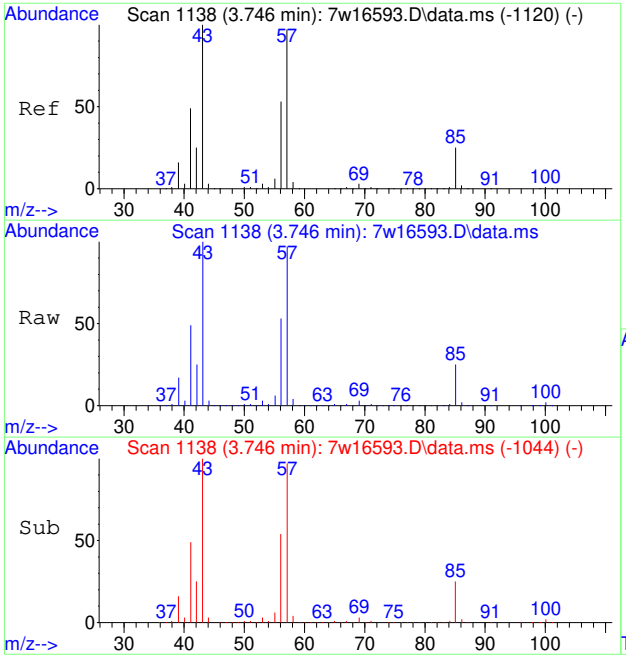


#46
CHLOROFORM
Concen: 50.69 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1180563

Ion	Ratio	Lower	Upper
83	100		
85	81.2	56.0	104.0
47	25.9	19.0	35.4

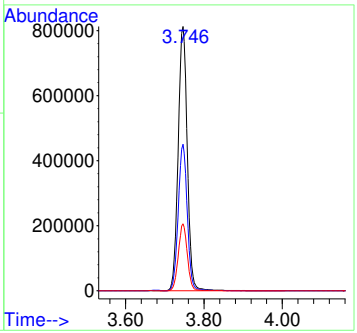


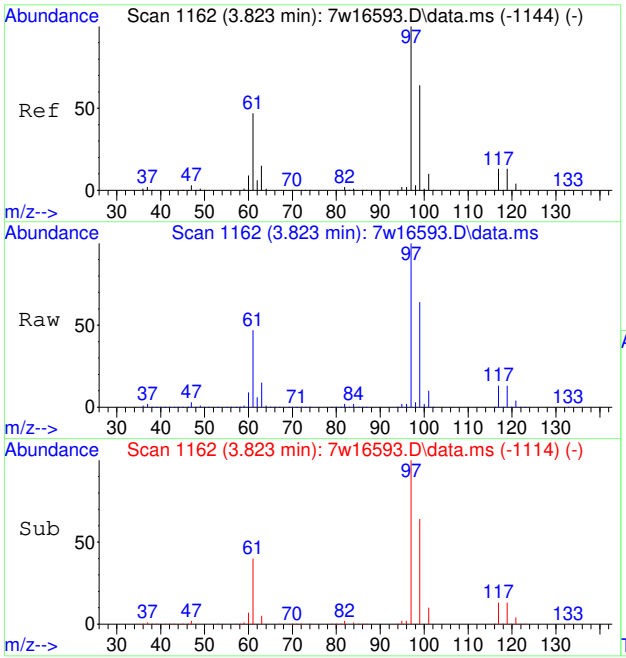


#47
2,4-DIMETHYLPENTANE
Concen: 52.75 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1310498

Ion	Ratio	Lower	Upper
57	100		
56	55.2	38.4	71.2
85	25.0	17.5	32.5

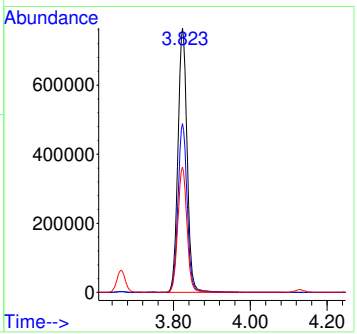


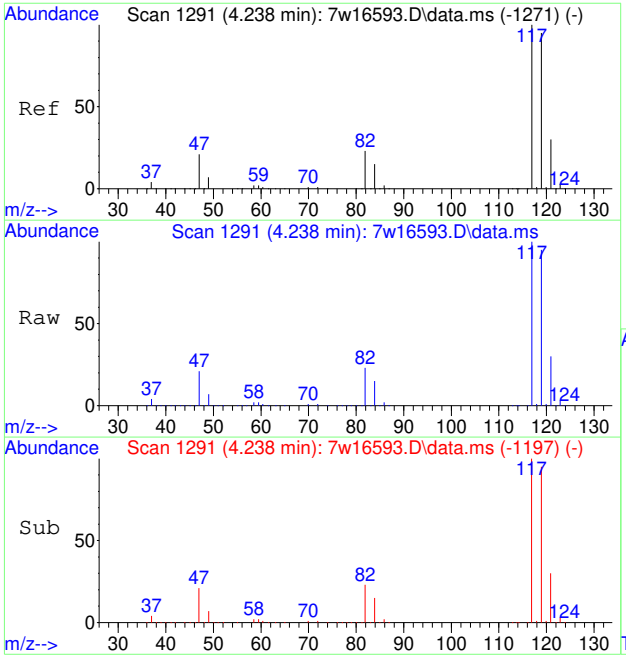


#48
1,1,1-TRICHLOROETHANE
Concen: 51.99 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 97 Resp: 1267195

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	47.8	34.7	64.5

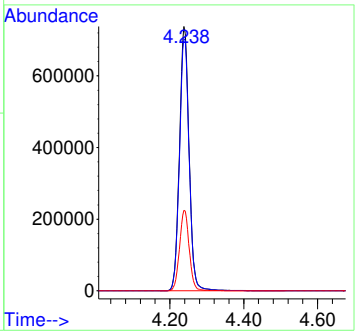


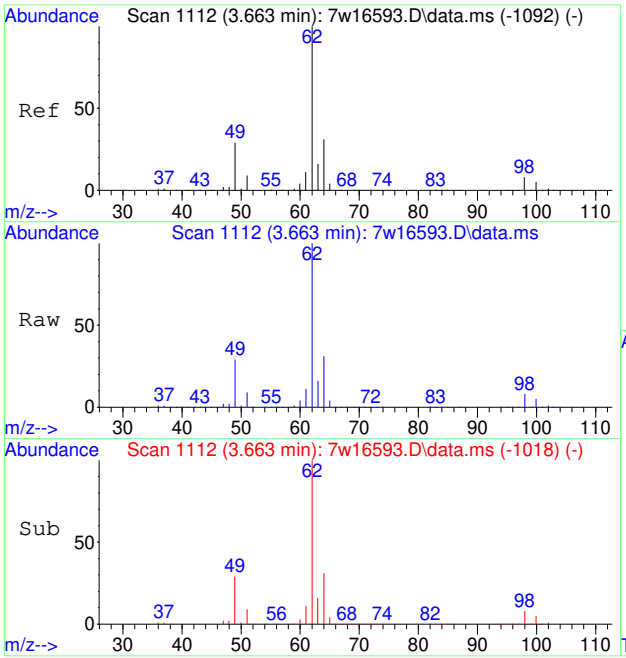


#49
CARBON TETRACHLORIDE
Concen: 53.55 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1338340

Ion	Ratio	Lower	Upper
117	100		
119	96.5	67.5	125.3
121	30.7	21.3	39.5

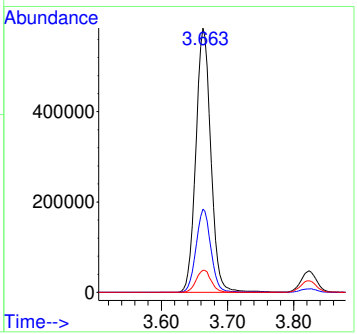


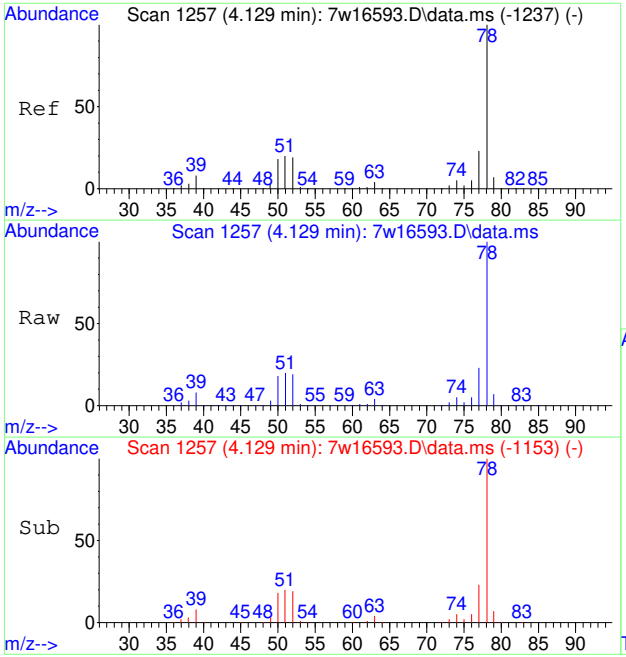


#50
1,2-DICHLOROETHANE
Concen: 51.11 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 918746

Ion	Ratio	Lower	Upper
62	100		
64	31.3	21.8	40.6
98	8.5	5.8	10.8

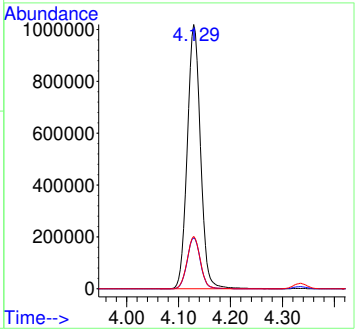


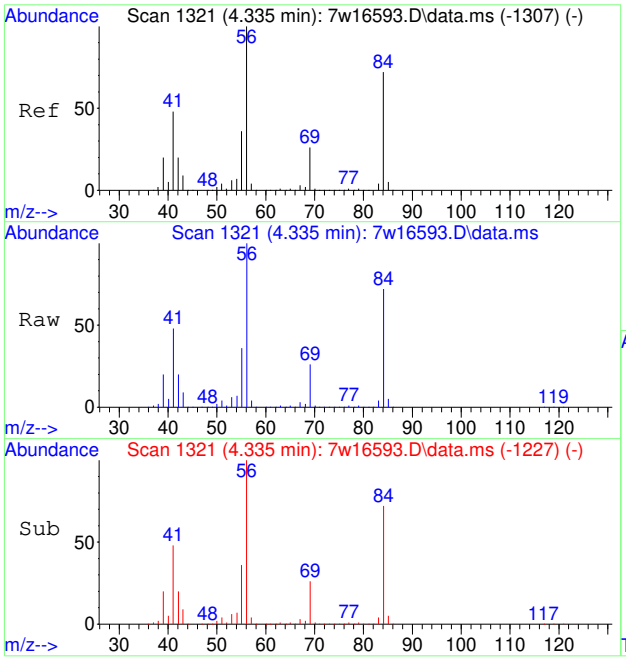


#51
BENZENE
Concen: 50.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 78 Resp: 1795488

Ion	Ratio	Lower	Upper
78	100		
52	19.6	0.0	49.9
51	19.9	0.0	50.6

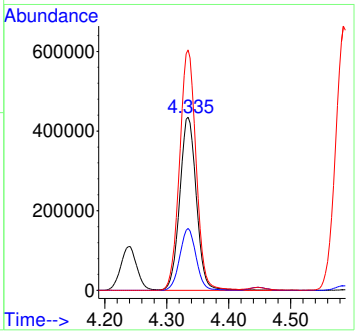


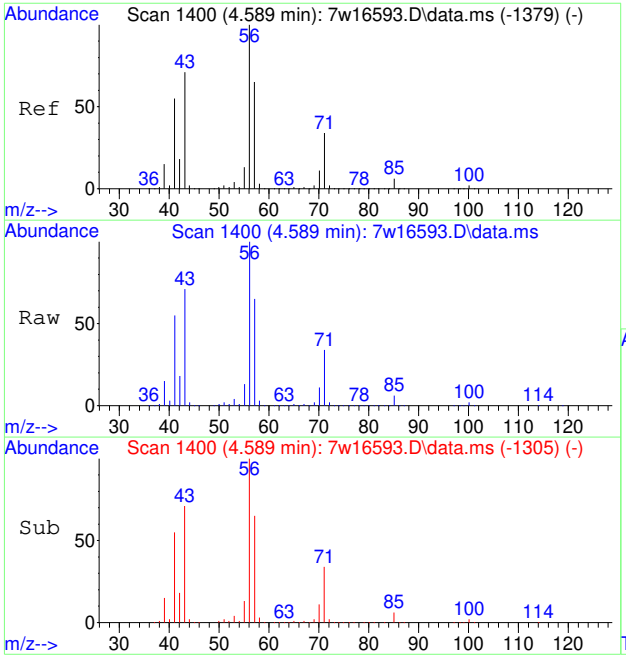


#53
CYCLOHEXANE
Concen: 52.10 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 810673

Ion	Ratio	Lower	Upper
84	100		
69	35.2	24.6	45.6
56	138.1	96.4	179.0

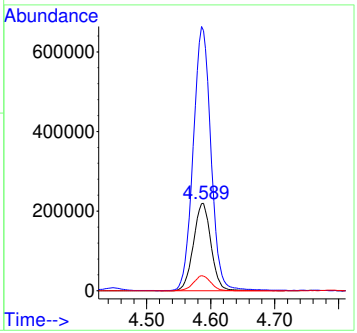


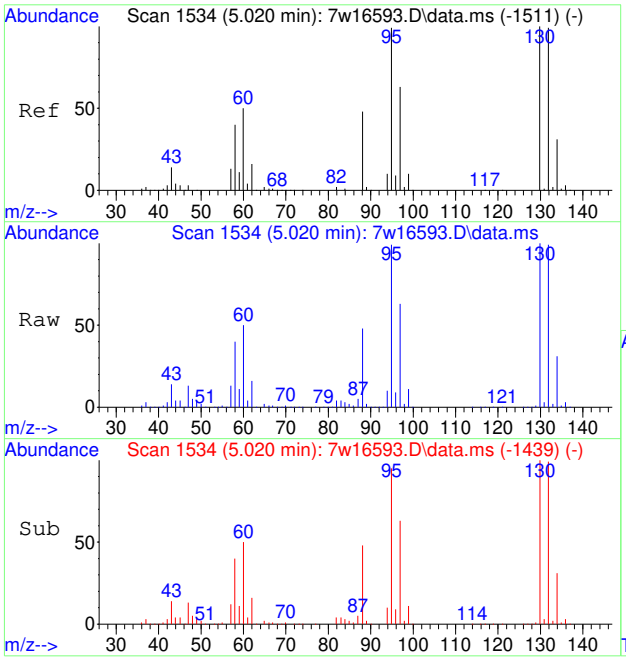


#54
2,3-DIMETHYLPENTANE
Concen: 54.59 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 71 Resp: 421378

Ion	Ratio	Lower	Upper
71	100		
56	303.1	213.2	396.0
85	17.4	12.2	22.6

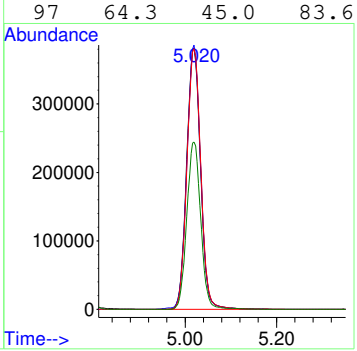


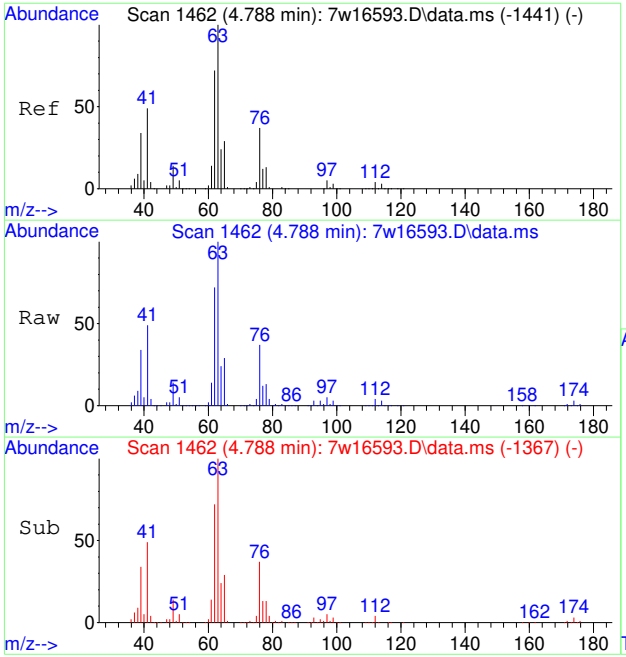


#55
TRICHLOROETHENE
Concen: 48.49 PPBV
RT: 5.020 min Scan# 1534
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 95 Resp: 808299

Ion	Ratio	Lower	Upper
95	100		
130	100.6	69.4	129.0
132	99.7	69.4	128.8
97	64.3	45.0	83.6

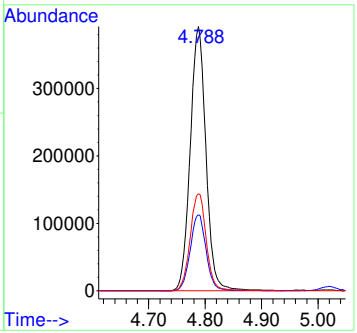


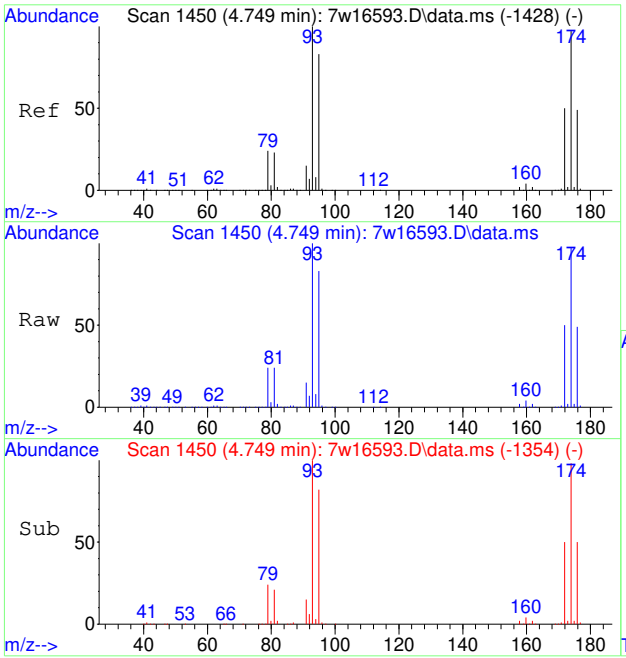


#56
1,2-DICHLOROPROPANE
Concen: 51.61 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 756985

Ion	Ratio	Lower	Upper
63	100		
65	29.2	20.5	38.1
76	37.6	27.1	50.3

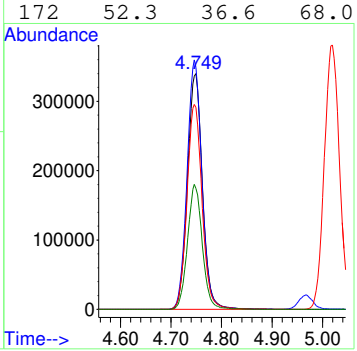


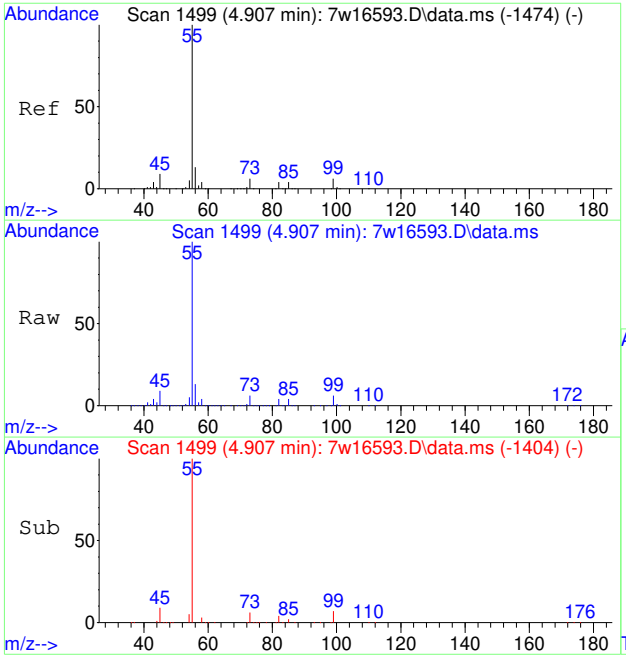


#57
DIBROMOMETHANE
Concen: 49.34 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:174 Resp: 703285

Ion	Ratio	Lower	Upper
174	100		
93	105.1	75.3	139.9
95	87.9	62.4	115.8
172	52.3	36.6	68.0

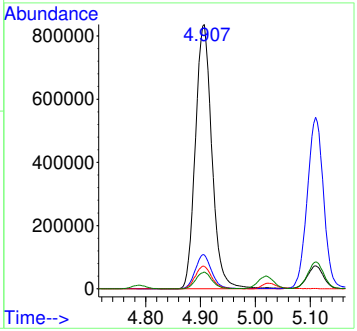


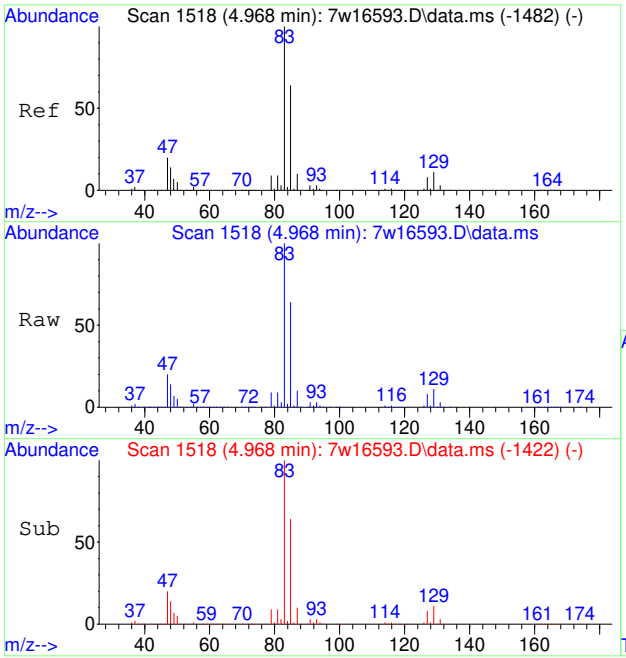


#58
ETHYL ACRYLATE
Concen: 53.53 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1751040

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.6	6.1	11.3
99	6.2	4.3	8.1

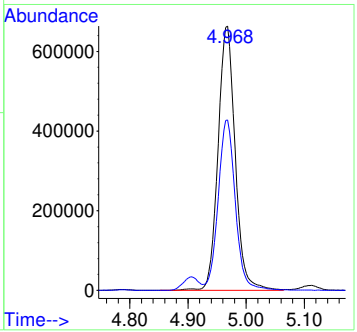


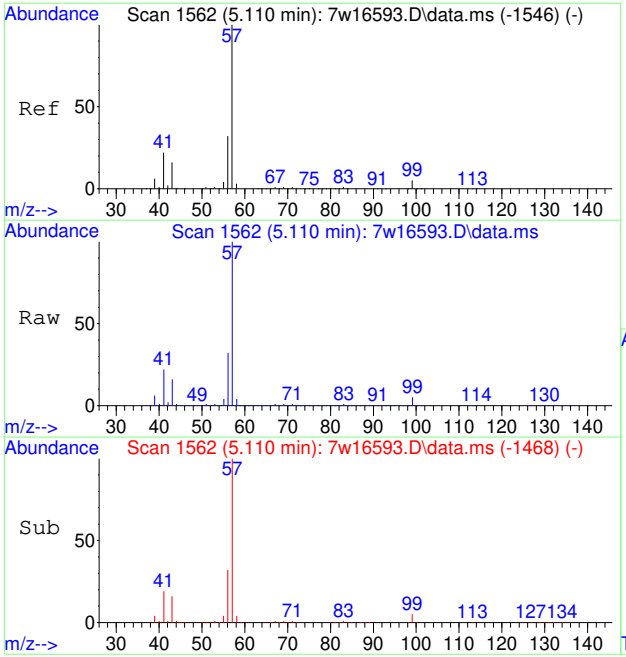


#59
BROMODICHLOROMETHANE
Concen: 51.19 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1363903

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.6	84.8

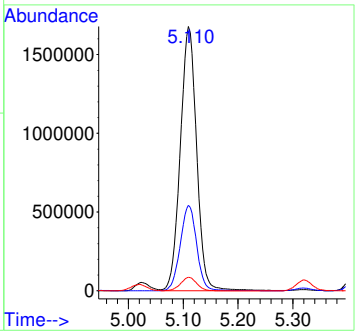


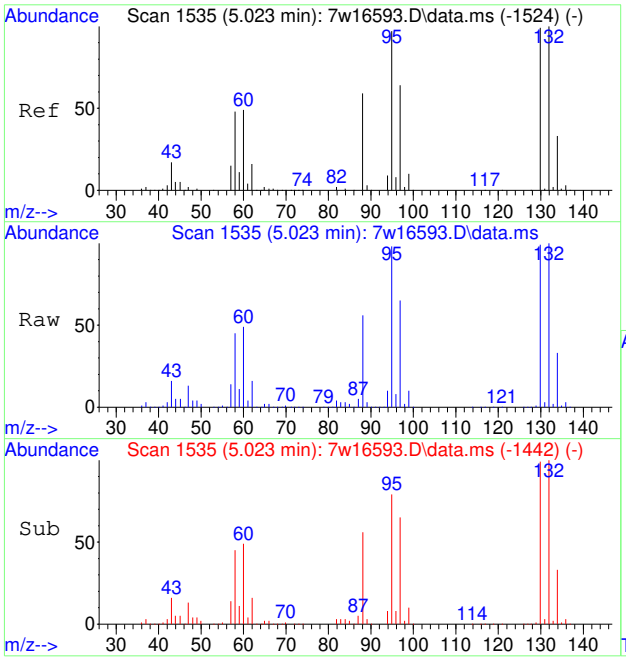


#60
2,2,4-TRIMETHYLPENTANE
Concen: 47.72 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 3474233

Ion	Ratio	Lower	Upper
57	100		
56	32.4	22.6	42.0
99	5.1	3.6	6.8

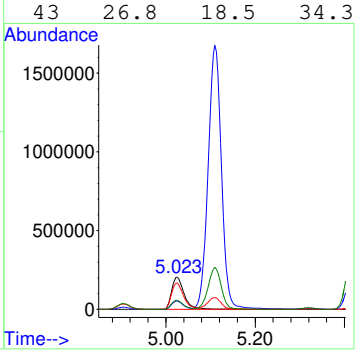


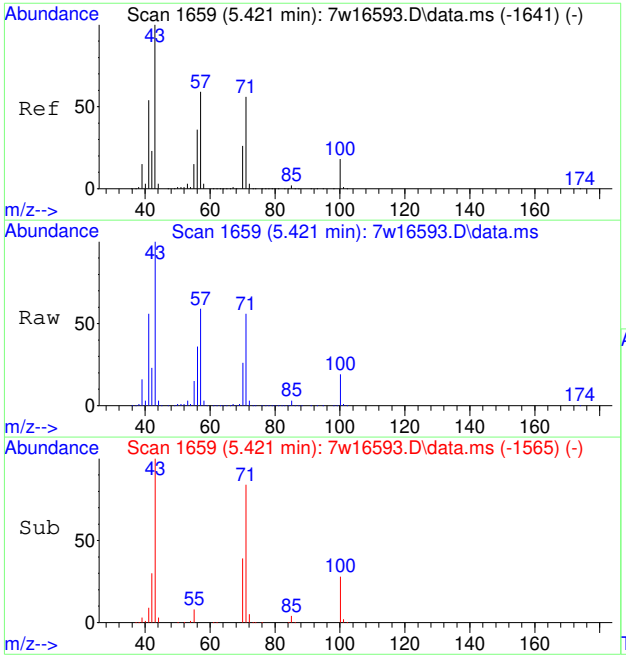


#61
1,4-DIOXANE
Concen: 51.97 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 88 Resp: 402995

Ion	Ratio	Lower	Upper
88	100		
57	24.0	16.7	30.9
58	77.9	52.4	97.4
43	26.8	18.5	34.3

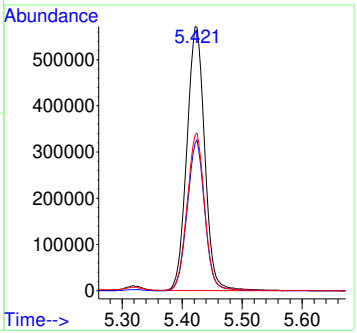


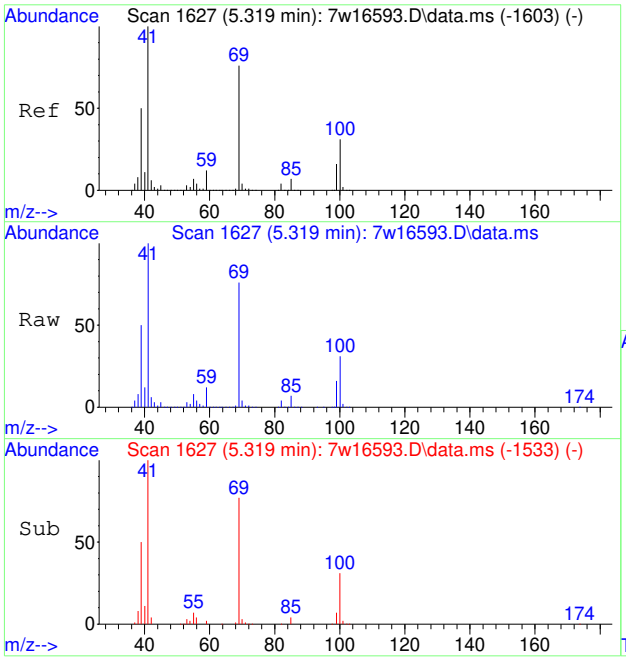


#62
HEPTANE
Concen: 49.34 PPBV
RT: 5.421 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1183014

Ion	Ratio	Lower	Upper
43	100		
71	56.1	38.9	72.2
57	59.0	40.5	75.3

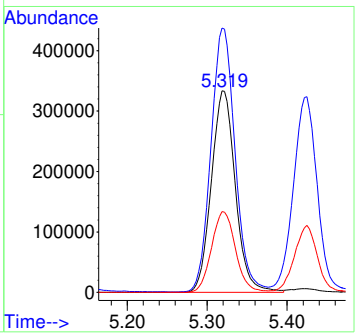


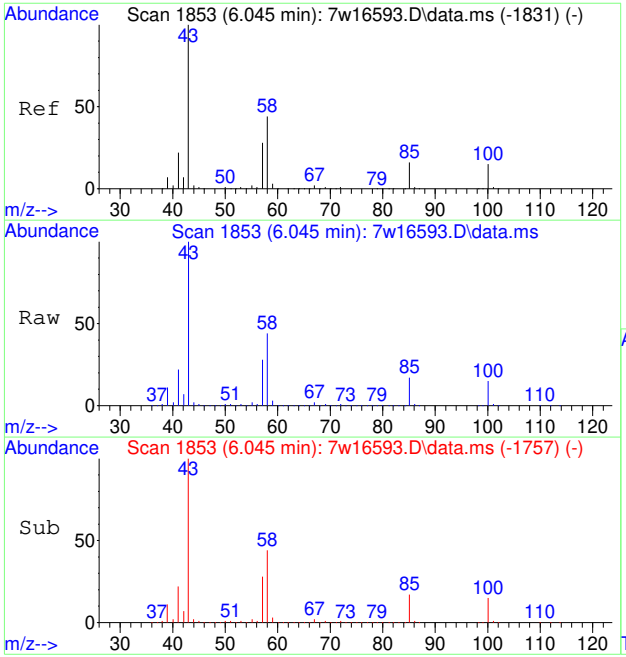


#63
METHYL METHACRYLATE
Concen: 52.38 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 696280

Ion	Ratio	Lower	Upper
69	100		
41	130.9	95.5	177.4
100	40.0	28.1	52.1

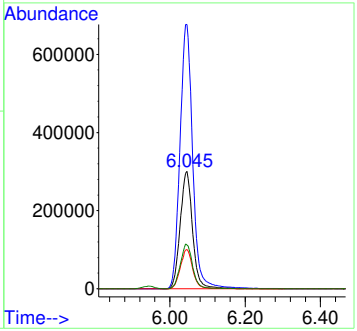


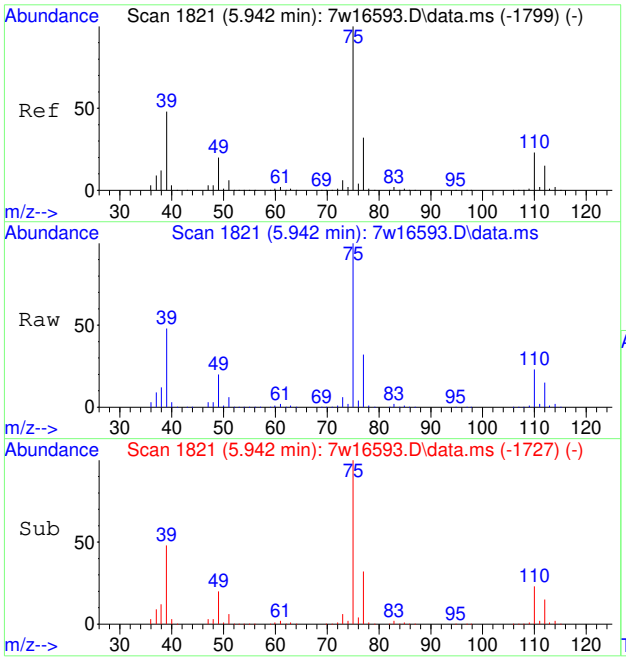


#64
METHYL ISOBUTYL KETONE
Concen: 48.13 PPBV
RT: 6.045 min Scan# 1853
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 692709

Ion	Ratio	Lower	Upper
58	100		
43	229.1	163.8	304.2
100	33.4	23.2	43.2
85	38.0	26.5	49.3

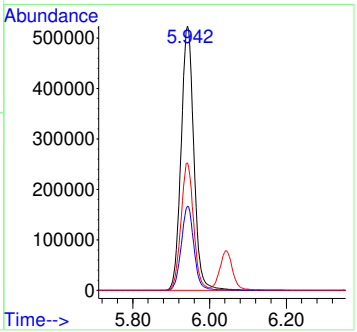


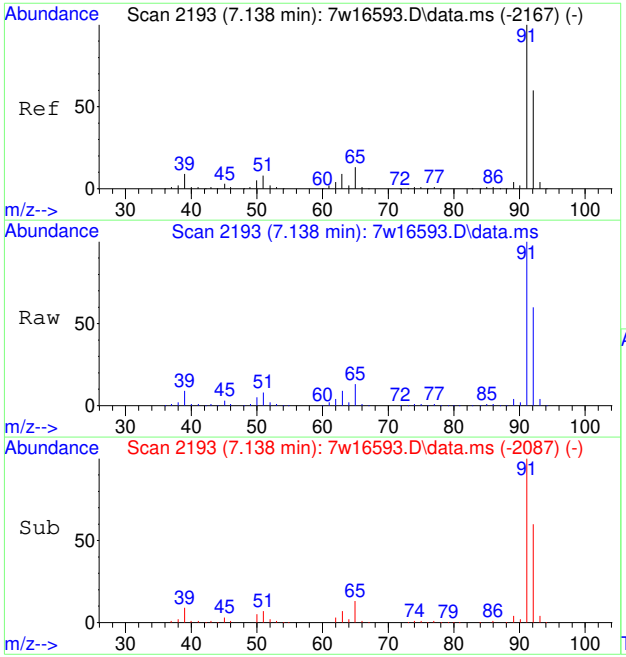


#65
CIS-1,3-DICHLOROPROPENE
Concen: 54.68 PPBV
RT: 5.942 min Scan# 1821
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1209649

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.0	41.0
39	47.8	35.7	66.3

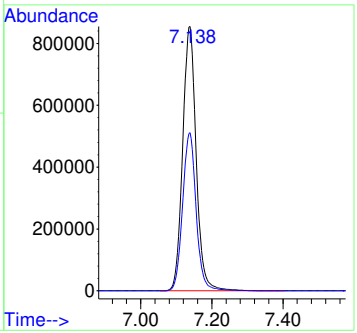


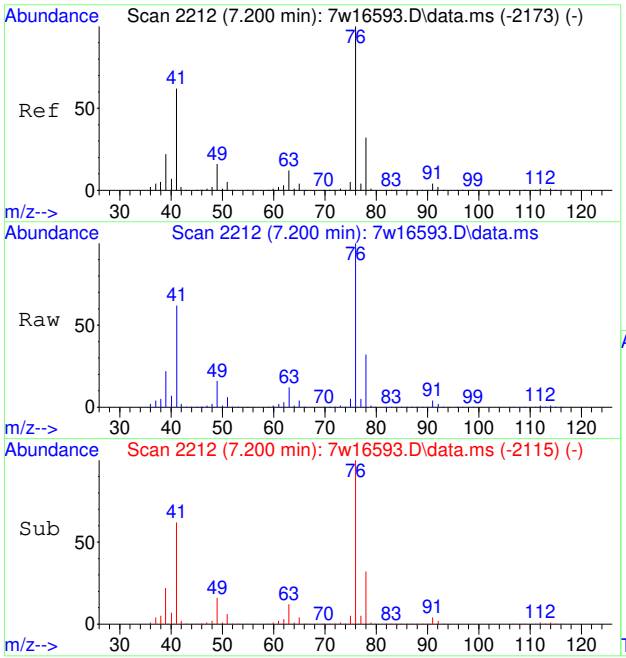


#66
TOLUENE
Concen: 53.54 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2257380

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

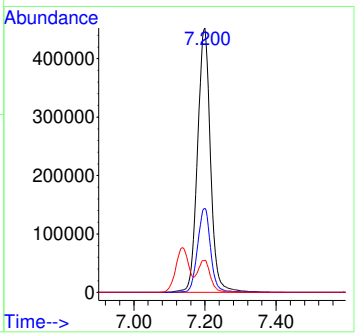


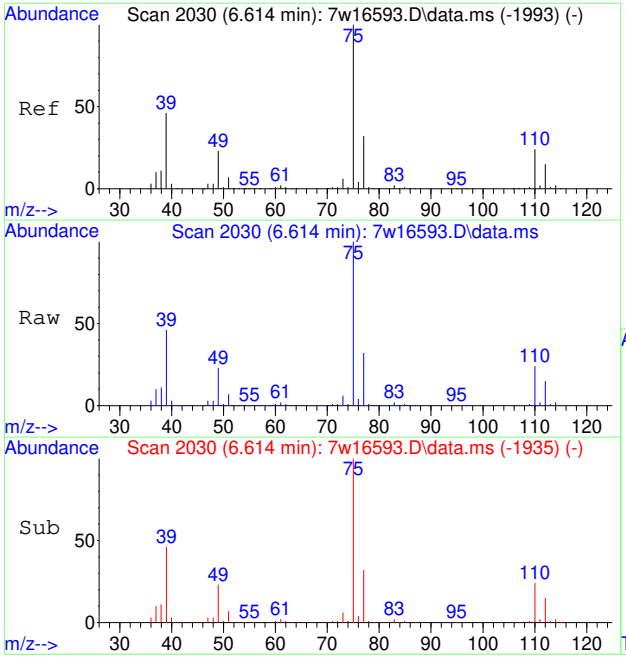


#67
1,3-DICHLOROPROPANE
Concen: 54.57 PPBV
RT: 7.200 min Scan# 2212
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1150031

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	11.7	8.3	15.5

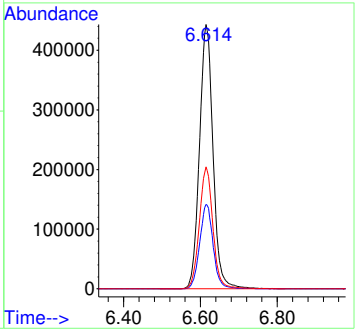


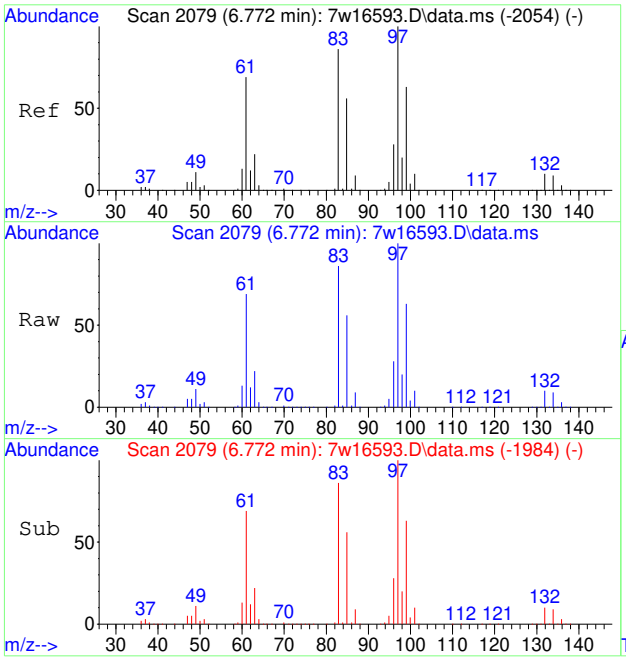


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 55.09 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1086853

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.3	41.5
39	46.3	33.9	63.0

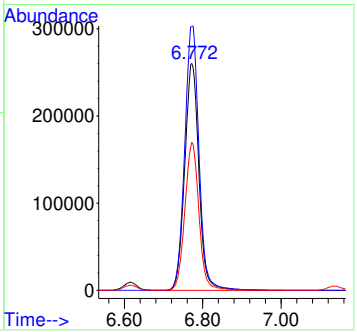


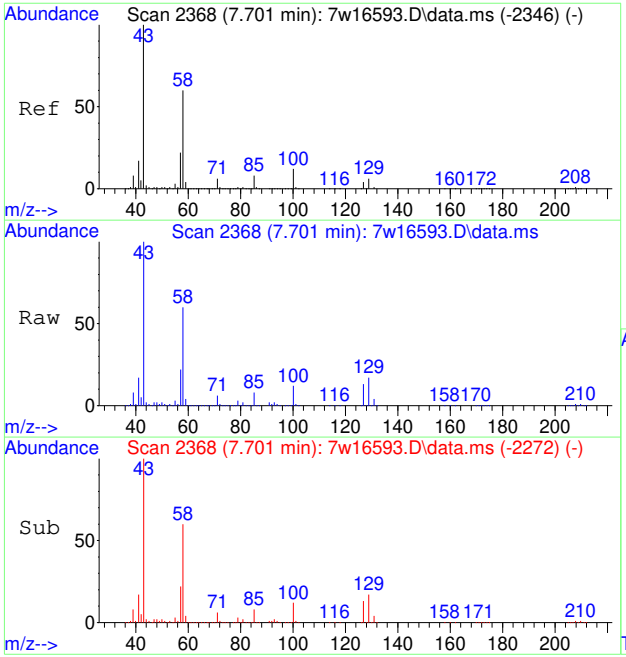


#69
1,1,2-TRICHLOROETHANE
Concen: 55.07 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 657452

Ion	Ratio	Lower	Upper
83	100		
97	117.1	81.2	150.8
85	64.6	45.1	83.7

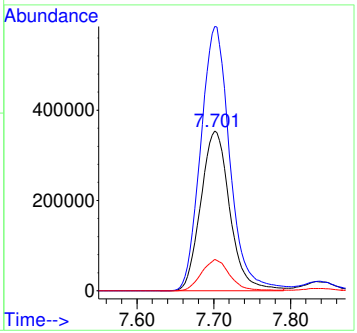


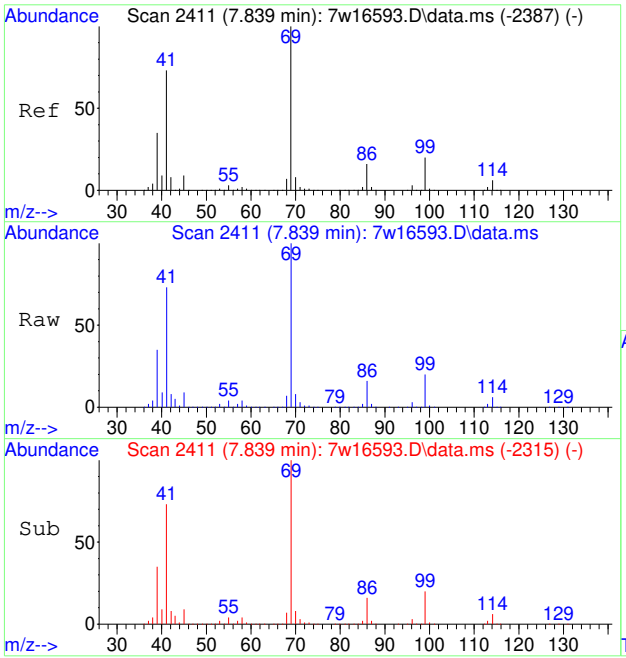


#70
2-HEXANONE
Concen: 45.78 PPBV
RT: 7.701 min Scan# 2368
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 931287

Ion	Ratio	Lower	Upper
58	100		
43	165.4	118.6	220.2
100	19.1	13.0	24.2

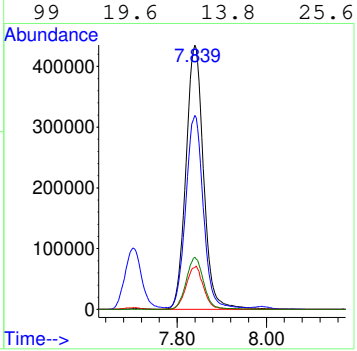


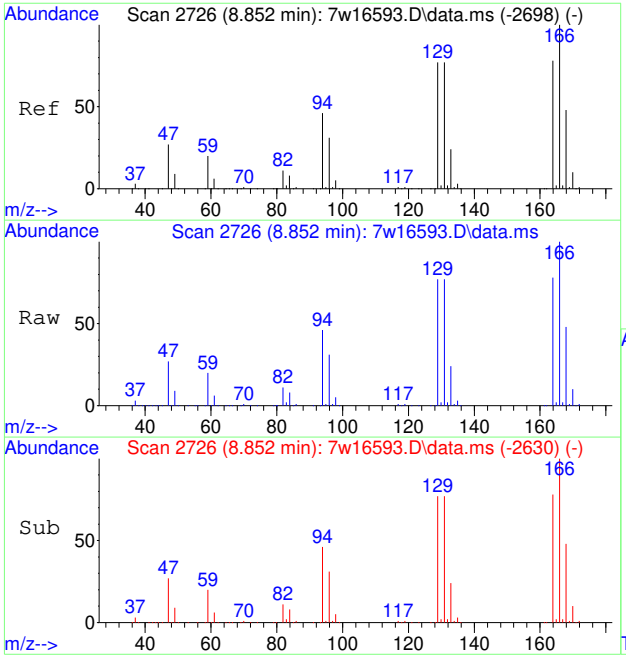


#71
ETHYL METHACRYLATE
Concen: 54.01 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 1191952

Ion	Ratio	Lower	Upper
69	100		
41	73.7	53.6	99.6
86	16.2	11.3	20.9
99	19.6	13.8	25.6

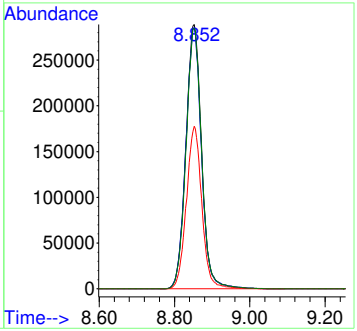


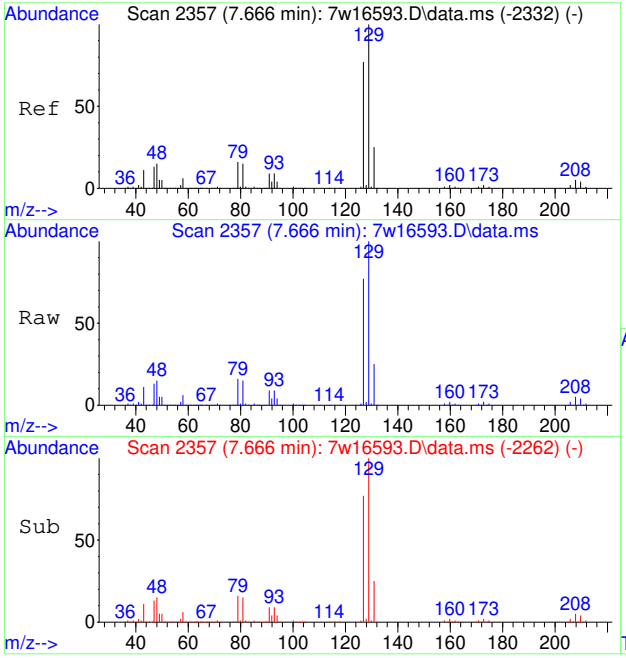


#72
TETRACHLOROETHENE
Concen: 54.58 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:164 Resp: 838148

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.1	69.4	129.0

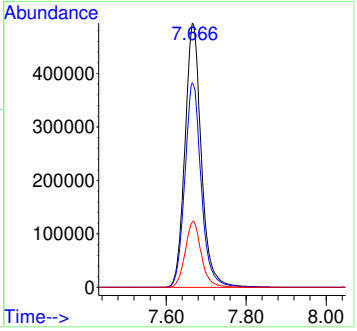


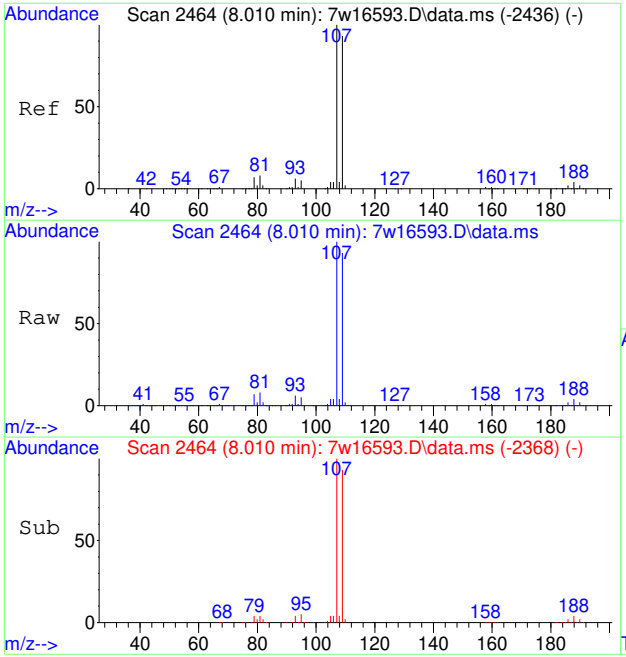


#73
DIBROMOCHLOROMETHANE
Concen: 58.86 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:129 Resp: 1403452

Ion	Ratio	Lower	Upper
129	100		
127	77.8	54.7	101.7
131	24.8	17.4	32.4

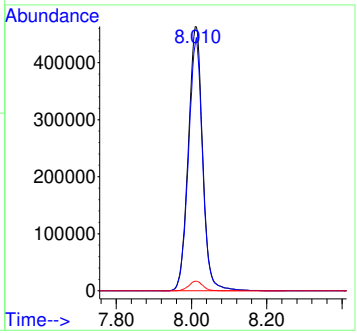


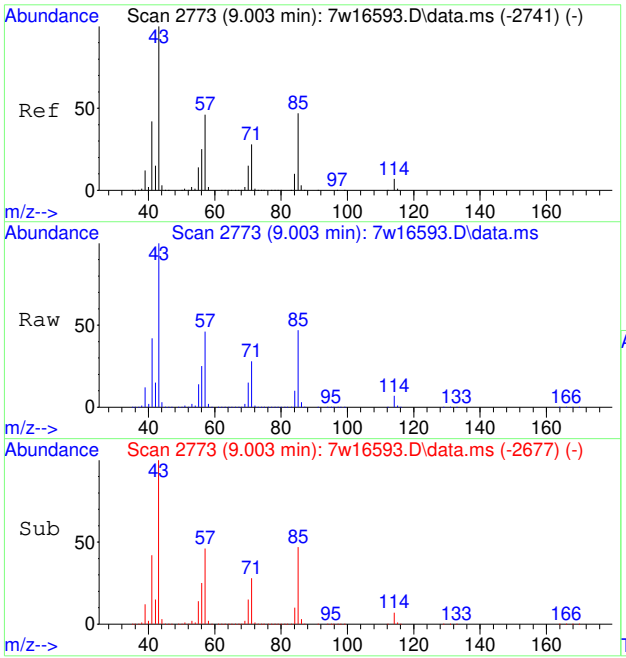


#74
1,2-DIBROMOETHANE
Concen: 56.46 PPBV
RT: 8.010 min Scan# 2464
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:107 Resp: 1223967

Ion	Ratio	Lower	Upper
107	100		
109	94.2	66.1	122.8
188	3.6	2.5	4.6

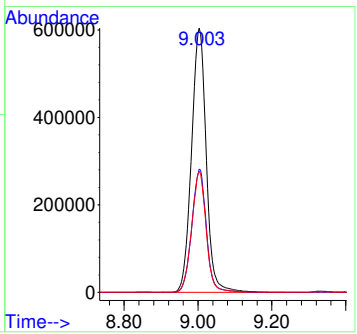


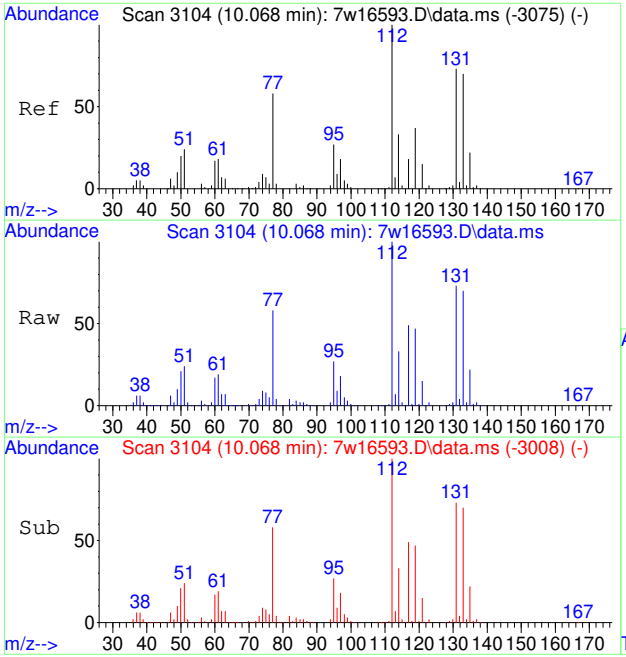


#75
OCTANE
Concen: 52.30 PPBV
RT: 9.003 min Scan# 2773
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1670114

Ion	Ratio	Lower	Upper
43	100		
85	46.2	31.8	59.0
57	45.2	31.4	58.2

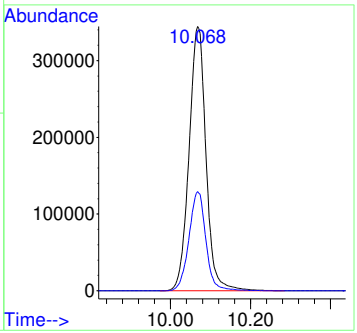


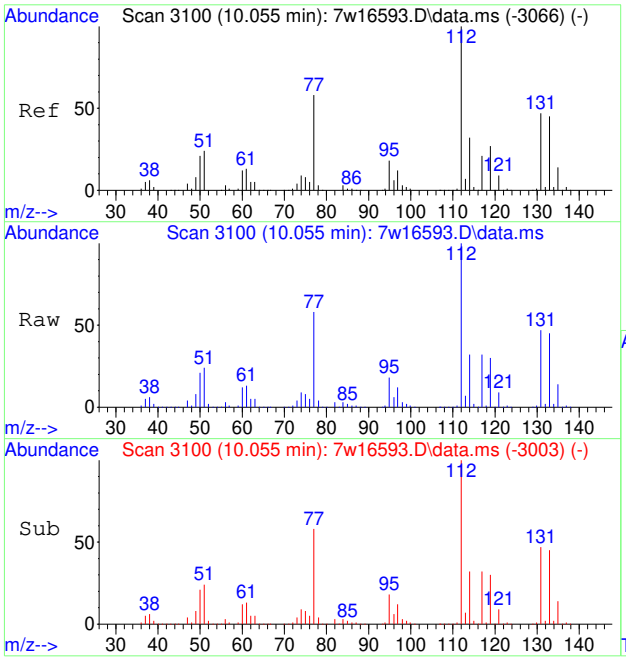


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 57.95 PPBV
RT: 10.068 min Scan# 3104
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:131 Resp: 1014574

Ion	Ratio	Lower	Upper
131	100		
95	37.6	26.5	49.1

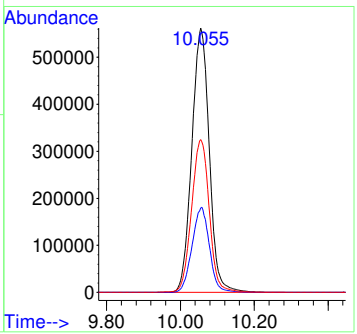


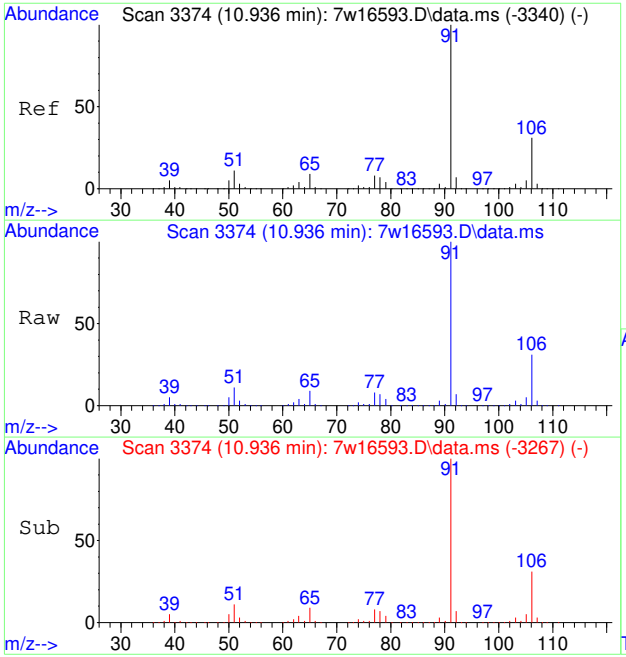


#78
CHLOROBENZENE
Concen: 54.82 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:112 Resp: 1847440

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.5	41.7
77	58.8	42.1	78.1

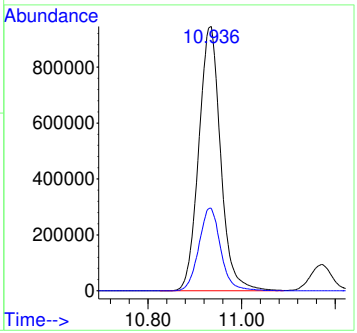


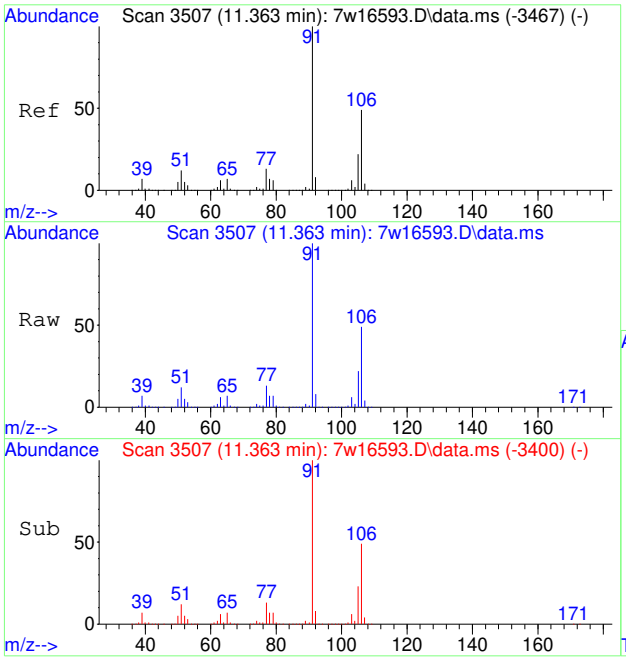


#79
ETHYLBENZENE
Concen: 55.49 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 3062670

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

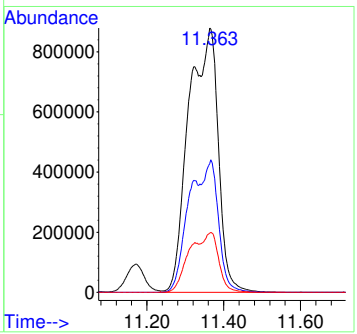


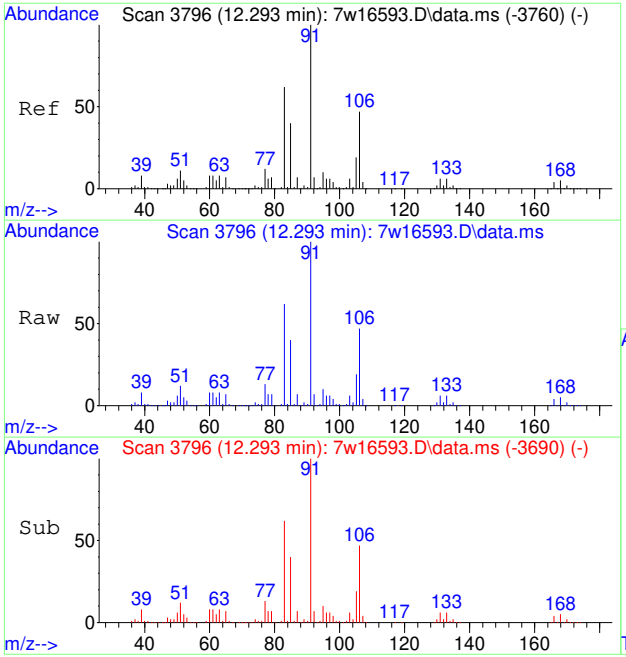


#80
M,P-XYLENE
Concen: 104.27 PPBV
RT: 11.363 min Scan# 3507
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 4688509

Ion	Ratio	Lower	Upper
91	100		
106	27.6	0.0	56.1
105	22.5	0.0	42.1

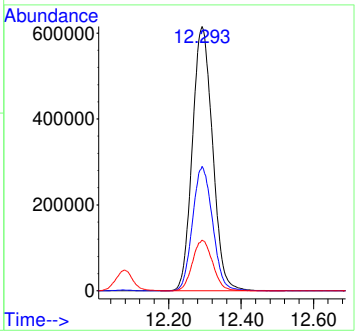


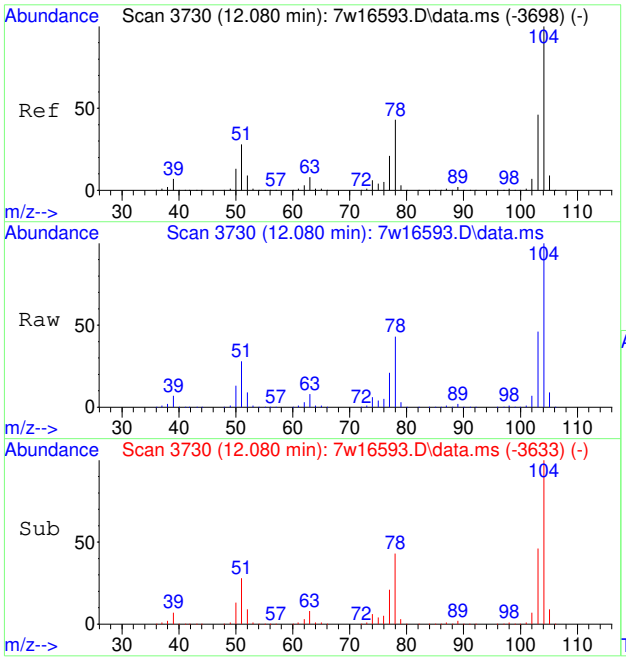


#81
O-XYLENE
Concen: 54.76 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2383048

Ion	Ratio	Lower	Upper
91	100		
106	47.0	31.8	59.0
105	19.2	13.0	24.2

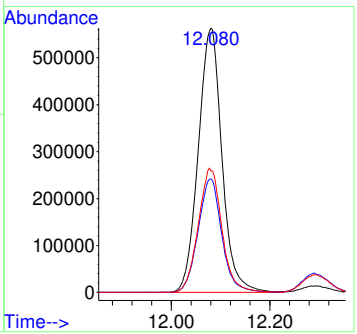


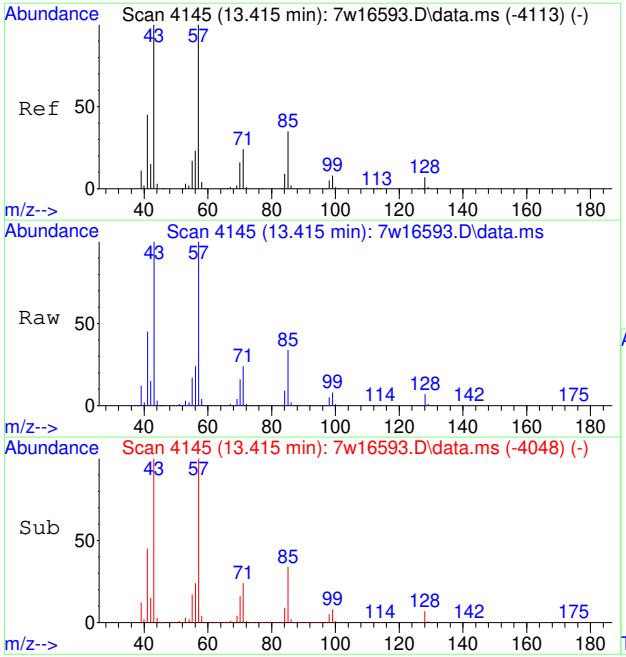


#82
STYRENE
Concen: 58.71 PPBV
RT: 12.080 min Scan# 3730
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:104 Resp: 1884473

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

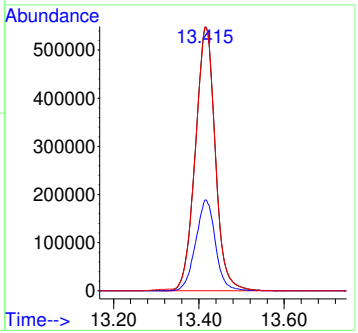


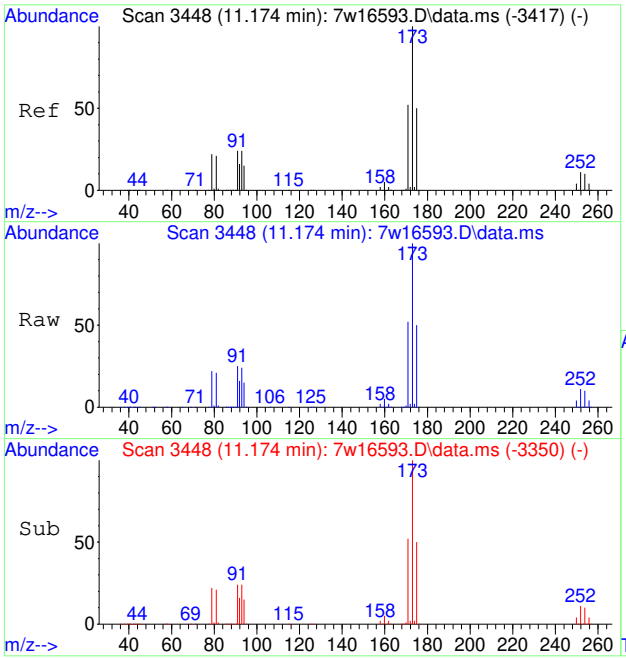


#83
NONANE
Concen: 52.08 PPBV
RT: 13.415 min Scan# 4145
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1775546

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.5	69.2	128.6

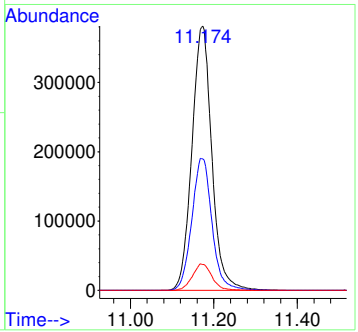


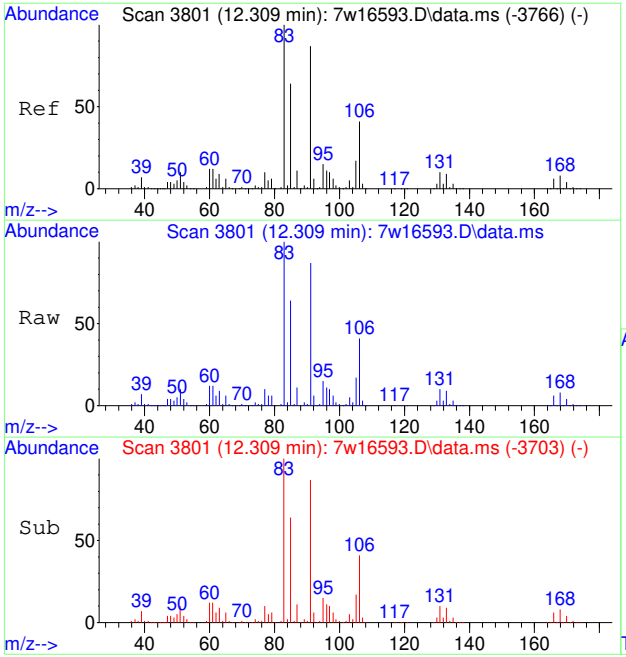


#84
BROMOFORM
Concen: 63.02 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:173 Resp: 1265430

Ion	Ratio	Lower	Upper
173	100		
175	50.6	35.1	65.1
254	10.0	6.7	12.5

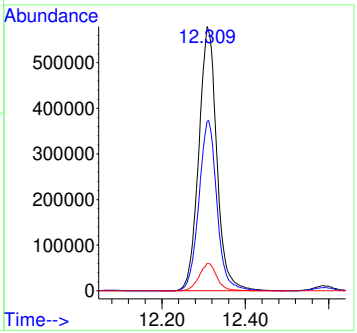


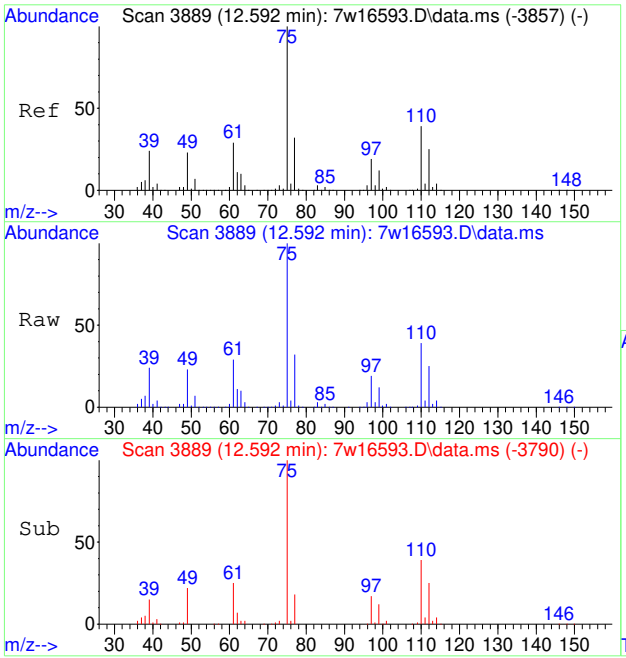


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 55.83 PPBV
RT: 12.309 min Scan# 3801
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1733579

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.3	7.3	13.5

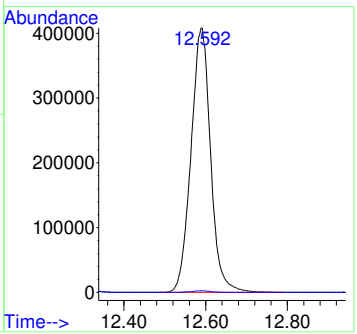


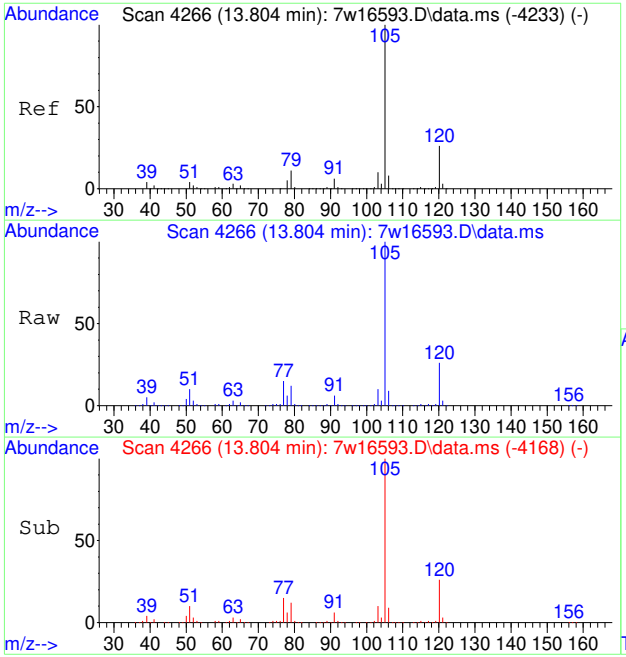


#86
1,2,3-TRICHLOROPROPANE
Concen: 55.93 PPBV
RT: 12.592 min Scan# 3889
Delta R.T. 0.019 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1360230

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

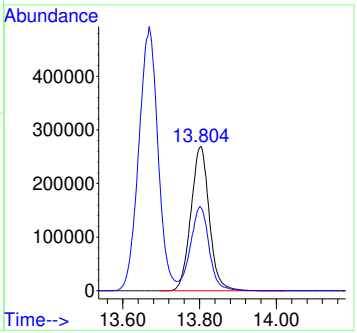


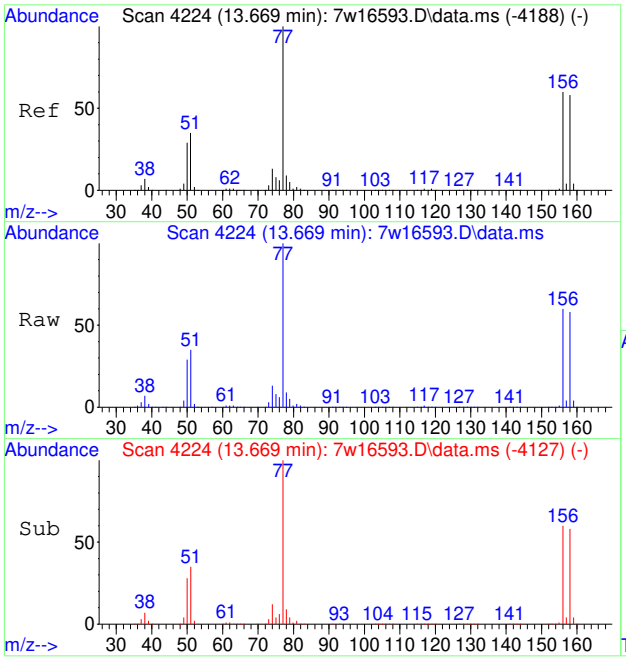


#88
ISOPROPYLBENZENE
Concen: 54.23 PPBV
RT: 13.804 min Scan# 4266
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 894931

Ion	Ratio	Lower	Upper
120	100		
77	59.5	42.5	78.9

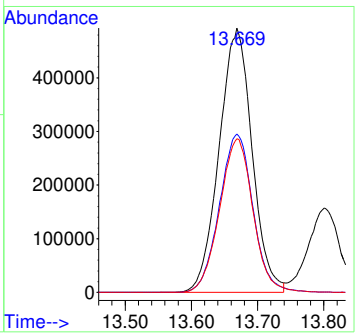


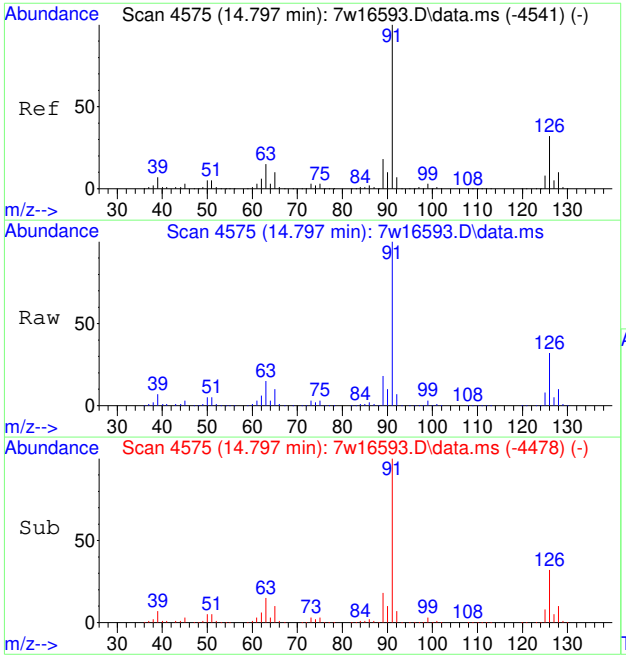


#89
BROMOBENZENE
Concen: 53.56 PPBV
RT: 13.669 min Scan# 4224
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 77 Resp: 1702334

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	59.1	40.9	76.0

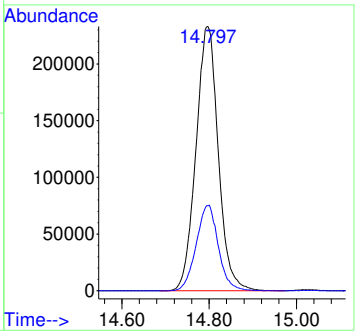


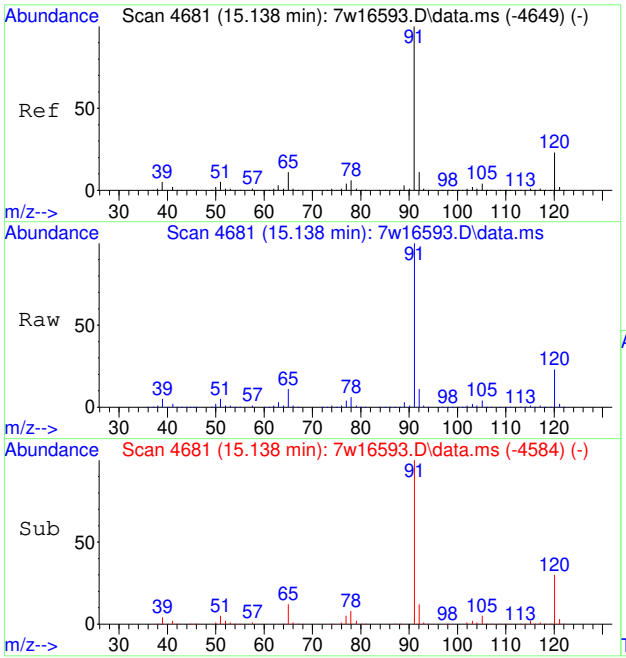


#90
2-CHLOROTOLUENE
Concen: 54.34 PPBV
RT: 14.797 min Scan# 4575
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:126 Resp: 829710

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

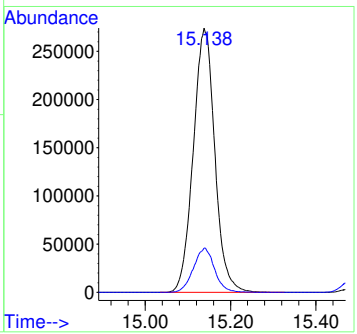


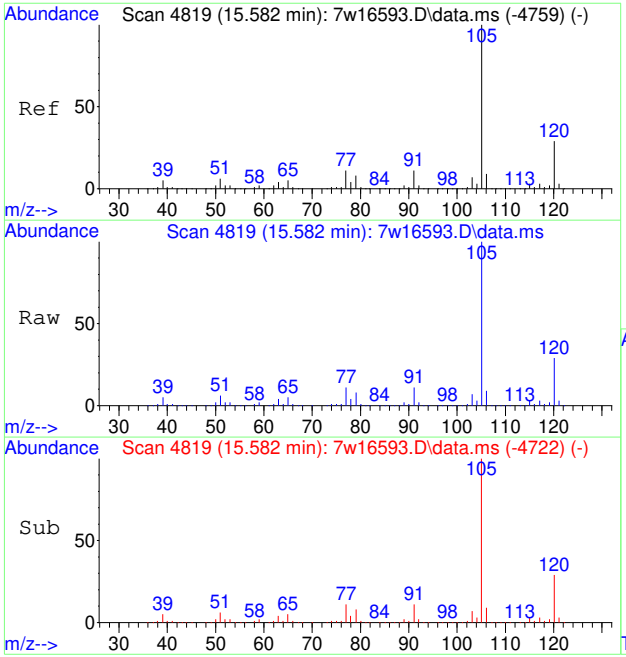


#91
N-PROPYLBENZENE
Concen: 55.42 PPBV
RT: 15.138 min Scan# 4681
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 961239

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

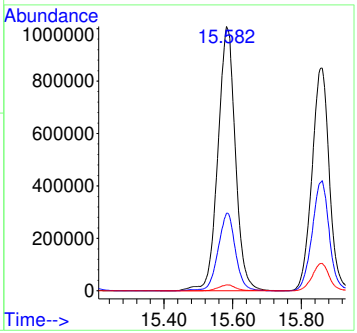


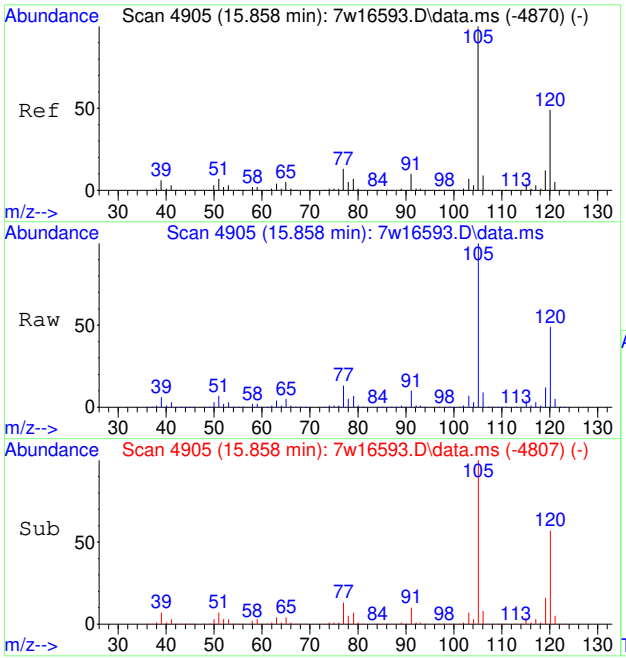


#92
4-ETHYLTOLUENE
Concen: 55.47 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3566781

Ion	Ratio	Lower	Upper
105	100		
120	29.3	20.7	38.5
119	2.2	1.6	3.0

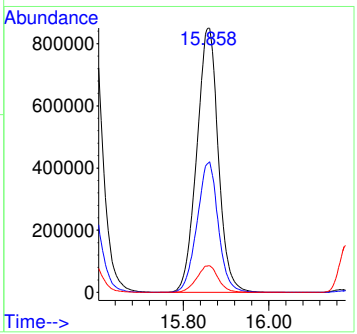


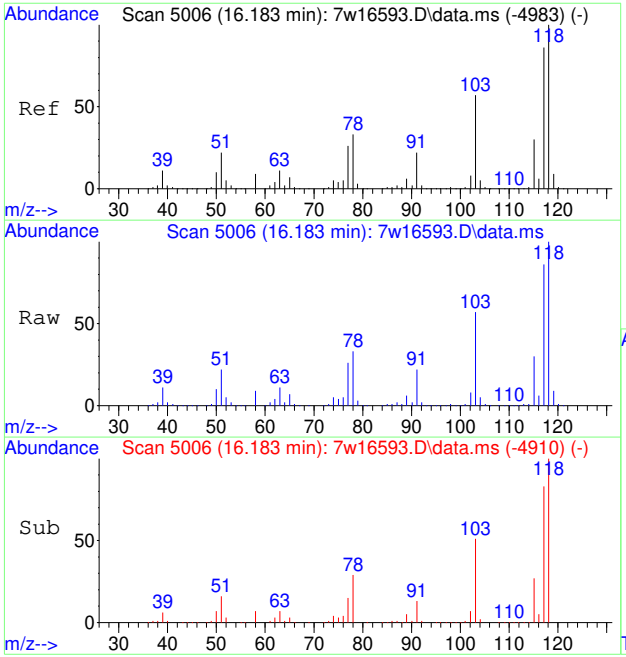


#93
1,3,5-TRIMETHYLBENZENE
Concen: 55.47 PPBV
RT: 15.858 min Scan# 4905
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2975442

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

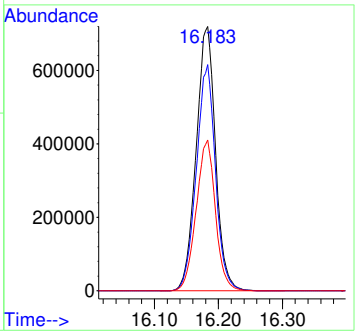


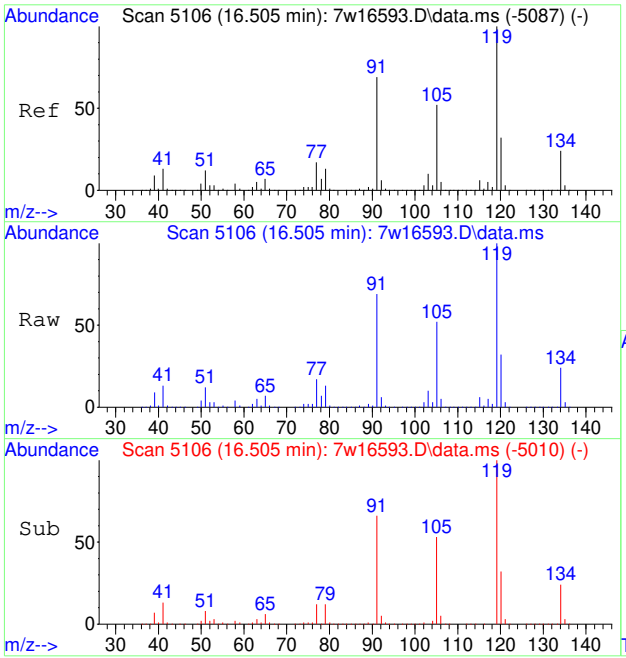


#94
ALPHA-METHYLSTYRENE
Concen: 57.73 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:118 Resp: 1513322

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.8	40.3	74.9

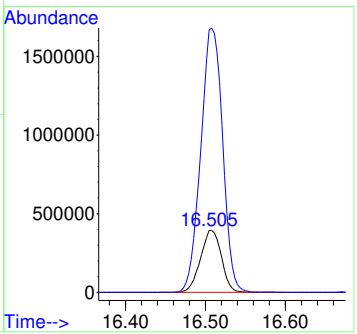


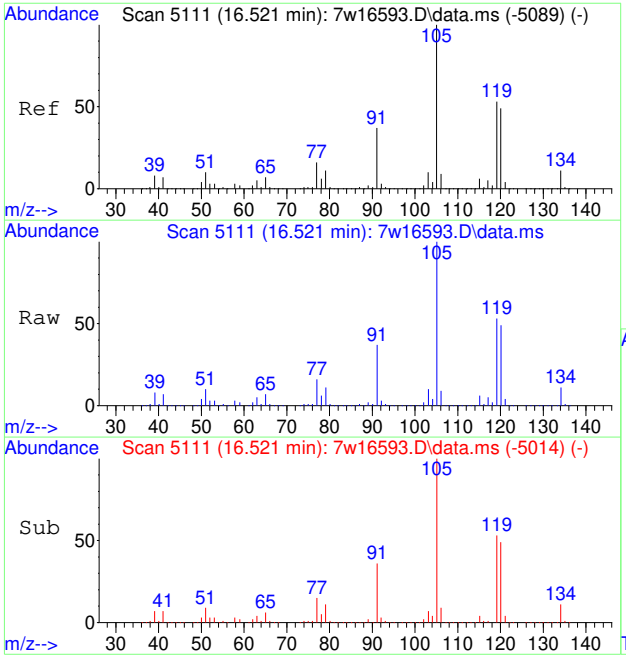


#95
TERT-BUTYLBENZENE
Concen: 54.19 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 714841

Ion	Ratio	Lower	Upper
134	100		
119	446.9	311.3	578.1

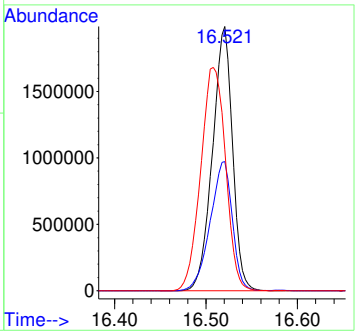


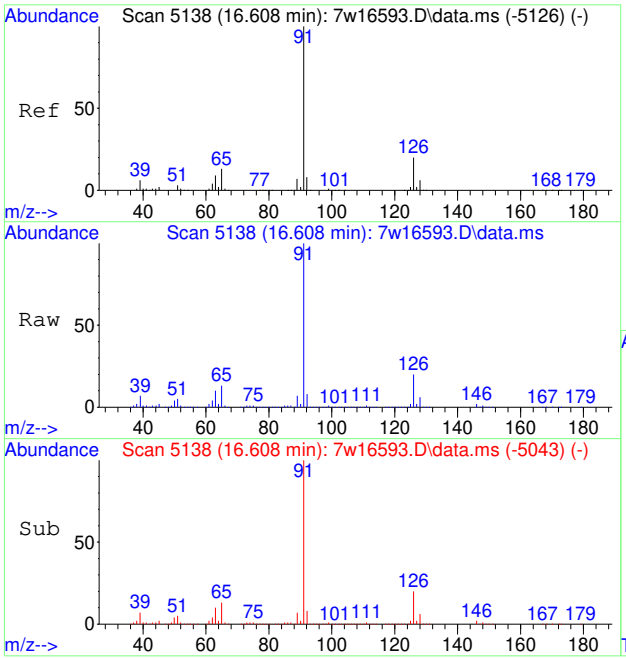


#96
1,2,4-TRIMETHYLBENZENE
Concen: 57.25 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3037196

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

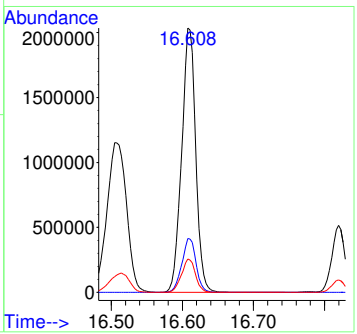


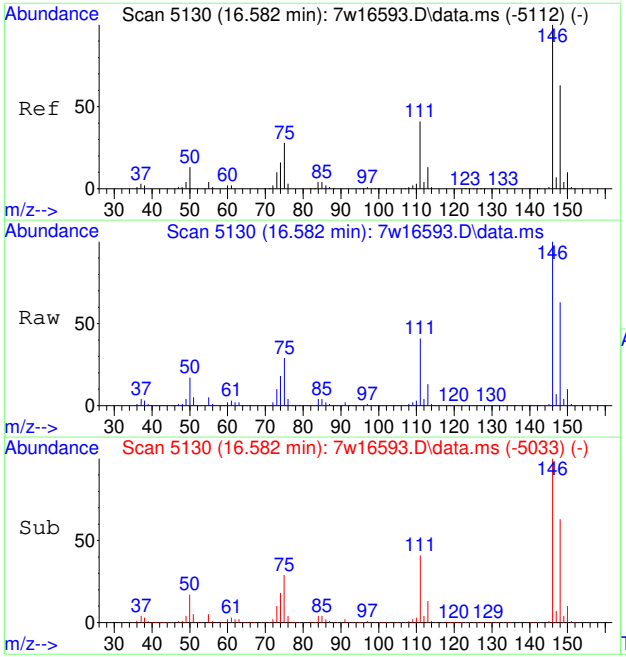


#97
BENZYL CHLORIDE
Concen: 68.69 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2795409

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.6	9.2	17.0

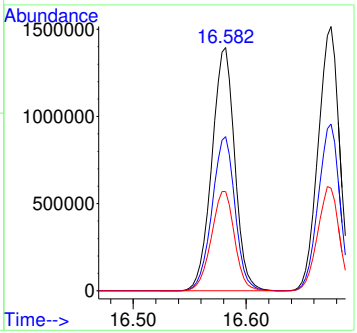


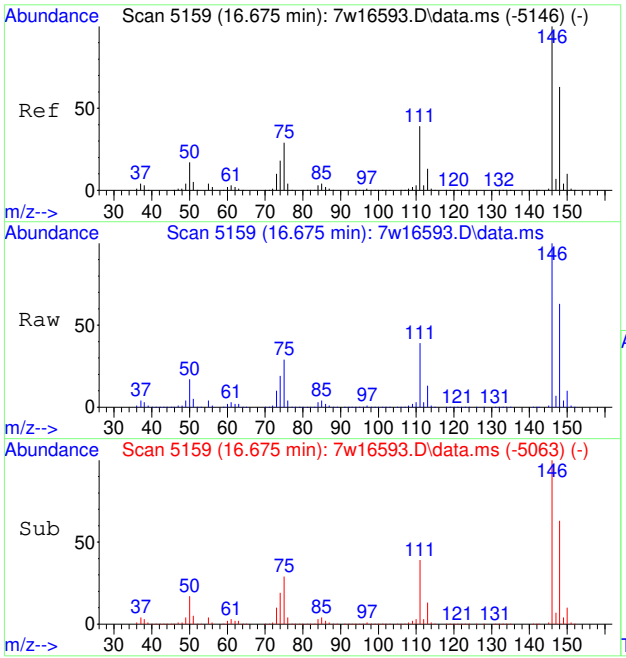


#98
M-DICHLOROBENZENE
Concen: 53.40 PPBV
RT: 16.582 min Scan# 5130
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1958237

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.6	82.8
111	41.4	29.3	54.3

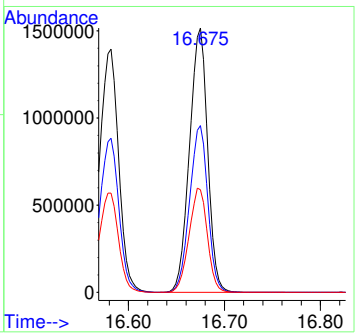


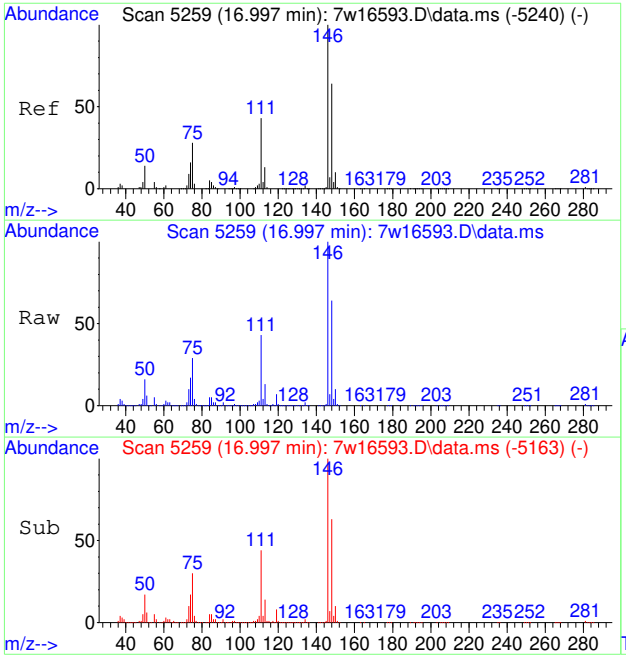


#99
P-DICHLOROBENZENE
Concen: 55.15 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1991134

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.2	82.2
111	39.9	28.0	52.0

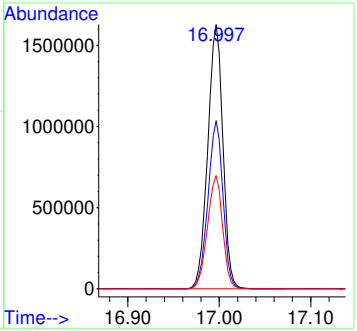


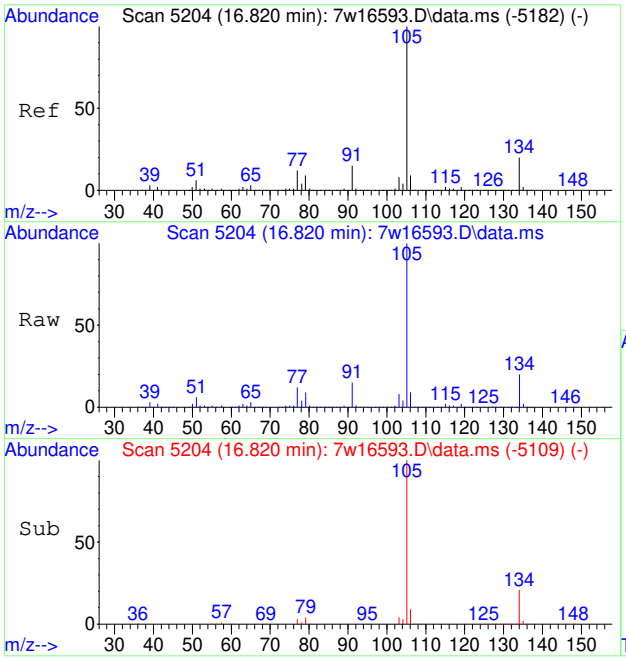


#100
O-DICHLOROBENZENE
Concen: 55.08 PPBV
RT: 16.997 min Scan# 5259
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1868131

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

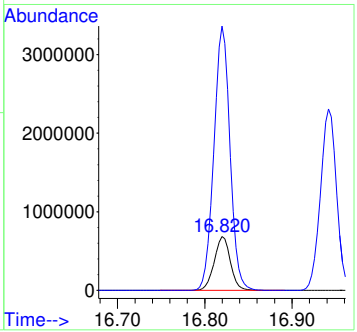


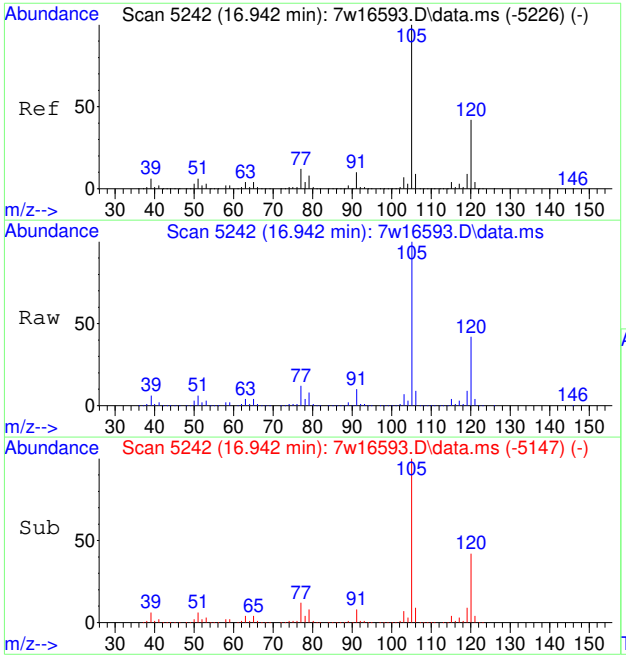


#101
SEC-BUTYLBENZENE
Concen: 56.32 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 879244

Ion	Ratio	Lower	Upper
134	100		
105	490.4	344.8	640.3

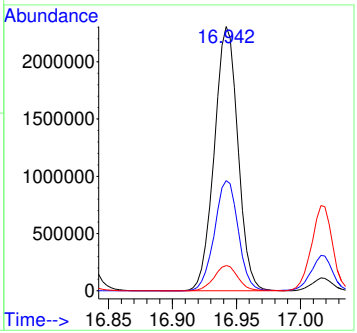


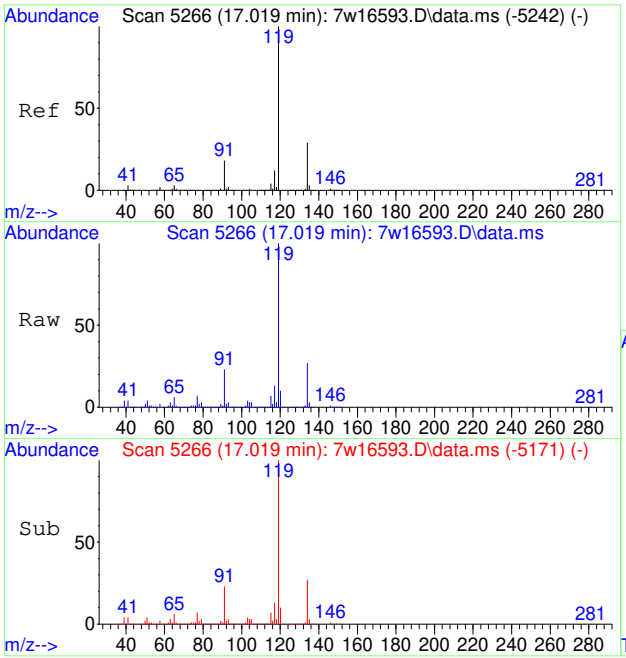


#102
1,2,3-TRIMETHYLBENZENE
Concen: 55.49 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2956799

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	9.7	7.0	13.0

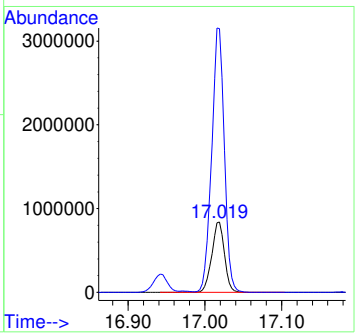


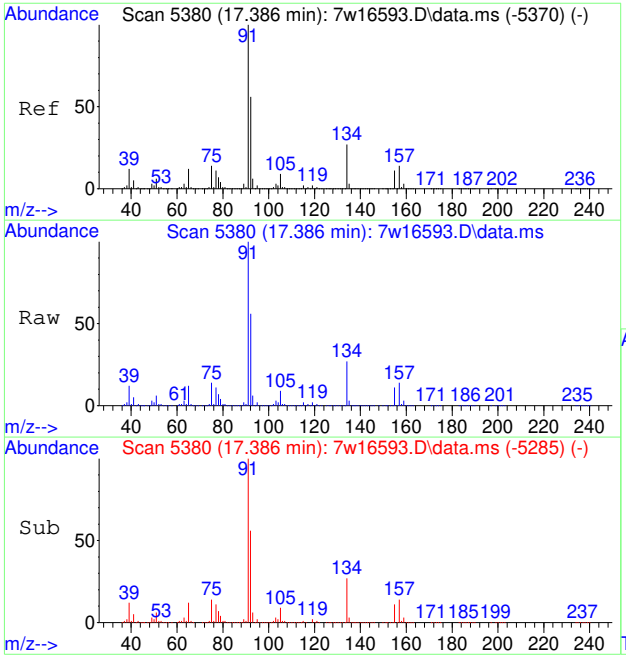


#103
P-ISOPROPYLTOLUENE
Concen: 55.64 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 964439

Ion	Ratio	Lower	Upper
134	100		
119	374.7	261.4	485.4

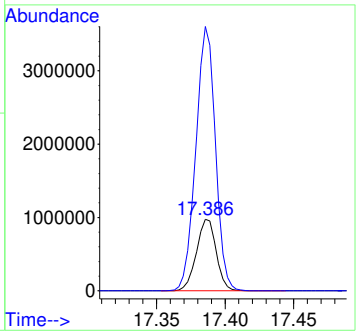


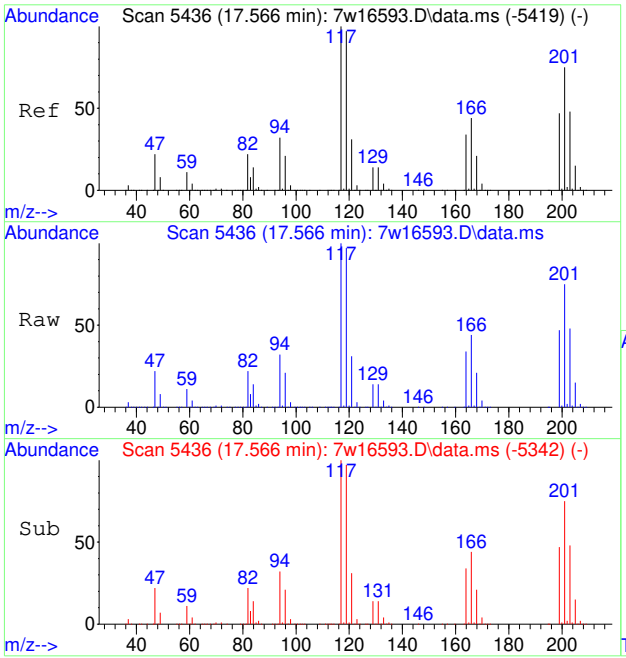


#104
N-BUTYLBENZENE
Concen: 59.74 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 974353

Ion	Ratio	Lower	Upper
134	100		
91	366.6	261.0	484.8

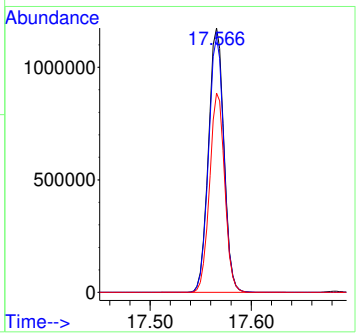


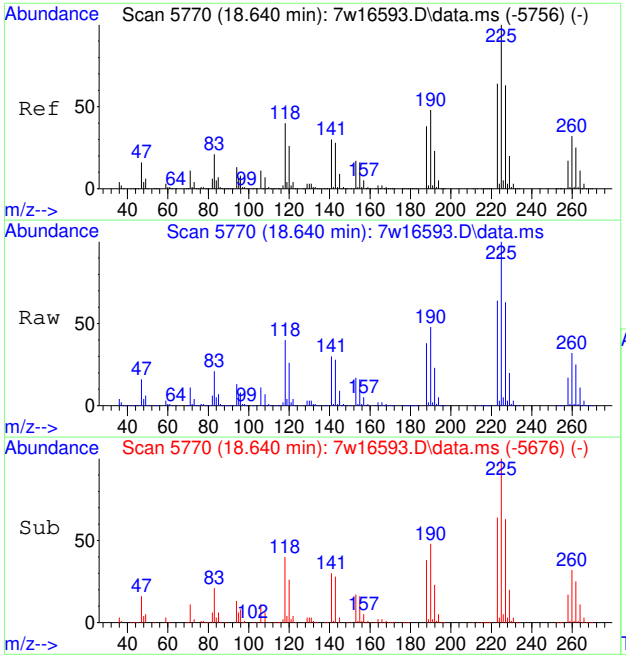


#105
HEXACHLOROETHANE
Concen: 62.73 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1246101

Ion	Ratio	Lower	Upper
117	100		
119	95.9	67.7	125.7
201	73.7	49.8	92.6

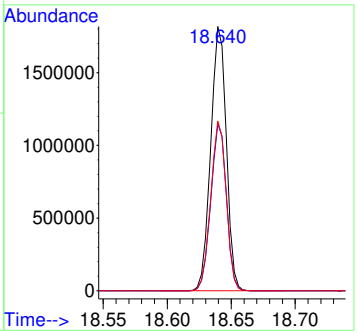


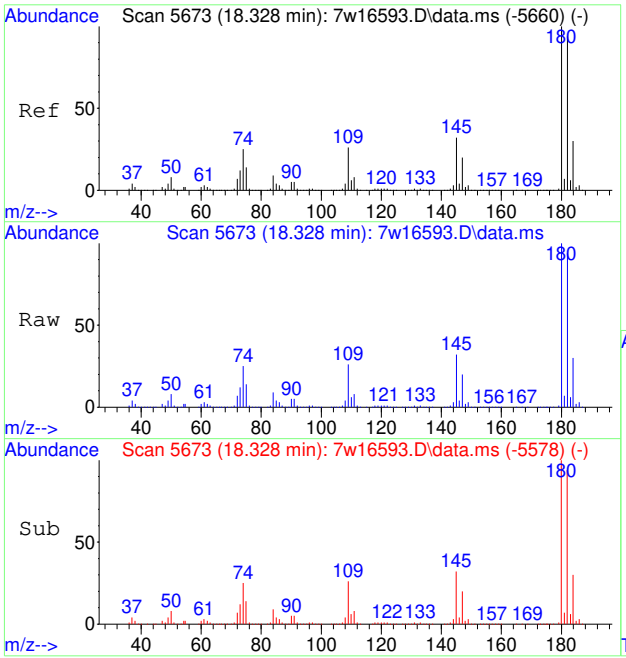


#106
HEXACHLOROBUTADIENE
Concen: 64.95 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:225 Resp: 1541106

Ion	Ratio	Lower	Upper
225	100		
227	63.0	44.6	82.8
223	63.6	44.6	82.8

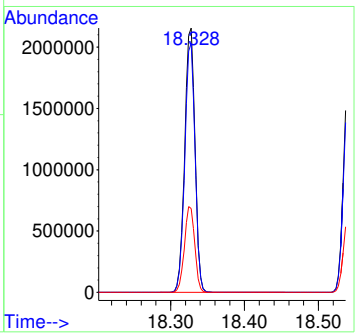


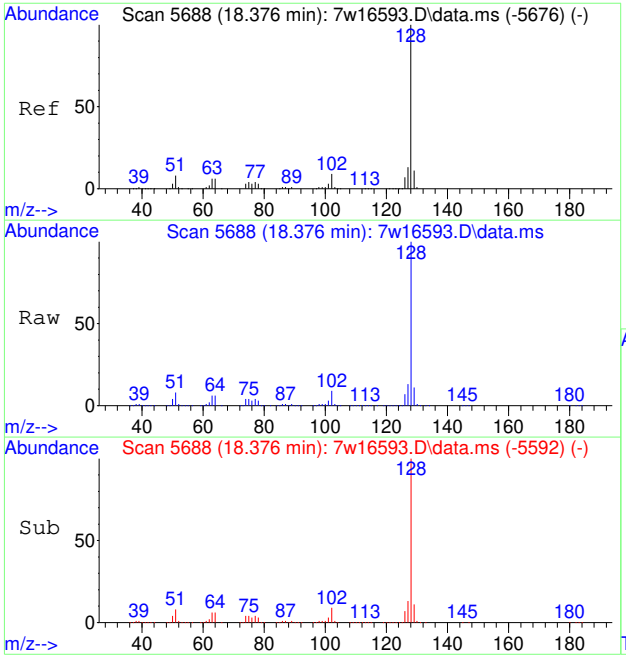


#107
1,2,4-TRICHLOROBENZENE
Concen: 76.81 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:180 Resp: 2093092

Ion	Ratio	Lower	Upper
180	100		
182	94.1	66.6	123.6
145	32.6	22.5	41.9

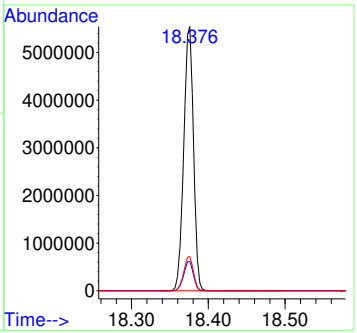


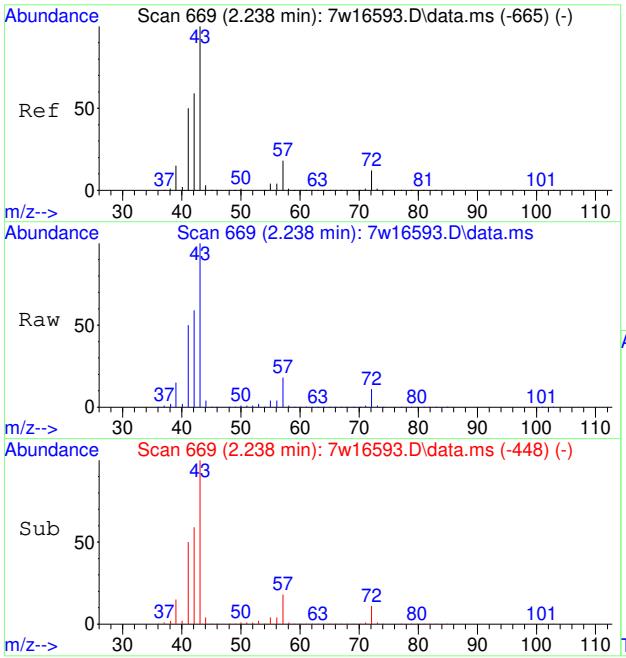


#108
NAPHTHALENE
Concen: 81.19 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:128 Resp: 4901356

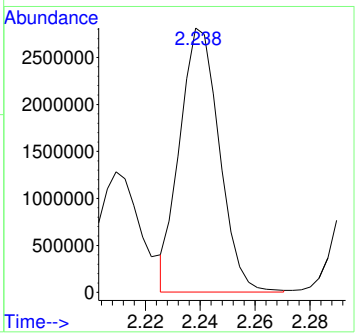
Ion	Ratio	Lower	Upper
128	100		
129	11.1	7.5	13.9
127	12.9	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 45.25 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:TIC Resp: 2811423



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16593.D
Injection Time: 08/07/25 15:15

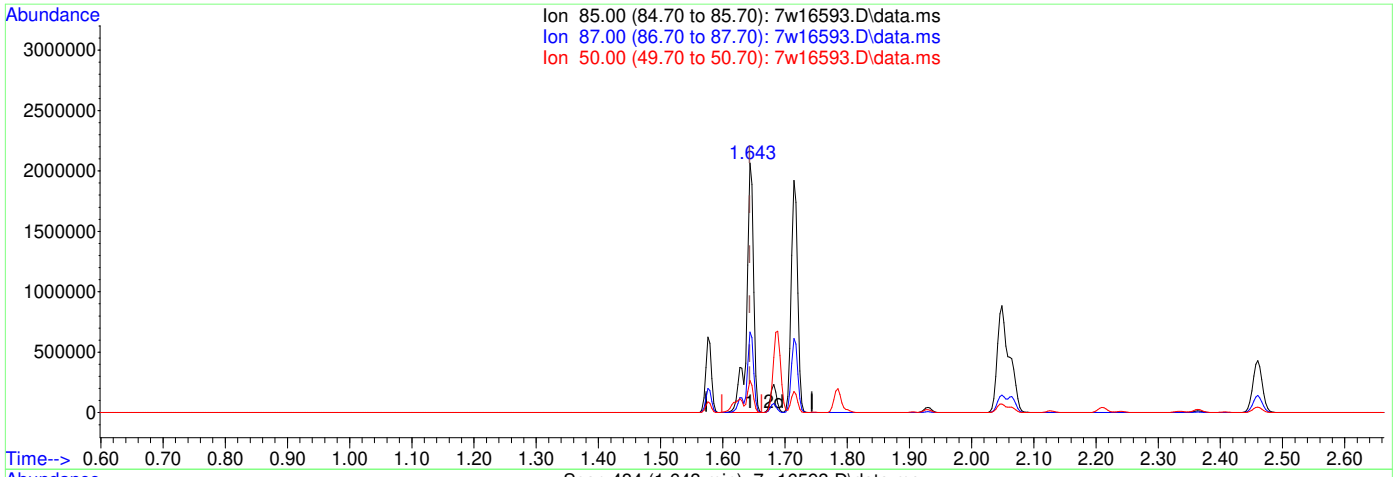
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

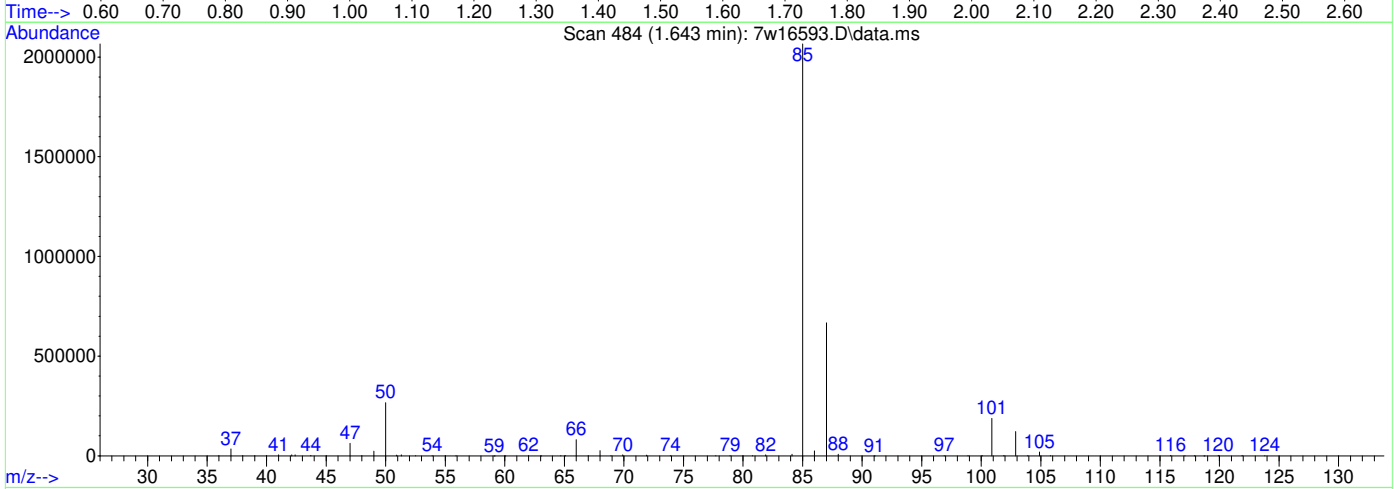
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 53.32PPBV

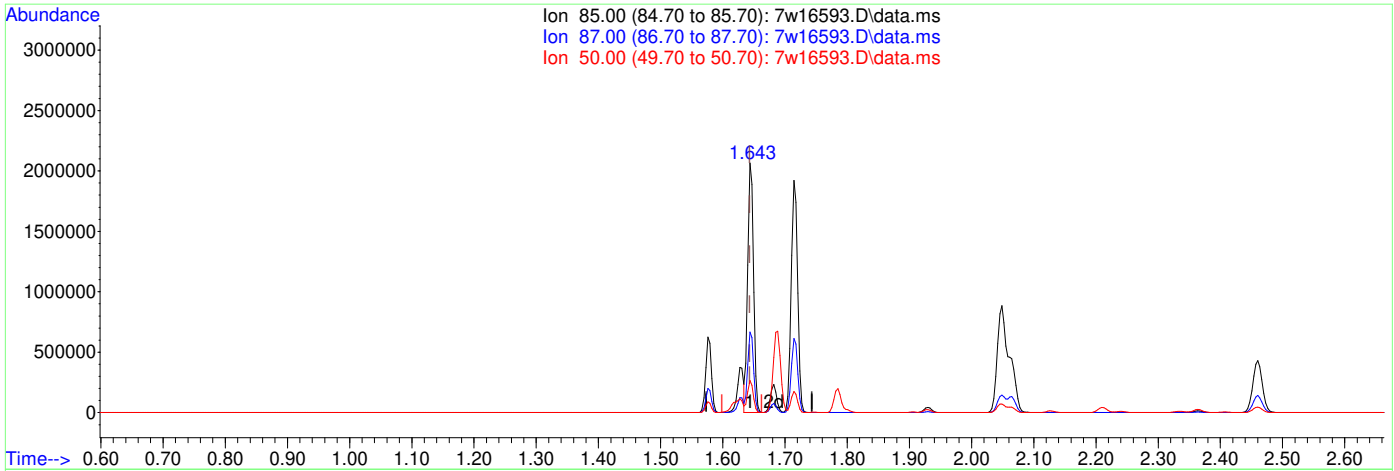
response 1605785

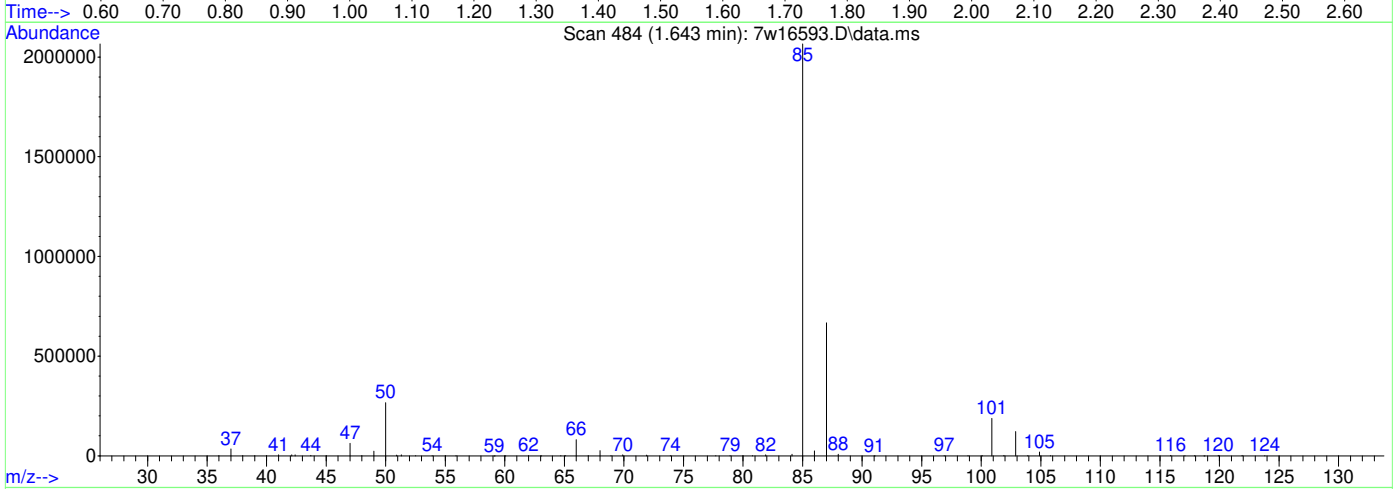
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.49
50.00	19.30	18.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 44.53PPBV m

response 1341049

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.90
50.00	19.30	22.31
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	106909	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	531012	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	486982	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	106911	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.321	95	402638	10.30	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	416591	62.18	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	181942	62.53	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.631	116	917974	65.92	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.643	85	1586079m	52.05	PPBV		
7) PROPYLENE	1.627	41	519681	59.64	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1374618	59.89	PPBV		99
9) FREON 114	1.714	85	1619416	61.25	PPBV		99
10) CHLOROMETHANE	1.688	52	212421	57.28	PPBV		98
11) VINYL CHLORIDE	1.746	62	763152	58.43	PPBV		99
12) 1,3-BUTADIENE	1.785	54	588014	56.79	PPBV		97
13) N-BUTANE	1.801	43	1009195	57.39	PPBV		99
14) BROMOMETHANE	1.859	94	580953	57.25	PPBV		99
15) CHLOROETHANE	1.904	64	396609	55.81	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	1380281	56.11	PPBV		99
17) ACETONITRILE	1.994	41	581922	47.00	PPBV		99
18) ACROLEIN	2.032	56	334897	57.43	PPBV		100
19) FREON 123	2.049	83	1521669	61.54	PPBV		100
20) FREON 123A	2.065	117	890775	60.73	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1563139	55.76	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1360413	57.05	PPBV		99
23) ACETONE	2.071	58	370968	56.95	PPBV		93
24) PENTANE	2.238	42	709359	54.82	PPBV		99
25) IODOMETHANE	2.299	142	1579517	61.48	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	645693	60.57	PPBV		94
27) CARBON DISULFIDE	2.463	76	1800975	59.49	PPBV		96
28) ETHANOL	1.933	45	326453	51.26	PPBV		99
29) BROMOETHENE	2.004	106	595538	58.65	PPBV		100
30) ACRYLONITRILE	2.209	52	549118	60.13	PPBV		100
31) METHYLENE CHLORIDE	2.364	84	575223	54.71	PPBV		93
32) 3-CHLOROPROPENE	2.405	76	332976	58.47	PPBV		92
33) FREON 113	2.460	151	974461	60.76	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	2.688	96	674414	57.48	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.338	59	1507671	50.59	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	2004125	60.14	PPBV		99
37) TETRAHYDROFURAN	3.467	72	315623	58.71	PPBV		97
38) HEXANE	3.241	57	1329253	59.12	PPBV		95
39) VINYL ACETATE	2.830	86	203564	64.15	PPBV		90
40) 1,1-DICHLOROETHANE	2.762	63	1312399	57.90	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	360548	58.79	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	737182	60.78	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	381162	59.86	PPBV		90
44) ETHYL ACETATE	3.251	61	270078	63.06	PPBV		85
45) METHYL ACRYLATE	3.238	55	1639035	60.36	PPBV	#	100
46) CHLOROFORM	3.267	83	1396609	59.52	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1562455	62.29	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1503844	61.02	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1592865	62.67	PPBV		100
50) 1,2-DICHLOROETHANE	3.666	62	1086518	59.76	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.132	78	2141182	59.55	PPBV		99
53)	CYCLOHEXANE	4.335	84	968144	62.31	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.589	71	501690	64.89	PPBV		100
55)	TRICHLOROETHENE	5.023	95	961087	57.89	PPBV		99
56)	1,2-DICHLOROPROPANE	4.788	63	899764	61.43	PPBV		99
57)	DIBROMOMETHANE	4.749	174	843168	59.53	PPBV		98
58)	ETHYL ACRYLATE	4.907	55	2081872	63.61	PPBV		100
59)	BROMODICHLOROMETHANE	4.968	83	1618277	60.60	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.113	57	4127531	57.19	PPBV		100
61)	1,4-DIOXANE	5.026	88	483214m	61.98	PPBV		
62)	HEPTANE	5.425	43	1404941	59.03	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	825175	62.06	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.048	58	823387	57.66	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.946	75	1444587	64.81	PPBV		97
66)	TOLUENE	7.138	91	2694962	63.95	PPBV		100
67)	1,3-DICHLOROPROPANE	7.199	76	1360921	64.47	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.618	75	1302469	65.06	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.772	83	774964	64.67	PPBV	#	31
70)	2-HEXANONE	7.704	58	1106138	55.20	PPBV		97
71)	ETHYL METHACRYLATE	7.843	69	1420765	64.21	PPBV		97
72)	TETRACHLOROETHENE	8.855	164	995678	64.80	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.669	129	1671777	69.22	PPBV		100
74)	1,2-DIBROMOETHANE	8.016	107	1452027	66.89	PPBV		100
75)	OCTANE	9.006	43	1982903	62.35	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.071	131	1205798	69.43	PPBV		100
78)	CHLOROBENZENE	10.058	112	2204542	66.36	PPBV		98
79)	ETHYLBENZENE	10.936	91	3650660	67.08	PPBV		100
80)	M,P-XYLENE	11.370	91	5556486	125.67	PPBV		60
81)	O-XYLENE	12.293	91	2839567	66.28	PPBV		98
82)	STYRENE	12.084	104	2245416	70.41	PPBV		99
83)	NONANE	13.421	43	2110946	63.10	PPBV		98
84)	BROMOFORM	11.174	173	1514711	75.01	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	12.315	83	2064226	67.37	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.595	75	1624746	67.69	PPBV		100
88)	ISOPROPYLBENZENE	13.807	120	1073063	65.98	PPBV		97
89)	BROMOBENZENE	13.672	77	2035109	65.06	PPBV		99
90)	2-CHLOROTOLUENE	14.800	126	993540	65.73	PPBV		100
91)	N-PROPYLBENZENE	15.141	120	1146895	66.71	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	4258764	66.89	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.865	105	3539586	66.72	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.183	118	1802748	68.96	PPBV		99
95)	TERT-BUTYLBENZENE	16.508	134	849405	65.41	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3598939	68.48	PPBV		99
97)	BENZYL CHLORIDE	16.611	91	3366305	81.19	PPBV		99
98)	M-DICHLOROBENZENE	16.585	146	2335430	64.53	PPBV		99
99)	P-DICHLOROBENZENE	16.675	146	2373563	66.58	PPBV		100
100)	O-DICHLOROBENZENE	17.000	146	2236033	66.71	PPBV		100
101)	SEC-BUTYLBENZENE	16.823	134	1046061	67.84	PPBV		98
102)	1,2,3-TRIMETHYLBENZENE	16.945	105	3529094	66.96	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.019	134	1145439	66.86	PPBV		100
104)	N-BUTYLBENZENE	17.389	134	1159070	71.38	PPBV		97
105)	HEXACHLOROETHANE	17.566	117	1491790	74.98	PPBV		98
106)	HEXACHLOROBUTADIENE	18.640	225	1851997	78.27	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2599589	93.58	PPBV		99
108)	NAPHTHALENE	18.376	128	6111699	98.65	PPBV		98
110)	TVHC as equiv Pentane	2.238	TIC	3312203	53.84	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

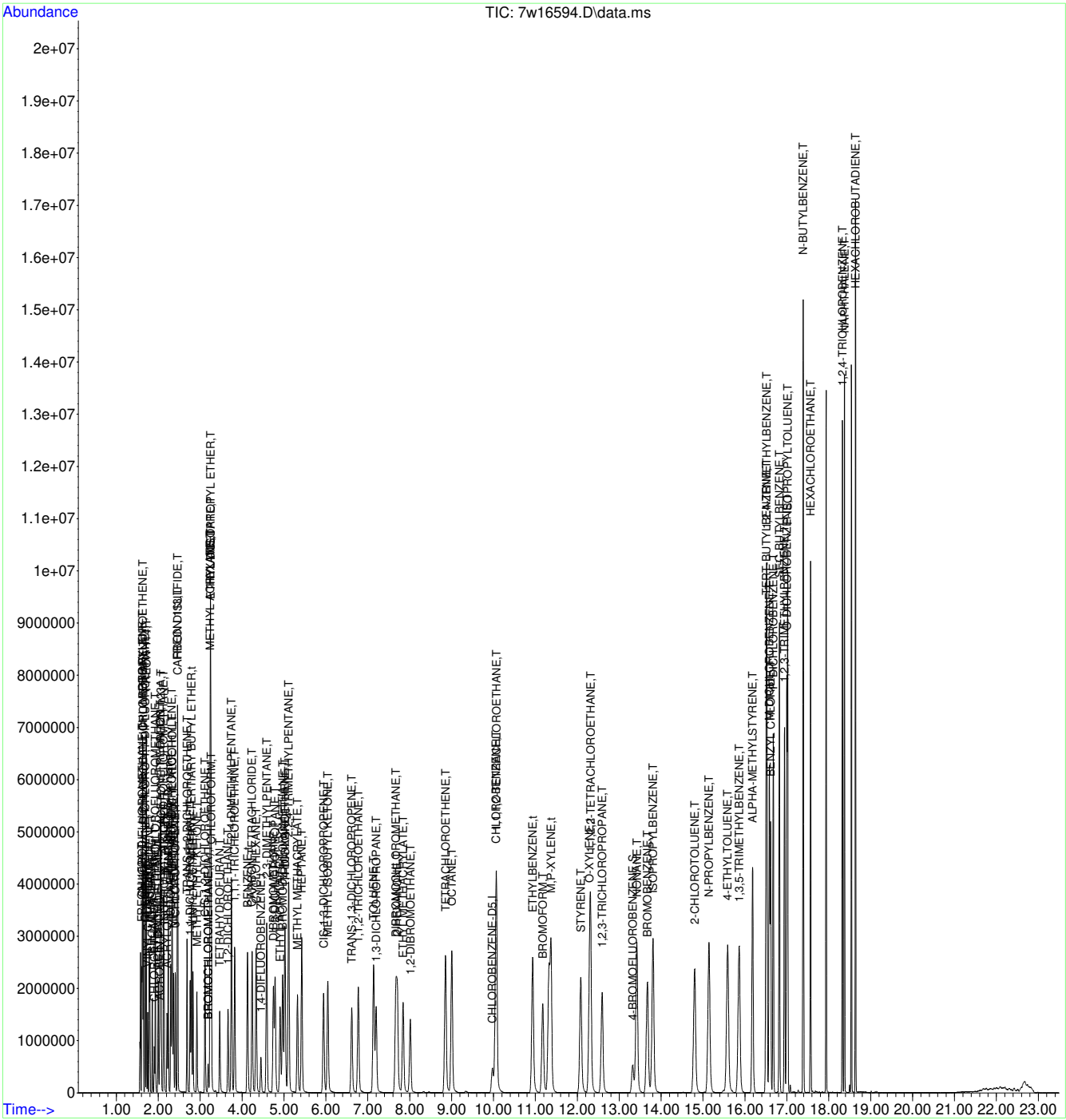
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

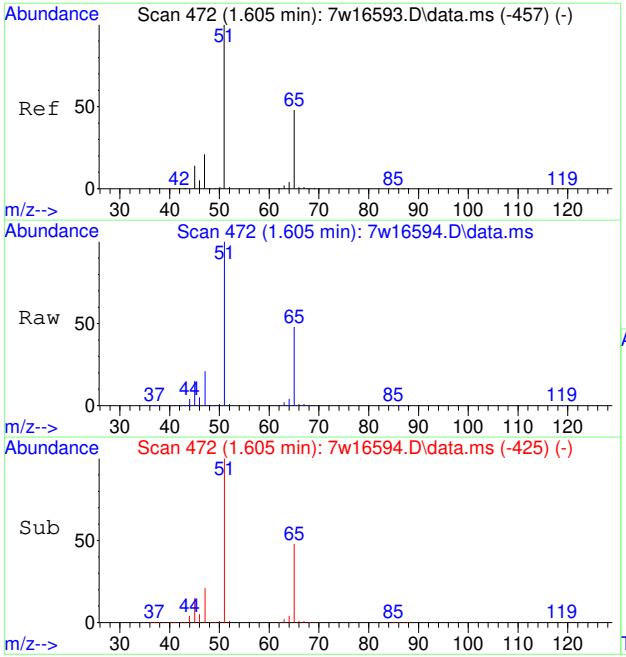
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

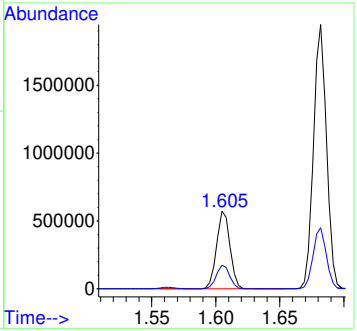


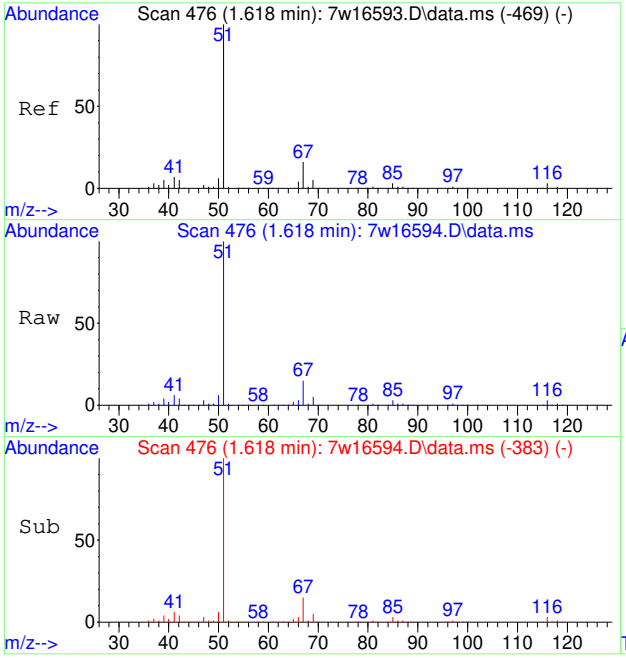


#3
FREON 152A
Concen: 62.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 416591

Ion	Ratio	Lower	Upper
65	100		
45	30.5	23.0	42.8

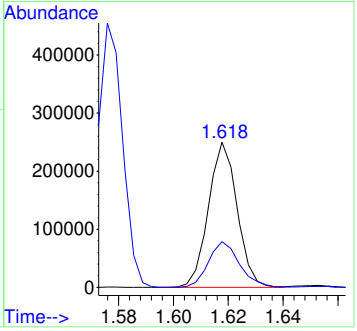


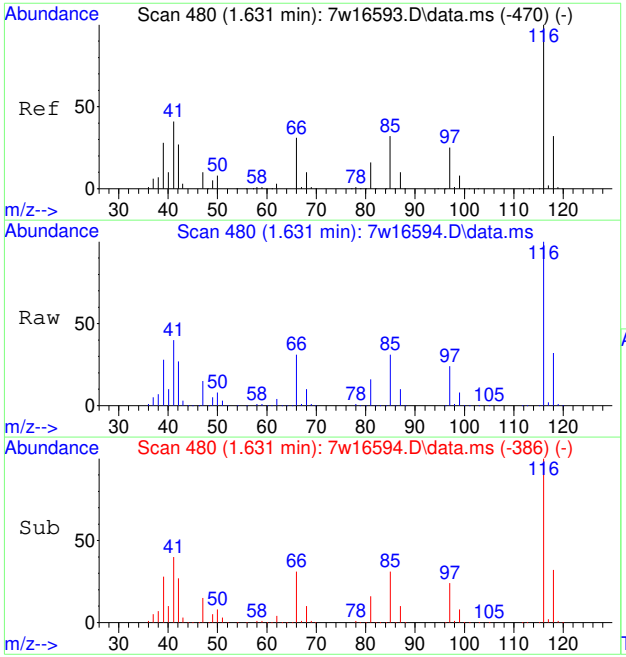


#4
CHLORODIFLUOROMETHANE
Concen: 62.53 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 181942

Ion	Ratio	Lower	Upper
67	100		
69	34.8	25.3	47.1

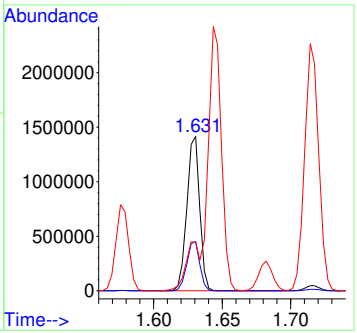


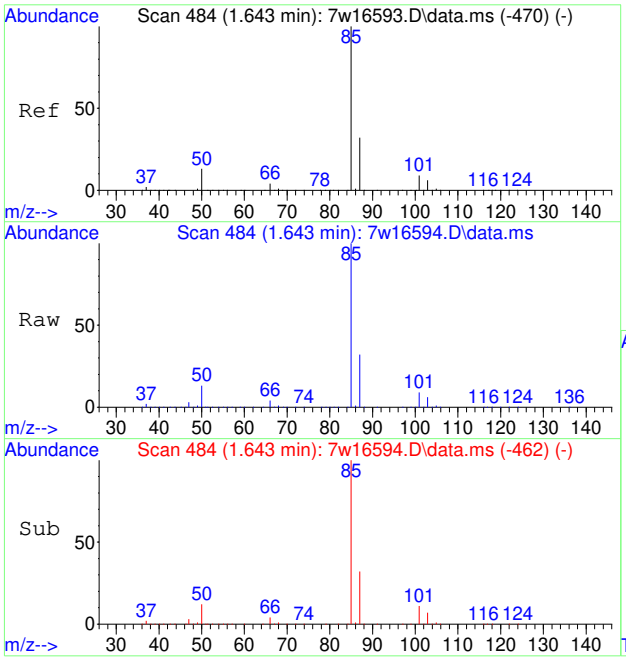


#5
CHLOROTRIFLUOROETHENE
Concen: 65.92 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:116 Resp: 917974

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	207.3	152.4	283.0

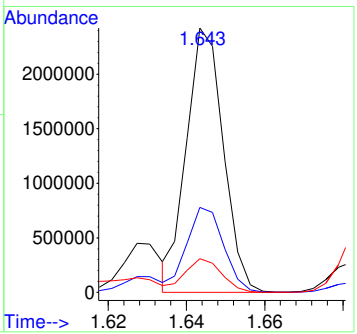


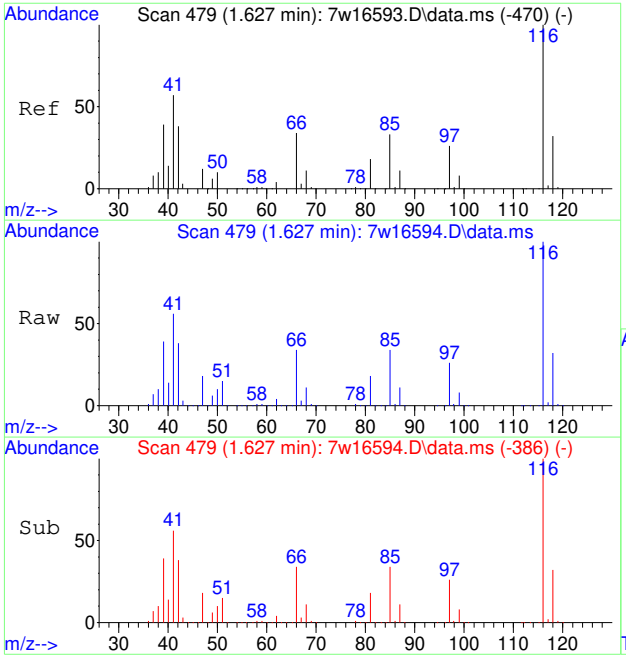


#6
DICHLORODIFLUOROMETHANE
Concen: 52.05 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1586079

Ion	Ratio	Lower	Upper
85	100		
87	38.8	23.0	42.6
50	22.3	13.5	25.1

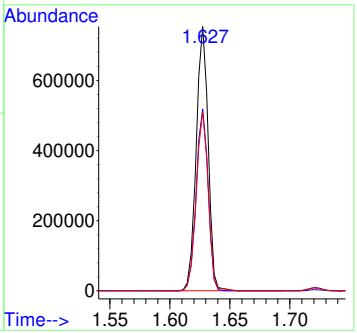


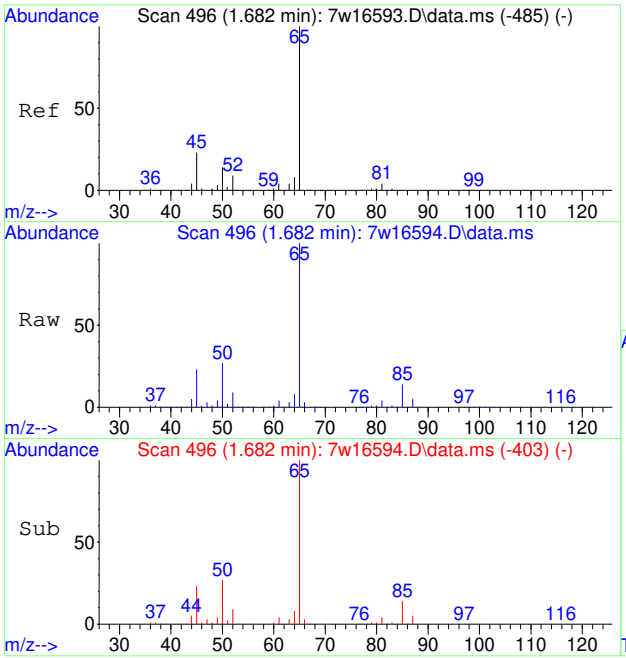


#7
PROPYLENE
Concen: 59.64 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 519681

Ion	Ratio	Lower	Upper
41	100		
39	69.0	50.5	93.7
42	67.4	47.0	87.4

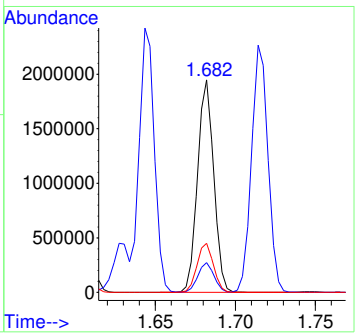


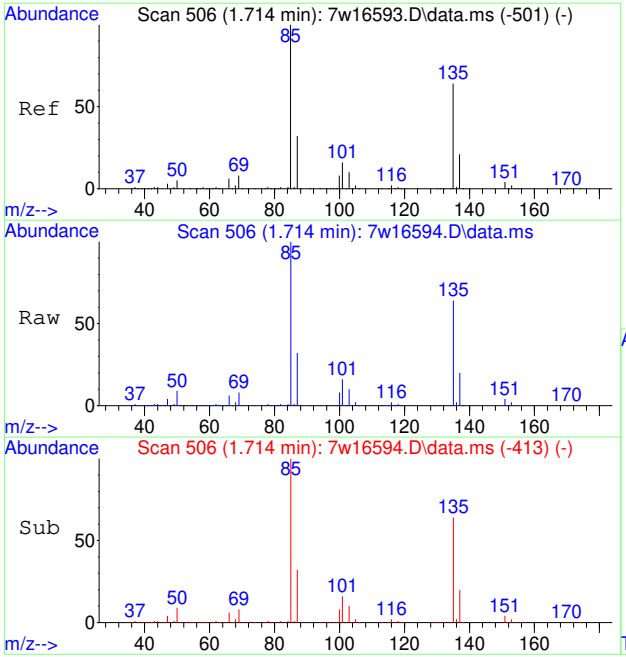


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 59.89 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 1374618

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

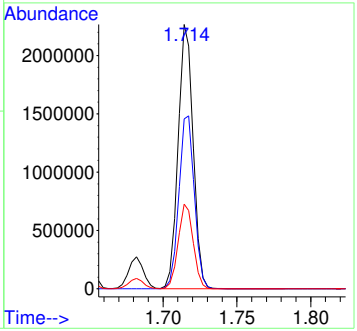


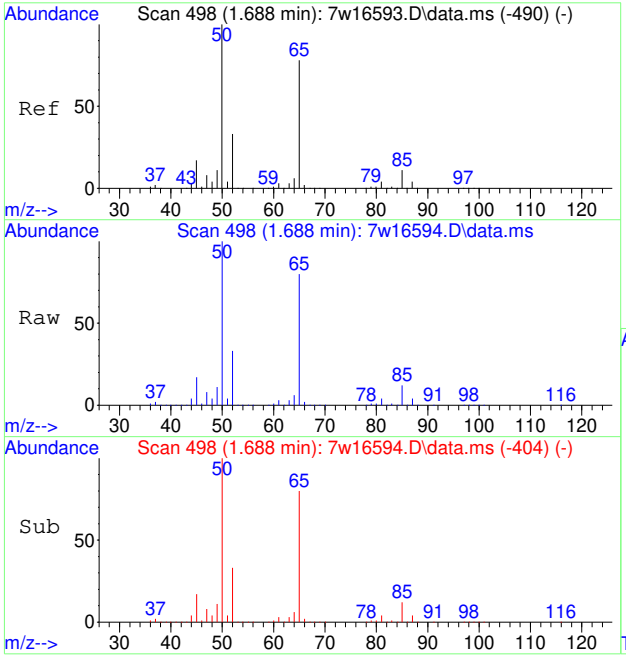


#9
FREON 114
Concen: 61.25 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1619416

Ion	Ratio	Lower	Upper
85	100		
135	67.3	46.1	85.7
87	32.1	22.6	42.0

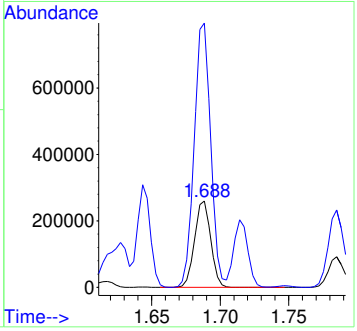


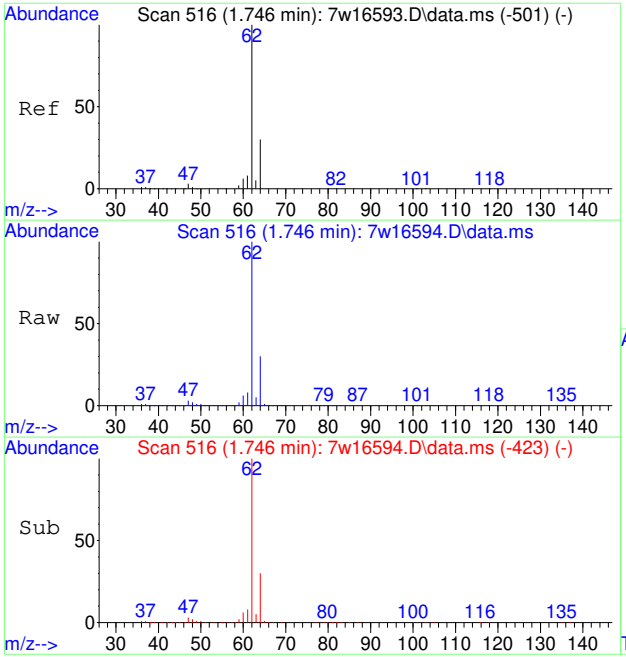


#10
CHLOROMETHANE
Concen: 57.28 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 212421

Ion	Ratio	Lower	Upper
52	100		
50	318.6	225.6	419.0

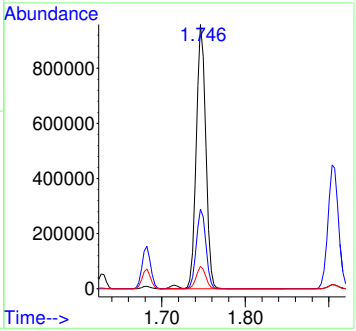


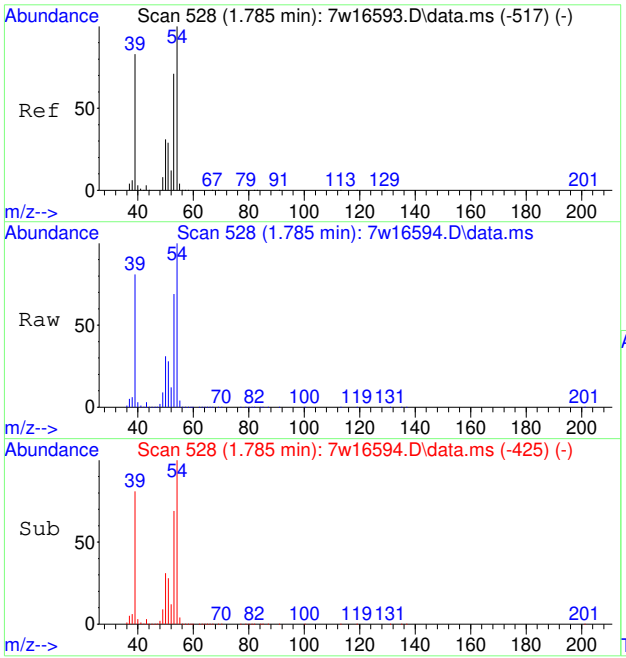


#11
VINYL CHLORIDE
Concen: 58.43 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 763152

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.5	5.7	10.5

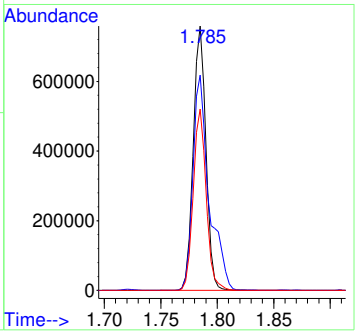


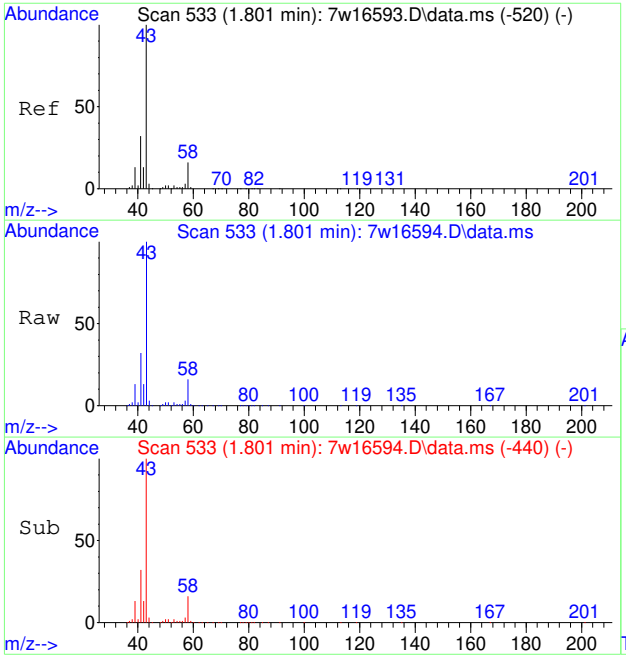


#12
1,3-BUTADIENE
Concen: 56.79 PPBV
RT: 1.785 min Scan# 528
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 54 Resp: 588014

Ion	Ratio	Lower	Upper
54	100		
39	103.8	78.4	138.4
53	70.6	40.9	100.9

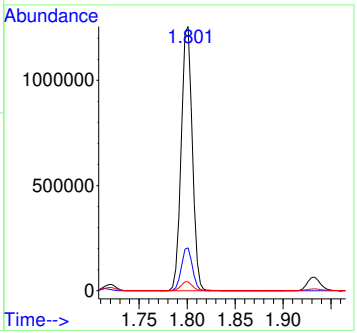


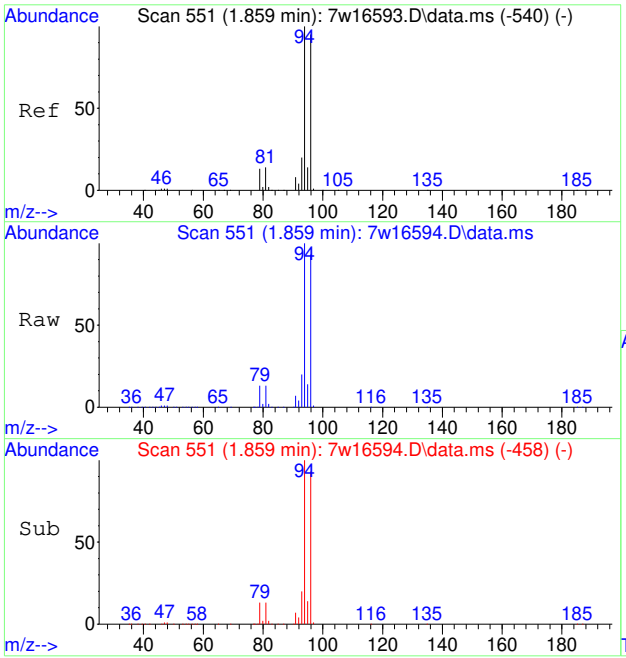


#13
N-BUTANE
Concen: 57.39 PPBV
RT: 1.801 min Scan# 533
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1009195

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.5	2.6	4.8

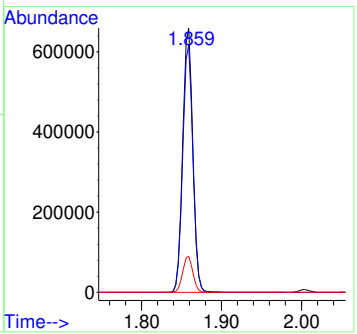


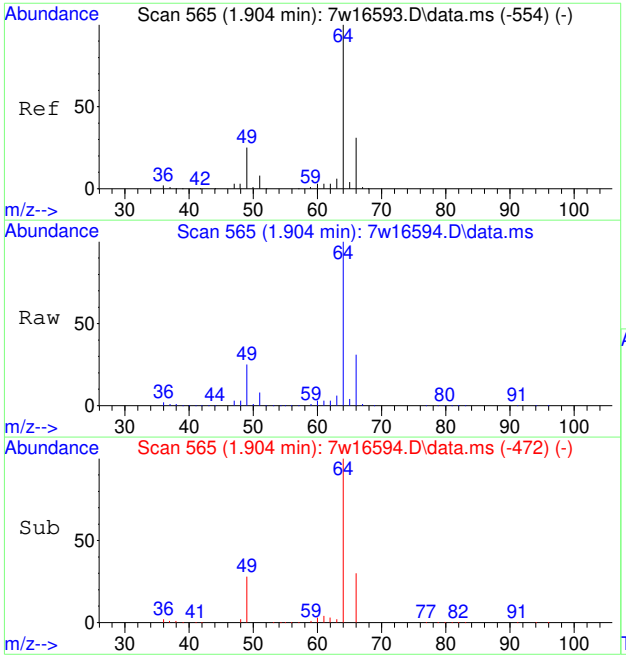


#14
BROMOMETHANE
Concen: 57.25 PPBV
RT: 1.859 min Scan# 551
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 94 Resp: 580953

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.8	9.9	18.3

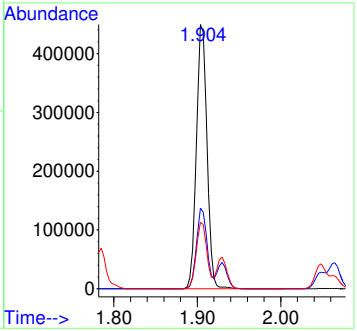


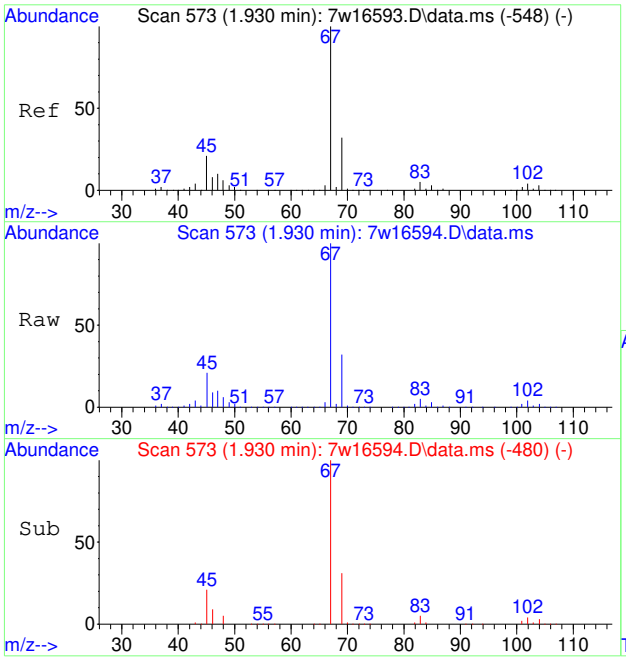


#15
CHLOROETHANE
Concen: 55.81 PPBV
RT: 1.904 min Scan# 565
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 64 Resp: 396609

Ion	Ratio	Lower	Upper
64	100		
66	40.0	21.5	39.9#
49	26.0	19.0	35.4

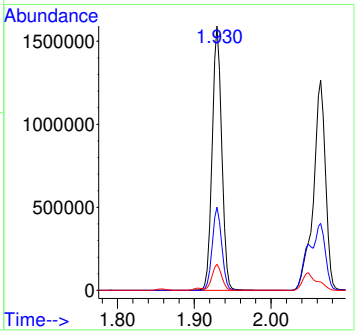


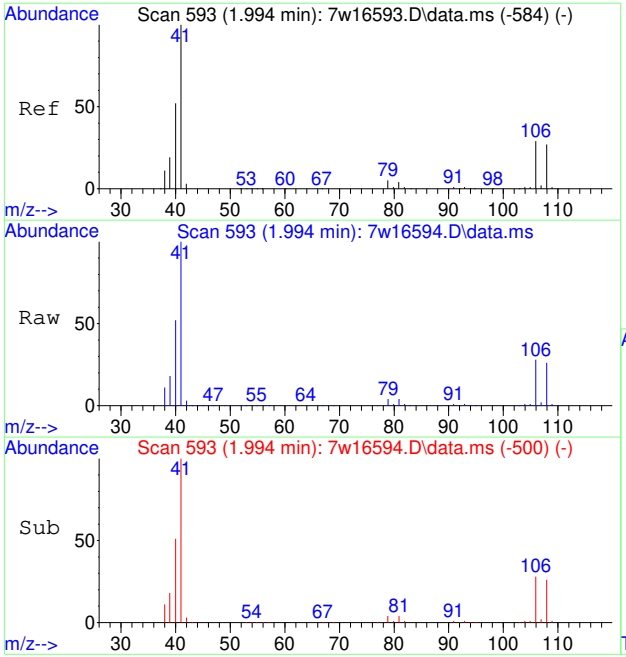


#16
DICHLOROFLUOROMETHANE
Concen: 56.11 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 1380281

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

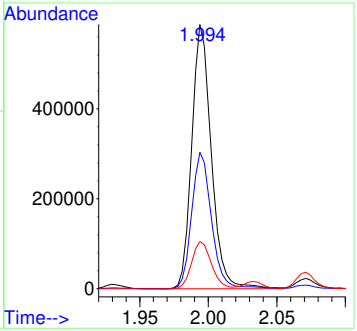


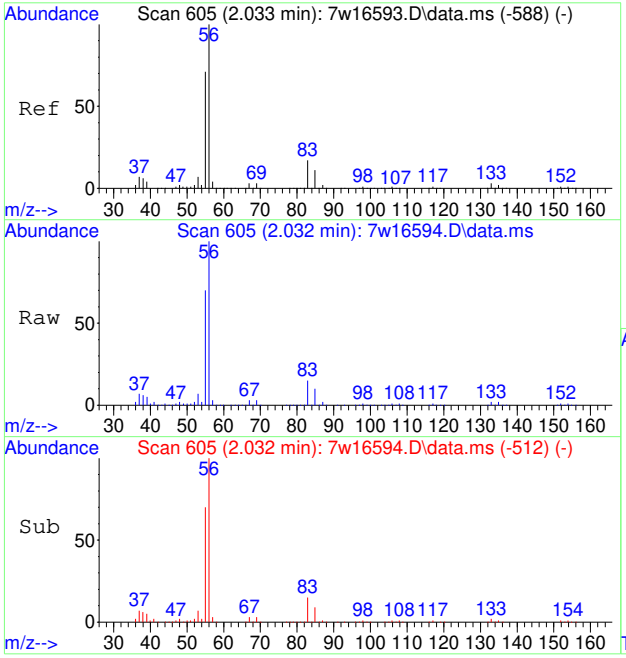


#17
ACETONITRILE
Concen: 47.00 PPBV
RT: 1.994 min Scan# 593
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 581922

Ion	Ratio	Lower	Upper
41	100		
40	52.3	36.7	68.1
39	18.0	13.1	24.3

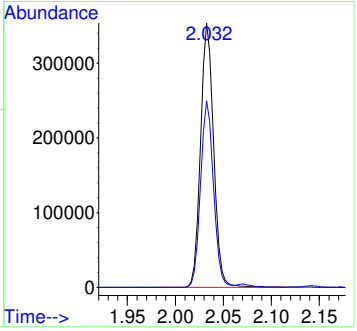


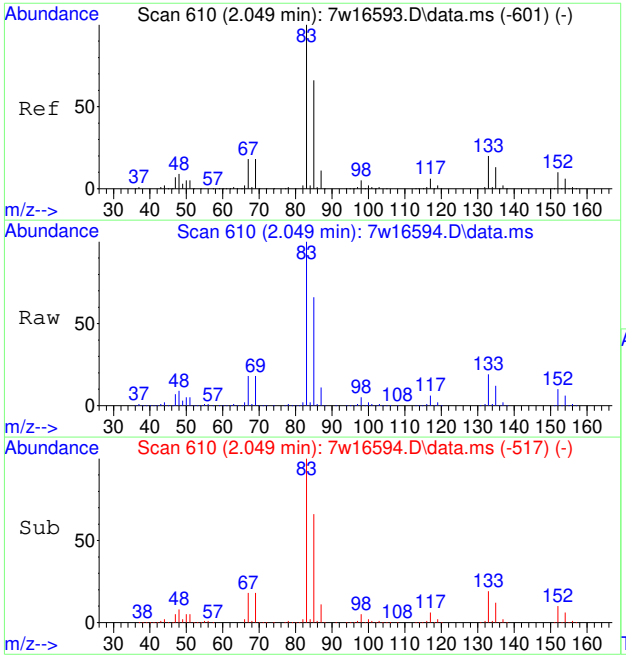


#18
ACROLEIN
Concen: 57.43 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 56 Resp: 334897

Ion	Ratio	Lower	Upper
56	100		
55	69.9	48.9	90.7

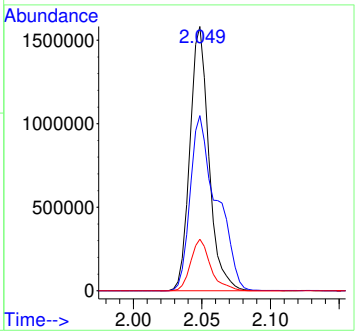


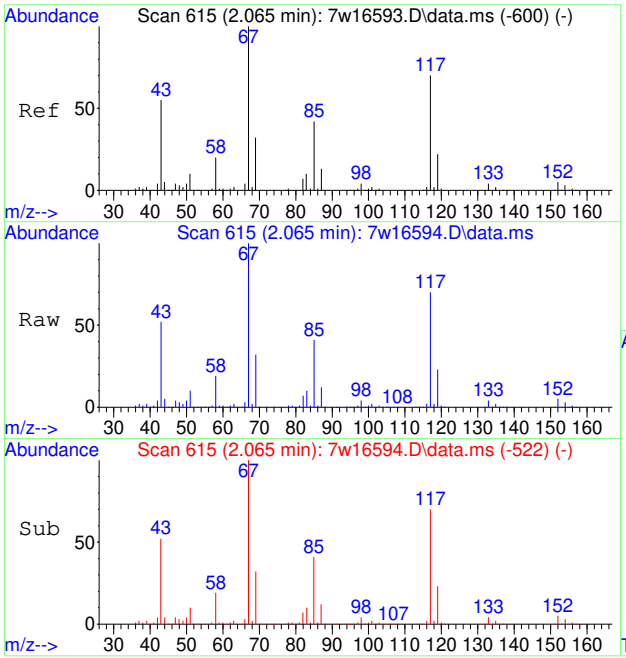


#19
FREON 123
Concen: 61.54 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1521669

Ion	Ratio	Lower	Upper
83	100		
85	92.7	64.9	120.5
133	20.6	14.7	27.3

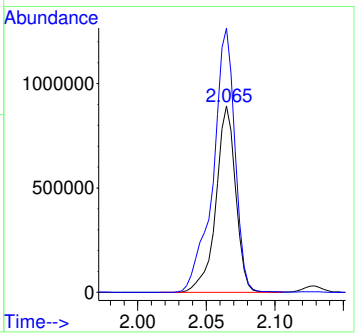


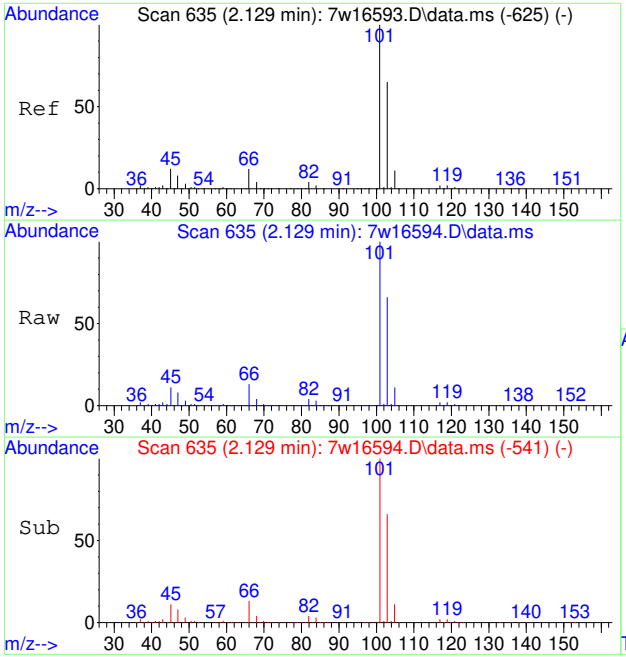


#20
FREON 123A
Concen: 60.73 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 890775

Ion	Ratio	Lower	Upper
117	100		
67	157.1	111.3	206.7

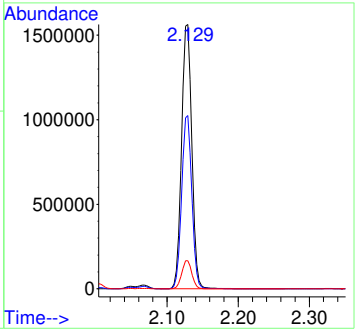


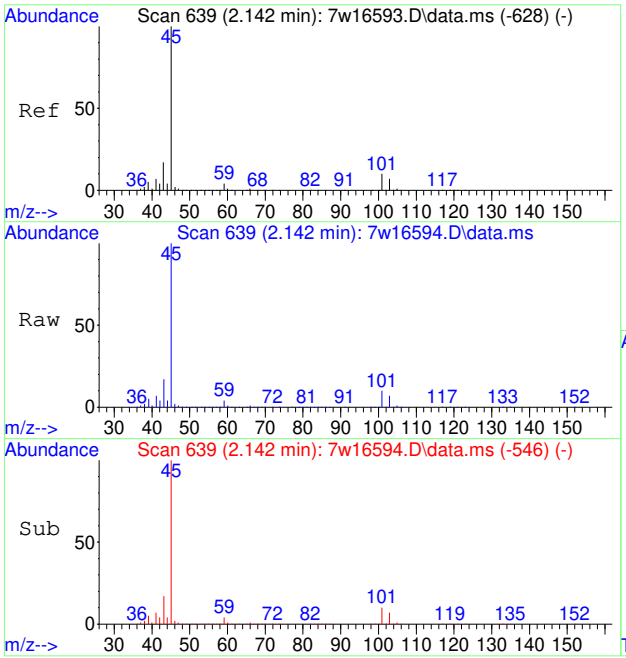


#21
TRICHLOROFLUOROMETHANE
Concen: 55.76 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:101 Resp: 1563139

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.6	7.3	13.5

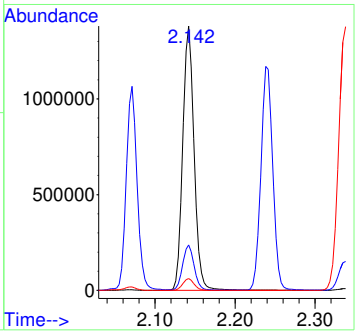


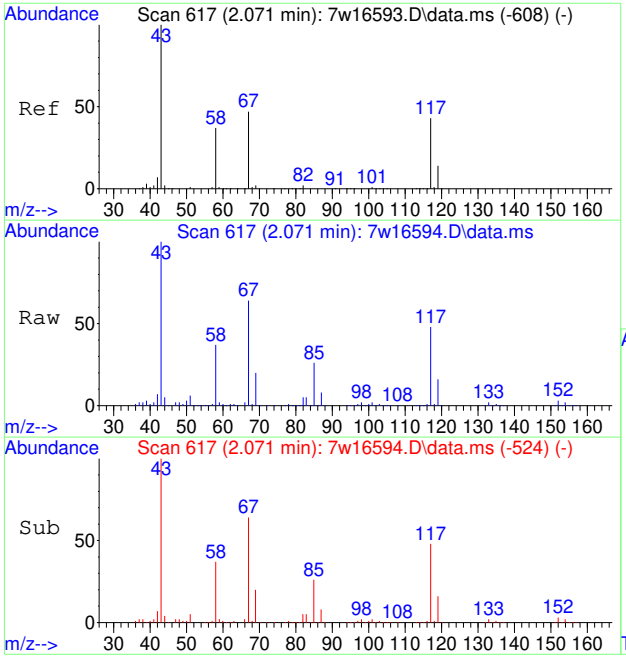


#22
ISOPROPYL ALCOHOL
Concen: 57.05 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 1360413

Ion	Ratio	Lower	Upper
45	100		
43	17.4	12.5	23.3
59	4.5	3.1	5.7

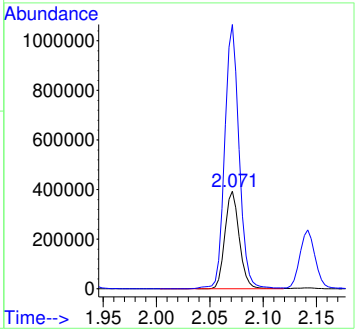


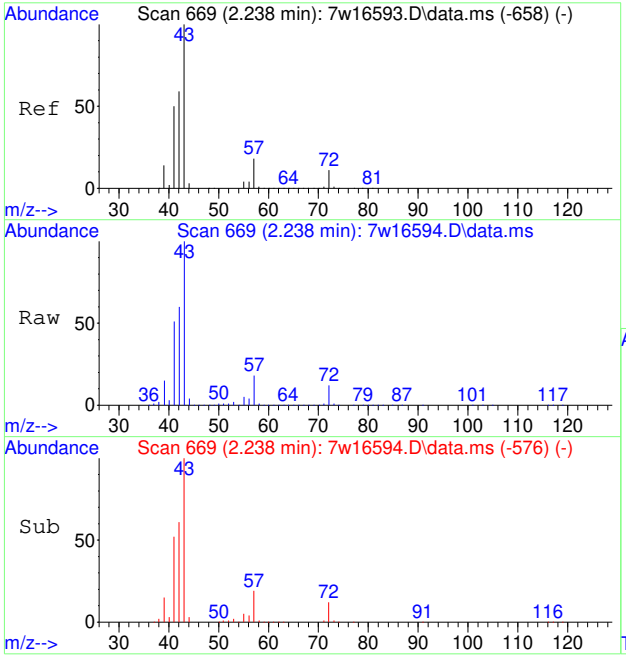


#23
ACETONE
Concen: 56.95 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 370968

Ion	Ratio	Lower	Upper
58	100		
43	271.3	198.6	368.8

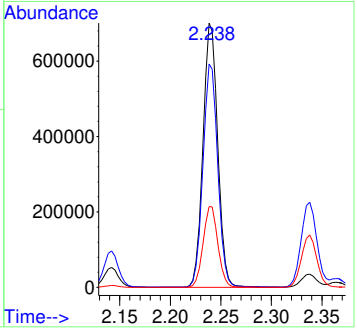


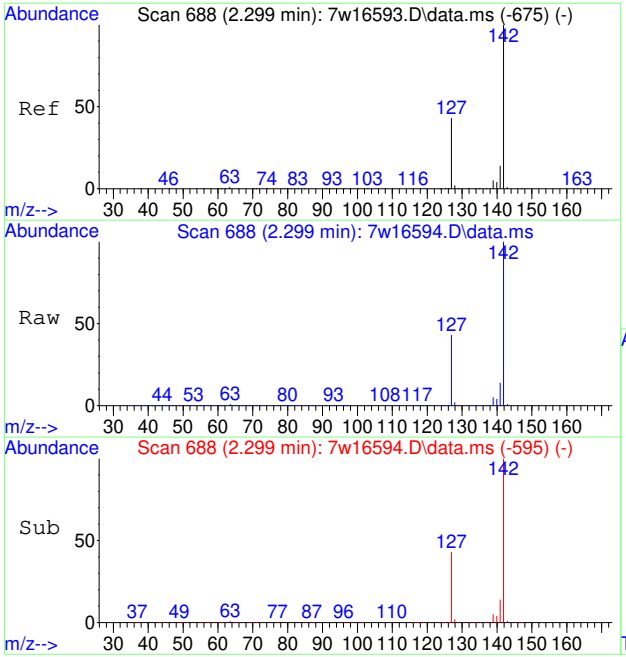


#24
PENTANE
Concen: 54.82 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 42 Resp: 709359

Ion	Ratio	Lower	Upper
42	100		
41	84.8	59.8	111.0
57	30.8	21.1	39.1

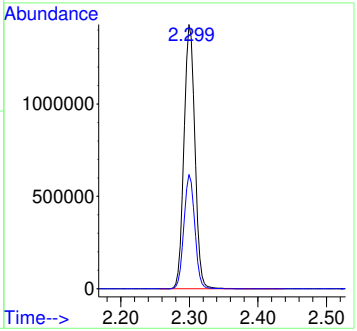


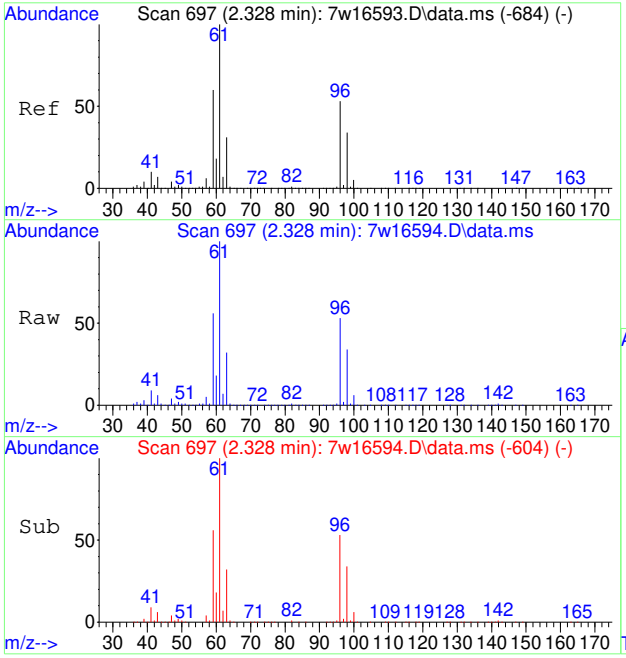


#25
IODOMETHANE
Concen: 61.48 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:142 Resp: 1579517

Ion	Ratio	Lower	Upper
142	100		
127	43.0	30.6	56.8

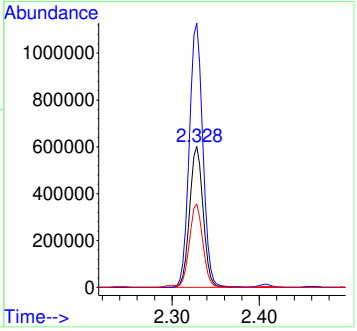


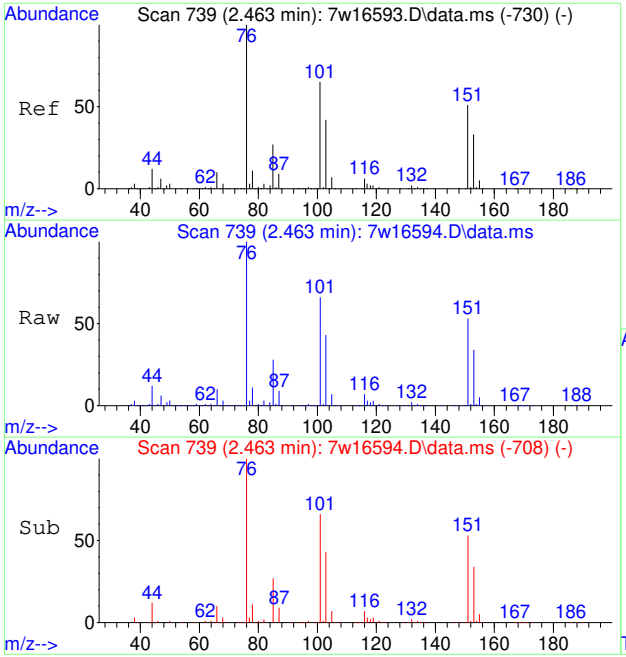


#26
1,1-DICHLOROETHYLENE
Concen: 60.57 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 645693

Ion	Ratio	Lower	Upper
96	100		
61	188.2	138.3	256.8
63	60.1	44.2	82.0

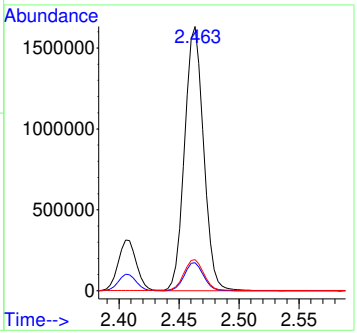


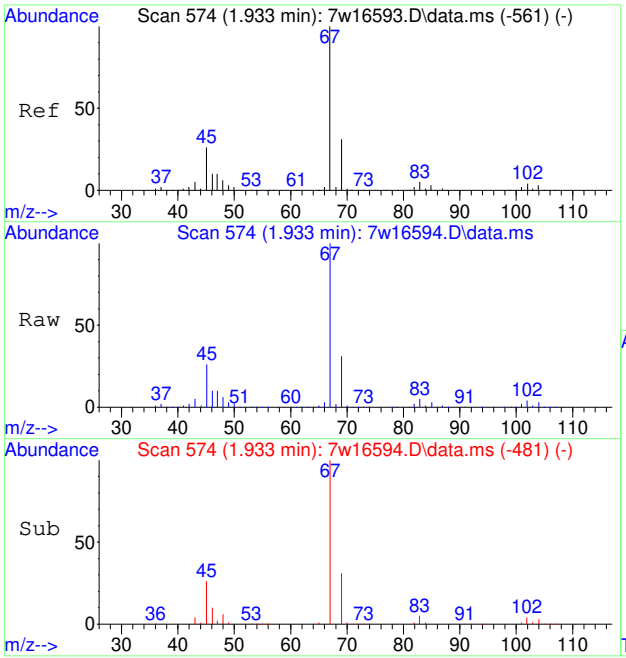


#27
CARBON DISULFIDE
Concen: 59.49 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1800975

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.2	10.2	19.0

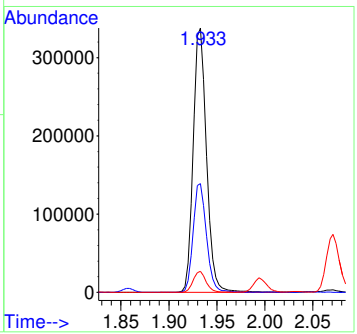


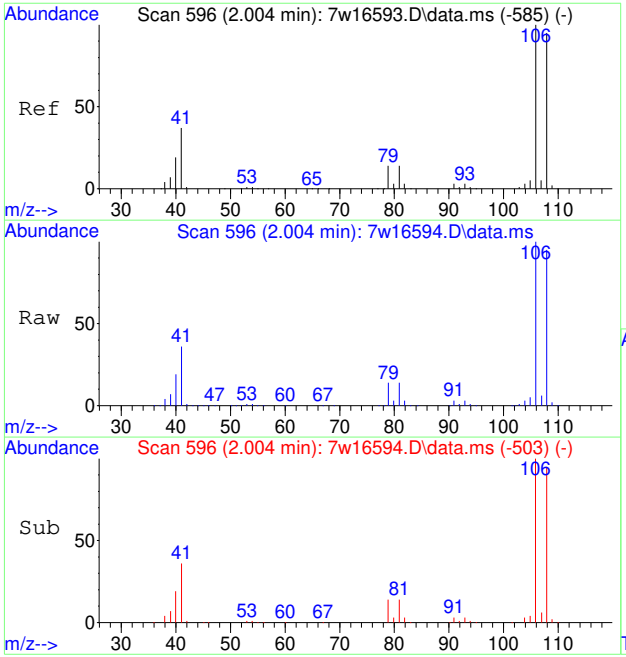


#28
ETHANOL
Concen: 51.26 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 326453

Ion	Ratio	Lower	Upper
45	100		
46	41.2	29.0	53.9
42	7.7	5.7	10.5

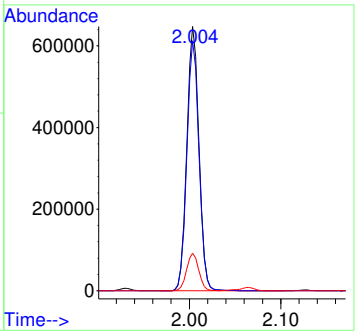


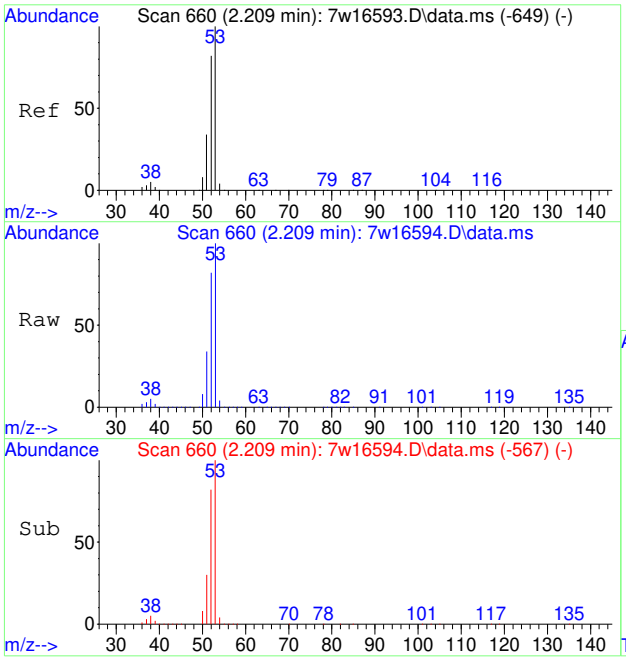


#29
BROMOETHENE
Concen: 58.65 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:106 Resp: 595538

Ion	Ratio	Lower	Upper
106	100		
108	94.5	66.1	122.7
81	14.2	10.6	19.8

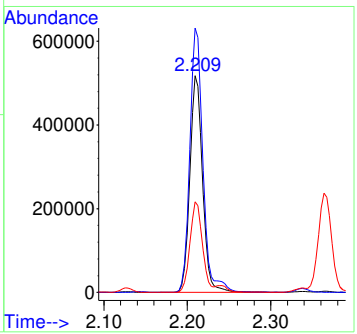


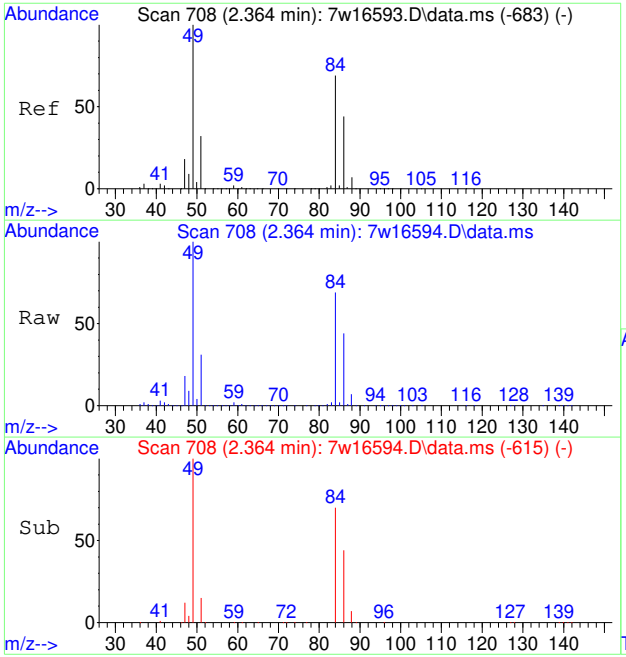


#30
ACRYLONITRILE
Concen: 60.13 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 549118

Ion	Ratio	Lower	Upper
52	100		
53	125.6	88.2	163.8
51	44.2	31.3	58.1

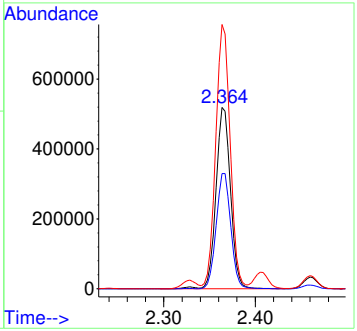


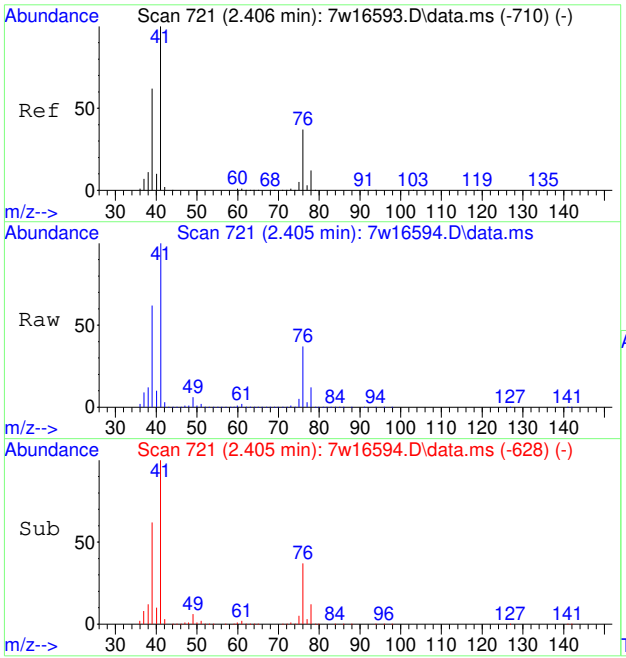


#31
METHYLENE CHLORIDE
Concen: 54.71 PPBV
RT: 2.364 min Scan# 708
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 575223

Ion	Ratio	Lower	Upper
84	100		
86	63.8	44.3	82.3
49	144.7	109.5	203.3

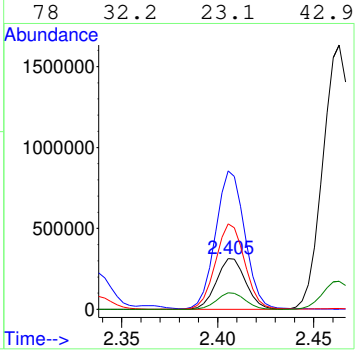


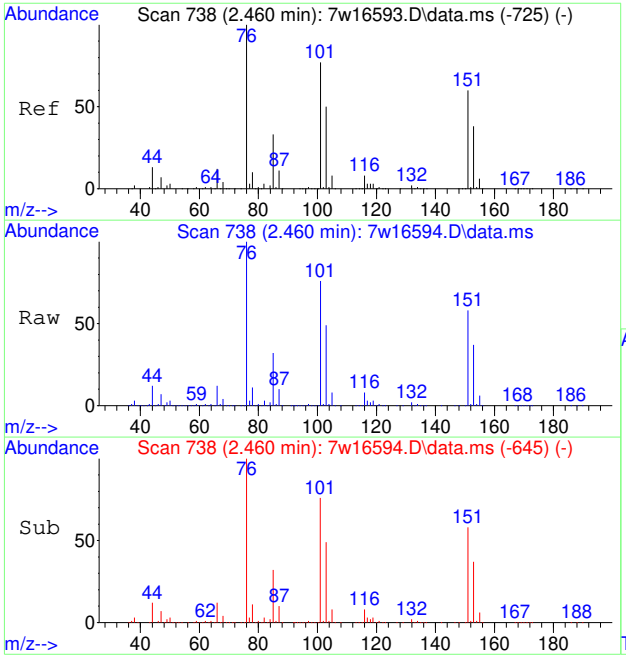


#32
3-CHLOROPROPENE
Concen: 58.47 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 332976

Ion	Ratio	Lower	Upper
76	100		
41	273.7	202.6	376.2
39	168.8	125.8	233.6
78	32.2	23.1	42.9

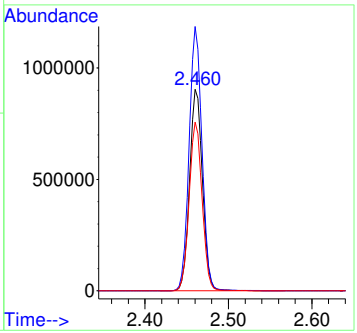


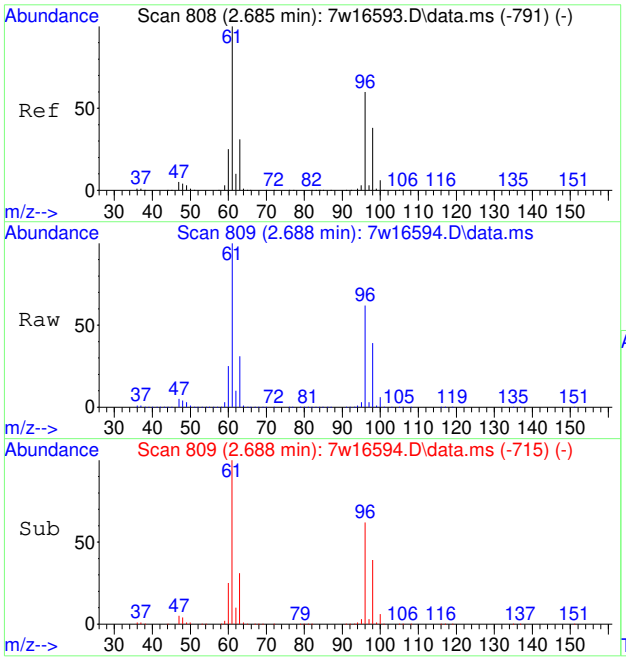


#33
FREON 113
Concen: 60.76 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:151 Resp: 974461

Ion	Ratio	Lower	Upper
151	100		
101	130.5	93.1	172.9
103	84.0	60.1	111.5

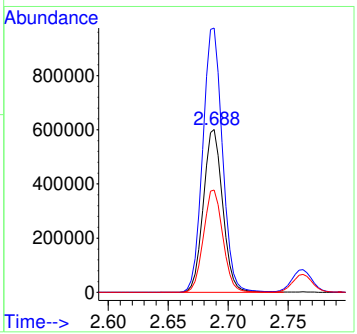


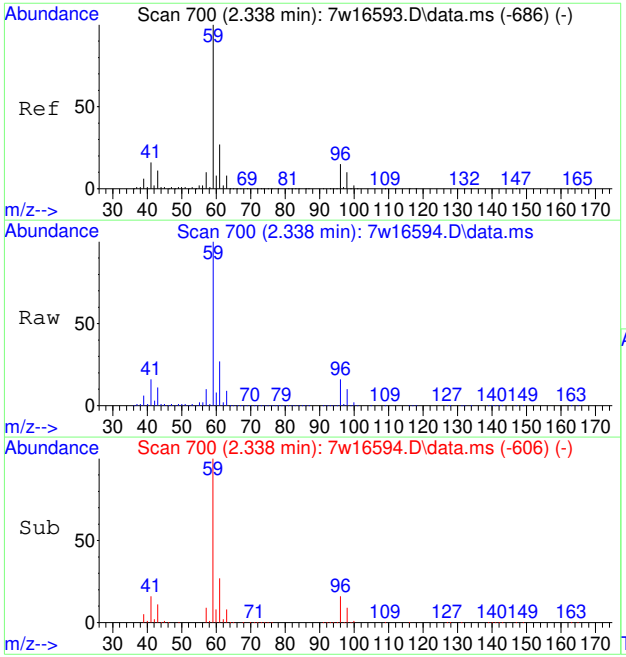


#34
TRANS-1,2-DICHLOROETHENE
Concen: 57.48 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 674414

Ion	Ratio	Lower	Upper
96	100		
61	164.4	119.6	222.0
98	63.1	44.9	83.5

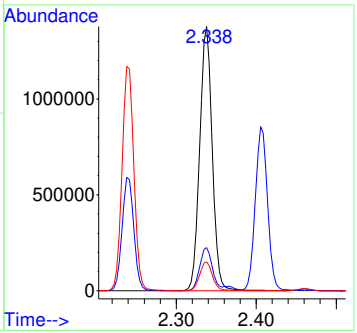


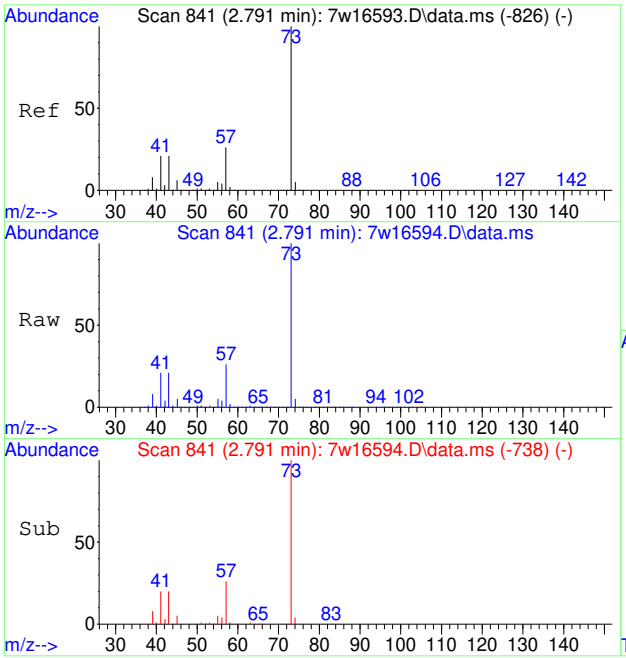


#35
TERTIARY BUTYL ALCOHOL
Concen: 50.59 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 1507671

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.0	8.0	14.8

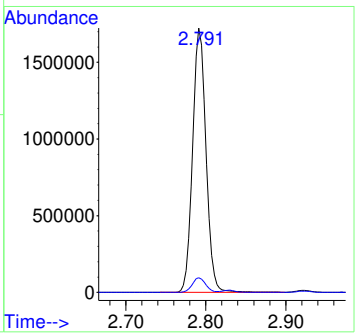


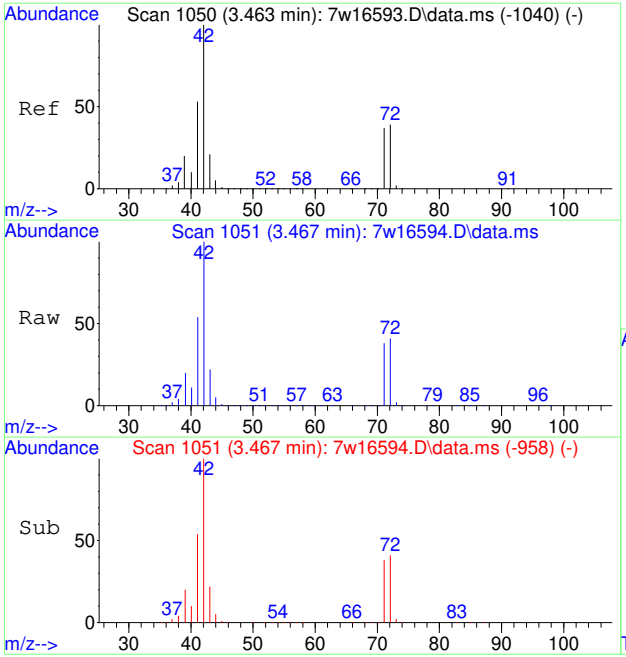


#36
METHYL TERTIARY BUTYL ETHER
Concen: 60.14 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 73 Resp: 2004125

Ion	Ratio	Lower	Upper
73	100		
45	5.5	4.1	7.5

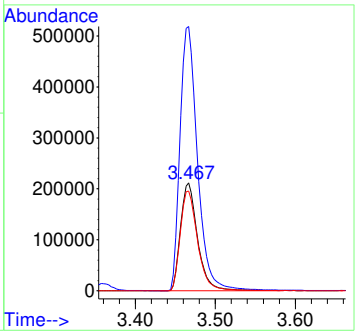


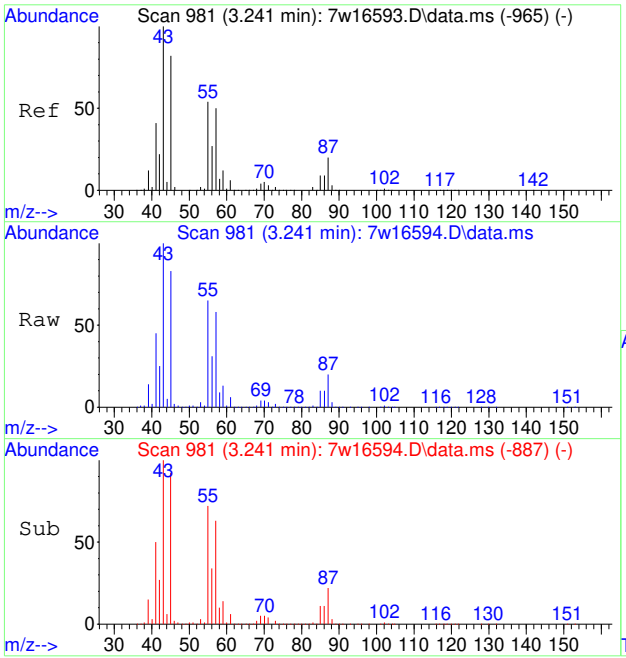


#37
TETRAHYDROFURAN
Concen: 58.71 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 315623

Ion	Ratio	Lower	Upper
72	100		
42	250.8	180.3	334.8
71	94.1	65.8	122.2

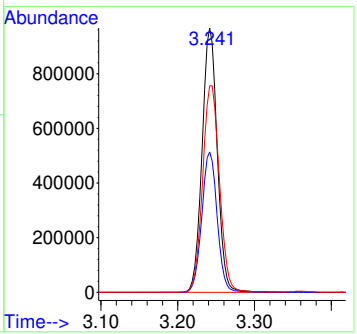


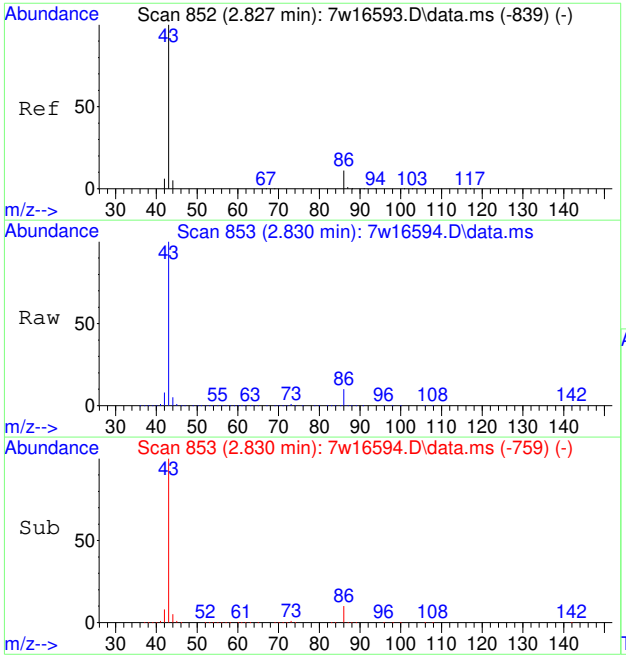


#38
HEXANE
Concen: 59.12 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1329253

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	86.9	65.9	122.5

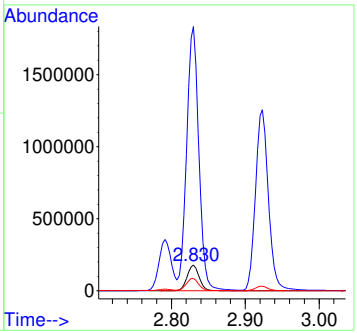


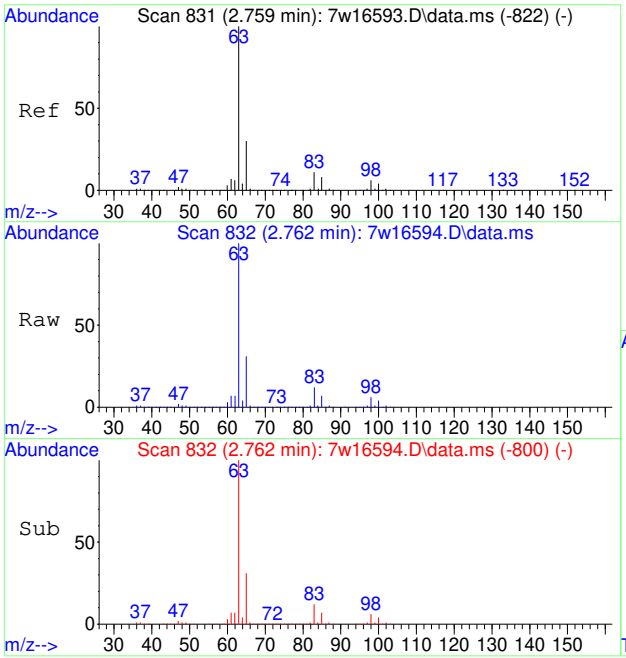


#39
VINYL ACETATE
Concen: 64.15 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 86 Resp: 203564

Ion	Ratio	Lower	Upper
86	100		
43	1037.6	758.7	1408.9
44	49.0	39.5	73.3

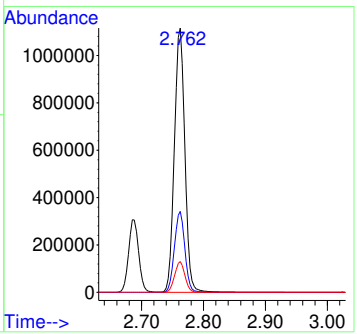


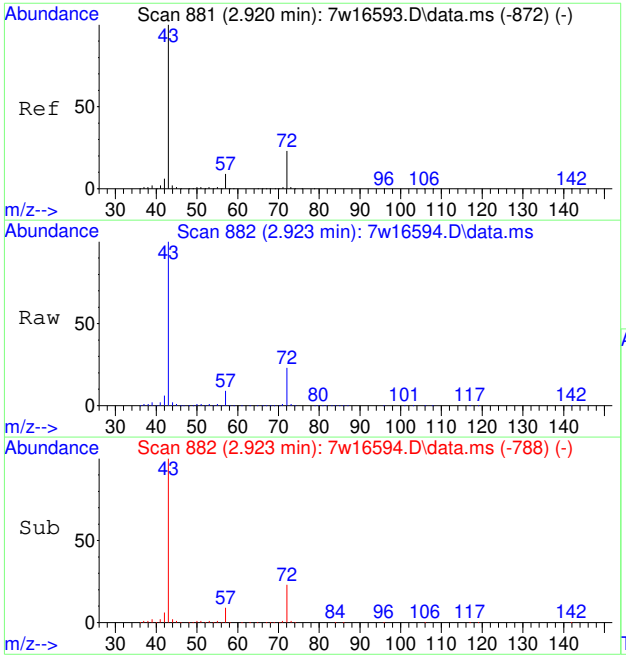


#40
1,1-DICHLOROETHANE
Concen: 57.90 PPBV
RT: 2.762 min Scan# 832
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 1312399

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.4	39.8
83	11.6	8.3	15.5

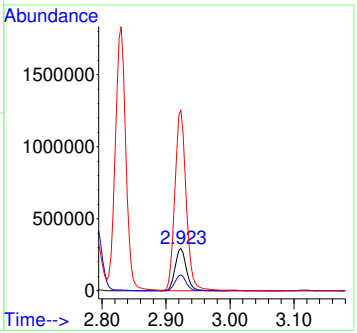


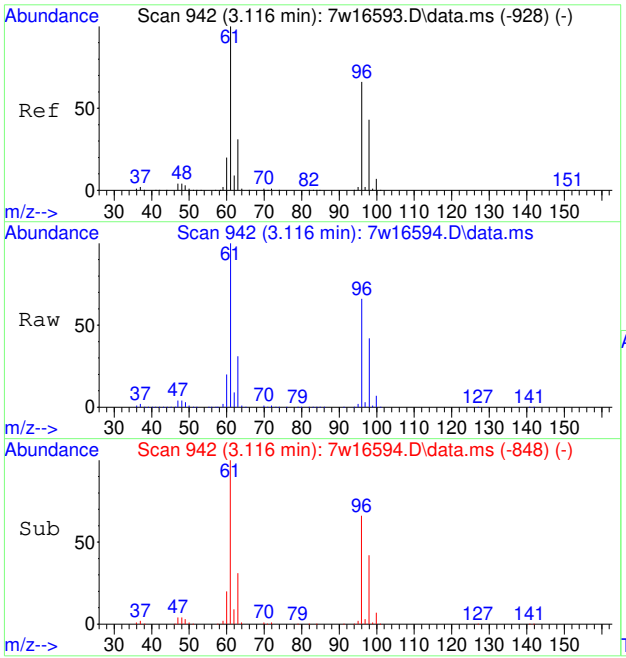


#41
METHYL ETHYL KETONE
Concen: 58.79 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 360548

Ion	Ratio	Lower	Upper
72	100		
57	37.4	26.9	49.9
43	429.0	309.4	574.6

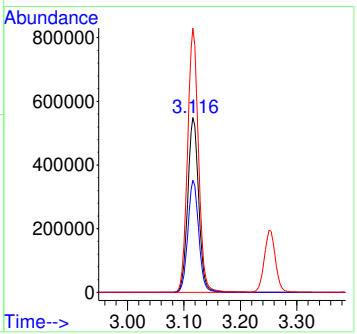


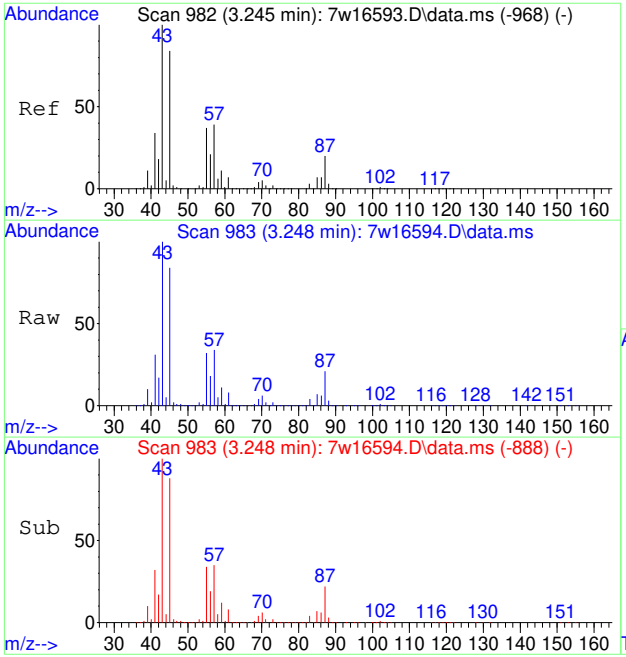


#42
CIS-1,2-DICHLOROETHENE
Concen: 60.78 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 737182

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	150.4	107.3	199.3

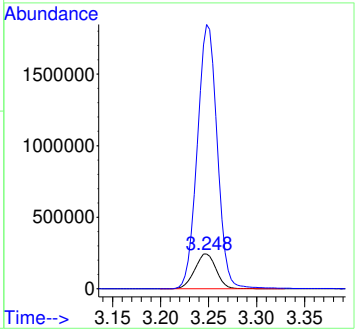


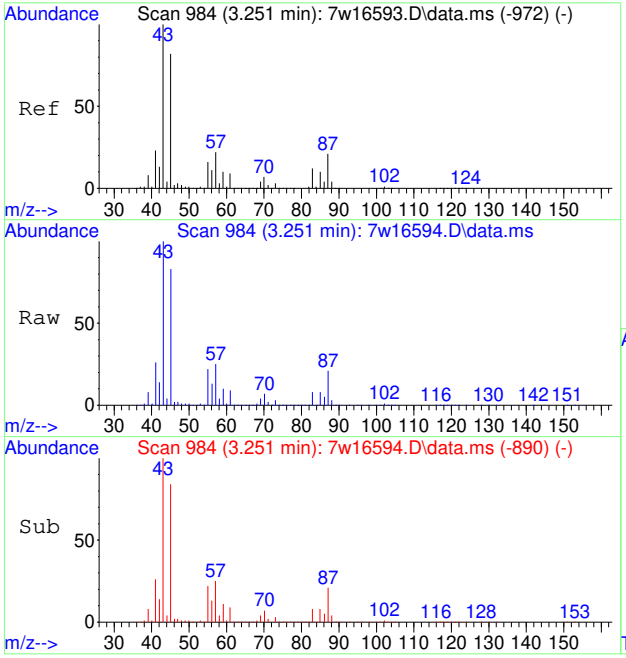


#43
DIISOPROPYL ETHER
Concen: 59.86 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 381162

Ion	Ratio	Lower	Upper
59	100		
45	704.4	517.6	961.2

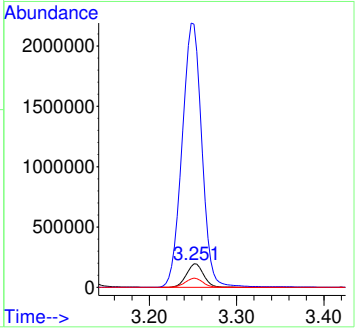


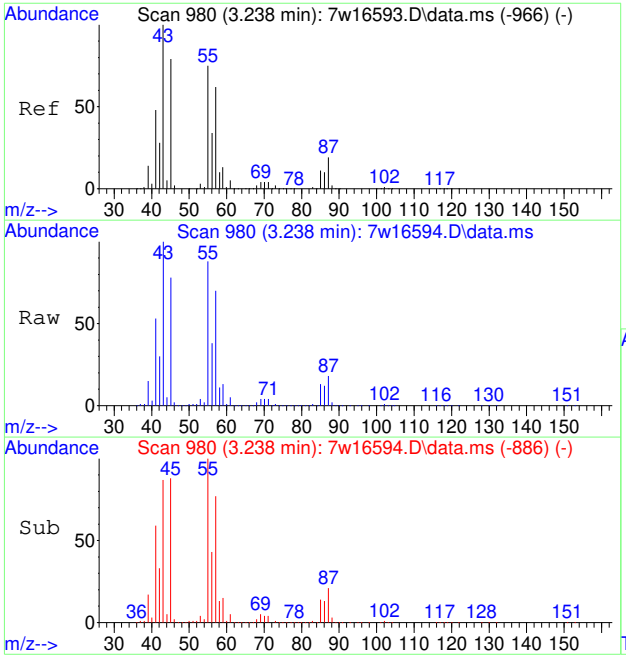


#44
ETHYL ACETATE
Concen: 63.06 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 61 Resp: 270078

Ion	Ratio	Lower	Upper
61	100		
43	1278.6	955.4	1774.4
88	40.5	27.6	51.2

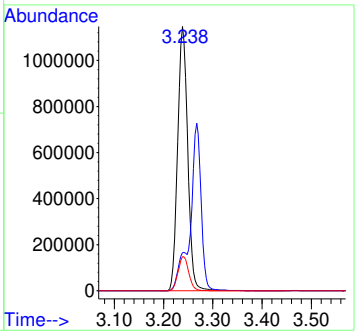


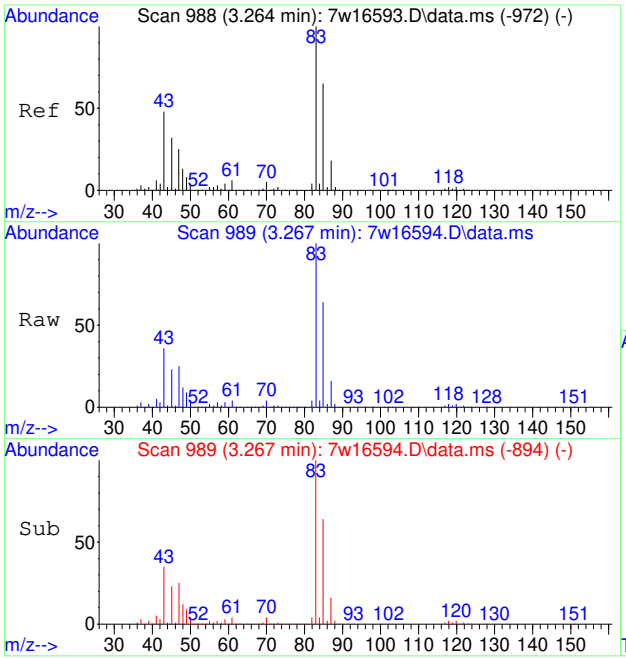


#45
METHYL ACRYLATE
Concen: 60.36 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 1639035

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

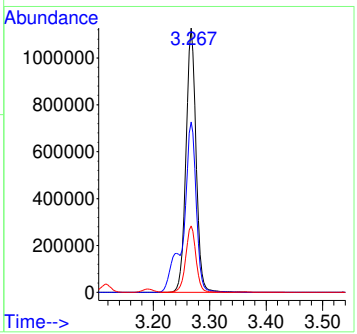


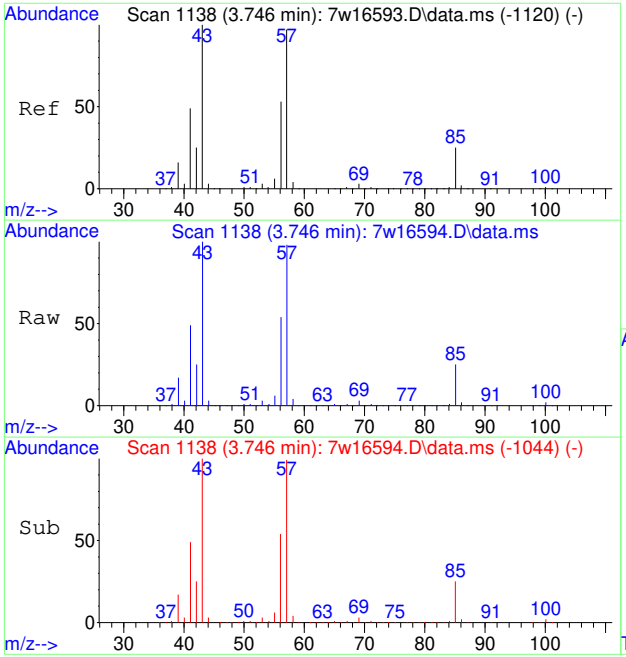


#46
CHLOROFORM
Concen: 59.52 PPBV
RT: 3.267 min Scan# 989
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1396609

Ion	Ratio	Lower	Upper
83	100		
85	81.5	56.0	104.0
47	25.8	19.0	35.4

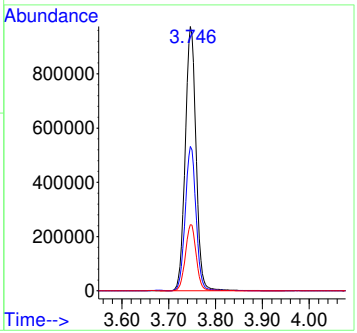


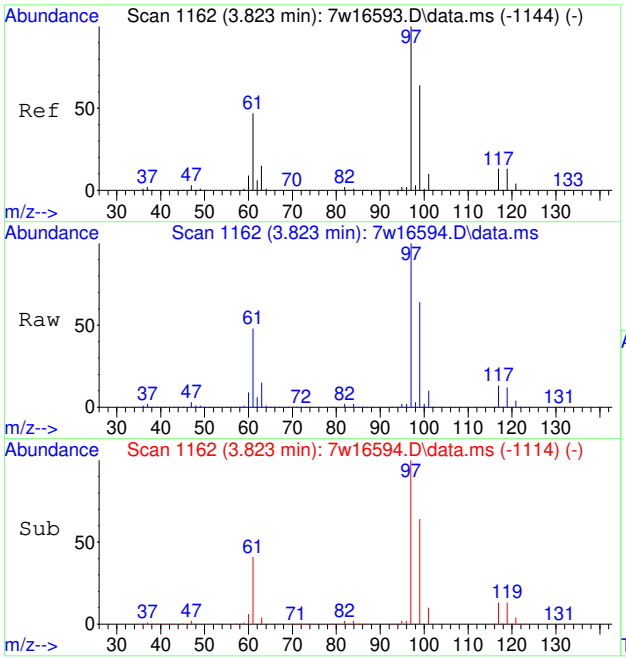


#47
2,4-DIMETHYLPENTANE
Concen: 62.29 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1562455

Ion	Ratio	Lower	Upper
57	100		
56	54.7	38.4	71.2
85	25.2	17.5	32.5

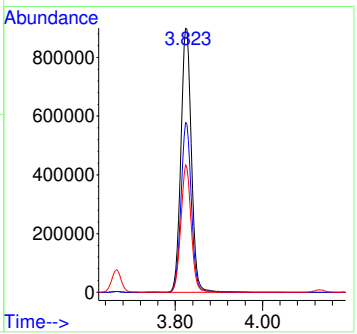


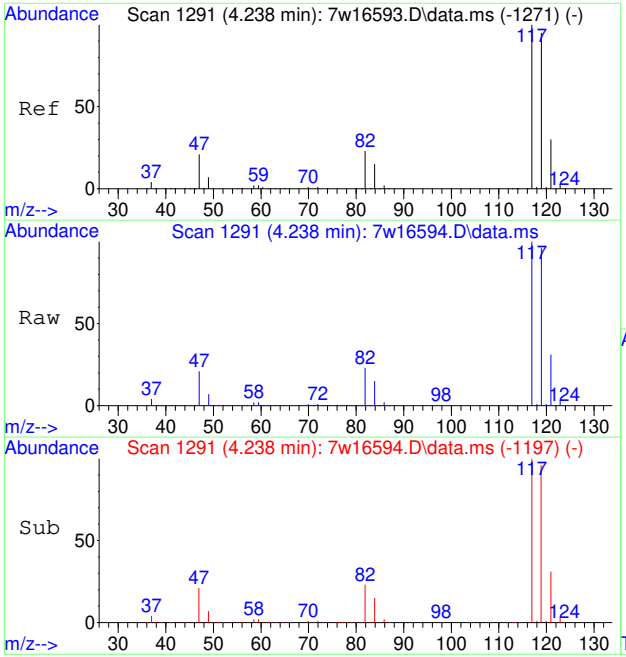


#48
1,1,1-TRICHLOROETHANE
Concen: 61.02 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 97 Resp: 1503844

Ion	Ratio	Lower	Upper
97	100		
99	63.9	45.0	83.6
61	47.7	34.7	64.5

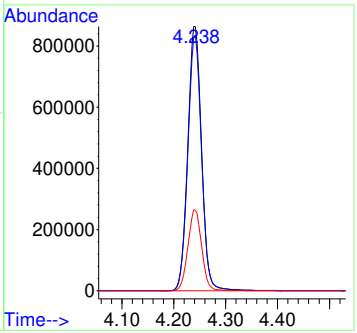


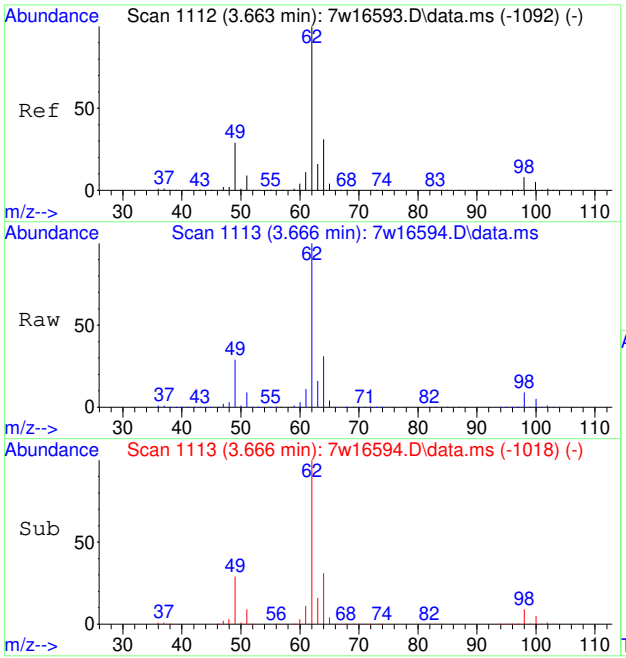


#49
CARBON TETRACHLORIDE
Concen: 62.67 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1592865

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.5	125.3
121	30.7	21.3	39.5

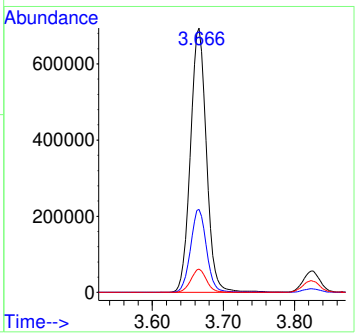


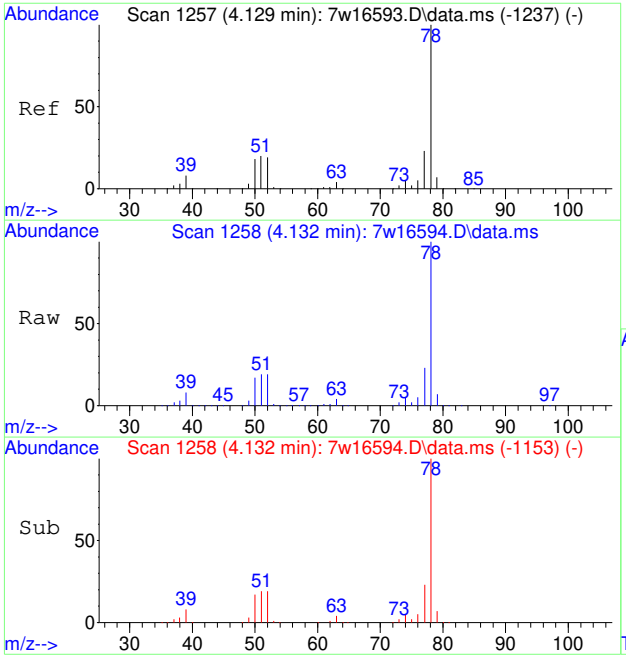


#50
1,2-DICHLOROETHANE
Concen: 59.76 PPBV
RT: 3.666 min Scan# 1113
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 1086518

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.7	5.8	10.8

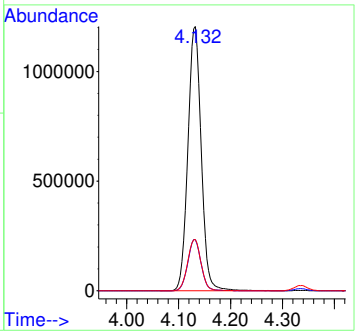


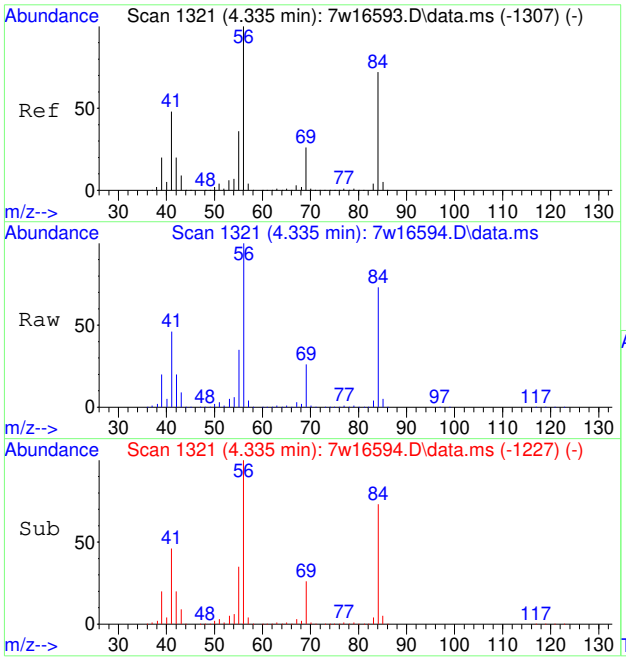


#51
BENZENE
Concen: 59.55 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 78 Resp: 2141182

Ion	Ratio	Lower	Upper
78	100		
52	19.5	0.0	49.9
51	19.7	0.0	50.6

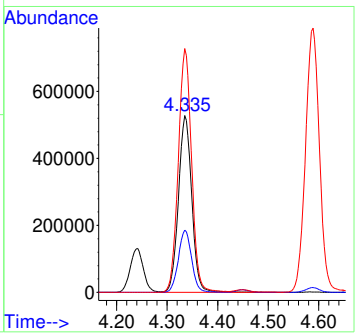


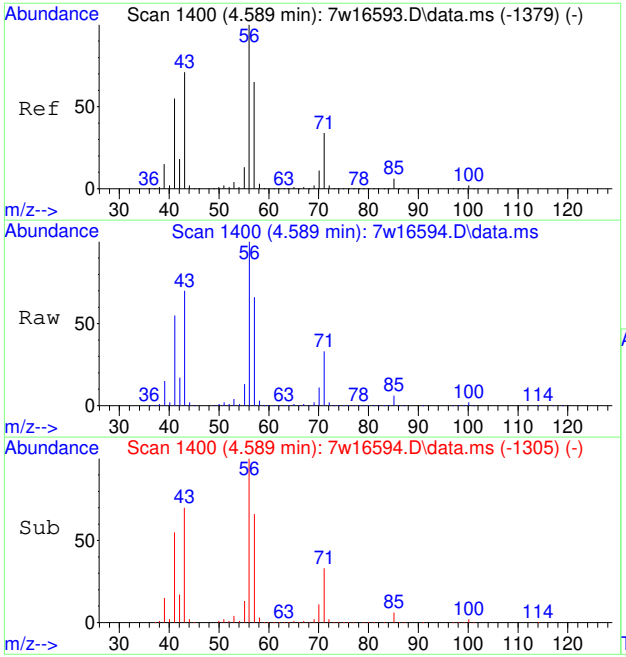


#53
CYCLOHEXANE
Concen: 62.31 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 968144

Ion	Ratio	Lower	Upper
84	100		
69	35.1	24.6	45.6
56	137.7	96.4	179.0

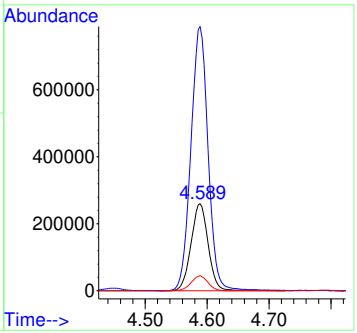


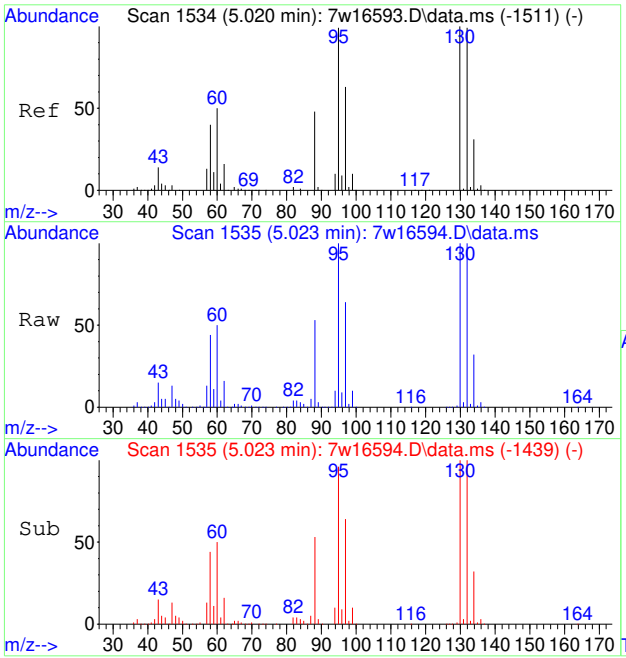


#54
2,3-DIMETHYLPENTANE
Concen: 64.89 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 71 Resp: 501690

Ion	Ratio	Lower	Upper
71	100		
56	303.6	213.2	396.0
85	17.4	12.2	22.6

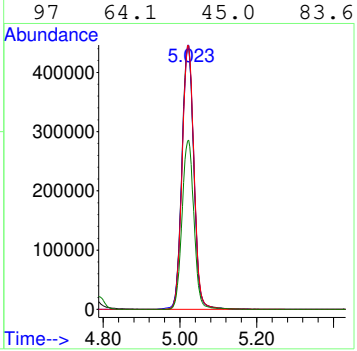


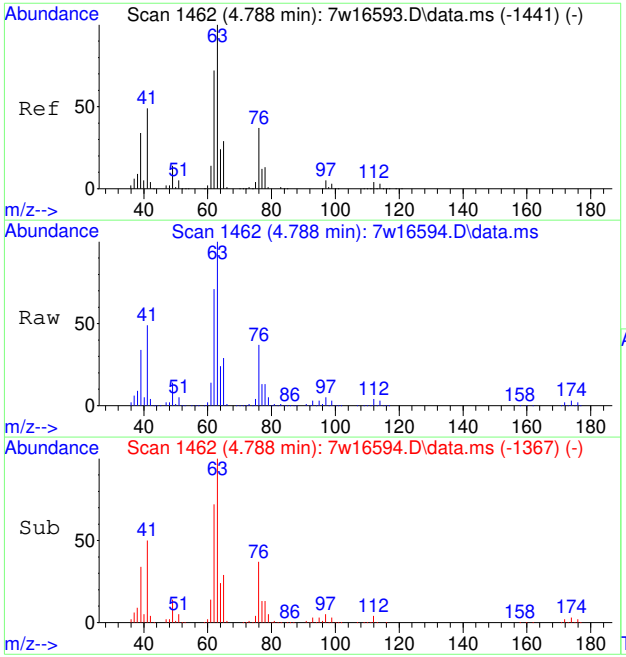


#55
TRICHLOROETHENE
Concen: 57.89 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 95 Resp: 961087

Ion	Ratio	Lower	Upper
95	100		
130	100.0	69.4	129.0
132	99.5	69.4	128.8
97	64.1	45.0	83.6

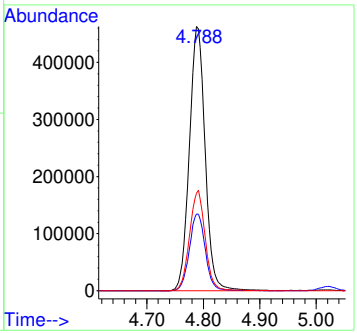


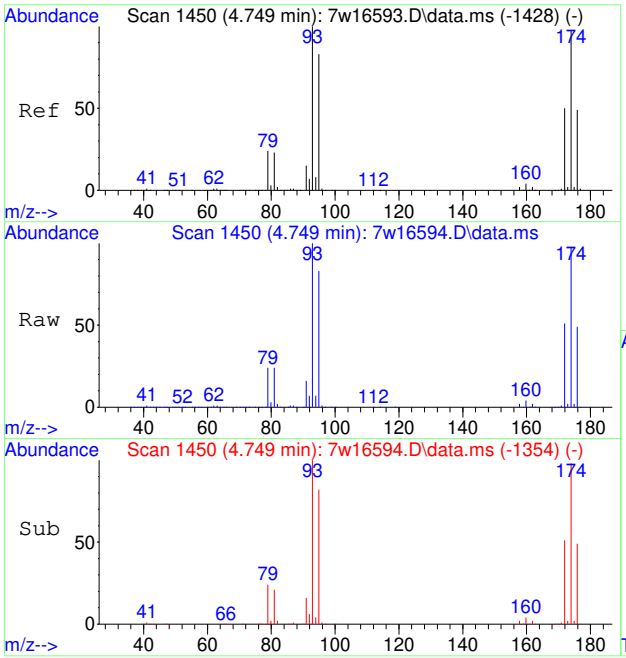


#56
1,2-DICHLOROPROPANE
Concen: 61.43 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 899764

Ion	Ratio	Lower	Upper
63	100		
65	29.5	20.5	38.1
76	37.8	27.1	50.3

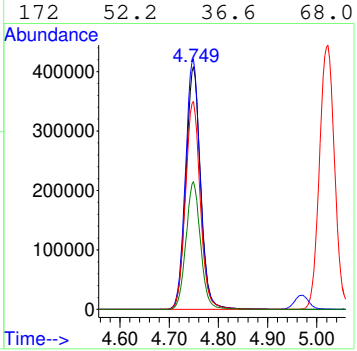


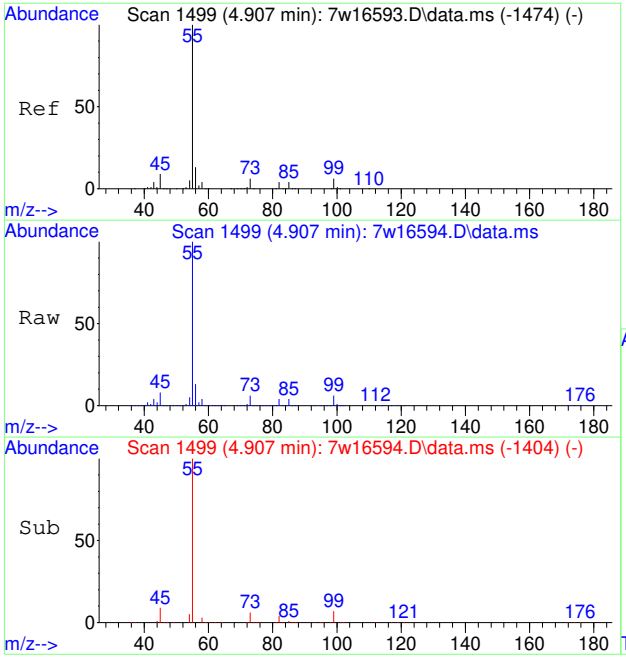


#57
DIBROMOMETHANE
Concen: 59.53 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:174 Resp: 843168

Ion	Ratio	Lower	Upper
174	100		
93	104.3	75.3	139.9
95	87.0	62.4	115.8
172	52.2	36.6	68.0

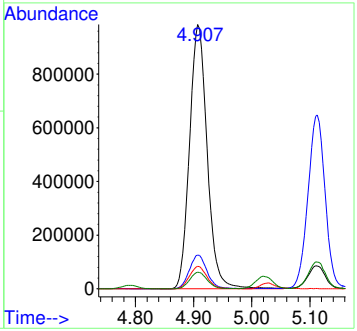


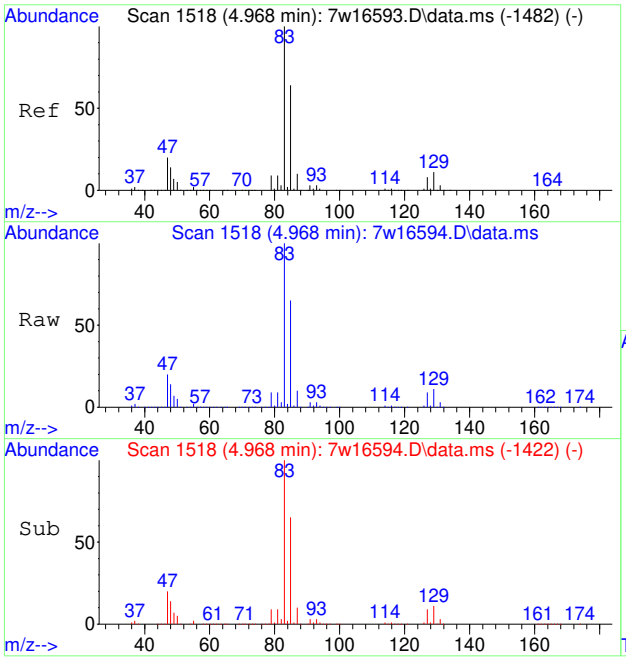


#58
ETHYL ACRYLATE
Concen: 63.61 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 2081872

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.5	6.1	11.3
99	6.2	4.3	8.1

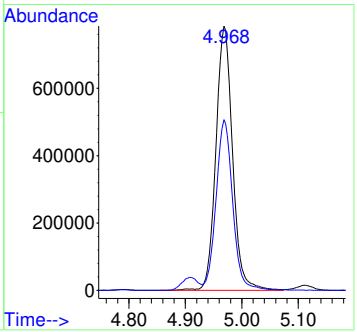


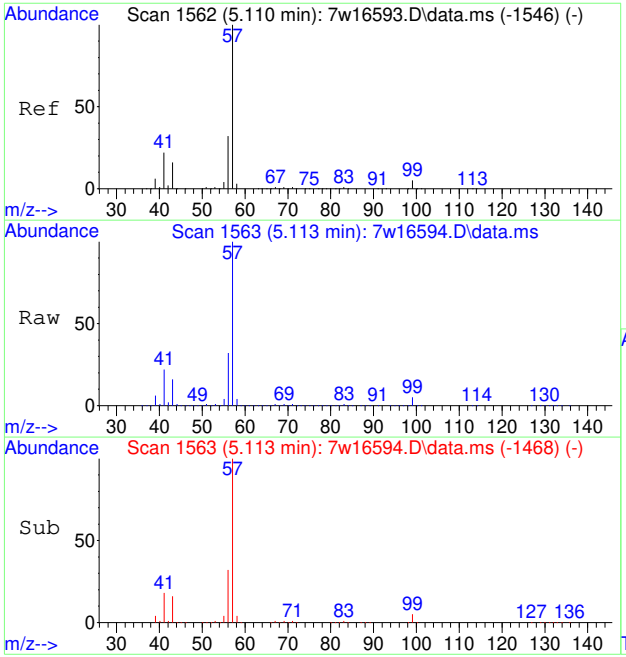


#59
BROMODICHLOROMETHANE
Concen: 60.60 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1618277

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

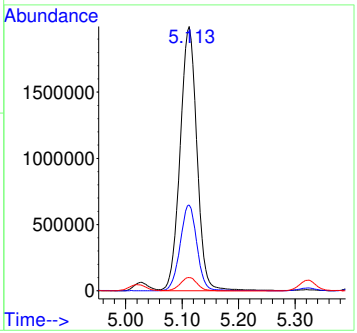


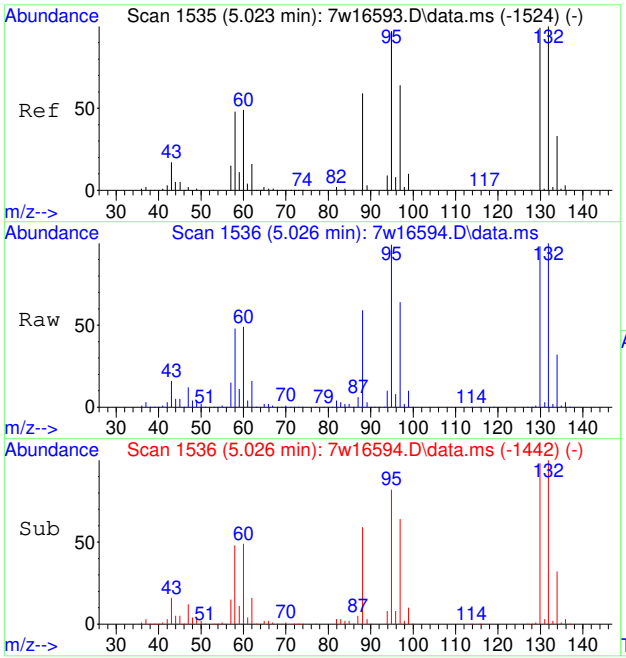


#60
2,2,4-TRIMETHYLPENTANE
Concen: 57.19 PPBV
RT: 5.113 min Scan# 1563
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 4127531

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

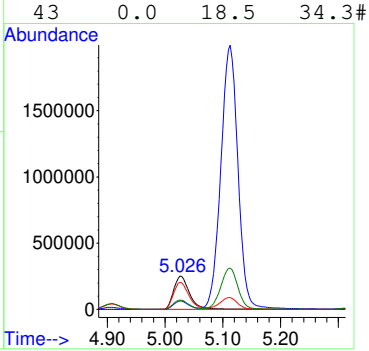


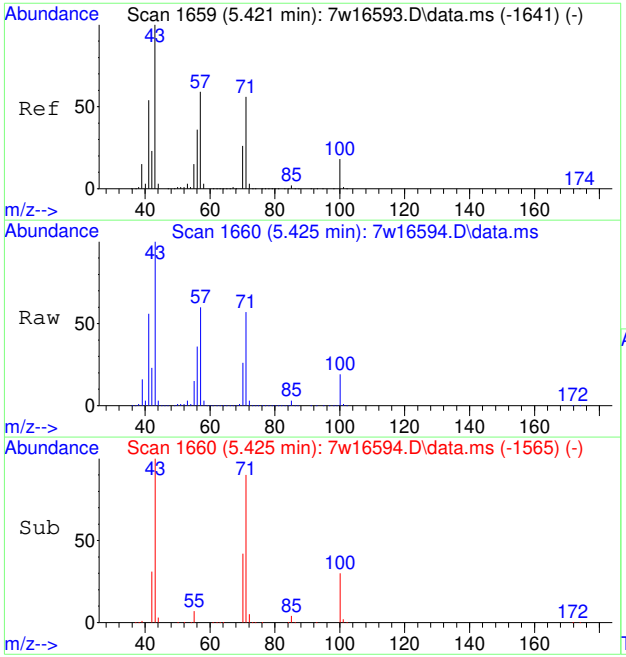


#61
1,4-DIOXANE
Concen: 61.98 PPBV m
RT: 5.026 min Scan# 1536
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 88 Resp: 483214

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

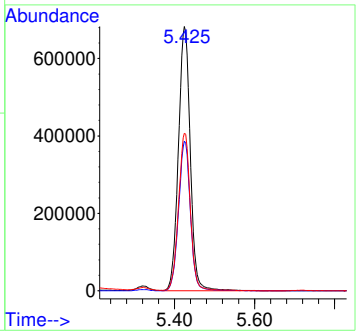


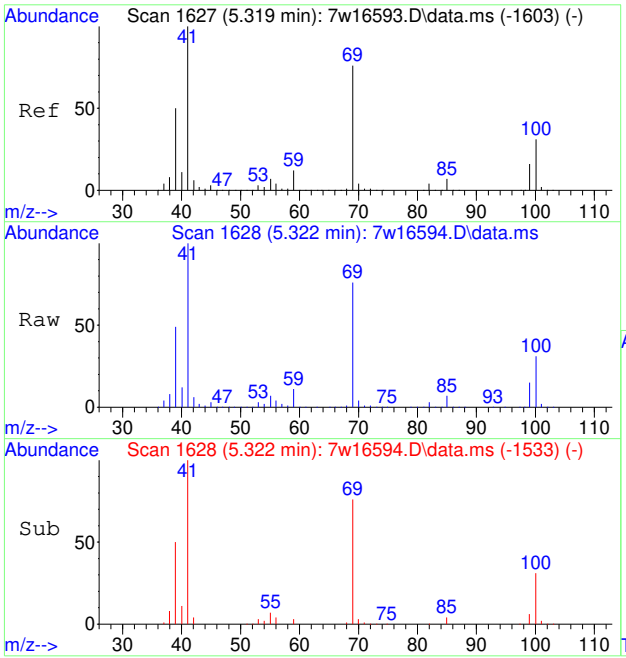


#62
HEPTANE
Concen: 59.03 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1404941

Ion	Ratio	Lower	Upper
43	100		
71	56.5	38.9	72.2
57	59.8	40.5	75.3

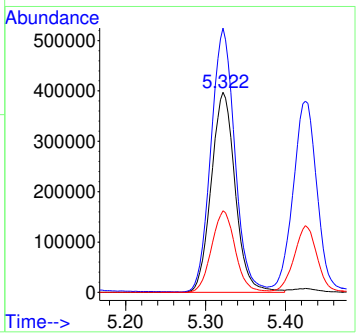


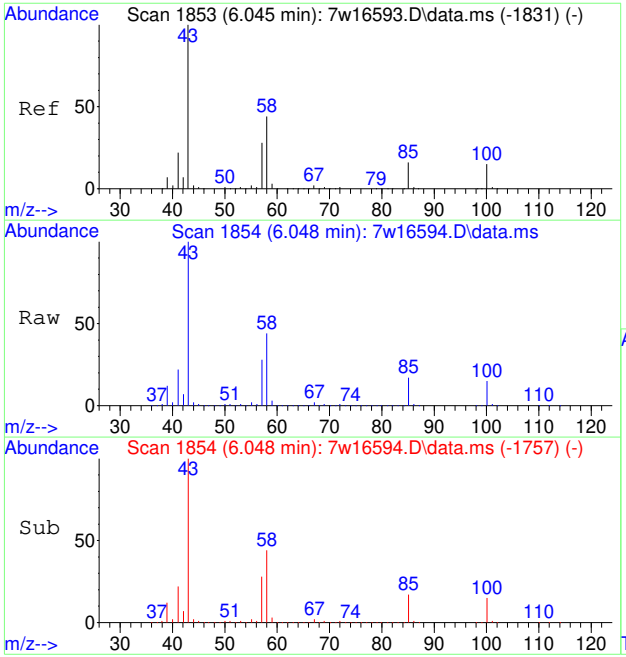


#63
METHYL METHACRYLATE
Concen: 62.06 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 825175

Ion	Ratio	Lower	Upper
69	100		
41	130.8	95.5	177.4
100	40.3	28.1	52.1

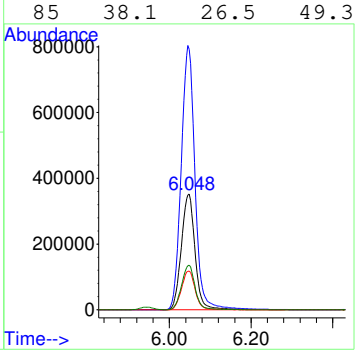


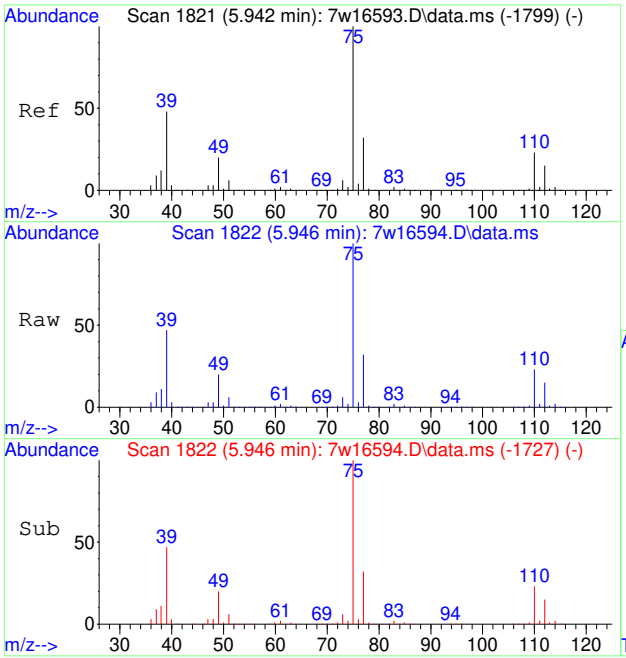


#64
METHYL ISOBUTYL KETONE
Concen: 57.66 PPBV
RT: 6.048 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 823387

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.8	23.2	43.2
85	38.1	26.5	49.3

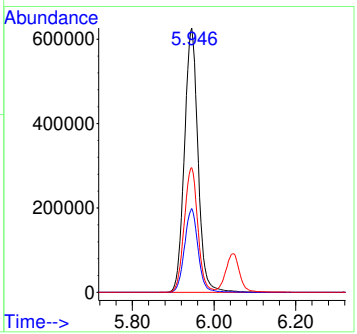


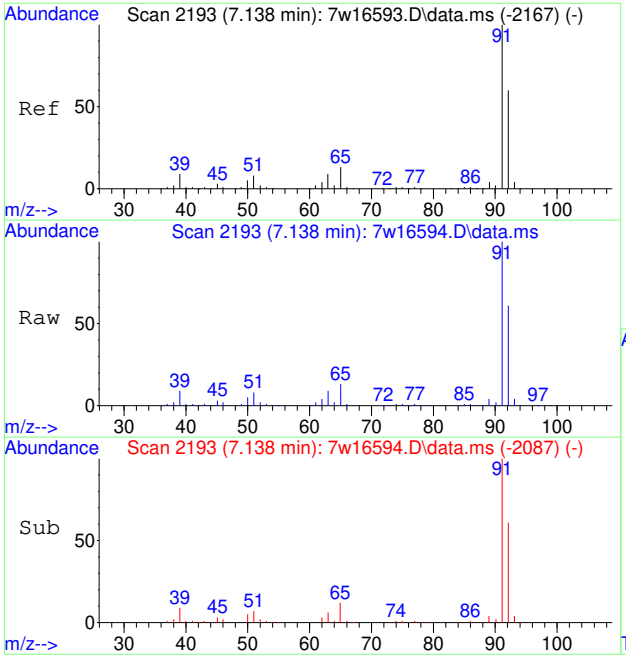


#65
CIS-1,3-DICHLOROPROPENE
Concen: 64.81 PPBV
RT: 5.946 min Scan# 1822
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1444587

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.0	41.0
39	47.4	35.7	66.3

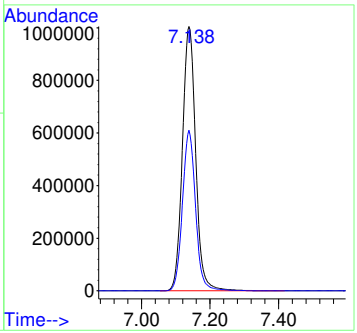


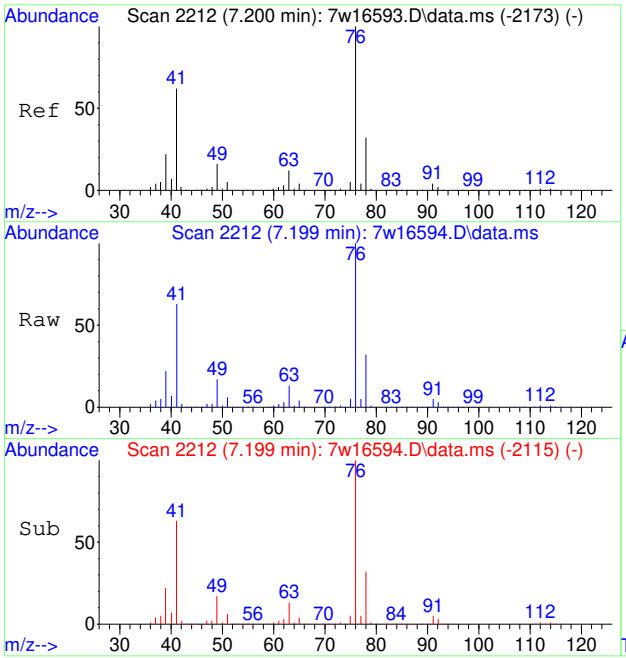


#66
TOLUENE
Concen: 63.95 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2694962

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

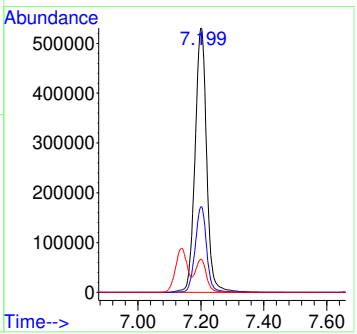


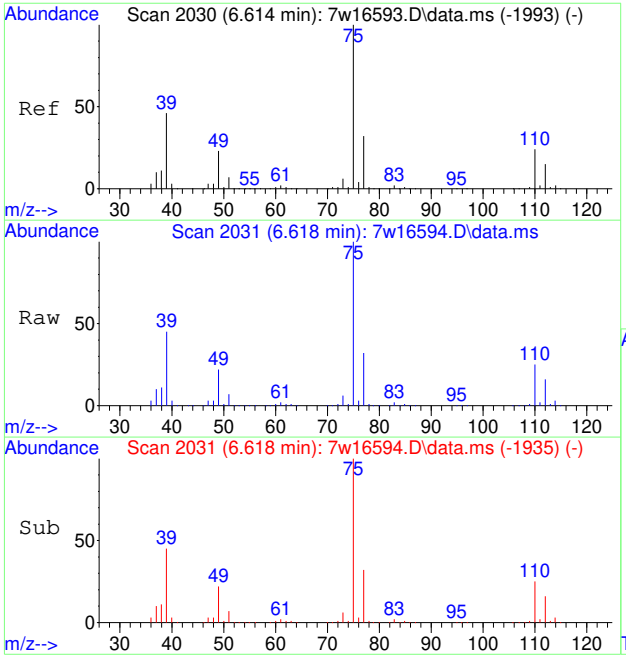


#67
1,3-DICHLOROPROPANE
Concen: 64.47 PPBV
RT: 7.199 min Scan# 2212
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1360921

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.7	8.3	15.5

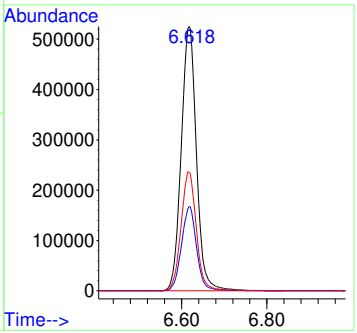


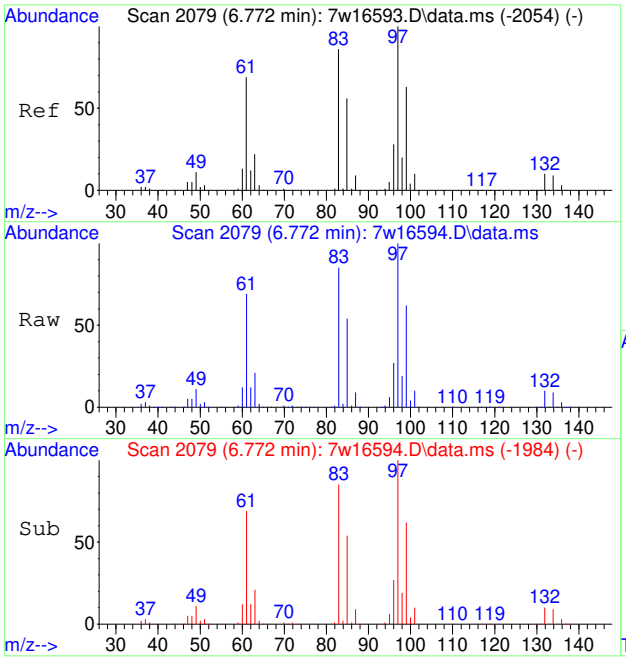


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 65.06 PPBV
RT: 6.618 min Scan# 2031
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1302469

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.3	41.5
39	45.4	33.9	63.0

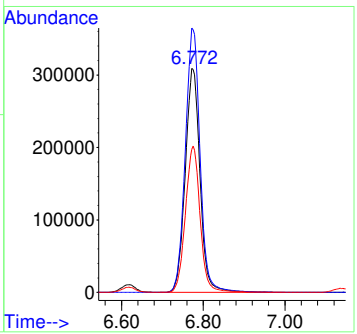


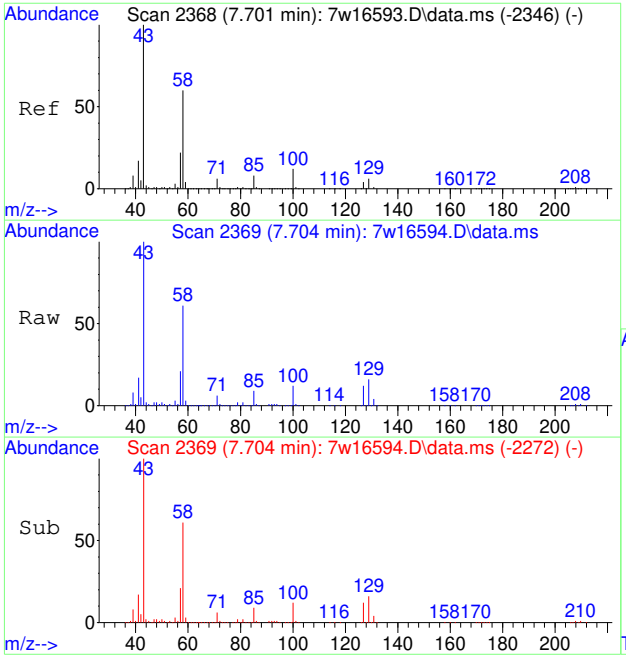


#69
1,1,2-TRICHLOROETHANE
Concen: 64.67 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 774964

Ion	Ratio	Lower	Upper
83	100		
97	0.0	81.2	150.8#
85	65.3	45.1	83.7

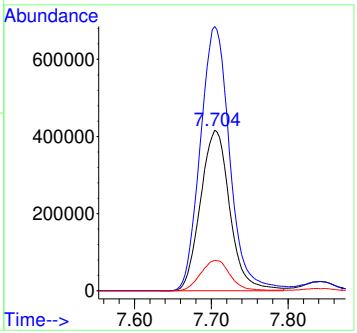


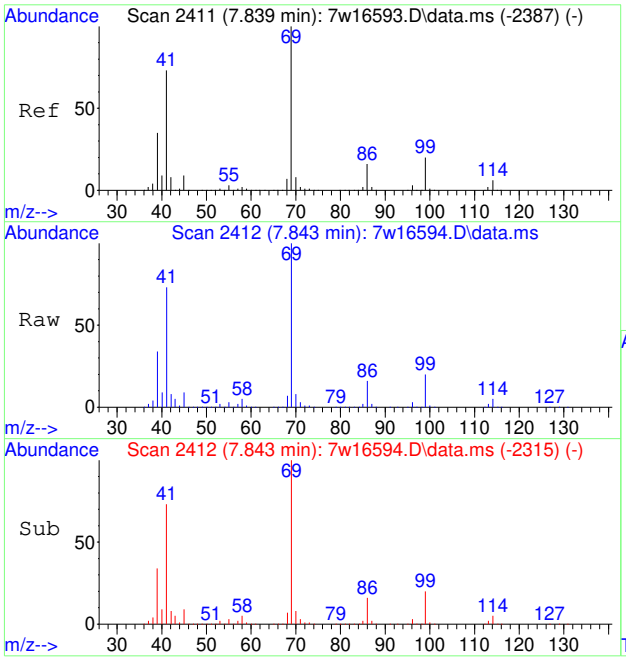


#70
2-HEXANONE
Concen: 55.20 PPBV
RT: 7.704 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 1106138

Ion	Ratio	Lower	Upper
58	100		
43	165.3	118.6	220.2
100	19.3	13.0	24.2

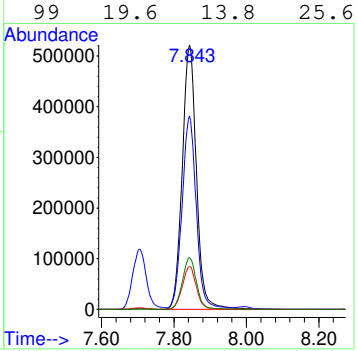


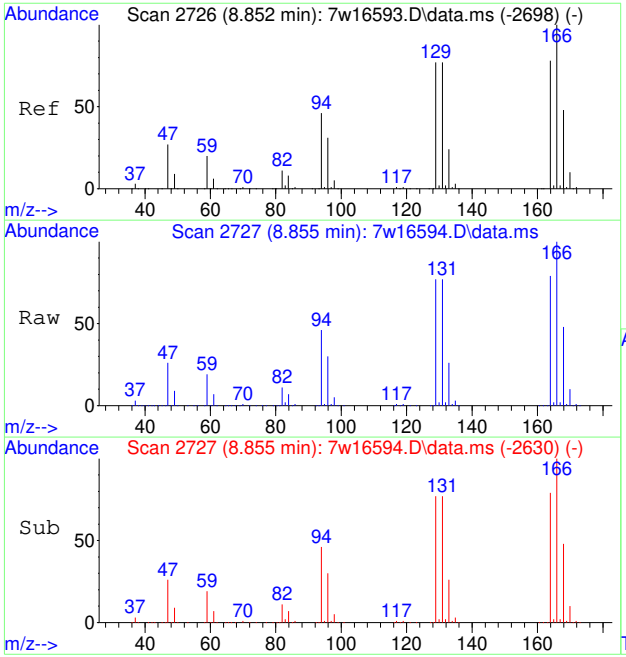


#71
ETHYL METHACRYLATE
Concen: 64.21 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 1420765

Ion	Ratio	Lower	Upper
69	100		
41	73.2	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

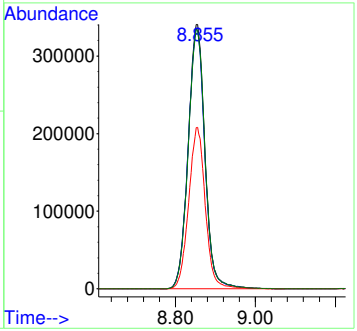


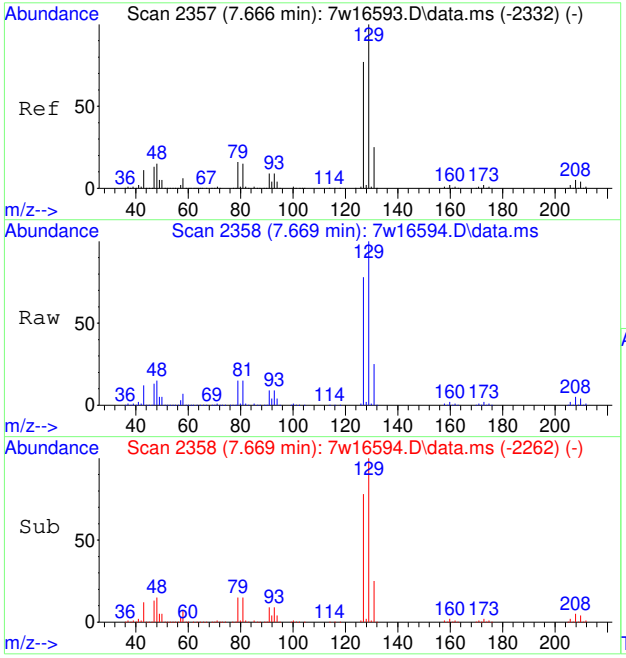


#72
TETRACHLOROETHENE
Concen: 64.80 PPBV
RT: 8.855 min Scan# 2727
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:164 Resp: 995678

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.4	69.4	129.0

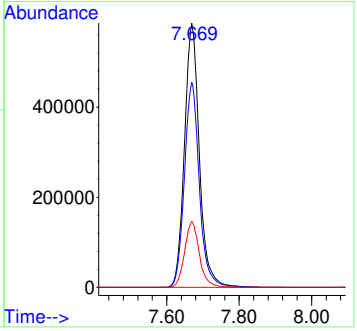


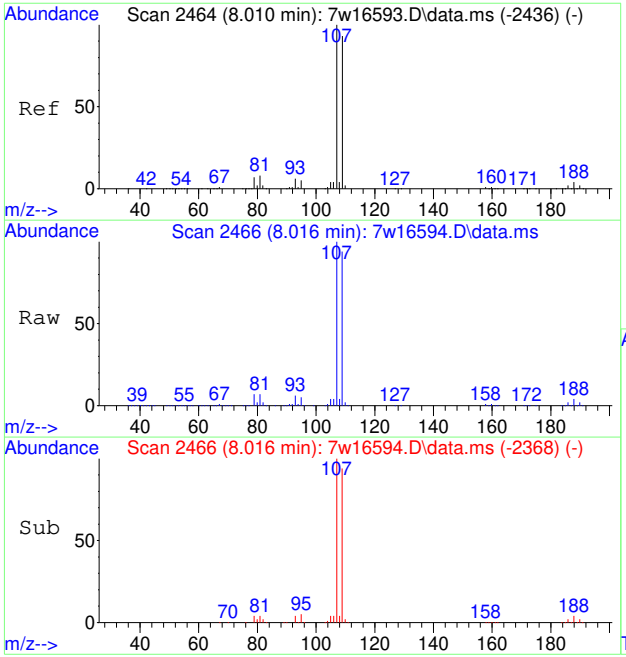


#73
DIBROMOCHLOROMETHANE
Concen: 69.22 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:129 Resp: 1671777

Ion	Ratio	Lower	Upper
129	100		
127	78.0	54.7	101.7
131	24.9	17.4	32.4

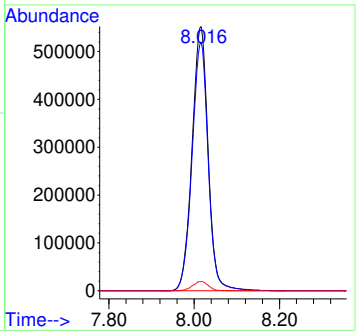


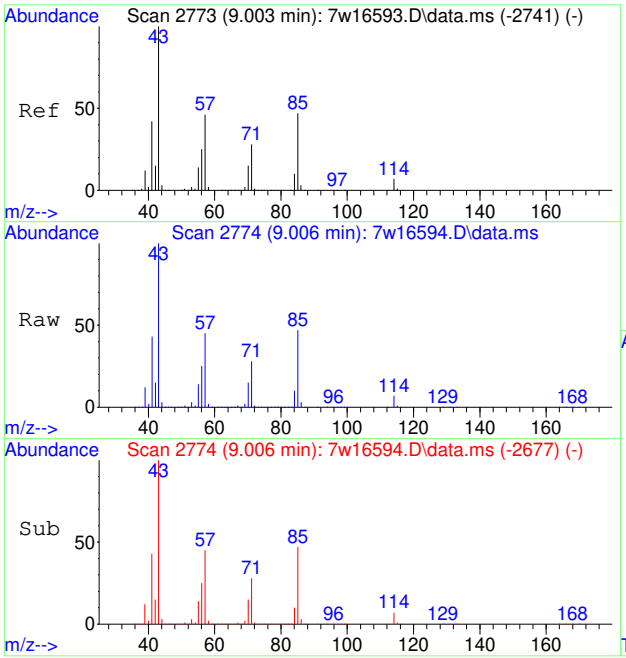


#74
1,2-DIBROMOETHANE
Concen: 66.89 PPBV
RT: 8.016 min Scan# 2466
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:107 Resp: 1452027

Ion	Ratio	Lower	Upper
107	100		
109	94.3	66.1	122.8
188	3.5	2.5	4.6

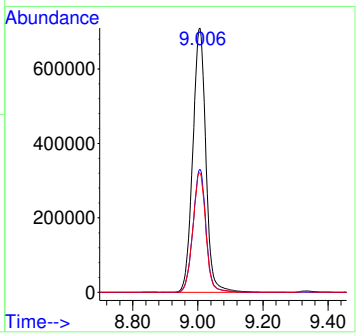


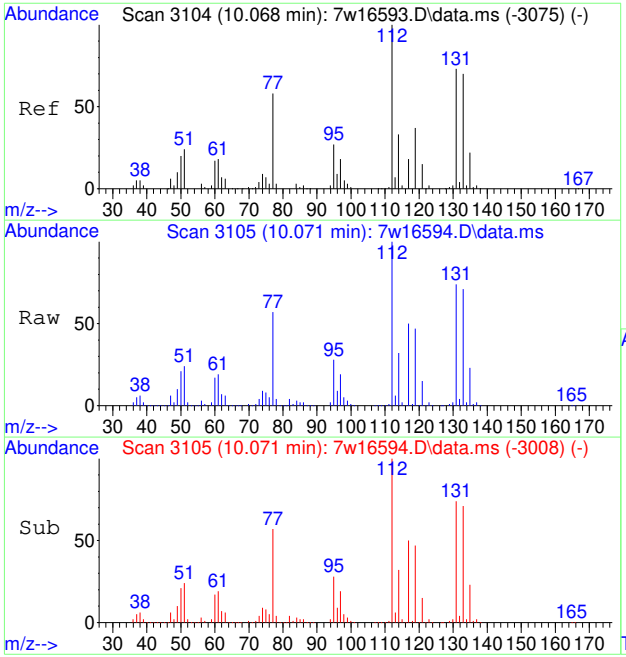


#75
OCTANE
Concen: 62.35 PPBV
RT: 9.006 min Scan# 2774
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1982903

Ion	Ratio	Lower	Upper
43	100		
85	46.5	31.8	59.0
57	45.3	31.4	58.2

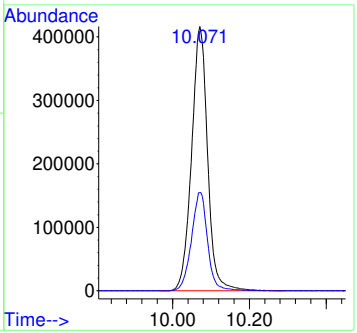


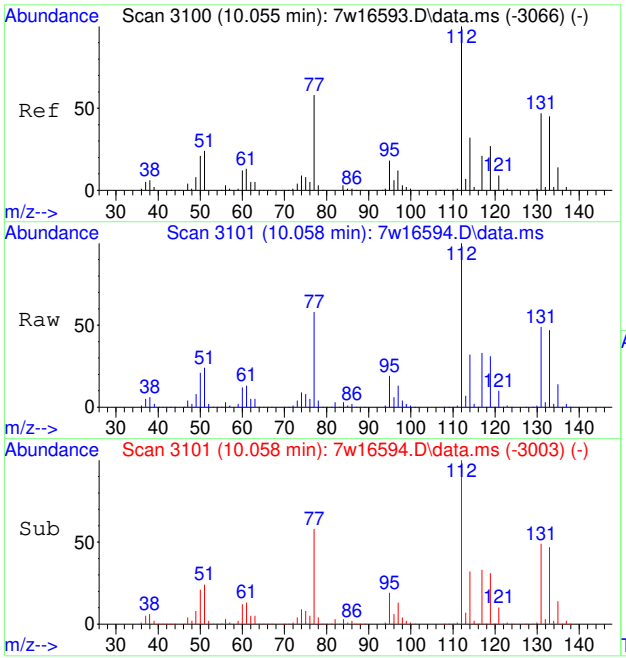


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 69.43 PPBV
RT: 10.071 min Scan# 3105
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:131 Resp: 1205798

Ion	Ratio	Lower	Upper
131	100		
95	37.5	26.5	49.1

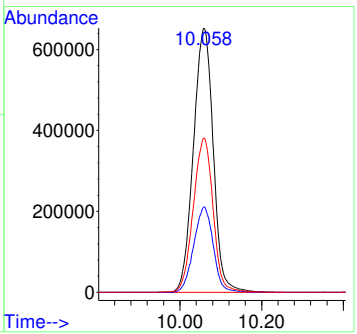


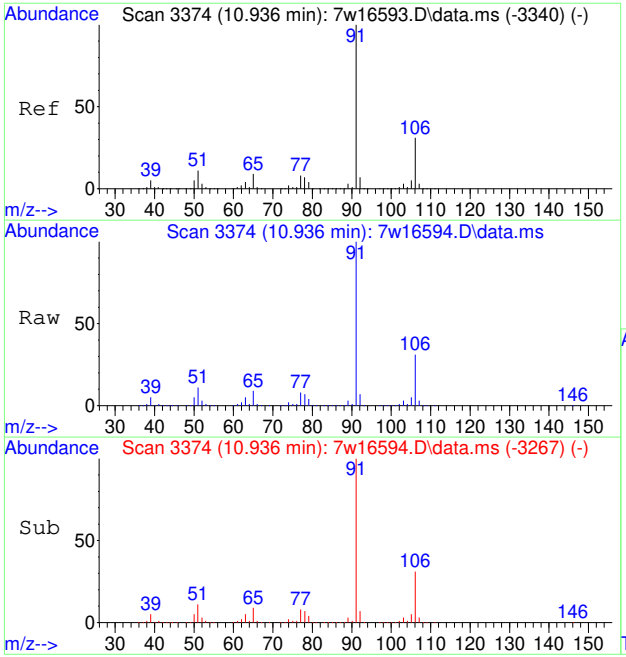


#78
CHLOROBENZENE
Concen: 66.36 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:112 Resp: 2204542

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.7
77	58.5	42.1	78.1

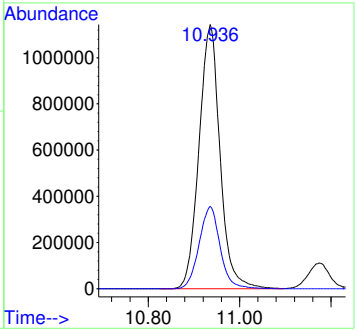


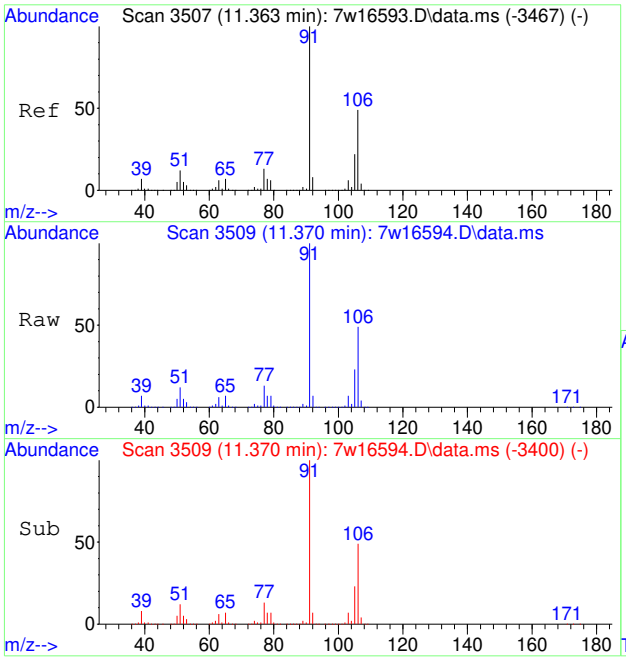


#79
ETHYLBENZENE
Concen: 67.08 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3650660

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

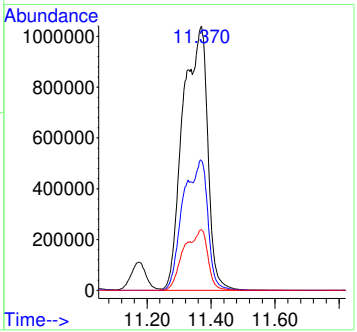


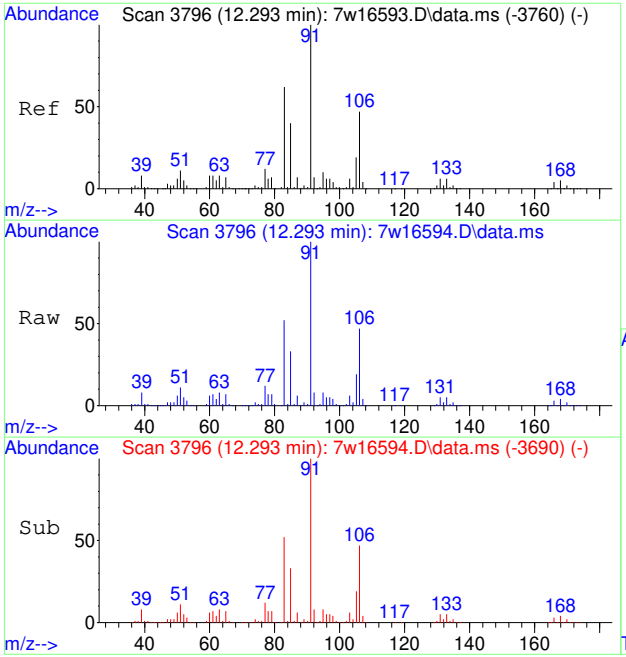


#80
M,P-XYLENE
Concen: 125.67 PPBV
RT: 11.370 min Scan# 3509
Delta R.T. 0.020 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 5556486

Ion	Ratio	Lower	Upper
91	100		
106	49.6	0.0	56.1
105	22.5	0.0	42.1

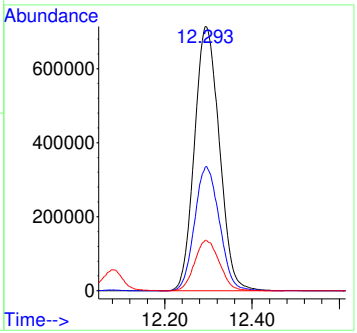


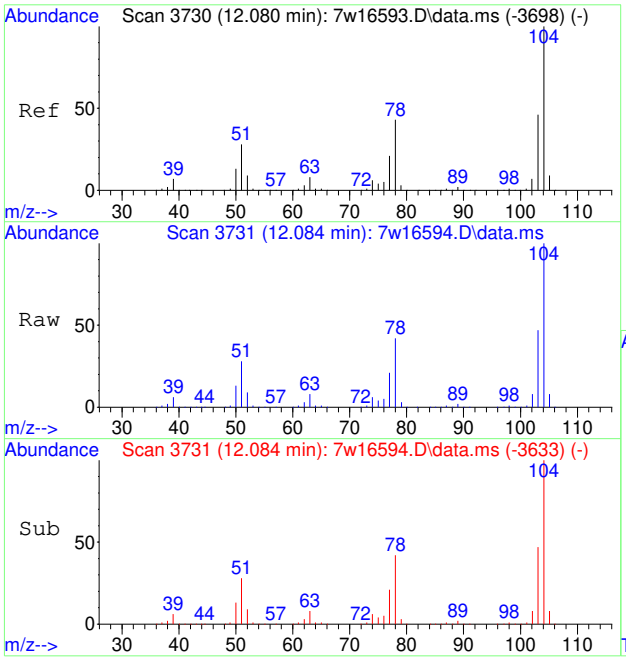


#81
O-XYLENE
Concen: 66.28 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2839567

Ion	Ratio	Lower	Upper
91	100		
106	46.7	31.8	59.0
105	19.1	13.0	24.2

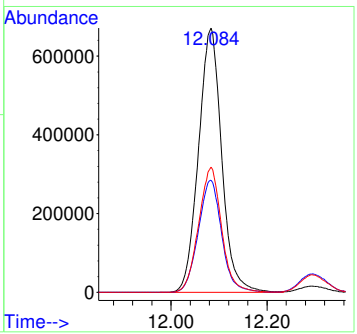


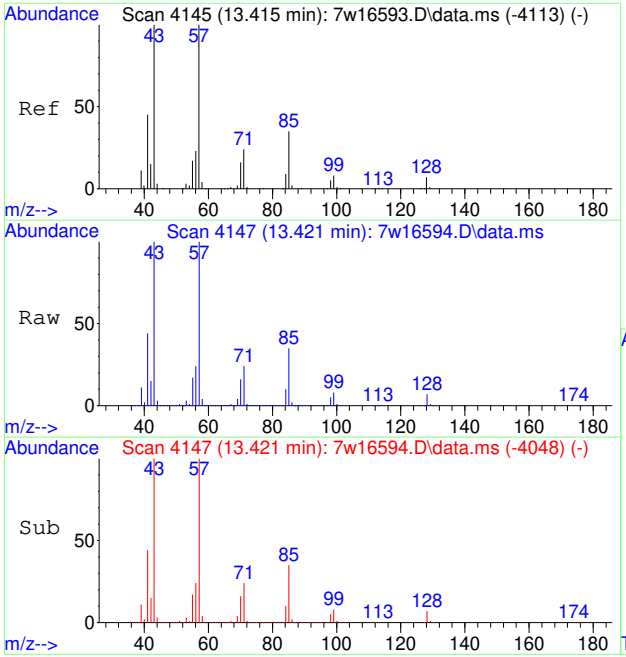


#82
STYRENE
Concen: 70.41 PPBV
RT: 12.084 min Scan# 3731
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:104 Resp: 2245416

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

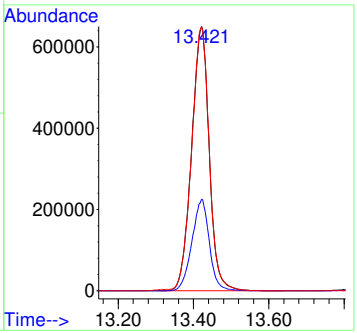


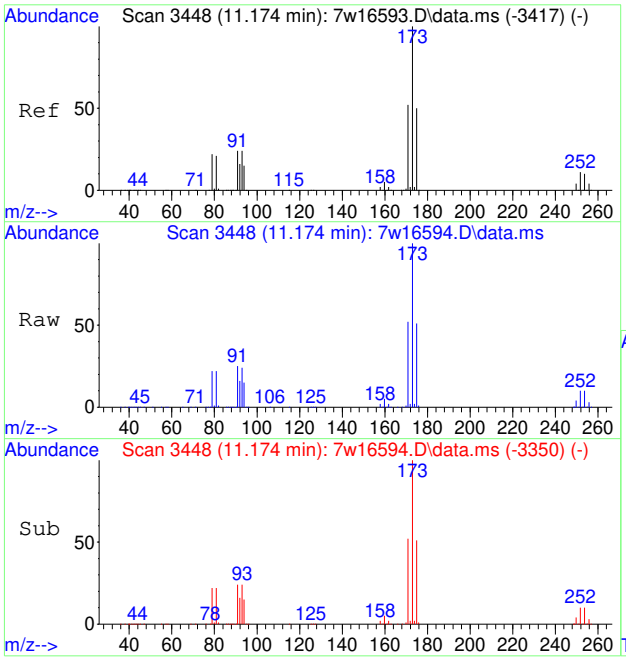


#83
NONANE
Concen: 63.10 PPBV
RT: 13.421 min Scan# 4147
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 2110946

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.8	69.2	128.6

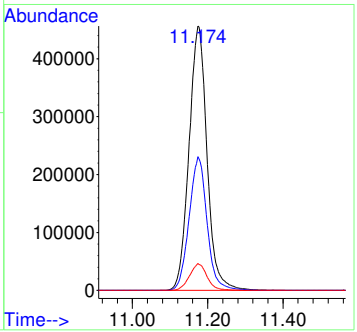


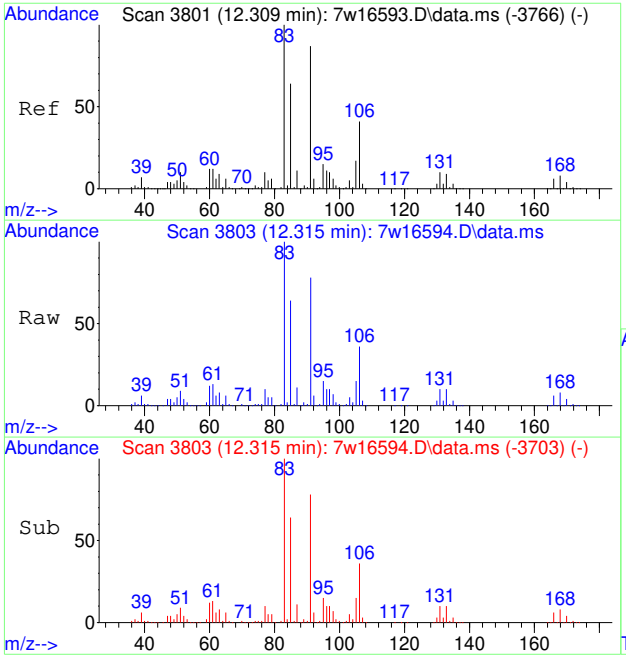


#84
BROMOFORM
Concen: 75.01 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:173 Resp: 1514711

Ion	Ratio	Lower	Upper
173	100		
175	50.3	35.1	65.1
254	9.9	6.7	12.5

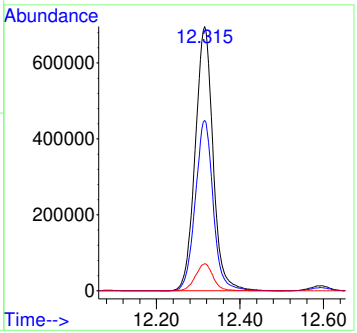


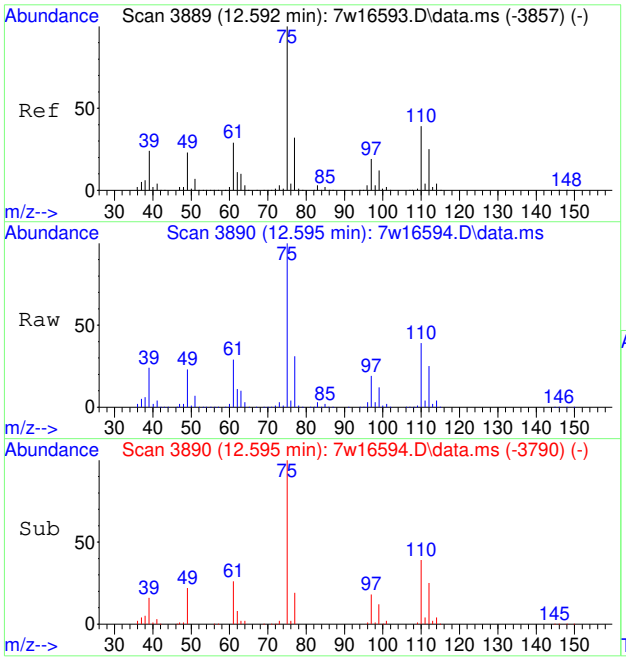


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 67.37 PPBV
RT: 12.315 min Scan# 3803
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 2064226

Ion	Ratio	Lower	Upper
83	100		
85	64.6	45.5	84.5
131	10.3	7.3	13.5

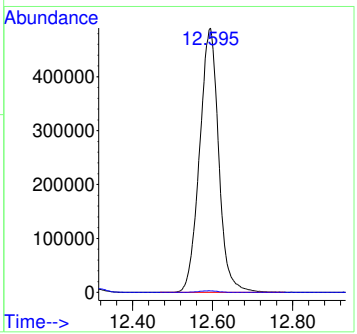


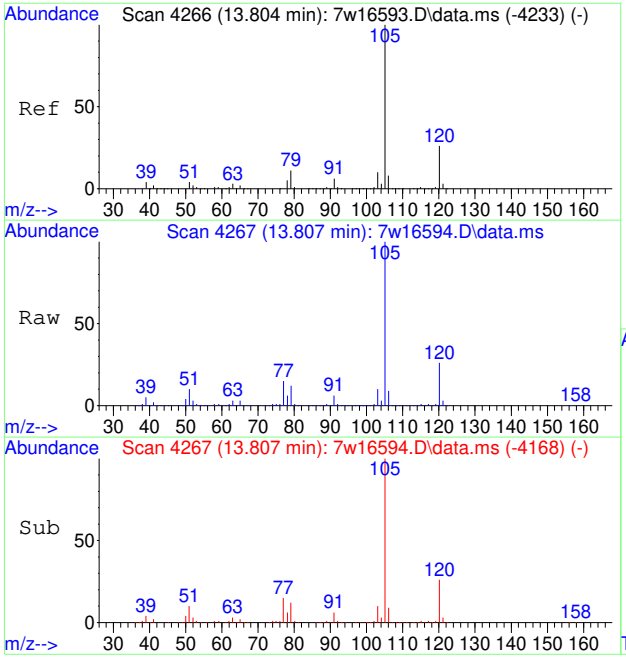


#86
1,2,3-TRICHLOROPROPANE
Concen: 67.69 PPBV
RT: 12.595 min Scan# 3890
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1624746

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

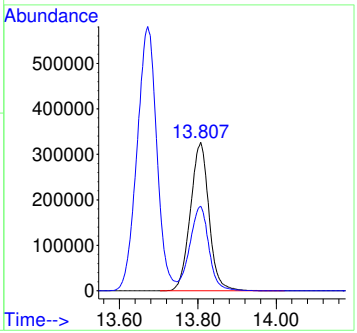


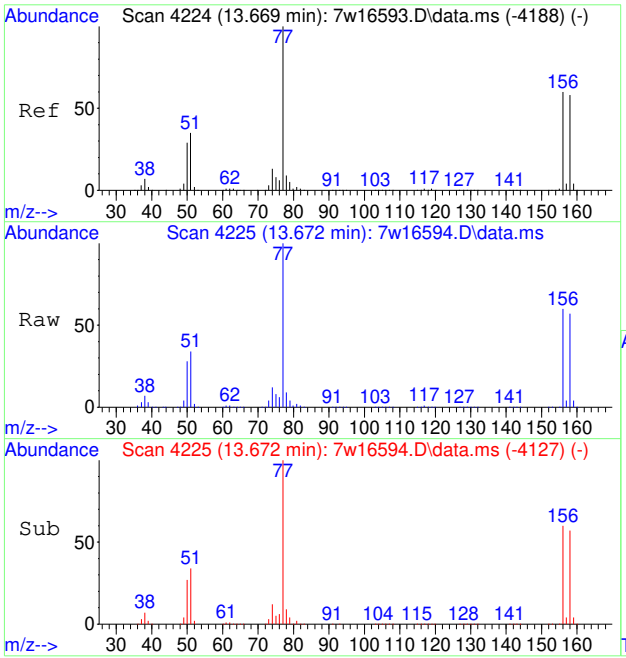


#88
ISOPROPYLBENZENE
Concen: 65.98 PPBV
RT: 13.807 min Scan# 4267
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1073063

Ion	Ratio	Lower	Upper
120	100		
77	58.2	42.5	78.9

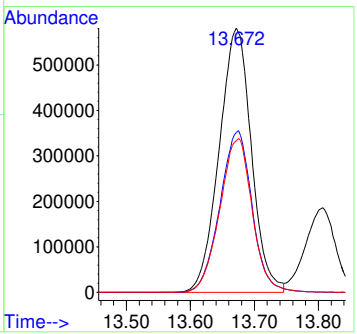


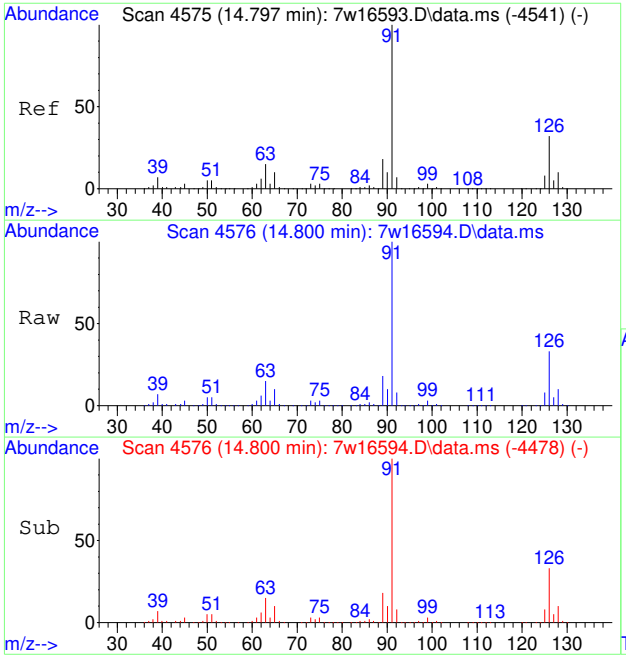


#89
BROMOBENZENE
Concen: 65.06 PPBV
RT: 13.672 min Scan# 4225
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 77 Resp: 2035109

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	58.7	40.9	76.0

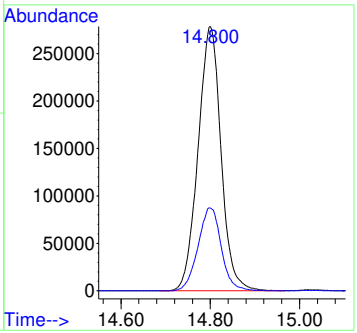


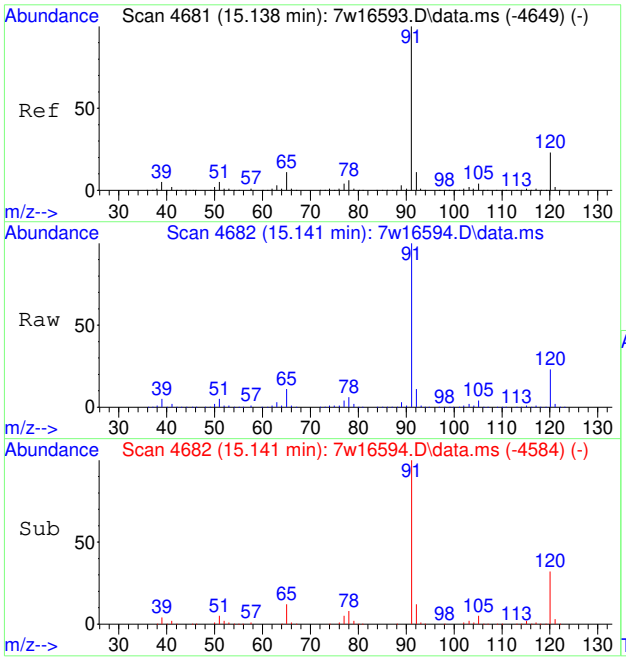


#90
2-CHLOROTOLUENE
Concen: 65.73 PPBV
RT: 14.800 min Scan# 4576
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:126 Resp: 993540

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.5	41.7

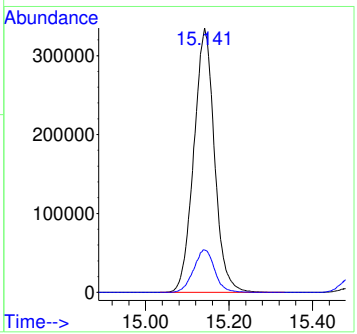


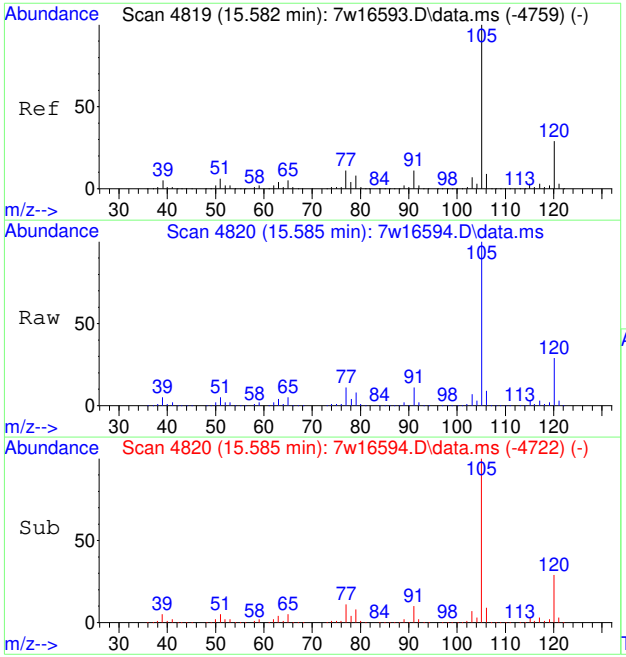


#91
N-PROPYLBENZENE
Concen: 66.71 PPBV
RT: 15.141 min Scan# 4682
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1146895

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

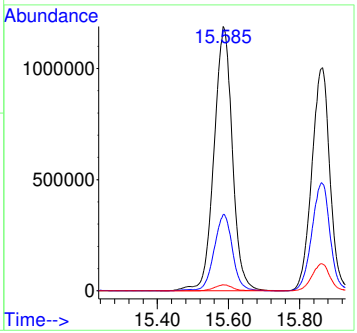


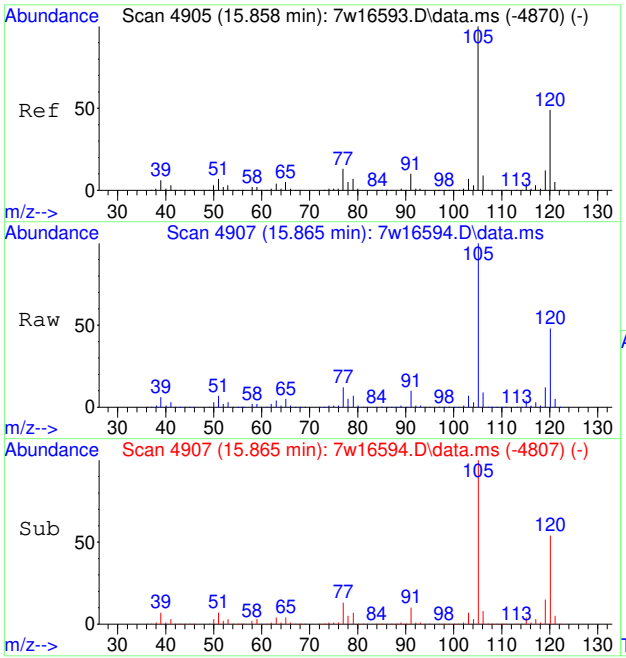


#92
4-ETHYLTOLUENE
Concen: 66.89 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 4258764

Ion	Ratio	Lower	Upper
105	100		
120	29.1	20.7	38.5
119	2.2	1.6	3.0

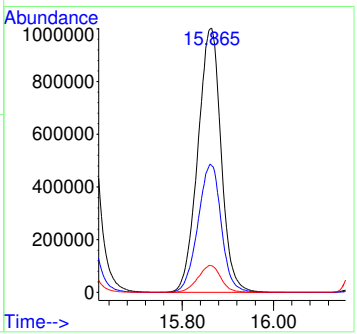


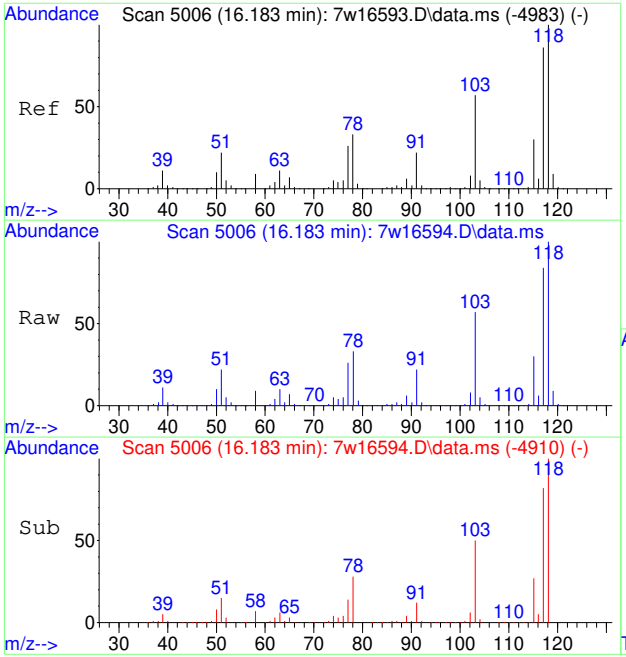


#93
1,3,5-TRIMETHYLBENZENE
Concen: 66.72 PPBV
RT: 15.865 min Scan# 4907
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3539586

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

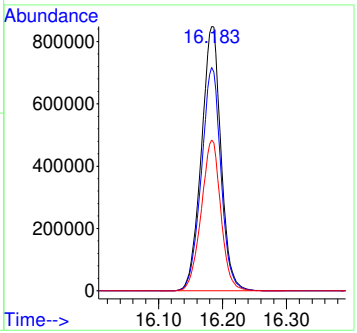


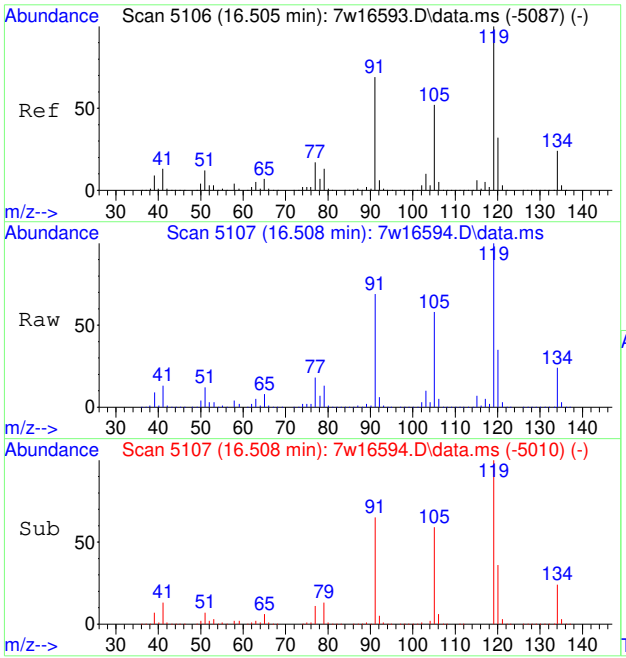


#94
ALPHA-METHYLSTYRENE
Concen: 68.96 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:118 Resp: 1802748

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.9	40.3	74.9

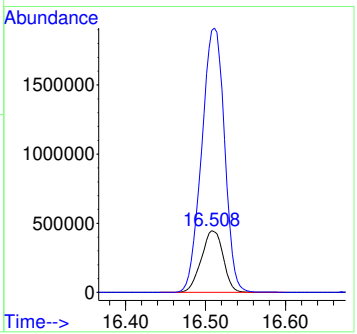


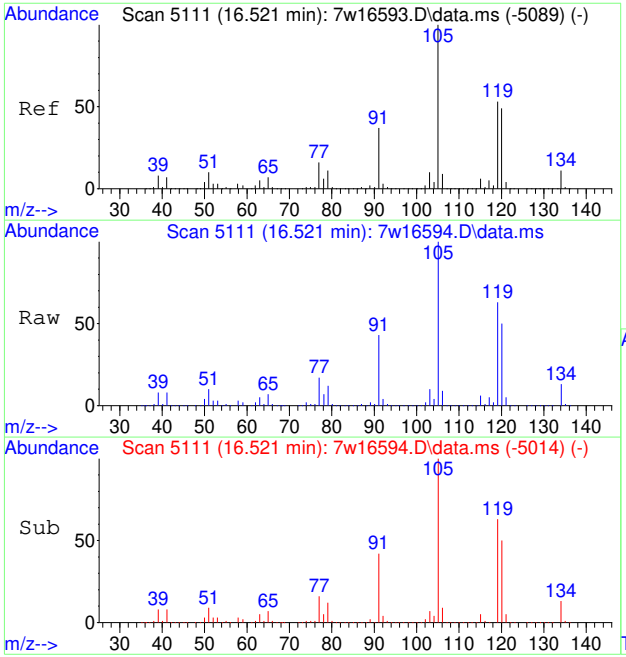


#95
TERT-BUTYLBENZENE
Concen: 65.41 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 849405

Ion	Ratio	Lower	Upper
134	100		
119	445.9	311.3	578.1

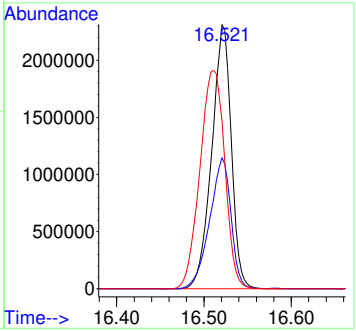


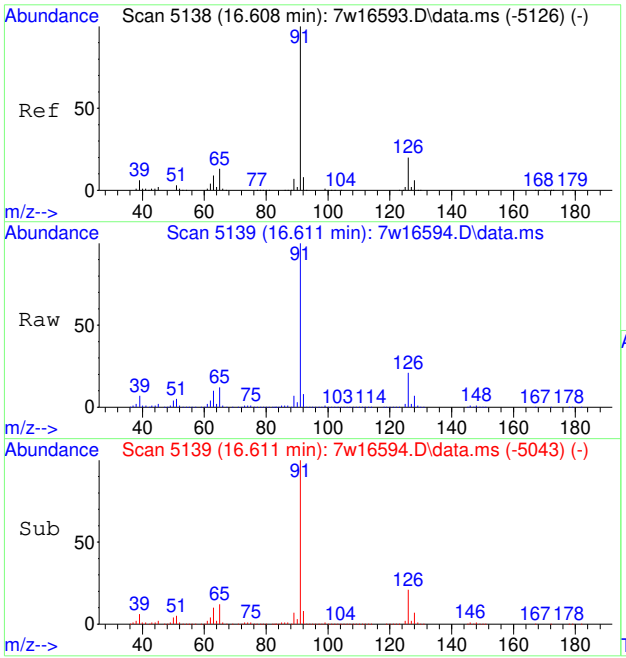


#96
1,2,4-TRIMETHYLBENZENE
Concen: 68.48 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3598939

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

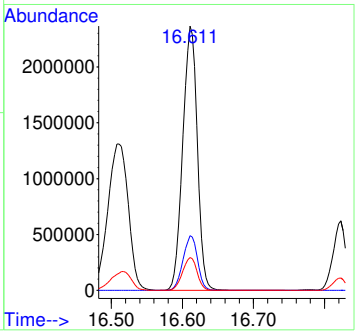


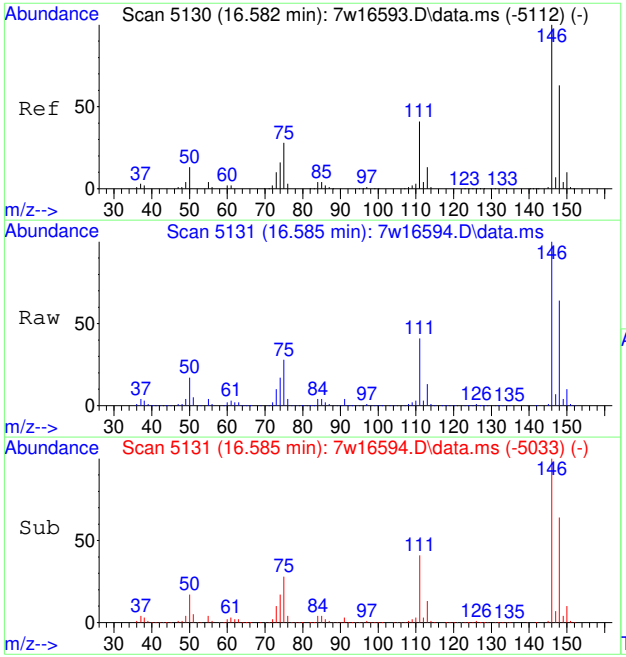


#97
BENZYL CHLORIDE
Concen: 81.19 PPBV
RT: 16.611 min Scan# 5139
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3366305

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.5	9.2	17.0

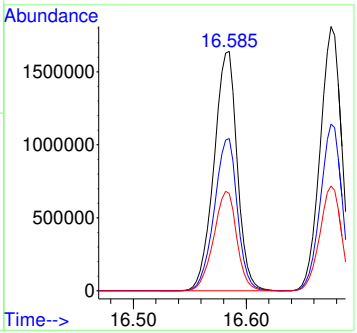


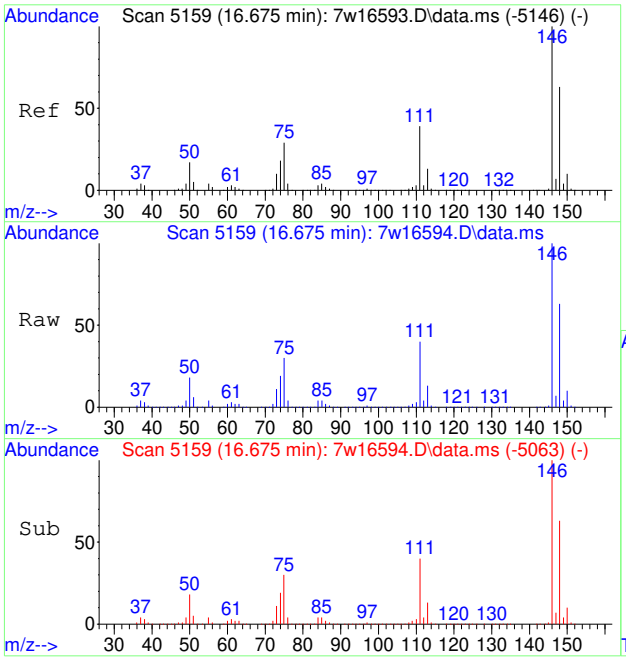


#98
M-DICHLOROBENZENE
Concen: 64.53 PPBV
RT: 16.585 min Scan# 5131
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2335430

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.6	82.8
111	41.4	29.3	54.3

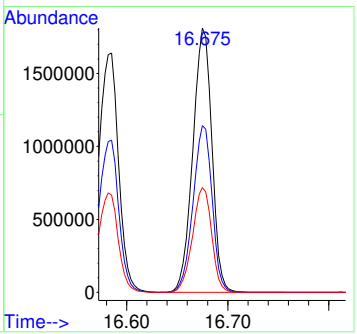


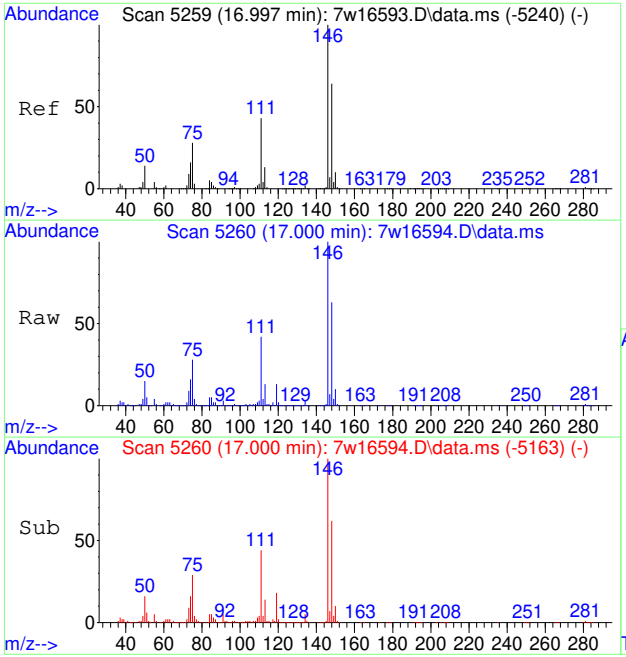


#99
P-DICHLOROBENZENE
Concen: 66.58 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2373563

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	39.9	28.0	52.0

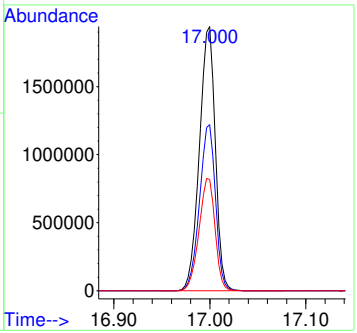


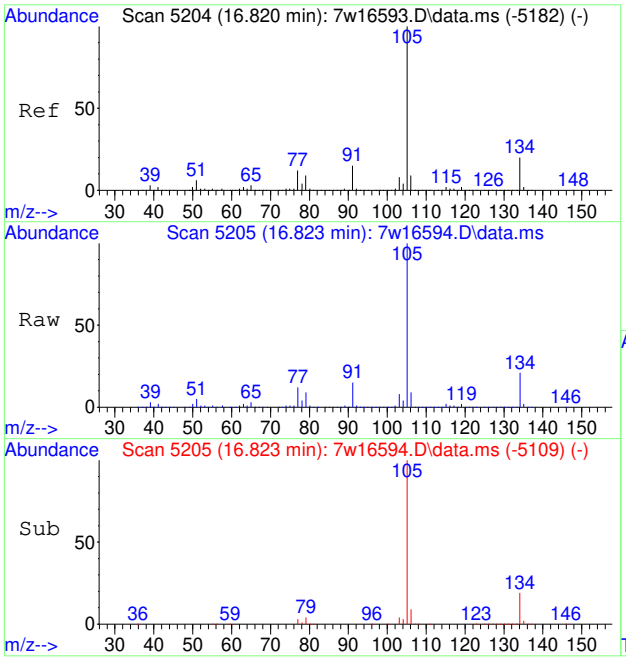


#100
O-DICHLOROBENZENE
Concen: 66.71 PPBV
RT: 17.000 min Scan# 5260
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2236033

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

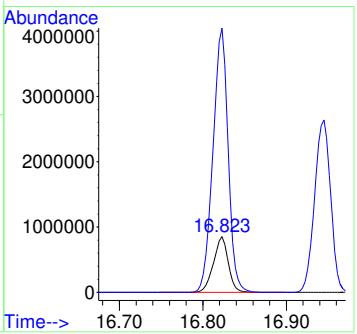


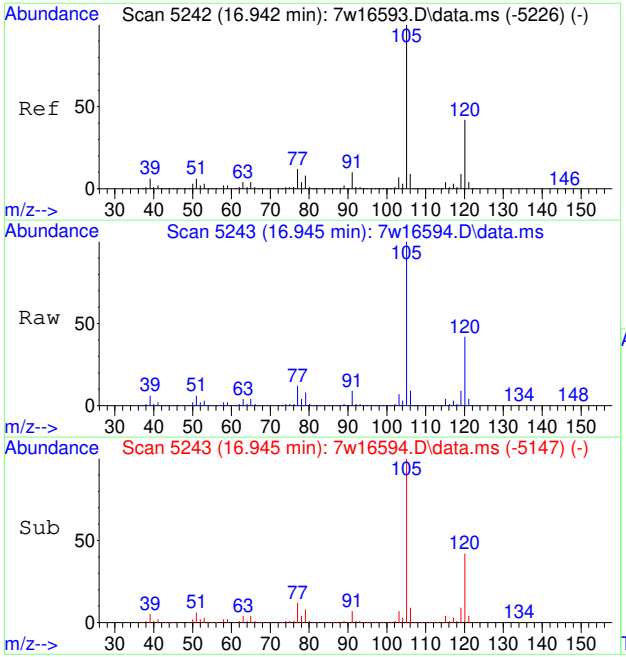


#101
SEC-BUTYLBENZENE
Concen: 67.84 PPBV
RT: 16.823 min Scan# 5205
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1046061

Ion	Ratio	Lower	Upper
134	100		
105	488.3	344.8	640.3

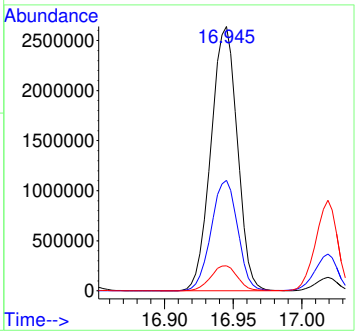


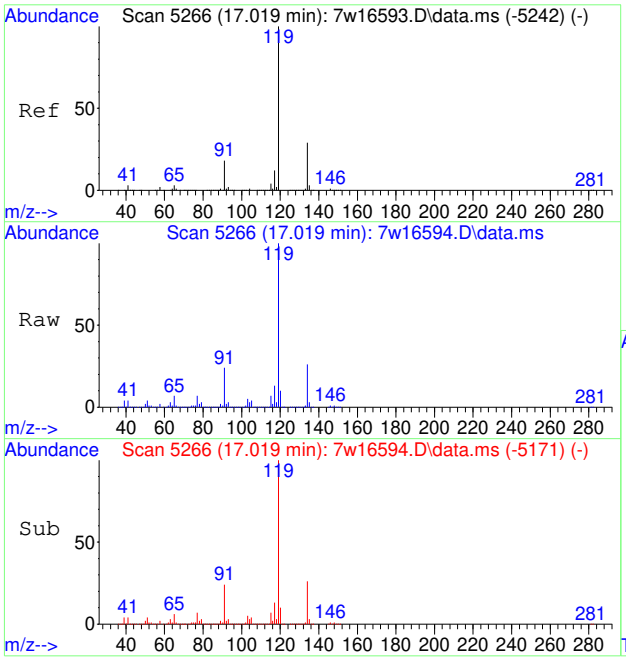


#102
1,2,3-TRIMETHYLBENZENE
Concen: 66.96 PPBV
RT: 16.945 min Scan# 5243
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3529094

Ion	Ratio	Lower	Upper
105	100		
120	42.1	29.3	54.3
91	9.7	7.0	13.0

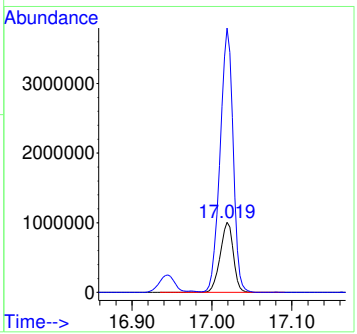


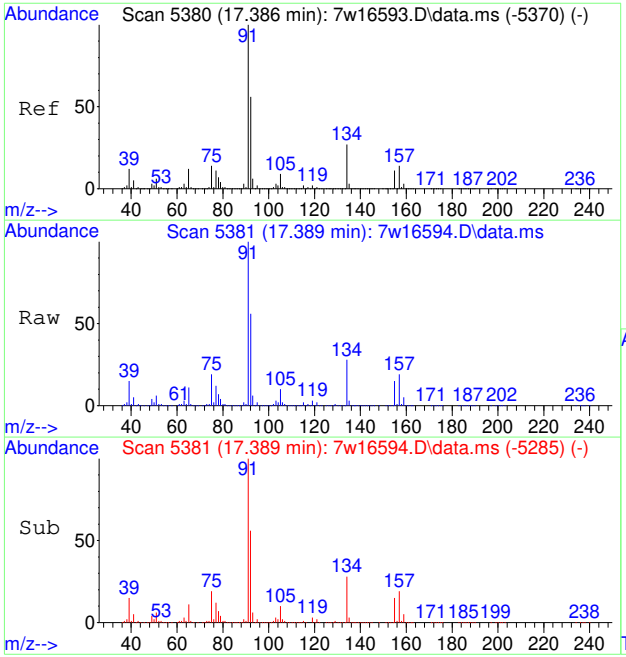


#103
P-ISOPROPYLTOLUENE
Concen: 66.86 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1145439

Ion	Ratio	Lower	Upper
134	100		
119	373.3	261.4	485.4

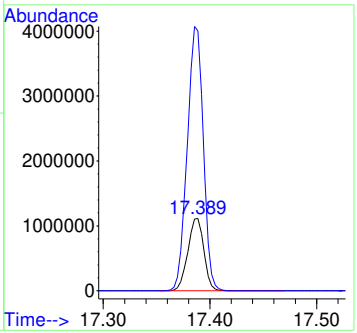


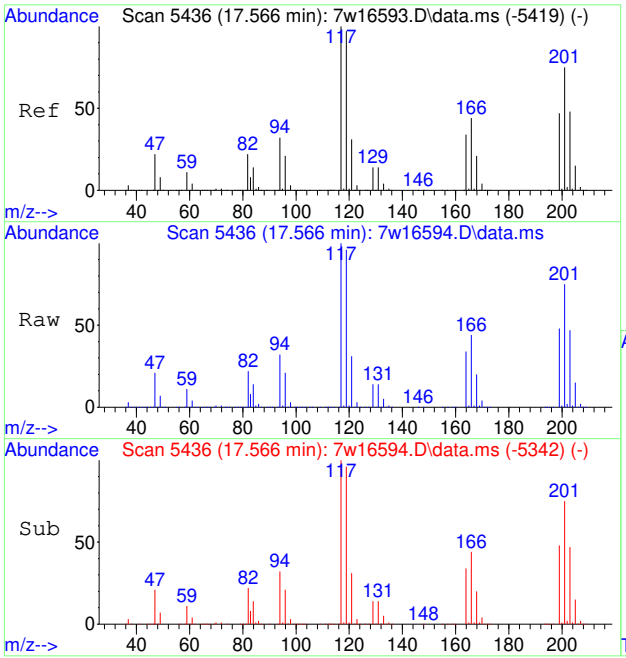


#104
N-BUTYLBENZENE
Concen: 71.38 PPBV
RT: 17.389 min Scan# 5381
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1159070

Ion	Ratio	Lower	Upper
134	100		
91	367.1	261.0	484.8

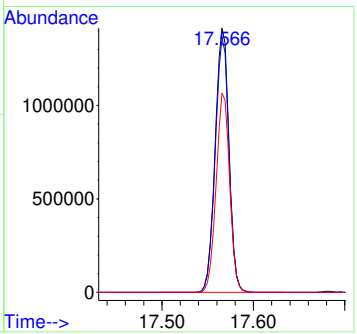


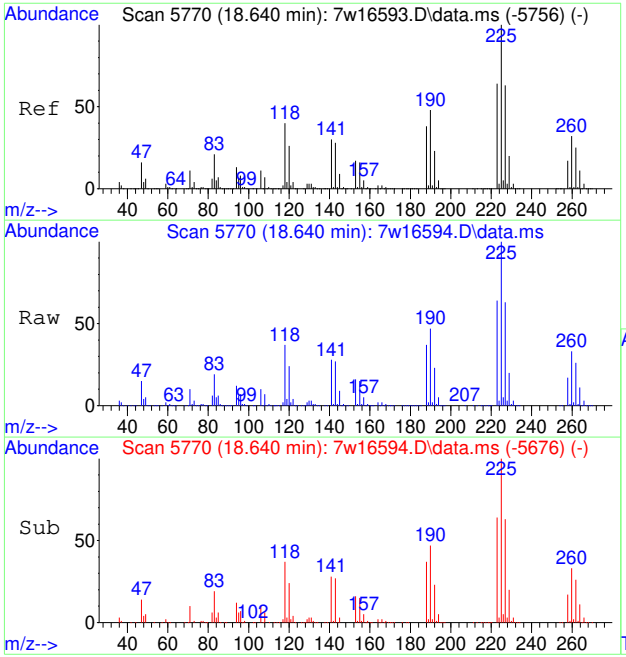


#105
HEXACHLOROETHANE
Concen: 74.98 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1491790

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	74.0	49.8	92.6

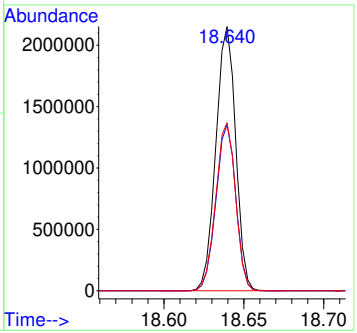


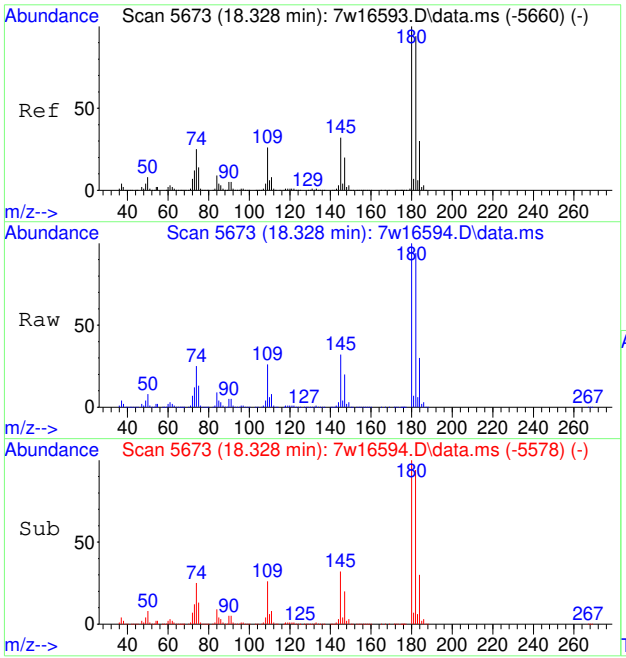


#106
HEXACHLOROBUTADIENE
Concen: 78.27 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:225 Resp: 1851997

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.6	82.8
223	63.8	44.6	82.8

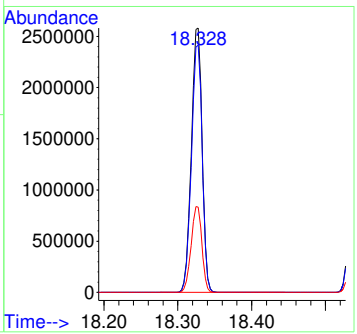


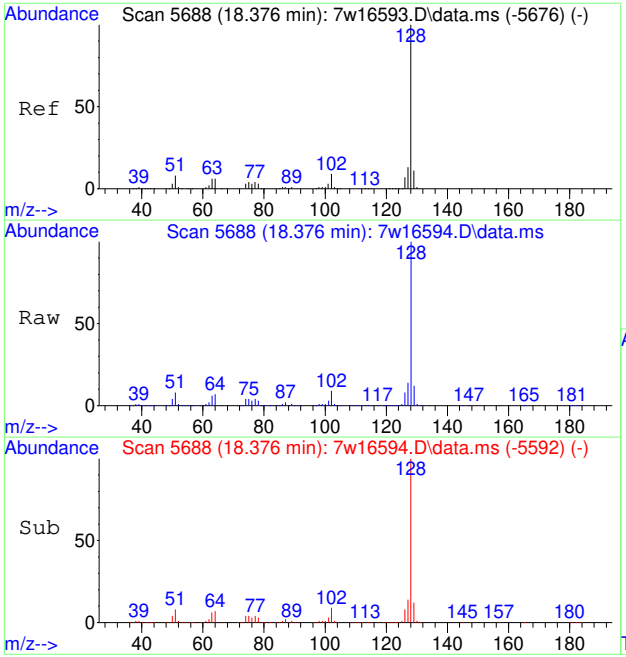


#107
1,2,4-TRICHLOROBENZENE
Concen: 93.58 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:180 Resp: 2599589

Ion	Ratio	Lower	Upper
180	100		
182	94.0	66.6	123.6
145	32.6	22.5	41.9

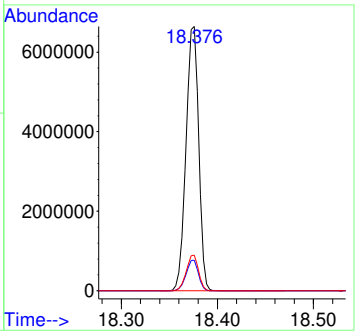


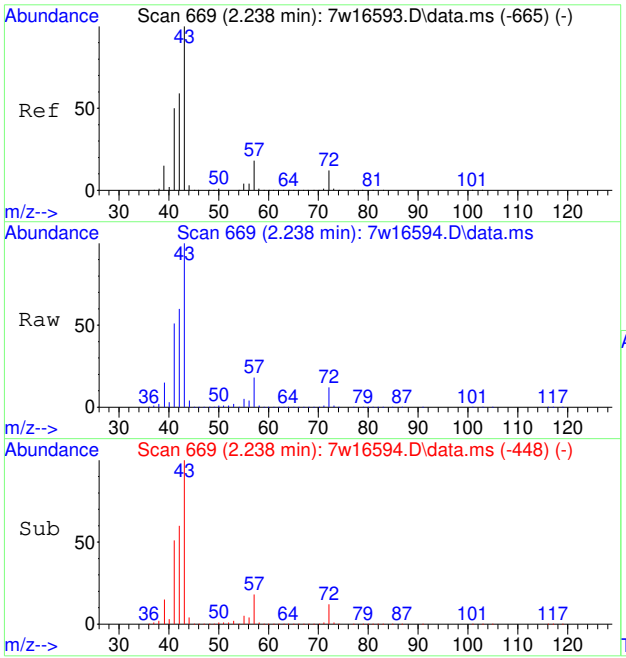


#108
NAPHTHALENE
Concen: 98.65 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:128 Resp: 6111699

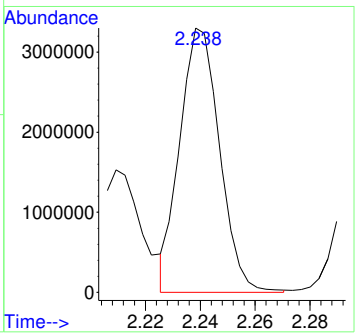
Ion	Ratio	Lower	Upper
128	100		
129	11.3	7.5	13.9
127	13.1	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 53.84 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:TIC Resp: 3312203



Manual Integration Approval Summary

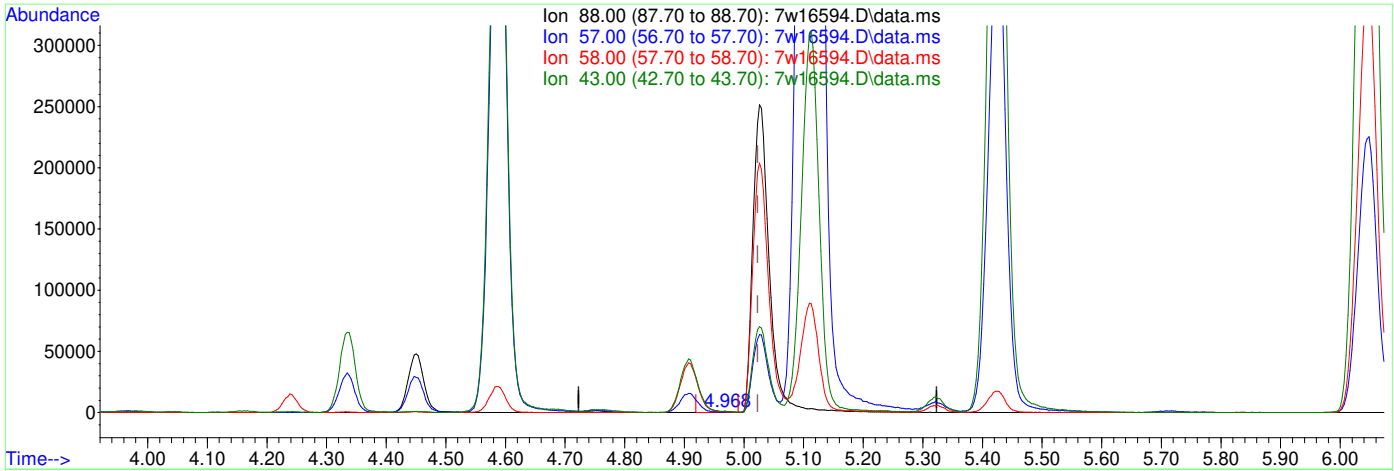
Sample Number: V7W577-IC577
Lab FileID: 7W16594.D
Injection Time: 08/07/25 16:02
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

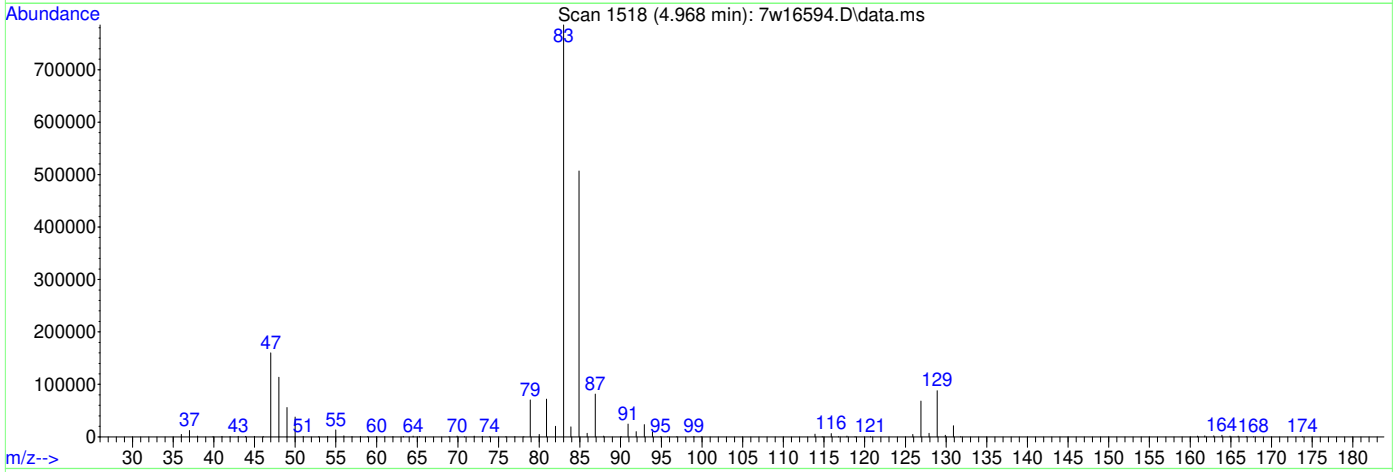
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.03	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

4.968min (-0.055) 0.23PPBV

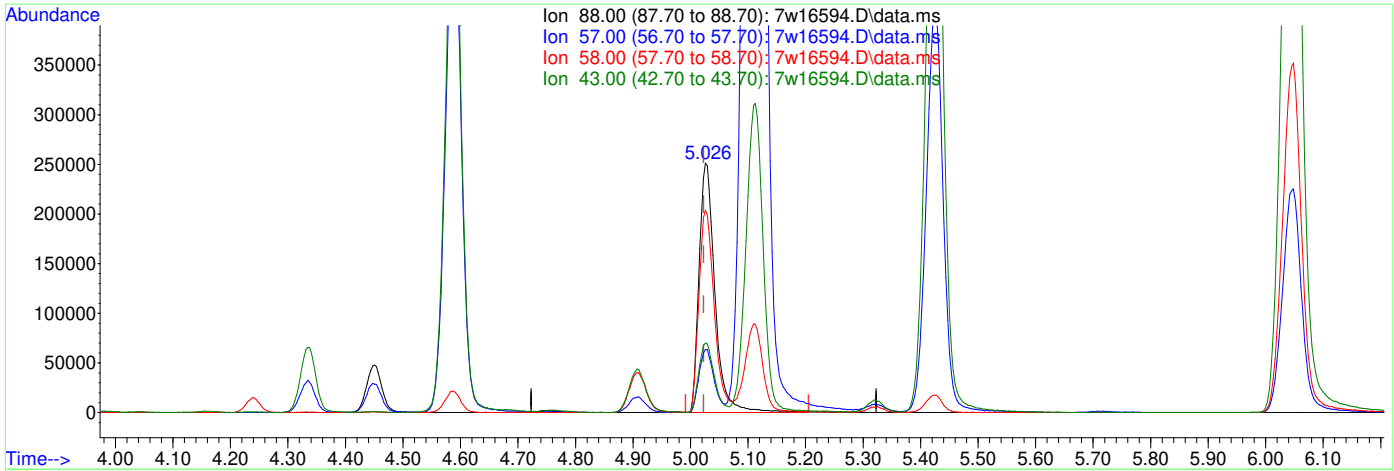
response 1814

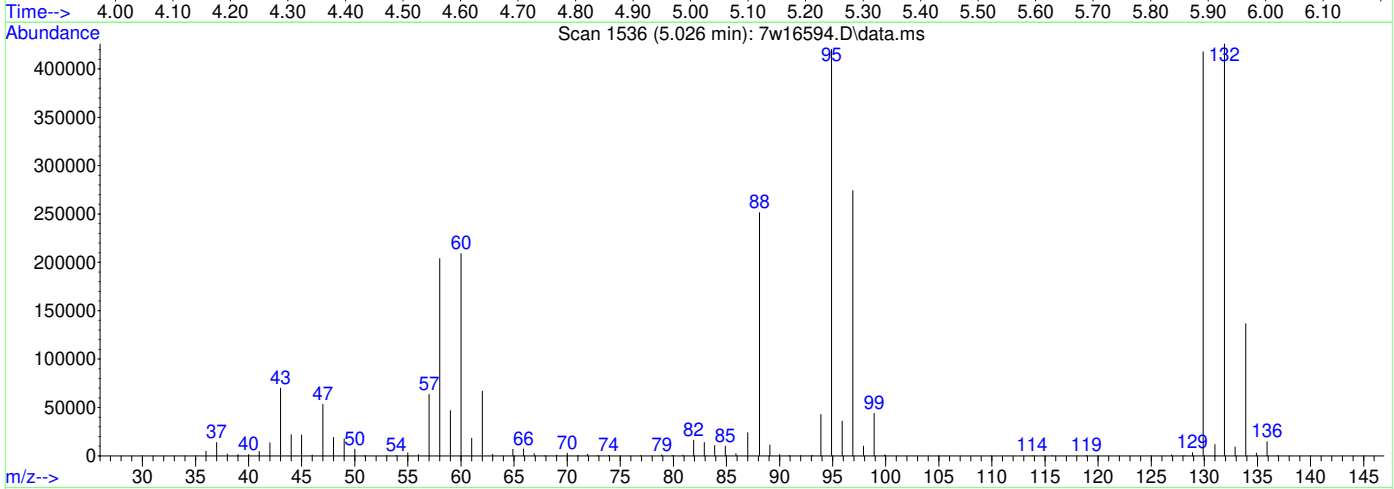
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

5.026min (+0.003) 61.98PPBV m

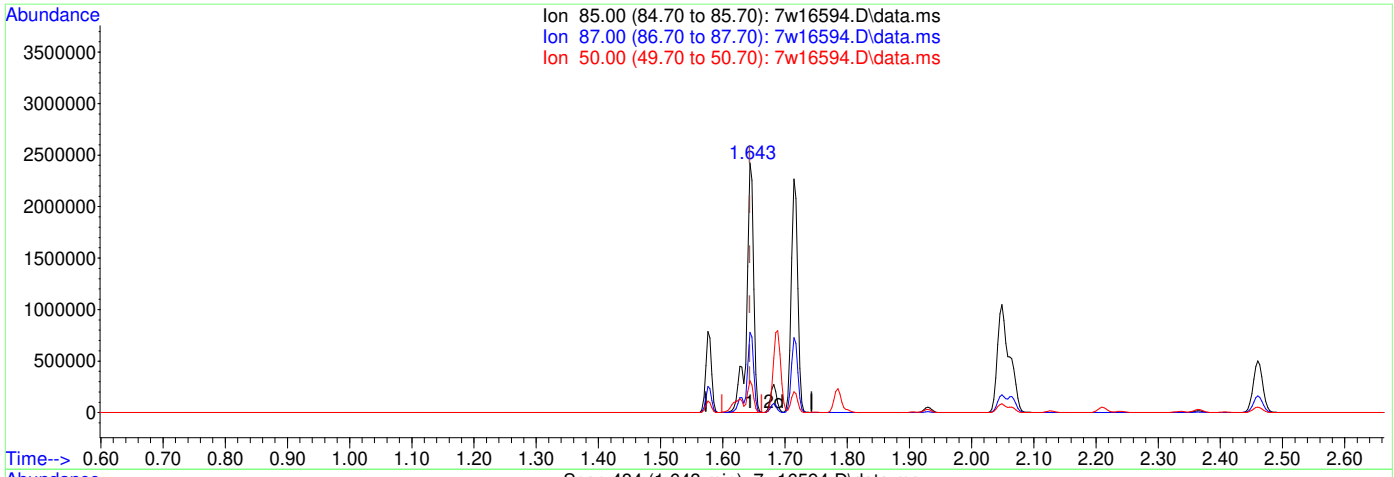
response 483214

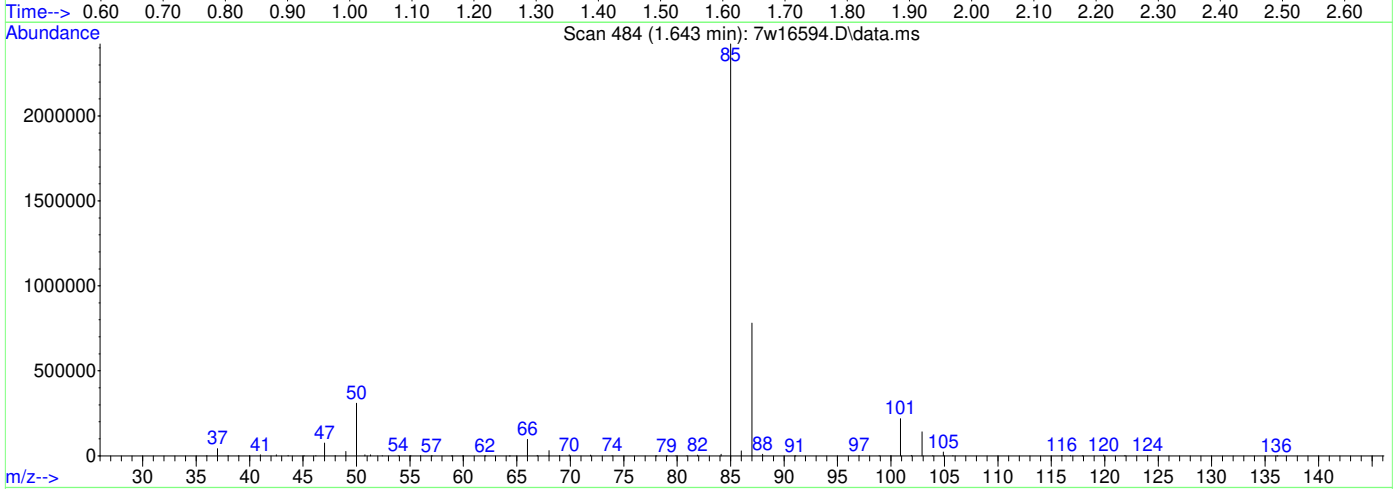
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 62.42PPBV

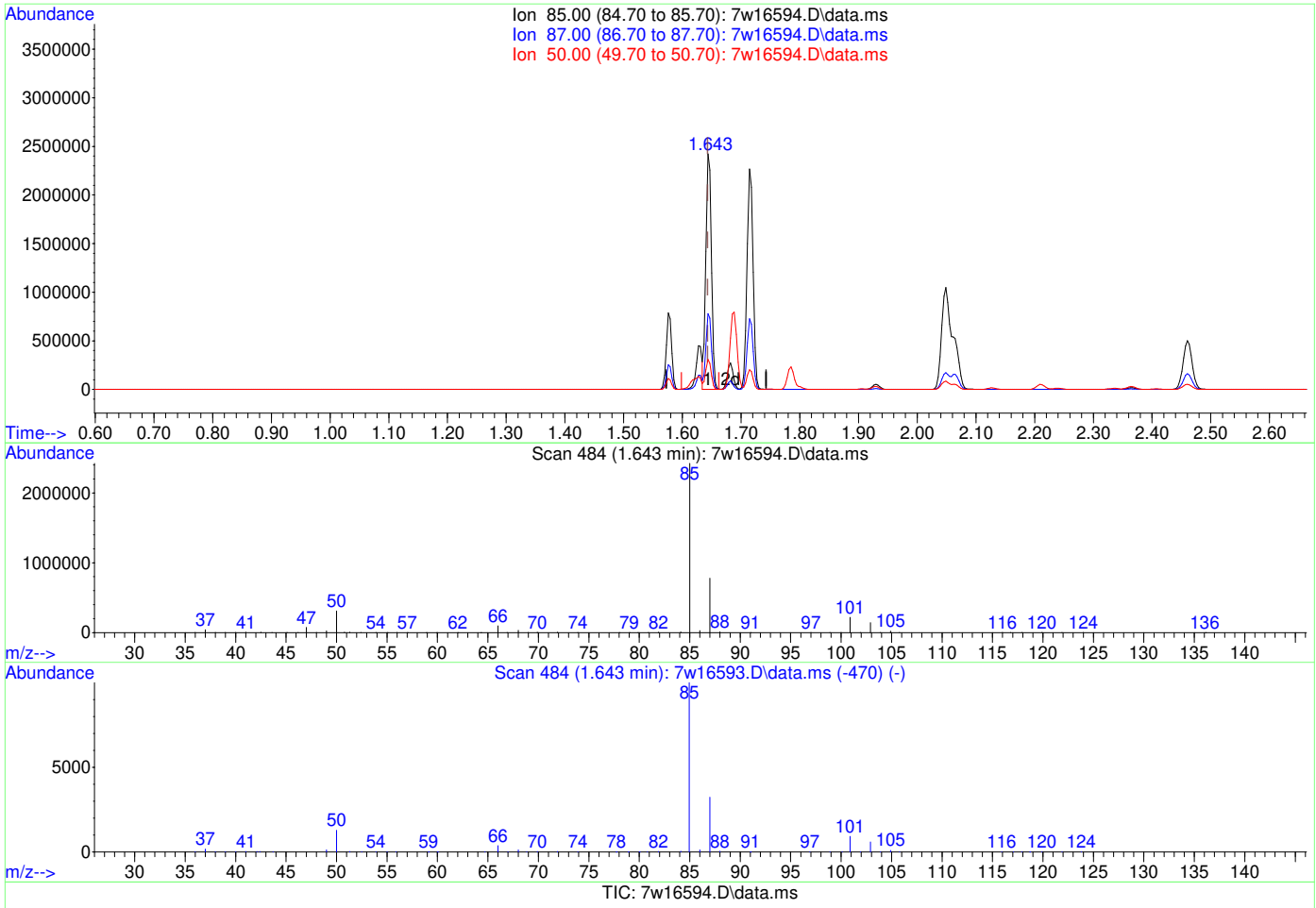
response 1902131

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.33
50.00	19.30	18.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration



TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 52.05PPBV m

response 1586079

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	22.28
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	108383	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	546930	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	500783	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	108383	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	408741	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	140448	10.68	PPBV		100
3) FREON 152A	1.608	65	69502	10.25	PPBV		99
4) CHLORODIFLUOROMETHANE	1.618	67	32765	11.13	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	152723	10.78	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	300519m	11.58	PPBV		
7) PROPYLENE	1.628	41	90576	10.32	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	252062	10.91	PPBV		100
9) FREON 114	1.718	85	303615	11.35	PPBV		100
10) CHLOROMETHANE	1.689	52	40254	10.81	PPBV		98
11) VINYL CHLORIDE	1.750	62	140045	10.62	PPBV		99
12) 1,3-BUTADIENE	1.785	54	109649	10.53	PPBV		99
13) N-BUTANE	1.801	43	194903	11.06	PPBV		100
14) BROMOMETHANE	1.859	94	110308	10.79	PPBV		99
15) CHLOROETHANE	1.907	64	72483	10.13	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	268652	10.84	PPBV		99
17) ACETONITRILE	1.997	41	115239	9.36	PPBV		99
18) ACROLEIN	2.036	56	62655	10.71	PPBV		98
19) FREON 123	2.049	83	270679	10.84	PPBV		99
20) FREON 123A	2.065	117	148778	10.06	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.129	101	311135	11.04	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	290247	12.15	PPBV		99
23) ACETONE	2.071	58	70408	10.78	PPBV		100
24) PENTANE	2.242	42	134988	10.43	PPBV		100
25) IODOMETHANE	2.303	142	287484	11.08	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	117061	10.89	PPBV		99
27) CARBON DISULFIDE	2.464	76	316603	10.38	PPBV		98
28) ETHANOL	1.933	45	64897	10.20	PPBV		100
29) BROMOETHENE	2.004	106	107141	10.44	PPBV		99
30) ACRYLONITRILE	2.209	52	100564	10.95	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	108156	10.27	PPBV		97
32) 3-CHLOROPROPENE	2.409	76	60492	10.52	PPBV		99
33) FREON 113	2.460	151	185131	11.44	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	2.689	96	122177	10.33	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.338	59	321878	10.78	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	372091	11.06	PPBV		100
37) TETRAHYDROFURAN	3.467	72	61873	11.34	PPBV		99
38) HEXANE	3.242	57	241359	10.65	PPBV		100
39) VINYL ACETATE	2.827	86	34923	10.80	PPBV		97
40) 1,1-DICHLOROETHANE	2.759	63	247364	10.82	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	65125	10.54	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	133909	10.92	PPBV		100
43) DIISOPROPYL ETHER	3.245	59	71425	11.12	PPBV		96
44) ETHYL ACETATE	3.248	61	46105	10.62	PPBV		90
45) METHYL ACRYLATE	3.235	55	298658	10.90	PPBV	#	100
46) CHLOROFORM	3.261	83	268569	11.35	PPBV		100
47) 2,4-DIMETHYLPENTANE	3.743	57	287870	11.35	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279200	11.20	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	286618	11.10	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	205457	11.17	PPBV	100
51)	BENZENE	4.126	78	392045	10.80	PPBV	100
53)	CYCLOHEXANE	4.335	84	178042	11.13	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.586	71	92136	11.55	PPBV	99
55)	TRICHLOROETHENE	5.013	95	177553	10.41	PPBV	100
56)	1,2-DICHLOROPROPANE	4.782	63	163448	10.84	PPBV	100
57)	DIBROMOMETHANE	4.743	174	150387	10.35	PPBV	99
58)	ETHYL ACRYLATE	4.901	55	376913	11.17	PPBV	99
59)	BROMODICHLOROMETHANE	4.962	83	300258	10.90	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	770282	10.43	PPBV	100
61)	1,4-DIOXANE	5.023	88	94601	11.72	PPBV	98
62)	HEPTANE	5.422	43	261506	10.72	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	152007	11.09	PPBV	99
64)	METHYL ISOBUTYL KETONE	6.039	58	154590	10.57	PPBV	100
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	233811	10.11	PPBV	100
66)	TOLUENE	7.132	91	488543	11.25	PPBV	99
67)	1,3-DICHLOROPROPANE	7.190	76	246988	11.34	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	217661	10.42	PPBV	100
69)	1,1,2-TRICHLOROETHANE	6.766	83	141620	11.44	PPBV	99
70)	2-HEXANONE	7.695	58	209349	10.26	PPBV	99
71)	ETHYL METHACRYLATE	7.830	69	256728	11.23	PPBV	99
72)	TETRACHLOROETHENE	8.846	164	180607	11.40	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.656	129	297263	11.82	PPBV	99
74)	1,2-DIBROMOETHANE	8.000	107	263017	11.75	PPBV	100
75)	OCTANE	8.994	43	371823	11.38	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	217186	12.09	PPBV	100
78)	CHLOROBENZENE	10.042	112	397219	11.61	PPBV	100
79)	ETHYLBENZENE	10.923	91	659125	11.76	PPBV	100
80)	M,P-XYLENE	11.347	91	1021629	22.50	PPBV	99
81)	O-XYLENE	12.280	91	524115	11.89	PPBV	100
82)	STYRENE	12.068	104	383070	11.59	PPBV	100
83)	NONANE	13.402	43	389550	11.35	PPBV	100
84)	BROMOFORM	11.158	173	265221	12.55	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	376337	11.92	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	296228	11.97	PPBV	100
88)	ISOPROPYLBENZENE	13.788	120	196063	11.70	PPBV	100
89)	BROMOBENZENE	13.653	77	368714	11.46	PPBV	99
90)	2-CHLOROTOLUENE	14.785	126	175998	11.26	PPBV	100
91)	N-PROPYLBENZENE	15.122	120	204116	11.48	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	742534	11.28	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	622476	11.36	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.174	118	271625	10.00	PPBV	99
95)	TERT-BUTYLBENZENE	16.498	134	152633	11.43	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	633879	11.67	PPBV	99
97)	BENZYL CHLORIDE	16.598	91	464197	10.58	PPBV	99
98)	M-DICHLOROBENZENE	16.569	146	406824	10.91	PPBV	100
99)	P-DICHLOROBENZENE	16.666	146	408776	11.12	PPBV	100
100)	O-DICHLOROBENZENE	16.987	146	388114	11.22	PPBV	100
101)	SEC-BUTYLBENZENE	16.813	134	187876	11.81	PPBV	100
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	621174	11.41	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.013	134	206409	11.68	PPBV	100
104)	N-BUTYLBENZENE	17.379	134	197029	11.69	PPBV	100
105)	HEXACHLOROETHANE	17.559	117	224249	10.80	PPBV	100
106)	HEXACHLOROBUTADIENE	18.633	225	277087	11.26	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.315	180	362853	12.29	PPBV	100
108)	NAPHTHALENE	18.363	128	837609	12.65	PPBV	99
110)	TVHC as equiv Pentane	2.242	TIC	634578	10.37	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

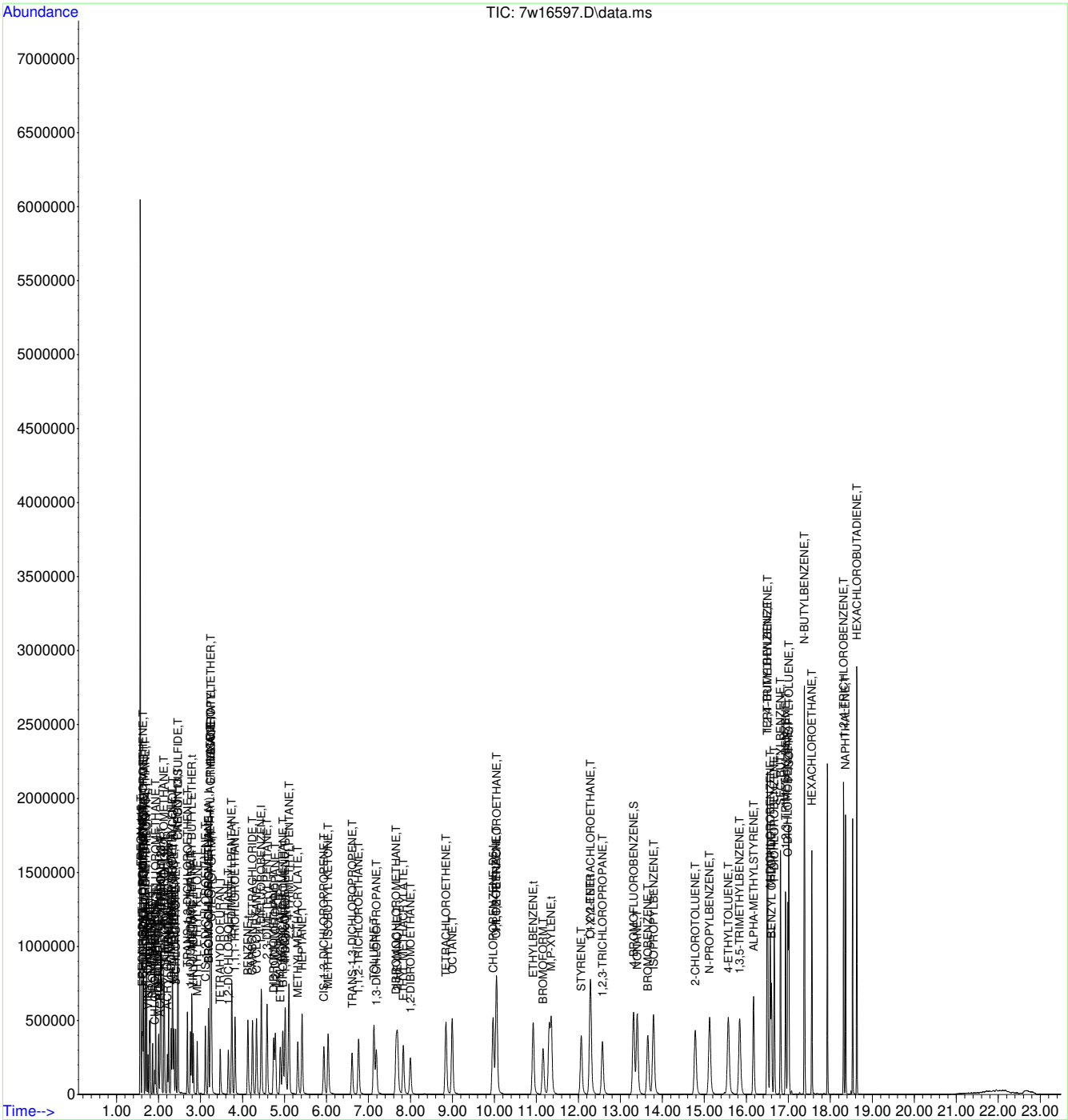
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

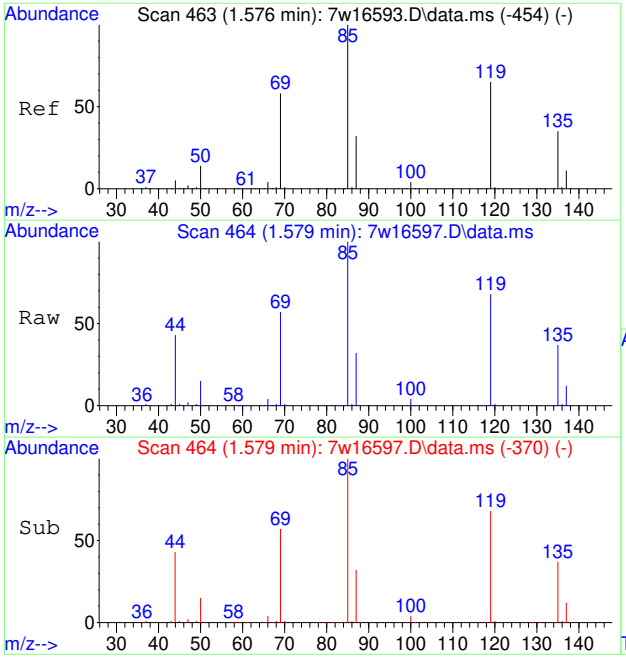
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

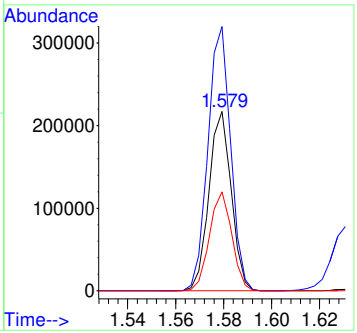


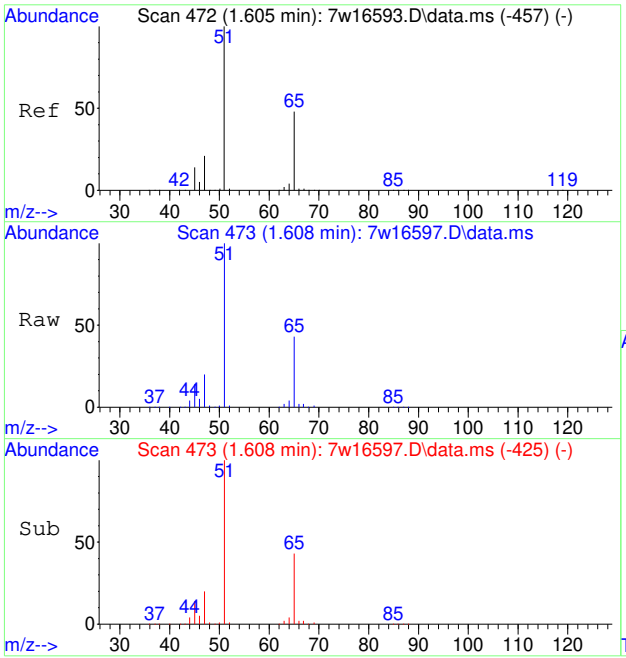


#2
FREON 115
Concen: 10.68 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:119 Resp: 140448

Ion	Ratio	Lower	Upper
119	100		
85	149.3	104.4	193.8
135	55.3	38.6	71.8

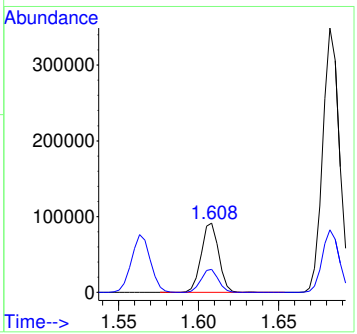


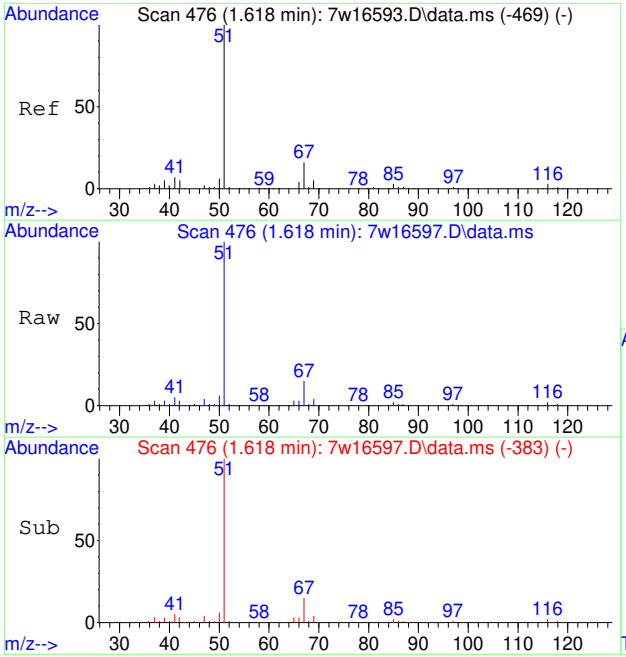


#3
FREON 152A
Concen: 10.25 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 69502

Ion	Ratio	Lower	Upper
65	100		
45	32.5	23.0	42.8

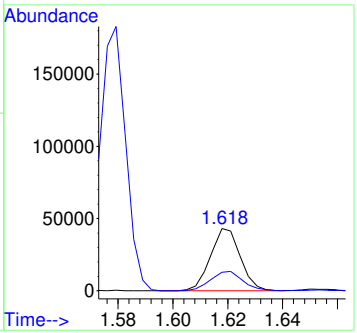


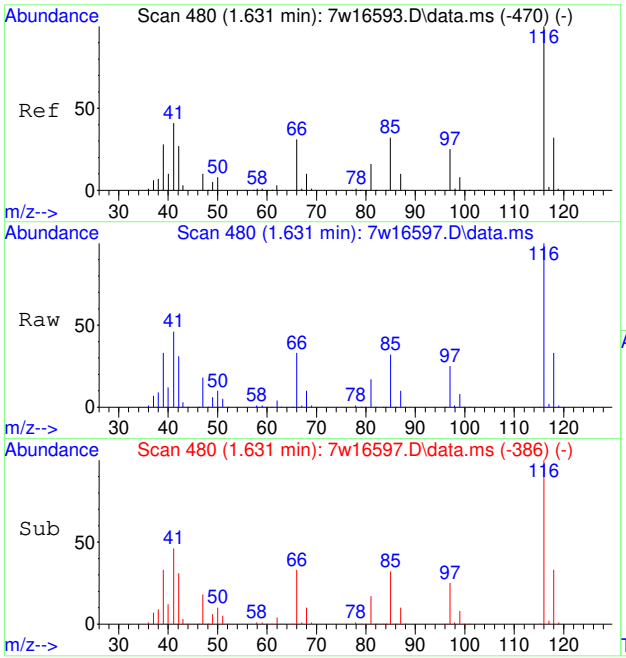


#4
CHLORODIFLUOROMETHANE
Concen: 11.13 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 32765

Ion	Ratio	Lower	Upper
67	100		
69	33.8	25.3	47.1

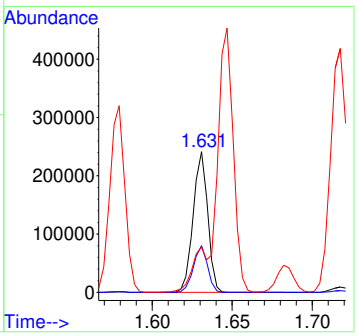


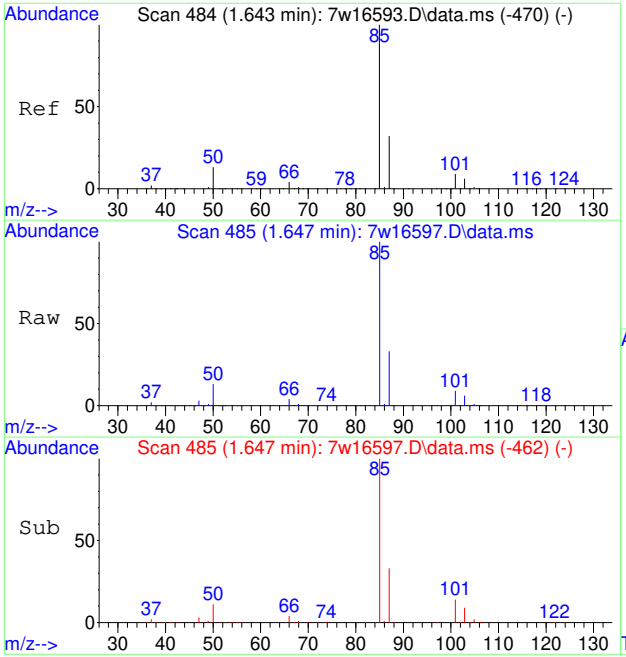


#5
CHLOROTRIFLUOROETHENE
Concen: 10.78 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:116 Resp: 152723

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	229.5	152.4	283.0

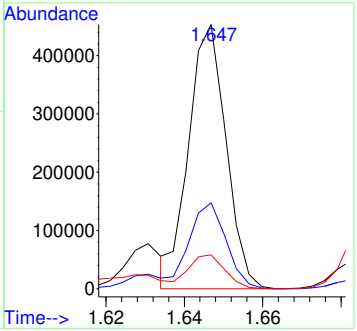


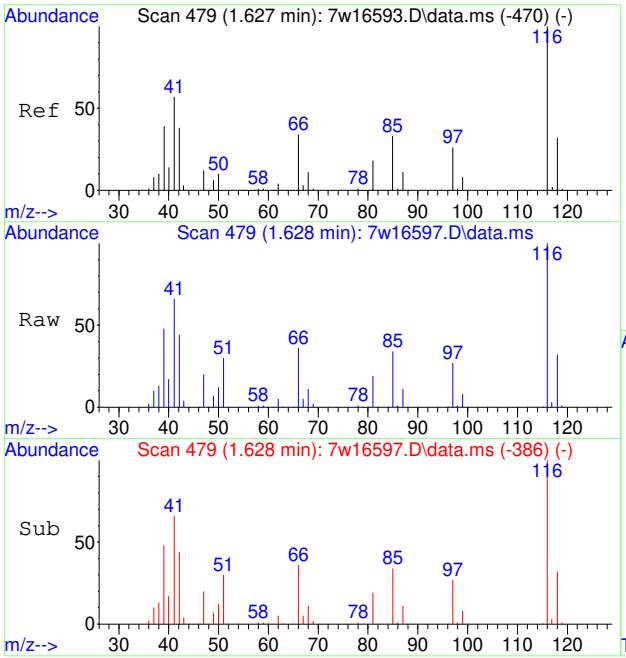


#6
DICHLORODIFLUOROMETHANE
Concen: 11.58 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 300519

Ion	Ratio	Lower	Upper
85	100		
87	37.8	23.0	42.6
50	21.9	13.5	25.1

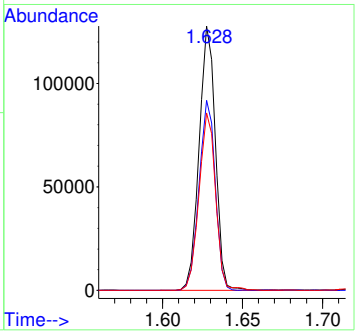


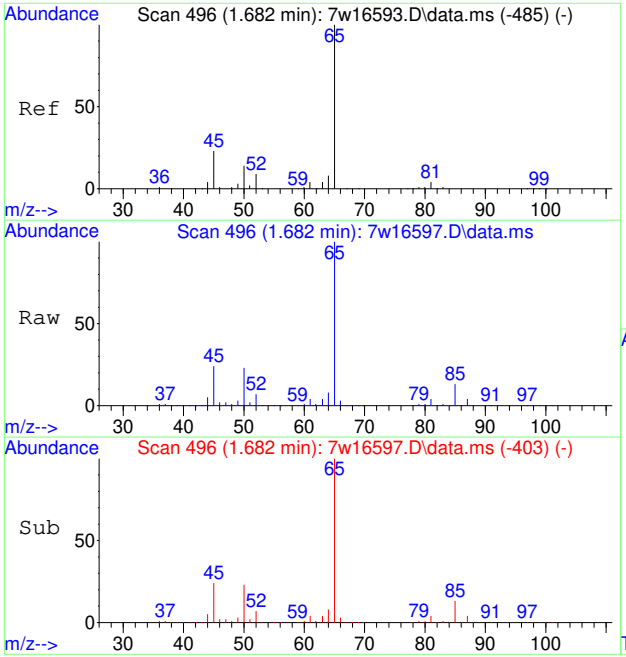


#7
PROPYLENE
Concen: 10.32 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 90576

Ion	Ratio	Lower	Upper
41	100		
39	71.5	50.5	93.7
42	68.3	47.0	87.4

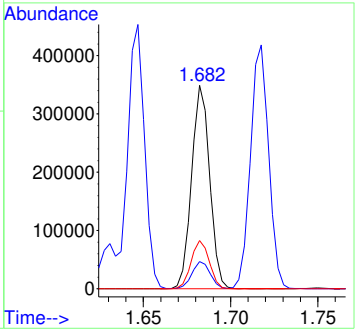


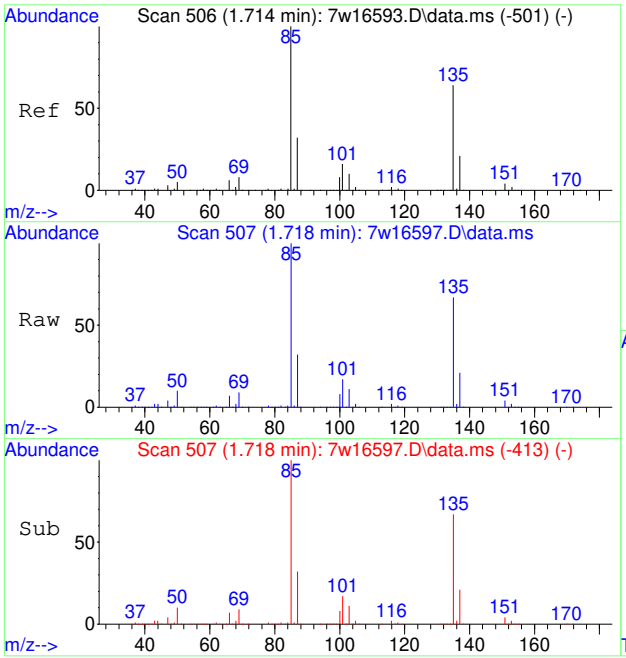


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.91 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 252062

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.4	17.4
45	23.9	16.9	31.3

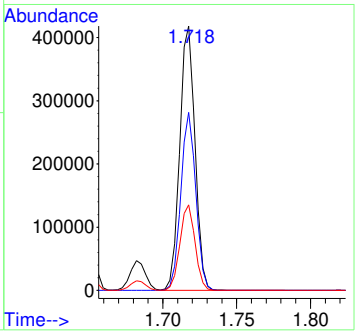


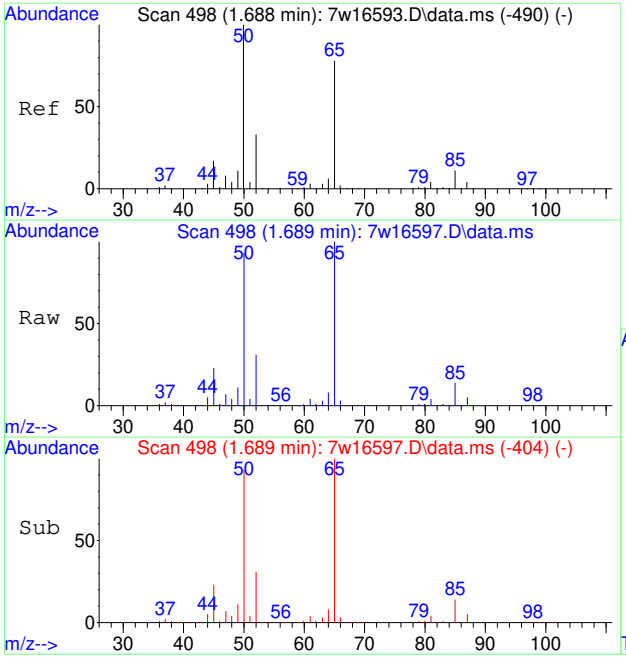


#9
FREON 114
Concen: 11.35 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 303615

Ion	Ratio	Lower	Upper
85	100		
135	66.1	46.1	85.7
87	32.2	22.6	42.0

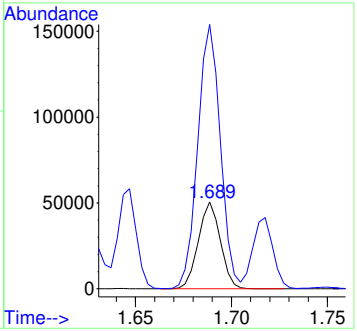


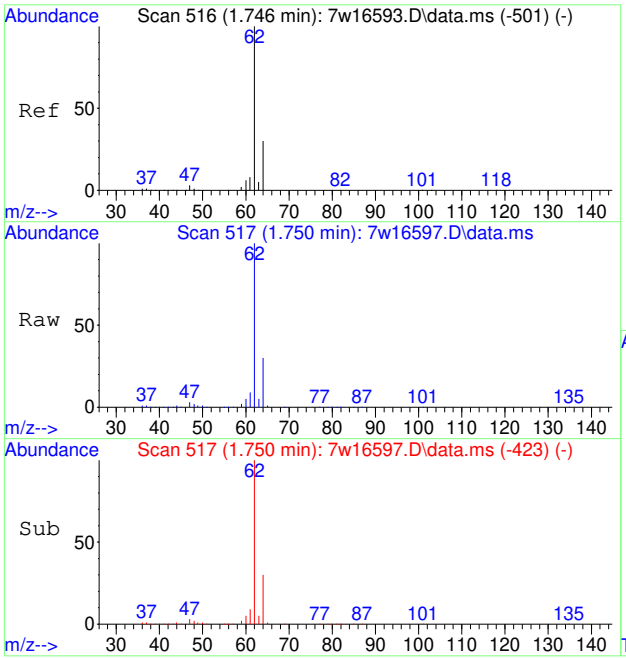


#10
CHLOROMETHANE
Concen: 10.81 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 40254

Ion	Ratio	Lower	Upper
52	100		
50	317.7	225.6	419.0

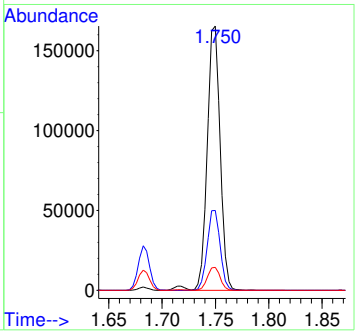


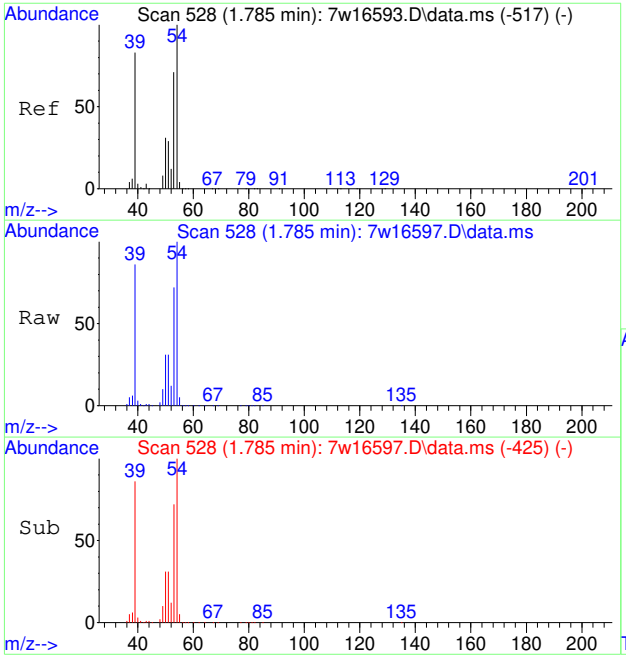


#11
VINYL CHLORIDE
Concen: 10.62 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 140045

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.8	5.7	10.5

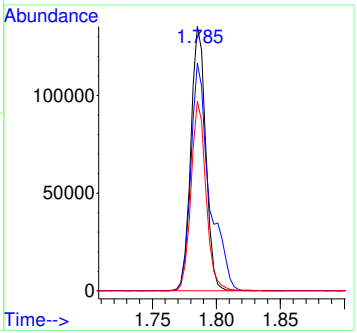


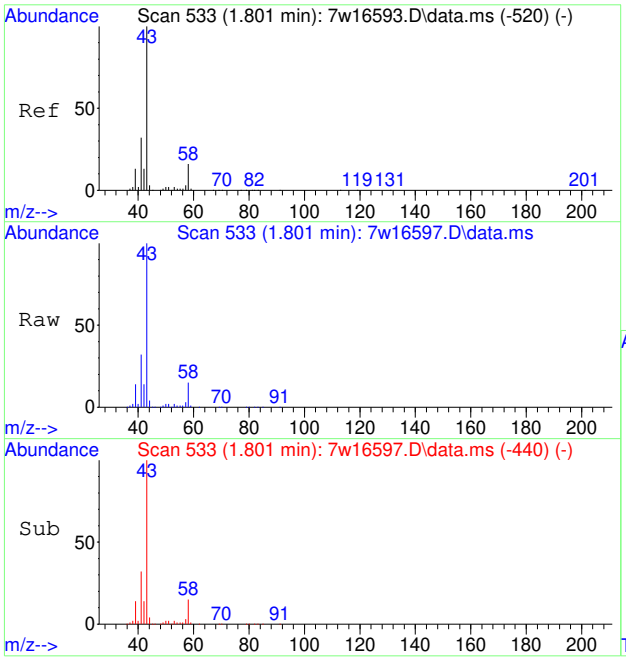


#12
1,3-BUTADIENE
Concen: 10.53 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 54 Resp: 109649

Ion	Ratio	Lower	Upper
54	100		
39	107.1	78.4	138.4
53	71.9	40.9	100.9

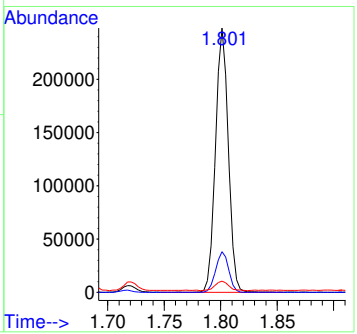


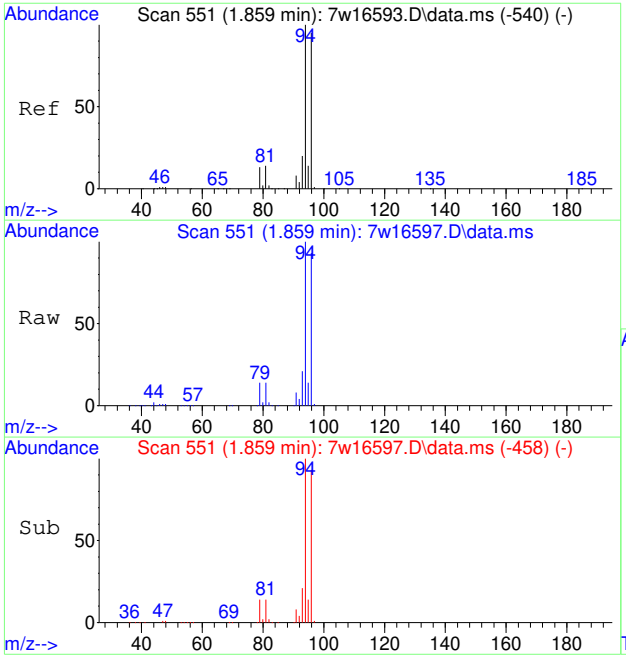


#13
N-BUTANE
Concen: 11.06 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 194903

Ion	Ratio	Lower	Upper
43	100		
58	15.6	11.0	20.4
44	3.8	2.6	4.8

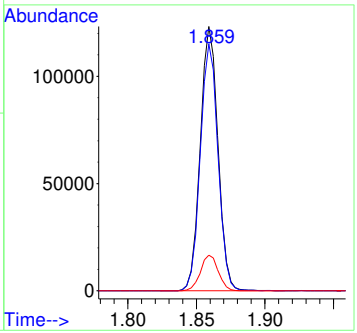


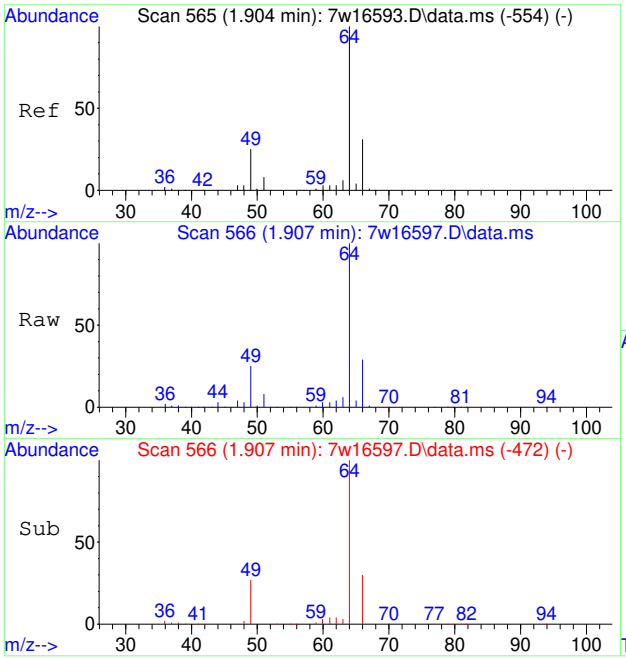


#14
BROMOMETHANE
Concen: 10.79 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 94 Resp: 110308

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.6	9.9	18.3

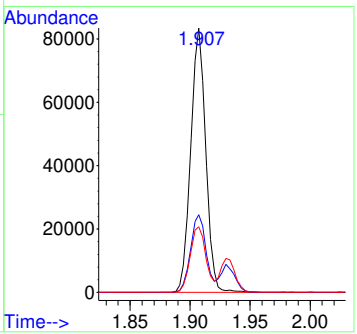


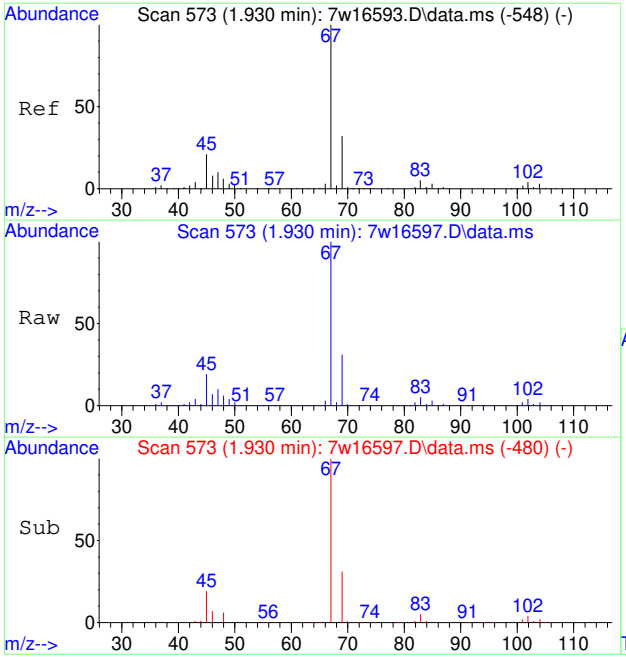


#15
CHLOROETHANE
Concen: 10.13 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 64 Resp: 72483

Ion	Ratio	Lower	Upper
64	100		
66	40.6	21.5	39.9#
49	26.3	19.0	35.4

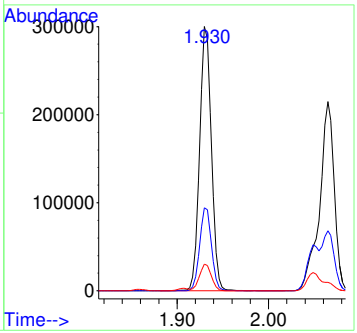


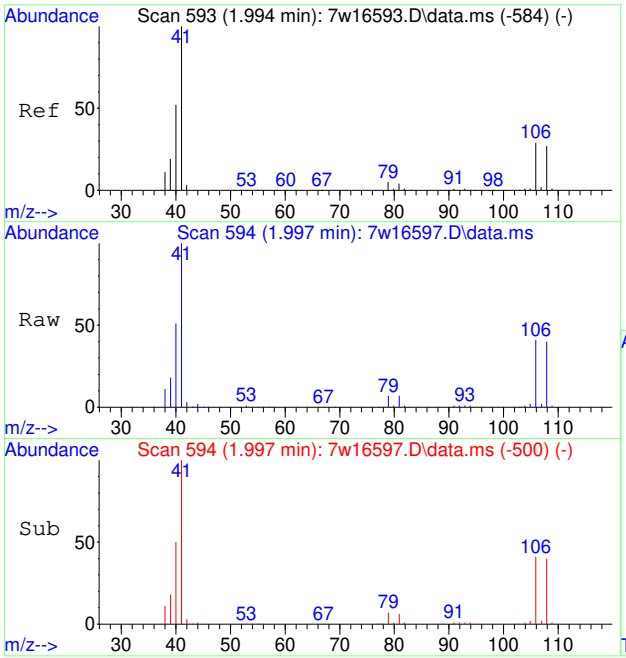


#16
DICHLOROFLUOROMETHANE
Concen: 10.84 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 268652

Ion	Ratio	Lower	Upper
67	100		
69	31.6	21.8	40.6
47	11.1	8.0	14.8

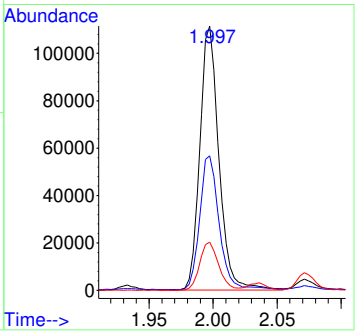


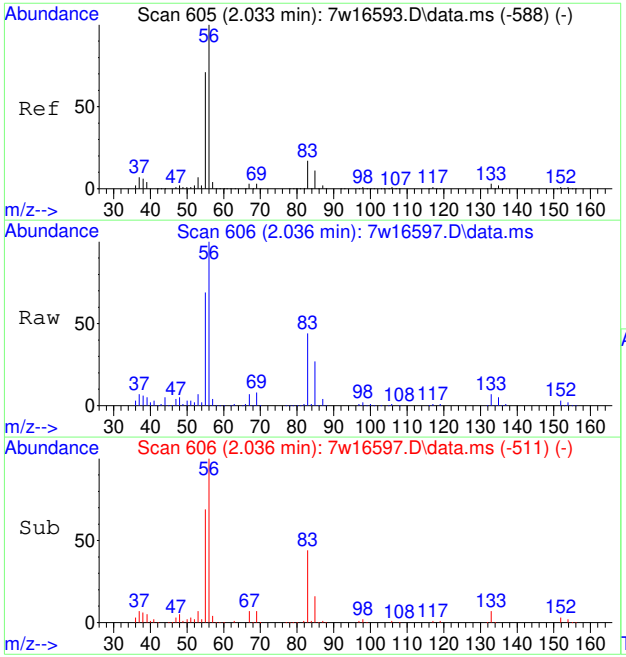


#17
ACETONITRILE
Concen: 9.36 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 115239

Ion	Ratio	Lower	Upper
41	100		
40	51.9	36.7	68.1
39	18.2	13.1	24.3

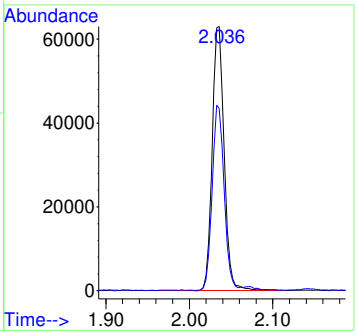


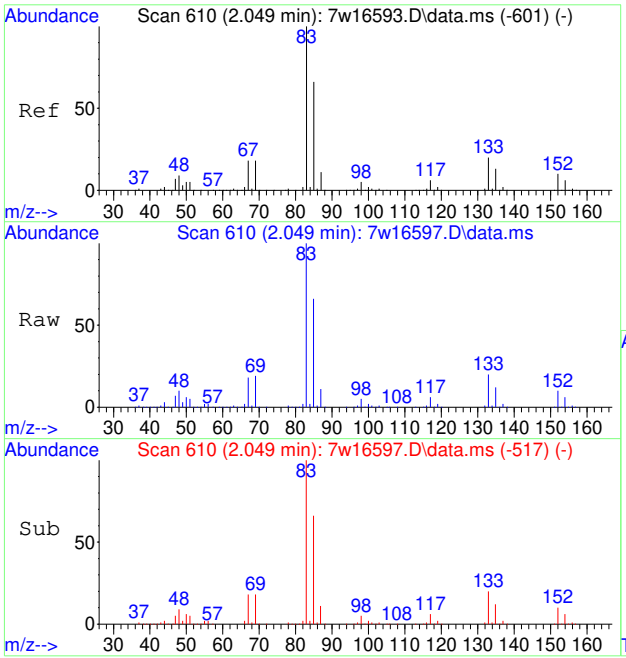


#18
ACROLEIN
Concen: 10.71 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 56 Resp: 62655

Ion	Ratio	Lower	Upper
56	100		
55	71.8	48.9	90.7

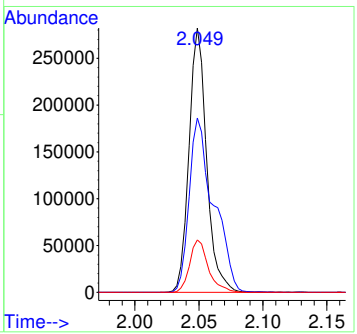


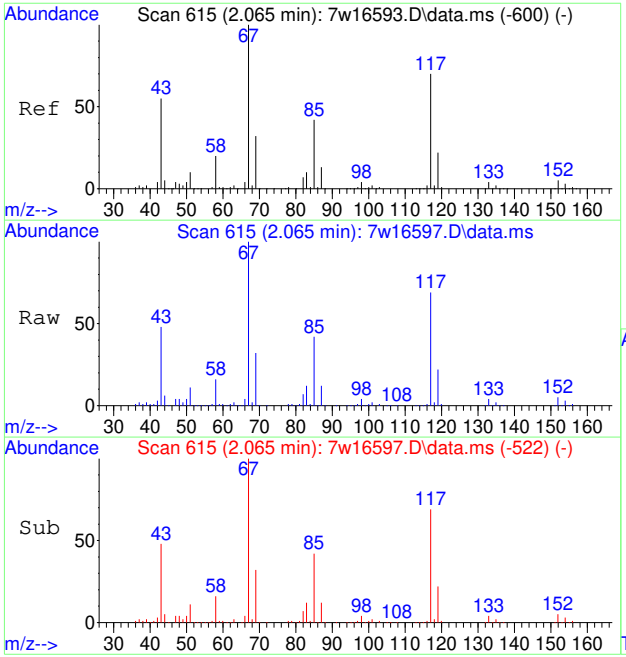


#19
FREON 123
Concen: 10.84 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 270679

Ion	Ratio	Lower	Upper
83	100		
85	91.4	64.9	120.5
133	21.2	14.7	27.3

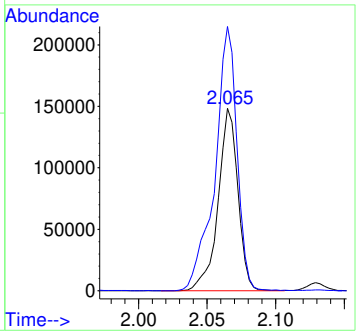


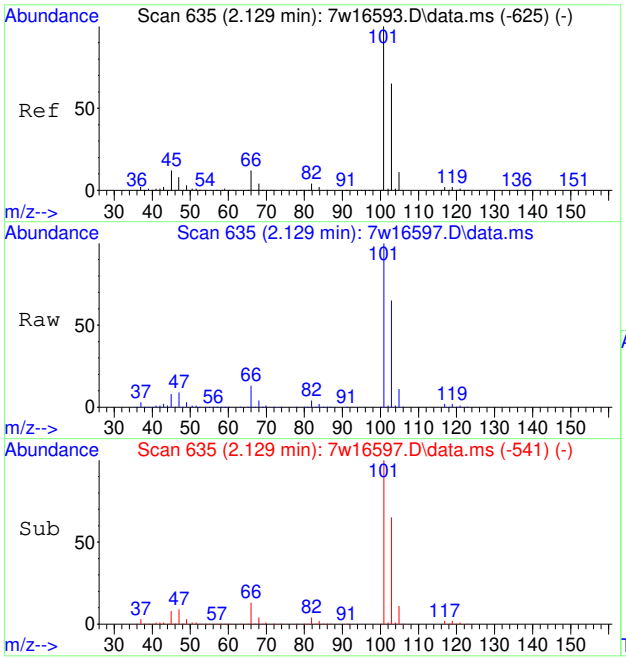


#20
FREON 123A
Concen: 10.06 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 148778

Ion	Ratio	Lower	Upper
117	100		
67	161.4	111.3	206.7

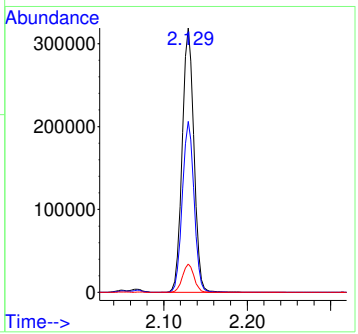


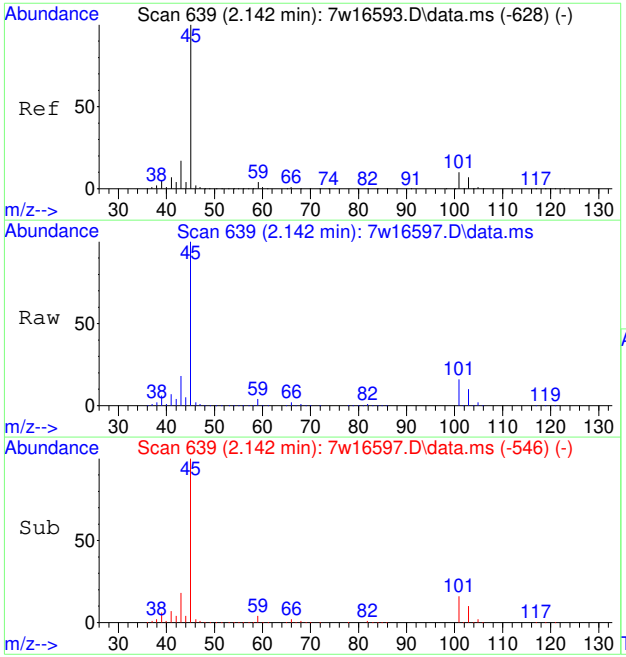


#21
TRICHLOROFLUOROMETHANE
Concen: 11.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:101 Resp: 311135

Ion	Ratio	Lower	Upper
101	100		
103	64.7	45.2	84.0
105	10.6	7.3	13.5

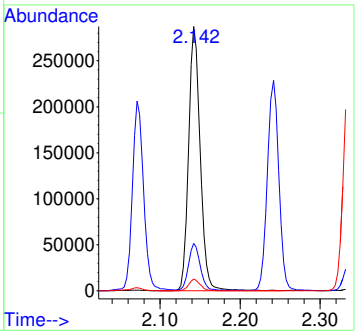


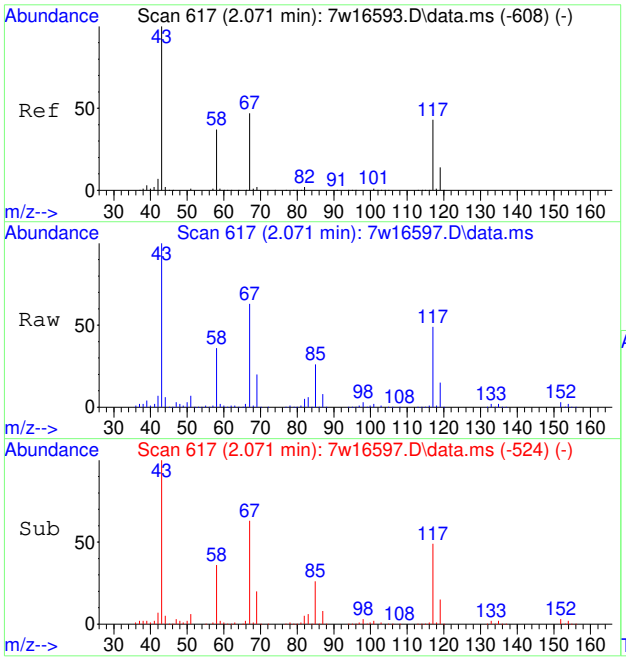


#22
ISOPROPYL ALCOHOL
Concen: 12.15 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 290247

Ion	Ratio	Lower	Upper
45	100		
43	18.3	12.5	23.3
59	4.4	3.1	5.7

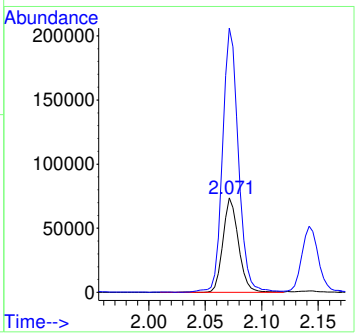


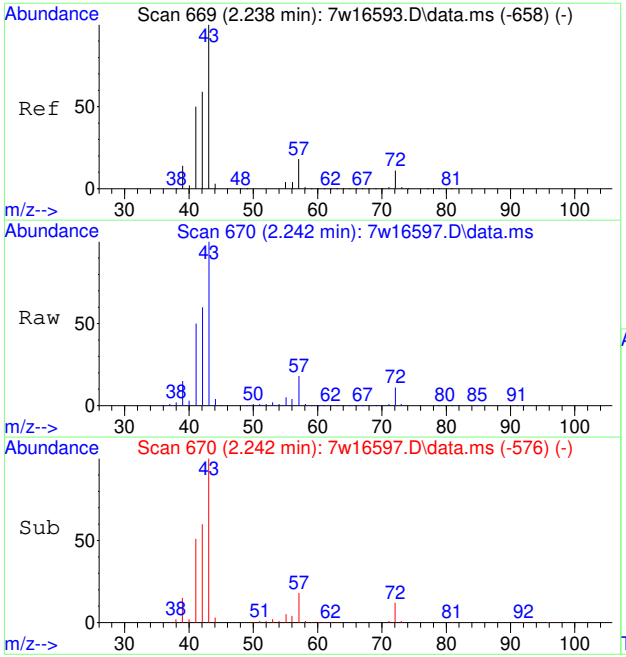


#23
ACETONE
Concen: 10.78 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 70408

Ion	Ratio	Lower	Upper
58	100		
43	284.2	198.6	368.8

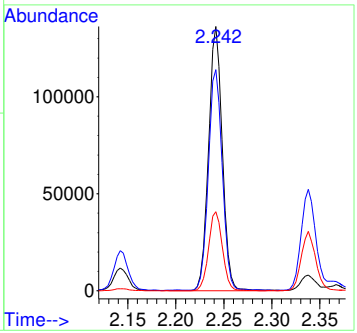


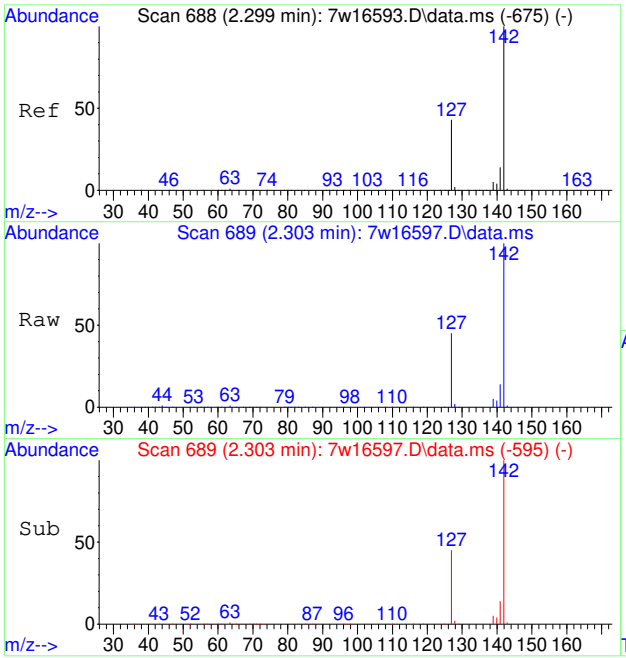


#24
PENTANE
Concen: 10.43 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 42 Resp: 134988

Ion	Ratio	Lower	Upper
42	100		
41	85.4	59.8	111.0
57	30.5	21.1	39.1

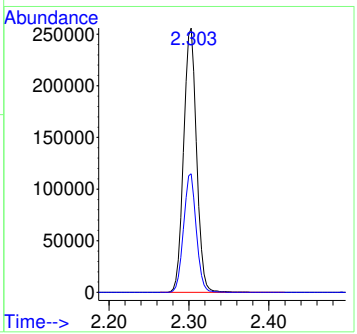


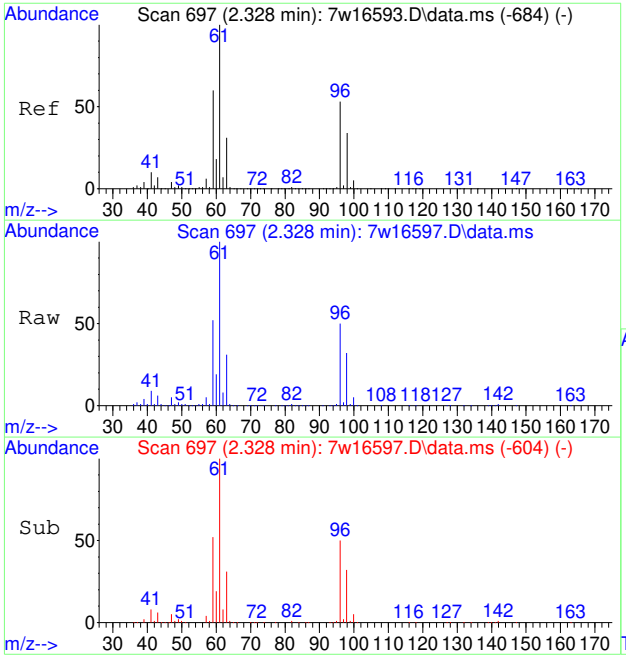


#25
IODOMETHANE
Concen: 11.08 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:142 Resp: 287484

Ion	Ratio	Lower	Upper
142	100		
127	44.2	30.6	56.8

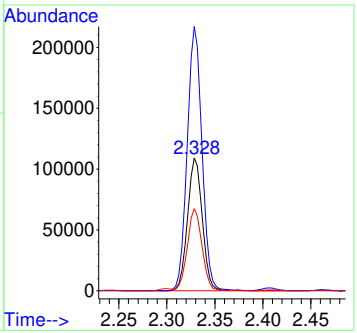


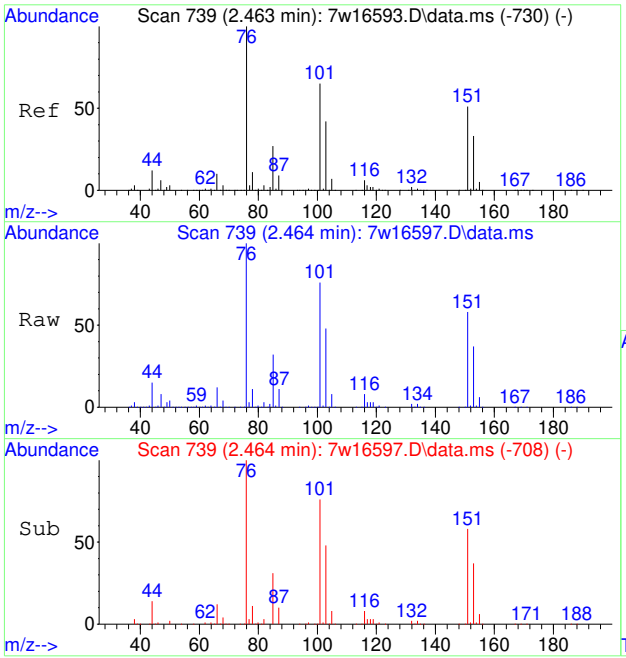


#26
1,1-DICHLOROETHYLENE
Concen: 10.89 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 117061

Ion	Ratio	Lower	Upper
96	100		
61	198.6	138.3	256.8
63	62.7	44.2	82.0

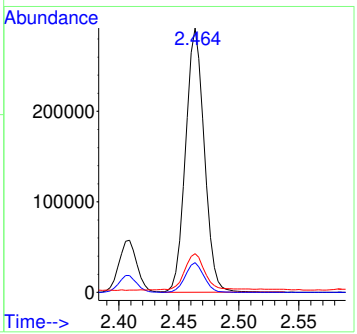


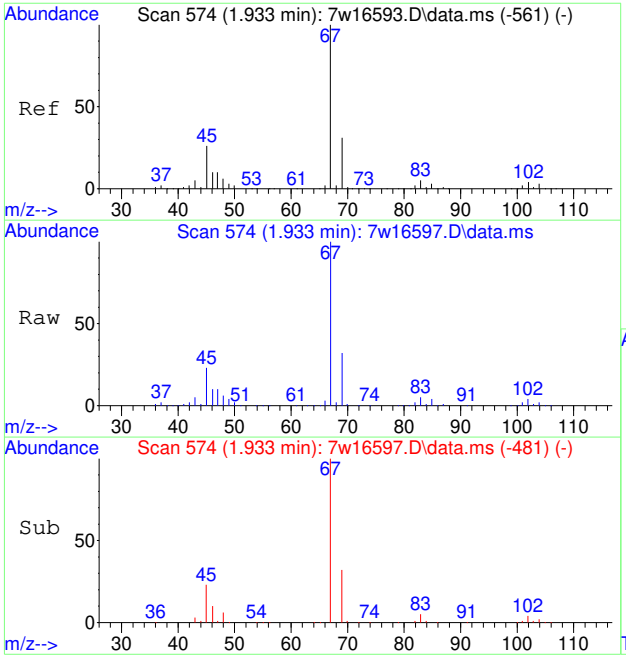


#27
CARBON DISULFIDE
Concen: 10.38 PPBV
RT: 2.464 min Scan# 739
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 316603

Ion	Ratio	Lower	Upper
76	100		
78	11.2	7.7	14.3
44	15.7	10.2	19.0

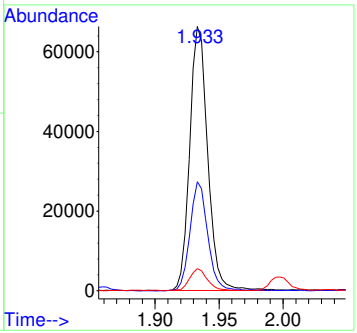


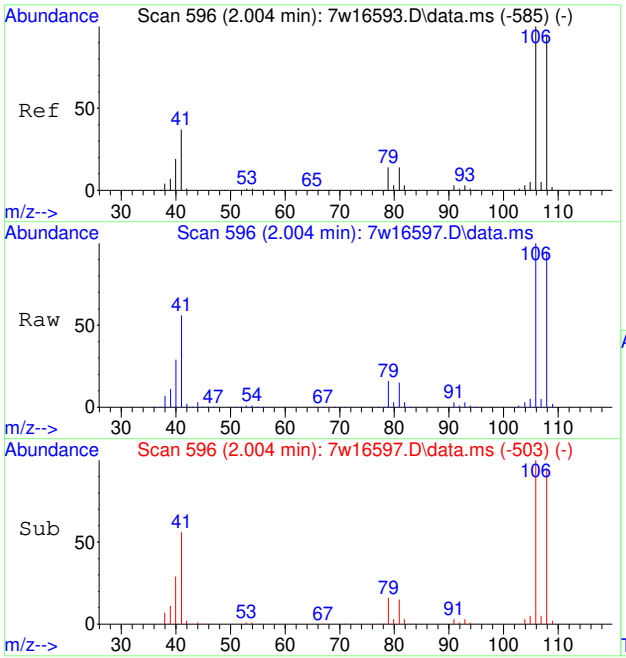


#28
ETHANOL
Concen: 10.20 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 64897

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.0	53.9
42	8.0	5.7	10.5

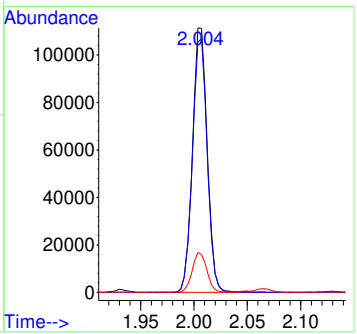


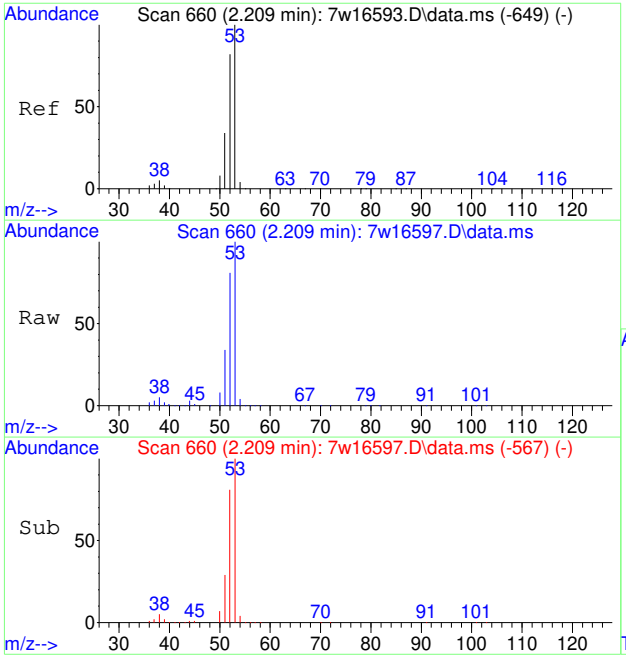


#29
BROMOETHENE
Concen: 10.44 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:106 Resp: 107141

Ion	Ratio	Lower	Upper
106	100		
108	95.8	66.1	122.7
81	15.1	10.6	19.8

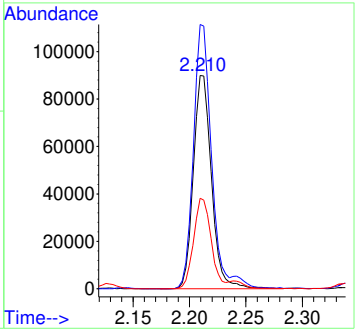


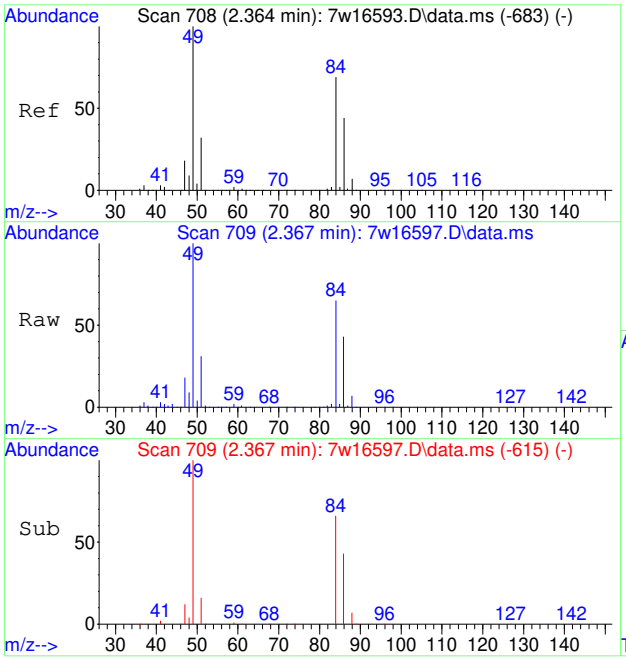


#30
ACRYLONITRILE
Concen: 10.95 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 100564

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.5	31.3	58.1

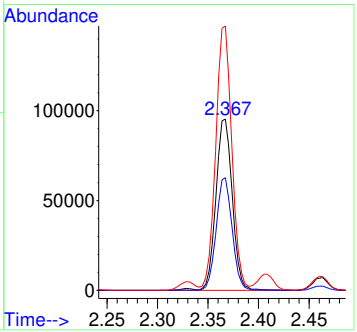


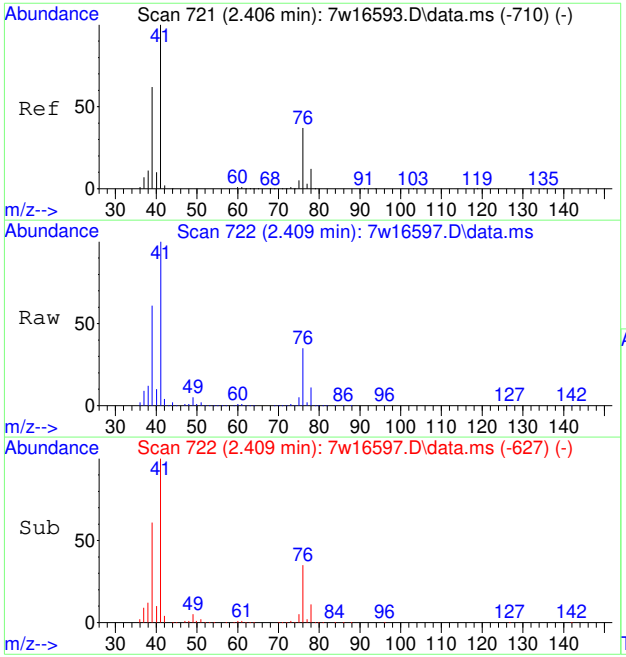


#31
METHYLENE CHLORIDE
Concen: 10.27 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 108156

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.3	82.3
49	150.9	109.5	203.3

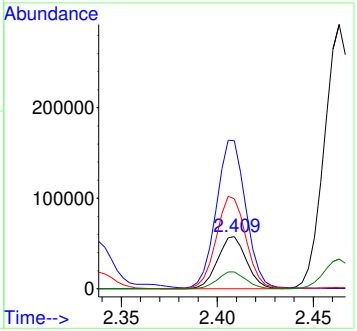


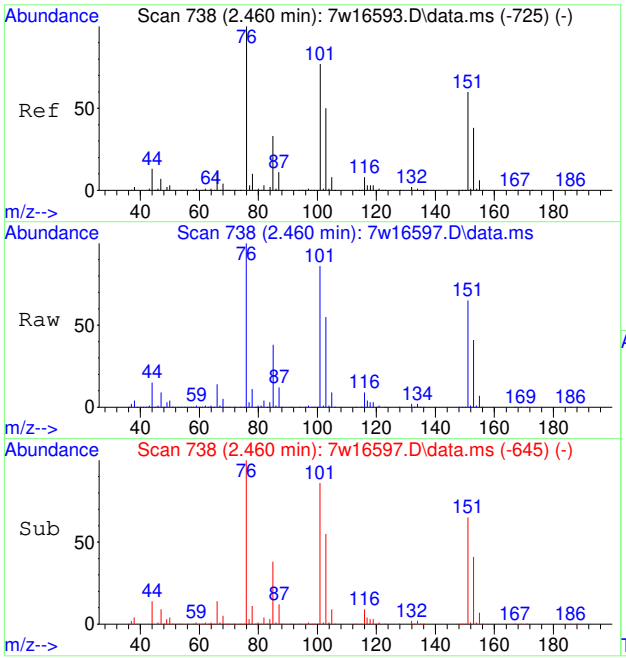


#32
3-CHLOROPROPENE
Concen: 10.52 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 60492

Ion	Ratio	Lower	Upper
76	100		
41	291.7	202.6	376.2
39	181.6	125.8	233.6
78	32.4	23.1	42.9

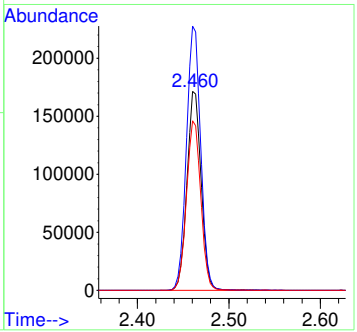


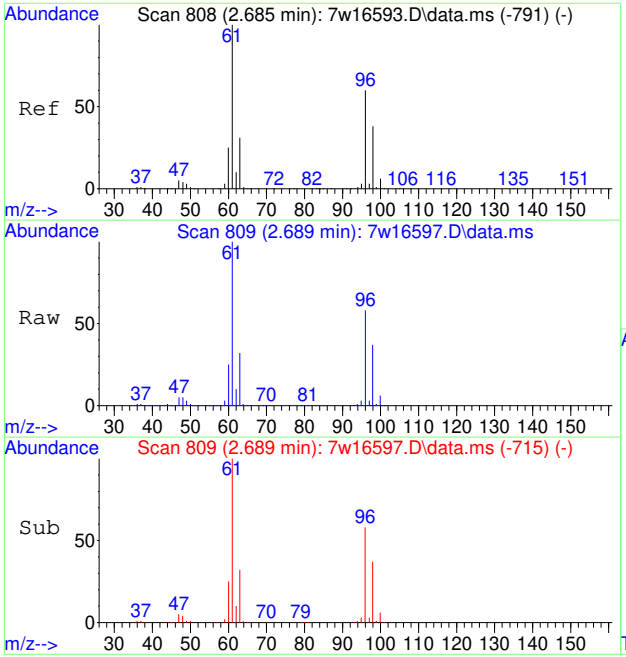


#33
FREON 113
Concen: 11.44 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:151 Resp: 185131

Ion	Ratio	Lower	Upper
151	100		
101	133.4	93.1	172.9
103	85.8	60.1	111.5

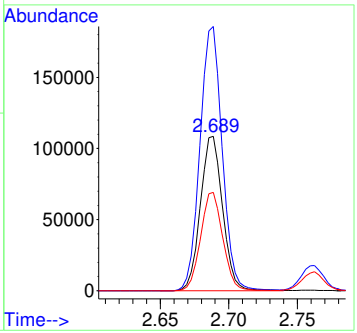


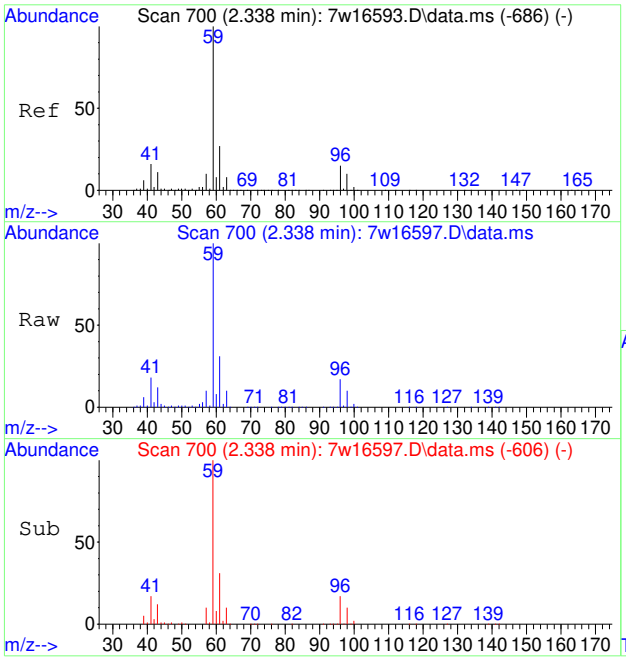


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.33 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 122177

Ion	Ratio	Lower	Upper
96	100		
61	171.2	119.6	222.0
98	63.6	44.9	83.5

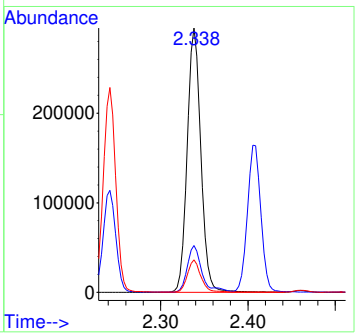


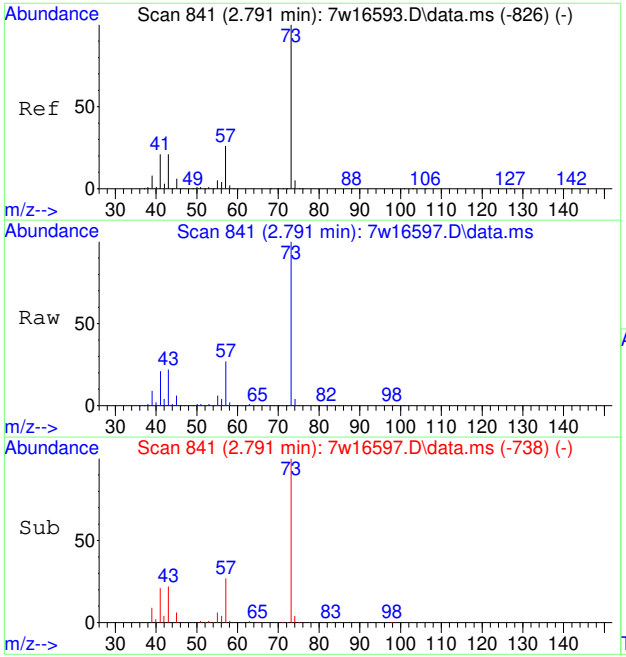


#35
TERTIARY BUTYL ALCOHOL
Concen: 10.78 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 321878

Ion	Ratio	Lower	Upper
59	100		
41	18.6	12.9	23.9
43	12.1	8.0	14.8

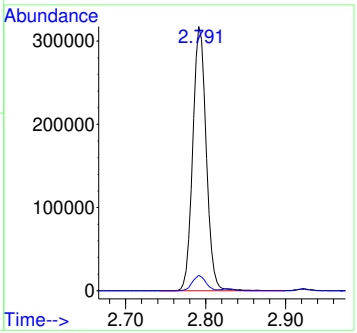


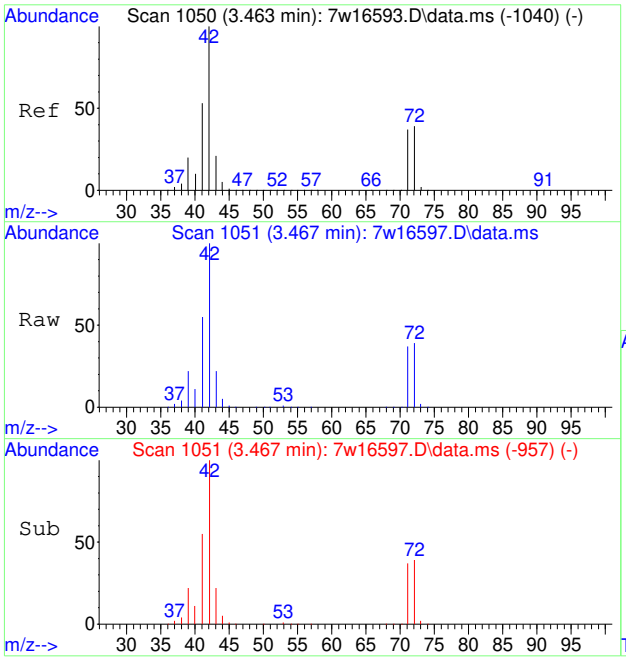


#36
METHYL TERTIARY BUTYL ETHER
Concen: 11.06 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 73 Resp: 372091

Ion	Ratio	Lower	Upper
73	100		
45	5.8	4.1	7.5

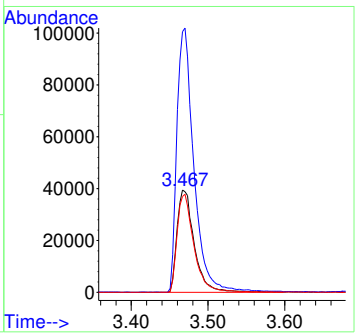


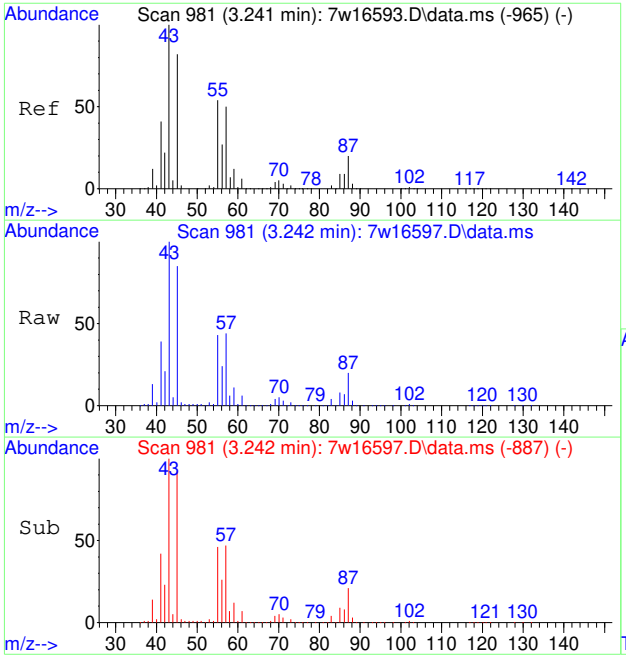


#37
TETRAHYDROFURAN
Concen: 11.34 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 61873

Ion	Ratio	Lower	Upper
72	100		
42	255.2	180.3	334.8
71	93.5	65.8	122.2

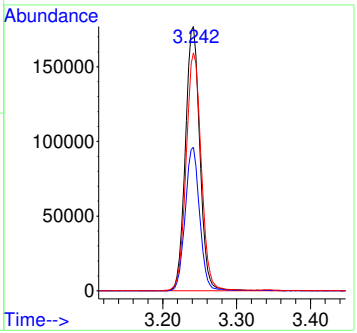


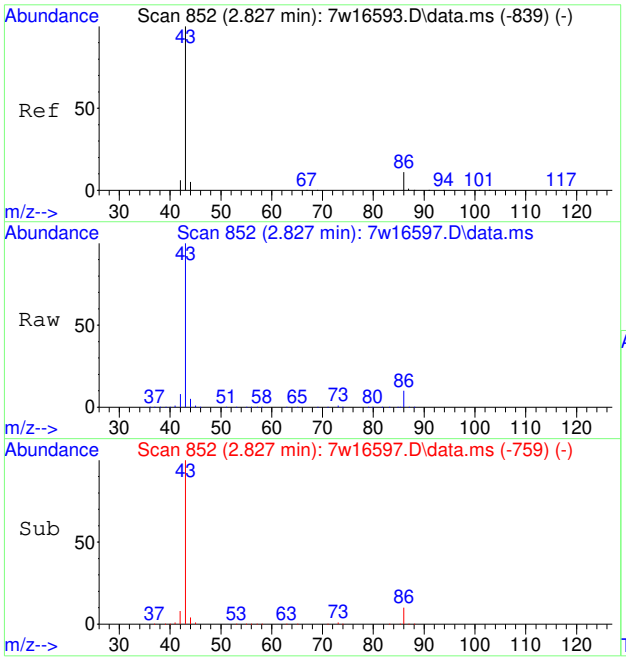


#38
HEXANE
Concen: 10.65 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 241359

Ion	Ratio	Lower	Upper
57	100		
56	54.3	38.0	70.6
41	94.3	65.9	122.5

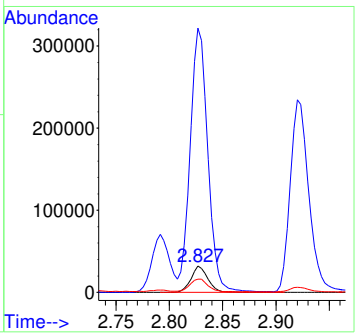


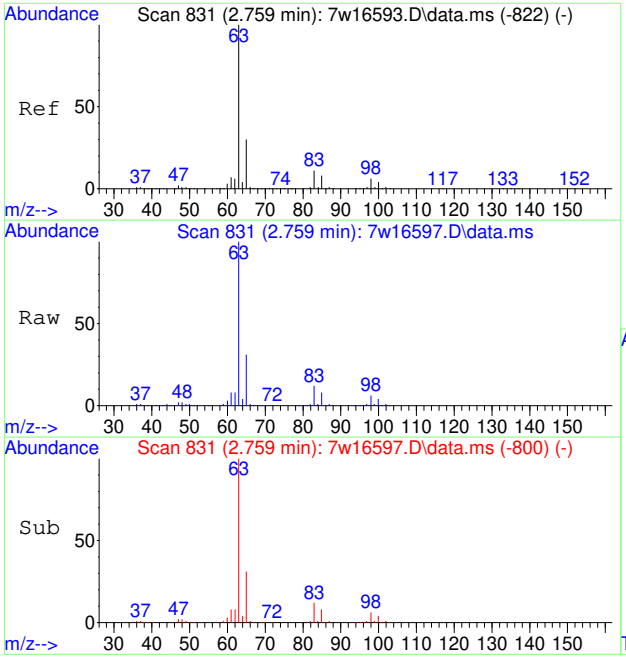


#39
VINYL ACETATE
Concen: 10.80 PPBV
RT: 2.827 min Scan# 852
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 86 Resp: 34923

Ion	Ratio	Lower	Upper
86	100		
43	1069.3	758.7	1408.9
44	53.9	39.5	73.3

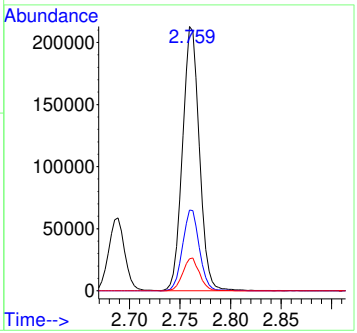


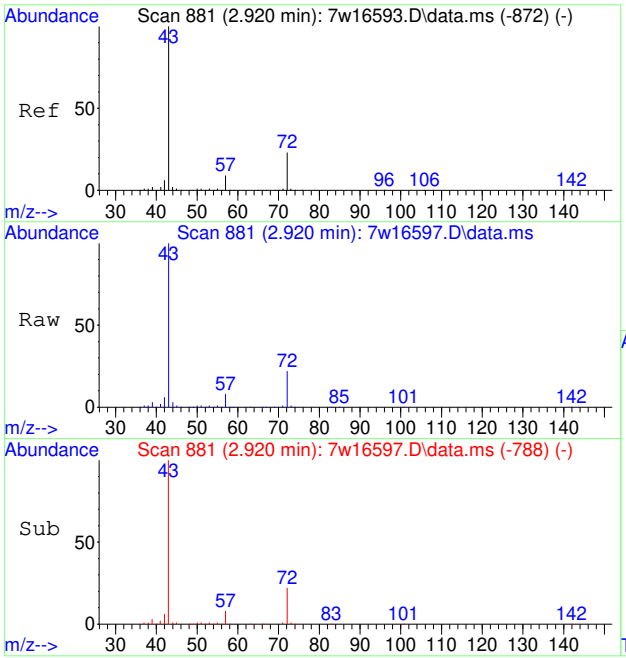


#40
1,1-DICHLOROETHANE
Concen: 10.82 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 247364

Ion	Ratio	Lower	Upper
63	100		
65	30.7	21.4	39.8
83	12.4	8.3	15.5

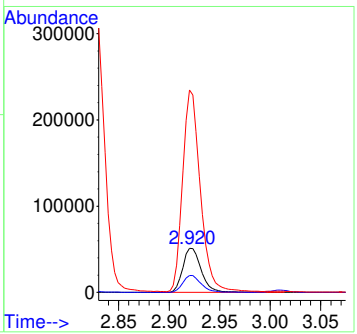


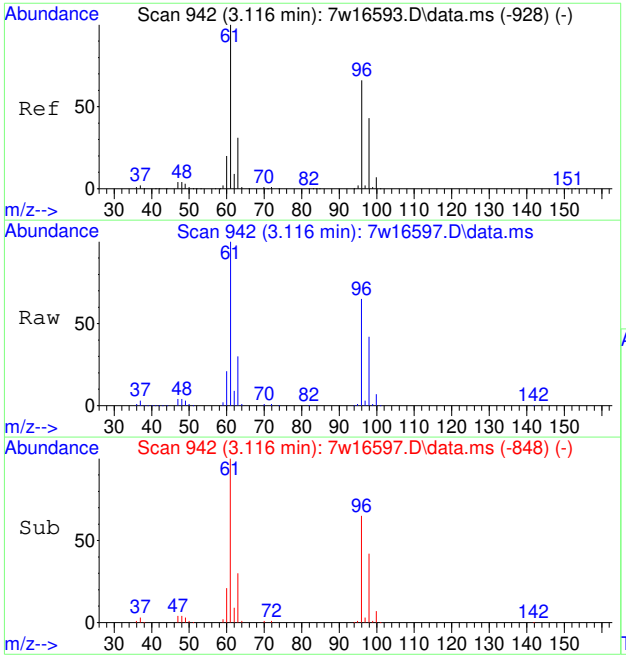


#41
METHYL ETHYL KETONE
Concen: 10.54 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 65125

Ion	Ratio	Lower	Upper
72	100		
57	38.2	26.9	49.9
43	435.4	309.4	574.6

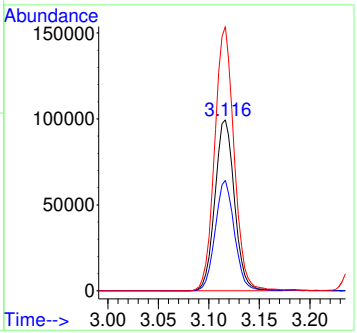


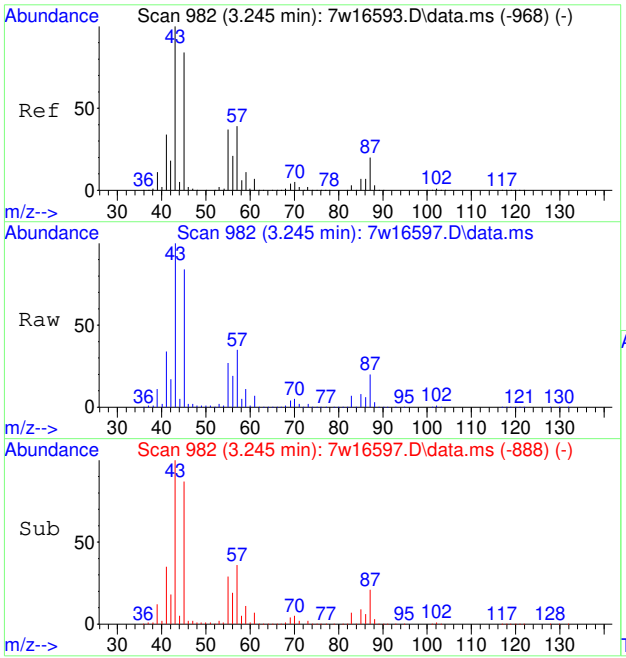


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.92 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 133909

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	153.4	107.3	199.3

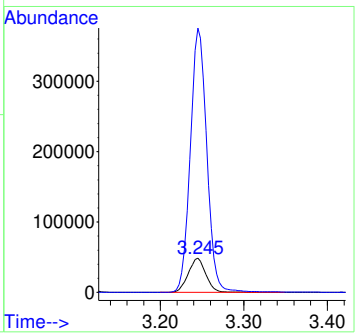


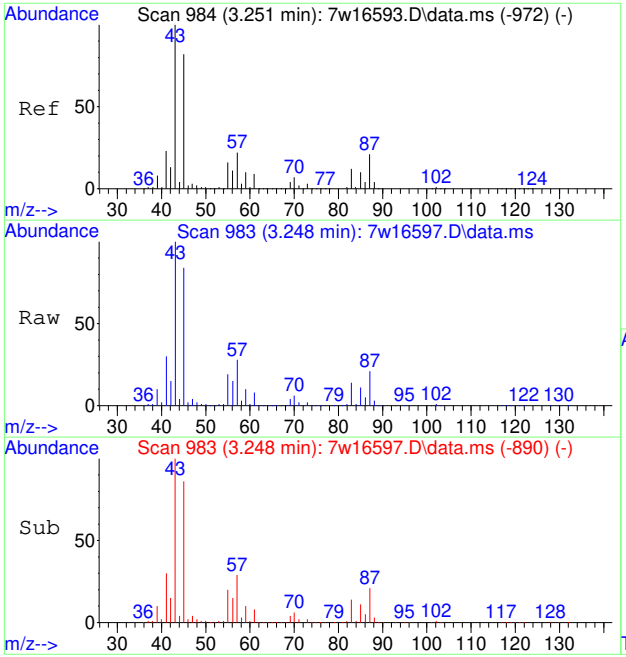


#43
DIISOPROPYL ETHER
Concen: 11.12 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 71425

Ion	Ratio	Lower	Upper
59	100		
45	726.0	517.6	961.2

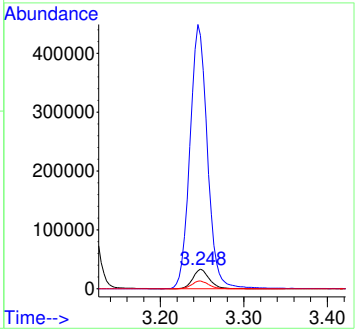


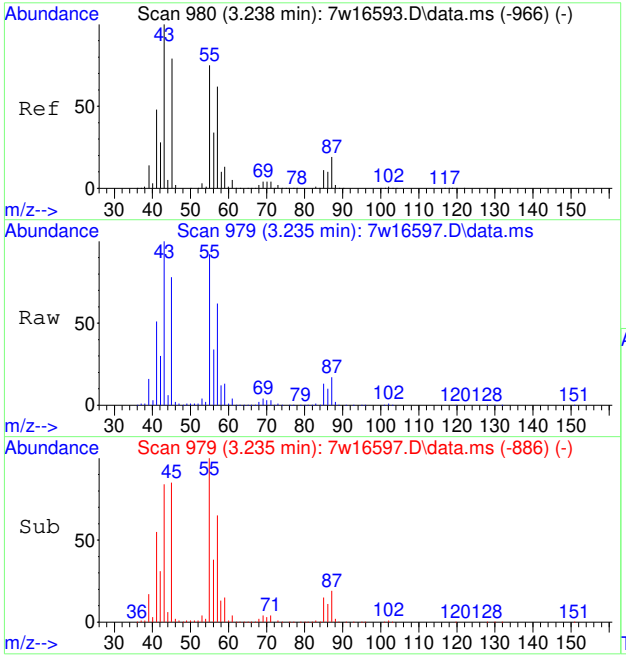


#44
ETHYL ACETATE
Concen: 10.62 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 61 Resp: 46105

Ion	Ratio	Lower	Upper
61	100		
43	1420.7	955.4	1774.4
88	41.4	27.6	51.2

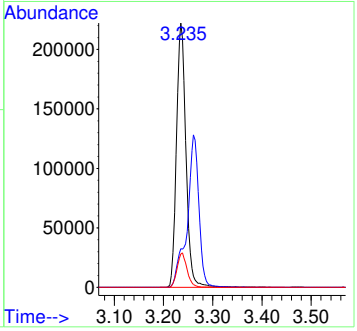


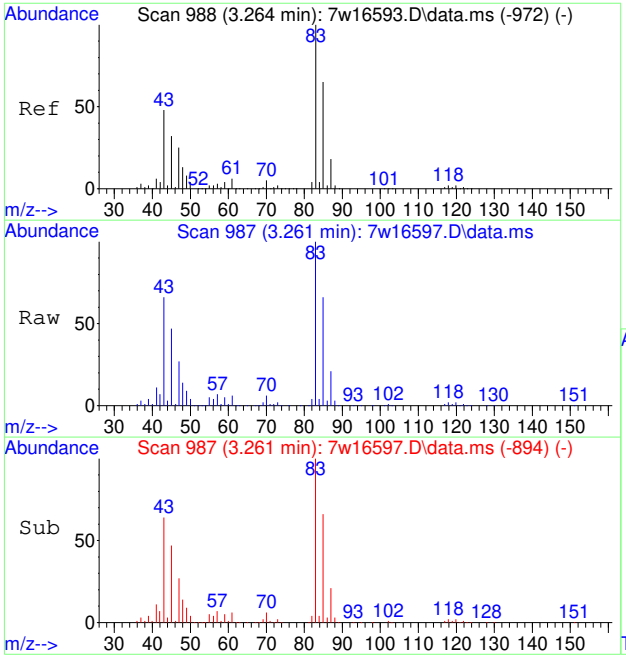


#45
METHYL ACRYLATE
Concen: 10.90 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 298658

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

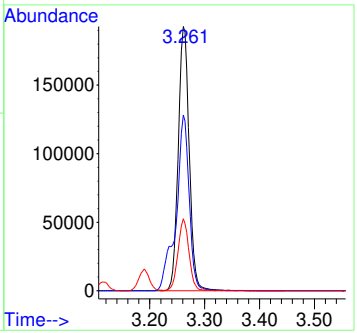


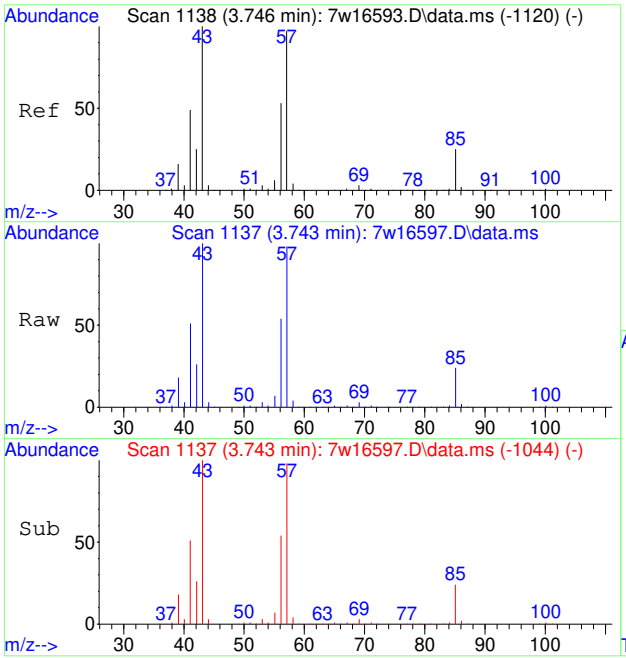


#46
CHLOROFORM
Concen: 11.35 PPBV
RT: 3.261 min Scan# 987
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 268569

Ion	Ratio	Lower	Upper
83	100		
85	79.6	56.0	104.0
47	27.5	19.0	35.4

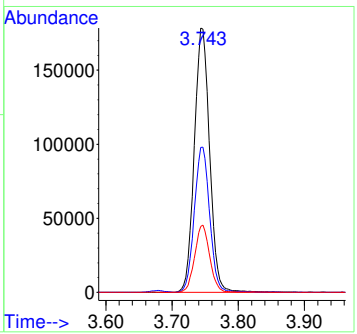


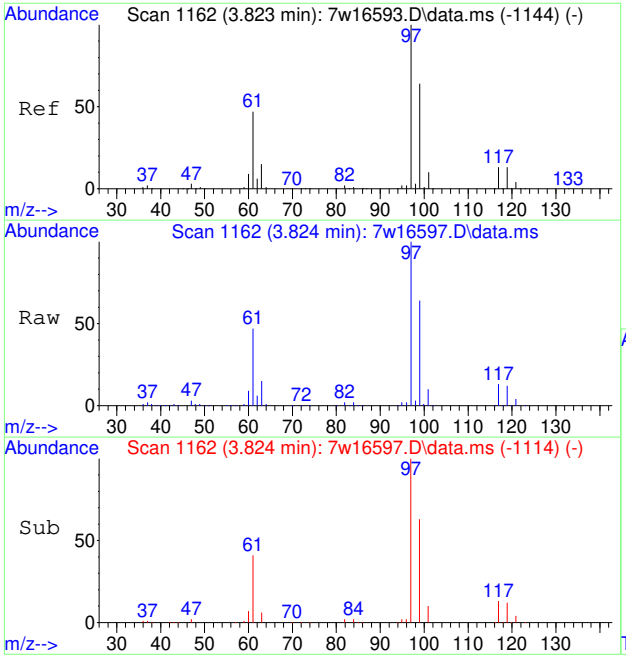


#47
2,4-DIMETHYLPENTANE
Concen: 11.35 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 287870

Ion	Ratio	Lower	Upper
57	100		
56	55.4	38.4	71.2
85	25.0	17.5	32.5

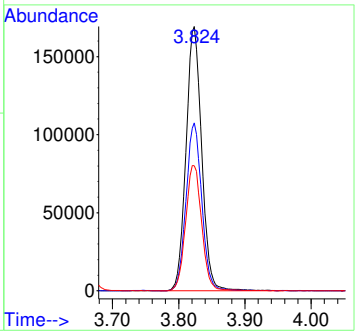


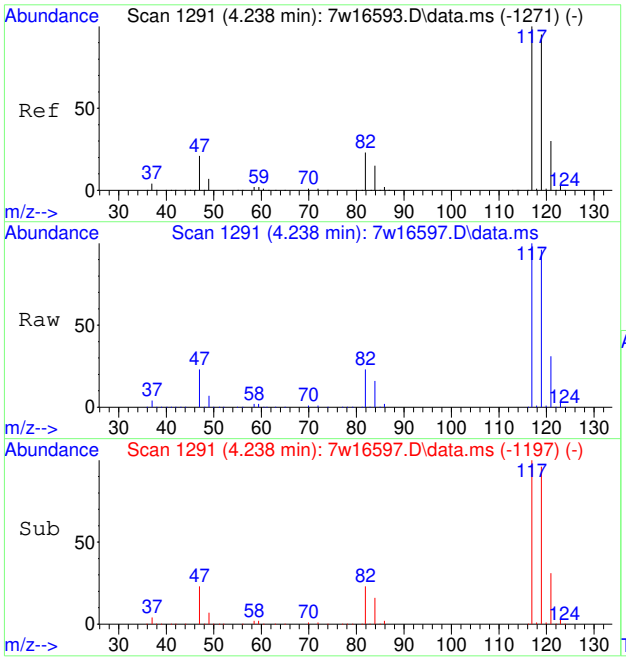


#48
1,1,1-TRICHLOROETHANE
Concen: 11.20 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 97 Resp: 279200

Ion	Ratio	Lower	Upper
97	100		
99	63.8	45.0	83.6
61	48.8	34.7	64.5

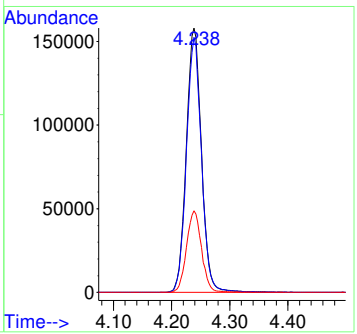


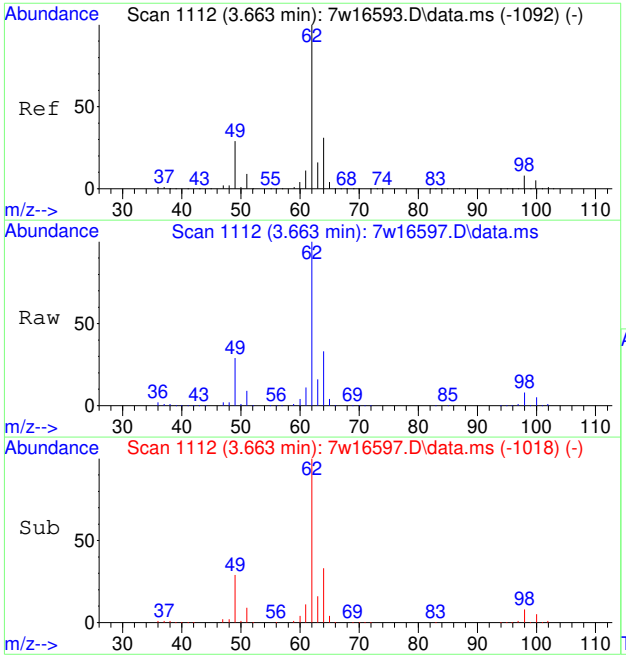


#49
CARBON TETRACHLORIDE
Concen: 11.10 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 286618

Ion	Ratio	Lower	Upper
117	100		
119	95.8	67.5	125.3
121	30.7	21.3	39.5

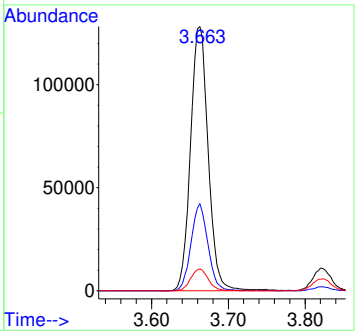


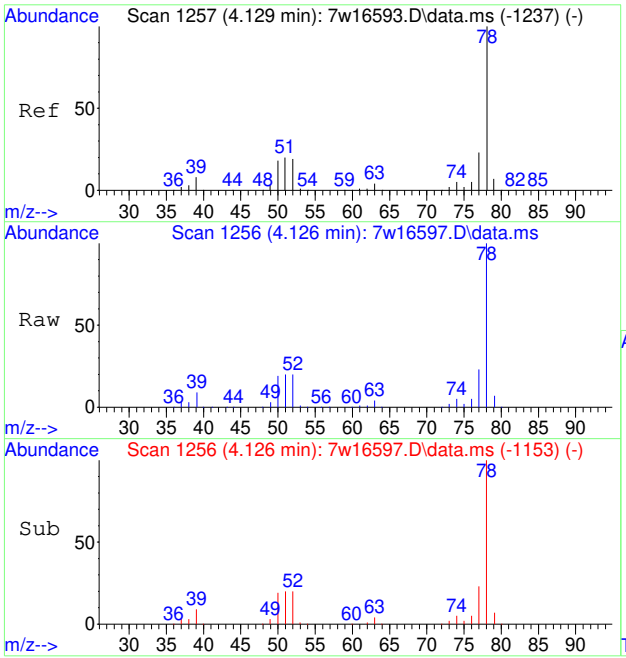


#50
1,2-DICHLOROETHANE
Concen: 11.17 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 205457

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.3	5.8	10.8

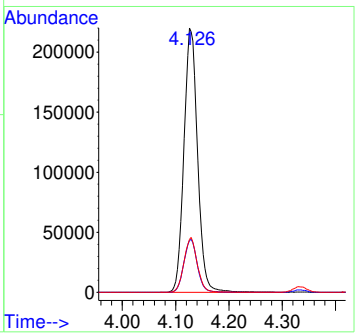


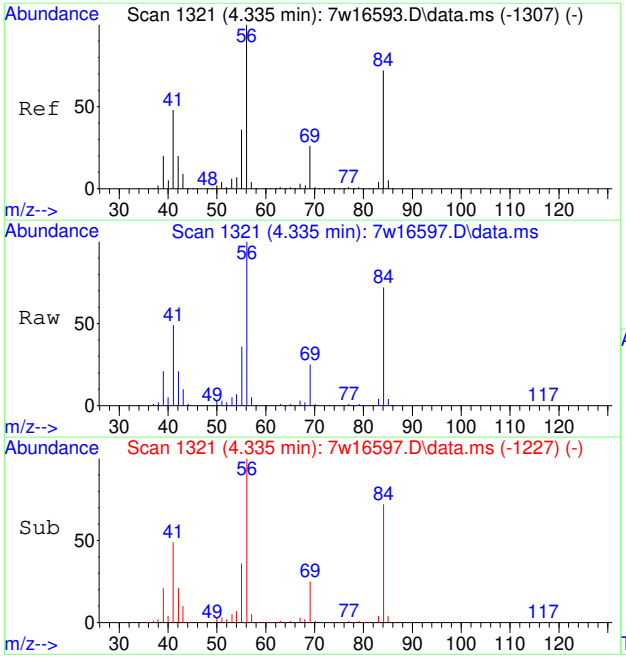


#51
BENZENE
Concen: 10.80 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 78 Resp: 392045

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	49.9
51	20.3	0.0	50.6

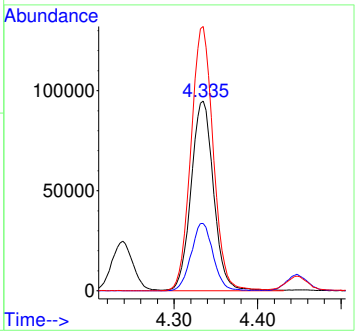


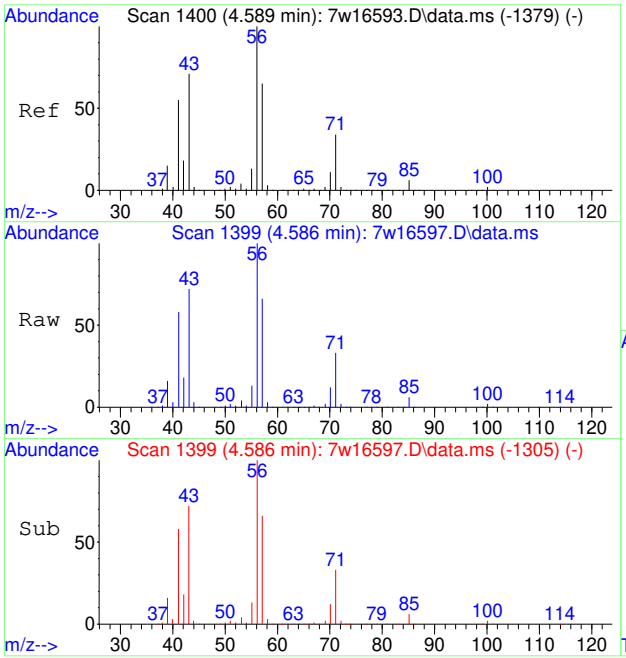


#53
CYCLOHEXANE
Concen: 11.13 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 178042

Ion	Ratio	Lower	Upper
84	100		
69	34.9	24.6	45.6
56	137.7	96.4	179.0

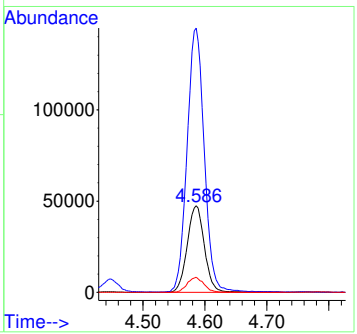


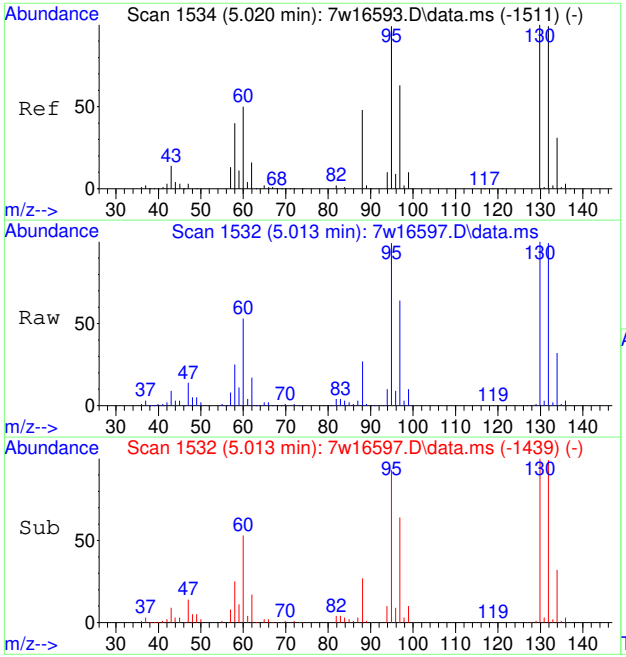


#54
2,3-DIMETHYLPENTANE
Concen: 11.55 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 71 Resp: 92136

Ion	Ratio	Lower	Upper
71	100		
56	303.3	213.2	396.0
85	17.0	12.2	22.6

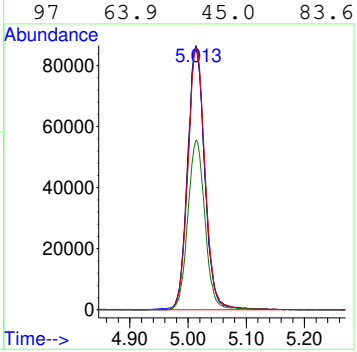


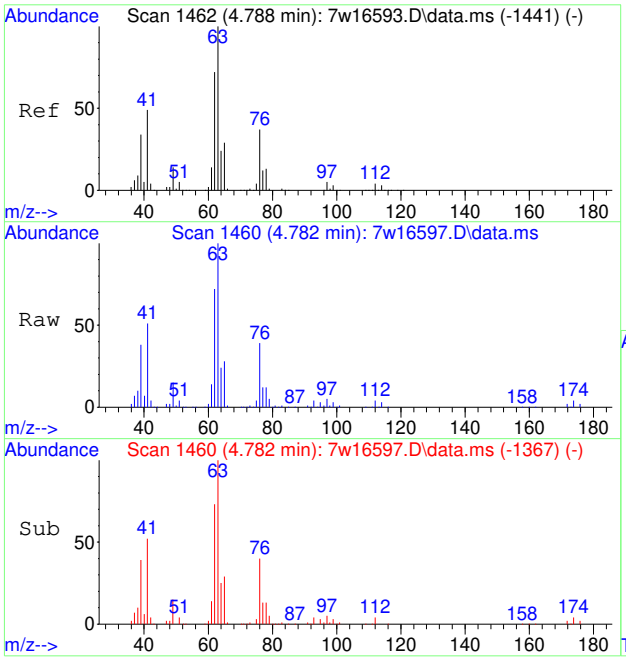


#55
TRICHLOROETHENE
Concen: 10.41 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 95 Resp: 177553

Ion	Ratio	Lower	Upper
95	100		
130	99.6	69.4	129.0
132	99.5	69.4	128.8
97	63.9	45.0	83.6

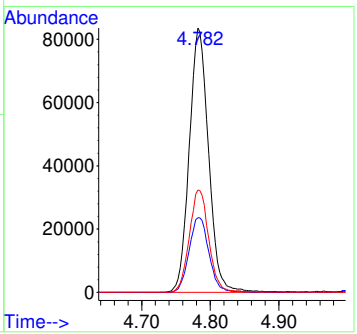


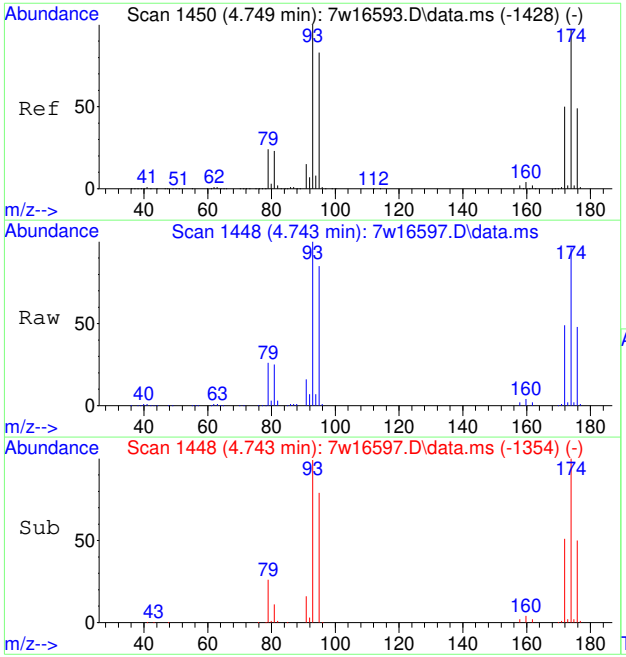


#56
1,2-DICHLOROPROPANE
Concen: 10.84 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 163448

Ion	Ratio	Lower	Upper
63	100		
65	29.3	20.5	38.1
76	39.1	27.1	50.3

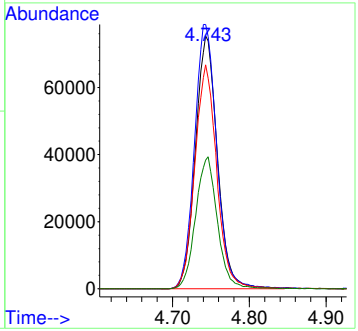


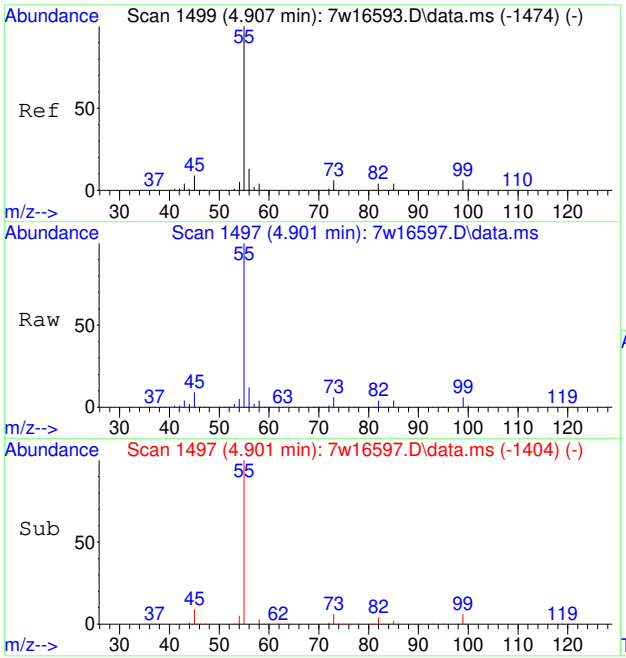


#57
DIBROMOMETHANE
Concen: 10.35 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:174 Resp: 150387

Ion	Ratio	Lower	Upper
174	100		
93	106.5	75.3	139.9
95	88.3	62.4	115.8
172	51.7	36.6	68.0

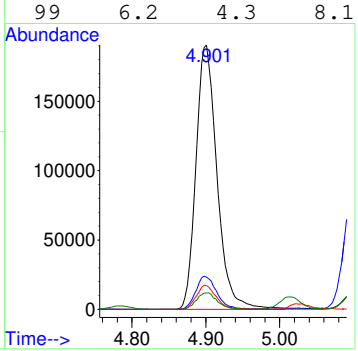


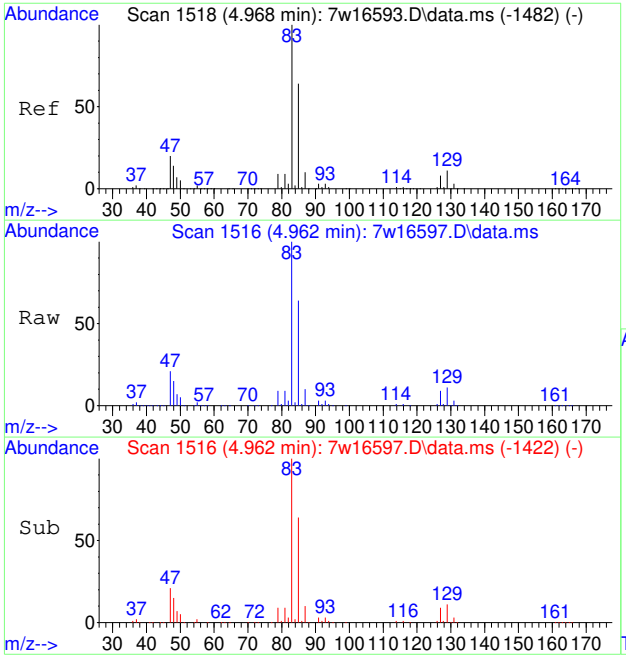


#58
ETHYL ACRYLATE
Concen: 11.17 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 376913

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.8	6.1	11.3
99	6.2	4.3	8.1

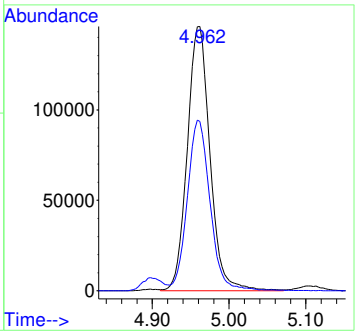


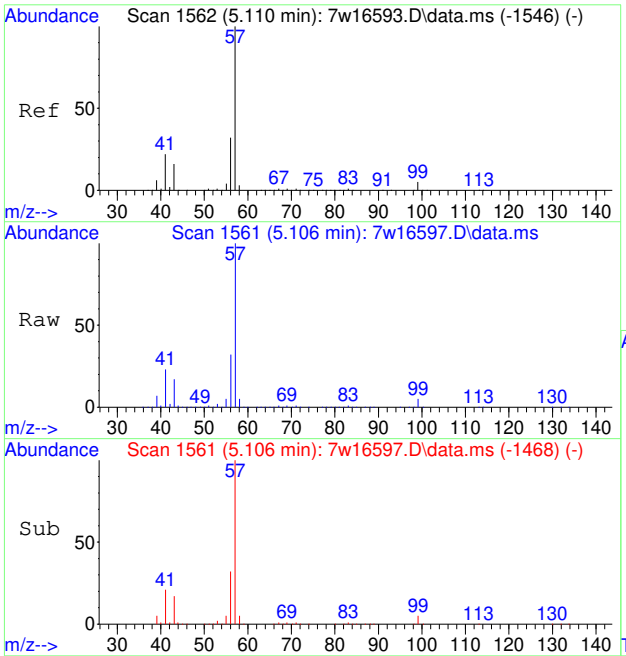


#59
BROMODICHLOROMETHANE
Concen: 10.90 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 300258

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

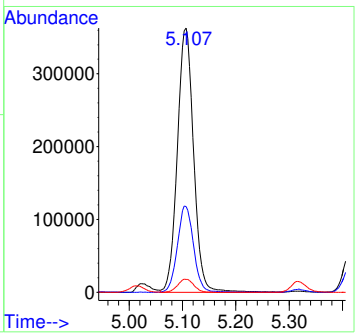


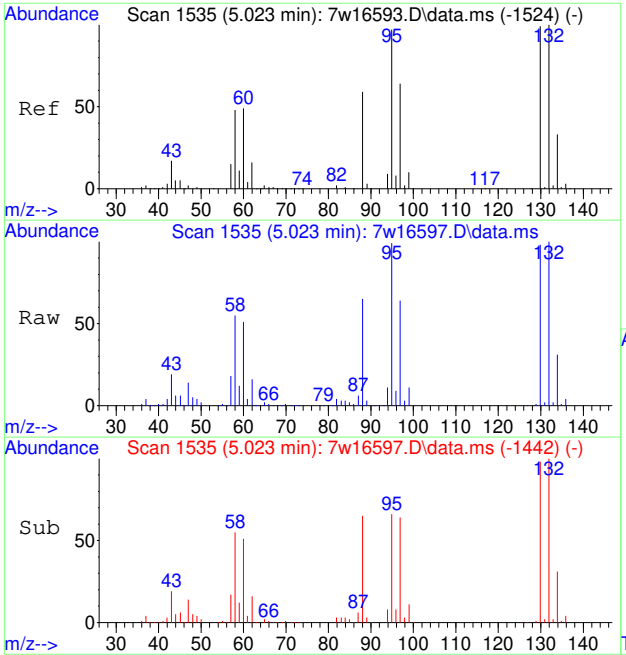


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.43 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 770282

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.0	3.6	6.8

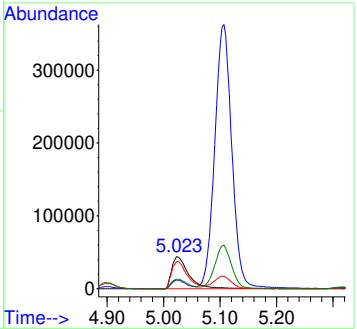


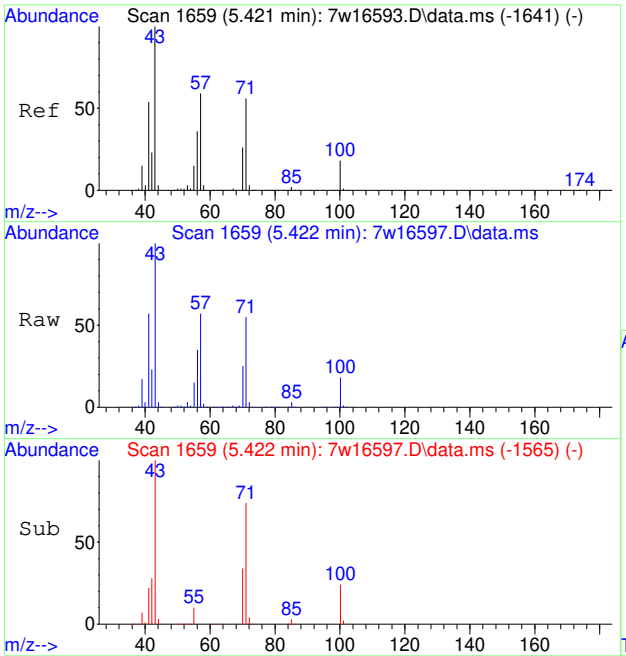


#61
1,4-DIOXANE
Concen: 11.72 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 88 Resp: 94601

Ion	Ratio	Lower	Upper
88	100		
57	23.9	16.7	30.9
58	77.5	52.4	97.4
43	26.8	18.5	34.3

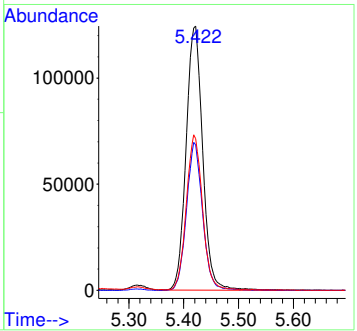


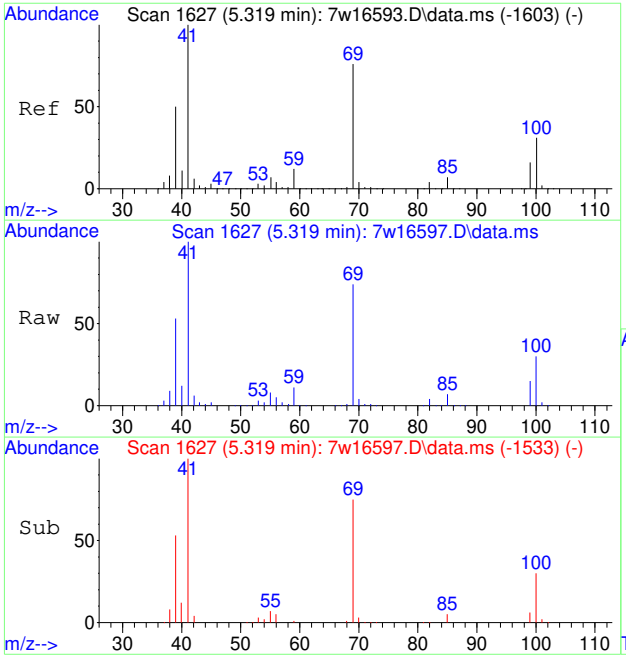


#62
HEPTANE
Concen: 10.72 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 261506

Ion	Ratio	Lower	Upper
43	100		
71	54.5	38.9	72.2
57	57.7	40.5	75.3

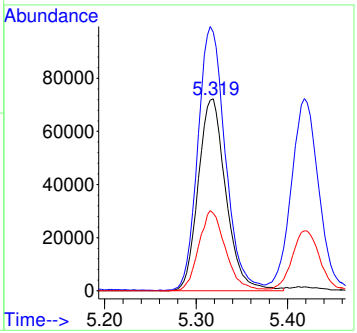


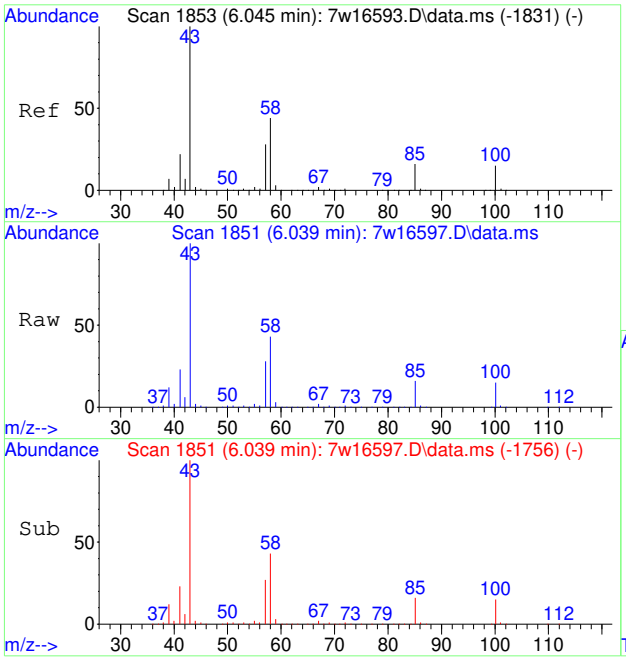


#63
METHYL METHACRYLATE
Concen: 11.09 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 152007

Ion	Ratio	Lower	Upper
69	100		
41	135.8	95.5	177.4
100	40.4	28.1	52.1

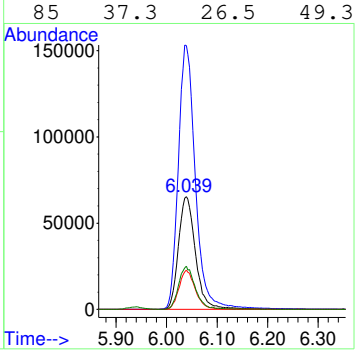


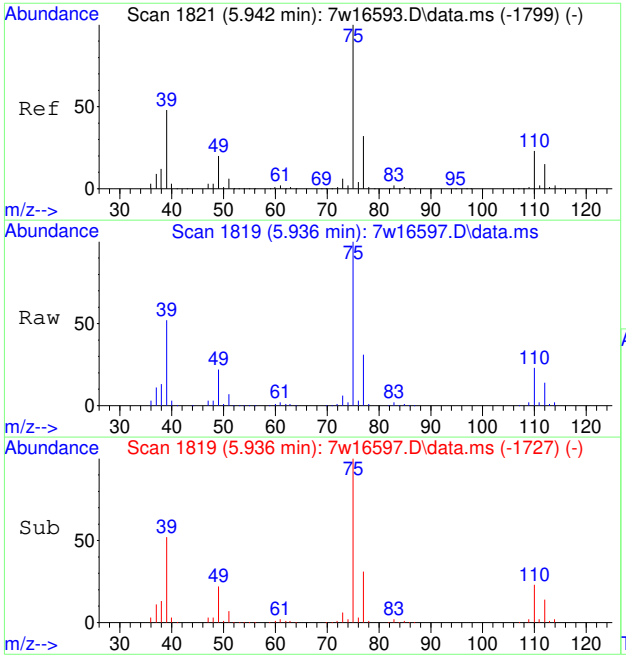


#64
METHYL ISOBUTYL KETONE
Concen: 10.57 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 154590

Ion	Ratio	Lower	Upper
58	100		
43	234.3	163.8	304.2
100	33.6	23.2	43.2
85	37.3	26.5	49.3

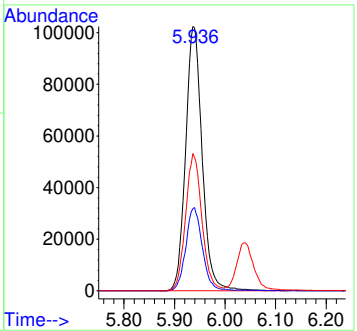


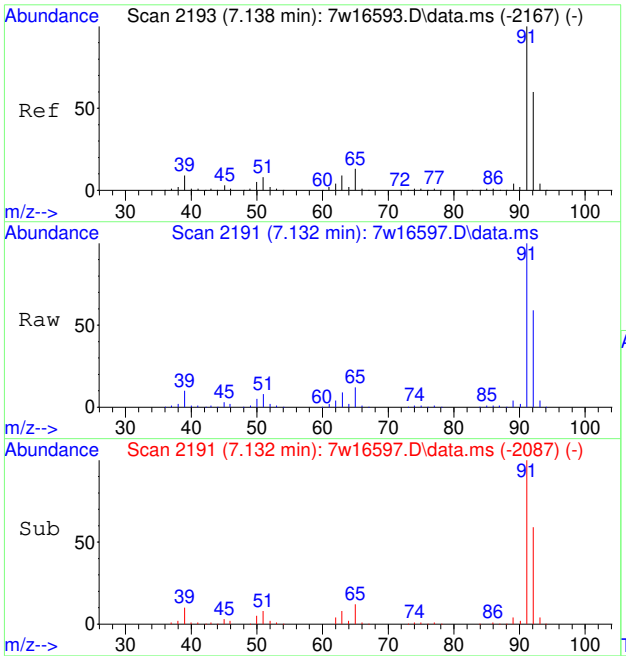


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.11 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 233811

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	41.0
39	51.1	35.7	66.3

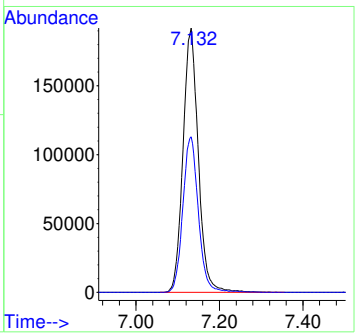


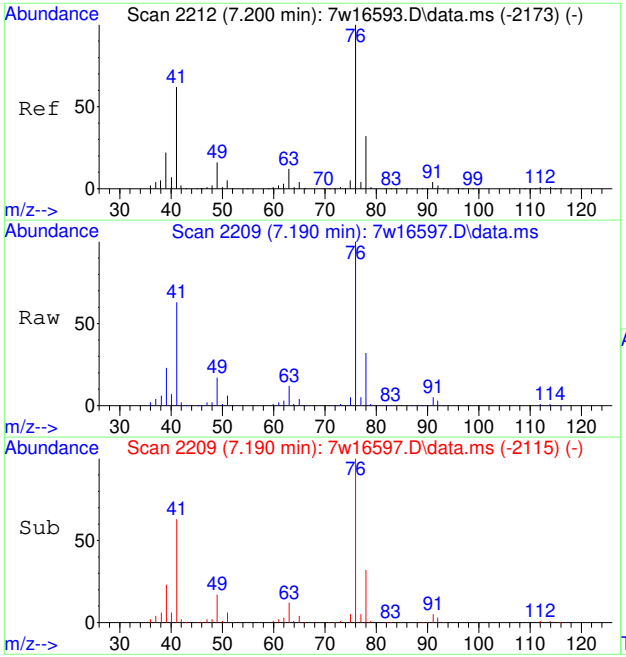


#66
TOLUENE
Concen: 11.25 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 488543

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

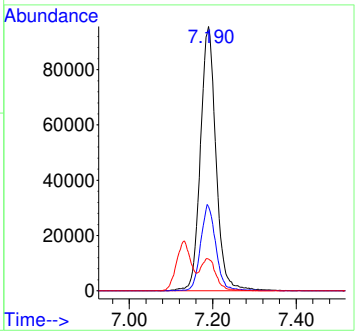


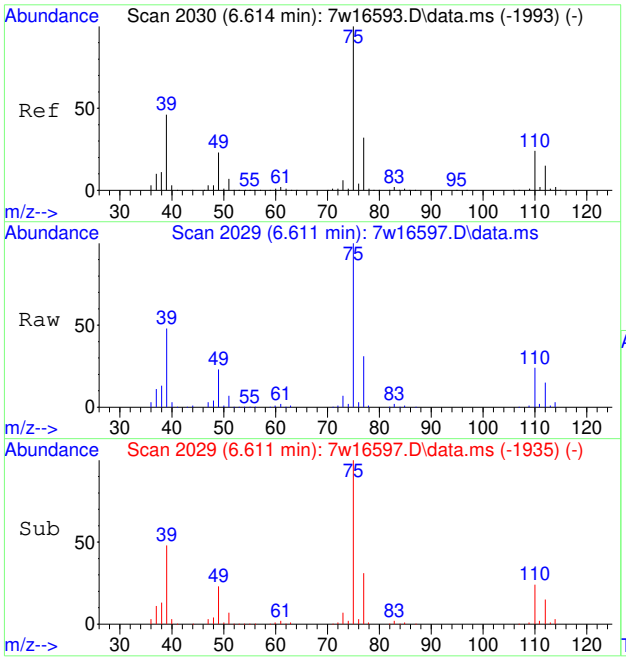


#67
1,3-DICHLOROPROPANE
Concen: 11.34 PPBV
RT: 7.190 min Scan# 2209
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 246988

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.4	41.6
63	12.0	8.3	15.5

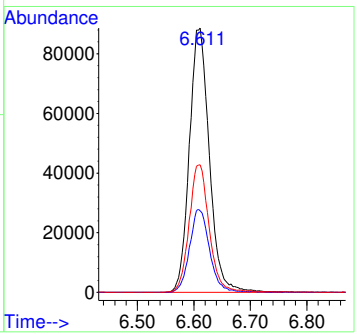


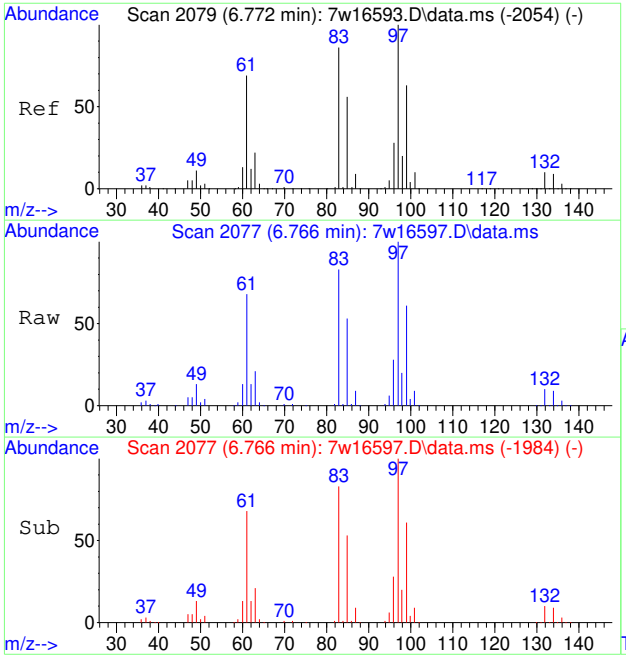


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 10.42 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 217661

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	48.8	33.9	63.0

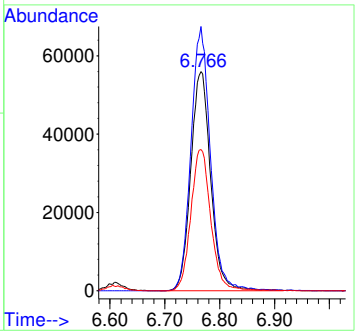


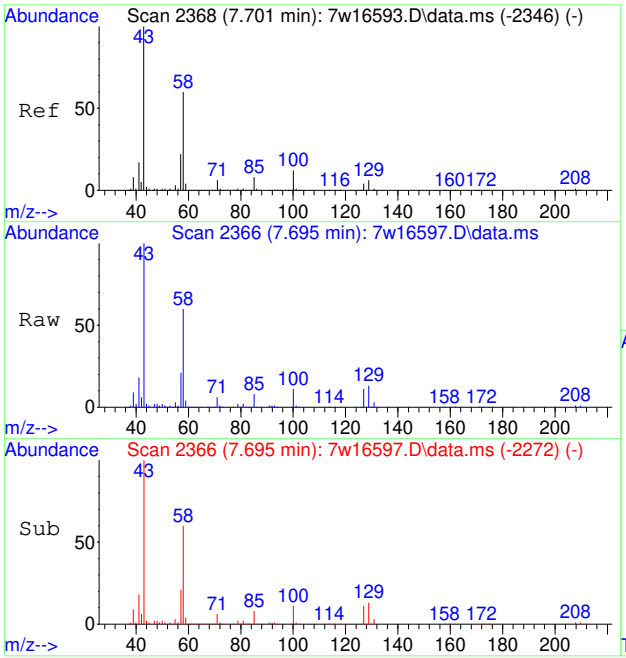


#69
1,1,2-TRICHLOROETHANE
Concen: 11.44 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 141620

Ion	Ratio	Lower	Upper
83	100		
97	117.7	81.2	150.8
85	64.6	45.1	83.7

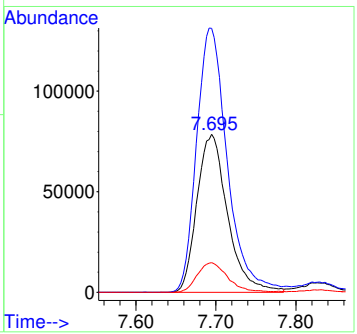


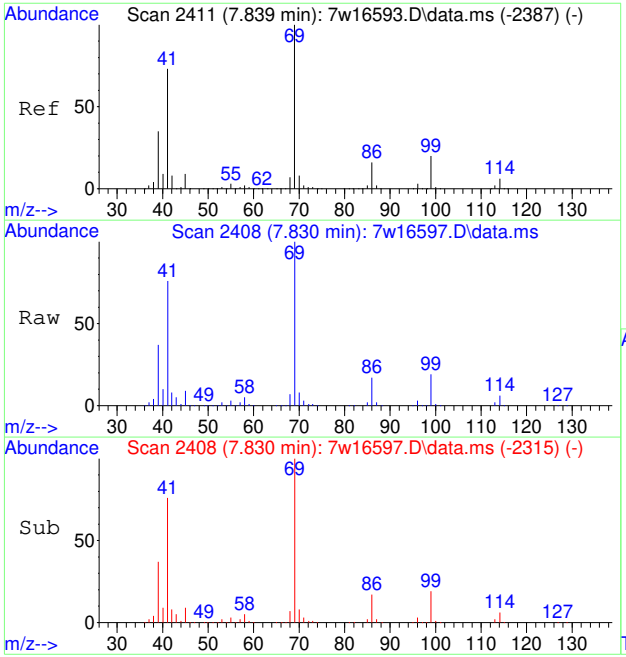


#70
2-HEXANONE
Concen: 10.26 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 209349

Ion	Ratio	Lower	Upper
58	100		
43	167.7	118.6	220.2
100	19.1	13.0	24.2

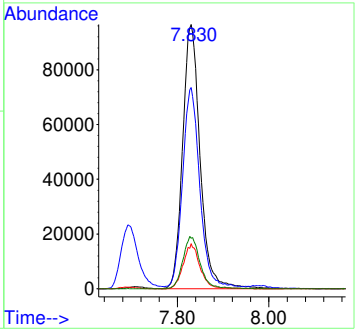


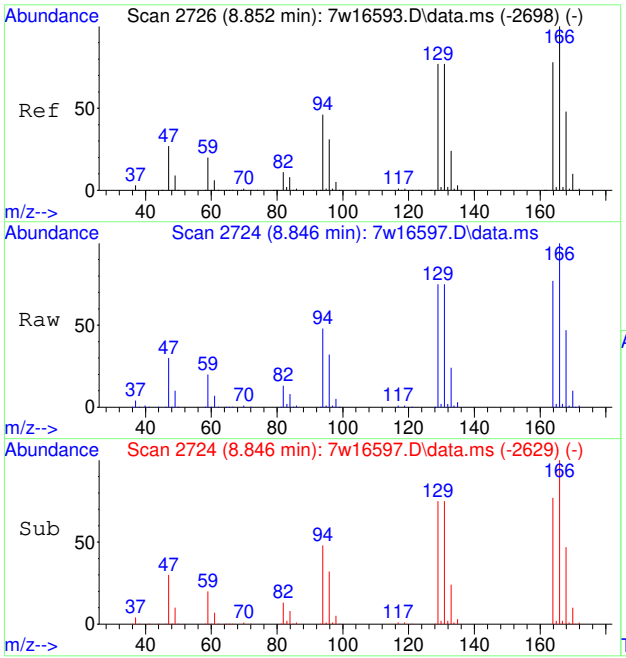


#71
ETHYL METHACRYLATE
Concen: 11.23 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 256728

Ion	Ratio	Lower	Upper
69	100		
41	75.7	53.6	99.6
86	16.4	11.3	20.9
99	19.3	13.8	25.6

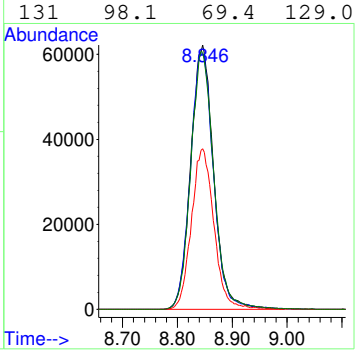


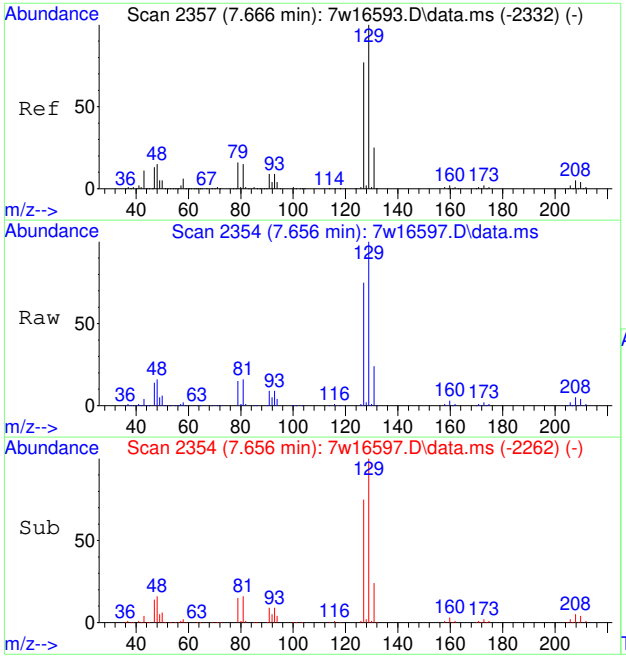


#72
TETRACHLOROETHENE
Concen: 11.40 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:164 Resp: 180607

Ion	Ratio	Lower	Upper
164	100		
129	98.9	69.6	129.2
168	60.0	42.5	78.9
131	98.1	69.4	129.0

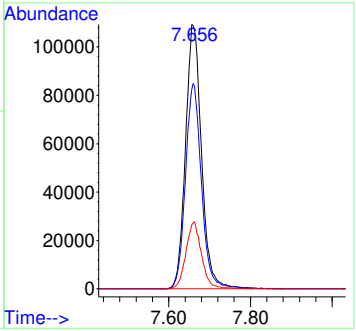


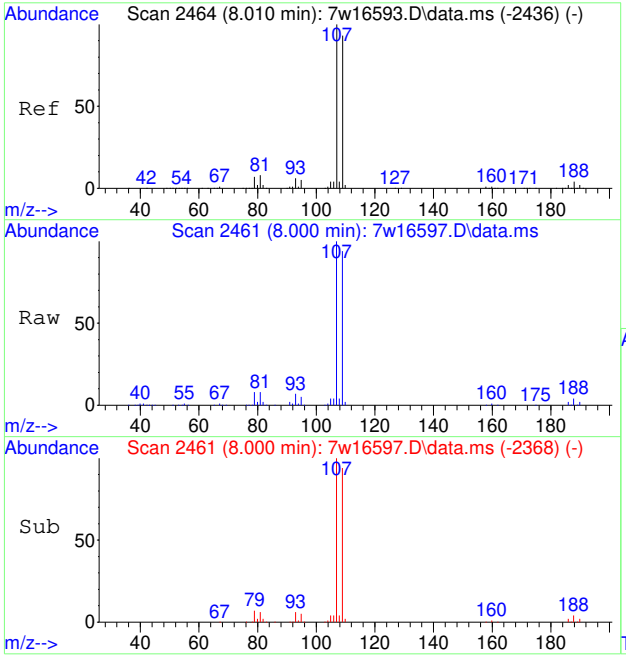


#73
DIBROMOCHLOROMETHANE
Concen: 11.82 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:129 Resp: 297263

Ion	Ratio	Lower	Upper
129	100		
127	77.7	54.7	101.7
131	24.7	17.4	32.4

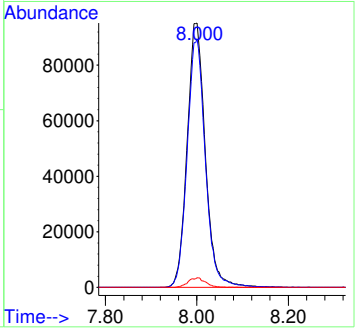


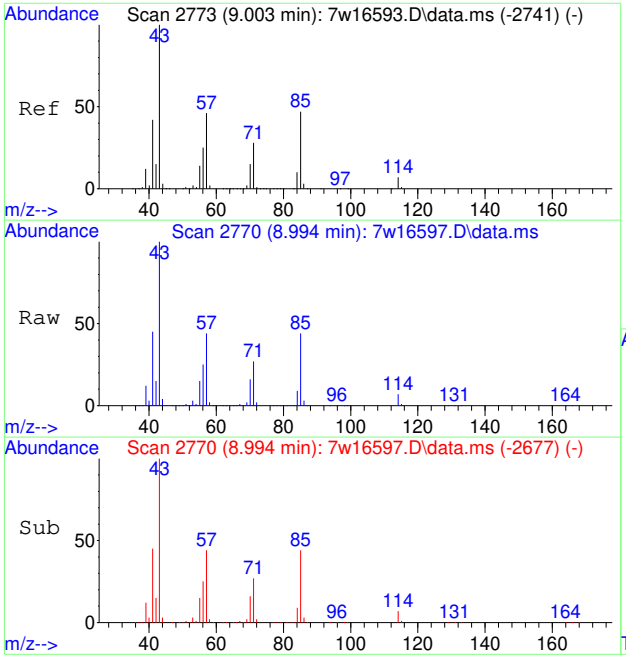


#74
1,2-DIBROMOETHANE
Concen: 11.75 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:107 Resp: 263017

Ion	Ratio	Lower	Upper
107	100		
109	94.1	66.1	122.8
188	3.5	2.5	4.6

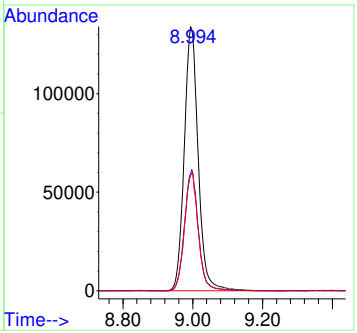


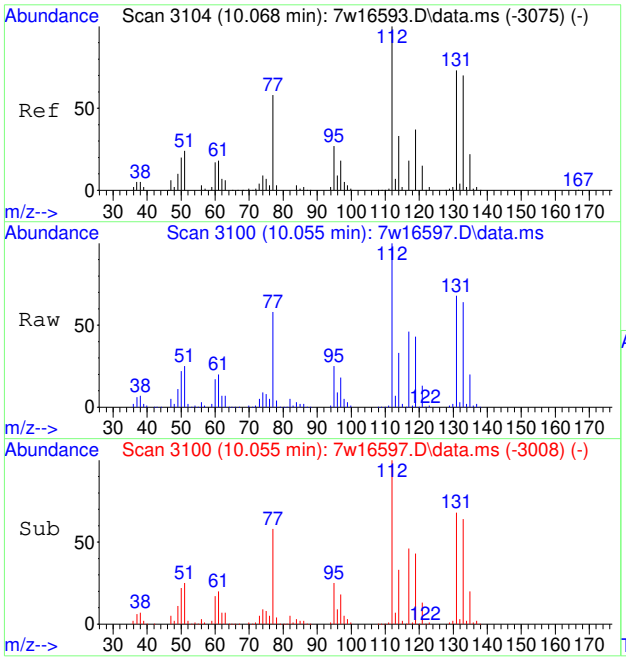


#75
OCTANE
Concen: 11.38 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 371823

Ion	Ratio	Lower	Upper
43	100		
85	45.2	31.8	59.0
57	44.5	31.4	58.2

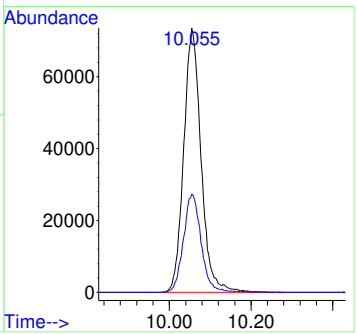


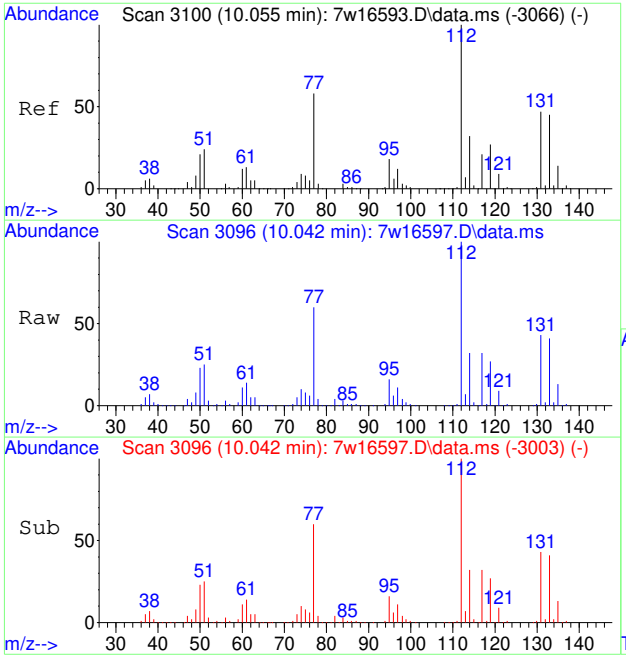


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 12.09 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:131 Resp: 217186

Ion	Ratio	Lower	Upper
131	100		
95	38.0	26.5	49.1

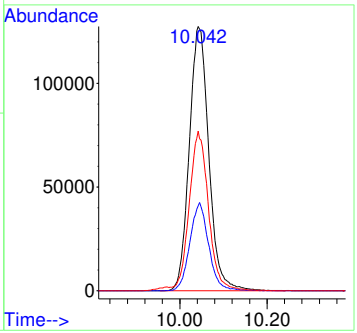


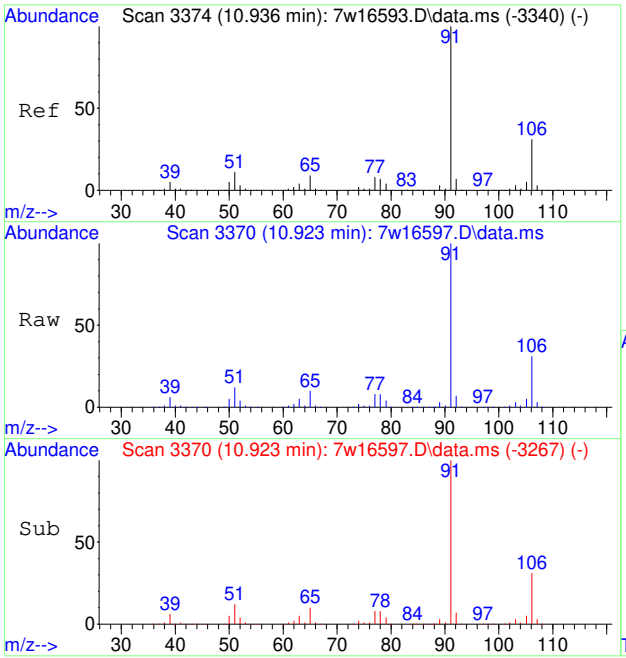


#78
CHLOROBENZENE
Concen: 11.61 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:112 Resp: 397219

Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.7
77	60.4	42.1	78.1

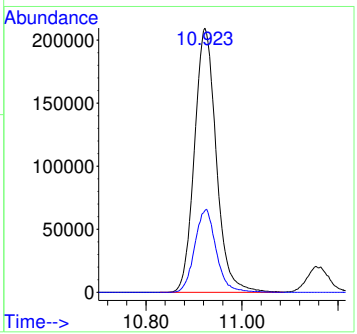


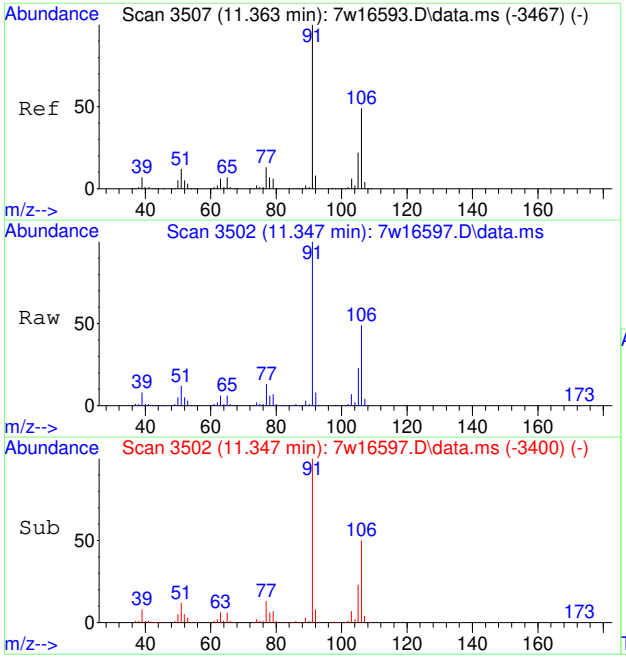


#79
ETHYLBENZENE
Concen: 11.76 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 659125

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.1	61.1

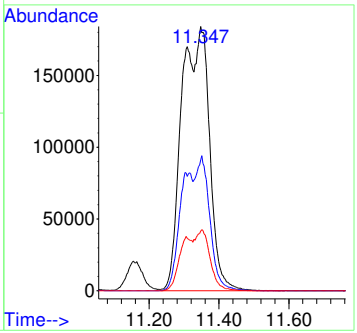


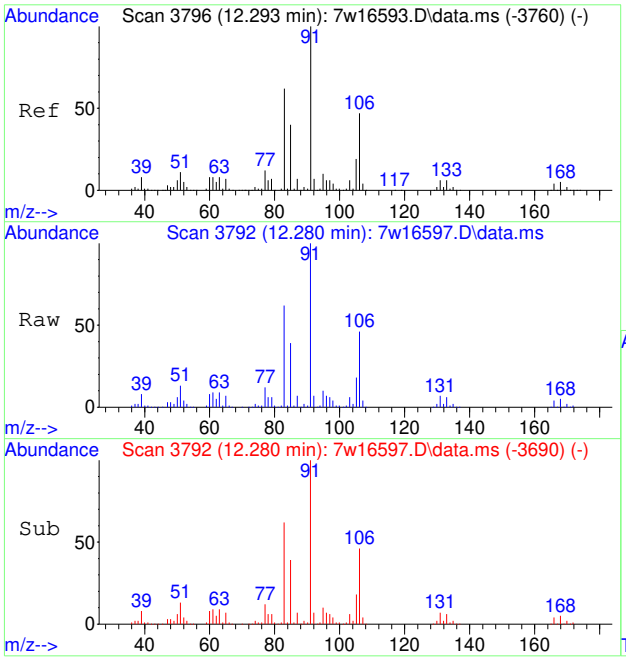


#80
M,P-XYLENE
Concen: 22.50 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 1021629

Ion	Ratio	Lower	Upper
91	100		
106	26.0	0.0	56.1
105	13.3	0.0	42.1

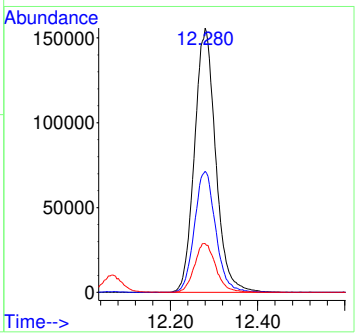


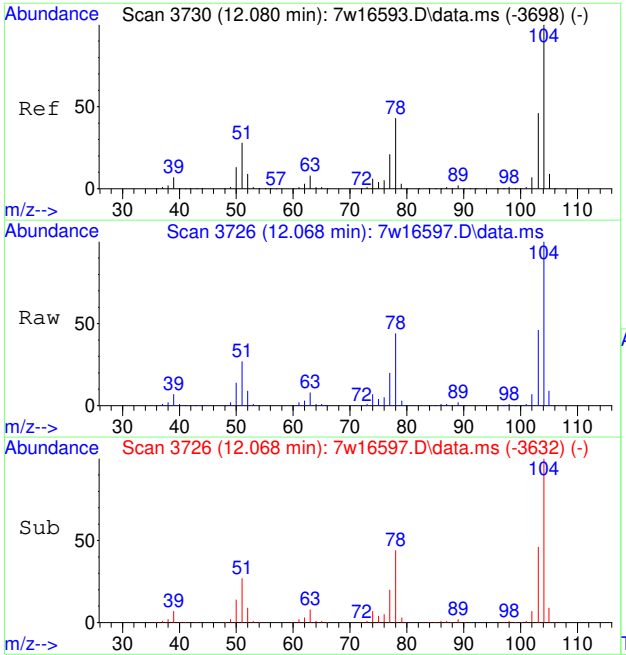


#81
O-XYLENE
Concen: 11.89 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 524115

Ion	Ratio	Lower	Upper
91	100		
106	45.8	31.8	59.0
105	18.5	13.0	24.2

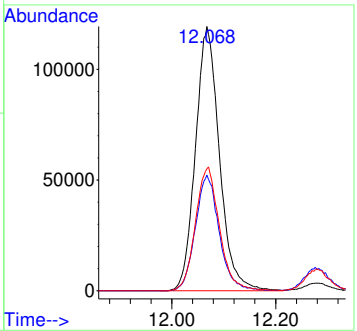


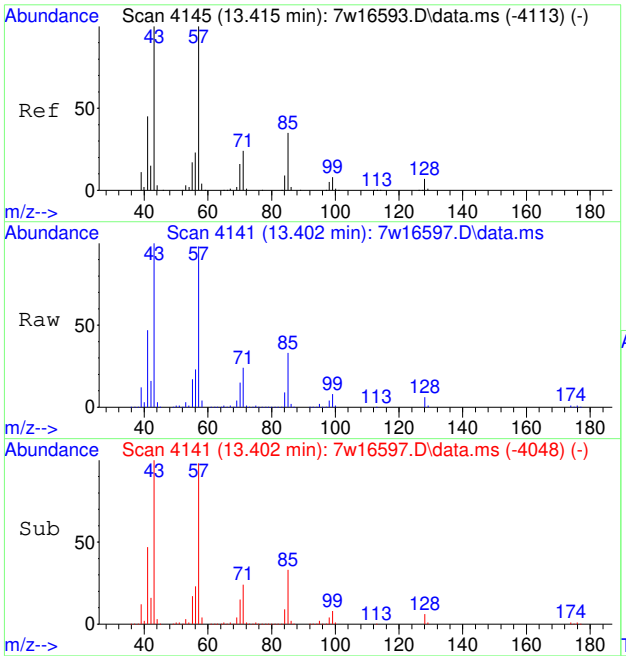


#82
STYRENE
Concen: 11.59 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:104 Resp: 383070

Ion	Ratio	Lower	Upper
104	100		
78	43.8	30.6	56.8
103	47.0	32.8	61.0

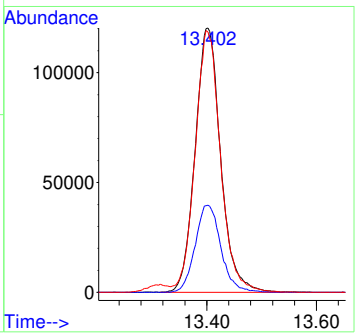


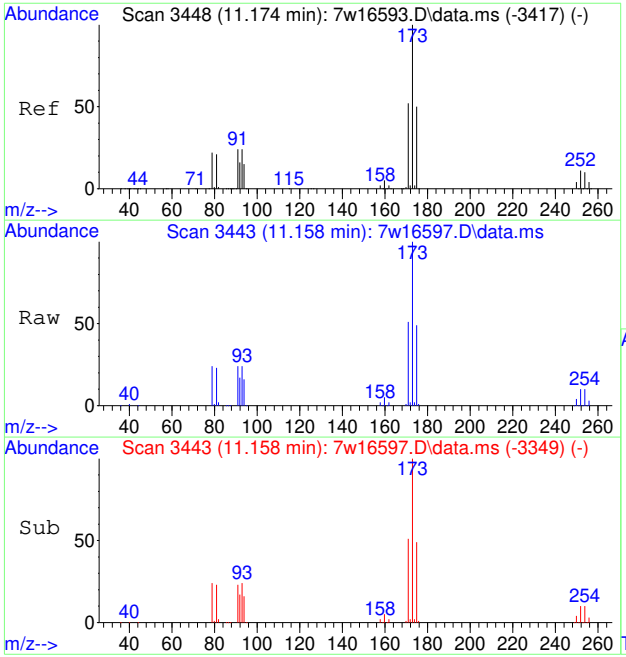


#83
NONANE
Concen: 11.35 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 389550

Ion	Ratio	Lower	Upper
43	100		
85	33.3	23.4	43.4
57	98.5	69.2	128.6

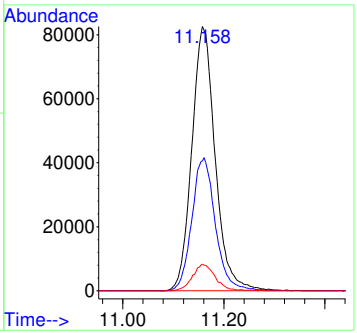


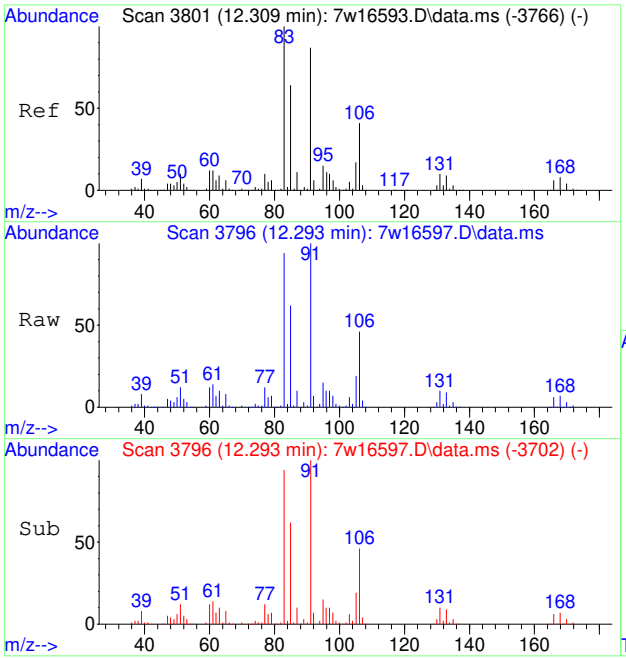


#84
BROMOFORM
Concen: 12.55 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:173 Resp: 265221

Ion	Ratio	Lower	Upper
173	100		
175	50.7	35.1	65.1
254	9.9	6.7	12.5

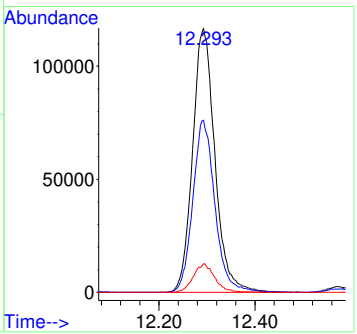


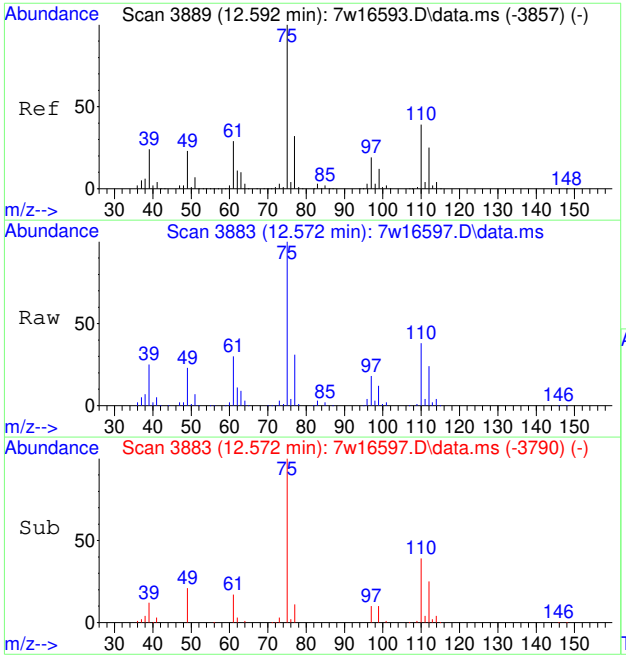


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 11.92 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 376337

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.5	7.3	13.5

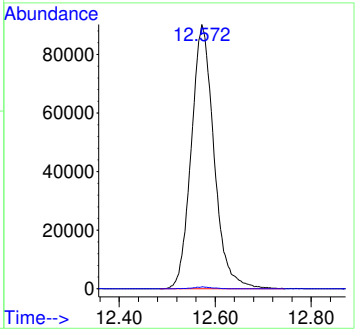


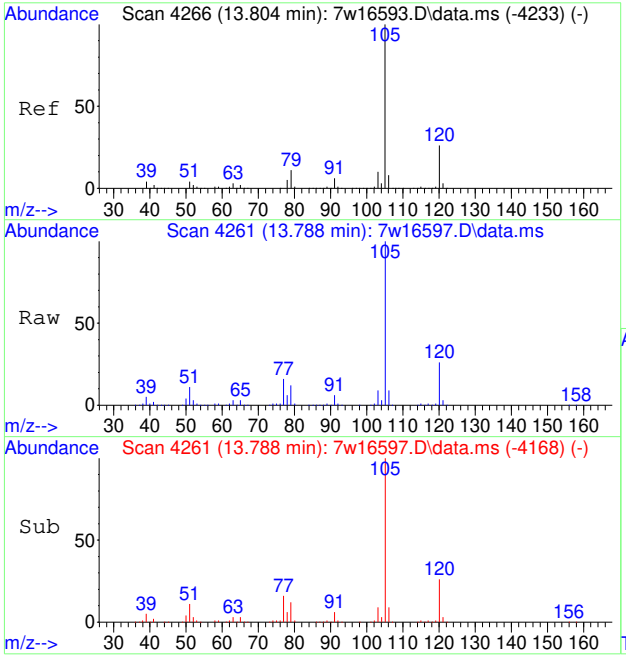


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.97 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 296228

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

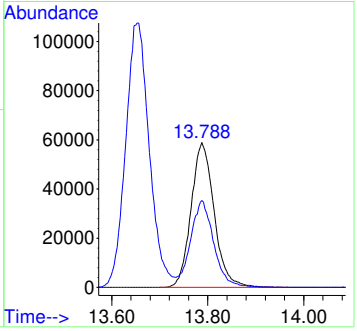


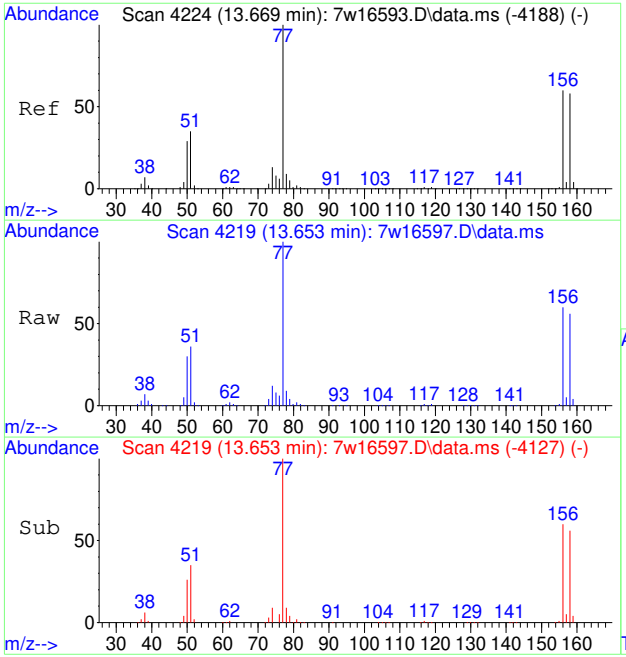


#88
ISOPROPYLBENZENE
Concen: 11.70 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 196063

Ion	Ratio	Lower	Upper
120	100		
77	60.5	42.5	78.9

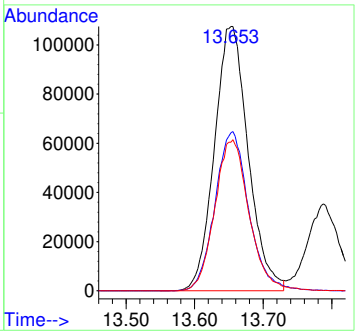


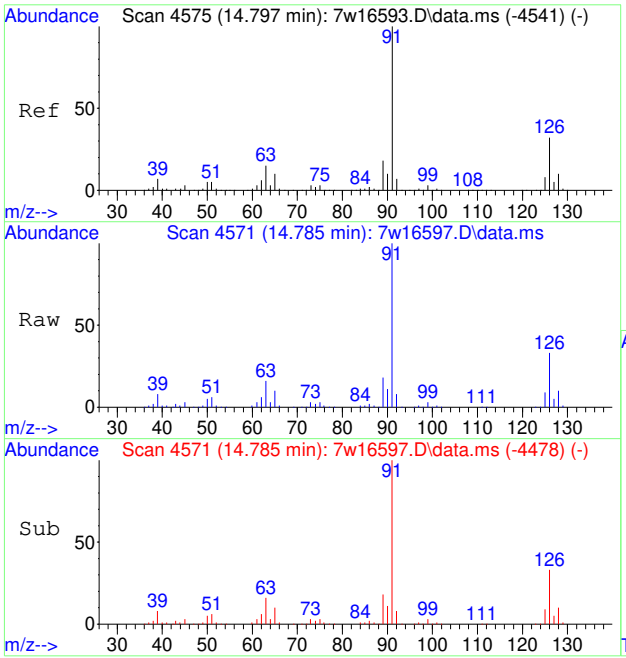


#89
BROMOBENZENE
Concen: 11.46 PPBV
RT: 13.653 min Scan# 4219
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 77 Resp: 368714

Ion	Ratio	Lower	Upper
77	100		
156	60.3	42.4	78.8
158	57.9	40.9	76.0

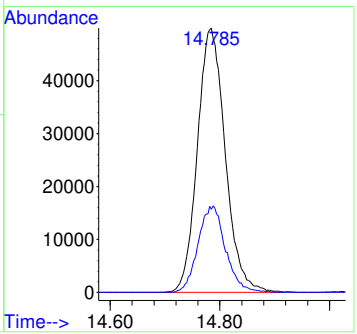


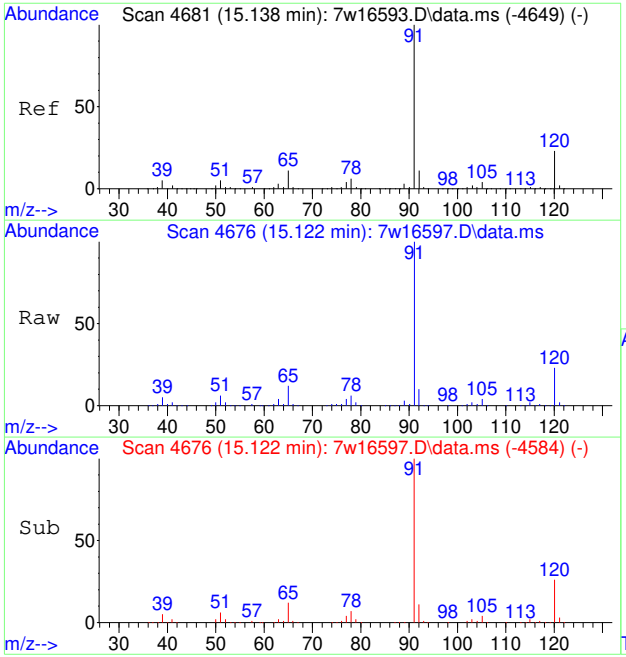


#90
2-CHLOROTOLUENE
Concen: 11.26 PPBV
RT: 14.785 min Scan# 4571
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:126 Resp: 175998

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

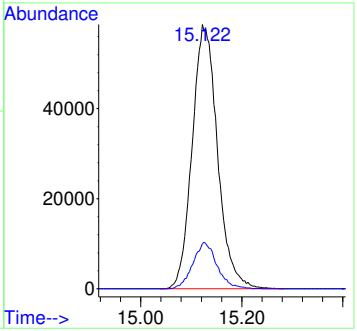


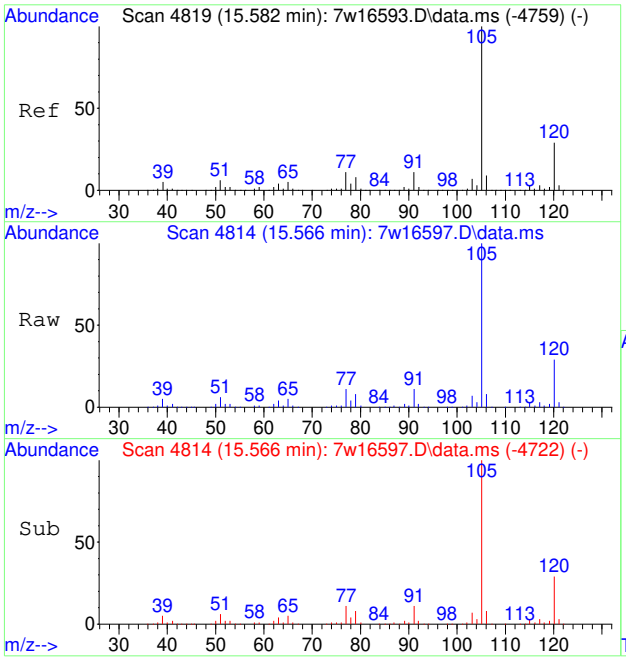


#91
N-PROPYLBENZENE
Concen: 11.48 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 204116

Ion	Ratio	Lower	Upper
120	100		
105	16.8	11.5	21.5

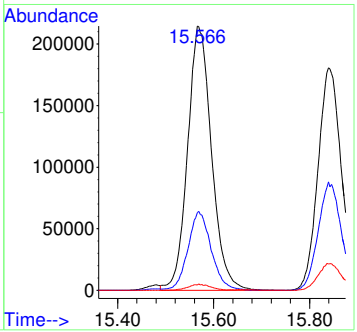


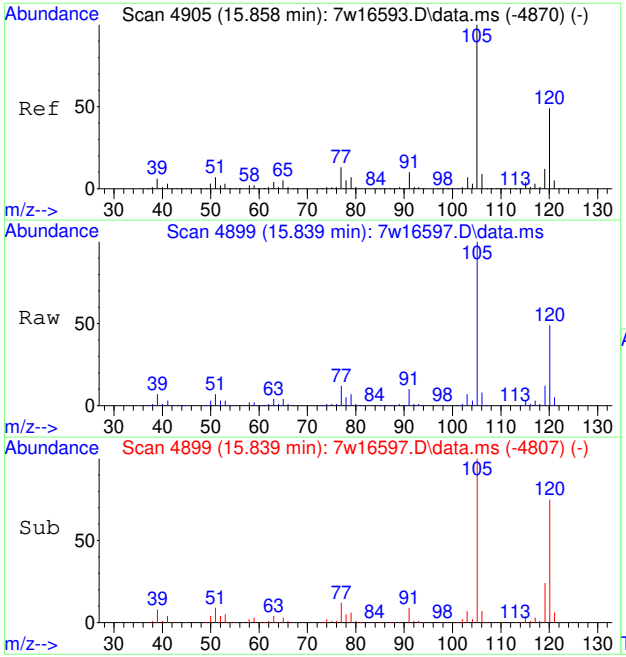


#92
4-ETHYLTOLUENE
Concen: 11.28 PPBV
RT: 15.566 min Scan# 4814
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 742534

Ion	Ratio	Lower	Upper
105	100		
120	29.5	20.7	38.5
119	2.3	1.6	3.0

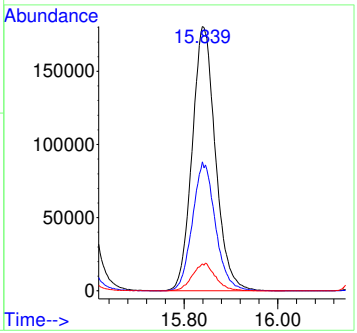


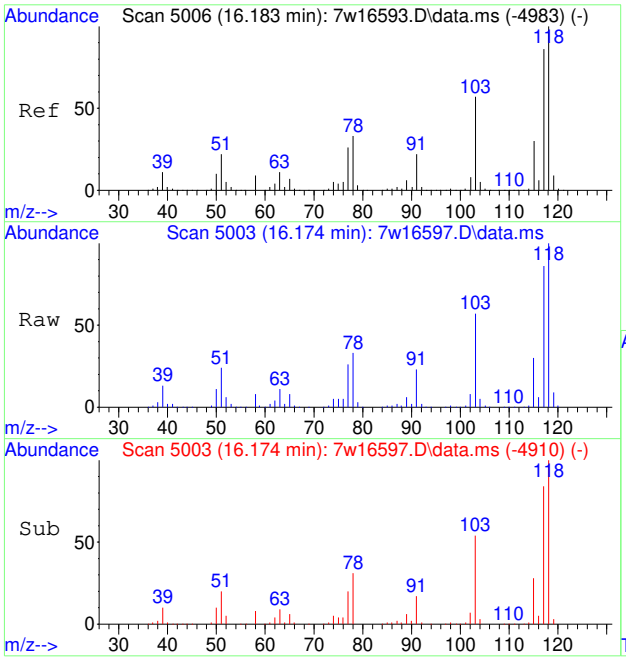


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.36 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 622476

Ion	Ratio	Lower	Upper
105	100		
120	48.2	34.0	63.2
91	10.4	7.3	13.7

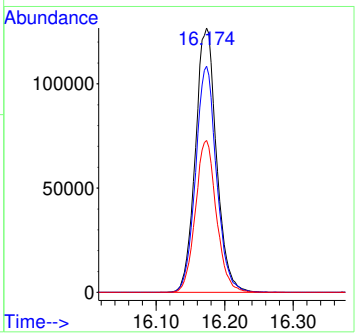


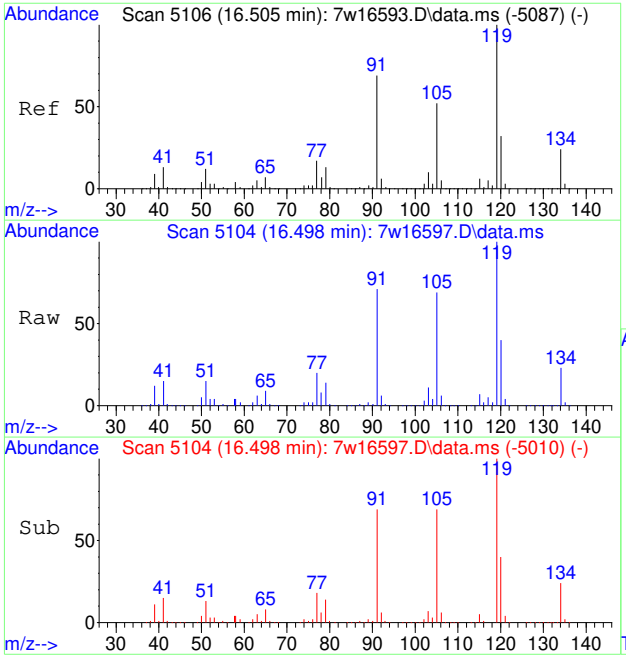


#94
ALPHA-METHYLSTYRENE
Concen: 10.00 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:118 Resp: 271625

Ion	Ratio	Lower	Upper
118	100		
117	84.6	59.6	110.8
103	57.1	40.3	74.9

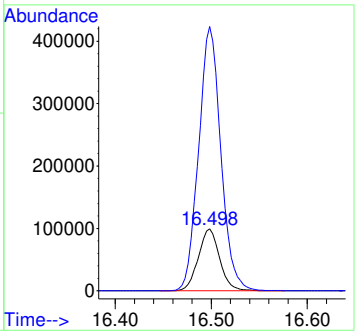


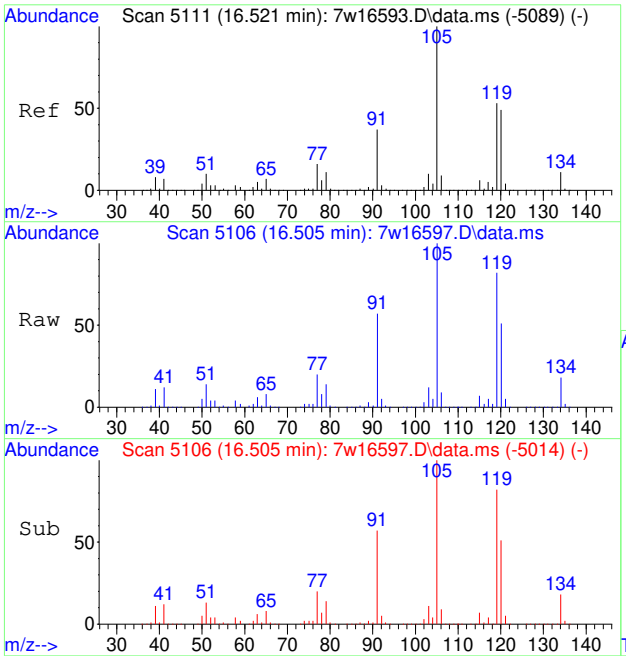


#95
TERT-BUTYLBENZENE
Concen: 11.43 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 152633

Ion	Ratio	Lower	Upper
134	100		
119	446.8	311.3	578.1

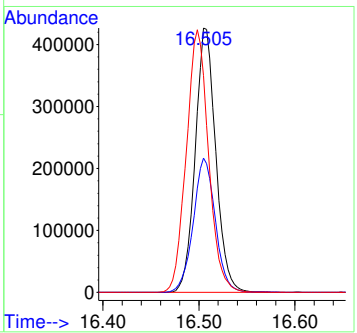


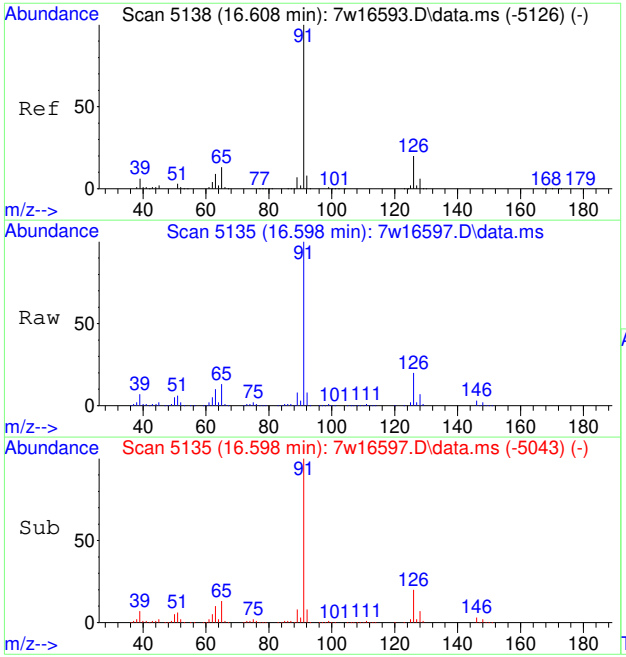


#96
1,2,4-TRIMETHYLBENZENE
Concen: 11.67 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 633879

Ion	Ratio	Lower	Upper
105	100		
120	54.8	37.9	70.5
119	107.6	74.3	137.9

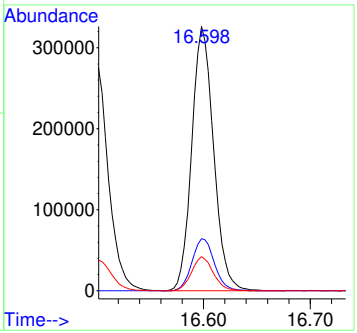


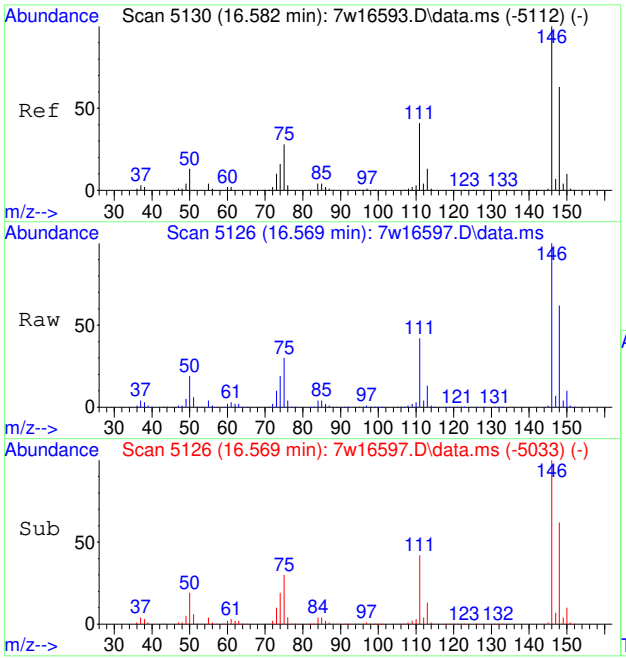


#97
BENZYL CHLORIDE
Concen: 10.58 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 464197

Ion	Ratio	Lower	Upper
91	100		
126	20.2	14.3	26.5
65	12.8	9.2	17.0

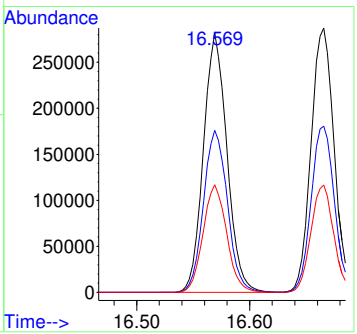


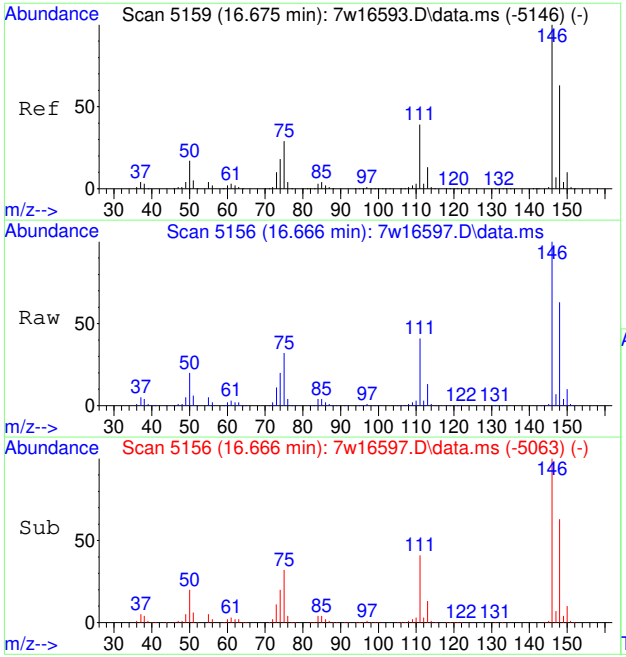


#98
M-DICHLOROBENZENE
Concen: 10.91 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 406824

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.6	82.8
111	41.7	29.3	54.3

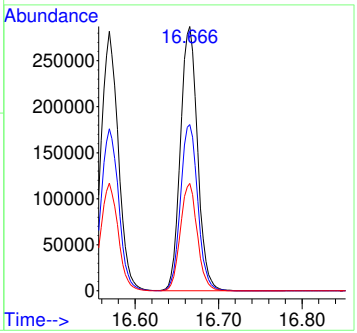


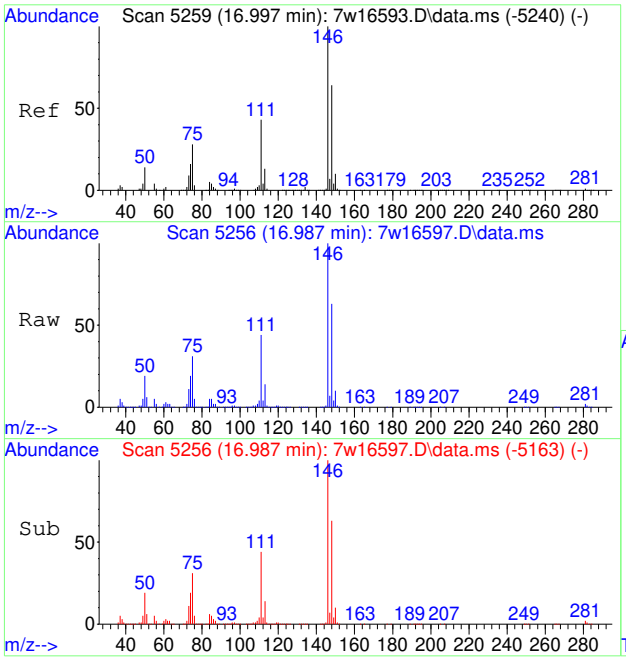


#99
P-DICHLOROBENZENE
Concen: 11.12 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 408776

Ion	Ratio	Lower	Upper
146	100		
148	63.5	44.2	82.2
111	40.2	28.0	52.0

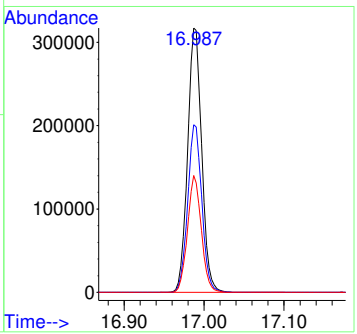


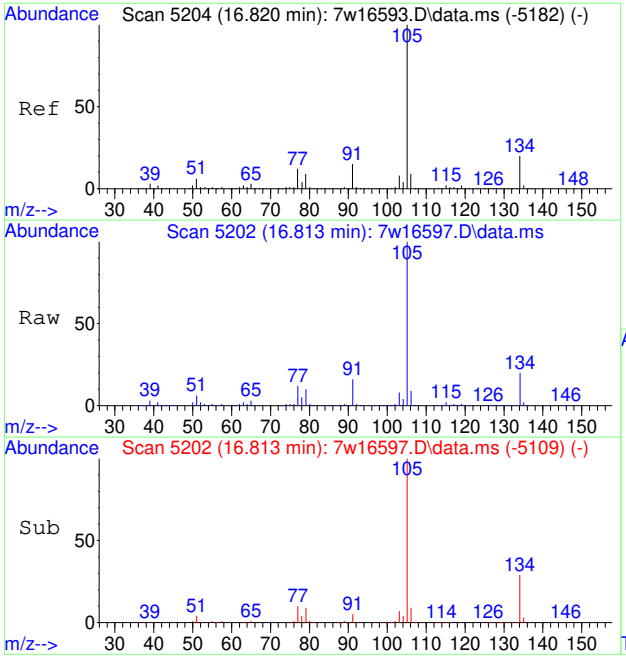


#100
O-DICHLOROBENZENE
Concen: 11.22 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 388114

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	43.4	30.4	56.4

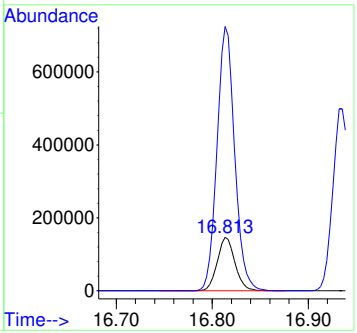


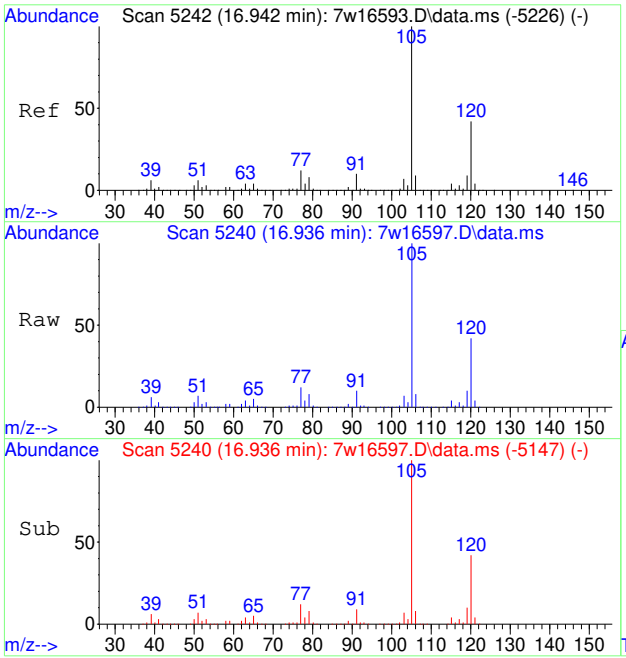


#101
SEC-BUTYLBENZENE
Concen: 11.81 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 187876

Ion	Ratio	Lower	Upper
134	100		
105	493.2	344.8	640.3

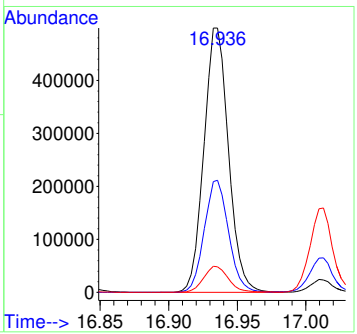


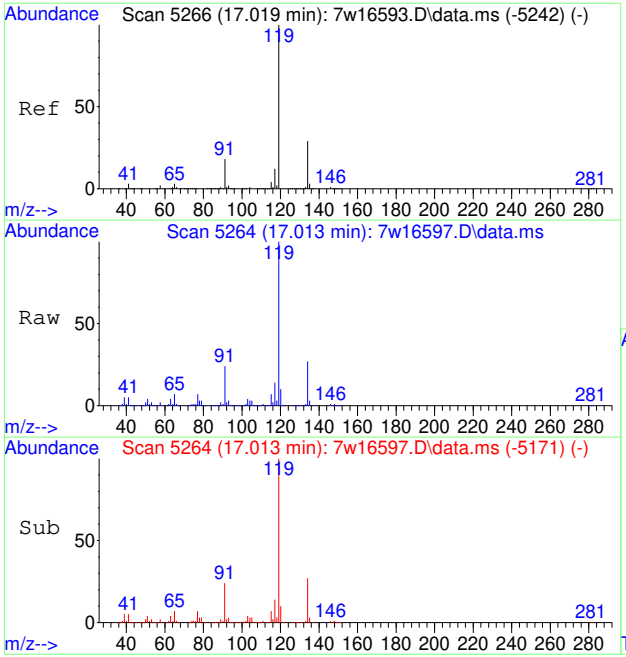


#102
1,2,3-TRIMETHYLBENZENE
Concen: 11.41 PPBV
RT: 16.936 min Scan# 5240
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 621174

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	10.0	7.0	13.0

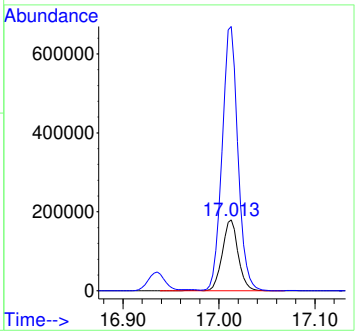


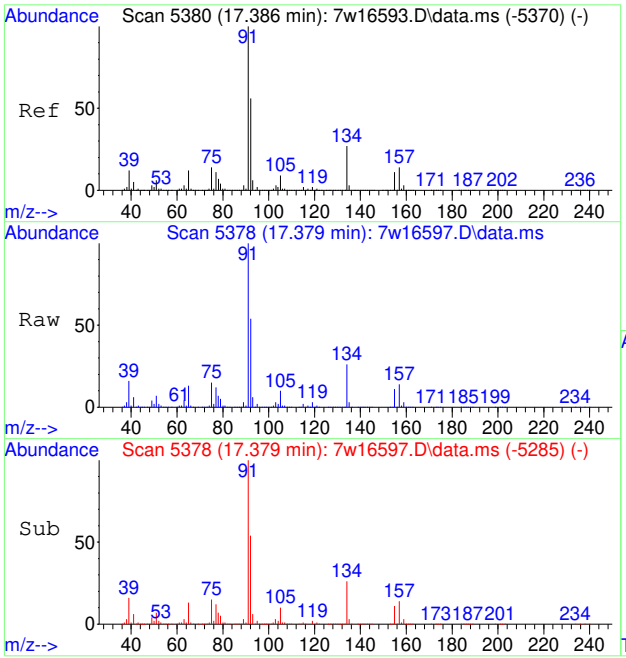


#103
P-ISOPROPYLTOLUENE
Concen: 11.68 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 206409

Ion	Ratio	Lower	Upper
134	100		
119	372.6	261.4	485.4

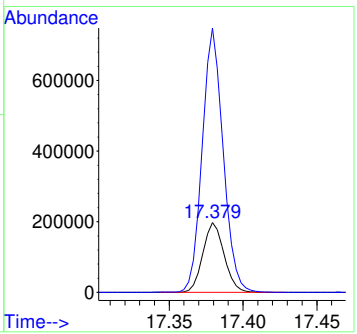


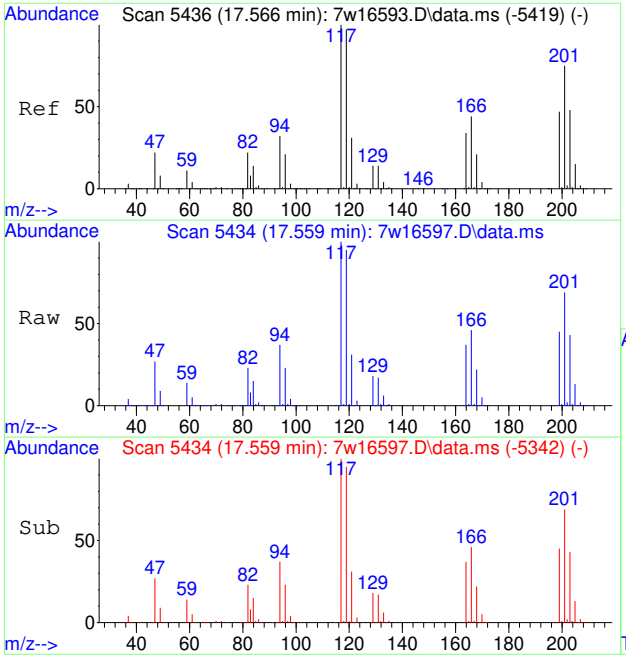


#104
N-BUTYLBENZENE
Concen: 11.69 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 197029

Ion	Ratio	Lower	Upper
134	100		
91	373.5	261.0	484.8

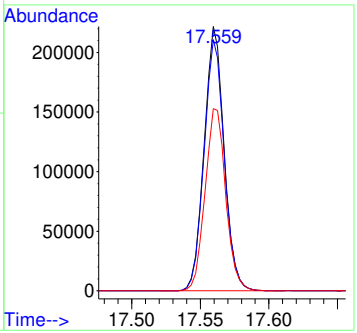


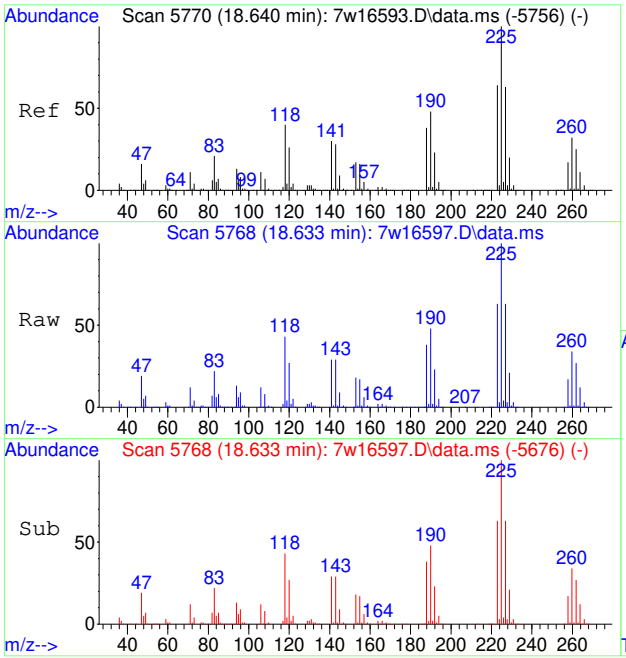


#105
HEXACHLOROETHANE
Concen: 10.80 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 224249

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	71.3	49.8	92.6

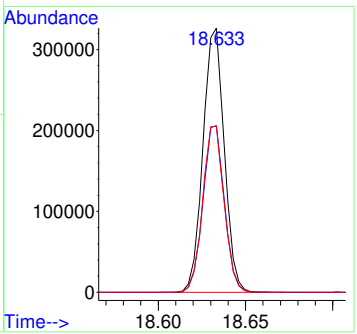


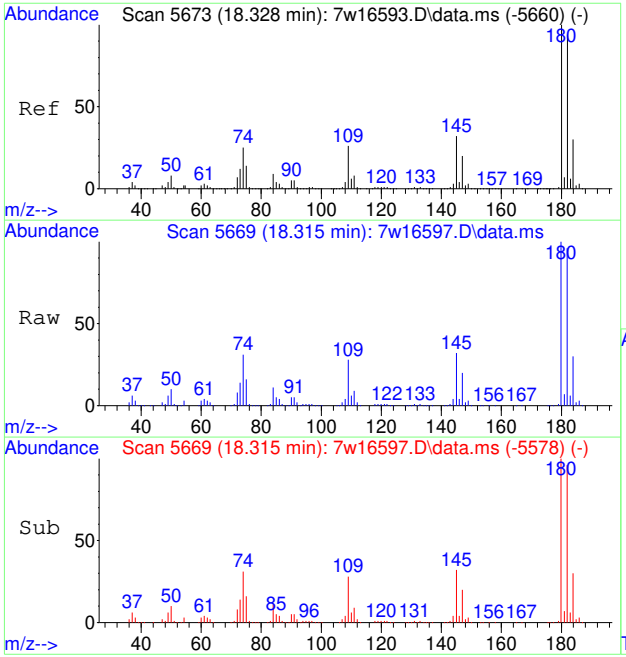


#106
HEXACHLOROBUTADIENE
Concen: 11.26 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:225 Resp: 277087

Ion	Ratio	Lower	Upper
225	100		
227	63.4	44.6	82.8
223	63.5	44.6	82.8

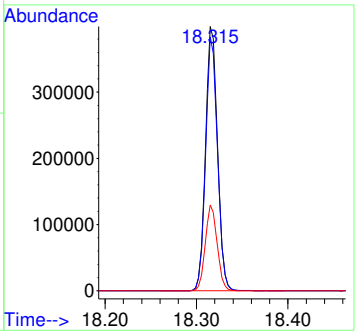


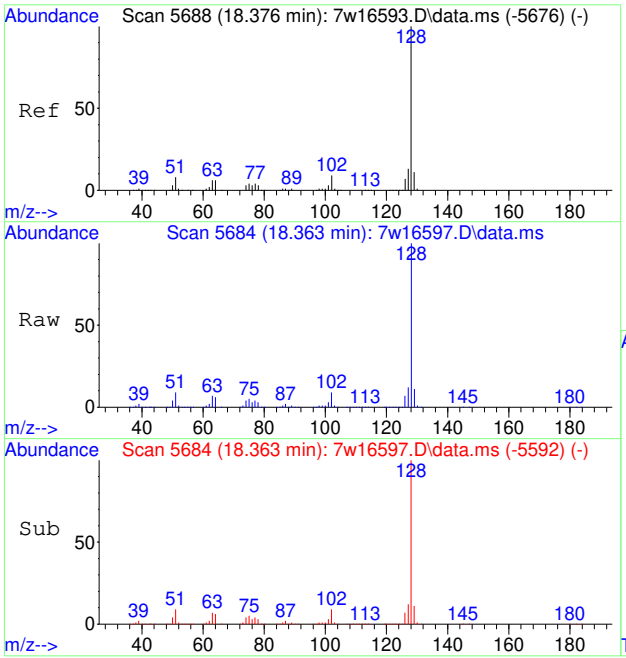


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.29 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:180 Resp: 362853

Ion	Ratio	Lower	Upper
180	100		
182	95.0	66.6	123.6
145	32.1	22.5	41.9

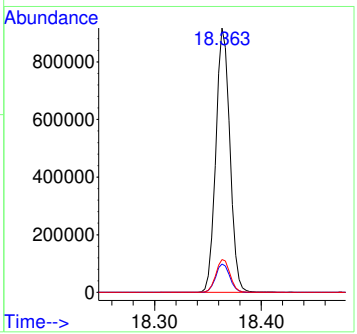


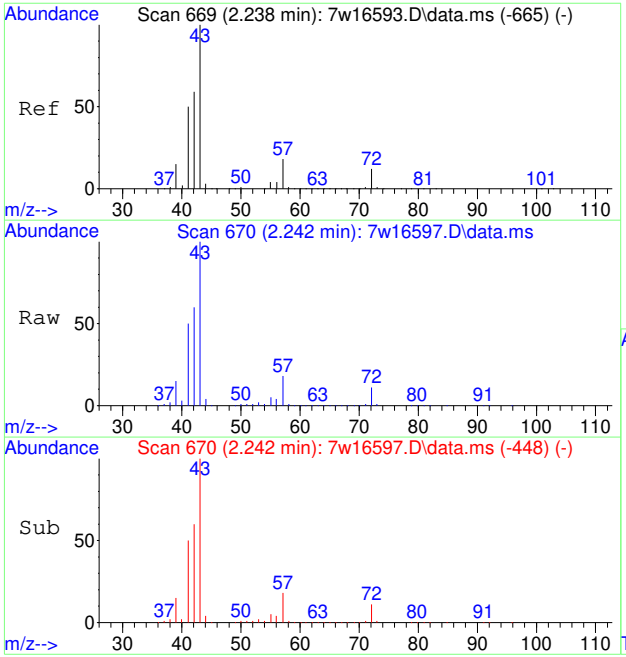


#108
NAPHTHALENE
Concen: 12.65 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:128 Resp: 837609

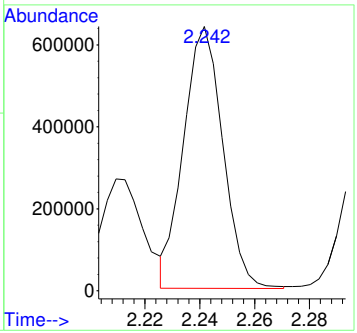
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.6	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 10.37 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:TIC Resp: 634578



Manual Integration Approval Summary

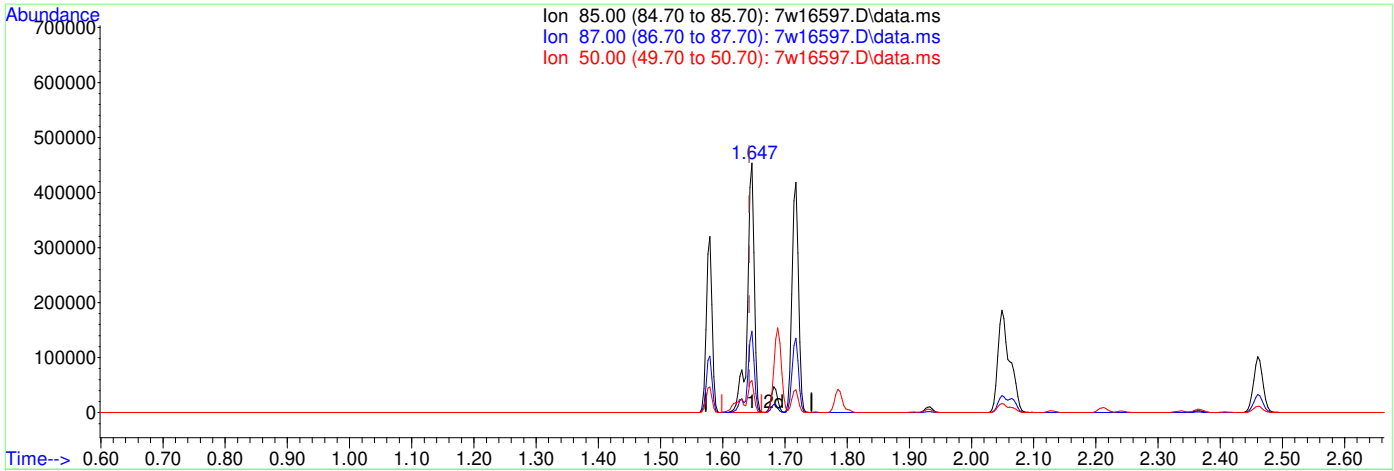
Sample Number: V7W577-ICV577
Lab FileID: 7W16597.D
Injection Time: 08/07/25 18:07
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

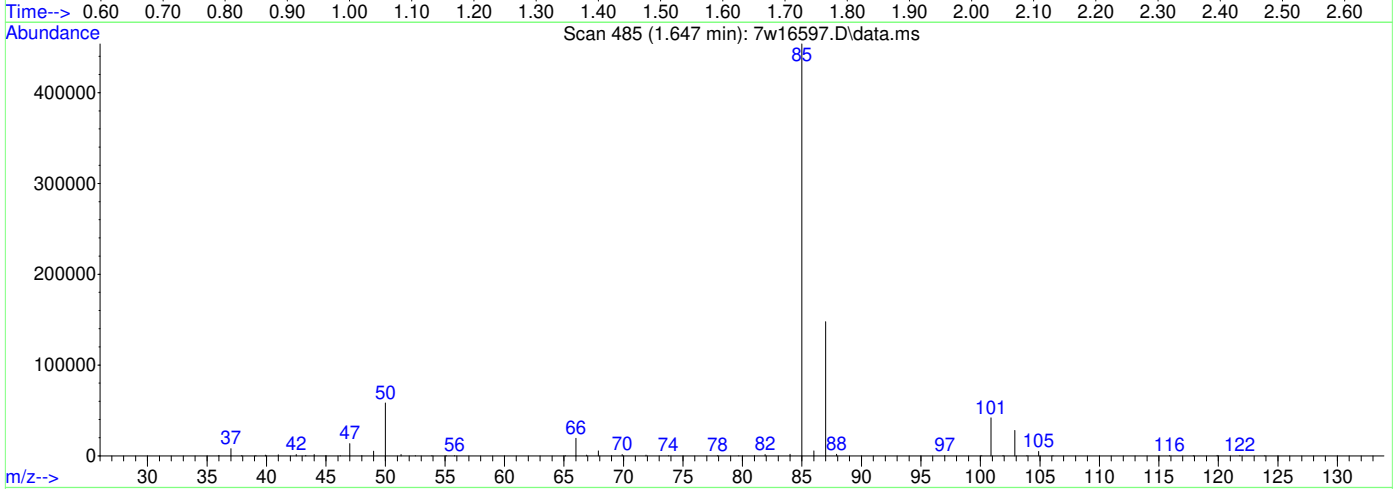
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.49PPBV

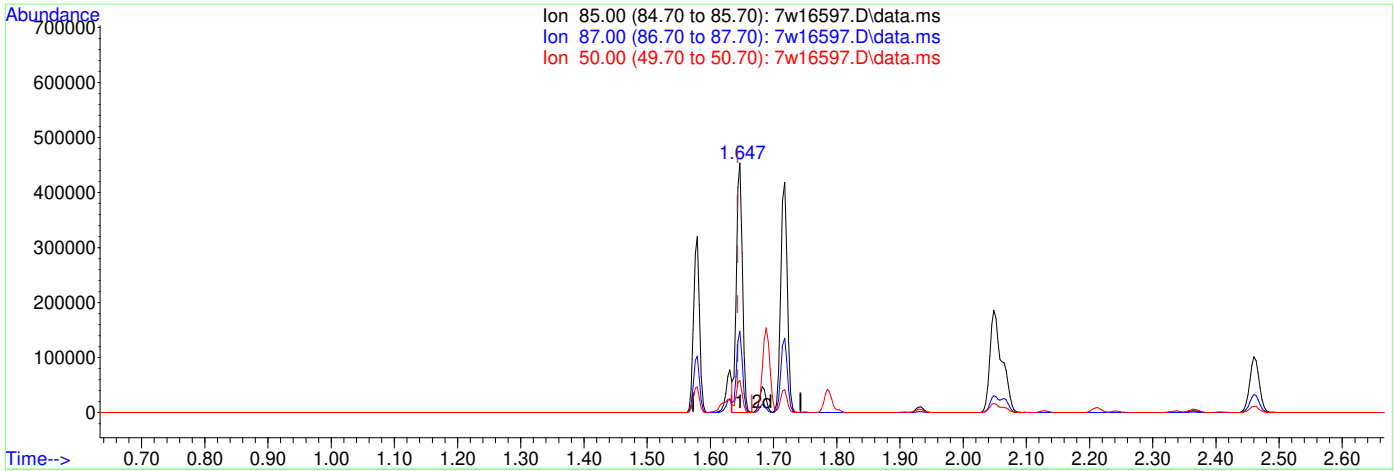
response 350117

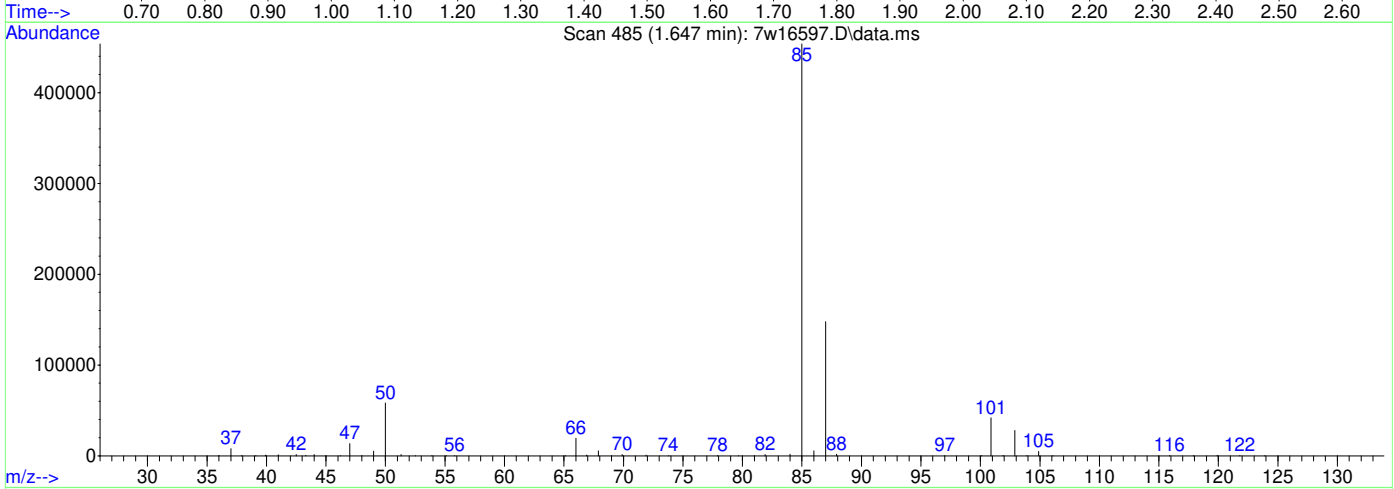
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.48
50.00	19.30	18.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 11.58PPBV m

response 300519

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.84
50.00	19.30	21.93
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	116358	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	571811	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	520899	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	116358	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	419664	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	163088	11.5539	PPBV		99
3) FREON 152A	1.608	65	78406	10.7669	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	33446	10.5791	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	175760	11.5540	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.647	85	290630m	10.4293	PPBV		
7) PROPYLENE	1.631	41	95474	10.1297	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.685	65	251622	10.1488	PPBV		98
9) FREON 114	1.717	85	287996	10.0264	PPBV		99
10) CHLOROMETHANE	1.688	52	32928	8.2395	PPBV		99
11) VINYL CHLORIDE	1.750	62	117529m	8.3053	PPBV		
12) 1,3-BUTADIENE	1.788	54	94511	8.4555	PPBV		99
13) N-BUTANE	1.801	43	162747	8.6049	PPBV	#	99
14) BROMOMETHANE	1.862	94	104528	9.5260	PPBV		99
15) CHLOROETHANE	1.910	64	64945	8.4552	PPBV		98
16) DICHLOROFLUOROMETHANE	1.933	67	245173	9.2174	PPBV		99
17) ACETONITRILE	1.997	41	92860	7.0259	PPBV		100
18) ACROLEIN	2.039	56	51884	8.2638	PPBV		96
19) FREON 123	2.052	83	271349	10.1251	PPBV		99
20) FREON 123A	2.068	117	167245	10.5339	PPBV		92
21) TRICHLOROFLUOROMETHANE	2.132	101	315449	10.4227	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	235756	9.1923	PPBV		97
23) ACETONE	2.074	58	61465	8.7655	PPBV		95
24) PENTANE	2.245	42	119731	8.6199	PPBV		97
25) IODOMETHANE	2.306	142	302044	10.8471	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.331	96	113502	9.8382	PPBV		92
27) CARBON DISULFIDE	2.466	76	295672	9.0324	PPBV		99
28) ETHANOL	1.936	45	59610	8.7303	PPBV		99
29) BROMOETHENE	2.007	106	107454	9.7540	PPBV		99
30) ACRYLONITRILE	2.212	52	90680	9.1962	PPBV		99
31) METHYLENE CHLORIDE	2.370	84	100570	8.8927	PPBV		93
32) 3-CHLOROPROPENE	2.412	76	53228	8.6257	PPBV		93
33) FREON 113	2.463	151	192366	11.0698	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	109522	8.6284	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.341	59	225238	7.0292	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.794	73	341132	9.4479	PPBV		99
37) TETRAHYDROFURAN	3.470	72	54436	9.2961	PPBV		95
38) HEXANE	3.241	57	232201	9.5475	PPBV		98
39) VINYL ACETATE	2.830	86	33655	9.6975	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	237635	9.6844	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	63349	9.5459	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	132822	10.0880	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	63810	9.2540	PPBV		100
44) ETHYL ACETATE	3.251	61	46222	9.9155	PPBV		95
45) METHYL ACRYLATE	3.238	55	279714	9.5047	PPBV	#	100
46) CHLOROFORM	3.264	83	263663	10.3820	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	269103	9.8861	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.823	97	276035	10.3131	PPBV		98
49) CARBON TETRACHLORIDE	4.241	117	297702	10.7365	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	188951	9.5709	PPBV		98
51)	BENZENE	4.129	78	381313	9.7878	PPBV		98
53)	CYCLOHEXANE	4.335	84	171831	10.2715	PPBV		97
54)	2,3-DIMETHYLPENTANE	4.589	71	88073	10.5570	PPBV		96
55)	TRICHLOROETHENE	5.016	95	178344	10.0006	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	154813	9.8220	PPBV		98
57)	DIBROMOMETHANE	4.743	174	188737	12.4198	PPBV		83
58)	ETHYL ACRYLATE	4.900	55	346044	9.8087	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	296039	10.2746	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	724407	9.3827	PPBV		100
61)	1,4-DIOXANE	5.026	88	84481	10.0079	PPBV		99
62)	HEPTANE	5.421	43	242704	9.5206	PPBV		99
63)	METHYL METHACRYLATE	5.318	69	141707	9.8923	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.042	58	136844	8.9515	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	241996	10.0129	PPBV		96
66)	TOLUENE	7.132	91	473872	10.4370	PPBV		100
67)	1,3-DICHLOROPROPANE	7.190	76	243885	10.7144	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	209221	9.5814	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	138459	10.7019	PPBV		98
70)	2-HEXANONE	7.695	58	182994	8.5789	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	239373	10.0176	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	212743	12.8459	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.659	129	308693	11.7409	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	262168	11.2010	PPBV	#	100
75)	OCTANE	8.997	43	337681	9.8888	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	210593	11.2663	PPBV		98
78)	CHLOROBENZENE	10.048	112	390632	10.9774	PPBV		99
79)	ETHYLBENZENE	10.923	91	645828	11.0755	PPBV		100
80)	M,P-XYLENE	11.350	91	1003032	21.2340	PPBV		99
81)	O-XYLENE	12.280	91	508409	11.0892	PPBV		99
82)	STYRENE	12.067	104	391110	11.3791	PPBV		100
83)	NONANE	13.402	43	357527	10.0182	PPBV		99
84)	BROMOFORM	11.161	173	339077	15.4206	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	359106	10.9346	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	284105	11.0378	PPBV		100
88)	ISOPROPYLBENZENE	13.784	120	187852	10.7786	PPBV		100
89)	BROMOBENZENE	13.649	77	350259	10.4642	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	174412	10.7299	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	200624	10.8459	PPBV		100
92)	4-ETHYLTOLUENE	15.572	105	742643	10.8486	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	627675	11.0172	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.177	118	303322	10.7352	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	142496	10.2586	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	636713	11.2732	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	447528	9.8079	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	414699	10.6869	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	418016	10.9323	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	390320	10.8435	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	174245	10.5345	PPBV		89
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	612606	10.8197	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	192380	10.4645	PPBV		89
104)	N-BUTYLBENZENE	17.379	134	188579	10.7594	PPBV		93
105)	HEXACHLOROETHANE	17.556	117	249595	11.5593	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.623	225	486999	19.0236	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	498080	16.2228	PPBV		97
108)	NAPHTHALENE	18.360	128	949889	13.7917	PPBV		99
110)	TVHC as equiv Pentane	2.245	TIC	588522	8.9611	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

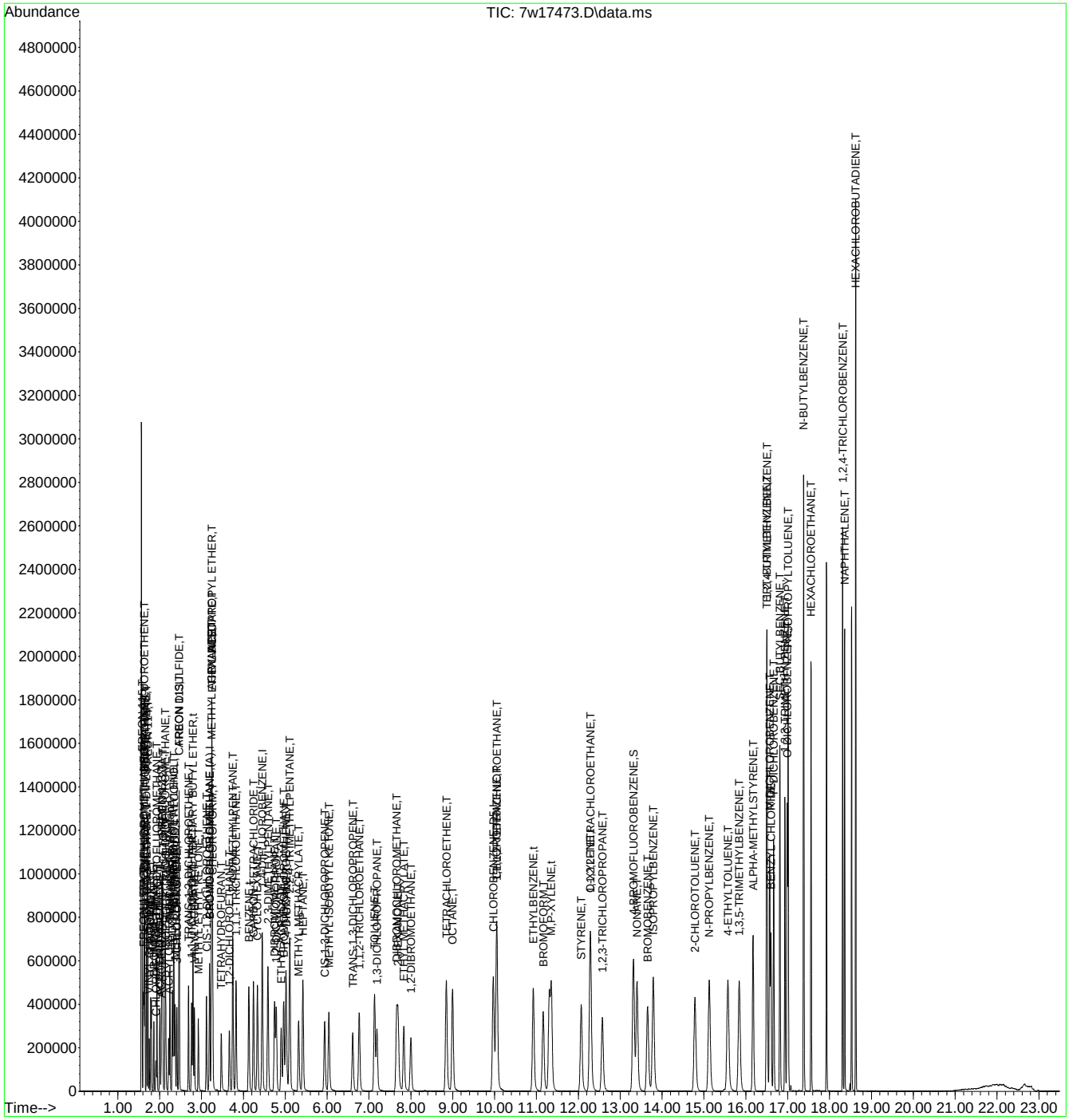
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

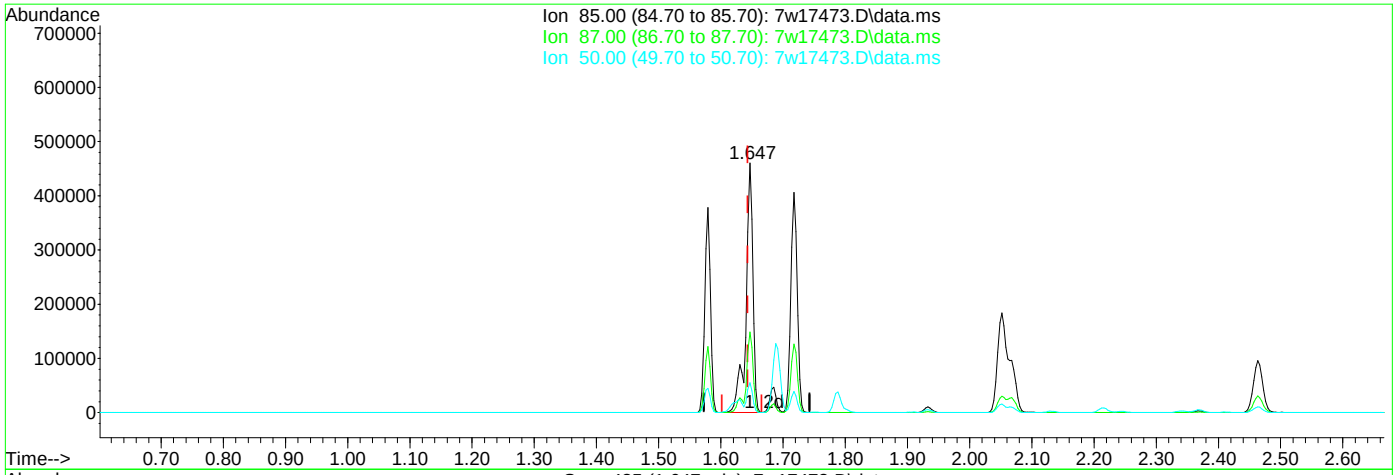
Sample Number: V7W613-CC577 **Method:** TO-15
Lab FileID: 7W17473.D **Analyst approved:** 09/29/25 13:49 Kristel Valladolid
Injection Time: 09/26/25 11:04 **Supervisor approved:** 09/29/25 15:16 Kanya Veerawat

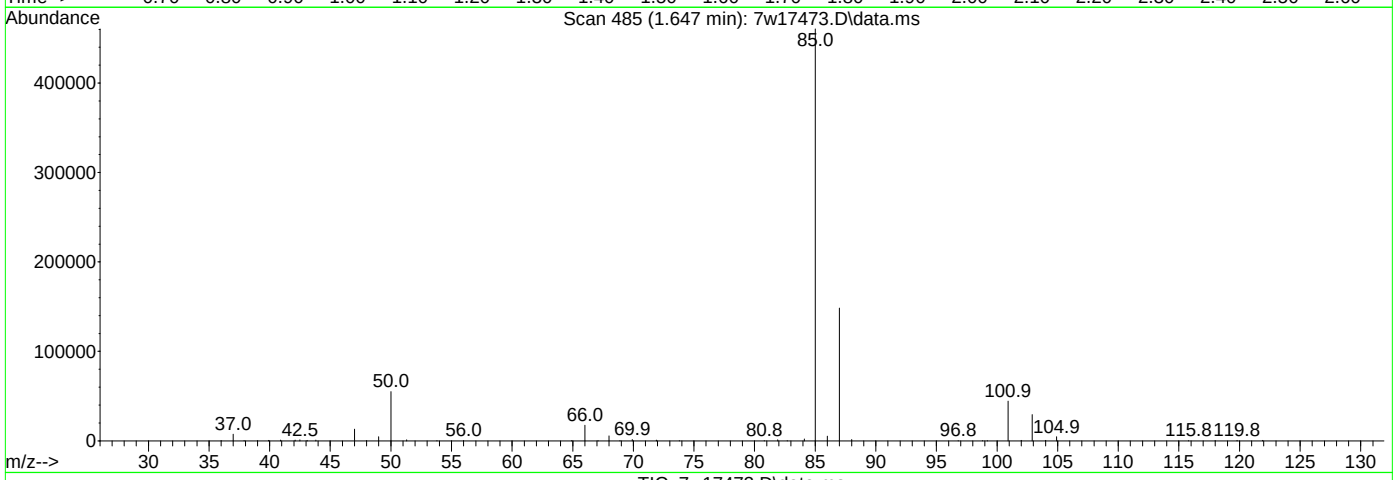
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

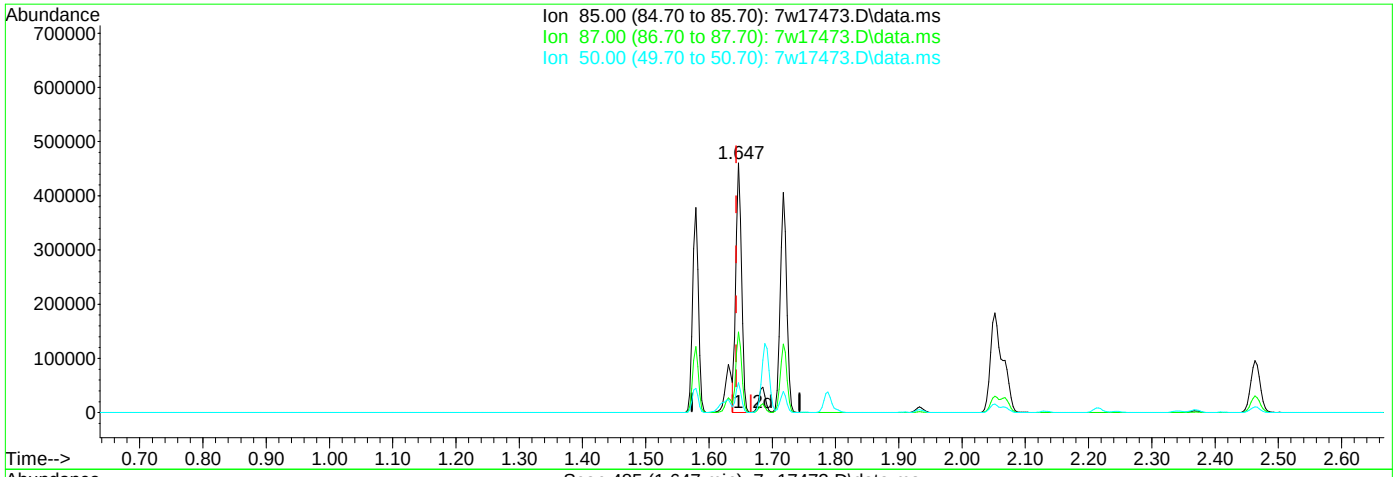
response 355281

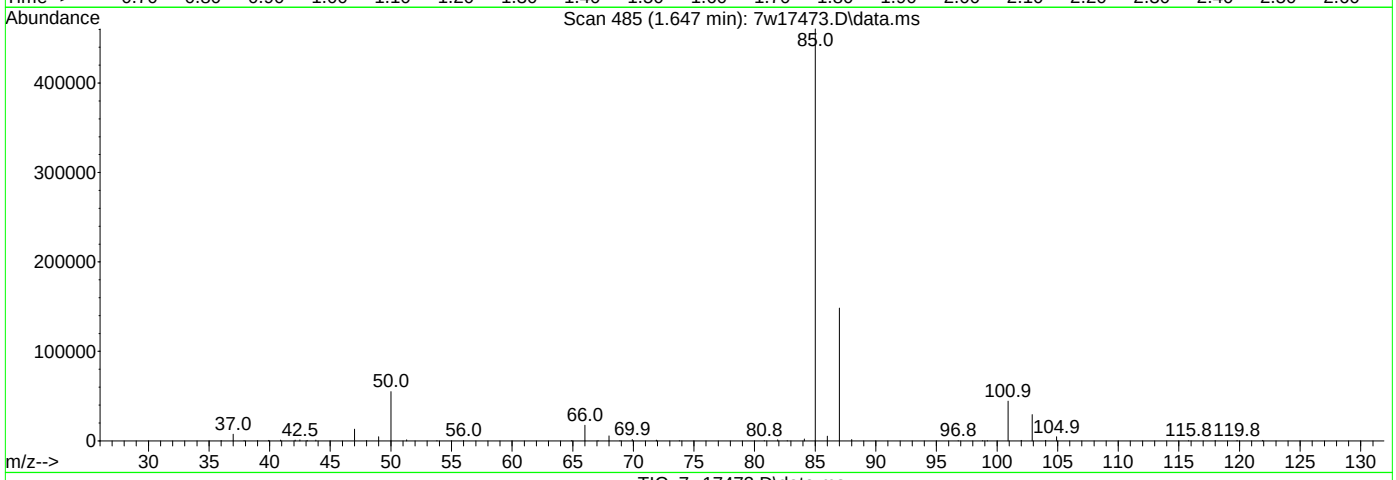
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.57
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.43PPBV m

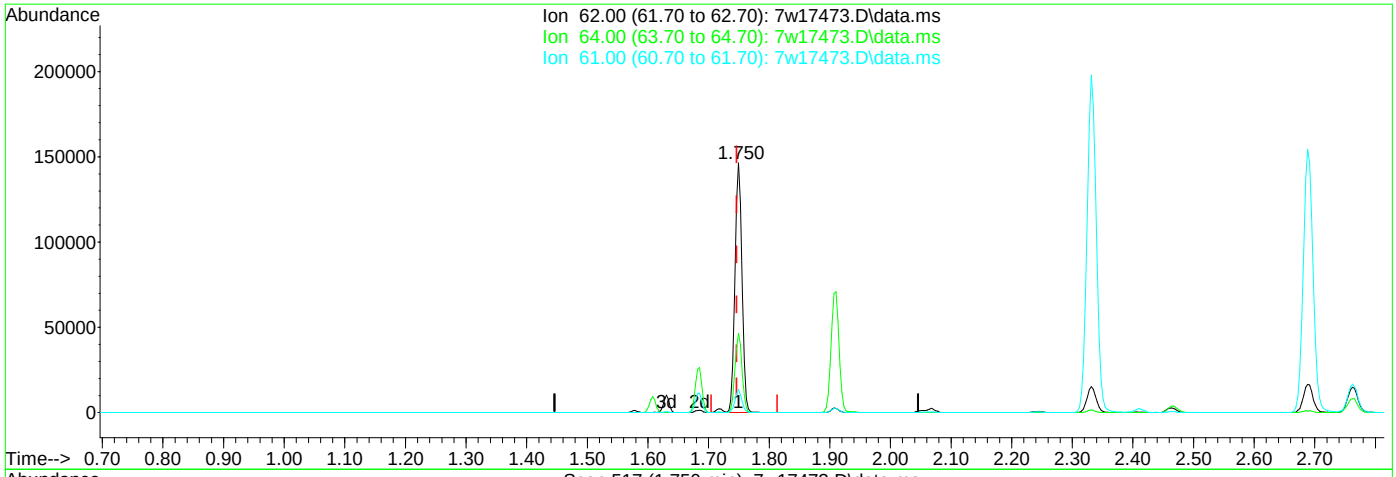
response 290630

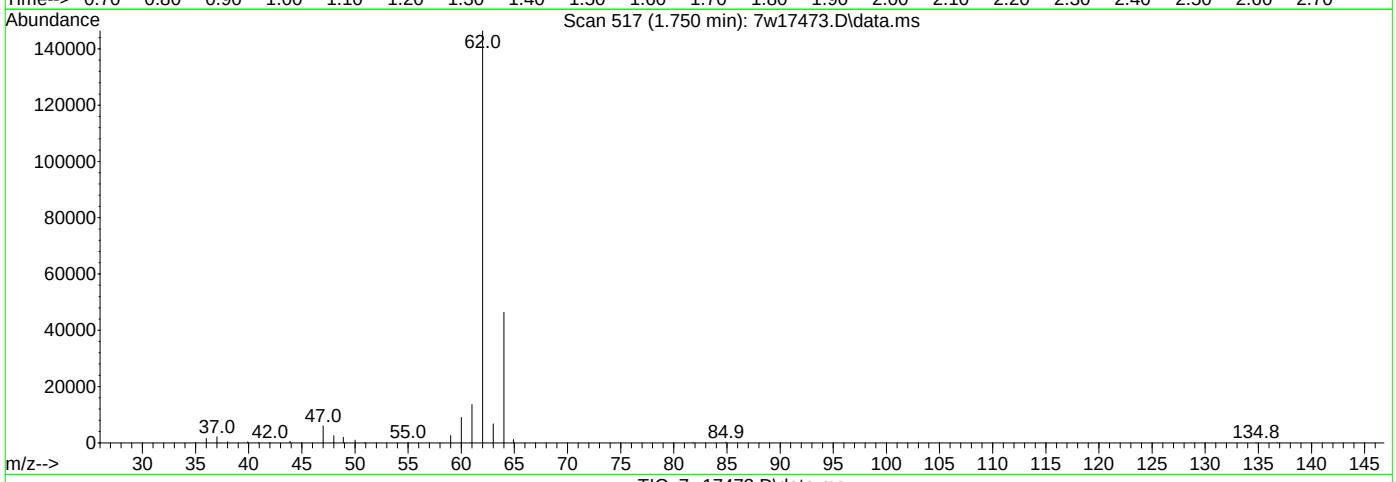
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.81
50.00	19.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.43PPBV

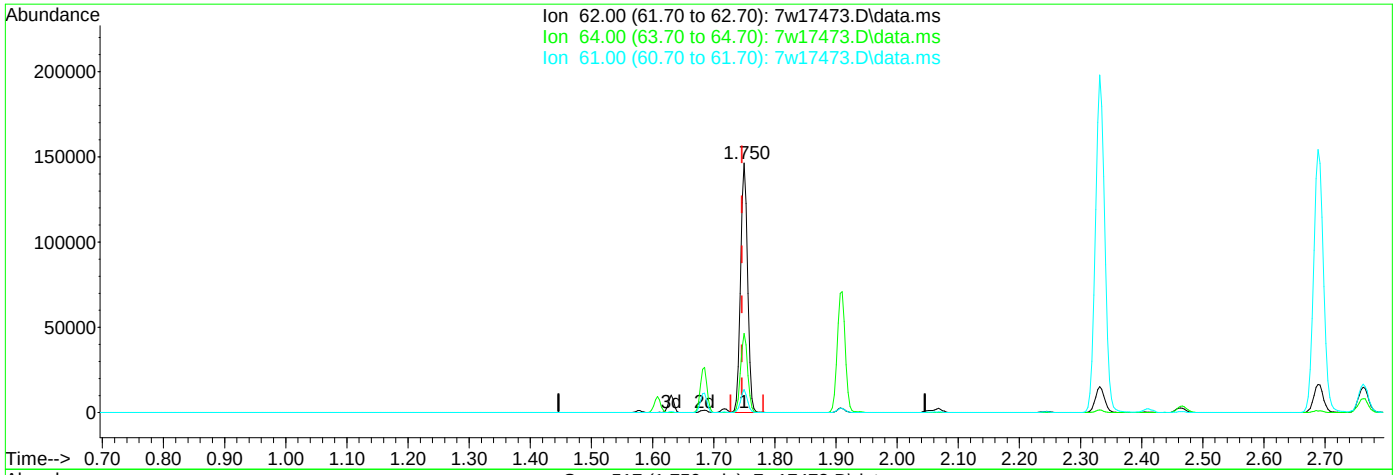
response 119282

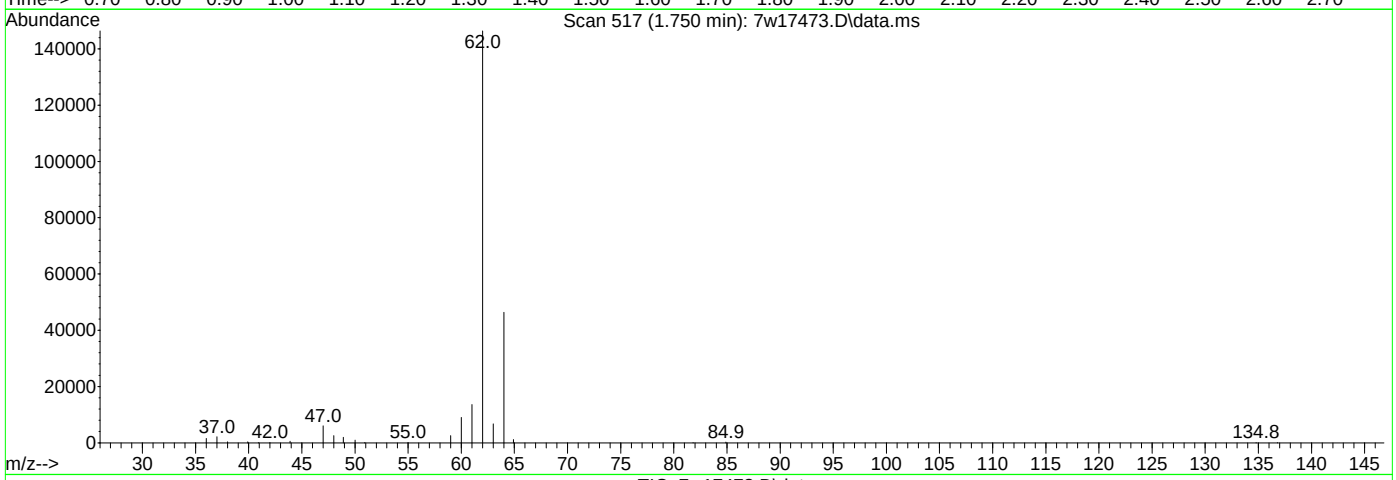
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.24
61.00	8.10	8.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.31PPBV m

response 117529

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.70
61.00	8.10	8.97
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	133953	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659891	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	616286	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133953	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	503374	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	177470	10.9213	PPBV		100
3) FREON 152A	1.605	65	90758	10.8260	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	39420	10.8310	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.627	116	194541	11.1088	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	337777m	10.5290	PPBV		
7) PROPYLENE	1.627	41	108538	10.0032	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	299323	10.4870	PPBV		99
9) FREON 114	1.714	85	325416	9.8410	PPBV		98
10) CHLOROMETHANE	1.688	52	38366	8.3392	PPBV		97
11) VINYL CHLORIDE	1.746	62	139139m	8.5409	PPBV		
12) 1,3-BUTADIENE	1.785	54	109057	8.4753	PPBV		98
13) N-BUTANE	1.801	43	189643	8.7099	PPBV		100
14) BROMOMETHANE	1.859	94	118438	9.3759	PPBV		100
15) CHLOROETHANE	1.907	64	75846	8.5774	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	291881	9.5320	PPBV		99
17) ACETONITRILE	1.997	41	106769	7.0172	PPBV		99
18) ACROLEIN	2.032	56	59014	8.1648	PPBV		97
19) FREON 123	2.049	83	307928	9.9807	PPBV		98
20) FREON 123A	2.065	117	191785	10.4929	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.129	101	361225	10.3675	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	295804	10.0186	PPBV		98
23) ACETONE	2.071	58	72600	8.9935	PPBV		94
24) PENTANE	2.241	42	134532	8.4133	PPBV		94
25) IODOMETHANE	2.303	142	343257	10.7080	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	131850	9.9274	PPBV		96
27) CARBON DISULFIDE	2.463	76	340942	9.0473	PPBV		99
28) ETHANOL	1.936	45	58995	7.5054	PPBV		99
29) BROMOETHENE	2.004	106	122429	9.6535	PPBV		99
30) ACRYLONITRILE	2.213	52	102848	9.0602	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	114935	8.8279	PPBV		92
32) 3-CHLOROPROPENE	2.409	76	61802	8.6996	PPBV		93
33) FREON 113	2.463	151	221690	11.0816	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.688	96	125441	8.5845	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	280149	7.5945	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.791	73	399208	9.6040	PPBV		100
37) TETRAHYDROFURAN	3.470	72	61872	9.1781	PPBV		98
38) HEXANE	3.241	57	266824	9.5301	PPBV		99
39) VINYL ACETATE	2.827	86	38741	9.6968	PPBV		94
40) 1,1-DICHLOROETHANE	2.762	63	263022	9.3110	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	70574	9.2377	PPBV		100
42) CIS-1,2-DICHLOROETHENE	3.116	96	150241	9.9121	PPBV		98
43) DIISOPROPYL ETHER	3.245	59	75359	9.4934	PPBV		96
44) ETHYL ACETATE	3.251	61	54193	10.0984	PPBV		90
45) METHYL ACRYLATE	3.235	55	329510	9.7261	PPBV	#	100
46) CHLOROFORM	3.264	83	301131	10.2998	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313300	9.9979	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	319066	10.3549	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	341442	10.6965	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224067	9.8589	PPBV		99
51)	BENZENE	4.129	78	427351	9.5286	PPBV		99
53)	CYCLOHEXANE	4.335	84	192042	9.9473	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.585	71	99357	10.3199	PPBV		99
55)	TRICHLOROETHENE	5.013	95	200744	9.7542	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181431	9.9743	PPBV		99
57)	DIBROMOMETHANE	4.746	174	218086	12.4356	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	407383	10.0060	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	336180	10.1104	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	841343	9.4428	PPBV		100
61)	1,4-DIOXANE	5.026	88	98685	10.1301	PPBV		99
62)	HEPTANE	5.418	43	279169	9.4893	PPBV		98
63)	METHYL METHACRYLATE	5.319	69	162132	9.8075	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.039	58	162679	9.2211	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	278200	9.9744	PPBV		97
66)	TOLUENE	7.129	91	538193	10.2715	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	272716	10.3818	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	244994	9.7221	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	157387	10.5412	PPBV		98
70)	2-HEXANONE	7.695	58	218019	8.8566	PPBV		97
71)	ETHYL METHACRYLATE	7.833	69	275154	9.9781	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	251471	13.1576	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.662	129	353185	11.6401	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	300394	11.1211	PPBV	#	99
75)	OCTANE	8.997	43	388518	9.8589	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	242787	10.9783	PPBV		97
78)	CHLOROBENZENE	10.045	112	443864	10.5427	PPBV		99
79)	ETHYLBENZENE	10.923	91	739788	10.7232	PPBV		99
80)	M,P-XYLENE	11.347	91	1153457	20.6391	PPBV		98
81)	O-XYLENE	12.273	91	584599	10.7774	PPBV		99
82)	STYRENE	12.067	104	445360	10.9519	PPBV		99
83)	NONANE	13.402	43	410336	9.7183	PPBV		98
84)	BROMOFORM	11.161	173	398925	15.3343	PPBV	#	96
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	414118	10.6580	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	327867	10.7664	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	214666	10.4107	PPBV		99
89)	BROMOBENZENE	13.649	77	401712	10.1439	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	197839	10.2874	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	227675	10.4033	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	857338	10.5856	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	716951	10.6365	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.173	118	346037	10.3514	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	159454	9.7027	PPBV		83
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	732817	10.9666	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	536086	9.9303	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	474032	10.3252	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	478030	10.5669	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	449579	10.5567	PPBV		98
101)	SEC-BUTYLBENZENE	16.813	134	199209	10.1797	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	704353	10.5147	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	218072	10.0260	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	212975	10.2706	PPBV		90
105)	HEXACHLOROETHANE	17.556	117	276086	10.8071	PPBV	#	85
106)	HEXACHLOROBUTADIENE	18.620	225	558862	18.4519	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.308	180	562805	15.4937	PPBV		97
108)	NAPHTHALENE	18.357	128	1051771	12.9074	PPBV		99
110)	TVHC as equiv Pentane	2.241	TIC	662208	8.7586	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

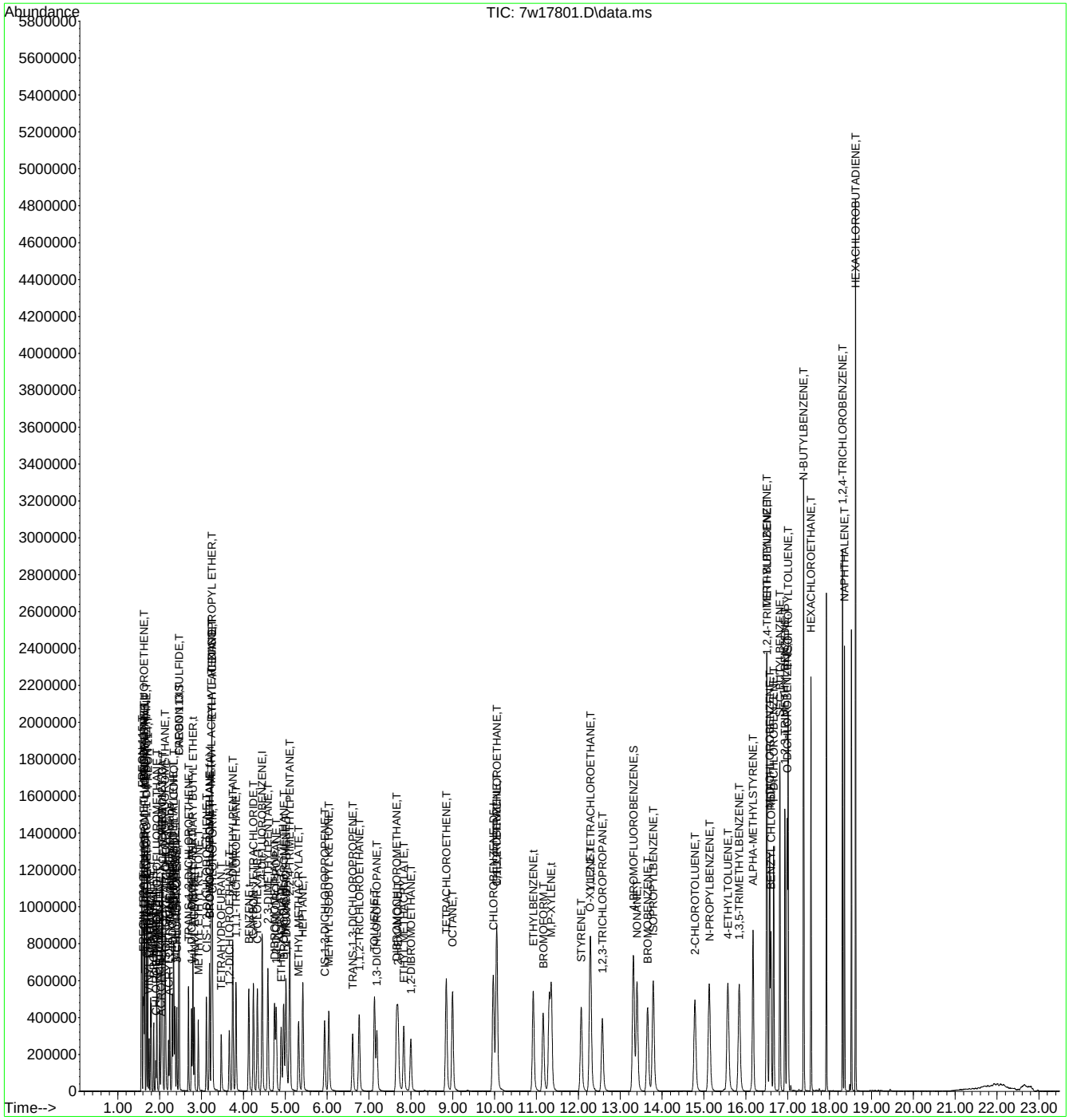
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

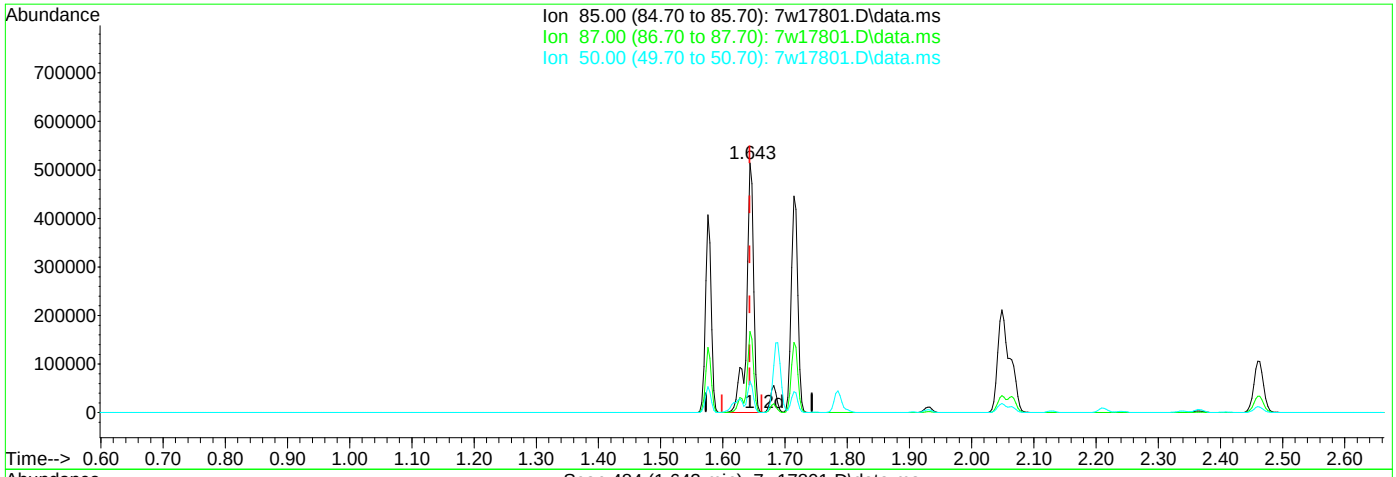
Sample Number: V7W624-CC577
Lab FileID: 7W17801.D
Injection Time: 10/13/25 11:18
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

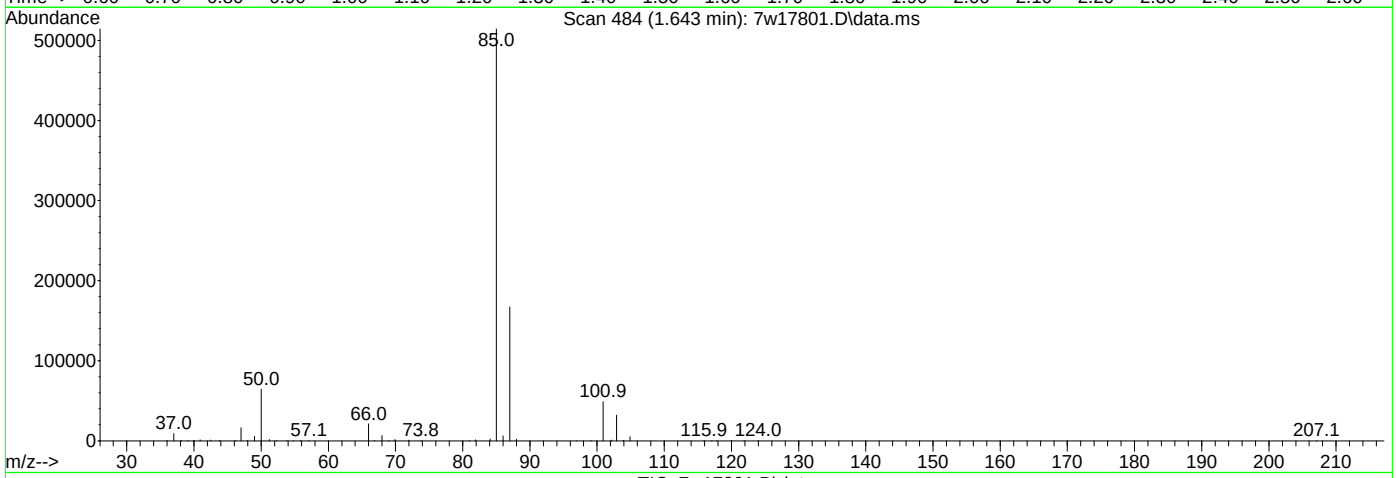
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 12.63PPBV

response 405326

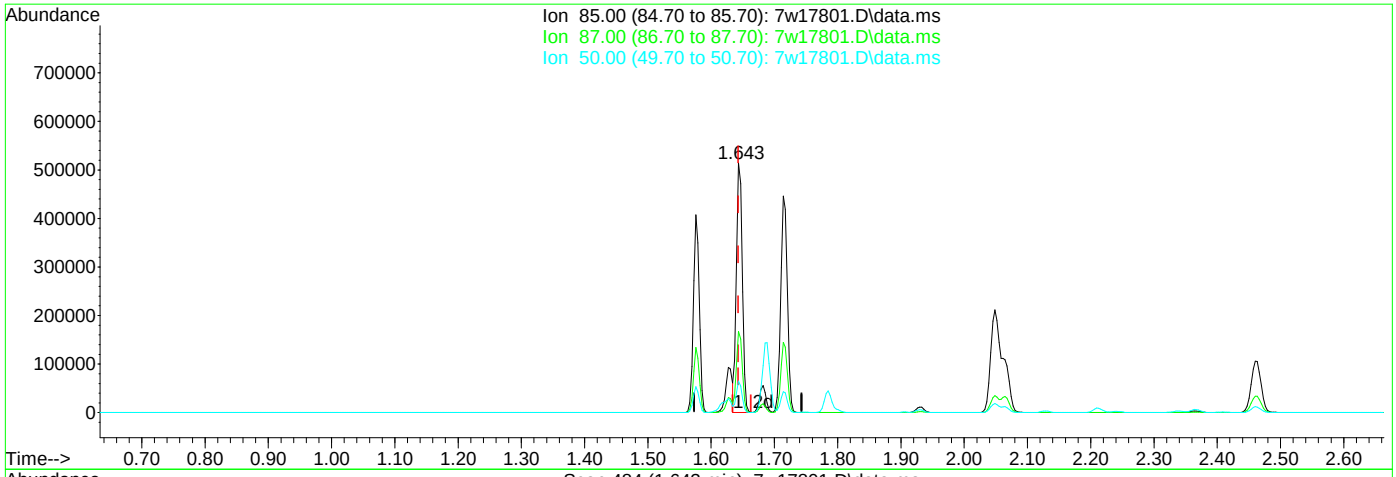
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.32
50.00	19.30	18.13
0.00	0.00	0.00

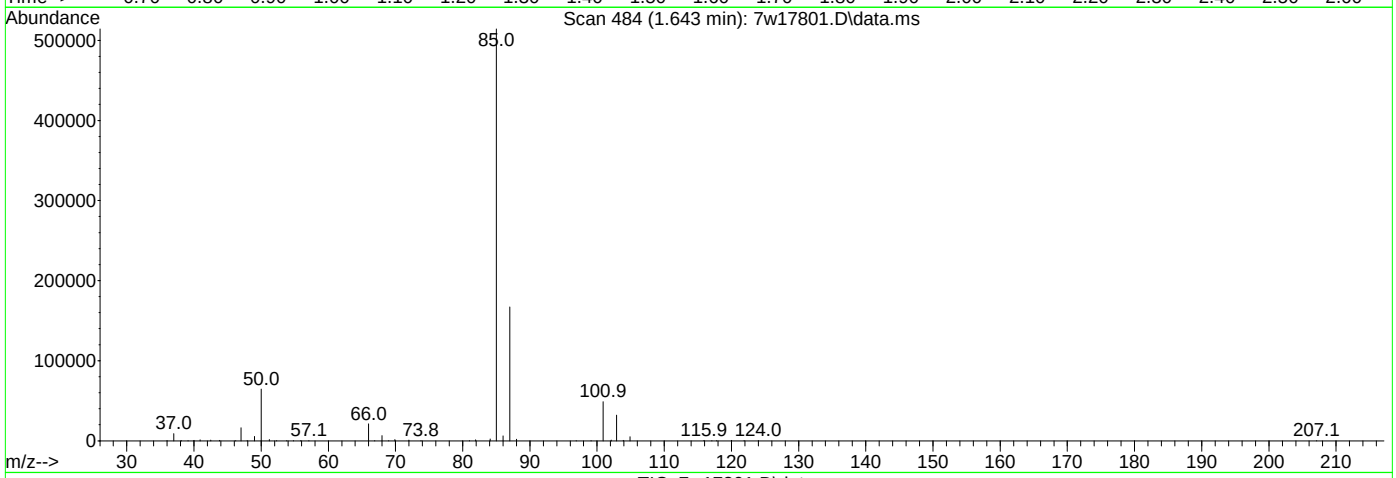
7W17801.D edits: DICHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 10.53PPBV m

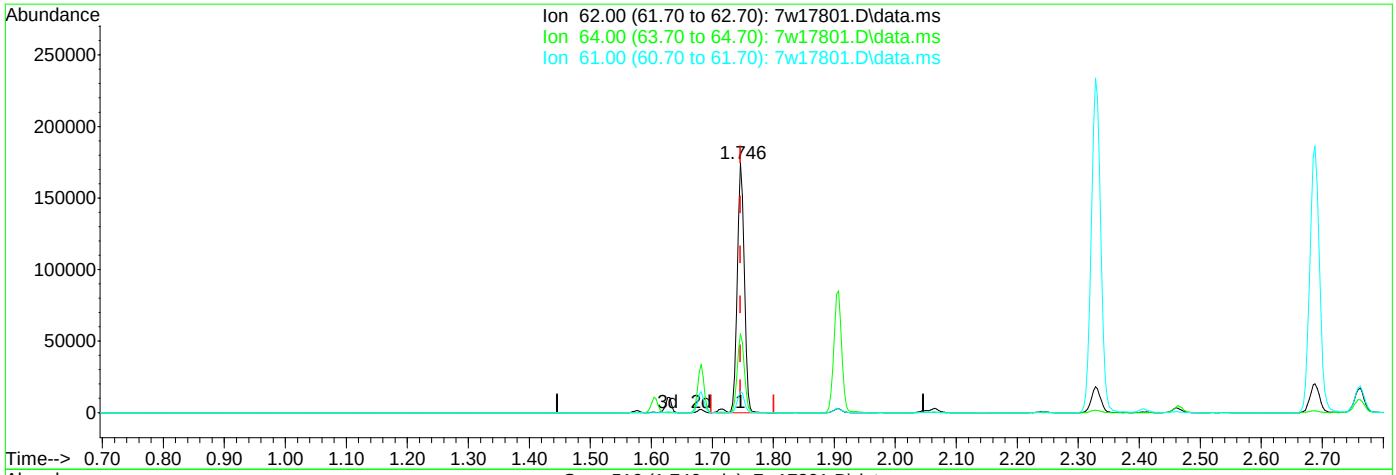
response 337777

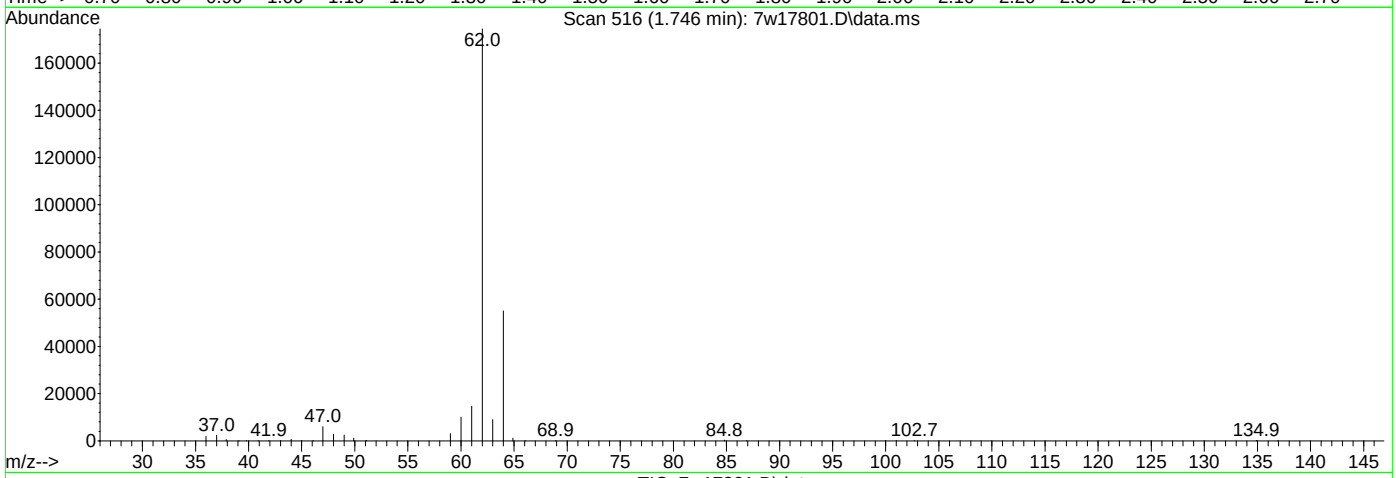
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.66PPBV

response 141102

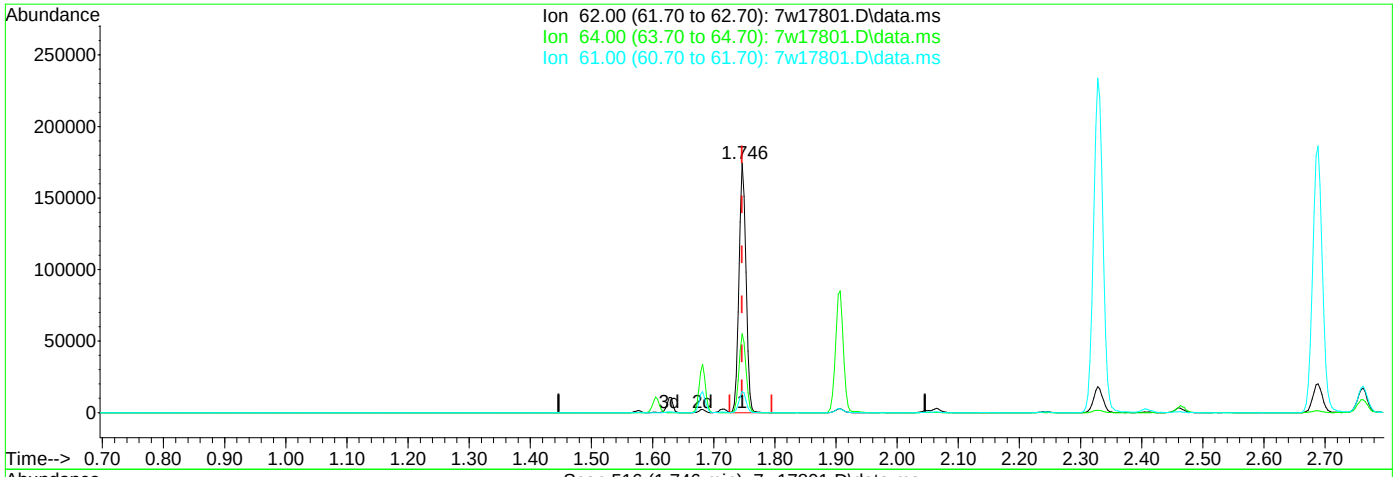
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.50
61.00	8.10	8.41
0.00	0.00	0.00

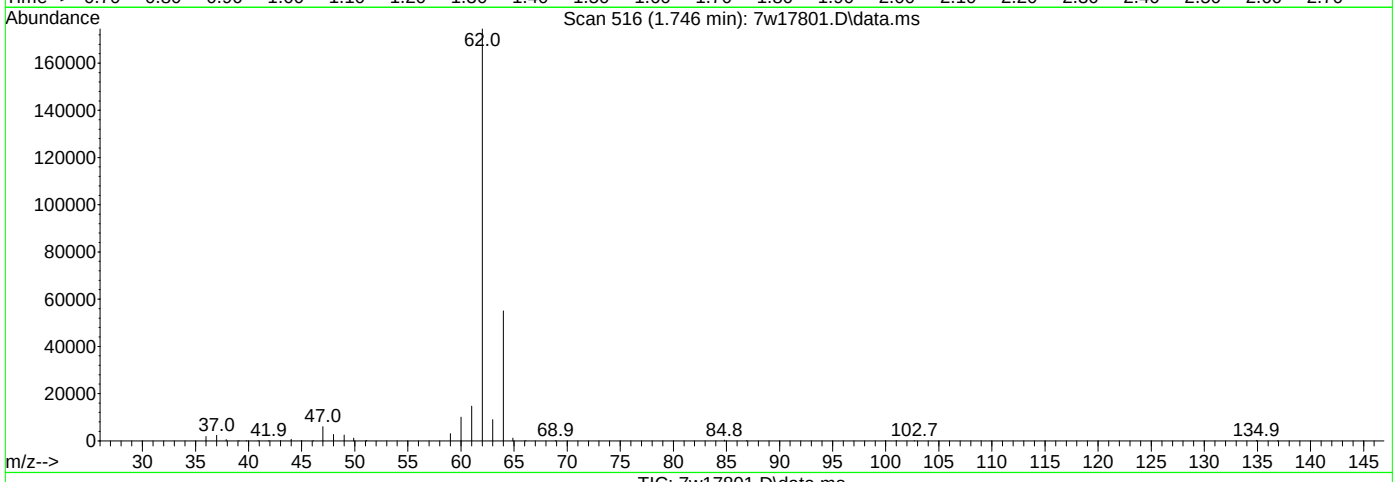
7W17801.D edits: VINYL CHLORIDE

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.54PPBV m

response 139139

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.95
61.00	8.10	8.53
0.00	0.00	0.00

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1796	AS10783	12/5/2025	0.40
TO-15 STD	A2035	AS10781	12/4/2025	4.0
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS	A1810	AS10784	12/6/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2292
Date: 11/6/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251106ical.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Benjamin Kim
Data Validator(s):
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	000	5w59763			A2039	0					-	
1-1	000	5w59764			A2039	0					-	
1-1	000	5w59765			A2039	0					-	
1-1	istd only	5w59766			A2039	0					-	
1-1	ib	5w59767			A2039	400					-	
1-2	bfb	5w59768			A1796	5					OK	T = 21:59
1-2	ic2292-0.04	5w59769			A1796	40			√	√	OK	
1-2	ic2292-0.1	5w59770			A1796	100			√	√	OK	
1-2	ic2292-0.2	5w59771			A1796	200			√	√	OK	
1-2	ic2292-0.5	5w59772			A1796	500					NOT USED	Method Development
1-1	ib	5w59773			A2039	200					-	
1-1	ib	5w59774			A2039	400					-	
1-3	ic2292-0.1	5w59775			A2035	10					NOT USED	Method Development
1-3	ic2292-0.2	5w59776			A2035	20					NOT USED	Method Development
1-3	ic2292-0.5	5w59777			A2035	50			√	√	OK	
1-3	ic2292-5	5w59778			A2035	500					NOT USED	Method Development
1-1	ib	5w59779			A2039	200					-	
1-1	ib	5w59780			A2039	400					-	
1-4	ic2292-0.5	5w59781			A1788	5					NOT USED	Method Development
1-4	ic2292-5	5w59782			A1788	50			√	√	OK	
1-4	icc2292-10	5w59783			A1788	100			√	√	OK	
1-4	ic2292-20	5w59784			A1788	200			√	√	OK	
1-4	ic2292-40	5w59785			A1788	400			√	√	OK	
1-4	ic2292-50	5w59786			A1788	500			√	√	OK	
1-4	ic2292-60	5w59787			A1788	500			√	√	OK	
1-1	ib	5w59788			A2039	400					-	
1-1	ib	5w59789			A2039	400					-	
1-5	icv2292-10	5w59790			A1810	100			√	√	OK	
1-1	ib	5w59791			A2039	200					-	
1-1	ib	5w59792			A2039	400					-	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2301
Date: 11/24/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Claire Basilio
Data Validator(s): Geralyn Gomez
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	bfb	5w60000			A1788	100					OK	T = 10:05
SS-4	cc2292-10	5w60001			A1788	100			√	√	OK	
SS-4	bs	5w60002			A1788	100			√	√	OK	
SS-4	bsd	5w60003			A1788	100			√	√	OK	
1-1	ib	5w60004			A2039	400					-	
1-1	mb	5w60005			A2039	400		+	√	√	OK	
1-2	je23789-1	5w60006	MS99437	NYSVLL, NAP	A1625	40	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3	5w60007	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3dup	5w60008	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK	
1-4	je23790-1	5w60009	MS99437	NYSVLL, NAP	A259	400	1		√	√	OK	
1-5	je23790-3	5w60010	MS99437	NYSVLL, NAP	A1703	400	1		√	√	OK	
1-6	je23791-1	5w60011	MS99437	NYSVLL, NAP	A1167	400	1		√	√	OK/DL	↑ TCFM, RR = 4x
1-7	je23791-2	5w60012	MS99437	NYLL, NAP	A1657	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-8	je23791-3	5w60013	MS99437	NYSVLL, NAP	A655	400	1		√	√	OK	
1-9	je23791-4	5w60014	MS99437	NYLL, NAP	A215	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-10	je23793-1	5w60015	MS99437	NYSVLL, NAP	A1627	400	1		√	√	OK/DL	↑ Acetone, RR = 4x
1-11	je23793-2	5w60016	MS99437	NYLL, NAP	A1687	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-12	je23793-3	5w60017	MS99437	NYSVLL, NAP	A1764	400	1		√	√	OK	
1-13	je23793-4	5w60018	MS99437	NYLL, NAP	A1472	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-14	je23793-5	5w60019	MS99437	NYSVLL, NAP	M163	400	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-15	je23793-6	5w60020	MS99437	NYLL, NAP	A2086	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-16	je23794-1	5w60021	MS99437	NYLL, NAP	A1654	500	1		√	√	OK	
1-4	je23794-2	5w60022	MS99437	NYLL, NAP	A247	500	1		√	√	OK	
1-5	je23940-1	5w60023	MS99497	NYLL	A2164	500	1		√	√	OK	
1-8	je23940-2	5w60024	MS99497	NYLL	A2097	500	1		√	√	OK	
1-12	je23836-1	5w60025	MS99497	STD+, NAP	A1333	400	1	+	√	√	RR	No Can Attached.
1-1	je23836-2	5w60026	MS99497	STD+, NAP	M262	400	1	+	√	√	OK	
1-2	je23789-1	5w60027	MS99437	NYSVLL, NAP	A1625	400	1		√	√	OK	
1-3	je23789-3	5w60028	MS99437	NYSVLL, NAP	A1590	400	1		√	√	OK	
1-6	je23791-1	5w60029	MS99437	NYSVLL, NAP	A1167	100	1		√	√	OK	
1-7	je23791-2	5w60030	MS99437	NYLL, NAP	A1657	50	1		√	√	OK/DL	↑ Acetone, RR = 20x
1-9	je23791-4	5w60031	MS99437	NYLL, NAP	A215	50	1				NOT USED	Past BFB Tune
1-10	je23793-1	5w60032	MS99437	NYSVLL, NAP	A1627	100	1				NOT USED	
1-11	je23793-2	5w60033	MS99437	NYLL, NAP	A1687	50	1				NOT USED	
1-13	je23793-4	5w60034	MS99437	NYLL, NAP	A1472	50	1				NOT USED	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: **V5W2301**
Date: **11/24/2025**
Laboratory Analyst: **Benjamin Kim**
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): **Claire Basilio**
Data Validator(s): **Geralyn Gomez**
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2302
Date: 11/25/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251125.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Claire Basilio
Data Validator(s): Rosanlee Alfon
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	ib	5w60031			A2039	20						
1-1	bfb	5w60032			A1788	100					OK	T = 10:05
SS-4	cc2292-10	5w60033			A1788	100			√	√	OK	
SS-4	bs	5w60034			A1788	100			√	√	OK	
SS-4	bsd	5w60035			A1788	100			√	√	OK	
1-1	ib	5w60036			A2039	400					-	
1-1	ib	5w60037			A2039	400					-	
1-1	mb	5w60038			A2039	400		+	√	√	OK	
1-7	je23791-2	5w60039	MS99437	NYLL, NAP	A1657	25	1		√	√	OK	
1-12	je23836-1	5w60040	MS99497	STD+, NAP	A1333	400	1	+	√	√	OK	
1-12	je23836-1dup	5w60041	MS99497	STD+, NAP	A1333	400	1	+	√	√	OK	
1-9	je23791-4	5w60042	MS99437	NYLL, NAP	A215	50	1		√	√	OK	
1-10	je23793-1	5w60043	MS99437	NYSVLL, NAP	A1627	100	1		√	√	OK/DL	↑ Acetone, RR = 50cc
1-11	je23793-2	5w60044	MS99437	NYLL, NAP	A1687	50	1		√	√	OK	
1-13	je23793-4	5w60045	MS99437	NYLL, NAP	A1472	50	1		√	√	OK/DL	↑ Acetone, RR = 25cc
1-14	je23793-5	5w60046	MS99437	NYSVLL, NAP	M163	40	1		√	√	OK	
1-15	je23793-6	5w60047	MS99437	NYLL, NAP	A2086	50	1		√	√	OK	
1-10	je23793-1	5w60048	MS99437	NYSVLL, NAP	A1627	50	1		√	√	OK	
1-13	je23793-4	5w60049	MS99437	NYLL, NAP	A1472	25	1		√	√	OK	
1-15	je23793-6	5w60050	MS99437	NYLL, NAP	A1472	25	1		√	√	OK/DL	↑ Acetone, RR = 10cc
1-1	je24005-17	5w60051	MS99533	STD+, NAP	A1395	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-15	je23793-6	5w60052	MS99437	NYLL, NAP	A1395	10	1		√	√	OK	
1-2	je24005-18	5w60053	MS99533	STD+, NAP	A1392	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-3	je24005-19	5w60054	MS99533	STD+, NAP	A2573	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-4	je24005-20	5w60055	MS99533	STD+, NAP	A1386	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-5	je24005-21	5w60056	MS99533	STD+, NAP	A1531	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-6	je24005-22	5w60057	MS99533	STD+, NAP	A2253	10	1	+	√	√	OK/DL	↑ THF, RR = 5cc
1-1	je24005-17	5w60058	MS99533	STD+, NAP	A1395	5	1	+	√	√	OK	
1-2	je24005-18	5w60059	MS99533	STD+, NAP	A1392	5	1	+	√	√	OK	
1-3	je24005-19	5w60060	MS99533	STD+, NAP	A2573	5	1	+	√	√	OK	
1-4	je24005-20	5w60061	MS99533	STD+, NAP	A1386	5	1	+	√	√	OK	
1-6	je24005-22	5w60062	MS99533	STD+, NAP	A2253	5	1	+	√	√	OK	
1-7	je24005-22	5w60063	MS99533	STD+, NAP	A2253	5	1	+			RR	wrong position injected

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-5	prime-40std	7w16562			A967	20						
2-4	prime-4std	7w16563			A1806	20						
2-3	prime-0.4std	7w16564			A2035	20						
2-2	prime-40lcs	7w16565			A1796	20						
2-1	0	7w16566			A2039	0						
2-1	0	7w16567			A2039	0						
2-1	0	7w16568			A2039	0						
2-1	istd only	7w16569			A2039	0						
2-1	istd only	7w16570			A2039	0						
2-1	istd only	7w16571			A2039	0						
2-1	ib	7w16572			A2039	400						
2-1	bfb	7w16573			A2039	400					OK	T = 2:05 (8/7/25)
2-1	ib	7w16574			A2039	400						
2-1	ib	7w16575			A1796	1						
2-2	ic577-0.04	7w16576			A1796	40			√	√	OK	
2-2	ic577-0.1	7w16577			A1796	100			√	√	OK	
2-2	ic577-0.2	7w16578			A1796	200					NOT USED	Method development
2-2	ic577-0.5	7w16579			A1796	500					NOT USED	Method development
2-1	ib	7w16580			A2039	400					NOT USED	Method development
2-3	ib	7w16581			A2035	1						
2-3	ic577-0.1	7w16582			A2035	10					NOT USED	Method development
2-3	ic577-0.2	7w16583			A2035	20			√	√	OK	
2-3	ic577-0.5	7w16584			A2035	50			√	√	OK	
2-3	ic577-5.0	7w16585			A2035	500					NOT USED	Method development
2-1	ib	7w16586			A2039	400						
2-4	ib	7w16587			A1806	1						
2-4	ic577-0.5	7w16588			A1806	5					NOT USED	Method development
2-4	ic577-5.0	7w16589			A1806	50			√	√	OK	
2-4	icc577-10	7w16590			A1806	100			√	√	OK	
2-4	ic577-20	7w16591			A1806	200			√	√	OK	
2-4	ic577-40	7w16592			A1806	400			√	√	OK	
2-4	ic577-50	7w16593			A1806	500			√	√	OK	
2-4	ic577-60	7w16594			A1806	600			√	√	OK	
2-1	ib	7w16595			A2039	400						
2-1	ib	7w16596			A2039	400						
2-5	icv577-10	7w16597			A967	100			√	√	OK	
2-1	ib	7w16598			A2039	100						
2-1	ib	7w16599			A2039	100						
SS4	ib	7w16600			A1798	100						
2-1	ib	7w16601			A2039	100						

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
	Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]											
Example:	Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.											
Notes:												

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	a1788	AS10741	10/8/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W613
Date: 9/26/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250926.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Kristel Valladolid
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w17472			A1827	20					OK	t=10:25
SS4	cc577-10	7w17473			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bs	7w17474			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bsd	7w17475			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
2-1	ib	7w17476			A1827	100					-	
2-1	mb	7w17477			A1827	400		+	√	√	OK	
2-2	je19194-2	7w17478	ms97046	CHLFRM	A328	620	1.55		√	√	OK	
2-3	je19194-3	7w17479	ms97046	CHLFRM	A188	680	1.7		√	√	OK	
2-4	je19193-1	7w17480	ms97046	CHLFRM	A452	608	1.52		√	√	OK	
2-5	je19193-2	7w17481	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-5	je19193-2dup	7w17482	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-11	scc,cp13198	7w17483			A053	400			√	√	OK	
2-12	scc,cp13198	7w17484			A1765	400			√	√	OK	
2-13	scc,cp13198	7w17485			A1644	400			√	√	OK	
2-14	scc,cp13199	7w17486			A1594	400			√	√	OK	
2-15	scc,cp13199	7w17487			A2121	400			√	√	OK	
2-16	scc,cp13199	7w17488			A737	400			√	√	OK	
A1	scc,cp13200	7w17489			A1412	100			√	√	OK	
A2	scc,cp13200	7w17490			A1428	100			√	√	OK	
A3	scc,cp13200	7w17491			A1439	100			√	√	OK	
A4	scc,cp13200	7w17492			A1881	100			√	√	OK	
A5	scc,cp13196	7w17493			A2380	100			√	√	OK	
A6	scc,cp13196	7w17494			A1574	100			√	√	OK	
A7	scc,cp13196	7w17495			A2211	100			√	√	OK	
A8	scc,cp13196	7w17496			A2321	100			√	√	OK	4:48

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A977	AS10746	10/22/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W624
Date: 10/13/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251013.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Michaella Balido
Data Validator(s): Braian Casallas
Data Validator(s): Natalia Liberato

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-4	bfb	7w17800			Open position	400			v	v	OK	t = 10:41
SS4	cc577-10	7w17801			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bs	7w17802			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bsd	7w17803			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
2-1	ib	7w17804			A1827	100					-	
2-1	mb	7w17805			A1827	400		+	v	v	OK	
C1	je20658-5	7w17806	MS97882	NYSVLL	A1762	10	1.35		v	v	RR	Combine with previous data from batch v7w623
2-2	je20702-1	7w17807	MS97930	STD	A902	400	1		v	v	OK	
2-2	je20702-1dup	7w17808	MS97930	STD	A902	400	1		v	v	OK	
2-3	je20654-1	7w17809	MS97882	NYLL	M311	760	1.52		v	v	OK	
2-4	je20654-2	7w17810	MS97882	NYLL	A1168	790	1.58		v	v	OK	
2-5	je20654-3	7w17811	MS97882	NYLL	A1708	500	1		v	v	OK	
2-6	je20654-5	7w17812	MS97882	NYLL	A743	500	1		v	v	OK	
2-7	je20654-6	7w17813	MS97882	NYLL	A2109	800	1.6		v	v	OK	
2-8	je20654-8	7w17814	MS97882	NYLL	M272	800	1.65		v	v	OK	
2-9	je20654-9	7w17815	MS97882	NYLL	A1081	800	1.6		v	v	OK	
2-10	je20654-13	7w17816	MS97882	NYLL	A1357	800	1.7		v	v	OK	
2-11	je20700-1	7w17817	MS98033	STD	M127	400	1		v	v	OK	
C2	je20654-4	7w17818	MS97882	NYSVLL	M237	632	1.58		v	v	OK	
C3	je20654-10	7w17819	MS97882	NYSVLL	A1323	400	1		v	v	OK	
C4	je20654-11	7w17820	MS97882	NYSVLL	M053	660	1.65		v	v	OK	
C5	je20654-12	7w17821	MS97882	NYSVLL	A1194	640	1.6		v	v	OK	
C6	je20654-7	7w17822	MS97882	NYSVLL	A1055	40	1		v	v	OK	
A1	je20697-1	7w17823	MS98033	SL	A1963	100	1		v	v	OK	
A2	je20697-2	7w17824	MS98033	SL	A1569	100	1		v	v	OK	
A3	je20646-1	7w17825	MS97882	SL	A2442	40	1		v	v	/DL	Acetone ↑; RR = 10cc
A4	je20646-2	7w17826	MS97882	SL	A1925	10	1		v	v	OK	t = 6:55 am
2-13	scc,cp13206	7w17827			A1088	400			v	v	OK	
2-14	scc,cp13206	7w17828			A457	400			v	v	OK	
2-15	scc,cp13206	7w17829			A638	400			v	v	OK	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

Regency Center Carmel ShopRite Plaza, Carmel, NY

1192343-02-210

SGS Job Number: JE23790

Sampling Date: 11/18/25



Report to:

Groundwater & Environmental Services
63 East Street Suite 3
Pawling, NY 12564
MDegloria@GESOnline.com; neregion@gesonline.com

ATTN: Michael DeGloria

Total number of pages in report: **1750**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Vinnie Dileo 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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SGS North America Inc.

Sample Summary

Groundwater & Environmental Services

Job No: JE23790

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the RL							
JE23790-1	11/18/25	19:10	LM	11/20/25	AIR	Soil Vapor Comp.	SS-7
JE23790-2	11/18/25	19:12	LM	11/20/25	AIR	Indoor Air Comp.	IA-7
JE23790-3	11/18/25	19:15	LM	11/20/25	AIR	Soil Vapor Comp.	SS-8
JE23790-4	11/18/25	19:18	LM	11/20/25	AIR	Indoor Air Comp.	IA-8

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Groundwater & Environmental Services	**Job No:**	JE23790
Site:	Regency Center Carmel ShopRite Plaza, Carmel, NY	**Report Date**	12/5/2025 4:12:54 AM

On 11/20/2025, 4 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS). An SGS Job Number of JE23790 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V5W2301

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23789-3DUP were used as the QC samples indicated.
- Sample(s) JE23790-1, JE23790-3 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.
- The duplicate RPD(s) for Vinyl Acetate, Benzene, Chloroform, Chloromethane, Cyclohexane, Ethylbenzene, Hexane, m,p-Xylene, m-Dichlorobenzene, Methylene chloride, o-Xylene, Tetrahydrofuran, Xylenes (total) are outside control limits for sample JE23789-3DUP. RPD acceptable due to low DUP and sample concentrations.
- JE23789-3DUP for Vinyl Acetate: Outside in house control limits.

Matrix: AIR **Batch ID:** V7W655

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23787-3DUP were used as the QC samples indicated.
- Sample(s) JE23790-2 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE23790
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE23790-1	**SS-7**					
Acetone (2-Propanone)		19.6	0.20		ppbv	TO-15
Benzene		0.25	0.20		ppbv	TO-15
Dichlorodifluoromethane		0.73	0.20		ppbv	TO-15
m-Dichlorobenzene		0.50	0.10		ppbv	TO-15
Ethanol		185 E	0.50		ppbv	TO-15
Ethyl Acetate		5.1	0.20		ppbv	TO-15
Heptane		0.21	0.20		ppbv	TO-15
Hexane		0.23	0.20		ppbv	TO-15
Isopropyl Alcohol		9.4	0.20		ppbv	TO-15
Methylene chloride		0.39	0.20		ppbv	TO-15
Methyl ethyl ketone		1.8	0.20		ppbv	TO-15
Tertiary Butyl Alcohol		3.0	0.20		ppbv	TO-15
Tetrachloroethylene		2.8	0.040		ppbv	TO-15
Toluene		0.59	0.20		ppbv	TO-15
Trichlorofluoromethane		13.0	0.10		ppbv	TO-15
Vinyl Acetate		1.1	0.20		ppbv	TO-15
m,p-Xylene		0.50	0.20		ppbv	TO-15
o-Xylene		0.22	0.20		ppbv	TO-15
Xylenes (total)		0.72	0.20		ppbv	TO-15
Acetone (2-Propanone)		46.6	0.48		ug/m3	TO-15
Benzene		0.80	0.64		ug/m3	TO-15
Dichlorodifluoromethane		3.6	0.99		ug/m3	TO-15
m-Dichlorobenzene		3.0	0.60		ug/m3	TO-15
Ethanol		349 E	0.94		ug/m3	TO-15
Ethyl Acetate		18	0.72		ug/m3	TO-15
Heptane		0.86	0.82		ug/m3	TO-15
Hexane		0.81	0.70		ug/m3	TO-15
Isopropyl Alcohol		23	0.49		ug/m3	TO-15
Methylene chloride		1.4	0.69		ug/m3	TO-15
Methyl ethyl ketone		5.3	0.59		ug/m3	TO-15
Tertiary Butyl Alcohol		9.1	0.61		ug/m3	TO-15
Tetrachloroethylene		19	0.27		ug/m3	TO-15
Toluene		2.2	0.75		ug/m3	TO-15
Trichlorofluoromethane		73.1	0.56		ug/m3	TO-15
Vinyl Acetate		3.9	0.70		ug/m3	TO-15
m,p-Xylene		2.2	0.87		ug/m3	TO-15
o-Xylene		0.96	0.87		ug/m3	TO-15
Xylenes (total)		3.2	0.87		ug/m3	TO-15
JE23790-2	**IA-7**					
Acetone (2-Propanone)		10.1	0.16		ppbv	TO-15
Benzene		0.28	0.16		ppbv	TO-15

Summary of Hits

Job Number: JE23790
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chloromethane		0.41	0.16		ppbv	TO-15
Dichlorodifluoromethane		0.44	0.16		ppbv	TO-15
Ethanol		504 E	0.40		ppbv	TO-15
Ethyl Acetate		2.5	0.16		ppbv	TO-15
Heptane		0.20	0.16		ppbv	TO-15
Hexane		0.35	0.16		ppbv	TO-15
Isopropyl Alcohol		1.8	0.16		ppbv	TO-15
Methylene chloride		0.36	0.16		ppbv	TO-15
Propylene		0.81	0.40		ppbv	TO-15
Toluene		0.24	0.16		ppbv	TO-15
Trichlorofluoromethane		0.30	0.080		ppbv	TO-15
m,p-Xylene		0.33	0.16		ppbv	TO-15
Xylenes (total)		0.48	0.16		ppbv	TO-15
Acetone (2-Propanone)		24.0	0.38		ug/m3	TO-15
Benzene		0.89	0.51		ug/m3	TO-15
Chloromethane		0.85	0.33		ug/m3	TO-15
Dichlorodifluoromethane		2.2	0.79		ug/m3	TO-15
Ethanol		950 E	0.75		ug/m3	TO-15
Ethyl Acetate		9.0	0.58		ug/m3	TO-15
Heptane		0.82	0.66		ug/m3	TO-15
Hexane		1.2	0.56		ug/m3	TO-15
Isopropyl Alcohol		4.4	0.39		ug/m3	TO-15
Methylene chloride		1.3	0.56		ug/m3	TO-15
Propylene		1.4	0.69		ug/m3	TO-15
Toluene		0.90	0.60		ug/m3	TO-15
Trichlorofluoromethane		1.7	0.45		ug/m3	TO-15
m,p-Xylene		1.4	0.69		ug/m3	TO-15
Xylenes (total)		2.1	0.69		ug/m3	TO-15
JE23790-3	**SS-8**					
Acetone (2-Propanone)		19.7	0.20		ppbv	TO-15
Dichlorodifluoromethane		0.57	0.20		ppbv	TO-15
m-Dichlorobenzene		0.32	0.10		ppbv	TO-15
Ethanol		119 E	0.50		ppbv	TO-15
Ethyl Acetate		7.2	0.20		ppbv	TO-15
Hexane		0.32	0.20		ppbv	TO-15
Isopropyl Alcohol		6.2	0.20		ppbv	TO-15
Methylene chloride		0.28	0.20		ppbv	TO-15
Methyl ethyl ketone		1.1	0.20		ppbv	TO-15
Tertiary Butyl Alcohol		1.7	0.20		ppbv	TO-15
Tetrachloroethylene		0.66	0.040		ppbv	TO-15
Tetrahydrofuran		0.52	0.20		ppbv	TO-15
Toluene		0.46	0.20		ppbv	TO-15
Trichlorofluoromethane		1.8	0.10		ppbv	TO-15

Summary of Hits

Job Number: JE23790
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vinyl Acetate		0.55	0.20		ppbv	TO-15
m,p-Xylene		0.36	0.20		ppbv	TO-15
Xylenes (total)		0.52	0.20		ppbv	TO-15
Acetone (2-Propanone)		46.8	0.48		ug/m3	TO-15
Dichlorodifluoromethane		2.8	0.99		ug/m3	TO-15
m-Dichlorobenzene		1.9	0.60		ug/m3	TO-15
Ethanol		224 E	0.94		ug/m3	TO-15
Ethyl Acetate		26	0.72		ug/m3	TO-15
Hexane		1.1	0.70		ug/m3	TO-15
Isopropyl Alcohol		15	0.49		ug/m3	TO-15
Methylene chloride		0.97	0.69		ug/m3	TO-15
Methyl ethyl ketone		3.2	0.59		ug/m3	TO-15
Tertiary Butyl Alcohol		5.2	0.61		ug/m3	TO-15
Tetrachloroethylene		4.5	0.27		ug/m3	TO-15
Tetrahydrofuran		1.5	0.59		ug/m3	TO-15
Toluene		1.7	0.75		ug/m3	TO-15
Trichlorofluoromethane		10	0.56		ug/m3	TO-15
Vinyl Acetate		1.9	0.70		ug/m3	TO-15
m,p-Xylene		1.6	0.87		ug/m3	TO-15
Xylenes (total)		2.3	0.87		ug/m3	TO-15
JE23790-4	**IA-8**					
Acetone (2-Propanone)		5.0	0.16		ppbv	TO-15
Chloromethane		0.41	0.16		ppbv	TO-15
Dichlorodifluoromethane		0.46	0.16		ppbv	TO-15
Ethanol		44.8	0.40		ppbv	TO-15
Ethyl Acetate		2.3	0.16		ppbv	TO-15
Hexane		0.20	0.16		ppbv	TO-15
Isopropyl Alcohol		0.81	0.16		ppbv	TO-15
Methylene chloride		0.32	0.16		ppbv	TO-15
Propylene		0.45	0.40		ppbv	TO-15
Trichlorofluoromethane		0.24	0.080		ppbv	TO-15
Acetone (2-Propanone)		12	0.38		ug/m3	TO-15
Chloromethane		0.85	0.33		ug/m3	TO-15
Dichlorodifluoromethane		2.3	0.79		ug/m3	TO-15
Ethanol		84.4	0.75		ug/m3	TO-15
Ethyl Acetate		8.3	0.58		ug/m3	TO-15
Hexane		0.70	0.56		ug/m3	TO-15
Isopropyl Alcohol		2.0	0.39		ug/m3	TO-15
Methylene chloride		1.1	0.56		ug/m3	TO-15
Propylene		0.77	0.69		ug/m3	TO-15
Trichlorofluoromethane		1.3	0.45		ug/m3	TO-15

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SS-7		
Lab Sample ID:	JE23790-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A259	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60009.D	1	11/24/25 17:15	BK	n/a	n/a	V5W2301
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	19.6	0.20	ppbv		46.6	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.25	0.20	ppbv		0.80	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.73	0.20	ppbv		3.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.50	0.10	ppbv		3.0	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-7		
Lab Sample ID:	JE23790-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A259	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	185	0.50	ppbv	E	349	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	5.1	0.20	ppbv		18	0.72	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	0.21	0.20	ppbv		0.86	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.23	0.20	ppbv		0.81	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	9.4	0.20	ppbv		23	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.39	0.20	ppbv		1.4	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.8	0.20	ppbv		5.3	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.0	0.20	ppbv		9.1	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	2.8	0.040	ppbv		19	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.59	0.20	ppbv		2.2	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	13.0	0.10	ppbv		73.1	0.56	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	1.1	0.20	ppbv		3.9	0.70	ug/m3
	106.2	m,p-Xylene	0.50	0.20	ppbv		2.2	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.22	0.20	ppbv		0.96	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.72	0.20	ppbv		3.2	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-7		
Lab Sample ID:	JE23790-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A259	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%		65-128%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	IA-7		
Lab Sample ID:	JE23790-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1705	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W18785.D	1	11/25/25 01:26	WC	n/a	n/a	V7W655
Run #2							

	Initial Volume
Run #1	500 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	10.1	0.16	ppbv		24.0	0.38	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	0.28	0.16	ppbv		0.89	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	ND	0.16	ppbv		ND	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.41	0.16	ppbv		0.85	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.032	ppbv		ND	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.44	0.16	ppbv		2.2	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-7		
Lab Sample ID:	JE23790-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1705	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	504	0.40	ppbv	E	950	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	2.5	0.16	ppbv		9.0	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	0.20	0.16	ppbv		0.82	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.35	0.16	ppbv		1.2	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.8	0.16	ppbv		4.4	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.36	0.16	ppbv		1.3	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.16	ppbv		ND	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.16	ppbv		ND	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	0.81	0.40	ppbv		1.4	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.16	ppbv		ND	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.032	ppbv		ND	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	0.24	0.16	ppbv		0.90	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.30	0.080	ppbv		1.7	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.16	ppbv		ND	0.56	ug/m3
	106.2	m,p-Xylene	0.33	0.16	ppbv		1.4	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	0.48	0.16	ppbv		2.1	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-7		
Lab Sample ID:	JE23790-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1705	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SS-8		
Lab Sample ID:	JE23790-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1703	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60010.D	1	11/24/25 17:58	BK	n/a	n/a	V5W2301
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	19.7	0.20	ppbv		46.8	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.57	0.20	ppbv		2.8	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.32	0.10	ppbv		1.9	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-8		
Lab Sample ID:	JE23790-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1703	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	119	0.50	ppbv	E	224	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	7.2	0.20	ppbv		26	0.72	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.32	0.20	ppbv		1.1	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	6.2	0.20	ppbv		15	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.28	0.20	ppbv		0.97	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.1	0.20	ppbv		3.2	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.7	0.20	ppbv		5.2	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.66	0.040	ppbv		4.5	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.52	0.20	ppbv		1.5	0.59	ug/m3
108-88-3	92.14	Toluene	0.46	0.20	ppbv		1.7	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.8	0.10	ppbv		10	0.56	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	0.55	0.20	ppbv		1.9	0.70	ug/m3
	106.2	m,p-Xylene	0.36	0.20	ppbv		1.6	0.87	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.52	0.20	ppbv		2.3	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-8		
Lab Sample ID:	JE23790-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1703	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		65-128%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	IA-8		
Lab Sample ID:	JE23790-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A748	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W18786.D	1	11/25/25 02:13	WC	n/a	n/a	V7W655
Run #2							

	Initial Volume
Run #1	500 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	5.0	0.16	ppbv		12	0.38	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	ND	0.16	ppbv		ND	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	ND	0.16	ppbv		ND	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.41	0.16	ppbv		0.85	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.032	ppbv		ND	0.20	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.16	ppbv		ND	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.16	ppbv		2.3	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-8		
Lab Sample ID:	JE23790-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A748	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	44.8	0.40	ppbv		84.4	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	2.3	0.16	ppbv		8.3	0.58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	ND	0.16	ppbv		ND	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.20	0.16	ppbv		0.70	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.81	0.16	ppbv		2.0	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.32	0.16	ppbv		1.1	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.16	ppbv		ND	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.16	ppbv		ND	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	0.45	0.40	ppbv		0.77	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.16	ppbv		ND	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.032	ppbv		ND	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.16	ppbv		ND	0.47	ug/m3
108-88-3	92.14	Toluene	ND	0.16	ppbv		ND	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.080	ppbv		1.3	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.16	ppbv		ND	0.56	ug/m3
	106.2	m,p-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.16	ppbv		ND	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-8		
Lab Sample ID:	JE23790-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A748	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle

Air

CHAIN OF CUSTODY - AIR

PAGE 1 OF 1 JE23790

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #: EN 11525 20
SGS Quote #: | SGS Job #: JE 23790

Client / Reporting Information

Company Name: Groundwater & Environmental Services
Address: 63 East Street, Suite 3
City: Pawling | State: NY | Zip: 12564
Project Contact: Jessica Montaldo | E-mail: Jmontaldo@gesonline.com
Phone #: 800-360-9405, ext 4328
Sampler(s) Name(s): Liam Maher

Project Information

Project Name: Regency Centers Carmel ShopRite Plaza, Carmel, NY
Street: 180 Gleneida Ave.
City: Carmel | State: NY
Project #: 1192343-02-210
Client Purchase Order #: Invoice to GES, please reference project #

Weather Parameters

Temperature (Fahrenheit): Start: 40 Maximum: 40 Stop: ~~30~~ 39 Minimum: 34
Atmoshpheric Pressure (inches of Hg): Start: 30.1 Maximum: 30.1 Stop: 30.1 Minimum: 30.1
Other weather comment:

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis: VTO15NYSVLL and VMS+NAP	Requested Analysis: VTO15NYLL and VMS+NAP
1	SS-7	SV	NR	A2559	6L	FC721	11/18/25	1113	30	65	LM	11/18/25	1910	5	70	LM	X	
2	IA-7	I	NR	A1705	6L	FC1453	11/18/25	1115	30	65	LM	11/18/25	1912	6	70	LM		X
3	SS-8	SV	NR	A1703	6L	FC1346	11/18/25	1118	30	60	LM	11/18/25	1915	4	70	LM	X	
4	IA-8	I	NR	A748	6L	FC998	11/18/25	1120	29	60	LM	11/18/25	1918	5	70	LM		X

Turnaround Time (Business days)

- 15 Business Days
- 10 Business Days
- 5 Business Days
- 3 Business Days *
- 2 Business Days *
- 1 Business Day *
- Other

Approved By: Date:
* Approval needed for 1-3 Business Day TAT

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other: NYCATB
DKQP reporting

Comments / Remarks

Tenant Space: Chinatown Restaurant

VTO15NYSVLL - soil vapor; VTO15NYLL - indoor/ambient
*NYCATB Report

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	11-19-25	1 FED-EX	2 FX	11/20/25 1000	2
3		3	4		4
5		5	Custody Seal #		

Initial Assessment 2A XL
Label Verification

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

JE23790: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE23790 **Client:** GROUNDWATER & ENVIRONMENTAL S **Project:** REGENCY CENTERS, GLENEIDA AVE, C

Date / Time Received: 11/20/2025 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Received: 11/20/25

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A259	6	30	11/11/25	JT	CP13206	7W17829.D	JE23790-1	11/21/25	TCH	5			1
A1705	6	30	11/11/25	JT	CP13206	7W17829.D	JE23790-2	11/21/25	TCH	5			1
A1703	6	30	11/11/25	JT	CP13198	7W17485.D	JE23790-3	11/21/25	TCH	4.5			1
A748	6	30	11/11/25	JT	CP13206	7W17829.D	JE23790-4	11/21/25	TCH	4.5			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC721	11/11/25	JT	10.3	8	11/26/25	JT	10.5	1.9	Flow Controller
FC998	11/11/25	JT	10.5	8	11/26/25	JT	10.5	0	Flow Controller
FC1346	11/11/25	JT	10.5	8	11/26/25	JT	10.1	3.9	Flow Controller
FC1453	11/11/25	JT	10.5	8	11/26/25	JT	10.1	3.9	Flow Controller

SGS Bottle Order(s):
EN-11525-210

Prep Date	Room Temp(F)	Bar Pres "Hg
11/11/25	70	29.92

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: JE23790

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE23790-1 SS-7	Collected: 18-NOV-25 19:10 By: LM		Received: 20-NOV-25 By: JR			
JE23790-1	TO-15	24-NOV-25 17:15	BK			VTO15NYSVLL
JE23790-2 IA-7	Collected: 18-NOV-25 19:12 By: LM		Received: 20-NOV-25 By: JR			
JE23790-2	TO-15	25-NOV-25 01:26	WC			VTO15NYLL
JE23790-3 SS-8	Collected: 18-NOV-25 19:15 By: LM		Received: 20-NOV-25 By: JR			
JE23790-3	TO-15	24-NOV-25 17:58	BK			VTO15NYSVLL
JE23790-4 IA-8	Collected: 18-NOV-25 19:18 By: LM		Received: 20-NOV-25 By: JR			
JE23790-4	TO-15	25-NOV-25 02:13	WC			VTO15NYLL

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-MB	7W18769.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-MB	7W18769.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-MB	7W18769.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	86%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-BS	7W18766.D	1	11/24/25	WC	n/a	n/a	V7W655
V7W655-BSD	7W18767.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.7	103	10.6	102	1	70-130/30
106-99-0	1,3-Butadiene	10.3	9.9	96	10.1	98	2	70-130/30
71-43-2	Benzene	10.4	7.5	72	7.9	76	5	70-130/30
75-27-4	Bromodichloromethane	9.9	9.6	97	10.0	101	4	70-130/30
75-25-2	Bromoform	10.6	12.8	121	13.1	124	2	70-130/30
74-83-9	Bromomethane	10.2	10	98	10.0	98	0	70-130/30
593-60-2	Bromoethene	10.1	10.4	103	10.4	103	0	70-130/30
100-44-7	Benzyl Chloride	10.5	9.9	94	10.2	97	3	70-130/30
75-15-0	Carbon disulfide	10.6	9.0	85	8.9	84	1	70-130/30
108-90-7	Chlorobenzene	10.9	10.6	97	10.9	100	3	70-130/30
75-00-3	Chloroethane	10	9.3	93	9.2	92	1	70-130/30
67-66-3	Chloroform	10.5	9.7	92	9.8	93	1	70-130/30
74-87-3	Chloromethane	10.6	10.0	94	9.8	92	2	70-130/30
107-05-1	3-Chloropropene	10.2	8.3	81	8.5	83	2	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.6	102	11.0	106	4	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.2	110	11.6	114	4	70-130/30
110-82-7	Cyclohexane	10.4	8.3	80	8.6	83	4	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.9	97	9.9	97	0	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.4	97	10.4	97	0	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	10.8	98	10.7	97	1	70-130/30
107-06-2	1,2-Dichloroethane	10.2	9.6	94	10.3	101	7	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.0	87	9.6	93	6	70-130/30
123-91-1	1,4-Dioxane	9.9	8.4	85	8.7	88	4	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.3	107	11.2	106	1	70-130/30
124-48-1	Dibromochloromethane	10.4	12.5	120	12.2	117	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	9.3	91	9.3	91	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	9.0	87	9.1	88	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	8.6	85	9.0	89	5	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.8	103	11.0	105	2	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.0	103	11.3	106	3	70-130/30
106-46-7	p-Dichlorobenzene	10.8	11.1	103	11.2	104	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	8.8	92	9.1	95	3	70-130/30
64-17-5	Ethanol	9.7	8.6	89	8.4	87	2	70-130/30
100-41-4	Ethylbenzene	11	10	91	10.3	94	3	70-130/30
141-78-6	Ethyl Acetate	10.5	9.6	91	9.7	92	1	70-130/30
622-96-8	4-Ethyltoluene	10.6	10.3	97	10.6	100	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-BS	7W18766.D	1	11/24/25	WC	n/a	n/a	V7W655
V7W655-BSD	7W18767.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.7	110	11.7	110	0	70-130/30
76-14-2	Freon 114	10.4	10.3	99	10.2	98	1	70-130/30
142-82-5	Heptane	10.4	8.0	77	9.0	87	12	70-130/30
87-68-3	Hexachlorobutadiene	11.7	12.1	103	12.7	109	5	70-130/30
110-54-3	Hexane	10.5	9.5	90	9.9	94	4	70-130/30
591-78-6	2-Hexanone	10.4	8.3	80	8.2	79	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	10.3	98	10.1	96	2	70-130/30
75-09-2	Methylene chloride	10.2	8.7	85	8.6	84	1	70-130/30
78-93-3	Methyl ethyl ketone	10.4	7.6	73	7.8	75	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	8.7	85	9.4	92	8	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	8.6	82	8.6	82	0	70-130/30
80-62-6	Methylmethacrylate	10.3	7.9	77	8.5	83	7	70-130/30
91-20-3	Naphthalene	11.8	14.6	124	14.9	126	2	70-130/30
115-07-1	Propylene	10.6	7.6	72	7.5	71	1	70-130/30
100-42-5	Styrene	10.9	10.2	94	10.6	97	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.2	98	10.7	103	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	9.2	84	9.4	85	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	9.0	86	9.4	90	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	12.9	110	13.2	113	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.1	102	11.2	103	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	10.5	98	10.7	100	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.0	88	9.8	96	9	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	8.3	86	8.6	90	4	70-130/30
127-18-4	Tetrachloroethylene	10.7	11.9	111	11.6	108	3	70-130/30
109-99-9	Tetrahydrofuran	9.7	7.3	75	7.6	78	4	70-130/30
108-88-3	Toluene	10.6	9.3	88	9.3	88	0	70-130/30
79-01-6	Trichloroethylene	9.9	9.2	93	9.6	97	4	70-130/30
75-69-4	Trichlorofluoromethane	10.1	11.8	117	11.7	116	1	70-130/30
75-01-4	Vinyl chloride	10.2	9.8	96	9.9	97	1	70-130/30
108-05-4	Vinyl Acetate	10.2	7.8	76	8.1	79	4	70-130/30
	m,p-Xylene	21.2	19.6	92	20.1	95	3	70-130/30
95-47-6	o-Xylene	11	10.4	95	10.6	96	2	70-130/30
1330-20-7	Xylenes (total)	32.2	30.0	93	30.7	95	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-BS	7W18766.D	1	11/24/25	WC	n/a	n/a	V7W655
V7W655-BSD	7W18767.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	94%	94%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.2	98	9.9	95	3	70-130/30
106-99-0	1,3-Butadiene	10.3	10.8	105	10.5	102	3	70-130/30
71-43-2	Benzene	10.4	11.0	106	10.8	104	2	70-130/30
75-27-4	Bromodichloromethane	9.9	11.1	112	11.1	112	0	70-130/30
75-25-2	Bromoform	10.6	13.5	127	13.2	125	2	70-130/30
74-83-9	Bromomethane	10.2	11.6	114	11.5	113	1	70-130/30
593-60-2	Bromoethene	10.1	11.9	118	11.7	116	2	70-130/30
100-44-7	Benzyl Chloride	10.5	13.2	126	13.2	126	0	70-130/30
75-15-0	Carbon disulfide	10.6	10.8	102	10.6	100	2	70-130/30
108-90-7	Chlorobenzene	10.9	12.0	110	11.9	109	1	70-130/30
75-00-3	Chloroethane	10	9.8	98	9.8	98	0	70-130/30
67-66-3	Chloroform	10.5	11.4	109	11.2	107	2	70-130/30
74-87-3	Chloromethane	10.6	9.7	92	9.6	91	1	70-130/30
107-05-1	3-Chloropropene	10.2	9.8	96	9.7	95	1	70-130/30
95-49-8	2-Chlorotoluene	10.4	11.4	110	11.3	109	1	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.4	112	11.4	112	0	70-130/30
110-82-7	Cyclohexane	10.4	10.9	105	10.7	103	2	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.7	95	9.6	94	1	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.6	99	10.2	95	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	12.8	116	12.3	112	4	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.9	107	10.7	105	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.1	88	9.1	88	0	70-130/30
123-91-1	1,4-Dioxane	9.9	10.9	110	11.0	111	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.8	111	11.2	106	5	70-130/30
124-48-1	Dibromochloromethane	10.4	12.3	118	11.8	113	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	10.2	100	10.1	99	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10	96	9.9	95	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	10.2	101	1	70-130/30
541-73-1	m-Dichlorobenzene	10.5	13.0	124	12.8	122	2	70-130/30
95-50-1	o-Dichlorobenzene	10.7	12.4	116	12.0	112	3	70-130/30
106-46-7	p-Dichlorobenzene	10.8	12.1	112	11.9	110	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.6	100	1	70-130/30
64-17-5	Ethanol	9.7	11.4	118	10.7	110	6	70-130/30
100-41-4	Ethylbenzene	11	12.1	110	11.8	107	3	70-130/30
141-78-6	Ethyl Acetate	10.5	12.5	119	12.1	115	3	70-130/30
622-96-8	4-Ethyltoluene	10.6	13.0	123	12.8	121	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	12.3	118	12.0	115	2	70-130/30
142-82-5	Heptane	10.4	9.4	90	9.4	90	0	70-130/30
87-68-3	Hexachlorobutadiene	11.7	13.7	117	13.6	116	1	70-130/30
110-54-3	Hexane	10.5	9.9	94	9.7	92	2	70-130/30
591-78-6	2-Hexanone	10.4	12.0	115	11.6	112	3	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.5	90	9.2	88	3	70-130/30
75-09-2	Methylene chloride	10.2	9.8	96	9.5	93	3	70-130/30
78-93-3	Methyl ethyl ketone	10.4	12.5	120	12.2	117	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	11.3	111	11.4	112	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10.3	98	10.2	97	1	70-130/30
80-62-6	Methylmethacrylate	10.3	11.3	110	11.2	109	1	70-130/30
91-20-3	Naphthalene	11.8	13.6	115	13.4	114	1	70-130/30
115-07-1	Propylene	10.6	9.5	90	9.0	85	5	70-130/30
100-42-5	Styrene	10.9	12.5	115	12.2	112	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	11.3	109	11.0	106	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	12.4	113	12.1	110	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	11.2	107	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	13.5	115	13.1	112	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	13.3	122	13.0	119	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.6	108	11.4	107	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	10.4	102	10.6	104	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	10.2	106	9.7	101	5	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.5	117	3	70-130/30
109-99-9	Tetrahydrofuran	9.7	11.4	118	11.0	113	4	70-130/30
108-88-3	Toluene	10.6	10.6	100	10.8	102	2	70-130/30
79-01-6	Trichloroethylene	9.9	11.1	112	11.1	112	0	70-130/30
75-69-4	Trichlorofluoromethane	10.1	11.7	116	12.8	127	9	70-130/30
75-01-4	Vinyl chloride	10.2	10.8	106	10.7	105	1	70-130/30
108-05-4	Vinyl Acetate	10.2	11.4	112	11.3	111	1	70-130/30
	m,p-Xylene	21.2	23.5	111	23.4	110	0	70-130/30
95-47-6	o-Xylene	11	12.4	113	12.0	109	3	70-130/30
1330-20-7	Xylenes (total)	32.2	35.9	111	35.4	110	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	8.8	85	8.5	82	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.4	82	8.1	79	4	70-130/30
71-43-2	Benzene	10.4	9.8	94	9.6	92	2	70-130/30
75-27-4	Bromodichloromethane	9.9	10.3	104	10.1	102	2	70-130/30
75-25-2	Bromoform	10.6	15.4	145* [a]	15.1	142* [a]	2	70-130/30
74-83-9	Bromomethane	10.2	9.6	94	9.3	91	3	70-130/30
593-60-2	Bromoethene	10.1	10	99	9.7	96	3	70-130/30
100-44-7	Benzyl Chloride	10.5	9.9	94	9.7	92	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.1	86	9.0	85	1	70-130/30
108-90-7	Chlorobenzene	10.9	10.8	99	10.7	98	1	70-130/30
75-00-3	Chloroethane	10	8.5	85	8.3	83	2	70-130/30
67-66-3	Chloroform	10.5	10.3	98	10.1	96	2	70-130/30
74-87-3	Chloromethane	10.6	8.4	79	8.1	76	4	70-130/30
107-05-1	3-Chloropropene	10.2	8.8	86	8.6	84	2	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.6	102	10.6	102	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	10.7	105	10.5	103	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.1	97	3	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.5	93	9.1	89	4	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.0	93	9.8	92	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.3	103	11.0	100	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	9.4	92	9.2	90	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.9	96	9.6	93	3	70-130/30
123-91-1	1,4-Dioxane	9.9	10.3	104	10.0	101	3	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.7	101	10.2	96	5	70-130/30
124-48-1	Dibromochloromethane	10.4	11.7	113	11.5	111	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	8.8	86	8.6	84	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.1	97	9.8	94	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	9.9	98	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.6	101	10.5	100	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	10.6	99	10.6	99	0	70-130/30
106-46-7	p-Dichlorobenzene	10.8	10.8	100	10.9	101	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.5	99	2	70-130/30
64-17-5	Ethanol	9.7	8.7	90	8.4	87	4	70-130/30
100-41-4	Ethylbenzene	11	10.9	99	10.8	98	1	70-130/30
141-78-6	Ethyl Acetate	10.5	9.6	91	9.6	91	0	70-130/30
622-96-8	4-Ethyltoluene	10.6	10.8	102	10.7	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.2	106	11.0	104	2	70-130/30
76-14-2	Freon 114	10.4	10.1	97	9.8	94	3	70-130/30
142-82-5	Heptane	10.4	9.6	92	9.3	89	3	70-130/30
87-68-3	Hexachlorobutadiene	11.7	18.9	162* [a]	18.9	162* [a]	0	70-130/30
110-54-3	Hexane	10.5	9.5	90	9.2	88	3	70-130/30
591-78-6	2-Hexanone	10.4	8.5	82	8.4	81	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.0	86	8.8	84	2	70-130/30
75-09-2	Methylene chloride	10.2	9.0	88	8.8	86	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.6	92	9.3	89	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	8.9	87	8.8	86	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	9.6	91	9.3	89	3	70-130/30
80-62-6	Methylmethacrylate	10.3	10	97	9.7	94	3	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10	94	9.5	90	5	70-130/30
100-42-5	Styrene	10.9	11.1	102	11.1	102	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.3	99	10.1	97	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	10.8	98	10.7	97	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	10.8	103	10.5	100	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.3	139* [a]	16.3	139* [a]	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.1	102	11.1	102	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	10.8	101	10.8	101	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.4	92	9.2	90	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.2	75	7.1	74	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.7	119	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.2	95	4	70-130/30
108-88-3	Toluene	10.6	10.5	99	10.3	97	2	70-130/30
79-01-6	Trichloroethylene	9.9	10	101	9.7	98	3	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.3	102	10.0	99	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.4	82	8.2	80	2	70-130/30
108-05-4	Vinyl Acetate	10.2	9.8	96	9.6	94	2	70-130/30
	m,p-Xylene	21.2	21.0	99	20.7	98	1	70-130/30
95-47-6	o-Xylene	11	11.0	100	10.9	99	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.0	99	31.6	98	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	99%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	9.2	88	8.9	86	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.7	84	8.5	83	2	70-130/30
71-43-2	Benzene	10.4	9.9	95	9.8	94	1	70-130/30
75-27-4	Bromodichloromethane	9.9	10.6	107	10.3	104	3	70-130/30
75-25-2	Bromoform	10.6	16.0	151* [a]	15.9	150* [a]	1	70-130/30
74-83-9	Bromomethane	10.2	9.8	96	9.6	94	2	70-130/30
593-60-2	Bromoethene	10.1	10.2	101	10.0	99	2	70-130/30
100-44-7	Benzyl Chloride	10.5	10.5	100	10.3	98	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.4	89	9.3	88	1	70-130/30
108-90-7	Chlorobenzene	10.9	11.0	101	10.9	100	1	70-130/30
75-00-3	Chloroethane	10	9.0	90	8.8	88	2	70-130/30
67-66-3	Chloroform	10.5	10.6	101	10.4	99	2	70-130/30
74-87-3	Chloromethane	10.6	8.7	82	8.5	80	2	70-130/30
107-05-1	3-Chloropropene	10.2	9.1	89	8.8	86	3	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.8	104	10.8	104	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.1	109	10.9	107	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.3	99	1	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.8	96	10	98	2	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.4	97	10.1	94	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.6	105	11.3	103	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.1	99	9.8	96	3	70-130/30
78-87-5	1,2-Dichloropropane	10.3	10.3	100	10.1	98	2	70-130/30
123-91-1	1,4-Dioxane	9.9	10.8	109	10.4	105	4	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.6	100	10.4	98	2	70-130/30
124-48-1	Dibromochloromethane	10.4	12.2	117	11.9	114	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	9.0	88	8.7	85	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.3	99	10.1	97	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.4	103	10.2	101	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.8	103	10.8	103	0	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.1	104	10.9	102	2	70-130/30
106-46-7	p-Dichlorobenzene	10.8	11.1	103	10.9	101	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	10.1	105	9.9	103	2	70-130/30
64-17-5	Ethanol	9.7	7.7	79	7.5	77	3	70-130/30
100-41-4	Ethylbenzene	11	11.2	102	11.1	101	1	70-130/30
141-78-6	Ethyl Acetate	10.5	10.2	97	10.1	96	1	70-130/30
622-96-8	4-Ethyltoluene	10.6	11.0	104	11.0	104	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	10.4	100	10.2	98	2	70-130/30
142-82-5	Heptane	10.4	9.8	94	9.6	92	2	70-130/30
87-68-3	Hexachlorobutadiene	11.7	19.6	168* [a]	19.1	163* [a]	3	70-130/30
110-54-3	Hexane	10.5	9.7	92	9.6	91	1	70-130/30
591-78-6	2-Hexanone	10.4	9.2	88	9.1	88	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.7	92	9.3	89	4	70-130/30
75-09-2	Methylene chloride	10.2	9.2	90	9.0	88	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.8	94	9.5	91	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	9.5	93	9.4	92	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10	95	9.8	93	2	70-130/30
80-62-6	Methylmethacrylate	10.3	10.3	100	10.1	98	2	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10.2	96	9.9	93	3	70-130/30
100-42-5	Styrene	10.9	11.4	105	11.4	105	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.8	104	10.5	101	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	11.2	102	11.1	101	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	10.9	104	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.6	142* [a]	16.4	140* [a]	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.5	106	11.3	104	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.2	105	11.1	104	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.7	95	9.4	92	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.8	81	7.7	80	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	13.7	128	13.4	125	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.6	99	0	70-130/30
108-88-3	Toluene	10.6	10.8	102	10.5	99	3	70-130/30
79-01-6	Trichloroethylene	9.9	10.1	102	10	101	1	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.7	106	10.4	103	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.9	87	8.7	85	2	70-130/30
108-05-4	Vinyl Acetate	10.2	10.2	100	9.9	97	3	70-130/30
	m,p-Xylene	21.2	21.4	101	21.3	100	0	70-130/30
95-47-6	o-Xylene	11	11.2	102	11.1	101	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.6	101	32.4	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	155		157		1	25
106-99-0	1,3-Butadiene	ND [a]		ND		nc	25
71-43-2	Benzene	0.28 [a]		ND		200* [b]	25
75-27-4	Bromodichloromethane	ND [a]		ND		nc	25
75-25-2	Bromoform	ND [a]		ND		nc	25
74-83-9	Bromomethane	ND [a]		ND		nc	25
593-60-2	Bromoethene	ND [a]		ND		nc	25
100-44-7	Benzyl Chloride	ND [a]		ND		nc	25
75-15-0	Carbon disulfide	ND [a]		ND		nc	25
108-90-7	Chlorobenzene	ND [a]		ND		nc	25
75-00-3	Chloroethane	ND [a]		ND		nc	25
67-66-3	Chloroform	0.24 [a]		ND		200* [b]	25
74-87-3	Chloromethane	0.11 [a]		ND		200* [b]	25
107-05-1	3-Chloropropene	ND [a]		ND		nc	25
95-49-8	2-Chlorotoluene	ND [a]		ND		nc	25
56-23-5	Carbon tetrachloride	ND [a]		ND		nc	25
110-82-7	Cyclohexane	0.18 [a]		ND		200* [b]	25
75-34-3	1,1-Dichloroethane	ND [a]		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND [a]		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND [a]		ND		nc	25
107-06-2	1,2-Dichloroethane	ND [a]		ND		nc	25
78-87-5	1,2-Dichloropropane	ND [a]		ND		nc	25
123-91-1	1,4-Dioxane	ND [a]		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.50 [a]		0.51	J	2	25
124-48-1	Dibromochloromethane	ND [a]		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND [a]		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND [a]		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND [a]		ND		nc	25
541-73-1	m-Dichlorobenzene	0.23 [a]		ND		200* [b]	25
95-50-1	o-Dichlorobenzene	ND [a]		ND		nc	25
106-46-7	p-Dichlorobenzene	ND [a]		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND [a]		ND		nc	25
64-17-5	Ethanol	205		209		2	25
100-41-4	Ethylbenzene	0.14 [a]		ND		200* [b]	25
141-78-6	Ethyl Acetate	17.7 [a]		16.3		8	25
622-96-8	4-Ethyltoluene	ND [a]		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND [a]		ND		nc	25
76-14-2	Freon 114	ND [a]		ND		nc	25
142-82-5	Heptane	5.6 [a]		5.1		9	25
87-68-3	Hexachlorobutadiene	ND [a]		ND		nc	25
110-54-3	Hexane	0.34 [a]		ND		200* [b]	25
591-78-6	2-Hexanone	ND [a]		ND		nc	25
67-63-0	Isopropyl Alcohol	11.9 [a]		12.5		5	25
75-09-2	Methylene chloride	0.27 [a]		ND		200* [b]	25
78-93-3	Methyl ethyl ketone	2.0 [a]		1.7		16	25
108-10-1	Methyl Isobutyl Ketone	ND [a]		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND [a]		ND		nc	25
80-62-6	Methylmethacrylate	4.9 [a]		4.6		6	25
91-20-3	Naphthalene	ND [a]		ND		nc	25
115-07-1	Propylene	ND [a]		ND		nc	25
100-42-5	Styrene	ND [a]		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND [a]		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND [a]		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND [a]		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND [a]		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND [a]		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND [a]		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	3.1 [a]		3.4		9	25
127-18-4	Tetrachloroethylene	0.76 [a]		0.80		5	25
109-99-9	Tetrahydrofuran	0.14 [a]		ND		200* [b]	25
108-88-3	Toluene	1.1 [a]		1.1		0	25
79-01-6	Trichloroethylene	ND [a]		ND		nc	25
75-69-4	Trichlorofluoromethane	1.0 [a]		1.0		0	25
75-01-4	Vinyl chloride	ND [a]		ND		nc	25
108-05-4	Vinyl Acetate	1.1 [a]		0.85		26* [c]	25
	m,p-Xylene	0.44 [a]		ND		200* [b]	25
95-47-6	o-Xylene	0.17 [a]		ND		200* [b]	25
1330-20-7	Xylenes (total)	0.61 [a]		ND		200* [b]	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-1, JE23790-3

CAS No.	Surrogate Recoveries	DUP	JE23789-3	JE23789-3	Limits
460-00-4	4-Bromofluorobenzene	109%	108%	109%	65-128%

(a) Result is from Run #2.
(b) RPD acceptable due to low DUP and sample concentrations.
(c) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23787-3DUP	7W18777.D	1	11/24/25	WC	n/a	n/a	V7W655
JE23787-3	7W18776.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Compound	JE23787-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	2.2		2.2		0	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.45	J	0.45	J	0	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	0.47		0.44	J	7	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	4.6		4.0		14	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	4.0		4.1		2	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23787-3DUP	7W18777.D	1	11/24/25	WC	n/a	n/a	V7W655
JE23787-3	7W18776.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Compound	JE23787-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	0.46	J	0.41	J	11	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	1.6		1.5		6	25
75-09-2	Methylene chloride	0.53	J	0.54	J	2	25
78-93-3	Methyl ethyl ketone	ND		ND		nc	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
91-20-3	Naphthalene	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	53.4		55.6		4	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	ND		ND		nc	25
79-01-6	Trichloroethylene	0.87		0.75		15	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23787-3DUP	7W18777.D	1	11/24/25	WC	n/a	n/a	V7W655
JE23787-3	7W18776.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23790-2, JE23790-4

CAS No.	Surrogate Recoveries	DUP	JE23787-3	Limits
460-00-4	4-Bromofluorobenzene	92%	87%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23790-3(A1703)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23790-3(A1703)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23790-3(A1703)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Summa Cleaning Certification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23790-1(A259), JE23790-2(A1705), JE23790-4(A748)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23790-1(A259), JE23790-2(A1705), JE23790-4(A748)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23790-1(A259), JE23790-2(A1705), JE23790-4(A748)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Instrument Performance Check (BFB)

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-BFB
Lab File ID: 5W59768.D
Instrument ID: GCMS5W
Injection Date: 11/06/25
Injection Time: 21:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	135749	18.8		Pass
75	30.0 - 66.0% of mass 95	334528	46.4		Pass
95	Base peak, 100% relative abundance	720341	100.0		Pass
96	5.0 - 9.0% of mass 95	49469	6.87		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	662677	92.0		Pass
175	4.0 - 9.01% of mass 174	51795	7.19	(7.82) [a]	Pass
176	93.0 - 101.0% of mass 174	657579	91.3	(99.2) [a]	Pass
177	5.0 - 9.0% of mass 176	45267	6.28	(6.88) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2292-IC2292	5W59769.D	11/06/25	22:35	00:36	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25	23:11	01:12	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25	23:50	01:51	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25	03:41	05:42	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25	06:57	08:58	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25	07:33	09:34	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25	08:12	10:13	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25	08:54	10:55	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25	09:38	11:39	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25	10:24	12:25	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25	12:25	14:26	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2301-BFB
Lab File ID: 5W60000.D
Instrument ID: GCMS5W
Injection Date: 11/24/25
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	126995	16.6		Pass
75	30.0 - 66.0% of mass 95	346987	45.5		Pass
95	Base peak, 100% relative abundance	763029	100.0		Pass
96	5.0 - 9.0% of mass 95	51400	6.74		Pass
173	Less than 2.0% of mass 174	6908	0.91	(0.88) [a]	Pass
174	50.0 - 120.0% of mass 95	783595	102.7		Pass
175	4.0 - 9.01% of mass 174	58229	7.63	(7.43) [a]	Pass
176	93.0 - 101.0% of mass 174	761195	99.8	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	50824	6.66	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2301-CC2292	5W60001.D	11/24/25	09:49	00:37	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25	12:02	02:50	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25	12:39	03:27	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25	14:27	05:15	Method Blank
ZZZZZZ	5W60006.D	11/24/25	15:18	06:06	(unrelated sample)
JE23789-3	5W60007.D	11/24/25	15:56	06:44	(used for QC only; not part of job JE23790)
JE23789-3DUP	5W60008.D	11/24/25	16:33	07:21	Duplicate
JE23790-1	5W60009.D	11/24/25	17:15	08:03	SS-7
JE23790-3	5W60010.D	11/24/25	17:58	08:46	SS-8
ZZZZZZ	5W60011.D	11/24/25	18:41	09:29	(unrelated sample)
ZZZZZZ	5W60012.D	11/24/25	19:25	10:13	(unrelated sample)
ZZZZZZ	5W60013.D	11/24/25	20:08	10:56	(unrelated sample)
ZZZZZZ	5W60014.D	11/24/25	20:52	11:40	(unrelated sample)
ZZZZZZ	5W60015.D	11/24/25	21:35	12:23	(unrelated sample)
ZZZZZZ	5W60016.D	11/24/25	22:19	13:07	(unrelated sample)
ZZZZZZ	5W60017.D	11/24/25	23:02	13:50	(unrelated sample)
ZZZZZZ	5W60018.D	11/24/25	23:46	14:34	(unrelated sample)
ZZZZZZ	5W60019.D	11/25/25	00:29	15:17	(unrelated sample)
ZZZZZZ	5W60020.D	11/25/25	01:14	16:02	(unrelated sample)
ZZZZZZ	5W60021.D	11/25/25	01:58	16:46	(unrelated sample)
ZZZZZZ	5W60022.D	11/25/25	02:43	17:31	(unrelated sample)
ZZZZZZ	5W60023.D	11/25/25	03:27	18:15	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25	04:12	19:00	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25	05:54	20:42	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2301-BFB	**Injection Date:**	11/24/25
Lab File ID:	5W60000.D	**Injection Time:**	09:12
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W60027.D	11/25/25	06:37	21:25	(unrelated sample)
JE23789-3	5W60028.D	11/25/25	07:20	22:08	(used for QC only; not part of job JE23790)
ZZZZZZ	5W60029.D	11/25/25	07:57	22:45	(unrelated sample)
ZZZZZZ	5W60030.D	11/25/25	08:34	23:22	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-BFB
Lab File ID: 7W16573.D
Instrument ID: GCMS7W
Injection Date: 08/07/25
Injection Time: 02:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	26979	21.8		Pass
75	30.0 - 66.0% of mass 95	60811	49.0		Pass
95	Base peak, 100% relative abundance	123992	100.0		Pass
96	5.0 - 9.0% of mass 95	7953	6.41		Pass
173	Less than 2.0% of mass 174	724	0.58	(0.83) [a]	Pass
174	50.0 - 120.0% of mass 95	87088	70.2		Pass
175	4.0 - 9.01% of mass 174	6502	5.24	(7.47) [a]	Pass
176	93.0 - 101.0% of mass 174	87355	70.5	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	5835	4.71	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W577-IC577	7W16576.D	08/07/25	04:00	01:55	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25	04:38	02:33	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25	08:36	06:31	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25	09:13	07:08	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25	12:29	10:24	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25	13:07	11:02	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25	13:47	11:42	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25	14:30	12:25	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25	15:15	13:10	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25	16:02	13:57	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25	18:07	16:02	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W613-BFB
Lab File ID: 7W17472.D
Instrument ID: GCMS7W
Injection Date: 09/26/25
Injection Time: 10:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	24211	19.5		Pass
75	30.0 - 66.0% of mass 95	60491	48.8		Pass
95	Base peak, 100% relative abundance	124040	100.0		Pass
96	5.0 - 9.0% of mass 95	8048	6.49		Pass
173	Less than 2.0% of mass 174	644	0.52	(0.57) [a]	Pass
174	50.0 - 120.0% of mass 95	113392	91.4		Pass
175	4.0 - 9.01% of mass 174	8039	6.48	(7.09) [a]	Pass
176	93.0 - 101.0% of mass 174	109491	88.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7193	5.80	(6.57) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W613-CC577	7W17473.D	09/26/25	11:04	00:39	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25	11:54	01:29	Blank Spike
V7W613-BSD	7W17475.D	09/26/25	12:32	02:07	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25	14:01	03:36	Method Blank
ZZZZZZ	7W17478.D	09/26/25	15:51	05:26	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25	16:43	06:18	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25	17:30	07:05	(unrelated sample)
JE19193-2	7W17481.D	09/26/25	18:21	07:56	(used for QC only; not part of job JE23790)
JE19193-2DUP	7W17482.D	09/26/25	19:09	08:44	Duplicate
V7W613-SCC	7W17483.D	09/26/25	19:55	09:30	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25	20:38	10:13	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25	21:22	10:57	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25	22:06	11:41	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25	22:50	12:25	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25	23:33	13:08	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25	00:13	13:48	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25	00:52	14:27	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25	01:31	15:06	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25	02:11	15:46	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25	02:50	16:25	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25	03:29	17:04	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25	04:08	17:43	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25	04:48	18:23	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W624-BFB	**Injection Date:**	10/13/25
Lab File ID:	7W17800.D	**Injection Time:**	10:41
Instrument ID:	GCMS7W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	32653	19.8		Pass
75	30.0 - 66.0% of mass 95	83059	50.4		Pass
95	Base peak, 100% relative abundance	164693	100.0		Pass
96	5.0 - 9.0% of mass 95	10435	6.34		Pass
173	Less than 2.0% of mass 174	1376	0.84	(0.93) [a]	Pass
174	50.0 - 120.0% of mass 95	148181	90.0		Pass
175	4.0 - 9.01% of mass 174	10927	6.63	(7.37) [a]	Pass
176	93.0 - 101.0% of mass 174	148821	90.4	(100.4) [a]	Pass
177	5.0 - 9.0% of mass 176	9210	5.59	(6.19) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W624-CC577	7W17801.D	10/13/25	11:18	00:37	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25	12:00	01:19	Blank Spike
V7W624-BSD	7W17803.D	10/13/25	12:37	01:56	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25	14:03	03:22	Method Blank
ZZZZZZ	7W17806.D	10/13/25	15:24	04:43	(unrelated sample)
JE20702-1	7W17807.D	10/13/25	16:09	05:28	(used for QC only; not part of job JE23790)
JE20702-1DUP	7W17808.D	10/13/25	16:55	06:14	Duplicate
ZZZZZZ	7W17809.D	10/13/25	17:45	07:04	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25	18:38	07:57	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25	19:25	08:44	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25	20:14	09:33	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25	21:05	10:24	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25	21:58	11:17	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25	22:49	12:08	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25	23:42	13:01	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25	00:27	13:46	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25	01:14	14:33	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25	02:02	15:21	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25	02:51	16:10	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25	03:40	16:59	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25	04:19	17:38	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25	04:58	18:17	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25	05:38	18:57	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25	06:17	19:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W624-BFB	**Injection Date:**	10/13/25
Lab File ID:	7W17800.D	**Injection Time:**	10:41
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W17826.D	10/14/25	06:55	20:14	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25	07:39	20:58	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25	08:23	21:42	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25	09:07	22:26	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W655-BFB
Lab File ID: 7W18764.D
Instrument ID: GCMS7W
Injection Date: 11/24/25
Injection Time: 09:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	28461	21.0		Pass
75	30.0 - 66.0% of mass 95	64213	47.4		Pass
95	Base peak, 100% relative abundance	135381	100.0		Pass
96	5.0 - 9.0% of mass 95	8482	6.27		Pass
173	Less than 2.0% of mass 174	713	0.53	(0.67) [a]	Pass
174	50.0 - 120.0% of mass 95	106256	78.5		Pass
175	4.0 - 9.01% of mass 174	7559	5.58	(7.11) [a]	Pass
176	93.0 - 101.0% of mass 174	101904	75.3	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	6737	4.98	(6.61) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W655-CC577	7W18765.D	11/24/25	09:52	00:38	Continuing cal 10
V7W655-BS	7W18766.D	11/24/25	10:35	01:21	Blank Spike
V7W655-BSD	7W18767.D	11/24/25	11:15	02:01	Blank Spike Duplicate
V7W655-MB	7W18769.D	11/24/25	12:43	03:29	Method Blank
JE23787-3	7W18776.D	11/24/25	18:48	09:34	(used for QC only; not part of job JE23790)
JE23787-3DUP	7W18777.D	11/24/25	19:27	10:13	Duplicate
ZZZZZZ	7W18778.D	11/24/25	20:12	10:58	(unrelated sample)
ZZZZZZ	7W18779.D	11/24/25	20:56	11:42	(unrelated sample)
ZZZZZZ	7W18780.D	11/24/25	21:35	12:21	(unrelated sample)
ZZZZZZ	7W18781.D	11/24/25	22:19	13:05	(unrelated sample)
ZZZZZZ	7W18783.D	11/24/25	23:51	14:37	(unrelated sample)
ZZZZZZ	7W18784.D	11/25/25	00:38	15:24	(unrelated sample)
JE23790-2	7W18785.D	11/25/25	01:26	16:12	IA-7
JE23790-4	7W18786.D	11/25/25	02:13	16:59	IA-8
ZZZZZZ	7W18787.D	11/25/25	02:51	17:37	(unrelated sample)
ZZZZZZ	7W18788.D	11/25/25	03:31	18:17	(unrelated sample)
ZZZZZZ	7W18789.D	11/25/25	04:10	18:56	(unrelated sample)
ZZZZZZ	7W18790.D	11/25/25	04:50	19:36	(unrelated sample)
ZZZZZZ	7W18791.D	11/25/25	05:30	20:16	(unrelated sample)
ZZZZZZ	7W18792.D	11/25/25	06:09	20:55	(unrelated sample)
ZZZZZZ	7W18793.D	11/25/25	06:49	21:35	(unrelated sample)
ZZZZZZ	7W18794.D	11/25/25	07:36	22:22	(unrelated sample)
ZZZZZZ	7W18795.D	11/25/25	08:15	23:01	(unrelated sample)
ZZZZZZ	7W18796.D	11/25/25	08:52	23:38	(unrelated sample)

Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V5W2301-CC2292	**Injection Date:**	11/24/25
Lab File ID:	5W60001.D	**Injection Time:**	09:49
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	470220	7.35	2049823	9.21	1097928	13.53
Upper Limit [a]	658308	7.68	2869752	9.54	1537099	13.86
Lower Limit [b]	282132	7.02	1229894	8.88	658757	13.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2301-BS	477635	7.35	2106400	9.21	1093252	13.53
V5W2301-BSD	479179	7.35	2114849	9.21	1129270	13.53
V5W2301-MB	551412	7.35	2422137	9.21	1175032	13.53
ZZZZZZ	479276	7.34	2151488	9.20	1006479	13.53
JE23789-3	486262	7.35	2215300	9.21	1093617	13.53
JE23789-3DUP	490041	7.35	2190031	9.21	1089506	13.53
JE23790-1	467172	7.35	2081525	9.21	995730	13.53
JE23790-3	492269	7.35	2182901	9.21	1069119	13.53
ZZZZZZ	456556	7.35	2083658	9.21	1040810	13.53
ZZZZZZ	478467	7.35	2172826	9.21	1077180	13.53
ZZZZZZ	475205	7.35	2156975	9.21	973217	13.53
ZZZZZZ	468744	7.35	2166394	9.21	1085776	13.53
ZZZZZZ	474128	7.35	2121035	9.21	1035907	13.53
ZZZZZZ	481013	7.35	2162967	9.21	1070422	13.53
ZZZZZZ	475052	7.35	2137020	9.21	997545	13.53
ZZZZZZ	474848	7.36	2108916	9.21	1017029	13.53
ZZZZZZ	488279	7.35	2202107	9.21	1020272	13.53
ZZZZZZ	464538	7.35	2148688	9.21	1036446	13.53
ZZZZZZ	494809	7.34	2211542	9.20	1056914	13.53
ZZZZZZ	469833	7.35	2110422	9.21	1027988	13.53
ZZZZZZ	476461	7.35	2112621	9.21	1018512	13.53
ZZZZZZ	489936	7.35	2117411	9.21	1030226	13.53
ZZZZZZ	488795	7.35	2169845	9.21	1097700	13.53
ZZZZZZ	457379	7.35	2030446	9.21	965813	13.53
JE23789-3	487990	7.35	2191861	9.21	1085055	13.53
ZZZZZZ	467512	7.34	2049365	9.21	954808	13.53
ZZZZZZ	474173	7.35	2069410	9.21	971499	13.53

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W613-CC577	**Injection Date:**	09/26/25
Lab File ID:	7W17473.D	**Injection Time:**	11:04
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	116358	3.19	571811	4.45	520899	9.97
Upper Limit [a]	162901	3.52	800535	4.78	729259	10.30
Lower Limit [b]	69815	2.86	343087	4.12	312539	9.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W613-BS	117537	3.19	576557	4.45	537853	9.97
V7W613-BSD	119187	3.19	585415	4.45	537645	9.97
V7W613-MB	128174	3.19	642694	4.45	594320	9.96
ZZZZZZ	119787	3.19	602923	4.45	564591	9.96
ZZZZZZ	115596	3.19	572850	4.45	549268	9.97
ZZZZZZ	119426	3.19	598587	4.45	559501	9.97
JE19193-2	112064	3.19	565732	4.45	535025	9.96
JE19193-2DUP	119852	3.19	593173	4.45	552085	9.97
V7W613-SCC	122841	3.19	609530	4.45	568575	9.97
V7W613-SCC	123267	3.19	612589	4.45	566370	9.97
V7W613-SCC	124035	3.19	614922	4.45	572447	9.97
V7W613-SCC	122792	3.19	613182	4.45	569186	9.97
V7W613-SCC	123364	3.19	617156	4.45	570765	9.96
V7W613-SCC	121230	3.19	603406	4.45	557323	9.97
V7W613-SCC	124644	3.20	619956	4.46	573347	9.97
V7W613-SCC	122766	3.20	607988	4.46	562421	9.97
V7W613-SCC	122015	3.20	599456	4.46	558700	9.97
V7W613-SCC	123531	3.20	612393	4.46	566814	9.97
V7W613-SCC	121013	3.20	597047	4.46	554808	9.97
V7W613-SCC	125065	3.20	614767	4.46	568943	9.97
V7W613-SCC	124050	3.21	612021	4.46	566843	9.97
V7W613-SCC	122222	3.20	607269	4.46	565306	9.97

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W624-CC577	**Injection Date:**	10/13/25
Lab File ID:	7W17801.D	**Injection Time:**	11:18
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	133953	3.19	659891	4.45	616286	9.96
Upper Limit [a]	187534	3.52	923847	4.78	862800	10.29
Lower Limit [b]	80372	2.86	395935	4.12	369772	9.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W624-BS	130379	3.19	642815	4.45	599585	9.97
V7W624-BSD	133015	3.19	654252	4.45	606507	9.97
V7W624-MB	141808	3.19	703798	4.45	657479	9.96
ZZZZZZ	135394	3.21	669430	4.46	626248	9.97
JE20702-1	133082	3.19	664568	4.45	629037	9.96
JE20702-1DUP	127619	3.19	640507	4.45	607064	9.96
ZZZZZZ	128810	3.19	643176	4.45	605309	9.96
ZZZZZZ	125599	3.19	622159	4.45	593488	9.96
ZZZZZZ	127374	3.19	637226	4.45	604051	9.96
ZZZZZZ	125963	3.19	637764	4.45	602349	9.96
ZZZZZZ	131364	3.19	653605	4.45	609498	9.97
ZZZZZZ	123237	3.19	615381	4.45	583060	9.96
ZZZZZZ	131555	3.19	651668	4.45	604825	9.96
ZZZZZZ	123888	3.19	619782	4.45	585599	9.96
ZZZZZZ	122352	3.19	617796	4.45	579165	9.96
ZZZZZZ	122263	3.21	606145	4.46	576052	9.97
ZZZZZZ	123557	3.21	619493	4.46	584556	9.97
ZZZZZZ	129322	3.20	648769	4.46	605277	9.97
ZZZZZZ	130607	3.20	657333	4.46	618632	9.97
ZZZZZZ	127305	3.21	641300	4.46	595091	9.97
ZZZZZZ	132250	3.20	664281	4.46	620218	9.97
ZZZZZZ	131975	3.21	668505	4.46	623685	9.97
ZZZZZZ	127594	3.21	644592	4.46	596854	9.97
ZZZZZZ	133020	3.20	677172	4.46	625775	9.97
V7W624-SCC	133491	3.19	659279	4.45	611978	9.97
V7W624-SCC	139794	3.19	685797	4.45	636271	9.97
V7W624-SCC	138603	3.19	685964	4.45	631471	9.96

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W655-CC577	**Injection Date:**	11/24/25
Lab File ID:	7W18765.D	**Injection Time:**	09:52
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	121736	3.19	577477	4.45	541499	9.96
Upper Limit [a]	170430	3.52	808468	4.78	758099	10.29
Lower Limit [b]	73042	2.86	346486	4.12	324899	9.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W655-BS	127067	3.19	594082	4.45	555791	9.97
V7W655-BSD	130042	3.19	617828	4.45	553873	9.97
V7W655-MB	138916	3.19	676090	4.44	624942	9.96
JE23787-3	125572	3.20	614266	4.46	575048	9.97
JE23787-3DUP	115035	3.20	554330	4.46	518508	9.97
ZZZZZZ	120256	3.19	584824	4.45	543246	9.96
ZZZZZZ	124089	3.19	595770	4.44	555318	9.96
ZZZZZZ	113129	3.19	539200	4.45	506745	9.96
ZZZZZZ	117952	3.19	567591	4.45	499644	9.96
ZZZZZZ	116415	3.19	572502	4.45	539294	9.96
ZZZZZZ	117290	3.19	575492	4.45	539805	9.96
JE23790-2	120503	3.19	590940	4.45	532129	9.96
JE23790-4	123167	3.19	594551	4.44	551788	9.96
ZZZZZZ	116262	3.20	569094	4.46	530523	9.97
ZZZZZZ	112557	3.20	538439	4.46	504815	9.97
ZZZZZZ	116781	3.20	562065	4.46	525366	9.97
ZZZZZZ	113638	3.20	541141	4.46	509601	9.97
ZZZZZZ	113525	3.20	554247	4.46	495581	9.97
ZZZZZZ	112302	3.20	536415	4.46	531480	9.97
ZZZZZZ	116126	3.20	558979	4.46	503510	9.97
ZZZZZZ	117060	3.20	569058	4.46	505414	9.97
ZZZZZZ	108921	3.19	519858	4.45	488687	9.96
ZZZZZZ	106903	3.19	504722	4.44	474323	9.96

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.35	0.644	ok	0.638	0.578-0.698
Acrolein	4.62	7.35	0.629	ok	0.623	0.563-0.683
Acrylonitrile	5.11	7.35	0.695	ok	0.688	0.628-0.748
Acetonitrile	4.53	7.35	0.616	ok	0.611	0.551-0.671
1,3-Butadiene	3.93	7.35	0.535	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.40	13.53	1.138	ok	1.136	1.076-1.196
Bromodichloromethane	9.87	9.21	1.072	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.62	13.53	1.228	ok	1.225	1.165-1.285
n-Butylbenzene	17.33	13.53	1.281	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.45	13.53	1.216	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.49	7.35	1.019	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.54	7.35	0.754	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.10	9.21	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.44	7.35	0.876	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.45	13.53	0.920	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.80	9.21	1.281	ok	1.277	1.217-1.337
1,4-Dioxane	10.05	9.21	1.091	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.30	7.35	0.585	ok	0.583	0.523-0.643
Dibromochloromethane	12.18	13.53	0.900	ok	0.898	0.838-0.958
Dibromomethane	9.65	9.21	1.048	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.79	9.21	1.172	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.62	13.53	1.228	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.01	13.53	1.257	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.68	13.53	1.233	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.36	9.21	1.233	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.46	7.35	1.015	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.35	7.35	0.592	ok	0.589	0.529-0.649
Ethylbenzene	14.03	13.53	1.037	ok	1.034	0.974-1.094
Ethyl Acetate	7.21	7.35	0.981	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.25	13.53	0.905	ok	0.891	0.831-0.951
4-Ethyltoluene	16.00	13.53	1.183	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.38	7.35	0.460	ok	0.458	0.398-0.518
Freon 123	4.61	7.35	0.627	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.46	7.35	0.471	ok	0.468	0.408-0.528
Heptane	10.21	9.21	1.109	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.32	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.94	7.35	0.672	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.89	13.53	1.248	ok	1.246	1.186-1.306
Methyl Acrylate	7.40	7.35	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl Tert Butyl Ether	6.56	7.35	0.893	ok	0.884	0.824-0.944
alpha-Methylstyrene	16.25	13.53	1.201	ok	1.197	1.137-1.257
Naphthalene	18.73	13.53	1.384	ok	1.380	1.320-1.440
Nonane	14.94	13.53	1.104	ok	1.103	1.043-1.163
Octane	12.77	13.53	0.944	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.86	13.53	1.172	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.70	13.53	1.086	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.71	13.53	1.087	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.48	9.21	1.246	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.92	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.87	13.53	1.247	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.47	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.07	13.53	1.188	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Toluene	11.76	9.21	1.277	ok	1.273	1.213-1.333
Trichloroethylene	9.91	9.21	1.076	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.22	13.53	1.051	ok	1.048	0.988-1.108
o-Xylene	14.71	13.53	1.087	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.10	13.53	0.377	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	470818	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2113713	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1047801	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.09	7.35	0.693	ok	0.688	0.628-0.748
Acetonitrile	4.52	7.35	0.615	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.60	13.53	1.227	ok	1.225	1.165-1.285
n-Butylbenzene	17.29	13.53	1.278	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.44	13.53	1.215	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.43	13.53	0.919	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.79	9.21	1.280	ok	1.277	1.217-1.337
1,4-Dioxane	10.03	9.21	1.089	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.17	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.78	9.21	1.170	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.60	13.53	1.227	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.00	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.67	13.53	1.232	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.33	9.21	1.230	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.45	7.35	1.014	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.02	13.53	1.036	ok	1.034	0.974-1.094
Ethyl Acetate	7.54	7.35	1.026	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.12	13.53	0.896	ok	0.891	0.831-0.951
4-Ethyltoluene	15.98	13.53	1.181	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.20	9.21	1.107	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.51	7.35	1.022	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.92	7.35	0.941	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.96	9.21	1.190	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.55	7.35	0.891	ok	0.884	0.824-0.944
Methylmethacrylate	10.22	9.21	1.110	ok	1.100	1.040-1.160
alpha-Methylstyrene	16.23	13.53	1.200	ok	1.197	1.137-1.257
Naphthalene	18.70	13.53	1.382	ok	1.380	1.320-1.440

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.76	13.53	0.943	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.85	13.53	1.171	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.62	13.53	1.081	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.91	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.46	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Tetrahydrofuran	7.97	7.35	1.084	ok	1.072	1.012-1.132
Toluene	11.75	9.21	1.276	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.20	13.53	1.050	ok	1.048	0.988-1.108
o-Xylene	14.70	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	483296	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2143191	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1063437	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.08	7.35	0.691	ok	0.688	0.628-0.748
Acetonitrile	4.51	7.35	0.614	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.26	13.53	1.054	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.59	13.53	1.226	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.41	13.53	0.917	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.78	9.21	1.279	ok	1.277	1.217-1.337
1,4-Dioxane	10.00	9.21	1.086	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.77	9.21	1.169	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.99	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.31	9.21	1.228	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.44	7.35	1.012	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.00	13.53	1.035	ok	1.034	0.974-1.094
Ethyl Acetate	7.50	7.35	1.020	ok	1.010	0.950-1.070
Ethyl Acrylate	9.80	9.21	1.064	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.08	13.53	0.893	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.17	13.53	0.899	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.49	7.35	1.019	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.90	7.35	0.939	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.89	9.21	1.182	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.54	7.35	0.890	ok	0.884	0.824-0.944
Methylmethacrylate	10.17	9.21	1.104	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.22	13.53	1.199	ok	1.197	1.137-1.257
Naphthalene	18.68	13.53	1.381	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.83	13.53	1.170	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.60	13.53	1.079	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.90	13.53	1.397	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.84	13.53	1.097	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.53	1.216	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.46	7.35	0.743	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.95	7.35	1.082	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.62	7.35	0.901	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.53	1.049	ok	1.048	0.988-1.108
o-Xylene	14.69	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	467597	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2126307	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1045384	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.71	7.35	0.641	ok	0.638	0.578-0.698
Acrolein	4.59	7.35	0.624	ok	0.623	0.563-0.683
Acrylonitrile	5.06	7.35	0.688	ok	0.688	0.628-0.748
Acetonitrile	4.50	7.35	0.612	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.53	1.053	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.53	1.225	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.35	0.476	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.53	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.35	1.113	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.21	1.049	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.77	9.21	1.278	ok	1.277	1.217-1.337
1,4-Dioxane	9.97	9.21	1.083	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.21	1.168	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.53	1.255	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.30	9.21	1.227	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.42	7.35	1.010	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.53	1.034	ok	1.034	0.974-1.094
Ethyl Acetate	7.47	7.35	1.016	ok	1.010	0.950-1.070
Ethyl Acrylate	9.74	9.21	1.058	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.05	13.53	0.891	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.08	13.53	0.893	ok	0.889	0.829-0.949
Iodomethane	5.25	7.35	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.53	1.131	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.91	7.35	0.668	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.53	1.246	ok	1.246	1.186-1.306
Methyl Acrylate	7.45	7.35	1.014	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.86	7.35	0.933	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.85	9.21	1.178	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.52	7.35	0.887	ok	0.884	0.824-0.944
Methylmethacrylate	10.14	9.21	1.101	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.21	13.53	1.198	ok	1.197	1.137-1.257
Naphthalene	18.67	13.53	1.380	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.53	1.169	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.59	13.53	1.078	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.46	9.21	1.244	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.53	1.396	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.83	13.53	1.096	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.53	1.245	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.53	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.44	7.35	0.740	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.92	7.35	1.078	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.60	7.35	0.898	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.53	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.53	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	472964	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2121089	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1052969	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.68	7.35	0.637	ok	0.638	0.578-0.698
Acrolein	4.58	7.35	0.623	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.35	0.687	ok	0.688	0.628-0.748
Acetonitrile	4.49	7.35	0.611	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.91	9.21	1.076	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.43	7.35	1.011	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.21	1.052	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.02	13.54	0.888	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.35	0.664	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.80	9.21	1.173	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.49	7.35	0.883	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.87	7.35	1.071	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.35	0.894	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	462457	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2061895	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1060612	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.35	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.35	0.622	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.35	0.686	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.35	0.610	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.90	9.21	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.19	7.35	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.35	1.010	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.54	0.887	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.29	13.54	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.35	0.663	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.85	13.54	1.244	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.48	7.35	0.882	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.86	7.35	1.069	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.56	7.35	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	458592	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2019630	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1088548	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.36	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.49	7.36	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.21	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.36	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.60	7.36	0.625	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.45	7.36	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.85	7.36	1.067	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.36	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	450013	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	1932450	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1113631	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.54	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.54	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.22	1.047	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.54	0.898	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.22	1.223	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.94	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.54	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.54	1.085	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.54	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	458599	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1942721	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1247352	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.56	7.36	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.55	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.10	7.36	0.557	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.94	7.36	0.535	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.55	1.223	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.55	1.274	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.36	0.573	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.36	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.36	1.018	ok	1.017	0.957-1.077
Chloromethane	3.66	7.36	0.497	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.36	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.55	1.229	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.25	7.36	0.713	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.55	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.49	7.36	0.474	ok	0.476	0.416-0.536
Styrene	14.57	13.55	1.075	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.55	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.55	1.184	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.81	7.36	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	467162	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1929313	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1280918	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.37	0.634	ok	0.638	0.578-0.698
Acrolein	4.57	7.37	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.37	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.37	0.608	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.37	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.55	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.37	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.37	0.608	ok	0.610	0.550-0.670
n-Butane	3.95	7.37	0.536	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.55	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.55	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.37	0.769	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.37	0.472	ok	0.473	0.413-0.533
Chloroethane	4.23	7.37	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.37	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.37	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.37	0.498	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.37	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.37	1.221	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.37	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.37	0.722	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.37	1.110	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.37	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.37	0.582	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.37	0.847	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.37	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.55	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.37	1.003	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.37	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.37	0.586	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.37	1.007	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.22	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.37	0.765	ok	0.767	0.707-0.827
Freon 114	3.73	7.37	0.506	ok	0.507	0.447-0.567
Freon 115	3.37	7.37	0.457	ok	0.458	0.398-0.518
Freon 123	4.60	7.37	0.624	ok	0.625	0.565-0.685
Freon 123A	4.64	7.37	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.37	0.495	ok	0.496	0.436-0.556
Freon 152A	3.44	7.37	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.37	1.001	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.37	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.55	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.37	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.37	1.005	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.37	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.37	0.921	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.37	0.878	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.37	0.688	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.50	7.37	0.475	ok	0.476	0.416-0.536
Styrene	14.58	13.55	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.37	1.141	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.55	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.55	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.37	0.729	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.37	1.064	ok	1.072	1.012-1.132
Toluene	11.73	9.22	1.272	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.37	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.37	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.37	0.891	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.36	7.03-7.69	467614	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1973593	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1346242	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.96	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.92	4.45	1.106	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.73	4.45	1.737	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.07	4.45	1.364	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.96	1.346	ok	1.345	1.285-1.405
Octane	8.98	4.45	2.018	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.96	1.213	ok	1.211	1.151-1.271

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.96	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.78	4.45	1.524	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.33	9.96	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114117	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	582166	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	538138	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.96	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.96	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.96	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.17	9.96	1.623	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.39	9.96	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.12	9.96	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.96	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.28	9.96	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.96	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.96	1.701	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.96	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.83	9.96	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.82	3.19	0.884	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.96	1.140	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	113084	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	573427	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	530262	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.96	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.59	9.96	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.96	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.96	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.34	4.45	0.975	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.09	4.45	1.144	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.96	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.72	4.45	1.735	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.96	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.96	1.345	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.06	9.96	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.49	3.19	1.094	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.34	9.96	1.139	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.96	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114690	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	581918	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	540272	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.97	1.368	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.97	1.118	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.06	4.45	1.137	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.94	3.19	0.608	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.56	9.97	1.260	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.97	1.698	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.48	3.19	1.091	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.27	9.97	1.231	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114041	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	577981	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	540711	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

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V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.97	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.18	4.45	1.613	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
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V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.36	9.97	1.842	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.97	1.837	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110309	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	561645	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511167	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.97	1.654	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110672	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	555876	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511162	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.37	3.19	0.743	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

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V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
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V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.30	9.97	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.97	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109480	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	545187	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	503767	ok	515873	309524-722222

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V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

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cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
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trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
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Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
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Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

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Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109851	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	546669	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	501897	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.68	9.97	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	105717	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531881	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	494368	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.51	9.97	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.06	9.97	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.27	3.19	1.025	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.02	4.45	1.802	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.67	3.19	1.150	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.95	4.45	1.337	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.81	9.97	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.42	9.97	1.346	ok	1.345	1.285-1.405
Octane	9.01	4.45	2.025	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.32	9.97	1.236	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.95	9.97	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.86	4.45	1.991	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.37	9.97	1.140	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	106909	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531012	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	486982	ok	515873	309524-722222

Surrogate Recovery Summary

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JE23790-1	5W60009.D	112
JE23790-2	7W18785.D	92
JE23790-3	5W60010.D	109
JE23790-4	7W18786.D	93
JE23787-3DUP	7W18777.D	92
JE23789-3DUP	5W60008.D	109
V5W2301-BS	5W60002.D	99
V5W2301-BSD	5W60003.D	99
V5W2301-MB	5W60005.D	106
V7W613-SCC	7W17483.D	94
V7W624-SCC	7W17827.D	95
V7W655-BS	7W18766.D	94
V7W655-BSD	7W18767.D	94
V7W655-MB	7W18769.D	86
V7W613-BS	7W17474.D	98
V7W613-BSD	7W17475.D	99
V7W613-MB	7W17477.D	94
V7W624-BS	7W17802.D	101
V7W624-BSD	7W17803.D	100
V7W624-MB	7W17805.D	95

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JE23790 **Sample:** V5W2292-ICC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59783.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Response Factor Report GCMS5W

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Calibration Files
0.04=5w59769.D 0.1 =5w59770.D 0.2 =5w59771.D 0.5 =5w59777.D
5 =5w59782.D 10 =5w59783.D 20 =5w59784.D 40 =5w59785.D
50 =5w59786.D 60 =5w59787.D = =

Compound	0.04	0.1	0.2	0.5	5	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	0.904	0.623	0.441	0.867	0.844	0.649	0.468				0.685	27.83
3) FREON 152A	1.190	0.843	0.777	0.639	0.629	0.634	0.654	0.669	0.679	0.703	0.742	23.17
4) CHLORODIFLUOROMETHANE	0.261	0.310	0.322	0.317	0.319	0.318	0.321	0.312	0.309	0.313	0.310	5.70
5) CHLOROTRIFLUOROETHENE	1.547	1.519	1.498	1.506	1.563	1.584	1.608	1.574	1.553	1.582	1.553	2.33
6) DICHLORODIFLUOROMETHANE	2.985	2.960	2.993	2.976	2.973	2.974	2.928	2.665	2.607	2.557	2.862	6.17
7) PROPYLENE	1.163	0.858	0.858	0.767	0.686	0.687	0.692	0.670	0.647	0.647	0.768	20.84
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.780	2.706	2.572	2.594	2.313	2.270	2.220	1.987	1.876	1.858	2.318	14.62
9) FREON 114	2.937	2.861	2.921	2.907	2.796	2.727	2.639	2.259	2.075	2.040	2.616	13.59
10) CHLOROMETHANE	0.431	0.378	0.356	0.335	0.302	0.297	0.293	0.263	0.244	0.242	0.314	19.44
11) VINYL CHLORIDE	1.049	1.003	1.074	1.031	1.012	1.001	0.979	0.875	0.834	0.829	0.969	9.24
12) 1,3-BUTADIENE	0.749	0.651	0.660	0.616	0.592	0.574	0.542	0.498	0.476	0.474	0.583	15.30
13) n-BUTANE	1.389	1.067	1.063	1.022	0.942	0.918	0.873	0.782	0.739	0.736	0.953	20.68
14) BROMOMETHANE	1.246	1.098	1.104	1.032	1.048	1.039	1.003	0.930	0.898	0.905	1.030	10.28
15) CHLOROETHANE	0.741	0.573	0.510	0.453	0.430	0.429	0.383	0.375	0.359		0.473	25.66
16) DICHLOROFLUOROMETHANE	2.476	2.142	2.254	2.245	2.119	2.098	2.008	1.802	1.755	1.690	2.059	12.07
17) ACETONITRILE	0.672	0.547	0.640	0.621	0.555	0.546	0.514	0.465	0.444	0.440	0.544	14.95
18) ACROLEIN	0.368	0.324	0.348	0.304	0.344	0.324	0.299	0.268	0.257	0.259	0.309	12.60
19) FREON 123	3.217	2.695	2.600	2.612	2.453	2.381	2.248	1.947	1.846	1.818	2.382	18.31
20) FREON 123A	1.580	1.536	1.456	1.509	1.438	1.391	1.317	1.182	1.137	1.133	1.368	12.24
21) TRICHLOROFLUOROMETHANE	2.581	2.586	2.629	2.688	2.603	2.488	2.433	2.204	2.126	2.106	2.445	8.97
22) ISOPROPYL ALCOHOL	2.614	2.508	2.222	2.040	1.950	1.865	1.714	1.590	1.499	1.605	1.961	19.74
23) ACETONE												

0.630 0.436 0.382 0.383 0.361 0.324 0.307 0.315 0.392 26.83

24) PENTANE
1.642 1.236 1.065 0.988 0.887 0.890 0.897 0.874 0.848 0.861 1.019 24.53

25) IODOMETHANE
3.028 3.099 3.178 3.075 3.112 3.051 3.062 2.974 2.936 2.953 3.047 2.50

26) 1,1-DICHLOROETHYLENE
1.447 1.169 1.069 1.090 1.017 0.995 0.996 0.975 0.978 0.990 1.073 13.53

27) CARBON DISULFIDE
2.997 3.014 2.977 2.890 2.819 2.764 2.735 2.653 2.618 2.638 2.810 5.44

28) ETHANOL
0.410 0.368 0.360 0.325 0.282 0.280 0.274 0.329 16.02

29) BROMOETHENE
1.144 1.045 1.084 1.077 1.054 1.046 1.003 0.925 0.895 0.887 1.016 8.53

30) ACRYLONITRILE
0.731 0.728 0.766 0.659 0.613 0.615 0.631 0.630 0.623 0.643 0.664 8.45

31) METHYLENE CHLORIDE
1.452 1.200 1.182 0.923 0.907 0.882 0.885 0.862 0.863 0.878 1.003 20.24

32) 3-CHLOROPROPENE
0.592 0.509 0.507 0.503 0.454 0.454 0.455 0.447 0.449 0.461 0.483 9.46

33) FREON 113
1.817 1.755 1.790 1.795 1.801 1.780 1.806 1.784 1.751 1.767 1.785 1.22

34) TRANS-1,2-DICHLOROETHYLENE
1.406 1.205 1.180 1.132 1.061 1.031 1.048 1.050 1.047 1.085 1.125 10.31

35) TERTIARY BUTYL ALCOHOL
2.011 1.926 2.111 2.081 2.179 2.134 2.097 1.869 1.847 1.796 2.005 6.76

36) METHYL TERTIARY BUTYL ETHER
3.856 3.026 2.904 2.828 2.710 2.672 2.659 2.576 2.512 2.562 2.830 13.94

37) TETRAHYDROFURAN
0.289 0.323 0.368 0.410 0.414 0.422 0.416 0.417 0.434 0.388 13.03

38) HEXANE
1.915 1.826 1.847 1.513 1.521 1.530 1.570 1.453 1.436 1.353 1.597 12.17

39) VINYL ACETATE
0.067 0.100 0.168 0.173 0.192 0.191 0.196 0.204 0.161 31.11

40) 1,1-DICHLOROETHANE
2.633 2.495 2.189 2.043 1.949 1.897 1.894 1.857 1.819 1.859 2.063 13.90

41) METHYL ETHYL KETONE
0.183 0.275 0.353 0.436 0.436 0.443 0.444 0.443 0.463 0.386 25.10

42) cis-1,2-DICHLOROETHYLENE
1.936 1.350 1.202 1.161 1.089 1.079 1.109 1.087 1.109 1.135 1.226 21.40

43) DIISOPROPYL ETHER
0.264 0.354 0.387 0.430 0.466 0.474 0.486 0.457 0.450 0.431 0.420 16.24

44) ETHYL ACETATE
0.083 0.229 0.295 0.349 0.343 0.350 0.339 0.335 0.333 0.295 29.95

45) METHYL ACRYLATE
0.432 1.287 1.422 1.650 1.890 1.915 1.940 1.815 1.761 1.699 1.581 28.86

46) CHLOROFORM
2.352 2.269 2.286 2.272 2.286 2.248 2.196 2.129 2.087 2.110 2.223 3.98

47) 2,4-DIMETHYLPENTANE
2.053 1.842 1.846 1.806 1.778 1.772 1.798 1.731 1.733 1.710 1.807 5.41

48) 1,1,1-TRICHLOROETHANE
2.325 2.281 2.406 2.366 2.372 2.352 2.356 2.258 2.249 2.226 2.319 2.65

49) CARBON TETRACHLORIDE
2.444 2.411 2.530 2.547 2.639 2.617 2.629 2.495 2.438 2.439 2.519 3.44

50) 1,2-DICHLOROETHANE
1.533 1.473 1.599 1.594 1.593 1.588 1.592 1.515 1.471 1.491 1.545 3.50

51) I 1,4-DIFLUOROBENZENE ----------ISTD----------

52) BENZENE
0.696 0.655 0.643 0.656 0.654 0.658 0.683 0.675 0.693 0.687 0.670 2.84

53) CYCLOHEXANE

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          0.273 0.253 0.260 0.267 0.265 0.261 0.271 0.269 0.280 0.278  0.268    3.20
54)  2,3-DIMETHYLPENTANE
          0.129 0.129 0.130 0.128 0.130 0.135 0.137 0.144 0.146 0.145  0.135    5.39
55)  TRICHLOROETHYLENE
          0.328 0.325 0.320 0.336 0.341 0.346 0.363 0.354 0.359 0.342  0.341    4.26
56)  1,2-DICHLOROPROPANE
          0.438 0.404 0.281 0.300 0.278 0.277 0.289 0.285 0.283 0.275  0.311   18.96
57)  DIBROMOMETHANE
          0.424 0.377 0.366 0.351 0.361 0.367 0.389 0.393 0.396 0.391  0.381    5.63
58)  ETHYL ACRYLATE
                      0.253 0.395 0.528 0.532 0.558 0.543 0.544 0.537  0.486   22.14
59)  BROMODICHLOROMETHANE
          0.553 0.553 0.574 0.575 0.604 0.609 0.628 0.607 0.618 0.597  0.592    4.47
60)  2,2,4-TRIMETHYLPENTANE
          1.172 1.070 1.076 1.110 1.083 1.092 1.093 1.008 0.985 0.912  1.060    6.91
61)  1,4-DIOXANE
          0.119 0.163 0.166 0.153 0.156 0.158 0.161 0.149 0.155 0.148  0.153    8.55
62)  HEPTANE
          0.486 0.429 0.412 0.394 0.359 0.364 0.366 0.350 0.352 0.343  0.385   11.77
63)  METHYL METHACRYLATE
                0.165 0.191 0.210 0.220 0.230 0.237 0.235 0.237 0.240  0.218   11.74
64)  METHYL ISOBUTYL KETONE
                0.094 0.143 0.177 0.216 0.220 0.232 0.229 0.234 0.233  0.198   25.14
65)  cis-1,3-DICHLOROPROPENE
          0.549 0.472 0.454 0.444 0.448 0.457 0.480 0.484 0.488 0.488  0.477    6.41
66)  TOLUENE
          0.453 0.460 0.472 0.473 0.501 0.504 0.534 0.536 0.536 0.539  0.501    6.86
67)  1,3-DICHLOROPROPANE
          0.388 0.399 0.412 0.403 0.408 0.405 0.424 0.412 0.418 0.413  0.408    2.50
68)  trans-1,3-DICHLOROPROPENE
          0.532 0.455 0.440 0.408 0.413 0.432 0.450 0.446 0.464 0.458  0.450    7.61
69)  1,1,2-TRICHLOROETHANE
          0.222 0.260 0.256 0.259 0.273 0.275 0.289 0.291 0.298 0.295  0.272    8.64

70) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
71)  2-HEXANONE
                    0.408 0.431 0.614 0.614 0.604 0.521 0.508 0.486  0.523   15.56
72)  ETHYL METHACRYLATE
                0.516 0.665 0.708 0.800 0.801 0.777 0.665 0.658 0.627  0.691   13.43
73)  TETRACHLOROETHYLENE
          0.676 0.720 0.732 0.733 0.739 0.718 0.701 0.620 0.602 0.581  0.682    8.74
74)  DIBROMOCHLOROMETHANE
          1.151 1.237 1.210 1.236 1.308 1.287 1.240 1.073 1.045 0.990  1.178    9.18
75)  1,2-DIBROMOETHANE
          0.796 0.917 0.967 0.994 1.020 0.988 0.966 0.866 0.842 0.809  0.916    8.99
76)  OCTANE
          1.367 1.023 1.031 0.997 0.998 0.951 0.922 0.779 0.739 0.693  0.950   20.17
77)  1,1,1,2-TETRACHLOROETHANE
          0.759 0.752 0.771 0.778 0.809 0.810 0.790 0.715 0.681 0.635  0.750    7.58
78)  CHLOROBENZENE
          1.396 1.346 1.325 1.345 1.310 1.304 1.267 1.132 1.076 0.996  1.250   10.70
79)  ETHYLBENZENE
          2.081 2.086 2.090 2.062 2.054 2.026 1.959 1.699 1.615 1.496  1.917   11.72
80)  m,p-XYLENE
          0.737 0.778 0.808 0.808 0.831 0.813 0.805 0.692 0.665 0.617  0.755    9.80
81)  o-XYLENE
          0.690 0.721 0.758 0.763 0.789 0.776 0.769 0.649 0.607 0.548  0.707   11.55
82)  STYRENE
          0.842 1.090 1.135 1.188 1.219 1.241 1.200 1.083 1.051 0.991  1.104   11.06
83)  NONANE
```

Initial Calibration Summary

Job Number: JE23790 **Sample:** V5W2292-ICC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59783.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
           1.263 1.143 1.098 1.070 1.015 0.984 0.936 0.758 0.711 0.630  0.961   21.20
 84)  BROMOFORM
           0.975 1.099 1.138 1.163 1.350 1.334 1.294 1.136 1.095 1.036  1.162   10.84
 85)  4-BROMOFLUOROBENZENE
           1.330 1.340 1.366 1.347 1.327 1.287 1.218 1.121 1.095 1.064  1.249    9.27
 86)  1,1,2,2-TETRACHLOROETHANE
           1.295 1.327 1.329 1.369 1.391 1.354 1.306 1.073 0.984 0.872  1.230   14.92
 87)  1,2,3-TRICHLOROPROPANE
           1.343 1.154 1.094 1.066 1.002 0.961 0.918 0.802 0.795 0.755  0.989   18.56
 88)  ISOPROPYLBENZENE
           2.240 2.330 2.361 2.367 2.405 2.373 2.298 1.911 1.764 1.610  2.166   13.45
 89)  BROMOBENZENE
           1.244 1.237 1.285 1.170 1.203 1.169 1.138 0.981 0.955 0.885  1.127   12.18
 90)  2-CHLOROTOLUENE
           0.536 0.627 0.631 0.629 0.644 0.645 0.636 0.568 0.559 0.524  0.600    7.92
 91)  n-PROPYLBENZENE
           0.507 0.562 0.604 0.628 0.636 0.654 0.635 0.554 0.528 0.499  0.581    9.98
 92)  4-ETHYLTOLUENE
           1.639 1.966 2.121 2.208 2.358 2.292 2.208 1.826 1.672 1.521  1.981   15.14
 93)  1,3,5-TRIMETHYLBENZENE
           2.134 2.114 2.126 2.019 2.006 1.939 1.861 1.528 1.413 1.278  1.842   17.25
 94)  ALPHA-METHYLSTYRENE
           0.664 0.815 0.913 0.949 1.039 1.056 1.037 0.912 0.886 0.802  0.907   13.61
 95)  tert-BUTYLBENZENE
                 0.385 0.387 0.399 0.430 0.437 0.419 0.333 0.301 0.273  0.374   15.59
 96)  1,2,4-TRIMETHYLBENZENE
           1.774 1.808 1.921 1.943 2.043 2.024 1.886 1.411 1.261 1.116  1.719   19.36
 97)  m-DICHLOROBENZENE
           1.071 1.275 1.361 1.467 1.581 1.575 1.484 1.226 1.105 0.994  1.314   16.21
 98)  BENZYL CHLORIDE
           1.079 1.369 1.537 1.720 2.062 2.046 1.914 1.531 1.366 1.212  1.584   21.69
 99)  p-DICHLOROBENZENE
           1.495 1.539 1.589 1.568 1.519 1.496 1.454 1.250 1.145 1.072  1.413   13.19
100)  sec-BUTYLBENZENE
           0.443 0.490 0.508 0.501 0.536 0.521 0.509 0.438 0.405 0.385  0.474   10.99
101)  1,2,3-TRIMETHYLBENZENE
           1.891 2.048 2.044 2.086 2.132 2.084 1.952 1.469 1.317 1.153  1.818   19.95
102)  p-ISOPROPYLTOLUENE
           0.478 0.540 0.594 0.609 0.642 0.635 0.609 0.471 0.423 0.368  0.537   17.98
103)  o-DICHLOROBENZENE
           1.222 1.365 1.402 1.444 1.466 1.430 1.407 1.207 1.165 1.072  1.318   10.51
104)  n-BUTYLBENZENE
           0.393 0.469 0.535 0.547 0.617 0.598 0.602 0.528 0.503 0.466  0.526   13.41
105)  HEXACHLOROETHANE
           0.945 0.925 0.962 0.982 1.025 1.011 0.994 0.812 0.739 0.669  0.906   13.59
106)  HEXACHLOROBUTADIENE
           1.290 1.305 1.341 1.386 1.445 1.419 1.355 1.012 0.902 0.796  1.225   18.99
107)  1,2,4-TRICHLOROBENZENE
           1.125 1.174 1.216 1.297 1.397 1.381 1.375 1.174 1.089 0.985  1.221   11.36
108)  NAPHTHALENE
           2.542 2.726 2.760 2.887 3.309 3.228 3.019 2.334 2.035 1.777  2.662   18.70

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
           6.493 5.469 7.159 6.304 5.822 5.911 6.041 5.816 5.676 5.781  6.047    8.12
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M5w2292.M         Mon Nov 10 09:45:04 2025
```

Initial Calibration Verification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w59790.D Vial: 5
Acq On : 7 Nov 2025 12:25 pm Operator: benk
Sample : icv2292-10 Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	109	0.00	7.35
2	FREON 115	0.685	0.779	-13.7	130	0.00	3.37
3	FREON 152A	0.742	0.643	13.3	110	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	109	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.530	1.5	105	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	2.988	-4.4	109	0.00	3.55
7	PROPYLENE	0.768	0.702	8.6	111	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.153	7.1	103	0.00	3.65
9	FREON 114	2.616	2.753	-5.2	110	0.00	3.73
10	CHLOROMETHANE	0.314	0.302	3.8	110	0.00	3.67
11	VINYL CHLORIDE	0.969	0.972	-0.3	105	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	106	0.00	3.91
13	n-BUTANE	0.953	0.914	4.1	108	0.00	3.95
14	BROMOMETHANE	1.030	1.045	-1.5	109	0.00	4.11
15	CHLOROETHANE	0.473	0.420	11.2	106	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.125	-3.2	110	0.00	4.29
17	ACETONITRILE	0.544	0.544	0.0	108	0.00	4.48
18	ACROLEIN	0.309	0.333	-7.8	112	0.00	4.57
19	FREON 123	2.382	2.220	6.8	101	0.00	4.59
20	FREON 123A	1.368	1.202	12.1	94	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.504	-2.4	109	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.814	7.5	106	0.00	4.87
23	ACETONE	0.392	0.355	9.4	101	0.00	4.67
24	PENTANE	1.019	0.893	12.4	109	0.00	5.07
25	IODOMETHANE	3.047	3.023	0.8	108	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	0.965	10.1	105	0.00	5.32
27	CARBON DISULFIDE	2.810	2.525	10.1	99	0.00	5.67
28	ETHANOL	0.329	0.346	-5.2	104	0.00	4.31
29	BROMOETHENE	1.016	0.992	2.4	103	0.00	4.48
30	ACRYLONITRILE	0.664	0.612	7.8	108	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.881	12.2	108	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.449	7.0	108	0.00	5.52
33	FREON 113	1.785	1.773	0.7	108	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.001	11.0	105	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	2.333	-16.4	119	0.00	5.37
36	METHYL TERTIARY BUTYL ETH	2.830	2.647	6.5	108	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.451	-16.2	118	0.00	7.86
38	HEXANE	1.597	1.514	5.2	107	0.00	7.38
39	VINYL ACETATE	0.161	0.179	-11.2	112	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.900	7.9	109	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.431	-11.7	107	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.081	11.8	109	0.00	7.20

Initial Calibration Verification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

43		DIISOPROPYL ETHER	0.420	0.475	-13.1	109	0.00	7.39
44		ETHYL ACETATE	0.295	0.316	-7.1	100	0.00	7.42
45		METHYL ACRYLATE	1.581	1.896	-19.9	108	0.00	7.40
46		CHLOROFORM	2.223	2.242	-0.9	108	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.797	0.6	110	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.340	-0.9	108	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.531	-0.5	105	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.580	-2.3	108	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	107	0.00	9.21
52		BENZENE	0.670	0.673	-0.4	110	0.00	8.85
53		CYCLOHEXANE	0.268	0.265	1.1	109	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.135	0.0	107	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.344	-0.9	107	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.279	10.3	108	0.00	9.65
57		DIBROMOMETHANE	0.381	0.364	4.5	106	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.544	-11.9	110	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.612	-3.4	108	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.094	-3.2	107	0.00	9.91
61		1,4-DIOXANE	0.153	0.172	-12.4	117	0.00	9.90
62		HEPTANE	0.385	0.362	6.0	106	0.00	10.19
63		METHYL METHACRYLATE	0.218	0.234	-7.3	109	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.228	-15.2	111	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.428	10.3	100	0.00	10.75
66		TOLUENE	0.501	0.522	-4.2	111	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.415	-1.7	110	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.426	5.3	106	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.279	-2.6	109	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	0.00	13.54
71		2-HEXANONE	0.523	0.623	-19.1	109	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.789	-14.2	106	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.719	-5.4	107	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.278	-8.5	106	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	0.991	-8.2	108	0.00	12.40
76		OCTANE	0.950	0.982	-3.4	111	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.807	-7.6	107	0.00	13.56
78		CHLOROBENZENE	1.250	1.307	-4.6	108	0.00	13.58
79		ETHYLBENZENE	1.917	2.022	-5.5	107	0.00	13.99
80		m,p-XYLENE	0.755	0.820	-8.6	108	0.00	14.18
81		o-XYLENE	0.707	0.798	-12.9	110	0.00	14.68
82		STYRENE	1.104	1.193	-8.1	103	0.00	14.57
83		NONANE	0.961	0.979	-1.9	107	0.00	14.93
84		BROMOFORM	1.162	1.338	-15.1	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.271	-1.8	106	0.00	15.16
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.370	-11.4	109	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.972	1.7	108	0.00	14.82
88		ISOPROPYLBENZENE	2.166	2.352	-8.6	106	0.00	15.29
89		BROMOBENZENE	1.127	1.177	-4.4	108	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.648	-8.0	108	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.653	-12.4	107	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.350	-18.6	110	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.949	-5.8	108	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	0.970	-6.9	98	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.445	-19.0	109	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.034	-18.3	108	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.579	-20.2	108	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.924	-21.5	101	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.485	-5.1	106	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.527	-11.2	108	0.00	16.70

Initial Calibration Verification

Job Number: JE23790 **Sample:** V5W2292-ICV2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59790.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.100	-15.5	108	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.630	-17.3	106	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.447	-9.8	109	0.00	16.98
104		n-BUTYLBENZENE	0.526	0.598	-13.7	107	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.898	0.9	95	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.374	-12.2	104	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.350	-10.6	105	0.00	18.89
108		NAPHTHALENE	2.662	3.063	-15.1	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	108	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.852	3.2	107	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Mon Nov 10 09:44:44 2025

6.9.2
6

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60001.D Vial: 2
Acq On : 24 Nov 2025 9:49 am Operator: benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	103	0.00	7.35
2	FREON 115	0.685	0.650	5.1	103	0.00	3.37
3	FREON 152A	0.742	0.612	17.5	99	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	103	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.657	-6.7	107	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	3.030	-5.9	104	0.00	3.55
7	PROPYLENE	0.768	0.623	18.9	93	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.297	0.9	104	0.00	3.65
9	FREON 114	2.616	2.883	-10.2	108	0.00	3.73
10	CHLOROMETHANE	0.314	0.281	10.5	97	0.00	3.67
11	VINYL CHLORIDE	0.969	0.994	-2.6	102	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	100	0.00	3.91
13	n-BUTANE	0.953	0.869	8.8	97	0.00	3.95
14	BROMOMETHANE	1.030	1.106	-7.4	109	0.00	4.11
15	CHLOROETHANE	0.473	0.431	8.9	103	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.152	-4.5	105	0.00	4.29
17	ACETONITRILE	0.544	0.522	4.0	98	0.00	4.48
18	ACROLEIN	0.309	0.307	0.6	97	0.00	4.57
19	FREON 123	2.382	2.544	-6.8	110	0.00	4.59
20	FREON 123A	1.368	1.505	-10.0	111	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.691	-10.1	111	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.675	14.6	92	0.00	4.87
23	ACETONE	0.392	0.386	1.5	103	0.00	4.67
24	PENTANE	1.019	0.807	20.8	93	0.00	5.07
25	IODOMETHANE	3.047	3.258	-6.9	110	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	1.032	3.8	106	0.00	5.32
27	CARBON DISULFIDE	2.810	2.762	1.7	102	0.00	5.67
28	ETHANOL	0.329	0.359	-9.1	102	0.00	4.32
29	BROMOETHENE	1.016	1.138	-12.0	112	0.00	4.48
30	ACRYLONITRILE	0.664	0.575	13.4	96	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.914	8.9	106	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.437	9.5	99	0.00	5.52
33	FREON 113	1.785	1.909	-6.9	110	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.066	5.2	106	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	1.976	1.4	95	0.00	5.38
36	METHYL TERTIARY BUTYL ETH	2.830	2.633	7.0	101	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.407	-4.9	101	0.00	7.86
38	HEXANE	1.597	1.427	10.6	96	0.00	7.38
39	VINYL ACETATE	0.161	0.169	-5.0	100	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.832	11.2	99	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.416	-7.8	98	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.103	10.0	105	0.00	7.19

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43		DIISOPROPYL ETHER	0.420	0.446	-6.2	97	0.00	7.38
44		ETHYL ACETATE	0.295	0.326	-10.5	98	0.00	7.42
45		METHYL ACRYLATE	1.581	1.788	-13.1	96	0.00	7.40
46		CHLOROFORM	2.223	2.301	-3.5	105	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.640	9.2	95	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.386	-2.9	104	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.656	-5.4	104	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.513	2.1	98	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00	9.21
52		BENZENE	0.670	0.663	1.0	102	0.00	8.85
53		CYCLOHEXANE	0.268	0.260	3.0	101	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.132	2.2	99	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.368	-7.9	108	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.268	13.8	98	0.00	9.65
57		DIBROMOMETHANE	0.381	0.400	-5.0	111	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.502	-3.3	96	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.625	-5.6	104	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.033	2.5	96	0.00	9.91
61		1,4-DIOXANE	0.153	0.162	-5.9	104	0.00	9.90
62		HEPTANE	0.385	0.323	16.1	90	0.00	10.18
63		METHYL METHACRYLATE	0.218	0.225	-3.2	99	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.209	-5.6	96	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.456	4.4	101	0.00	10.75
66		TOLUENE	0.501	0.512	-2.2	103	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.409	-0.2	103	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.432	4.0	101	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.285	-4.8	105	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00	13.53
71		2-HEXANONE	0.523	0.580	-10.9	95	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.782	-13.2	99	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.805	-18.0	113	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.365	-15.9	107	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	1.051	-14.7	107	0.00	12.39
76		OCTANE	0.950	0.880	7.4	93	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.847	-12.9	105	0.00	13.56
78		CHLOROBENZENE	1.250	1.365	-9.2	106	0.00	13.58
79		ETHYLBENZENE	1.917	2.077	-8.3	103	0.00	13.98
80		m,p-XYLENE	0.755	0.819	-8.5	102	0.00	14.18
81		o-XYLENE	0.707	0.793	-12.2	103	0.00	14.68
82		STYRENE	1.104	1.238	-12.1	101	0.00	14.57
83		NONANE	0.961	0.916	4.7	94	0.00	14.93
84		BROMOFORM	1.162	1.434	-23.4	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.269	-1.6	99	0.00	15.15
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.384	-12.5	103	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.971	1.8	102	0.00	14.81
88		ISOPROPYLBENZENE	2.166	2.356	-8.8	100	0.00	15.29
89		BROMOBENZENE	1.127	1.169	-3.7	101	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.664	-10.7	104	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.659	-13.4	102	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.339	-18.1	103	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.987	-7.9	103	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	1.038	-14.4	99	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.450	-20.3	104	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.087	-21.4	104	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.625	-23.7	104	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.930	-21.8	95	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.541	-9.1	104	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.516	-8.9	100	0.00	16.70

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.150	-18.3	104	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.657	-22.3	104	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.459	-10.7	103	0.00	16.97
104		n-BUTYLBENZENE	0.526	0.603	-14.6	102	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.831	8.3	83	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.512	-23.4	108	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.482	-21.4	108	0.00	18.88
108		NAPHTHALENE	2.662	3.274	-23.0	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	102	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.436	10.1	94	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Tue Nov 25 23:10:44 2025

Initial Calibration Summary

Job Number: JE23790 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Response Factor Report MS7W

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Calibration Files
0.04=7w16576.D 0.10=7w16577.D 0.20=7w16583.D 0.5 =7w16584.D
5.0 =7w16589.D 10 =7w16590.D 20 =7w16591.D 40 =7w16592.D
50 =7w16593.D 60 =7w16594.D = =

Compound	0.04	0.10	0.20	0.5	5.0	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	1.203	1.393	1.114	1.143	1.254	1.290	1.096				1.213	8.81
3) FREON 152A	0.745	0.766	0.515	0.617	0.600	0.616	0.583	0.573	0.625	0.619	0.626	12.09
4) CHLORODIFLUOROMETHANE	0.262	0.310	0.227	0.298	0.278	0.280	0.263	0.256	0.274	0.268	0.272	8.44
5) CHLOROTRIFLUOROETHENE	1.236	1.313	1.228	1.323	1.328	1.374	1.287	1.267	1.368	1.350	1.307	3.96
6) DICHLORODIFLUOROMETHANE	2.430	2.605	2.232	2.464	2.458	2.507	2.286	2.240	2.393	2.333	2.395	5.06
7) PROPYLENE	1.071	0.884	0.802	0.773	0.770	0.792	0.740	0.724	0.781	0.764	0.810	12.49
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.209	2.330	2.069	2.243	2.205	2.234	2.046	1.940	2.046	1.984	2.131	6.08
9) FREON 114	2.502	2.559	2.224	2.545	2.563	2.616	2.427	2.335	2.486	2.428	2.469	4.82
10) CHLOROMETHANE	0.455	0.388	0.331	0.328	0.341	0.337	0.316	0.304	0.322	0.312	0.343	13.20
11) VINYL CHLORIDE	1.458	1.323	1.045	1.211	1.233	1.252	1.156	1.121	1.196	1.166	1.216	9.35
12) 1,3-BUTADIENE	1.219	1.115	0.851	0.966	0.948	0.970	0.888	0.854	0.905	0.890	0.961	12.39
13) N-BUTANE	2.037	1.684	1.681	1.625	1.658	1.513	1.438	1.522	1.470		1.625	11.08
14) BROMOMETHANE	1.198	1.035	0.868	0.913	0.937	0.952	0.882	0.849	0.907	0.888	0.943	11.02
15) CHLOROETHANE	0.861	0.707	0.614	0.656	0.639	0.662	0.623	0.586	0.634	0.618	0.660	11.78
16) DICHLOROFLUOROMETHANE	2.550	2.579	2.157	2.307	2.310	2.365	2.164	2.072	2.204	2.152	2.286	7.50
17) ACETONITRILE	1.721	1.525	1.208	1.108	1.011	1.040	0.948	0.902	0.961	0.935	1.136	24.30
18) ACROLEIN	0.687	0.560	0.578	0.522	0.542	0.495	0.474	0.507	0.493		0.540	11.98
19) FREON 123	2.414	2.455	2.175	2.383	2.349	2.423	2.225	2.120	2.271	2.217	2.303	5.06
20) FREON 123A	1.611	1.387	1.303	1.356	1.389	1.419	1.304	1.248	1.330	1.298	1.364	7.40
21) TRICHLOROFLUOROMETHANE	2.753	2.717	2.507	2.784	2.706	2.755	2.516	2.365	2.495	2.413	2.601	6.06
22) ISOPROPYL ALCOHOL	2.546	2.456	2.277	2.284	2.064	1.926	2.061	2.020			2.204	10.05
23) ACETONE												

Initial Calibration Summary

Job Number: JE23790 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
                    0.656 0.680 0.609 0.633 0.569 0.543 0.574 0.556  0.603    8.27
24)  PENTANE
          1.606 1.407 1.190 1.200 1.152 1.181 1.073 1.014 1.072 1.043  1.194   15.35
25)  IODOMETHANE
          2.438 2.580 2.265 2.470 2.464 2.527 2.313 2.208 2.364 2.301  2.393    5.06
26)  1,1-DICHLOROETHYLENE
          1.069 1.117 0.969 0.998 1.011 1.023 0.937 0.893 0.958 0.941  0.991    6.72
27)  CARBON DISULFIDE
          2.988 3.039 2.590 2.949 2.902 2.970 2.722 2.581 2.743 2.649  2.813    6.24
28)  ETHANOL
                    0.707 0.722 0.581 0.585 0.538 0.501 0.535 0.525  0.587   14.28
29)  BROMOETHENE
          1.011 1.016 0.878 0.948 0.967 0.995 0.915 0.878 0.942 0.919  0.947    5.32
30)  ACRYLONITRILE
                    0.902 0.945 0.863 0.877 0.802 0.767 0.822 0.800  0.847    7.05
31)  METHYLENE CHLORIDE
               1.365 0.950 1.004 0.951 0.971 0.878 0.845 0.906 0.879  0.972   16.03
32)  3-CHLOROPROPENE
          0.565 0.547 0.514 0.539 0.548 0.554 0.515 0.489 0.524 0.509  0.530    4.50
33)  FREON 113
          1.465 1.565 1.411 1.596 1.560 1.594 1.454 1.381 1.476 1.433  1.493    5.28
34)  TRANS-1,2-DICHLOROETHENE
          1.192 1.283 0.975 1.120 1.106 1.128 1.036 0.985 1.053 1.031  1.091    8.76
35)  TERTIARY BUTYL ALCOHOL
          3.327 3.620 2.504 2.744 2.758 2.788 2.506 2.337 2.506 2.448  2.754   14.99
36)  METHYL TERTIARY BUTYL ETHER
          3.411 3.505 2.859 3.151 3.124 3.202 2.945 2.821 3.037 2.976  3.103    7.24
37)  TETRAHYDROFURAN
          0.463 0.602 0.399 0.525 0.513 0.535 0.492 0.480 0.516 0.507  0.503   10.41
38)  HEXANE
          2.426 2.447 1.855 2.100 2.092 2.121 1.971 1.886 2.029 1.974  2.090    9.71
39)  VINYL ACETATE
          0.346 0.297 0.248 0.276 0.290 0.312 0.297 0.291 0.313 0.311  0.298    8.61
40)  1,1-DICHLOROETHANE
          2.208 2.250 1.966 2.188 2.166 2.223 2.038 1.955 2.090 2.006  2.109    5.30
41)  METHYL ETHYL KETONE
          0.680 0.718 0.505 0.543 0.558 0.573 0.528 0.509 0.548 0.540  0.570   12.52
42)  CIS-1,2-DICHLOROETHENE
          1.234 1.216 1.059 1.153 1.131 1.168 1.084 1.043 1.122 1.105  1.132    5.56
43)  DIISOPROPYL ETHER
          0.655 0.625 0.569 0.597 0.608 0.610 0.568 0.546 0.580 0.566  0.593    5.54
44)  ETHYL ACETATE
          0.424 0.389 0.362 0.383 0.409 0.431 0.405 0.389 0.414 0.401  0.401    5.13
45)  METHYL ACRYLATE
          2.886 2.714 2.279 2.520 2.550 2.627 2.441 2.344 2.498 2.434  2.529    7.05
46)  CHLOROFORM
          2.197 2.312 2.087 2.345 2.258 2.323 2.107 1.996 2.127 2.074  2.183    5.57
47)  2,4-DIMETHYLPENTANE
          2.514 2.532 2.162 2.399 2.371 2.421 2.242 2.159 2.317 2.276  2.339    5.64
48)  1,1,1-TRICHLOROETHANE
          2.385 2.439 2.098 2.353 2.370 2.418 2.235 2.144 2.305 2.254  2.300    5.01
49)  CARBON TETRACHLORIDE
          2.279 2.359 2.087 2.395 2.491 2.585 2.402 2.314 2.482 2.435  2.383    5.75
50)  1,2-DICHLOROETHANE
          1.529 1.771 1.601 1.817 1.788 1.824 1.680 1.592 1.704 1.661  1.697    6.03
51)  BENZENE
          3.752 3.819 3.173 3.365 3.315 3.400 3.154 3.029 3.266 3.210  3.348    7.61

52) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
53)  CYCLOHEXANE
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          0.289 0.316 0.271 0.301 0.297 0.307 0.287 0.273 0.293 0.292  0.293    4.78
54)  2,3-DIMETHYLPENTANE
          0.134 0.157 0.127 0.152 0.150 0.156 0.144 0.140 0.149 0.149  0.146    6.57
55)  TRICHLOROETHENE
          0.321 0.352 0.277 0.322 0.315 0.327 0.303 0.290 0.307 0.305  0.312    6.69
56)  1,2-DICHLOROPROPANE
          0.293 0.297 0.236 0.287 0.276 0.288 0.269 0.259 0.276 0.274  0.276    6.53
57)  DIBROMOMETHANE
          0.334 0.292 0.244 0.263 0.256 0.267 0.247 0.241 0.257 0.257  0.266   10.55
58)  ETHYL ACRYLATE
          0.633 0.638 0.568 0.598 0.626 0.654 0.614 0.590 0.627 0.622  0.617    4.11
59)  BROMODICHLOROMETHANE
          0.497 0.496 0.450 0.504 0.522 0.542 0.509 0.488 0.518 0.513  0.504    4.82
60)  2,2,4-TRIMETHYLPENTANE
          1.551 1.607 1.274 1.372 1.313 1.363 1.263 1.209 1.281 1.270  1.350    9.64
61)  1,4-DIOXANE
                      0.119 0.148 0.155 0.162 0.148 0.142 0.153 0.153  0.148    8.73
62)  HEPTANE
          0.521 0.485 0.419 0.457 0.443 0.456 0.421 0.404 0.428 0.424  0.446    7.95
63)  METHYL METHACRYLATE
          0.275 0.256 0.220 0.251 0.252 0.262 0.247 0.238 0.254 0.251  0.251    5.74
64)  METHYL ISOBUTYL KETONE
          0.327 0.358 0.222 0.242 0.257 0.269 0.250 0.240 0.255 0.253  0.267   15.78
65)  CIS-1,3-DICHLOROPROPENE
          0.386 0.412 0.377 0.409 0.433 0.458 0.431 0.422 0.450 0.449  0.423    6.41
66)  TOLUENE
          0.794 0.853 0.735 0.806 0.797 0.829 0.777 0.750 0.801 0.798  0.794    4.35
67)  1,3-DICHLOROPROPANE
          0.371 0.411 0.360 0.404 0.410 0.429 0.401 0.383 0.408 0.403  0.398    5.17
68)  TRANS-1,3-DICHLOROPROPENE
          0.306 0.358 0.314 0.361 0.397 0.425 0.407 0.399 0.426 0.426  0.382   11.78
69)  1,1,2-TRICHLOROETHANE
          0.177 0.235 0.215 0.239 0.234 0.246 0.229 0.221 0.235 0.232  0.226    8.60
70)  2-HEXANONE
          0.551 0.561 0.286 0.321 0.341 0.353 0.330 0.317 0.337 0.334  0.373   26.30
71)  ETHYL METHACRYLATE
          0.409 0.415 0.369 0.418 0.431 0.450 0.421 0.404 0.431 0.429  0.418    5.11
72)  TETRACHLOROETHENE
          0.284 0.301 0.266 0.297 0.292 0.305 0.287 0.277 0.295 0.292  0.290    4.03
73)  DIBROMOCHLOROMETHANE
          0.387 0.447 0.377 0.424 0.479 0.511 0.486 0.474 0.507 0.505  0.460   10.69
74)  1,2-DIBROMOETHANE
          0.390 0.428 0.370 0.416 0.422 0.438 0.407 0.391 0.418 0.414  0.409    4.99
75)  OCTANE
          0.655 0.631 0.559 0.596 0.602 0.624 0.580 0.556 0.587 0.582  0.597    5.33

76) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
77)  1,1,1,2-TETRACHLOROETHANE
          0.343 0.367 0.294 0.339 0.374 0.394 0.367 0.357 0.377 0.379  0.359    7.87
78)  CHLOROBENZENE
          0.675 0.708 0.637 0.693 0.700 0.721 0.670 0.650 0.686 0.692  0.683    3.74
79)  ETHYLBENZENE
          1.102 1.188 1.022 1.113 1.145 1.188 1.103 1.070 1.126 1.136  1.119    4.50
80)  M,P-XYLENE
          0.940 0.969 0.843 0.899 0.934 0.953 0.886 0.853 0.895 0.897  0.907    4.59
81)  O-XYLENE
          0.848 0.949 0.803 0.890 0.917 0.935 0.865 0.834 0.876 0.883  0.880    5.14
82)  STYRENE
          0.585 0.667 0.537 0.636 0.698 0.728 0.678 0.664 0.699 0.705  0.660    8.95
83)  NONANE
```

Initial Calibration Summary

Job Number: JE23790 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

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           0.735 0.732 0.655 0.678 0.699 0.717 0.665 0.637 0.665 0.669  0.685    4.92
 84)  BROMOFORM
           0.327 0.379 0.342 0.378 0.440 0.475 0.457 0.452 0.483 0.489  0.422   14.30
 85)  1,1,2,2-TETRACHLOROETHANE
           0.585 0.632 0.595 0.635 0.663 0.680 0.629 0.606 0.638 0.642  0.630    4.61
 86)  1,2,3-TRICHLOROPROPANE
           0.459 0.490 0.452 0.513 0.520 0.536 0.491 0.474 0.500 0.506  0.494    5.38
 87)  4-BROMOFLUOROBENZENE
           0.795 0.797 0.788 0.782 0.814 0.814 0.811 0.819 0.805 0.827  0.805    1.77
 88)  ISOPROPYLBENZENE
           0.310 0.362 0.307 0.333 0.350 0.358 0.331 0.321 0.335 0.340  0.335    5.62
 89)  BROMOBENZENE
           0.635 0.709 0.582 0.638 0.665 0.677 0.629 0.608 0.638 0.645  0.643    5.48
 90)  2-CHLOROTOLUENE
           0.291 0.323 0.266 0.303 0.327 0.338 0.316 0.306 0.323 0.327  0.312    6.80
 91)  N-PROPYLBENZENE
           0.304 0.354 0.329 0.341 0.378 0.388 0.362 0.351 0.370 0.374  0.355    7.08
 92)  4-ETHYLTOLUENE
           1.225 1.328 1.167 1.286 1.380 1.406 1.322 1.291 1.361 1.375  1.314    5.66
 93)  1,3,5-TRIMETHYLBENZENE
           1.057 1.125 0.973 1.053 1.143 1.172 1.092 1.064 1.125 1.132  1.094    5.33
 94)  ALPHA-METHYLSTYRENE
           0.465 0.531 0.443 0.509 0.582 0.598 0.561 0.553 0.589 0.593  0.542   10.10
 95)  TERT-BUTYLBENZENE
           0.292 0.271 0.234 0.266 0.276 0.283 0.259 0.253 0.265 0.267  0.267    5.99
 96)  1,2,4-TRIMETHYLBENZENE
           0.993 1.060 0.975 1.056 1.151 1.185 1.098 1.068 1.127 1.130  1.084    6.19
 97)  BENZYL CHLORIDE
           0.665 0.680 0.609 0.685 0.934 1.021 0.987 1.003 1.077 1.097  0.876   21.94
 98)  M-DICHLOROBENZENE
           0.778 0.747 0.669 0.727 0.770 0.792 0.735 0.716 0.754 0.761  0.745    4.75
 99)  P-DICHLOROBENZENE
           0.732 0.753 0.673 0.715 0.761 0.780 0.725 0.704 0.746 0.752  0.734    4.23
100)  O-DICHLOROBENZENE
           0.638 0.739 0.634 0.684 0.718 0.733 0.678 0.665 0.706 0.715  0.691    5.41
101)  SEC-BUTYLBENZENE
           0.279 0.343 0.289 0.319 0.333 0.341 0.317 0.306 0.323 0.325  0.318    6.61
102)  1,2,3-TRIMETHYLBENZENE
           1.078 1.094 0.958 1.060 1.137 1.163 1.076 1.057 1.118 1.129  1.087    5.28
103)  P-ISOPROPYLTOLUENE
           0.330 0.354 0.319 0.351 0.372 0.383 0.354 0.342 0.361 0.363  0.353    5.38
104)  N-BUTYLBENZENE
           0.300 0.310 0.302 0.317 0.357 0.368 0.345 0.340 0.362 0.364  0.336    7.99
105)  HEXACHLOROETHANE
           0.381 0.371 0.330 0.367 0.438 0.457 0.435 0.435 0.462 0.468  0.415   11.60
106)  HEXACHLOROBUTADIENE
           0.478 0.495 0.442 0.464 0.483 0.503 0.482 0.495 0.533 0.542  0.491    6.07
107)  1,2,4-TRICHLOROBENZENE
           0.484 0.469 0.444 0.485 0.601 0.648 0.626 0.653 0.724 0.760  0.589   19.07
108)  NAPHTHALENE
           1.002 1.026 0.865 1.011 1.370 1.508 1.466 1.522 1.680 1.773  1.322   24.25

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
                      7.365 7.136 5.390 5.515 5.122 4.738 5.018 4.871  5.644   18.16
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M7W577.M          Fri Aug 08 16:10:30 2025
```

Initial Calibration Verification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-ICV577
Lab FileID: 7W16597.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\7w16597.D Vial: 5
Acq On : 7 Aug 2025 6:07 pm Operator: benk
Sample : icv577-10 Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	0.00	3.19
2	T	FREON 115	1.213	1.246	-2.7	95	0.00	1.58
3	T	FREON 152A	0.626	0.611	2.4	97	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.285	-4.8	100	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.329	-1.7	95	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.616	-9.2	102	0.00	1.65
7	T	PROPYLENE	0.810	0.788	2.7	97	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.153	-1.0	94	0.00	1.68
9	T	FREON 114	2.469	2.694	-9.1	101	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.350	-2.0	102	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.267	-4.2	99	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.982	-2.2	99	0.00	1.79
13	T	N-BUTANE	1.625	1.681	-3.4	99	0.00	1.80
14	T	BROMOMETHANE	0.943	0.998	-5.8	103	0.00	1.86
15	T	CHLOROETHANE	0.660	0.669	-1.4	99	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.479	-8.4	103	0.00	1.93
17	T	ACETONITRILE	1.136	1.096	3.5	103	0.00	2.00
18	T	ACROLEIN	0.540	0.545	-0.9	99	0.00	2.04
19	T	FREON 123	2.303	2.334	-1.3	94	0.00	2.05
20	T	FREON 123A	1.364	1.283	5.9	89	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.842	-9.3	101	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.550	-15.7	109	0.00	2.14
23	T	ACETONE	0.603	0.625	-3.6	97	0.00	2.07
24	T	PENTANE	1.194	1.175	1.6	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.479	-3.6	96	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	1.009	-1.8	97	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.756	2.0	91	0.00	2.46
28	T	ETHANOL	0.587	0.617	-5.1	103	0.00	1.93
29	T	BROMOETHENE	0.947	0.979	-3.4	96	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.867	-2.4	97	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.978	-0.6	99	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.547	-3.2	97	0.00	2.41
33	T	FREON 113	1.493	1.611	-7.9	99	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	1.105	-1.3	96	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	3.094	-12.3	109	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	3.270	-5.4	100	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.589	-17.1	108	0.00	3.47
38	T	HEXANE	2.090	2.121	-1.5	98	0.00	3.24
39	T	VINYL ACETATE	0.298	0.316	-6.0	99	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.238	-6.1	99	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.578	-1.4	99	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.188	-4.9	100	0.00	3.12

Initial Calibration Verification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-ICV577
Lab FileID: 7W16597.D

43	T	DIISOPROPYL ETHER	0.593	0.628	-5.9	101	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.405	-1.0	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.624	-3.8	98	0.00	3.24
46	T	CHLOROFORM	2.183	2.360	-8.1	100	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.482	-6.1	100	0.00	3.74
48	T	1,1,1-TRICHLOROETHANE	2.300	2.477	-7.7	100	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.593	-8.8	98	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.858	-9.5	100	0.00	3.66
51	t	BENZENE	3.348	3.478	-3.9	100	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.313	-6.8	100	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.159	-8.9	100	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.328	-5.1	99	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.290	-5.1	99	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.267	-0.4	98	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.656	-6.3	99	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.555	-10.1	101	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.381	-2.3	100	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.175	-18.2	106	0.00	5.02
62	T	HEPTANE	0.446	0.460	-3.1	99	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.270	-7.6	101	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.277	-3.7	101	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.423	0.0	91	0.00	5.94
66	T	TOLUENE	0.794	0.843	-6.2	100	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.426	-7.0	98	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.415	-8.6	96	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.247	-9.3	99	0.00	6.77
70	T	2-HEXANONE	0.373	0.368	1.3	103	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.451	-7.9	99	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.309	-6.6	99	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.523	-13.7	101	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.437	-6.8	98	0.00	8.00
75	T	OCTANE	0.597	0.635	-6.4	100	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.398	-10.9	99	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.728	-6.6	99	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.197	-7.0	99	0.00	10.92
80	t	M,P-XYLENE	0.907	0.962	-6.1	99	0.00	11.35
81	t	O-XYLENE	0.880	0.951	-8.1	100	0.00	12.28
82	T	STYRENE	0.660	0.702	-6.4	94	0.00	12.07
83	T	NONANE	0.685	0.720	-5.1	98	0.00	13.40
84	T	BROMOFORM	0.422	0.500	-18.5	103	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.683	-8.4	98	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.538	-8.9	98	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.816	-1.4	98	0.00	13.32
88	T	ISOPROPYLBENZENE	0.335	0.363	-8.4	99	0.00	13.79
89	T	BROMOBENZENE	0.643	0.682	-6.1	99	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.338	-8.3	98	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.388	-9.3	98	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.399	-6.5	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.162	-6.2	97	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.522	3.7	85	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.280	-4.9	97	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.161	-7.1	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.883	-0.8	85	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.774	-3.9	96	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.756	-3.0	95	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.724	-4.8	97	0.00	16.99

Initial Calibration Verification

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Sample: V7W577-ICV577
Lab FileID: 7W16597.D

101	T	SEC-BUTYLBENZENE	0.318	0.341	-7.2	98	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.159	-6.6	98	0.00	16.94
103	T	P-ISOPROPYLTOLUENE	0.353	0.382	-8.2	98	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.361	-7.4	96	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	88	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.473	3.7	92	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.619	-5.1	94	0.00	18.31
108	T	NAPHTHALENE	1.322	1.417	-7.2	92	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	98	0.00	3.19
110		TVHC as equiv Pentane	5.644	5.524	2.1	98	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Fri Aug 08 16:10:52 2025

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17473.D Vial: 2
Acq On : 26 Sep 2025 11:04 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	105	0.00	3.19
2	T	FREON 115	1.213	1.348	-11.1	110	0.00	1.58
3	T	FREON 152A	0.626	0.642	-2.6	109	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.271	0.4	102	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.425	-9.0	109	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.356	1.6	99	0.00	1.65
7	T	PROPYLENE	0.810	0.774	4.4	103	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.002	6.1	94	0.00	1.69
9	T	FREON 114	2.469	2.380	3.6	96	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.267	22.2	83	0.00	1.69
11	T	VINYL CHLORIDE	1.216	0.990	18.6	83	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.789	17.9	85	0.00	1.79
13	T	N-BUTANE	1.625	1.307	19.6	83	0.00	1.80
14	T	BROMOMETHANE	0.943	0.881	6.6	97	0.00	1.86
15	T	CHLOROETHANE	0.660	0.558	15.5	89	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.107	7.8	94	0.00	1.93
17	T	ACETONITRILE	1.136	0.823	27.6	83	0.00	2.00
18	T	ACROLEIN	0.540	0.421	22.0	82	0.00	2.04
19	T	FREON 123	2.303	2.179	5.4	95	0.00	2.05
20	T	FREON 123A	1.364	1.343	1.5	100	0.00	2.07
21	T	TRICHLOROFLUOROMETHANE	2.601	2.684	-3.2	102	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	1.930	12.4	89	0.00	2.14
23	T	ACETONE	0.603	0.508	15.8	84	0.00	2.07
24	T	PENTANE	1.194	0.971	18.7	86	0.00	2.24
25	T	IODOMETHANE	2.393	2.426	-1.4	101	0.00	2.31
26	T	1,1-DICHLOROETHYLENE	0.991	0.912	8.0	94	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.397	14.8	85	0.00	2.47
28	T	ETHANOL	0.587	0.528	10.1	95	0.00	1.94
29	T	BROMOETHENE	0.947	0.914	3.5	97	0.00	2.01
30	T	ACRYLONITRILE	0.847	0.728	14.0	87	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.847	12.9	92	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.448	15.5	85	0.00	2.41
33	T	FREON 113	1.493	1.560	-4.5	103	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.923	15.4	86	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.016	26.8	76	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.792	10.0	92	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.482	4.2	95	0.00	3.47
38	T	HEXANE	2.090	1.901	9.0	94	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	96	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.002	5.1	95	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.523	8.2	96	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.098	3.0	99	0.00	3.12

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.522	12.0	90	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.378	5.7	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.289	9.5	92	0.00	3.24
46	T	CHLOROFORM	2.183	2.158	1.1	98	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.161	7.6	94	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.281	0.8	99	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.508	-5.2	102	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.592	6.2	92	0.00	3.66
51	t	BENZENE	3.348	3.151	5.9	97	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	103	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.289	1.4	97	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.145	0.7	96	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.315	-1.0	99	0.00	5.02
56	T	1,2-DICHLOROPROPANE	0.276	0.263	4.7	94	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.320	-20.3	124	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.576	6.6	91	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.523	-3.8	99	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.242	8.0	94	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.149	-0.7	95	0.00	5.03
62	T	HEPTANE	0.446	0.408	8.5	92	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.241	4.0	95	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.235	12.0	90	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.419	0.9	94	0.00	5.94
66	T	TOLUENE	0.794	0.782	1.5	97	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.402	-1.0	96	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.381	0.3	92	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.231	-2.2	97	0.00	6.77
70	T	2-HEXANONE	0.373	0.308	17.4	90	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.403	3.6	92	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.348	-20.0	117	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.519	-12.8	105	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.417	-2.0	98	0.00	8.00
75	T	OCTANE	0.597	0.552	7.5	91	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	102	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.371	-3.3	96	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.688	-0.7	97	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.127	-0.7	97	0.00	10.92
80	t	M,P-XYLENE	0.907	0.908	-0.1	97	0.00	11.35
81	t	O-XYLENE	0.880	0.887	-0.8	97	0.00	12.28
82	T	STYRENE	0.660	0.689	-4.4	96	0.00	12.07
83	T	NONANE	0.685	0.636	7.2	90	0.00	13.40
84	T	BROMOFORM	0.422	0.614	-45.5#	132	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.627	0.5	94	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.496	-0.4	94	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.806	-0.1	101	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.334	0.3	95	0.00	13.78
89	T	BROMOBENZENE	0.643	0.623	3.1	94	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.322	-3.2	97	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.367	-3.4	96	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.345	-2.4	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.126	-2.9	98	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.560	-3.3	95	0.00	16.18
95	T	TERT-BUTYLBENZENE	0.267	0.251	6.0	90	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.121	-3.4	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.818	6.6	82	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.758	-1.7	98	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.743	-1.2	97	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.700	-1.3	97	0.00	16.99

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.304	4.4	91	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.099	-1.1	96	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.342	3.1	91	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.332	1.2	92	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.440	-6.0	98	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.799	-62.7#	162#	-0.01	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.817	-38.7#	129	0.00	18.31
108	T	NAPHTHALENE	1.322	1.545	-16.9	104	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	105	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.772	15.5	91	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Sep 29 17:09:51 2025

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17801.D Vial: 1
Acq On : 13 Oct 2025 11:18 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	121	0.00	3.19
2	T	FREON 115	1.213	1.274	-5.0	120	0.00	1.58
3	T	FREON 152A	0.626	0.645	-3.0	127	0.00	1.60
4	T	CHLORODIFLUOROMETHANE	0.272	0.278	-2.2	120	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.370	-4.8	121	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.379	0.7	115	0.00	1.64
7	T	PROPYLENE	0.810	0.764	5.7	117	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.069	2.9	112	0.00	1.68
9	T	FREON 114	2.469	2.336	5.4	108	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.270	21.3	97	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.018	16.3	98	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.790	17.8	99	0.00	1.78
13	T	N-BUTANE	1.625	1.323	18.6	97	0.00	1.80
14	T	BROMOMETHANE	0.943	0.867	8.1	110	0.00	1.86
15	T	CHLOROETHANE	0.660	0.566	14.2	103	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.179	4.7	112	0.00	1.93
17	T	ACETONITRILE	1.136	0.822	27.6	96	0.00	2.00
18	T	ACROLEIN	0.540	0.416	23.0	93	0.00	2.03
19	T	FREON 123	2.303	2.148	6.7	107	0.00	2.05
20	T	FREON 123A	1.364	1.338	1.9	114	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.670	-2.7	117	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.103	4.6	111	0.00	2.14
23	T	ACETONE	0.603	0.521	13.6	100	0.00	2.07
24	T	PENTANE	1.194	0.947	20.7	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.395	-0.1	115	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.920	7.2	109	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.401	14.6	98	0.00	2.46
28	T	ETHANOL	0.587	0.454	22.7	94	0.00	1.94
29	T	BROMOETHENE	0.947	0.905	4.4	110	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.718	15.2	99	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.841	13.5	105	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.452	14.7	99	0.00	2.41
33	T	FREON 113	1.493	1.561	-4.6	119	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.918	15.9	99	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.179	20.9	95	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.838	8.5	107	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.476	5.4	108	0.00	3.47
38	T	HEXANE	2.090	1.897	9.2	108	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	110	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	1.925	8.7	105	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.507	11.1	107	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.078	4.8	112	0.00	3.12

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.536	9.6	106	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.385	4.0	108	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.343	7.4	108	0.00	3.23
46	T	CHLOROFORM	2.183	2.141	1.9	112	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.186	6.5	109	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.290	0.4	115	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.499	-4.9	117	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.640	3.4	109	0.00	3.66
51	t	BENZENE	3.348	3.068	8.4	109	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	119	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.280	4.4	108	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.142	2.7	108	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.307	1.6	112	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.267	3.3	110	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.321	-20.7	143#	0.00	4.75
58	T	ETHYL ACRYLATE	0.617	0.588	4.7	107	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.515	-2.2	113	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.250	7.4	109	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.151	-2.0	111	0.00	5.03
62	T	HEPTANE	0.446	0.407	8.7	106	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.239	4.8	108	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.242	9.4	107	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.417	1.4	108	0.00	5.94
66	T	TOLUENE	0.794	0.769	3.1	110	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.390	2.0	108	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.387	-1.3	108	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.227	-0.4	110	0.00	6.77
70	T	2-HEXANONE	0.373	0.318	14.7	107	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.401	4.1	106	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.356	-22.8	138	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.515	-12.0	120	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.414	-1.2	112	0.00	8.00
75	T	OCTANE	0.597	0.550	7.9	105	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00	9.96
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.361	-0.6	111	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.661	3.2	111	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.091	2.5	111	0.00	10.92
80	t	M,P-XYLENE	0.907	0.883	2.6	112	0.00	11.35
81	t	O-XYLENE	0.880	0.862	2.0	111	0.00	12.27
82	T	STYRENE	0.660	0.663	-0.5	110	0.00	12.07
83	T	NONANE	0.685	0.617	9.9	104	0.00	13.40
84	T	BROMOFORM	0.422	0.611	-44.8#	155#	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.611	3.0	108	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.484	2.0	109	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.817	-1.5	121	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.323	3.6	109	0.00	13.79
89	T	BROMOBENZENE	0.643	0.604	6.1	107	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.309	1.0	110	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.352	0.8	109	0.00	15.13
92	T	4-ETHYLTOLUENE	1.314	1.312	0.2	113	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.087	0.6	112	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.540	0.4	109	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.237	11.2	101	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.091	-0.6	111	0.00	16.51
97	T	BENZYL CHLORIDE	0.876	0.828	5.5	98	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.733	1.6	112	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.718	2.2	111	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.682	1.3	112	0.00	16.99

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.294	7.5	104	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.068	1.7	111	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.328	7.1	103	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.317	5.7	104	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	108	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.775	-57.8#	186#	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.781	-32.6#	145#	-0.01	18.31
108	T	NAPHTHALENE	1.322	1.446	-9.4	116	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	121	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.664	17.4	102	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Oct 13 21:33:39 2025

6.9.7

6

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W655-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18765.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...2025\V7W655\7w18765.D Vial: 1
Acq On : 24 Nov 2025 9:52 am Operator: williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	110	0.00	3.19
2	T	FREON 115	1.213	1.289	-6.3	110	0.00	1.58
3	T	FREON 152A	0.626	0.524	16.3	93	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.267	1.8	105	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.343	-2.8	108	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.604	-8.7	114	0.00	1.64
7	T	PROPYLENE	0.810	0.602	25.7	84	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.409	-13.0	119	0.00	1.68
9	T	FREON 114	2.469	2.415	2.2	102	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.314	8.5	102	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.158	4.8	102	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.925	3.7	105	0.00	1.79
13	T	N-BUTANE	1.625	1.354	16.7	90	0.00	1.80
14	T	BROMOMETHANE	0.943	0.934	1.0	108	0.00	1.86
15	T	CHLOROETHANE	0.660	0.597	9.5	99	0.00	1.90
16	T	DICHLOROFLUOROMETHANE	2.286	2.265	0.9	105	0.00	1.93
17	T	ACETONITRILE	1.136	0.891	21.6	94	0.00	1.99
18	T	ACROLEIN	0.540	0.529	2.0	107	0.00	2.03
19	T	FREON 123	2.303	2.164	6.0	98	0.00	2.05
20	T	FREON 123A	1.364	1.605	-17.7	124	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	3.160	-21.5	126	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.254	-2.3	109	0.00	2.14
23	T	ACETONE	0.603	0.634	-5.1	110	0.00	2.07
24	T	PENTANE	1.194	1.035	13.3	96	0.00	2.24
25	T	IODOMETHANE	2.393	2.697	-12.7	117	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.989	0.2	106	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.433	13.5	90	0.00	2.46
28	T	ETHANOL	0.587	0.510	13.1	96	0.00	1.93
29	T	BROMOETHENE	0.947	0.988	-4.3	109	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.887	-4.7	111	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.850	12.6	96	0.00	2.36
32	T	3-CHLOROPROPENE	0.530	0.441	16.8	88	0.00	2.41
33	T	FREON 113	1.493	1.705	-14.2	118	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	1.018	6.7	99	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.501	9.2	99	0.00	2.33
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.555	17.7	88	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.377	25.0	77	0.00	3.47
38	T	HEXANE	2.090	1.806	13.6	94	0.00	3.24
39	T	VINYL ACETATE	0.298	0.228	23.5	81	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.079	1.4	103	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.406	28.8	78	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	0.955	15.6	90	0.00	3.11

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W655-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18765.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.510	14.0	92	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.346	13.7	88	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.184	13.6	91	0.00	3.24
46	T	CHLOROFORM	2.183	1.980	9.3	94	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.059	12.0	94	0.00	3.74
48	T	1,1,1-TRICHLOROETHANE	2.300	2.349	-2.1	107	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.709	-13.7	115	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.671	1.5	101	0.00	3.66
51	t	BENZENE	3.348	2.442	27.1	79	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	104	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.236	19.5	80	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.112	23.3	75	0.00	4.58
55	T	TRICHLOROETHENE	0.312	0.298	4.5	95	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.239	13.4	86	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.274	-3.0	107	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.568	7.9	90	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.499	1.0	96	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.212	10.2	92	0.00	5.10
61	T	1,4-DIOXANE	0.148	0.125	15.5	80	0.00	5.02
62	T	HEPTANE	0.446	0.361	19.1	82	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.196	21.9	78	0.00	5.31
64	T	METHYL ISOBUTYL KETONE	0.267	0.231	13.5	89	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.364	13.9	83	0.00	5.94
66	T	TOLUENE	0.794	0.710	10.6	89	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.341	14.3	83	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.353	7.6	86	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.193	14.6	82	0.00	6.77
70	T	2-HEXANONE	0.373	0.303	18.8	89	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.335	19.9	77	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.325	-12.1	111	0.00	8.84
73	T	DIBROMOCHLOROMETHANE	0.460	0.559	-21.5	114	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.404	1.2	96	0.00	8.00
75	T	OCTANE	0.597	0.485	18.8	81	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	106	0.00	9.96
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.395	-10.0	106	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.666	2.5	98	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.013	9.5	90	0.00	10.92
80	t	M,P-XYLENE	0.907	0.845	6.8	94	0.00	11.35
81	t	O-XYLENE	0.880	0.831	5.6	94	0.00	12.27
82	T	STYRENE	0.660	0.619	6.2	90	0.00	12.06
83	T	NONANE	0.685	0.549	19.9	81	0.00	13.40
84	T	BROMOFORM	0.422	0.515	-22.0	115	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.527	16.3	82	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.428	13.4	85	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.760	5.6	99	0.00	13.32
88	T	ISOPROPYLBENZENE	0.335	0.334	0.3	99	0.00	13.78
89	T	BROMOBENZENE	0.643	0.539	16.2	84	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.319	-2.2	100	0.00	14.77
91	T	N-PROPYLBENZENE	0.355	0.364	-2.5	99	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.272	3.2	96	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.082	1.1	98	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.558	-3.0	99	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.259	3.0	97	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.116	-3.0	100	0.00	16.51
97	T	BENZYL CHLORIDE	0.876	0.841	4.0	87	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.773	-3.8	103	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.763	-4.0	104	0.00	16.66
100	T	O-DICHLOROBENZENE	0.691	0.718	-3.9	104	0.00	16.98

Continuing Calibration Summary

Job Number: JE23790 **Sample:** V7W655-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18765.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.314	1.3	98	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.093	-0.6	99	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.354	-0.3	98	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.345	-2.7	99	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.426	-2.7	99	0.00	17.55
106	T	HEXACHLOROBUTADIENE	0.491	0.534	-8.8	112	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.661	-12.2	108	-0.02	18.31
108	T	NAPHTHALENE	1.322	1.630	-23.3	114	-0.01	18.35
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	110	0.00	3.19
110		TVHC as equiv Pentane	5.644	5.233	7.3	104	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Wed Nov 26 01:55:42 2025

Run Sequence Report

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2292	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2292-BFB	5W59768.D	11/06/25 21:59	n/a	BFB Tune
V5W2292-IC2292	5W59769.D	11/06/25 22:35	n/a	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25 23:11	n/a	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25 23:50	n/a	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25 03:41	n/a	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25 06:57	n/a	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	n/a	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25 08:12	n/a	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25 08:54	n/a	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25 09:38	n/a	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25 10:24	n/a	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25 12:25	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2301	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2301-BFB	5W60000.D	11/24/25 09:12	n/a	BFB Tune
V5W2301-CC2292	5W60001.D	11/24/25 09:49	n/a	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25 12:02	n/a	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25 12:39	n/a	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25 14:27	n/a	Method Blank
ZZZZZZ	5W60006.D	11/24/25 15:18	n/a	(unrelated sample)
JE23789-3	5W60007.D	11/24/25 15:56	n/a	(used for QC only; not part of job JE23790)
JE23789-3DUP	5W60008.D	11/24/25 16:33	n/a	Duplicate
JE23790-1	5W60009.D	11/24/25 17:15	n/a	SS-7
JE23790-3	5W60010.D	11/24/25 17:58	n/a	SS-8
ZZZZZZ	5W60011.D	11/24/25 18:41	n/a	(unrelated sample)
ZZZZZZ	5W60012.D	11/24/25 19:25	n/a	(unrelated sample)
ZZZZZZ	5W60013.D	11/24/25 20:08	n/a	(unrelated sample)
ZZZZZZ	5W60014.D	11/24/25 20:52	n/a	(unrelated sample)
ZZZZZZ	5W60015.D	11/24/25 21:35	n/a	(unrelated sample)
ZZZZZZ	5W60016.D	11/24/25 22:19	n/a	(unrelated sample)
ZZZZZZ	5W60017.D	11/24/25 23:02	n/a	(unrelated sample)
ZZZZZZ	5W60018.D	11/24/25 23:46	n/a	(unrelated sample)
ZZZZZZ	5W60019.D	11/25/25 00:29	n/a	(unrelated sample)
ZZZZZZ	5W60020.D	11/25/25 01:14	n/a	(unrelated sample)
ZZZZZZ	5W60021.D	11/25/25 01:58	n/a	(unrelated sample)
ZZZZZZ	5W60022.D	11/25/25 02:43	n/a	(unrelated sample)
ZZZZZZ	5W60023.D	11/25/25 03:27	n/a	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25 04:12	n/a	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25 05:54	n/a	(unrelated sample)
ZZZZZZ	5W60027.D	11/25/25 06:37	n/a	(unrelated sample)
JE23789-3	5W60028.D	11/25/25 07:20	n/a	(used for QC only; not part of job JE23790)
ZZZZZZ	5W60029.D	11/25/25 07:57	n/a	(unrelated sample)
ZZZZZZ	5W60030.D	11/25/25 08:34	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W577	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W577-BFB	7W16573.D	08/07/25 02:05	n/a	BFB Tune
V7W577-IC577	7W16576.D	08/07/25 04:00	n/a	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25 04:38	n/a	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25 08:36	n/a	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25 09:13	n/a	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25 12:29	n/a	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25 13:07	n/a	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25 13:47	n/a	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25 14:30	n/a	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25 15:15	n/a	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25 16:02	n/a	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25 18:07	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W613 **Method:** TO-15 **Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W613-BFB	7W17472.D	09/26/25 10:25	n/a	BFB Tune
V7W613-CC577	7W17473.D	09/26/25 11:04	n/a	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25 11:54	n/a	Blank Spike
V7W613-BSD	7W17475.D	09/26/25 12:32	n/a	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25 14:01	n/a	Method Blank
ZZZZZZ	7W17478.D	09/26/25 15:51	n/a	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25 16:43	n/a	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25 17:30	n/a	(unrelated sample)
JE19193-2	7W17481.D	09/26/25 18:21	n/a	(used for QC only; not part of job JE23790)
JE19193-2DUP	7W17482.D	09/26/25 19:09	n/a	Duplicate
V7W613-SCC	7W17483.D	09/26/25 19:55	n/a	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25 20:38	n/a	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25 21:22	n/a	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25 22:06	n/a	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25 22:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25 23:33	n/a	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25 00:13	n/a	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25 00:52	n/a	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25 01:31	n/a	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25 02:11	n/a	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25 02:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25 03:29	n/a	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25 04:08	n/a	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25 04:48	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W624	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W624-BFB	7W17800.D	10/13/25 10:41	n/a	BFB Tune
V7W624-CC577	7W17801.D	10/13/25 11:18	n/a	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25 12:00	n/a	Blank Spike
V7W624-BSD	7W17803.D	10/13/25 12:37	n/a	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25 14:03	n/a	Method Blank
ZZZZZZ	7W17806.D	10/13/25 15:24	n/a	(unrelated sample)
JE20702-1	7W17807.D	10/13/25 16:09	n/a	(used for QC only; not part of job JE23790)
JE20702-1DUP	7W17808.D	10/13/25 16:55	n/a	Duplicate
ZZZZZZ	7W17809.D	10/13/25 17:45	n/a	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25 18:38	n/a	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25 19:25	n/a	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25 20:14	n/a	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25 21:05	n/a	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25 21:58	n/a	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25 22:49	n/a	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25 23:42	n/a	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25 00:27	n/a	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25 01:14	n/a	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25 02:02	n/a	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25 02:51	n/a	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25 03:40	n/a	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25 04:19	n/a	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25 04:58	n/a	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25 05:38	n/a	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25 06:17	n/a	(unrelated sample)
ZZZZZZ	7W17826.D	10/14/25 06:55	n/a	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25 07:39	n/a	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25 08:23	n/a	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25 09:07	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JE23790
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W655	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W655-BFB	7W18764.D	11/24/25 09:14	n/a	BFB Tune
V7W655-CC577	7W18765.D	11/24/25 09:52	n/a	Continuing cal 10
V7W655-BS	7W18766.D	11/24/25 10:35	n/a	Blank Spike
V7W655-BSD	7W18767.D	11/24/25 11:15	n/a	Blank Spike Duplicate
V7W655-MB	7W18769.D	11/24/25 12:43	n/a	Method Blank
JE23787-3	7W18776.D	11/24/25 18:48	n/a	(used for QC only; not part of job JE23790)
JE23787-3DUP	7W18777.D	11/24/25 19:27	n/a	Duplicate
ZZZZZZ	7W18778.D	11/24/25 20:12	n/a	(unrelated sample)
ZZZZZZ	7W18779.D	11/24/25 20:56	n/a	(unrelated sample)
ZZZZZZ	7W18780.D	11/24/25 21:35	n/a	(unrelated sample)
ZZZZZZ	7W18781.D	11/24/25 22:19	n/a	(unrelated sample)
ZZZZZZ	7W18783.D	11/24/25 23:51	n/a	(unrelated sample)
ZZZZZZ	7W18784.D	11/25/25 00:38	n/a	(unrelated sample)
JE23790-2	7W18785.D	11/25/25 01:26	n/a	IA-7
JE23790-4	7W18786.D	11/25/25 02:13	n/a	IA-8
ZZZZZZ	7W18787.D	11/25/25 02:51	n/a	(unrelated sample)
ZZZZZZ	7W18788.D	11/25/25 03:31	n/a	(unrelated sample)
ZZZZZZ	7W18789.D	11/25/25 04:10	n/a	(unrelated sample)
ZZZZZZ	7W18790.D	11/25/25 04:50	n/a	(unrelated sample)
ZZZZZZ	7W18791.D	11/25/25 05:30	n/a	(unrelated sample)
ZZZZZZ	7W18792.D	11/25/25 06:09	n/a	(unrelated sample)
ZZZZZZ	7W18793.D	11/25/25 06:49	n/a	(unrelated sample)
ZZZZZZ	7W18794.D	11/25/25 07:36	n/a	(unrelated sample)
ZZZZZZ	7W18795.D	11/25/25 08:15	n/a	(unrelated sample)
ZZZZZZ	7W18796.D	11/25/25 08:52	n/a	(unrelated sample)

MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 16:59

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60009.D
Acq On : 24 Nov 2025 5:15 pm
Operator : benk
Sample : je23790-1
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 16:59:32 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

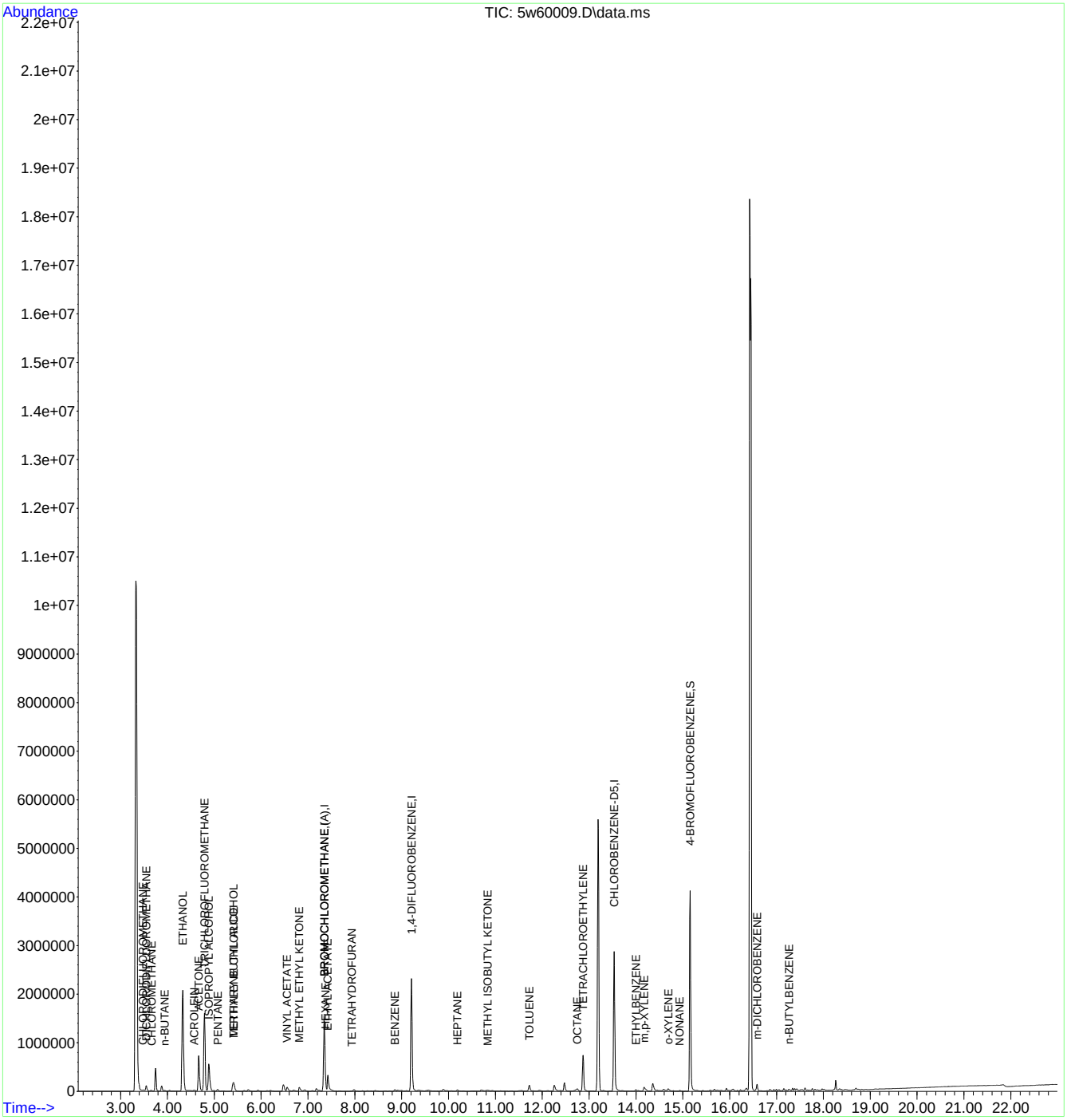
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	467172	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2081525	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	995730	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	467172	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1390292	11.17	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.70%				
Target Compounds							Qvalue
4) CHLORODIFLUOROMETHANE	3.469	67	1436m	0.0991	PPBV		
6) DICHLORODIFLUOROMETHANE	3.549	85	96971	0.7253	PPBV		100
10) CHLOROMETHANE	3.665	52	2729	0.1859	PPBV		90
13) n-BUTANE	3.941	43	12236	0.2748	PPBV		94
18) ACROLEIN	4.571	56	15143	1.0476	PPBV		89
21) TRICHLOROFLUOROMETHANE	4.791	101	1484209	12.9965	PPBV		100
22) ISOPROPYL ALCOHOL	4.883	45	863701	9.4281	PPBV		98
23) ACETONE	4.669	58	359471	19.6189	PPBV	#	77
24) PENTANE	5.072	42	15933	0.3348	PPBV		92
28) ETHANOL	4.326	45	2841369	185.1301	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	18487	0.3944	PPBV		91
35) TERTIARY BUTYL ALCOHOL	5.403	59	279662	2.9854	PPBV		95
37) TETRAHYDROFURAN	7.929	72	1946	0.1073	PPBV	#	5
38) HEXANE	7.379	57	17021	0.2282	PPBV		93
39) VINYL ACETATE	6.559	86	8345	1.1063	PPBV	#	47
41) METHYL ETHYL KETONE	6.816	72	33319	1.8464	PPBV	#	86
44) ETHYL ACETATE	7.421	61	70098	5.0837	PPBV		95
52) BENZENE	8.853	78	35339	0.2534	PPBV		97
62) HEPTANE	10.193	43	16474	0.2053	PPBV		80
64) METHYL ISOBUTYL KETONE	10.841	58	5863	0.1425	PPBV	#	81
66) TOLUENE	11.722	92	61957	0.5944	PPBV		94
73) TETRACHLOROETHYLENE	12.872	164	187634	2.7625	PPBV		98
76) OCTANE	12.750	43	46302	0.4895	PPBV		62
79) ETHYLBENZENE	13.998	91	30774	0.1612	PPBV		95
80) m,p-XYLENE	14.175	106	37872	0.5035	PPBV		98
81) o-XYLENE	14.689	106	15695	0.2228	PPBV		94
83) NONANE	14.934	43	9690	0.1013	PPBV	#	91
97) m-DICHLOROBENZENE	16.586	146	64860	0.4958	PPBV		98
104) n-BUTYLBENZENE	17.265	134	7280	0.1390	PPBV	#	1

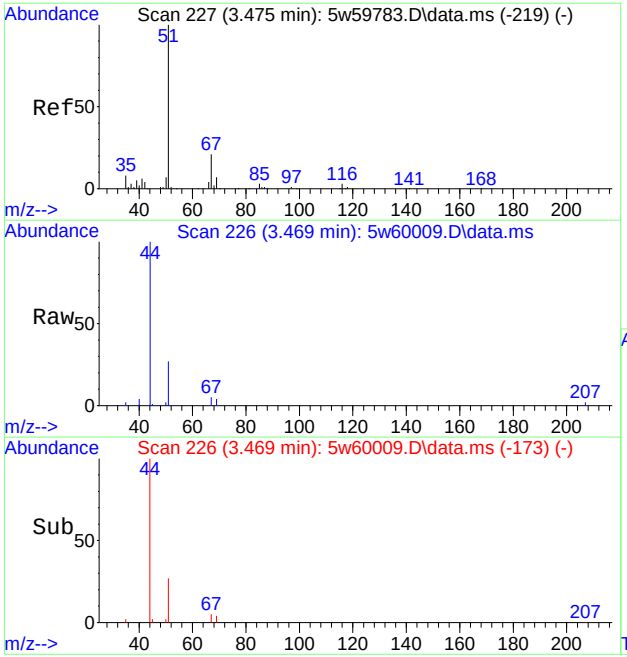
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60009.D
Acq On : 24 Nov 2025 5:15 pm
Operator : benk
Sample : je23790-1
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 16:59:32 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

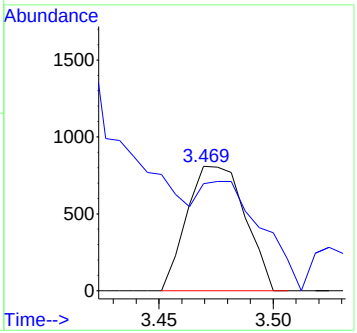


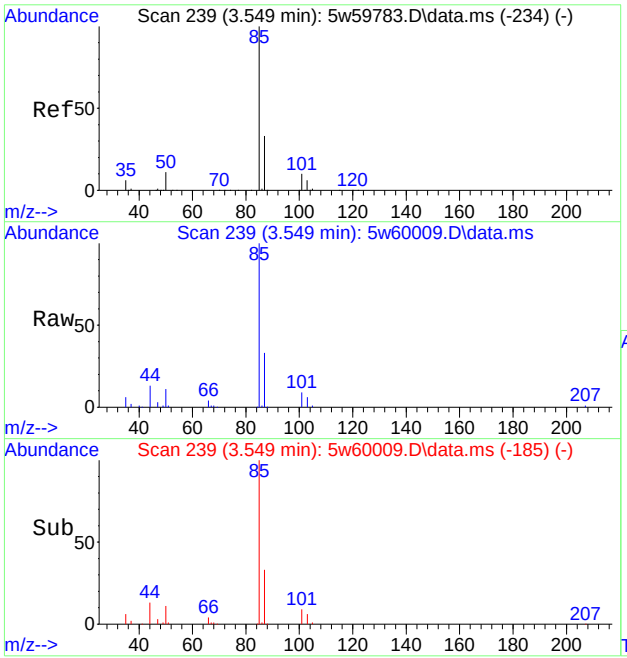


#4
CHLORODIFLUOROMETHANE
Concen: 0.10 PPBV m
RT: 3.469 min Scan# 226
Delta R.T. -0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 67 Resp: 1436

Ion	Ratio	Lower	Upper
67	100		
69	86.0	1.0	61.0#

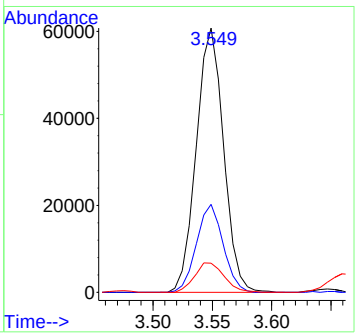


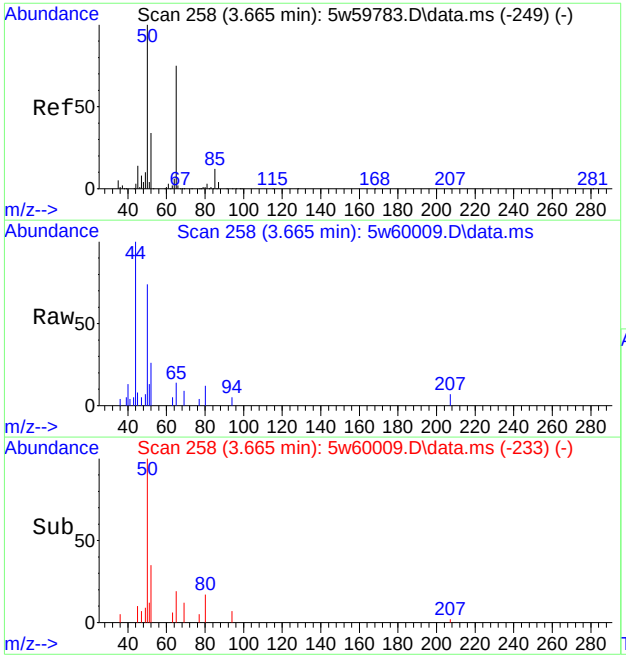


#6
DICHLORODIFLUOROMETHANE
Concen: 0.73 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 85 Resp: 96971

Ion	Ratio	Lower	Upper
85	100		
87	32.5	2.5	62.5
50	12.1	0.0	41.7

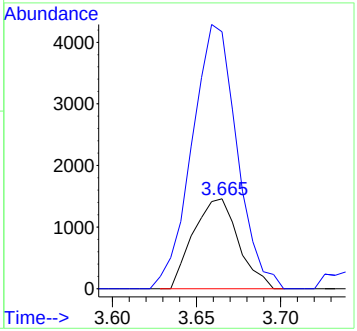


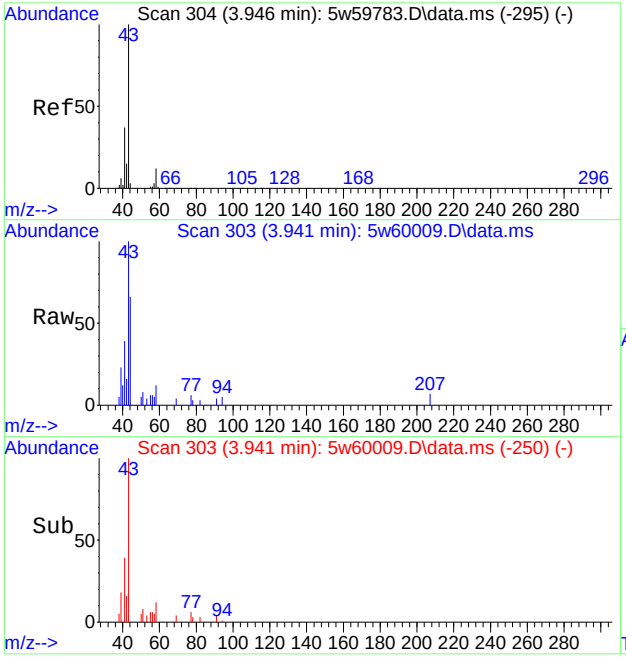


#10
CHLOROMETHANE
Concen: 0.19 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 52 Resp: 2729

Ion	Ratio	Lower	Upper
52	100		
50	278.8	267.9	327.9

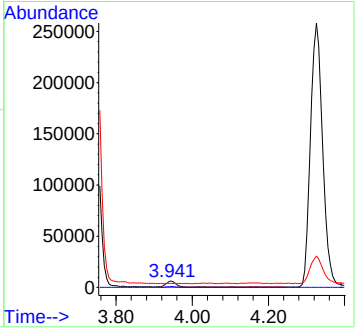


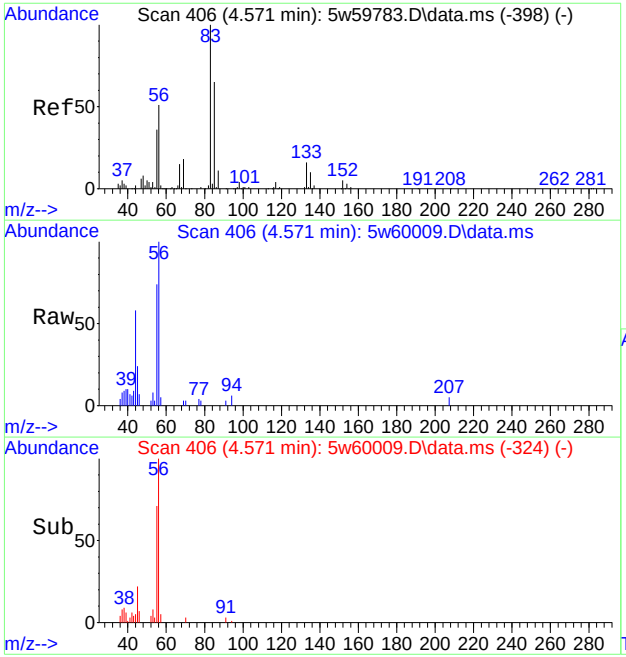


#13
n-BUTANE
Concen: 0.27 PPBV
RT: 3.941 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 43 Resp: 12236

Ion	Ratio	Lower	Upper
43	100		
58	10.2	0.0	42.6
44	6.3	0.0	34.9

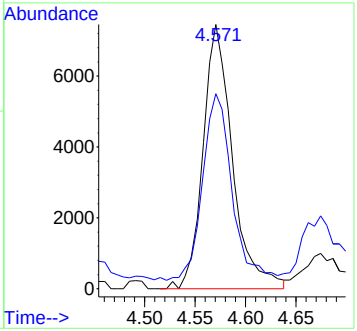


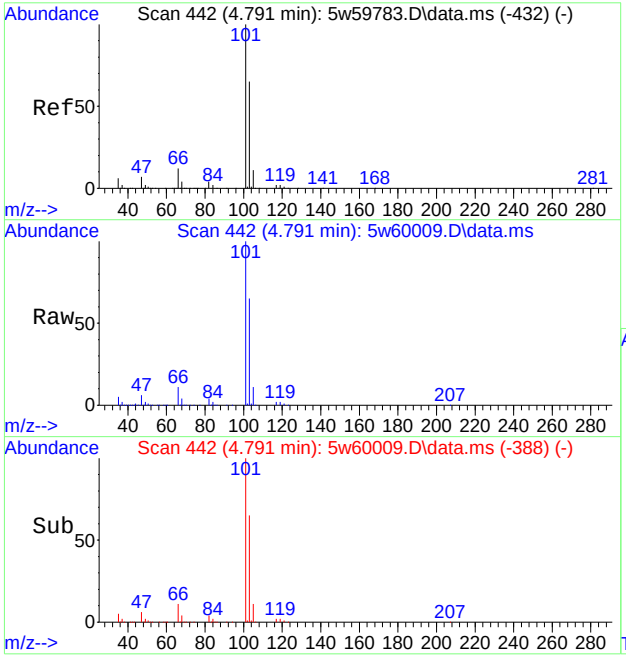


#18
ACROLEIN
Concen: 1.05 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 56 Resp: 15143

Ion	Ratio	Lower	Upper
56	100		
55	75.2	46.6	86.6

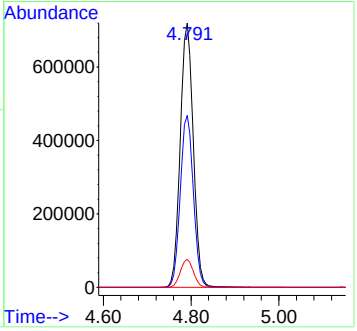


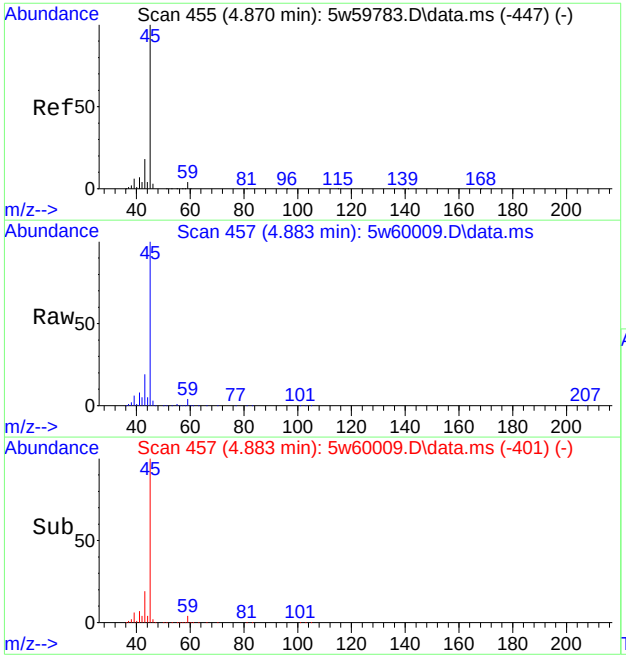


#21
TRICHLOROFLUOROMETHANE
Concen: 13.00 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion:101 Resp: 1484209

Ion	Ratio	Lower	Upper
101	100		
103	65.4	35.0	95.0
105	10.7	0.0	40.7

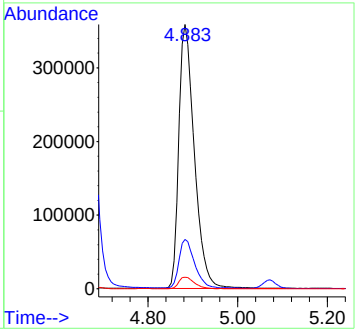


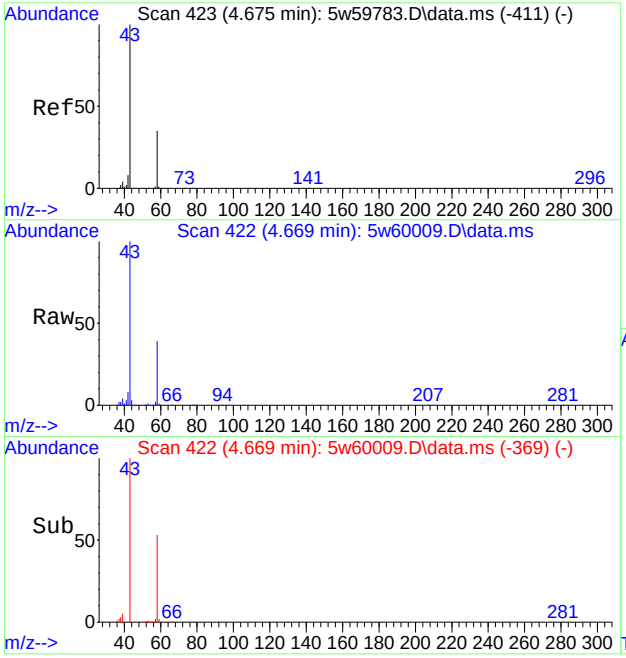


#22
ISOPROPYL ALCOHOL
Concen: 9.43 PPBV
RT: 4.883 min Scan# 457
Delta R.T. 0.013 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 45 Resp: 863701

Ion	Ratio	Lower	Upper
45	100		
43	18.6	0.0	47.8
59	4.4	0.0	34.1

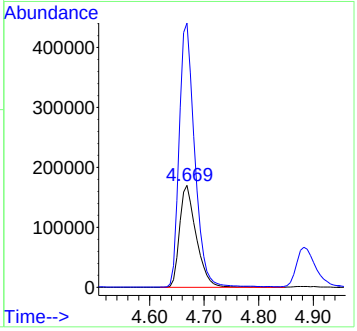


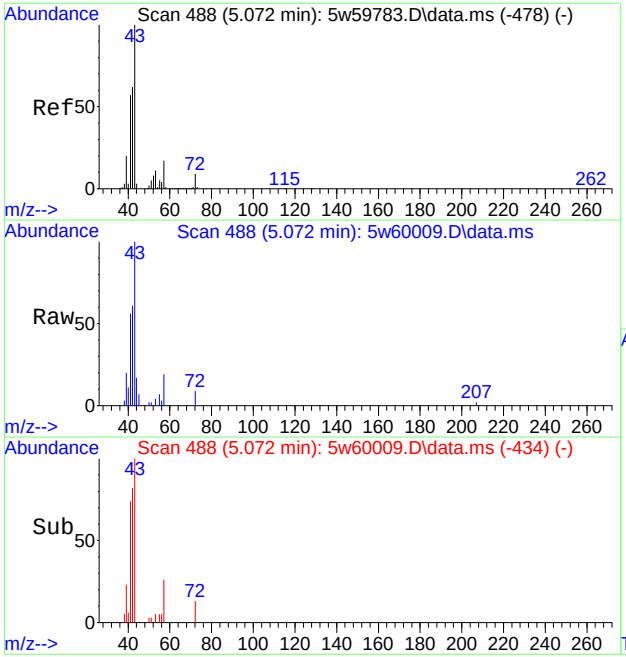


#23
ACETONE
Concen: 19.62 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 58 Resp: 359471

Ion	Ratio	Lower	Upper
58	100		
43	239.8	252.3	312.3#

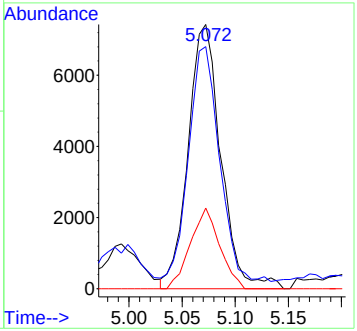


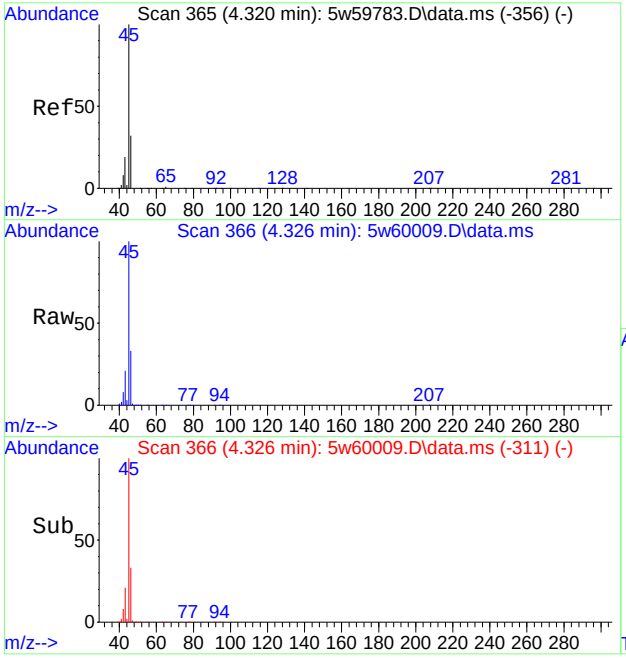


#24
PENTANE
Concen: 0.33 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 42 Resp: 15933

Ion	Ratio	Lower	Upper
42	100		
41	102.6	62.3	122.3
57	27.4	0.0	57.7

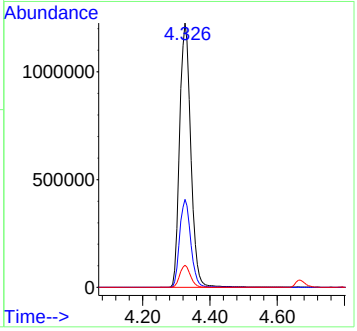


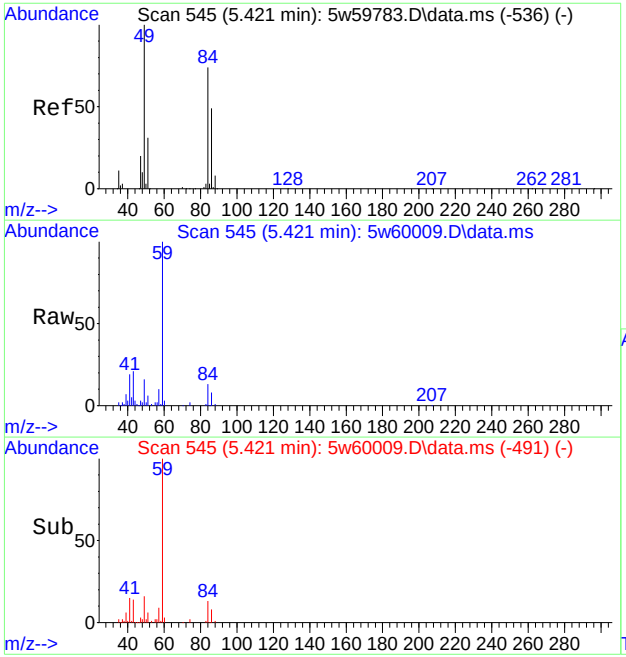


#28
ETHANOL
Concen: 185.13 PPBV
RT: 4.326 min Scan# 366
Delta R.T. 0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 45 Resp: 2841369

Ion	Ratio	Lower	Upper
45	100		
46	33.2	2.0	62.0
42	8.2	0.0	38.5

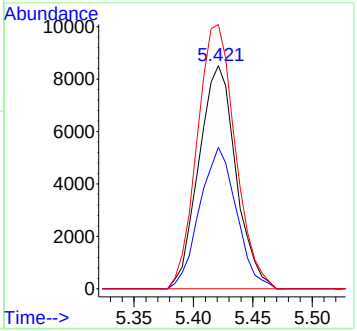


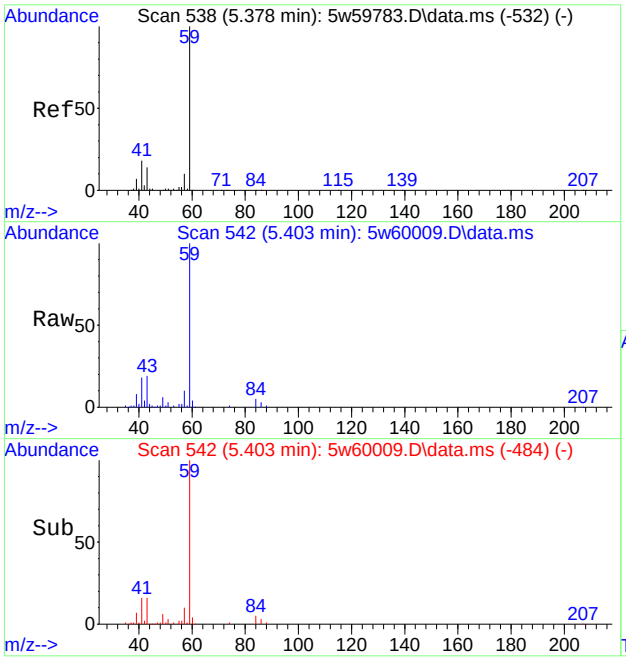


#31
METHYLENE CHLORIDE
Concen: 0.39 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 84 Resp: 18487

Ion	Ratio	Lower	Upper
84	100		
86	62.8	35.2	95.2
49	121.4	105.3	165.3

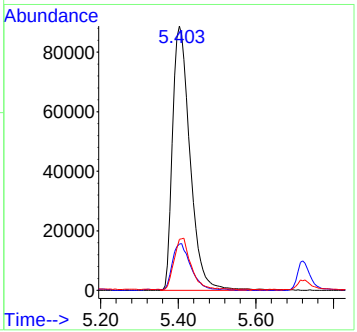


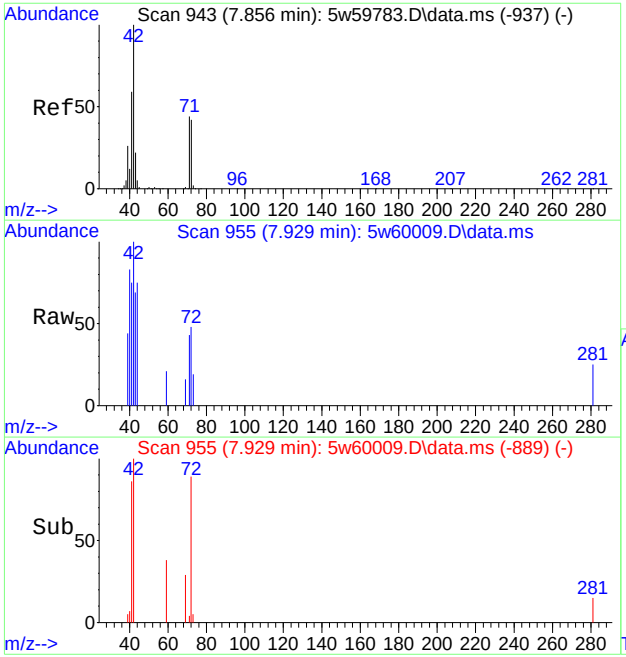


#35
TERTIARY BUTYL ALCOHOL
Concen: 2.99 PPBV
RT: 5.403 min Scan# 542
Delta R.T. 0.025 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 59 Resp: 279662

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	18.9	0.0	44.1

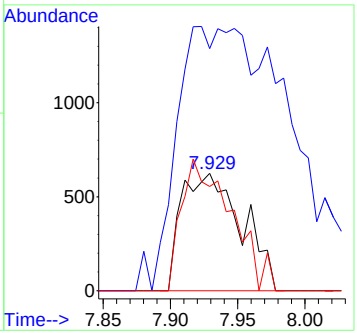


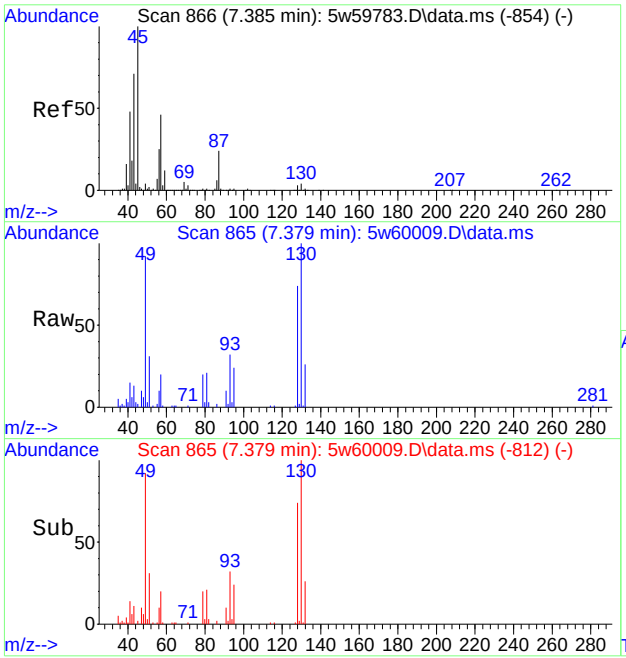


#37
TETRAHYDROFURAN
Concen: 0.11 PPBV
RT: 7.929 min Scan# 955
Delta R.T. 0.073 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 72 Resp: 1946

Ion	Ratio	Lower	Upper
72	100		
42	453.0	202.4	262.4#
71	92.9	71.1	131.1

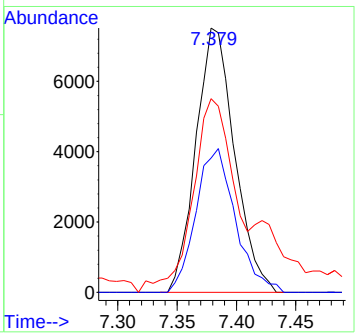




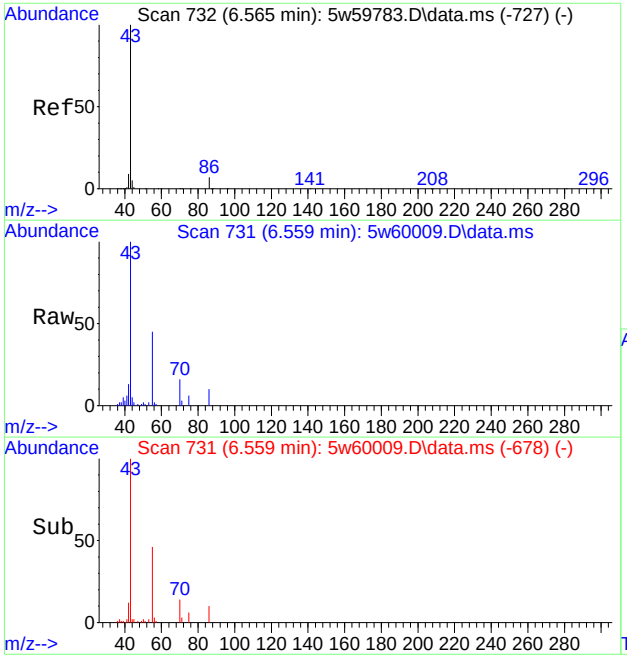
#38
HEXANE
Concen: 0.23 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 57 Resp: 17021

Ion	Ratio	Lower	Upper
57	100		
56	55.5	25.9	85.9
41	115.7	74.7	134.7



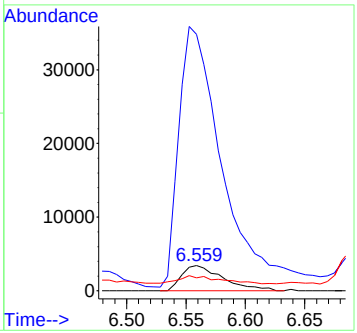
7.11
7

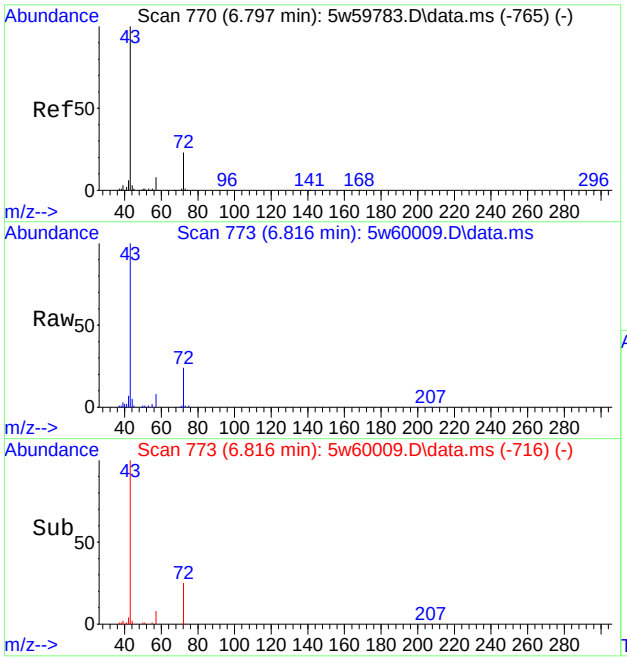


#39
VINYL ACETATE
Concen: 1.11 PPBV
RT: 6.559 min Scan# 731
Delta R.T. -0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 86 Resp: 8345

Ion	Ratio	Lower	Upper
86	100		
43	1105.8	1379.7	1439.7#
44	29.8	36.9	96.9#

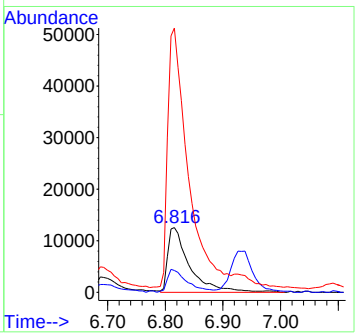


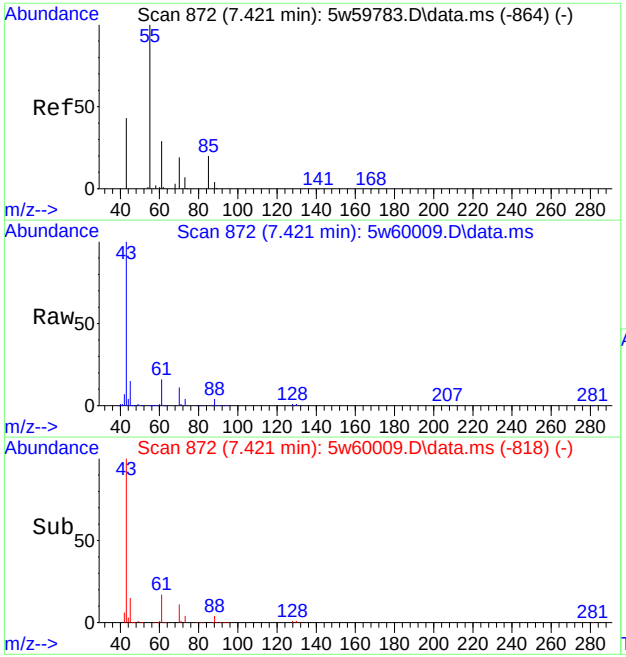


#41
METHYL ETHYL KETONE
Concen: 1.85 PPBV
RT: 6.816 min Scan# 773
Delta R.T. 0.019 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 72 Resp: 33319

Ion	Ratio	Lower	Upper
72	100		
57	34.1	4.8	64.8
43	408.8	415.9	475.9#

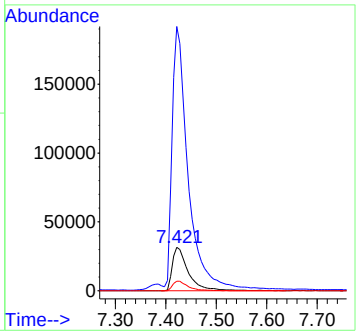


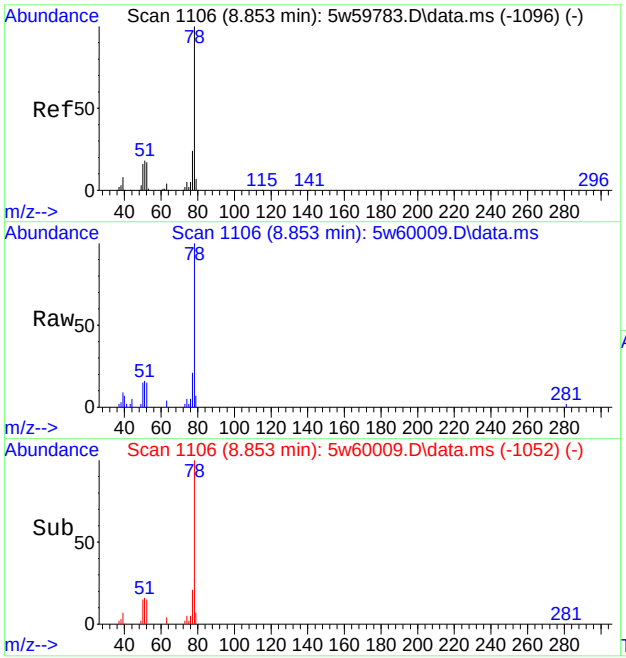


#44
ETHYL ACETATE
Concen: 5.08 PPBV
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 61 Resp: 70098

Ion	Ratio	Lower	Upper
61	100		
43	604.4	560.5	620.5
88	21.6	4.5	64.5

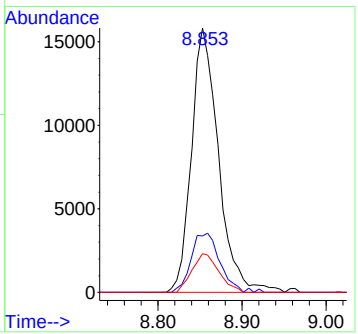


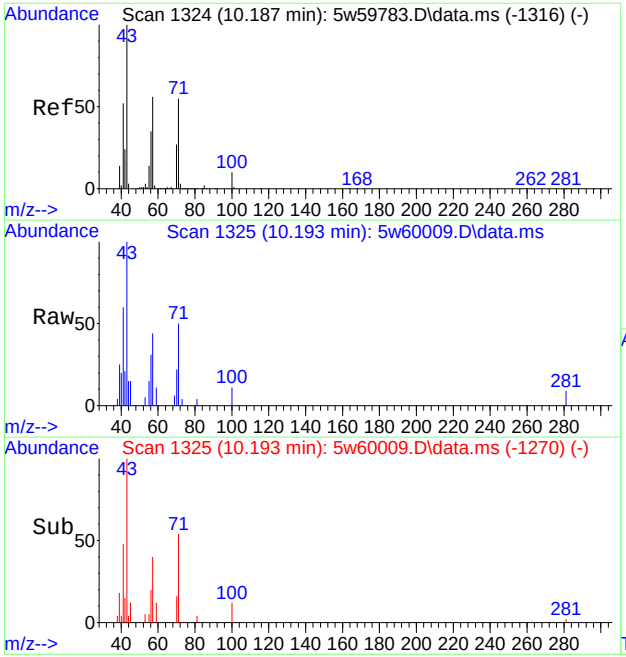


#52
BENZENE
Concen: 0.25 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 78 Resp: 35339

Ion	Ratio	Lower	Upper
78	100		
77	23.6	0.0	53.8
52	14.6	0.0	46.9

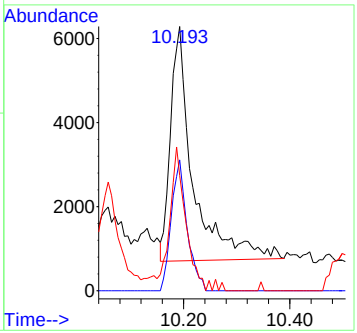


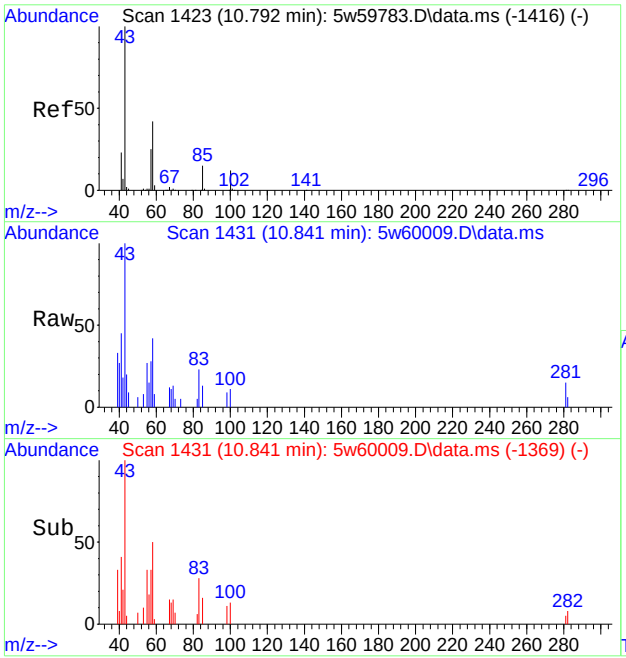


#62
HEPTANE
Concen: 0.21 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 43 Resp: 16474

Ion	Ratio	Lower	Upper
43	100		
71	39.1	24.5	84.5
57	42.6	26.2	86.2

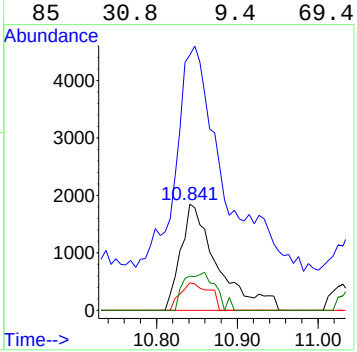


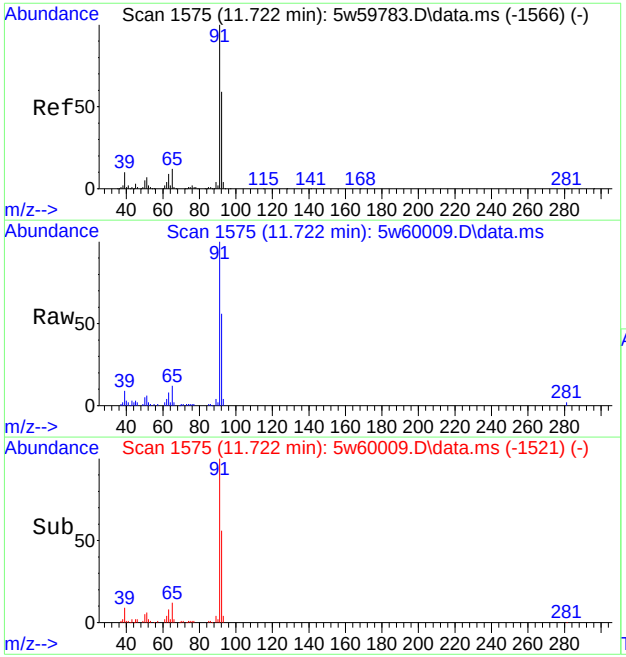


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 10.841 min Scan# 1431
Delta R.T. 0.049 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 58 Resp: 5863

Ion	Ratio	Lower	Upper
58	100		
43	272.4	209.2	269.2#
100	20.5	0.0	58.8
85	30.8	9.4	69.4

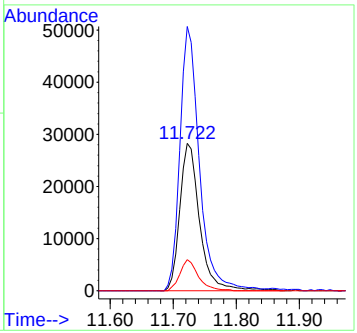


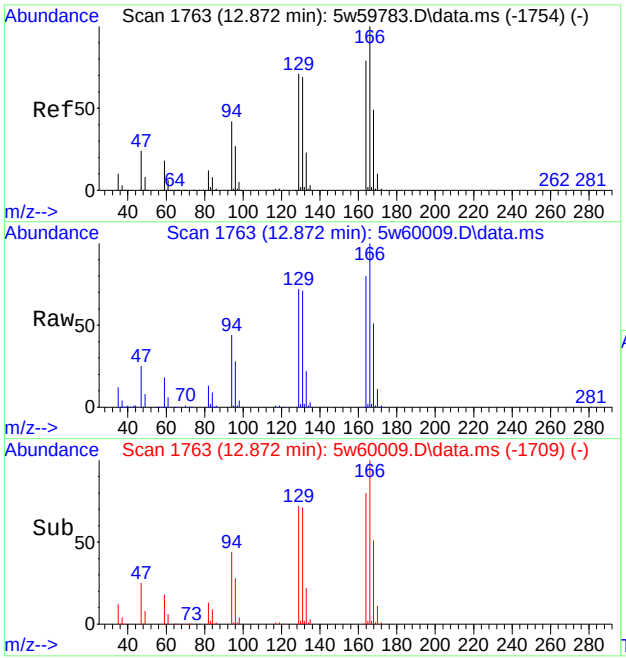


#66
TOLUENE
Concen: 0.59 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 92 Resp: 61957

Ion	Ratio	Lower	Upper
92	100		
91	177.5	140.1	200.1
65	19.7	0.0	53.1

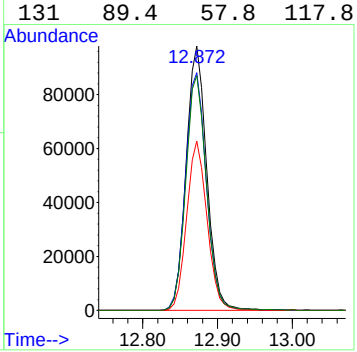


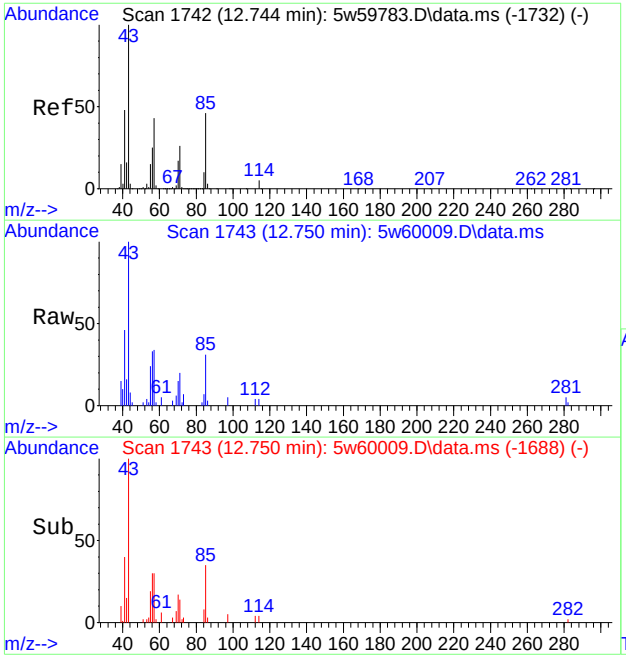


#73
TETRACHLOROETHYLENE
Concen: 2.76 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion:164 Resp: 187634

Ion	Ratio	Lower	Upper
164	100		
129	91.4	59.7	119.7
168	63.4	32.2	92.2
131	89.4	57.8	117.8

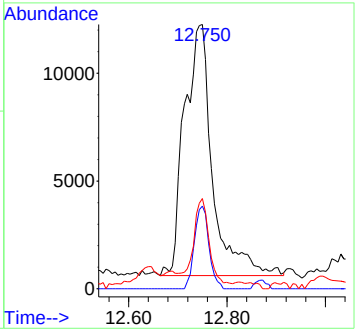


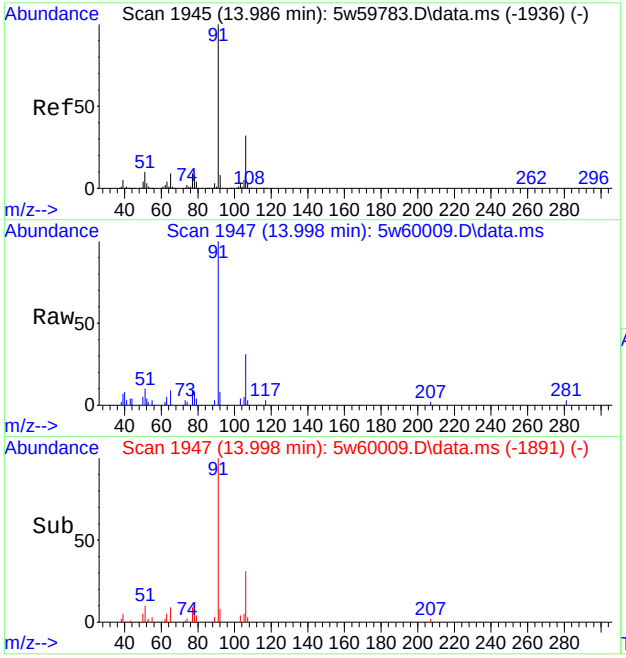


#76
OCTANE
Concen: 0.49 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 43 Resp: 46302

Ion	Ratio	Lower	Upper
43	100		
85	16.9	14.6	74.6
57	22.7	13.7	73.7

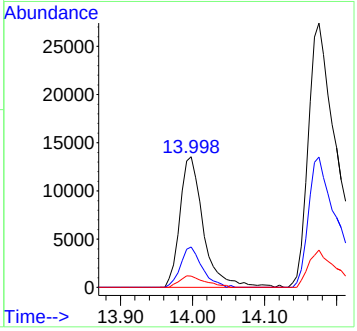


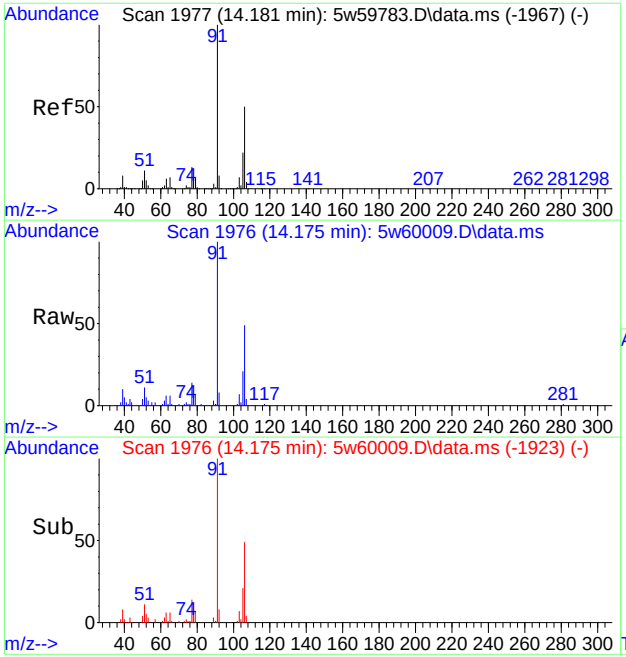


#79
ETHYLBENZENE
Concen: 0.16 PPBV
RT: 13.998 min Scan# 1947
Delta R.T. 0.012 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 91 Resp: 30774

Ion	Ratio	Lower	Upper
91	100		
106	28.4	1.3	61.3
77	9.6	0.0	38.6

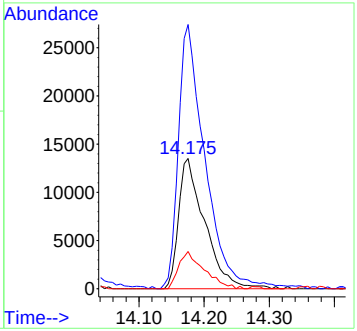


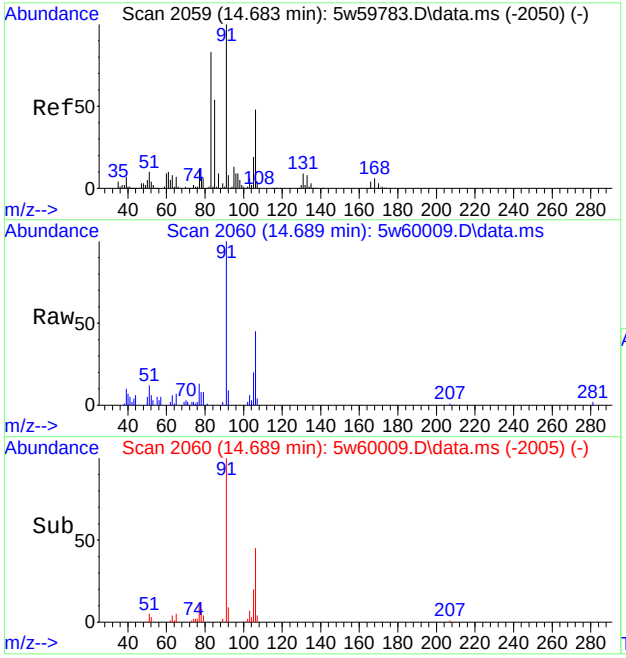


#80
m,p-XYLENE
Concen: 0.50 PPBV
RT: 14.175 min Scan# 1976
Delta R.T. -0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion:106 Resp: 37872

Ion	Ratio	Lower	Upper
106	100		
91	203.0	171.0	231.0
77	28.6	0.0	56.7

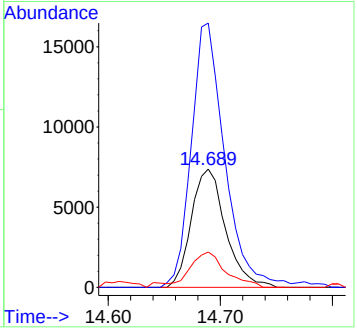


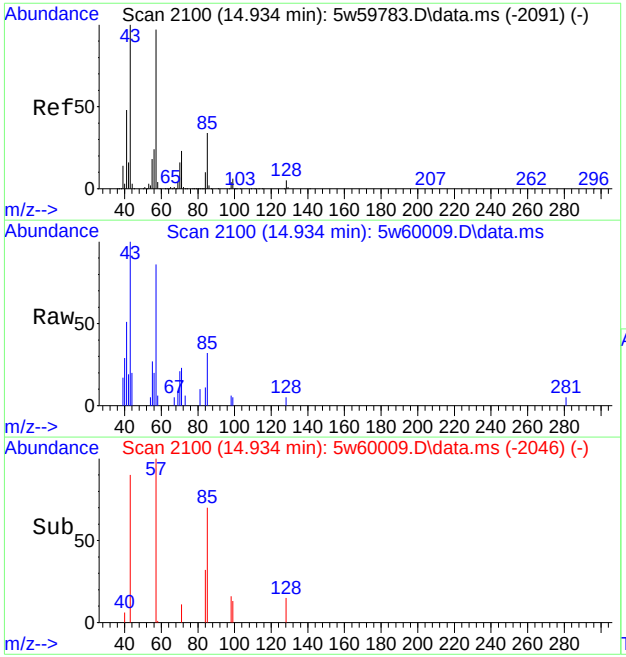


#81
o-XYLENE
Concen: 0.22 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion:106 Resp: 15695

Ion	Ratio	Lower	Upper
106	100		
91	220.3	181.6	241.6
77	32.5	0.0	56.6

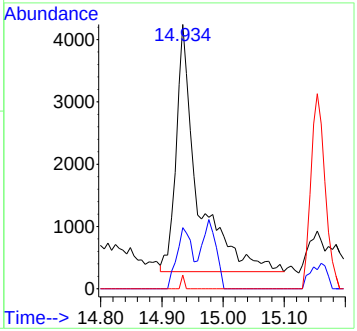


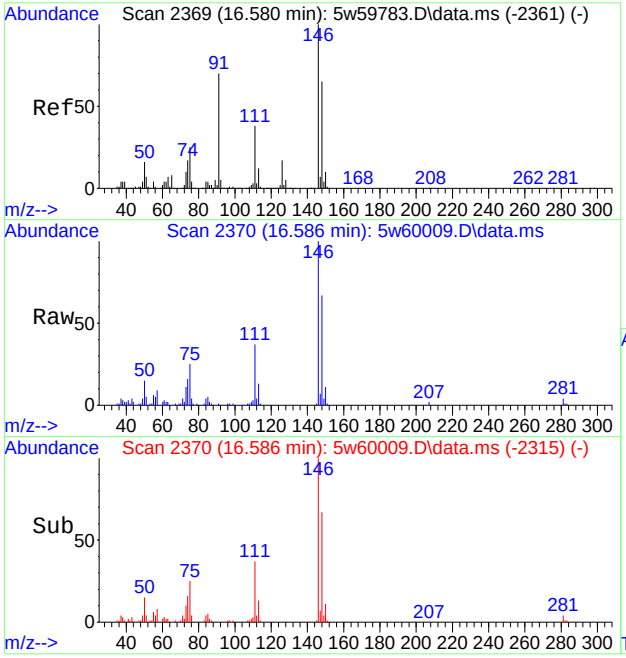


#83
NONANE
Concen: 0.10 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion: 43 Resp: 9690

Ion	Ratio	Lower	Upper
43	100		
71	18.6	0.0	52.7
128	0.0	0.0	34.7

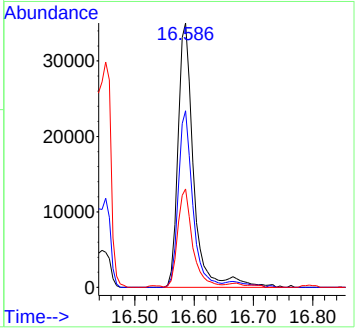


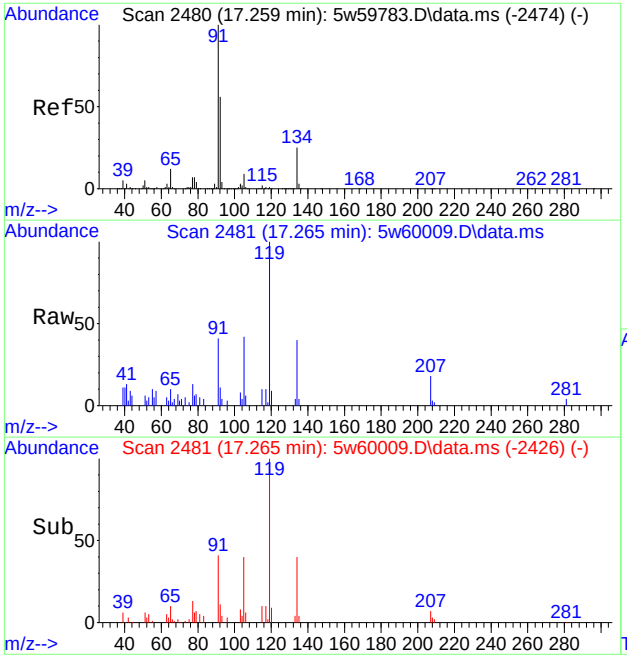


#97
m-DICHLOROBENZENE
Concen: 0.50 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion:146 Resp: 64860

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.8	94.8
111	35.7	8.2	68.2

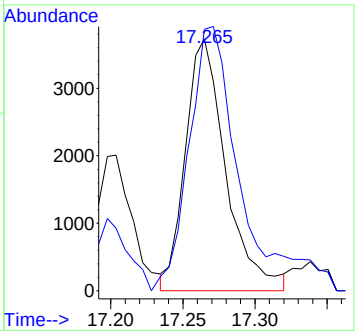




#104
n-BUTYLBENZENE
Concen: 0.14 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w60009.D
Acq: 24 Nov 2025 5:15 pm

Tgt Ion:134 Resp: 7280

Ion	Ratio	Lower	Upper
134	100		
91	133.3	363.1	423.1#



Manual Integration Approval Summary

Sample Number: JE23790-1
Lab FileID: 5W60009.D
Injection Time: 11/24/25 17:15

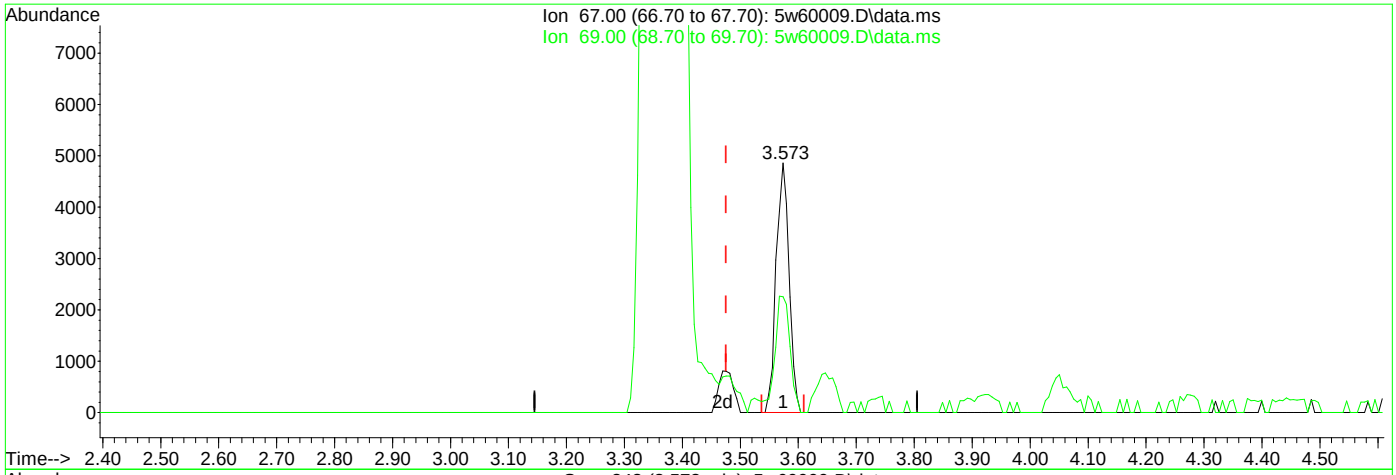
Method: TO-15
Analyst approved: 11/25/25 13:00 Claire Basilio
Supervisor approved: 11/26/25 16:59 Kanya Veerawat

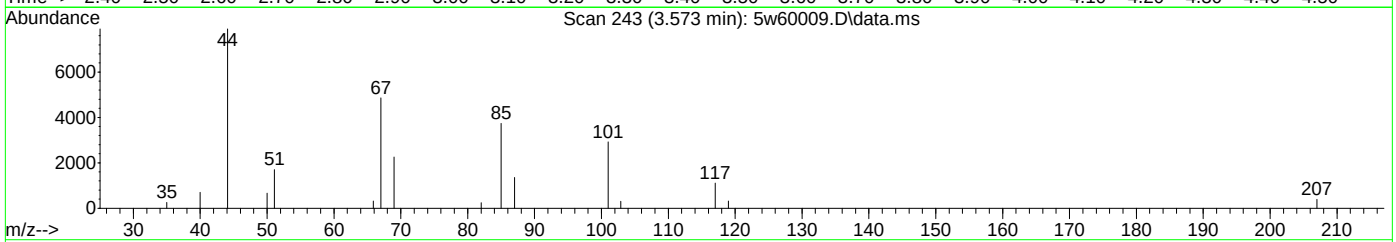
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorodifluoromethane	75-45-6		3.47	Missed peak

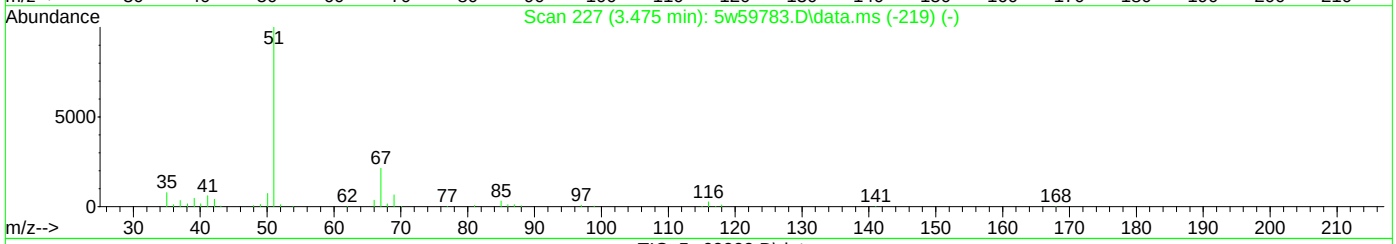
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60009.D
Acq On : 24 Nov 2025 5:15 pm
Operator : benk
Sample : je23790-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:02:34 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60009.D\data.ms

(4) CHLORODIFLUOROMETHANE

3.573min (+0.098) 0.52PPBV

response 7525

Ion	Exp%	Act%
67.00	100	100
69.00	31.00	46.41
0.00	0.00	0.00
0.00	0.00	0.00

5W60009.D edits: CHLORODIFLUOROMETHANE

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18785.D
Acq On : 25 Nov 2025 1:26 am
Operator : williamc
Sample : je23790-2 Inst : MS7W
Misc : MS99437,v7w655,500,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 26 03:47:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

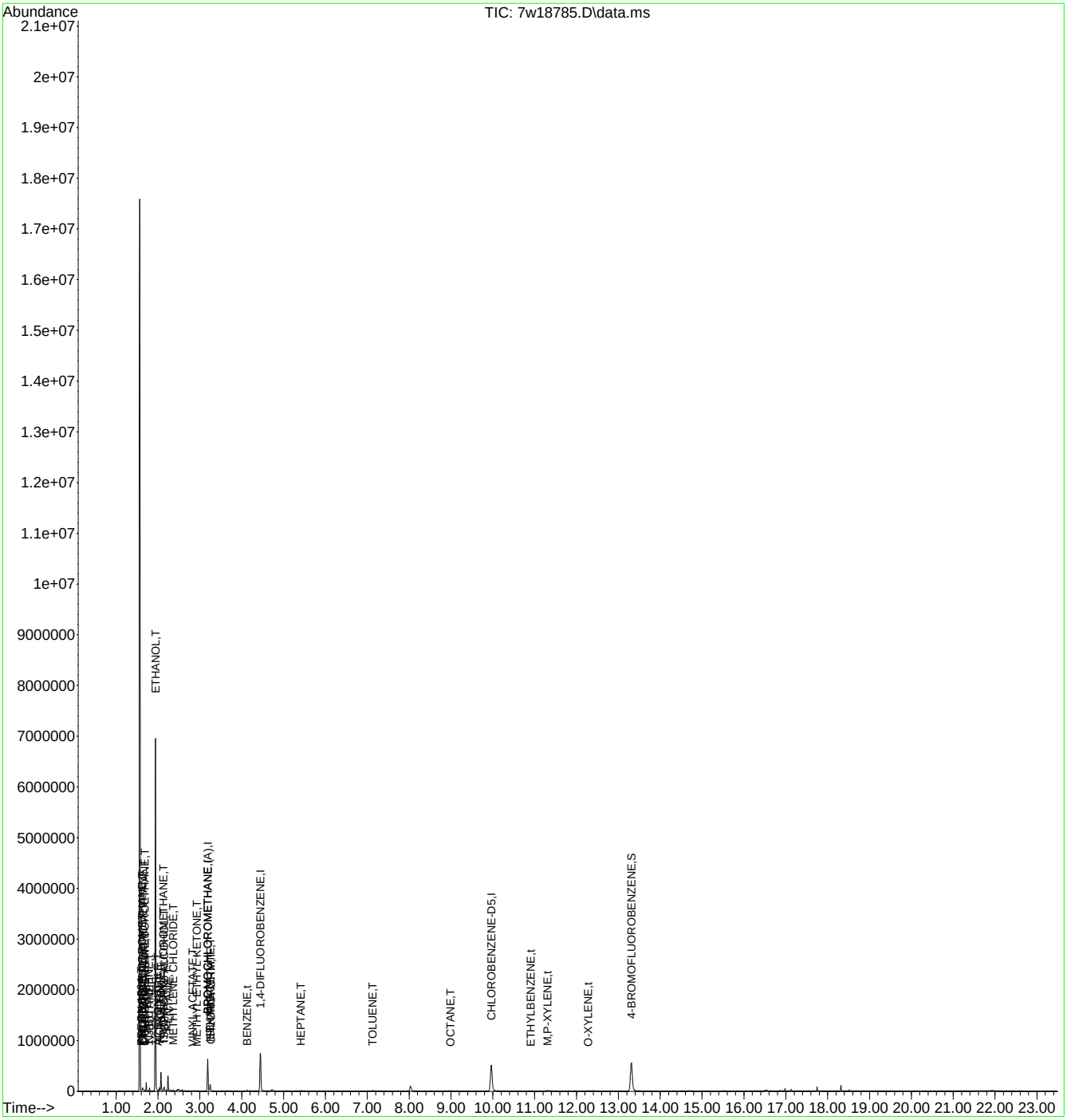
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.187	128	120503	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	590940	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.961	117	532129	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	120503	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	394874	9.22	PPBV	0.00
Target Compounds						Qvalue
3) FREON 152A	1.602	65	1906	0.2527	PPBV	99
4) CHLORODIFLUOROMETHANE	1.618	67	1740	0.5314	PPBV	99
6) DICHLORODIFLUOROMETHANE	1.643	85	15848	0.5491	PPBV	96
7) PROPYLENE	1.627	41	9853	1.0094	PPBV	84
8) 1-CHLORO-1,1-DIFLUOROE...	1.679	65	2724	0.1061	PPBV	91
10) CHLOROMETHANE	1.685	52	2127	0.5139	PPBV	93
12) 1,3-BUTADIENE	1.782	54	2183	0.1886	PPBV #	1
13) N-BUTANE	1.798	43	26009	1.3279	PPBV	95
17) ACETONITRILE	1.997	41	1532	0.1119	PPBV #	84
18) ACROLEIN	2.036	56	22784	3.5041	PPBV	97
21) TRICHLOROFLUOROMETHANE	2.126	101	11614	0.3705	PPBV	99
22) ISOPROPYL ALCOHOL	2.145	45	58941	2.2191	PPBV	91
23) ACETONE	2.071	58	91869	12.6507	PPBV	77
24) PENTANE	2.238	42	60724	4.2214	PPBV	94
28) ETHANOL	1.939	45	4457916	630.4386	PPBV	98
31) METHYLENE CHLORIDE	2.364	84	5317	0.4540	PPBV	88
38) HEXANE	3.238	57	10900	0.4328	PPBV	81
39) VINYL ACETATE	2.820	86	492	0.1369	PPBV #	1
41) METHYL ETHYL KETONE	2.923	72	1154	0.1679	PPBV	96
44) ETHYL ACETATE	3.248	61	14998	3.1067	PPBV #	1
46) CHLOROFORM	3.261	83	3845	0.1462	PPBV	84
51) BENZENE	4.126	78	14266	0.3536	PPBV	89
62) HEPTANE	5.412	43	6473	0.2457	PPBV	87
66) TOLUENE	7.126	91	13788	0.2938	PPBV	99
75) OCTANE	8.987	43	5837	0.1654	PPBV	92
79) ETHYLBENZENE	10.907	91	6062	0.1018	PPBV	94
80) M,P-XYLENE	11.302	91	19847	0.4113	PPBV	81
81) O-XYLENE	12.273	91	8549	0.1825	PPBV #	86

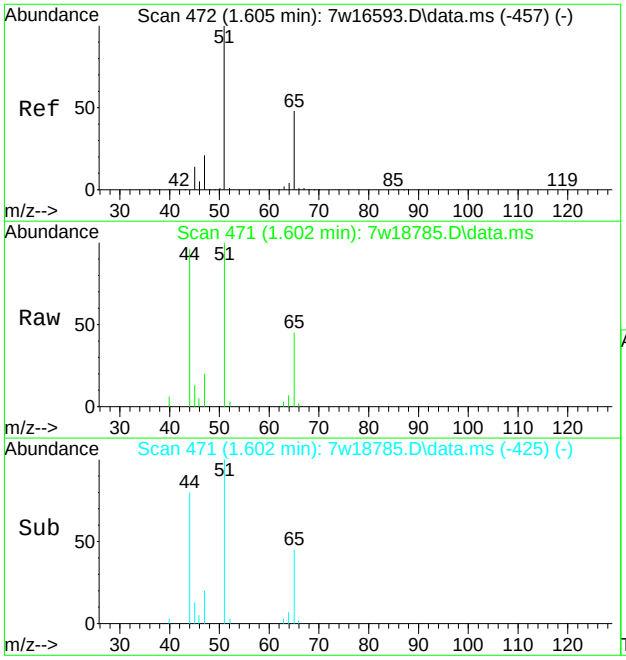
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18785.D
Acq On : 25 Nov 2025 1:26 am
Operator : williamc
Sample : je23790-2 Inst : MS7W
Misc : MS99437,v7w655,500,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 26 03:47:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

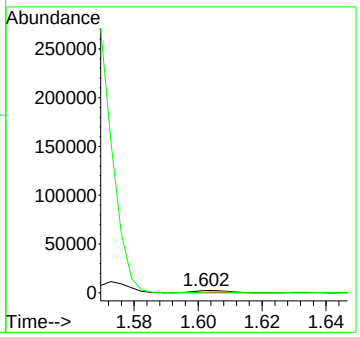


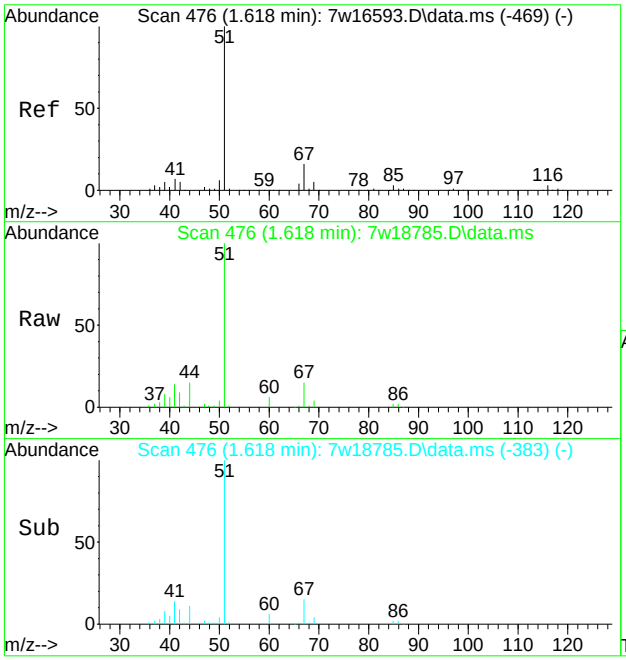


#3
FREON 152A
Concen: 0.2527 PPBV
RT: 1.602 min Scan# 471
Delta R.T. -0.003 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 65 Resp: 1906

Ion	Ratio	Lower	Upper
65	100		
45	32.3	23.0	42.8

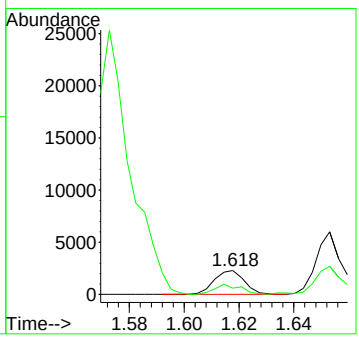


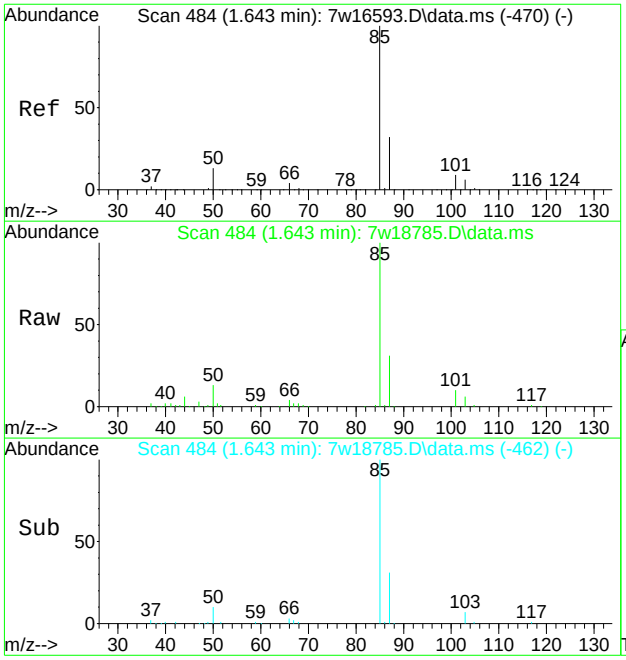


#4
CHLORODIFLUOROMETHANE
Concen: 0.5314 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 67 Resp: 1740

Ion	Ratio	Lower	Upper
67	100		
69	36.7	25.3	47.1

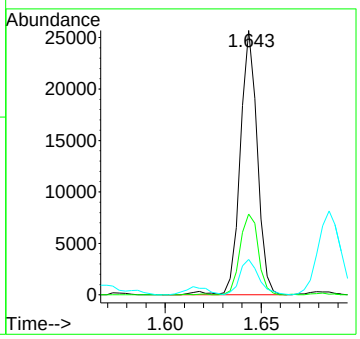


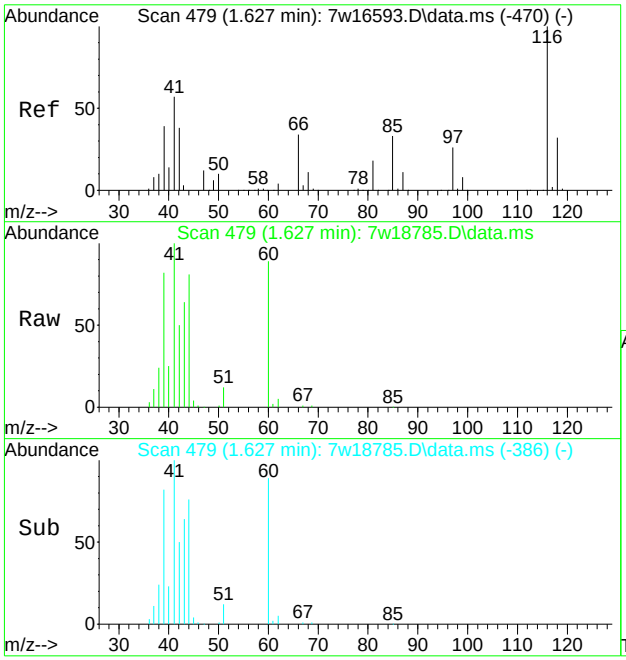


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5491 PPBV
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 85 Resp: 15848

Ion	Ratio	Lower	Upper
85	100		
87	33.0	23.0	42.6
50	15.0	13.5	25.1

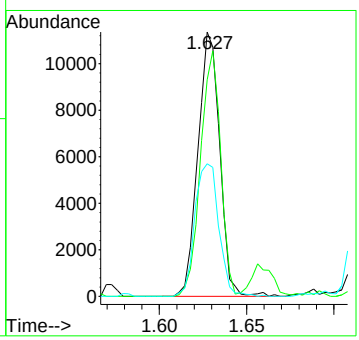


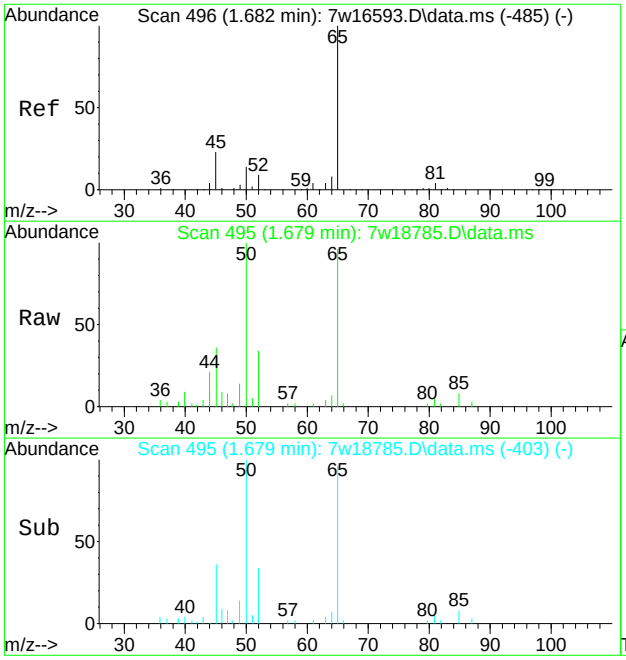


#7
PROPYLENE
Concen: 1.0094 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 41 Resp: 9853

Ion	Ratio	Lower	Upper
41	100		
39	86.3	50.5	93.7
42	55.2	47.0	87.4

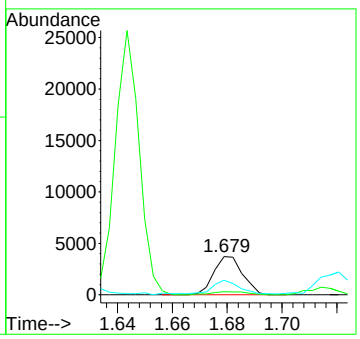


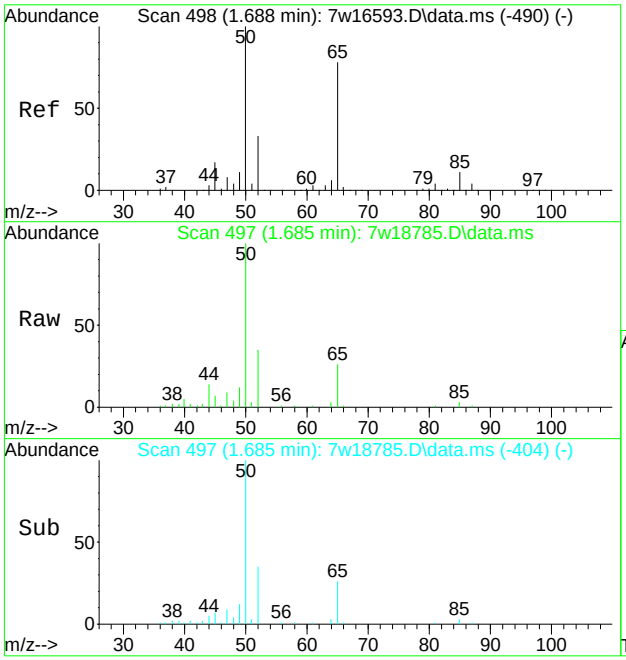


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.1061 PPBV
RT: 1.679 min Scan# 495
Delta R.T. -0.003 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 65 Resp: 2724

Ion	Ratio	Lower	Upper
65	100		
85	10.4	9.4	17.4
45	29.0	16.9	31.3

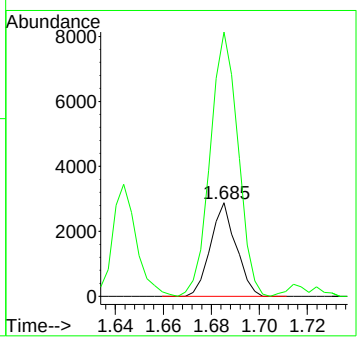


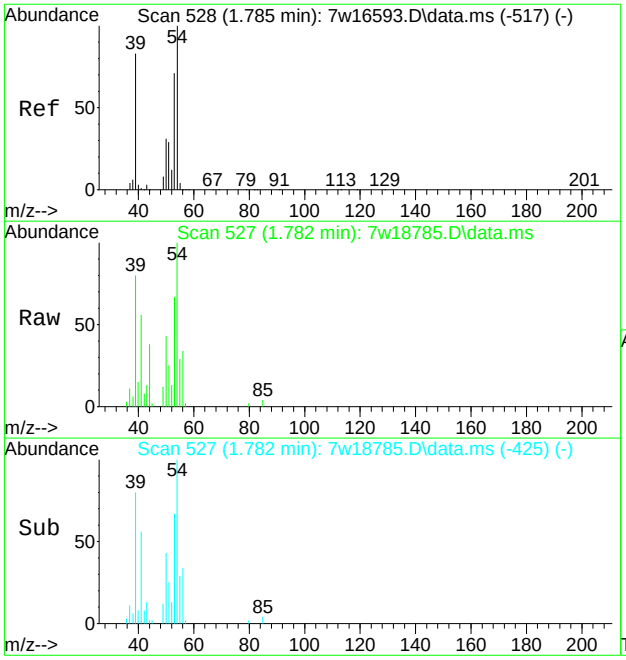


#10
CHLOROMETHANE
Concen: 0.5139 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 52 Resp: 2127

Ion	Ratio	Lower	Upper
52	100		
50	308.1	225.6	419.0

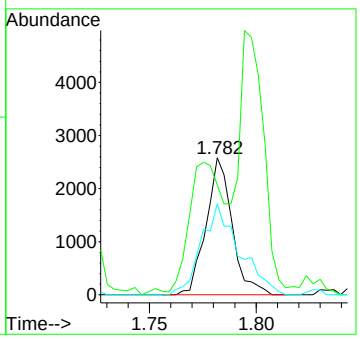


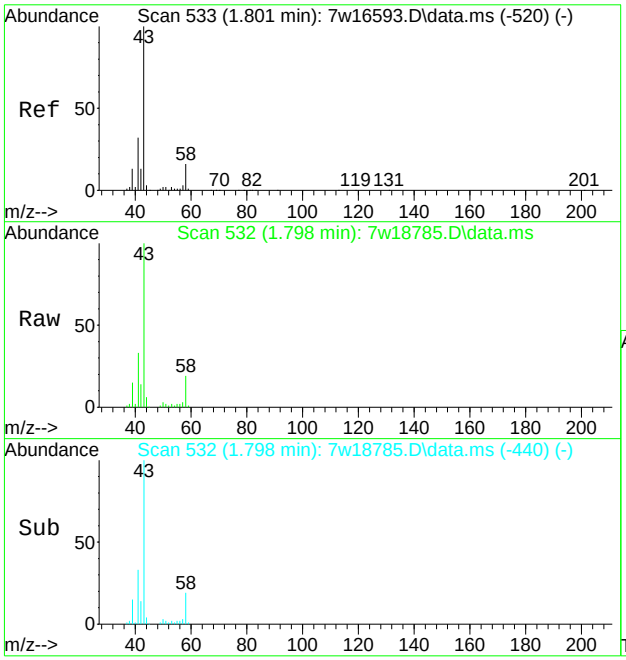


#12
1,3-BUTADIENE
Concen: 0.1886 PPBV
RT: 1.782 min Scan# 527
Delta R.T. -0.003 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 54 Resp: 2183

Ion	Ratio	Lower	Upper
54	100		
39	327.9	78.4	138.4#
53	97.0	40.9	100.9

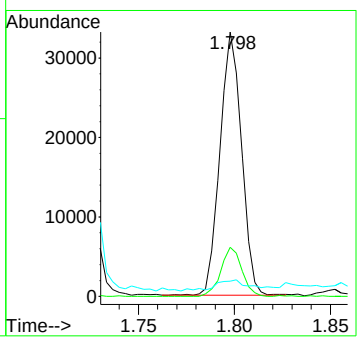


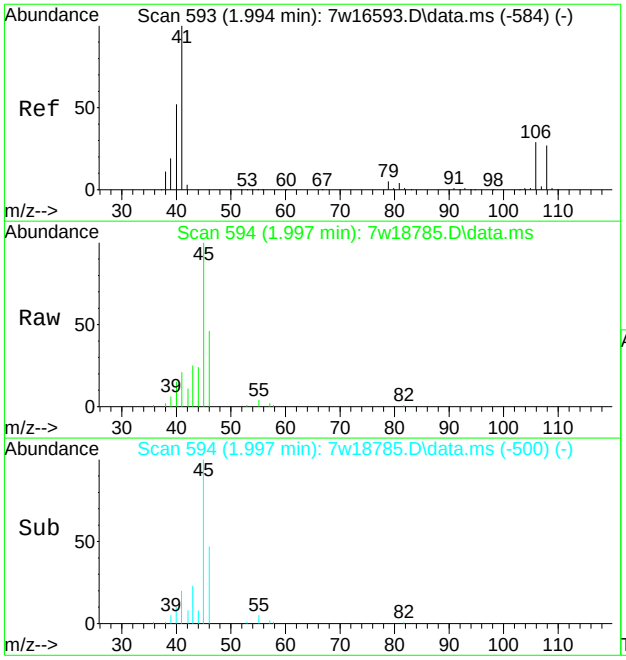


#13
N-BUTANE
Concen: 1.3279 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 43 Resp: 26009

Ion	Ratio	Lower	Upper
43	100		
58	18.2	11.0	20.4
44	4.3	2.6	4.8

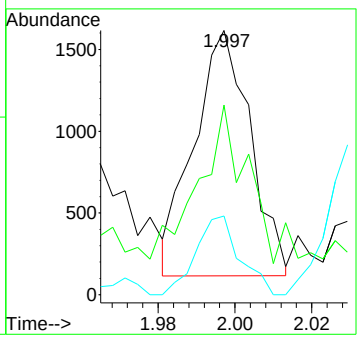


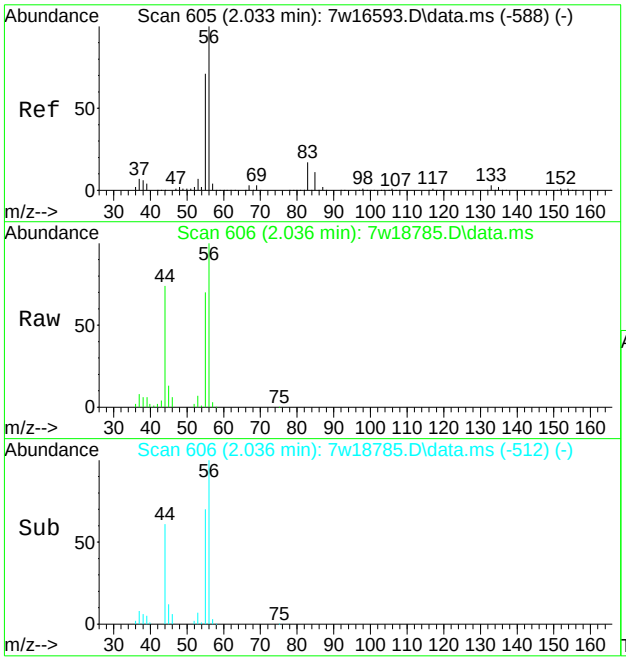


#17
ACETONITRILE
Concen: 0.1119 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 41 Resp: 1532

Ion	Ratio	Lower	Upper
41	100		
40	63.8	36.7	68.1
39	25.0	13.1	24.3#

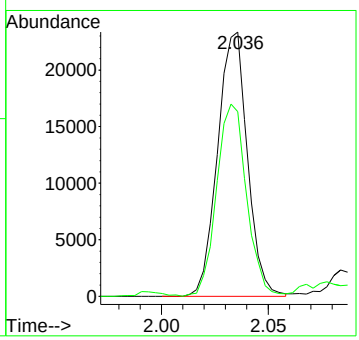


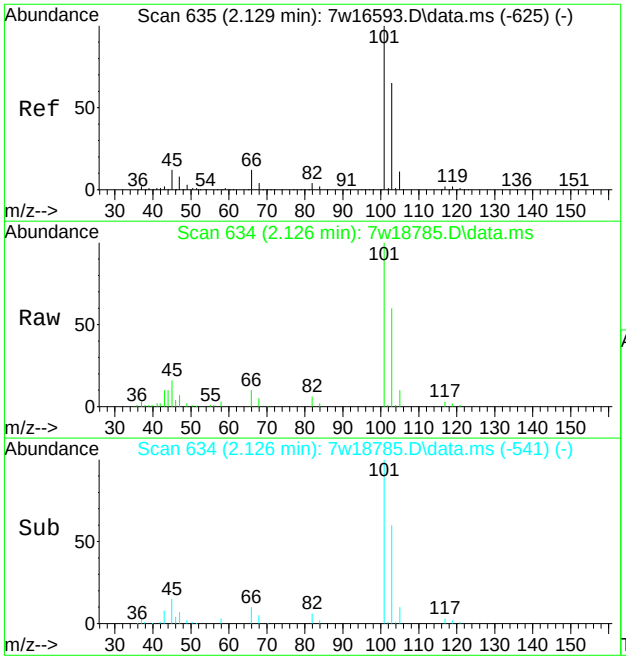


#18
ACROLEIN
Concen: 3.5041 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.004 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 56 Resp: 22784

Ion	Ratio	Lower	Upper
56	100		
55	72.2	48.9	90.7

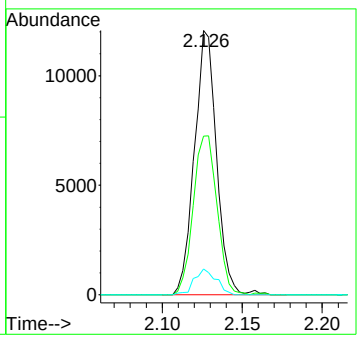


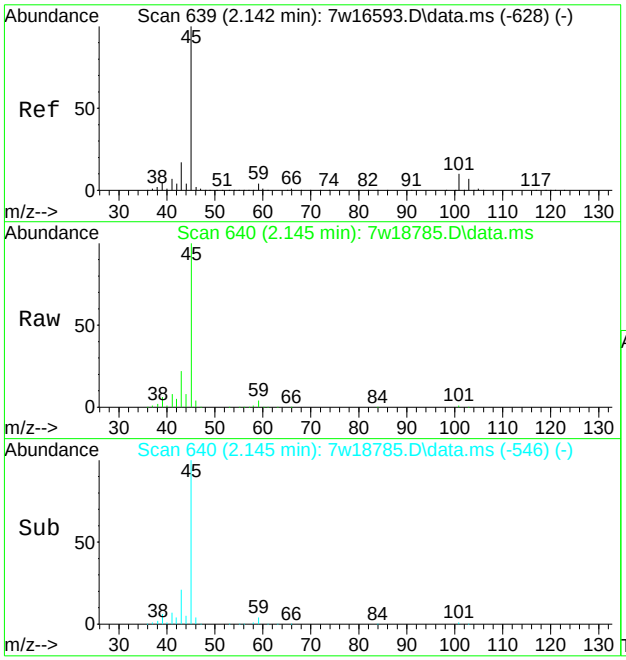


#21
TRICHLOROFLUOROMETHANE
Concen: 0.3705 PPBV
RT: 2.126 min Scan# 634
Delta R.T. -0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion:101 Resp: 11614

Ion	Ratio	Lower	Upper
101	100		
103	65.1	45.2	84.0
105	9.7	7.3	13.5

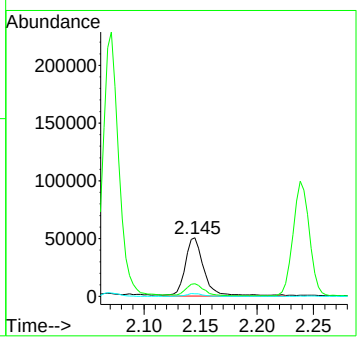


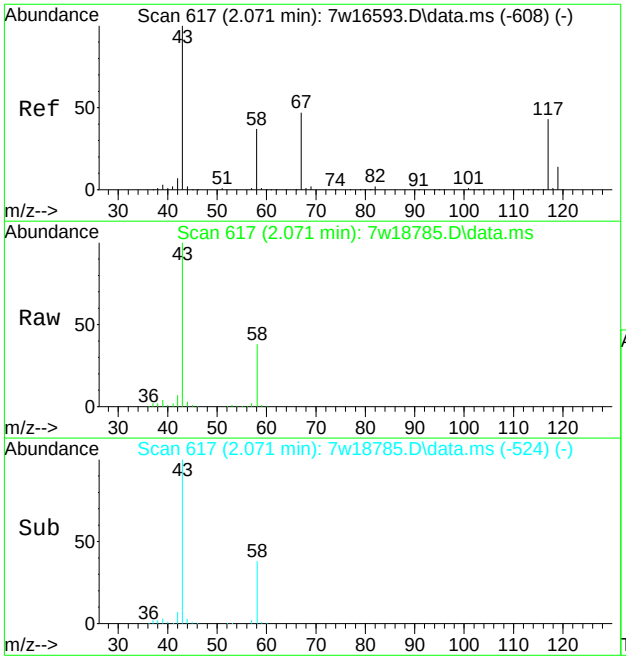


#22
ISOPROPYL ALCOHOL
Concen: 2.2191 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 45 Resp: 58941

Ion	Ratio	Lower	Upper
45	100		
43	22.8	12.5	23.3
59	4.6	3.1	5.7

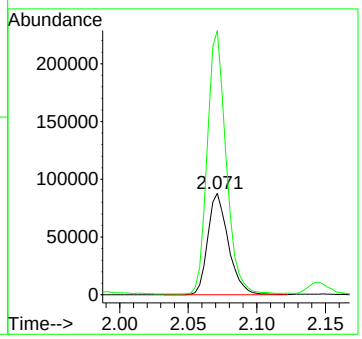


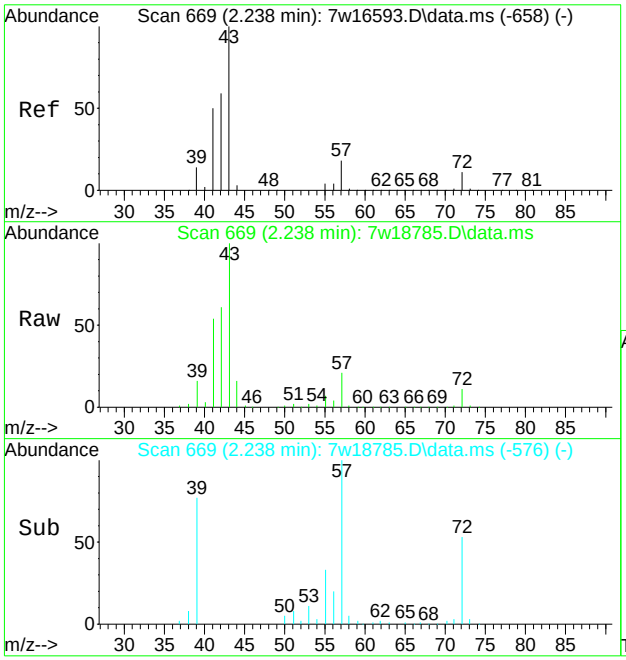


#23
ACETONE
Concen: 12.6507 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 58 Resp: 91869

Ion	Ratio	Lower	Upper
58	100		
43	239.7	198.6	368.8

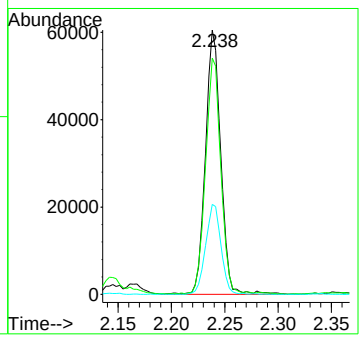


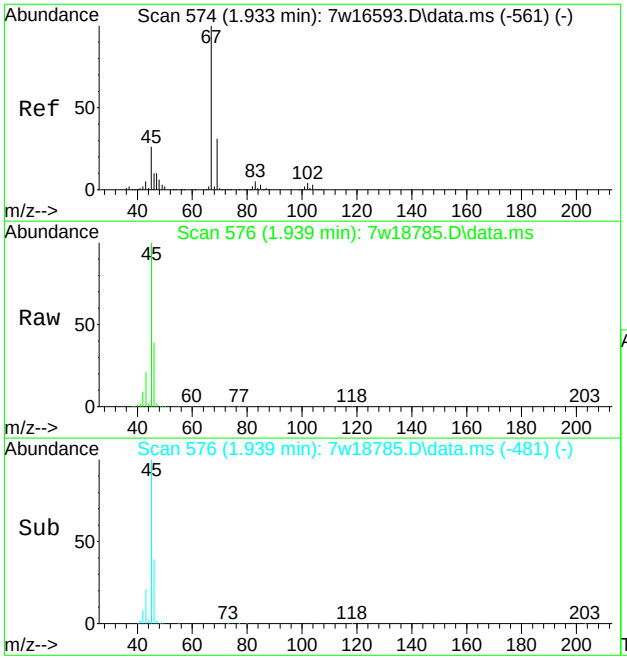


#24
PENTANE
Concen: 4.2214 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 42 Resp: 60724

Ion	Ratio	Lower	Upper
42	100		
41	89.9	59.8	111.0
57	34.2	21.1	39.1

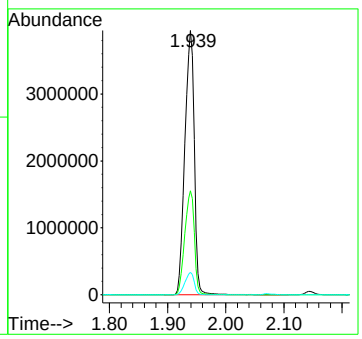


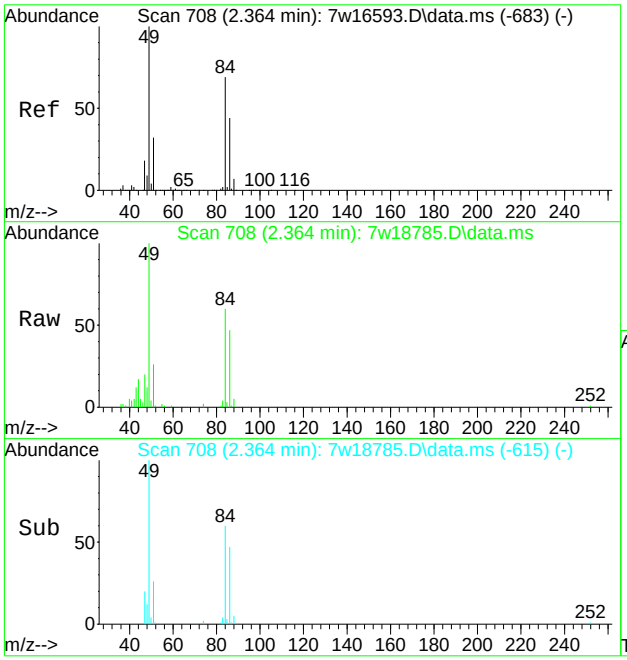


#28
ETHANOL
Concen: 630.4386 PPBV
RT: 1.939 min Scan# 576
Delta R.T. 0.006 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 45 Resp: 4457916

Ion	Ratio	Lower	Upper
45	100		
46	40.1	29.0	53.9
42	8.3	5.7	10.5

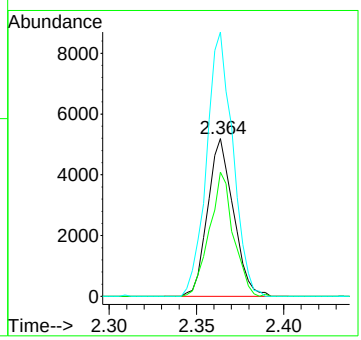


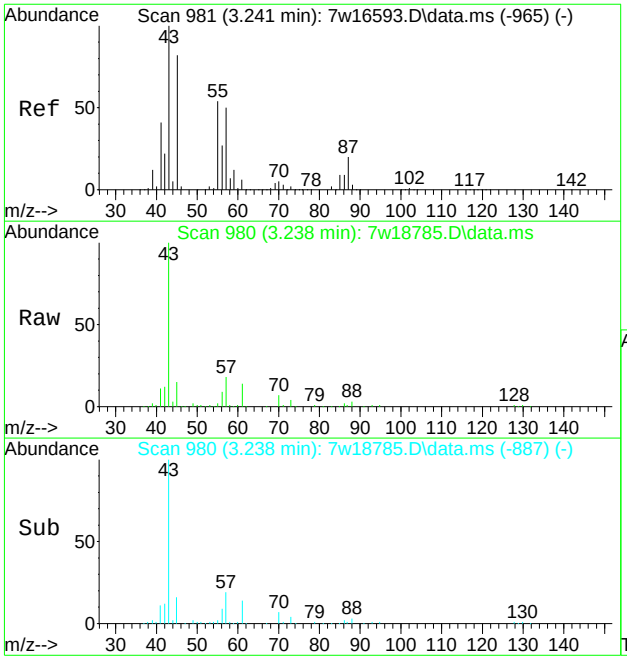


#31
METHYLENE CHLORIDE
Concen: 0.4540 PPBV
RT: 2.364 min Scan# 708
Delta R.T. -0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 84 Resp: 5317

Ion	Ratio	Lower	Upper
84	100		
86	73.7	44.3	82.3
49	170.9	109.5	203.3

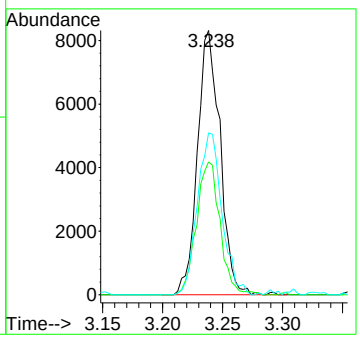


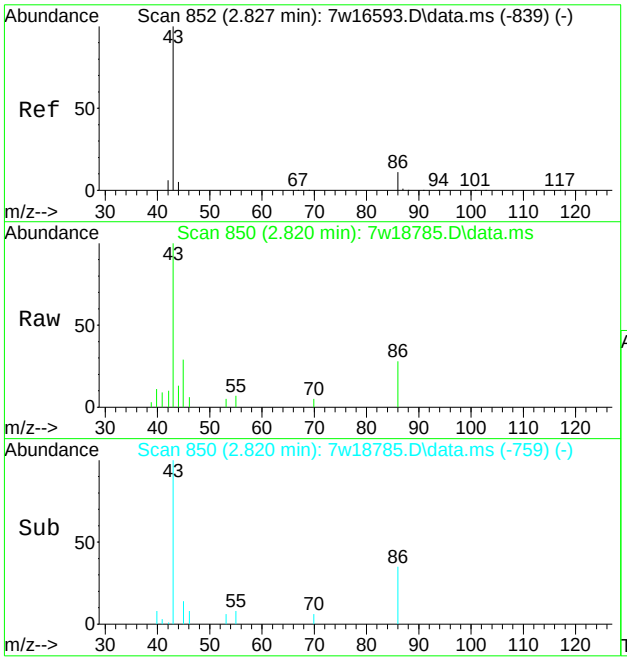


#38
HEXANE
Concen: 0.4328 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 57 Resp: 10900

Ion	Ratio	Lower	Upper
57	100		
56	52.3	38.0	70.6
41	66.4	65.9	122.5

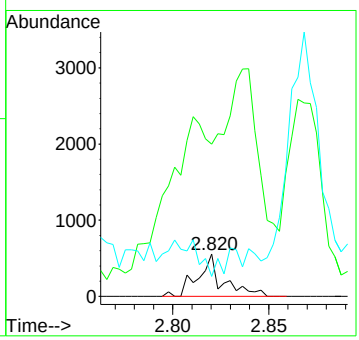


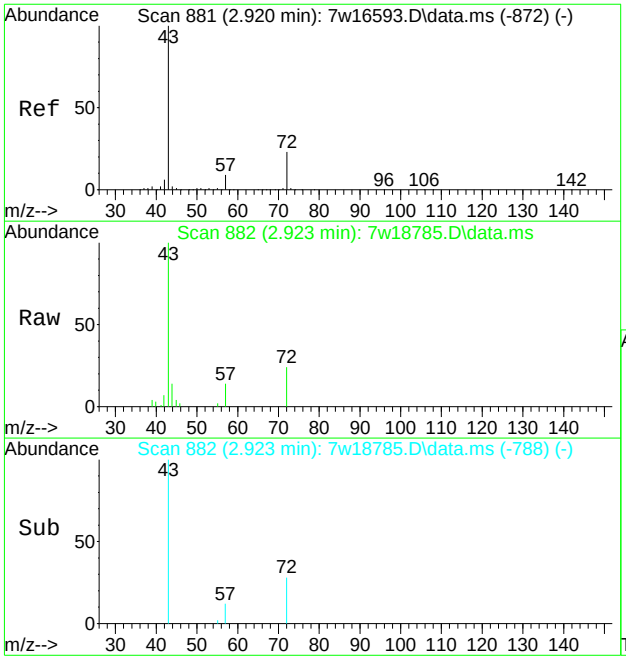


#39
VINYL ACETATE
Concen: 0.1369 PPBV
RT: 2.820 min Scan# 850
Delta R.T. -0.007 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 86 Resp: 492

Ion	Ratio	Lower	Upper
86	100		
43	0.0	758.7	1408.9#
44	136.8	39.5	73.3#

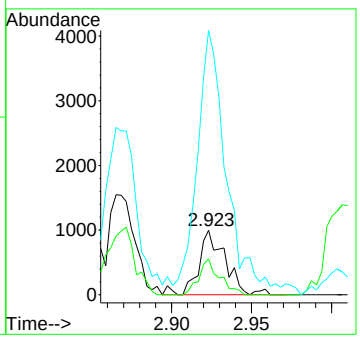


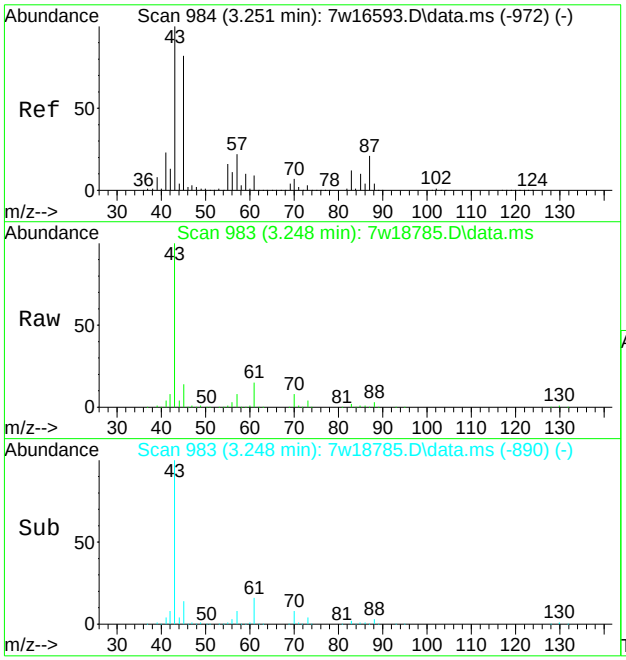


#41
METHYL ETHYL KETONE
Concen: 0.1679 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 72 Resp: 1154

Ion	Ratio	Lower	Upper
72	100		
57	43.2	26.9	49.9
43	433.9	309.4	574.6

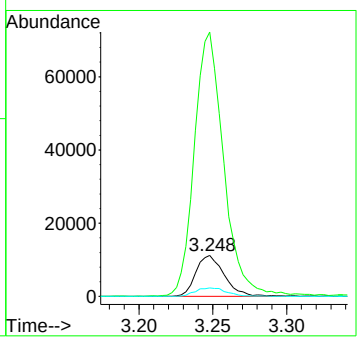


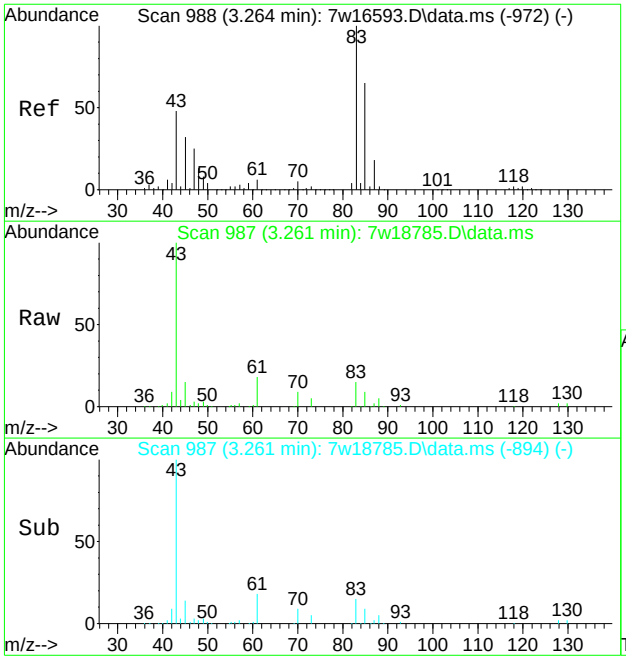


#44
ETHYL ACETATE
Concen: 3.1067 PPBV
RT: 3.248 min Scan# 983
Delta R.T. -0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 61 Resp: 14998

Ion	Ratio	Lower	Upper
61	100		
43	676.6	955.4	1774.4#
88	22.8	27.6	51.2#

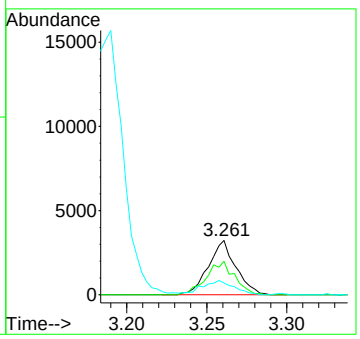


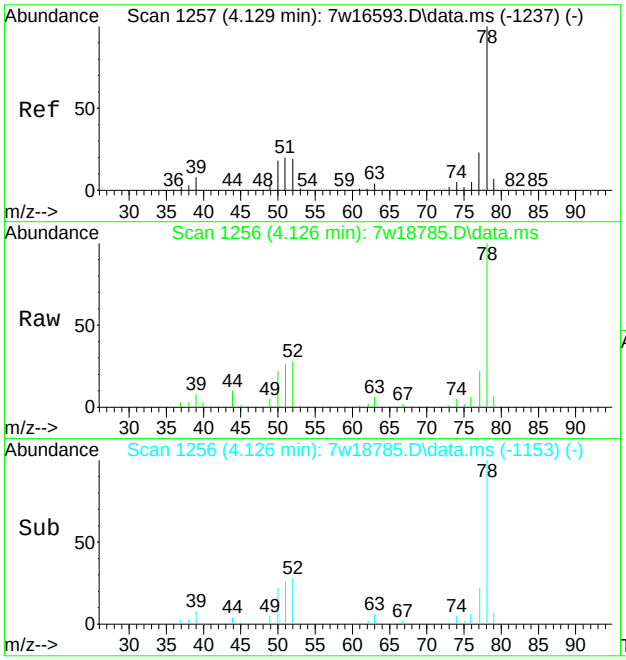


#46
CHLOROFORM
Concen: 0.1462 PPBV
RT: 3.261 min Scan# 987
Delta R.T. -0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 83 Resp: 3845

Ion	Ratio	Lower	Upper
83	100		
85	63.6	56.0	104.0
47	31.0	19.0	35.4

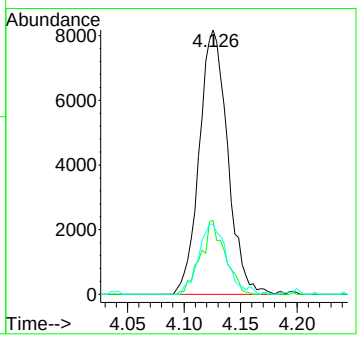


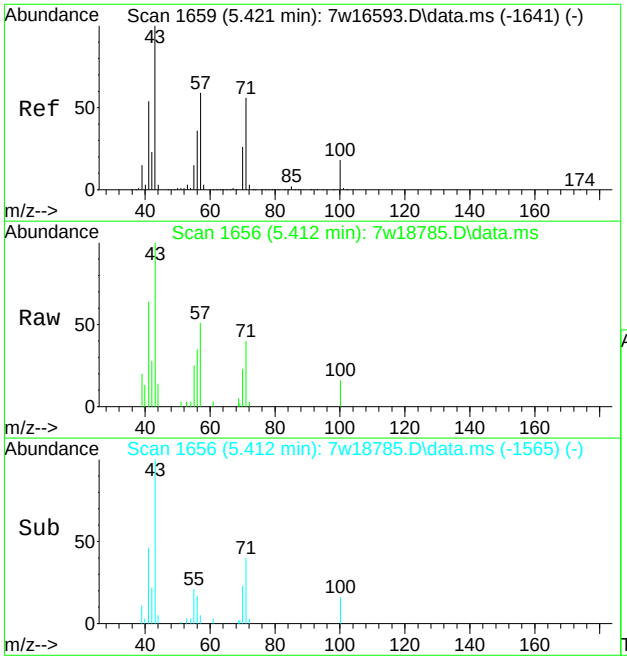


#51
BENZENE
Concen: 0.3536 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 78 Resp: 14266

Ion	Ratio	Lower	Upper
78	100		
52	24.2	0.0	49.9
51	26.4	0.0	50.6

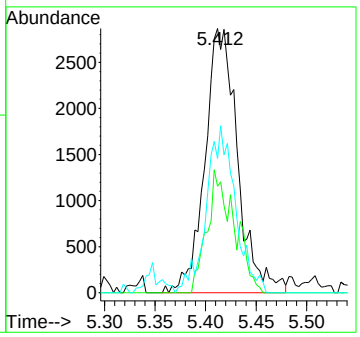


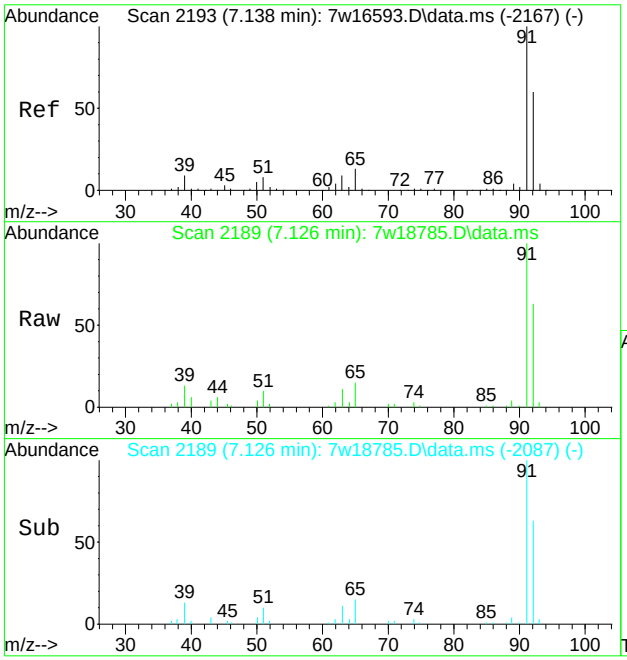


#62
HEPTANE
Concen: 0.2457 PPBV
RT: 5.412 min Scan# 1656
Delta R.T. -0.006 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 43 Resp: 6473

Ion	Ratio	Lower	Upper
43	100		
71	38.9	38.9	72.2
57	55.7	40.5	75.3

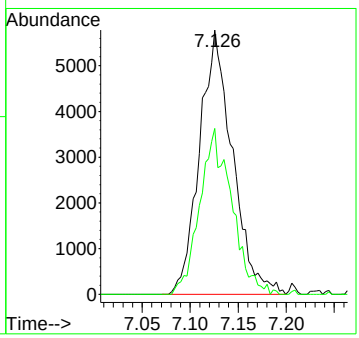


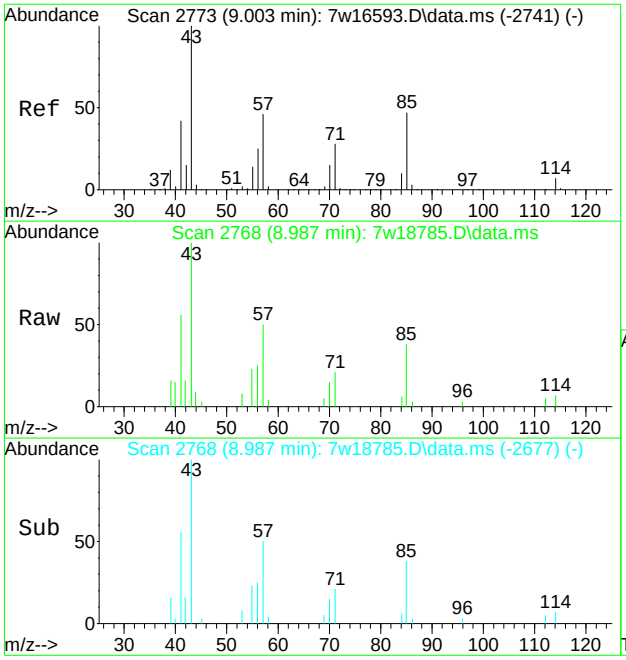


#66
TOLUENE
Concen: 0.2938 PPBV
RT: 7.126 min Scan# 2189
Delta R.T. -0.003 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 91 Resp: 13788

Ion	Ratio	Lower	Upper
91	100		
92	61.1	30.3	90.3

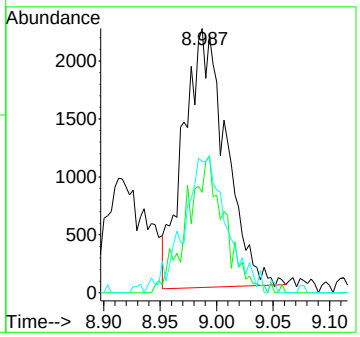


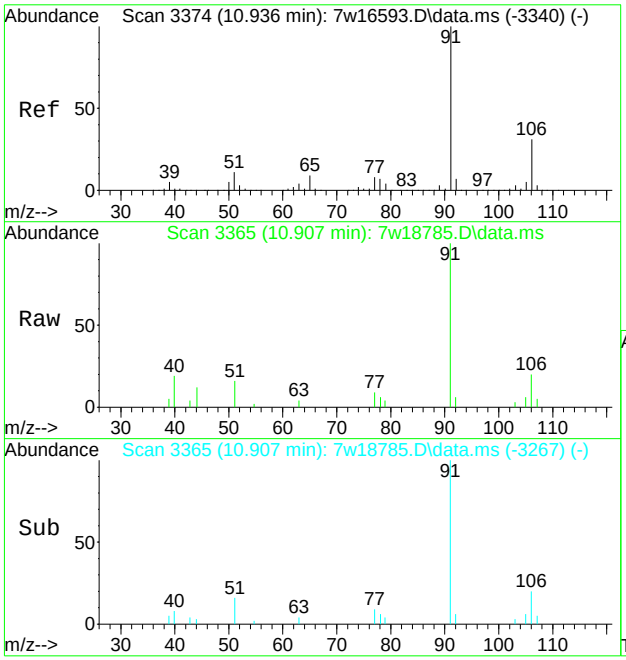


#75
OCTANE
Concen: 0.1654 PPBV
RT: 8.987 min Scan# 2768
Delta R.T. -0.007 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 43 Resp: 5837

Ion	Ratio	Lower	Upper
43	100		
85	47.1	31.8	59.0
57	53.3	31.4	58.2

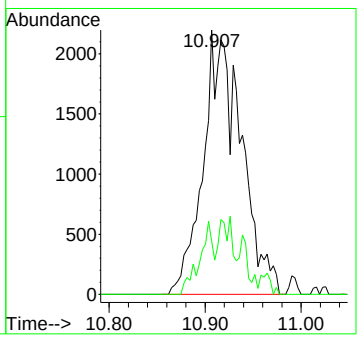


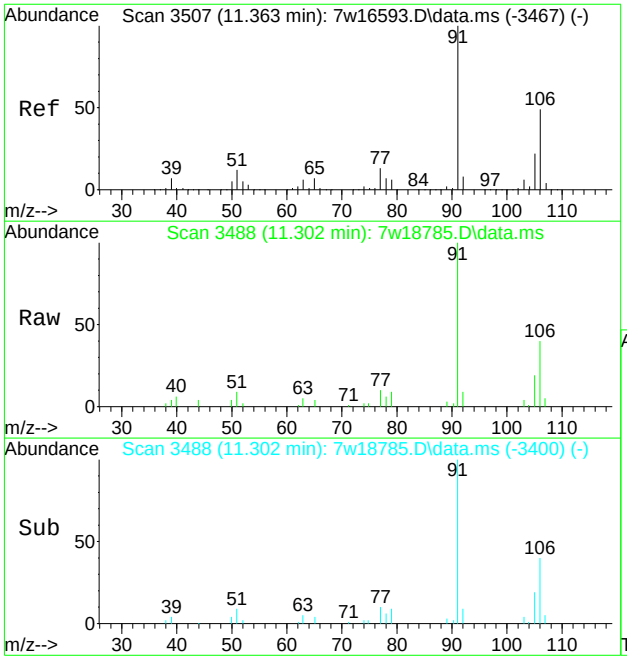


#79
ETHYLBENZENE
Concen: 0.1018 PPBV
RT: 10.907 min Scan# 3365
Delta R.T. -0.016 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 91 Resp: 6062

Ion	Ratio	Lower	Upper
91	100		
106	28.0	1.1	61.1

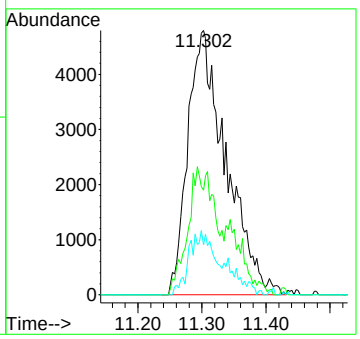


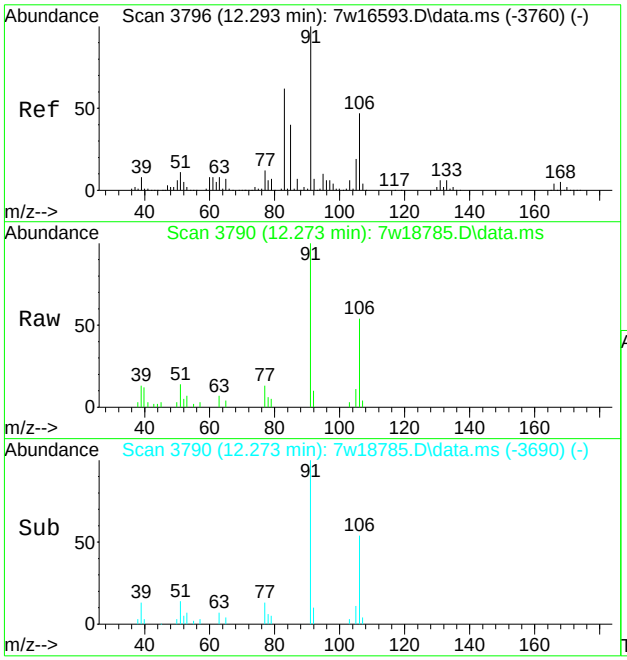


#80
M,P-XYLENE
Concen: 0.4113 PPBV
RT: 11.302 min Scan# 3488
Delta R.T. -0.048 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 91 Resp: 19847

Ion	Ratio	Lower	Upper
91	100		
106	34.7	0.0	56.1
105	20.9	0.0	42.1

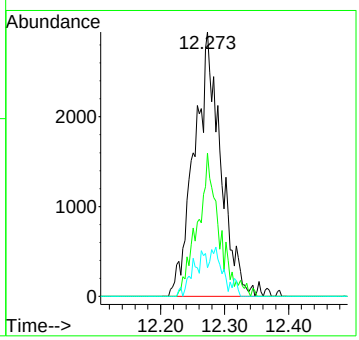




#81
O-XYLENE
Concen: 0.1825 PPBV
RT: 12.273 min Scan# 3790
Delta R.T. -0.010 min
Lab File: 7w18785.D
Acq: 25 Nov 2025 1:26 am

Tgt Ion: 91 Resp: 8549

Ion	Ratio	Lower	Upper
91	100		
106	54.1	31.8	59.0
105	10.9	13.0	24.2#



Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60010.D
Acq On : 24 Nov 2025 5:58 pm
Operator : benk
Sample : je23790-3
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 26 17:12:03 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

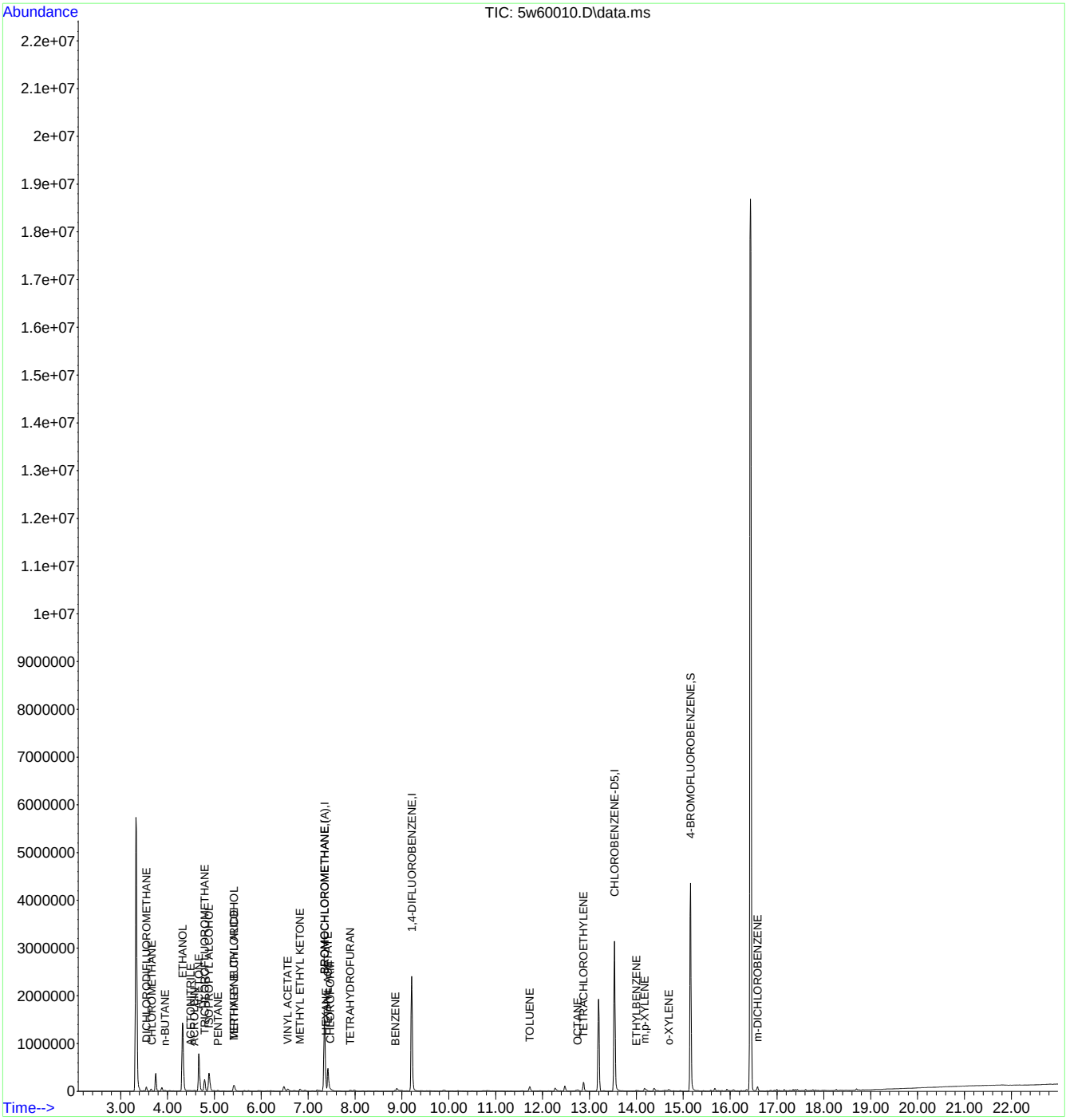
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	492269	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2182901	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1069119	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	492269	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1459522	10.93	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.30%				
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	3.549	85	79848	0.5668	PPBV		100
10) CHLOROMETHANE	3.665	52	1558	0.1007	PPBV	#	62
13) n-BUTANE	3.947	43	10100	0.2153	PPBV	#	94
17) ACETONITRILE	4.485	41	3994	0.1490	PPBV	#	93
18) ACROLEIN	4.571	56	9015	0.5919	PPBV		93
21) TRICHLOROFLUOROMETHANE	4.791	101	216972	1.8031	PPBV		100
22) ISOPROPYL ALCOHOL	4.883	45	601745	6.2337	PPBV		96
23) ACETONE	4.669	58	379578	19.6601	PPBV	#	81
24) PENTANE	5.072	42	8030	0.1601	PPBV		94
28) ETHANOL	4.320	45	1926628	119.1301	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	13955	0.2825	PPBV		95
35) TERTIARY BUTYL ALCOHOL	5.415	59	167540	1.6973	PPBV		93
37) TETRAHYDROFURAN	7.899	72	9855	0.5156	PPBV		91
38) HEXANE	7.385	57	25115	0.3196	PPBV		98
39) VINYL ACETATE	6.559	86	4373	0.5502	PPBV	#	66
41) METHYL ETHYL KETONE	6.822	72	20434	1.0747	PPBV	#	86
44) ETHYL ACETATE	7.422	61	104108	7.1653	PPBV		95
46) CHLOROFORM	7.477	83	10772	0.0984	PPBV		97
52) BENZENE	8.853	78	24017	0.1642	PPBV		97
66) TOLUENE	11.728	92	50805	0.4648	PPBV		97
73) TETRACHLOROETHYLENE	12.872	164	47806	0.6555	PPBV		97
76) OCTANE	12.744	43	38637	0.3805	PPBV	#	48
79) ETHYLBENZENE	14.004	91	23366	0.1140	PPBV		97
80) m,p-XYLENE	14.176	106	29413	0.3642	PPBV		95
81) o-XYLENE	14.689	106	12086	0.1598	PPBV		91
97) m-DICHLOROBENZENE	16.586	146	44302	0.3154	PPBV		100

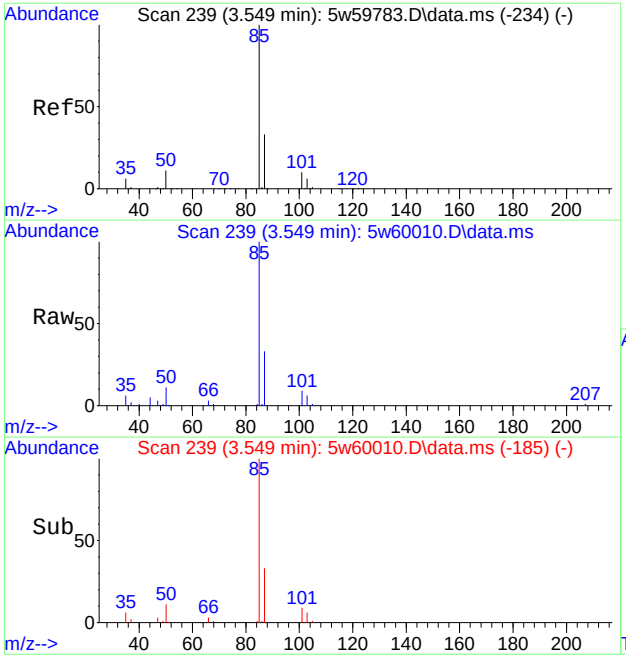
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60010.D
Acq On : 24 Nov 2025 5:58 pm
Operator : benk
Sample : je23790-3
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 26 17:12:03 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

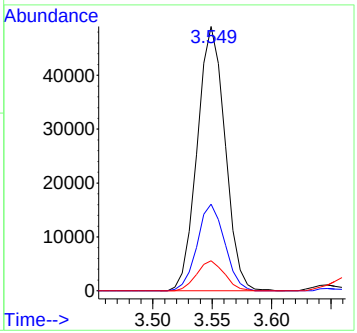


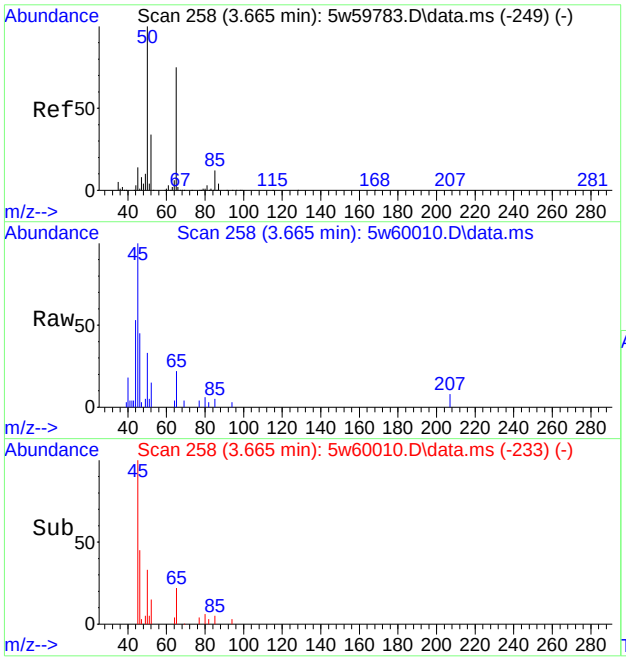


#6
DICHLORODIFLUOROMETHANE
Concen: 0.57 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 85 Resp: 79848

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	11.3	0.0	41.7

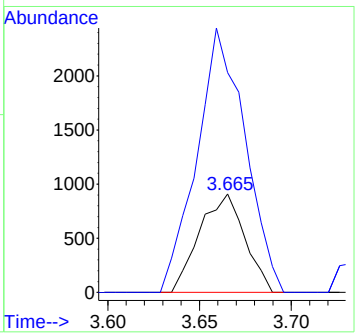


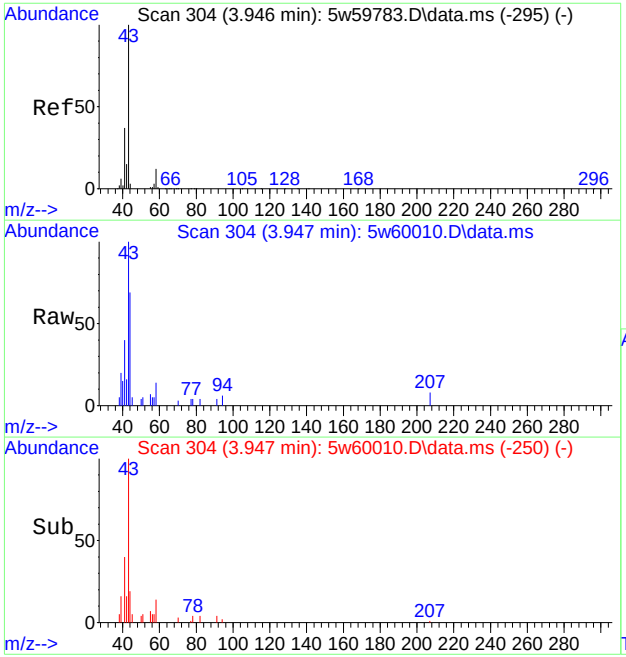


#10
CHLOROMETHANE
Concen: 0.10 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 52 Resp: 1558

Ion	Ratio	Lower	Upper
52	100		
50	223.0	267.9	327.9#

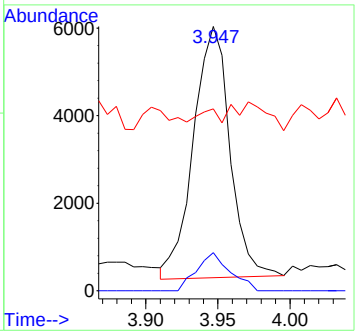


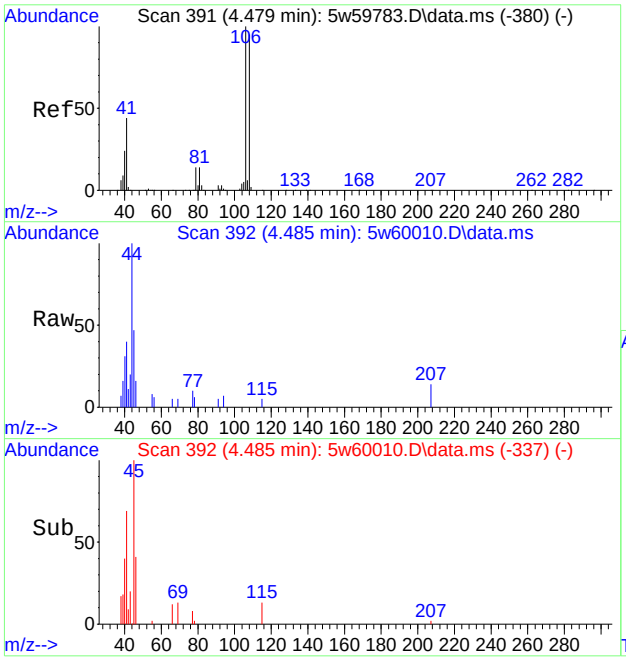


#13
n-BUTANE
Concen: 0.22 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 43 Resp: 10100

Ion	Ratio	Lower	Upper
43	100		
58	13.8	0.0	42.6
44	0.0	0.0	34.9

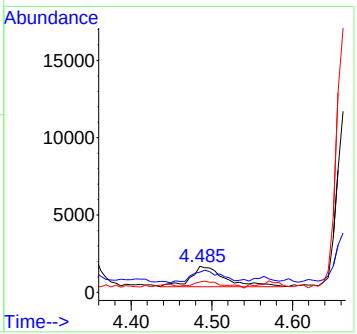


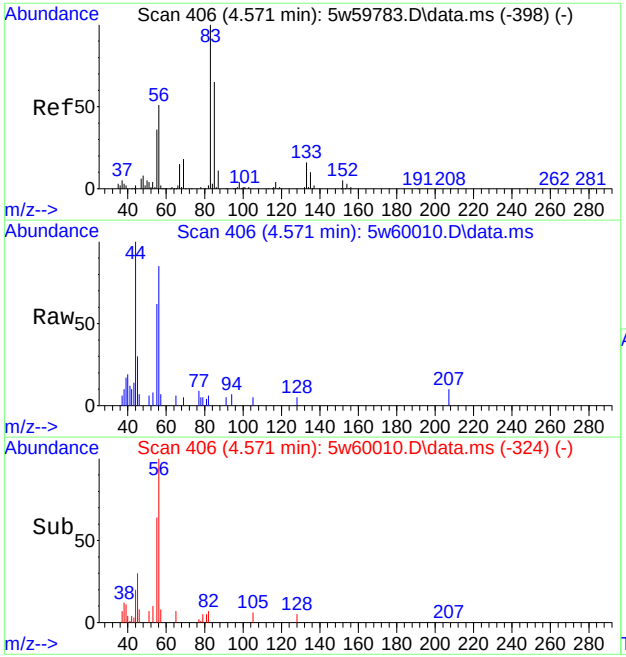


#17
ACETONITRILE
Concen: 0.15 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 41 Resp: 3994

Ion	Ratio	Lower	Upper
41	100		
40	55.5	37.9	70.5
39	28.8	13.4	24.8#

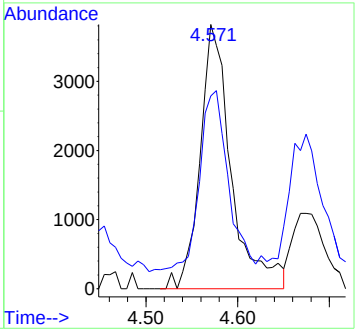


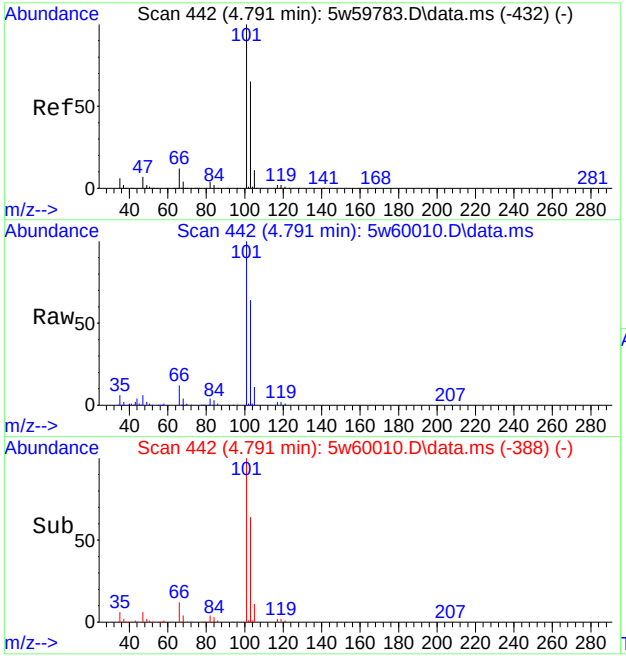


#18
ACROLEIN
Concen: 0.59 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 56 Resp: 9015

Ion	Ratio	Lower	Upper
56	100		
55	61.1	46.6	86.6

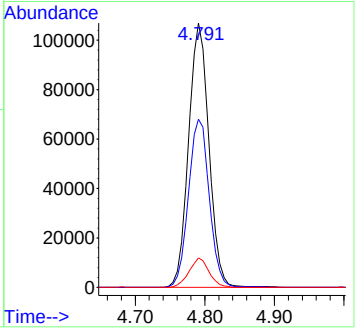


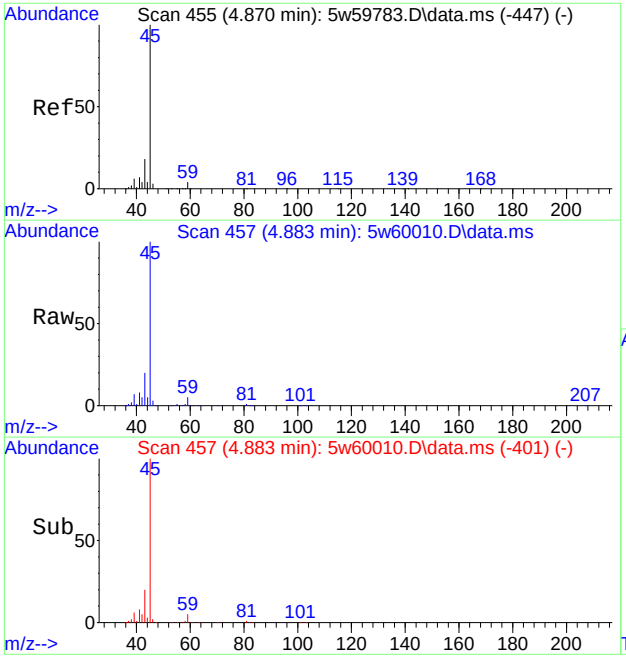


#21
TRICHLOROFLUOROMETHANE
Concen: 1.80 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion:101 Resp: 216972

Ion	Ratio	Lower	Upper
101	100		
103	65.2	35.0	95.0
105	10.9	0.0	40.7

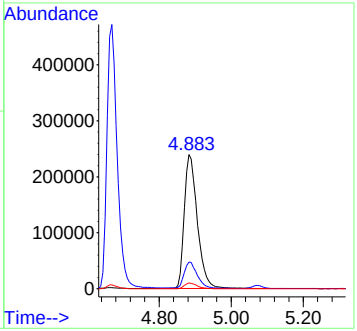


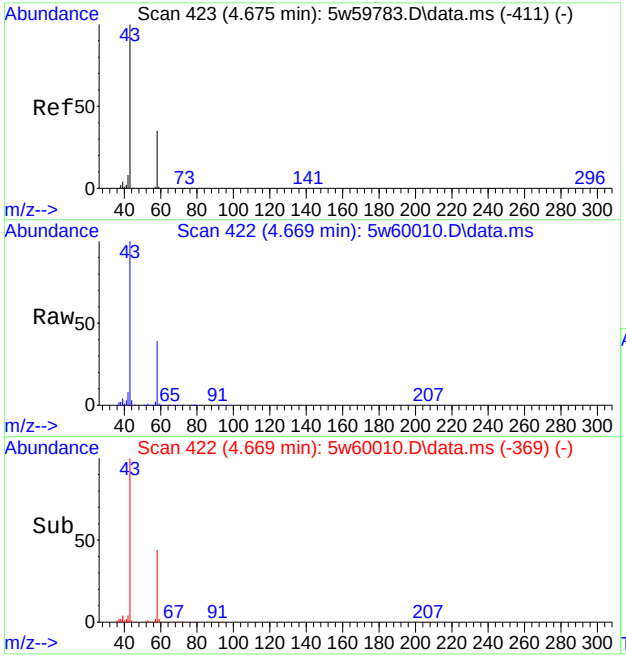


#22
ISOPROPYL ALCOHOL
Concen: 6.23 PPBV
RT: 4.883 min Scan# 457
Delta R.T. 0.013 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 45 Resp: 601745

Ion	Ratio	Lower	Upper
45	100		
43	19.8	0.0	47.8
59	4.5	0.0	34.1

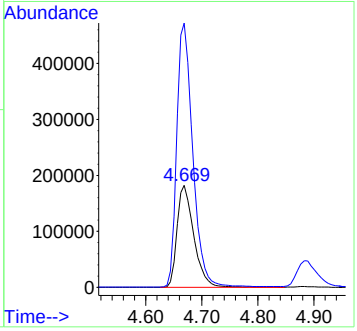


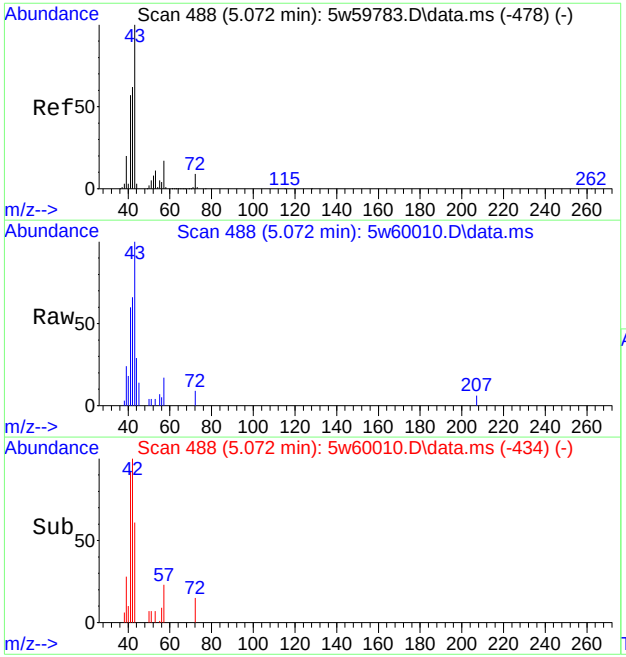


#23
ACETONE
Concen: 19.66 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 58 Resp: 379578

Ion	Ratio	Lower	Upper
58	100		
43	246.4	252.3	312.3#

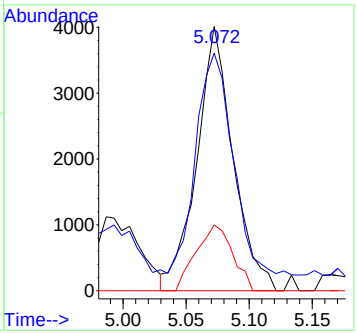


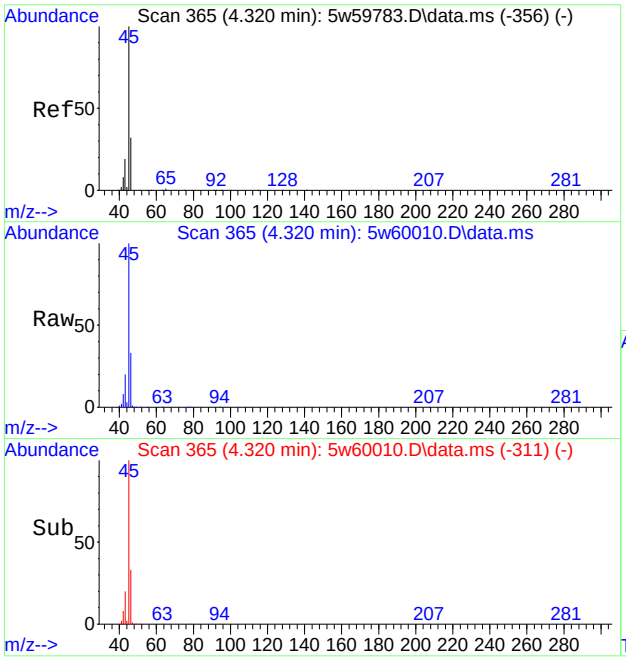


#24
PENTANE
Concen: 0.16 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 42 Resp: 8030

Ion	Ratio	Lower	Upper
42	100		
41	97.8	62.3	122.3
57	25.1	0.0	57.7

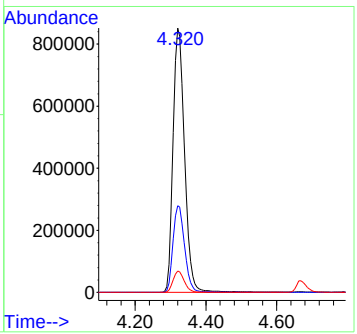


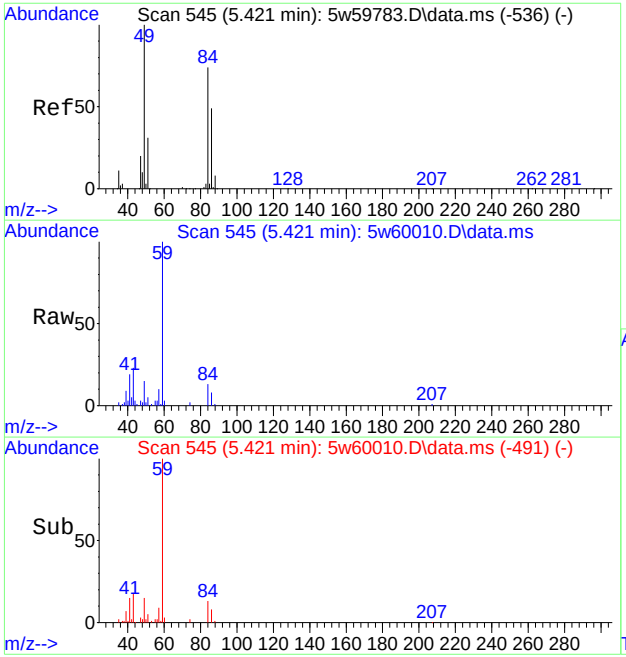


#28
ETHANOL
Concen: 119.13 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 45 Resp: 1926628

Ion	Ratio	Lower	Upper
45	100		
46	33.2	2.0	62.0
42	7.8	0.0	38.5

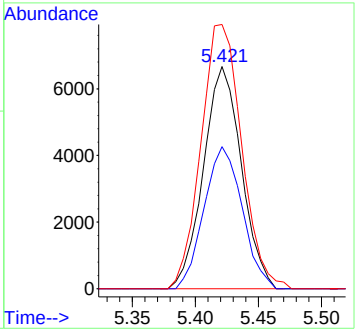


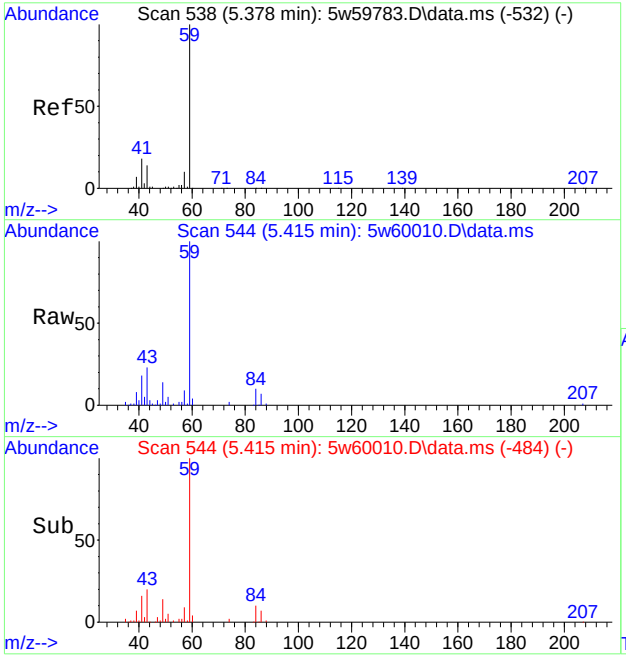


#31
METHYLENE CHLORIDE
Concen: 0.28 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 84 Resp: 13955

Ion	Ratio	Lower	Upper
84	100		
86	64.1	35.2	95.2
49	127.5	105.3	165.3

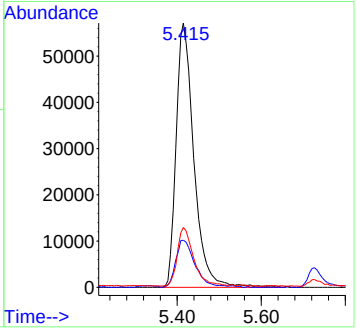


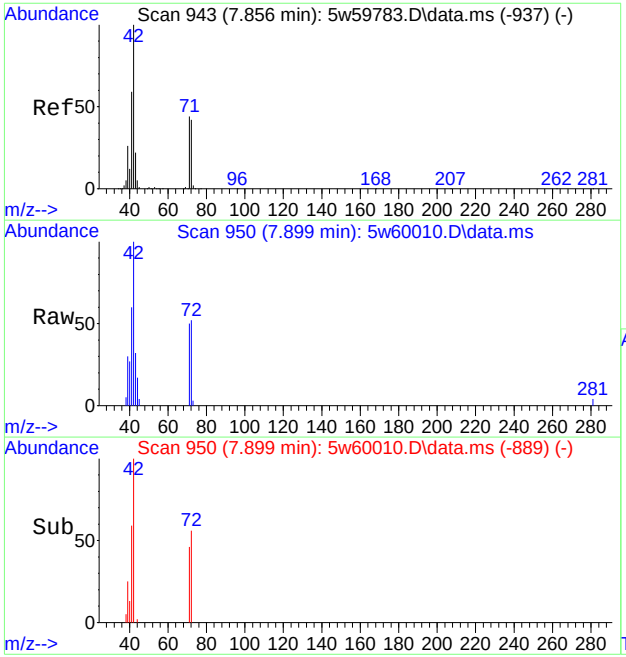


#35
TERTIARY BUTYL ALCOHOL
Concen: 1.70 PPBV
RT: 5.415 min Scan# 544
Delta R.T. 0.037 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 59 Resp: 167540

Ion	Ratio	Lower	Upper
59	100		
41	19.5	0.0	49.3
43	20.6	0.0	44.1

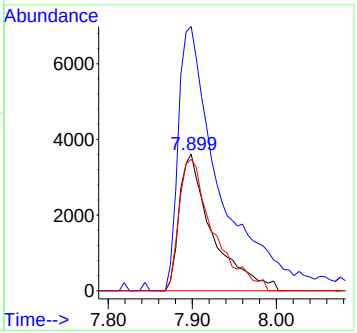


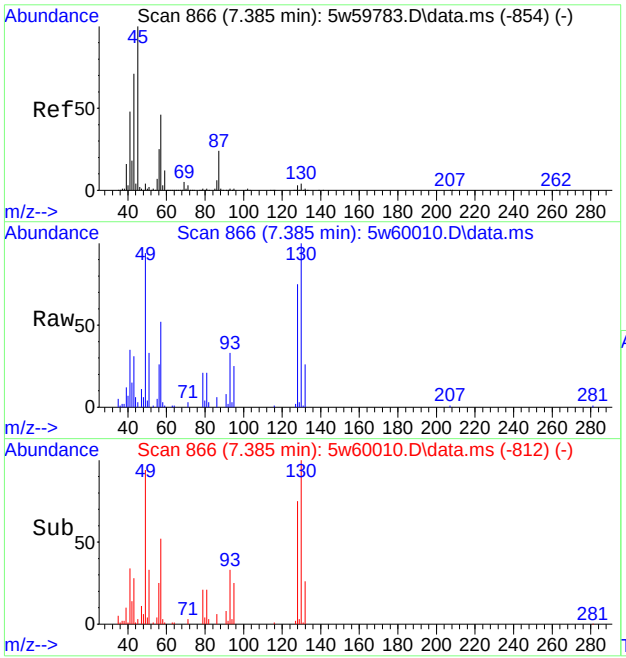


#37
TETRAHYDROFURAN
Concen: 0.52 PPBV
RT: 7.899 min Scan# 950
Delta R.T. 0.043 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 72 Resp: 9855

Ion	Ratio	Lower	Upper
72	100		
42	252.6	202.4	262.4
71	100.3	71.1	131.1

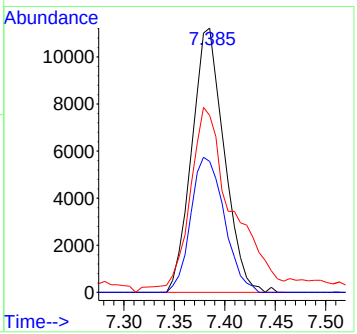


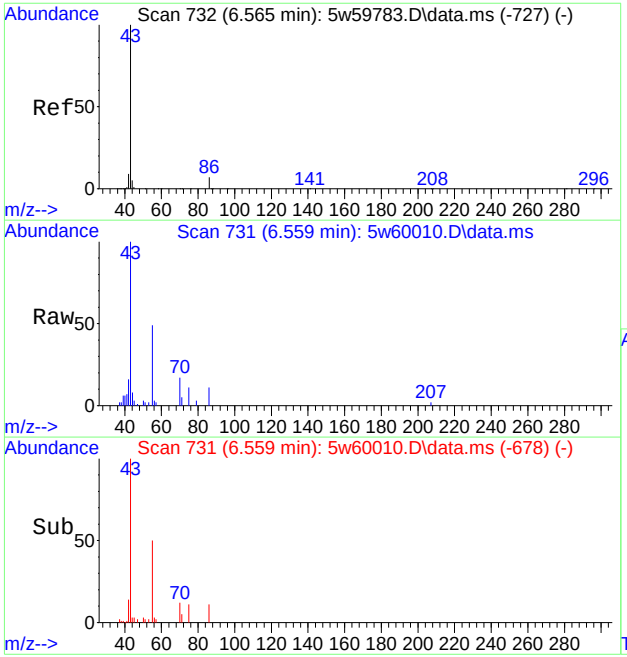


#38
HEXANE
Concen: 0.32 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 57 Resp: 25115

Ion	Ratio	Lower	Upper
57	100		
56	53.0	25.9	85.9
41	104.4	74.7	134.7

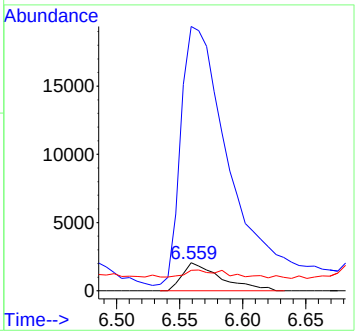


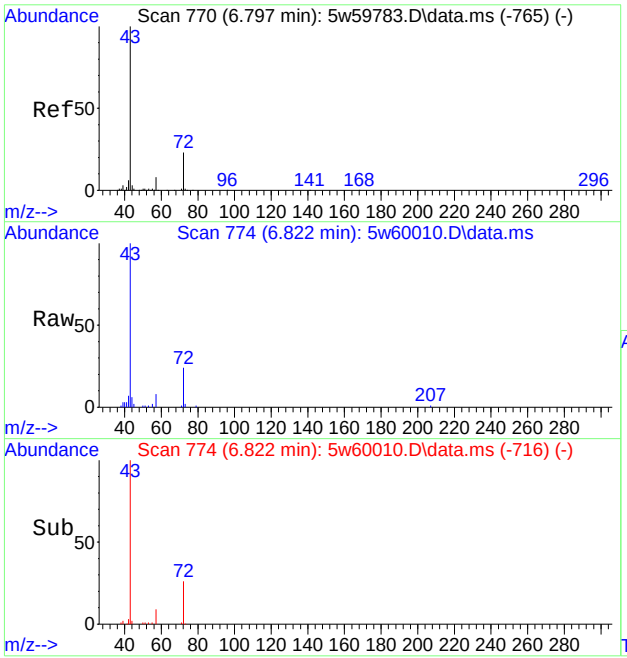


#39
VINYL ACETATE
Concen: 0.55 PPBV
RT: 6.559 min Scan# 731
Delta R.T. -0.006 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 86 Resp: 4373

Ion	Ratio	Lower	Upper
86	100		
43	1214.2	1379.7	1439.7#
44	37.7	36.9	96.9

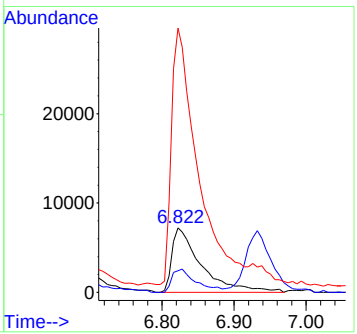


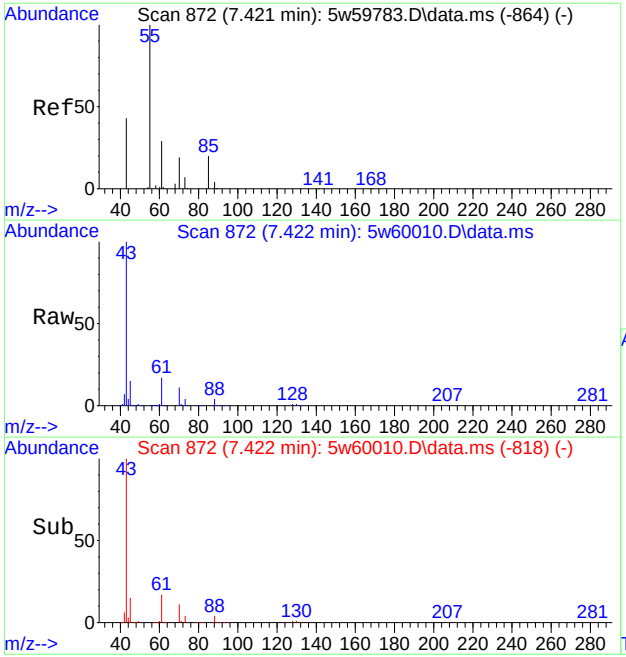


#41
METHYL ETHYL KETONE
Concen: 1.07 PPBV
RT: 6.822 min Scan# 774
Delta R.T. 0.025 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 72 Resp: 20434

Ion	Ratio	Lower	Upper
72	100		
57	33.4	4.8	64.8
43	409.1	415.9	475.9#

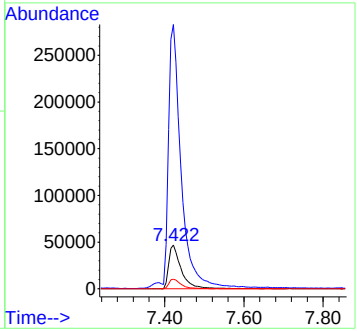


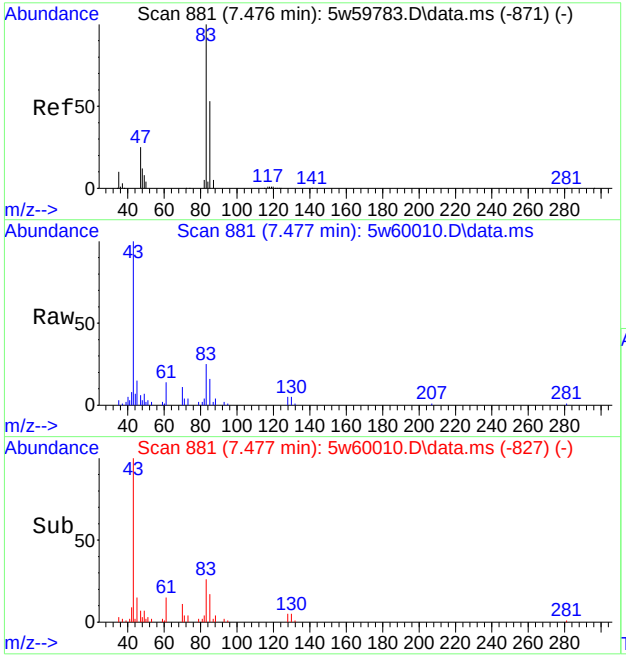


#44
ETHYL ACETATE
Concen: 7.17 PPBV
RT: 7.422 min Scan# 872
Delta R.T. 0.001 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 61 Resp: 104108

Ion	Ratio	Lower	Upper
61	100		
43	601.5	560.5	620.5
88	21.2	4.5	64.5

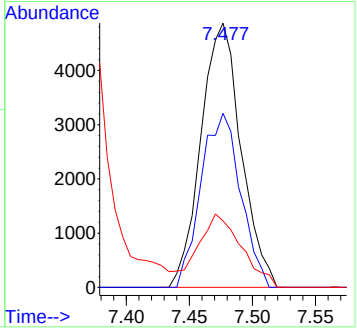


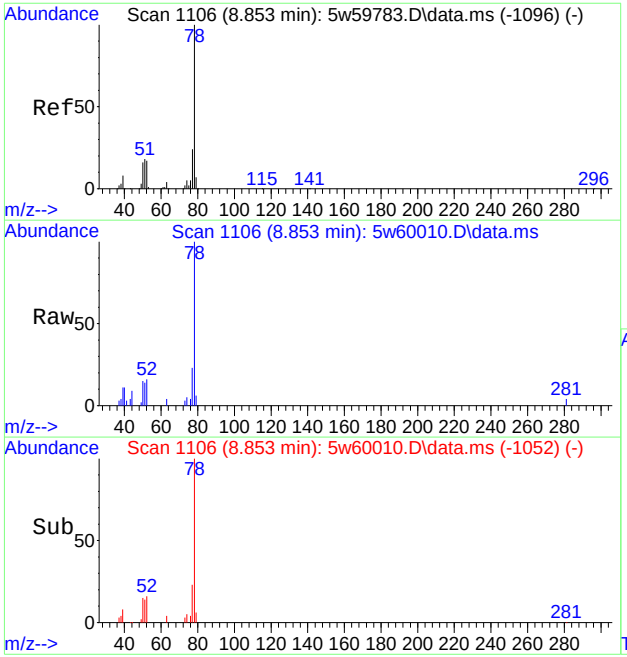


#46
CHLOROFORM
Concen: 0.10 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 83 Resp: 10772

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.6	95.6
47	29.8	0.0	55.2

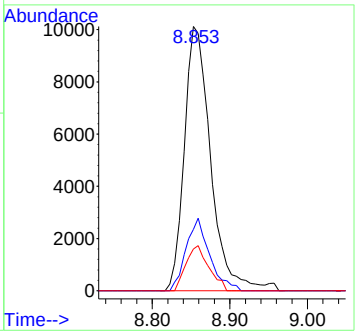


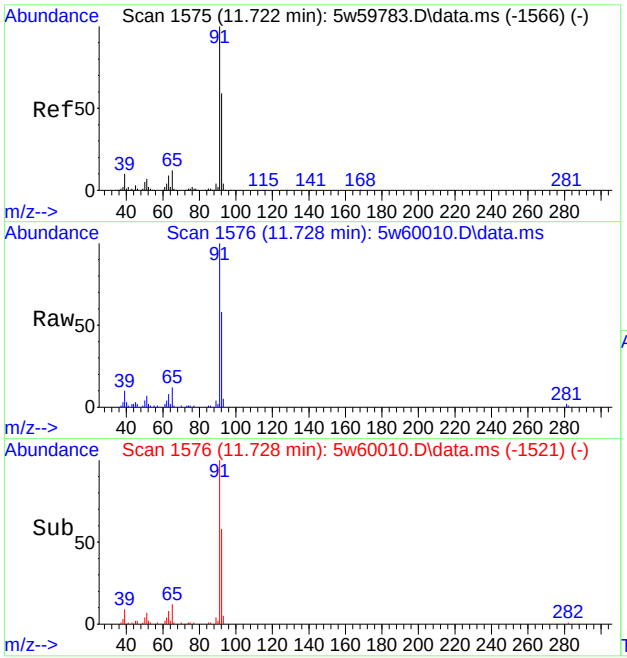


#52
BENZENE
Concen: 0.16 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 78 Resp: 24017

Ion	Ratio	Lower	Upper
78	100		
77	24.5	0.0	53.8
52	14.8	0.0	46.9

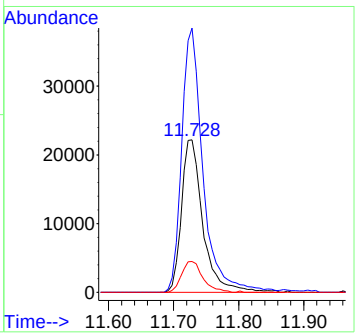


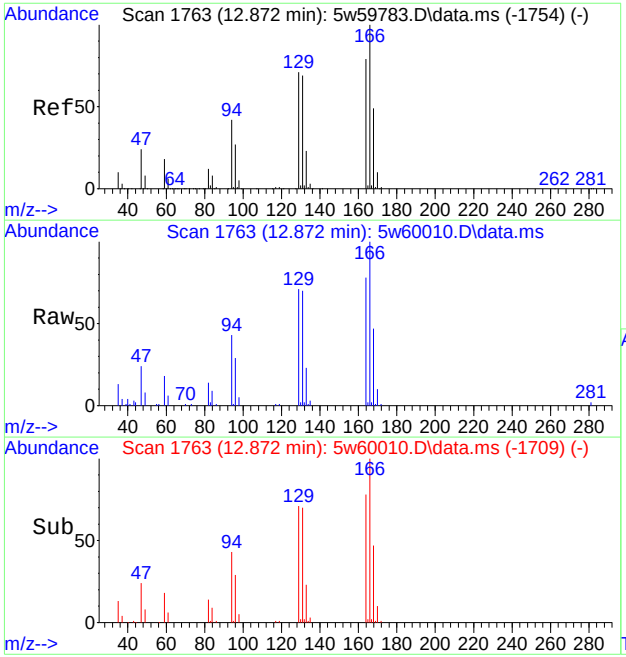


#66
TOLUENE
Concen: 0.46 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 92 Resp: 50805

Ion	Ratio	Lower	Upper
92	100		
91	173.8	140.1	200.1
65	20.2	0.0	53.1

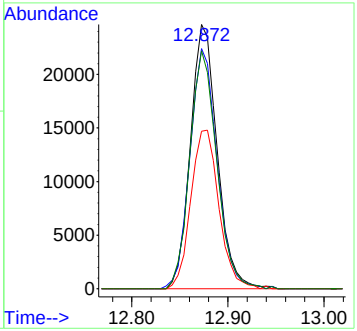


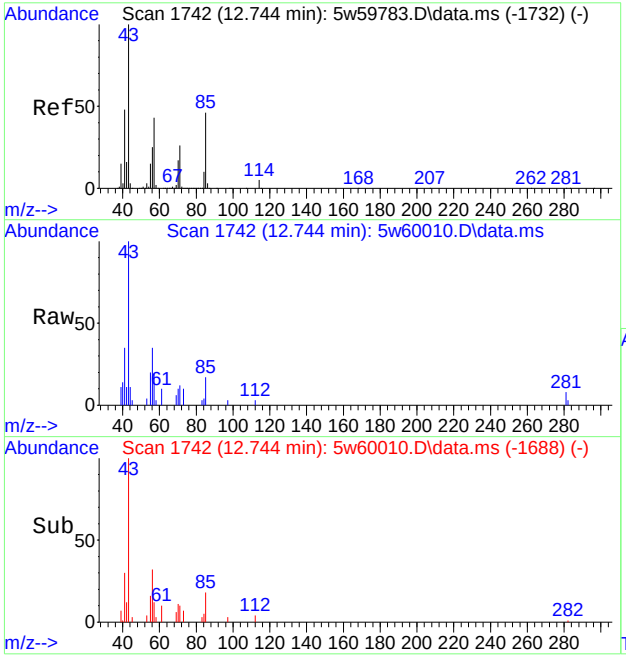


#73
TETRACHLOROETHYLENE
Concen: 0.66 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion:164 Resp: 47806

Ion	Ratio	Lower	Upper
164	100		
129	92.4	59.7	119.7
168	63.0	32.2	92.2
131	90.7	57.8	117.8

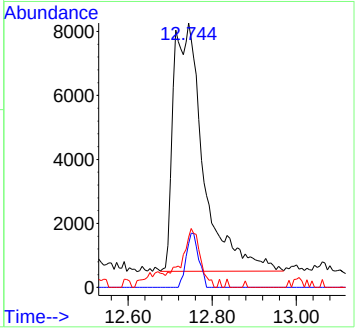


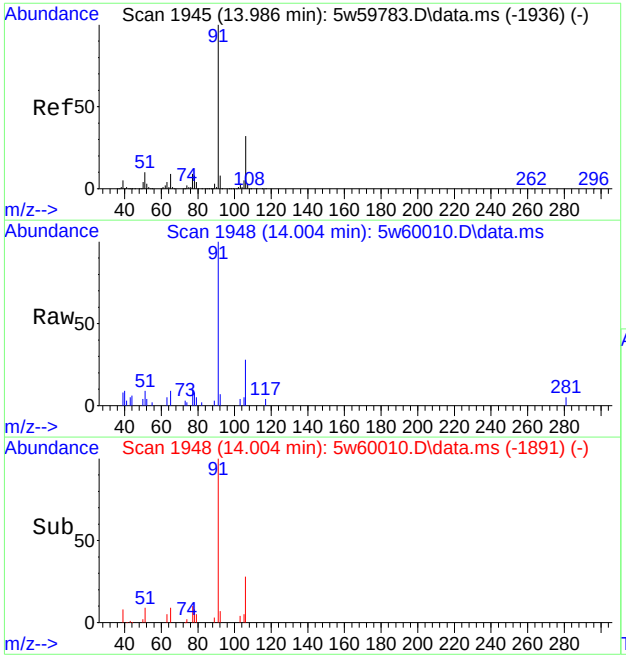


#76
OCTANE
Concen: 0.38 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 43 Resp: 38637

Ion	Ratio	Lower	Upper
43	100		
85	9.0	14.6	74.6#
57	11.6	13.7	73.7#

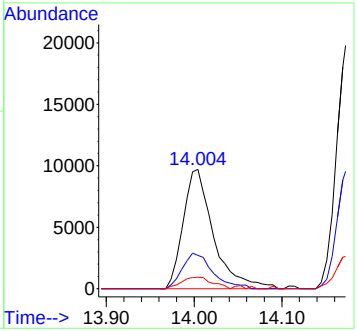


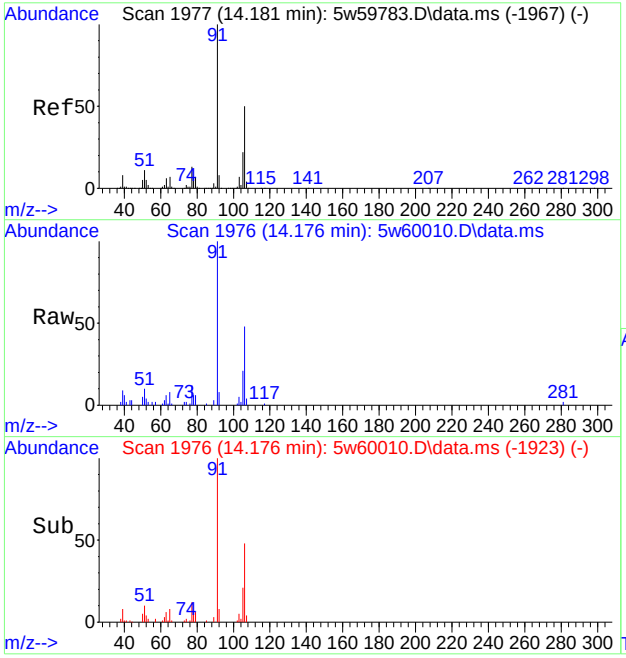


#79
ETHYLBENZENE
Concen: 0.11 PPBV
RT: 14.004 min Scan# 1948
Delta R.T. 0.018 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion: 91 Resp: 23366

Ion	Ratio	Lower	Upper
91	100		
106	29.9	1.3	61.3
77	9.9	0.0	38.6

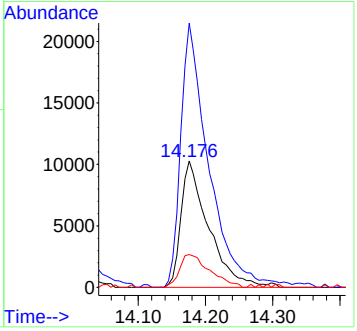


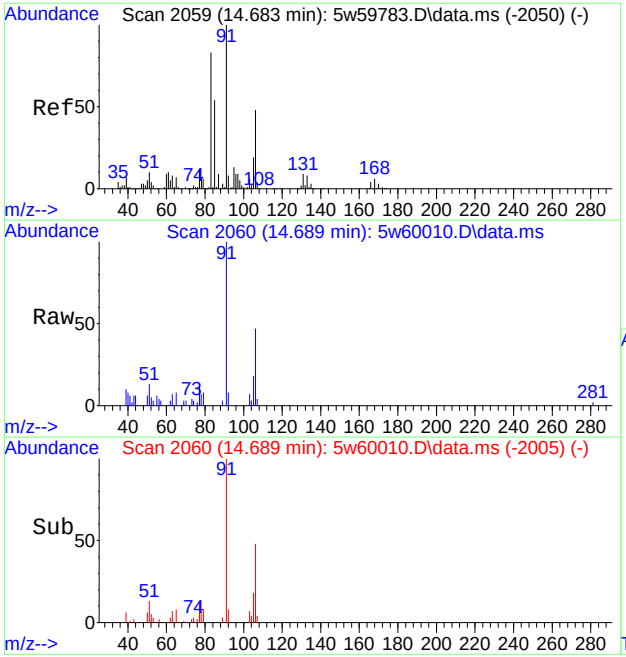


#80
m,p-XYLENE
Concen: 0.36 PPBV
RT: 14.176 min Scan# 1976
Delta R.T. -0.005 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion:106 Resp: 29413

Ion	Ratio	Lower	Upper
106	100		
91	209.2	171.0	231.0
77	26.0	0.0	56.7

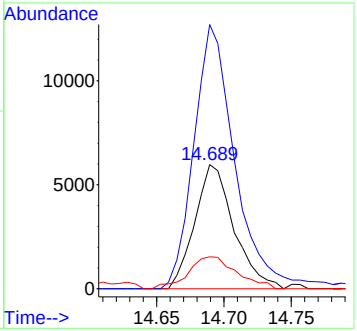


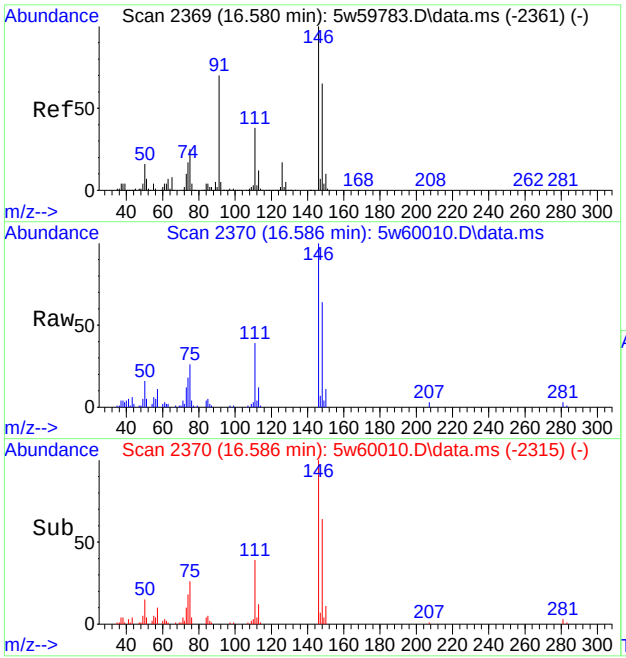


#81
o-XYLENE
Concen: 0.16 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion:106 Resp: 12086

Ion	Ratio	Lower	Upper
106	100		
91	226.1	181.6	241.6
77	31.8	0.0	56.6

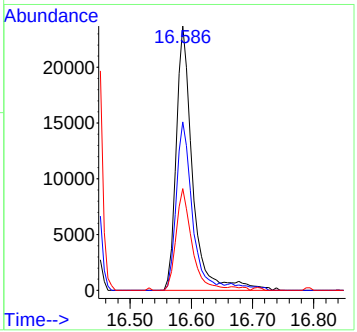




#97
m-DICHLOROBENZENE
Concen: 0.32 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w60010.D
Acq: 24 Nov 2025 5:58 pm

Tgt Ion:146 Resp: 44302

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.8	94.8
111	38.2	8.2	68.2



Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-25-2025\V7W655\
Data File : 7w18786.D
Acq On : 25 Nov 2025 2:13 am
Operator : williamc
Sample : je23790-4
Misc : MS99437,v7w655,500,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:04:45 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

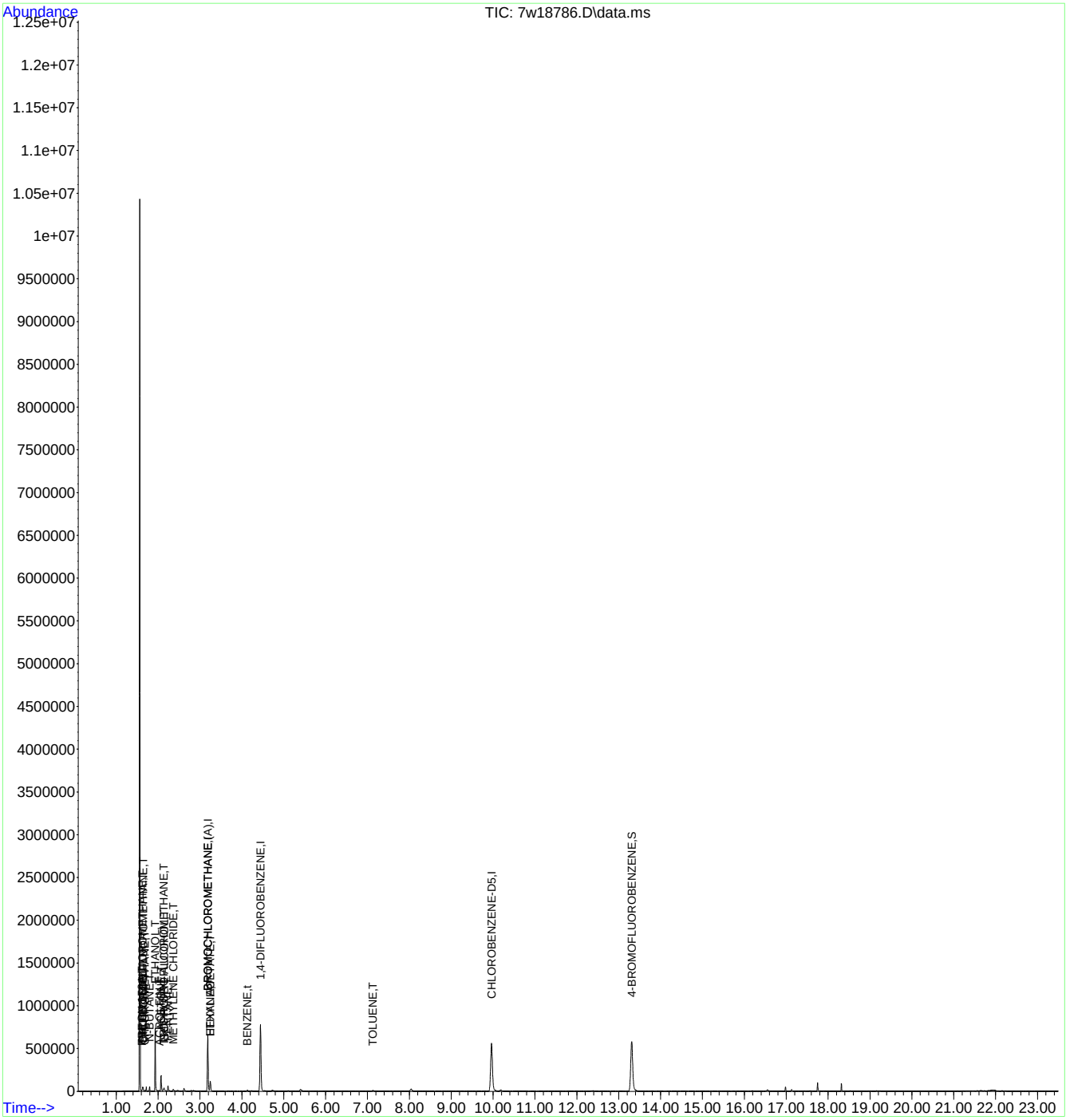
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	123167	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.444	114	594551	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	551788	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	123167	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.306	95	411880	9.27	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.602	65	1087	0.1410	PPBV		88
4) CHLORODIFLUOROMETHANE	1.615	67	1250	0.3735	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.644	85	16896	0.5728	PPBV		97
7) PROPYLENE	1.628	41	5618	0.5631	PPBV		79
10) CHLOROMETHANE	1.685	52	2163	0.5113	PPBV		88
13) N-BUTANE	1.798	43	22403	1.1190	PPBV	#	95
18) ACROLEIN	2.033	56	4322	0.6503	PPBV		88
21) TRICHLOROFLUOROMETHANE	2.126	101	9581	0.2991	PPBV		97
22) ISOPROPYL ALCOHOL	2.142	45	27319	1.0063	PPBV	#	87
23) ACETONE	2.068	58	45974	6.1939	PPBV		85
24) PENTANE	2.238	42	12922	0.8789	PPBV		92
28) ETHANOL	1.930	45	404506	55.9679	PPBV		99
31) METHYLENE CHLORIDE	2.361	84	4763	0.3979	PPBV		86
38) HEXANE	3.238	57	6552	0.2545	PPBV		86
44) ETHYL ACETATE	3.251	61	14489	2.9363	PPBV	#	1
51) BENZENE	4.123	78	7283	0.1766	PPBV		86
66) TOLUENE	7.129	91	8330	0.1765	PPBV		96

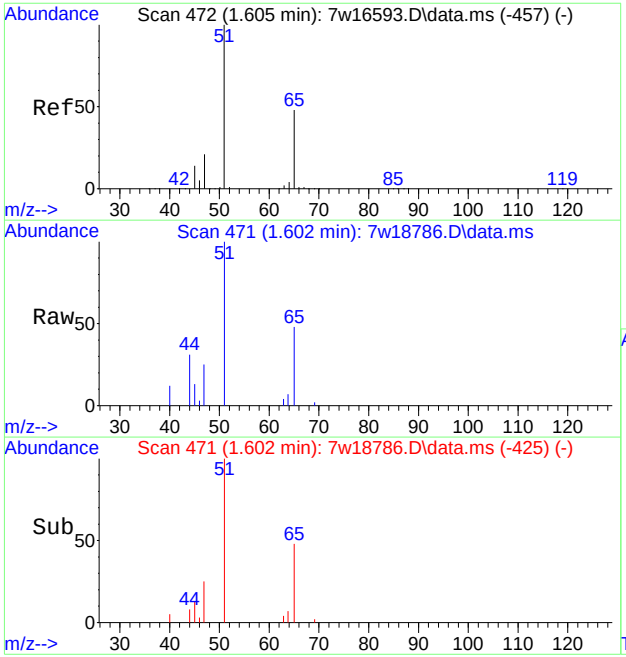
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-25-2025\V7W655\
Data File : 7w18786.D
Acq On : 25 Nov 2025 2:13 am
Operator : williamc
Sample : je23790-4
Misc : MS99437,v7w655,500,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:04:45 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

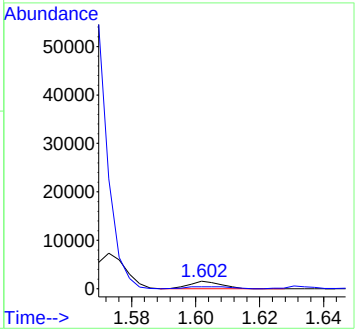


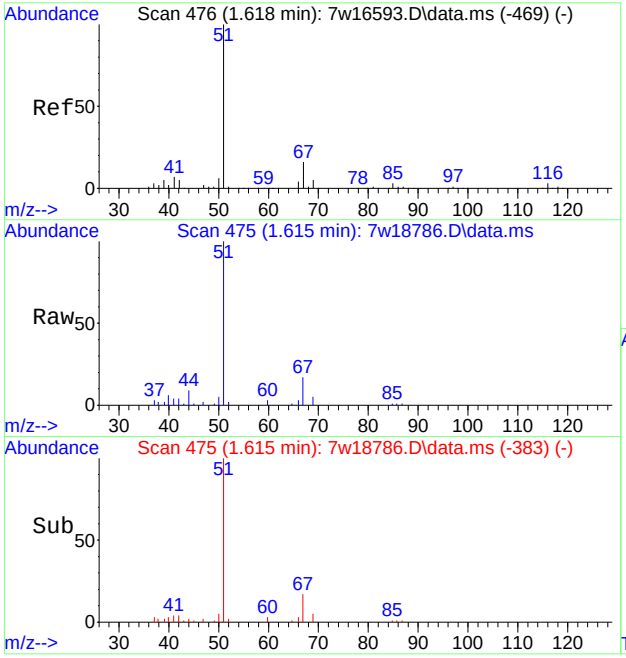


#3
FREON 152A
Concen: 0.14 PPBV
RT: 1.602 min Scan# 471
Delta R.T. -0.003 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 65 Resp: 1087

Ion	Ratio	Lower	Upper
65	100		
45	39.6	23.0	42.8

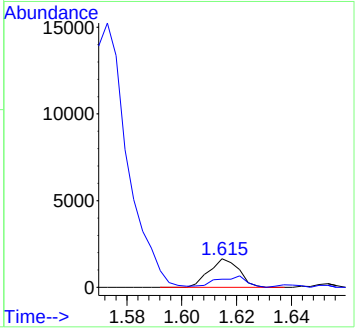


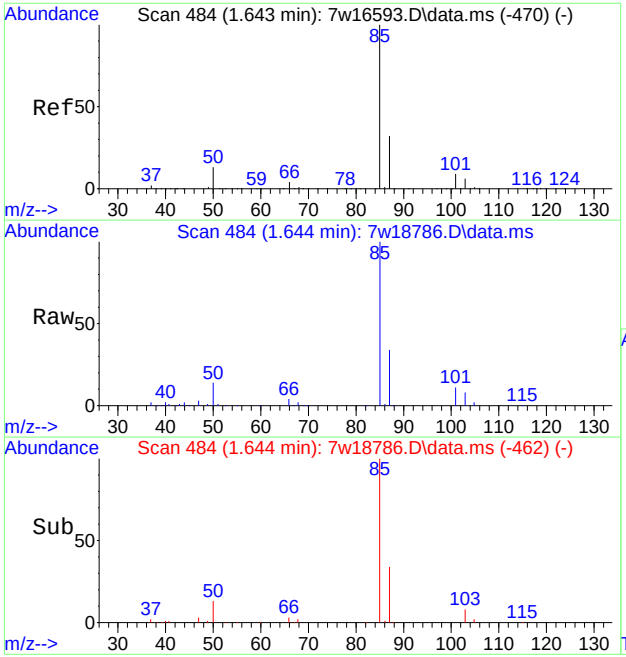


#4
CHLORODIFLUOROMETHANE
Concen: 0.37 PPBV
RT: 1.615 min Scan# 475
Delta R.T. -0.003 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 67 Resp: 1250

Ion	Ratio	Lower	Upper
67	100		
69	38.9	25.3	47.1

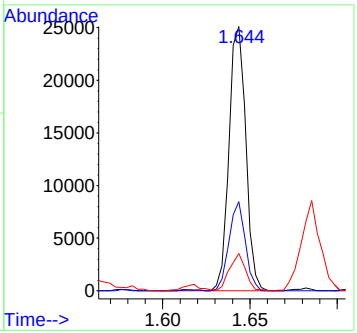


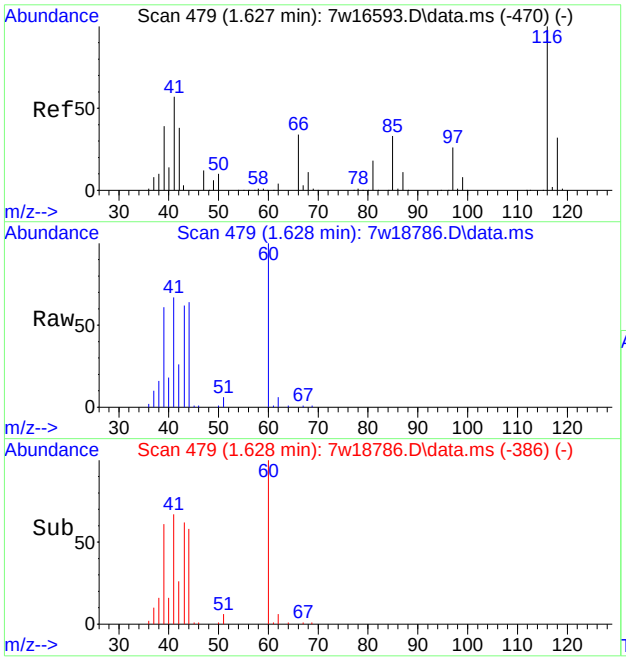


#6
DICHLORODIFLUOROMETHANE
Concen: 0.57 PPBV
RT: 1.644 min Scan# 484
Delta R.T. 0.001 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 85 Resp: 16896

Ion	Ratio	Lower	Upper
85	100		
87	33.0	23.0	42.6
50	16.0	13.5	25.1

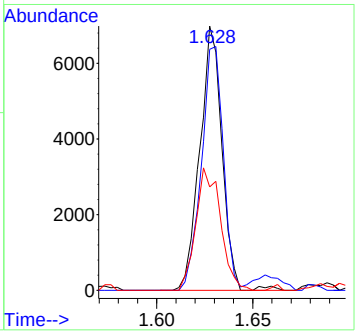


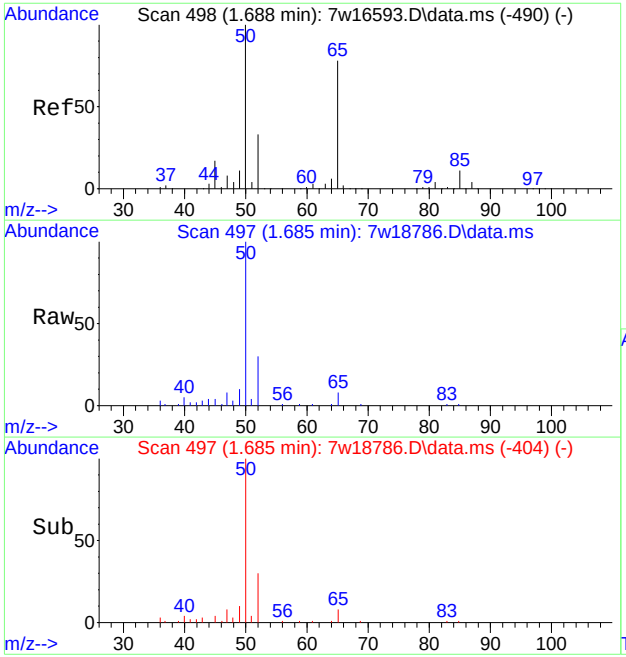


#7
PROPYLENE
Concen: 0.56 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.001 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 41 Resp: 5618

Ion	Ratio	Lower	Upper
41	100		
39	91.6	50.5	93.7
42	52.3	47.0	87.4

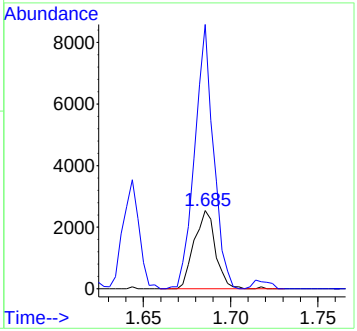


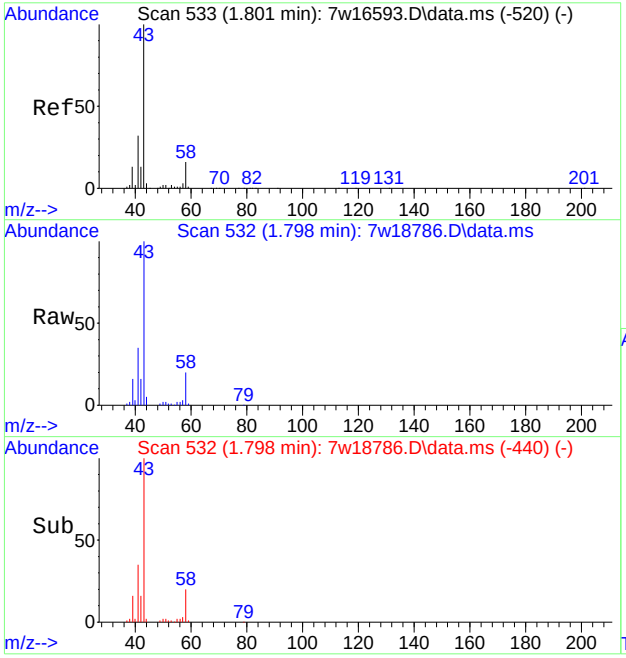


#10
CHLOROMETHANE
Concen: 0.51 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 52 Resp: 2163

Ion	Ratio	Lower	Upper
52	100		
50	298.1	225.6	419.0

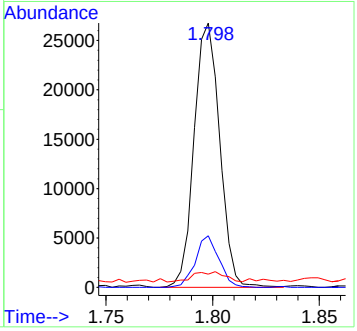


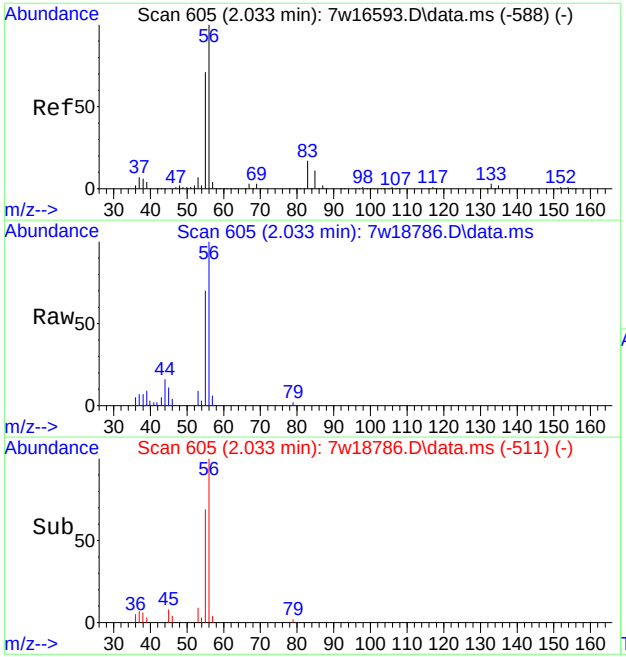


#13
N-BUTANE
Concen: 1.12 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 43 Resp: 22403

Ion	Ratio	Lower	Upper
43	100		
58	17.9	11.0	20.4
44	5.7	2.6	4.8#

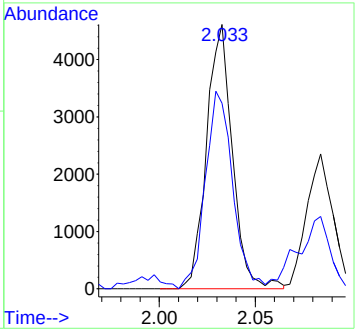


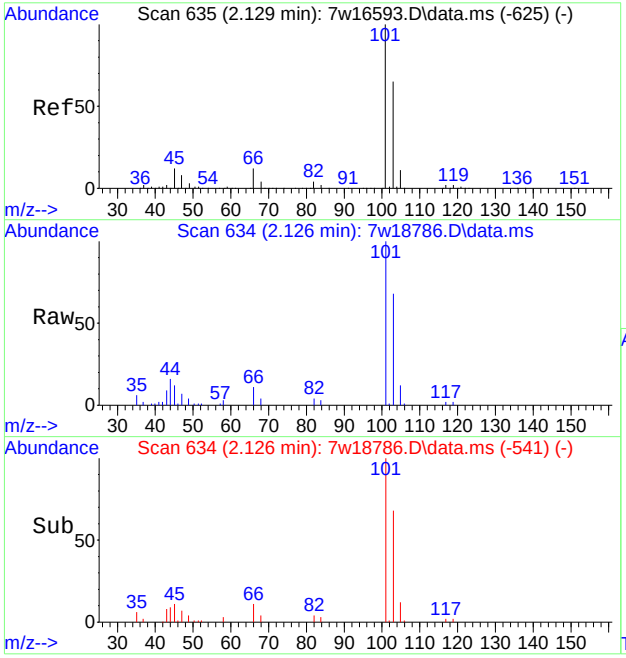


#18
ACROLEIN
Concen: 0.65 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.001 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 56 Resp: 4322

Ion	Ratio	Lower	Upper
56	100		
55	79.5	48.9	90.7

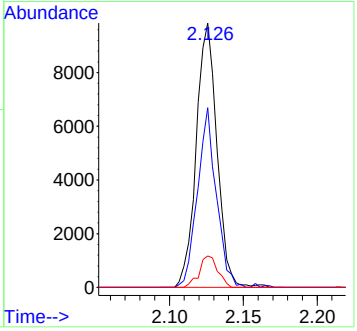


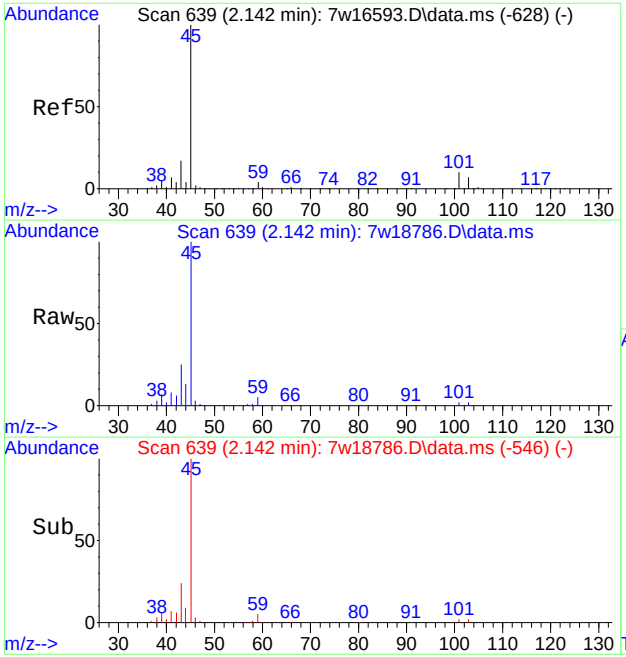


#21
TRICHLOROFLUOROMETHANE
Concen: 0.30 PPBV
RT: 2.126 min Scan# 634
Delta R.T. -0.000 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion:101 Resp: 9581

Ion	Ratio	Lower	Upper
101	100		
103	61.6	45.2	84.0
105	10.7	7.3	13.5

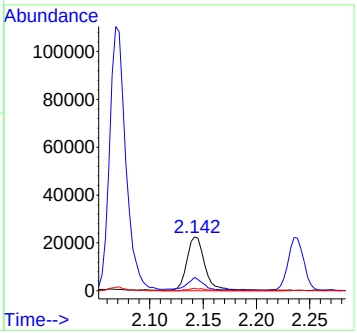


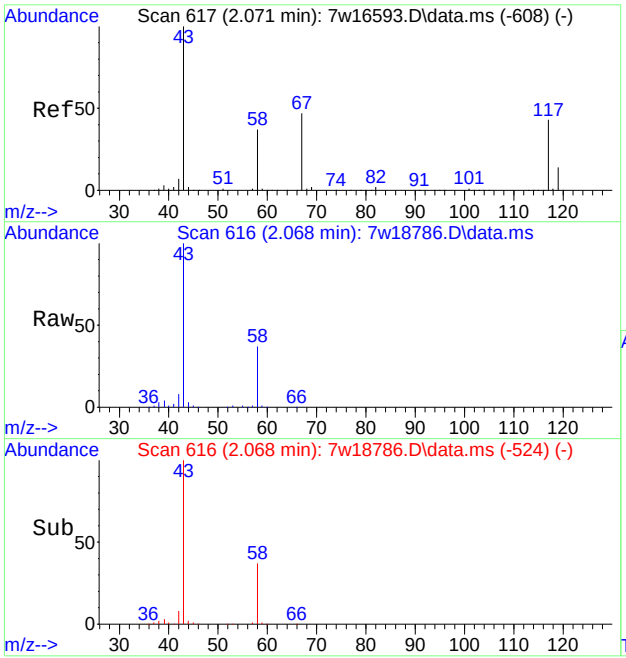


#22
ISOPROPYL ALCOHOL
Concen: 1.01 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 45 Resp: 27319

Ion	Ratio	Lower	Upper
45	100		
43	24.7	12.5	23.3#
59	4.3	3.1	5.7

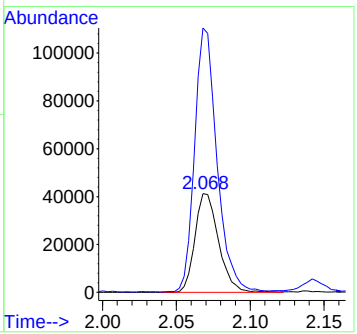


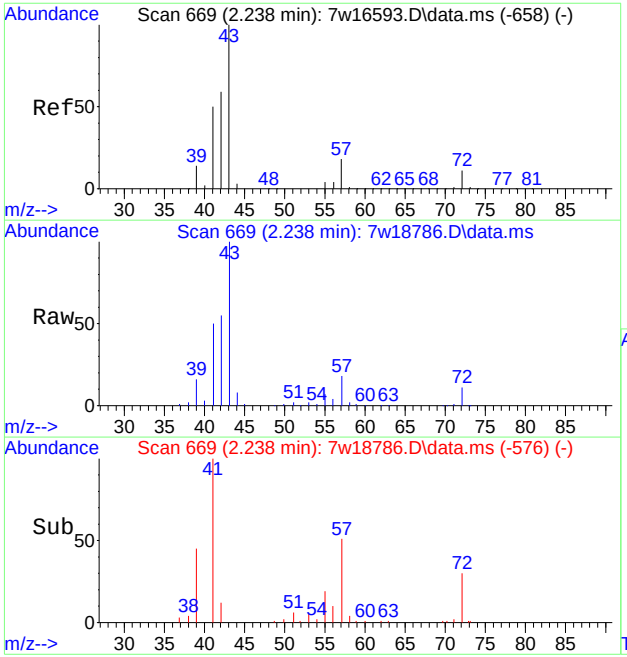


#23
ACETONE
Concen: 6.19 PPBV
RT: 2.068 min Scan# 616
Delta R.T. -0.003 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 58 Resp: 45974

Ion	Ratio	Lower	Upper
58	100		
43	254.4	198.6	368.8

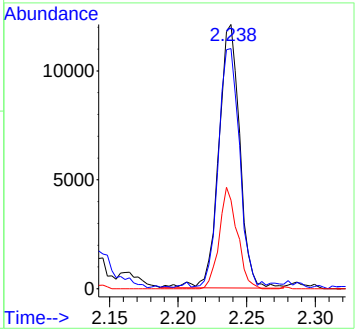


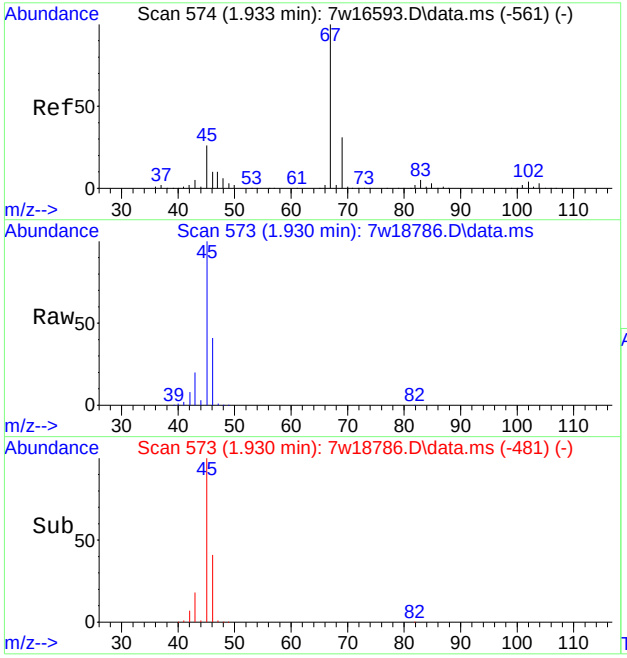


#24
PENTANE
Concen: 0.88 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 42 Resp: 12922

Ion	Ratio	Lower	Upper
42	100		
41	93.7	59.8	111.0
57	32.9	21.1	39.1

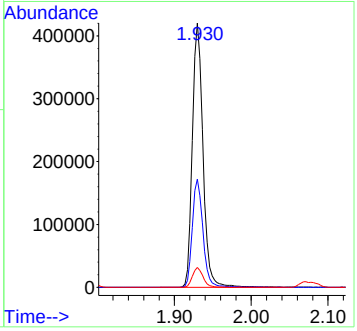


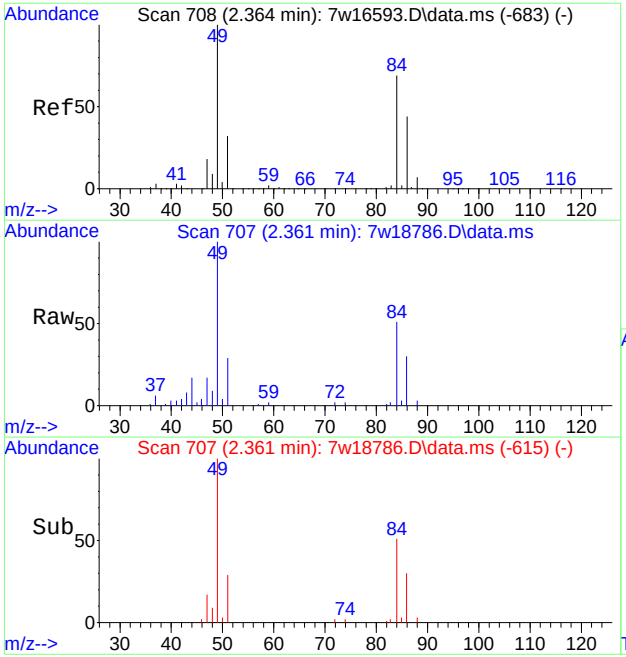


#28
ETHANOL
Concen: 55.97 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.003 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 45 Resp: 404506

Ion	Ratio	Lower	Upper
45	100		
46	40.9	29.0	53.9
42	7.5	5.7	10.5

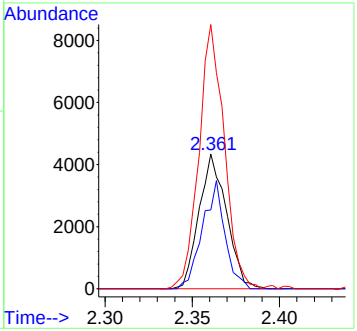


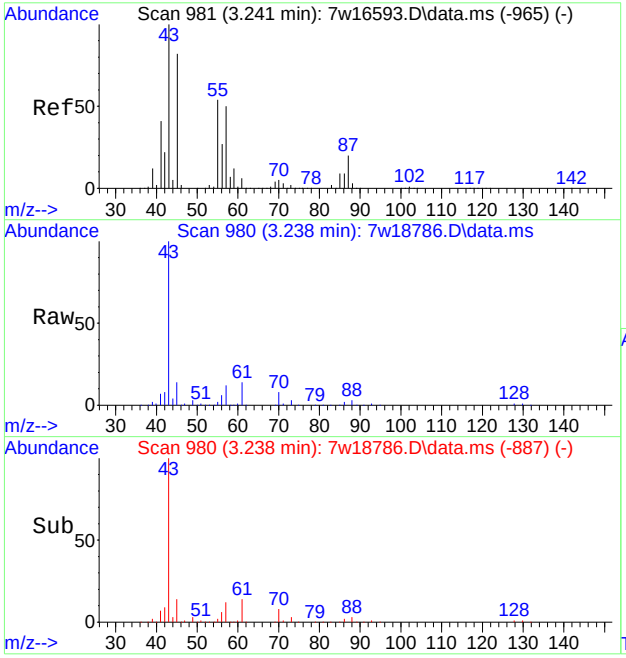


#31
METHYLENE CHLORIDE
Concen: 0.40 PPBV
RT: 2.361 min Scan# 707
Delta R.T. -0.003 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 84 Resp: 4763

Ion	Ratio	Lower	Upper
84	100		
86	65.5	44.3	82.3
49	180.7	109.5	203.3

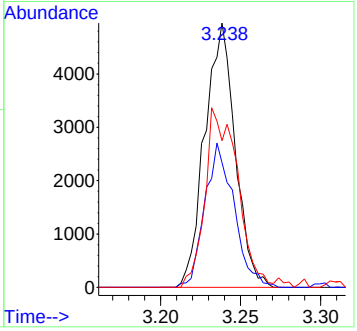


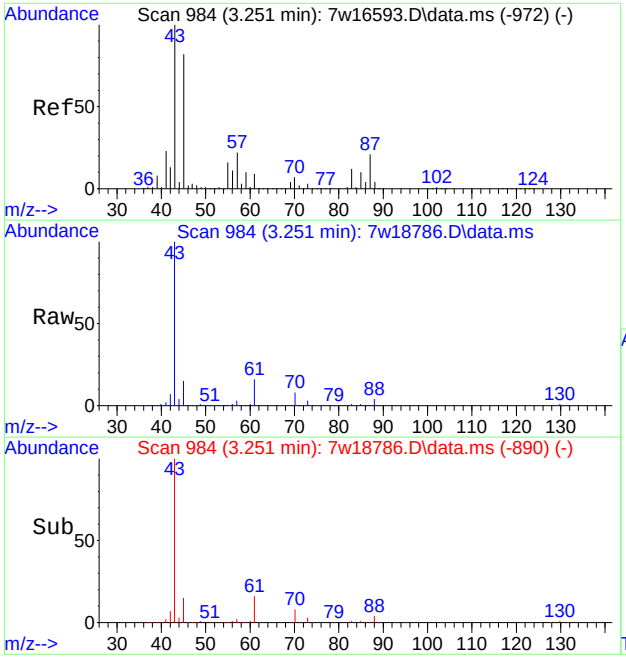


#38
HEXANE
Concen: 0.25 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 57 Resp: 6552

Ion	Ratio	Lower	Upper
57	100		
56	52.6	38.0	70.6
41	73.5	65.9	122.5

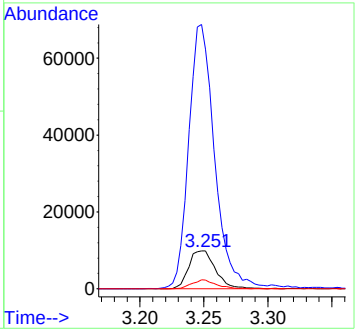


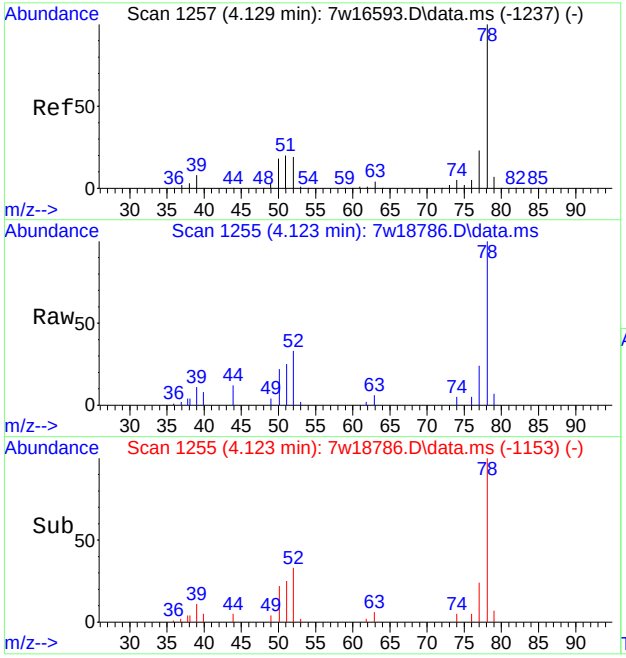


#44
ETHYL ACETATE
Concen: 2.94 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 61 Resp: 14489

Ion	Ratio	Lower	Upper
61	100		
43	680.5	955.4	1774.4#
88	21.6	27.6	51.2#

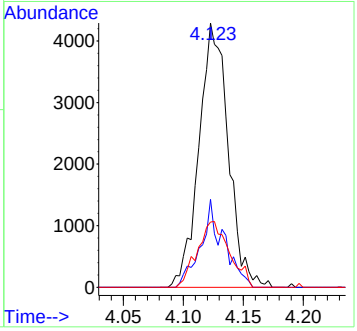


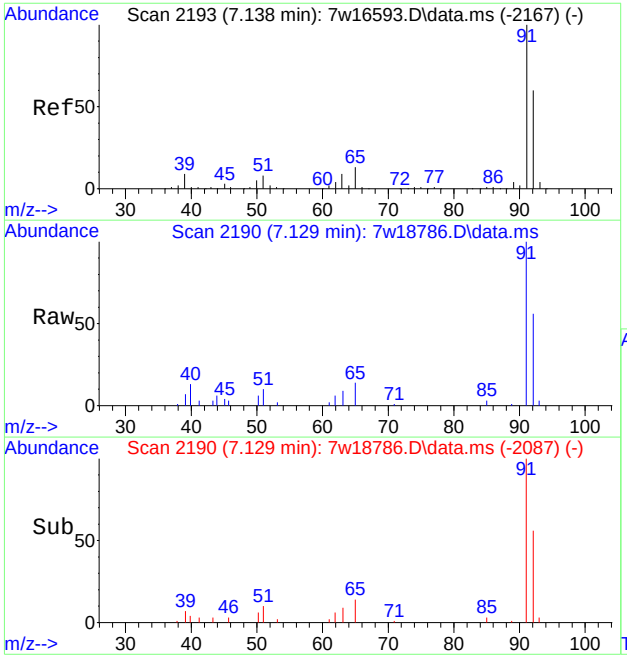


#51
BENZENE
Concen: 0.18 PPBV
RT: 4.123 min Scan# 1255
Delta R.T. -0.003 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 78 Resp: 7283

Ion	Ratio	Lower	Upper
78	100		
52	26.4	0.0	49.9
51	27.4	0.0	50.6

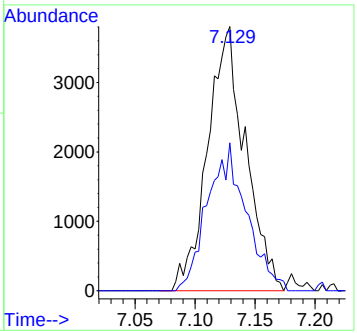




#66
TOLUENE
Concen: 0.18 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. -0.000 min
Lab File: 7w18786.D
Acq: 25 Nov 2025 2:13 am

Tgt Ion: 91 Resp: 8330

Ion	Ratio	Lower	Upper
91	100		
92	57.0	30.3	90.3



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18769.D
Acq On : 24 Nov 2025 12:43 pm
Operator : williamc
Sample : mb Inst : MS7W
Misc : MS92114,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:18:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

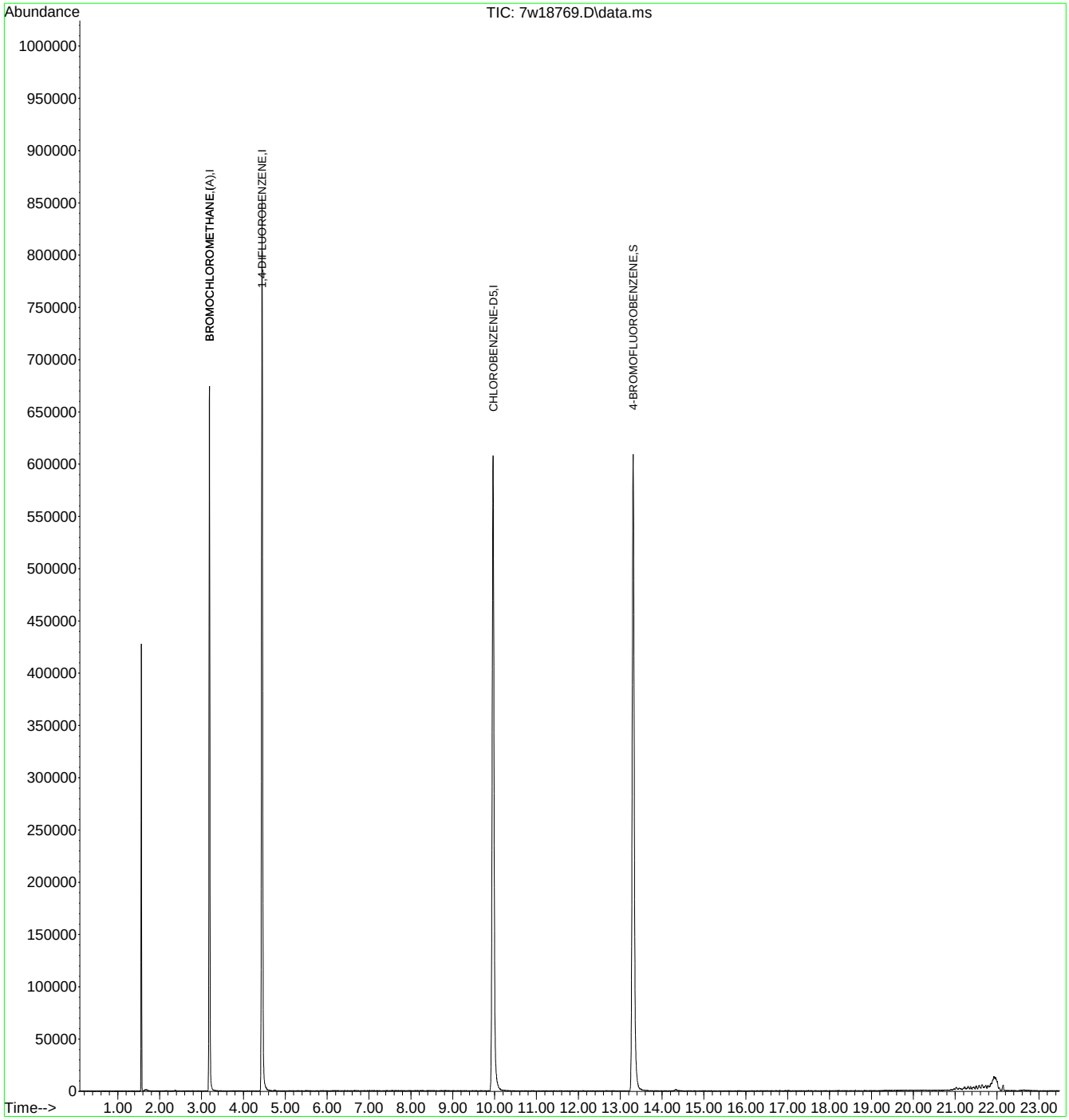
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	138916	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.444	114	676090	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	624942	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	138916	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.309	95	433098	8.61	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18769.D
Acq On : 24 Nov 2025 12:43 pm
Operator : williamc
Sample : mb Inst : MS7W
Misc : MS92114,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:18:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

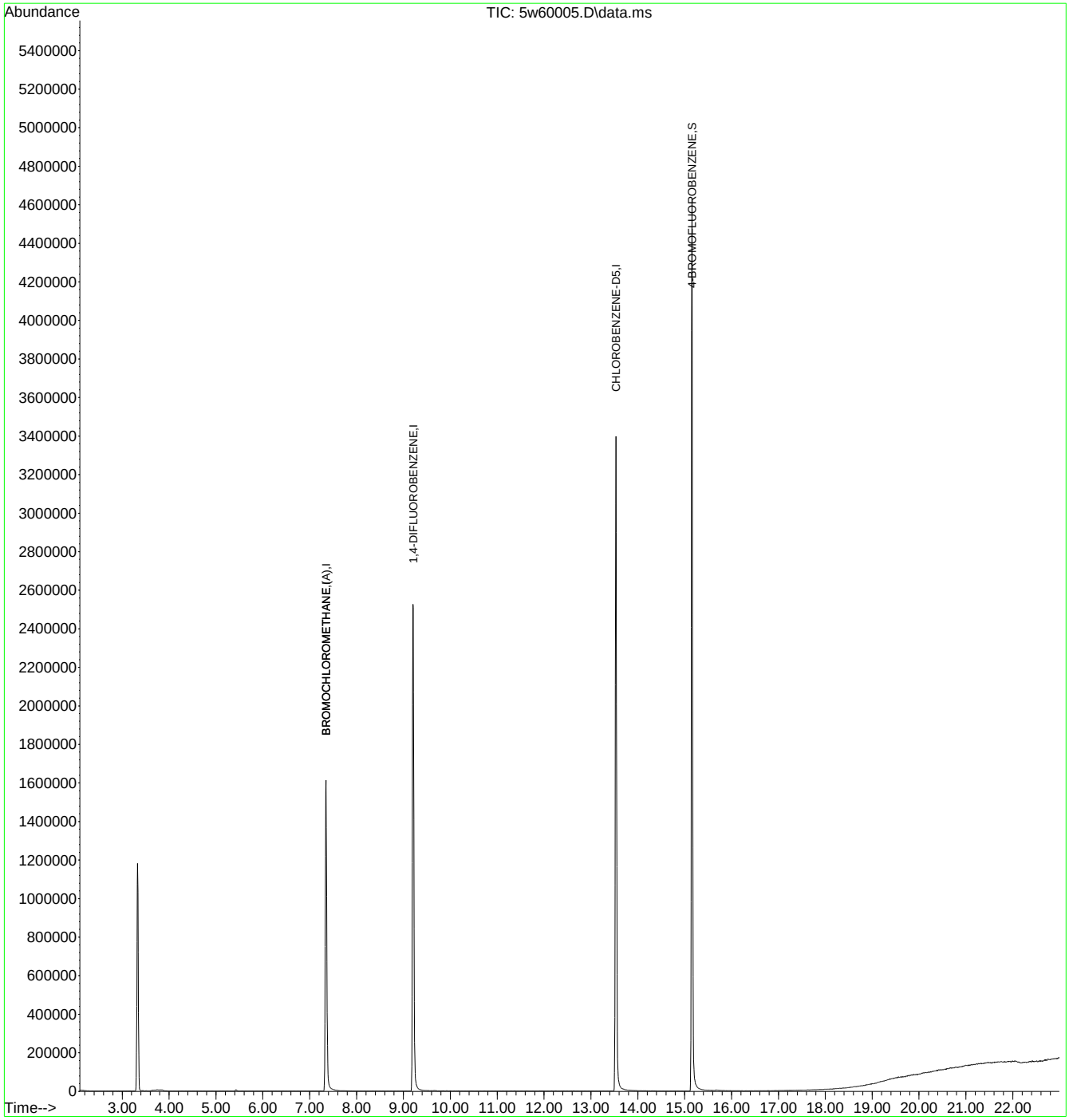
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	551412	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2422137	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1175032	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	553790	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1558462	10.62	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.20%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

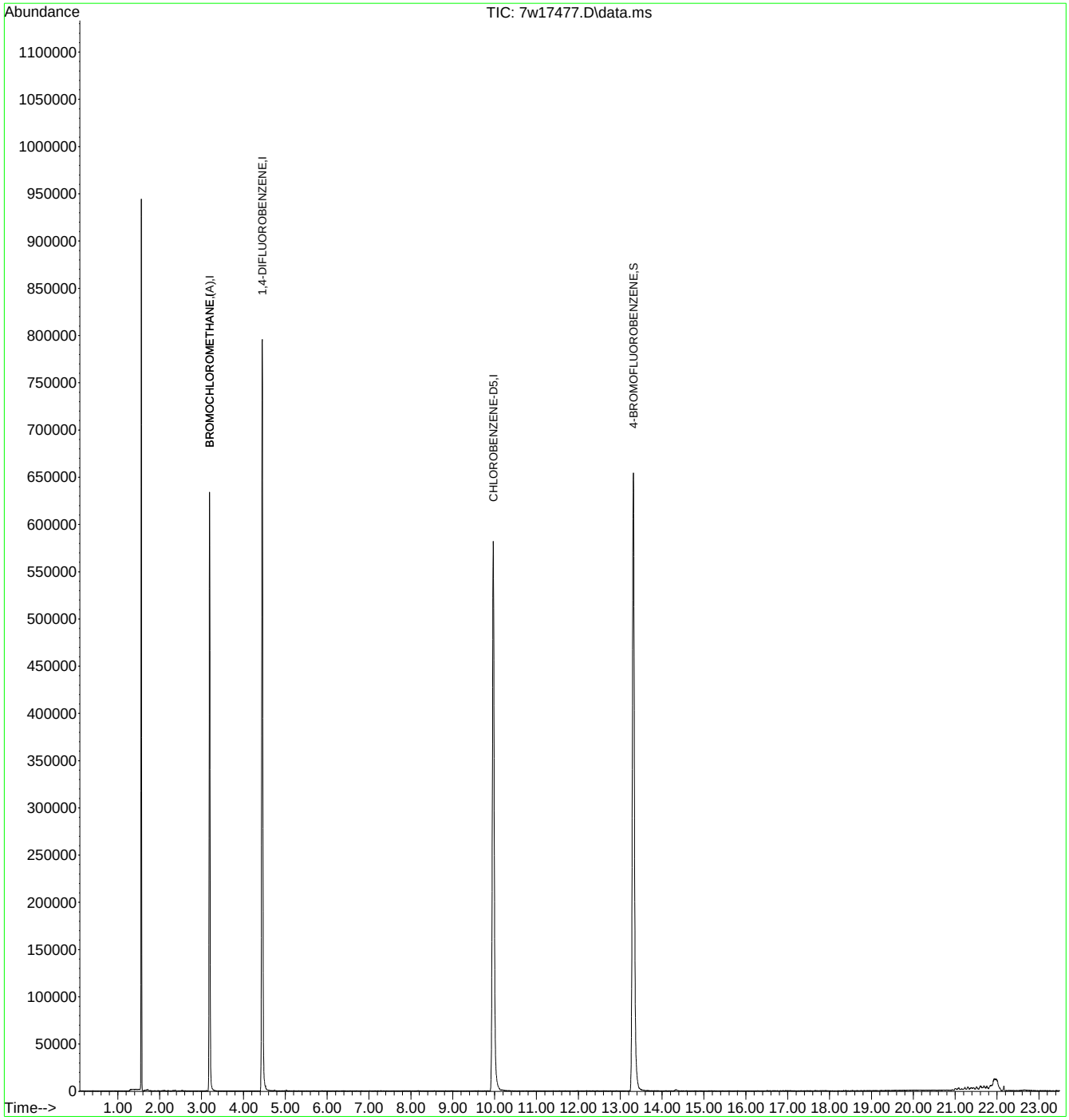
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	128174	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	642694	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	594320	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	128174	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	451678	9.44	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

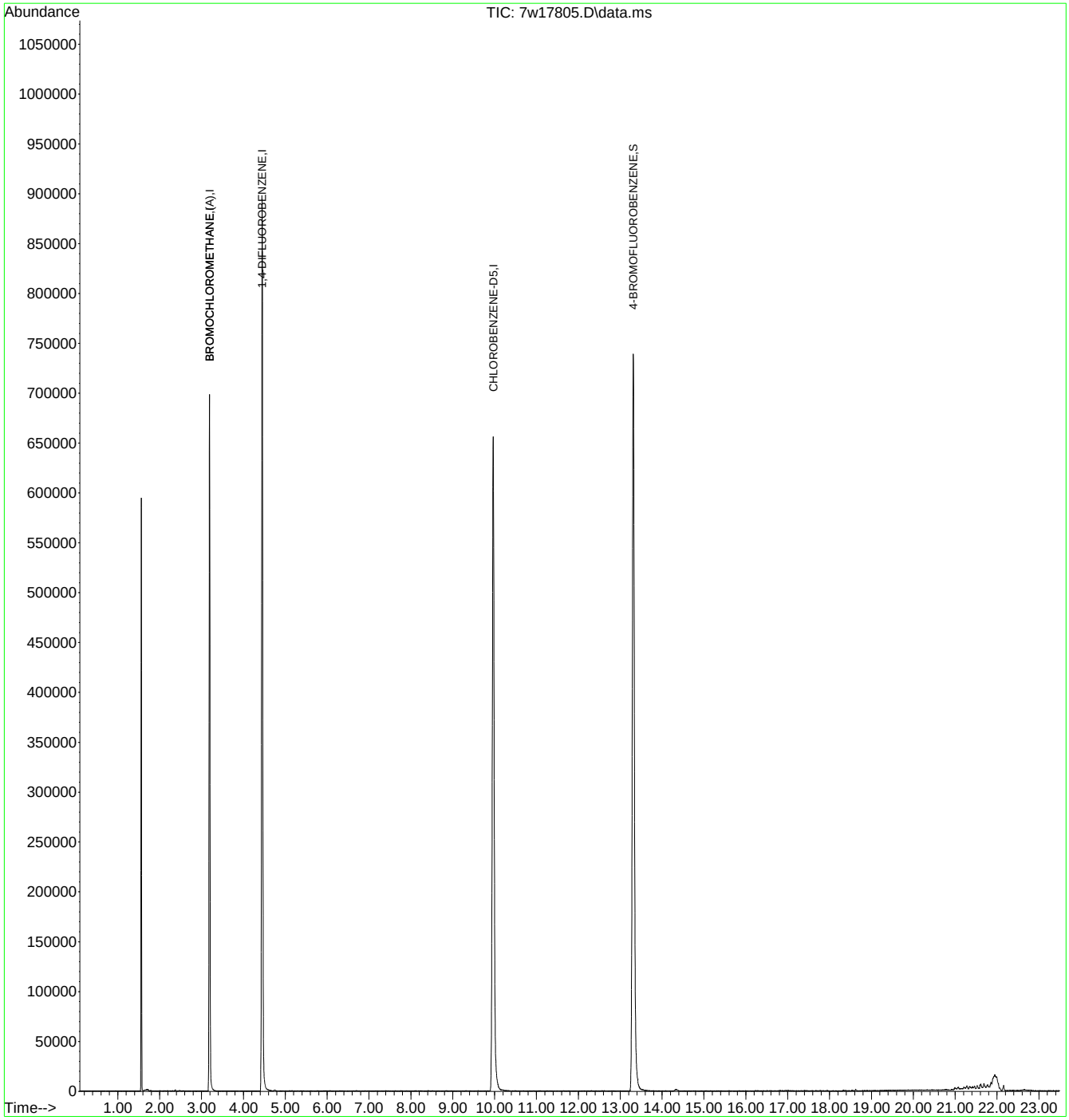
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	141808	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	703798	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	657479	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	141808	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	501563	9.47	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/25/25 18:38

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:57:41 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	127067	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	594082	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	555791	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	127067	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	421047	9.41	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	163094	10.5806	PPBV		85
3) FREON 152A	1.605	65	69206	8.7026	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	34526	10.0004	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.628	116	178104	10.7213	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	343402m	11.2845	PPBV		
7) PROPYLENE	1.628	41	77948	7.5732	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	325663	12.0282	PPBV		96
9) FREON 114	1.714	85	321722	10.2566	PPBV		90
10) CHLOROMETHANE	1.685	52	43649	10.0017	PPBV		88
11) VINYL CHLORIDE	1.747	62	152204	9.8492	PPBV		98
12) 1,3-BUTADIENE	1.785	54	121051	9.9172	PPBV		93
13) N-BUTANE	1.798	43	190828	9.2393	PPBV		96
14) BROMOMETHANE	1.856	94	119776	9.9957	PPBV		100
15) CHLOROETHANE	1.904	64	77896	9.2866	PPBV		91
16) DICHLOROFLUOROMETHANE	1.930	67	287874	9.9107	PPBV		98
17) ACETONITRILE	1.994	41	106466	7.3765	PPBV		100
18) ACROLEIN	2.033	56	69912	10.1967	PPBV		96
19) FREON 123	2.046	83	288819	9.8687	PPBV	#	95
20) FREON 123A	2.062	117	212339	12.2470	PPBV		79
21) TRICHLOROFLUOROMETHANE	2.126	101	391238	11.8374	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	287398	10.2614	PPBV		97
23) ACETONE	2.068	58	81953	10.7023	PPBV		88
24) PENTANE	2.238	42	132467	8.7331	PPBV		93
25) IODOMETHANE	2.300	142	360086	11.8417	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.325	96	130669	10.3717	PPBV		95
27) CARBON DISULFIDE	2.460	76	319954	8.9505	PPBV		99
28) ETHANOL	1.933	45	63856	8.5640	PPBV		98
29) BROMOETHENE	2.004	106	124693	10.3649	PPBV		99
30) ACRYLONITRILE	2.210	52	116550	10.8237	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	107904	8.7370	PPBV		99
32) 3-CHLOROPROPENE	2.406	76	56070	8.3205	PPBV		88
33) FREON 113	2.460	151	222801	11.7407	PPBV		92
34) TRANS-1,2-DICHLOROETHENE	2.685	96	129039	9.3093	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.338	59	291259	8.3236	PPBV		94
36) METHYL TERTIARY BUTYL ...	2.792	73	339256	8.6040	PPBV		98
37) TETRAHYDROFURAN	3.467	72	46424	7.2597	PPBV		99
38) HEXANE	3.238	57	253296	9.5372	PPBV		94
39) VINYL ACETATE	2.827	86	29418	7.7623	PPBV		72
40) 1,1-DICHLOROETHANE	2.759	63	265529	9.9091	PPBV		99
41) METHYL ETHYL KETONE	2.920	72	54844	7.5678	PPBV		82
42) CIS-1,2-DICHLOROETHENE	3.113	96	129772	9.0256	PPBV		94
43) DIISOPROPYL ETHER	3.242	59	70962	9.4239	PPBV		79
44) ETHYL ACETATE	3.248	61	48684	9.5635	PPBV		81
45) METHYL ACRYLATE	3.235	55	314650	9.7907	PPBV	#	100
46) CHLOROFORM	3.261	83	267669	9.6514	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	268472	9.0317	PPBV		98
48) 1,1,1-TRICHLOROETHANE	3.820	97	298172	10.2013	PPBV		97
49) CARBON TETRACHLORIDE	4.235	117	338544	11.1804	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:57:41 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	3.660	62	207408	9.6204	PPBV	99
51) BENZENE	4.126	78	319876	7.5188	PPBV	96
53) CYCLOHEXANE	4.328	84	144219	8.2977	PPBV	85
54) 2,3-DIMETHYLPENTANE	4.582	71	69099	7.9722	PPBV	65
55) TRICHLOROETHENE	5.013	95	171084	9.2339	PPBV	94
56) 1,2-DICHLOROPROPANE	4.779	63	146716	8.9593	PPBV	96
57) DIBROMOMETHANE	4.740	174	168876	10.6963	PPBV	89
58) ETHYL ACRYLATE	4.898	55	349578	9.5374	PPBV	99
59) BROMODICHLOROMETHANE	4.959	83	287677	9.6101	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	721716	8.9974	PPBV	99
61) 1,4-DIOXANE	5.026	88	73362	8.3649	PPBV	91
62) HEPTANE	5.415	43	212995	8.0420	PPBV	91
63) METHYL METHACRYLATE	5.312	69	117970	7.9266	PPBV	96
64) METHYL ISOBUTYL KETONE	6.036	58	138429	8.7158	PPBV	86
65) CIS-1,3-DICHLOROPROPENE	5.933	75	216672	8.6290	PPBV	98
66) TOLUENE	7.126	91	440300	9.3340	PPBV	99
67) 1,3-DICHLOROPROPANE	7.187	76	213535	9.0294	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.608	75	199055	8.7741	PPBV	96
69) 1,1,2-TRICHLOROETHANE	6.762	83	120599	8.9720	PPBV	92
70) 2-HEXANONE	7.692	58	184611	8.3302	PPBV	85
71) ETHYL METHACRYLATE	7.827	69	205720	8.2865	PPBV	98
72) TETRACHLOROETHENE	8.843	164	205144	11.9227	PPBV	99
73) DIBROMOCHLOROMETHANE	7.656	129	341224	12.4916	PPBV	99
74) 1,2-DIBROMOETHANE	7.997	107	263615	10.8406	PPBV	100
75) OCTANE	8.991	43	300216	8.4621	PPBV	95
77) 1,1,1,2-TETRACHLOROETHANE	10.052	131	236408	11.8534	PPBV	98
78) CHLOROBENZENE	10.042	112	404229	10.6464	PPBV	92
79) ETHYLBENZENE	10.923	91	619501	9.9571	PPBV	100
80) M,P-XYLENE	11.344	91	989664	19.6357	PPBV	99
81) O-XYLENE	12.277	91	506538	10.3548	PPBV	97
82) STYRENE	12.068	104	375860	10.2489	PPBV	99
83) NONANE	13.399	43	317297	8.3328	PPBV	88
84) BROMOFORM	11.151	173	300866	12.8238	PPBV	98
85) 1,1,2,2-TETRACHLOROETHANE	12.286	83	321853	9.1850	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	12.572	75	261871	9.5352	PPBV	100
88) ISOPROPYLBENZENE	13.785	120	200008	10.7556	PPBV	92
89) BROMOBENZENE	13.650	77	323265	9.0514	PPBV	83
90) 2-CHLOROTOLUENE	14.781	126	183498	10.5802	PPBV	99
91) N-PROPYLBENZENE	15.122	120	209515	10.6155	PPBV	99
92) 4-ETHYLTOLUENE	15.569	105	753107	10.3108	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	15.836	105	636689	10.4739	PPBV	99
94) ALPHA-METHYLSTYRENE	16.170	118	319771	10.6069	PPBV	99
95) TERT-BUTYLBENZENE	16.495	134	155423	10.4868	PPBV	87
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	667975	11.0842	PPBV	96
97) BENZYL CHLORIDE	16.598	91	481058	9.8808	PPBV	98
98) M-DICHLOROBENZENE	16.569	146	445813	10.7675	PPBV	99
99) P-DICHLOROBENZENE	16.662	146	451358	11.0632	PPBV	99
100) O-DICHLOROBENZENE	16.984	146	424149	11.0436	PPBV	99
101) SEC-BUTYLBENZENE	16.813	134	190081	10.7705	PPBV	97
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	639653	10.5882	PPBV	99
103) P-ISOPROPYLTOLUENE	17.010	134	207830	10.5951	PPBV	86
104) N-BUTYLBENZENE	17.376	134	207704	11.1067	PPBV	94
105) HEXACHLOROETHANE	17.553	117	259631	11.2692	PPBV	100
106) HEXACHLOROBUTADIENE	18.620	225	330768	12.1096	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.309	180	422002	12.8820	PPBV	98
108) NAPHTHALENE	18.354	128	1071047	14.5746	PPBV	100
110) TVHC as equiv Pentane	2.238	TIC	666146	9.2882	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:57:41 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

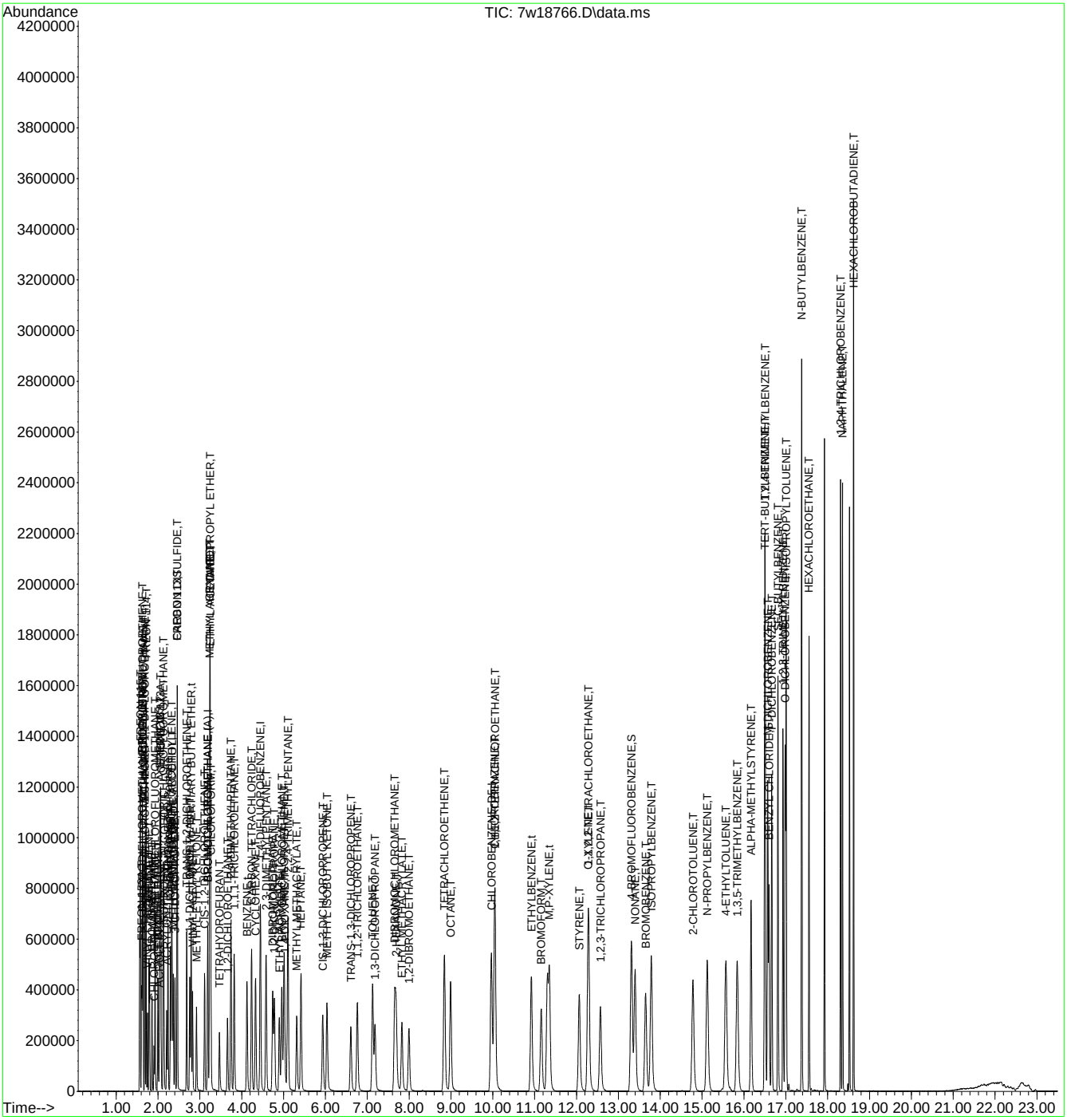
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:57:41 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

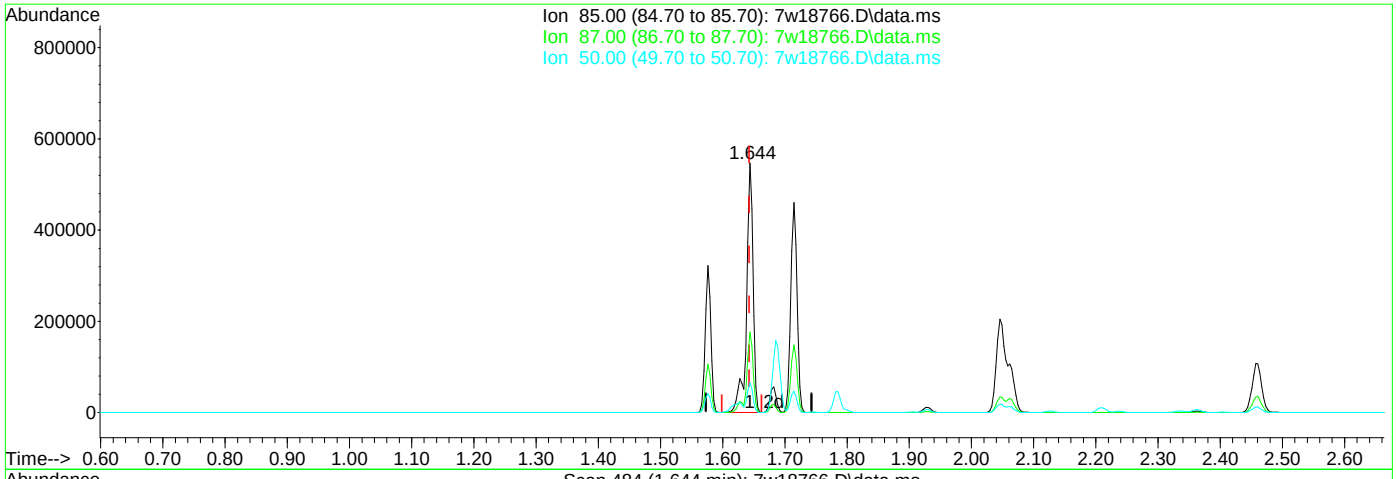
Sample Number: V7W655-BS
Lab FileID: 7W18766.D
Injection Time: 11/24/25 10:35
Method: TO-15
Analyst approved: 11/25/25 13:16 Claire Basilio
Supervisor approved: 11/25/25 18:38 Kanya Veerawat

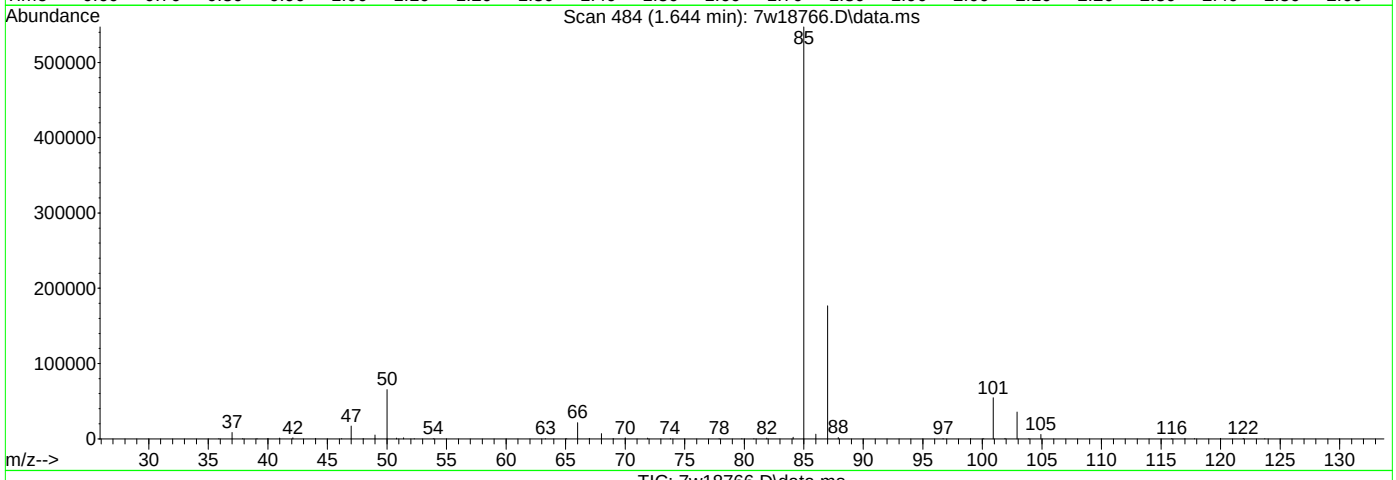
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:02:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18766.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 13.06PPBV

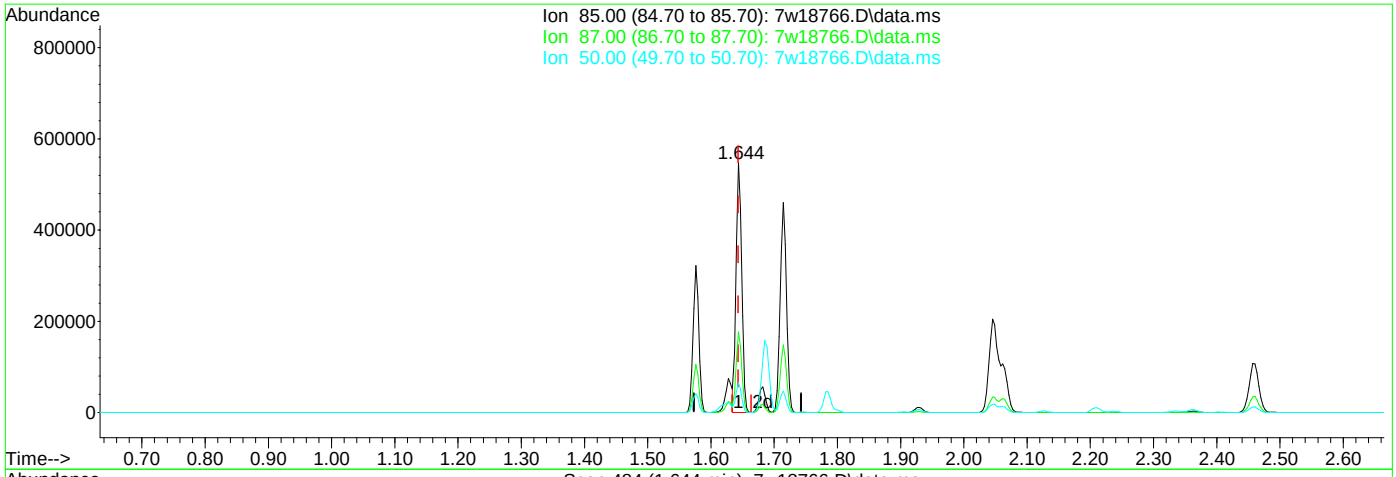
response 397517

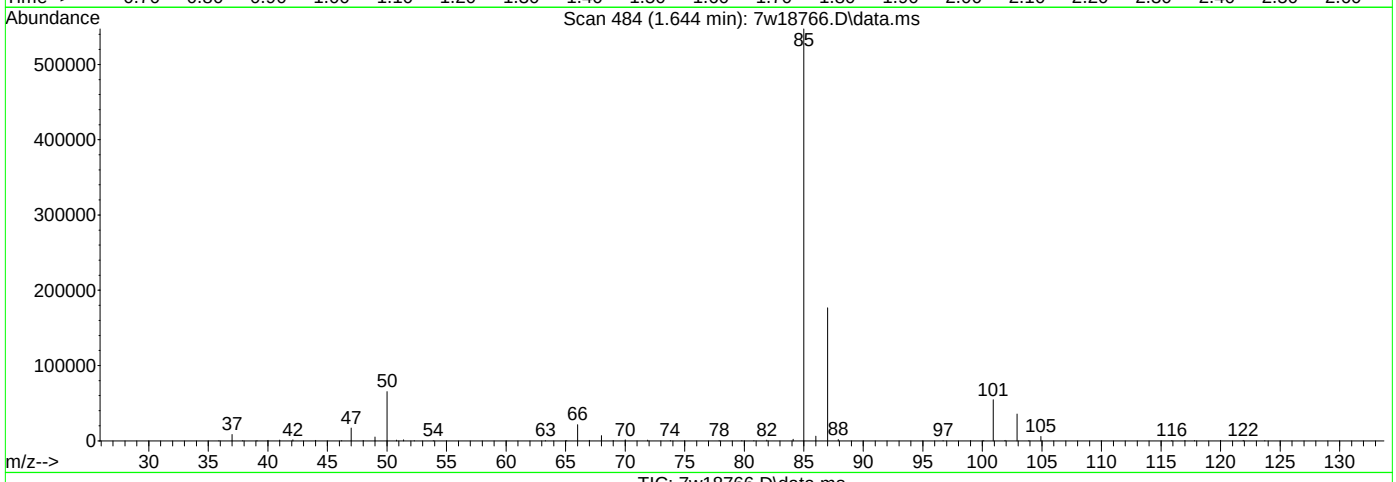
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.31
50.00	19.30	16.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:02:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18766.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 11.28PPBV m

response 343402

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.40
50.00	19.30	19.66
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/25/25 18:38

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:08:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	130042	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	617828	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	553873	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	130042	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	420626	9.43	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	173368	10.9898	PPBV		85
3) FREON 152A	1.605	65	70277	8.6351	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	34839	9.8602	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.628	116	184526	10.8538	PPBV		99
6) DICHLORODIFLUOROMETHANE	1.644	85	347783m	11.1670	PPBV		
7) PROPYLENE	1.628	41	78736	7.4748	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.679	65	330997	11.9455	PPBV		96
9) FREON 114	1.714	85	326696	10.1769	PPBV		90
10) CHLOROMETHANE	1.685	52	43801	9.8069	PPBV		91
11) VINYL CHLORIDE	1.746	62	156029	9.8658	PPBV		99
12) 1,3-BUTADIENE	1.785	54	126483	10.1252	PPBV		91
13) N-BUTANE	1.798	43	191252	9.0480	PPBV		94
14) BROMOMETHANE	1.856	94	123231	10.0487	PPBV		99
15) CHLOROETHANE	1.904	64	78562	9.1518	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	292494	9.8393	PPBV		98
17) ACETONITRILE	1.994	41	107536	7.2802	PPBV		100
18) ACROLEIN	2.033	56	70271	10.0146	PPBV		99
19) FREON 123	2.046	83	297775	9.9419	PPBV	#	96
20) FREON 123A	2.062	117	216614	12.2078	PPBV		79
21) TRICHLOROFLUOROMETHANE	2.126	101	395784	11.7010	PPBV		100
22) ISOPROPYL ALCOHOL	2.139	45	290029	10.1185	PPBV		96
23) ACETONE	2.068	58	82718	10.5550	PPBV		88
24) PENTANE	2.238	42	136763	8.8100	PPBV		93
25) IODOMETHANE	2.300	142	363827	11.6910	PPBV		94
26) 1,1-DICHLOROETHYLENE	2.325	96	134360	10.4207	PPBV		93
27) CARBON DISULFIDE	2.460	76	325677	8.9021	PPBV		98
28) ETHANOL	1.930	45	64390	8.4381	PPBV		98
29) BROMOETHENE	2.004	106	128409	10.4296	PPBV		99
30) ACRYLONITRILE	2.209	52	121380	11.0143	PPBV		98
31) METHYLENE CHLORIDE	2.364	84	108091	8.5520	PPBV		93
32) 3-CHLOROPROPENE	2.402	76	58718	8.5141	PPBV		90
33) FREON 113	2.460	151	227229	11.7001	PPBV		92
34) TRANS-1,2-DICHLOROETHENE	2.685	96	132005	9.3054	PPBV		94
35) TERTIARY BUTYL ALCOHOL	2.335	59	307013	8.5731	PPBV		95
36) METHYL TERTIARY BUTYL ...	2.788	73	346556	8.5881	PPBV		99
37) TETRAHYDROFURAN	3.467	72	49893	7.6237	PPBV		89
38) HEXANE	3.238	57	269924	9.9307	PPBV		94
39) VINYL ACETATE	2.827	86	31368	8.0874	PPBV		78
40) 1,1-DICHLOROETHANE	2.759	63	271065	9.8843	PPBV		98
41) METHYL ETHYL KETONE	2.920	72	57923	7.8098	PPBV		78
42) CIS-1,2-DICHLOROETHENE	3.113	96	133301	9.0590	PPBV		92
43) DIISOPROPYL ETHER	3.242	59	75341	9.7765	PPBV		81
44) ETHYL ACETATE	3.245	61	50573	9.7073	PPBV		89
45) METHYL ACRYLATE	3.232	55	336892	10.2430	PPBV	#	99
46) CHLOROFORM	3.261	83	279014	9.8303	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	312903	10.2856	PPBV		96
48) 1,1,1-TRICHLOROETHANE	3.820	97	321139	10.7357	PPBV		98
49) CARBON TETRACHLORIDE	4.235	117	358476	11.5678	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:08:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	3.656	62	227328	10.3032	PPBV	99
51) BENZENE	4.126	78	343529	7.8900	PPBV	92
53) CYCLOHEXANE	4.328	84	155995	8.6303	PPBV	79
54) 2,3-DIMETHYLPENTANE	4.582	71	75903	8.4206	PPBV	57
55) TRICHLOROETHENE	5.013	95	184588	9.5798	PPBV	96
56) 1,2-DICHLOROPROPANE	4.782	63	162929	9.5670	PPBV	97
57) DIBROMOMETHANE	4.743	174	172308	10.4942	PPBV	93
58) ETHYL ACRYLATE	4.897	55	404570	10.6135	PPBV	99
59) BROMODICHLOROMETHANE	4.959	83	311678	10.0117	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	819048	9.8184	PPBV	99
61) 1,4-DIOXANE	5.023	88	79264	8.6905	PPBV	87
62) HEPTANE	5.415	43	248776	9.0320	PPBV	90
63) METHYL METHACRYLATE	5.312	69	130876	8.4558	PPBV	93
64) METHYL ISOBUTYL KETONE	6.036	58	155531	9.4162	PPBV	87
65) CIS-1,3-DICHLOROPROPENE	5.933	75	233970	8.9597	PPBV	99
66) TOLUENE	7.126	91	456259	9.3006	PPBV	98
67) 1,3-DICHLOROPROPANE	7.187	76	218038	8.8654	PPBV	98
68) TRANS-1,3-DICHLOROPROPENE	6.608	75	213696	9.0575	PPBV	97
69) 1,1,2-TRICHLOROETHANE	6.762	83	130795	9.3565	PPBV	93
70) 2-HEXANONE	7.688	58	188538	8.1804	PPBV	85
71) ETHYL METHACRYLATE	7.827	69	210898	8.1686	PPBV	97
72) TETRACHLOROETHENE	8.843	164	208129	11.6313	PPBV	99
73) DIBROMOCHLOROMETHANE	7.659	129	345850	12.1744	PPBV	99
74) 1,2-DIBROMOETHANE	7.997	107	271439	10.7333	PPBV	99
75) OCTANE	8.991	43	300425	8.1425	PPBV	94
77) 1,1,1,2-TETRACHLOROETHANE	10.052	131	240283	12.0894	PPBV	98
78) CHLOROBENZENE	10.042	112	411064	10.8639	PPBV	92
79) ETHYLBENZENE	10.923	91	635716	10.2531	PPBV	100
80) M,P-XYLENE	11.344	91	1009065	20.0900	PPBV	97
81) O-XYLENE	12.273	91	516198	10.5888	PPBV	97
82) STYRENE	12.064	104	385852	10.5578	PPBV	99
83) NONANE	13.402	43	325572	8.5797	PPBV	88
84) BROMOFORM	11.151	173	306852	13.1243	PPBV	98
85) 1,1,2,2-TETRACHLOROETHANE	12.289	83	328463	9.4061	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	12.569	75	270897	9.8981	PPBV	100
88) ISOPROPYLBENZENE	13.788	120	204961	11.0602	PPBV	93
89) BROMOBENZENE	13.653	77	328865	9.2401	PPBV	82
90) 2-CHLOROTOLUENE	14.781	126	189553	10.9672	PPBV	99
91) N-PROPYLBENZENE	15.125	120	214748	10.9183	PPBV	99
92) 4-ETHYLTOLUENE	15.566	105	768985	10.5646	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	15.842	105	649621	10.7236	PPBV	99
94) ALPHA-METHYLSTYRENE	16.170	118	324904	10.8144	PPBV	100
95) TERT-BUTYLBENZENE	16.495	134	158780	10.7504	PPBV	87
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	673628	11.2167	PPBV	95
97) BENZYL CHLORIDE	16.598	91	497027	10.2442	PPBV	98
98) M-DICHLOROBENZENE	16.569	146	453973	11.0026	PPBV	99
99) P-DICHLOROBENZENE	16.662	146	456398	11.2255	PPBV	99
100) O-DICHLOROBENZENE	16.984	146	432720	11.3057	PPBV	99
101) SEC-BUTYLBENZENE	16.813	134	194151	11.0392	PPBV	97
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	653955	10.8624	PPBV	99
103) P-ISOPROPYLTOLUENE	17.006	134	213271	10.9102	PPBV	85
104) N-BUTYLBENZENE	17.376	134	210642	11.3028	PPBV	95
105) HEXACHLOROETHANE	17.553	117	267030	11.6305	PPBV	99
106) HEXACHLOROBUTADIENE	18.617	225	345007	12.6747	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.305	180	430210	13.1780	PPBV	99
108) NAPHTHALENE	18.354	128	1089339	14.8749	PPBV	100
110) TVHC as equiv Pentane	2.238	TIC	693935	9.4543	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:08:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

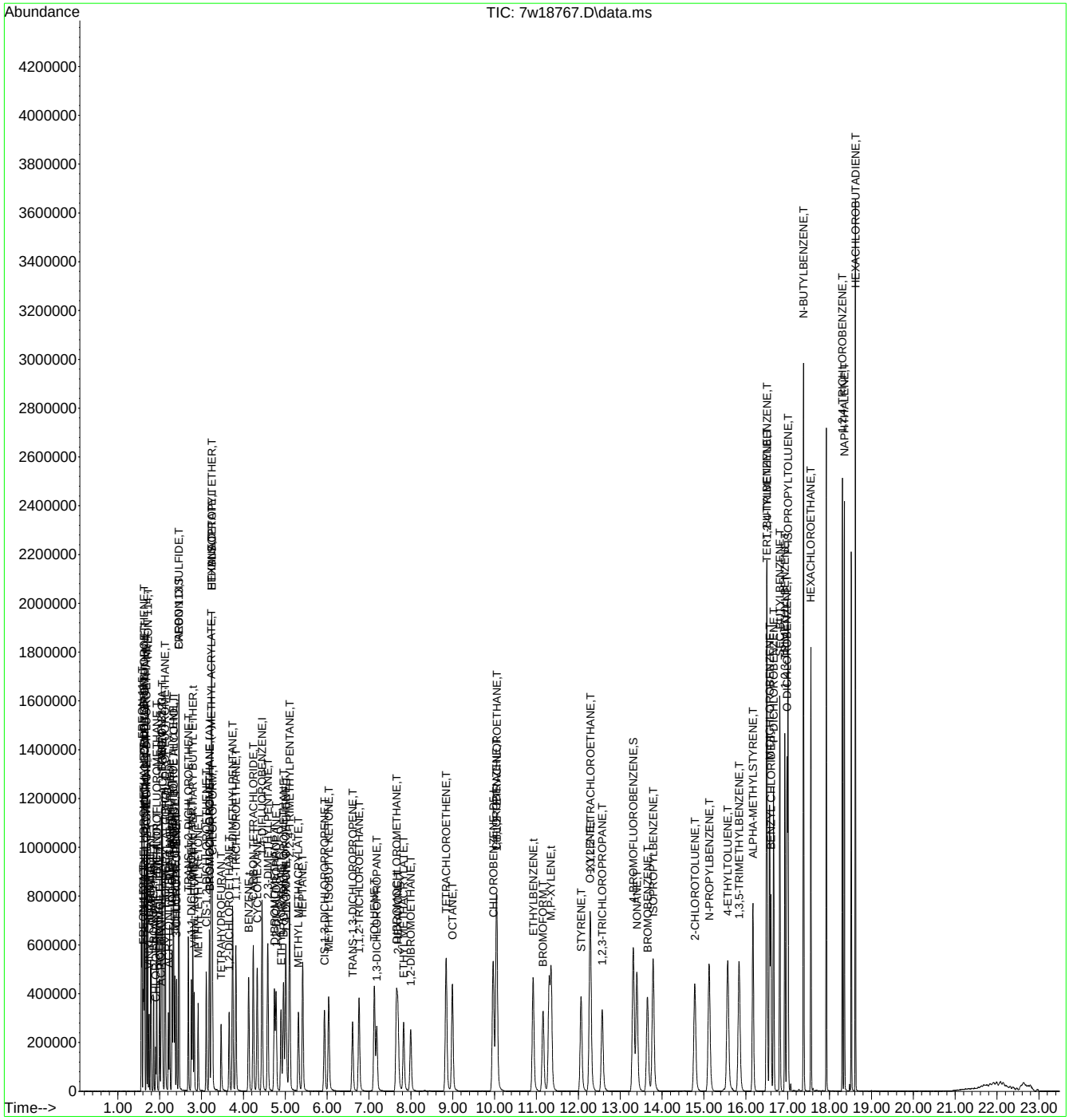
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:08:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

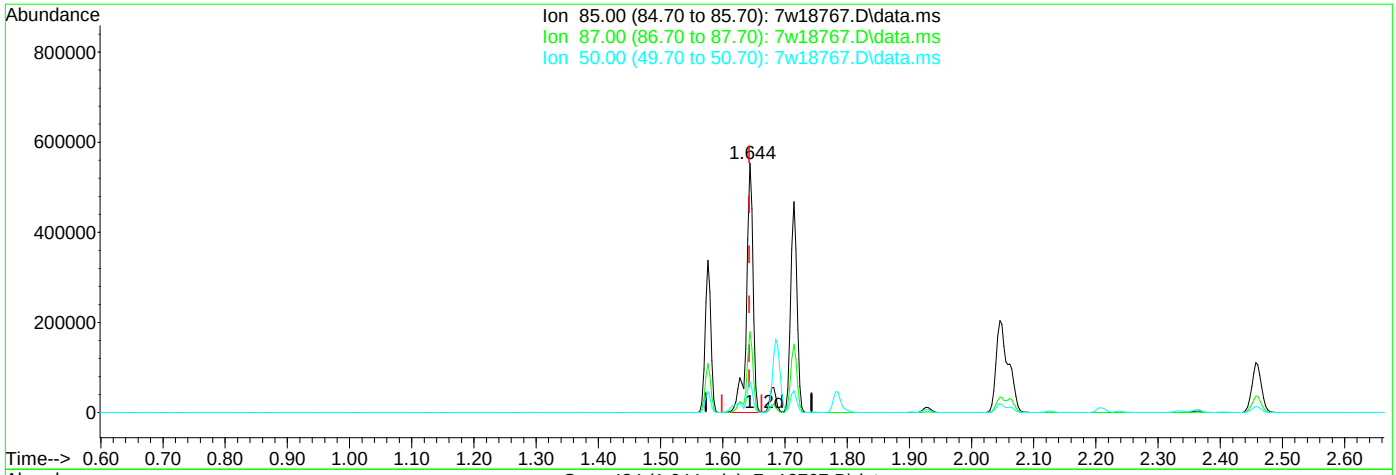
Sample Number: V7W655-BSD
Lab FileID: 7W18767.D
Injection Time: 11/24/25 11:15
Method: TO-15
Analyst approved: 11/25/25 13:16 Claire Basilio
Supervisor approved: 11/25/25 18:38 Kanya Veerawat

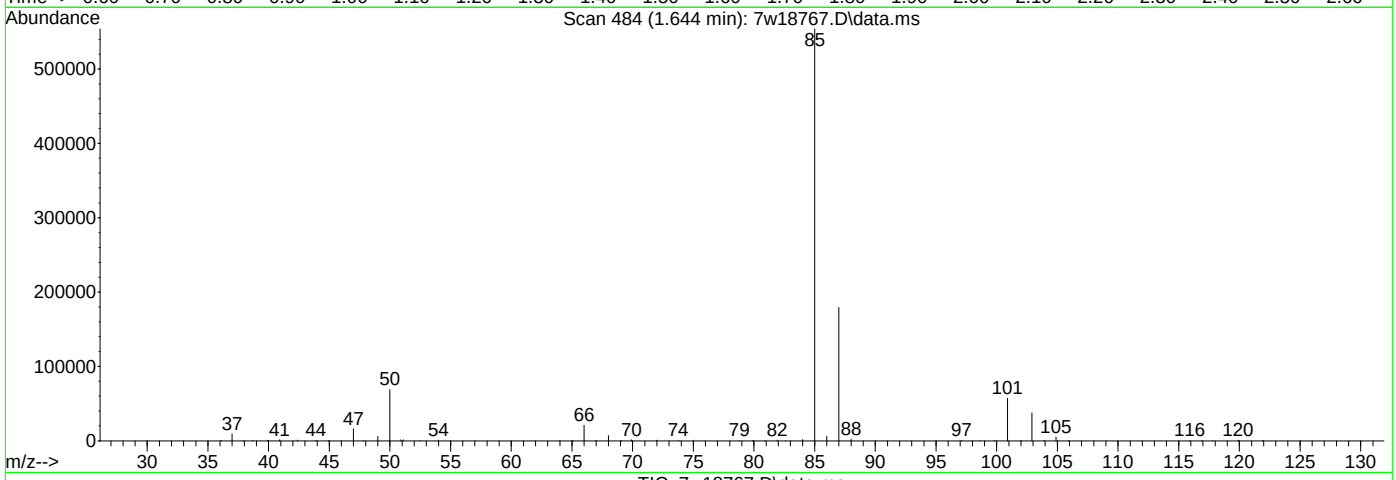
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:02:50 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18767.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.97PPBV

response 404041

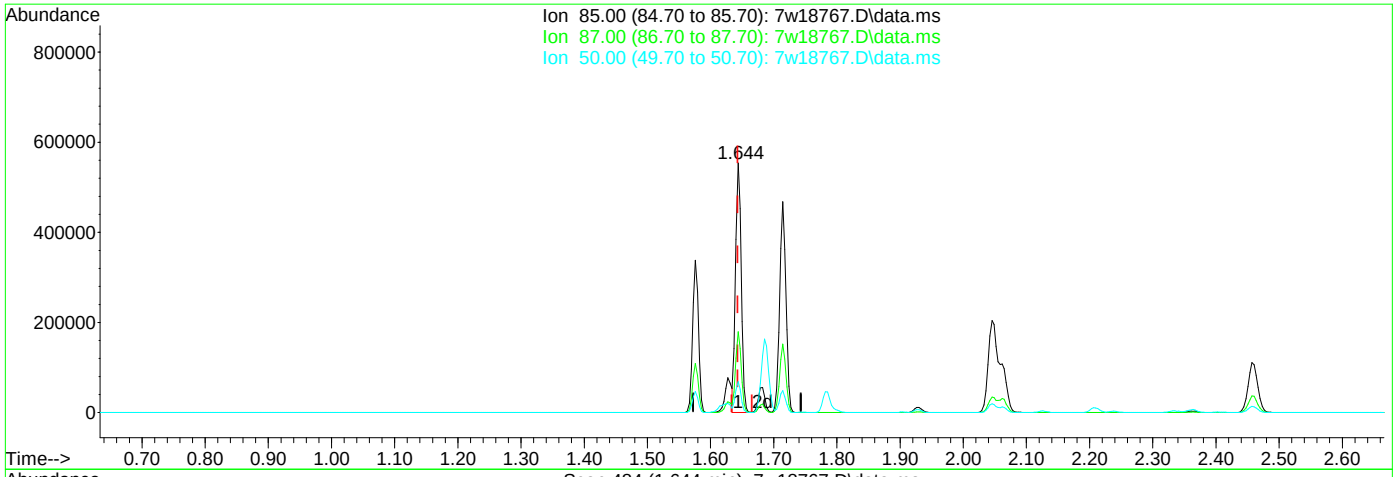
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.27
50.00	19.30	16.73
0.00	0.00	0.00

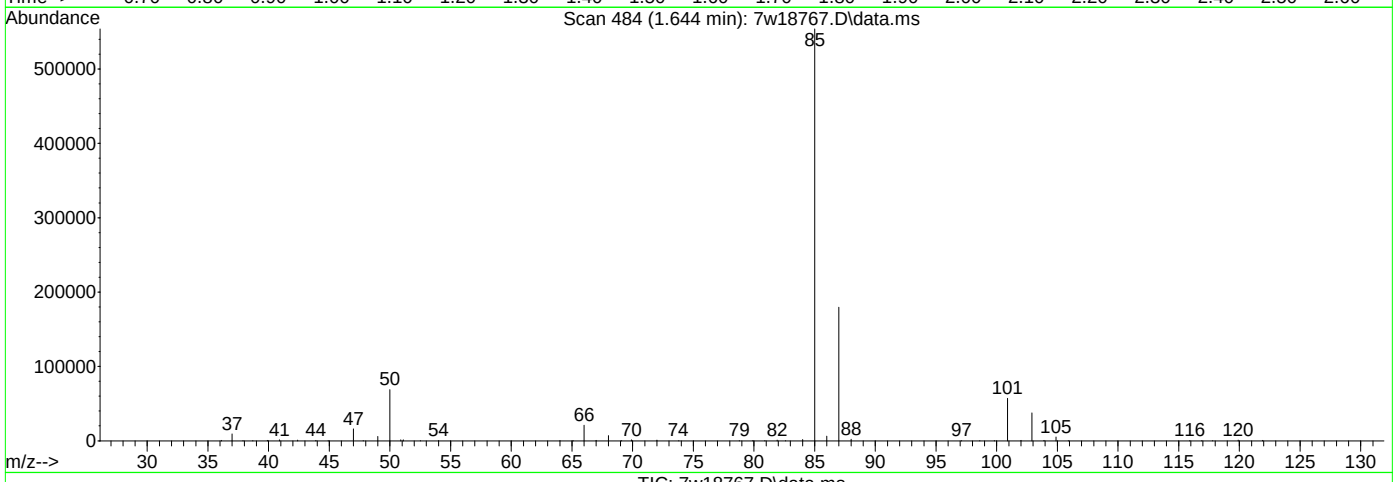
7W18767.D edits: DICHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:02:50 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18767.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 11.17PPBV m

response 347783

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.49
50.00	19.30	19.43
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	477635	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2106400	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1093252	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	477635	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1356906	9.93	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.30%				
Target Compounds							Qvalue
2) FREON 115	3.378	119	240600	7.3523	PPBV		99
3) FREON 152A	3.451	65	340897	9.6234	PPBV		96
4) CHLORODIFLUOROMETHANE	3.482	67	173657	11.7195	PPBV		97
5) CHLOROTRIFLUOROETHENE	3.512	116	869018	11.7123	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.555	85	1610737	11.7838	PPBV		98
7) PROPYLENE	3.506	41	350050	9.5479	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1227255	11.0863	PPBV		98
9) FREON 114	3.739	85	1541030	12.3325	PPBV		100
10) CHLOROMETHANE	3.671	52	145917	9.7203	PPBV		97
11) VINYL CHLORIDE	3.824	62	498599	10.7753	PPBV		100
12) 1,3-BUTADIENE	3.916	54	301164	10.8112	PPBV		99
13) n-BUTANE	3.953	43	488858	10.7389	PPBV		98
14) BROMOMETHANE	4.112	94	569388	11.5706	PPBV		100
15) CHLOROETHANE	4.234	64	221549	9.8142	PPBV		99
16) DICHLOROFLUOROMETHANE	4.295	67	1109461	11.2826	PPBV		99
17) ACETONITRILE	4.485	41	262953	10.1114	PPBV		100
18) ACROLEIN	4.577	56	156039	10.5589	PPBV		98
19) FREON 123	4.595	83	1275447	11.2118	PPBV	#	71
20) FREON 123A	4.638	117	772471	11.8230	PPBV		98
21) TRICHLOROFLUOROMETHANE	4.797	101	1369754	11.7315	PPBV		100
22) ISOPROPYL ALCOHOL	4.877	45	890471	9.5073	PPBV		99
23) ACETONE	4.681	58	190458	10.1670	PPBV		94
24) PENTANE	5.078	42	438928	9.0202	PPBV		99
25) IODOMETHANE	5.256	142	1749912	12.0245	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.323	96	543628	10.6119	PPBV		93
27) CARBON DISULFIDE	5.678	76	1448112	10.7882	PPBV		98
28) ETHANOL	4.326	45	178411	11.3698	PPBV		99
29) BROMOETHENE	4.485	106	577429	11.8977	PPBV		100
30) ACRYLONITRILE	5.048	52	316874	9.9950	PPBV		99
31) METHYLENE CHLORIDE	5.427	84	467883	9.7626	PPBV		92
32) 3-CHLOROPROPENE	5.525	76	226892	9.8346	PPBV		88
33) FREON 113	5.647	151	974773	11.4357	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	548163	10.2055	PPBV		94
35) TERTIARY BUTYL ALCOHOL	5.384	59	972270	10.1517	PPBV		99
36) METHYL TERTIARY BUTYL ...	6.479	73	1396961	10.3330	PPBV		97
37) TETRAHYDROFURAN	7.856	72	210812	11.3678	PPBV		91
38) HEXANE	7.385	57	756923	9.9262	PPBV		99
39) VINYL ACETATE	6.571	86	87754	11.3789	PPBV	#	75
40) 1,1-DICHLOROETHANE	6.424	63	953472	9.6741	PPBV		99
41) METHYL ETHYL KETONE	6.798	72	230629	12.5008	PPBV	#	84
42) cis-1,2-DICHLOROETHYLENE	7.201	96	583866	9.9734	PPBV		94
43) DIISOPROPYL ETHER	7.391	59	237718	11.8560	PPBV		94
44) ETHYL ACETATE	7.422	61	176619	12.5284	PPBV	#	1
45) METHYL ACRYLATE	7.409	55	948114	12.5543	PPBV		98
46) CHLOROFORM	7.477	83	1211542	11.4081	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.223	57	866235	10.0371	PPBV		99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1247024	11.2579	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1372682	11.4094	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	801218	10.8575	PPBV		99
52)	BENZENE	8.853	78	1557974	11.0402	PPBV		98
53)	CYCLOHEXANE	9.104	84	613975	10.8904	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.349	71	306612	10.7626	PPBV		92
55)	TRICHLOROETHYLENE	9.887	95	797832	11.0985	PPBV		100
56)	1,2-DICHLOROPROPANE	9.648	63	593320	9.0562	PPBV		99
57)	DIBROMOMETHANE	9.630	174	871066	10.8406	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	1136650	11.1015	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1381772	11.0855	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2319907	10.3884	PPBV		100
61)	1,4-DIOXANE	9.899	88	350755	10.8965	PPBV		94
62)	HEPTANE	10.181	43	766095	9.4348	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	517632	11.2549	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.792	58	471710	11.3302	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1017497	10.1371	PPBV		95
66)	TOLUENE	11.716	92	1121935	10.6362	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	902626	10.4980	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	919315	9.7025	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	631574	11.0269	PPBV		100
71)	2-HEXANONE	12.010	58	684568	11.9712	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	912136	12.0768	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	963989	12.9264	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.144	129	1579609	12.2672	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1280981	12.7862	PPBV		100
76)	OCTANE	12.738	43	1084136	10.4396	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1018658	12.4242	PPBV		99
78)	CHLOROBENZENE	13.582	112	1637921	11.9899	PPBV		100
79)	ETHYLBENZENE	13.980	91	2539898	12.1204	PPBV		100
80)	m,p-XYLENE	14.169	106	1940190	23.4941	PPBV		99
81)	o-XYLENE	14.677	106	958925	12.4007	PPBV		100
82)	STYRENE	14.567	104	1511270	12.5221	PPBV		99
83)	NONANE	14.928	43	1114955	10.6142	PPBV		97
84)	BROMOFORM	14.243	173	1714310	13.4966	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1674189	12.4499	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1150923	10.6445	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2755878	11.6391	PPBV		100
89)	BROMOBENZENE	15.375	77	1347534	10.9390	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	747013	11.3913	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	769370	12.1202	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2824547	13.0416	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2342515	11.6338	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1204069	12.1371	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	534840	13.0829	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2503827	13.3251	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1863396	12.9729	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2290925	13.2334	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1868035	12.0955	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	634126	12.2457	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2573220	12.9495	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	788089	13.4263	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1788603	12.4134	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	738576	12.8477	PPBV		99
105)	HEXACHLOROETHANE	17.607	117	1125990	11.3634	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1828537	13.6527	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1796737	13.4571	PPBV		100
108)	NAPHTHALENE	18.660	128	3954766	13.5904	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	2952896	10.2236	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

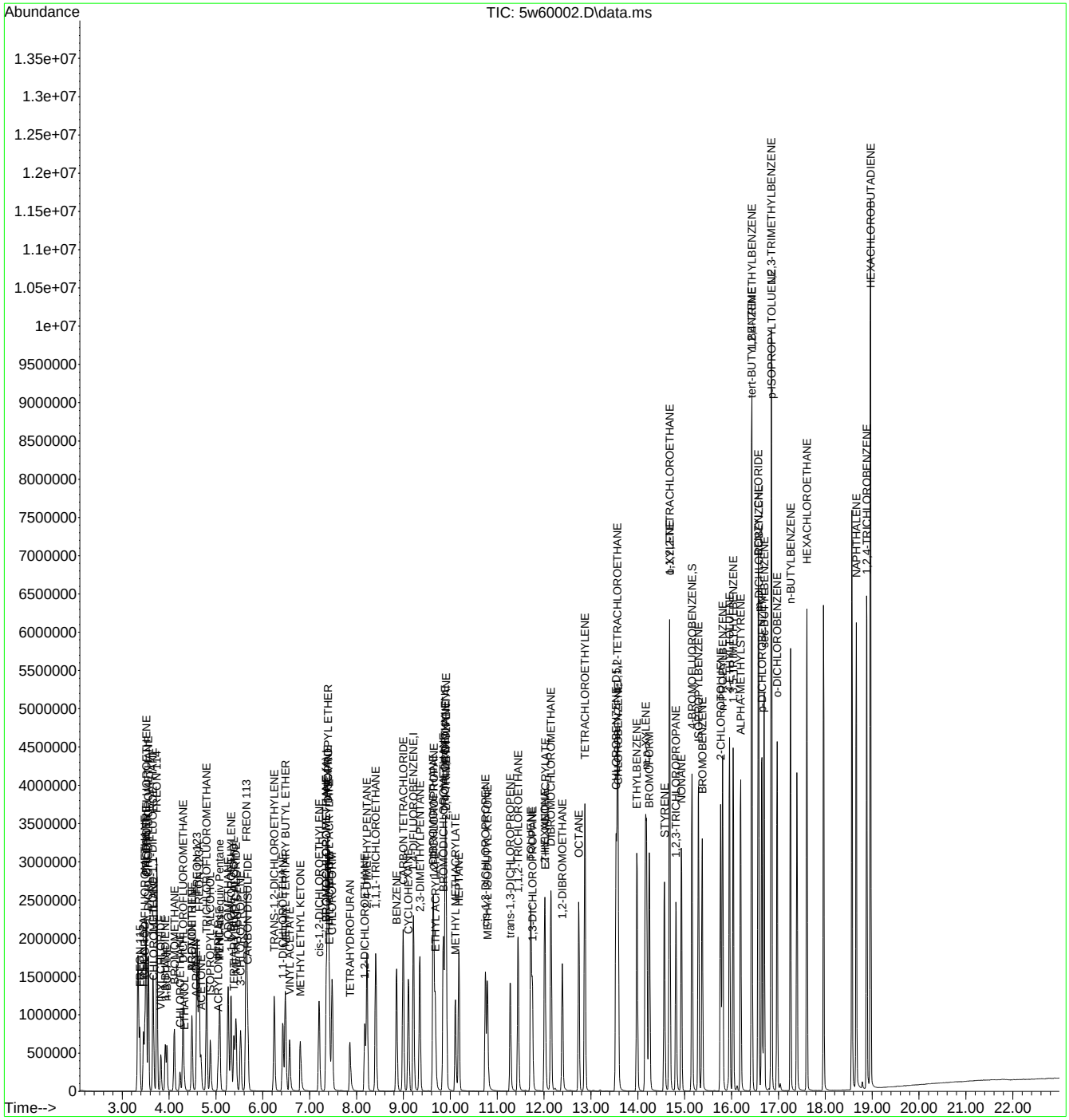
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	479179	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2114849	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1129270	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	479285	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1394712	9.88	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.80%			
Target Compounds						Qvalue
2) FREON 115	3.359	119	349972	10.6600	PPBV	100
3) FREON 152A	3.439	65	316320	8.9009	PPBV	96
4) CHLORODIFLUOROMETHANE	3.470	67	162018	10.8988	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.500	116	828169	11.1258	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.543	85	1534563	11.1904	PPBV	98
7) PROPYLENE	3.494	41	329492	8.9582	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	1195554	10.7651	PPBV	98
9) FREON 114	3.726	85	1510187	12.0467	PPBV	99
10) CHLOROMETHANE	3.659	52	144738	9.6107	PPBV	99
11) VINYL CHLORIDE	3.812	62	495530	10.6745	PPBV	99
12) 1,3-BUTADIENE	3.904	54	292494	10.4661	PPBV	98
13) n-BUTANE	3.941	43	458598	10.0417	PPBV	98
14) BROMOMETHANE	4.100	94	567948	11.5041	PPBV	99
15) CHLOROETHANE	4.216	64	222236	9.8129	PPBV	98
16) DICHLOROFLUOROMETHANE	4.283	67	1068372	10.8297	PPBV	99
17) ACETONITRILE	4.473	41	251312	9.6326	PPBV	99
18) ACROLEIN	4.565	56	155502	10.4886	PPBV	98
19) FREON 123	4.583	83	1272619	11.1509	PPBV	71
20) FREON 123A	4.626	117	764670	11.6659	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.785	101	1500156	12.8070	PPBV	100
22) ISOPROPYL ALCOHOL	4.864	45	862773	9.1819	PPBV	98
23) ACETONE	4.669	58	186096	9.9021	PPBV	94
24) PENTANE	5.066	42	428867	8.7850	PPBV	99
25) IODOMETHANE	5.250	142	1697179	11.6246	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.311	96	525383	10.2227	PPBV	93
27) CARBON DISULFIDE	5.666	76	1428932	10.6111	PPBV	98
28) ETHANOL	4.314	45	168540	10.7061	PPBV	99
29) BROMOETHENE	4.473	106	568162	11.6690	PPBV	100
30) ACRYLONITRILE	5.036	52	305406	9.6023	PPBV	99
31) METHYLENE CHLORIDE	5.415	84	455621	9.4761	PPBV	92
32) 3-CHLOROPROPENE	5.513	76	224082	9.6815	PPBV	87
33) FREON 113	5.635	151	976601	11.4203	PPBV	96
34) TRANS-1,2-DICHLOROETHY...	6.235	96	544122	10.0977	PPBV	92
35) TERTIARY BUTYL ALCOHOL	5.372	59	930895	9.6884	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1388096	10.2344	PPBV	97
37) TETRAHYDROFURAN	7.850	72	205030	11.0204	PPBV	90
38) HEXANE	7.379	57	739090	9.6611	PPBV	99
39) VINYL ACETATE	6.559	86	87525	11.3126	PPBV #	70
40) 1,1-DICHLOROETHANE	6.418	63	946262	9.5700	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	225201	12.1673	PPBV #	82
42) cis-1,2-DICHLOROETHYLENE	7.195	96	583002	9.9265	PPBV	94
43) DIISOPROPYL ETHER	7.385	59	234562	11.6609	PPBV	94
44) ETHYL ACETATE	7.415	61	171373	12.1171	PPBV #	1
45) METHYL ACRYLATE	7.403	55	931131	12.2897	PPBV	98
46) CHLOROFORM	7.471	83	1190185	11.1709	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.217	57	848788	9.8032	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.407	97	1227800	11.0486	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.988	117	1379991	11.4332	PPBV		100
50)	1,2-DICHLOROETHANE	8.168	62	792023	10.6983	PPBV		100
52)	BENZENE	8.847	78	1523228	10.7509	PPBV		99
53)	CYCLOHEXANE	9.104	84	604407	10.6779	PPBV		92
54)	2,3-DIMETHYLPENTANE	9.343	71	304244	10.6368	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	800597	11.0925	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	596490	9.0682	PPBV		99
57)	DIBROMOMETHANE	9.630	174	889311	11.0234	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1144267	11.1312	PPBV		99
59)	BROMODICHLOROMETHANE	9.844	83	1392832	11.1295	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.905	57	2373633	10.5865	PPBV		100
61)	1,4-DIOXANE	9.893	88	356621	11.0344	PPBV	#	75
62)	HEPTANE	10.181	43	763072	9.3600	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	518879	11.2369	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	478608	11.4499	PPBV		96
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1029199	10.2127	PPBV		95
66)	TOLUENE	11.716	92	1141793	10.7812	PPBV		99
67)	1,3-DICHLOROPROPANE	11.747	76	915403	10.6041	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	914117	9.6091	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.441	83	642885	11.1796	PPBV		99
71)	2-HEXANONE	12.010	58	687139	11.6329	PPBV		98
72)	ETHYL METHACRYLATE	12.022	69	924260	11.8470	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	965929	12.5393	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.144	129	1569979	11.8035	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1268536	12.2581	PPBV		99
76)	OCTANE	12.738	43	1078013	10.0496	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1040956	12.2912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1676579	11.8814	PPBV		99
79)	ETHYLBENZENE	13.980	91	2558019	11.8175	PPBV		100
80)	m,p-XYLENE	14.169	106	1994813	23.3851	PPBV		99
81)	o-XYLENE	14.677	106	961640	12.0392	PPBV		100
82)	STYRENE	14.567	104	1523708	12.2225	PPBV		99
83)	NONANE	14.928	43	1112505	10.2531	PPBV		98
84)	BROMOFORM	14.249	173	1725817	13.1538	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1686640	12.1424	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1146826	10.2683	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2846838	11.6398	PPBV		100
89)	BROMOBENZENE	15.375	77	1373208	10.7919	PPBV		97
90)	2-CHLOROTOLUENE	15.766	126	767010	11.3232	PPBV		99
91)	n-PROPYLBENZENE	15.809	120	793940	12.1083	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2873727	12.8454	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2364619	11.3690	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1214522	11.8520	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	529036	12.5282	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2518685	12.9767	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1900758	12.8109	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	2352253	13.1542	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1890803	11.8524	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	651887	12.1872	PPBV		98
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2595477	12.6449	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	801855	13.2251	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1781932	11.9726	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	733212	12.3476	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	1190740	11.6336	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1877270	13.5695	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1809449	13.1201	PPBV		100
108)	NAPHTHALENE	18.660	128	4030657	13.4094	PPBV		100
110)	TVHC as equiv Pentane	5.066	TIC	2846840	9.8225	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

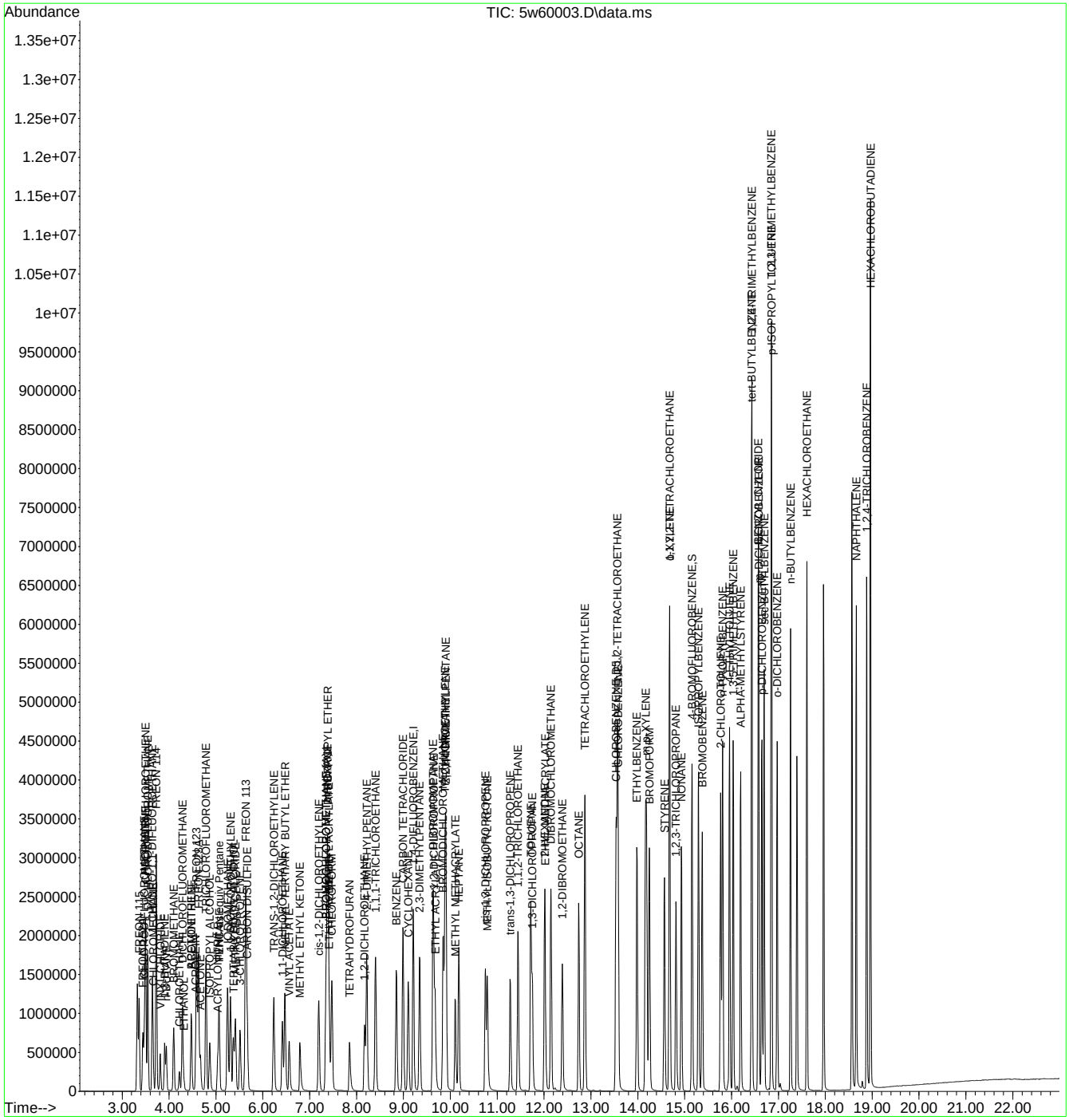
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	117537	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	576557	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	537853	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	117431	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	424524	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	166464	11.6748	PPBV		98
3) FREON 152A	1.605	65	78132	10.6216	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	34082	10.6722	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	177991	11.5833	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	301836m	10.7228	PPBV		
7) PROPYLENE	1.627	41	94847	9.9623	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	251622	10.0470	PPBV		99
9) FREON 114	1.717	85	293840	10.1272	PPBV		98
10) CHLOROMETHANE	1.689	52	33784	8.3689	PPBV		98
11) VINYL CHLORIDE	1.746	62	120764m	8.4483	PPBV		
12) 1,3-BUTADIENE	1.785	54	95122	8.4248	PPBV		99
13) N-BUTANE	1.801	43	167061	8.7444	PPBV		99
14) BROMOMETHANE	1.859	94	106278	9.5883	PPBV		100
15) CHLOROETHANE	1.907	64	66166	8.5278	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	249903	9.3010	PPBV		100
17) ACETONITRILE	1.997	41	94569	7.0834	PPBV		100
18) ACROLEIN	2.036	56	54010	8.5161	PPBV		99
19) FREON 123	2.049	83	274608	10.1439	PPBV		99
20) FREON 123A	2.068	117	172350	10.7466	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	314396	10.2837	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	232486	8.9738	PPBV		96
23) ACETONE	2.074	58	62370	8.8053	PPBV		96
24) PENTANE	2.242	42	120801	8.6097	PPBV		97
25) IODOMETHANE	2.303	142	308750	10.9767	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	116988	10.0387	PPBV		91
27) CARBON DISULFIDE	2.467	76	301097	9.1059	PPBV		98
28) ETHANOL	1.933	45	60214	8.7304	PPBV		99
29) BROMOETHENE	2.007	106	110839	9.9603	PPBV		100
30) ACRYLONITRILE	2.213	52	91814	9.2178	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	103212	9.0347	PPBV		89
32) 3-CHLOROPROPENE	2.409	76	54741	8.7819	PPBV		93
33) FREON 113	2.463	151	196110	11.1721	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	113209	8.8294	PPBV		92
35) TERTIARY BUTYL ALCOHOL	2.341	59	232200	7.1738	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.795	73	349229	9.5751	PPBV		99
37) TETRAHYDROFURAN	3.470	72	56702	9.5859	PPBV		93
38) HEXANE	3.242	57	233347	9.4984	PPBV		99
39) VINYL ACETATE	2.830	86	34231	9.7646	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	234708	9.4691	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	64142	9.5684	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	134876	10.1412	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	65603	9.4186	PPBV		95
44) ETHYL ACETATE	3.251	61	45389	9.6391	PPBV		99
45) METHYL ACRYLATE	3.238	55	284596	9.5736	PPBV	#	100
46) CHLOROFORM	3.264	83	265353	10.3437	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	270843	9.8502	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279613	10.3419	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	300115	10.7149	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.663	62	187132	9.3837	PPBV		98
51) BENZENE	4.129	78	385720	9.8016	PPBV		98
53) CYCLOHEXANE	4.335	84	174716	10.3579	PPBV		97
54) 2,3-DIMETHYLPENTANE	4.586	71	88179	10.4827	PPBV		97
55) TRICHLOROETHENE	5.016	95	179264	9.9695	PPBV		98
56) 1,2-DICHLOROPROPANE	4.785	63	156598	9.8534	PPBV		98
57) DIBROMOMETHANE	4.746	174	193825	12.6496	PPBV		82
58) ETHYL ACRYLATE	4.901	55	350540	9.8543	PPBV		99
59) BROMODICHLOROMETHANE	4.962	83	297958	10.2561	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.106	57	729930	9.3764	PPBV		100
61) 1,4-DIOXANE	5.029	88	88045	10.3442	PPBV		96
62) HEPTANE	5.418	43	246005	9.5707	PPBV		98
63) METHYL METHACRYLATE	5.319	69	143934	9.9651	PPBV		94
64) METHYL ISOBUTYL KETONE	6.042	58	136749	8.8717	PPBV		98
65) CIS-1,3-DICHLOROPROPENE	5.939	75	247041	10.1375	PPBV		96
66) TOLUENE	7.132	91	482354	10.5364	PPBV		99
67) 1,3-DICHLOROPROPANE	7.190	76	245416	10.6929	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	6.608	75	214544	9.7443	PPBV		96
69) 1,1,2-TRICHLOROETHANE	6.766	83	140276	10.7531	PPBV		97
70) 2-HEXANONE	7.695	58	183274	8.5213	PPBV		98
71) ETHYL METHACRYLATE	7.833	69	246125	10.2154	PPBV		95
72) TETRACHLOROETHENE	8.849	164	215940	12.9316	PPBV		87
73) DIBROMOCHLOROMETHANE	7.659	129	310840	11.7252	PPBV		99
74) 1,2-DIBROMOETHANE	8.000	107	266221	11.2805	PPBV	#	99
75) OCTANE	8.997	43	341515	9.9187	PPBV		98
77) 1,1,1,2-TETRACHLOROETHANE	10.058	131	213785	11.0766	PPBV		98
78) CHLOROBENZENE	10.045	112	396327	10.7864	PPBV		99
79) ETHYLBENZENE	10.926	91	655869	10.8932	PPBV		100
80) M,P-XYLENE	11.351	91	1023644	20.9873	PPBV		97
81) O-XYLENE	12.280	91	519895	10.9823	PPBV		99
82) STYRENE	12.068	104	395063	11.1318	PPBV		100
83) NONANE	13.399	43	360332	9.7785	PPBV		98
84) BROMOFORM	11.161	173	350108	15.4204	PPBV		97
85) 1,1,2,2-TETRACHLOROETHANE	12.296	83	367207	10.8288	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	12.576	75	288503	10.8553	PPBV		100
88) ISOPROPYLBENZENE	13.791	120	195144	10.8441	PPBV		98
89) BROMOBENZENE	13.656	77	359353	10.3975	PPBV		87
90) 2-CHLOROTOLUENE	14.788	126	178666	10.6452	PPBV		100
91) N-PROPYLBENZENE	15.129	120	203706	10.6654	PPBV		100
92) 4-ETHYLTOLUENE	15.569	105	763752	10.8053	PPBV		98
93) 1,3,5-TRIMETHYLBENZENE	15.846	105	637092	10.8300	PPBV		99
94) ALPHA-METHYLSTYRENE	16.170	118	310988	10.6596	PPBV		99
95) TERT-BUTYLBENZENE	16.498	134	146662	10.2257	PPBV		90
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	648383	11.1180	PPBV		100
97) BENZYL CHLORIDE	16.598	91	467740	9.9277	PPBV		99
98) M-DICHLOROBENZENE	16.569	146	423012	10.5575	PPBV		97
99) P-DICHLOROBENZENE	16.662	146	425526	10.7779	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	395575	10.6431	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	177791	10.4101	PPBV		91
102) 1,2,3-TRIMETHYLBENZENE	16.936	105	621853	10.6368	PPBV		100
103) P-ISOPROPYLTOLUENE	17.013	134	195199	10.2831	PPBV		88
104) N-BUTYLBENZENE	17.379	134	192735	10.6499	PPBV		93
105) HEXACHLOROETHANE	17.559	117	257445	11.5470	PPBV	#	84
106) HEXACHLOROBUTADIENE	18.630	225	500479	18.9339	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.315	180	517111	16.3117	PPBV		97
108) NAPHTHALENE	18.363	128	993777	13.9741	PPBV		99
110) TVHC as equiv Pentane	2.242	TIC	579819	8.7479	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

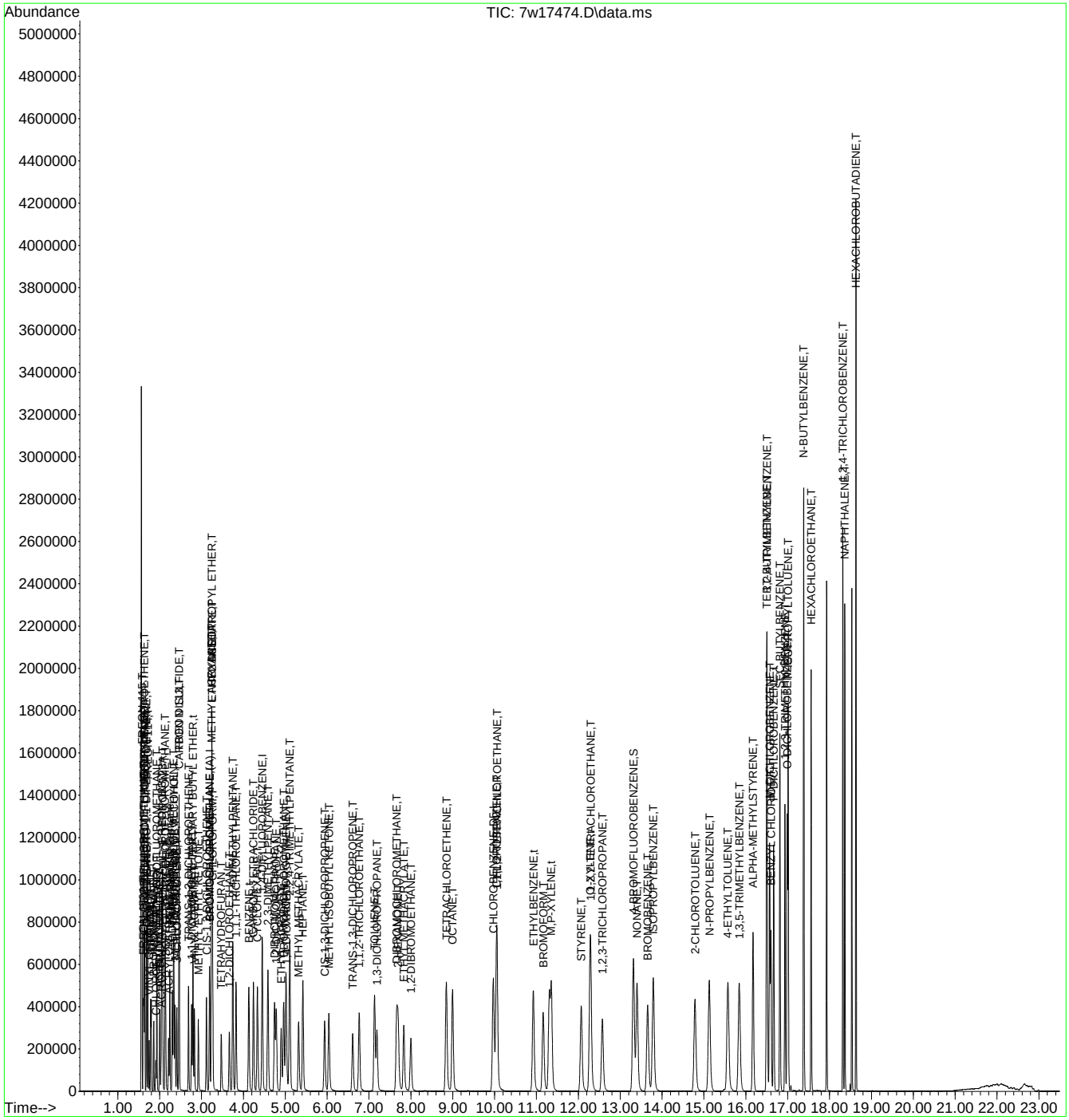
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

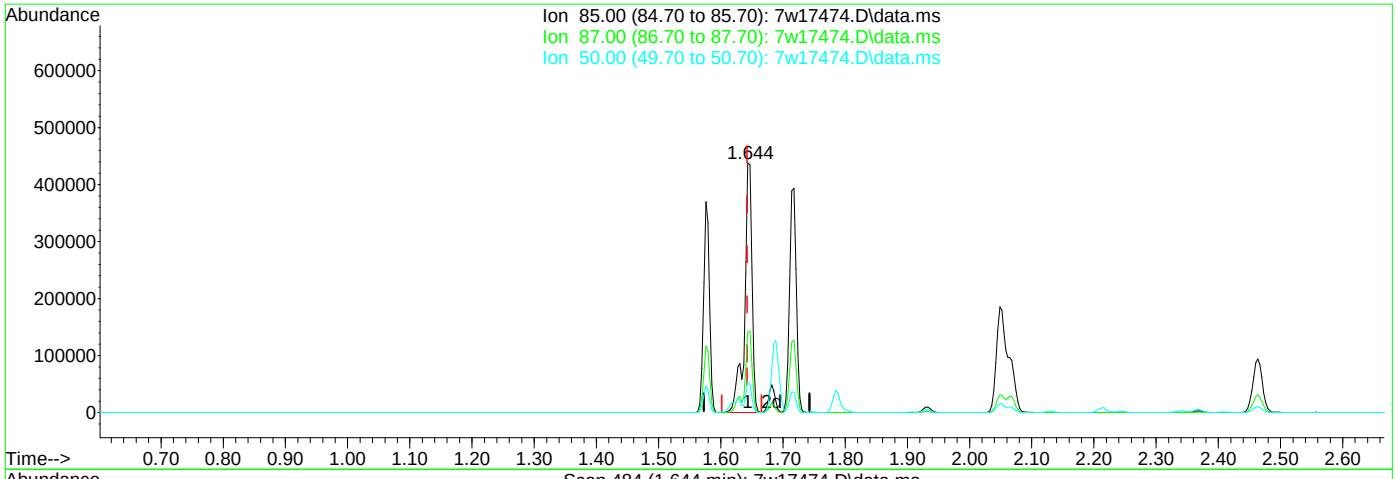
Sample Number: V7W613-BS
Lab FileID: 7W17474.D
Injection Time: 09/26/25 11:54
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

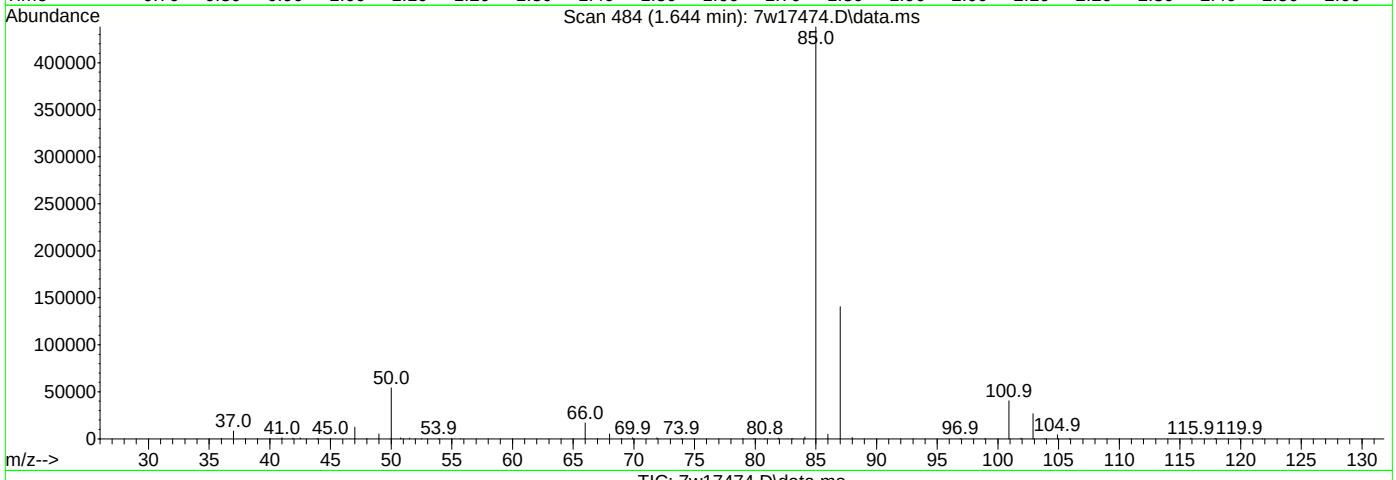
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.85PPBV

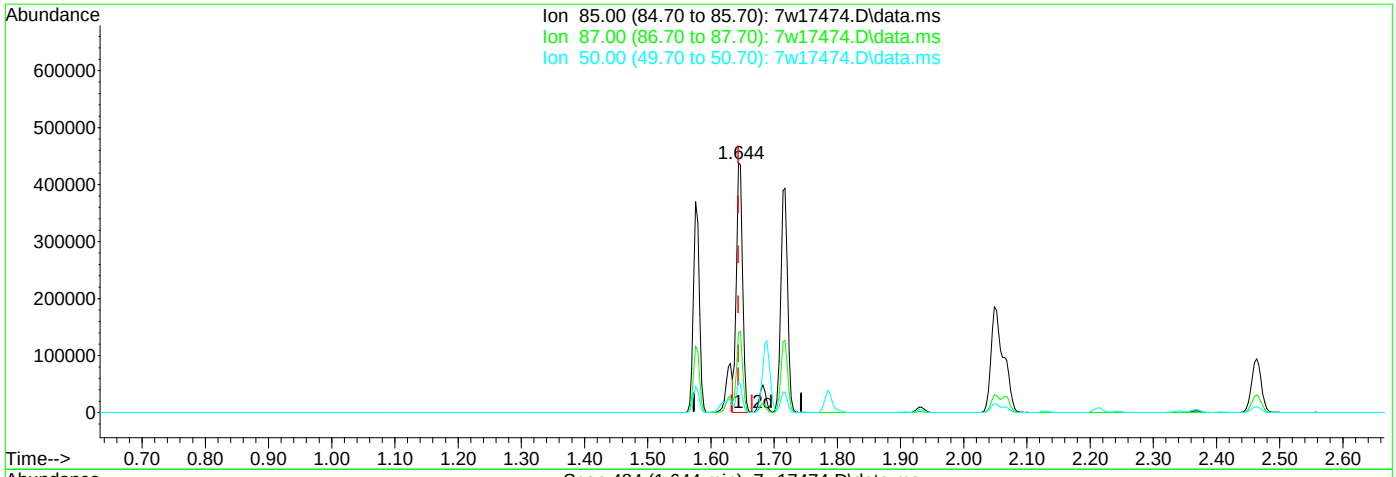
response 361845

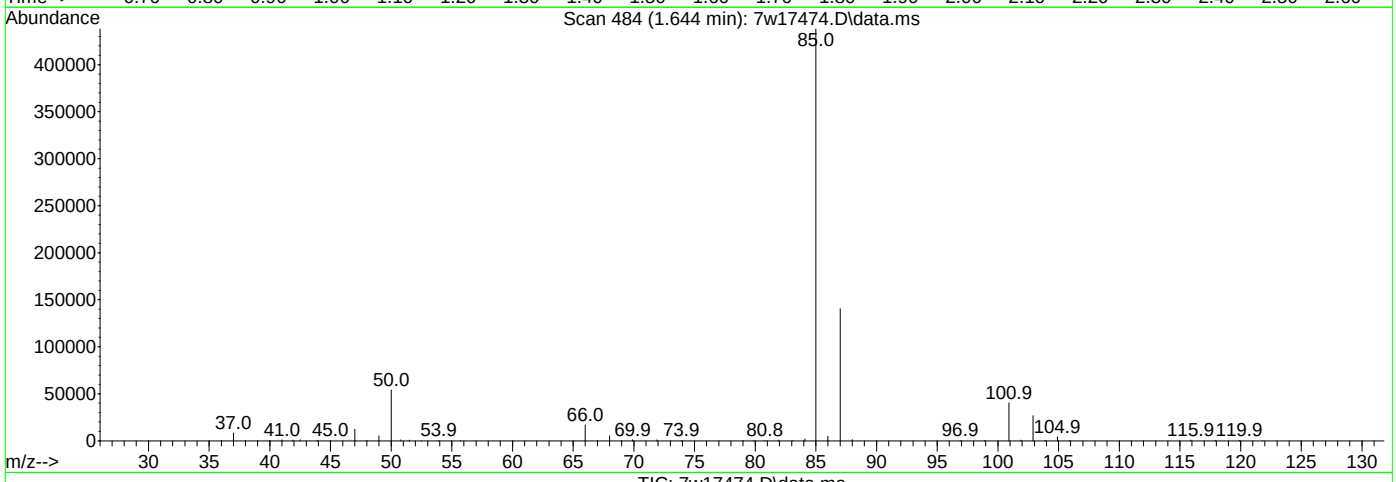
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.38
50.00	19.30	17.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.72PPBV m

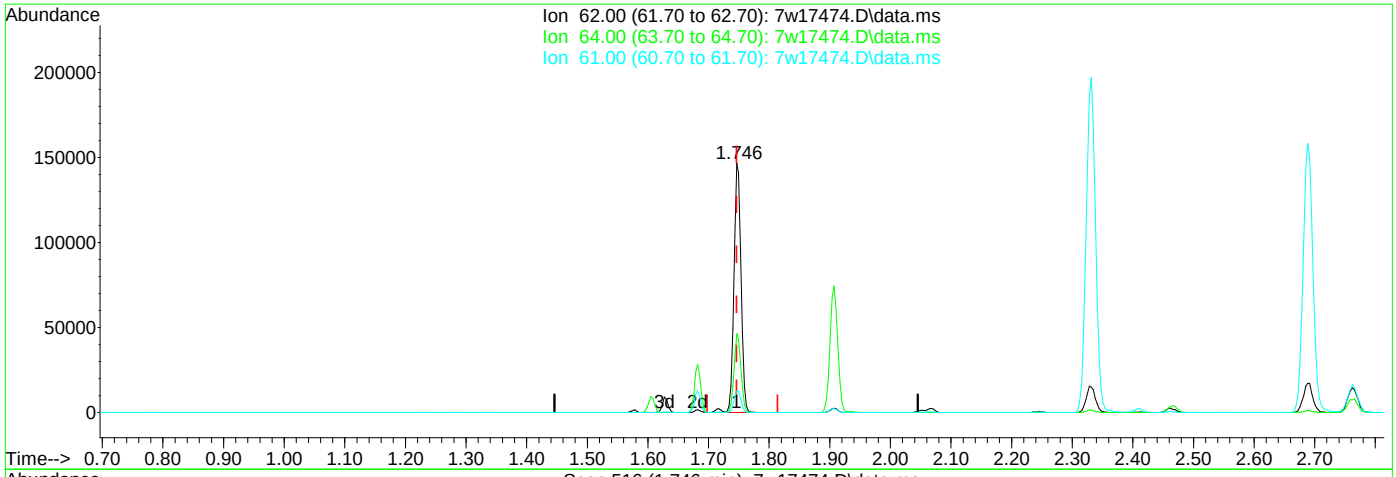
response 301836

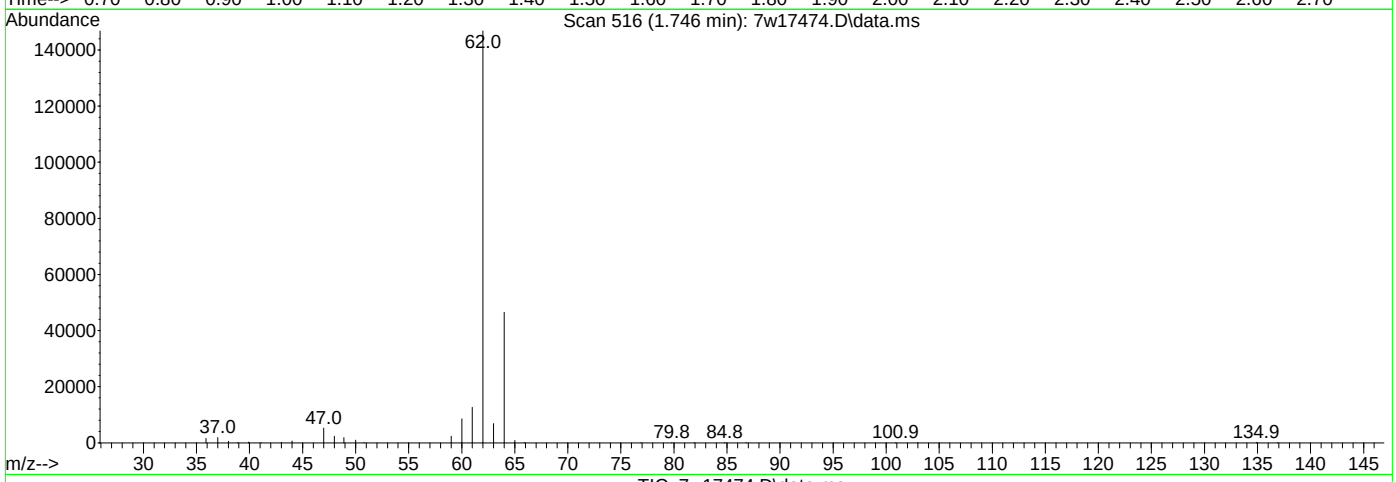
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.81
50.00	19.30	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.57PPBV

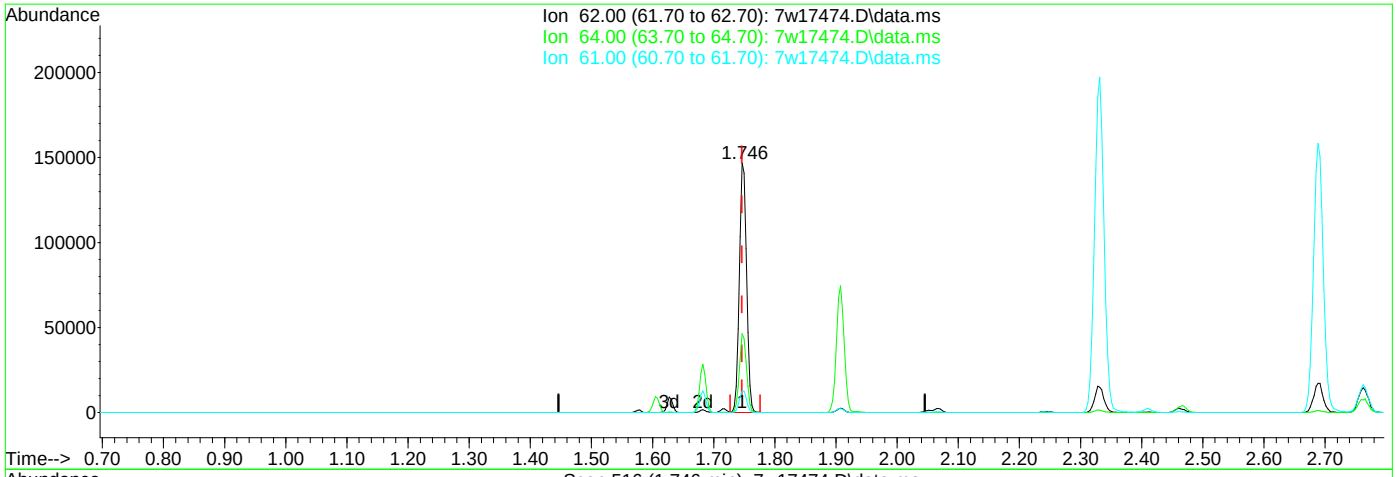
response 122511

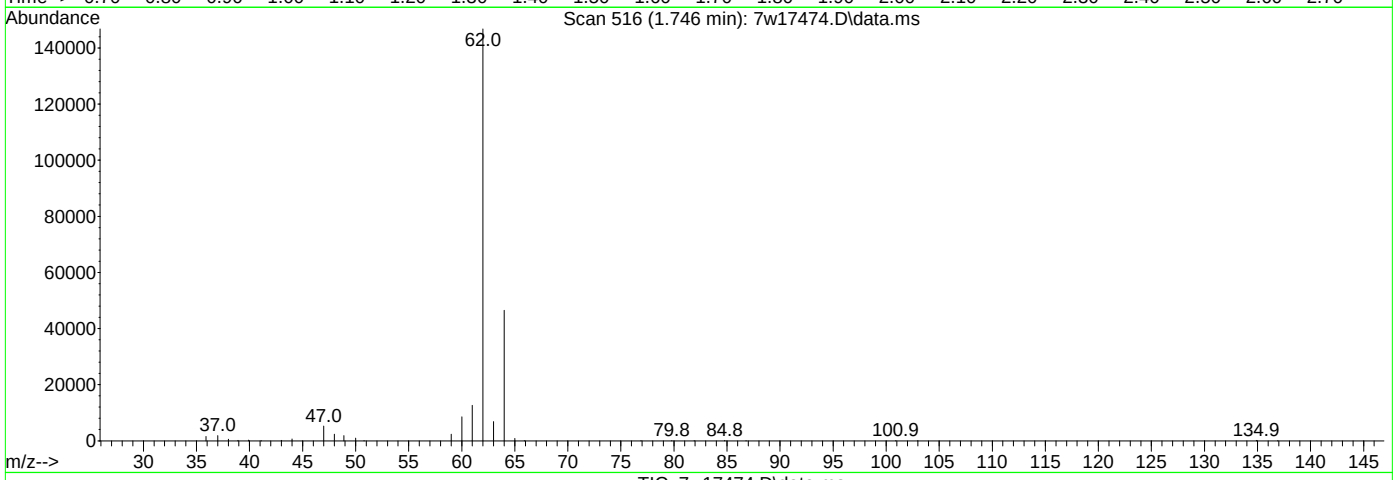
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	30.89
61.00	8.10	8.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.45PPBV m

response 120764

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.33
61.00	8.10	9.03
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.194	128	119187	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	585415	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	537645	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.194	128	119187	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	430611	9.95	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	161488	11.1690	PPBV		98
3) FREON 152A	1.605	65	75759	10.1564	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	33425	10.3216	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.628	116	174440	11.1950	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	291674m	10.2183	PPBV		
7) PROPYLENE	1.628	41	92093	9.5391	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.683	65	249388	9.8200	PPBV		98
9) FREON 114	1.715	85	289184	9.8288	PPBV		99
10) CHLOROMETHANE	1.686	52	33293	8.1331	PPBV		96
11) VINYL CHLORIDE	1.747	62	119109m	8.2172	PPBV		
12) 1,3-BUTADIENE	1.785	54	92631	8.0906	PPBV		97
13) N-BUTANE	1.801	43	164144	8.4728	PPBV		99
14) BROMOMETHANE	1.859	94	104635	9.3094	PPBV		100
15) CHLOROETHANE	1.908	64	65277	8.2967	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.930	67	246489	9.0469	PPBV		100
17) ACETONITRILE	1.998	41	92543	6.8357	PPBV		99
18) ACROLEIN	2.036	56	52535	8.1689	PPBV		96
19) FREON 123	2.049	83	272708	9.9342	PPBV		99
20) FREON 123A	2.065	117	170374	10.4763	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	311447	10.0462	PPBV		100
22) ISOPROPYL ALCOHOL	2.146	45	230027	8.7560	PPBV		97
23) ACETONE	2.075	58	61137	8.5117	PPBV		92
24) PENTANE	2.242	42	118430	8.3239	PPBV		97
25) IODOMETHANE	2.303	142	303085	10.6261	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	115657	9.7871	PPBV		90
27) CARBON DISULFIDE	2.467	76	301432m	8.9898	PPBV		
28) ETHANOL	1.933	45	59051	8.4432	PPBV		99
29) BROMOETHENE	2.007	106	109124	9.6704	PPBV		100
30) ACRYLONITRILE	2.213	52	91360	9.0453	PPBV		97
31) METHYLENE CHLORIDE	2.367	84	102065	8.8106	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	54180	8.5716	PPBV		94
33) FREON 113	2.464	151	195458	10.9808	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	111522	8.5775	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.342	59	233489	7.1138	PPBV		92
36) METHYL TERTIARY BUTYL ...	2.795	73	345519	9.3422	PPBV		99
37) TETRAHYDROFURAN	3.473	72	55023	9.1733	PPBV		95
38) HEXANE	3.242	57	229499	9.2124	PPBV		98
39) VINYL ACETATE	2.830	86	34282	9.6437	PPBV		86
40) 1,1-DICHLOROETHANE	2.763	63	229340	9.1245	PPBV		99
41) METHYL ETHYL KETONE	2.924	72	63545	9.3481	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.117	96	132692	9.8389	PPBV		95
43) DIISOPROPYL ETHER	3.248	59	63868	9.0426	PPBV		99
44) ETHYL ACETATE	3.248	61	45705	9.5719	PPBV		94
45) METHYL ACRYLATE	3.239	55	278453	9.2373	PPBV	#	100
46) CHLOROFORM	3.264	83	261849	10.0658	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.747	57	269368	9.6609	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	276376	10.0807	PPBV		97
49) CARBON TETRACHLORIDE	4.242	117	298654	10.5152	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	186432	9.2192	PPBV		98
51)	BENZENE	4.129	78	383912	9.6206	PPBV		97
53)	CYCLOHEXANE	4.335	84	173211	10.1133	PPBV		96
54)	2,3-DIMETHYLPENTANE	4.586	71	88496	10.3612	PPBV		94
55)	TRICHLOROETHENE	5.020	95	177169	9.7039	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	154800	9.5929	PPBV		99
57)	DIBROMOMETHANE	4.747	174	192245	12.3567	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	347251	9.6141	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	296513	10.0519	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.107	57	724228	9.1624	PPBV		100
61)	1,4-DIOXANE	5.026	88	86594	10.0198	PPBV		98
62)	HEPTANE	5.422	43	242237	9.2815	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	142858	9.7409	PPBV		93
64)	METHYL ISOBUTYL KETONE	6.039	58	138357	8.8402	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.940	75	245439	9.9193	PPBV		96
66)	TOLUENE	7.132	91	479641	10.3186	PPBV		99
67)	1,3-DICHLOROPROPANE	7.190	76	243826	10.4629	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	212620	9.5108	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.769	83	139676	10.5451	PPBV		99
70)	2-HEXANONE	7.695	58	183154	8.3868	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	244235	9.9836	PPBV		95
72)	TETRACHLOROETHENE	8.846	164	214993	12.6801	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	308974	11.4785	PPBV		99
74)	1,2-DIBROMOETHANE	8.001	107	264374	11.0327	PPBV	#	99
75)	OCTANE	8.997	43	340227	9.7318	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	213802	11.0818	PPBV		98
78)	CHLOROBENZENE	10.046	112	392719	10.6923	PPBV		99
79)	ETHYLBENZENE	10.923	91	651683	10.8278	PPBV		100
80)	M,P-XYLENE	11.351	91	1010310	20.7219	PPBV		100
81)	O-XYLENE	12.280	91	515533	10.8943	PPBV		99
82)	STYRENE	12.068	104	395209	11.1402	PPBV		100
83)	NONANE	13.402	43	357848	9.7149	PPBV		98
84)	BROMOFORM	11.158	173	342855	15.1068	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	361121	10.6535	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.576	75	285430	10.7439	PPBV	#	100
88)	ISOPROPYLBENZENE	13.788	120	191225	10.6304	PPBV		99
89)	BROMOBENZENE	13.653	77	356600	10.3218	PPBV		88
90)	2-CHLOROTOLUENE	14.785	126	177031	10.5518	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	202037	10.5821	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	756559	10.7077	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.843	105	633103	10.7664	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.171	118	305574	10.4780	PPBV		99
95)	TERT-BUTYLBENZENE	16.499	134	146423	10.2130	PPBV		91
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	646508	11.0901	PPBV		100
97)	BENZYL CHLORIDE	16.602	91	458275	9.7306	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	418818	10.4569	PPBV		97
99)	P-DICHLOROBENZENE	16.663	146	428379	10.8544	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	393831	10.6003	PPBV		97
101)	SEC-BUTYLBENZENE	16.814	134	177863	10.4183	PPBV		92
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	620374	10.6156	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.010	134	193374	10.1909	PPBV		89
104)	N-BUTYLBENZENE	17.380	134	191374	10.5788	PPBV		94
105)	HEXACHLOROETHANE	17.560	117	252934	11.3491	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.630	225	499473	18.9032	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.315	180	516000	16.2830	PPBV		97
108)	NAPHTHALENE	18.363	128	991089	13.9417	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	565634	8.4081	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

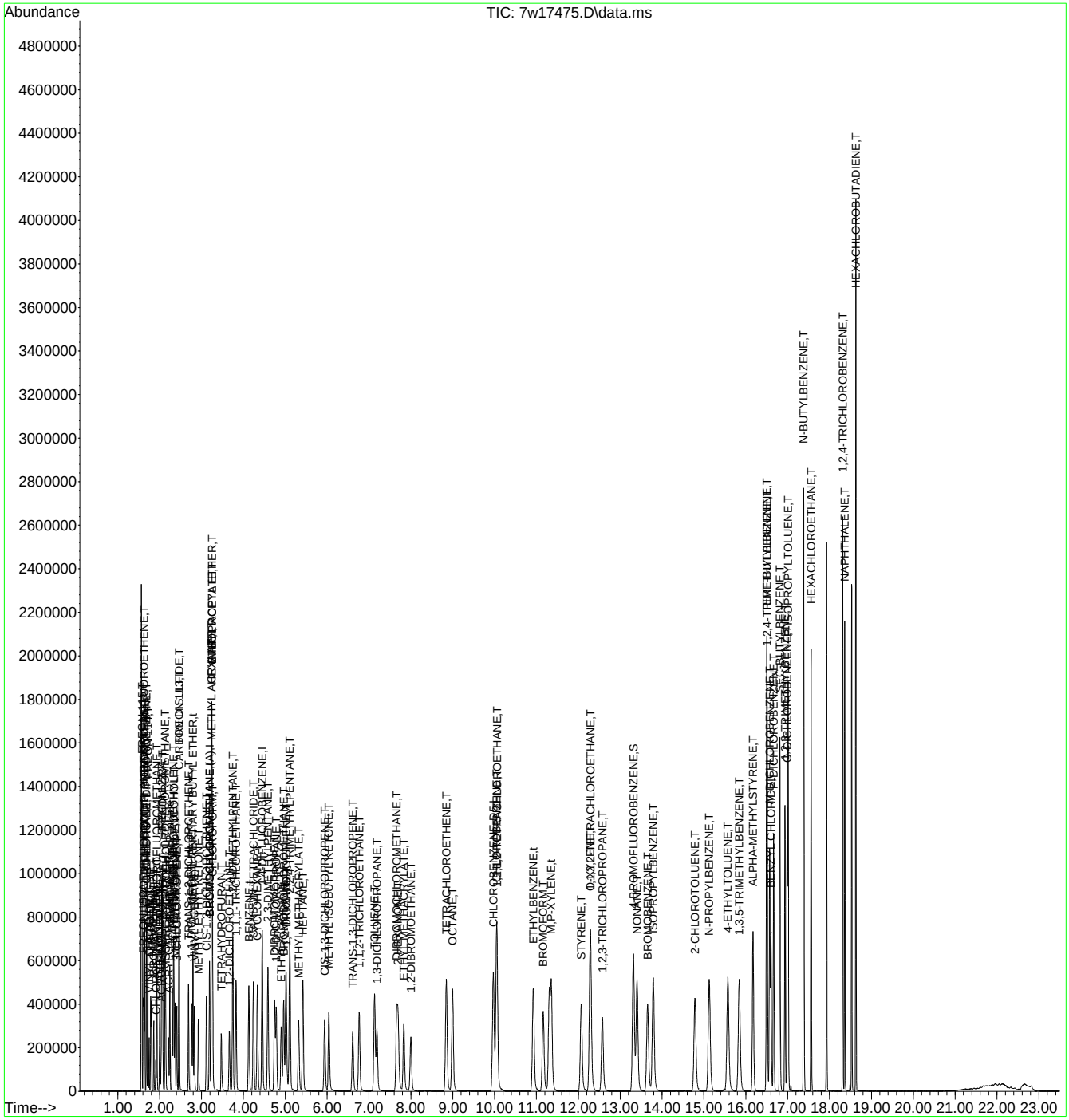
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

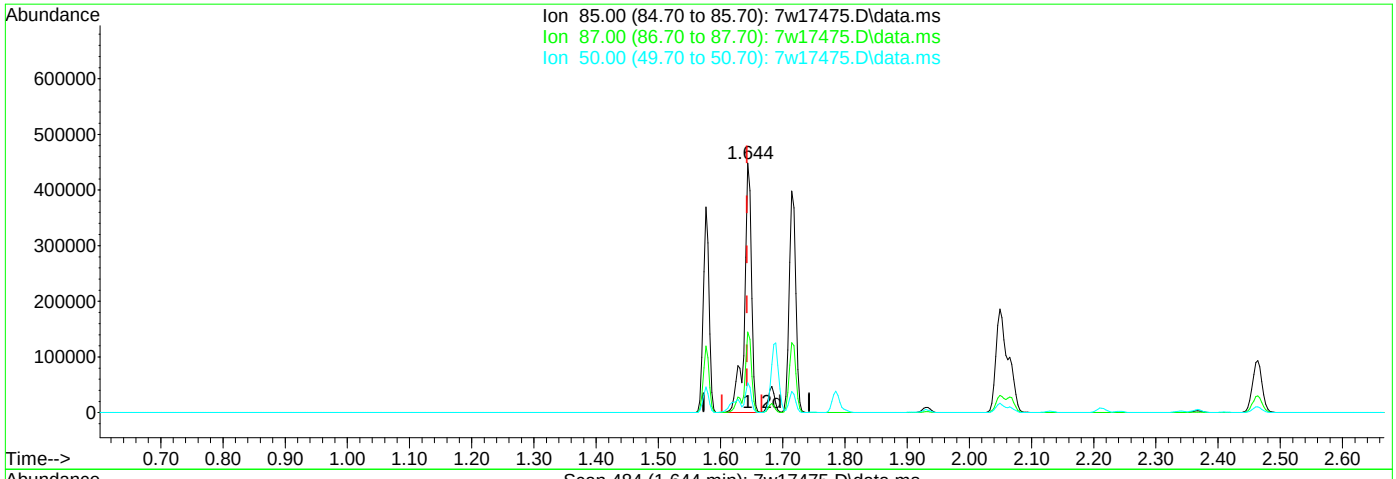
Sample Number: V7W613-BSD
Lab FileID: 7W17475.D
Injection Time: 09/26/25 12:32
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

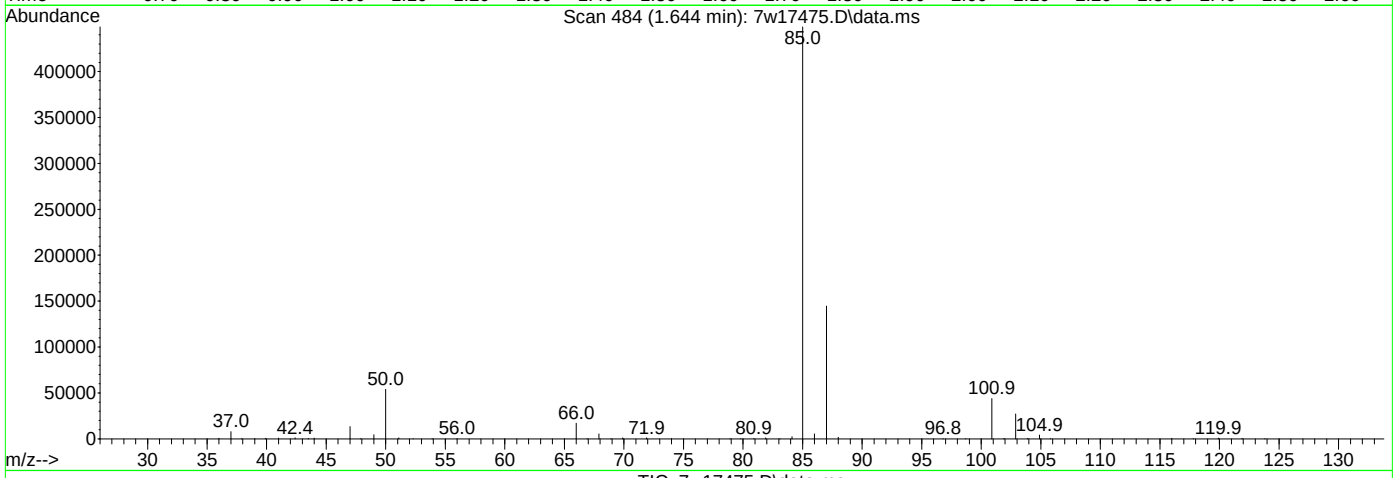
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak
Carbon disulfide	75-15-0		2.47	Missed peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.35PPBV

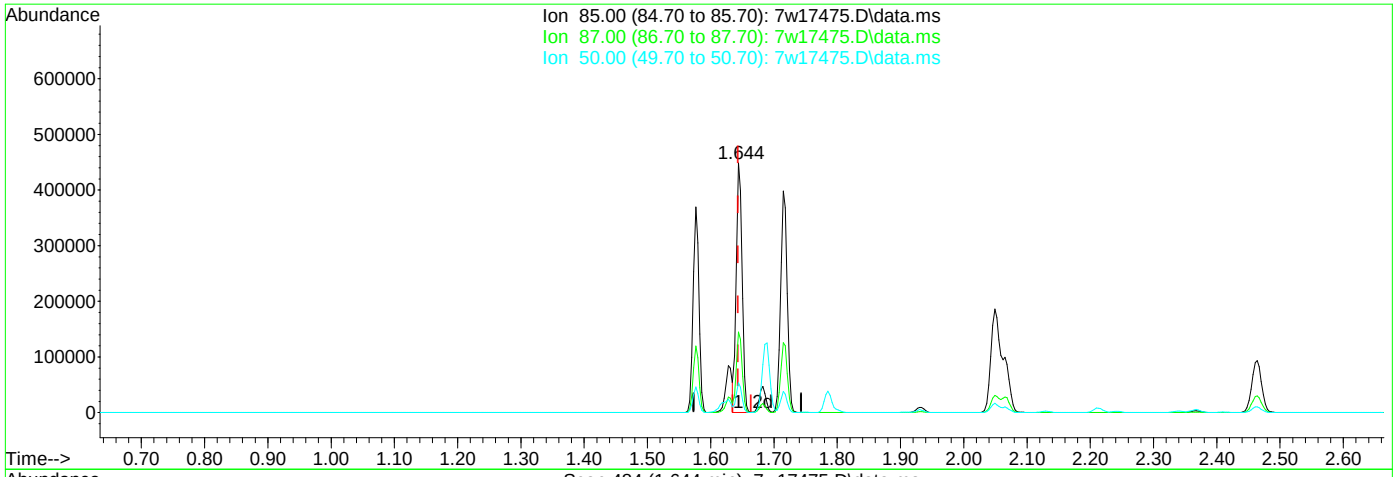
response 352449

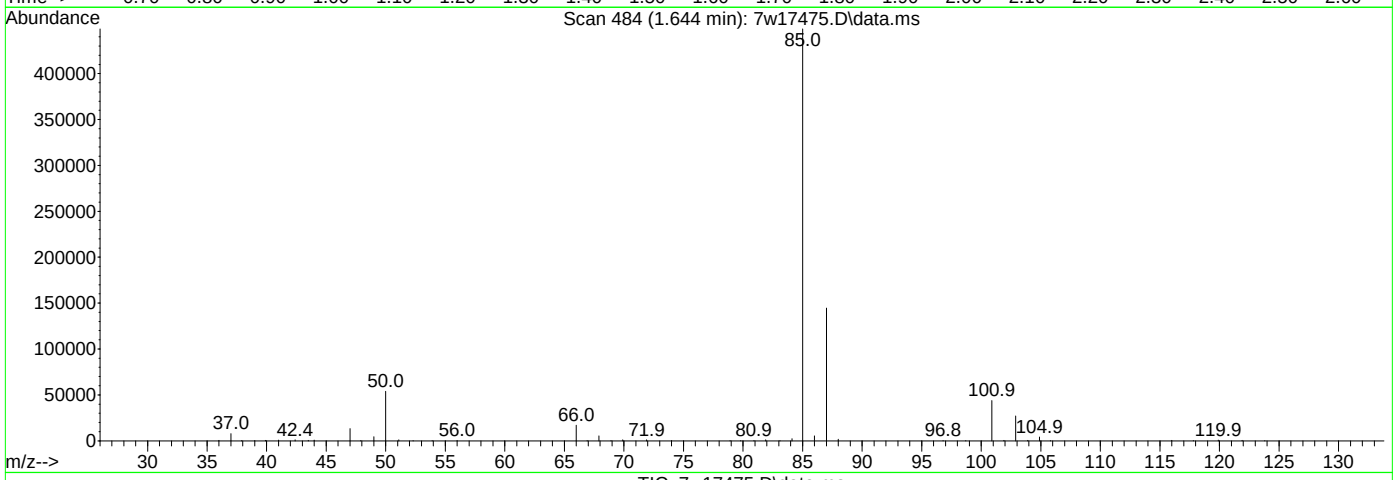
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.29
50.00	19.30	17.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.22PPBV m

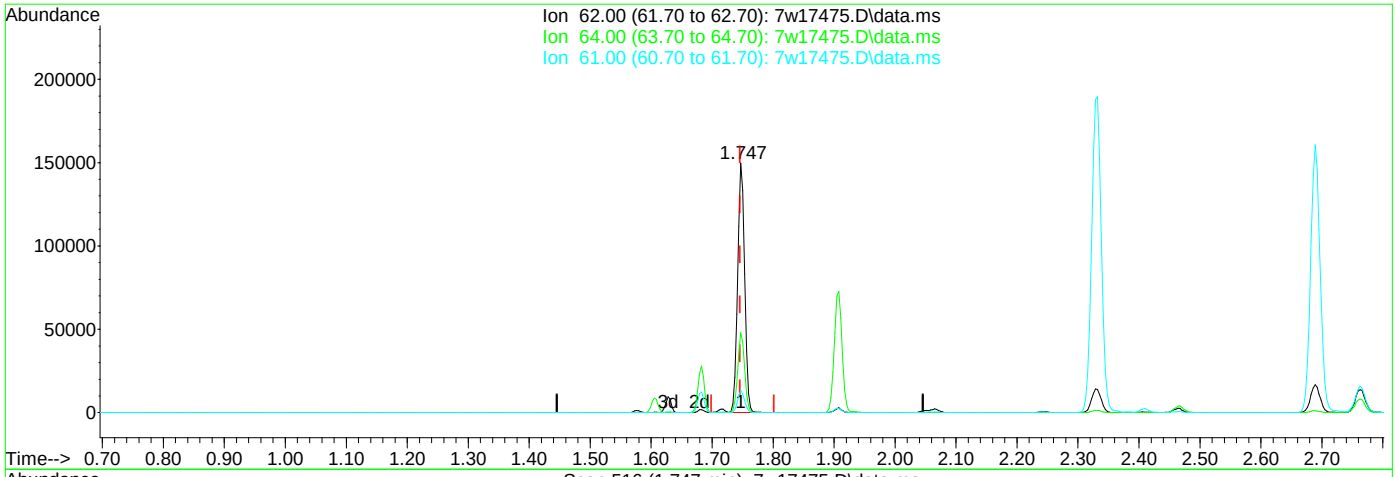
response 291674

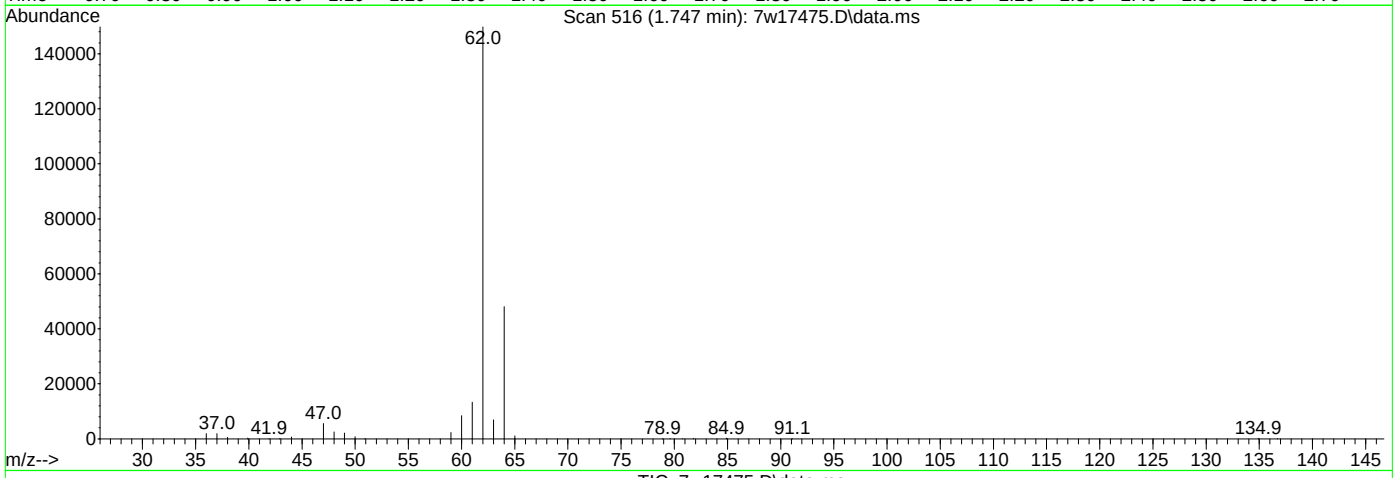
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.02
50.00	19.30	20.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.33PPBV

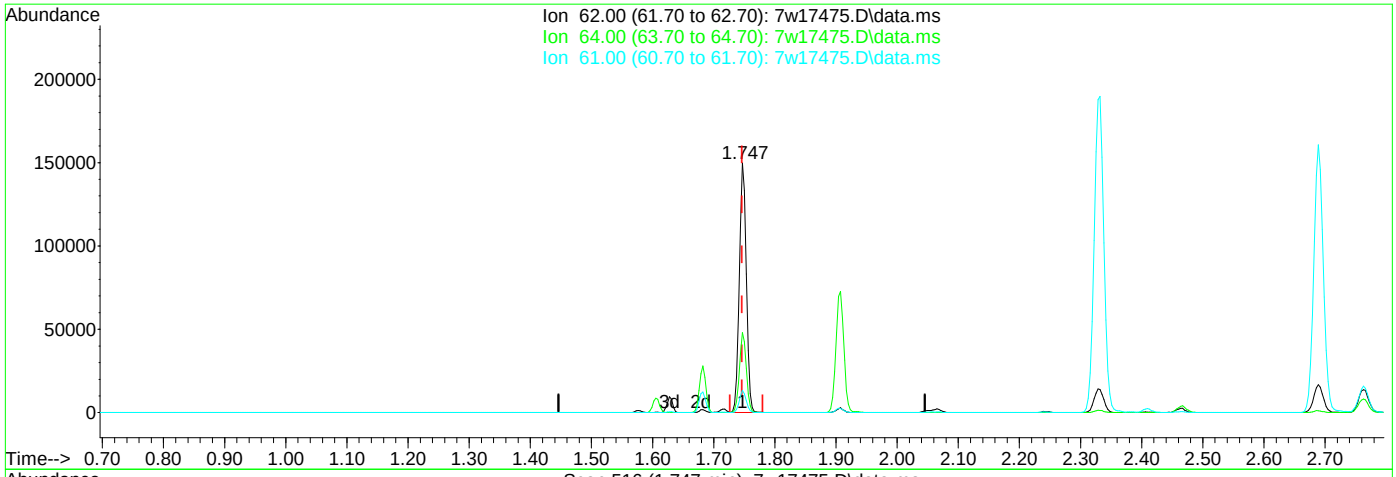
response 120814

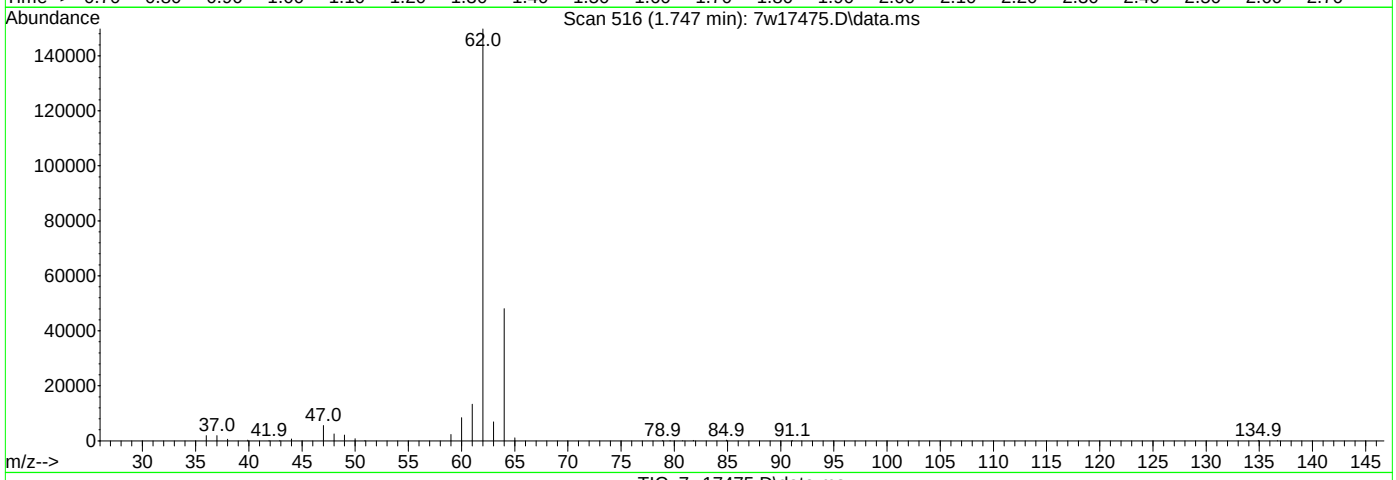
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.28
61.00	8.10	8.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.22PPBV m

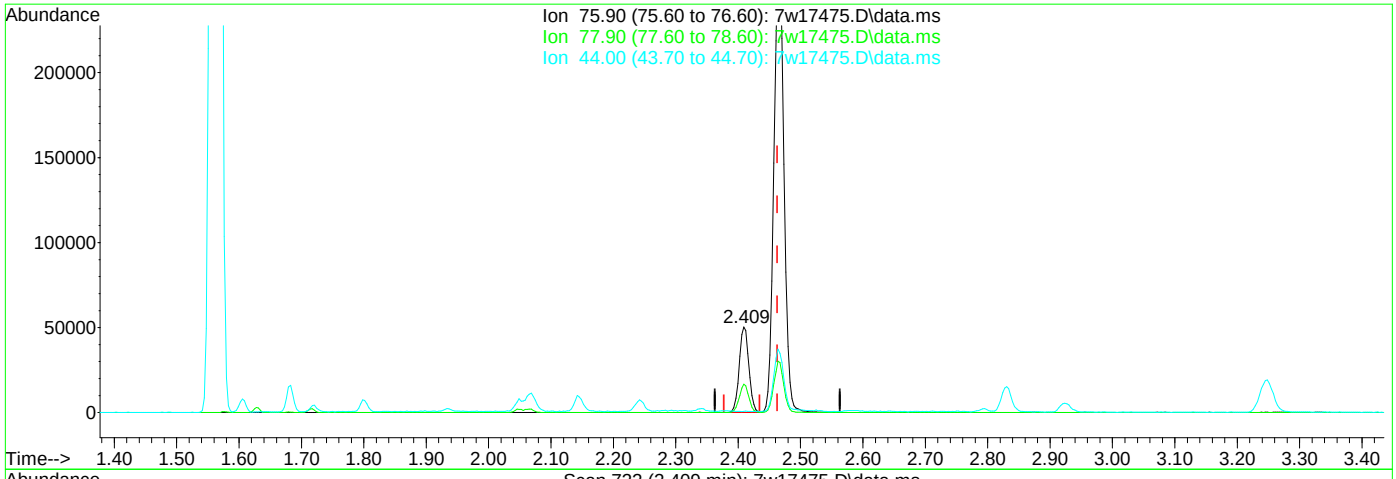
response 119109

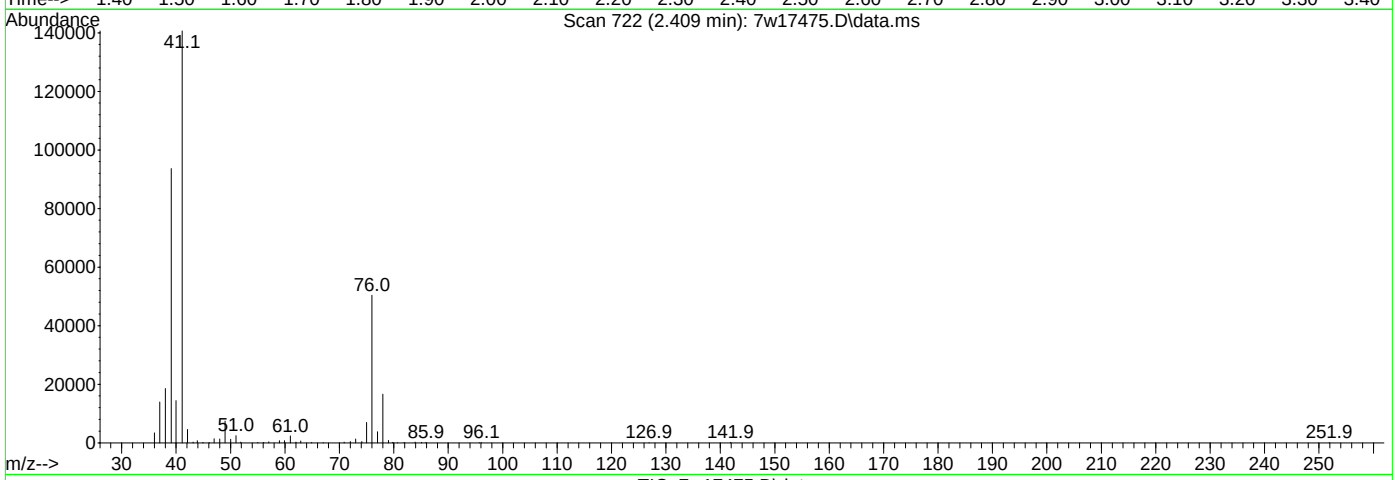
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.73
61.00	8.10	8.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.409min (-0.054) 1.62PPBV

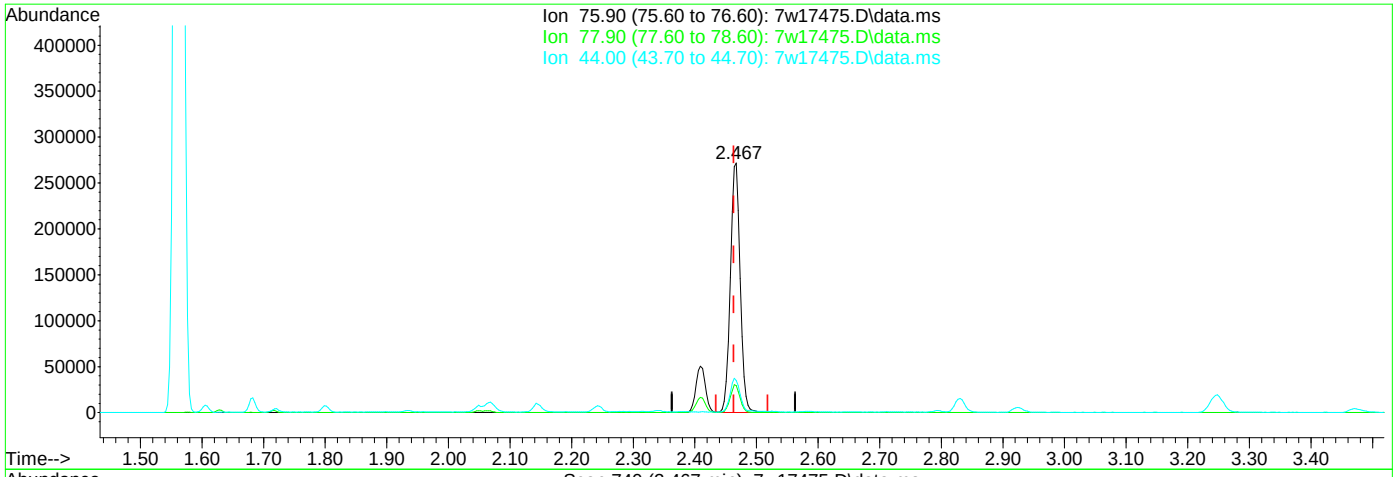
response 54178

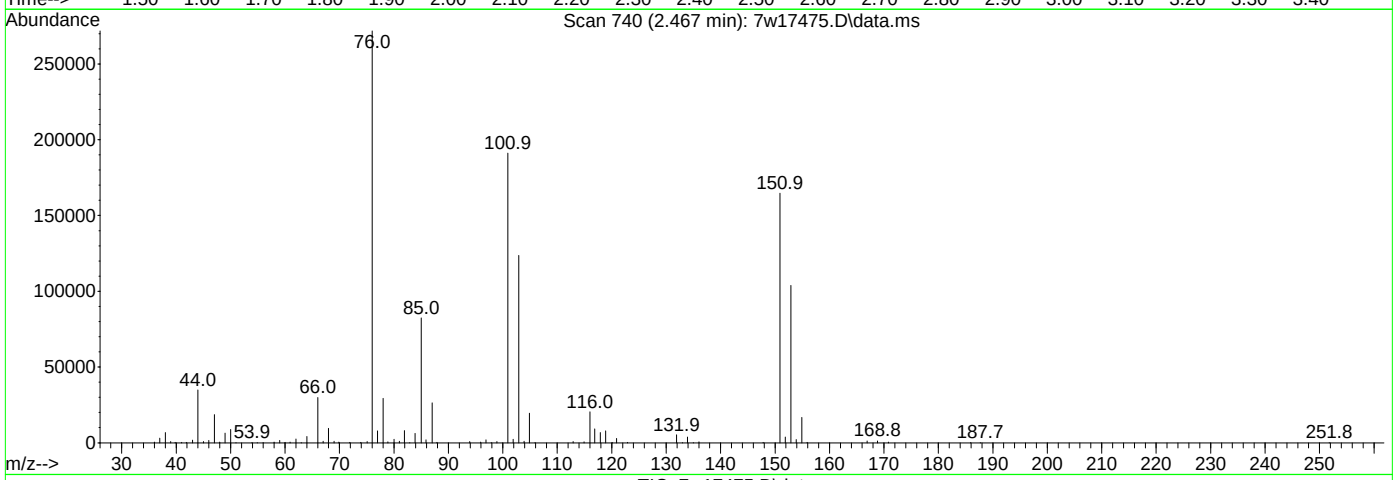
Ion	Exp%	Act%
75.90	100	100
77.90	11.00	32.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.467min (+0.004) 8.99PPBV m

response 301432

Ion	Exp%	Act%
75.90	100	100
77.90	11.00	5.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	130379	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	642815	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	599585	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	130461	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	486335	10.07	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	176735	11.1743	PPBV		99
3) FREON 152A	1.608	65	89326	10.9473	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	40053	11.3065	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	197338	11.5774	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	331395m	10.6133	PPBV		
7) PROPYLENE	1.627	41	107588	10.1874	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	298348	10.7394	PPBV		99
9) FREON 114	1.717	85	333202	10.3527	PPBV		98
10) CHLOROMETHANE	1.689	52	39113	8.7346	PPBV		96
11) VINYL CHLORIDE	1.750	62	140496m	8.8606	PPBV		
12) 1,3-BUTADIENE	1.785	54	109540	8.7462	PPBV		99
13) N-BUTANE	1.801	43	189708	8.9517	PPBV		98
14) BROMOMETHANE	1.859	94	120340	9.7876	PPBV		99
15) CHLOROETHANE	1.907	64	77444	8.9982	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.933	67	293933	9.8622	PPBV		99
17) ACETONITRILE	1.997	41	106613	7.1990	PPBV		100
18) ACROLEIN	2.036	56	60964	8.6658	PPBV		97
19) FREON 123	2.049	83	313937	10.4544	PPBV		99
20) FREON 123A	2.068	117	196771	11.0608	PPBV		94
21) TRICHLOROFLUOROMETHANE	2.129	101	362130	10.6783	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	277425	9.6537	PPBV		97
23) ACETONE	2.074	58	72195	9.1885	PPBV		96
24) PENTANE	2.242	42	135958	8.7355	PPBV		95
25) IODOMETHANE	2.303	142	352266	11.2902	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	134028	10.3681	PPBV		95
27) CARBON DISULFIDE	2.463	76	345454	9.4183	PPBV		99
28) ETHANOL	1.936	45	58852	7.6924	PPBV		98
29) BROMOETHENE	2.007	106	125973	10.2053	PPBV		100
30) ACRYLONITRILE	2.213	52	103889	9.4028	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	117155	9.2451	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	62884	9.0946	PPBV		93
33) FREON 113	2.463	151	222768	11.4407	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	127816	8.9868	PPBV		95
35) TERTIARY BUTYL ALCOHOL	2.341	59	281570	7.8423	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	403327	9.9691	PPBV		100
37) TETRAHYDROFURAN	3.470	72	63152	9.6247	PPBV		95
38) HEXANE	3.242	57	265163	9.7303	PPBV		100
39) VINYL ACETATE	2.830	86	39734	10.2179	PPBV		91
40) 1,1-DICHLOROETHANE	2.762	63	268535	9.7668	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	72677	9.7738	PPBV		93
42) CIS-1,2-DICHLOROETHENE	3.116	96	152205	10.3170	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	75942	9.8290	PPBV		95
44) ETHYL ACETATE	3.251	61	53380	10.2196	PPBV		96
45) METHYL ACRYLATE	3.238	55	326671	9.9066	PPBV	#	100
46) CHLOROFORM	3.264	83	302027	10.6136	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	312976	10.2614	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	322542	10.7547	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	344735	11.0957	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224224	10.1362	PPBV		99
51)	BENZENE	4.129	78	434136	9.9453	PPBV		99
53)	CYCLOHEXANE	4.335	84	195153	10.3770	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.586	71	100086	10.6718	PPBV		100
55)	TRICHLOROETHENE	5.013	95	203318	10.1417	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	182672	10.3093	PPBV		99
57)	DIBROMOMETHANE	4.746	174	219183	12.8301	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	405297	10.2192	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	344428	10.6336	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	843872	9.7228	PPBV		99
61)	1,4-DIOXANE	5.029	88	102208	10.7705	PPBV		97
62)	HEPTANE	5.418	43	281372	9.8183	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	166045	10.3110	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	163064	9.4885	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	281698	10.3681	PPBV		97
66)	TOLUENE	7.132	91	550062	10.7769	PPBV		98
67)	1,3-DICHLOROPROPANE	7.190	76	278241	10.8735	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	247748	10.0926	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.765	83	159511	10.9672	PPBV		98
70)	2-HEXANONE	7.691	58	219736	9.1635	PPBV		97
71)	ETHYL METHACRYLATE	7.830	69	282972	10.5342	PPBV		96
72)	TETRACHLOROETHENE	8.846	164	255210	13.7080	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	361003	12.2138	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	305704	11.6183	PPBV	#	98
75)	OCTANE	8.994	43	390745	10.1788	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	247746	11.5146	PPBV		98
78)	CHLOROBENZENE	10.045	112	451175	11.0149	PPBV		99
79)	ETHYLBENZENE	10.926	91	750408	11.1801	PPBV		99
80)	M,P-XYLENE	11.351	91	1163998	21.4078	PPBV		98
81)	O-XYLENE	12.280	91	593266	11.2419	PPBV		99
82)	STYRENE	12.071	104	449108	11.3517	PPBV		99
83)	NONANE	13.402	43	415056	10.1039	PPBV		97
84)	BROMOFORM	11.161	173	406205	16.0491	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	423563	11.2047	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.576	75	333873	11.2690	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218081	10.8709	PPBV		99
89)	BROMOBENZENE	13.656	77	410584	10.6567	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	201788	10.7850	PPBV		100
91)	N-PROPYLBENZENE	15.125	120	231395	10.8678	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	870118	11.0427	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.846	105	731717	11.1579	PPBV		98
94)	ALPHA-METHYLSTYRENE	16.173	118	351353	10.8032	PPBV		99
95)	TERT-BUTYLBENZENE	16.495	134	165463	10.3488	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	747610	11.4996	PPBV		99
97)	BENZYL CHLORIDE	16.598	91	551134	10.4934	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	482591	10.8044	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	486723	11.0587	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	460040	11.1032	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	202794	10.6516	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	718118	11.0188	PPBV		98
103)	P-ISOPROPYLTOLUENE	17.009	134	221605	10.4722	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218487	10.8299	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	282989	11.3859	PPBV	#	83
106)	HEXACHLOROBUTADIENE	18.620	225	578900	19.6459	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.308	180	586728	16.6022	PPBV		97
108)	NAPHTHALENE	18.357	128	1106673	13.9595	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	673394	9.1450	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

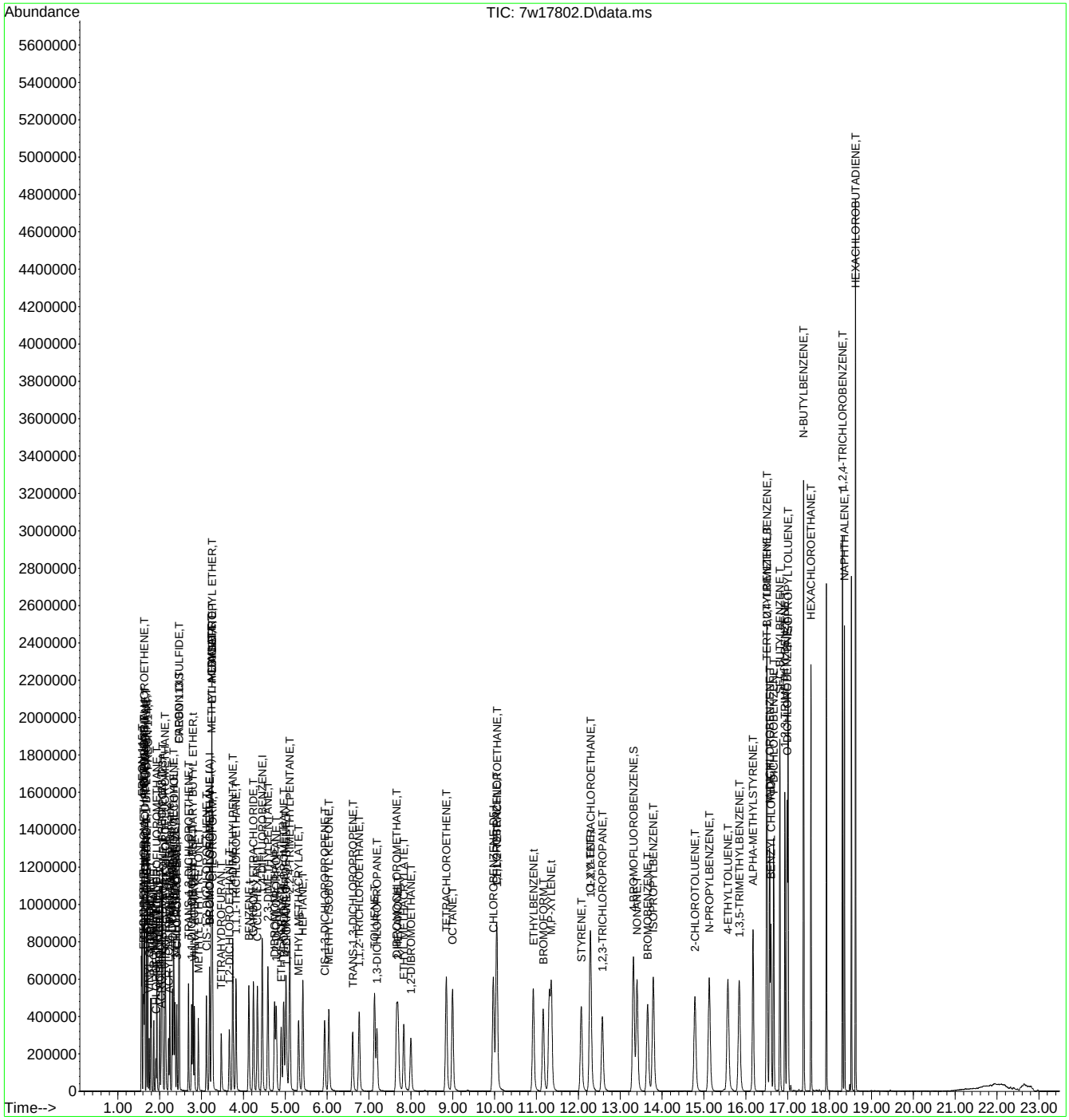
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

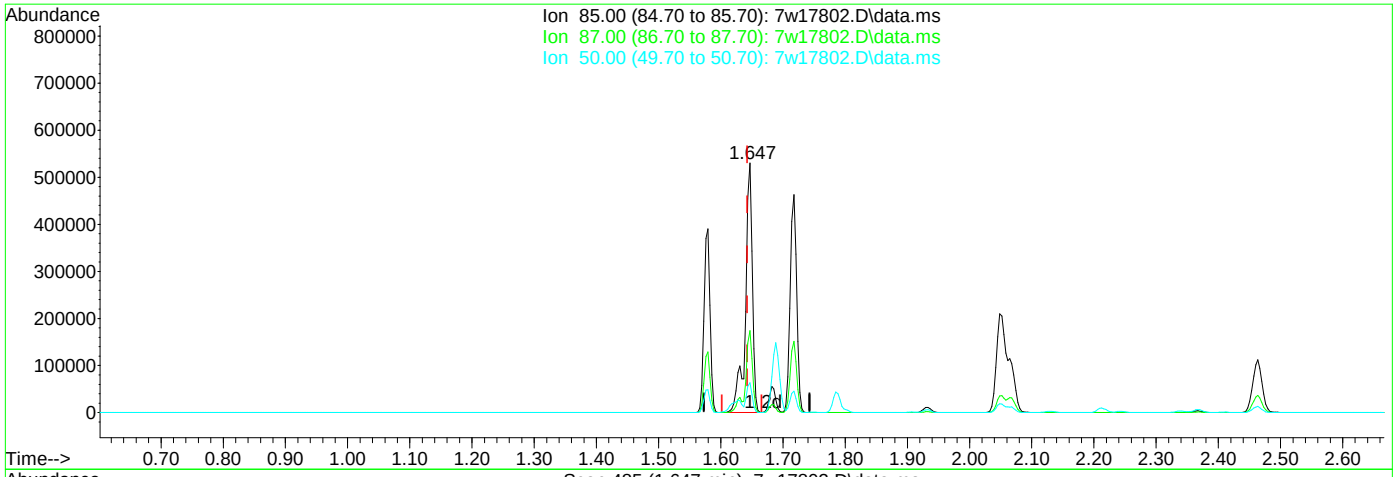
Sample Number: V7W624-BS
Lab FileID: 7W17802.D
Injection Time: 10/13/25 12:00
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

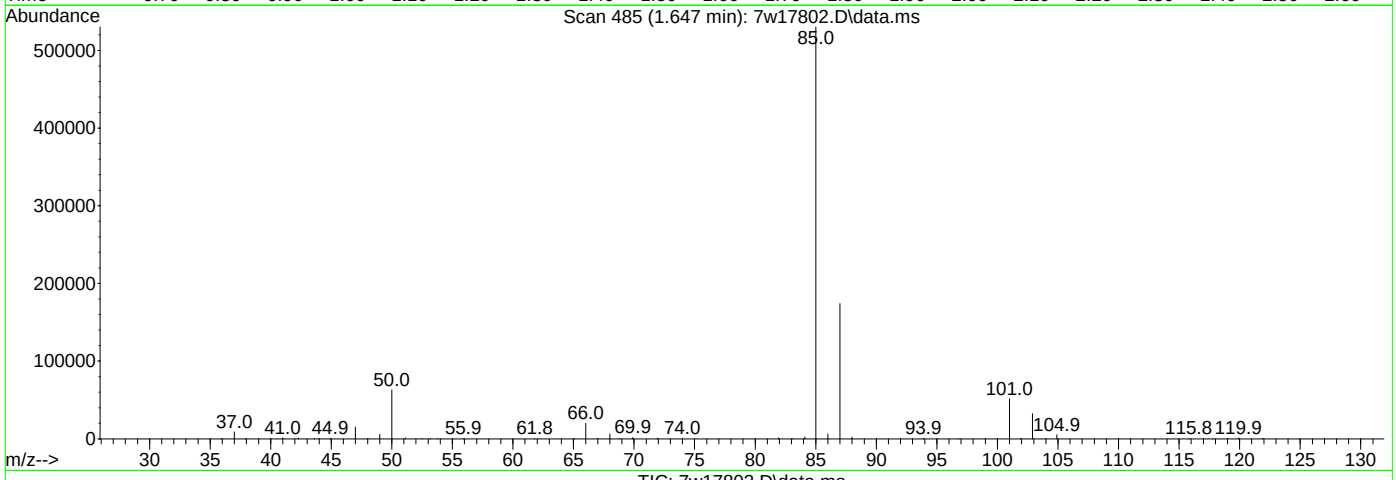
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.10PPBV

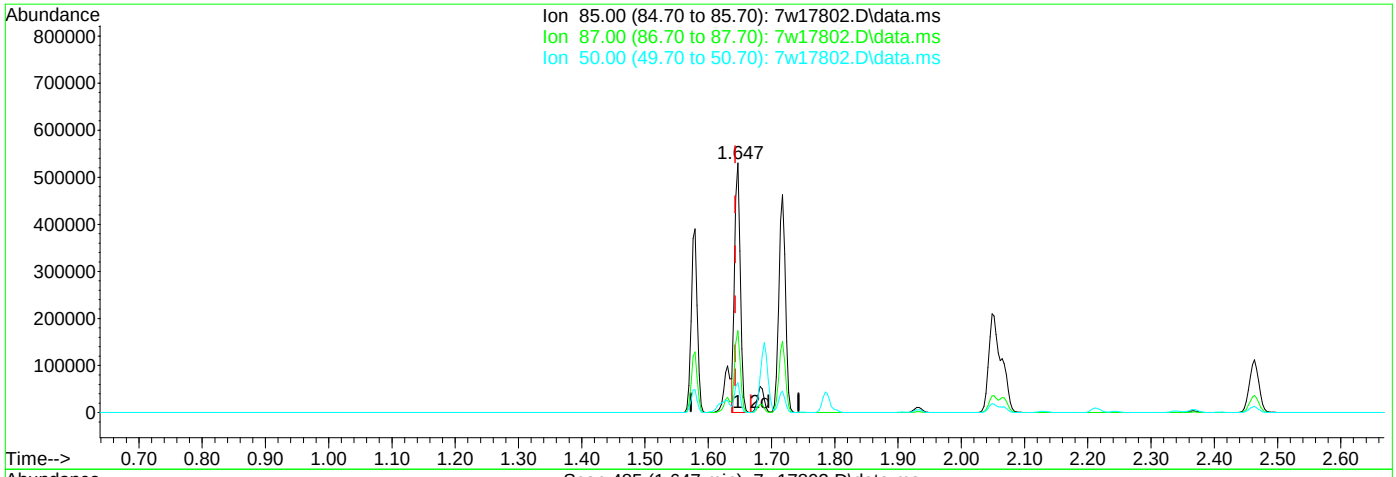
response 409190

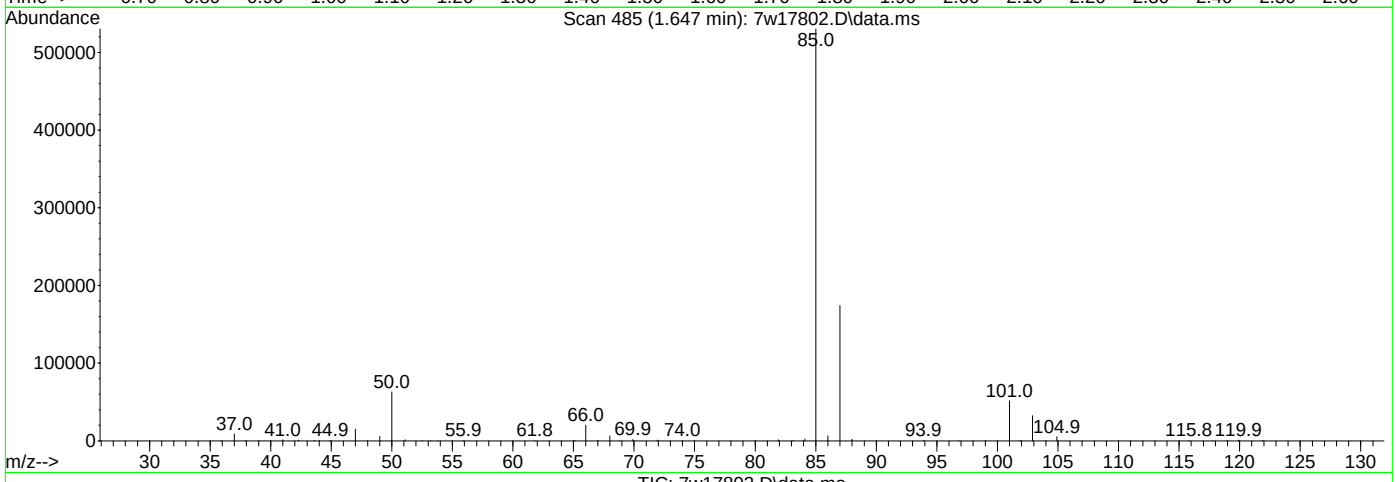
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.71
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.61PPBV m

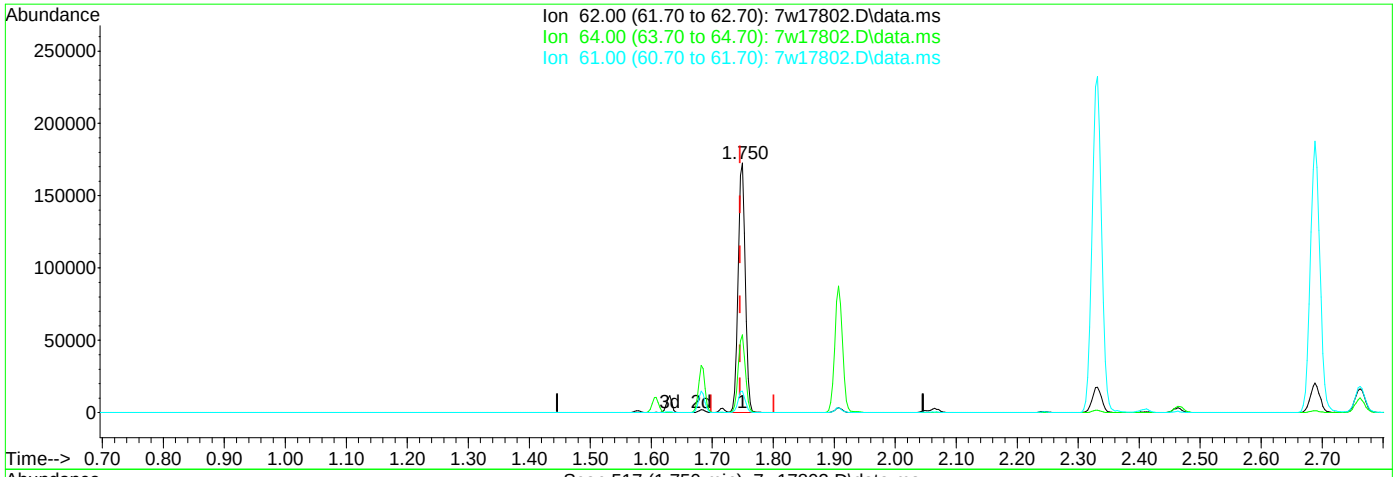
response 331395

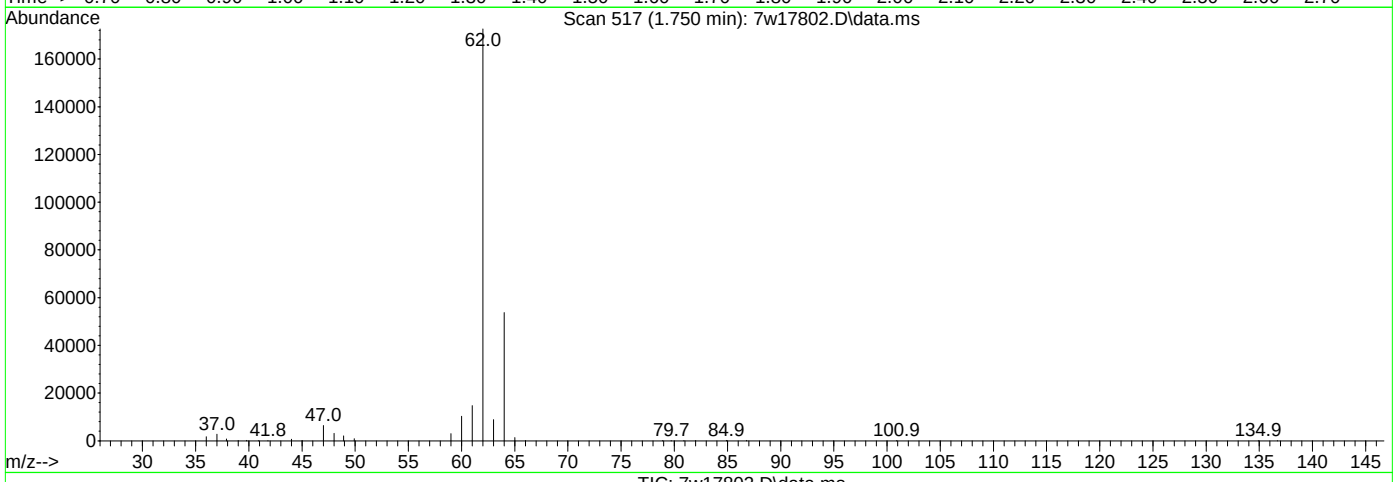
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.39
50.00	19.30	21.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.98PPBV

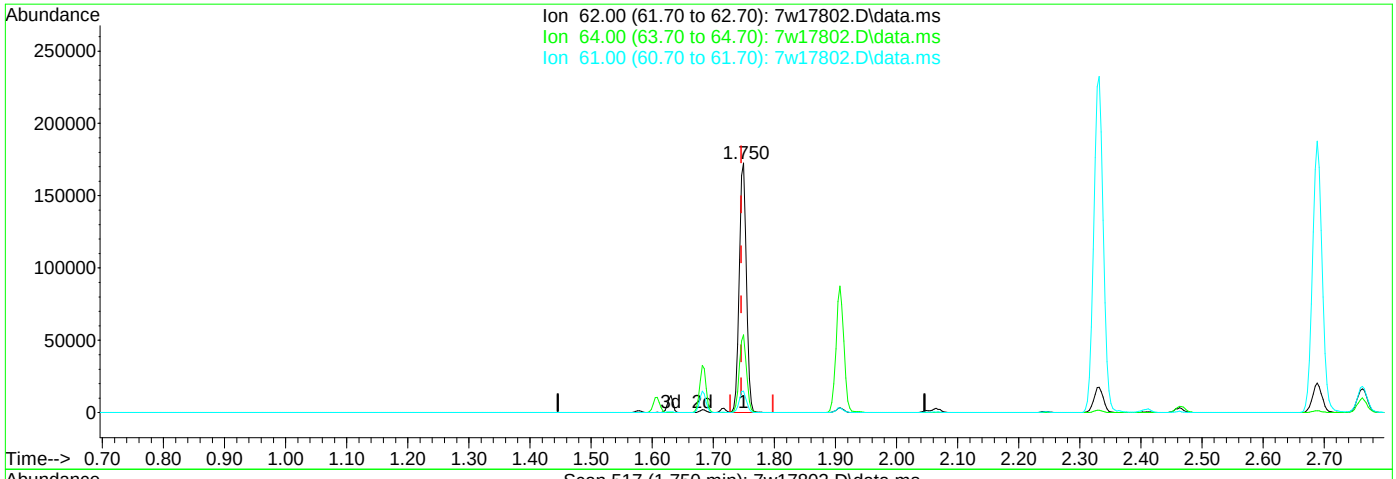
response 142442

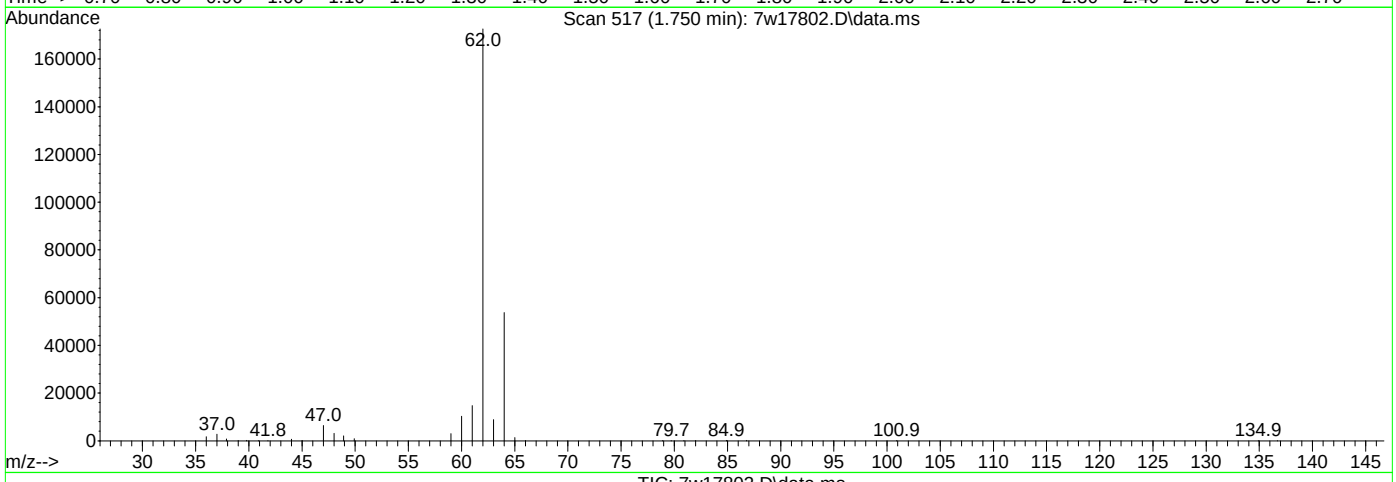
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.06
61.00	8.10	8.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.86PPBV m

response 140496

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.49
61.00	8.10	9.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	133015	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	654252	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	606507	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	133015	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	488885	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	184518	11.4351	PPBV		97
3) FREON 152A	1.608	65	88561	10.6384	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	39504	10.9306	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	198082	11.3907	PPBV		93
6) DICHLORODIFLUOROMETHANE	1.647	85	330825m	10.3850	PPBV		
7) PROPYLENE	1.627	41	106360	9.8716	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	294346	10.3854	PPBV		99
9) FREON 114	1.718	85	333590	10.1593	PPBV		98
10) CHLOROMETHANE	1.689	52	38875	8.5094	PPBV		95
11) VINYL CHLORIDE	1.750	62	141171m	8.7268	PPBV		
12) 1,3-BUTADIENE	1.788	54	109232	8.5488	PPBV		98
13) N-BUTANE	1.801	43	188556	8.7211	PPBV		98
14) BROMOMETHANE	1.859	94	120595	9.6140	PPBV		100
15) CHLOROETHANE	1.907	64	77077	8.7781	PPBV		97
16) DICHLOROFLUOROMETHANE	1.933	67	293626	9.6567	PPBV		99
17) ACETONITRILE	1.997	41	107546	7.1181	PPBV		100
18) ACROLEIN	2.036	56	60096	8.3731	PPBV		98
19) FREON 123	2.049	83	313055	10.2185	PPBV		99
20) FREON 123A	2.068	117	194913	10.7393	PPBV		95
21) TRICHLOROFLUOROMETHANE	2.129	101	360832	10.4292	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	271841	9.2719	PPBV		97
23) ACETONE	2.074	58	71308	8.8957	PPBV		93
24) PENTANE	2.245	42	137594	8.6655	PPBV		97
25) IODOMETHANE	2.303	142	349118	10.9676	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	133461	10.1196	PPBV		93
27) CARBON DISULFIDE	2.463	76	347514	9.2867	PPBV		99
28) ETHANOL	1.936	45	58793	7.5324	PPBV		99
29) BROMOETHENE	2.007	106	126156	10.0176	PPBV		99
30) ACRYLONITRILE	2.213	52	102809	9.1206	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	116850	9.0383	PPBV		91
32) 3-CHLOROPROPENE	2.409	76	62225	8.8210	PPBV		94
33) FREON 113	2.463	151	226512	11.4025	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.689	96	126753	8.7354	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.341	59	282424	7.7102	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	404326	9.7958	PPBV		100
37) TETRAHYDROFURAN	3.470	72	64425	9.6242	PPBV		94
38) HEXANE	3.242	57	266392	9.5817	PPBV		99
39) VINYL ACETATE	2.830	86	39170	9.8733	PPBV		92
40) 1,1-DICHLOROETHANE	2.762	63	279927	9.9793	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	72215	9.5192	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	151940	10.0949	PPBV		97
43) DIISOPROPYL ETHER	3.245	59	75945	9.6346	PPBV		93
44) ETHYL ACETATE	3.251	61	53799	10.0957	PPBV		93
45) METHYL ACRYLATE	3.238	55	325302	9.6696	PPBV	#	99
46) CHLOROFORM	3.264	83	301909	10.3992	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313273	10.0676	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	320180	10.4644	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	344405	10.8654	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	222139	9.8429	PPBV		98
51)	BENZENE	4.129	78	434777	9.7626	PPBV		99
53)	CYCLOHEXANE	4.335	84	196451	10.2634	PPBV		98
54)	2,3-DIMETHYLPENTANE	4.589	71	99309	10.4039	PPBV		100
55)	TRICHLOROETHENE	5.016	95	203186	9.9580	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181676	10.0739	PPBV		99
57)	DIBROMOMETHANE	4.746	174	220157	12.6619	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	408747	10.1261	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	340157	10.3182	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	830339	9.3996	PPBV		100
61)	1,4-DIOXANE	5.029	88	100689	10.4249	PPBV		99
62)	HEPTANE	5.418	43	278969	9.5643	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	165333	10.0873	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	164209	9.3881	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	282530	10.2170	PPBV		96
66)	TOLUENE	7.129	91	547970	10.5482	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	280485	10.7696	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	247201	9.8943	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	160800	10.8626	PPBV		98
70)	2-HEXANONE	7.692	58	221370	9.0703	PPBV		96
71)	ETHYL METHACRYLATE	7.830	69	280723	10.2678	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	253519	13.3791	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	357061	11.8692	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	302895	11.3103	PPBV	#	100
75)	OCTANE	8.997	43	389859	9.9782	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	244269	11.2234	PPBV		97
78)	CHLOROBENZENE	10.045	112	450459	10.8719	PPBV		100
79)	ETHYLBENZENE	10.923	91	751257	11.0651	PPBV		99
80)	M,P-XYLENE	11.347	91	1173523	21.3367	PPBV		99
81)	O-XYLENE	12.277	91	592934	11.1073	PPBV		99
82)	STYRENE	12.068	104	454402	11.3545	PPBV		99
83)	NONANE	13.402	43	413963	9.9623	PPBV		98
84)	BROMOFORM	11.161	173	406068	15.8606	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	423094	11.0646	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	334705	11.1682	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218245	10.7550	PPBV		100
89)	BROMOBENZENE	13.656	77	409590	10.5096	PPBV		87
90)	2-CHLOROTOLUENE	14.785	126	203896	10.7733	PPBV		100
91)	N-PROPYLBENZENE	15.129	120	231345	10.7414	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	877241	11.0060	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	734177	11.0677	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.170	118	351054	10.6708	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	165961	10.2615	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	742070	11.2841	PPBV		100
97)	BENZYL CHLORIDE	16.598	91	548913	10.3318	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	486045	10.7576	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	485602	10.9073	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	457928	10.9261	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	201843	10.4806	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	720134	10.9236	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	221195	10.3336	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218571	10.7104	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	284764	11.3265	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.624	225	569272	19.0986	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	587813	16.4431	PPBV		97
108)	NAPHTHALENE	18.357	128	1114796	13.9014	PPBV		100
110)	TVHC as equiv Pentane	2.245	TIC	677533	9.0245	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

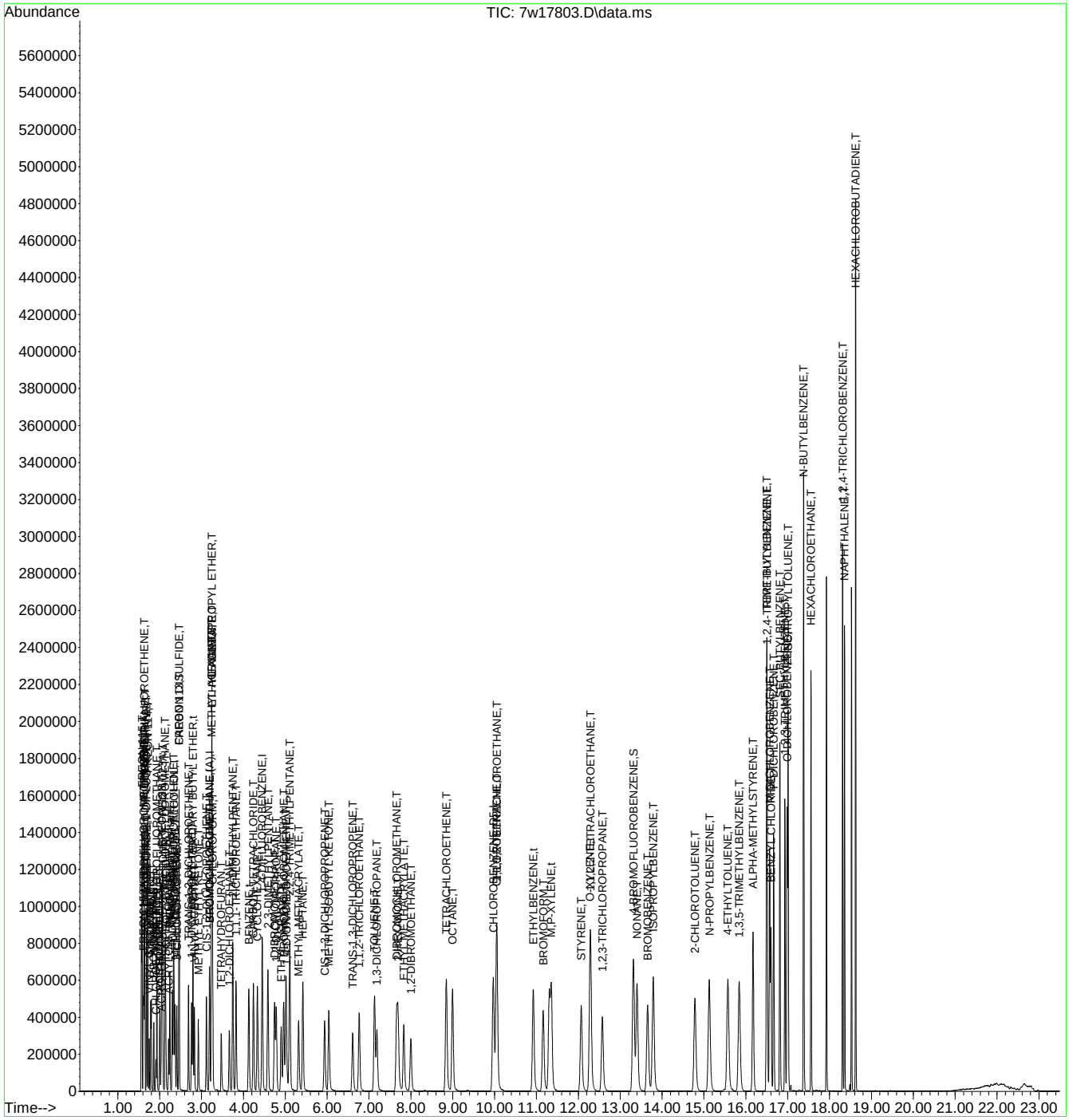
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

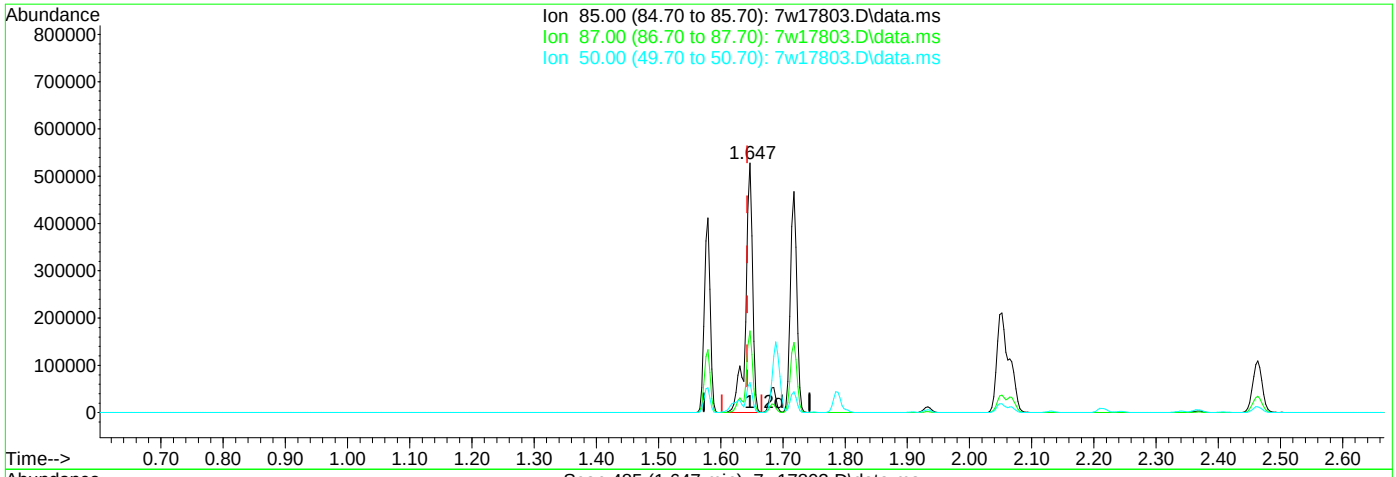
Sample Number: V7W624-BSD
Lab FileID: 7W17803.D
Injection Time: 10/13/25 12:37
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

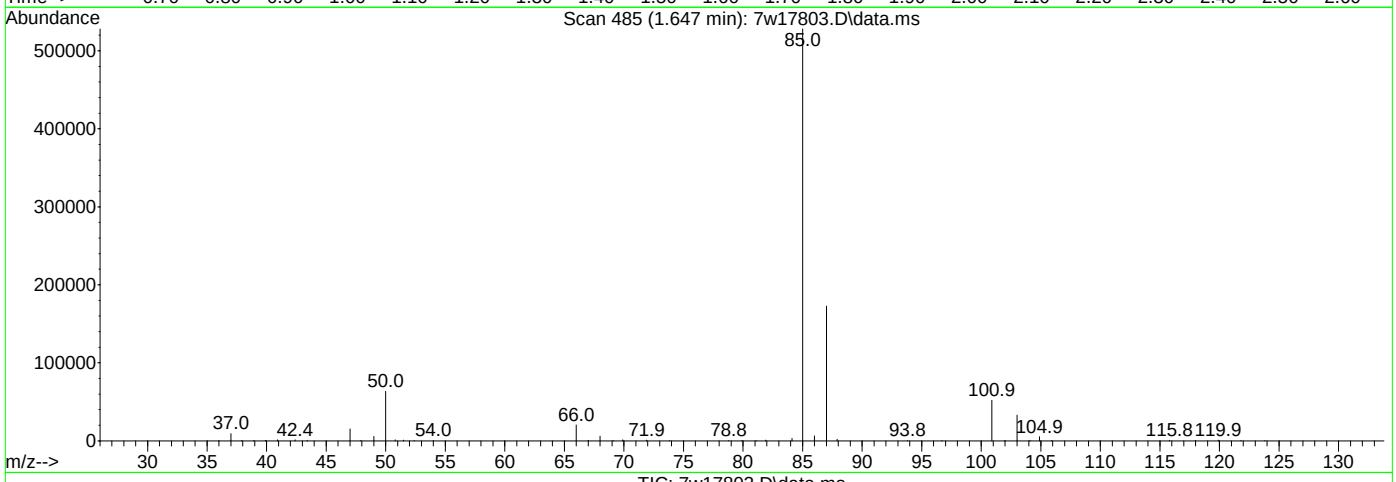
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

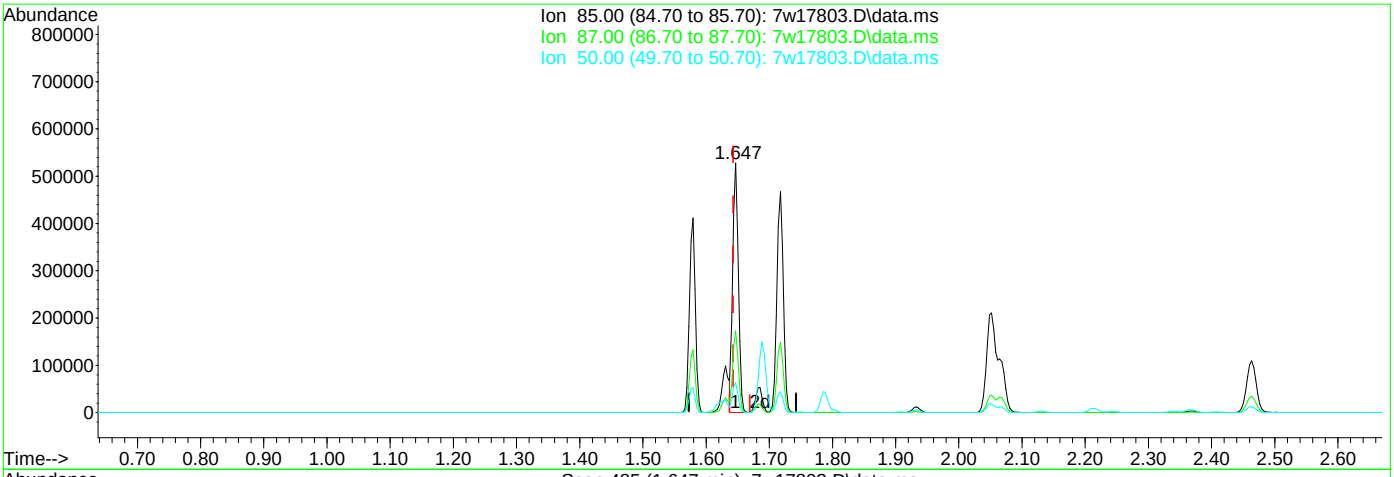
response 406017

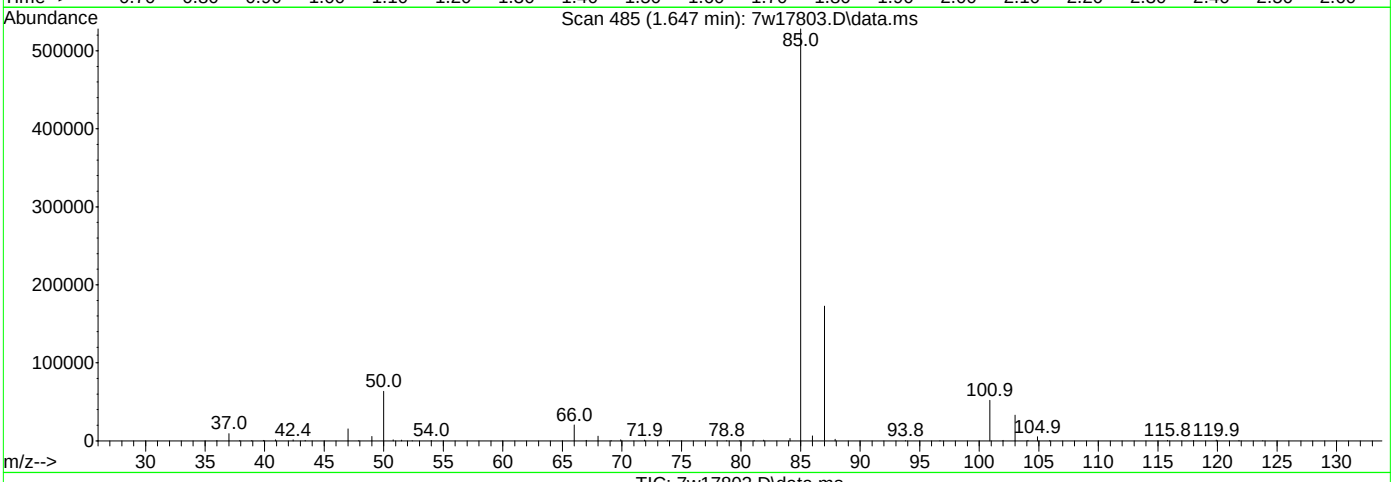
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.62
50.00	19.30	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.39PPBV m

response 330825

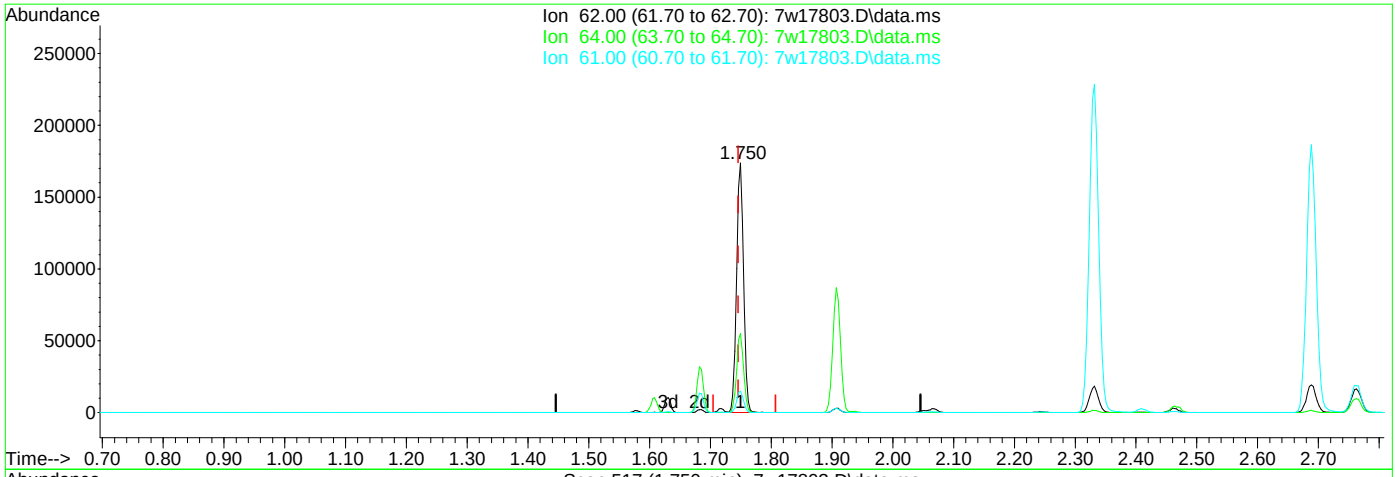
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.03
50.00	19.30	21.75
0.00	0.00	0.00

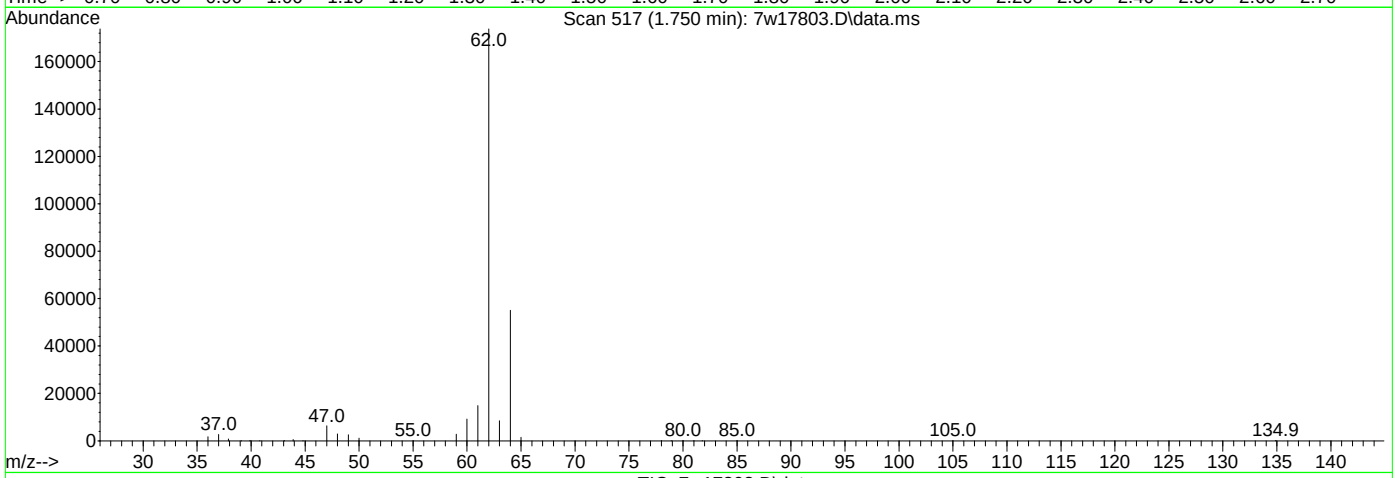
7W17803.D edits: DICHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.85PPBV

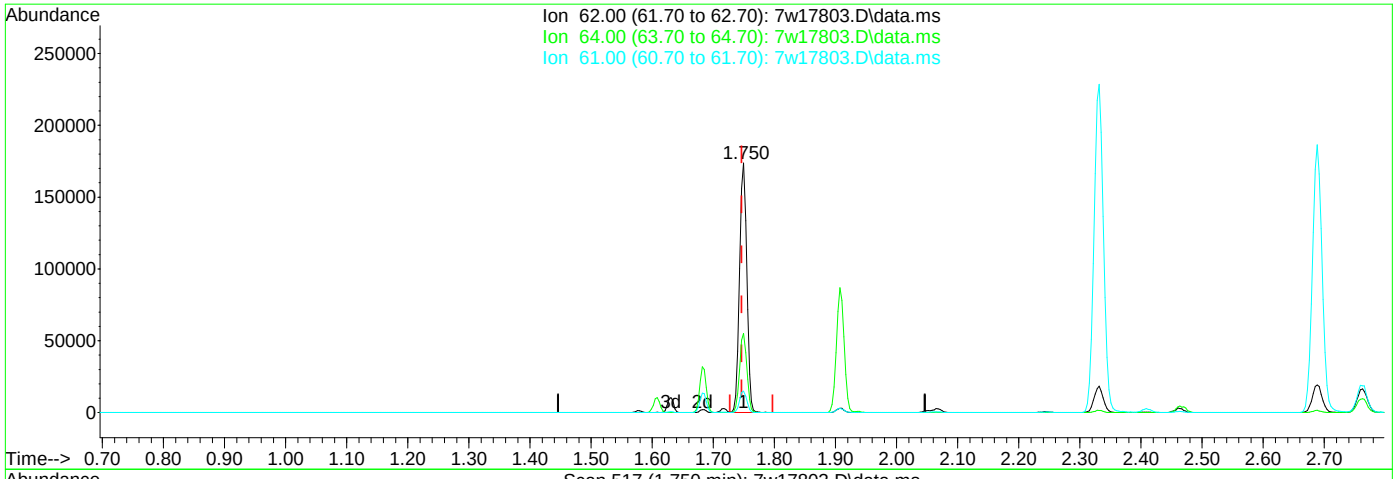
response 143146

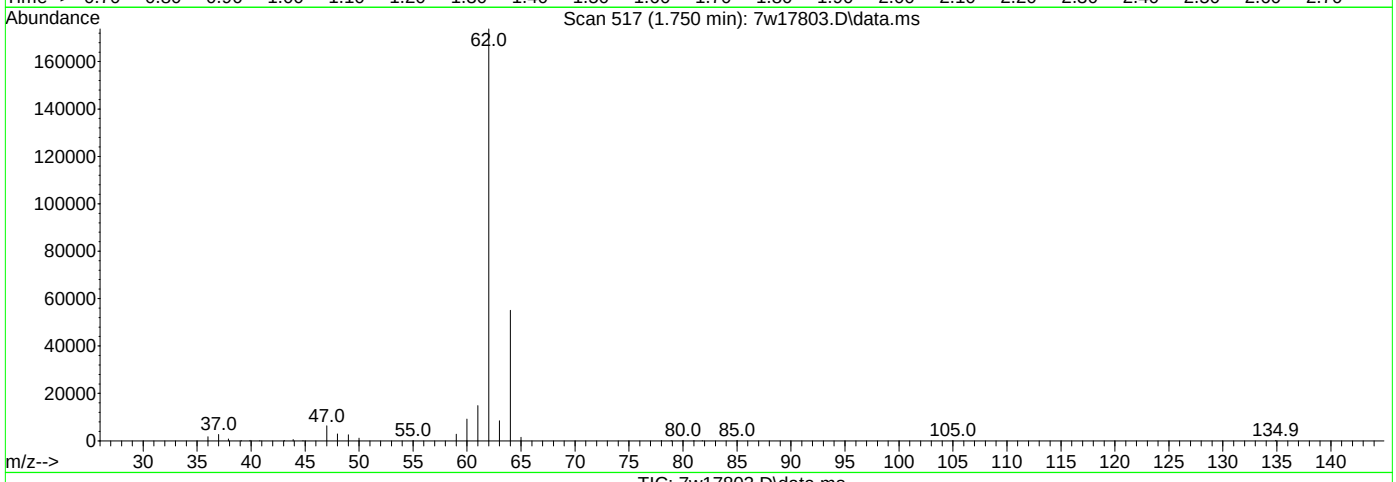
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.17
61.00	8.10	8.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.73PPBV m

response 141171

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.61
61.00	8.10	8.79
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

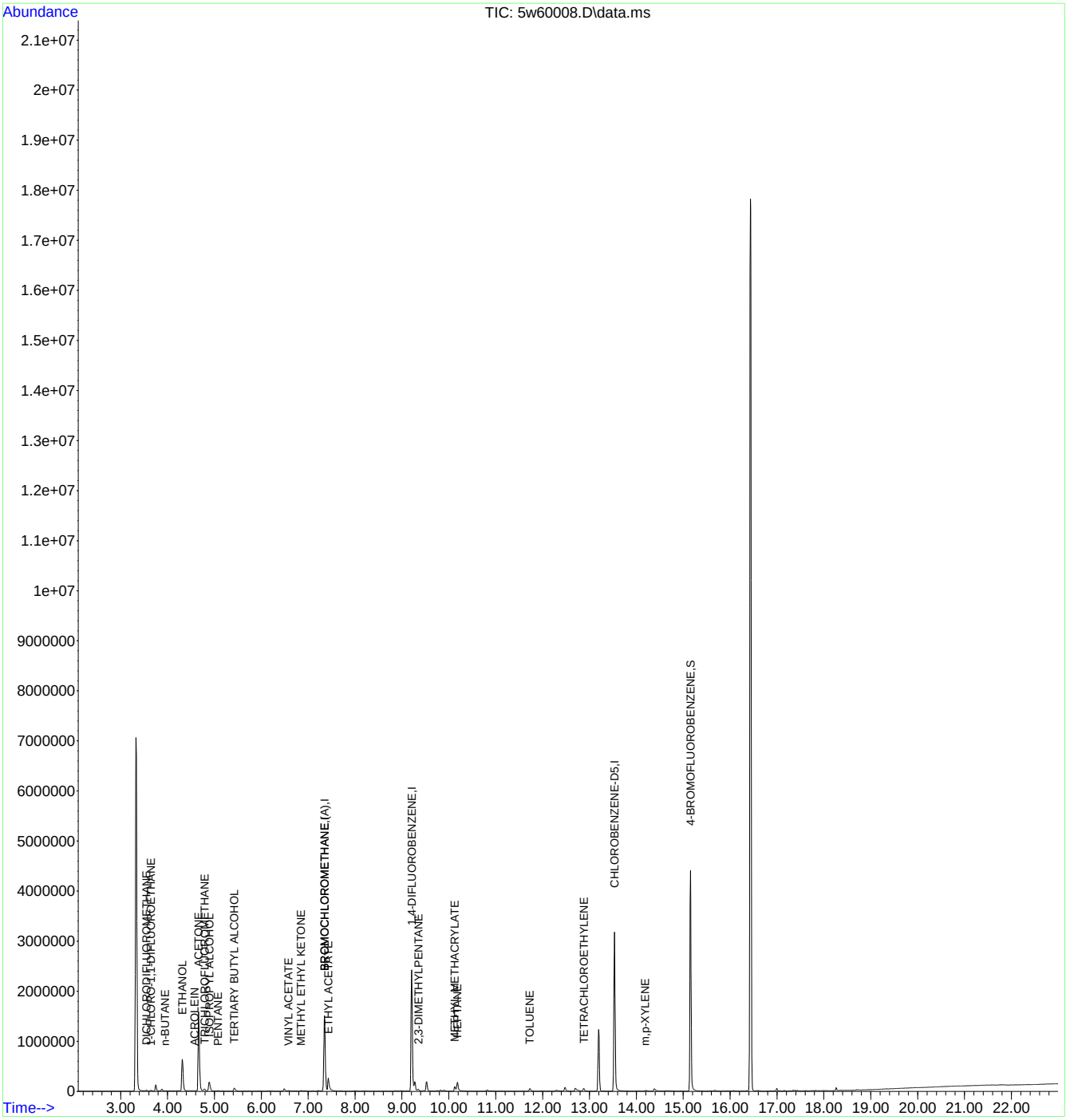
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	490041	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2190031	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1089506	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	490778	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1484212	10.90	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.00%				
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	3.549	85	17723	0.1264	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13929	0.1226	PPBV		96
13) n-BUTANE	3.946	43	4731	0.1013	PPBV		92
18) ACROLEIN	4.577	56	3620	0.2388	PPBV		79
21) TRICHLOROFLUOROMETHANE	4.791	101	31215	0.2606	PPBV		99
22) ISOPROPYL ALCOHOL	4.888	45	300854	3.1308	PPBV		95
23) ACETONE	4.662	58	752725	39.1644	PPBV		89
24) PENTANE	5.072	42	5091	0.1020	PPBV		98
28) ETHANOL	4.313	45	842689	52.3433	PPBV		98
35) TERTIARY BUTYL ALCOHOL	5.421	59	84382	0.8587	PPBV		95
39) VINYL ACETATE	6.577	86	1682	0.2126	PPBV	#	89
41) METHYL ETHYL KETONE	6.840	72	7867	0.4156	PPBV		95
44) ETHYL ACETATE	7.427	61	58928	4.0742	PPBV		94
54) 2,3-DIMETHYLPENTANE	9.342	71	6241	0.2107	PPBV	#	92
62) HEPTANE	10.180	43	107980	1.2790	PPBV		78
63) METHYL METHACRYLATE	10.125	69	55112	1.1525	PPBV	#	73
66) TOLUENE	11.728	92	30163	0.2750	PPBV		94
73) TETRACHLOROETHYLENE	12.878	164	14795	0.1991	PPBV		97
80) m,p-XYLENE	14.194	106	8586	0.1043	PPBV		96

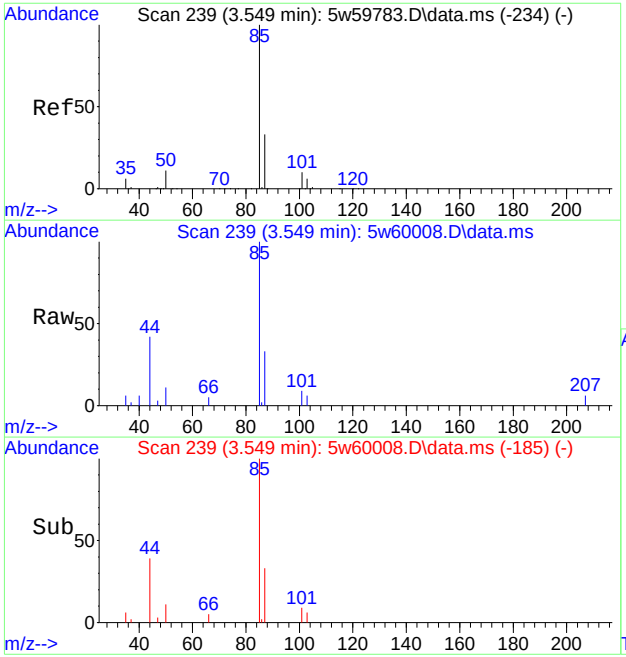
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

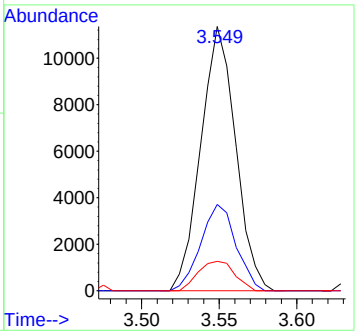


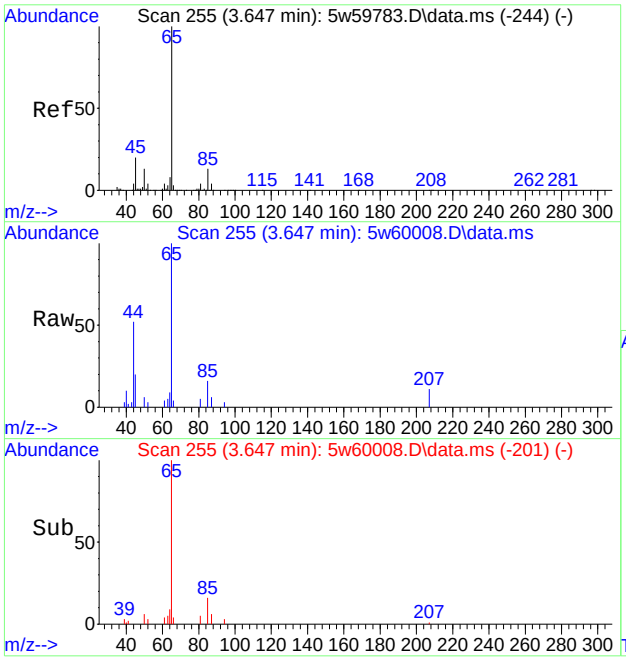


#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 85 Resp: 17723

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

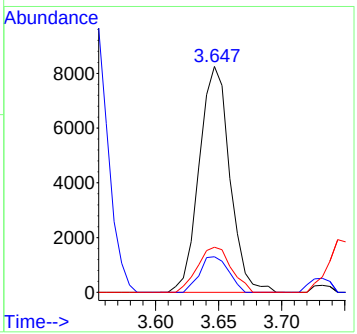


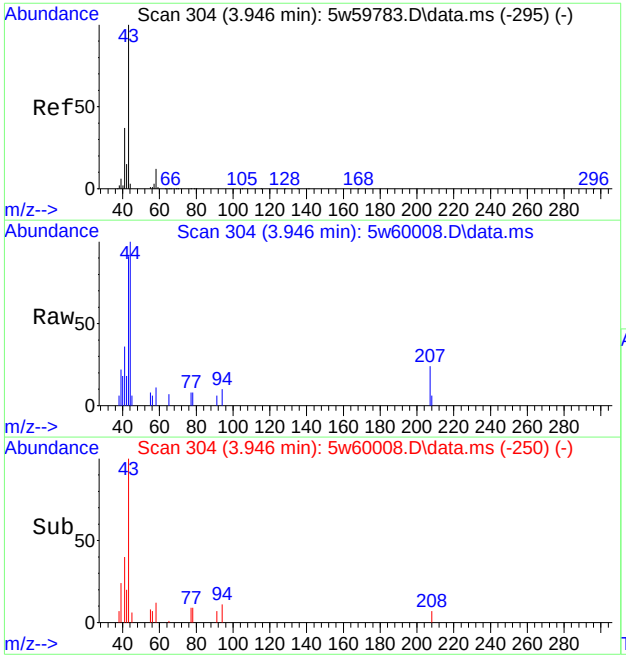


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.12 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 65 Resp: 13929

Ion	Ratio	Lower	Upper
65	100		
85	14.8	11.5	21.3
45	22.0	14.0	26.0

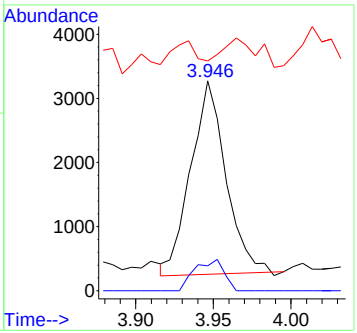


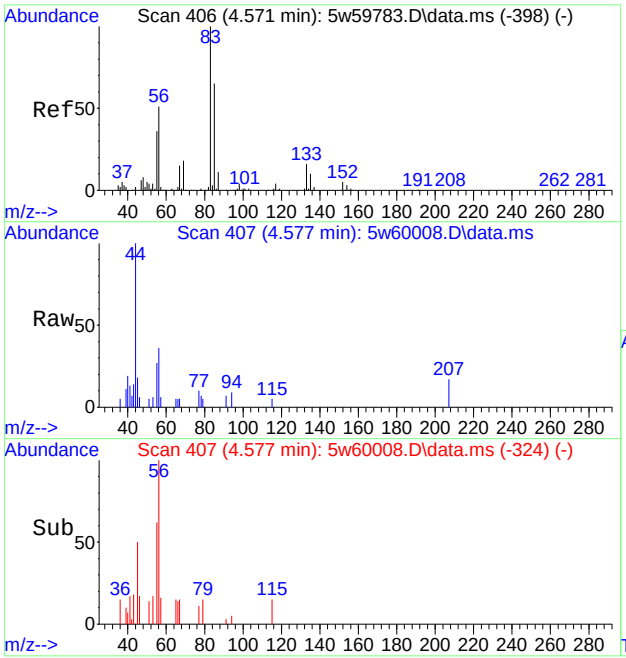


#13
n-BUTANE
Concen: 0.10 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 4731

Ion	Ratio	Lower	Upper
43	100		
58	13.4	0.0	42.6
44	13.1	0.0	34.9

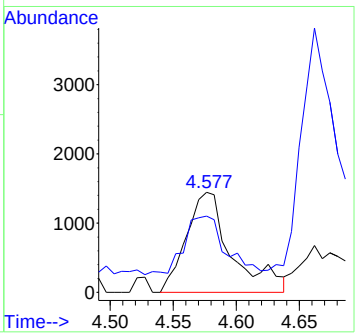


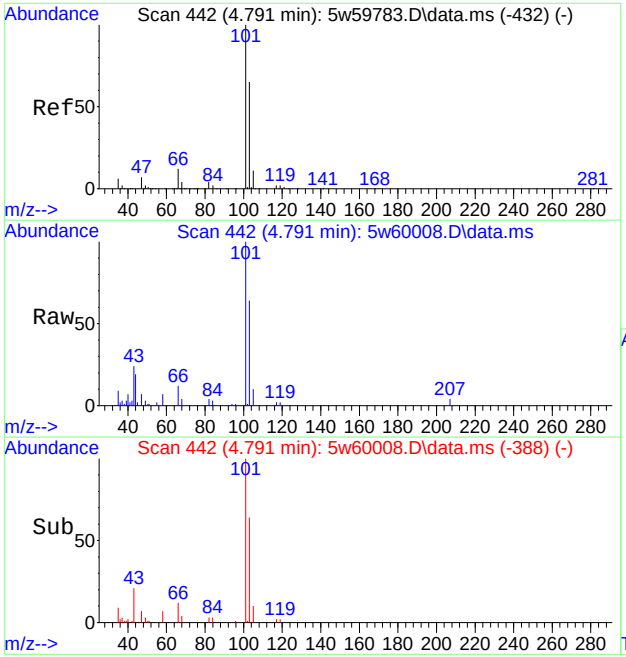


#18
ACROLEIN
Concen: 0.24 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 56 Resp: 3620

Ion	Ratio	Lower	Upper
56	100		
55	50.0	46.6	86.6

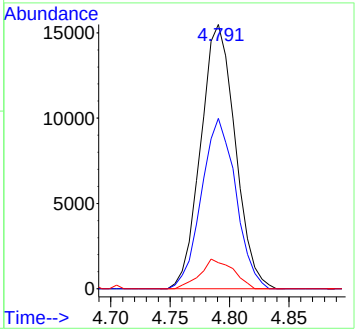


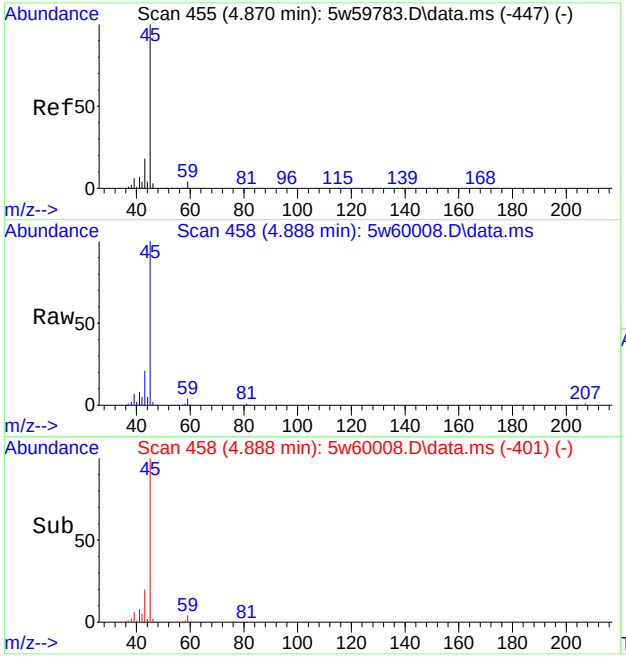


#21
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:101 Resp: 31215

Ion	Ratio	Lower	Upper
101	100		
103	64.1	35.0	95.0
105	10.8	0.0	40.7

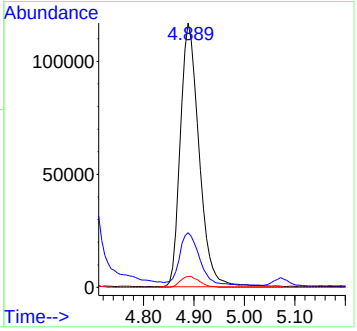


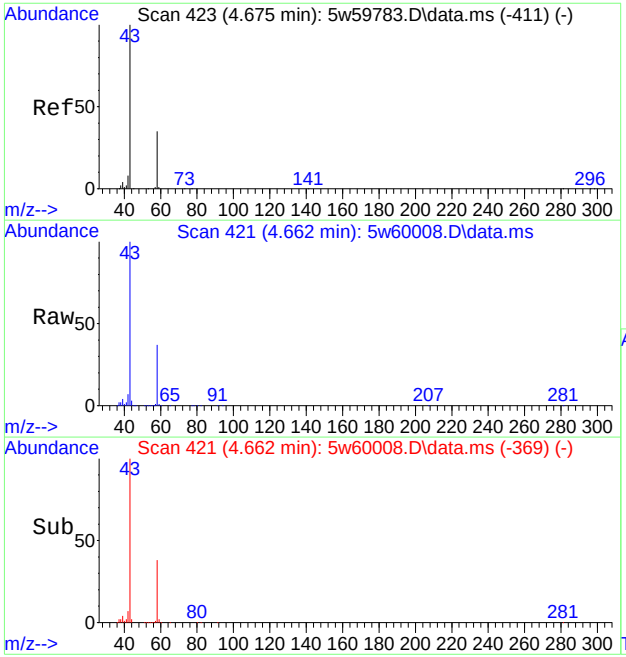


#22
ISOPROPYL ALCOHOL
Concen: 3.13 PPBV
RT: 4.888 min Scan# 458
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 300854

Ion	Ratio	Lower	Upper
45	100		
43	20.7	0.0	47.8
59	4.1	0.0	34.1

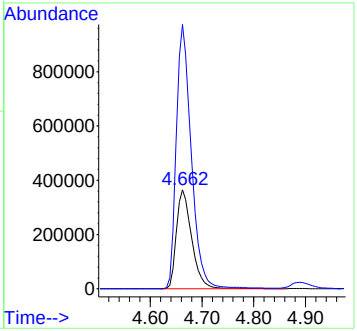


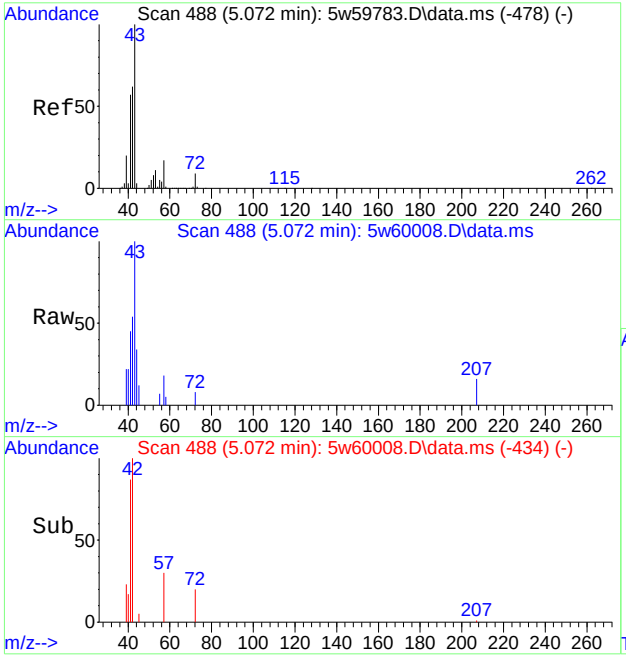


#23
ACETONE
Concen: 39.16 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 58 Resp: 752725

Ion	Ratio	Lower	Upper
58	100		
43	261.3	252.3	312.3

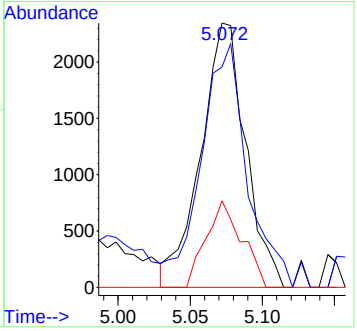


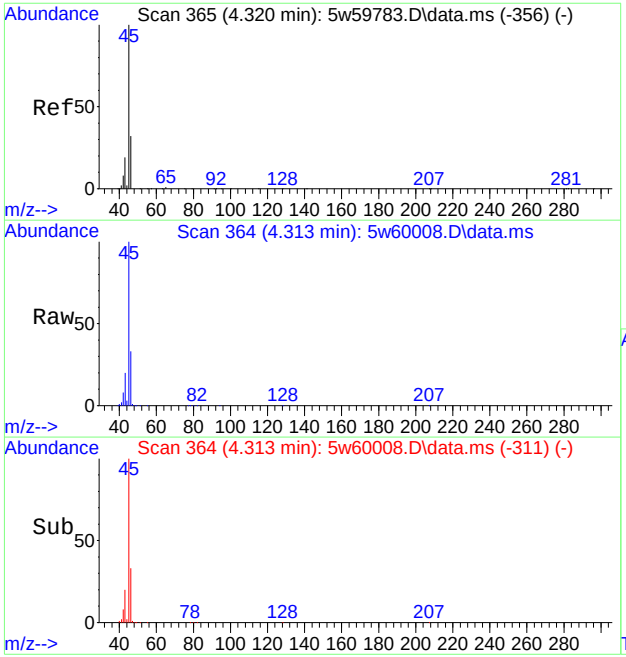


#24
PENTANE
Concen: 0.10 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 42 Resp: 5091

Ion	Ratio	Lower	Upper
42	100		
41	93.8	62.3	122.3
57	26.0	0.0	57.7

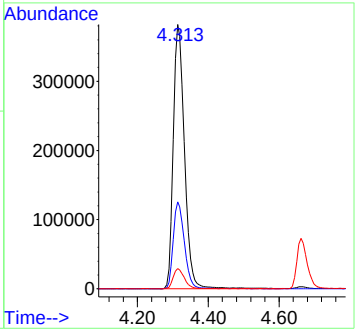


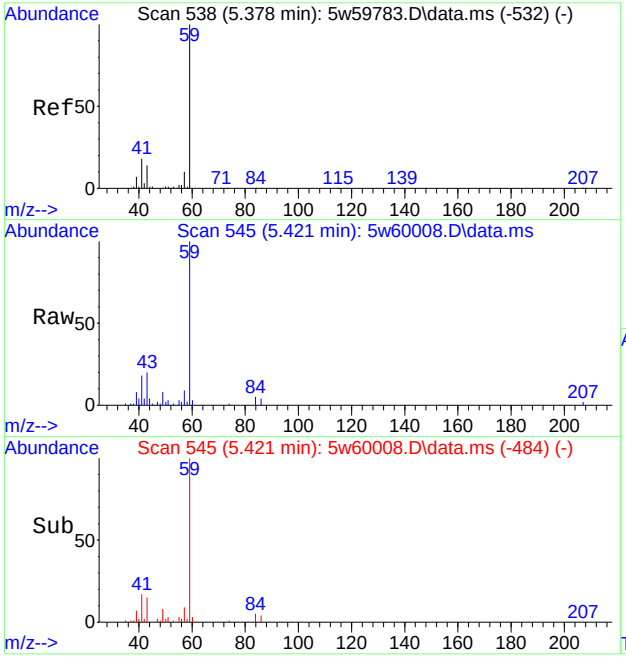


#28
ETHANOL
Concen: 52.34 PPBV
RT: 4.313 min Scan# 364
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 842689

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	7.8	0.0	38.5

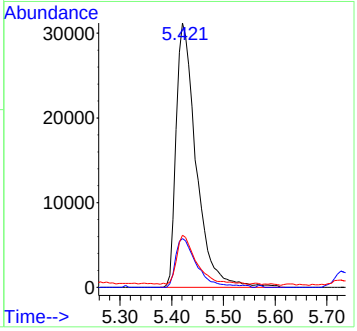


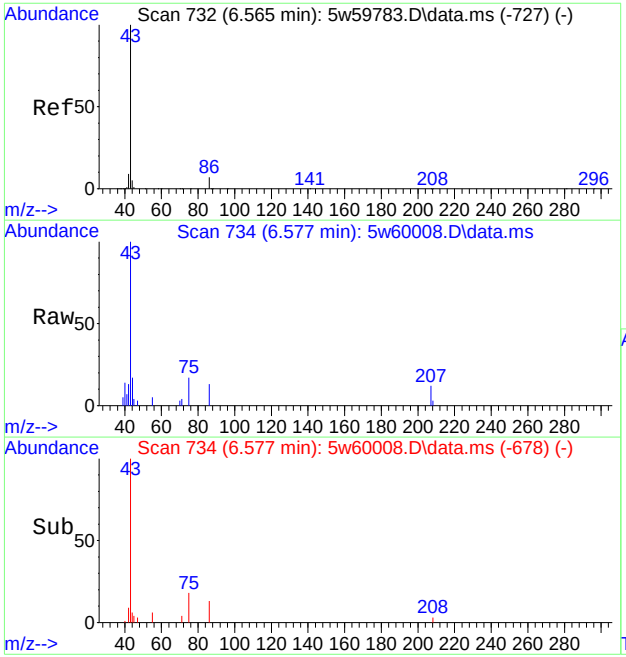


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.86 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 59 Resp: 84382

Ion	Ratio	Lower	Upper
59	100		
41	19.7	0.0	49.3
43	18.9	0.0	44.1

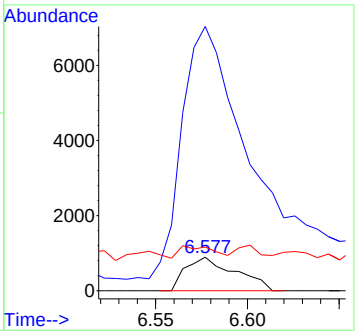


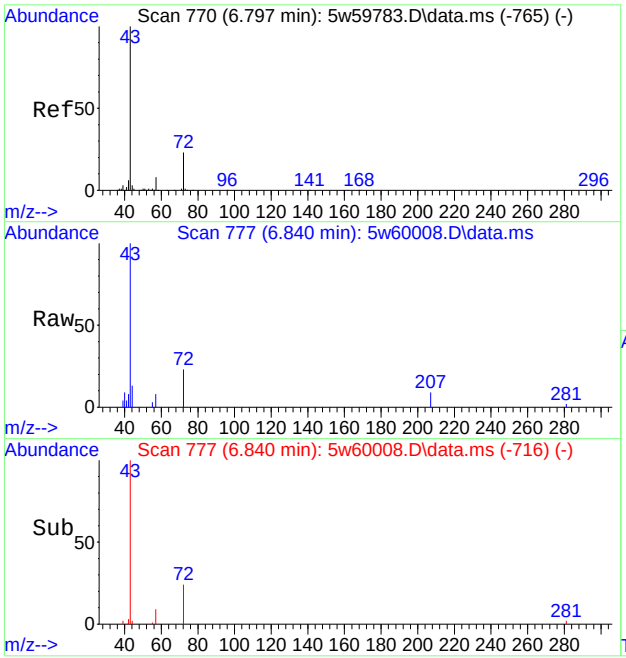


#39
VINYL ACETATE
Concen: 0.21 PPBV
RT: 6.577 min Scan# 734
Delta R.T. 0.012 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 86 Resp: 1682

Ion	Ratio	Lower	Upper
86	100		
43	1459.6	1379.7	1439.7#
44	24.5	36.9	96.9#

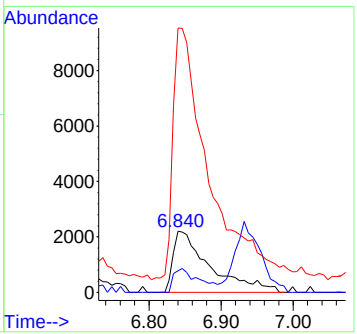


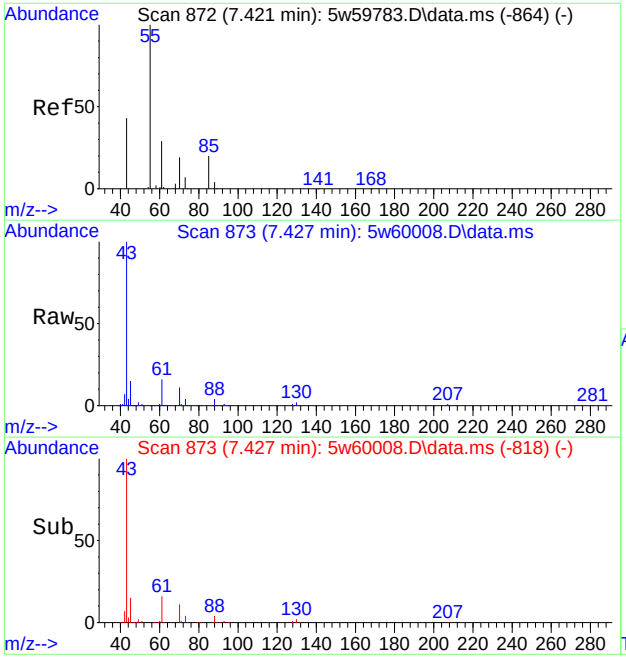


#41
METHYL ETHYL KETONE
Concen: 0.42 PPBV
RT: 6.840 min Scan# 777
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 72 Resp: 7867

Ion	Ratio	Lower	Upper
72	100		
57	35.4	4.8	64.8
43	431.7	415.9	475.9

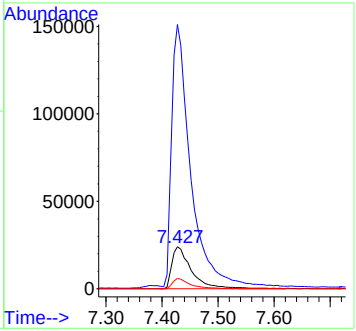


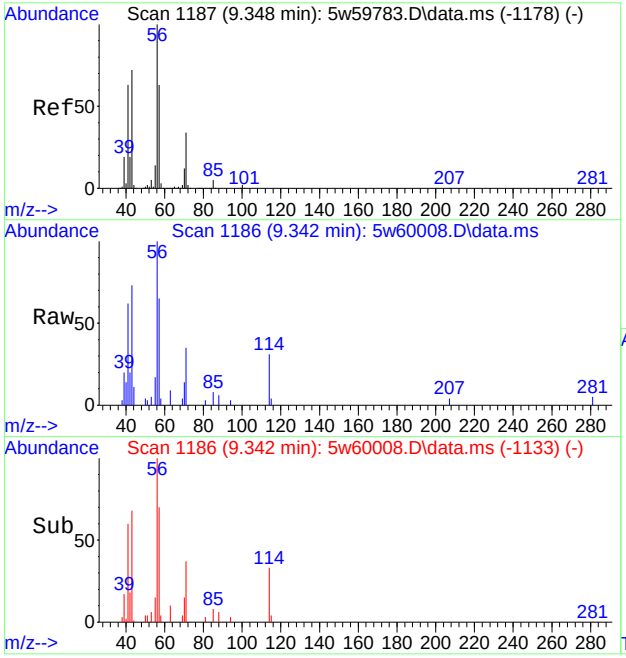


#44
ETHYL ACETATE
Concen: 4.07 PPBV
RT: 7.427 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 61 Resp: 58928

Ion	Ratio	Lower	Upper
61	100		
43	606.5	560.5	620.5
88	22.1	4.5	64.5

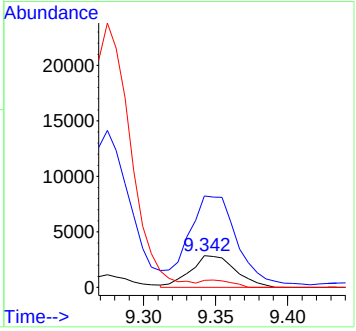


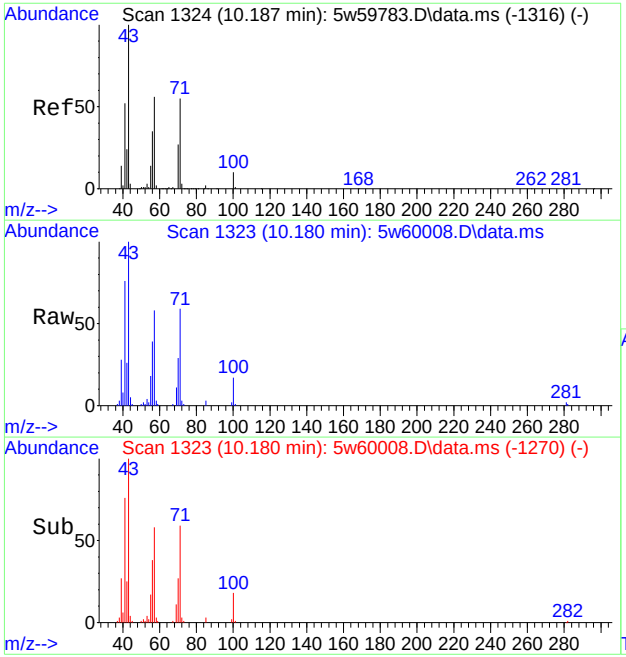


#54
2,3-DIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 71 Resp: 6241

Ion	Ratio	Lower	Upper
71	100		
56	306.2	264.6	324.6
85	0.0	0.0	45.3

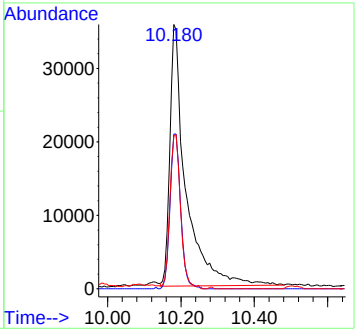


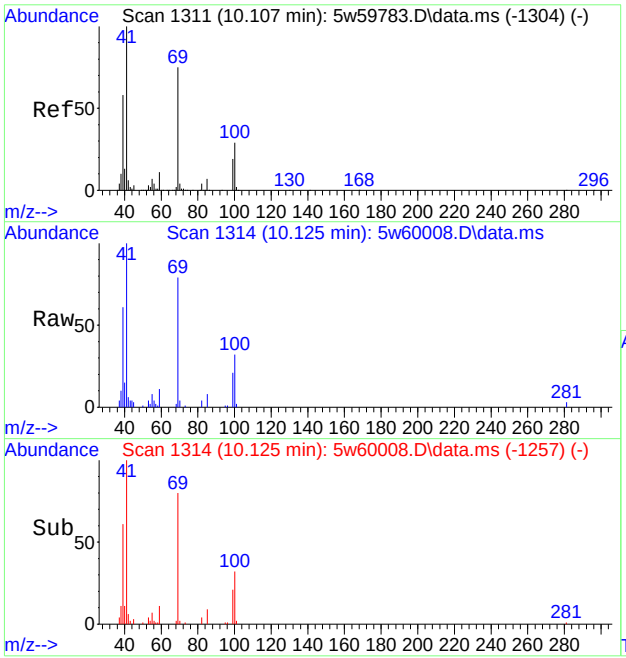


#62
HEPTANE
Concen: 1.28 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 107980

Ion	Ratio	Lower	Upper
43	100		
71	39.3	24.5	84.5
57	39.6	26.2	86.2

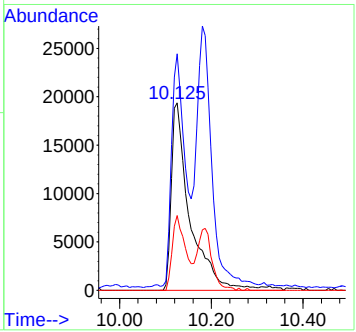


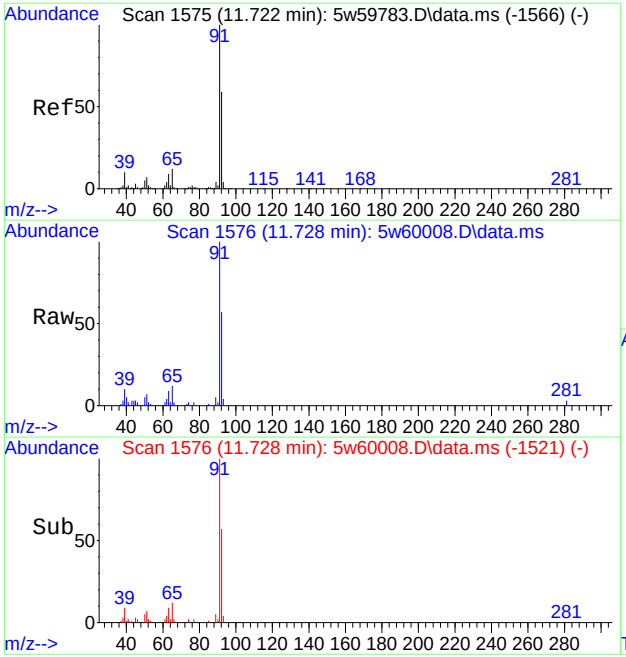


#63
METHYL METHACRYLATE
Concen: 1.15 PPBV
RT: 10.125 min Scan# 1314
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 69 Resp: 55112

Ion	Ratio	Lower	Upper
69	100		
41	90.0	95.3	155.3#
100	29.5	6.3	66.3

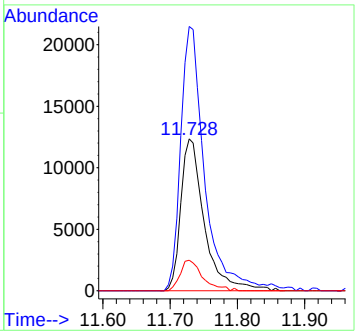


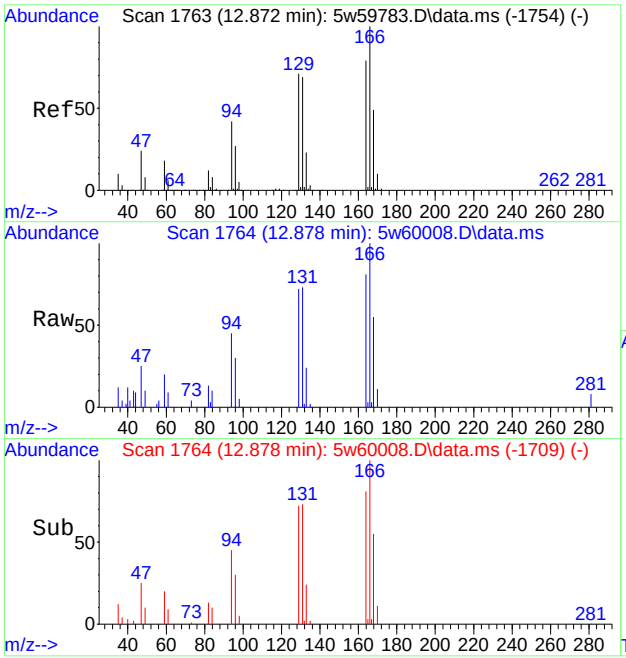


#66
TOLUENE
Concen: 0.28 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 92 Resp: 30163

Ion	Ratio	Lower	Upper
92	100		
91	177.8	140.1	200.1
65	19.2	0.0	53.1

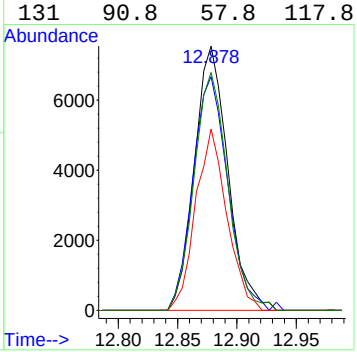


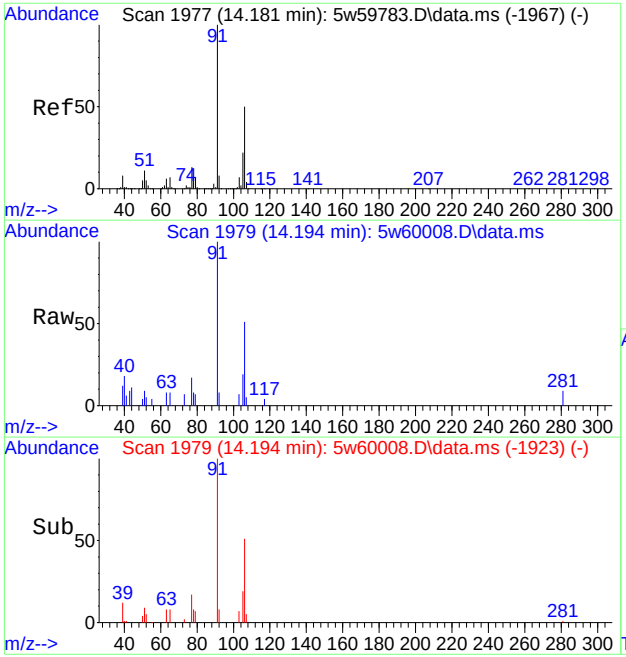


#73
TETRACHLOROETHYLENE
Concen: 0.20 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:164 Resp: 14795

Ion	Ratio	Lower	Upper
164	100		
129	92.6	59.7	119.7
168	64.1	32.2	92.2
131	90.8	57.8	117.8

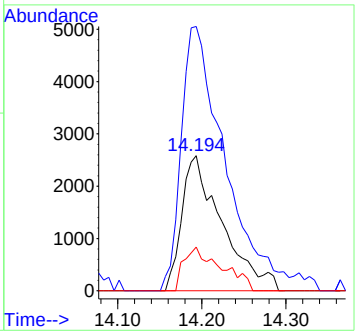




#80
m,p-XYLENE
Concen: 0.10 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:106 Resp: 8586

Ion	Ratio	Lower	Upper
106	100		
91	195.5	171.0	231.0
77	32.4	0.0	56.7



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18777.D
Acq On : 24 Nov 2025 7:27 pm
Operator : williamc
Sample : je23787-3dup Inst : MS7W
Misc : MS99437,v7w655,100,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:30:59 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

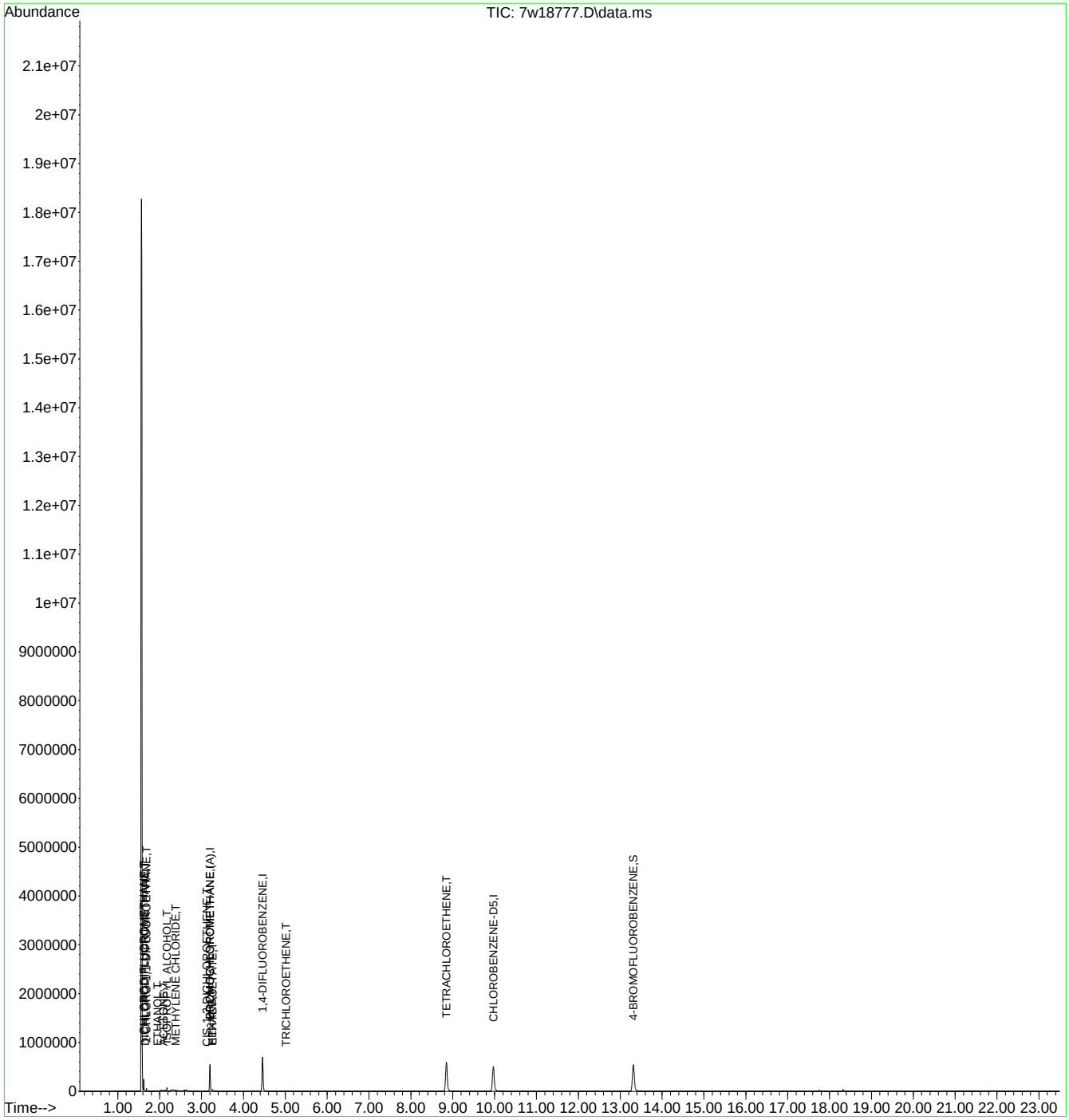
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.200	128	115035	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.457	114	554330	10.00	PPBV	0.01
76) CHLOROBENZENE-D5	9.971	117	518508	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.200	128	115035	10.00	PPBV	# 0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	382402	9.16	PPBV	0.00
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	1.621	67	20822	6.6619	PPBV	91
6) DICHLORODIFLUOROMETHANE	1.647	85	3112	0.1130	PPBV	95
8) 1-CHLORO-1,1-DIFLUOROE...	1.685	65	24986	1.0194	PPBV	96
22) ISOPROPYL ALCOHOL	2.171	45	9664	0.3811	PPBV #	80
23) ACETONE	2.087	58	3853	0.5558	PPBV	65
28) ETHANOL	1.946	45	6715	0.9948	PPBV	98
31) METHYLENE CHLORIDE	2.377	84	1518	0.1358	PPBV	92
38) HEXANE	3.248	57	2494	0.1037	PPBV	84
42) CIS-1,2-DICHLOROETHENE	3.123	96	1421	0.1092	PPBV	90
44) ETHYL ACETATE	3.264	61	4752	1.0311	PPBV #	1
55) TRICHLOROETHENE	5.020	95	3253	0.1882	PPBV	87
72) TETRACHLOROETHENE	8.846	164	223192	13.9019	PPBV	98

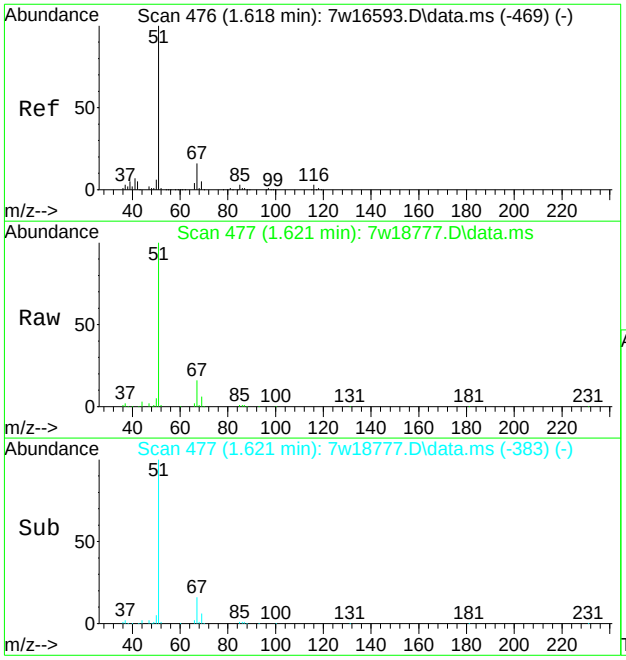
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18777.D
Acq On : 24 Nov 2025 7:27 pm
Operator : williamc
Sample : je23787-3dup Inst : MS7W
Misc : MS99437,v7w655,100,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:30:59 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

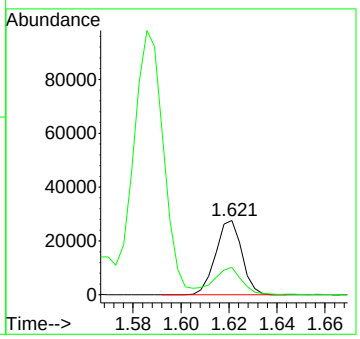


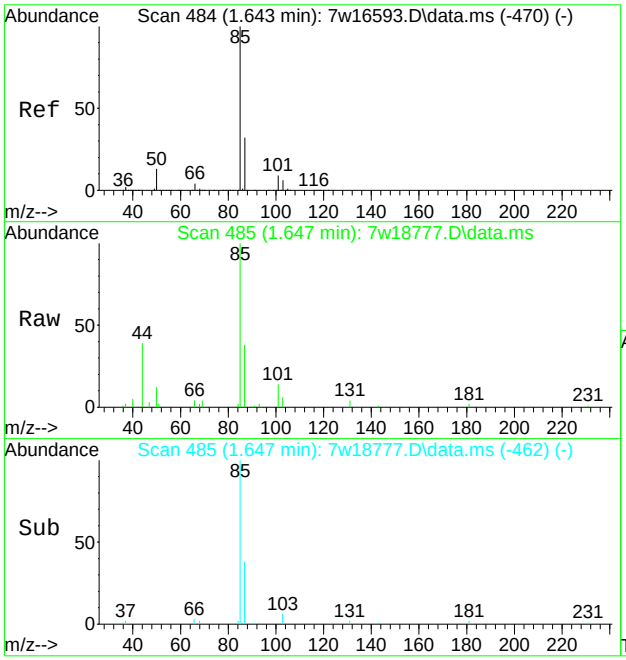


#4
CHLORODIFLUOROMETHANE
Concen: 6.6619 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 67 Resp: 20822

Ion	Ratio	Lower	Upper
67	100		
69	41.3	25.3	47.1

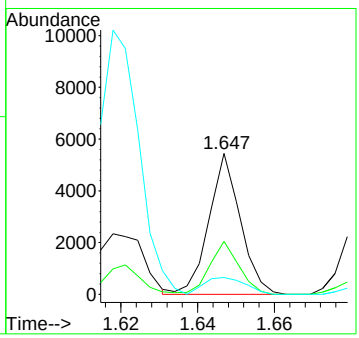


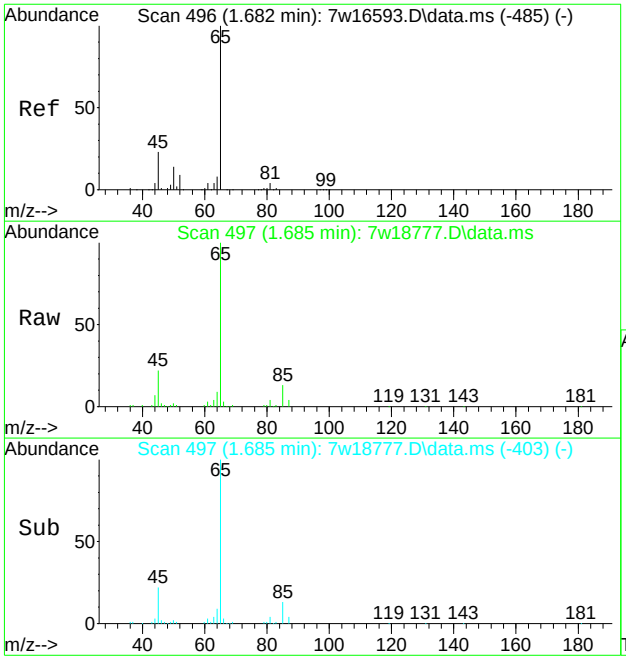


#6
DICHLORODIFLUOROMETHANE
Concen: 0.1130 PPBV
RT: 1.647 min Scan# 485
Delta R.T. 0.004 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 85 Resp: 3112

Ion	Ratio	Lower	Upper
85	100		
87	34.4	23.0	42.6
50	15.8	13.5	25.1

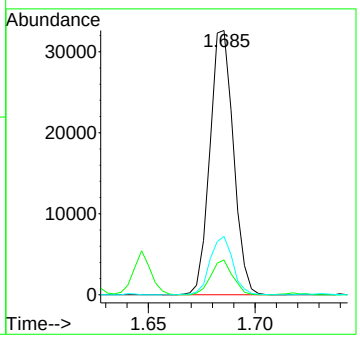


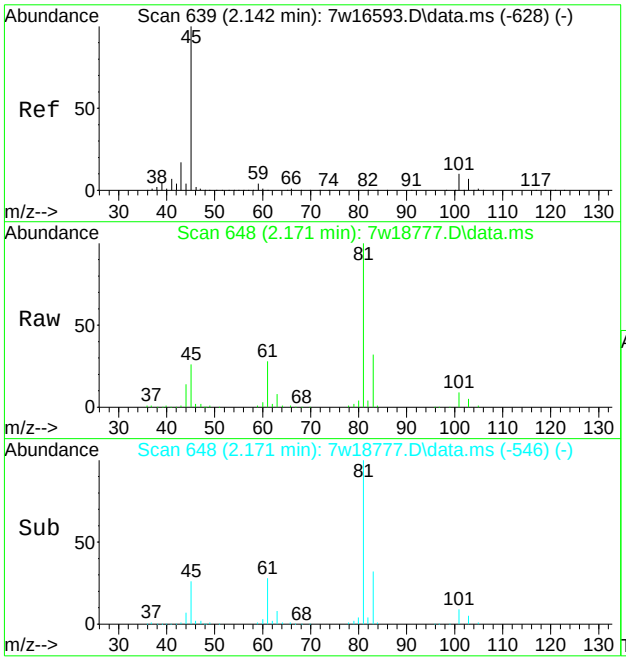


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 1.0194 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.003 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 65 Resp: 24986

Ion	Ratio	Lower	Upper
65	100		
85	12.3	9.4	17.4
45	21.4	16.9	31.3

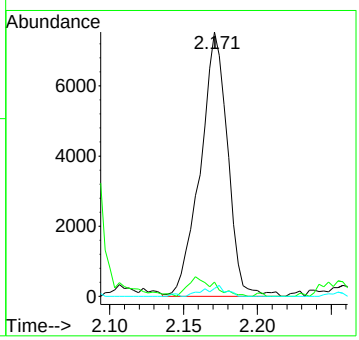


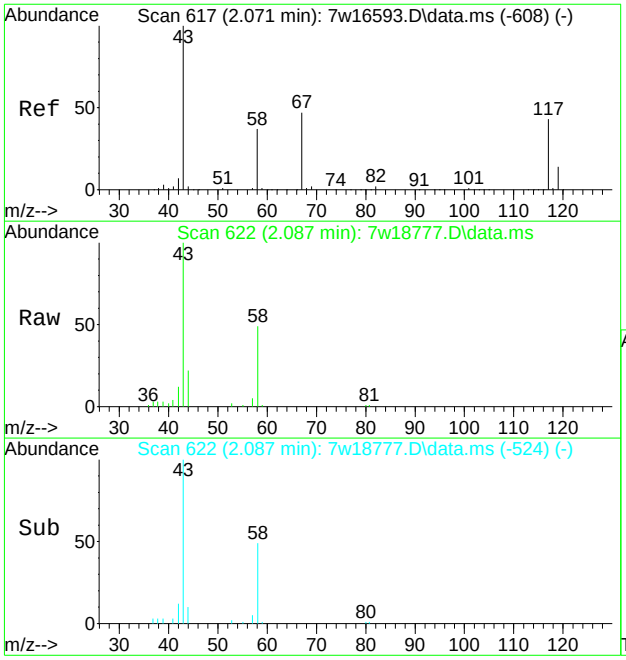


#22
ISOPROPYL ALCOHOL
Concen: 0.3811 PPBV
RT: 2.171 min Scan# 648
Delta R.T. 0.029 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 45 Resp: 9664

Ion	Ratio	Lower	Upper
45	100		
43	7.0	12.5	23.3#
59	3.4	3.1	5.7

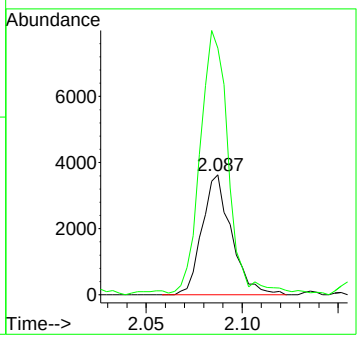


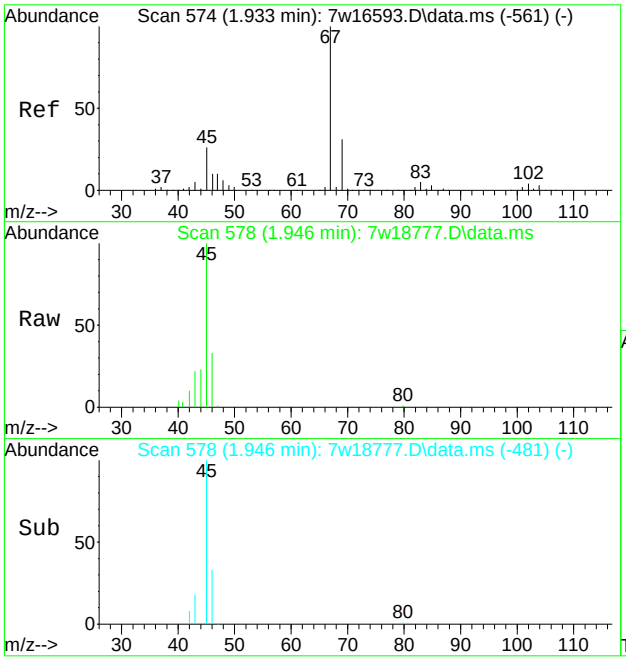


#23
ACETONE
Concen: 0.5558 PPBV
RT: 2.087 min Scan# 622
Delta R.T. 0.016 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 58 Resp: 3853

Ion	Ratio	Lower	Upper
58	100		
43	218.3	198.6	368.8

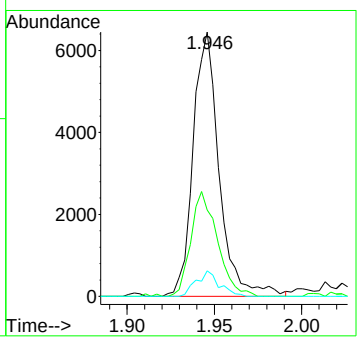


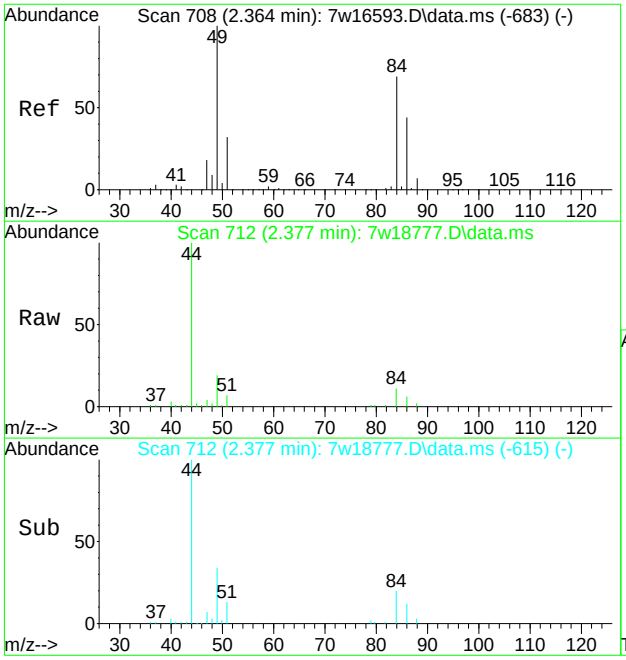


#28
ETHANOL
Concen: 0.9948 PPBV
RT: 1.946 min Scan# 578
Delta R.T. 0.013 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 45 Resp: 6715

Ion	Ratio	Lower	Upper
45	100		
46	40.5	29.0	53.9
42	8.5	5.7	10.5

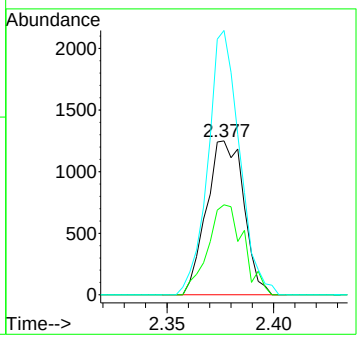


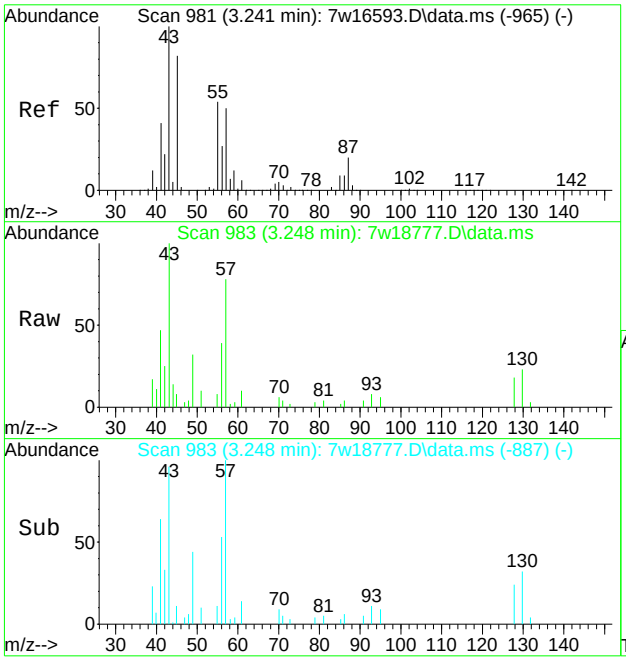


#31
METHYLENE CHLORIDE
Concen: 0.1358 PPBV
RT: 2.377 min Scan# 712
Delta R.T. 0.013 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 84 Resp: 1518

Ion	Ratio	Lower	Upper
84	100		
86	56.1	44.3	82.3
49	145.8	109.5	203.3

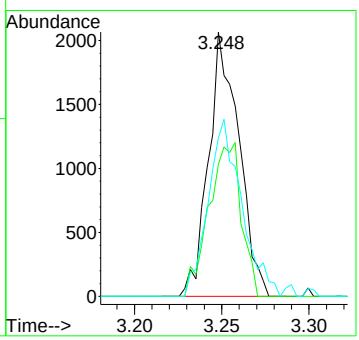


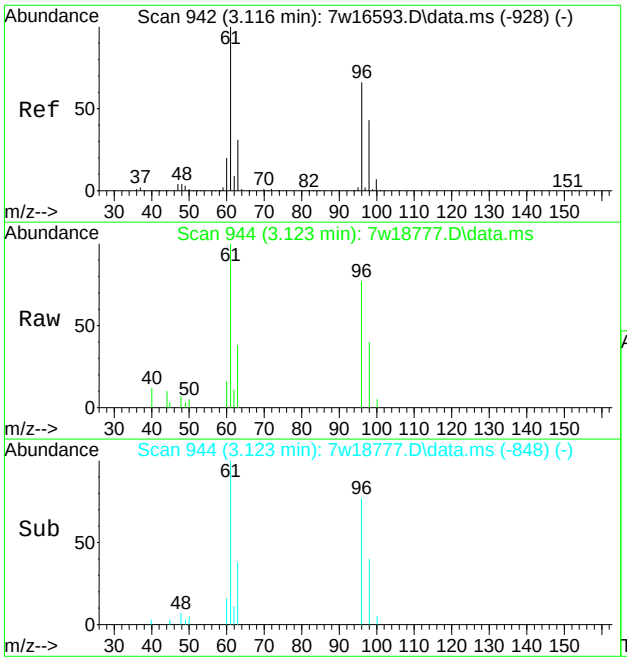


#38
HEXANE
Concen: 0.1037 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.010 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 57 Resp: 2494

Ion	Ratio	Lower	Upper
57	100		
56	62.1	38.0	70.6
41	76.0	65.9	122.5

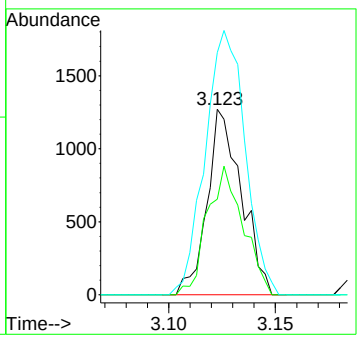


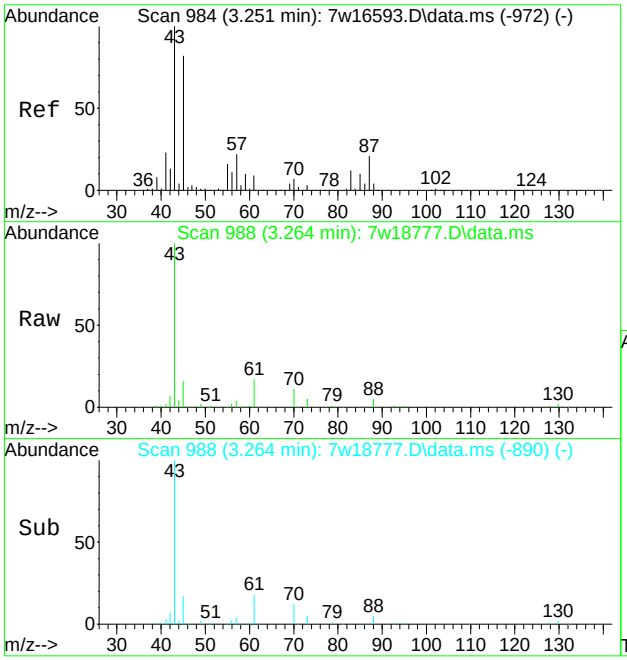


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.1092 PPBV
RT: 3.123 min Scan# 944
Delta R.T. 0.010 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 96 Resp: 1421

Ion	Ratio	Lower	Upper
96	100		
98	72.6	44.7	83.1
61	166.4	107.3	199.3

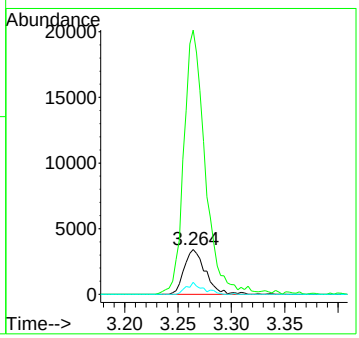


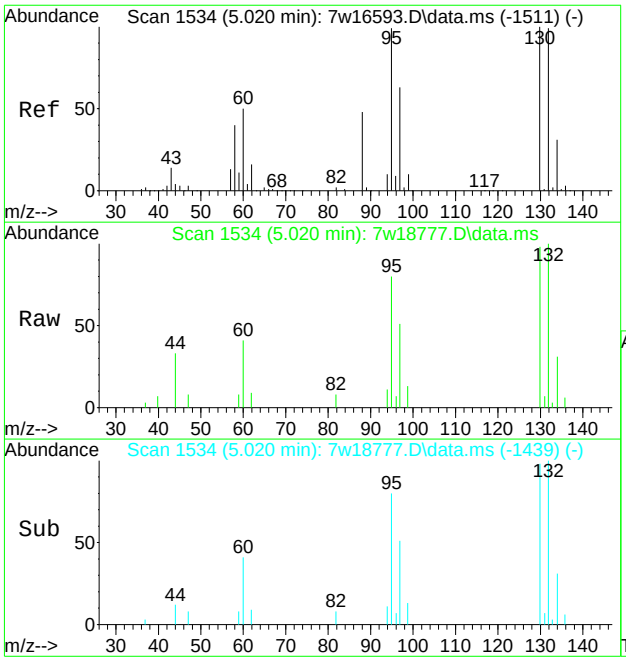


#44
ETHYL ACETATE
Concen: 1.0311 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.016 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 61 Resp: 4752

Ion	Ratio	Lower	Upper
61	100		
43	599.1	955.4	1774.4#
88	20.7	27.6	51.2#

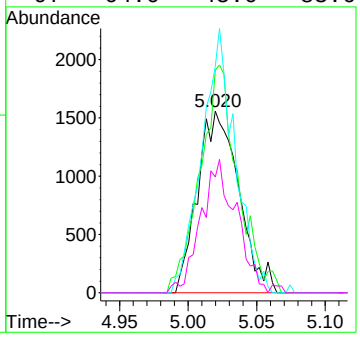


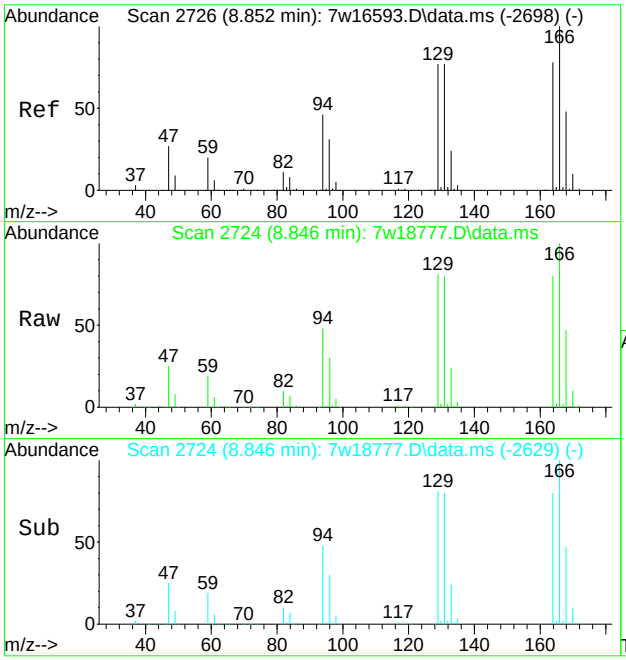


#55
TRICHLOROETHENE
Concen: 0.1882 PPBV
RT: 5.020 min Scan# 1534
Delta R.T. 0.007 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 95 Resp: 3253

Ion	Ratio	Lower	Upper
95	100		
130	114.7	69.4	129.0
132	117.8	69.4	128.8
97	64.0	45.0	83.6

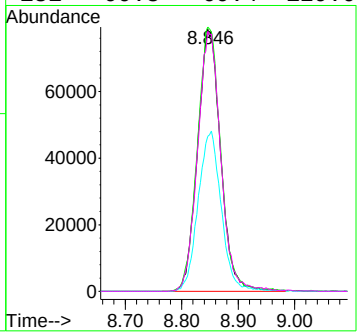




#72
TETRACHLOROETHENE
Concen: 13.9019 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.004 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion:164 Resp: 223192

Ion	Ratio	Lower	Upper
164	100		
129	102.7	69.6	129.2
168	61.1	42.5	78.9
131	99.8	69.4	129.0



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

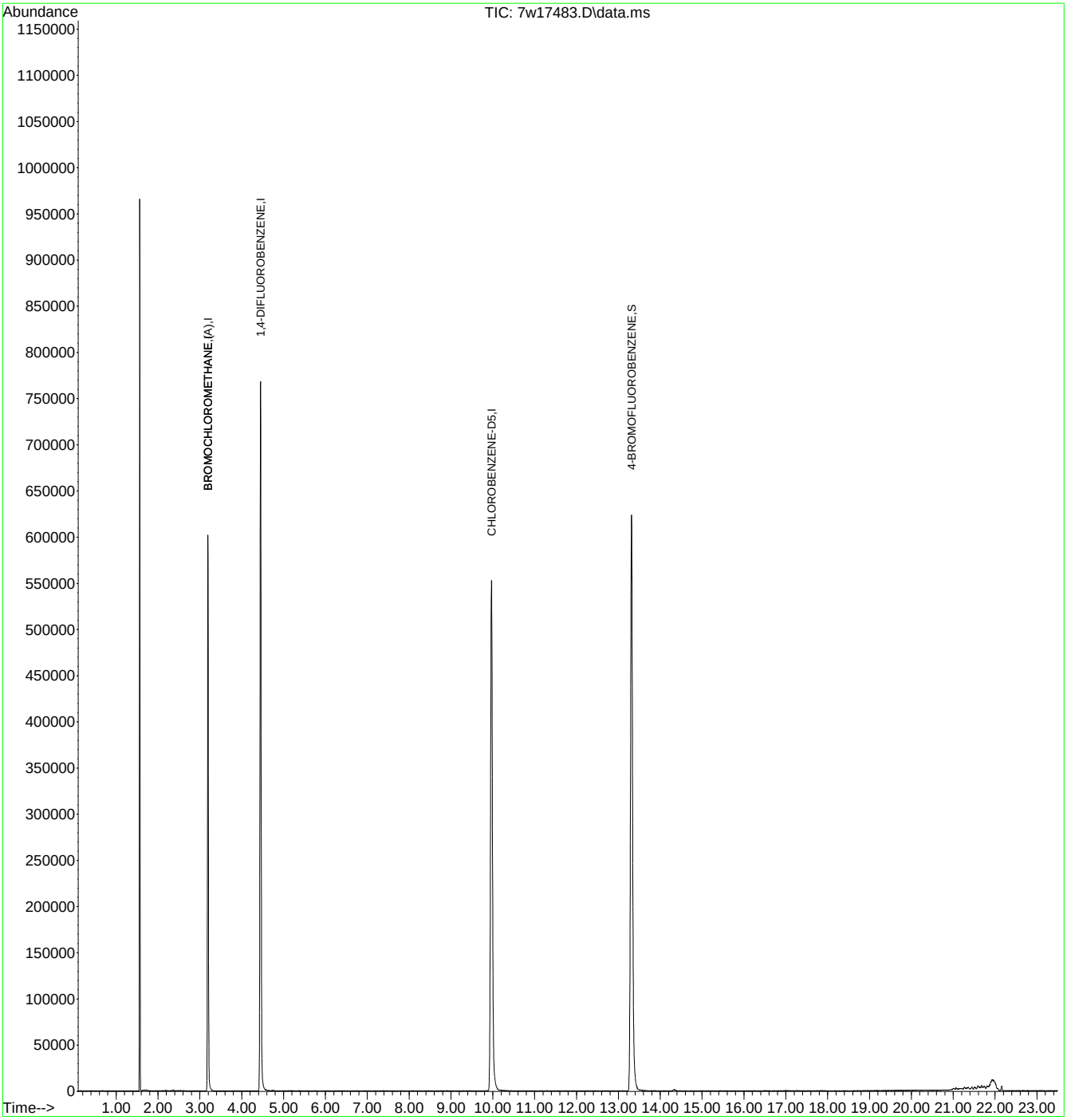
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	122841	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	609530	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	568575	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	122841	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	430277	9.40	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

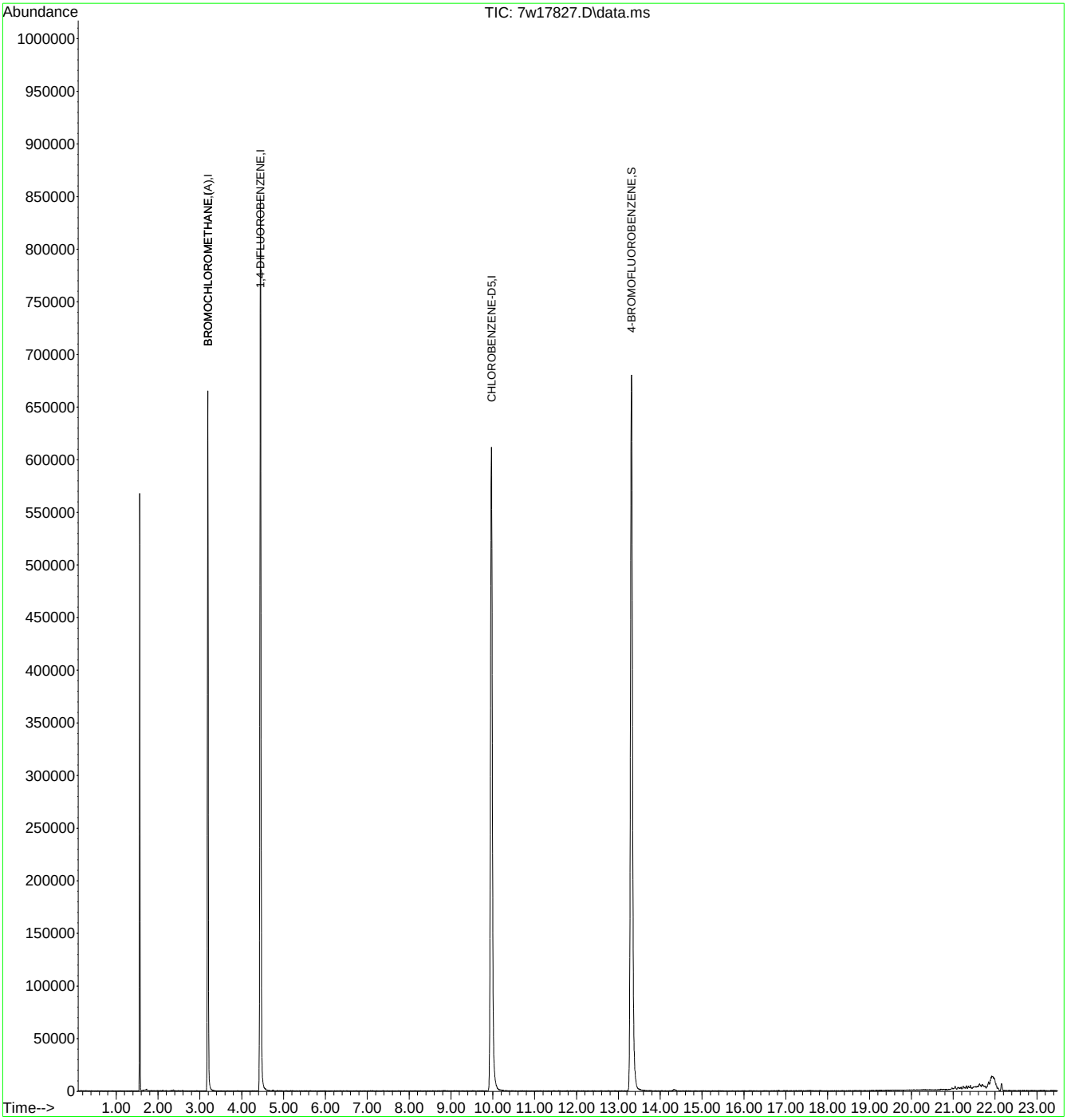
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	133491	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659279	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	611978	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133491	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	469303	9.52	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

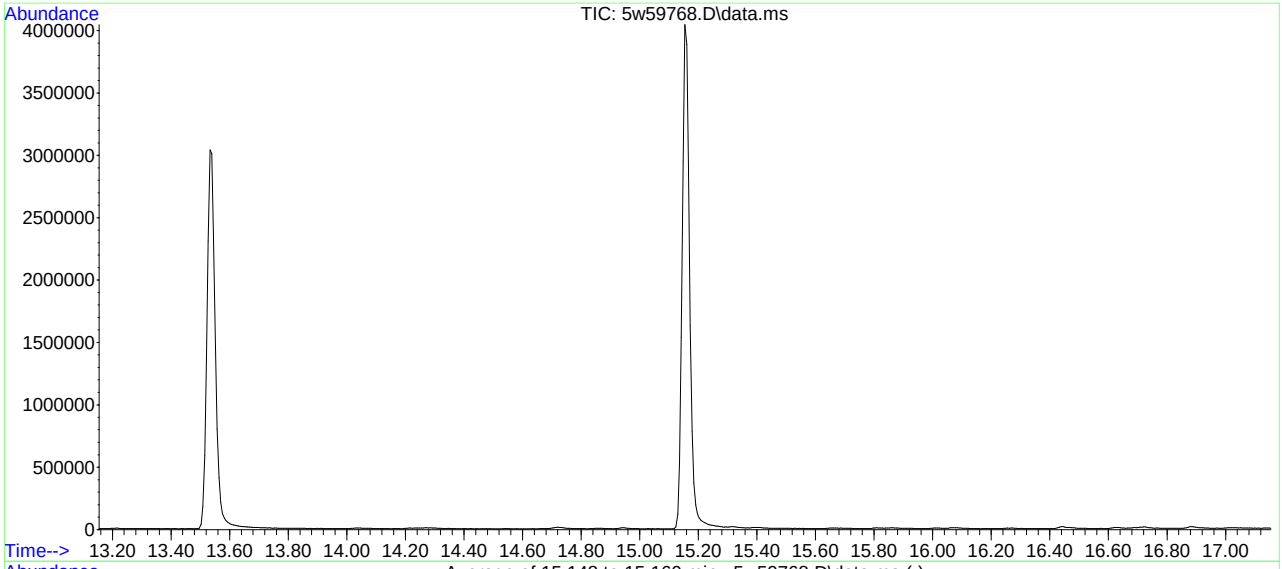
Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



BFB

Data File : C:\msdchem\1\data\5w\5w59768.D Vial: 2
Acq On : 6 Nov 2025 9:59 pm Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5wBFB.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	135749	PASS
75	95	30	66	46.4	334528	PASS
95	95	100	100	100.0	720341	PASS
96	95	5	9	6.9	49469	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.0	662677	PASS
175	174	4	9	7.8	51795	PASS
176	174	93	101	99.2	657579	PASS
177	176	5	9	6.9	45267	PASS

5w59768.D M5wBFB.M Fri Nov 07 21:29:07 2025

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	5545	48.00	3946	61.05	32339	74.05	112597
37.10	30280	49.05	27840	62.10	32435	75.05	334528
38.10	26987	50.10	135749	63.10	24125	76.10	29141
39.10	10667	51.05	41606	64.05	2305	77.00	4066
40.00	348	52.05	1737	67.05	1826	78.00	3098
41.05	175	55.05	2016	68.00	72219	78.90	24720
43.00	450	56.05	10826	69.00	70581	80.00	6986
44.00	3502	57.05	20024	70.00	5326	80.90	25387
45.10	6092	58.05	889	71.10	296	81.95	5504
46.05	426	59.10	145	72.05	3398	82.95	490
47.10	8871	60.00	6445	73.00	28839	86.05	874

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	35085	104.90	1175	118.90	3821	133.90	92
88.00	33645	105.95	3347	121.90	77	134.95	1334
90.95	2907	106.95	762	123.00	102	135.95	160
92.00	19285	109.95	420	123.90	511	136.90	1385
93.00	29085	110.95	751	124.95	264	138.95	431
94.00	80680	111.95	485	125.90	315	139.90	588
95.05	720341	112.90	723	126.95	311	141.00	7227
96.05	49469	114.95	770	127.95	2733	141.90	954
97.05	1483	115.90	2767	128.95	1406	143.00	7195
102.90	330	116.95	4700	129.90	2746	143.95	411
103.95	3663	117.90	2744	130.90	1002	144.95	616

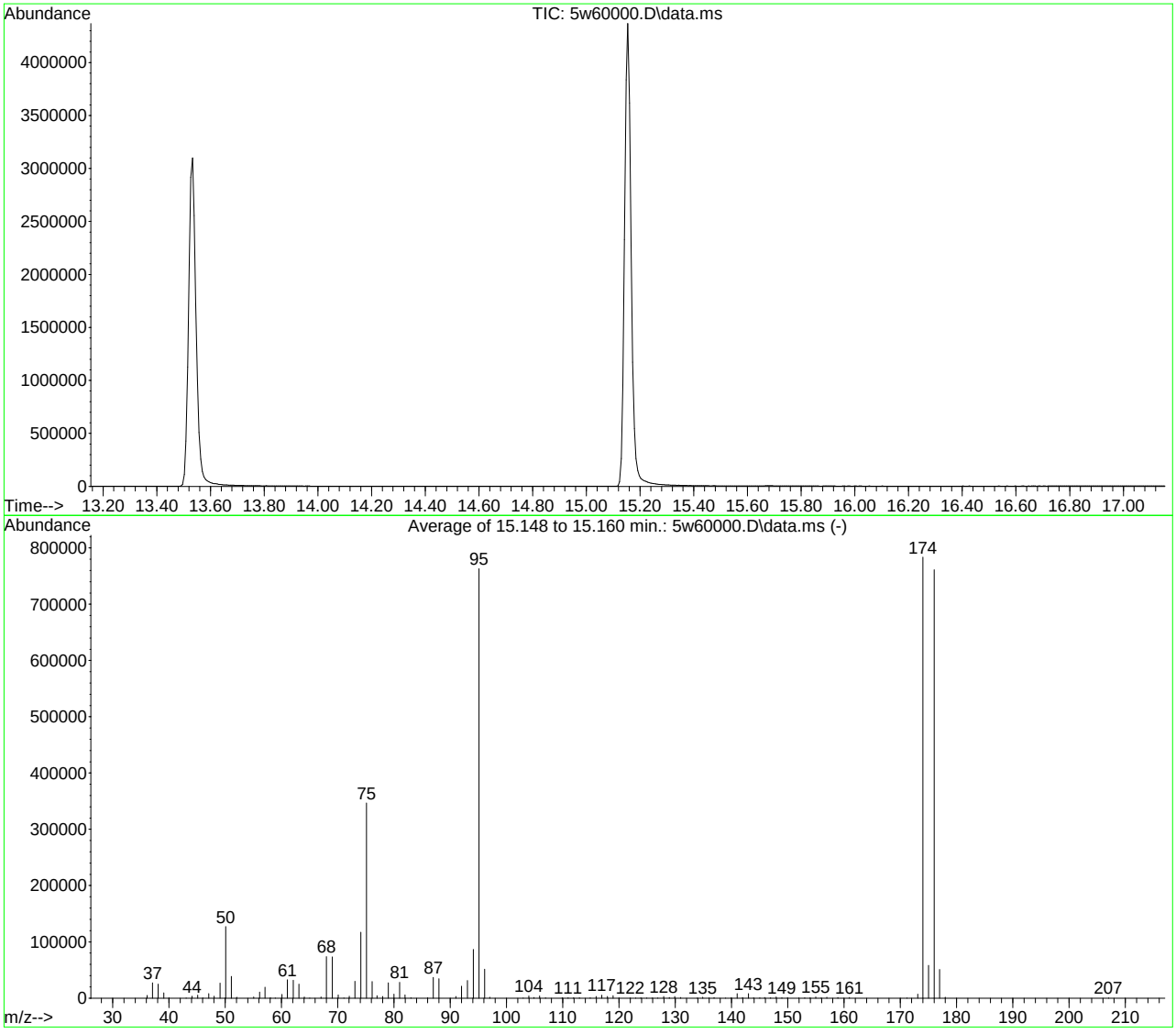
Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.90	1065	158.00	77	177.95	1268		
146.95	543	158.90	800	207.00	73		
147.95	1676	160.95	830	262.10	64		
148.95	564	168.05	273	267.00	88		
149.90	853	169.15	140	296.00	119		
151.90	371	170.10	70				
152.95	529	170.95	154				
153.95	452	174.00	662677				
154.95	1955	175.00	51795				
155.90	102	176.00	657579				
156.95	1271	177.00	45267				

BFB

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60000.D Vial: 1
Acq On : 24 Nov 2025 9:12 am Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	126995	PASS
75	95	30	66	45.5	346987	PASS
95	95	100	100	100.0	763029	PASS
96	95	5	9	6.7	51400	PASS
173	174	0.00	2	0.9	6908	PASS
174	95	50	120	102.7	783595	PASS
175	174	4	9	7.4	58229	PASS
176	174	93	101	97.1	761195	PASS
177	176	5	9	6.7	50824	PASS

5w60000.D M5w2292.M Tue Nov 25 23:08:37 2025

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	4650	49.10	26525	62.10	31869	74.10	117019
37.10	27331	50.10	126995	63.10	24912	75.10	346987
38.10	24979	51.10	38837	64.05	2223	76.10	29517
39.10	9324	52.05	1658	65.00	241	77.00	4337
40.00	204	55.05	1920	67.05	1906	78.00	3156
43.05	281	56.10	10853	68.00	73867	79.00	27331
44.10	3527	57.10	19475	69.05	73197	80.00	7302
45.10	5492	58.05	758	70.10	5545	81.00	28117
46.05	417	58.90	105	71.10	91	81.95	5771
47.10	8187	60.10	6537	72.05	3589	83.00	606
48.05	3627	61.05	32525	73.05	29765	86.00	841

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	36965	104.90	1240	118.95	4253	130.95	1208
88.00	34704	105.90	3734	120.00	67	133.90	164
91.00	3137	106.95	790	122.00	69	134.90	1543
92.00	21184	109.90	548	122.95	268	136.00	273
93.05	31387	110.95	694	123.90	547	136.90	1399
94.10	86395	111.90	555	124.95	239	138.95	311
95.10	763029	112.95	714	125.95	349	139.95	560
96.10	51400	114.90	873	126.90	319	141.00	7918
97.05	1522	115.95	3019	127.95	3130	141.95	985
102.95	392	116.95	5208	128.95	1381	143.00	8168
103.95	3865	117.95	3230	129.90	3066	143.90	507

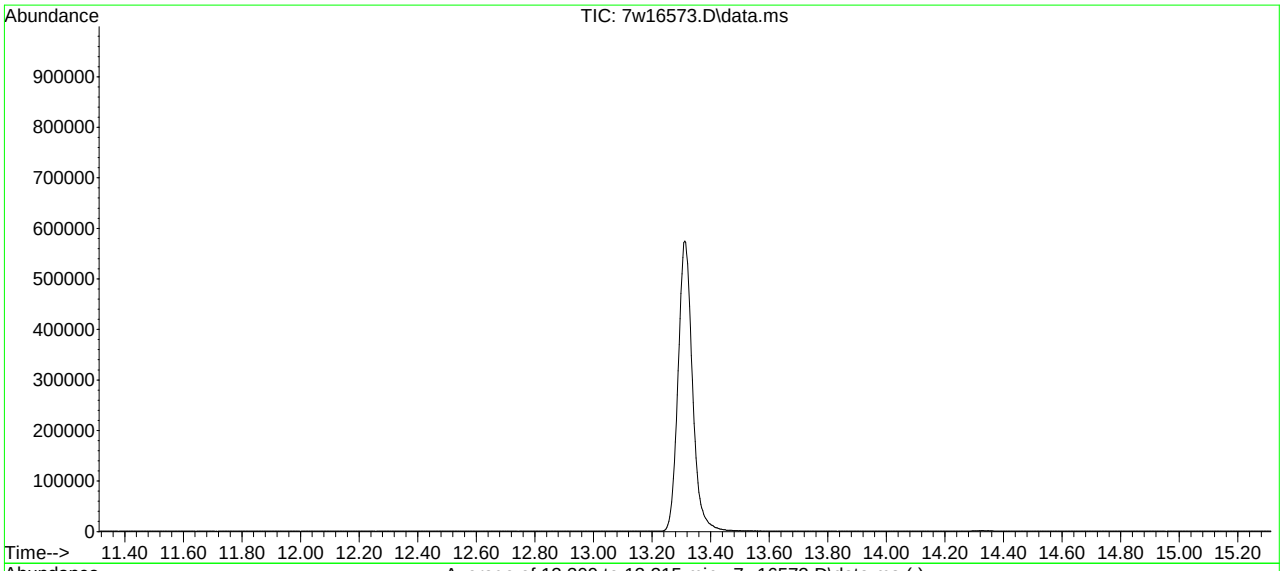
Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

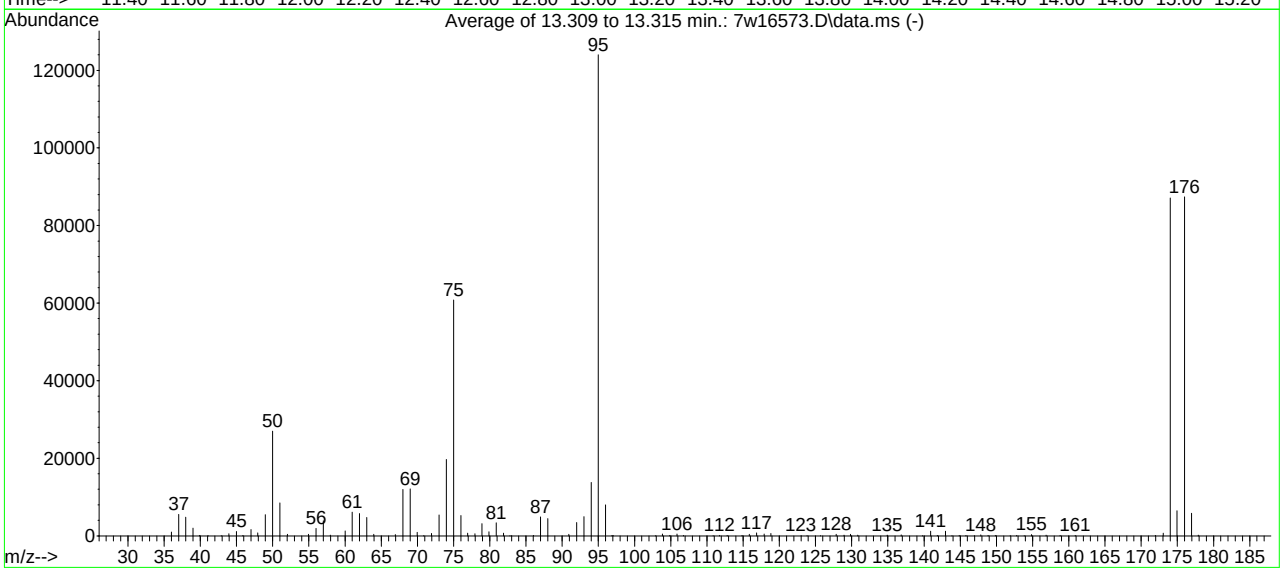
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.00	756	156.95	1491				
145.90	1168	158.90	960				
146.95	496	160.95	1022				
147.95	2087	171.20	121				
148.95	494	173.10	6908				
149.95	844	174.00	783595				
151.95	343	175.00	58229				
153.00	621	176.00	761195				
153.95	558	177.00	50824				
154.95	2182	178.00	1438				
155.95	294	207.00	83				

BFB

Data File : C:\msdchem\1\data\GCMS7W\7w16573.D Vial: 1
Acq On : 7 Aug 2025 2:05 am Operator: benk
Sample : bfb Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7wbfb.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.8	26979	PASS
75	95	30	66	49.0	60811	PASS
95	95	100	100	100.0	123992	PASS
96	95	5	9	6.4	7953	PASS
173	174	0.00	2	0.8	724	PASS
174	95	50	120	70.2	87088	PASS
175	174	4	9	7.5	6502	PASS
176	174	93	101	100.3	87355	PASS
177	176	5	9	6.7	5835	PASS

7w16573.D M7wbfb.M Thu Aug 07 19:41:55 2025

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1003	47.95	740	62.00	5766	75.00	60811
37.00	5547	49.00	5430	63.00	4750	76.00	5229
38.00	4772	50.00	26979	63.95	424	76.95	708
39.00	2026	51.00	8474	66.95	299	77.95	540
39.90	124	52.05	389	68.00	11924	78.90	3135
41.10	25	54.95	396	69.00	12070	79.90	1017
42.90	41	56.00	1901	69.95	941	80.90	3372
43.95	582	57.00	3847	70.85	48	81.90	685
45.00	1100	57.95	166	71.95	619	82.80	43
45.90	98	60.00	1293	73.00	5387	83.00	36
47.00	1625	61.00	6112	74.00	19688	86.05	112

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	4905	103.85	440	118.85	584	140.90	1229
88.00	4464	104.85	140	123.00	27	141.85	127
90.90	435	105.85	490	123.85	46	142.95	1190
92.00	3416	106.75	134	125.70	18	143.85	47
93.00	4959	110.85	68	127.85	413	144.85	107
94.00	13797	111.75	95	128.95	195	145.80	112
95.00	123992	112.80	80	129.85	393	146.95	49
96.00	7953	114.85	127	130.85	195	147.85	242
96.90	94	115.85	424	134.90	189	148.85	86
97.05	108	116.85	766	136.85	220	149.85	102
102.90	18	117.90	451	139.80	24	151.90	32

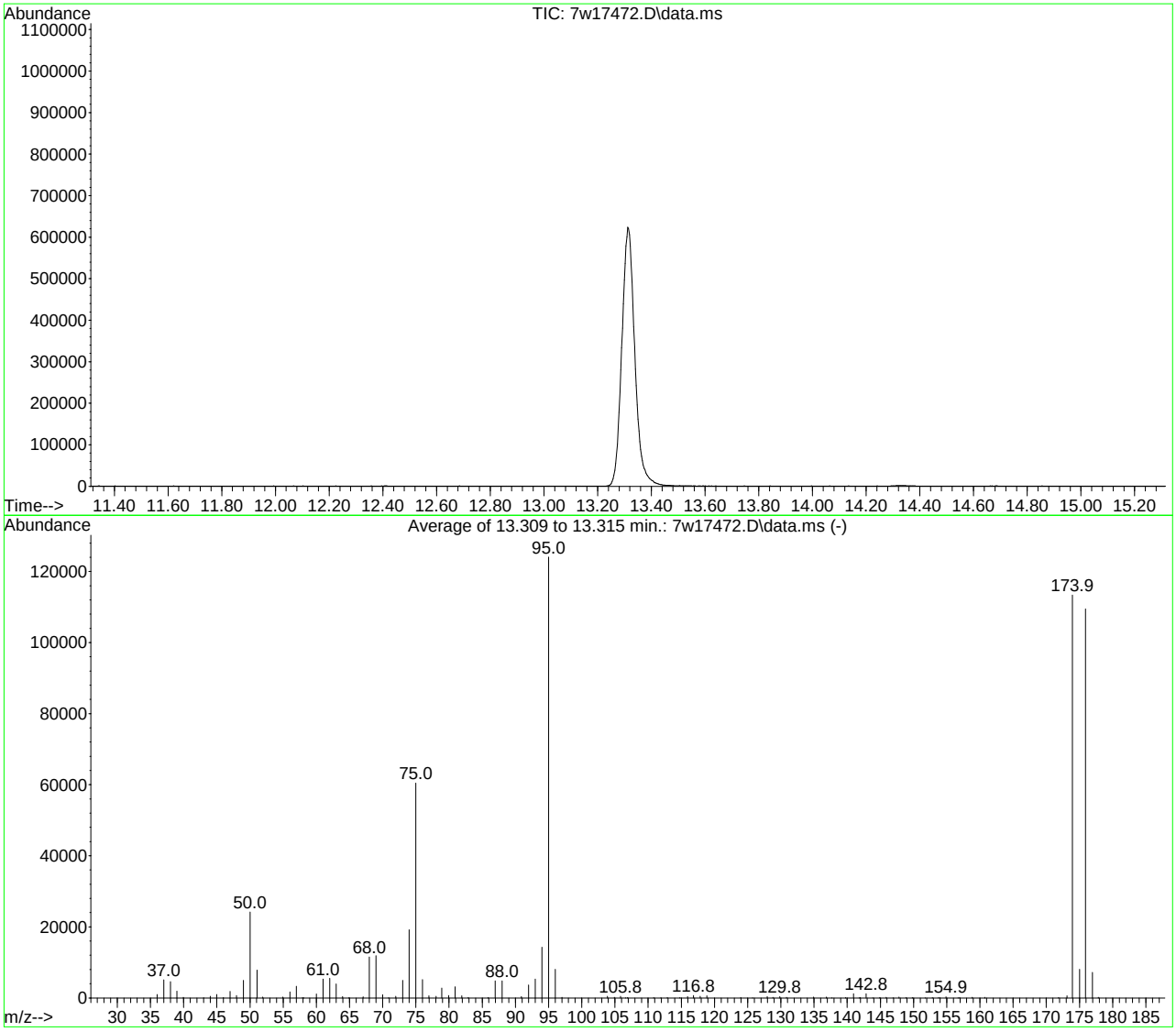
Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.80	91	176.95	5835				
153.85	70	177.90	218				
154.85	324						
156.85	216						
158.80	101						
160.90	114						
171.95	93						
173.05	724						
174.00	87088						
174.95	6502						
176.00	87355						

BFB

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17472.D Vial: 1
Acq On : 26 Sep 2025 10:25 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	24211	PASS
75	95	30	66	48.8	60491	PASS
95	95	100	100	100.0	124040	PASS
96	95	5	9	6.5	8048	PASS
173	174	0.00	2	0.6	644	PASS
174	95	50	120	91.4	113392	PASS
175	174	4	9	7.1	8039	PASS
176	174	93	101	96.6	109491	PASS
177	176	5	9	6.6	7193	PASS

7w17472.D M7W577.M Mon Sep 29 17:06:33 2025

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	994	49.00	4950	62.00	5501	74.00	19179
37.00	5126	50.00	24211	63.00	3974	75.00	60491
38.00	4613	51.05	7854	63.95	379	76.00	5147
39.00	1932	51.90	257	64.90	32	76.95	609
39.95	151	54.95	267	67.05	309	78.05	463
43.00	44	56.00	1686	68.00	11538	78.90	2810
44.00	503	57.00	3259	69.00	11858	79.95	727
45.00	1015	57.90	119	70.00	932	80.90	3140
46.00	92	58.10	23	70.90	21	81.90	597
47.00	1841	60.00	1139	71.95	510	82.90	78
47.95	717	61.00	5344	73.00	4973	85.85	98

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	4797	105.85	510	123.95	77	141.80	28
88.00	4809	106.60	20	125.75	39	141.95	105
90.90	382	106.90	116	127.95	391	142.85	1231
92.00	3682	110.85	88	128.80	181	143.85	52
93.00	5316	111.90	44	129.85	412	144.90	88
94.00	14286	112.90	99	130.85	210	145.85	149
95.00	124040	114.80	128	134.90	238	146.90	68
96.00	8048	115.95	365	136.85	239	147.80	291
97.00	215	116.85	679	137.70	22	148.85	103
103.85	482	117.85	469	139.75	93	149.80	113
104.90	165	118.85	609	140.95	1166	151.75	39

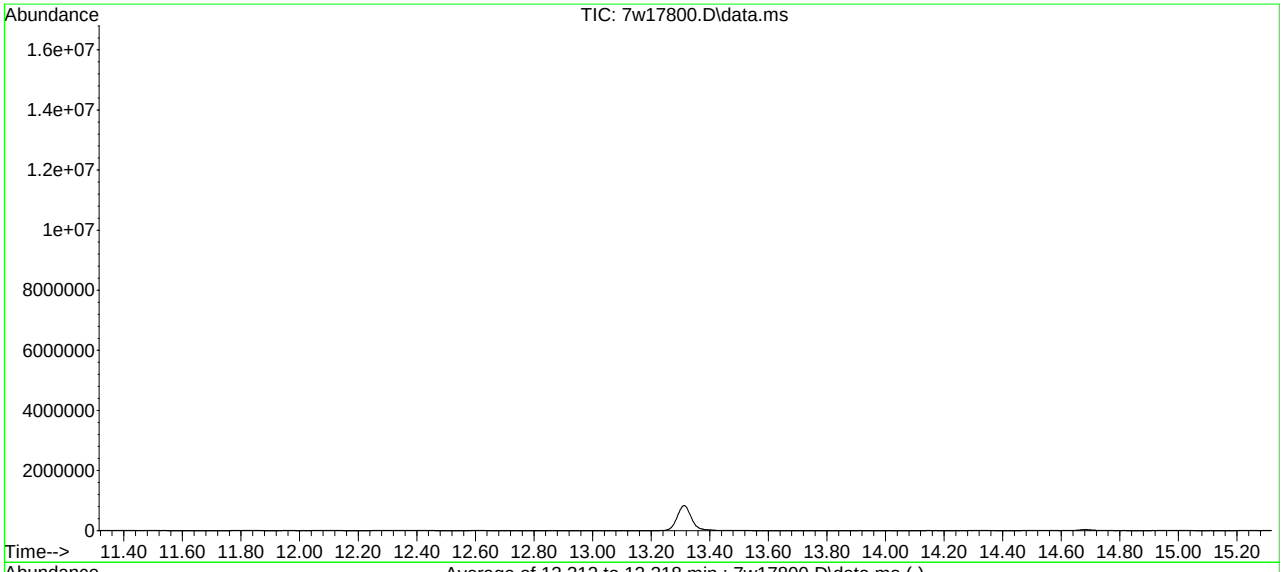
Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

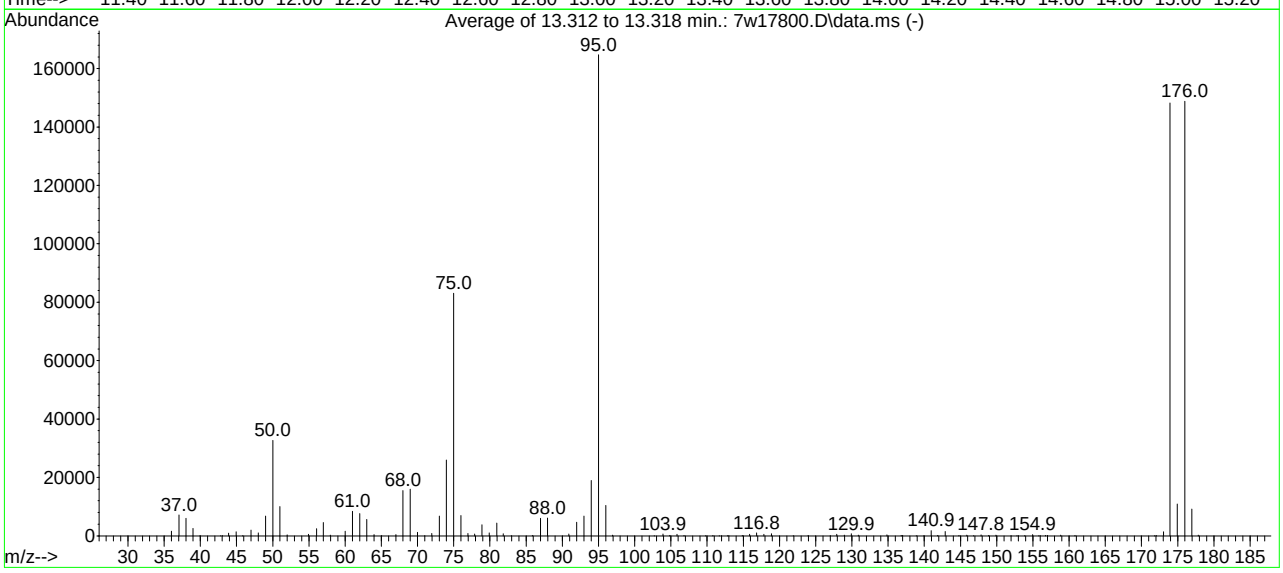
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.85	109	175.00	8039				
153.75	100	175.90	109491				
154.00	27	176.95	7193				
154.90	329	177.85	205				
156.70	41						
156.95	84						
158.85	175						
160.75	178						
171.85	118						
173.10	644						
173.95	113392						

BFB

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17800.D Vial: 4
Acq On : 13 Oct 2025 10:41 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4113, 4114, 4115; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.8	32653	PASS
75	95	30	66	50.4	83059	PASS
95	95	100	100	100.0	164693	PASS
96	95	5	9	6.3	10435	PASS
173	174	0.00	2	0.9	1376	PASS
174	95	50	120	90.0	148181	PASS
175	174	4	9	7.4	10927	PASS
176	174	93	101	100.4	148821	PASS
177	176	5	9	6.2	9210	PASS

7w17800.D M7W577.M Mon Oct 13 21:32:02 2025

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1548	48.00	998	62.00	7648	74.00	25928
37.05	7146	49.00	6797	63.00	5647	75.00	83059
38.00	6017	50.00	32653	64.00	469	76.00	6950
39.00	2546	51.00	10056	65.05	77	76.95	868
39.95	76	52.00	373	67.00	420	77.90	624
42.80	54	54.95	497	68.00	15526	78.90	3753
43.05	93	56.05	2421	69.00	16030	79.90	1027
43.90	913	57.00	4596	70.00	1185	80.95	4363
44.95	1374	57.95	241	71.00	23	81.85	687
45.85	94	60.00	1599	71.95	837	82.95	81
47.00	1988	61.00	8422	73.00	6766	85.85	192

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	6024	104.85	174	116.85	972	136.80	132
87.95	6118	105.85	560	117.85	490	137.00	170
90.90	612	106.80	151	118.90	774	138.90	18
92.00	4652	109.80	57	121.90	30	139.95	66
93.00	6777	110.80	117	123.95	114	140.95	1778
94.00	18955	111.70	57	127.00	18	141.85	181
95.00	164693	112.00	28	127.90	524	142.90	1542
96.00	10435	112.80	81	128.95	268	144.80	153
96.95	293	113.00	43	129.90	709	145.85	237
102.70	47	114.85	180	130.90	269	146.80	75
103.90	664	115.85	548	134.85	315	147.85	387

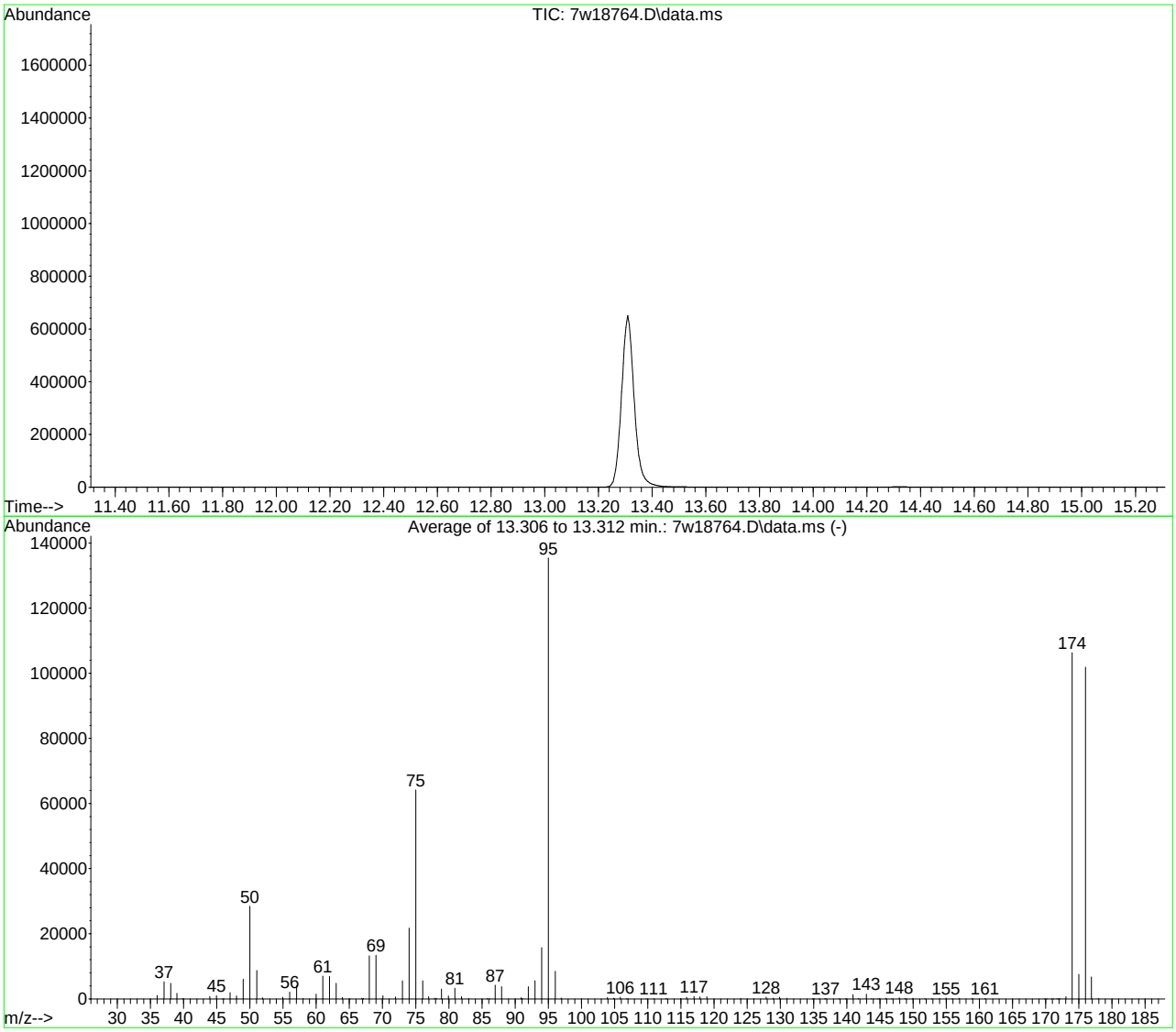
Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.90	132	158.85	205				
149.90	249	160.80	198				
152.00	18	171.80	84				
152.80	36	172.05	152				
153.00	89	173.05	1376				
153.85	77	173.95	148181				
154.95	434	174.95	10927				
155.80	23	176.00	148821				
156.00	23	176.95	9210				
156.75	173	177.85	232				
157.00	105						

BFB

Data File : X:\Dayton VOA GCMS\C...2025\V7W655\7w18764.D Vial: 1
Acq On : 24 Nov 2025 9:14 am Operator: williamc
Sample : bfb Inst : MS7W
Misc : MS99437,v7w655,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4111, 4112, 4113; Background Corrected with Scan 4082

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.0	28461	PASS
75	95	30	66	47.4	64213	PASS
95	95	100	100	100.0	135381	PASS
96	95	5	9	6.3	8482	PASS
173	174	0.00	2	0.7	713	PASS
174	95	50	120	78.5	106256	PASS
175	174	4	9	7.1	7559	PASS
176	174	93	101	95.9	101904	PASS
177	176	5	9	6.6	6737	PASS

7w18764.D M7W577.M Wed Nov 26 01:52:34 2025

Average of 13.306 to 13.312 min.: 7w18764.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1063	49.00	6077	63.00	4803	75.00	64213
37.05	5237	50.00	28461	63.95	441	76.05	5595
38.05	4754	51.05	8691	65.10	40	76.95	684
39.00	1737	51.90	324	66.90	179	77.85	192
39.85	118	54.95	484	67.10	123	78.10	187
43.95	777	56.00	2105	68.00	13199	78.90	3030
44.95	990	57.05	3980	69.00	13380	79.95	942
45.90	26	58.00	154	70.05	977	80.90	3316
46.10	83	60.00	1452	71.95	618	81.90	718
47.00	1909	61.00	7022	73.00	5590	83.00	92
48.00	872	62.00	6944	74.00	21773	85.80	95

Average of 13.306 to 13.312 min.: 7w18764.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.15	89	103.90	476	116.95	724	135.85	61
87.00	4246	104.85	204	117.85	567	136.70	73
87.95	3753	105.85	522	118.90	678	136.85	142
90.90	350	106.80	69	124.00	97	138.80	69
91.10	109	107.00	73	126.00	18	139.85	138
92.00	3756	109.75	37	127.85	536	140.95	1327
93.00	5589	110.90	68	128.90	201	141.75	153
94.00	15726	112.70	51	129.85	506	142.95	1479
95.00	135381	112.90	48	130.95	213	143.70	27
96.05	8482	114.95	153	134.85	126	144.00	34
96.95	246	115.85	513	135.05	92	144.70	26

Average of 13.306 to 13.312 min.: 7w18764.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.90	89	155.90	55	173.05	713		
145.90	206	156.95	232	174.00	106256		
146.80	38	158.90	221	175.00	7559		
147.90	348	160.85	166	176.00	101904		
148.75	89	169.85	39	176.90	6737		
149.00	34	170.20	20	177.95	163		
149.95	198	170.90	42				
151.80	92	171.20	46				
152.85	135	171.70	31				
154.00	124	171.90	55				
154.95	287	172.15	155				

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	470818	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2113713	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1047801	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	474427	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1393397	10.72	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 107.20%				
Target Compounds							Qvalue
2) FREON 115	3.378	119	1822	0.06	PPBV		95
3) FREON 152A	3.457	65	2398	0.07	PPBV		97
4) CHLORODIFLUOROMETHANE	3.482	67	522	0.04	PPBV	#	44
5) CHLOROTRIFLUOROETHENE	3.512	116	3060	0.04	PPBV		95
6) DICHLORODIFLUOROMETHANE	3.555	85	5958	0.04	PPBV		95
7) PROPYLENE	3.512	41	2388m	0.07	PPBV		
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	5550m	0.05	PPBV		
9) FREON 114	3.732	85	6084	0.05	PPBV		93
10) CHLOROMETHANE	3.671	52	845	0.06	PPBV	#	32
11) VINYL CHLORIDE	3.824	62	2035	0.05	PPBV	#	39
12) 1,3-BUTADIENE	3.928	54	1523	0.06	PPBV	#	42
13) n-BUTANE	3.953	43	2825m	0.07	PPBV		
14) BROMOMETHANE	4.112	94	2464	0.05	PPBV	#	53
15) CHLOROETHANE	4.234	64	1697m	0.08	PPBV		
16) DICHLOROFLUOROMETHANE	4.301	67	4942	0.05	PPBV	#	84
17) ACETONITRILE	4.534	41	1278	0.05	PPBV	#	61
18) ACROLEIN	4.620	56	728m	0.05	PPBV		
19) FREON 123	4.607	83	6421	0.06	PPBV		76
20) FREON 123A	4.644	117	3274	0.05	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	5153	0.05	PPBV	#	77
22) ISOPROPYL ALCOHOL	4.938	45	5219m	0.06	PPBV		
23) ACETONE	4.730	58	1951	0.11	PPBV		95
24) PENTANE	5.084	42	3370	0.08	PPBV		76
25) IODOMETHANE	5.256	142	6273	0.04	PPBV		87
26) 1,1-DICHLOROETHYLENE	5.323	96	2915	0.06	PPBV	#	58
27) CARBON DISULFIDE	5.684	76	5982	0.05	PPBV		90
28) ETHANOL	4.350	45	2592	0.17	PPBV		78
29) BROMOETHENE	4.491	106	2283	0.05	PPBV	#	64
30) ACRYLONITRILE	5.109	52	1514	0.05	PPBV	#	71
31) METHYLENE CHLORIDE	5.427	84	2871	0.06	PPBV		97
32) 3-CHLOROPROPENE	5.537	76	1170	0.05	PPBV	#	68
33) FREON 113	5.647	151	3628	0.04	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.253	96	2781m	0.05	PPBV		
35) TERTIARY BUTYL ALCOHOL	5.482	59	3750	0.04	PPBV		78
36) METHYL TERTIARY BUTYL ...	6.565	73	7842	0.06	PPBV		90
38) HEXANE	7.385	57	3894	0.05	PPBV		89
40) 1,1-DICHLOROETHANE	6.436	63	5305	0.06	PPBV		94
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3901	0.07	PPBV	#	54
43) DIISOPROPYL ETHER	7.458	59	536	0.03	PPBV	#	1
44) ETHYL ACETATE	7.207	61	3226	0.23	PPBV	#	1
45) METHYL ACRYLATE	7.397	55	878	0.01	PPBV	#	65
46) CHLOROFORM	7.489	83	4783	0.05	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	8.229	57	4175	0.05	PPBV		91
48) 1,1,1-TRICHLOROETHANE	8.413	97	4728	0.04	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	4970	0.04	PPBV		99
50) 1,2-DICHLOROETHANE	8.192	62	3147	0.04	PPBV	#	73
52) BENZENE	8.871	78	6471	0.05	PPBV		84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

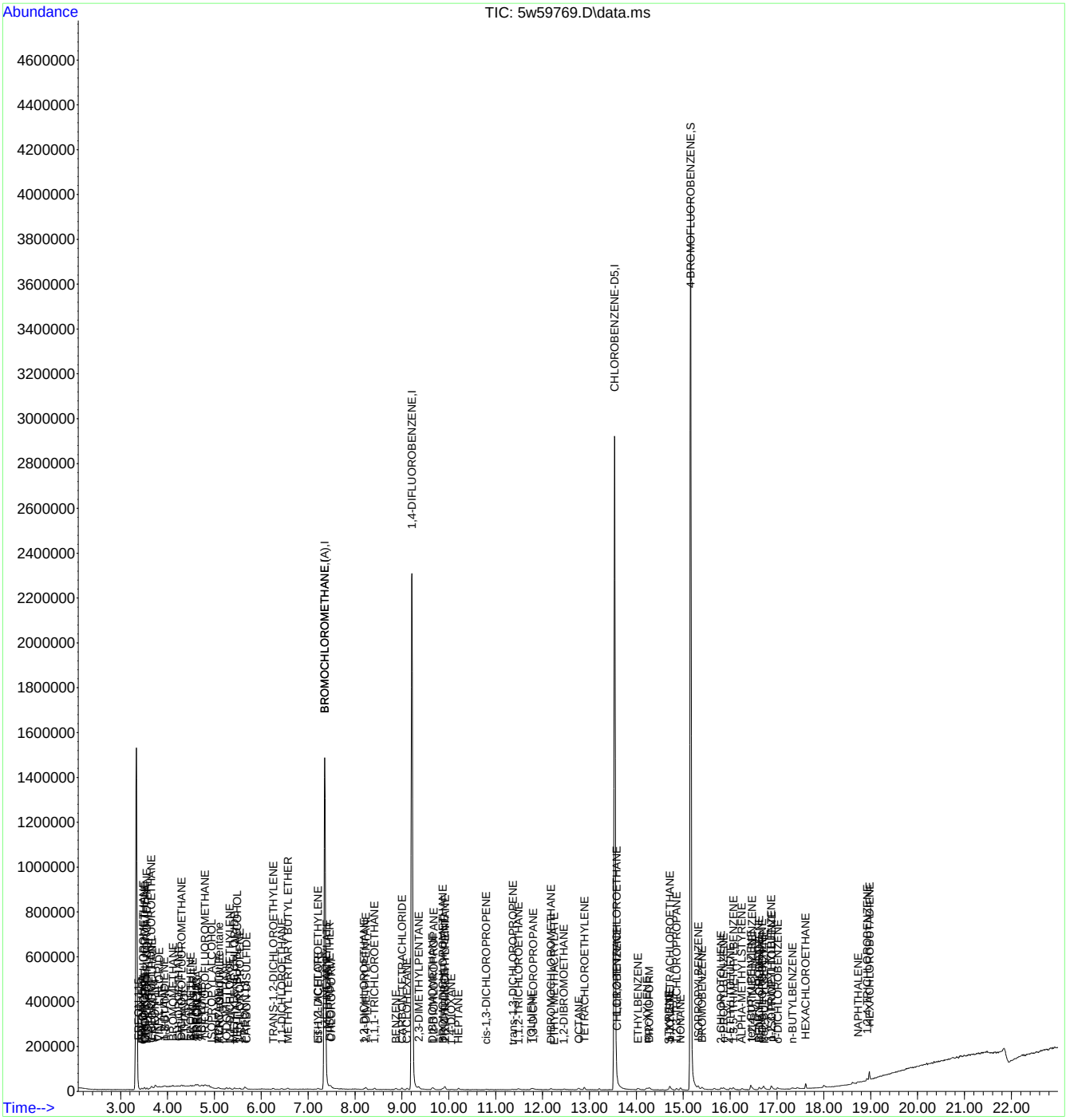
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) CYCLOHEXANE	9.104	84	2517	0.04	PPBV		86
54) 2,3-DIMETHYLPENTANE	9.361	71	1176	0.04	PPBV	#	68
55) TRICHLOROETHYLENE	9.905	95	2913	0.04	PPBV		91
56) 1,2-DICHLOROPROPANE	9.673	63	3887m	0.06	PPBV		
57) DIBROMOMETHANE	9.648	174	3768	0.05	PPBV		94
59) BROMODICHLOROMETHANE	9.869	83	4912	0.04	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	9.917	57	10699	0.05	PPBV		97
61) 1,4-DIOXANE	10.052	88	1059	0.03	PPBV	#	1
62) HEPTANE	10.205	43	4522	0.06	PPBV		88
65) cis-1,3-DICHLOROPROPENE	10.792	75	4969	0.05	PPBV		77
66) TOLUENE	11.759	92	4059	0.04	PPBV		84
67) 1,3-DICHLOROPROPANE	11.796	76	3478	0.04	PPBV	#	53
68) trans-1,3-DICHLOROPROPENE	11.361	75	4586	0.05	PPBV		80
69) 1,1,2-TRICHLOROETHANE	11.484	83	2006	0.03	PPBV		89
72) ETHYL METHACRYLATE	12.248	69	735	0.01	PPBV	#	1
73) TETRACHLOROETHYLENE	12.891	164	3089	0.04	PPBV		89
74) DIBROMOCHLOROMETHANE	12.181	129	5067	0.04	PPBV		93
75) 1,2-DIBROMOETHANE	12.450	107	3668	0.04	PPBV	#	91
76) OCTANE	12.768	43	6243m	0.07	PPBV		
77) 1,1,1,2-TETRACHLOROETHANE	13.576	131	3434	0.04	PPBV		95
78) CHLOROBENZENE	13.588	112	6320	0.05	PPBV	#	50
79) ETHYLBENZENE	14.035	91	9593	0.05	PPBV		86
80) m,p-XYLENE	14.224	106	6608	0.08	PPBV	#	91
81) o-XYLENE	14.714	106	3154	0.04	PPBV	#	64
82) STYRENE	14.695	104	3881	0.03	PPBV		84
83) NONANE	14.940	43	5771	0.06	PPBV		90
84) BROMOFORM	14.273	173	4371	0.04	PPBV	#	93
86) 1,1,2,2-TETRACHLOROETHANE	14.714	83	5918	0.05	PPBV		95
87) 1,2,3-TRICHLOROPROPANE	14.854	75	5967	0.06	PPBV		74
88) ISOPROPYLBENZENE	15.319	105	9953	0.04	PPBV		87
89) BROMOBENZENE	15.399	77	5423	0.05	PPBV		89
90) 2-CHLOROTOLUENE	15.803	126	2313	0.04	PPBV		63
91) n-PROPYLBENZENE	15.858	120	2252	0.04	PPBV	#	61
92) 4-ETHYLTOLUENE	16.005	105	7489m	0.04	PPBV		
93) 1,3,5-TRIMETHYLBENZENE	16.066	105	9751m	0.05	PPBV		
94) ALPHA-METHYLSTYRENE	16.249	118	2895	0.03	PPBV		87
95) tert-BUTYLBENZENE	16.445	134	1525	0.04	PPBV	#	63
96) 1,2,4-TRIMETHYLBENZENE	16.470	105	8180	0.05	PPBV	#	29
97) m-DICHLOROBENZENE	16.622	146	4669	0.03	PPBV		89
98) BENZYL CHLORIDE	16.622	91	4703	0.03	PPBV		83
99) p-DICHLOROBENZENE	16.684	146	6829m	0.05	PPBV		
100) sec-BUTYLBENZENE	16.714	134	2023	0.04	PPBV	#	72
101) 1,2,3-TRIMETHYLBENZENE	16.873	105	8480	0.04	PPBV		93
102) p-ISOPROPYLTOLUENE	16.886	134	2164	0.04	PPBV	#	60
103) o-DICHLOROBENZENE	17.014	146	5480	0.04	PPBV		94
104) n-BUTYLBENZENE	17.332	134	1780	0.03	PPBV	#	47
105) HEXACHLOROETHANE	17.607	117	4357	0.05	PPBV		95
106) HEXACHLOROBUTADIENE	18.972	225	5840	0.05	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.923	180	5141	0.04	PPBV		96
108) NAPHTHALENE	18.727	128	11614m	0.04	PPBV		
110) TVHC as equiv Pentane	5.097	TIC	13430m	0.05	PPBV		

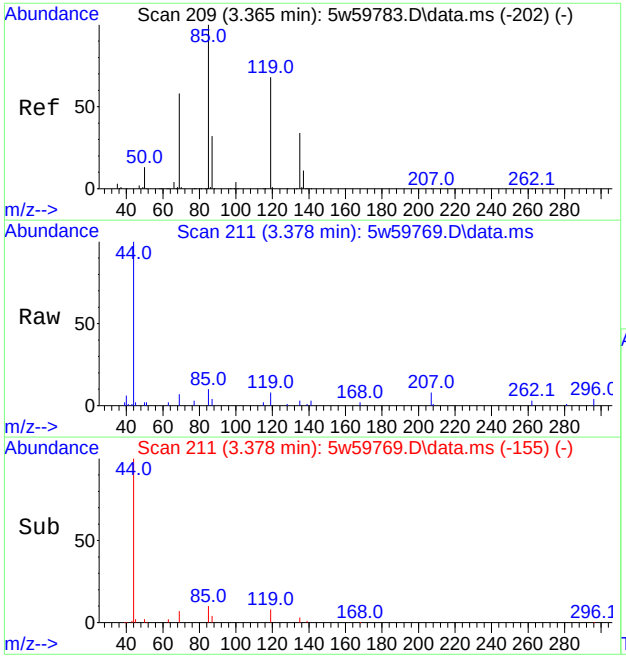
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

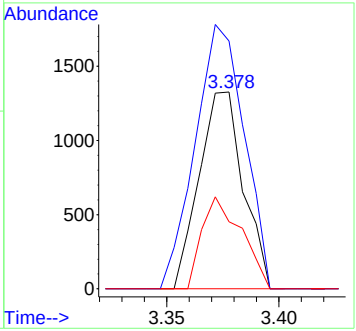


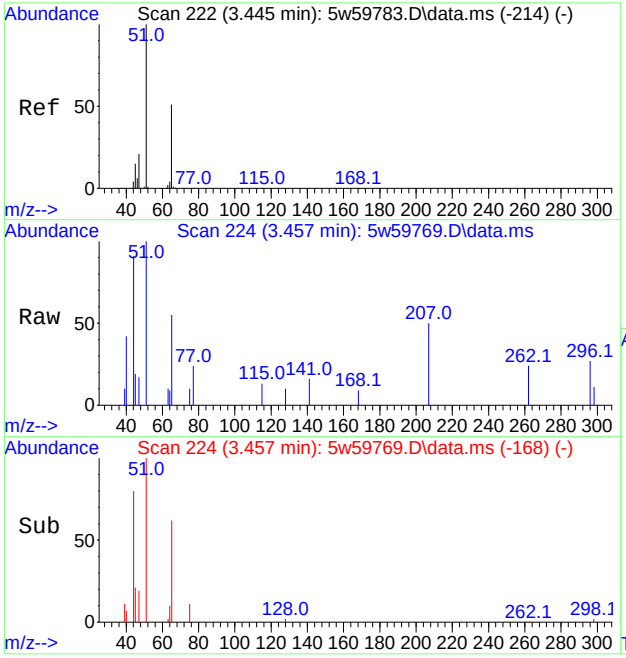


#2
FREON 115
Concen: 0.06 PPBV
RT: 3.378 min Scan# 211
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:119 Resp: 1822

Ion	Ratio	Lower	Upper
119	100		
85	149.2	116.2	176.2
135	41.9	20.6	80.6

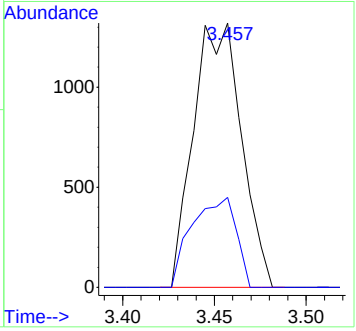


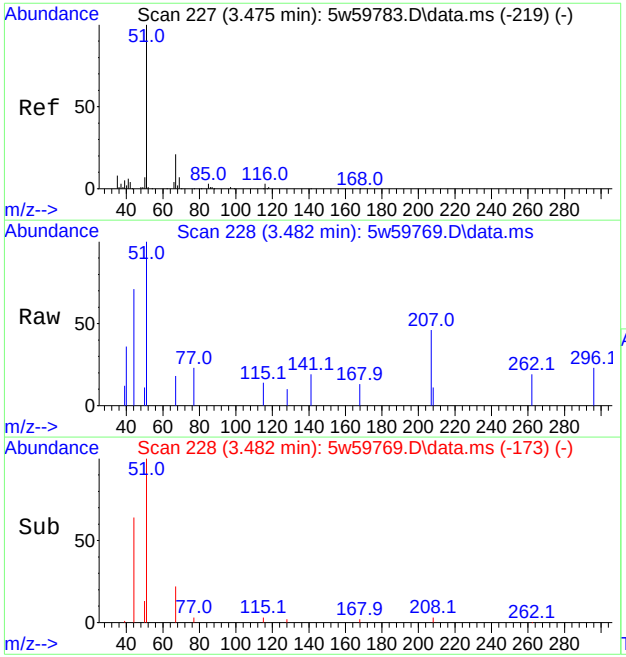


#3
FREON 152A
Concen: 0.07 PPBV
RT: 3.457 min Scan# 224
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 2398

Ion	Ratio	Lower	Upper
65	100		
45	31.4	0.0	60.0

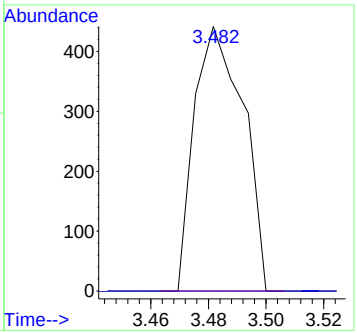


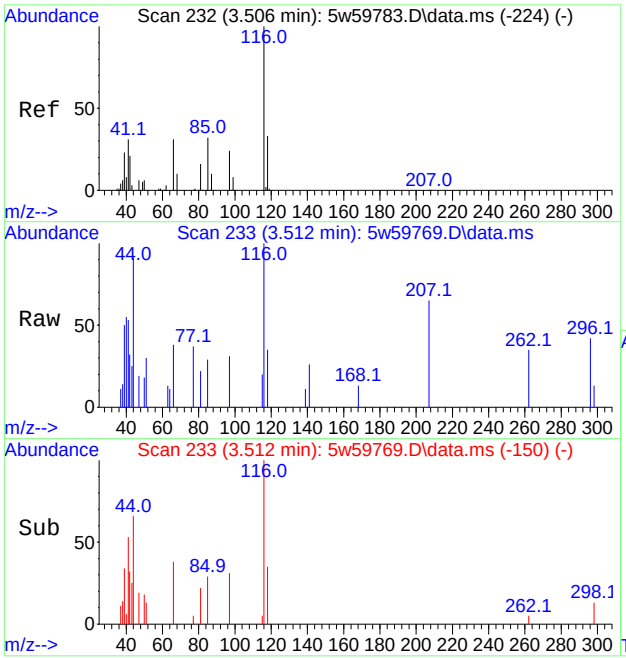


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 522

Ion	Ratio	Lower	Upper
67	100		
69	0.0	1.0	61.0#

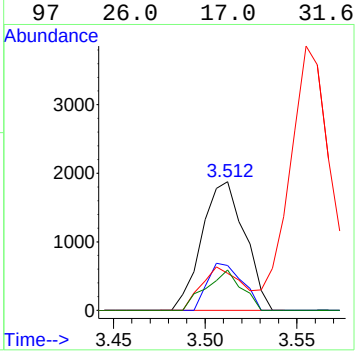


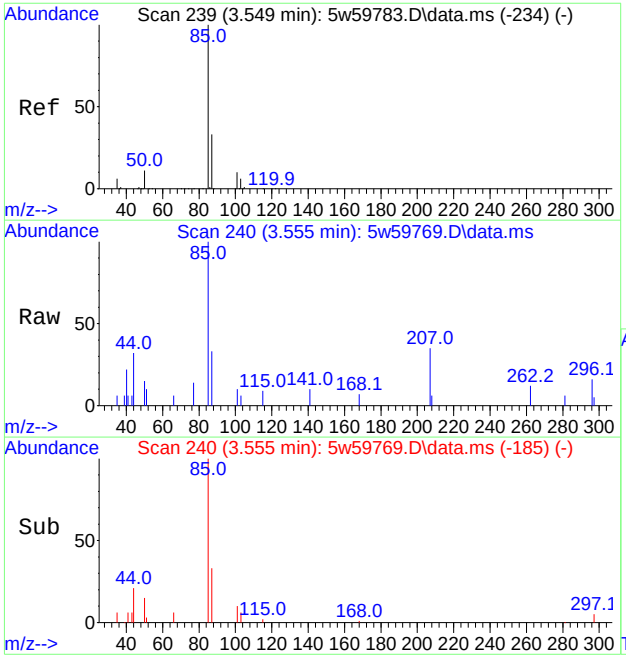


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 3.512 min Scan# 233
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:116 Resp: 3060

Ion	Ratio	Lower	Upper
116	100		
118	29.7	22.9	42.5
85	31.1	23.7	44.1
97	26.0	17.0	31.6

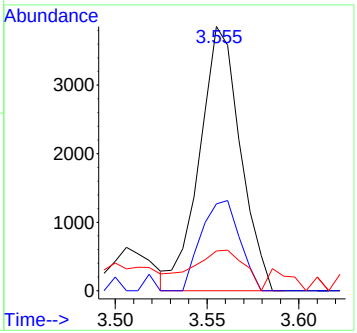


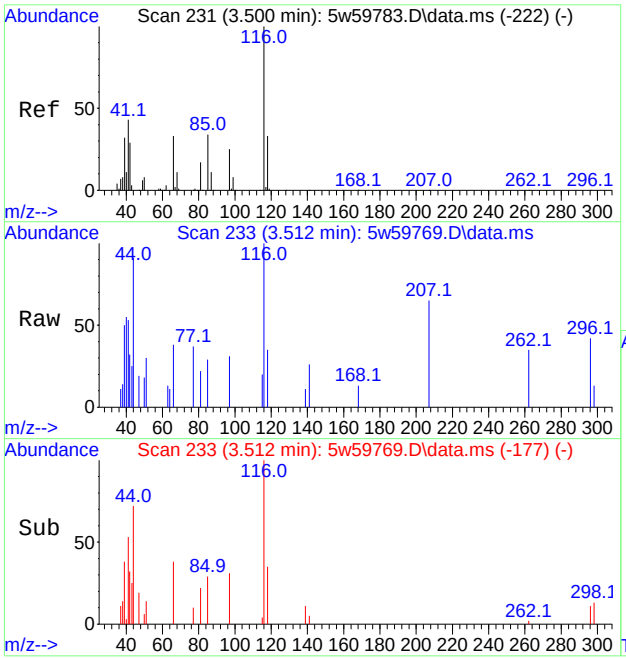


#6
DICHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 5958

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	18.7	0.0	41.7

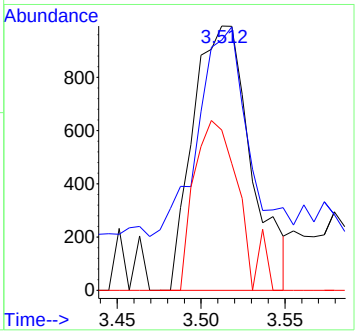


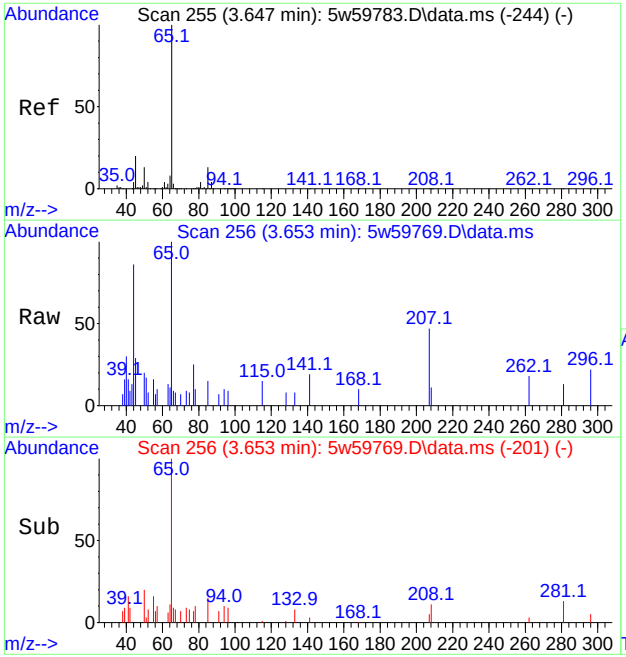


#7
PROPYLENE
Concen: 0.07 PPBV m
RT: 3.512 min Scan# 233
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 2388

Ion	Ratio	Lower	Upper
41	100		
39	236.5	45.1	105.1#
42	49.5	36.3	96.3

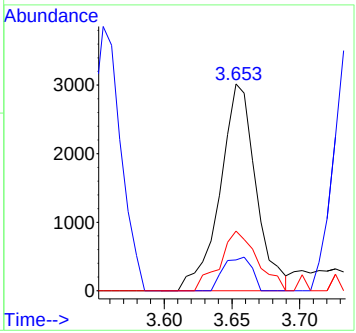


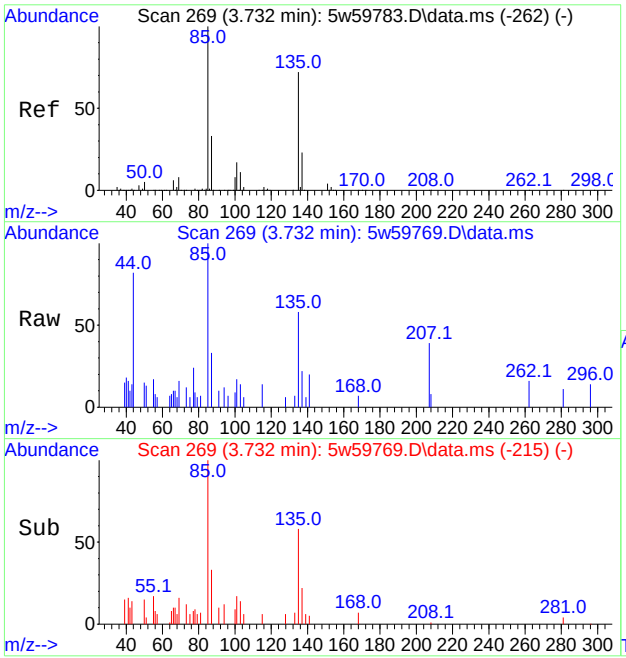


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.05 PPBV m
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 5550

Ion	Ratio	Lower	Upper
65	100		
85	12.9	11.5	21.3
45	30.0	14.0	26.0#

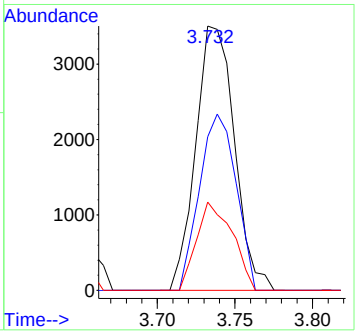


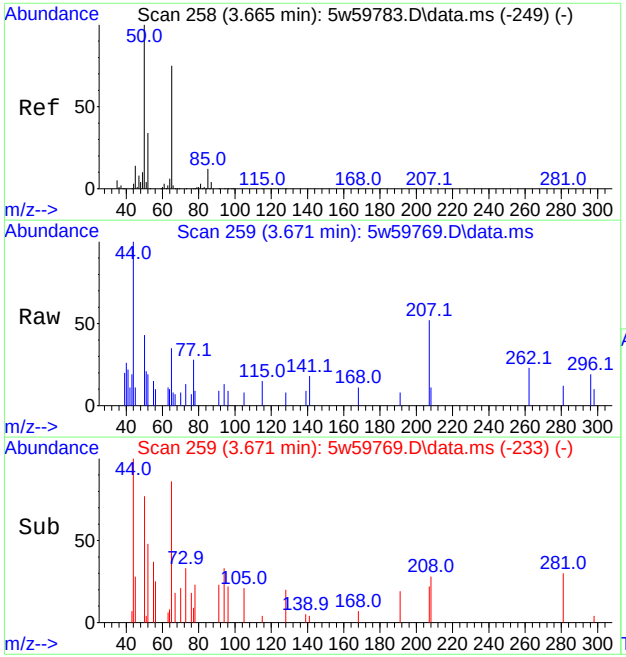


#9
FREON 114
Concen: 0.05 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 6084

Ion	Ratio	Lower	Upper
85	100		
135	63.0	40.5	100.5
87	30.9	3.0	63.0

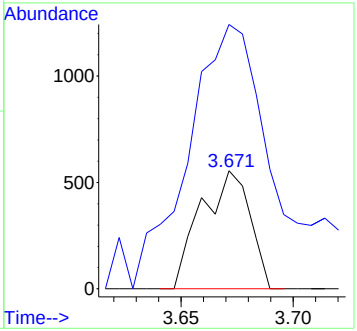


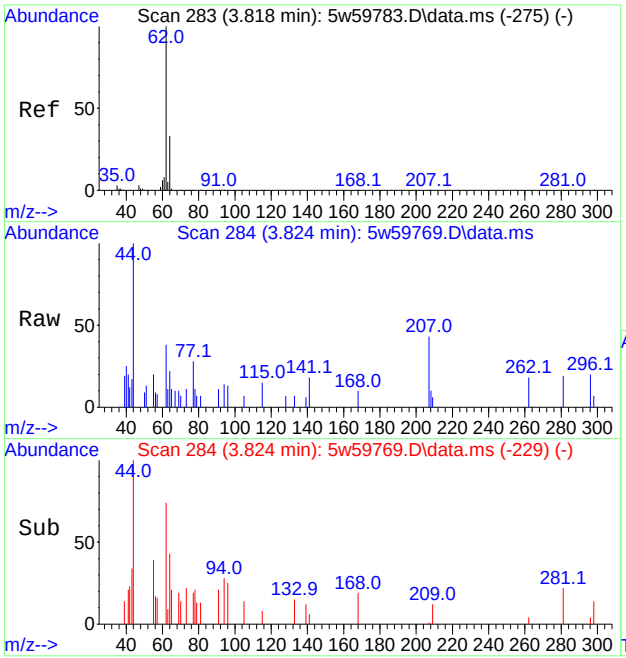


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 3.671 min Scan# 259
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 845

Ion	Ratio	Lower	Upper
52	100		
50	165.1	267.9	327.9#

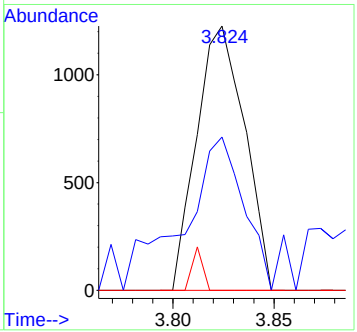


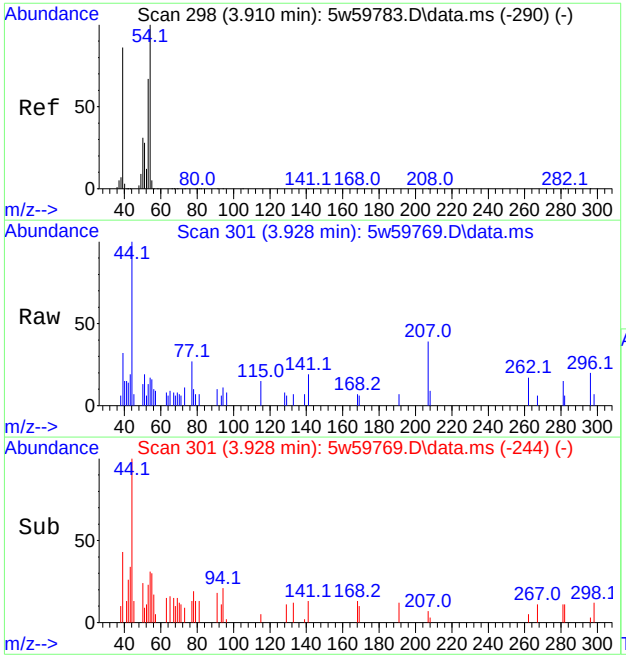


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 3.824 min Scan# 284
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 2035

Ion	Ratio	Lower	Upper
62	100		
64	73.5	3.6	63.6#
61	0.0	0.0	38.2

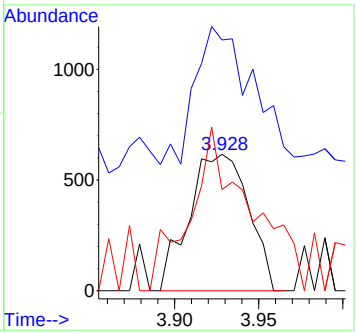


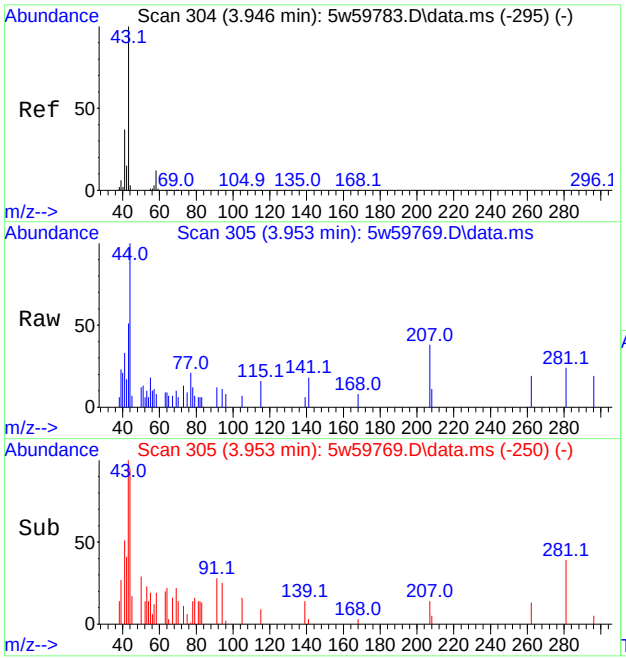


#12
1,3-BUTADIENE
Concen: 0.06 PPBV
RT: 3.928 min Scan# 301
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 54 Resp: 1523

Ion	Ratio	Lower	Upper
54	100		
39	168.7	82.0	142.0#
53	123.3	40.2	100.2#

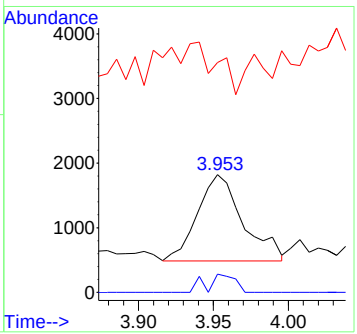


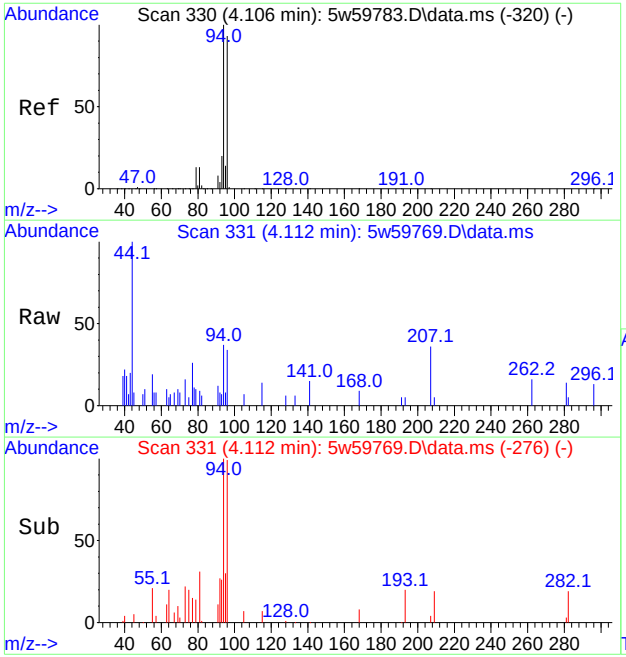


#13
n-BUTANE
Concen: 0.07 PPBV m
RT: 3.953 min Scan# 305
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 2825

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	0.0	0.0	34.9

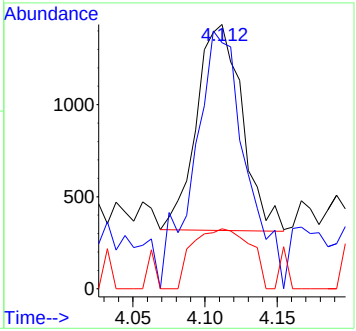


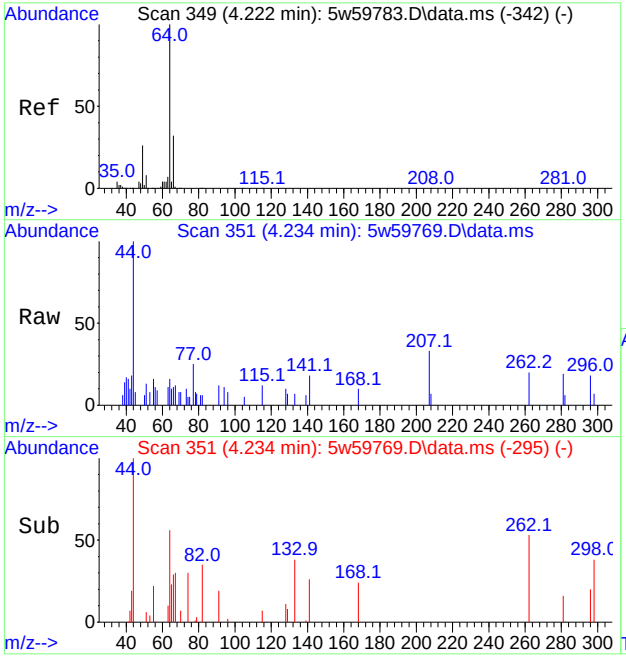


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 4.112 min Scan# 331
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 94 Resp: 2464

Ion	Ratio	Lower	Upper
94	100		
96	140.0	65.3	125.3#
95	36.8	0.0	44.1

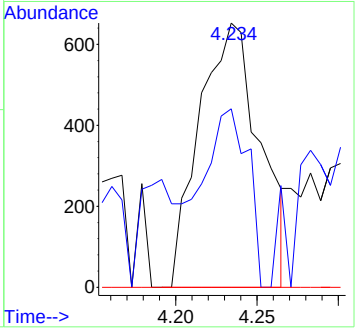


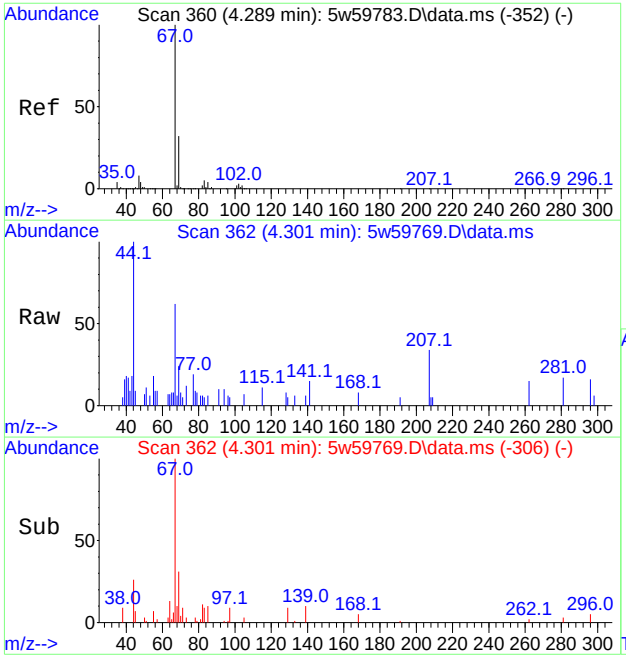


#15
CHLOROETHANE
Concen: 0.08 PPBV m
RT: 4.234 min Scan# 351
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 64 Resp: 1697

Ion	Ratio	Lower	Upper
64	100		
66	45.4	3.1	63.1
49	0.0	0.0	55.3

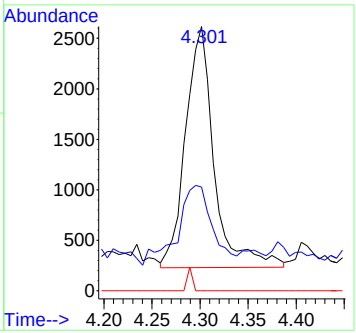


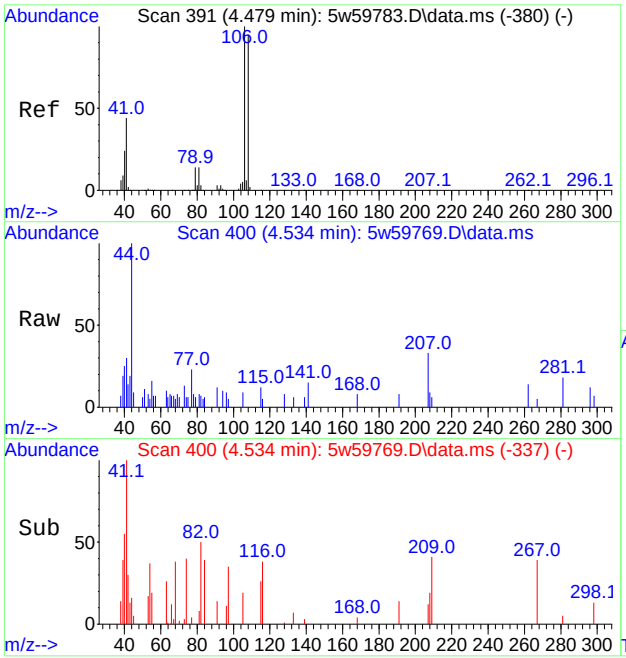


#16
DICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.301 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 4942

Ion	Ratio	Lower	Upper
67	100		
69	40.5	22.7	42.3
47	0.0	5.6	10.4#

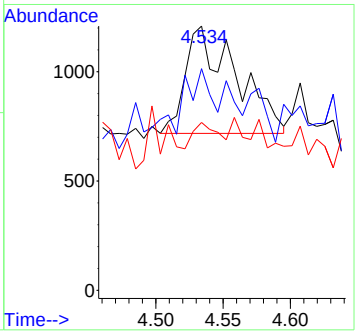


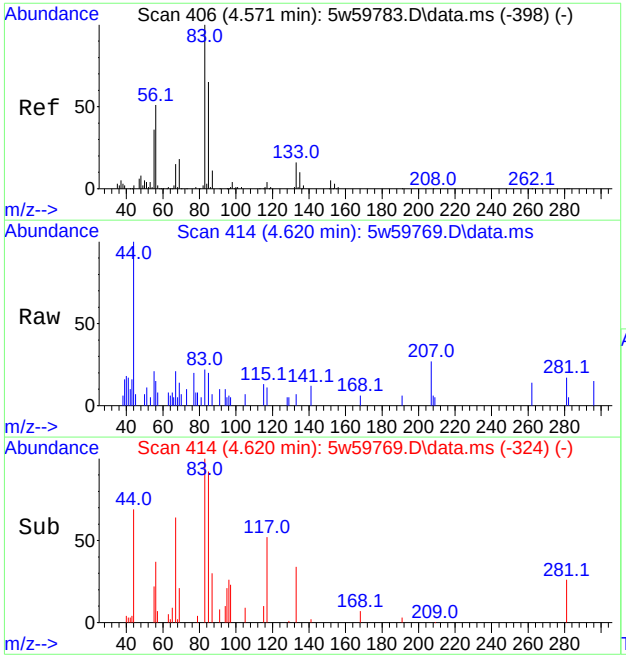


#17
ACETONITRILE
Concen: 0.05 PPBV
RT: 4.534 min Scan# 400
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 1278

Ion	Ratio	Lower	Upper
41	100		
40	81.2	37.9	70.5#
39	0.0	13.4	24.8#

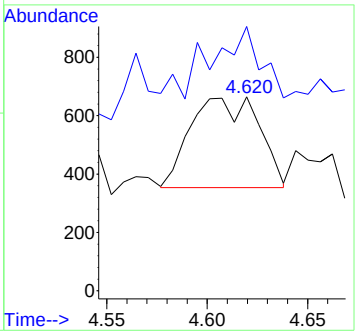


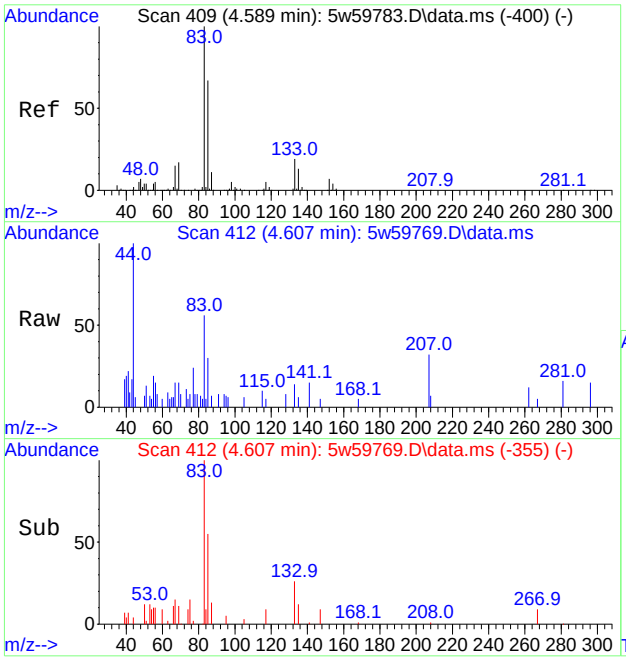


#18
ACROLEIN
Concen: 0.05 PPBV m
RT: 4.620 min Scan# 414
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 56 Resp: 728

Ion	Ratio	Lower	Upper
56	100		
55	401.2	46.6	86.6#

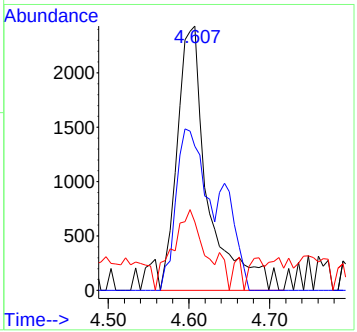


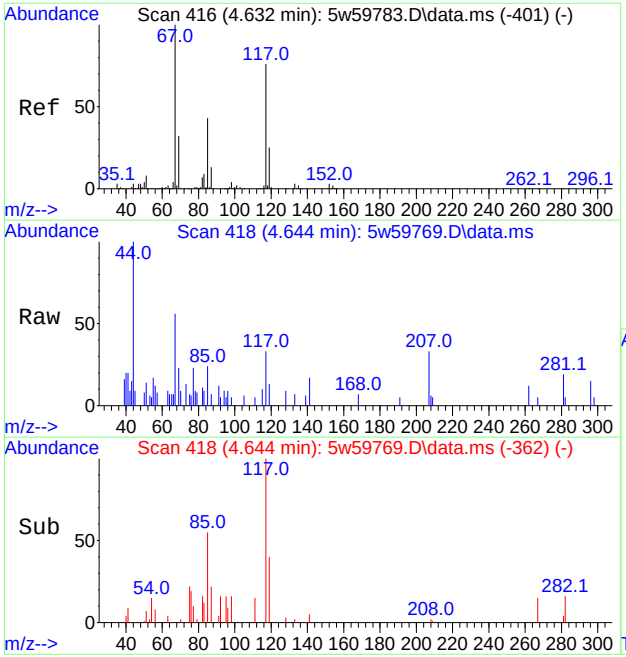


#19
FREON 123
Concen: 0.06 PPBV
RT: 4.607 min Scan# 412
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 6421

Ion	Ratio	Lower	Upper
83	100		
85	82.3	34.0	94.0
133	33.3	0.0	50.7

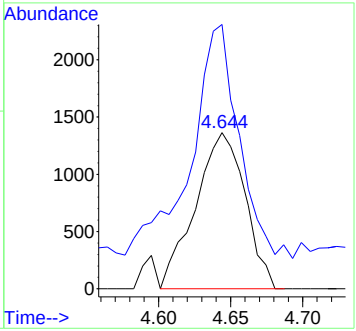


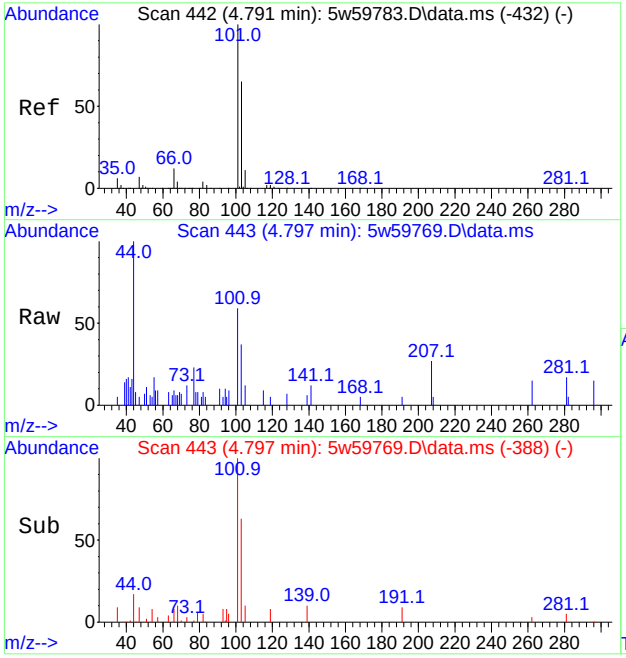


#20
FREON 123A
Concen: 0.05 PPBV
RT: 4.644 min Scan# 418
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 3274

Ion	Ratio	Lower	Upper
117	100		
67	146.4	114.6	174.6

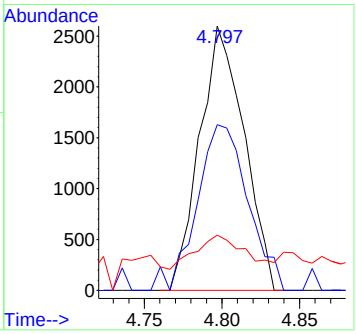


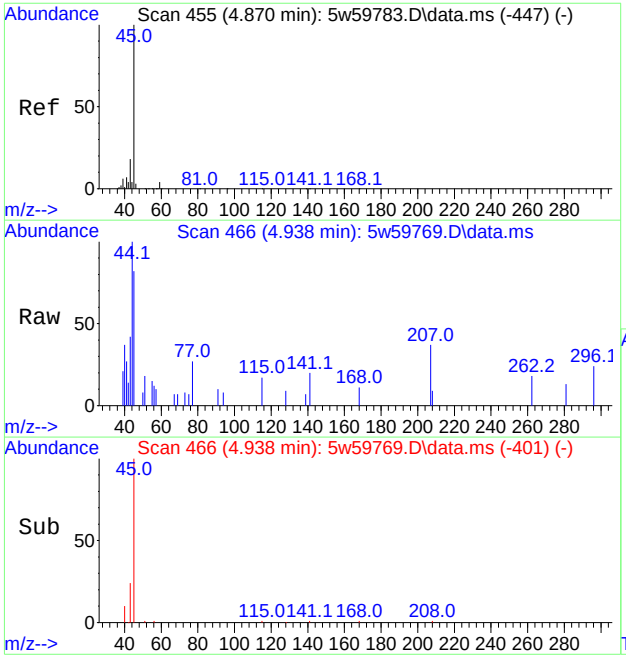


#21
TRICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:101 Resp: 5153

Ion	Ratio	Lower	Upper
101	100		
103	72.3	35.0	95.0
105	51.3	0.0	40.7#

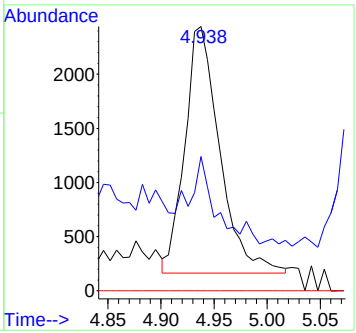


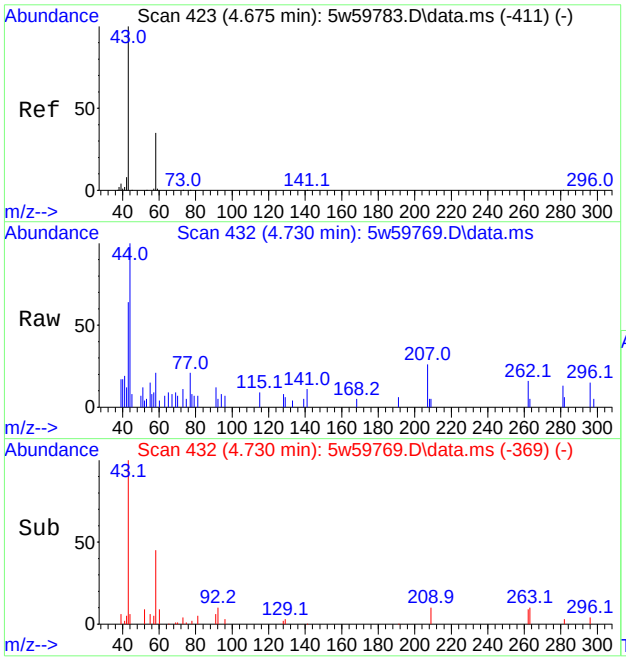


#22
ISOPROPYL ALCOHOL
Concen: 0.06 PPBV m
RT: 4.938 min Scan# 466
Delta R.T. 0.068 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 45 Resp: 5219

Ion	Ratio	Lower	Upper
45	100		
43	50.8	0.0	47.8#
59	0.0	0.0	34.1

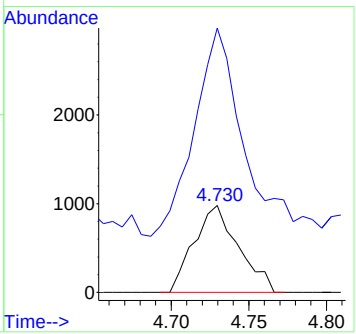


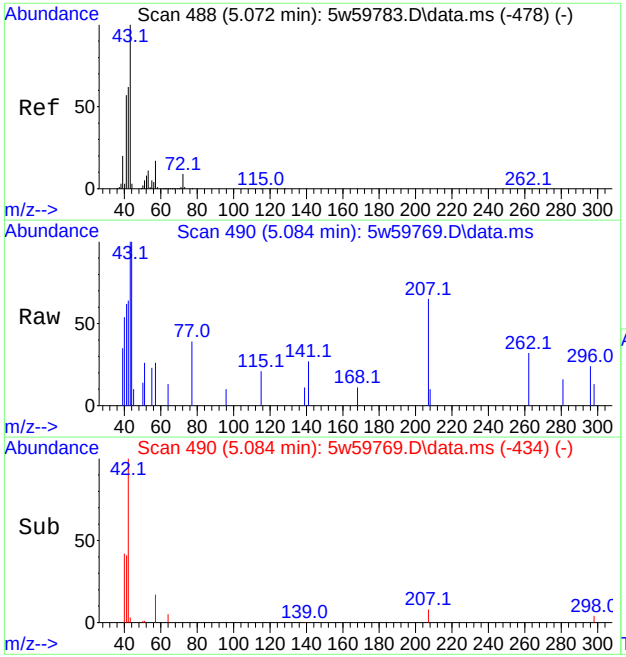


#23
ACETONE
Concen: 0.11 PPBV
RT: 4.730 min Scan# 432
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 58 Resp: 1951

Ion	Ratio	Lower	Upper
58	100		
43	292.5	252.3	312.3

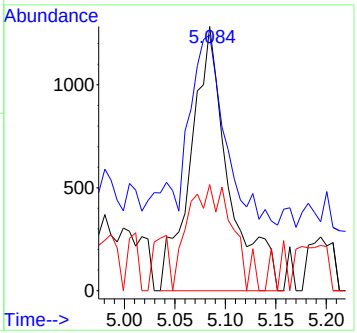


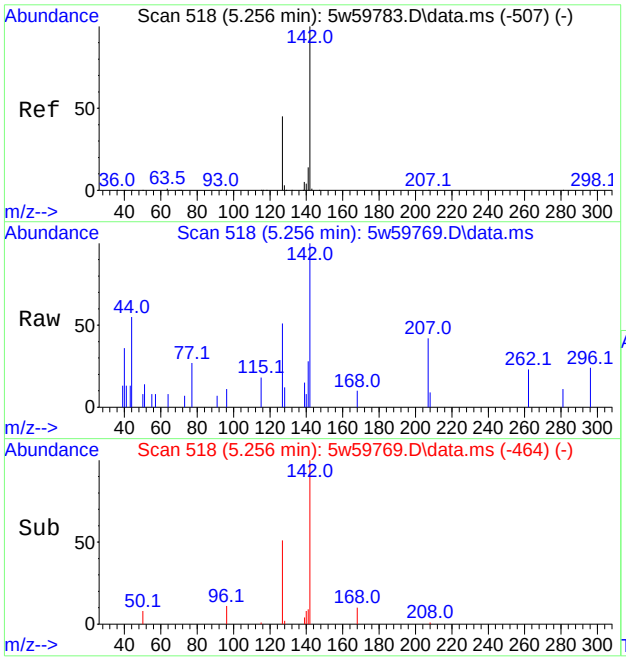


#24
PENTANE
Concen: 0.08 PPBV
RT: 5.084 min Scan# 490
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 42 Resp: 3370

Ion	Ratio	Lower	Upper
42	100		
41	72.5	62.3	122.3
57	46.9	0.0	57.7

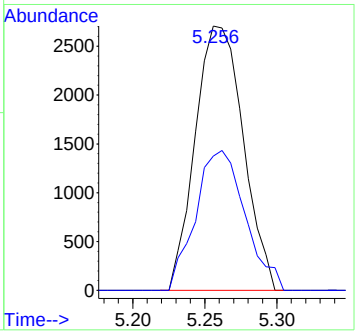


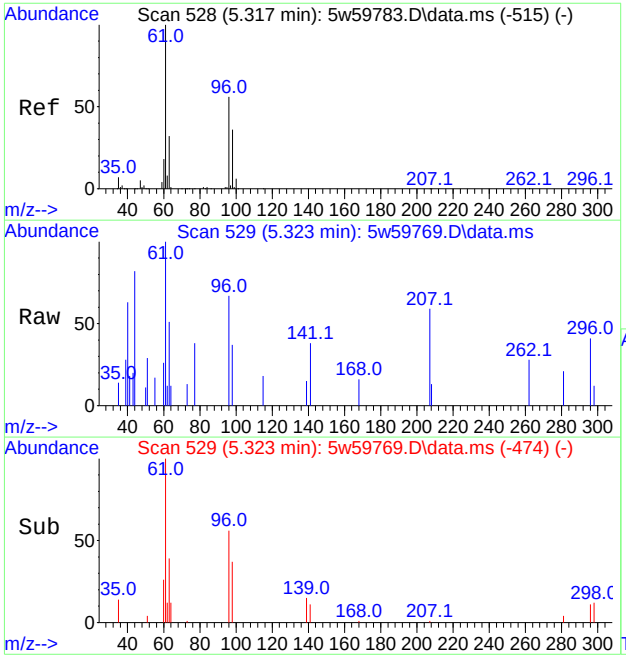


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:142 Resp: 6273

Ion	Ratio	Lower	Upper
142	100		
127	54.7	16.0	76.0

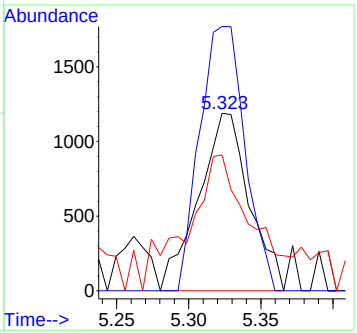


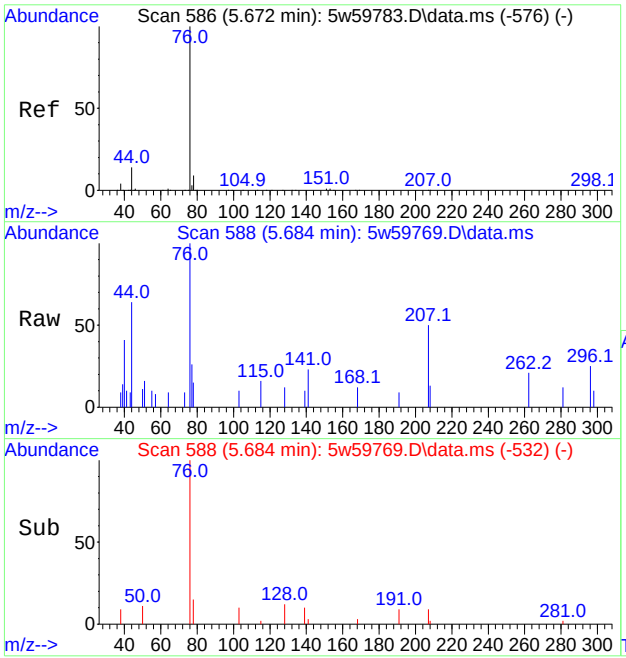


#26
1,1-DICHLOROETHYLENE
Concen: 0.06 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2915

Ion	Ratio	Lower	Upper
96	100		
61	132.6	148.5	208.5#
63	110.9	27.4	87.4#

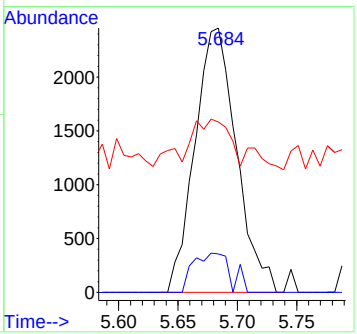


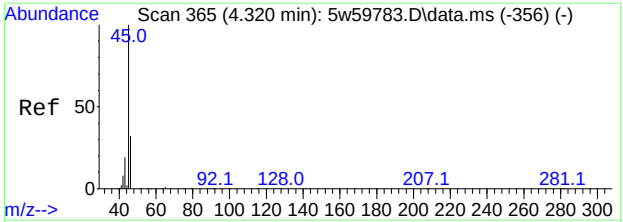


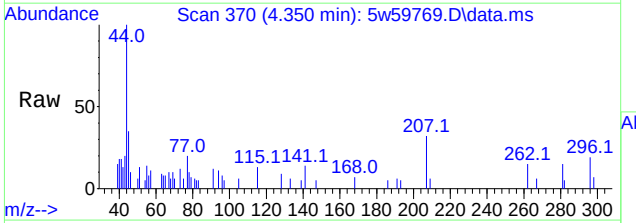
#27
CARBON DISULFIDE
Concen: 0.05 PPBV
RT: 5.684 min Scan# 588
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

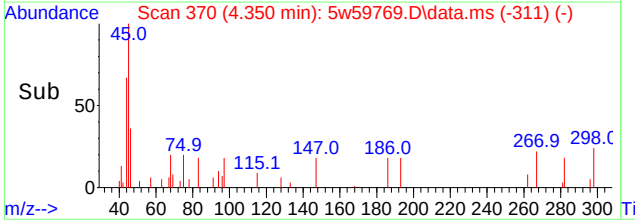
Tgt Ion: 76 Resp: 5982

Ion	Ratio	Lower	Upper
76	100		
78	13.3	0.0	41.5
44	20.2	0.0	44.6





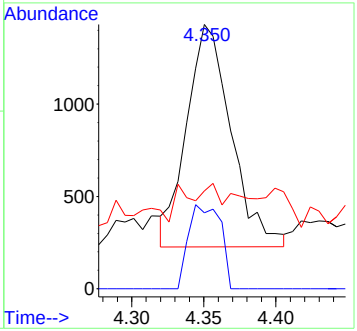


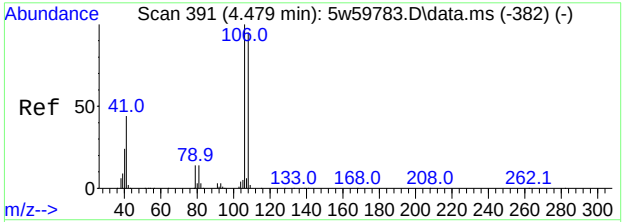


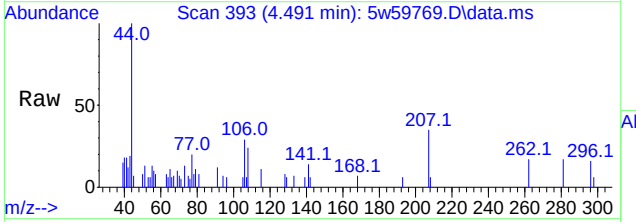
#28
ETHANOL
Concen: 0.17 PPBV
RT: 4.350 min Scan# 370
Delta R.T. 0.030 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

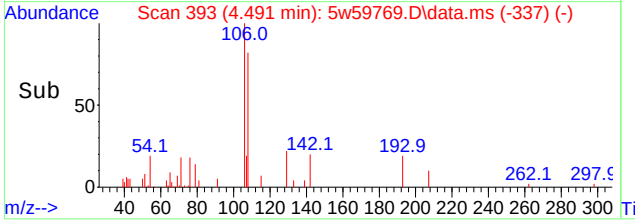
Tgt Ion: 45 Resp: 2592

Ion	Ratio	Lower	Upper
45	100		
46	27.1	2.0	62.0
42	34.5	0.0	38.5





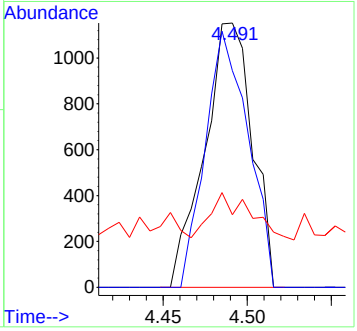


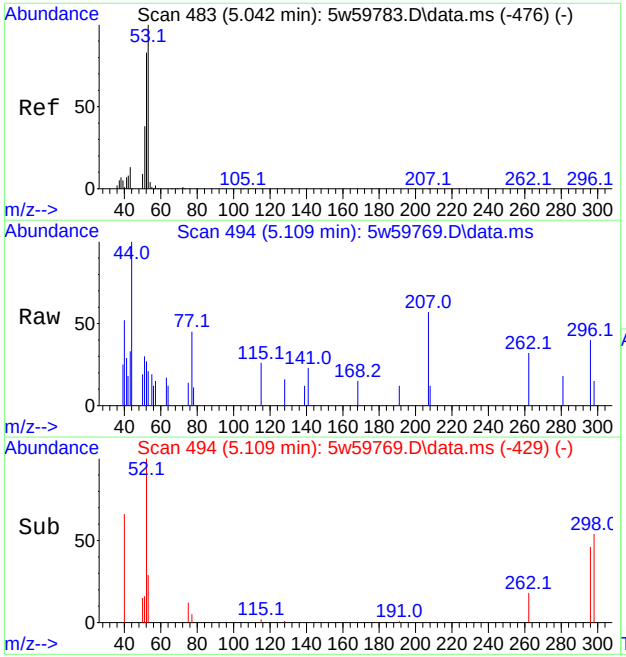


#29
BROMOETHENE
Concen: 0.05 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 2283

Ion	Ratio	Lower	Upper
106	100		
108	86.8	65.6	125.6
81	103.9	0.0	43.9#

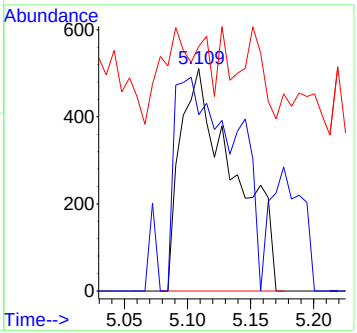


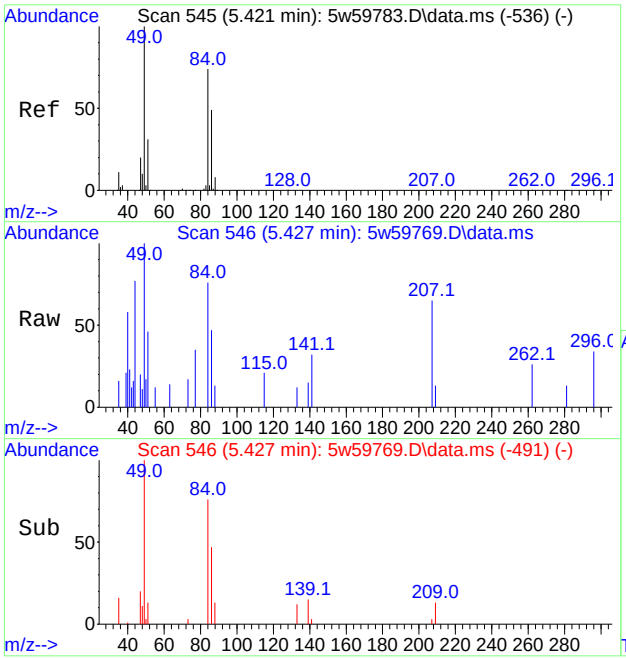


#30
ACRYLONITRILE
Concen: 0.05 PPBV
RT: 5.109 min Scan# 494
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 1514

Ion	Ratio	Lower	Upper
52	100		
53	107.2	85.8	159.4
51	0.0	32.3	60.1#

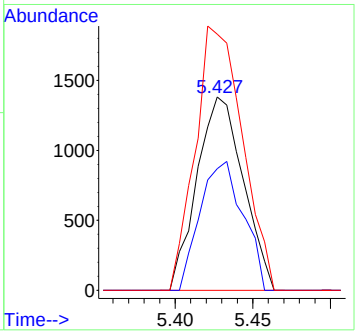


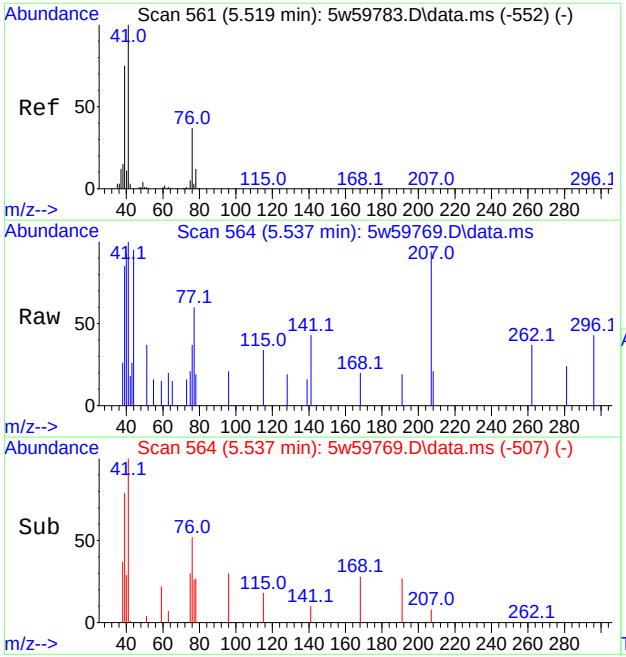


#31
METHYLENE CHLORIDE
Concen: 0.06 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2871

Ion	Ratio	Lower	Upper
84	100		
86	61.9	35.2	95.2
49	139.0	105.3	165.3

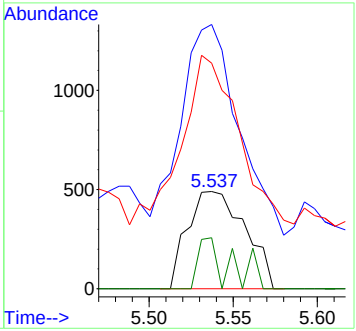


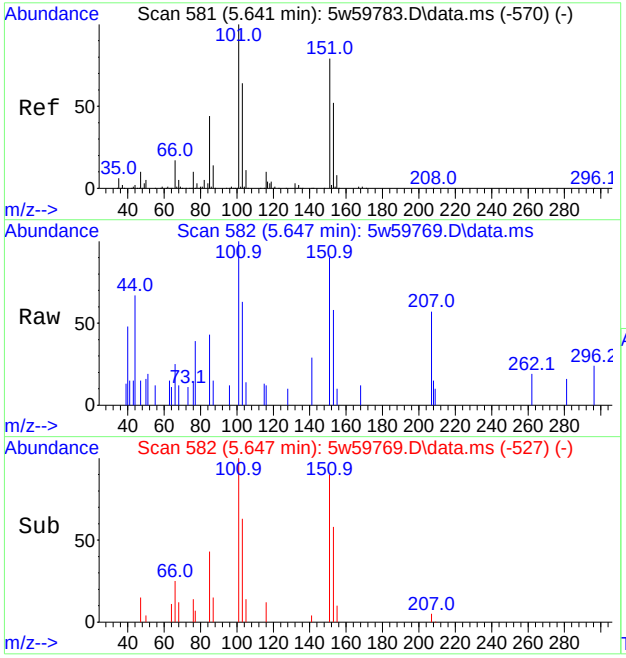


#32
3-CHLOROPROPENE
Concen: 0.05 PPBV
RT: 5.537 min Scan# 564
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 1170

Ion	Ratio	Lower	Upper
76	100		
41	199.4	240.8	300.8#
39	168.5	173.6	233.6#
78	15.9	2.8	62.8

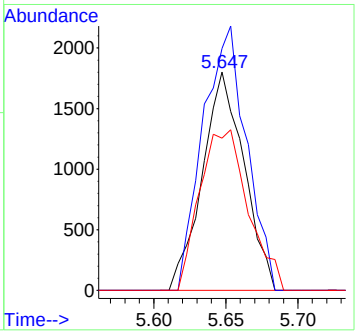


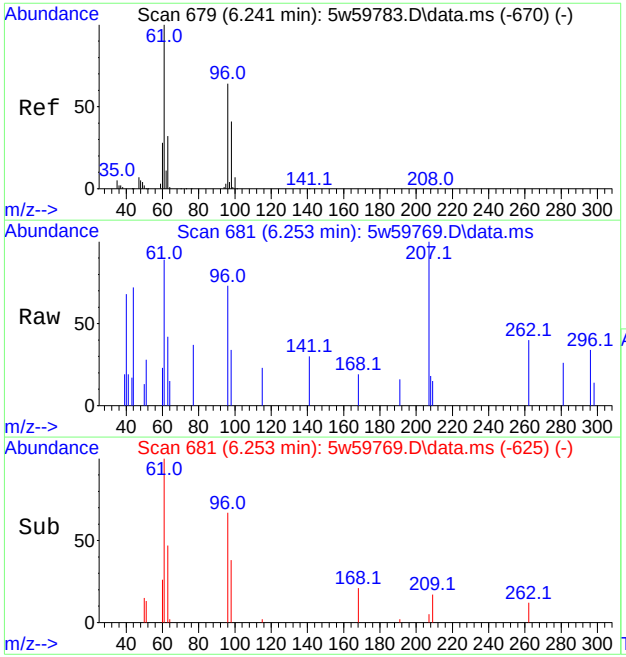


#33
FREON 113
Concen: 0.04 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:151 Resp: 3628

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	85.4	52.5	112.5

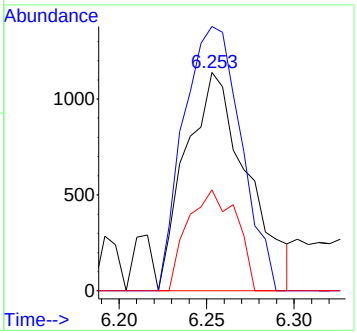


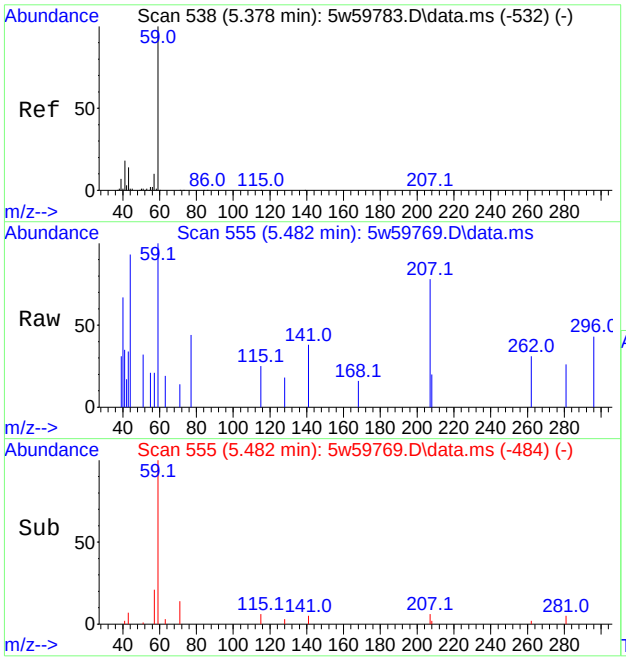


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.05 PPBV m
RT: 6.253 min Scan# 681
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2781

Ion	Ratio	Lower	Upper
96	100		
61	113.3	126.4	186.4#
98	36.7	34.1	94.1

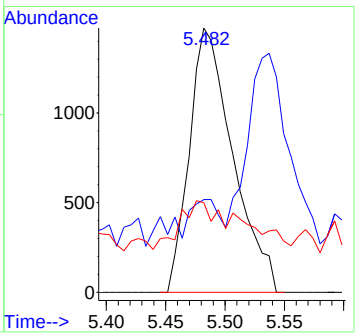


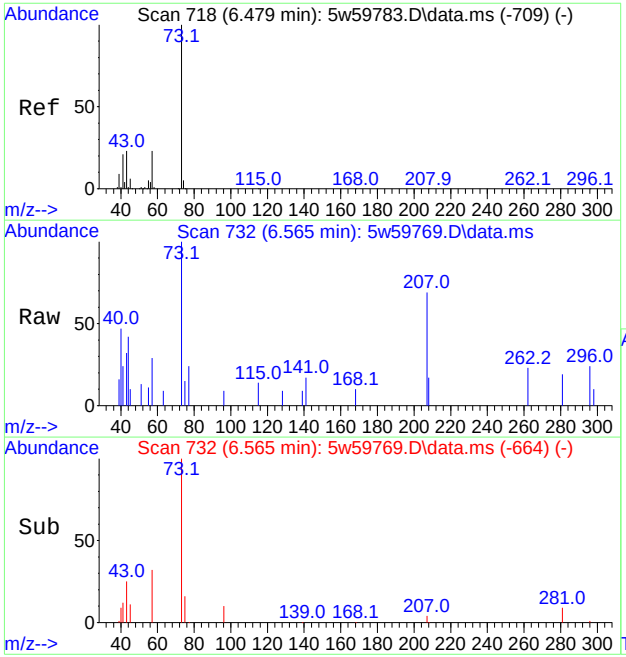


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.04 PPBV
RT: 5.482 min Scan# 555
Delta R.T. 0.104 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 3750

Ion	Ratio	Lower	Upper
59	100		
41	11.0	0.0	49.3
43	25.6	0.0	44.1

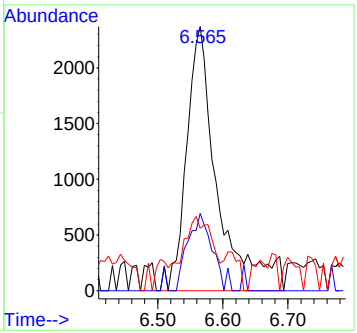


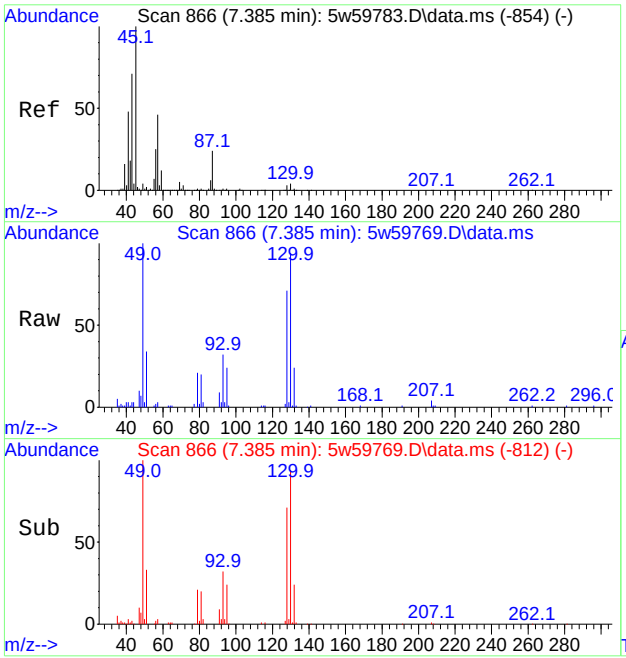


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.06 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.086 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 73 Resp: 7842

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	30.5	0.0	50.6

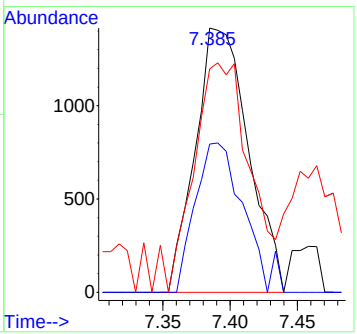


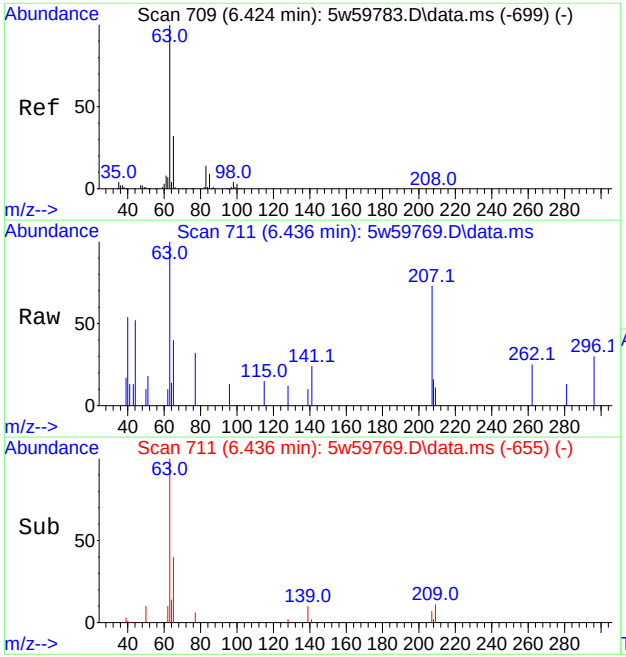


#38
HEXANE
Concen: 0.05 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 3894

Ion	Ratio	Lower	Upper
57	100		
56	51.6	25.9	85.9
41	90.7	74.7	134.7

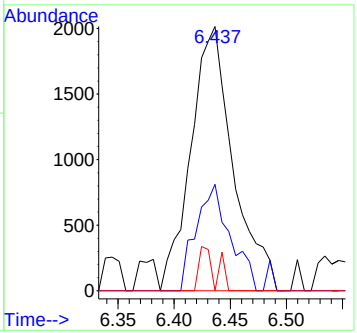


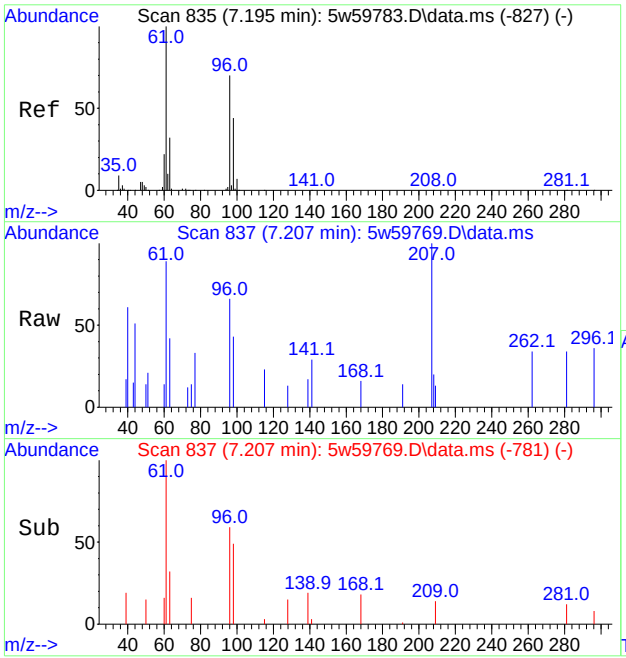


#40
1,1-DICHLOROETHANE
Concen: 0.06 PPBV
RT: 6.436 min Scan# 711
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 5305

Ion	Ratio	Lower	Upper
63	100		
65	32.5	1.7	61.7
83	6.6	0.0	43.5

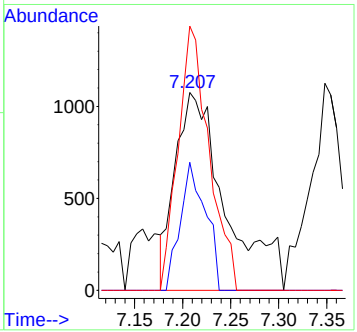


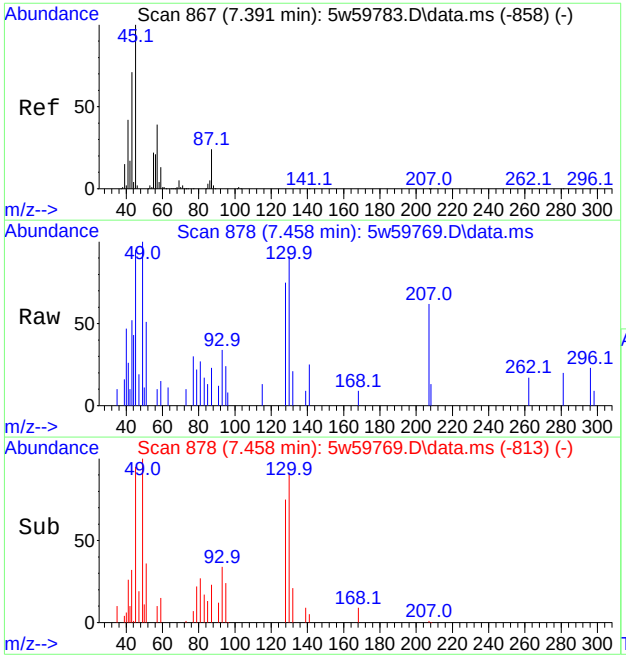


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.07 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 3901

Ion	Ratio	Lower	Upper
96	100		
98	32.6	34.0	94.0#
61	82.7	111.5	171.5#

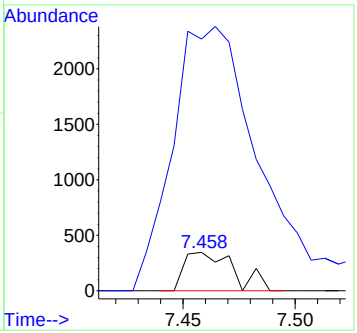


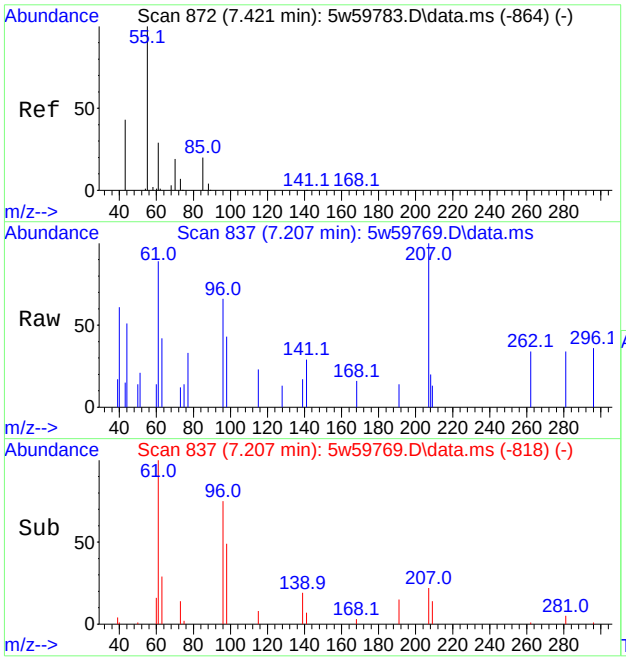


#43
DIISOPROPYL ETHER
Concen: 0.03 PPBV
RT: 7.458 min Scan# 878
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 536

Ion	Ratio	Lower	Upper
59	100		
45	1232.1	720.9	780.9#

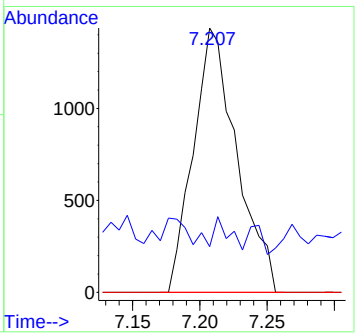


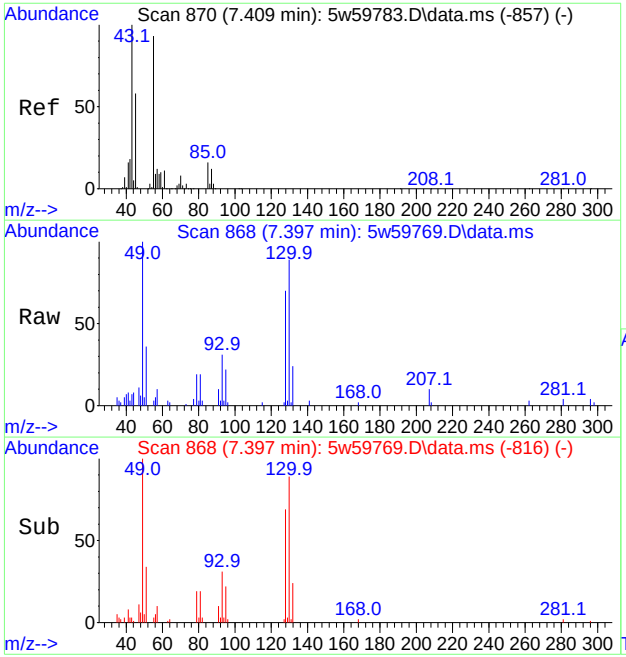


#44
ETHYL ACETATE
Concen: 0.23 PPBV
RT: 7.207 min Scan# 837
Delta R.T. -0.214 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 61 Resp: 3226

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	0.0	4.5	64.5#

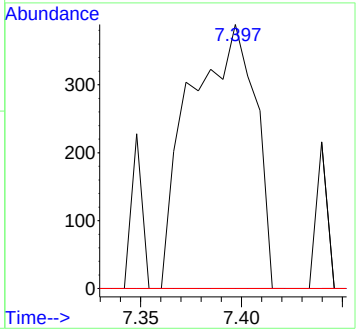


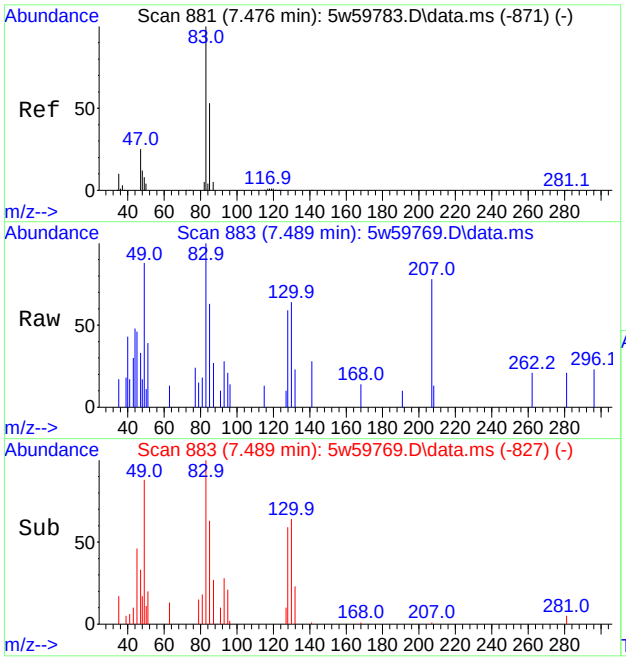


#45
METHYL ACRYLATE
Concen: 0.01 PPBV
RT: 7.397 min Scan# 868
Delta R.T. -0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 55 Resp: 878

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

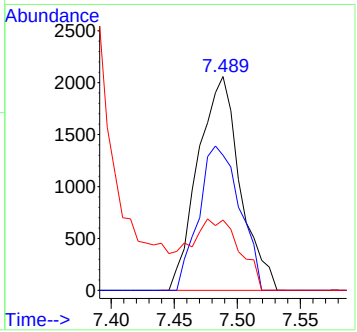


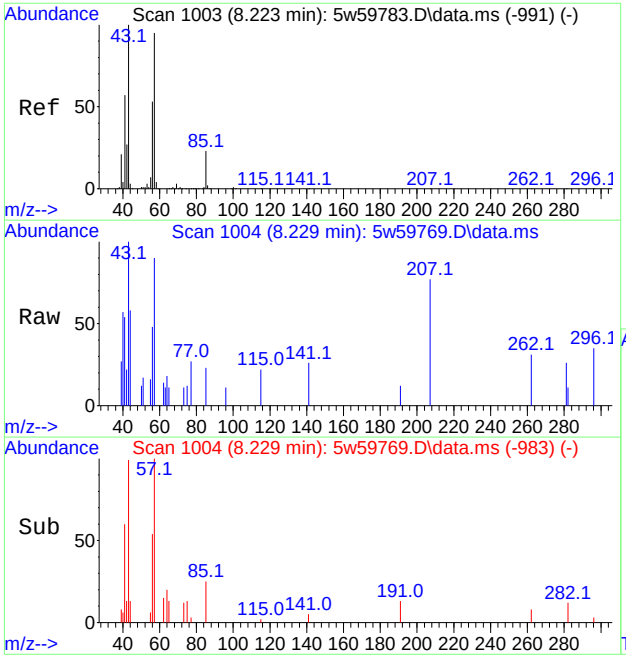


#46
CHLOROFORM
Concen: 0.05 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4783

Ion	Ratio	Lower	Upper
83	100		
85	65.9	35.6	95.6
47	0.0	0.0	55.2

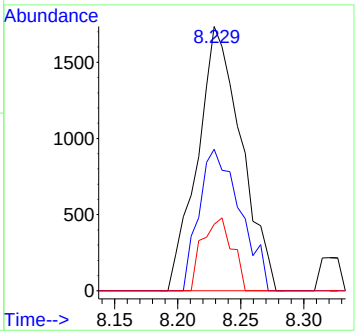


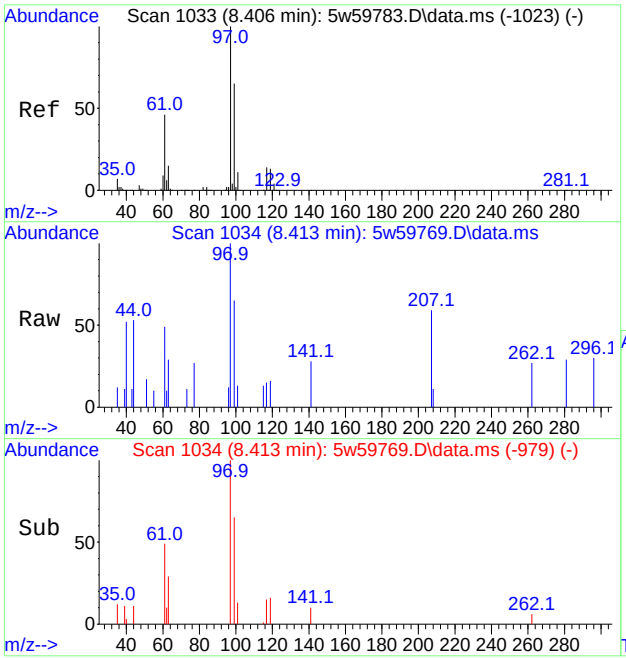


#47
2,4-DIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 4175

Ion	Ratio	Lower	Upper
57	100		
56	50.5	26.5	86.5
85	18.8	0.0	53.8

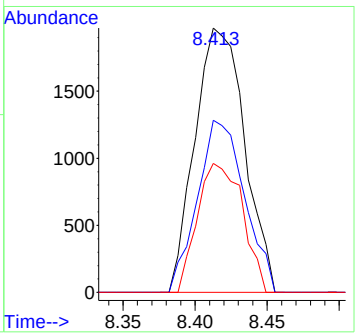


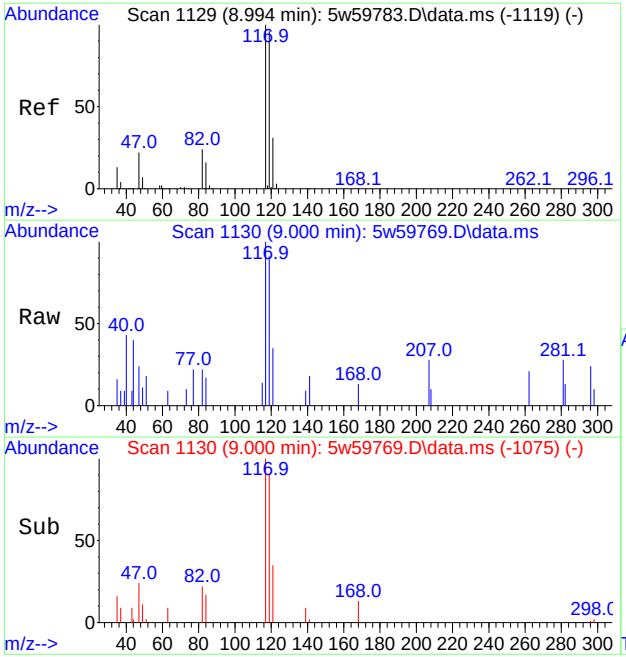


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 97 Resp: 4728

Ion	Ratio	Lower	Upper
97	100		
99	61.8	34.8	94.8
61	44.4	15.8	75.8

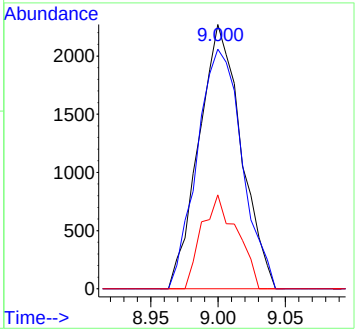


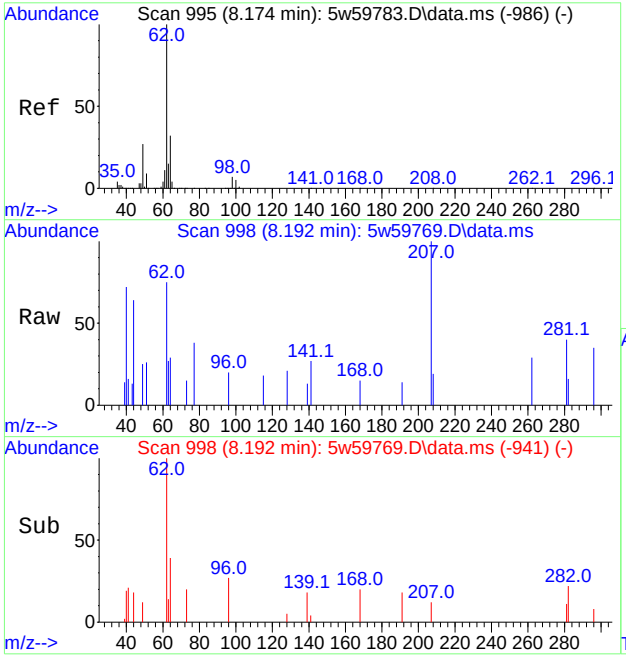


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4970

Ion	Ratio	Lower	Upper
117	100		
119	96.1	66.9	126.9
121	29.5	1.3	61.3

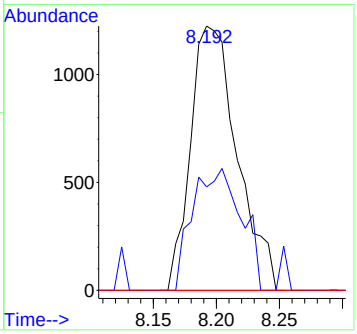


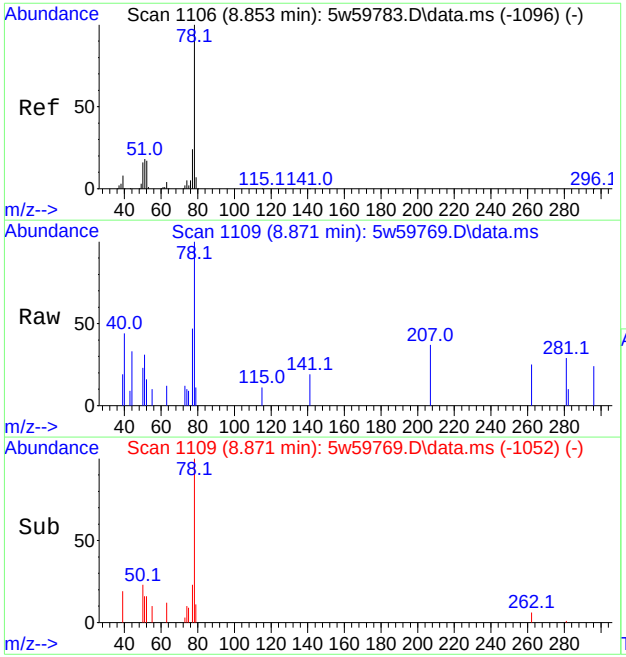


#50
1,2-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.192 min Scan# 998
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 3147

Ion	Ratio	Lower	Upper
62	100		
64	48.3	2.3	62.3
98	0.0	0.0	36.9

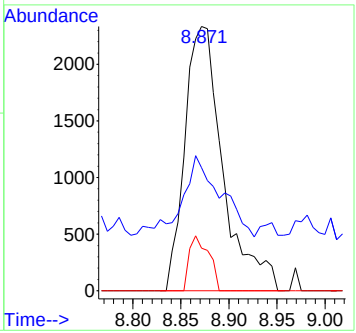


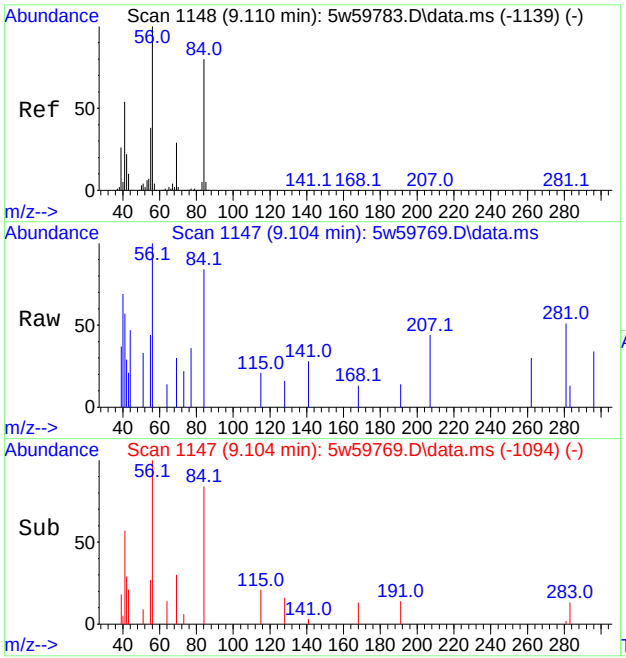


#52
BENZENE
Concen: 0.05 PPBV
RT: 8.871 min Scan# 1109
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 78 Resp: 6471

Ion	Ratio	Lower	Upper
78	100		
77	31.7	0.0	53.8
52	10.6	0.0	46.9

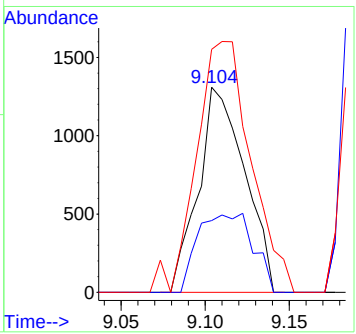


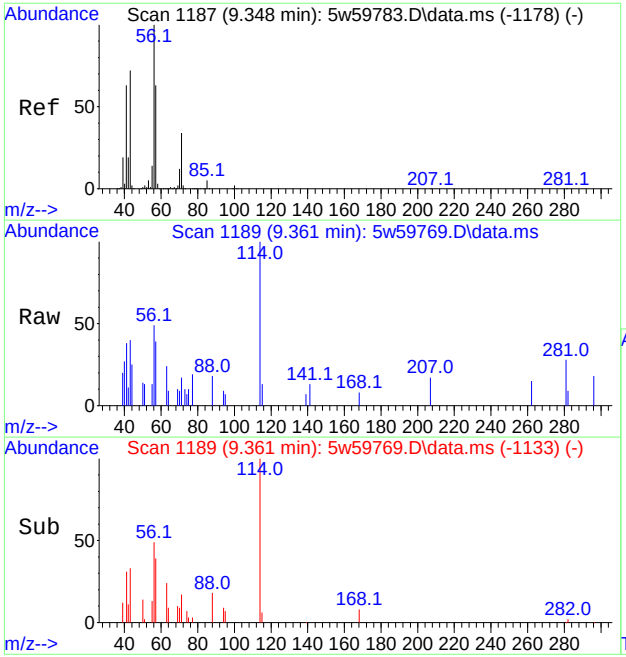


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2517

Ion	Ratio	Lower	Upper
84	100		
69	45.4	6.9	66.9
56	143.8	98.2	158.2

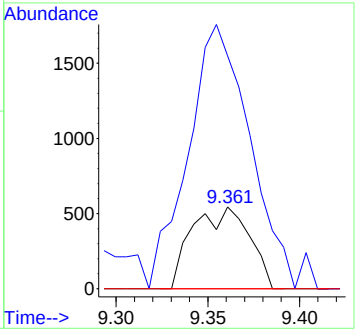


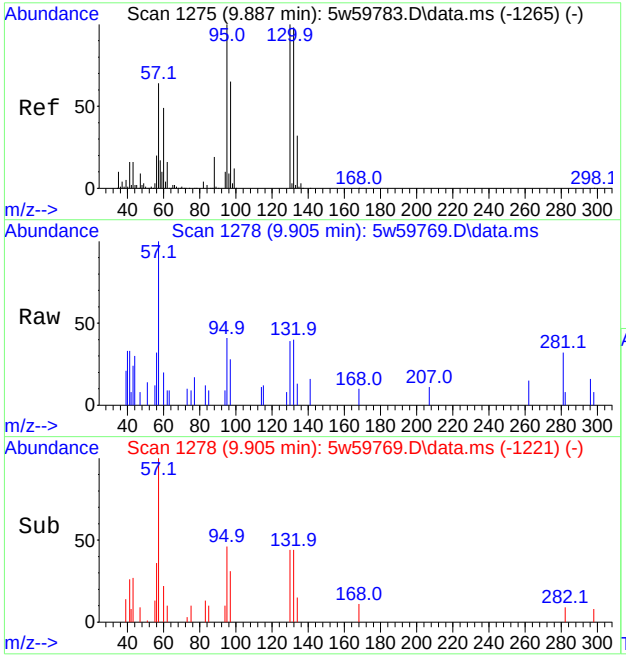


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 71 Resp: 1176

Ion	Ratio	Lower	Upper
71	100		
56	356.8	264.6	324.6#
85	0.0	0.0	45.3

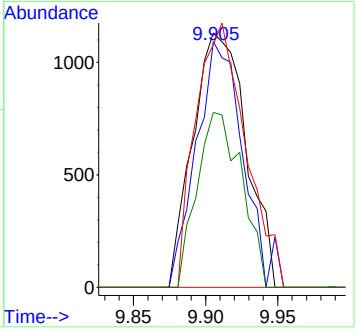


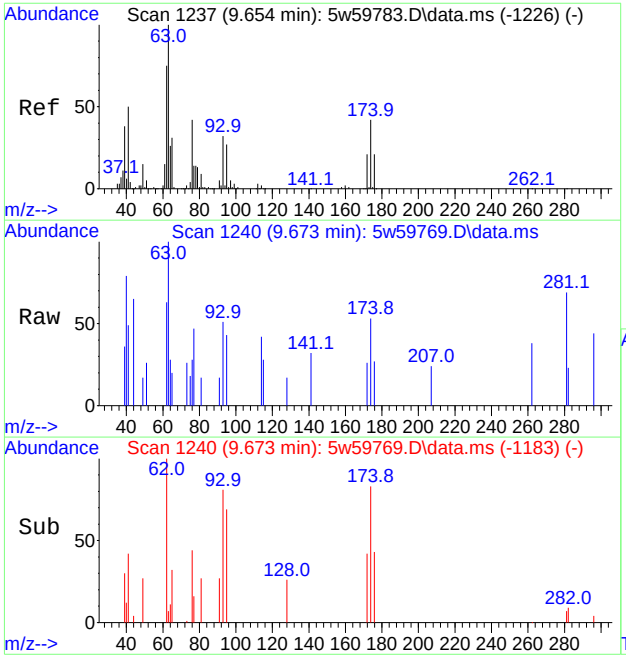


#55
TRICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 9.905 min Scan# 1278
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 95 Resp: 2913

Ion	Ratio	Lower	Upper
95	100		
132	84.8	69.0	129.0
130	97.2	70.6	130.6
97	57.5	34.6	94.6

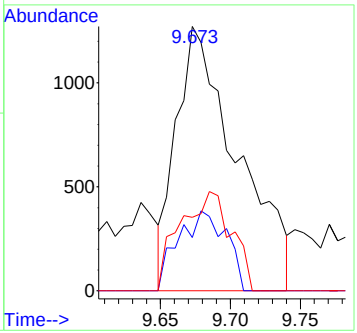


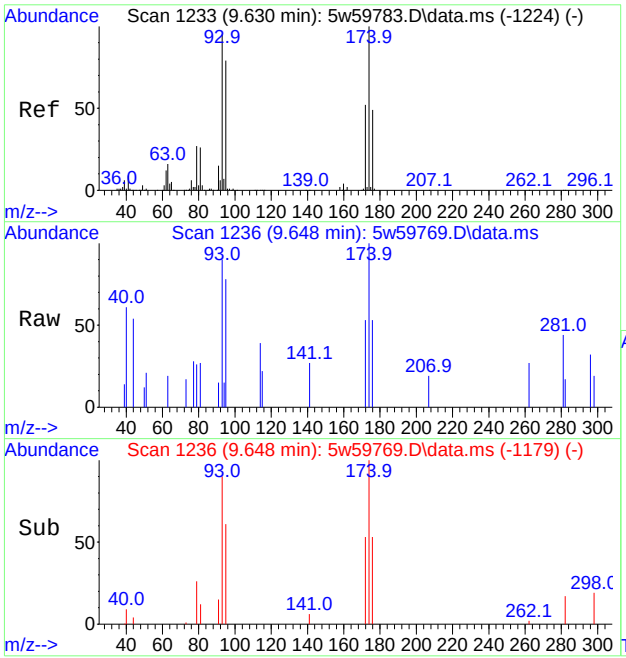


#56
1,2-DICHLOROPROPANE
Concen: 0.06 PPBV m
RT: 9.673 min Scan# 1240
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 3887

Ion	Ratio	Lower	Upper
63	100		
65	23.5	0.5	60.5
76	31.3	11.5	71.5

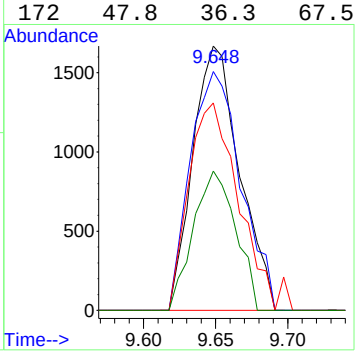


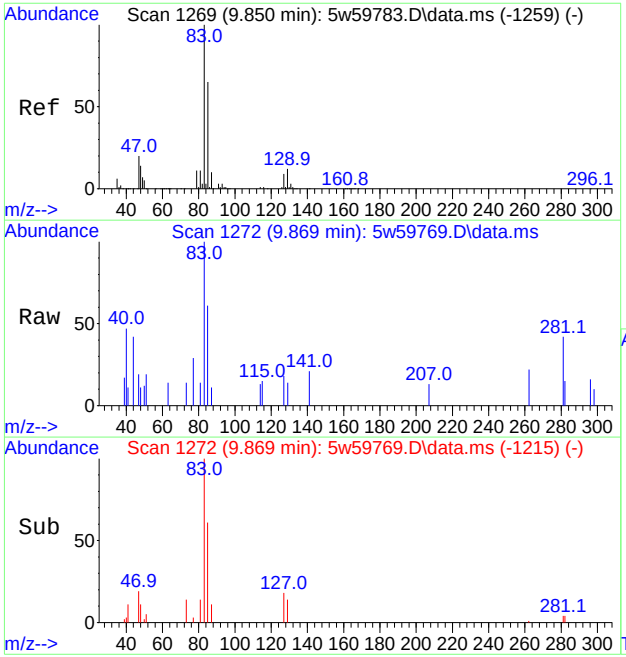


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:174 Resp: 3768

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	84.4	54.5	101.1
172	47.8	36.3	67.5

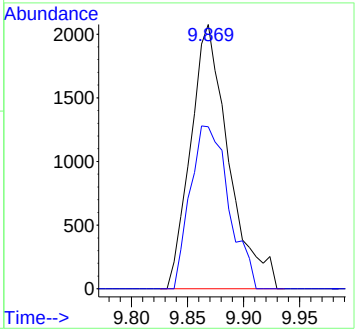


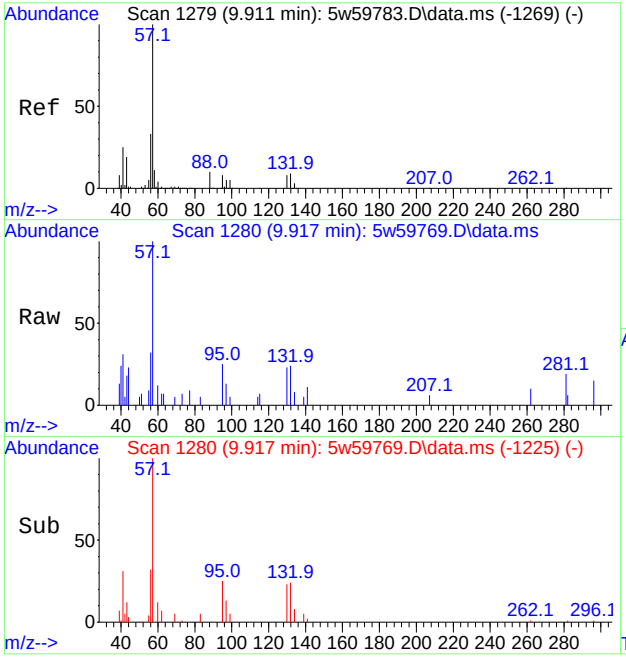


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 9.869 min Scan# 1272
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4912

Ion	Ratio	Lower	Upper
83	100		
85	62.2	33.4	93.4

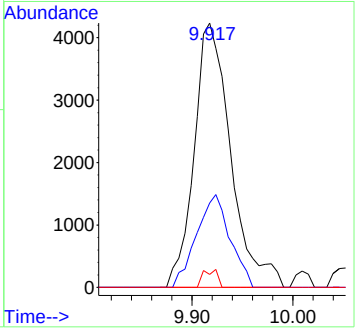


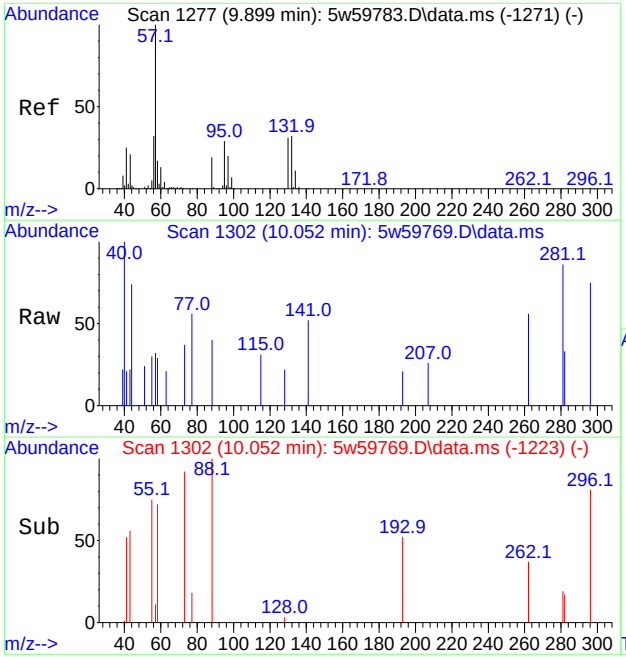


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 10699

Ion	Ratio	Lower	Upper
57	100		
56	32.2	2.5	62.5
99	2.6	0.0	37.3

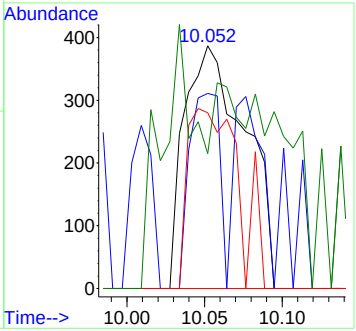


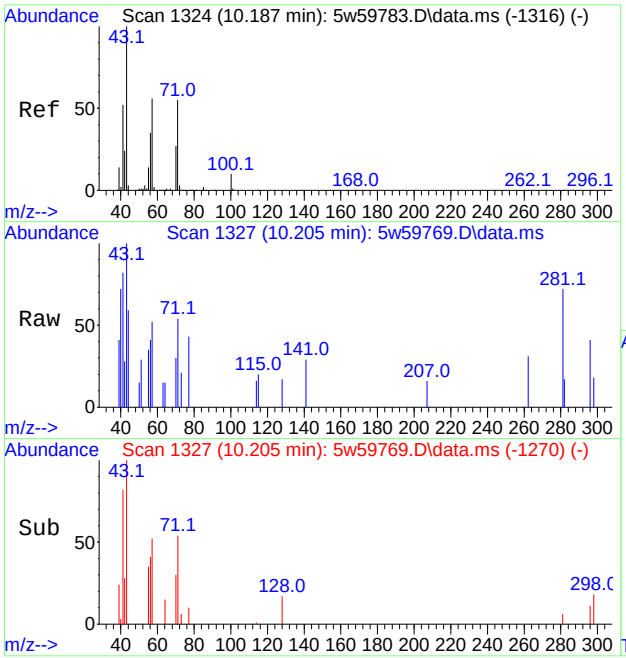


#61
1,4-DIOXANE
Concen: 0.03 PPBV
RT: 10.052 min Scan# 1302
Delta R.T. 0.153 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 88 Resp: 1059

Ion	Ratio	Lower	Upper
88	100		
57	80.4	494.2	554.2#
58	72.4	58.9	118.9
43	55.6	78.3	138.3#

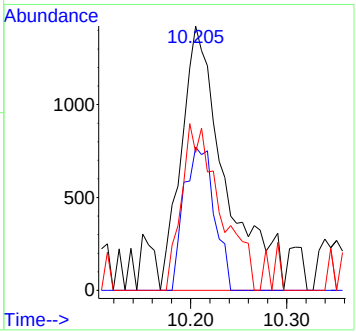


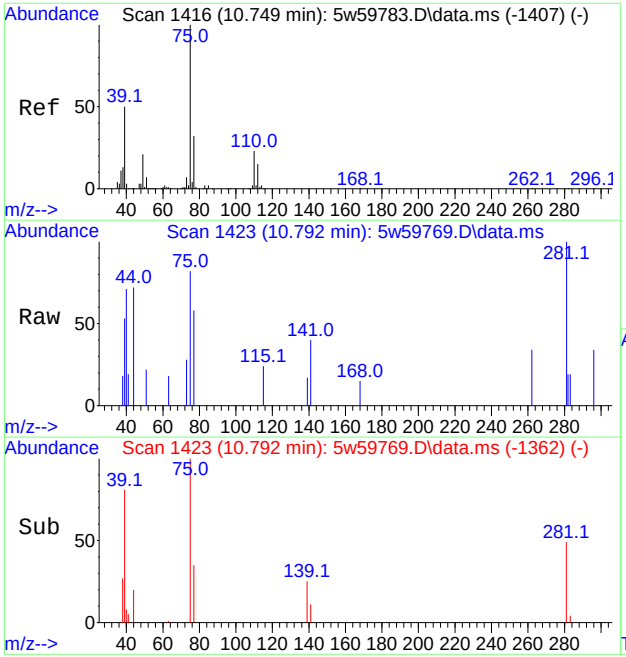


#62
HEPTANE
Concen: 0.06 PPBV
RT: 10.205 min Scan# 1327
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 4522

Ion	Ratio	Lower	Upper
43	100		
71	37.6	24.5	84.5
57	55.7	26.2	86.2

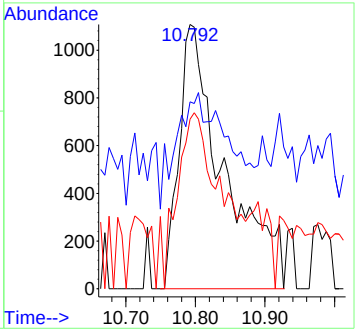


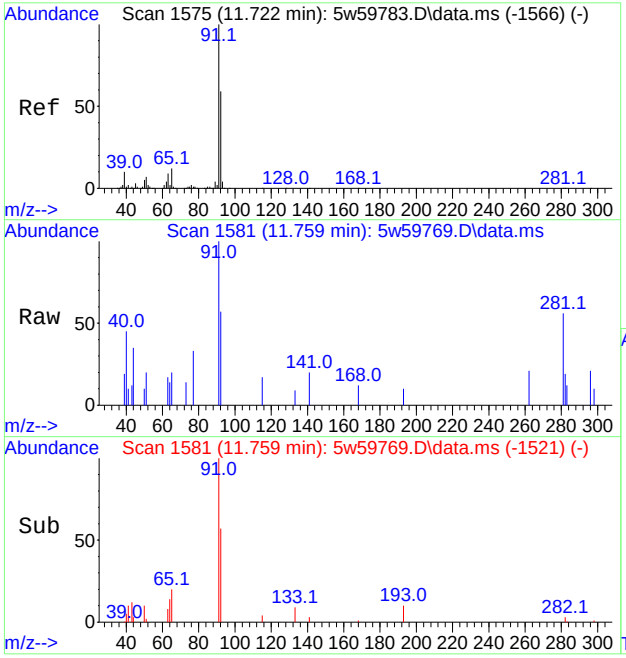


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4969

Ion	Ratio	Lower	Upper
75	100		
77	49.8	2.2	62.2
39	78.5	34.3	94.3

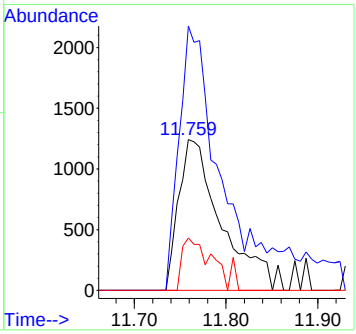


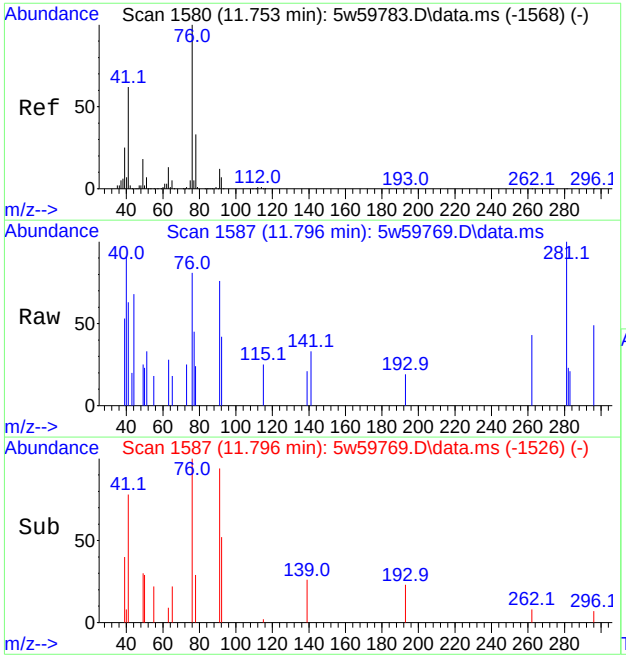


#66
TOLUENE
Concen: 0.04 PPBV
RT: 11.759 min Scan# 1581
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 92 Resp: 4059

Ion	Ratio	Lower	Upper
92	100		
91	195.5	140.1	200.1
65	22.8	0.0	53.1

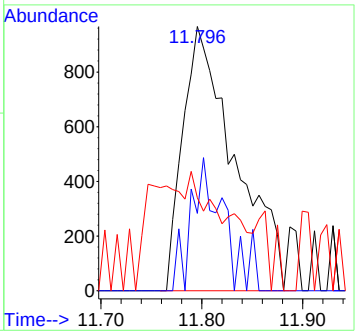


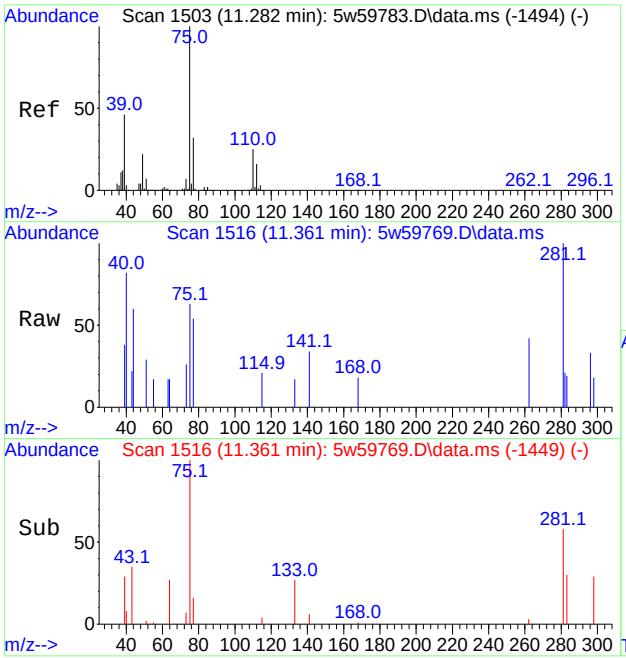


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 11.796 min Scan# 1587
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 3478

Ion	Ratio	Lower	Upper
76	100		
78	27.2	23.2	43.0
63	71.6	7.1	13.1#

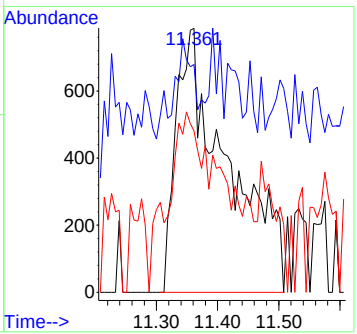


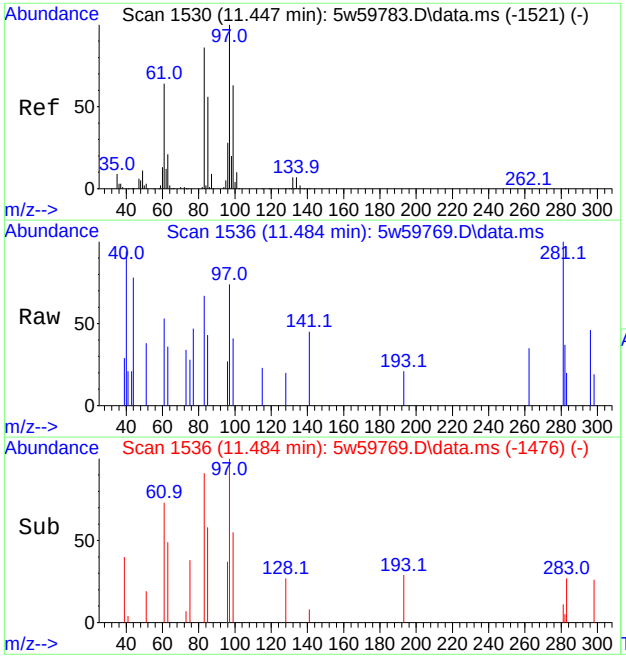


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 11.361 min Scan# 1516
Delta R.T. 0.079 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4586

Ion	Ratio	Lower	Upper
75	100		
77	16.9	1.6	61.6
39	35.7	16.1	76.1

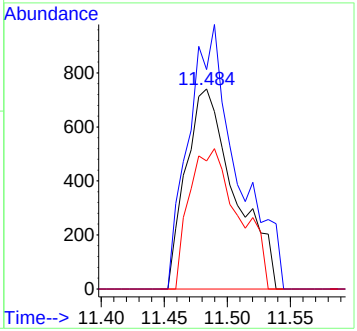


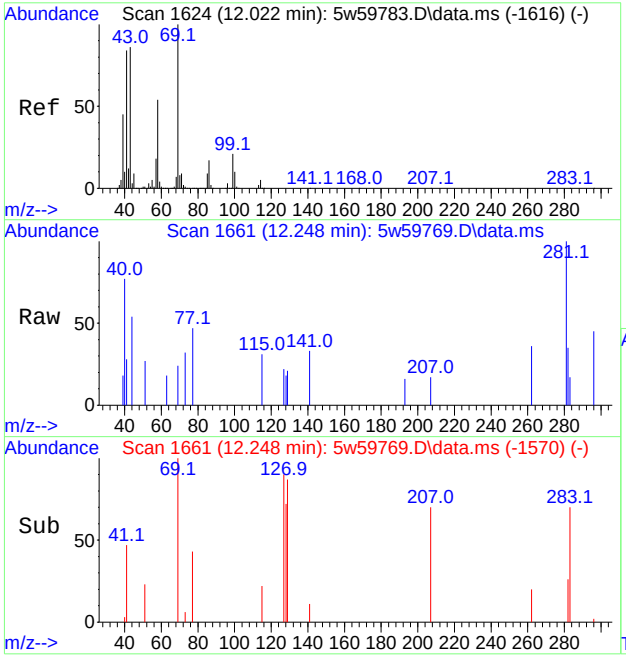


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 11.484 min Scan# 1536
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 2006

Ion	Ratio	Lower	Upper
83	100		
97	130.6	86.3	146.3
85	70.5	35.3	95.3

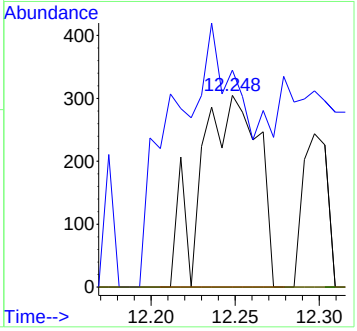


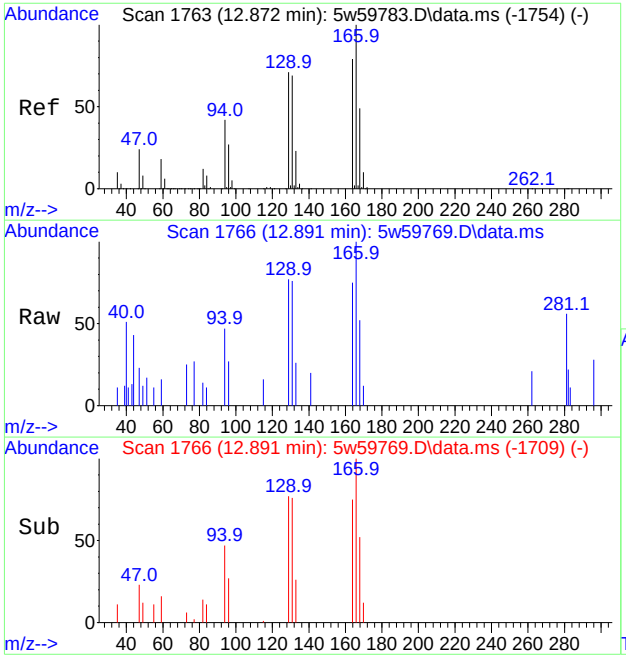


#72
ETHYL METHACRYLATE
Concen: 0.01 PPBV
RT: 12.248 min Scan# 1661
Delta R.T. 0.226 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 69 Resp: 735

Ion	Ratio	Lower	Upper
69	100		
41	291.7	64.0	119.0#
86	0.0	12.0	22.4#
99	0.0	15.0	27.8#

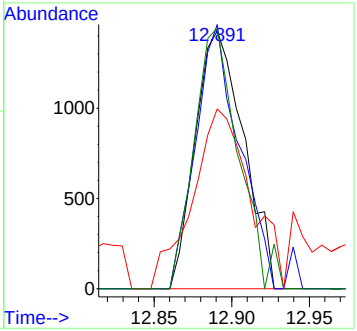


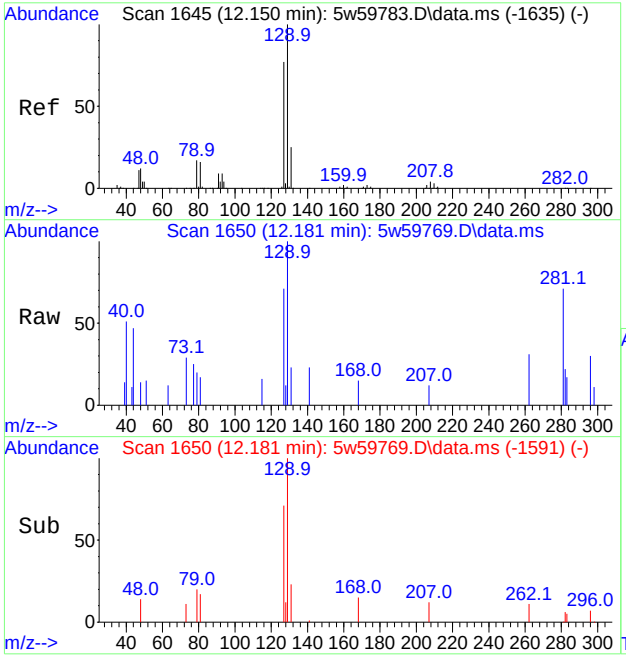


#73
TETRACHLOROETHYLENE
Concen: 0.04 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:164 Resp: 3089

Ion	Ratio	Lower	Upper
164	100		
129	93.4	59.7	119.7
168	83.4	32.2	92.2
131	92.9	57.8	117.8

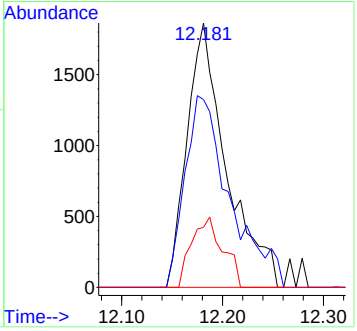


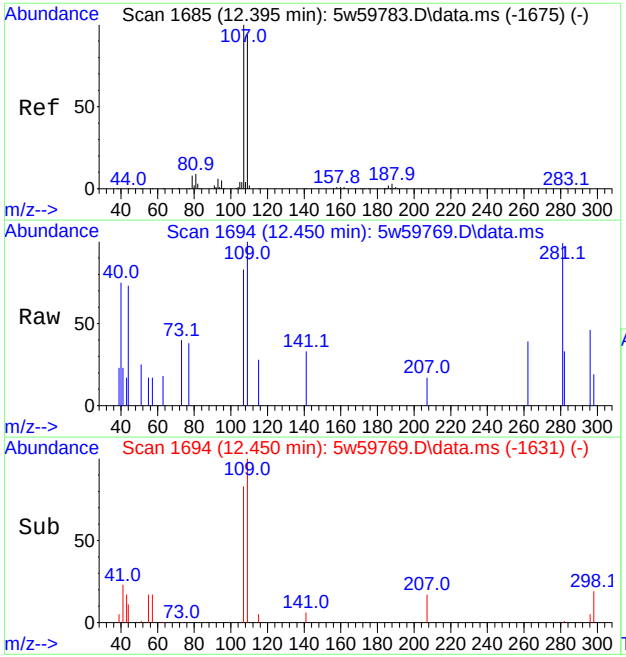


#74
DIBROMOCHLOROMETHANE
Concen: 0.04 PPBV
RT: 12.181 min Scan# 1650
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:129 Resp: 5067

Ion	Ratio	Lower	Upper
129	100		
127	82.7	47.1	107.1
131	21.0	0.0	54.5

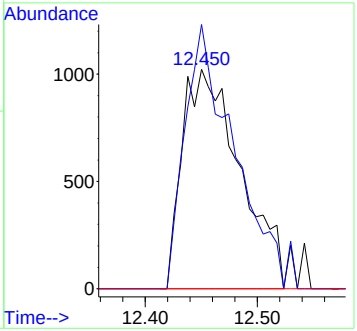


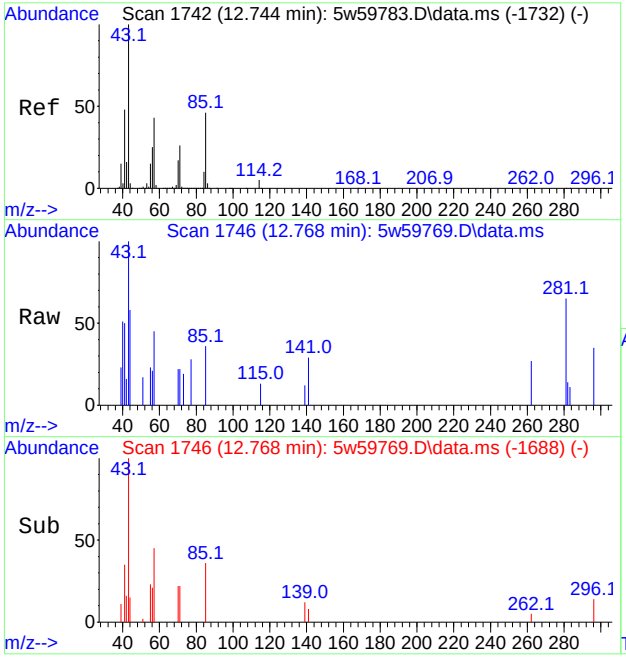


#75
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 12.450 min Scan# 1694
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:107 Resp: 3668

Ion	Ratio	Lower	Upper
107	100		
109	103.5	64.8	124.8
188	0.0	0.0	32.8

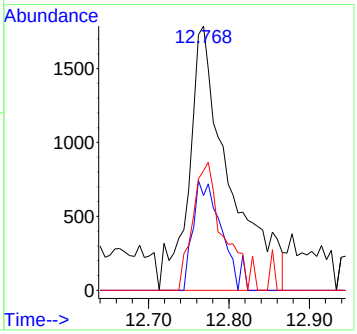


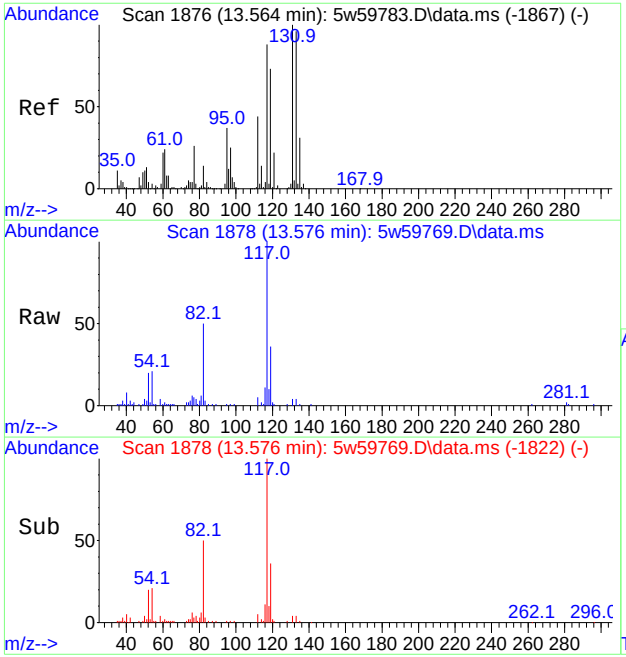


#76
OCTANE
Concen: 0.07 PPBV m
RT: 12.768 min Scan# 1746
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 6243

Ion	Ratio	Lower	Upper
43	100		
85	29.3	14.6	74.6
57	37.0	13.7	73.7

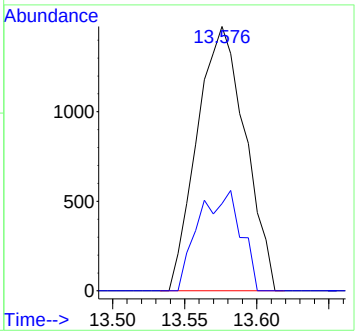


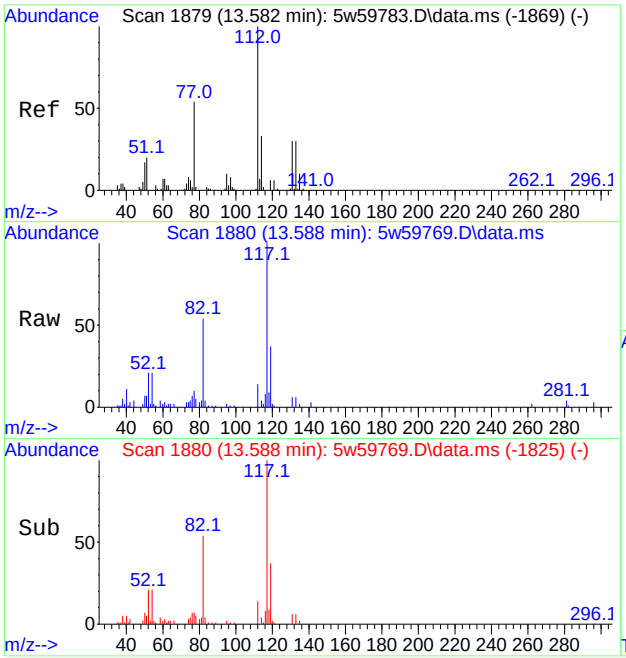


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:131 Resp: 3434

Ion	Ratio	Lower	Upper
131	100		
95	33.4	6.5	66.5

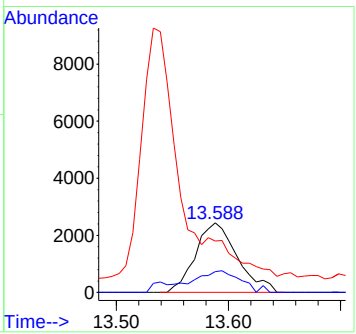


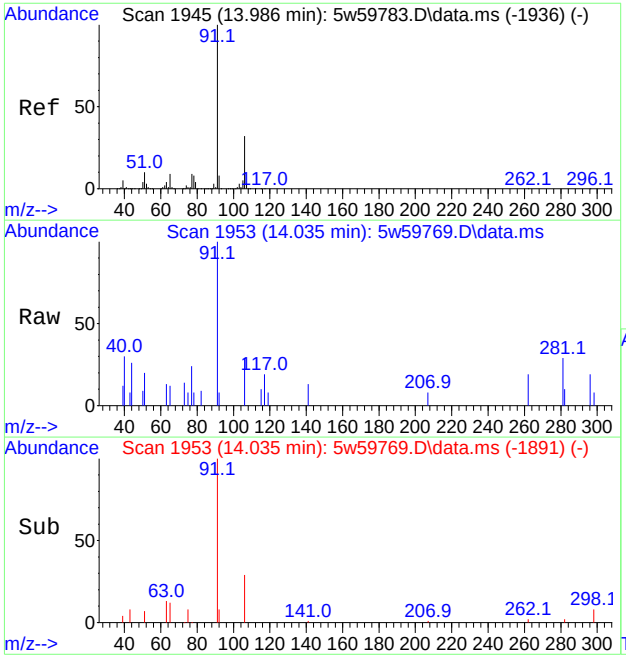


#78
CHLOROBENZENE
Concen: 0.05 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:112 Resp: 6320

Ion	Ratio	Lower	Upper
112	100		
114	30.4	2.6	62.6
77	0.0	25.4	85.4#

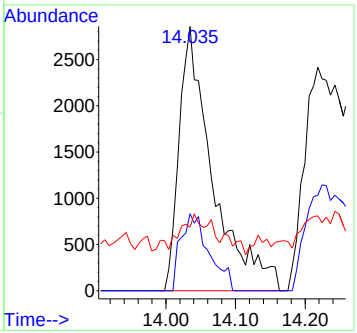


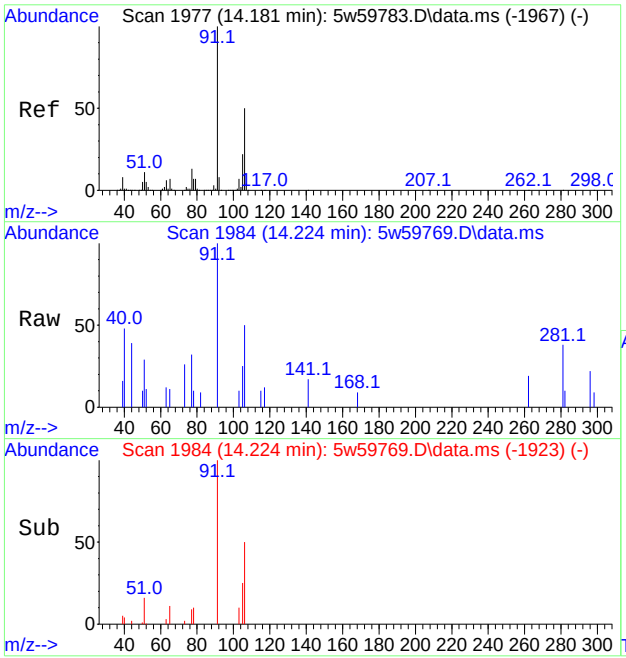


#79
ETHYLBENZENE
Concen: 0.05 PPBV
RT: 14.035 min Scan# 1953
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 9593

Ion	Ratio	Lower	Upper
91	100		
106	24.4	1.3	61.3
77	16.4	0.0	38.6

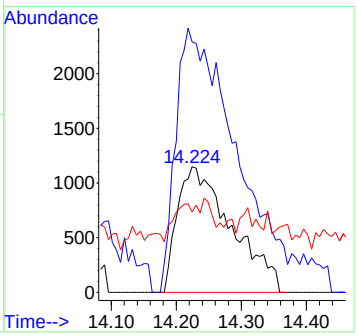


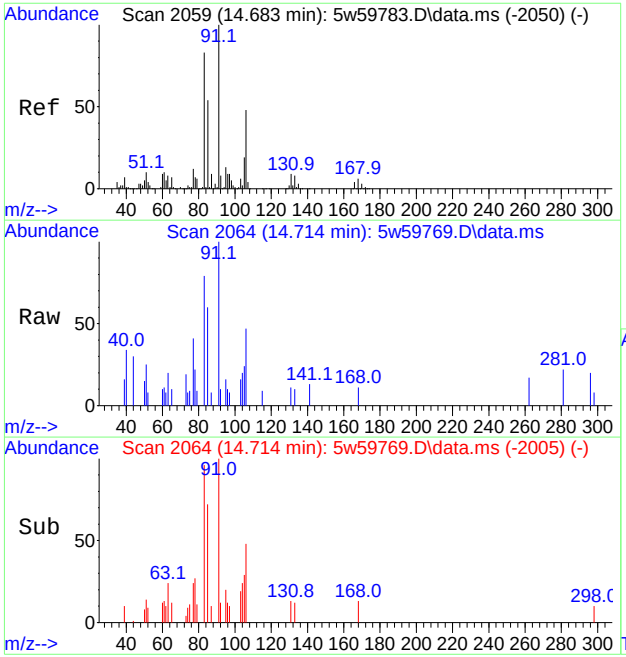


#80
m,p-XYLENE
Concen: 0.08 PPBV
RT: 14.224 min Scan# 1984
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 6608

Ion	Ratio	Lower	Upper
106	100		
91	199.7	171.0	231.0
77	64.2	0.0	56.7#

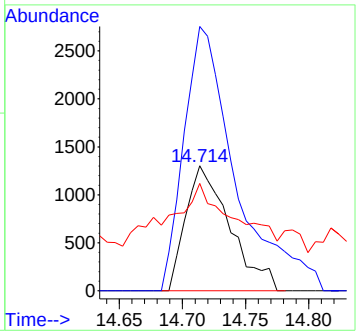


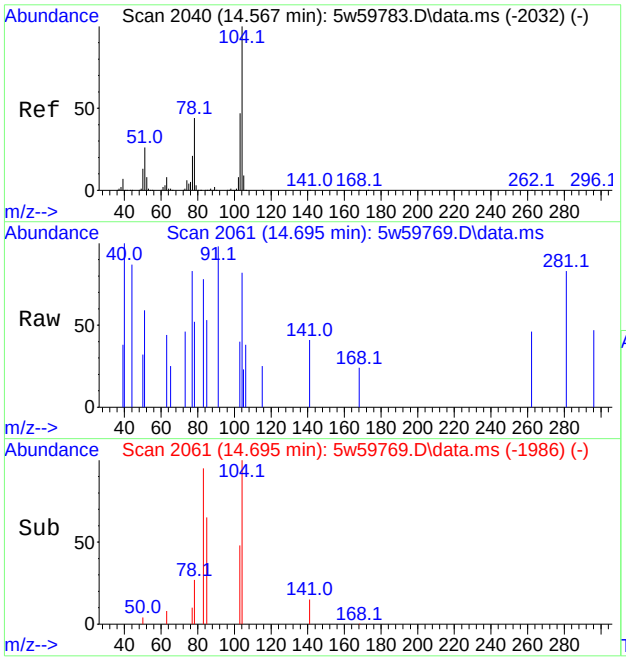


#81
o-XYLENE
Concen: 0.04 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 3154

Ion	Ratio	Lower	Upper
106	100		
91	249.6	181.6	241.6#
77	92.1	0.0	56.6#

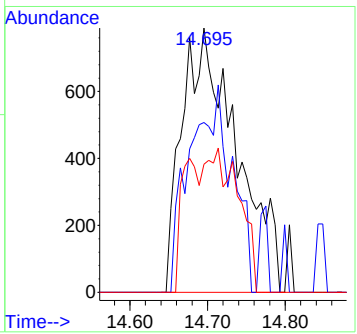


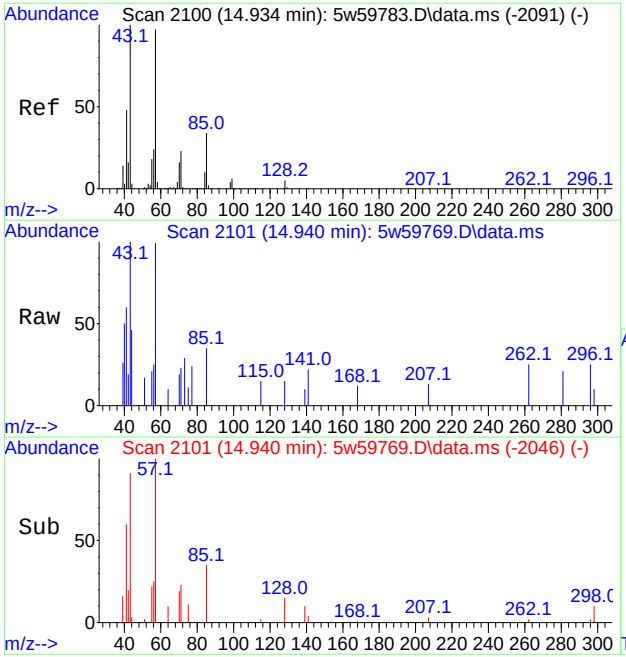


#82
STYRENE
Concen: 0.03 PPBV
RT: 14.695 min Scan# 2061
Delta R.T. 0.128 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:104 Resp: 3881

Ion	Ratio	Lower	Upper
104	100		
78	60.7	13.3	73.3
103	51.1	17.2	77.2

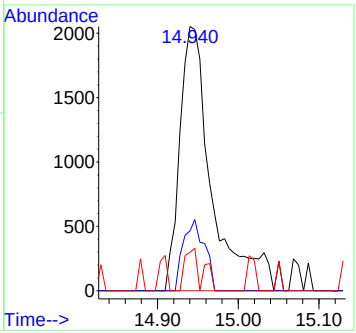


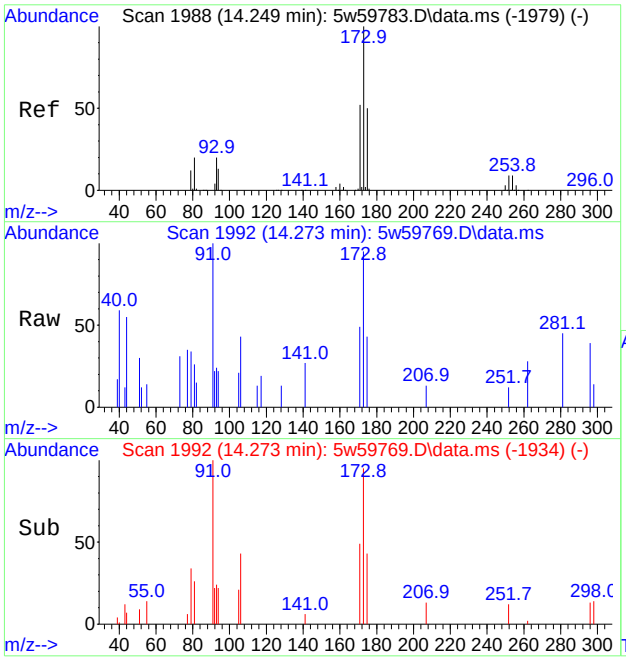


#83
NONANE
Concen: 0.06 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 5771

Ion	Ratio	Lower	Upper
43	100		
71	17.4	0.0	52.7
128	5.8	0.0	34.7

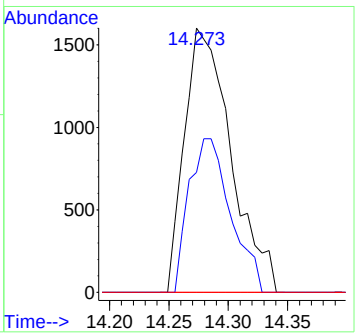


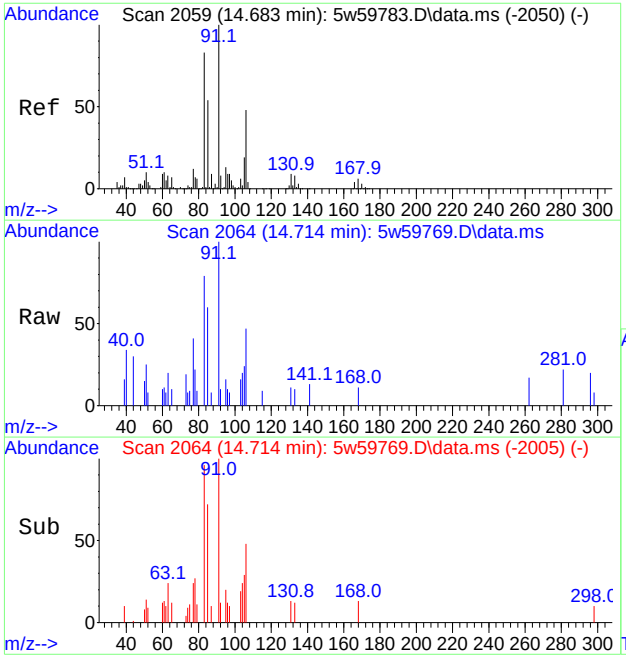


#84
BROMOFORM
Concen: 0.04 PPBV
RT: 14.273 min Scan# 1992
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:173 Resp: 4371

Ion	Ratio	Lower	Upper
173	100		
175	52.0	19.6	79.6
254	0.0	0.0	39.0

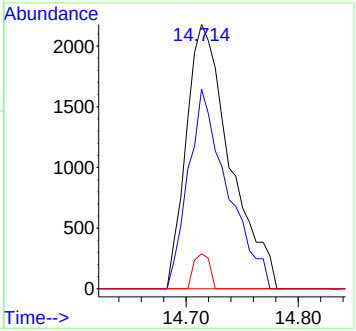


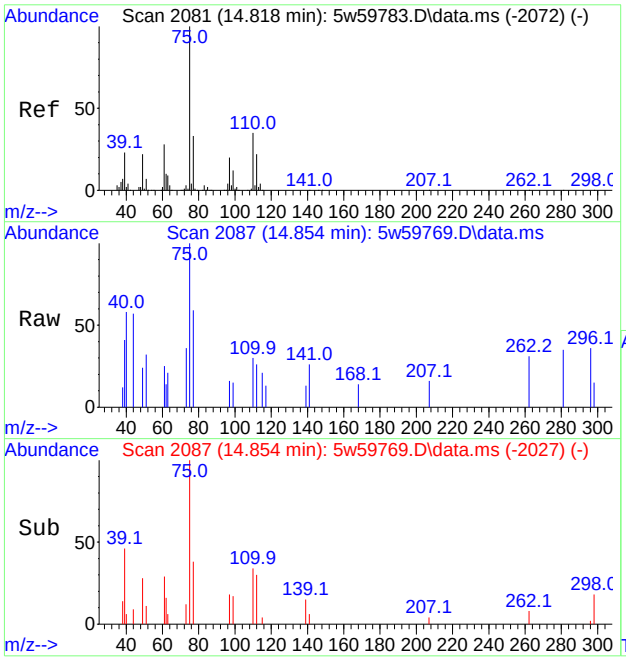


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.05 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 5918

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	4.8	0.0	40.3

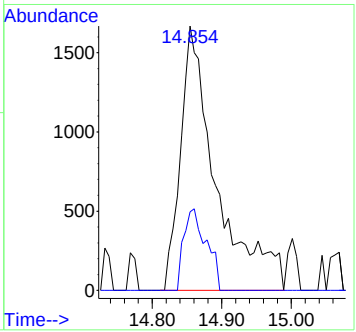


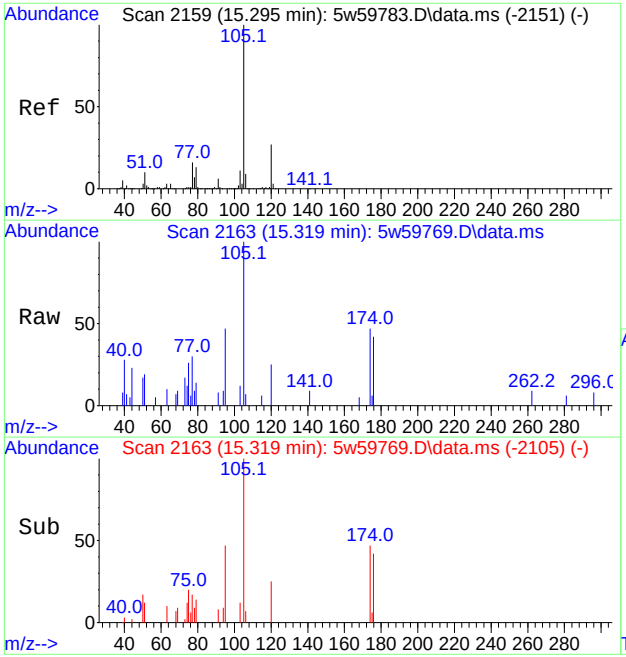


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.06 PPBV
RT: 14.854 min Scan# 2087
Delta R.T. 0.036 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 5967

Ion	Ratio	Lower	Upper
75	100		
110	19.5	4.4	64.4

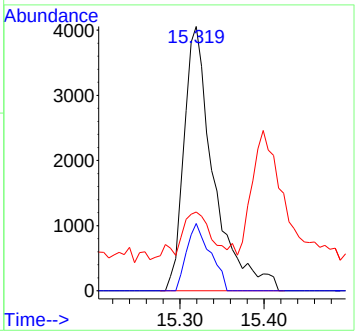


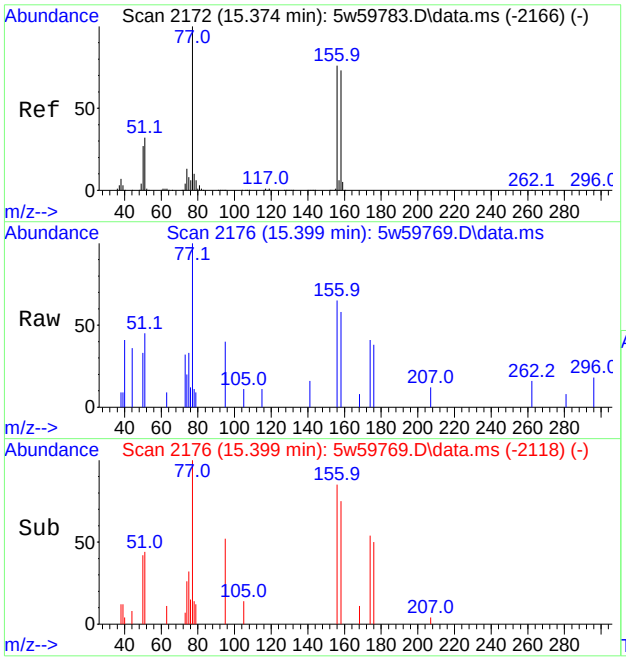


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.319 min Scan# 2163
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9953

Ion	Ratio	Lower	Upper
105	100		
120	20.2	0.0	56.0
77	22.4	0.0	45.6

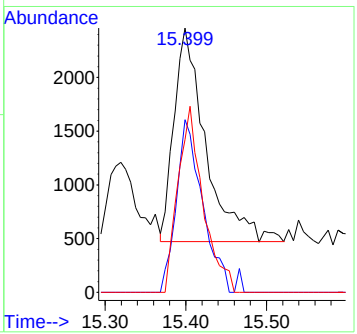


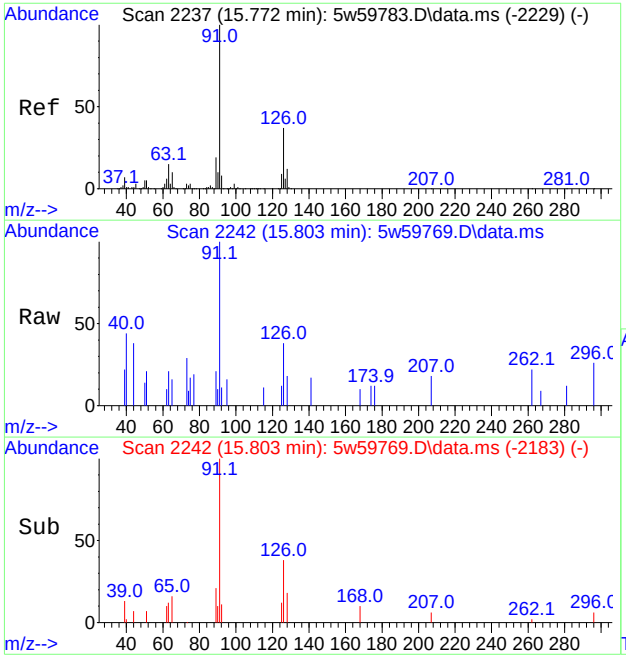


#89
BROMOBENZENE
Concen: 0.05 PPBV
RT: 15.399 min Scan# 2176
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 77 Resp: 5423

Ion	Ratio	Lower	Upper
77	100		
156	66.4	54.9	101.9
158	69.0	53.5	99.3

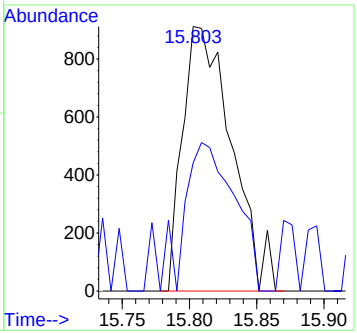


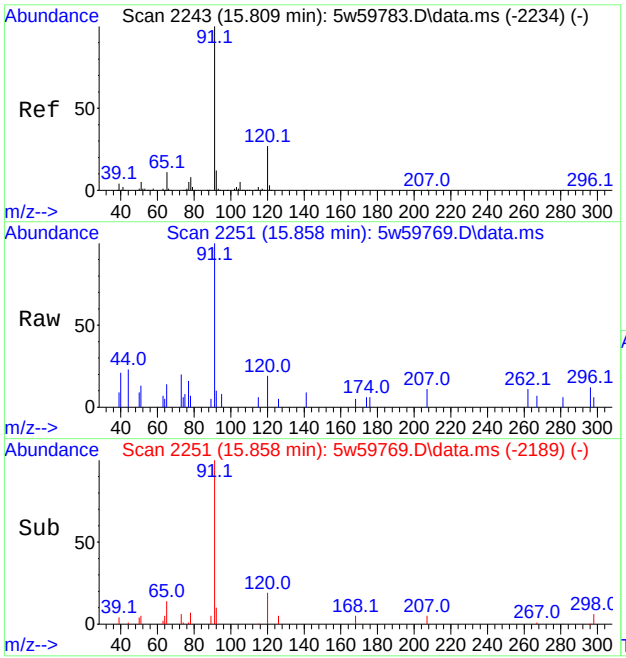


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 15.803 min Scan# 2242
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:126 Resp: 2313

Ion	Ratio	Lower	Upper
126	100		
128	53.8	2.7	62.7

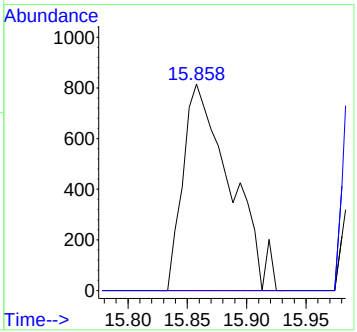


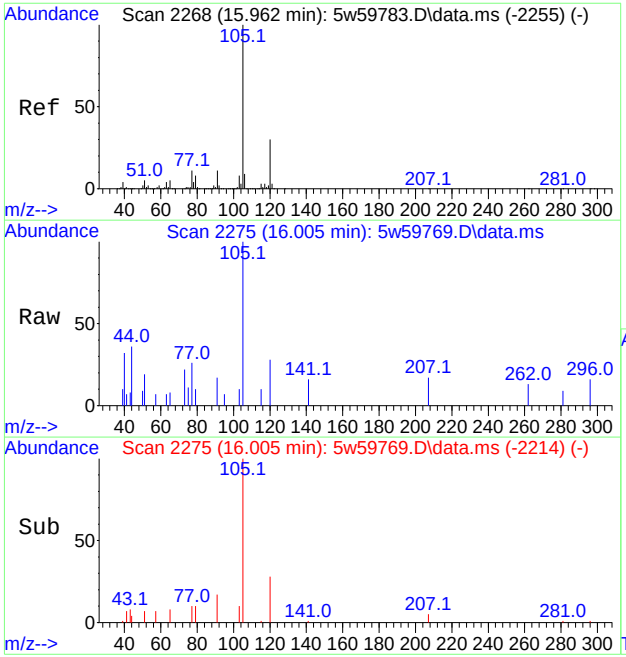


#91
n-PROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.858 min Scan# 2251
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:120 Resp: 2252

Ion	Ratio	Lower	Upper
120	100		
105	0.0	0.0	47.0

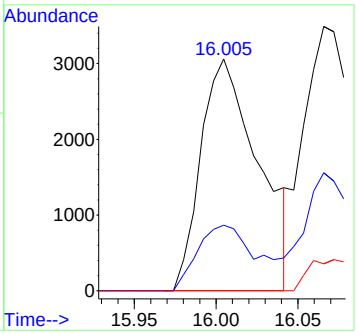


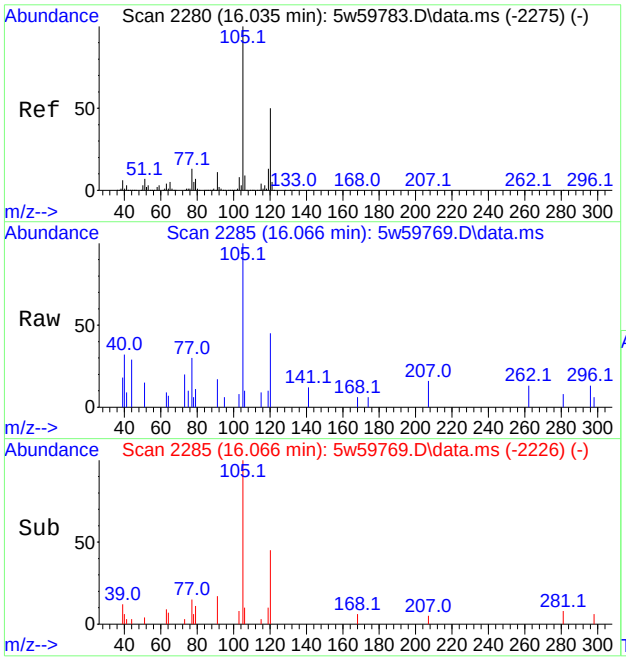


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV m
RT: 16.005 min Scan# 2275
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 7489

Ion	Ratio	Lower	Upper
105	100		
120	55.0	0.0	59.9
119	12.2	0.0	32.3

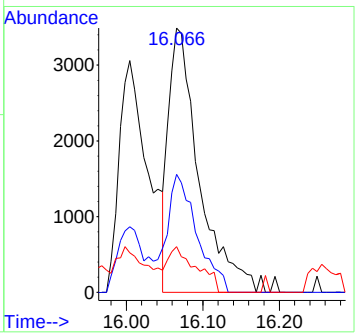


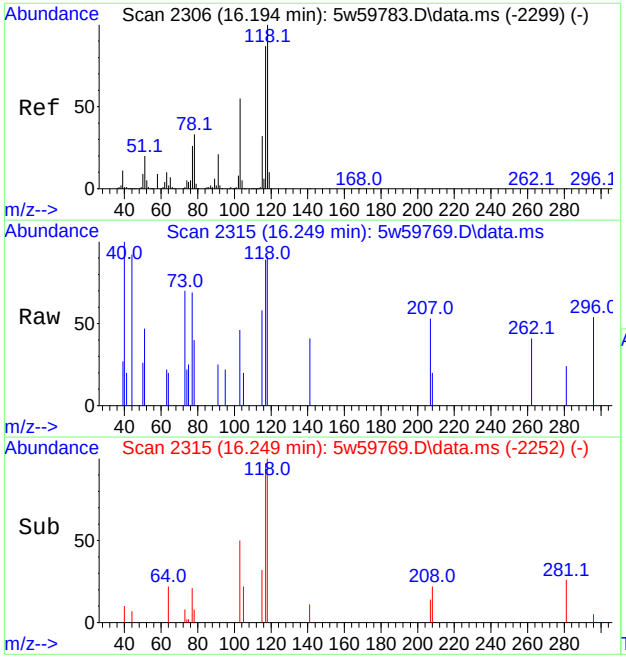


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.05 PPBV m
RT: 16.066 min Scan# 2285
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9751

Ion	Ratio	Lower	Upper
105	100		
120	23.3	19.4	79.4
91	17.0	0.0	40.8

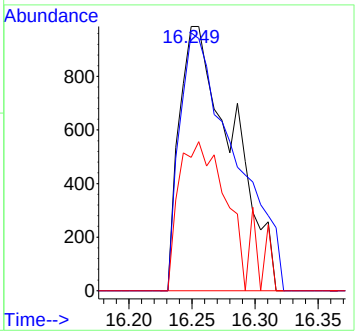


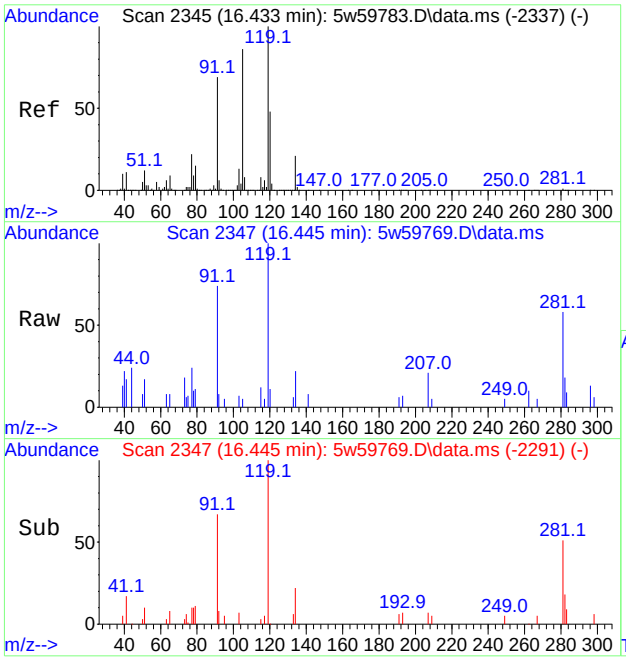


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.249 min Scan# 2315
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:118 Resp: 2895

Ion	Ratio	Lower	Upper
118	100		
117	100.8	60.9	113.1
103	48.7	38.6	71.8

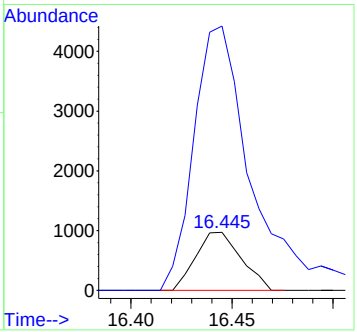


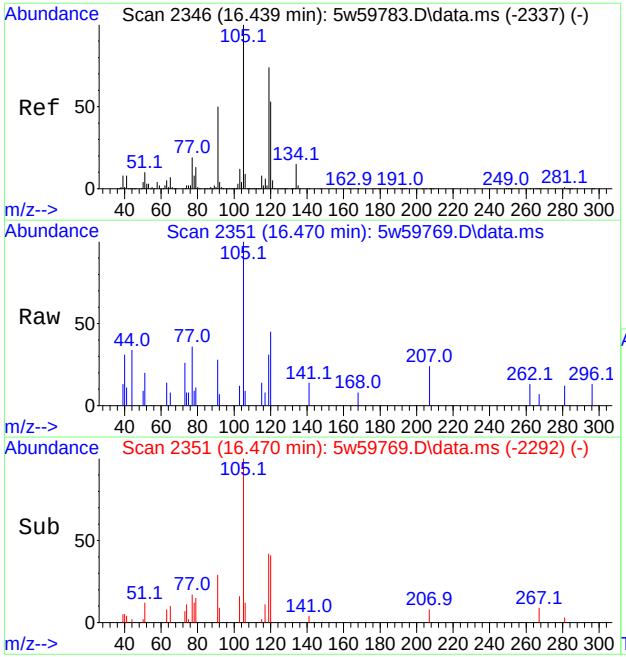


#95
tert-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1525

Ion	Ratio	Lower	Upper
134	100		
119	590.2	459.3	519.3#

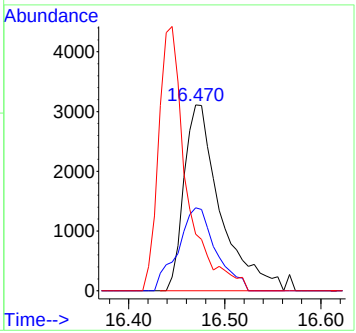


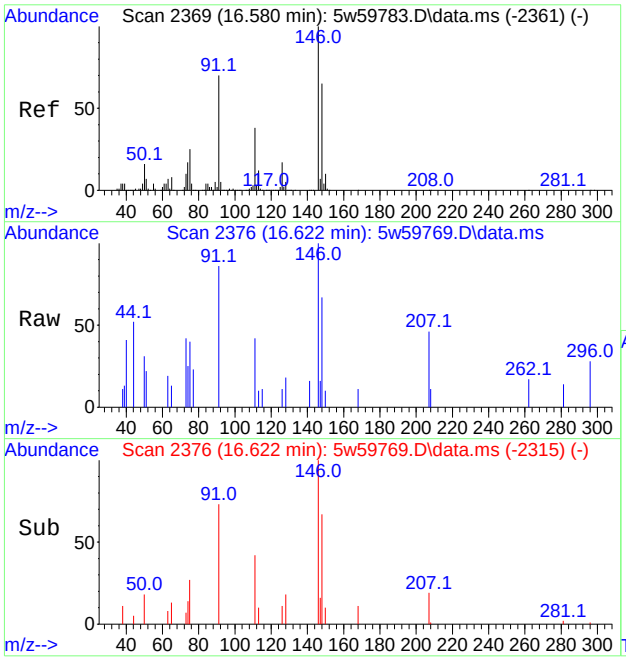


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.05 PPBV
RT: 16.470 min Scan# 2351
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8180

Ion	Ratio	Lower	Upper
105	100		
120	46.7	25.7	85.7
119	0.0	75.7	135.7#

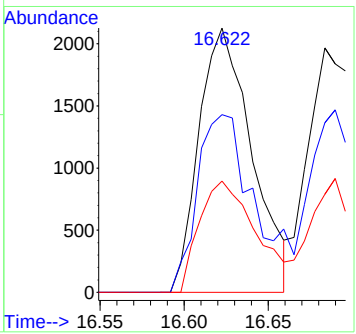


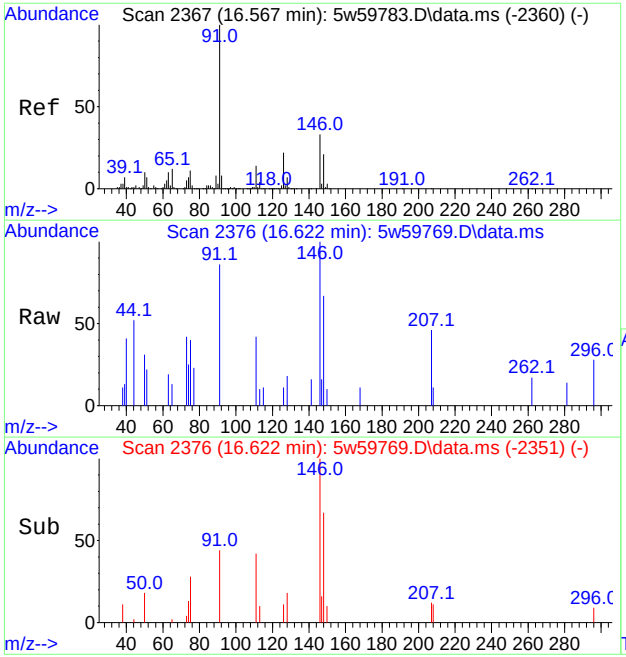


#97
m-DICHLOROBENZENE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.042 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 4669

Ion	Ratio	Lower	Upper
146	100		
148	73.3	34.8	94.8
111	44.7	8.2	68.2

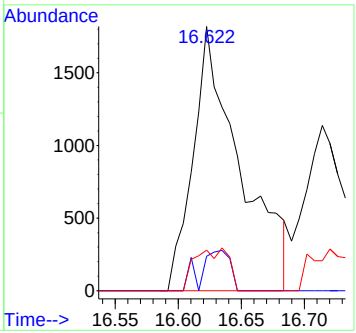


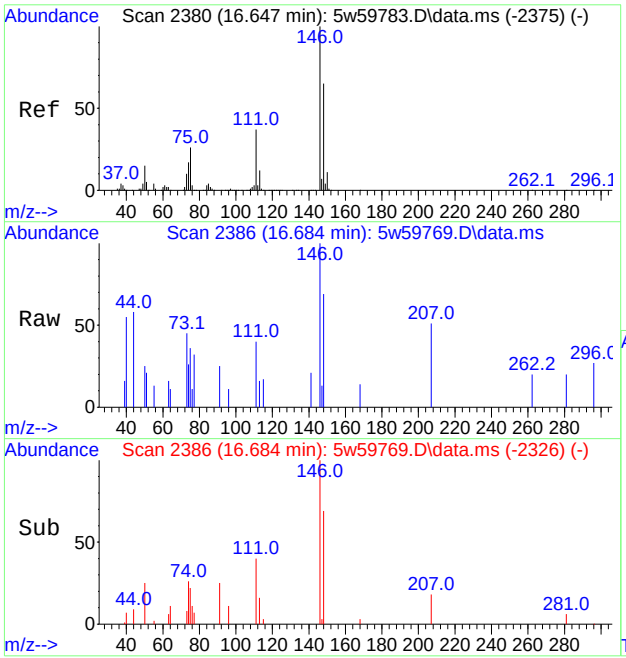


#98
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 4703

Ion	Ratio	Lower	Upper
91	100		
126	9.6	0.0	51.7
65	11.6	0.0	42.2

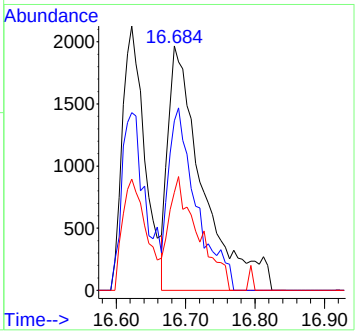


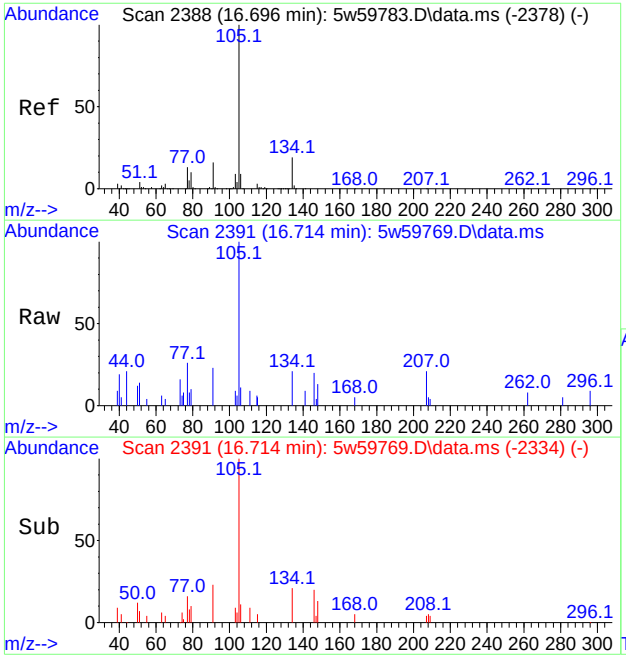


#99
p-DICHLOROBENZENE
Concen: 0.05 PPBV m
RT: 16.684 min Scan# 2386
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 6829

Ion	Ratio	Lower	Upper
146	100		
148	50.1	34.6	94.6
111	30.5	6.7	66.7

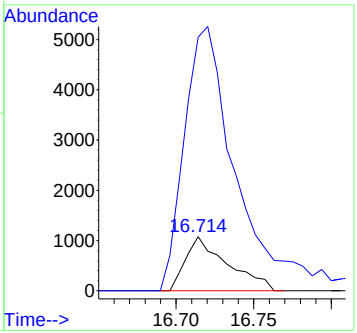


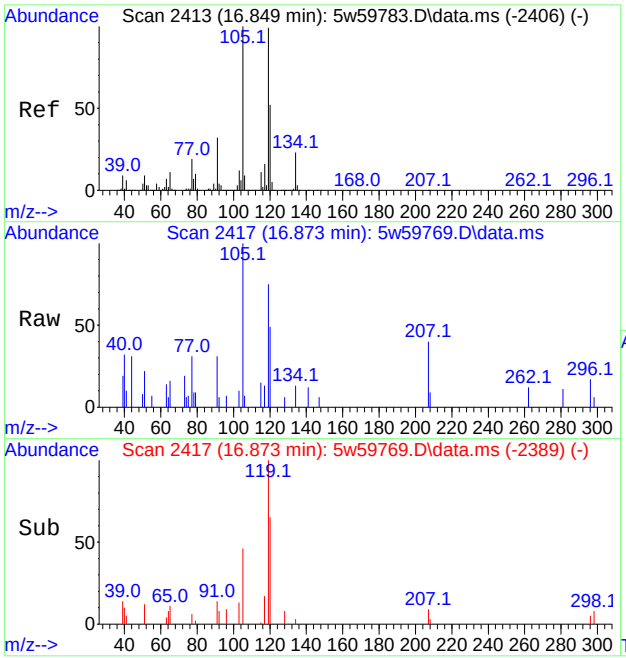


#100
sec-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.714 min Scan# 2391
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2023

Ion	Ratio	Lower	Upper
134	100		
105	613.6	502.5	562.5#

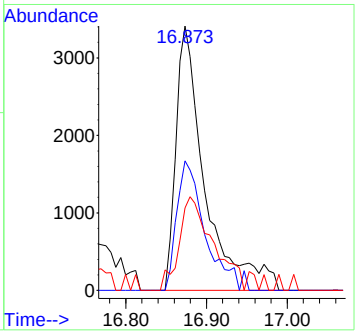


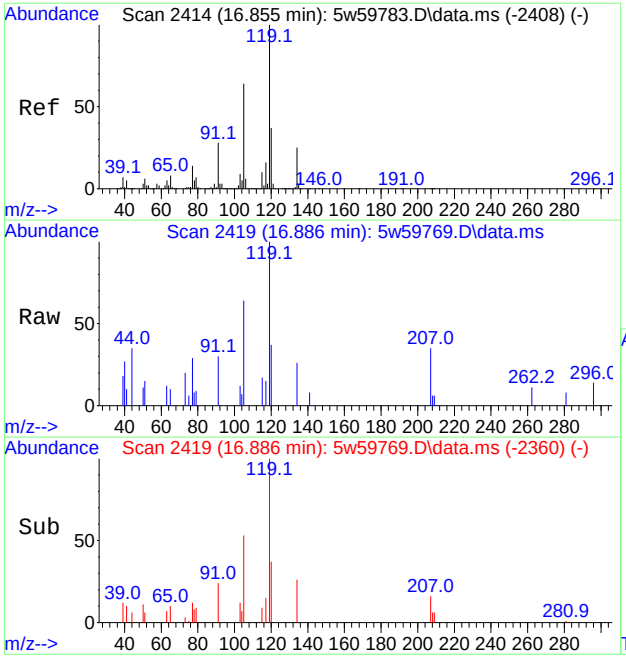


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.873 min Scan# 2417
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8480

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	41.5	7.4	67.4

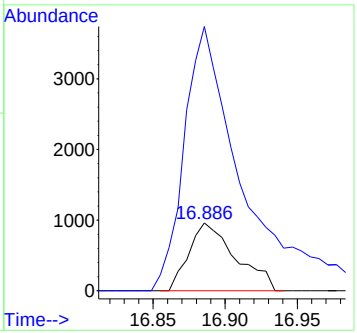


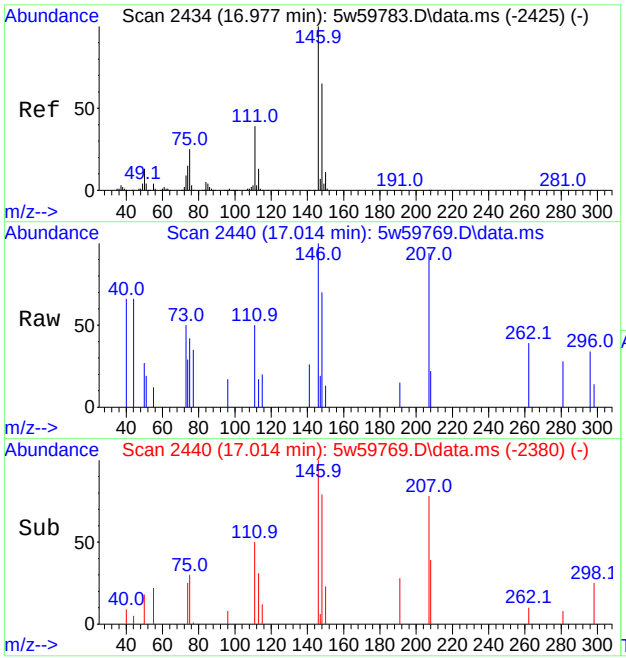


#102
p-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 16.886 min Scan# 2419
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2164

Ion	Ratio	Lower	Upper
134	100		
119	504.7	377.7	437.7#

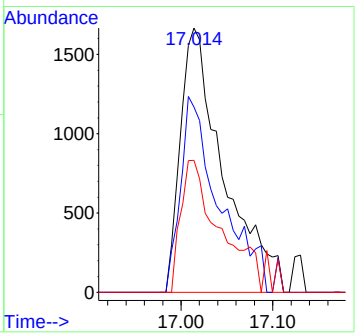


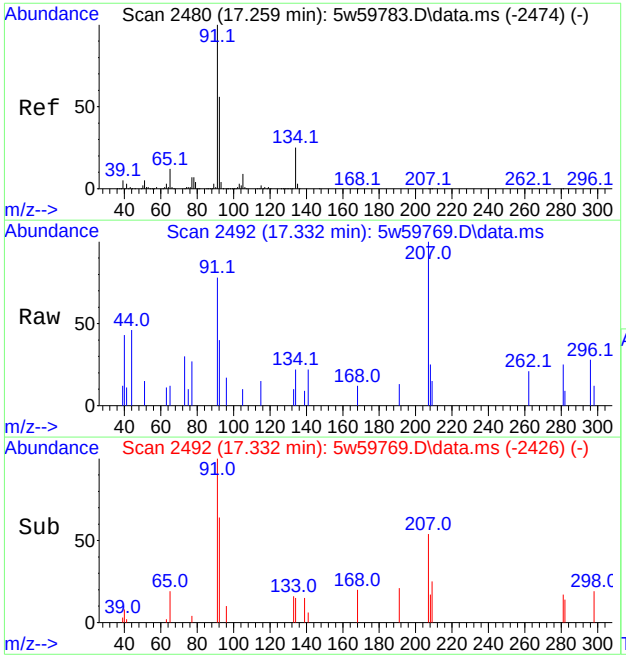


#103
o-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 17.014 min Scan# 2440
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 5480

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.3	94.3
111	45.3	9.2	69.2

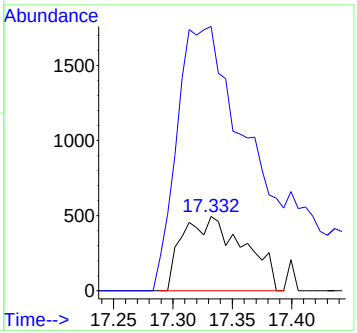


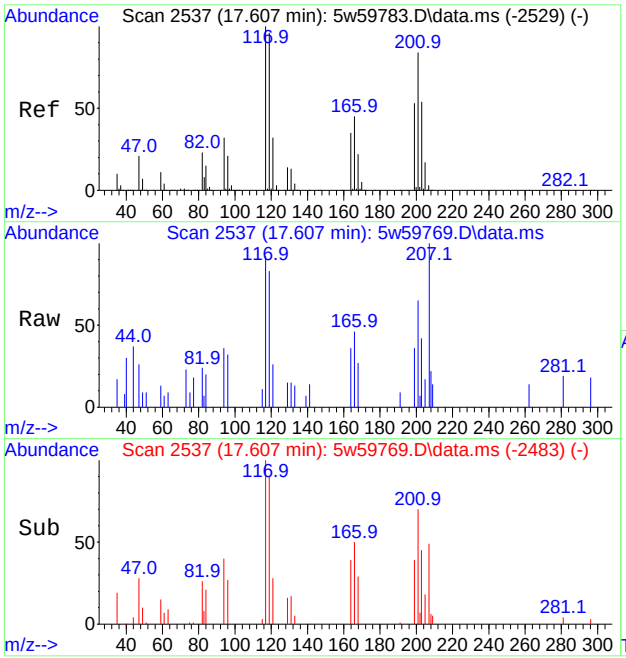


#104
n-BUTYLBENZENE
Concen: 0.03 PPBV
RT: 17.332 min Scan# 2492
Delta R.T. 0.073 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1780

Ion	Ratio	Lower	Upper
134	100		
91	517.0	363.1	423.1#

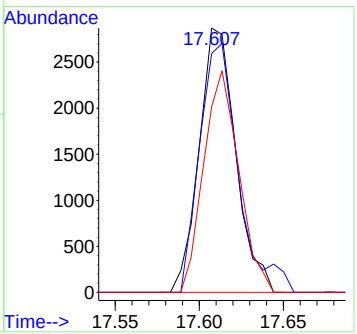


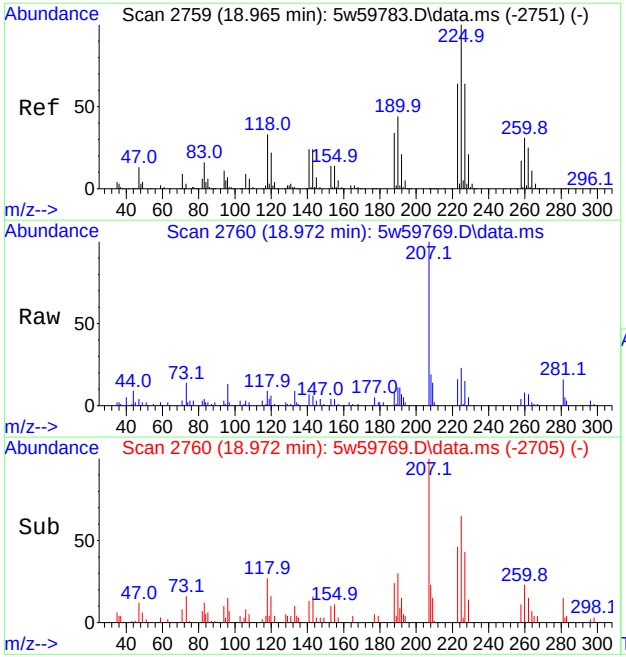


#105
HEXACHLOROETHANE
Concen: 0.05 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4357

Ion	Ratio	Lower	Upper
117	100		
119	99.3	67.2	124.8
201	80.2	61.1	113.5

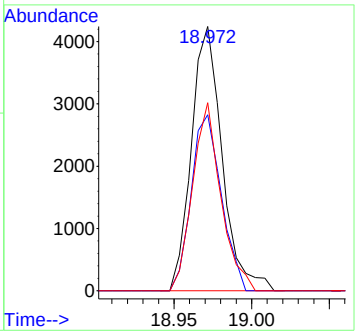


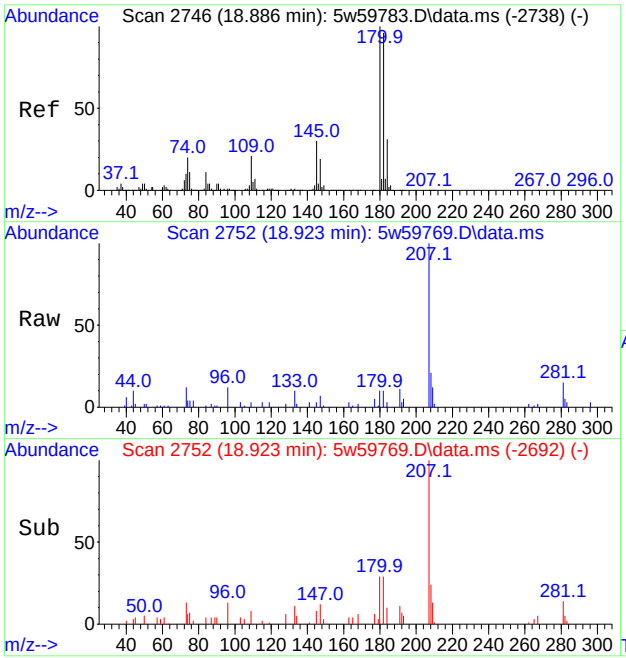


#106
HEXACHLOROBUTADIENE
Concen: 0.05 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:225 Resp: 5840

Ion	Ratio	Lower	Upper
225	100		
227	65.1	34.2	94.2
223	65.4	33.3	93.3

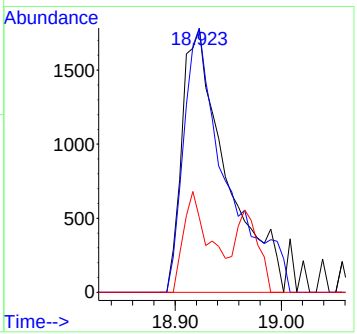


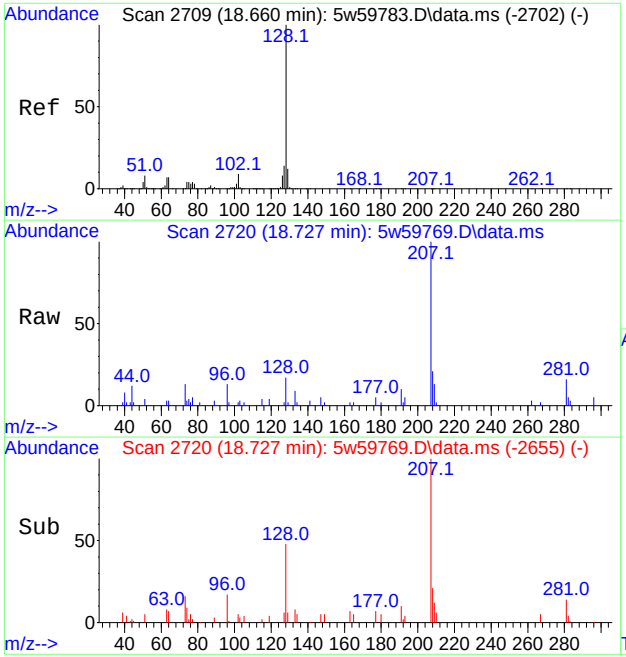


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.04 PPBV
RT: 18.923 min Scan# 2752
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:180 Resp: 5141

Ion	Ratio	Lower	Upper
180	100		
182	97.1	65.4	125.4
145	22.6	0.0	59.4

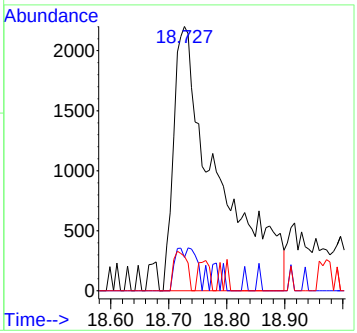


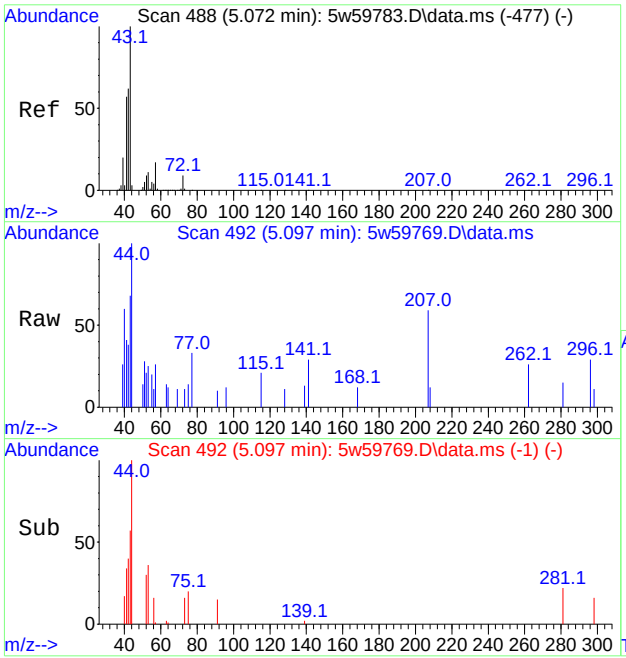


#108
NAPHTHALENE
Concen: 0.04 PPBV m
RT: 18.727 min Scan# 2720
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:128 Resp: 11614

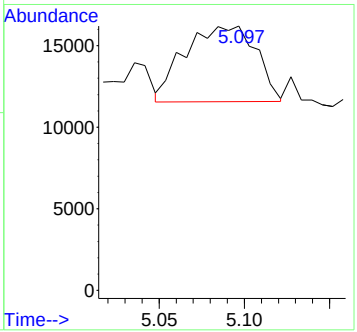
Ion	Ratio	Lower	Upper
128	100		
127	7.7	0.0	43.3
129	4.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.05 PPBV m
RT: 5.097 min Scan# 492
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:TIC Resp: 13430



Manual Integration Approval Summary

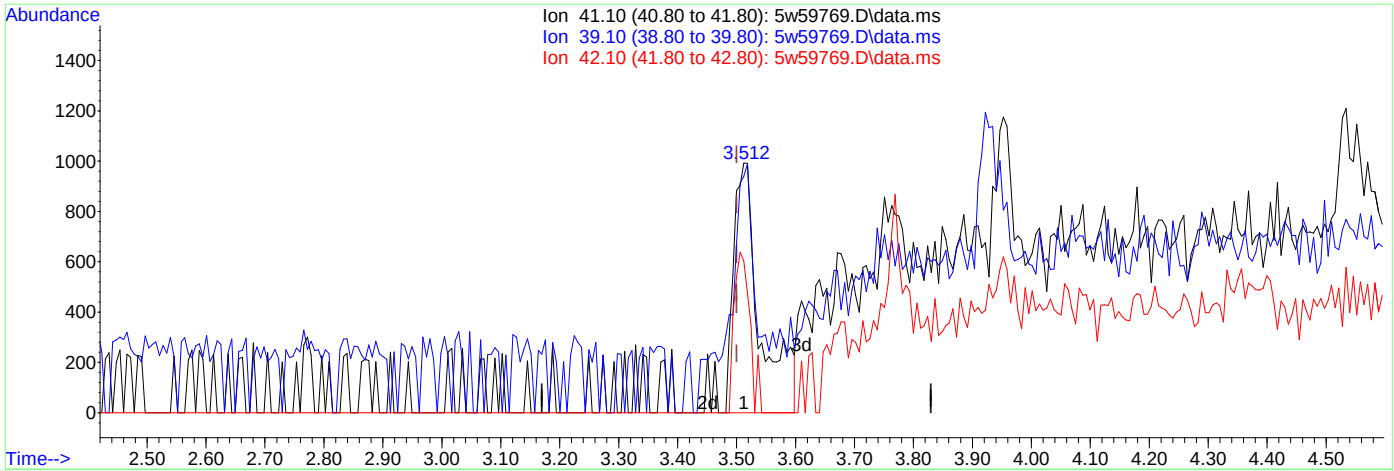
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59769.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/06/25 22:35 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

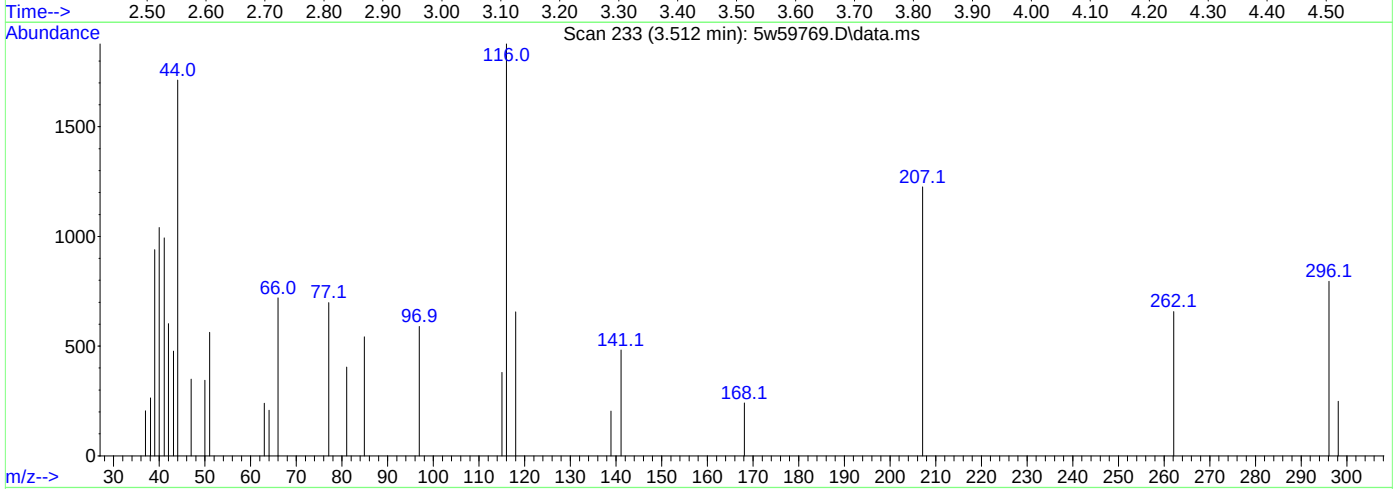
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propylene	115-07-1		3.51	Poor instrument integration
Freon 142B	75-68-3		3.65	Poor instrument integration
n-Butane	106-97-8		3.95	Poor instrument integration
Chloroethane	75-00-3		4.23	Poor instrument integration
Acrolein	107-02-8		4.62	Poor instrument integration
Isopropyl Alcohol	67-63-0		4.94	Poor instrument integration
TVHC As Equiv Pentane			5.10	Missed peak
trans-1,2-Dichloroethylene	156-60-5		6.25	Poor instrument integration
1,2-Dichloropropane	78-87-5		9.67	Poor instrument integration
Octane	111-65-9		12.77	Poor instrument integration
4-Ethyltoluene	622-96-8		16.00	Missed peak
1,3,5-Trimethylbenzene	108-67-8		16.07	Missed peak
p-Dichlorobenzene	106-46-7		16.68	Missed peak
Naphthalene	91-20-3		18.73	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.09PPBV

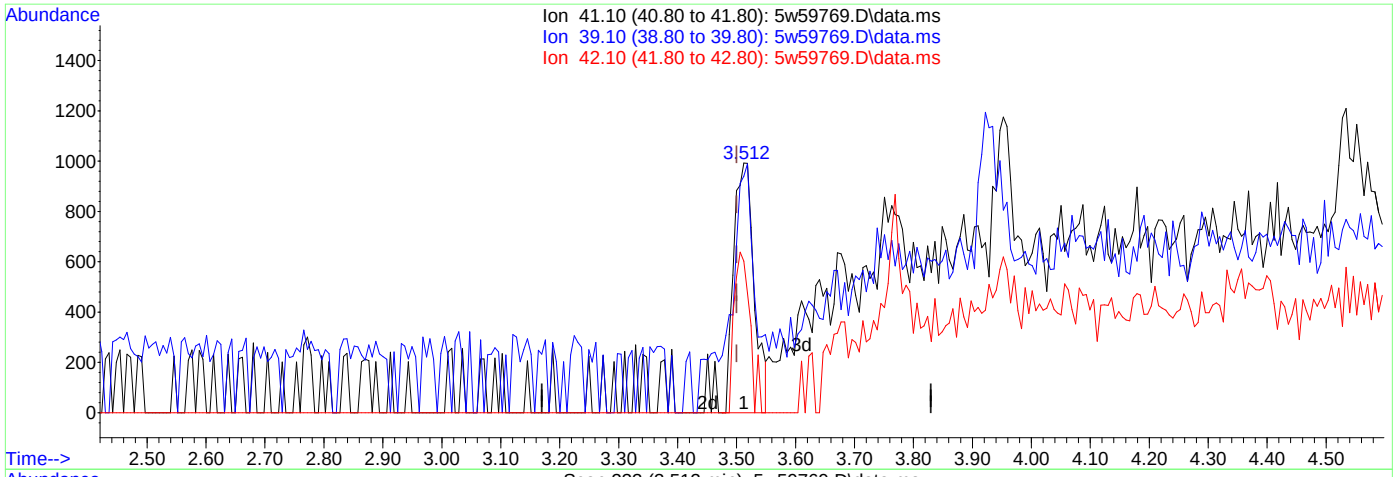
response 3070

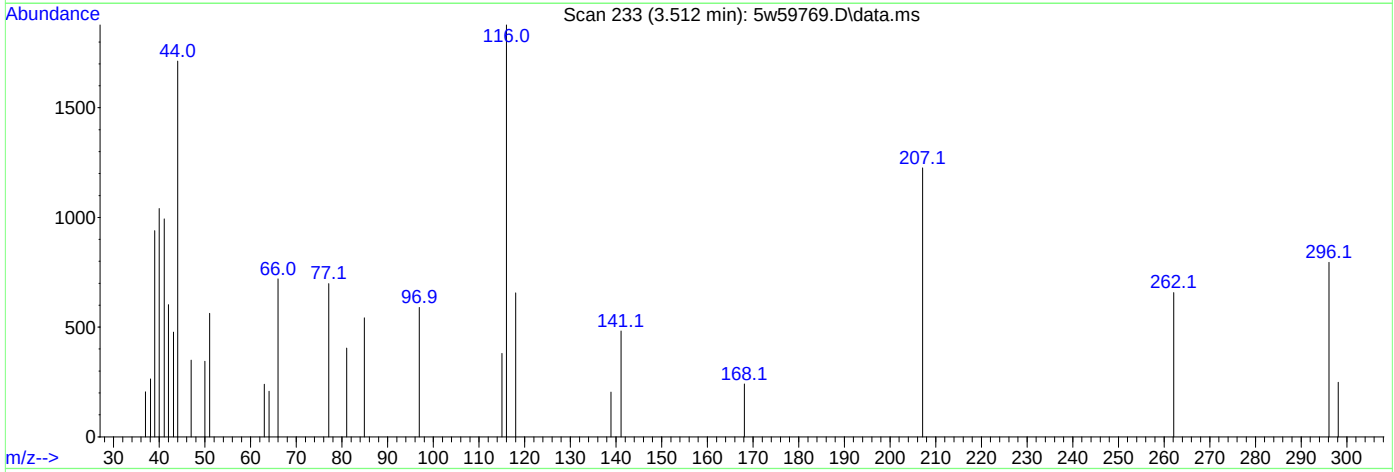
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	183.94#
42.10	66.30	38.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.07PPBV m

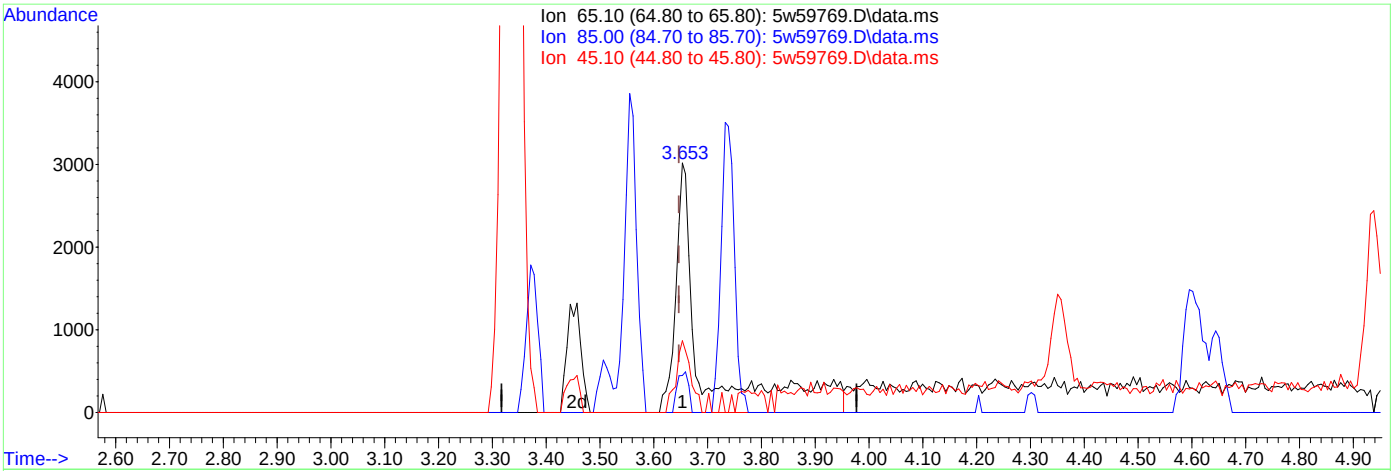
response 2388

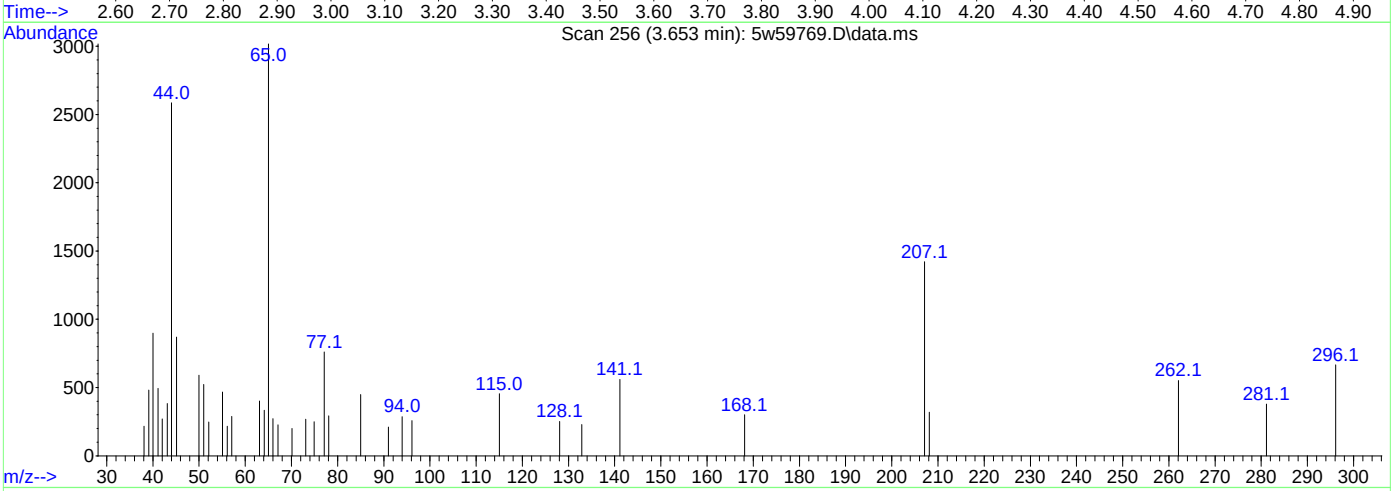
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	236.47#
42.10	66.30	49.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.10PPBV

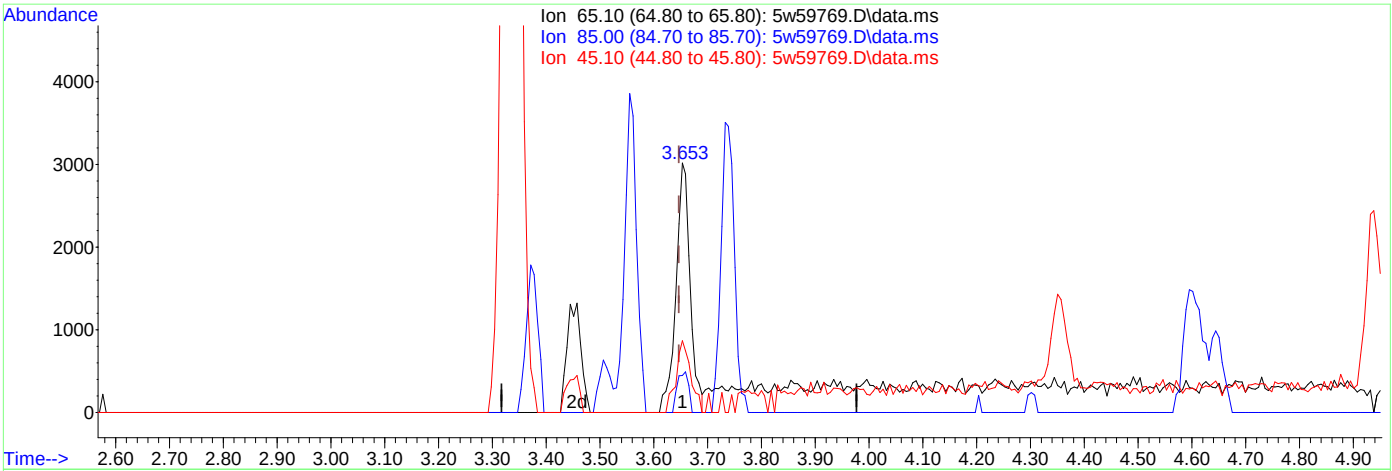
response 10348

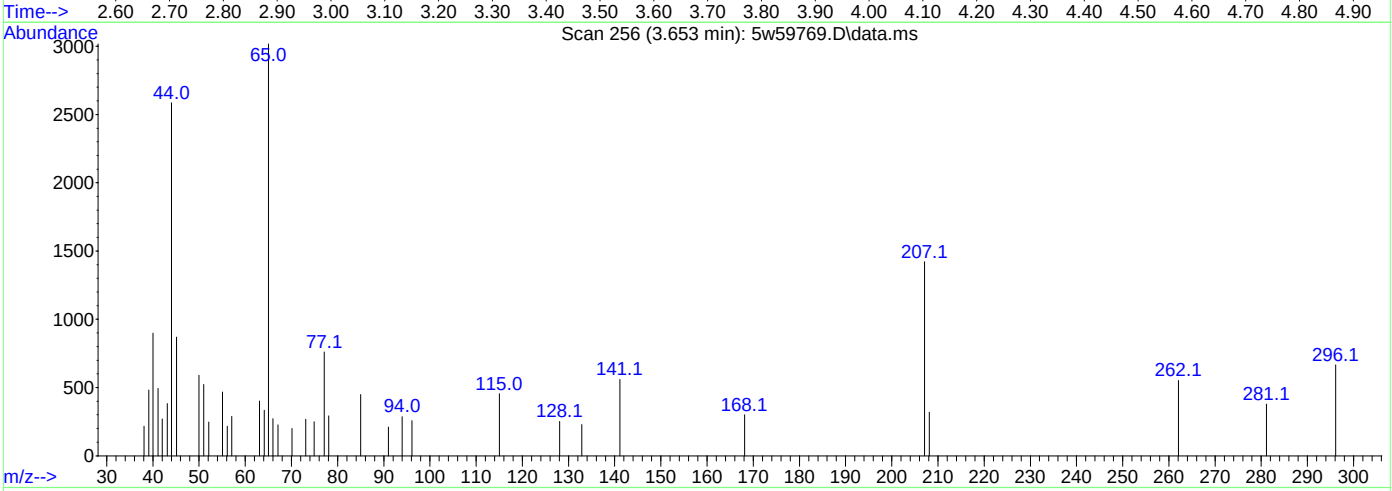
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	6.94#
45.10	20.00	16.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.05PPBV m

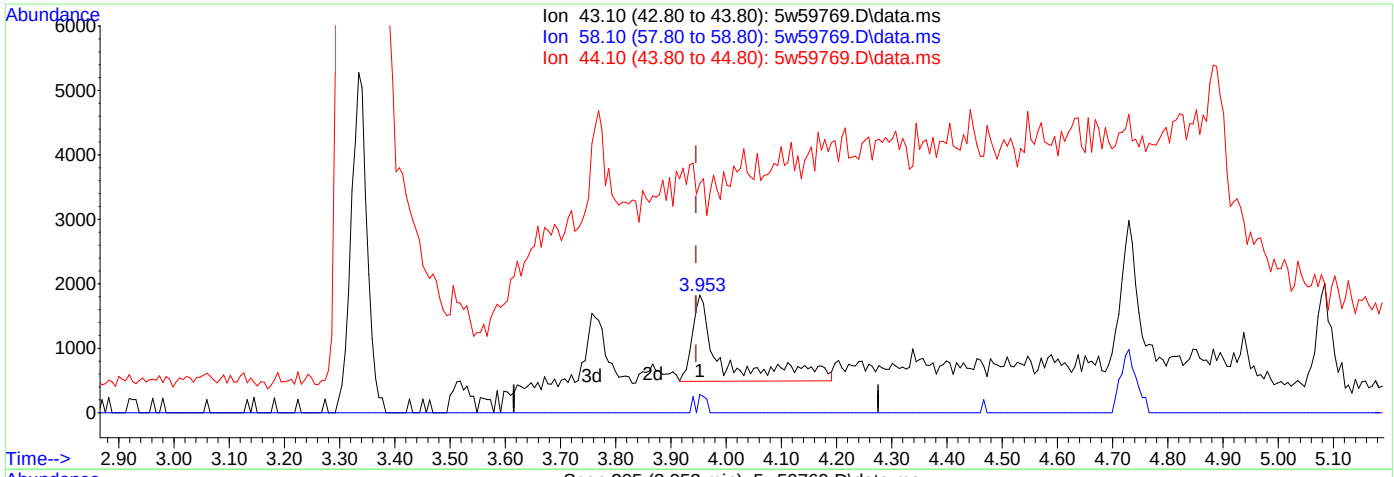
response 5550

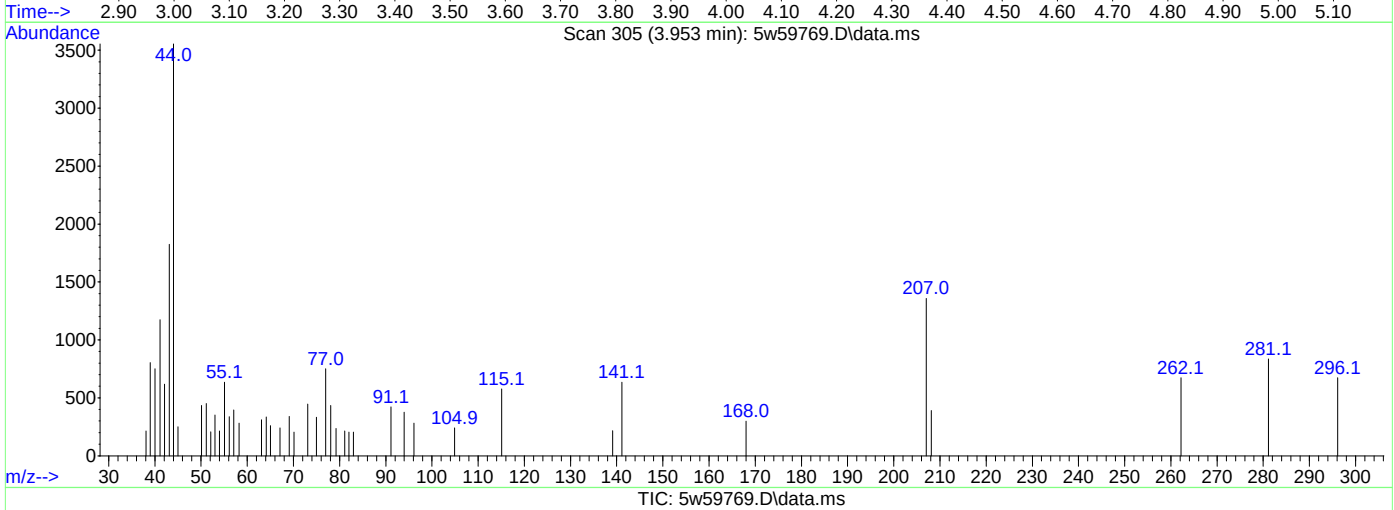
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	12.94
45.10	20.00	29.96#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.12PPBV

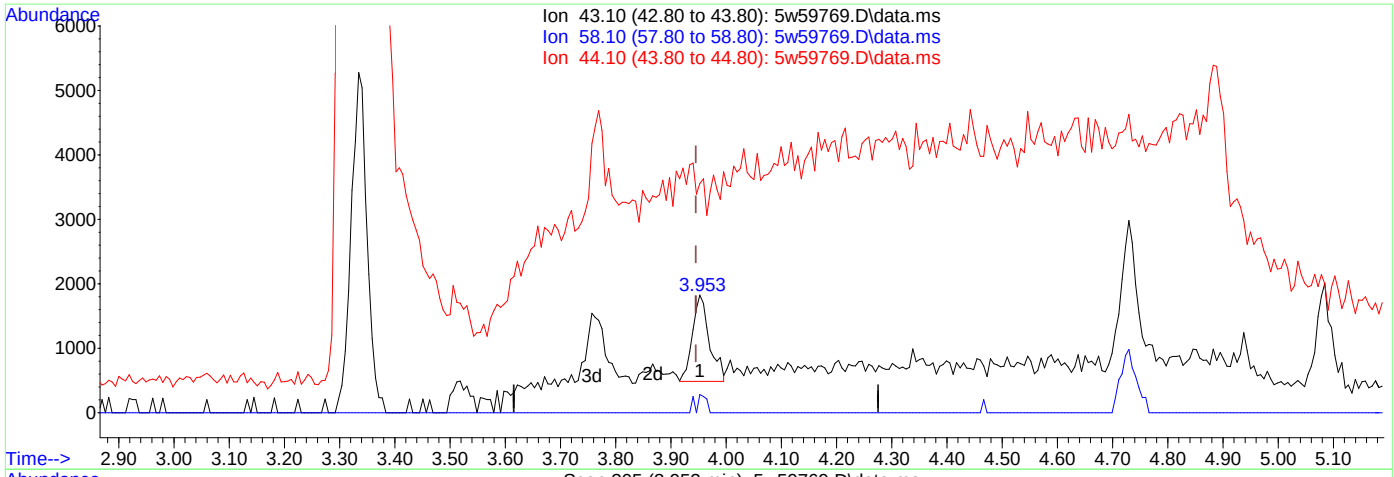
response 5032

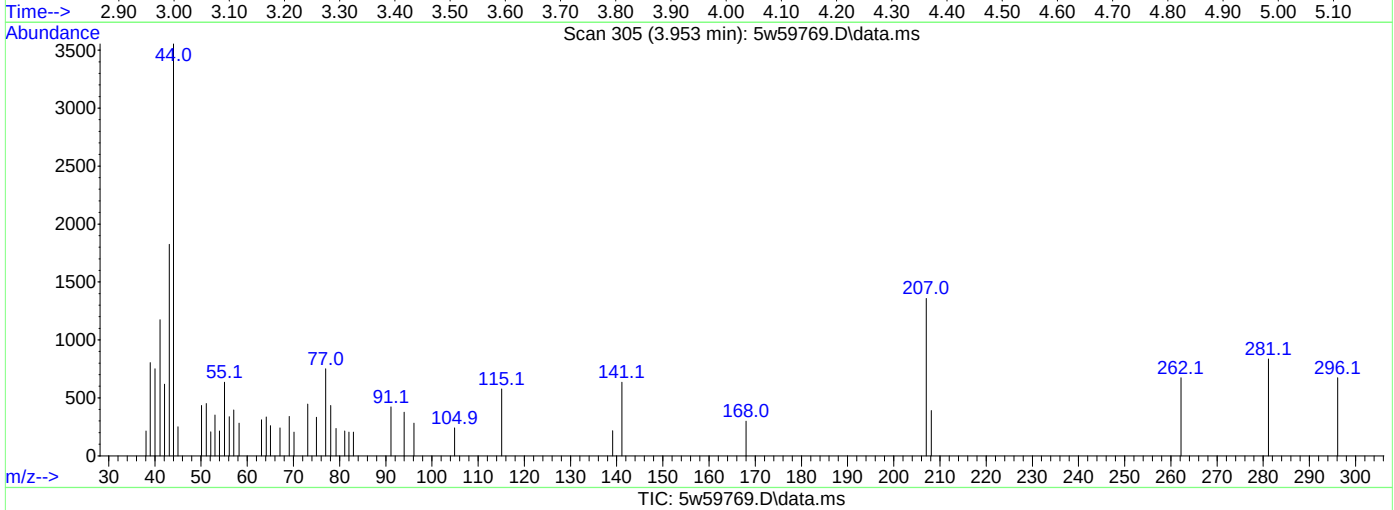
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	7.21
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.07PPBV m

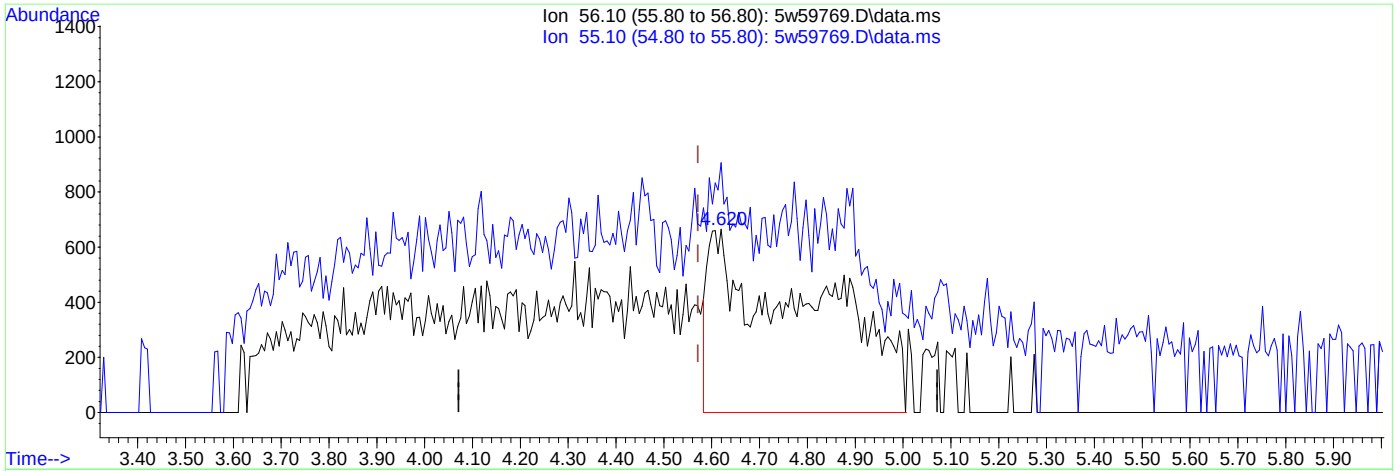
response 2825

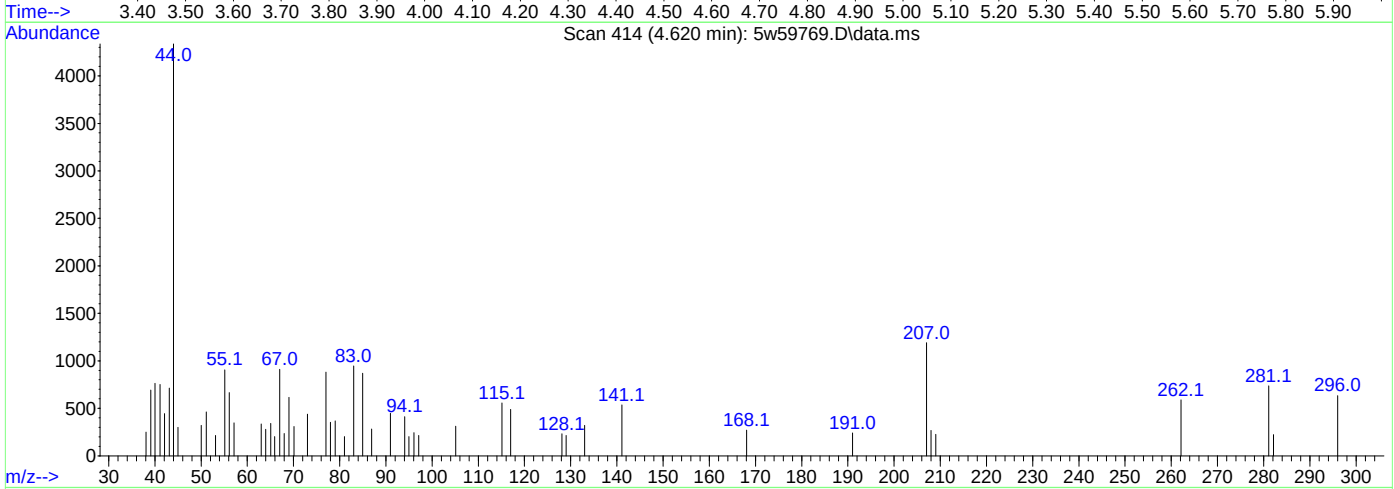
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	12.85
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.69PPBV

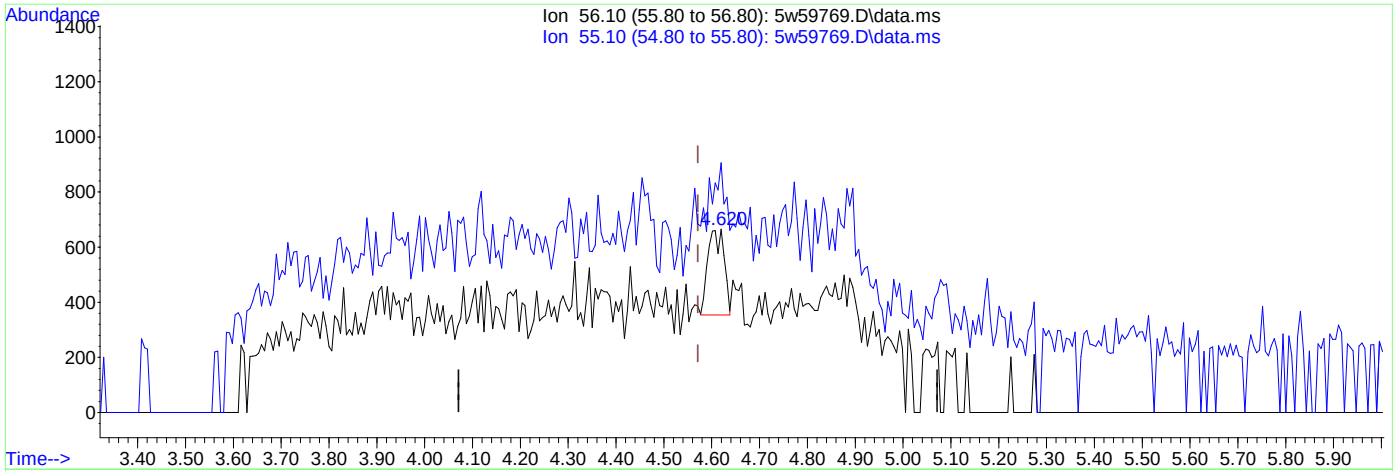
response 9827

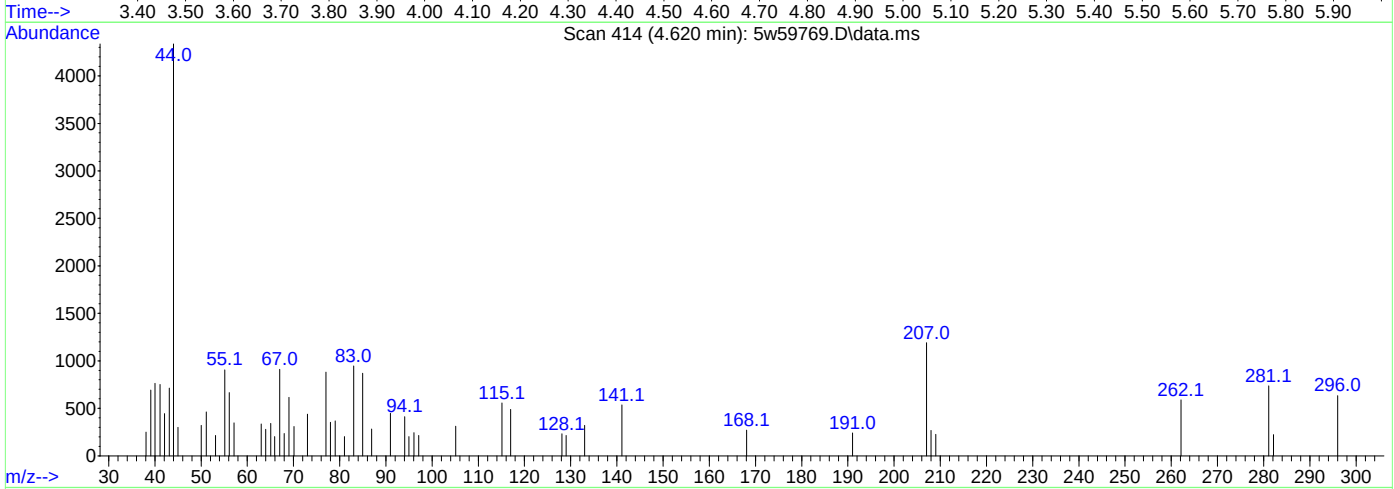
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	29.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.05PPBV m

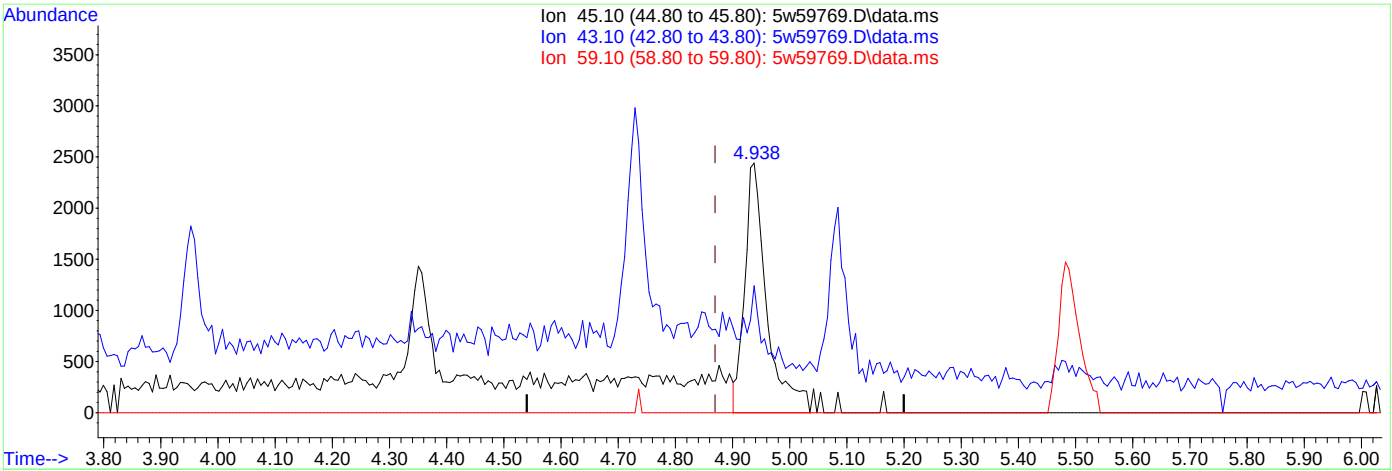
response 728

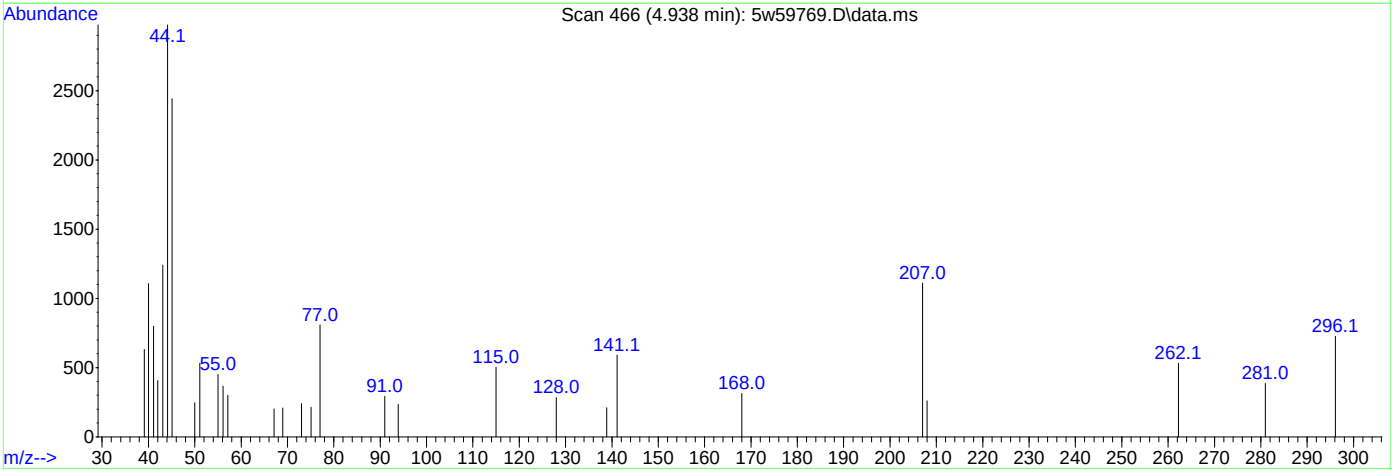
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	401.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.07PPBV

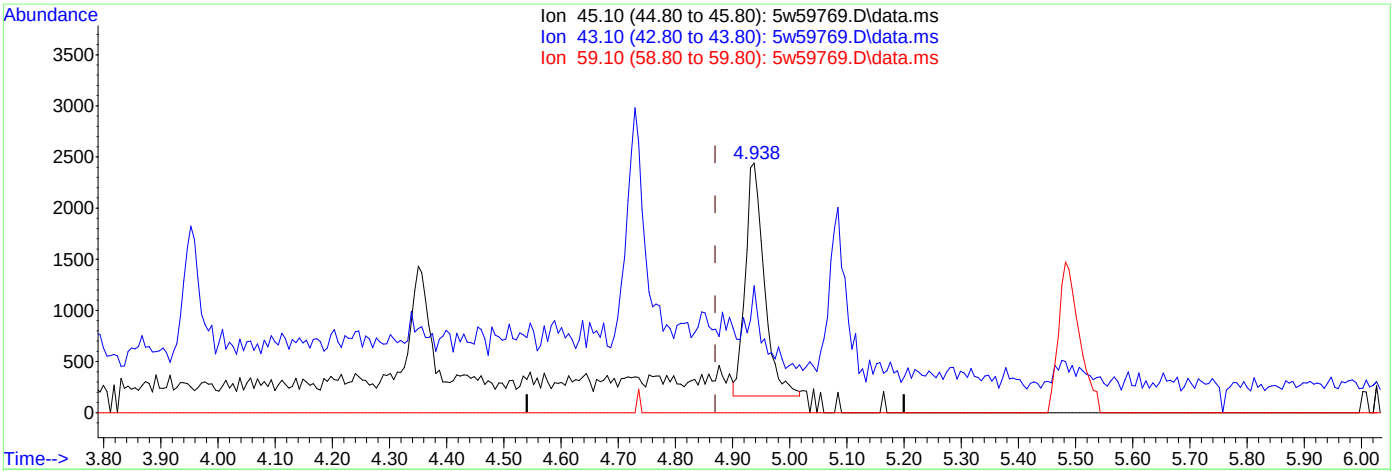
response 6511

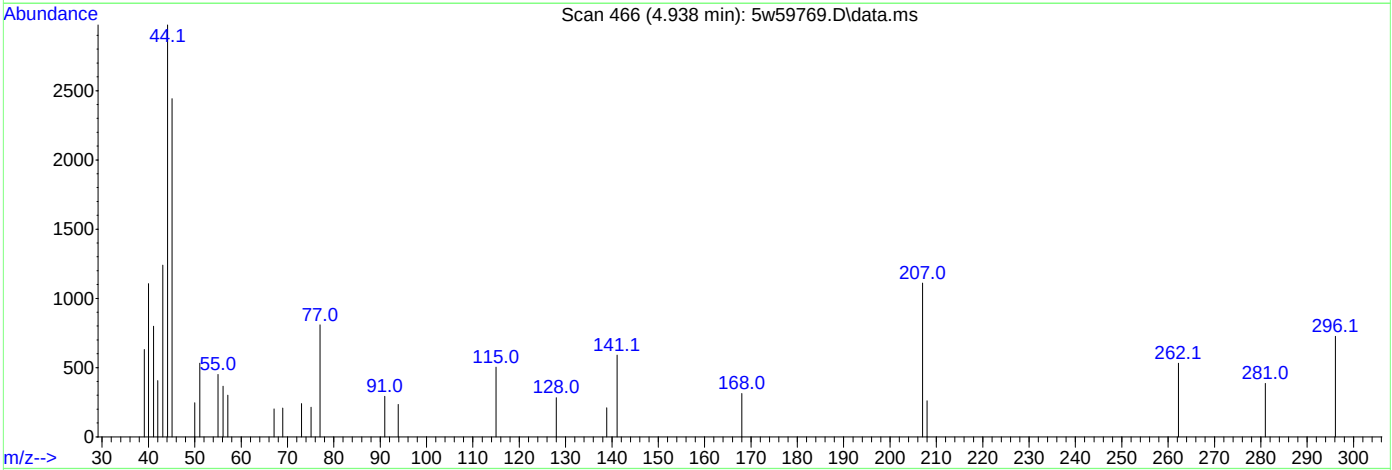
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.06PPBV m

response 5219

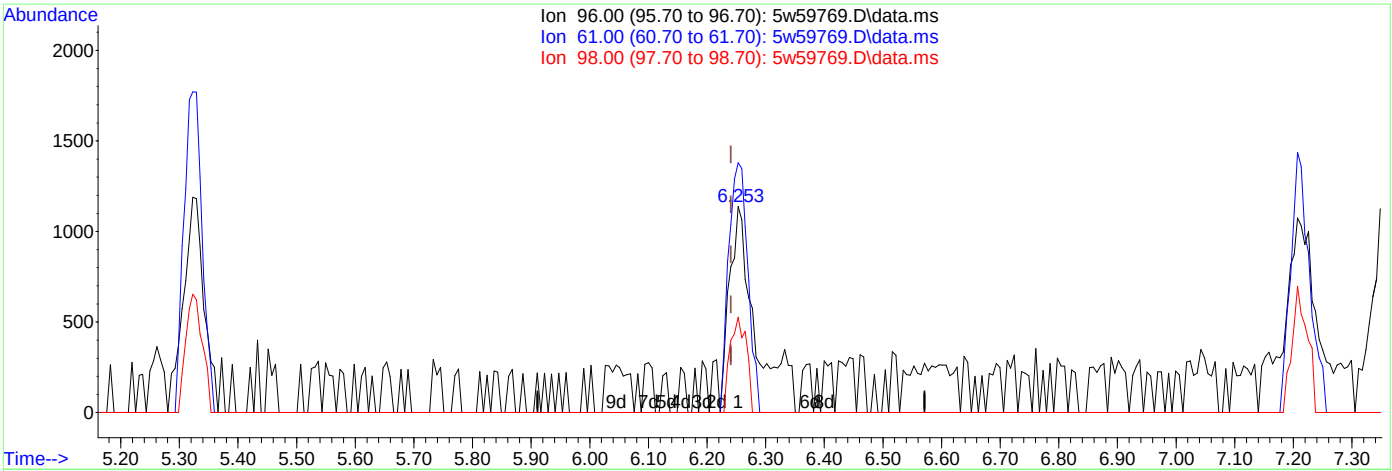
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

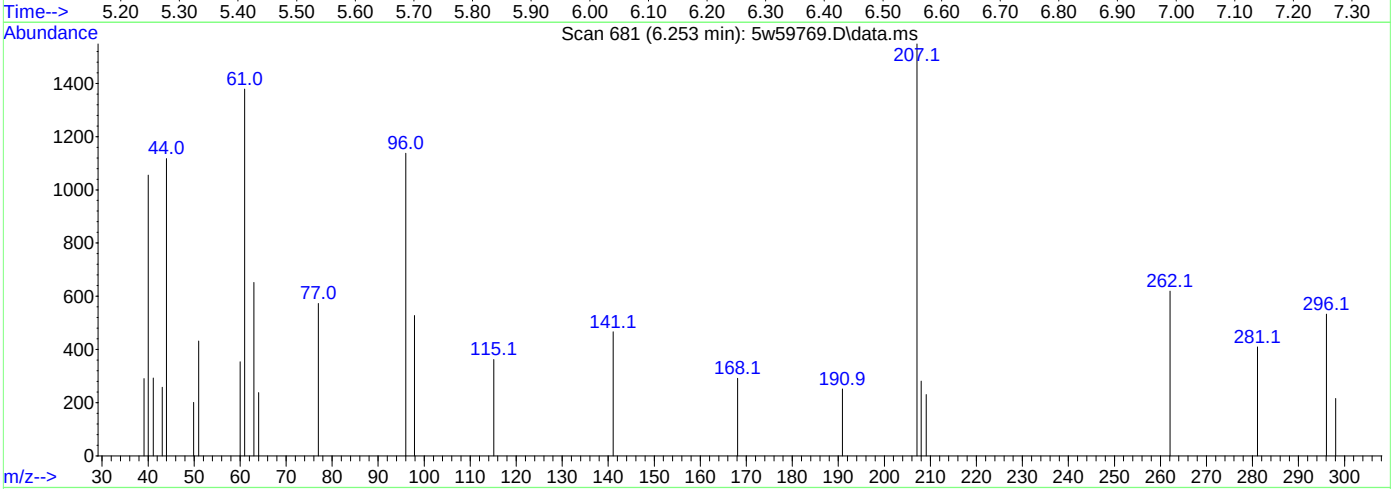
5W59769.D edits: ISOPROPYL ALCOHOL

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.07PPBV

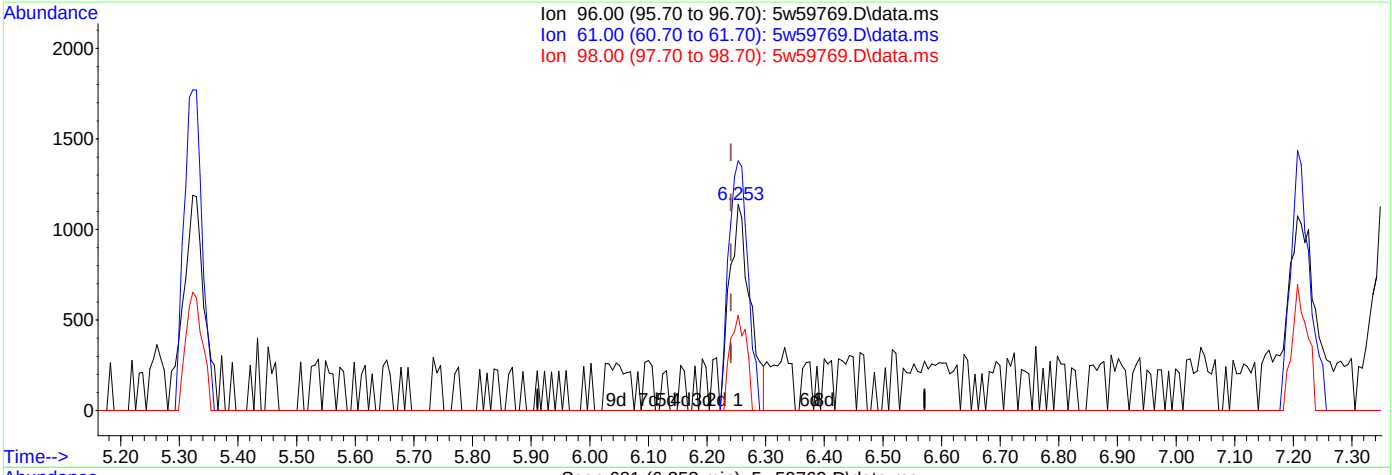
response 3570

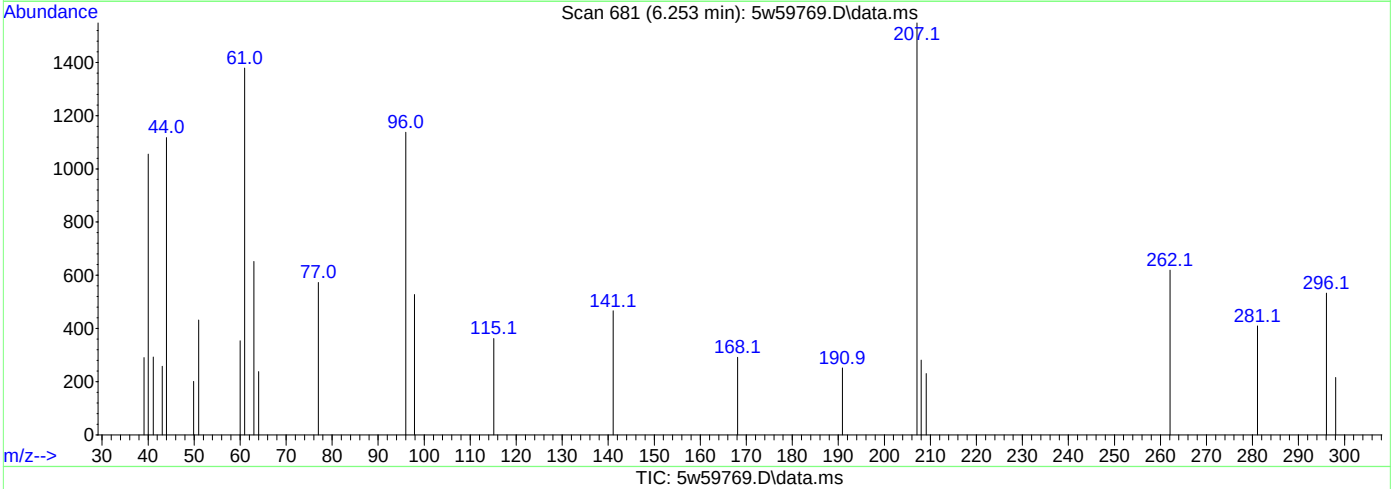
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	88.26#
98.00	64.10	28.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.05PPBV m

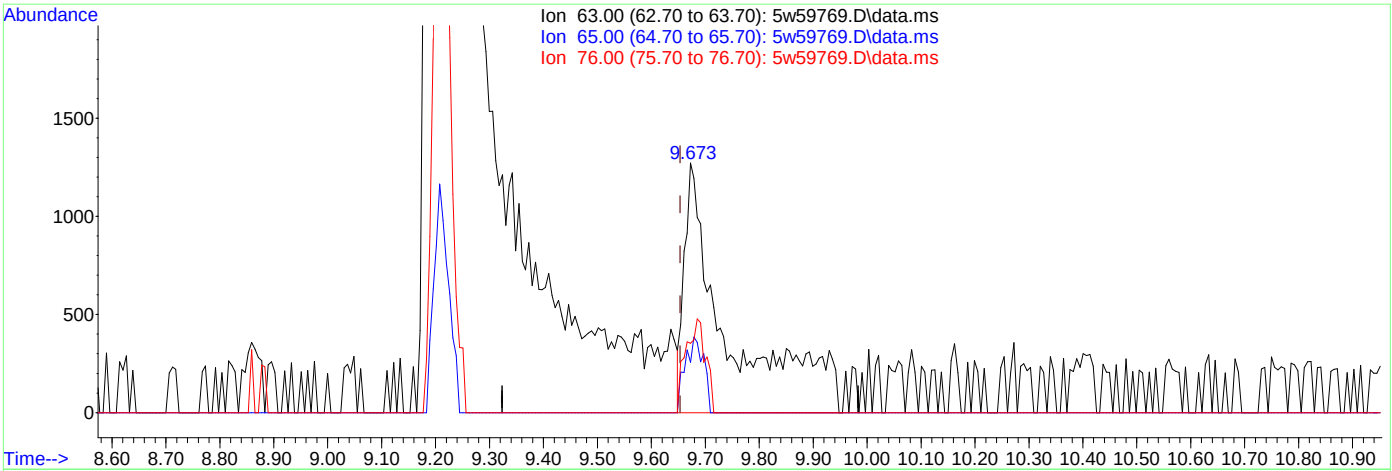
response 2781

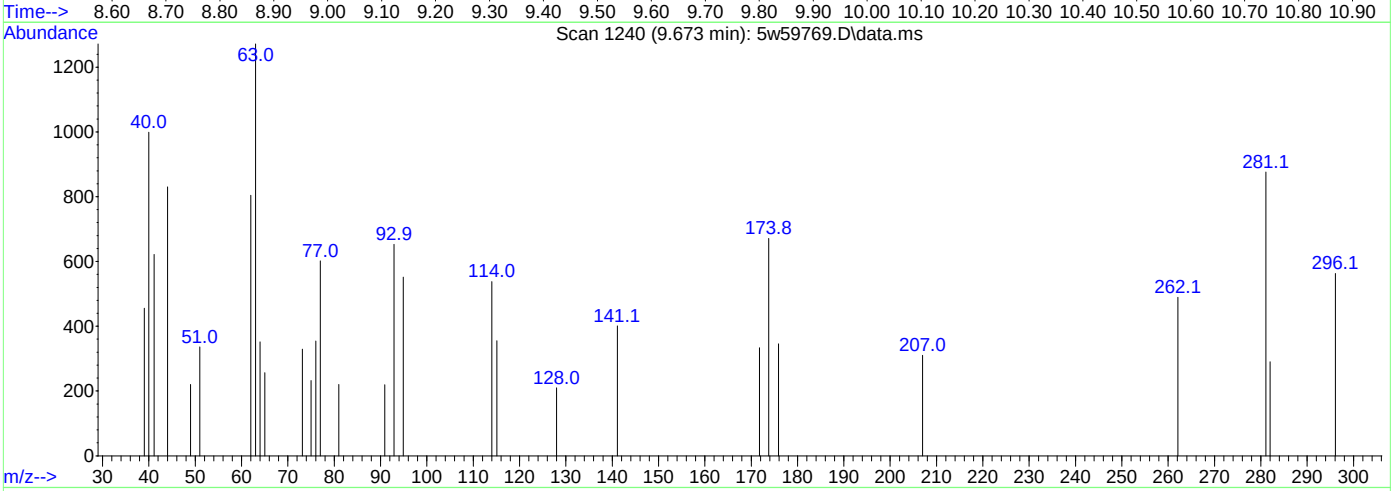
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	113.30#
98.00	64.10	36.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.11PPBV

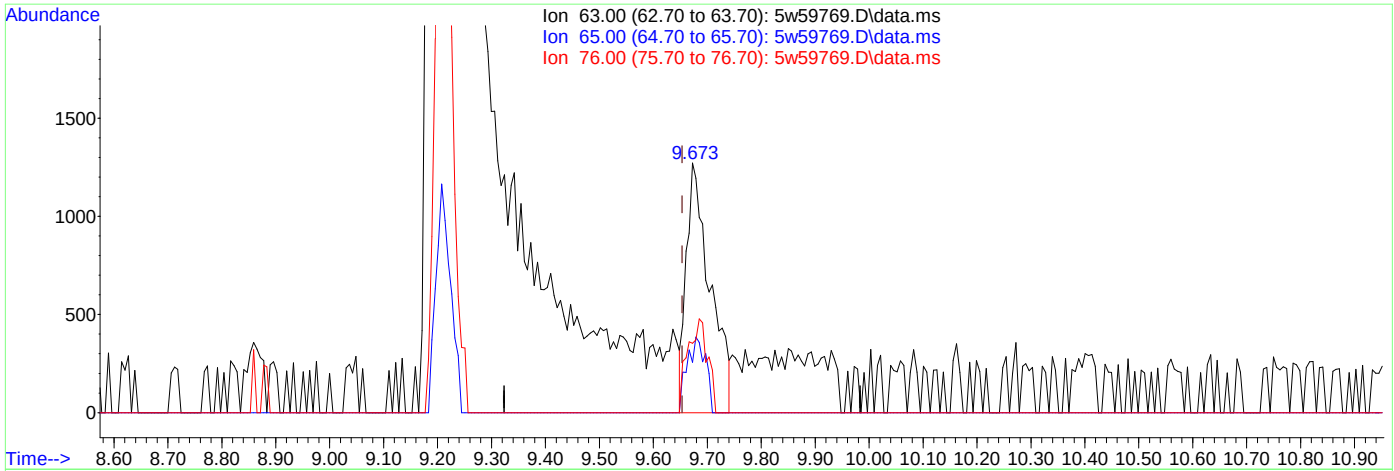
response 7133

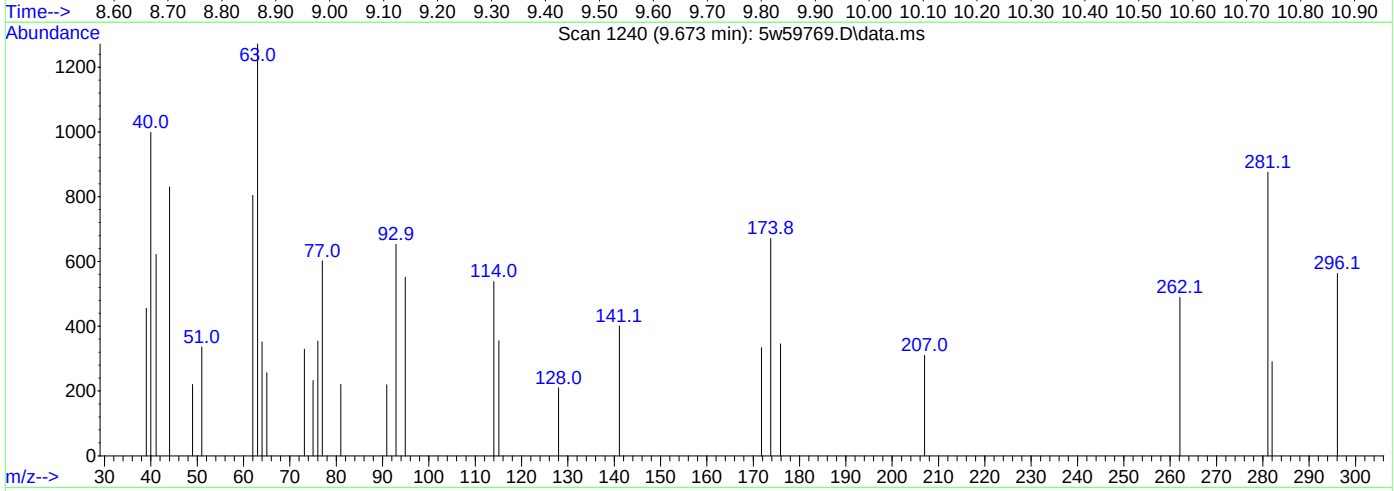
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	12.81
76.00	41.50	17.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.06PPBV m

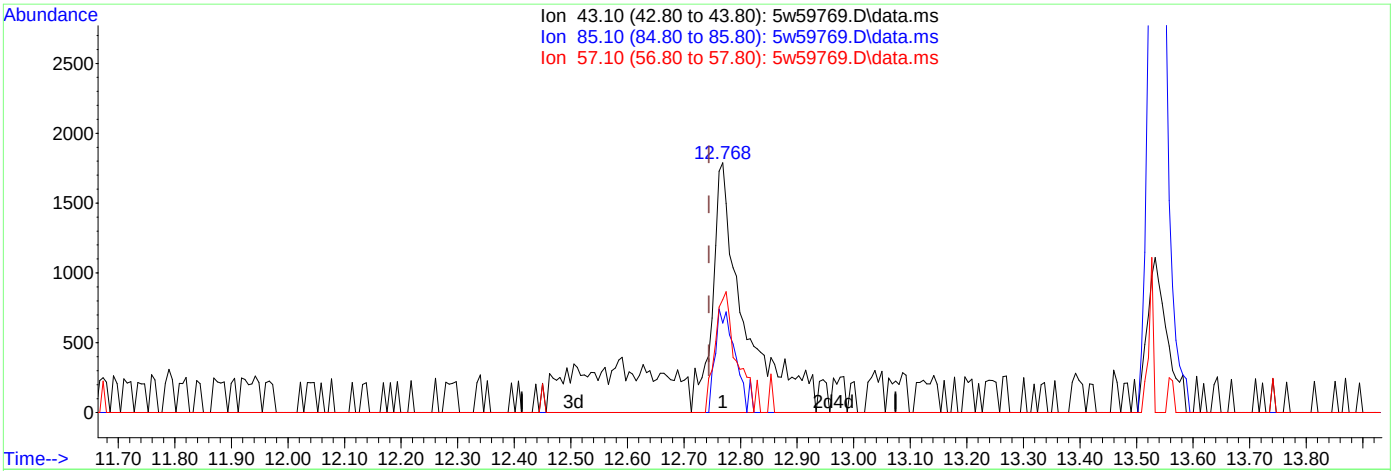
response 3887

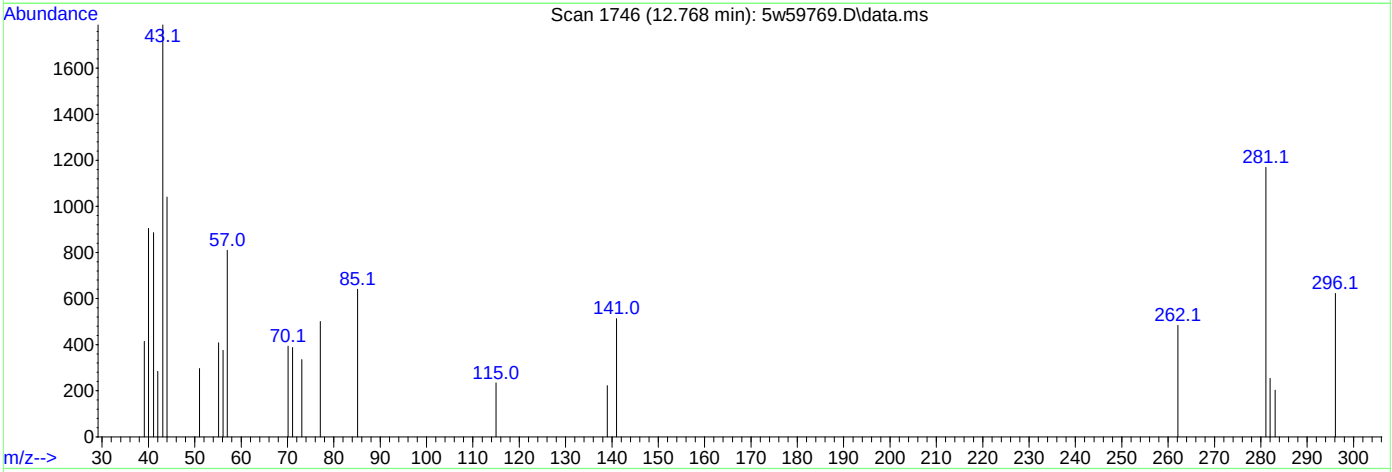
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	23.51
76.00	41.50	31.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.08PPBV

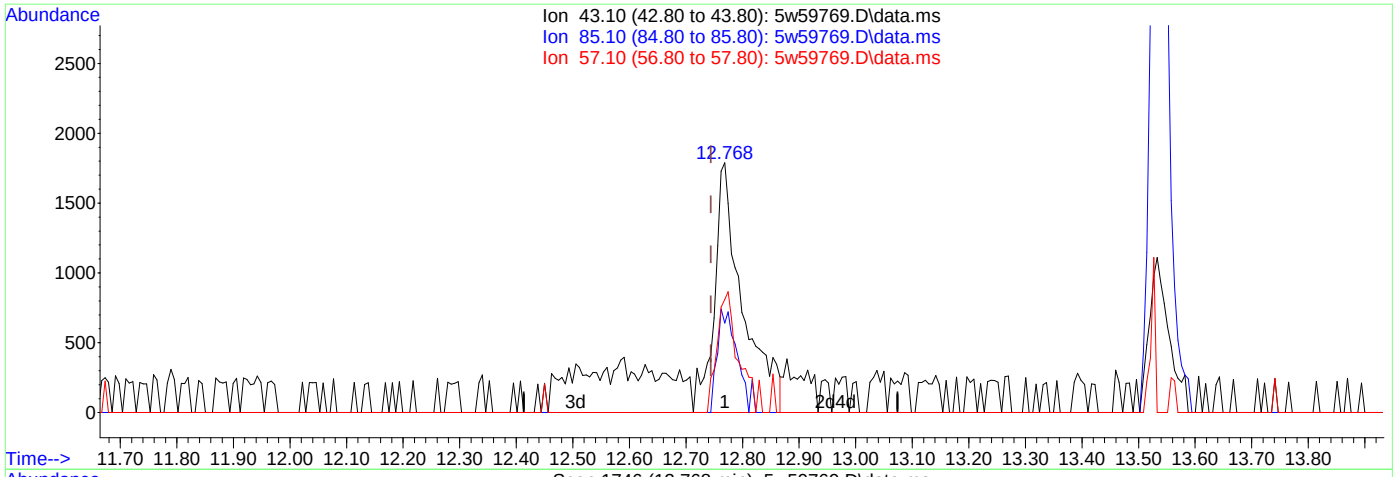
response 7210

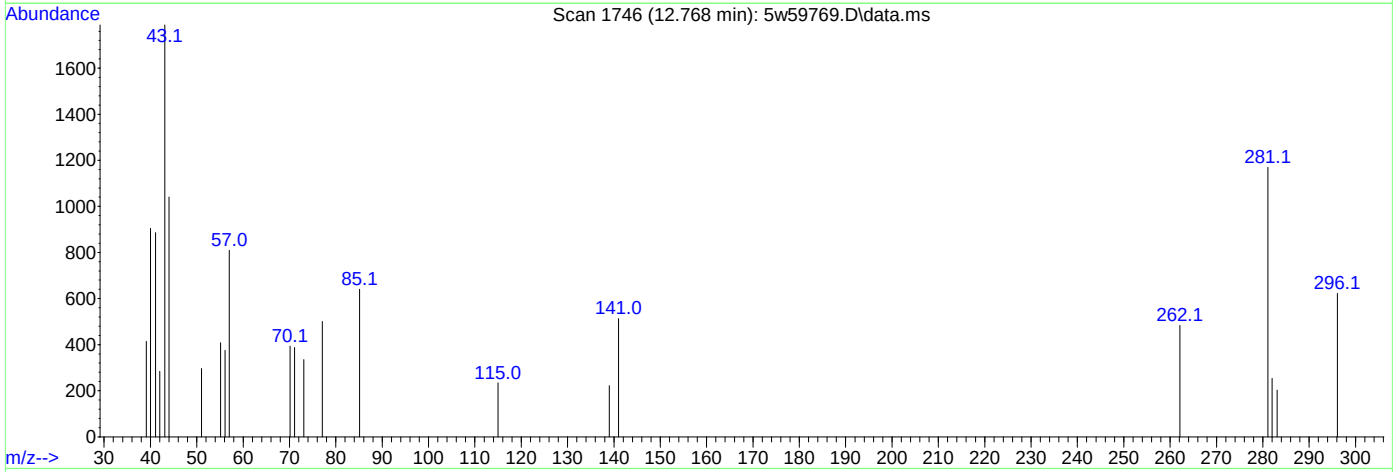
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	25.34
57.10	43.70	32.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.07PPBV m

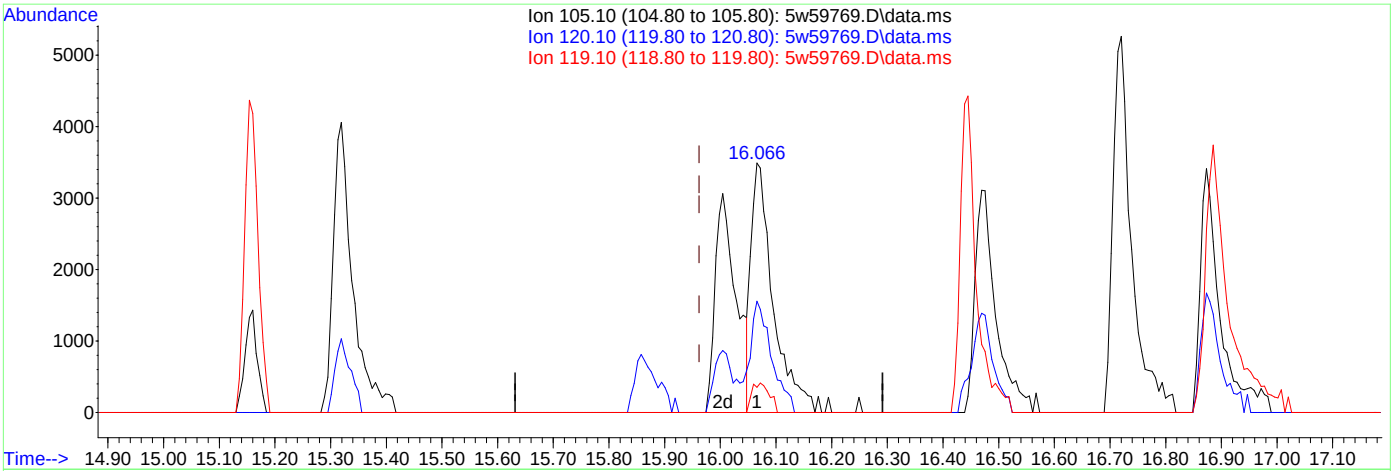
response 6243

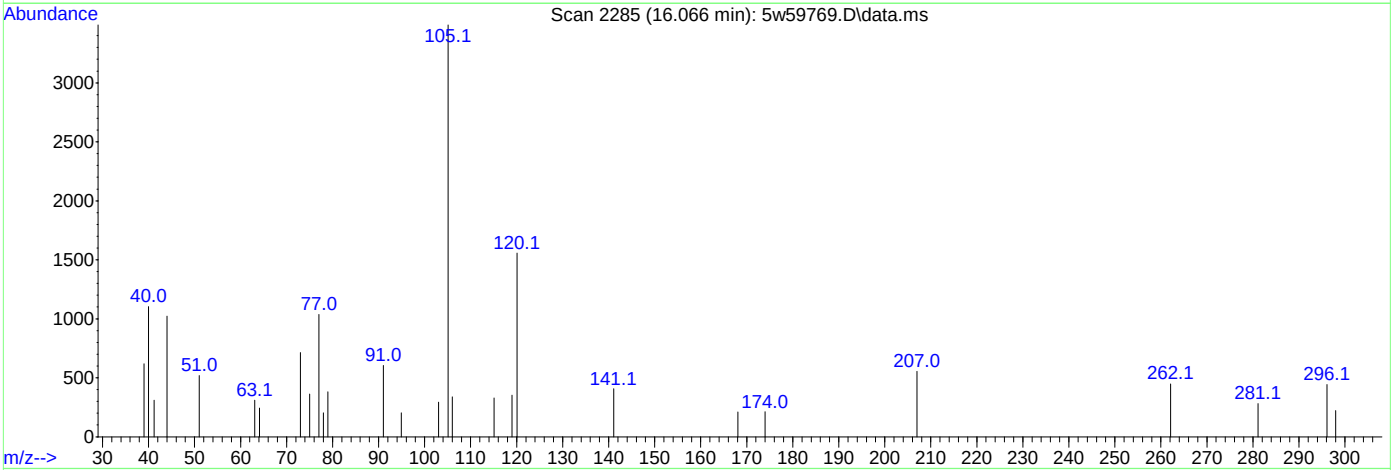
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	29.26
57.10	43.70	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.066min (+0.104) 0.05PPBV

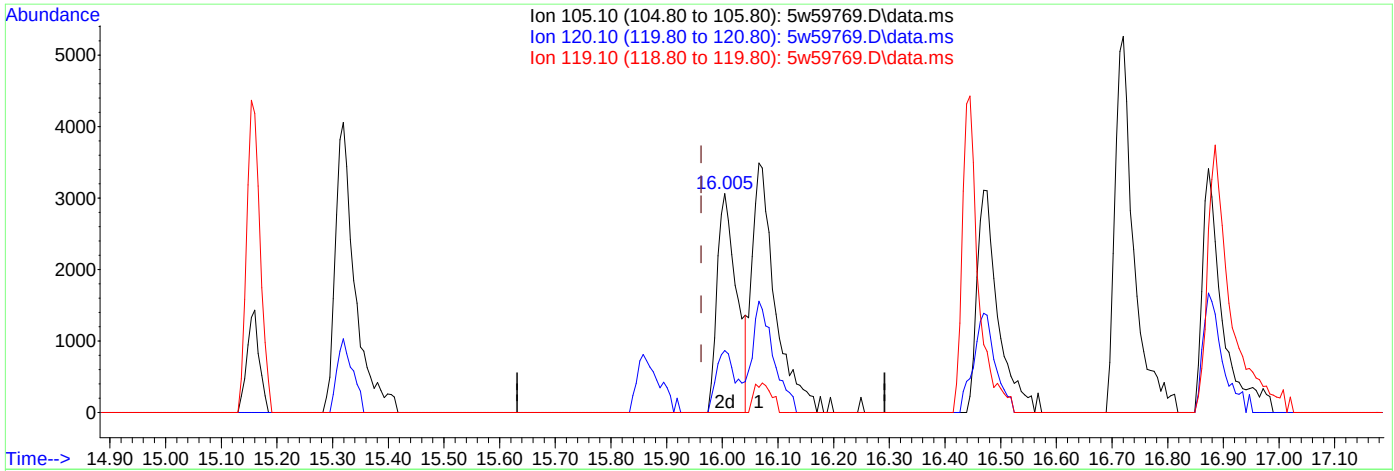
response 9673

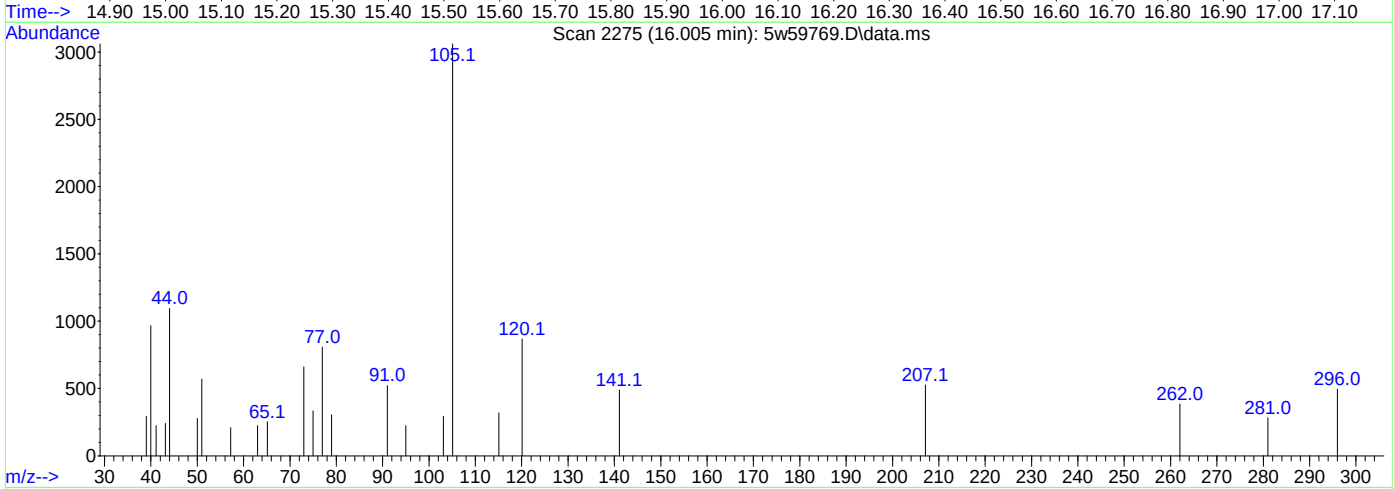
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	42.57
119.10	2.30	9.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.005min (+0.043) 0.04PPBV m

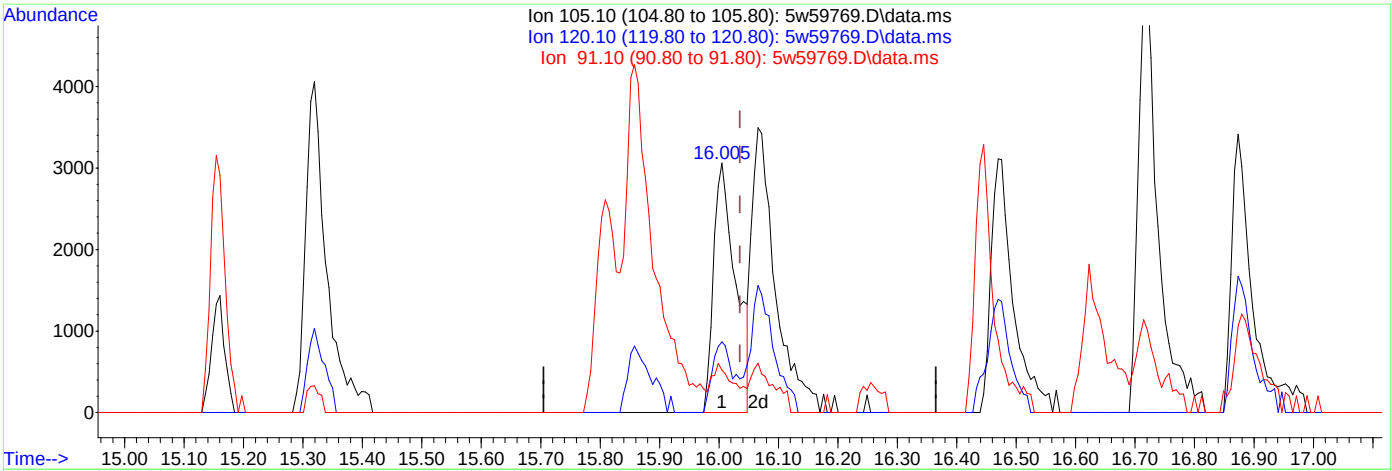
response 7489

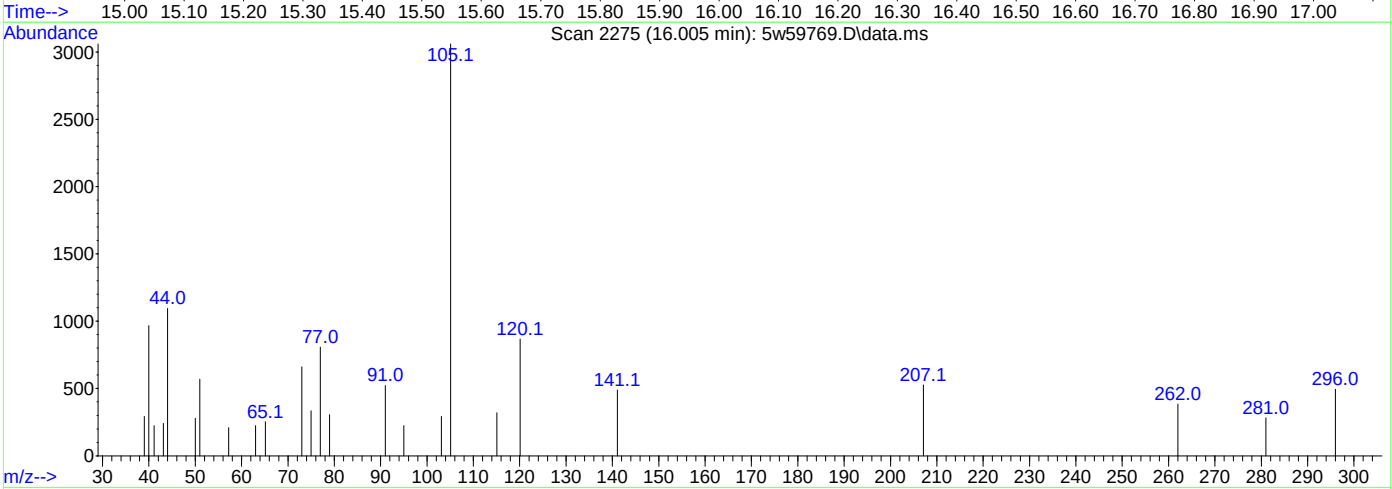
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	54.99
119.10	2.30	12.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.005min (-0.030) 0.04PPBV

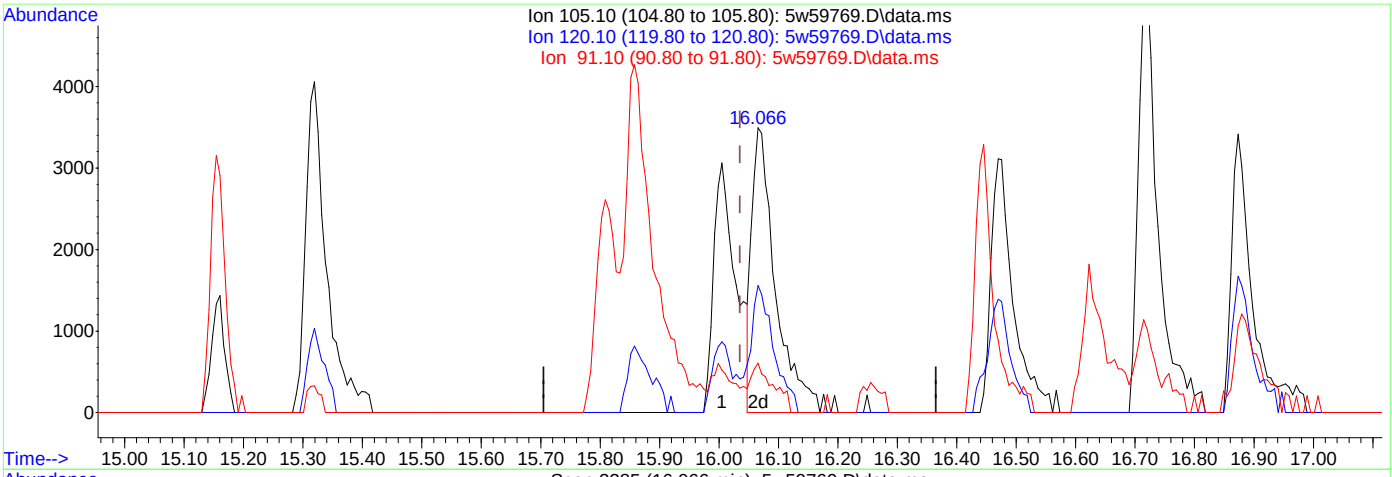
response 7976

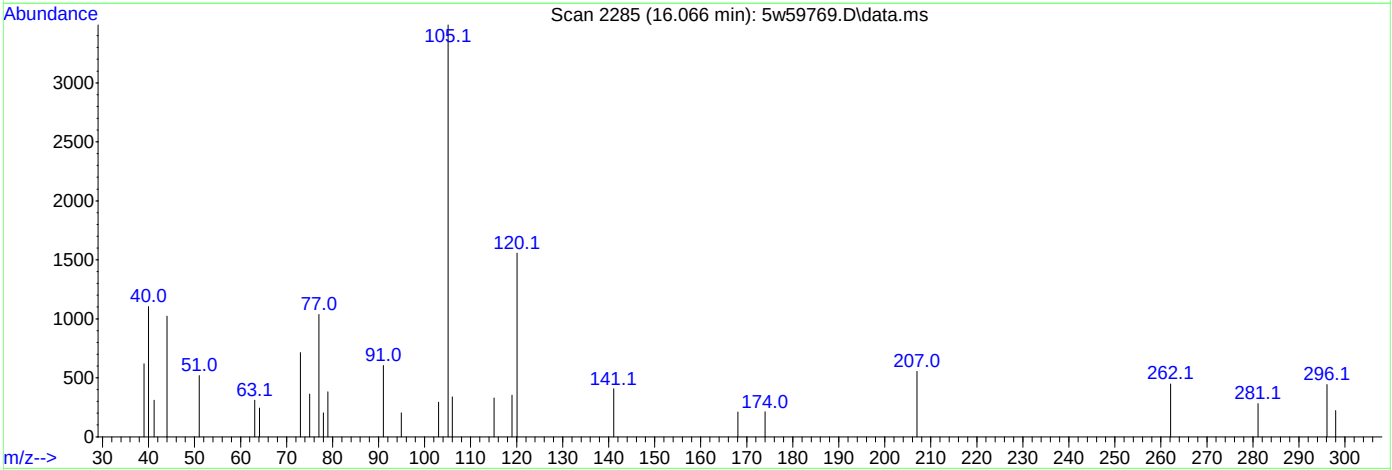
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	28.45
91.10	10.80	20.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.066min (+0.031) 0.05PPBV m

response 9751

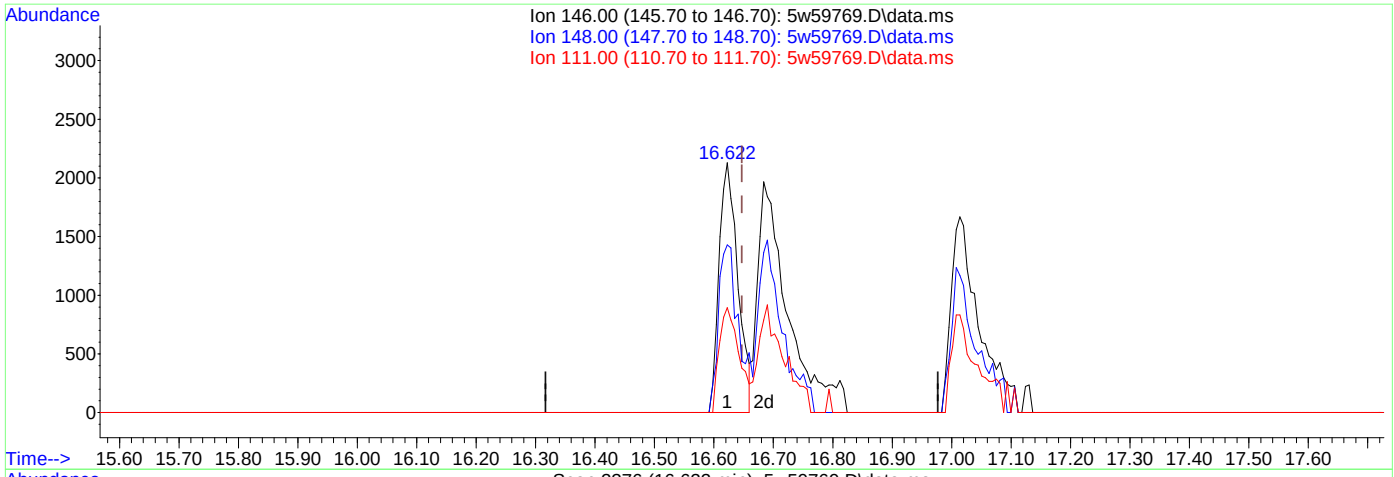
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	23.27
91.10	10.80	17.03
0.00	0.00	0.00

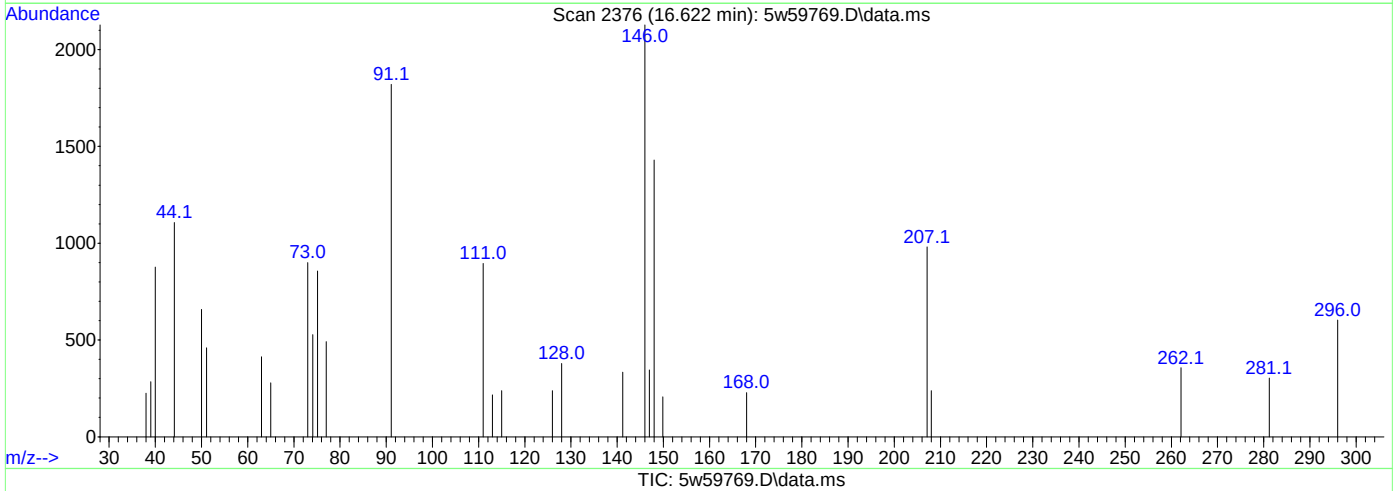
5W59769.D edits: 1,3,5-TRIMETHYLBENZENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.622min (-0.025) 0.03PPBV

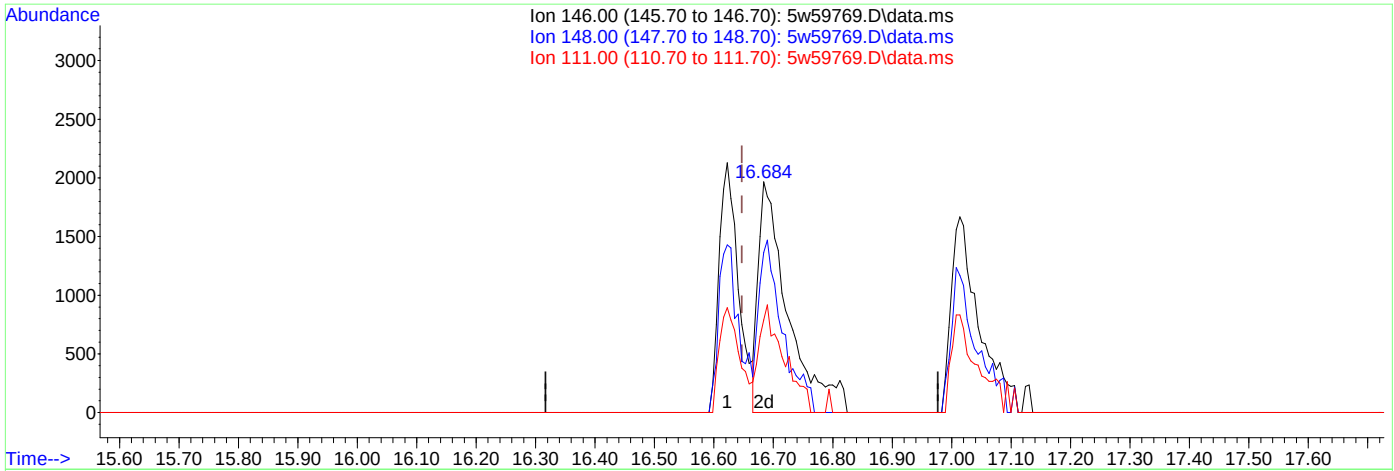
response 4669

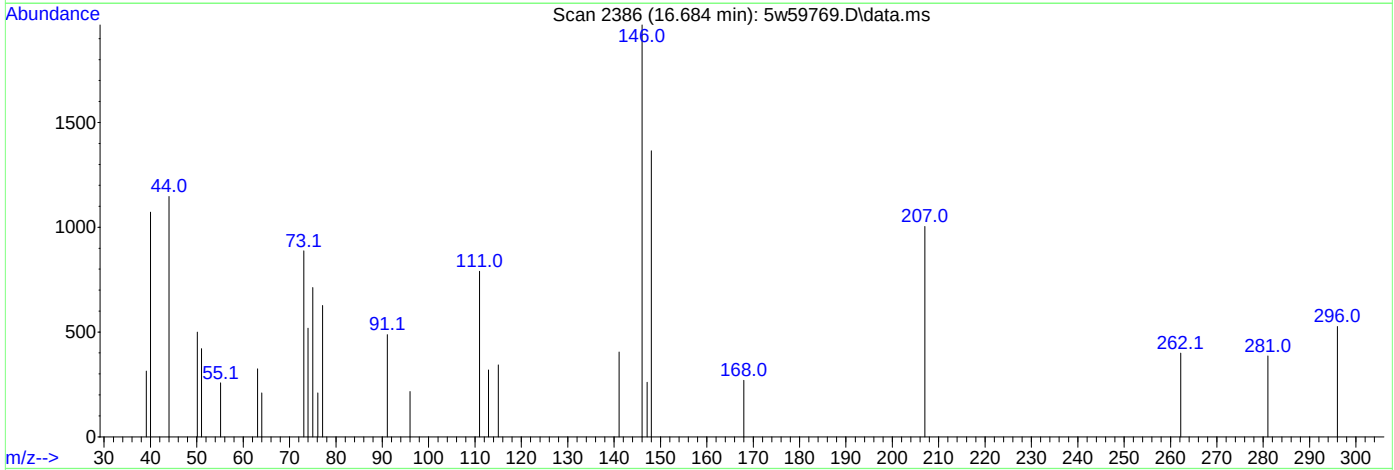
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	73.29
111.00	36.70	44.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.684min (+0.037) 0.05PPBV m

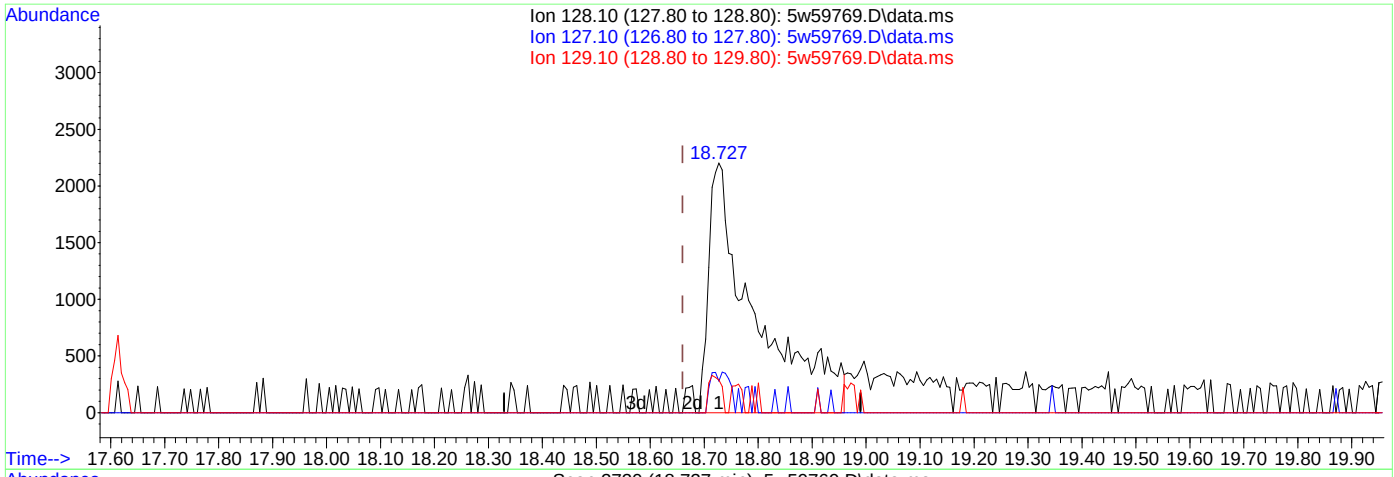
response 6829

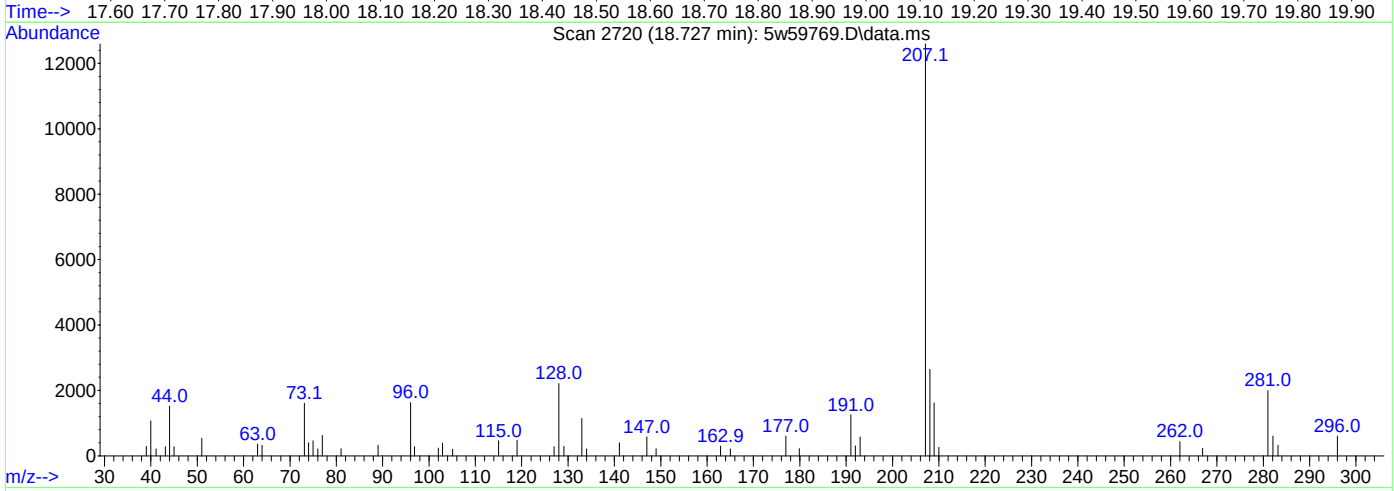
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	50.11
111.00	36.70	30.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.05PPBV

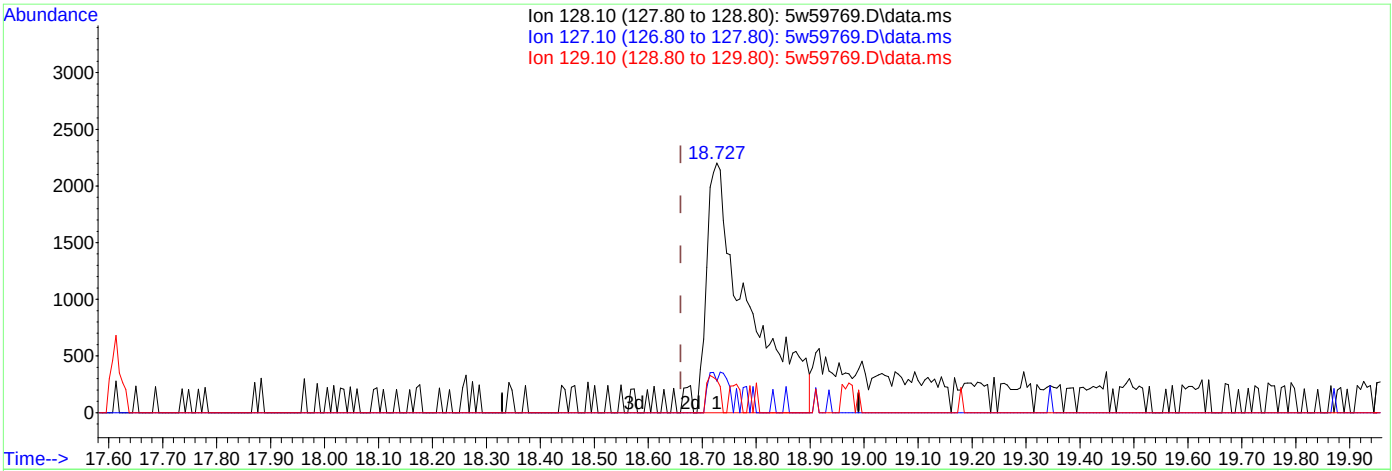
response 13130

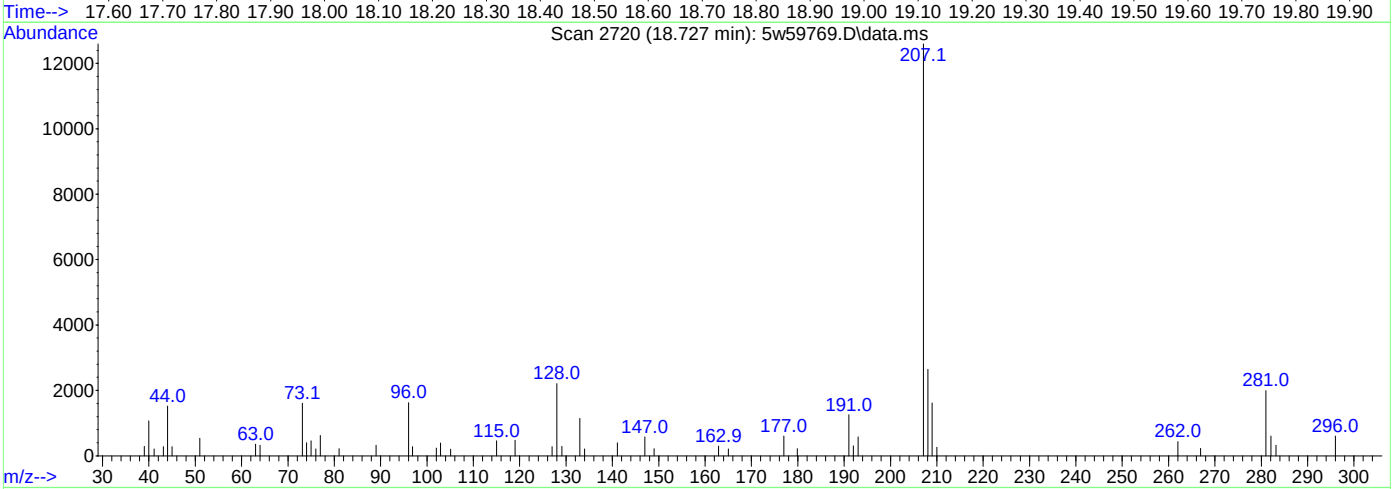
Ion	Exp%	Act%
128.10	100	100
127.10	13.30	6.81
129.10	11.40	3.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.04PPBV m

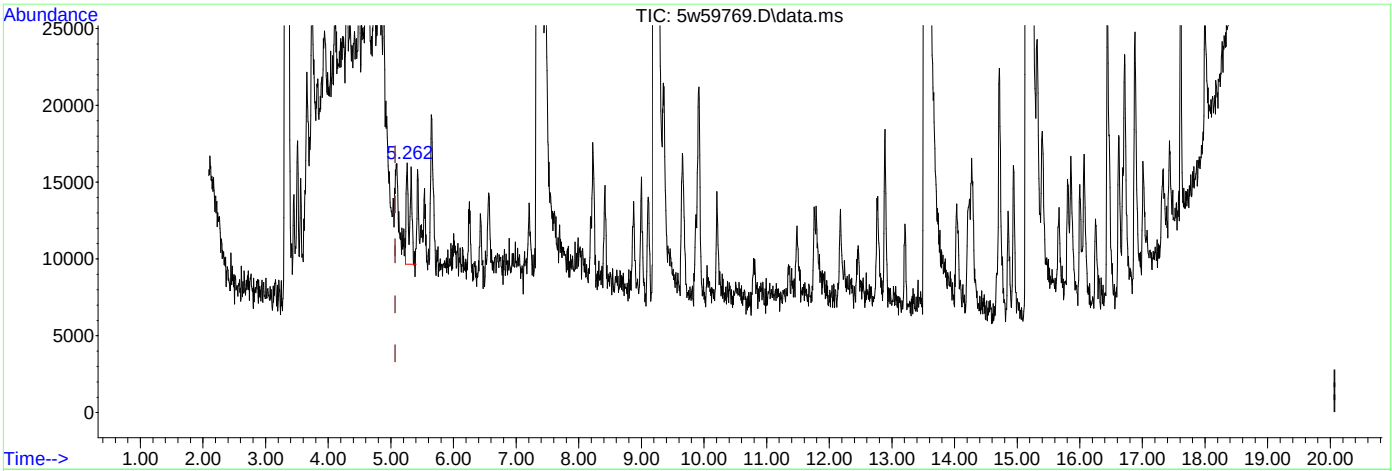
response 11614

Ion	Exp%	Act%
128.10	100	100
127.10	13.30	7.70
129.10	11.40	4.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration



TIC: 5w59769.D\data.ms

(110) TVHC as equiv Pentane

5.262min (+0.190) 0.10PPBV

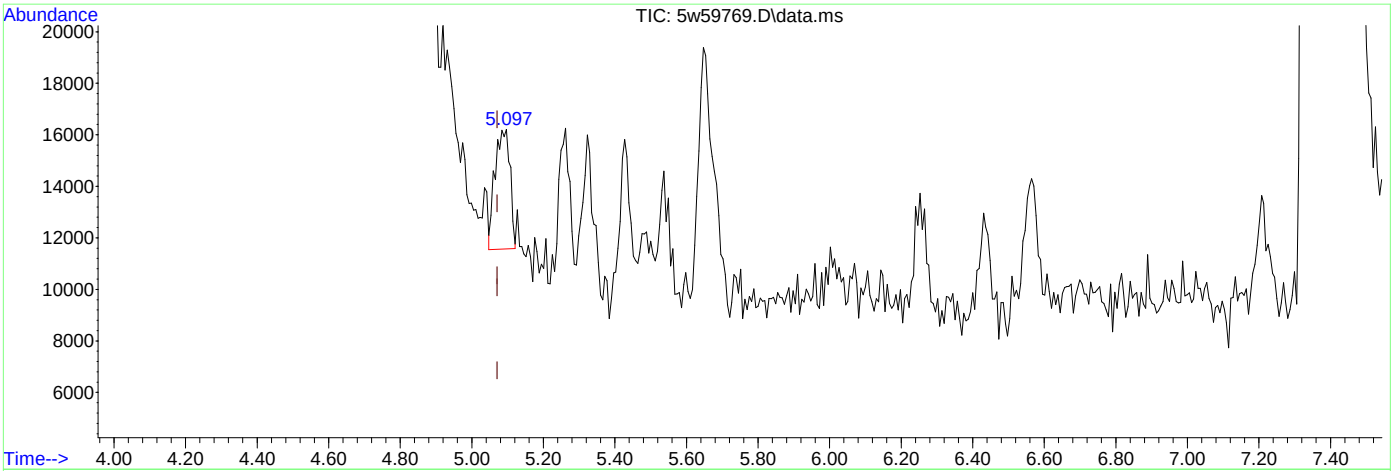
response 28223

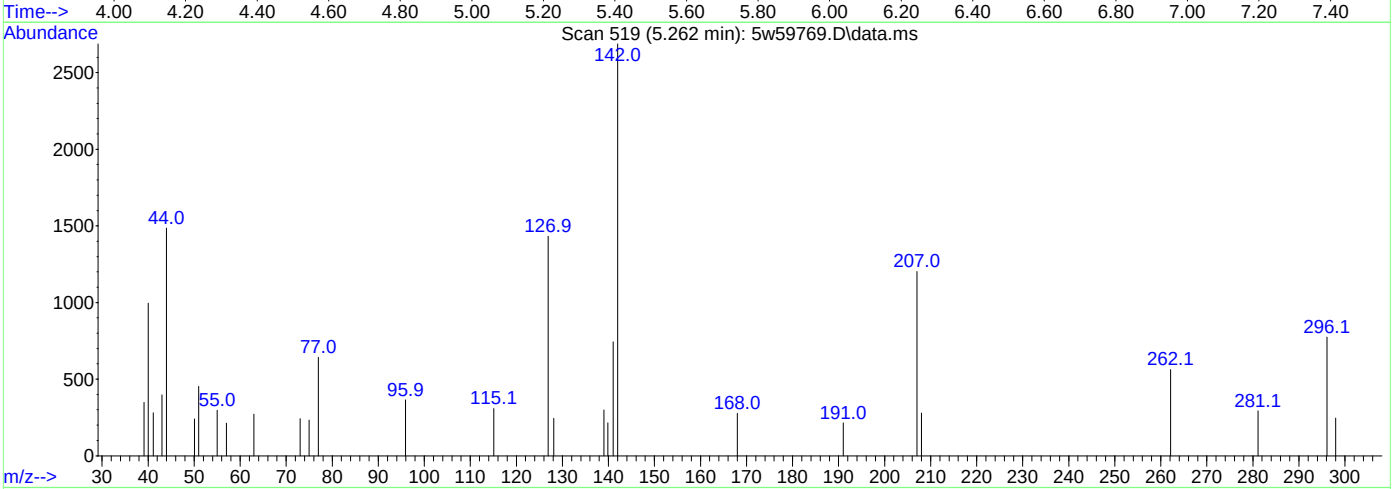
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(110) TVHC as equiv Pentane

5.097min (+0.025) 0.05PPBV m

response 13430

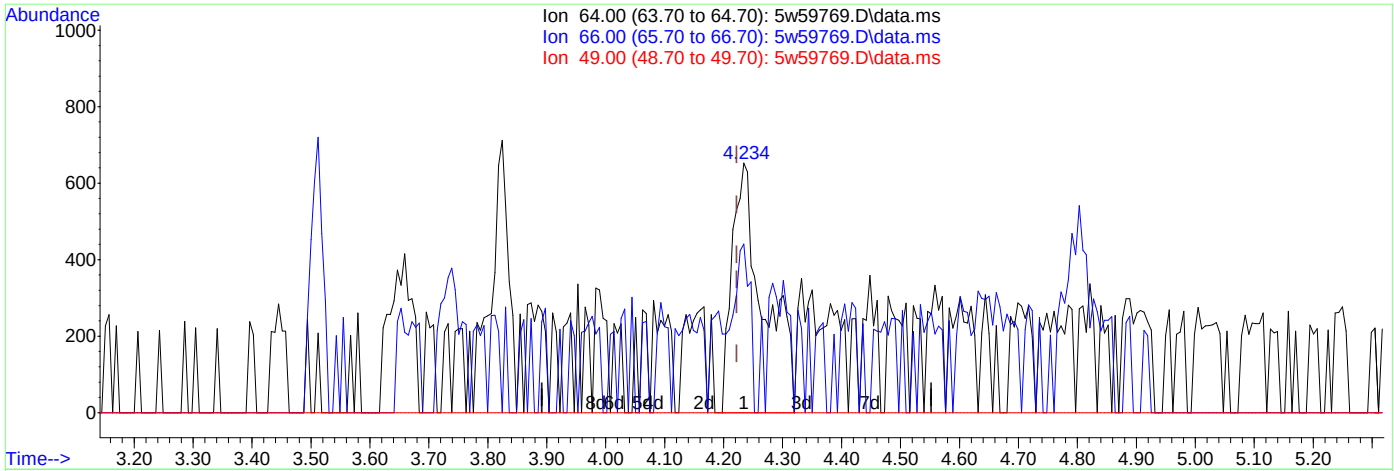
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

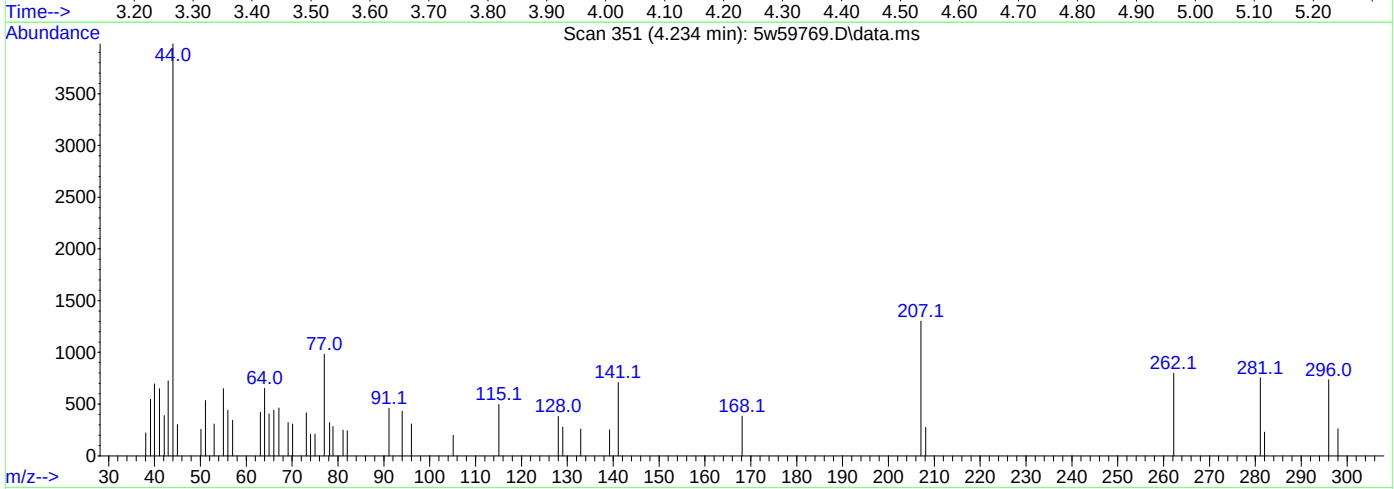
5W59769.D edits: TVHC as equiv Pentane

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.11PPBV

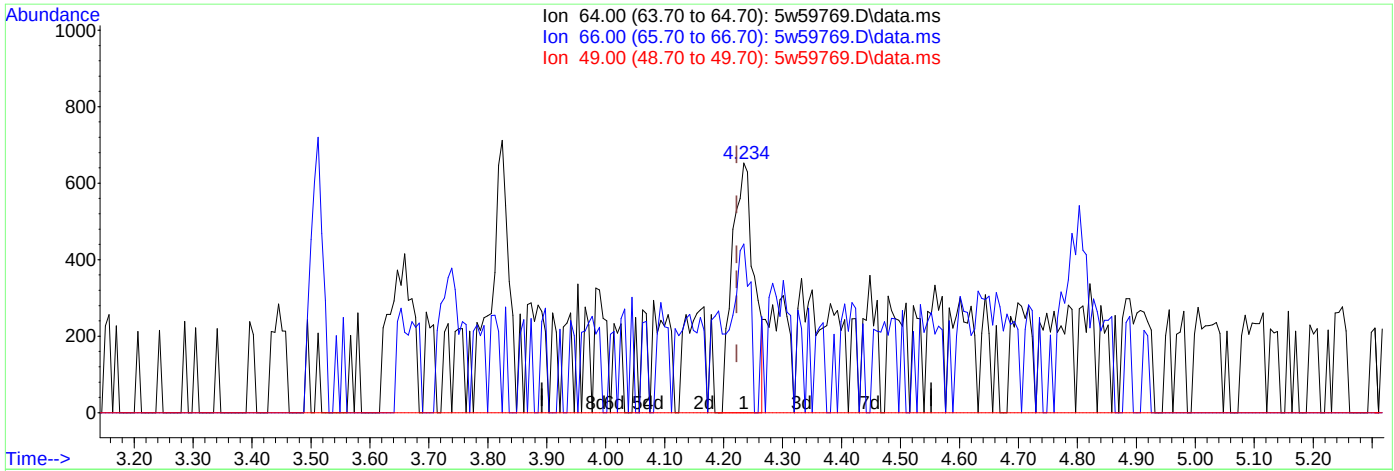
response 2438

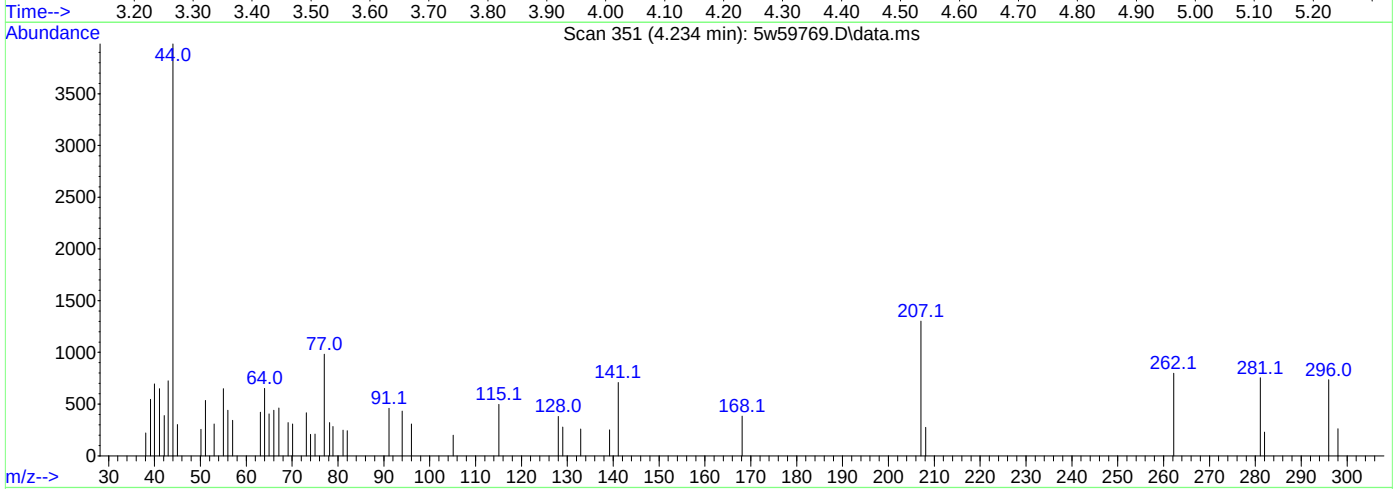
Ion	Exp%	Act%
64.00	100	100
66.00	33.10	31.58
49.00	25.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.08PPBV m

response 1697

Ion	Exp%	Act%
64.00	100	100
66.00	33.10	45.37
49.00	25.30	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	483296	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2143191	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1063437	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	486994	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1424858	10.91	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.10%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	3221	0.10	PPBV		95
3) FREON 152A	3.445	65	4358	0.13	PPBV		89
4) CHLORODIFLUOROMETHANE	3.482	67	1589	0.10	PPBV		90
5) CHLOROTRIFLUOROETHENE	3.506	116	7707	0.10	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	15163	0.11	PPBV		95
7) PROPYLENE	3.506	41	4519	0.13	PPBV	#	69
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13862	0.13	PPBV		96
9) FREON 114	3.732	85	15211	0.12	PPBV		98
10) CHLOROMETHANE	3.665	52	1901	0.13	PPBV	#	75
11) VINYL CHLORIDE	3.818	62	4992	0.11	PPBV		78
12) 1,3-BUTADIENE	3.916	54	3400	0.13	PPBV		93
13) n-BUTANE	3.947	43	5567	0.13	PPBV	#	95
14) BROMOMETHANE	4.106	94	5574	0.12	PPBV		88
15) CHLOROETHANE	4.228	64	3723	0.18	PPBV		72
16) DICHLOROFLUOROMETHANE	4.289	67	10972	0.11	PPBV		90
17) ACETONITRILE	4.522	41	2670m	0.10	PPBV		
18) ACROLEIN	4.601	56	1642m	0.11	PPBV		
19) FREON 123	4.595	83	13808m	0.13	PPBV		
20) FREON 123A	4.638	117	8167	0.13	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	13248	0.11	PPBV		89
22) ISOPROPYL ALCOHOL	4.932	45	12850	0.15	PPBV		84
23) ACETONE	4.724	58	3503	0.18	PPBV		87
24) PENTANE	5.072	42	6510	0.15	PPBV	#	42
25) IODOMETHANE	5.256	142	16474	0.11	PPBV		98
26) 1,1-DICHLOROETHYLENE	5.317	96	6043	0.12	PPBV		88
27) CARBON DISULFIDE	5.672	76	15443	0.12	PPBV		89
28) ETHANOL	4.344	45	5592	0.26	PPBV		87
29) BROMOETHENE	4.485	106	5356	0.11	PPBV		95
30) ACRYLONITRILE	5.091	52	3869	0.12	PPBV	#	91
31) METHYLENE CHLORIDE	5.427	84	6090	0.14	PPBV		98
32) 3-CHLOROPROPENE	5.531	76	2581	0.11	PPBV	#	52
33) FREON 113	5.647	151	8991	0.10	PPBV		97
34) TRANS-1,2-DICHLOROETHY...	6.247	96	6117	0.12	PPBV		82
35) TERTIARY BUTYL ALCOHOL	5.476	59	9217	0.09	PPBV		76
36) METHYL TERTIARY BUTYL ...	6.547	73	15796	0.12	PPBV		87
37) TETRAHYDROFURAN	7.966	72	1469	0.08	PPBV	#	45
38) HEXANE	7.385	57	9533	0.13	PPBV		83
40) 1,1-DICHLOROETHANE	6.430	63	12904	0.14	PPBV		91
41) METHYL ETHYL KETONE	6.920	72	956m	0.05	PPBV		
42) cis-1,2-DICHLOROETHYLENE	7.207	96	6979	0.13	PPBV		77
43) DIISOPROPYL ETHER	7.452	59	1846	0.09	PPBV	#	39
44) ETHYL ACETATE	7.544	61	434m	0.03	PPBV		
45) METHYL ACRYLATE	7.507	55	6719m	0.08	PPBV		
46) CHLOROFORM	7.483	83	11842	0.11	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	9616	0.11	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	11905	0.11	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	12586	0.10	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

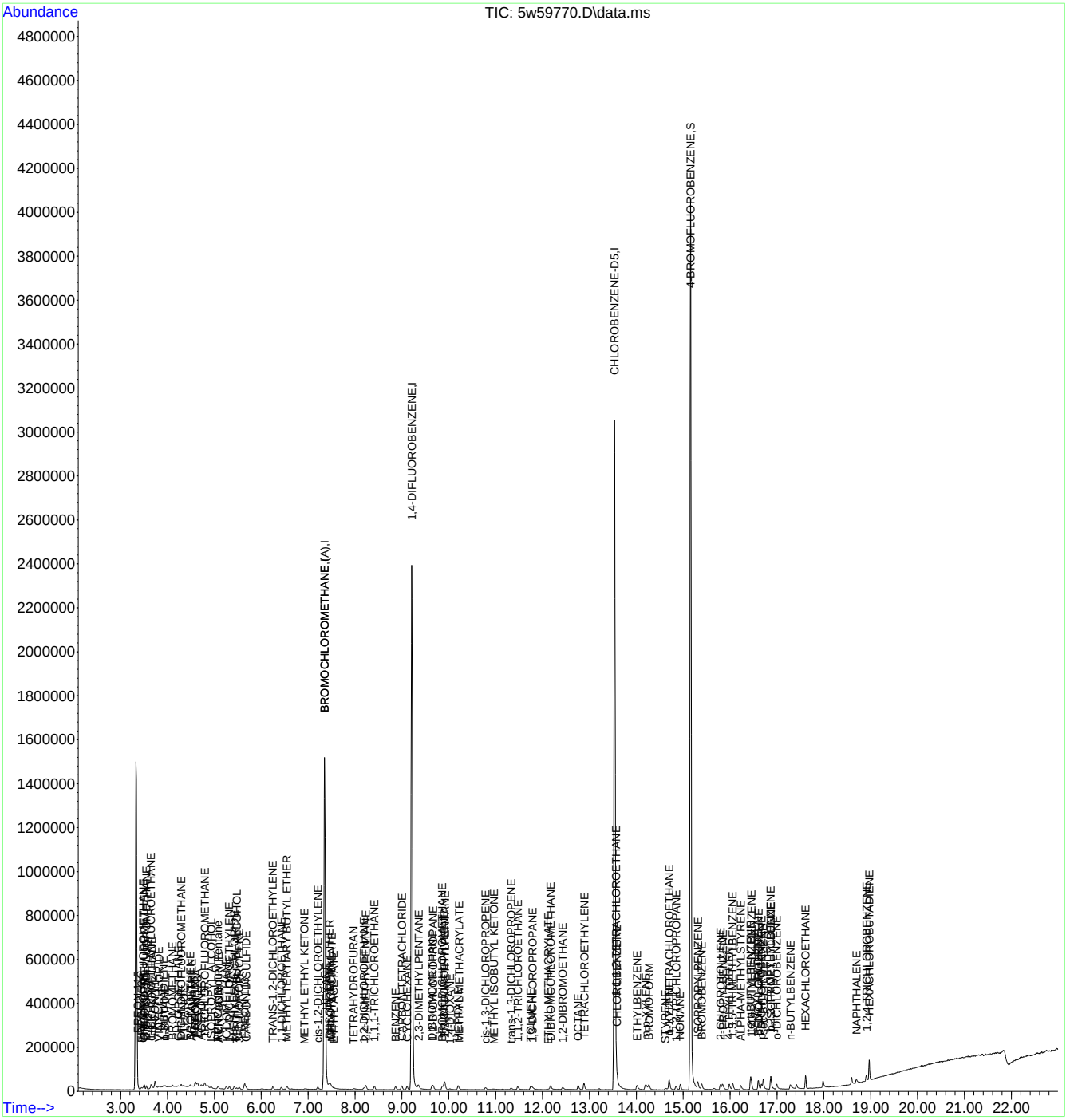
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	8.186	62	7761	0.10	PPBV		85
52)	BENZENE	8.865	78	15430	0.11	PPBV		91
53)	CYCLOHEXANE	9.110	84	5905	0.10	PPBV		90
54)	2,3-DIMETHYLPENTANE	9.361	71	2989	0.10	PPBV		89
55)	TRICHLOROETHYLENE	9.899	95	7303	0.10	PPBV		98
56)	1,2-DICHLOROPROPANE	9.667	63	9099	0.15	PPBV		85
57)	DIBROMOMETHANE	9.642	174	8479	0.11	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	12436	0.10	PPBV		94
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	24769	0.11	PPBV		93
61)	1,4-DIOXANE	10.028	88	3670	0.11	PPBV	#	1
62)	HEPTANE	10.199	43	10112	0.13	PPBV		90
63)	METHYL METHACRYLATE	10.217	69	3857	0.08	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.964	58	2182	0.05	PPBV	#	26
65)	cis-1,3-DICHLOROPROPENE	10.780	75	10824	0.11	PPBV		90
66)	TOLUENE	11.747	92	10446	0.10	PPBV		90
67)	1,3-DICHLOROPROPANE	11.789	76	9064	0.10	PPBV	#	90
68)	trans-1,3-DICHLOROPROPENE	11.331	75	9955	0.11	PPBV		88
69)	1,1,2-TRICHLOROETHANE	11.471	83	5972	0.10	PPBV		90
72)	ETHYL METHACRYLATE	12.120	69	5758	0.08	PPBV	#	65
73)	TETRACHLOROETHYLENE	12.891	164	8344	0.12	PPBV		90
74)	DIBROMOCHLOROMETHANE	12.169	129	13809	0.11	PPBV		97
75)	1,2-DIBROMOETHANE	12.426	107	10727	0.11	PPBV	#	98
76)	OCTANE	12.756	43	11856	0.13	PPBV		95
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	8635	0.11	PPBV		99
78)	CHLOROBENZENE	13.588	112	15456	0.12	PPBV	#	49
79)	ETHYLBENZENE	14.016	91	24398	0.12	PPBV		95
80)	m,p-XYLENE	14.200	106	17695	0.22	PPBV		94
81)	o-XYLENE	14.701	106	8363	0.11	PPBV		88
82)	STYRENE	14.616	104	12755	0.11	PPBV		84
83)	NONANE	14.934	43	13253	0.14	PPBV		94
84)	BROMOFORM	14.267	173	12500	0.10	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.701	83	15380	0.12	PPBV		96
87)	1,2,3-TRICHLOROPROPANE	14.848	75	13012	0.13	PPBV		86
88)	ISOPROPYLBENZENE	15.313	105	26261	0.12	PPBV		98
89)	BROMOBENZENE	15.393	77	13681	0.12	PPBV		90
90)	2-CHLOROTOLUENE	15.797	126	6870	0.11	PPBV		79
91)	n-PROPYLBENZENE	15.845	120	6334	0.10	PPBV		96
92)	4-ETHYLTOLUENE	15.980	105	22792	0.11	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.054	105	24501	0.13	PPBV		92
94)	ALPHA-METHYLSTYRENE	16.231	118	9018	0.09	PPBV		93
95)	tert-BUTYLBENZENE	16.439	134	4502	0.11	PPBV		89
96)	1,2,4-TRIMETHYLBENZENE	16.457	105	21144	0.12	PPBV		95
97)	m-DICHLOROBENZENE	16.604	146	14099	0.10	PPBV		98
98)	BENZYL CHLORIDE	16.598	91	15140	0.09	PPBV		92
99)	p-DICHLOROBENZENE	16.671	146	17844	0.12	PPBV		99
100)	sec-BUTYLBENZENE	16.708	134	5680	0.11	PPBV	#	86
101)	1,2,3-TRIMETHYLBENZENE	16.861	105	23306	0.12	PPBV		93
102)	p-ISOPROPYLTOLUENE	16.867	134	6197	0.11	PPBV	#	80
103)	o-DICHLOROBENZENE	16.996	146	15528	0.11	PPBV		97
104)	n-BUTYLBENZENE	17.289	134	5383	0.09	PPBV	#	64
105)	HEXACHLOROETHANE	17.607	117	10817	0.11	PPBV		96
106)	HEXACHLOROBUTADIENE	18.966	225	14991	0.12	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.910	180	13603	0.10	PPBV		93
108)	NAPHTHALENE	18.696	128	31596	0.11	PPBV		94
110)	TVHC as equiv Pentane	5.078	TIC	29029	0.10	PPBV		100

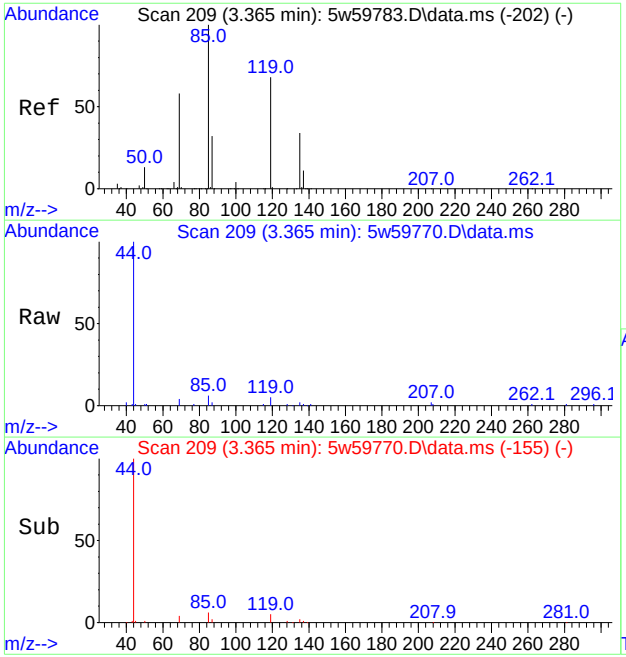
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

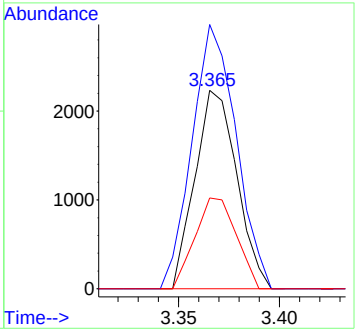


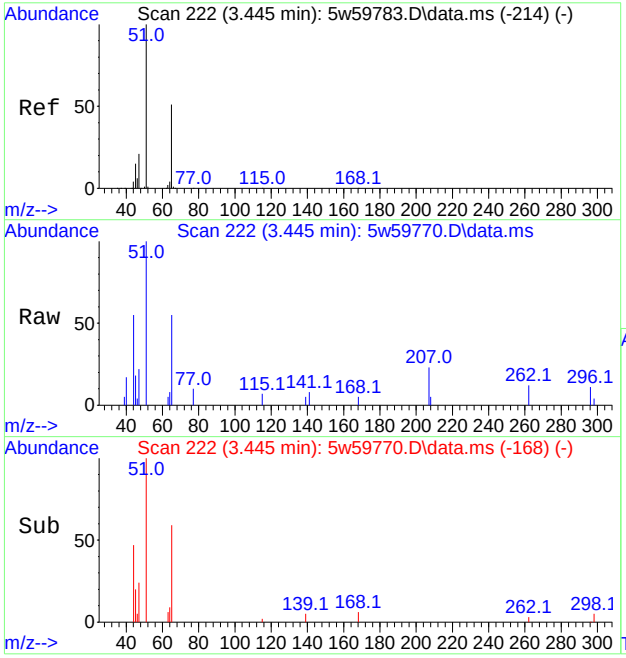


#2
FREON 115
Concen: 0.10 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:119 Resp: 3221

Ion	Ratio	Lower	Upper
119	100		
85	140.3	116.2	176.2
135	45.2	20.6	80.6

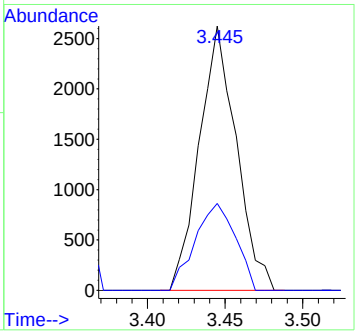


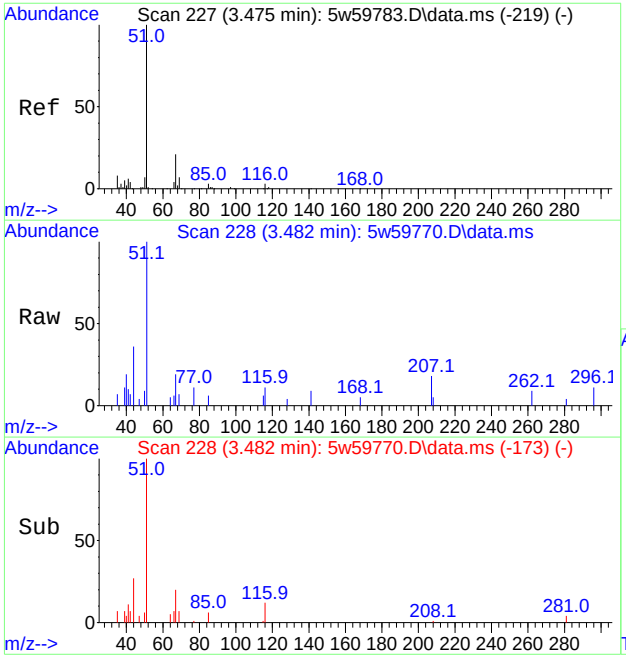


#3
FREON 152A
Concen: 0.13 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 4358

Ion	Ratio	Lower	Upper
65	100		
45	35.8	0.0	60.0

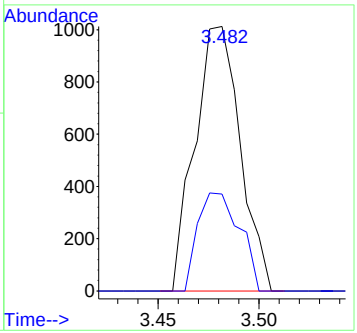


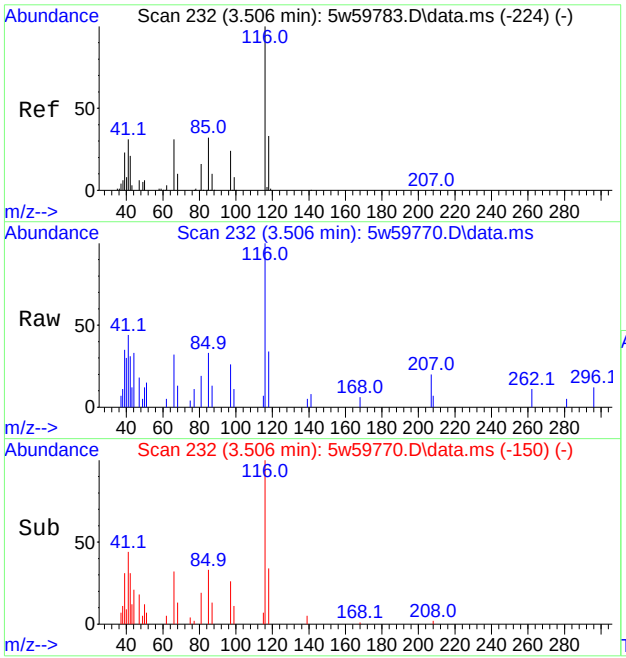


#4
CHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 1589

Ion	Ratio	Lower	Upper
67	100		
69	36.6	1.0	61.0

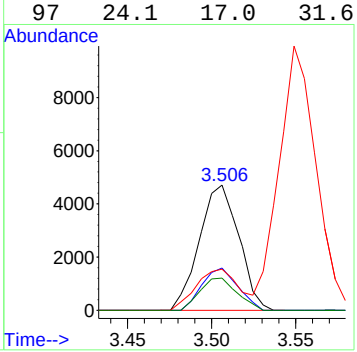


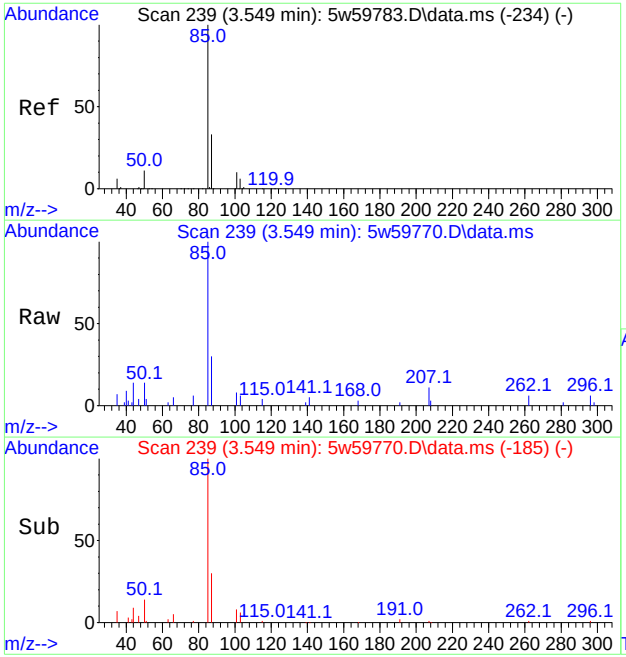


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:116 Resp: 7707

Ion	Ratio	Lower	Upper
116	100		
118	30.8	22.9	42.5
85	36.3	23.7	44.1
97	24.1	17.0	31.6

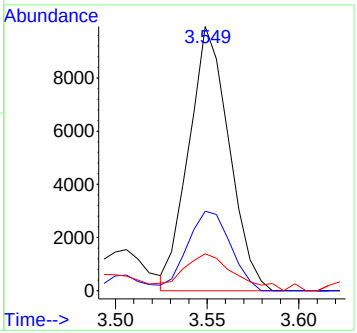


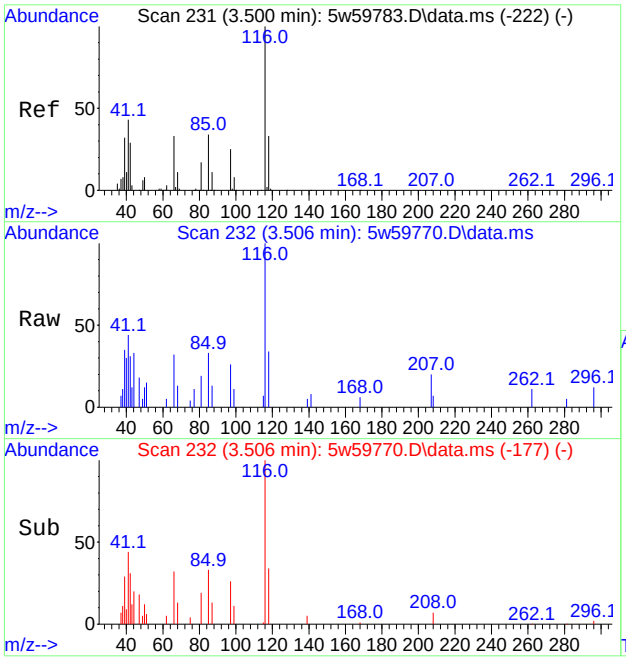


#6
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15163

Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.5	62.5
50	18.6	0.0	41.7

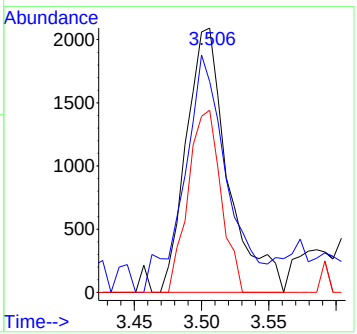


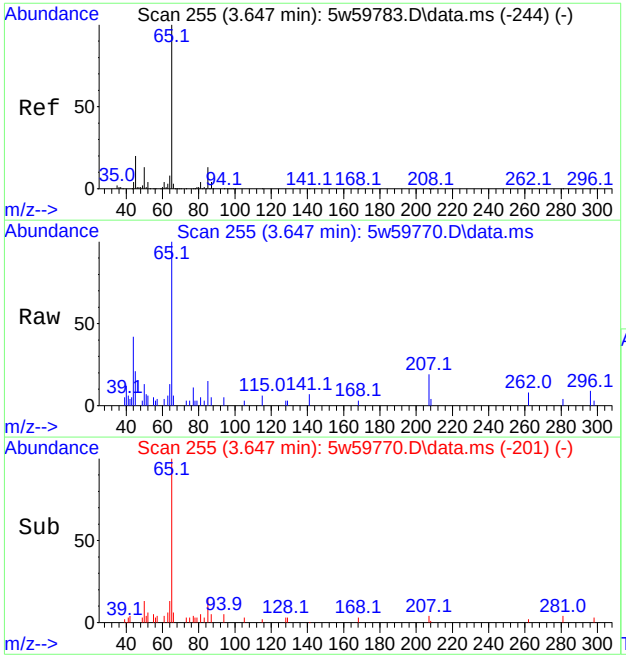


#7
PROPYLENE
Concen: 0.13 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 4519

Ion	Ratio	Lower	Upper
41	100		
39	113.7	45.1	105.1#
42	54.2	36.3	96.3

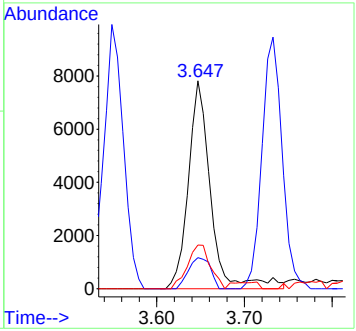


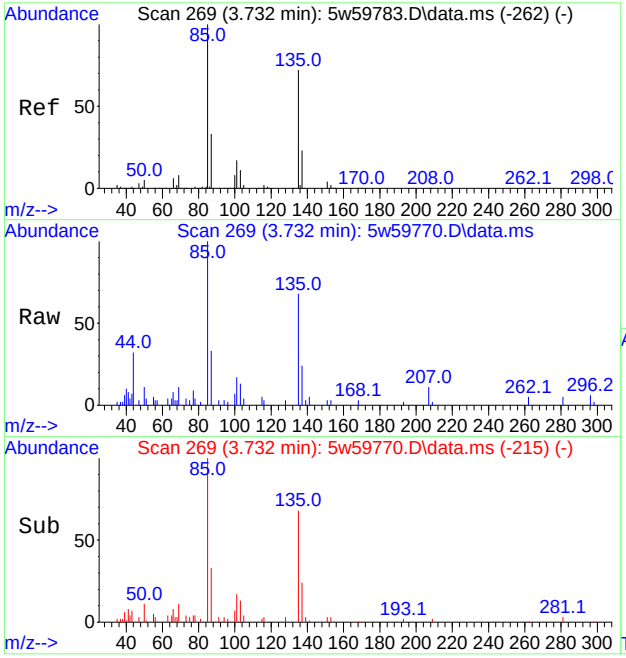


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.13 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 13862

Ion	Ratio	Lower	Upper
65	100		
85	14.7	11.5	21.3
45	21.5	14.0	26.0

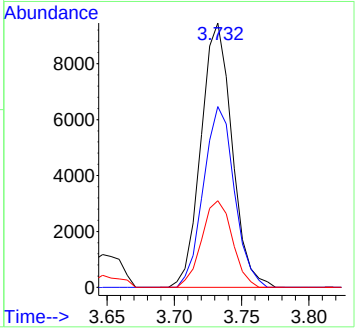


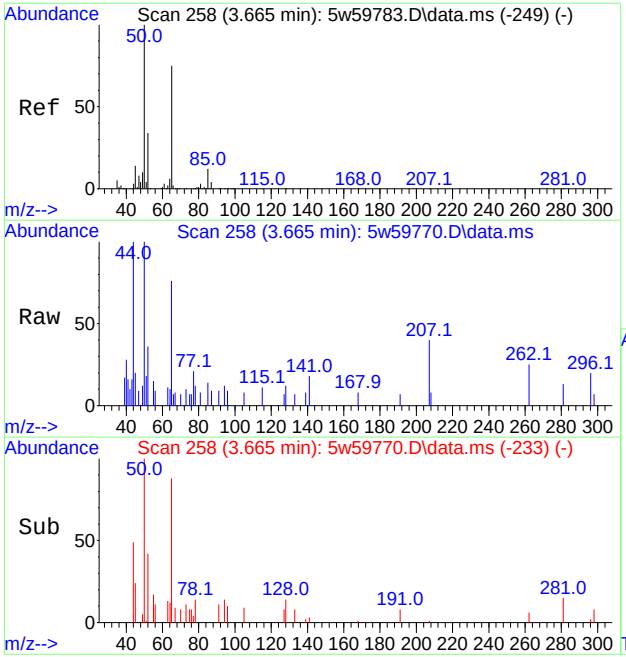


#9
FREON 114
Concen: 0.12 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15211

Ion	Ratio	Lower	Upper
85	100		
135	68.1	40.5	100.5
87	32.4	3.0	63.0

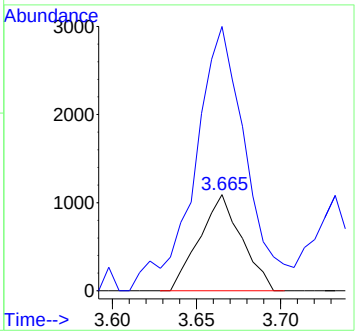


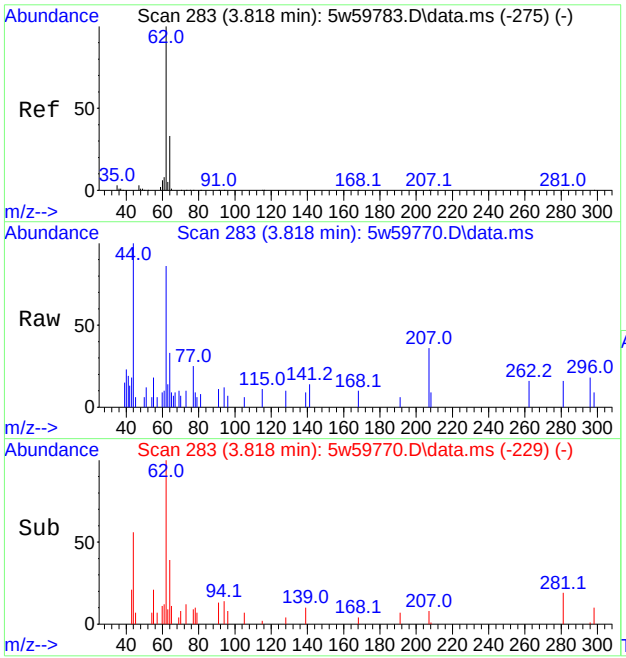


#10
CHLOROMETHANE
Concen: 0.13 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 1901

Ion	Ratio	Lower	Upper
52	100		
50	249.3	267.9	327.9#

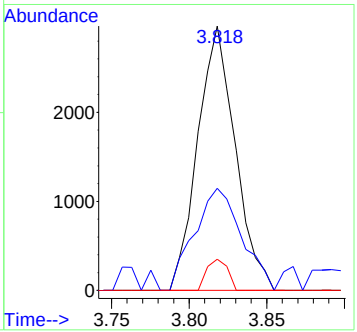


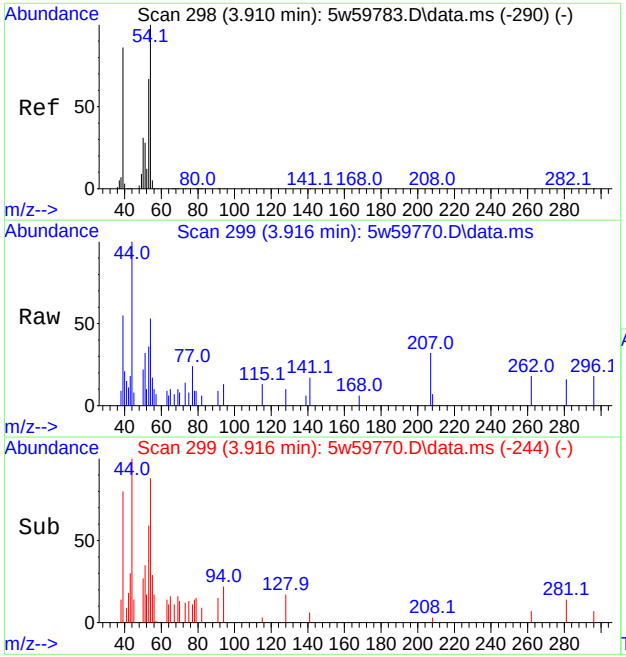


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 4992

Ion	Ratio	Lower	Upper
62	100		
64	48.5	3.6	63.6
61	6.6	0.0	38.2

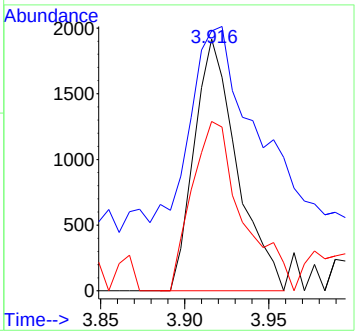


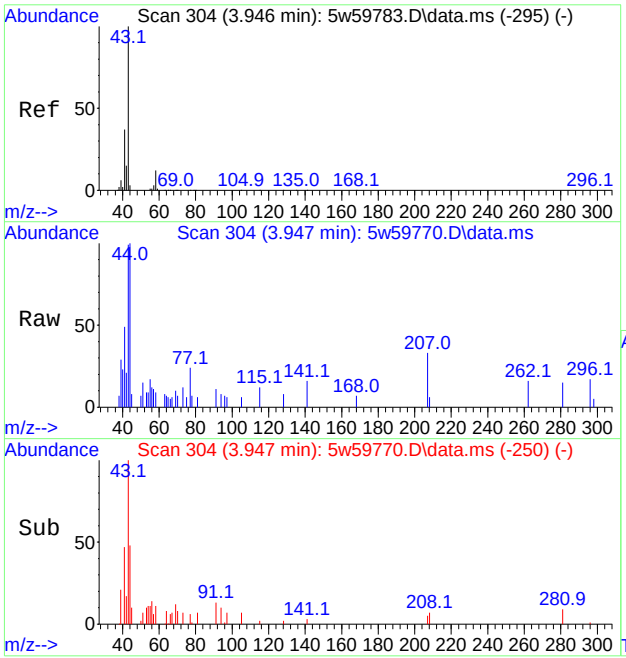


#12
1,3-BUTADIENE
Concen: 0.13 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 54 Resp: 3400

Ion	Ratio	Lower	Upper
54	100		
39	107.9	82.0	142.0
53	79.3	40.2	100.2

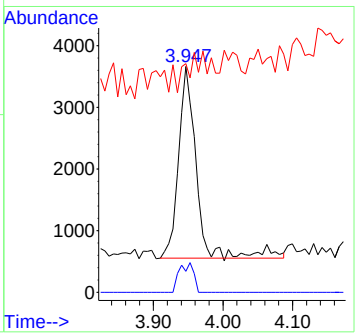


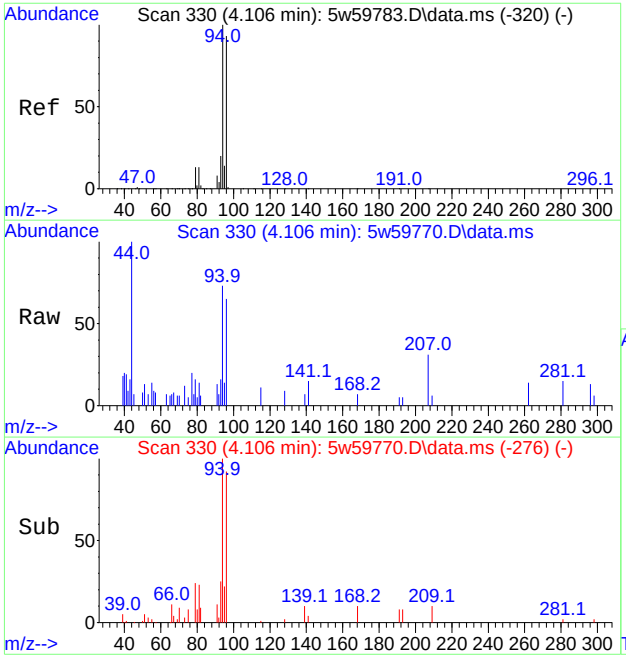


#13
n-BUTANE
Concen: 0.13 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 5567

Ion	Ratio	Lower	Upper
43	100		
58	12.4	0.0	42.6
44	0.0	0.0	34.9

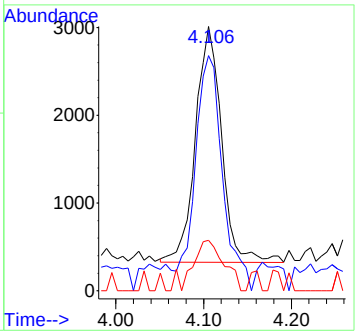


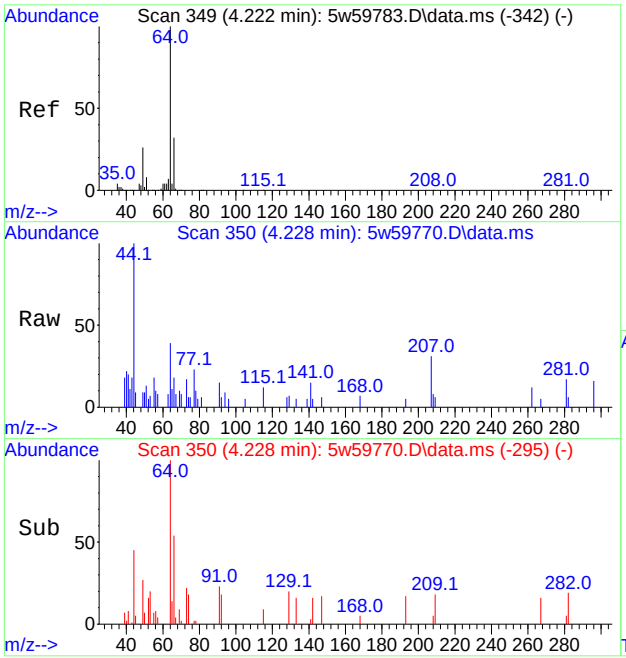


#14
BROMOMETHANE
Concen: 0.12 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 94 Resp: 5574

Ion	Ratio	Lower	Upper
94	100		
96	104.1	65.3	125.3
95	26.0	0.0	44.1

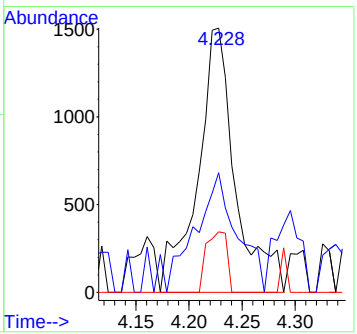


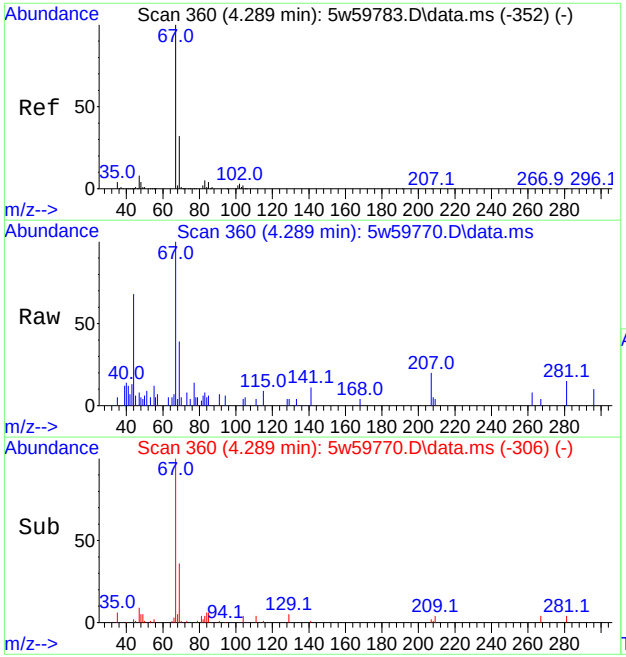


#15
CHLOROETHANE
Concen: 0.18 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 64 Resp: 3723

Ion	Ratio	Lower	Upper
64	100		
66	49.7	3.1	63.1
49	12.5	0.0	55.3

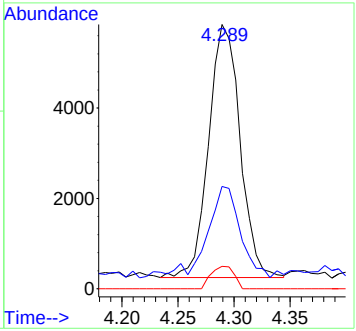


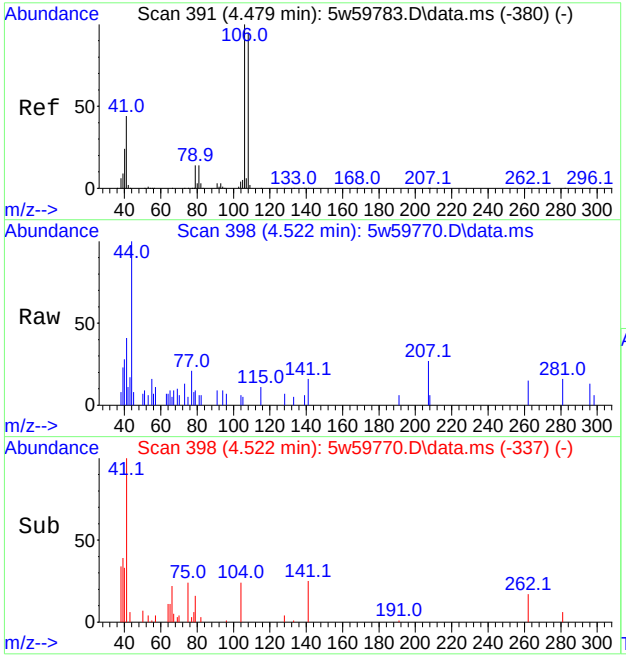


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 10972

Ion	Ratio	Lower	Upper
67	100		
69	38.6	22.7	42.3
47	6.5	5.6	10.4

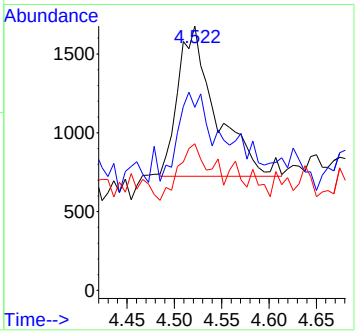


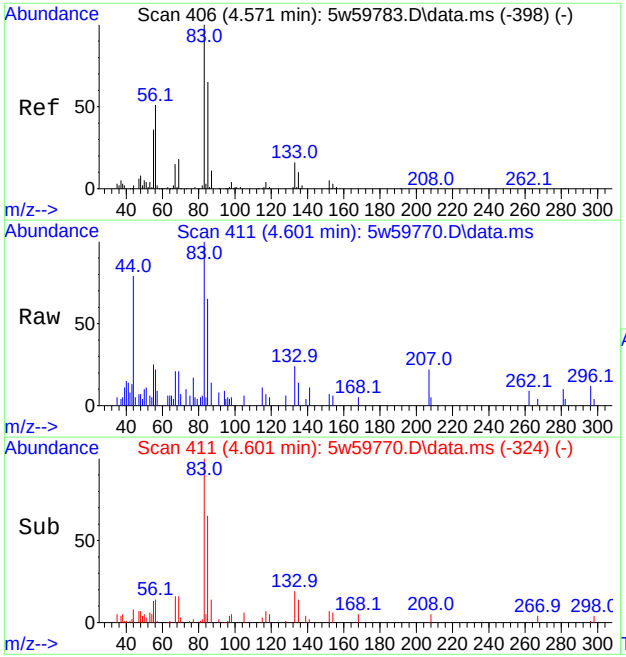


#17
ACETONITRILE
Concen: 0.10 PPBV m
RT: 4.522 min Scan# 398
Delta R.T. 0.043 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 2670

Ion	Ratio	Lower	Upper
41	100		
40	100.2	37.9	70.5#
39	46.6	13.4	24.8#

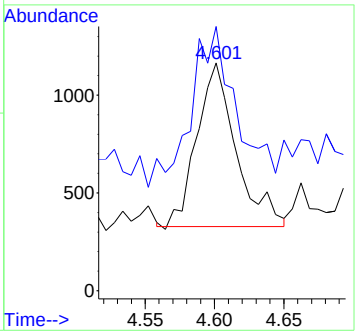


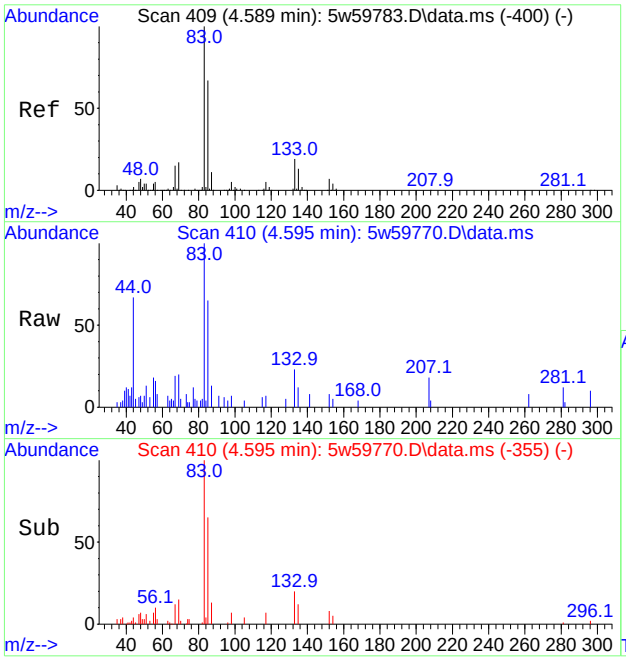


#18
ACROLEIN
Concen: 0.11 PPBV m
RT: 4.601 min Scan# 411
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 56 Resp: 1642

Ion	Ratio	Lower	Upper
56	100		
55	106.4	46.6	86.6#

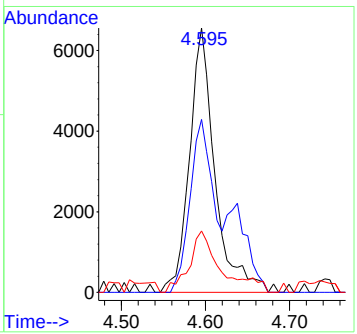


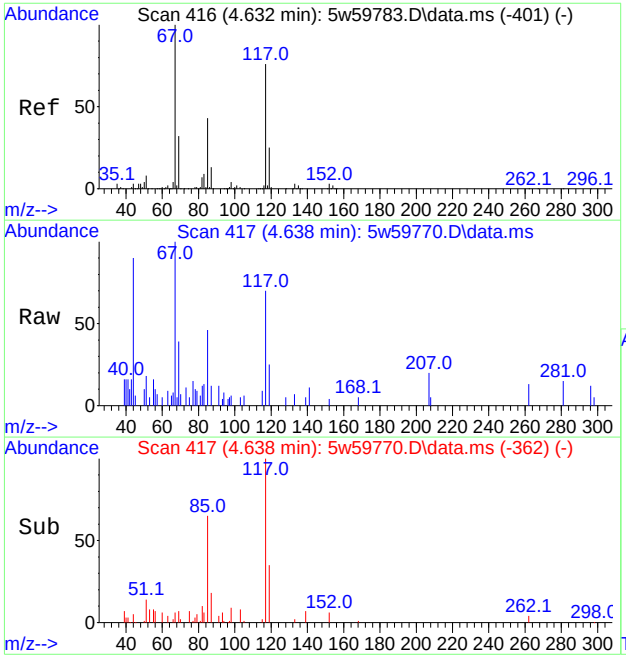


#19
FREON 123
Concen: 0.13 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 13808

Ion	Ratio	Lower	Upper
83	100		
85	60.2	34.0	94.0
133	28.7	0.0	50.7

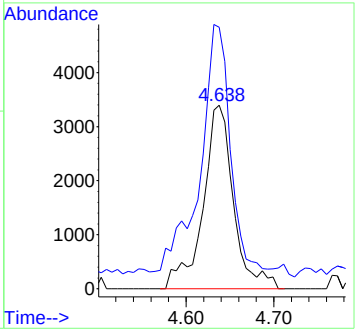


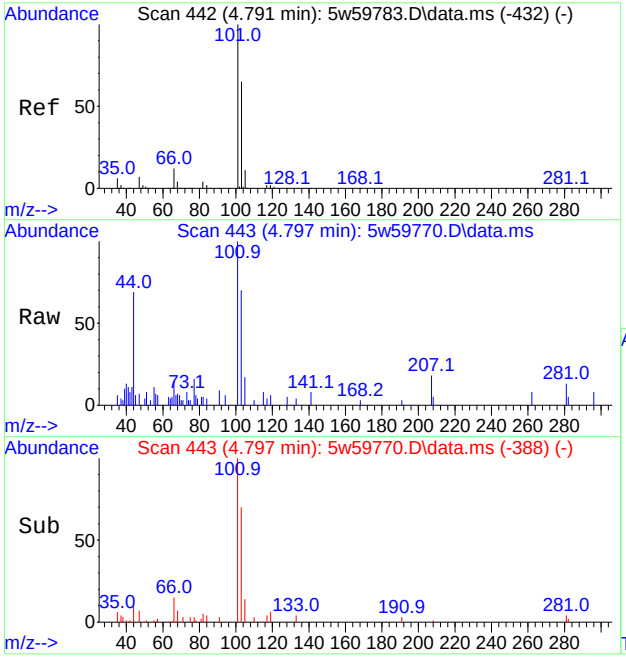


#20
FREON 123A
Concen: 0.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 8167

Ion	Ratio	Lower	Upper
117	100		
67	143.7	114.6	174.6

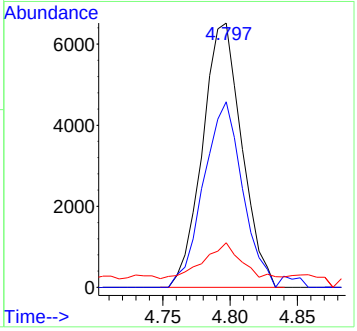


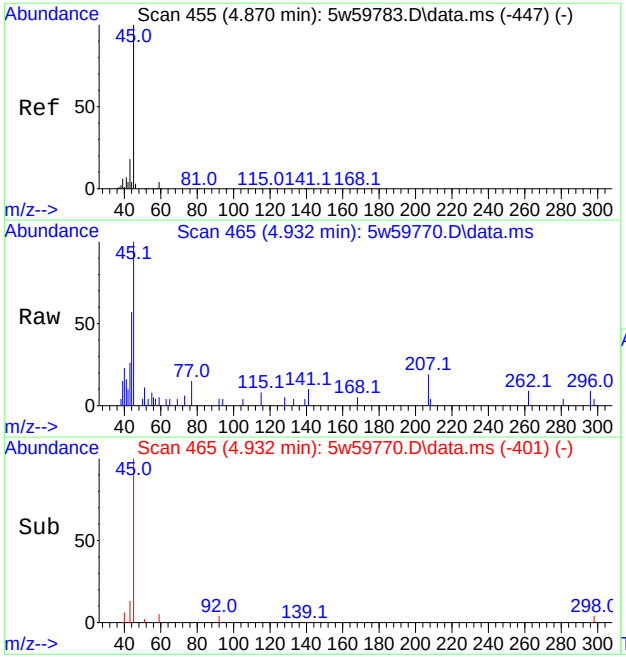


#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:101 Resp: 13248

Ion	Ratio	Lower	Upper
101	100		
103	69.6	35.0	95.0
105	25.5	0.0	40.7

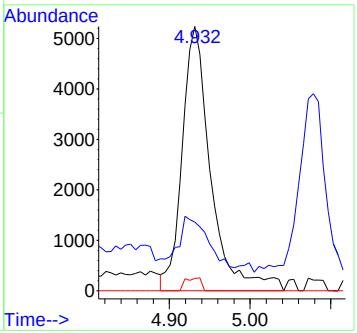


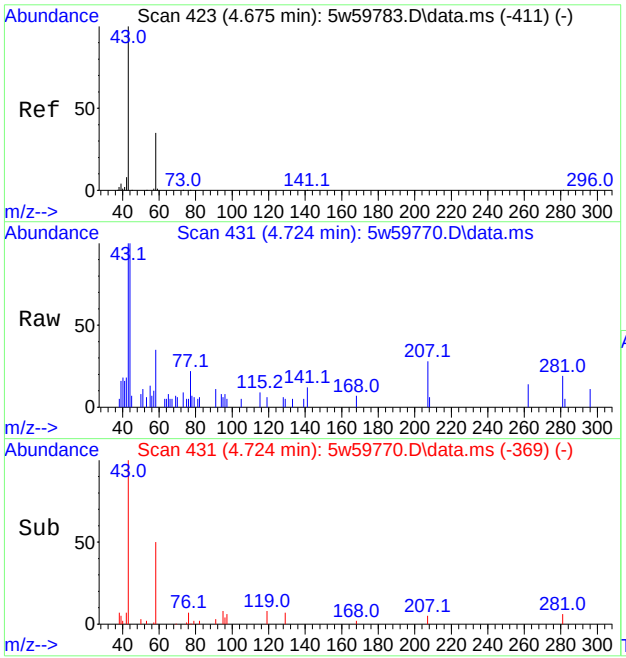


#22
ISOPROPYL ALCOHOL
Concen: 0.15 PPBV
RT: 4.932 min Scan# 465
Delta R.T. 0.062 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 12850

Ion	Ratio	Lower	Upper
45	100		
43	26.0	0.0	47.8
59	4.7	0.0	34.1

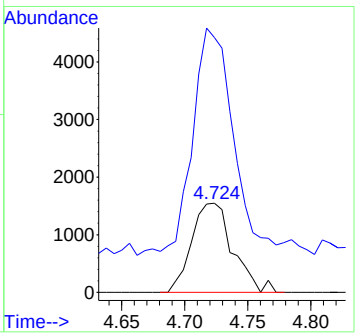


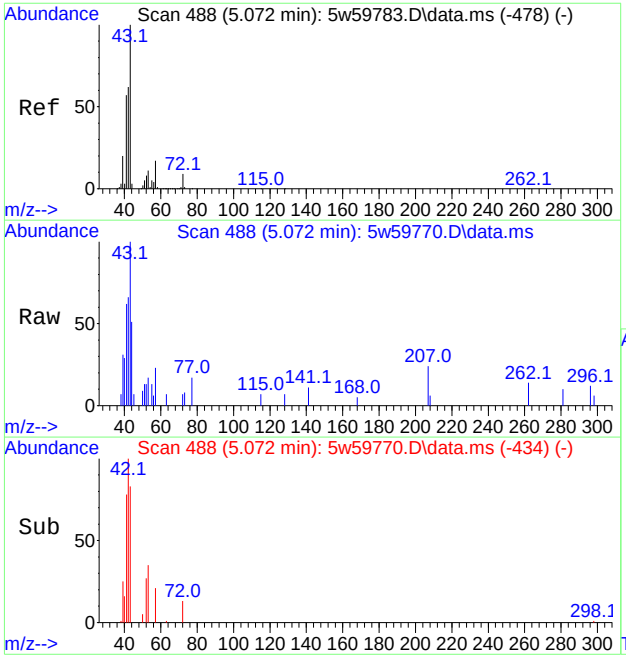


#23
ACETONE
Concen: 0.18 PPBV
RT: 4.724 min Scan# 431
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 3503

Ion	Ratio	Lower	Upper
58	100		
43	258.5	252.3	312.3

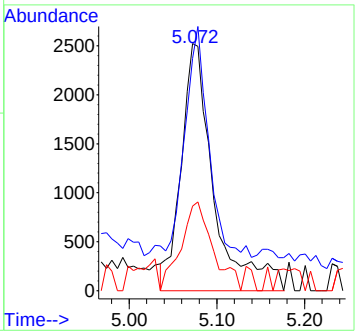


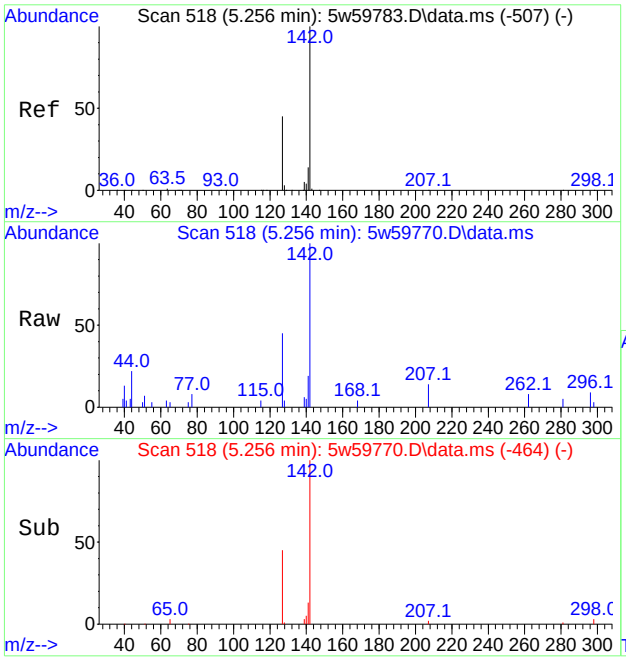


#24
PENTANE
Concen: 0.15 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 42 Resp: 6510

Ion	Ratio	Lower	Upper
42	100		
41	160.1	62.3	122.3#
57	35.3	0.0	57.7

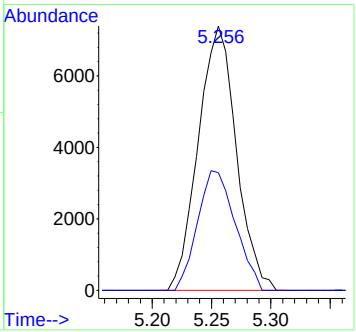


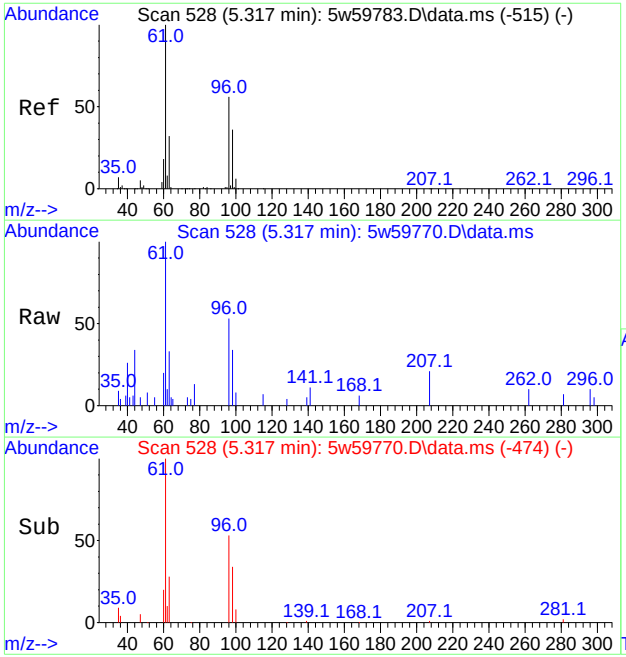


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:142 Resp: 16474

Ion	Ratio	Lower	Upper
142	100		
127	44.7	16.0	76.0

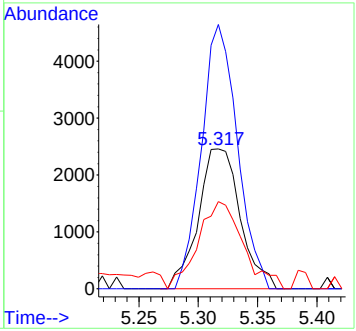


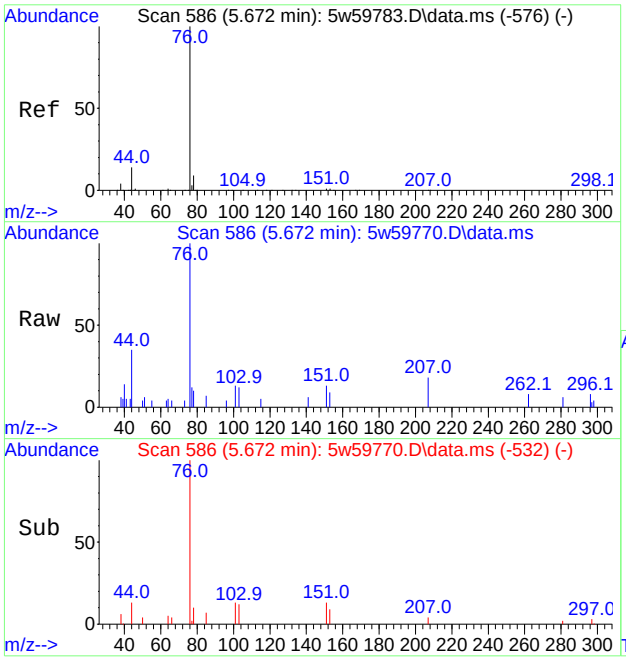


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6043

Ion	Ratio	Lower	Upper
96	100		
61	161.4	148.5	208.5
63	66.7	27.4	87.4

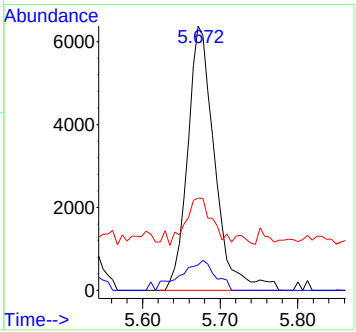


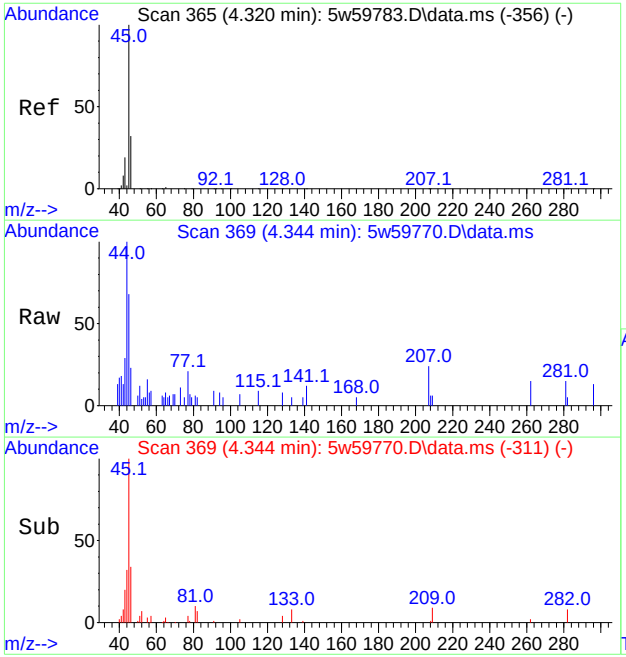


#27
CARBON DISULFIDE
Concen: 0.12 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 15443

Ion	Ratio	Lower	Upper
76	100		
78	14.8	0.0	41.5
44	19.6	0.0	44.6

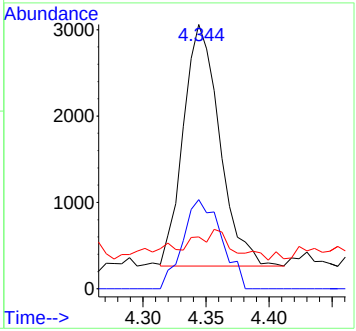


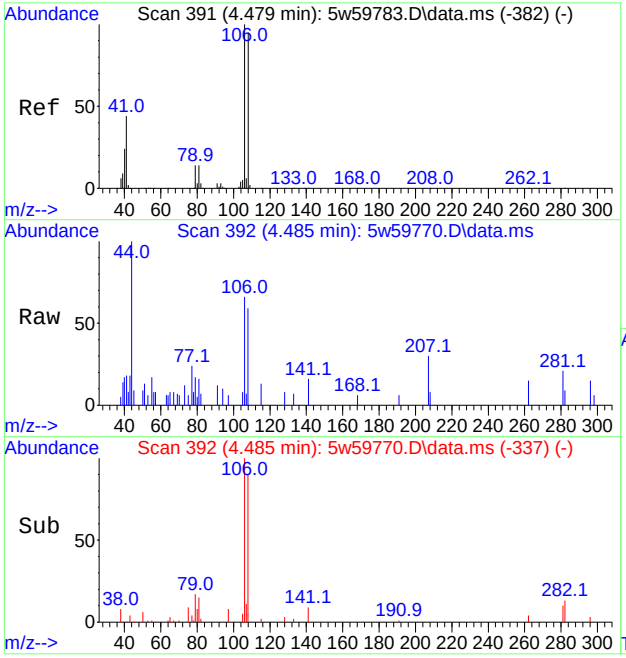


#28
ETHANOL
Concen: 0.26 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 5592

Ion	Ratio	Lower	Upper
45	100		
46	39.3	2.0	62.0
42	12.5	0.0	38.5

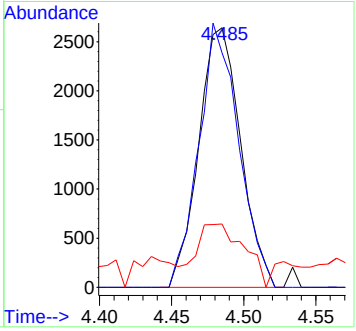


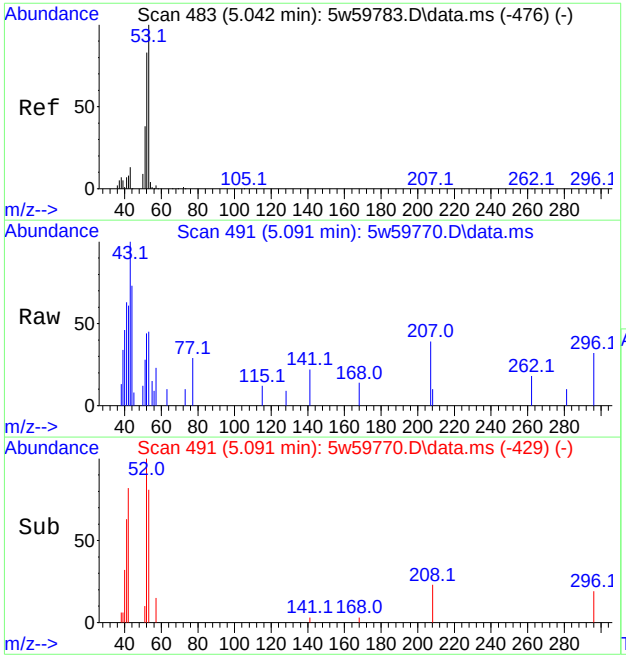


#29
BROMOETHENE
Concen: 0.11 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 5356

Ion	Ratio	Lower	Upper
106	100		
108	96.6	65.6	125.6
81	28.1	0.0	43.9

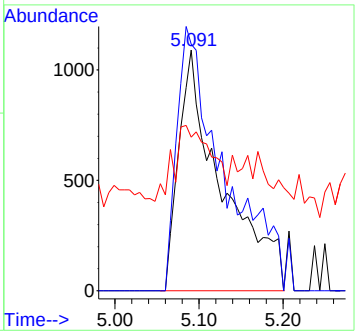


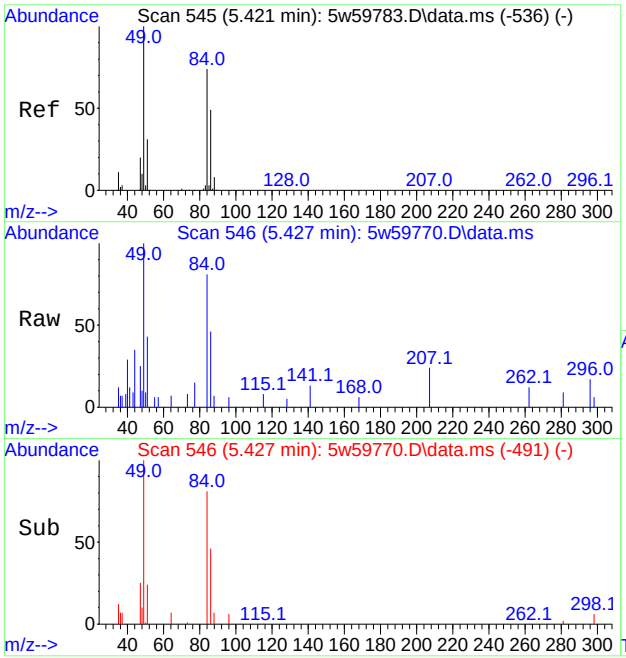


#30
ACRYLONITRILE
Concen: 0.12 PPBV
RT: 5.091 min Scan# 491
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 3869

Ion	Ratio	Lower	Upper
52	100		
53	121.0	85.8	159.4
51	65.0	32.3	60.1#

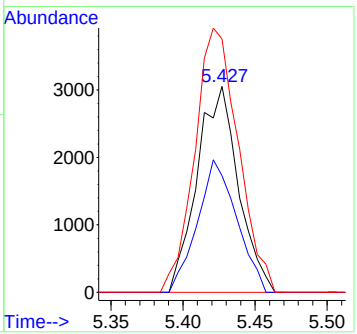


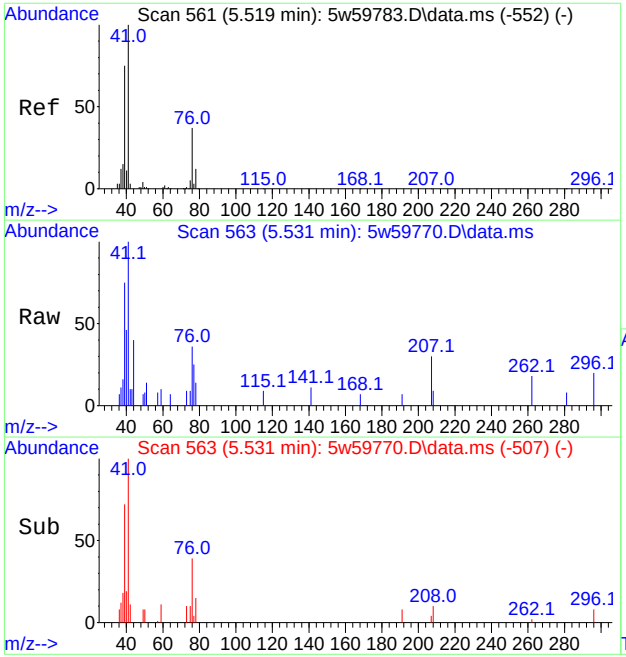


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 6090

Ion	Ratio	Lower	Upper
84	100		
86	61.0	35.2	95.2
49	135.4	105.3	165.3

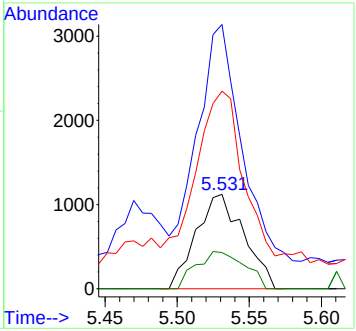


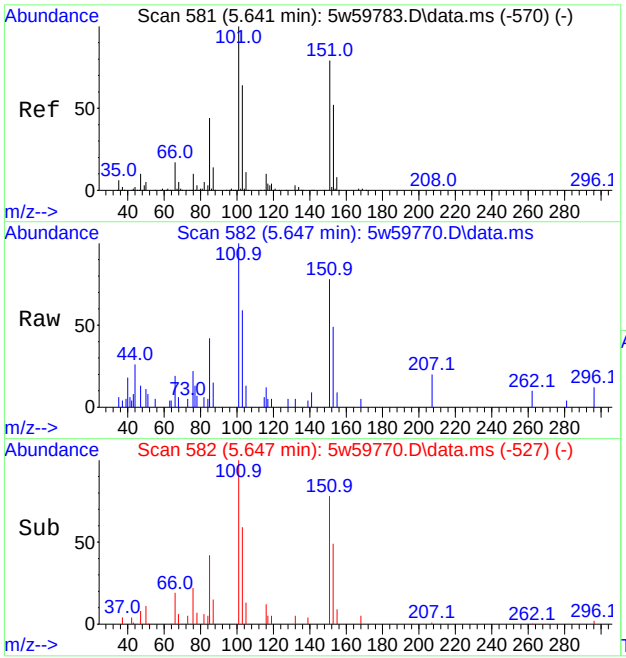


#32
3-CHLOROPROPENE
Concen: 0.11 PPBV
RT: 5.531 min Scan# 563
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 2581

Ion	Ratio	Lower	Upper
76	100		
41	416.2	240.8	300.8#
39	186.5	173.6	233.6
78	40.1	2.8	62.8

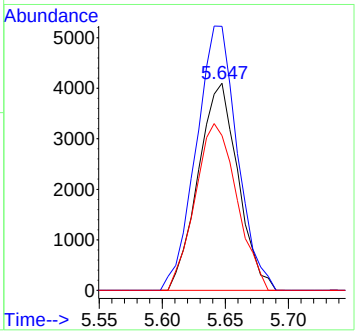


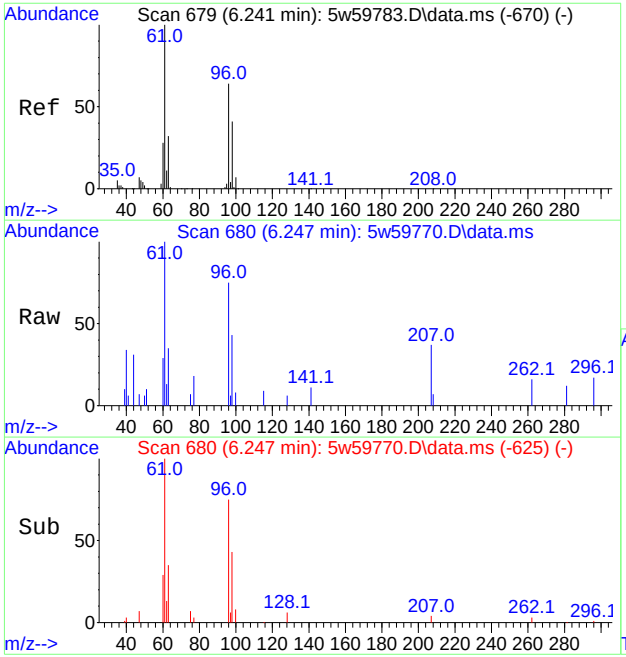


#33
FREON 113
Concen: 0.10 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:151 Resp: 8991

Ion	Ratio	Lower	Upper
151	100		
101	131.6	97.5	157.5
103	84.2	52.5	112.5

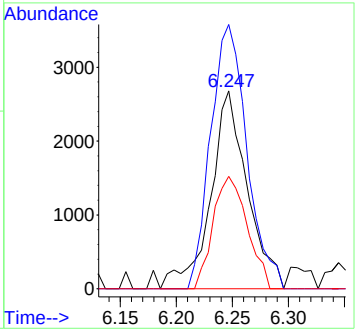


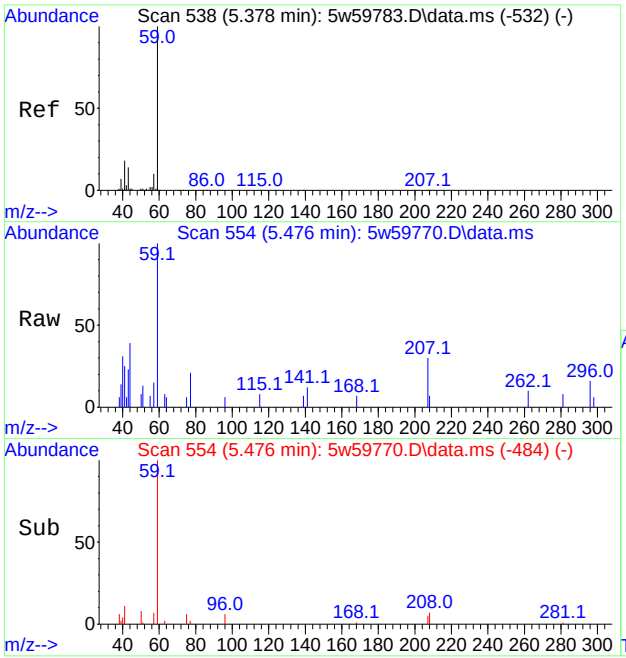


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6117

Ion	Ratio	Lower	Upper
96	100		
61	131.9	126.4	186.4
98	52.8	34.1	94.1

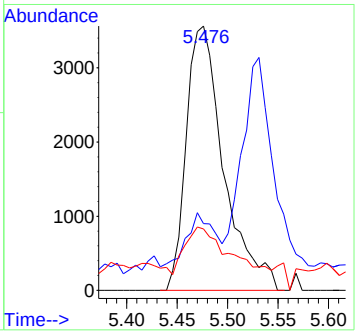


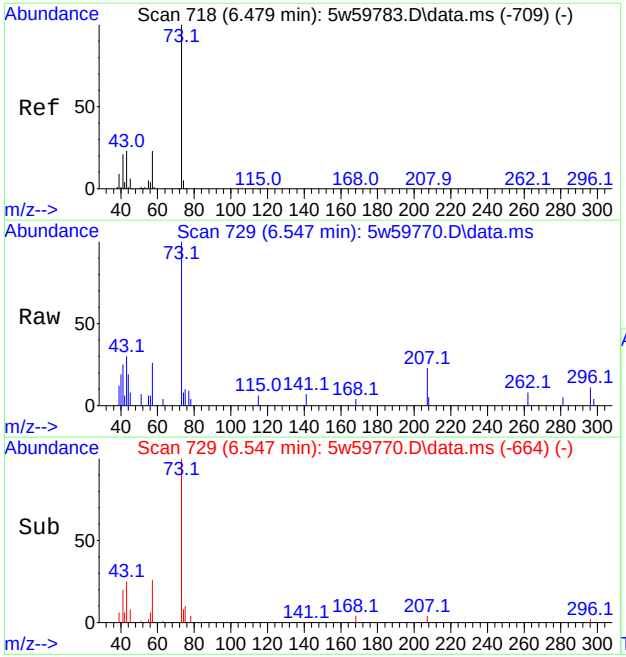


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.09 PPBV
RT: 5.476 min Scan# 554
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 9217

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	36.4	0.0	44.1

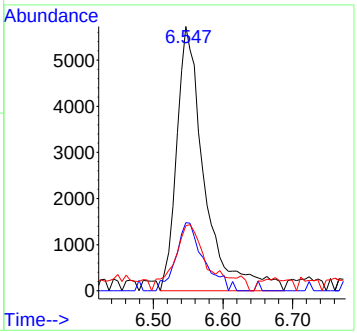


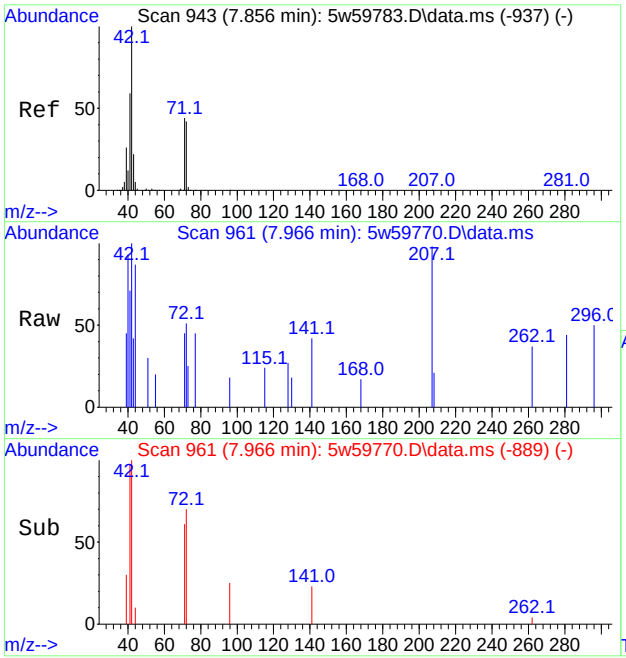


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.12 PPBV
RT: 6.547 min Scan# 729
Delta R.T. 0.068 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 73 Resp: 15796

Ion	Ratio	Lower	Upper
73	100		
57	25.8	0.0	53.1
41	30.7	0.0	50.6

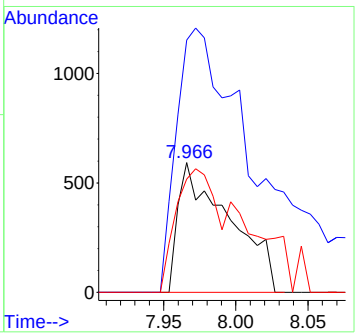


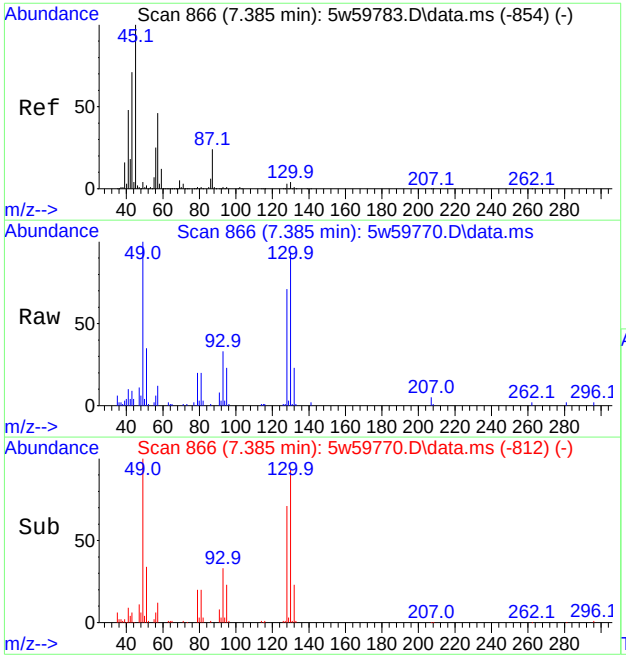


#37
TETRAHYDROFURAN
Concen: 0.08 PPBV
RT: 7.966 min Scan# 961
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 1469

Ion	Ratio	Lower	Upper
72	100		
42	342.0	202.4	262.4#
71	131.0	71.1	131.1

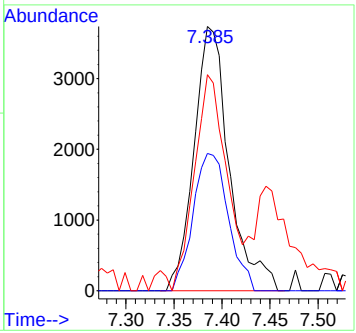


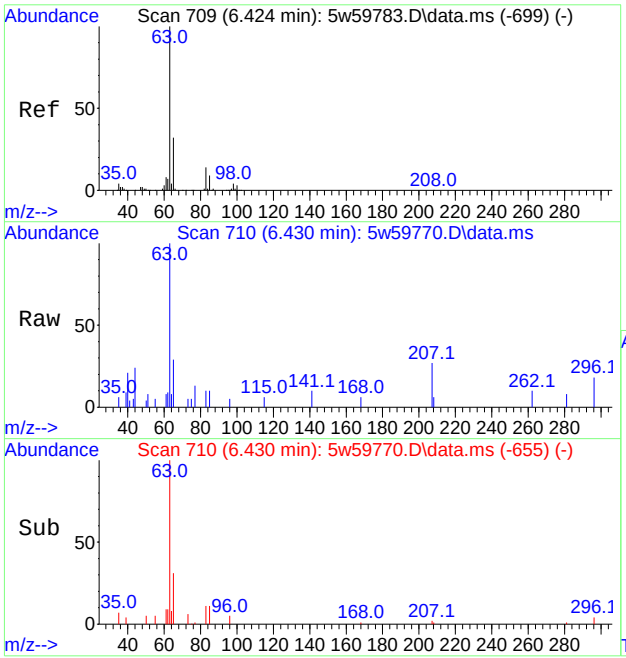


#38
HEXANE
Concen: 0.13 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9533

Ion	Ratio	Lower	Upper
57	100		
56	52.0	25.9	85.9
41	80.5	74.7	134.7

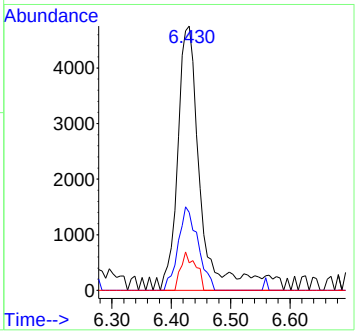


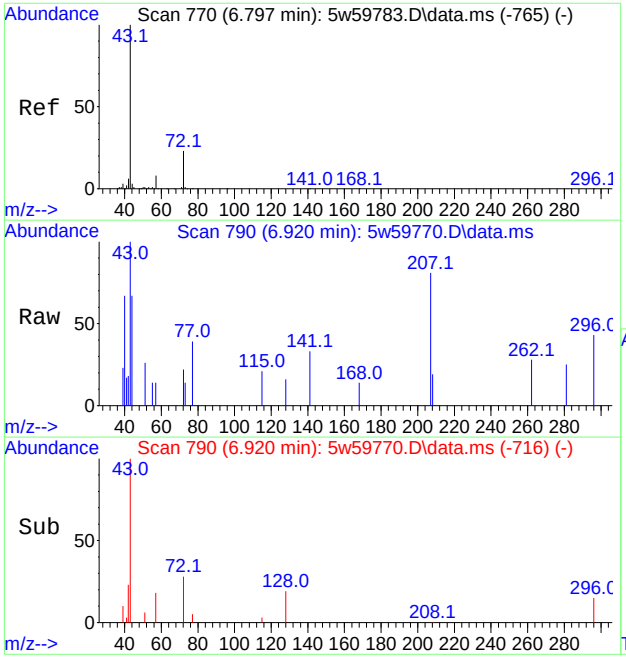


#40
1,1-DICHLOROETHANE
Concen: 0.14 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 12904

Ion	Ratio	Lower	Upper
63	100		
65	27.4	1.7	61.7
83	9.4	0.0	43.5

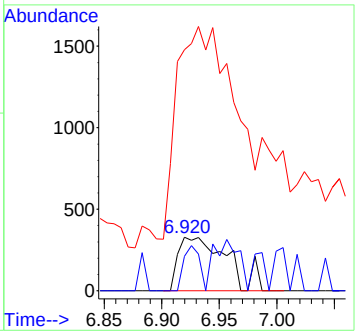


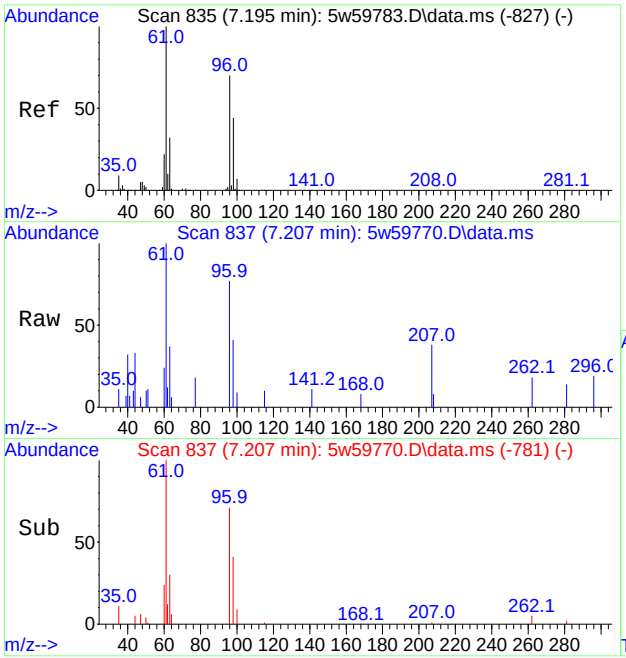


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV m
RT: 6.920 min Scan# 790
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 956

Ion	Ratio	Lower	Upper
72	100		
57	64.6	4.8	64.8
43	450.9	415.9	475.9

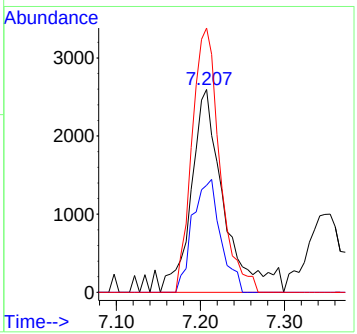


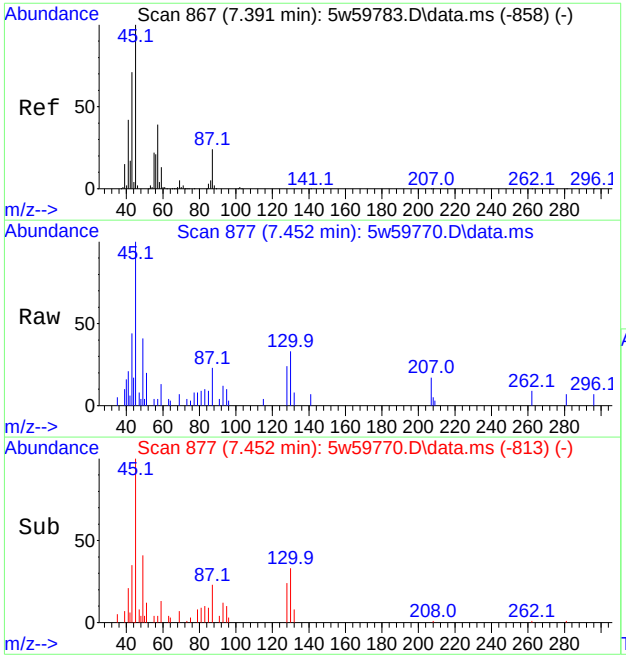


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.13 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6979

Ion	Ratio	Lower	Upper
96	100		
98	48.0	34.0	94.0
61	111.6	111.5	171.5

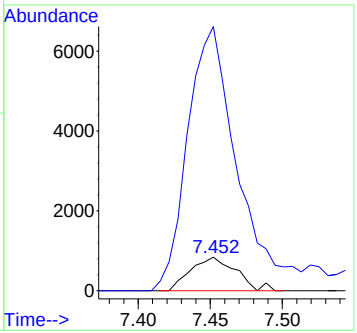


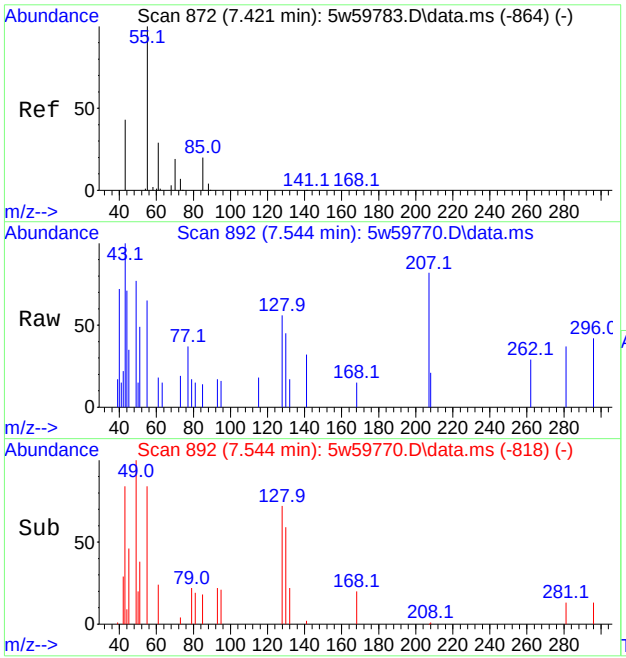


#43
DIISOPROPYL ETHER
Concen: 0.09 PPBV
RT: 7.452 min Scan# 877
Delta R.T. 0.061 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 1846

Ion	Ratio	Lower	Upper
59	100		
45	973.3	720.9	780.9#

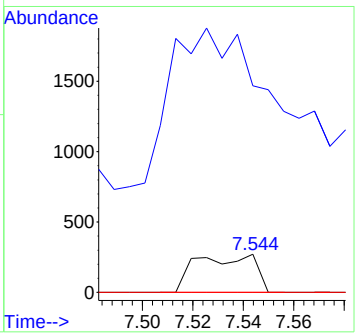


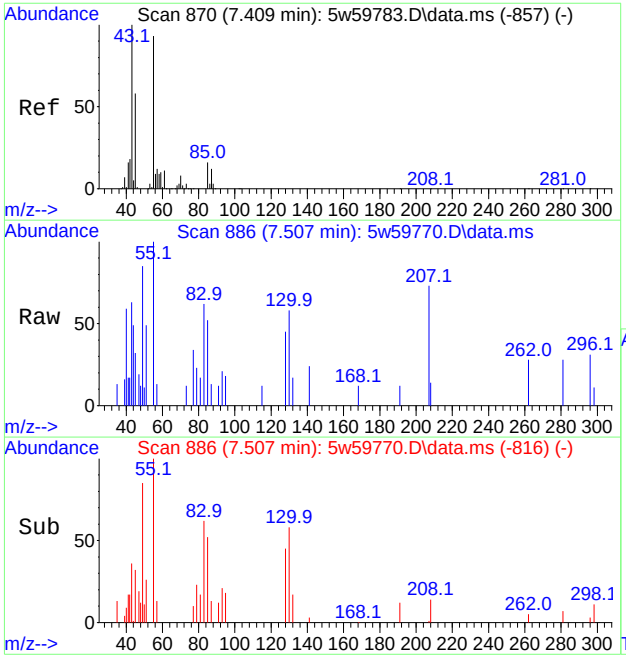


#44
ETHYL ACETATE
Concen: 0.03 PPBV m
RT: 7.544 min Scan# 892
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 61 Resp: 434

Ion	Ratio	Lower	Upper
61	100		
43	829.0	560.5	620.5#
88	0.0	4.5	64.5#

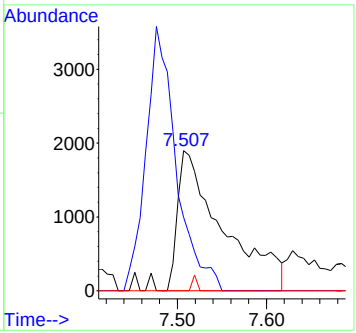


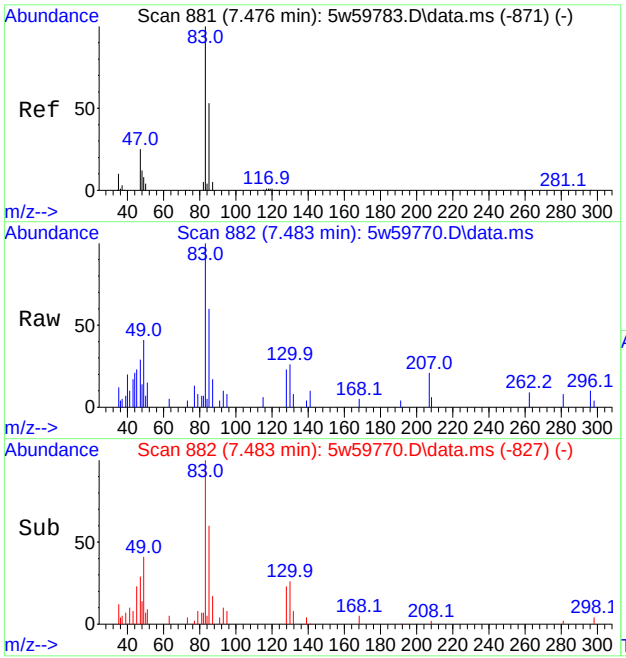


#45
METHYL ACRYLATE
Concen: 0.08 PPBV m
RT: 7.507 min Scan# 886
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 55 Resp: 6719

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

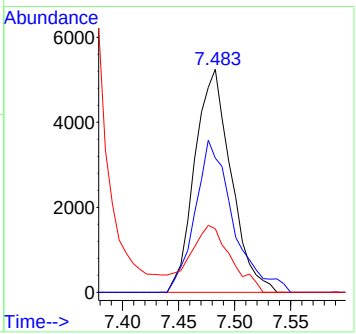


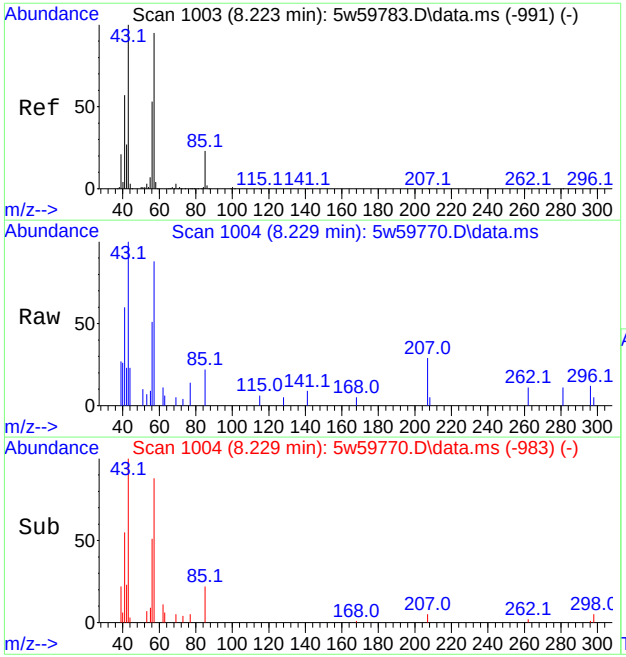


#46
CHLOROFORM
Concen: 0.11 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 11842

Ion	Ratio	Lower	Upper
83	100		
85	71.3	35.6	95.6
47	32.6	0.0	55.2

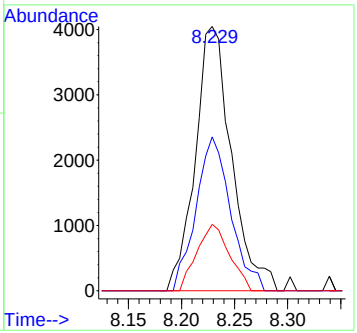


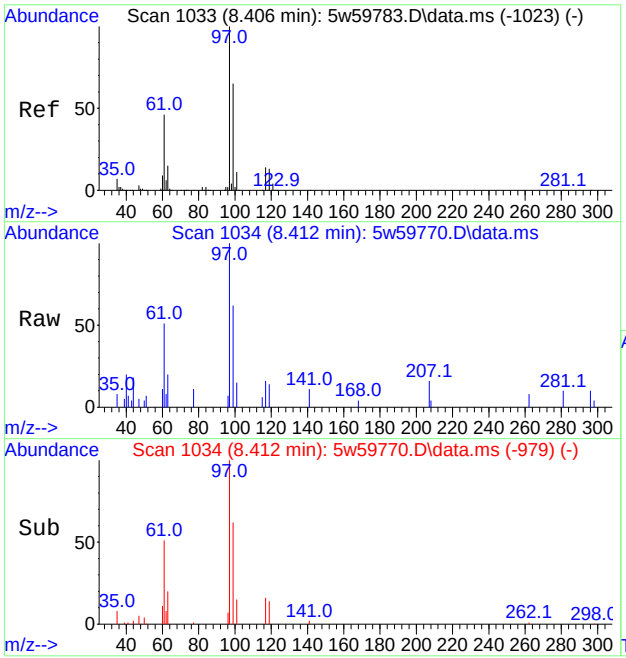


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9616

Ion	Ratio	Lower	Upper
57	100		
56	55.5	26.5	86.5
85	22.6	0.0	53.8

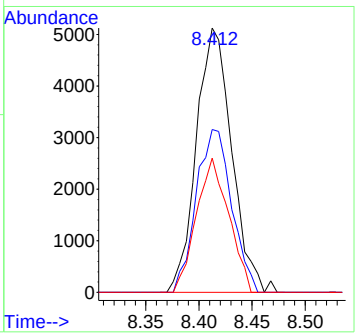


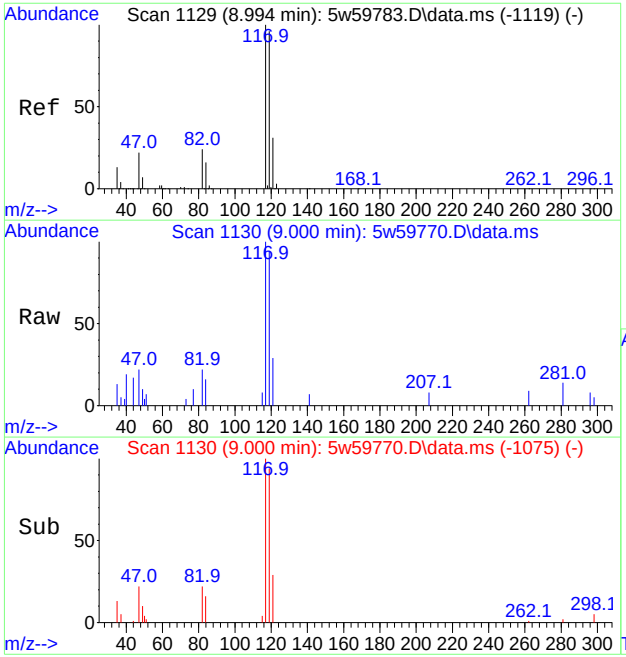


#48
1,1,1-TRICHLOROETHANE
Concen: 0.11 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 97 Resp: 11905

Ion	Ratio	Lower	Upper
97	100		
99	61.5	34.8	94.8
61	46.5	15.8	75.8

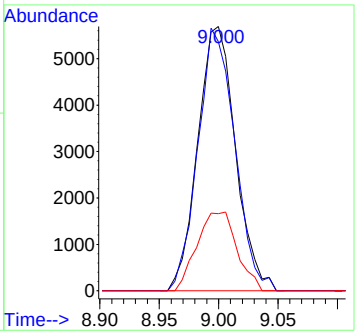


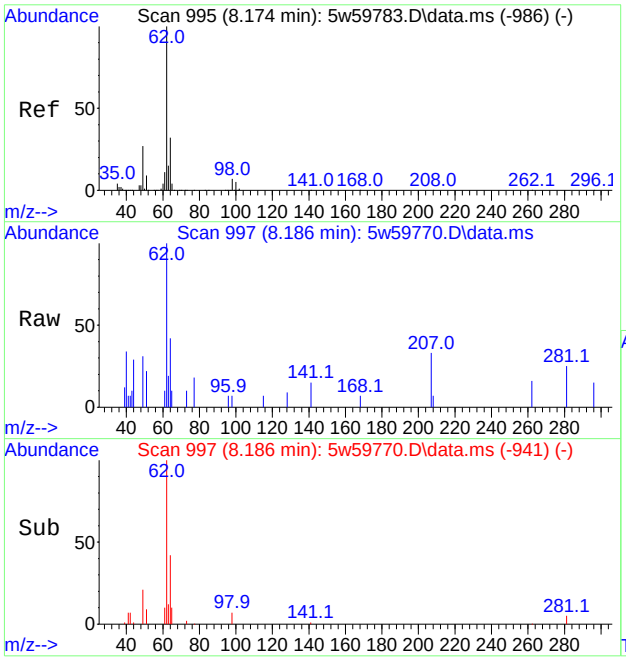


#49
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 12586

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.4	1.3	61.3

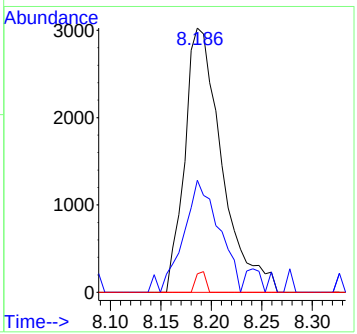


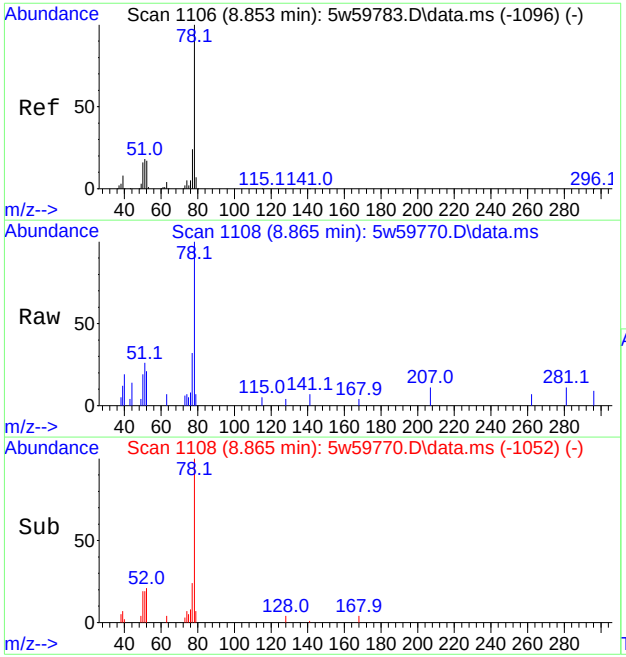


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 7761

Ion	Ratio	Lower	Upper
62	100		
64	40.9	2.3	62.3
98	2.1	0.0	36.9

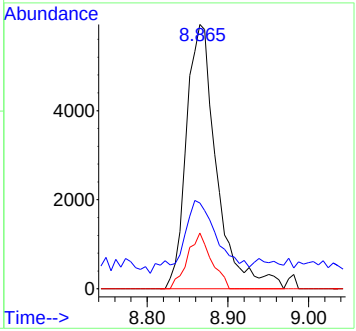


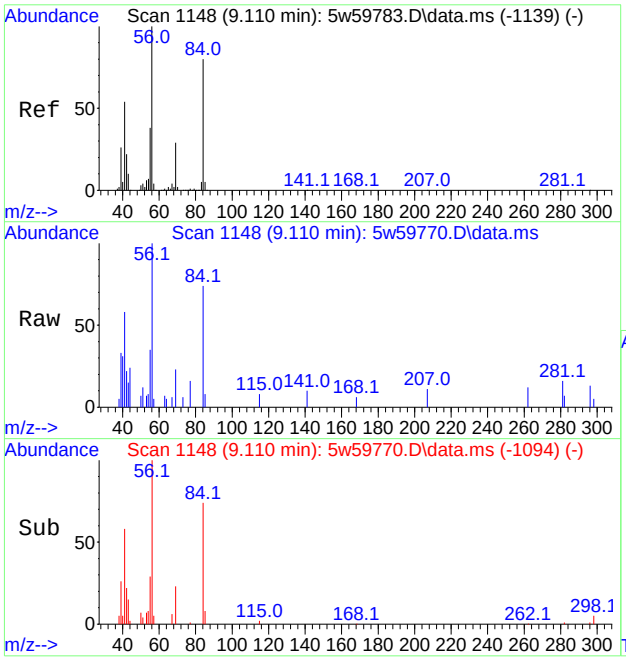


#52
BENZENE
Concen: 0.11 PPBV
RT: 8.865 min Scan# 1108
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 78 Resp: 15430

Ion	Ratio	Lower	Upper
78	100		
77	31.0	0.0	53.8
52	16.7	0.0	46.9

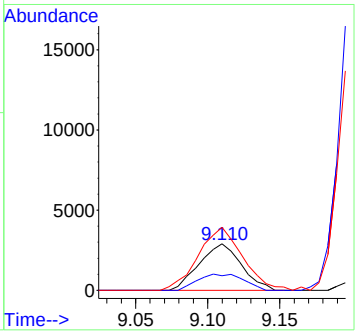


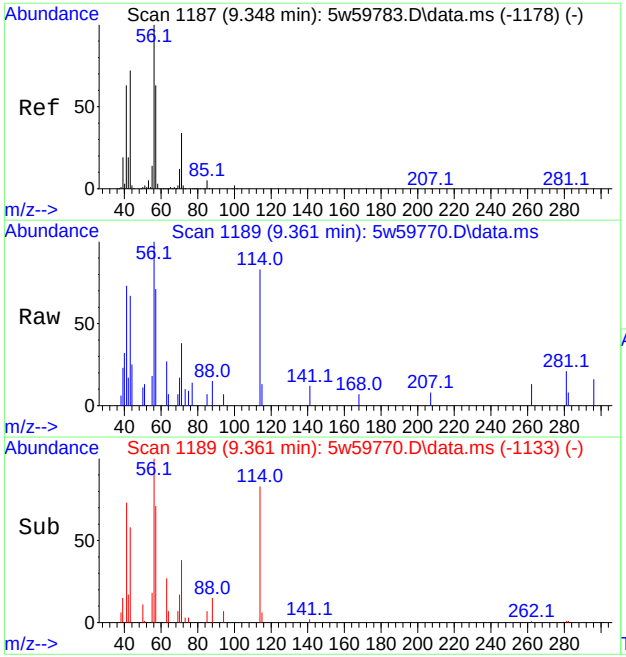


#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 5905

Ion	Ratio	Lower	Upper
84	100		
69	38.2	6.9	66.9
56	142.3	98.2	158.2

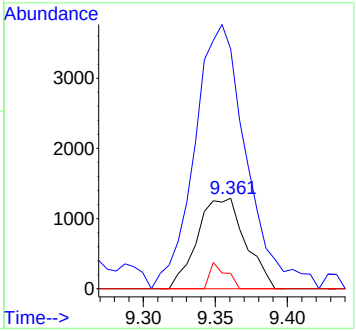


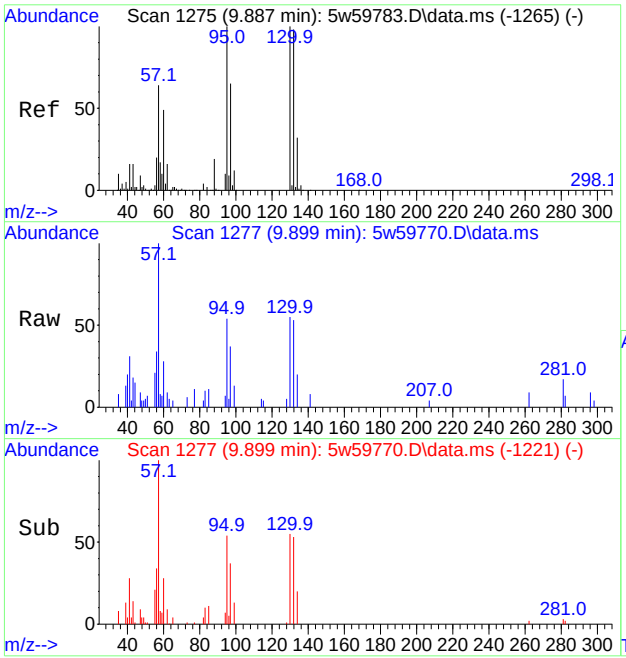


#54
2,3-DIMETHYLPENTANE
Concen: 0.10 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 71 Resp: 2989

Ion	Ratio	Lower	Upper
71	100		
56	315.8	264.6	324.6
85	10.1	0.0	45.3

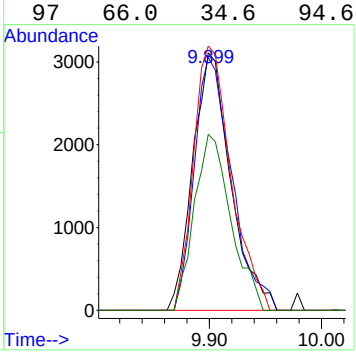


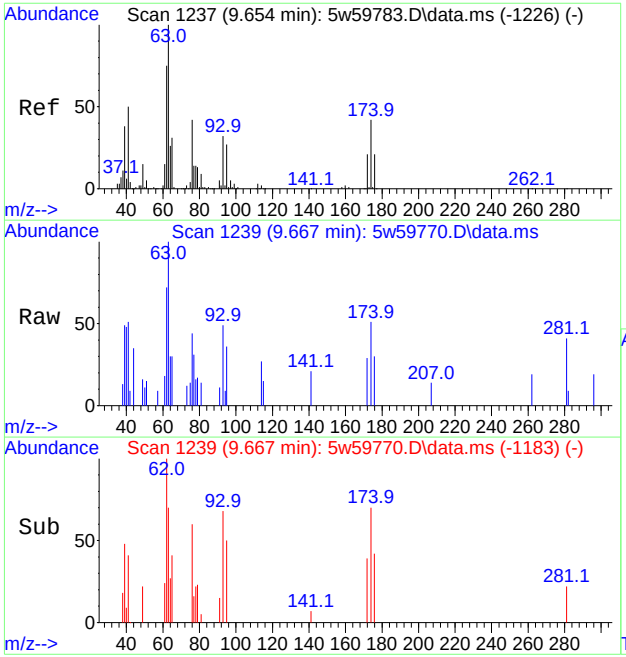


#55
TRICHLOROETHYLENE
Concen: 0.10 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 95 Resp: 7303

Ion	Ratio	Lower	Upper
95	100		
132	97.0	69.0	129.0
130	101.9	70.6	130.6
97	66.0	34.6	94.6

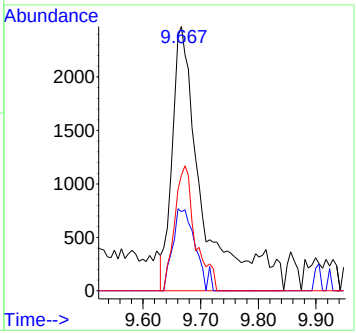


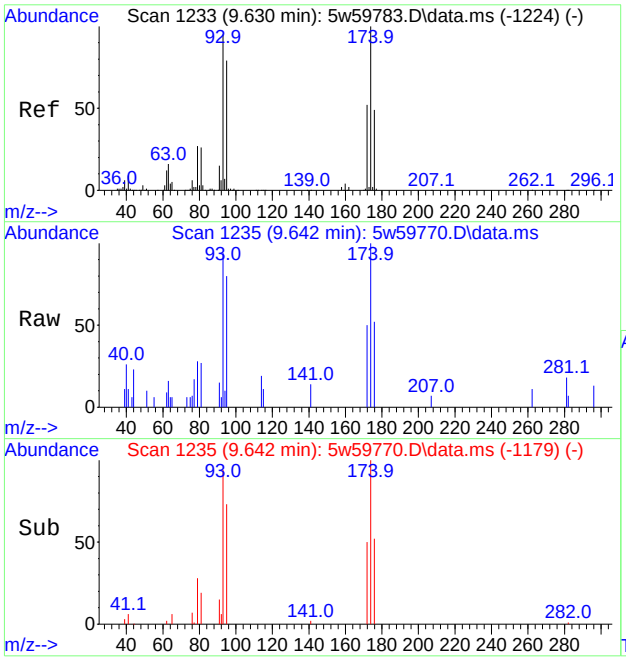


#56
1,2-DICHLOROPROPANE
Concen: 0.15 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 9099

Ion	Ratio	Lower	Upper
63	100		
65	22.9	0.5	60.5
76	31.9	11.5	71.5

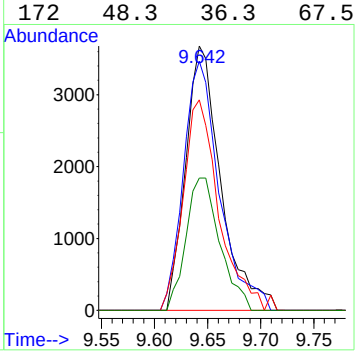


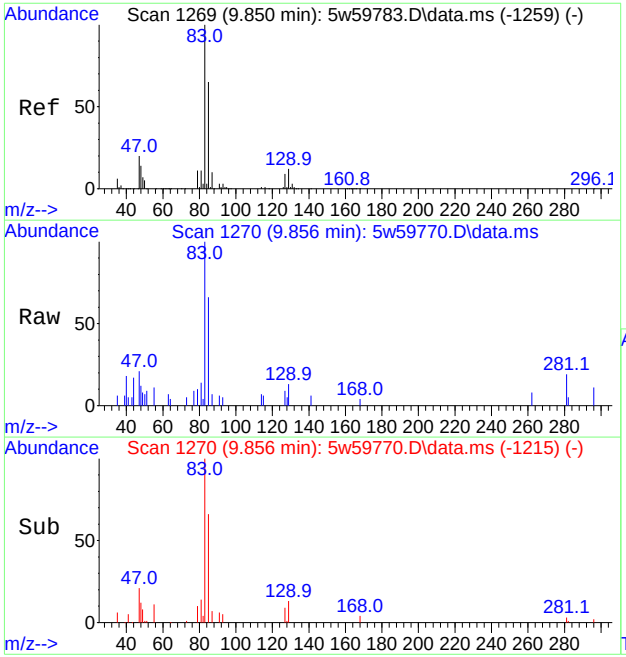


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:174 Resp: 8479

Ion	Ratio	Lower	Upper
174	100		
93	96.7	65.0	120.6
95	81.4	54.5	101.1
172	48.3	36.3	67.5

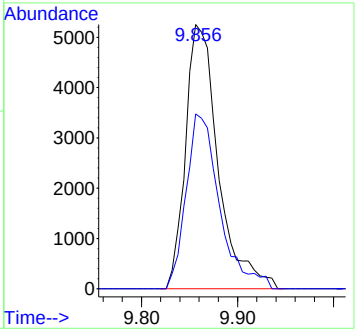


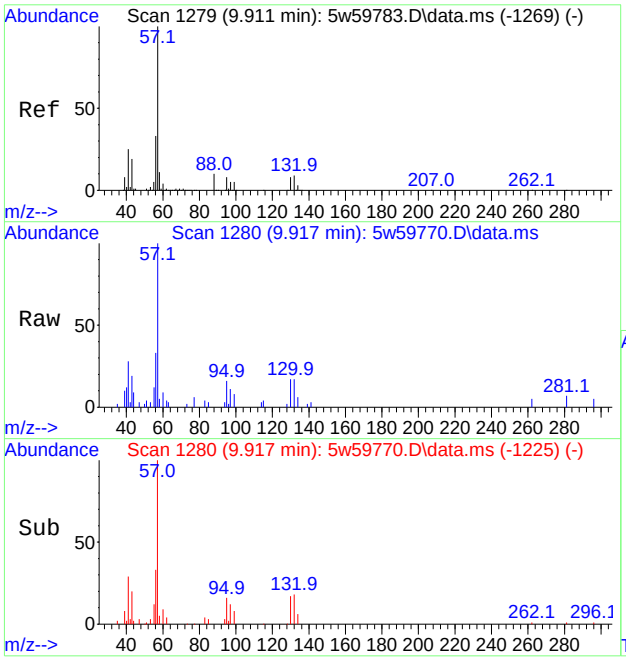


#59
BROMODICHLOROMETHANE
Concen: 0.10 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 12436

Ion	Ratio	Lower	Upper
83	100		
85	67.7	33.4	93.4

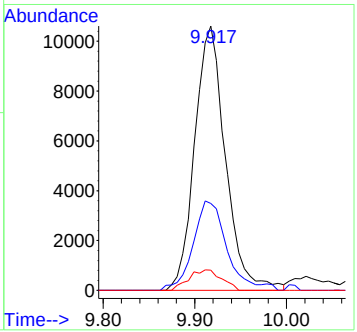


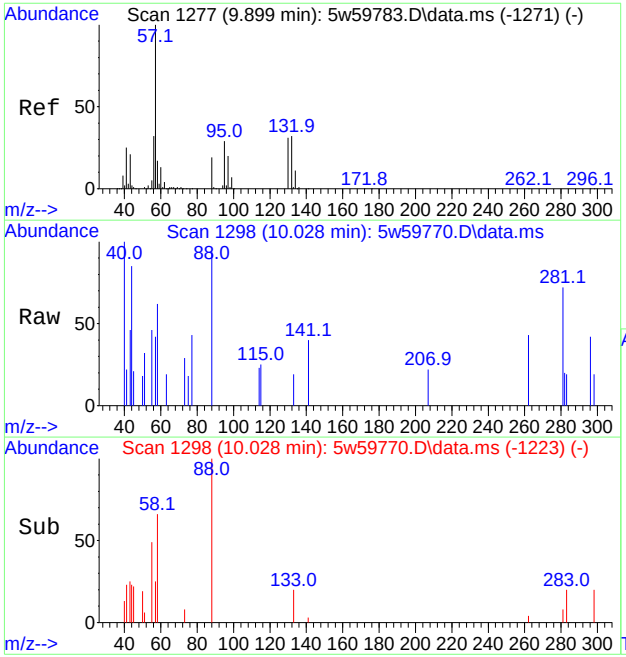


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 24769

Ion	Ratio	Lower	Upper
57	100		
56	37.1	2.5	62.5
99	8.2	0.0	37.3

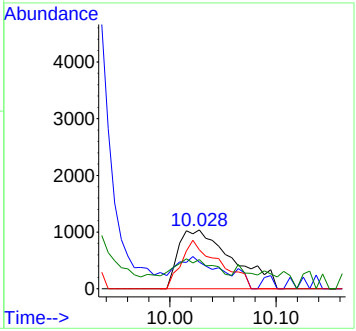


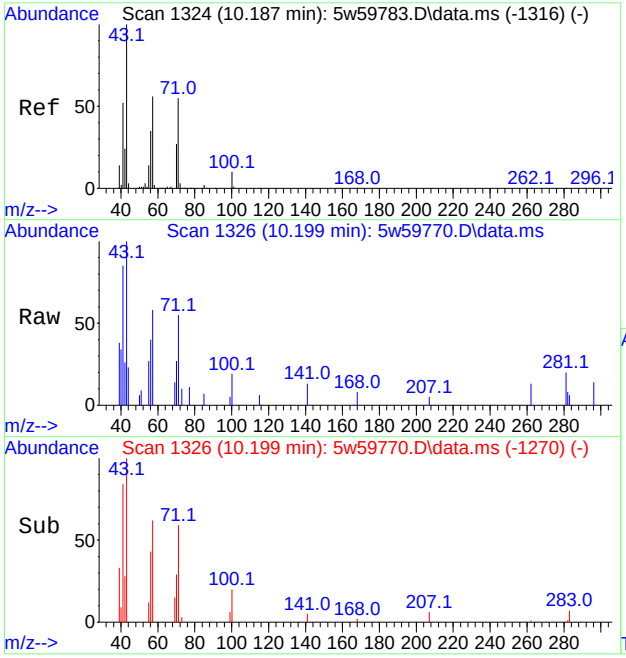


#61
1,4-DIOXANE
Concen: 0.11 PPBV
RT: 10.028 min Scan# 1298
Delta R.T. 0.129 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 88 Resp: 3670

Ion	Ratio	Lower	Upper
88	100		
57	45.3	494.2	554.2#
58	66.2	58.9	118.9
43	49.4	78.3	138.3#

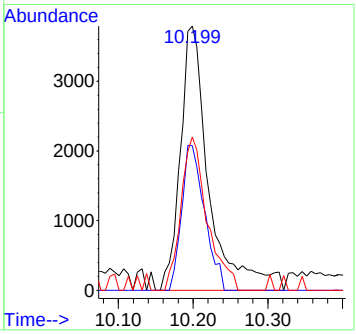


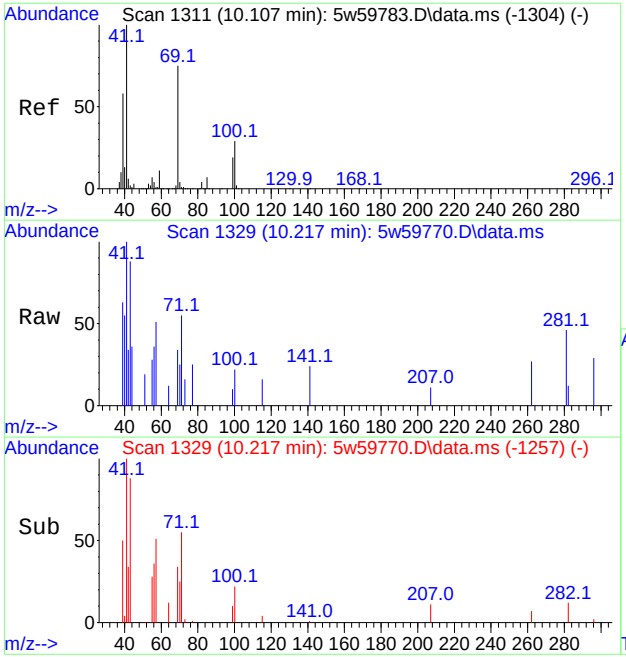


#62
HEPTANE
Concen: 0.13 PPBV
RT: 10.199 min Scan# 1326
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 10112

Ion	Ratio	Lower	Upper
43	100		
71	43.8	24.5	84.5
57	52.9	26.2	86.2

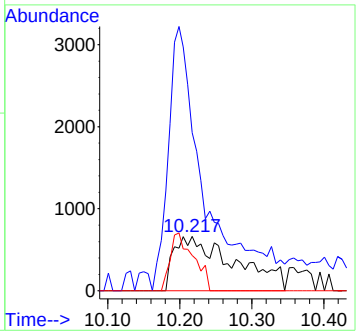


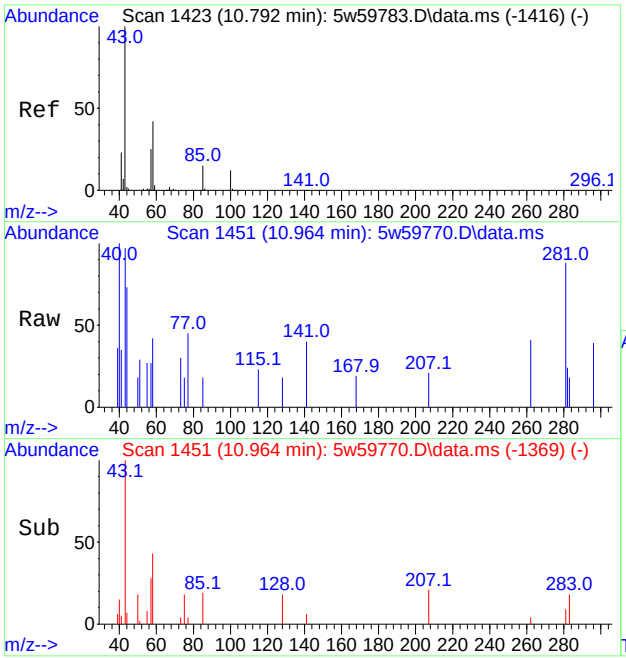


#63
METHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 10.217 min Scan# 1329
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 3857

Ion	Ratio	Lower	Upper
69	100		
41	336.7	95.3	155.3#
100	41.2	6.3	66.3

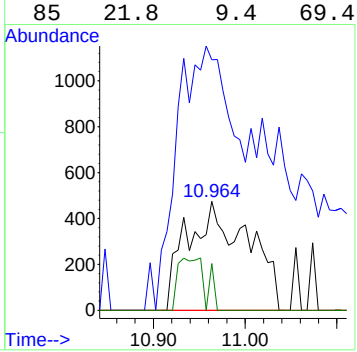


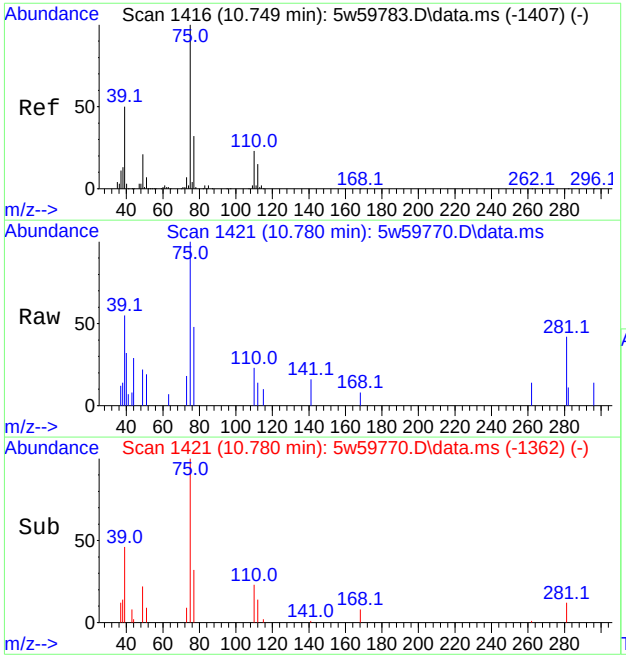


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 10.964 min Scan# 1451
Delta R.T. 0.172 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 2182

Ion	Ratio	Lower	Upper
58	100		
43	381.4	209.2	269.2#
100	0.0	0.0	58.8
85	21.8	9.4	69.4

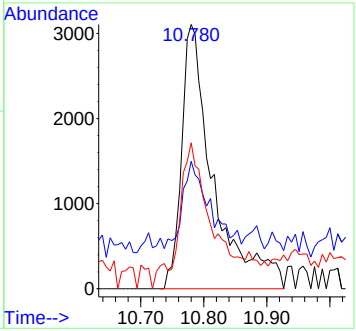


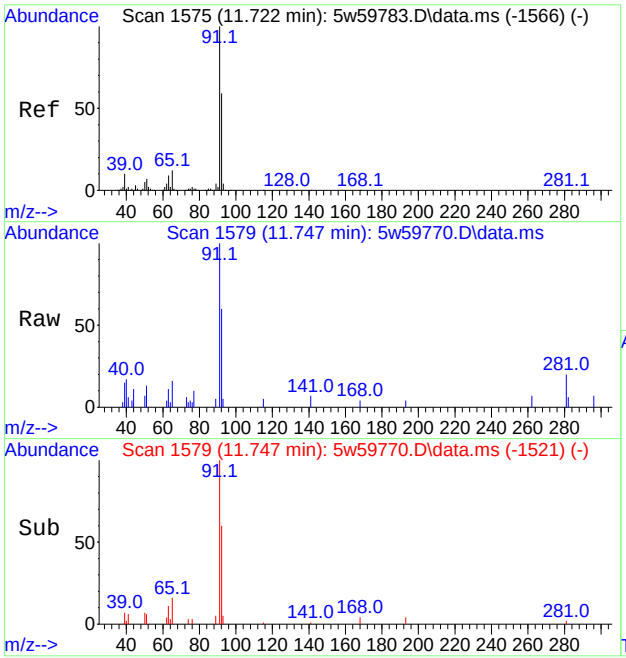


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 10.780 min Scan# 1421
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 10824

Ion	Ratio	Lower	Upper
75	100		
77	30.2	2.2	62.2
39	53.8	34.3	94.3

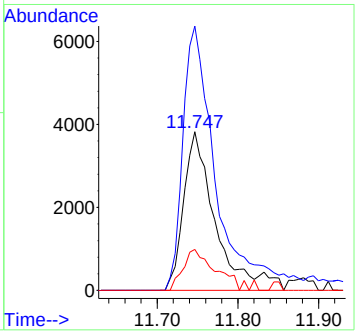


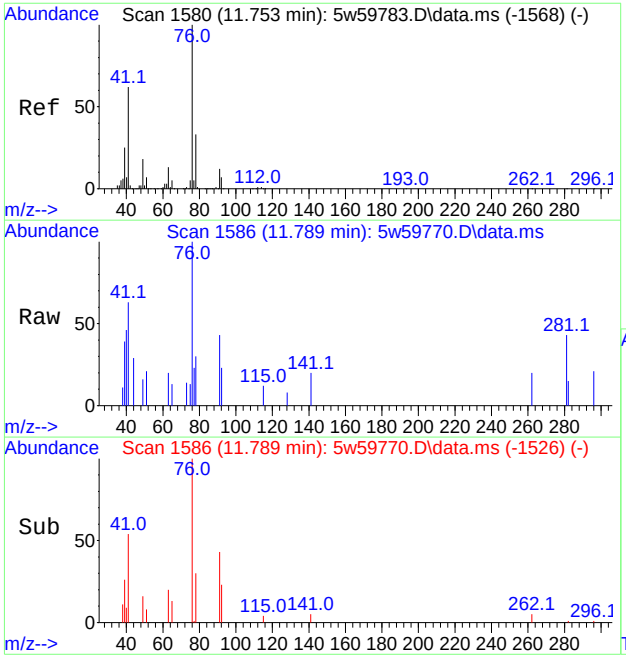


#66
TOLUENE
Concen: 0.10 PPBV
RT: 11.747 min Scan# 1579
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 92 Resp: 10446

Ion	Ratio	Lower	Upper
92	100		
91	184.4	140.1	200.1
65	27.5	0.0	53.1

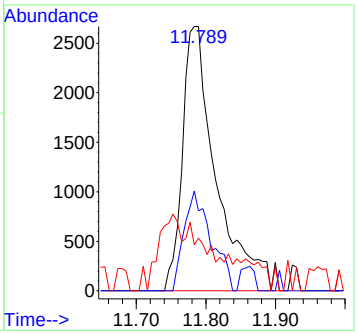


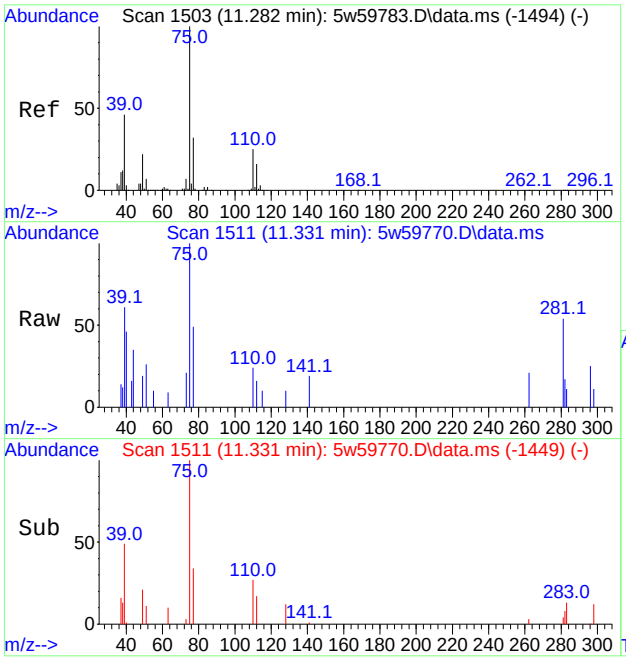


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 11.789 min Scan# 1586
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 9064

Ion	Ratio	Lower	Upper
76	100		
78	30.1	23.2	43.0
63	0.0	7.1	13.1#

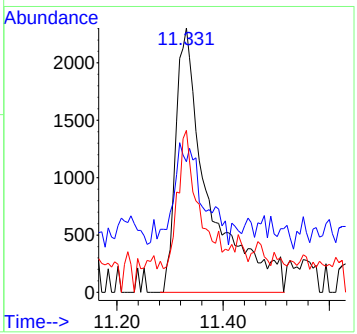


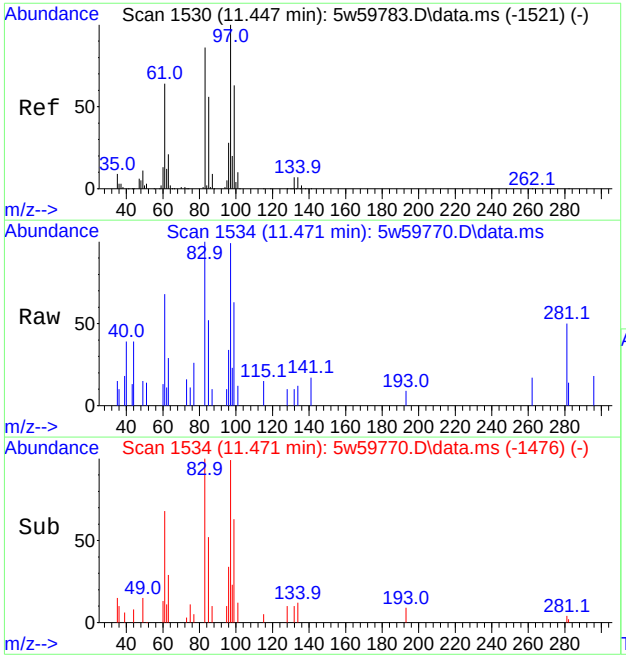


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 11.331 min Scan# 1511
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 9955

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	58.2	16.1	76.1

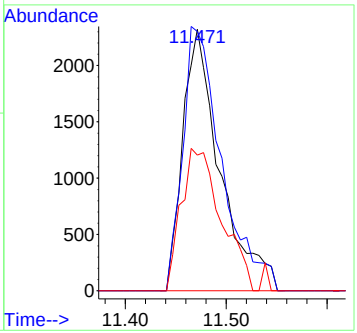


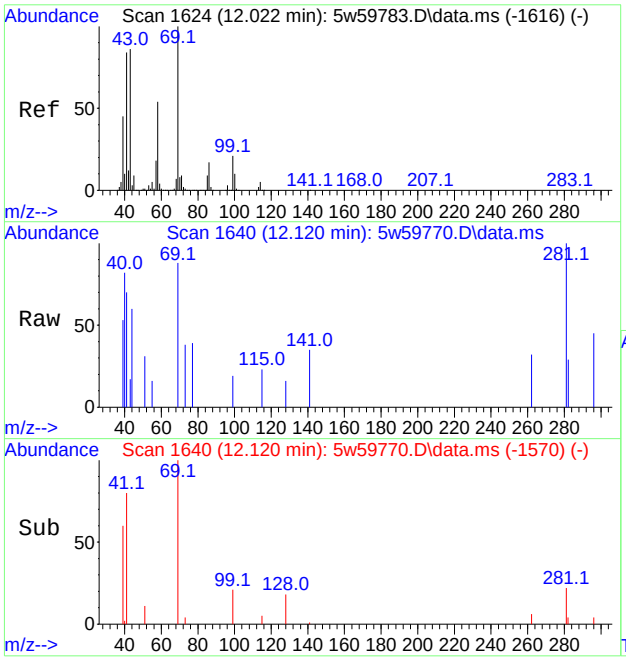


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 11.471 min Scan# 1534
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 5972

Ion	Ratio	Lower	Upper
83	100		
97	105.4	86.3	146.3
85	58.5	35.3	95.3

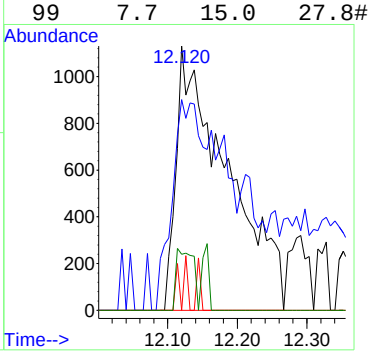


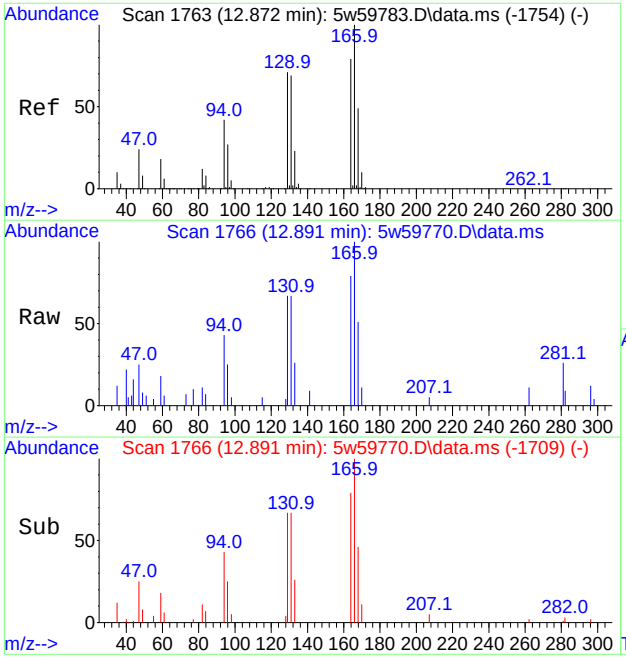


#72
ETHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 12.120 min Scan# 1640
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 5758

Ion	Ratio	Lower	Upper
69	100		
41	125.5	64.0	119.0#
86	0.0	12.0	22.4#
99	7.7	15.0	27.8#

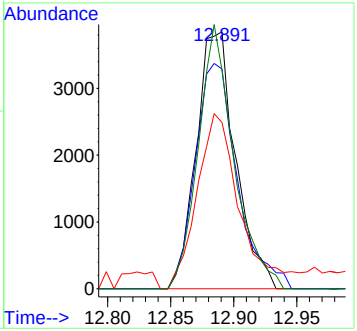


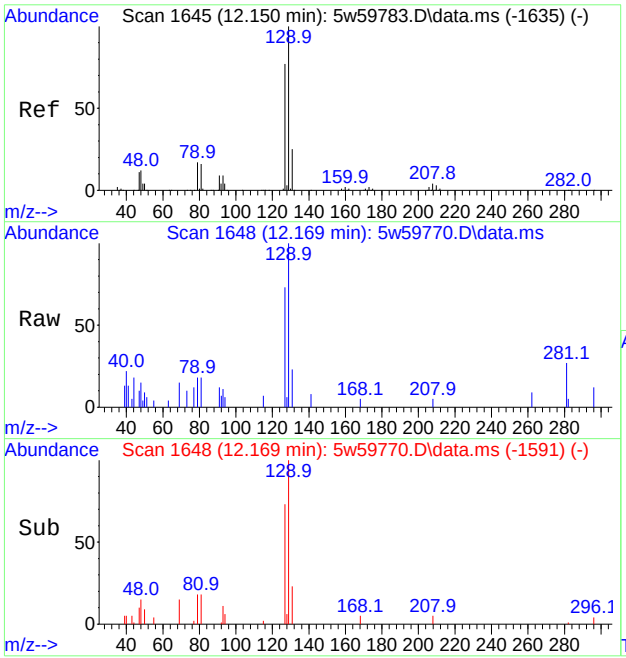


#73
TETRACHLOROETHYLENE
Concen: 0.12 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:164 Resp: 8344

Ion	Ratio	Lower	Upper
164	100		
129	93.5	59.7	119.7
168	81.8	32.2	92.2
131	93.3	57.8	117.8

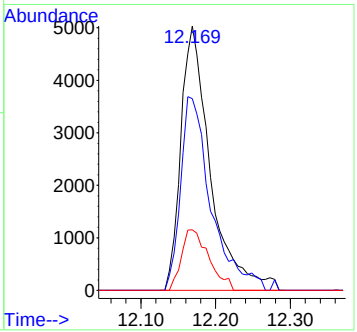


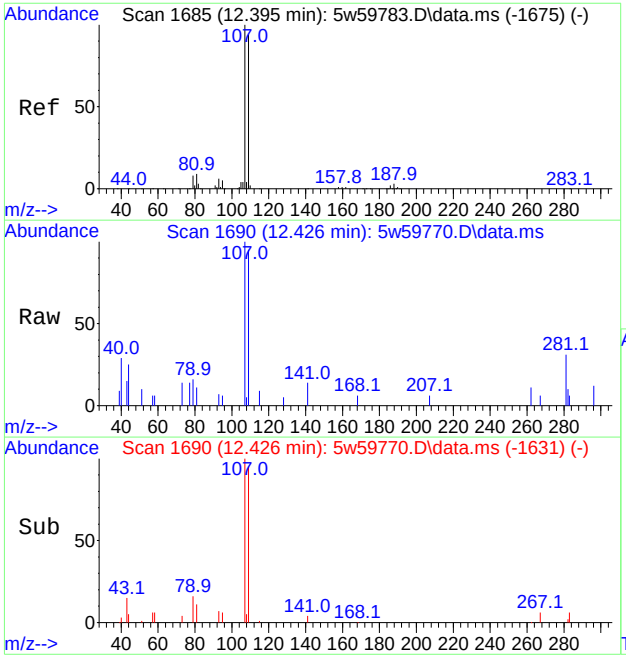


#74
DIBROMOCHLOROMETHANE
Concen: 0.11 PPBV
RT: 12.169 min Scan# 1648
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:129 Resp: 13809

Ion	Ratio	Lower	Upper
129	100		
127	75.3	47.1	107.1
131	21.3	0.0	54.5

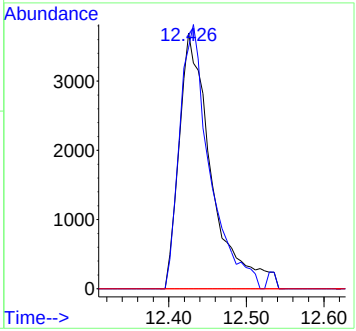


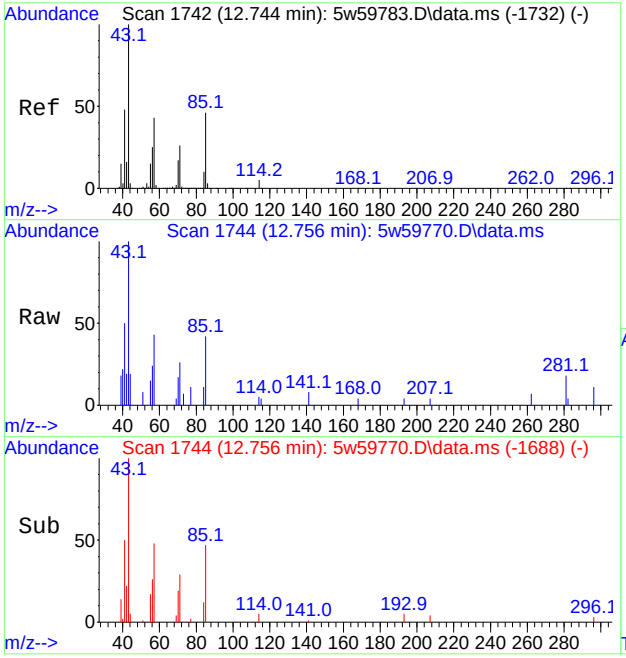


#75
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 12.426 min Scan# 1690
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:107 Resp: 10727

Ion	Ratio	Lower	Upper
107	100		
109	96.3	64.8	124.8
188	0.0	0.0	32.8

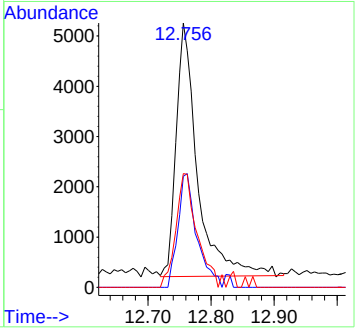


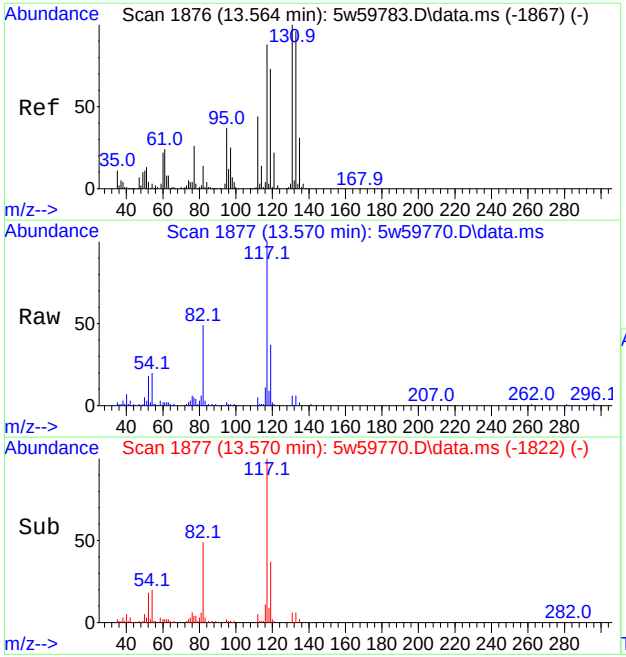


#76
OCTANE
Concen: 0.13 PPBV
RT: 12.756 min Scan# 1744
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 11856

Ion	Ratio	Lower	Upper
43	100		
85	39.5	14.6	74.6
57	45.0	13.7	73.7

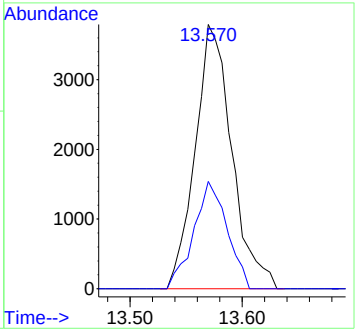


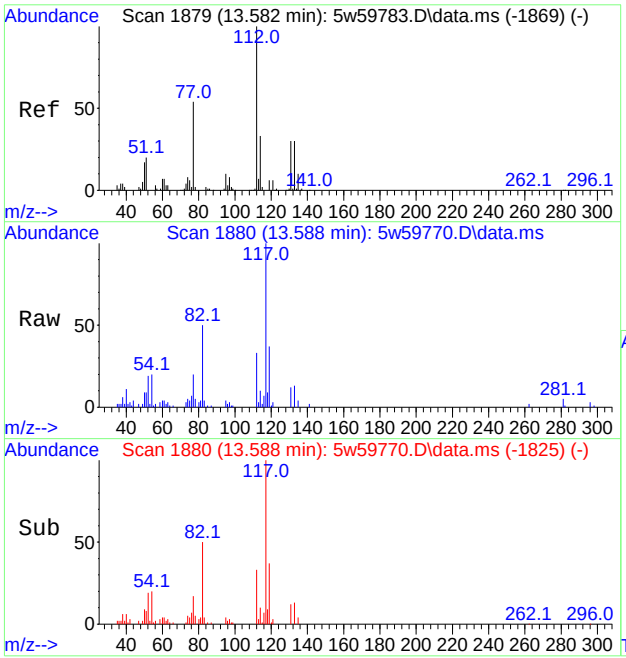


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.11 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:131 Resp: 8635

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

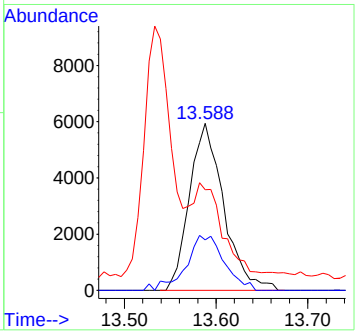


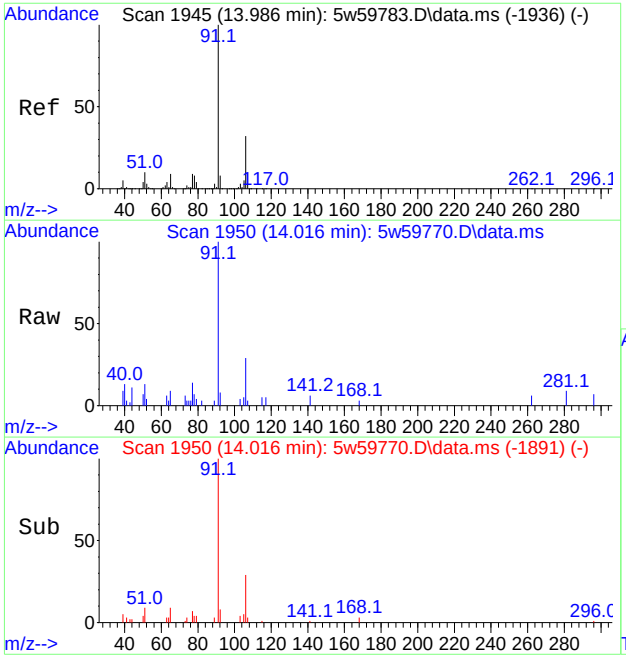


#78
CHLOROBENZENE
Concen: 0.12 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:112 Resp: 15456

Ion	Ratio	Lower	Upper
112	100		
114	36.4	2.6	62.6
77	0.0	25.4	85.4#

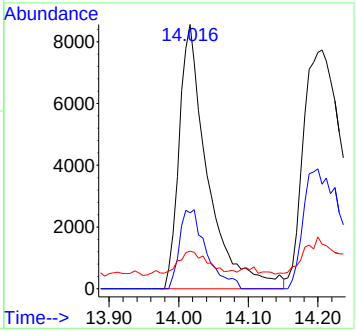


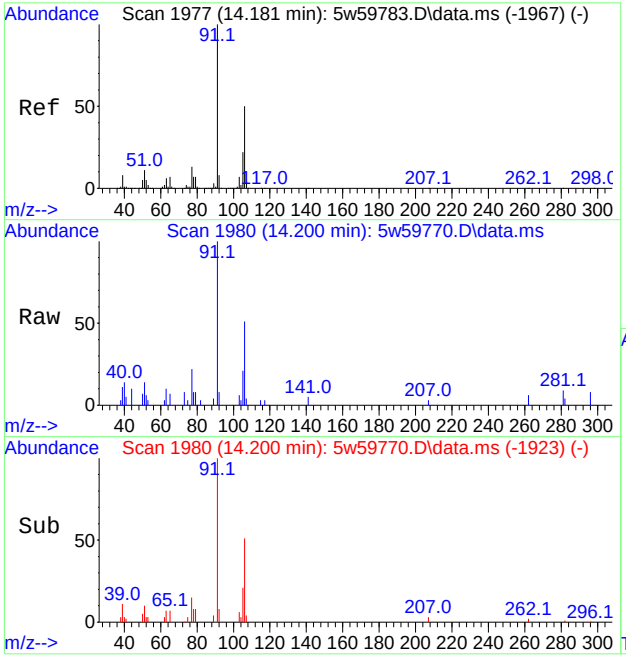


#79
ETHYLBENZENE
Concen: 0.12 PPBV
RT: 14.016 min Scan# 1950
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 24398

Ion	Ratio	Lower	Upper
91	100		
106	28.2	1.3	61.3
77	8.1	0.0	38.6

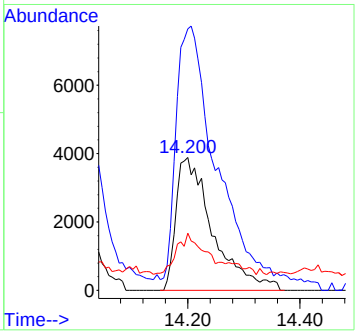


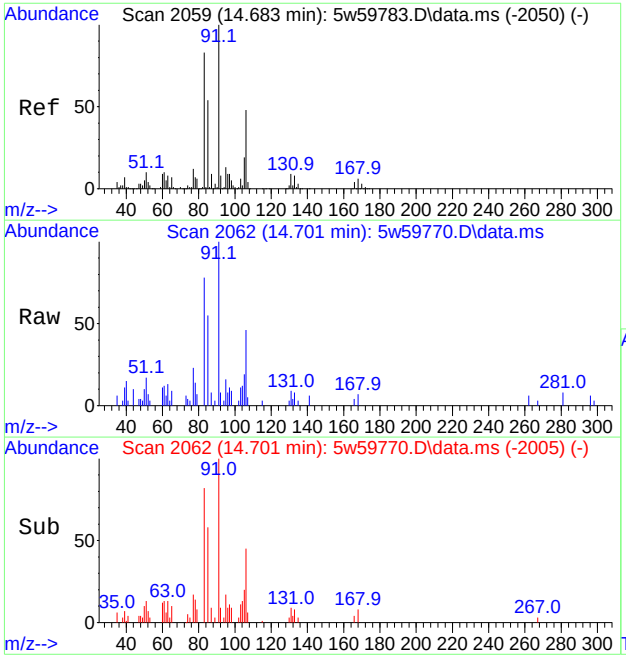


#80
m,p-XYLENE
Concen: 0.22 PPBV
RT: 14.200 min Scan# 1980
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 17695

Ion	Ratio	Lower	Upper
106	100		
91	196.6	171.0	231.0
77	43.1	0.0	56.7

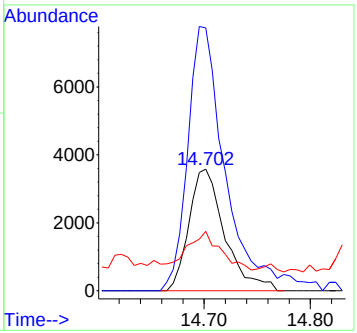


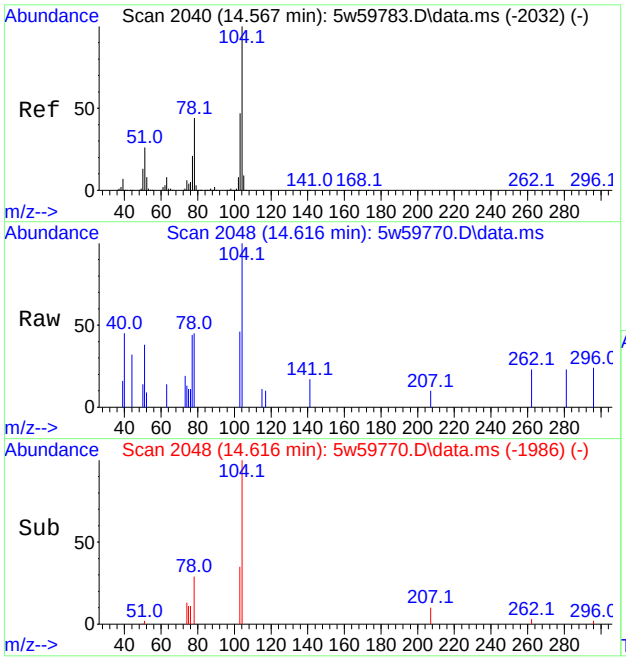


#81
o-XYLENE
Concen: 0.11 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 8363

Ion	Ratio	Lower	Upper
106	100		
91	232.2	181.6	241.6
77	28.4	0.0	56.6

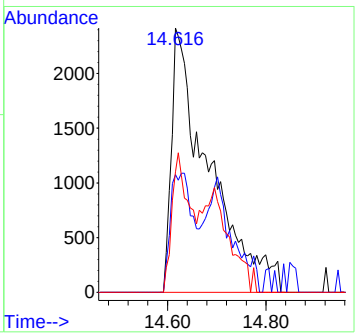


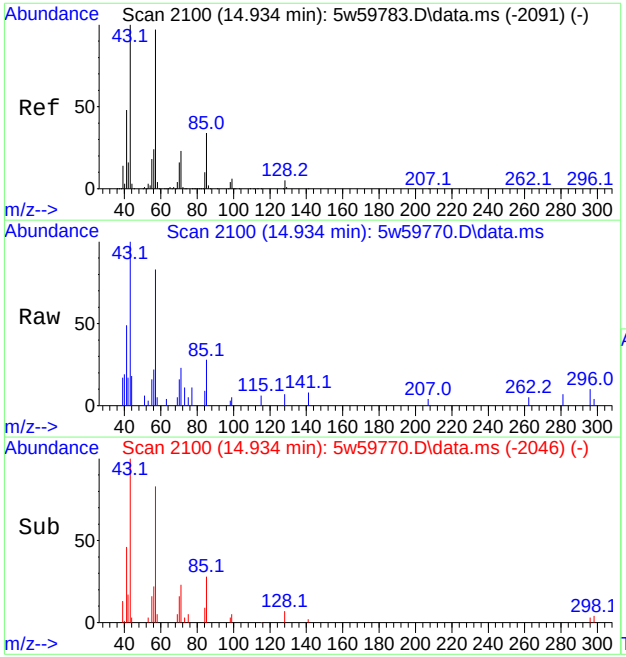


#82
STYRENE
Concen: 0.11 PPBV
RT: 14.616 min Scan# 2048
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:104 Resp: 12755

Ion	Ratio	Lower	Upper
104	100		
78	58.0	13.3	73.3
103	54.2	17.2	77.2

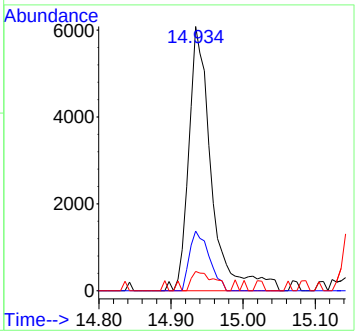


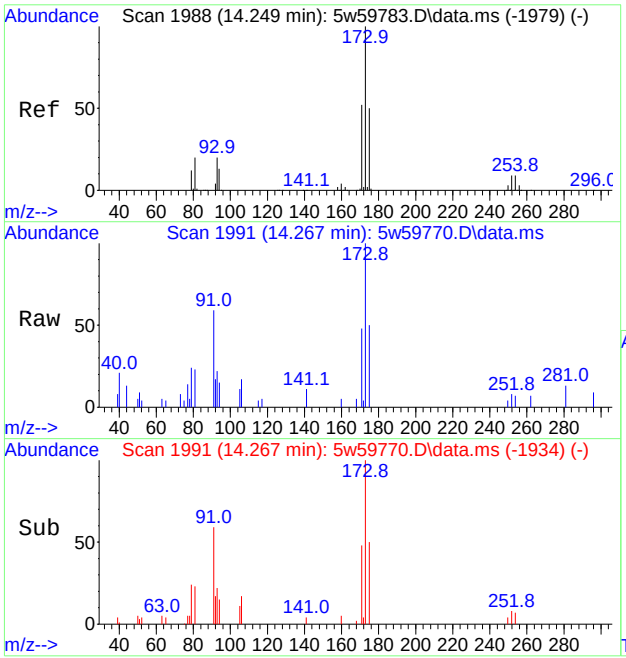


#83
NONANE
Concen: 0.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 13253

Ion	Ratio	Lower	Upper
43	100		
71	19.7	0.0	52.7
128	7.1	0.0	34.7

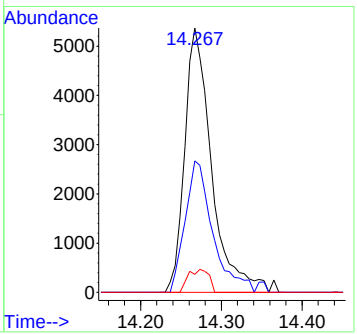


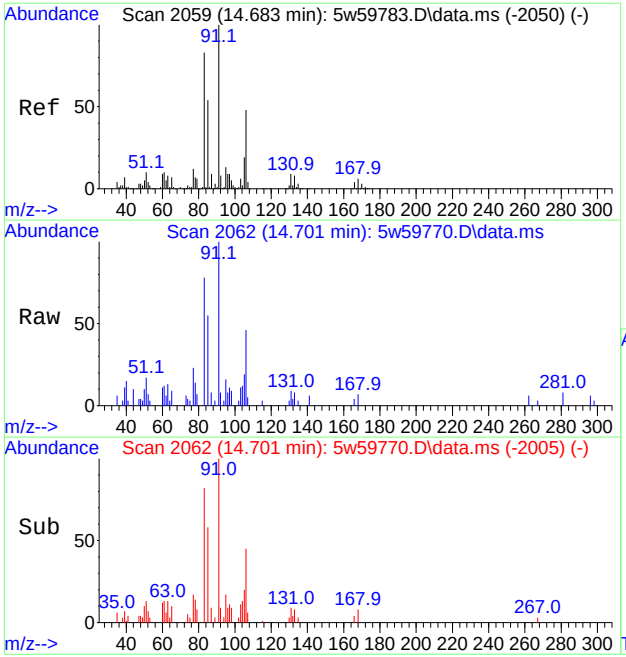


#84
BROMOFORM
Concen: 0.10 PPBV
RT: 14.267 min Scan# 1991
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:173 Resp: 12500

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	6.7	0.0	39.0

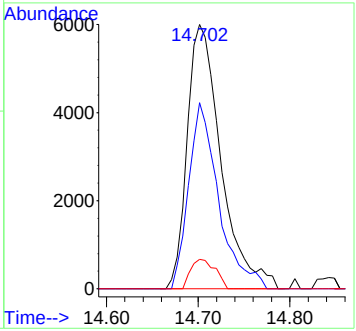


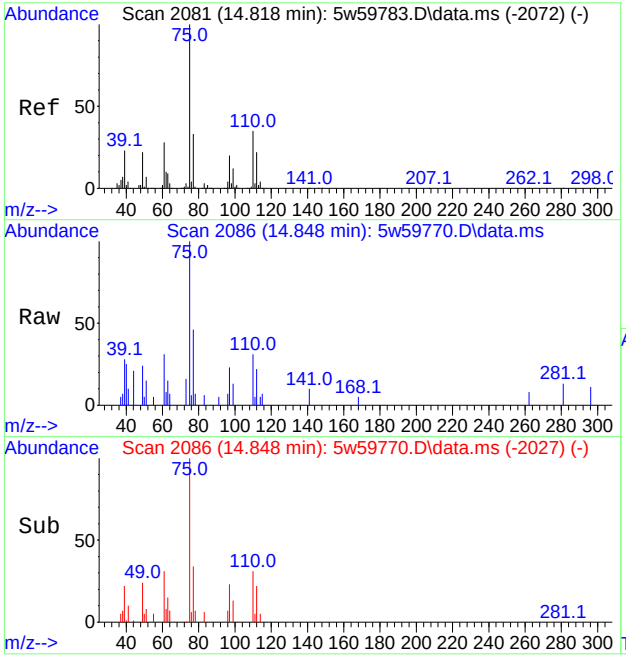


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.12 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 15380

Ion	Ratio	Lower	Upper
83	100		
85	62.5	35.2	95.2
131	8.1	0.0	40.3

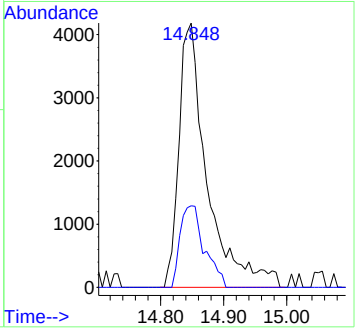


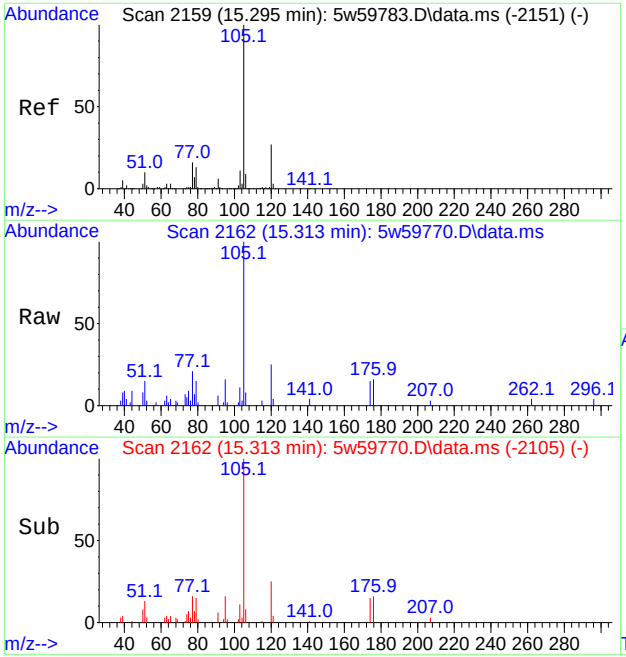


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.13 PPBV
RT: 14.848 min Scan# 2086
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 13012

Ion	Ratio	Lower	Upper
75	100		
110	26.6	4.4	64.4

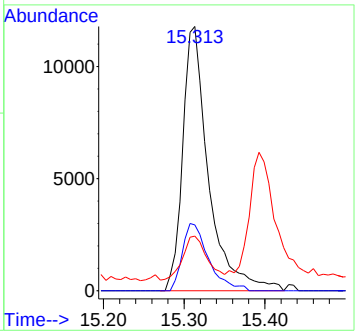


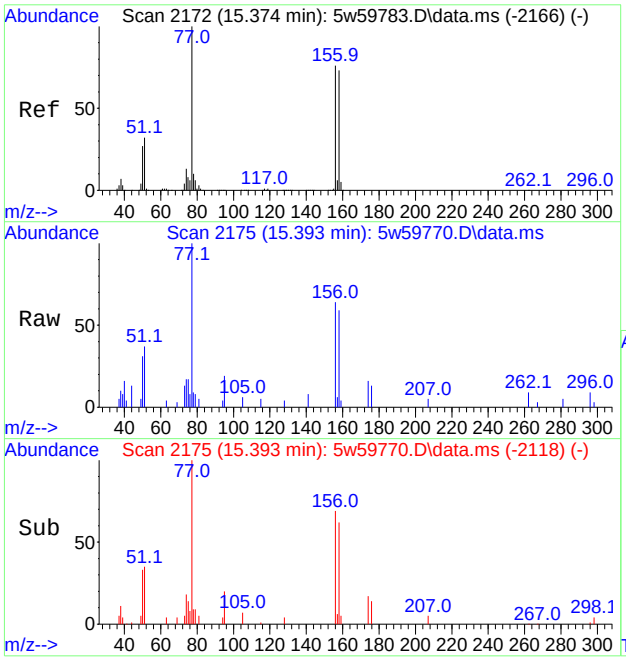


#88
ISOPROPYLBENZENE
Concen: 0.12 PPBV
RT: 15.313 min Scan# 2162
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 26261

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	17.6	0.0	45.6

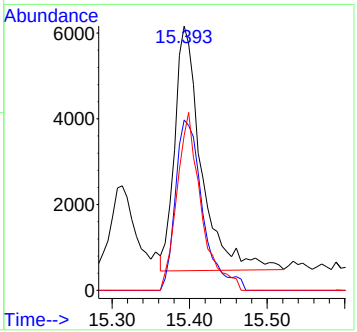


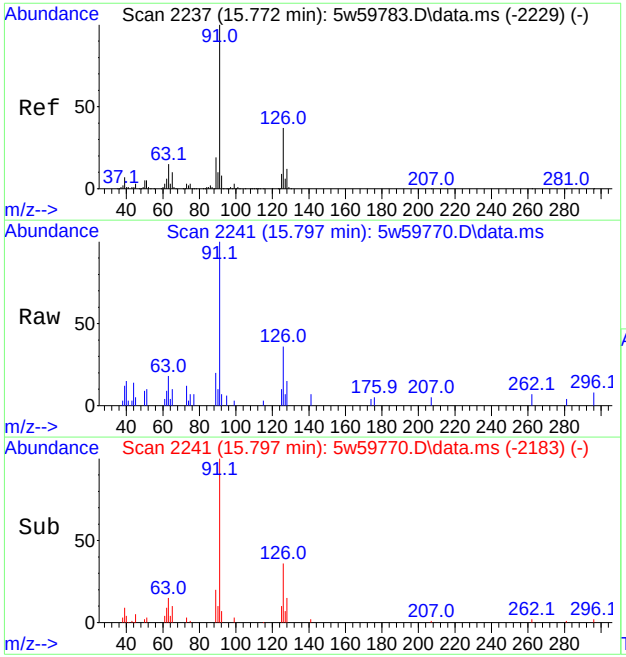


#89
BROMOBENZENE
Concen: 0.12 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 77 Resp: 13681

Ion	Ratio	Lower	Upper
77	100		
156	71.4	54.9	101.9
158	66.2	53.5	99.3

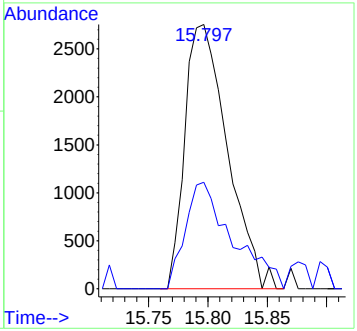


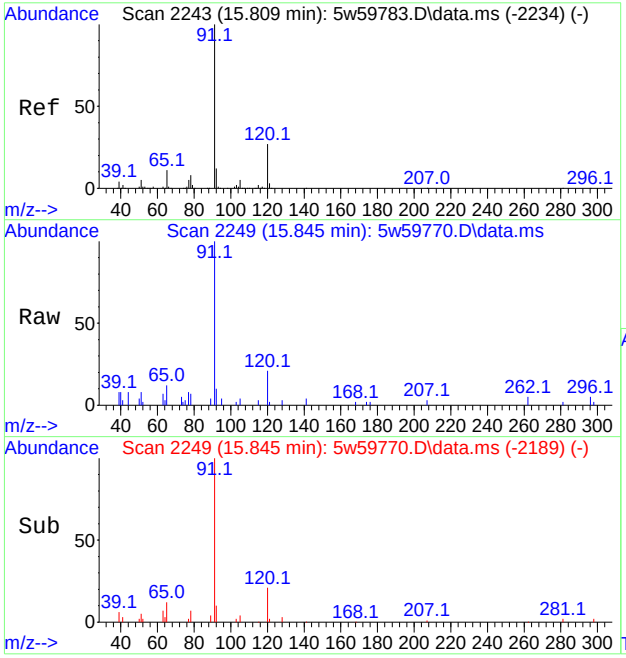


#90
2-CHLOROTOLUENE
Concen: 0.11 PPBV
RT: 15.797 min Scan# 2241
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:126 Resp: 6870

Ion	Ratio	Lower	Upper
126	100		
128	44.7	2.7	62.7

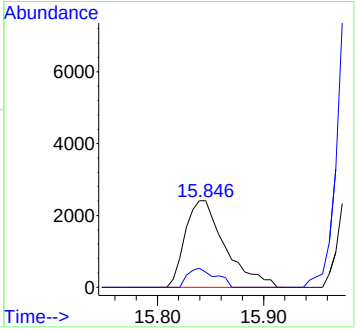


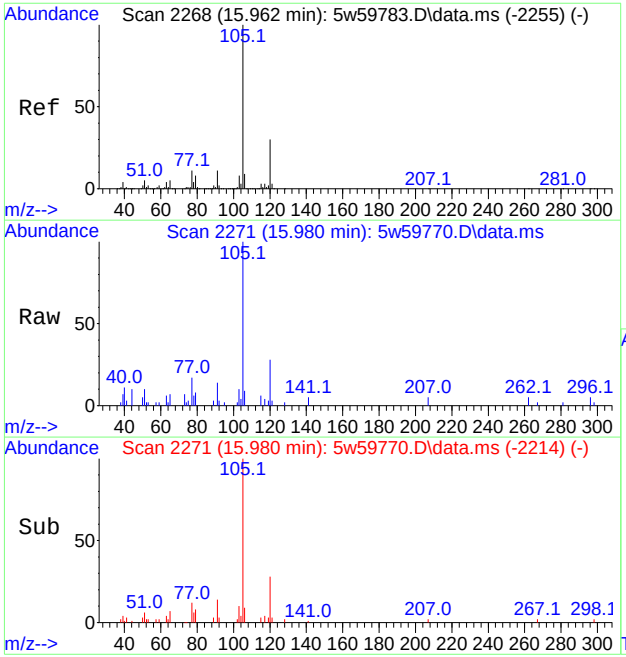


#91
n-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.845 min Scan# 2249
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:120 Resp: 6334

Ion	Ratio	Lower	Upper
120	100		
105	15.4	0.0	47.0

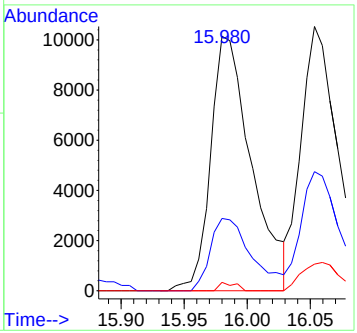


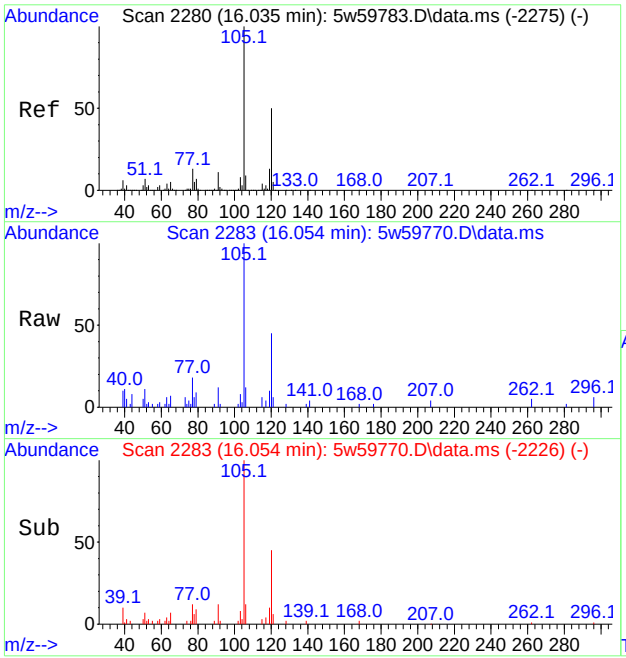


#92
4-ETHYLTOLUENE
Concen: 0.11 PPBV
RT: 15.980 min Scan# 2271
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 22792

Ion	Ratio	Lower	Upper
105	100		
120	29.0	0.0	59.9
119	1.3	0.0	32.3

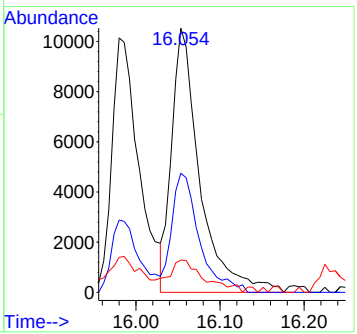


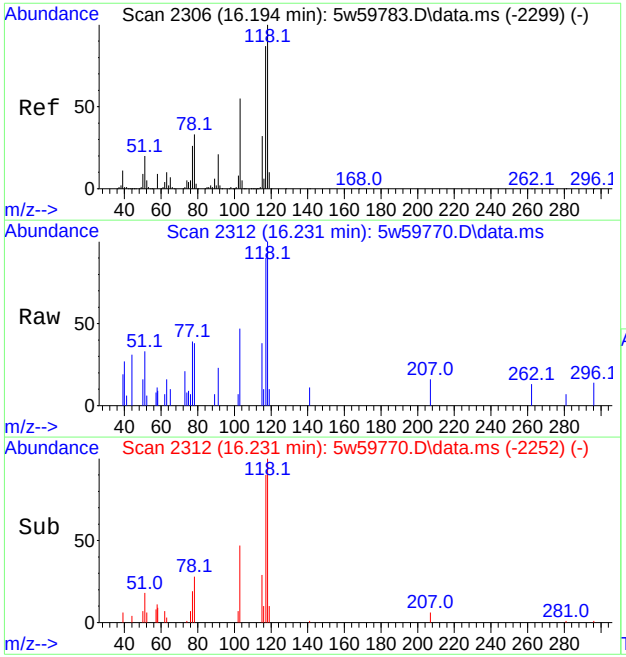


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.13 PPBV
RT: 16.054 min Scan# 2283
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 24501

Ion	Ratio	Lower	Upper
105	100		
120	43.9	19.4	79.4
91	14.7	0.0	40.8

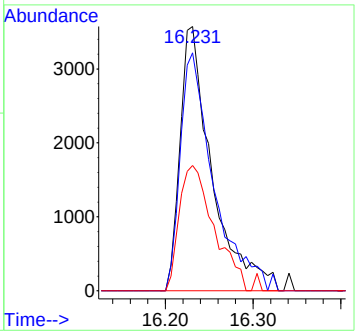


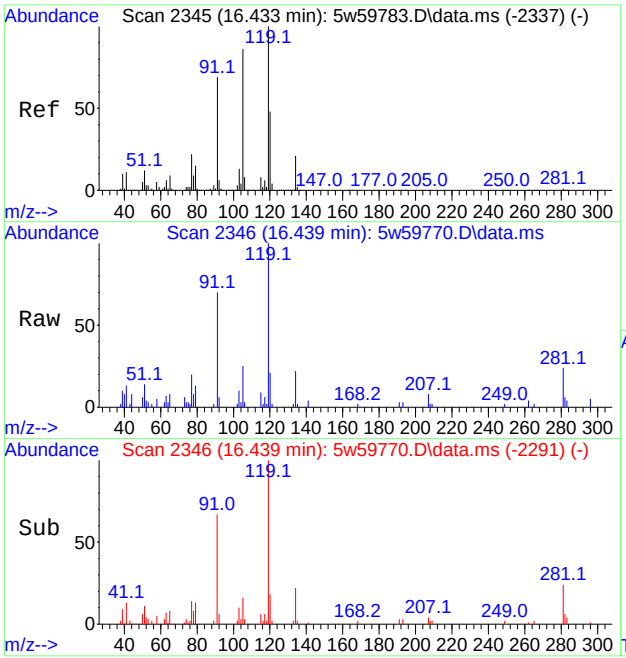


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.231 min Scan# 2312
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:118 Resp: 9018

Ion	Ratio	Lower	Upper
118	100		
117	94.5	60.9	113.1
103	51.7	38.6	71.8

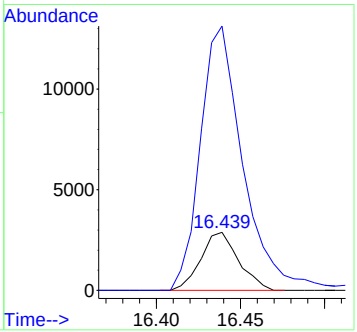


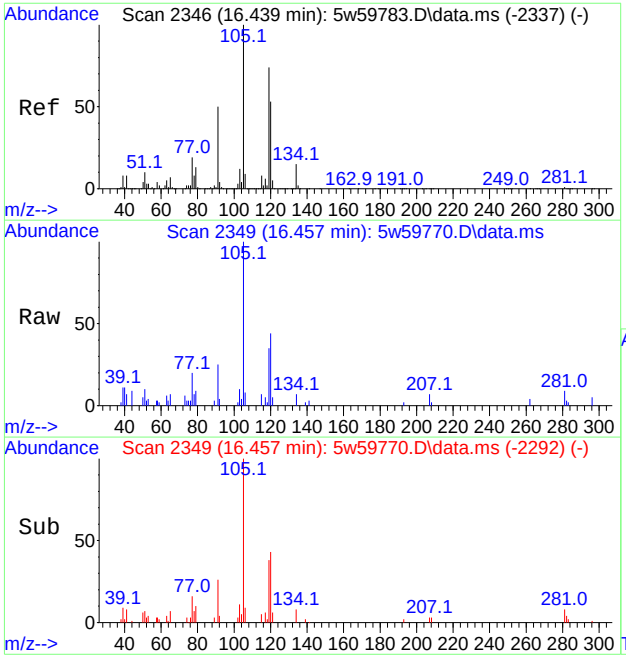


#95
tert-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 4502

Ion	Ratio	Lower	Upper
134	100		
119	518.7	459.3	519.3

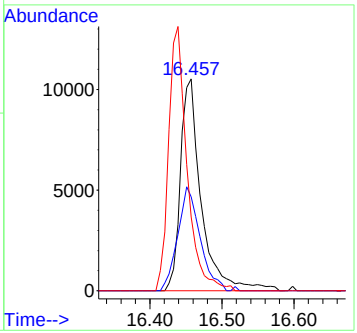


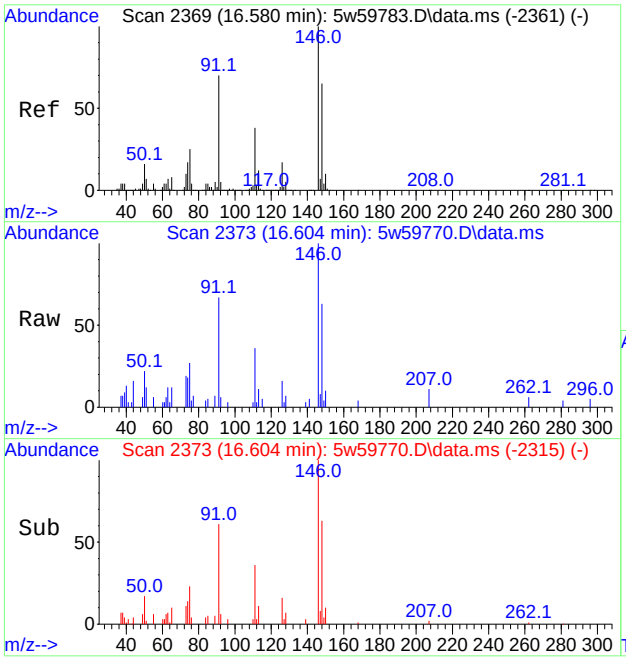


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.457 min Scan# 2349
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 21144

Ion	Ratio	Lower	Upper
105	100		
120	52.5	25.7	85.7
119	110.4	75.7	135.7

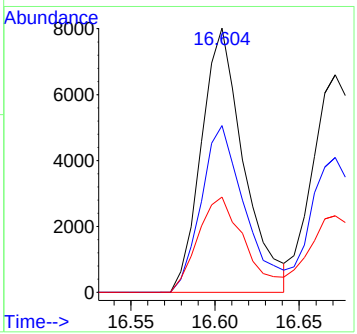


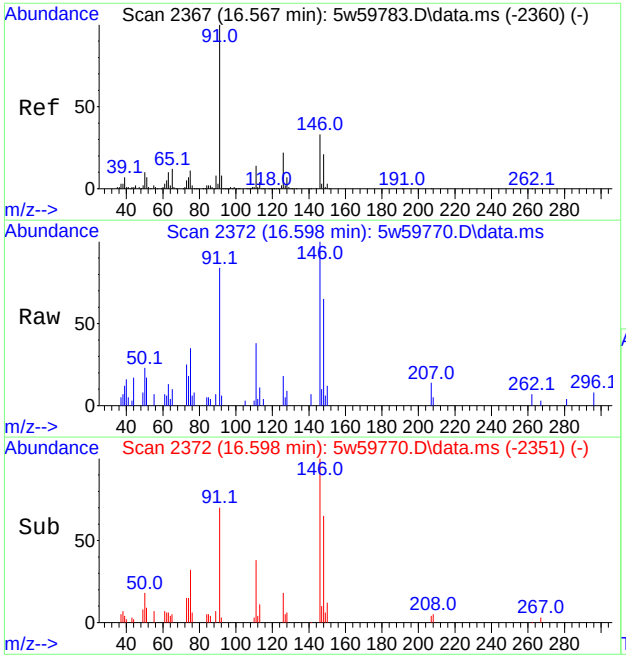


#97
m-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.604 min Scan# 2373
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 14099

Ion	Ratio	Lower	Upper
146	100		
148	65.5	34.8	94.8
111	40.2	8.2	68.2

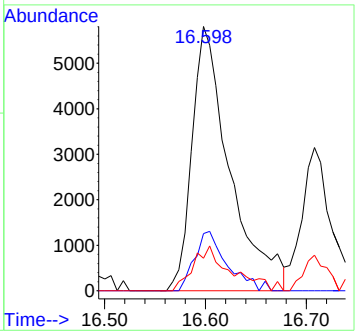


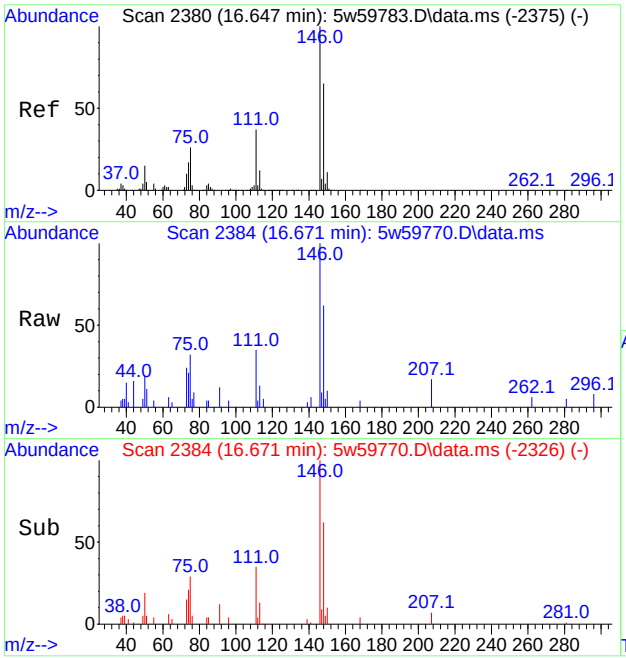


#98
BENZYL CHLORIDE
Concen: 0.09 PPBV
RT: 16.598 min Scan# 2372
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 15140

Ion	Ratio	Lower	Upper
91	100		
126	19.2	0.0	51.7
65	16.9	0.0	42.2

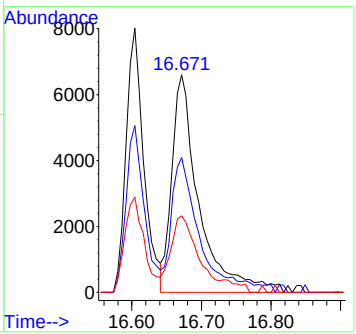


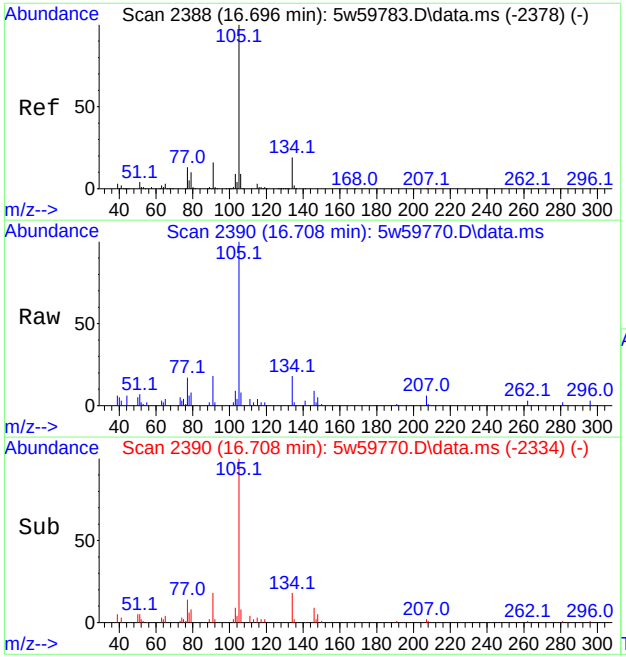


#99
p-DICHLOROBENZENE
Concen: 0.12 PPBV
RT: 16.671 min Scan# 2384
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 17844

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	38.4	6.7	66.7

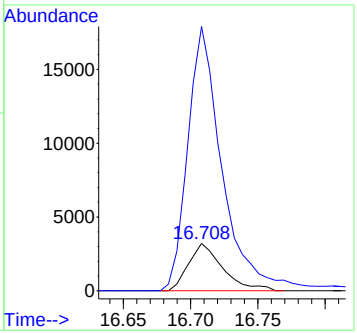


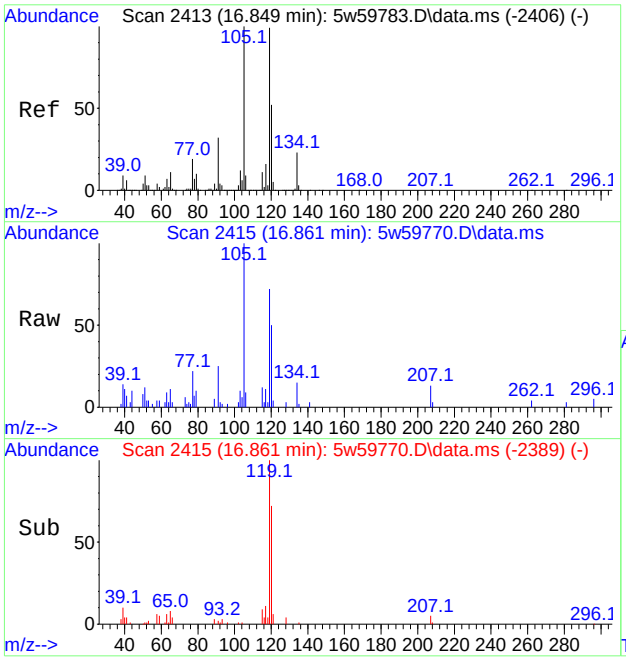


#100
sec-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.708 min Scan# 2390
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5680

Ion	Ratio	Lower	Upper
134	100		
105	572.9	502.5	562.5#

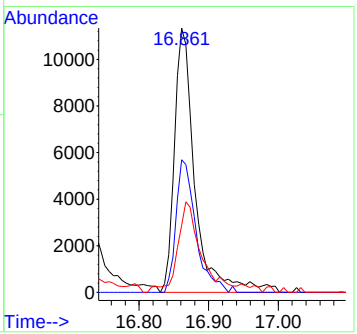


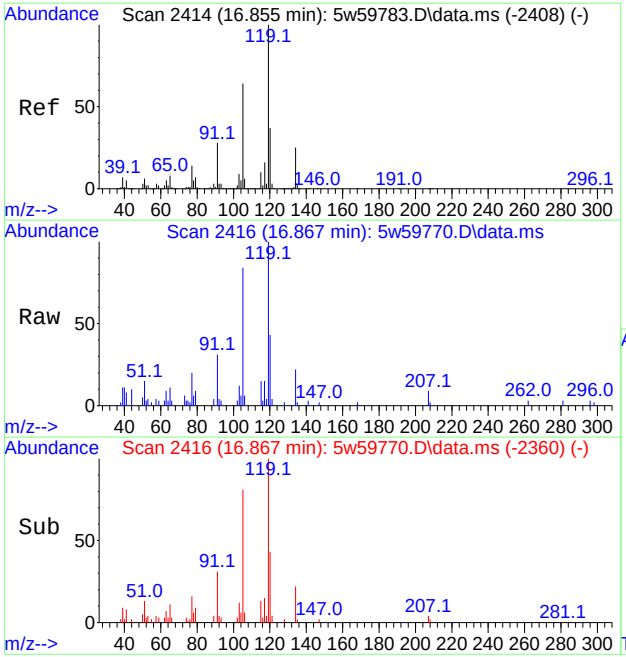


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 23306

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.5	83.5
91	41.1	7.4	67.4

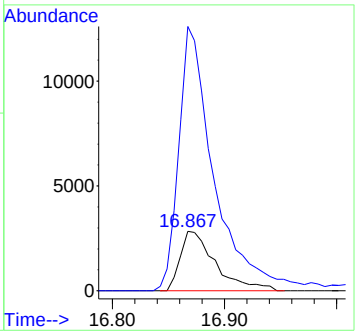


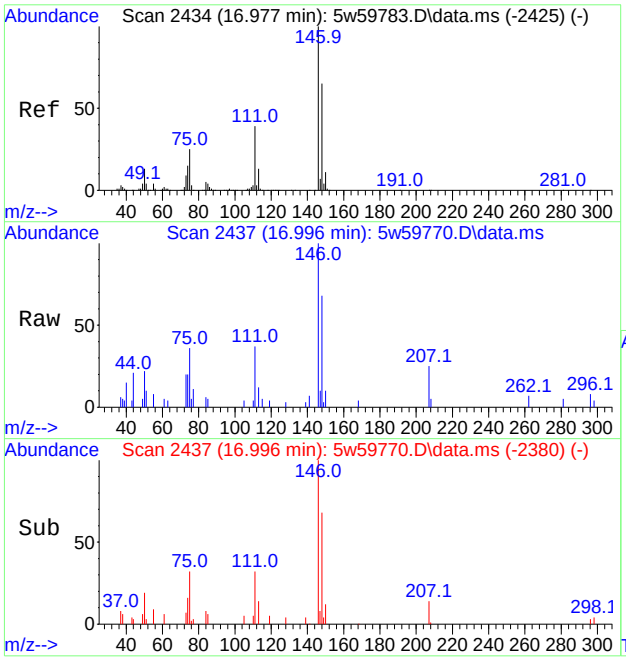


#102
p-ISOPROPYLTOLUENE
Concen: 0.11 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 6197

Ion	Ratio	Lower	Upper
134	100		
119	456.3	377.7	437.7#

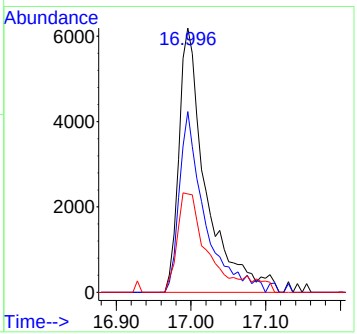


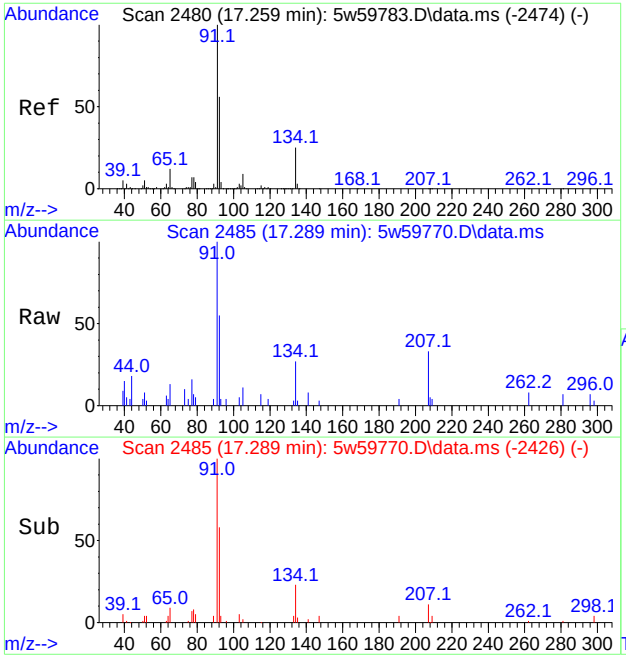


#103
o-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.996 min Scan# 2437
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 15528

Ion	Ratio	Lower	Upper
146	100		
148	64.1	34.3	94.3
111	44.3	9.2	69.2

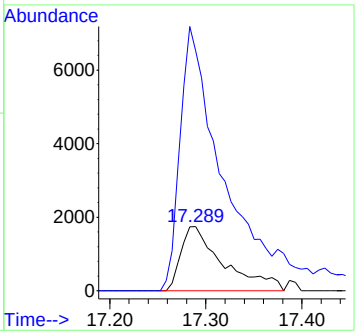


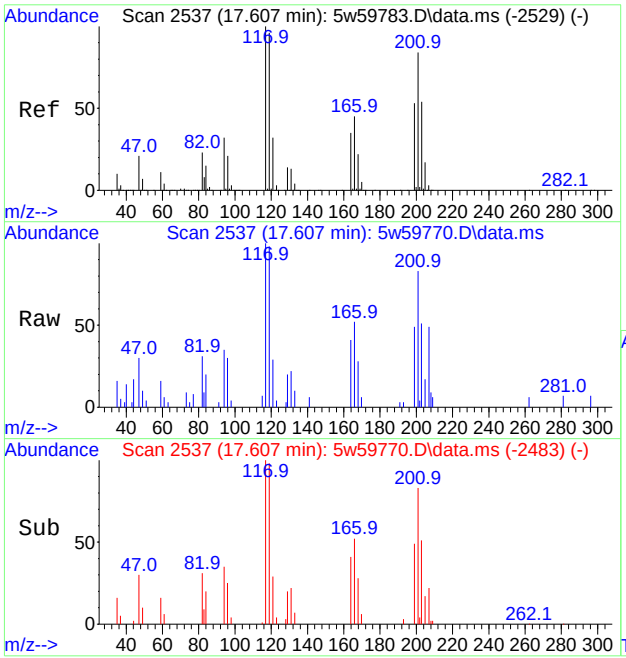


#104
n-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.289 min Scan# 2485
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5383

Ion	Ratio	Lower	Upper
134	100		
91	477.2	363.1	423.1#

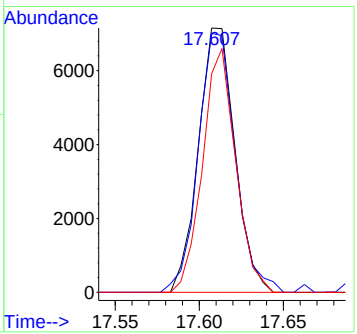


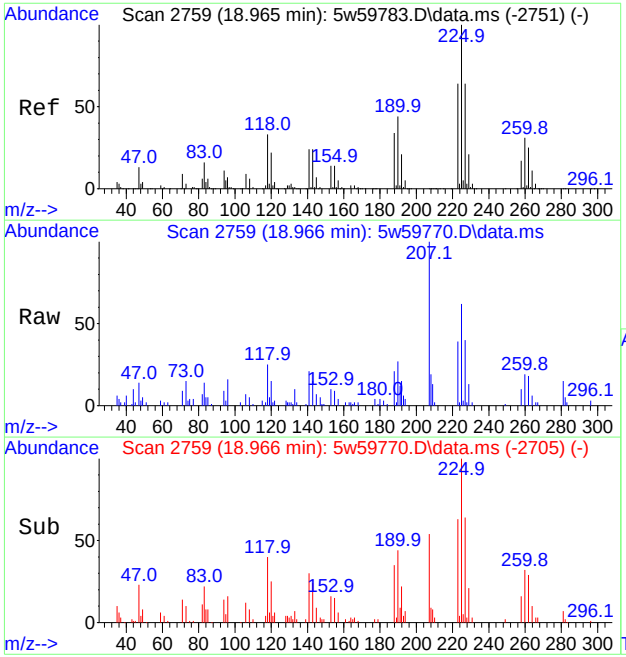


#105
HEXACHLOROETHANE
Concen: 0.11 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 10817

Ion	Ratio	Lower	Upper
117	100		
119	99.7	67.2	124.8
201	83.6	61.1	113.5

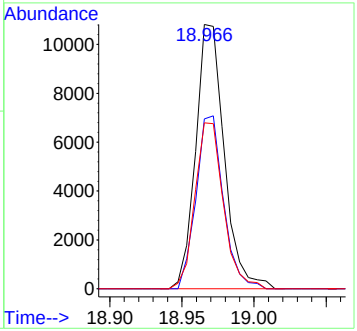


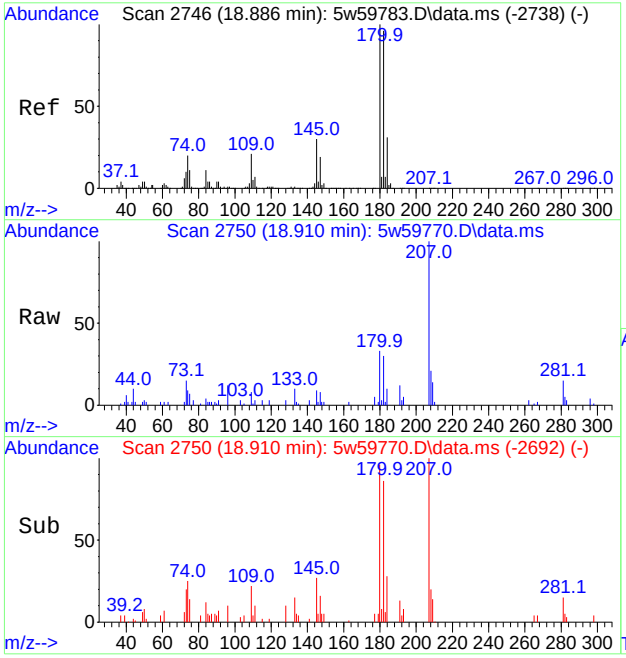


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:225 Resp: 14991

Ion	Ratio	Lower	Upper
225	100		
227	62.5	34.2	94.2
223	62.2	33.3	93.3

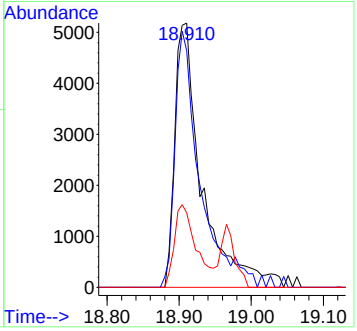


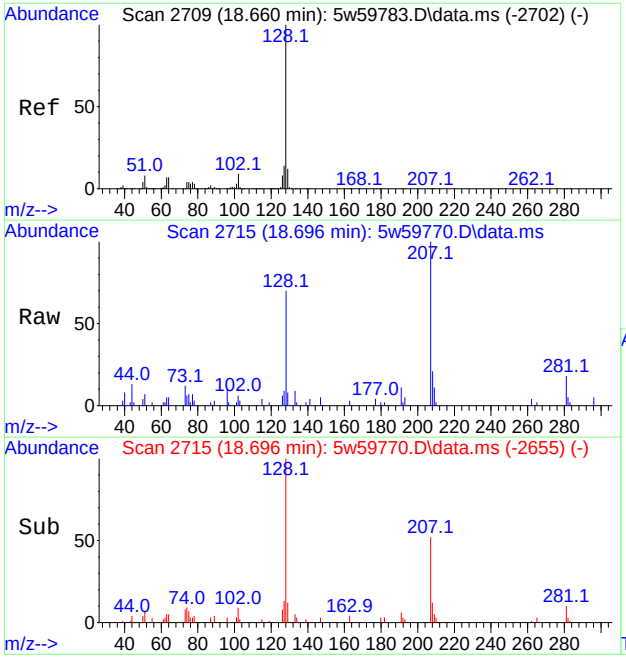


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.10 PPBV
RT: 18.910 min Scan# 2750
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:180 Resp: 13603

Ion	Ratio	Lower	Upper
180	100		
182	88.7	65.4	125.4
145	25.3	0.0	59.4

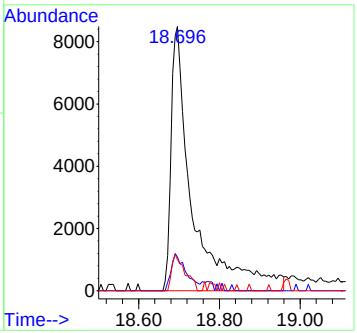


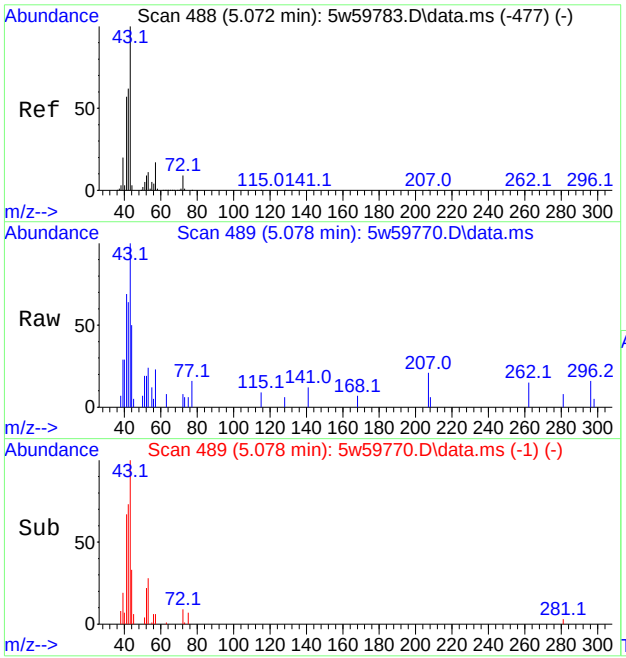


#108
NAPHTHALENE
Concen: 0.11 PPBV
RT: 18.696 min Scan# 2715
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:128 Resp: 31596

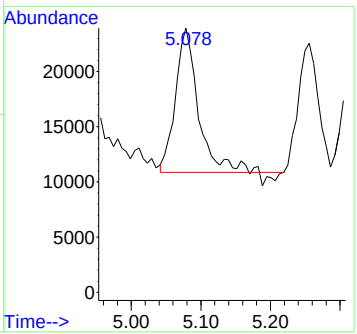
Ion	Ratio	Lower	Upper
128	100		
127	11.5	0.0	43.3
129	8.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.10 PPBV
RT: 5.078 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:TIC Resp: 29029



Manual Integration Approval Summary

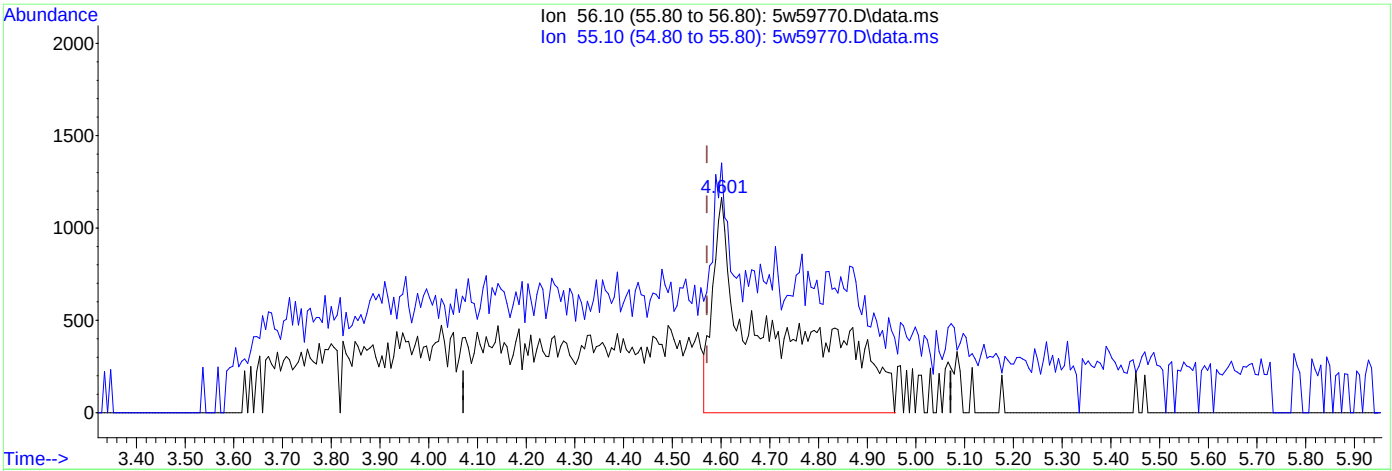
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59770.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:11 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

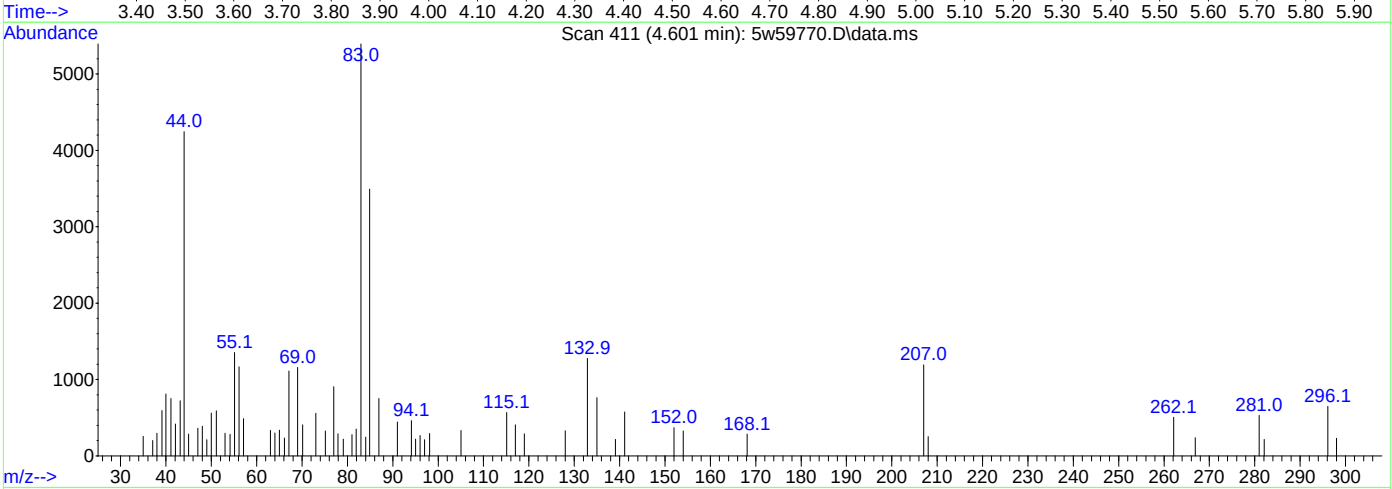
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		4.52	Poor instrument integration
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl ethyl ketone	78-93-3		6.92	Poor instrument integration
Methyl Acrylate	96-33-3		7.51	Missed peak
Ethyl Acetate	141-78-6		7.54	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.70PPBV

response 10153

Ion	Exp%	Act%
56.10	100	100
55.10	66.60	17.21#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
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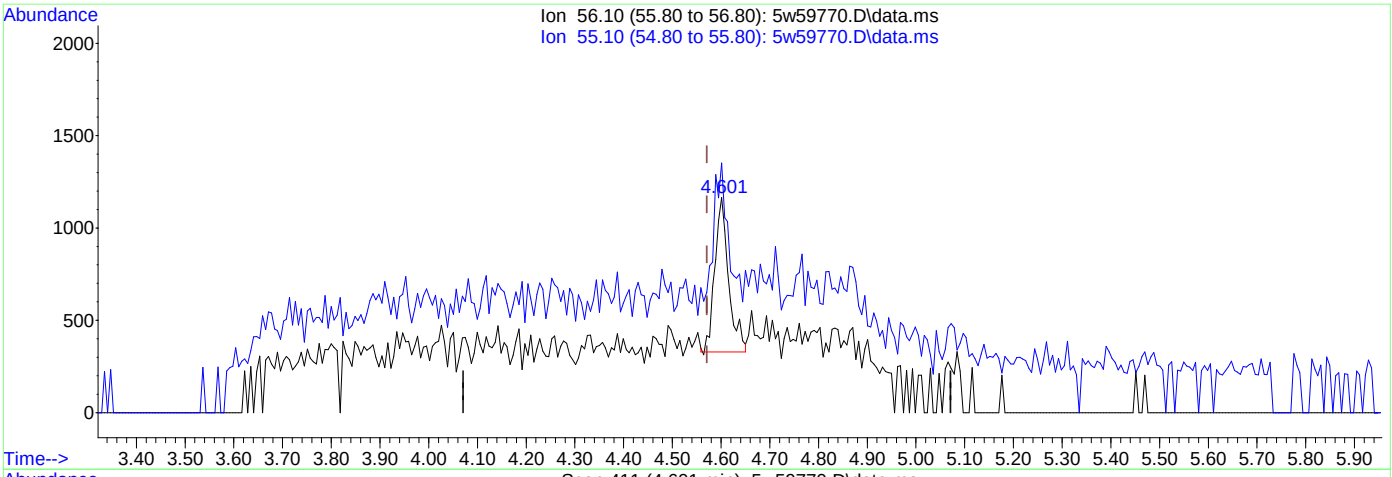
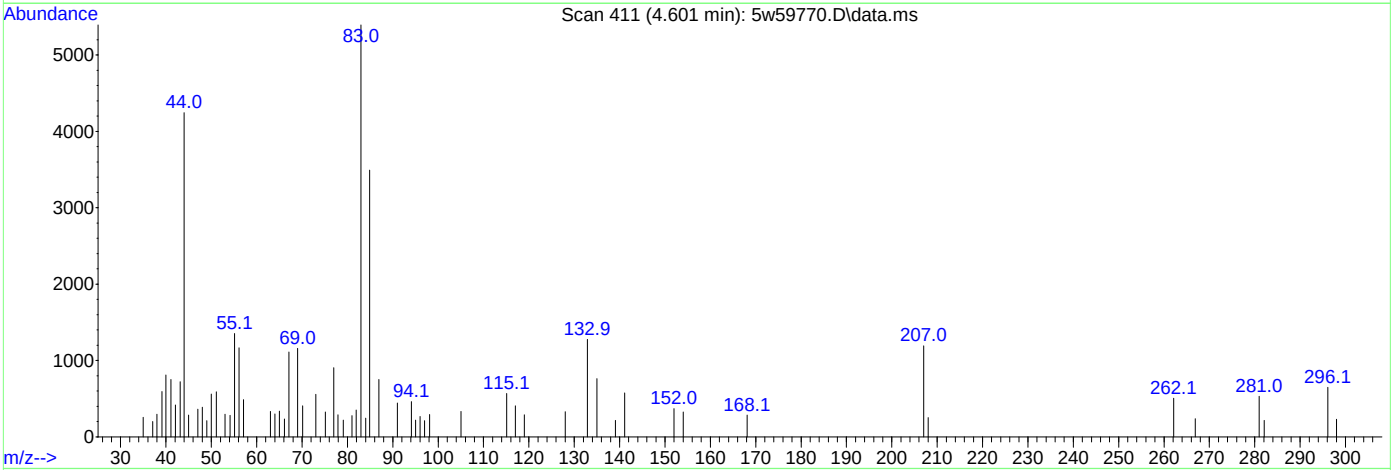
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.11PPBV m

response 1642

Ion	Exp%	Act%
56.10	100	100
55.10	66.60	106.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

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Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
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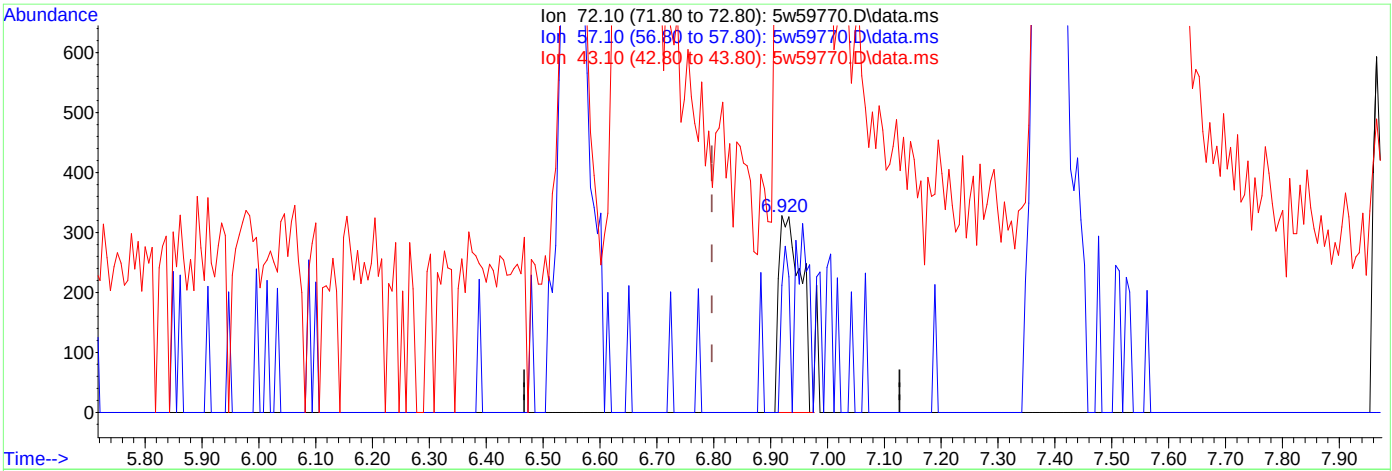

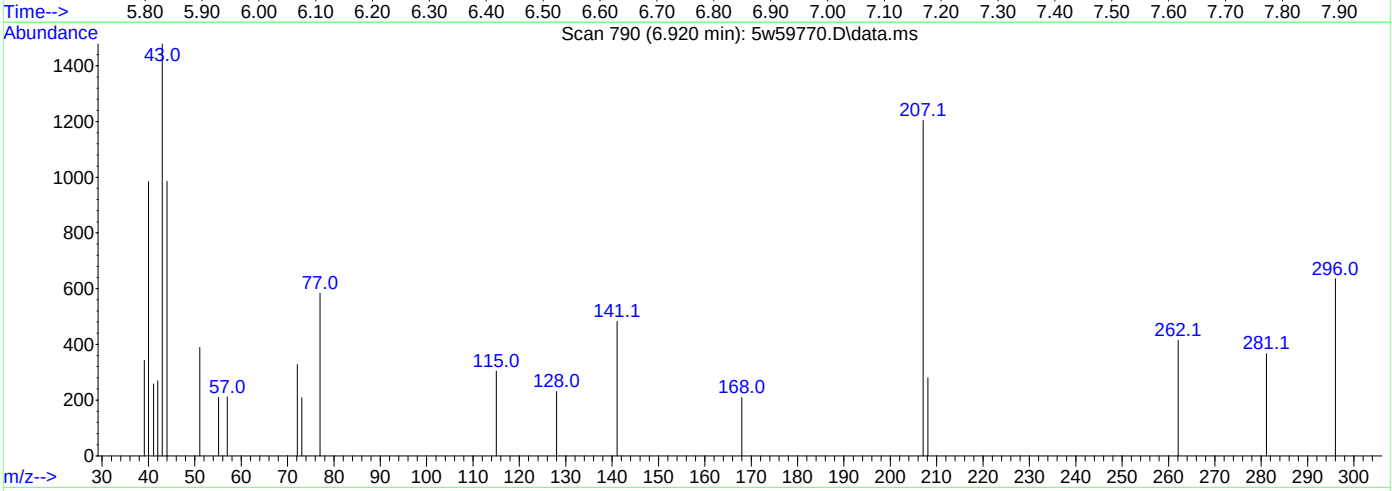

TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.04PPBV

response 878

Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

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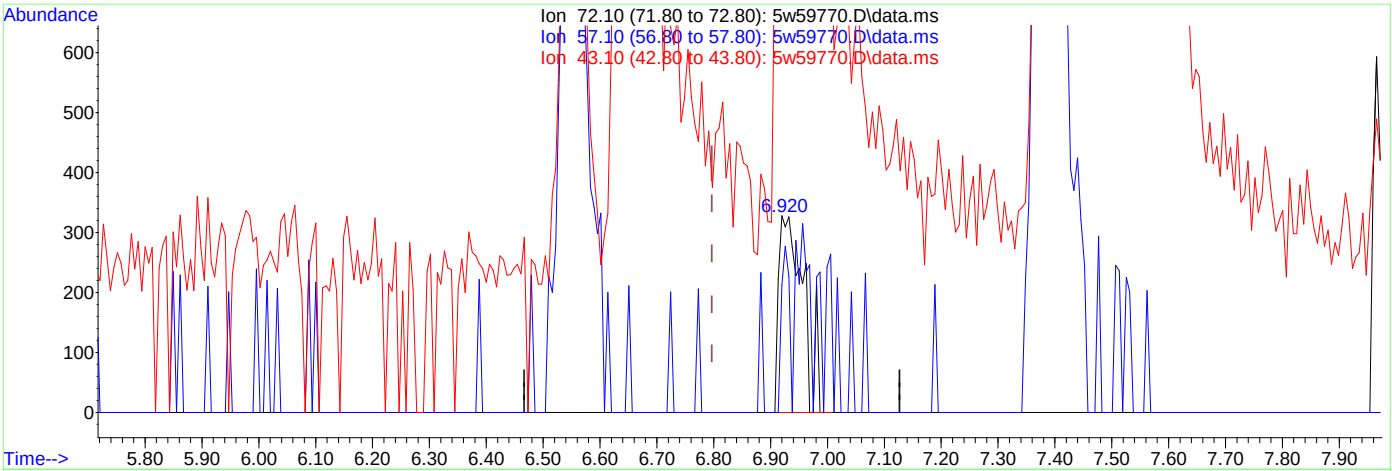
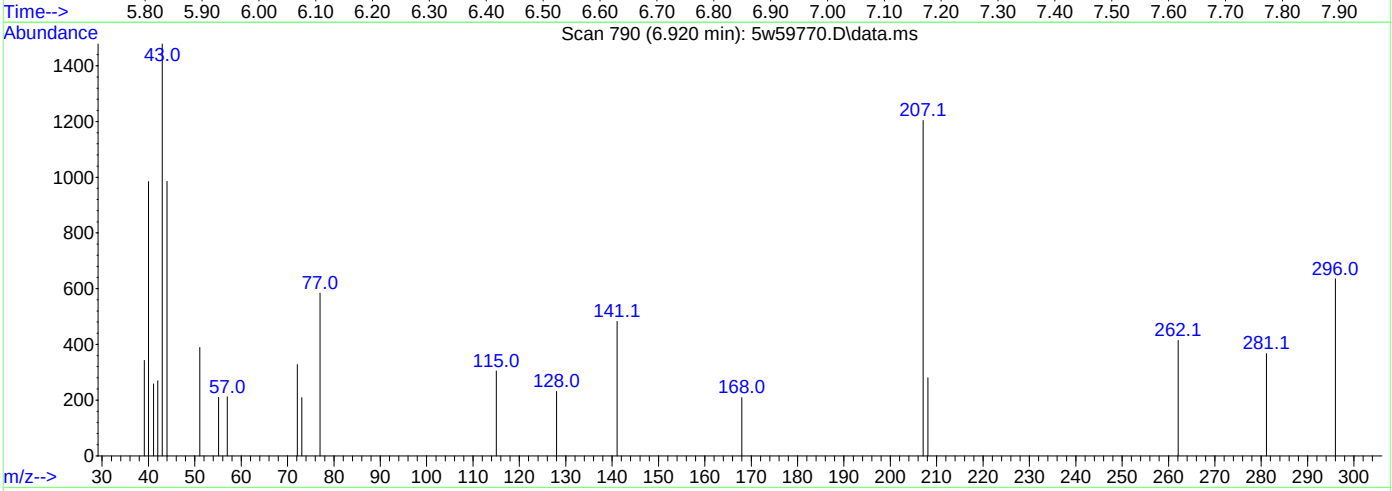




TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.05PPBV m

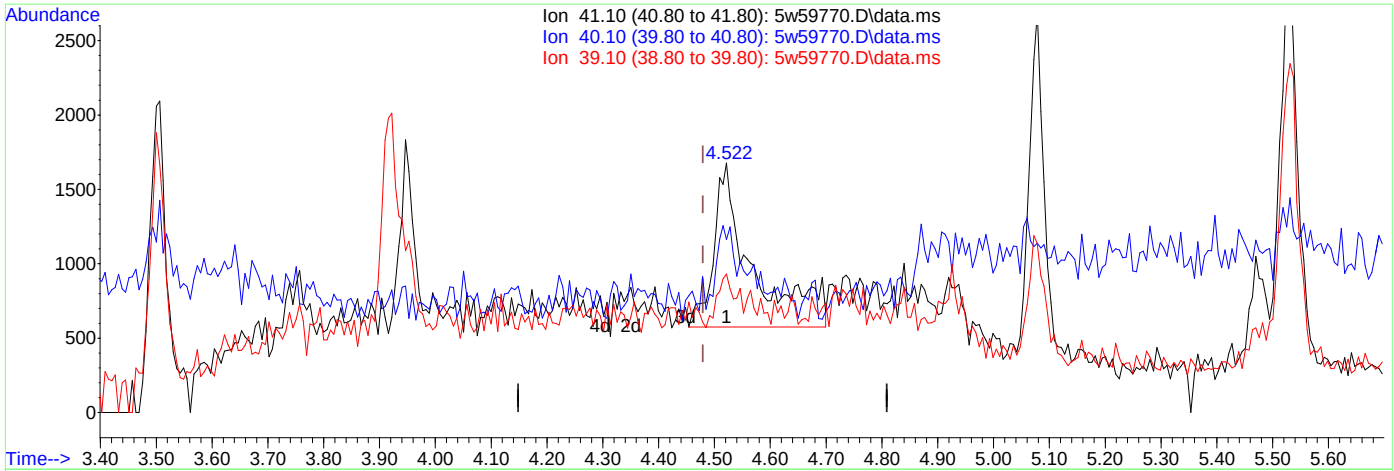
response 956

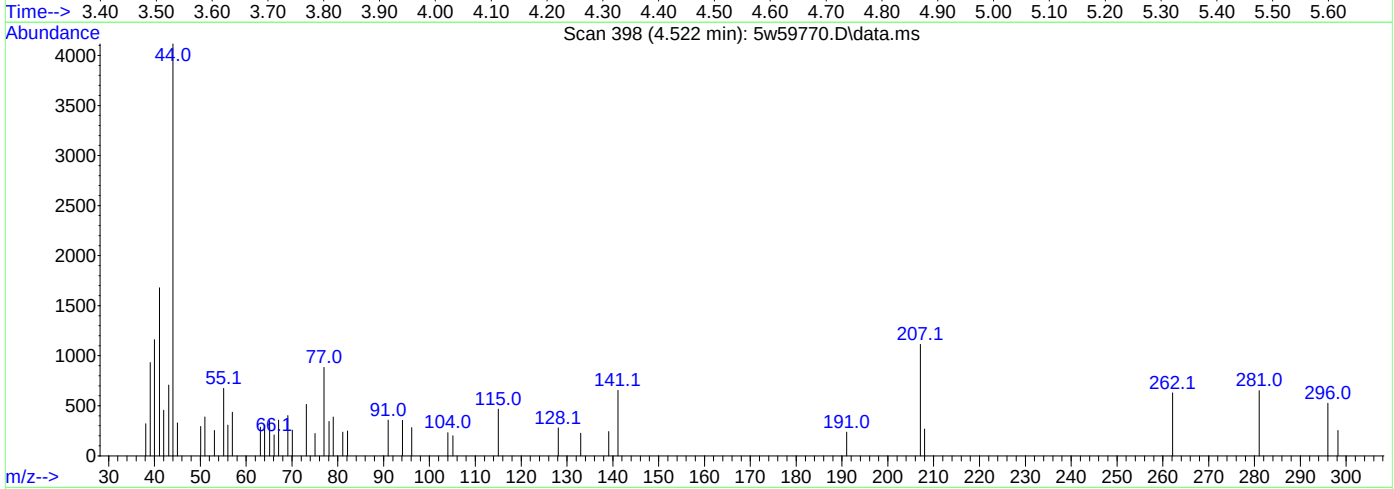
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.21PPBV

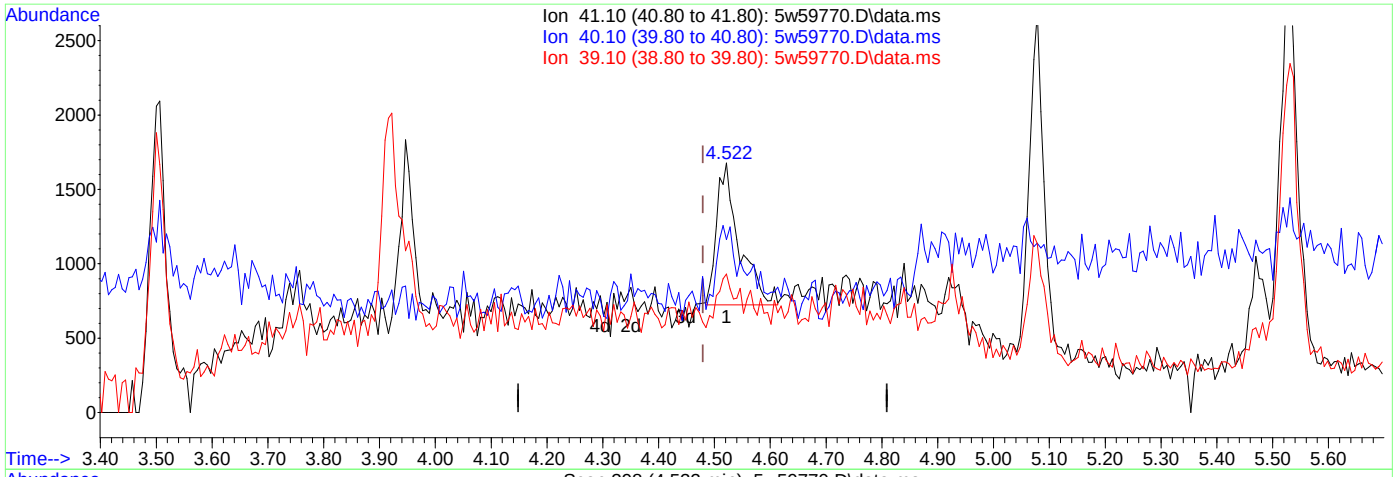
response 5252

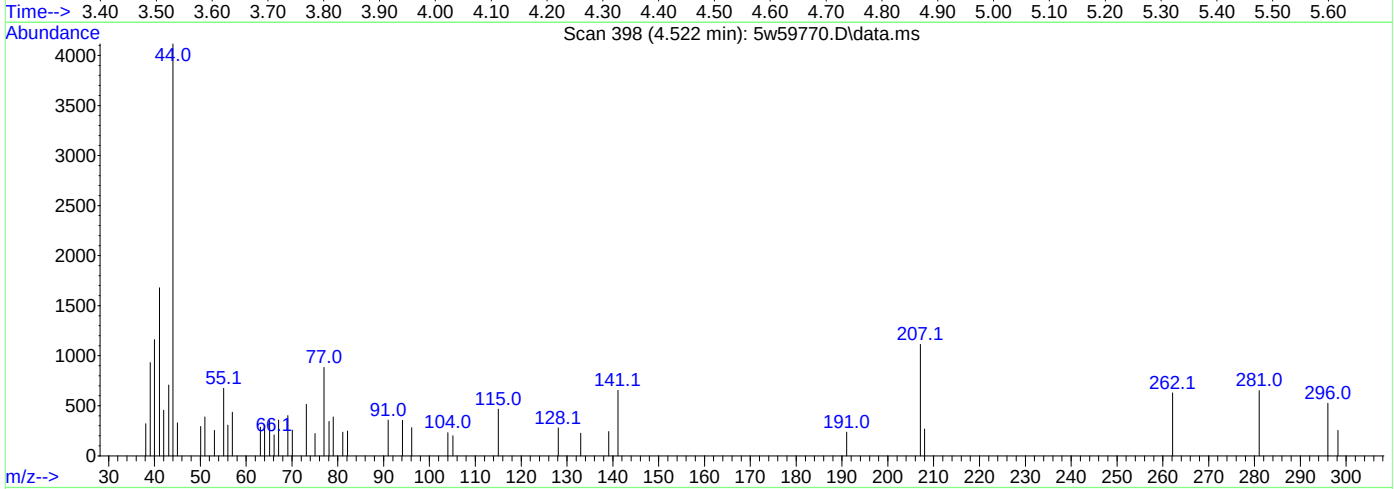
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	50.95
39.10	19.10	23.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.10PPBV m

response 2670

Ion	Exp%	Act%
41.10	100	100
40.10	54.20	100.22#
39.10	19.10	46.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
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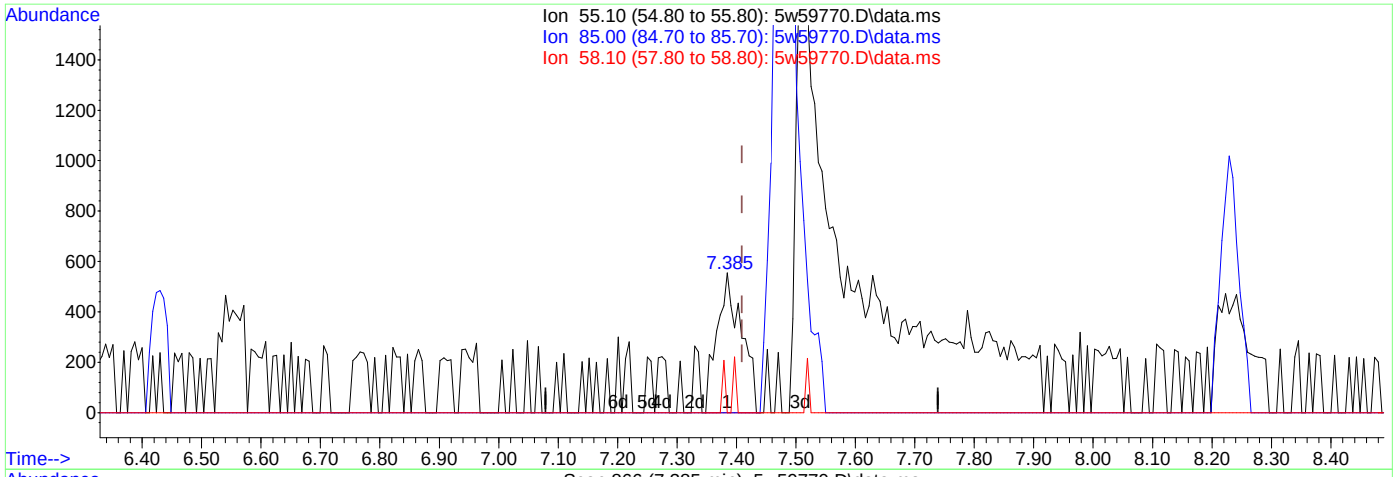
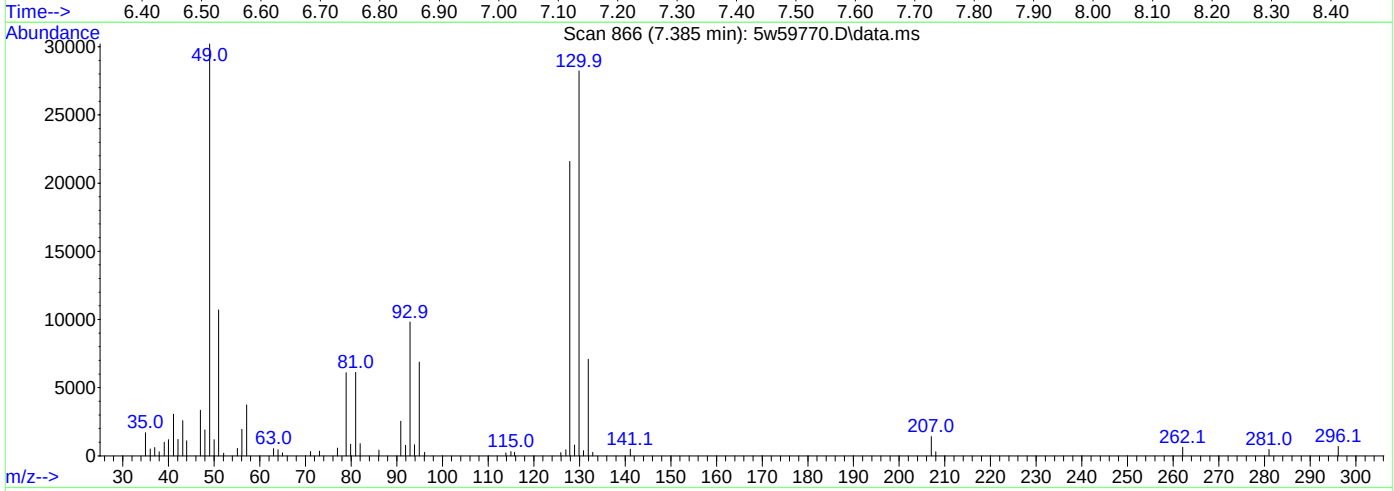




TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.02PPBV

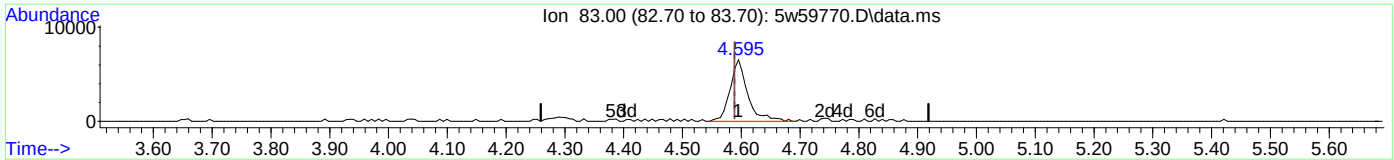
response 1598

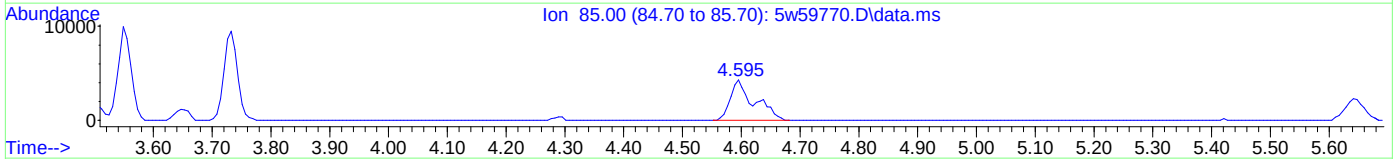
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

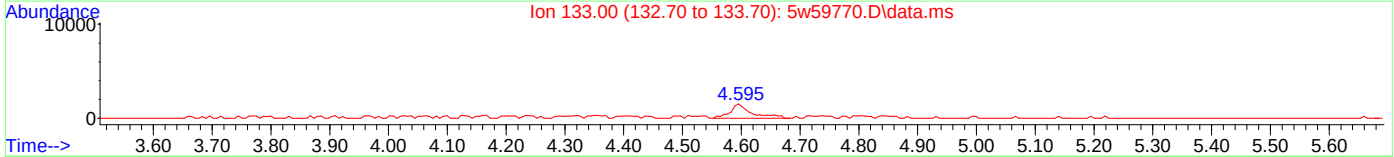
Quantitation Report (Qedit)

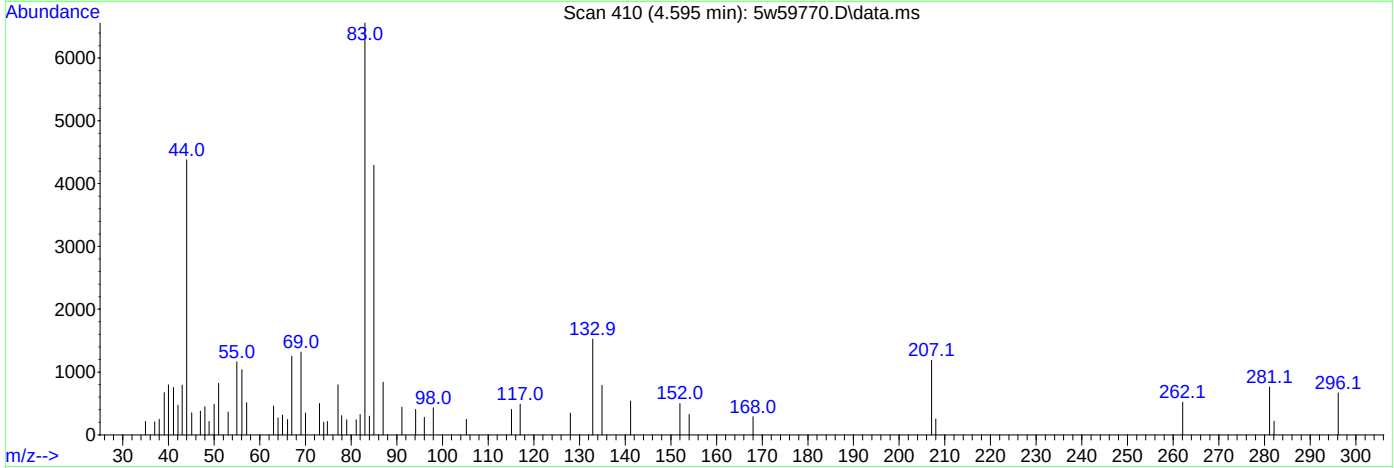
Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration









TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV

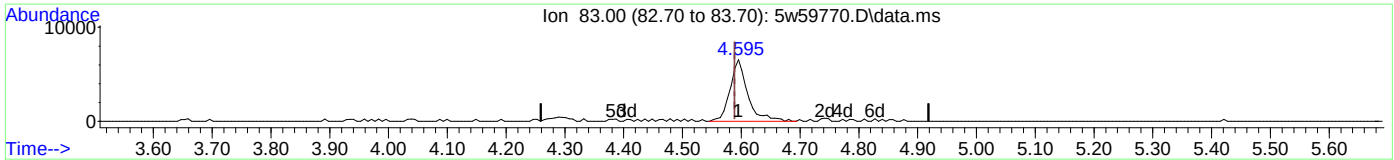
response 13808

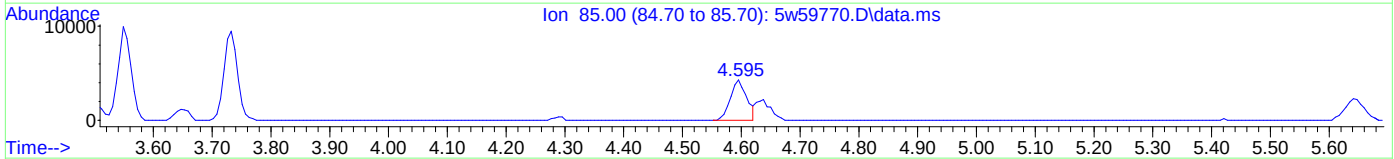
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	87.89
133.00	20.70	28.69
0.00	0.00	0.00

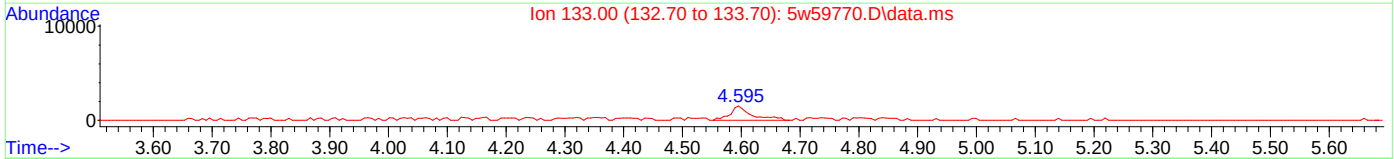
Quantitation Report (Qedit)

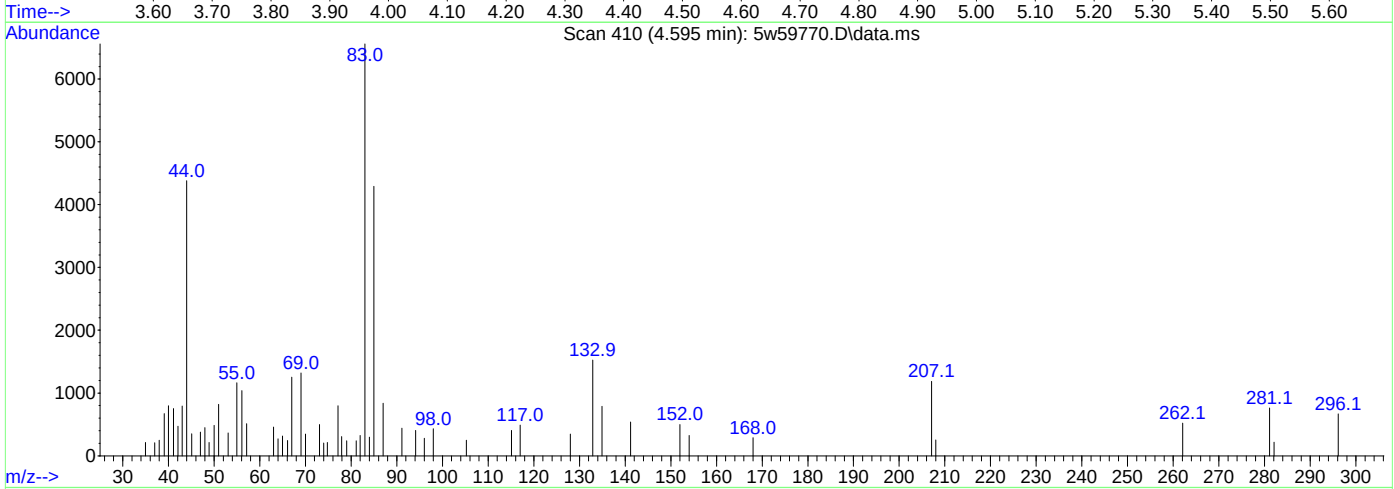
Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration









TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV m

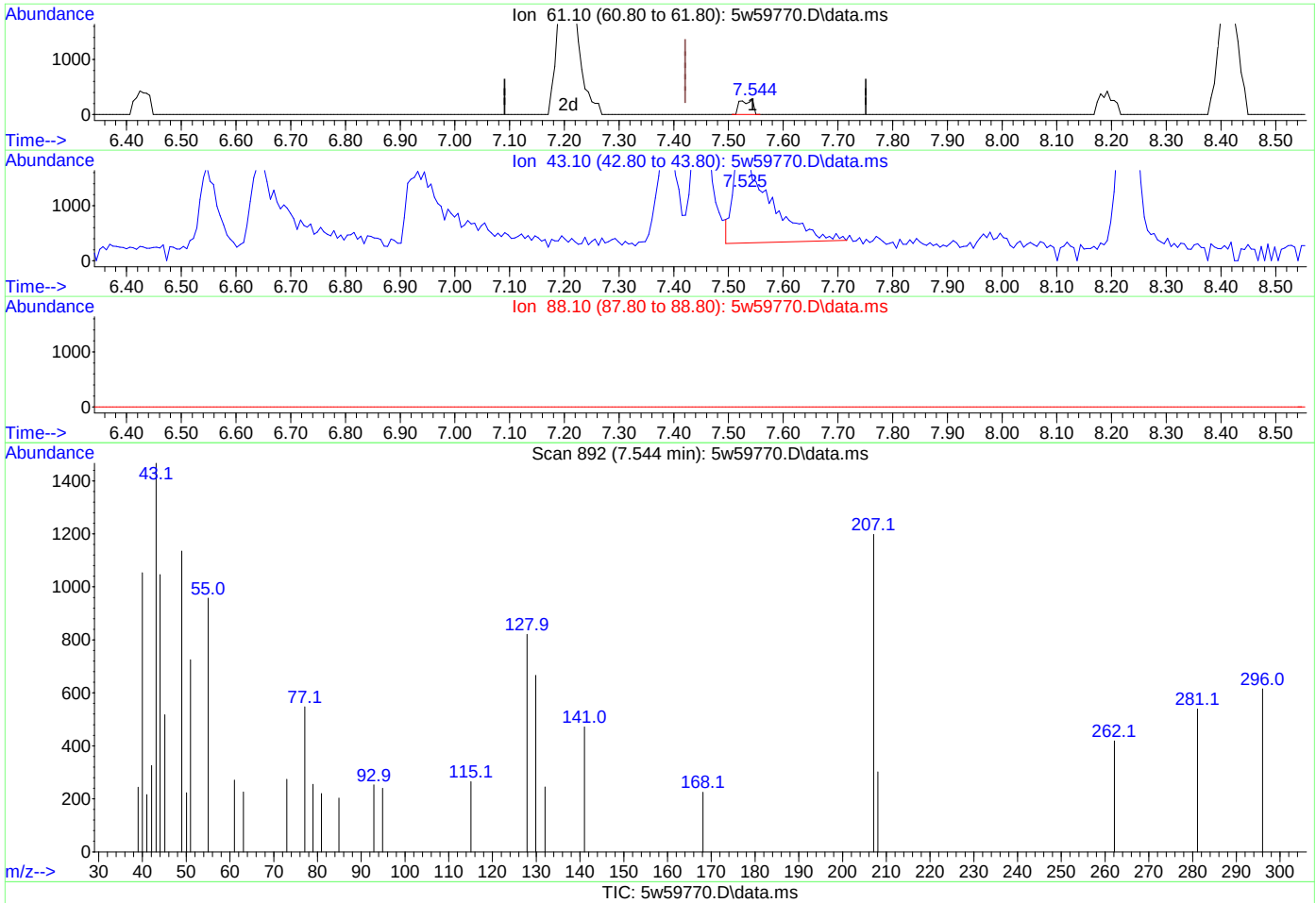
response 13808

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	60.19
133.00	20.70	28.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV

response 434

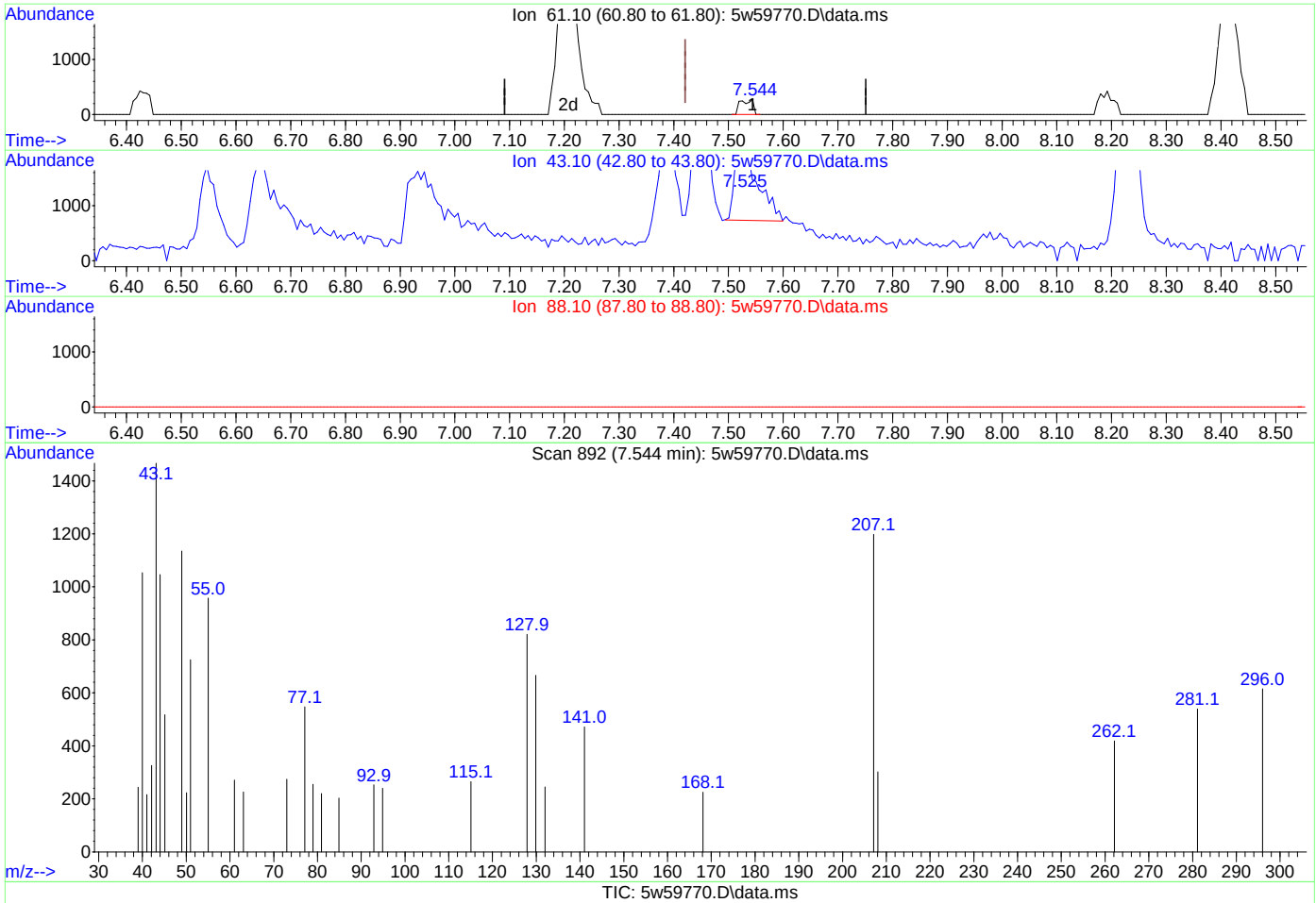
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1705.99#
88.10	34.50	0.00#
0.00	0.00	0.00

5W59770.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV m

response 434

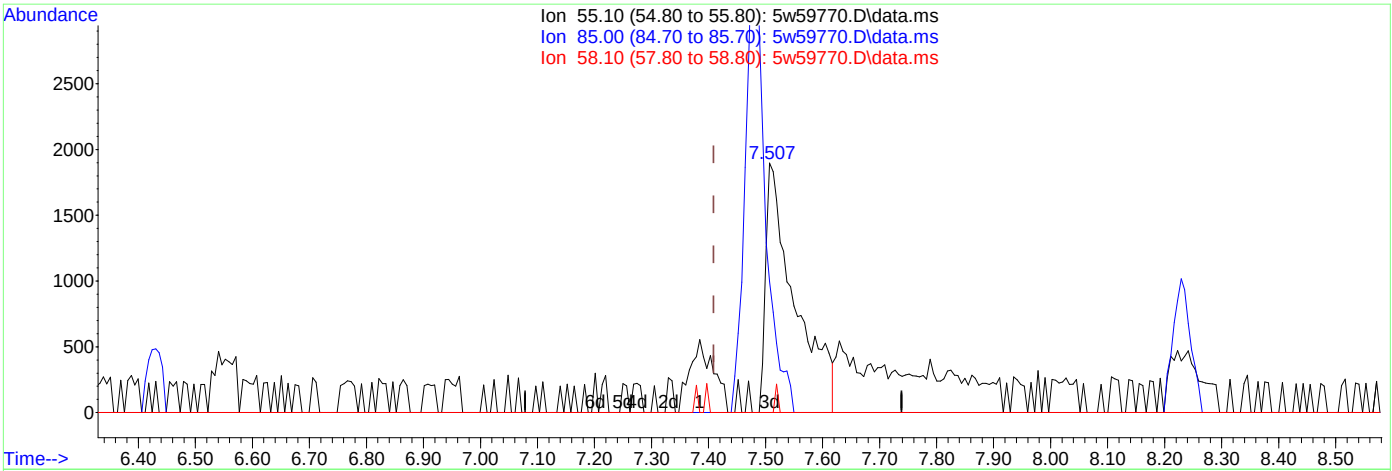
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	829.03#
88.10	34.50	0.00#
0.00	0.00	0.00

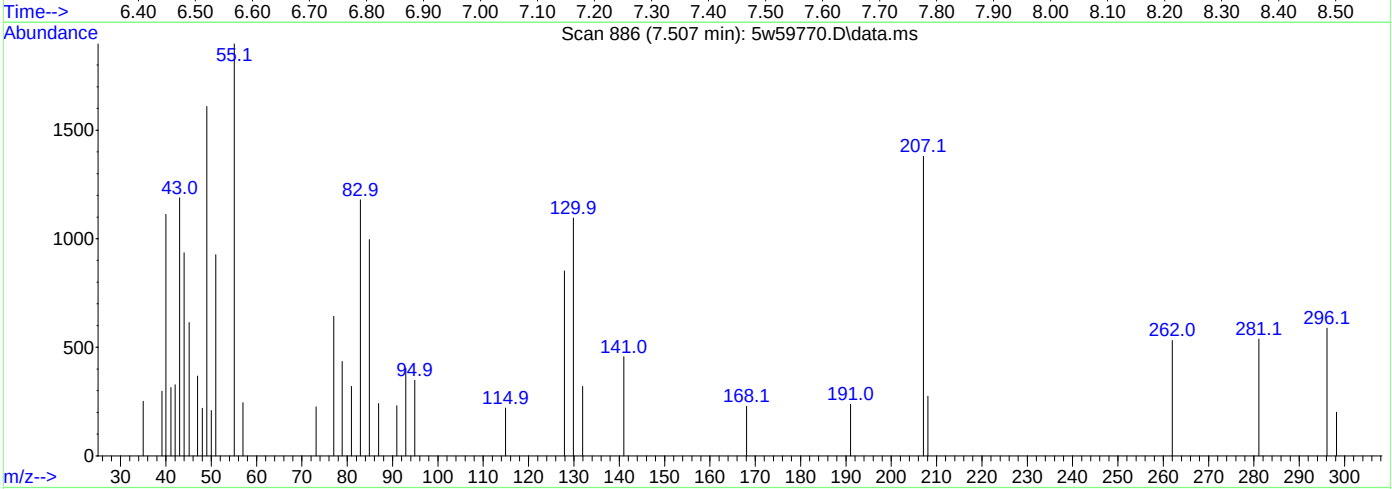
5W59770.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:51:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.507min (+0.098) 0.08PPBV m

response 6719

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	467597	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2126307	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1045384	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	471090	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1427663	11.16	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.60%				
Target Compounds							Qvalue
2) FREON 115	3.372	119	4412	0.12	PPBV		95
3) FREON 152A	3.445	65	7777	0.24	PPBV		98
4) CHLORODIFLUOROMETHANE	3.482	67	3190	0.21	PPBV		100
5) CHLOROTRIFLUOROETHENE	3.506	116	14712	0.20	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	29673	0.22	PPBV		99
7) PROPYLENE	3.506	41	8750	0.24	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	25496	0.24	PPBV		98
9) FREON 114	3.733	85	30048	0.24	PPBV		100
10) CHLOROMETHANE	3.665	52	3463	0.25	PPBV	#	84
11) VINYL CHLORIDE	3.818	62	10347	0.23	PPBV		91
12) 1,3-BUTADIENE	3.916	54	6663	0.25	PPBV		93
13) n-BUTANE	3.947	43	10741	0.25	PPBV	#	93
14) BROMOMETHANE	4.106	94	10837	0.23	PPBV		77
15) CHLOROETHANE	4.228	64	5570	0.26	PPBV		90
16) DICHLOROFLUOROMETHANE	4.289	67	22344	0.23	PPBV		99
17) ACETONITRILE	4.510	41	6047	0.24	PPBV	#	74
18) ACROLEIN	4.595	56	3414m	0.24	PPBV		
19) FREON 123	4.595	83	25775m	0.24	PPBV		
20) FREON 123A	4.638	117	14980	0.23	PPBV		96
21) TRICHLOROFLUOROMETHANE	4.797	101	26063	0.22	PPBV		93
22) ISOPROPYL ALCOHOL	4.926	45	22029	0.25	PPBV		87
23) ACETONE	4.718	58	6066	0.34	PPBV		100
24) PENTANE	5.079	42	10859	0.25	PPBV		93
25) IODOMETHANE	5.256	142	32697	0.22	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.323	96	10700	0.22	PPBV		95
27) CARBON DISULFIDE	5.678	76	29507	0.22	PPBV		92
28) ETHANOL	4.344	45	12121	0.73	PPBV		98
29) BROMOETHENE	4.485	106	10750	0.22	PPBV		92
30) ACRYLONITRILE	5.085	52	7876	0.26	PPBV		94
31) METHYLENE CHLORIDE	5.427	84	11602	0.27	PPBV		97
32) 3-CHLOROPROPENE	5.525	76	4977	0.22	PPBV		98
33) FREON 113	5.647	151	17747	0.21	PPBV		95
34) TRANS-1,2-DICHLOROETHY...	6.247	96	11590	0.22	PPBV		85
35) TERTIARY BUTYL ALCOHOL	5.464	59	19541	0.20	PPBV		97
36) METHYL TERTIARY BUTYL ...	6.541	73	29335	0.23	PPBV		89
37) TETRAHYDROFURAN	7.954	72	3172	0.16	PPBV	#	59
38) HEXANE	7.385	57	18650	0.26	PPBV	#	77
39) VINYL ACETATE	6.620	86	653	0.09	PPBV	#	1
40) 1,1-DICHLOROETHANE	6.431	63	21909	0.23	PPBV		96
41) METHYL ETHYL KETONE	6.902	72	2781	0.14	PPBV	#	80
42) cis-1,2-DICHLOROETHYLENE	7.207	96	12027	0.22	PPBV		91
43) DIISOPROPYL ETHER	7.440	59	3909	0.18	PPBV	#	53
44) ETHYL ACETATE	7.501	61	2309m	0.15	PPBV		
45) METHYL ACRYLATE	7.489	55	14366m	0.17	PPBV		
46) CHLOROFORM	7.483	83	23090	0.22	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	18643	0.22	PPBV		100
48) 1,1,1-TRICHLOROETHANE	8.413	97	24304	0.22	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	25552	0.21	PPBV		100
50)	1,2-DICHLOROETHANE	8.186	62	16304	0.22	PPBV		94
52)	BENZENE	8.859	78	30072	0.21	PPBV		99
53)	CYCLOHEXANE	9.110	84	12037	0.20	PPBV		94
54)	2,3-DIMETHYLPENTANE	9.355	71	5961	0.20	PPBV		91
55)	TRICHLOROETHYLENE	9.899	95	14290	0.19	PPBV		99
56)	1,2-DICHLOROPROPANE	9.667	63	12562	0.20	PPBV		99
57)	DIBROMOMETHANE	9.642	174	16323	0.20	PPBV		98
58)	ETHYL ACRYLATE	9.801	55	11494m	0.10	PPBV		
59)	BROMODICHLOROMETHANE	9.856	83	25637	0.20	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	49437	0.21	PPBV		95
61)	1,4-DIOXANE	9.997	88	7396	0.22	PPBV	#	1
62)	HEPTANE	10.193	43	19280	0.24	PPBV		92
63)	METHYL METHACRYLATE	10.175	69	8860	0.18	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.890	58	6548	0.14	PPBV	#	70
65)	cis-1,3-DICHLOROPROPENE	10.774	75	20672	0.20	PPBV		93
66)	TOLUENE	11.735	92	21289	0.19	PPBV		93
67)	1,3-DICHLOROPROPANE	11.777	76	18562m	0.21	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.312	75	19068	0.20	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.465	83	11660	0.19	PPBV		99
71)	2-HEXANONE	12.169	58	9038m	0.16	PPBV		
72)	ETHYL METHACRYLATE	12.083	69	14602	0.19	PPBV	#	86
73)	TETRACHLOROETHYLENE	12.879	164	16678	0.23	PPBV		96
74)	DIBROMOCHLOROMETHANE	12.163	129	26574	0.21	PPBV		99
75)	1,2-DIBROMOETHANE	12.414	107	22241	0.22	PPBV		100
76)	OCTANE	12.750	43	23489	0.25	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	17410	0.21	PPBV		95
78)	CHLOROBENZENE	13.588	112	29927	0.23	PPBV		100
79)	ETHYLBENZENE	14.004	91	48060	0.24	PPBV		96
80)	m,p-XYLENE	14.188	106	36141	0.45	PPBV		97
81)	o-XYLENE	14.689	106	17278	0.23	PPBV		90
82)	STYRENE	14.598	104	26105	0.21	PPBV		86
83)	NONANE	14.934	43	25033	0.26	PPBV		94
84)	BROMOFORM	14.261	173	25461	0.20	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.696	83	30281	0.23	PPBV		97
87)	1,2,3-TRICHLOROPROPANE	14.836	75	24248	0.24	PPBV		93
88)	ISOPROPYLBENZENE	15.307	105	52329	0.23	PPBV		98
89)	BROMOBENZENE	15.393	77	27933	0.24	PPBV		92
90)	2-CHLOROTOLUENE	15.785	126	13598	0.21	PPBV		86
91)	n-PROPYLBENZENE	15.827	120	13388	0.21	PPBV		99
92)	4-ETHYLTOLUENE	15.974	105	48336	0.22	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.048	105	48446	0.26	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.219	118	19855	0.19	PPBV		97
95)	tert-BUTYLBENZENE	16.433	134	8909	0.22	PPBV	#	87
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	44191	0.24	PPBV		99
97)	m-DICHLOROBENZENE	16.592	146	29601	0.20	PPBV		98
98)	BENZYL CHLORIDE	16.586	91	33418	0.19	PPBV		96
99)	p-DICHLOROBENZENE	16.659	146	36208	0.24	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	11583	0.23	PPBV		91
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	45724	0.24	PPBV		94
102)	p-ISOPROPYLTOLUENE	16.867	134	13423	0.23	PPBV		93
103)	o-DICHLOROBENZENE	16.990	146	31360	0.22	PPBV		98
104)	n-BUTYLBENZENE	17.271	134	12074	0.20	PPBV	#	83
105)	HEXACHLOROETHANE	17.608	117	22122	0.23	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	30270	0.23	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.898	180	27720	0.21	PPBV		97
108)	NAPHTHALENE	18.678	128	62904	0.22	PPBV		97
110)	TVHC as equiv Pentane	5.079	TIC	73523	0.25	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

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

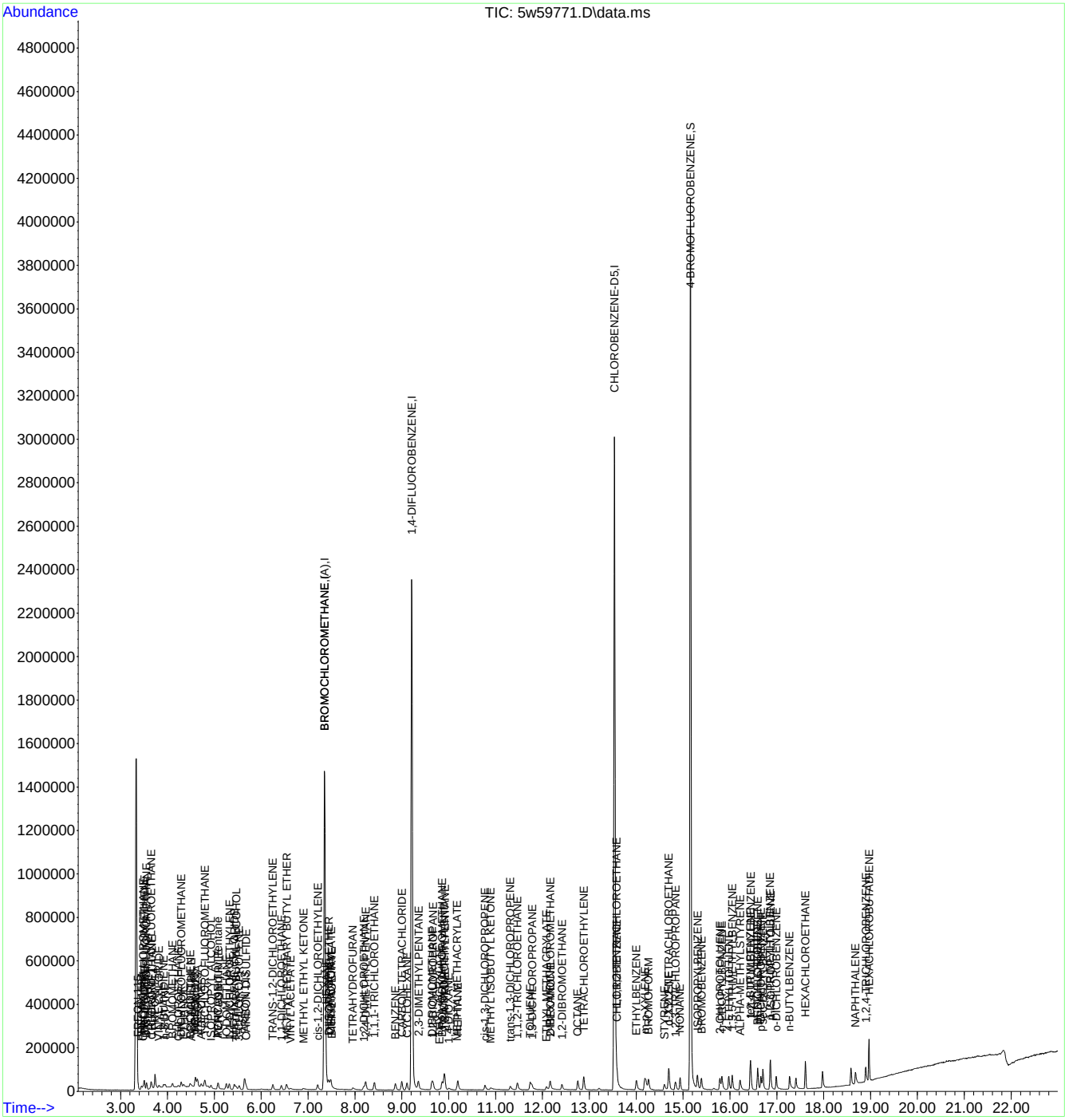
(#) = qualifier out of range (m) = manual integration (+) = signals summed

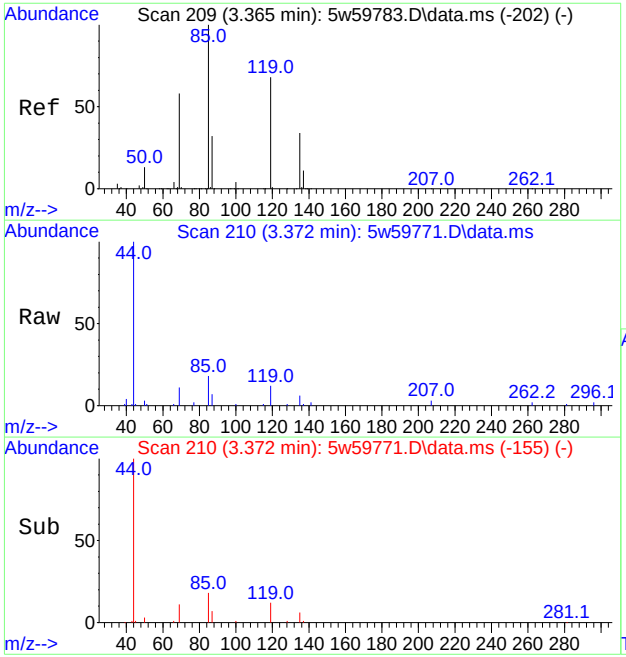
7.7.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

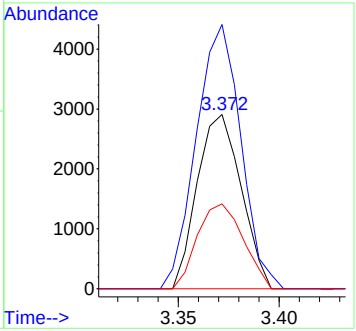


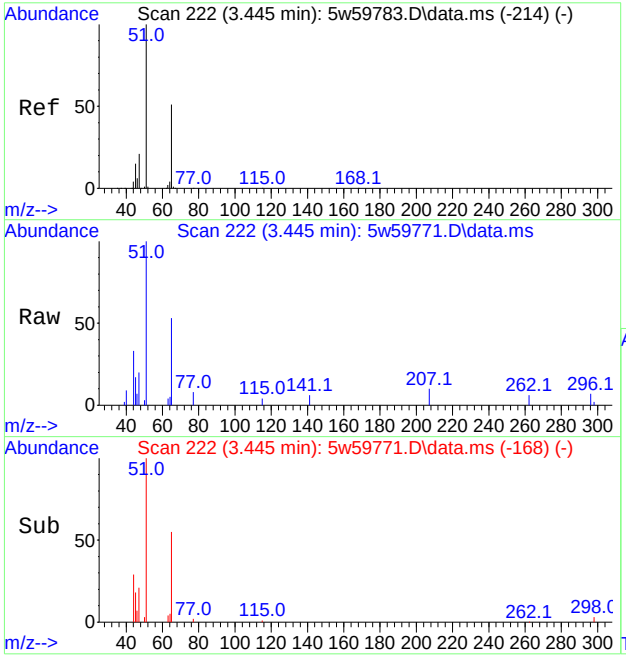


#2
FREON 115
Concen: 0.12 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:119 Resp: 4412

Ion	Ratio	Lower	Upper
119	100		
85	153.9	116.2	176.2
135	50.8	20.6	80.6

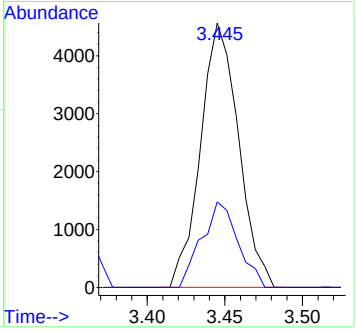


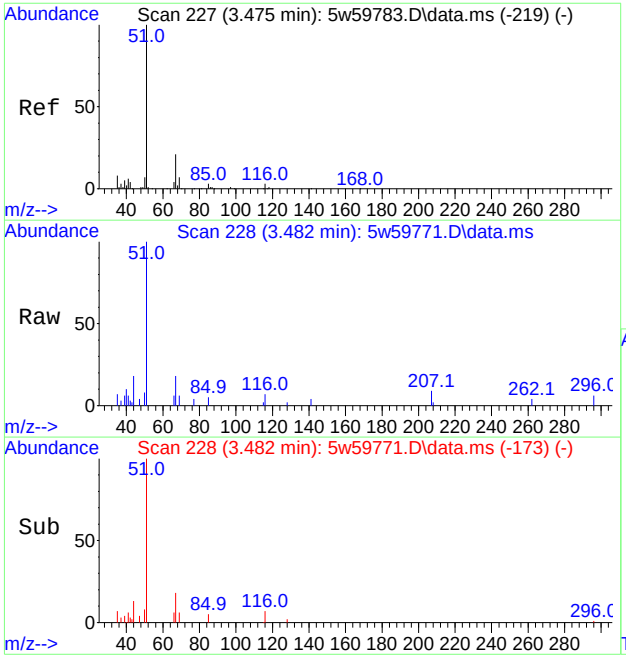


#3
FREON 152A
Concen: 0.24 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 7777

Ion	Ratio	Lower	Upper
65	100		
45	30.9	0.0	60.0

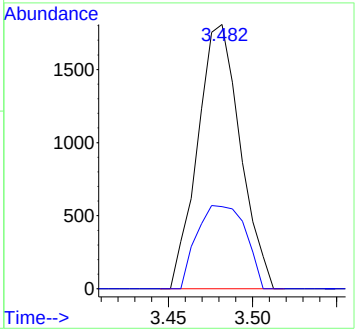


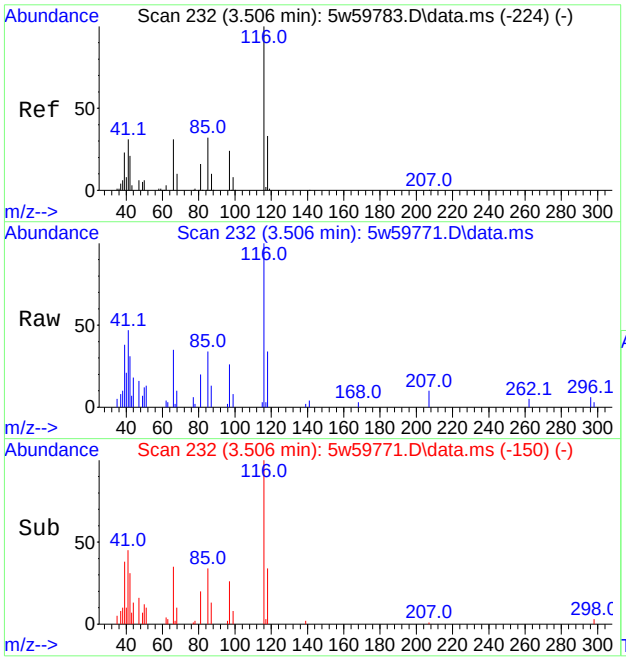


#4
CHLORODIFLUOROMETHANE
Concen: 0.21 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 3190

Ion	Ratio	Lower	Upper
67	100		
69	31.1	1.0	61.0

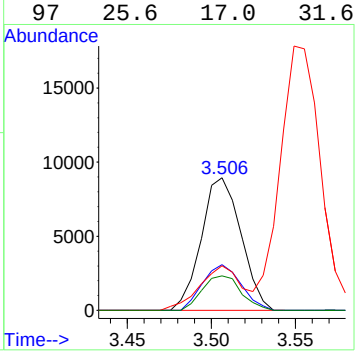


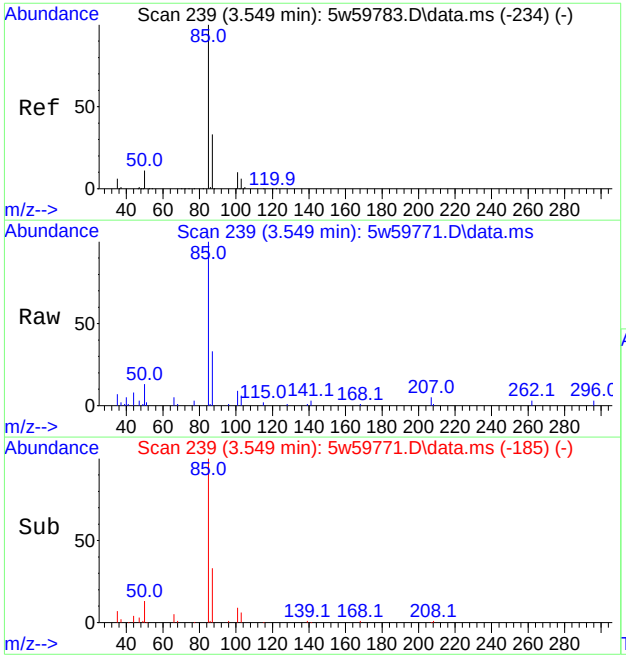


#5
CHLOROTRIFLUOROETHENE
Concen: 0.20 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:116 Resp: 14712

Ion	Ratio	Lower	Upper
116	100		
118	33.6	22.9	42.5
85	35.8	23.7	44.1
97	25.6	17.0	31.6

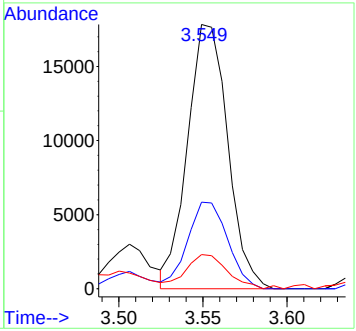


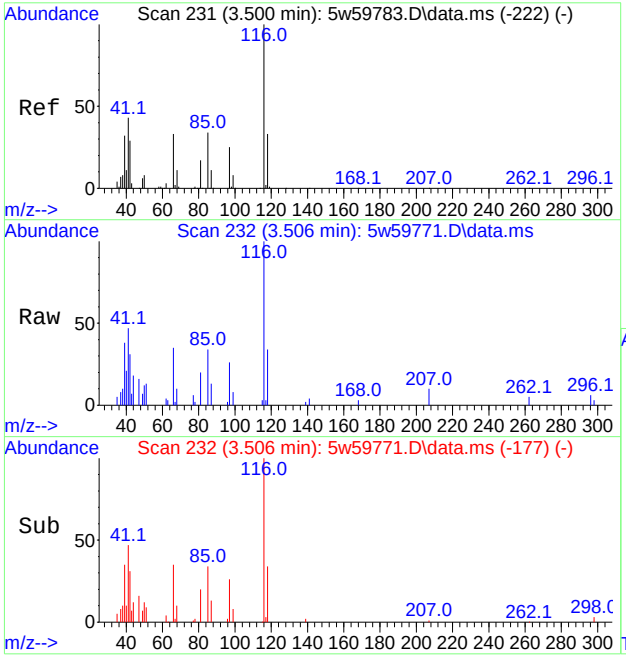


#6
DICHLORODIFLUOROMETHANE
Concen: 0.22 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 29673

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	13.3	0.0	41.7

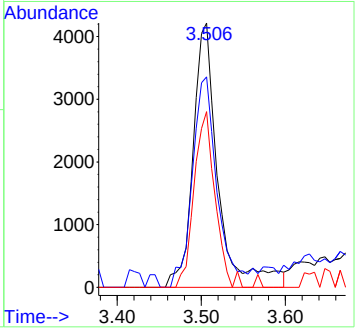


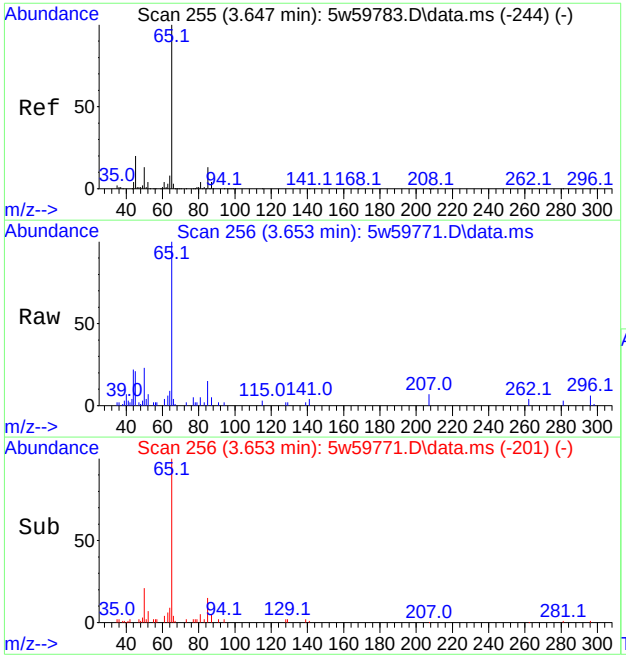


#7
PROPYLENE
Concen: 0.24 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 8750

Ion	Ratio	Lower	Upper
41	100		
39	85.7	45.1	105.1
42	55.7	36.3	96.3

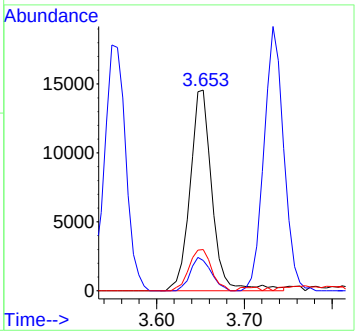


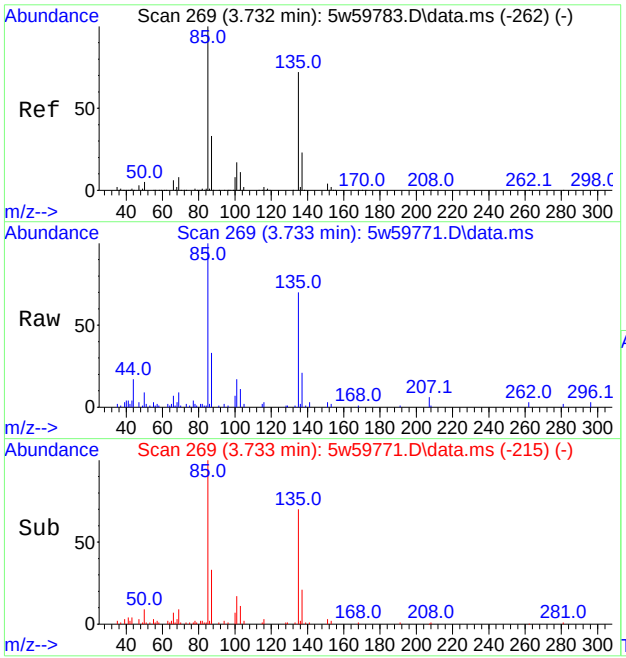


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.24 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 25496

Ion	Ratio	Lower	Upper
65	100		
85	15.6	11.5	21.3
45	21.1	14.0	26.0

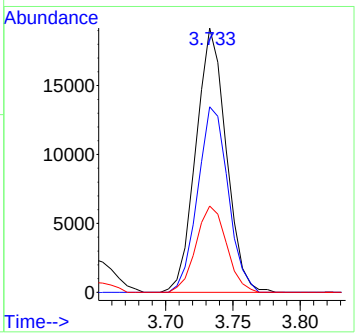


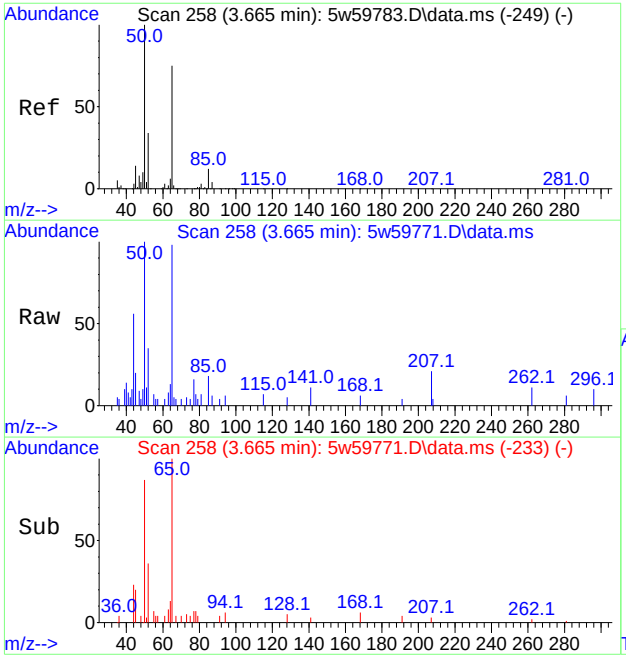


#9
FREON 114
Concen: 0.24 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 30048

Ion	Ratio	Lower	Upper
85	100		
135	70.7	40.5	100.5
87	33.1	3.0	63.0

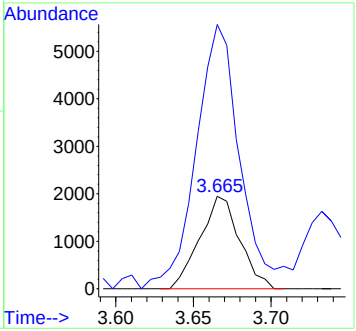


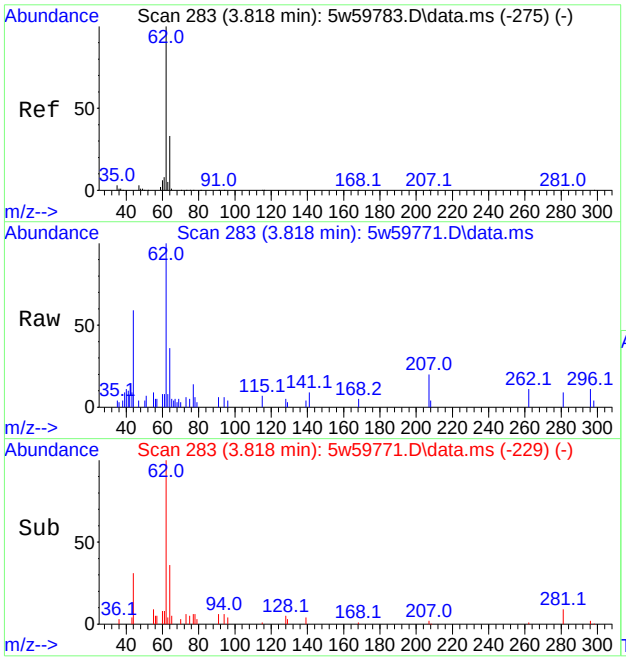


#10
CHLOROMETHANE
Concen: 0.25 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 3463

Ion	Ratio	Lower	Upper
52	100		
50	267.4	267.9	327.9#

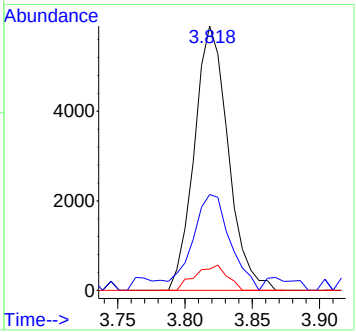


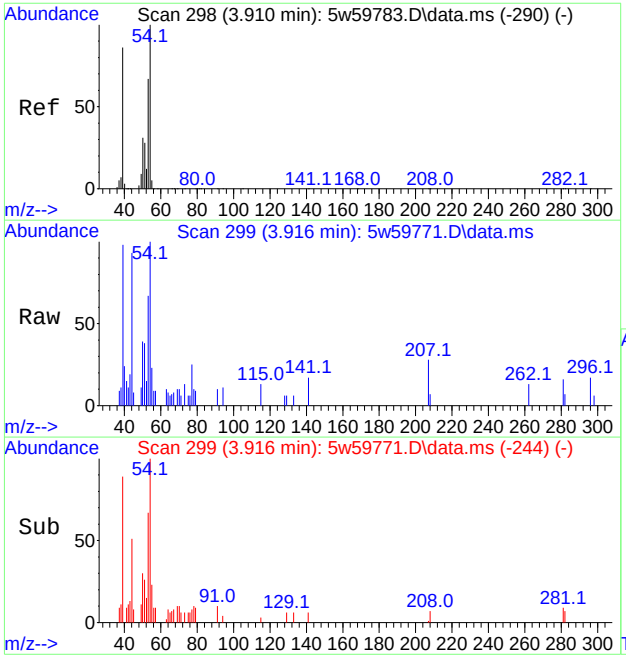


#11
VINYL CHLORIDE
Concen: 0.23 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 10347

Ion	Ratio	Lower	Upper
62	100		
64	39.8	3.6	63.6
61	9.1	0.0	38.2

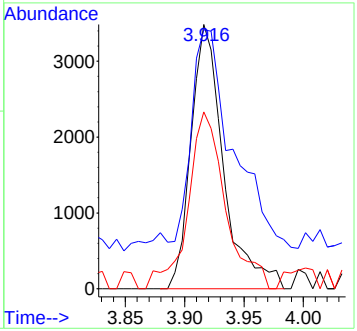


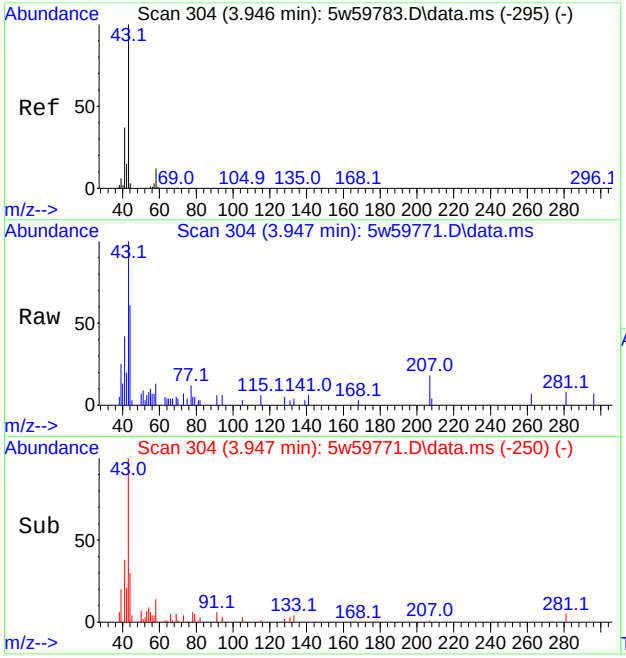


#12
1,3-BUTADIENE
Concen: 0.25 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 54 Resp: 6663

Ion	Ratio	Lower	Upper
54	100		
39	104.6	82.0	142.0
53	76.7	40.2	100.2

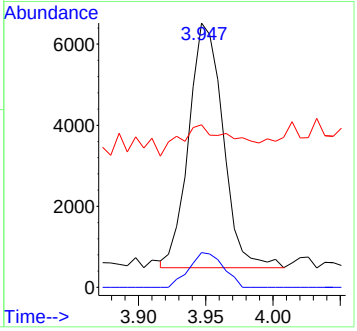


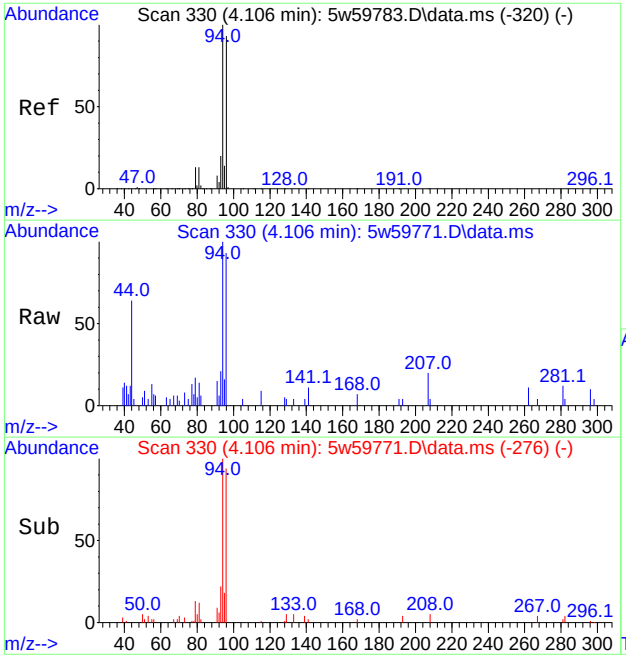


#13
n-BUTANE
Concen: 0.25 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 10741

Ion	Ratio	Lower	Upper
43	100		
58	14.2	0.0	42.6
44	0.0	0.0	34.9

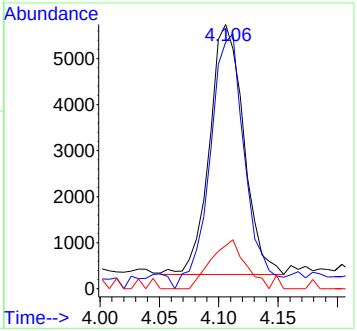


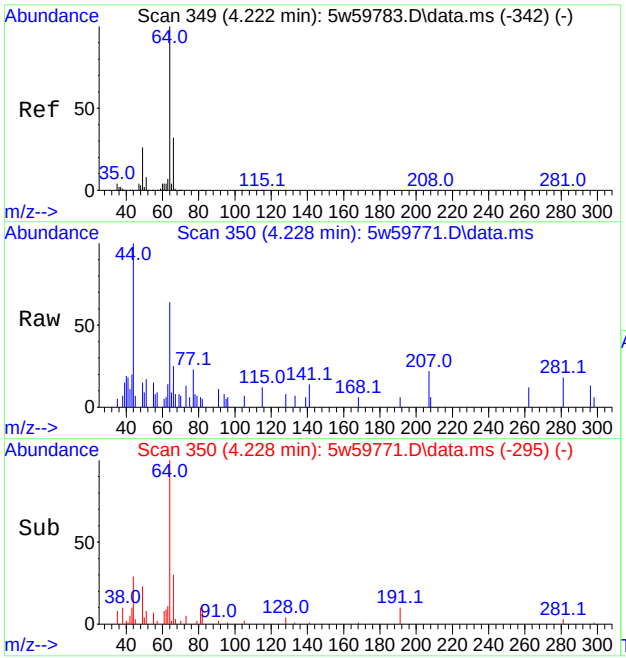


#14
BROMOMETHANE
Concen: 0.23 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 94 Resp: 10837

Ion	Ratio	Lower	Upper
94	100		
96	119.6	65.3	125.3
95	19.5	0.0	44.1

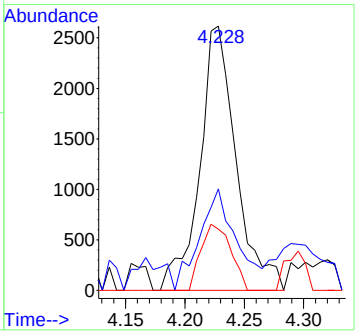


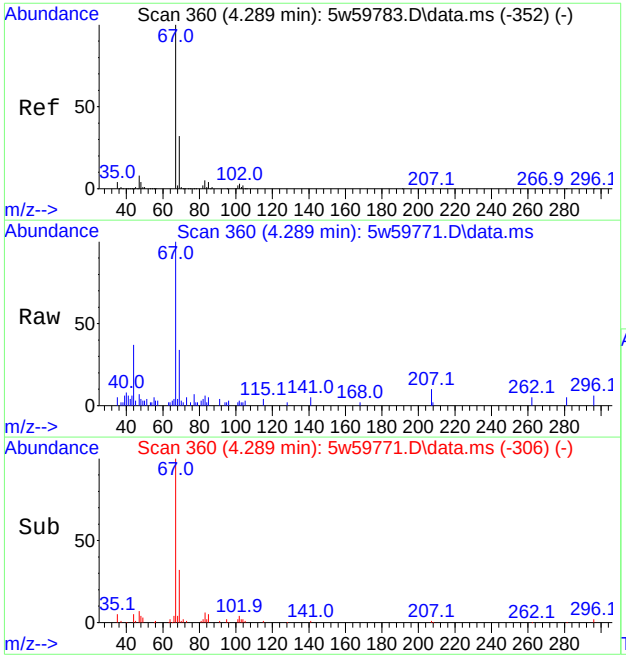


#15
CHLOROETHANE
Concen: 0.26 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 64 Resp: 5570

Ion	Ratio	Lower	Upper
64	100		
66	38.9	3.1	63.1
49	20.5	0.0	55.3

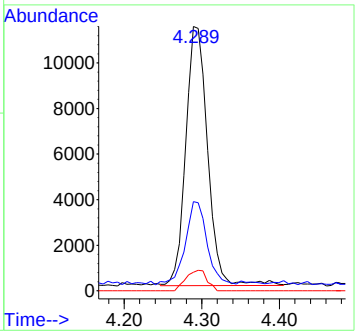


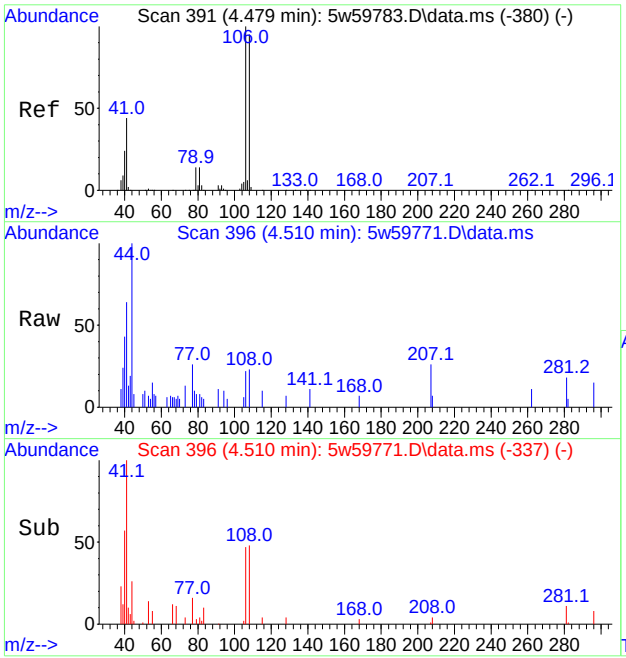


#16
DICHLOROFLUOROMETHANE
Concen: 0.23 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 22344

Ion	Ratio	Lower	Upper
67	100		
69	31.7	22.7	42.3
47	7.6	5.6	10.4

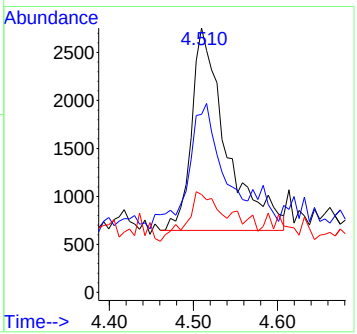


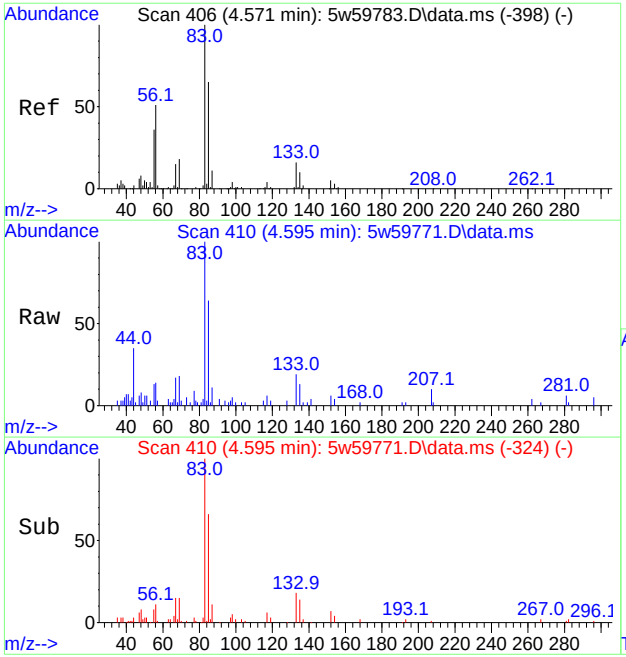


#17
ACETONITRILE
Concen: 0.24 PPBV
RT: 4.510 min Scan# 396
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 6047

Ion	Ratio	Lower	Upper
41	100		
40	72.0	37.9	70.5#
39	31.5	13.4	24.8#

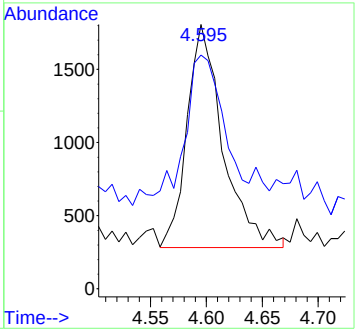


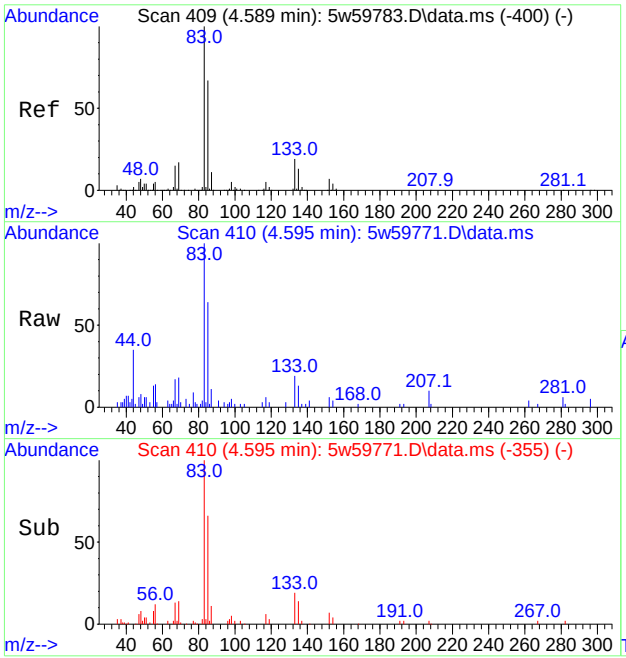


#18
ACROLEIN
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 56 Resp: 3414

Ion	Ratio	Lower	Upper
56	100		
55	99.6	46.6	86.6#

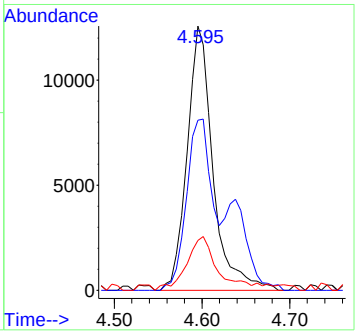


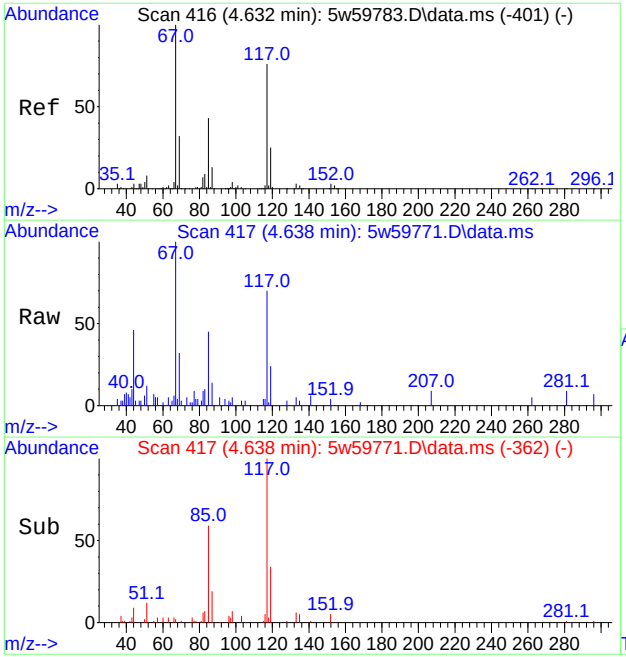


#19
FREON 123
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25775

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.0	94.0
133	26.8	0.0	50.7

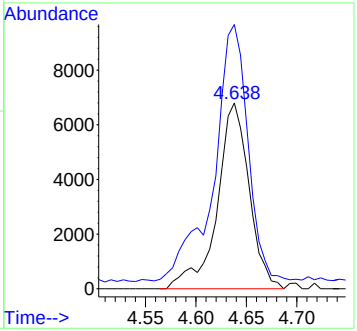


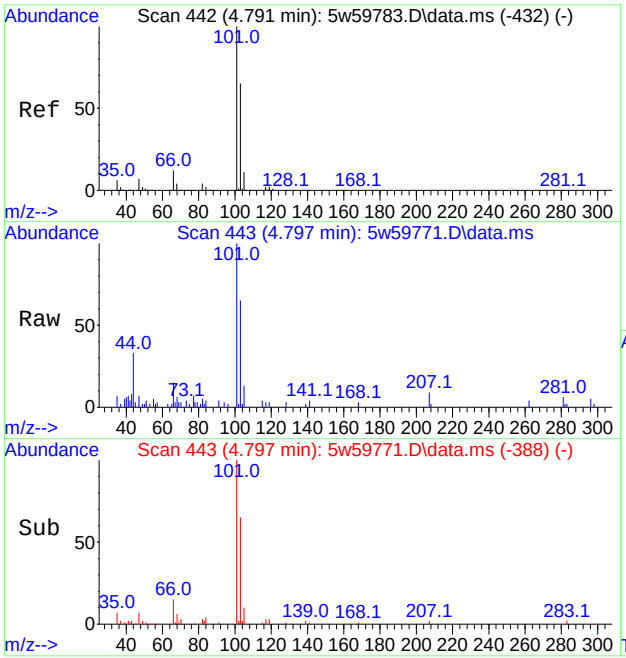


#20
FREON 123A
Concen: 0.23 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 14980

Ion	Ratio	Lower	Upper
117	100		
67	149.3	114.6	174.6

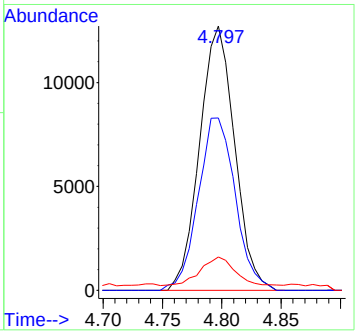


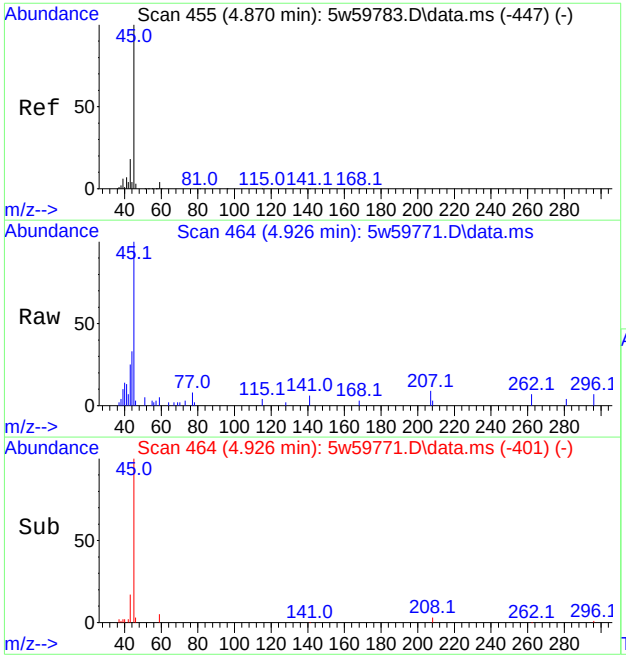


#21
TRICHLOROFLUOROMETHANE
Concen: 0.22 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:101 Resp: 26063

Ion	Ratio	Lower	Upper
101	100		
103	69.0	35.0	95.0
105	17.9	0.0	40.7

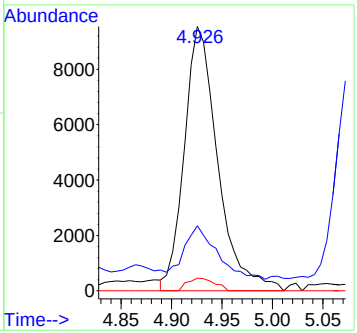


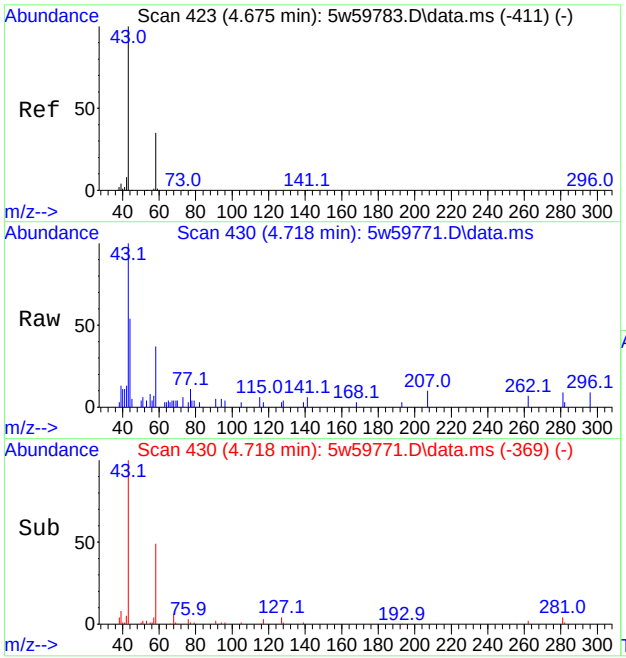


#22
ISOPROPYL ALCOHOL
Concen: 0.25 PPBV
RT: 4.926 min Scan# 464
Delta R.T. 0.056 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 22029

Ion	Ratio	Lower	Upper
45	100		
43	24.6	0.0	47.8
59	4.8	0.0	34.1

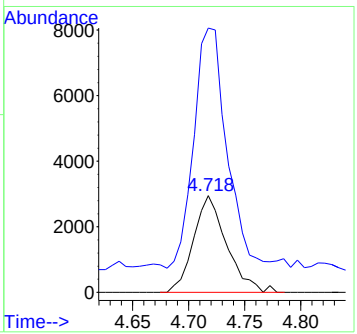


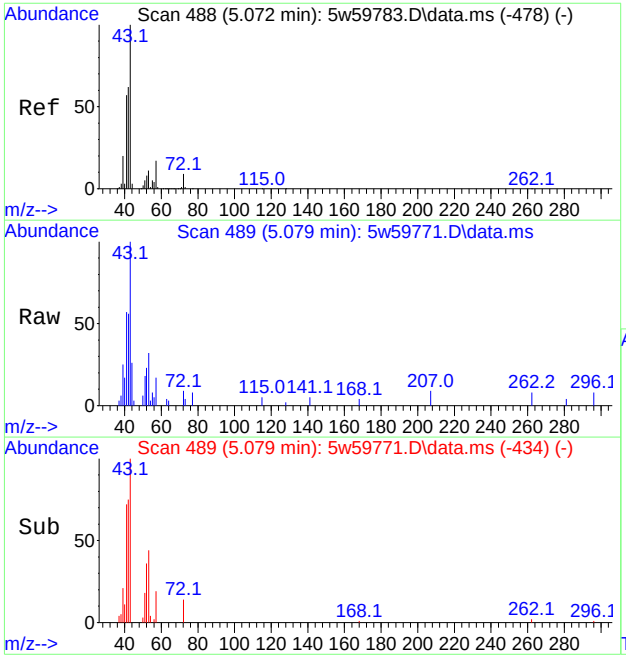


#23
ACETONE
Concen: 0.34 PPBV
RT: 4.718 min Scan# 430
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6066

Ion	Ratio	Lower	Upper
58	100		
43	283.0	252.3	312.3

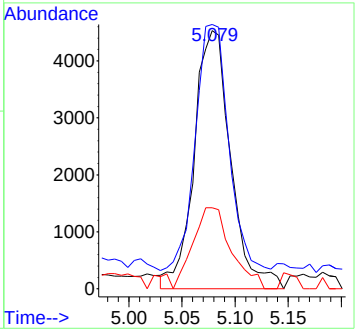


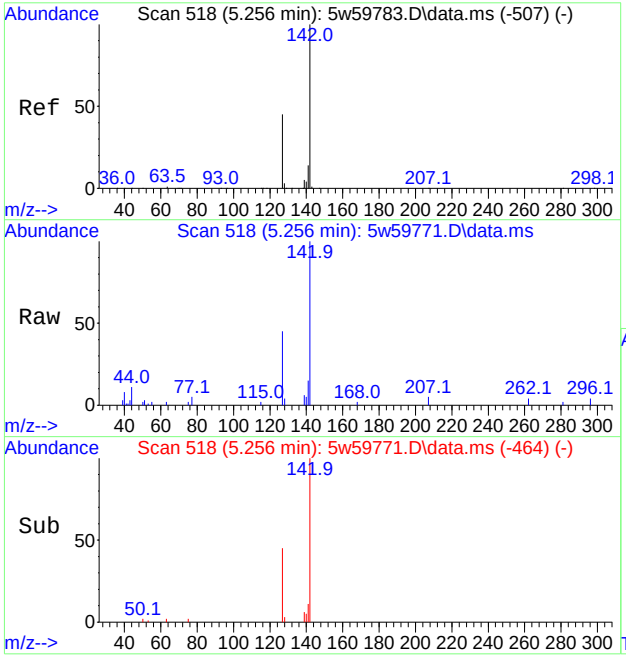


#24
PENTANE
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 42 Resp: 10859

Ion	Ratio	Lower	Upper
42	100		
41	86.3	62.3	122.3
57	32.8	0.0	57.7

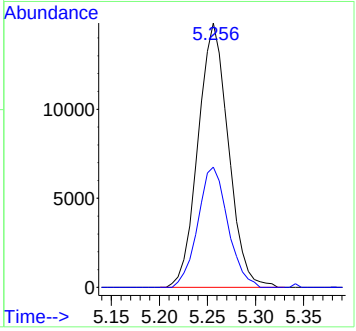


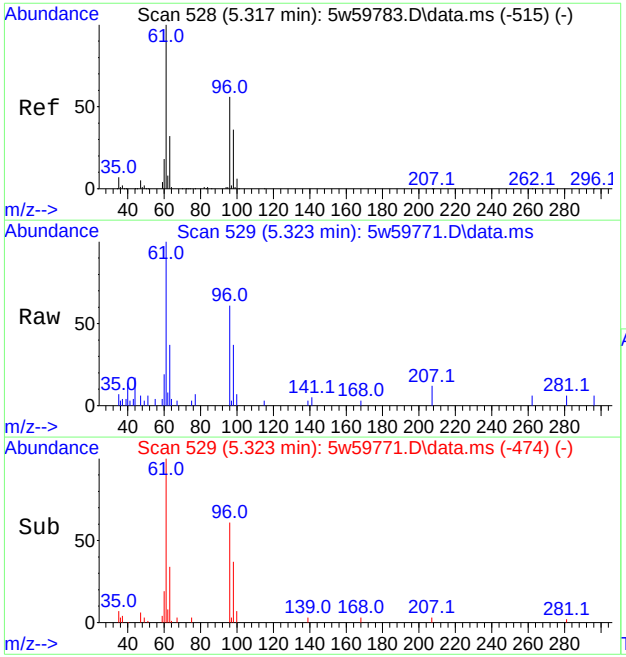


#25
IODOMETHANE
Concen: 0.22 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:142 Resp: 32697

Ion	Ratio	Lower	Upper
142	100		
127	45.0	16.0	76.0

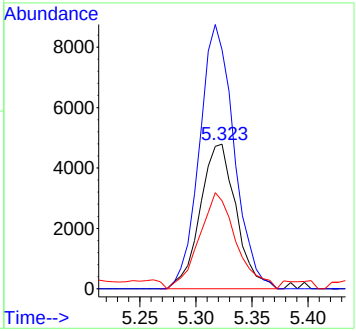


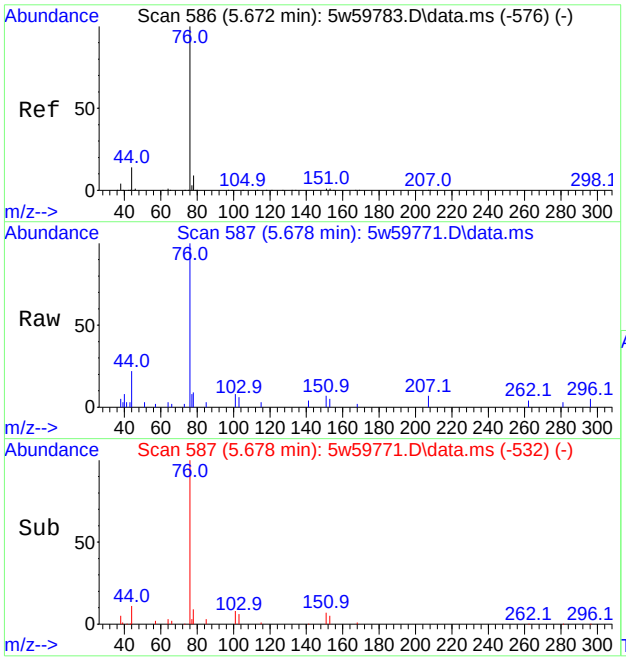


#26
1,1-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 10700

Ion	Ratio	Lower	Upper
96	100		
61	175.5	148.5	208.5
63	67.6	27.4	87.4

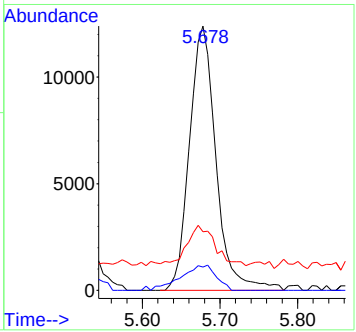


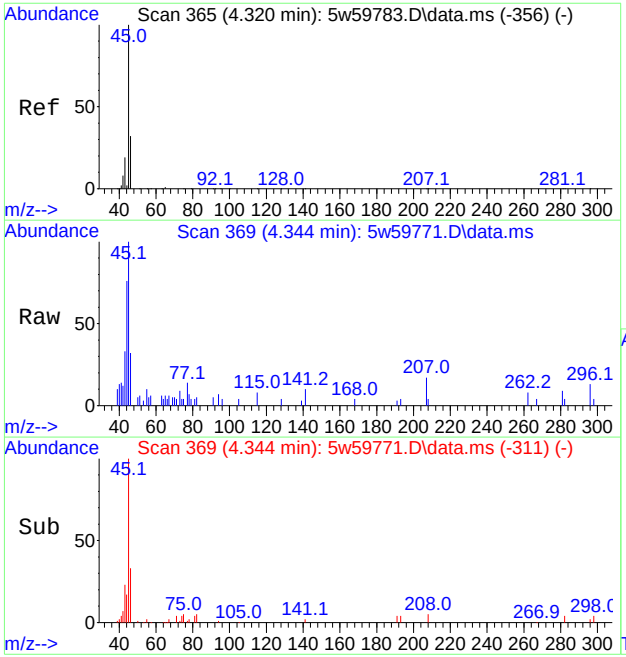


#27
CARBON DISULFIDE
Concen: 0.22 PPBV
RT: 5.678 min Scan# 587
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 29507

Ion	Ratio	Lower	Upper
76	100		
78	12.8	0.0	41.5
44	19.7	0.0	44.6

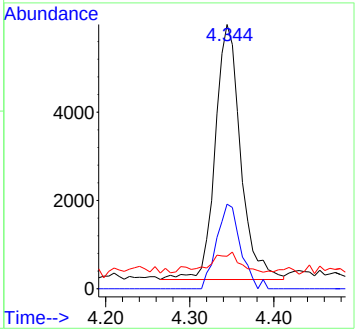


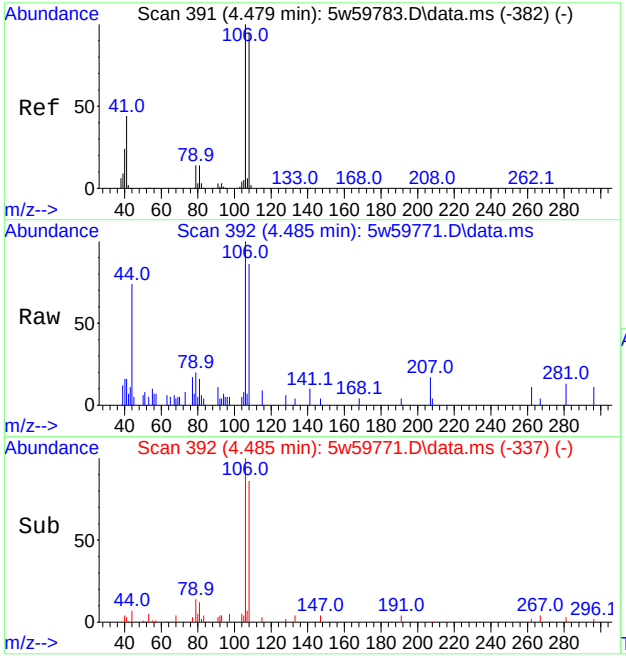


#28
ETHANOL
Concen: 0.73 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 12121

Ion	Ratio	Lower	Upper
45	100		
46	31.3	2.0	62.0
42	10.3	0.0	38.5

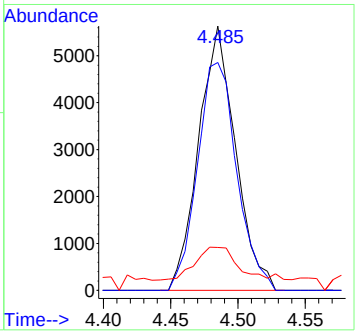


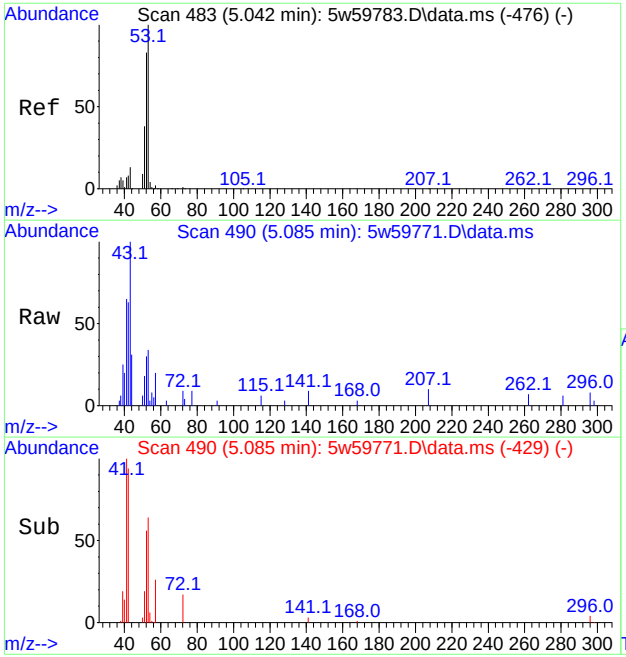


#29
BROMOETHENE
Concen: 0.22 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 10750

Ion	Ratio	Lower	Upper
106	100		
108	92.0	65.6	125.6
81	28.2	0.0	43.9

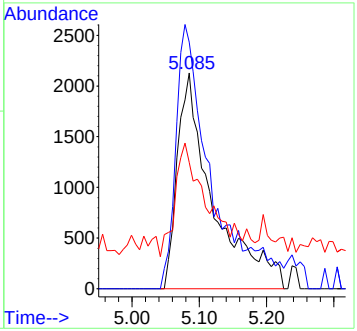


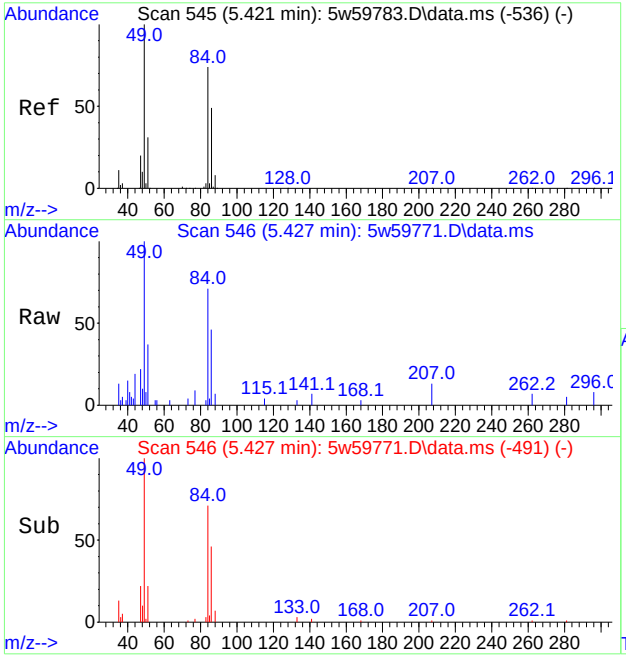


#30
ACRYLONITRILE
Concen: 0.26 PPBV
RT: 5.085 min Scan# 490
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 7876

Ion	Ratio	Lower	Upper
52	100		
53	128.6	85.8	159.4
51	50.1	32.3	60.1

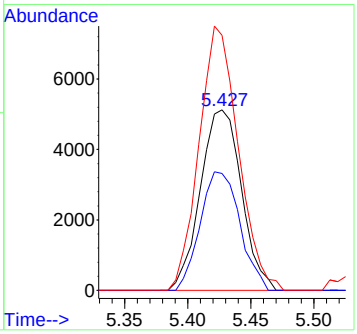


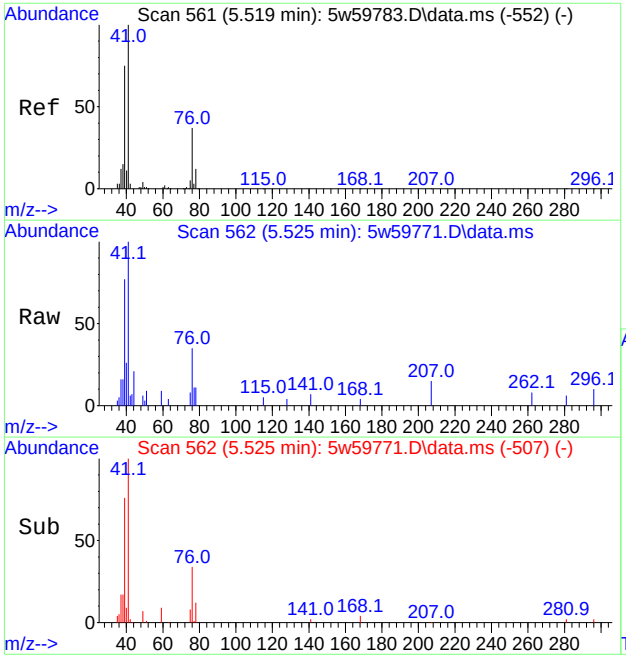


#31
METHYLENE CHLORIDE
Concen: 0.27 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 11602

Ion	Ratio	Lower	Upper
84	100		
86	63.2	35.2	95.2
49	139.5	105.3	165.3

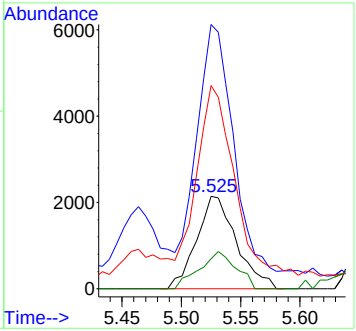


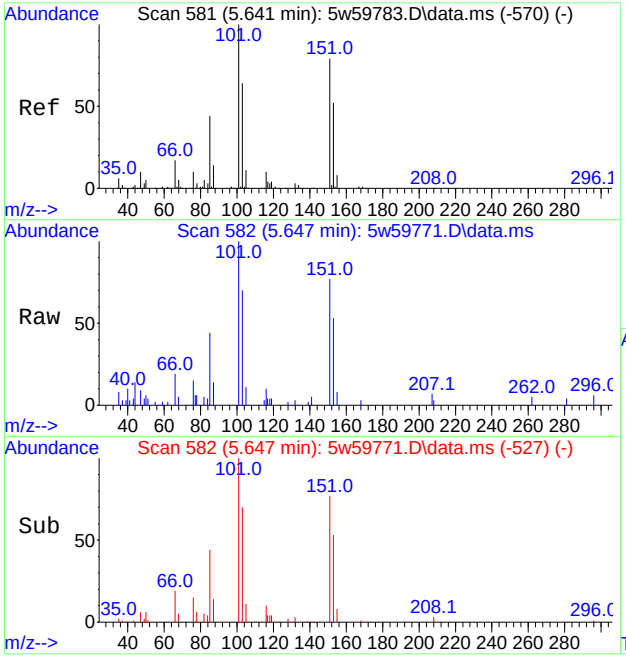


#32
3-CHLOROPROPENE
Concen: 0.22 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 4977

Ion	Ratio	Lower	Upper
76	100		
41	272.3	240.8	300.8
39	208.6	173.6	233.6
78	37.2	2.8	62.8

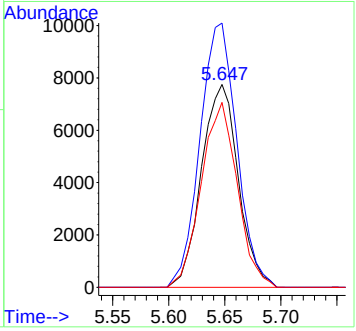


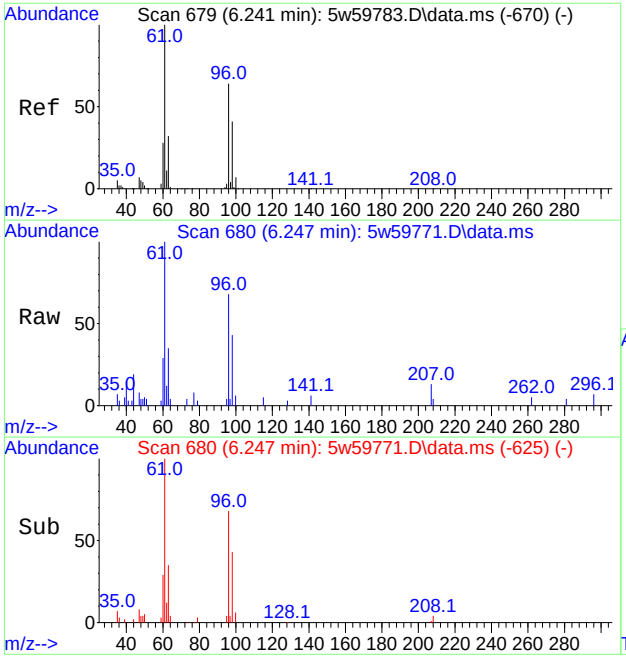


#33
FREON 113
Concen: 0.21 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:151 Resp: 17747

Ion	Ratio	Lower	Upper
151	100		
101	130.5	97.5	157.5
103	89.3	52.5	112.5

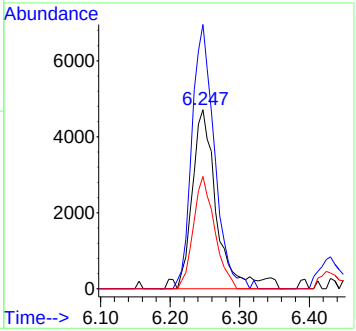


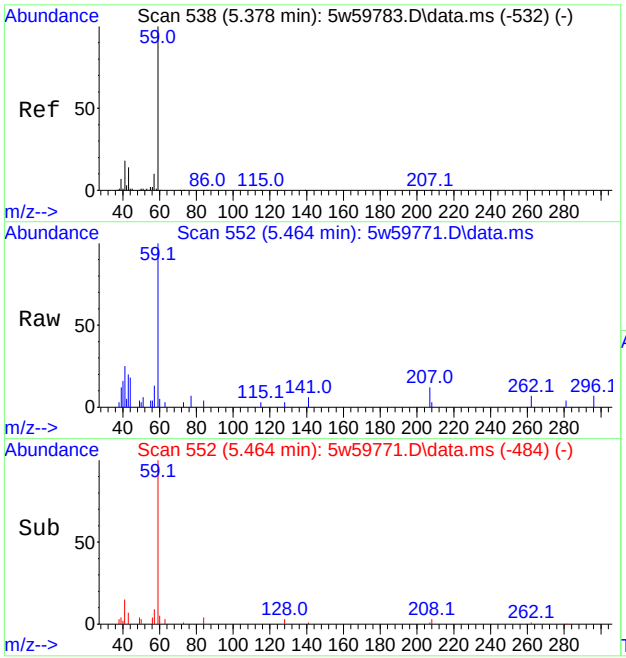


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 11590

Ion	Ratio	Lower	Upper
96	100		
61	135.4	126.4	186.4
98	54.1	34.1	94.1

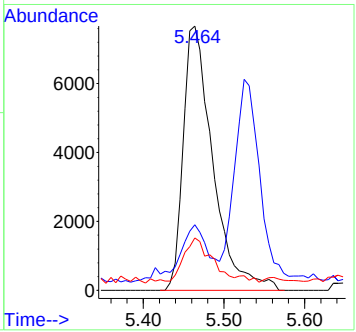


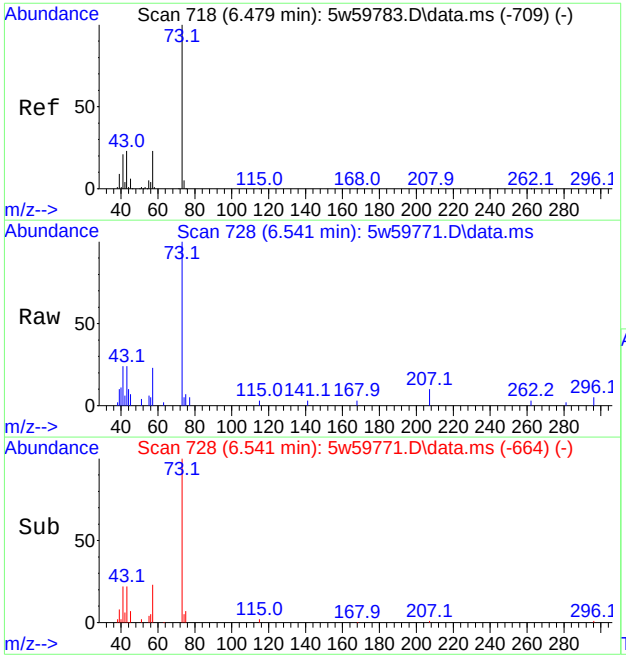


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.20 PPBV
RT: 5.464 min Scan# 552
Delta R.T. 0.086 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 19541

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	16.8	0.0	44.1

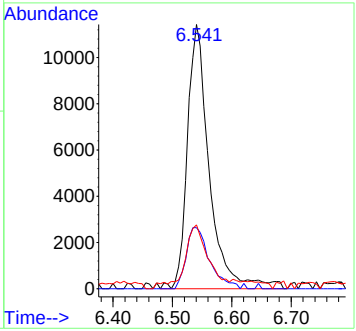


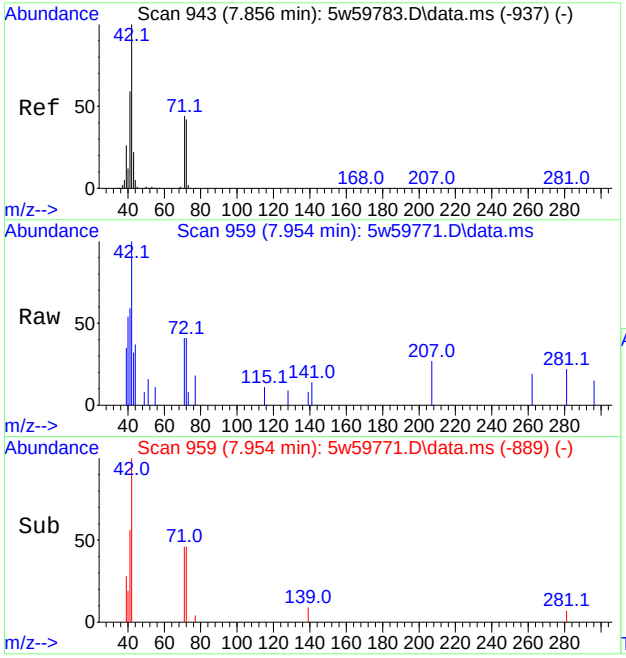


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.23 PPBV
RT: 6.541 min Scan# 728
Delta R.T. 0.062 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 73 Resp: 29335

Ion	Ratio	Lower	Upper
73	100		
57	24.5	0.0	53.1
41	30.1	0.0	50.6

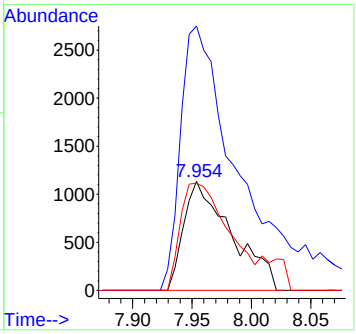


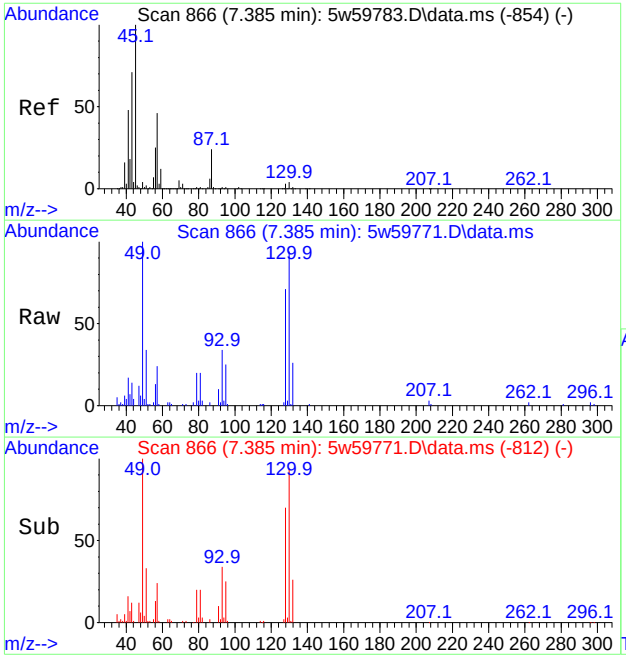


#37
TETRAHYDROFURAN
Concen: 0.16 PPBV
RT: 7.954 min Scan# 959
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 3172

Ion	Ratio	Lower	Upper
72	100		
42	320.8	202.4	262.4#
71	114.2	71.1	131.1

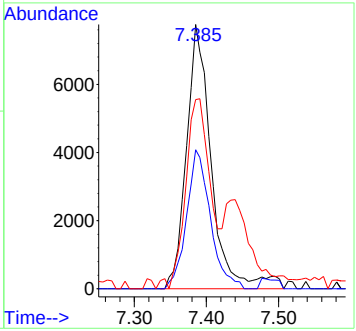


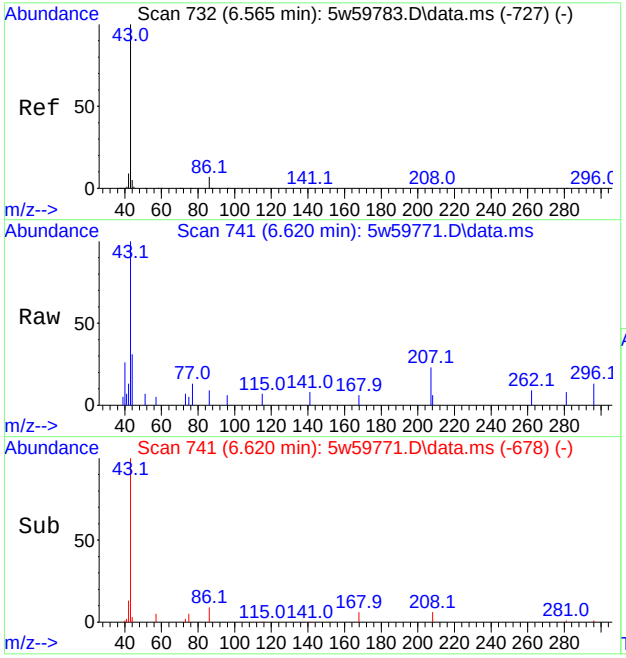


#38
HEXANE
Concen: 0.26 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18650

Ion	Ratio	Lower	Upper
57	100		
56	50.0	25.9	85.9
41	73.1	74.7	134.7#

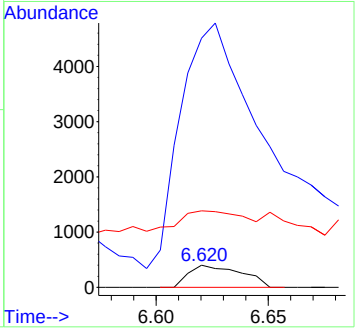


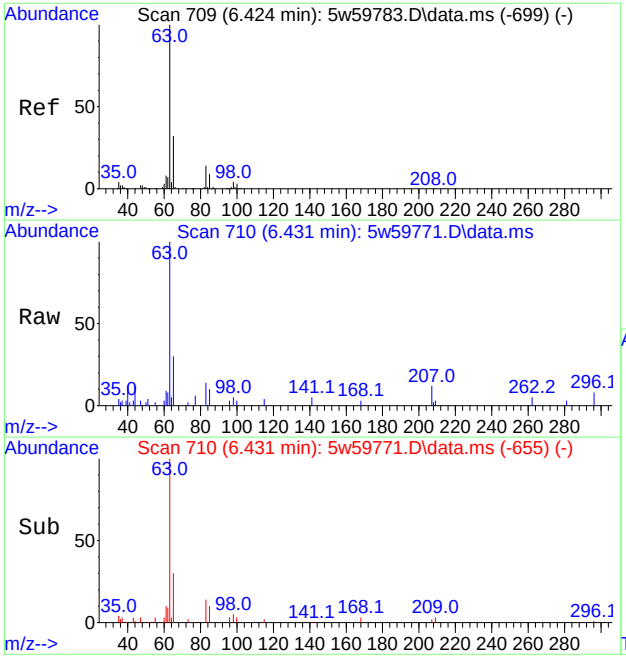


#39
VINYL ACETATE
Concen: 0.09 PPBV
RT: 6.620 min Scan# 741
Delta R.T. 0.055 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 86 Resp: 653

Ion	Ratio	Lower	Upper
86	100		
43	2548.1	1379.7	1439.7#
44	190.8	36.9	96.9#

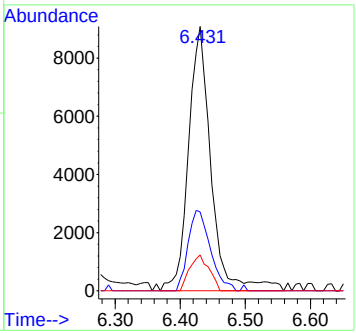


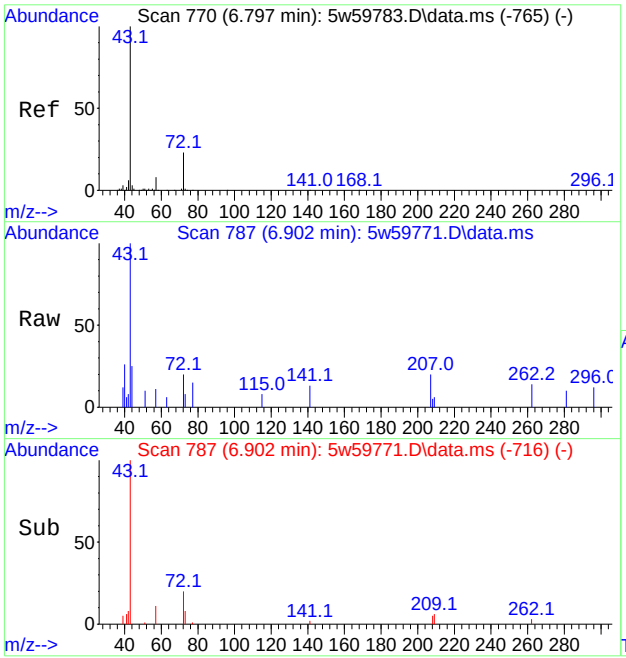


#40
1,1-DICHLOROETHANE
Concen: 0.23 PPBV
RT: 6.431 min Scan# 710
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 21909

Ion	Ratio	Lower	Upper
63	100		
65	30.0	1.7	61.7
83	11.7	0.0	43.5

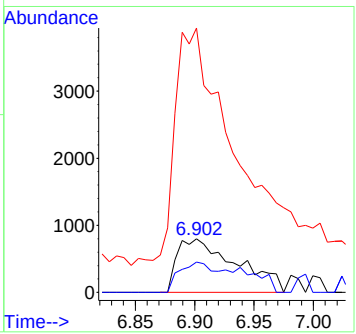


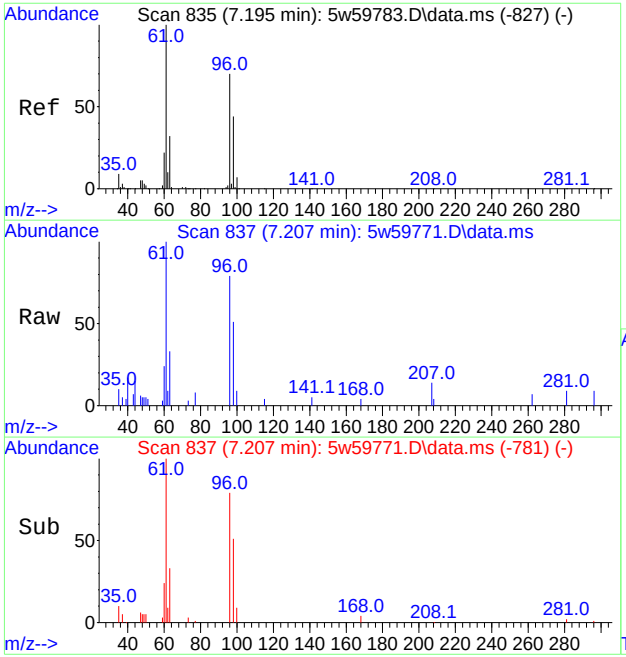


#41
METHYL ETHYL KETONE
Concen: 0.14 PPBV
RT: 6.902 min Scan# 787
Delta R.T. 0.105 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 2781

Ion	Ratio	Lower	Upper
72	100		
57	56.4	4.8	64.8
43	493.5	415.9	475.9#

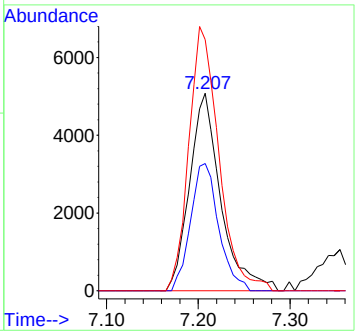


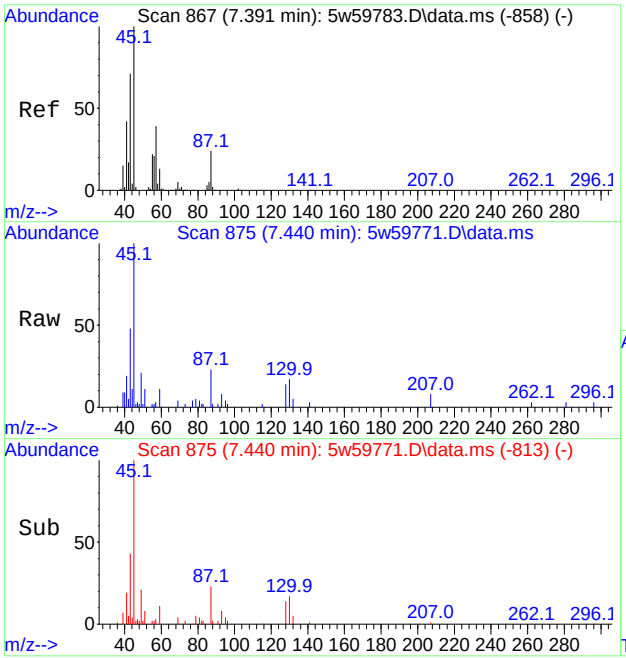


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 12027

Ion	Ratio	Lower	Upper
96	100		
98	58.2	34.0	94.0
61	128.8	111.5	171.5

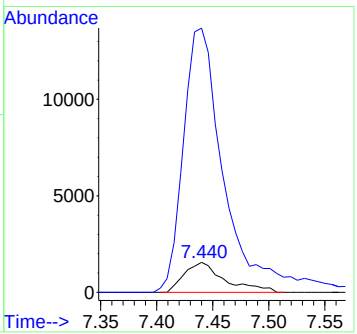


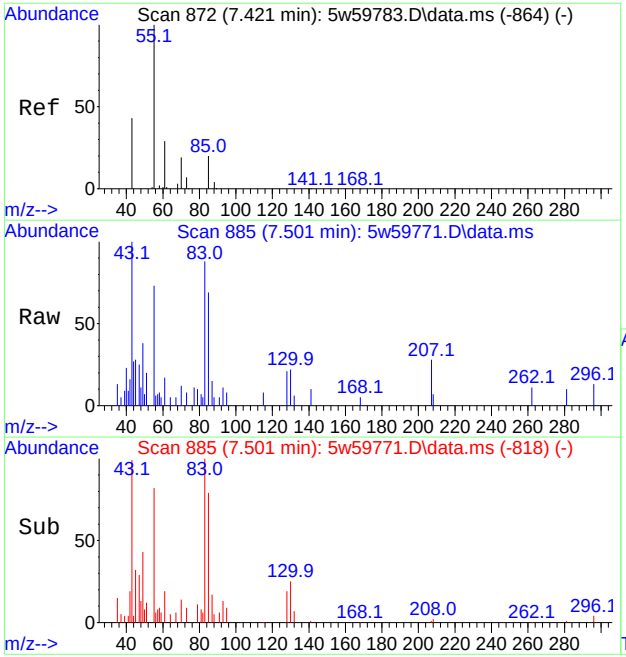


#43
DIISOPROPYL ETHER
Concen: 0.18 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.049 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 3909

Ion	Ratio	Lower	Upper
59	100		
45	923.5	720.9	780.9#

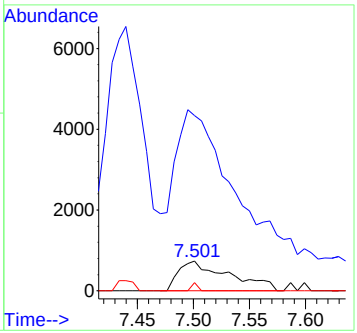


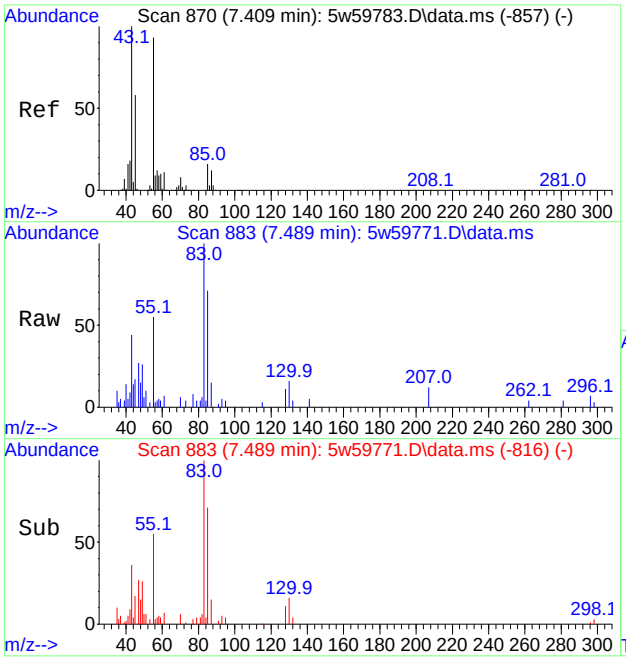


#44
ETHYL ACETATE
Concen: 0.15 PPBV m
RT: 7.501 min Scan# 885
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 61 Resp: 2309

Ion	Ratio	Lower	Upper
61	100		
43	613.1	560.5	620.5
88	3.2	4.5	64.5#

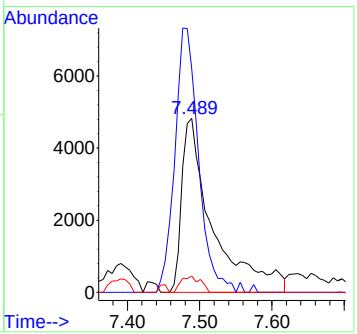


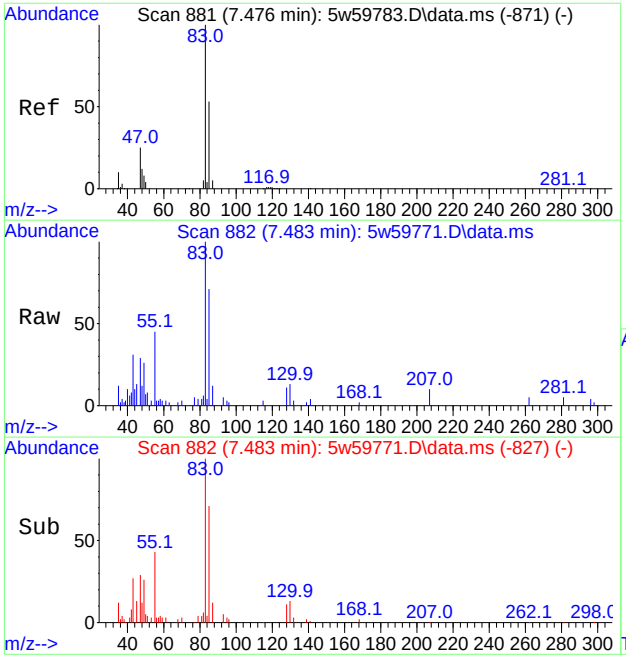


#45
METHYL ACRYLATE
Concen: 0.17 PPBV m
RT: 7.489 min Scan# 883
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 14366

Ion	Ratio	Lower	Upper
55	100		
85	116.3	10.9	20.3#
58	5.8	9.4	17.6#

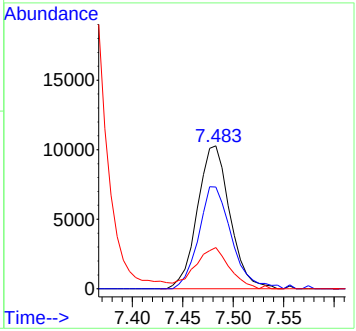


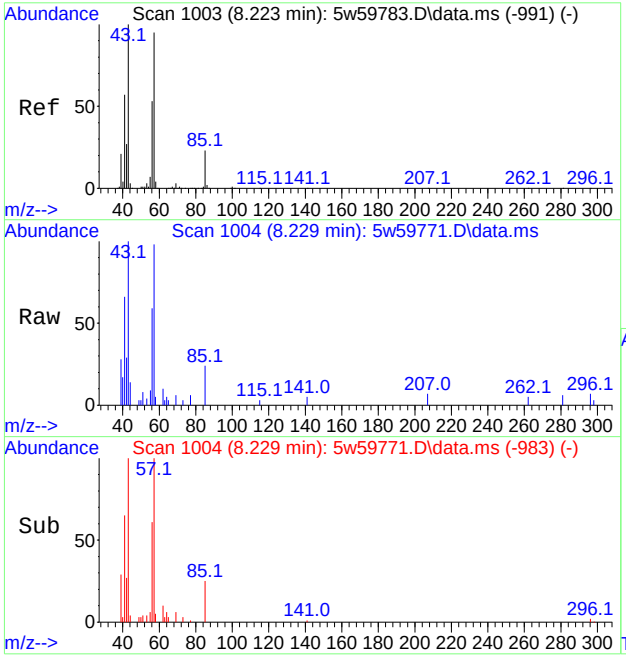


#46
CHLOROFORM
Concen: 0.22 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 23090

Ion	Ratio	Lower	Upper
83	100		
85	72.4	35.6	95.6
47	30.7	0.0	55.2

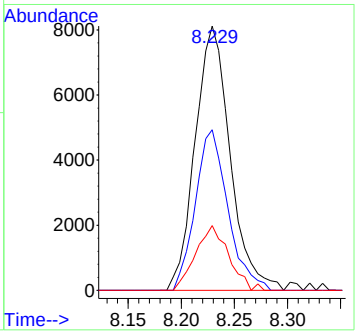


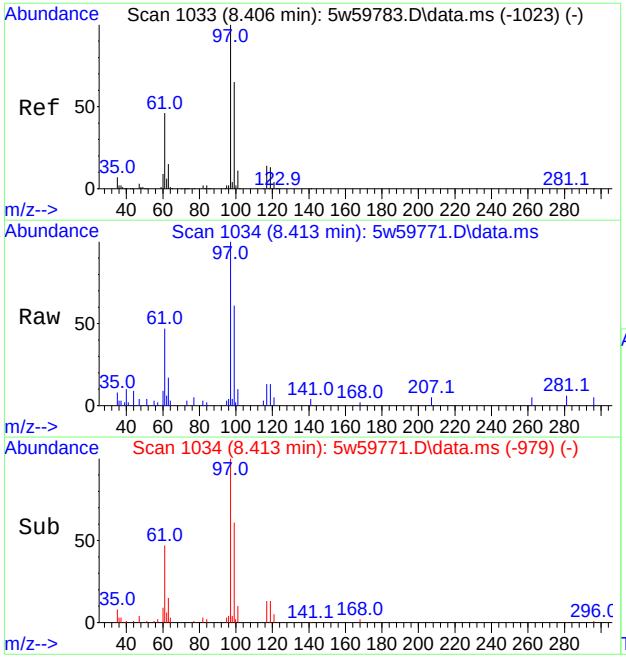


#47
2,4-DIMETHYLPENTANE
Concen: 0.22 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18643

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.1	0.0	53.8

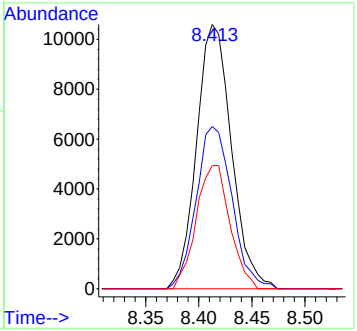


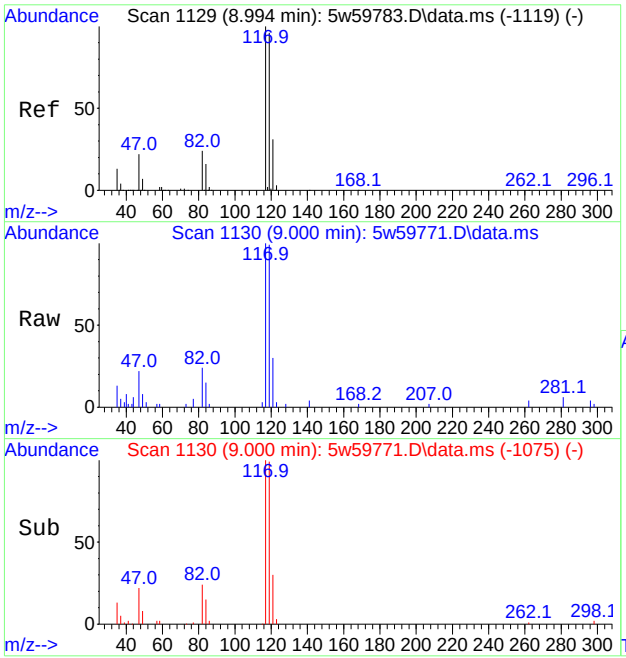


#48
1,1,1-TRICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 97 Resp: 24304

Ion	Ratio	Lower	Upper
97	100		
99	62.9	34.8	94.8
61	44.9	15.8	75.8

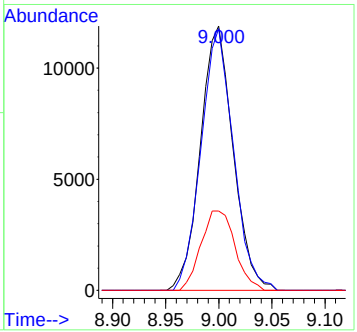


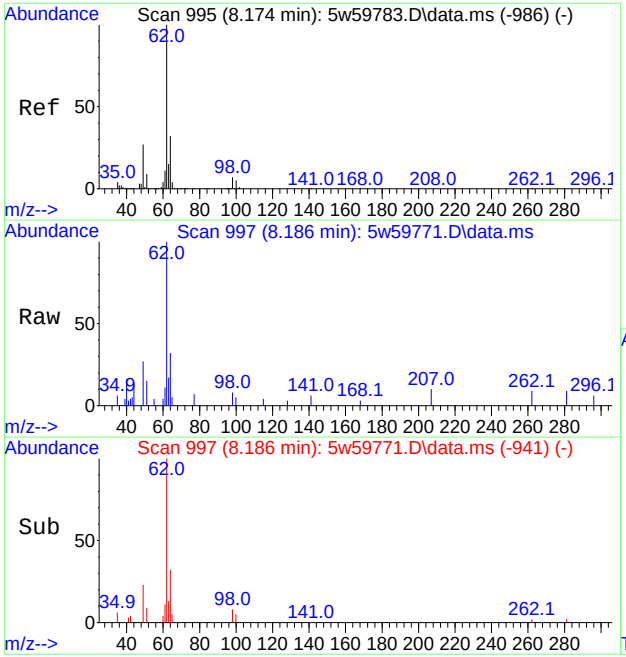


#49
CARBON TETRACHLORIDE
Concen: 0.21 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 25552

Ion	Ratio	Lower	Upper
117	100		
119	97.5	66.9	126.9
121	31.2	1.3	61.3

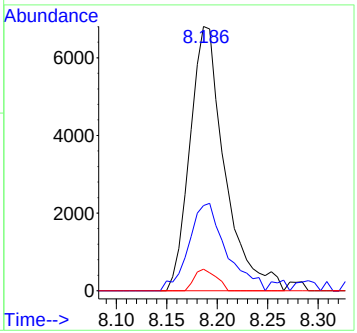


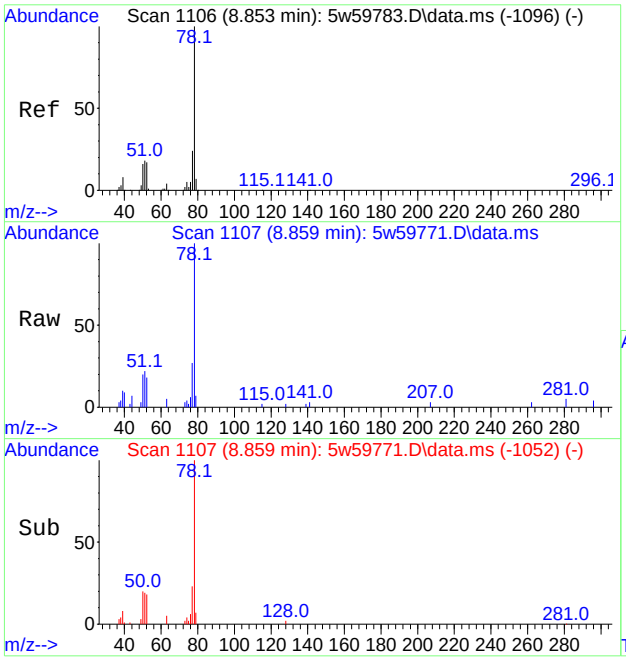


#50
1,2-DICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 16304

Ion	Ratio	Lower	Upper
62	100		
64	35.5	2.3	62.3
98	5.2	0.0	36.9

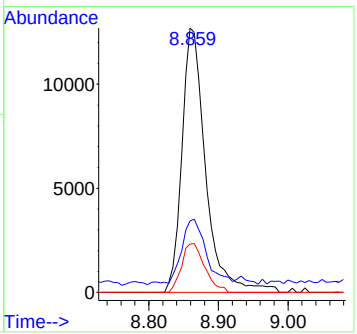


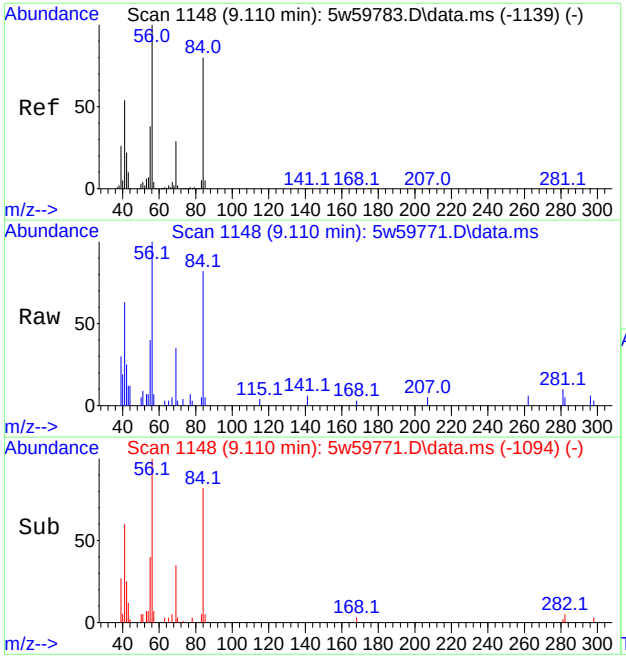


#52
BENZENE
Concen: 0.21 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 78 Resp: 30072

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	18.0	0.0	46.9

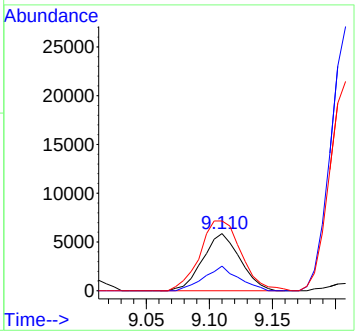


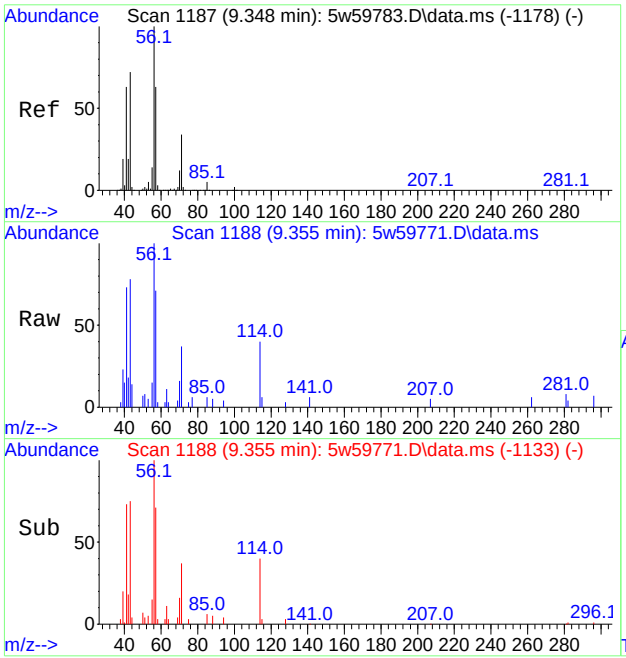


#53
CYCLOHEXANE
Concen: 0.20 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 12037

Ion	Ratio	Lower	Upper
84	100		
69	39.7	6.9	66.9
56	135.6	98.2	158.2

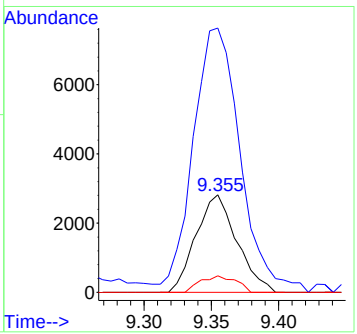


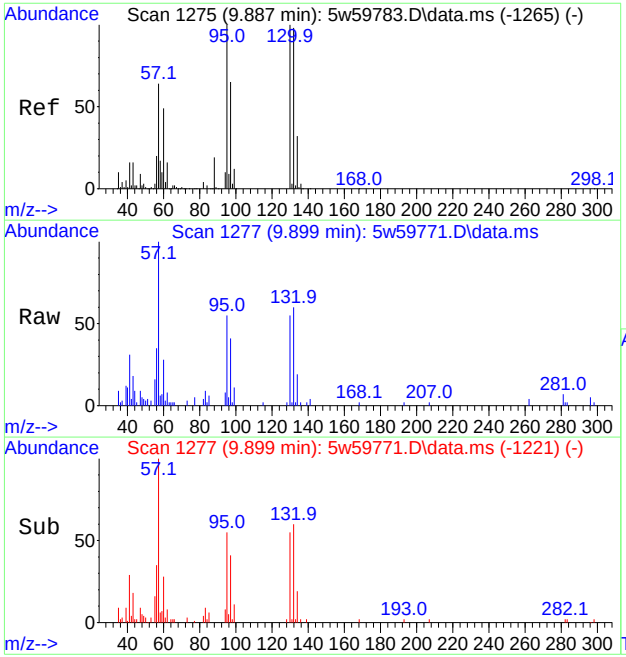


#54
2,3-DIMETHYLPENTANE
Concen: 0.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 71 Resp: 5961

Ion	Ratio	Lower	Upper
71	100		
56	313.5	264.6	324.6
85	14.8	0.0	45.3

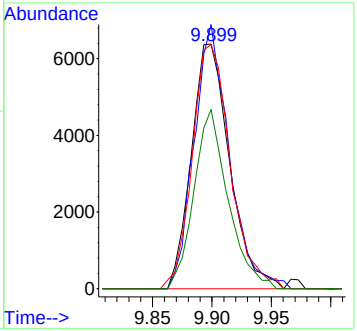


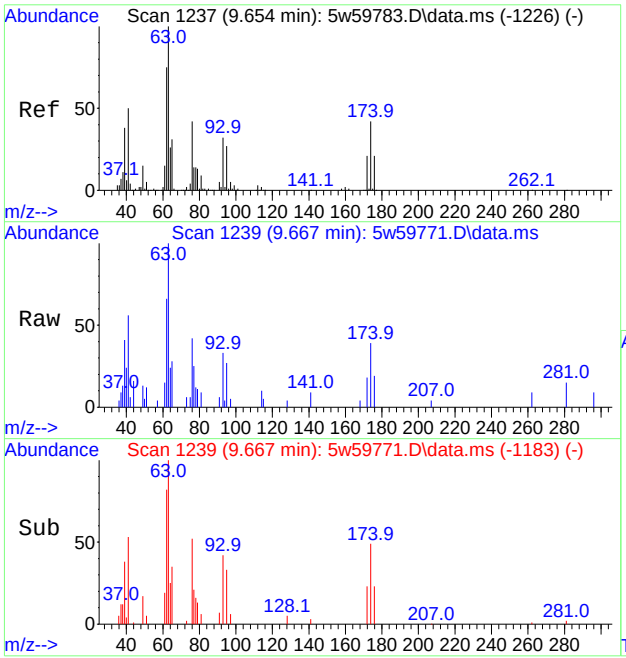


#55
TRICHLOROETHYLENE
Concen: 0.19 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 95 Resp: 14290

Ion	Ratio	Lower	Upper
95	100		
132	99.8	69.0	129.0
130	99.4	70.6	130.6
97	65.4	34.6	94.6

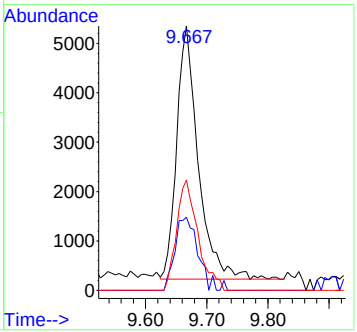


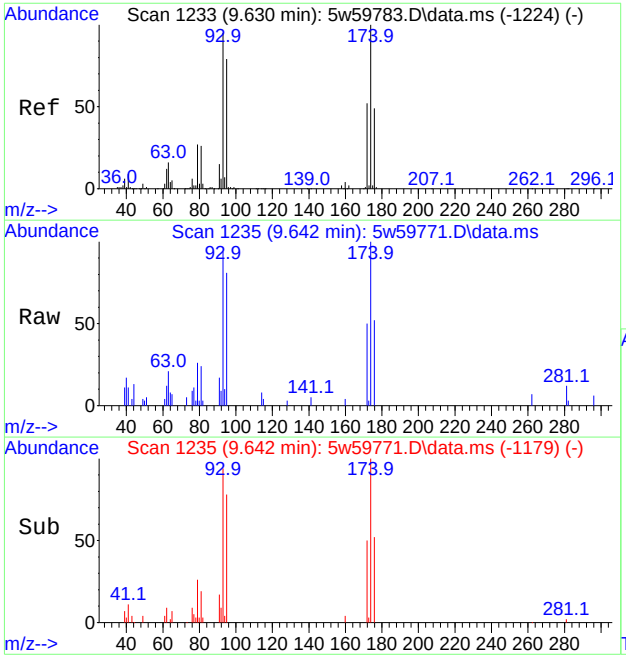


#56
1,2-DICHLOROPROPANE
Concen: 0.20 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 12562

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	43.0	11.5	71.5

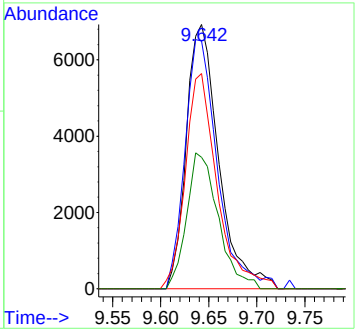


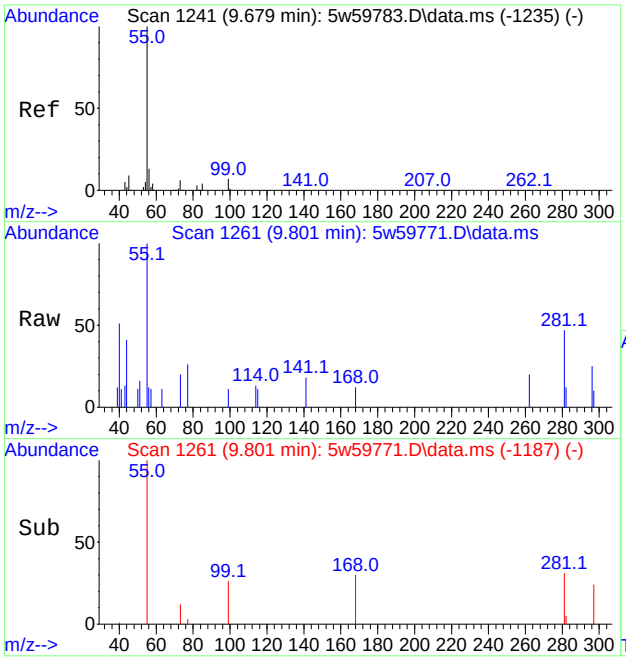


#57
DIBROMOMETHANE
Concen: 0.20 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:174 Resp: 16323

Ion	Ratio	Lower	Upper
174	100		
93	94.4	65.0	120.6
95	79.7	54.5	101.1
172	50.0	36.3	67.5

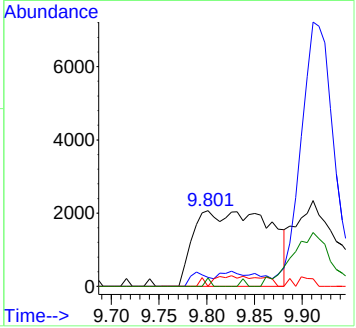


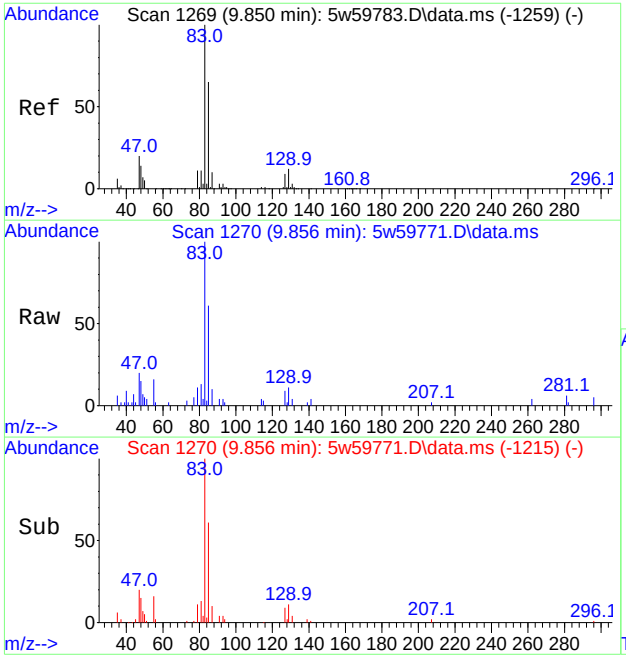


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV m
RT: 9.801 min Scan# 1261
Delta R.T. 0.122 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 11494

Ion	Ratio	Lower	Upper
55	100		
56	0.0	8.6	16.0#
45	0.0	6.6	12.2#
99	0.0	6.4	12.0#

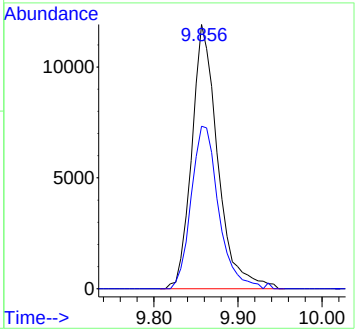


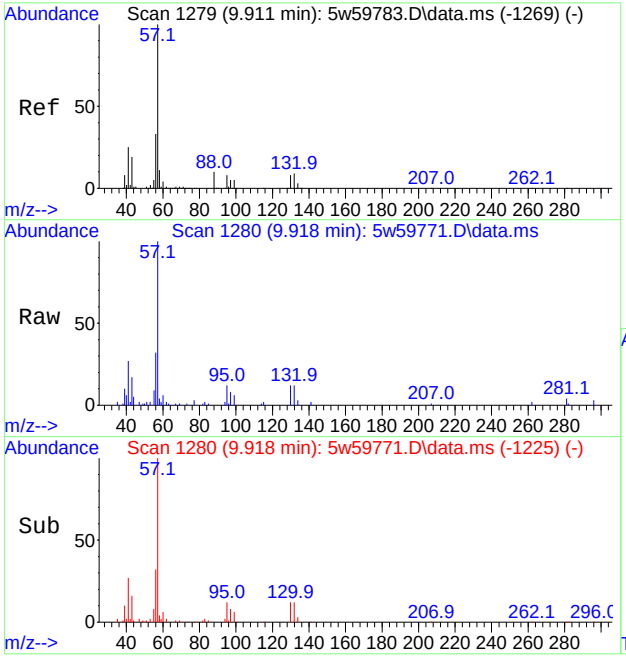


#59
BROMODICHLOROMETHANE
Concen: 0.20 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25637

Ion	Ratio	Lower	Upper
83	100		
85	64.9	33.4	93.4

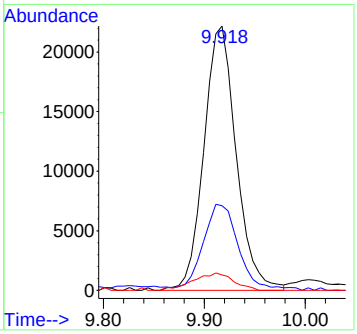


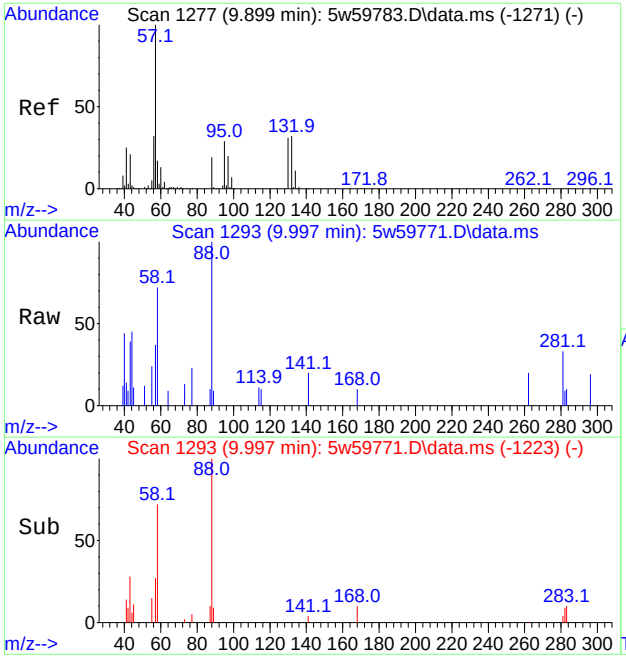


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 49437

Ion	Ratio	Lower	Upper
57	100		
56	35.7	2.5	62.5
99	8.3	0.0	37.3

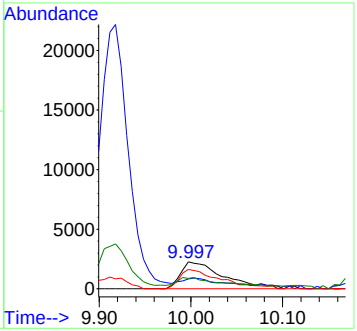


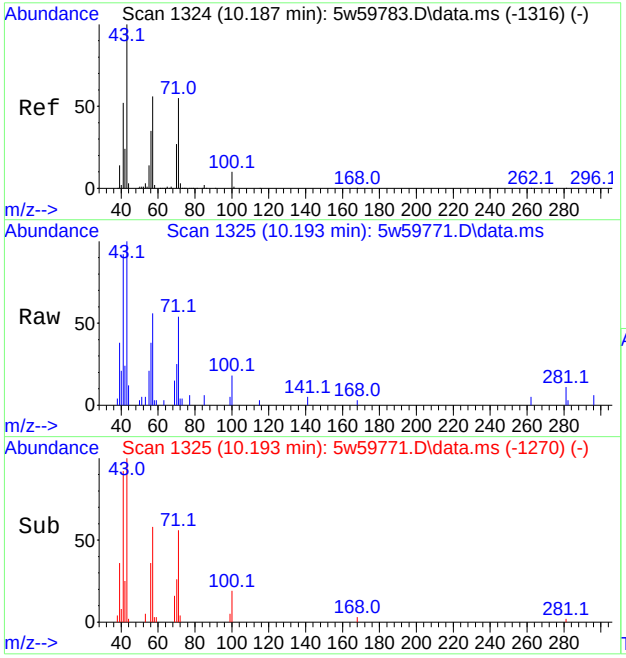


#61
1,4-DIOXANE
Concen: 0.22 PPBV
RT: 9.997 min Scan# 1293
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 88 Resp: 7396

Ion	Ratio	Lower	Upper
88	100		
57	36.9	494.2	554.2#
58	72.0	58.9	118.9
43	38.6	78.3	138.3#

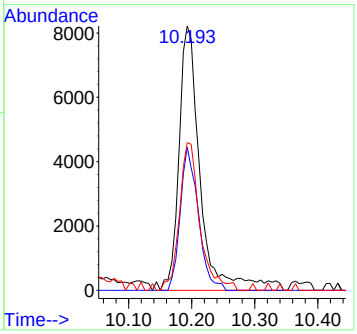


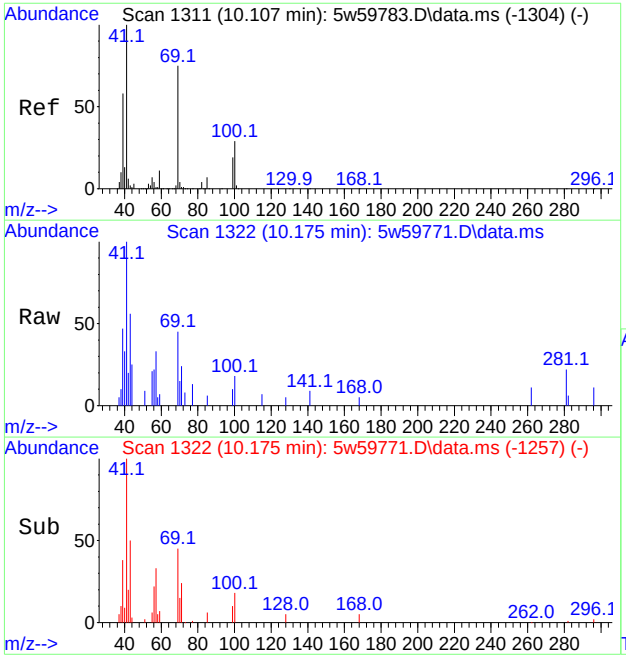


#62
HEPTANE
Concen: 0.24 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 19280

Ion	Ratio	Lower	Upper
43	100		
71	45.8	24.5	84.5
57	53.5	26.2	86.2

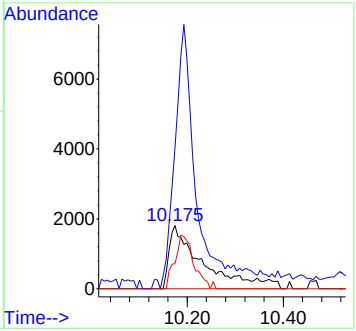


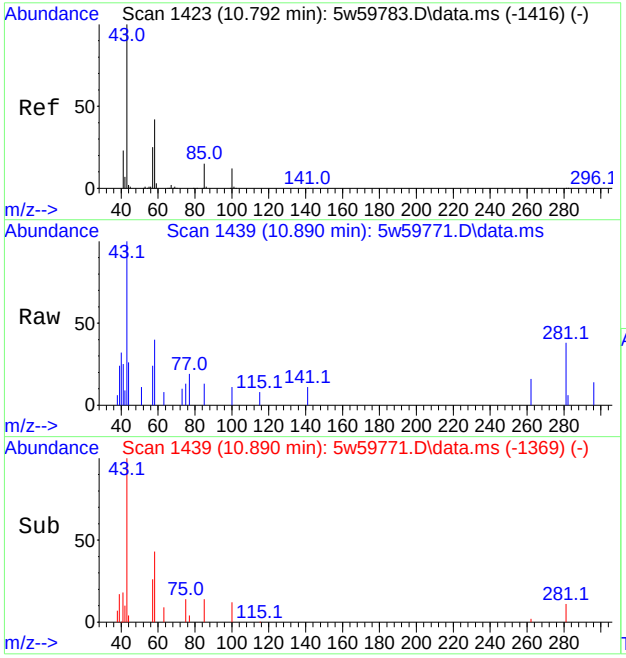


#63
METHYL METHACRYLATE
Concen: 0.18 PPBV
RT: 10.175 min Scan# 1322
Delta R.T. 0.068 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 8860

Ion	Ratio	Lower	Upper
69	100		
41	286.0	95.3	155.3#
100	47.7	6.3	66.3

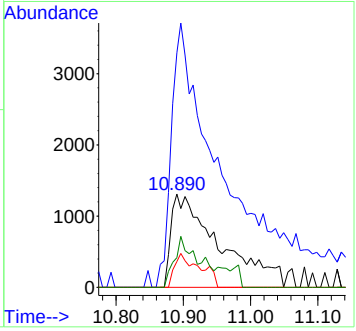


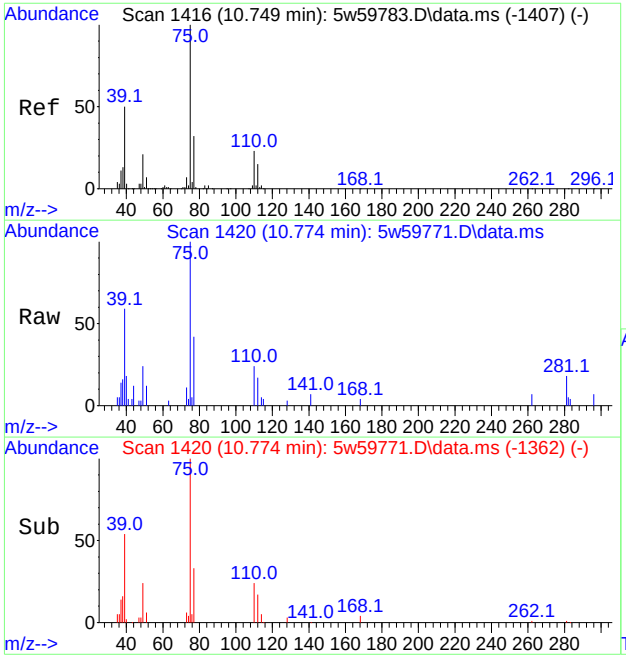


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 10.890 min Scan# 1439
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6548

Ion	Ratio	Lower	Upper
58	100		
43	299.8	209.2	269.2#
100	19.0	0.0	58.8
85	36.4	9.4	69.4

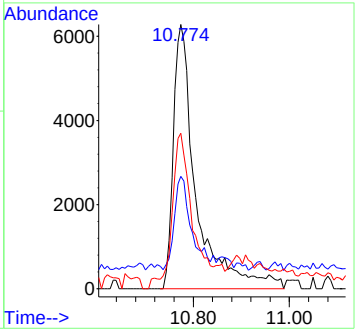


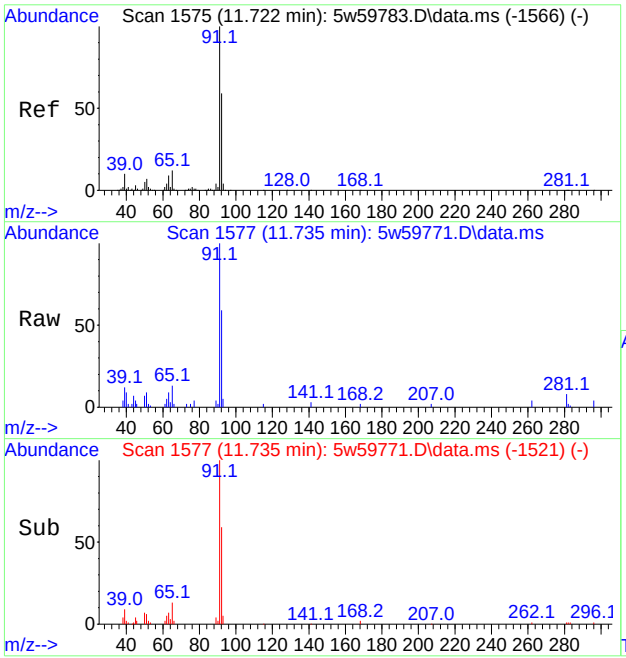


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 10.774 min Scan# 1420
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 20672

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	57.0	34.3	94.3

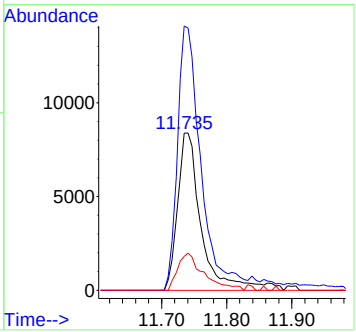


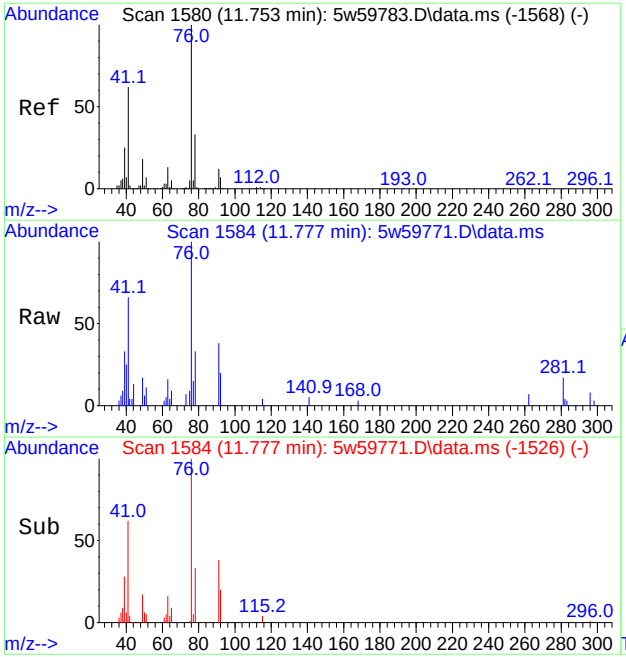


#66
TOLUENE
Concen: 0.19 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 92 Resp: 21289

Ion	Ratio	Lower	Upper
92	100		
91	180.0	140.1	200.1
65	25.9	0.0	53.1

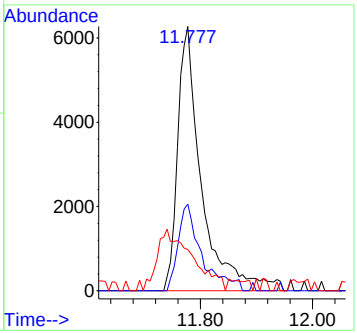


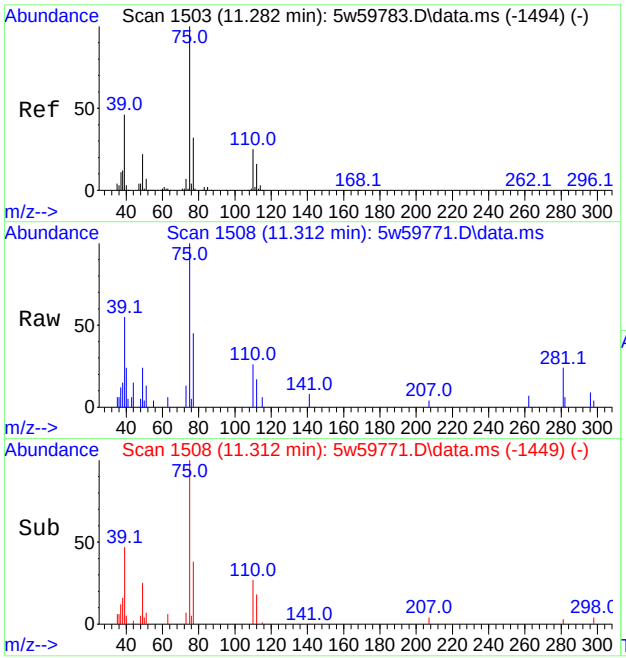


#67
1,3-DICHLOROPROPANE
Concen: 0.21 PPBV m
RT: 11.777 min Scan# 1584
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 18562

Ion	Ratio	Lower	Upper
76	100		
78	32.2	23.2	43.0
63	9.4	7.1	13.1

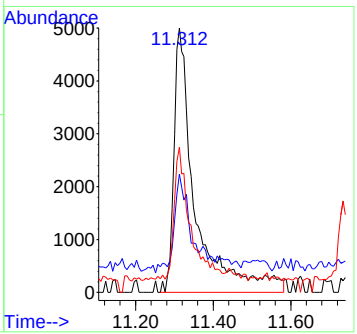


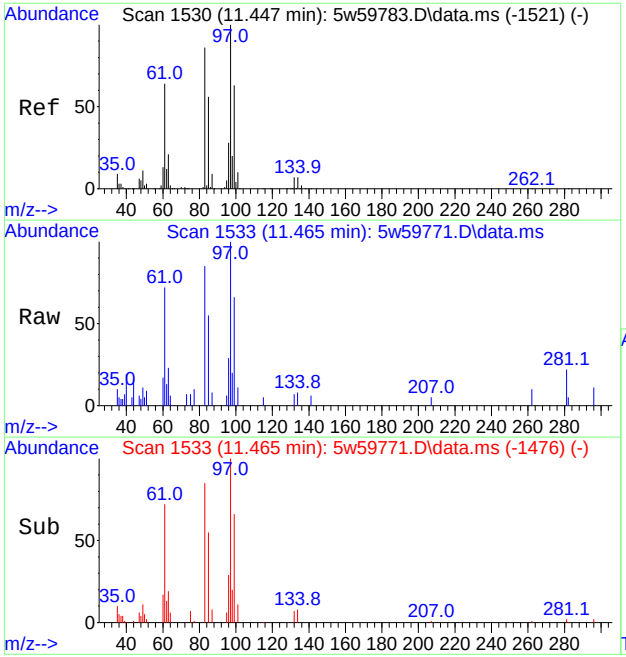


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 11.312 min Scan# 1508
Delta R.T. 0.030 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 19068

Ion	Ratio	Lower	Upper
75	100		
77	35.2	1.6	61.6
39	50.1	16.1	76.1

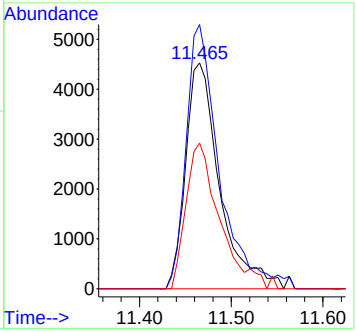


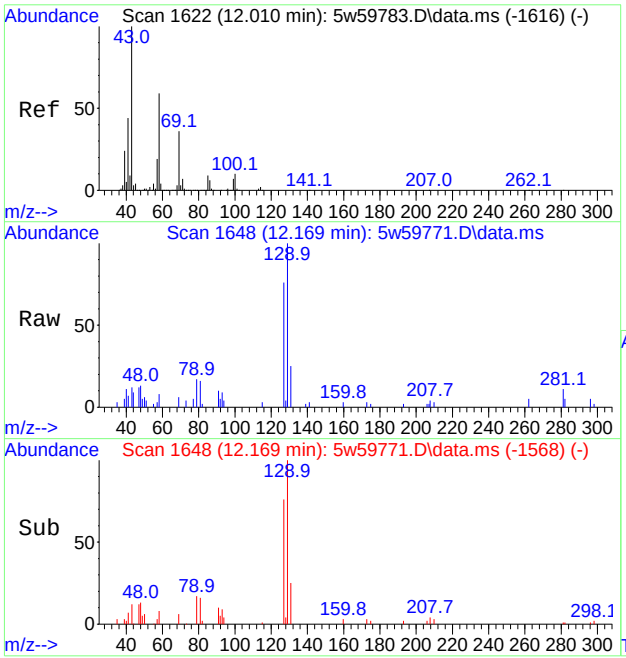


#69
1,1,2-TRICHLOROETHANE
Concen: 0.19 PPBV
RT: 11.465 min Scan# 1533
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 11660

Ion	Ratio	Lower	Upper
83	100		
97	114.8	86.3	146.3
85	64.7	35.3	95.3

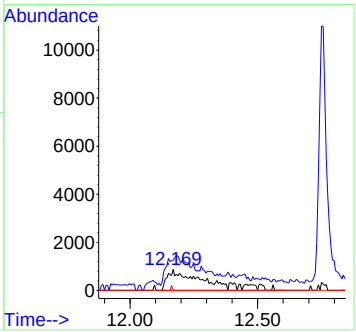


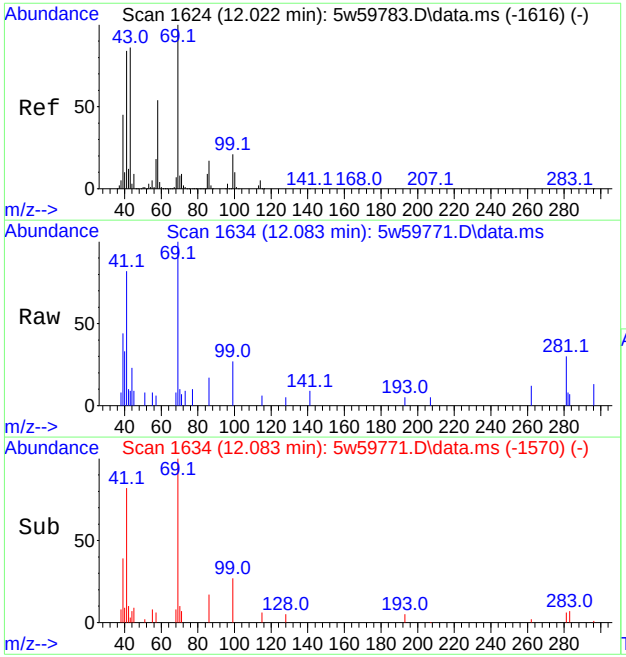


#71
2-HEXANONE
Concen: 0.16 PPBV m
RT: 12.169 min Scan# 1648
Delta R.T. 0.159 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 9038

Ion	Ratio	Lower	Upper
58	100		
43	104.3	137.2	197.2#
100	0.0	0.0	46.9

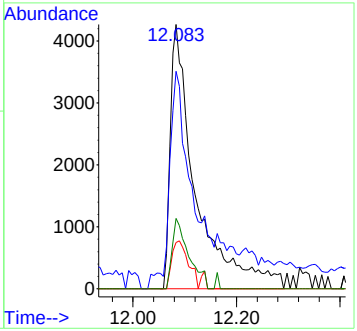


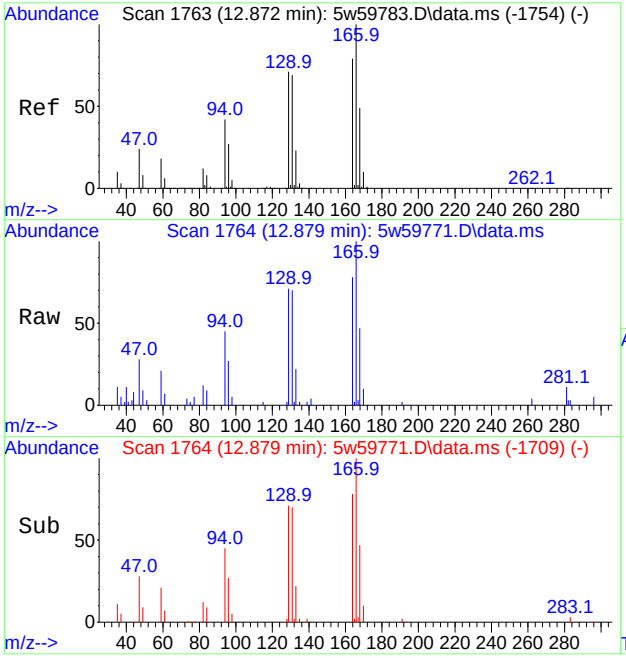


#72
ETHYL METHACRYLATE
Concen: 0.19 PPBV
RT: 12.083 min Scan# 1634
Delta R.T. 0.061 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 14602

Ion	Ratio	Lower	Upper
69	100		
41	106.4	64.0	119.0
86	11.8	12.0	22.4#
99	17.3	15.0	27.8

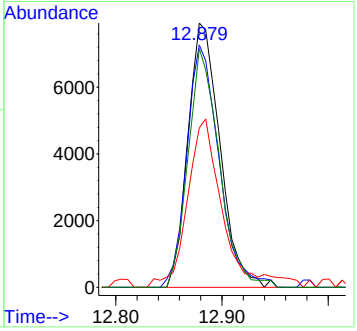


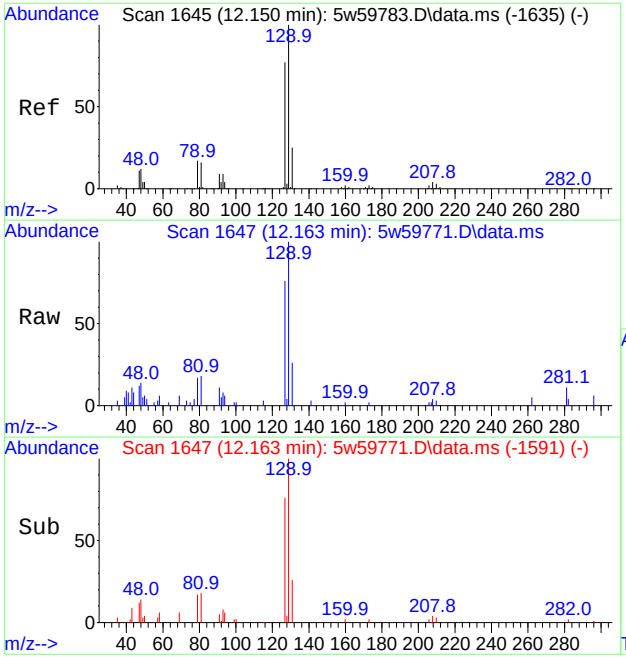


#73
TETRACHLOROETHYLENE
Concen: 0.23 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:164 Resp: 16678

Ion	Ratio	Lower	Upper
164	100		
129	92.5	59.7	119.7
168	69.8	32.2	92.2
131	88.1	57.8	117.8

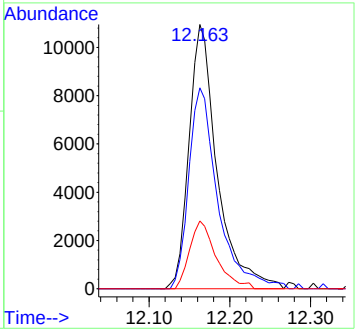


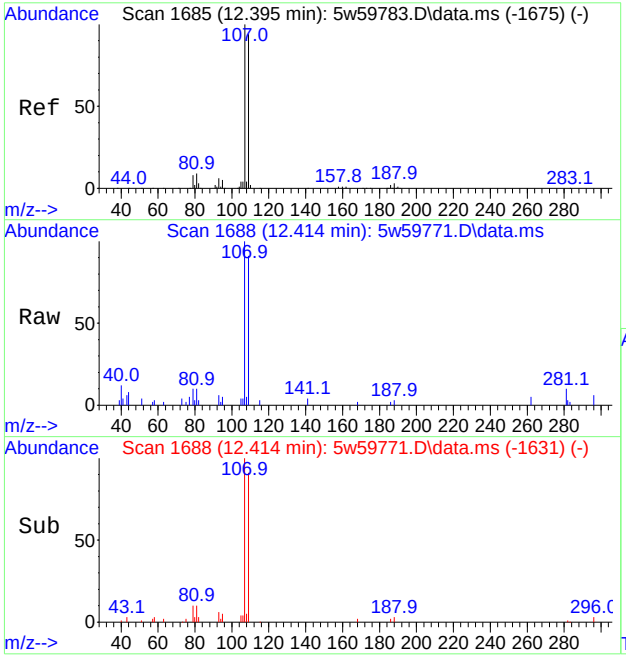


#74
DIBROMOCHLOROMETHANE
Concen: 0.21 PPBV
RT: 12.163 min Scan# 1647
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:129 Resp: 26574

Ion	Ratio	Lower	Upper
129	100		
127	78.2	47.1	107.1
131	24.1	0.0	54.5

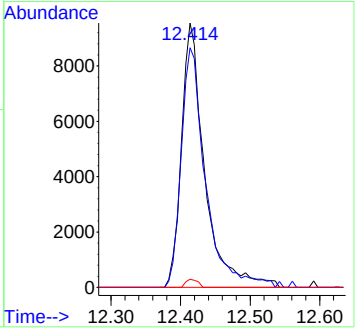


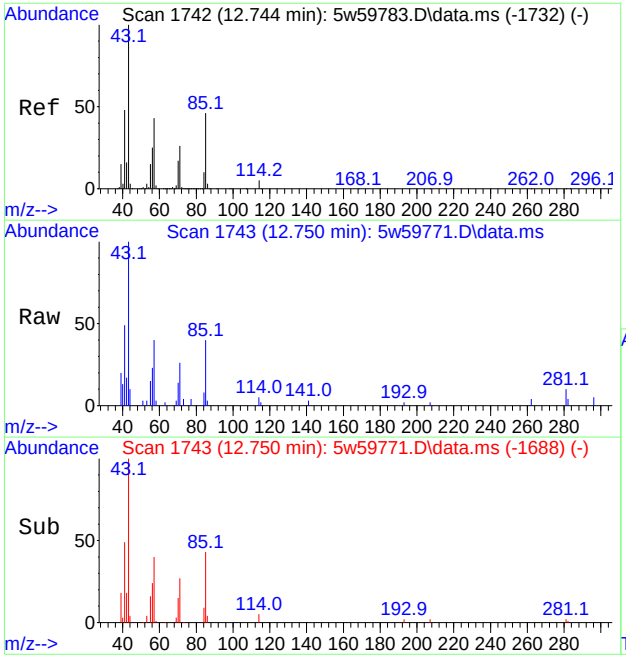


#75
1,2-DIBROMOETHANE
Concen: 0.22 PPBV
RT: 12.414 min Scan# 1688
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:107 Resp: 22241

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	1.6	0.0	32.8

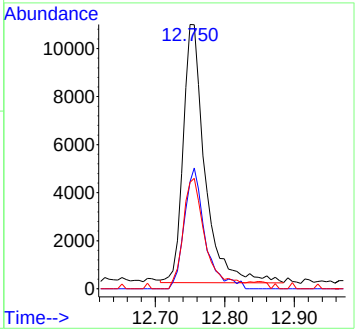


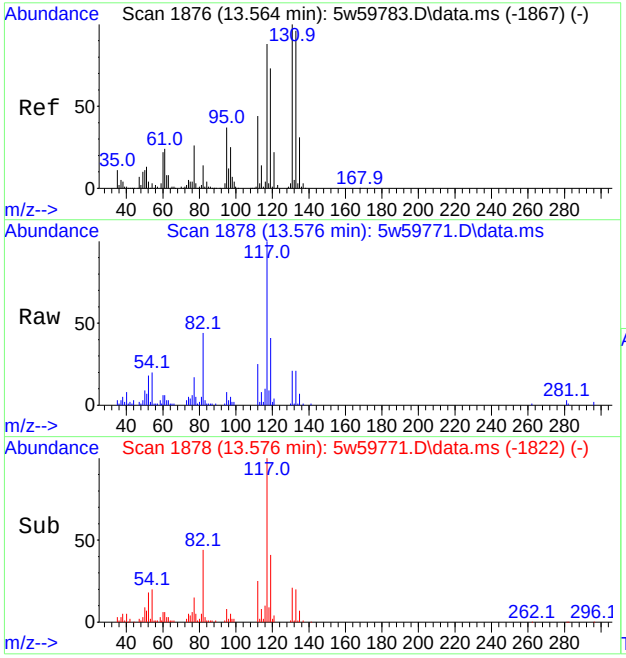


#76
OCTANE
Concen: 0.25 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 23489

Ion	Ratio	Lower	Upper
43	100		
85	44.5	14.6	74.6
57	46.5	13.7	73.7

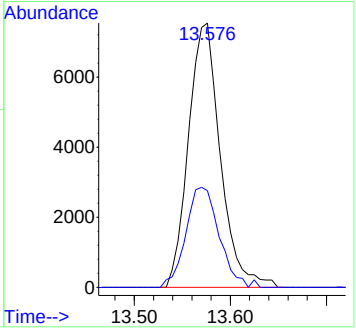


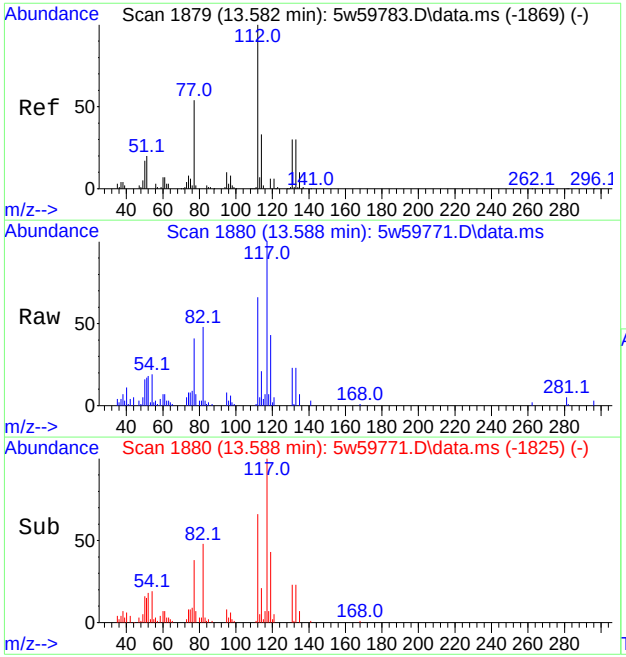


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.21 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:131 Resp: 17410

Ion	Ratio	Lower	Upper
131	100		
95	39.7	6.5	66.5

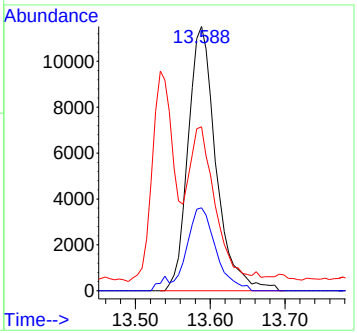


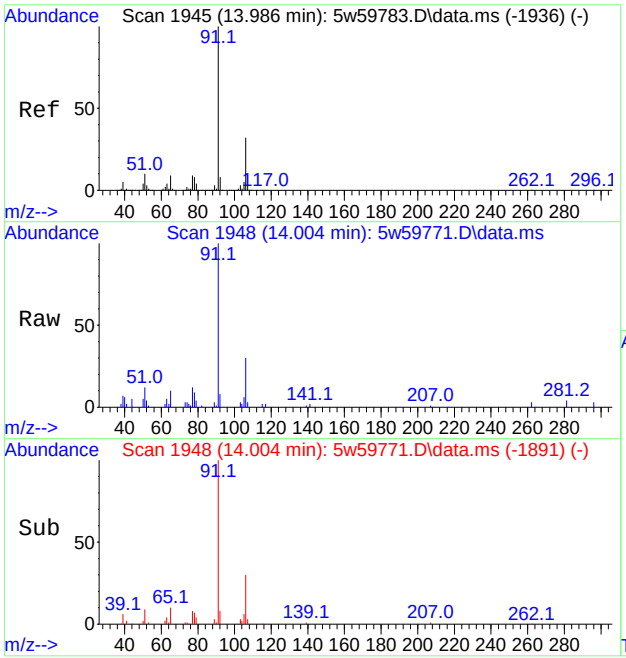


#78
CHLOROBENZENE
Concen: 0.23 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:112 Resp: 29927

Ion	Ratio	Lower	Upper
112	100		
114	32.2	2.6	62.6
77	55.6	25.4	85.4

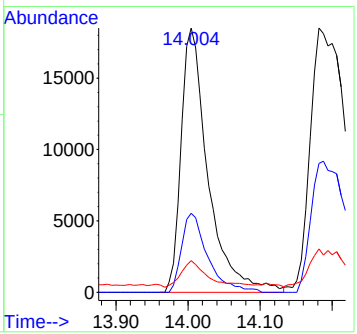




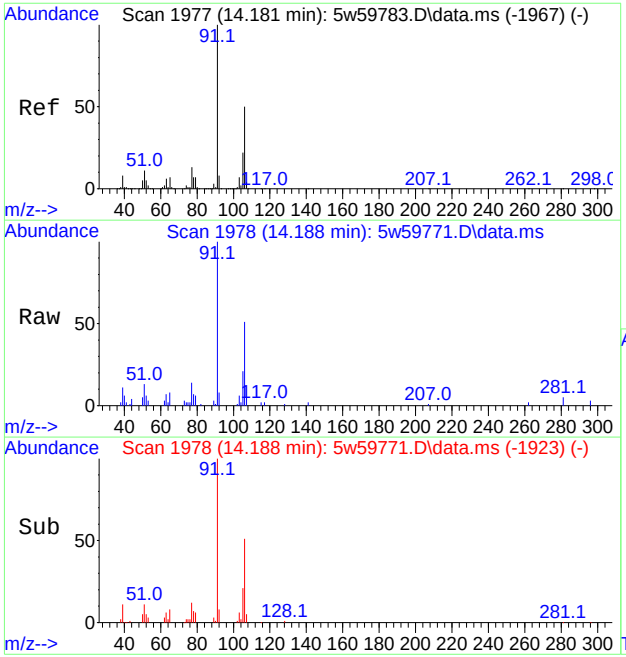
#79
ETHYLBENZENE
Concen: 0.24 PPBV
RT: 14.004 min Scan# 1948
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 48060

Ion	Ratio	Lower	Upper
91	100		
106	28.9	1.3	61.3
77	10.2	0.0	38.6



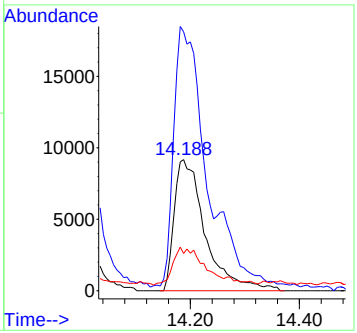
7.7.3

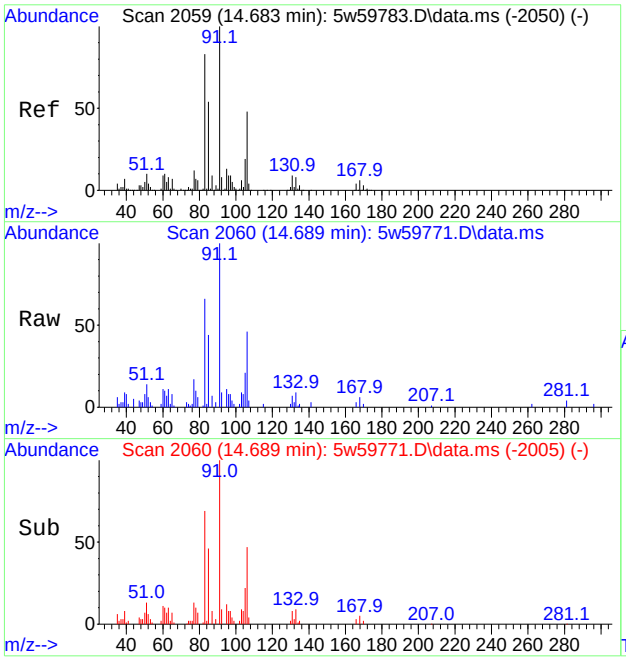


#80
m,p-XYLENE
Concen: 0.45 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 36141

Ion	Ratio	Lower	Upper
106	100		
91	197.2	171.0	231.0
77	28.5	0.0	56.7

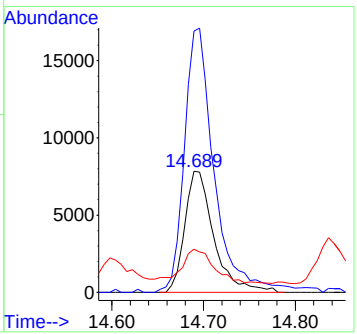


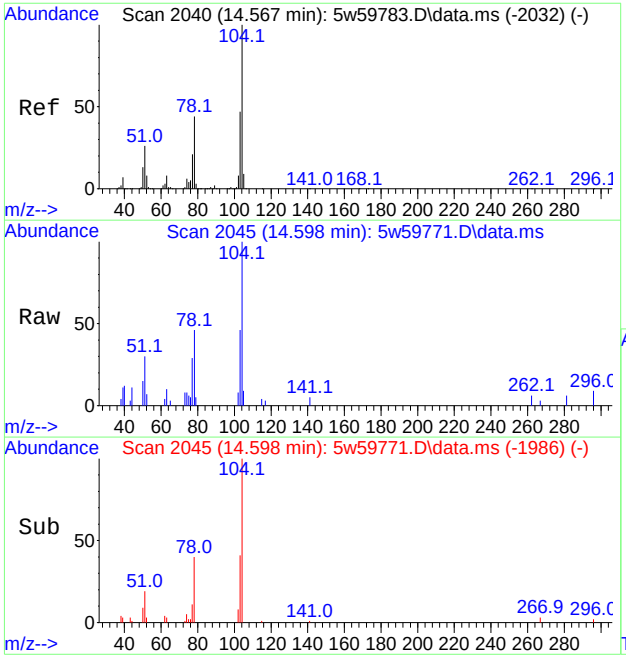


#81
o-XYLENE
Concen: 0.23 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 17278

Ion	Ratio	Lower	Upper
106	100		
91	226.2	181.6	241.6
77	34.4	0.0	56.6

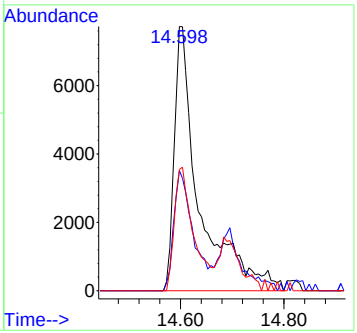


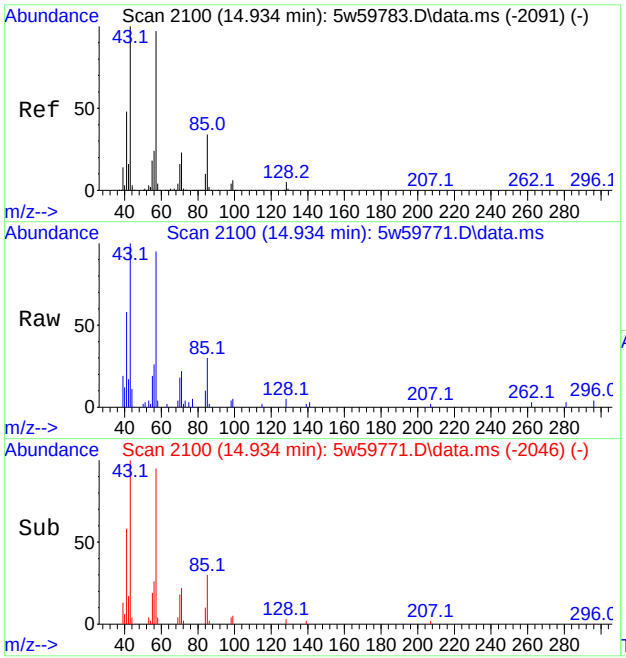


#82
STYRENE
Concen: 0.21 PPBV
RT: 14.598 min Scan# 2045
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:104 Resp: 26105

Ion	Ratio	Lower	Upper
104	100		
78	36.1	13.3	73.3
103	36.3	17.2	77.2

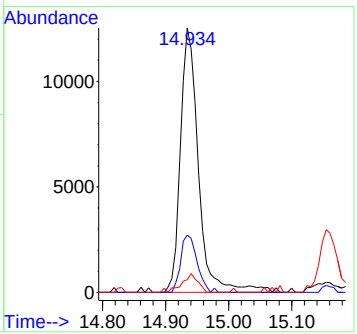


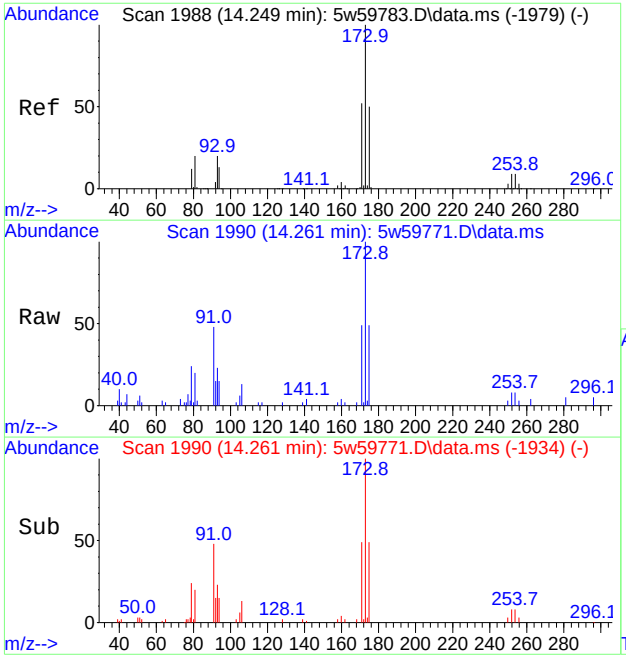


#83
NONANE
Concen: 0.26 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 25033

Ion	Ratio	Lower	Upper
43	100		
71	19.6	0.0	52.7
128	6.3	0.0	34.7

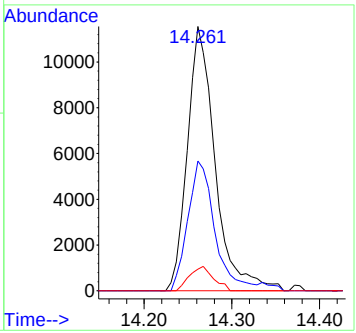


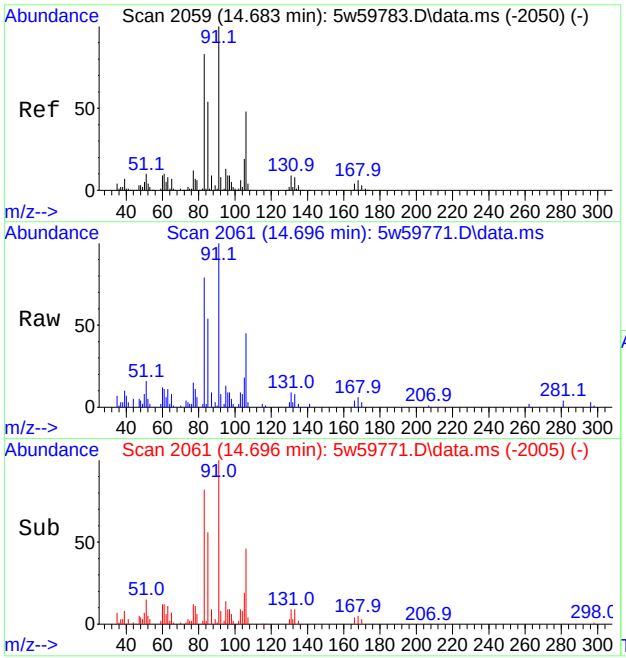


#84
BROMOFORM
Concen: 0.20 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:173 Resp: 25461

Ion	Ratio	Lower	Upper
173	100		
175	49.1	19.6	79.6
254	7.9	0.0	39.0

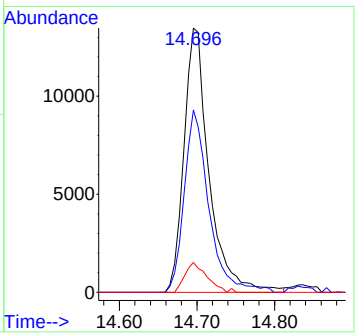


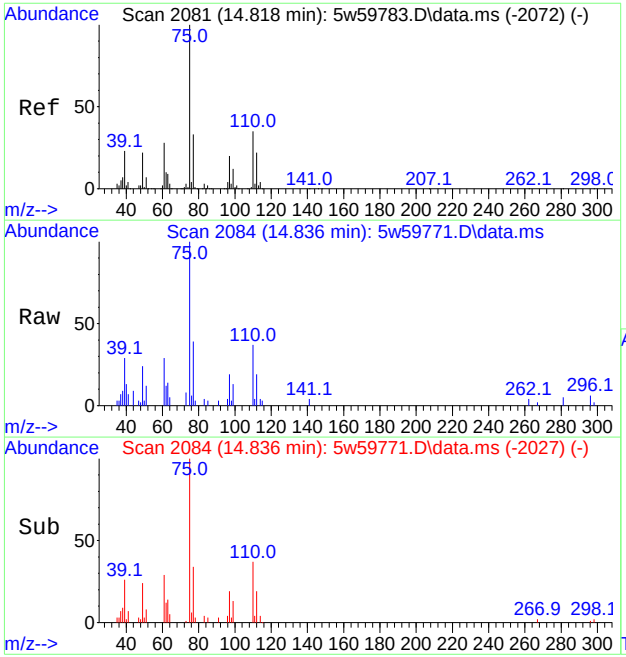


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.23 PPBV
RT: 14.696 min Scan# 2061
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 30281

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	10.0	0.0	40.3

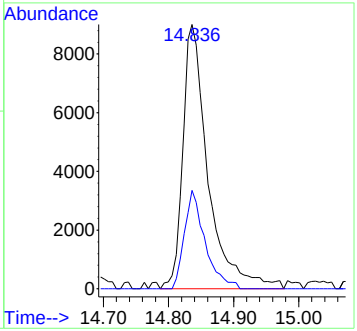


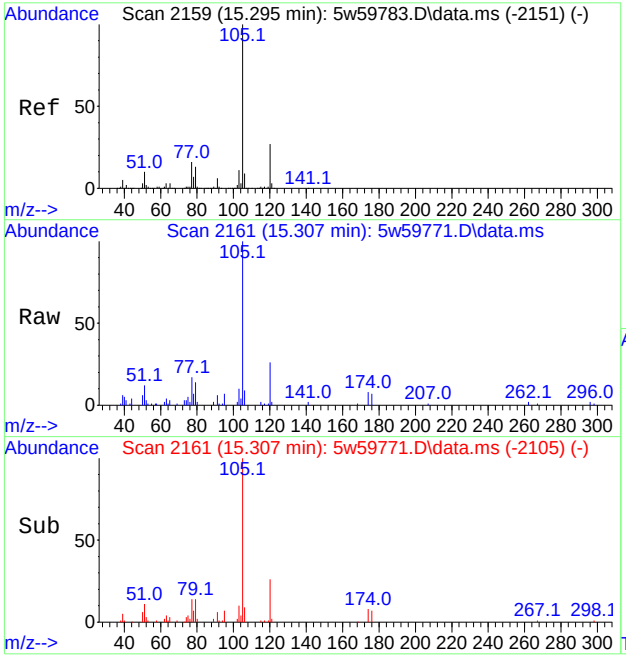


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.24 PPBV
RT: 14.836 min Scan# 2084
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 24248

Ion	Ratio	Lower	Upper
75	100		
110	30.6	4.4	64.4

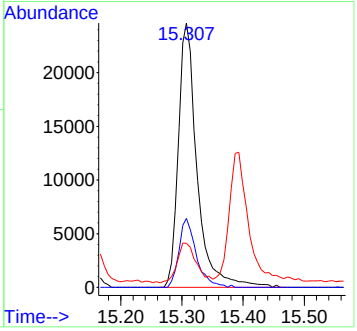


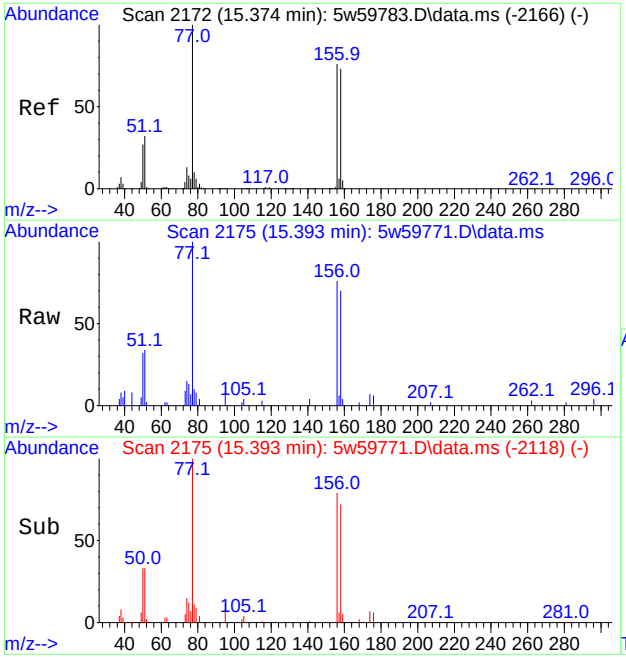


#88
ISOPROPYLBENZENE
Concen: 0.23 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 52329

Ion	Ratio	Lower	Upper
105	100		
120	24.2	0.0	56.0
77	15.5	0.0	45.6

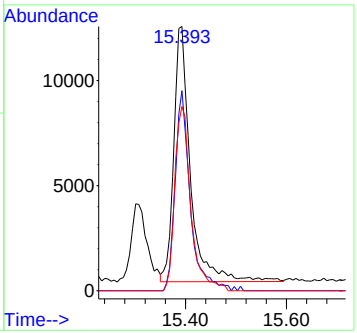


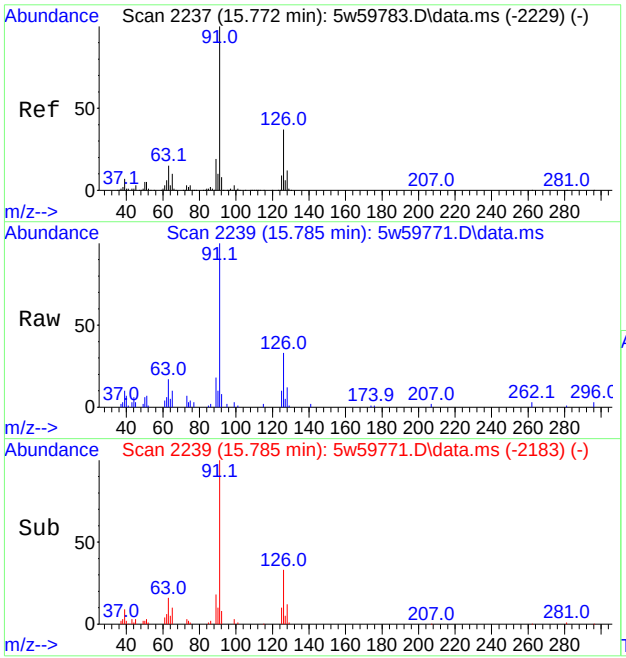


#89
BROMOBENZENE
Concen: 0.24 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 77 Resp: 27933

Ion	Ratio	Lower	Upper
77	100		
156	70.8	54.9	101.9
158	69.8	53.5	99.3

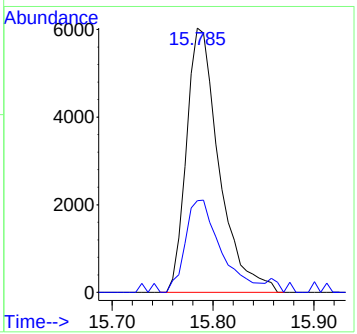


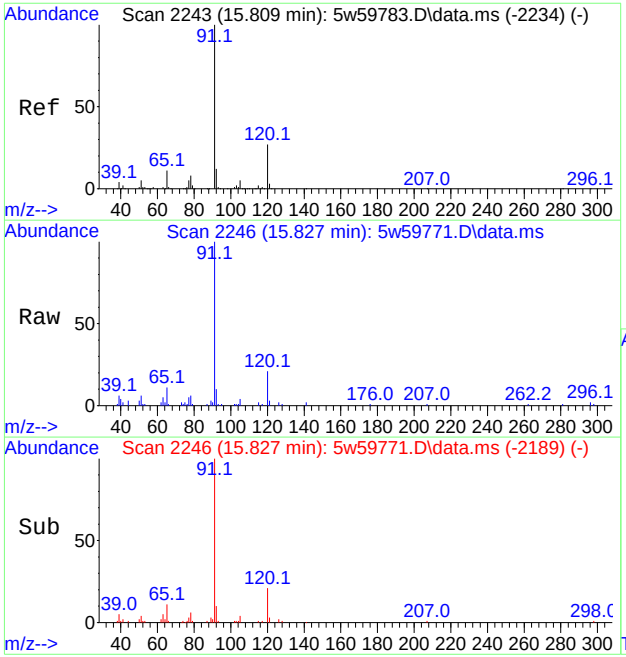


#90
2-CHLOROTOLUENE
Concen: 0.21 PPBV
RT: 15.785 min Scan# 2239
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:126 Resp: 13598

Ion	Ratio	Lower	Upper
126	100		
128	40.4	2.7	62.7

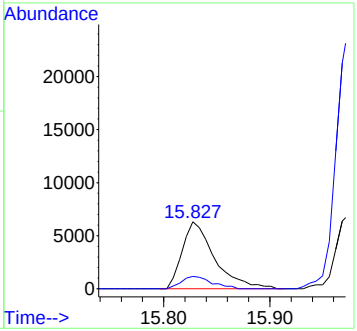


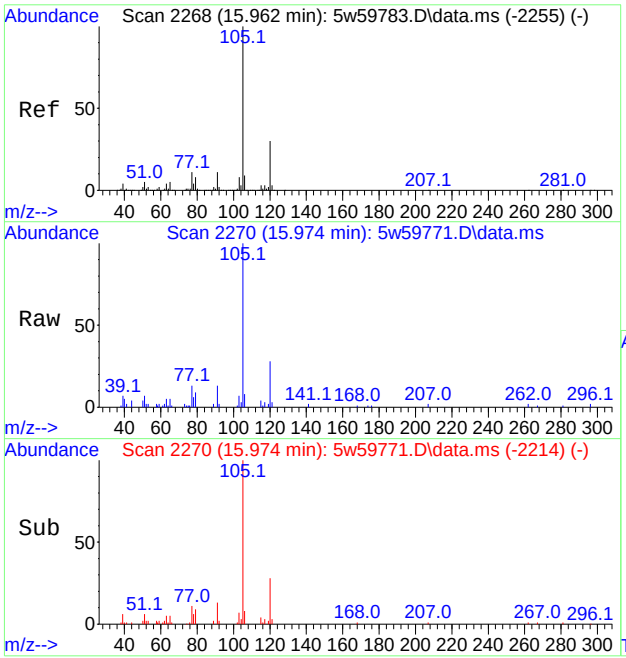


#91
n-PROPYLBENZENE
Concen: 0.21 PPBV
RT: 15.827 min Scan# 2246
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:120 Resp: 13388

Ion	Ratio	Lower	Upper
120	100		
105	17.4	0.0	47.0

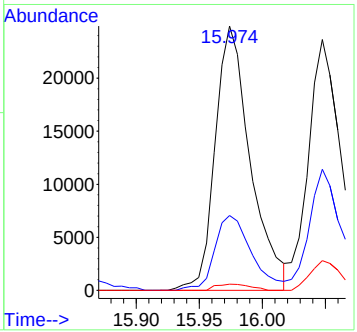


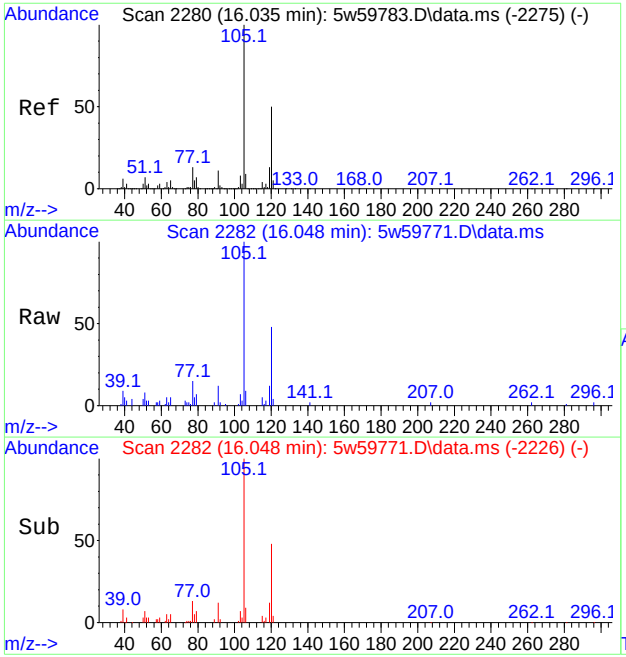


#92
4-ETHYLTOLUENE
Concen: 0.22 PPBV
RT: 15.974 min Scan# 2270
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48336

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	59.9
119	2.3	0.0	32.3

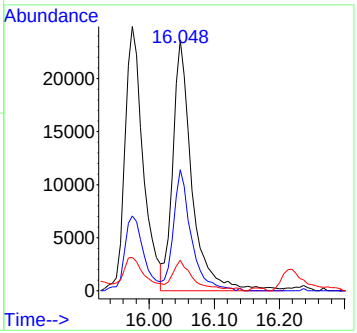


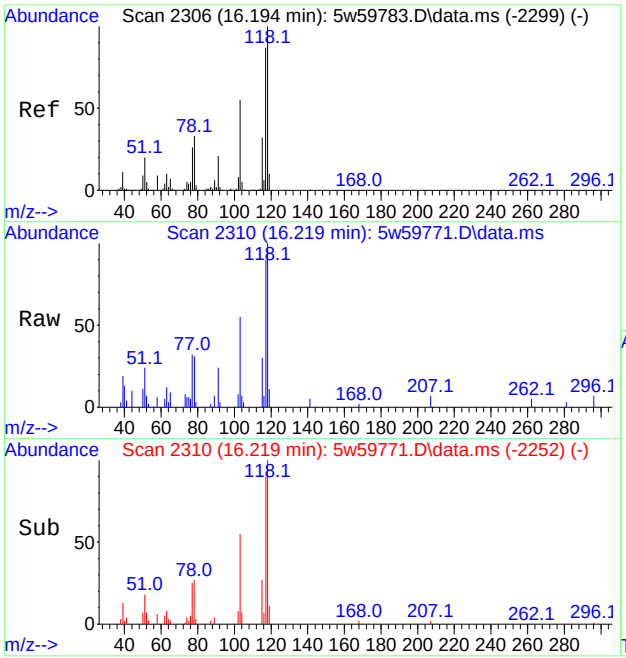


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.26 PPBV
RT: 16.048 min Scan# 2282
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48446

Ion	Ratio	Lower	Upper
105	100		
120	45.0	19.4	79.4
91	13.3	0.0	40.8

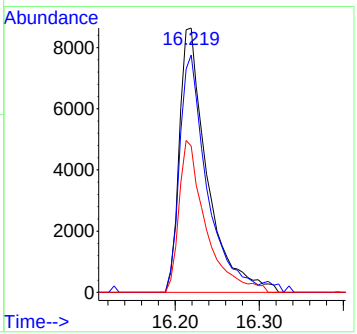


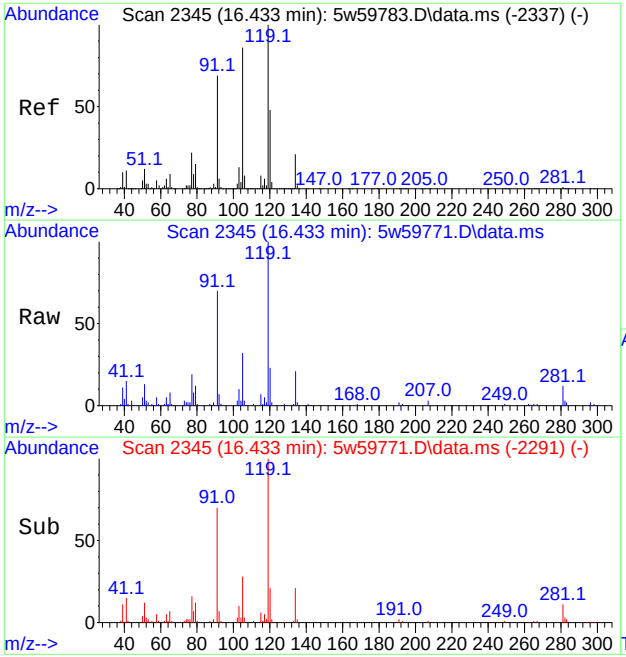


#94
ALPHA-METHYLSTYRENE
Concen: 0.19 PPBV
RT: 16.219 min Scan# 2310
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:118 Resp: 19855

Ion	Ratio	Lower	Upper
118	100		
117	90.9	60.9	113.1
103	55.4	38.6	71.8

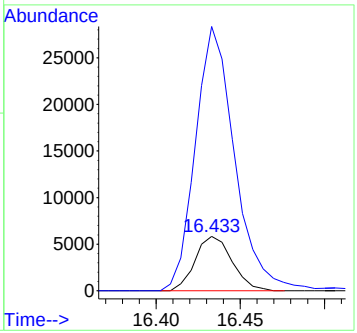


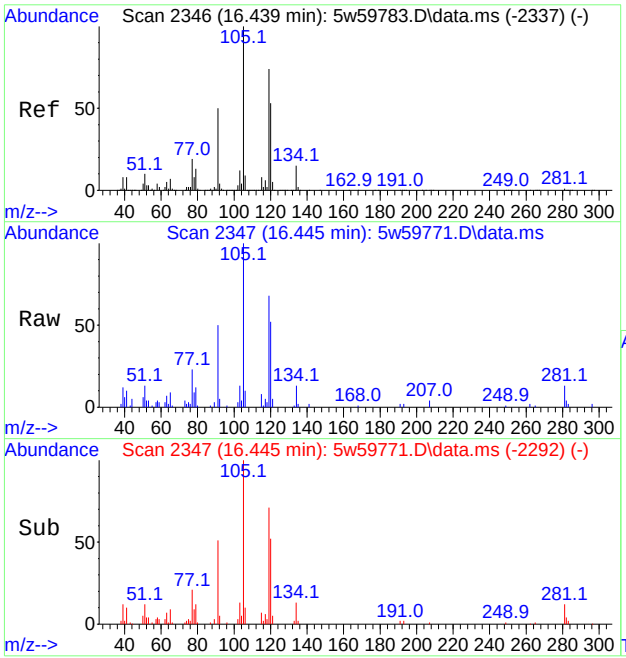


#95
tert-BUTYLBENZENE
Concen: 0.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 8909

Ion	Ratio	Lower	Upper
134	100		
119	524.3	459.3	519.3#

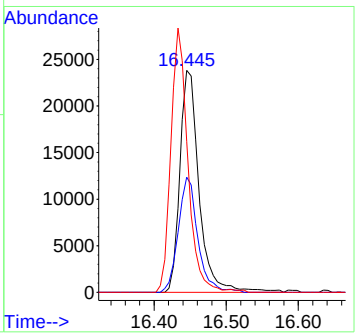


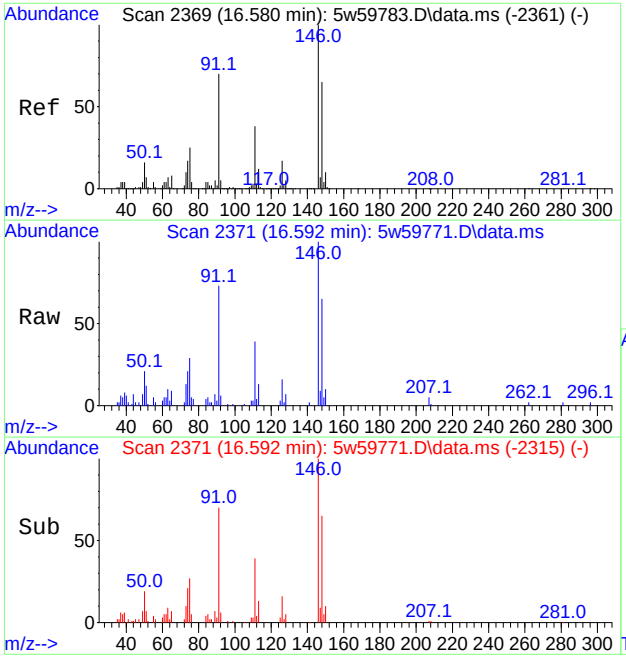


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 44191

Ion	Ratio	Lower	Upper
105	100		
120	52.7	25.7	85.7
119	105.7	75.7	135.7

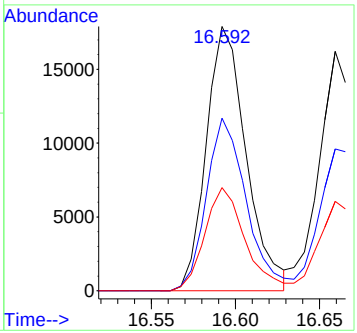


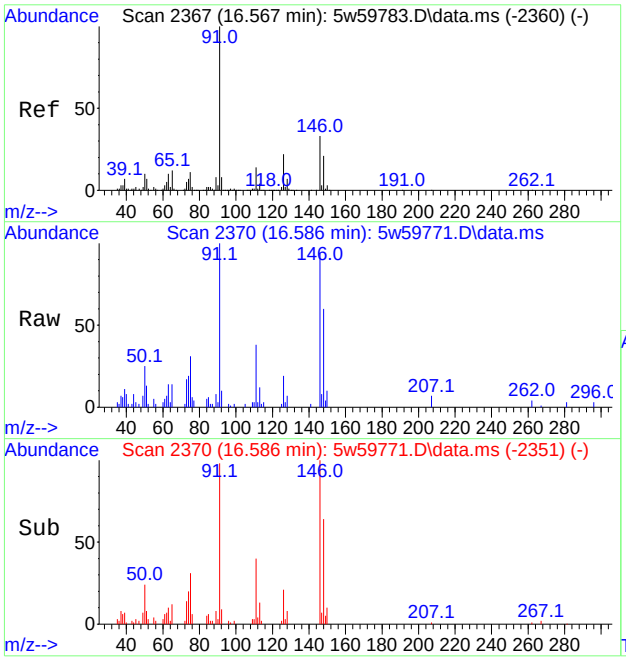


#97
m-DICHLOROBENZENE
Concen: 0.20 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 29601

Ion	Ratio	Lower	Upper
146	100		
148	66.0	34.8	94.8
111	39.3	8.2	68.2

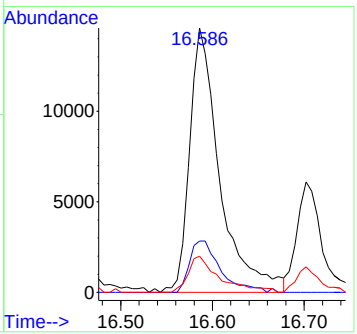


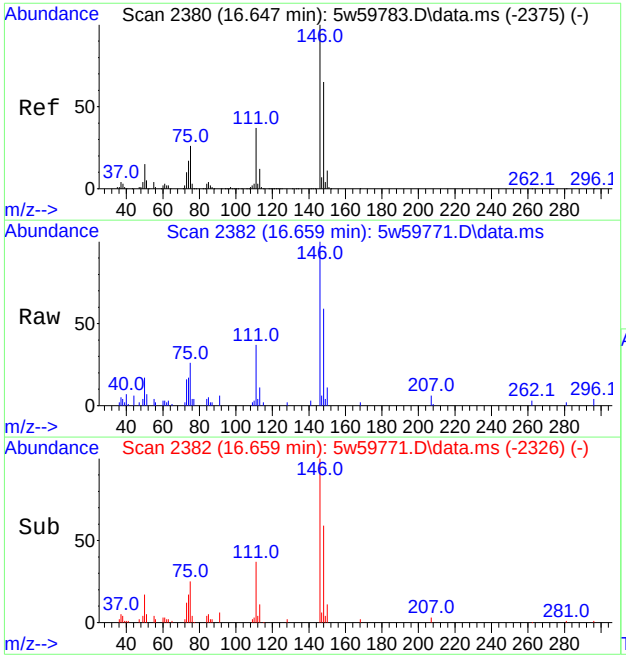


#98
BENZYL CHLORIDE
Concen: 0.19 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 33418

Ion	Ratio	Lower	Upper
91	100		
126	20.0	0.0	51.7
65	14.3	0.0	42.2

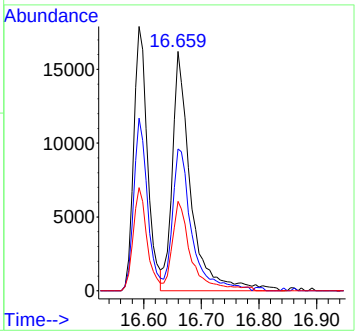


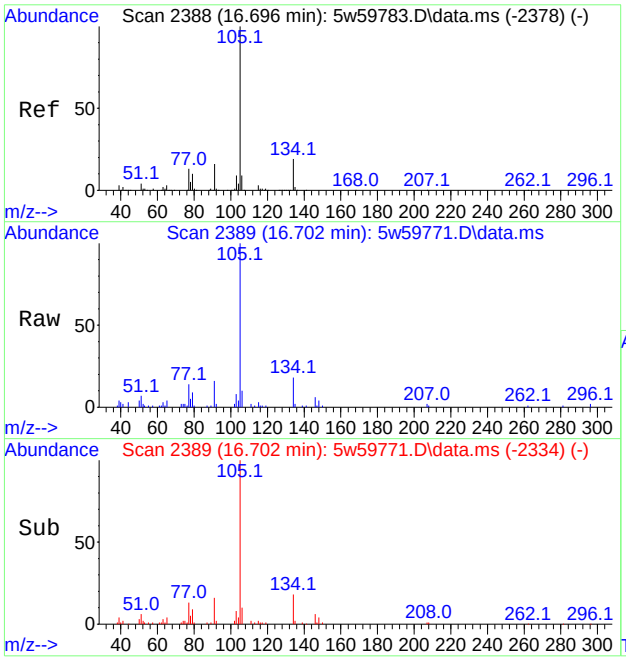


#99
p-DICHLOROBENZENE
Concen: 0.24 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 36208

Ion	Ratio	Lower	Upper
146	100		
148	61.8	34.6	94.6
111	38.4	6.7	66.7

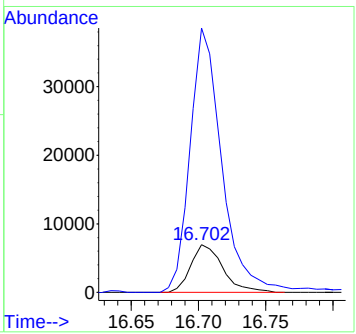


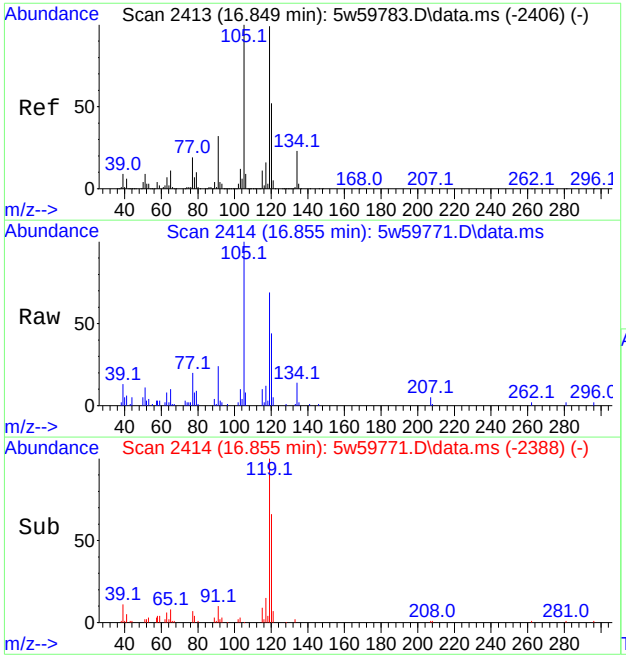


#100
sec-BUTYLBENZENE
Concen: 0.23 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 11583

Ion	Ratio	Lower	Upper
134	100		
105	557.6	502.5	562.5

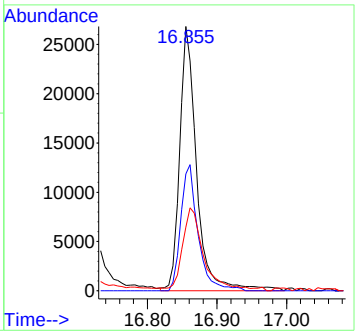


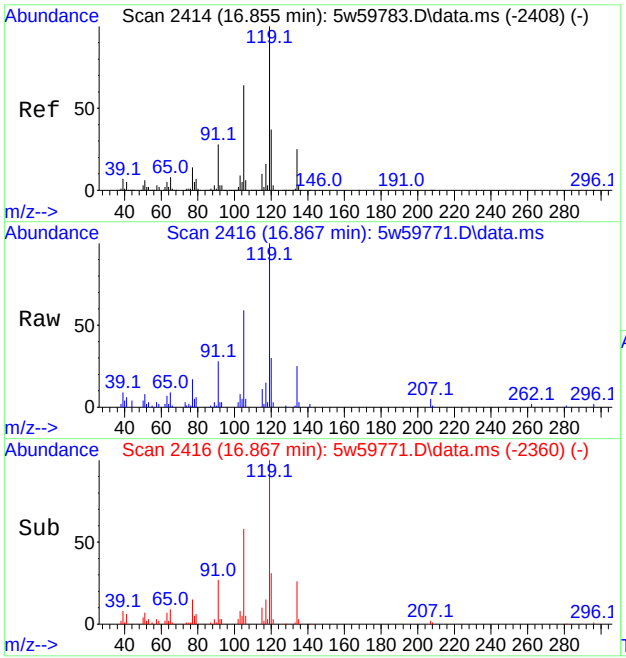


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 45724

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	39.5	7.4	67.4

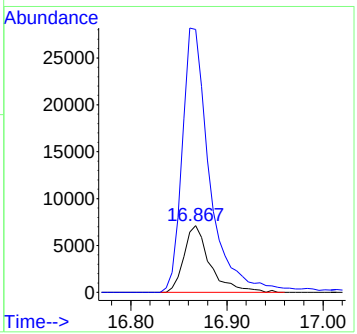


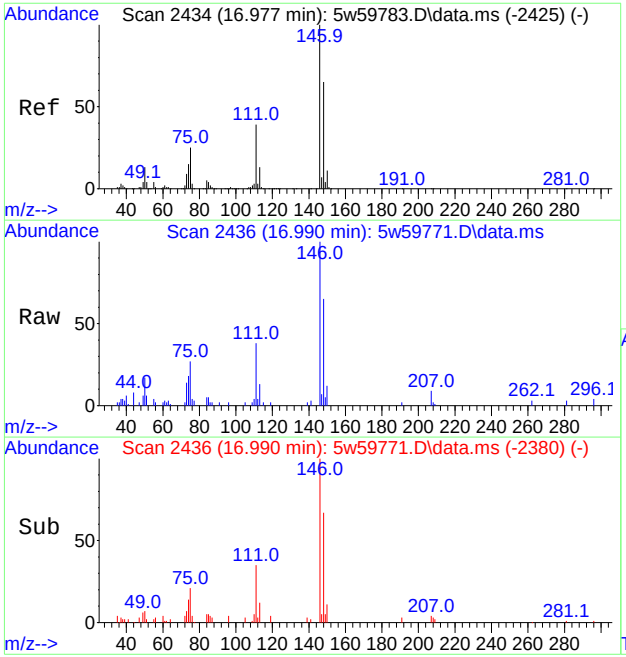


#102
p-ISOPROPYLTOLUENE
Concen: 0.23 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 13423

Ion	Ratio	Lower	Upper
134	100		
119	423.6	377.7	437.7

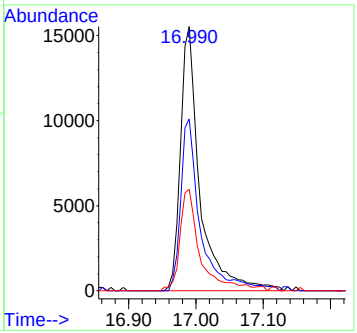


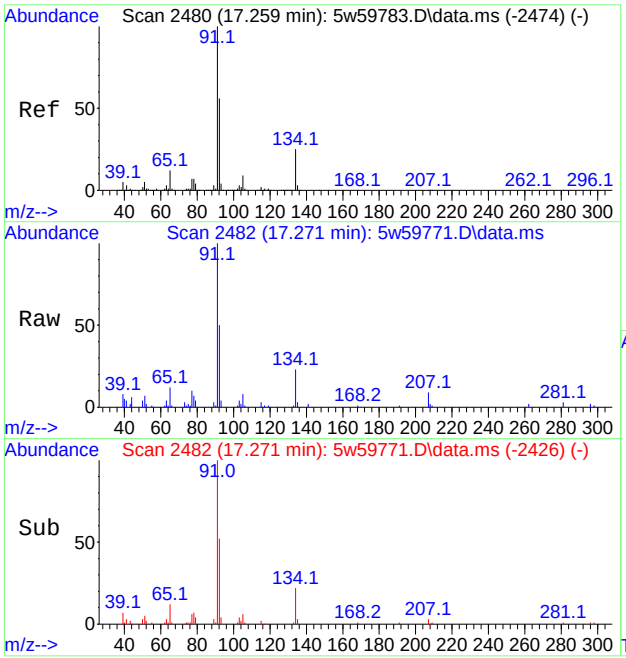


#103
o-DICHLOROBENZENE
Concen: 0.22 PPBV
RT: 16.990 min Scan# 2436
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 31360

Ion	Ratio	Lower	Upper
146	100		
148	65.8	34.3	94.3
111	40.0	9.2	69.2

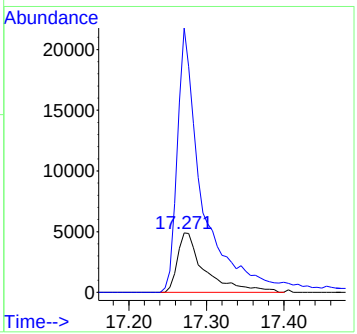


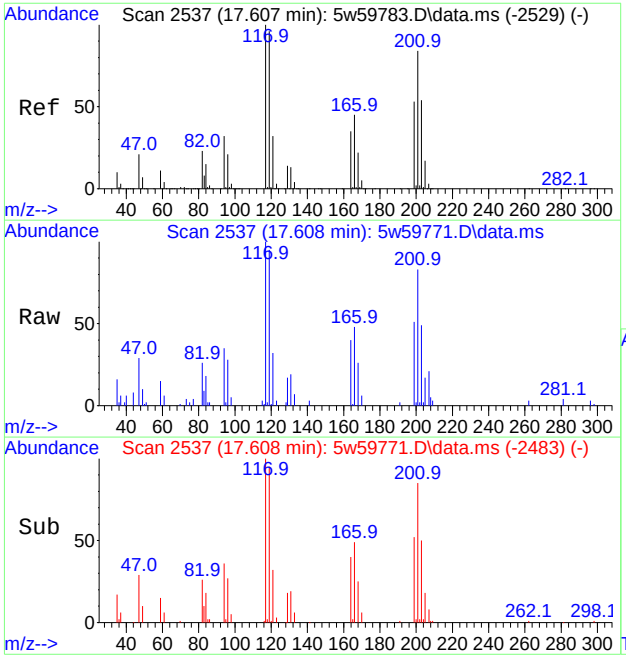


#104
n-BUTYLBENZENE
Concen: 0.20 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 12074

Ion	Ratio	Lower	Upper
134	100		
91	432.2	363.1	423.1#

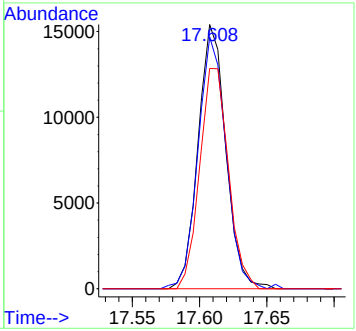


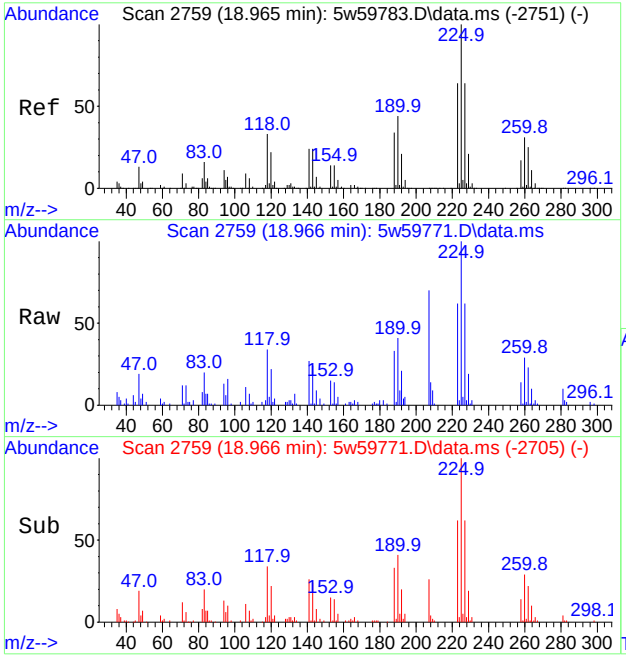


#105
HEXACHLOROETHANE
Concen: 0.23 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 22122

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.2	124.8
201	86.3	61.1	113.5

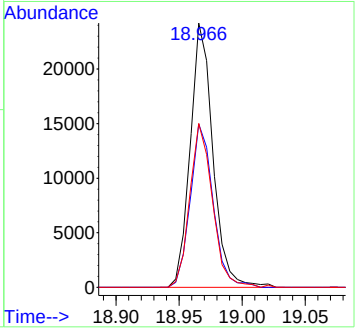


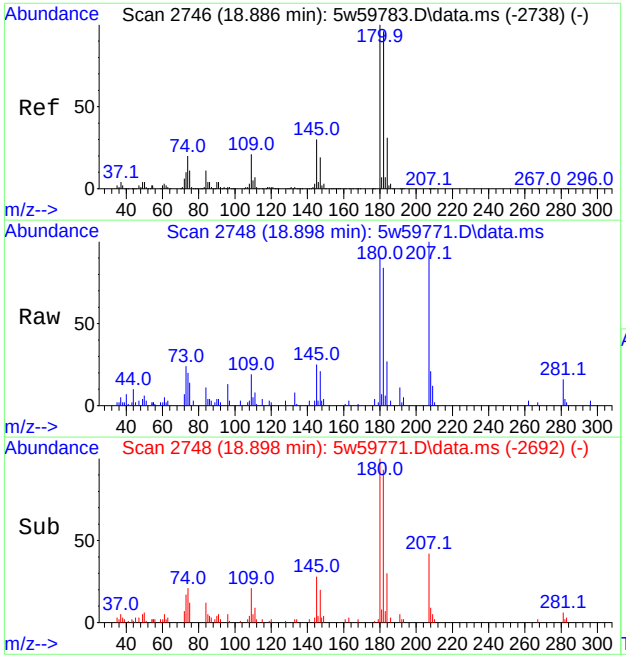


#106
HEXACHLOROBUTADIENE
Concen: 0.23 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:225 Resp: 30270

Ion	Ratio	Lower	Upper
225	100		
227	62.2	34.2	94.2
223	62.0	33.3	93.3

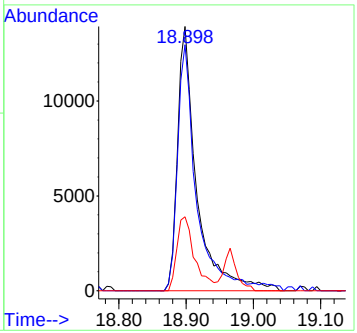


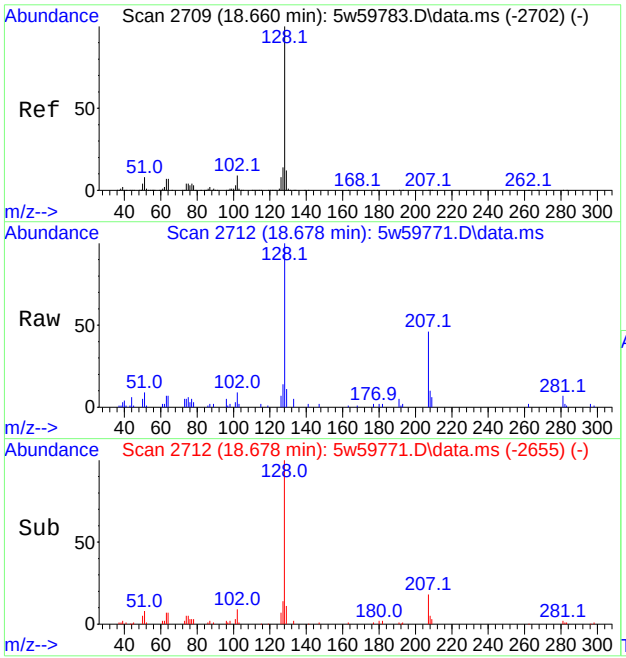


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.21 PPBV
RT: 18.898 min Scan# 2748
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:180 Resp: 27720

Ion	Ratio	Lower	Upper
180	100		
182	93.4	65.4	125.4
145	26.0	0.0	59.4

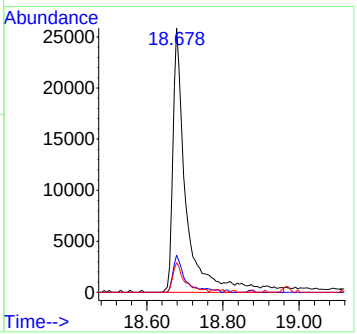


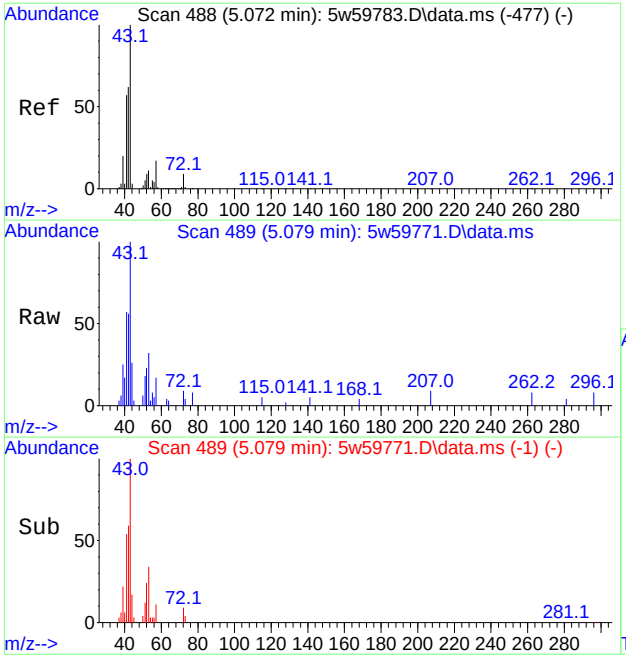


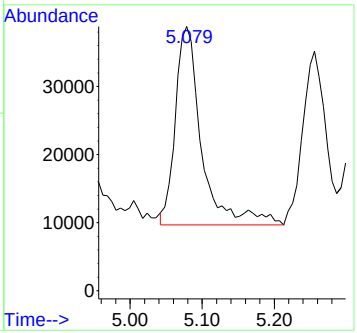
#108
NAPHTHALENE
Concen: 0.22 PPBV
RT: 18.678 min Scan# 2712
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:128 Resp: 62904

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	43.3
129	9.9	0.0	41.4







#110
TVHC as equiv Pentane
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:TIC Resp: 73523

Manual Integration Approval Summary

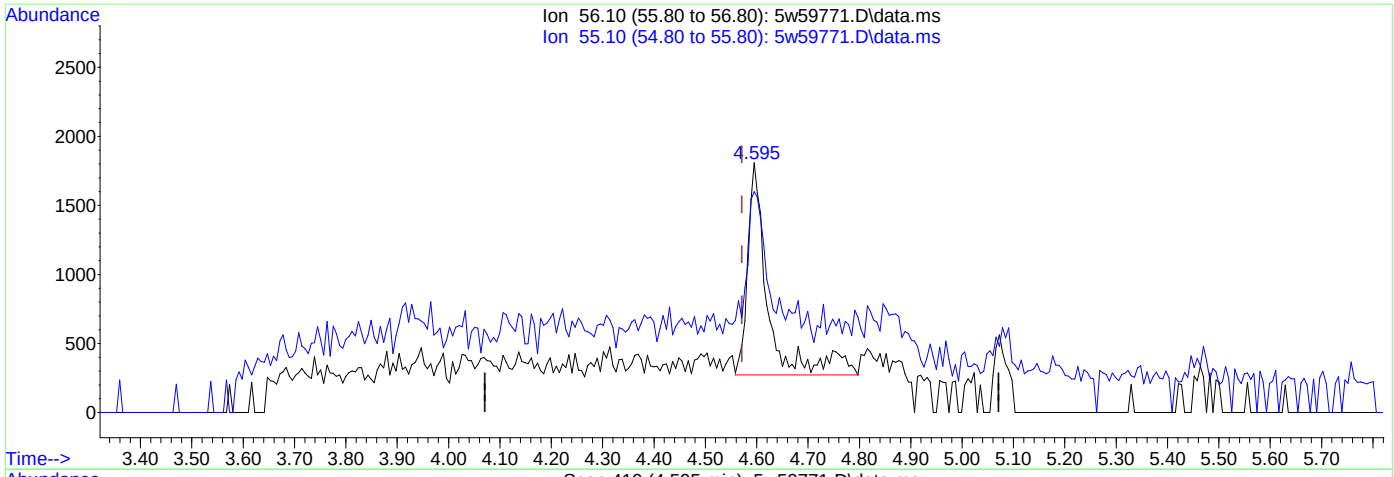
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59771.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:50 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

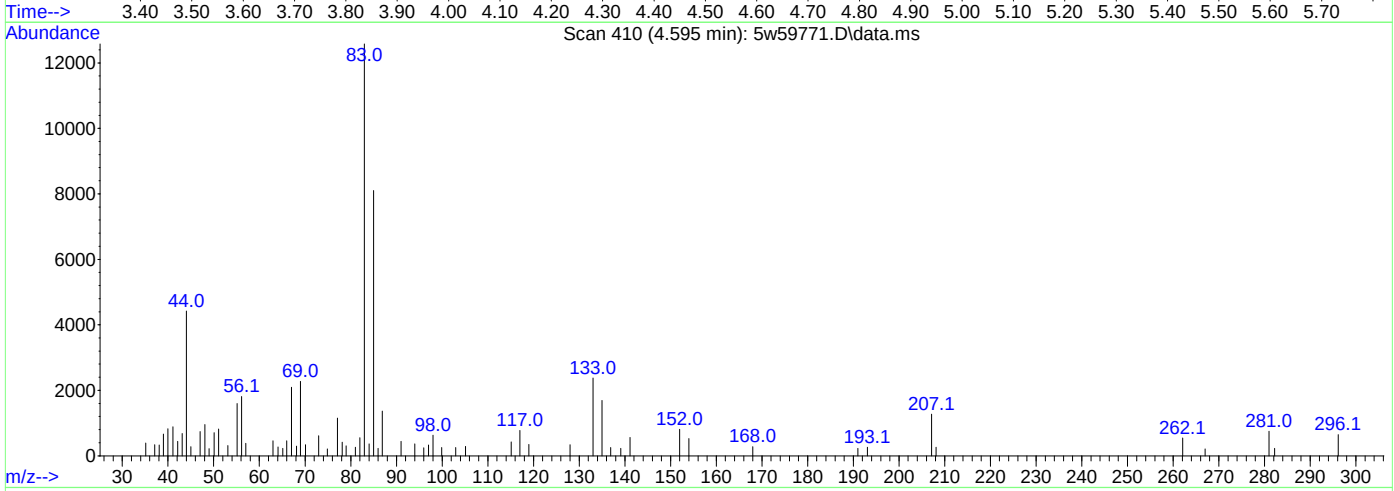
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl Acrylate	96-33-3		7.49	Missed peak
Ethyl Acetate	141-78-6		7.50	Poor instrument integration
Ethyl Acrylate	140-88-5		9.80	Missed peak
1,3-Dichloropropane	142-28-9		11.78	Poor instrument integration
2-Hexanone	591-78-6		12.17	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.29PPBV

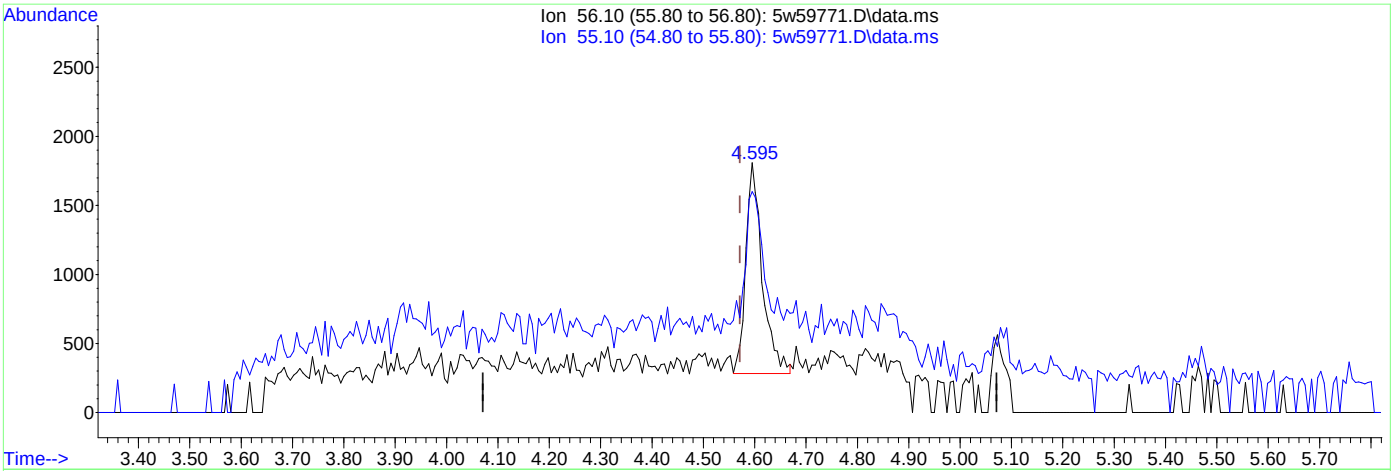
response 4217

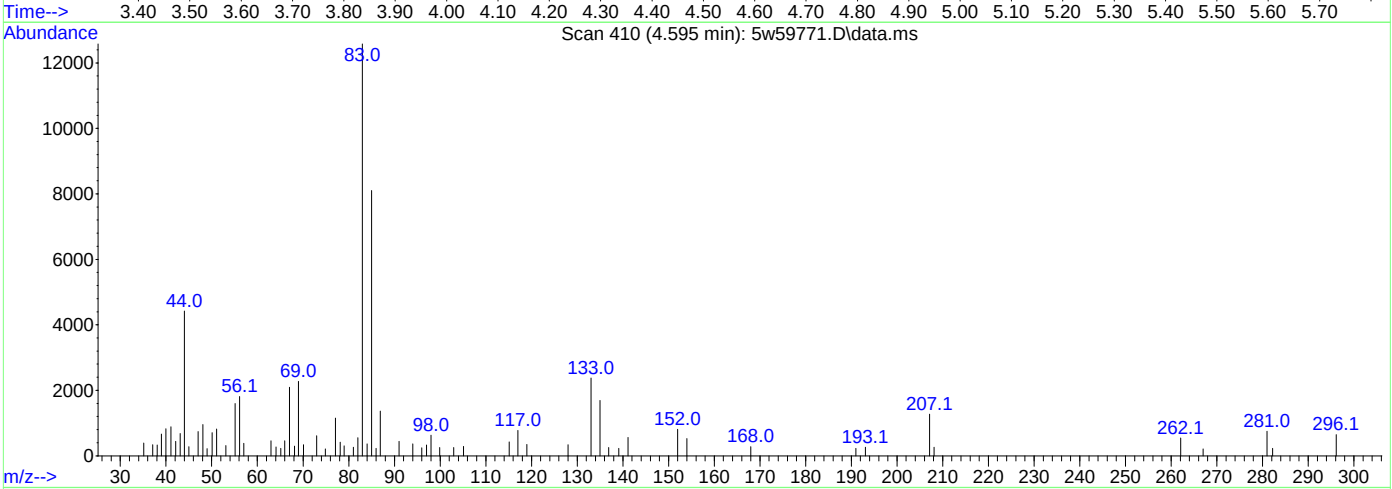
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	80.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.24PPBV m

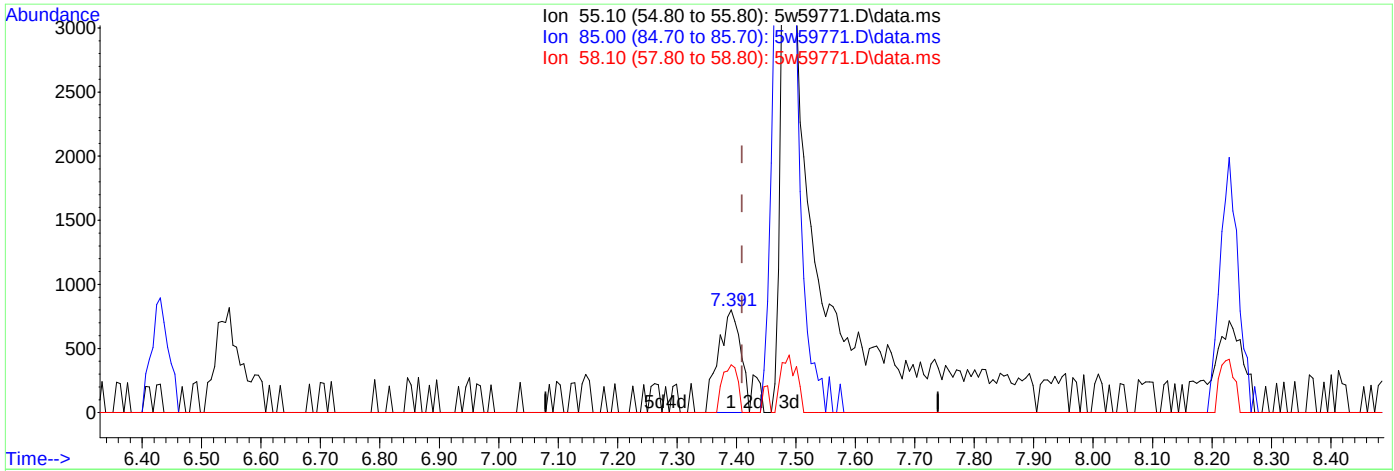
response 3414

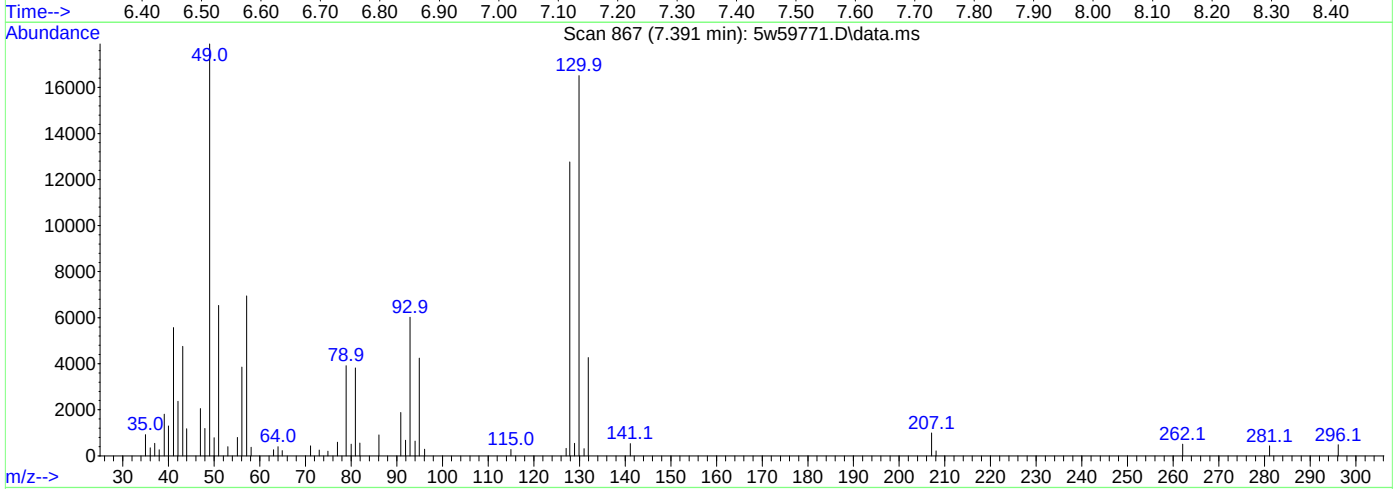
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	99.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.391min (-0.018) 0.03PPBV

response 2074

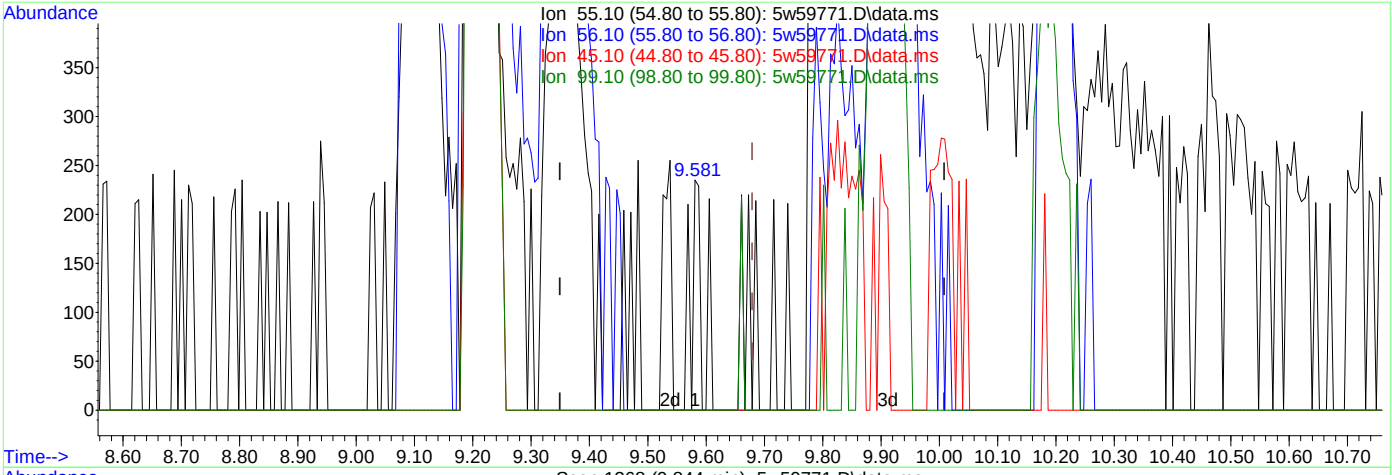
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	31.97#
0.00	0.00	0.00

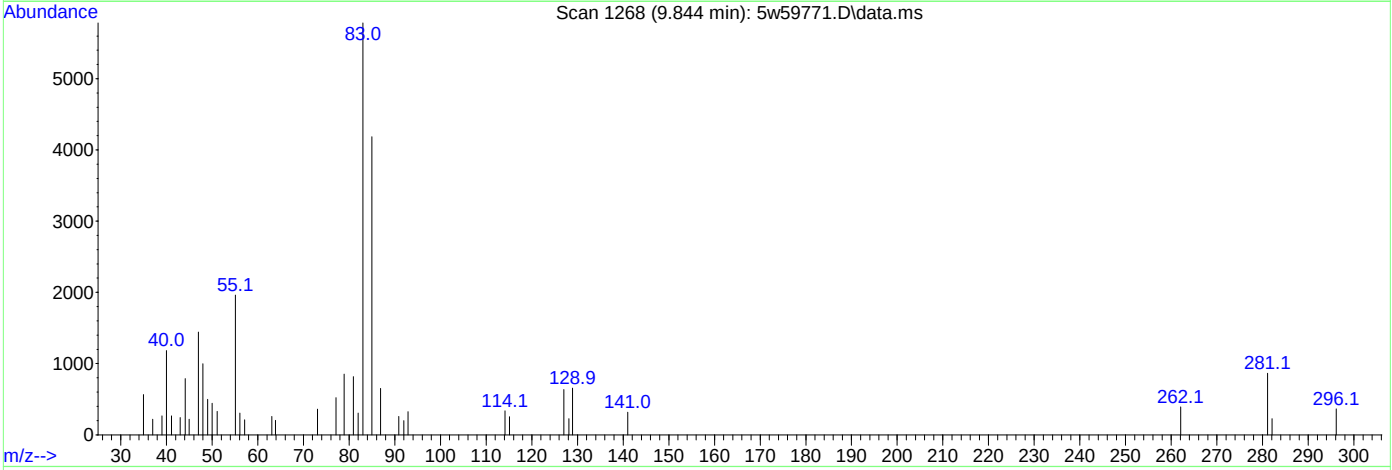
5W59771.D edits: METHYL ACRYLATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.581min (-0.098) 0.00PPBV

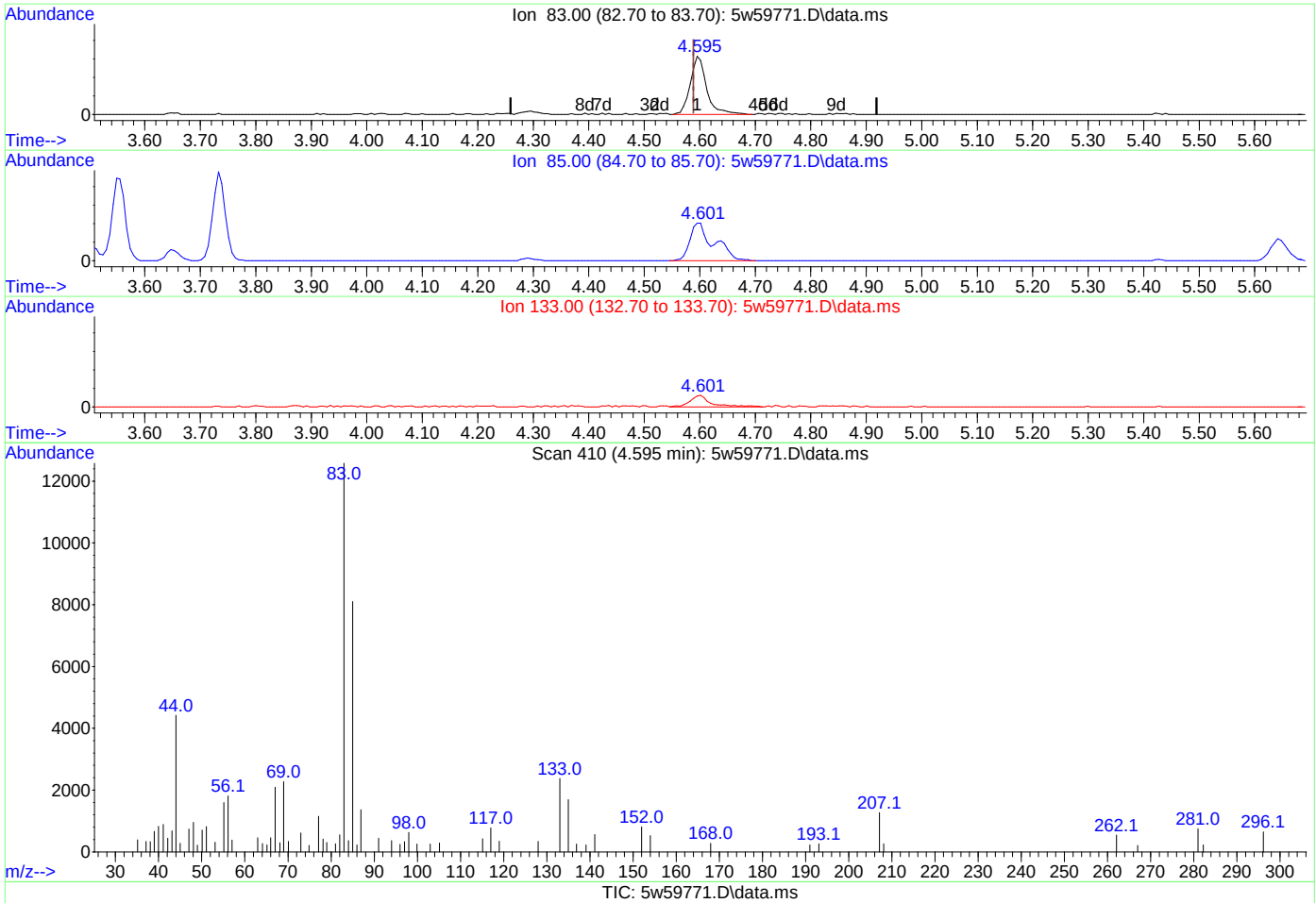
response 247

Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV

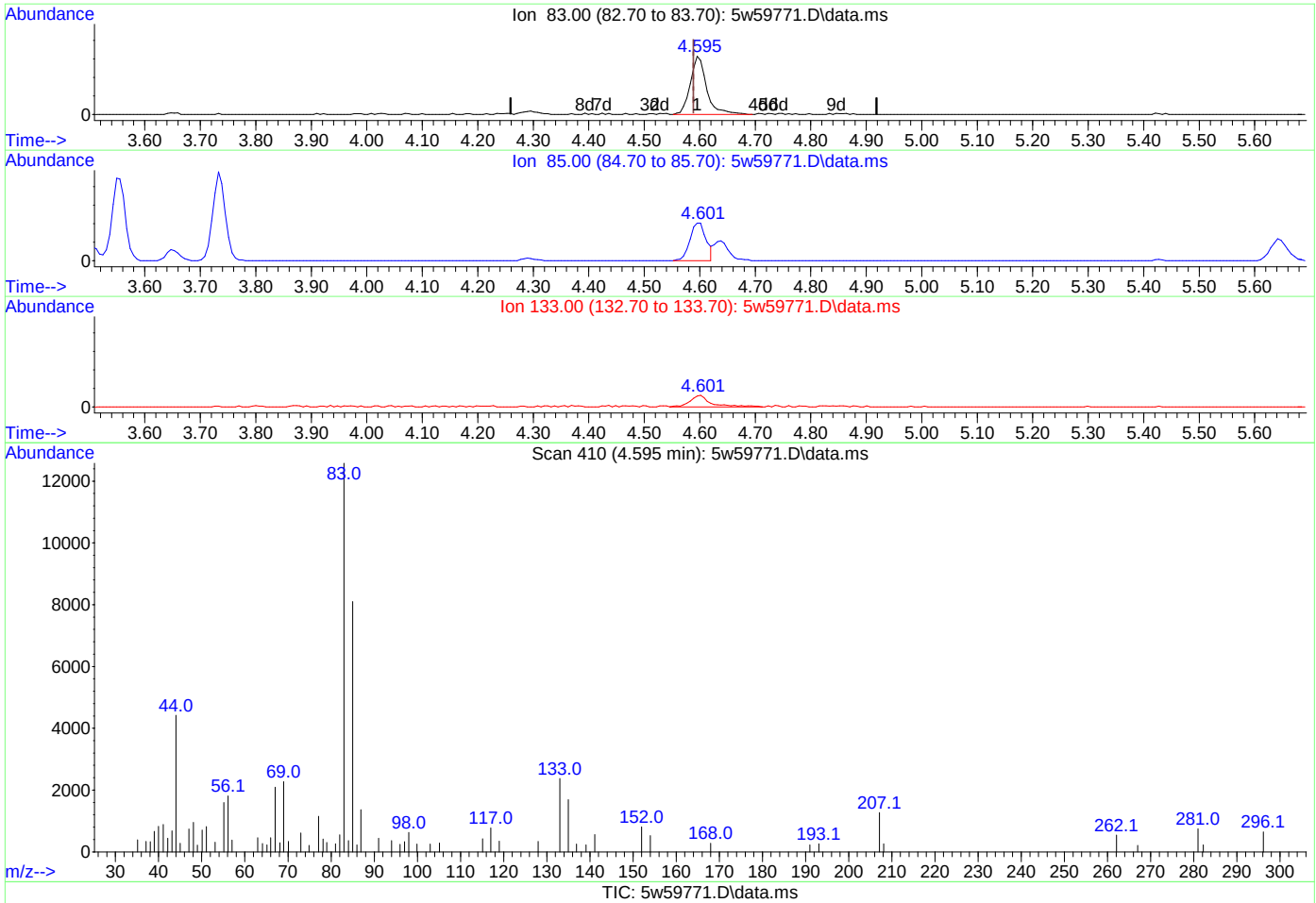
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.04#
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV m

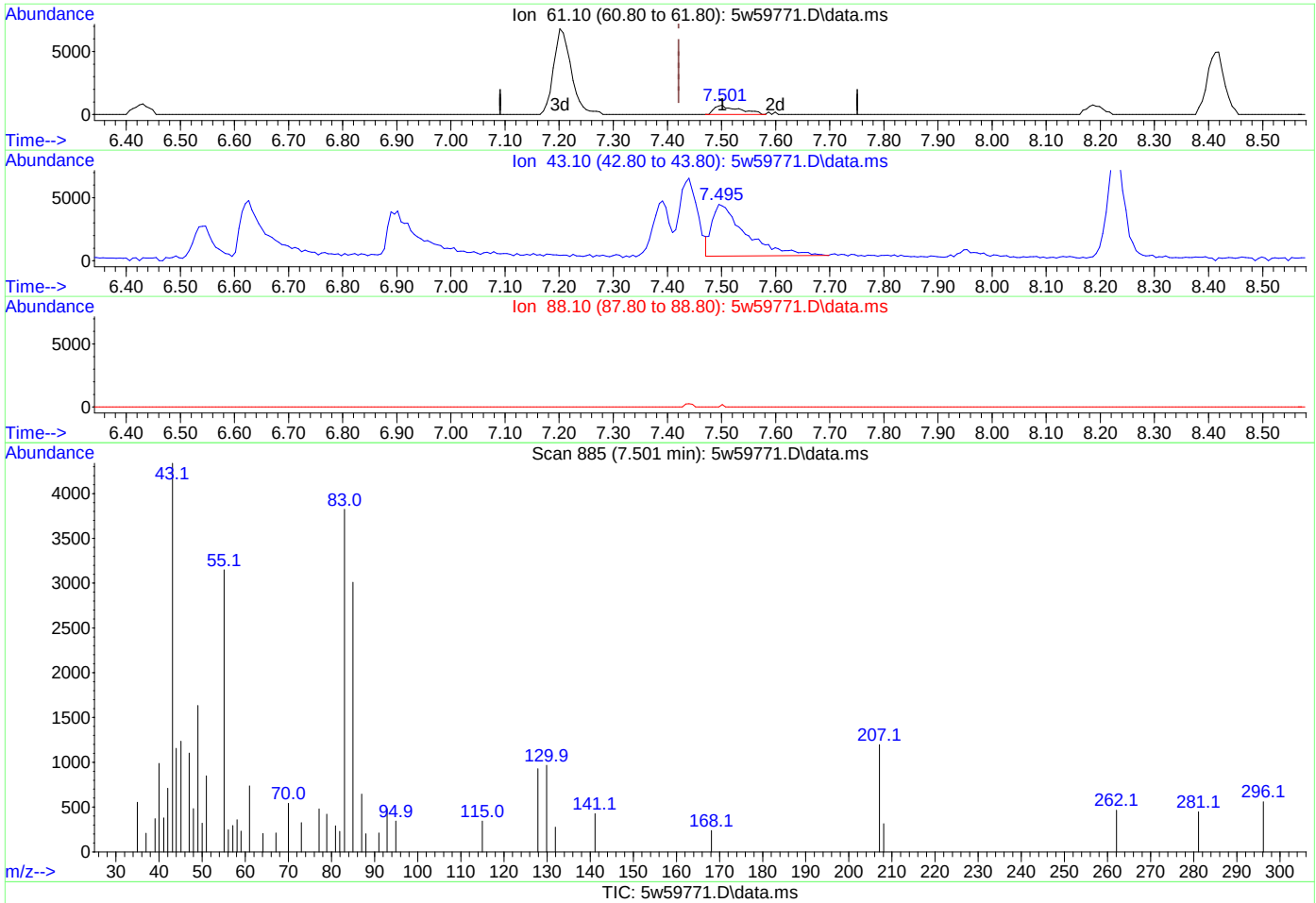
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	64.29
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV

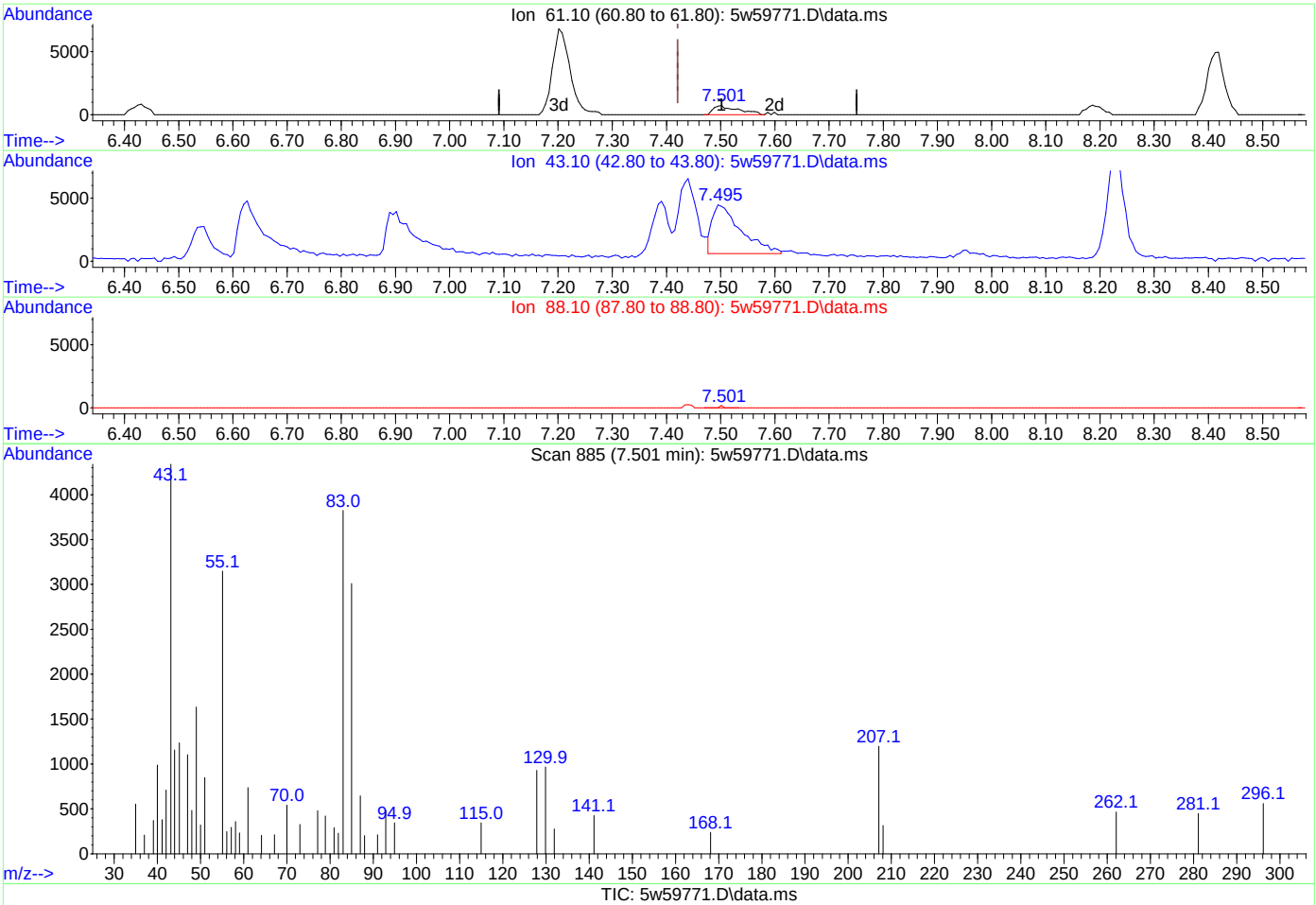
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	764.40#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV m

response 2309

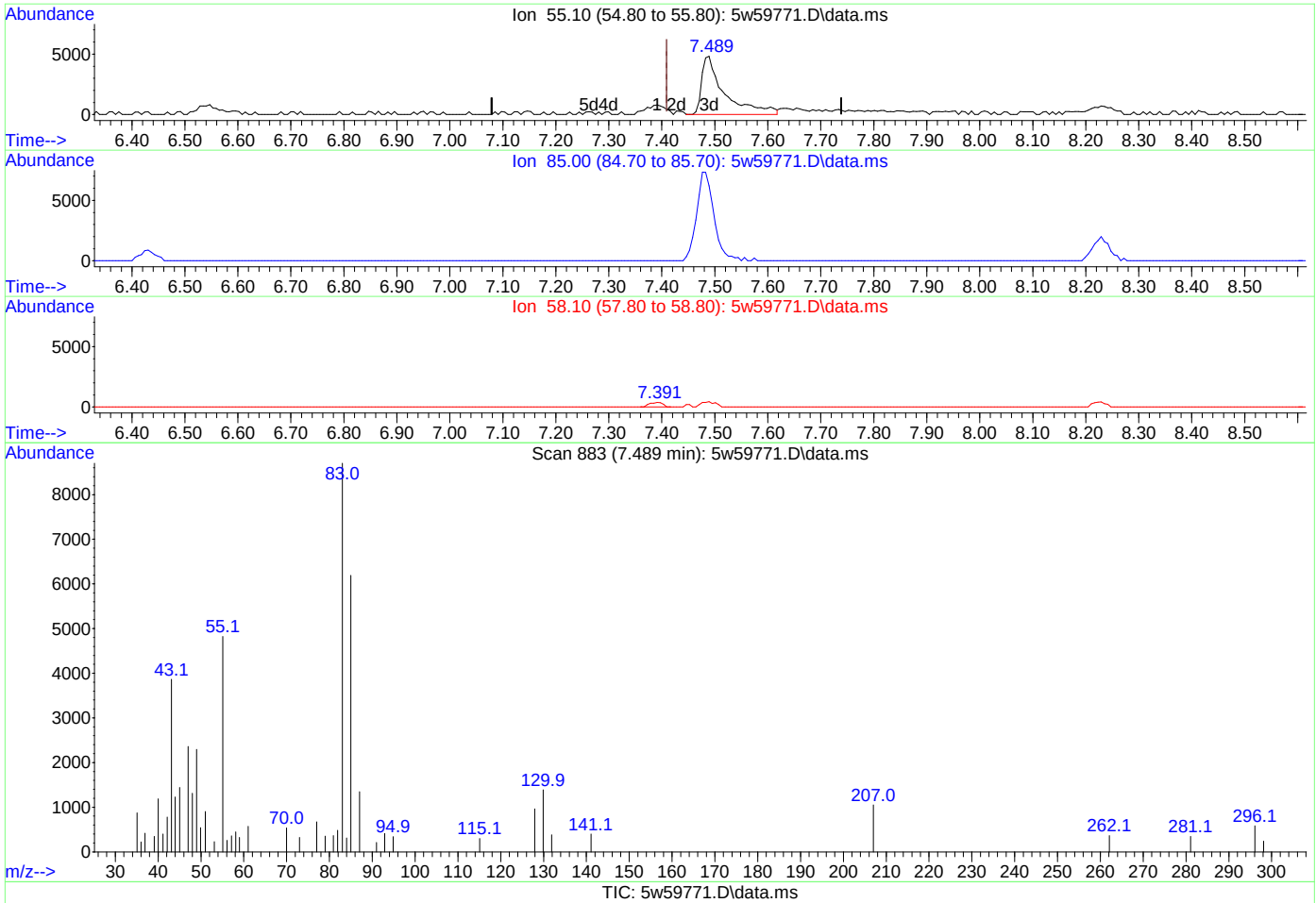
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	613.12
88.10	34.50	3.25#
0.00	0.00	0.00

5W59771.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.489min (+0.080) 0.17PPBV m

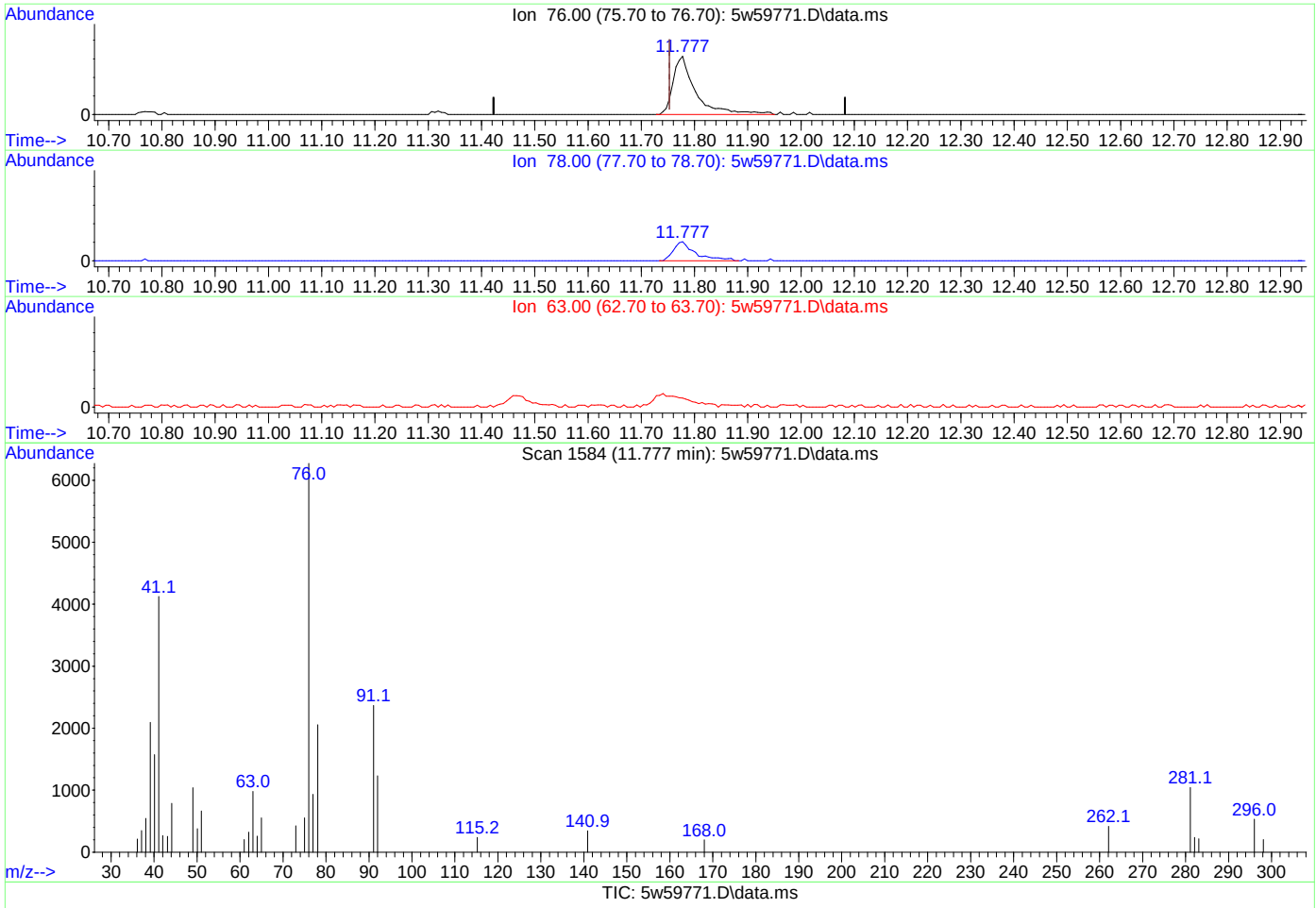
response 14366

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	4.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV

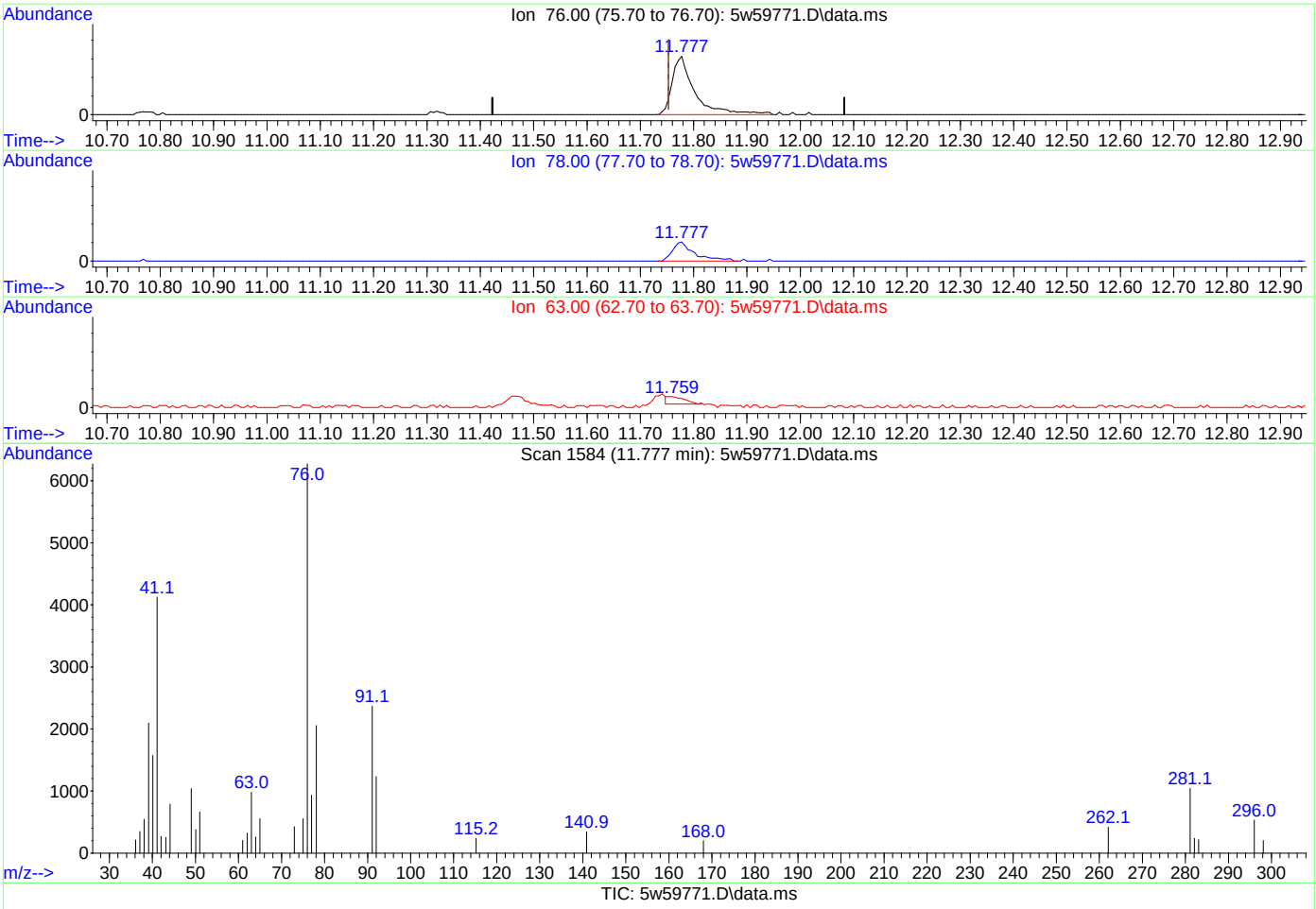
response 18562

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV m

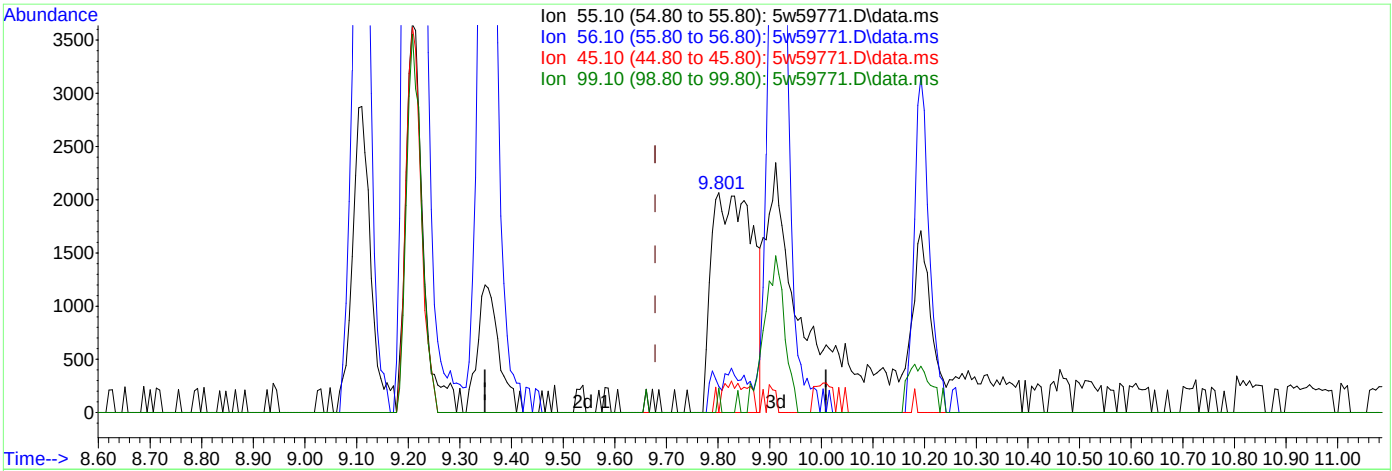
response 18562

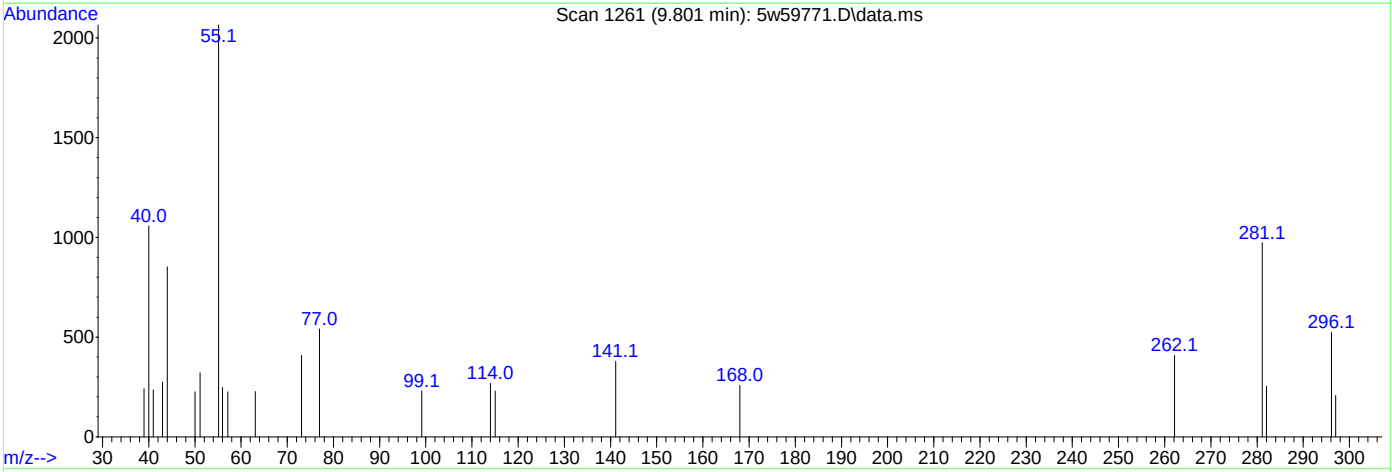
Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	9.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:17:39 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.801min (+0.122) 0.10PPBV m

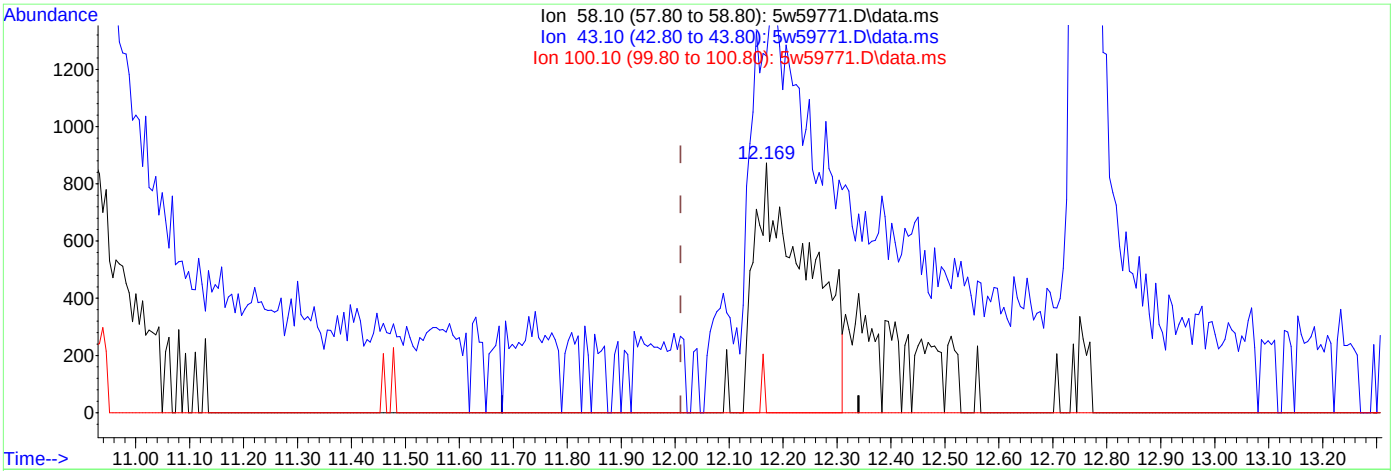
response 11494

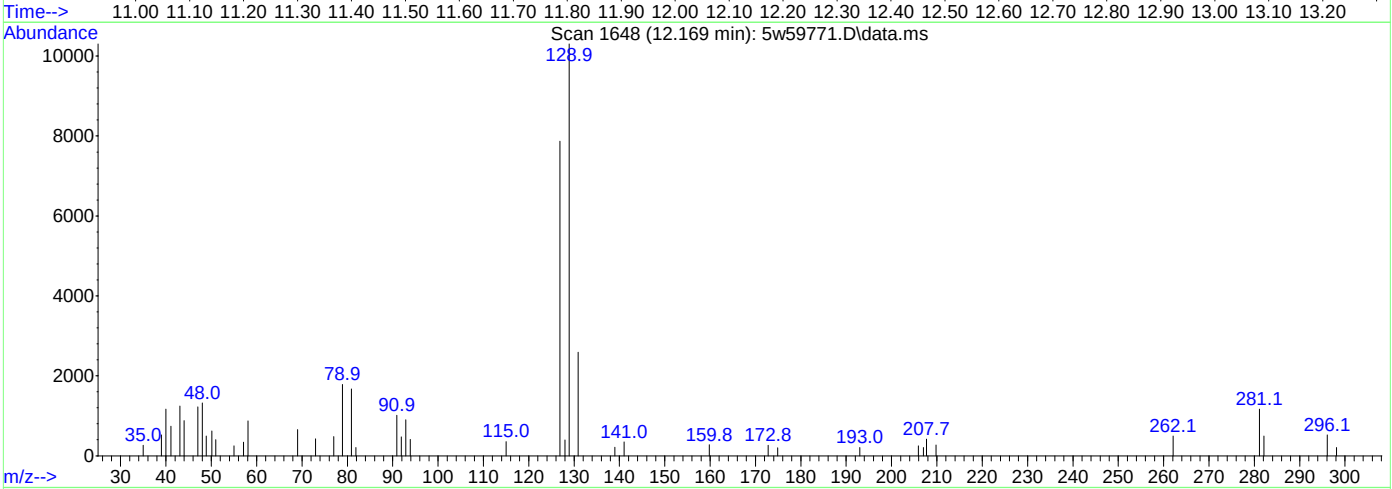
Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.11PPBV

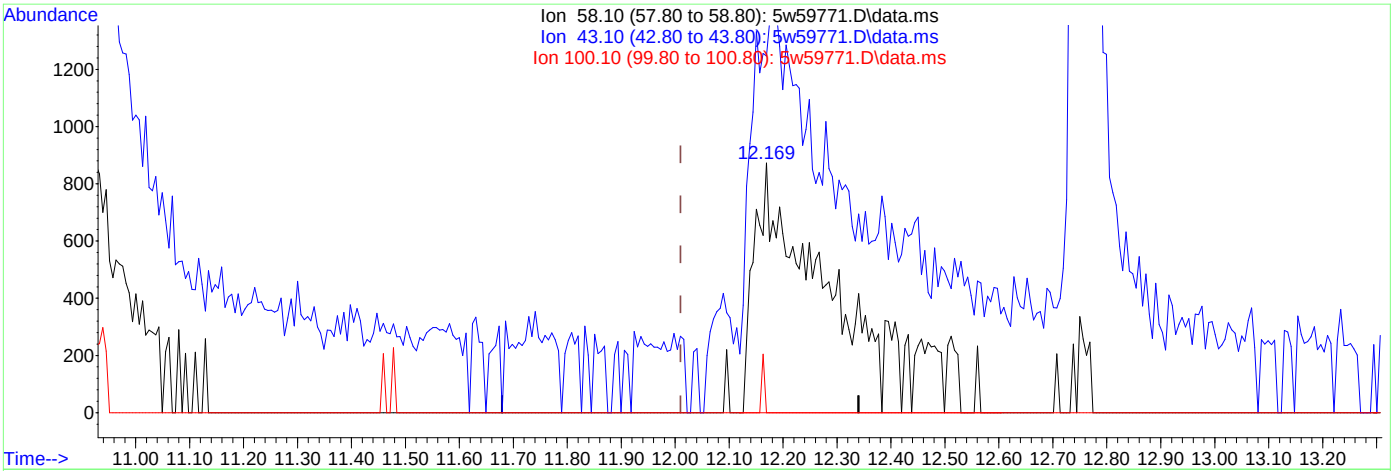
response 5939

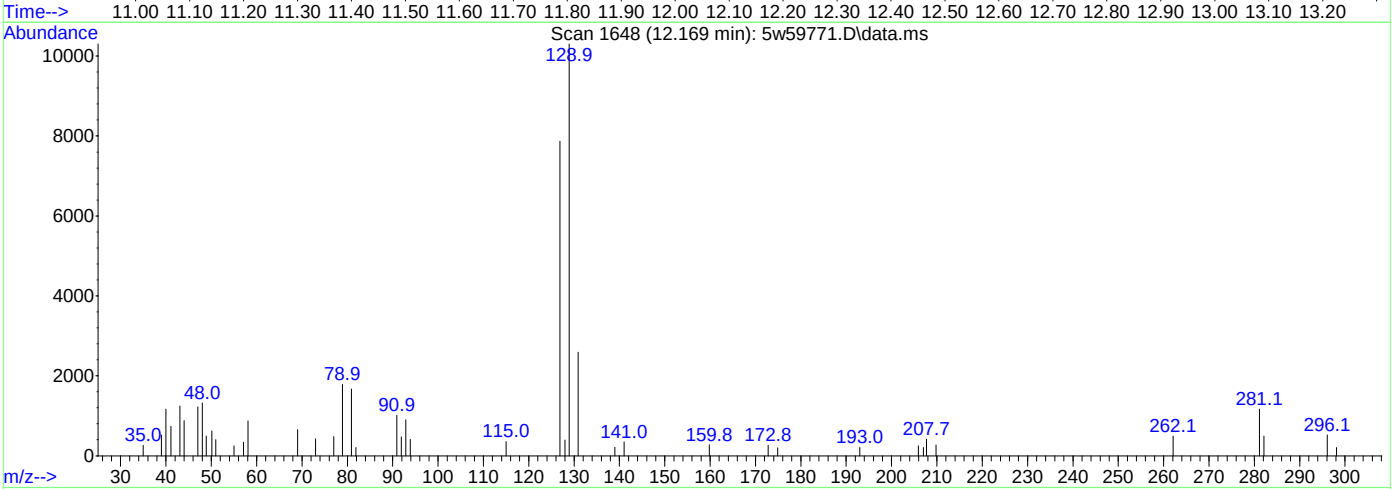
Ion	Exp%	Act%
58.10	100	100
43.10	167.20	158.80
100.10	16.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.16PPBV m

response 9038

Ion	Exp%	Act%
58.10	100	100
43.10	167.20	104.35#
100.10	16.90	0.00
0.00	0.00	0.00

5W59771.D edits: 2-HEXANONE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	472964	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2121089	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1052969	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	476464	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1418470	11.18	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.80%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	21944	0.27	PPBV		98
3) FREON 152A	3.445	65	16180	0.33	PPBV		98
4) CHLORODIFLUOROMETHANE	3.476	67	7935	0.34	PPBV		97
5) CHLOROTRIFLUOROETHENE	3.500	116	37384	0.32	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	74611	0.34	PPBV		99
7) PROPYLENE	3.500	41	19764	0.39	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	65023	0.39	PPBV		98
9) FREON 114	3.732	85	75616	0.38	PPBV		98
10) CHLOROMETHANE	3.665	52	8248	0.38	PPBV		89
11) VINYL CHLORIDE	3.818	62	25119	0.33	PPBV		95
12) 1,3-BUTADIENE	3.910	54	15745	0.37	PPBV		97
13) n-BUTANE	3.947	43	26092	0.38	PPBV	#	94
14) BROMOMETHANE	4.106	94	25633	0.33	PPBV		84
15) CHLOROETHANE	4.222	64	12538	0.39	PPBV		96
16) DICHLOROFLUOROMETHANE	4.289	67	56285	0.36	PPBV		97
17) ACETONITRILE	4.497	41	14827	0.37	PPBV		98
18) ACROLEIN	4.589	56	7542m	0.30	PPBV		
19) FREON 123	4.589	83	65470m	0.37	PPBV		
20) FREON 123A	4.632	117	39245	0.38	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.791	101	67375	0.36	PPBV		98
22) ISOPROPYL ALCOHOL	4.907	45	51138	0.37	PPBV		95
23) ACETONE	4.705	58	10630	0.38	PPBV		97
24) PENTANE	5.072	42	25466	0.38	PPBV		99
25) IODOMETHANE	5.250	142	79998	0.35	PPBV		100
26) 1,1-DICHLOROETHYLENE	5.317	96	27579	0.36	PPBV		96
27) CARBON DISULFIDE	5.672	76	72450	0.34	PPBV		99
28) ETHANOL	4.338	45	9883	0.39	PPBV		97
29) BROMOETHENE	4.479	106	27007	0.35	PPBV		98
30) ACRYLONITRILE	5.060	52	17143	0.37	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	22923	0.34	PPBV		98
32) 3-CHLOROPROPENE	5.525	76	12479	0.36	PPBV	#	88
33) FREON 113	5.641	151	45001	0.33	PPBV		99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	28115	0.35	PPBV		87
35) TERTIARY BUTYL ALCOHOL	5.439	59	48711	0.31	PPBV		96
36) METHYL TERTIARY BUTYL ...	6.516	73	72222	0.36	PPBV		95
37) TETRAHYDROFURAN	7.917	72	9128	0.29	PPBV	#	81
38) HEXANE	7.385	57	38643	0.34	PPBV		92
39) VINYL ACETATE	6.602	86	2461	0.19	PPBV	#	68
40) 1,1-DICHLOROETHANE	6.424	63	51689	0.36	PPBV		98
41) METHYL ETHYL KETONE	6.859	72	9022	0.28	PPBV		97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	29380	0.35	PPBV		94
43) DIISOPROPYL ETHER	7.415	59	10994	0.31	PPBV	#	84
44) ETHYL ACETATE	7.470	61	7547	0.29	PPBV	#	73
45) METHYL ACRYLATE	7.452	55	42153m	0.30	PPBV		
46) CHLOROFORM	7.477	83	58038	0.34	PPBV		88
47) 2,4-DIMETHYLPENTANE	8.223	57	46136	0.34	PPBV		99
48) 1,1,1-TRICHLOROETHANE	8.413	97	60433	0.34	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	65062	0.33	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	41098	0.34	PPBV		99
52)	BENZENE	8.859	78	76538	0.34	PPBV		99
53)	CYCLOHEXANE	9.110	84	30877	0.34	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	14658	0.32	PPBV		92
55)	TRICHLOROETHYLENE	9.893	95	37369	0.32	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	33377	0.35	PPBV		96
57)	DIBROMOMETHANE	9.636	174	39103	0.31	PPBV		97
58)	ETHYL ACRYLATE	9.740	55	44771	0.25	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	64038	0.31	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	127085	0.35	PPBV		99
61)	1,4-DIOXANE	9.973	88	17043	0.32	PPBV	#	1
62)	HEPTANE	10.187	43	45917	0.38	PPBV		94
63)	METHYL METHACRYLATE	10.144	69	24229	0.31	PPBV	#	60
64)	METHYL ISOBUTYL KETONE	10.854	58	20298	0.27	PPBV		89
65)	cis-1,3-DICHLOROPROPENE	10.762	75	50330	0.32	PPBV		85
66)	TOLUENE	11.728	92	53175	0.31	PPBV		97
67)	1,3-DICHLOROPROPANE	11.765	76	45275	0.32	PPBV	#	92
68)	trans-1,3-DICHLOROPROPENE	11.300	75	44098	0.30	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.459	83	29376	0.31	PPBV		99
71)	2-HEXANONE	12.077	58	24053	0.25	PPBV		89
72)	ETHYL METHACRYLATE	12.053	69	39133	0.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	42039	0.36	PPBV		97
74)	DIBROMOCHLOROMETHANE	12.157	129	68347	0.33	PPBV		100
75)	1,2-DIBROMOETHANE	12.401	107	57560	0.36	PPBV		99
76)	OCTANE	12.750	43	57196	0.37	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	44229	0.34	PPBV		99
78)	CHLOROBENZENE	13.588	112	76482	0.36	PPBV		99
79)	ETHYLBENZENE	13.992	91	119442	0.37	PPBV		98
80)	m,p-XYLENE	14.175	106	91065	0.70	PPBV		98
81)	o-XYLENE	14.683	106	43793	0.35	PPBV		94
82)	STYRENE	14.585	104	68779	0.36	PPBV		91
83)	NONANE	14.934	43	61419	0.39	PPBV		97
84)	BROMOFORM	14.255	173	65517	0.31	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	78542	0.37	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.830	75	59513	0.37	PPBV		94
88)	ISOPROPYLBENZENE	15.301	105	132085	0.35	PPBV		99
89)	BROMOBENZENE	15.381	77	64086	0.34	PPBV		99
90)	2-CHLOROTOLUENE	15.778	126	34084	0.33	PPBV		96
91)	n-PROPYLBENZENE	15.821	120	35058	0.34	PPBV		100
92)	4-ETHYLTOLUENE	15.968	105	126699	0.35	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	115870	0.38	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.206	118	51966	0.31	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	23128	0.35	PPBV		93
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	112549	0.37	PPBV		98
97)	m-DICHLOROBENZENE	16.586	146	80323	0.33	PPBV		99
98)	BENZYL CHLORIDE	16.580	91	94193	0.31	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	89982	0.38	PPBV		99
100)	sec-BUTYLBENZENE	16.702	134	28746	0.34	PPBV	#	87
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	117540	0.37	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	34620	0.35	PPBV		94
103)	o-DICHLOROBENZENE	16.983	146	81336	0.35	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	31100	0.32	PPBV	#	83
105)	HEXACHLOROETHANE	17.607	117	56860	0.36	PPBV		98
106)	HEXACHLOROBUTADIENE	18.966	225	78824	0.35	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.892	180	74442	0.33	PPBV		99
108)	NAPHTHALENE	18.672	128	165689	0.33	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	163703	0.37	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

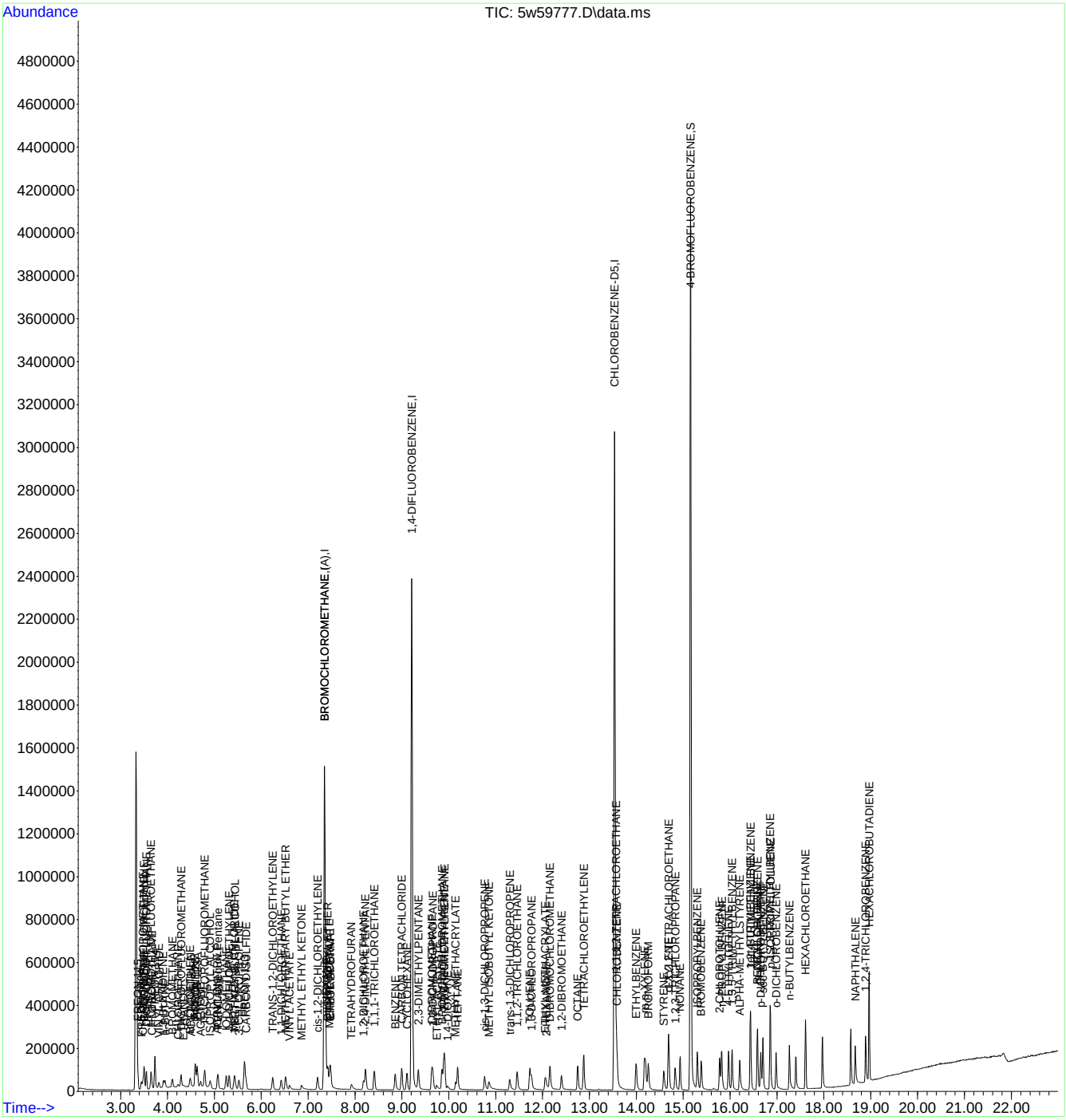
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

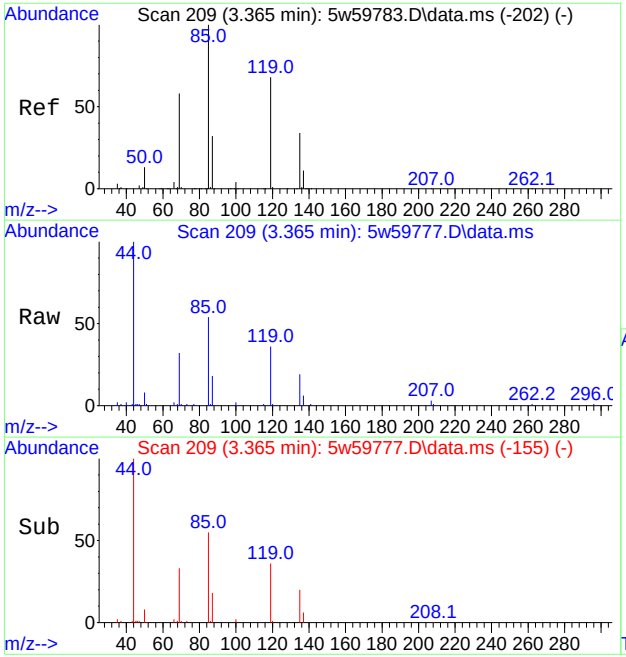
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

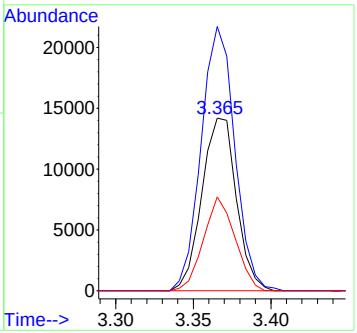


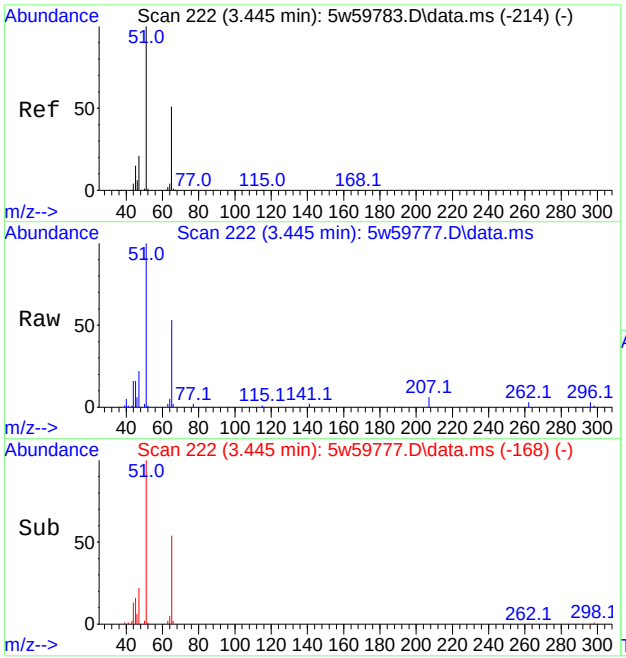


#2
FREON 115
Concen: 0.27 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:119 Resp: 21944

Ion	Ratio	Lower	Upper
119	100		
85	148.6	116.2	176.2
135	49.6	20.6	80.6

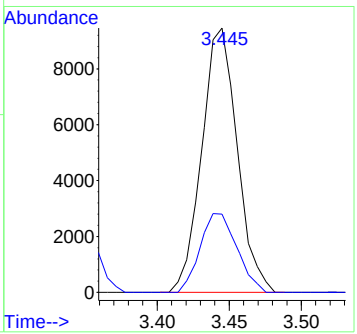


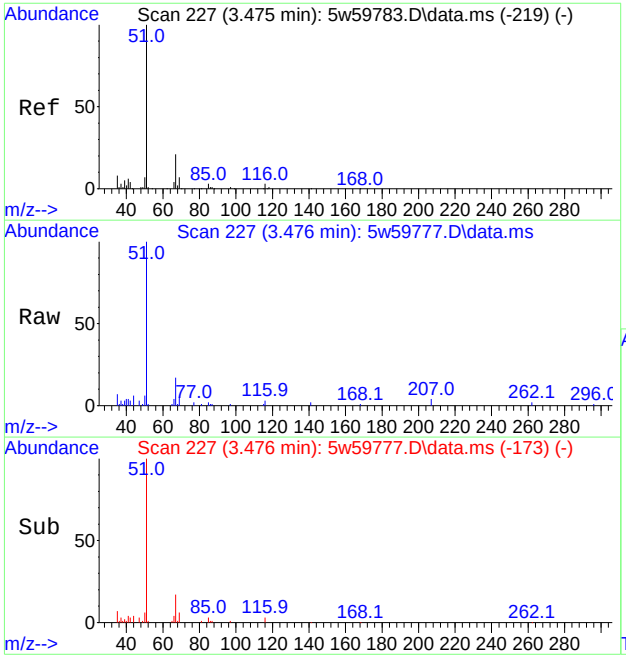


#3
FREON 152A
Concen: 0.33 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 16180

Ion	Ratio	Lower	Upper
65	100		
45	31.0	0.0	60.0

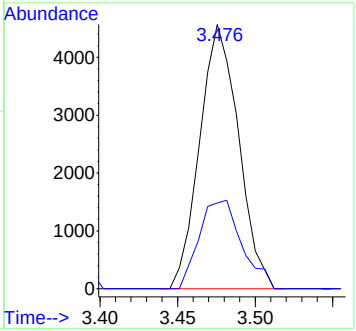


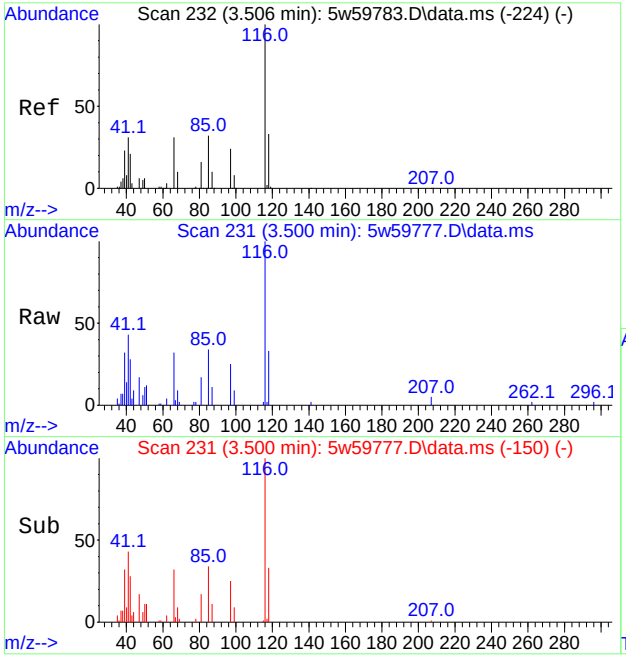


#4
CHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 7935

Ion	Ratio	Lower	Upper
67	100		
69	32.4	1.0	61.0

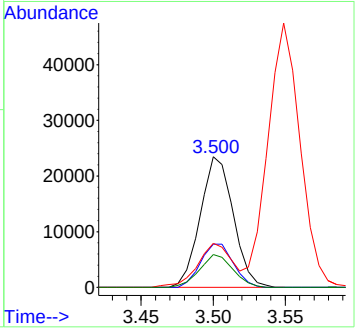


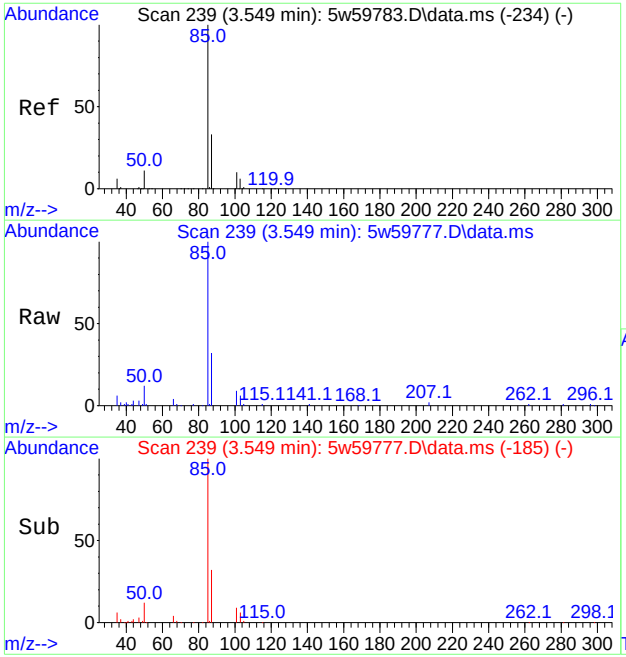


#5
CHLOROTRIFLUOROETHENE
Concen: 0.32 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:116 Resp: 37384

Ion	Ratio	Lower	Upper
116	100		
118	33.2	22.9	42.5
85	35.1	23.7	44.1
97	25.3	17.0	31.6

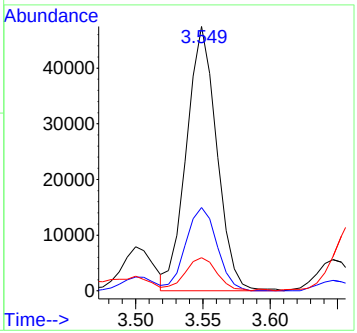


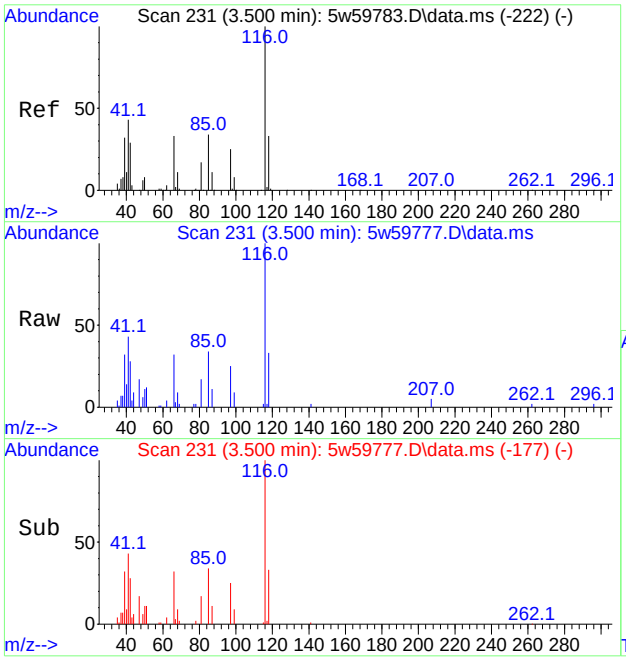


#6
DICHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 74611

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	13.2	0.0	41.7

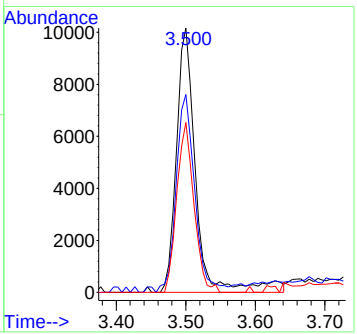


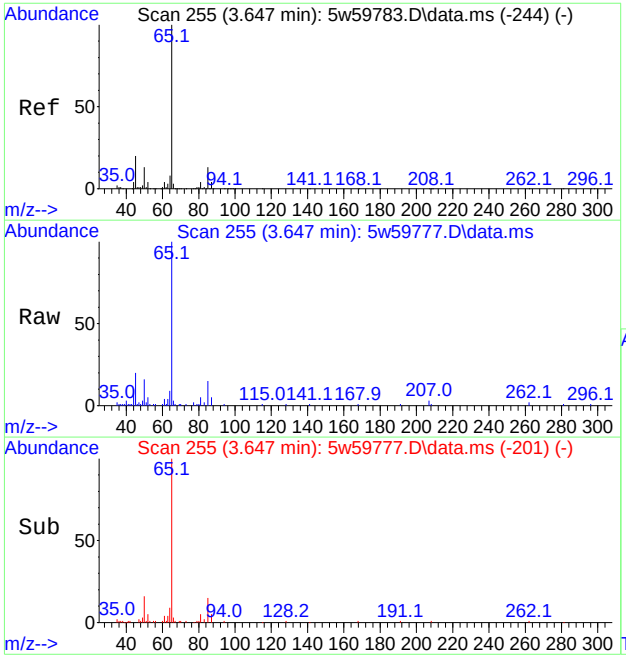


#7
PROPYLENE
Concen: 0.39 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 19764

Ion	Ratio	Lower	Upper
41	100		
39	87.7	45.1	105.1
42	56.8	36.3	96.3

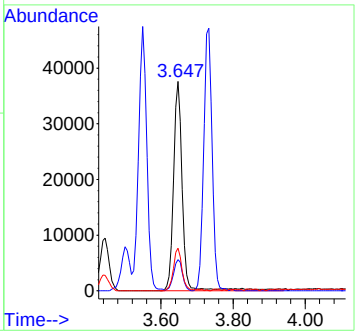


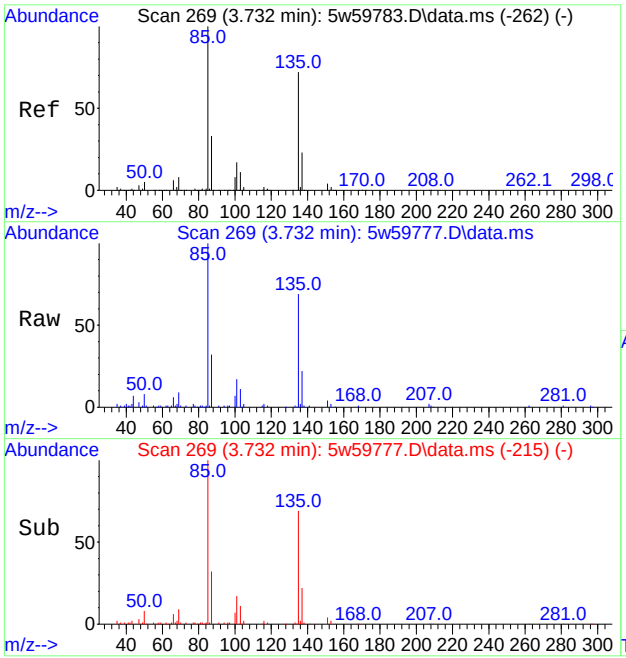


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.39 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 65023

Ion	Ratio	Lower	Upper
65	100		
85	15.0	11.5	21.3
45	20.1	14.0	26.0

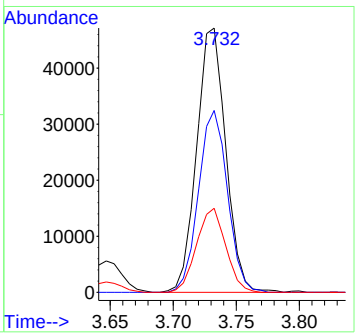


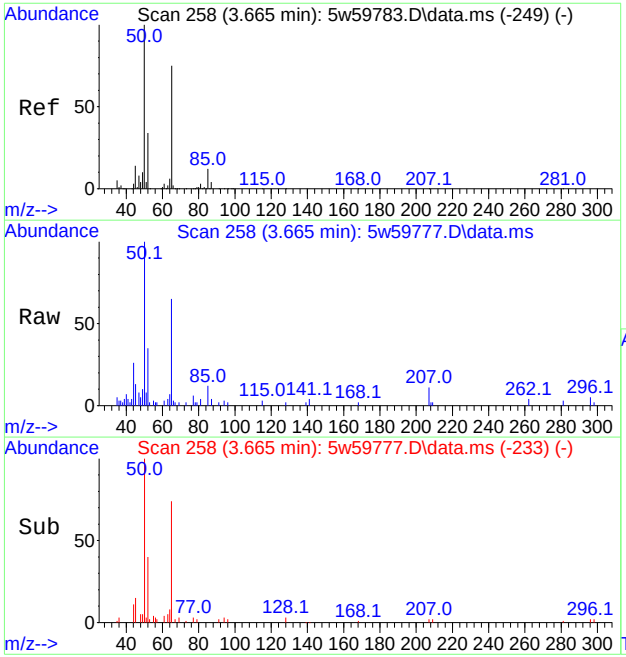


#9
FREON 114
Concen: 0.38 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 75616

Ion	Ratio	Lower	Upper
85	100		
135	68.6	40.5	100.5
87	31.9	3.0	63.0

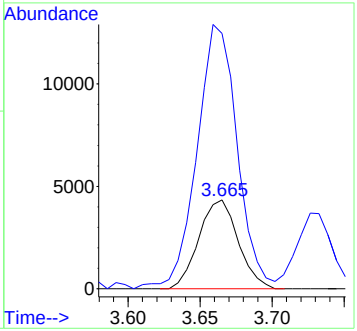


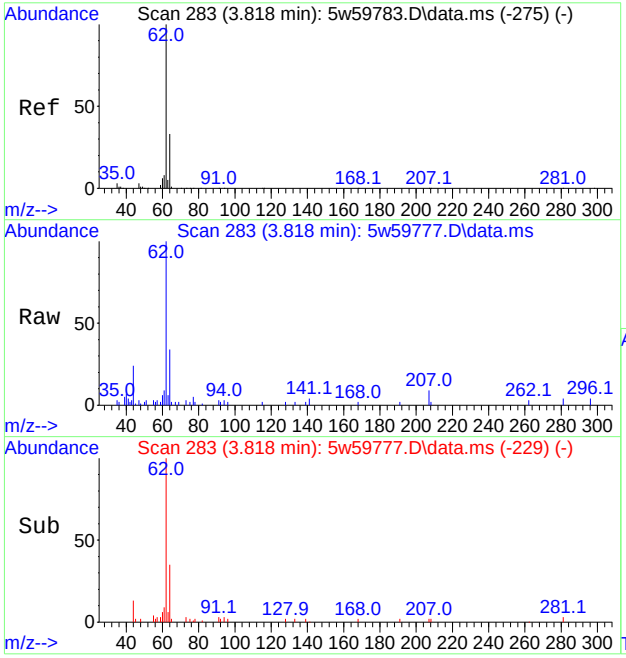


#10
CHLOROMETHANE
Concen: 0.38 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 8248

Ion	Ratio	Lower	Upper
52	100		
50	276.5	267.9	327.9

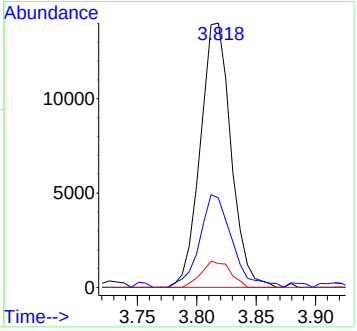


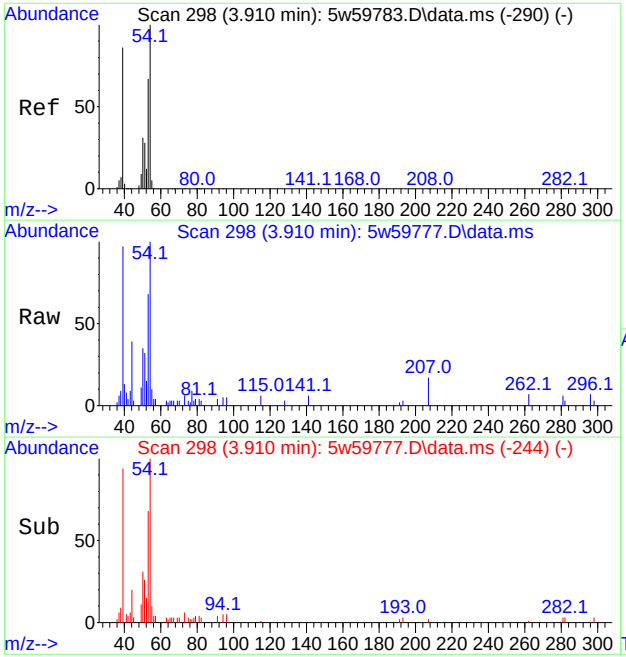


#11
VINYL CHLORIDE
Concen: 0.33 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 25119

Ion	Ratio	Lower	Upper
62	100		
64	36.8	3.6	63.6
61	9.4	0.0	38.2

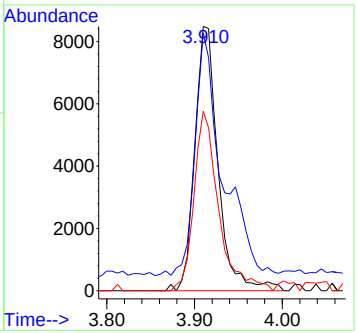


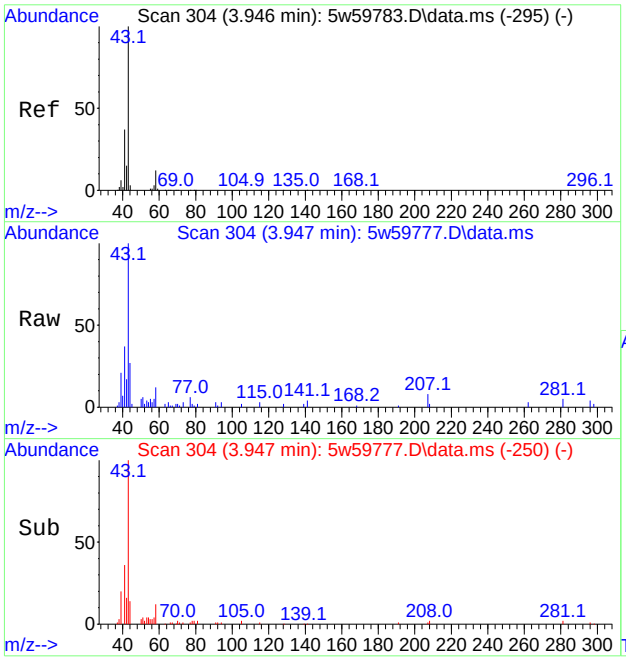


#12
1,3-BUTADIENE
Concen: 0.37 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 54 Resp: 15745

Ion	Ratio	Lower	Upper
54	100		
39	115.9	82.0	142.0
53	71.6	40.2	100.2

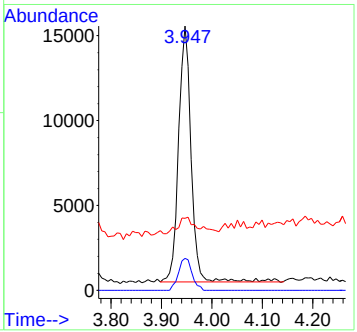


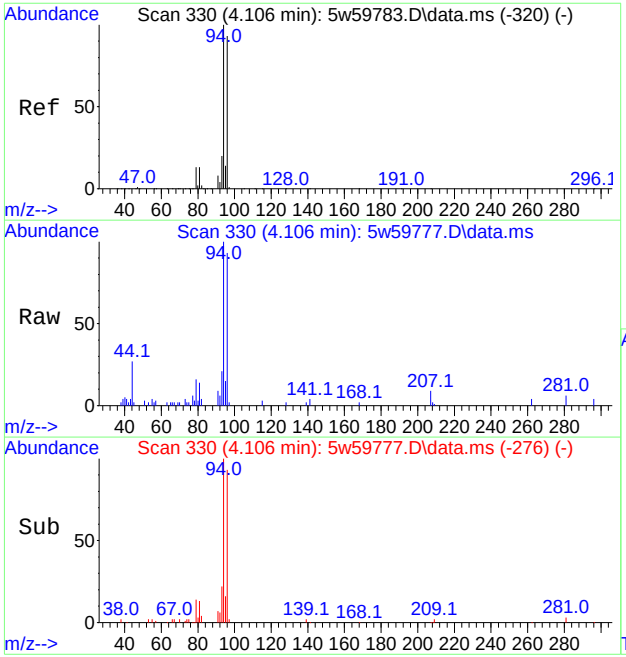


#13
n-BUTANE
Concen: 0.38 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 26092

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	0.0	0.0	34.9

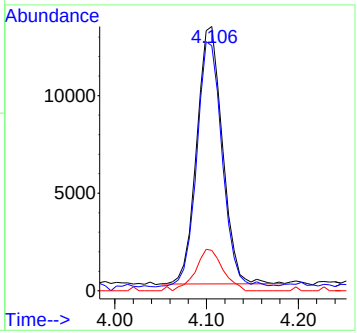


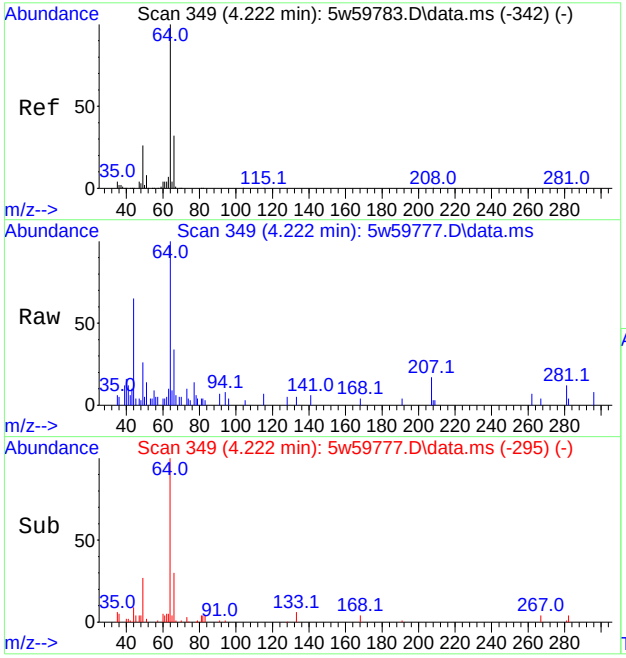


#14
BROMOMETHANE
Concen: 0.33 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 94 Resp: 25633

Ion	Ratio	Lower	Upper
94	100		
96	111.8	65.3	125.3
95	17.3	0.0	44.1

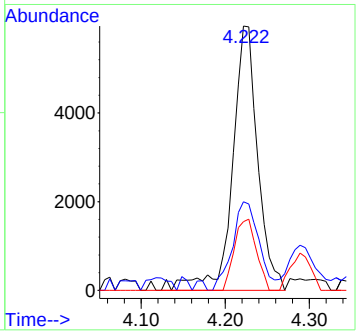


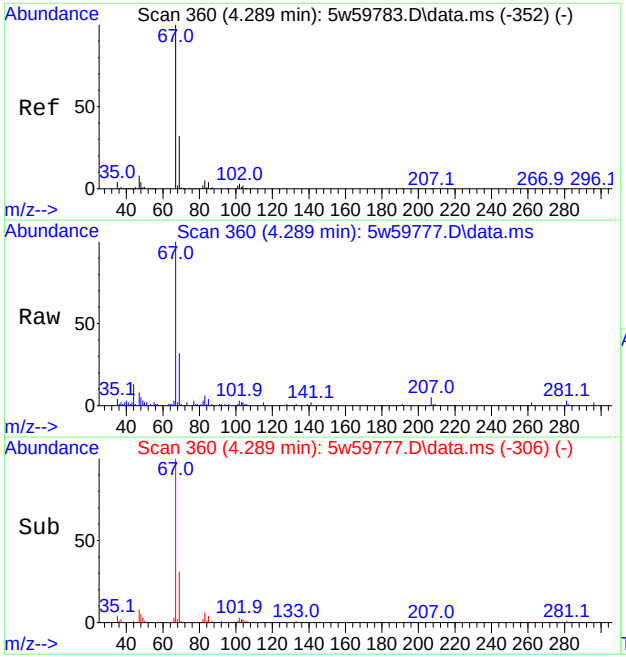


#15
CHLOROETHANE
Concen: 0.39 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 64 Resp: 12538

Ion	Ratio	Lower	Upper
64	100		
66	34.9	3.1	63.1
49	23.3	0.0	55.3

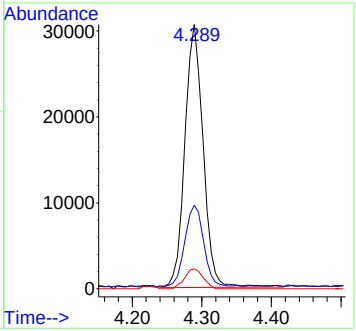


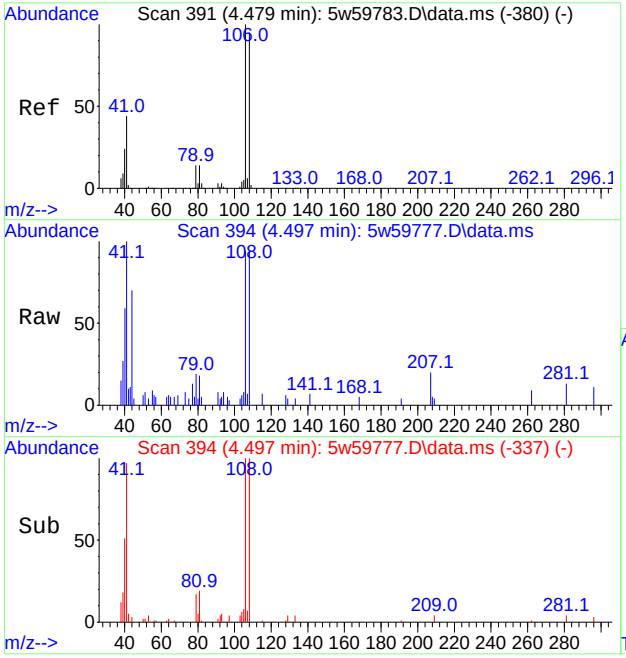


#16
DICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 56285

Ion	Ratio	Lower	Upper
67	100		
69	34.4	22.7	42.3
47	7.6	5.6	10.4

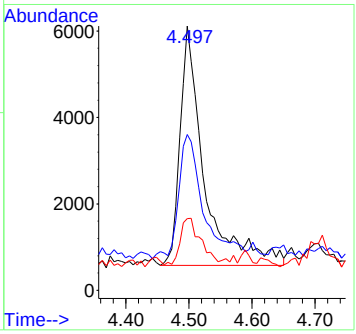




#17
ACETONITRILE
Concen: 0.37 PPBV
RT: 4.497 min Scan# 394
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

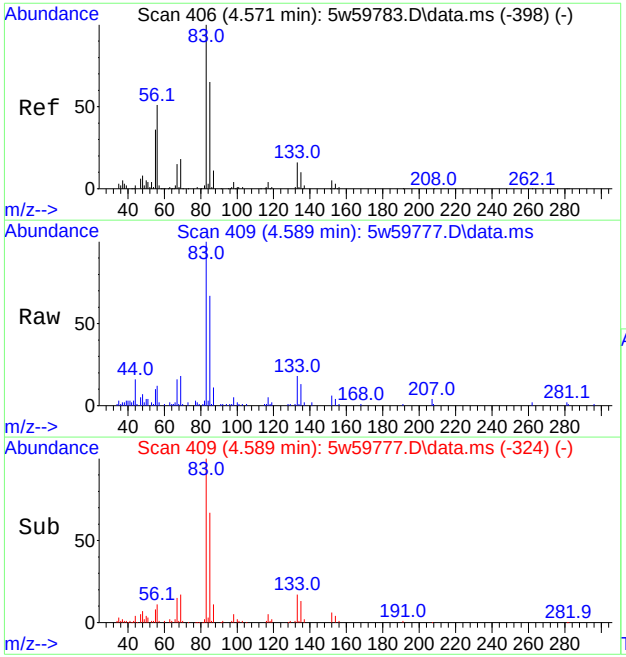
Tgt Ion: 41 Resp: 14827

Ion	Ratio	Lower	Upper
41	100		
40	55.5	37.9	70.5
39	17.7	13.4	24.8



7.7.4

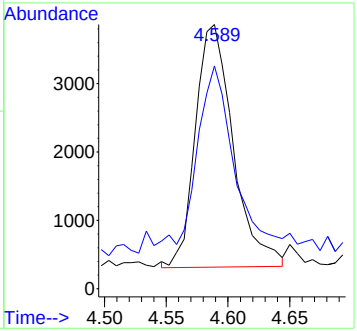
7

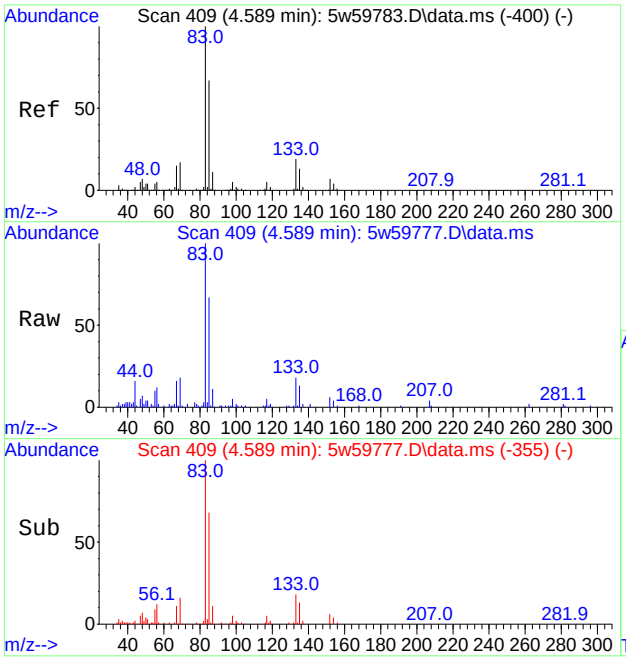


#18
ACROLEIN
Concen: 0.30 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 56 Resp: 7542

Ion	Ratio	Lower	Upper
56	100		
55	78.8	46.6	86.6

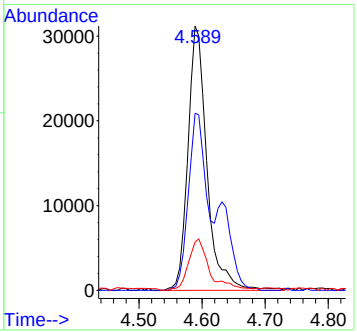


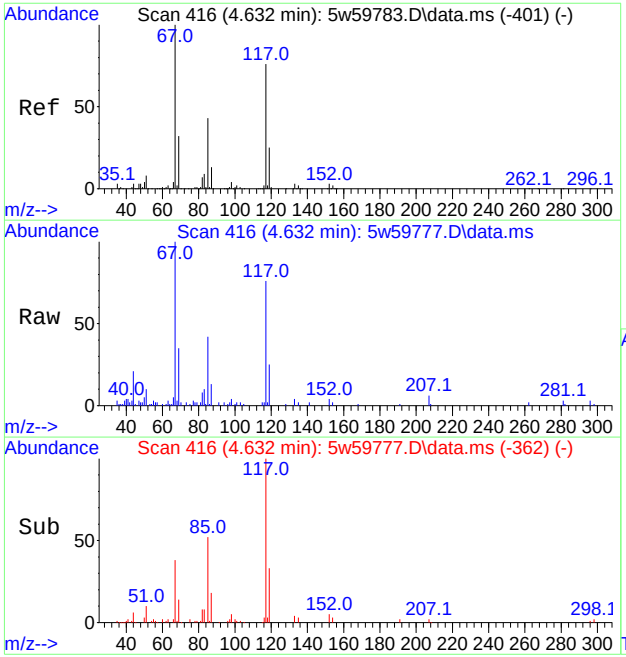


#19
FREON 123
Concen: 0.37 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 65470

Ion	Ratio	Lower	Upper
83	100		
85	65.8	34.0	94.0
133	22.6	0.0	50.7

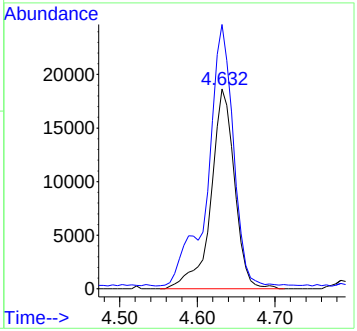


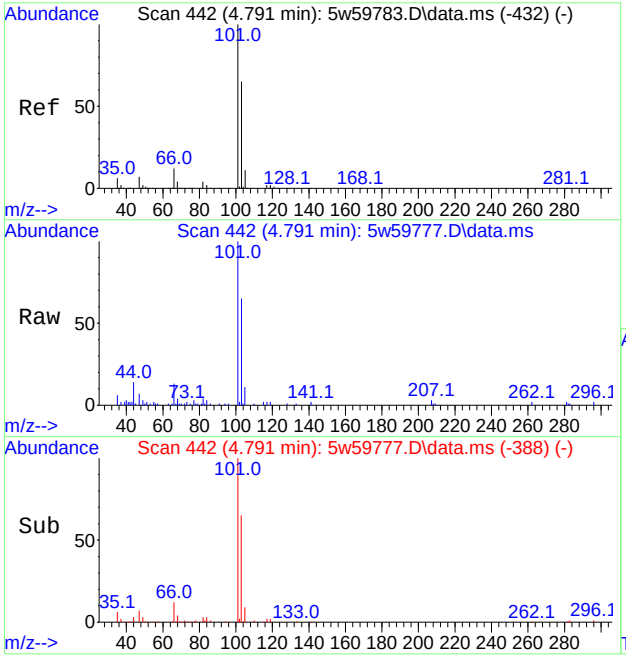


#20
FREON 123A
Concen: 0.38 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 39245

Ion	Ratio	Lower	Upper
117	100		
67	143.3	114.6	174.6

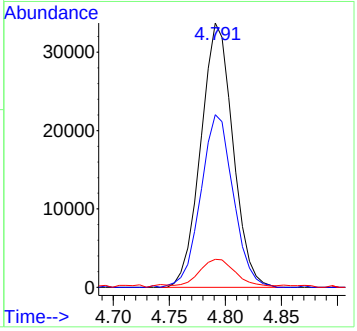


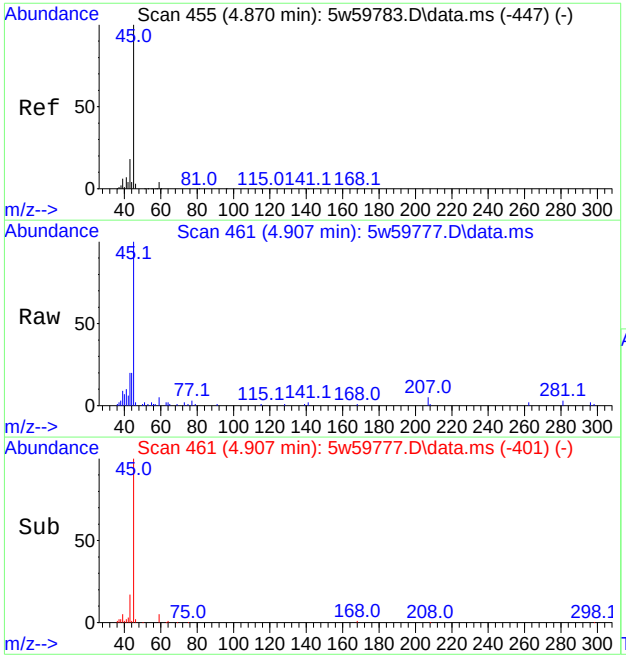


#21
TRICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:101 Resp: 67375

Ion	Ratio	Lower	Upper
101	100		
103	66.3	35.0	95.0
105	12.9	0.0	40.7

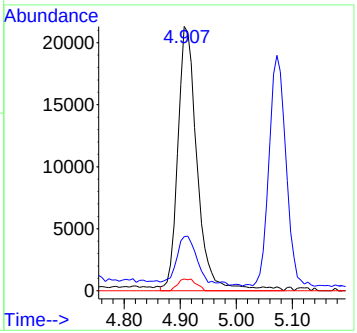


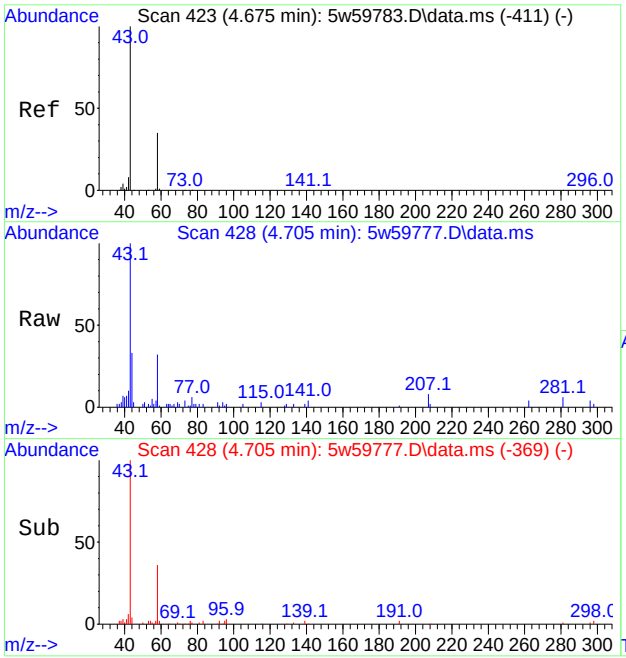


#22
ISOPROPYL ALCOHOL
Concen: 0.37 PPBV
RT: 4.907 min Scan# 461
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 51138

Ion	Ratio	Lower	Upper
45	100		
43	20.4	0.0	47.8
59	4.5	0.0	34.1

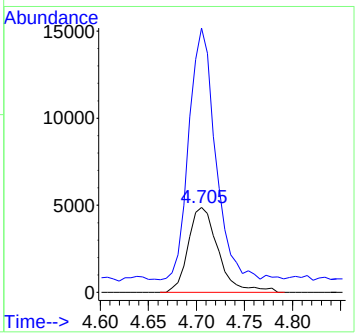


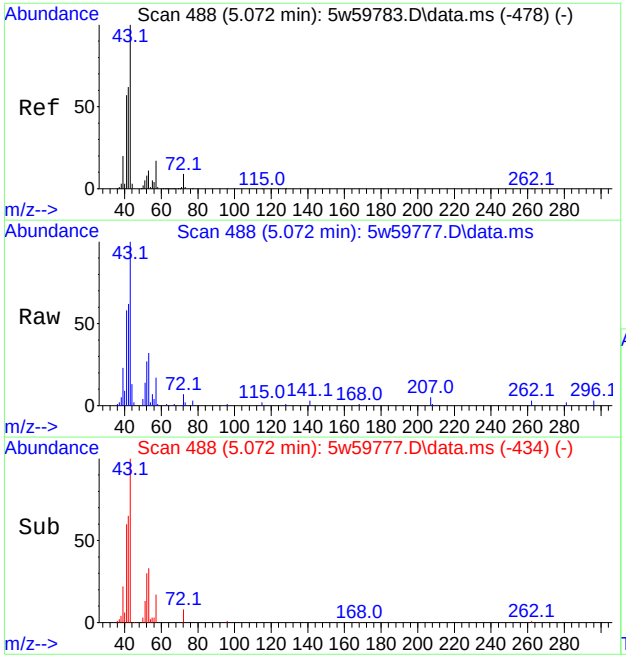


#23
ACETONE
Concen: 0.38 PPBV
RT: 4.705 min Scan# 428
Delta R.T. 0.030 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 10630

Ion	Ratio	Lower	Upper
58	100		
43	277.1	252.3	312.3

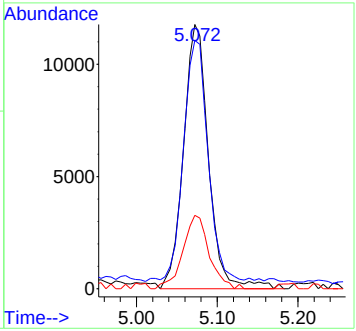


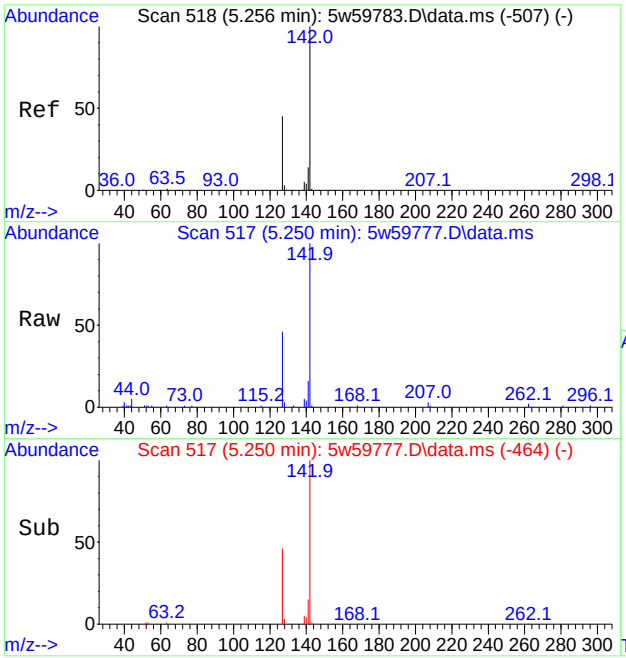


#24
PENTANE
Concen: 0.38 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 42 Resp: 25466

Ion	Ratio	Lower	Upper
42	100		
41	92.5	62.3	122.3
57	29.1	0.0	57.7

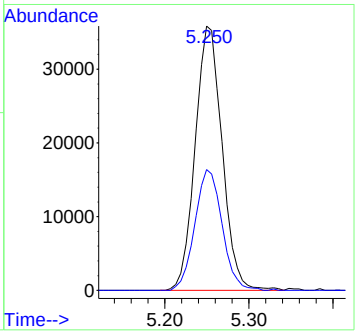


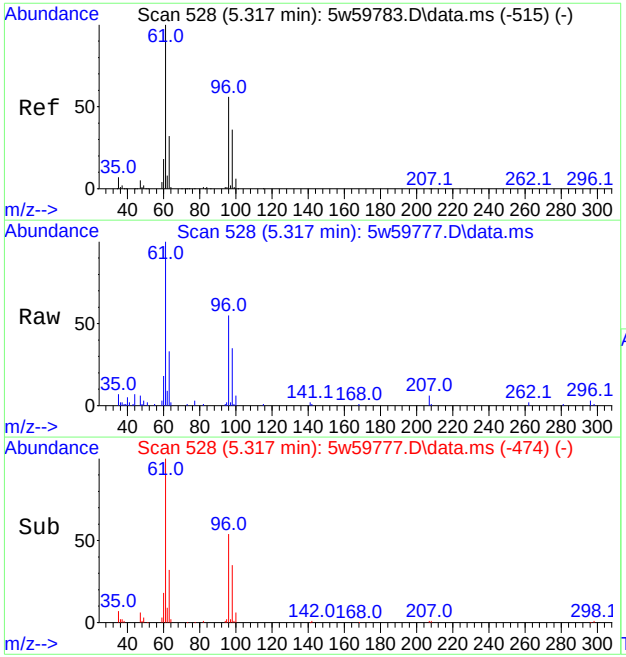


#25
IODOMETHANE
Concen: 0.35 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:142 Resp: 79998

Ion	Ratio	Lower	Upper
142	100		
127	46.1	16.0	76.0

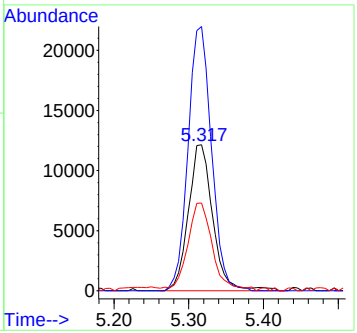


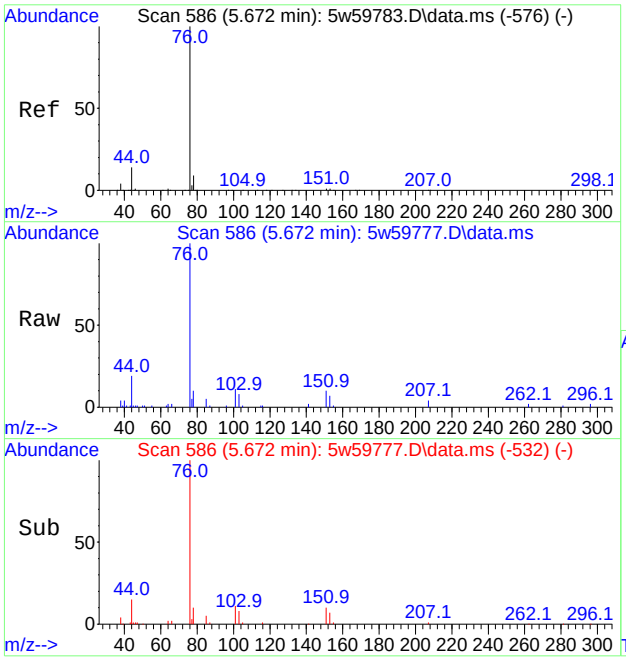


#26
1,1-DICHLOROETHYLENE
Concen: 0.36 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 27579

Ion	Ratio	Lower	Upper
96	100		
61	173.2	148.5	208.5
63	60.6	27.4	87.4

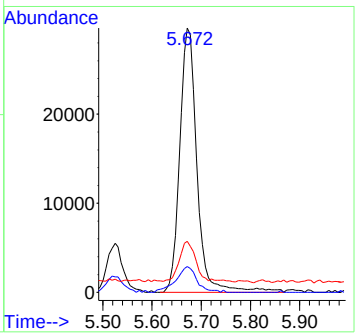


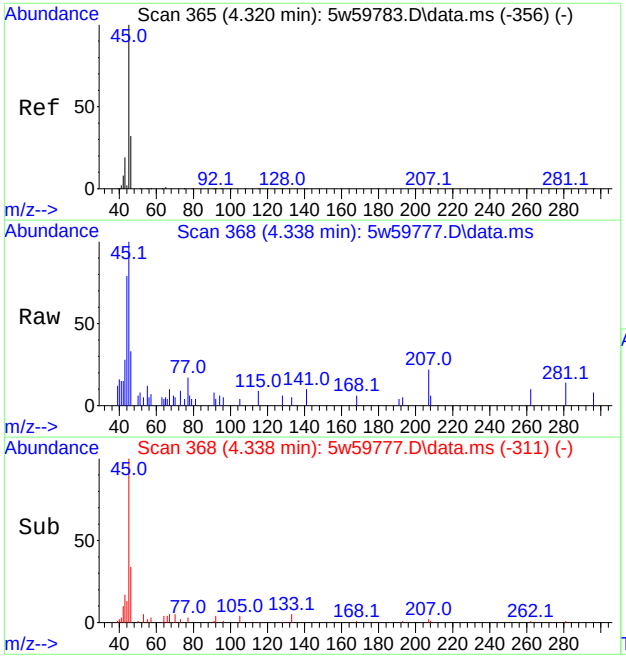


#27
CARBON DISULFIDE
Concen: 0.34 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 72450

Ion	Ratio	Lower	Upper
76	100		
78	11.8	0.0	41.5
44	15.1	0.0	44.6

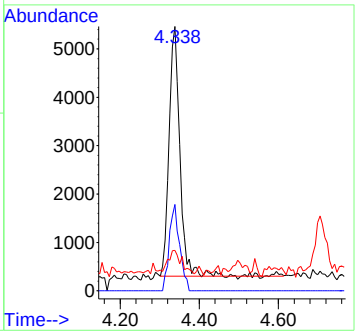


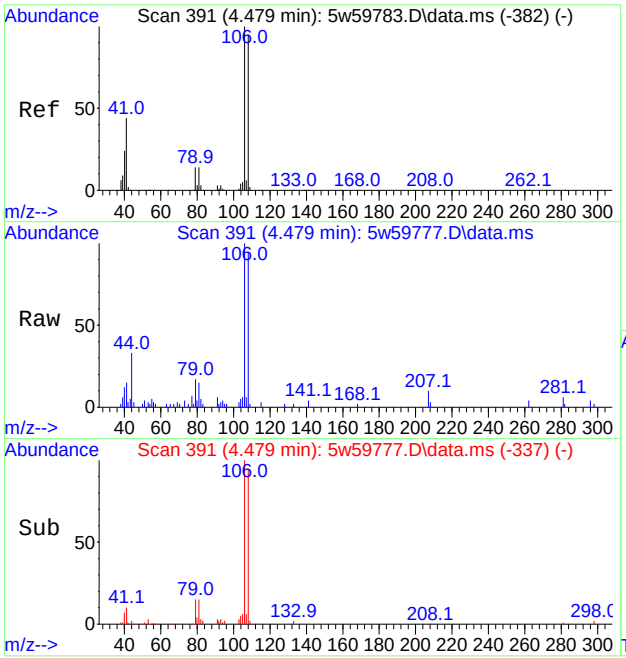


#28
ETHANOL
Concen: 0.39 PPBV
RT: 4.338 min Scan# 368
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 9883

Ion	Ratio	Lower	Upper
45	100		
46	32.7	2.0	62.0
42	12.7	0.0	38.5

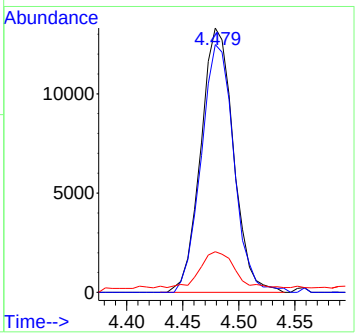


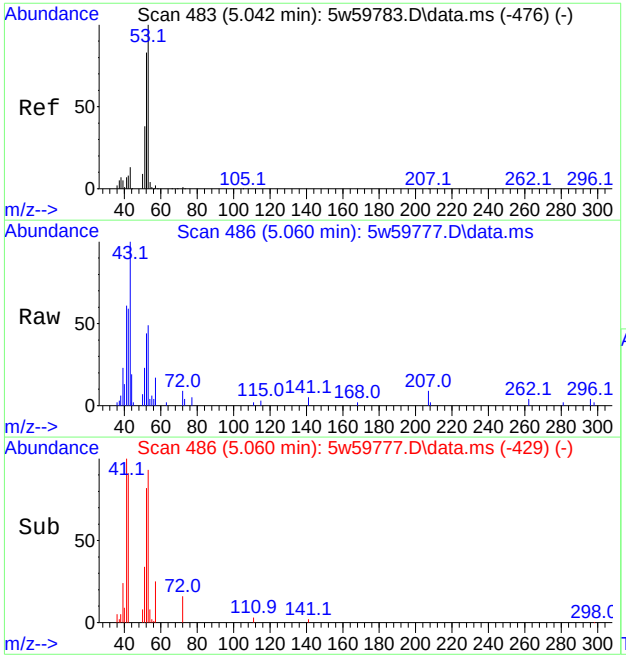


#29
BROMOETHENE
Concen: 0.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 27007

Ion	Ratio	Lower	Upper
106	100		
108	93.9	65.6	125.6
81	13.1	0.0	43.9

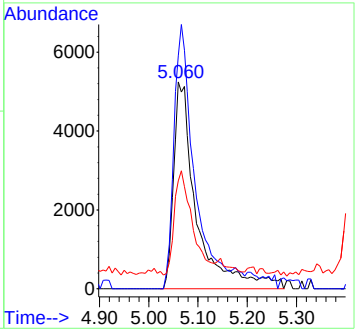


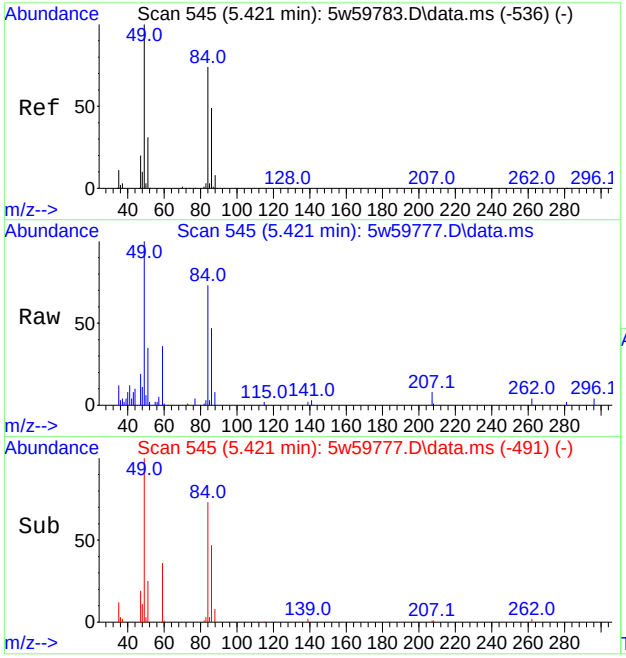


#30
ACRYLONITRILE
Concen: 0.37 PPBV
RT: 5.060 min Scan# 486
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 17143

Ion	Ratio	Lower	Upper
52	100		
53	123.5	85.8	159.4
51	43.9	32.3	60.1

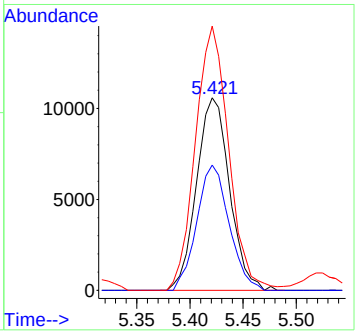


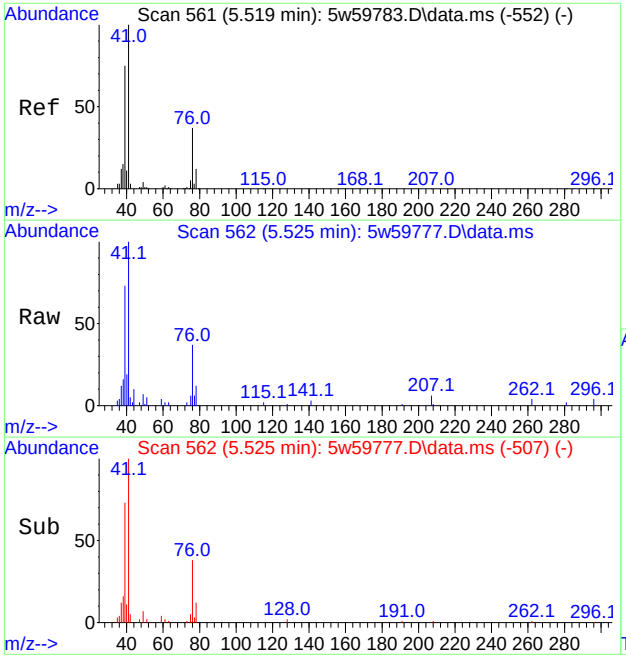


#31
METHYLENE CHLORIDE
Concen: 0.34 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 22923

Ion	Ratio	Lower	Upper
84	100		
86	63.7	35.2	95.2
49	138.4	105.3	165.3

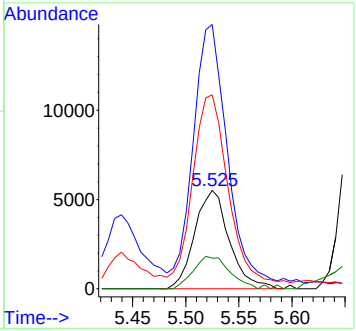


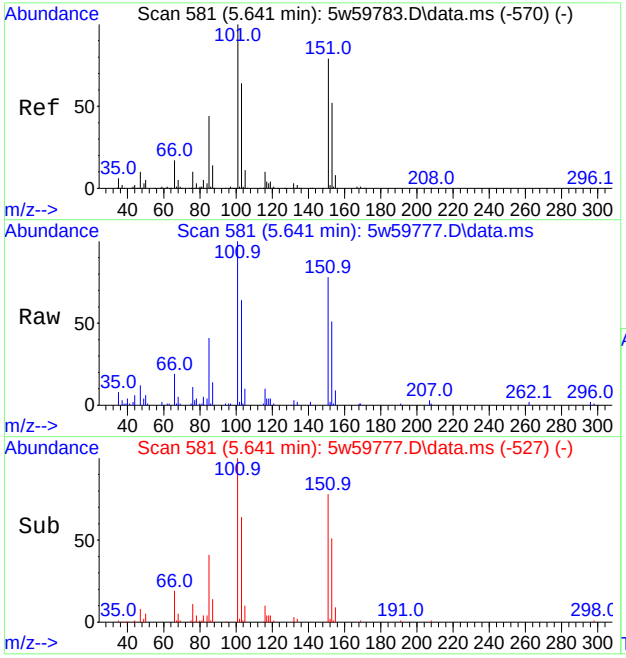


#32
3-CHLOROPROPENE
Concen: 0.36 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 12479

Ion	Ratio	Lower	Upper
76	100		
41	307.5	240.8	300.8#
39	198.9	173.6	233.6
78	34.4	2.8	62.8

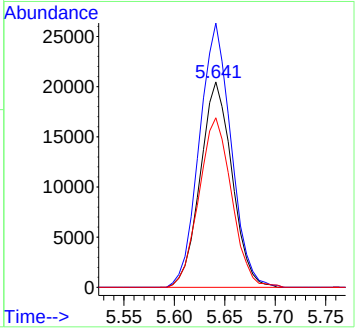


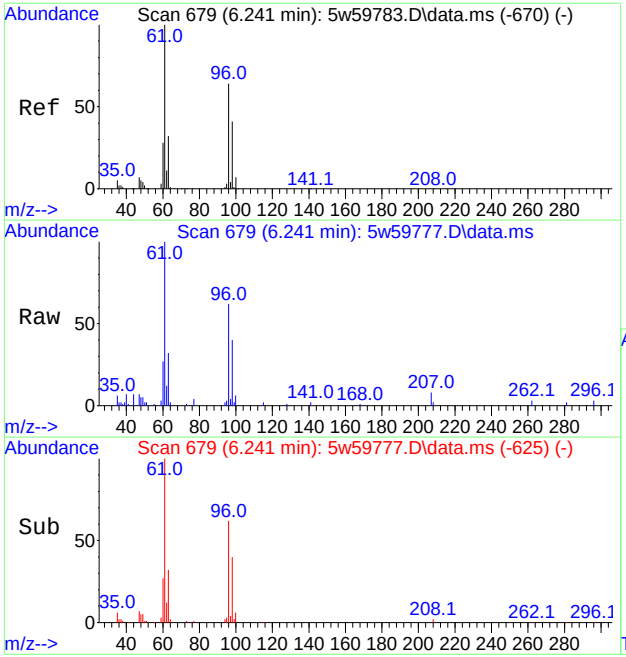


#33
FREON 113
Concen: 0.33 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:151 Resp: 45001

Ion	Ratio	Lower	Upper
151	100		
101	128.1	97.5	157.5
103	84.5	52.5	112.5

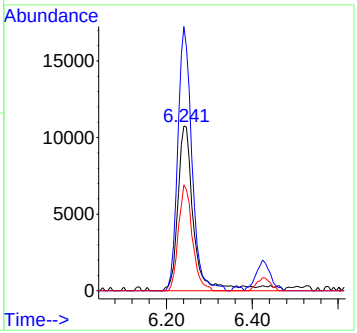


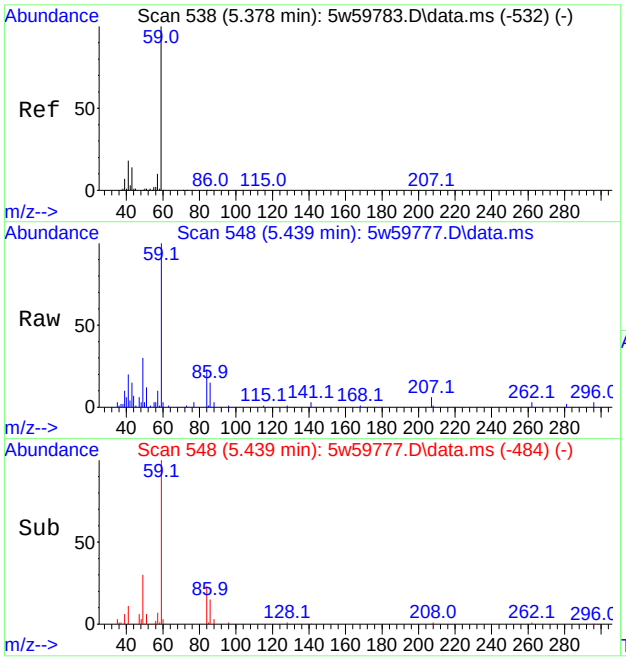


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 28115

Ion	Ratio	Lower	Upper
96	100		
61	139.5	126.4	186.4
98	55.2	34.1	94.1

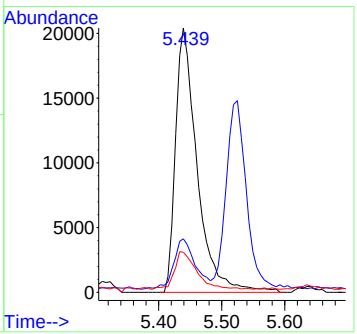


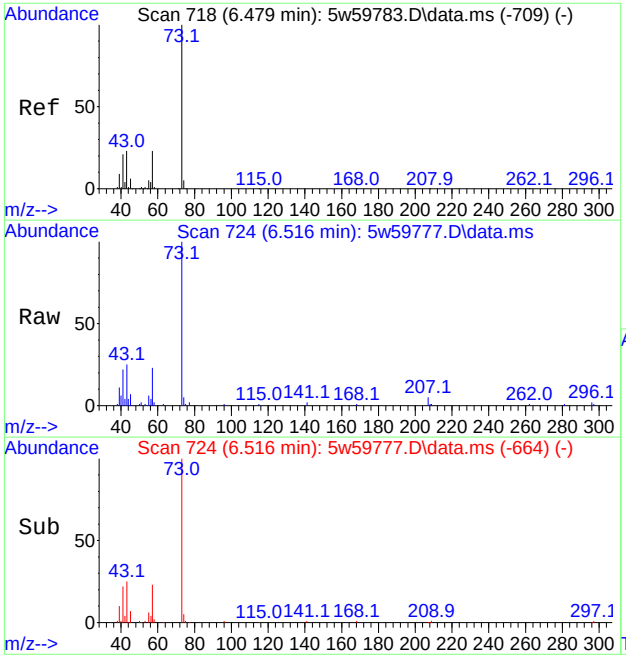


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.31 PPBV
RT: 5.439 min Scan# 548
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 48711

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	17.9	0.0	44.1

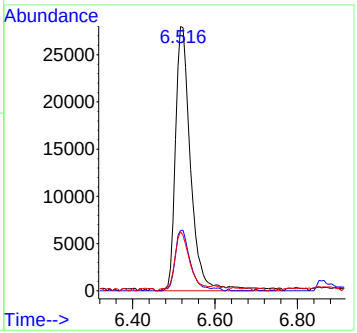


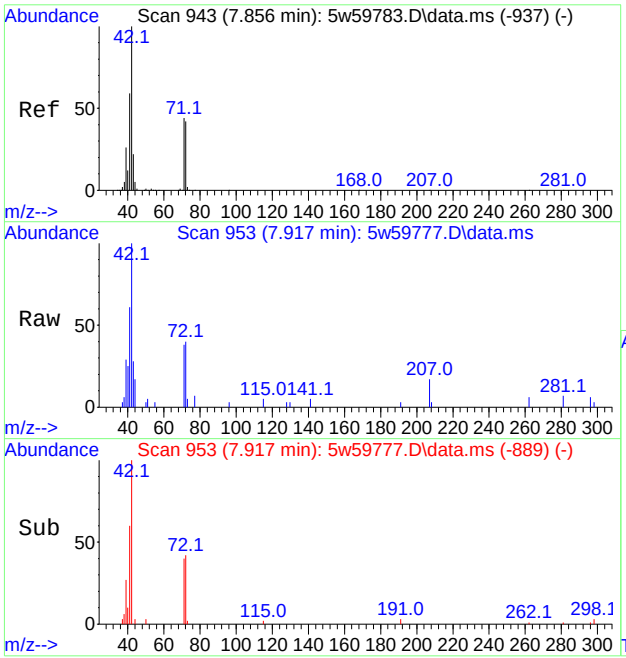


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.36 PPBV
RT: 6.516 min Scan# 724
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 73 Resp: 72222

Ion	Ratio	Lower	Upper
73	100		
57	22.9	0.0	53.1
41	25.0	0.0	50.6

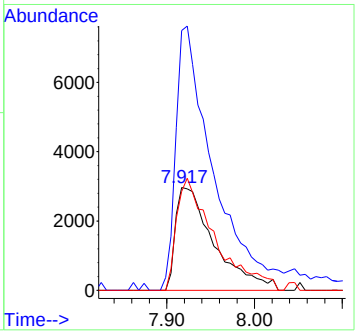


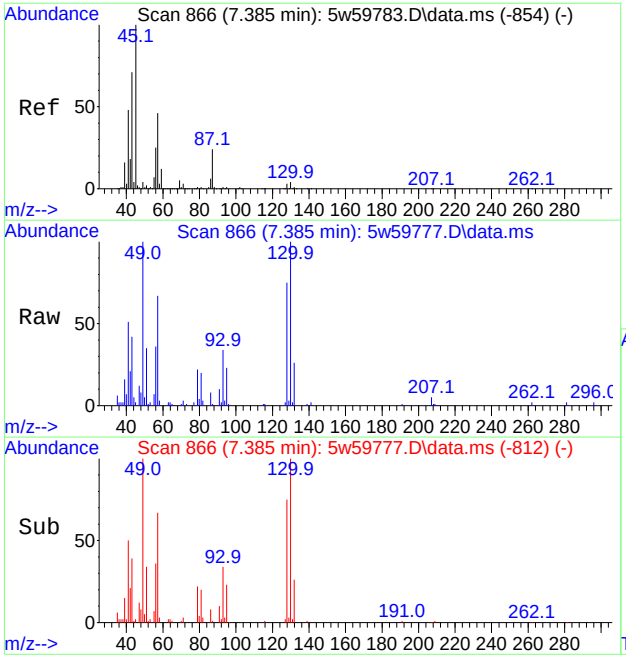


#37
TETRAHYDROFURAN
Concen: 0.29 PPBV
RT: 7.917 min Scan# 953
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9128

Ion	Ratio	Lower	Upper
72	100		
42	273.5	202.4	262.4#
71	107.4	71.1	131.1

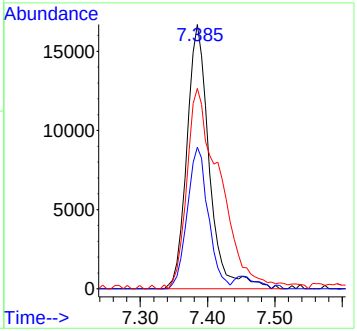


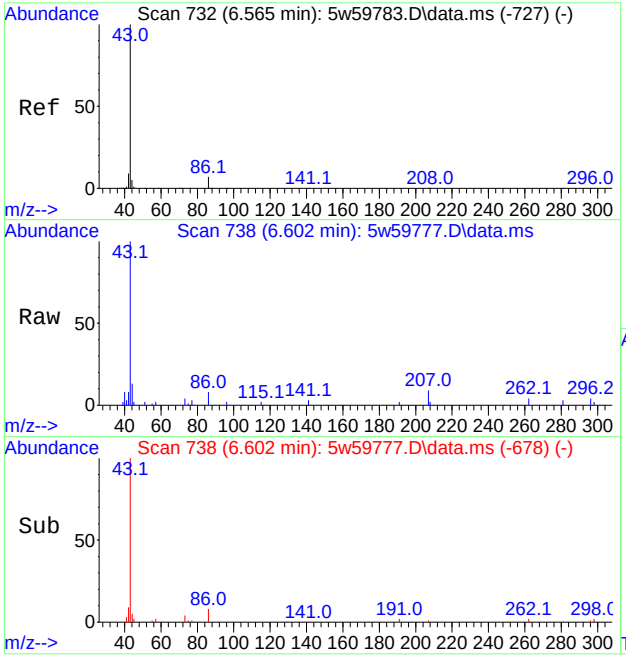


#38
HEXANE
Concen: 0.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 38643

Ion	Ratio	Lower	Upper
57	100		
56	50.3	25.9	85.9
41	113.5	74.7	134.7

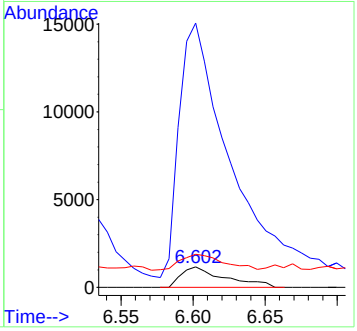


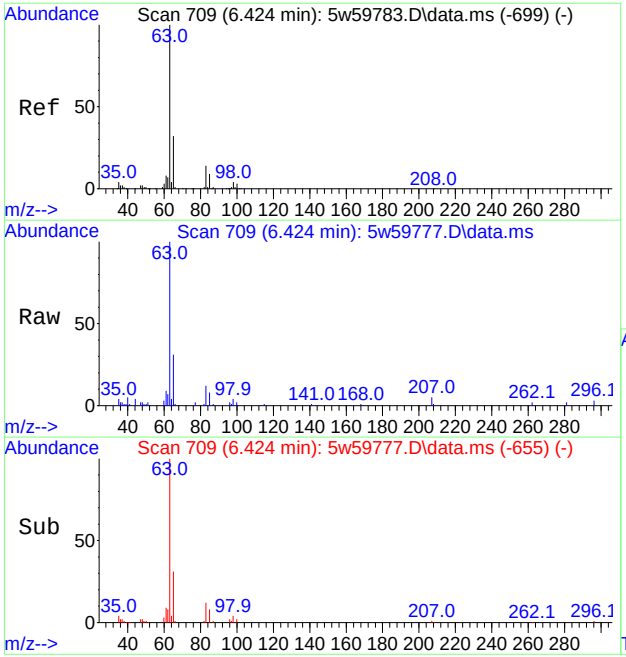


#39
VINYL ACETATE
Concen: 0.19 PPBV
RT: 6.602 min Scan# 738
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 86 Resp: 2461

Ion	Ratio	Lower	Upper
86	100		
43	1595.3	1379.7	1439.7#
44	82.6	36.9	96.9

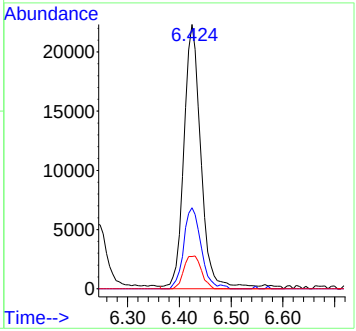


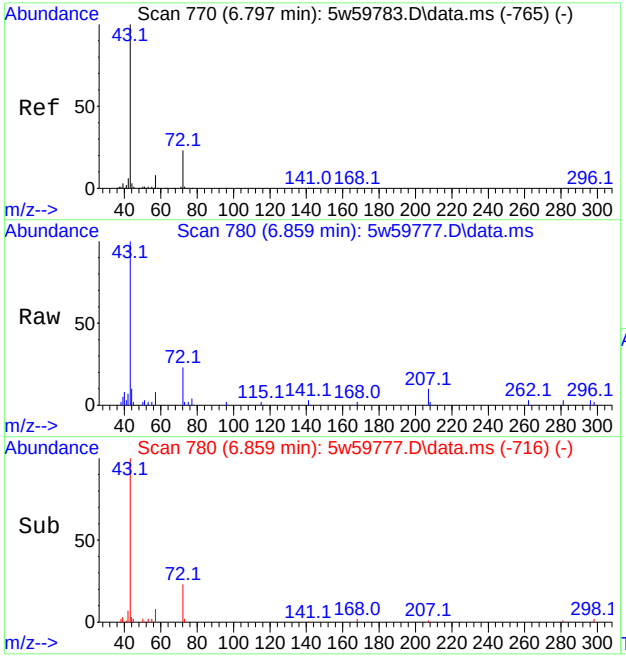


#40
1,1-DICHLOROETHANE
Concen: 0.36 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 51689

Ion	Ratio	Lower	Upper
63	100		
65	31.0	1.7	61.7
83	12.6	0.0	43.5

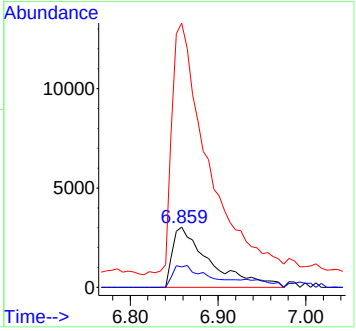


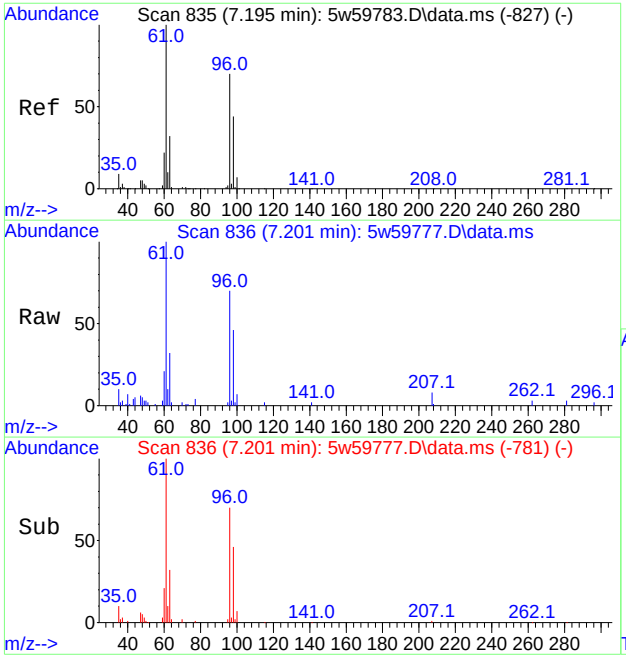


#41
METHYL ETHYL KETONE
Concen: 0.28 PPBV
RT: 6.859 min Scan# 780
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9022

Ion	Ratio	Lower	Upper
72	100		
57	34.2	4.8	64.8
43	439.2	415.9	475.9

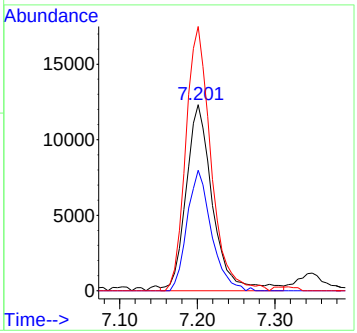


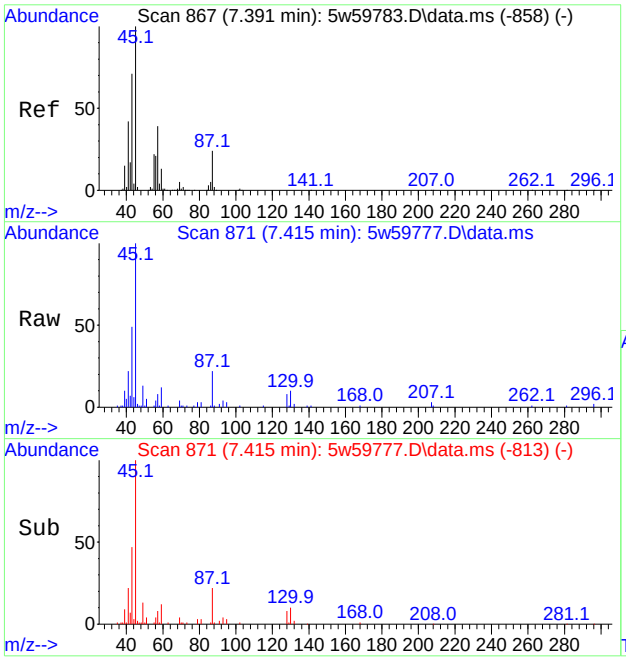


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 29380

Ion	Ratio	Lower	Upper
96	100		
98	59.0	34.0	94.0
61	133.9	111.5	171.5

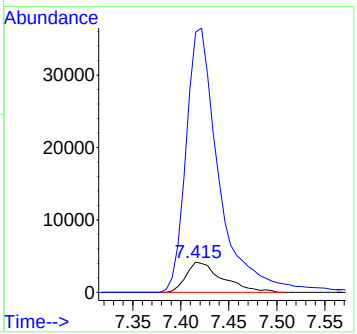


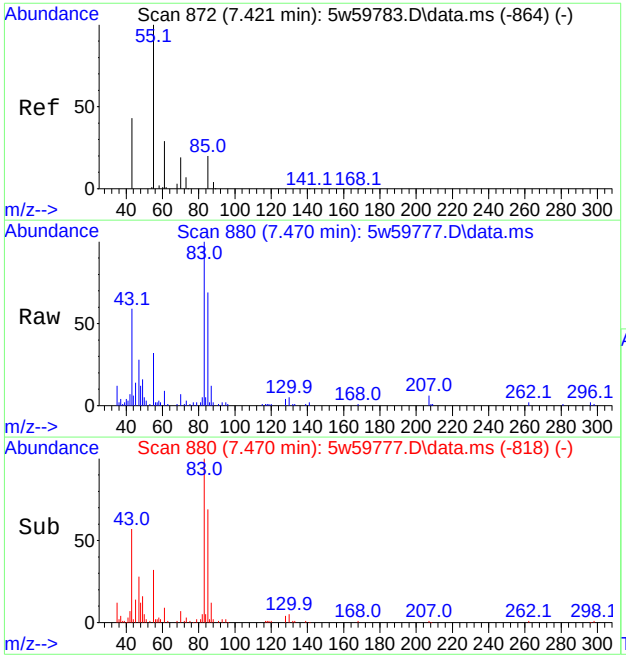


#43
DIISOPROPYL ETHER
Concen: 0.31 PPBV
RT: 7.415 min Scan# 871
Delta R.T. 0.024 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 10994

Ion	Ratio	Lower	Upper
59	100		
45	807.5	720.9	780.9#

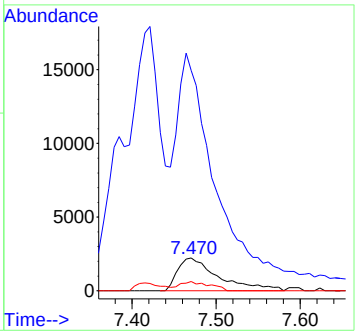


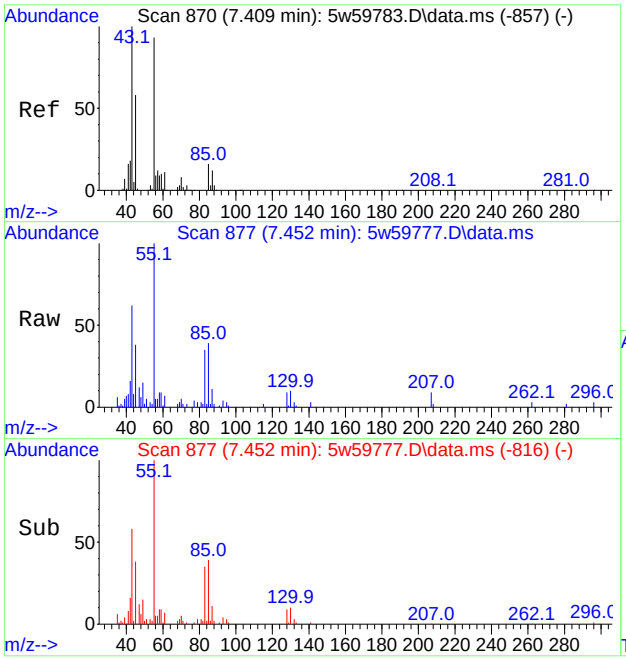


#44
ETHYL ACETATE
Concen: 0.29 PPBV
RT: 7.470 min Scan# 880
Delta R.T. 0.049 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 61 Resp: 7547

Ion	Ratio	Lower	Upper
61	100		
43	674.6	560.5	620.5#
88	20.6	4.5	64.5

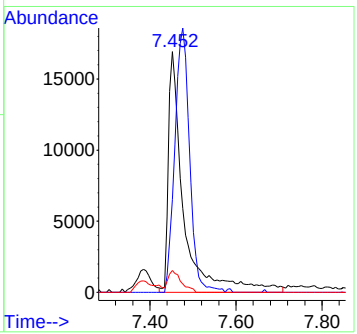


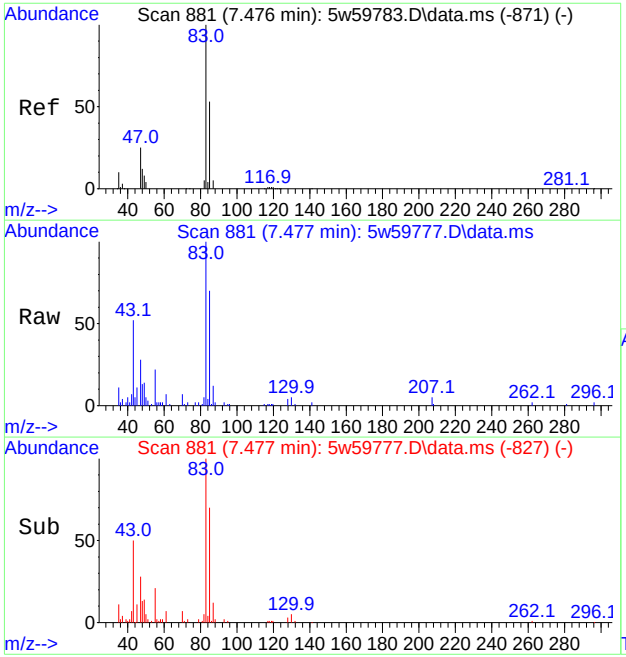


#45
METHYL ACRYLATE
Concen: 0.30 PPBV m
RT: 7.452 min Scan# 877
Delta R.T. 0.043 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 42153

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	6.0	9.4	17.6#

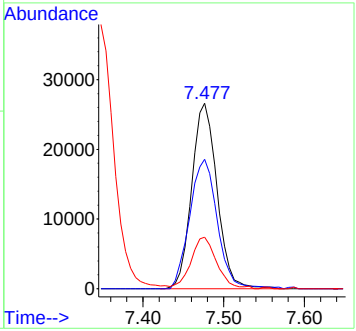


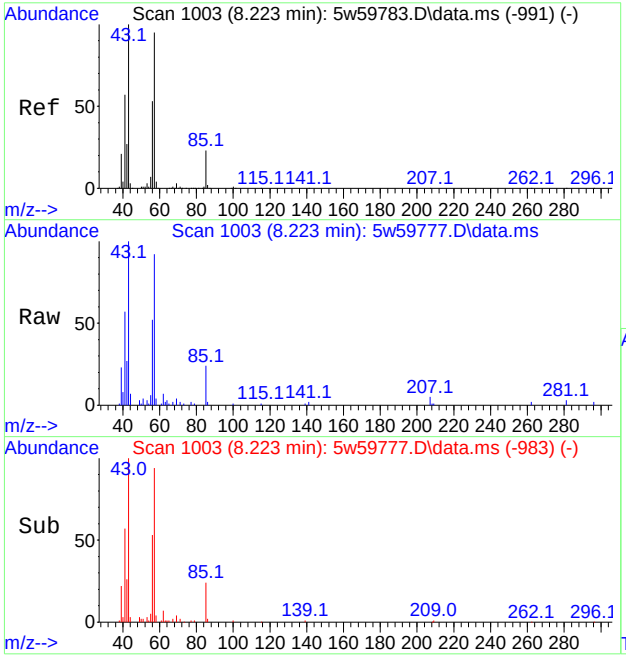


#46
CHLOROFORM
Concen: 0.34 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 58038

Ion	Ratio	Lower	Upper
83	100		
85	76.4	35.6	95.6
47	28.3	0.0	55.2

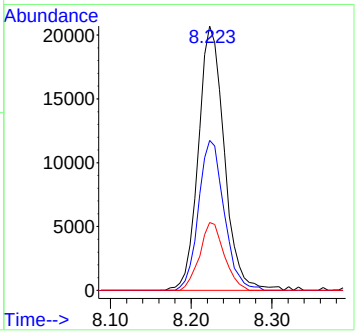


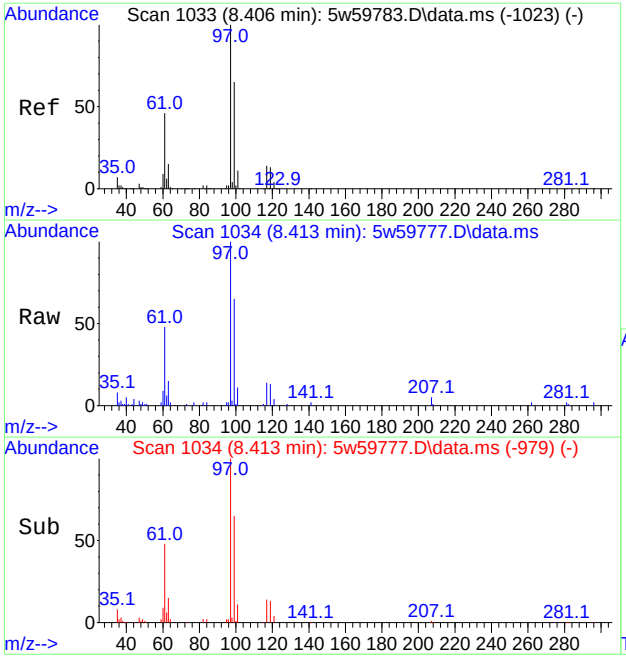


#47
2,4-DIMETHYLPENTANE
Concen: 0.34 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 46136

Ion	Ratio	Lower	Upper
57	100		
56	56.2	26.5	86.5
85	24.4	0.0	53.8

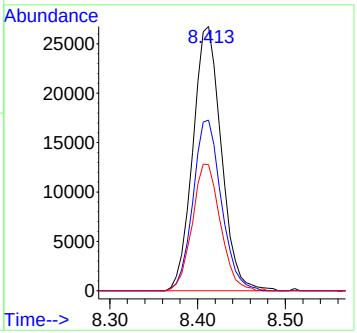


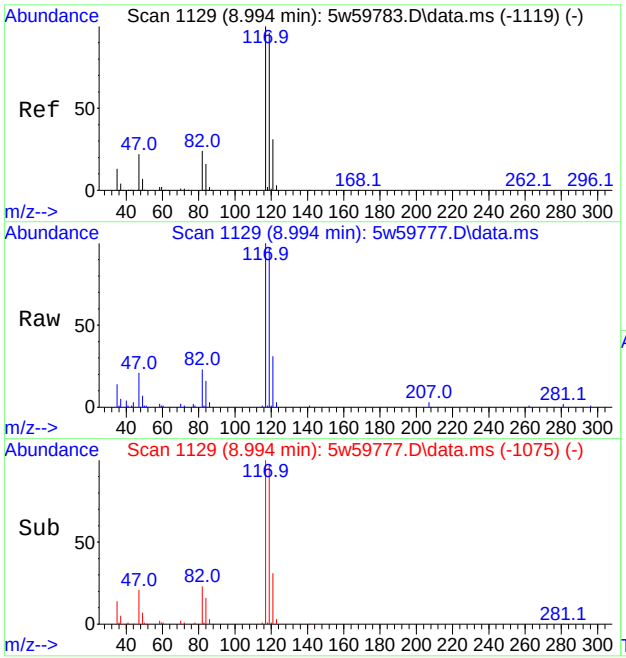


#48
1,1,1-TRICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 97 Resp: 60433

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.8	94.8
61	47.5	15.8	75.8

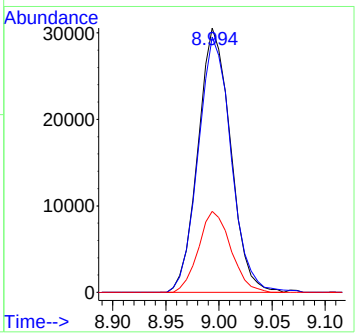


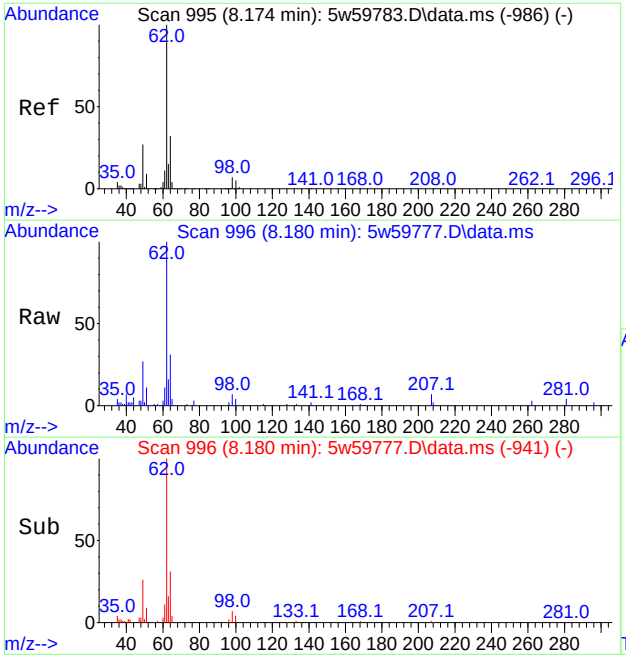


#49
CARBON TETRACHLORIDE
Concen: 0.33 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 65062

Ion	Ratio	Lower	Upper
117	100		
119	98.1	66.9	126.9
121	30.5	1.3	61.3

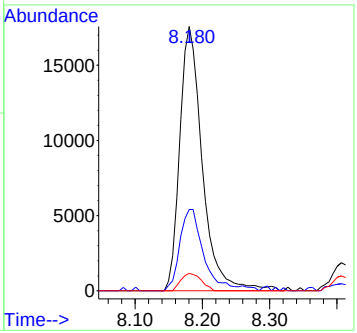


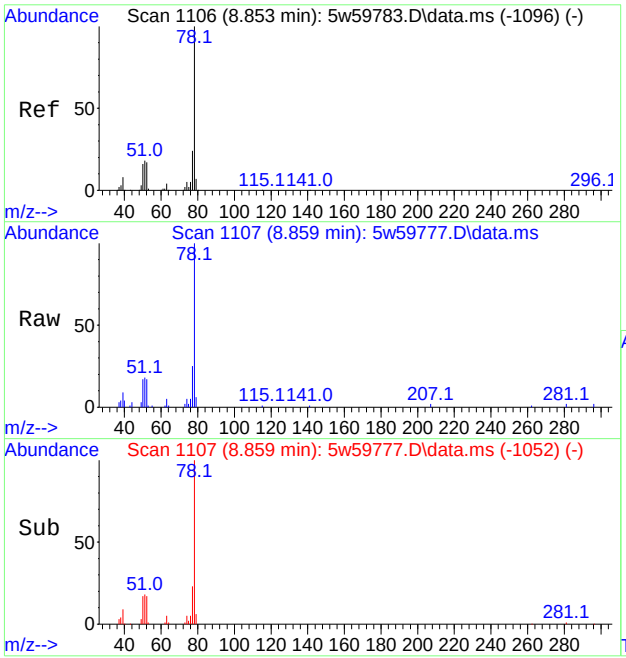


#50
1,2-DICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 41098

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	5.9	0.0	36.9

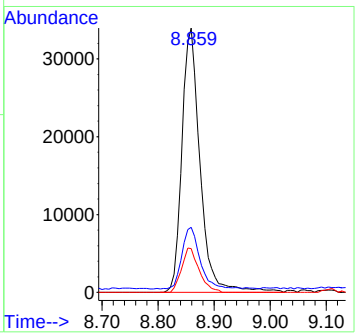


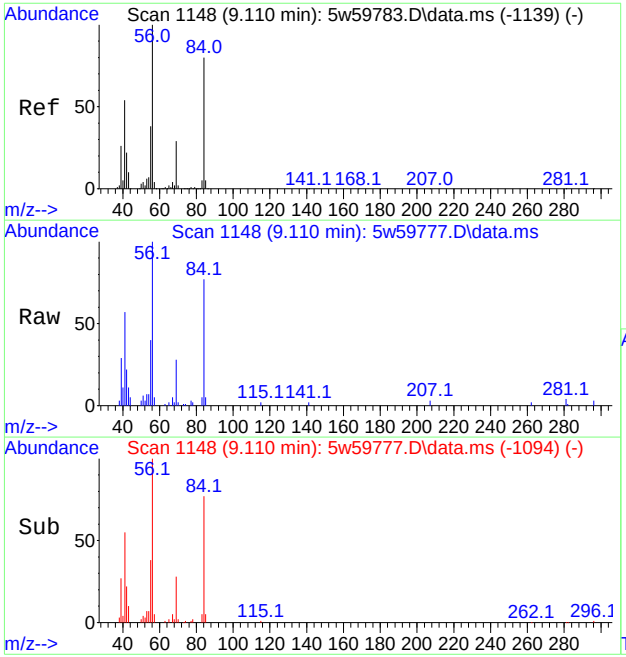


#52
BENZENE
Concen: 0.34 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 78 Resp: 76538

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	16.1	0.0	46.9

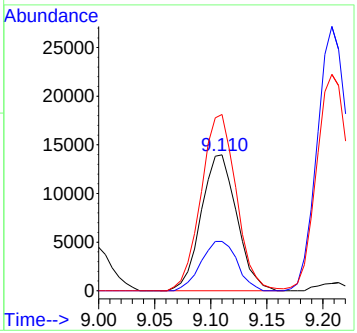


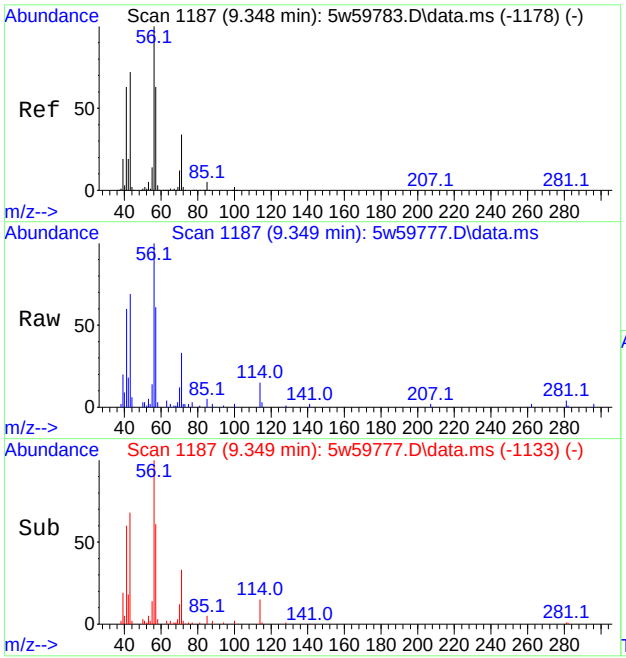


#53
CYCLOHEXANE
Concen: 0.34 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 30877

Ion	Ratio	Lower	Upper
84	100		
69	37.0	6.9	66.9
56	128.6	98.2	158.2

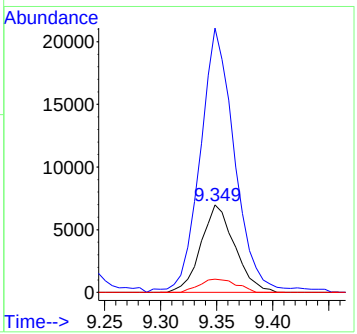


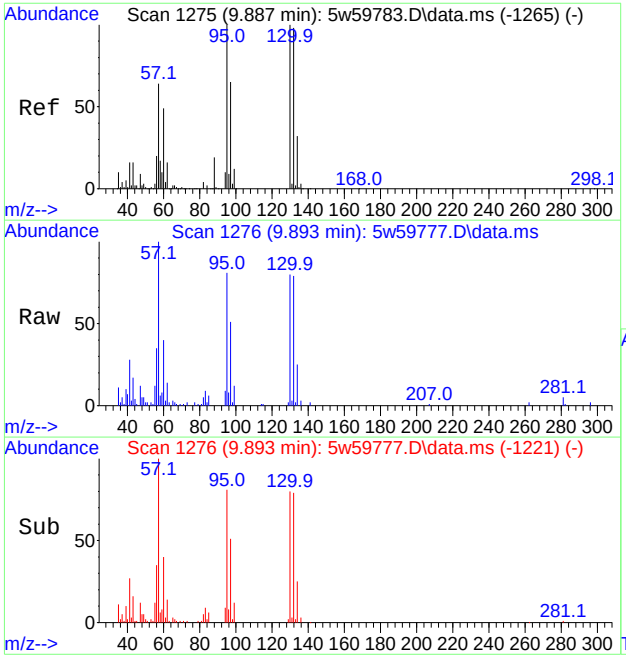


#54
2,3-DIMETHYLPENTANE
Concen: 0.32 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 71 Resp: 14658

Ion	Ratio	Lower	Upper
71	100		
56	309.7	264.6	324.6
85	16.6	0.0	45.3

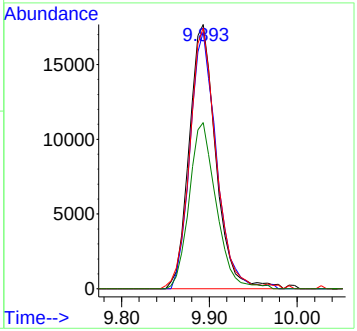


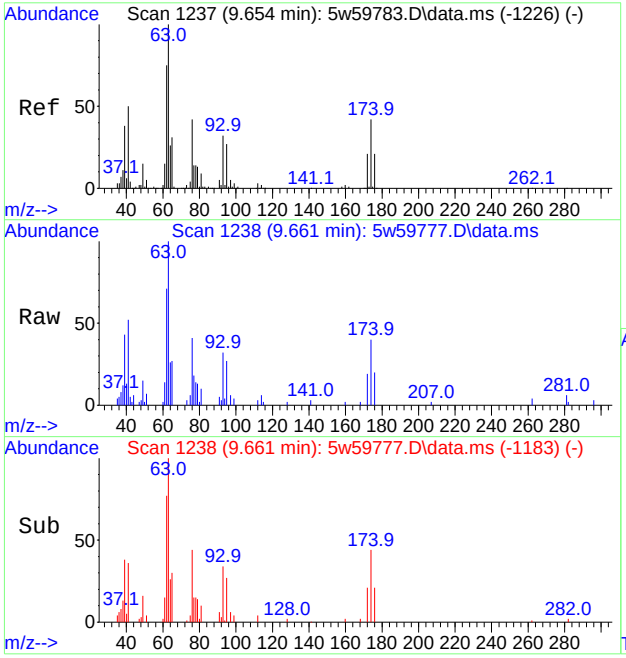


#55
TRICHLOROETHYLENE
Concen: 0.32 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 95 Resp: 37369

Ion	Ratio	Lower	Upper
95	100		
132	96.2	69.0	129.0
130	98.7	70.6	130.6
97	63.6	34.6	94.6

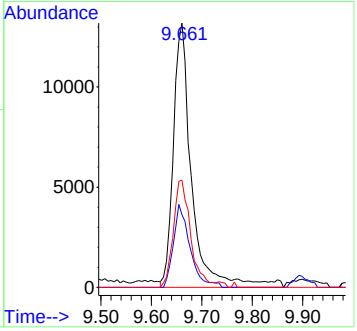


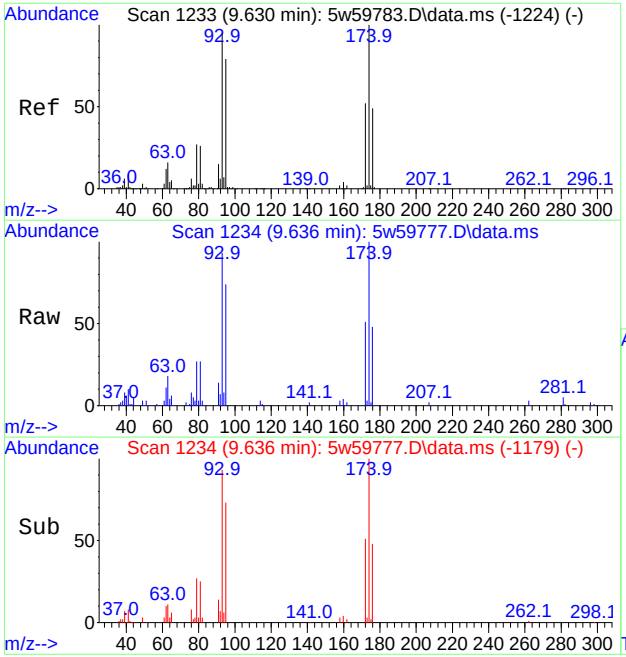


#56
1,2-DICHLOROPROPANE
Concen: 0.35 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 33377

Ion	Ratio	Lower	Upper
63	100		
65	28.2	0.5	60.5
76	39.1	11.5	71.5

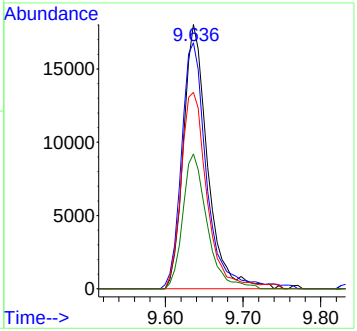


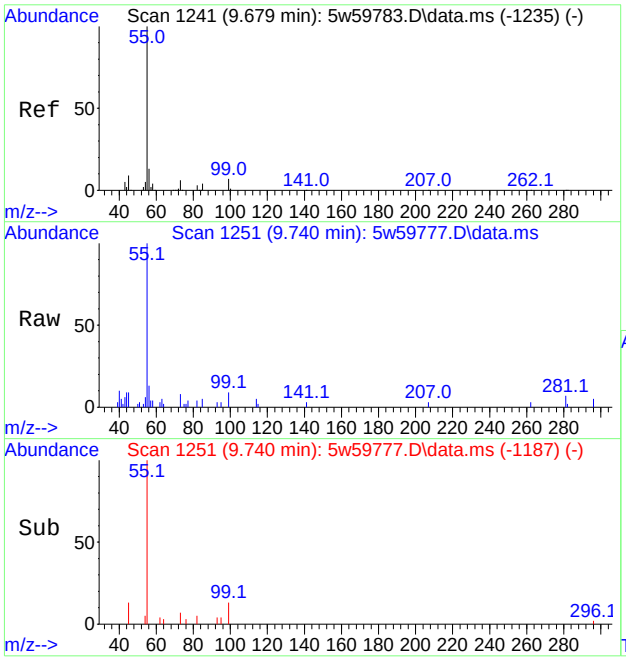


#57
DIBROMOMETHANE
Concen: 0.31 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:174 Resp: 39103

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	80.0	54.5	101.1
172	51.2	36.3	67.5

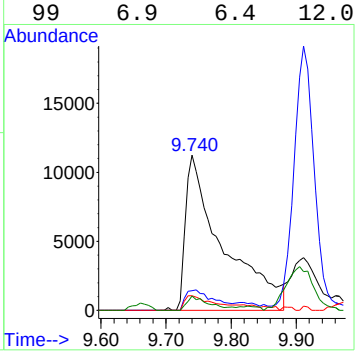


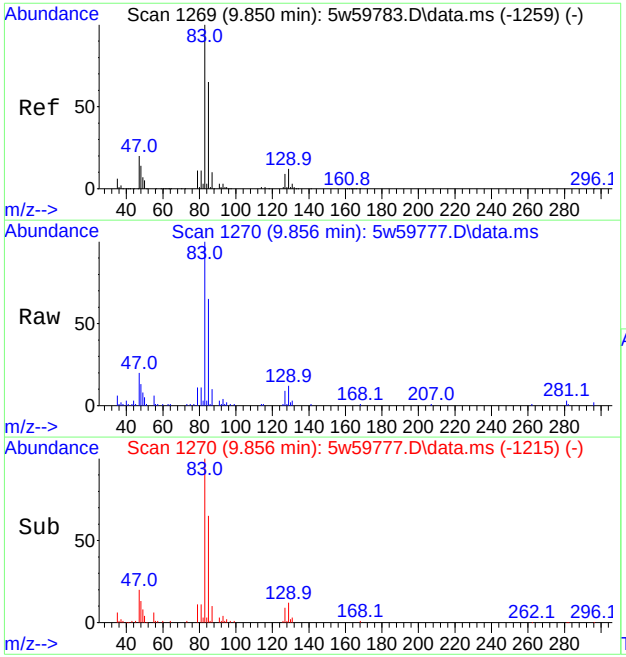


#58
ETHYL ACRYLATE
Concen: 0.25 PPBV
RT: 9.740 min Scan# 1251
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 44771

Ion	Ratio	Lower	Upper
55	100		
56	13.8	8.6	16.0
45	9.9	6.6	12.2
99	6.9	6.4	12.0

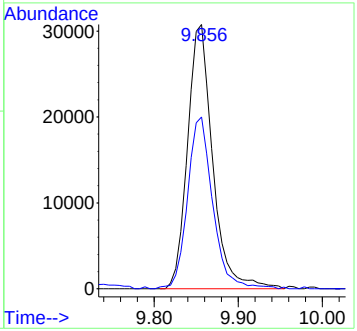


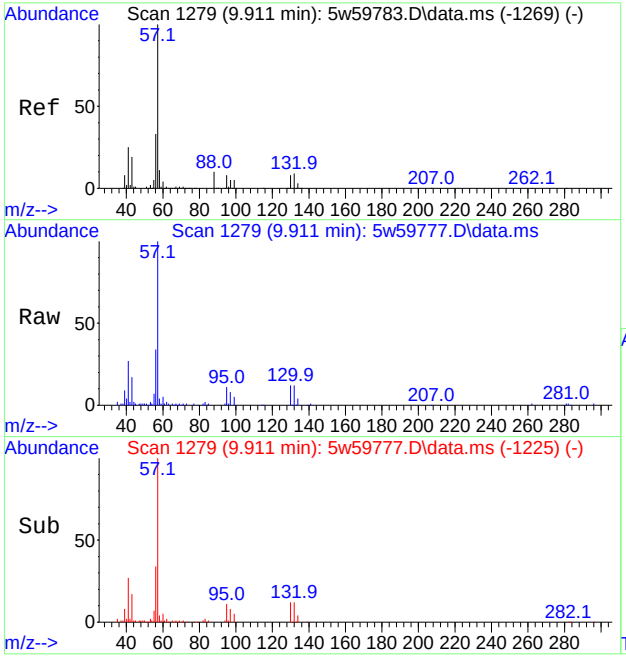


#59
BROMODICHLOROMETHANE
Concen: 0.31 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 64038

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

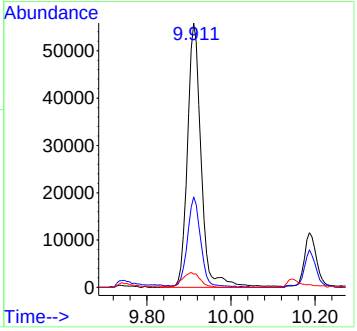


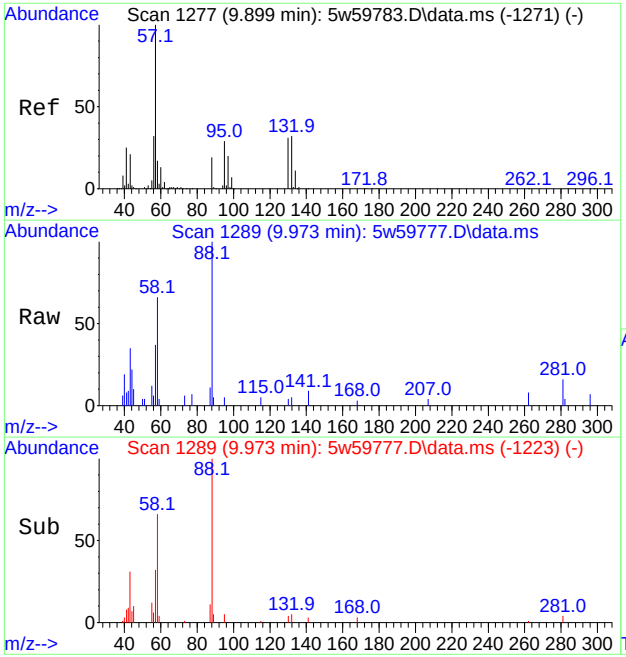


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.35 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 127085

Ion	Ratio	Lower	Upper
57	100		
56	33.3	2.5	62.5
99	7.3	0.0	37.3

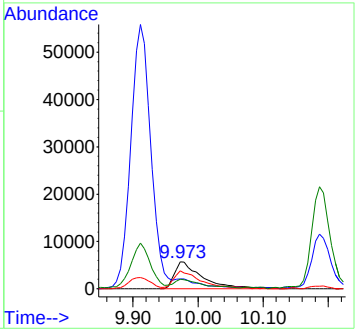


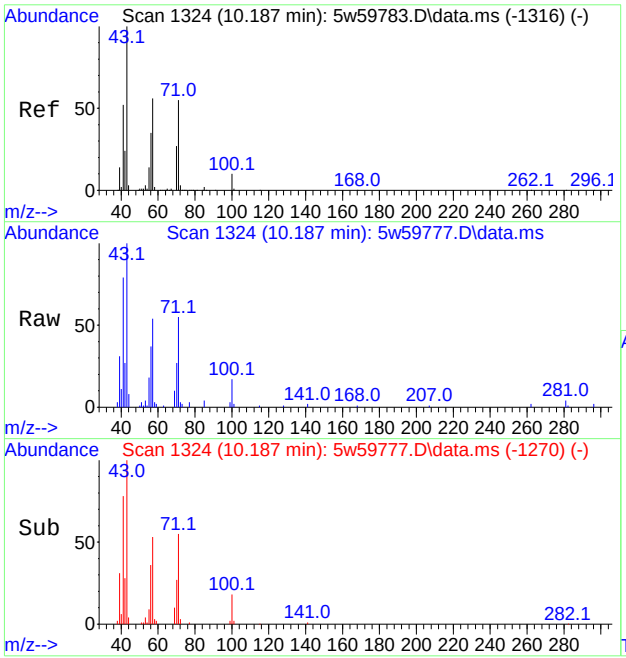


#61
1,4-DIOXANE
Concen: 0.32 PPBV
RT: 9.973 min Scan# 1289
Delta R.T. 0.074 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 88 Resp: 17043

Ion	Ratio	Lower	Upper
88	100		
57	36.5	494.2	554.2#
58	66.1	58.9	118.9
43	35.3	78.3	138.3#

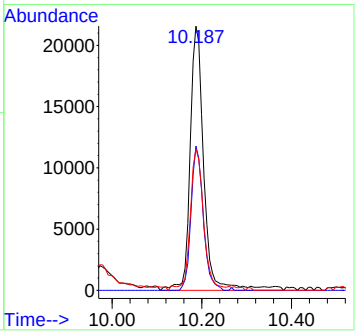


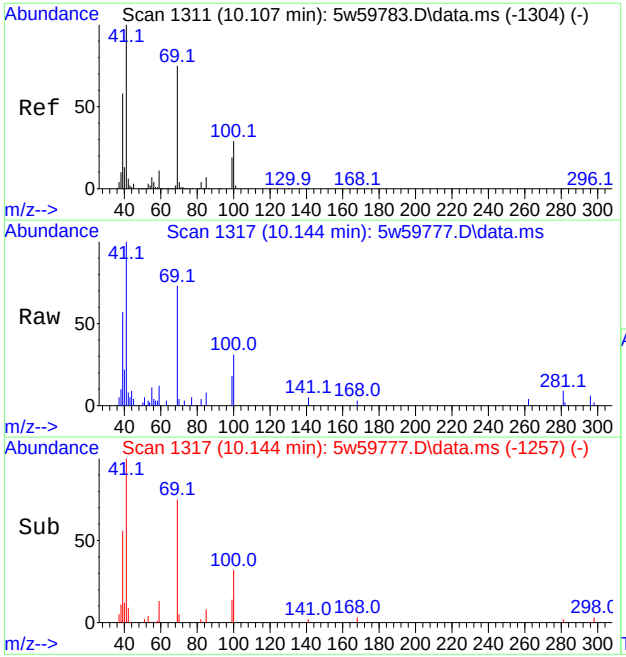


#62
HEPTANE
Concen: 0.38 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 45917

Ion	Ratio	Lower	Upper
43	100		
71	48.0	24.5	84.5
57	53.4	26.2	86.2

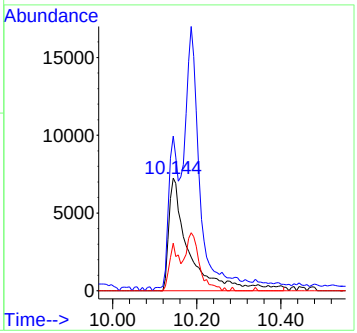


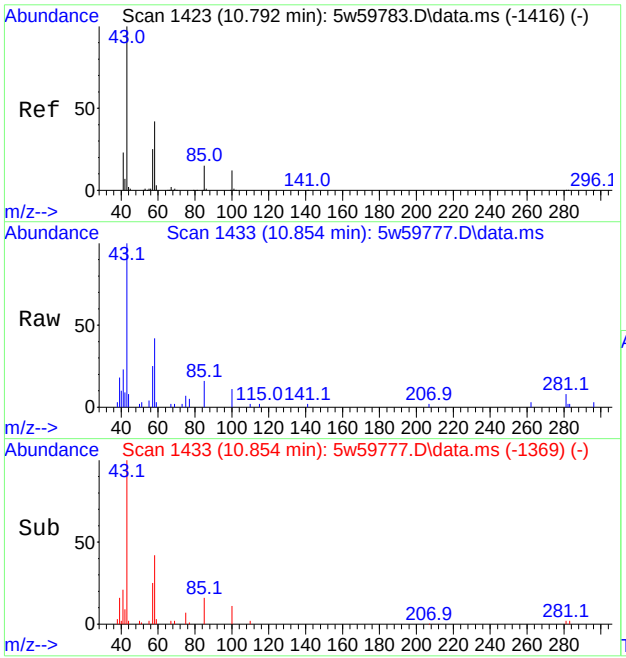


#63
METHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 10.144 min Scan# 1317
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 24229

Ion	Ratio	Lower	Upper
69	100		
41	73.7	95.3	155.3#
100	22.5	6.3	66.3

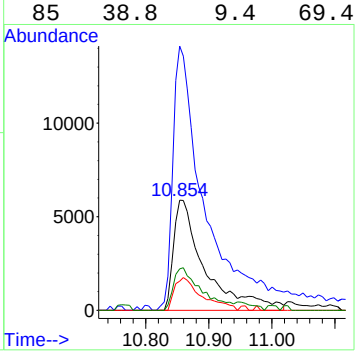


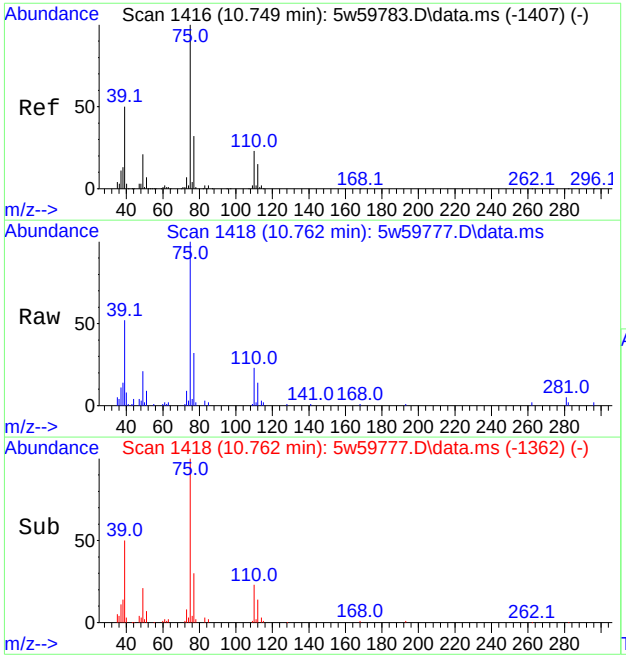


#64
METHYL ISOBUTYL KETONE
Concen: 0.27 PPBV
RT: 10.854 min Scan# 1433
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 20298

Ion	Ratio	Lower	Upper
58	100		
43	262.8	209.2	269.2
100	26.0	0.0	58.8
85	38.8	9.4	69.4

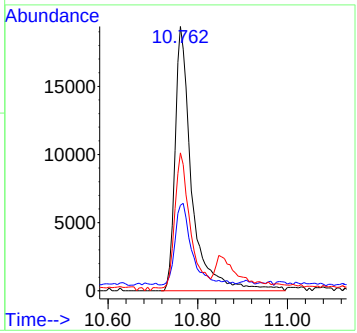


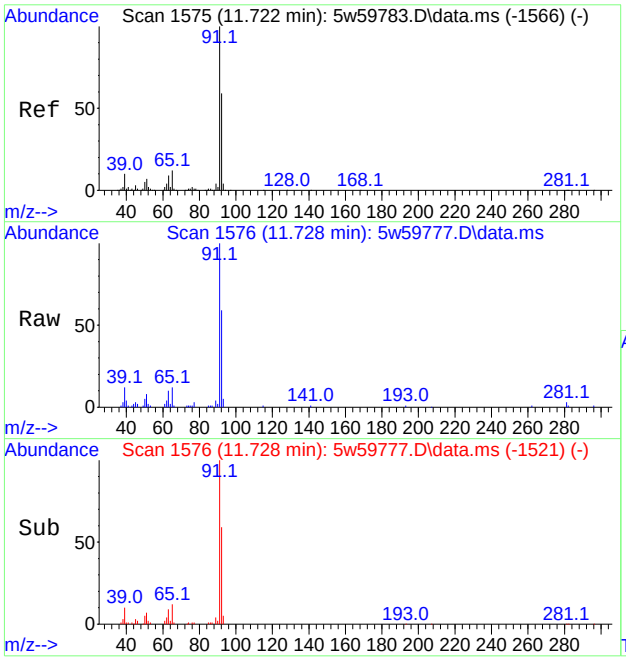


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.32 PPBV
RT: 10.762 min Scan# 1418
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 50330

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	47.9	34.3	94.3

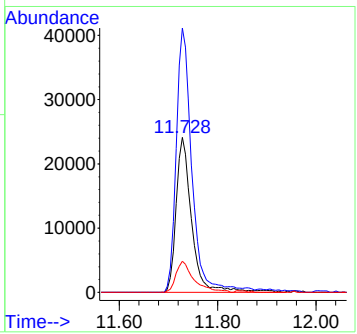


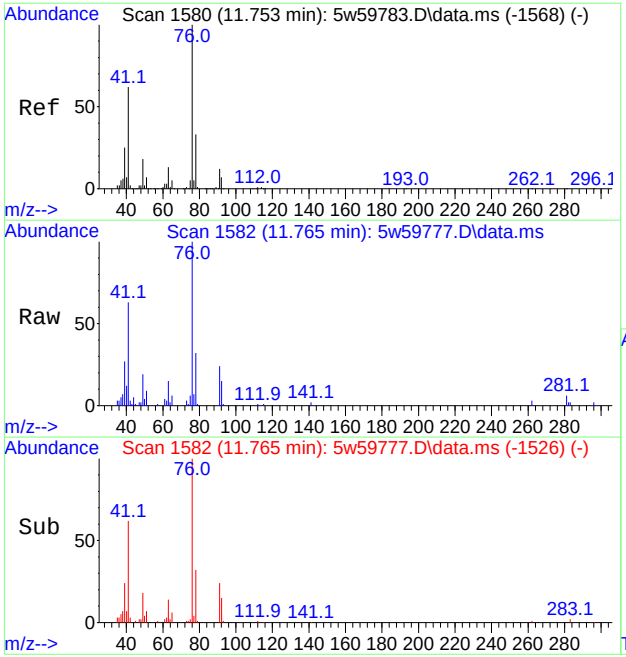


#66
TOLUENE
Concen: 0.31 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 92 Resp: 53175

Ion	Ratio	Lower	Upper
92	100		
91	174.5	140.1	200.1
65	23.0	0.0	53.1

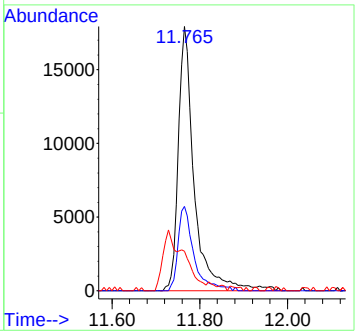


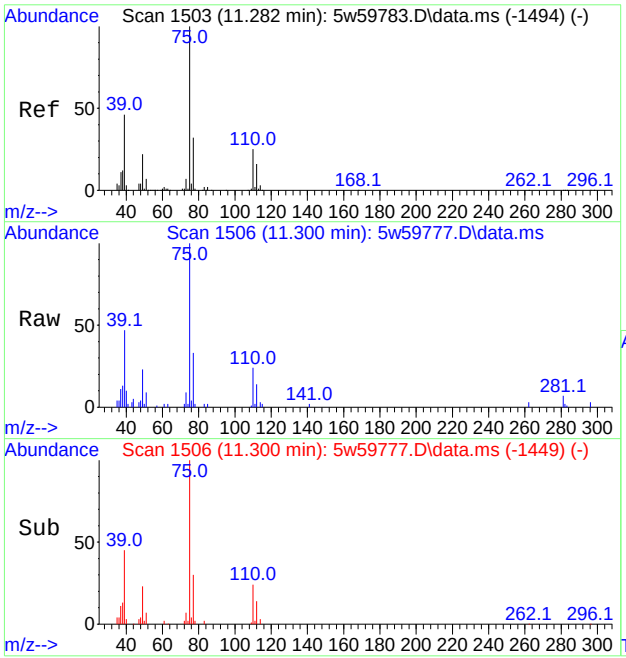


#67
1,3-DICHLOROPROPANE
Concen: 0.32 PPBV
RT: 11.765 min Scan# 1582
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 45275

Ion	Ratio	Lower	Upper
76	100		
78	31.9	23.2	43.0
63	0.0	7.1	13.1#

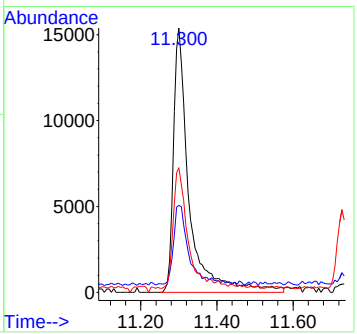


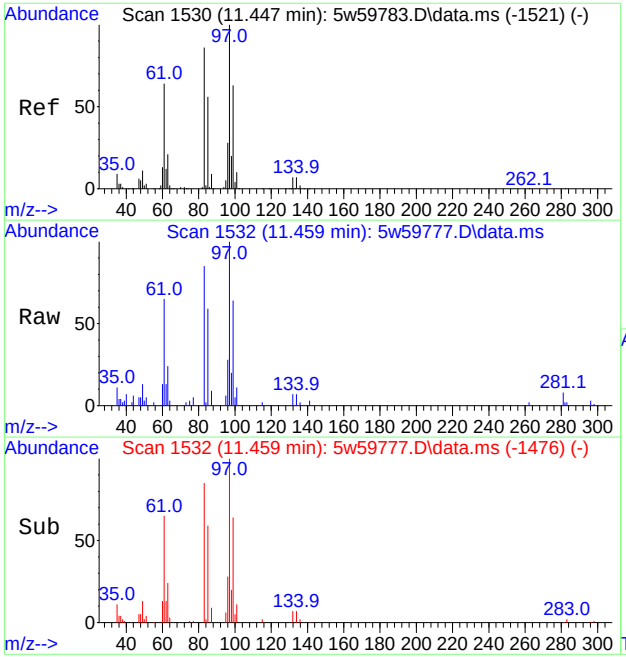


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.30 PPBV
RT: 11.300 min Scan# 1506
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 44098

Ion	Ratio	Lower	Upper
75	100		
77	28.5	1.6	61.6
39	49.3	16.1	76.1

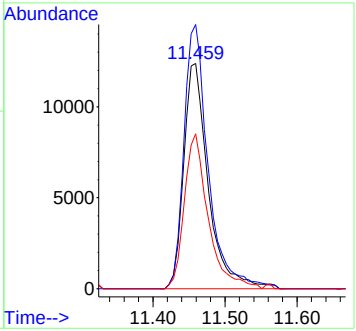


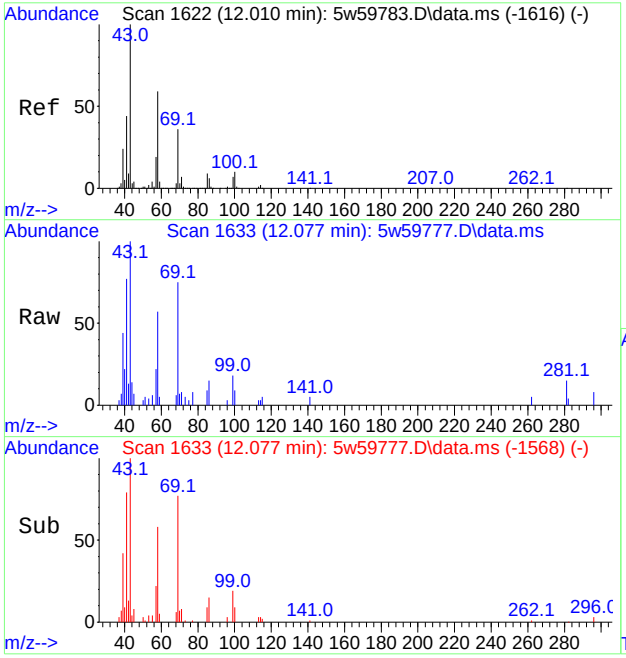


#69
1,1,2-TRICHLOROETHANE
Concen: 0.31 PPBV
RT: 11.459 min Scan# 1532
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 29376

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	66.8	35.3	95.3

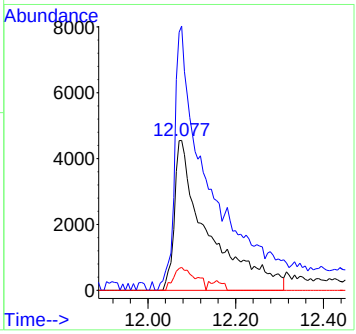


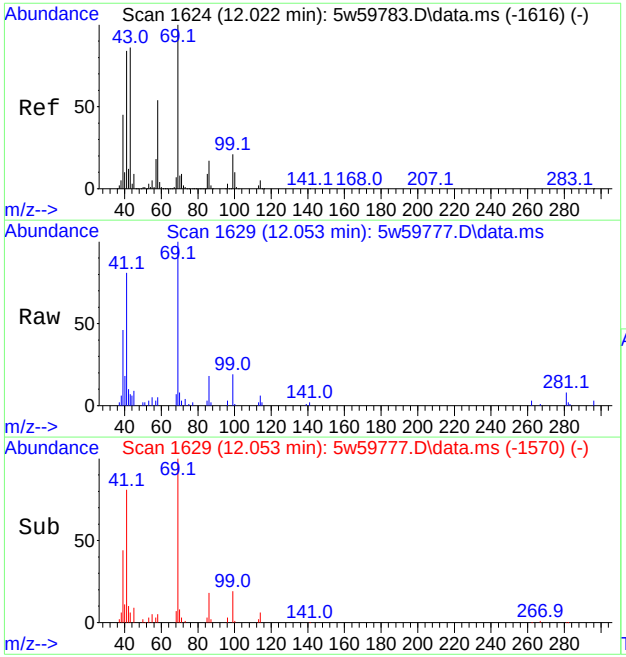


#71
2-HEXANONE
Concen: 0.25 PPBV
RT: 12.077 min Scan# 1633
Delta R.T. 0.067 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 24053

Ion	Ratio	Lower	Upper
58	100		
43	181.6	137.2	197.2
100	9.8	0.0	46.9

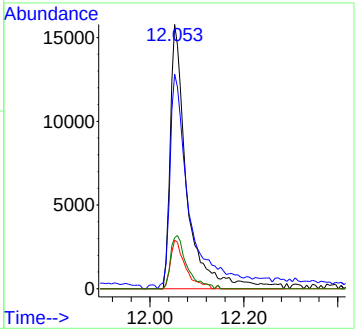


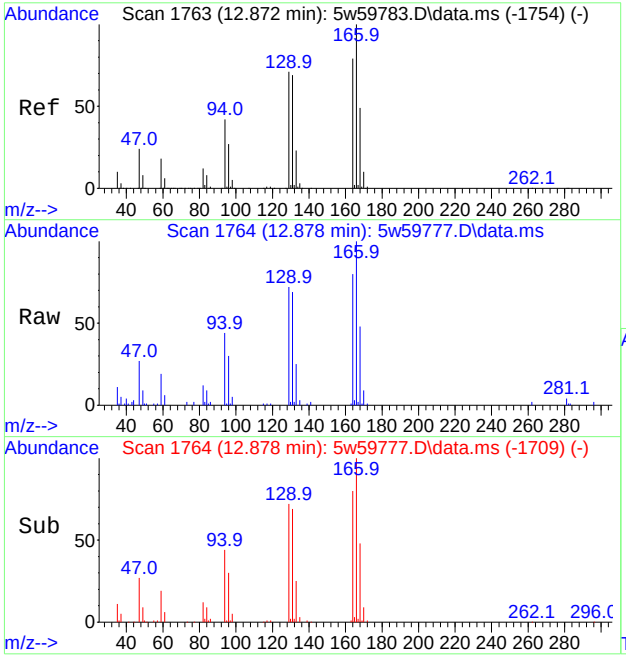


#72
ETHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 12.053 min Scan# 1629
Delta R.T. 0.031 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 39133

Ion	Ratio	Lower	Upper
69	100		
41	104.7	64.0	119.0
86	16.5	12.0	22.4
99	19.9	15.0	27.8

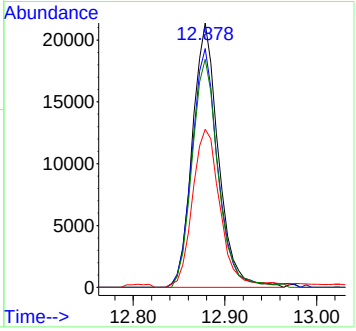


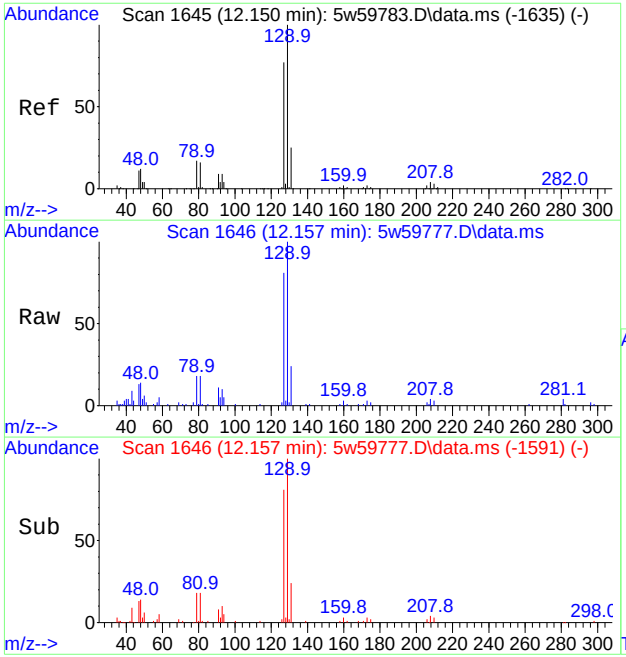


#73
TETRACHLOROETHYLENE
Concen: 0.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:164 Resp: 42039

Ion	Ratio	Lower	Upper
164	100		
129	92.1	59.7	119.7
168	67.5	32.2	92.2
131	87.3	57.8	117.8

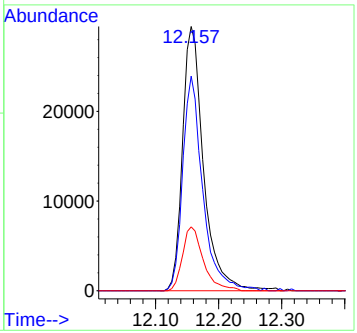


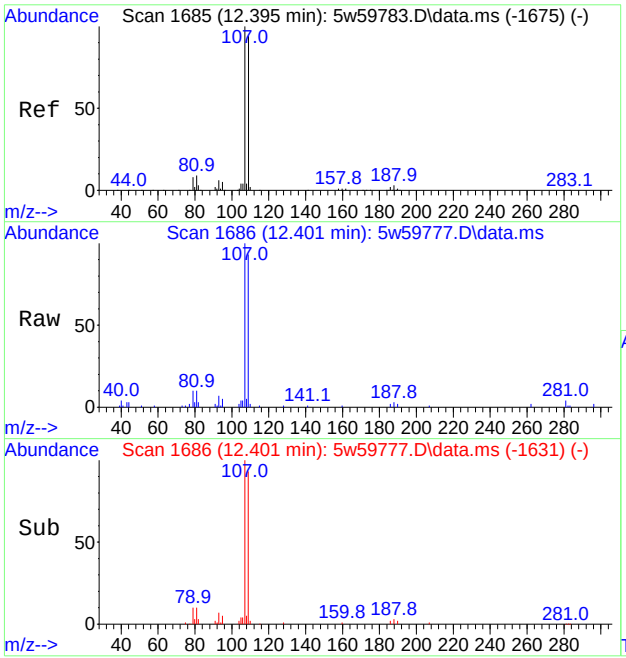


#74
DIBROMOCHLOROMETHANE
Concen: 0.33 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:129 Resp: 68347

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.0	0.0	54.5

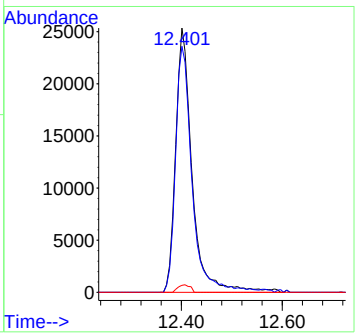


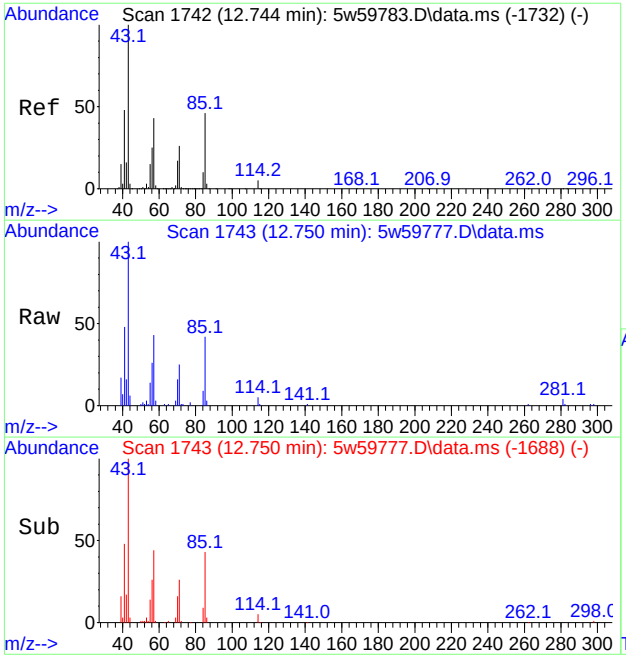


#75
1,2-DIBROMOETHANE
Concen: 0.36 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:107 Resp: 57560

Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.8	124.8
188	2.2	0.0	32.8

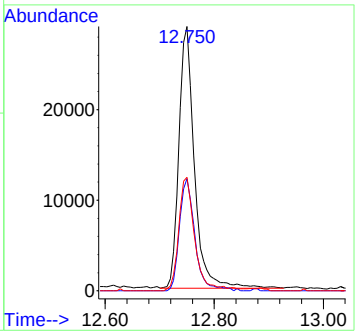


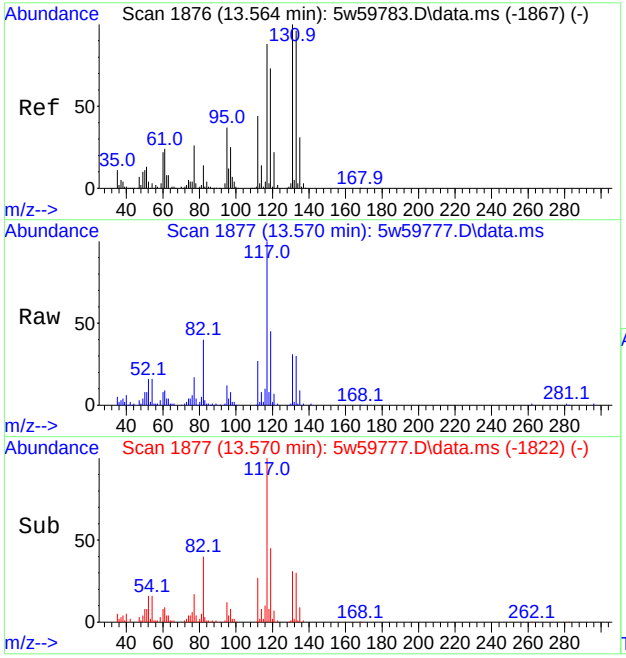


#76
OCTANE
Concen: 0.37 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 57196

Ion	Ratio	Lower	Upper
43	100		
85	42.4	14.6	74.6
57	45.8	13.7	73.7

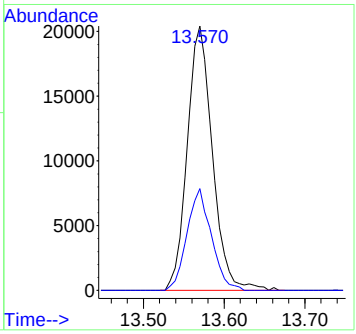


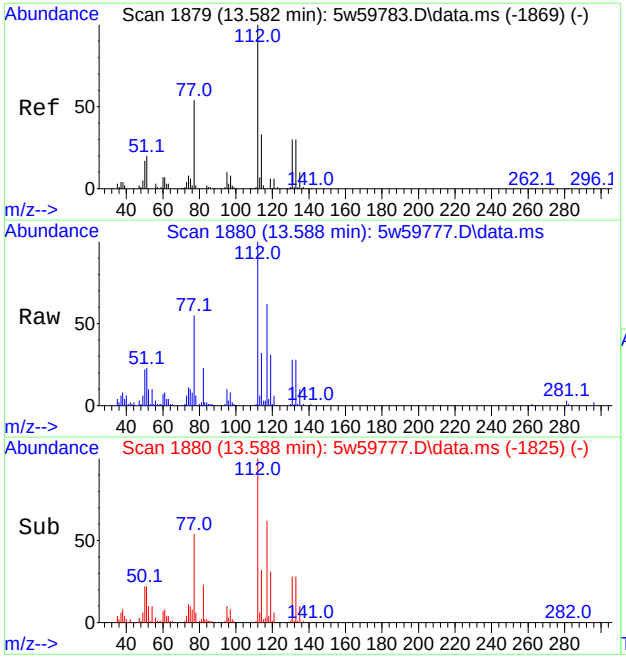


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.34 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:131 Resp: 44229

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

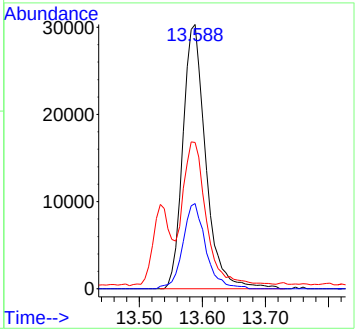


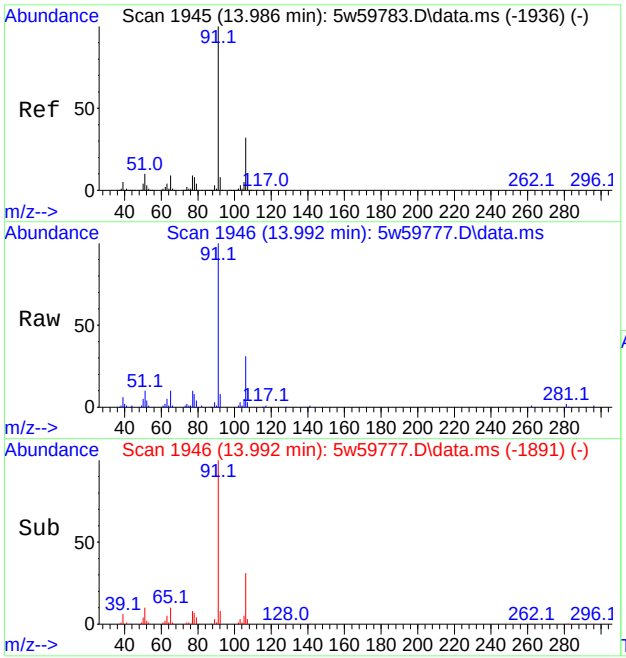


#78
CHLOROBENZENE
Concen: 0.36 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:112 Resp: 76482

Ion	Ratio	Lower	Upper
112	100		
114	32.3	2.6	62.6
77	54.6	25.4	85.4

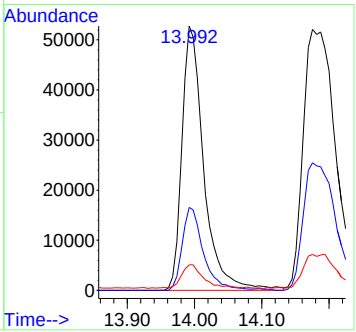


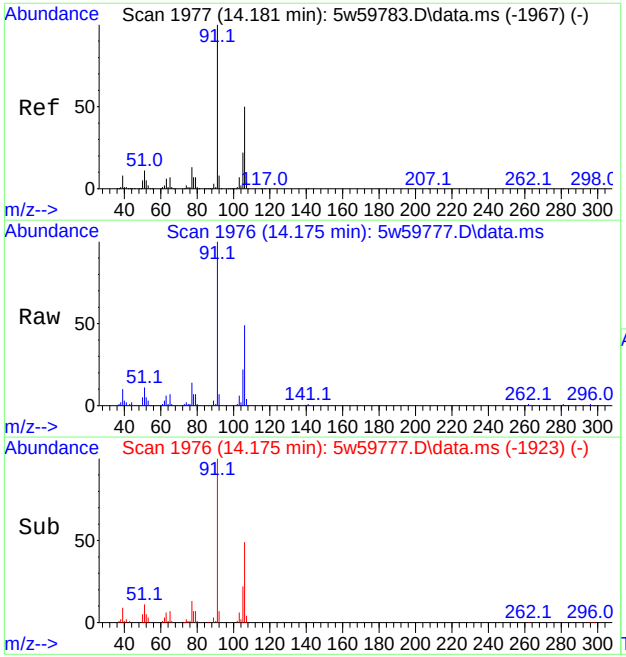


#79
ETHYLBENZENE
Concen: 0.37 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 119442

Ion	Ratio	Lower	Upper
91	100		
106	30.6	1.3	61.3
77	9.8	0.0	38.6

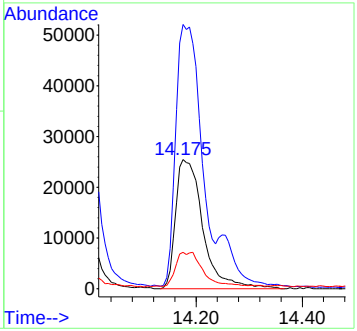


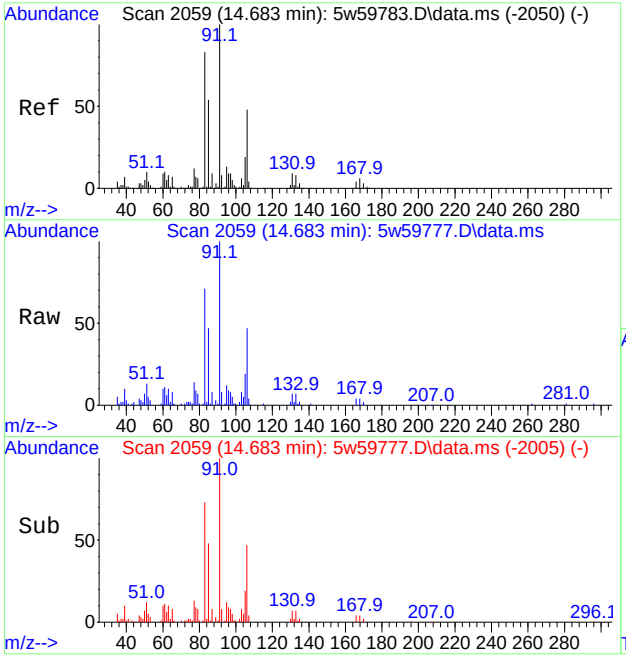


#80
m,p-XYLENE
Concen: 0.70 PPBV
RT: 14.175 min Scan# 1976
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 91065

Ion	Ratio	Lower	Upper
106	100		
91	204.5	171.0	231.0
77	28.2	0.0	56.7

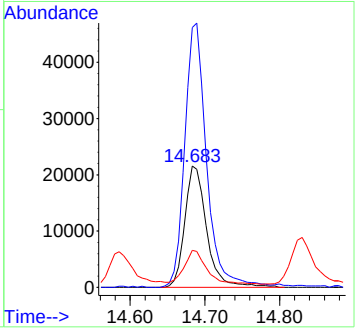


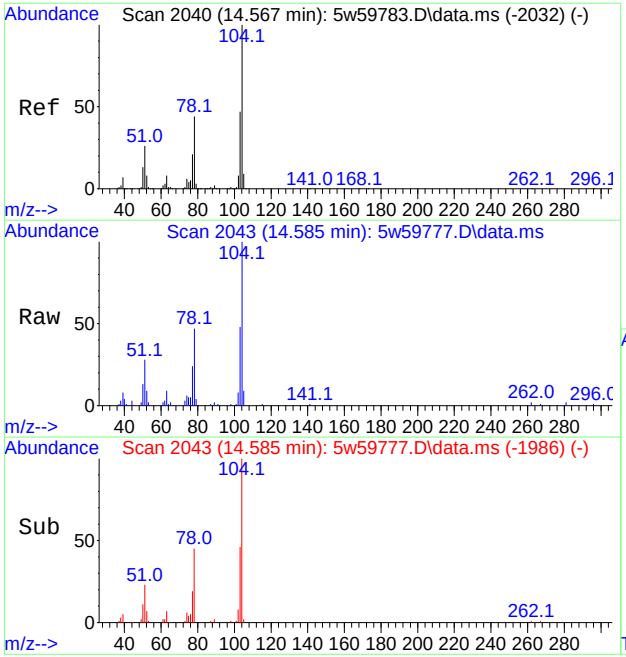


#81
o-XYLENE
Concen: 0.35 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 43793

Ion	Ratio	Lower	Upper
106	100		
91	220.8	181.6	241.6
77	30.0	0.0	56.6

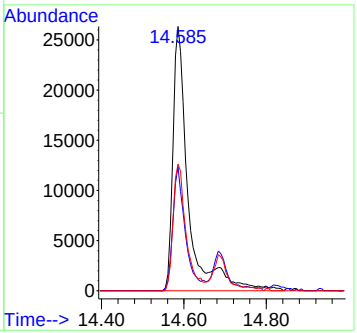


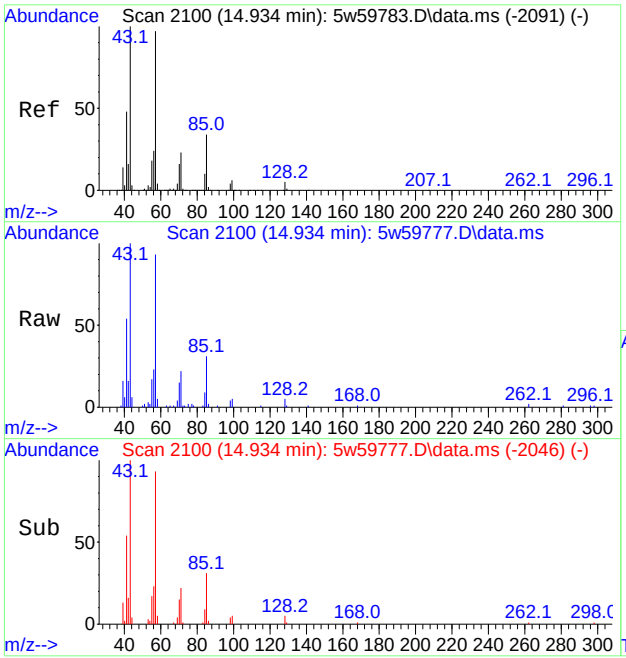


#82
STYRENE
Concen: 0.36 PPBV
RT: 14.585 min Scan# 2043
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:104 Resp: 68779

Ion	Ratio	Lower	Upper
104	100		
78	38.1	13.3	73.3
103	40.5	17.2	77.2

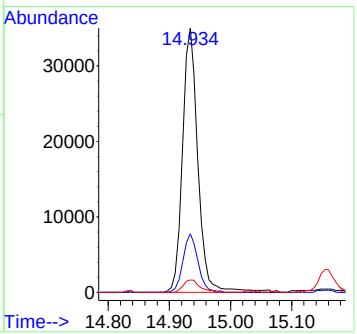


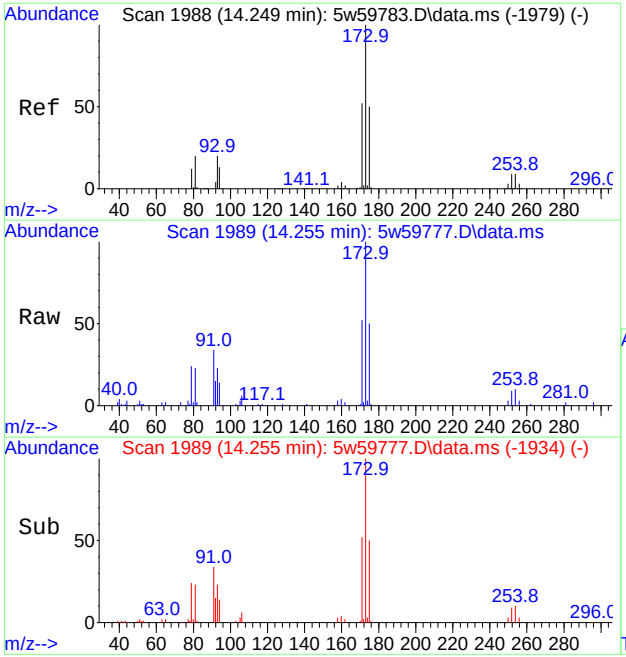


#83
NONANE
Concen: 0.39 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 61419

Ion	Ratio	Lower	Upper
43	100		
71	21.3	0.0	52.7
128	5.1	0.0	34.7

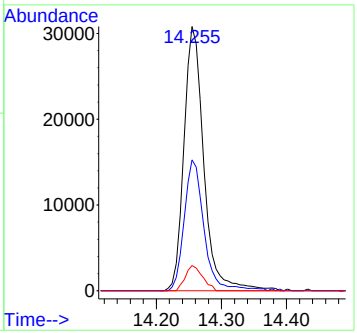


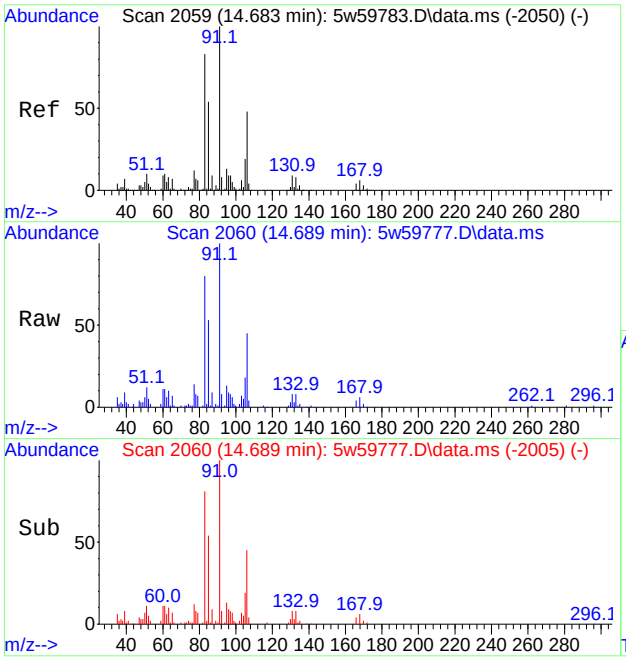


#84
BROMOFORM
Concen: 0.31 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:173 Resp: 65517

Ion	Ratio	Lower	Upper
173	100		
175	49.3	19.6	79.6
254	8.2	0.0	39.0

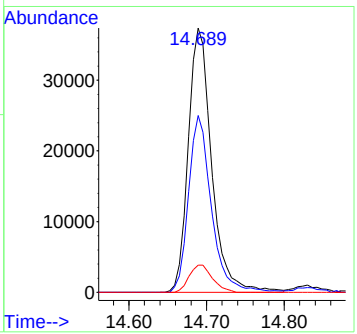


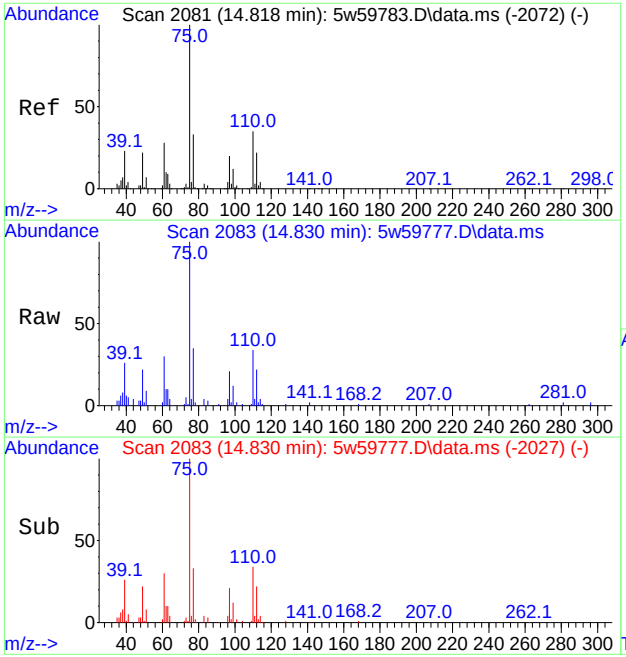


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.37 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 78542

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.2	95.2
131	10.3	0.0	40.3

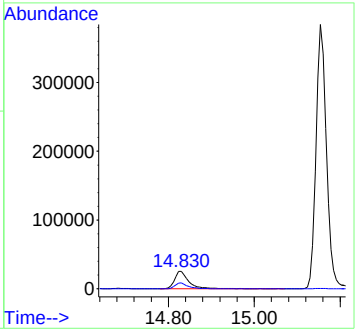


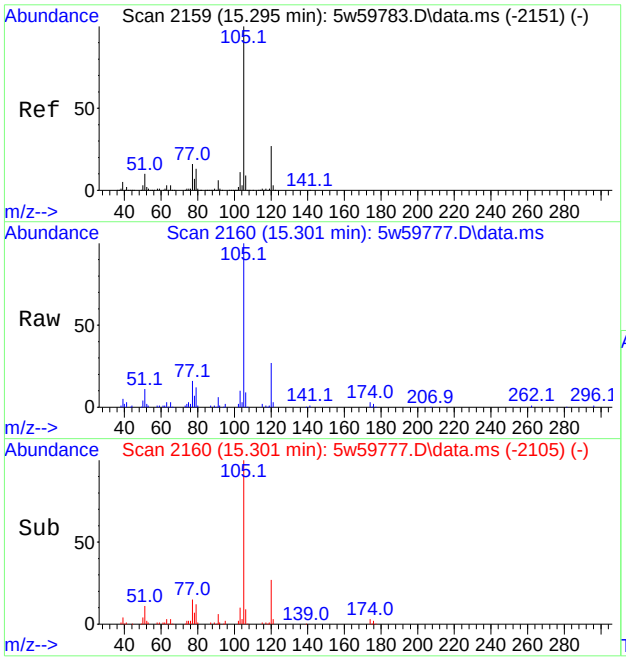


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.37 PPBV
RT: 14.830 min Scan# 2083
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 59513

Ion	Ratio	Lower	Upper
75	100		
110	30.7	4.4	64.4

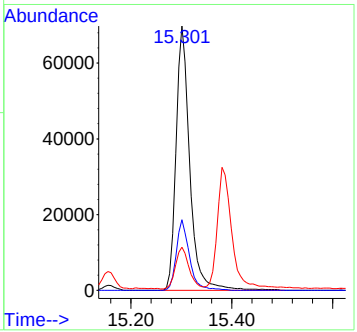


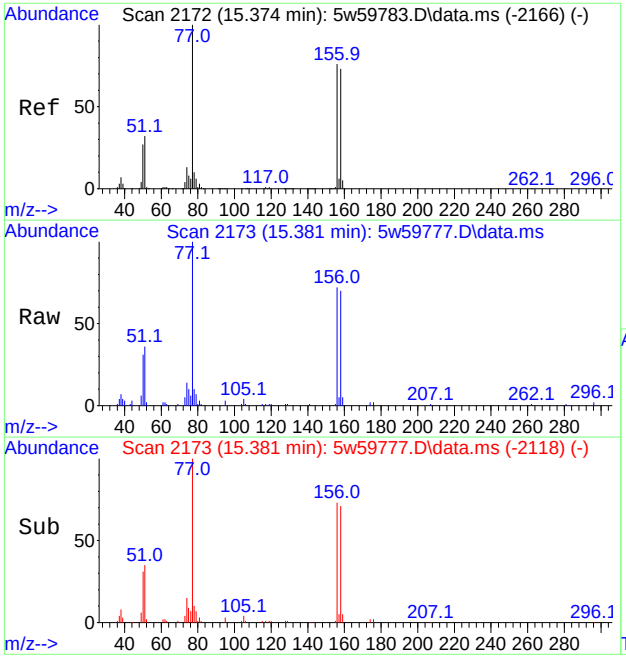


#88
ISOPROPYLBENZENE
Concen: 0.35 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 132085

Ion	Ratio	Lower	Upper
105	100		
120	25.5	0.0	56.0
77	15.4	0.0	45.6

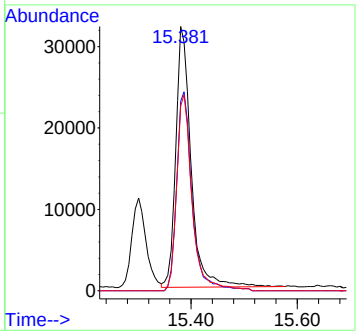


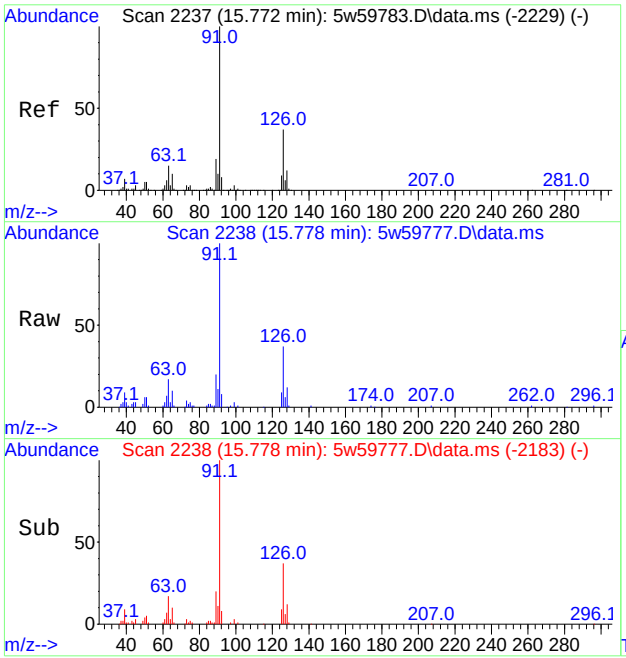


#89
BROMOBENZENE
Concen: 0.34 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 77 Resp: 64086

Ion	Ratio	Lower	Upper
77	100		
156	76.9	54.9	101.9
158	75.5	53.5	99.3

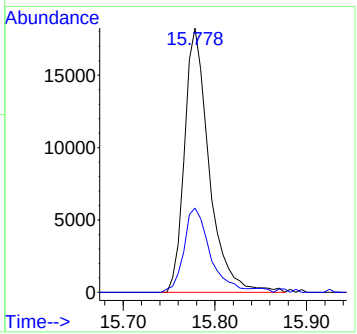


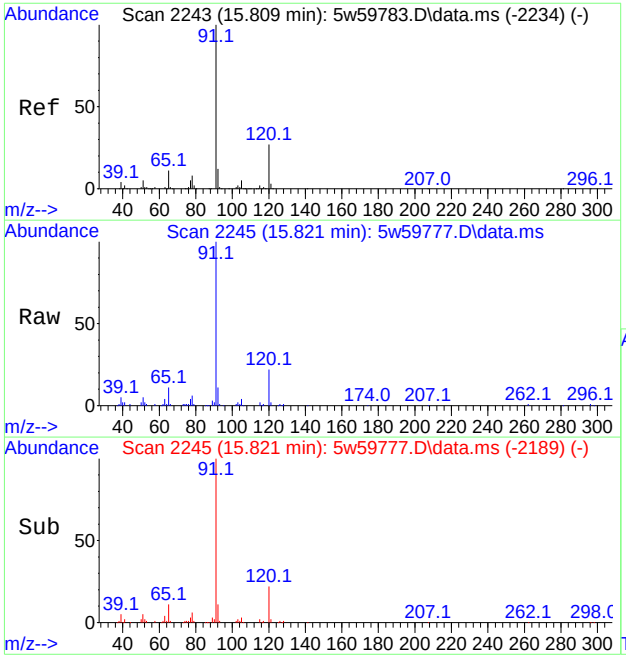


#90
2-CHLOROTOLUENE
Concen: 0.33 PPBV
RT: 15.778 min Scan# 2238
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:126 Resp: 34084

Ion	Ratio	Lower	Upper
126	100		
128	34.8	2.7	62.7

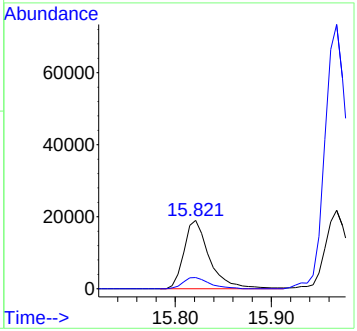


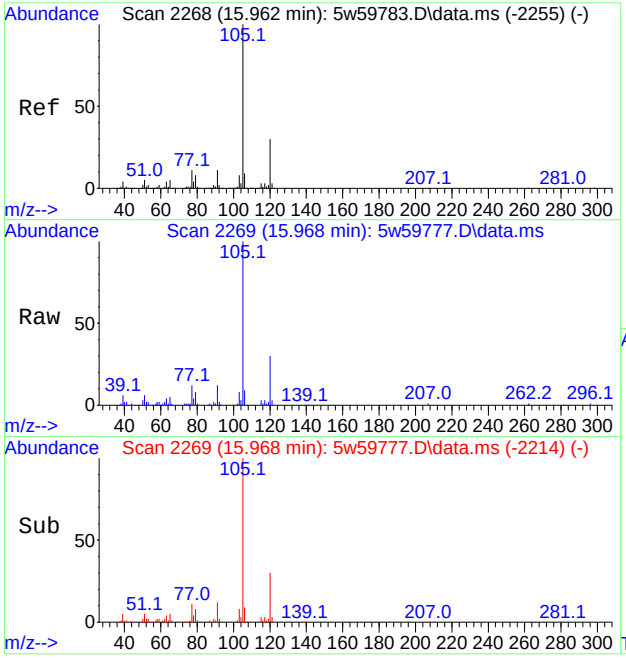


#91
n-PROPYLBENZENE
Concen: 0.34 PPBV
RT: 15.821 min Scan# 2245
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:120 Resp: 35058

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

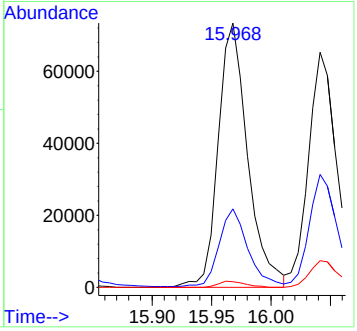


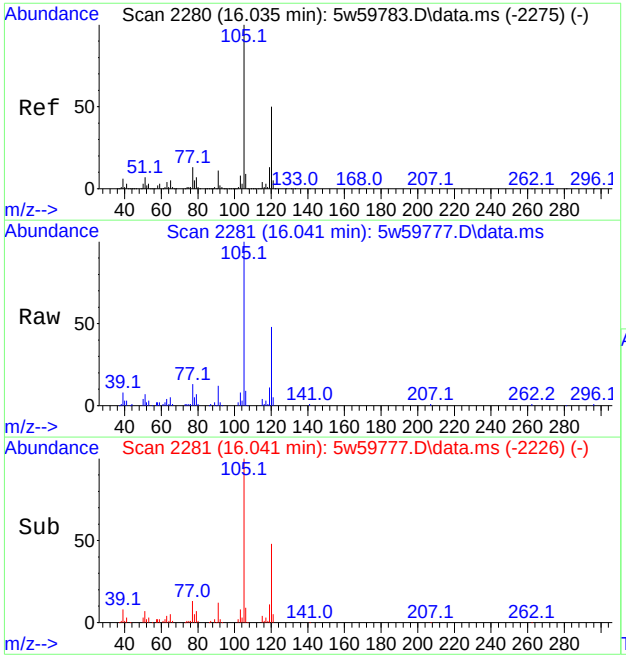


#92
4-ETHYLTOLUENE
Concen: 0.35 PPBV
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 126699

Ion	Ratio	Lower	Upper
105	100		
120	29.4	0.0	59.9
119	2.1	0.0	32.3

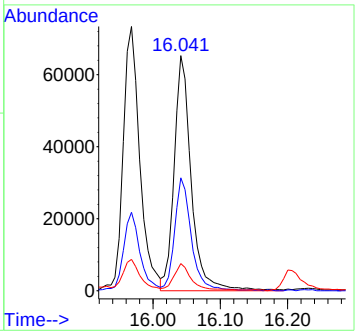


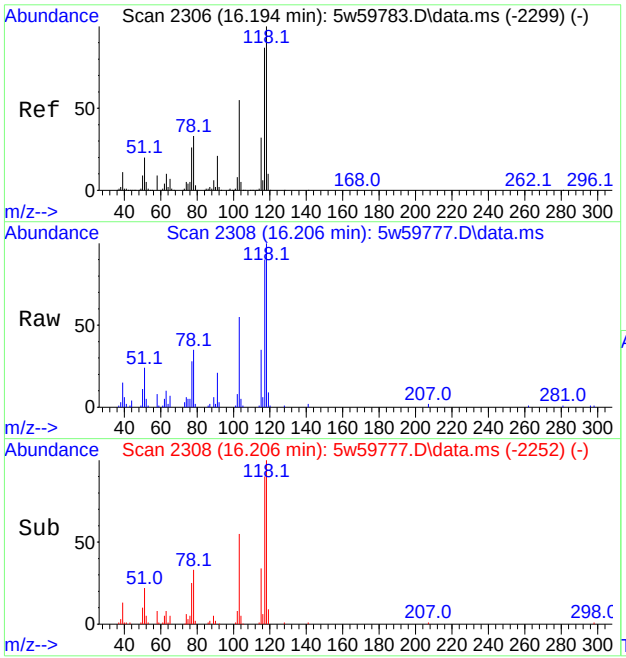


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.38 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 115870

Ion	Ratio	Lower	Upper
105	100		
120	47.0	19.4	79.4
91	12.8	0.0	40.8

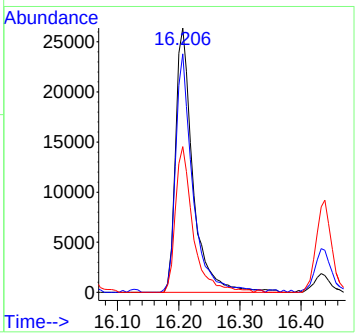


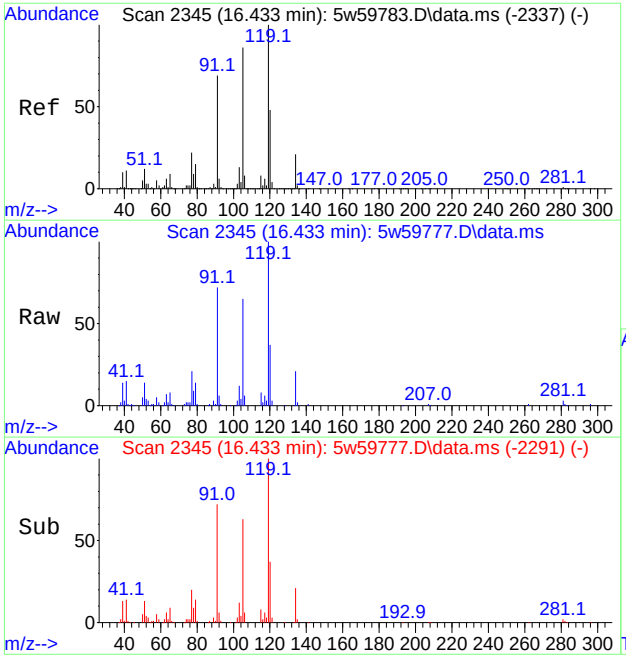


#94
ALPHA-METHYLSTYRENE
Concen: 0.31 PPBV
RT: 16.206 min Scan# 2308
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:118 Resp: 51966

Ion	Ratio	Lower	Upper
118	100		
117	89.3	60.9	113.1
103	55.9	38.6	71.8

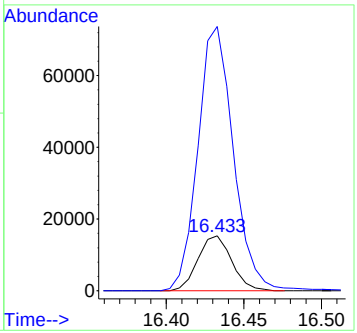


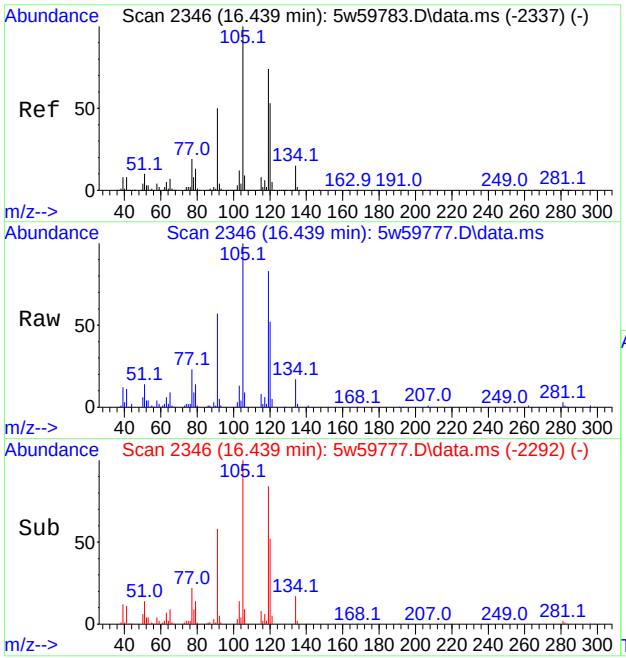


#95
tert-BUTYLBENZENE
Concen: 0.35 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 23128

Ion	Ratio	Lower	Upper
134	100		
119	509.5	459.3	519.3

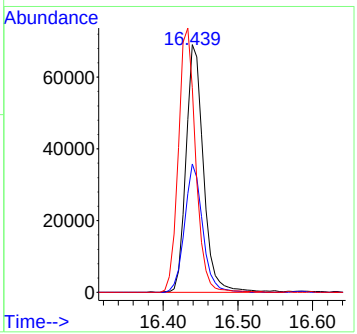


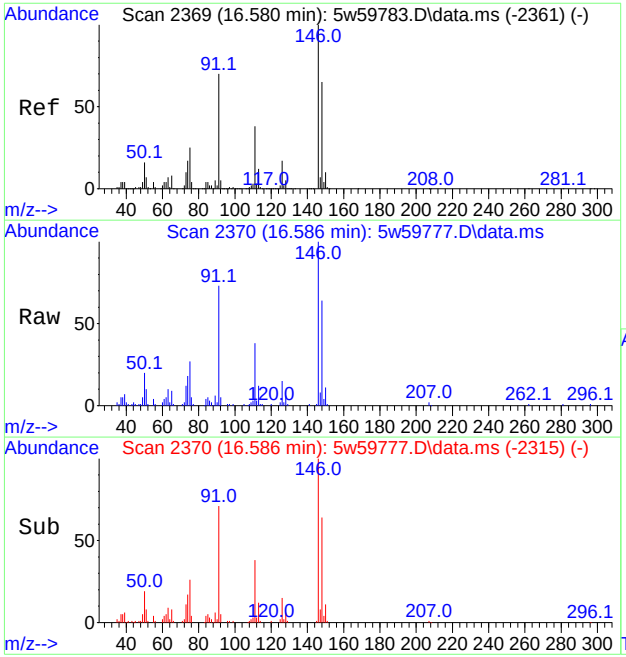


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 112549

Ion	Ratio	Lower	Upper
105	100		
120	53.3	25.7	85.7
119	104.7	75.7	135.7

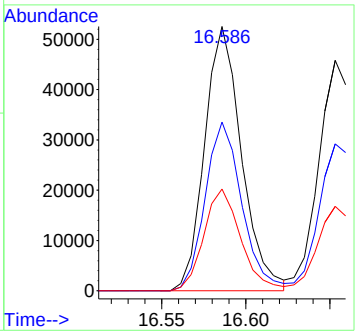


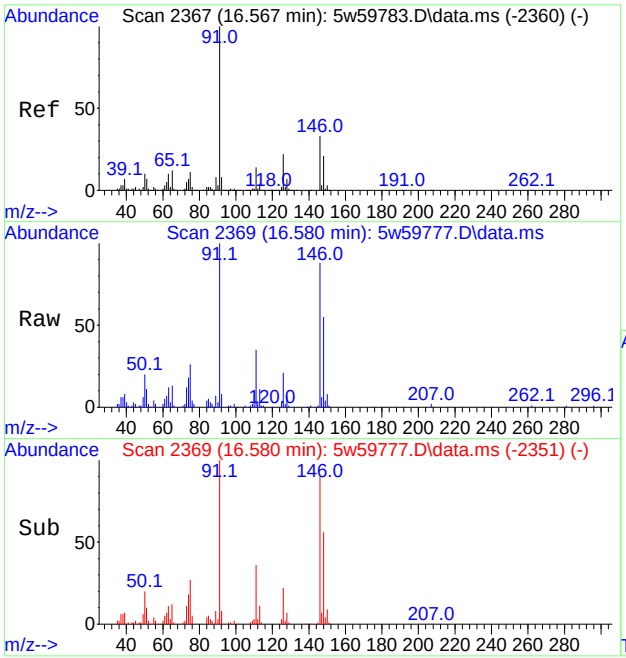


#97
m-DICHLOROBENZENE
Concen: 0.33 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 80323

Ion	Ratio	Lower	Upper
146	100		
148	63.5	34.8	94.8
111	38.5	8.2	68.2

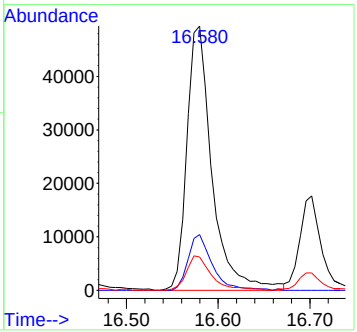


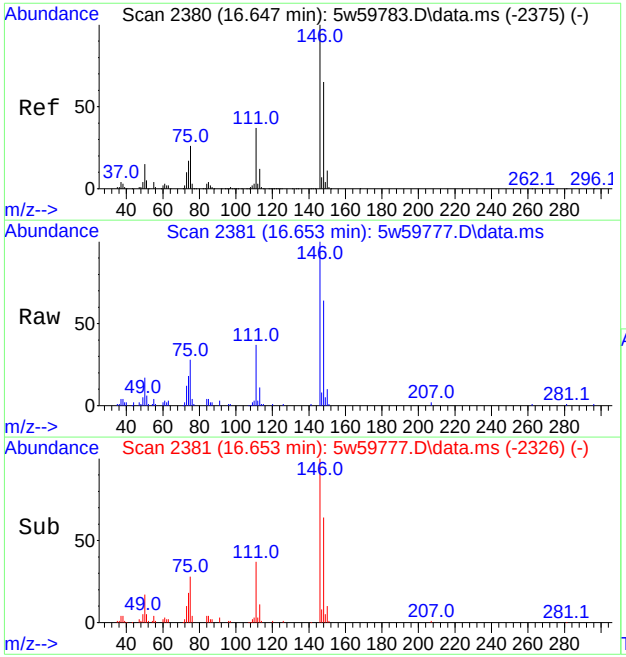


#98
BENZYL CHLORIDE
Concen: 0.31 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 94193

Ion	Ratio	Lower	Upper
91	100		
126	20.4	0.0	51.7
65	13.1	0.0	42.2

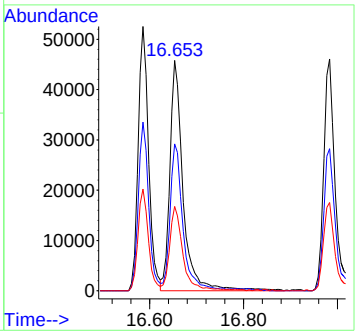


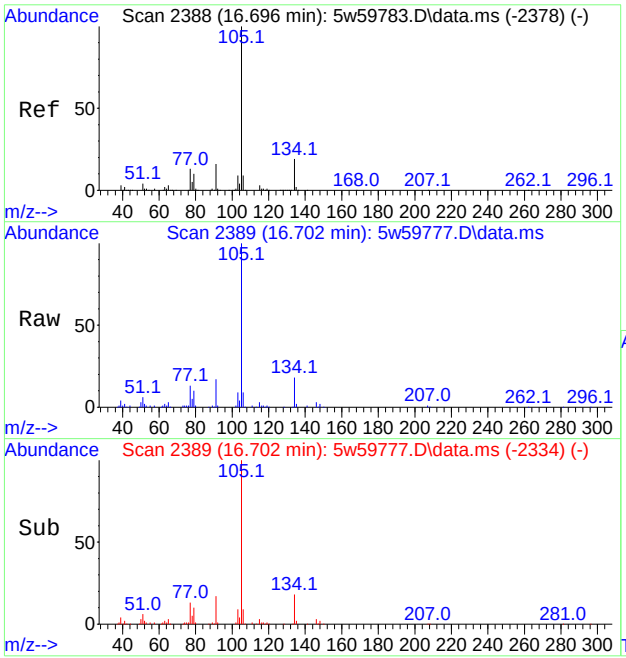


#99
p-DICHLOROBENZENE
Concen: 0.38 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 89982

Ion	Ratio	Lower	Upper
146	100		
148	63.9	34.6	94.6
111	37.0	6.7	66.7

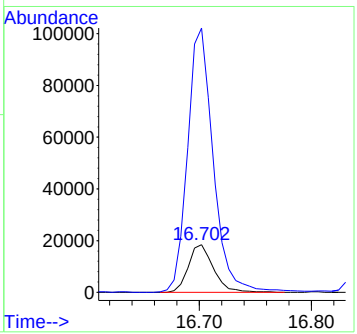


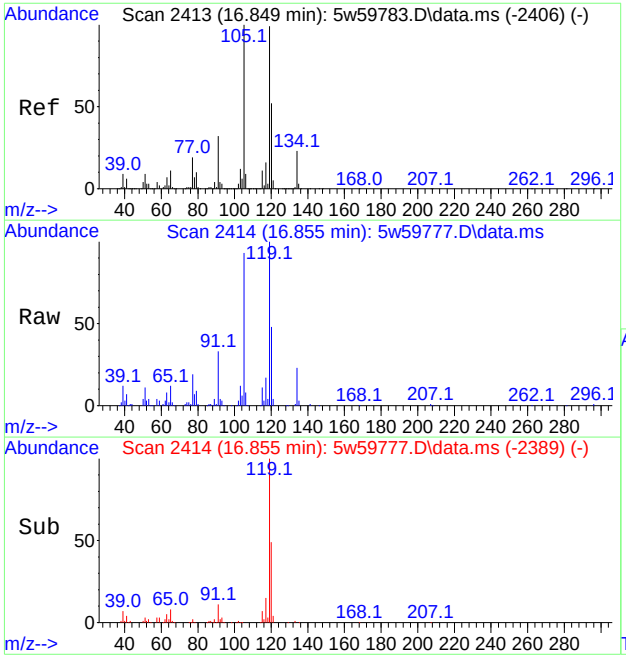


#100
sec-BUTYLBENZENE
Concen: 0.34 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 28746

Ion	Ratio	Lower	Upper
134	100		
105	570.2	502.5	562.5#

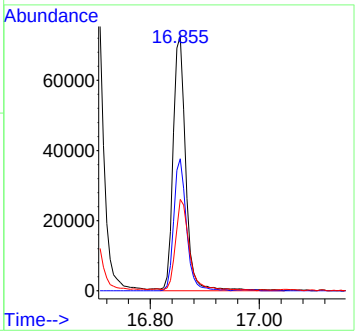


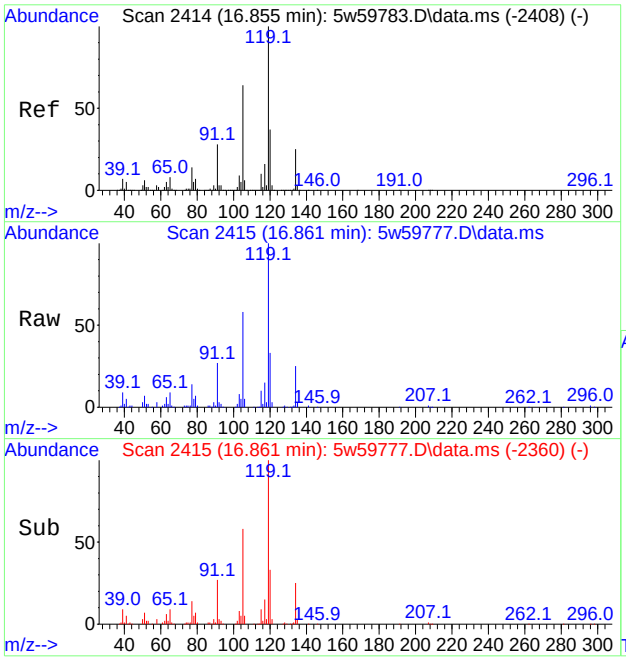


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 117540

Ion	Ratio	Lower	Upper
105	100		
120	51.6	23.5	83.5
91	39.7	7.4	67.4

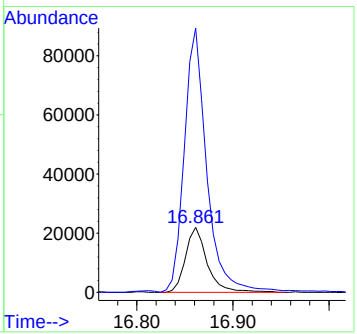


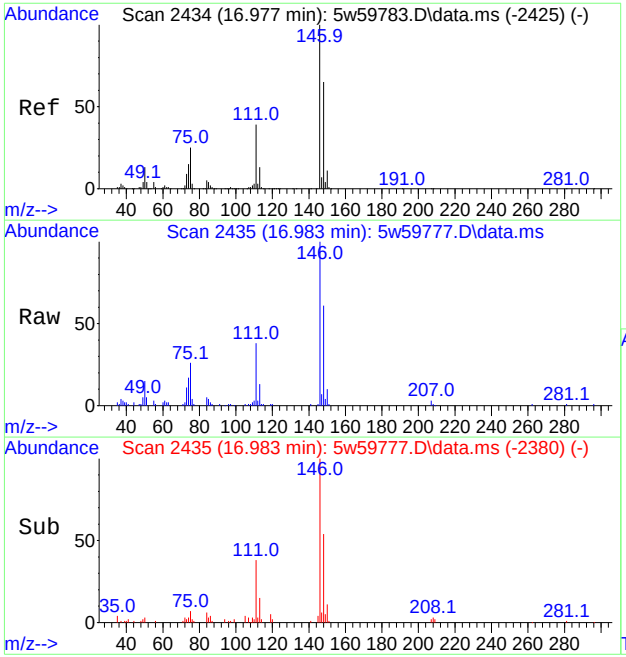


#102
p-ISOPROPYLTOLUENE
Concen: 0.35 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 34620

Ion	Ratio	Lower	Upper
134	100		
119	423.3	377.7	437.7

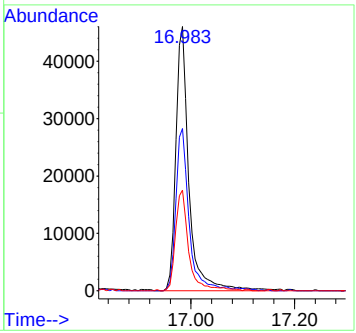


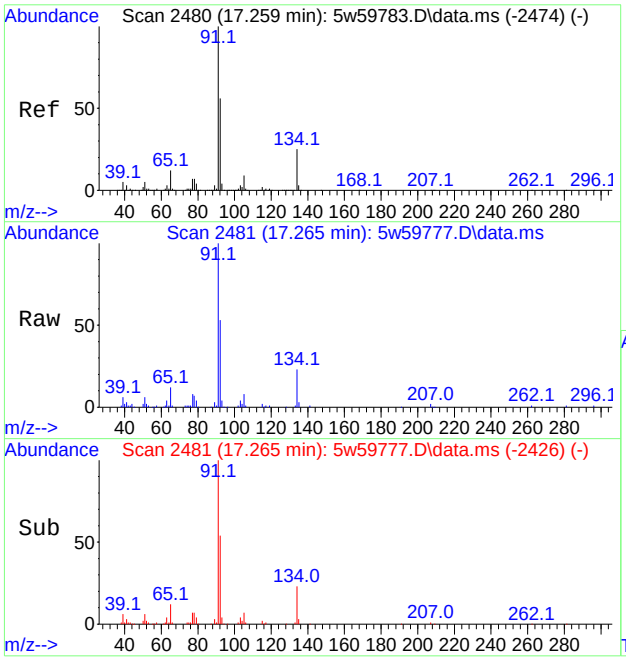


#103
o-DICHLOROBENZENE
Concen: 0.35 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 81336

Ion	Ratio	Lower	Upper
146	100		
148	61.4	34.3	94.3
111	38.4	9.2	69.2

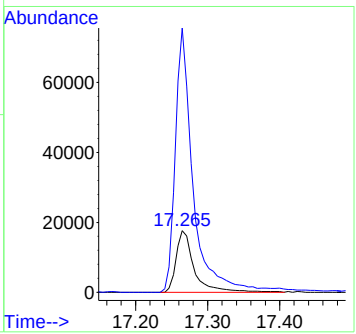


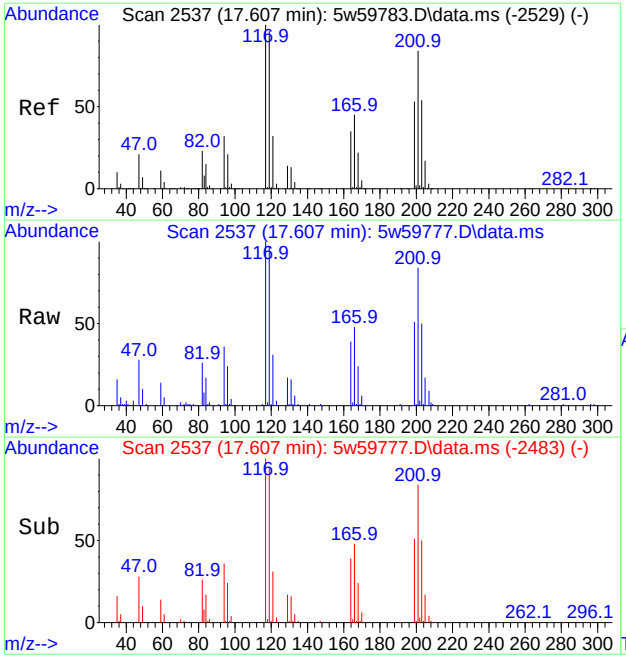


#104
n-BUTYLBENZENE
Concen: 0.32 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 31100

Ion	Ratio	Lower	Upper
134	100		
91	433.4	363.1	423.1#

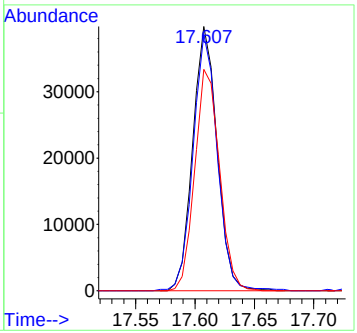


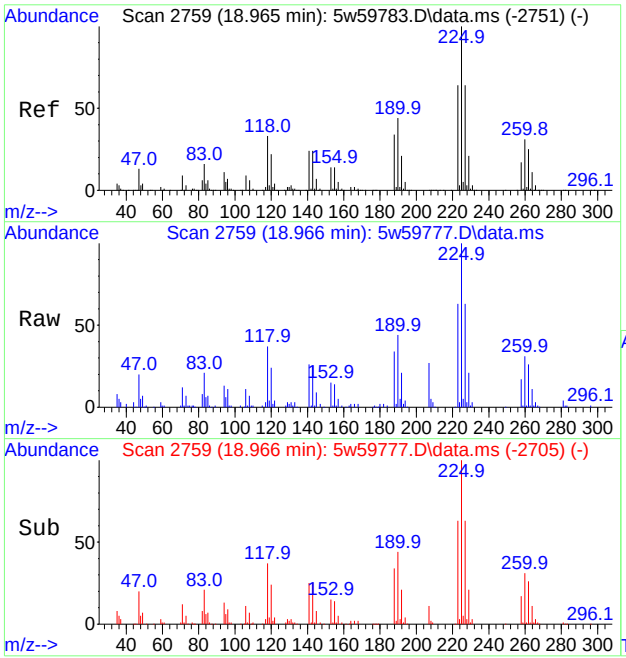


#105
HEXACHLOROETHANE
Concen: 0.36 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 56860

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	84.8	61.1	113.5

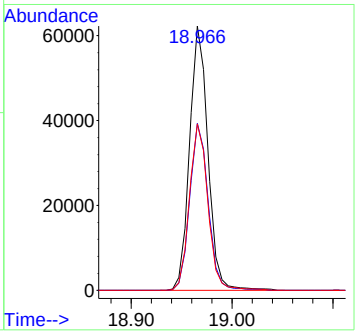


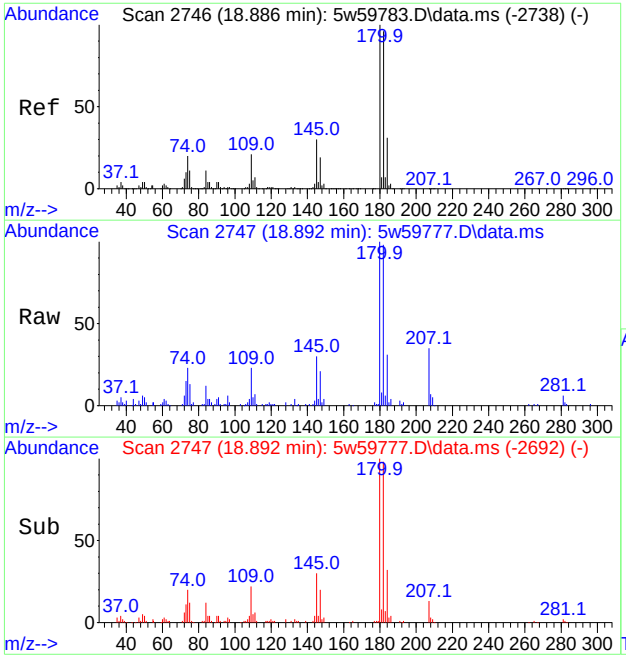


#106
HEXACHLOROBUTADIENE
Concen: 0.35 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:225 Resp: 78824

Ion	Ratio	Lower	Upper
225	100		
227	63.7	34.2	94.2
223	63.4	33.3	93.3

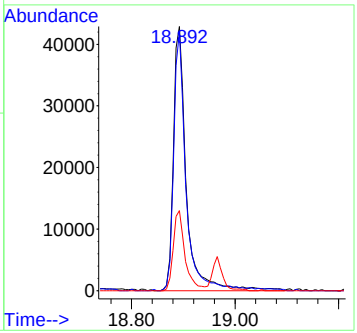


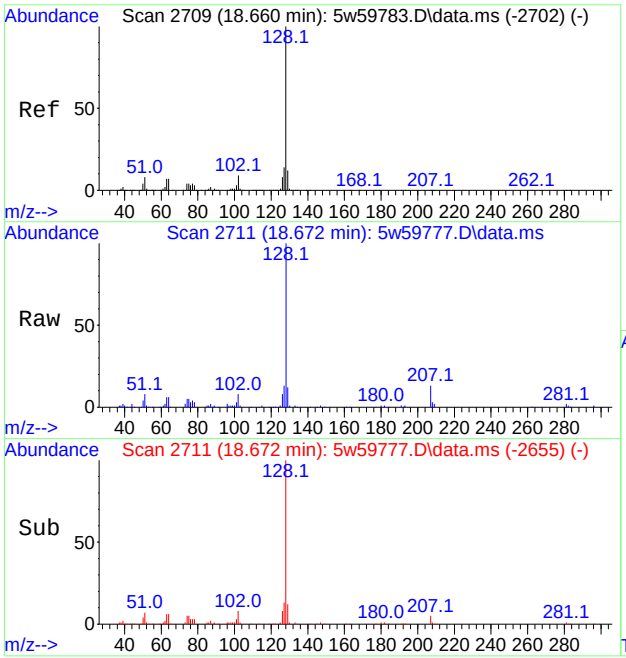


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.33 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:180 Resp: 74442

Ion	Ratio	Lower	Upper
180	100		
182	94.6	65.4	125.4
145	27.7	0.0	59.4

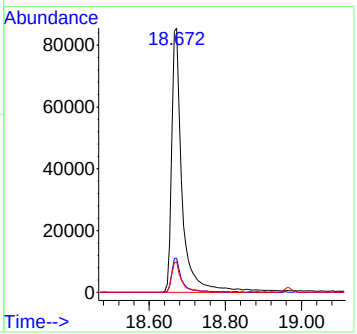


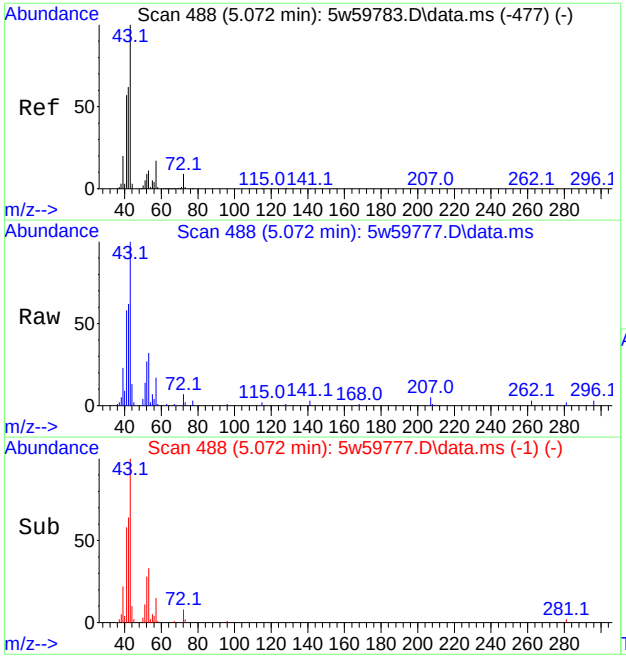


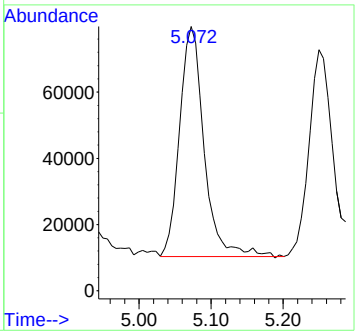
#108
NAPHTHALENE
Concen: 0.33 PPBV
RT: 18.672 min Scan# 2711
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:128 Resp: 165689

Ion	Ratio	Lower	Upper
128	100		
127	12.3	0.0	43.3
129	10.7	0.0	41.4







#110
TVHC as equiv Pentane
Concen: 0.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:TIC Resp: 163703

Manual Integration Approval Summary

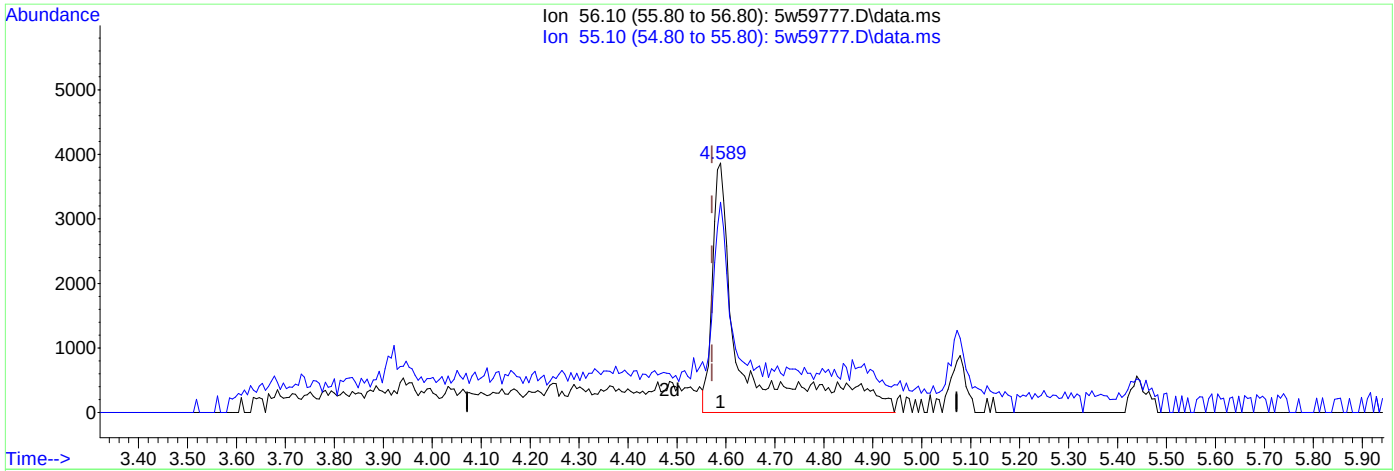
Sample Number: V5W2292-IC2292
Lab FileID: 5W59777.D
Injection Time: 11/07/25 03:41
Method: TO-15
Analyst approved: 11/07/25 21:30 Benjamin Kim
Supervisor approved: 11/10/25 12:57 Kanya Veerawat

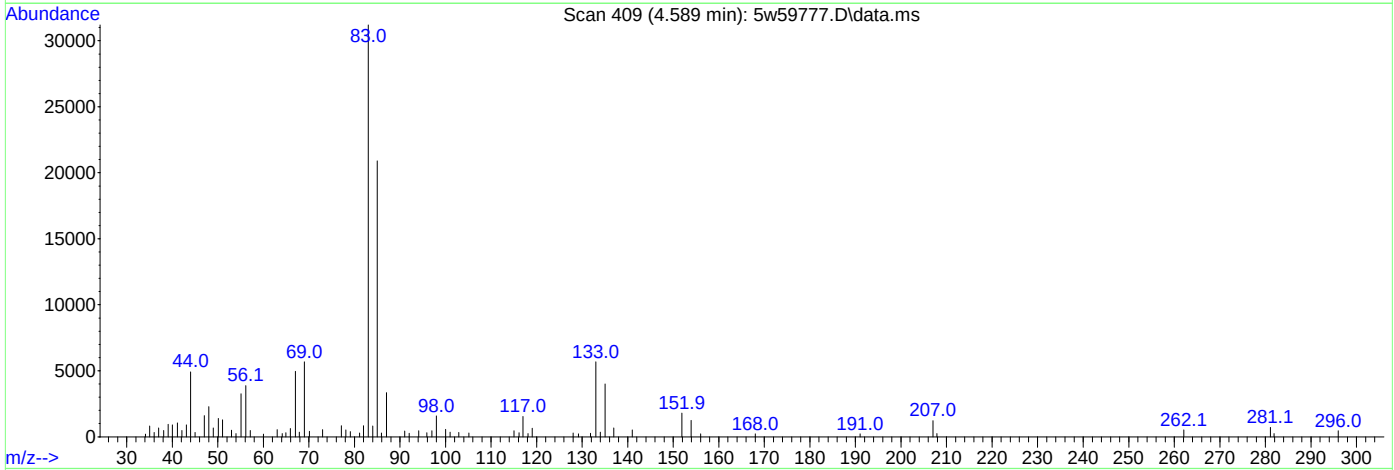
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.59	Poor instrument integration
Freon 123	306-83-2		4.59	Poor instrument integration
Methyl Acrylate	96-33-3		7.45	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.63PPBV

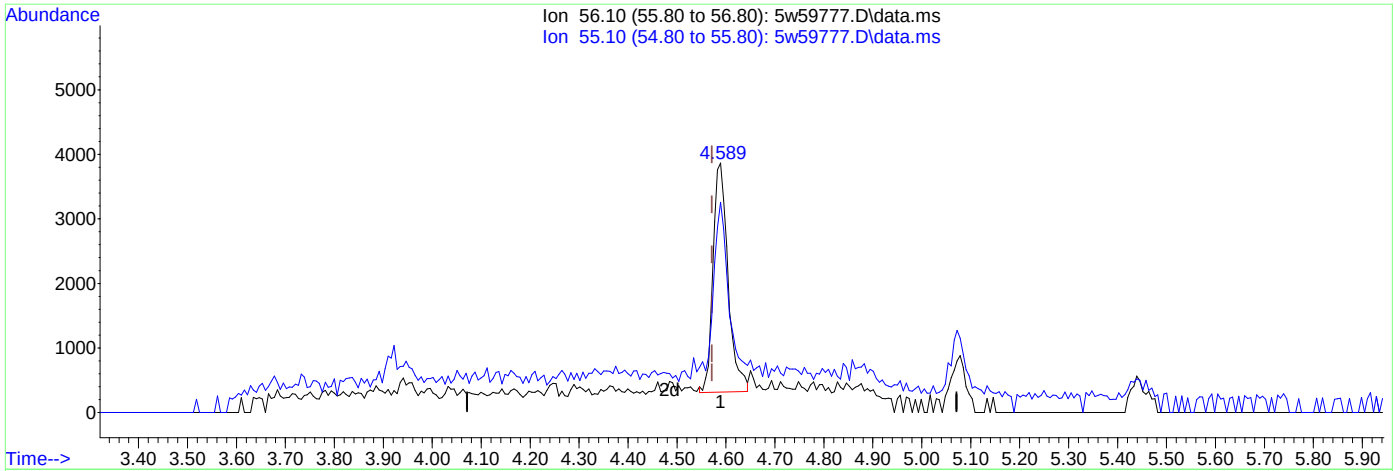
response 15953

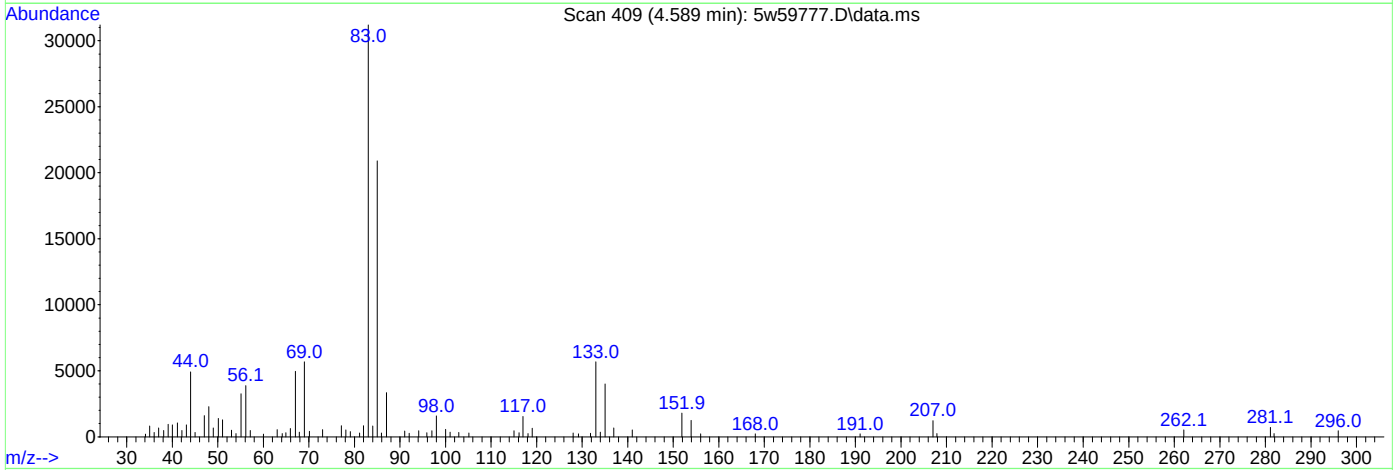
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	37.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.30PPBV m

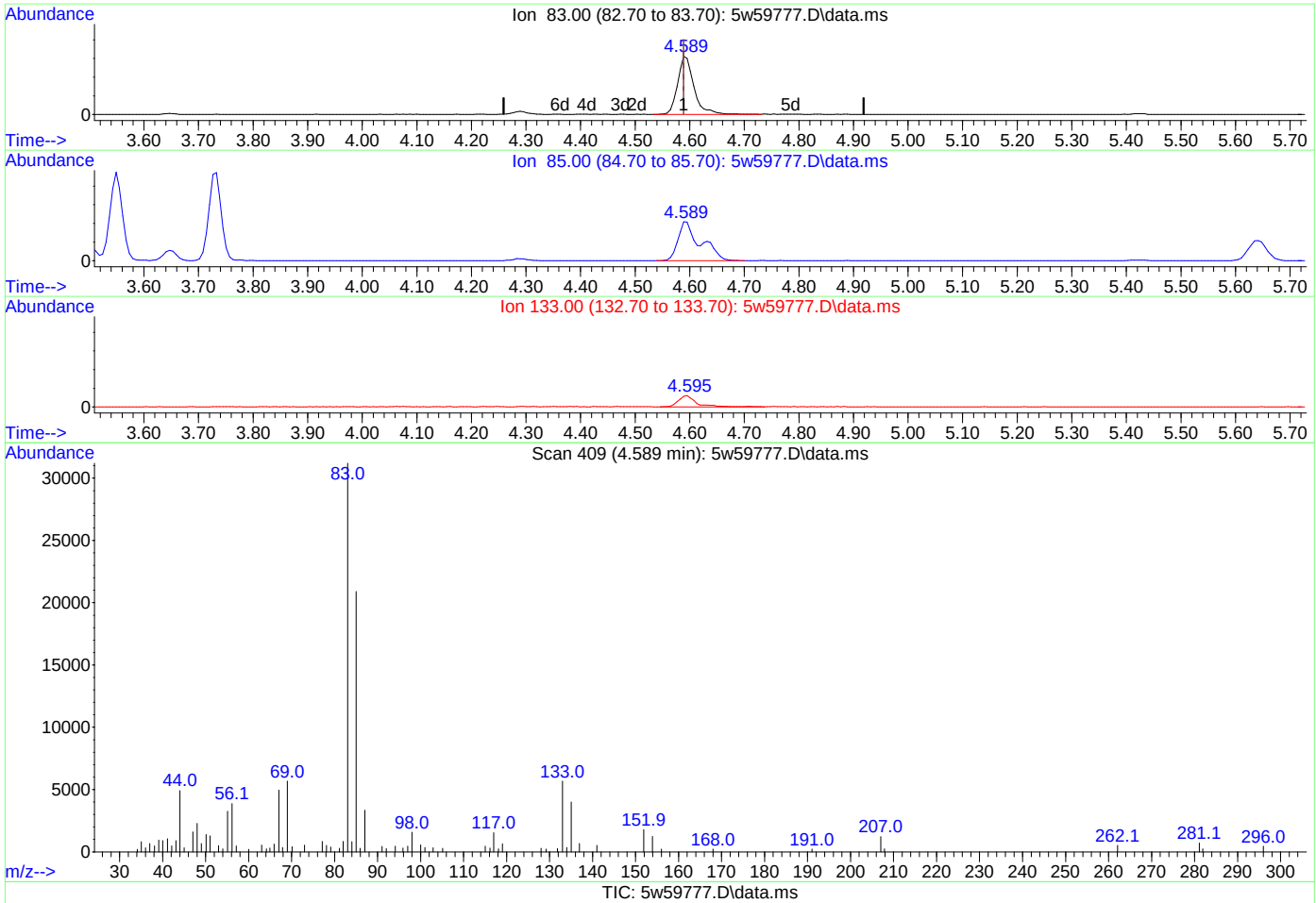
response 7542

Ion	Exp%	Act%
56.10	100	100
55.10	66.60	78.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV

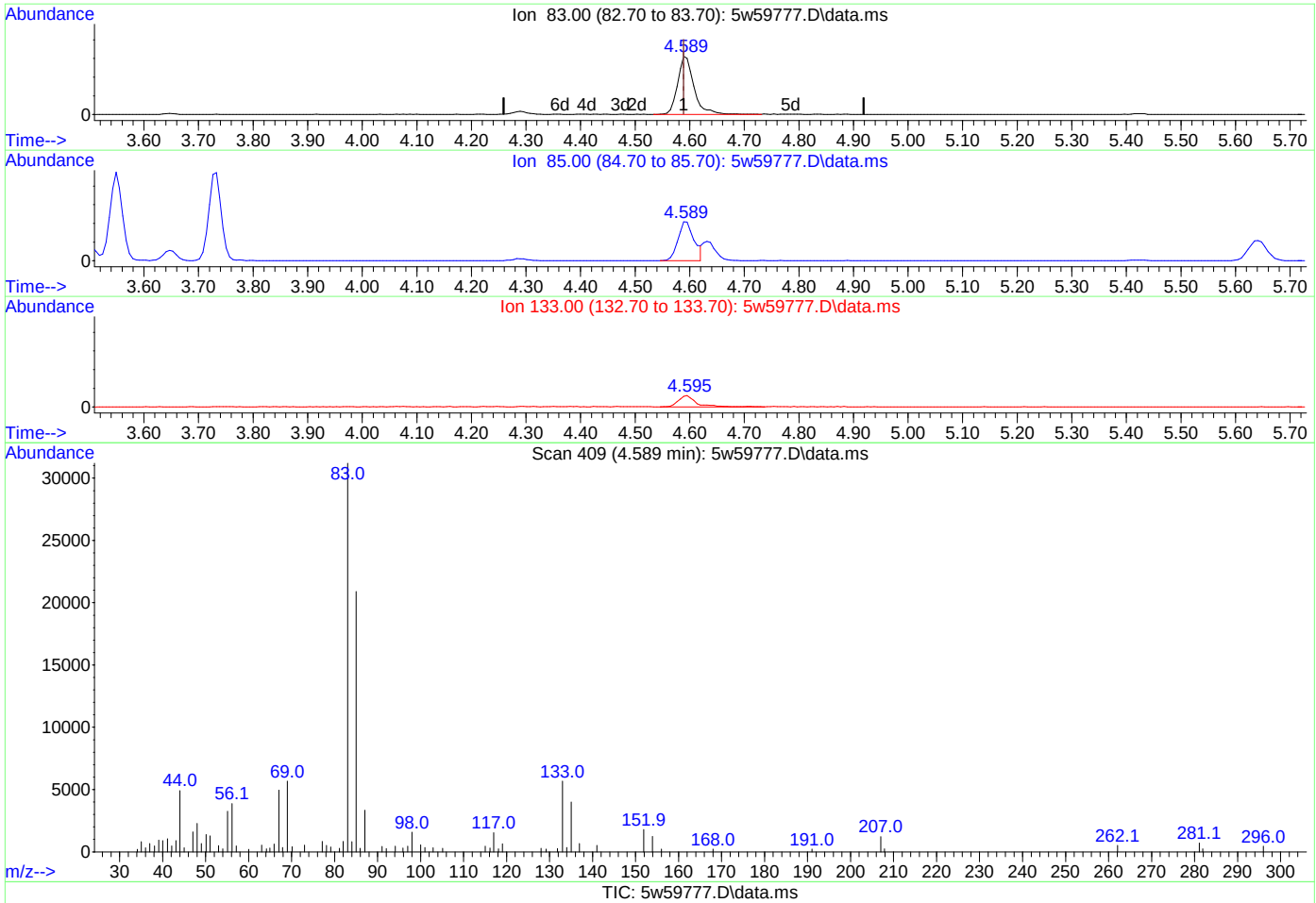
response 65470

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	91.44
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV m

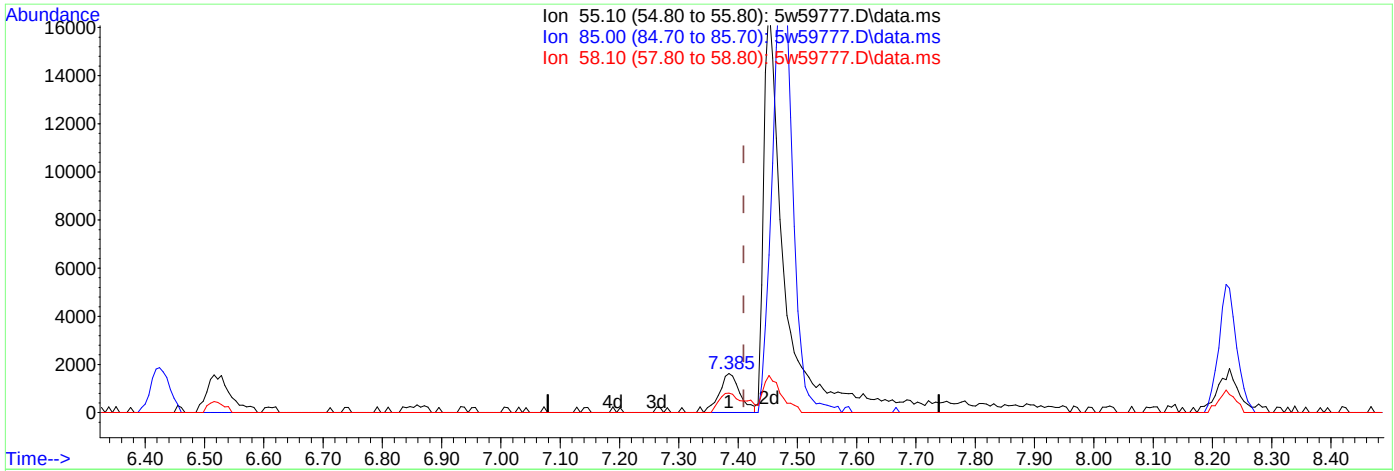
response 65470

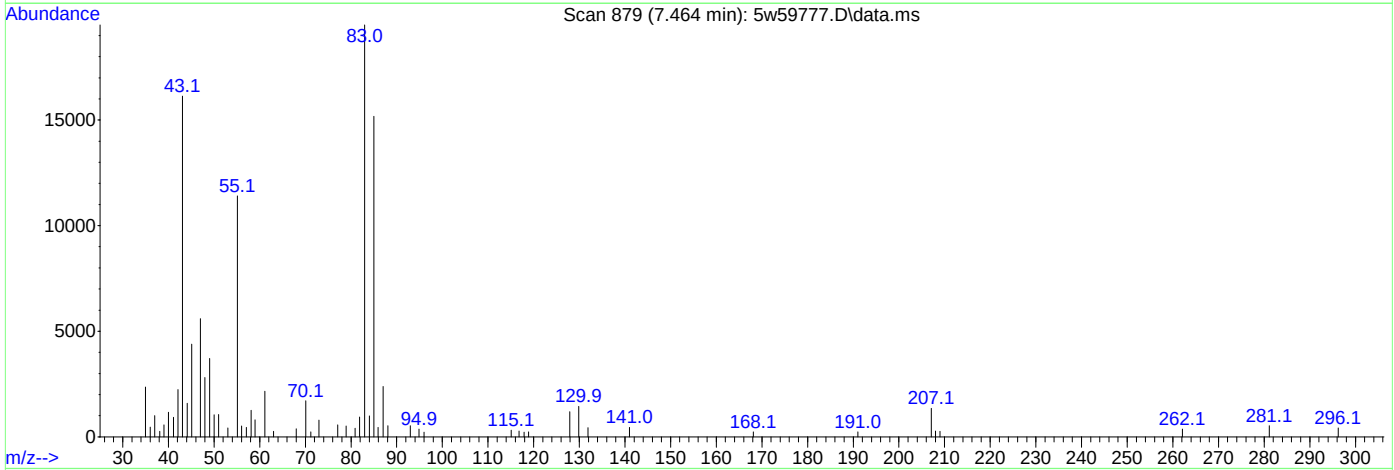
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.82
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.03PPBV

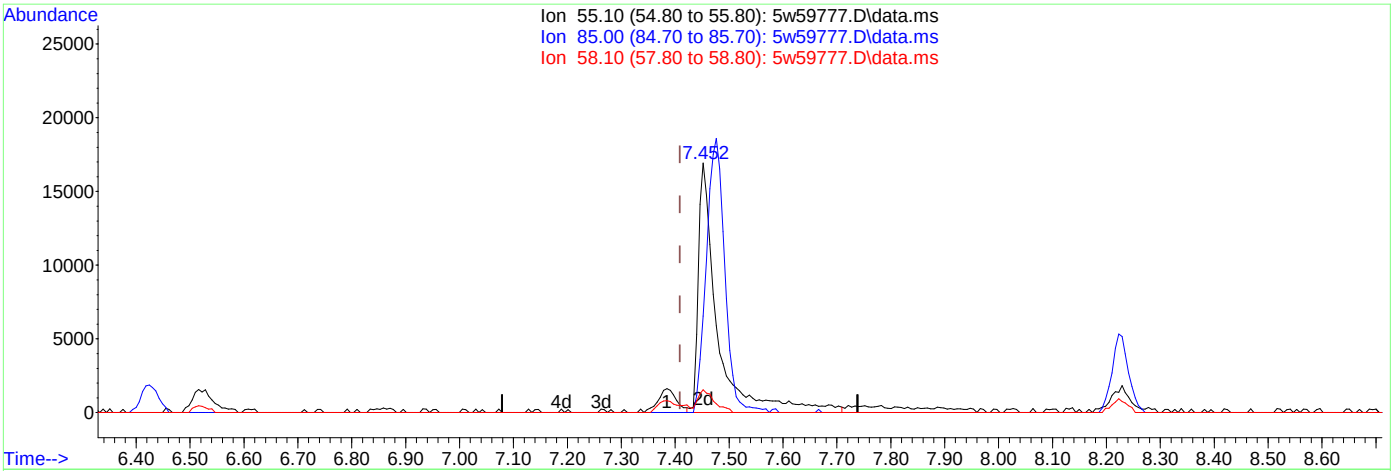
response 4031

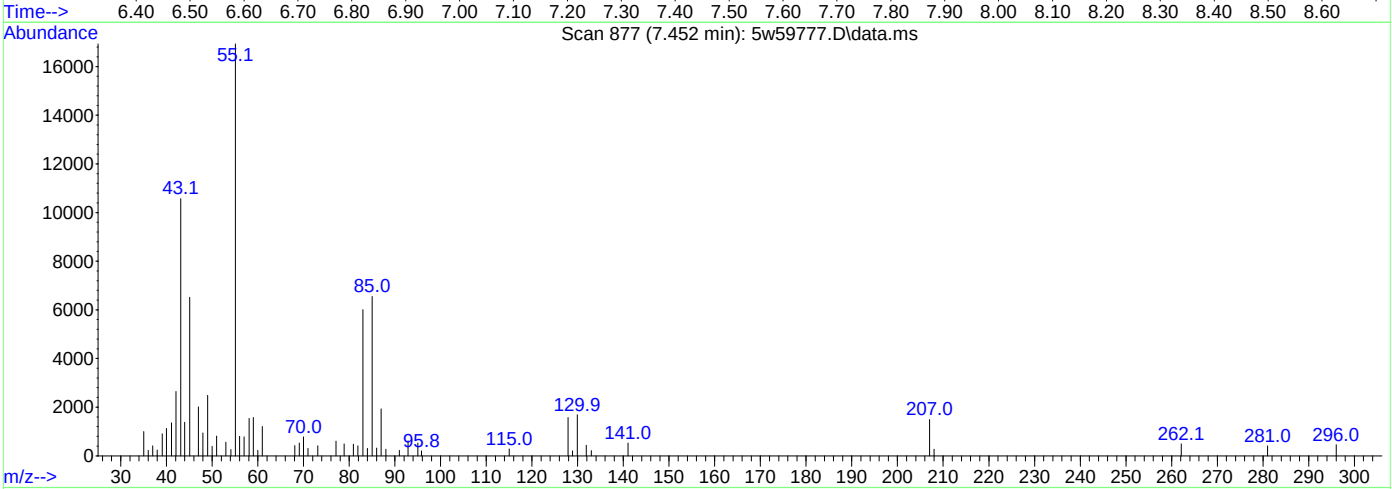
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	63.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.452min (+0.043) 0.30PPBV m

response 42153

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	6.03#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	462457	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2061895	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1060612	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	463168	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1407517	10.67	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.70%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	208779	4.00	PPBV	100
3) FREON 152A	3.445	65	155544	4.45	PPBV	99
4) CHLORODIFLUOROMETHANE	3.482	67	78206	4.97	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	379587	5.00	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	728724	4.91	PPBV	99
7) PROPYLENE	3.500	41	173008	4.61	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	566971	4.38	PPBV	99
9) FREON 114	3.733	85	711067	5.56	PPBV	99
10) CHLOROMETHANE	3.665	52	72544	4.72	PPBV	94
11) VINYL CHLORIDE	3.818	62	241017	4.89	PPBV	100
12) 1,3-BUTADIENE	3.916	54	147915	4.60	PPBV	99
13) n-BUTANE	3.947	43	235159	4.12	PPBV	98
14) BROMOMETHANE	4.106	94	254496	5.13	PPBV	99
15) CHLOROETHANE	4.228	64	109032	4.83	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	519301	4.56	PPBV	100
17) ACETONITRILE	4.485	41	129687	3.95	PPBV	100
18) ACROLEIN	4.577	56	83602	4.77	PPBV	95
19) FREON 123	4.595	83	601219m	5.20	PPBV	
20) FREON 123A	4.638	117	365750	5.13	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.797	101	638121	4.08	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	477900	4.35	PPBV	98
23) ACETONE	4.681	58	90961	4.50	PPBV	95
24) PENTANE	5.079	42	223509	3.74	PPBV	99
25) IODOMETHANE	5.256	142	791555	5.20	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	251542	4.66	PPBV	99
27) CARBON DISULFIDE	5.672	76	690855	4.87	PPBV	100
28) ETHANOL	4.320	45	86798	4.05	PPBV	100
29) BROMOETHENE	4.485	106	258283	5.39	PPBV	100
30) ACRYLONITRILE	5.048	52	155799	4.59	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	220204	4.55	PPBV	99
32) 3-CHLOROPROPENE	5.525	76	110268	4.99	PPBV	99
33) FREON 113	5.641	151	441351	4.66	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	257488	4.68	PPBV	97
35) TERTIARY BUTYL ALCOHOL	5.384	59	498869	4.44	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.486	73	676684	5.04	PPBV	100
37) TETRAHYDROFURAN	7.868	72	99619	5.53	PPBV	100
38) HEXANE	7.385	57	379941	5.02	PPBV	99
39) VINYL ACETATE	6.571	86	40455	4.63	PPBV	96
40) 1,1-DICHLOROETHANE	6.424	63	482232	4.85	PPBV	99
41) METHYL ETHYL KETONE	6.804	72	108805	5.80	PPBV	98
42) cis-1,2-DICHLOROETHYLENE	7.201	96	269410	4.74	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	116383	5.65	PPBV	97
44) ETHYL ACETATE	7.428	61	87258m	5.60	PPBV	
45) METHYL ACRYLATE	7.409	55	471994	5.35	PPBV	99
46) CHLOROFORM	7.477	83	570969	4.95	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	444023	5.08	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	592452	4.75	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	658939	4.82	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	401494	4.97	PPBV		100
52)	BENZENE	8.853	78	741517	5.39	PPBV		100
53)	CYCLOHEXANE	9.110	84	297316	5.48	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.349	71	144492	5.25	PPBV		97
55)	TRICHLOROETHYLENE	9.887	95	369372	5.01	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	300591	5.12	PPBV		100
57)	DIBROMOMETHANE	9.630	174	391164	4.83	PPBV		99
58)	ETHYL ACRYLATE	9.685	55	582502	5.68	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	653402	5.05	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.912	57	1206122	5.26	PPBV		100
61)	1,4-DIOXANE	9.912	88	168473	5.89	PPBV	#	8
62)	HEPTANE	10.187	43	406924	4.93	PPBV		99
63)	METHYL METHACRYLATE	10.113	69	247000	5.84	PPBV		97
64)	METHYL ISOBUTYL KETONE	10.799	58	240795	5.60	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	10.750	75	494703	5.47	PPBV		86
66)	TOLUENE	11.722	92	547474	5.55	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	446082m	5.43	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	434584	5.29	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	301561	5.53	PPBV		99
71)	2-HEXANONE	12.022	58	344921	6.43	PPBV		99
72)	ETHYL METHACRYLATE	12.028	69	445397	6.46	PPBV		97
73)	TETRACHLOROETHYLENE	12.872	164	427336	5.33	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	728217	5.41	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	595110	5.98	PPBV		100
76)	OCTANE	12.744	43	576898	5.29	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	463451	5.26	PPBV		99
78)	CHLOROBENZENE	13.582	112	750075	5.17	PPBV		98
79)	ETHYLBENZENE	13.986	91	1198151	5.80	PPBV		100
80)	m,p-XYLENE	14.182	106	943241	11.83	PPBV		99
81)	o-XYLENE	14.677	106	456348	6.21	PPBV		100
82)	STYRENE	14.573	104	711140	6.37	PPBV		100
83)	NONANE	14.934	43	586796	5.44	PPBV		99
84)	BROMOFORM	14.249	173	765790	5.54	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	804240	6.16	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	563086	5.21	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	1351649	5.60	PPBV		100
89)	BROMOBENZENE	15.375	77	663458	5.25	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	351599	5.42	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	357322	5.54	PPBV		99
92)	4-ETHYLTOLUENE	15.962	105	1362882	6.29	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	1159491	5.77	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	573224	5.89	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	250823	6.02	PPBV		96
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	1191915	6.18	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	871935	5.56	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	1137176	6.44	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	878264	5.40	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	309649	5.79	PPBV		97
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	1209627	5.87	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	367882	6.01	PPBV		96
103)	o-DICHLOROBENZENE	16.977	146	831952	5.25	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	353476	6.27	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	597723	5.71	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	827665	5.13	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	807736	7.16	PPBV		100
108)	NAPHTHALENE	18.660	128	1912544	7.30	PPBV		99
110)	TVHC as equiv Pentane	5.072	TIC	1469674	4.29	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

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

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

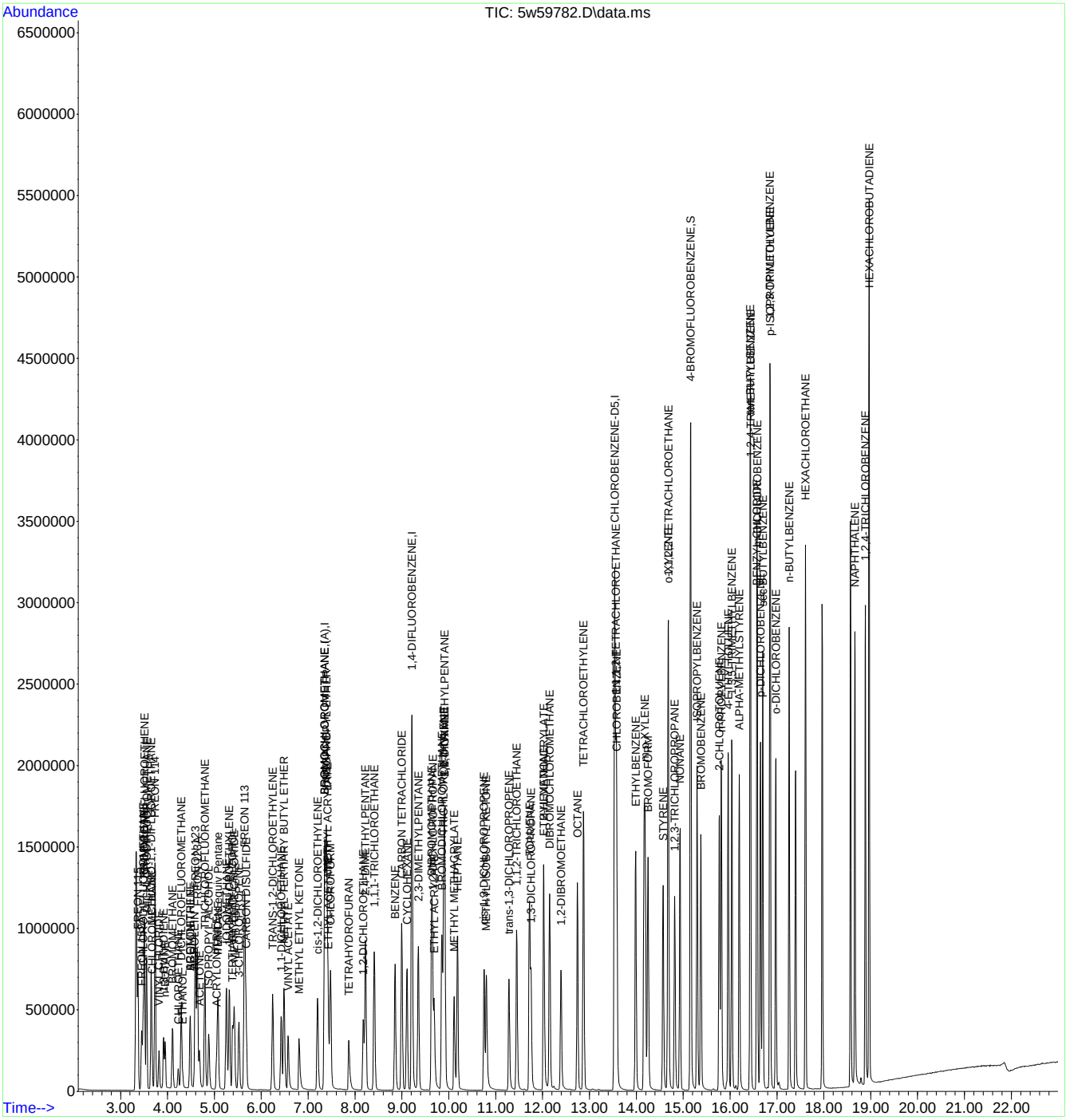
7.7.5

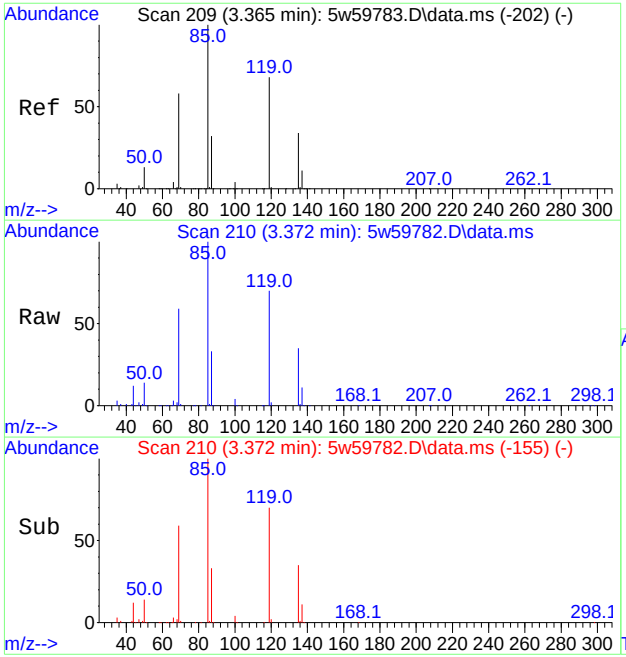
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

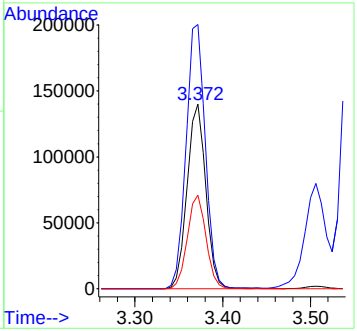


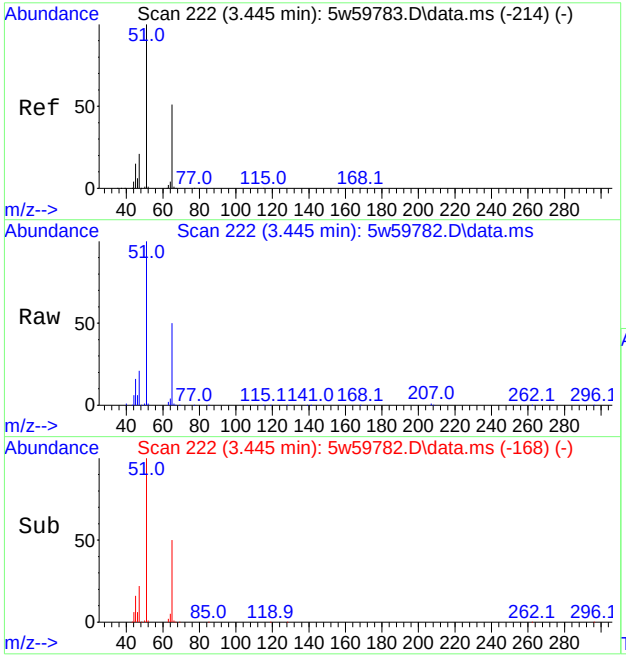


#2
FREON 115
Concen: 4.00 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:119 Resp: 208779

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.6	20.6	80.6

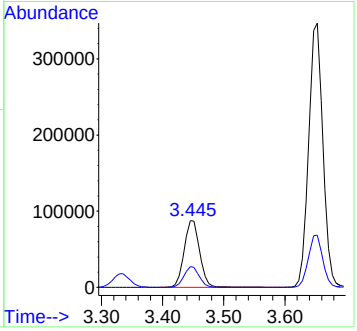


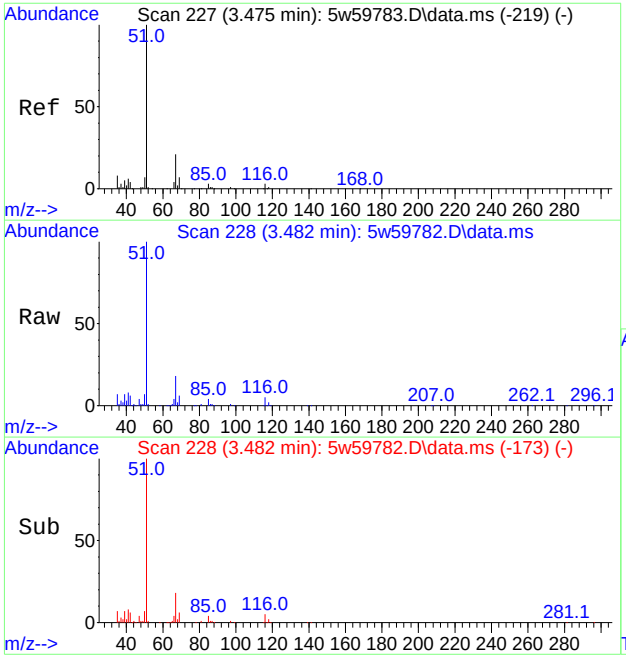


#3
FREON 152A
Concen: 4.45 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 155544

Ion	Ratio	Lower	Upper
65	100		
45	30.4	0.0	60.0

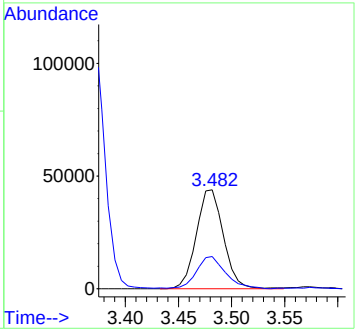


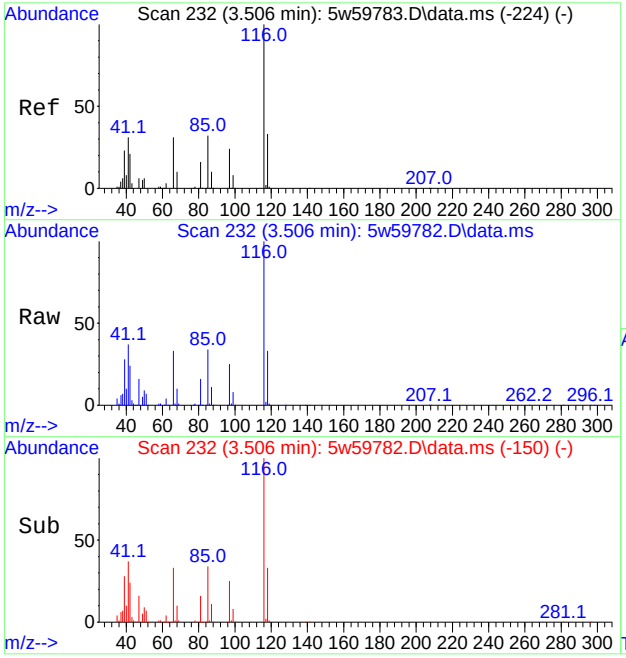


#4
CHLORODIFLUOROMETHANE
Concen: 4.97 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 78206

Ion	Ratio	Lower	Upper
67	100		
69	32.7	1.0	61.0

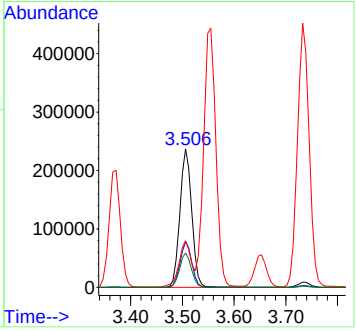


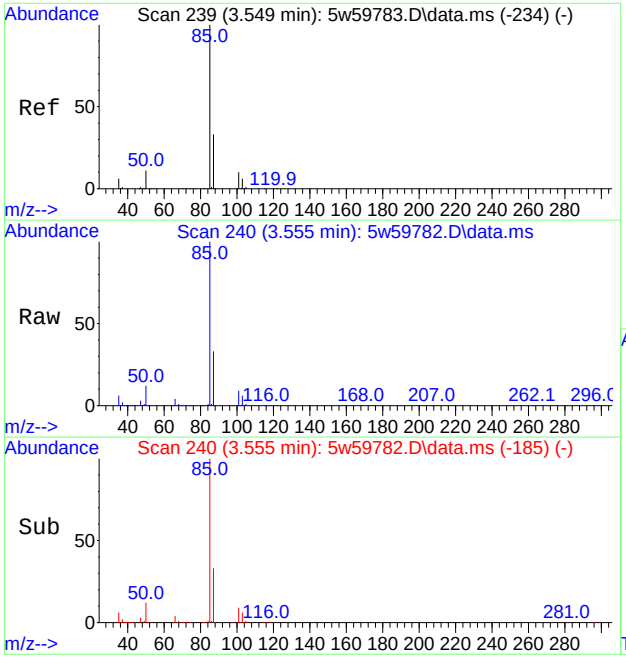


#5
CHLOROTRIFLUOROETHENE
Concen: 5.00 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:116 Resp: 379587

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.9	42.5
85	35.3	23.7	44.1
97	24.4	17.0	31.6

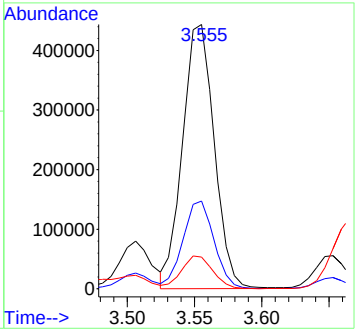


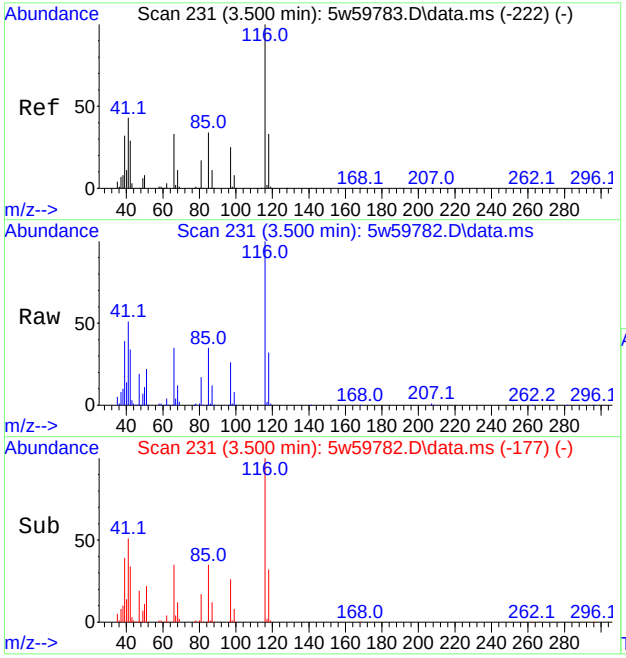


#6
DICHLORODIFLUOROMETHANE
Concen: 4.91 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 728724

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	12.3	0.0	41.7

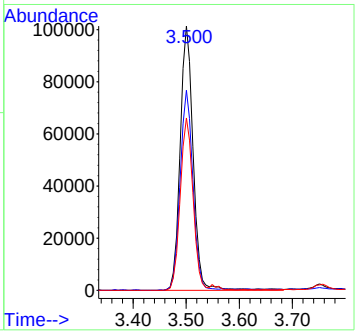


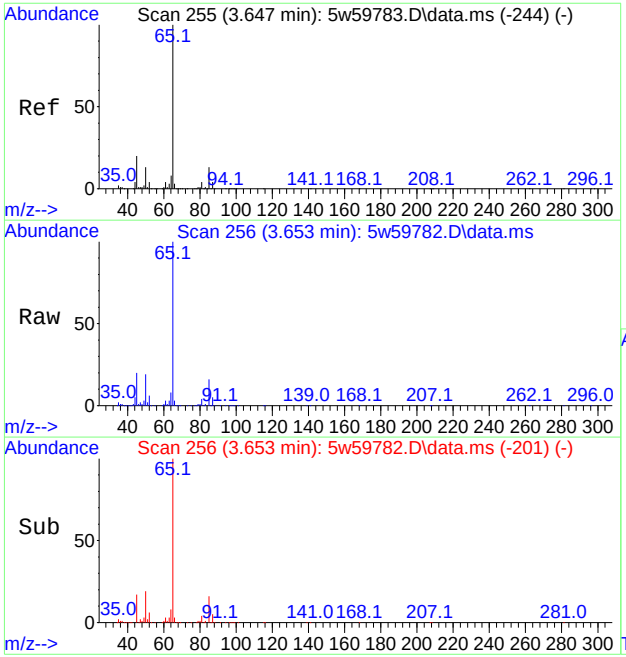


#7
PROPYLENE
Concen: 4.61 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 173008

Ion	Ratio	Lower	Upper
41	100		
39	77.1	45.1	105.1
42	63.7	36.3	96.3

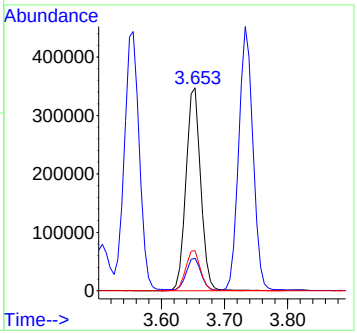


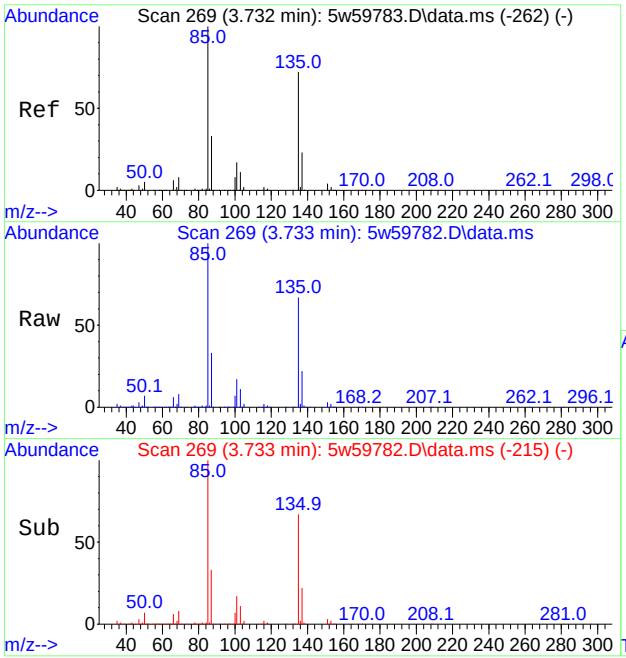


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 4.38 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 566971

Ion	Ratio	Lower	Upper
65	100		
85	16.1	11.5	21.3
45	20.3	14.0	26.0

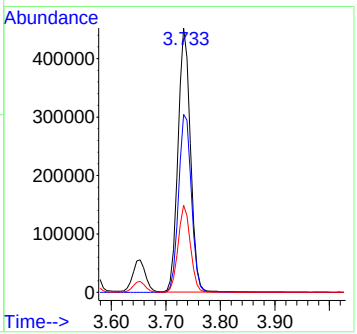


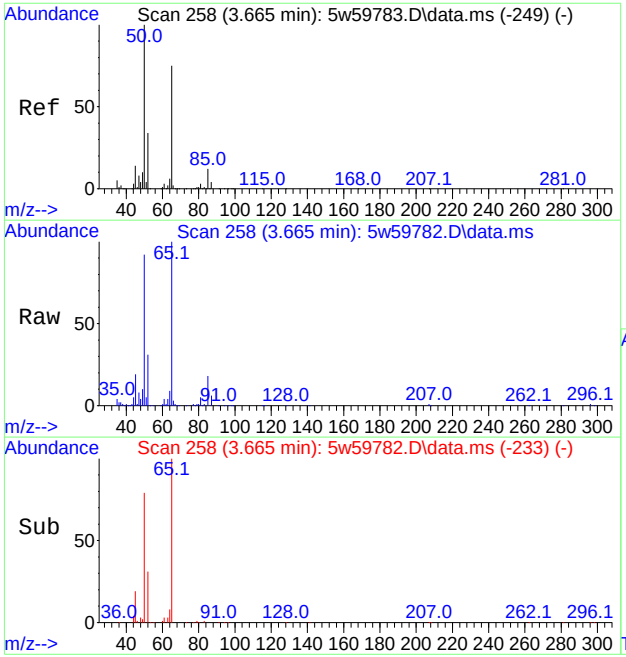


#9
FREON 114
Concen: 5.56 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 711067

Ion	Ratio	Lower	Upper
85	100		
135	69.7	40.5	100.5
87	32.8	3.0	63.0

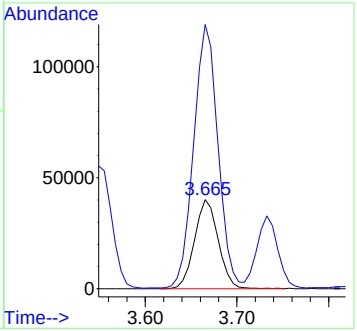


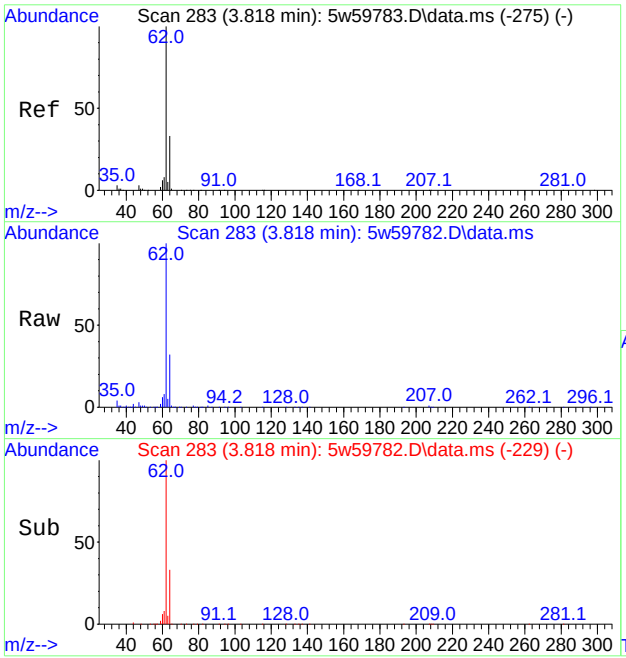


#10
CHLOROMETHANE
Concen: 4.72 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 72544

Ion	Ratio	Lower	Upper
52	100		
50	285.9	267.9	327.9

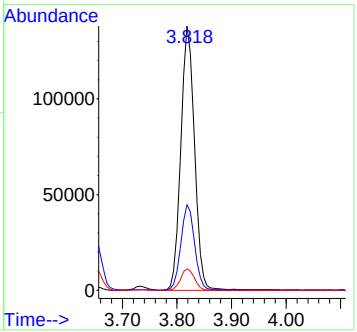


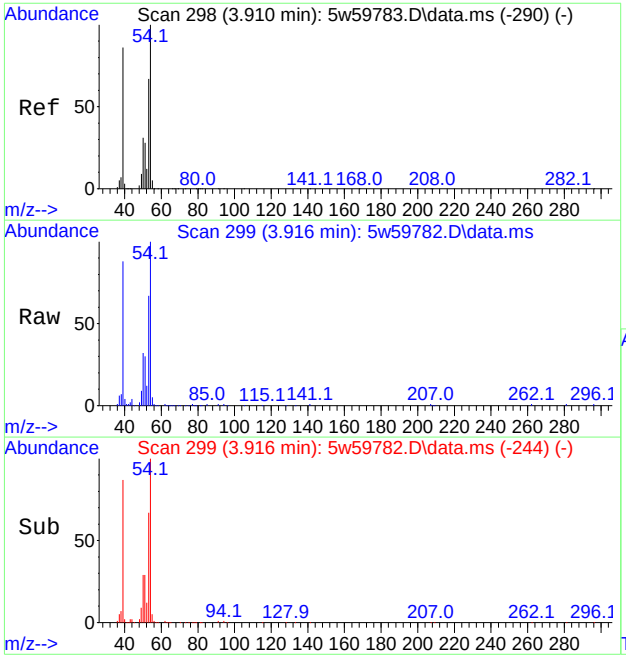


#11
VINYL CHLORIDE
Concen: 4.89 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 241017

Ion	Ratio	Lower	Upper
62	100		
64	33.5	3.6	63.6
61	8.2	0.0	38.2

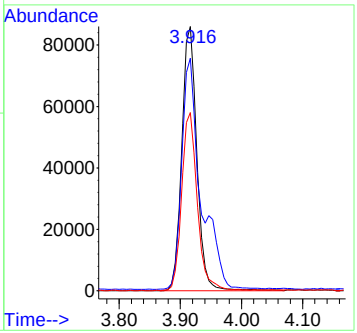


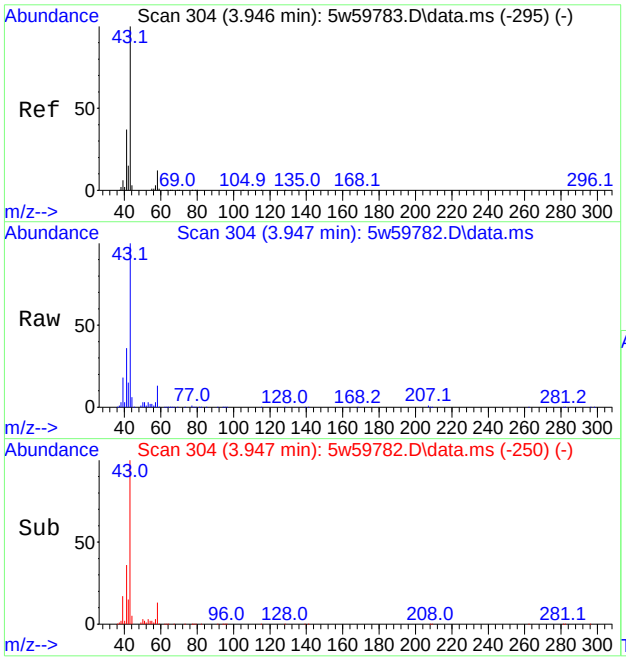


#12
1,3-BUTADIENE
Concen: 4.60 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 54 Resp: 147915

Ion	Ratio	Lower	Upper
54	100		
39	111.9	82.0	142.0
53	71.7	40.2	100.2

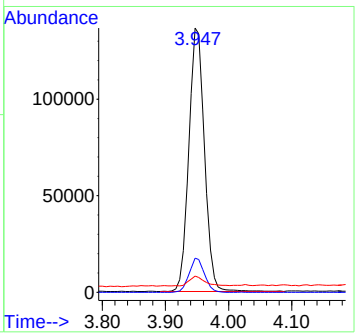


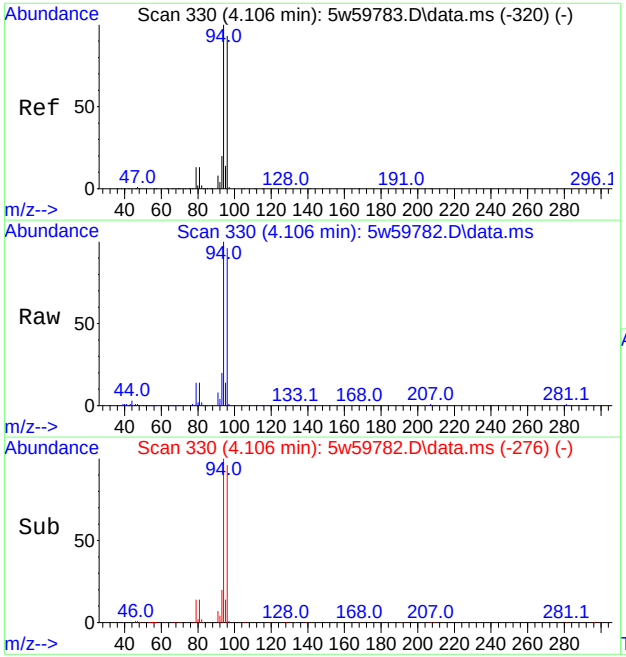


#13
n-BUTANE
Concen: 4.12 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 235159

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	6.5	0.0	34.9

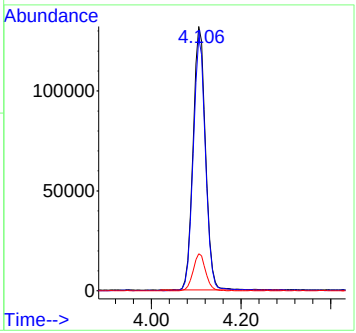


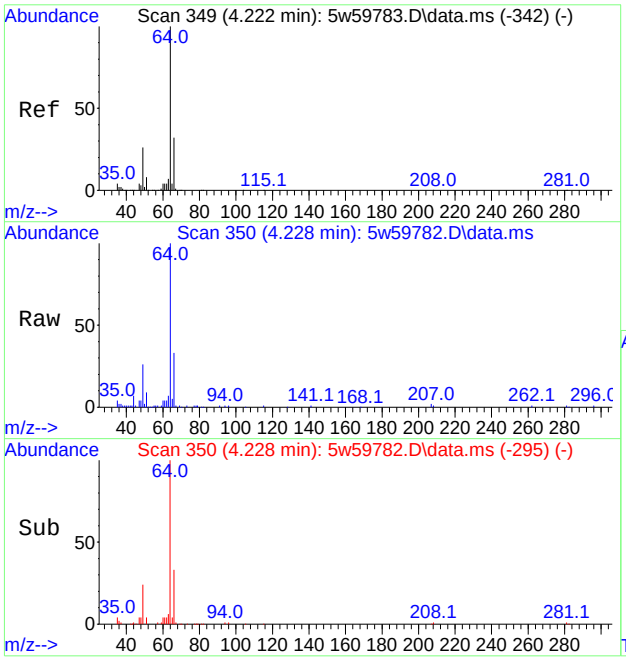


#14
BROMOMETHANE
Concen: 5.13 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 94 Resp: 254496

Ion	Ratio	Lower	Upper
94	100		
96	96.4	65.3	125.3
95	14.1	0.0	44.1

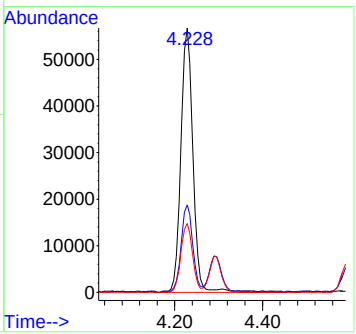


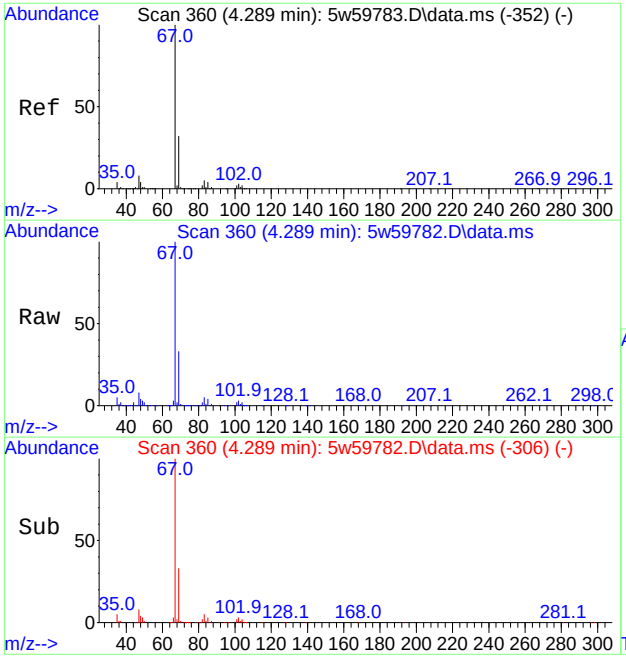


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 64 Resp: 109032

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

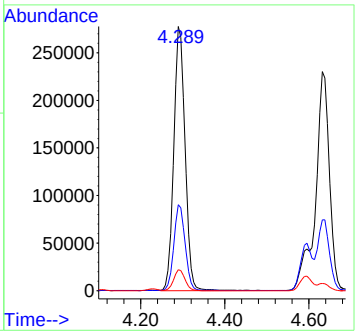


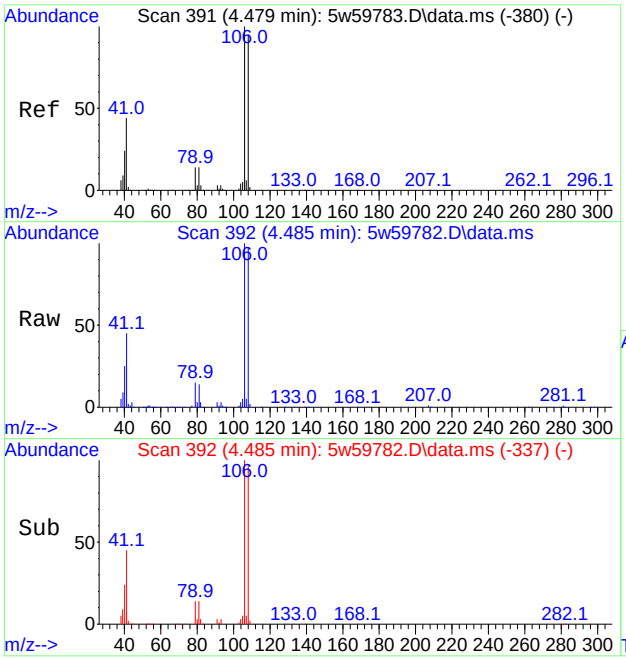


#16
DICHLOROFLUOROMETHANE
Concen: 4.56 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 519301

Ion	Ratio	Lower	Upper
67	100		
69	32.7	22.7	42.3
47	8.0	5.6	10.4

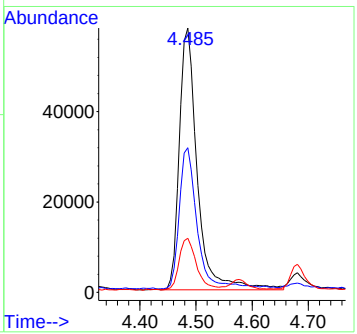


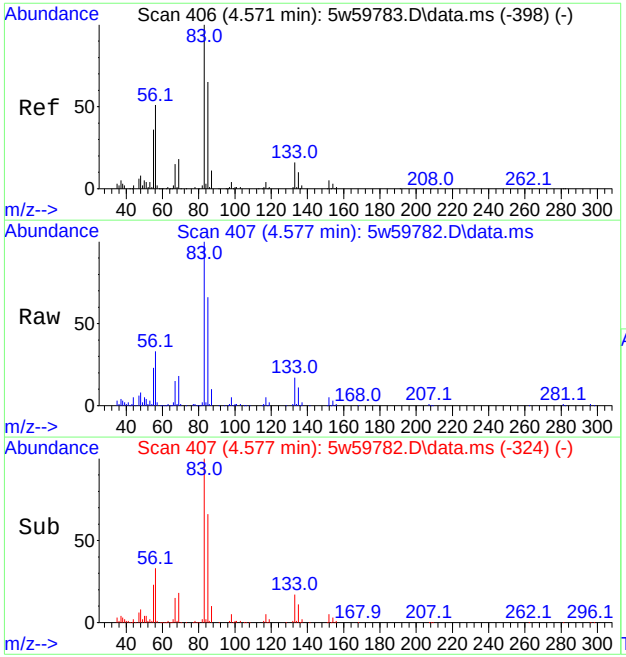


#17
ACETONITRILE
Concen: 3.95 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 129687

Ion	Ratio	Lower	Upper
41	100		
40	54.3	37.9	70.5
39	19.1	13.4	24.8

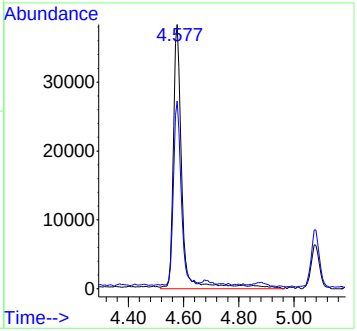


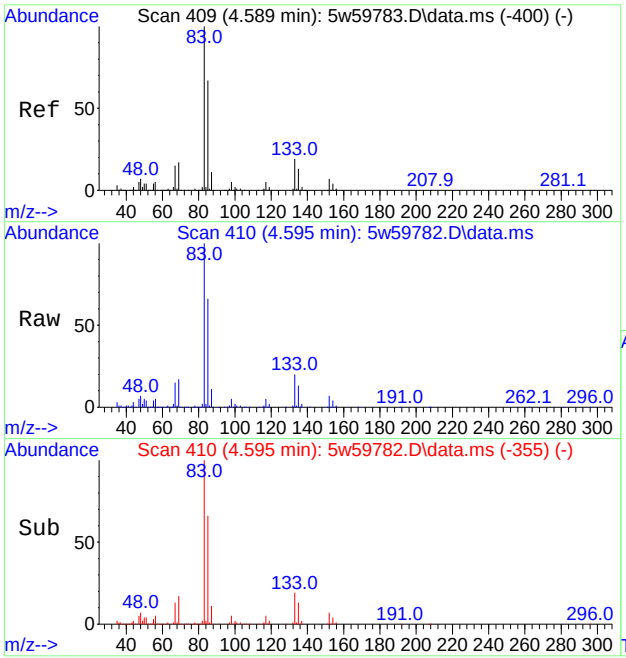


#18
ACROLEIN
Concen: 4.77 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 56 Resp: 83602

Ion	Ratio	Lower	Upper
56	100		
55	62.6	46.6	86.6

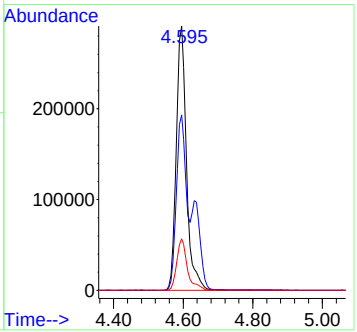


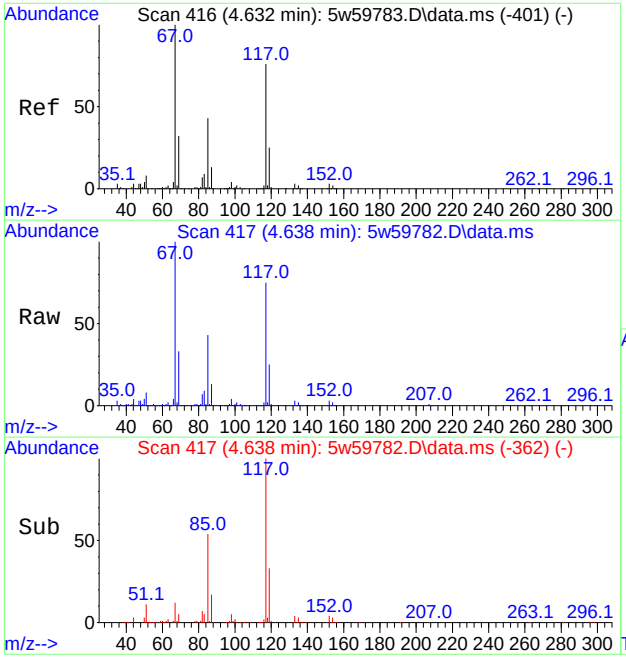


#19
FREON 123
Concen: 5.20 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 601219

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	20.5	0.0	50.7

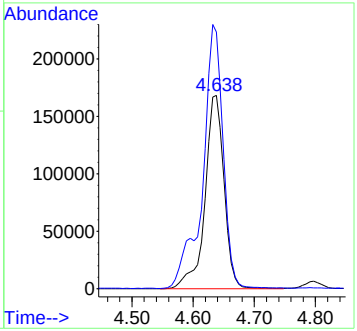


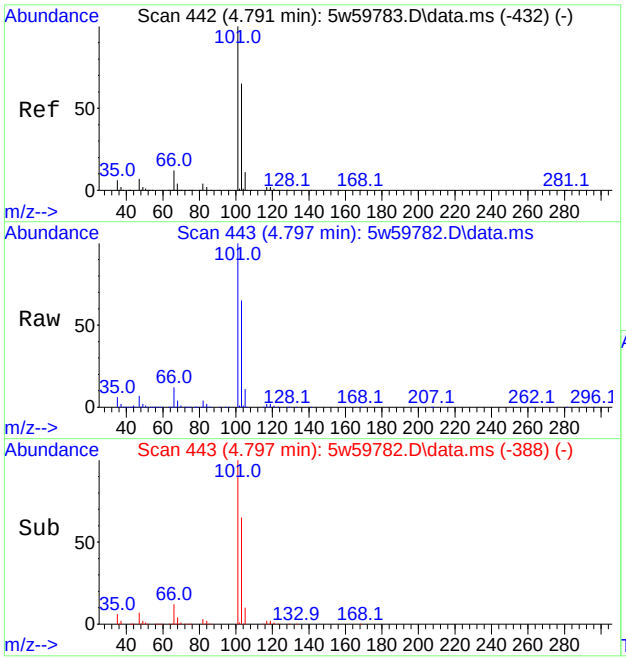


#20
FREON 123A
Concen: 5.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 365750

Ion	Ratio	Lower	Upper
117	100		
67	145.9	114.6	174.6

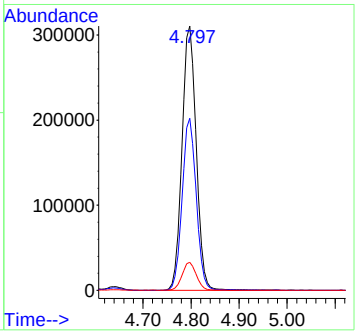


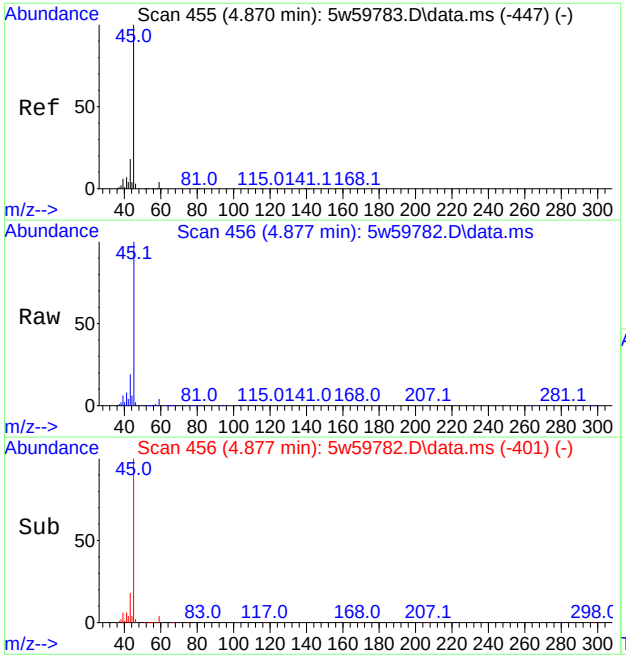


#21
TRICHLOROFLUOROMETHANE
Concen: 4.08 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:101 Resp: 638121

Ion	Ratio	Lower	Upper
101	100		
103	64.6	35.0	95.0
105	10.8	0.0	40.7

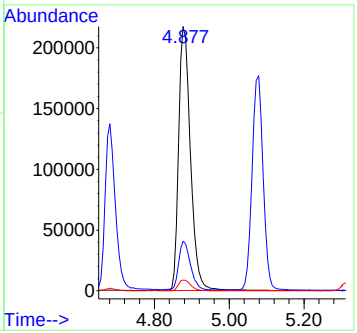


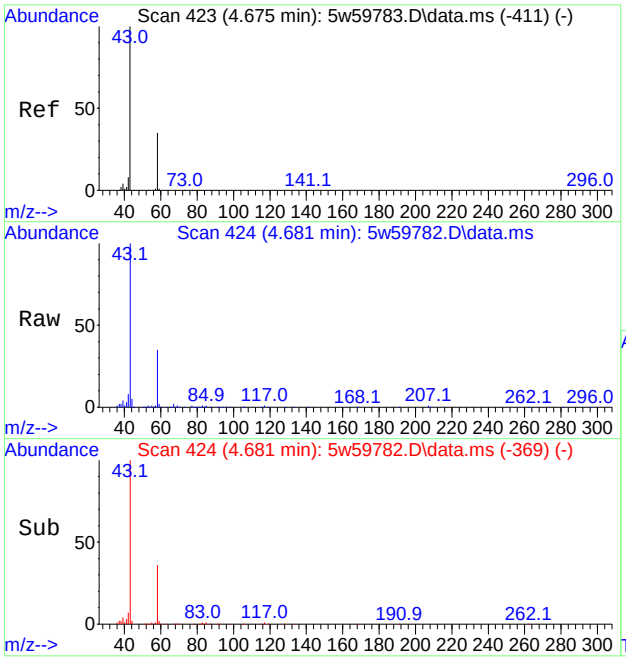


#22
ISOPROPYL ALCOHOL
Concen: 4.35 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 477900

Ion	Ratio	Lower	Upper
45	100		
43	18.8	0.0	47.8
59	4.1	0.0	34.1

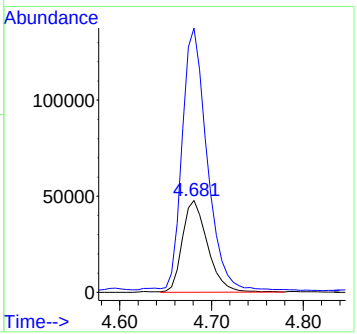


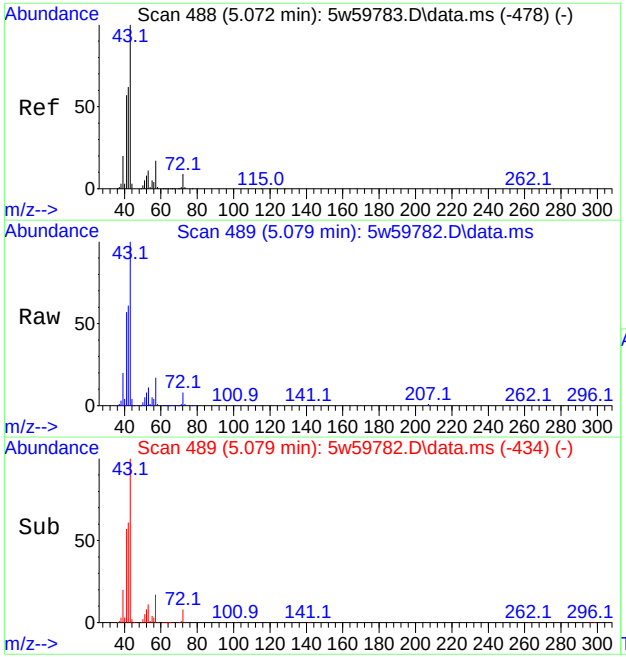


#23
ACETONE
Concen: 4.50 PPBV
RT: 4.681 min Scan# 424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 90961

Ion	Ratio	Lower	Upper
58	100		
43	290.9	252.3	312.3

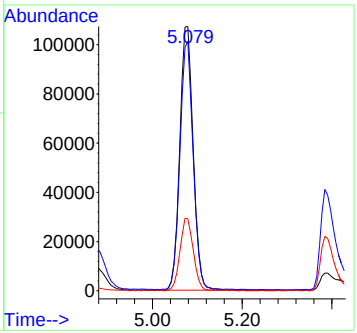


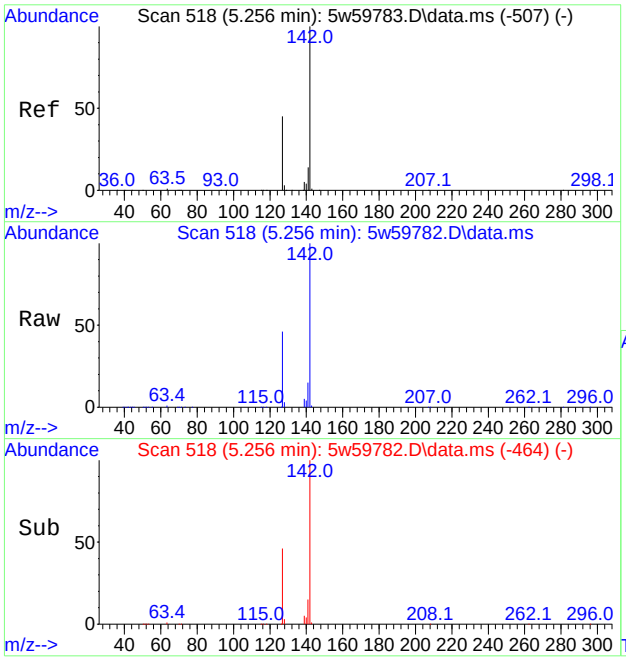


#24
PENTANE
Concen: 3.74 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 42 Resp: 223509

Ion	Ratio	Lower	Upper
42	100		
41	93.1	62.3	122.3
57	27.7	0.0	57.7

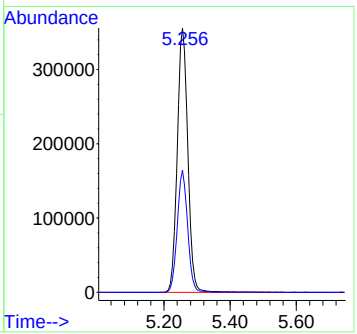


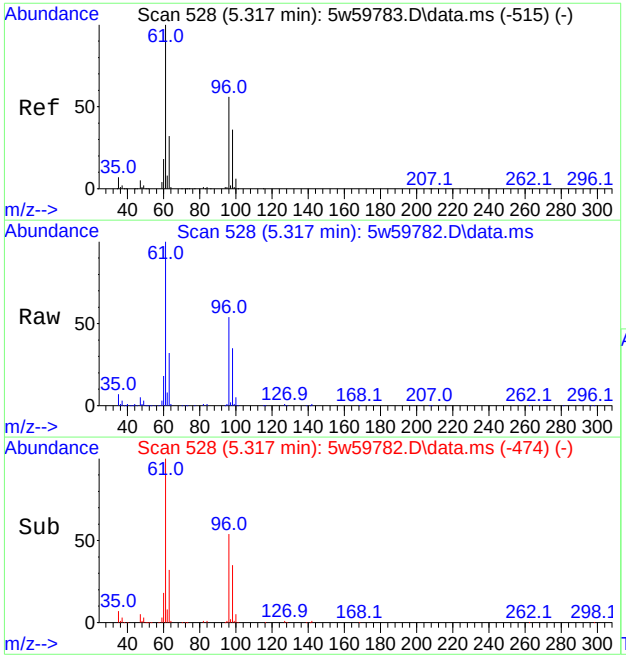


#25
IODOMETHANE
Concen: 5.20 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:142 Resp: 791555

Ion	Ratio	Lower	Upper
142	100		
127	45.5	16.0	76.0

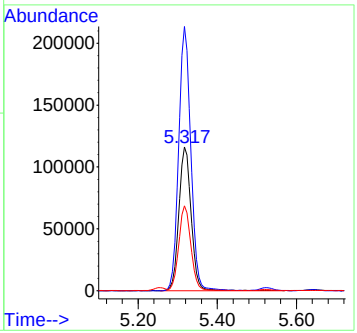


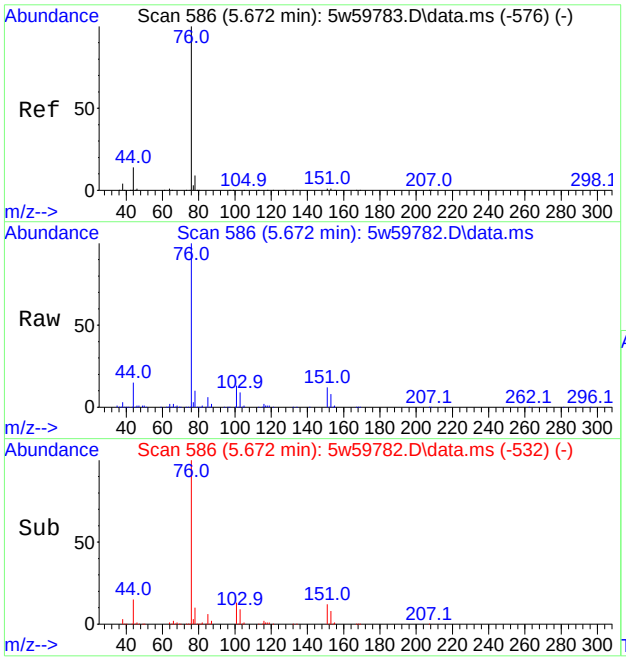


#26
1,1-DICHLOROETHYLENE
Concen: 4.66 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 251542

Ion	Ratio	Lower	Upper
96	100		
61	180.6	148.5	208.5
63	57.9	27.4	87.4

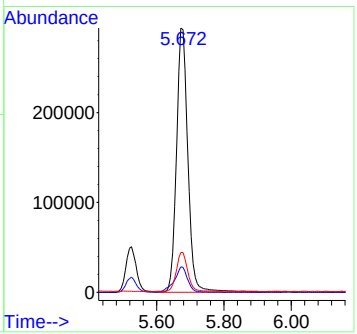


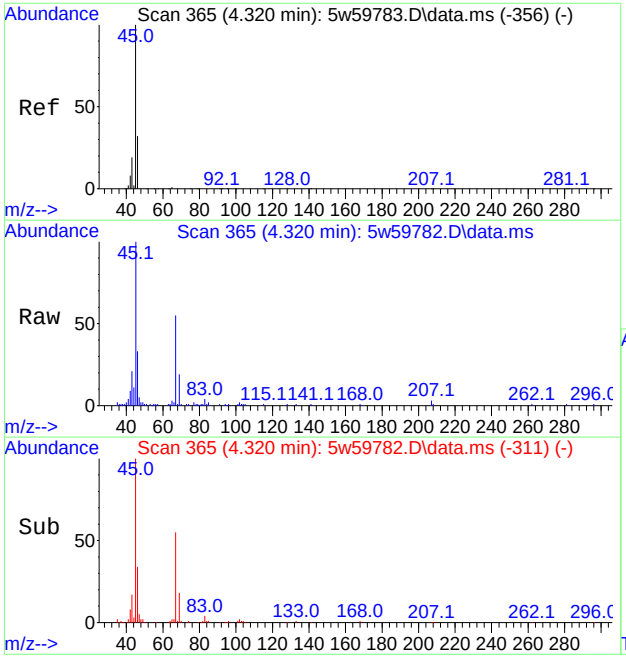


#27
CARBON DISULFIDE
Concen: 4.87 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 690855

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

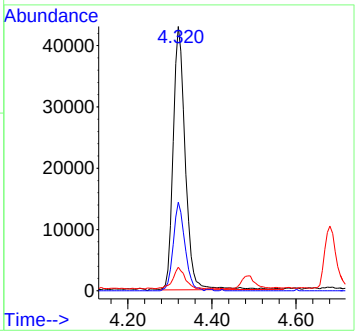


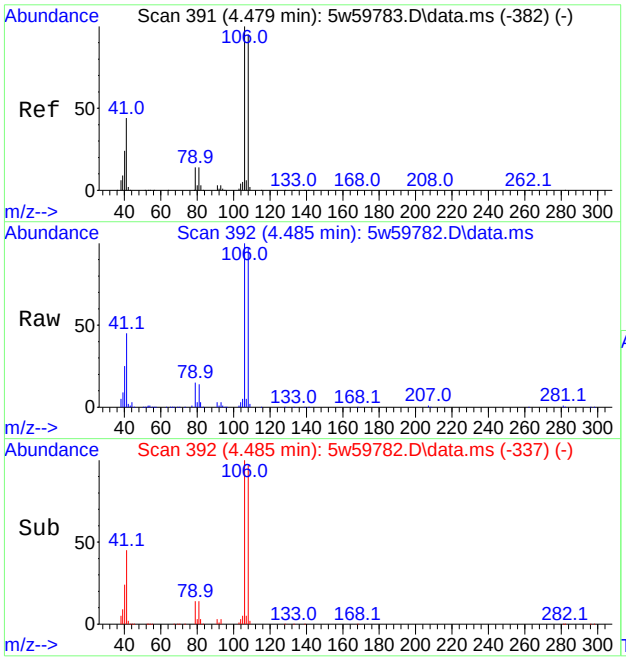


#28
ETHANOL
Concen: 4.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 86798

Ion	Ratio	Lower	Upper
45	100		
46	32.2	2.0	62.0
42	8.5	0.0	38.5

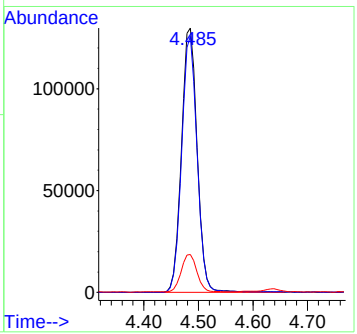


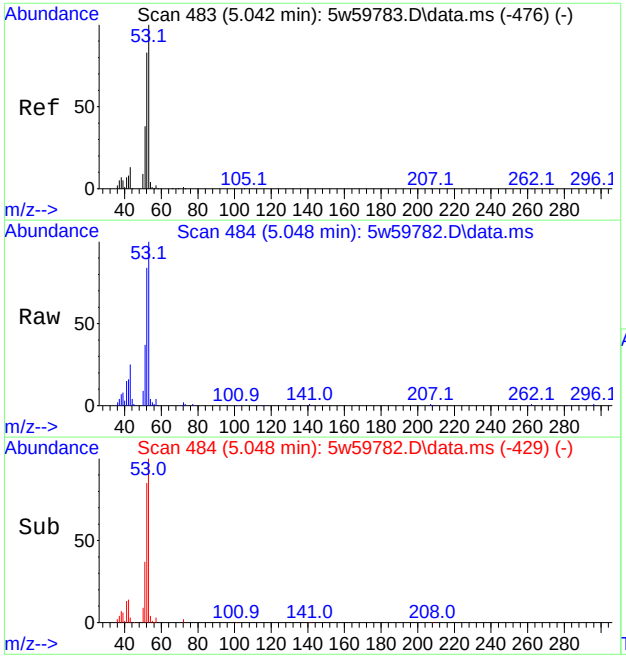


#29
BROMOETHENE
Concen: 5.39 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 258283

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	14.5	0.0	43.9

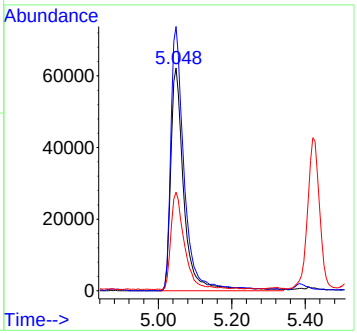


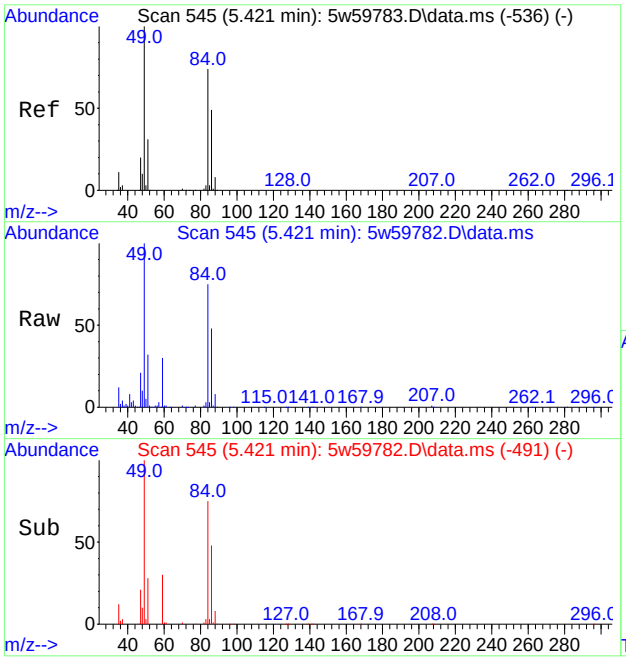


#30
ACRYLONITRILE
Concen: 4.59 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 155799

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.6	32.3	60.1

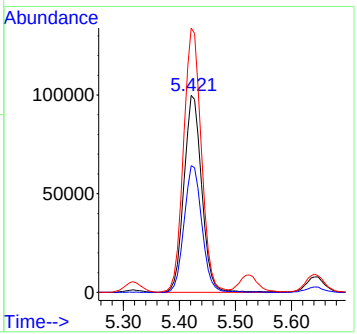


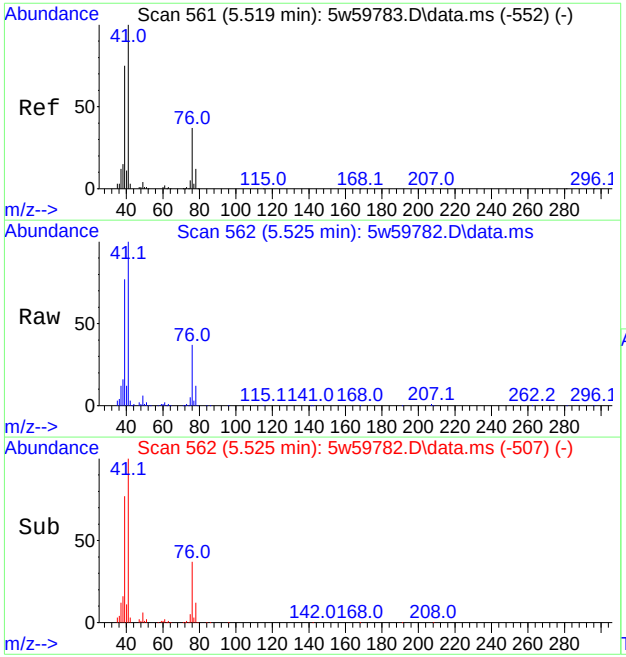


#31
METHYLENE CHLORIDE
Concen: 4.55 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 220204

Ion	Ratio	Lower	Upper
84	100		
86	64.5	35.2	95.2
49	134.2	105.3	165.3

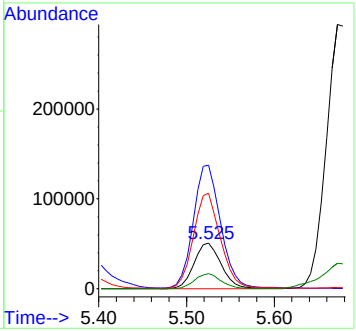


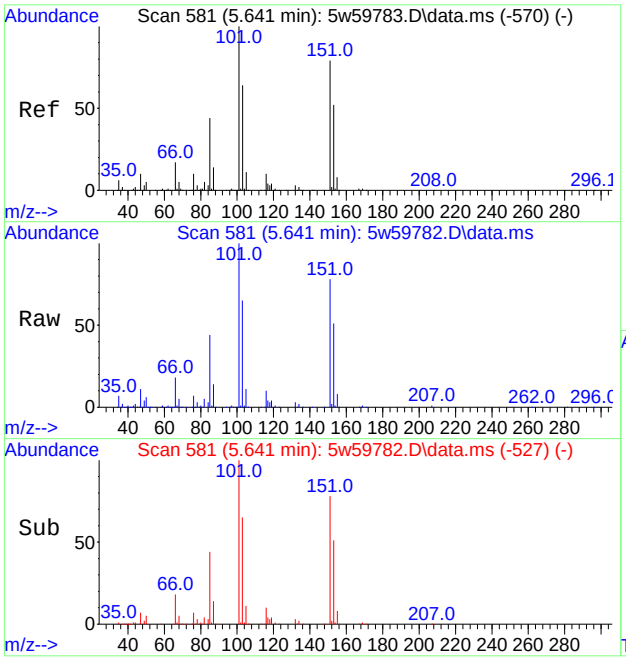


#32
3-CHLOROPROPENE
Concen: 4.99 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 110268

Ion	Ratio	Lower	Upper
76	100		
41	271.1	240.8	300.8
39	207.1	173.6	233.6
78	32.9	2.8	62.8

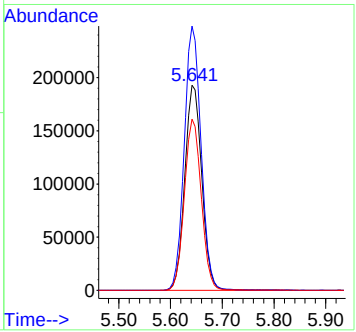


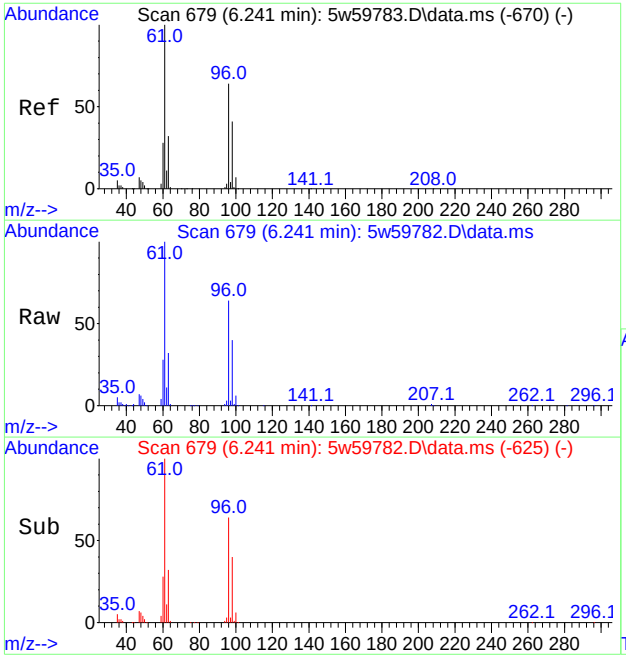


#33
FREON 113
Concen: 4.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:151 Resp: 441351

Ion	Ratio	Lower	Upper
151	100		
101	127.4	97.5	157.5
103	83.0	52.5	112.5

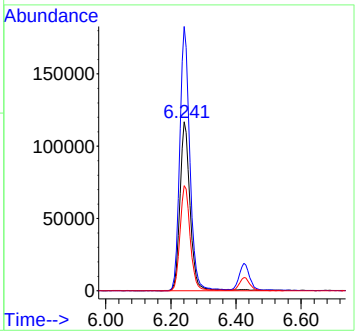


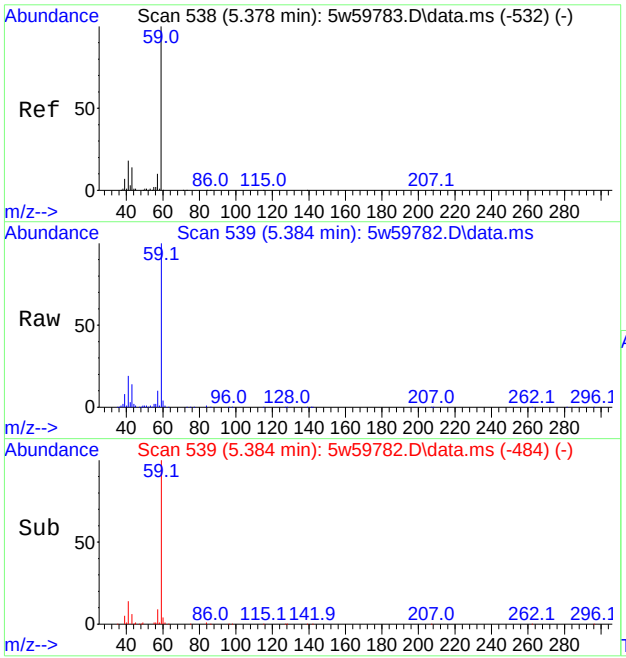


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 4.68 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 257488

Ion	Ratio	Lower	Upper
96	100		
61	152.8	126.4	186.4
98	62.3	34.1	94.1

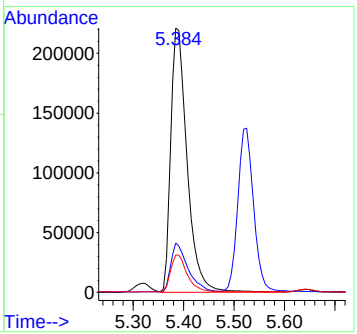


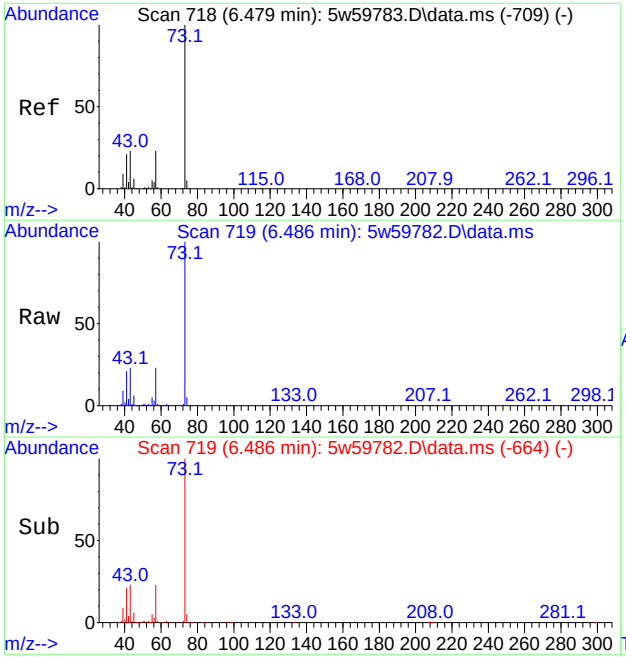


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.44 PPBV
RT: 5.384 min Scan# 539
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 498869

Ion	Ratio	Lower	Upper
59	100		
41	19.5	0.0	49.3
43	14.1	0.0	44.1

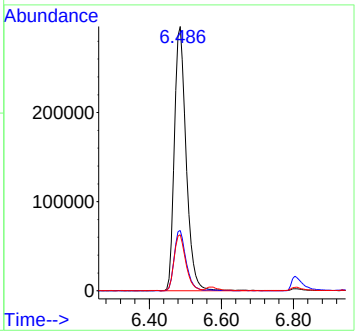


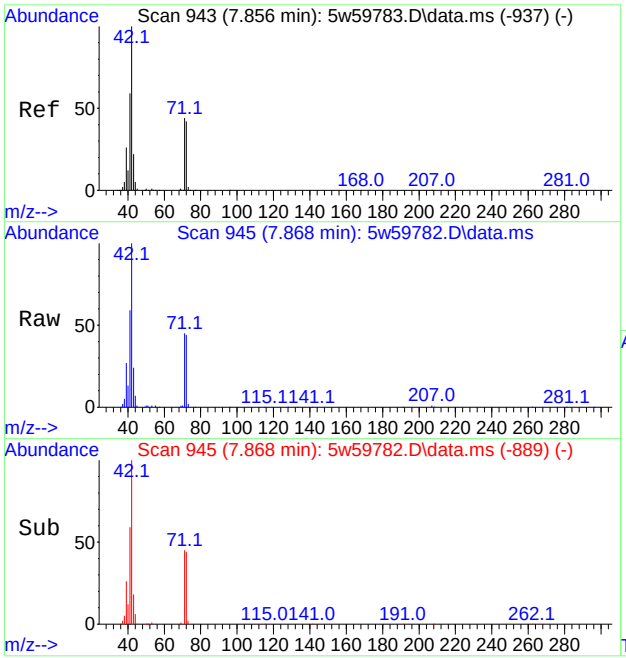


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.04 PPBV
RT: 6.486 min Scan# 719
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 73 Resp: 676684

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.9	0.0	50.6

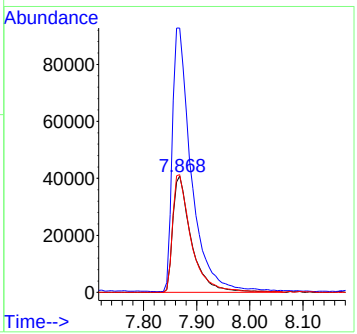


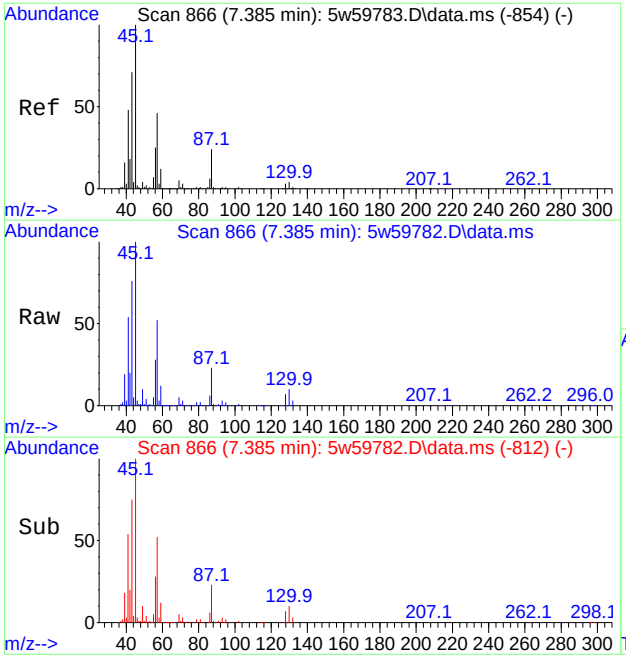


#37
TETRAHYDROFURAN
Concen: 5.53 PPBV
RT: 7.868 min Scan# 945
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 99619

Ion	Ratio	Lower	Upper
72	100		
42	231.9	202.4	262.4
71	101.4	71.1	131.1

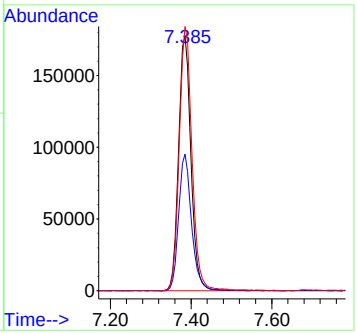


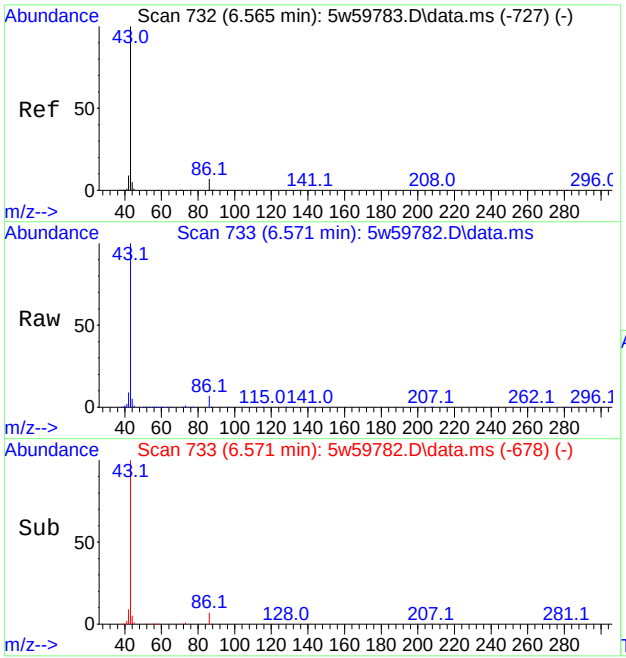


#38
HEXANE
Concen: 5.02 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 379941

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	106.7	74.7	134.7

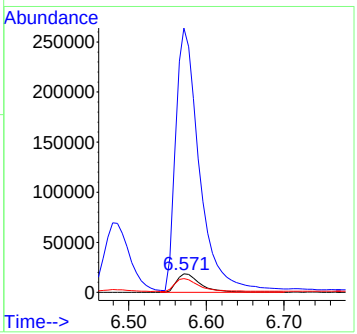


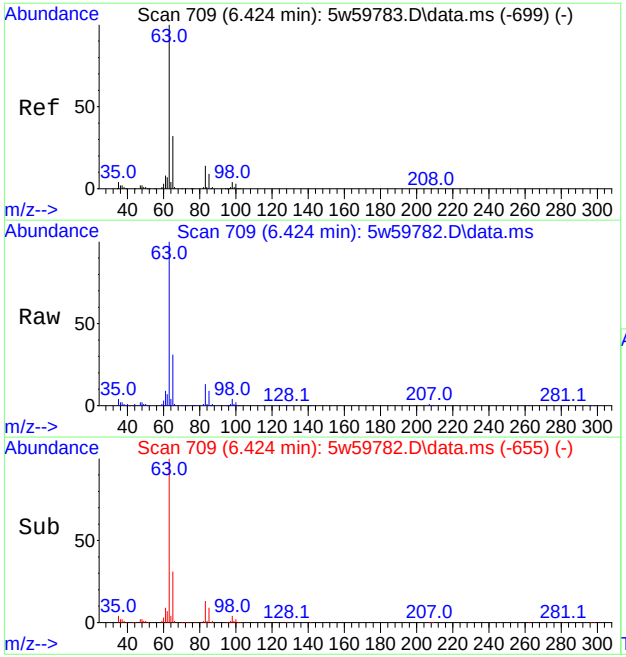


#39
VINYL ACETATE
Concen: 4.63 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 86 Resp: 40455

Ion	Ratio	Lower	Upper
86	100		
43	1388.3	1379.7	1439.7
44	68.5	36.9	96.9

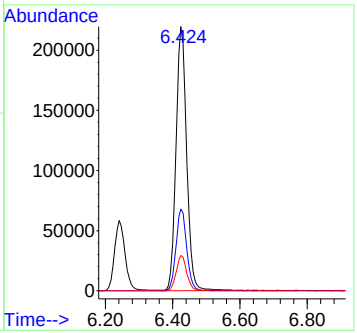


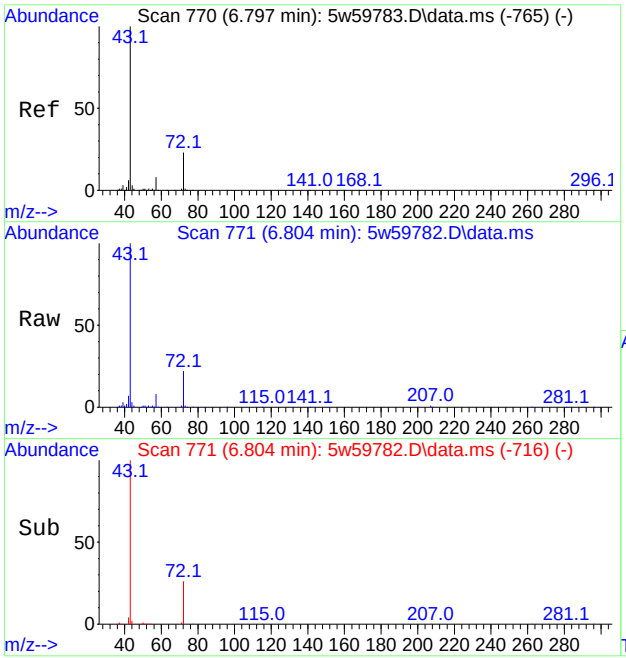


#40
1,1-DICHLOROETHANE
Concen: 4.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 482232

Ion	Ratio	Lower	Upper
63	100		
65	31.3	1.7	61.7
83	13.2	0.0	43.5

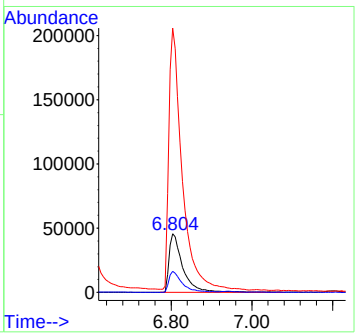


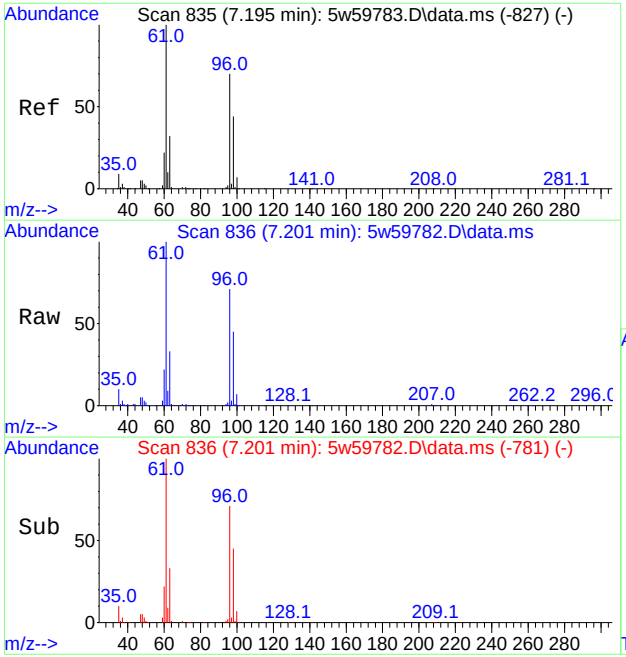


#41
METHYL ETHYL KETONE
Concen: 5.80 PPBV
RT: 6.804 min Scan# 771
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 108805

Ion	Ratio	Lower	Upper
72	100		
57	35.8	4.8	64.8
43	450.4	415.9	475.9

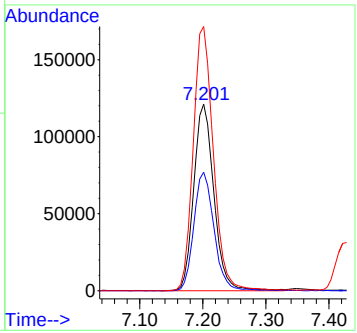


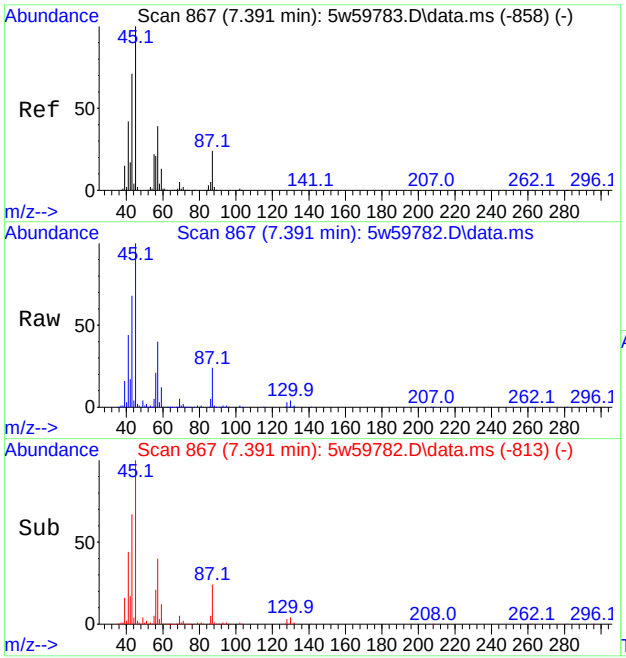


#42
cis-1,2-DICHLOROETHYLENE
Concen: 4.74 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 269410

Ion	Ratio	Lower	Upper
96	100		
98	63.6	34.0	94.0
61	142.1	111.5	171.5

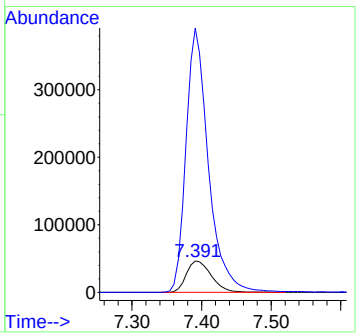


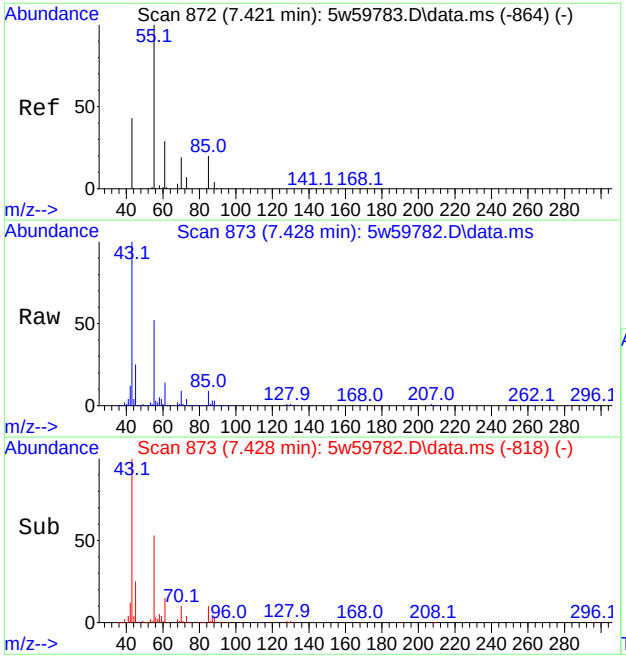


#43
DIISOPROPYL ETHER
Concen: 5.65 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 116383

Ion	Ratio	Lower	Upper
59	100		
45	760.3	720.9	780.9

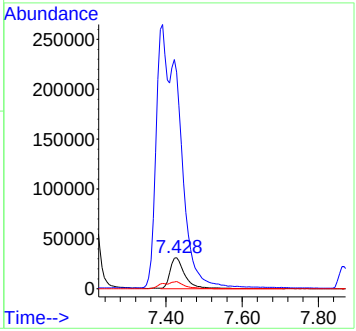


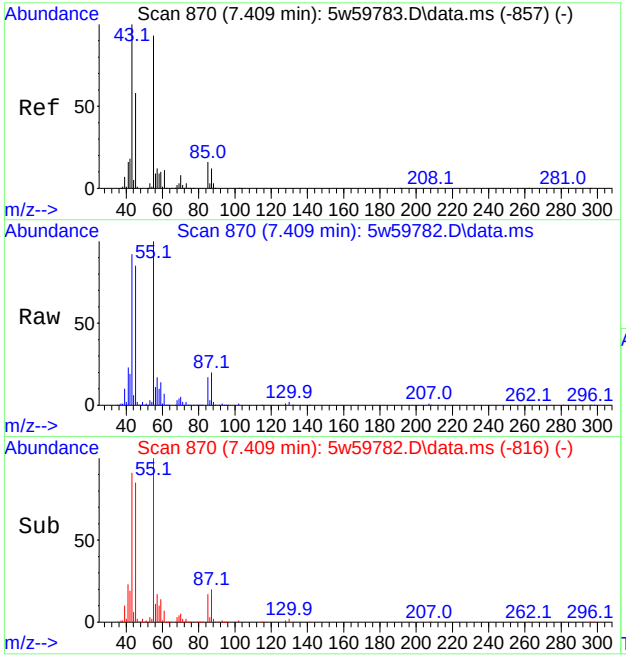


#44
ETHYL ACETATE
Concen: 5.60 PPBV m
RT: 7.428 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 61 Resp: 87258

Ion	Ratio	Lower	Upper
61	100		
43	636.4	560.5	620.5#
88	32.9	4.5	64.5

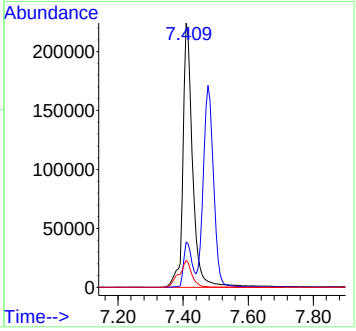


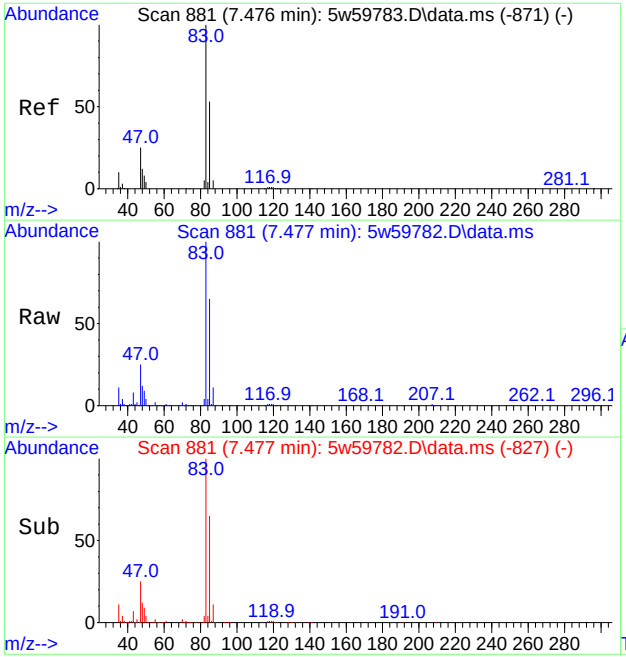


#45
METHYL ACRYLATE
Concen: 5.35 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 471994

Ion	Ratio	Lower	Upper
55	100		
85	15.0	10.9	20.3
58	13.3	9.4	17.6

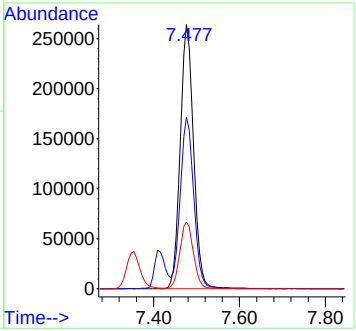


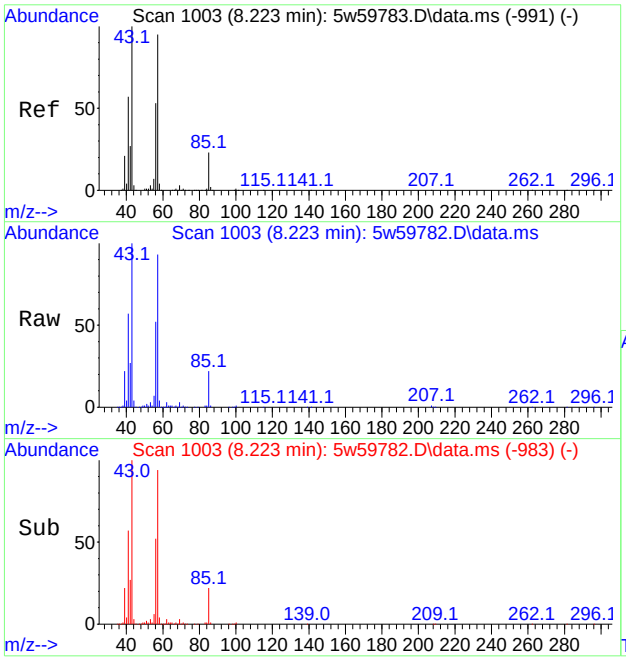


#46
CHLOROFORM
Concen: 4.95 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 570969

Ion	Ratio	Lower	Upper
83	100		
85	66.4	35.6	95.6
47	25.9	0.0	55.2

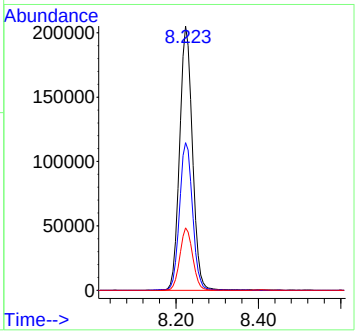


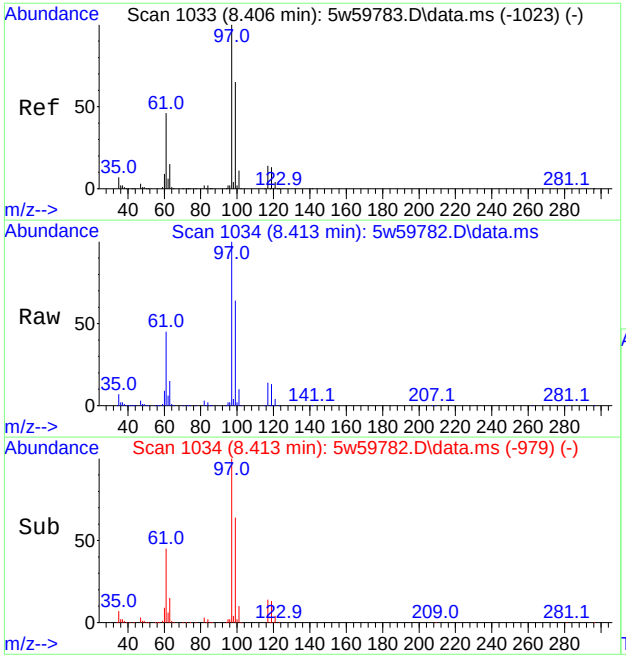


#47
2,4-DIMETHYLPENTANE
Concen: 5.08 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 444023

Ion	Ratio	Lower	Upper
57	100		
56	57.0	26.5	86.5
85	23.7	0.0	53.8

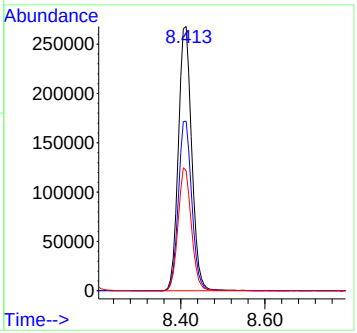


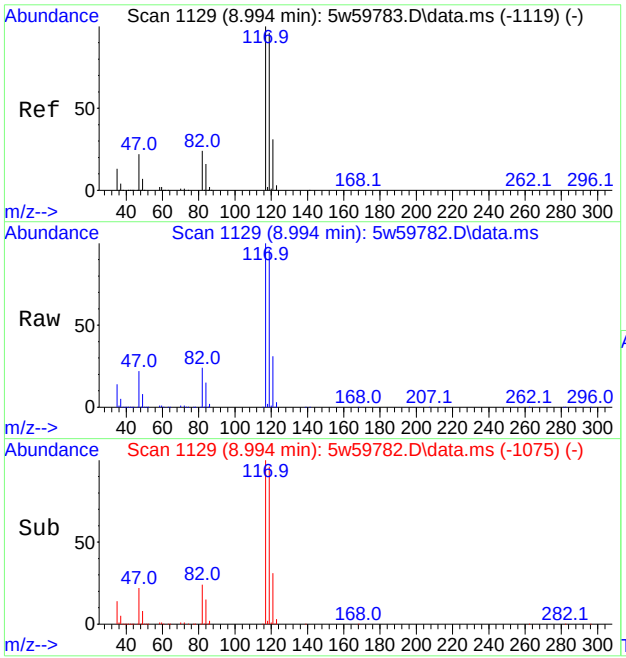


#48
1,1,1-TRICHLOROETHANE
Concen: 4.75 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 97 Resp: 592452

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.8	94.8
61	46.2	15.8	75.8

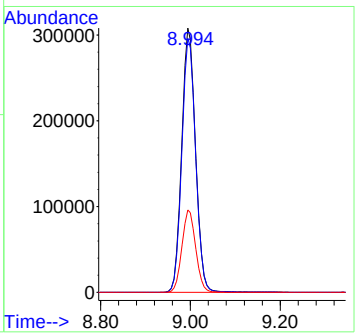


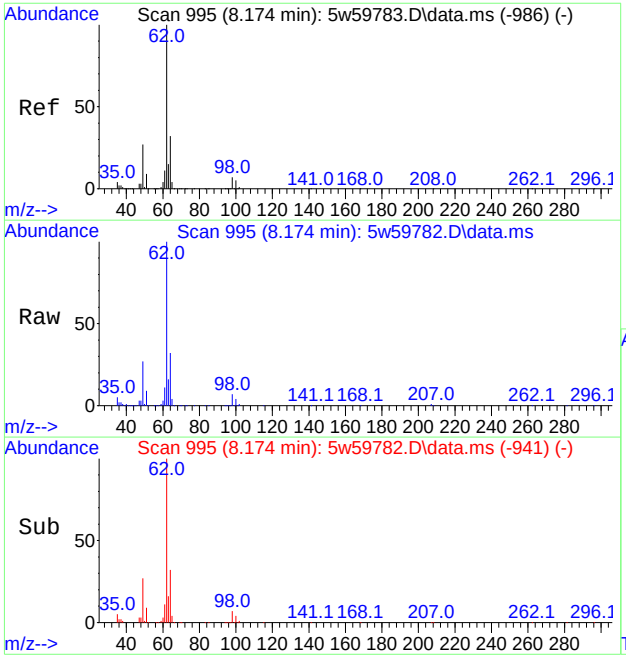


#49
CARBON TETRACHLORIDE
Concen: 4.82 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 658939

Ion	Ratio	Lower	Upper
117	100		
119	96.4	66.9	126.9
121	31.1	1.3	61.3

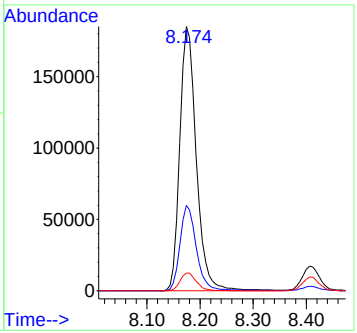


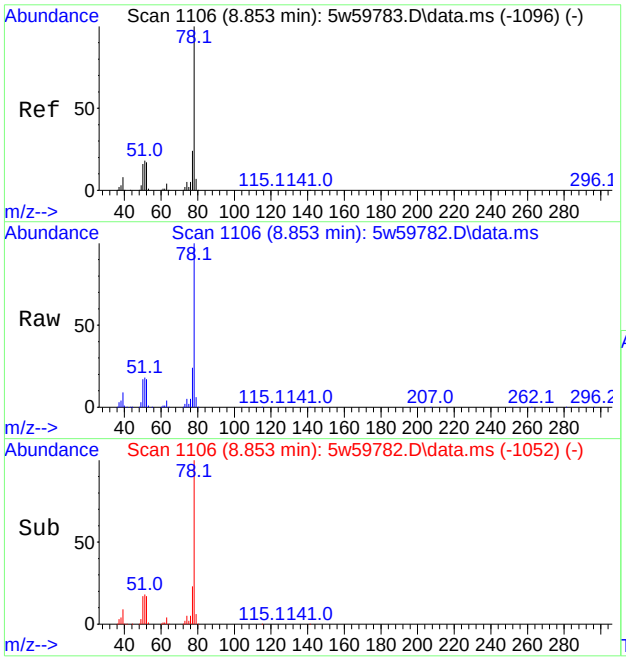


#50
1,2-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 401494

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.7	0.0	36.9

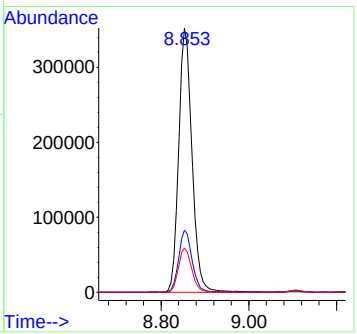


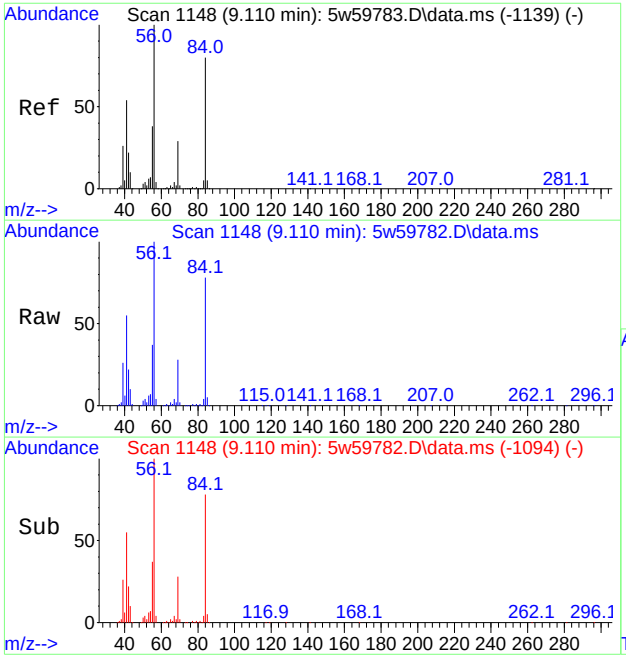


#52
BENZENE
Concen: 5.39 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 78 Resp: 741517

Ion	Ratio	Lower	Upper
78	100		
77	23.5	0.0	53.8
52	16.9	0.0	46.9

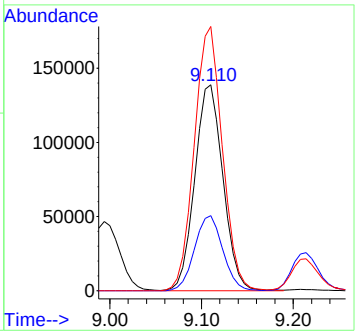


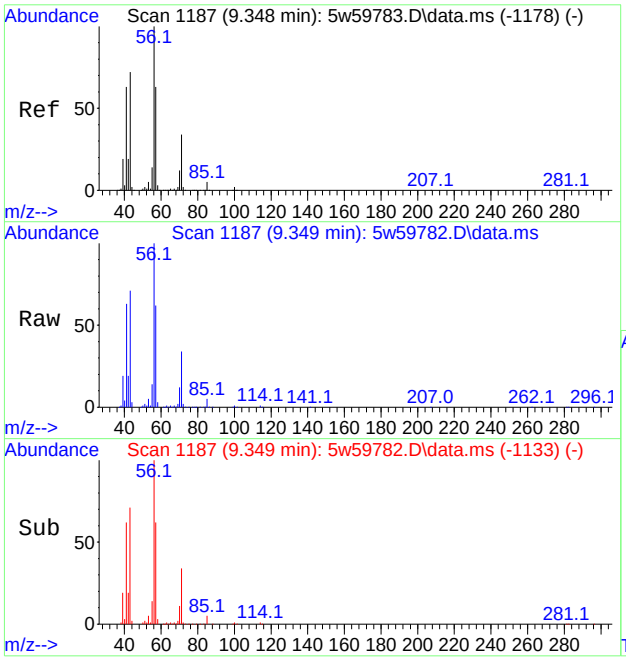


#53
CYCLOHEXANE
Concen: 5.48 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 297316

Ion	Ratio	Lower	Upper
84	100		
69	36.6	6.9	66.9
56	127.4	98.2	158.2

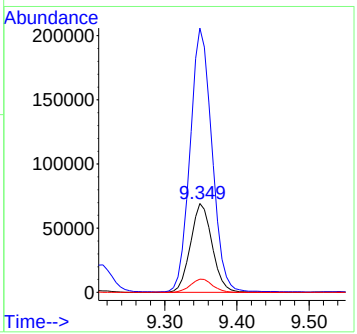


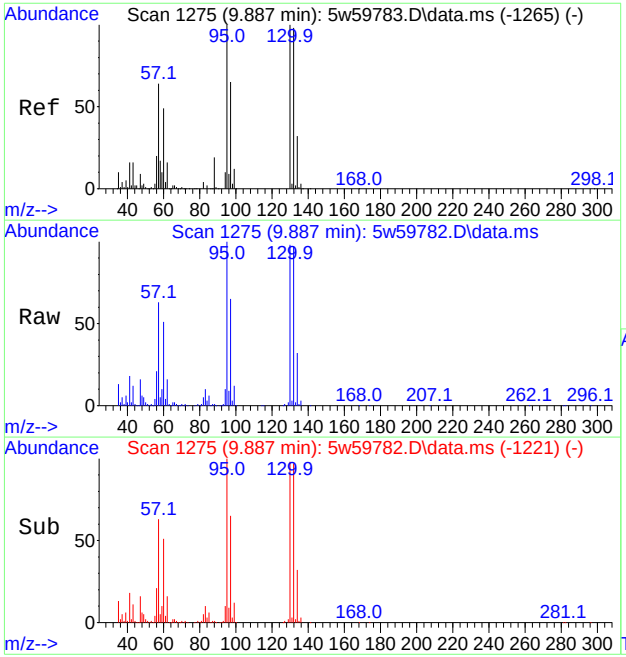


#54
2,3-DIMETHYLPENTANE
Concen: 5.25 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 71 Resp: 144492

Ion	Ratio	Lower	Upper
71	100		
56	300.3	264.6	324.6
85	15.2	0.0	45.3

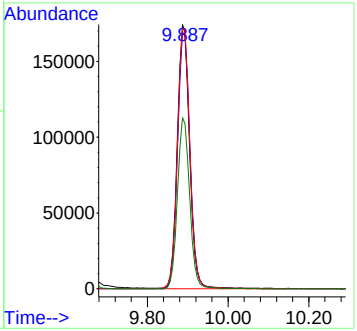


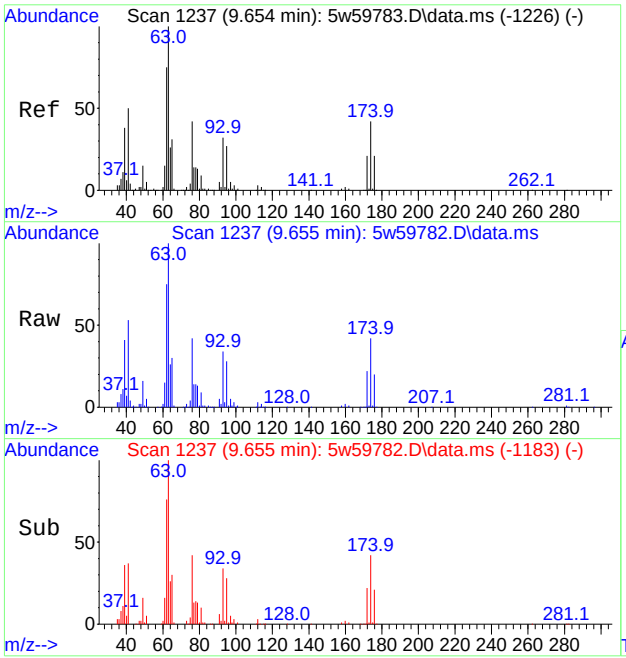


#55
TRICHLOROETHYLENE
Concen: 5.01 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 95 Resp: 369372

Ion	Ratio	Lower	Upper
95	100		
132	97.7	69.0	129.0
130	99.7	70.6	130.6
97	63.9	34.6	94.6

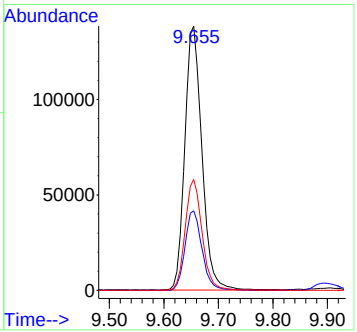


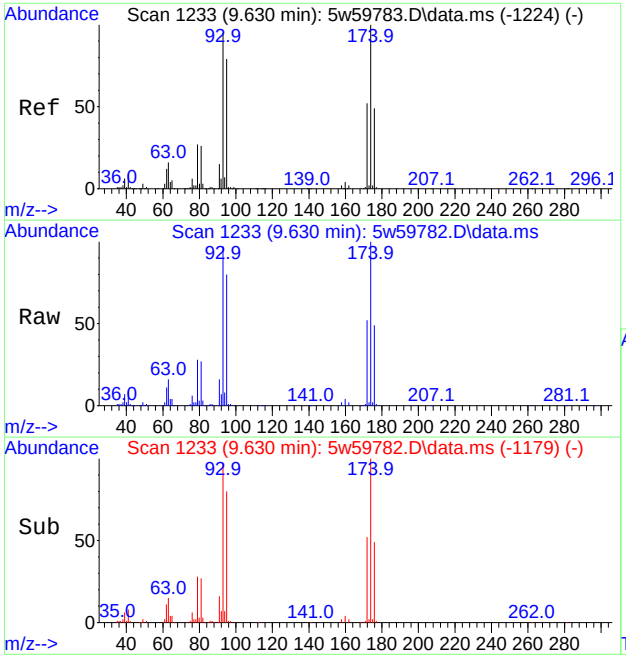


#56
1,2-DICHLOROPROPANE
Concen: 5.12 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 300591

Ion	Ratio	Lower	Upper
63	100		
65	30.0	0.5	60.5
76	41.6	11.5	71.5

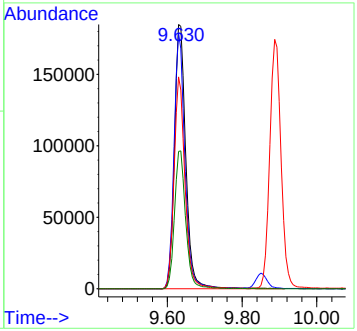


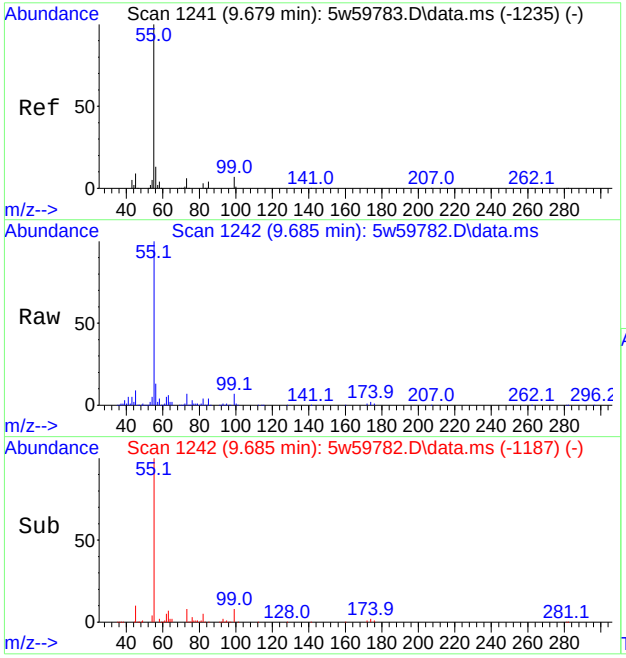


#57
DIBROMOMETHANE
Concen: 4.83 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:174 Resp: 391164

Ion	Ratio	Lower	Upper
174	100		
93	94.0	65.0	120.6
95	78.2	54.5	101.1
172	51.8	36.3	67.5

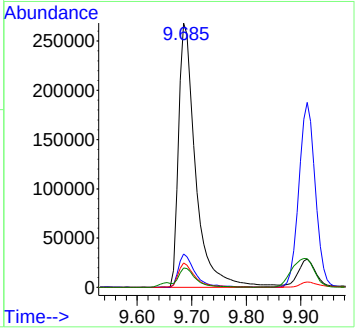


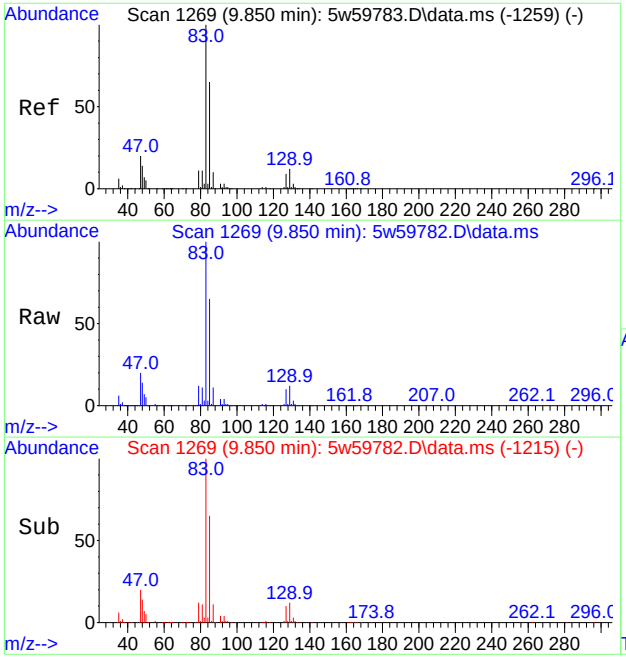


#58
ETHYL ACRYLATE
Concen: 5.68 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 582502

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.5	6.6	12.2
99	8.8	6.4	12.0

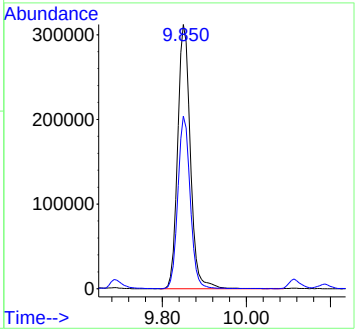


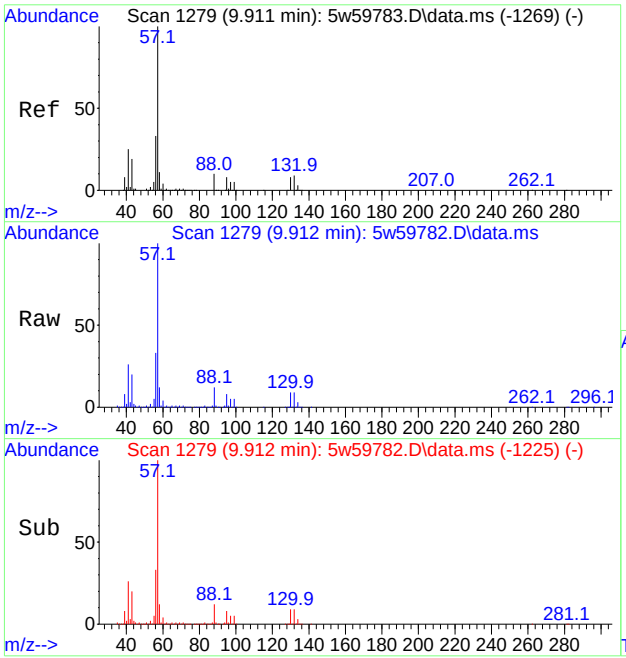


#59
BROMODICHLOROMETHANE
Concen: 5.05 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 653402

Ion	Ratio	Lower	Upper
83	100		
85	63.8	33.4	93.4

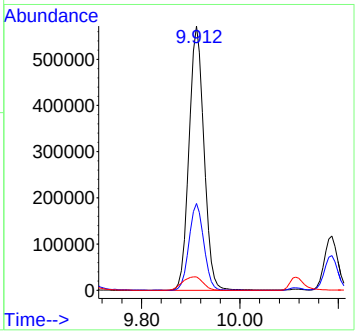


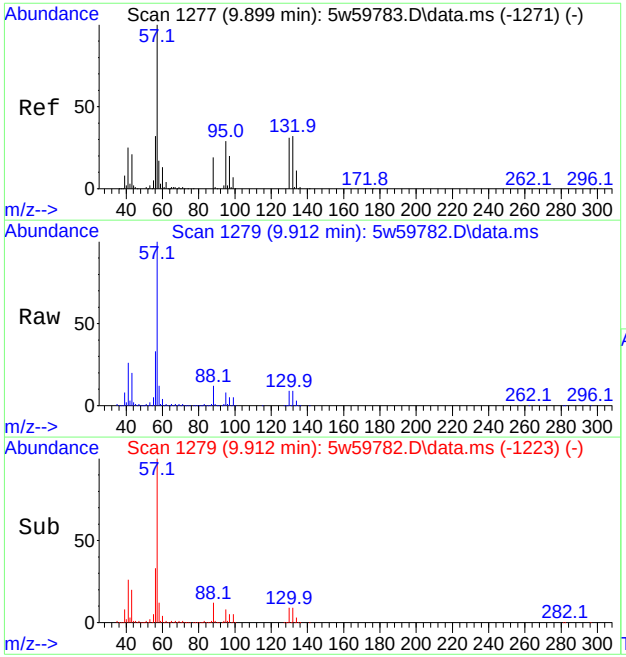


#60
2,2,4-TRIMETHYLPENTANE
Concen: 5.26 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 1206122

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.2	0.0	37.3

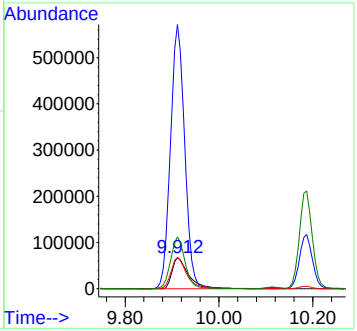


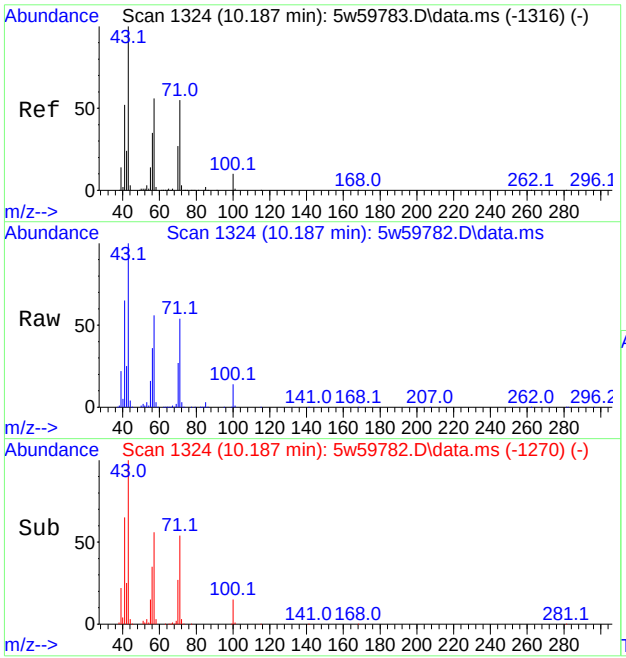


#61
1,4-DIOXANE
Concen: 5.89 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 88 Resp: 168473

Ion	Ratio	Lower	Upper
88	100		
57	845.3	494.2	554.2#
58	100.5	58.9	118.9
43	165.6	78.3	138.3#

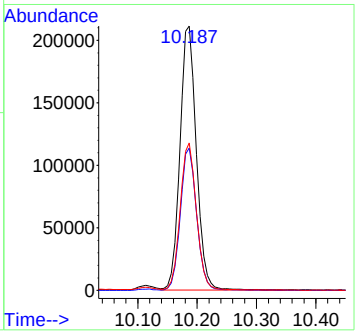


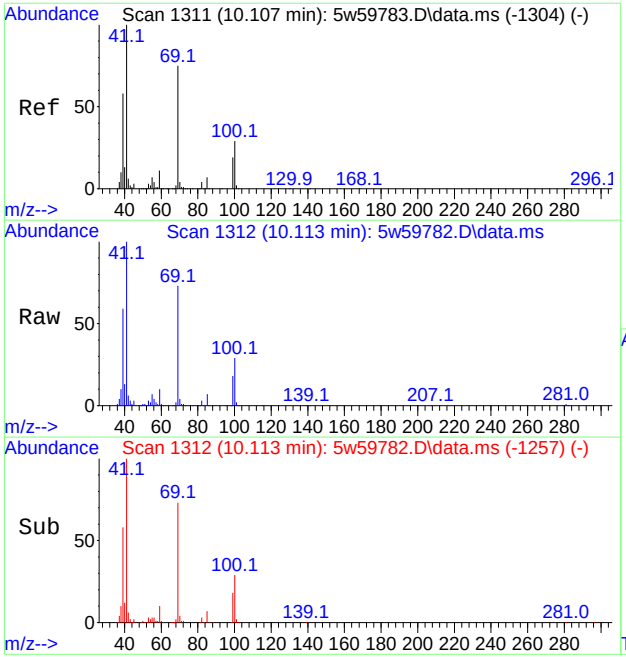


#62
HEPTANE
Concen: 4.93 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 406924

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.4	26.2	86.2

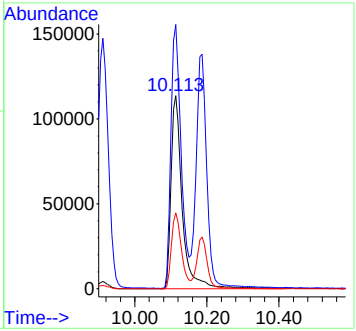


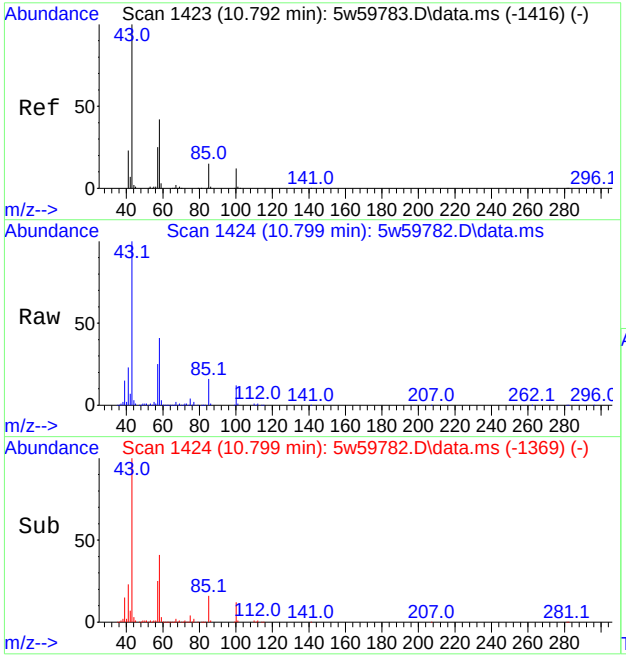


#63
METHYL METHACRYLATE
Concen: 5.84 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 247000

Ion	Ratio	Lower	Upper
69	100		
41	122.1	95.3	155.3
100	35.3	6.3	66.3

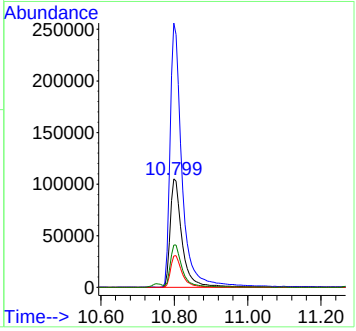


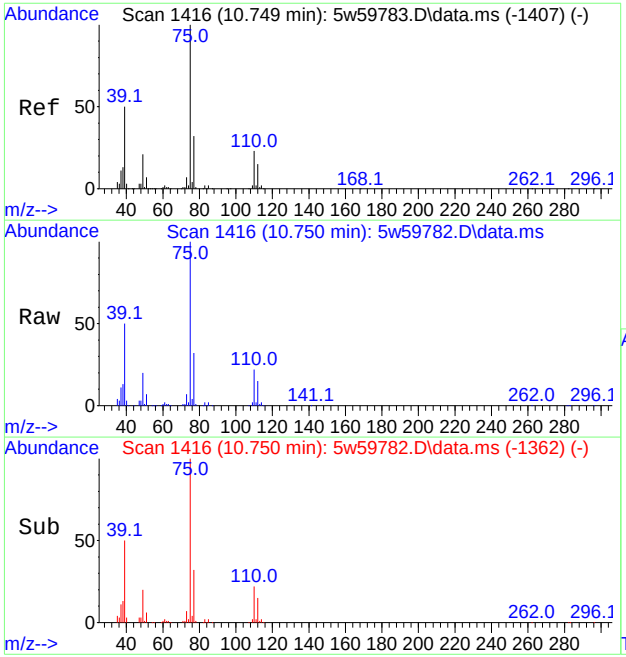


#64
METHYL ISOBUTYL KETONE
Concen: 5.60 PPBV
RT: 10.799 min Scan# 1424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 240795

Ion	Ratio	Lower	Upper
58	100		
43	242.6	209.2	269.2
100	29.0	0.0	58.8
85	39.9	9.4	69.4

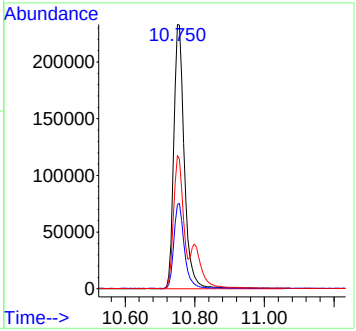


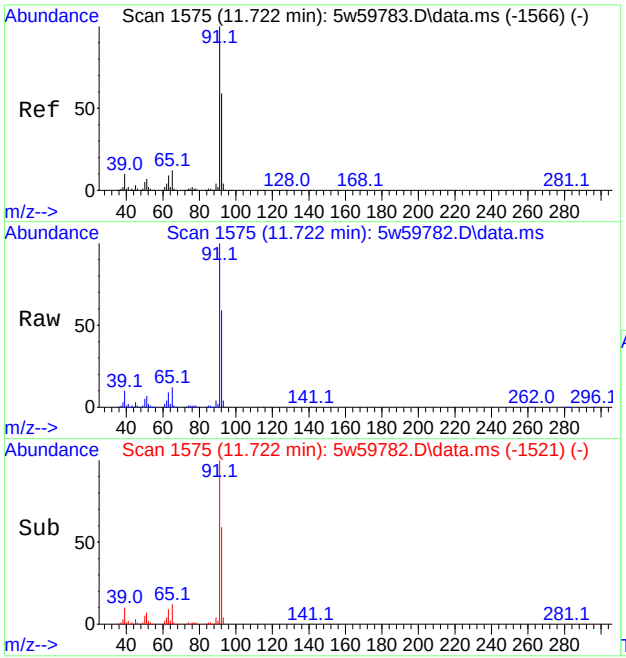


#65
cis-1,3-DICHLOROPROPENE
Concen: 5.47 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 494703

Ion	Ratio	Lower	Upper
75	100		
77	31.7	2.2	62.2
39	48.4	34.3	94.3

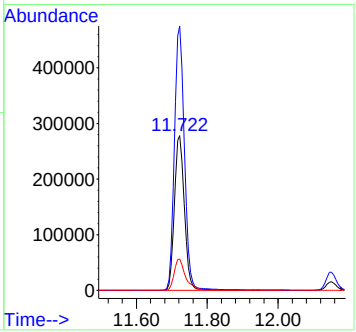


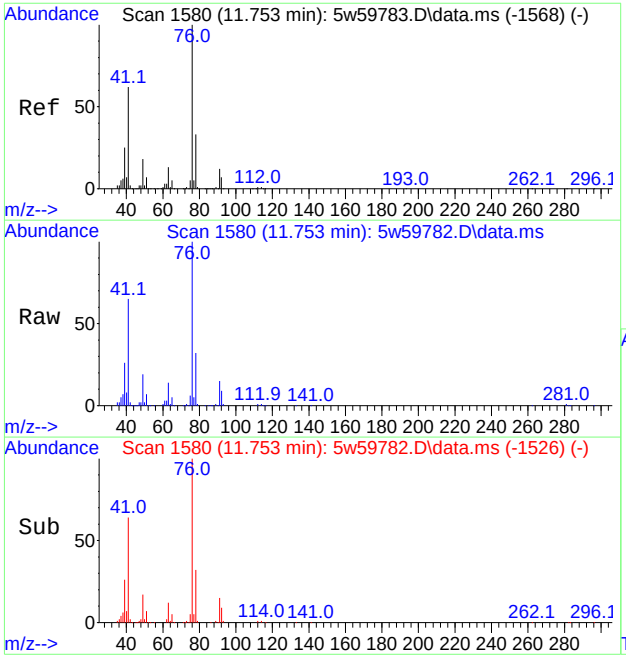


#66
TOLUENE
Concen: 5.55 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 92 Resp: 547474

Ion	Ratio	Lower	Upper
92	100		
91	170.9	140.1	200.1
65	23.1	0.0	53.1

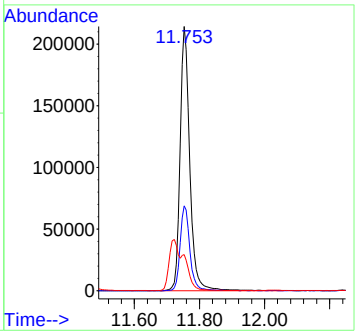


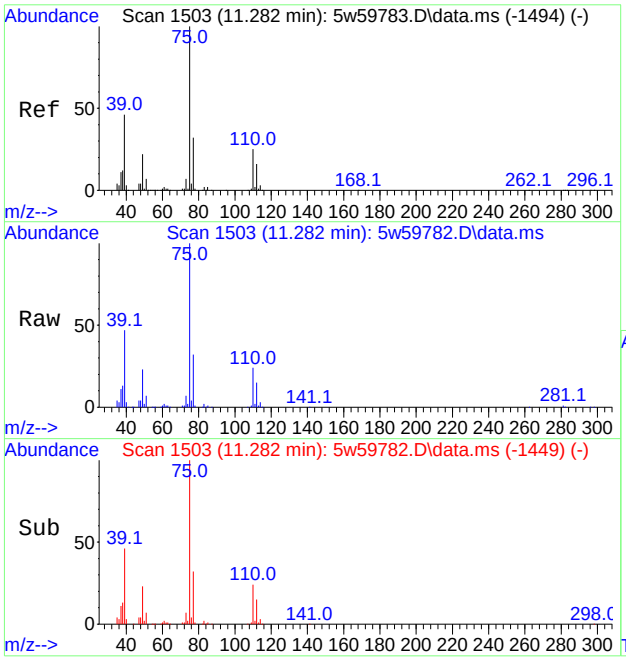


#67
1,3-DICHLOROPROPANE
Concen: 5.43 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 446082

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	11.2	7.1	13.1

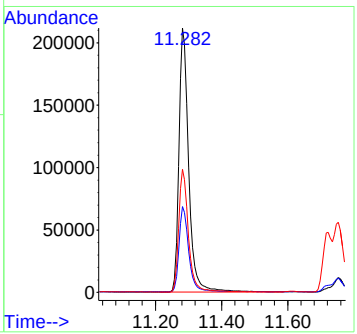


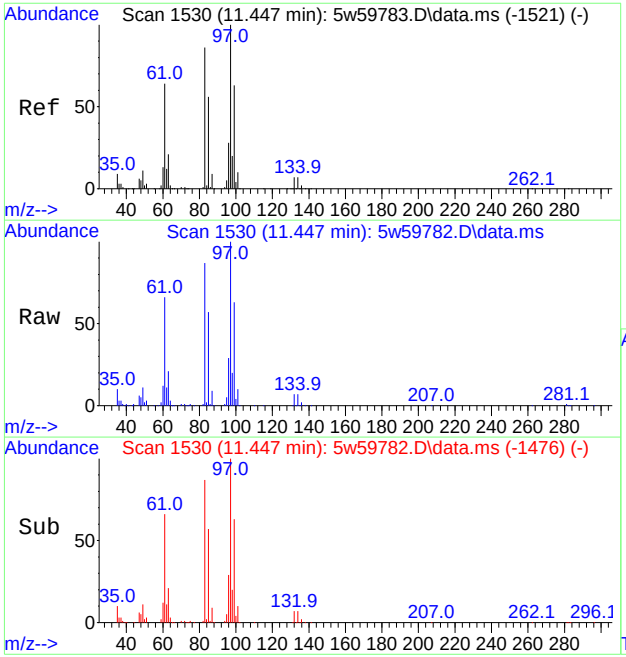


#68
trans-1,3-DICHLOROPROPENE
Concen: 5.29 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 434584

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	46.8	16.1	76.1

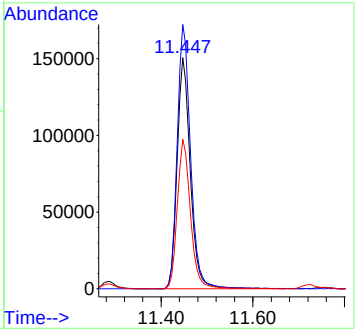


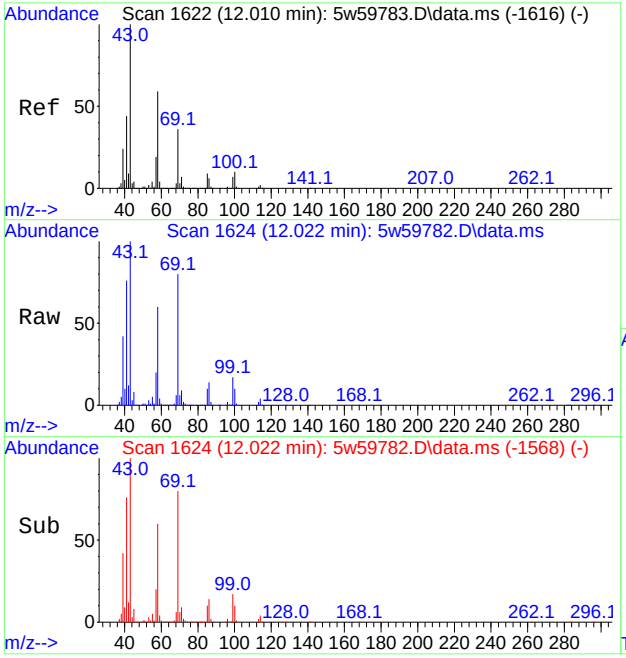


#69
1,1,2-TRICHLOROETHANE
Concen: 5.53 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 301561

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	64.7	35.3	95.3

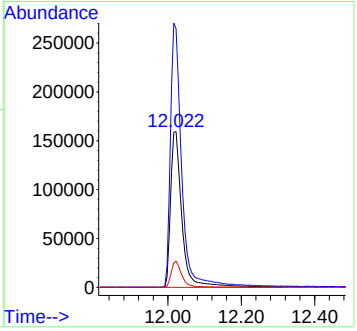


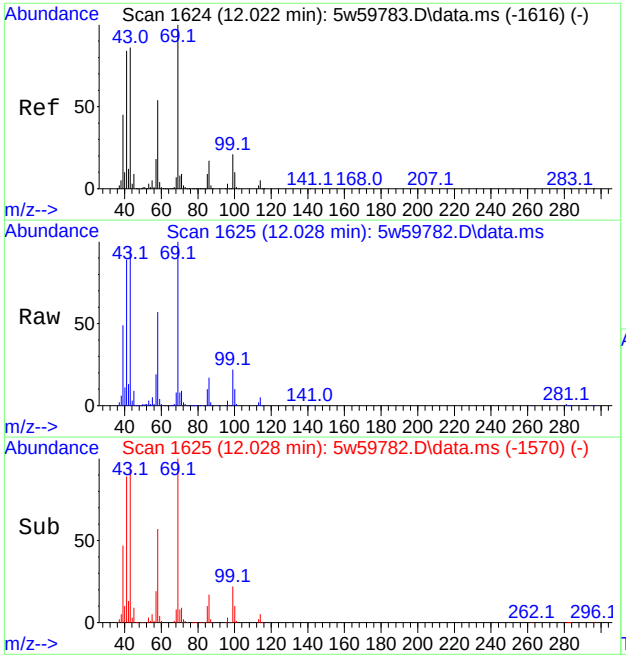


#71
2-HEXANONE
Concen: 6.43 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 344921

Ion	Ratio	Lower	Upper
58	100		
43	169.0	137.2	197.2
100	16.2	0.0	46.9

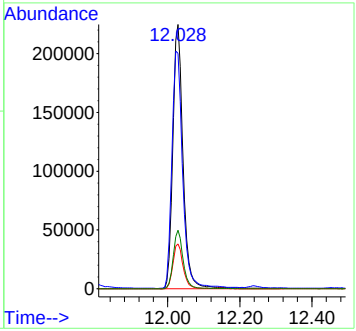


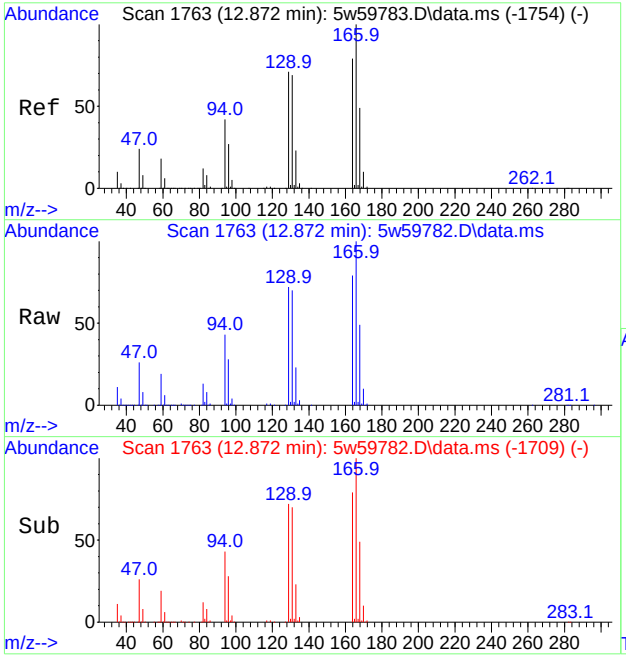


#72
ETHYL METHACRYLATE
Concen: 6.46 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 445397

Ion	Ratio	Lower	Upper
69	100		
41	94.9	64.0	119.0
86	16.9	12.0	22.4
99	21.6	15.0	27.8

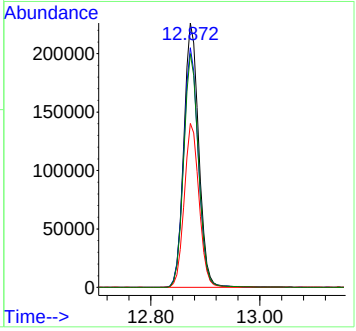


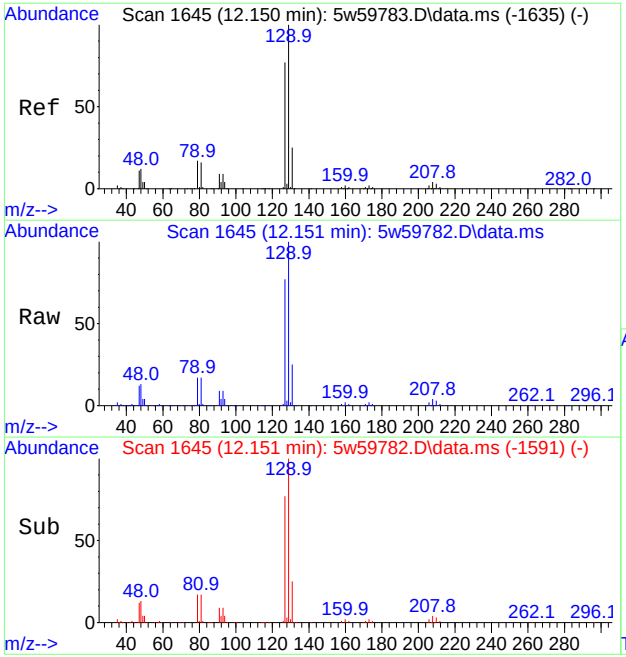


#73
TETRACHLOROETHYLENE
Concen: 5.33 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:164 Resp: 427336

Ion	Ratio	Lower	Upper
164	100		
129	90.2	59.7	119.7
168	62.2	32.2	92.2
131	88.1	57.8	117.8

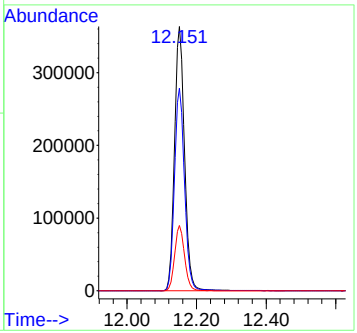


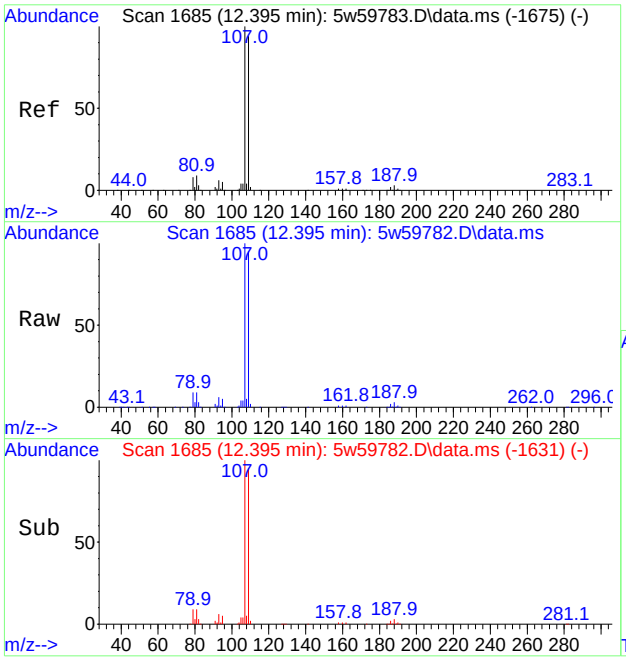


#74
DIBROMOCHLOROMETHANE
Concen: 5.41 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:129 Resp: 728217

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.5	0.0	54.5

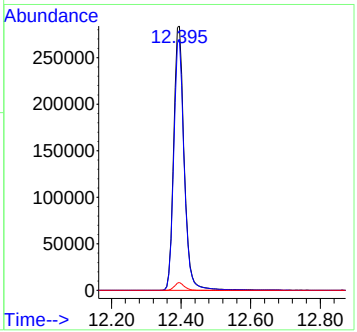


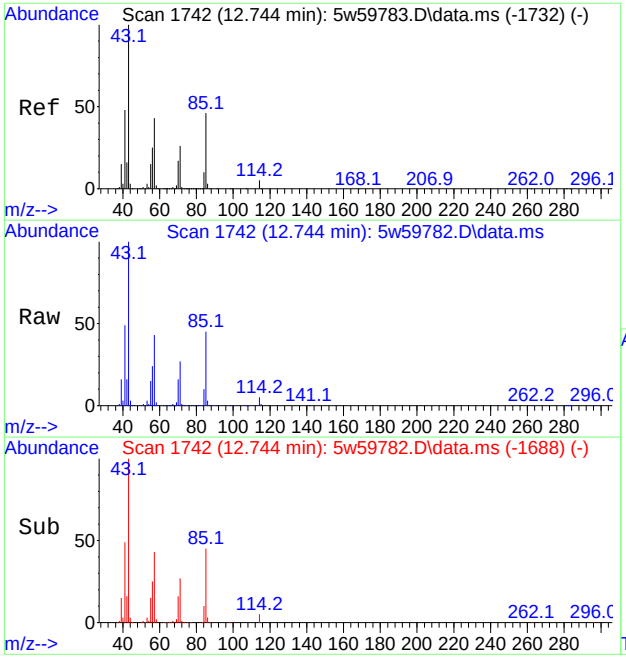


#75
1,2-DIBROMOETHANE
Concen: 5.98 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:107 Resp: 595110

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

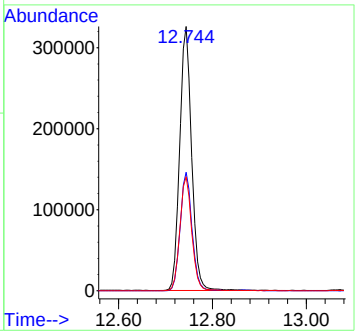


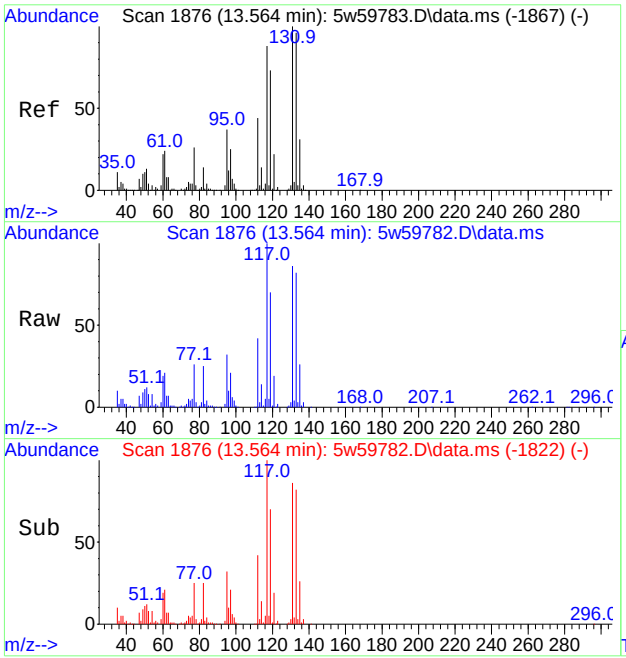


#76
OCTANE
Concen: 5.29 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 576898

Ion	Ratio	Lower	Upper
43	100		
85	44.8	14.6	74.6
57	43.5	13.7	73.7

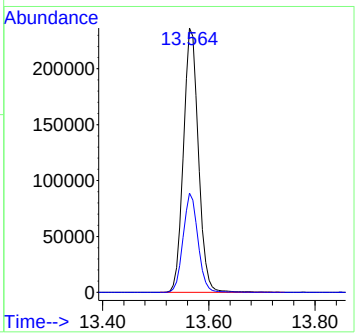


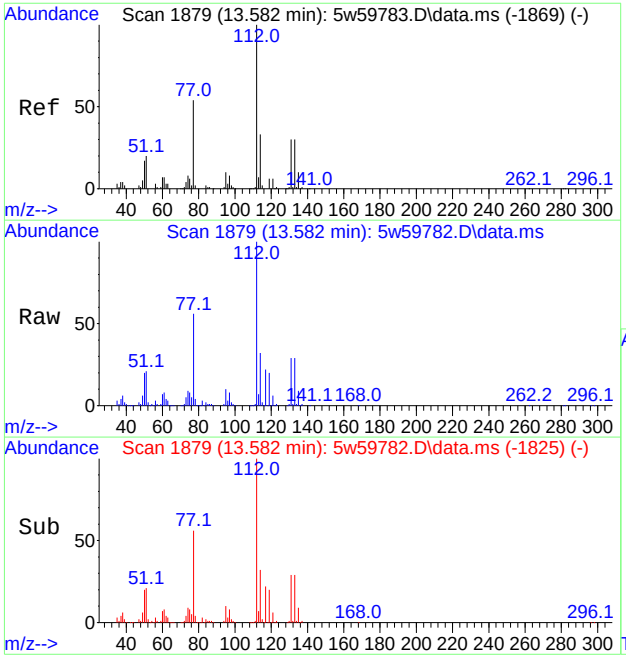


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.26 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:131 Resp: 463451

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

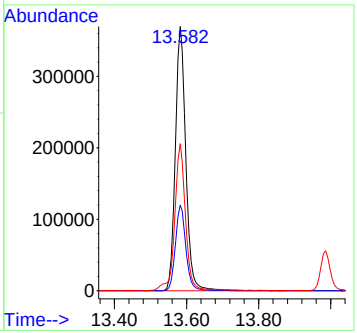


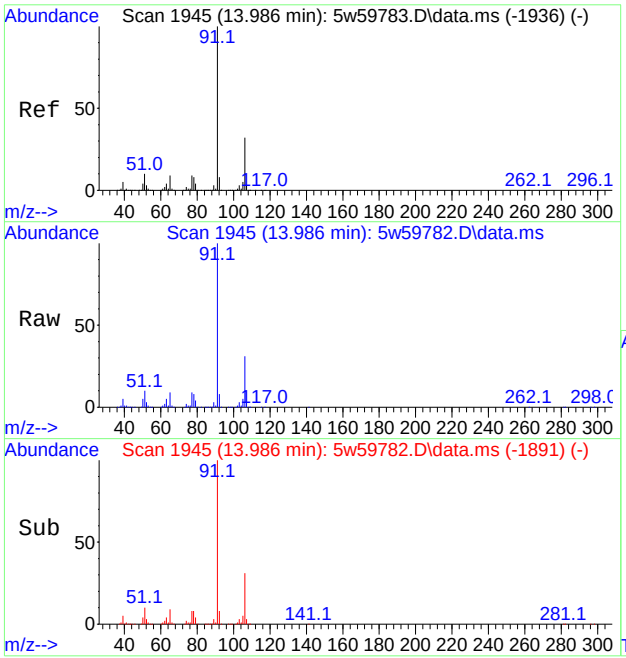


#78
CHLOROBENZENE
Concen: 5.17 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:112 Resp: 750075

Ion	Ratio	Lower	Upper
112	100		
114	32.5	2.6	62.6
77	57.4	25.4	85.4

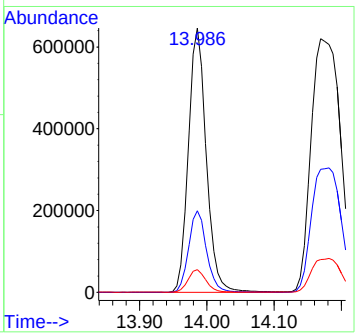


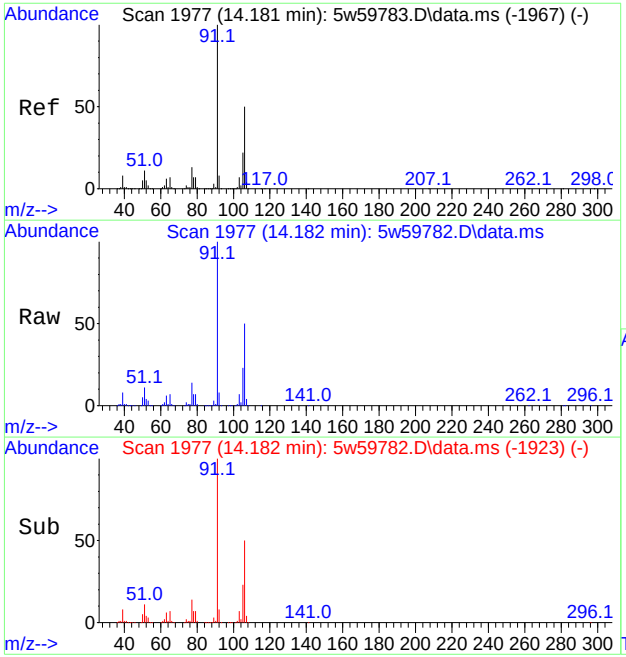


#79
ETHYLBENZENE
Concen: 5.80 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1198151

Ion	Ratio	Lower	Upper
91	100		
106	31.0	1.3	61.3
77	8.6	0.0	38.6

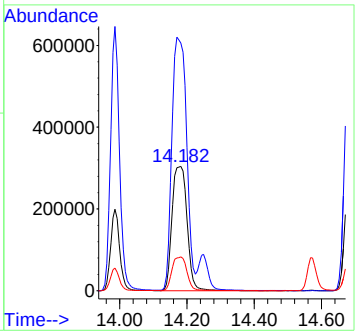


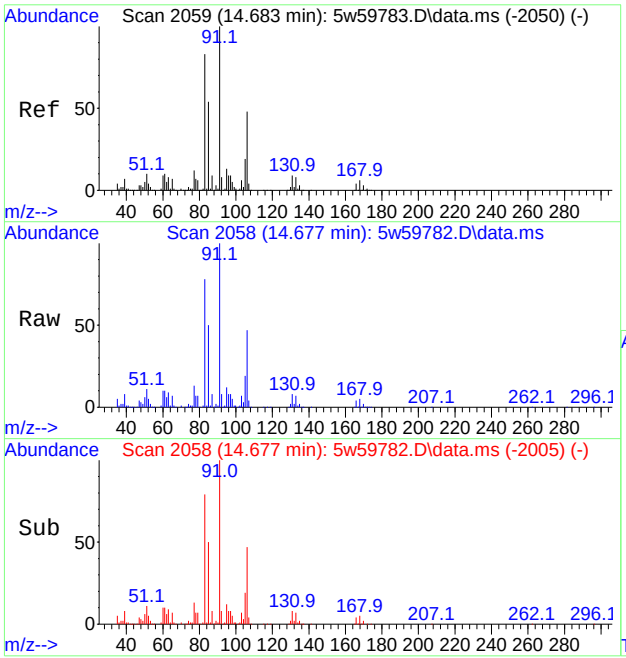


#80
m,p-XYLENE
Concen: 11.83 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 943241

Ion	Ratio	Lower	Upper
106	100		
91	199.4	171.0	231.0
77	27.3	0.0	56.7

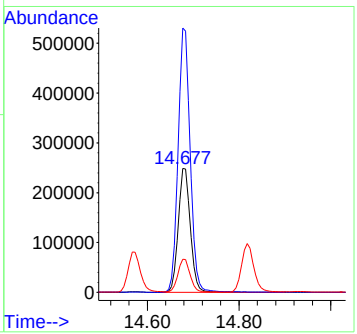


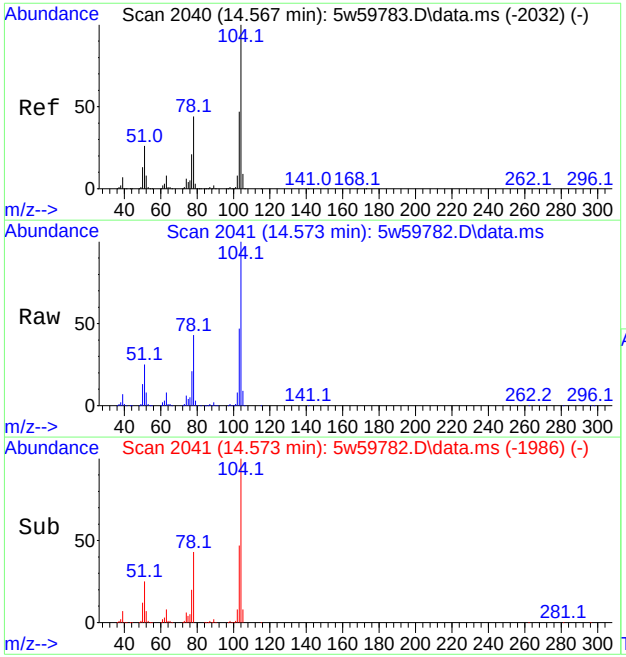


#81
o-XYLENE
Concen: 6.21 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 456348

Ion	Ratio	Lower	Upper
106	100		
91	212.0	181.6	241.6
77	27.1	0.0	56.6

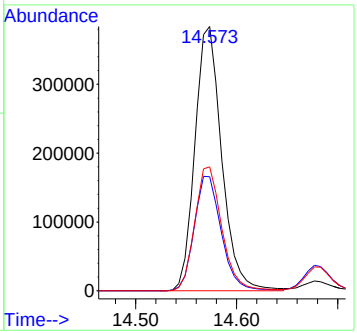


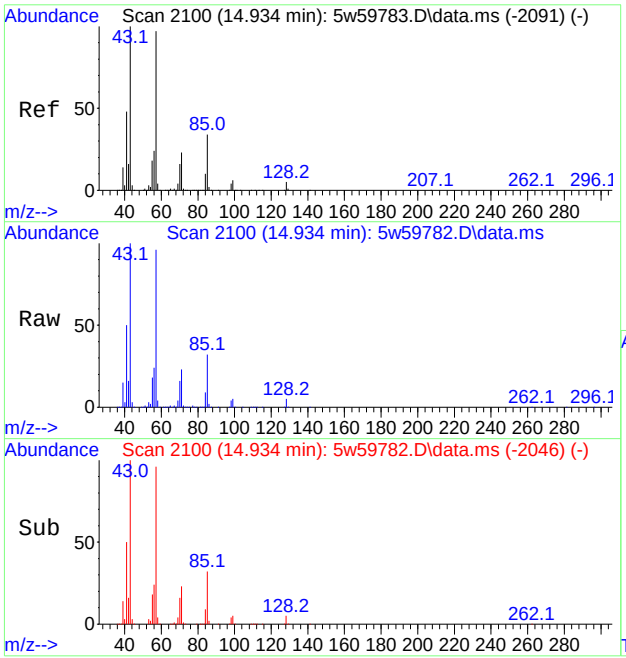


#82
STYRENE
Concen: 6.37 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:104 Resp: 711140

Ion	Ratio	Lower	Upper
104	100		
78	43.6	13.3	73.3
103	47.1	17.2	77.2

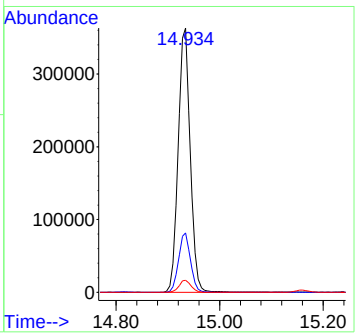


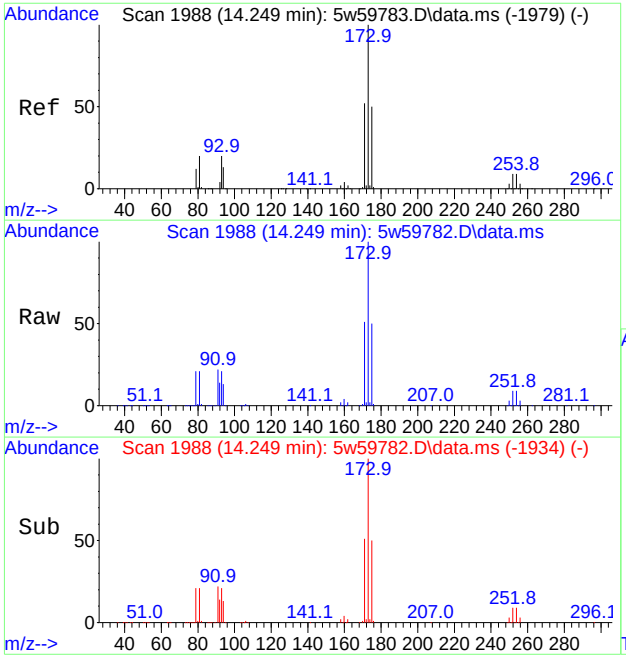


#83
NONANE
Concen: 5.44 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 586796

Ion	Ratio	Lower	Upper
43	100		
71	22.3	0.0	52.7
128	4.6	0.0	34.7

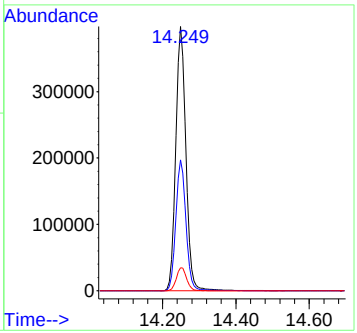


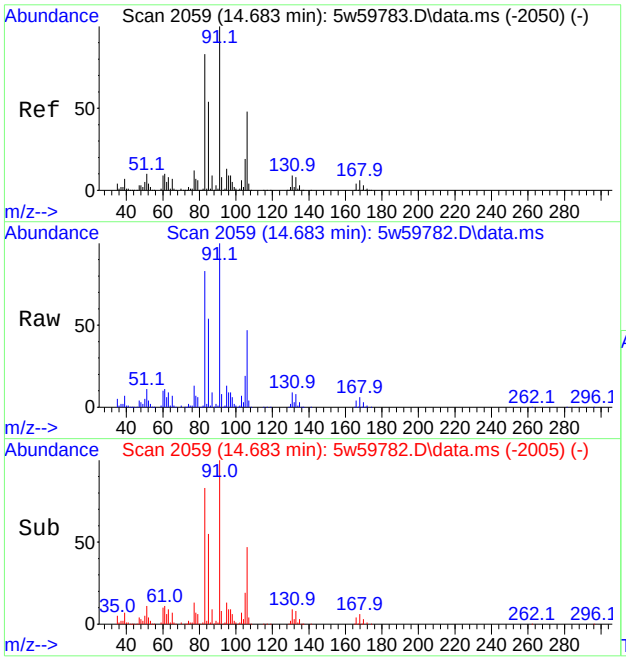


#84
BROMOFORM
Concen: 5.54 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:173 Resp: 765790

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	8.9	0.0	39.0

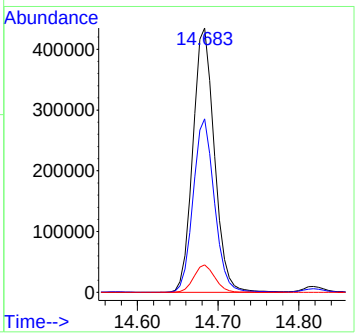


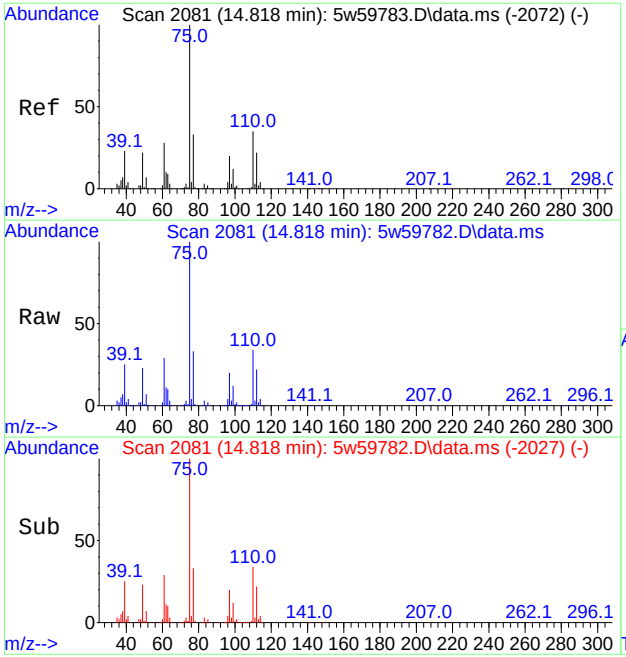


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 6.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 804240

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.2	95.2
131	10.3	0.0	40.3

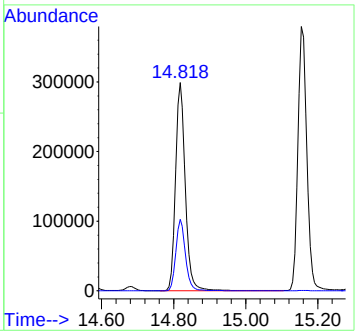


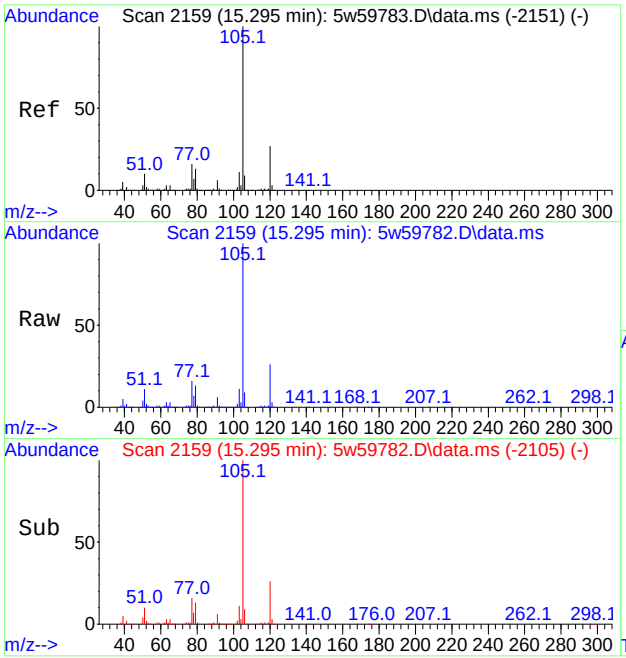


#87
1,2,3-TRICHLOROPROPANE
Concen: 5.21 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 563086

Ion	Ratio	Lower	Upper
75	100		
110	34.0	4.4	64.4

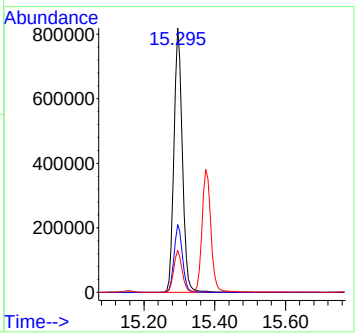


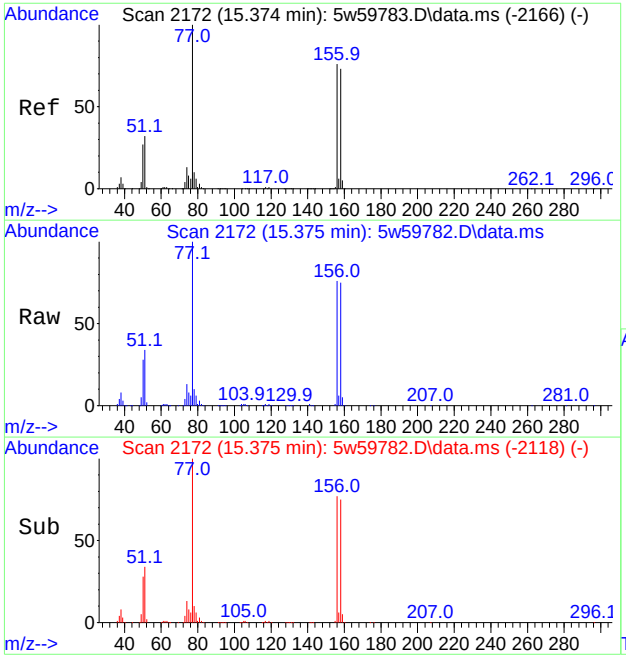


#88
ISOPROPYLBENZENE
Concen: 5.60 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1351649

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	15.5	0.0	45.6

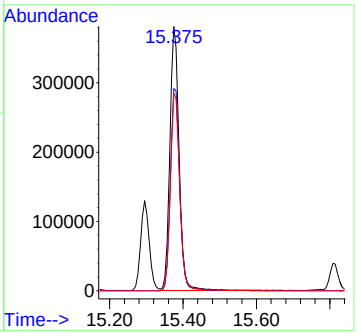


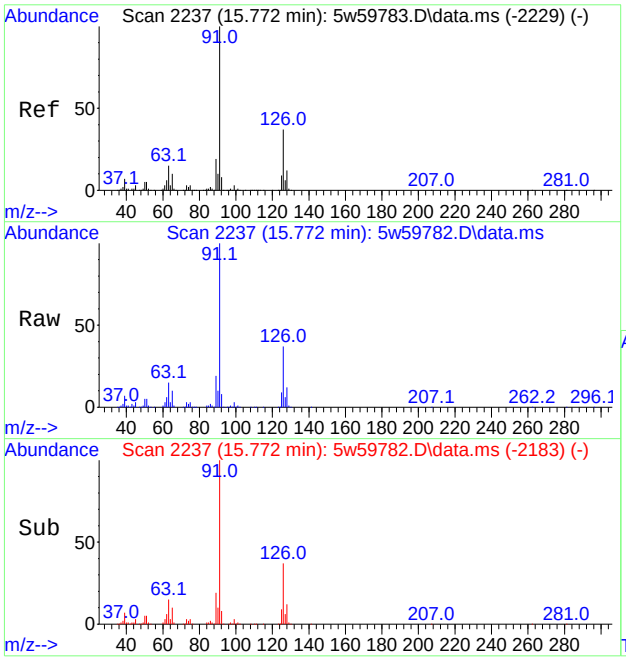


#89
BROMOBENZENE
Concen: 5.25 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 77 Resp: 663458

Ion	Ratio	Lower	Upper
77	100		
156	78.3	54.9	101.9
158	75.8	53.5	99.3

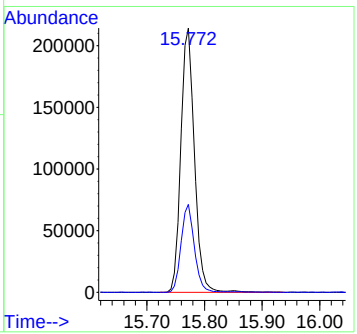


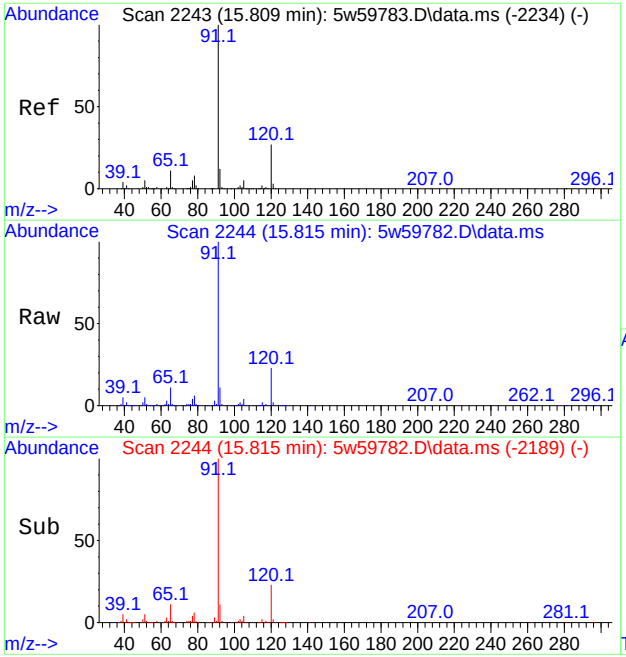


#90
2-CHLOROTOLUENE
Concen: 5.42 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:126 Resp: 351599

Ion	Ratio	Lower	Upper
126	100		
128	32.9	2.7	62.7

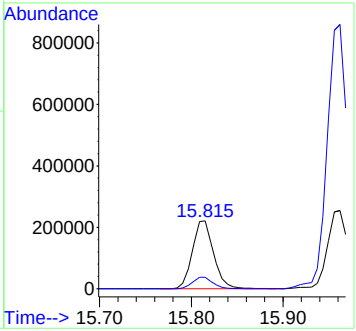


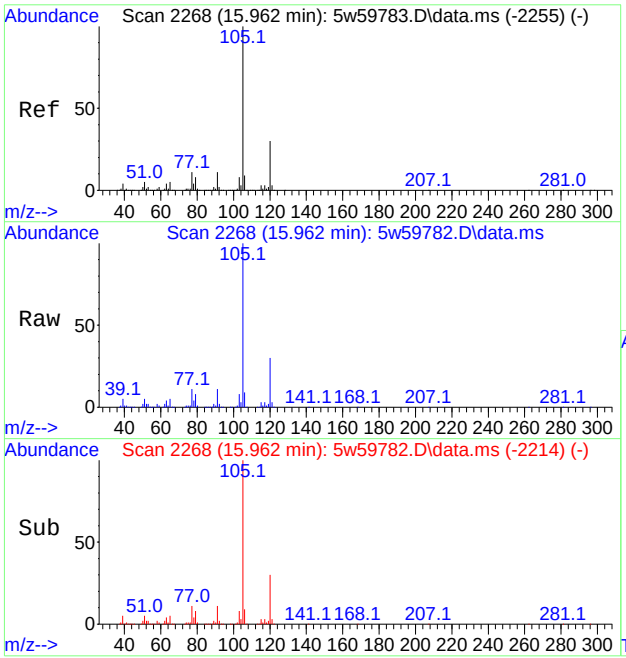


#91
n-PROPYLBENZENE
Concen: 5.54 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:120 Resp: 357322

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

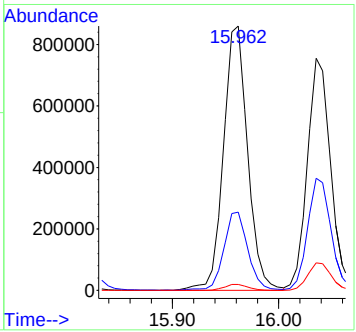


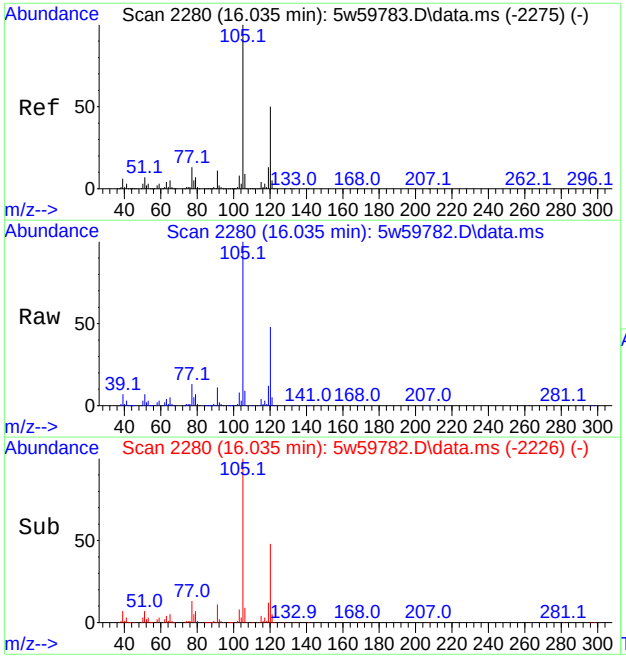


#92
4-ETHYLTOLUENE
Concen: 6.29 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1362882

Ion	Ratio	Lower	Upper
105	100		
120	29.5	0.0	59.9
119	2.3	0.0	32.3

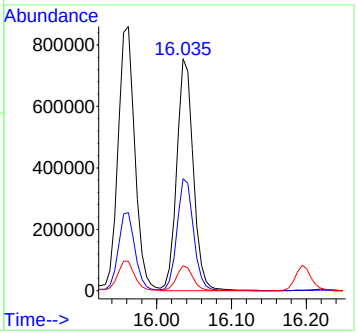


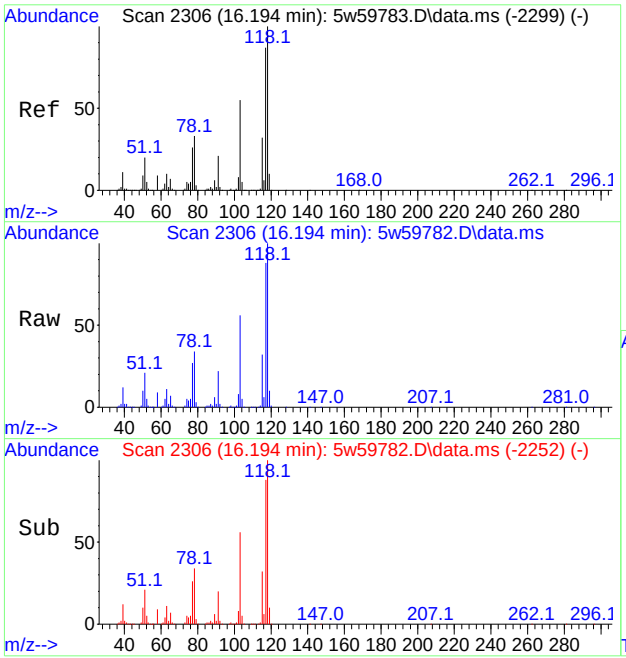


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.77 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1159491

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.4	79.4
91	10.9	0.0	40.8

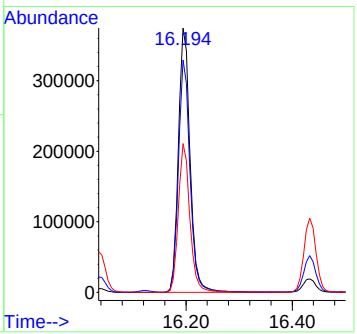


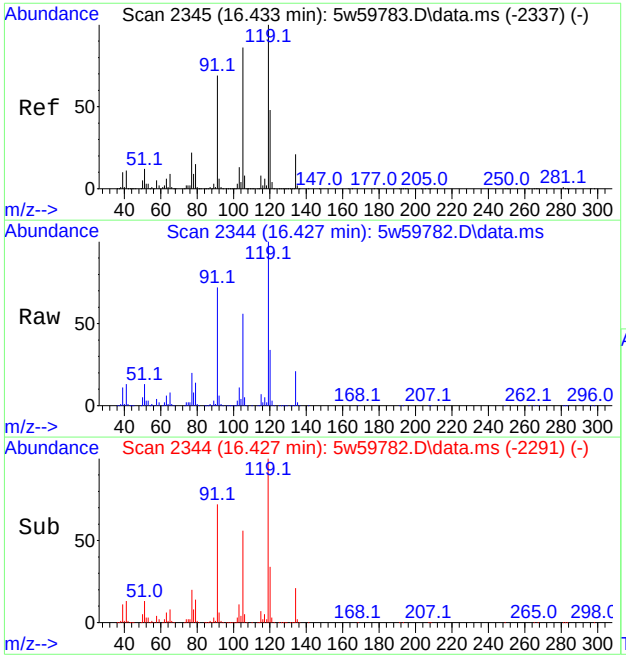


#94
ALPHA-METHYLSTYRENE
Concen: 5.89 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:118 Resp: 573224

Ion	Ratio	Lower	Upper
118	100		
117	87.5	60.9	113.1
103	55.8	38.6	71.8

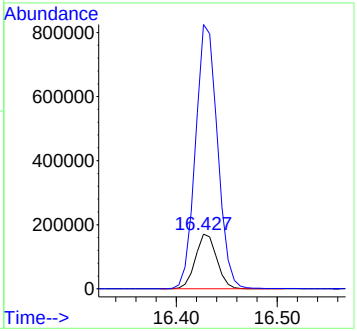


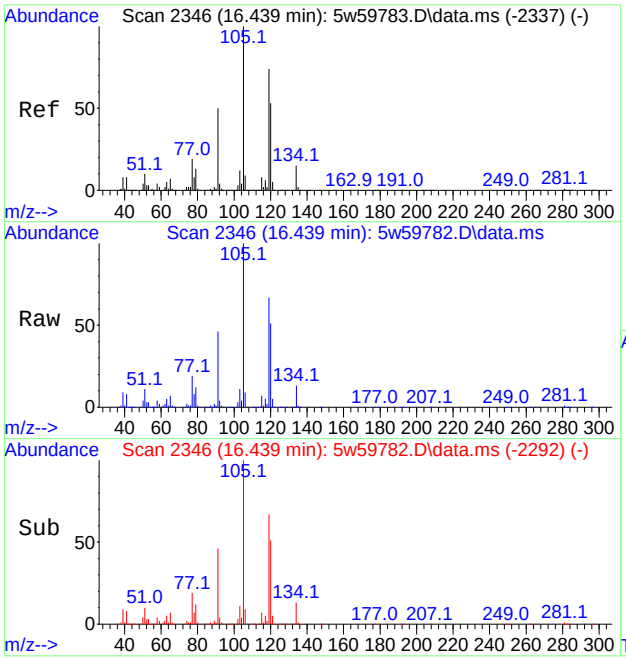


#95
tert-BUTYLBENZENE
Concen: 6.02 PPBV
RT: 16.427 min Scan# 2344
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 250823

Ion	Ratio	Lower	Upper
134	100		
119	500.9	459.3	519.3

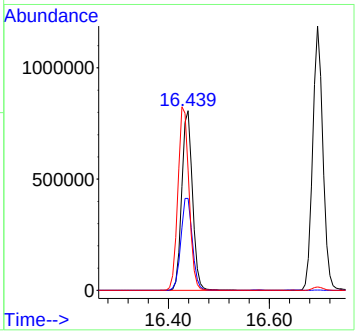


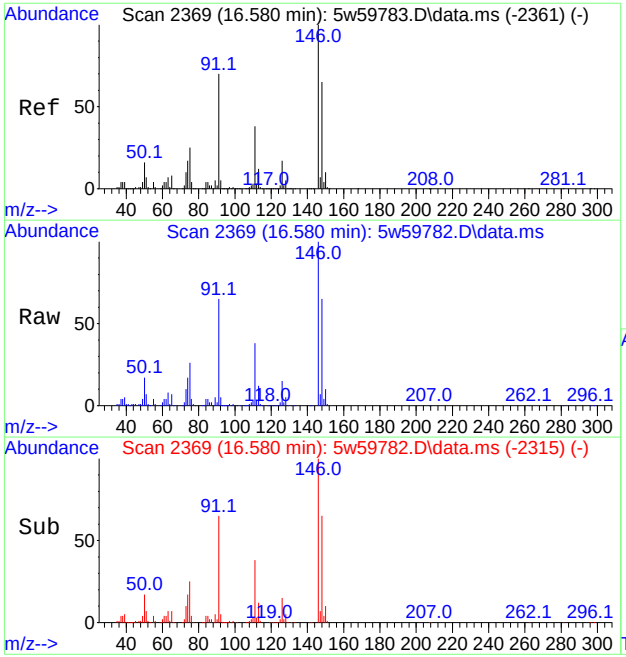


#96
1,2,4-TRIMETHYLBENZENE
Concen: 6.18 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1191915

Ion	Ratio	Lower	Upper
105	100		
120	55.1	25.7	85.7
119	105.4	75.7	135.7

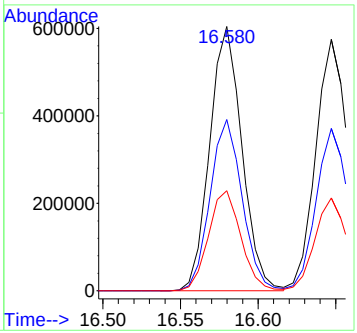


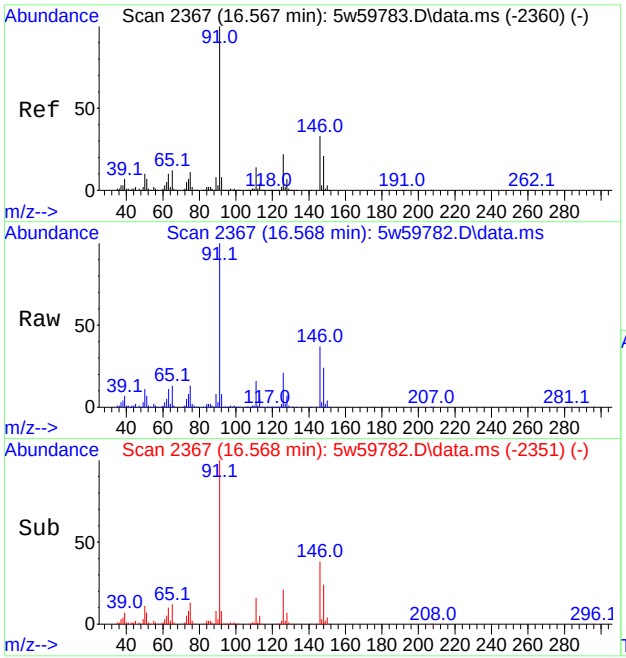


#97
m-DICHLOROBENZENE
Concen: 5.56 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 871935

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.8	94.8
111	38.2	8.2	68.2

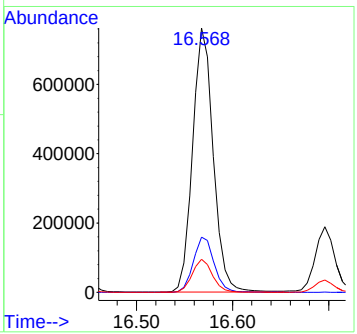


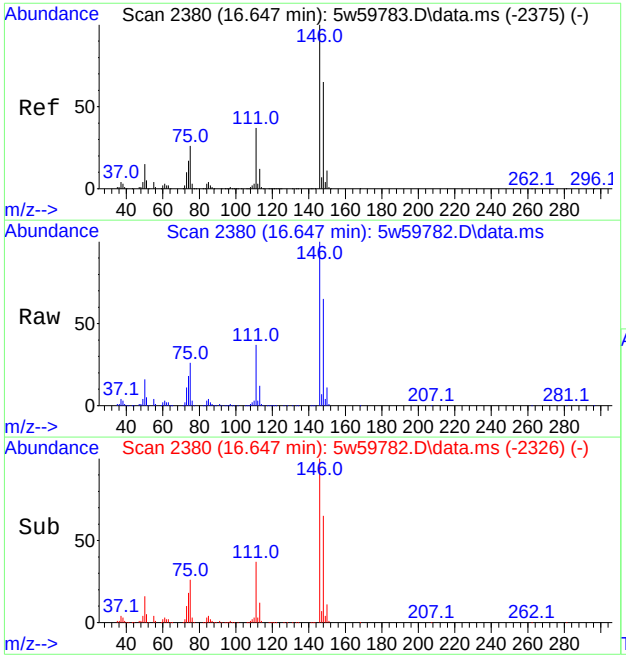


#98
BENZYL CHLORIDE
Concen: 6.44 PPBV
RT: 16.568 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1137176

Ion	Ratio	Lower	Upper
91	100		
126	21.2	0.0	51.7
65	12.5	0.0	42.2

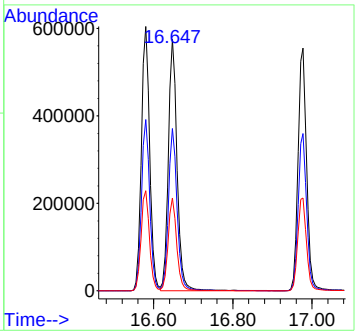


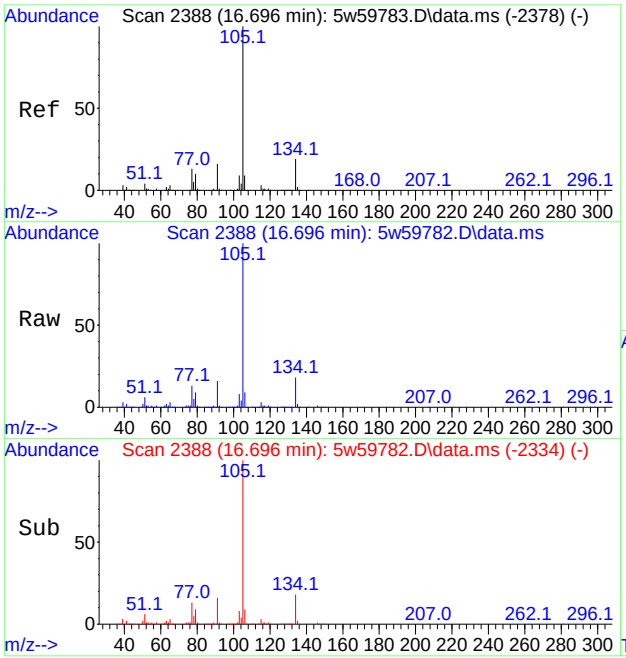


#99
p-DICHLOROBENZENE
Concen: 5.40 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 878264

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.6	94.6
111	36.4	6.7	66.7

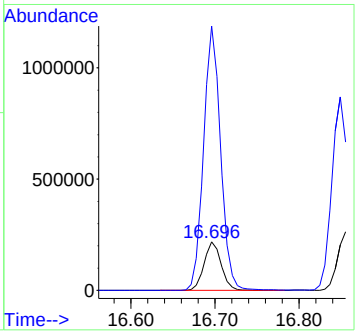


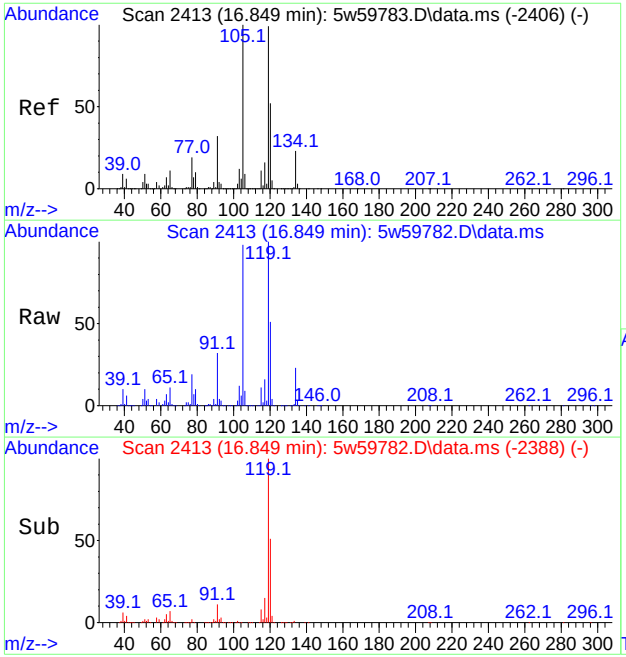


#100
sec-BUTYLBENZENE
Concen: 5.79 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 309649

Ion	Ratio	Lower	Upper
134	100		
105	540.4	502.5	562.5

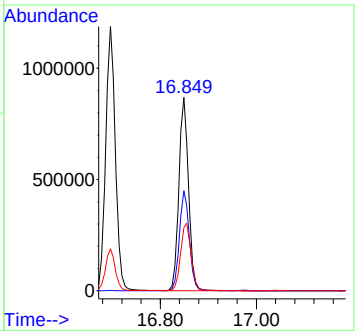


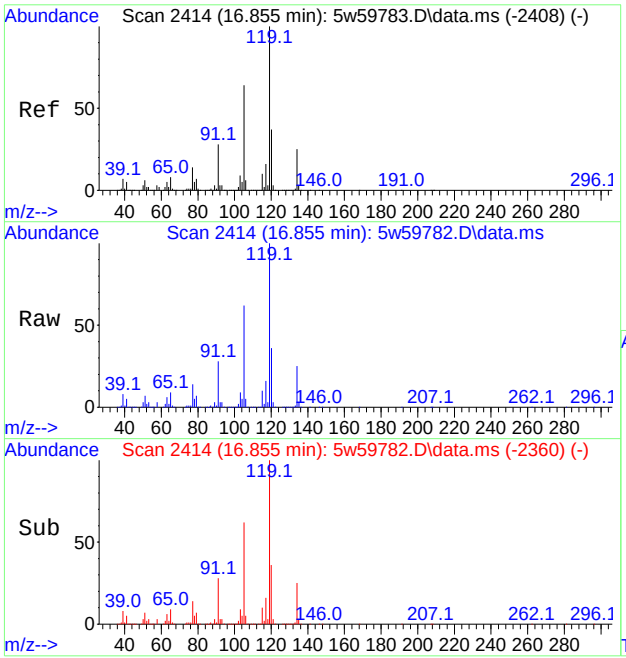


#101
1,2,3-TRIMETHYLBENZENE
Concen: 5.87 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1209627

Ion	Ratio	Lower	Upper
105	100		
120	53.0	23.5	83.5
91	37.7	7.4	67.4

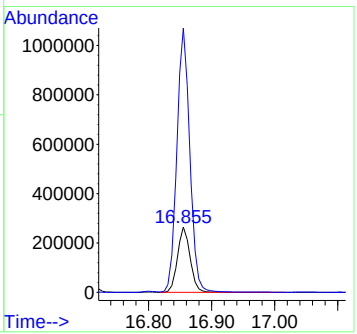


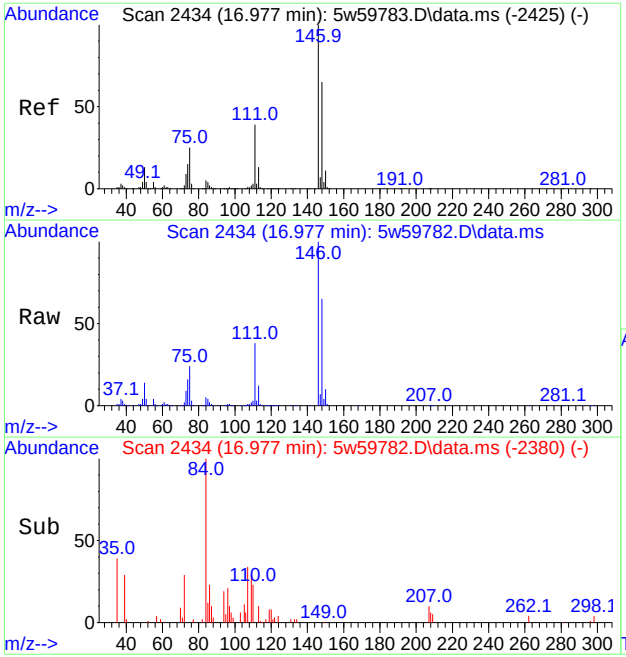


#102
p-ISOPROPYLTOLUENE
Concen: 6.01 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 367882

Ion	Ratio	Lower	Upper
134	100		
119	416.3	377.7	437.7

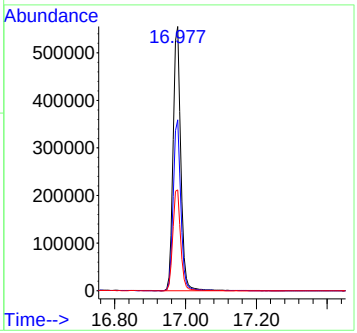


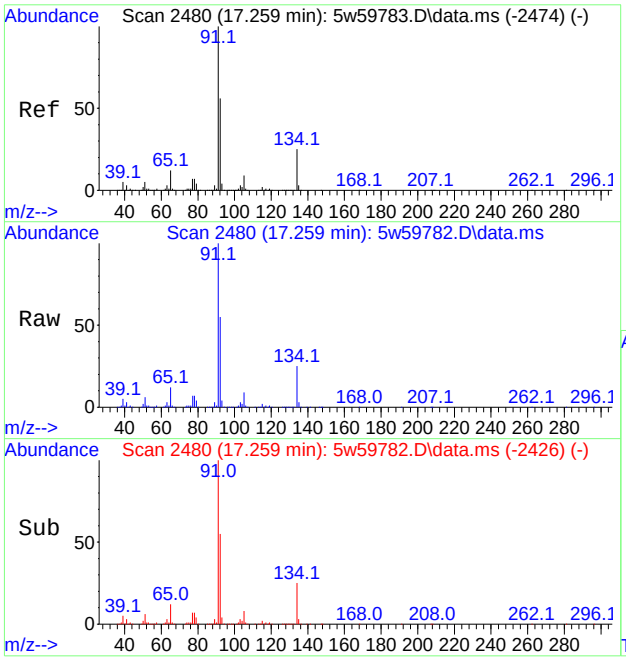


#103
o-DICHLOROBENZENE
Concen: 5.25 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 831952

Ion	Ratio	Lower	Upper
146	100		
148	64.2	34.3	94.3
111	39.5	9.2	69.2

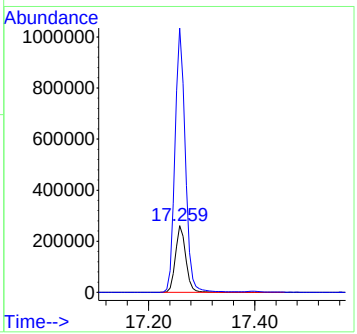


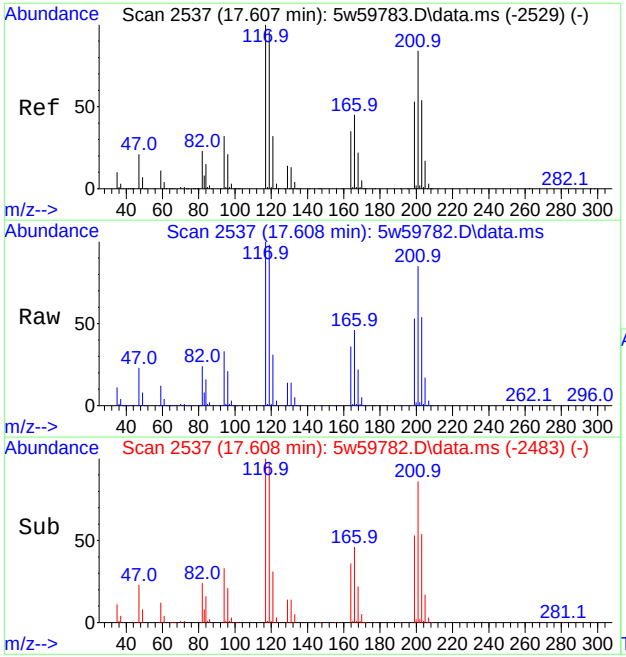


#104
n-BUTYLBENZENE
Concen: 6.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 353476

Ion	Ratio	Lower	Upper
134	100		
91	394.8	363.1	423.1

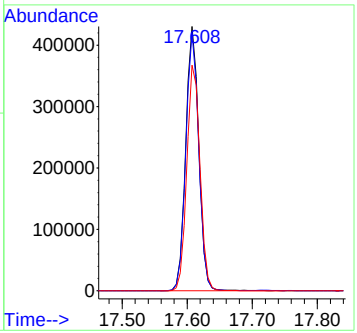


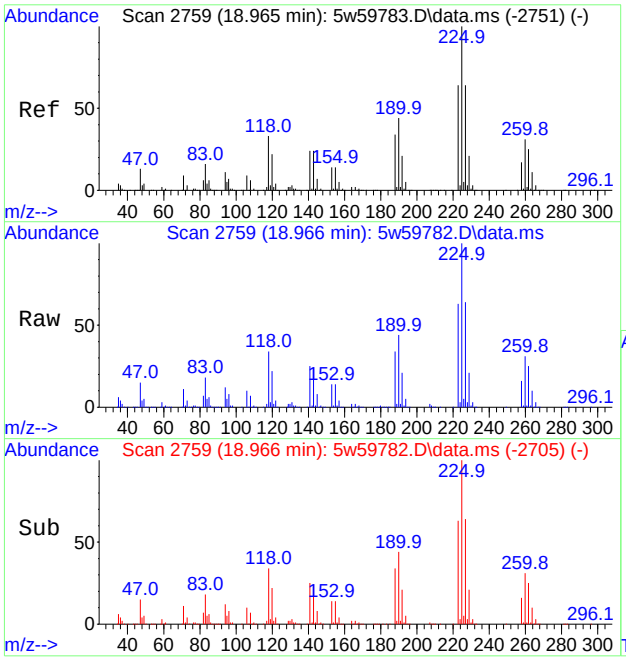


#105
HEXACHLOROETHANE
Concen: 5.71 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 597723

Ion	Ratio	Lower	Upper
117	100		
119	96.4	67.2	124.8
201	86.1	61.1	113.5

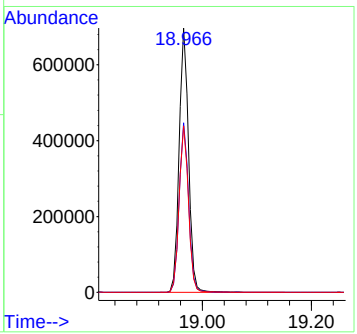


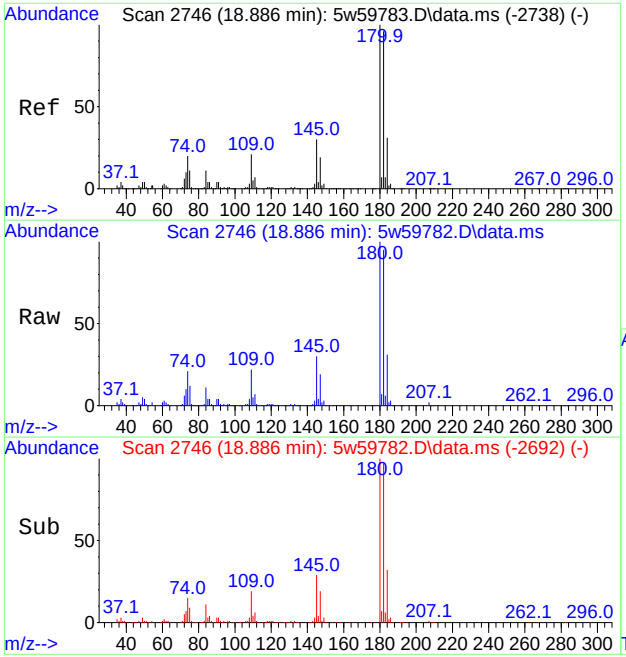


#106
HEXACHLOROBUTADIENE
Concen: 5.13 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:225 Resp: 827665

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	62.9	33.3	93.3

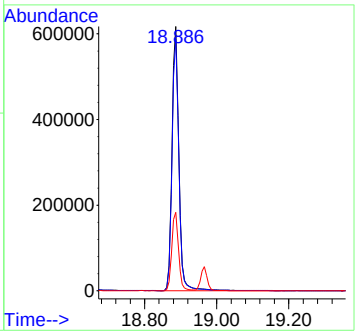


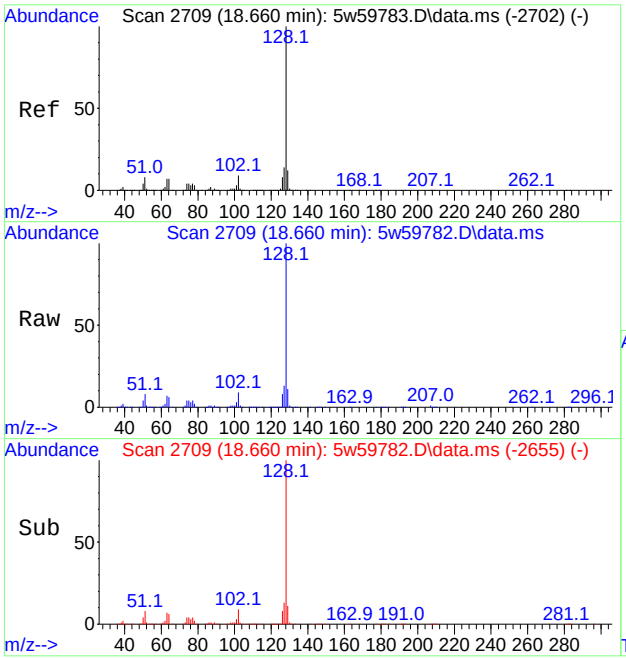


#107
1,2,4-TRICHLOROBENZENE
Concen: 7.16 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:180 Resp: 807736

Ion	Ratio	Lower	Upper
180	100		
182	95.5	65.4	125.4
145	29.5	0.0	59.4

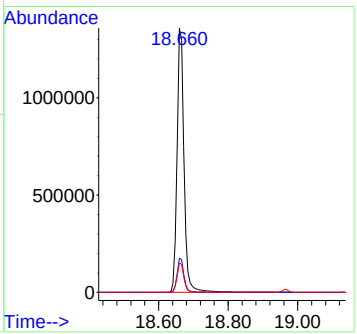


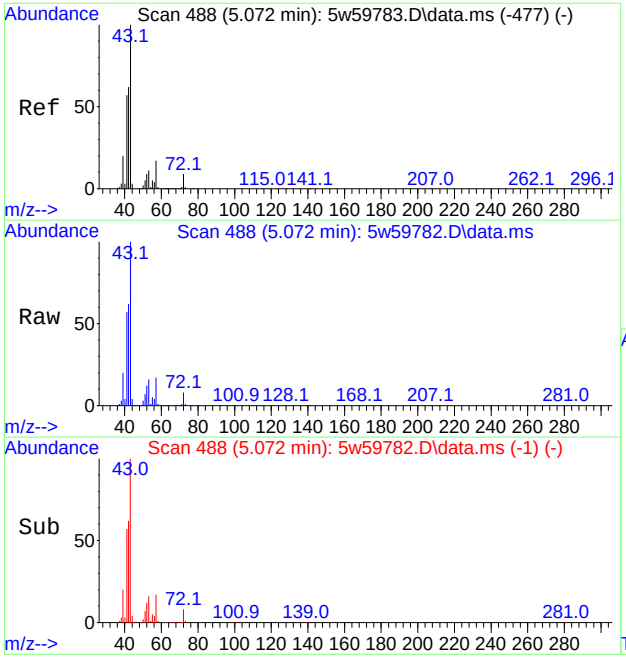


#108
NAPHTHALENE
Concen: 7.30 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:128 Resp: 1912544

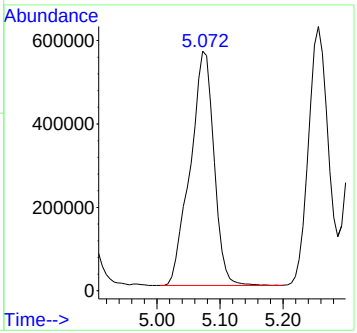
Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	43.3
129	11.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 4.29 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:TIC Resp: 1469674



7.7.5

7

Manual Integration Approval Summary

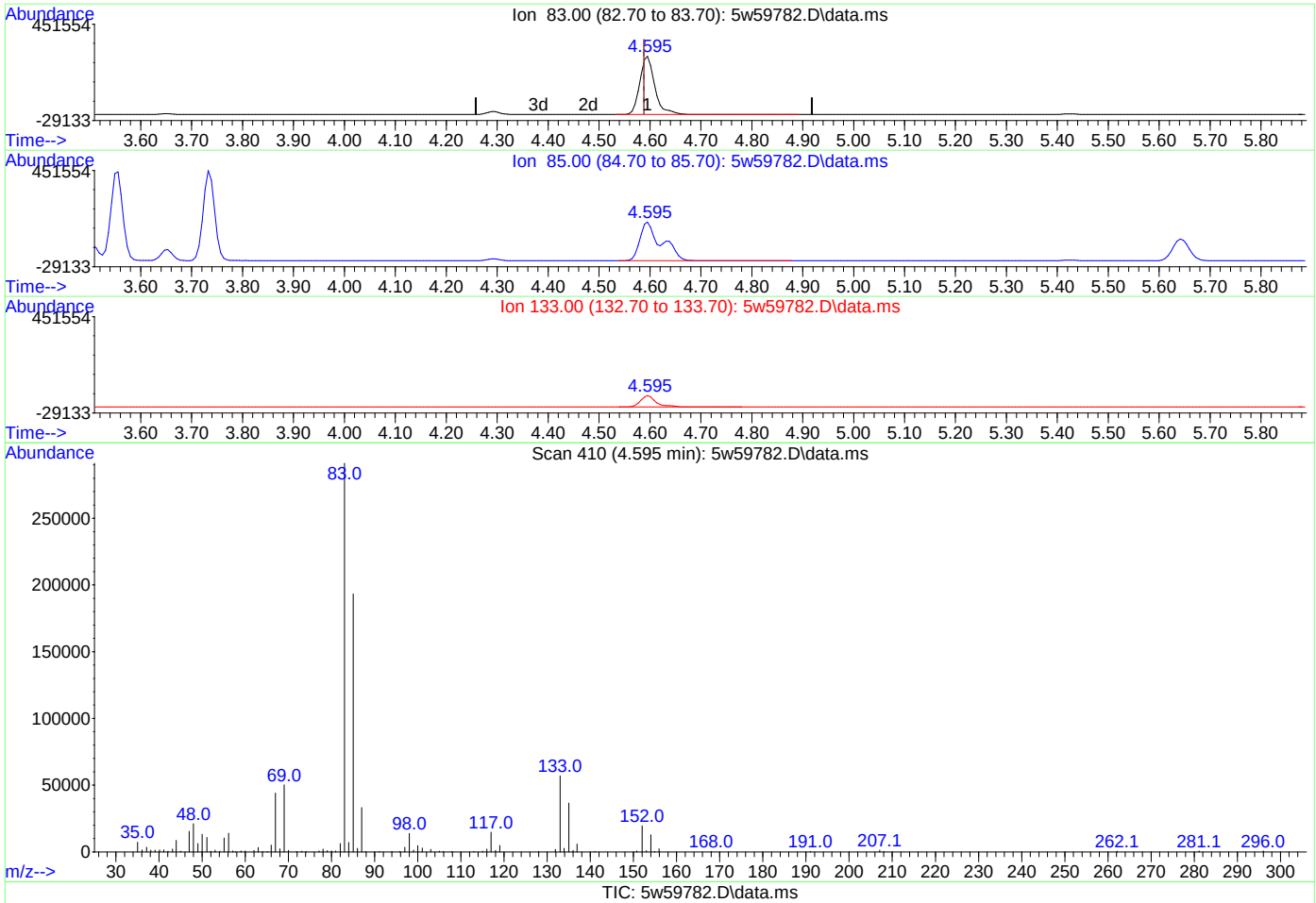
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59782.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 06:57 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.43	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV

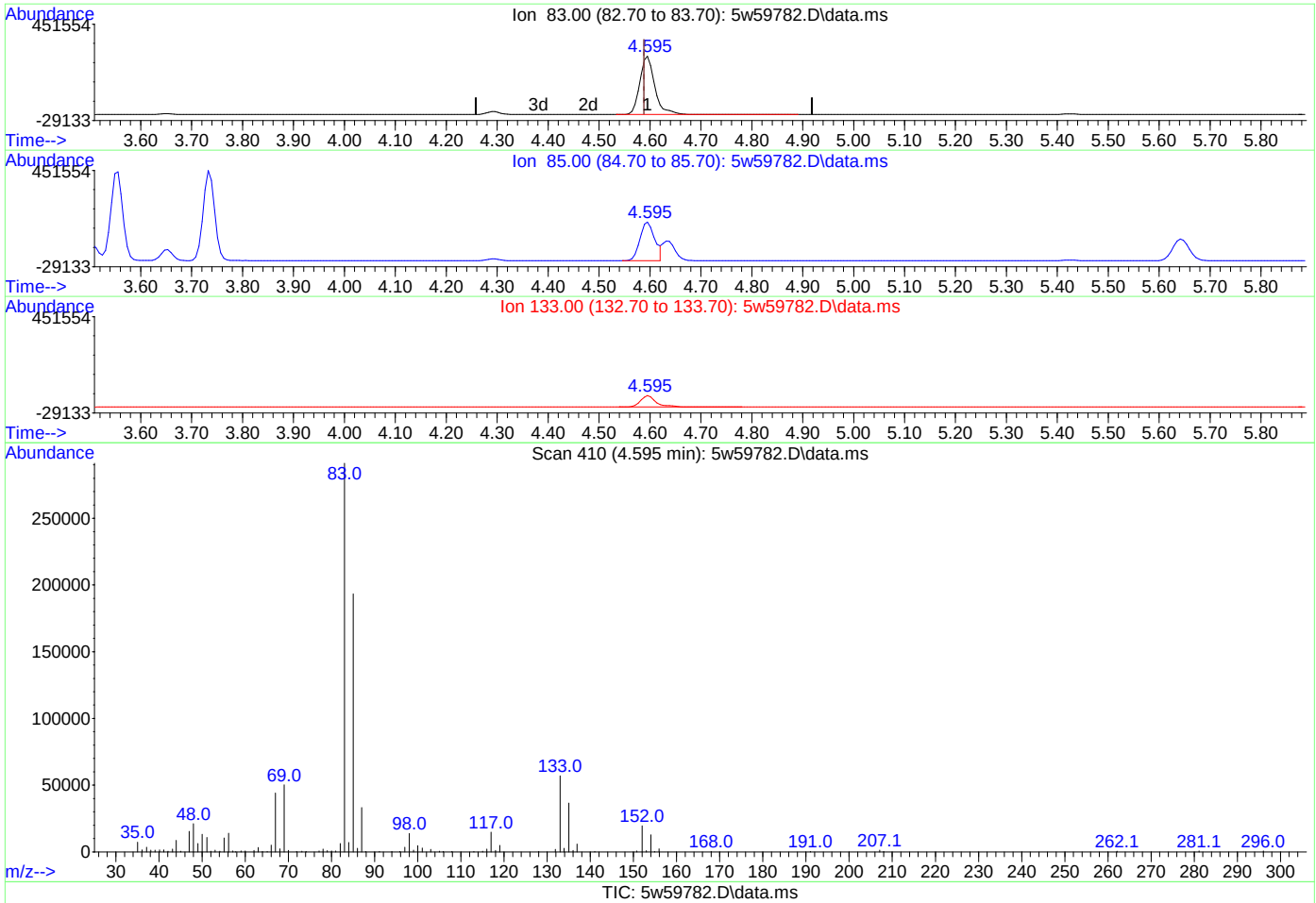
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.31#
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV m

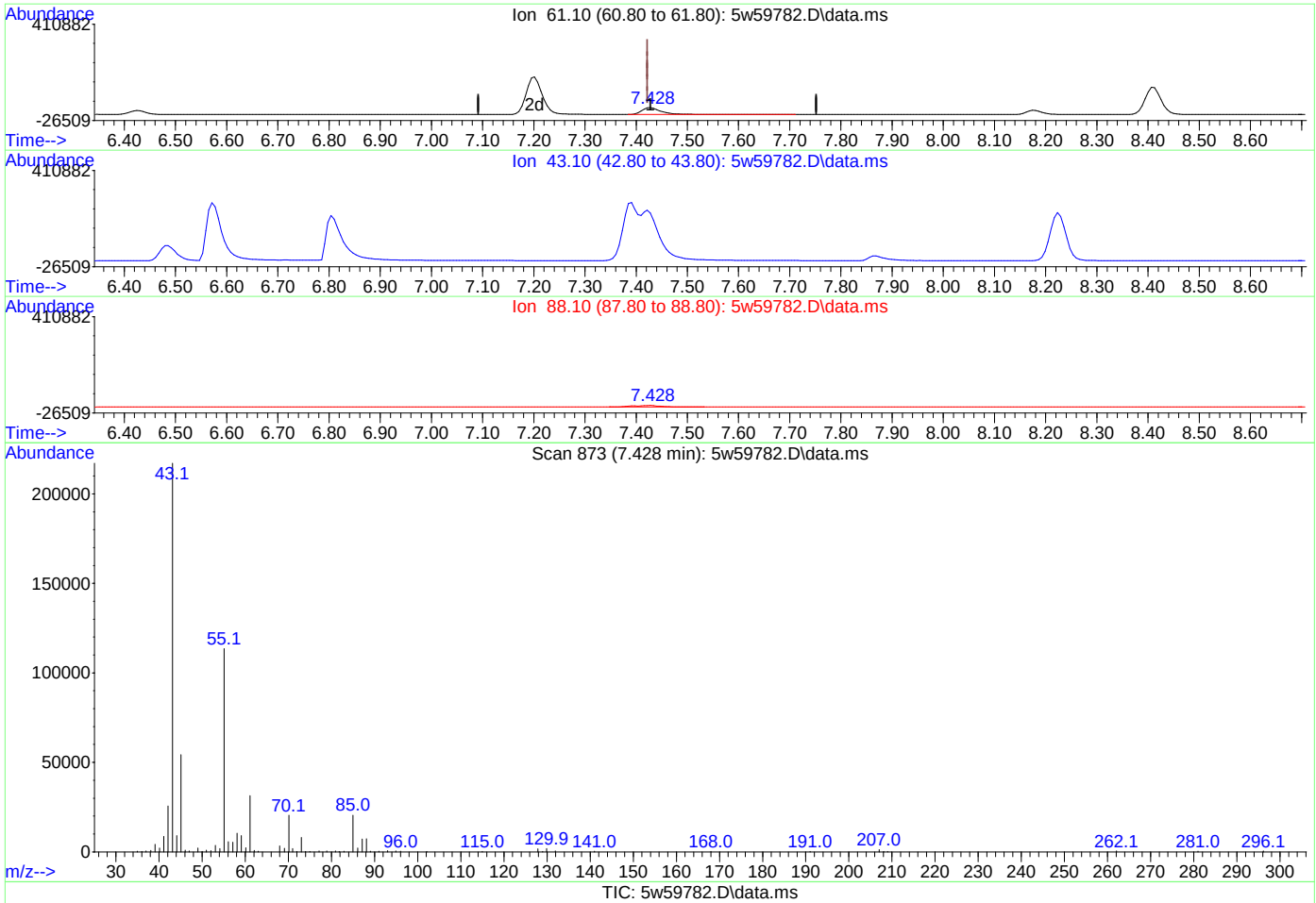
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.72
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV

response 87258

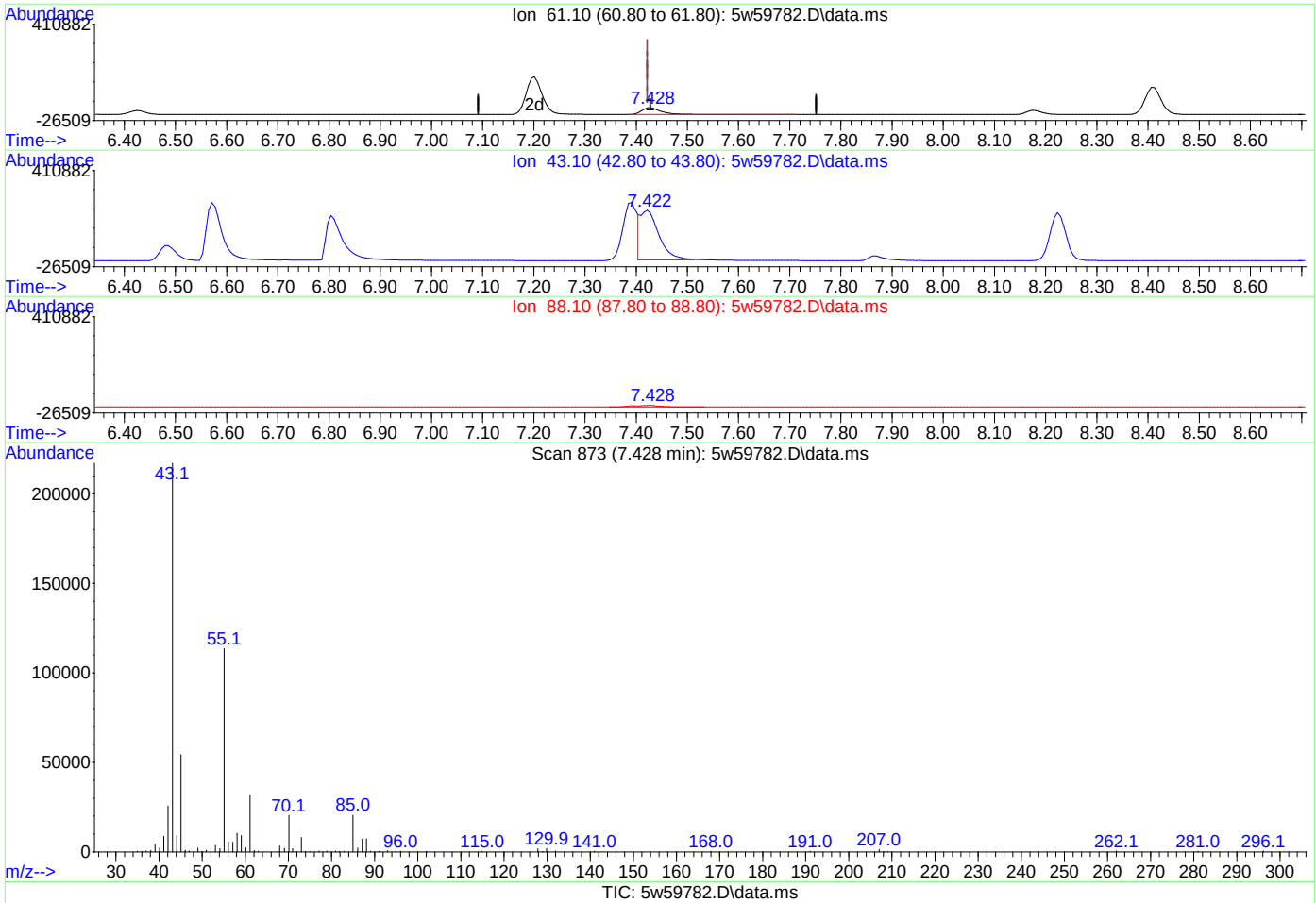
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	32.87
0.00	0.00	0.00

5W59782.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV m

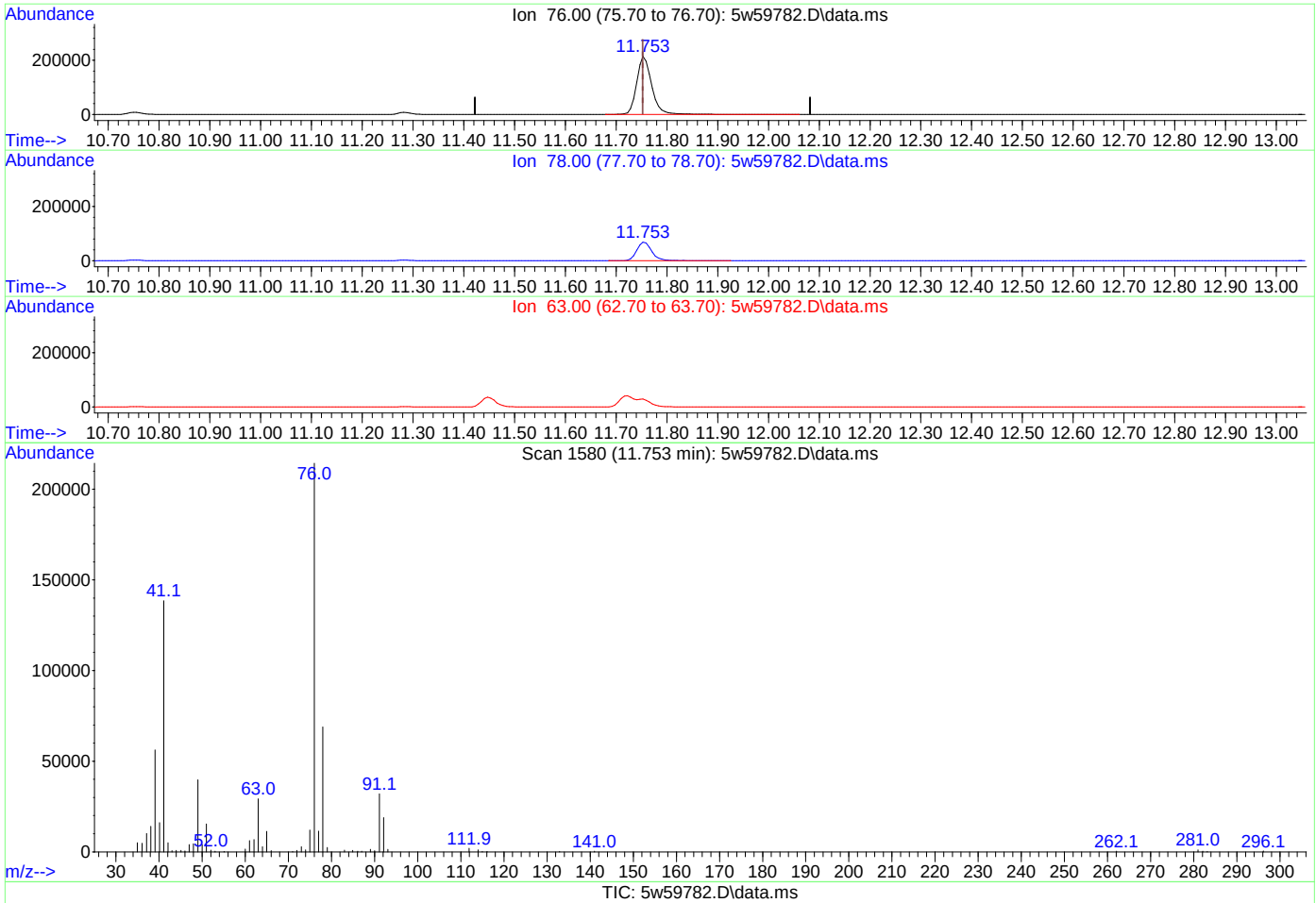
response 87258

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	636.36#
88.10	34.50	32.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV

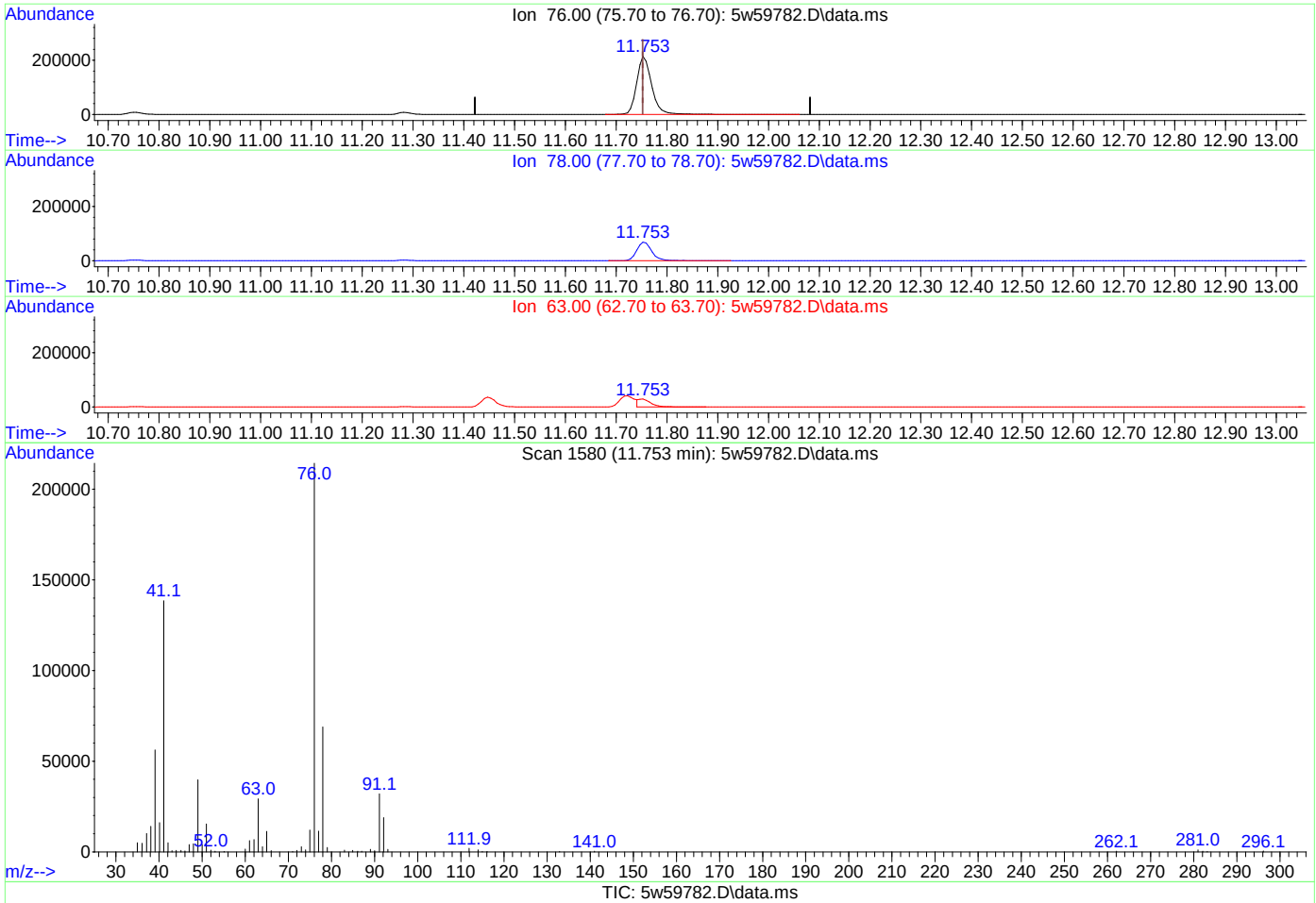
response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV m

response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	11.22
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	458592	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2019630	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1088548	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	459307	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1400456	10.41	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.10%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	318291	5.37	PPBV	100
3) FREON 152A	3.445	65	311212	8.83	PPBV	100
4) CHLORODIFLUOROMETHANE	3.475	67	154727	9.59	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.506	116	762524	10.03	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.549	85	1445515	9.55	PPBV	100
7) PROPYLENE	3.500	41	343468	8.81	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1103467	8.04	PPBV	100
9) FREON 114	3.732	85	1375524	10.56	PPBV	100
10) CHLOROMETHANE	3.665	52	141881	8.80	PPBV	100
11) VINYL CHLORIDE	3.818	62	472875	9.34	PPBV	100
12) 1,3-BUTADIENE	3.910	54	284232	8.35	PPBV	100
13) n-BUTANE	3.946	43	454503	7.37	PPBV	100
14) BROMOMETHANE	4.106	94	500092	10.05	PPBV	100
15) CHLOROETHANE	4.222	64	205309	8.90	PPBV	100
16) DICHLOROFLUOROMETHANE	4.289	67	1019855	8.67	PPBV	100
17) ACETONITRILE	4.479	41	252958	7.21	PPBV	100
18) ACROLEIN	4.571	56	155868	8.51	PPBV	100
19) FREON 123	4.589	83	1157483m	9.93	PPBV	
20) FREON 123A	4.632	117	701588	9.69	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1209415	7.29	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	906732	7.67	PPBV	100
23) ACETONE	4.675	58	180987	8.59	PPBV	100
24) PENTANE	5.072	42	444915	7.13	PPBV	100
25) IODOMETHANE	5.256	142	1538968	10.06	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	488317	8.97	PPBV	100
27) CARBON DISULFIDE	5.672	76	1343447	9.35	PPBV	100
28) ETHANOL	4.320	45	168471	7.22	PPBV	100
29) BROMOETHENE	4.479	106	508476	10.65	PPBV	100
30) ACRYLONITRILE	5.042	52	310247	8.54	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	424759	8.70	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	218615	9.74	PPBV	100
33) FREON 113	5.641	151	865046	9.06	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	496473	8.93	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.378	59	968852	8.31	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.479	73	1323434	9.62	PPBV	100
37) TETRAHYDROFURAN	7.856	72	199227	10.87	PPBV	100
38) HEXANE	7.385	57	758015	9.88	PPBV	100
39) VINYL ACETATE	6.565	86	82624	9.01	PPBV	100
40) 1,1-DICHLOROETHANE	6.424	63	931030	9.18	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	216147	11.31	PPBV	100
42) cis-1,2-DICHLOROETHYLENE	7.195	96	529578	9.24	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	234936	11.29	PPBV	100
44) ETHYL ACETATE	7.421	61	169787m	10.80	PPBV	
45) METHYL ACRYLATE	7.409	55	948651	10.40	PPBV	100
46) CHLOROFORM	7.476	83	1113306	9.51	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	877406	9.73	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.406	97	1165134	9.11	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1296040	9.17	PPBV	100
50)	1,2-DICHLOROETHANE	8.174	62	793795	9.55	PPBV	100
52)	BENZENE	8.853	78	1461752	10.93	PPBV	100
53)	CYCLOHEXANE	9.110	84	573806	10.80	PPBV	100
54)	2,3-DIMETHYLPENTANE	9.348	71	294377	10.99	PPBV	100
55)	TRICHLOROETHYLENE	9.887	95	733457	10.30	PPBV	100
56)	1,2-DICHLOROPROPANE	9.654	63	587338	10.35	PPBV	100
57)	DIBROMOMETHANE	9.630	174	777595	9.96	PPBV	100
58)	ETHYL ACRYLATE	9.679	55	1150308	11.15	PPBV	100
59)	BROMODICHLOROMETHANE	9.850	83	1291376	10.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2382864	10.46	PPBV	100
61)	1,4-DIOXANE	9.899	88	335180	12.16	PPBV	100
62)	HEPTANE	10.187	43	809108	9.62	PPBV	100
63)	METHYL METHACRYLATE	10.107	69	505563	12.20	PPBV	100
64)	METHYL ISOBUTYL KETONE	10.792	58	480676	11.29	PPBV	100
65)	cis-1,3-DICHLOROPROPENE	10.749	75	988291	11.23	PPBV	87
66)	TOLUENE	11.722	92	1078428	11.29	PPBV	100
67)	1,3-DICHLOROPROPANE	11.753	76	866163m	10.80	PPBV	
68)	trans-1,3-DICHLOROPROPENE	11.282	75	890794	11.02	PPBV	100
69)	1,1,2-TRICHLOROETHANE	11.447	83	593800	11.35	PPBV	100
71)	2-HEXANONE	12.010	58	708433	12.76	PPBV	100
72)	ETHYL METHACRYLATE	12.022	69	915611	13.03	PPBV	100
73)	TETRACHLOROETHYLENE	12.872	164	851797	10.39	PPBV	100
74)	DIBROMOCHLOROMETHANE	12.150	129	1470928	10.66	PPBV	100
75)	1,2-DIBROMOETHANE	12.395	107	1182589	11.73	PPBV	100
76)	OCTANE	12.744	43	1128893	9.72	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	951903	10.52	PPBV	100
78)	CHLOROBENZENE	13.582	112	1532486	10.30	PPBV	100
79)	ETHYLBENZENE	13.986	91	2426187	11.38	PPBV	100
80)	m,p-XYLENE	14.181	106	1894377	23.39	PPBV	100
81)	o-XYLENE	14.683	106	921132	12.40	PPBV	100
82)	STYRENE	14.567	104	1485661	13.06	PPBV	100
83)	NONANE	14.934	43	1167938	10.14	PPBV	100
84)	BROMOFORM	14.249	173	1553327	10.92	PPBV	100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1606320	12.27	PPBV	100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1108756	9.96	PPBV	100
88)	ISOPROPYLBENZENE	15.295	105	2737713	11.04	PPBV	100
89)	BROMOBENZENE	15.374	77	1323542	10.19	PPBV	100
90)	2-CHLOROTOLUENE	15.772	126	723050	10.93	PPBV	100
91)	n-PROPYLBENZENE	15.809	120	754817	11.44	PPBV	100
92)	4-ETHYLTOLUENE	15.962	105	2719805	12.20	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2300675	11.13	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.194	118	1195904	12.09	PPBV	100
95)	tert-BUTYLBENZENE	16.433	134	523380	12.22	PPBV	100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2423323	12.17	PPBV	100
97)	m-DICHLOROBENZENE	16.580	146	1782947	11.15	PPBV	100
98)	BENZYL CHLORIDE	16.567	91	2316167	12.73	PPBV	100
99)	p-DICHLOROBENZENE	16.647	146	1775311	10.72	PPBV	100
100)	sec-BUTYLBENZENE	16.696	134	618616	11.27	PPBV	100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2427524	11.39	PPBV	100
102)	p-ISOPROPYLTOLUENE	16.855	134	746734	11.87	PPBV	100
103)	o-DICHLOROBENZENE	16.977	146	1665215	10.31	PPBV	100
104)	n-BUTYLBENZENE	17.259	134	703045	12.21	PPBV	100
105)	HEXACHLOROETHANE	17.607	117	1210974	11.22	PPBV	100
106)	HEXACHLOROBUTADIENE	18.965	225	1667734	9.84	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1638870	14.54	PPBV	100
108)	NAPHTHALENE	18.660	128	3829842	14.35	PPBV	100
110)	TVHC as equiv Pentane	5.072	TIC	2959189	8.08	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

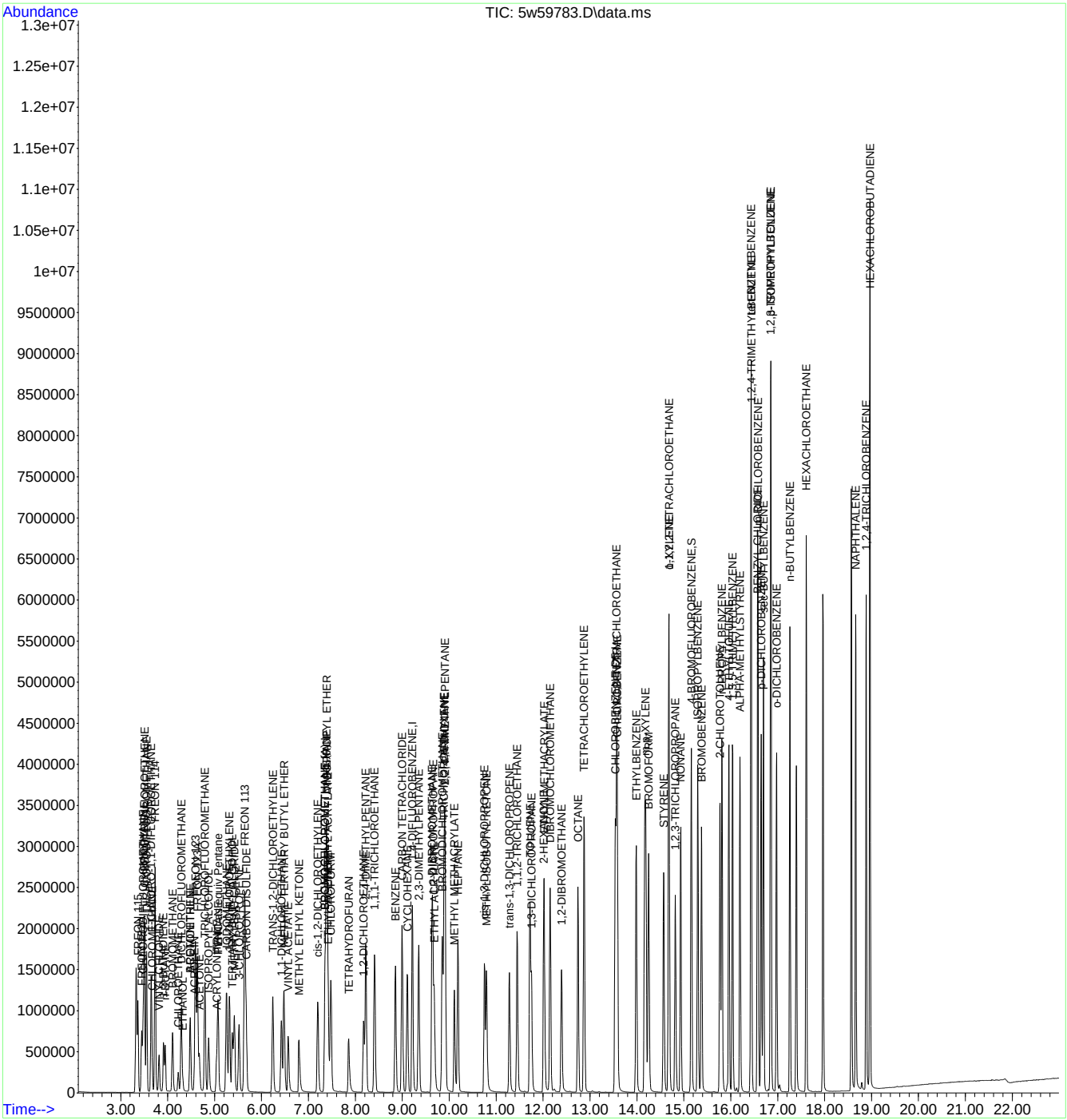
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

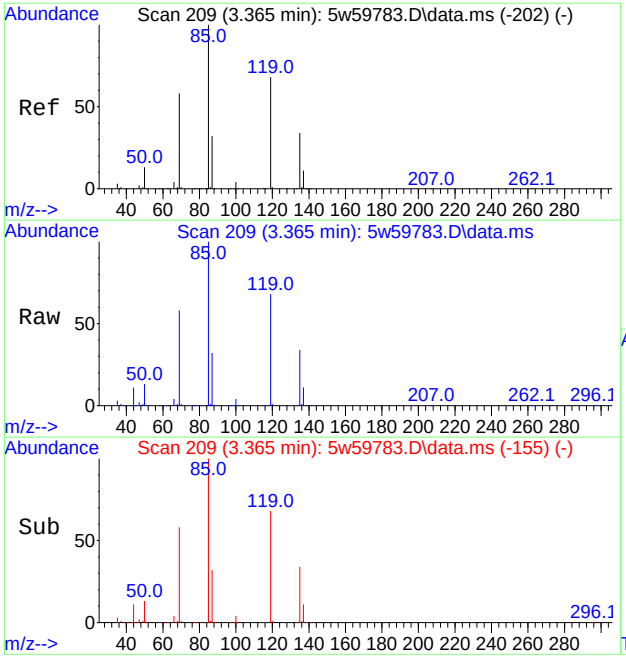
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

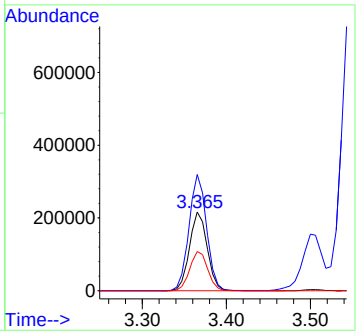


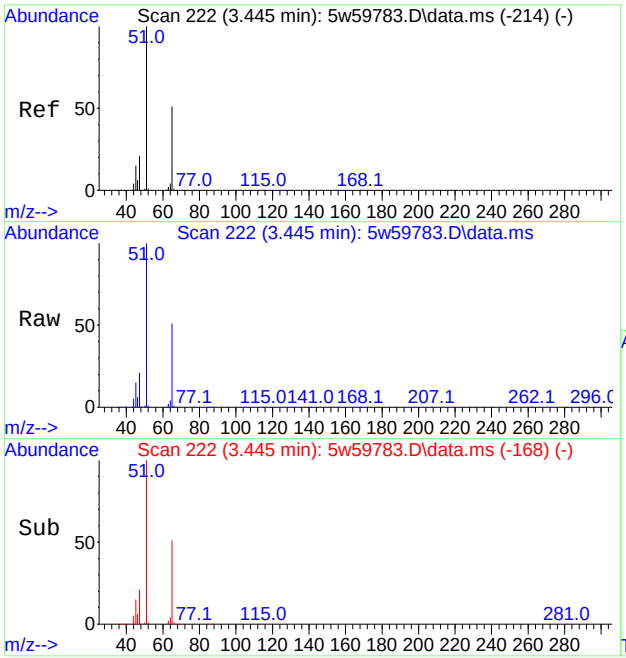


#2
FREON 115
Concen: 5.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:119 Resp: 318291

Ion	Ratio	Lower	Upper
119	100		
85	146.2	116.2	176.2
135	50.6	20.6	80.6

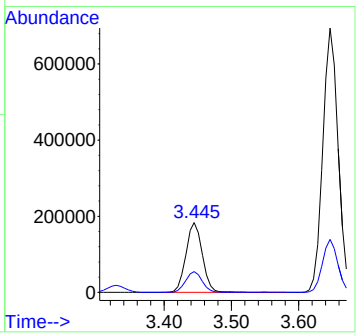


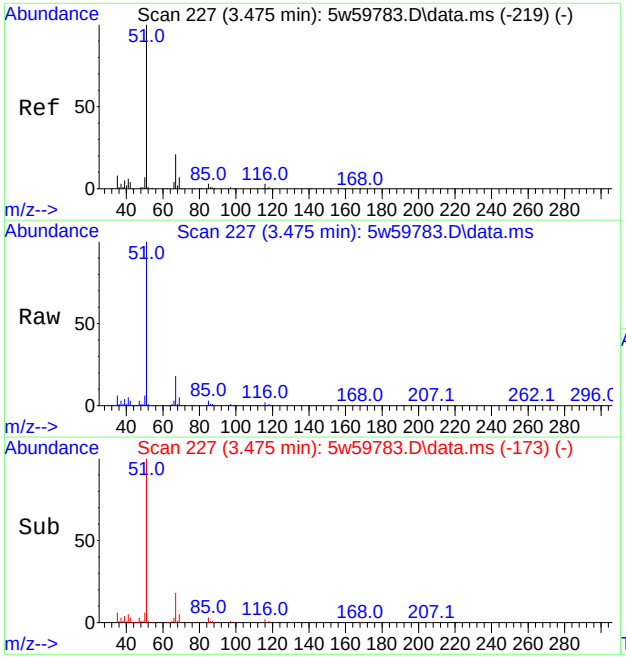


#3
FREON 152A
Concen: 8.83 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 311212

Ion	Ratio	Lower	Upper
65	100		
45	30.0	0.0	60.0

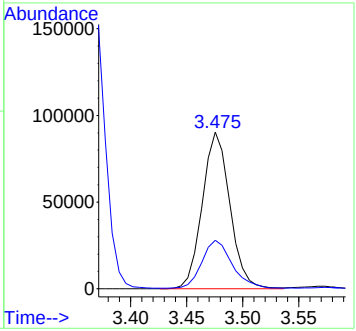


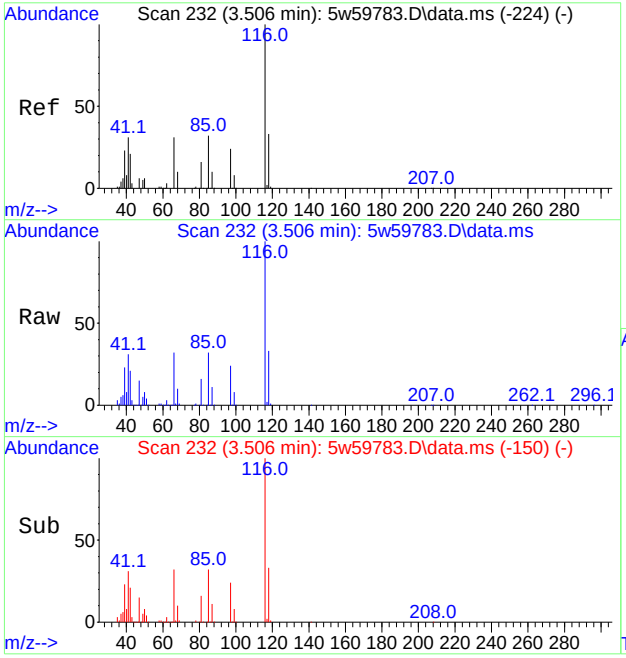


#4
CHLORODIFLUOROMETHANE
Concen: 9.59 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 154727

Ion	Ratio	Lower	Upper
67	100		
69	31.0	1.0	61.0

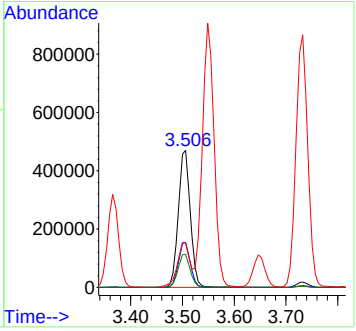


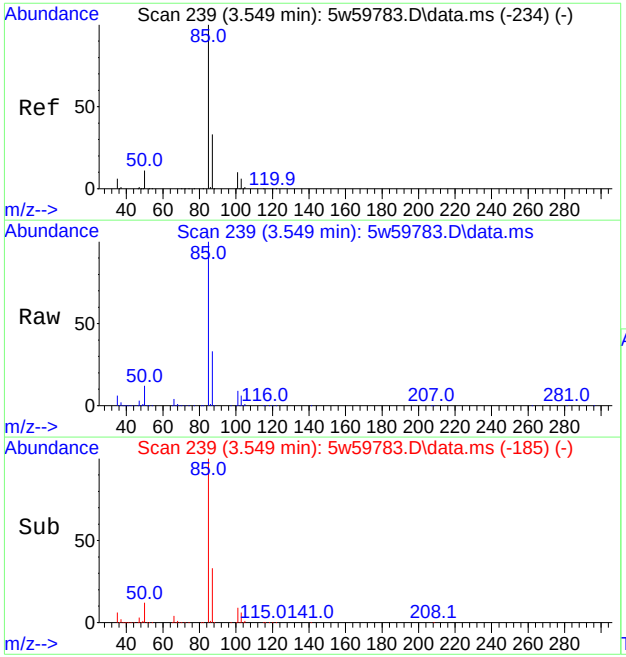


#5
CHLOROTRIFLUOROETHENE
Concen: 10.03 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:116 Resp: 762524

Ion	Ratio	Lower	Upper
116	100		
118	32.7	22.9	42.5
85	33.9	23.7	44.1
97	24.3	17.0	31.6

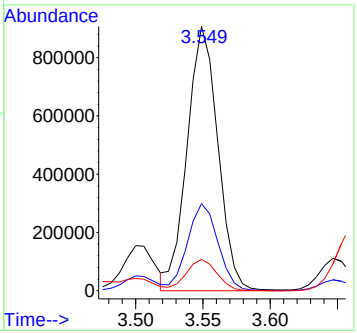


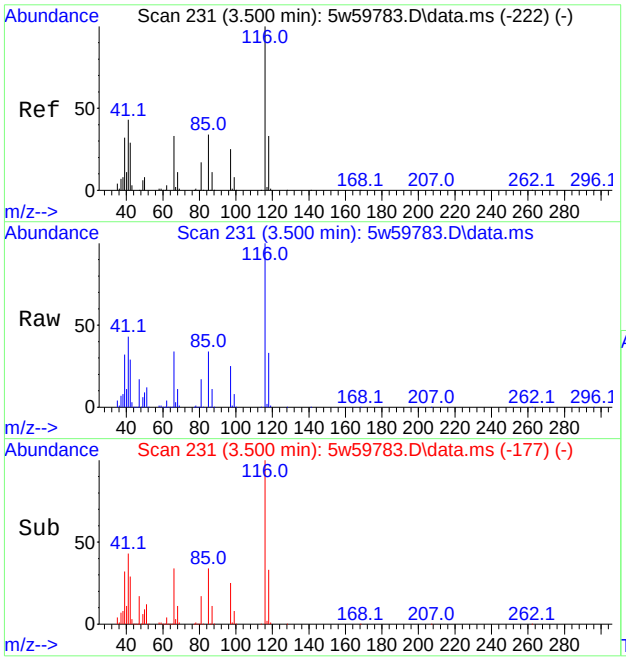


#6
DICHLORODIFLUOROMETHANE
Concen: 9.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1445515

Ion	Ratio	Lower	Upper
85	100		
87	32.5	2.5	62.5
50	11.7	0.0	41.7

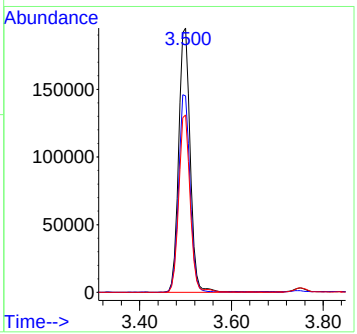


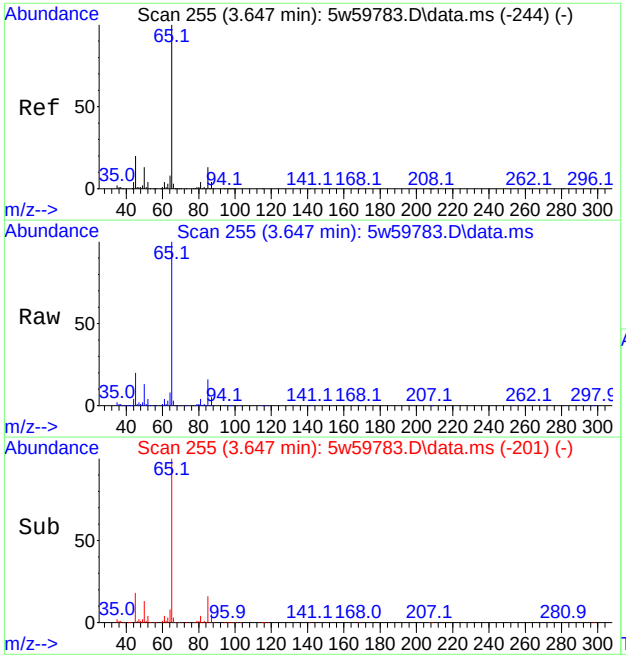


#7
PROPYLENE
Concen: 8.81 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 343468

Ion	Ratio	Lower	Upper
41	100		
39	75.1	45.1	105.1
42	66.3	36.3	96.3

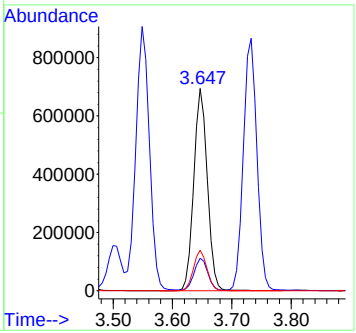


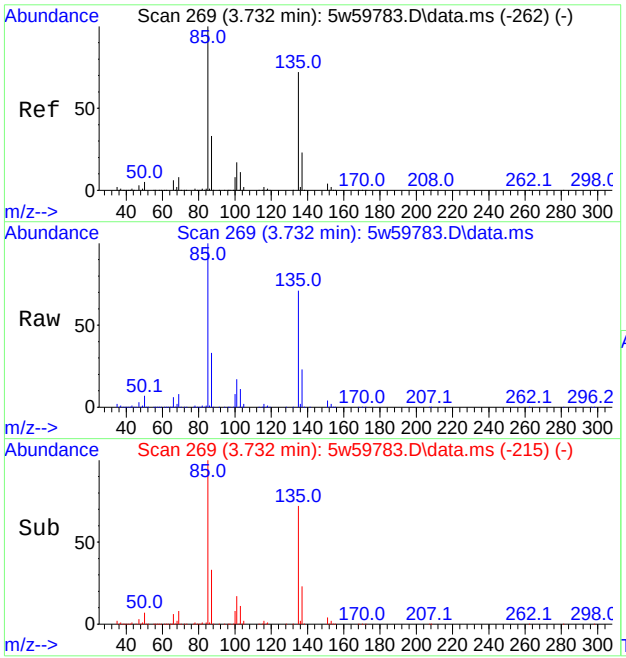


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 8.04 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 1103467

Ion	Ratio	Lower	Upper
65	100		
85	16.4	11.3	21.1
45	20.0	14.0	26.0

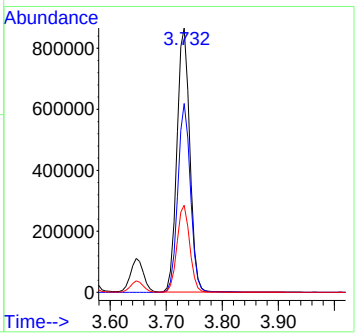


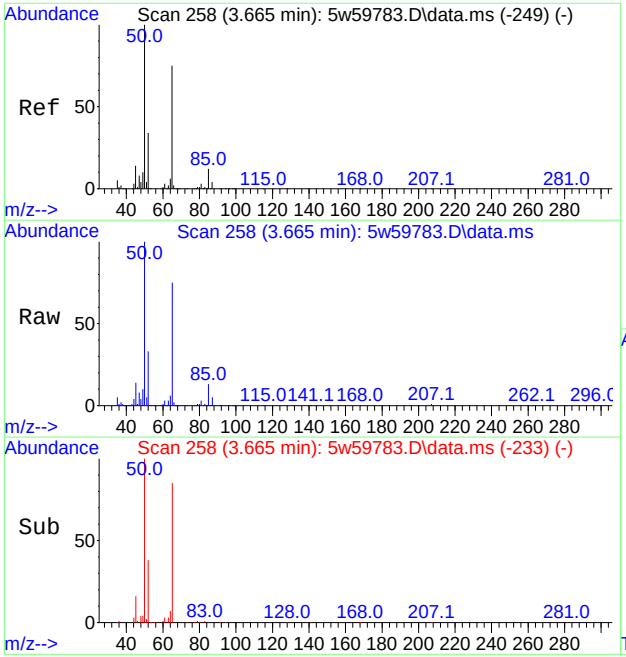


#9
FREON 114
Concen: 10.56 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1375524

Ion	Ratio	Lower	Upper
85	100		
135	70.5	40.5	100.5
87	33.0	3.0	63.0

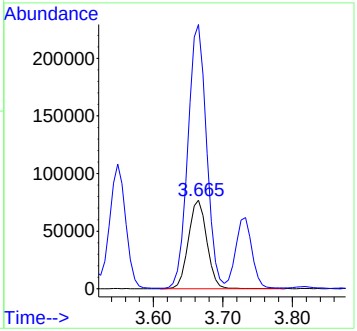


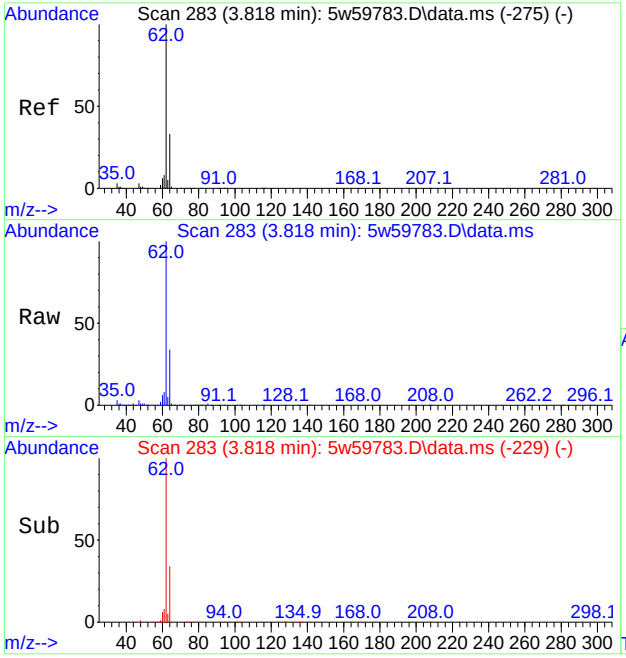


#10
CHLOROMETHANE
Concen: 8.80 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 141881

Ion	Ratio	Lower	Upper
52	100		
50	297.9	267.9	327.9

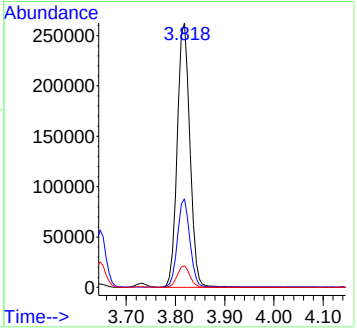


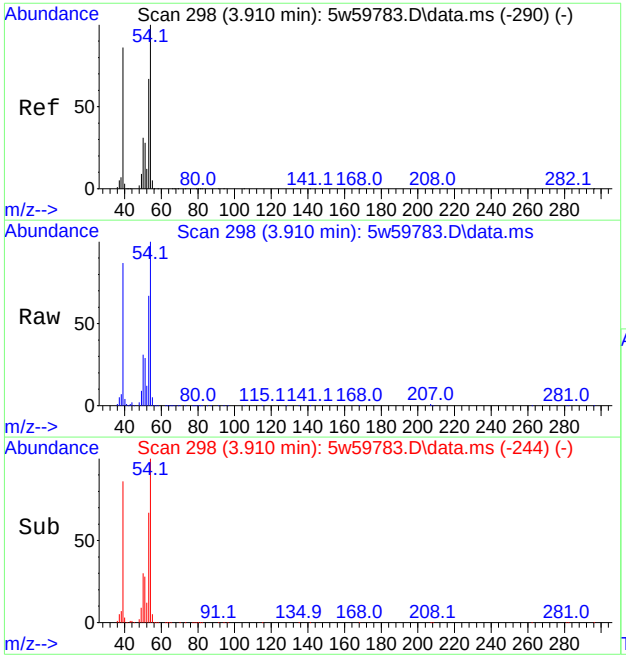


#11
VINYL CHLORIDE
Concen: 9.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 472875

Ion	Ratio	Lower	Upper
62	100		
64	33.6	3.6	63.6
61	8.2	0.0	38.2

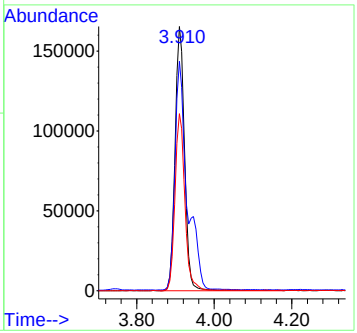


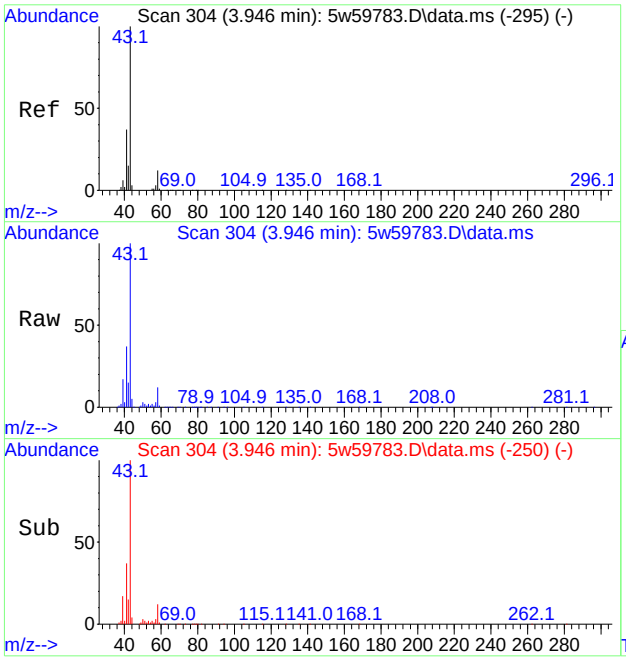


#12
1,3-BUTADIENE
Concen: 8.35 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 54 Resp: 284232

Ion	Ratio	Lower	Upper
54	100		
39	112.0	82.0	142.0
53	70.2	40.2	100.2

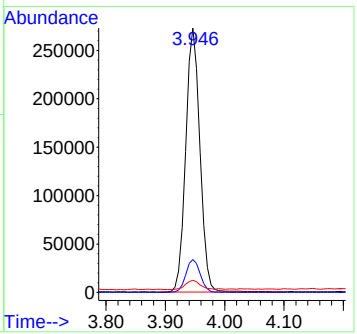


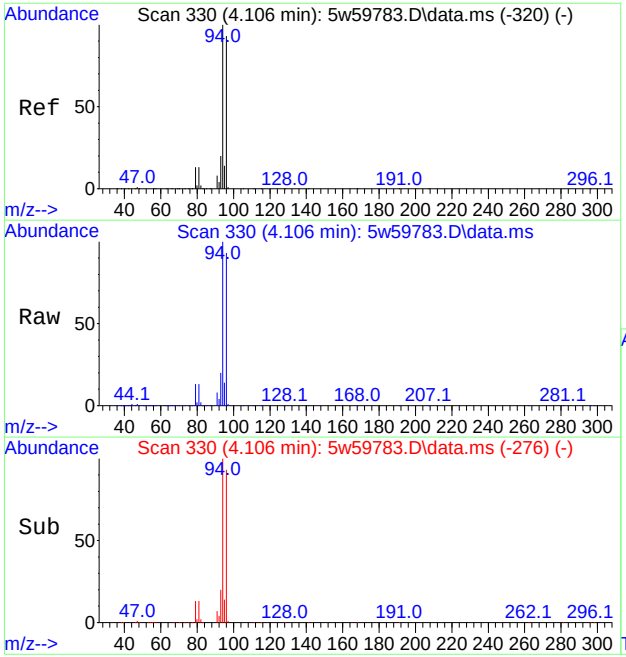


#13
n-BUTANE
Concen: 7.37 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 454503

Ion	Ratio	Lower	Upper
43	100		
58	12.6	0.0	42.6
44	4.9	0.0	34.9

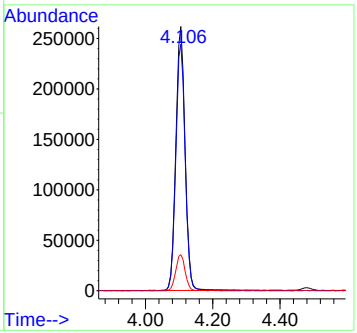


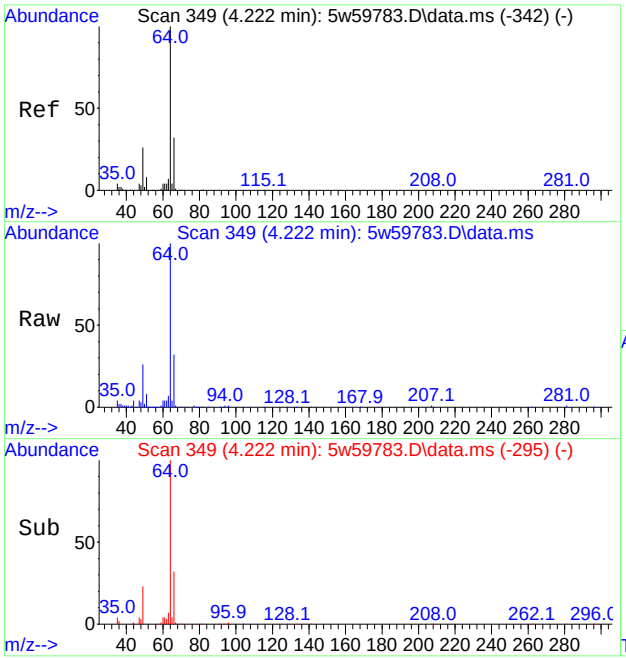


#14
BROMOMETHANE
Concen: 10.05 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 94 Resp: 500092

Ion	Ratio	Lower	Upper
94	100		
96	95.3	65.3	125.3
95	14.1	0.0	44.1

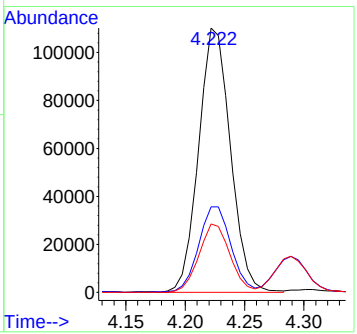


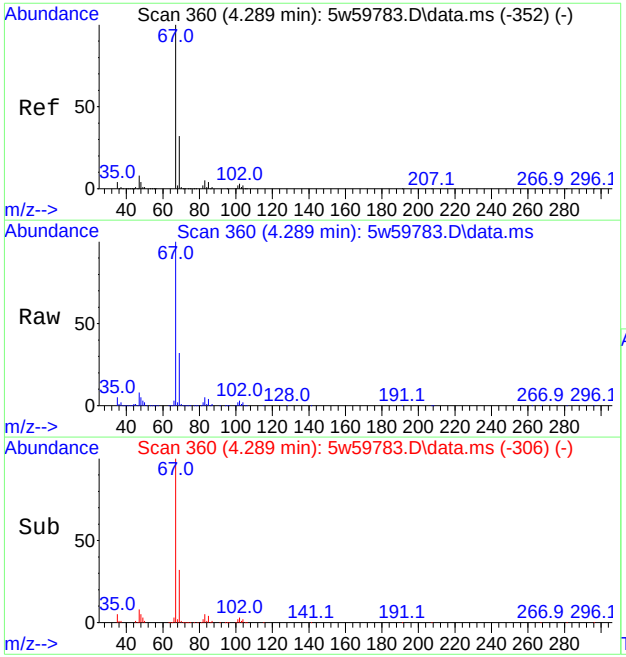


#15
CHLOROETHANE
Concen: 8.90 PPBV
RT: 4.222 min Scan# 349
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 64 Resp: 205309

Ion	Ratio	Lower	Upper
64	100		
66	33.1	3.1	63.1
49	25.3	0.0	55.3

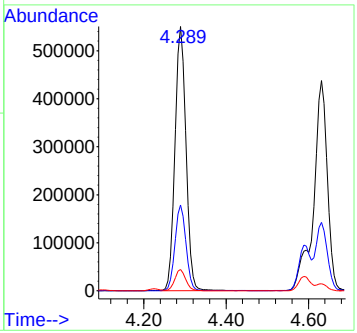


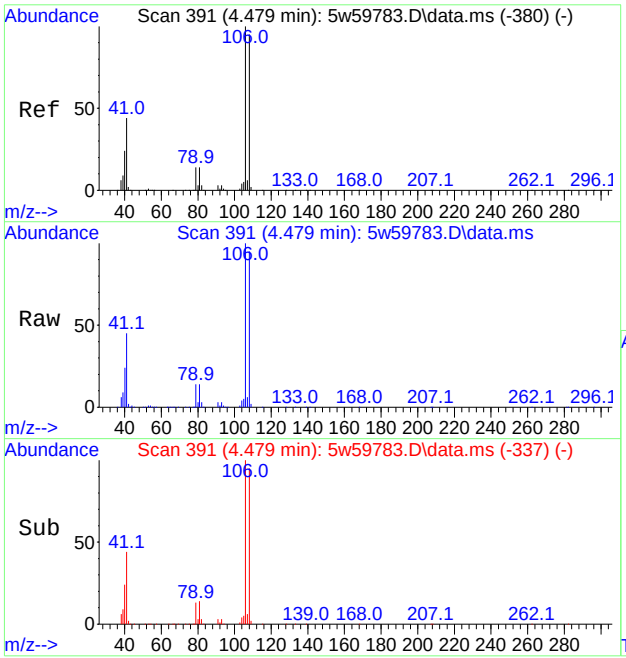


#16
DICHLOROFLUOROMETHANE
Concen: 8.67 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 1019855

Ion	Ratio	Lower	Upper
67	100		
69	32.5	22.7	42.3
47	8.0	5.6	10.4

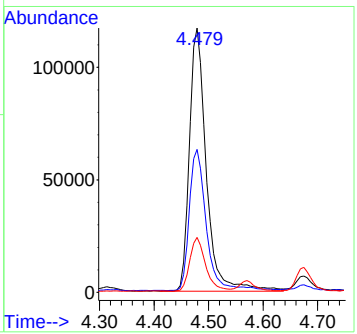


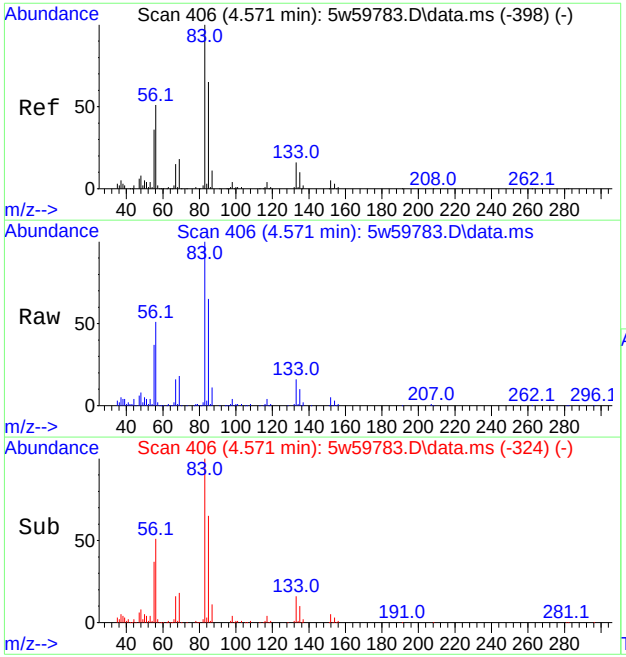


#17
ACETONITRILE
Concen: 7.21 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 252958

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.1	13.4	24.8

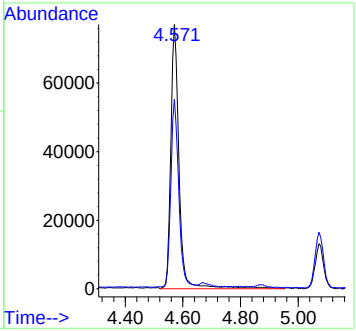


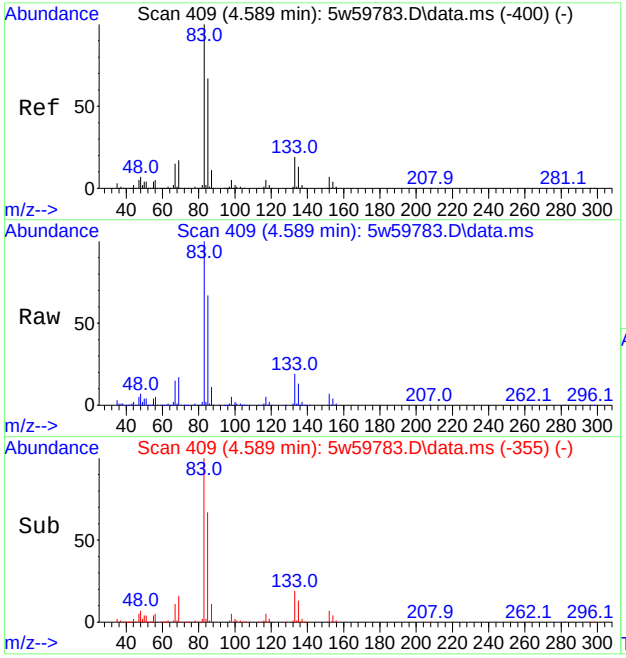


#18
ACROLEIN
Concen: 8.51 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 56 Resp: 155868

Ion	Ratio	Lower	Upper
56	100		
55	66.6	46.6	86.6

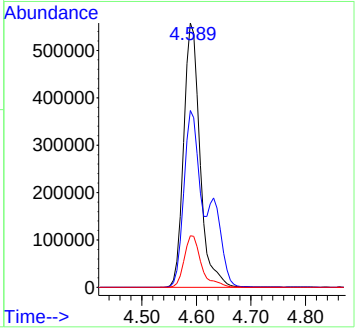


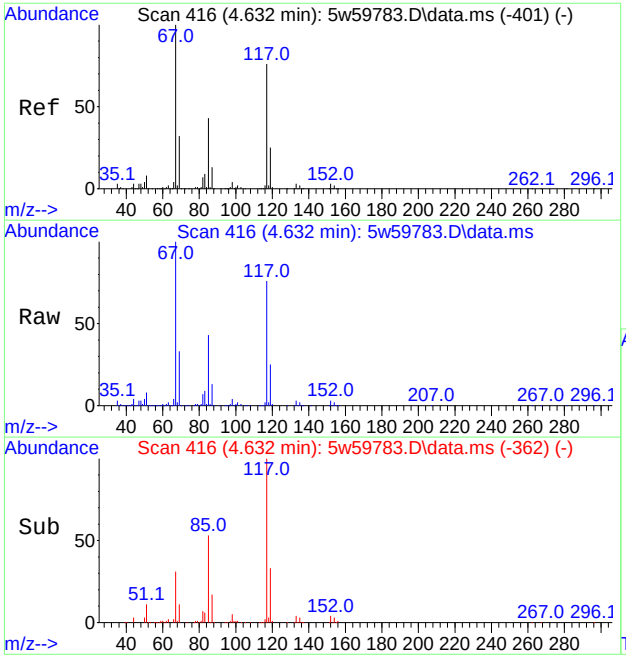


#19
FREON 123
Concen: 9.93 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1157483

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.0	94.0
133	20.7	0.0	50.7

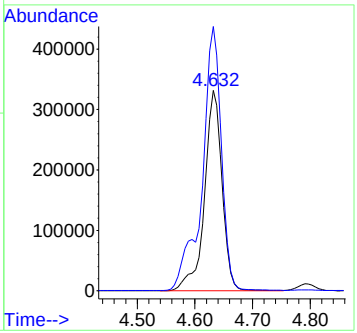


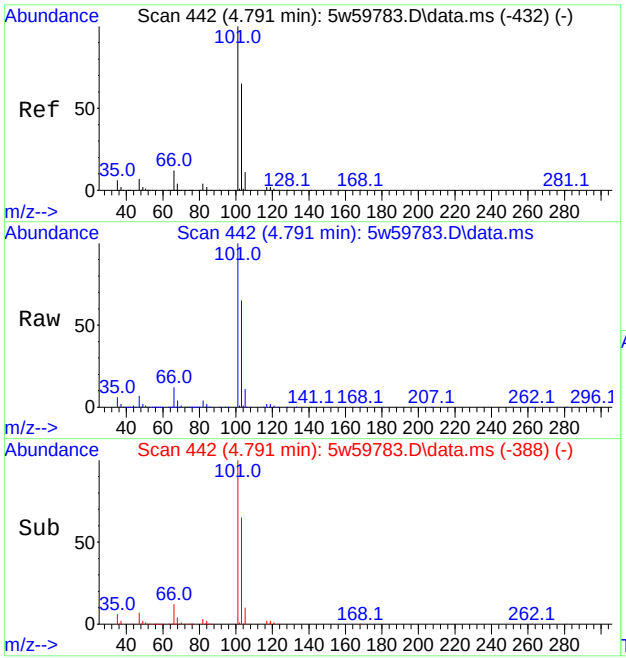


#20
FREON 123A
Concen: 9.69 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 701588

Ion	Ratio	Lower	Upper
117	100		
67	144.6	114.6	174.6

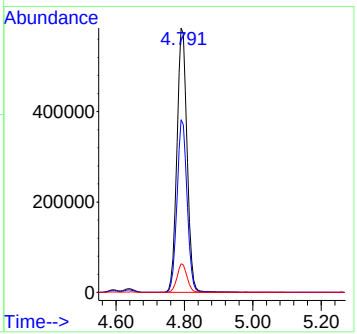


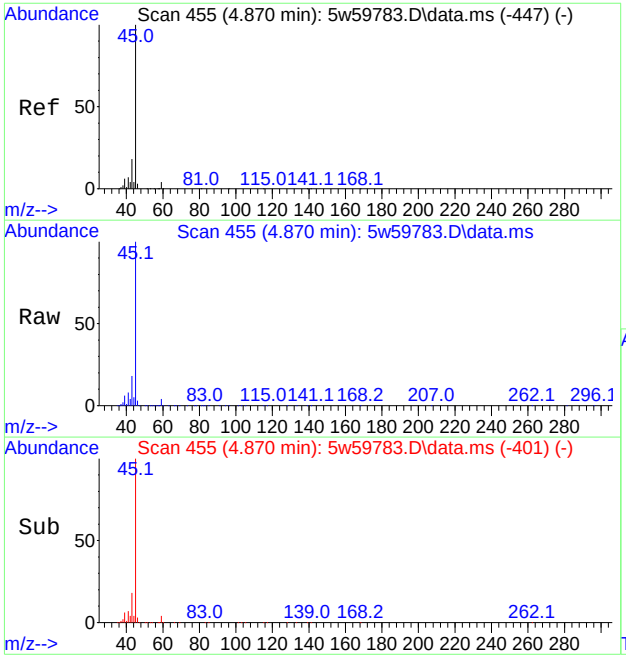


#21
TRICHLOROFLUOROMETHANE
Concen: 7.29 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:101 Resp: 1209415

Ion	Ratio	Lower	Upper
101	100		
103	65.0	35.0	95.0
105	10.7	0.0	40.7

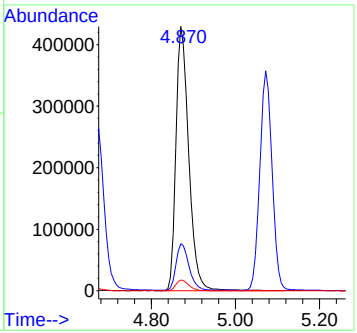


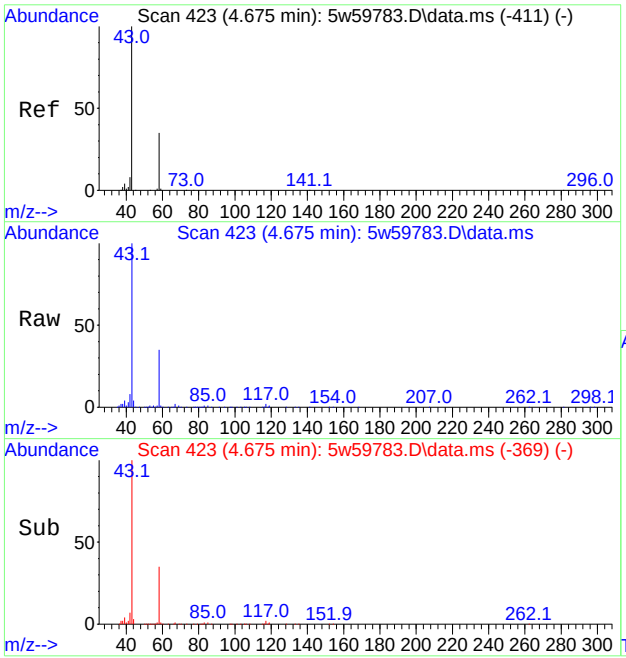


#22
ISOPROPYL ALCOHOL
Concen: 7.67 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 906732

Ion	Ratio	Lower	Upper
45	100		
43	17.8	0.0	47.8
59	4.1	0.0	34.1

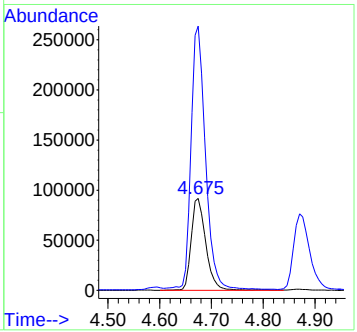


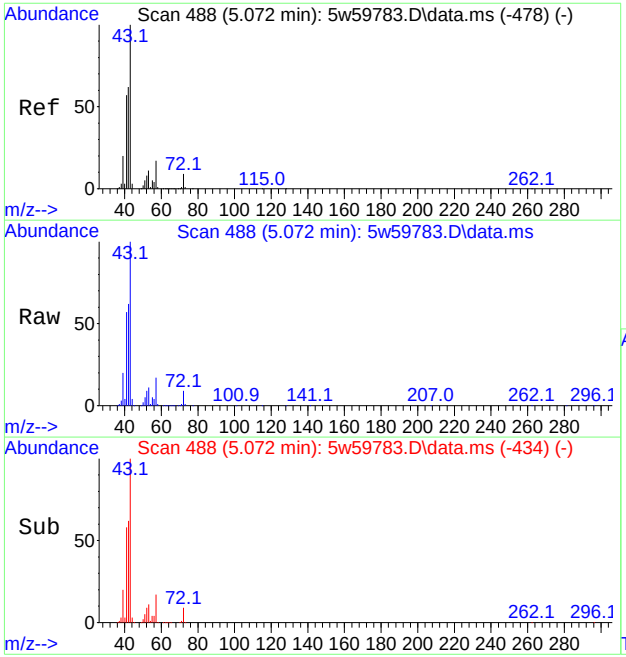


#23
ACETONE
Concen: 8.59 PPBV
RT: 4.675 min Scan# 423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 180987

Ion	Ratio	Lower	Upper
58	100		
43	282.3	252.1	312.1

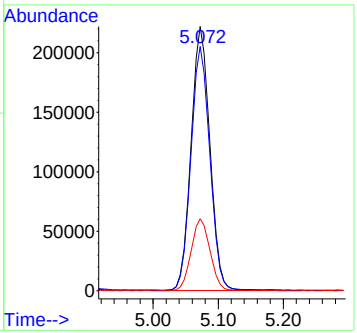


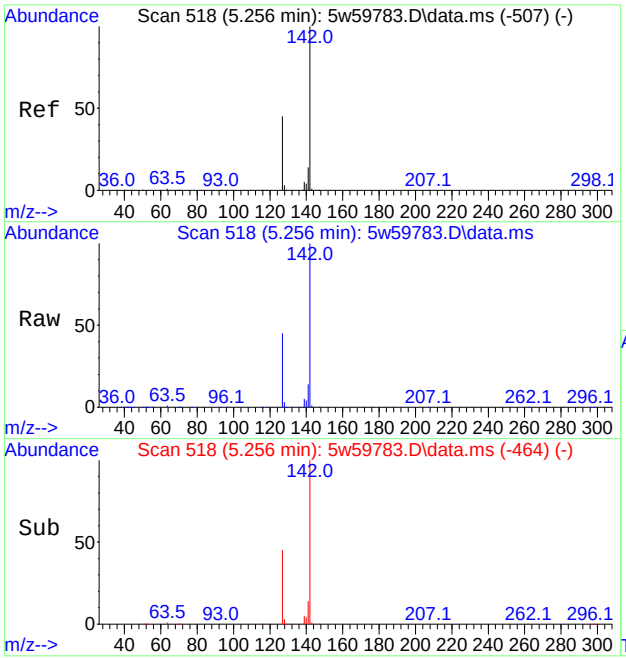


#24
PENTANE
Concen: 7.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 42 Resp: 444915

Ion	Ratio	Lower	Upper
42	100		
41	92.3	62.3	122.3
57	27.7	0.0	57.7

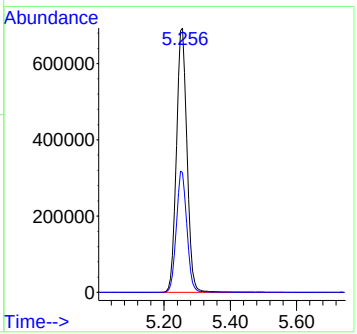


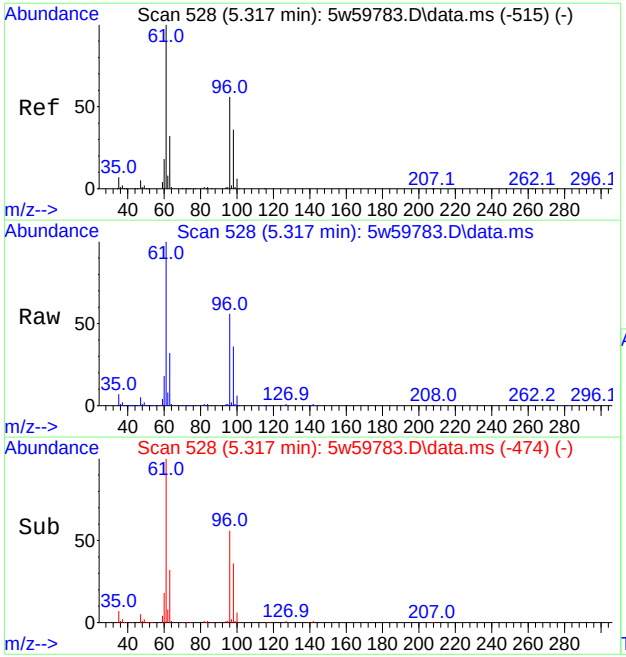


#25
IODOMETHANE
Concen: 10.06 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:142 Resp: 1538968

Ion	Ratio	Lower	Upper
142	100		
127	46.0	16.0	76.0

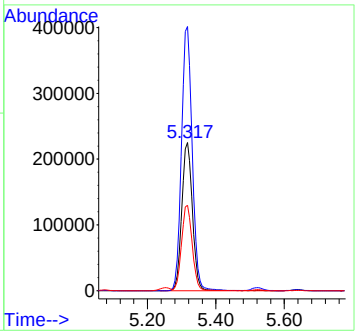


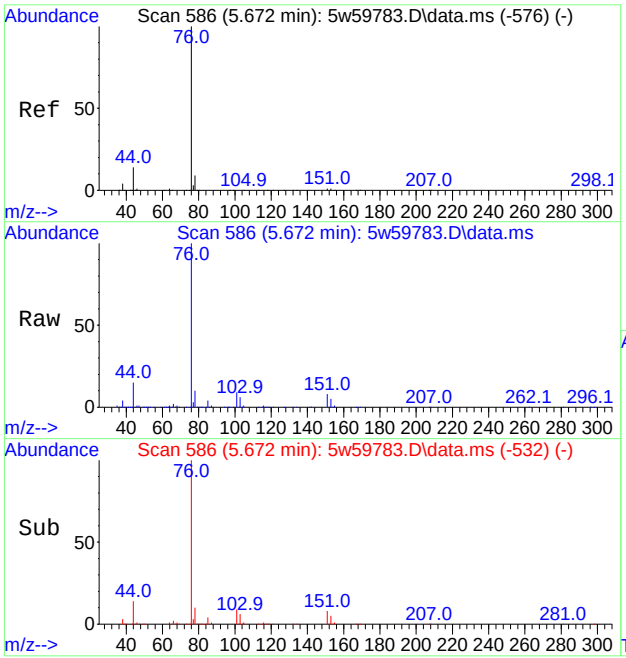


#26
1,1-DICHLOROETHYLENE
Concen: 8.97 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 488317

Ion	Ratio	Lower	Upper
96	100		
61	178.5	148.5	208.5
63	57.4	27.4	87.4

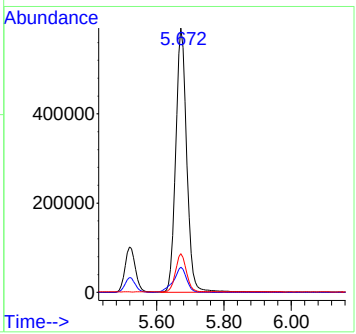


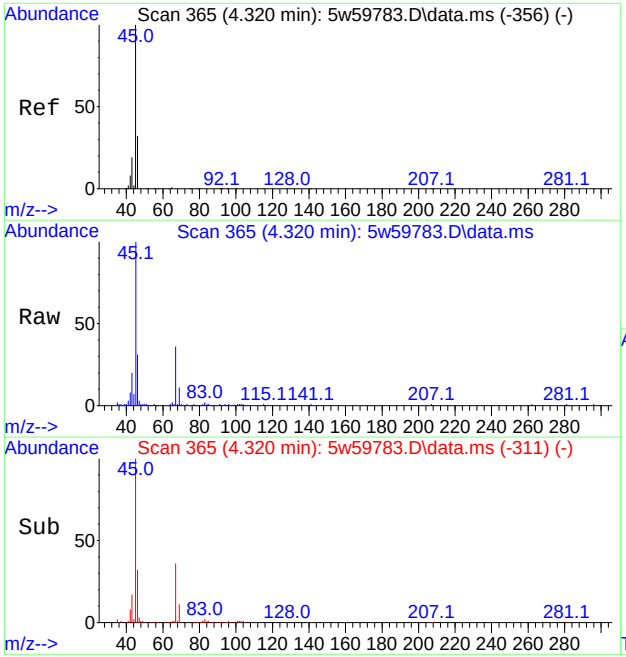


#27
CARBON DISULFIDE
Concen: 9.35 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 1343447

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

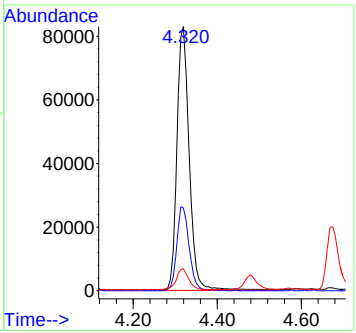


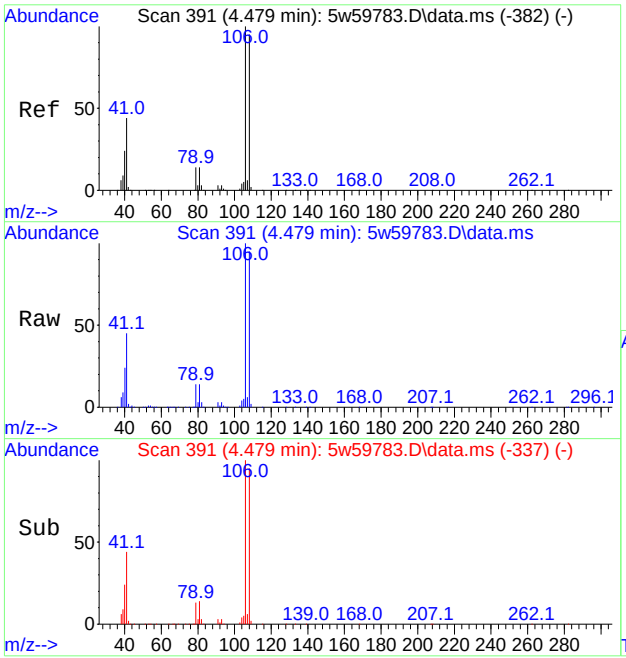


#28
ETHANOL
Concen: 7.22 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 168471

Ion	Ratio	Lower	Upper
45	100		
46	32.0	2.0	62.0
42	8.5	0.0	38.5

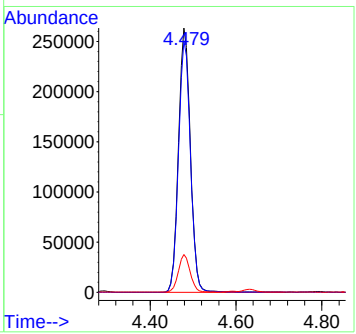


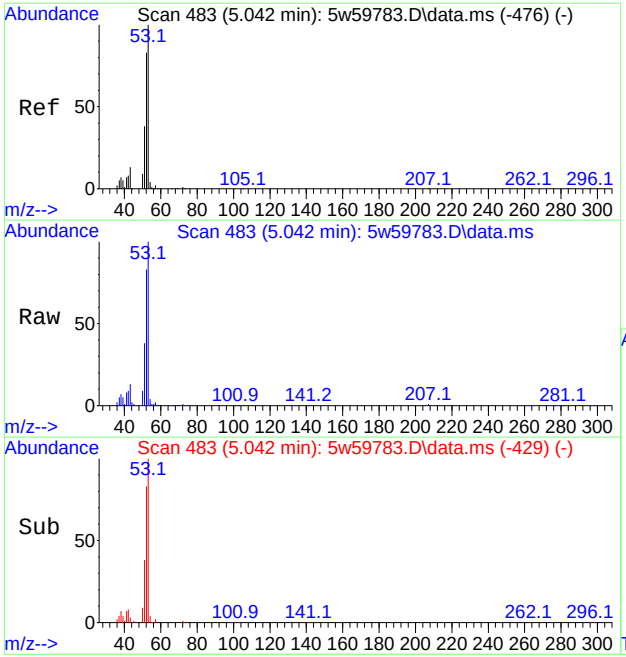


#29
BROMOETHENE
Concen: 10.65 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 508476

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	13.9	0.0	44.0

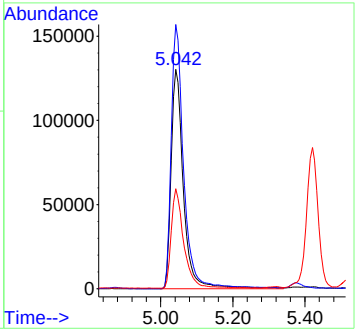


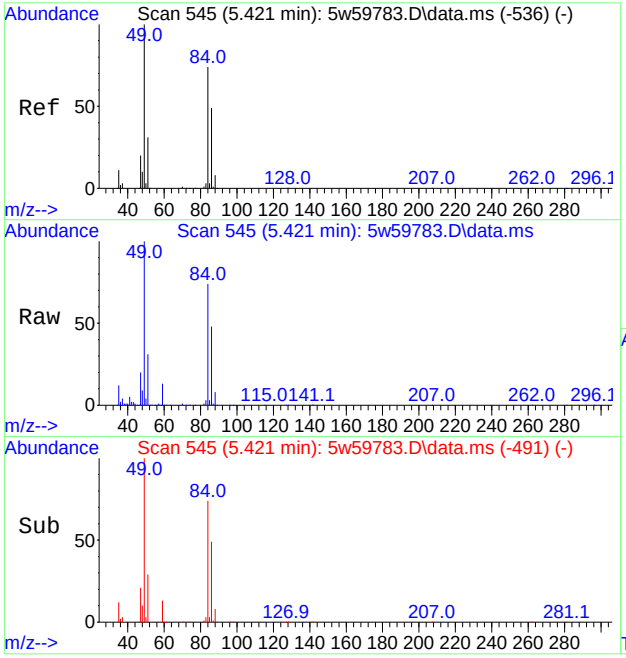


#30
ACRYLONITRILE
Concen: 8.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 310247

Ion	Ratio	Lower	Upper
52	100		
53	122.6	85.8	159.4
51	46.2	32.3	59.9

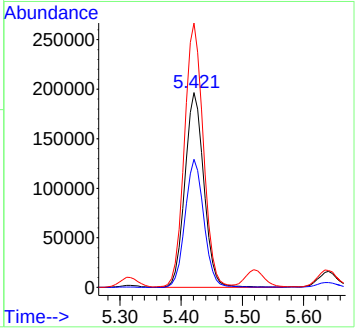


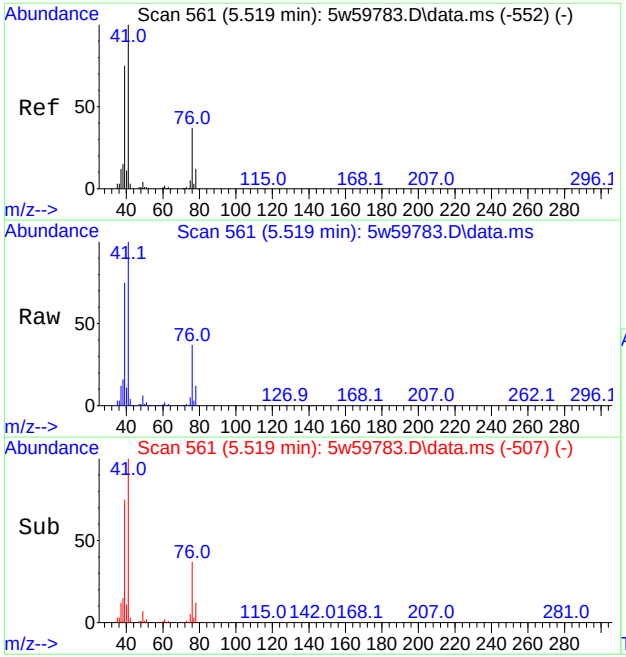


#31
METHYLENE CHLORIDE
Concen: 8.70 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 424759

Ion	Ratio	Lower	Upper
84	100		
86	65.2	35.2	95.2
49	135.3	105.3	165.3

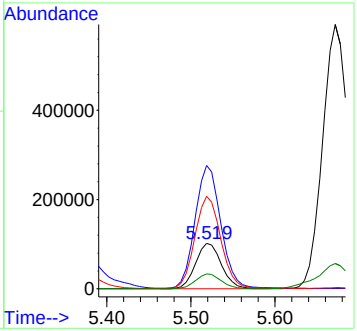


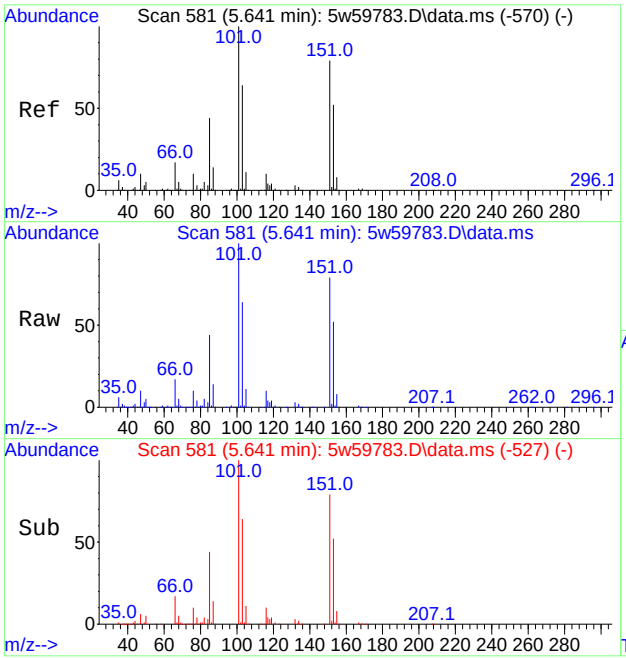


#32
3-CHLOROPROPENE
Concen: 9.74 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 218615

Ion	Ratio	Lower	Upper
76	100		
41	270.8	240.9	300.9
39	203.6	173.3	233.3
78	32.8	2.8	62.8

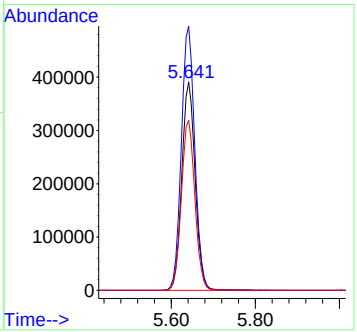


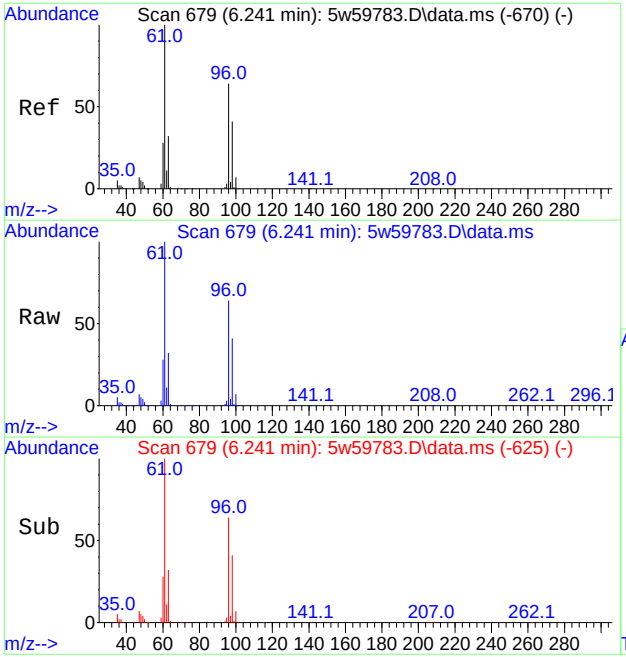


#33
FREON 113
Concen: 9.06 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:151 Resp: 865046

Ion	Ratio	Lower	Upper
151	100		
101	127.5	97.5	157.5
103	82.5	52.5	112.5

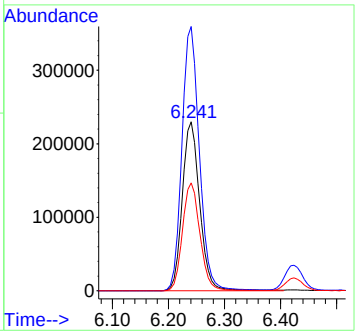


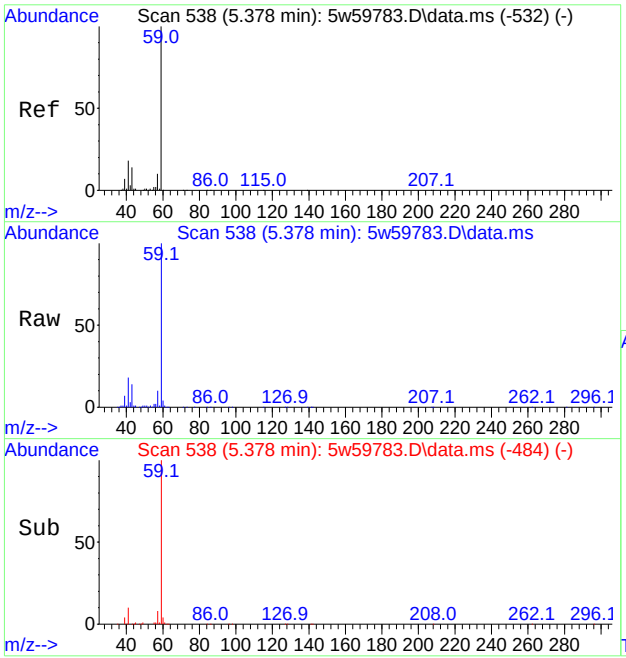


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 8.93 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 496473

Ion	Ratio	Lower	Upper
96	100		
61	156.4	126.4	186.4
98	64.1	34.1	94.1

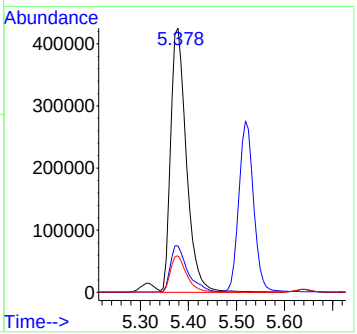


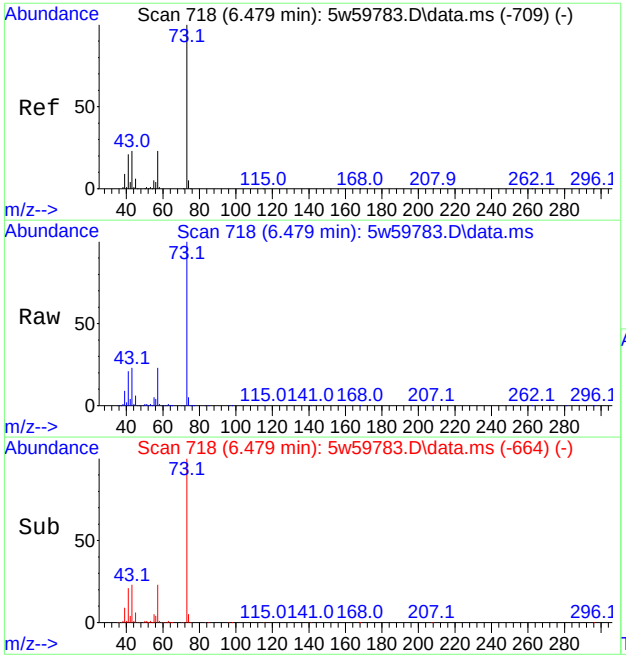


#35
TERTIARY BUTYL ALCOHOL
Concen: 8.31 PPBV
RT: 5.378 min Scan# 538
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 968852

Ion	Ratio	Lower	Upper
59	100		
41	19.3	0.0	49.3
43	14.1	0.0	44.1

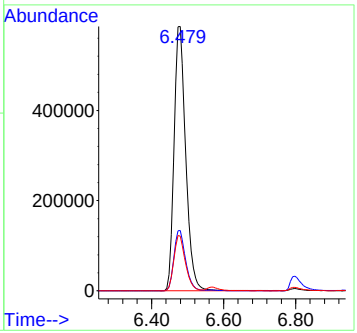


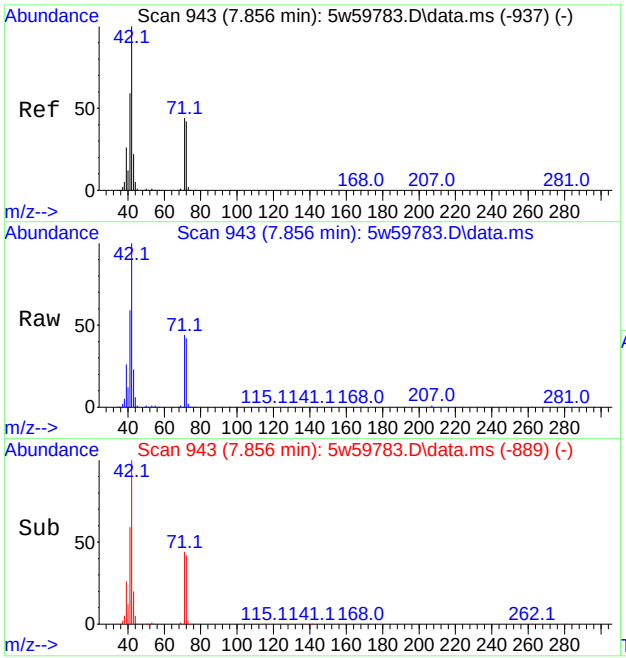


#36
METHYL TERTIARY BUTYL ETHER
Concen: 9.62 PPBV
RT: 6.479 min Scan# 718
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 73 Resp: 1323434

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.6	0.0	50.6

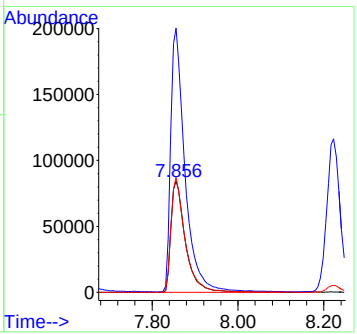


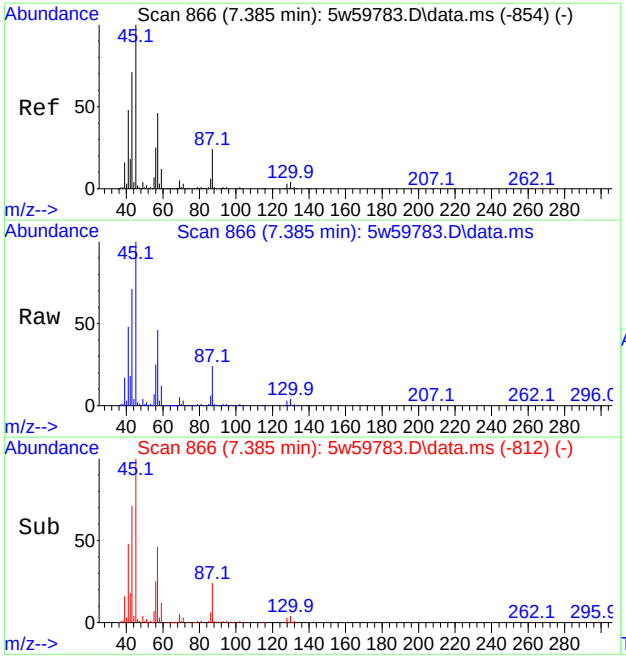


#37
TETRAHYDROFURAN
Concen: 10.87 PPBV
RT: 7.856 min Scan# 943
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 199227

Ion	Ratio	Lower	Upper
72	100		
42	232.4	202.4	262.4
71	101.1	71.1	131.1

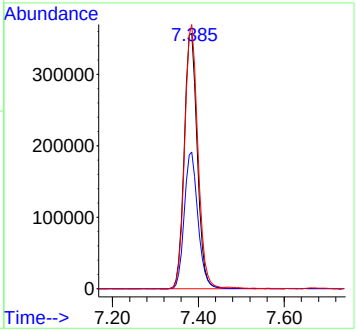


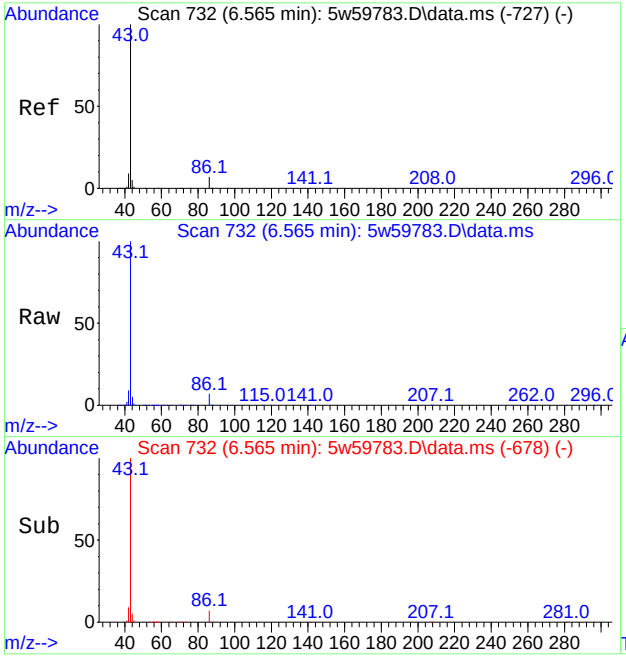


#38
HEXANE
Concen: 9.88 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 758015

Ion	Ratio	Lower	Upper
57	100		
56	55.9	25.9	85.9
41	104.7	74.7	134.7

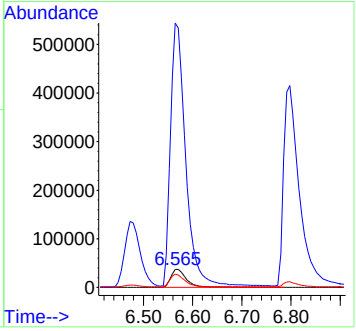


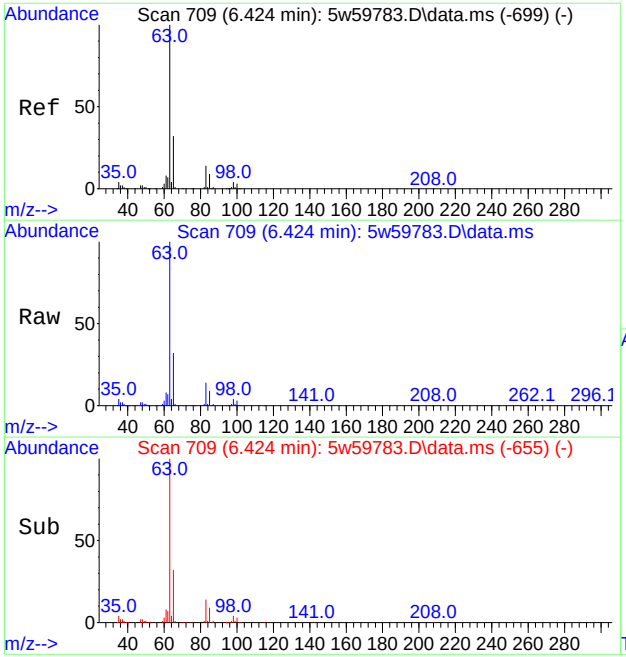


#39
VINYL ACETATE
Concen: 9.01 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 86 Resp: 82624

Ion	Ratio	Lower	Upper
86	100		
43	1409.7	1379.7	1439.7
44	66.9	36.9	96.9

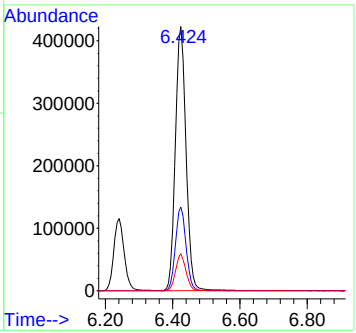


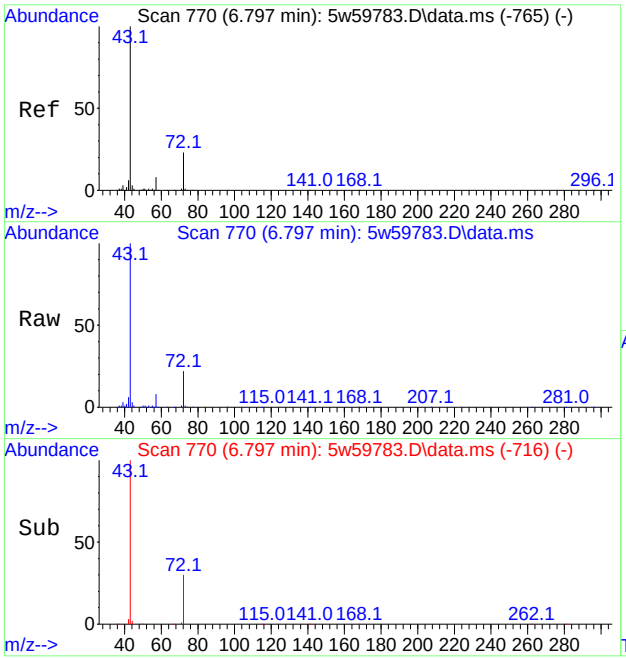


#40
1,1-DICHLOROETHANE
Concen: 9.18 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 931030

Ion	Ratio	Lower	Upper
63	100		
65	31.7	1.7	61.7
83	13.5	0.0	43.5

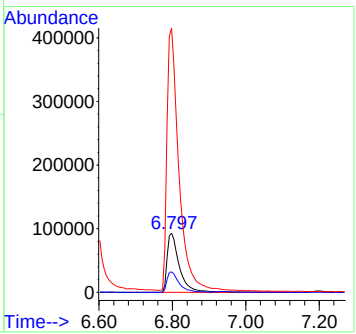


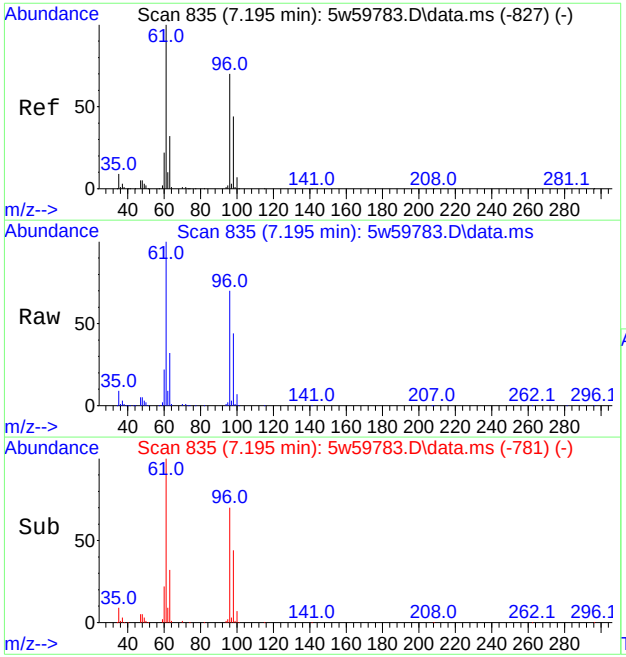


#41
METHYL ETHYL KETONE
Concen: 11.31 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 216147

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	445.9	415.9	475.9

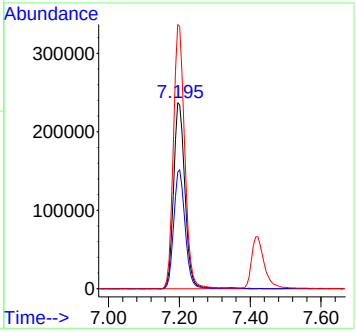


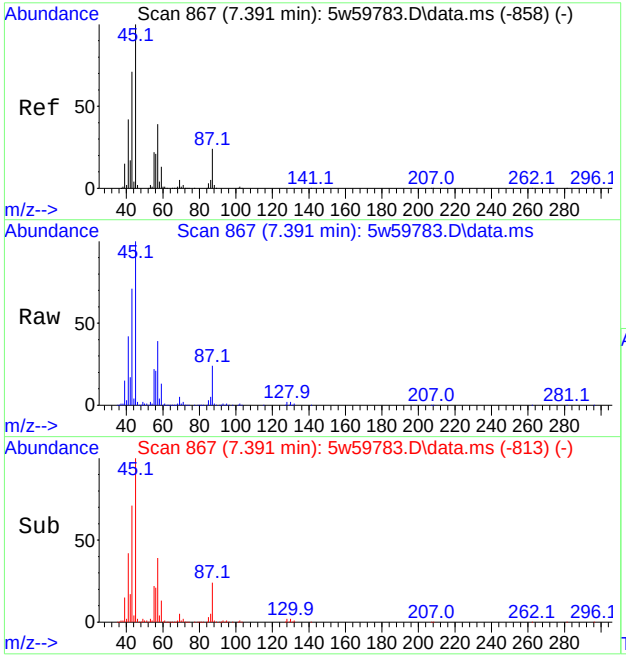


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.24 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 529578

Ion	Ratio	Lower	Upper
96	100		
98	64.0	34.0	94.0
61	141.5	111.5	171.5

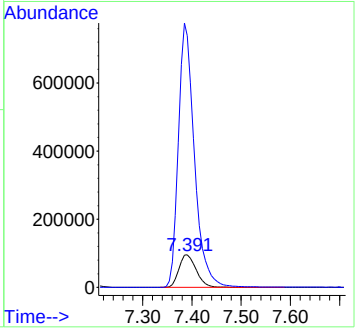


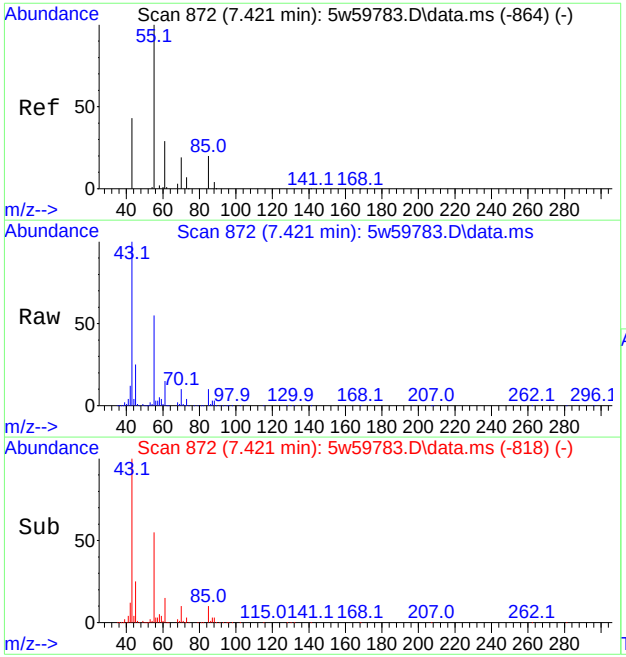


#43
DIISOPROPYL ETHER
Concen: 11.29 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 234936

Ion	Ratio	Lower	Upper
59	100		
45	750.9	720.9	780.9

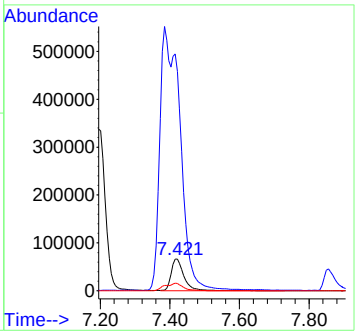


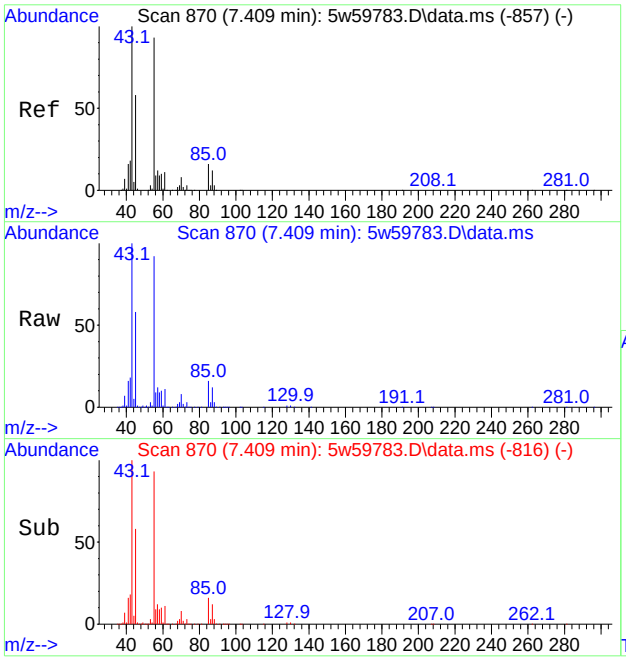


#44
ETHYL ACETATE
Concen: 10.80 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 61 Resp: 169787

Ion	Ratio	Lower	Upper
61	100		
43	590.5	581.3	641.3
88	34.5	4.5	64.5

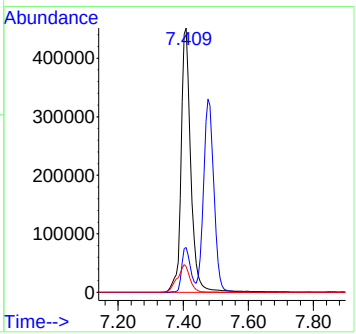


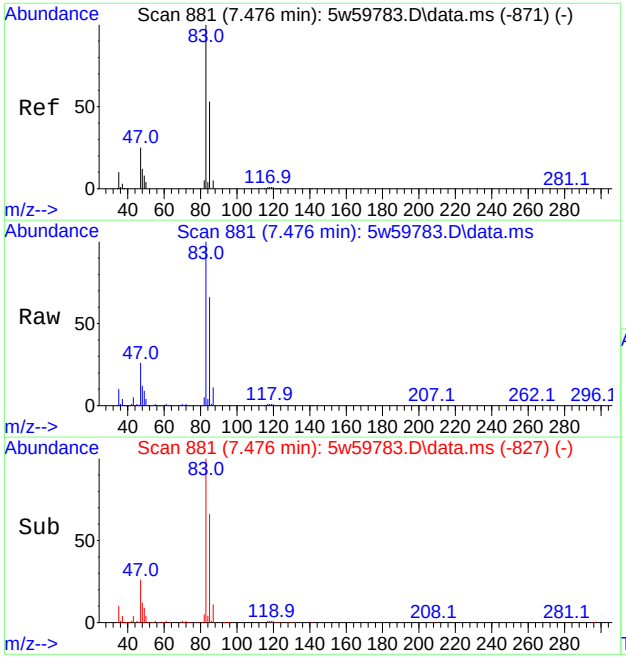


#45
METHYL ACRYLATE
Concen: 10.40 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 948651

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.5	9.4	17.6

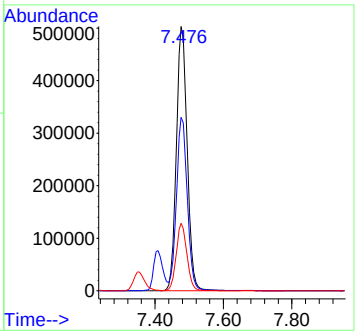


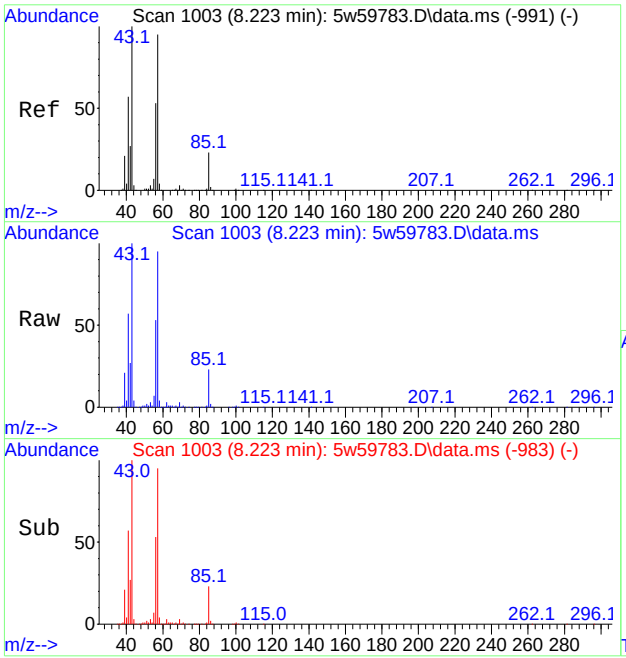


#46
CHLOROFORM
Concen: 9.51 PPBV
RT: 7.476 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1113306

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.5	95.5
47	25.2	0.0	55.2

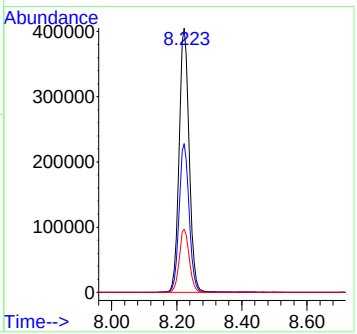


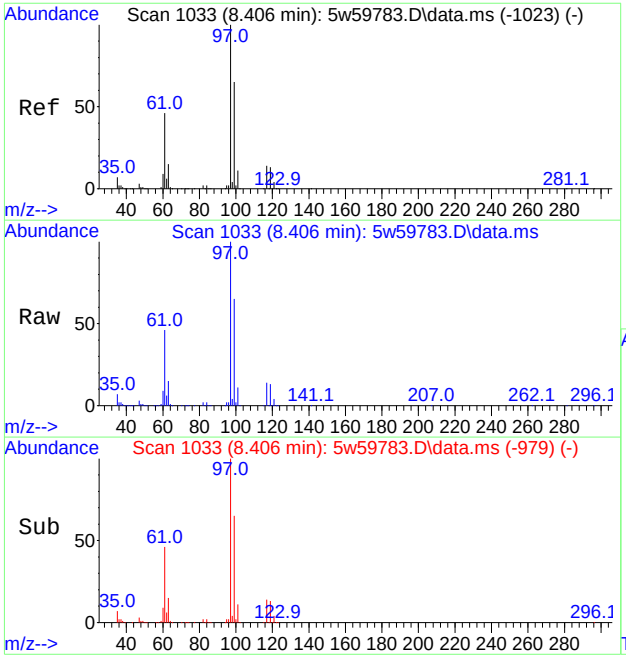


#47
2,4-DIMETHYLPENTANE
Concen: 9.73 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 877406

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.8	0.0	53.8

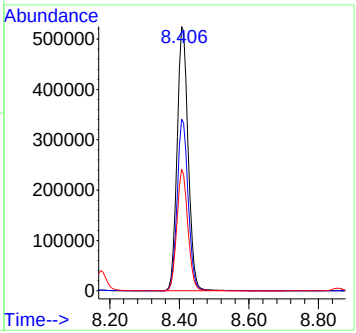


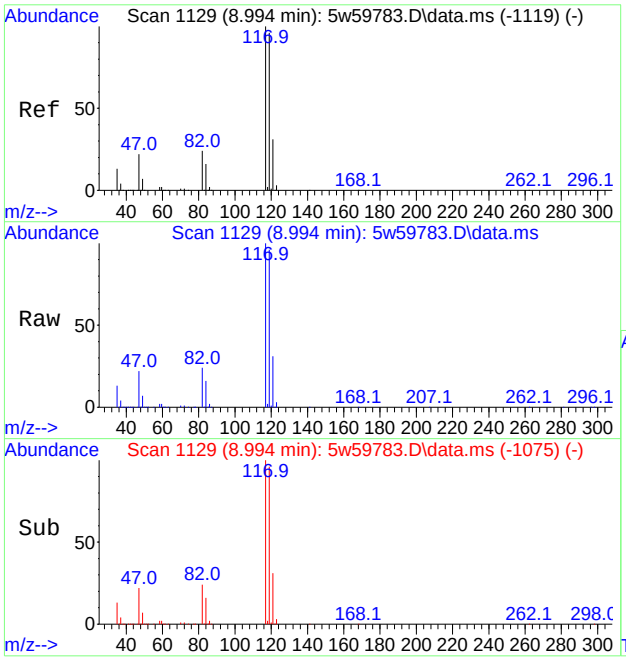


#48
1,1,1-TRICHLOROETHANE
Concen: 9.11 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 97 Resp: 1165134

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.8	94.8
61	45.8	15.8	75.8

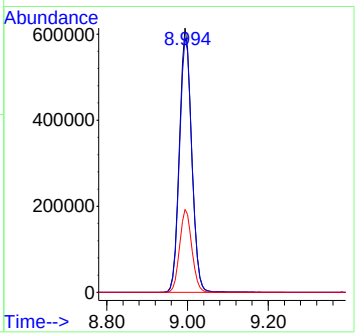


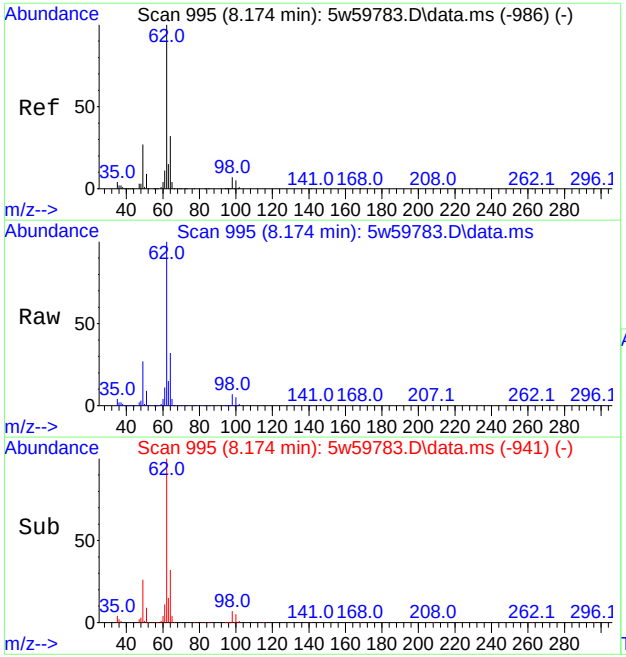


#49
CARBON TETRACHLORIDE
Concen: 9.17 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1296040

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.3	1.3	61.3

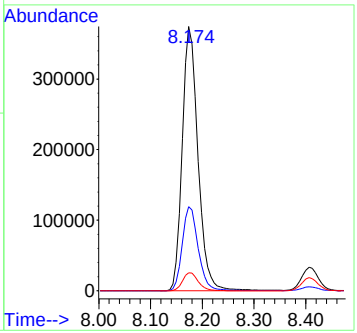


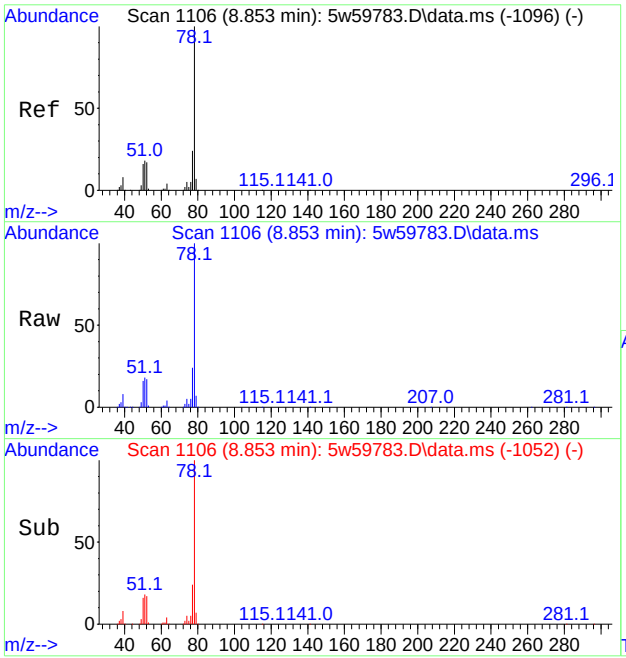


#50
1,2-DICHLOROETHANE
Concen: 9.55 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 793795

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.9	0.0	36.9

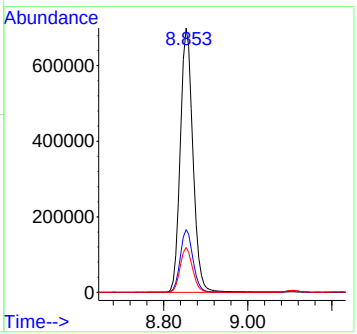


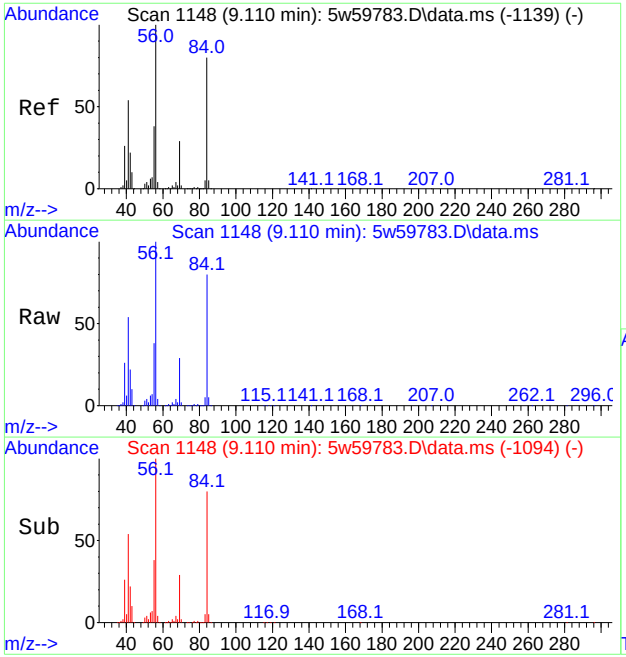


#52
BENZENE
Concen: 10.93 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 78 Resp: 1461752

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.8
52	16.9	0.0	46.9

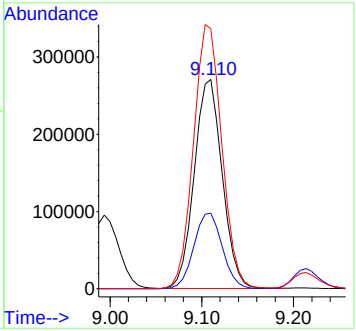


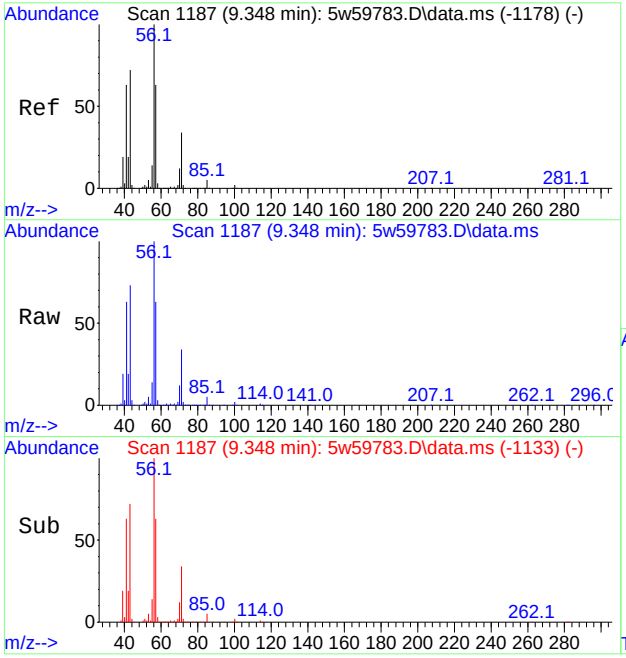


#53
CYCLOHEXANE
Concen: 10.80 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 573806

Ion	Ratio	Lower	Upper
84	100		
69	36.9	6.9	66.9
56	128.2	98.2	158.2

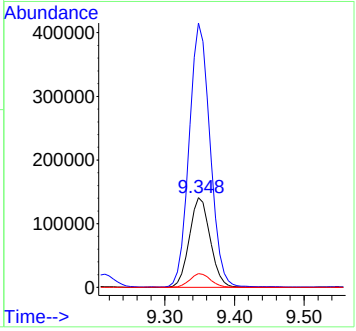


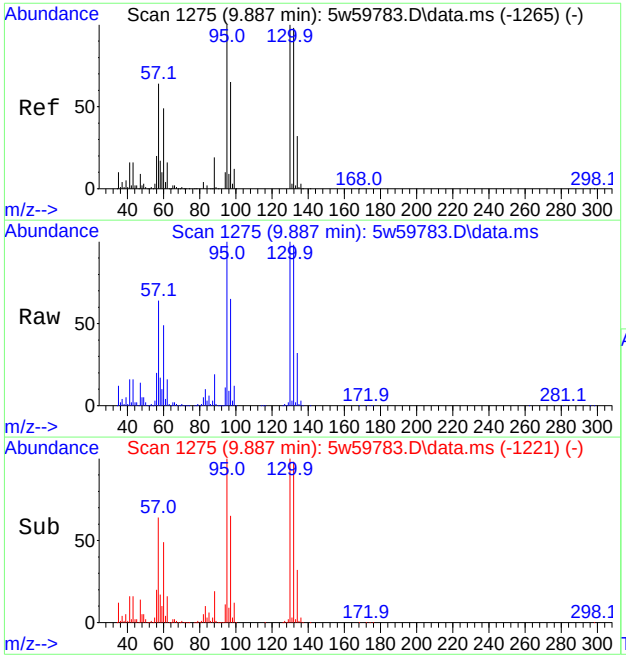


#54
2,3-DIMETHYLPENTANE
Concen: 10.99 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 71 Resp: 294377

Ion	Ratio	Lower	Upper
71	100		
56	294.6	264.6	324.6
85	15.3	0.0	45.3

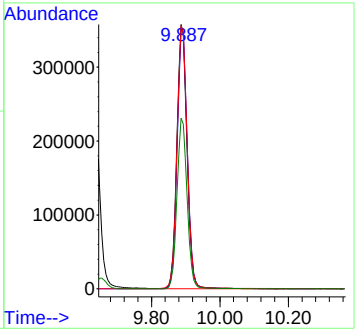


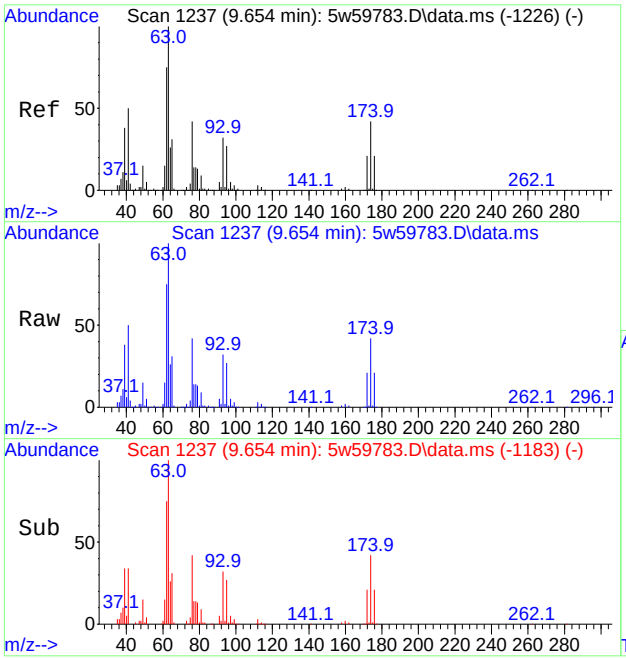


#55
TRICHLOROETHYLENE
Concen: 10.30 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 95 Resp: 733457

Ion	Ratio	Lower	Upper
95	100		
132	99.0	69.0	129.0
130	100.6	70.6	130.6
97	64.6	34.6	94.6

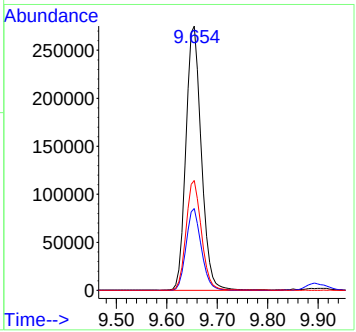


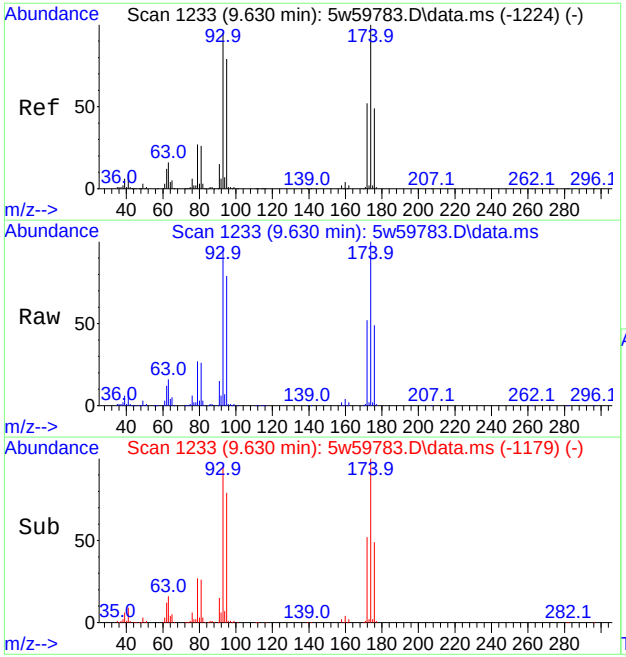


#56
1,2-DICHLOROPROPANE
Concen: 10.35 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 587338

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.5	11.5	71.5

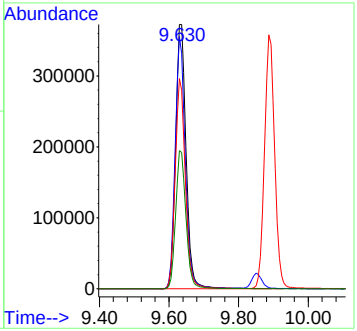


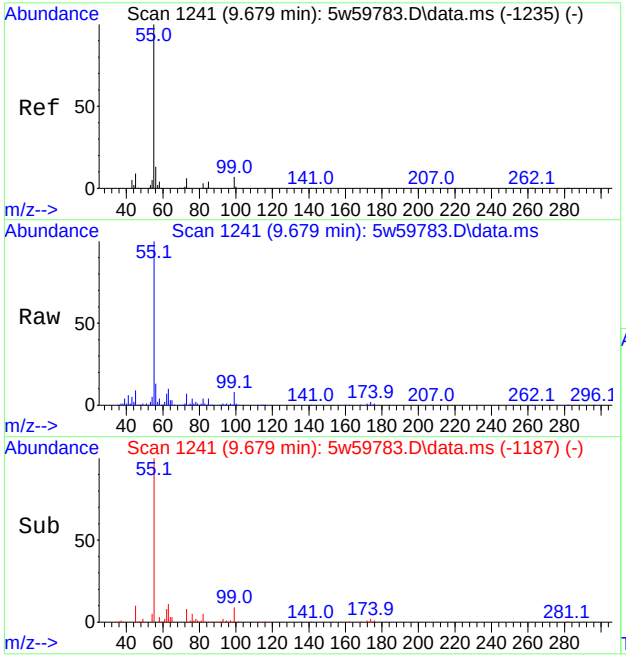


#57
DIBROMOMETHANE
Concen: 9.96 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:174 Resp: 777595

Ion	Ratio	Lower	Upper
174	100		
93	92.8	65.0	120.6
95	77.8	54.5	101.1
172	51.9	36.3	67.5

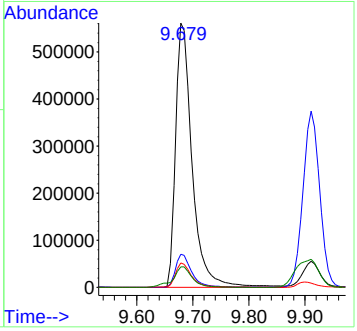


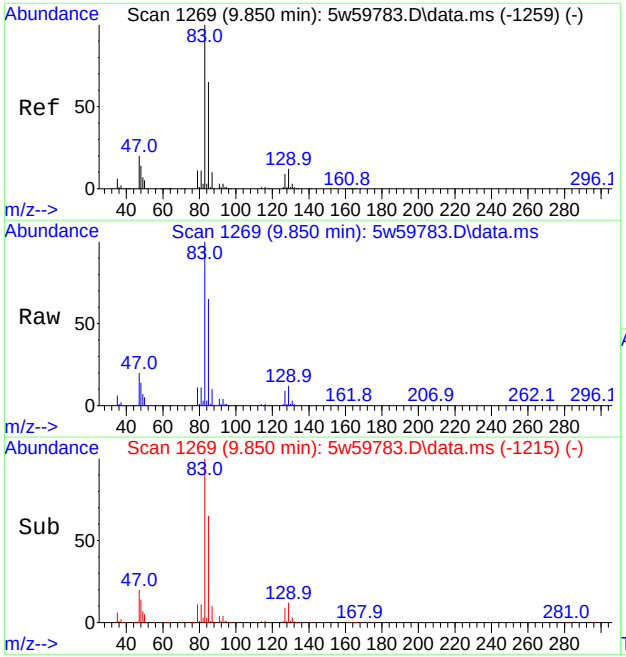


#58
ETHYL ACRYLATE
Concen: 11.15 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 1150308

Ion	Ratio	Lower	Upper
55	100		
56	12.3	8.6	16.0
45	9.4	6.6	12.2
99	9.2	6.4	12.0

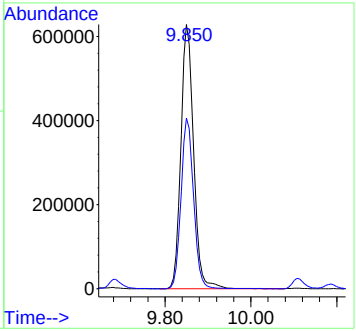


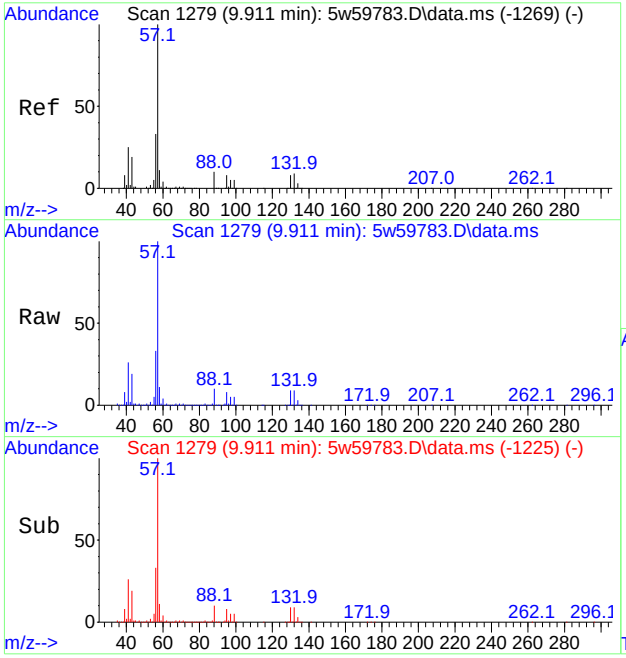


#59
BROMODICHLOROMETHANE
Concen: 10.19 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1291376

Ion	Ratio	Lower	Upper
83	100		
85	63.4	33.4	93.4

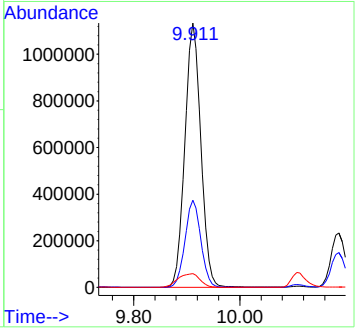


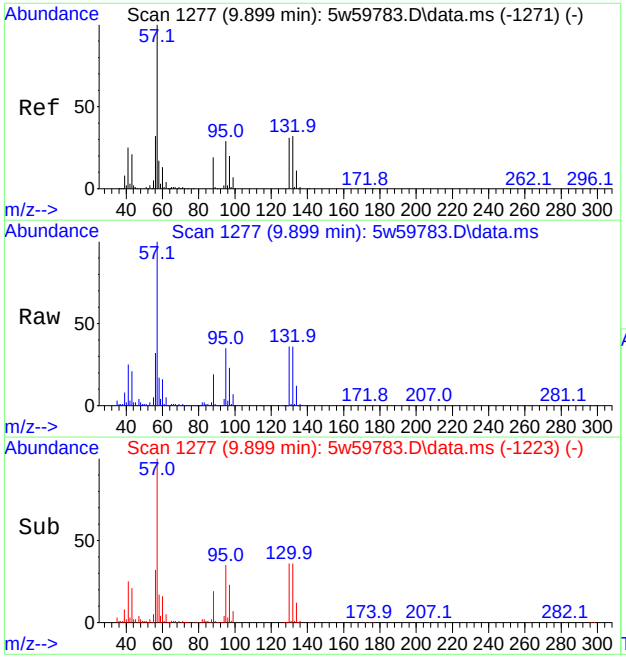


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.46 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 2382864

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.3	0.0	37.3

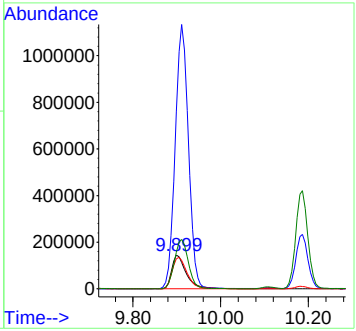


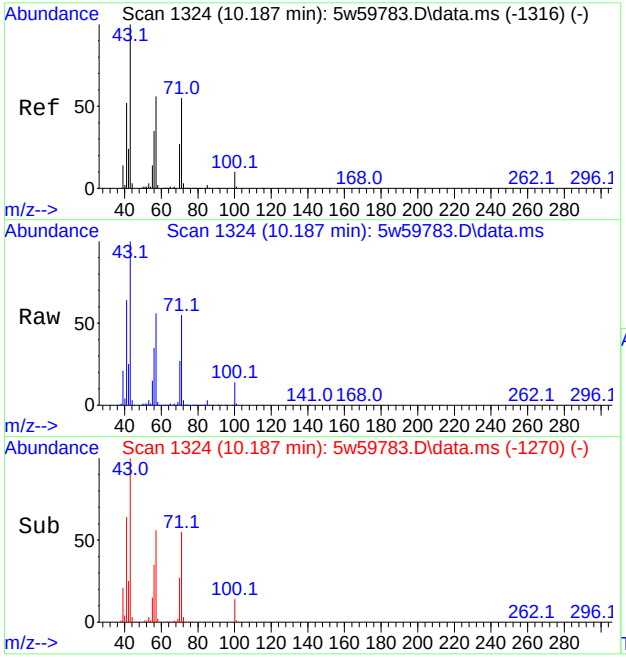


#61
1,4-DIOXANE
Concen: 12.16 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 88 Resp: 335180

Ion	Ratio	Lower	Upper
88	100		
57	524.2	494.2	554.2
58	88.9	58.9	118.9
43	108.3	78.3	138.3

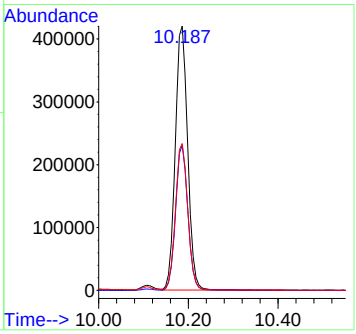


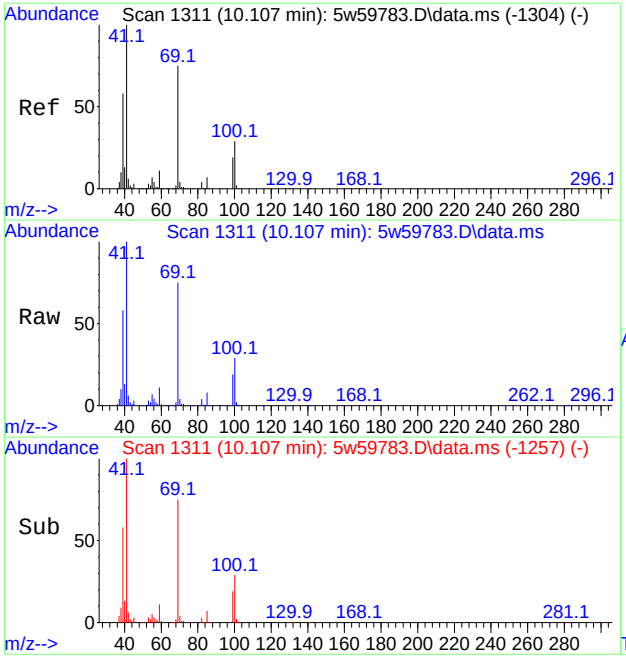


#62
HEPTANE
Concen: 9.62 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 809108

Ion	Ratio	Lower	Upper
43	100		
71	54.5	24.5	84.5
57	56.2	26.2	86.2

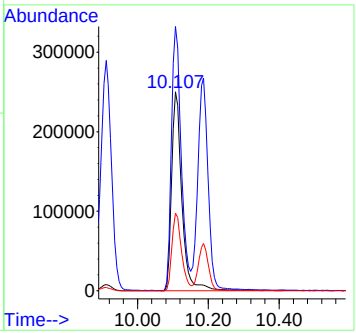


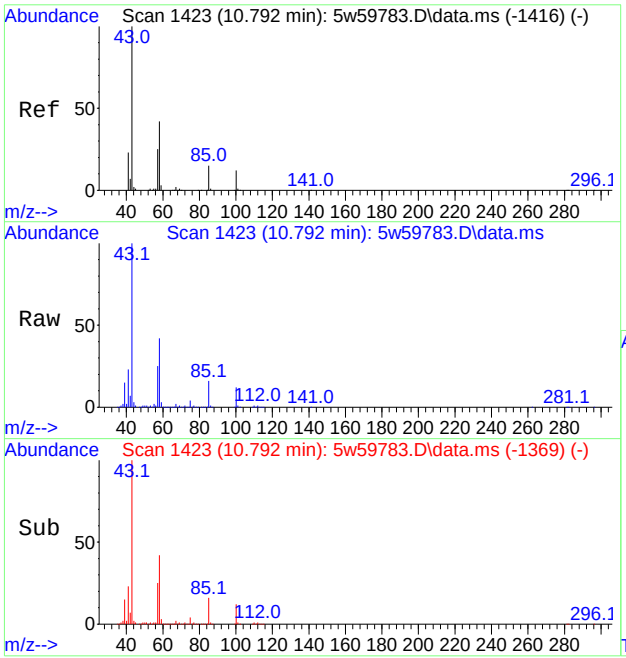


#63
METHYL METHACRYLATE
Concen: 12.20 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 505563

Ion	Ratio	Lower	Upper
69	100		
41	125.3	95.3	155.3
100	36.3	6.3	66.3

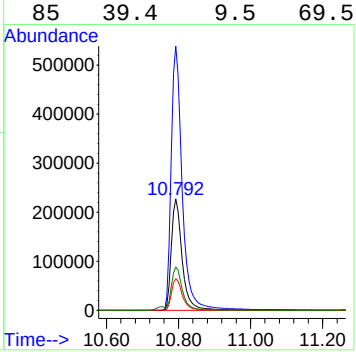


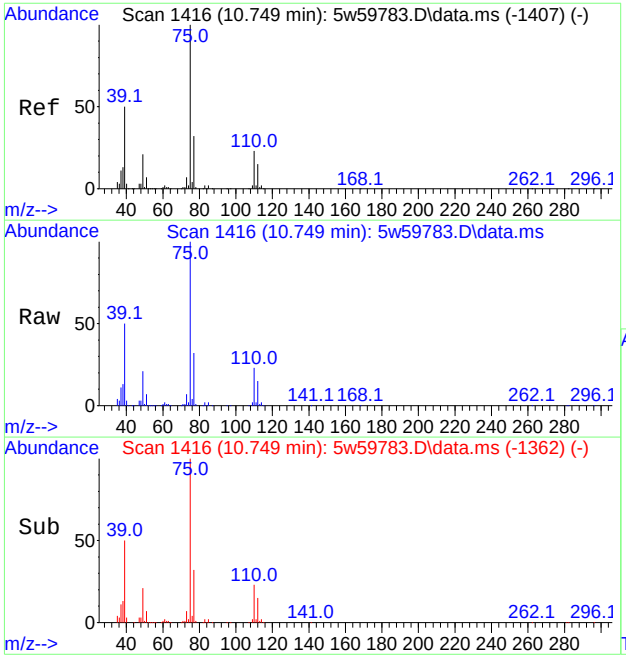


#64
METHYL ISOBUTYL KETONE
Concen: 11.29 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 480676

Ion	Ratio	Lower	Upper
58	100		
43	239.2	209.1	269.1
100	28.8	0.0	58.8
85	39.4	9.5	69.5

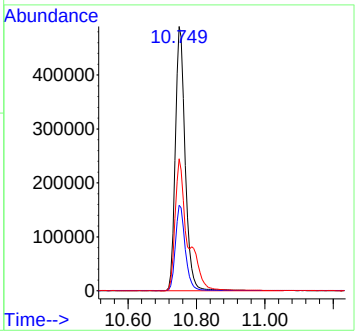


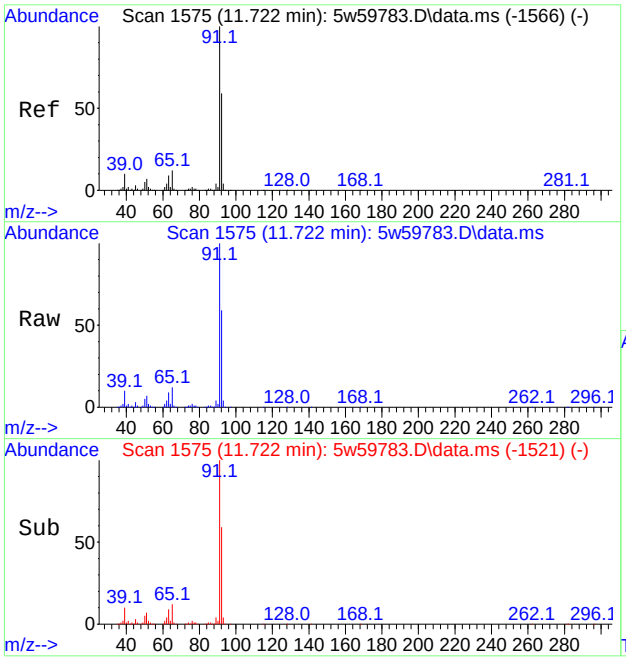


#65
cis-1,3-DICHLOROPROPENE
Concen: 11.23 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 988291

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.3	19.2	79.2

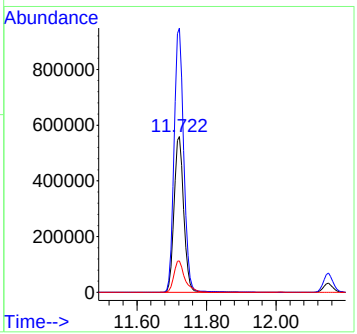


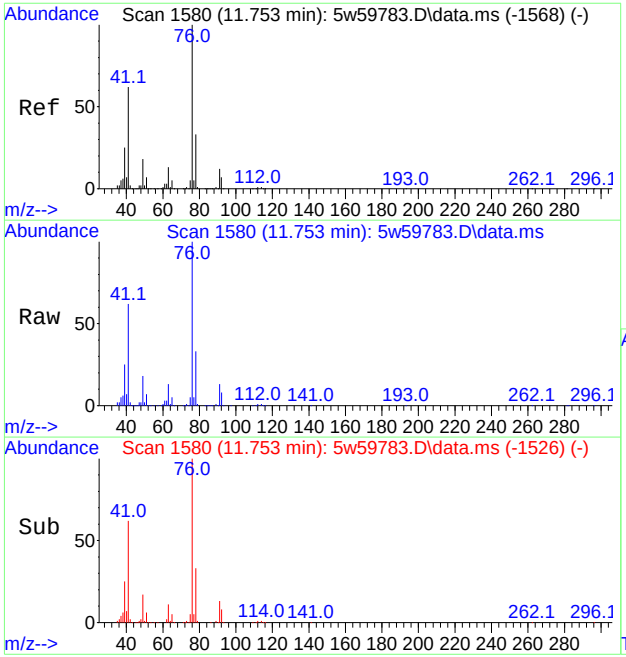


#66
TOLUENE
Concen: 11.29 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 92 Resp: 1078428

Ion	Ratio	Lower	Upper
92	100		
91	170.1	140.1	200.1
65	23.1	0.0	53.1

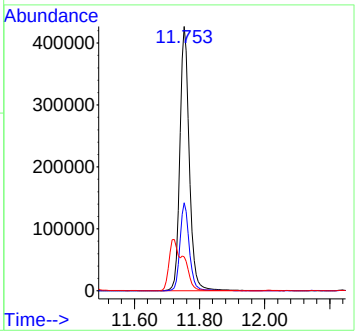


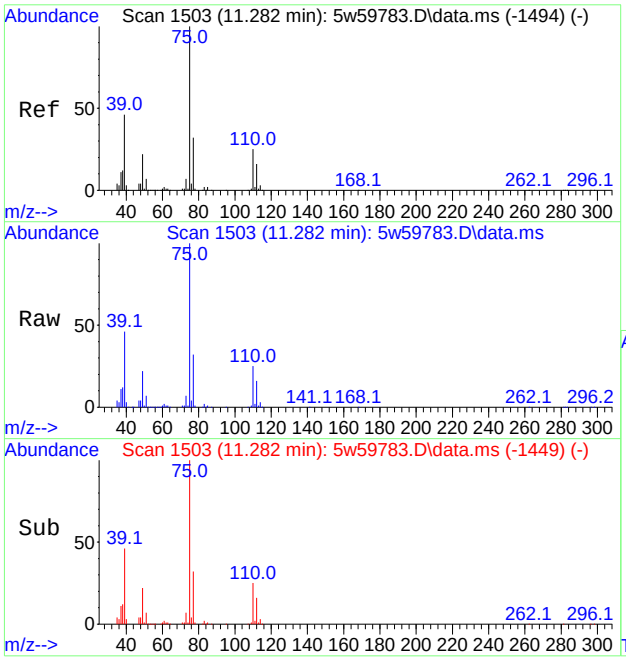


#67
1,3-DICHLOROPROPANE
Concen: 10.80 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 866163

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	10.1	7.2	13.4

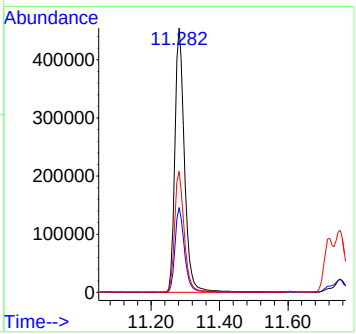


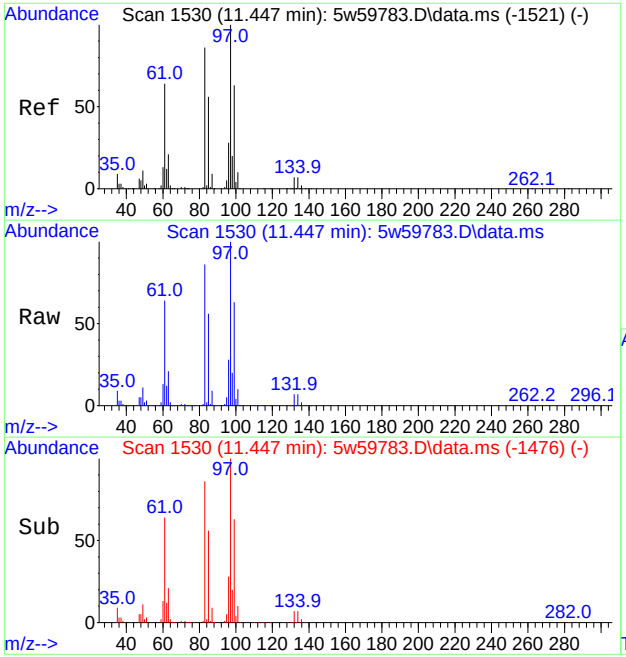


#68
trans-1,3-DICHLOROPROPENE
Concen: 11.02 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 890794

Ion	Ratio	Lower	Upper
75	100		
77	31.6	1.7	61.7
39	46.1	16.2	76.2

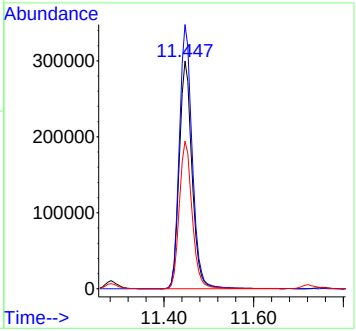


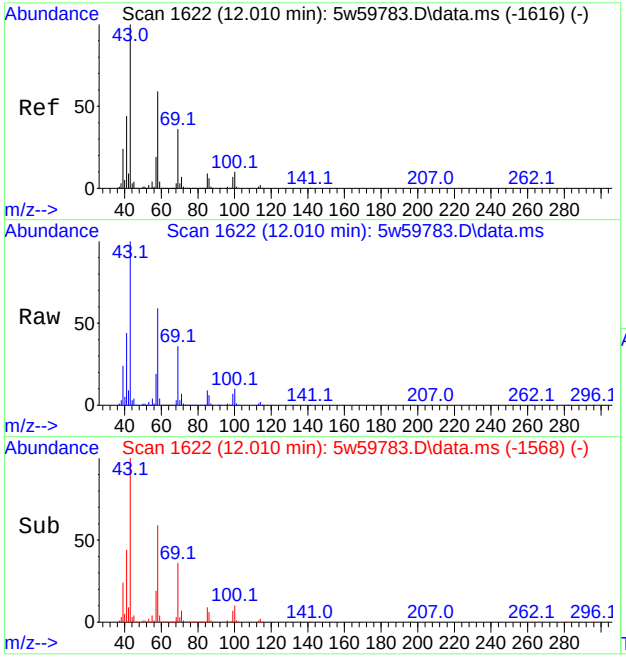


#69
1,1,2-TRICHLOROETHANE
Concen: 11.35 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 593800

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.3	35.3	95.3

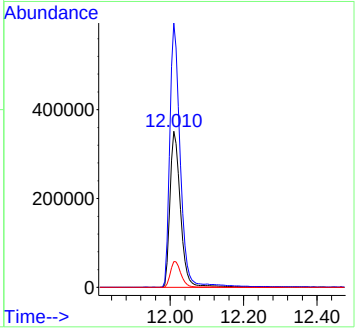


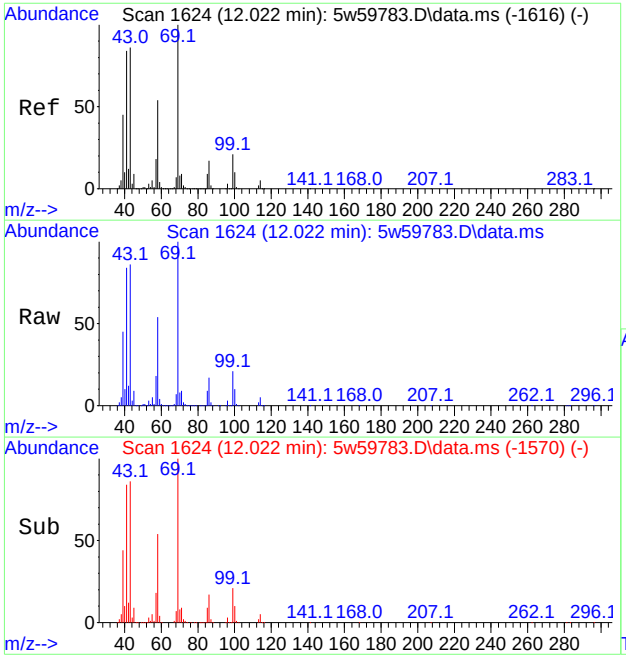


#71
2-HEXANONE
Concen: 12.76 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 708433

Ion	Ratio	Lower	Upper
58	100		
43	167.2	137.2	197.2
100	16.9	0.0	46.9

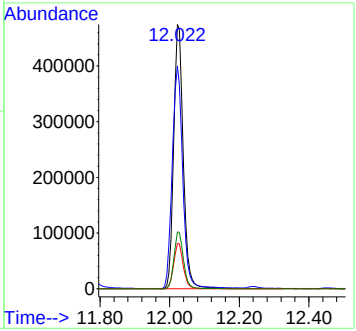


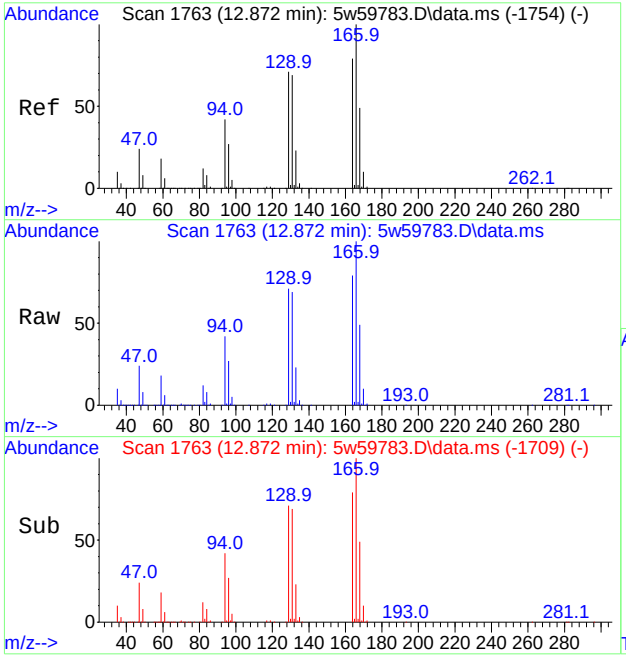


#72
ETHYL METHACRYLATE
Concen: 13.03 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 915611

Ion	Ratio	Lower	Upper
69	100		
41	91.5	64.0	119.0
86	17.2	12.0	22.4
99	21.4	15.0	27.8

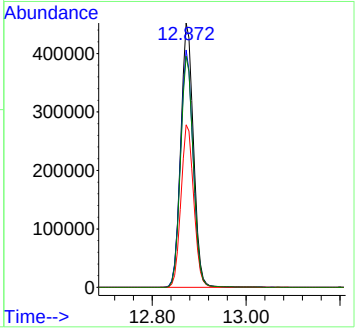


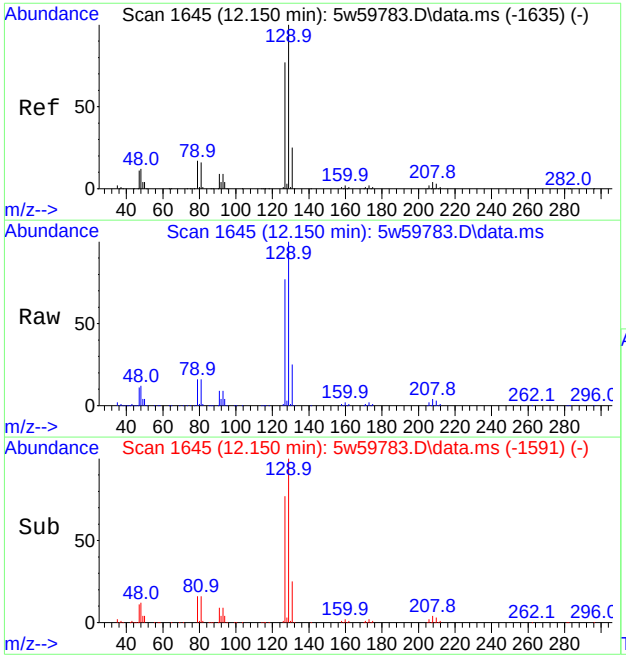


#73
TETRACHLOROETHYLENE
Concen: 10.39 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:164 Resp: 851797

Ion	Ratio	Lower	Upper
164	100		
129	89.7	59.7	119.7
168	62.2	32.2	92.2
131	87.8	57.8	117.8

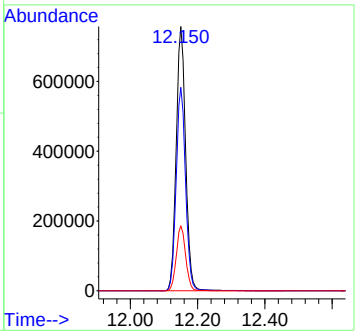


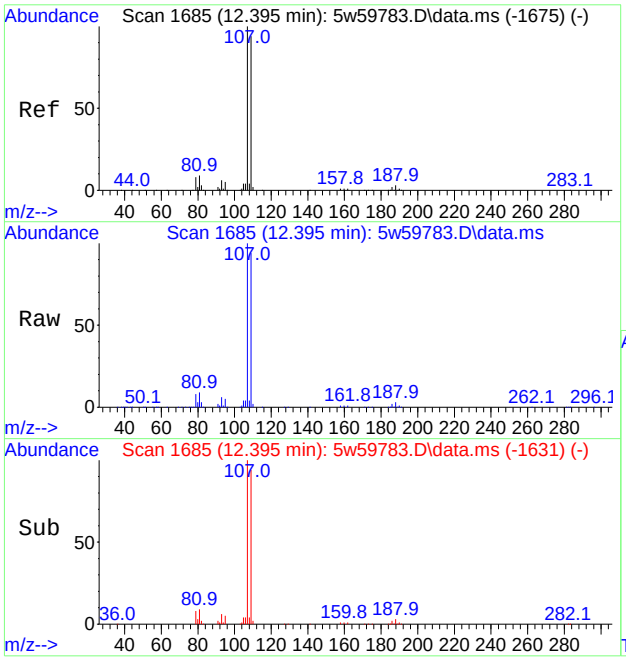


#74
DIBROMOCHLOROMETHANE
Concen: 10.66 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:129 Resp: 1470928

Ion	Ratio	Lower	Upper
129	100		
127	77.1	47.1	107.1
131	24.5	0.0	54.5

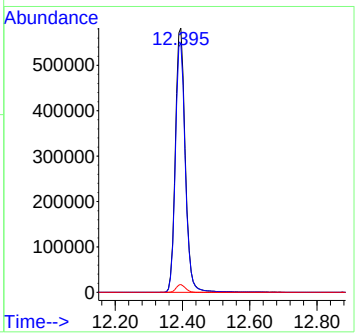


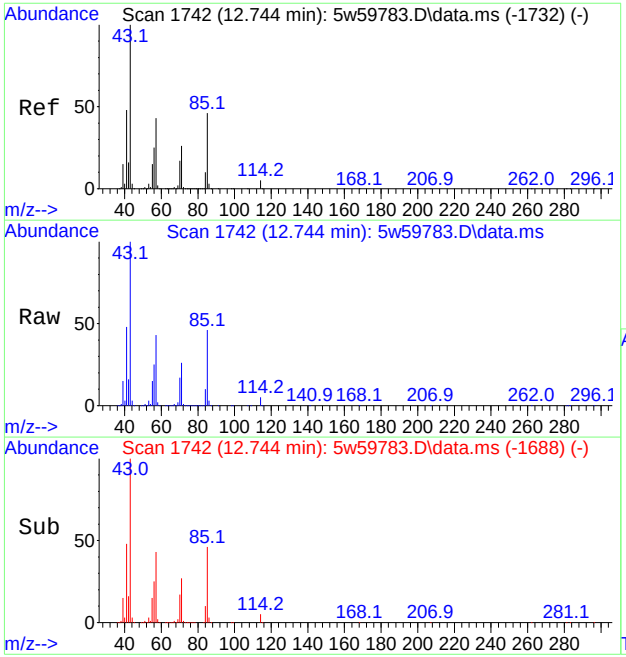


#75
1,2-DIBROMOETHANE
Concen: 11.73 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:107 Resp: 1182589

Ion	Ratio	Lower	Upper
107	100		
109	94.8	64.8	124.8
188	2.8	0.0	32.8

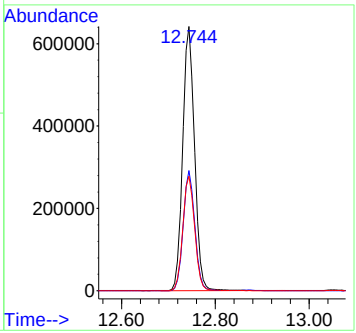


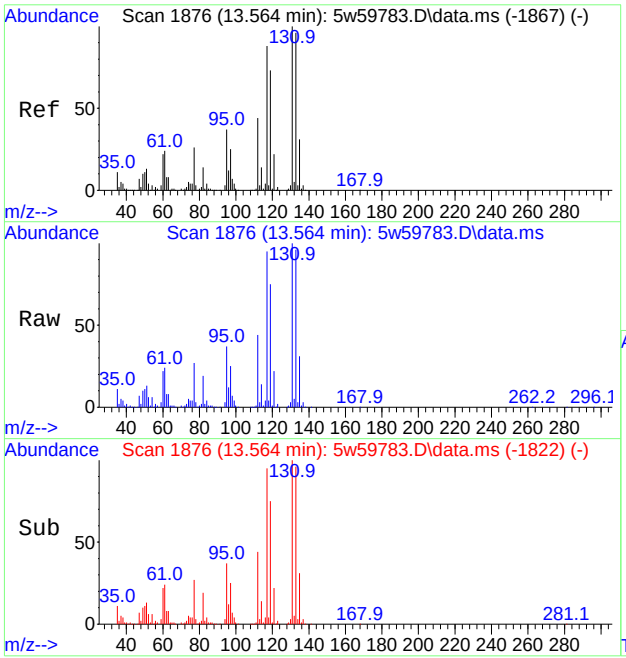


#76
OCTANE
Concen: 9.72 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1128893

Ion	Ratio	Lower	Upper
43	100		
85	44.6	14.6	74.6
57	43.7	13.7	73.7

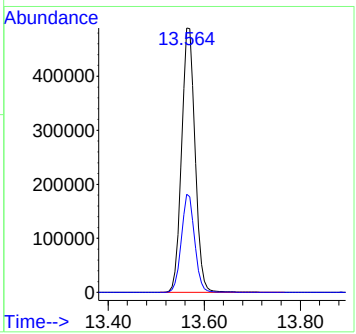


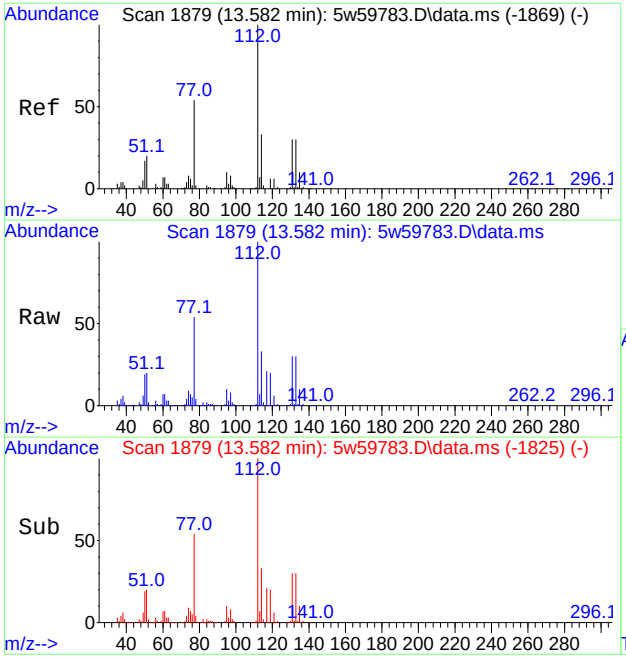


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.52 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:131 Resp: 951903

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

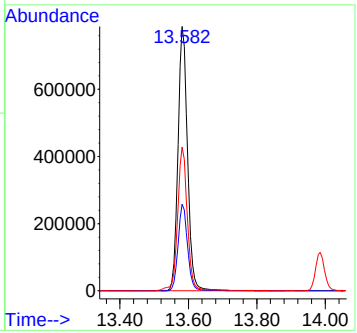


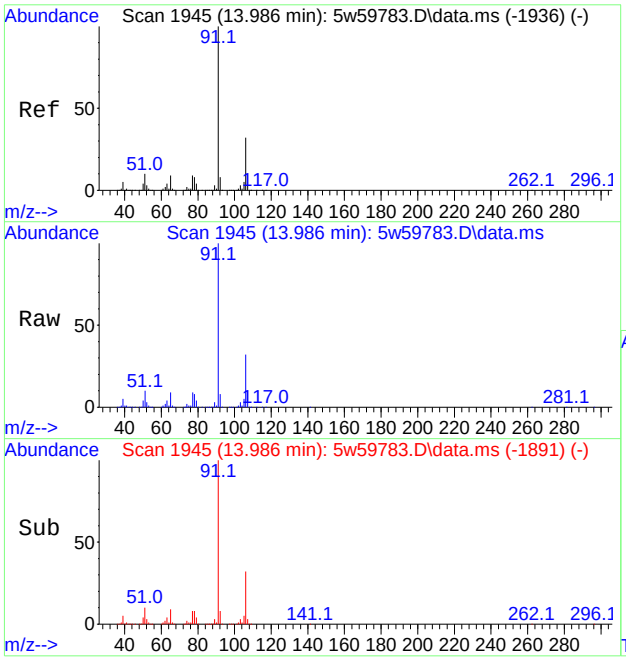


#78
CHLOROBENZENE
Concen: 10.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:112 Resp: 1532486

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.4	25.4	85.4

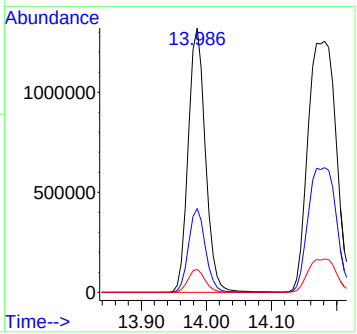


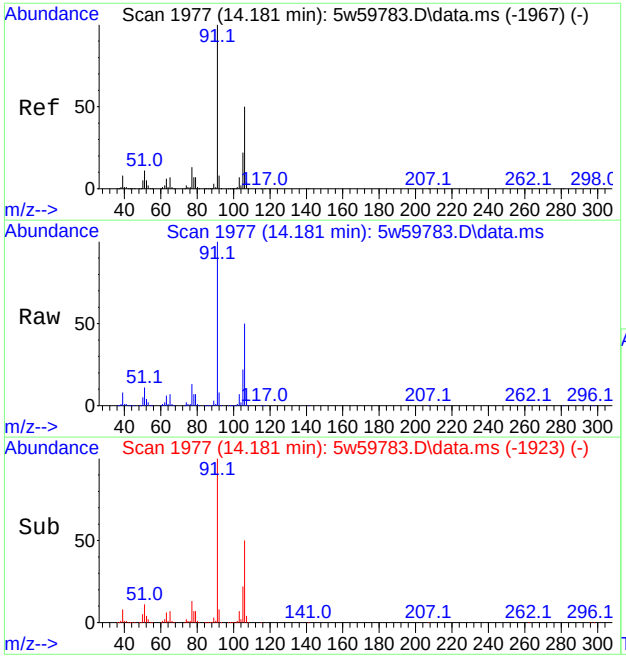


#79
ETHYLBENZENE
Concen: 11.38 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2426187

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.3	61.3
77	8.6	0.0	38.6

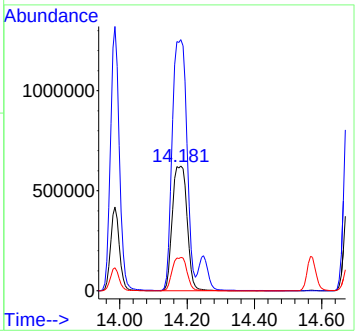


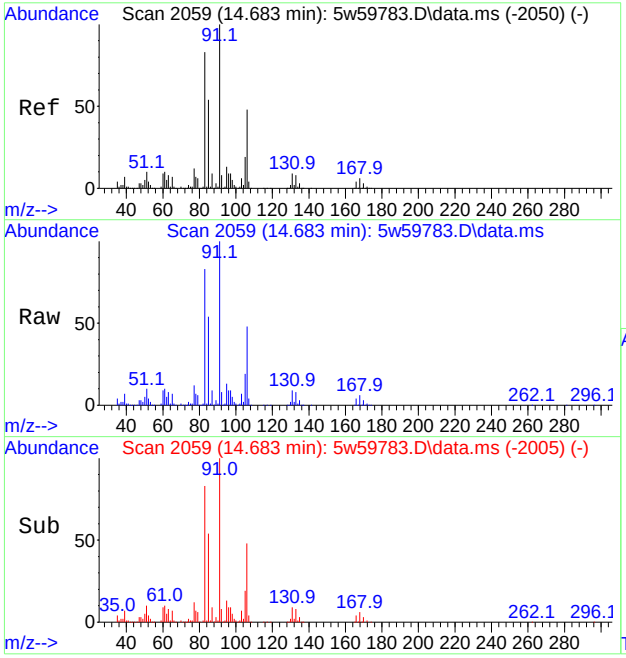


#80
m,p-XYLENE
Concen: 23.39 PPBV
RT: 14.181 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 1894377

Ion	Ratio	Lower	Upper
106	100		
91	201.0	171.0	231.0
77	26.7	0.0	56.7

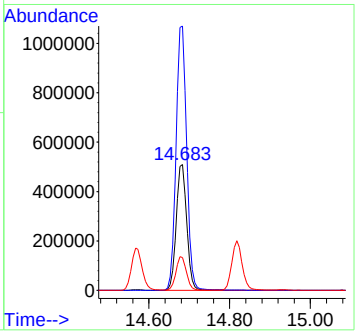


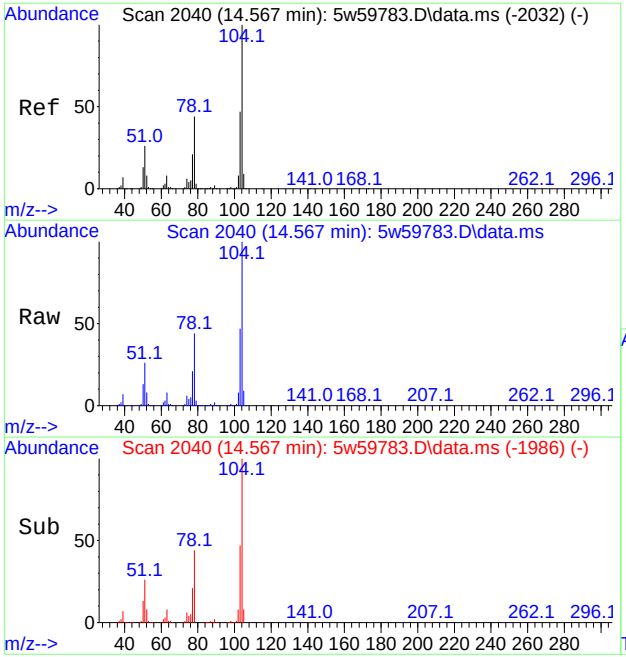


#81
o-XYLENE
Concen: 12.40 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 921132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	181.6	241.6
77	26.6	0.0	56.6

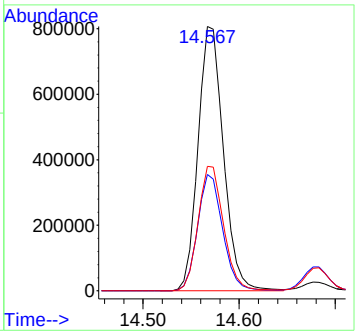


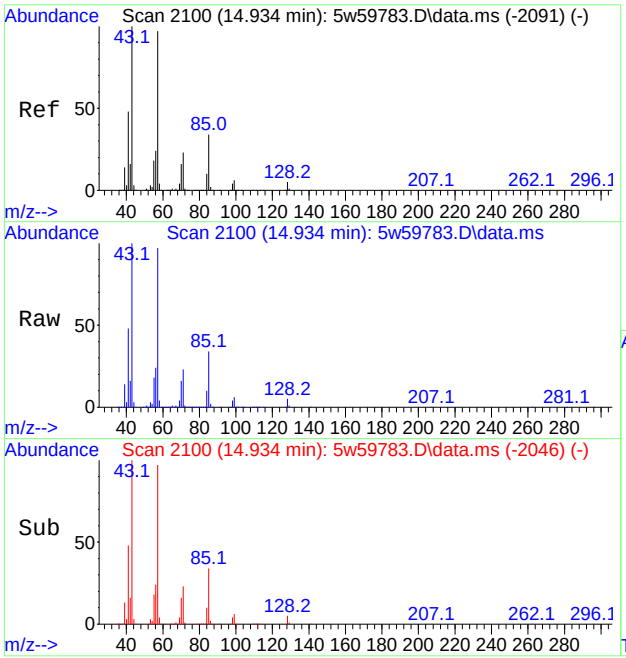


#82
STYRENE
Concen: 13.06 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:104 Resp: 1485661

Ion	Ratio	Lower	Upper
104	100		
78	43.3	13.3	73.3
103	47.2	17.2	77.2

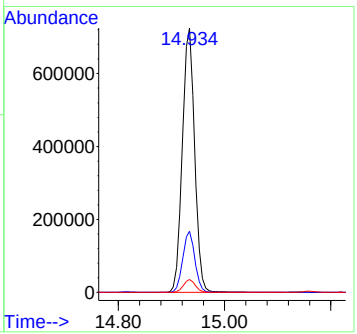


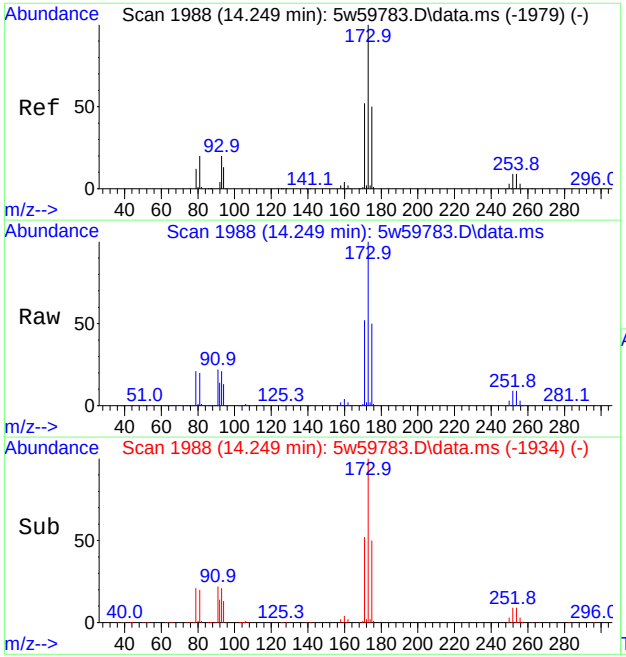


#83
NONANE
Concen: 10.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1167938

Ion	Ratio	Lower	Upper
43	100		
71	22.7	0.0	52.7
128	4.7	0.0	34.7

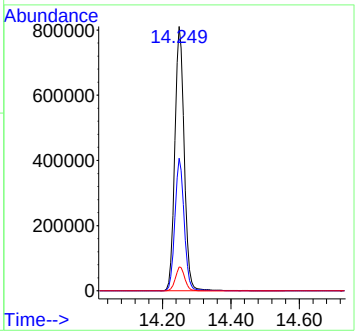


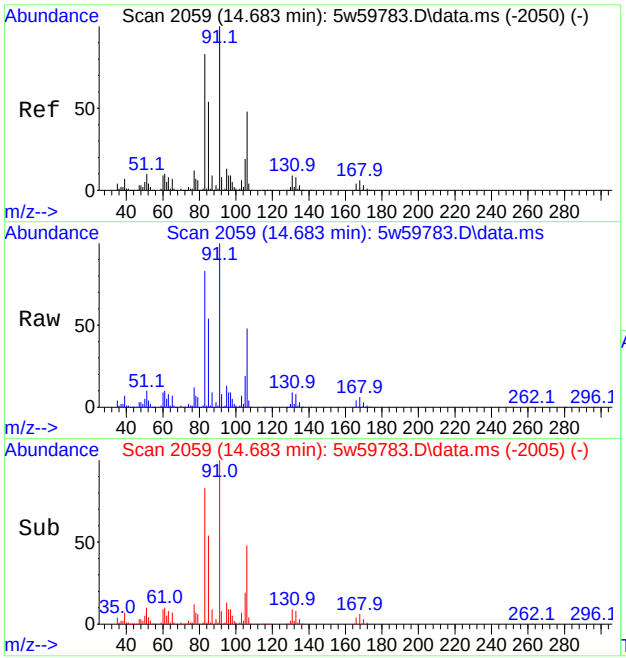


#84
BROMOFORM
Concen: 10.92 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:173 Resp: 1553327

Ion	Ratio	Lower	Upper
173	100		
175	49.6	19.6	79.6
254	9.0	0.0	39.0

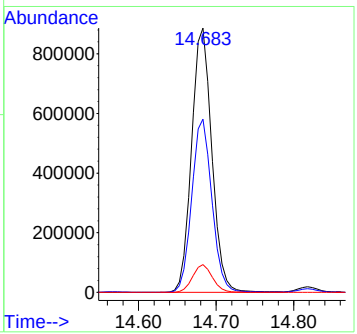


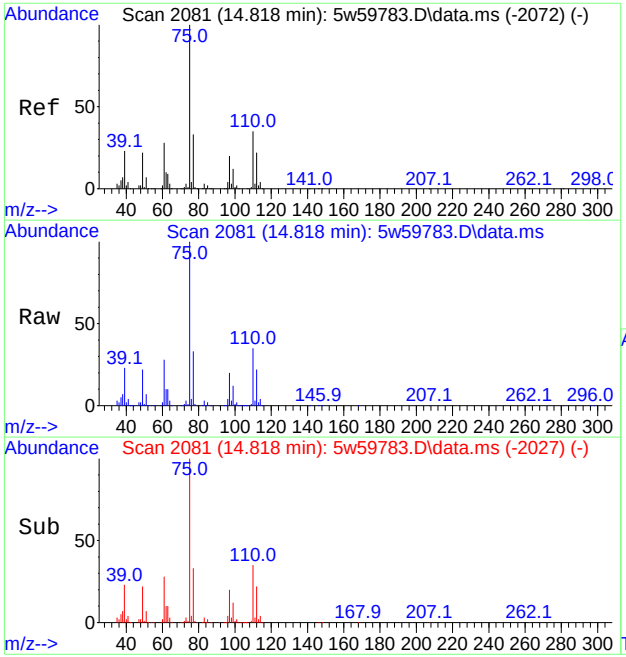


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.27 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1606320

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.2	95.2
131	10.3	0.0	40.3

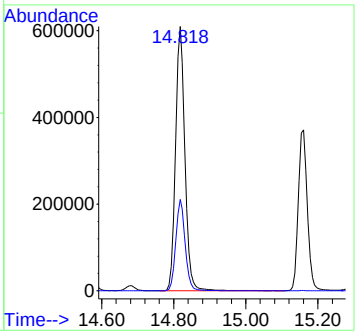


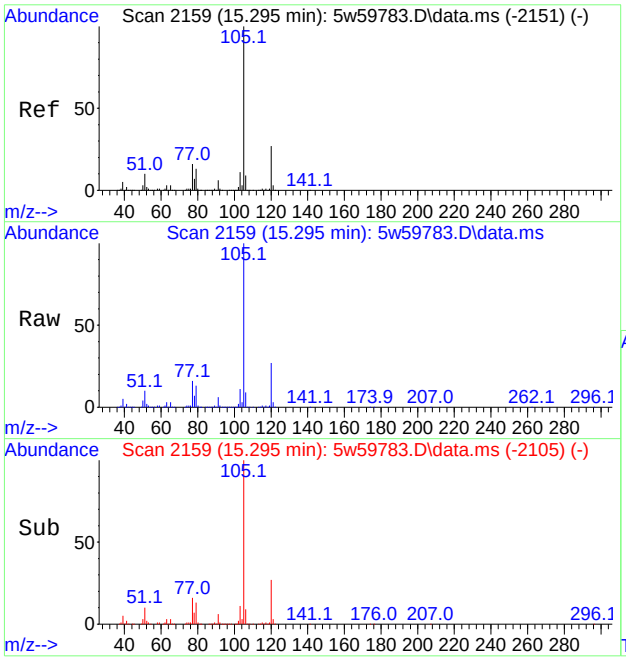


#87
1,2,3-TRICHLOROPROPANE
Concen: 9.96 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 1108756

Ion	Ratio	Lower	Upper
75	100		
110	34.4	4.4	64.4

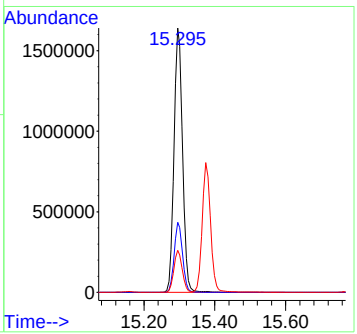


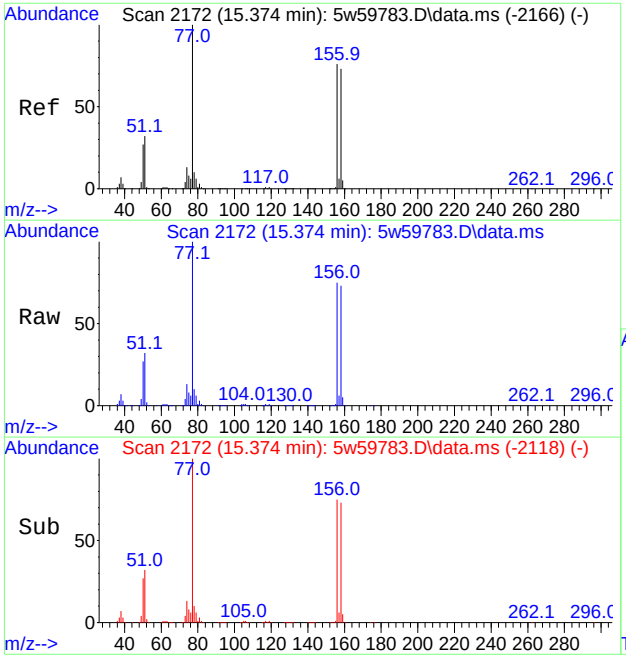


#88
ISOPROPYLBENZENE
Concen: 11.04 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2737713

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

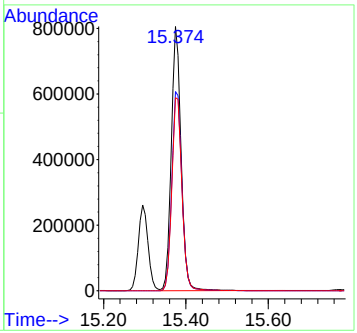


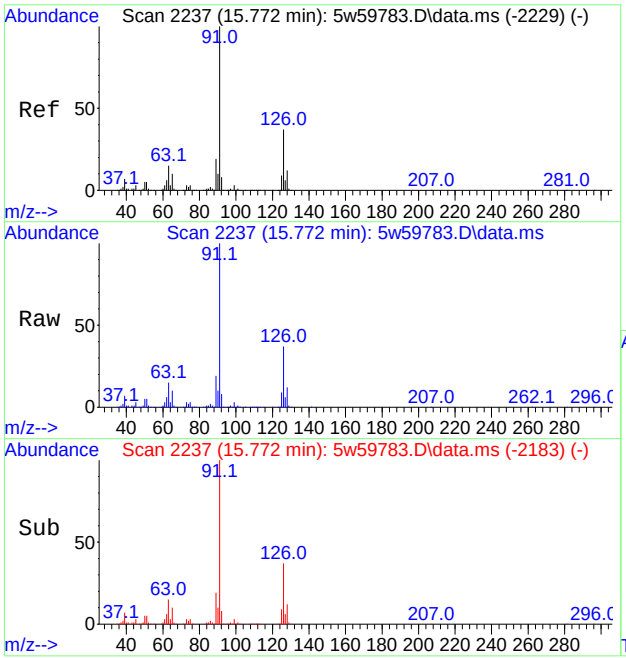


#89
BROMOBENZENE
Concen: 10.19 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 77 Resp: 1323542

Ion	Ratio	Lower	Upper
77	100		
156	78.4	54.9	101.9
158	76.4	53.5	99.3

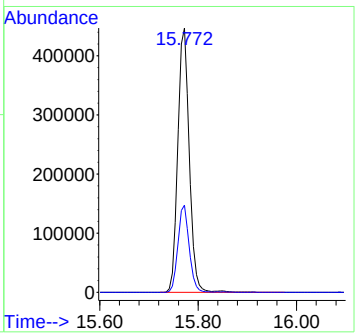


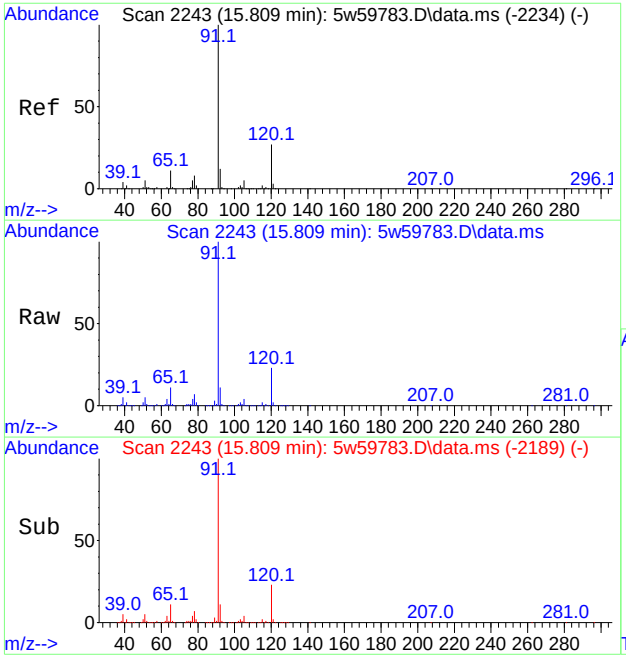


#90
2-CHLOROTOLUENE
Concen: 10.93 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:126 Resp: 723050

Ion	Ratio	Lower	Upper
126	100		
128	32.7	2.7	62.7

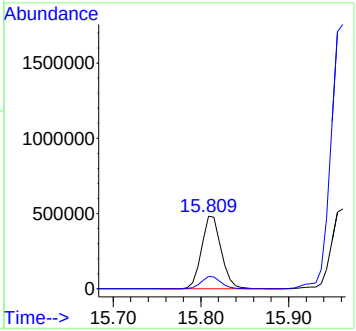


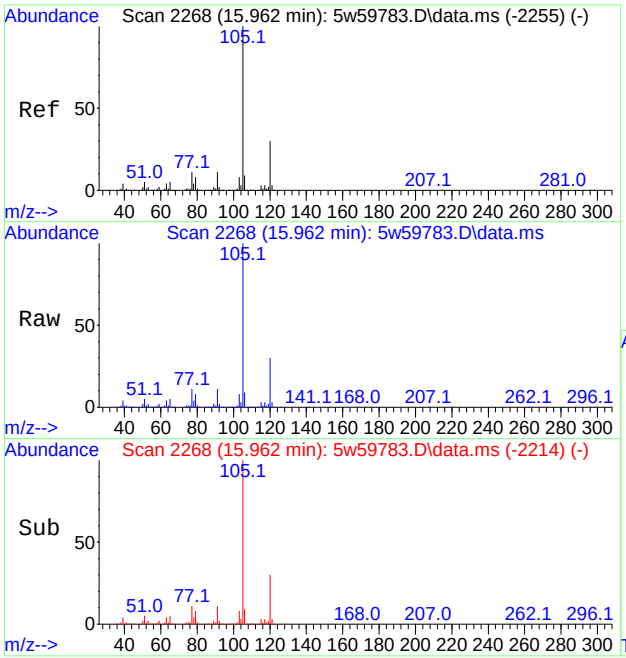


#91
n-PROPYLBENZENE
Concen: 11.44 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:120 Resp: 754817

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

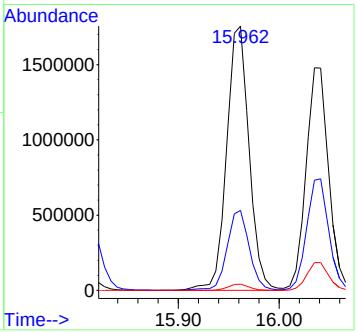


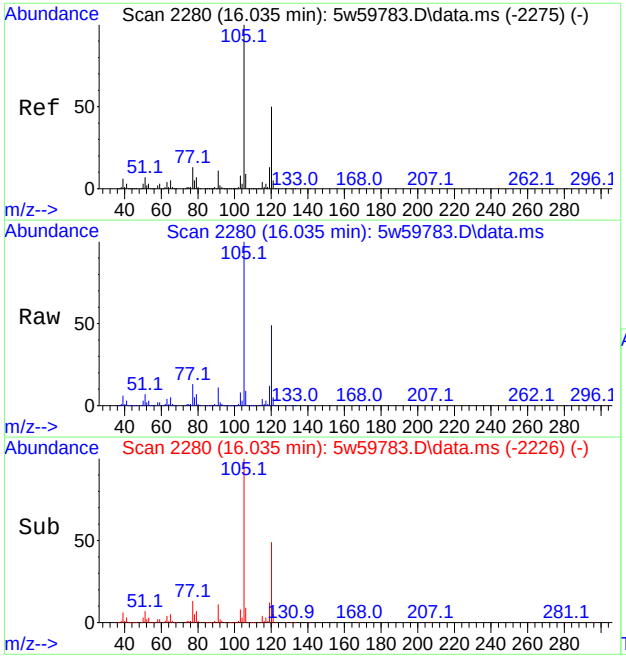


#92
4-ETHYLTOLUENE
Concen: 12.20 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2719805

Ion	Ratio	Lower	Upper
105	100		
120	29.9	0.0	59.9
119	2.3	0.0	32.3

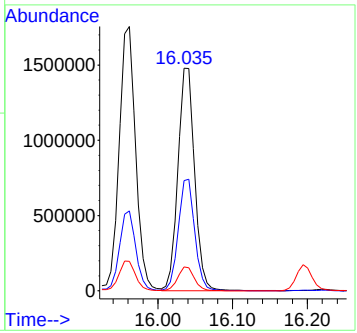


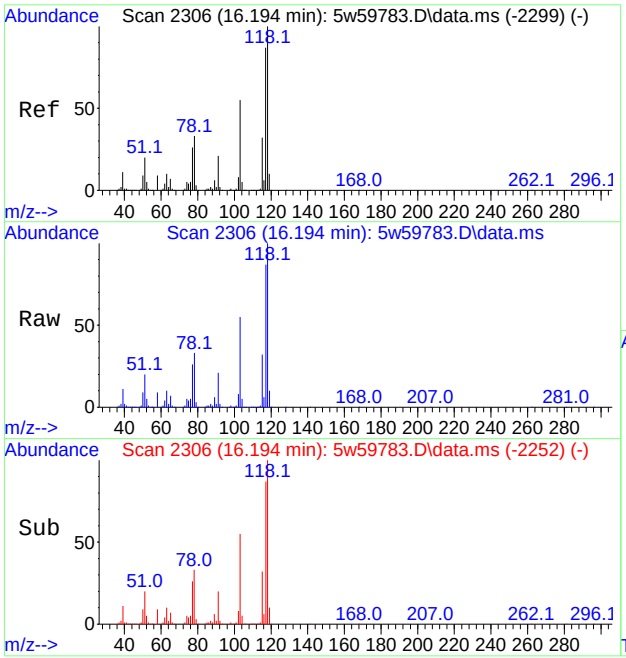


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.13 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2300675

Ion	Ratio	Lower	Upper
105	100		
120	49.4	19.4	79.4
91	10.8	0.0	40.7

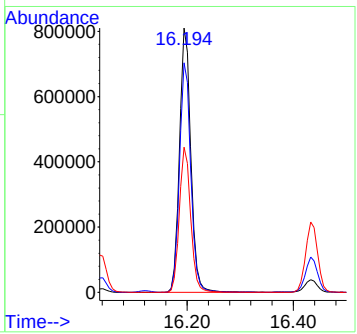


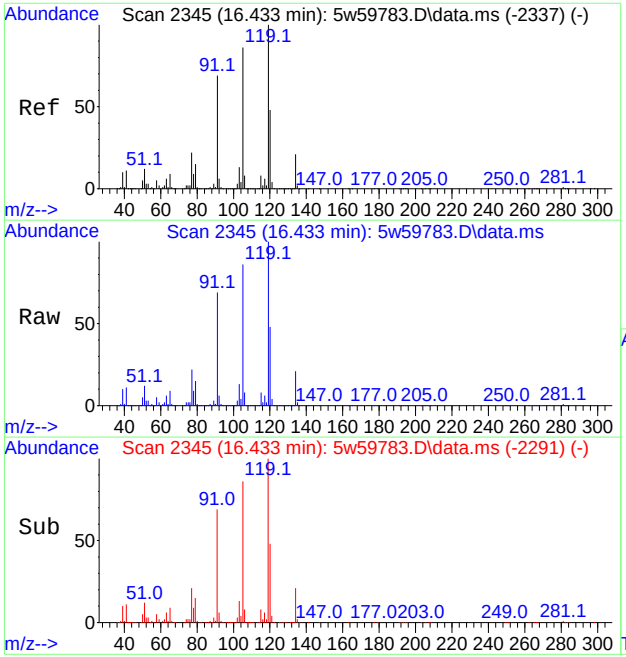


#94
ALPHA-METHYLSTYRENE
Concen: 12.09 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:118 Resp: 1195904

Ion	Ratio	Lower	Upper
118	100		
117	87.0	60.9	113.1
103	55.2	38.6	71.8

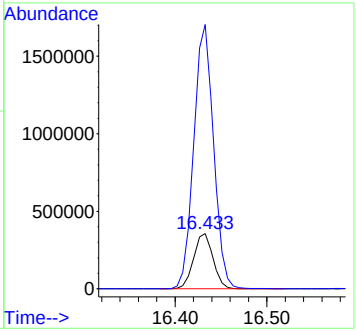


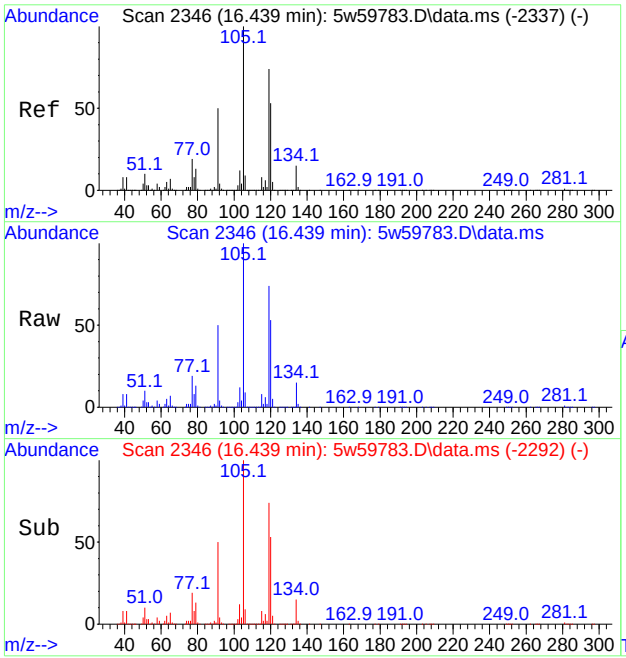


#95
tert-BUTYLBENZENE
Concen: 12.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 523380

Ion	Ratio	Lower	Upper
134	100		
119	489.3	459.3	519.3

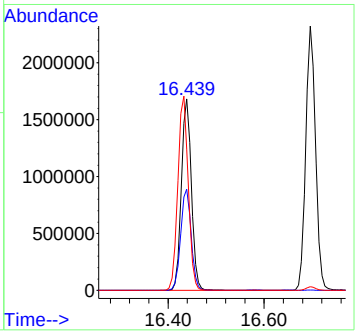


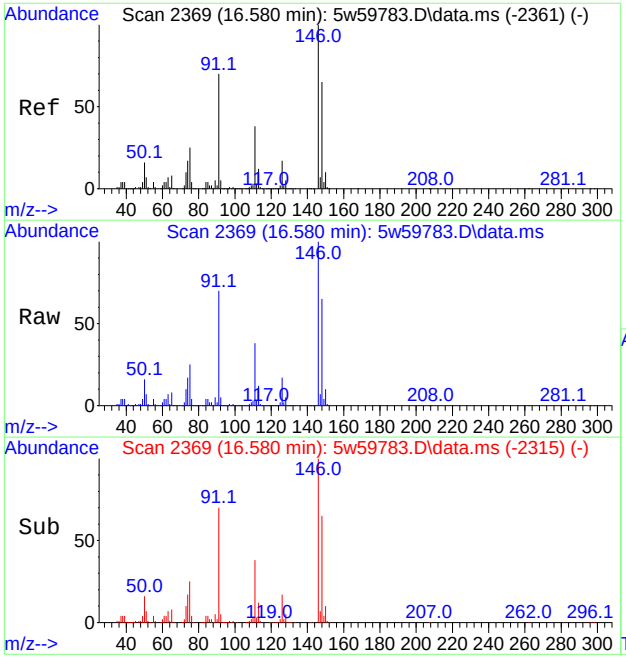


#96
1,2,4-TRIMETHYLBENZENE
Concen: 12.17 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2423323

Ion	Ratio	Lower	Upper
105	100		
120	55.7	25.7	85.7
119	105.7	75.7	135.7

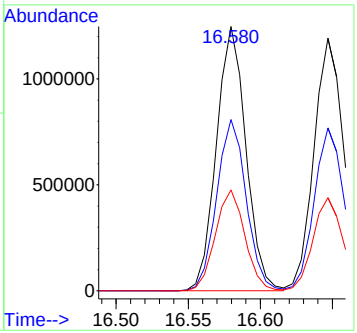


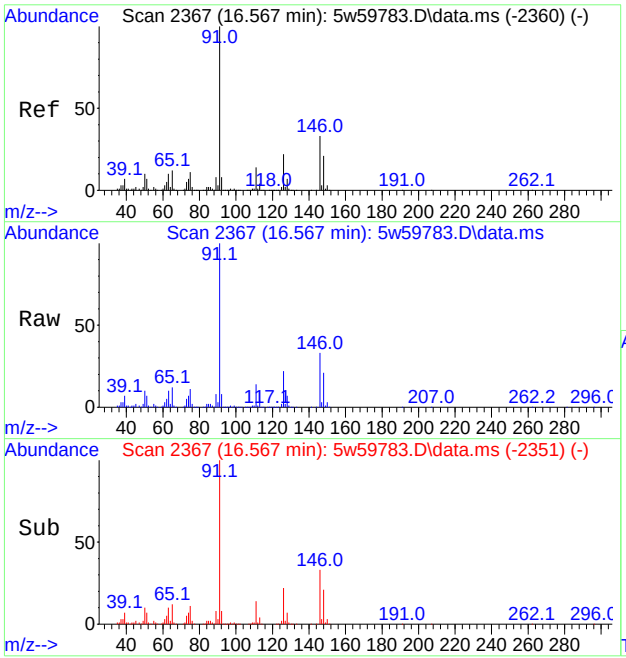


#97
m-DICHLOROBENZENE
Concen: 11.15 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1782947

Ion	Ratio	Lower	Upper
146	100		
148	64.8	34.8	94.8
111	38.2	8.2	68.2

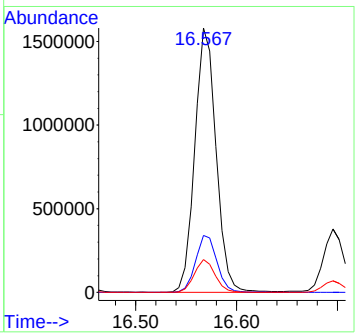


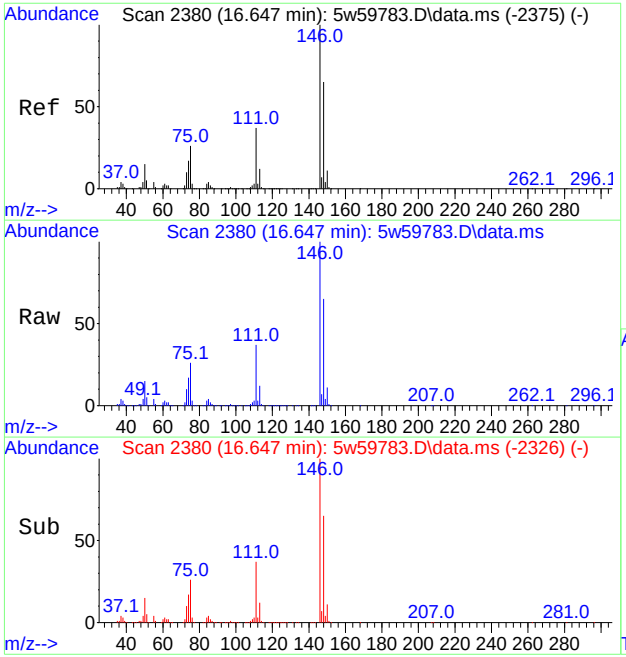


#98
BENZYL CHLORIDE
Concen: 12.73 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2316167

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.2	0.0	42.2

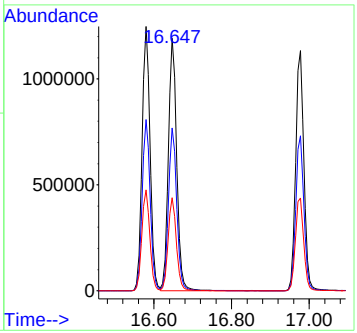


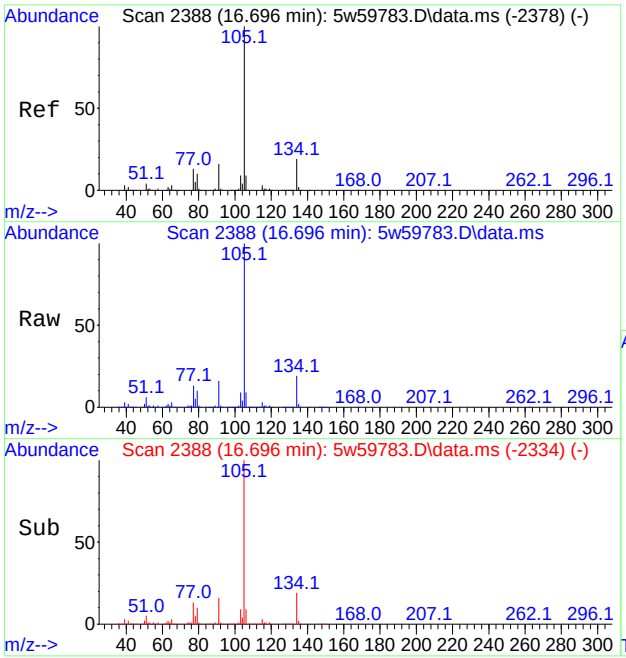


#99
p-DICHLOROBENZENE
Concen: 10.72 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1775311

Ion	Ratio	Lower	Upper
146	100		
148	64.6	34.6	94.6
111	36.7	6.7	66.7

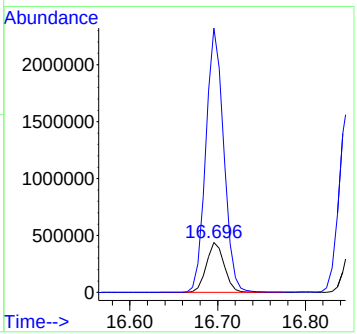


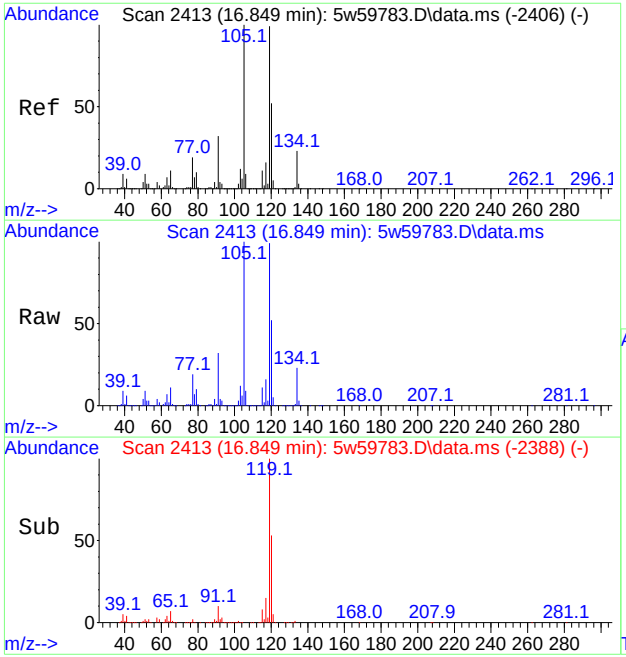


#100
sec-BUTYLBENZENE
Concen: 11.27 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 618616

Ion	Ratio	Lower	Upper
134	100		
105	532.5	502.5	562.5

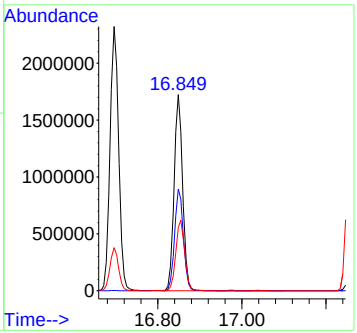


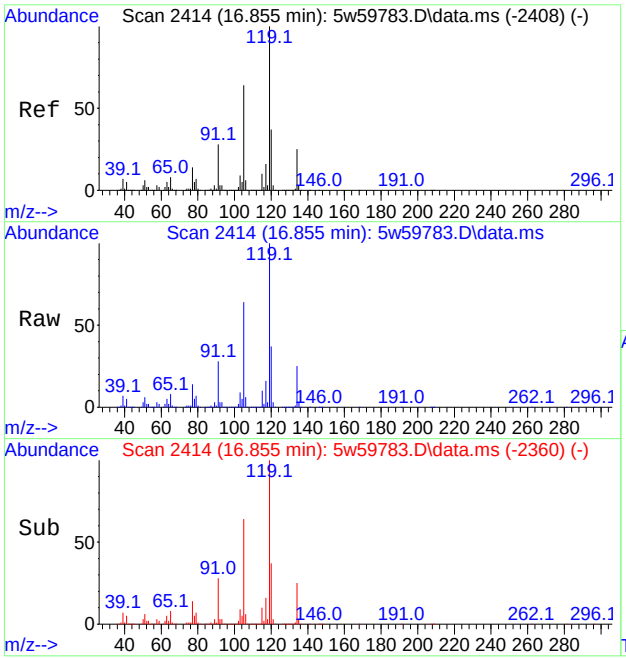


#101
1,2,3-TRIMETHYLBENZENE
Concen: 11.39 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2427524

Ion	Ratio	Lower	Upper
105	100		
120	53.5	23.5	83.5
91	37.4	7.4	67.4

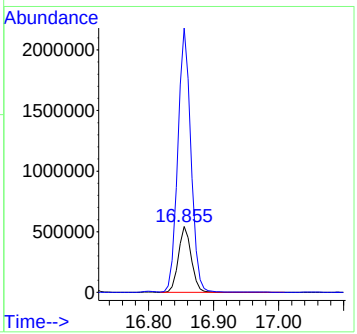


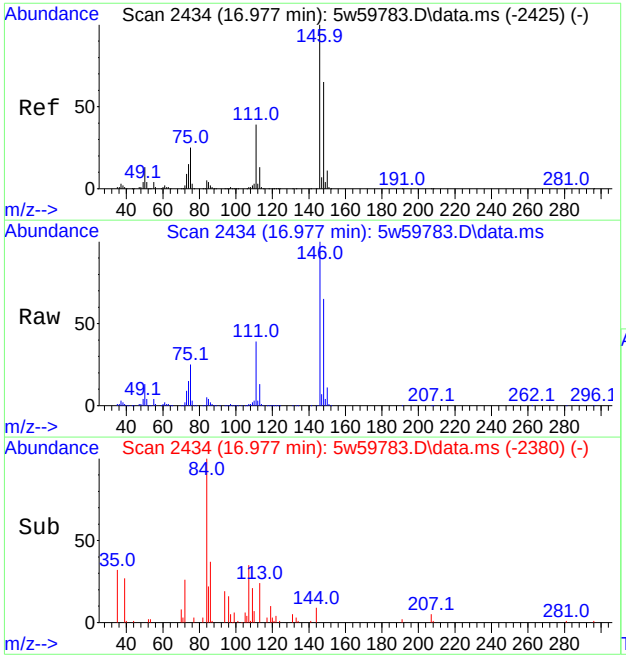


#102
p-ISOPROPYLTOLUENE
Concen: 11.87 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 746734

Ion	Ratio	Lower	Upper
134	100		
119	407.7	377.7	437.7

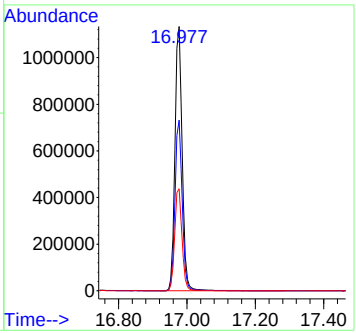


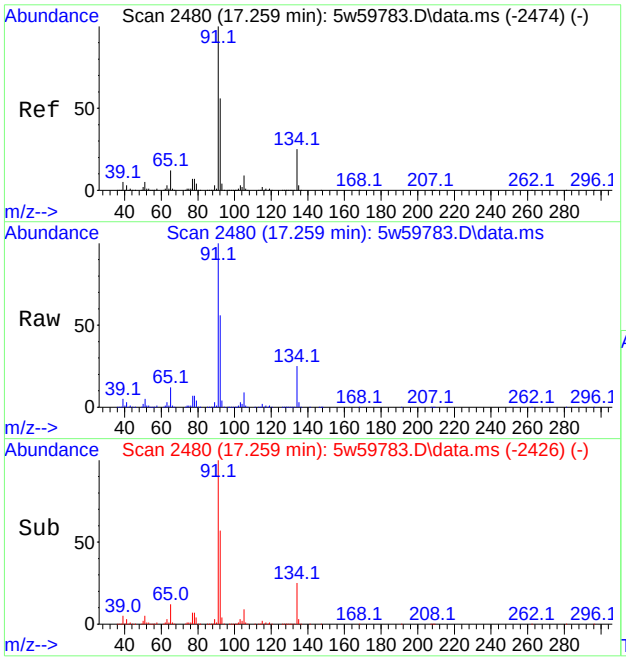


#103
o-DICHLOROBENZENE
Concen: 10.31 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1665215

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.3	94.3
111	39.2	9.2	69.2

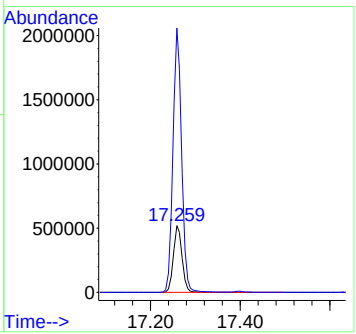


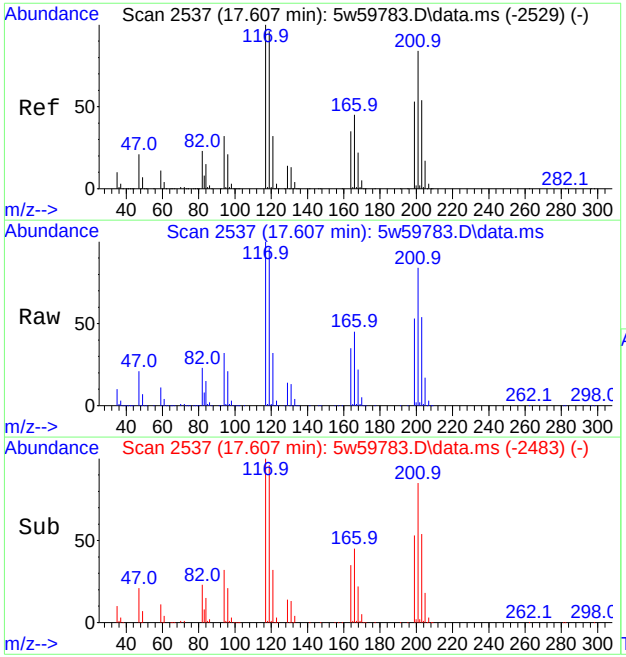


#104
n-BUTYLBENZENE
Concen: 12.21 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 703045

Ion	Ratio	Lower	Upper
134	100		
91	393.1	363.1	423.1

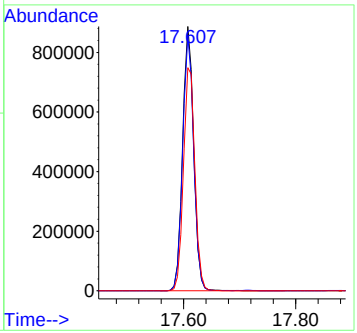


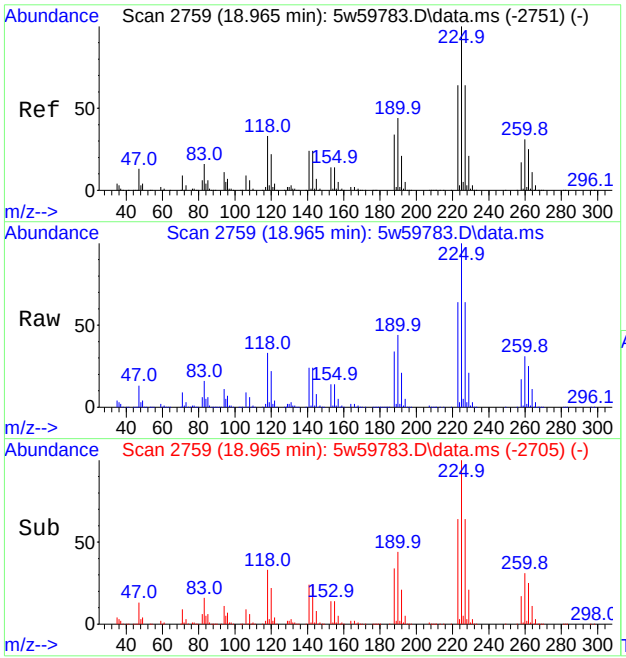


#105
HEXACHLOROETHANE
Concen: 11.22 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1210974

Ion	Ratio	Lower	Upper
117	100		
119	96.0	67.2	124.8
201	87.3	61.1	113.5

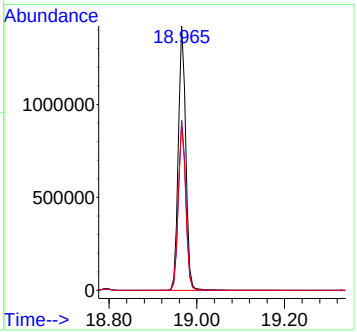


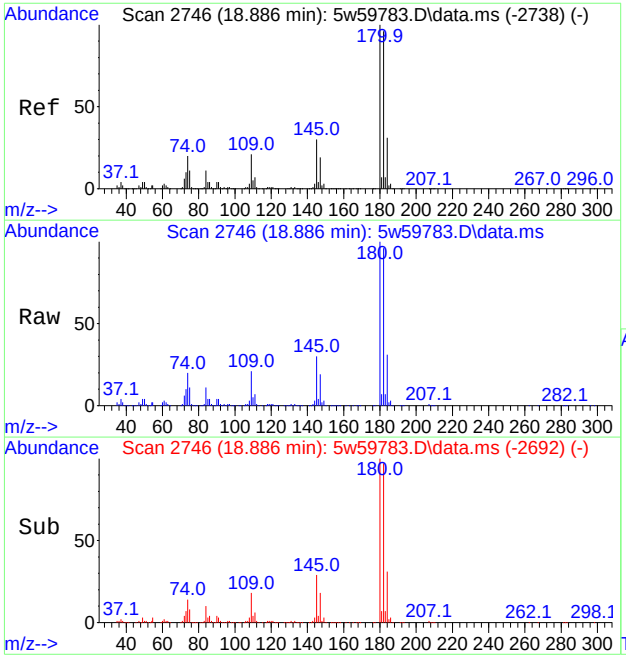


#106
HEXACHLOROBUTADIENE
Concen: 9.84 PPBV
RT: 18.965 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:225 Resp: 1667734

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.3	33.3	93.3

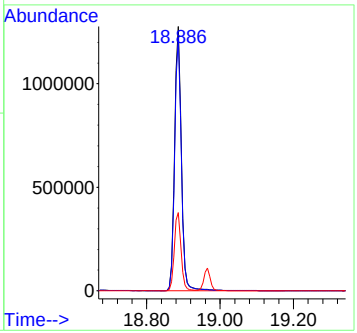


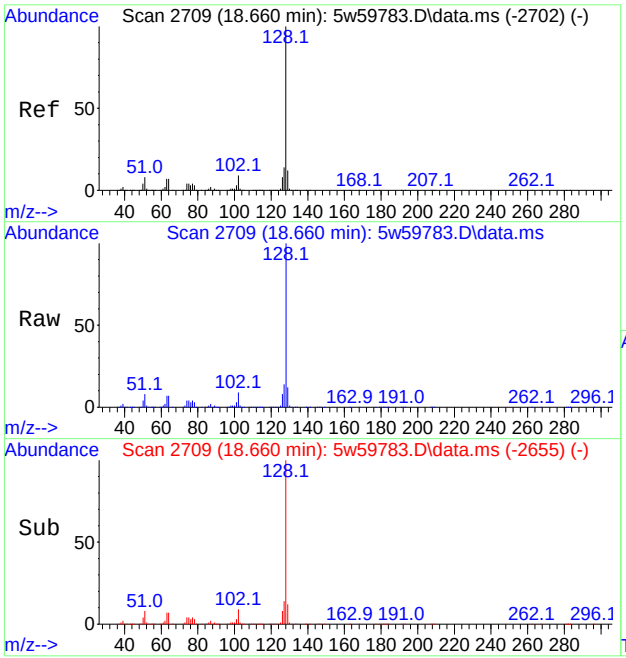


#107
1,2,4-TRICHLOROBENZENE
Concen: 14.54 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:180 Resp: 1638870

Ion	Ratio	Lower	Upper
180	100		
182	95.4	65.4	125.4
145	29.4	0.0	59.4

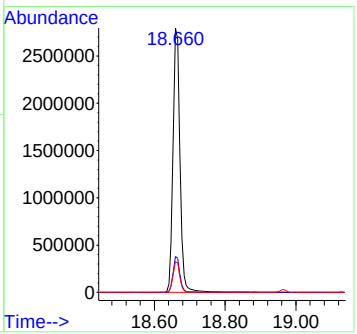


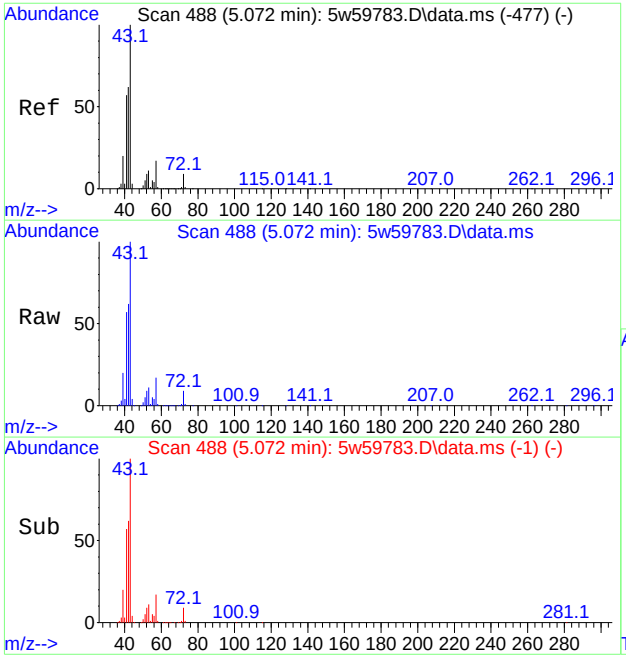


#108
NAPHTHALENE
Concen: 14.35 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:128 Resp: 3829842

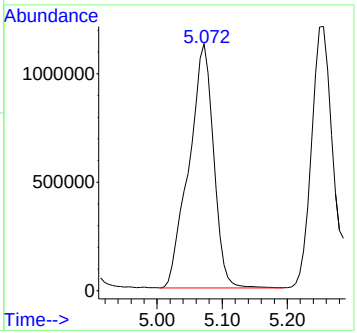
Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	43.3
129	11.4	0.0	41.5





#110
TVHC as equiv Pentane
Concen: 8.08 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:TIC Resp: 2959189



7.7.6

7

Manual Integration Approval Summary

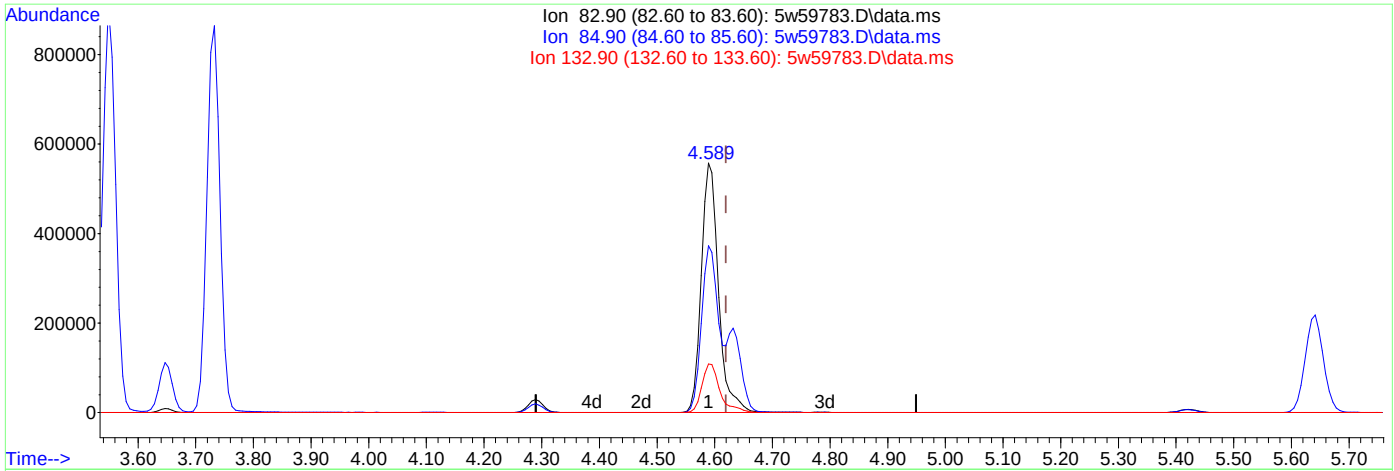
Sample Number: V5W2292-ICC2292 **Method:** TO-15
Lab FileID: 5W59783.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 07:33 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

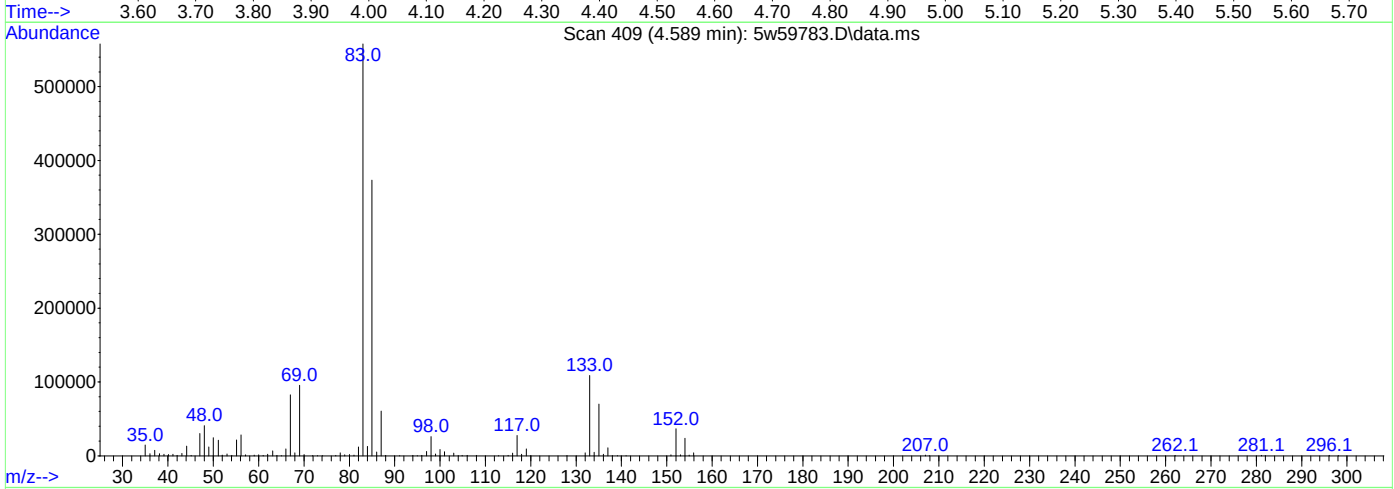
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration





TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (-0.031) 9.91PPBV

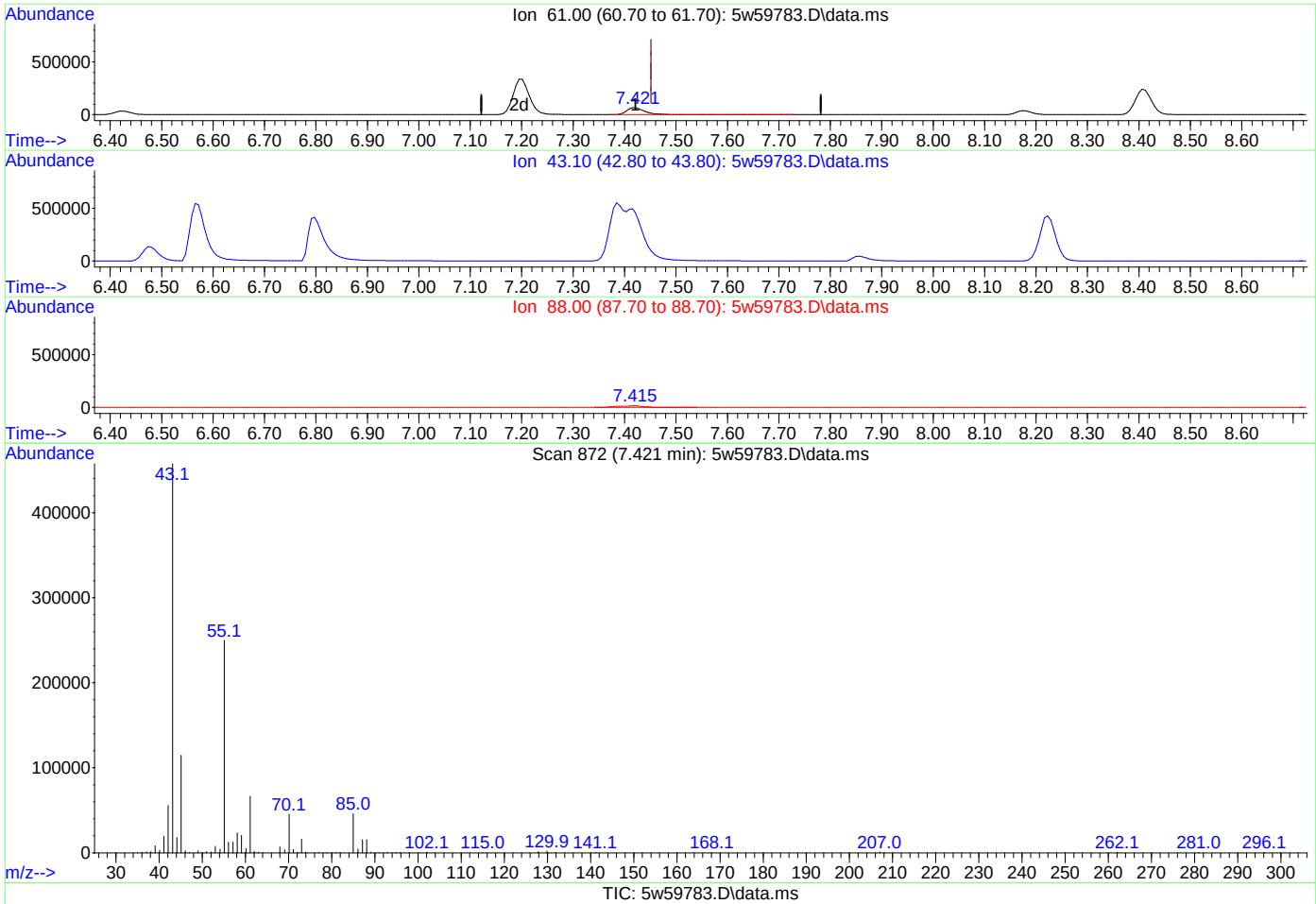
response 1157483

Ion	Exp%	Act%
82.90	100	100
84.90	94.90	94.40
132.90	27.20	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (-0.031) 10.63PPBV

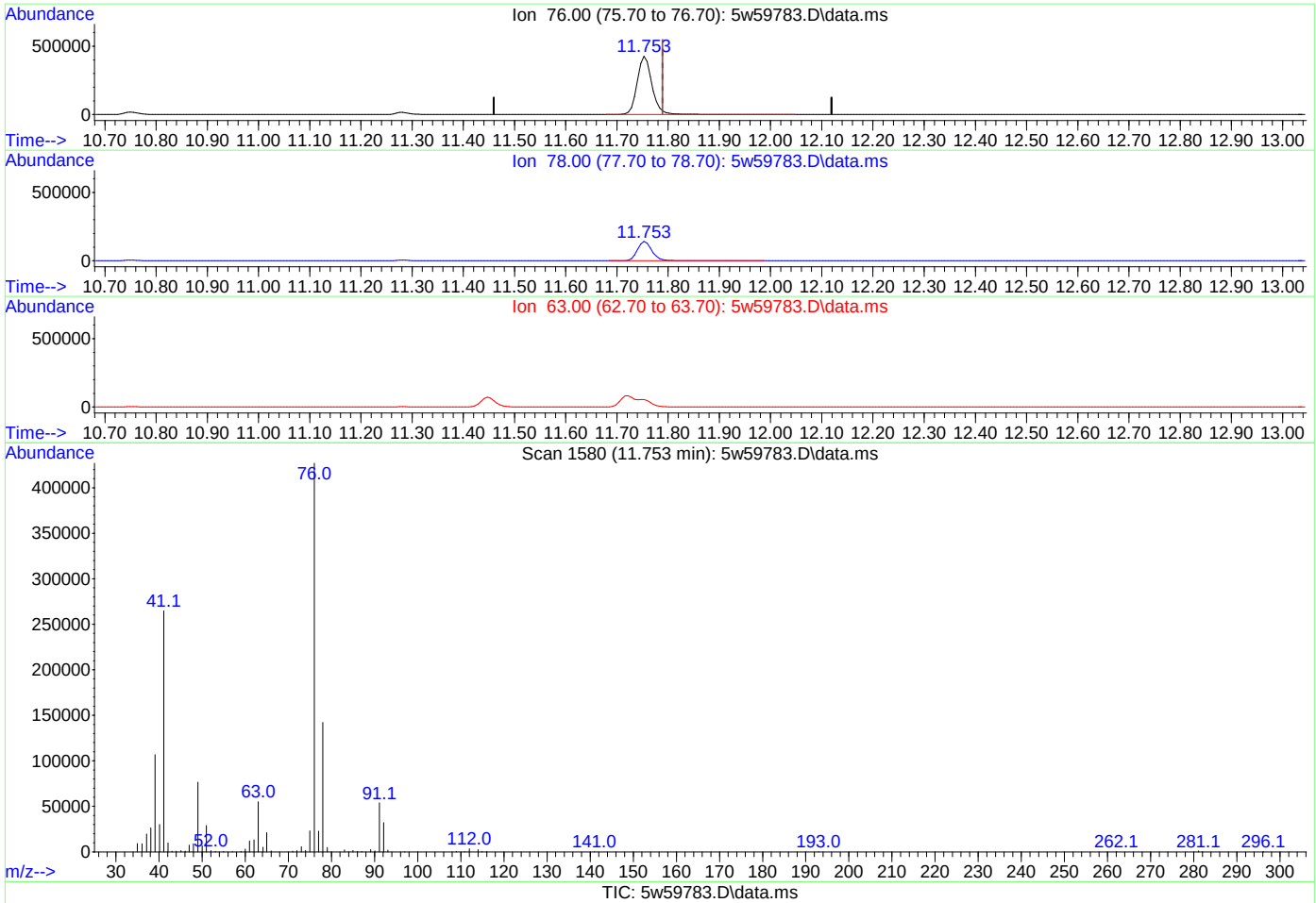
response 169787

Ion	Exp%	Act%
61.00	100	100
43.10	0.00	0.00
88.00	34.00	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (-0.037) 10.74PPBV

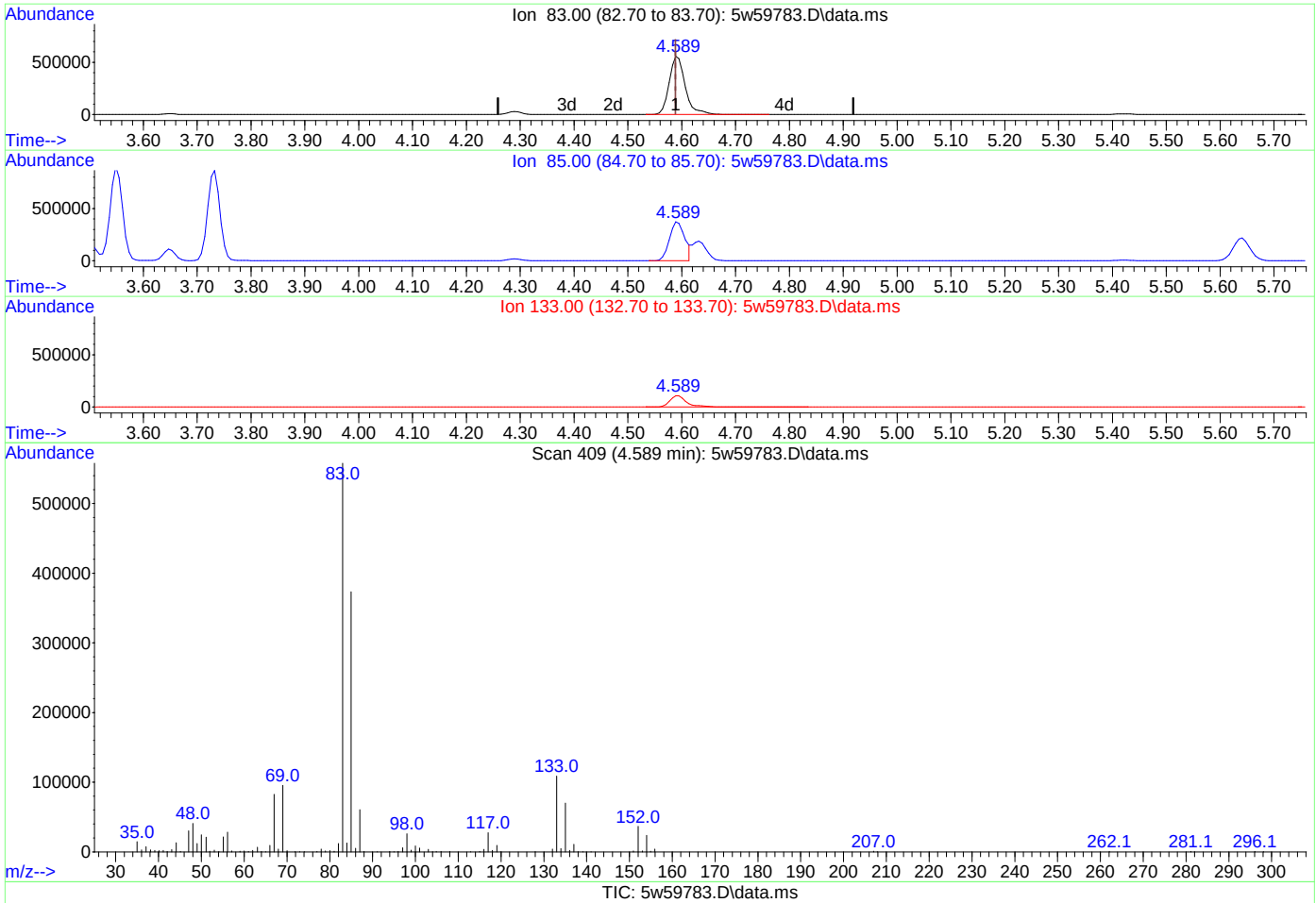
response 865913

Ion	Exp%	Act%
76.00	100	100
78.00	32.00	33.09
63.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (0.000) 9.93PPBV m

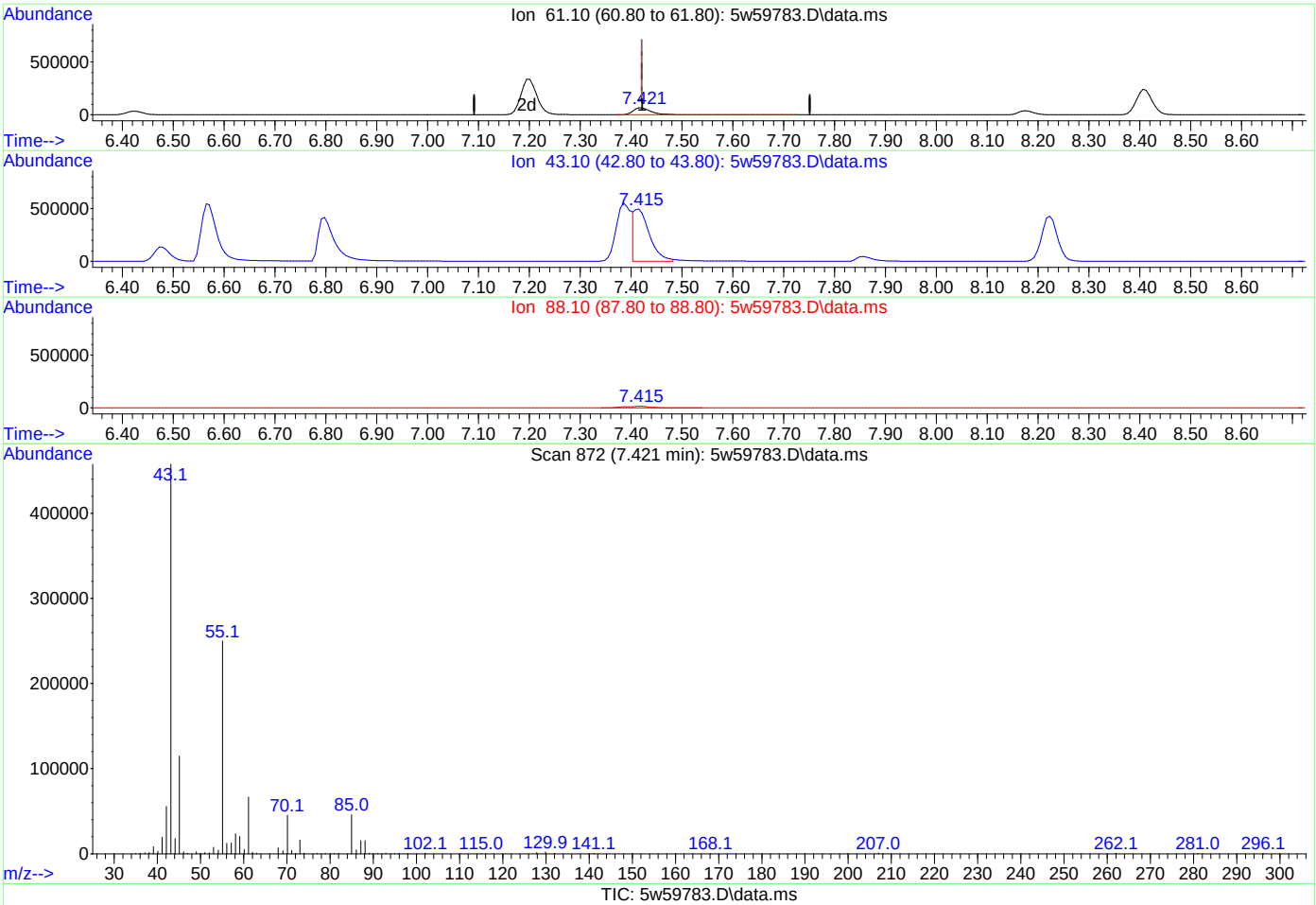
response 1157483

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.96
133.00	20.70	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (0.000) 10.80PPBV m

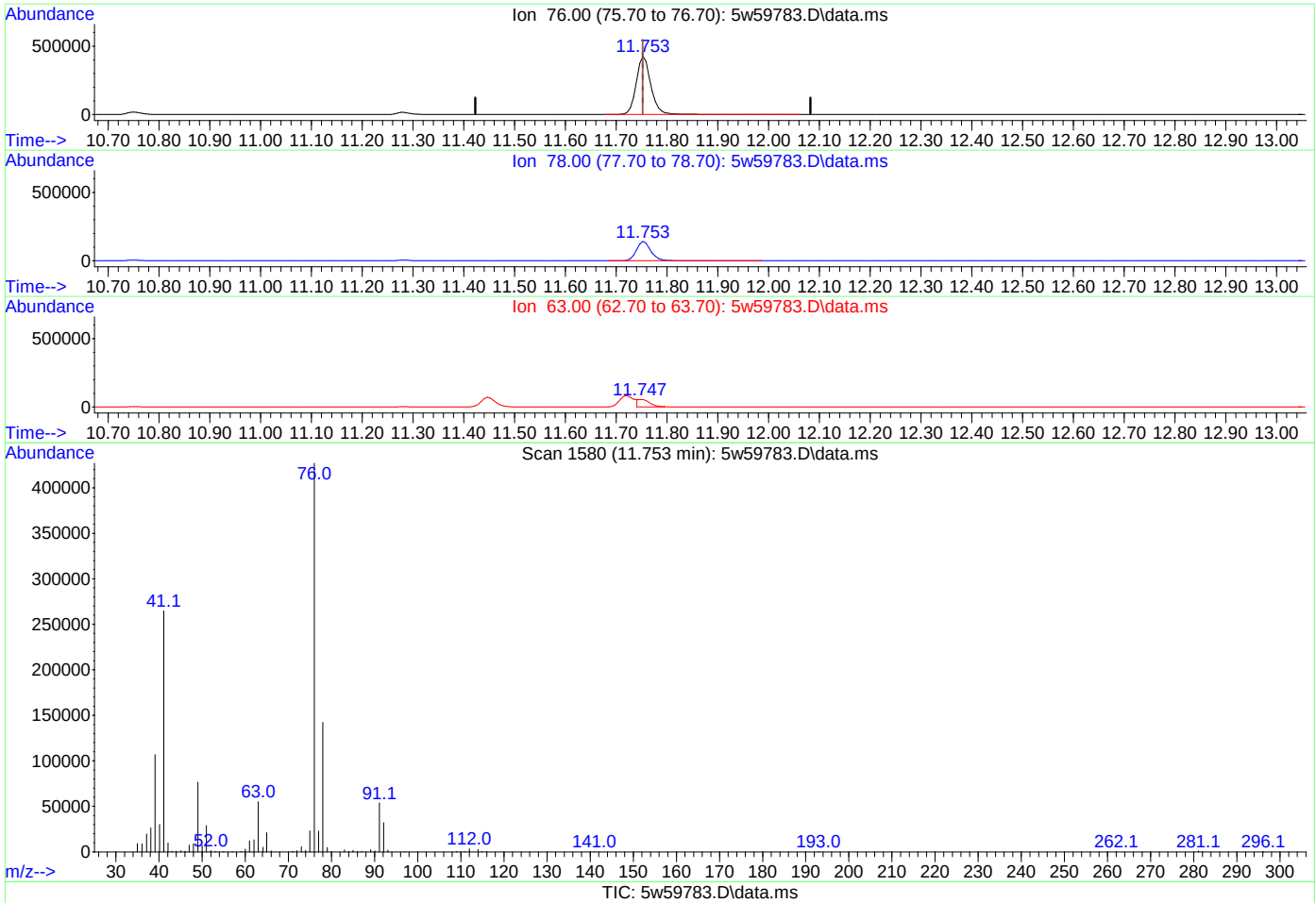
response 169787

Ion	Exp%	Act%
61.10	100	100
43.10	611.30	590.54
88.10	34.50	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (0.000) 10.80PPBV m

response 866163

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.08
63.00	10.30	10.05
0.00	0.00	0.00

5W59784.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	450013	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	1932450	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1113631	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	450746	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1356787	9.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	450963	7.75	PPBV	100
3) FREON 152A	3.445	65	629601	18.20	PPBV	98
4) CHLORODIFLUOROMETHANE	3.476	67	306106	19.32	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	1520054	20.38	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	2793626	18.80	PPBV	99
7) PROPYLENE	3.500	41	679227	17.76	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	2117806	15.73	PPBV	99
9) FREON 114	3.733	85	2612576	20.44	PPBV	99
10) CHLOROMETHANE	3.665	52	274402	17.35	PPBV	100
11) VINYL CHLORIDE	3.818	62	907868	18.27	PPBV	99
12) 1,3-BUTADIENE	3.916	54	526623m	15.76	PPBV	
13) n-BUTANE	3.947	43	848889	14.02	PPBV	99
14) BROMOMETHANE	4.106	94	947413	19.40	PPBV	100
15) CHLOROETHANE	4.228	64	401918	17.76	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1915216	16.60	PPBV	100
17) ACETONITRILE	4.479	41	467576	13.59	PPBV	99
18) ACROLEIN	4.571	56	282182	15.70	PPBV	95
19) FREON 123	4.595	83	2144663m	18.75	PPBV	
20) FREON 123A	4.632	117	1303591	18.34	PPBV	97
21) TRICHLOROFLUOROMETHANE	4.797	101	2321202	14.25	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	1635668	14.11	PPBV	99
23) ACETONE	4.669	58	334468	16.18	PPBV	99
24) PENTANE	5.072	42	880198	14.37	PPBV	99
25) IODOMETHANE	5.256	142	3031933	20.19	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	959349	17.96	PPBV	99
27) CARBON DISULFIDE	5.672	76	2608827	18.51	PPBV	99
28) ETHANOL	4.320	45	298730	13.05	PPBV	99
29) BROMOETHENE	4.485	106	957242	20.43	PPBV	100
30) ACRYLONITRILE	5.042	52	624246	17.51	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	836157	17.45	PPBV	98
32) 3-CHLOROPROPENE	5.525	76	430205	19.53	PPBV	96
33) FREON 113	5.641	151	1722837	18.38	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	990650	18.16	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.372	59	1868378	16.33	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	2584253	19.14	PPBV	99
37) TETRAHYDROFURAN	7.850	72	399188	22.19	PPBV	98
38) HEXANE	7.385	57	1526495	20.27	PPBV	96
39) VINYL ACETATE	6.571	86	179566	19.94	PPBV #	89
40) 1,1-DICHLOROETHANE	6.424	63	1823762	18.32	PPBV	100
41) METHYL ETHYL KETONE	6.791	72	430294	22.94	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	1068157	19.00	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	472029	23.11	PPBV	94
44) ETHYL ACETATE	7.415	61	340212m	22.04	PPBV	
45) METHYL ACRYLATE	7.409	55	1885856	21.07	PPBV	99
46) CHLOROFORM	7.483	83	2134176	18.57	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	1747860	19.75	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.413	97	2289683	18.23	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	2555242	18.43	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	1561332	19.15	PPBV		100
52)	BENZENE	8.853	78	2903342	22.68	PPBV		100
53)	CYCLOHEXANE	9.110	84	1139585	22.41	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.355	71	573637	22.39	PPBV		100
55)	TRICHLOROETHYLENE	9.893	95	1474907	21.65	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	1173566	21.61	PPBV		100
57)	DIBROMOMETHANE	9.636	174	1578012	21.13	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	2306359	23.37	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	2548286	21.01	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	4564310	20.94	PPBV		99
61)	1,4-DIOXANE	9.893	88	653321	24.77	PPBV	#	20
62)	HEPTANE	10.187	43	1555190	19.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	1000168	25.22	PPBV		99
64)	METHYL ISOBUTYL KETONE	10.786	58	969468	23.79	PPBV		97
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1985103	23.56	PPBV		97
66)	TOLUENE	11.722	92	2187710	23.93	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	1738240m	22.65	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	1772531	22.91	PPBV		98
69)	1,1,2-TRICHLOROETHANE	11.447	83	1196566	23.91	PPBV		100
71)	2-HEXANONE	12.004	58	1425280	25.09	PPBV		96
72)	ETHYL METHACRYLATE	12.022	69	1817206	25.28	PPBV		97
73)	TETRACHLOROETHYLENE	12.879	164	1702539	20.29	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	2900352	20.55	PPBV		99
75)	1,2-DIBROMOETHANE	12.395	107	2366337	22.95	PPBV		100
76)	OCTANE	12.744	43	2238080	18.84	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	1899714	20.52	PPBV		100
78)	CHLOROBENZENE	13.582	112	3046547	20.02	PPBV		99
79)	ETHYLBENZENE	13.986	91	4800136	22.00	PPBV		99
80)	m,p-XYLENE	14.188	106	3838940	46.33	PPBV		95
81)	o-XYLENE	14.683	106	1866956	24.57	PPBV		98
82)	STYRENE	14.573	104	2939414	25.25	PPBV		99
83)	NONANE	14.934	43	2271246	19.27	PPBV		98
84)	BROMOFORM	14.249	173	3083788	21.19	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	3171683	23.67	PPBV		99
87)	1,2,3-TRICHLOROPROPANE	14.818	75	2166410	19.01	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	5426205	21.38	PPBV		99
89)	BROMOBENZENE	15.375	77	2635582	19.84	PPBV		99
90)	2-CHLOROTOLUENE	15.772	126	1458347	21.55	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	1498983	22.21	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	5359201	23.50	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	4517483	21.37	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	2401651	23.73	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1027177	23.44	PPBV		95
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	4619537	22.68	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	3436542	21.01	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	4433280	23.83	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	3529112	20.84	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	1236753	22.03	PPBV		92
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	4652009	21.34	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	1464768	22.76	PPBV		94
103)	o-DICHLOROBENZENE	16.977	146	3353483	20.30	PPBV		99
104)	n-BUTYLBENZENE	17.265	134	1447206	24.56	PPBV		93
105)	HEXACHLOROETHANE	17.608	117	2435886	22.06	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	3259497	18.79	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	3337105	28.94	PPBV		100
108)	NAPHTHALENE	18.666	128	7329968	26.85	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	5936529	16.52	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

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

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

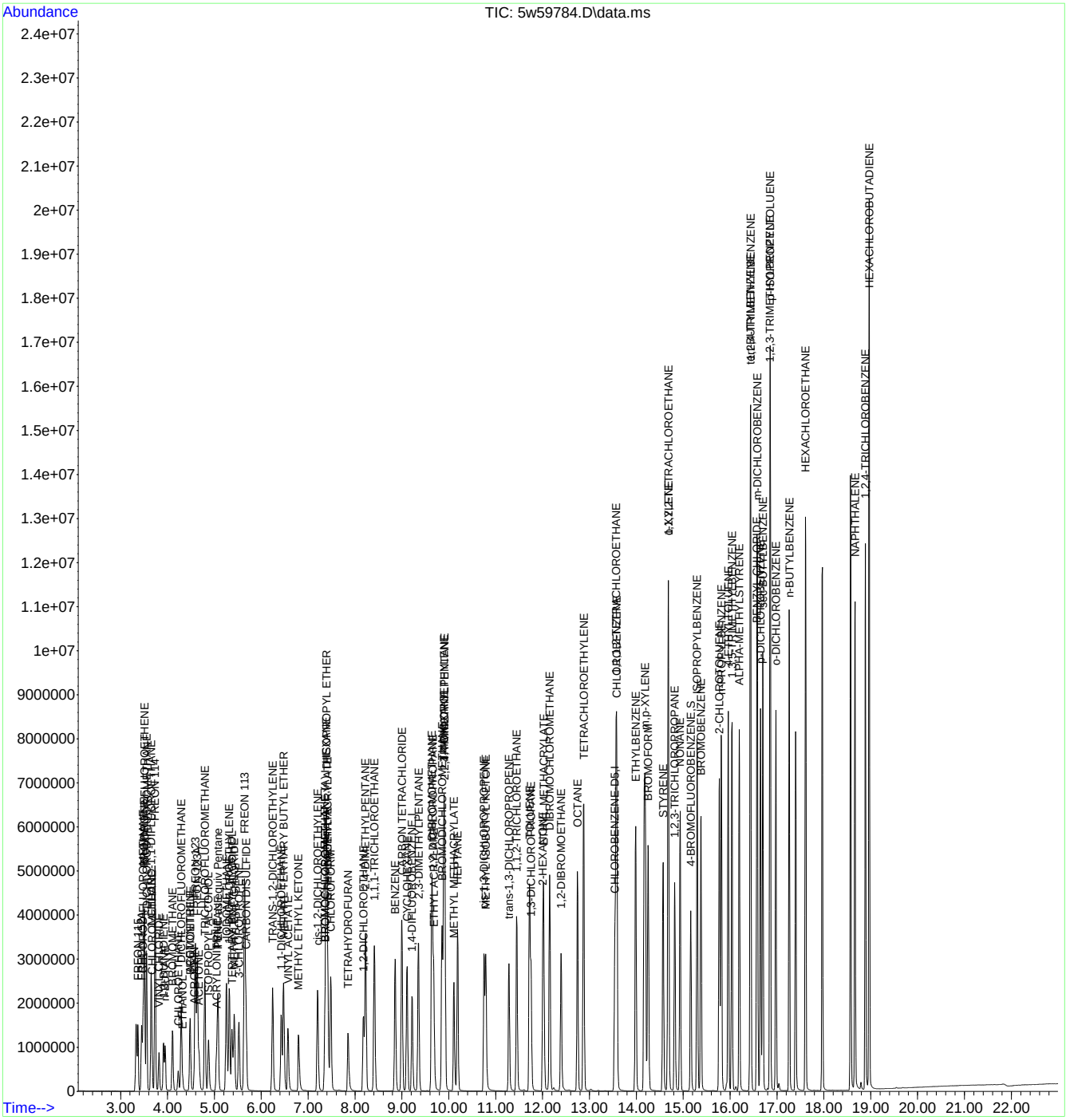
7.2.7

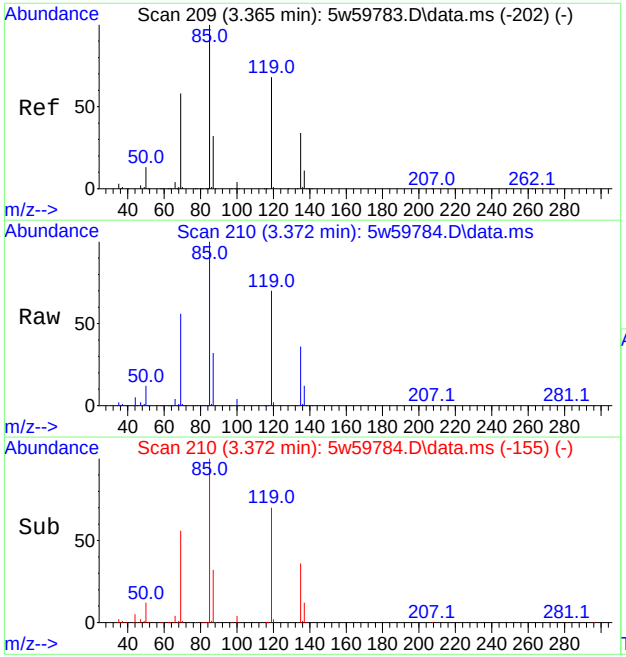
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

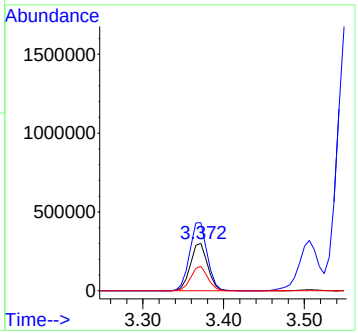


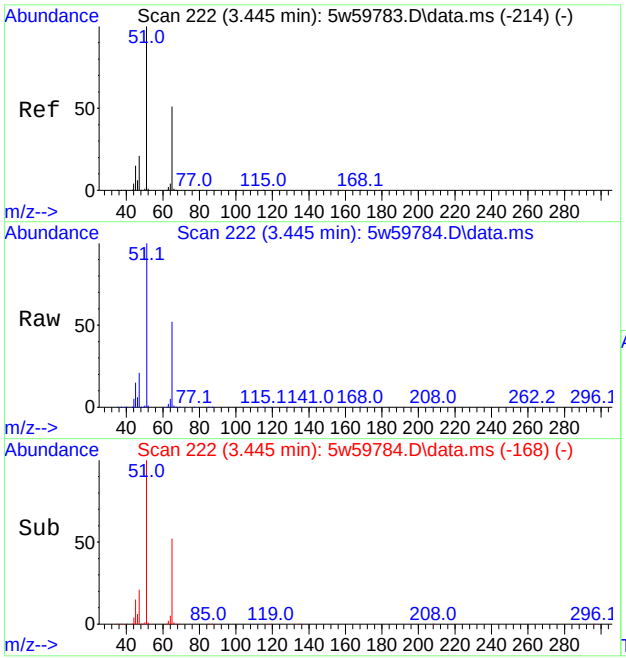


#2
FREON 115
Concen: 7.75 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:119 Resp: 450963

Ion	Ratio	Lower	Upper
119	100		
85	146.0	116.2	176.2
135	50.3	20.6	80.6

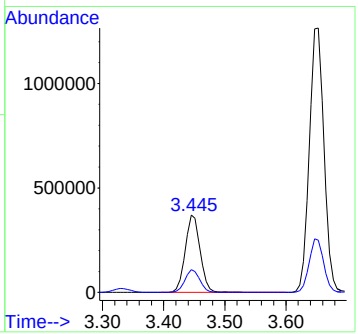


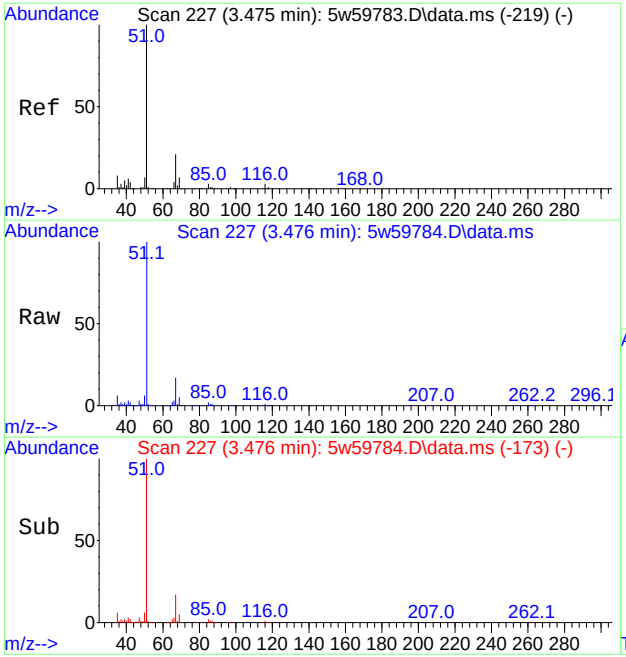


#3
FREON 152A
Concen: 18.20 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 629601

Ion	Ratio	Lower	Upper
65	100		
45	29.1	0.0	60.0

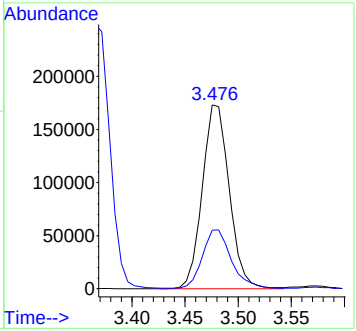


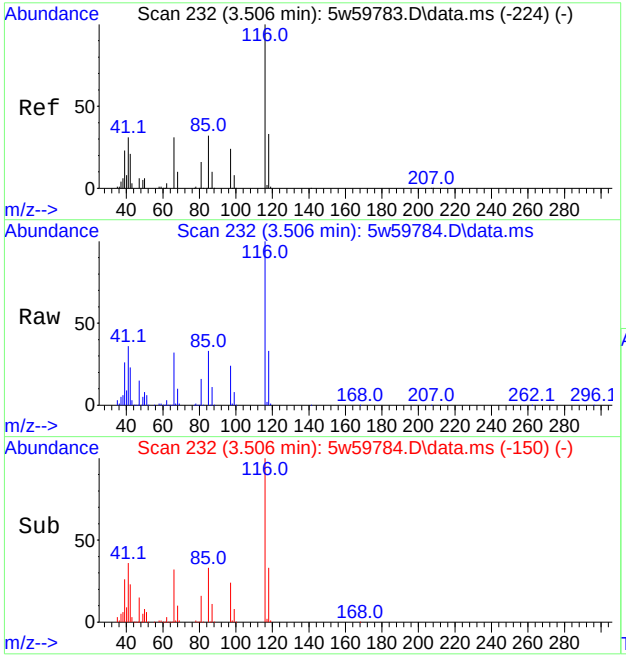


#4
CHLORODIFLUOROMETHANE
Concen: 19.32 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 306106

Ion	Ratio	Lower	Upper
67	100		
69	31.9	1.0	61.0

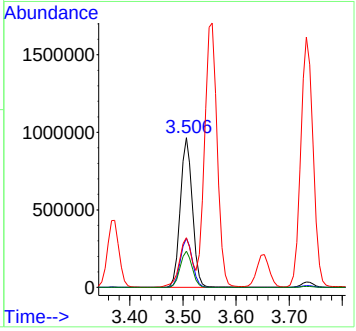


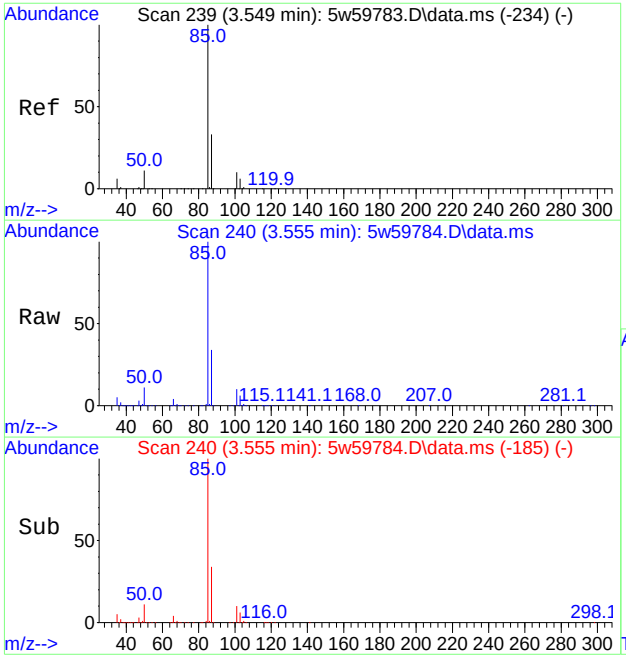


#5
CHLOROTRIFLUOROETHENE
Concen: 20.38 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:116 Resp: 1520054

Ion	Ratio	Lower	Upper
116	100		
118	32.8	22.9	42.5
85	35.4	23.7	44.1
97	24.2	17.0	31.6

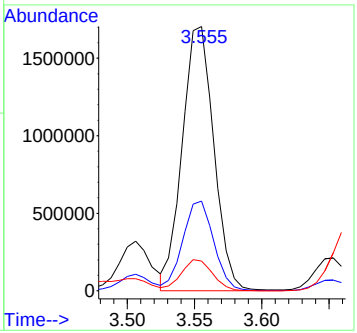


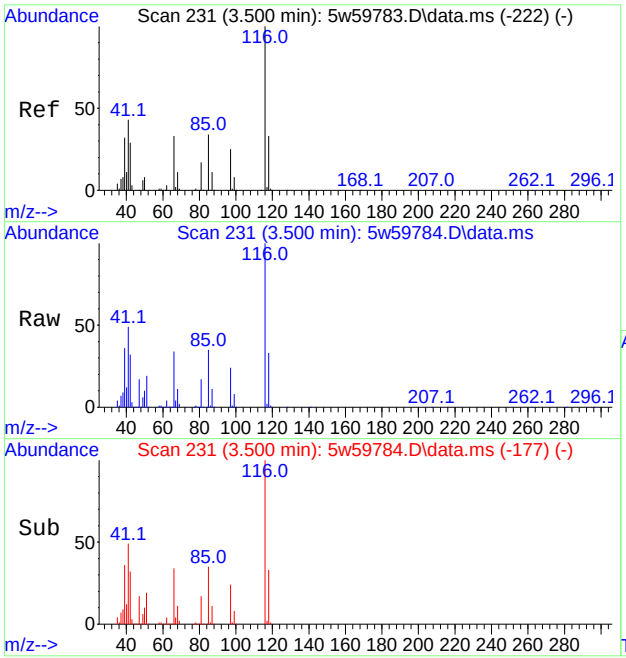


#6
DICHLORODIFLUOROMETHANE
Concen: 18.80 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2793626

Ion	Ratio	Lower	Upper
85	100		
87	33.4	2.5	62.5
50	11.7	0.0	41.7

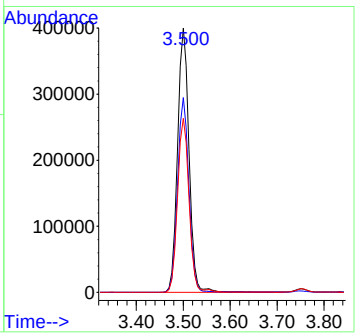


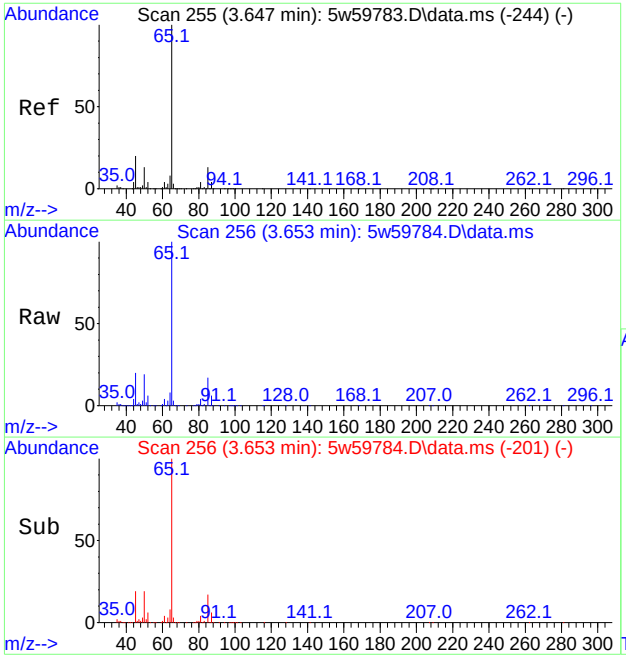


#7
PROPYLENE
Concen: 17.76 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 679227

Ion	Ratio	Lower	Upper
41	100		
39	73.5	45.1	105.1
42	66.1	36.3	96.3

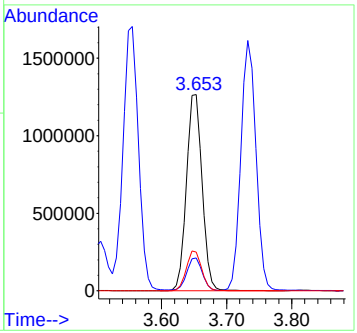


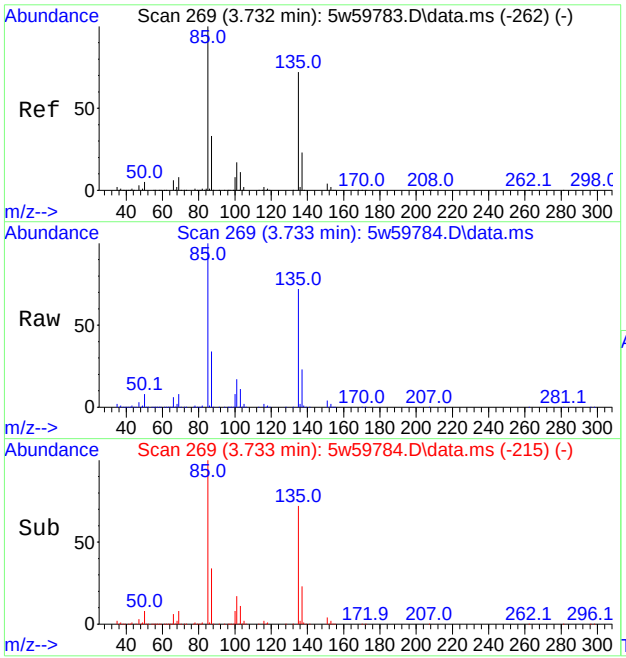


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 15.73 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 2117806

Ion	Ratio	Lower	Upper
65	100		
85	16.6	11.5	21.3
45	20.2	14.0	26.0

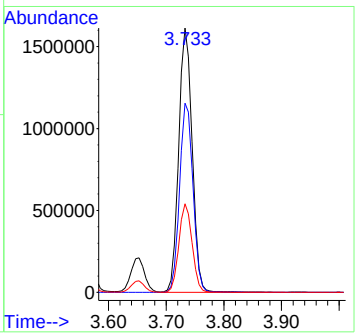


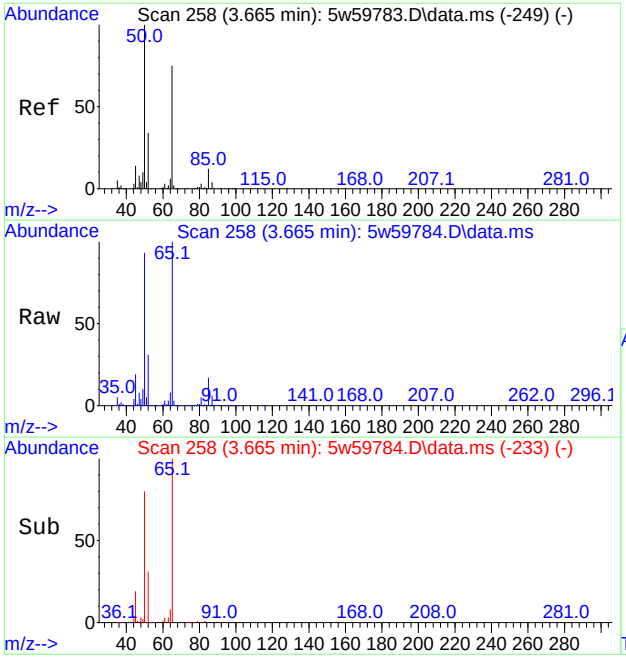


#9
FREON 114
Concen: 20.44 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2612576

Ion	Ratio	Lower	Upper
85	100		
135	71.9	40.5	100.5
87	33.3	3.0	63.0

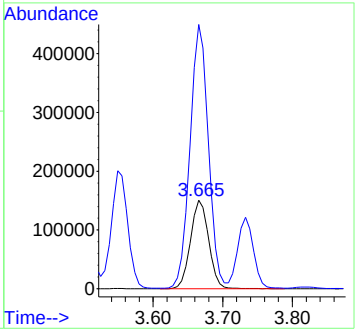


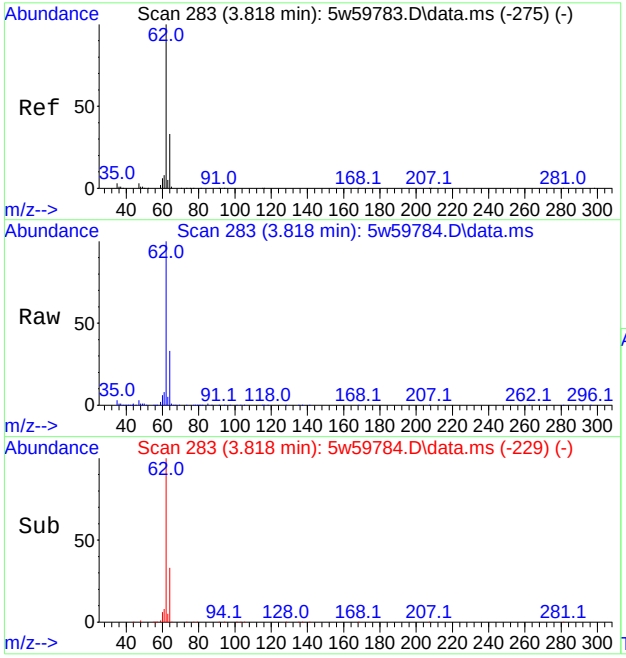


#10
CHLOROMETHANE
Concen: 17.35 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 274402

Ion	Ratio	Lower	Upper
52	100		
50	298.2	267.9	327.9

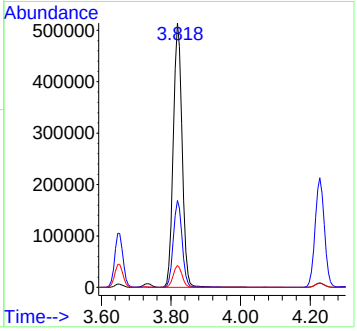


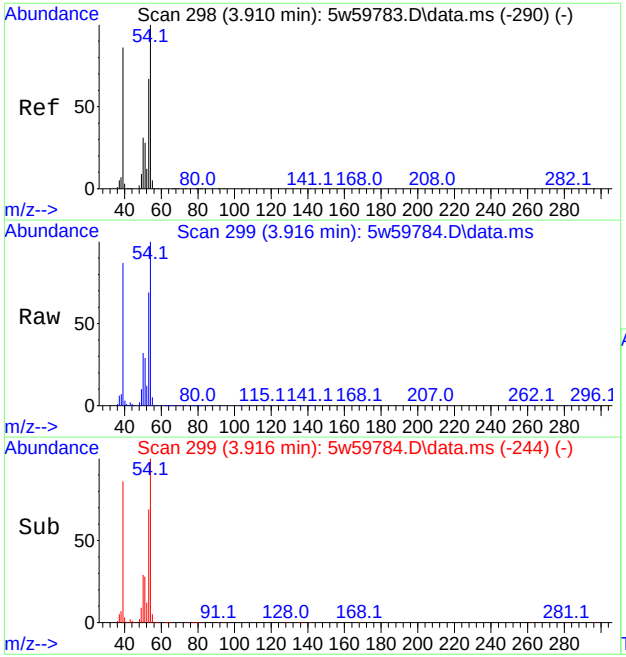


#11
VINYL CHLORIDE
Concen: 18.27 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 907868

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.3	0.0	38.2

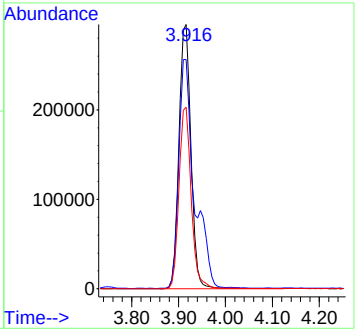


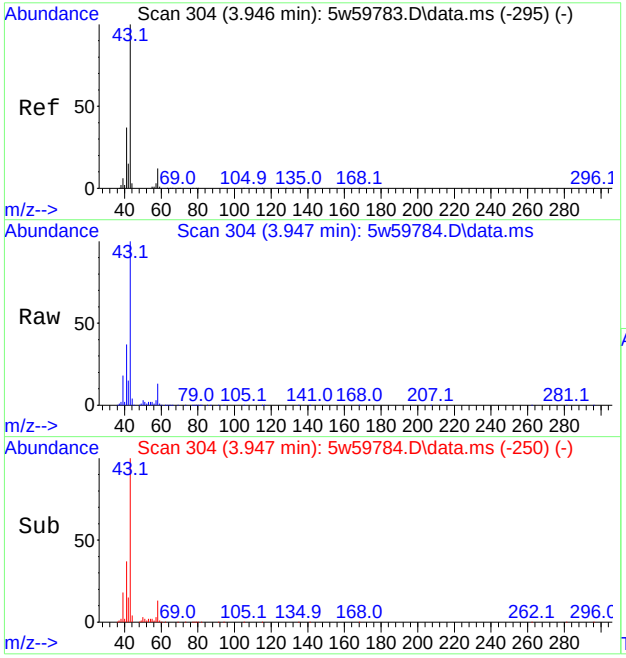


#12
1,3-BUTADIENE
Concen: 15.76 PPBV m
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 54 Resp: 526623

Ion	Ratio	Lower	Upper
54	100		
39	93.3	82.0	142.0
53	70.7	40.2	100.2

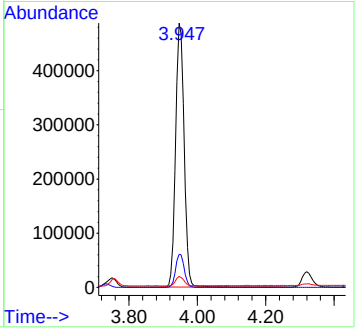


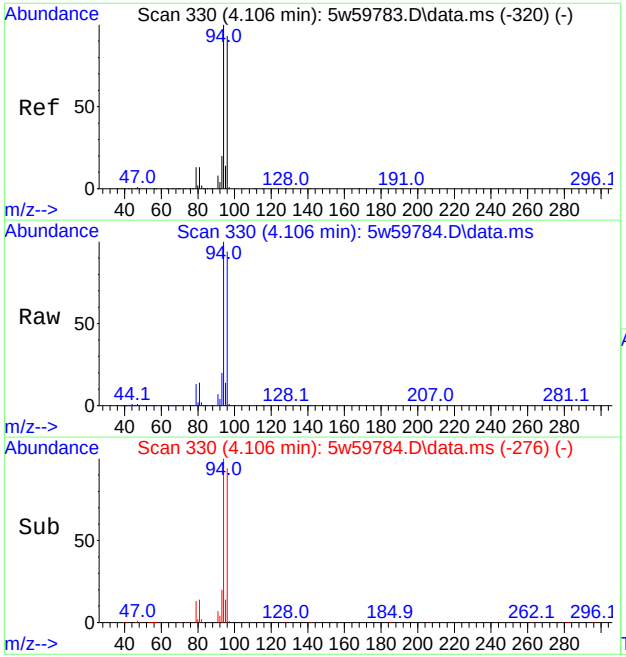


#13
n-BUTANE
Concen: 14.02 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 848889

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	3.5	0.0	34.9

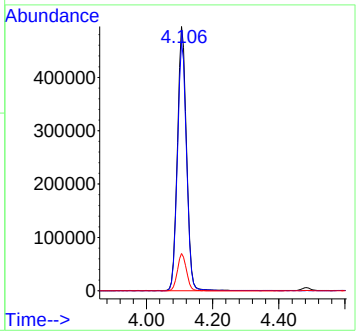


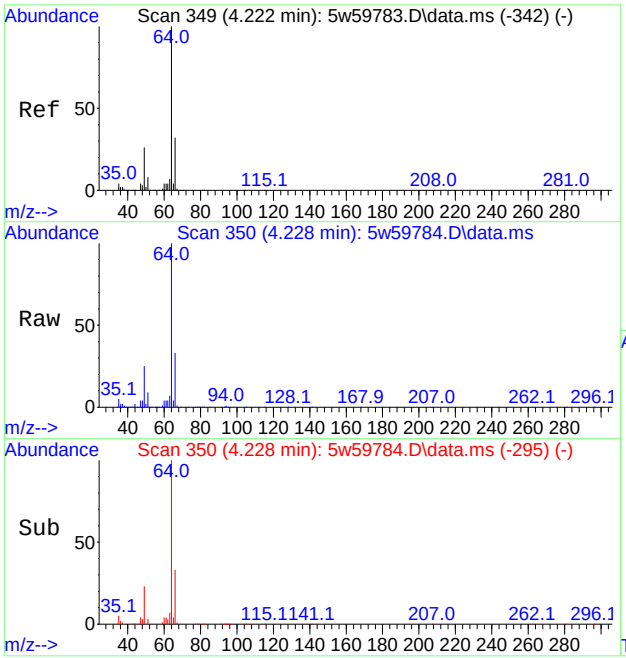


#14
BROMOMETHANE
Concen: 19.40 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 94 Resp: 947413

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

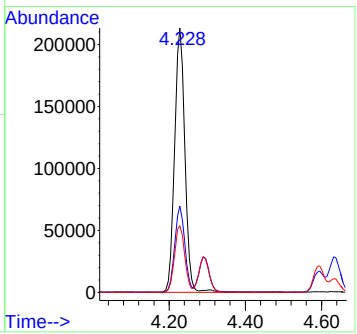


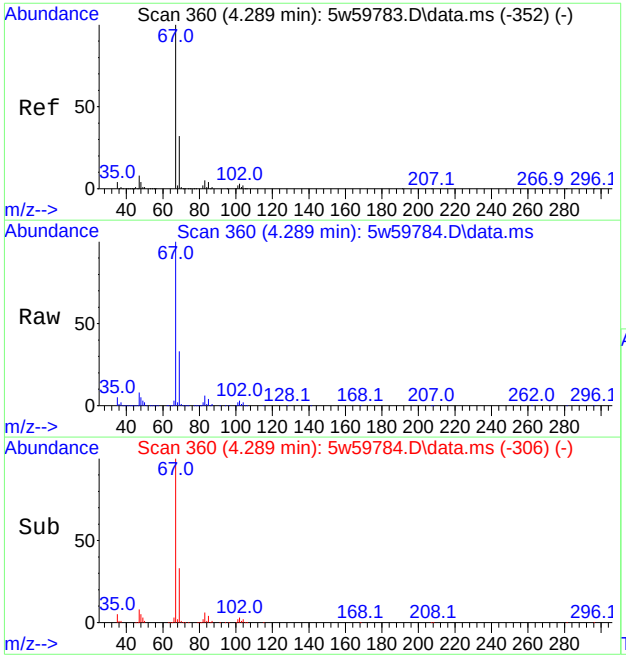


#15
CHLOROETHANE
Concen: 17.76 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 64 Resp: 401918

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

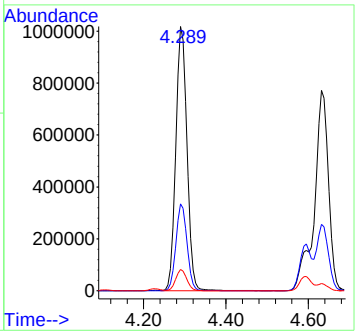


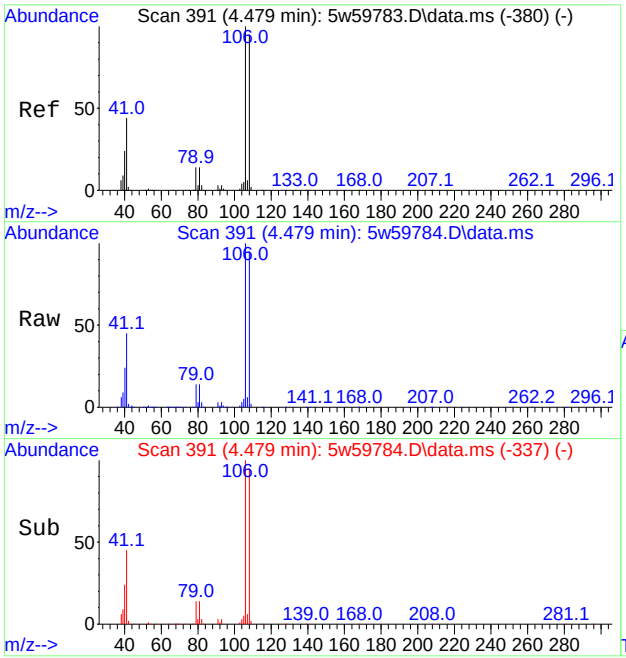


#16
DICHLOROFLUOROMETHANE
Concen: 16.60 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 1915216

Ion	Ratio	Lower	Upper
67	100		
69	32.8	22.7	42.3
47	8.1	5.6	10.4

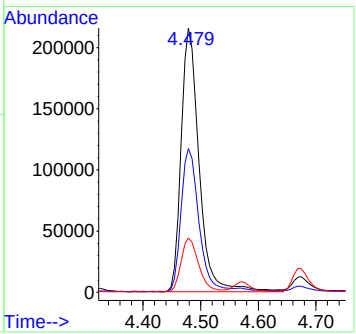


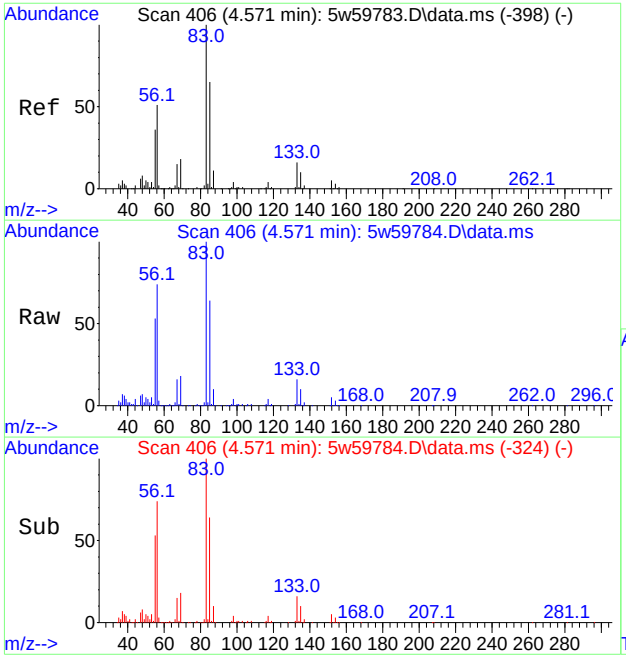


#17
ACETONITRILE
Concen: 13.59 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 467576

Ion	Ratio	Lower	Upper
41	100		
40	54.4	37.9	70.5
39	19.7	13.4	24.8

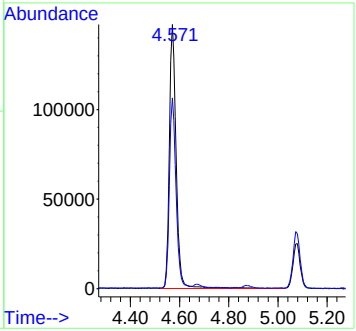


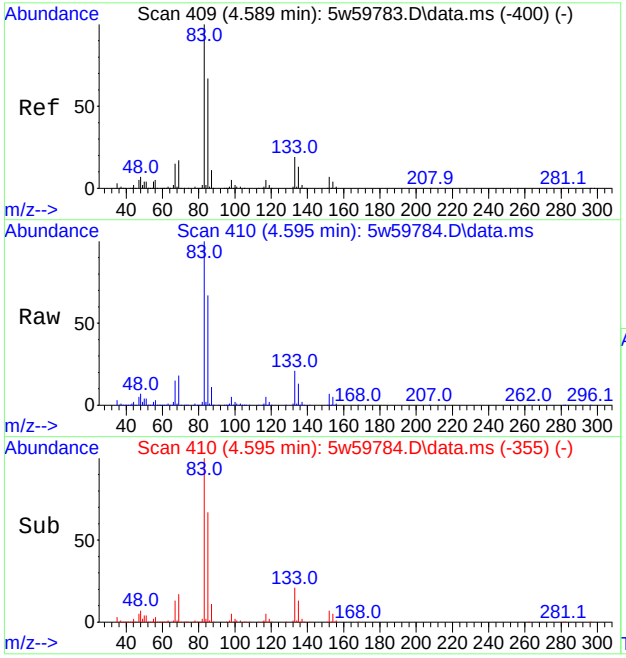


#18
ACROLEIN
Concen: 15.70 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 56 Resp: 282182

Ion	Ratio	Lower	Upper
56	100		
55	70.3	46.6	86.6

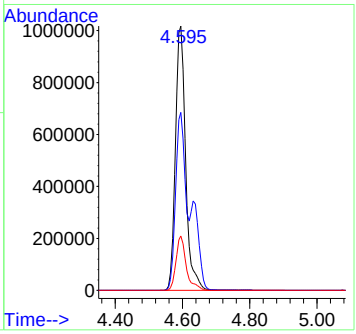


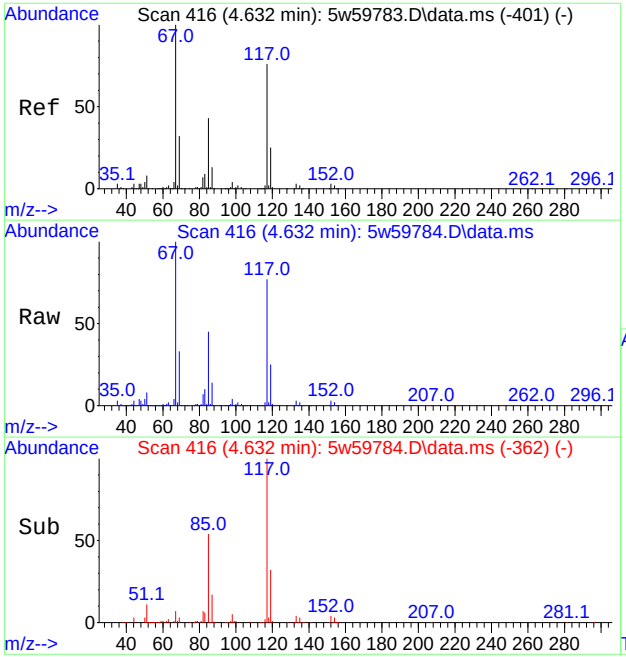


#19
FREON 123
Concen: 18.75 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2144663

Ion	Ratio	Lower	Upper
83	100		
85	66.7	34.0	94.0
133	20.9	0.0	50.7

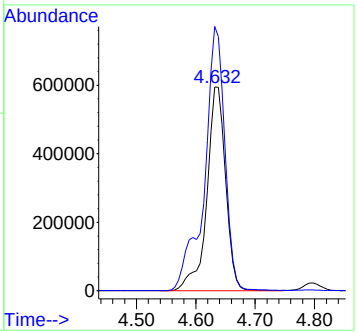


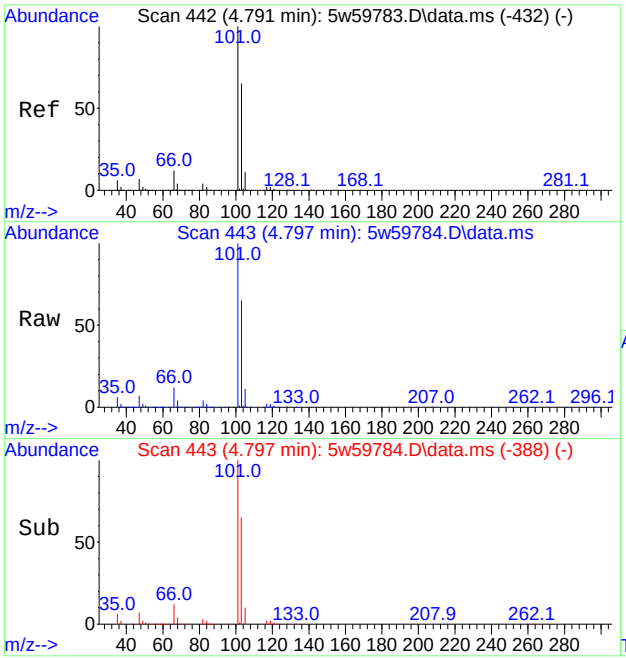


#20
FREON 123A
Concen: 18.34 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 1303591

Ion	Ratio	Lower	Upper
117	100		
67	141.5	114.6	174.6

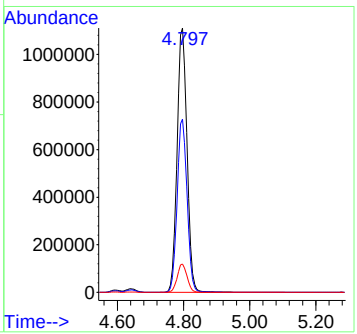


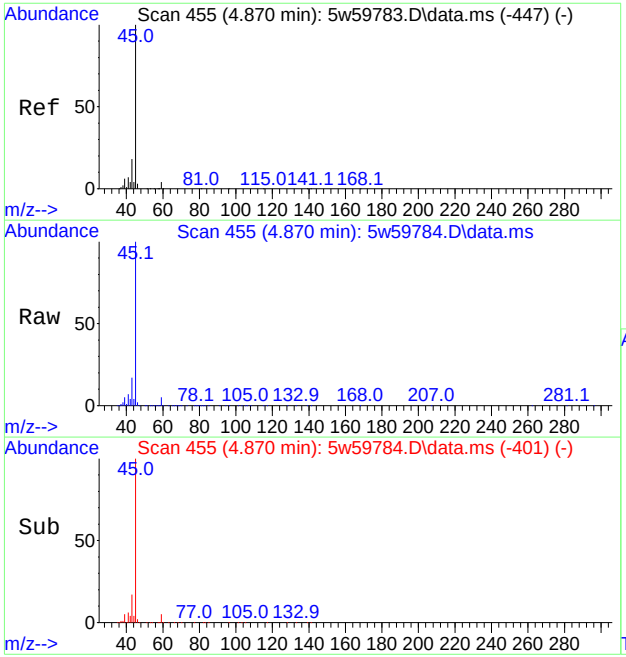


#21
TRICHLOROFLUOROMETHANE
Concen: 14.25 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:101 Resp: 2321202

Ion	Ratio	Lower	Upper
101	100		
103	65.6	35.0	95.0
105	10.8	0.0	40.7

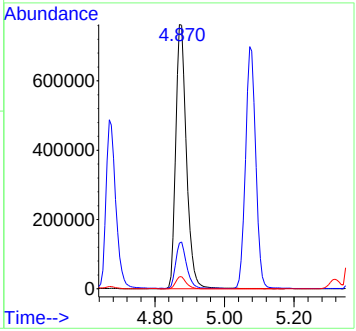


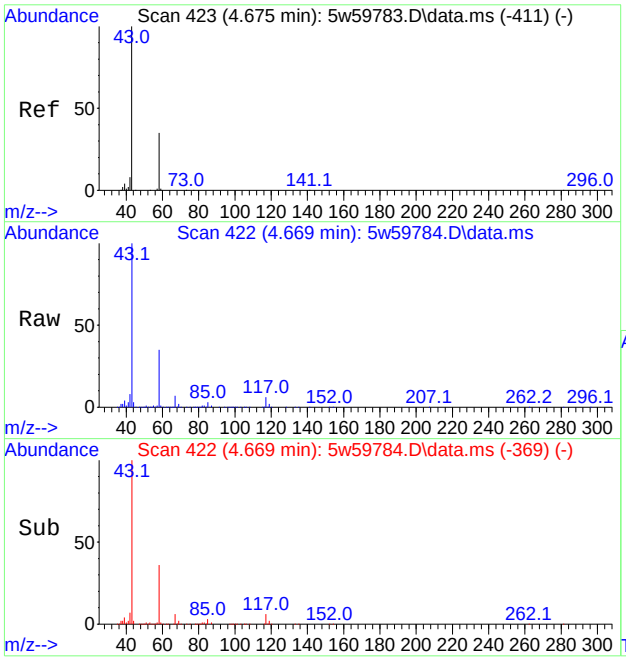


#22
ISOPROPYL ALCOHOL
Concen: 14.11 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 1635668

Ion	Ratio	Lower	Upper
45	100		
43	17.2	0.0	47.8
59	4.6	0.0	34.1

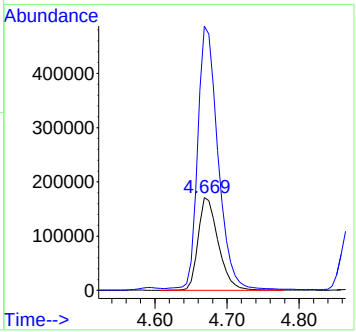


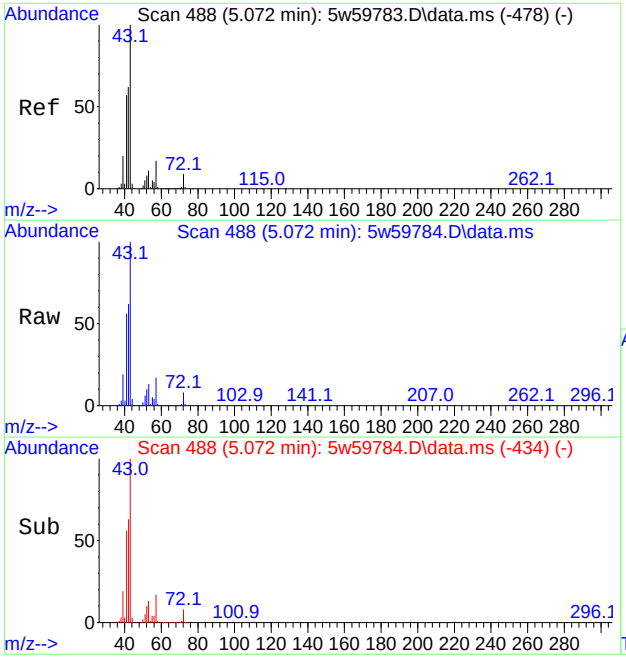


#23
ACETONE
Concen: 16.18 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 334468

Ion	Ratio	Lower	Upper
58	100		
43	284.6	252.3	312.3

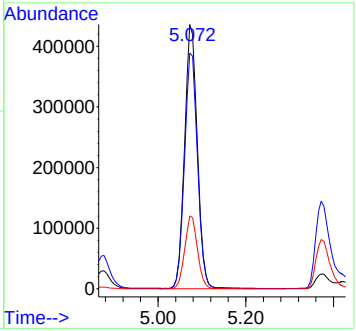


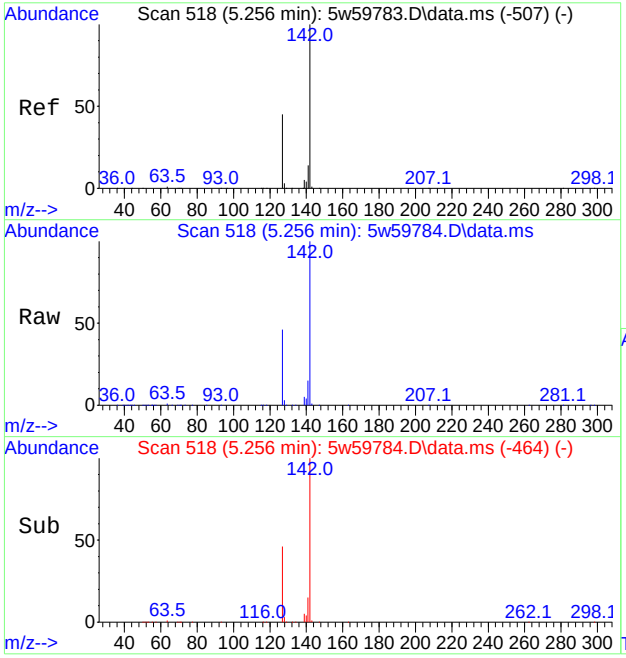


#24
PENTANE
Concen: 14.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 42 Resp: 880198

Ion	Ratio	Lower	Upper
42	100		
41	91.2	62.3	122.3
57	27.8	0.0	57.7

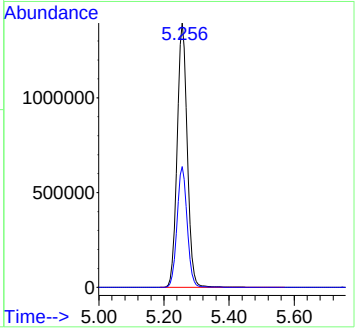


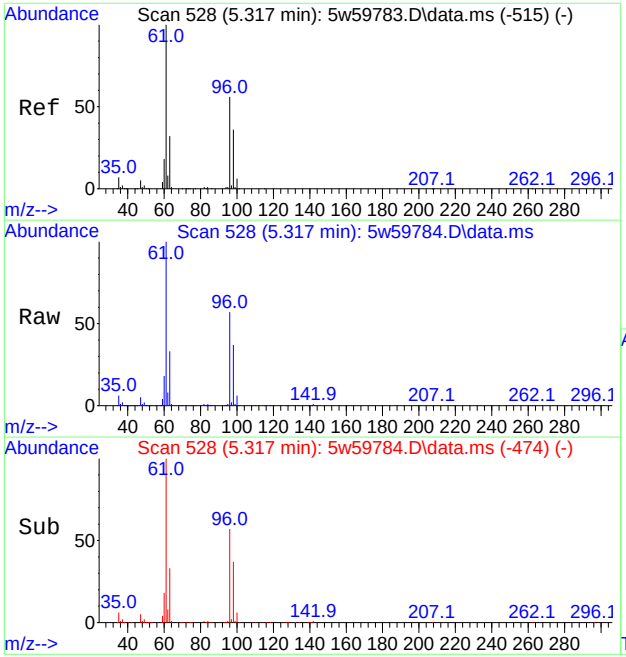


#25
IODOMETHANE
Concen: 20.19 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:142 Resp: 3031933

Ion	Ratio	Lower	Upper
142	100		
127	45.9	16.0	76.0

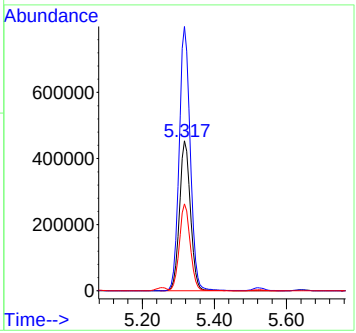


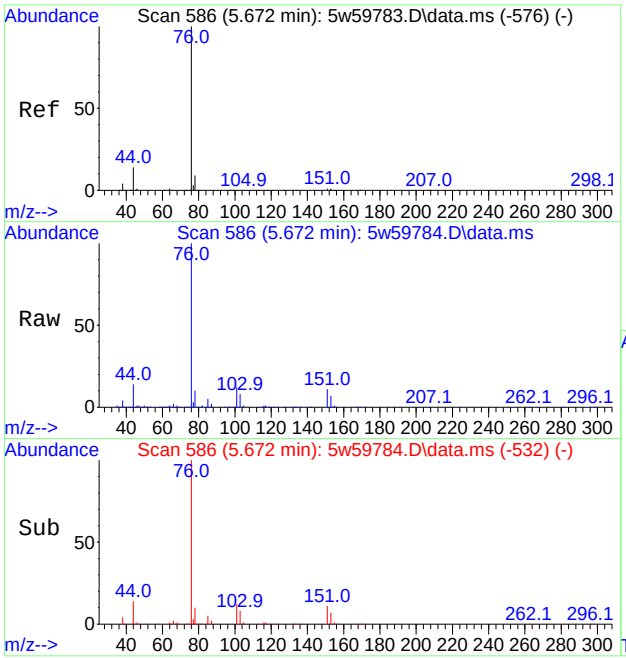


#26
1,1-DICHLOROETHYLENE
Concen: 17.96 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 959349

Ion	Ratio	Lower	Upper
96	100		
61	177.3	148.5	208.5
63	57.4	27.4	87.4

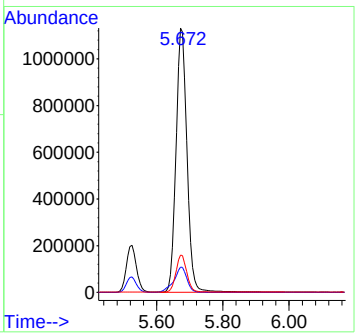


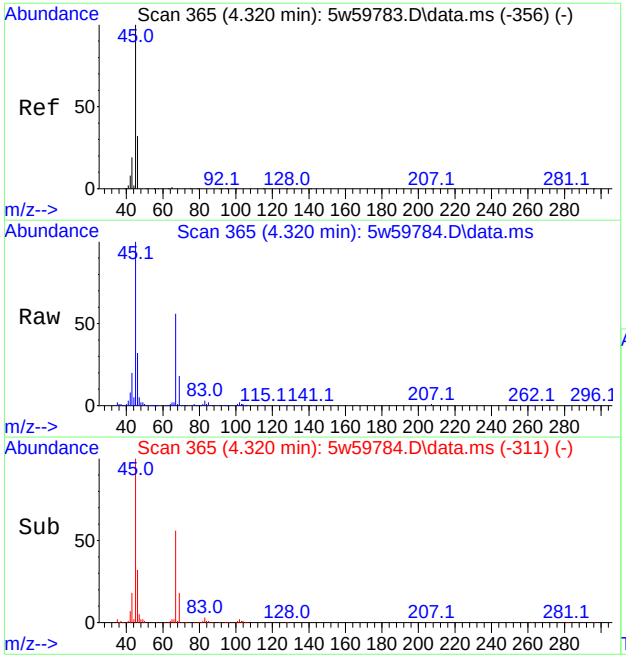


#27
CARBON DISULFIDE
Concen: 18.51 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 2608827

Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	41.5
44	14.0	0.0	44.6

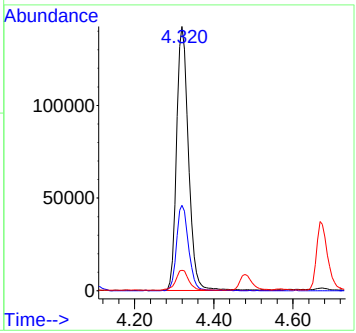


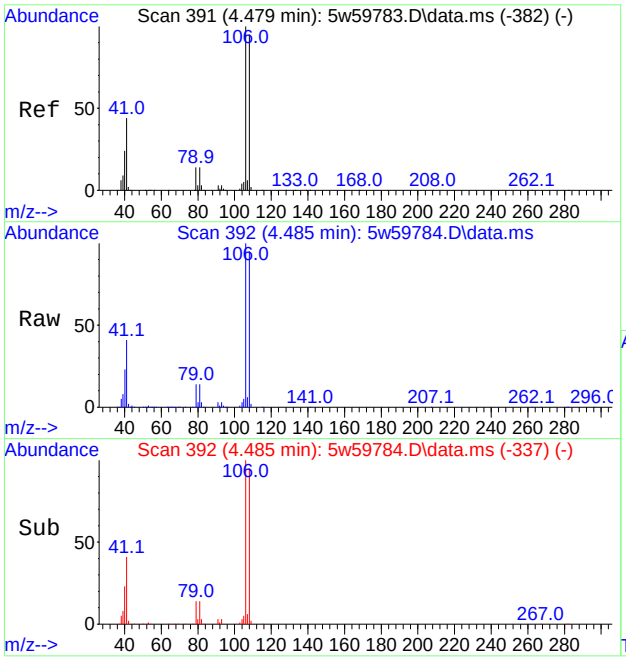


#28
ETHANOL
Concen: 13.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 298730

Ion	Ratio	Lower	Upper
45	100		
46	32.8	2.0	62.0
42	8.4	0.0	38.5

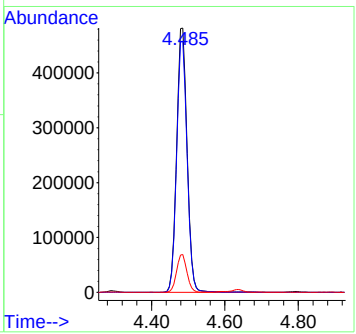


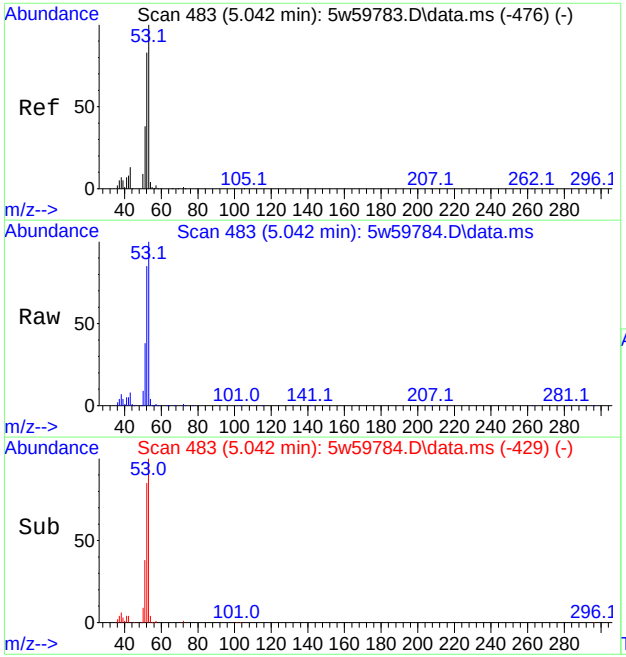


#29
BROMOETHENE
Concen: 20.43 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 957242

Ion	Ratio	Lower	Upper
106	100		
108	95.3	65.6	125.6
81	14.2	0.0	43.9

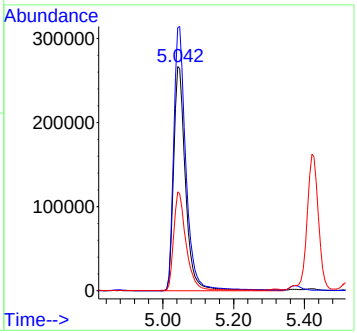


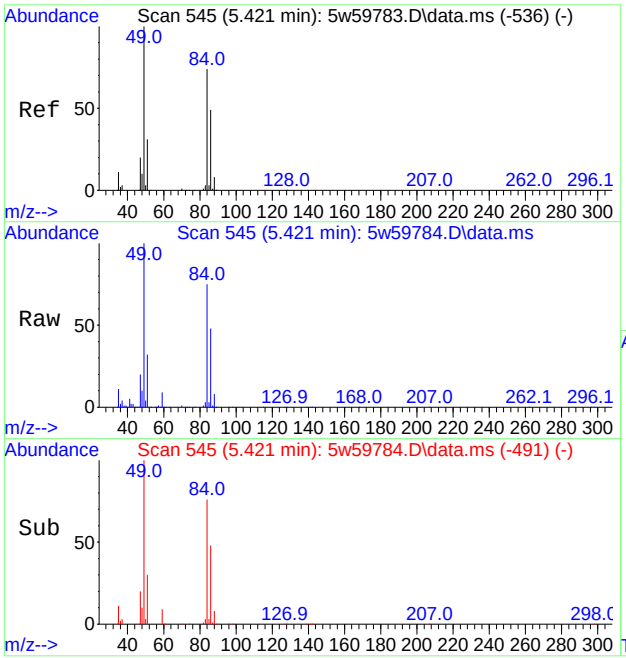


#30
ACRYLONITRILE
Concen: 17.51 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 624246

Ion	Ratio	Lower	Upper
52	100		
53	121.1	85.8	159.4
51	45.8	32.3	60.1

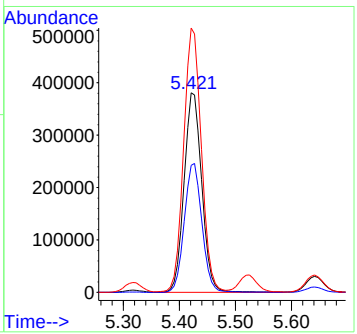


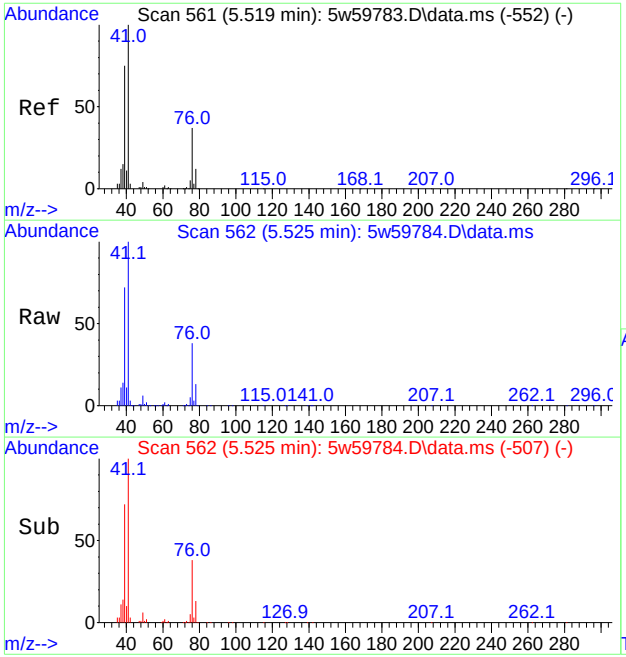


#31
METHYLENE CHLORIDE
Concen: 17.45 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 836157

Ion	Ratio	Lower	Upper
84	100		
86	64.4	35.2	95.2
49	132.4	105.3	165.3

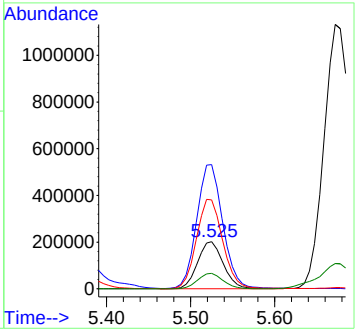


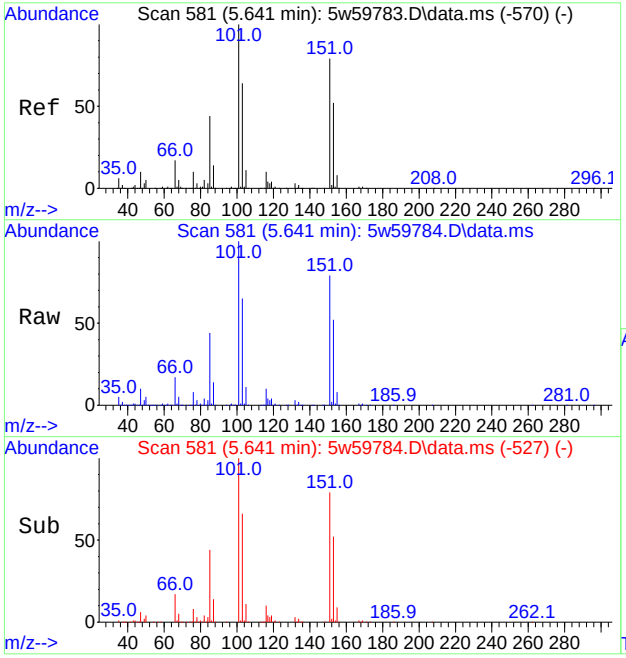


#32
3-CHLOROPROPENE
Concen: 19.53 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 430205

Ion	Ratio	Lower	Upper
76	100		
41	267.1	240.8	300.8
39	193.9	173.6	233.6
78	32.7	2.8	62.8

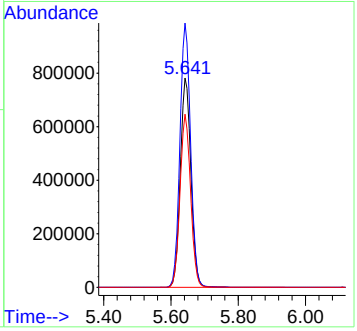


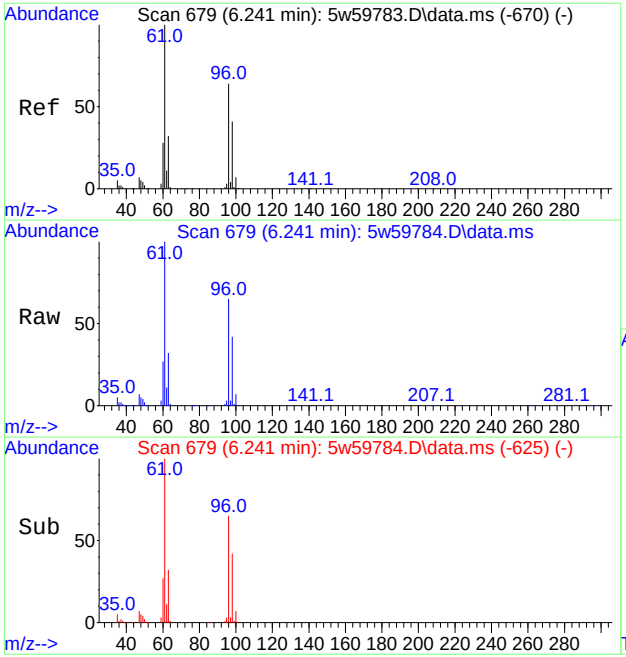


#33
FREON 113
Concen: 18.38 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:151 Resp: 1722837

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	82.1	52.5	112.5

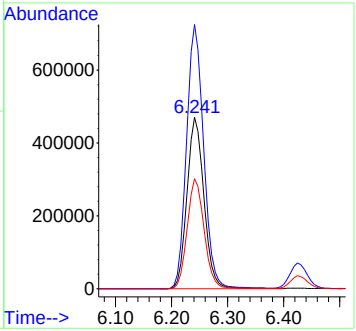


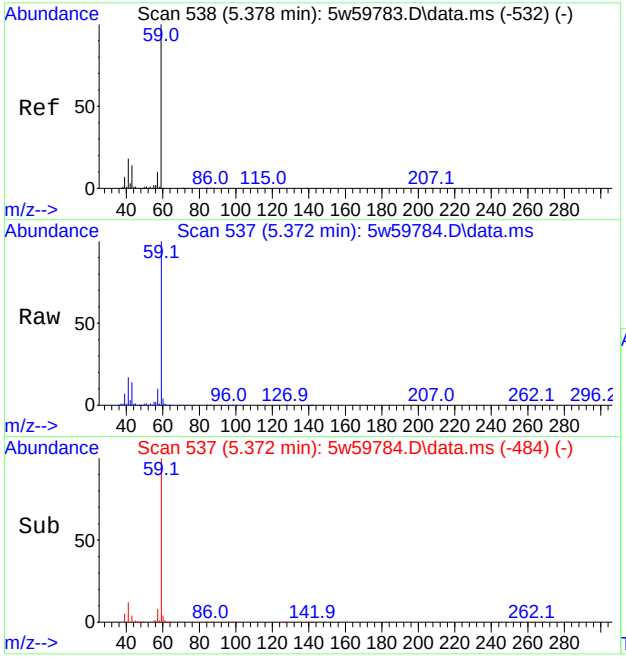


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 18.16 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 990650

Ion	Ratio	Lower	Upper
96	100		
61	155.3	126.4	186.4
98	64.1	34.1	94.1

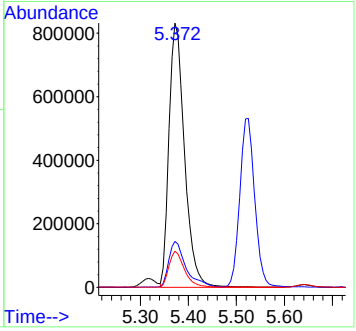


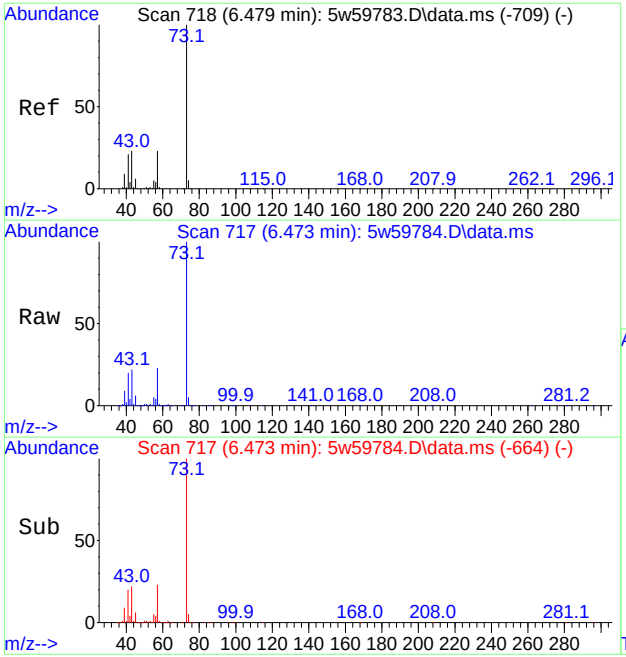


#35
TERTIARY BUTYL ALCOHOL
Concen: 16.33 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 1868378

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.7	0.0	44.1

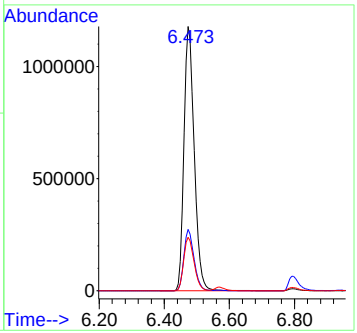


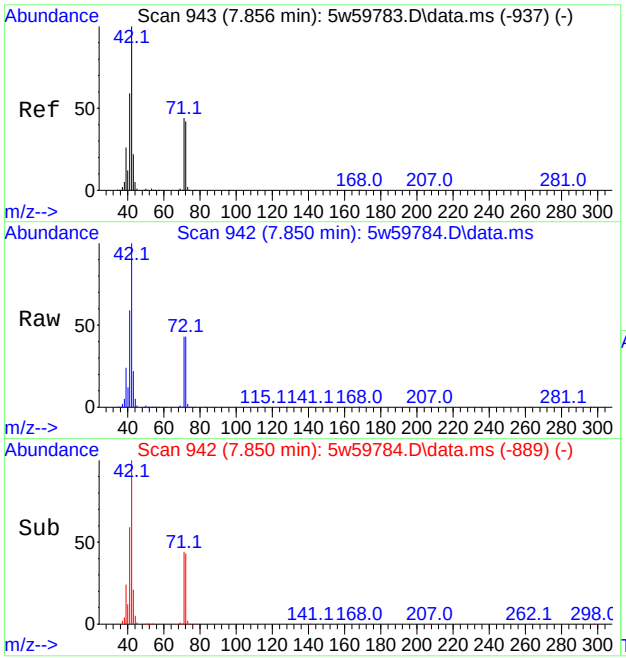


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.14 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 73 Resp: 2584253

Ion	Ratio	Lower	Upper
73	100		
57	22.8	0.0	53.1
41	20.4	0.0	50.6

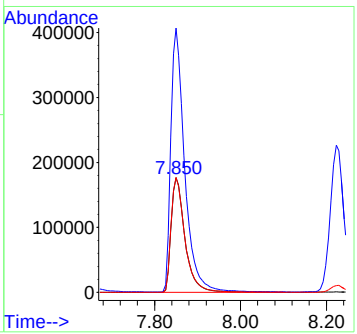


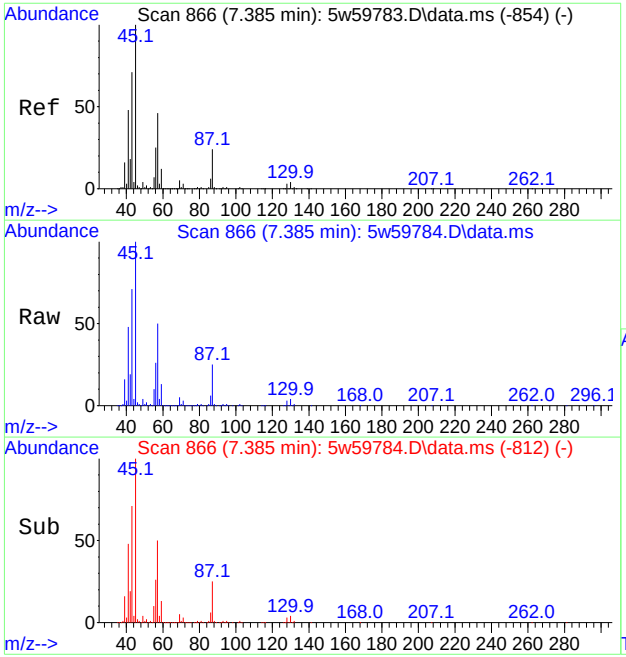


#37
TETRAHYDROFURAN
Concen: 22.19 PPBV
RT: 7.850 min Scan# 942
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 399188

Ion	Ratio	Lower	Upper
72	100		
42	228.7	202.4	262.4
71	100.4	71.1	131.1

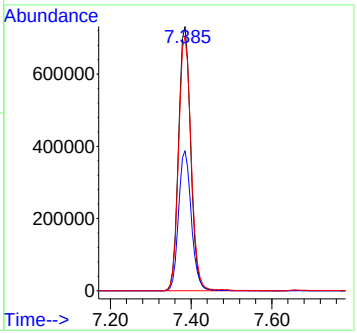


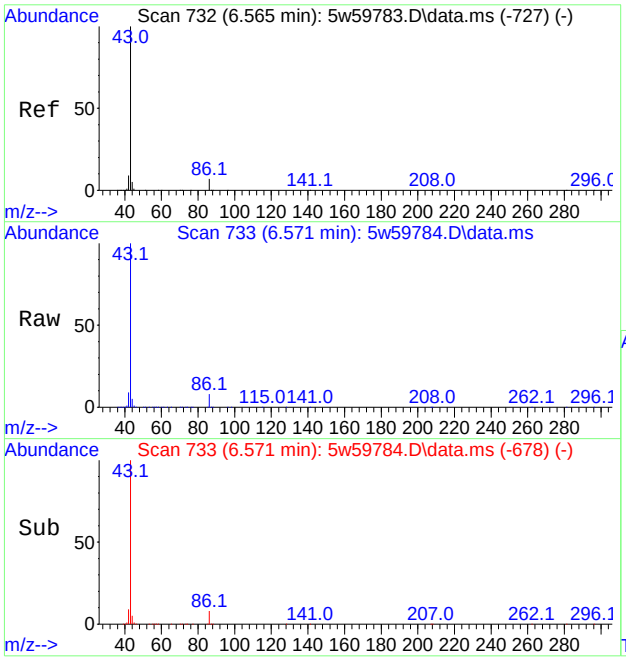


#38
HEXANE
Concen: 20.27 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1526495

Ion	Ratio	Lower	Upper
57	100		
56	55.6	25.9	85.9
41	99.2	74.7	134.7

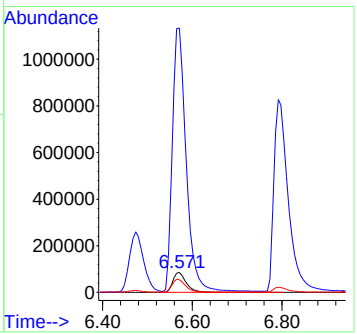


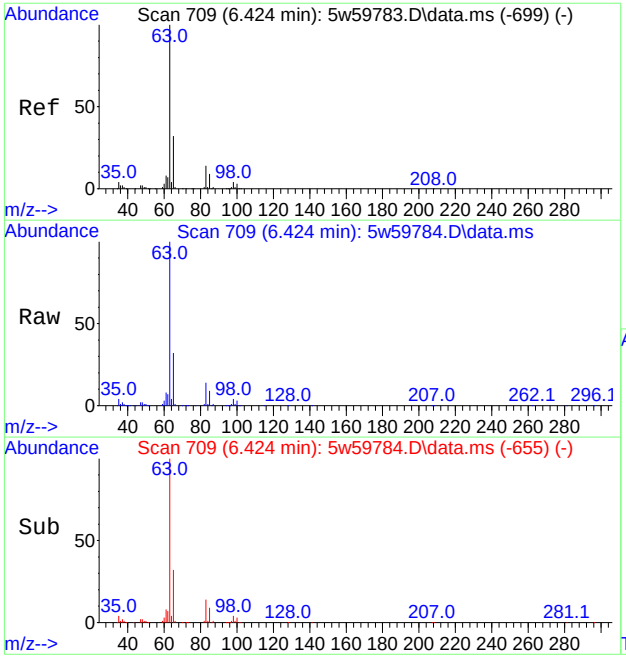


#39
VINYL ACETATE
Concen: 19.94 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 86 Resp: 179566

Ion	Ratio	Lower	Upper
86	100		
43	1346.7	1379.7	1439.7#
44	64.7	36.9	96.9

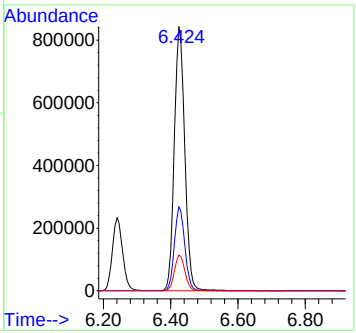


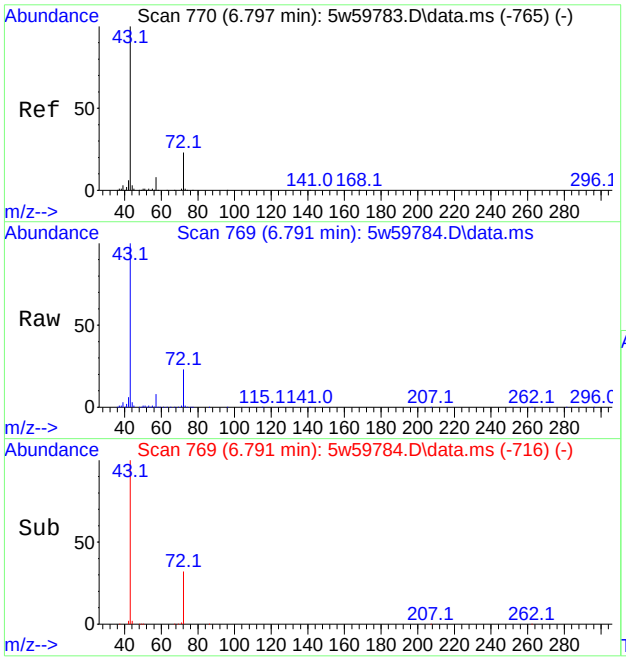


#40
1,1-DICHLOROETHANE
Concen: 18.32 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1823762

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.7	61.7
83	13.6	0.0	43.5

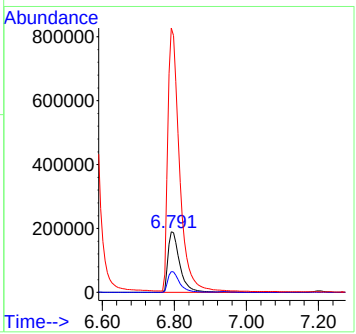


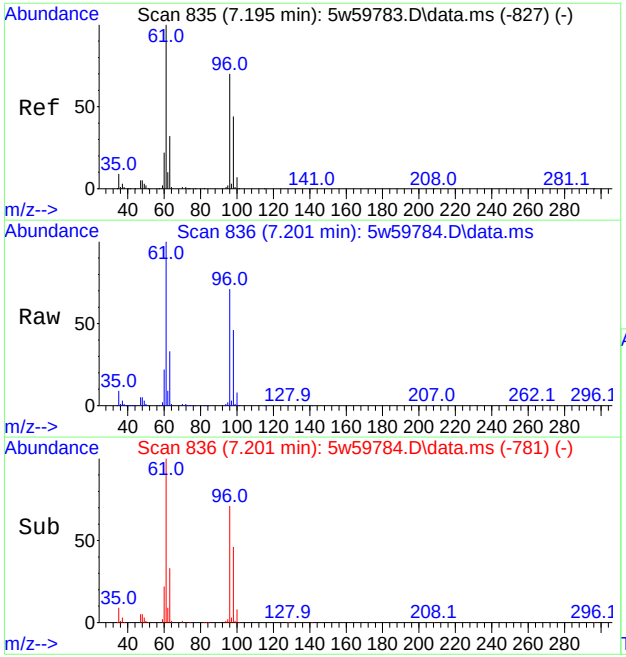


#41
METHYL ETHYL KETONE
Concen: 22.94 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 430294

Ion	Ratio	Lower	Upper
72	100		
57	34.5	4.8	64.8
43	437.4	415.9	475.9

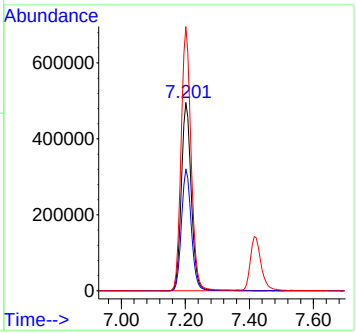


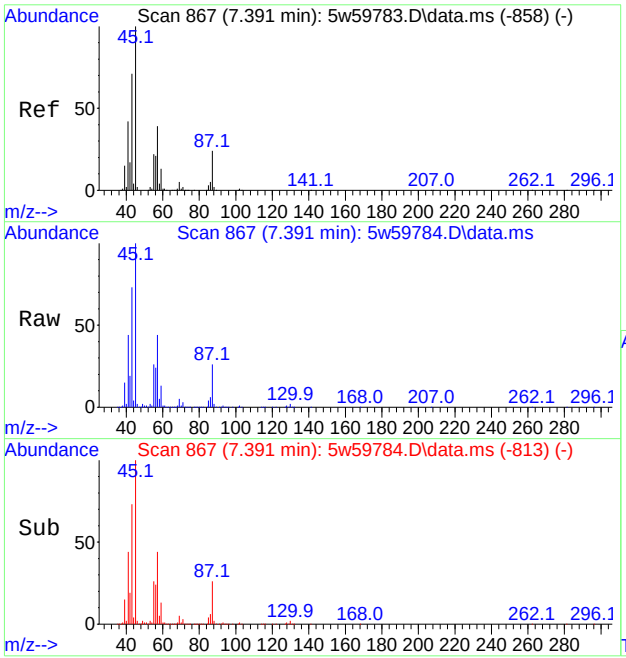


#42
cis-1,2-DICHLOROETHYLENE
Concen: 19.00 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 1068157

Ion	Ratio	Lower	Upper
96	100		
98	64.3	34.0	94.0
61	140.2	111.5	171.5

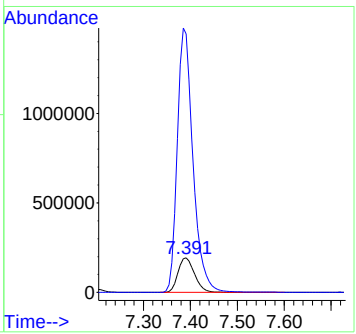


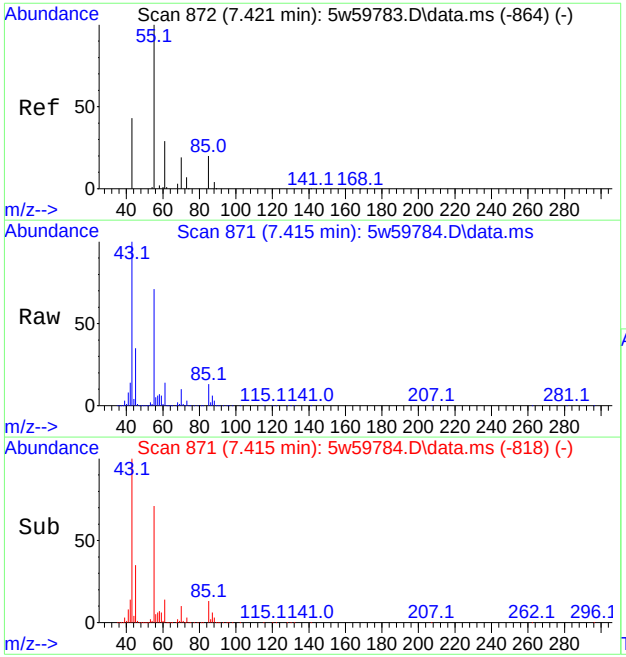


#43
DIISOPROPYL ETHER
Concen: 23.11 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 472029

Ion	Ratio	Lower	Upper
59	100		
45	729.2	720.9	780.9

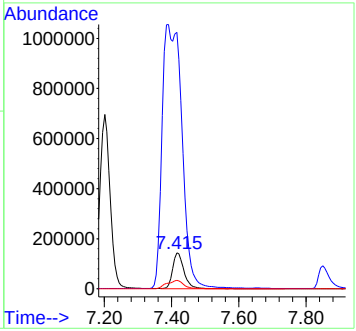


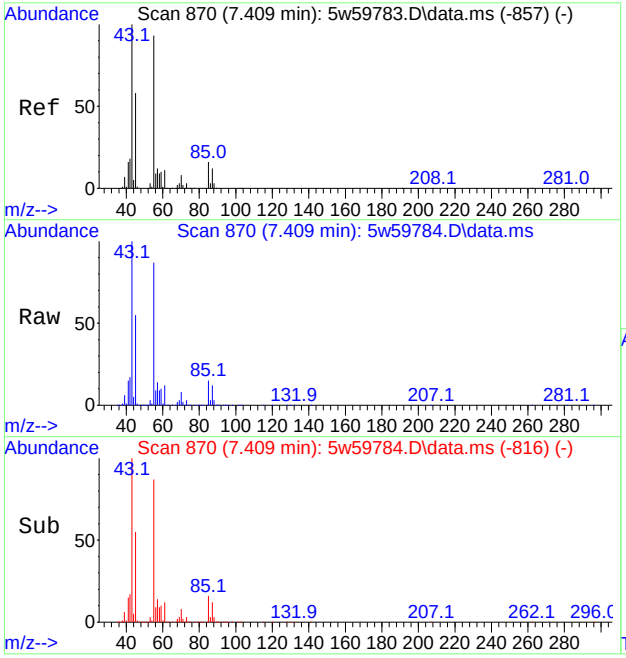


#44
ETHYL ACETATE
Concen: 22.04 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 61 Resp: 340212

Ion	Ratio	Lower	Upper
61	100		
43	580.2	560.5	620.5
88	35.0	4.5	64.5

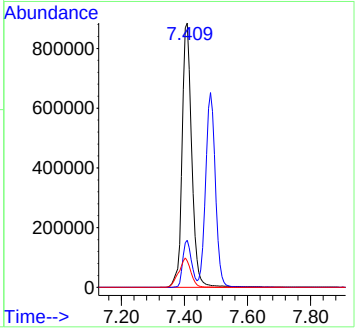


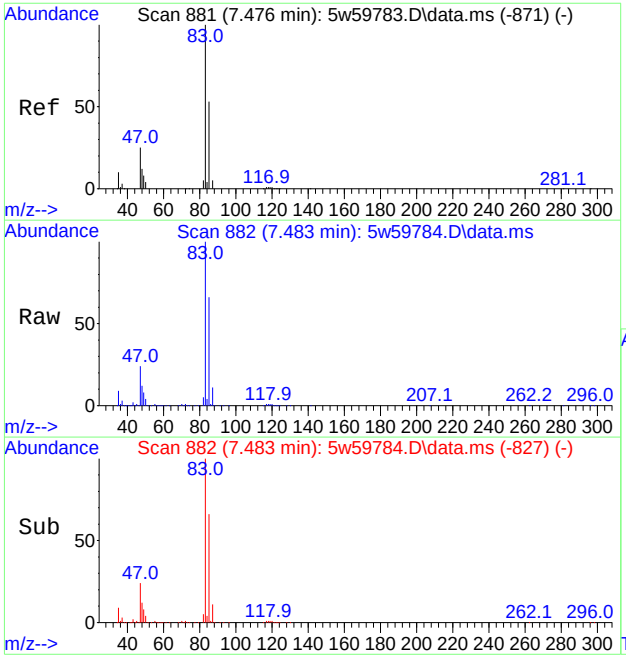


#45
METHYL ACRYLATE
Concen: 21.07 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 1885856

Ion	Ratio	Lower	Upper
55	100		
85	16.1	10.9	20.3
58	13.9	9.4	17.6

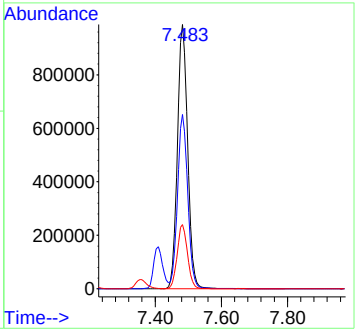


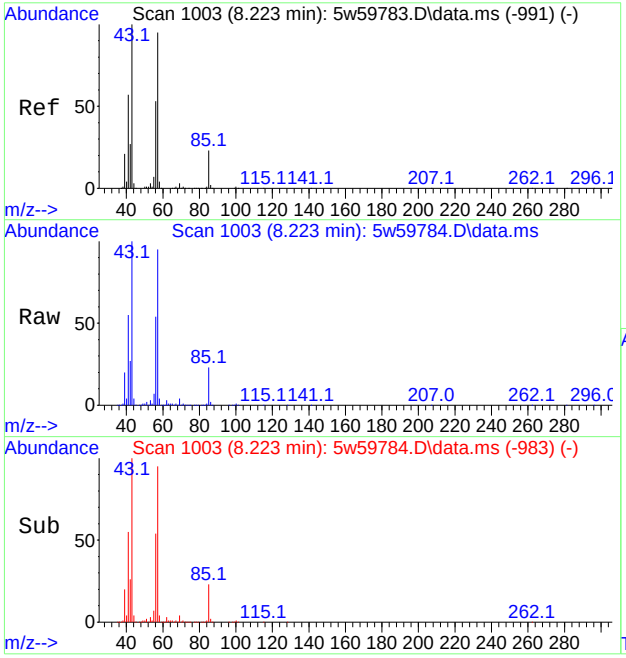


#46
CHLOROFORM
Concen: 18.57 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2134176

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	24.5	0.0	55.2

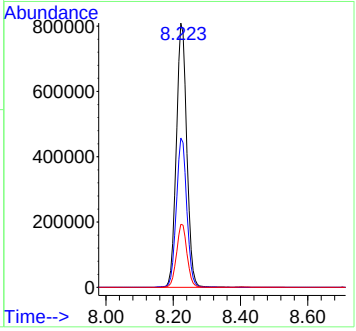


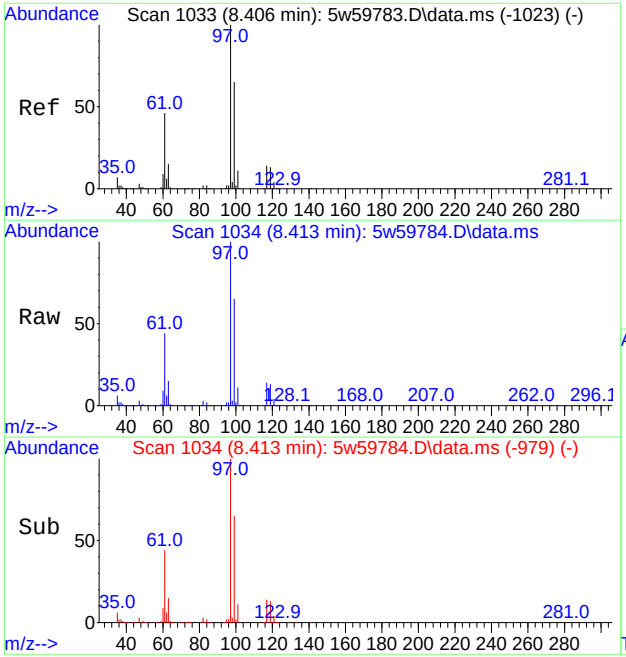


#47
2,4-DIMETHYLPENTANE
Concen: 19.75 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1747860

Ion	Ratio	Lower	Upper
57	100		
56	56.8	26.5	86.5
85	24.0	0.0	53.8

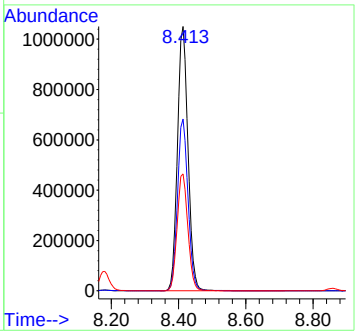


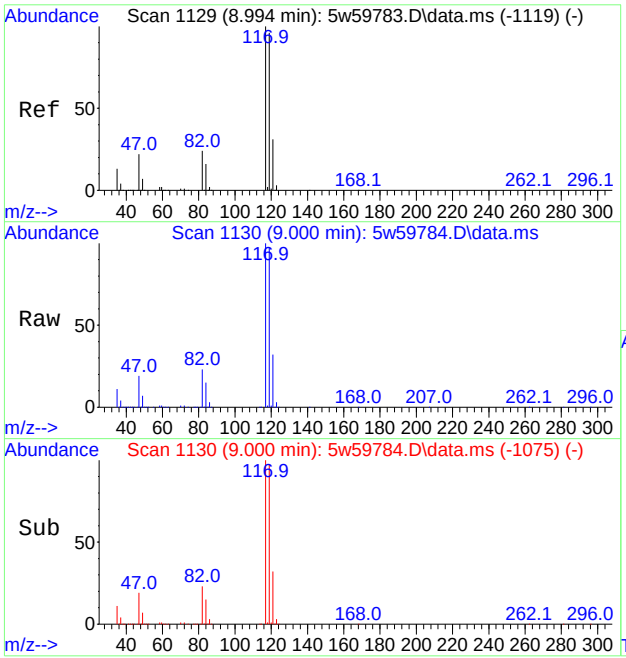


#48
1,1,1-TRICHLOROETHANE
Concen: 18.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 97 Resp: 2289683

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.8	94.8
61	45.3	15.8	75.8

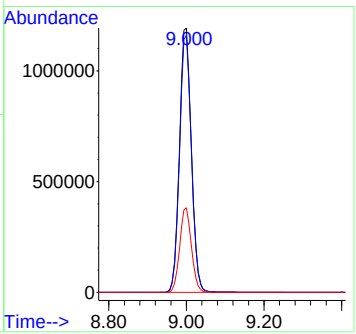


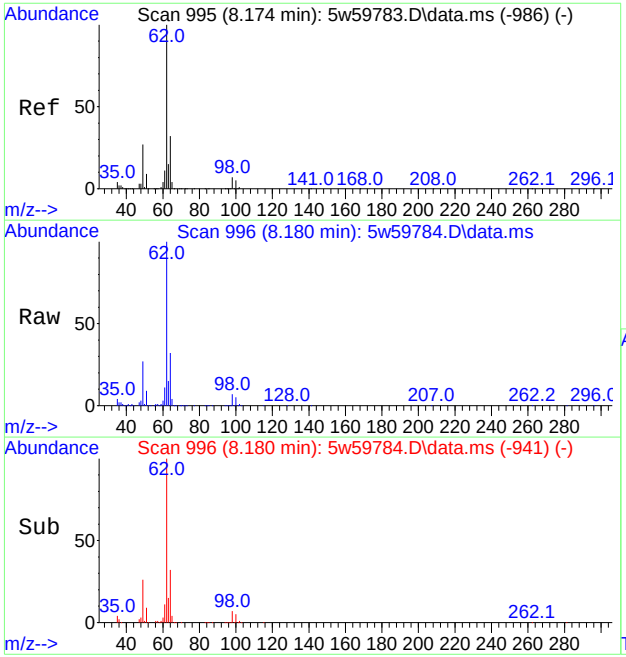


#49
CARBON TETRACHLORIDE
Concen: 18.43 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2555242

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.5	1.3	61.3

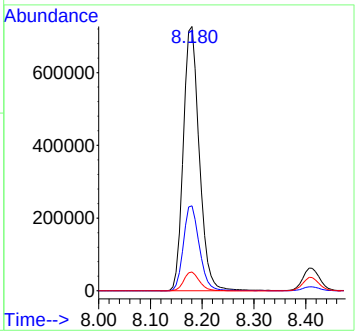


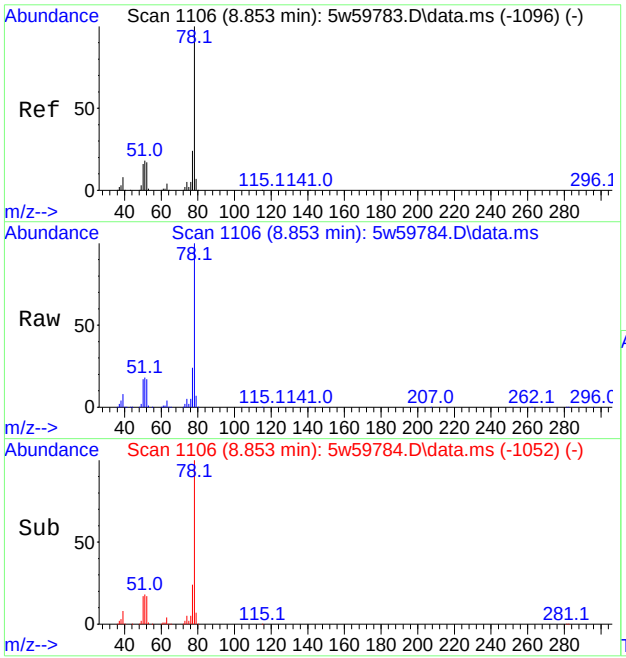


#50
1,2-DICHLOROETHANE
Concen: 19.15 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 1561332

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	7.0	0.0	36.9

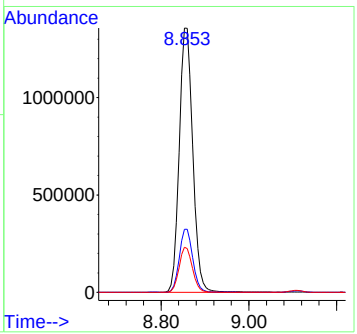


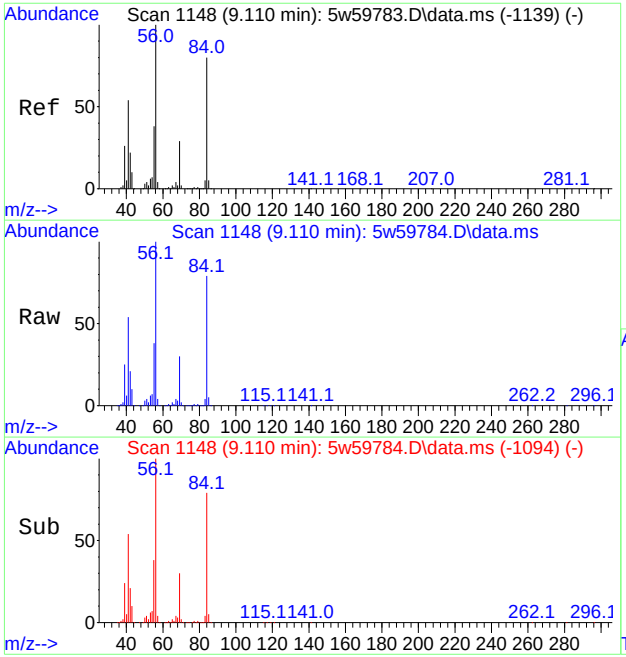


#52
BENZENE
Concen: 22.68 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 78 Resp: 2903342

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

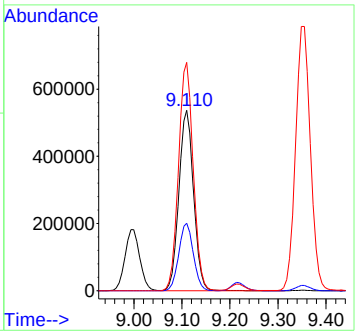


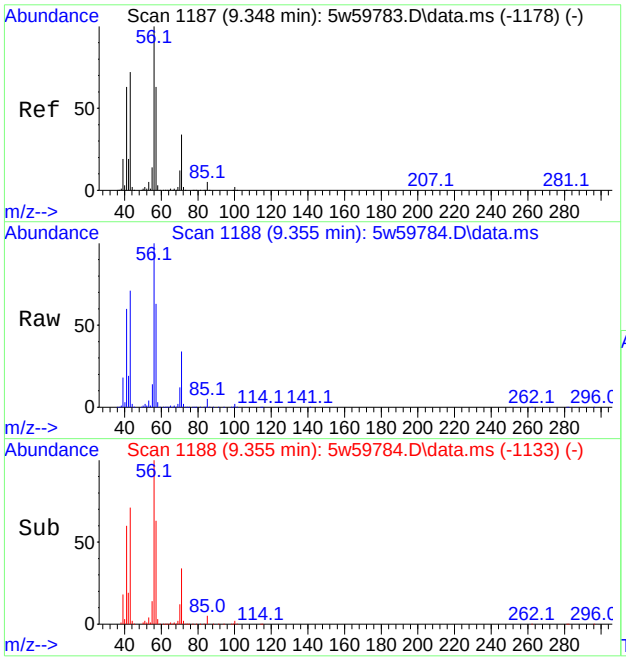


#53
CYCLOHEXANE
Concen: 22.41 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 1139585

Ion	Ratio	Lower	Upper
84	100		
69	37.2	6.9	66.9
56	126.2	98.2	158.2

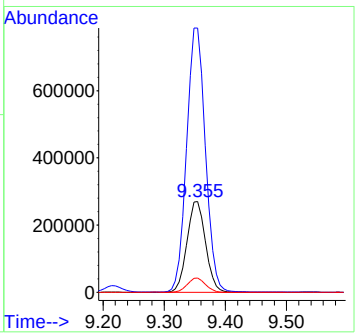


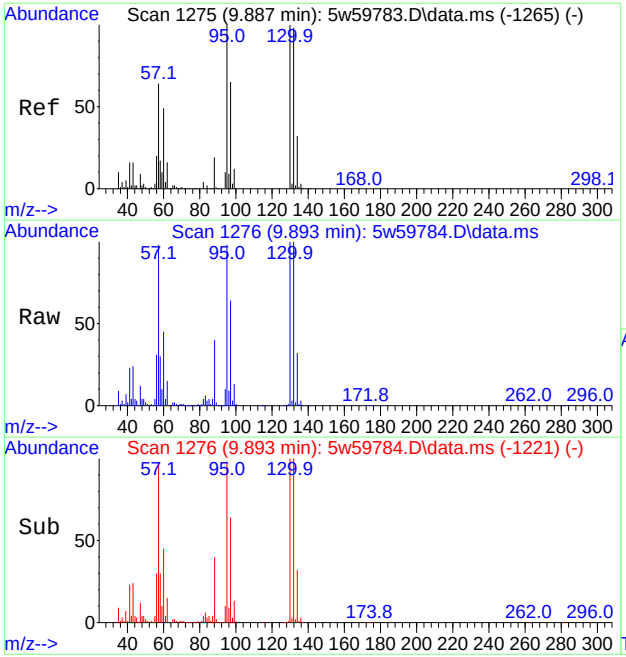


#54
2,3-DIMETHYLPENTANE
Concen: 22.39 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 71 Resp: 573637

Ion	Ratio	Lower	Upper
71	100		
56	294.3	264.6	324.6
85	15.5	0.0	45.3

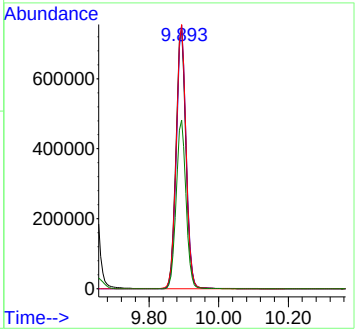


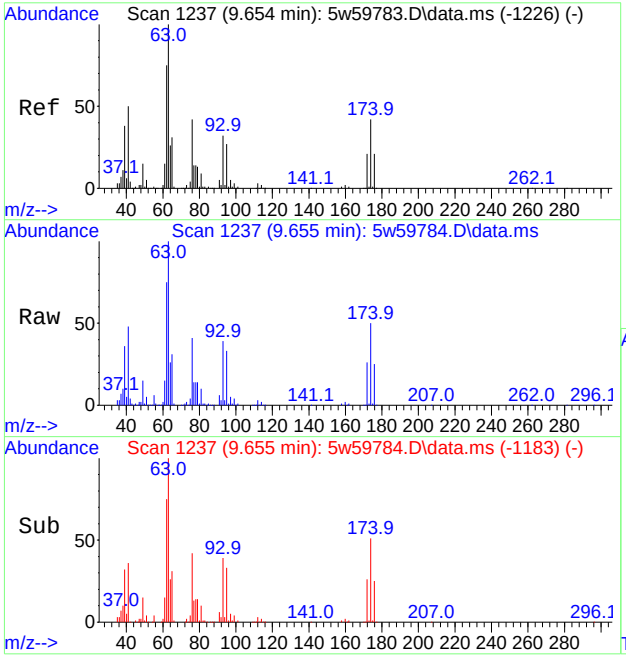


#55
TRICHLOROETHYLENE
Concen: 21.65 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 95 Resp: 1474907

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.3	70.6	130.6
97	64.8	34.6	94.6

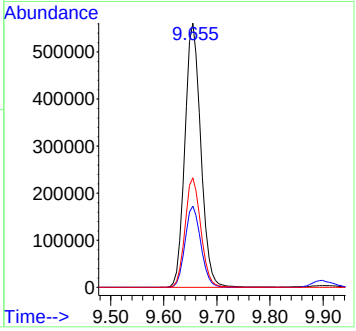


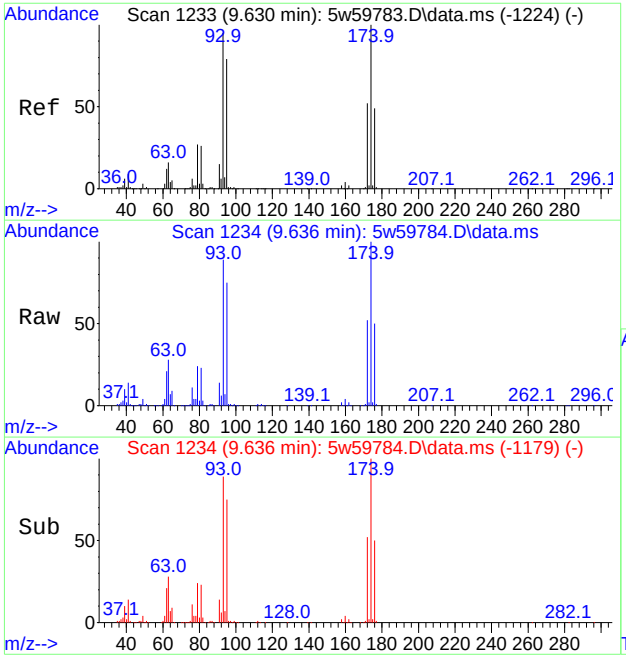


#56
1,2-DICHLOROPROPANE
Concen: 21.61 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1173566

Ion	Ratio	Lower	Upper
63	100		
65	30.7	0.5	60.5
76	41.3	11.5	71.5

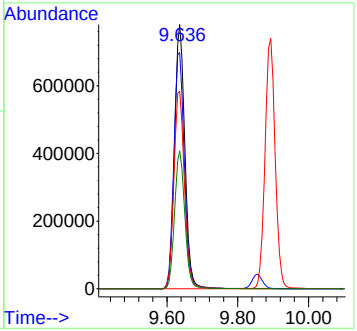


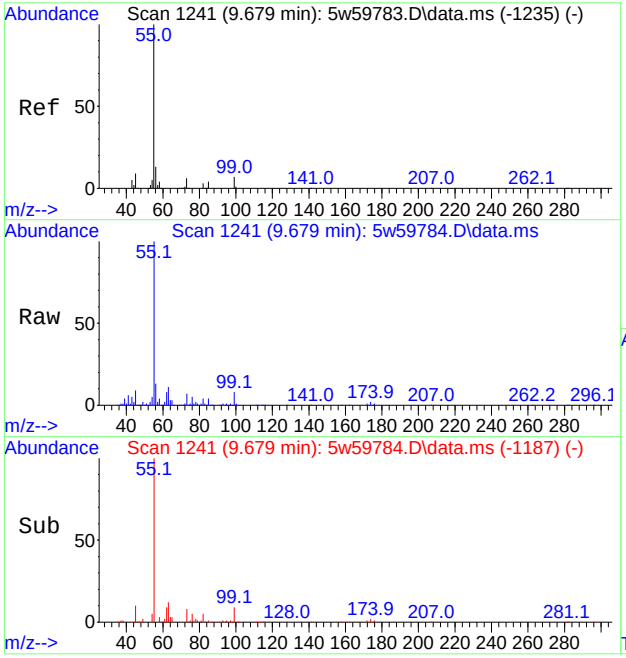


#57
DIBROMOMETHANE
Concen: 21.13 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:174 Resp: 1578012

Ion	Ratio	Lower	Upper
174	100		
93	91.6	65.0	120.6
95	76.8	54.5	101.1
172	52.1	36.3	67.5

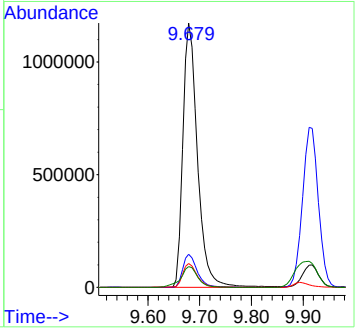


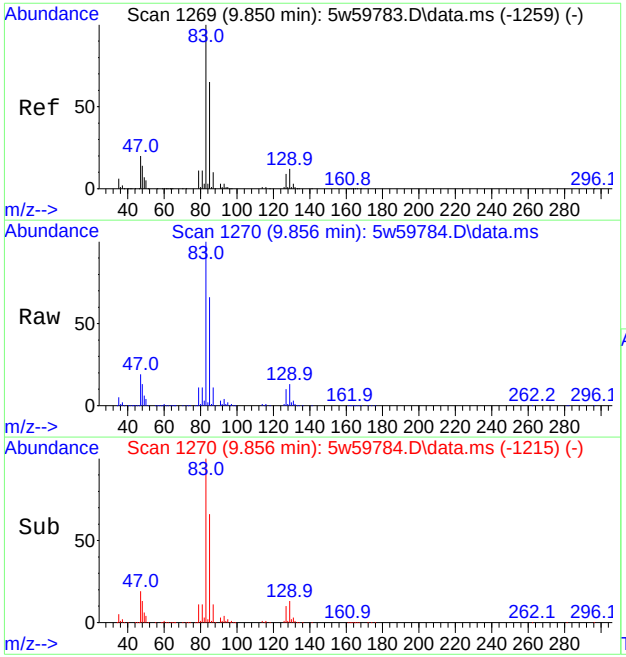


#58
ETHYL ACRYLATE
Concen: 23.37 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 2306359

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.0	6.6	12.2
99	9.3	6.4	12.0

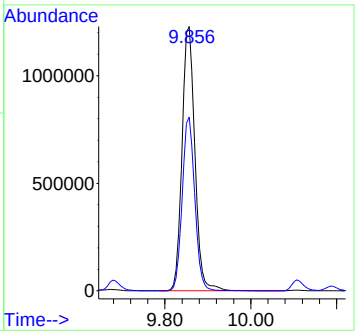


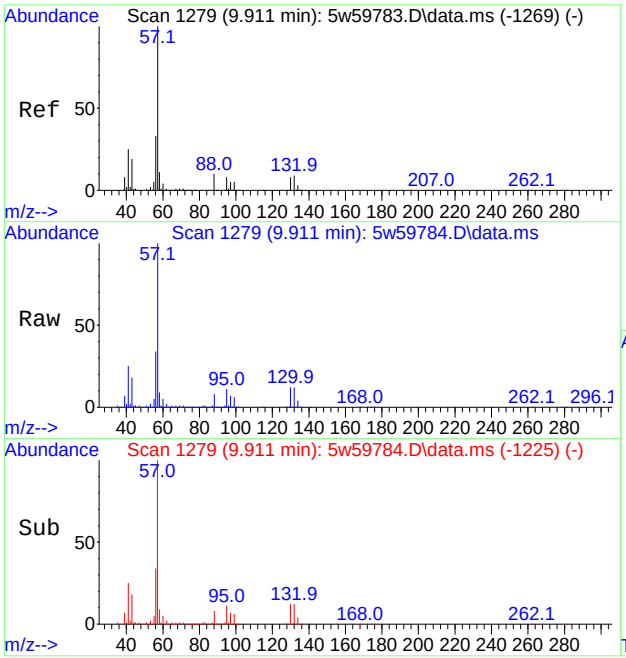


#59
BROMODICHLOROMETHANE
Concen: 21.01 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2548286

Ion	Ratio	Lower	Upper
83	100		
85	64.1	33.4	93.4

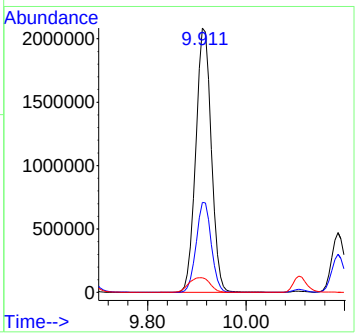


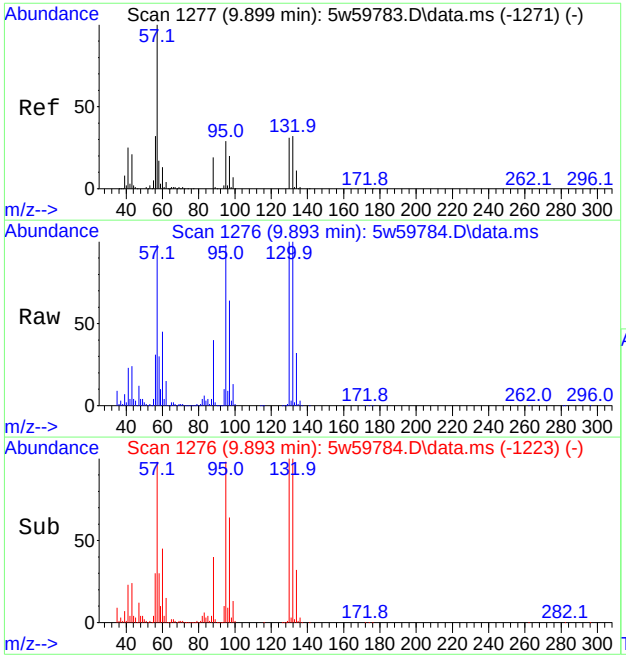


#60
2,2,4-TRIMETHYLPENTANE
Concen: 20.94 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 4564310

Ion	Ratio	Lower	Upper
57	100		
56	33.1	2.5	62.5
99	7.7	0.0	37.3

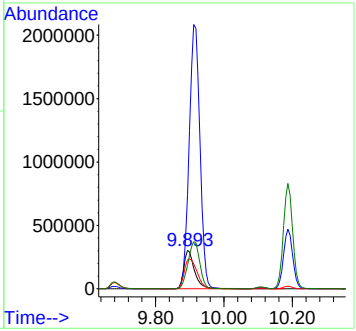


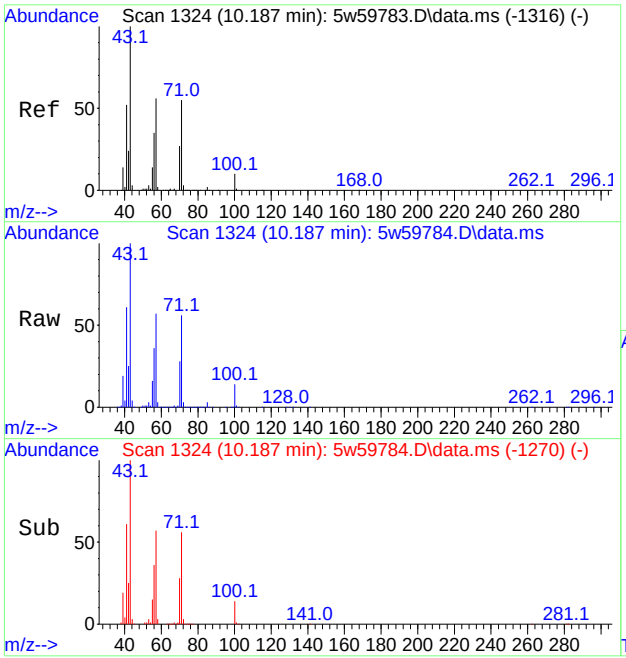


#61
1,4-DIOXANE
Concen: 24.77 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 88 Resp: 653321

Ion	Ratio	Lower	Upper
88	100		
57	243.5	494.2	554.2#
58	75.6	58.9	118.9
43	60.5	78.3	138.3#

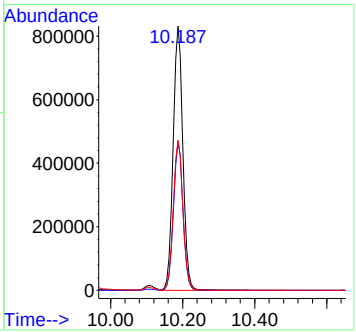


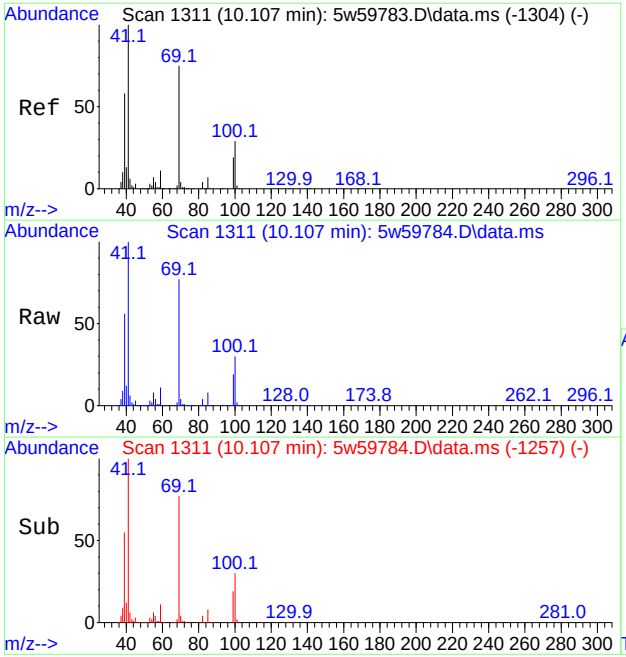


#62
HEPTANE
Concen: 19.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 1555190

Ion	Ratio	Lower	Upper
43	100		
71	55.3	24.5	84.5
57	56.8	26.2	86.2

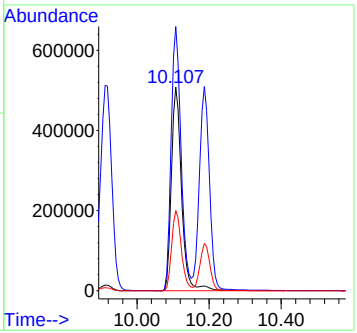


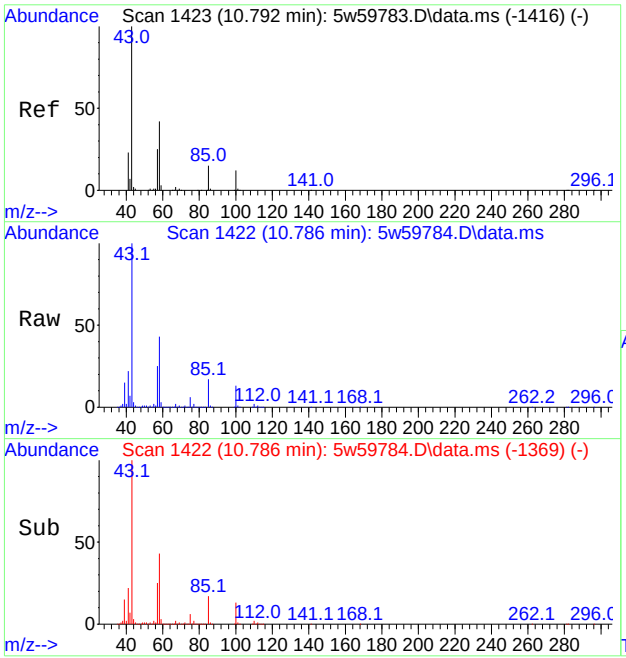


#63
METHYL METHACRYLATE
Concen: 25.22 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1000168

Ion	Ratio	Lower	Upper
69	100		
41	124.8	95.3	155.3
100	37.7	6.3	66.3

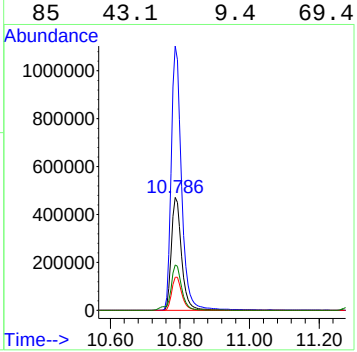


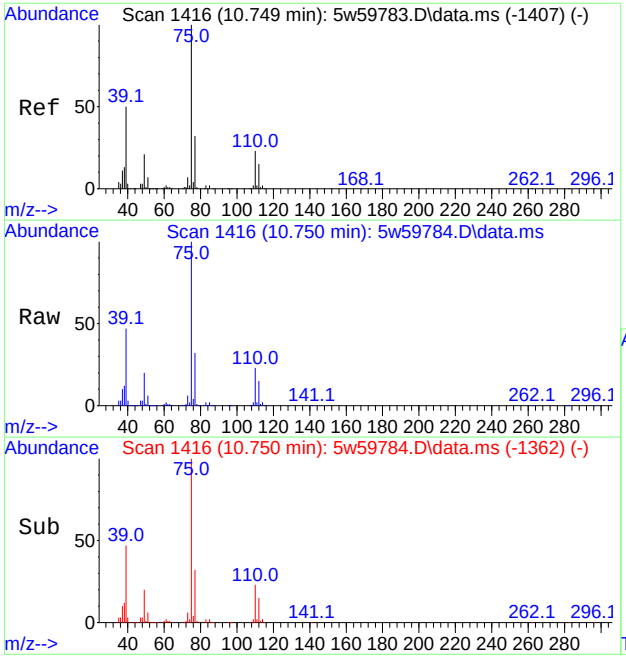


#64
METHYL ISOBUTYL KETONE
Concen: 23.79 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 969468

Ion	Ratio	Lower	Upper
58	100		
43	234.9	209.2	269.2
100	29.7	0.0	58.8
85	43.1	9.4	69.4

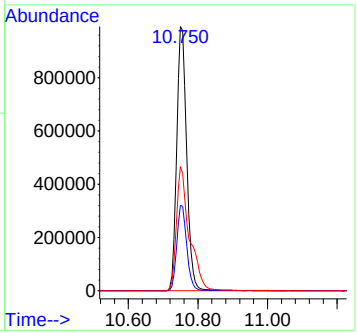


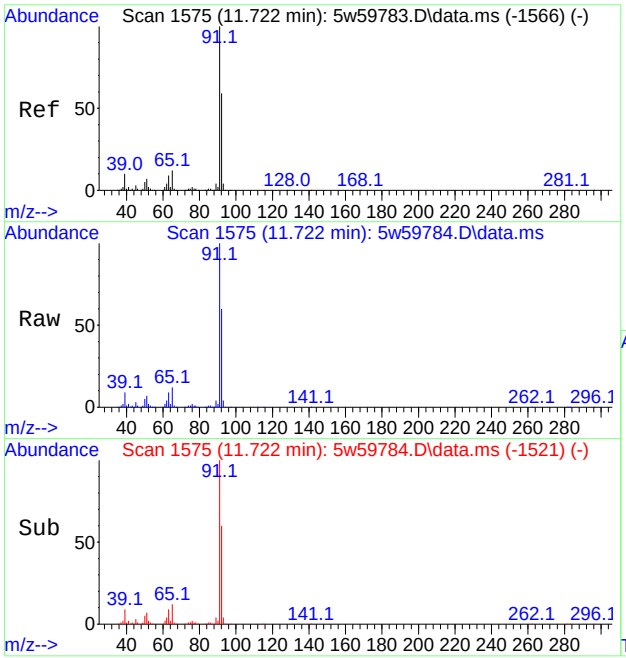


#65
cis-1,3-DICHLOROPROPENE
Concen: 23.56 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1985103

Ion	Ratio	Lower	Upper
75	100		
77	32.3	2.2	62.2
39	61.2	34.3	94.3

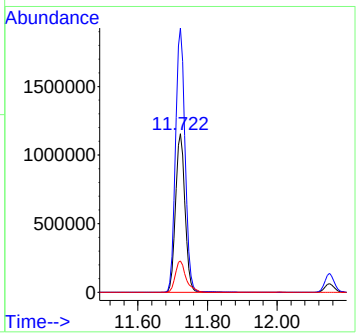


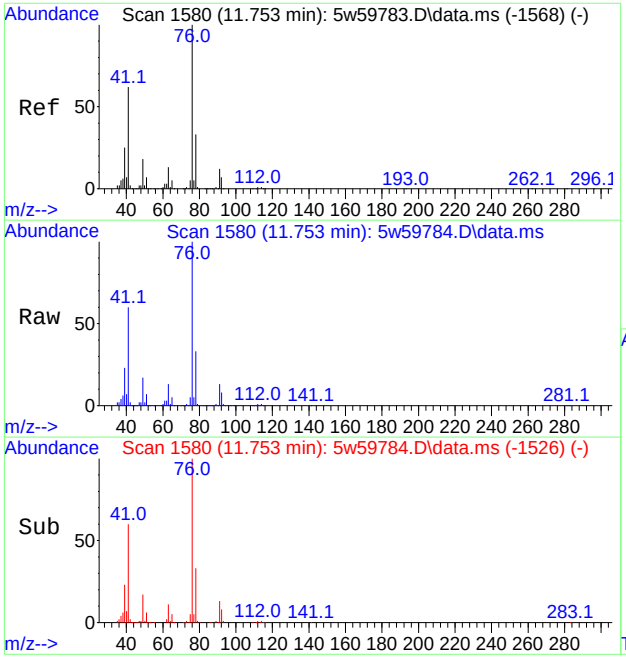


#66
TOLUENE
Concen: 23.93 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 92 Resp: 2187710

Ion	Ratio	Lower	Upper
92	100		
91	168.7	140.1	200.1
65	22.8	0.0	53.1

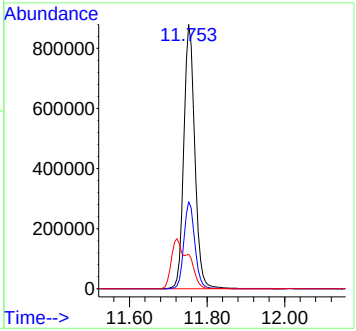


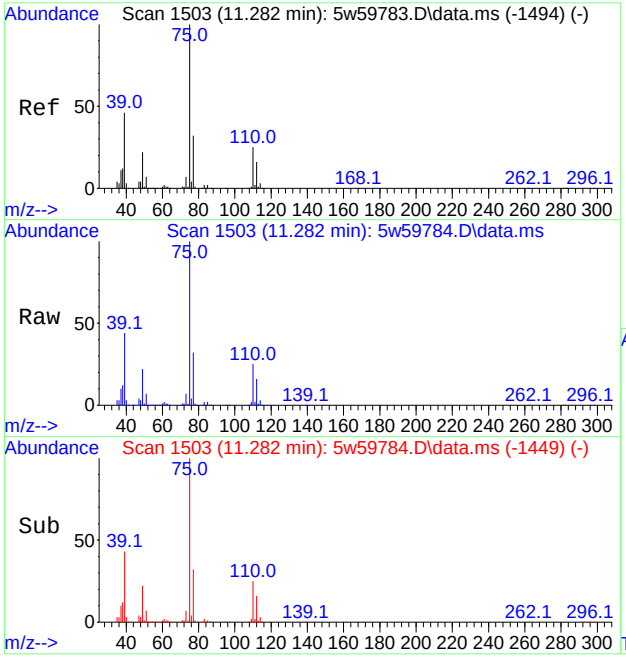


#67
1,3-DICHLOROPROPANE
Concen: 22.65 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 1738240

Ion	Ratio	Lower	Upper
76	100		
78	33.0	23.2	43.0
63	10.3	7.1	13.1

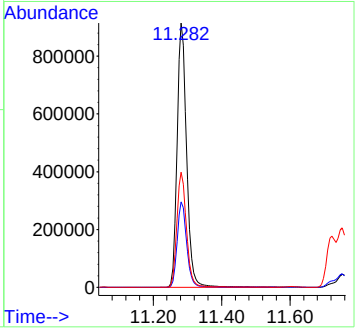


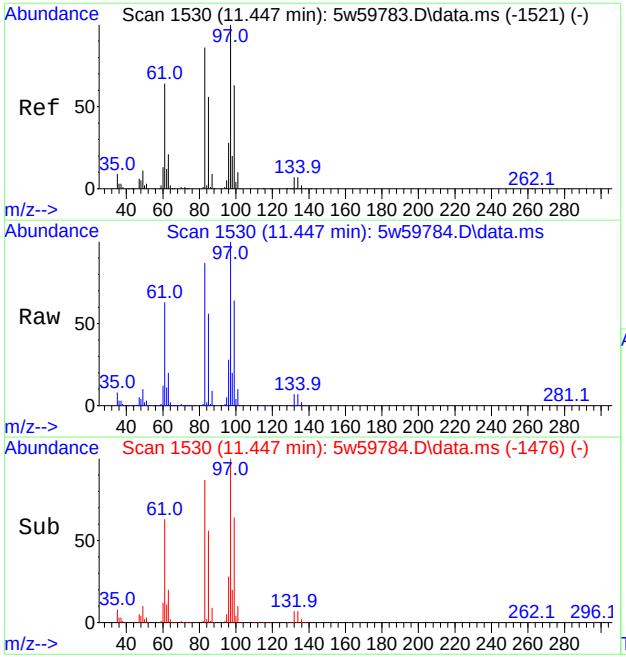


#68
trans-1,3-DICHLOROPROPENE
Concen: 22.91 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1772531

Ion	Ratio	Lower	Upper
75	100		
77	32.4	1.6	61.6
39	44.2	16.1	76.1

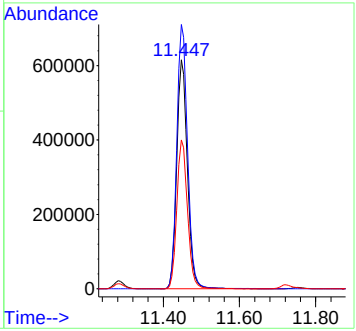


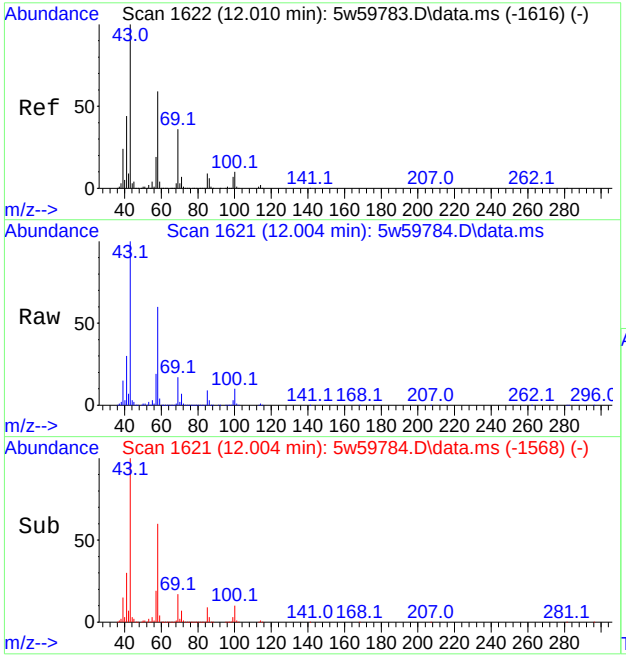


#69
1,1,2-TRICHLOROETHANE
Concen: 23.91 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 1196566

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.2	35.3	95.3

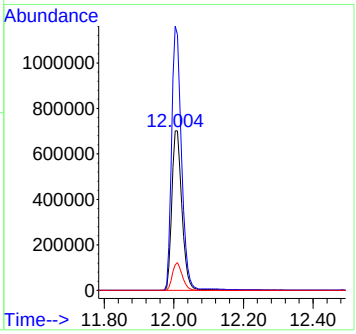


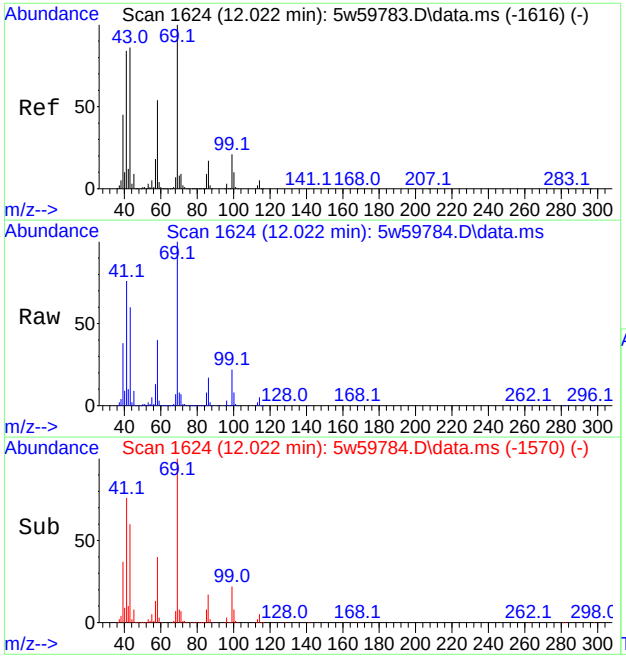


#71
2-HEXANONE
Concen: 25.09 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 1425280

Ion	Ratio	Lower	Upper
58	100		
43	161.8	137.2	197.2
100	17.1	0.0	46.9

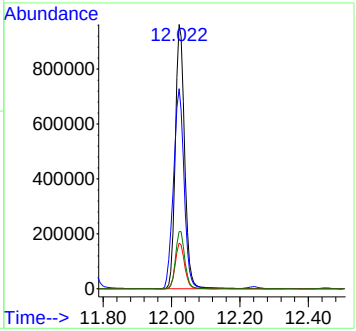


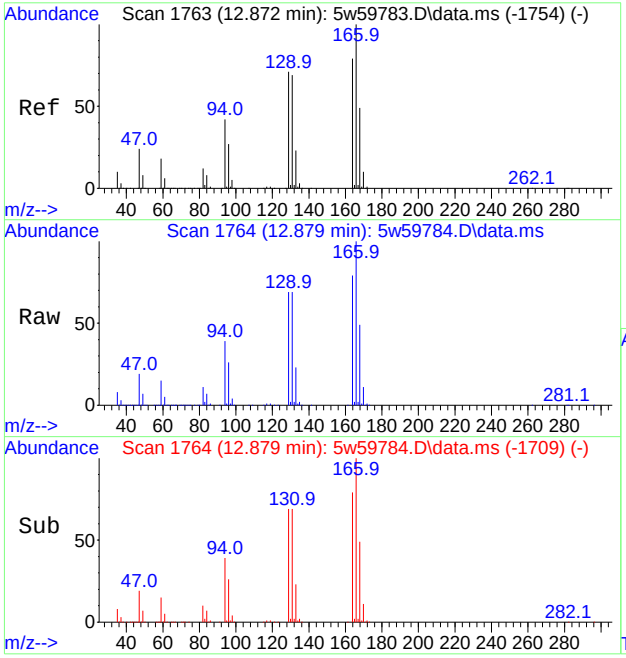


#72
ETHYL METHACRYLATE
Concen: 25.28 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1817206

Ion	Ratio	Lower	Upper
69	100		
41	87.2	64.0	119.0
86	17.4	12.0	22.4
99	21.8	15.0	27.8

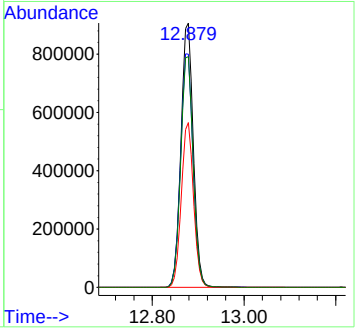


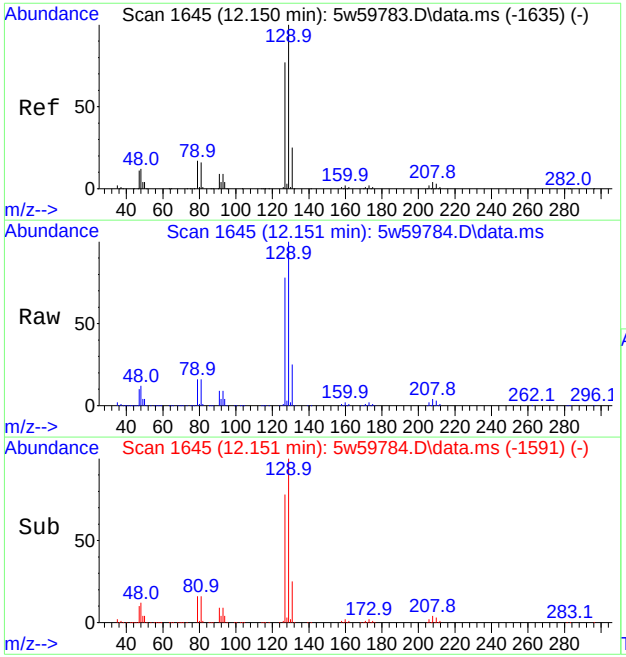


#73
TETRACHLOROETHYLENE
Concen: 20.29 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:164 Resp: 1702539

Ion	Ratio	Lower	Upper
164	100		
129	89.5	59.7	119.7
168	62.0	32.2	92.2
131	88.0	57.8	117.8

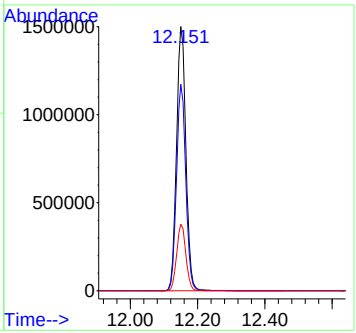


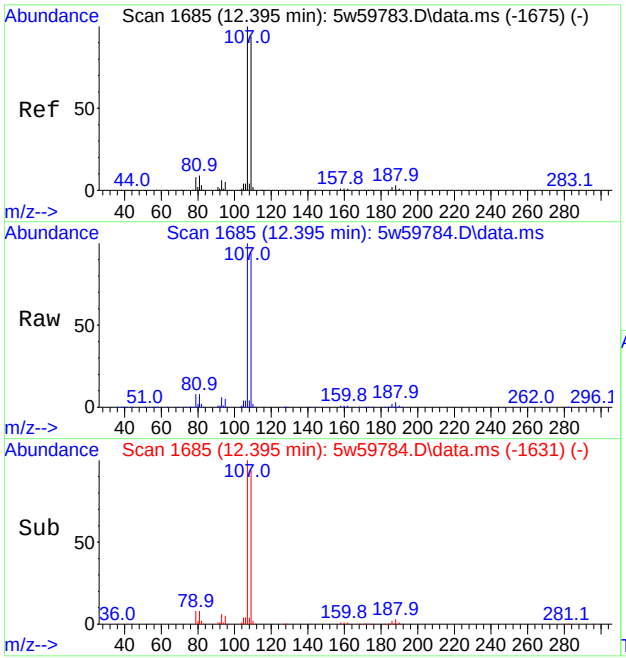


#74
DIBROMOCHLOROMETHANE
Concen: 20.55 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:129 Resp: 2900352

Ion	Ratio	Lower	Upper
129	100		
127	77.8	47.1	107.1
131	25.0	0.0	54.5

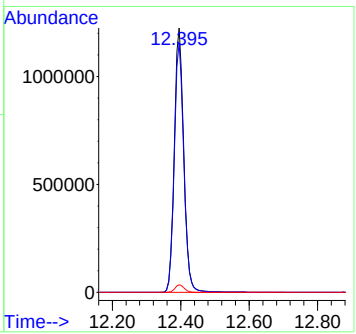


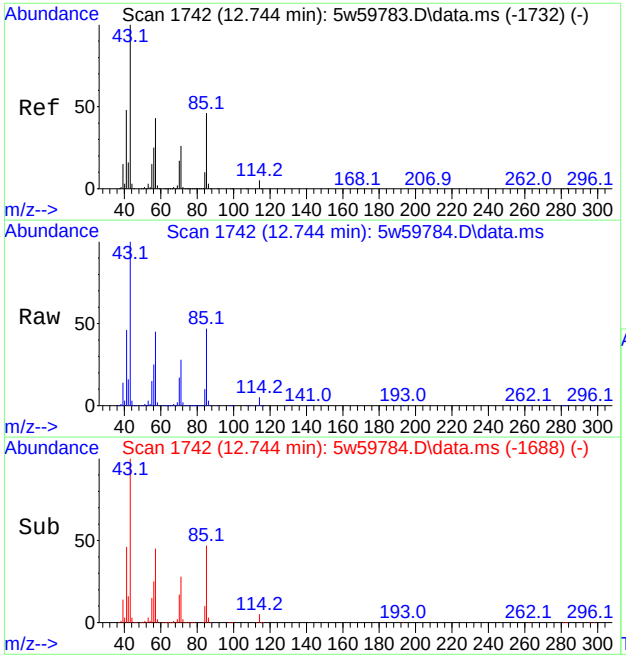


#75
1,2-DIBROMOETHANE
Concen: 22.95 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:107 Resp: 2366337

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

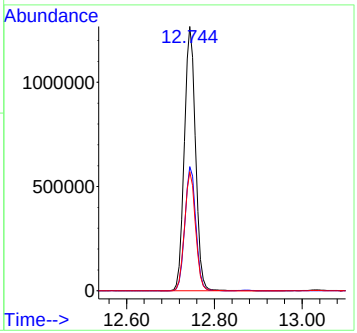


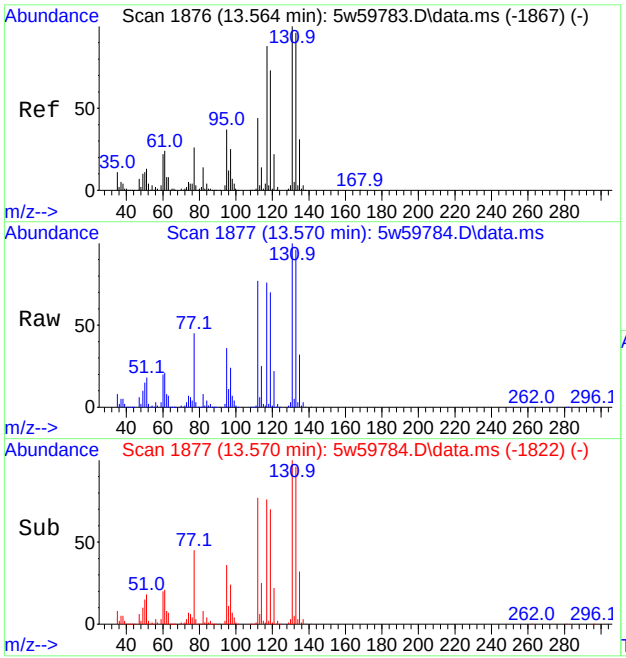


#76
OCTANE
Concen: 18.84 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2238080

Ion	Ratio	Lower	Upper
43	100		
85	46.2	14.6	74.6
57	44.3	13.7	73.7

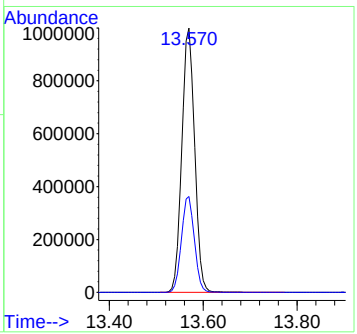


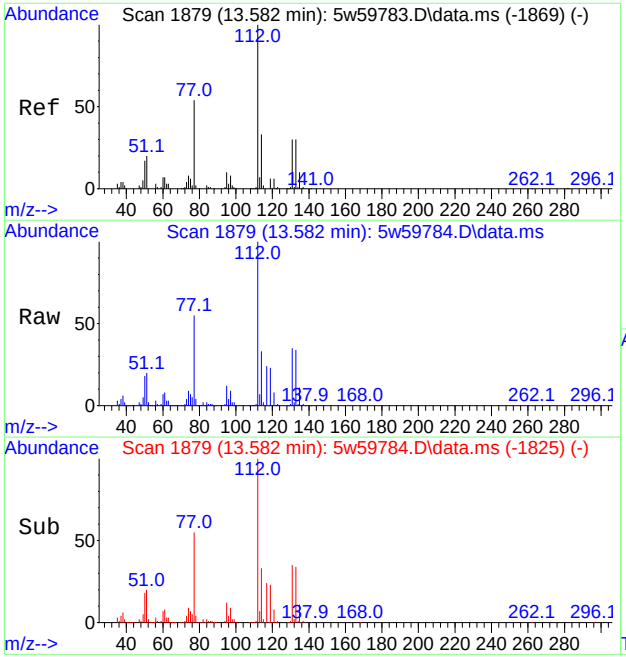


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.52 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:131 Resp: 1899714

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

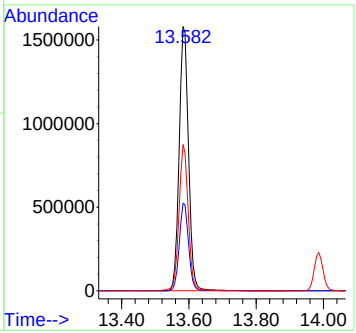


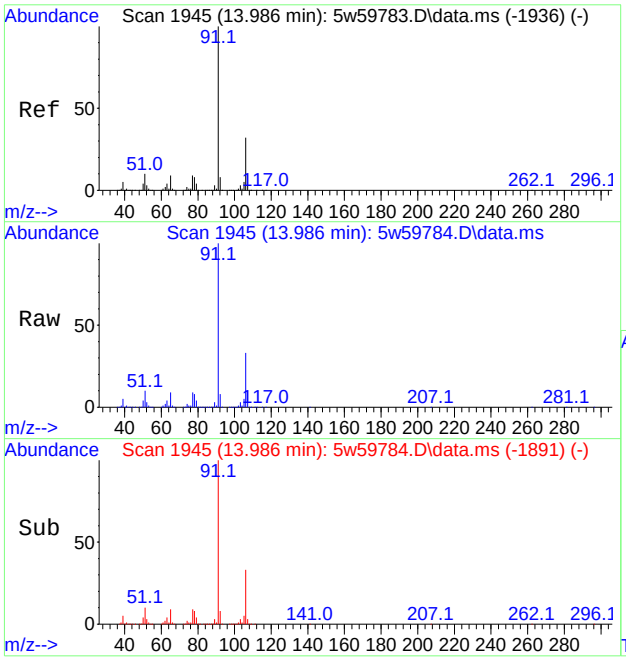


#78
CHLOROBENZENE
Concen: 20.02 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:112 Resp: 3046547

Ion	Ratio	Lower	Upper
112	100		
114	33.0	2.6	62.6
77	55.1	25.4	85.4

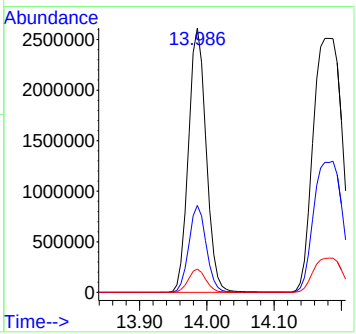


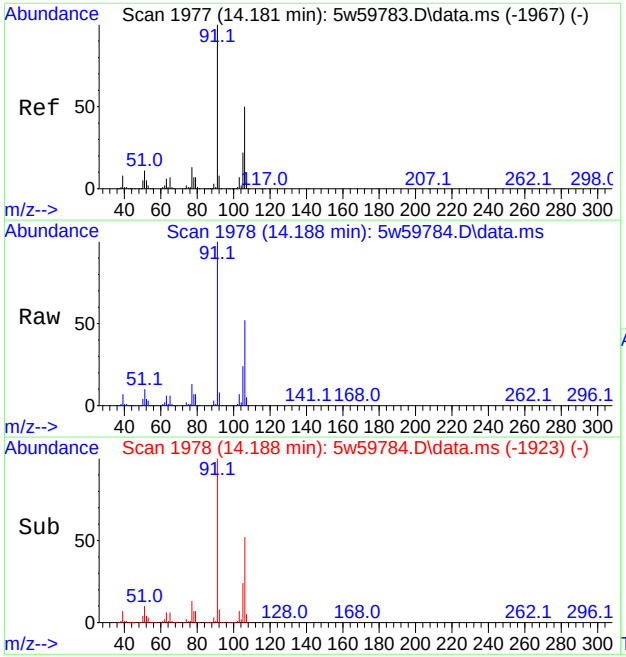


#79
ETHYLBENZENE
Concen: 22.00 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4800136

Ion	Ratio	Lower	Upper
91	100		
106	32.3	1.3	61.3
77	8.7	0.0	38.6

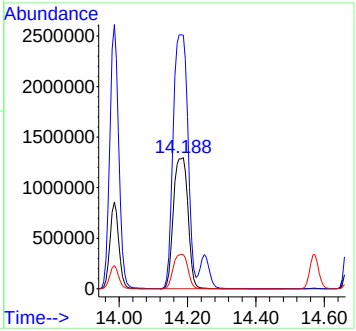


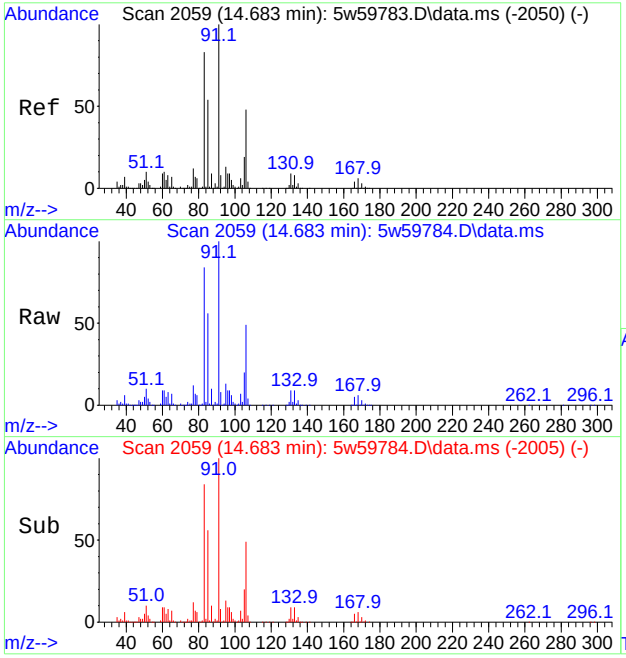


#80
m,p-XYLENE
Concen: 46.33 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 3838940

Ion	Ratio	Lower	Upper
106	100		
91	193.3	171.0	231.0
77	26.1	0.0	56.7

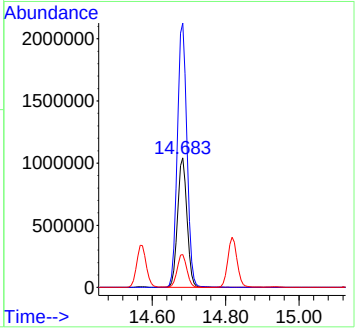


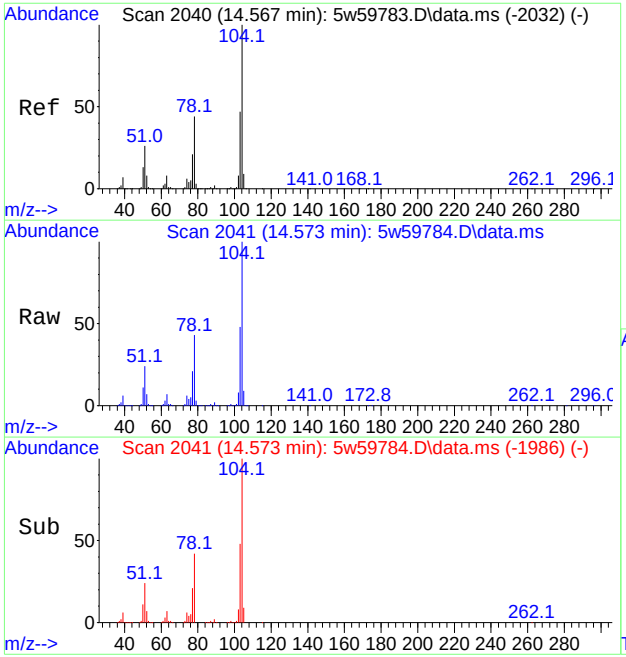


#81
o-XYLENE
Concen: 24.57 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 1866956

Ion	Ratio	Lower	Upper
106	100		
91	207.5	181.6	241.6
77	26.0	0.0	56.6

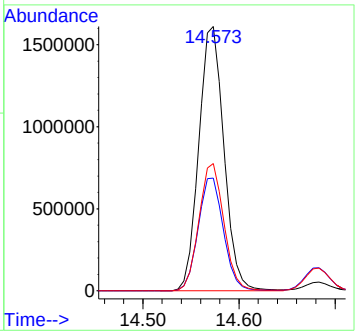


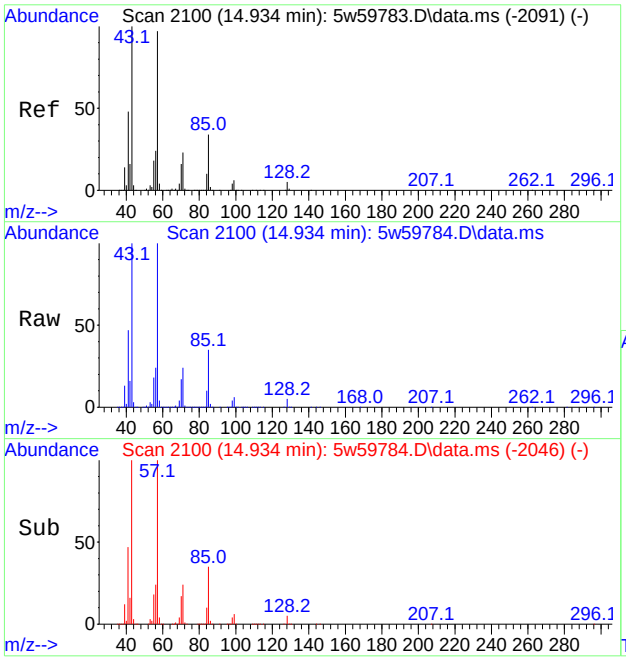


#82
STYRENE
Concen: 25.25 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:104 Resp: 2939414

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.7	17.2	77.2

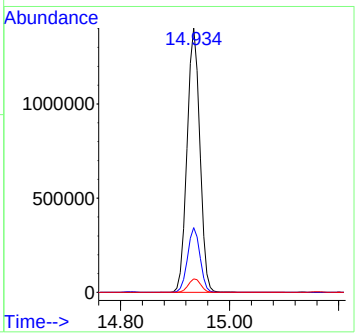


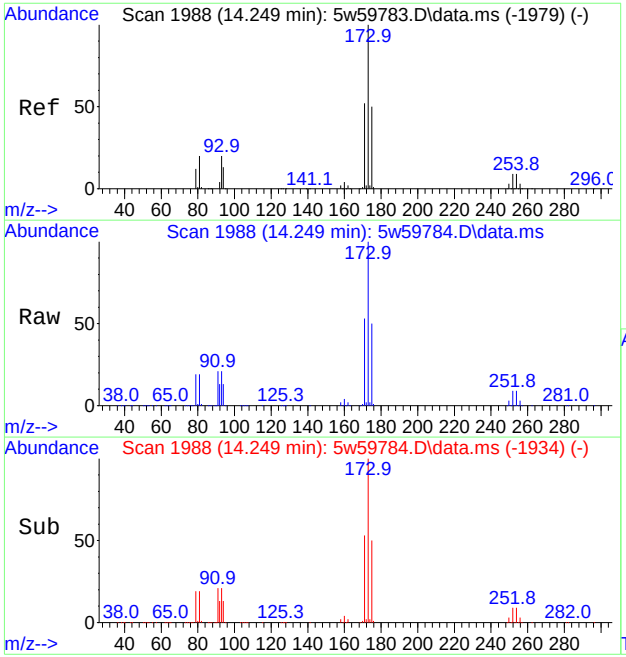


#83
NONANE
Concen: 19.27 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2271246

Ion	Ratio	Lower	Upper
43	100		
71	23.9	0.0	52.7
128	5.0	0.0	34.7

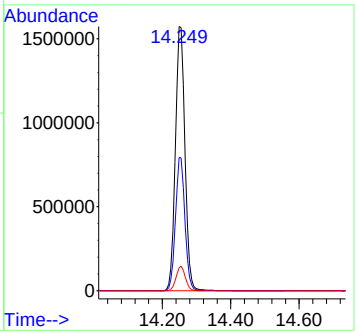


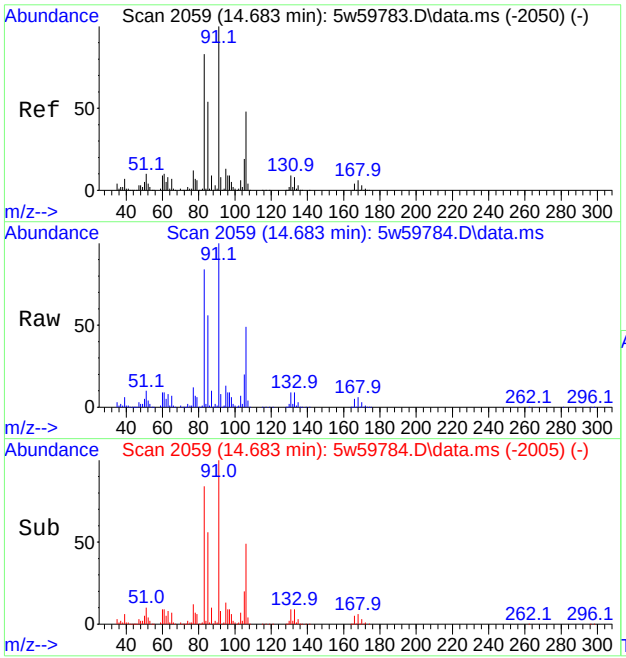


#84
BROMOFORM
Concen: 21.19 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:173 Resp: 3083788

Ion	Ratio	Lower	Upper
173	100		
175	49.9	19.6	79.6
254	9.1	0.0	39.0

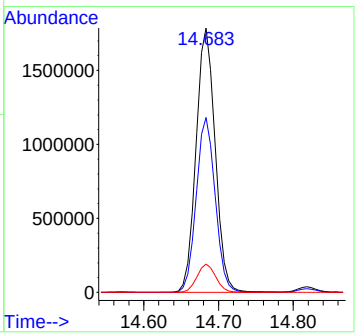


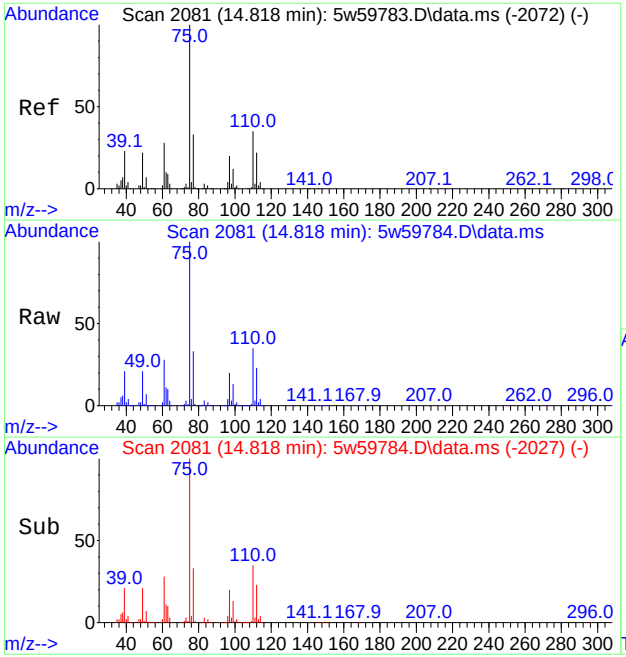


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 23.67 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 3171683

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.2	95.2
131	10.5	0.0	40.3

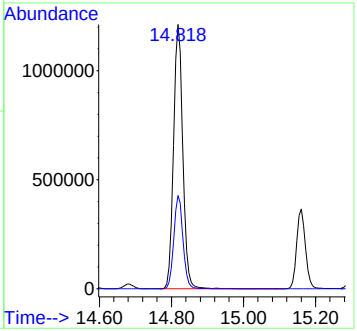


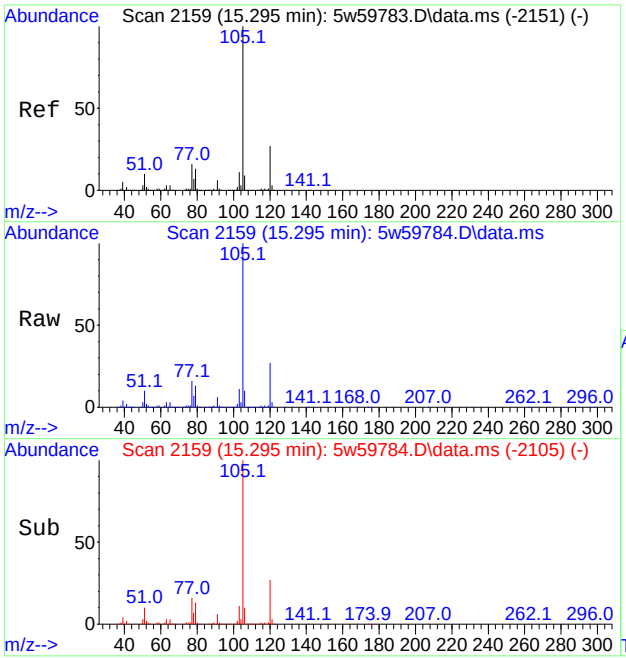


#87
1,2,3-TRICHLOROPROPANE
Concen: 19.01 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 2166410

Ion	Ratio	Lower	Upper
75	100		
110	35.1	4.4	64.4

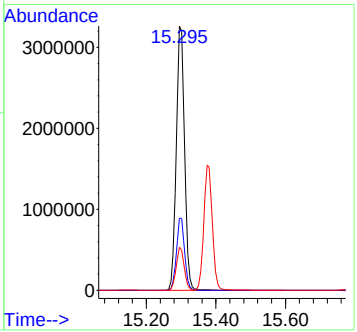


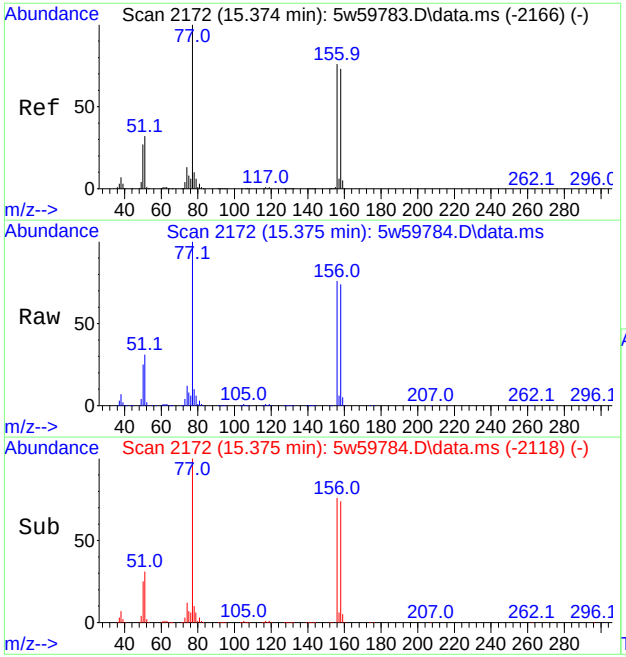


#88
ISOPROPYLBENZENE
Concen: 21.38 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5426205

Ion	Ratio	Lower	Upper
105	100		
120	26.8	0.0	56.0
77	15.7	0.0	45.6

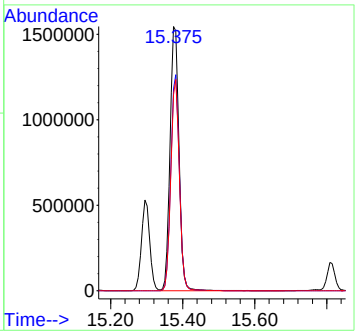


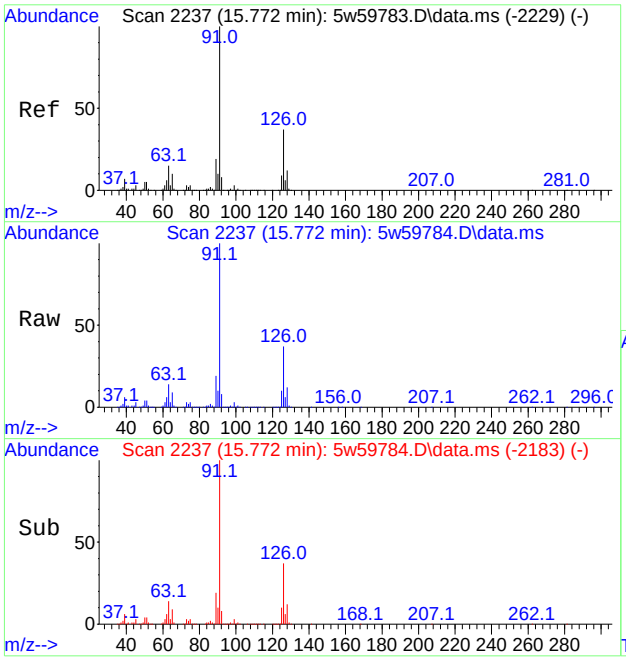


#89
BROMOBENZENE
Concen: 19.84 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 77 Resp: 2635582

Ion	Ratio	Lower	Upper
77	100		
156	79.3	54.9	101.9
158	77.4	53.5	99.3

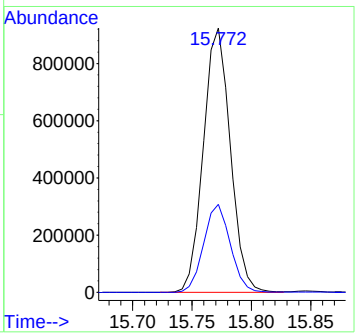


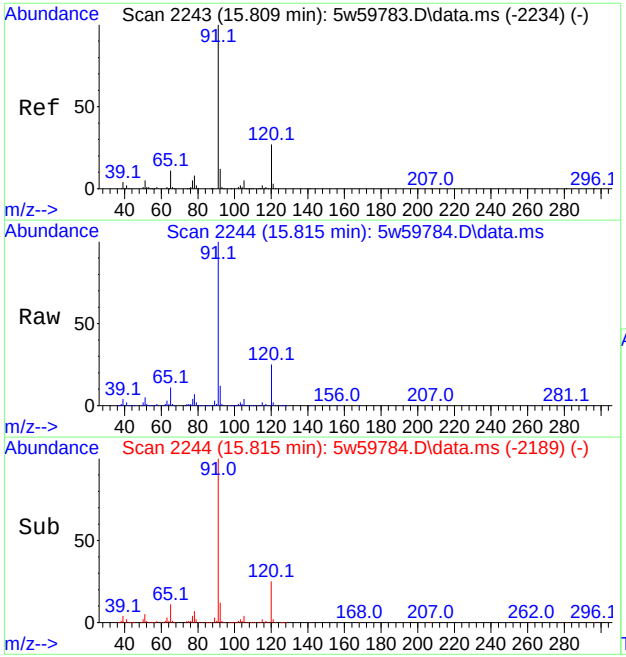


#90
2-CHLOROTOLUENE
Concen: 21.55 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:126 Resp: 1458347

Ion	Ratio	Lower	Upper
126	100		
128	33.0	2.7	62.7

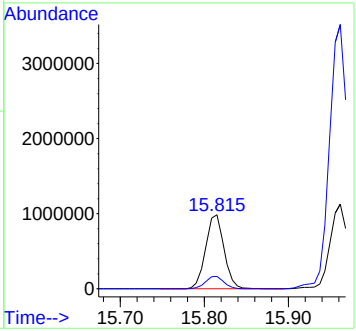


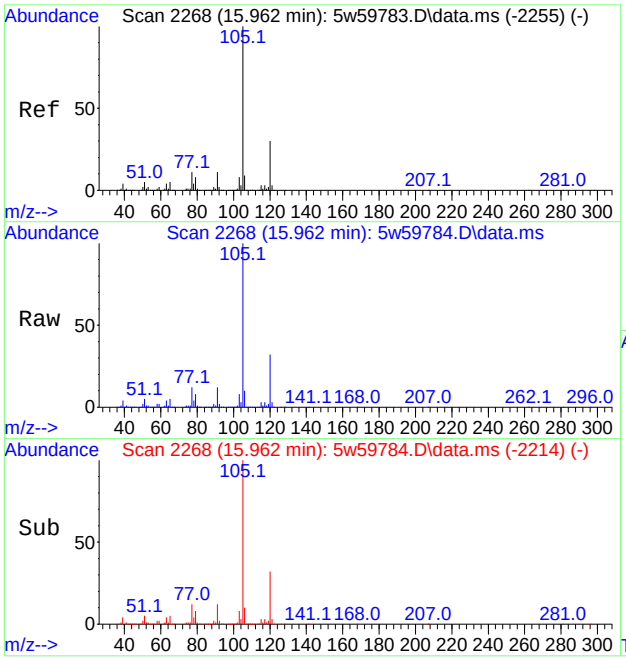


#91
n-PROPYLBENZENE
Concen: 22.21 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:120 Resp: 1498983

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

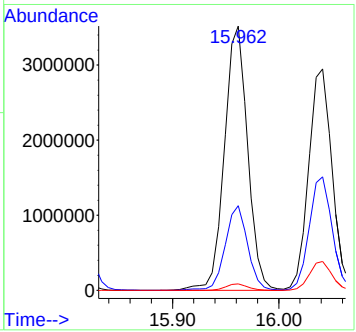


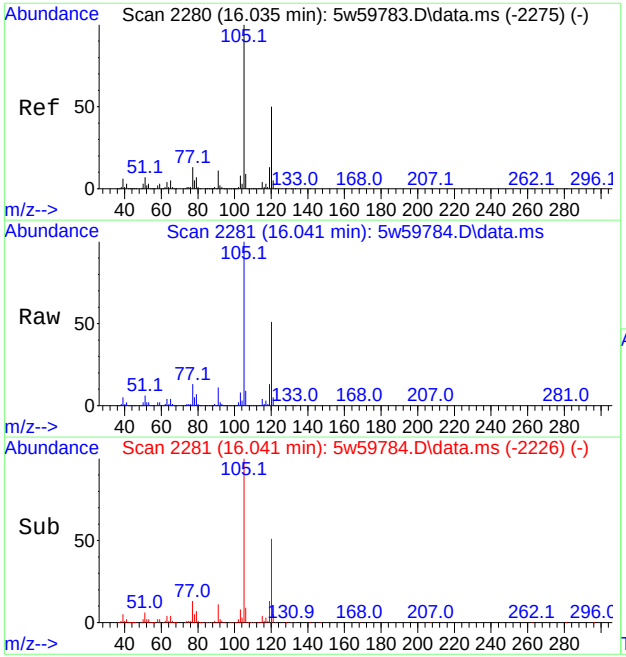


#92
4-ETHYLTOLUENE
Concen: 23.50 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5359201

Ion	Ratio	Lower	Upper
105	100		
120	30.9	0.0	59.9
119	2.4	0.0	32.3

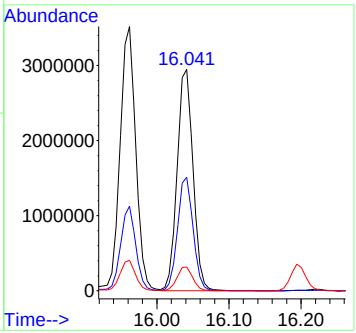


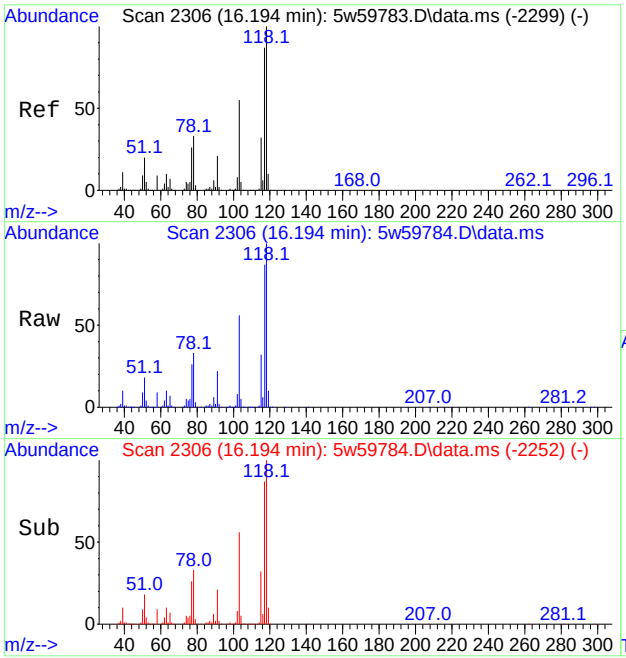


#93
1,3,5-TRIMETHYLBENZENE
Concen: 21.37 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4517483

Ion	Ratio	Lower	Upper
105	100		
120	50.2	19.4	79.4
91	10.8	0.0	40.8

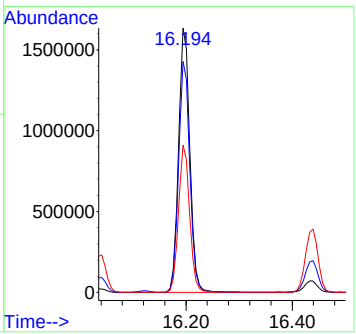


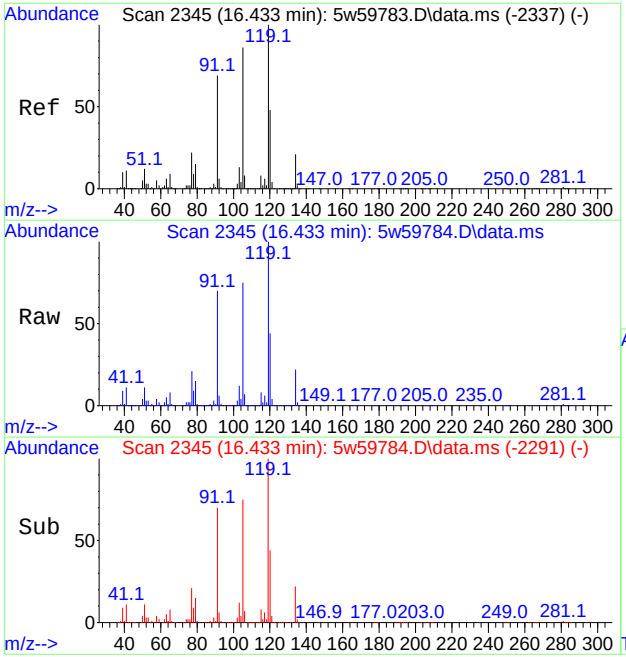


#94
ALPHA-METHYLSTYRENE
Concen: 23.73 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:118 Resp: 2401651

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.1	38.6	71.8

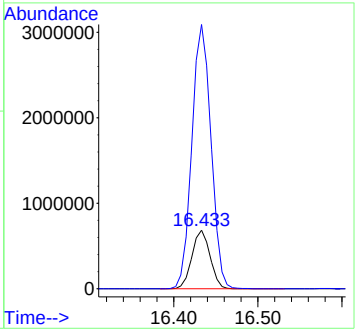


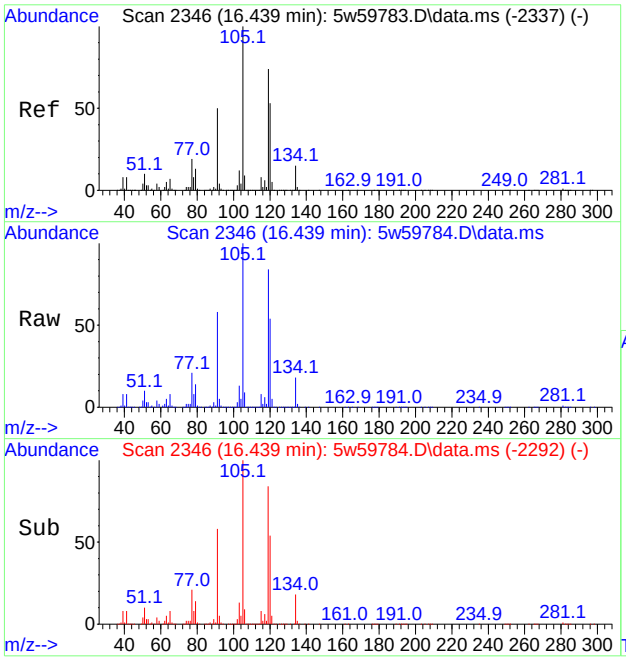


#95
tert-BUTYLBENZENE
Concen: 23.44 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1027177

Ion	Ratio	Lower	Upper
134	100		
119	476.8	459.3	519.3

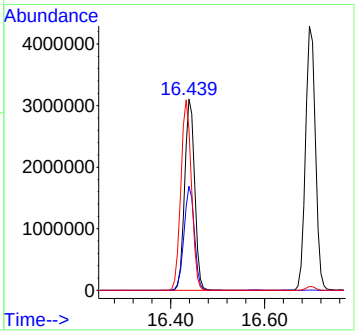


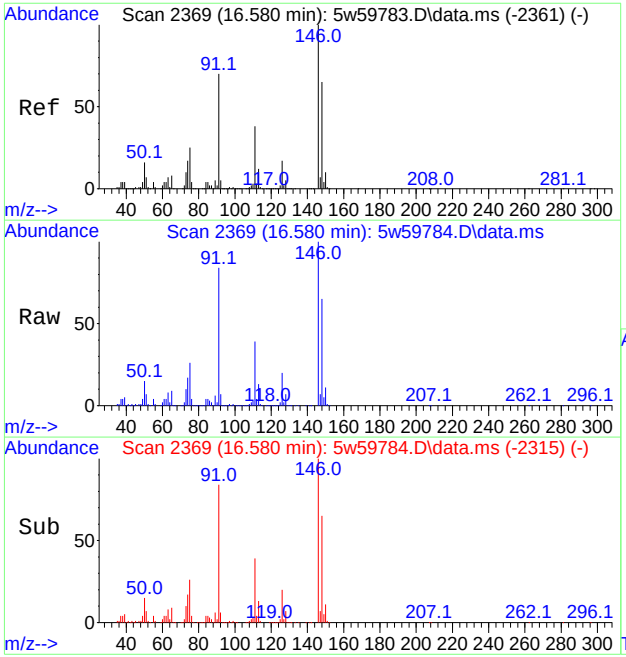


#96
1,2,4-TRIMETHYLBENZENE
Concen: 22.68 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4619537

Ion	Ratio	Lower	Upper
105	100		
120	56.6	25.7	85.7
119	106.0	75.7	135.7

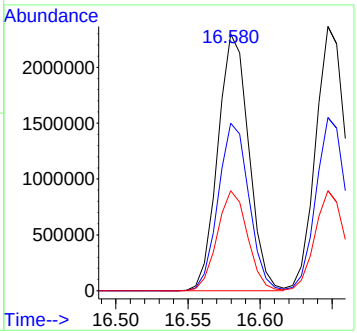


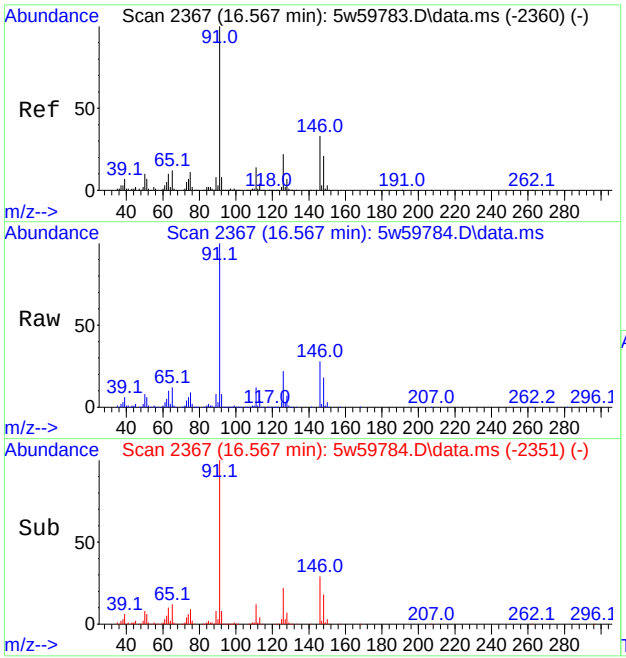


#97
m-DICHLOROBENZENE
Concen: 21.01 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3436542

Ion	Ratio	Lower	Upper
146	100		
148	65.0	34.8	94.8
111	38.3	8.2	68.2

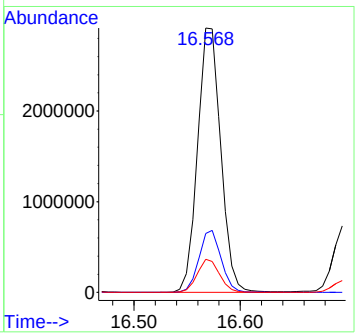


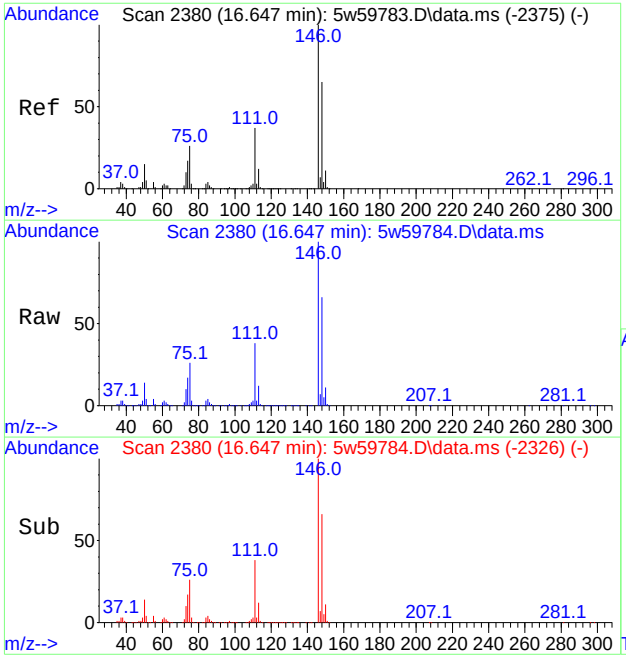


#98
BENZYL CHLORIDE
Concen: 23.83 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4433280

Ion	Ratio	Lower	Upper
91	100		
126	22.5	0.0	51.7
65	12.0	0.0	42.2

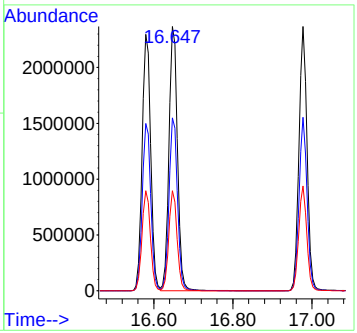


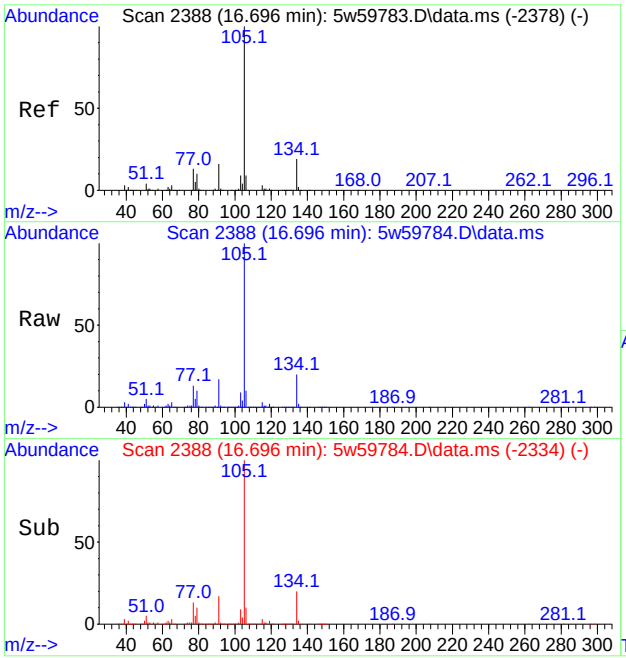


#99
p-DICHLOROBENZENE
Concen: 20.84 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3529112

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	37.0	6.7	66.7

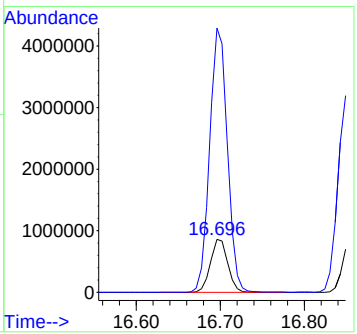


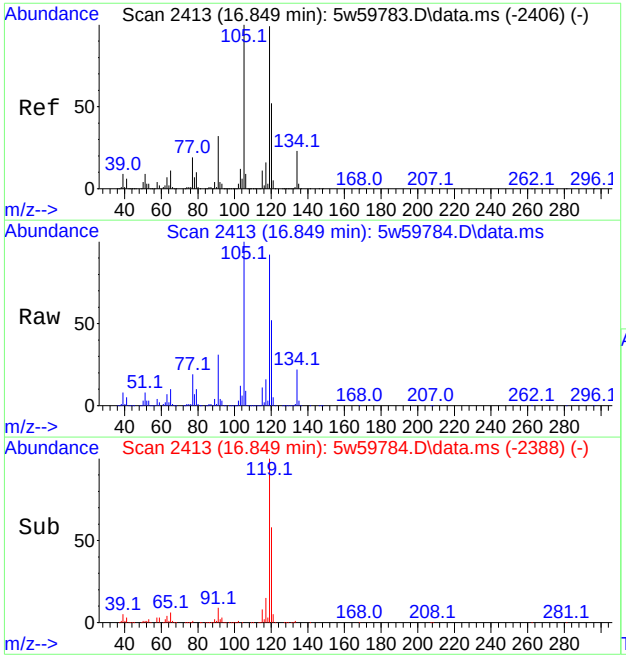


#100
sec-BUTYLBENZENE
Concen: 22.03 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1236753

Ion	Ratio	Lower	Upper
134	100		
105	509.0	502.5	562.5

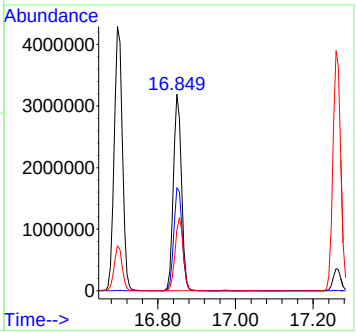


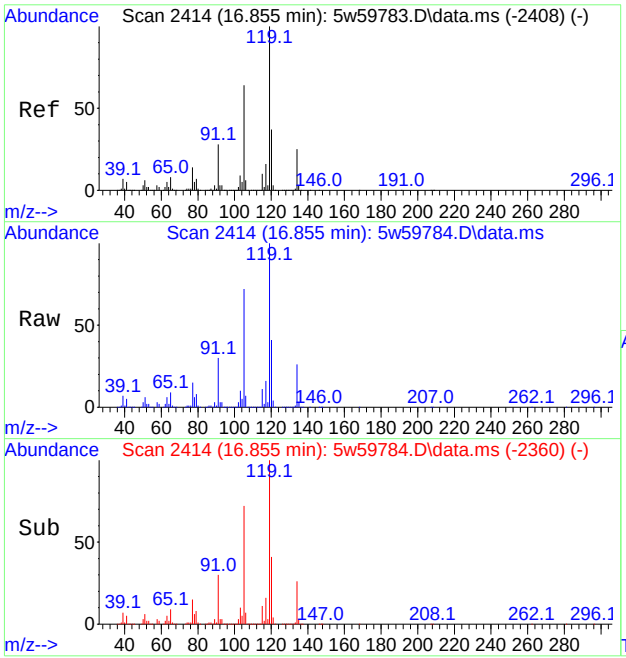


#101
1,2,3-TRIMETHYLBENZENE
Concen: 21.34 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4652009

Ion	Ratio	Lower	Upper
105	100		
120	54.4	23.5	83.5
91	37.5	7.4	67.4

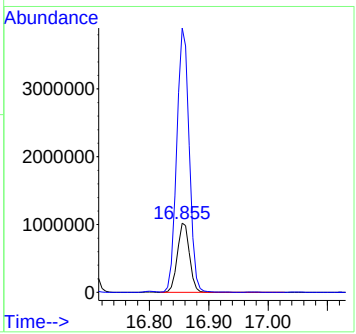


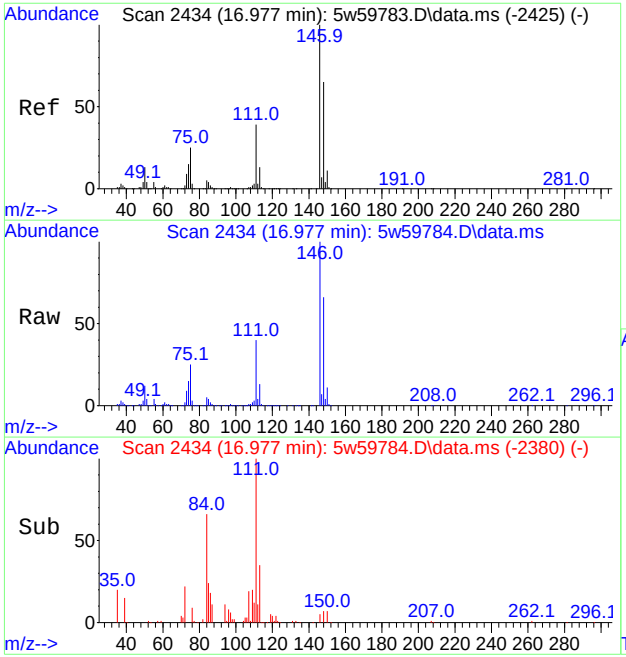


#102
p-ISOPROPYLTOLUENE
Concen: 22.76 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1464768

Ion	Ratio	Lower	Upper
134	100		
119	393.7	377.7	437.7

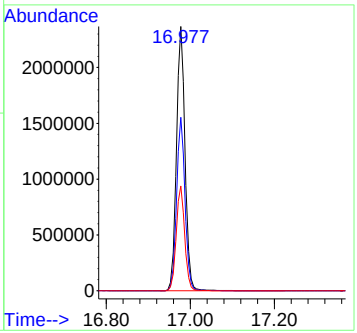


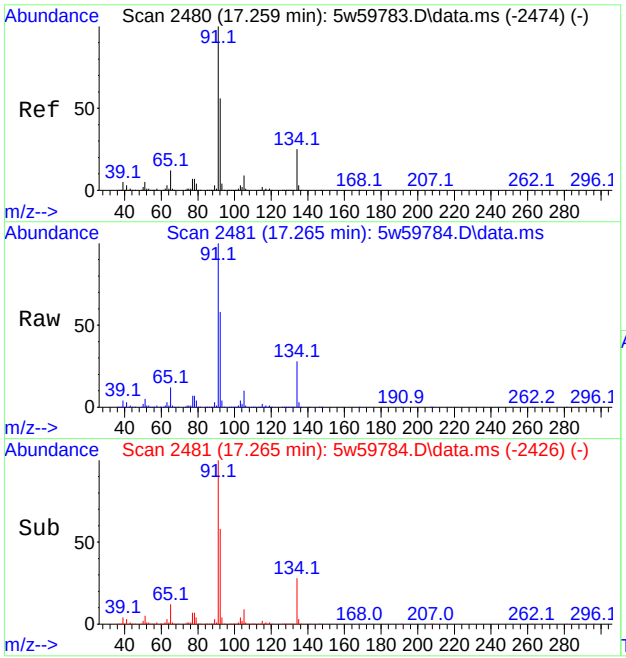


#103
o-DICHLOROBENZENE
Concen: 20.30 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3353483

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.3	94.3
111	39.4	9.2	69.2

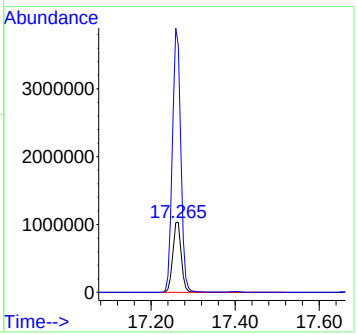


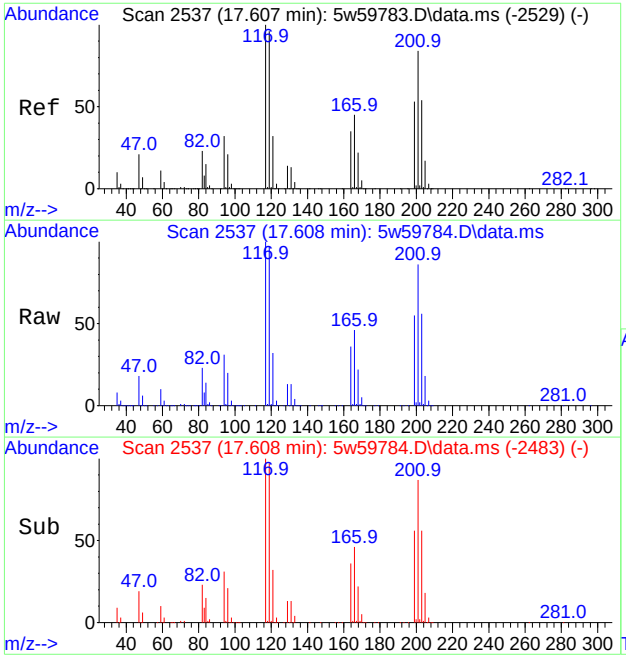


#104
n-BUTYLBENZENE
Concen: 24.56 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1447206

Ion	Ratio	Lower	Upper
134	100		
91	376.5	363.1	423.1

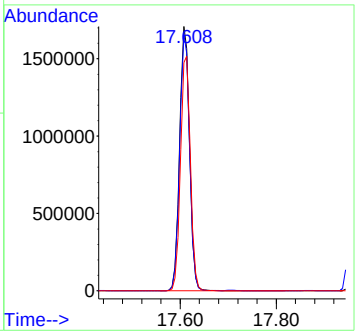


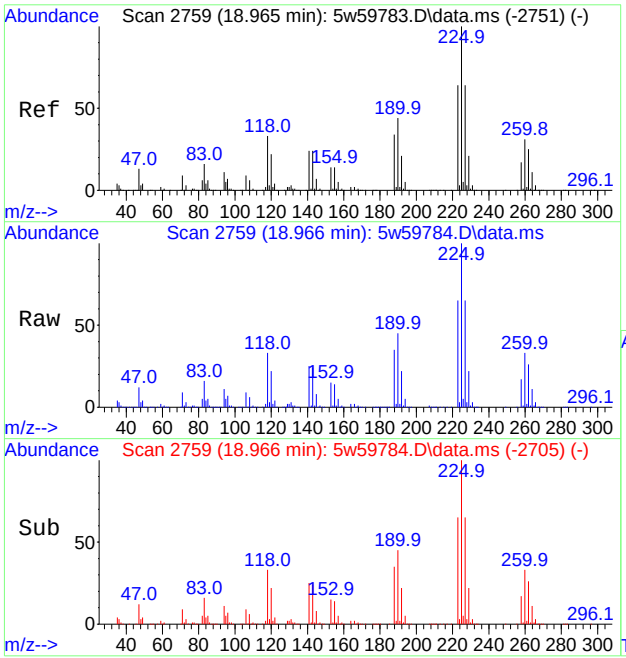


#105
HEXACHLOROETHANE
Concen: 22.06 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2435886

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	89.0	61.1	113.5

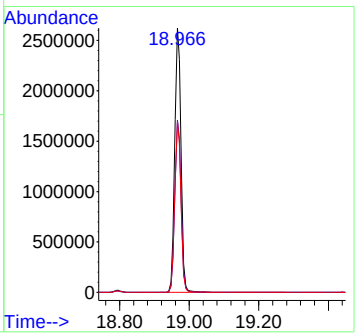


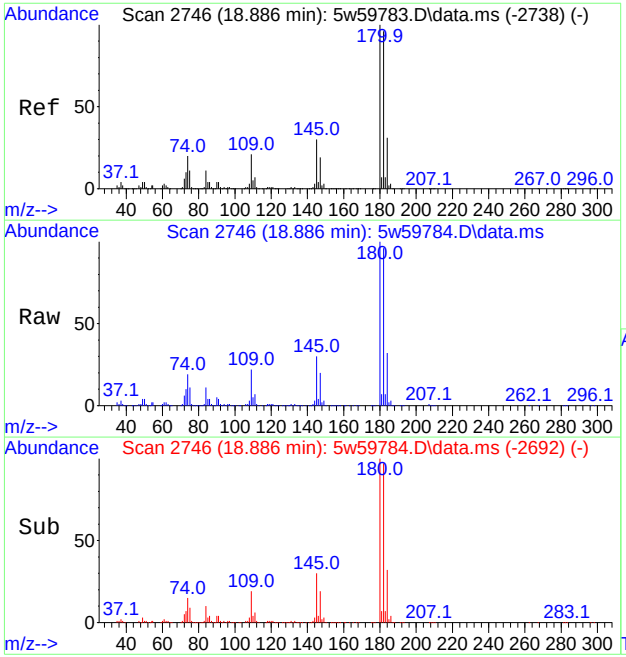


#106
HEXACHLOROBUTADIENE
Concen: 18.79 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:225 Resp: 3259497

Ion	Ratio	Lower	Upper
225	100		
227	64.9	34.2	94.2
223	64.0	33.3	93.3

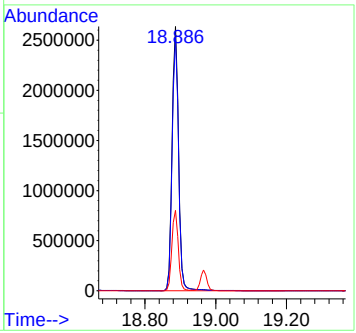


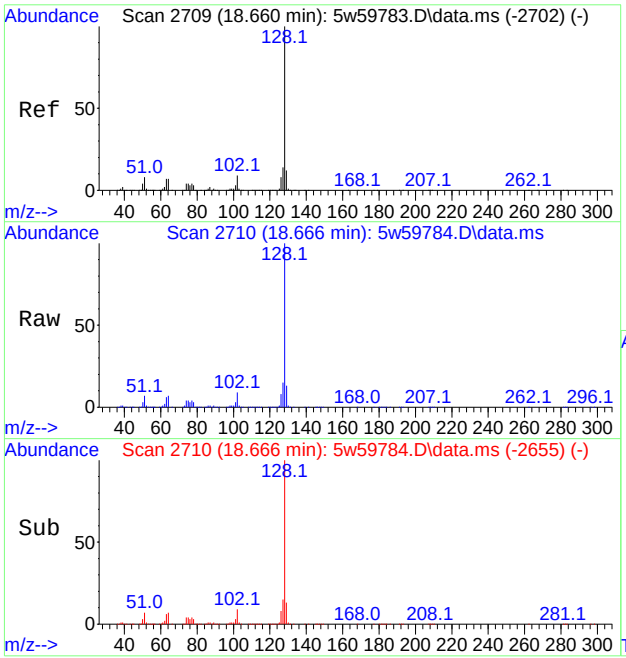


#107
1,2,4-TRICHLOROBENZENE
Concen: 28.94 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:180 Resp: 3337105

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	30.1	0.0	59.4

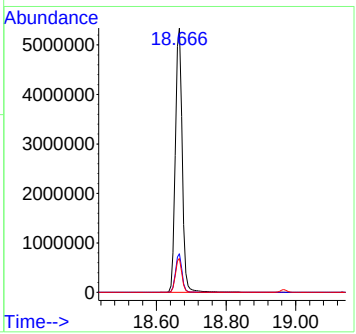


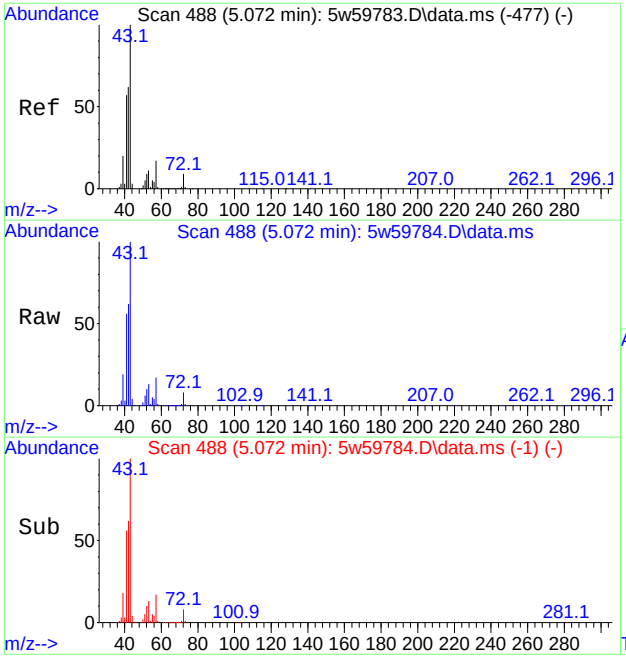


#108
NAPHTHALENE
Concen: 26.85 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:128 Resp: 7329968

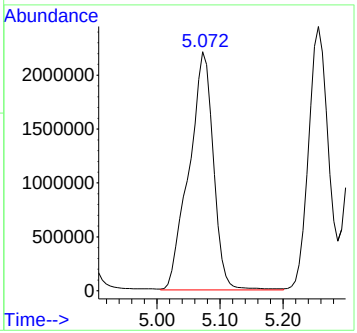
Ion	Ratio	Lower	Upper
128	100		
127	14.0	0.0	43.3
129	12.2	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 16.52 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:TIC Resp: 5936529



Manual Integration Approval Summary

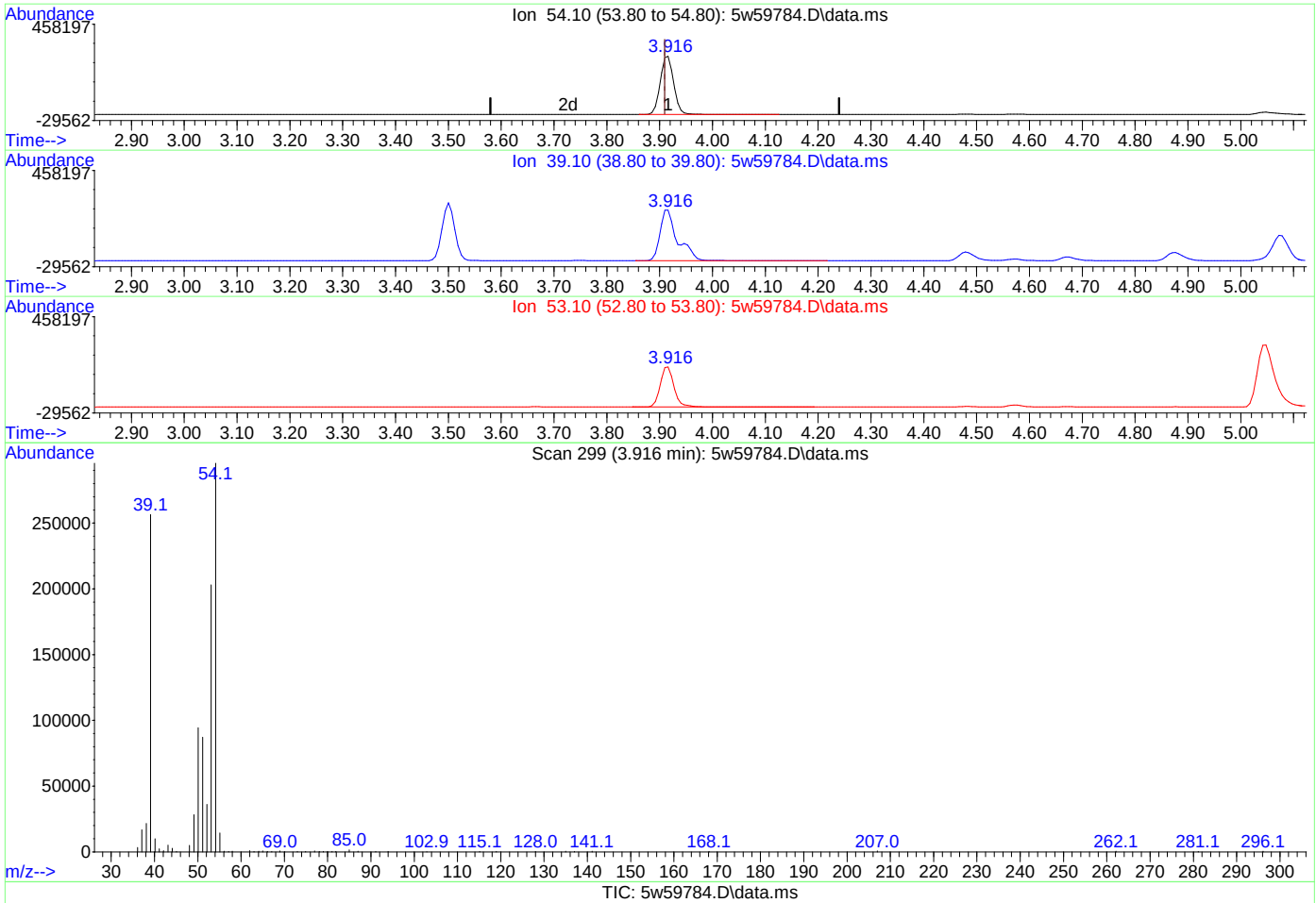
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59784.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:12 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		3.92	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV

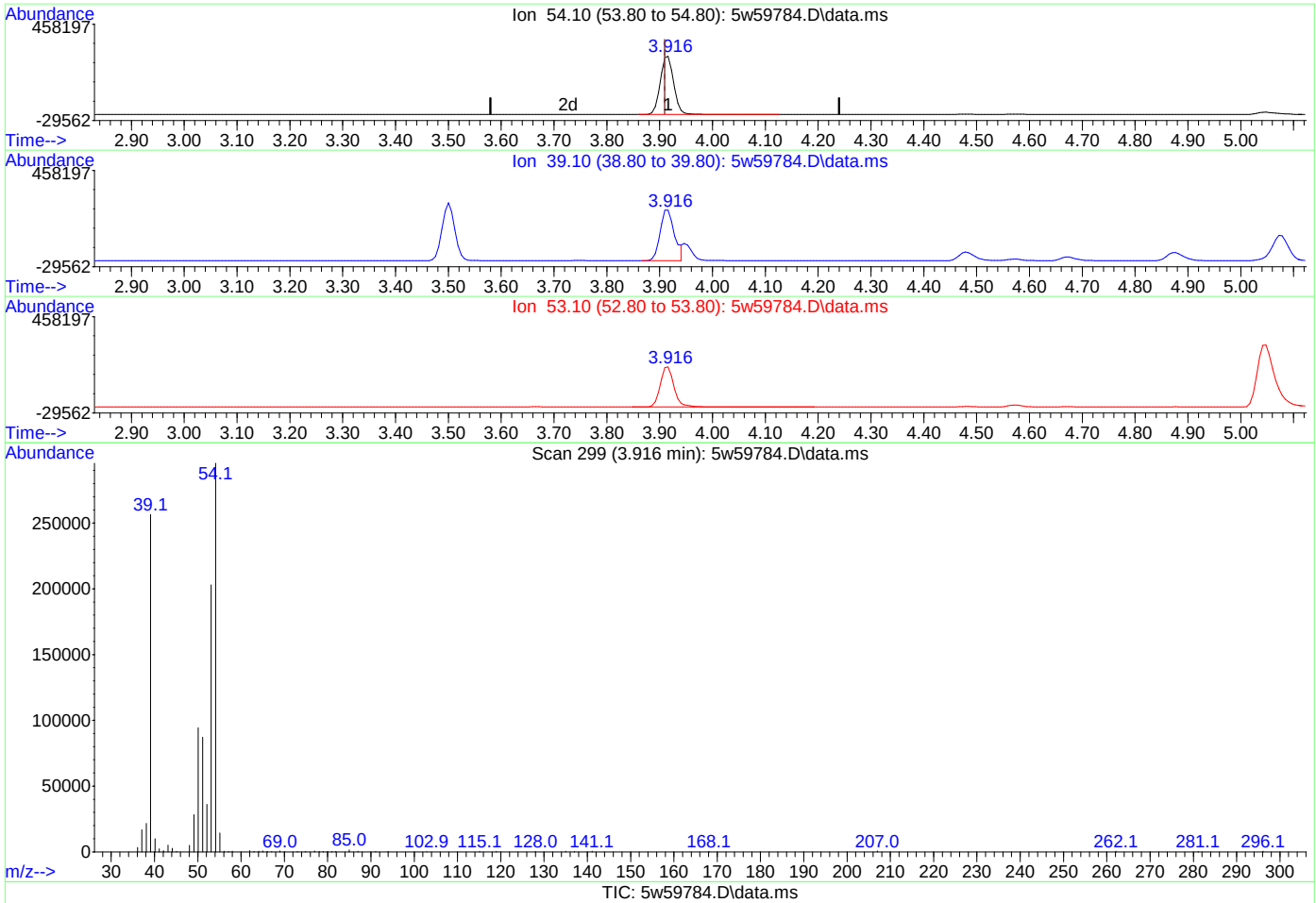
response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	113.35
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV m

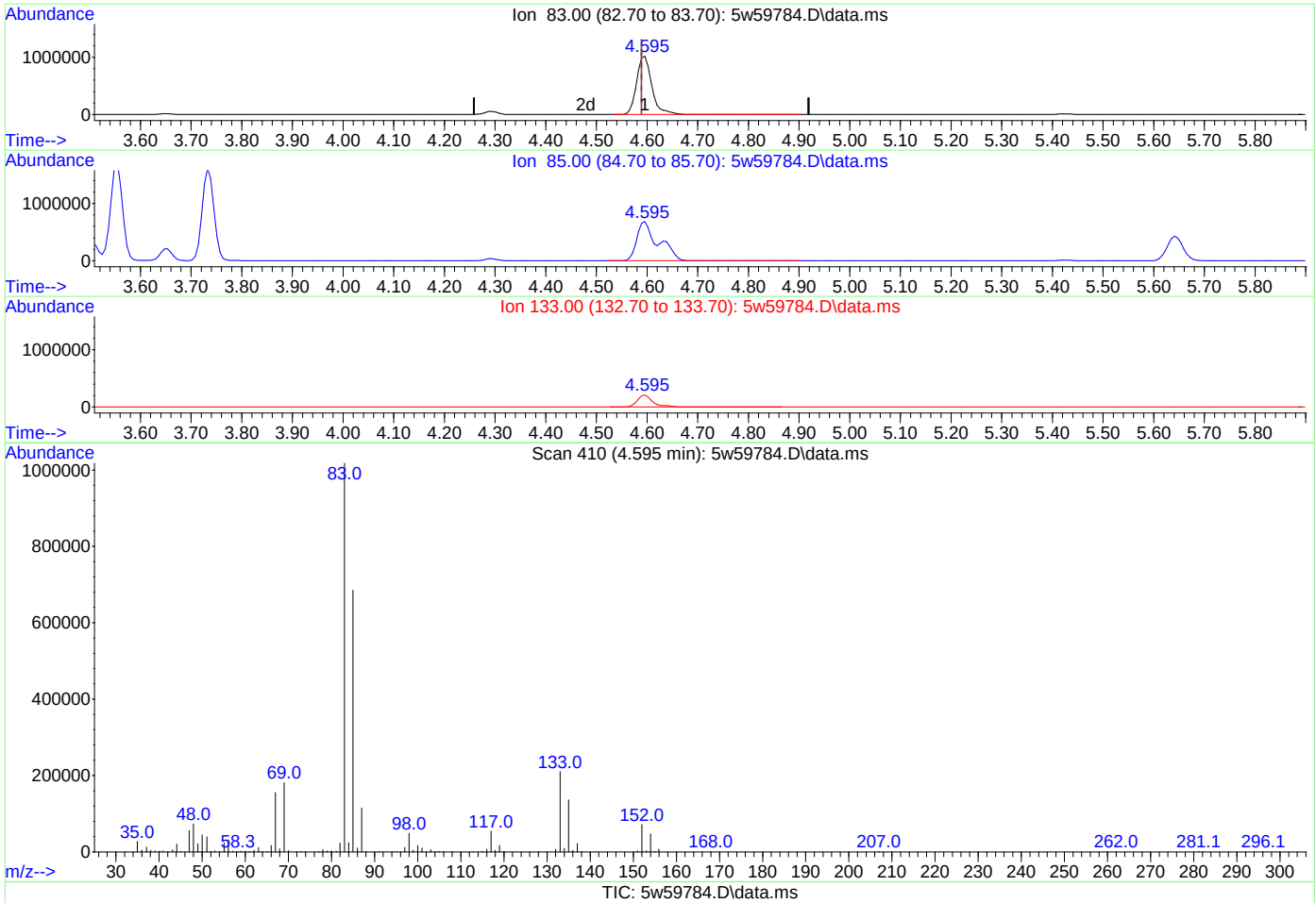
response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	93.33
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV

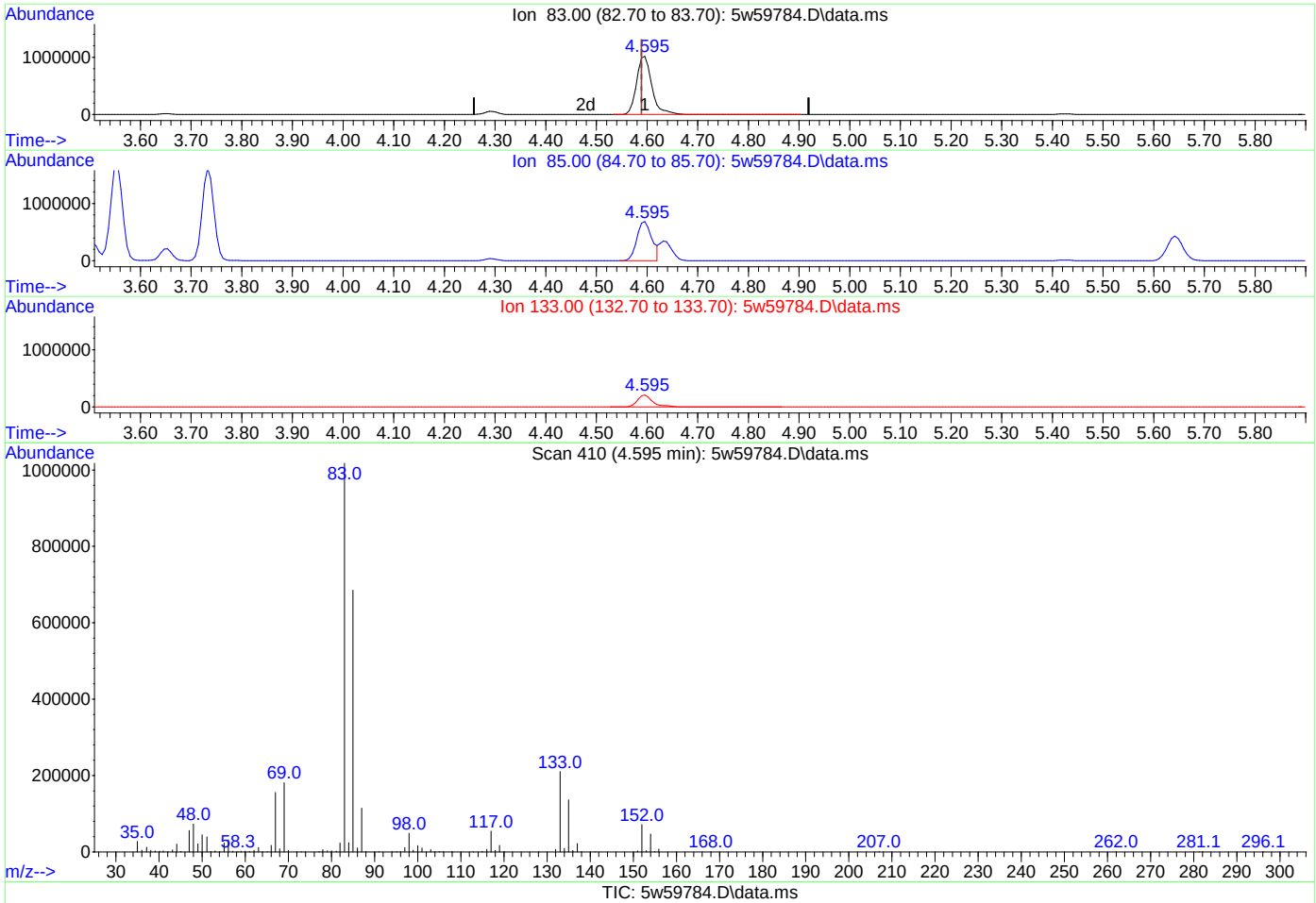
response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.23#
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV m

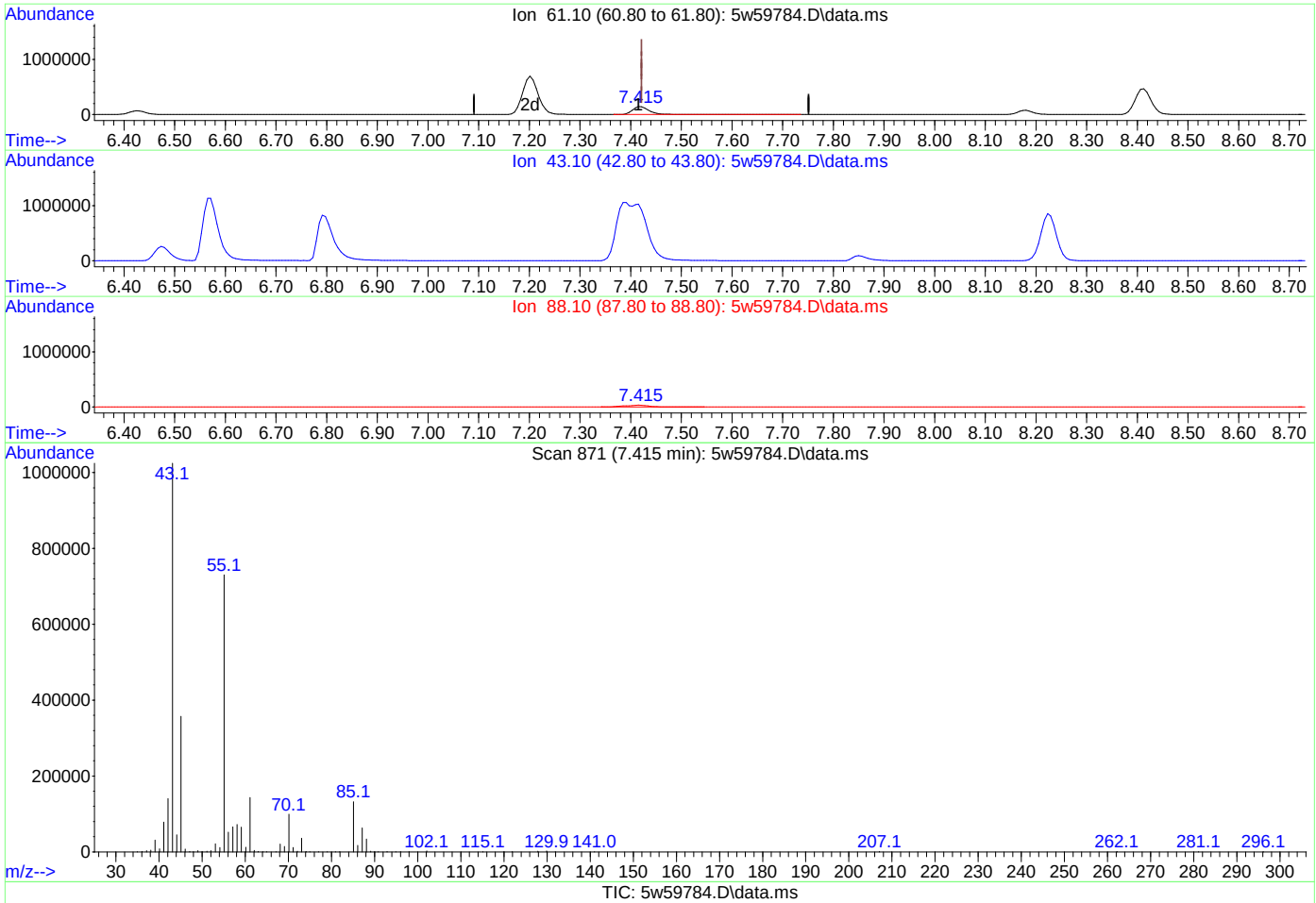
response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	66.65
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV

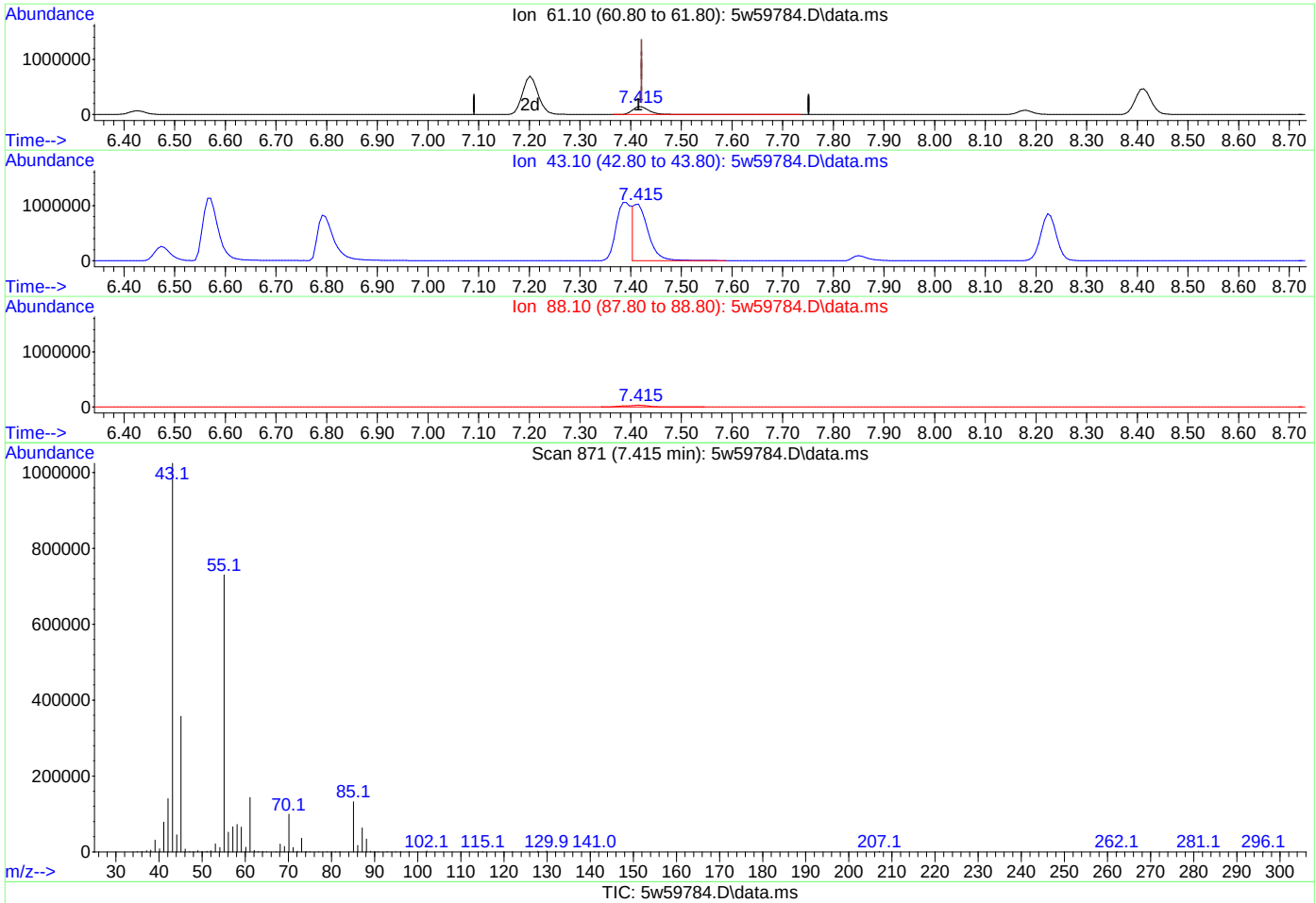
response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV m

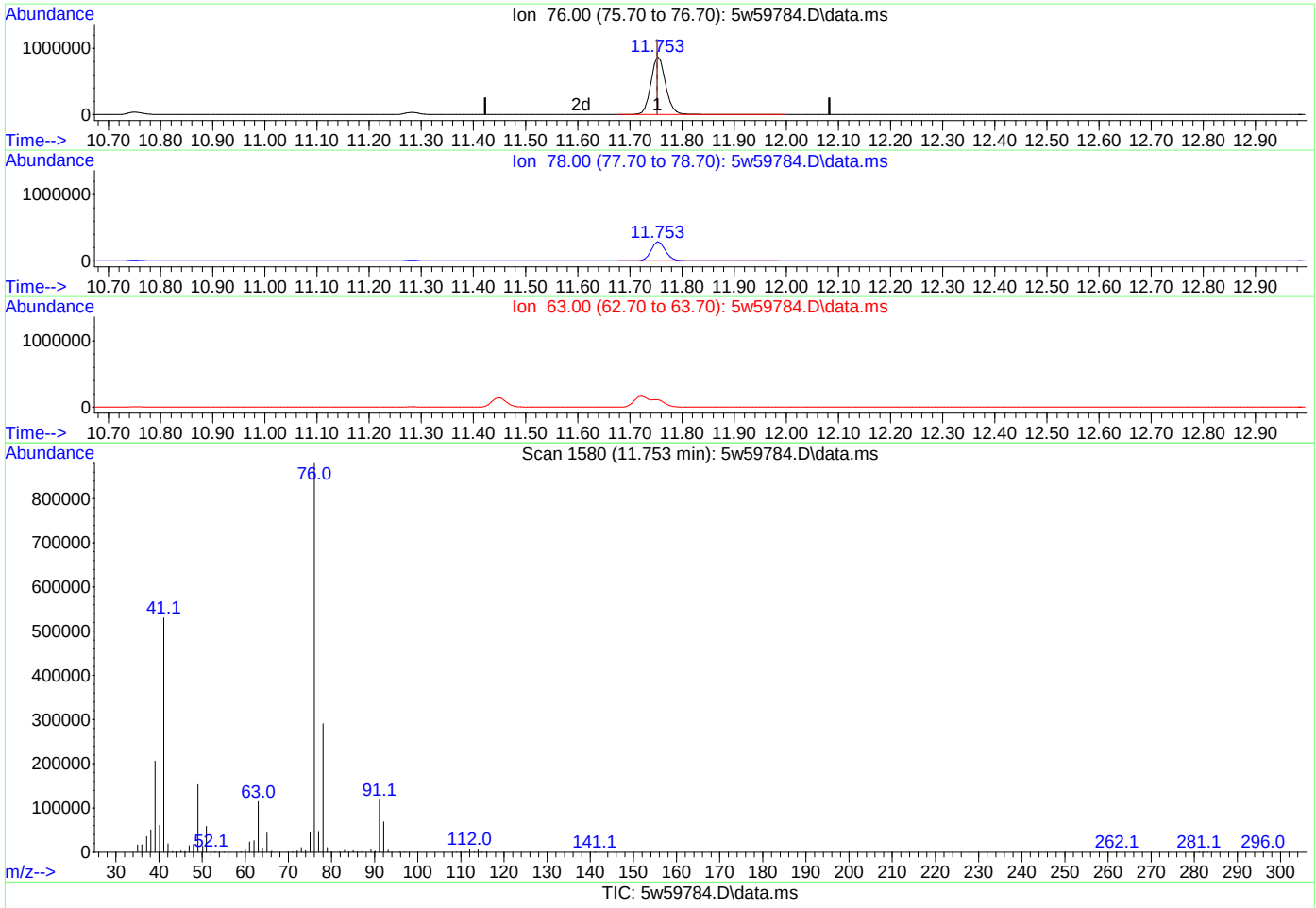
response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	580.22
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV

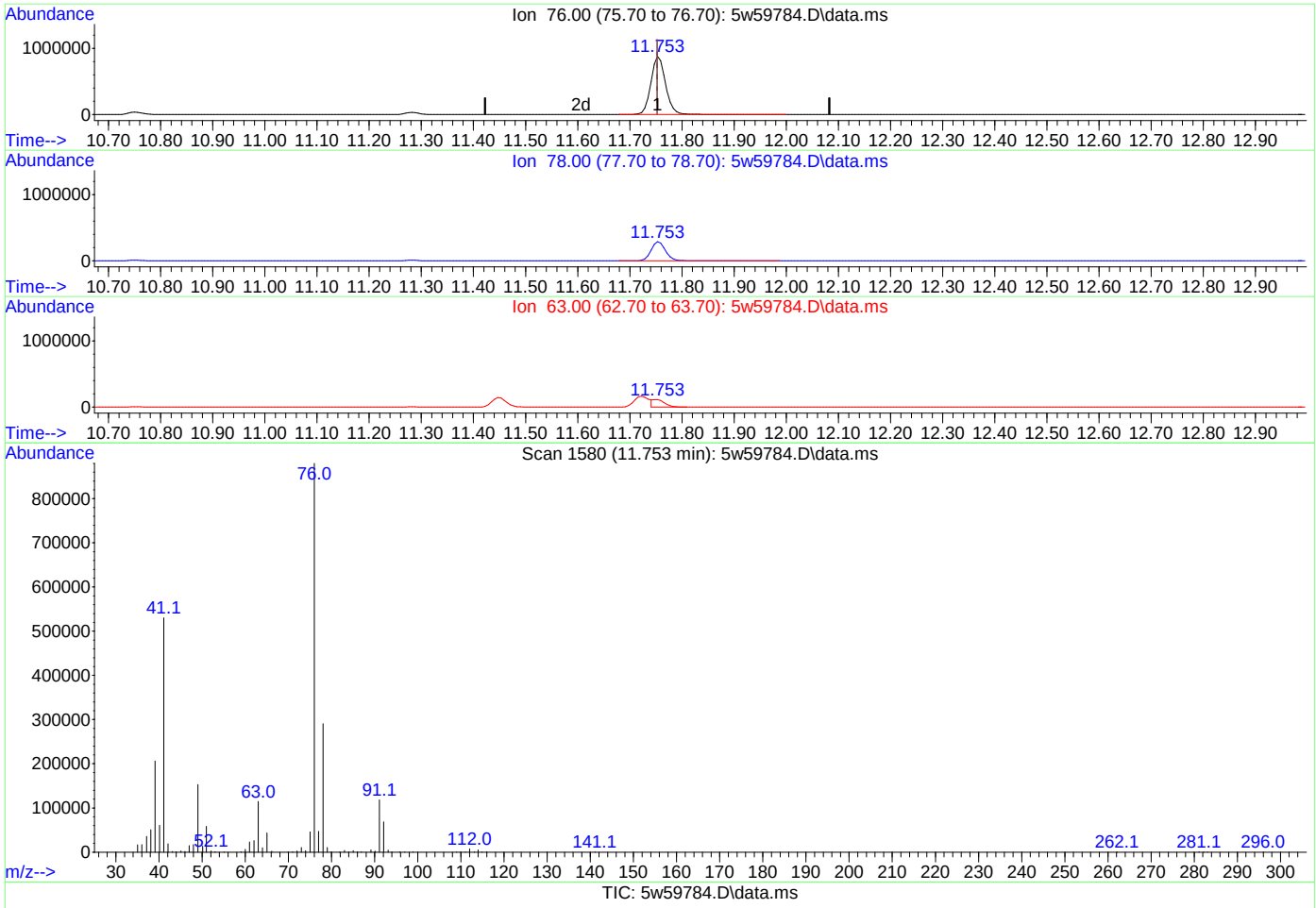
response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV m

response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	10.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	458599	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1942721	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1247352	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	458722	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1398246	9.05	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.50%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	510693	9.37	PPBV	100
3) FREON 152A	3.445	65	1313214	37.53	PPBV	97
4) CHLORODIFLUOROMETHANE	3.476	67	606229	38.04	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	3030922	39.97	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.549	85	5182161	34.55	PPBV	98
7) PROPYLENE	3.500	41	1339768	35.21	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	3864501	29.06	PPBV	99
9) FREON 114	3.733	85	4558389	35.25	PPBV	98
10) CHLOROMETHANE	3.665	52	502015	31.88	PPBV	97
11) VINYL CHLORIDE	3.818	62	1652876	33.07	PPBV	99
12) 1,3-BUTADIENE	3.910	54	986783	29.91	PPBV	99
13) n-BUTANE	3.947	43	1549667	26.23	PPBV	99
14) BROMOMETHANE	4.106	94	1791748	36.10	PPBV	100
15) CHLOROETHANE	4.228	64	730406	32.03	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	3504203	30.34	PPBV	99
17) ACETONITRILE	4.479	41	862154	25.50	PPBV	99
18) ACROLEIN	4.571	56	516183	28.89	PPBV	95
19) FREON 123	4.589	83	3786151m	32.62	PPBV	
20) FREON 123A	4.632	117	2385952	33.24	PPBV	94
21) TRICHLOROFLUOROMETHANE	4.791	101	4286330	26.66	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	3091991	27.22	PPBV	99
23) ACETONE	4.669	58	611815	29.72	PPBV	97
24) PENTANE	5.072	42	1748442	28.85	PPBV	97
25) IODOMETHANE	5.256	142	6000517	39.54	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	1913922	35.49	PPBV	96
27) CARBON DISULFIDE	5.672	76	5159120	36.29	PPBV	98
28) ETHANOL	4.320	45	528233	23.67	PPBV	99
29) BROMOETHENE	4.479	106	1797717	37.63	PPBV	100
30) ACRYLONITRILE	5.042	52	1271597	36.54	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	1660696	34.35	PPBV	97
32) 3-CHLOROPROPENE	5.525	76	861126	38.85	PPBV	93
33) FREON 113	5.641	151	3469148	36.66	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2022318	36.73	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.372	59	3394797	29.74	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	5102873	37.67	PPBV	99
37) TETRAHYDROFURAN	7.844	72	801341	44.15	PPBV	98
38) HEXANE	7.385	57	2879156	37.98	PPBV	93
39) VINYL ACETATE	6.571	86	363965	40.72	PPBV #	86
40) 1,1-DICHLOROETHANE	6.424	63	3644940	36.44	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	879599	46.66	PPBV	90
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2133694	37.52	PPBV	98
43) DIISOPROPYL ETHER	7.391	59	905463	43.95	PPBV #	83
44) ETHYL ACETATE	7.415	61	671399m	43.14	PPBV	
45) METHYL ACRYLATE	7.409	55	3595052	40.28	PPBV	97
46) CHLOROFORM	7.483	83	4216969	36.42	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	3428957	38.76	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	4473116	35.48	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	4942966	35.62	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	3028960	37.08	PPBV		99
52)	BENZENE	8.859	78	5773385	44.75	PPBV		100
53)	CYCLOHEXANE	9.110	84	2282258	44.64	PPBV		98
54)	2,3-DIMETHYLPENTANE	9.355	71	1205121	46.80	PPBV		95
55)	TRICHLOROETHYLENE	9.893	95	2886125	41.87	PPBV		99
56)	1,2-DICHLOROPROPANE	9.654	63	2329113	42.47	PPBV		99
57)	DIBROMOMETHANE	9.636	174	3208165	42.48	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	4517787	46.25	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	4951368	40.63	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	8459039	38.93	PPBV		97
61)	1,4-DIOXANE	9.893	88	1215269	45.35	PPBV	#	1
62)	HEPTANE	10.187	43	2988992	37.77	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	1989625	49.92	PPBV		98
64)	METHYL ISOBUTYL KETONE	10.786	58	1921879	47.23	PPBV		92
65)	cis-1,3-DICHLOROPROPENE	10.756	75	4023307	47.39	PPBV		92
66)	TOLUENE	11.722	92	4414753	47.83	PPBV		97
67)	1,3-DICHLOROPROPANE	11.759	76	3397591m	44.02	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	3536223	45.59	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.453	83	2422259	47.73	PPBV		100
71)	2-HEXANONE	12.004	58	2753205	43.59	PPBV		91
72)	ETHYL METHACRYLATE	12.028	69	3484828	43.20	PPBV		92
73)	TETRACHLOROETHYLENE	12.878	164	3370251	35.84	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	5622668	35.57	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	4750806	40.93	PPBV		100
76)	OCTANE	12.750	43	4235557	32.56	PPBV		94
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	3854037	37.26	PPBV		100
78)	CHLOROBENZENE	13.588	112	6101033	35.87	PPBV		99
79)	ETHYLBENZENE	13.986	91	9323124	38.31	PPBV		96
80)	m,p-XYLENE	14.188	106	7385992	79.24	PPBV		91
81)	o-XYLENE	14.683	106	3531781	41.16	PPBV		95
82)	STYRENE	14.573	104	5945197	45.55	PPBV		99
83)	NONANE	14.940	43	4120325	31.95	PPBV		94
84)	BROMOFORM	14.255	173	6063084	37.29	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	5834633	38.41	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	4239056	33.30	PPBV		98
88)	ISOPROPYLBENZENE	15.301	105	10105051	35.54	PPBV		96
89)	BROMOBENZENE	15.381	77	5092227	34.24	PPBV		97
90)	2-CHLOROTOLUENE	15.772	126	2919479	38.46	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	2929586	38.73	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	9932010	38.91	PPBV		95
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	8308295	35.08	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.200	118	4732251	41.57	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1826681	37.13	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	7744703	33.90	PPBV		97
97)	m-DICHLOROBENZENE	16.586	146	6361294	34.54	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	7942485	38.06	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	6796416	35.68	PPBV		98
100)	sec-BUTYLBENZENE	16.702	134	2382473	37.89	PPBV	#	76
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	7842082	32.09	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	2537472	35.07	PPBV	#	85
103)	o-DICHLOROBENZENE	16.983	146	6444852	34.67	PPBV		98
104)	n-BUTYLBENZENE	17.265	134	2846318	43.05	PPBV	#	78
105)	HEXACHLOROETHANE	17.614	117	4455103	36.00	PPBV		97
106)	HEXACHLOROBUTADIENE	18.972	225	5455879	28.29	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.886	180	6383531	48.55	PPBV		99
108)	NAPHTHALENE	18.666	128	12695949	41.10	PPBV		93
110)	TVHC as equiv Pentane	5.072	TIC	11631459	33.13	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

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

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

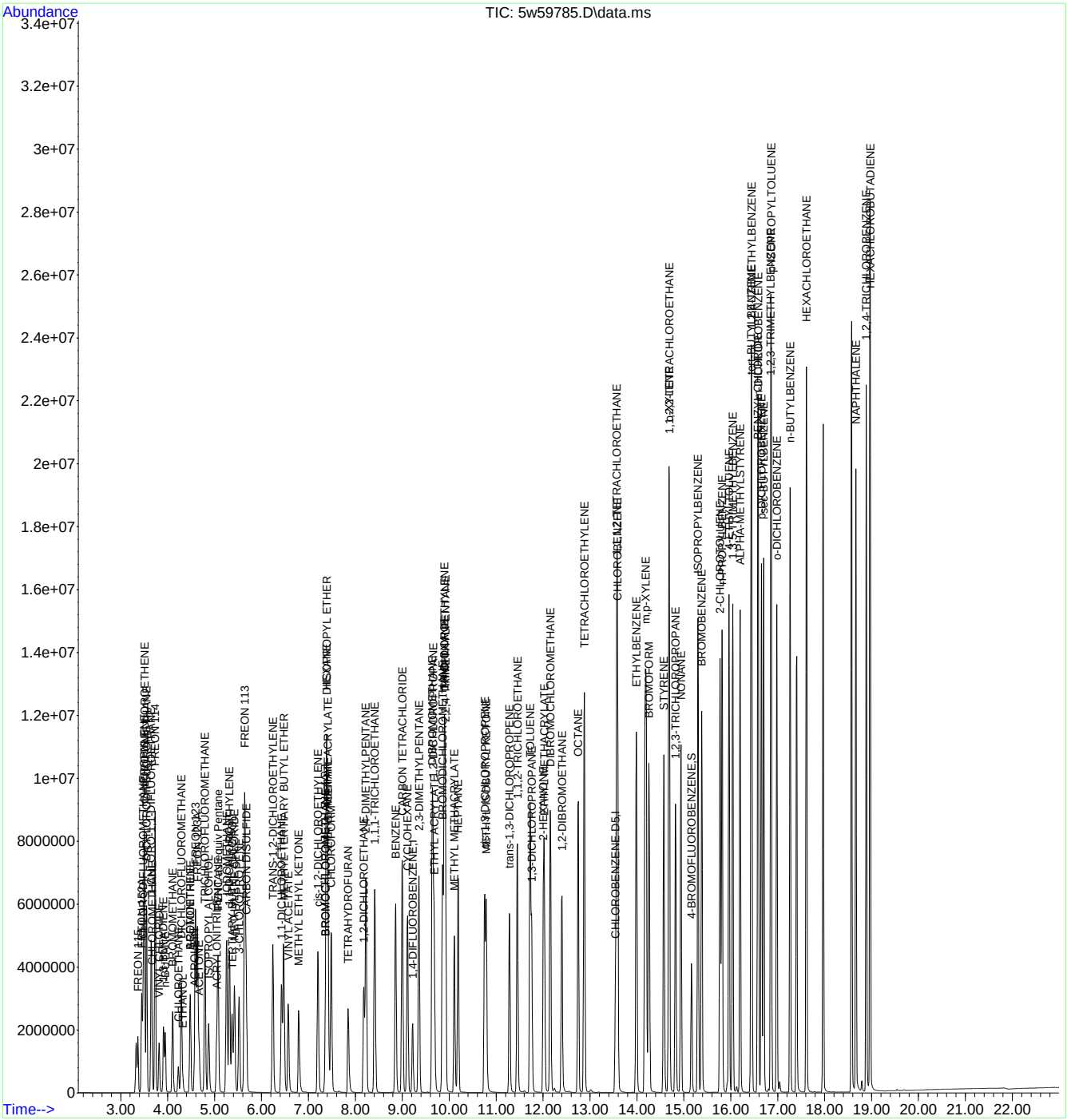
7.7.8

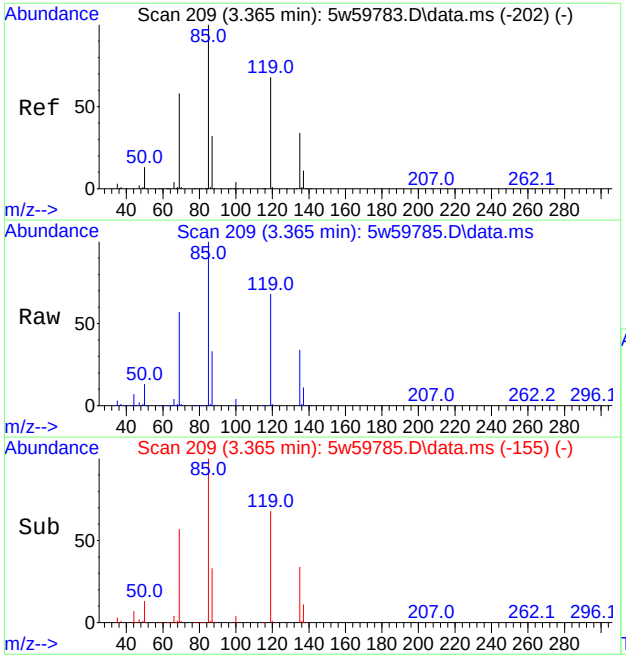
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

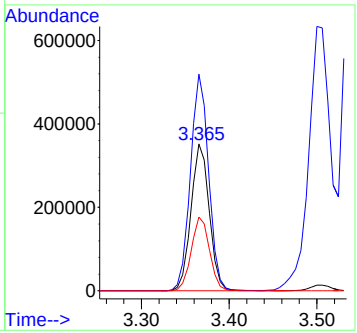


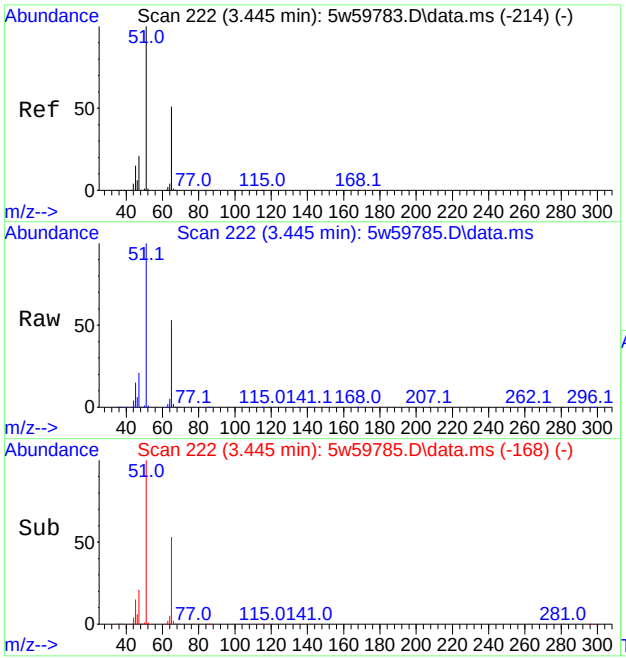


#2
FREON 115
Concen: 9.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:119 Resp: 510693

Ion	Ratio	Lower	Upper
119	100		
85	146.8	116.2	176.2
135	50.3	20.6	80.6

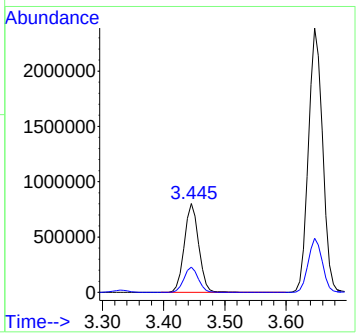


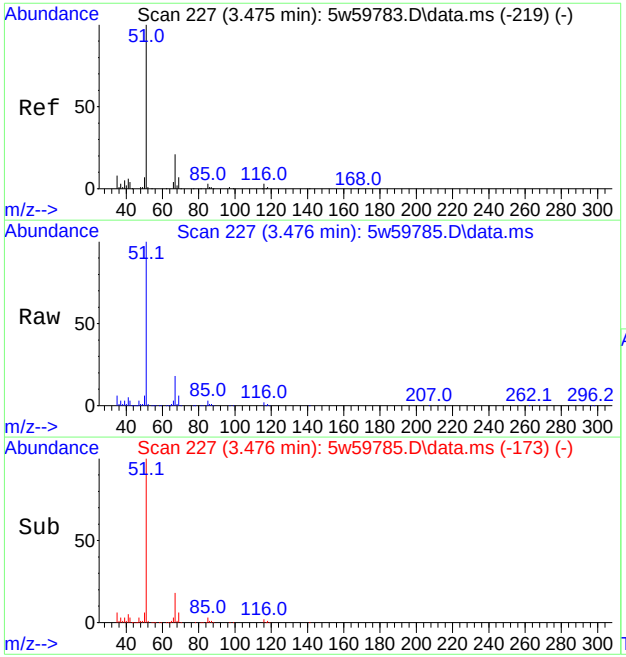


#3
FREON 152A
Concen: 37.53 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 1313214

Ion	Ratio	Lower	Upper
65	100		
45	28.4	0.0	60.0

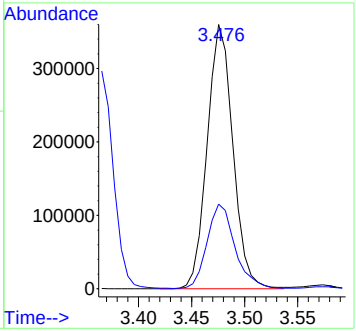


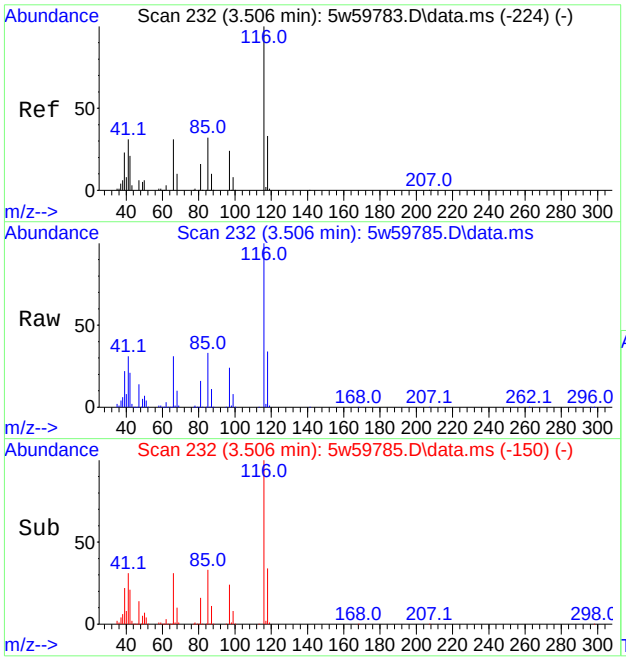


#4
CHLORODIFLUOROMETHANE
Concen: 38.04 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 606229

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

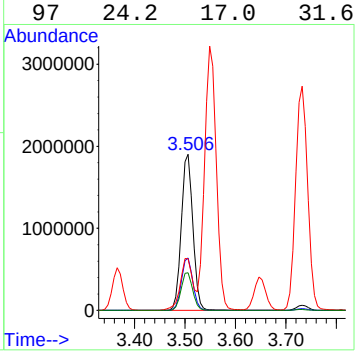


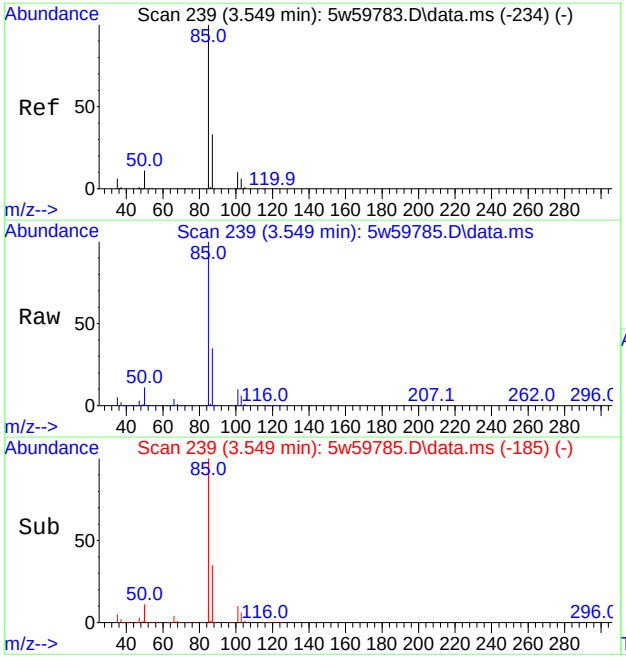


#5
CHLOROTRIFLUOROETHENE
Concen: 39.97 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:116 Resp: 3030922

Ion	Ratio	Lower	Upper
116	100		
118	33.3	22.9	42.5
85	37.1	23.7	44.1
97	24.2	17.0	31.6

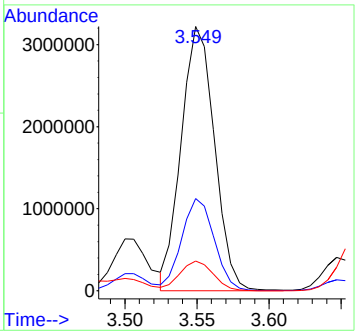


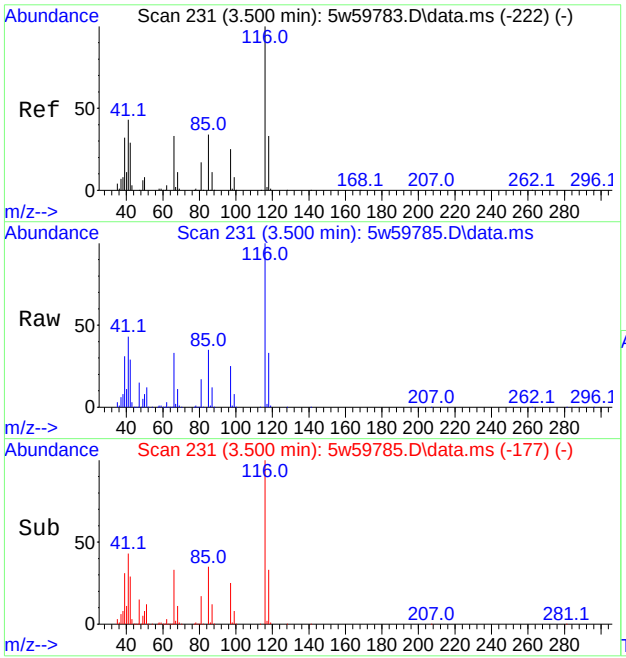


#6
DICHLORODIFLUOROMETHANE
Concen: 34.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 5182161

Ion	Ratio	Lower	Upper
85	100		
87	34.2	2.5	62.5
50	11.3	0.0	41.7

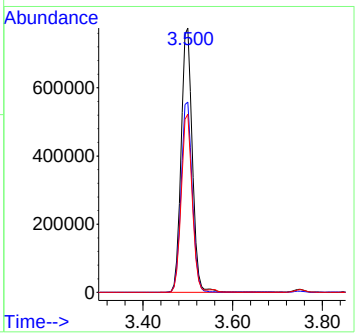


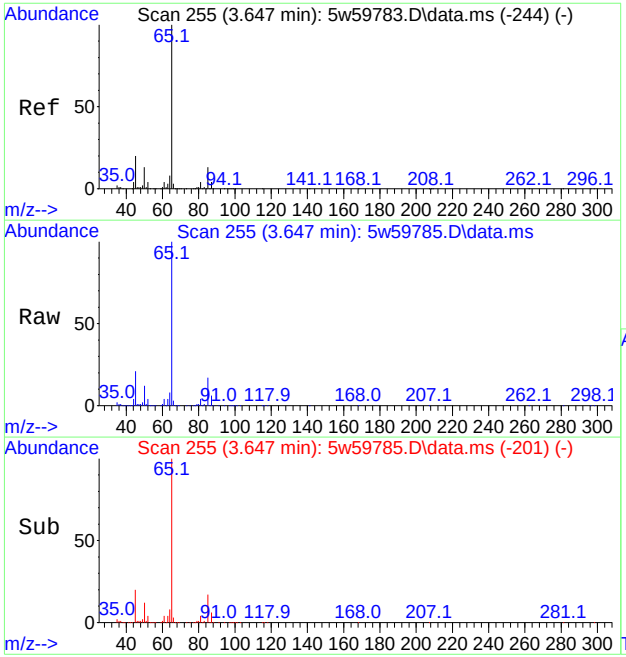


#7
PROPYLENE
Concen: 35.21 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 1339768

Ion	Ratio	Lower	Upper
41	100		
39	72.3	45.1	105.1
42	67.0	36.3	96.3

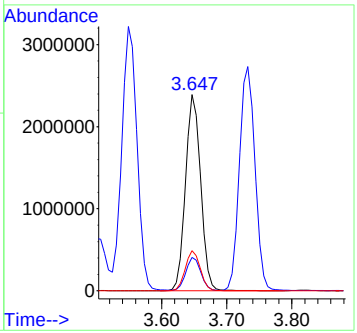


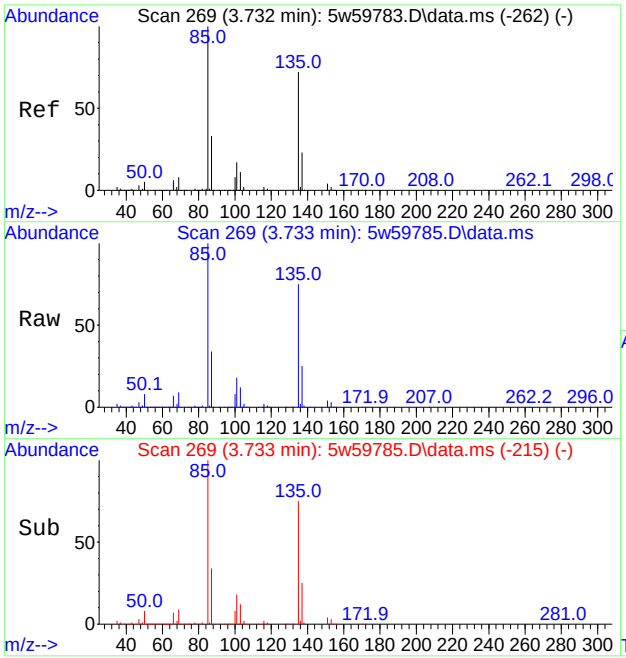


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 29.06 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 3864501

Ion	Ratio	Lower	Upper
65	100		
85	16.9	11.5	21.3
45	20.4	14.0	26.0

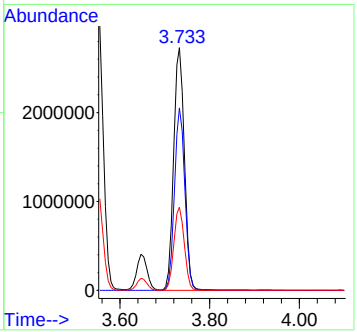


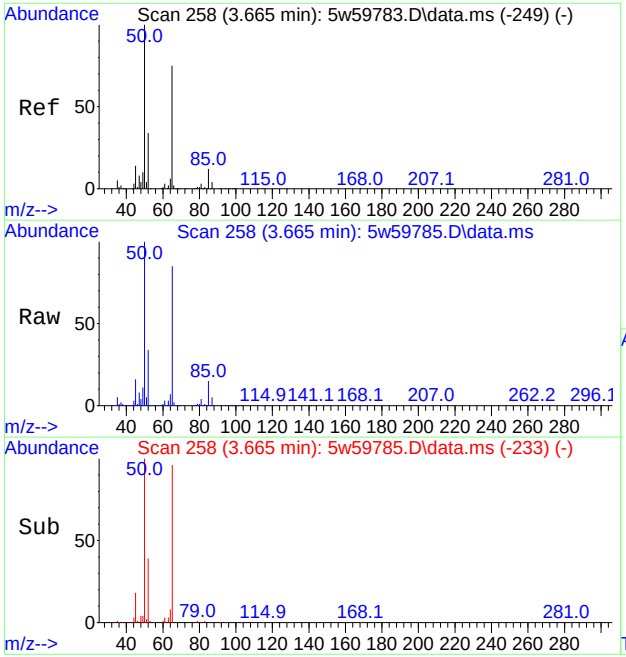


#9
FREON 114
Concen: 35.25 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 4558389

Ion	Ratio	Lower	Upper
85	100		
135	73.1	40.5	100.5
87	33.6	3.0	63.0

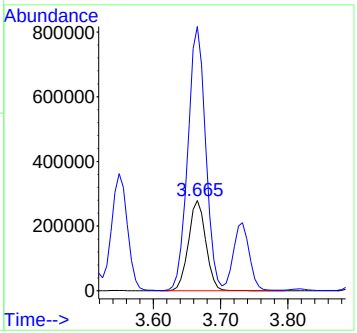


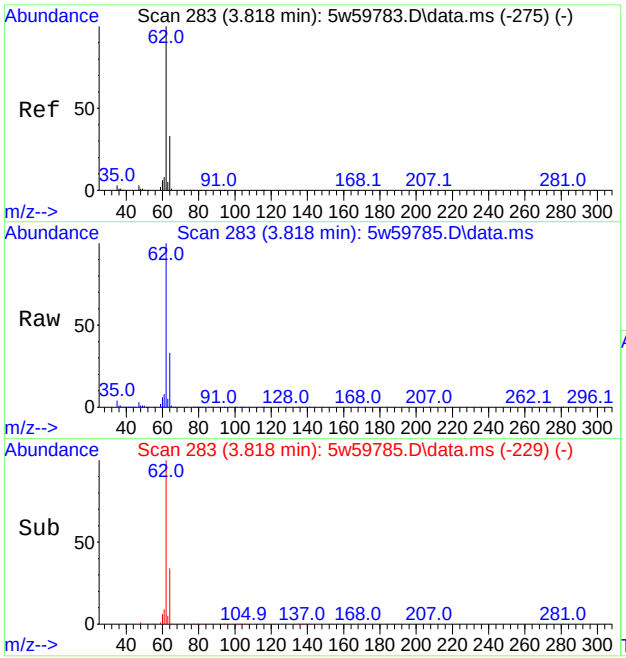


#10
CHLOROMETHANE
Concen: 31.88 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 502015

Ion	Ratio	Lower	Upper
52	100		
50	292.3	267.9	327.9

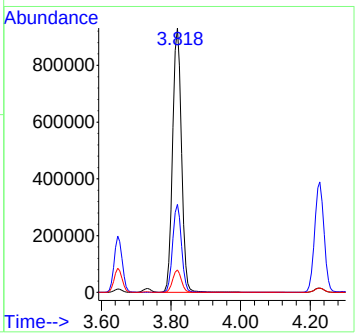


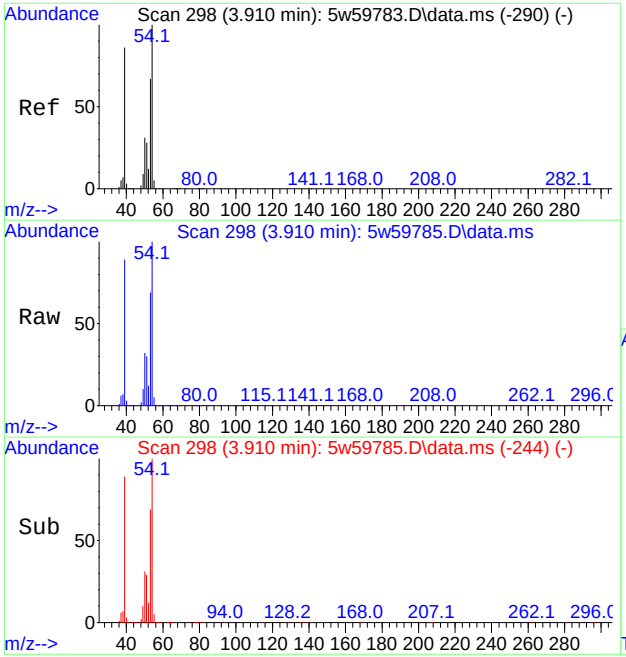


#11
VINYL CHLORIDE
Concen: 33.07 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 1652876

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

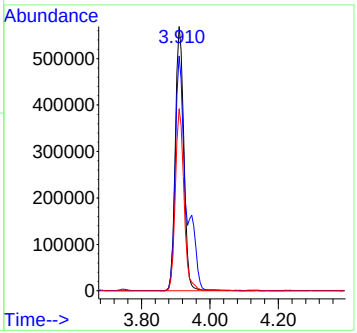


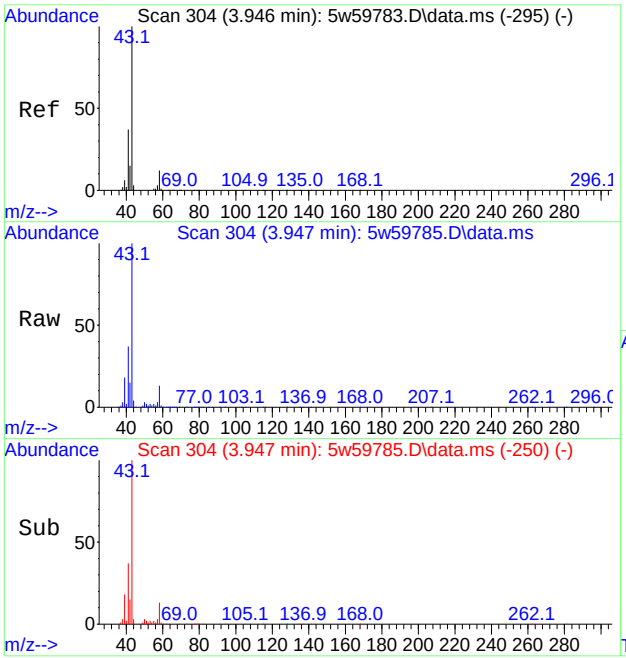


#12
1,3-BUTADIENE
Concen: 29.91 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 54 Resp: 986783

Ion	Ratio	Lower	Upper
54	100		
39	113.9	82.0	142.0
53	70.3	40.2	100.2

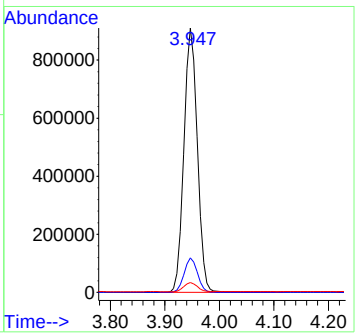


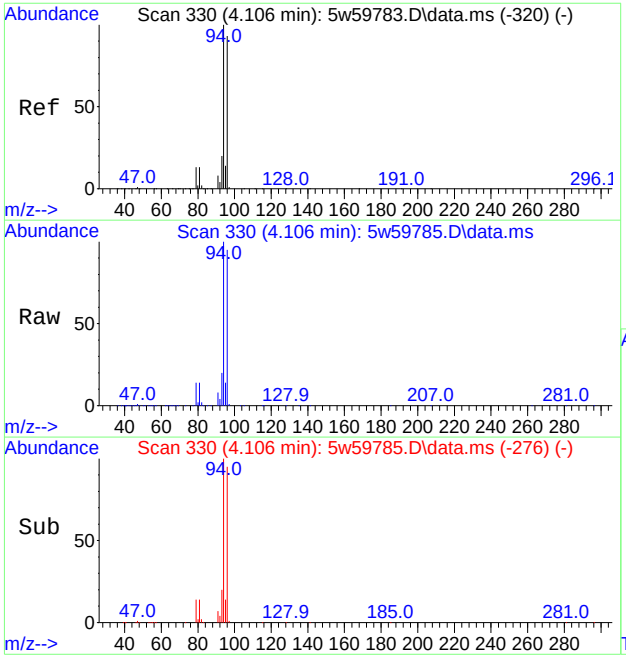


#13
n-BUTANE
Concen: 26.23 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 1549667

Ion	Ratio	Lower	Upper
43	100		
58	12.9	0.0	42.6
44	4.1	0.0	34.9

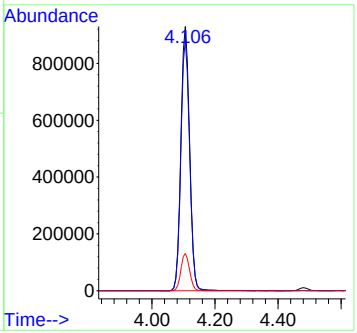


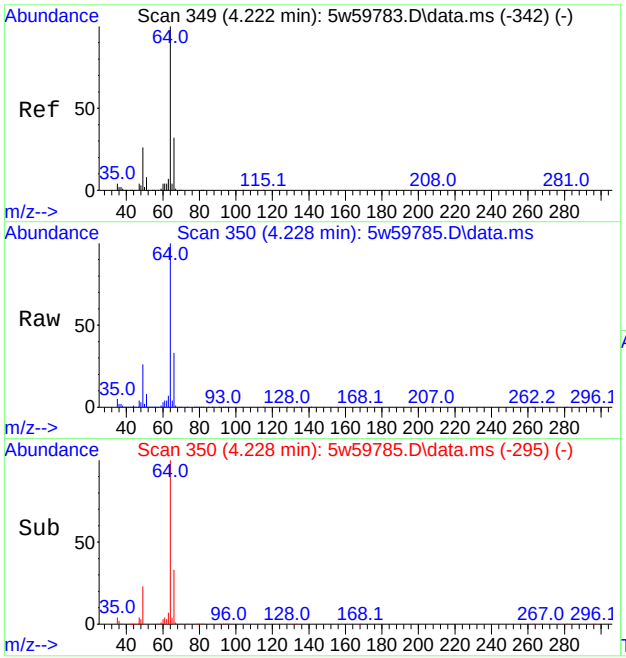


#14
BROMOMETHANE
Concen: 36.10 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 94 Resp: 1791748

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.1	0.0	44.1

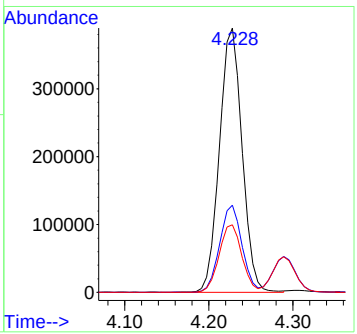


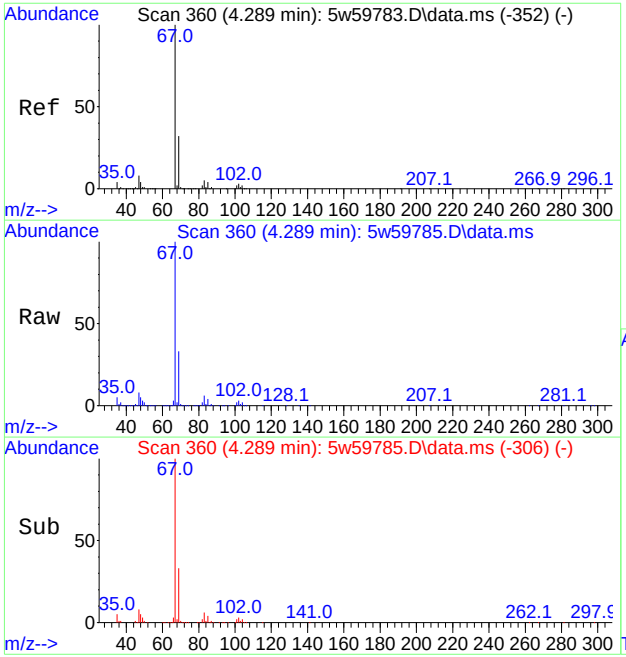


#15
CHLOROETHANE
Concen: 32.03 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 64 Resp: 730406

Ion	Ratio	Lower	Upper
64	100		
66	32.5	3.1	63.1
49	25.7	0.0	55.3

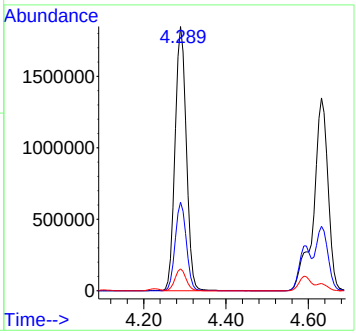


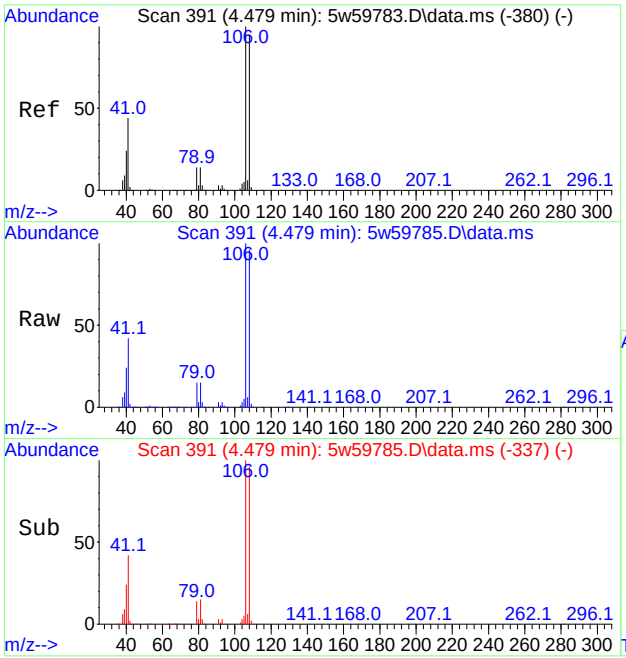


#16
DICHLOROFLUOROMETHANE
Concen: 30.34 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 3504203

Ion	Ratio	Lower	Upper
67	100		
69	33.3	22.7	42.3
47	8.3	5.6	10.4

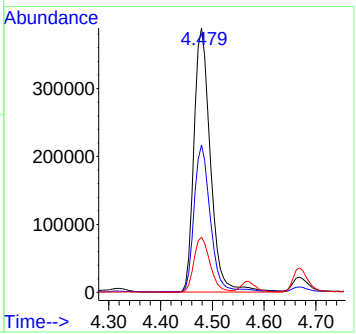


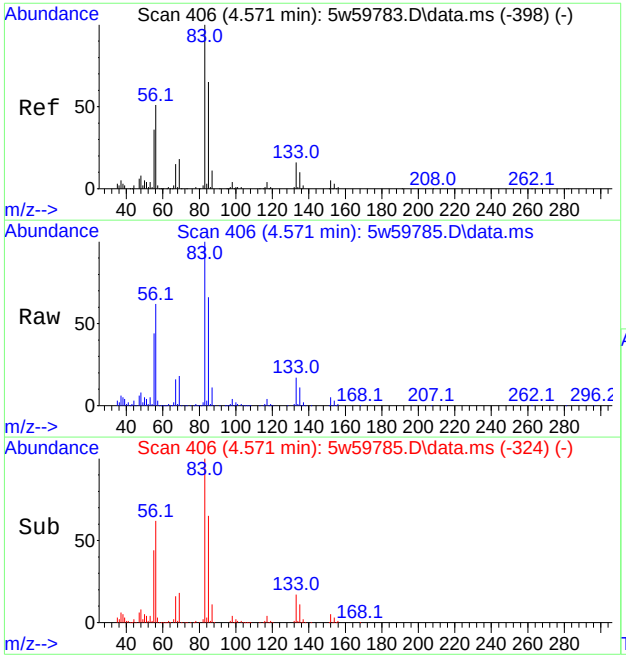


#17
ACETONITRILE
Concen: 25.50 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 862154

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

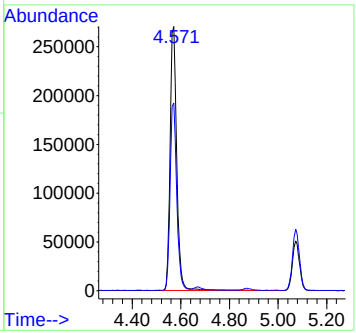


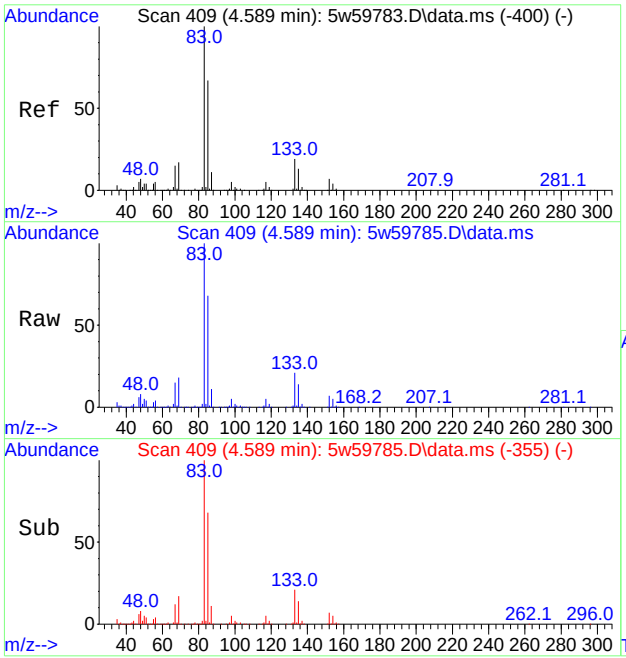


#18
ACROLEIN
Concen: 28.89 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 56 Resp: 516183

Ion	Ratio	Lower	Upper
56	100		
55	70.8	46.6	86.6

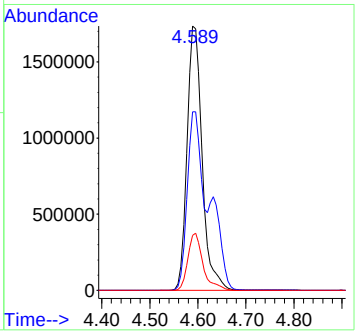


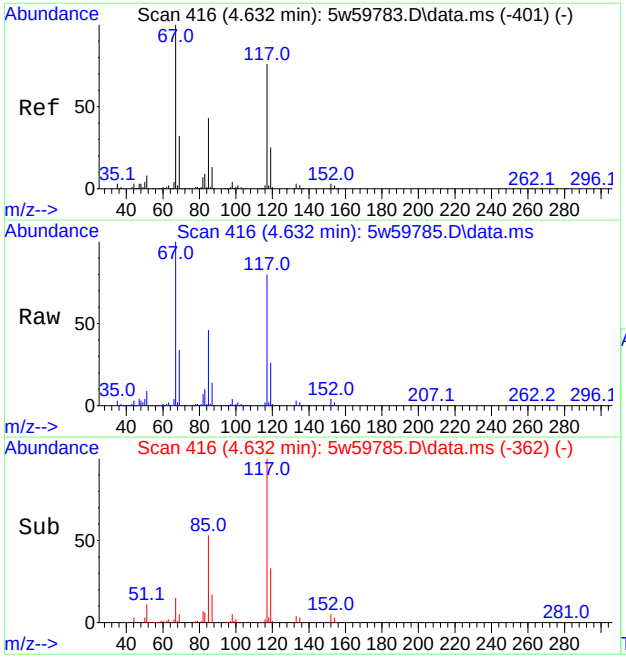


#19
FREON 123
Concen: 32.62 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 3786151

Ion	Ratio	Lower	Upper
83	100		
85	63.6	34.0	94.0
133	21.9	0.0	50.7

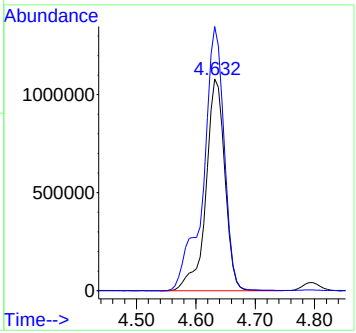


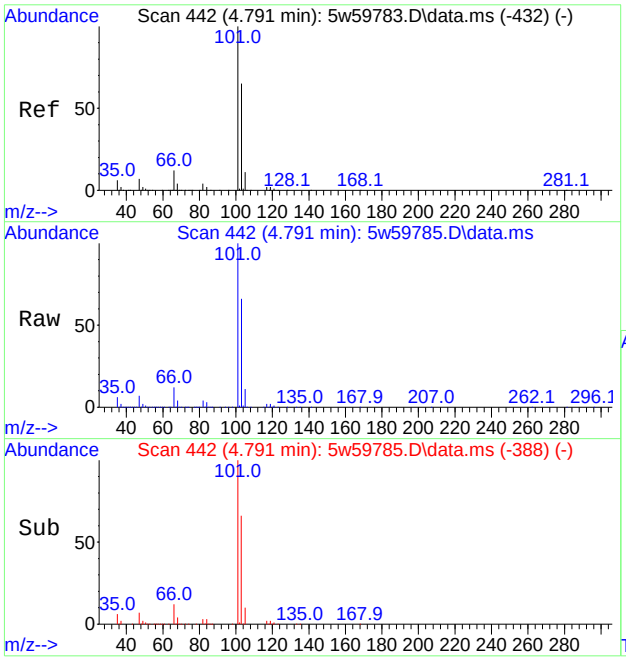


#20
FREON 123A
Concen: 33.24 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 2385952

Ion	Ratio	Lower	Upper
117	100		
67	137.4	114.6	174.6

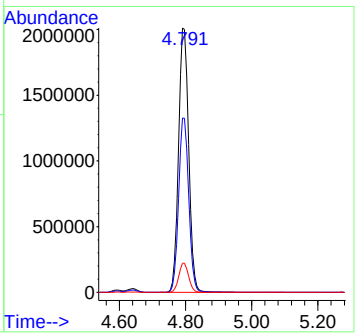


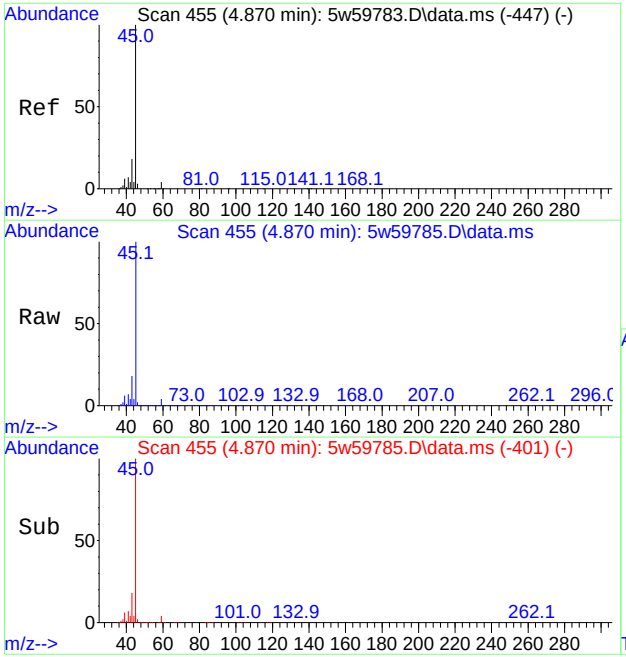


#21
TRICHLOROFLUOROMETHANE
Concen: 26.66 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:101 Resp: 4286330

Ion	Ratio	Lower	Upper
101	100		
103	65.8	35.0	95.0
105	10.9	0.0	40.7

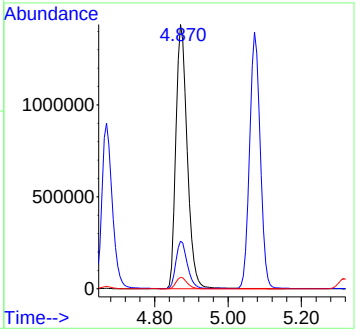


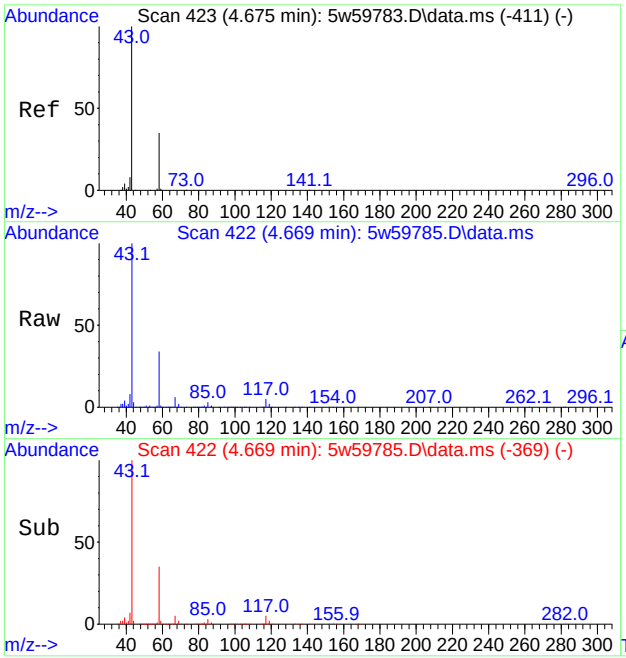


#22
ISOPROPYL ALCOHOL
Concen: 27.22 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 3091991

Ion	Ratio	Lower	Upper
45	100		
43	18.0	0.0	47.8
59	4.4	0.0	34.1

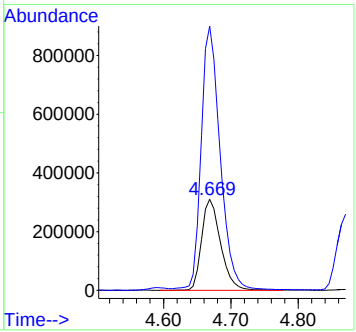


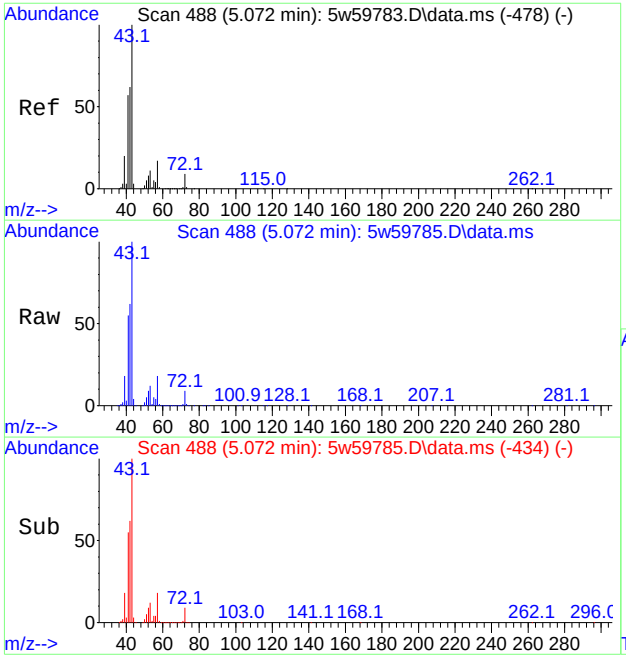


#23
ACETONE
Concen: 29.72 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 611815

Ion	Ratio	Lower	Upper
58	100		
43	288.5	252.3	312.3

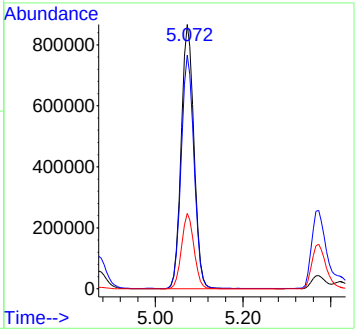


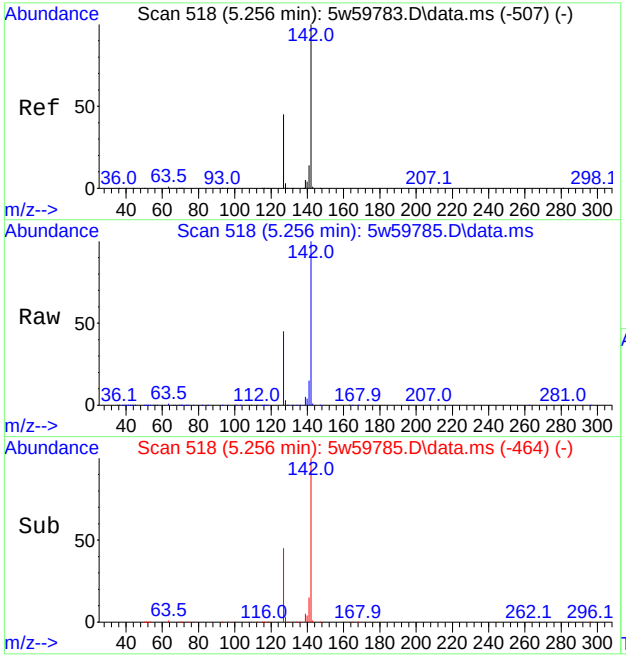


#24
PENTANE
Concen: 28.85 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 42 Resp: 1748442

Ion	Ratio	Lower	Upper
42	100		
41	89.0	62.3	122.3
57	28.1	0.0	57.7

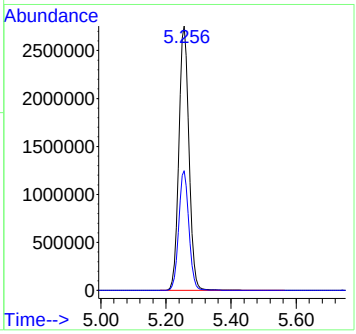


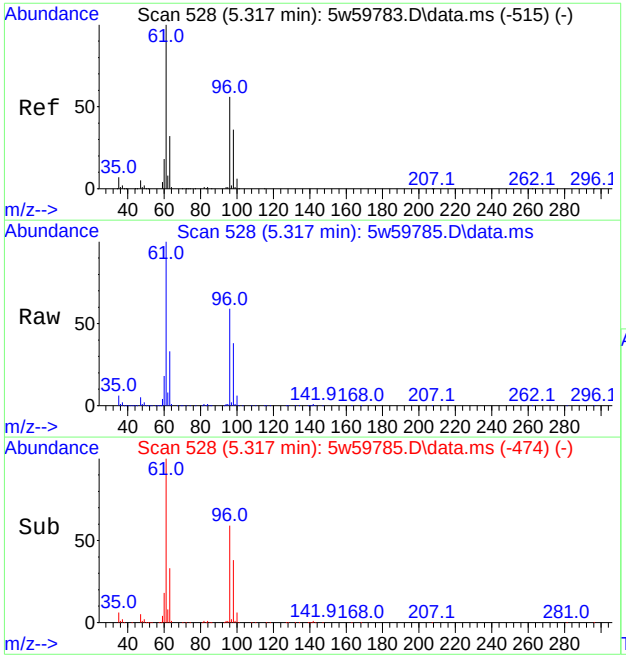


#25
IODOMETHANE
Concen: 39.54 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:142 Resp: 6000517

Ion	Ratio	Lower	Upper
142	100		
127	45.4	16.0	76.0

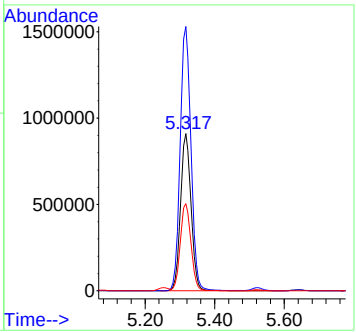


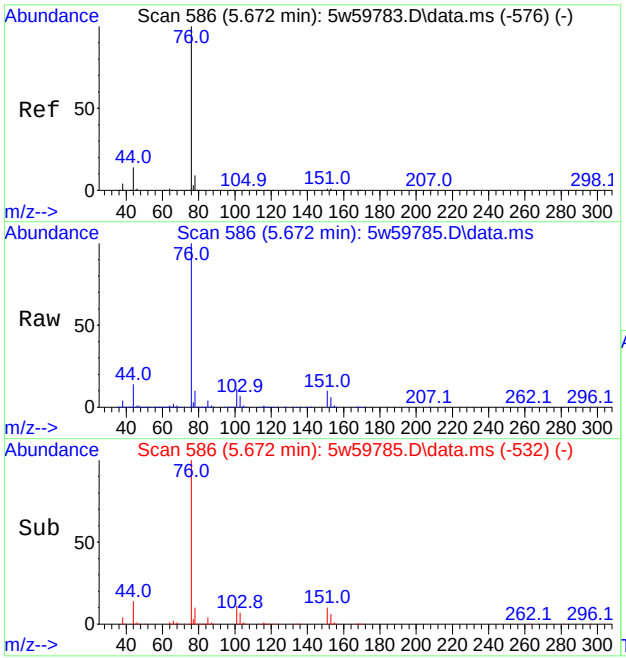


#26
1,1-DICHLOROETHYLENE
Concen: 35.49 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 1913922

Ion	Ratio	Lower	Upper
96	100		
61	172.5	148.5	208.5
63	56.3	27.4	87.4

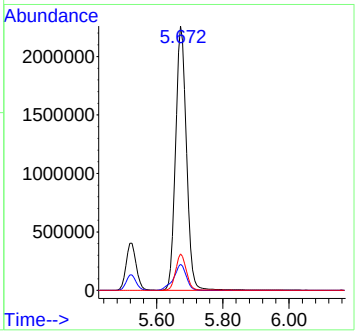


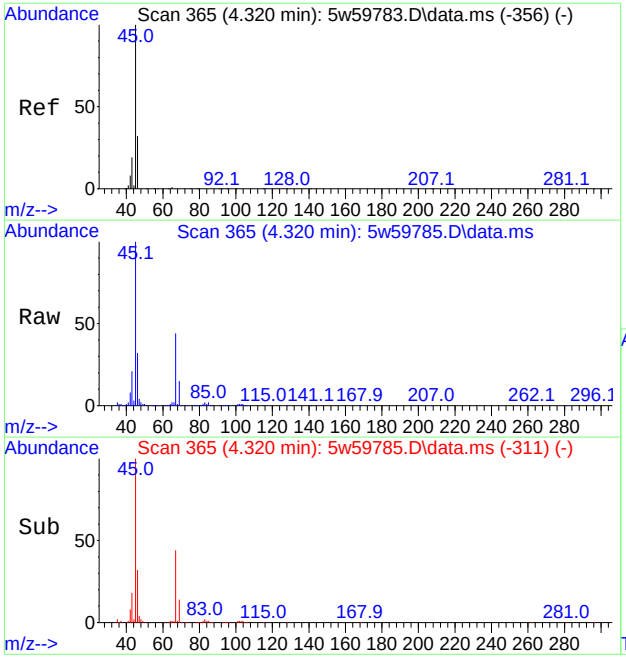


#27
CARBON DISULFIDE
Concen: 36.29 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 5159120

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.5	0.0	44.6

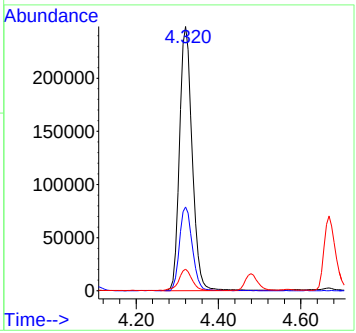


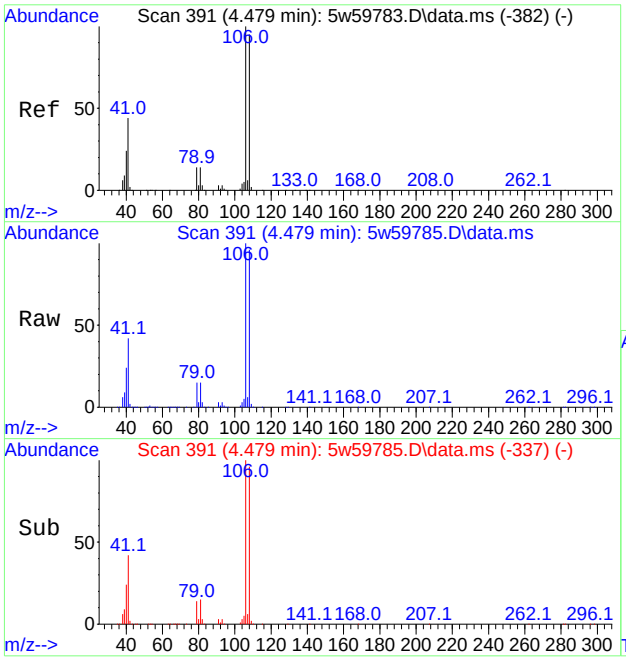


#28
ETHANOL
Concen: 23.67 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 528233

Ion	Ratio	Lower	Upper
45	100		
46	32.3	2.0	62.0
42	8.3	0.0	38.5

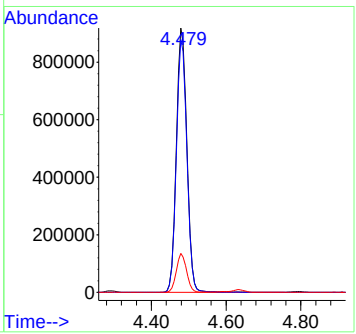


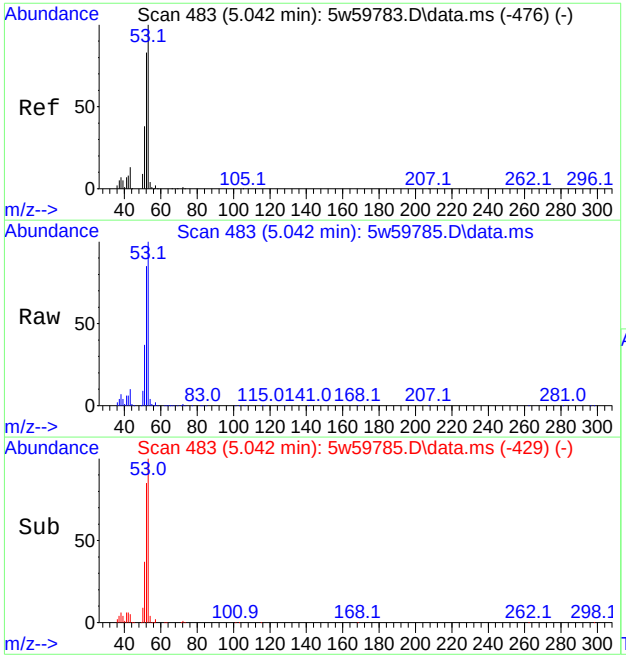


#29
BROMOETHENE
Concen: 37.63 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 1797717

Ion	Ratio	Lower	Upper
106	100		
108	95.5	65.6	125.6
81	14.2	0.0	43.9

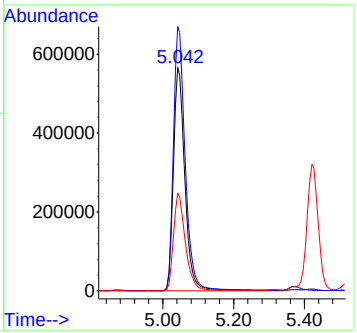


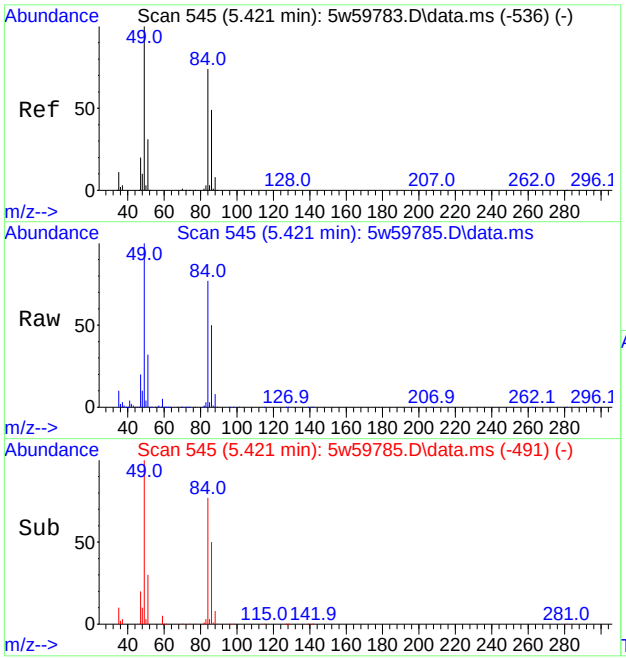


#30
ACRYLONITRILE
Concen: 36.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 1271597

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.4	32.3	60.1

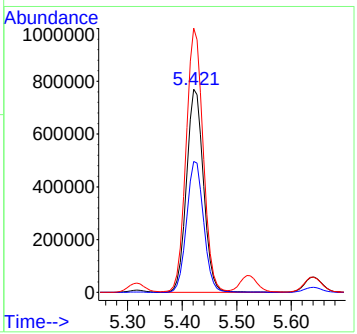


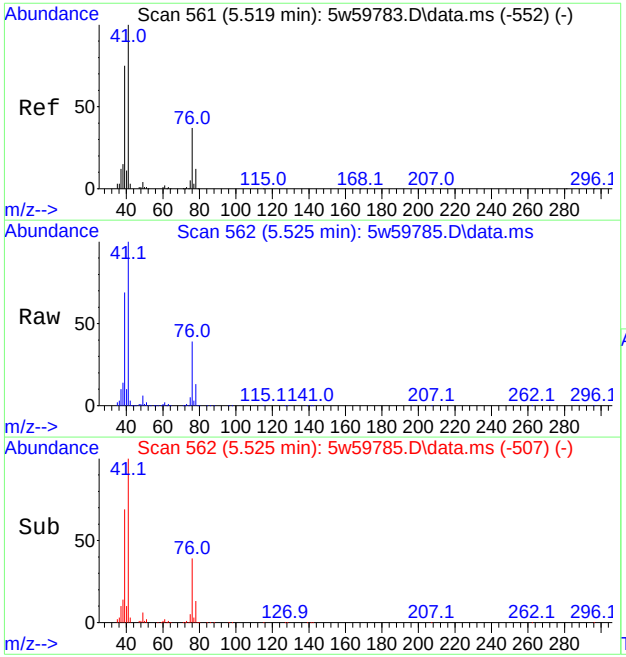


#31
METHYLENE CHLORIDE
Concen: 34.35 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 1660696

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	130.9	105.3	165.3

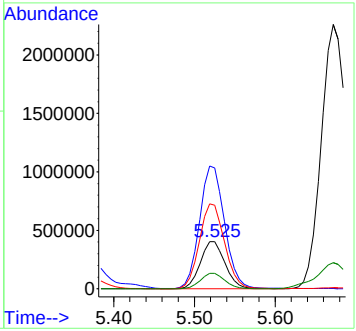


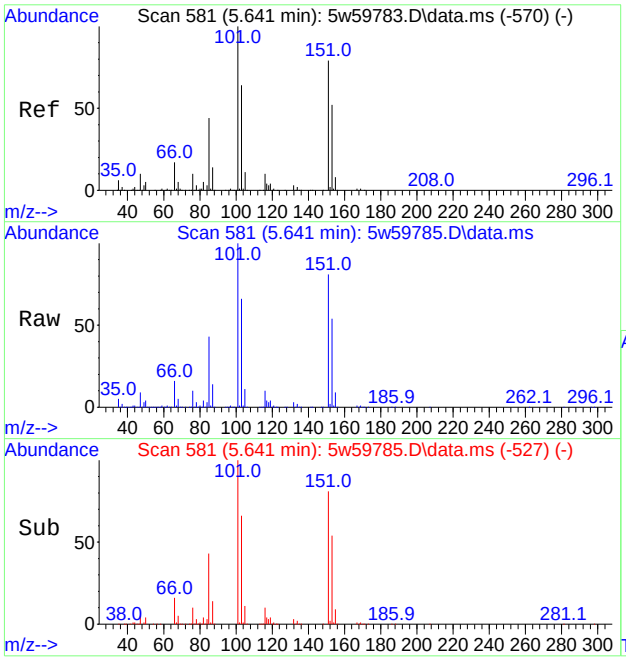


#32
3-CHLOROPROPENE
Concen: 38.85 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 861126

Ion	Ratio	Lower	Upper
76	100		
41	263.0	240.8	300.8
39	183.7	173.6	233.6
78	32.6	2.8	62.8

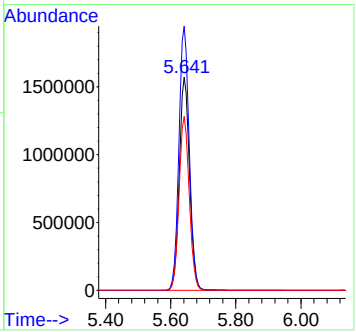


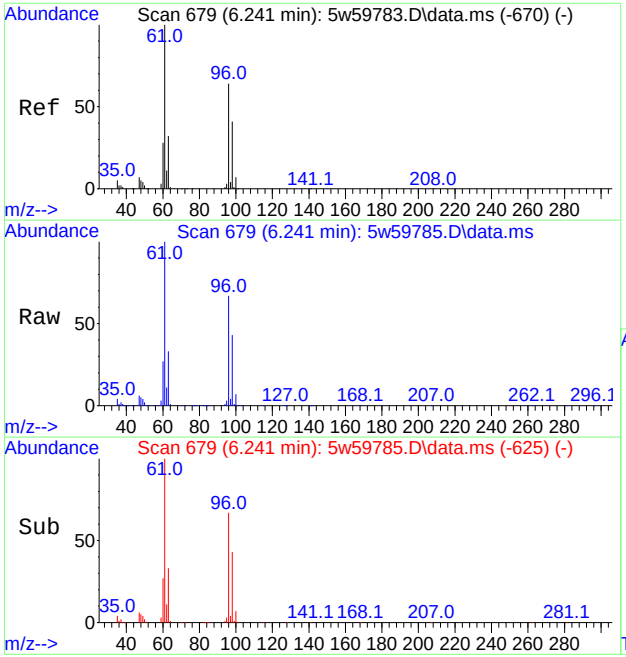


#33
FREON 113
Concen: 36.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:151 Resp: 3469148

Ion	Ratio	Lower	Upper
151	100		
101	125.0	97.5	157.5
103	81.5	52.5	112.5

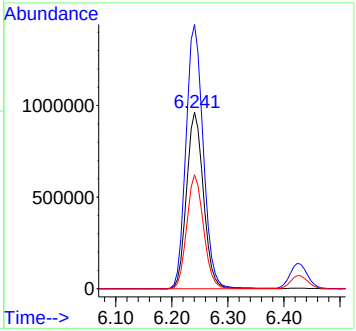


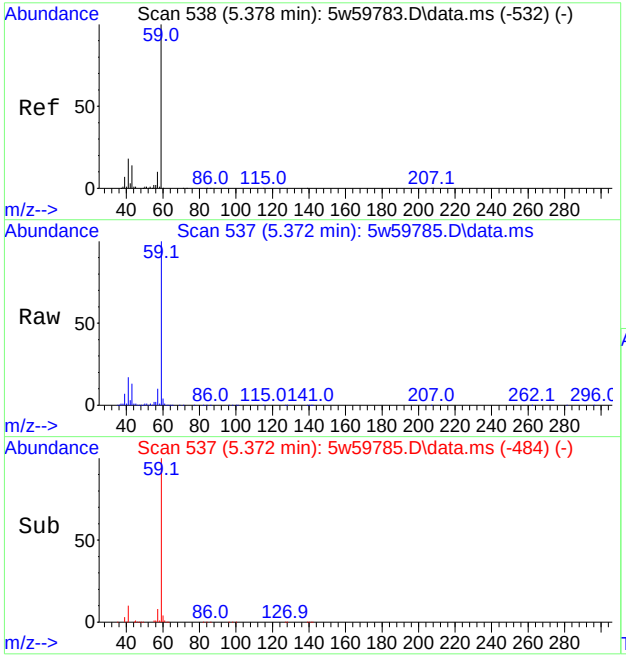


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 36.73 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2022318

Ion	Ratio	Lower	Upper
96	100		
61	152.5	126.4	186.4
98	64.2	34.1	94.1

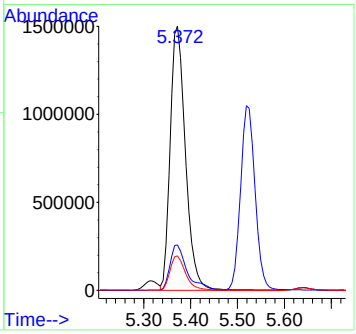


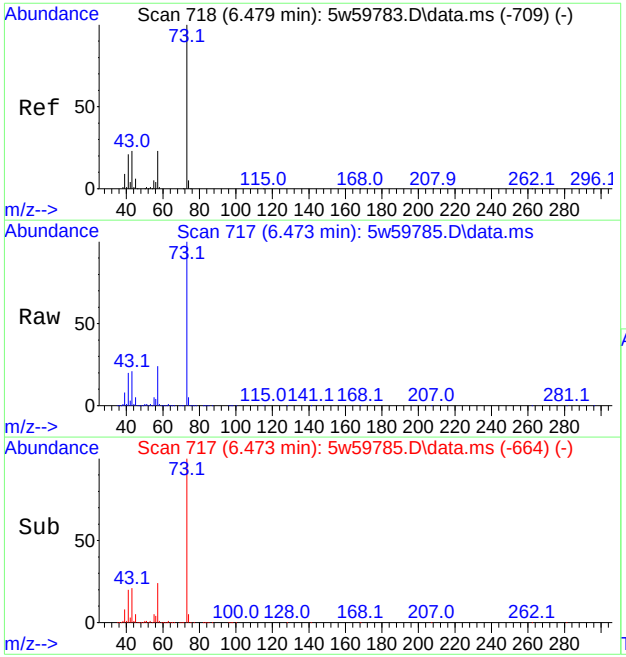


#35
TERTIARY BUTYL ALCOHOL
Concen: 29.74 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 3394797

Ion	Ratio	Lower	Upper
59	100		
41	19.2	0.0	49.3
43	13.3	0.0	44.1

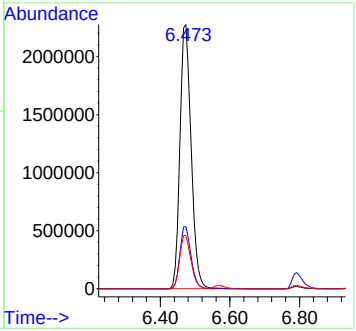


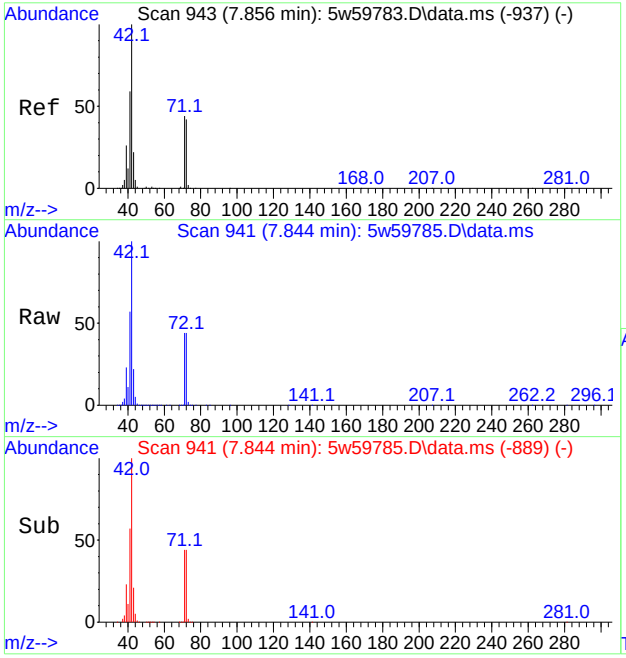


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.67 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 73 Resp: 5102873

Ion	Ratio	Lower	Upper
73	100		
57	23.4	0.0	53.1
41	20.3	0.0	50.6

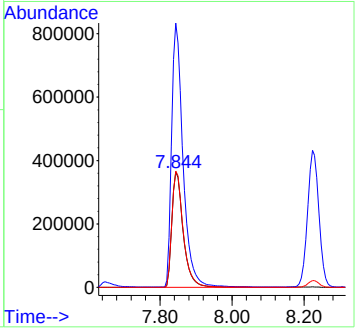


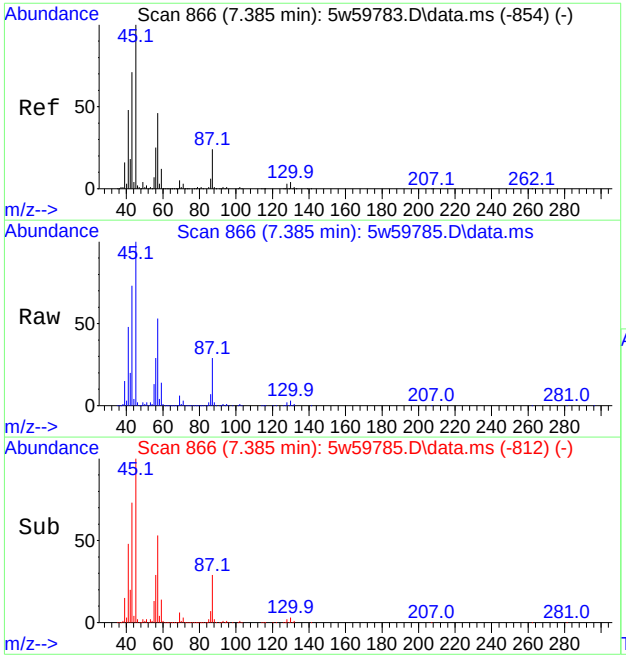


#37
TETRAHYDROFURAN
Concen: 44.15 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 801341

Ion	Ratio	Lower	Upper
72	100		
42	228.6	202.4	262.4
71	101.0	71.1	131.1

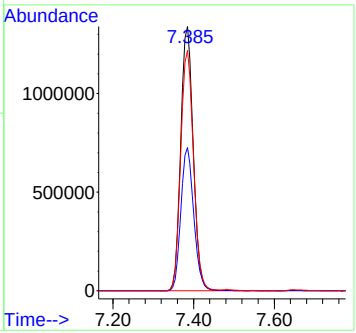


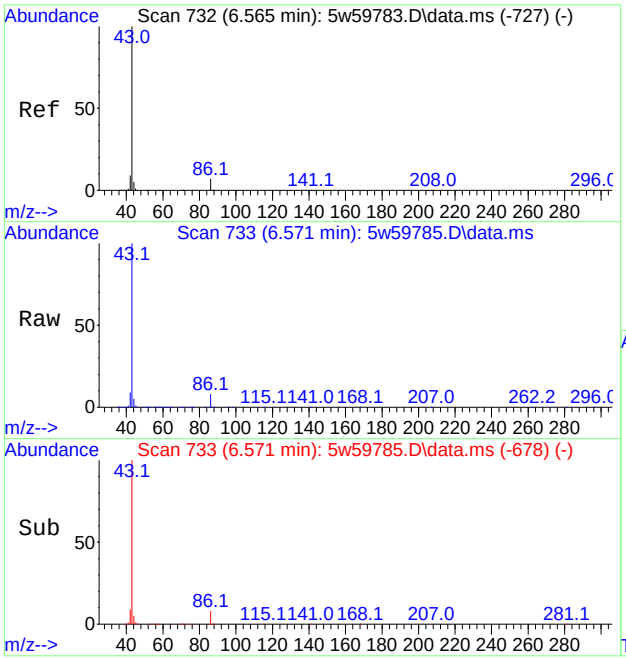


#38
HEXANE
Concen: 37.98 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 2879156

Ion	Ratio	Lower	Upper
57	100		
56	56.3	25.9	85.9
41	93.3	74.7	134.7

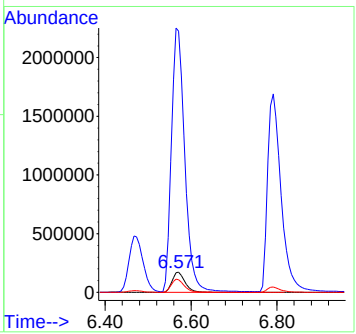


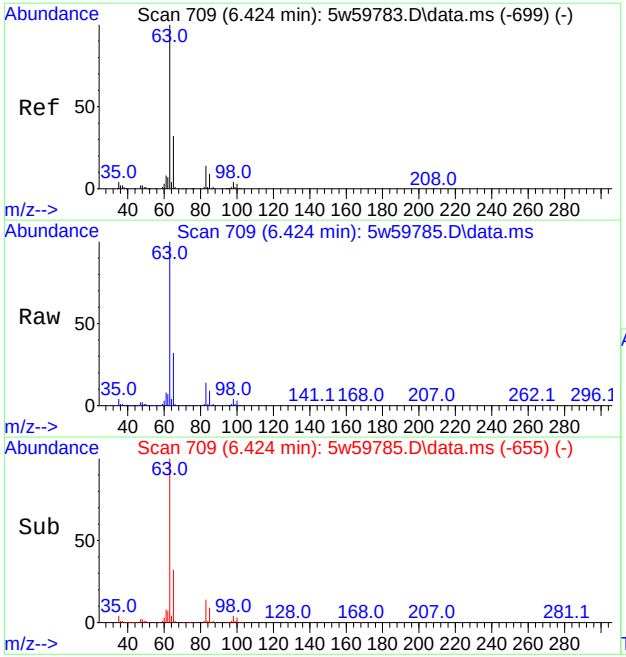


#39
VINYL ACETATE
Concen: 40.72 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 86 Resp: 363965

Ion	Ratio	Lower	Upper
86	100		
43	1327.9	1379.7	1439.7#
44	64.4	36.9	96.9

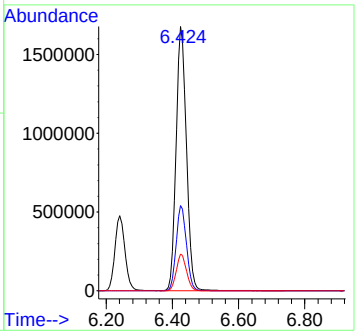


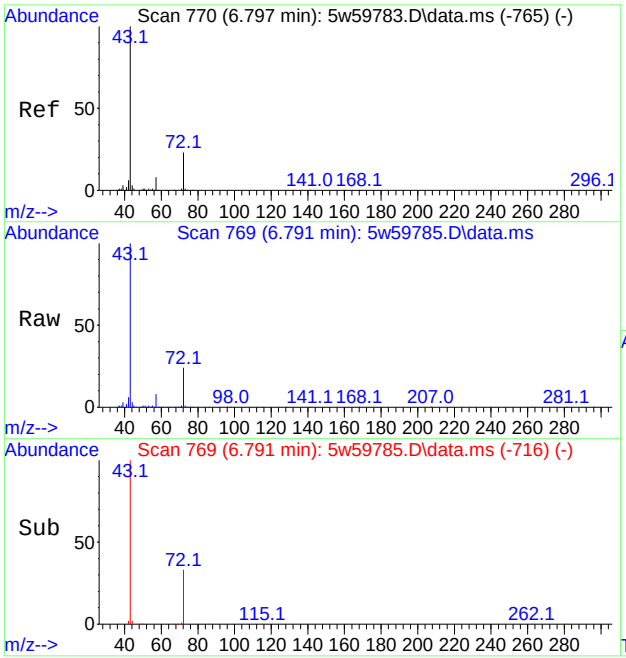


#40
1,1-DICHLOROETHANE
Concen: 36.44 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 3644940

Ion	Ratio	Lower	Upper
63	100		
65	32.2	1.7	61.7
83	13.7	0.0	43.5

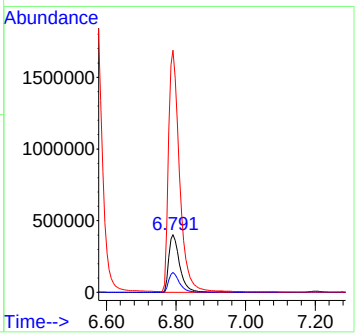


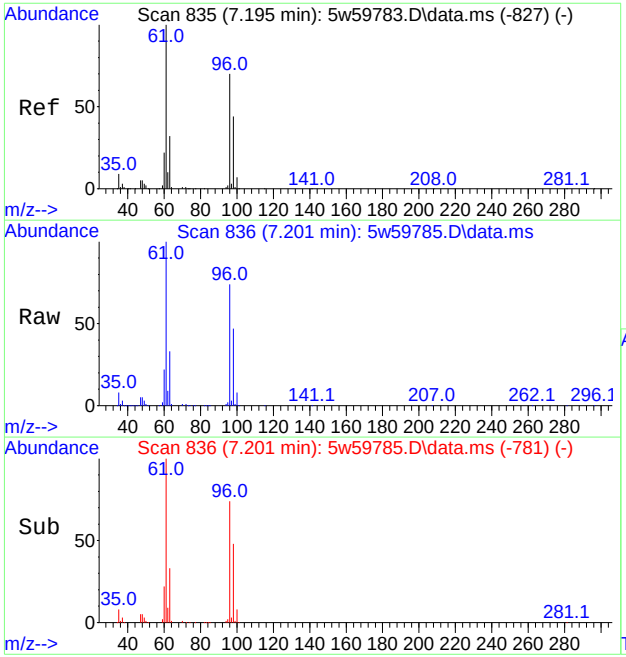


#41
METHYL ETHYL KETONE
Concen: 46.66 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 879599

Ion	Ratio	Lower	Upper
72	100		
57	34.6	4.8	64.8
43	418.8	415.9	475.9

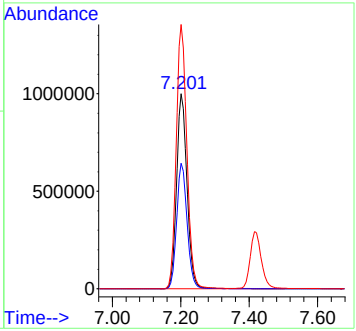


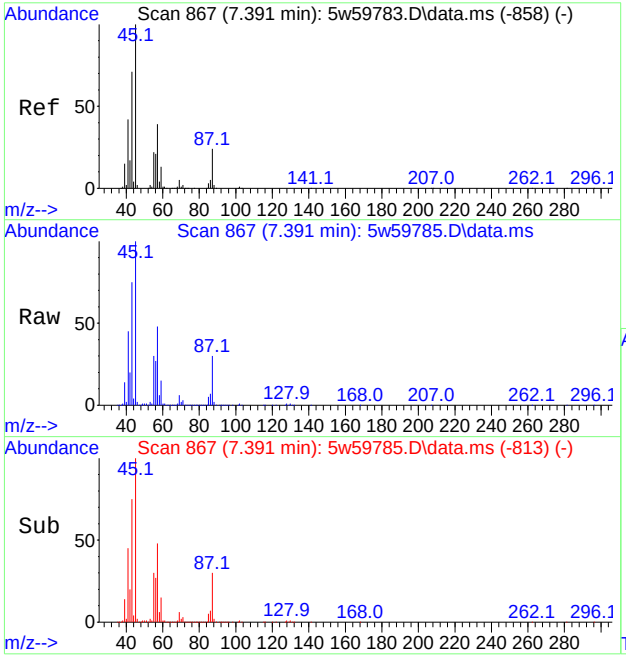


#42
cis-1,2-DICHLOROETHYLENE
Concen: 37.52 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2133694

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	137.7	111.5	171.5

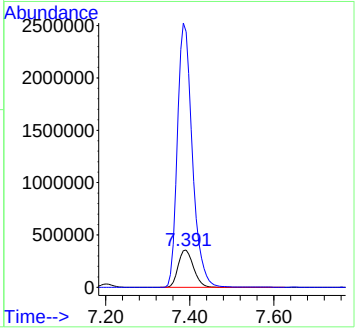


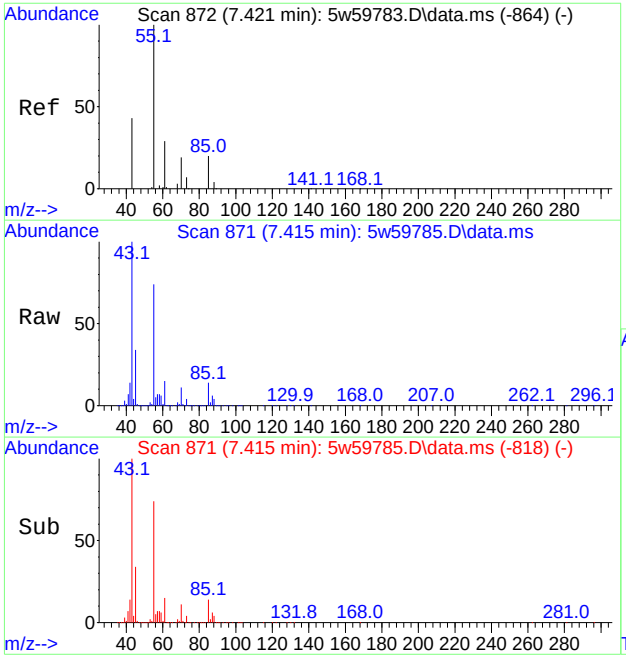


#43
DIISOPROPYL ETHER
Concen: 43.95 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 905463

Ion	Ratio	Lower	Upper
59	100		
45	688.0	720.9	780.9#

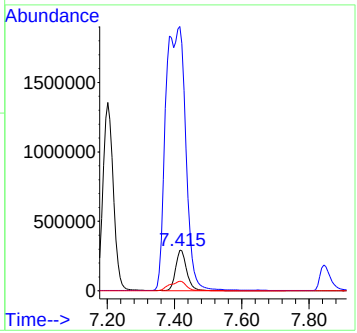


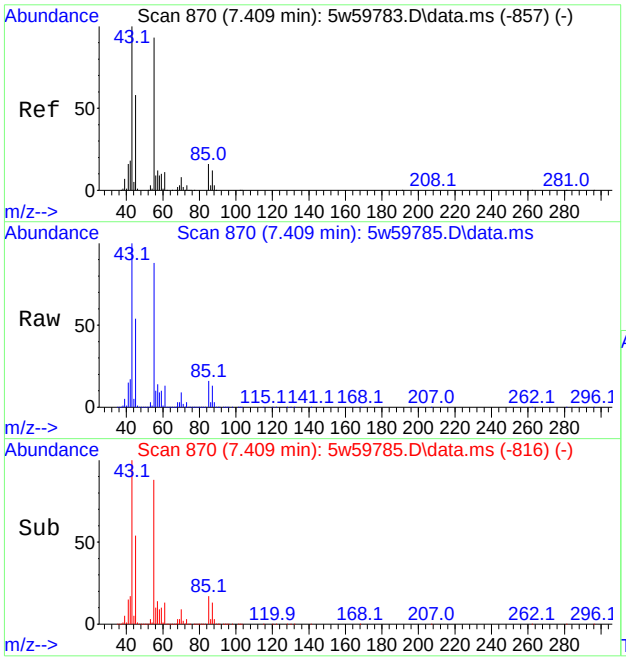


#44
ETHYL ACETATE
Concen: 43.14 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 61 Resp: 671399

Ion	Ratio	Lower	Upper
61	100		
43	592.5	560.5	620.5
88	35.9	4.5	64.5

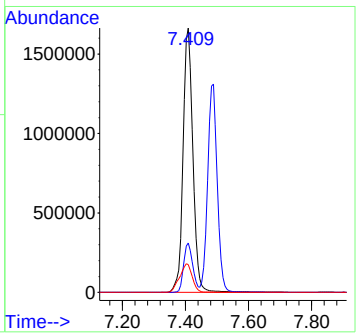


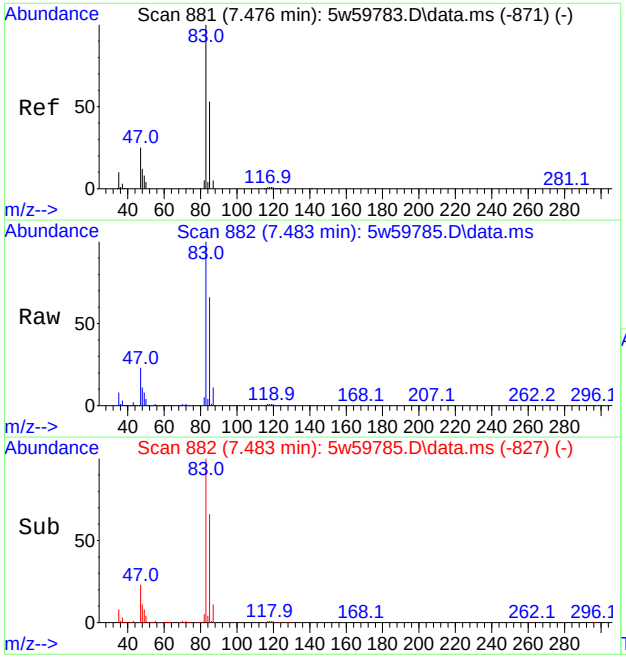


#45
METHYL ACRYLATE
Concen: 40.28 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 3595052

Ion	Ratio	Lower	Upper
55	100		
85	17.5	10.9	20.3
58	14.0	9.4	17.6

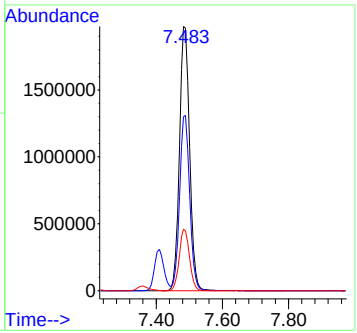


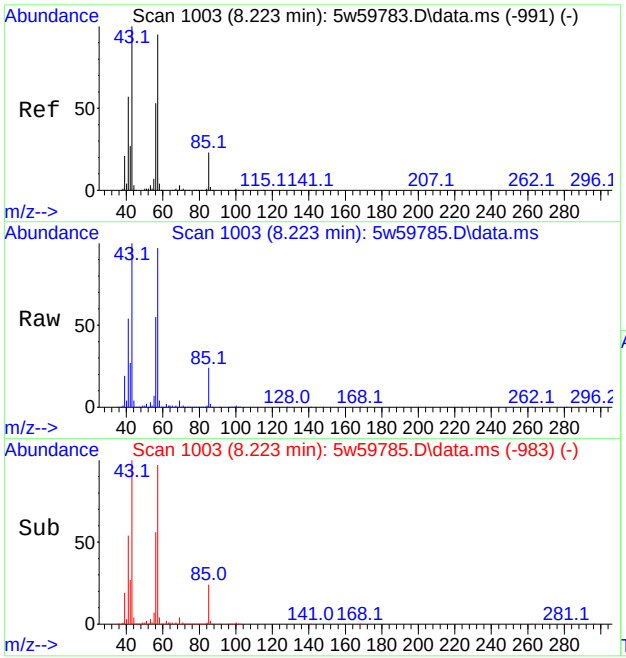


#46
CHLOROFORM
Concen: 36.42 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4216969

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	23.6	0.0	55.2

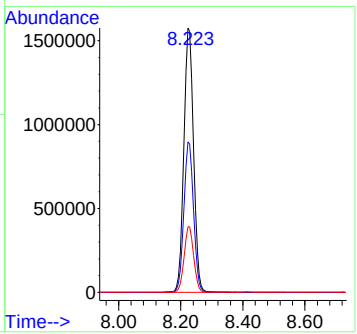


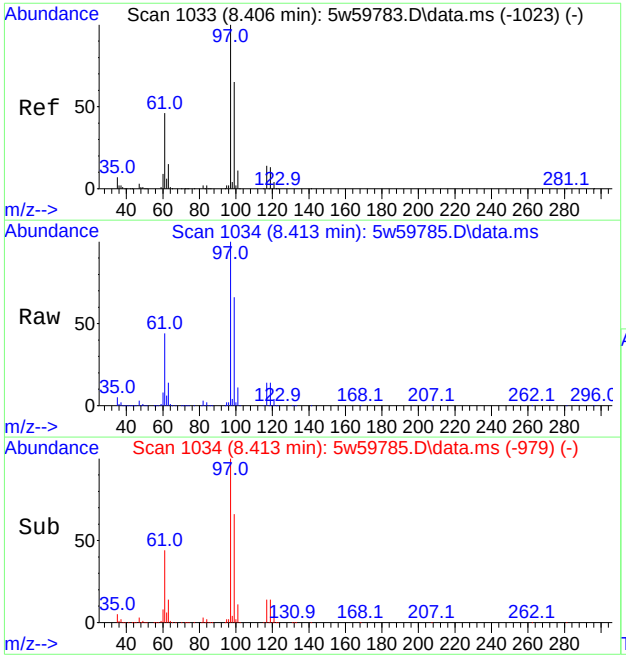


#47
2,4-DIMETHYLPENTANE
Concen: 38.76 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 3428957

Ion	Ratio	Lower	Upper
57	100		
56	57.1	26.5	86.5
85	24.6	0.0	53.8

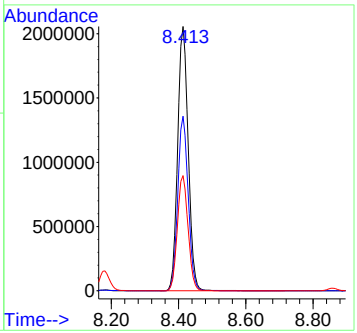


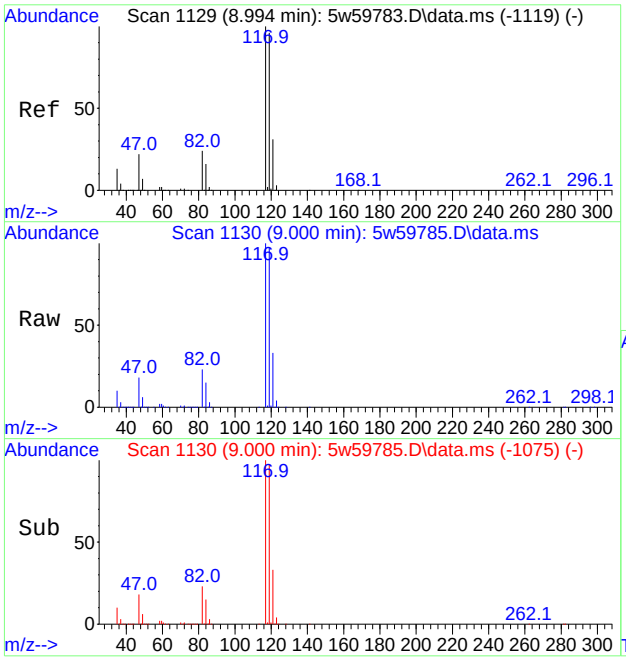


#48
1,1,1-TRICHLOROETHANE
Concen: 35.48 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 97 Resp: 4473116

Ion	Ratio	Lower	Upper
97	100		
99	65.5	34.8	94.8
61	44.3	15.8	75.8

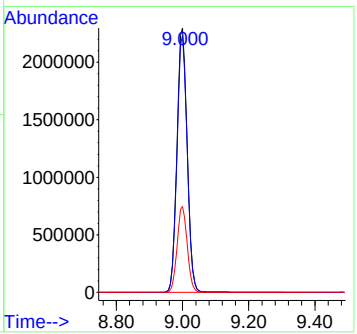


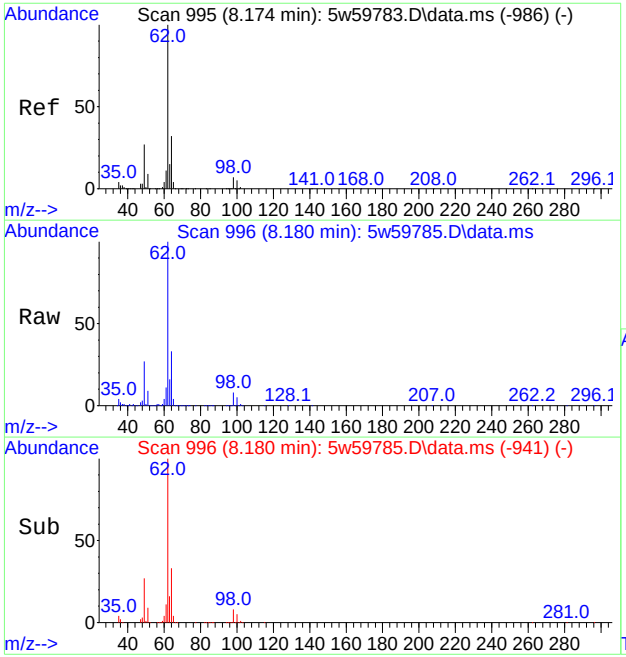


#49
CARBON TETRACHLORIDE
Concen: 35.62 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4942966

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.9	126.9
121	32.2	1.3	61.3

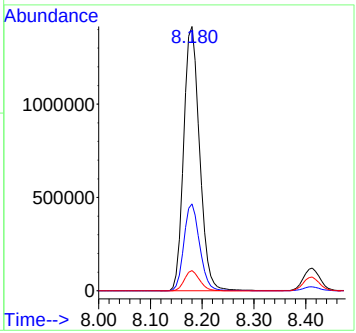


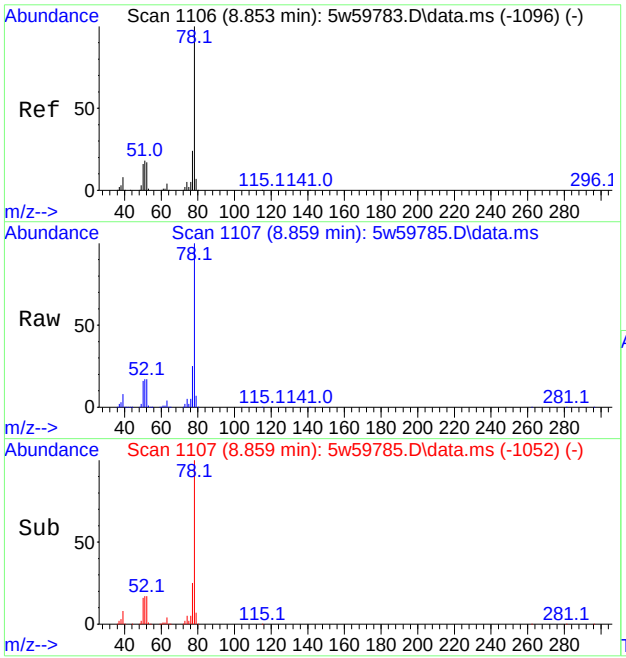


#50
1,2-DICHLOROETHANE
Concen: 37.08 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 3028960

Ion	Ratio	Lower	Upper
62	100		
64	32.6	2.3	62.3
98	7.4	0.0	36.9

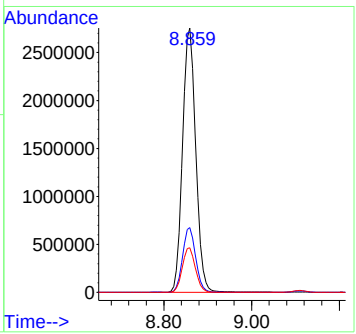


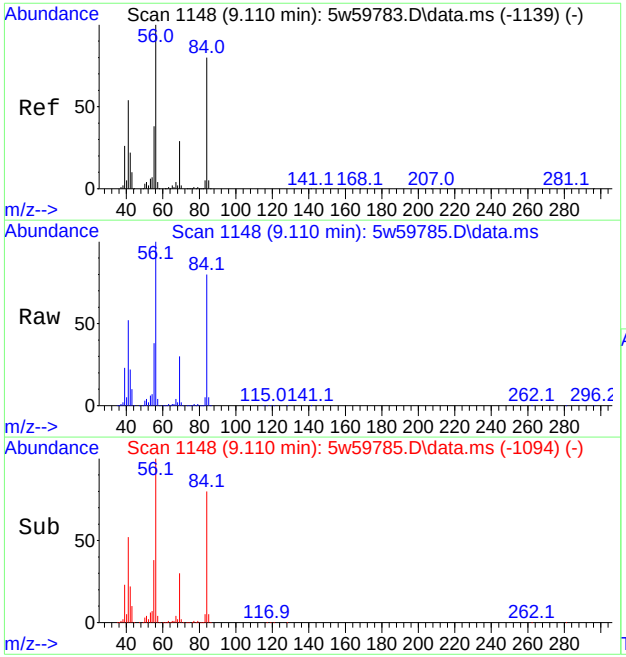


#52
BENZENE
Concen: 44.75 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 78 Resp: 5773385

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	53.8
52	16.9	0.0	46.9

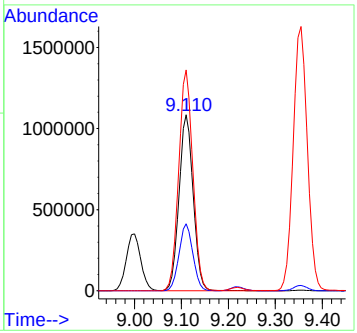


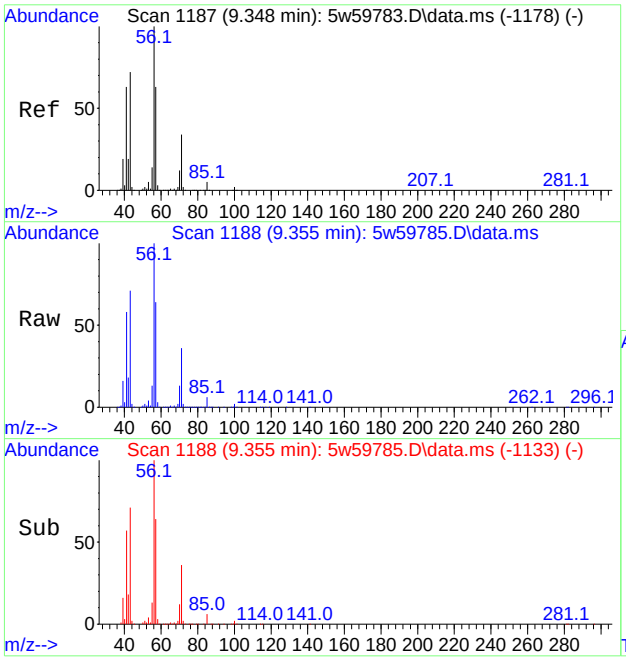


#53
CYCLOHEXANE
Concen: 44.64 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 2282258

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	125.1	98.2	158.2

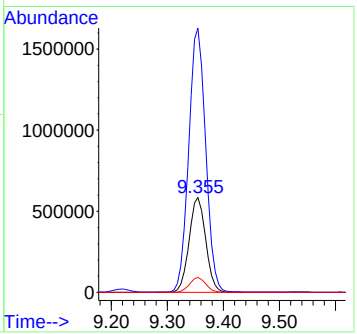


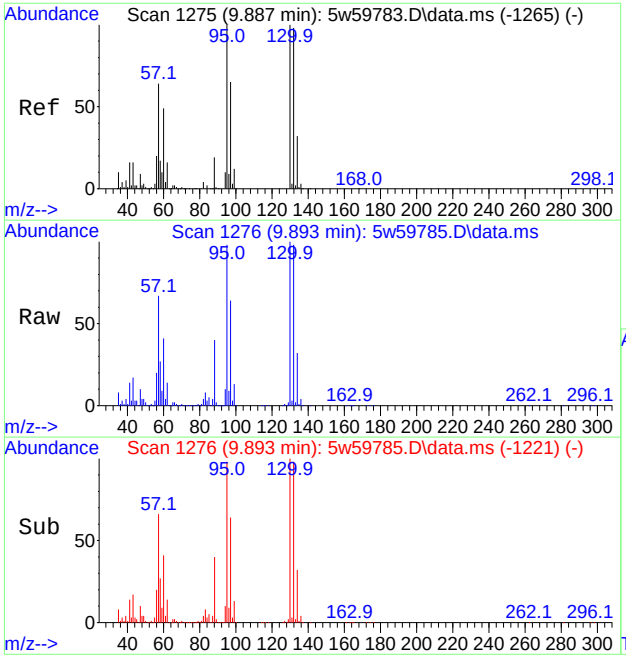


#54
2,3-DIMETHYLPENTANE
Concen: 46.80 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 71 Resp: 1205121

Ion	Ratio	Lower	Upper
71	100		
56	284.5	264.6	324.6
85	15.5	0.0	45.3

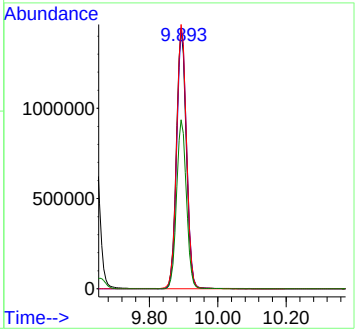


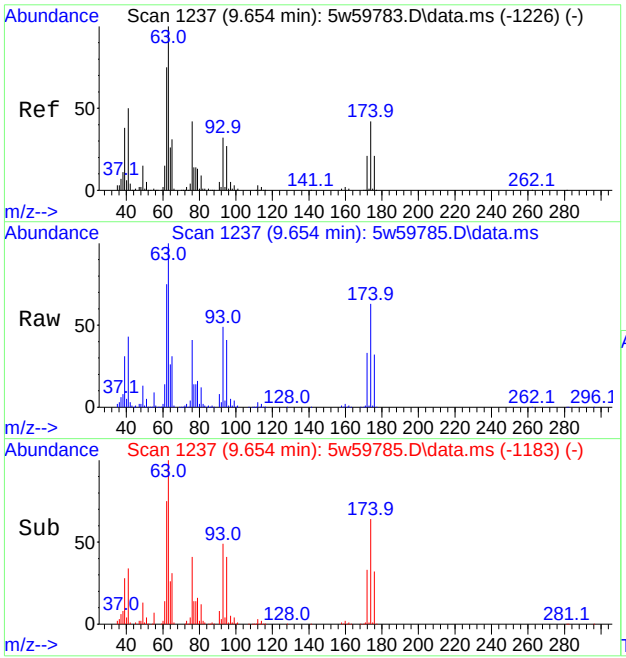


#55
TRICHLOROETHYLENE
Concen: 41.87 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 95 Resp: 2886125

Ion	Ratio	Lower	Upper
95	100		
132	99.9	69.0	129.0
130	102.3	70.6	130.6
97	65.1	34.6	94.6

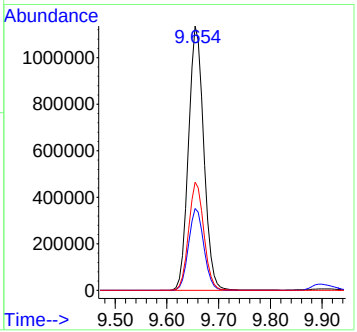


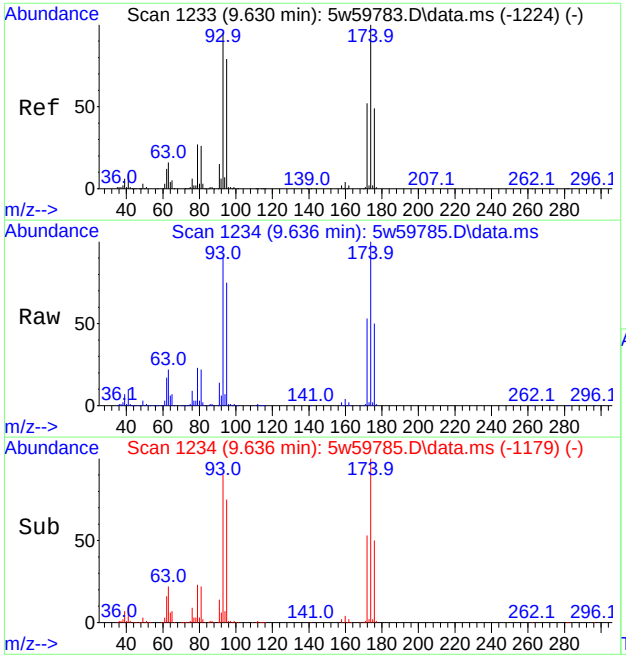


#56
1,2-DICHLOROPROPANE
Concen: 42.47 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 2329113

Ion	Ratio	Lower	Upper
63	100		
65	31.1	0.5	60.5
76	40.9	11.5	71.5

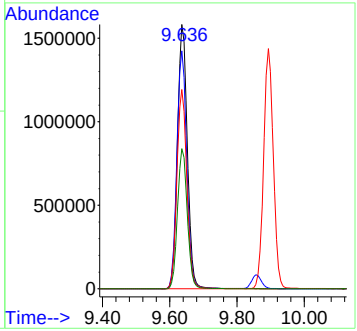


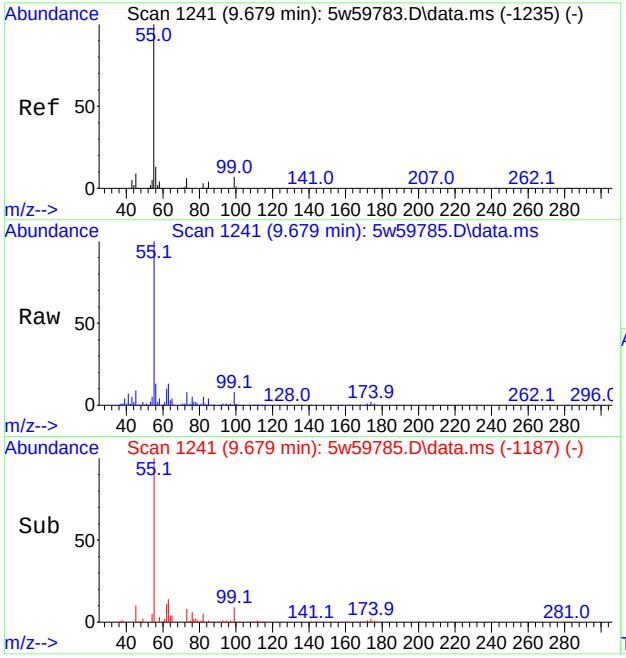


#57
DIBROMOMETHANE
Concen: 42.48 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:174 Resp: 3208165

Ion	Ratio	Lower	Upper
174	100		
93	90.6	65.0	120.6
95	76.0	54.5	101.1
172	52.7	36.3	67.5

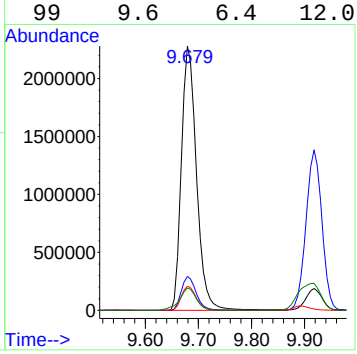


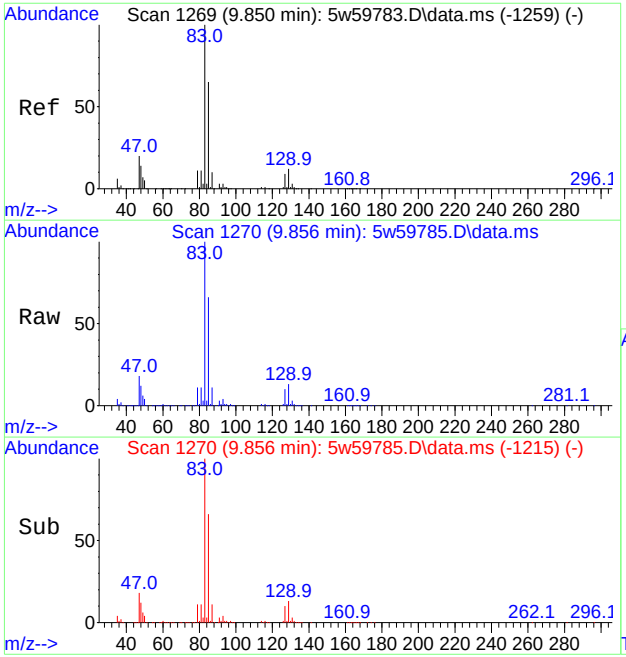


#58
ETHYL ACRYLATE
Concen: 46.25 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 4517787

Ion	Ratio	Lower	Upper
55	100		
56	12.6	8.6	16.0
45	9.1	6.6	12.2
99	9.6	6.4	12.0

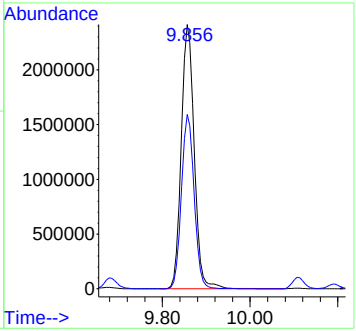


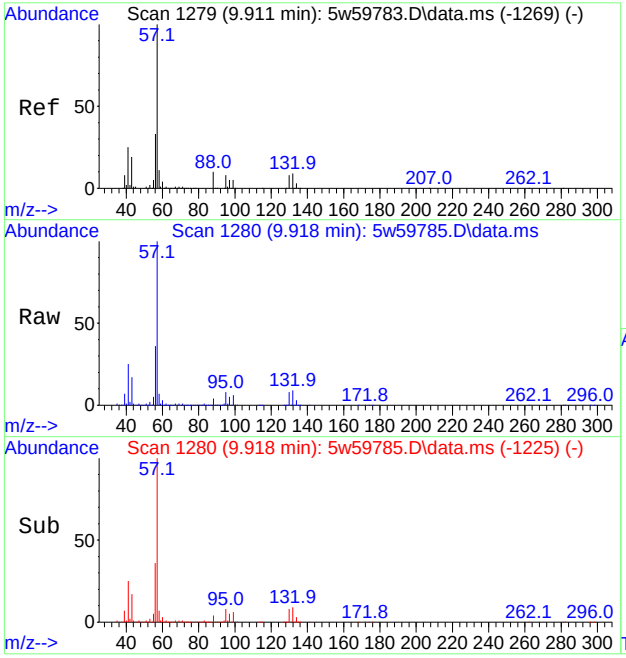


#59
BROMODICHLOROMETHANE
Concen: 40.63 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4951368

Ion	Ratio	Lower	Upper
83	100		
85	64.6	33.4	93.4

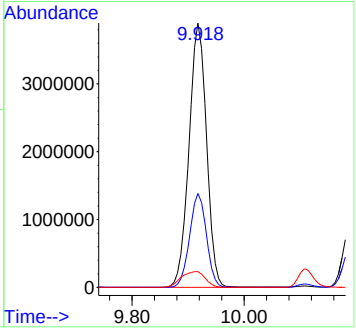


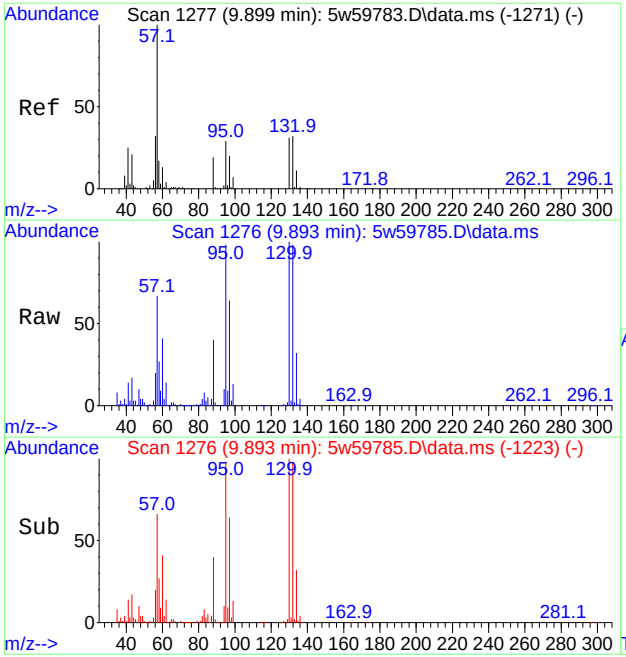


#60
2,2,4-TRIMETHYLPENTANE
Concen: 38.93 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 8459039

Ion	Ratio	Lower	Upper
57	100		
56	34.0	2.5	62.5
99	8.2	0.0	37.3

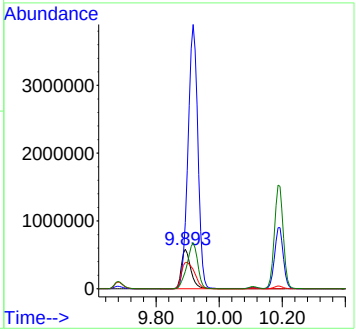


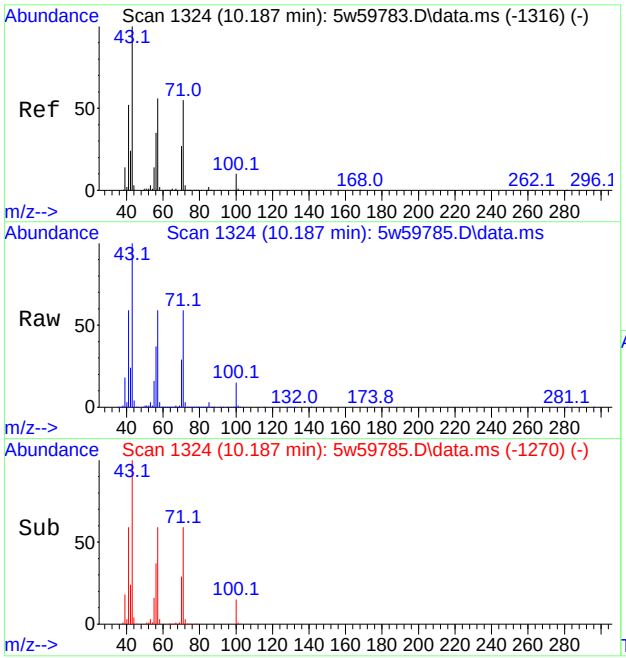


#61
1,4-DIOXANE
Concen: 45.35 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 88 Resp: 1215269

Ion	Ratio	Lower	Upper
88	100		
57	167.4	494.2	554.2#
58	67.1	58.9	118.9
43	43.9	78.3	138.3#

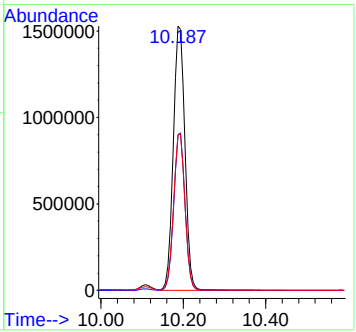


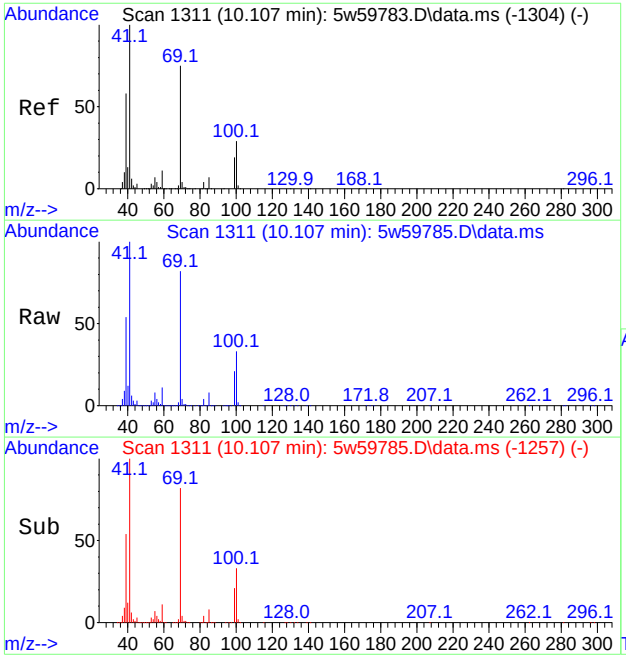


#62
HEPTANE
Concen: 37.77 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 2988992

Ion	Ratio	Lower	Upper
43	100		
71	57.8	24.5	84.5
57	58.3	26.2	86.2

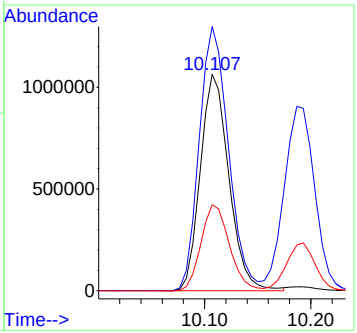


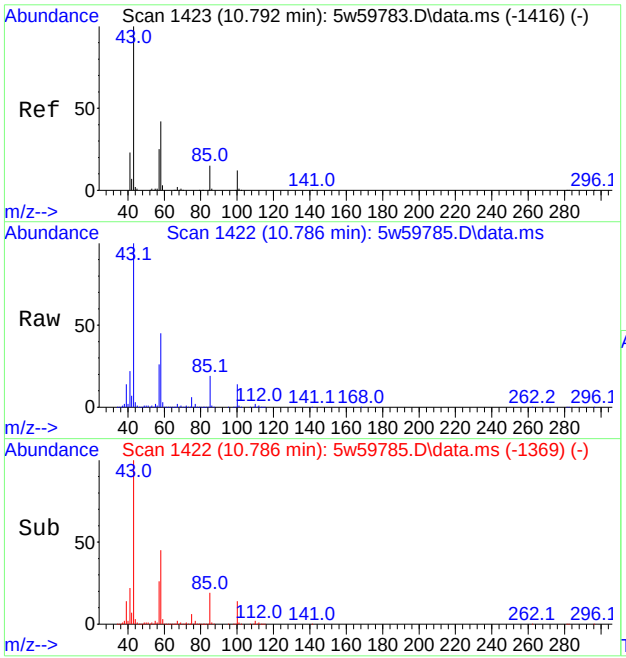


#63
METHYL METHACRYLATE
Concen: 49.92 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 1989625

Ion	Ratio	Lower	Upper
69	100		
41	124.2	95.3	155.3
100	39.6	6.3	66.3

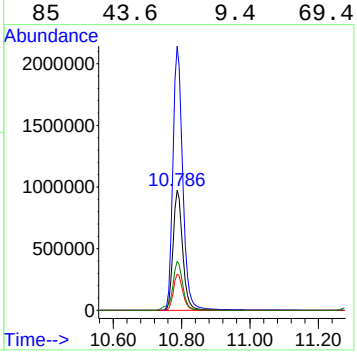


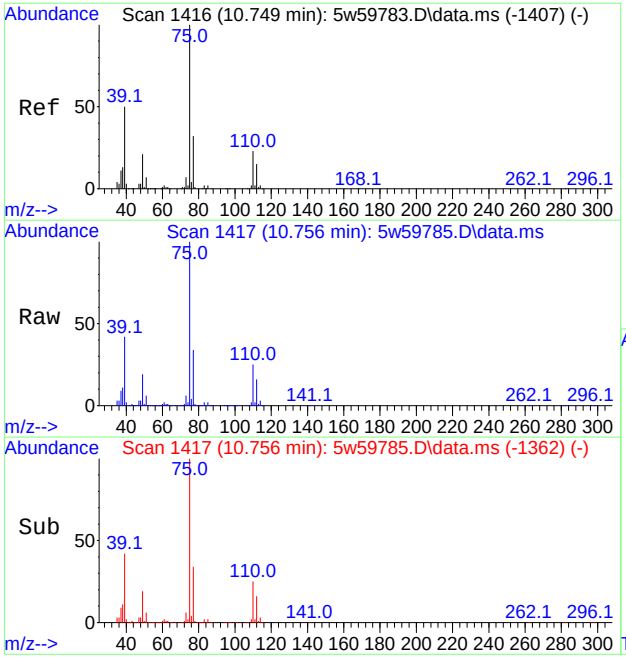


#64
METHYL ISOBUTYL KETONE
Concen: 47.23 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 1921879

Ion	Ratio	Lower	Upper
58	100		
43	225.1	209.2	269.2
100	30.1	0.0	58.8
85	43.6	9.4	69.4

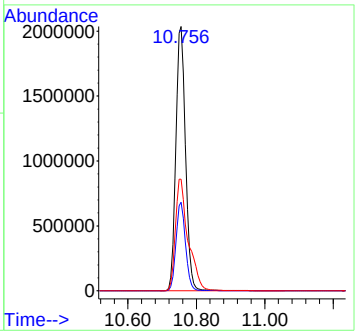


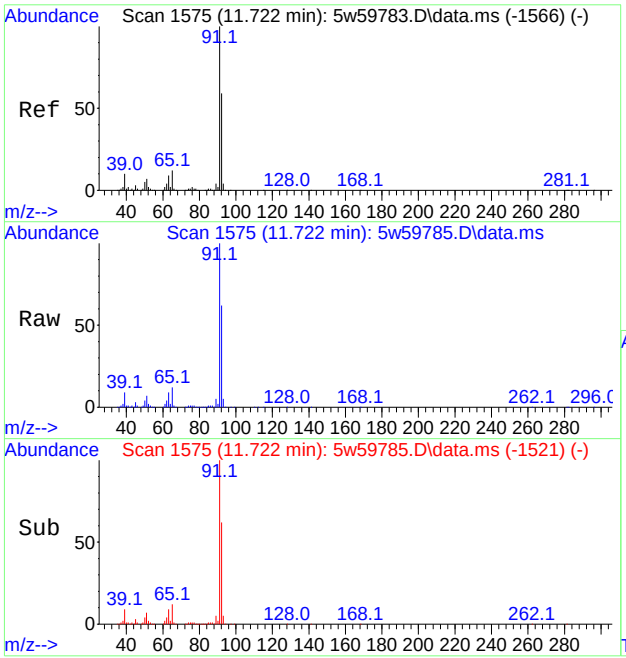


#65
cis-1,3-DICHLOROPROPENE
Concen: 47.39 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4023307

Ion	Ratio	Lower	Upper
75	100		
77	33.0	2.2	62.2
39	56.0	34.3	94.3

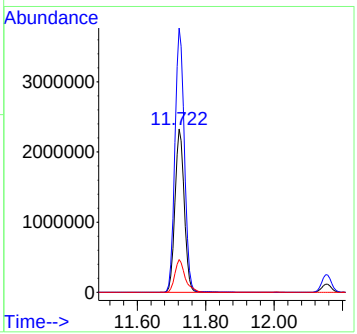


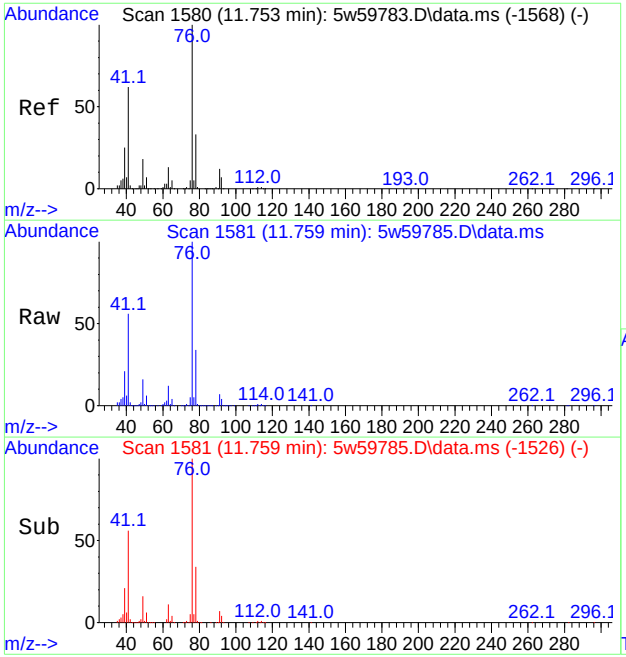


#66
TOLUENE
Concen: 47.83 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 92 Resp: 4414753

Ion	Ratio	Lower	Upper
92	100		
91	164.9	140.1	200.1
65	22.5	0.0	53.1

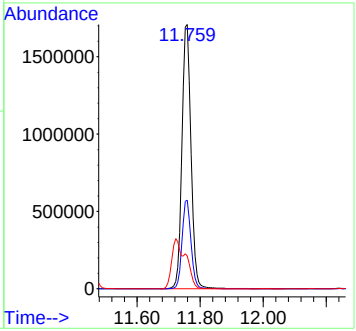


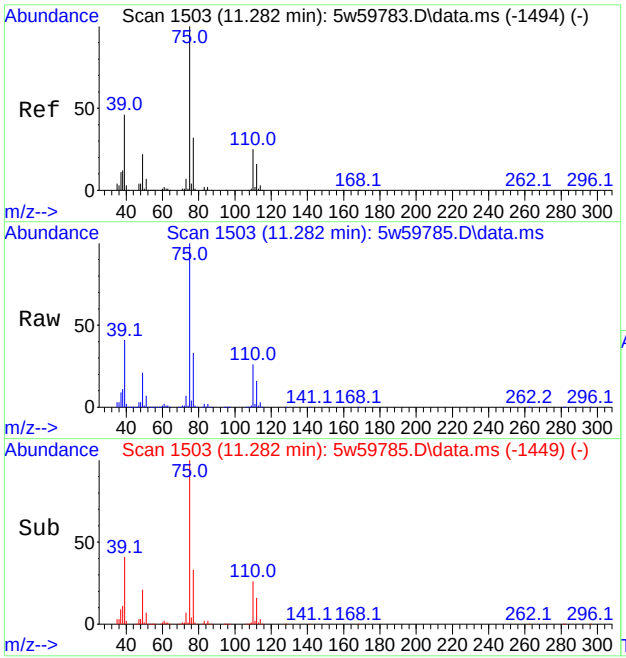


#67
1,3-DICHLOROPROPANE
Concen: 44.02 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 3397591

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	11.1	7.1	13.1

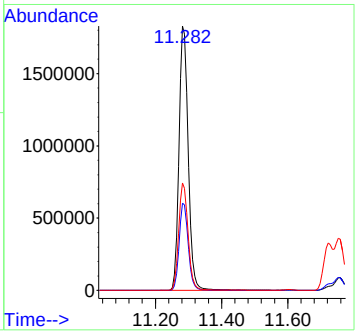


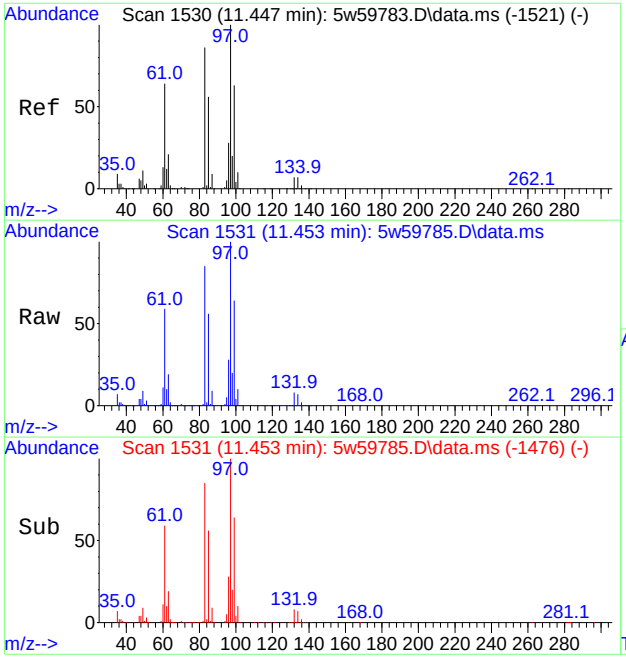


#68
trans-1,3-DICHLOROPROPENE
Concen: 45.59 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 3536223

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	41.6	16.1	76.1

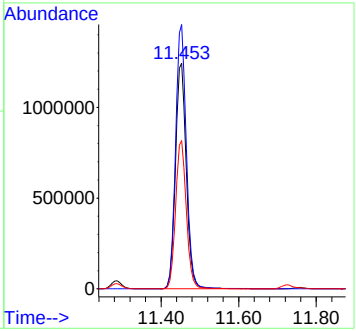


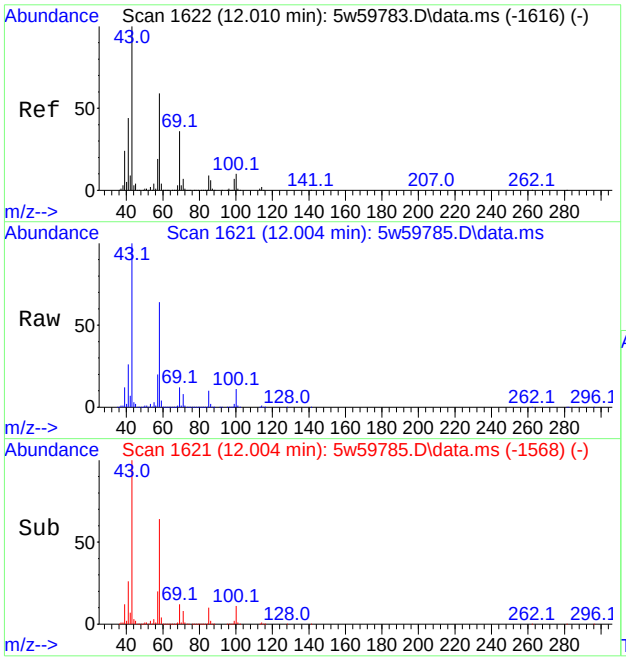


#69
1,1,2-TRICHLOROETHANE
Concen: 47.73 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 2422259

Ion	Ratio	Lower	Upper
83	100		
97	116.5	86.3	146.3
85	65.3	35.3	95.3

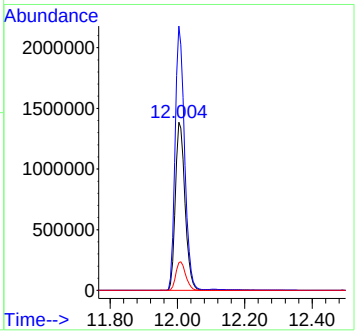


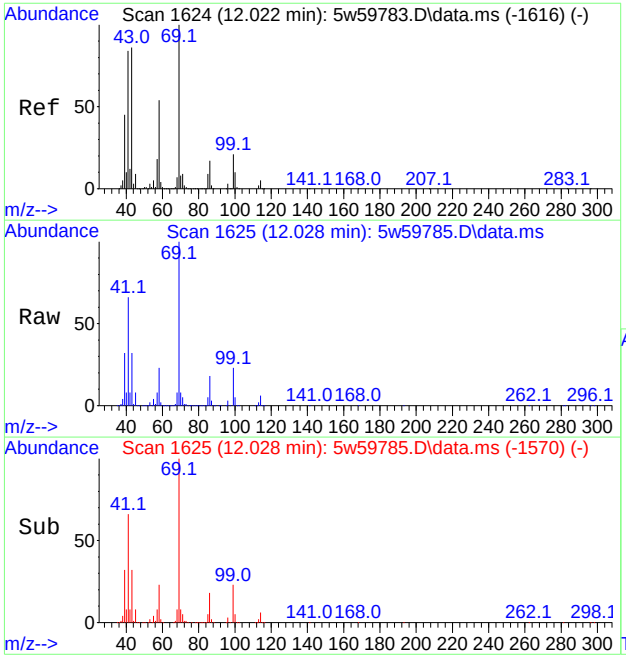


#71
2-HEXANONE
Concen: 43.59 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 2753205

Ion	Ratio	Lower	Upper
58	100		
43	154.2	137.2	197.2
100	17.6	0.0	46.9

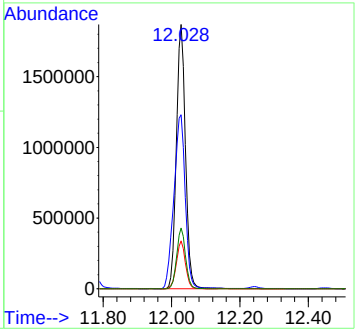


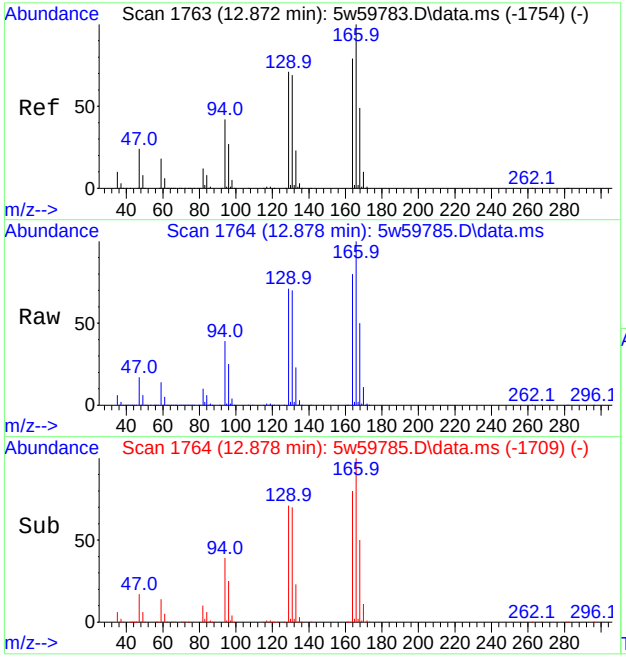


#72
ETHYL METHACRYLATE
Concen: 43.20 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 3484828

Ion	Ratio	Lower	Upper
69	100		
41	81.9	64.0	119.0
86	18.0	12.0	22.4
99	22.5	15.0	27.8

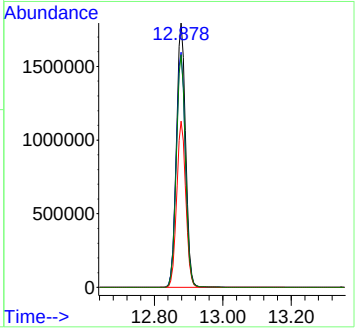


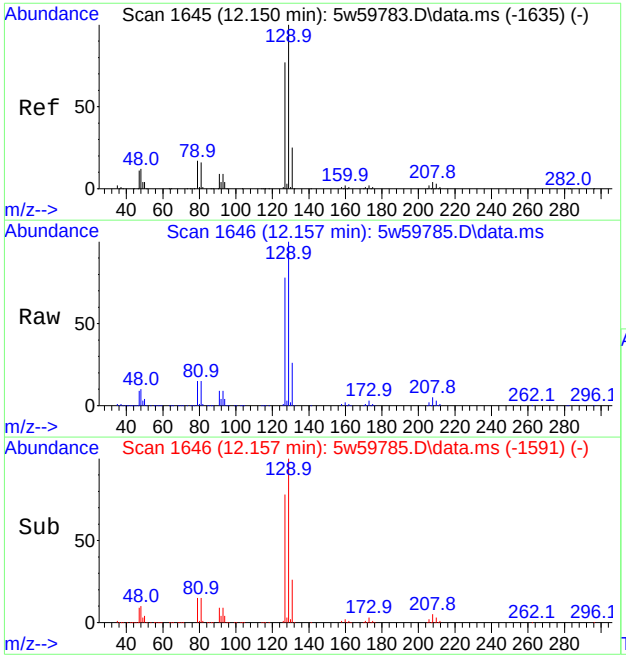


#73
TETRACHLOROETHYLENE
Concen: 35.84 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:164 Resp: 3370251

Ion	Ratio	Lower	Upper
164	100		
129	89.6	59.7	119.7
168	62.4	32.2	92.2
131	87.9	57.8	117.8

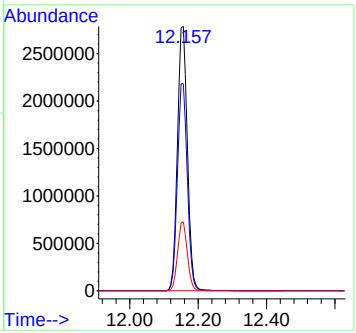


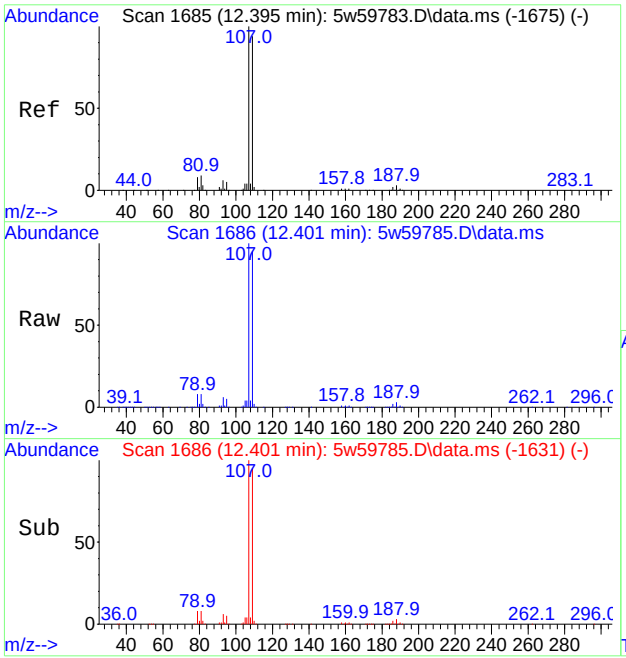


#74
DIBROMOCHLOROMETHANE
Concen: 35.57 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:129 Resp: 5622668

Ion	Ratio	Lower	Upper
129	100		
127	78.3	47.1	107.1
131	25.5	0.0	54.5

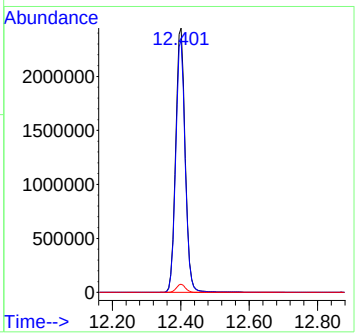


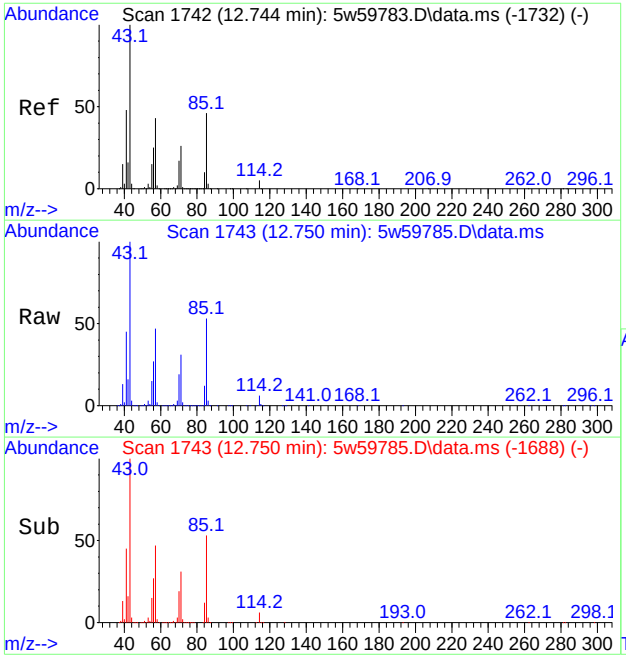


#75
1,2-DIBROMOETHANE
Concen: 40.93 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:107 Resp: 4750806

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

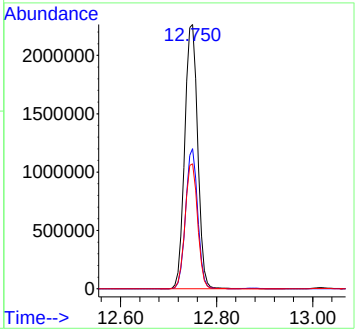


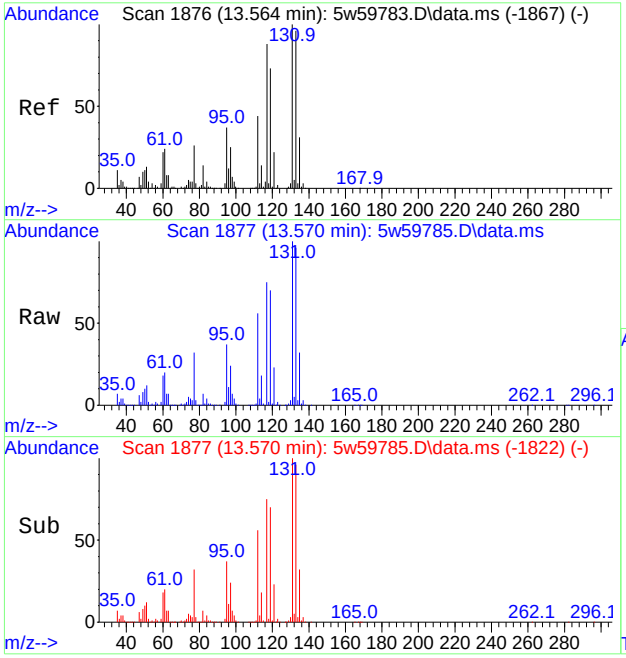


#76
OCTANE
Concen: 32.56 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4235557

Ion	Ratio	Lower	Upper
43	100		
85	49.4	14.6	74.6
57	46.0	13.7	73.7

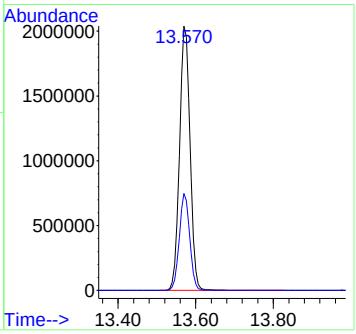


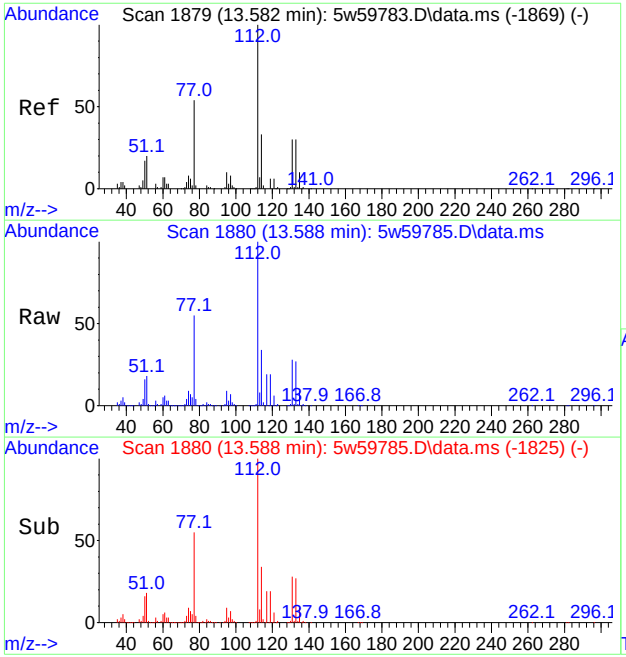


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 37.26 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:131 Resp: 3854037

Ion	Ratio	Lower	Upper
131	100		
95	36.3	6.5	66.5

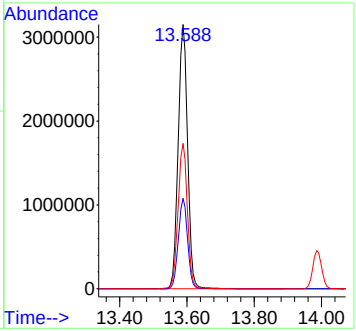


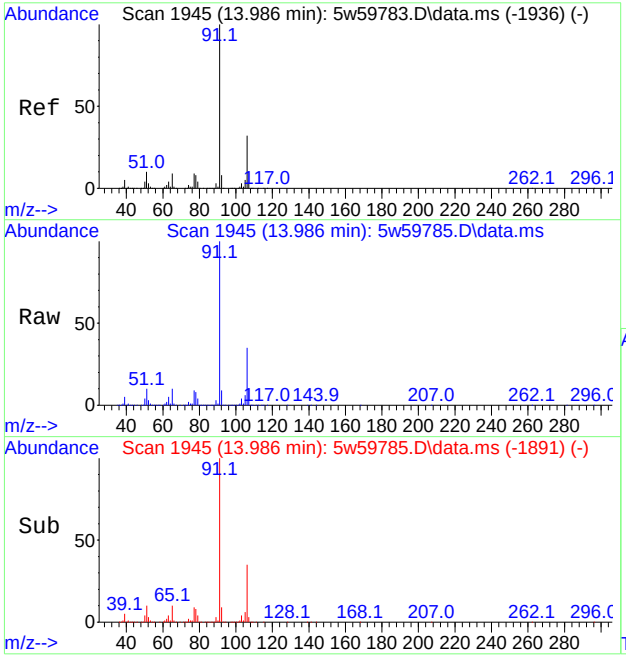


#78
CHLOROBENZENE
Concen: 35.87 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:112 Resp: 6101033

Ion	Ratio	Lower	Upper
112	100		
114	33.7	2.6	62.6
77	55.0	25.4	85.4

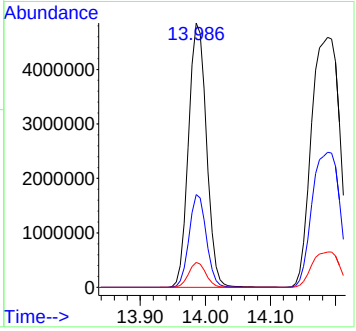


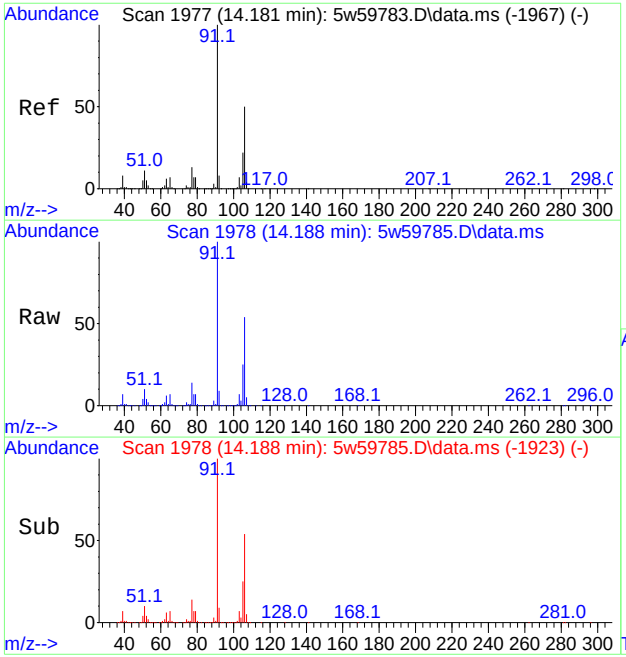


#79
ETHYLBENZENE
Concen: 38.31 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 9323124

Ion	Ratio	Lower	Upper
91	100		
106	33.7	1.3	61.3
77	9.0	0.0	38.6

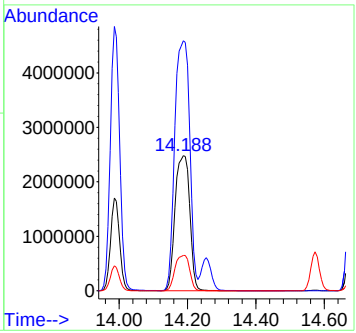


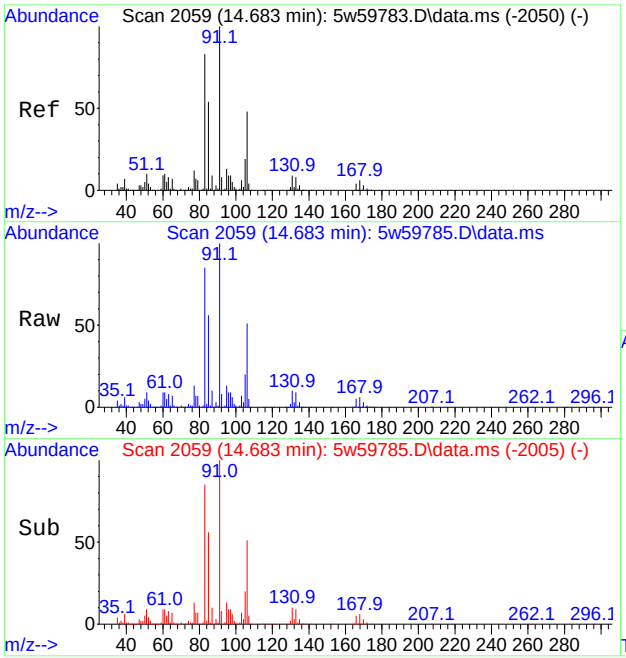


#80
m,p-XYLENE
Concen: 79.24 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 7385992

Ion	Ratio	Lower	Upper
106	100		
91	184.9	171.0	231.0
77	26.2	0.0	56.7

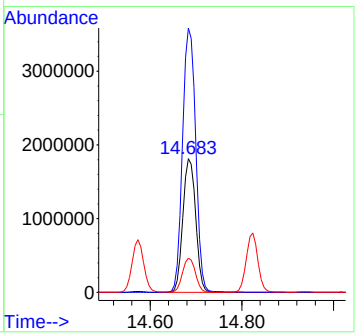


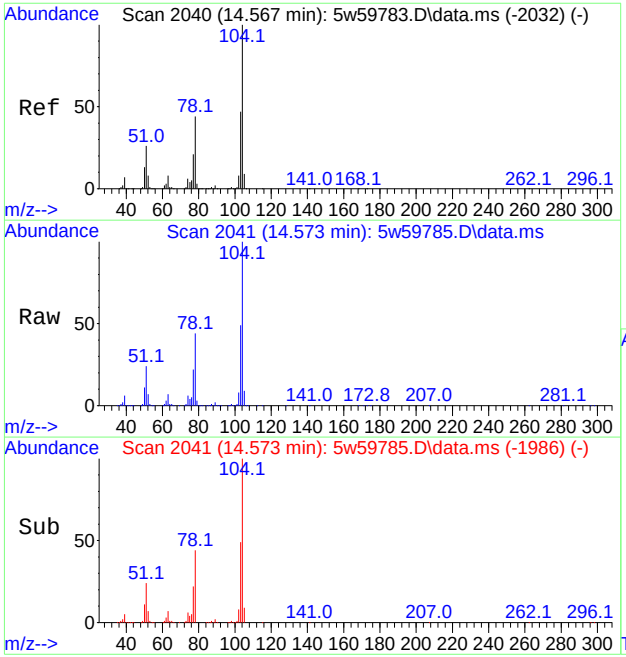


#81
o-XYLENE
Concen: 41.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 3531781

Ion	Ratio	Lower	Upper
106	100		
91	202.6	181.6	241.6
77	25.7	0.0	56.6

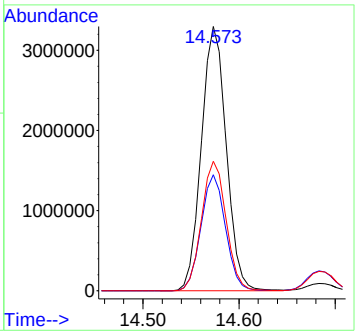


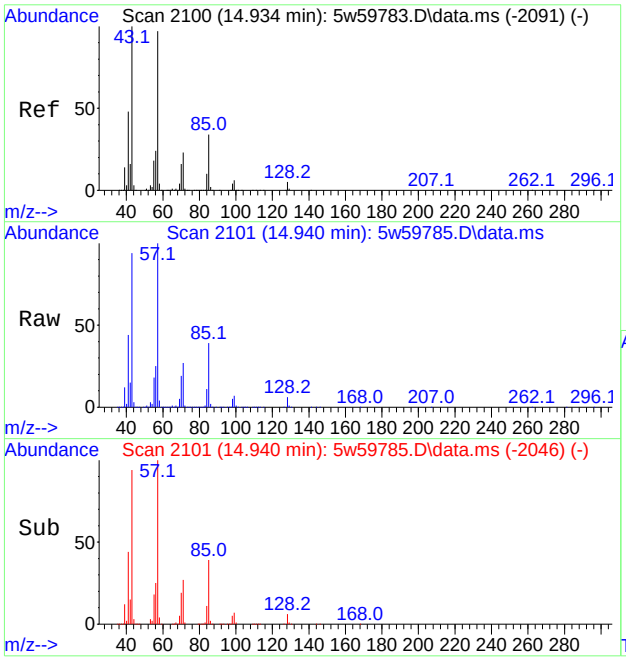


#82
STYRENE
Concen: 45.55 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:104 Resp: 5945197

Ion	Ratio	Lower	Upper
104	100		
78	43.2	13.3	73.3
103	48.5	17.2	77.2

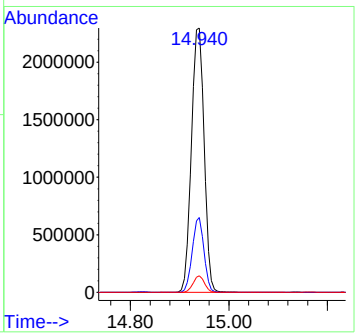


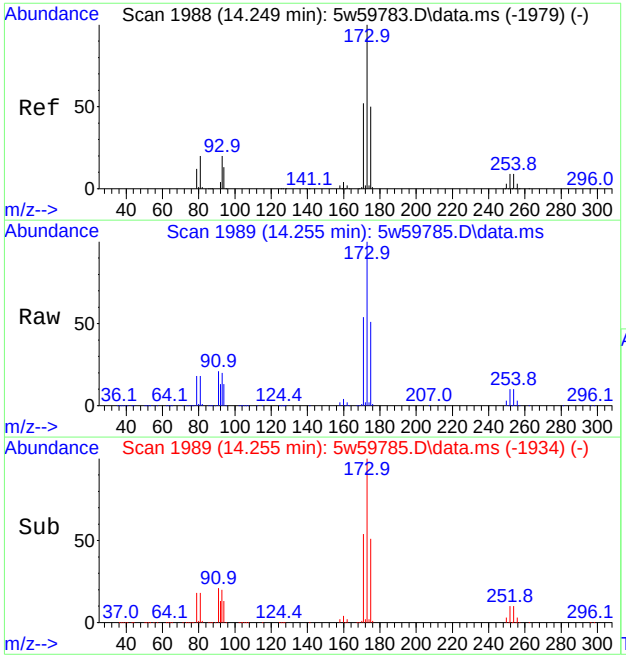


#83
NONANE
Concen: 31.95 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4120325

Ion	Ratio	Lower	Upper
43	100		
71	26.0	0.0	52.7
128	5.7	0.0	34.7

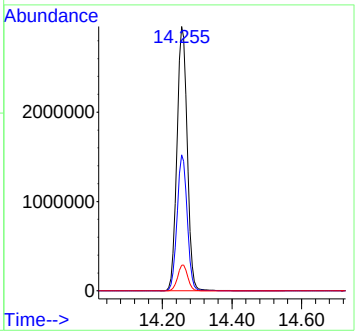


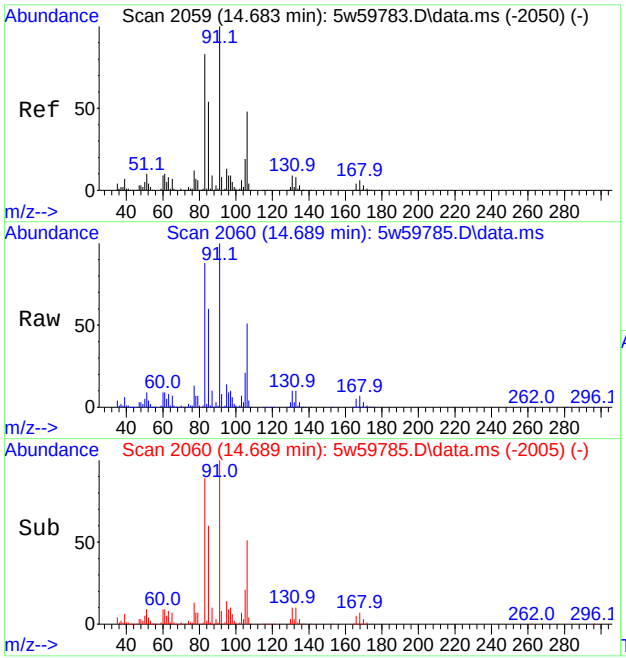


#84
BROMOFORM
Concen: 37.29 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:173 Resp: 6063084

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	9.5	0.0	39.0

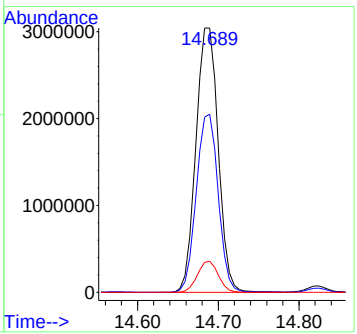


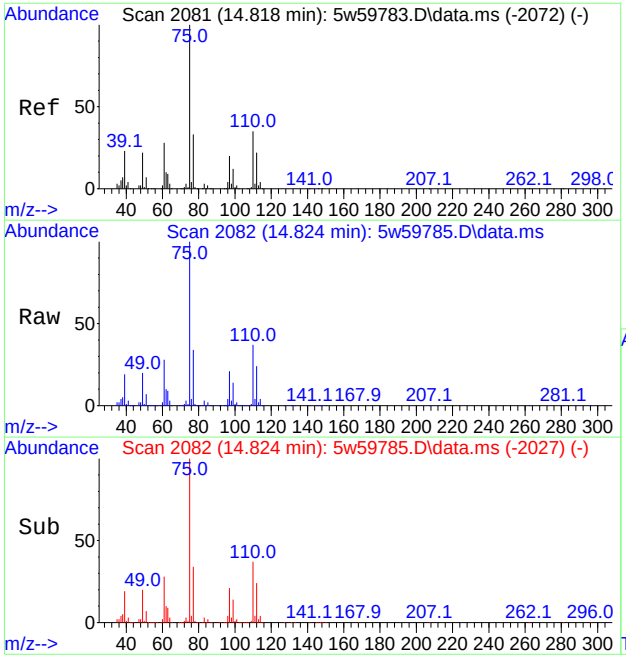


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 38.41 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 5834633

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.2	95.2
131	11.1	0.0	40.3

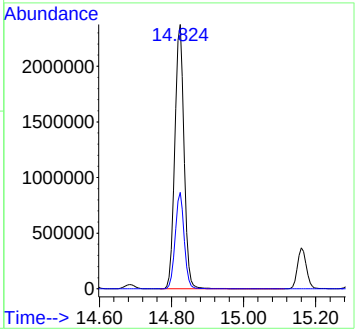


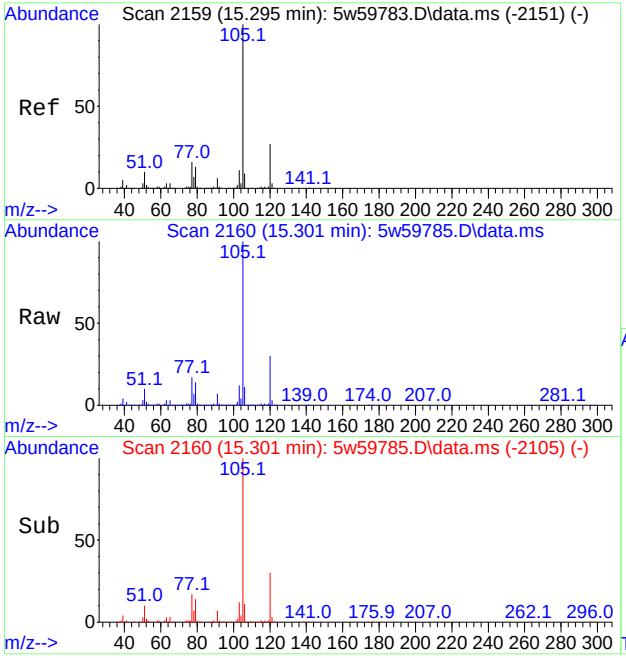


#87
1,2,3-TRICHLOROPROPANE
Concen: 33.30 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4239056

Ion	Ratio	Lower	Upper
75	100		
110	35.6	4.4	64.4

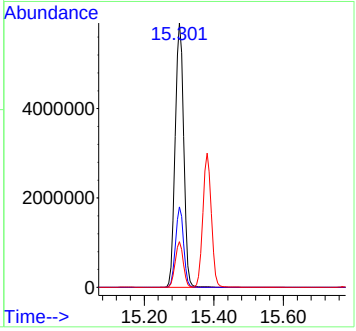


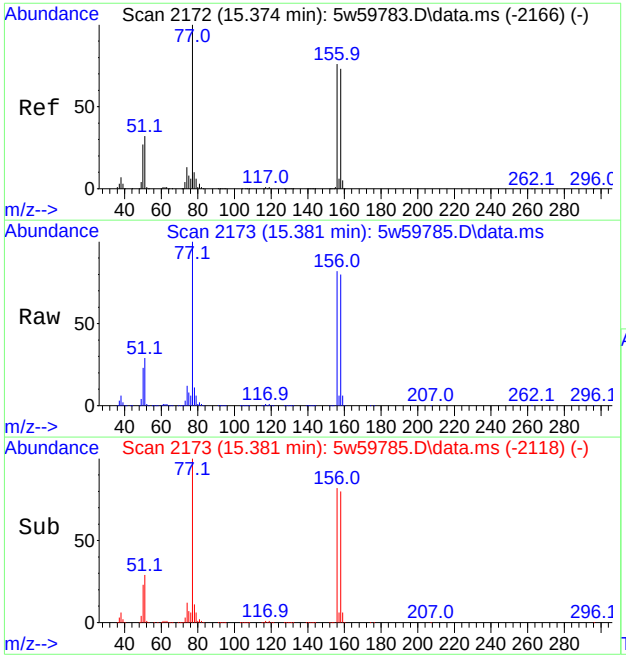


#88
ISOPROPYLBENZENE
Concen: 35.54 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp:10105051

Ion	Ratio	Lower	Upper
105	100		
120	28.8	0.0	56.0
77	16.4	0.0	45.6

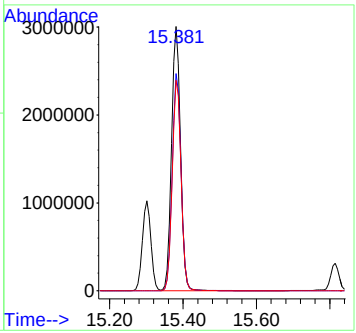


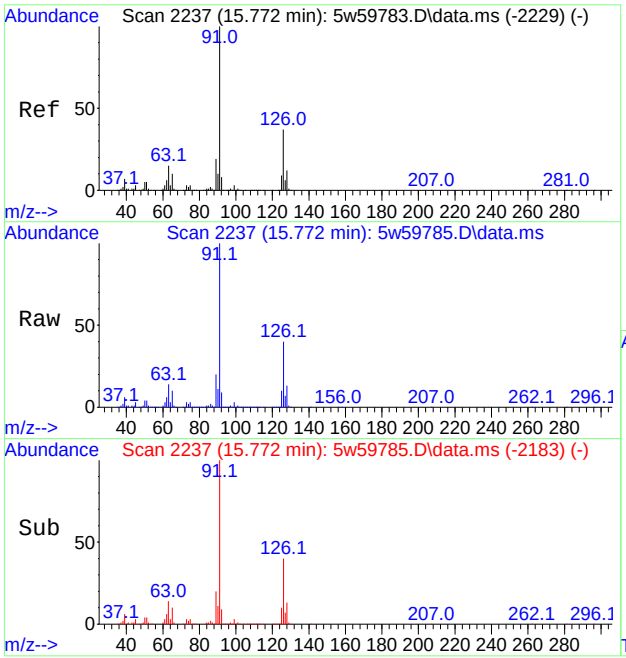


#89
BROMOBENZENE
Concen: 34.24 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 77 Resp: 5092227

Ion	Ratio	Lower	Upper
77	100		
156	81.3	54.9	101.9
158	79.0	53.5	99.3

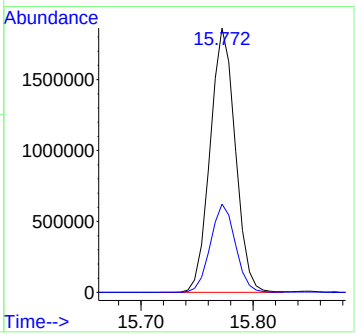


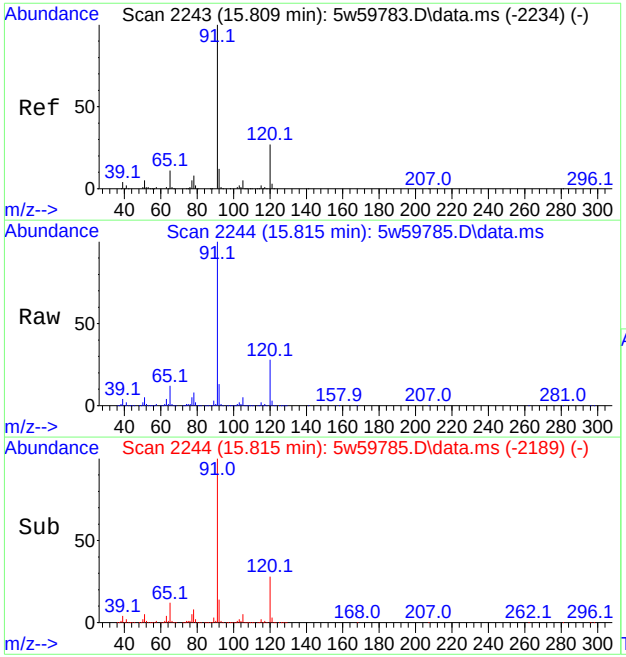


#90
2-CHLOROTOLUENE
Concen: 38.46 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:126 Resp: 2919479

Ion	Ratio	Lower	Upper
126	100		
128	33.1	2.7	62.7

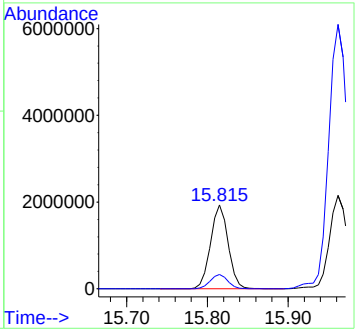


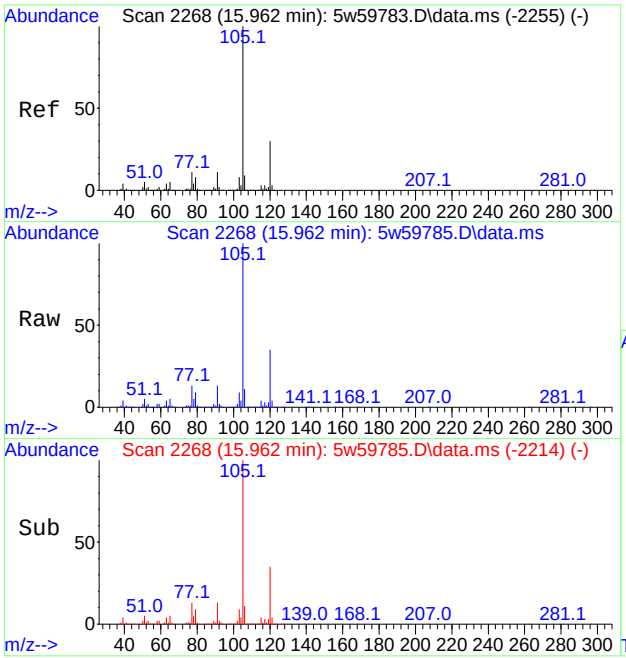


#91
n-PROPYLBENZENE
Concen: 38.73 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:120 Resp: 2929586

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

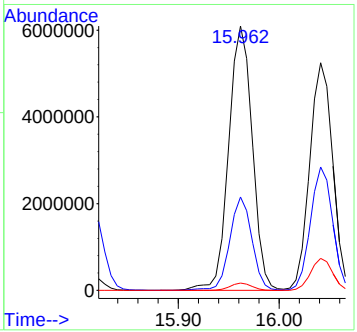


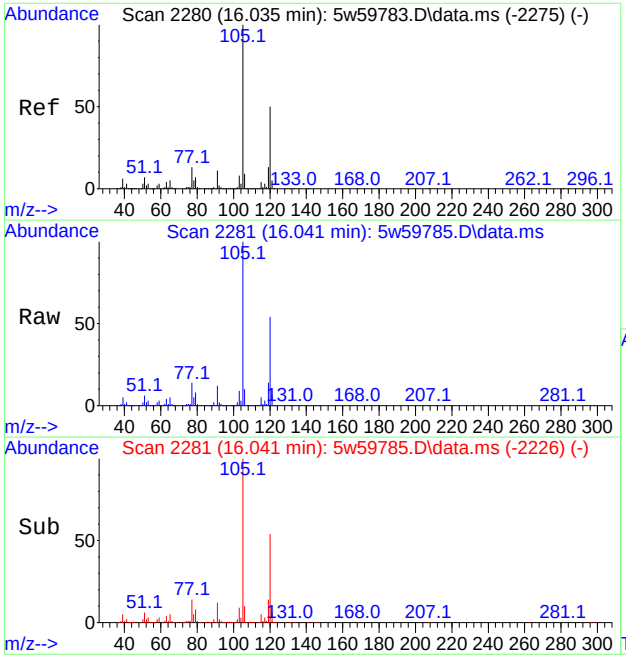


#92
4-ETHYLTOLUENE
Concen: 38.91 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 9932010

Ion	Ratio	Lower	Upper
105	100		
120	33.0	0.0	59.9
119	2.6	0.0	32.3

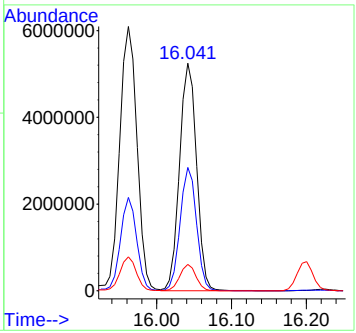


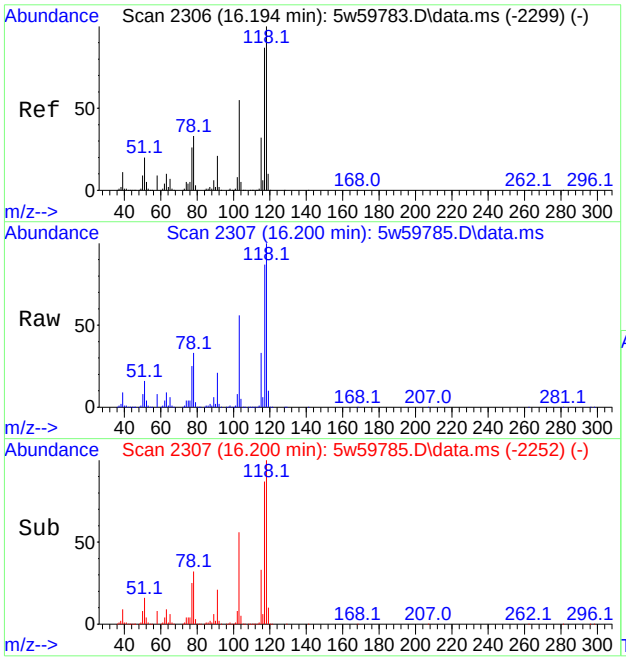


#93
1,3,5-TRIMETHYLBENZENE
Concen: 35.08 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 8308295

Ion	Ratio	Lower	Upper
105	100		
120	52.2	19.4	79.4
91	11.1	0.0	40.8

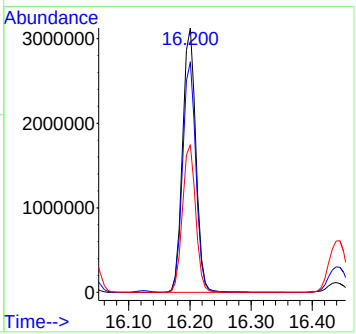


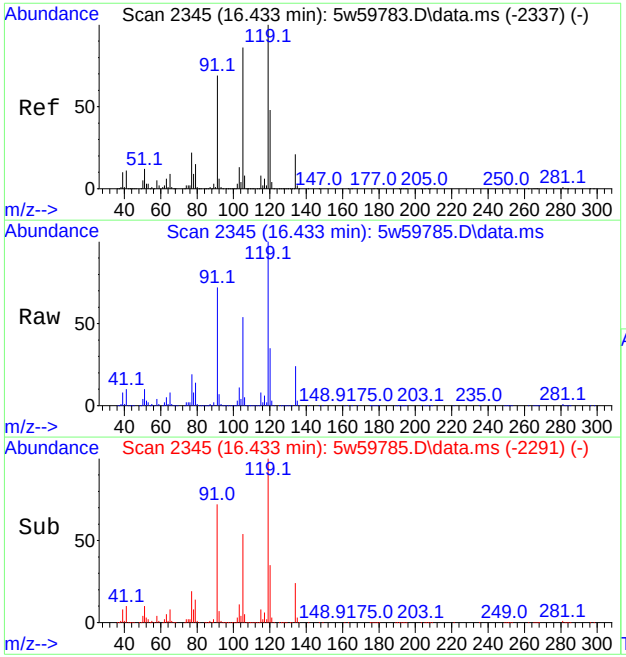


#94
ALPHA-METHYLSTYRENE
Concen: 41.57 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:118 Resp: 4732251

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.7	38.6	71.8

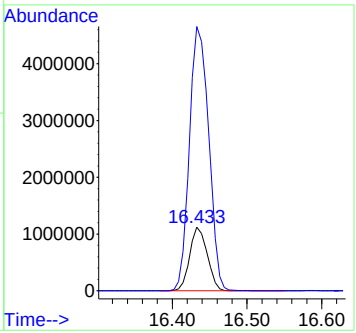


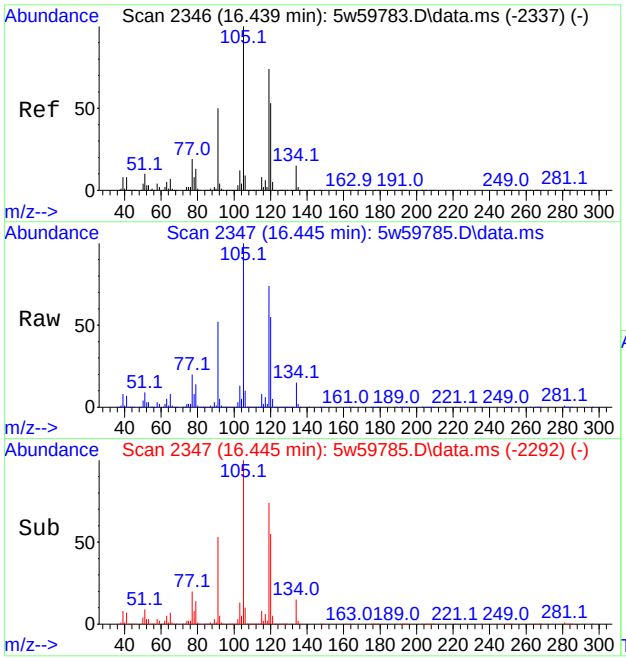


#95
tert-BUTYLBENZENE
Concen: 37.13 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 1826681

Ion	Ratio	Lower	Upper
134	100		
119	457.8	459.3	519.3#

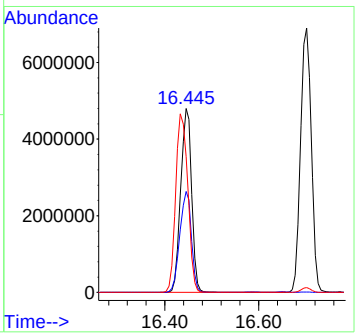


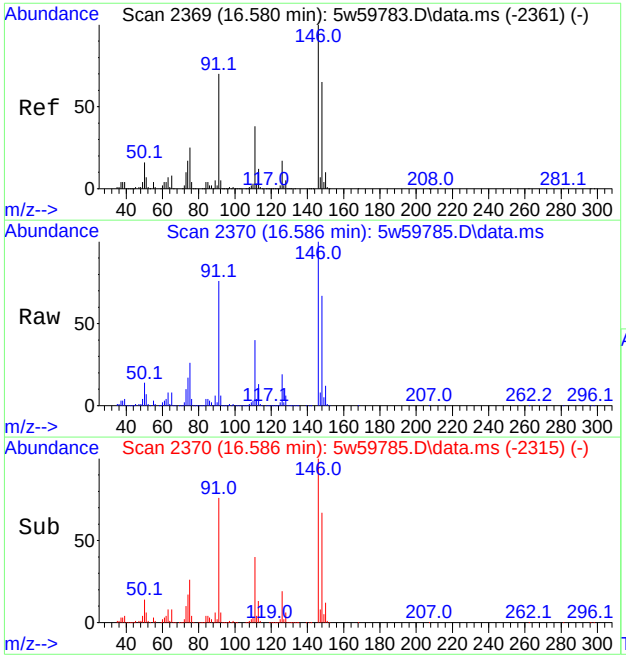


#96
1,2,4-TRIMETHYLBENZENE
Concen: 33.90 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7744703

Ion	Ratio	Lower	Upper
105	100		
120	58.3	25.7	85.7
119	108.0	75.7	135.7

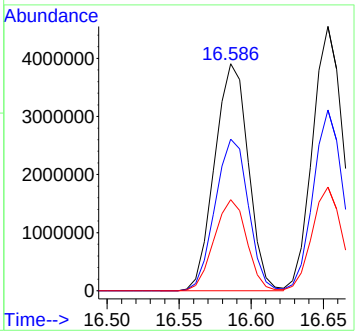


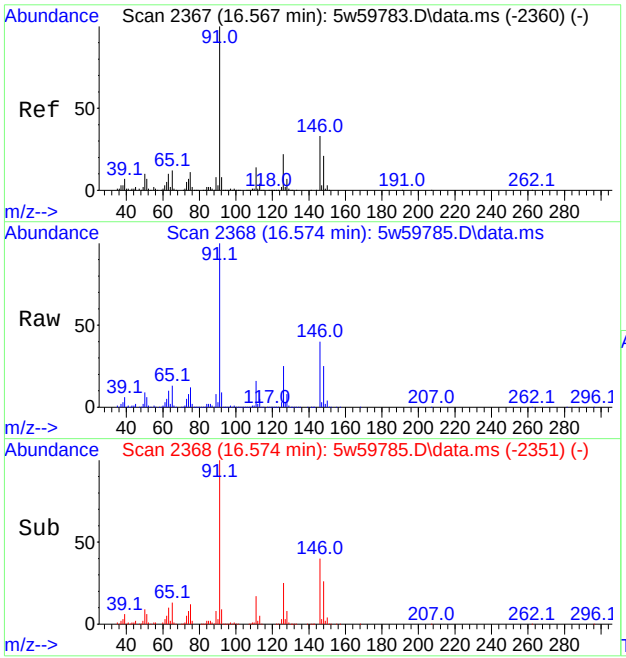


#97
m-DICHLOROBENZENE
Concen: 34.54 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6361294

Ion	Ratio	Lower	Upper
146	100		
148	66.1	34.8	94.8
111	39.0	8.2	68.2

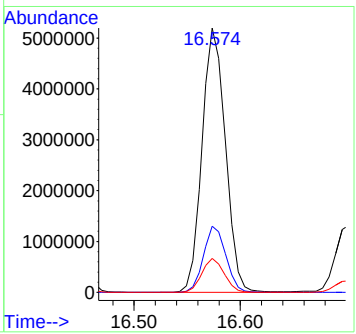


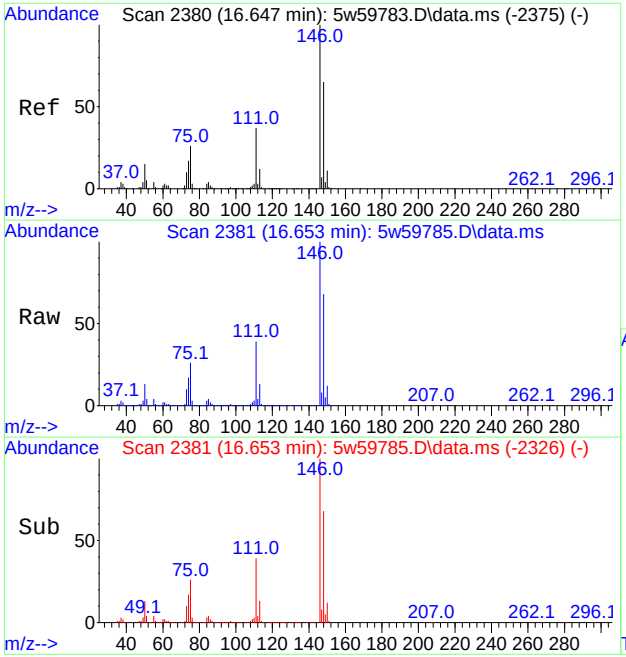


#98
BENZYL CHLORIDE
Concen: 38.06 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 7942485

Ion	Ratio	Lower	Upper
91	100		
126	24.0	0.0	51.7
65	12.3	0.0	42.2

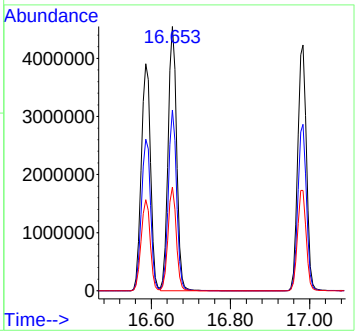


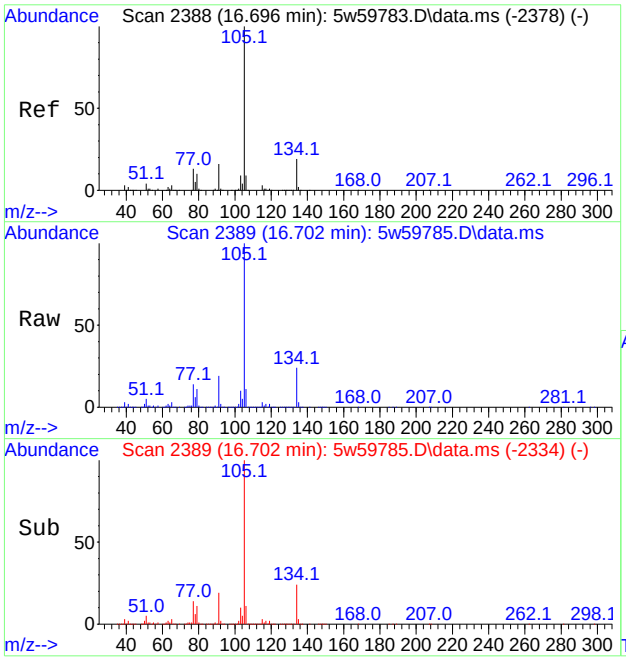


#99
p-DICHLOROBENZENE
Concen: 35.68 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6796416

Ion	Ratio	Lower	Upper
146	100		
148	66.6	34.6	94.6
111	38.0	6.7	66.7

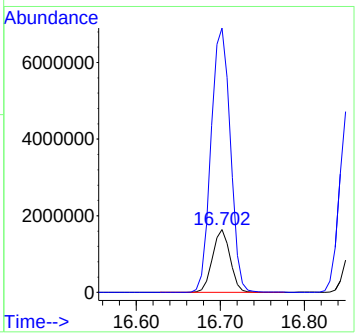


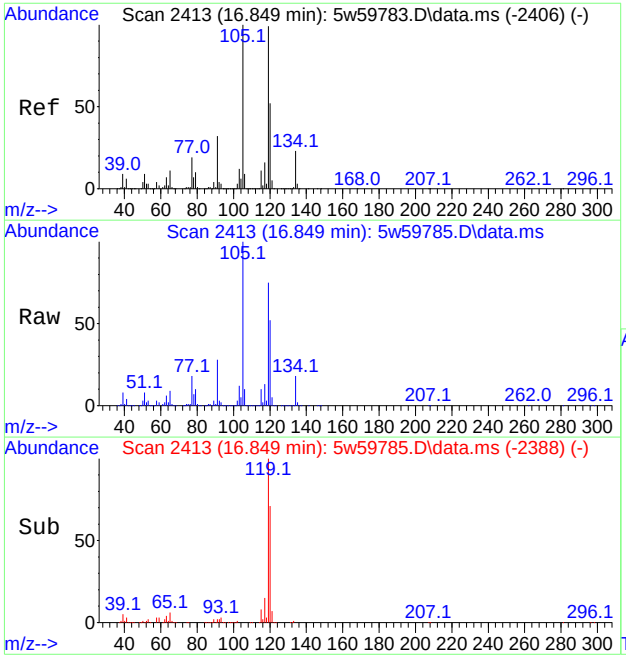


#100
sec-BUTYLBENZENE
Concen: 37.89 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2382473

Ion	Ratio	Lower	Upper
134	100		
105	462.5	502.5	562.5#

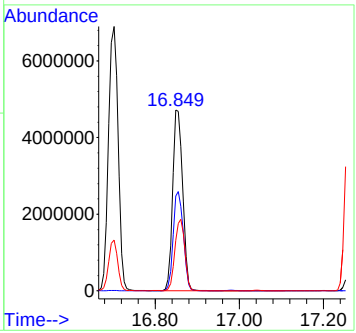


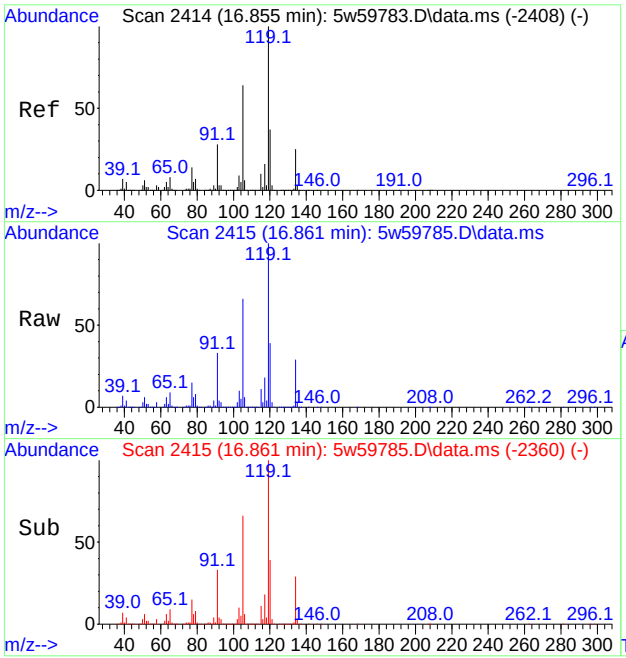


#101
1,2,3-TRIMETHYLBENZENE
Concen: 32.09 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7842082

Ion	Ratio	Lower	Upper
105	100		
120	55.3	23.5	83.5
91	38.9	7.4	67.4

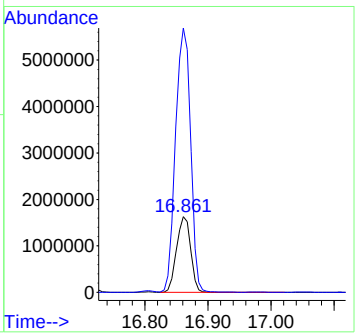


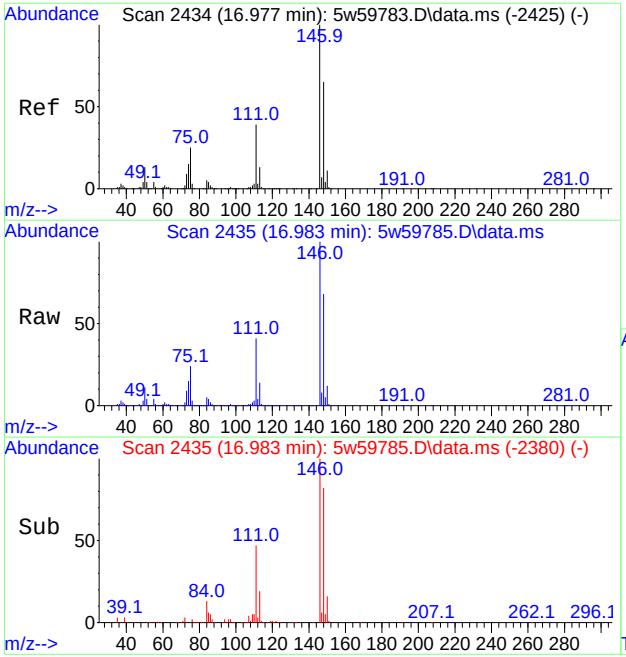


#102
p-ISOPROPYLTOLUENE
Concen: 35.07 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2537472

Ion	Ratio	Lower	Upper
134	100		
119	372.6	377.7	437.7#

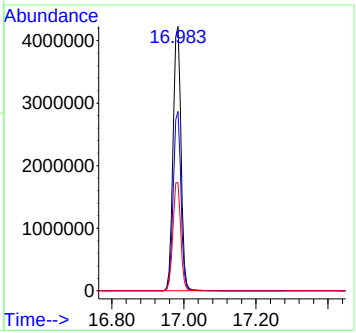


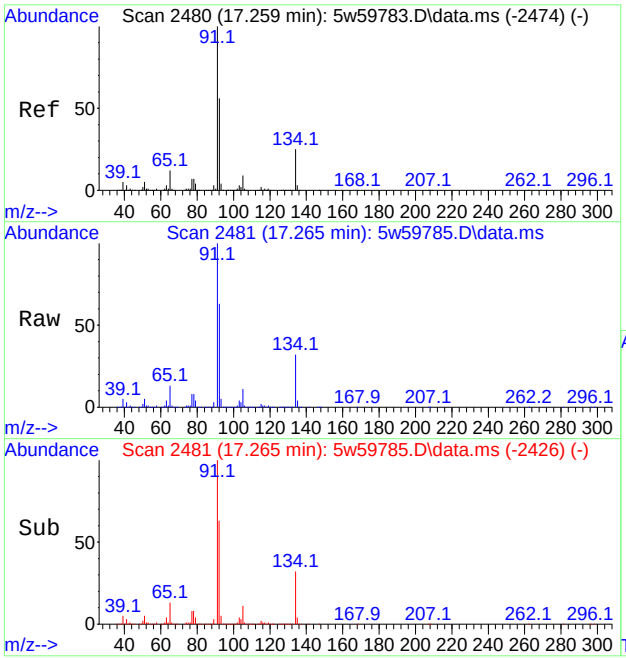


#103
o-DICHLOROBENZENE
Concen: 34.67 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6444852

Ion	Ratio	Lower	Upper
146	100		
148	66.3	34.3	94.3
111	40.6	9.2	69.2

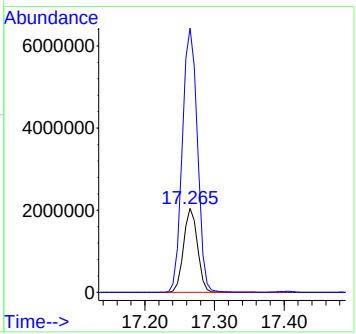


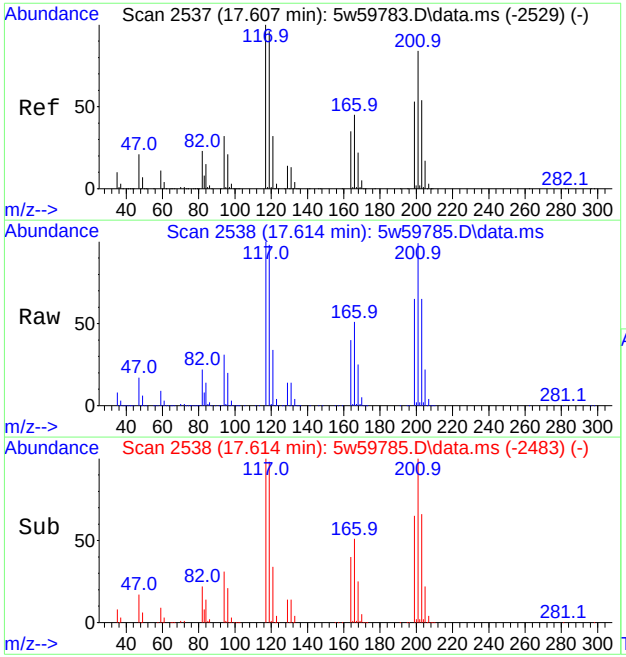


#104
n-BUTYLBENZENE
Concen: 43.05 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2846318

Ion	Ratio	Lower	Upper
134	100		
91	341.3	363.1	423.1#

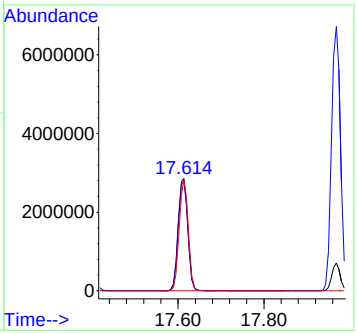


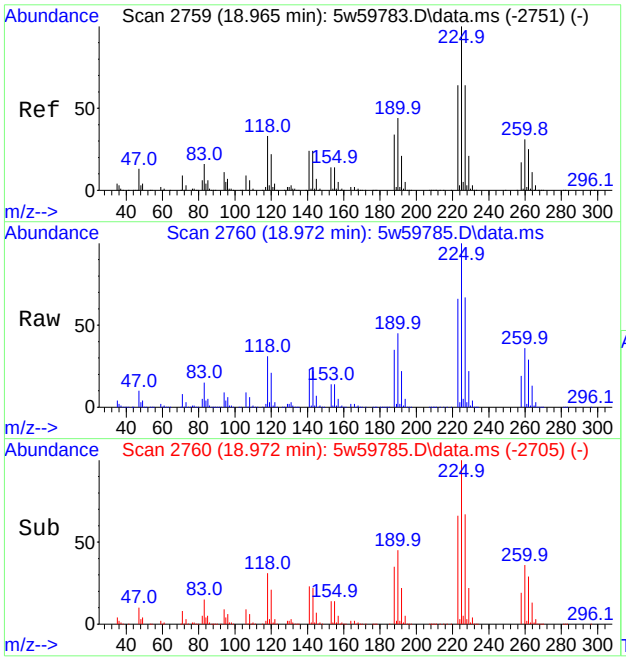


#105
HEXACHLOROETHANE
Concen: 36.00 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4455103

Ion	Ratio	Lower	Upper
117	100		
119	96.9	67.2	124.8
201	93.1	61.1	113.5

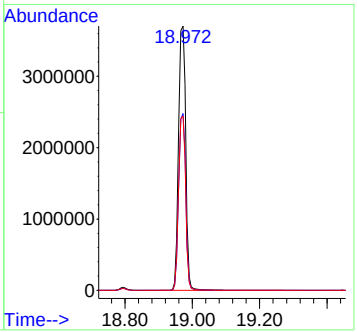


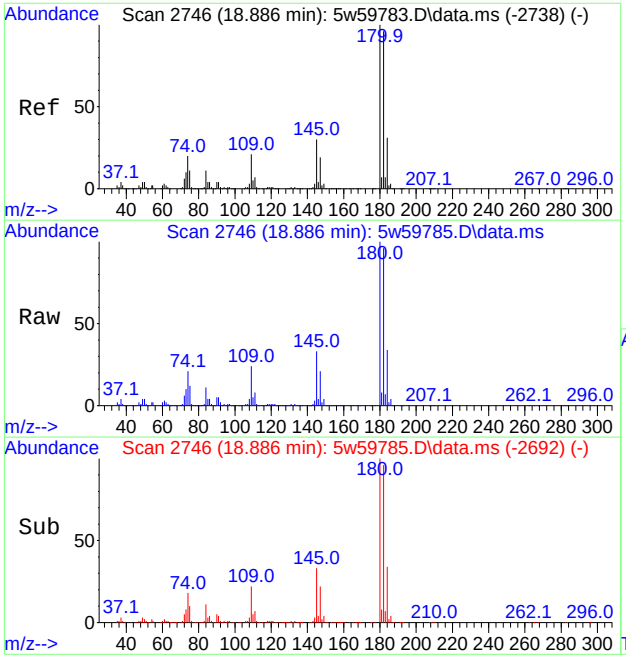


#106
HEXACHLOROBUTADIENE
Concen: 28.29 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:225 Resp: 5455879

Ion	Ratio	Lower	Upper
225	100		
227	65.9	34.2	94.2
223	65.2	33.3	93.3

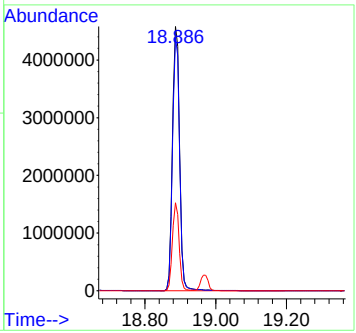


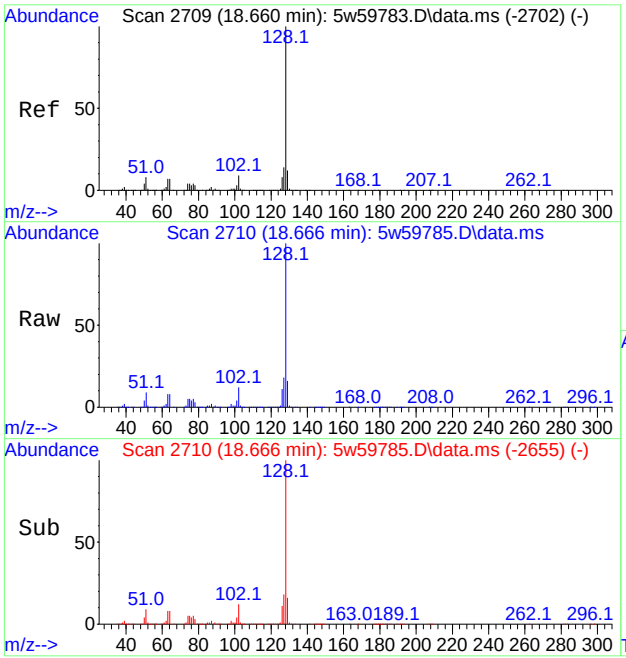


#107
1,2,4-TRICHLOROBENZENE
Concen: 48.55 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:180 Resp: 6383531

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	31.5	0.0	59.4

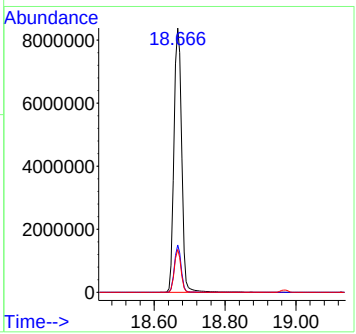


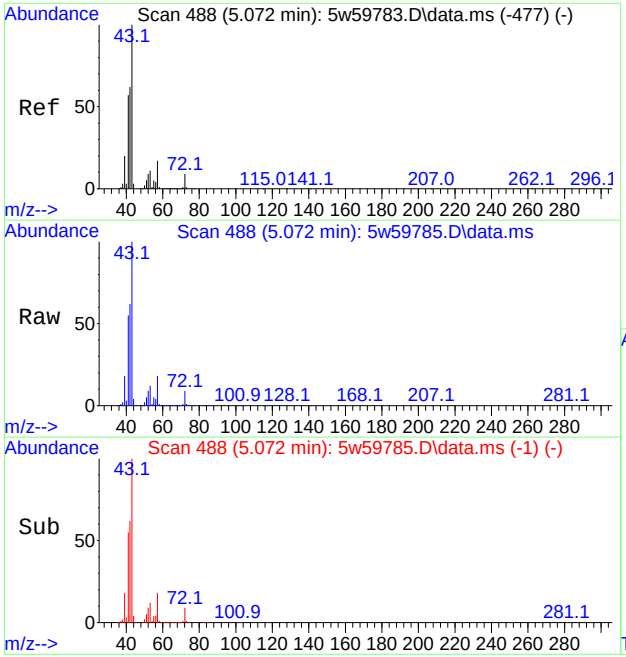


#108
NAPHTHALENE
Concen: 41.10 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:128 Resp:12695949

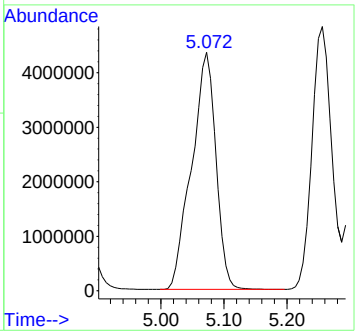
Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	43.3
129	14.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 33.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:TIC Resp:11631459



Manual Integration Approval Summary

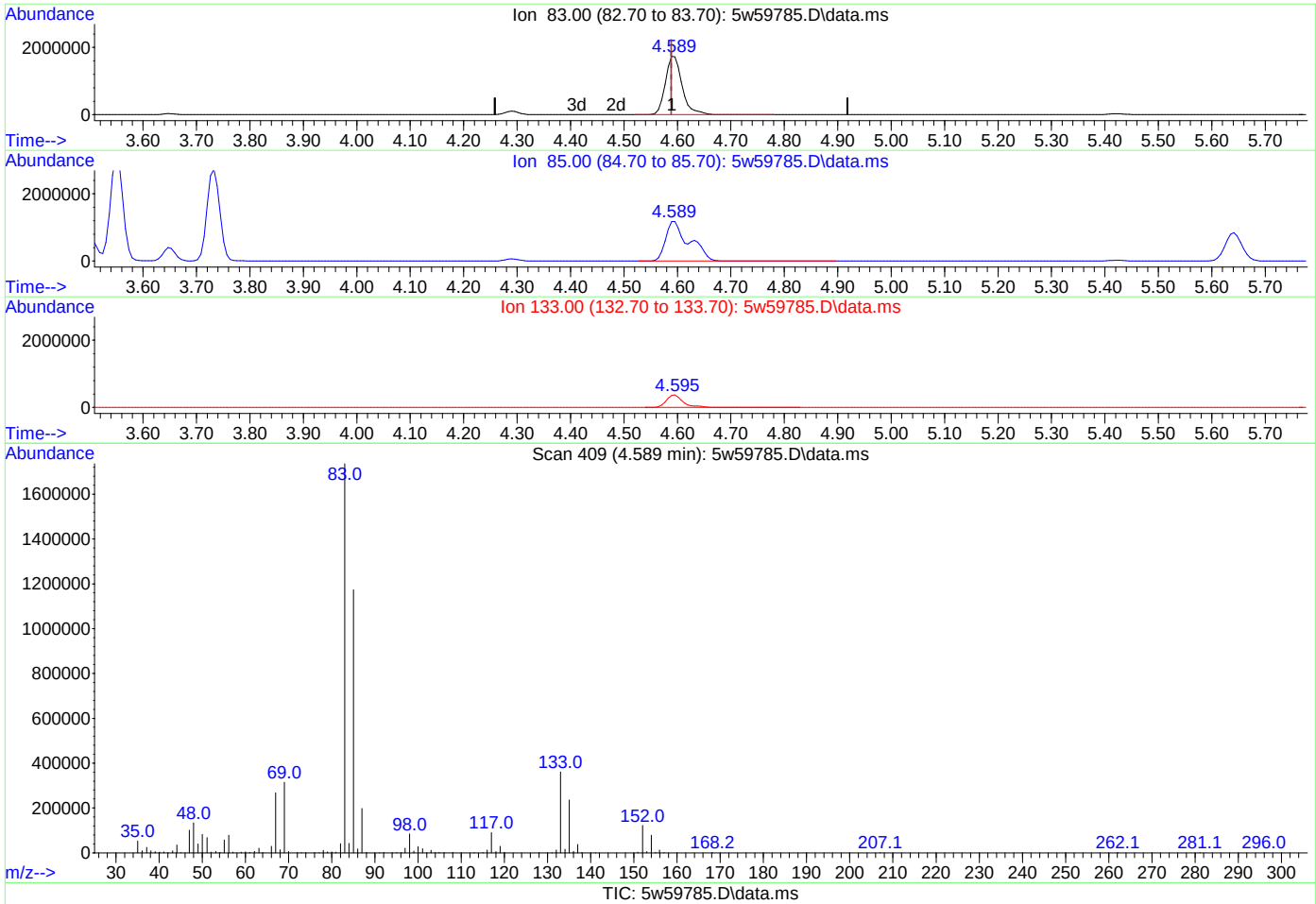
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59785.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:54 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV

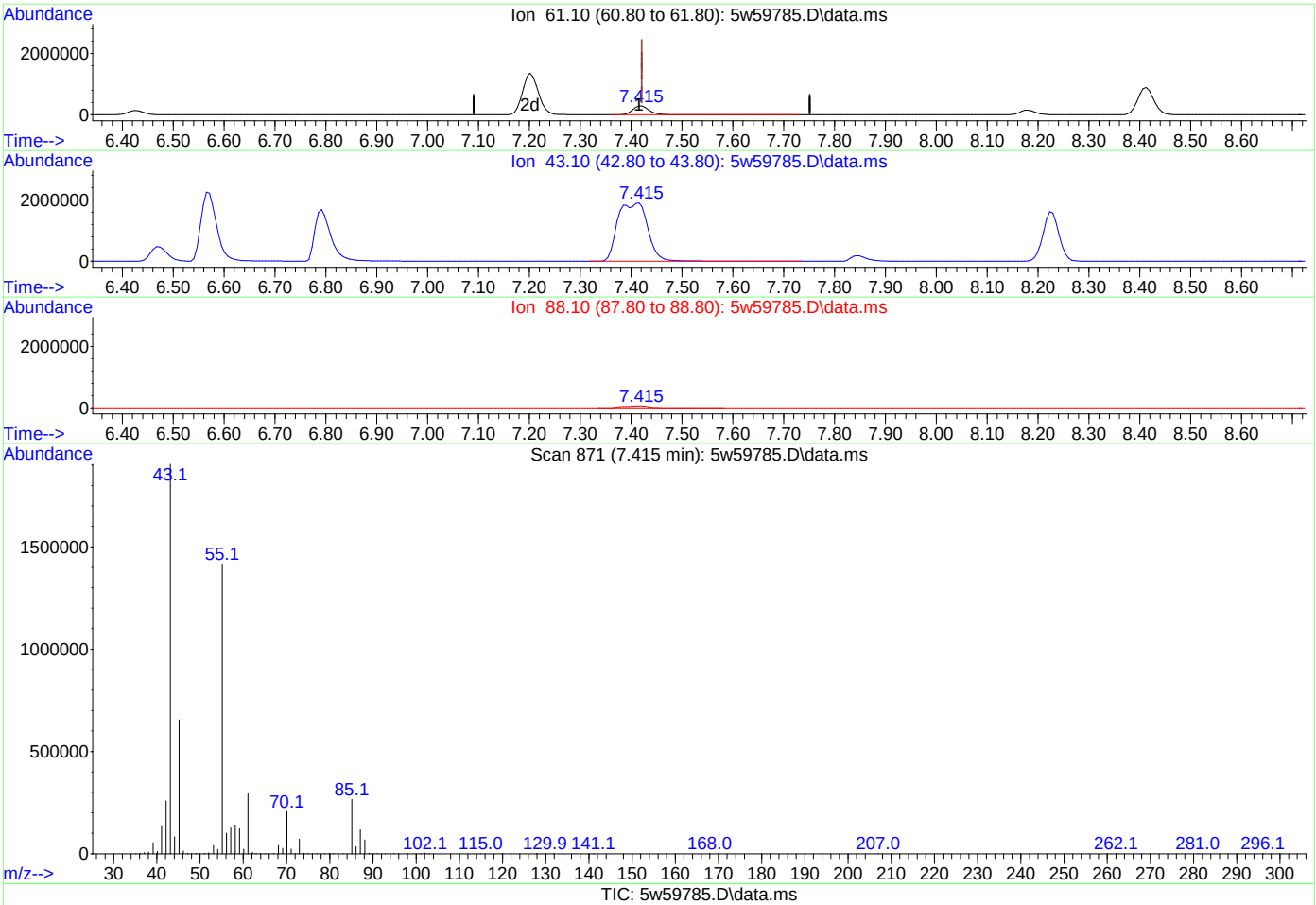
response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.18#
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV

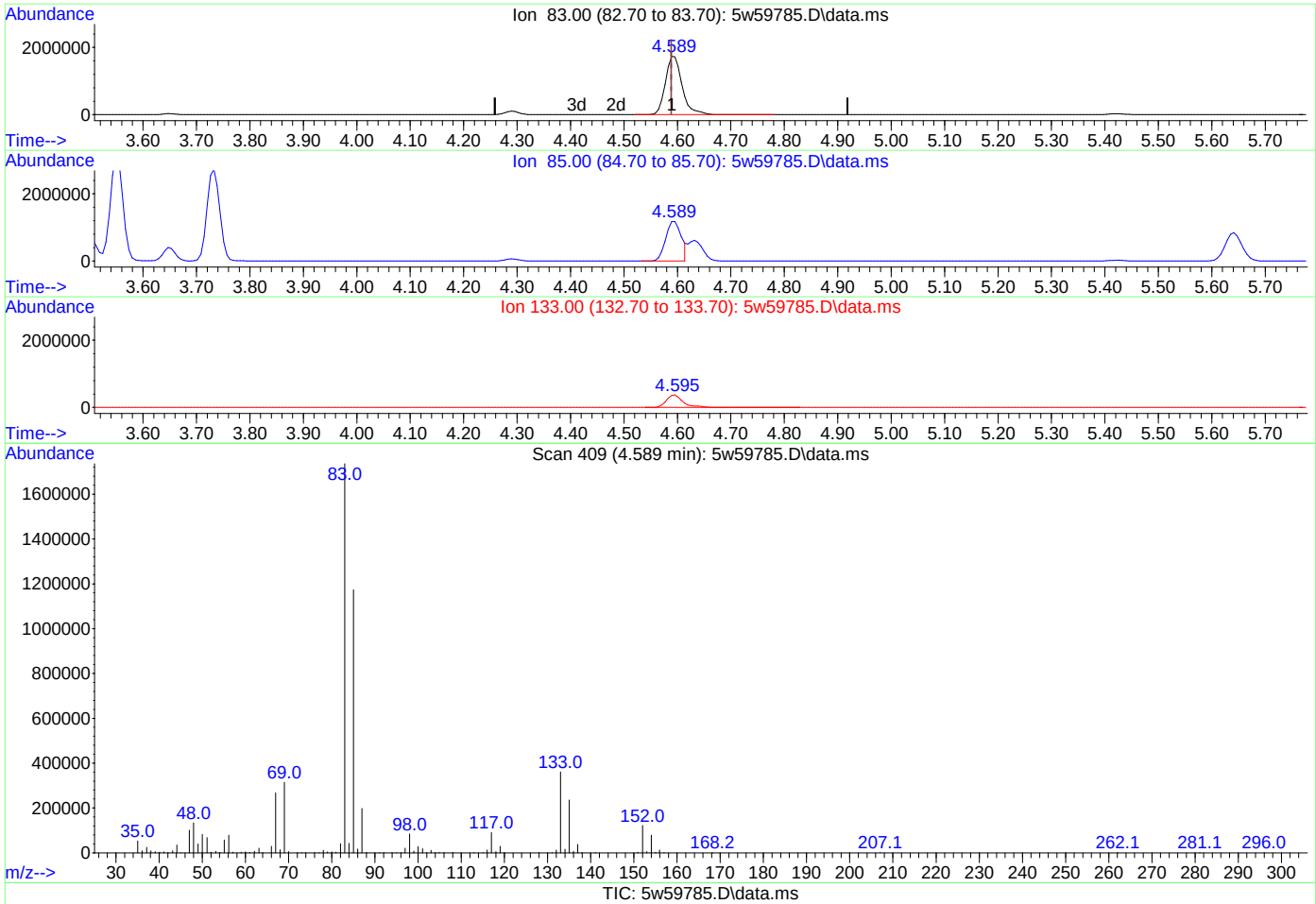
response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1167.91#
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV m

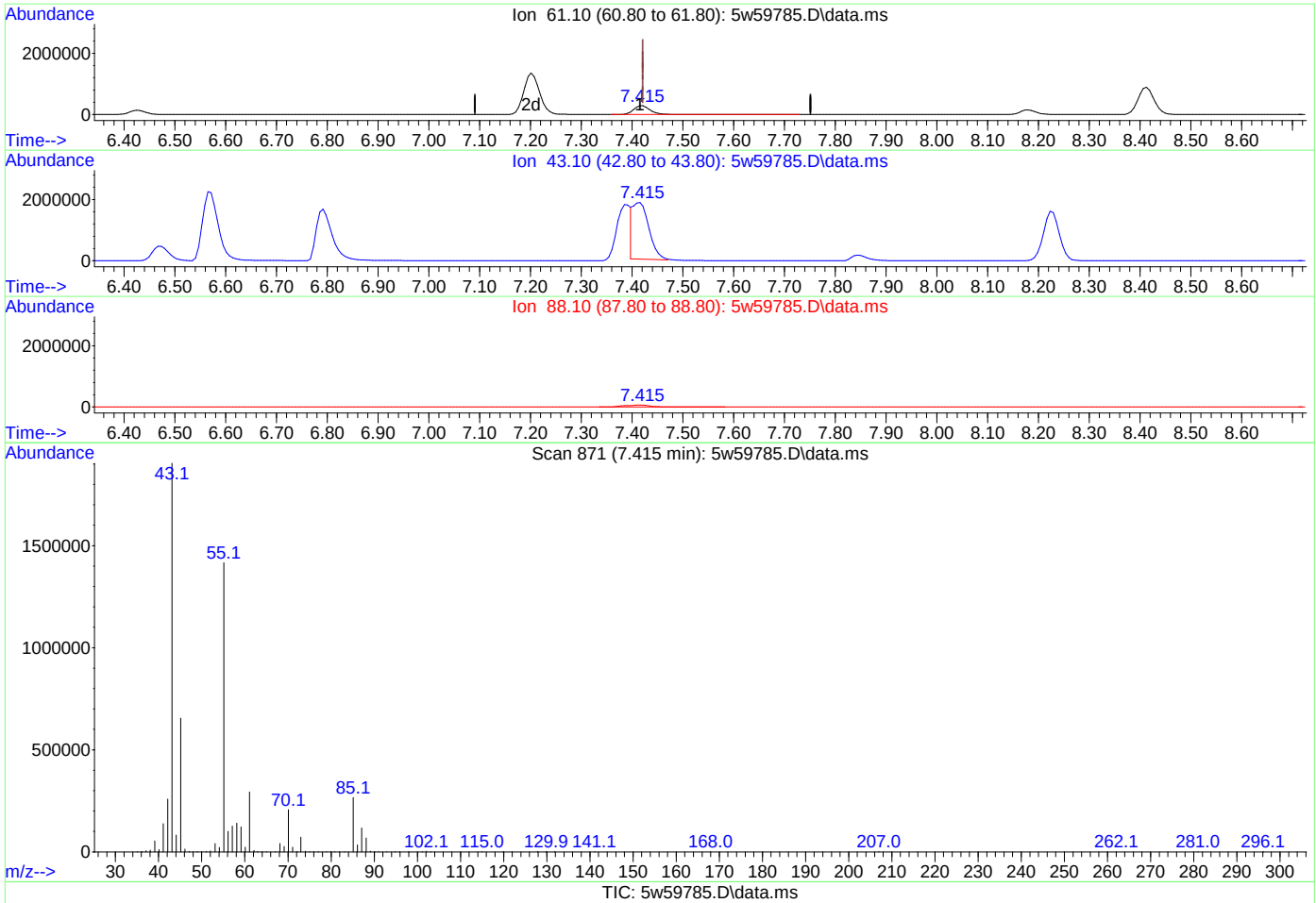
response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.60
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV m

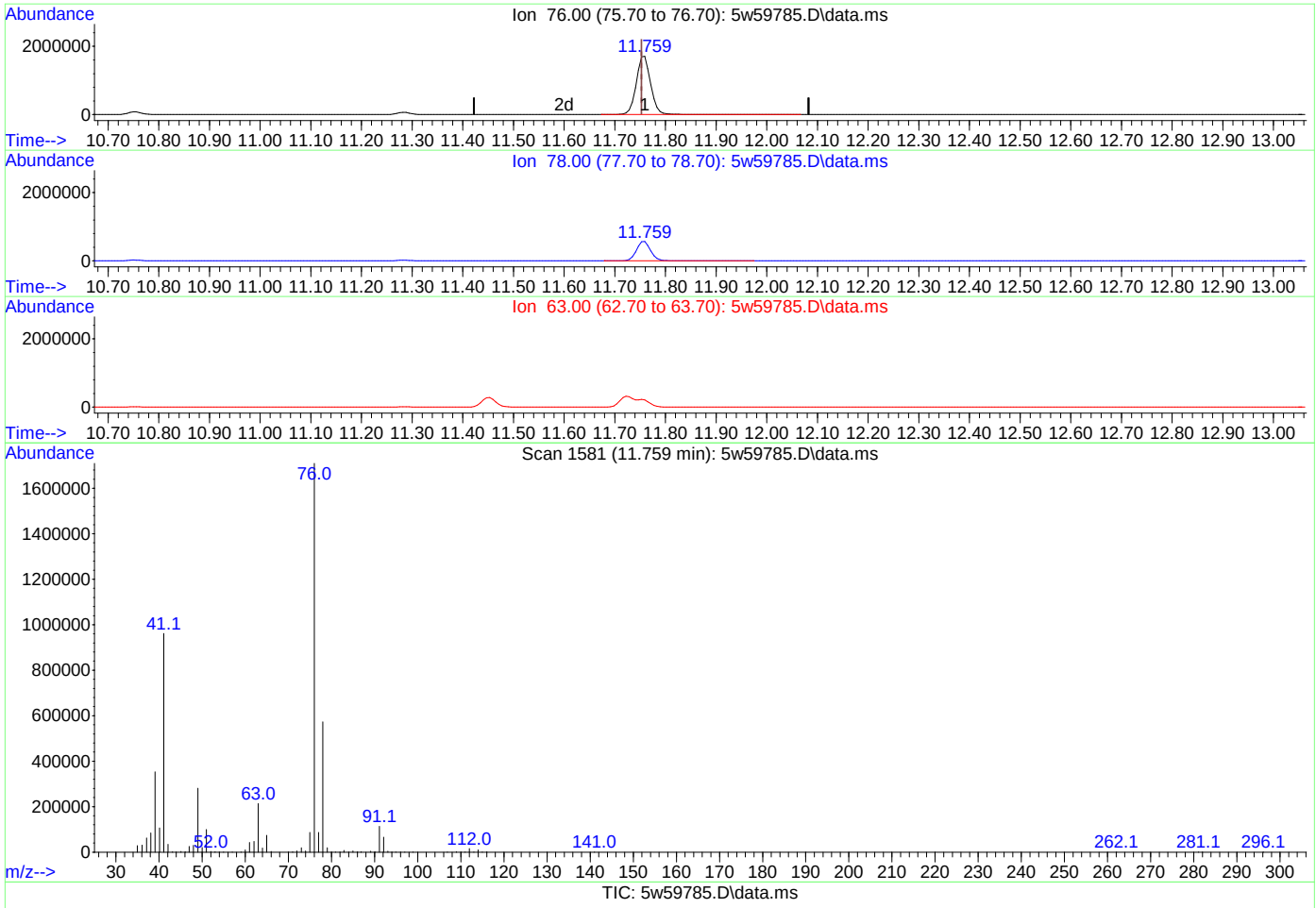
response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	592.51
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV

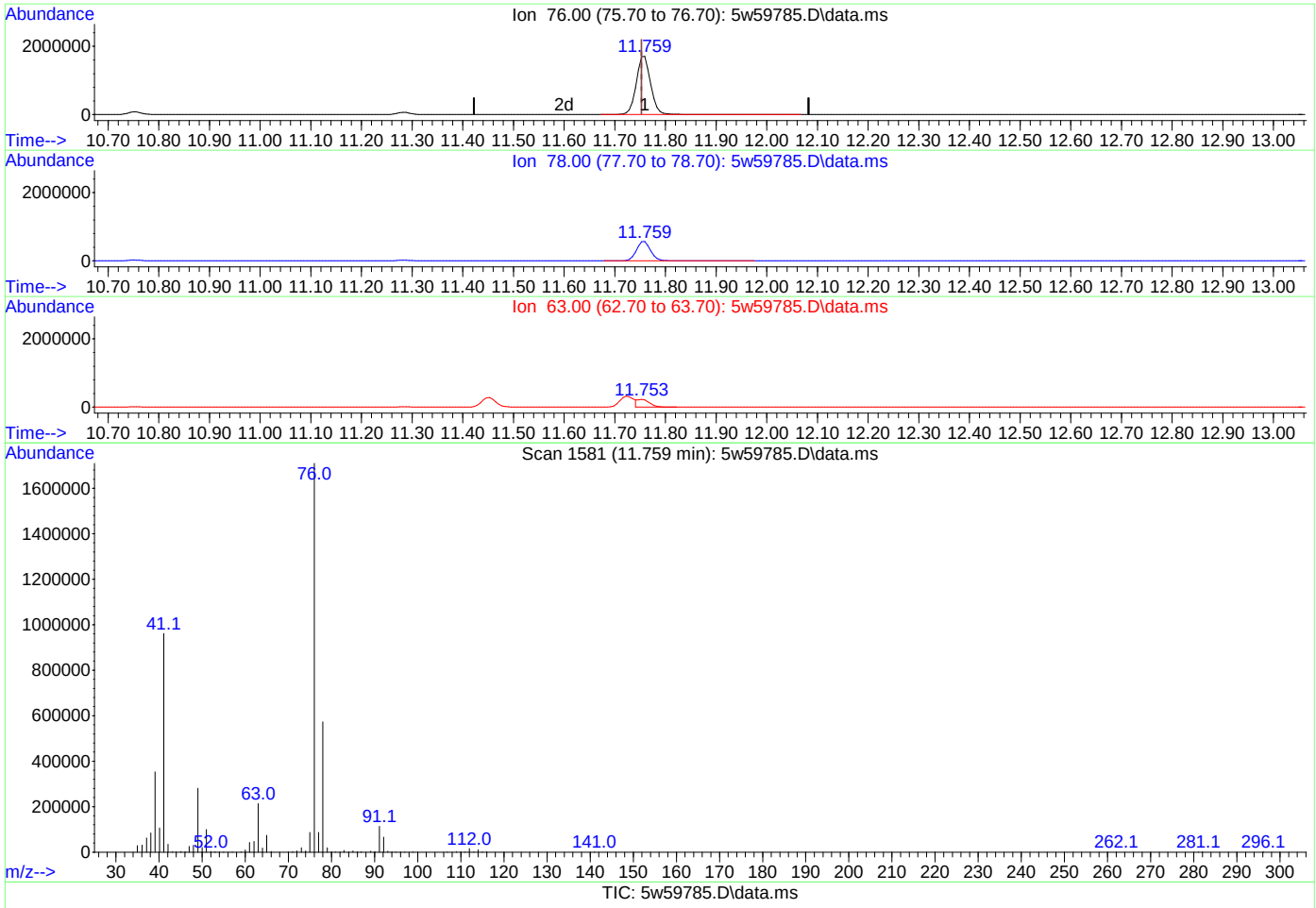
response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV m

response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	11.06
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.360	128	467162	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1929313	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1280918	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	467697	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.160	95	1403075	8.83	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 88.30%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	512492	7.63	PPBV		99
3) FREON 152A	3.445	65	1696184	36.17	PPBV		95
4) CHLORODIFLUOROMETHANE	3.475	67	765807	35.25	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.500	116	3809315	35.53	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	6454003	31.33	PPBV		97
7) PROPYLENE	3.494	41	1647441	32.49	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	4644392	27.21	PPBV		99
9) FREON 114	3.726	85	5332552	28.55	PPBV		96
10) CHLOROMETHANE	3.659	52	593159	28.33	PPBV		99
11) VINYL CHLORIDE	3.812	62	2006744	28.44	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1201486	27.81	PPBV		98
13) n-BUTANE	3.940	43	1865429	24.94	PPBV		98
14) BROMOMETHANE	4.099	94	2201552	30.01	PPBV		100
15) CHLOROETHANE	4.222	64	910647	29.04	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	4344933	28.26	PPBV		99
17) ACETONITRILE	4.479	41	1047676	24.43	PPBV		99
18) ACROLEIN	4.564	56	630972	24.71	PPBV		96
19) FREON 123	4.589	83	4570353m	27.57	PPBV		
20) FREON 123A	4.632	117	2921341	29.40	PPBV		93
21) TRICHLOROFLUOROMETHANE	4.791	101	5263086	26.51	PPBV		99
22) ISOPROPYL ALCOHOL	4.870	45	3712437	25.25	PPBV		100
23) ACETONE	4.668	58	738868	25.68	PPBV		96
24) PENTANE	5.072	42	2159289	29.26	PPBV		97
25) IODOMETHANE	5.250	142	7543155	35.46	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2443503	33.22	PPBV		95
27) CARBON DISULFIDE	5.672	76	6480951	33.10	PPBV		98
28) ETHANOL	4.320	45	668282	25.13	PPBV		99
29) BROMOETHENE	4.479	106	2216899	32.02	PPBV		100
30) ACRYLONITRILE	5.042	52	1601584	34.08	PPBV		99
31) METHYLENE CHLORIDE	5.421	84	2117266	32.13	PPBV		96
32) 3-CHLOROPROPENE	5.519	76	1102190	35.87	PPBV		90
33) FREON 113	5.641	151	4335347	33.71	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2566855	33.70	PPBV		97
35) TERTIARY BUTYL ALCOHOL	5.372	59	4270952	27.79	PPBV		99
36) METHYL TERTIARY BUTYL ...	6.467	73	6337595	33.80	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1023793	37.42	PPBV		97
38) HEXANE	7.379	57	3623516	34.89	PPBV		91
39) VINYL ACETATE	6.571	86	477066	39.37	PPBV	#	79
40) 1,1-DICHLOROETHANE	6.424	63	4545260	33.30	PPBV		99
41) METHYL ETHYL KETONE	6.791	72	1116320	39.33	PPBV	#	86
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2772689	35.23	PPBV		97
43) DIISOPROPYL ETHER	7.391	59	1134199	38.69	PPBV	#	77
44) ETHYL ACETATE	7.421	61	845012m	34.91	PPBV		
45) METHYL ACRYLATE	7.409	55	4442118	33.33	PPBV		96
46) CHLOROFORM	7.489	83	5265891	33.15	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.223	57	4372372	35.95	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	5674011	33.44	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	6150579	33.09	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	3745660	33.65	PPBV		99
52)	BENZENE	8.859	78	7354311	40.36	PPBV		99
53)	CYCLOHEXANE	9.110	84	2949070	40.67	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1522391	42.20	PPBV		93
55)	TRICHLOROETHYLENE	9.893	95	3632086	37.53	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	2868397	37.03	PPBV		99
57)	DIBROMOMETHANE	9.636	174	4006214	38.37	PPBV		98
58)	ETHYL ACRYLATE	9.685	55	5610538	37.54	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	6264555	37.04	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	10265949	34.27	PPBV		97
61)	1,4-DIOXANE	9.893	88	1571741	39.31	PPBV	#	1
62)	HEPTANE	10.193	43	3734901	36.15	PPBV		94
63)	METHYL METHACRYLATE	10.107	69	2494133	41.16	PPBV		96
64)	METHYL ISOBUTYL KETONE	10.786	58	2440543	38.84	PPBV		90
65)	cis-1,3-DICHLOROPROPENE	10.756	75	5041121	41.46	PPBV		91
66)	TOLUENE	11.722	92	5480196	41.16	PPBV		95
67)	1,3-DICHLOROPROPANE	11.759	76	4271872m	38.74	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	4565890	40.93	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.453	83	3077034	42.06	PPBV		100
71)	2-HEXANONE	12.010	58	3450029	32.66	PPBV		89
72)	ETHYL METHACRYLATE	12.028	69	4427593	33.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	4203511	31.36	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	7029117	30.46	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	5931699	33.98	PPBV		100
76)	OCTANE	12.750	43	5161401	28.88	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	4713028	31.92	PPBV		99
78)	CHLOROBENZENE	13.588	112	7439915	30.47	PPBV		99
79)	ETHYLBENZENE	13.992	91	11379916	31.54	PPBV		95
80)	m,p-XYLENE	14.194	106	9117454	65.12	PPBV		89
81)	o-XYLENE	14.689	106	4240336	32.29	PPBV		94
82)	STYRENE	14.573	104	7405410	37.26	PPBV		99
83)	NONANE	14.940	43	4961142	27.57	PPBV		91
84)	BROMOFORM	14.261	173	7504388	32.02	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	6869258	29.32	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	5400423	29.33	PPBV		96
88)	ISOPROPYLBENZENE	15.301	105	11977220	28.72	PPBV		94
89)	BROMOBENZENE	15.381	77	6360723	29.55	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	3685448	32.56	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	3584454	31.94	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	11670979	30.19	PPBV		93
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	9865714	28.34	PPBV		95
94)	ALPHA-METHYLSTYRENE	16.200	118	5900787	33.71	PPBV		99
95)	tert-BUTYLBENZENE	16.433	134	2122779	28.46	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	8886934	26.06	PPBV		97
97)	m-DICHLOROBENZENE	16.592	146	7359121	27.06	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	9095992	28.12	PPBV		96
99)	p-DICHLOROBENZENE	16.653	146	7993903	28.96	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	2827725	30.67	PPBV	#	70
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9024748	24.94	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	2924462	27.10	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	7985671	29.61	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	3481921	34.55	PPBV	#	72
105)	HEXACHLOROETHANE	17.614	117	5208368	28.92	PPBV		96
106)	HEXACHLOROBUTADIENE	18.972	225	6236008	22.78	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	7600427	32.01	PPBV		99
108)	NAPHTHALENE	18.666	128	14205927	26.02	PPBV		91
110)	TVHC as equiv Pentane	5.066	TIC	14466620	31.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

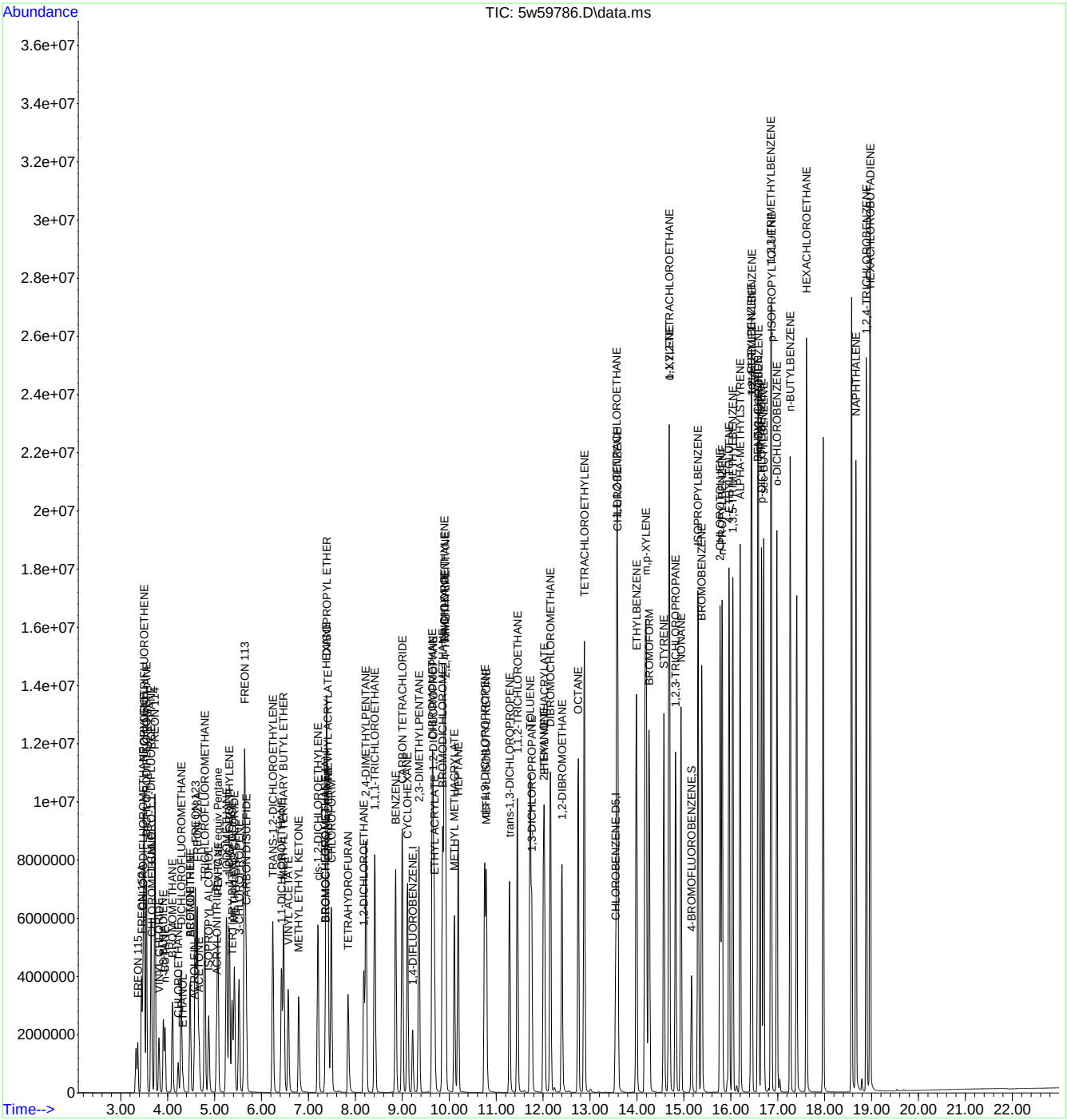
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

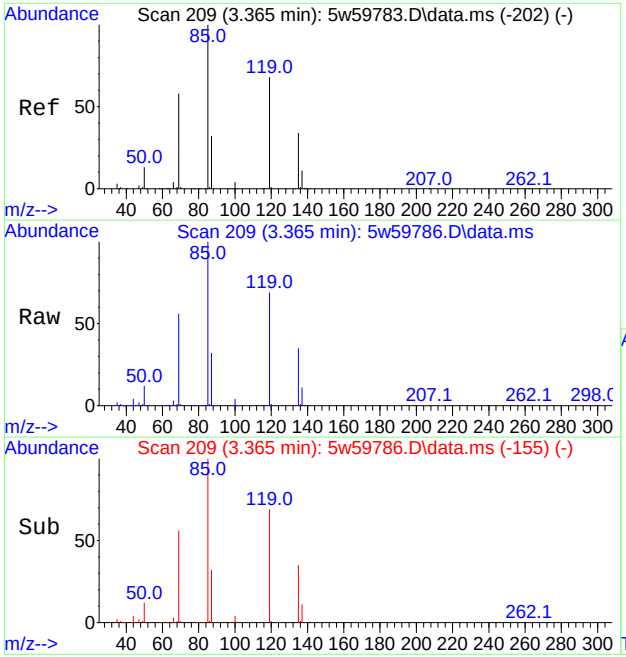
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

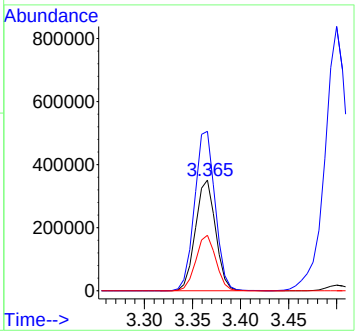


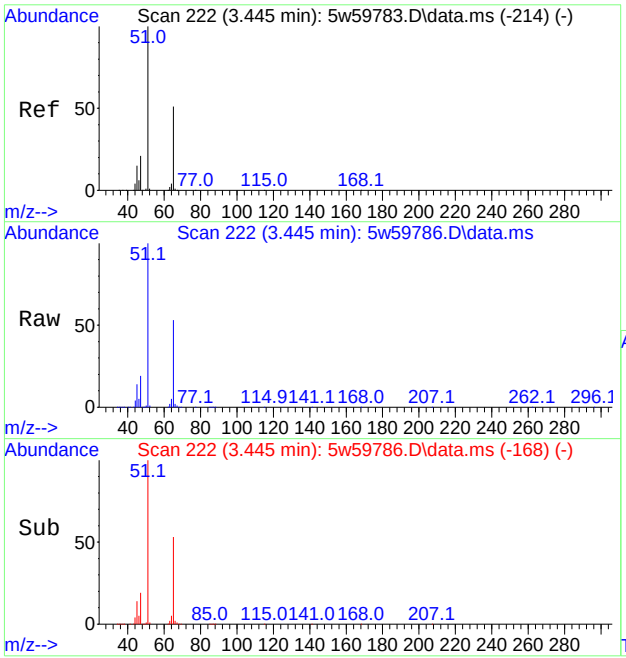


#2
FREON 115
Concen: 7.63 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:119 Resp: 512492

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.1	20.6	80.6

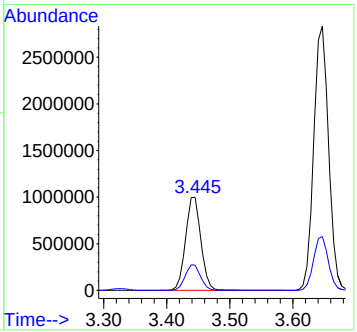


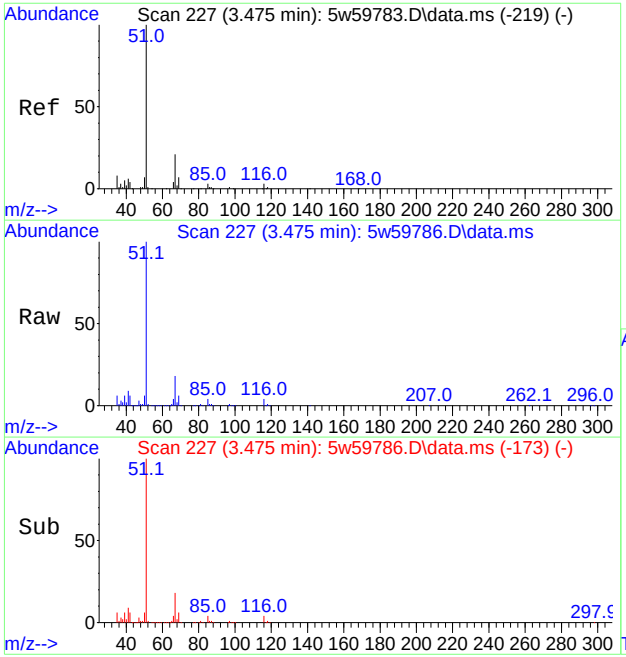


#3
FREON 152A
Concen: 36.17 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 1696184

Ion	Ratio	Lower	Upper
65	100		
45	27.4	0.0	60.0

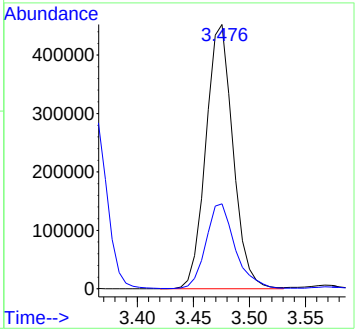


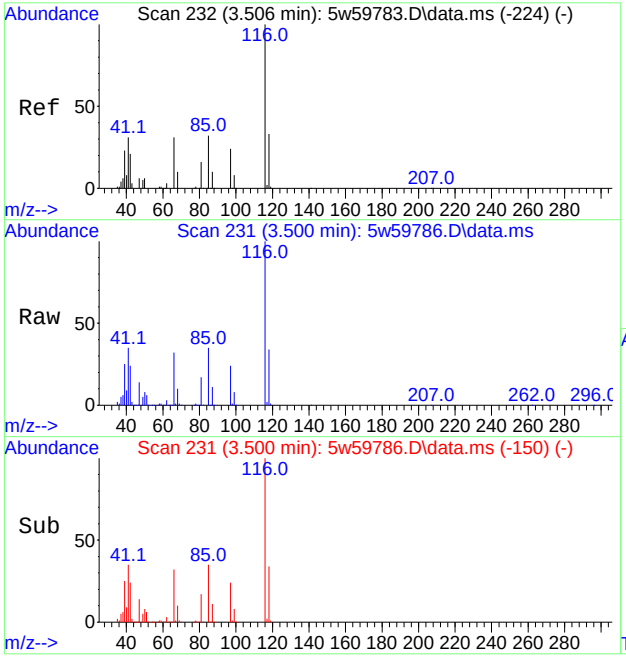


#4
CHLORODIFLUOROMETHANE
Concen: 35.25 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 765807

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

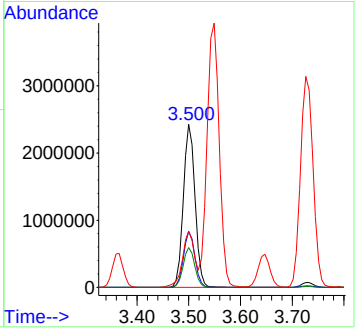


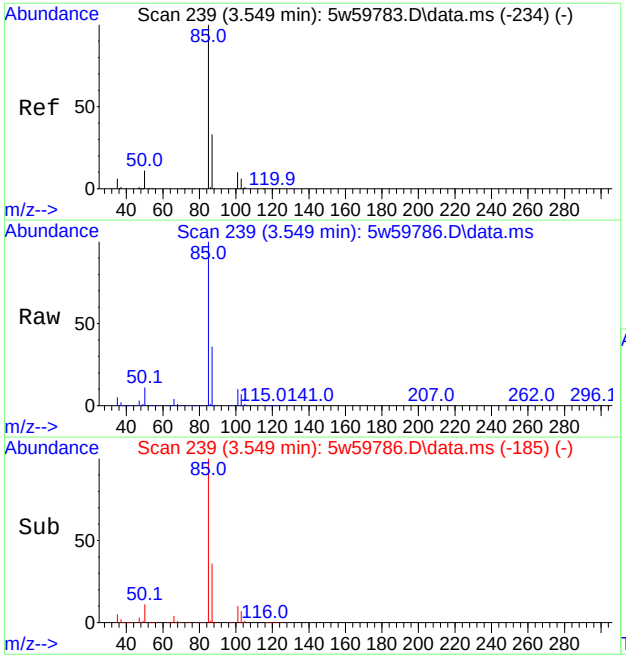


#5
CHLOROTRIFLUOROETHENE
Concen: 35.53 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:116 Resp: 3809315

Ion	Ratio	Lower	Upper
116	100		
118	33.7	22.9	42.5
85	36.0	23.7	44.1
97	24.2	17.0	31.6

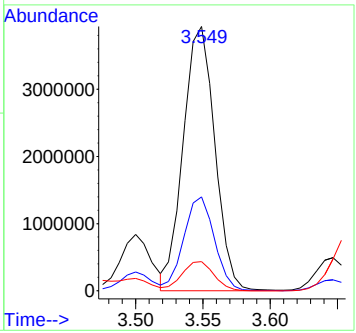


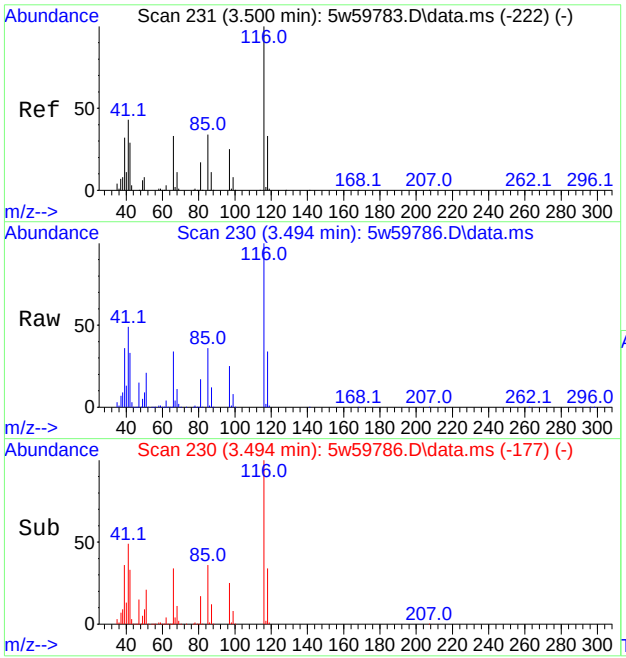


#6
DICHLORODIFLUOROMETHANE
Concen: 31.33 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 6454003

Ion	Ratio	Lower	Upper
85	100		
87	34.5	2.5	62.5
50	11.2	0.0	41.7

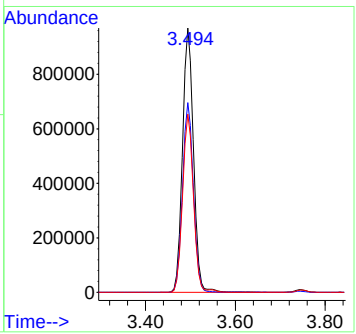


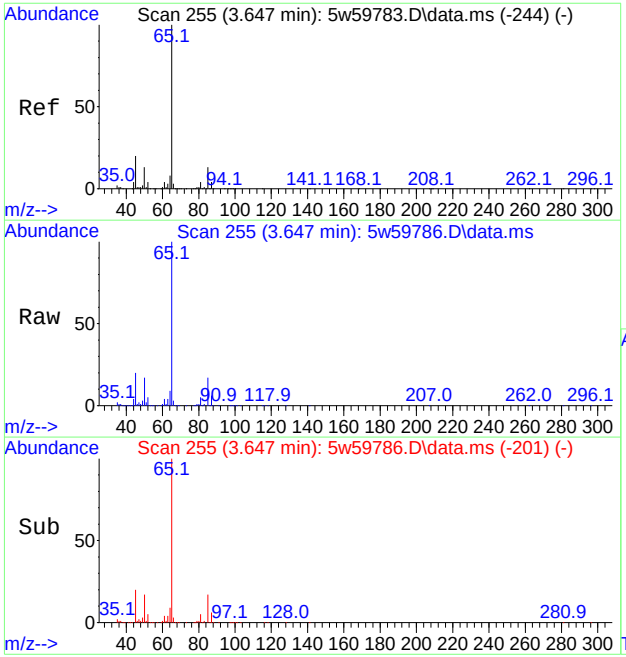


#7
PROPYLENE
Concen: 32.49 PPBV
RT: 3.494 min Scan# 230
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1647441

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.1	36.3	96.3

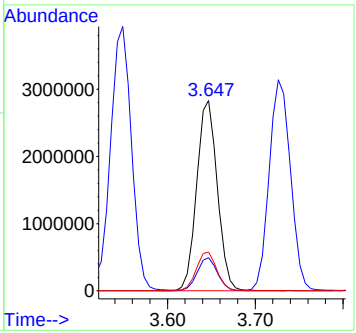


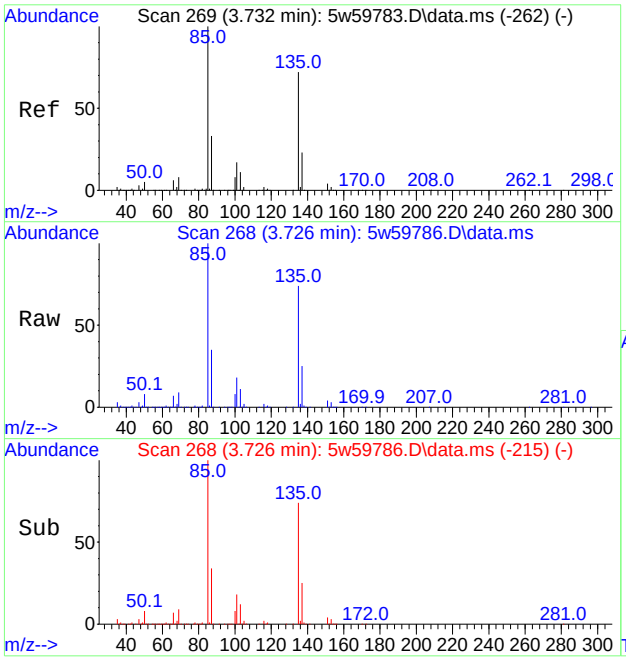


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 27.21 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 4644392

Ion	Ratio	Lower	Upper
65	100		
85	17.0	11.5	21.3
45	20.3	14.0	26.0

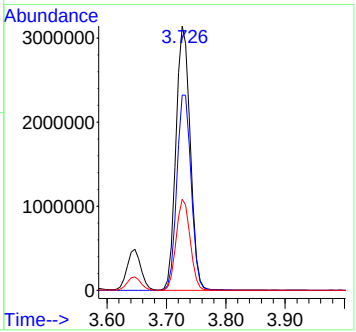


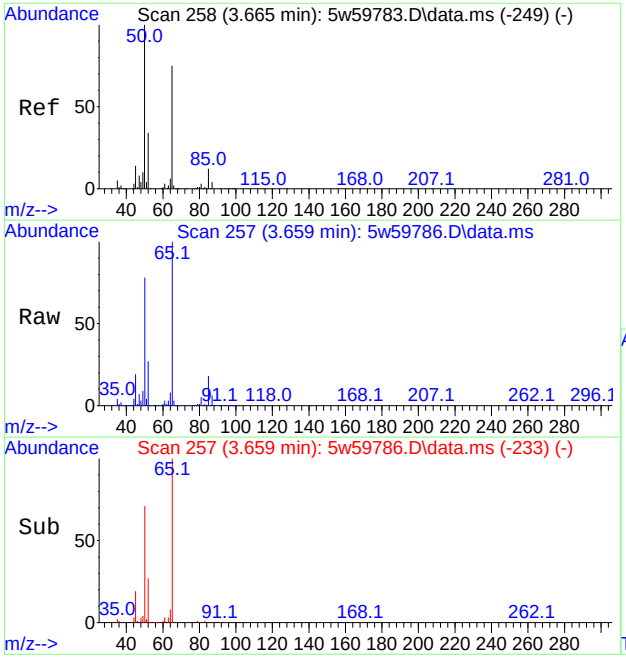


#9
FREON 114
Concen: 28.55 PPBV
RT: 3.726 min Scan# 268
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 5332552

Ion	Ratio	Lower	Upper
85	100		
135	74.3	40.5	100.5
87	33.9	3.0	63.0

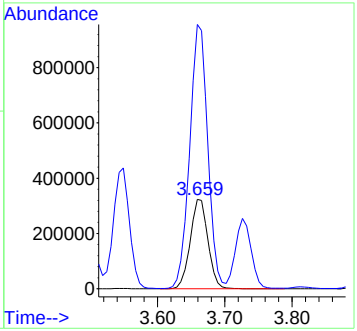


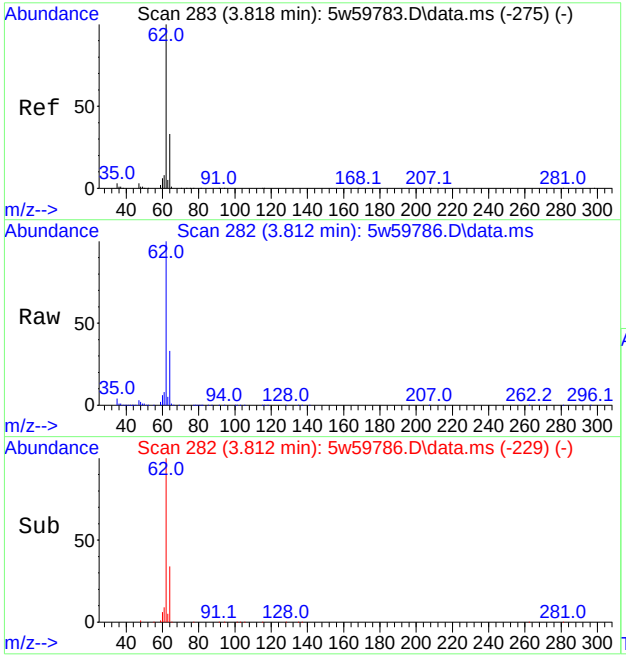


#10
CHLOROMETHANE
Concen: 28.33 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 593159

Ion	Ratio	Lower	Upper
52	100		
50	295.1	267.9	327.9

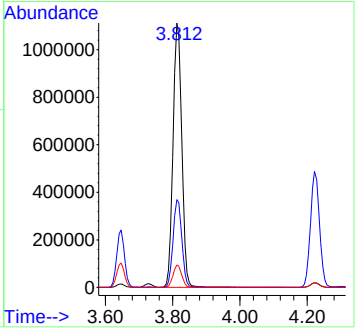


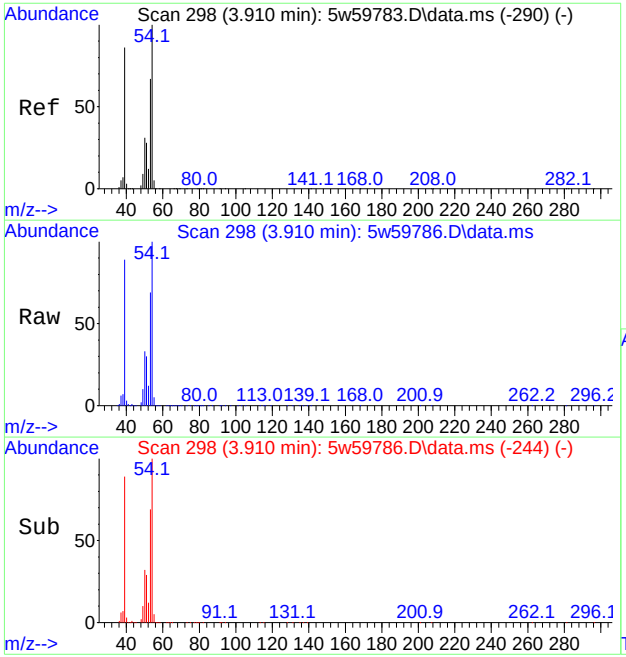


#11
VINYL CHLORIDE
Concen: 28.44 PPBV
RT: 3.812 min Scan# 282
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 2006744

Ion	Ratio	Lower	Upper
62	100		
64	33.3	3.6	63.6
61	8.4	0.0	38.2

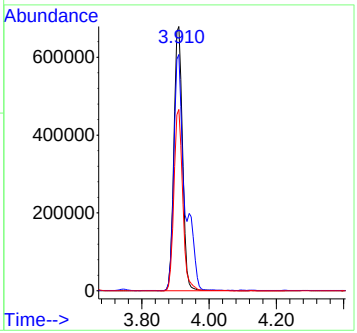


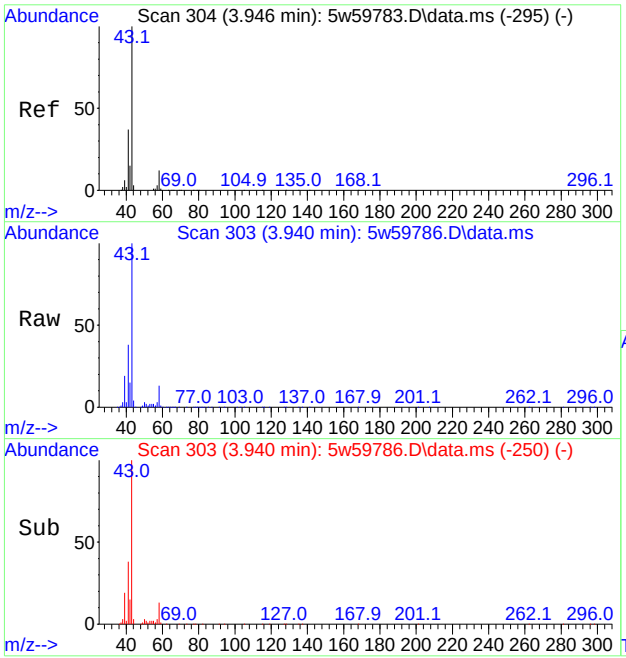


#12
1,3-BUTADIENE
Concen: 27.81 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 54 Resp: 1201486

Ion	Ratio	Lower	Upper
54	100		
39	114.6	82.0	142.0
53	70.5	40.2	100.2

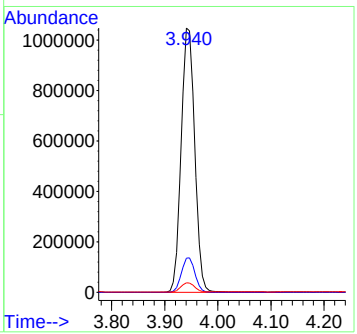


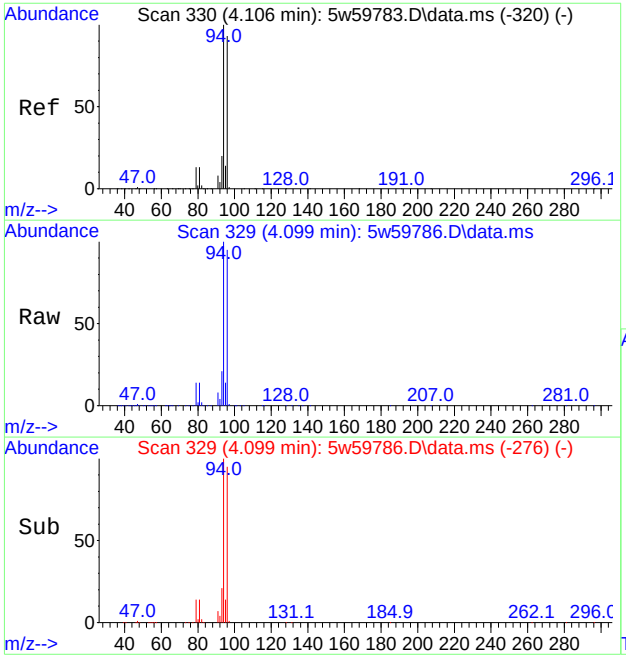


#13
n-BUTANE
Concen: 24.94 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 1865429

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.8	0.0	34.9

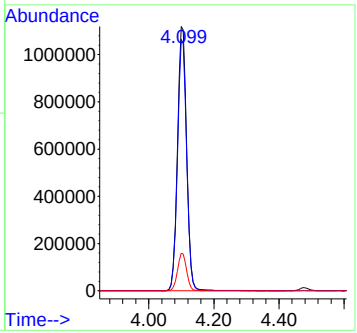


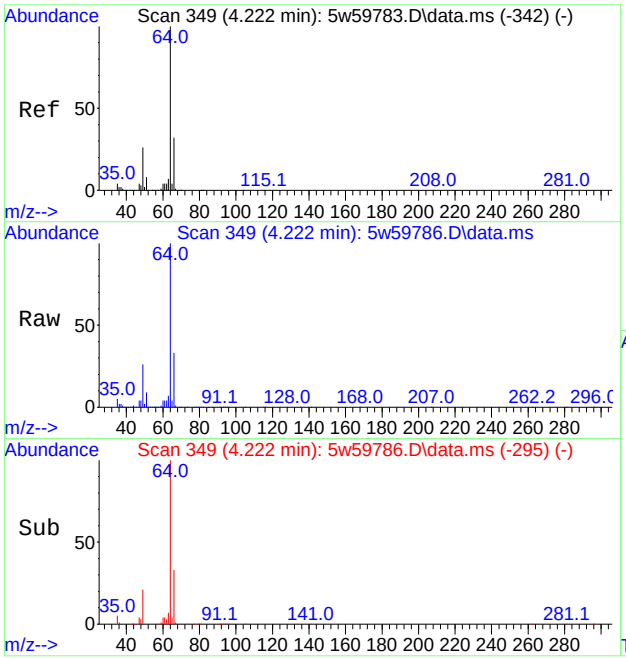


#14
BROMOMETHANE
Concen: 30.01 PPBV
RT: 4.099 min Scan# 329
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 94 Resp: 2201552

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

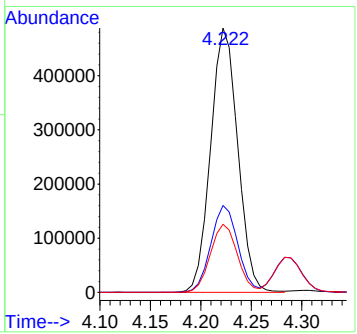


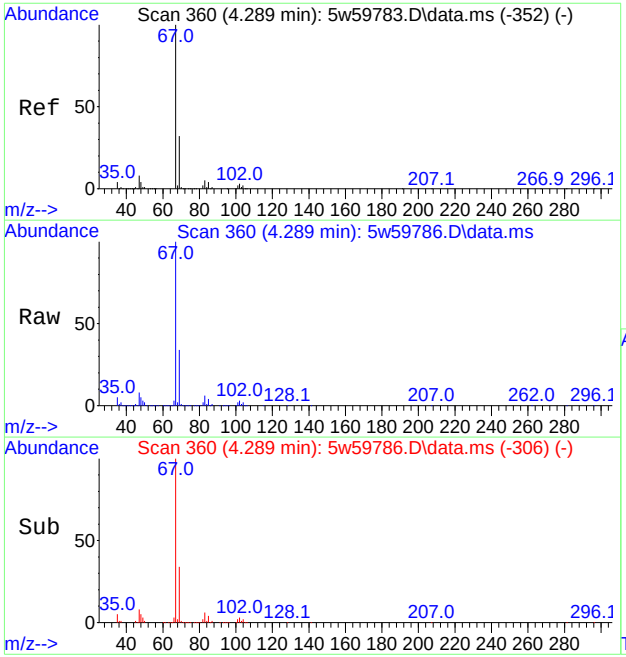


#15
CHLOROETHANE
Concen: 29.04 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 64 Resp: 910647

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

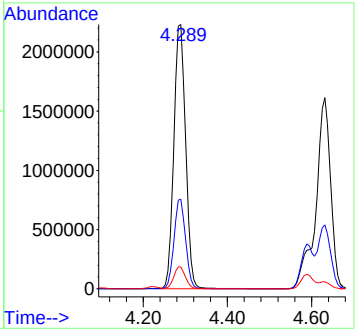


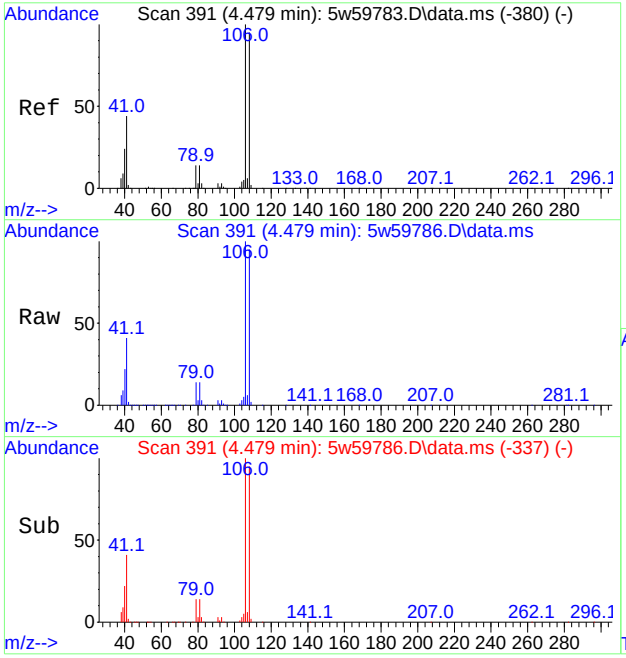


#16
DICHLOROFLUOROMETHANE
Concen: 28.26 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 4344933

Ion	Ratio	Lower	Upper
67	100		
69	33.4	22.7	42.3
47	8.3	5.6	10.4

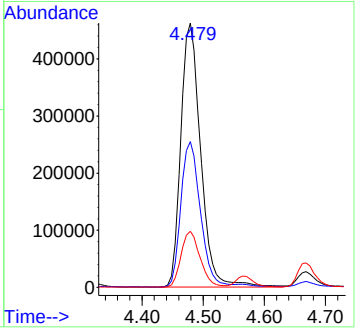


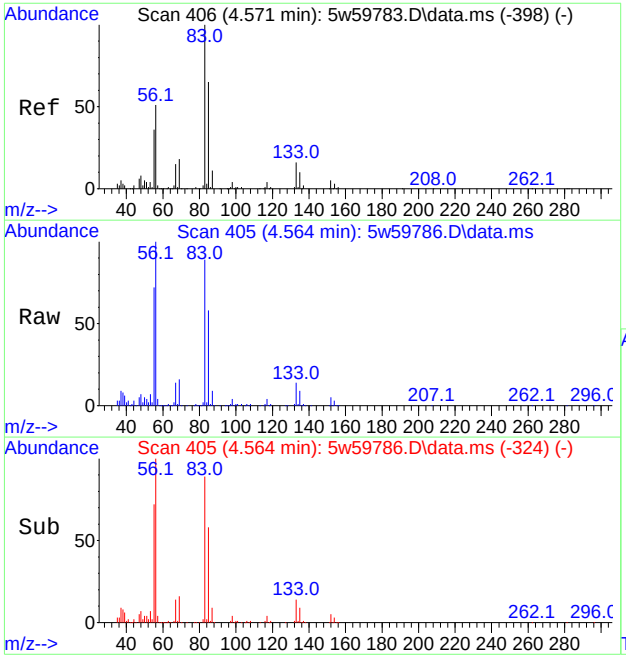


#17
ACETONITRILE
Concen: 24.43 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1047676

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

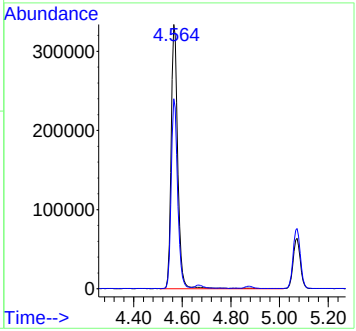


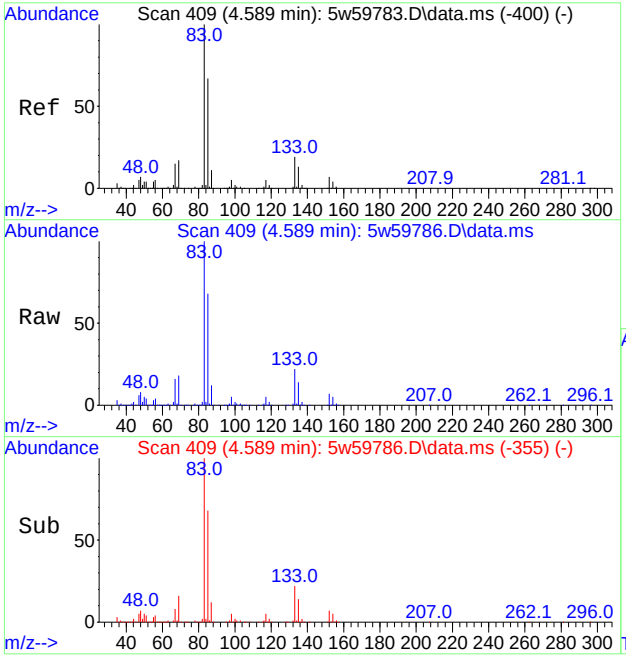


#18
ACROLEIN
Concen: 24.71 PPBV
RT: 4.564 min Scan# 405
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 56 Resp: 630972

Ion	Ratio	Lower	Upper
56	100		
55	70.2	46.6	86.6

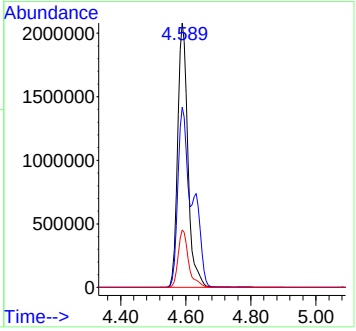


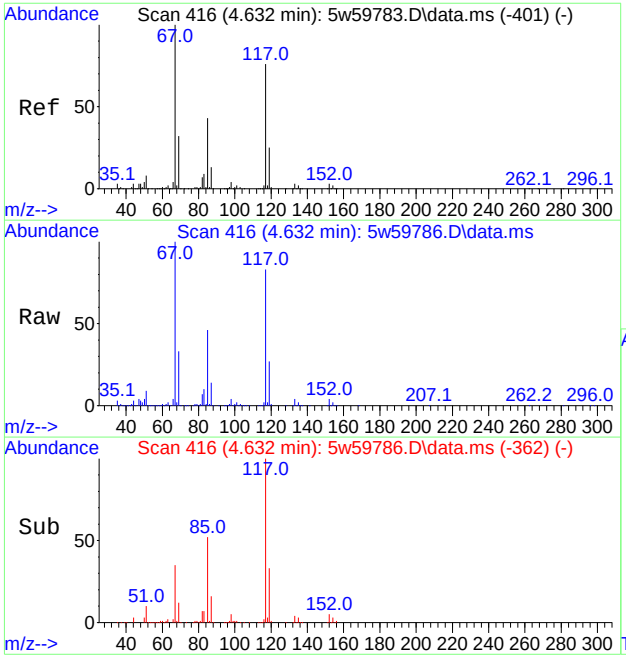


#19
FREON 123
Concen: 27.57 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 4570353

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	22.3	0.0	50.7

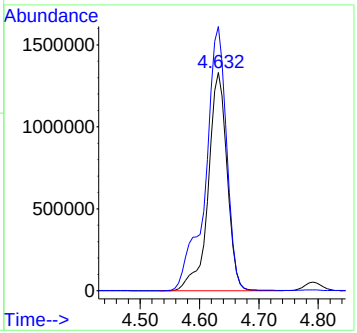


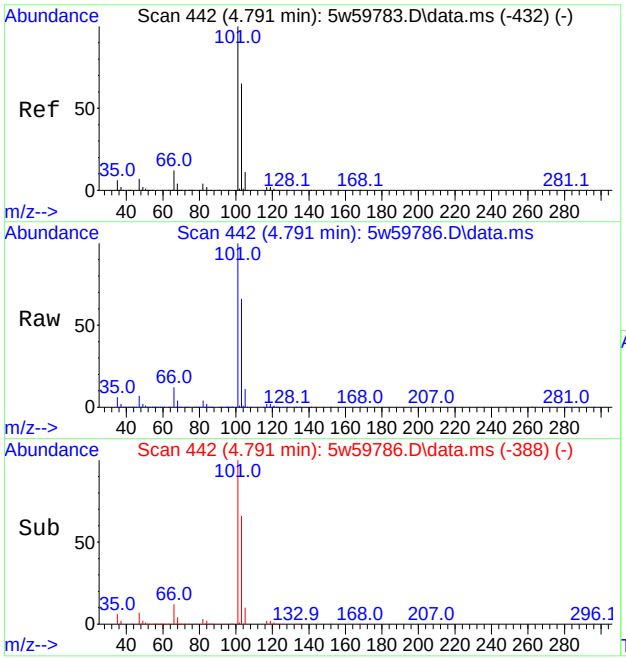


#20
FREON 123A
Concen: 29.40 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 2921341

Ion	Ratio	Lower	Upper
117	100		
67	135.7	114.6	174.6

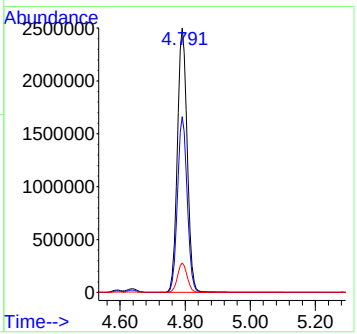


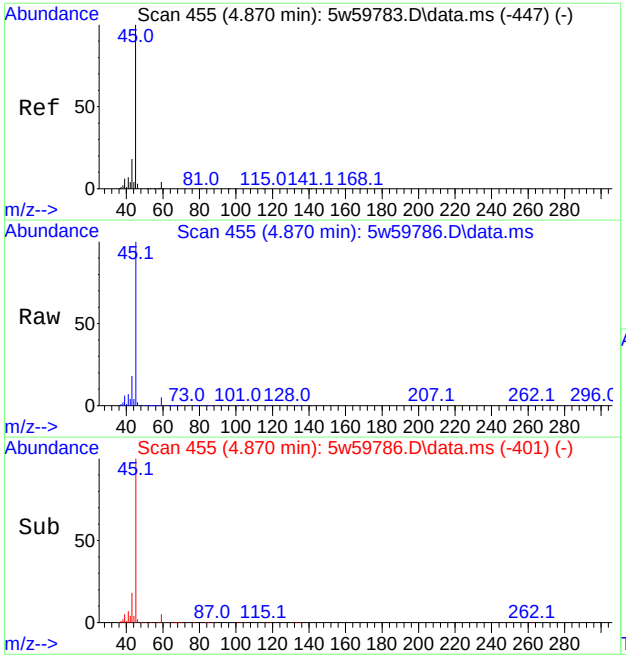


#21
TRICHLOROFLUOROMETHANE
Concen: 26.51 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:101 Resp: 5263086

Ion	Ratio	Lower	Upper
101	100		
103	65.9	35.0	95.0
105	11.0	0.0	40.7

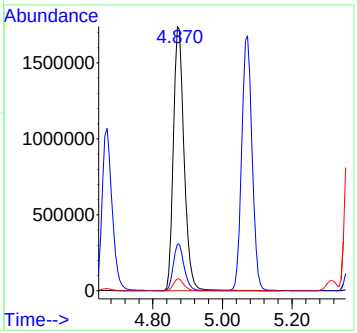


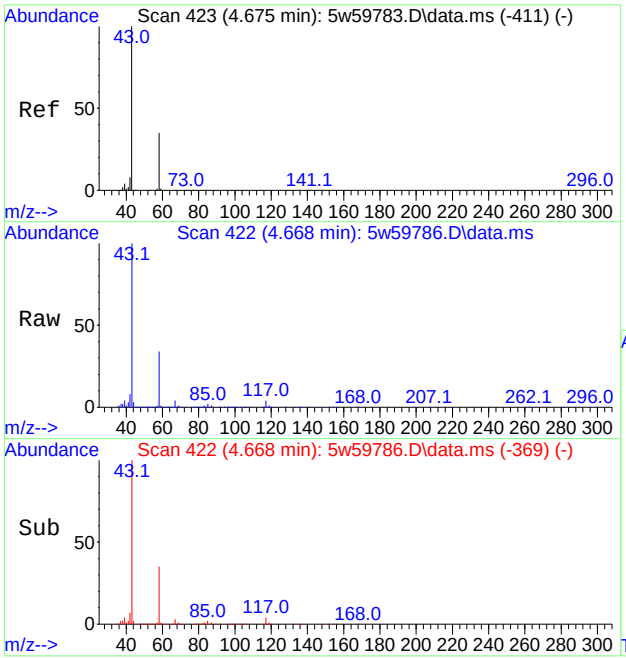


#22
ISOPROPYL ALCOHOL
Concen: 25.25 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 3712437

Ion	Ratio	Lower	Upper
45	100		
43	17.7	0.0	47.8
59	4.6	0.0	34.1

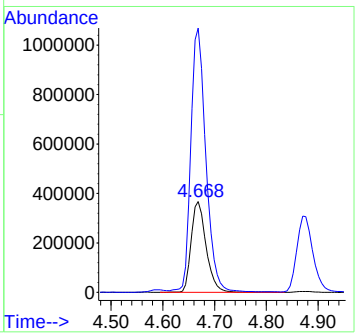


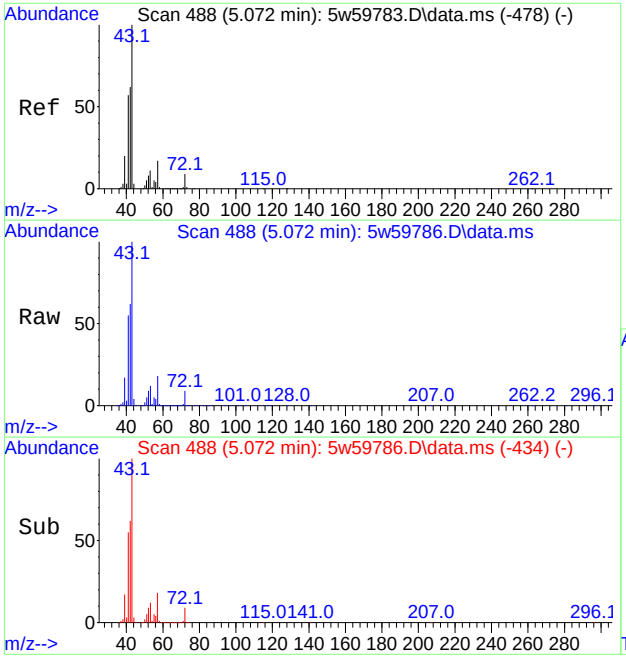


#23
ACETONE
Concen: 25.68 PPBV
RT: 4.668 min Scan# 422
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 738868

Ion	Ratio	Lower	Upper
58	100		
43	289.9	252.3	312.3

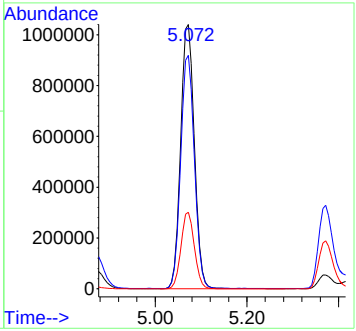


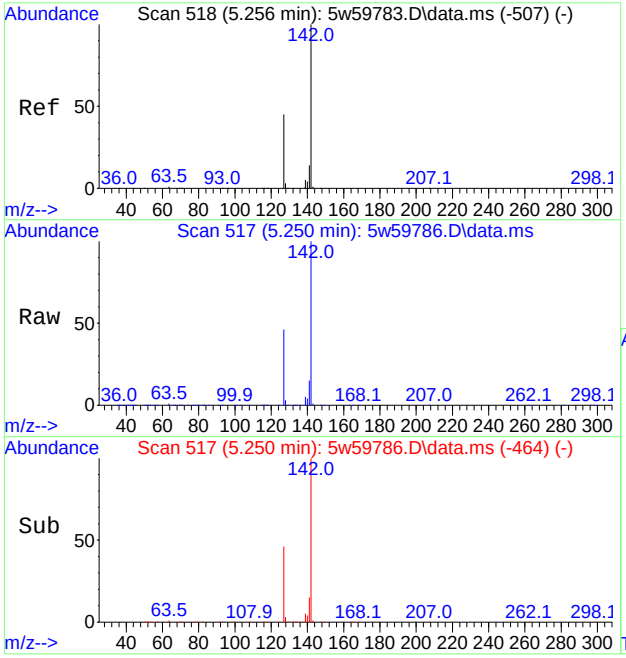


#24
PENTANE
Concen: 29.26 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 42 Resp: 2159289

Ion	Ratio	Lower	Upper
42	100		
41	88.6	62.3	122.3
57	28.5	0.0	57.7

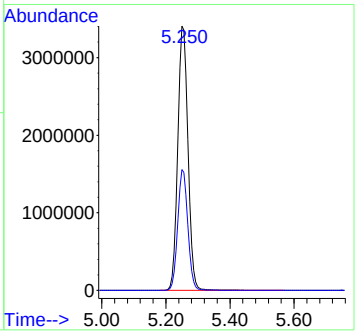


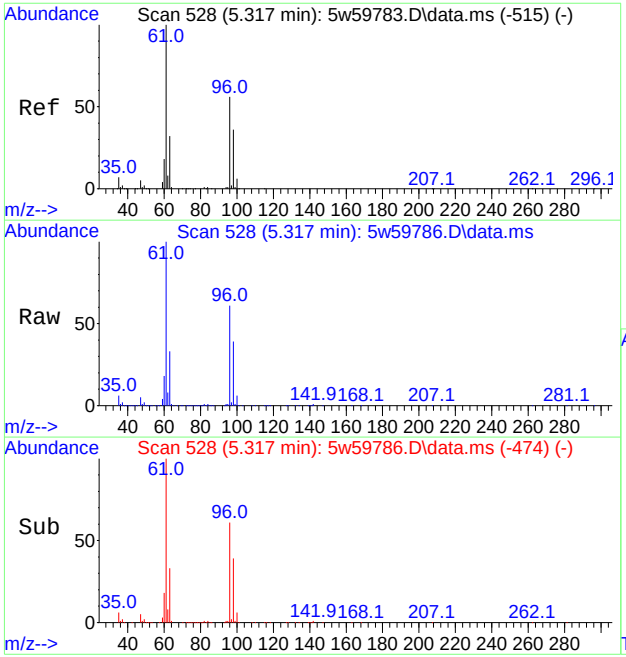


#25
IODOMETHANE
Concen: 35.46 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:142 Resp: 7543155

Ion	Ratio	Lower	Upper
142	100		
127	45.2	16.0	76.0

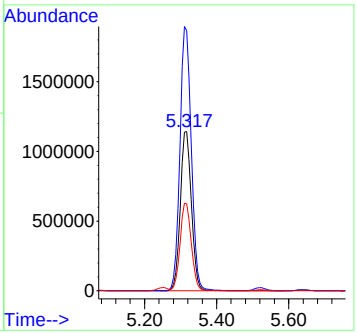


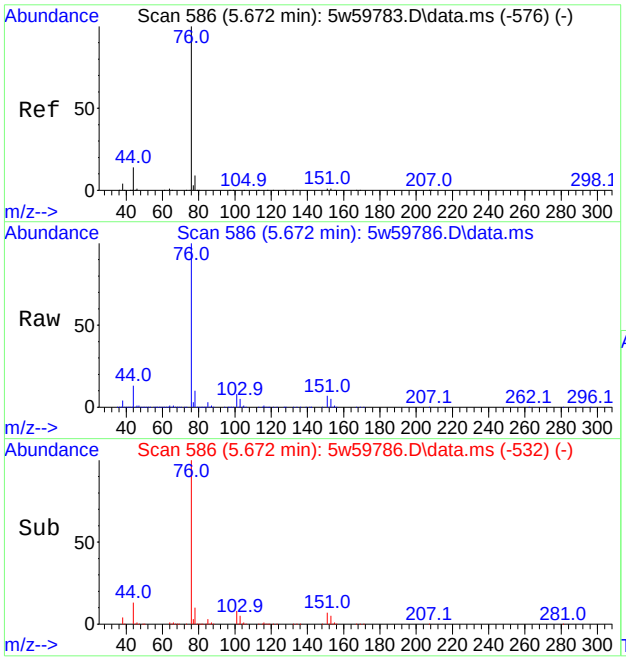


#26
1,1-DICHLOROETHYLENE
Concen: 33.22 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2443503

Ion	Ratio	Lower	Upper
96	100		
61	169.6	148.5	208.5
63	55.5	27.4	87.4

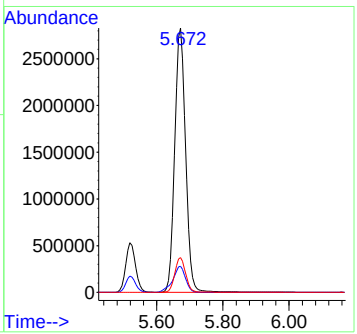


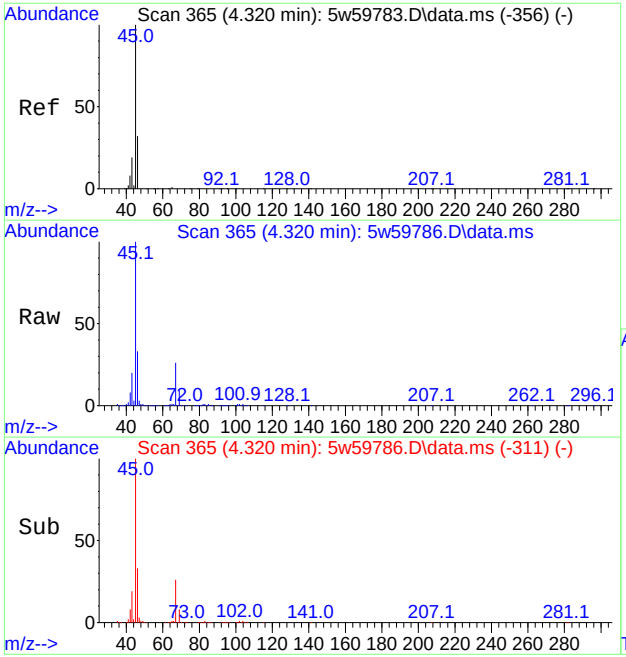


#27
CARBON DISULFIDE
Concen: 33.10 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 6480951

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.1	0.0	44.6

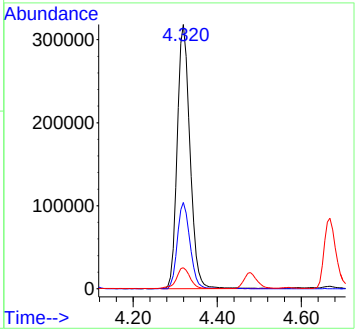


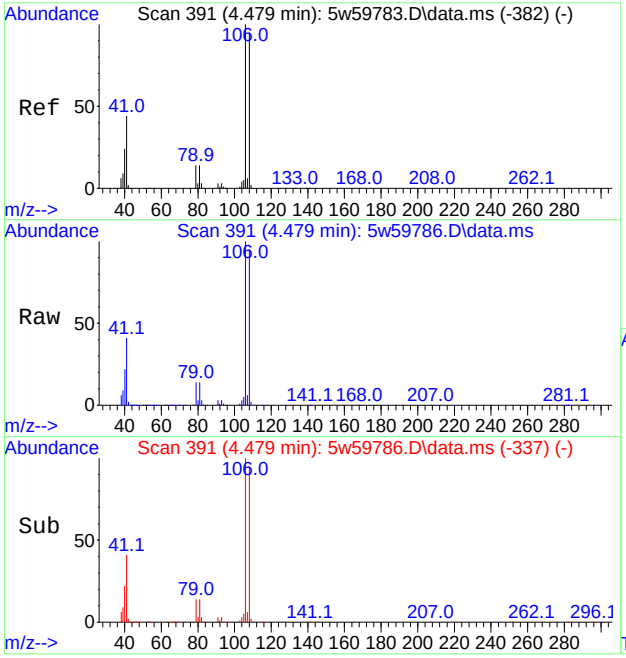


#28
ETHANOL
Concen: 25.13 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 668282

Ion	Ratio	Lower	Upper
45	100		
46	32.6	2.0	62.0
42	8.5	0.0	38.5

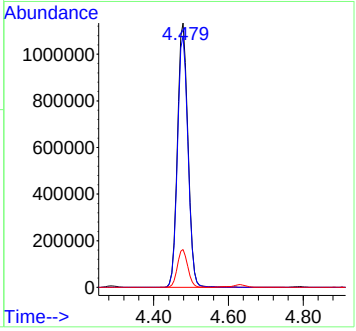


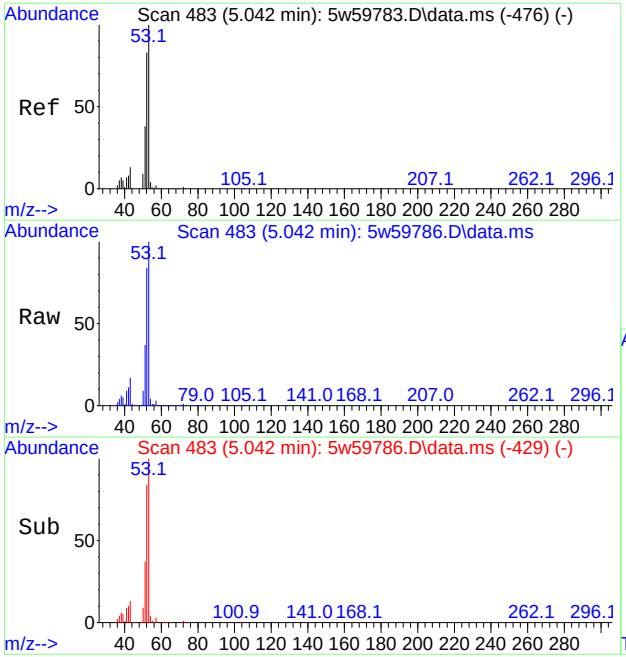


#29
BROMOETHENE
Concen: 32.02 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 2216899

Ion	Ratio	Lower	Upper
106	100		
108	95.4	65.6	125.6
81	14.3	0.0	43.9

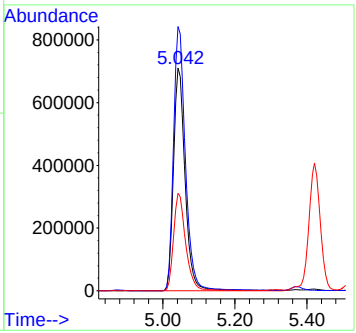


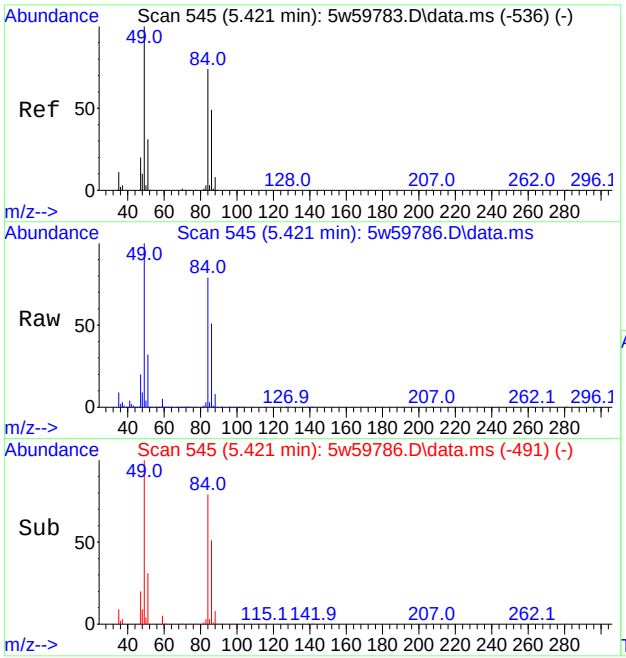


#30
ACRYLONITRILE
Concen: 34.08 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 1601584

Ion	Ratio	Lower	Upper
52	100		
53	121.7	85.8	159.4
51	45.3	32.3	60.1

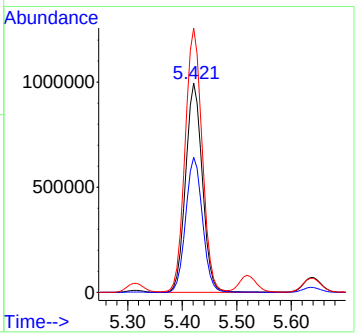


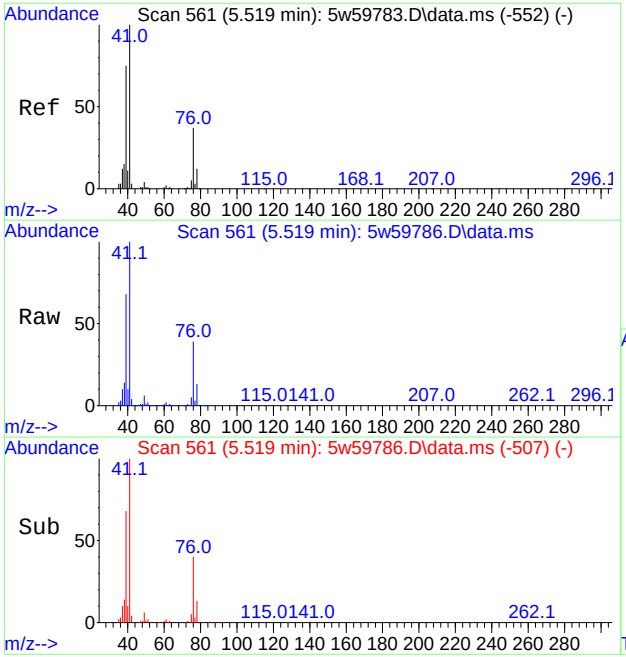


#31
METHYLENE CHLORIDE
Concen: 32.13 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2117266

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	128.7	105.3	165.3

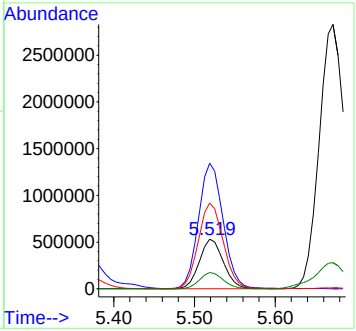


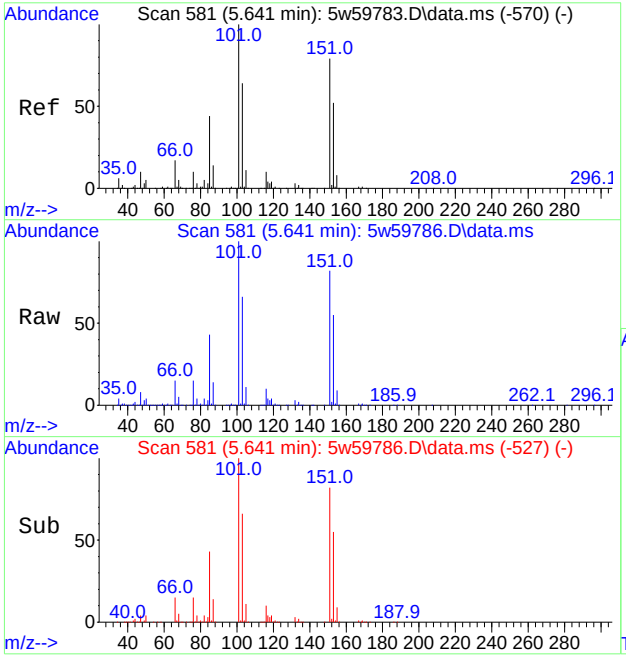


#32
3-CHLOROPROPENE
Concen: 35.87 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 1102190

Ion	Ratio	Lower	Upper
76	100		
41	259.8	240.8	300.8
39	178.8	173.6	233.6
78	32.8	2.8	62.8

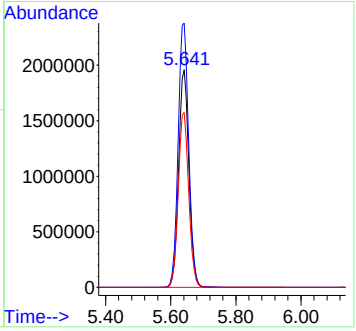


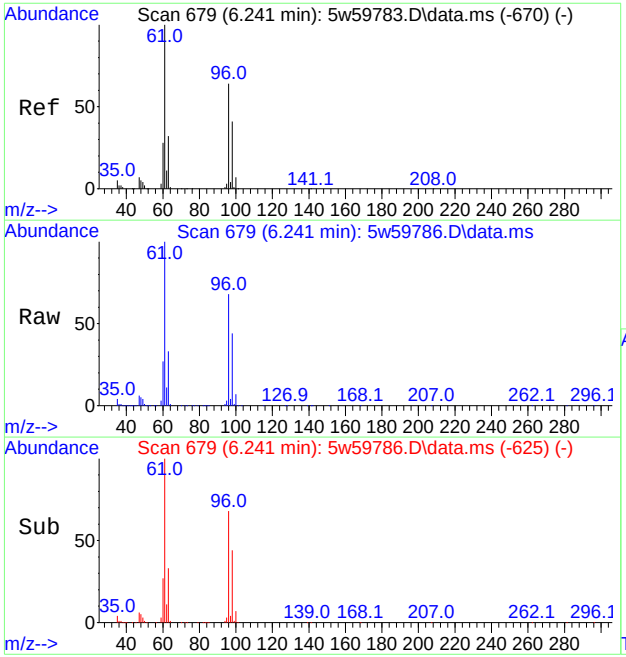


#33
FREON 113
Concen: 33.71 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:151 Resp: 4335347

Ion	Ratio	Lower	Upper
151	100		
101	124.7	97.5	157.5
103	81.6	52.5	112.5

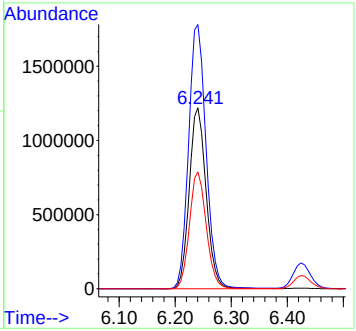


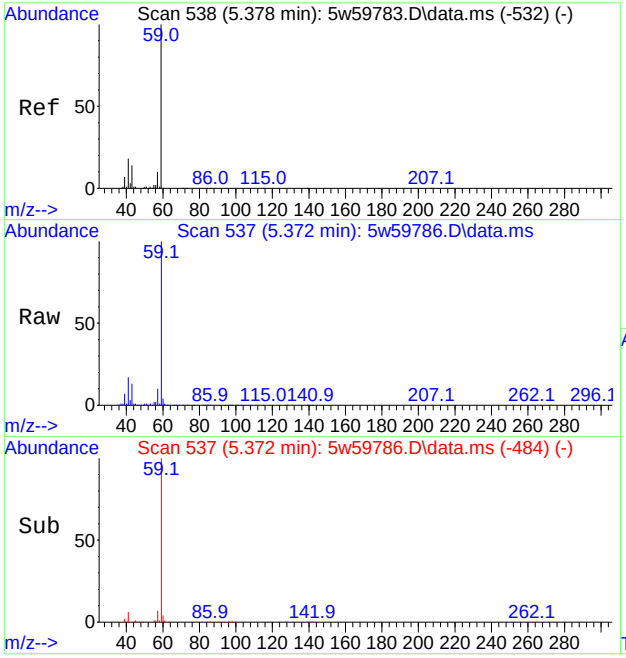


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 33.70 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2566855

Ion	Ratio	Lower	Upper
96	100		
61	150.4	126.4	186.4
98	64.4	34.1	94.1

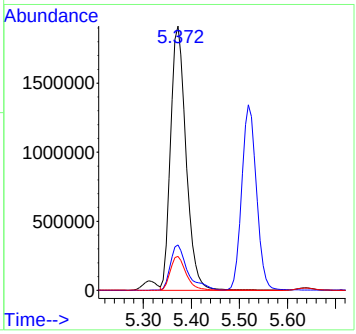


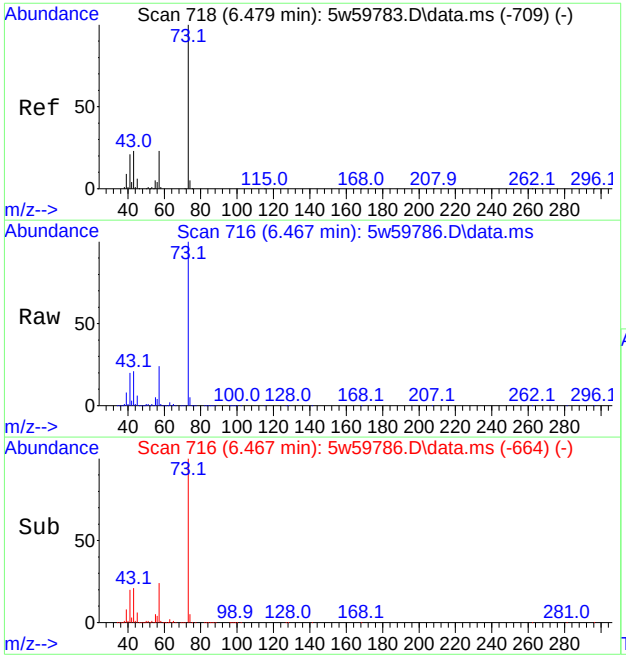


#35
TERTIARY BUTYL ALCOHOL
Concen: 27.79 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 4270952

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.2	0.0	44.1

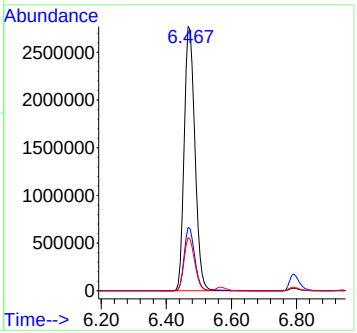


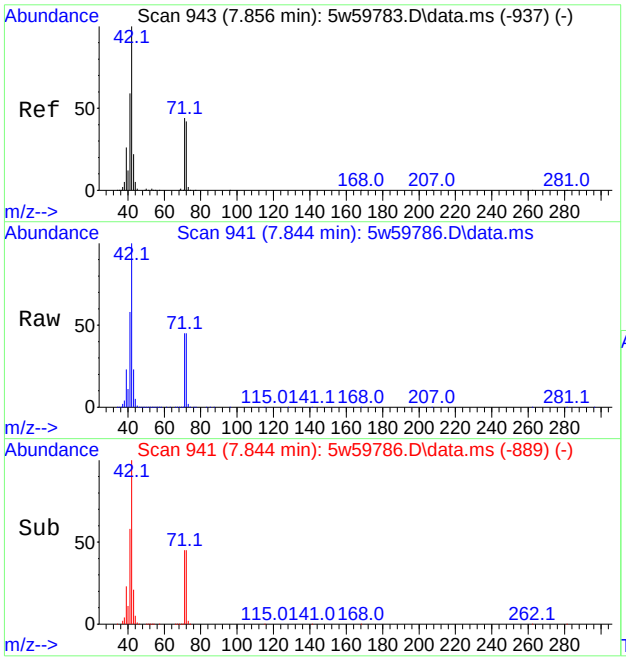


#36
METHYL TERTIARY BUTYL ETHER
Concen: 33.80 PPBV
RT: 6.467 min Scan# 716
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 73 Resp: 6337595

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	20.0	0.0	50.6

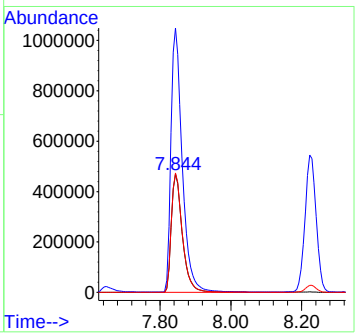


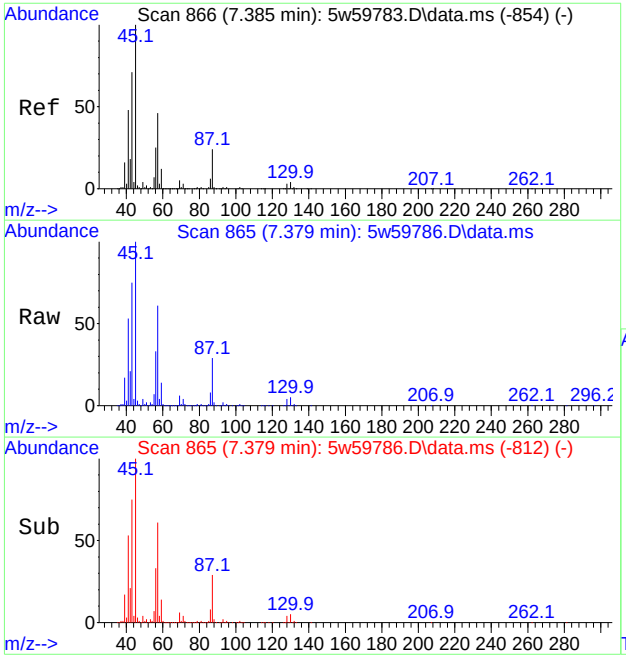


#37
TETRAHYDROFURAN
Concen: 37.42 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1023793

Ion	Ratio	Lower	Upper
72	100		
42	225.7	202.4	262.4
71	100.8	71.1	131.1

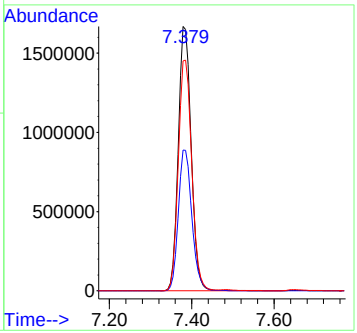


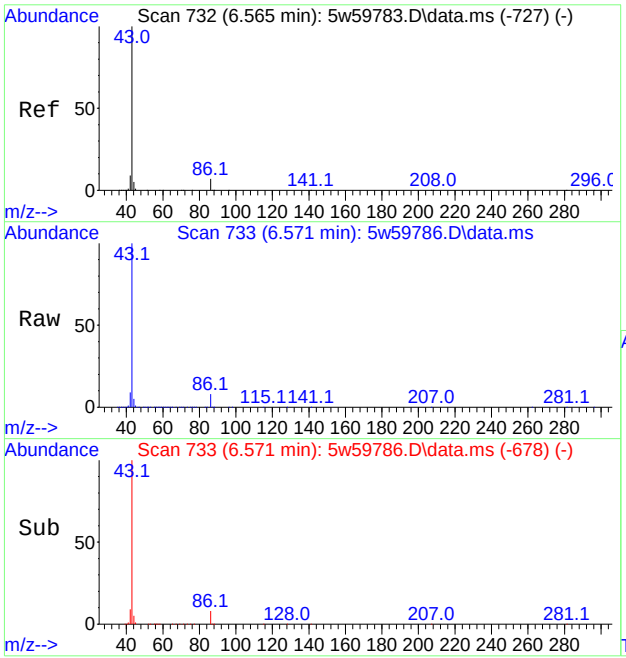


#38
HEXANE
Concen: 34.89 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 3623516

Ion	Ratio	Lower	Upper
57	100		
56	56.2	25.9	85.9
41	91.2	74.7	134.7

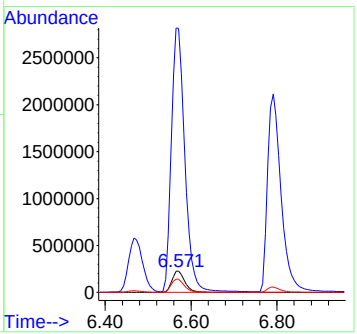


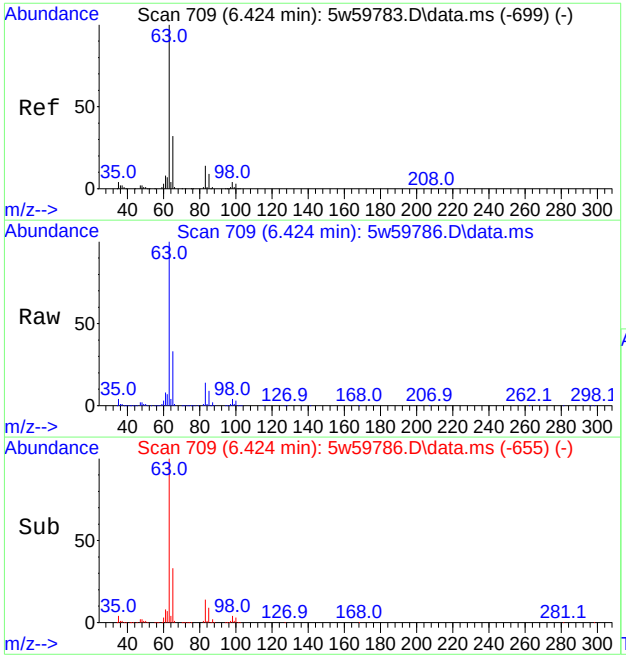


#39
VINYL ACETATE
Concen: 39.37 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 86 Resp: 477066

Ion	Ratio	Lower	Upper
86	100		
43	1285.9	1379.7	1439.7#
44	63.4	36.9	96.9

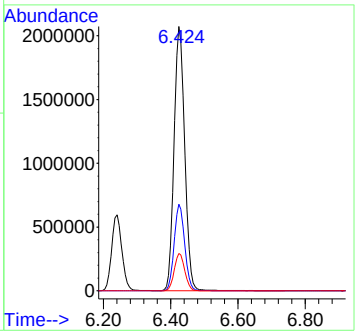


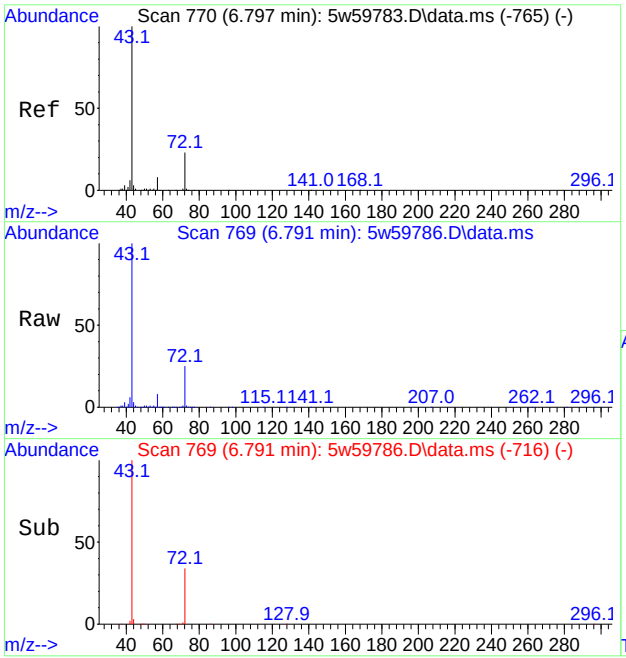


#40
1,1-DICHLOROETHANE
Concen: 33.30 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 4545260

Ion	Ratio	Lower	Upper
63	100		
65	32.4	1.7	61.7
83	13.9	0.0	43.5

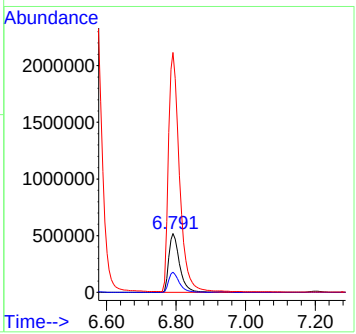


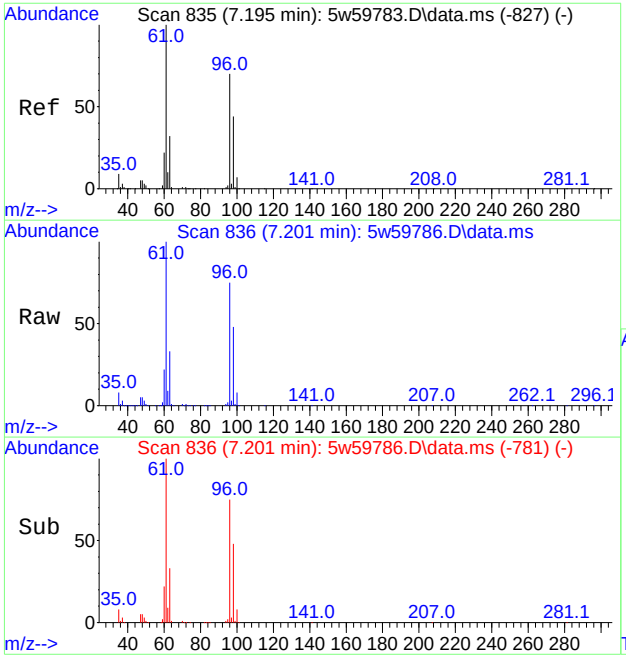


#41
METHYL ETHYL KETONE
Concen: 39.33 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1116320

Ion	Ratio	Lower	Upper
72	100		
57	34.3	4.8	64.8
43	407.4	415.9	475.9#

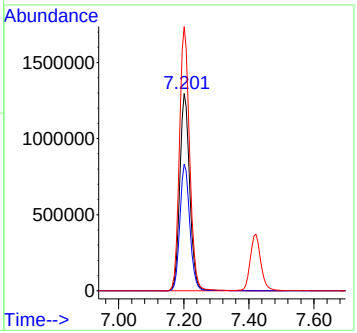


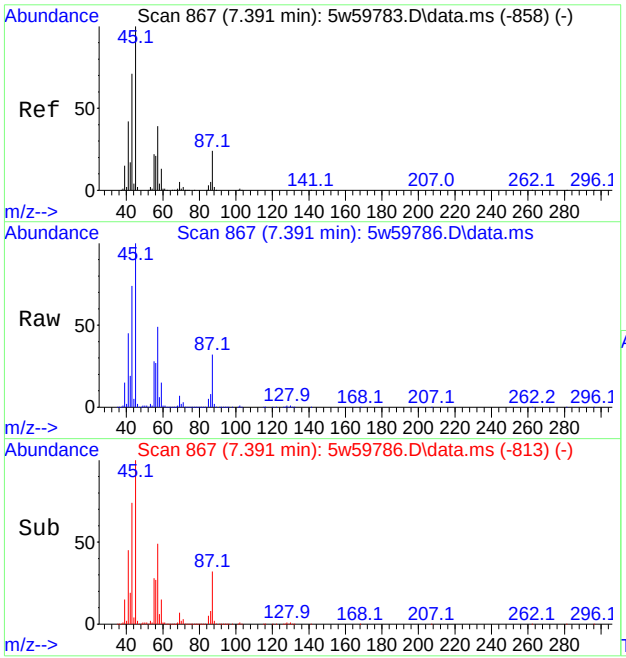


#42
cis-1,2-DICHLOROETHYLENE
Concen: 35.23 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2772689

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	136.2	111.5	171.5

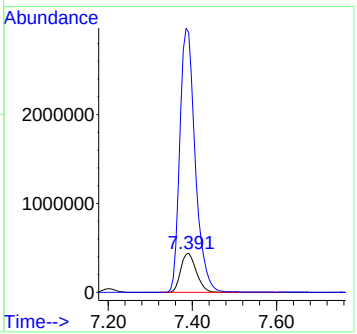


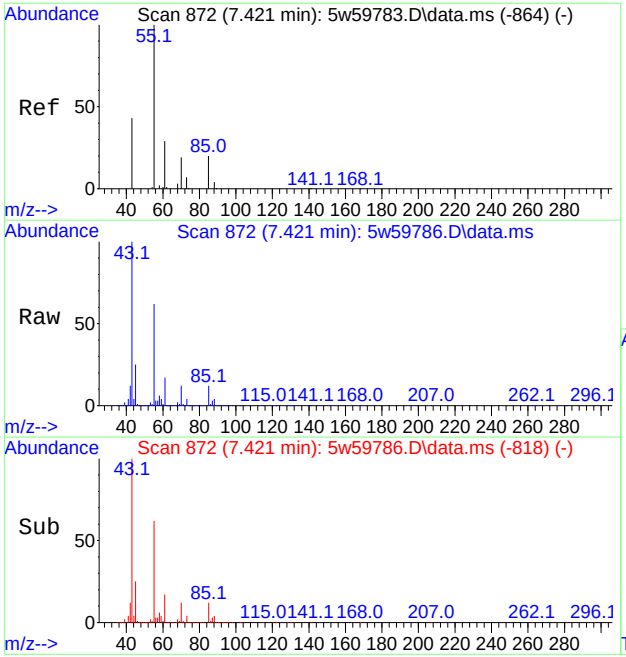


#43
DIISOPROPYL ETHER
Concen: 38.69 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 1134199

Ion	Ratio	Lower	Upper
59	100		
45	668.8	720.9	780.9#

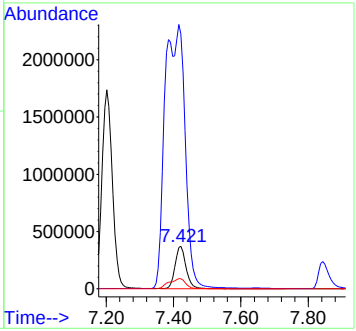


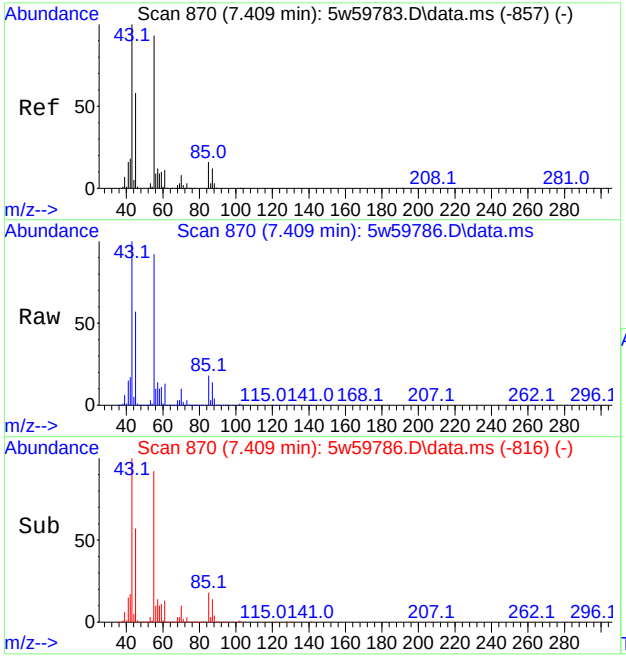


#44
ETHYL ACETATE
Concen: 34.91 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 61 Resp: 845012

Ion	Ratio	Lower	Upper
61	100		
43	618.0	560.5	620.5
88	37.0	4.5	64.5

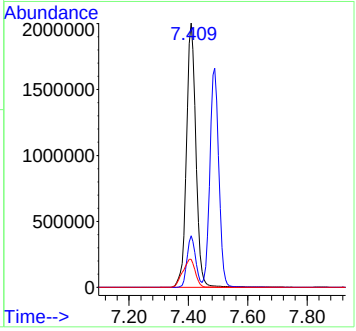


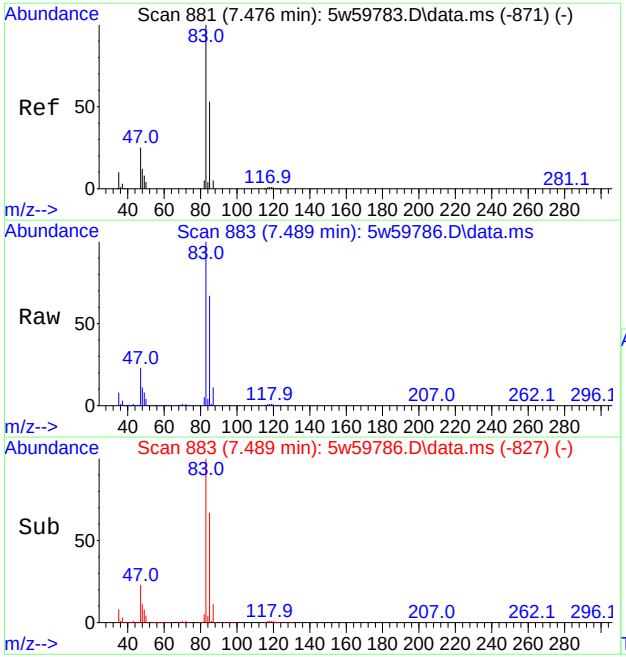


#45
METHYL ACRYLATE
Concen: 33.33 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 4442118

Ion	Ratio	Lower	Upper
55	100		
85	17.9	10.9	20.3
58	14.3	9.4	17.6

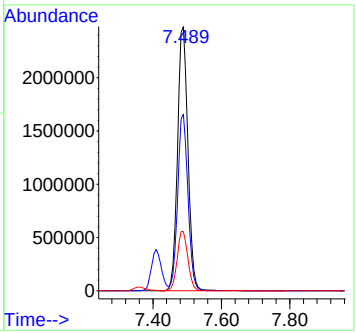


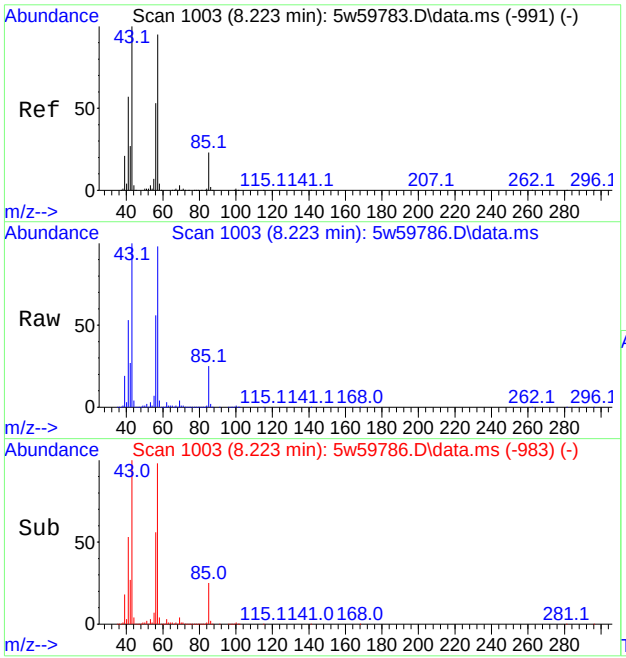


#46
CHLOROFORM
Concen: 33.15 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 5265891

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.6	95.6
47	23.1	0.0	55.2

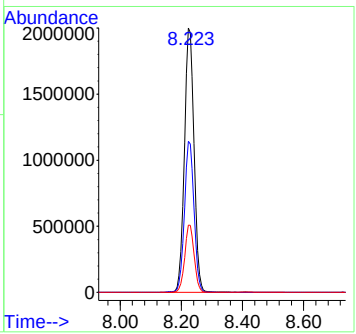


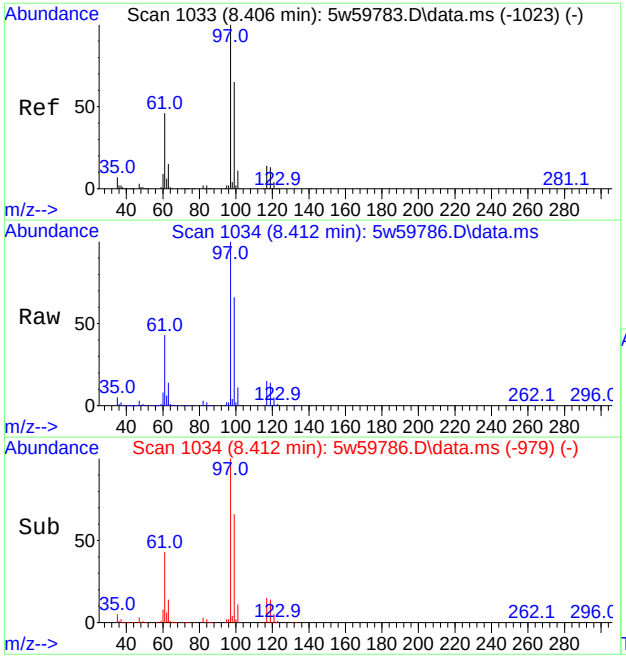


#47
2,4-DIMETHYLPENTANE
Concen: 35.95 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 4372372

Ion	Ratio	Lower	Upper
57	100		
56	57.3	26.5	86.5
85	25.1	0.0	53.8

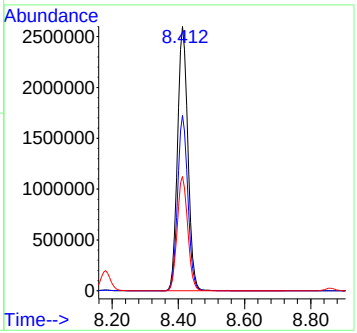


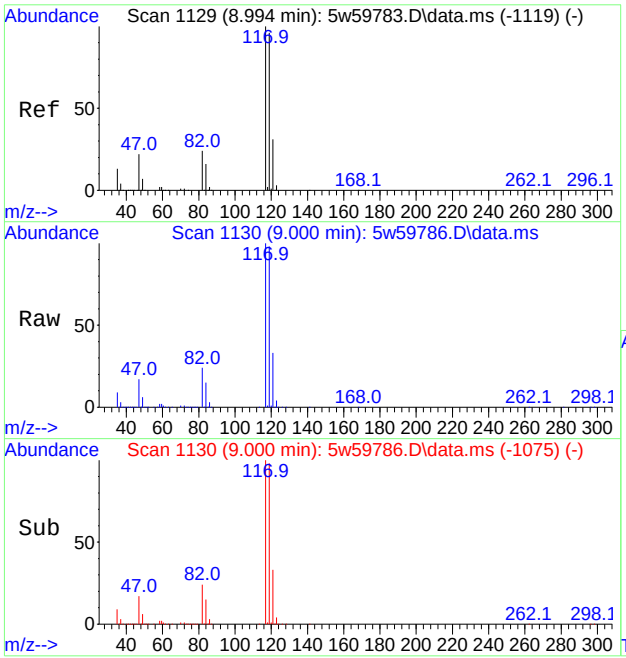


#48
1,1,1-TRICHLOROETHANE
Concen: 33.44 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 97 Resp: 5674011

Ion	Ratio	Lower	Upper
97	100		
99	65.7	34.8	94.8
61	43.9	15.8	75.8

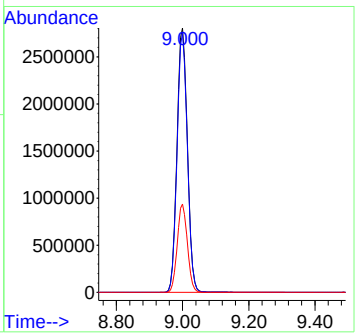


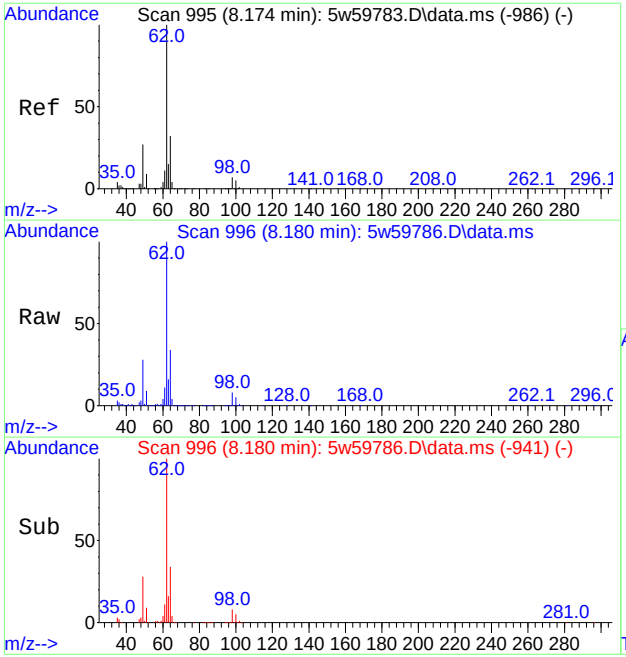


#49
CARBON TETRACHLORIDE
Concen: 33.09 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 6150579

Ion	Ratio	Lower	Upper
117	100		
119	97.1	66.9	126.9
121	32.6	1.3	61.3

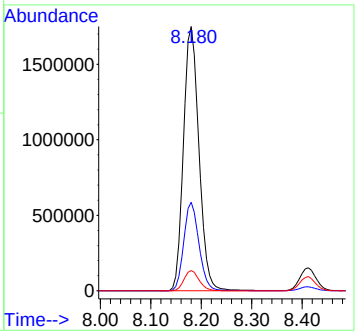


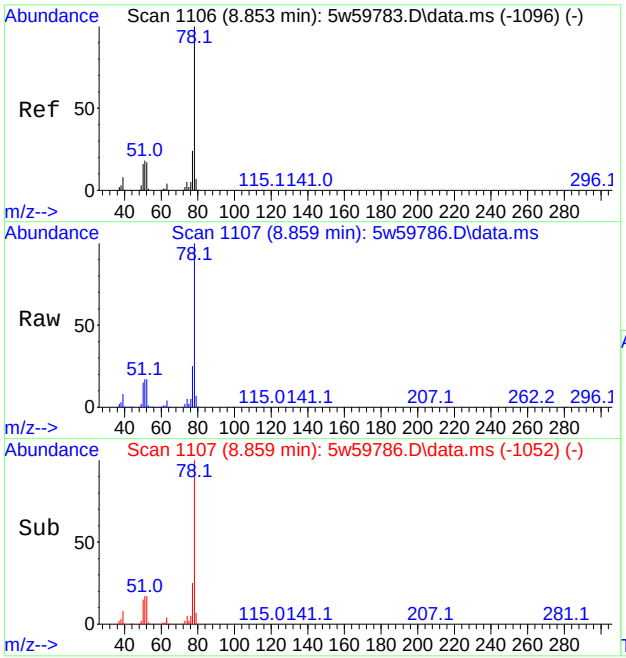


#50
1,2-DICHLOROETHANE
Concen: 33.65 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 3745660

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	7.5	0.0	36.9

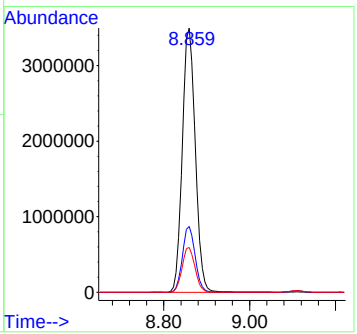


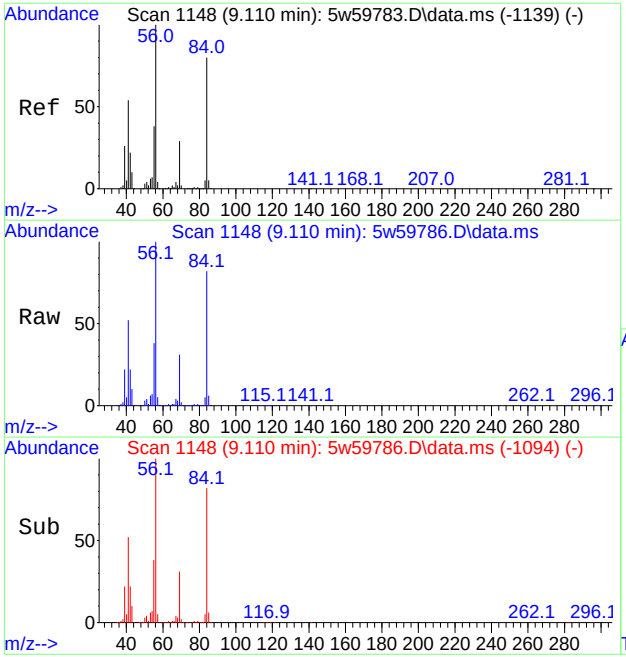


#52
BENZENE
Concen: 40.36 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 78 Resp: 7354311

Ion	Ratio	Lower	Upper
78	100		
77	24.5	0.0	53.8
52	17.0	0.0	46.9

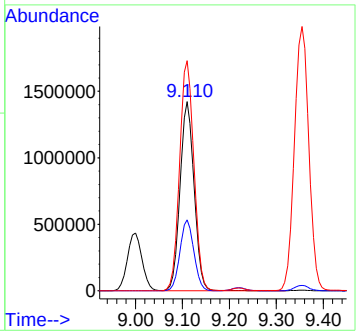


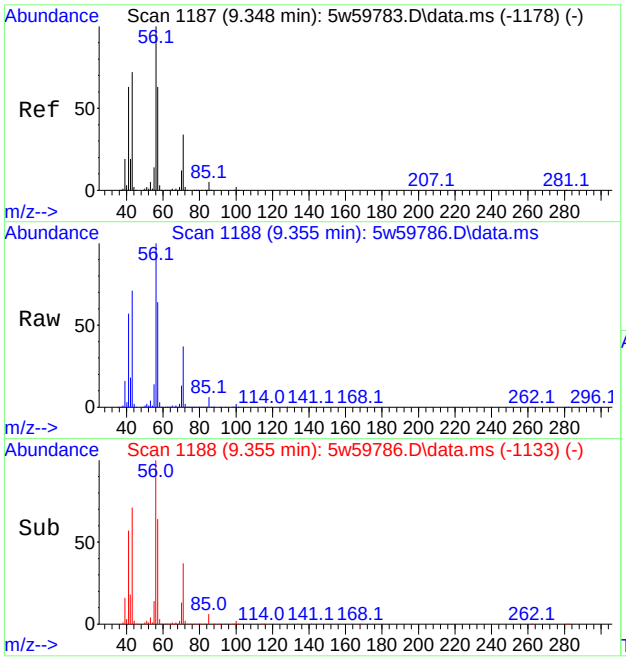


#53
CYCLOHEXANE
Concen: 40.67 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2949070

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	124.0	98.2	158.2

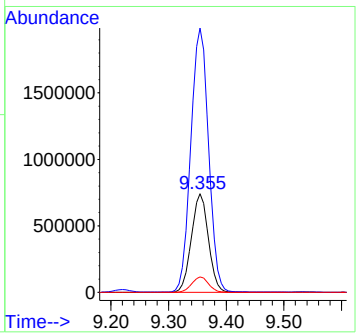


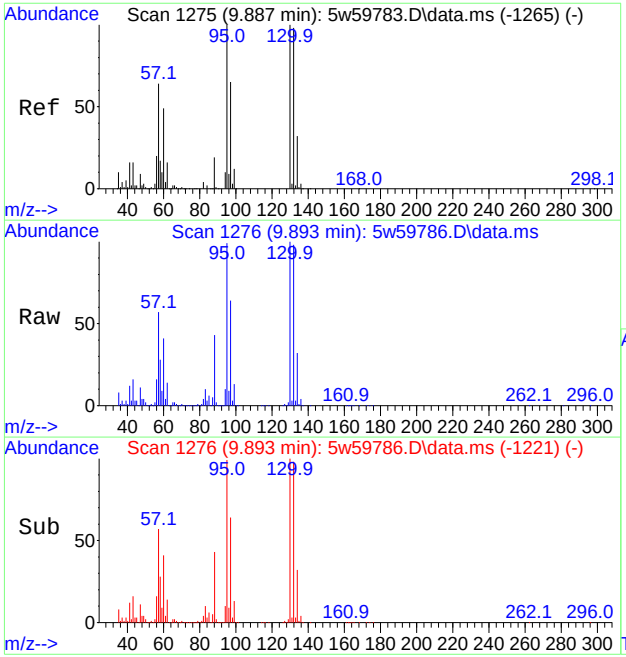


#54
2,3-DIMETHYLPENTANE
Concen: 42.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 71 Resp: 1522391

Ion	Ratio	Lower	Upper
71	100		
56	280.1	264.6	324.6
85	15.6	0.0	45.3

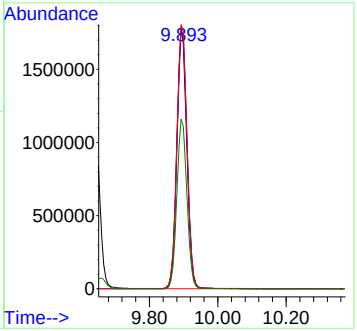


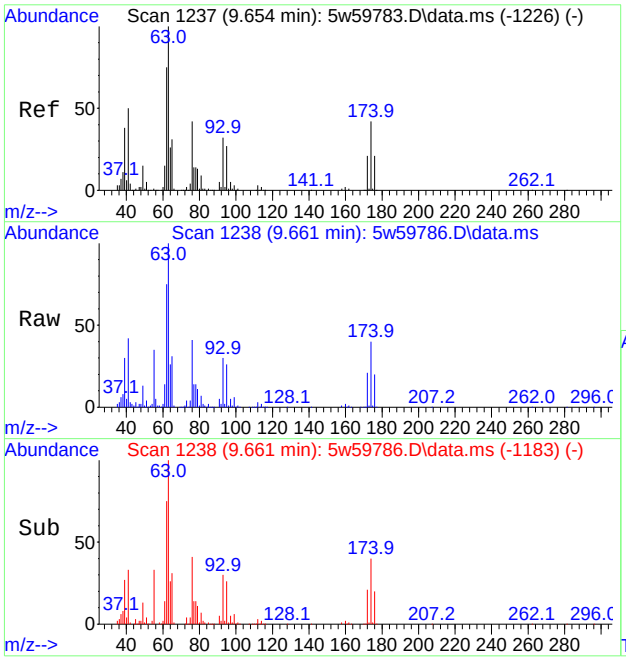


#55
TRICHLOROETHYLENE
Concen: 37.53 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 95 Resp: 3632086

Ion	Ratio	Lower	Upper
95	100		
132	100.6	69.0	129.0
130	103.1	70.6	130.6
97	65.4	34.6	94.6

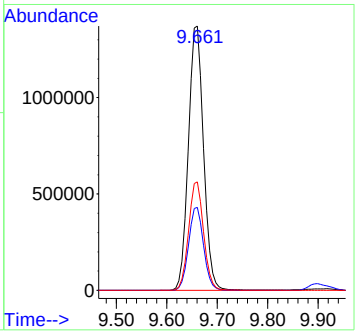


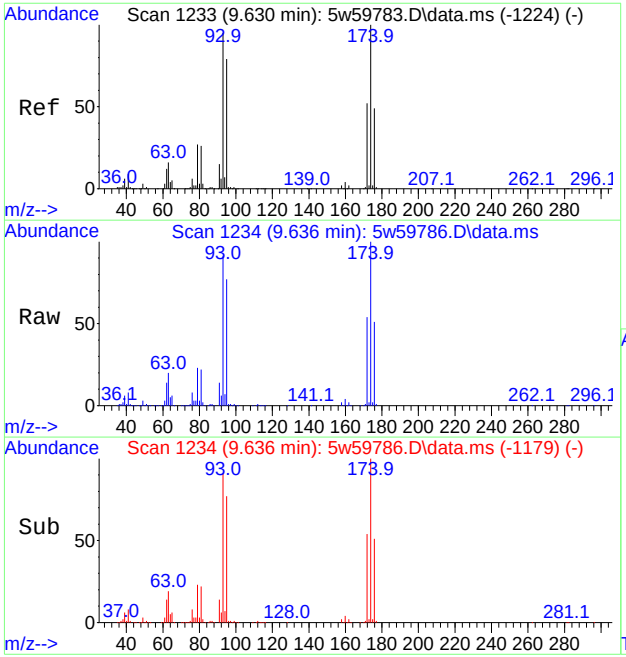


#56
1,2-DICHLOROPROPANE
Concen: 37.03 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 2868397

Ion	Ratio	Lower	Upper
63	100		
65	31.3	0.5	60.5
76	40.8	11.5	71.5

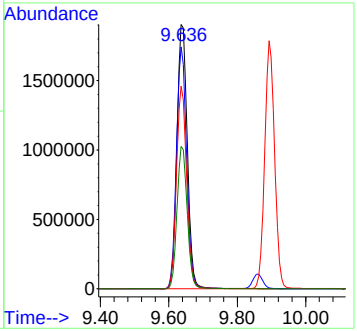


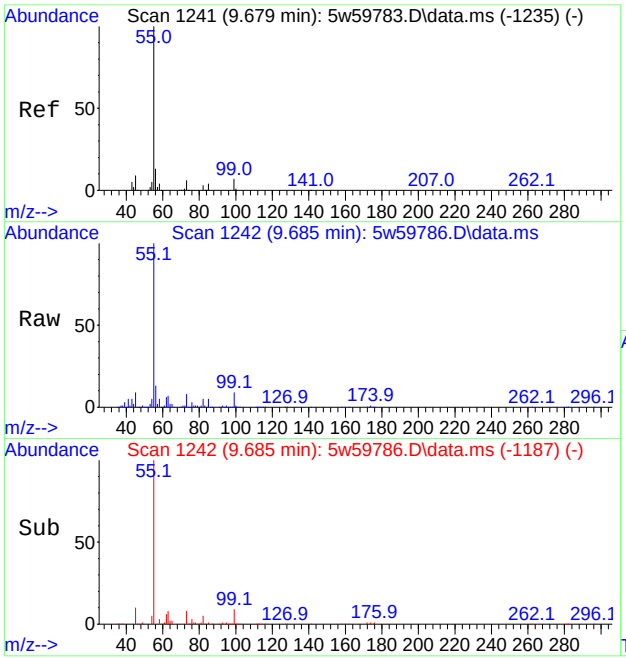


#57
DIBROMOMETHANE
Concen: 38.37 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:174 Resp: 4006214

Ion	Ratio	Lower	Upper
174	100		
93	90.3	65.0	120.6
95	75.8	54.5	101.1
172	53.2	36.3	67.5

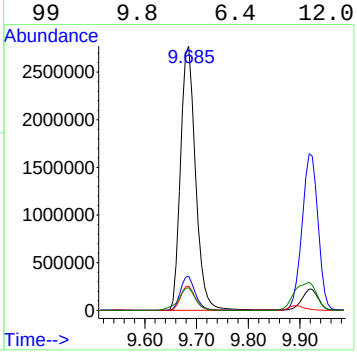


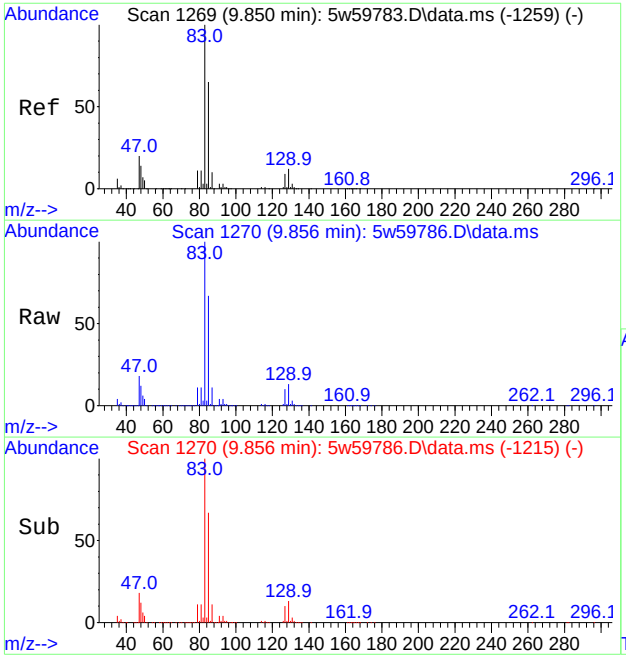


#58
ETHYL ACRYLATE
Concen: 37.54 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 5610538

Ion	Ratio	Lower	Upper
55	100		
56	12.7	8.6	16.0
45	9.0	6.6	12.2
99	9.8	6.4	12.0

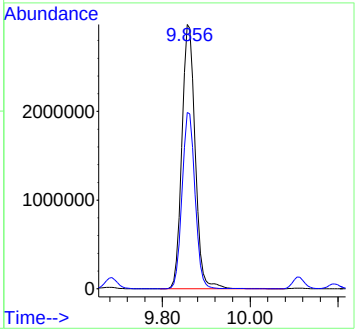


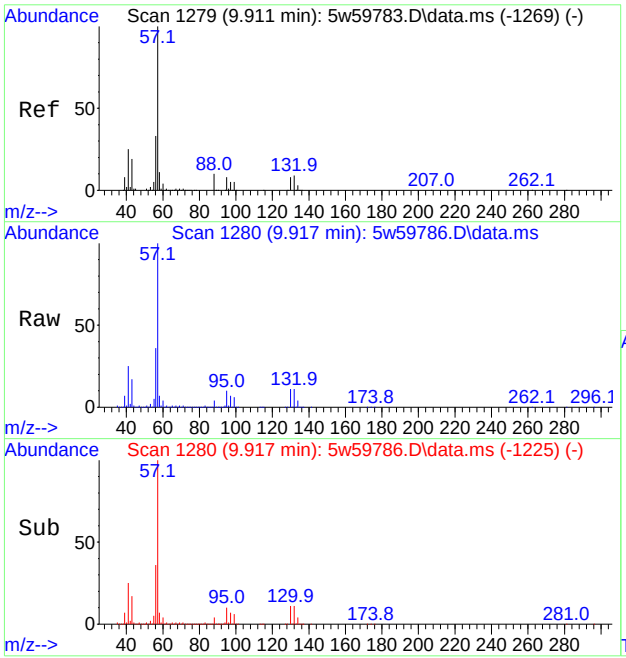


#59
BROMODICHLOROMETHANE
Concen: 37.04 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6264555

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

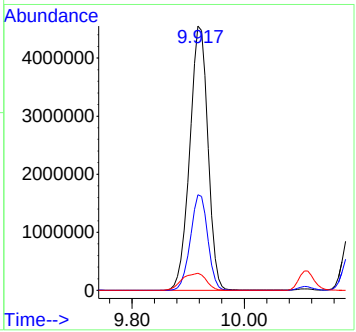


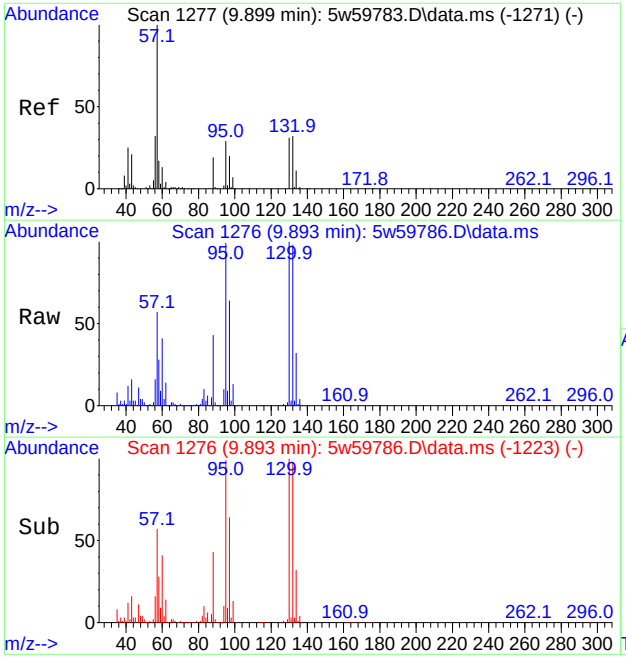


#60
2,2,4-TRIMETHYLPENTANE
Concen: 34.27 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp:10265949

Ion	Ratio	Lower	Upper
57	100		
56	34.3	2.5	62.5
99	8.6	0.0	37.3

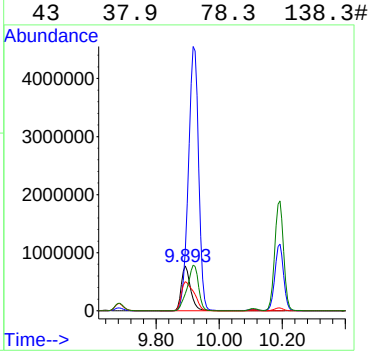


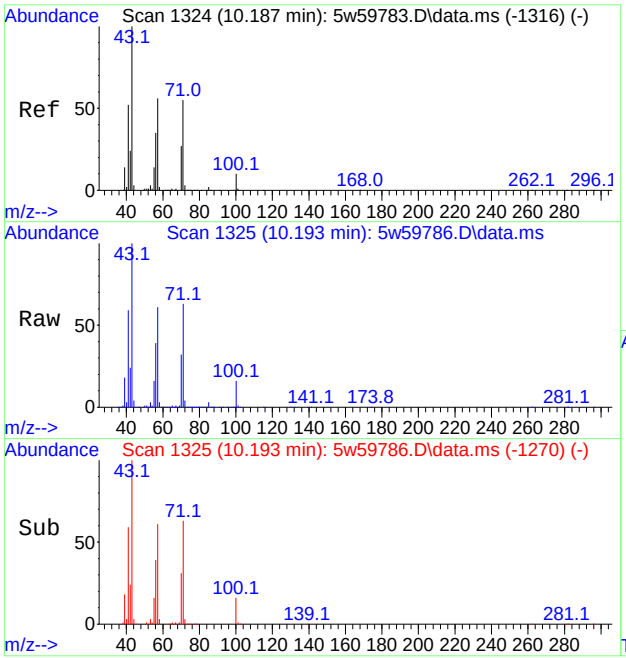


#61
1,4-DIOXANE
Concen: 39.31 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 88 Resp: 1571741

Ion	Ratio	Lower	Upper
88	100		
57	134.3	494.2	554.2#
58	65.0	58.9	118.9
43	37.9	78.3	138.3#

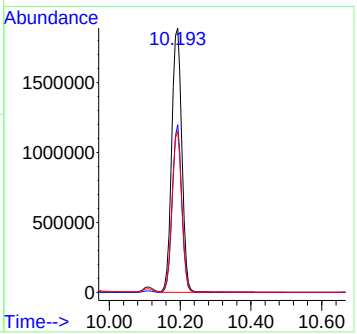


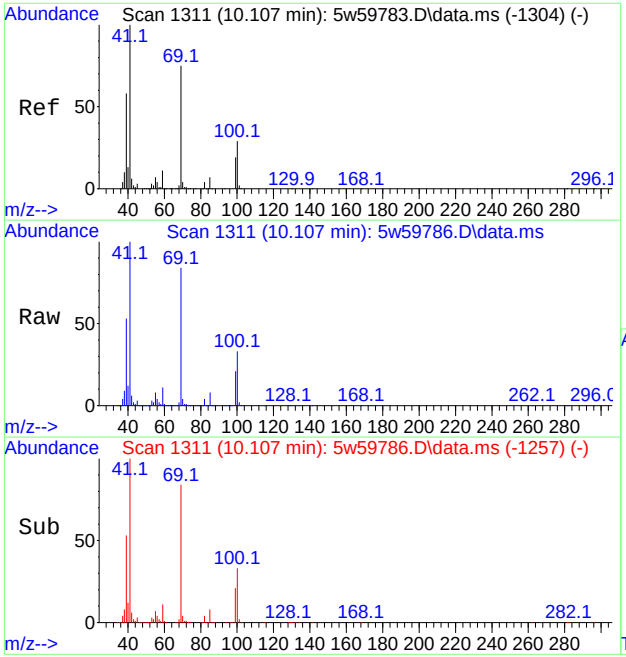


#62
HEPTANE
Concen: 36.15 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 3734901

Ion	Ratio	Lower	Upper
43	100		
71	59.6	24.5	84.5
57	59.3	26.2	86.2

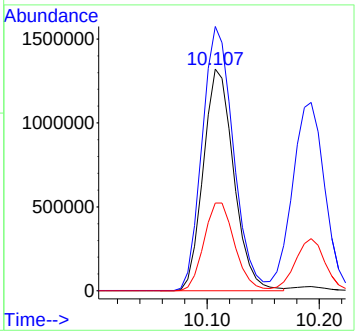


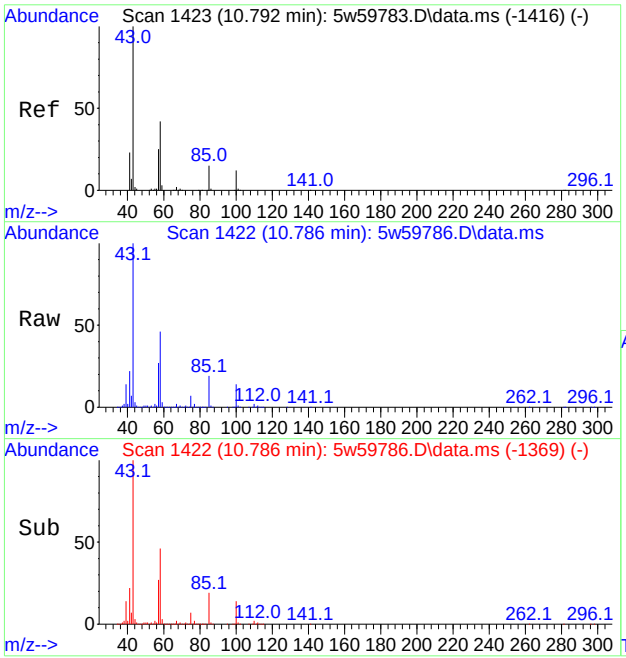


#63
METHYL METHACRYLATE
Concen: 41.16 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 2494133

Ion	Ratio	Lower	Upper
69	100		
41	121.8	95.3	155.3
100	40.1	6.3	66.3

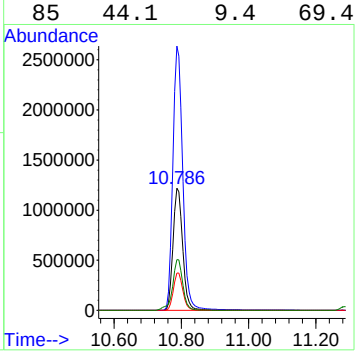


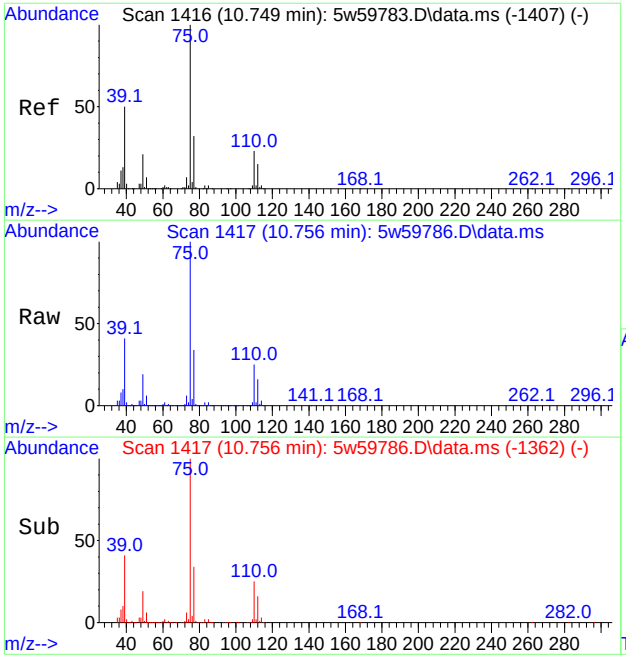


#64
METHYL ISOBUTYL KETONE
Concen: 38.84 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 2440543

Ion	Ratio	Lower	Upper
58	100		
43	220.5	209.2	269.2
100	30.5	0.0	58.8
85	44.1	9.4	69.4

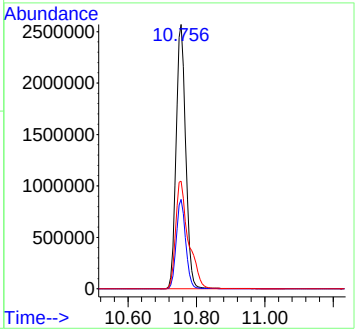


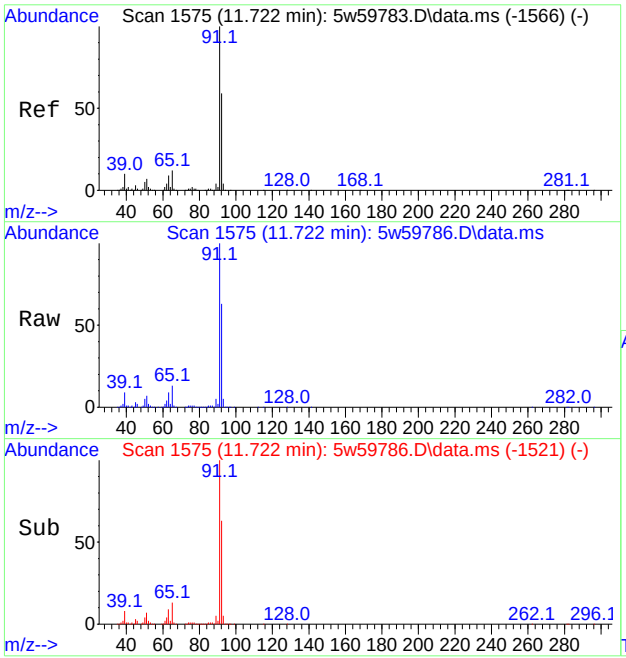


#65
cis-1,3-DICHLOROPROPENE
Concen: 41.46 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5041121

Ion	Ratio	Lower	Upper
75	100		
77	33.3	2.2	62.2
39	54.5	34.3	94.3

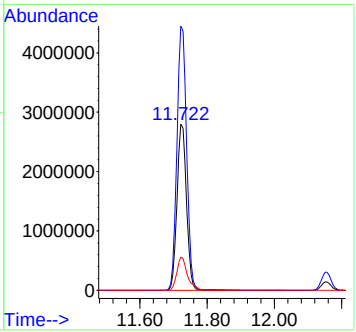


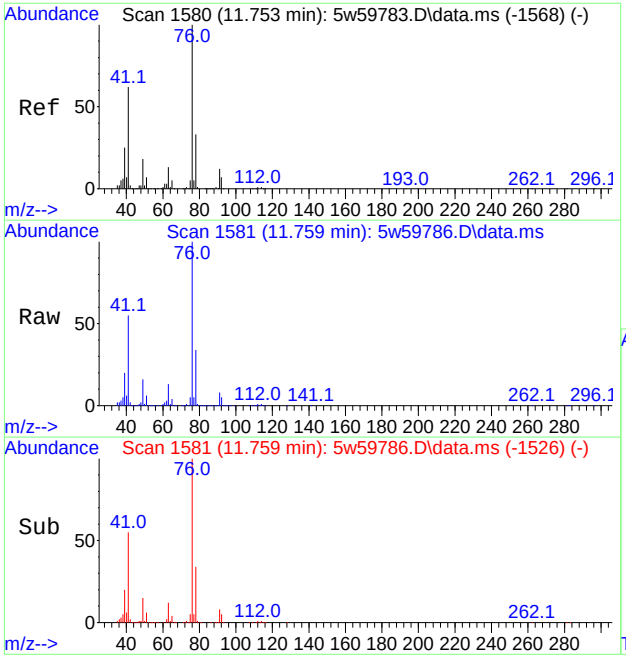


#66
TOLUENE
Concen: 41.16 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 92 Resp: 5480196

Ion	Ratio	Lower	Upper
92	100		
91	163.0	140.1	200.1
65	22.6	0.0	53.1

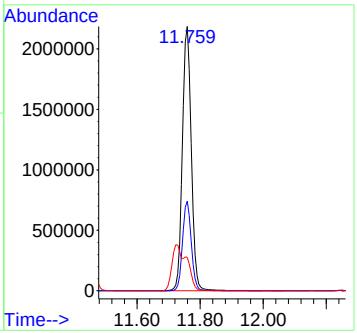


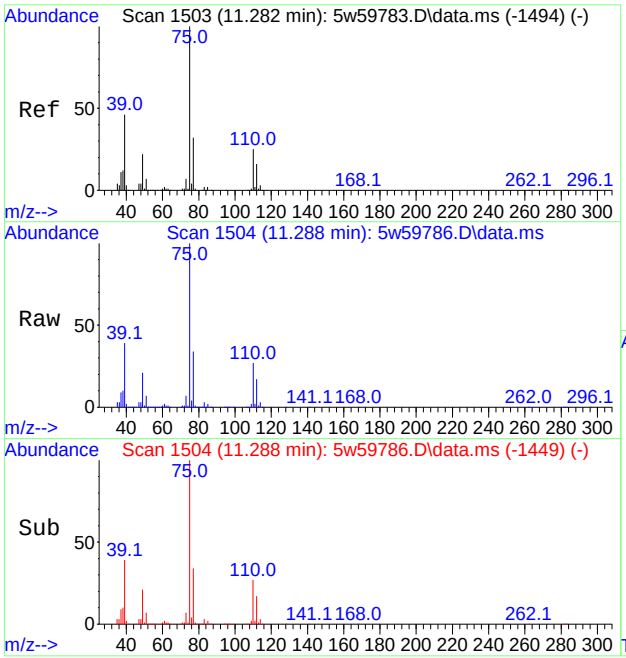


#67
1,3-DICHLOROPROPANE
Concen: 38.74 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 4271872

Ion	Ratio	Lower	Upper
76	100		
78	33.4	23.2	43.0
63	11.6	7.1	13.1

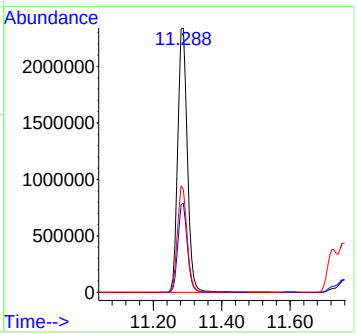


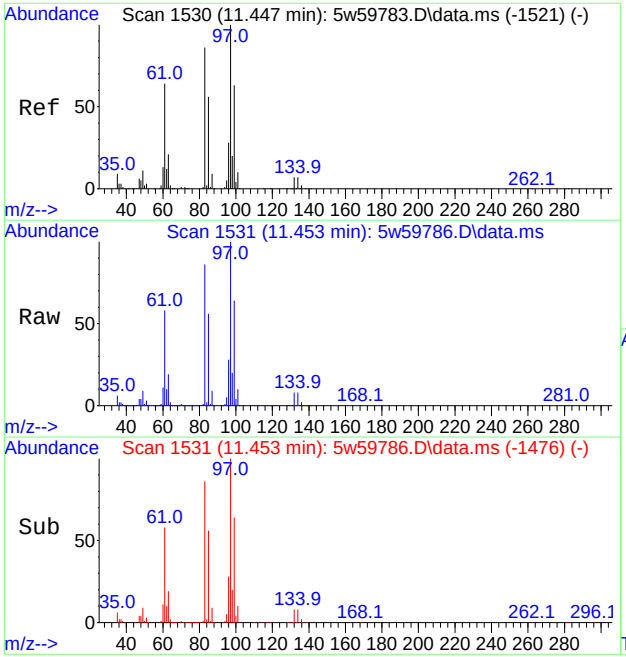


#68
trans-1,3-DICHLOROPROPENE
Concen: 40.93 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 4565890

Ion	Ratio	Lower	Upper
75	100		
77	33.1	1.6	61.6
39	40.9	16.1	76.1

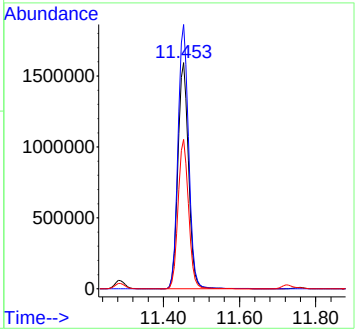


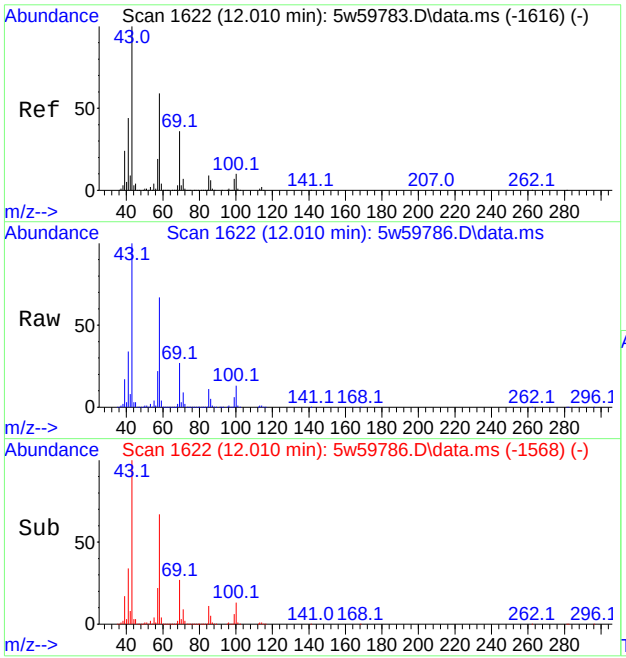


#69
1,1,2-TRICHLOROETHANE
Concen: 42.06 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 3077034

Ion	Ratio	Lower	Upper
83	100		
97	116.8	86.3	146.3
85	65.4	35.3	95.3

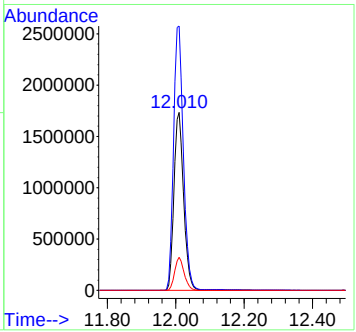


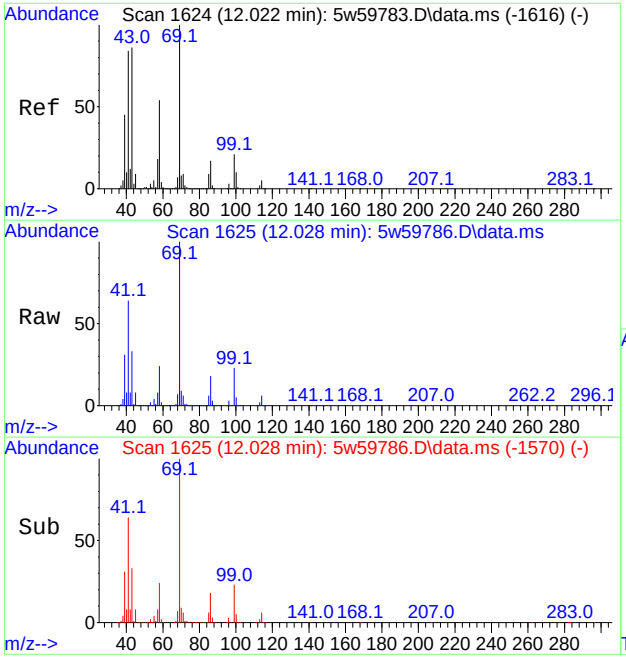


#71
2-HEXANONE
Concen: 32.66 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 3450029

Ion	Ratio	Lower	Upper
58	100		
43	150.6	137.2	197.2
100	18.4	0.0	46.9

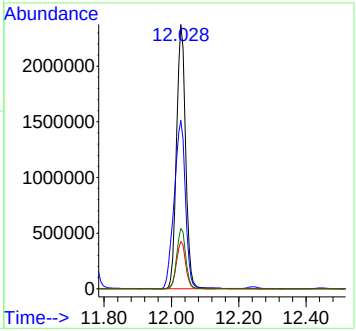


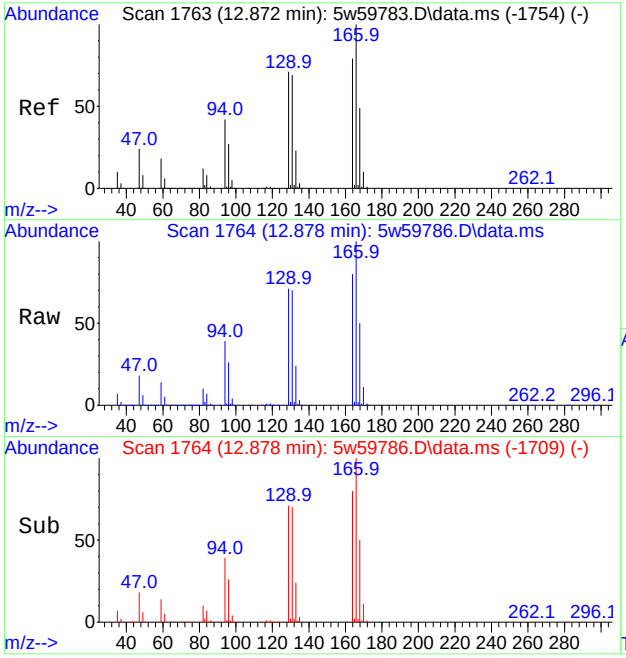


#72
ETHYL METHACRYLATE
Concen: 33.31 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 4427593

Ion	Ratio	Lower	Upper
69	100		
41	79.2	64.0	119.0
86	18.2	12.0	22.4
99	22.8	15.0	27.8

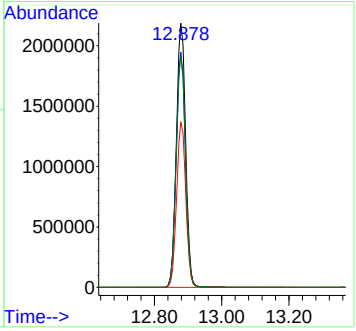


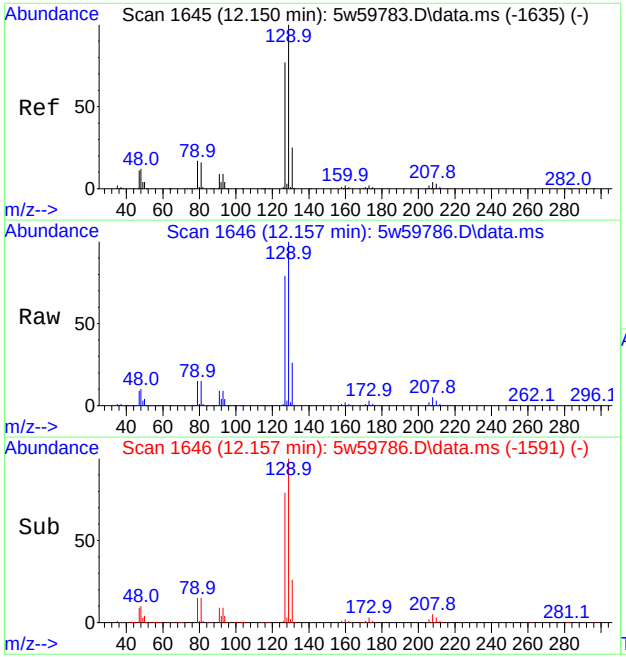


#73
TETRACHLOROETHYLENE
Concen: 31.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:164 Resp: 4203511

Ion	Ratio	Lower	Upper
164	100		
129	89.3	59.7	119.7
168	62.4	32.2	92.2
131	87.7	57.8	117.8

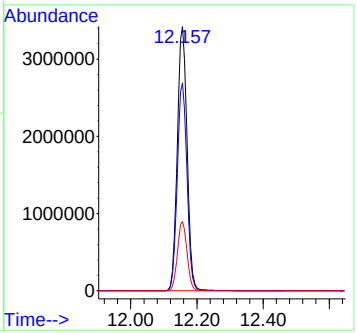


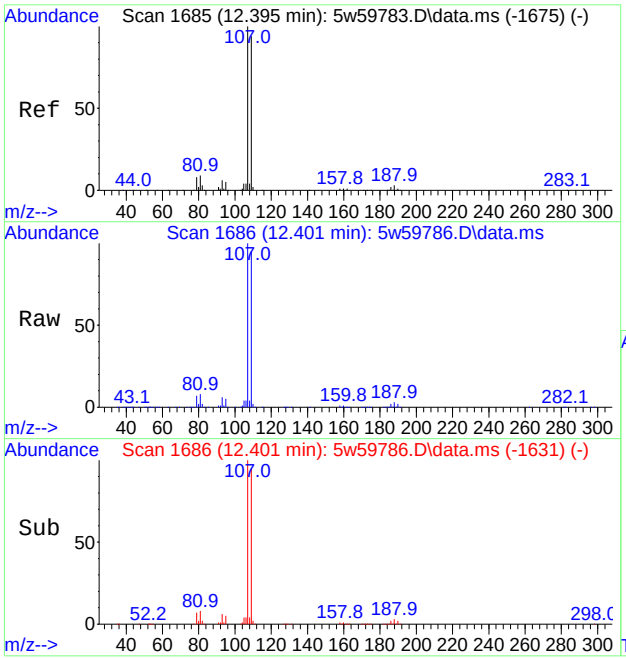


#74
DIBROMOCHLOROMETHANE
Concen: 30.46 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:129 Resp: 7029117

Ion	Ratio	Lower	Upper
129	100		
127	78.5	47.1	107.1
131	25.8	0.0	54.5

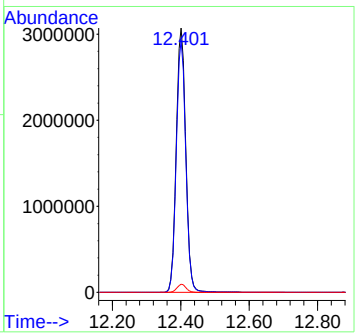


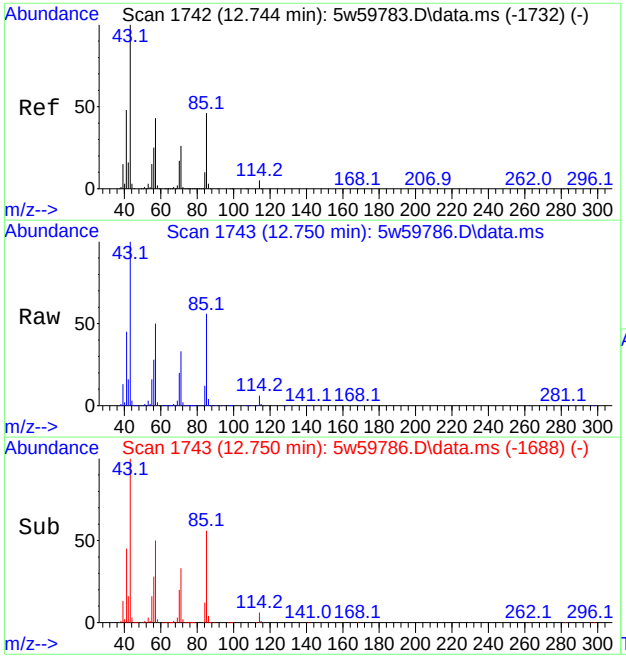


#75
1,2-DIBROMOETHANE
Concen: 33.98 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:107 Resp: 5931699

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

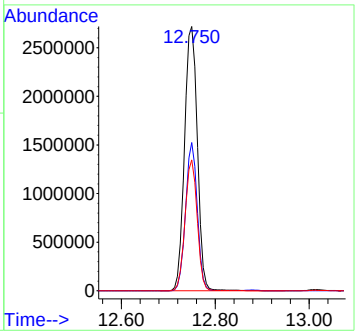


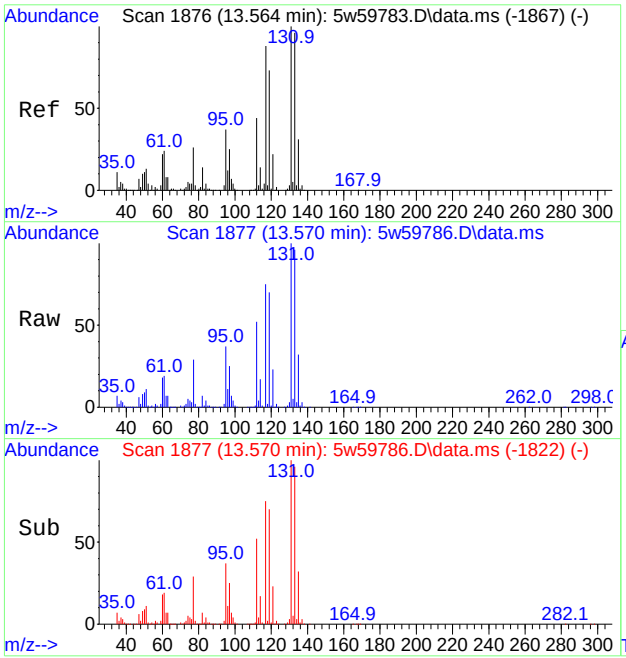


#76
OCTANE
Concen: 28.88 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 5161401

Ion	Ratio	Lower	Upper
43	100		
85	51.2	14.6	74.6
57	46.9	13.7	73.7

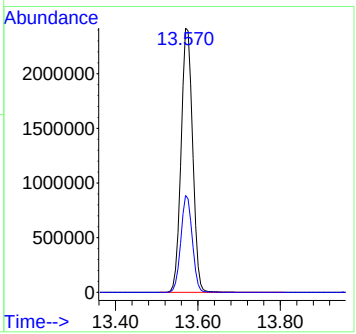


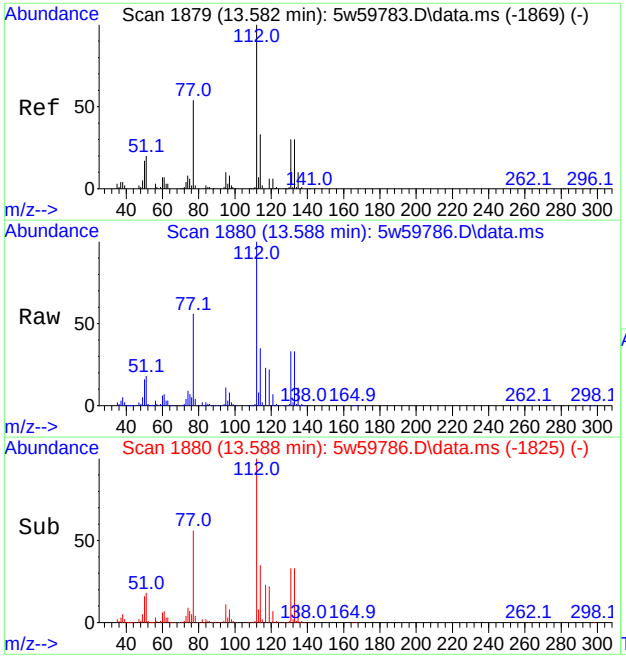


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 31.92 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:131 Resp: 4713028

Ion	Ratio	Lower	Upper
131	100		
95	36.1	6.5	66.5

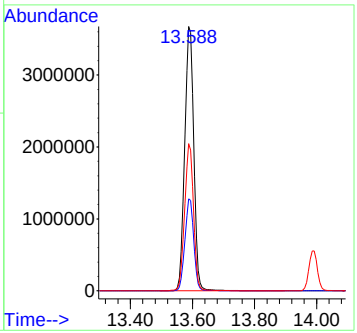


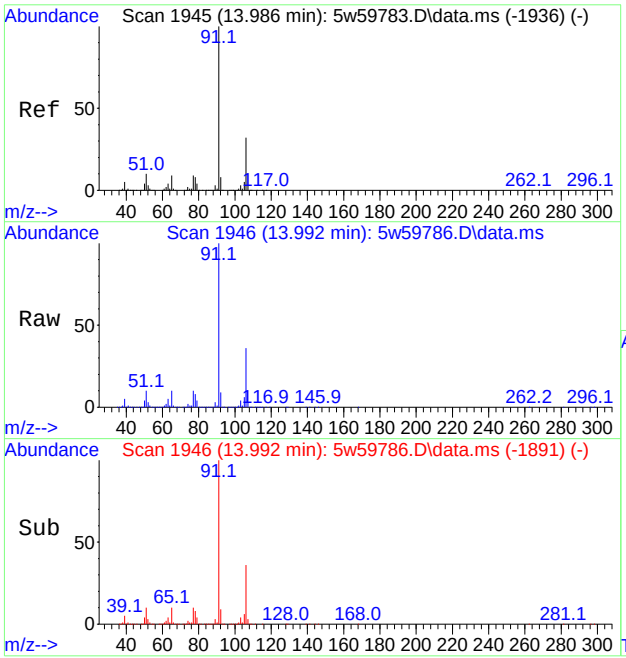


#78
CHLOROBENZENE
Concen: 30.47 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:112 Resp: 7439915

Ion	Ratio	Lower	Upper
112	100		
114	34.0	2.6	62.6
77	54.9	25.4	85.4

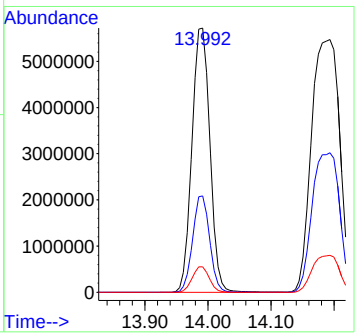


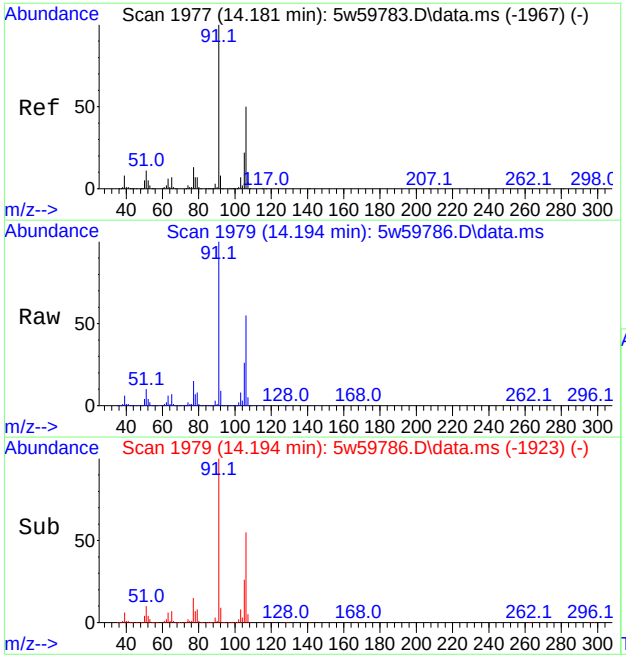


#79
ETHYLBENZENE
Concen: 31.54 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp:11379916

Ion	Ratio	Lower	Upper
91	100		
106	34.6	1.3	61.3
77	9.2	0.0	38.6

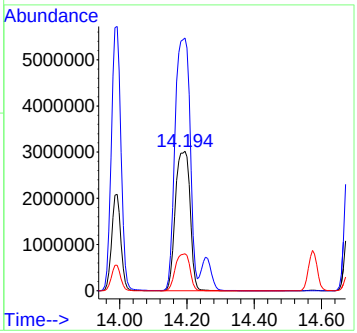


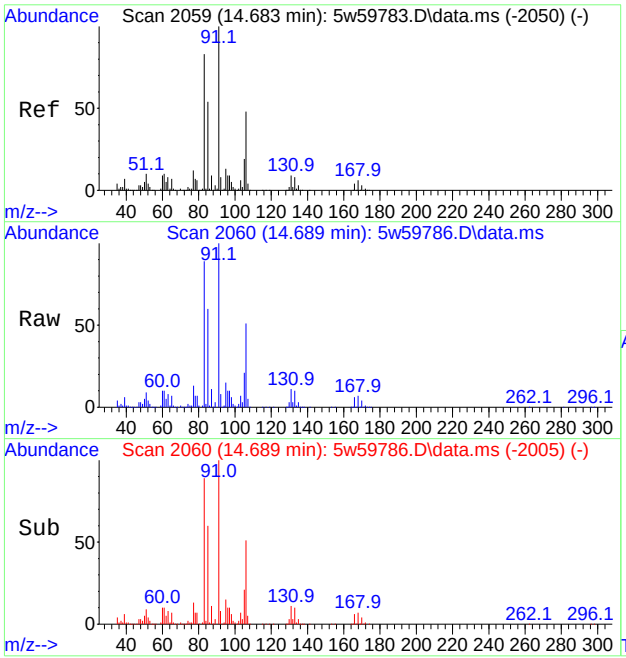


#80
m,p-XYLENE
Concen: 65.12 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 9117454

Ion	Ratio	Lower	Upper
106	100		
91	181.2	171.0	231.0
77	26.6	0.0	56.7

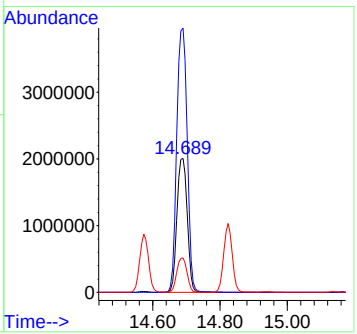


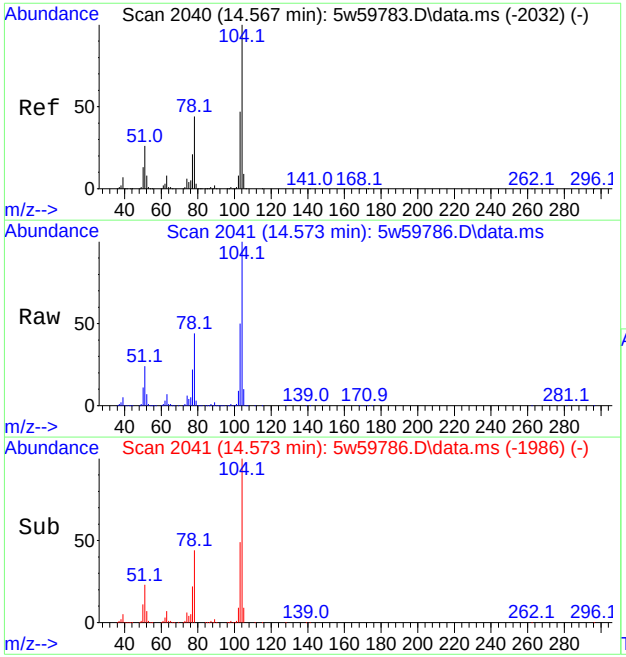


#81
o-XYLENE
Concen: 32.29 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 4240336

Ion	Ratio	Lower	Upper
106	100		
91	200.7	181.6	241.6
77	25.7	0.0	56.6

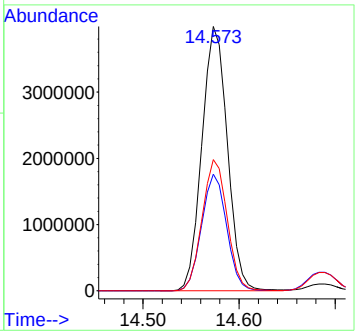


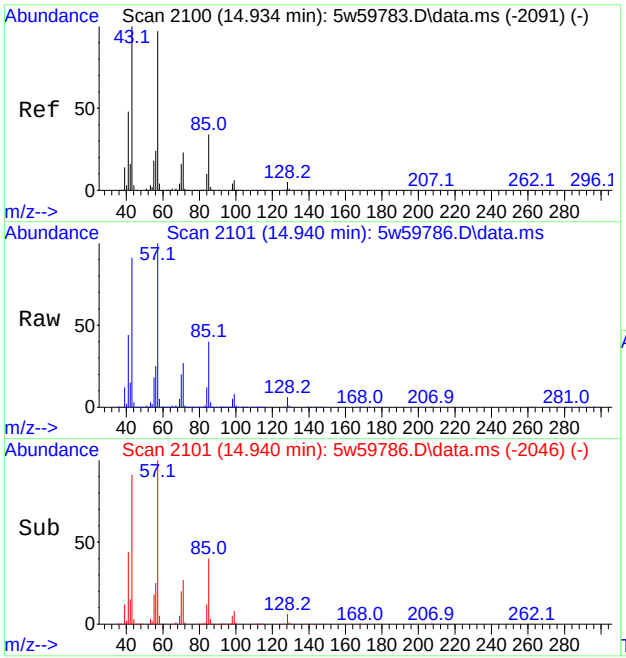


#82
STYRENE
Concen: 37.26 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:104 Resp: 7405410

Ion	Ratio	Lower	Upper
104	100		
78	43.4	13.3	73.3
103	48.7	17.2	77.2

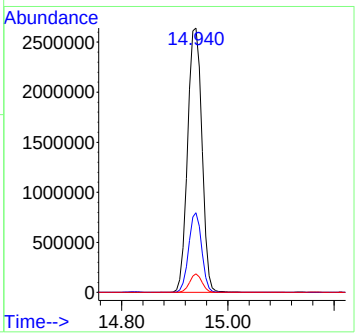


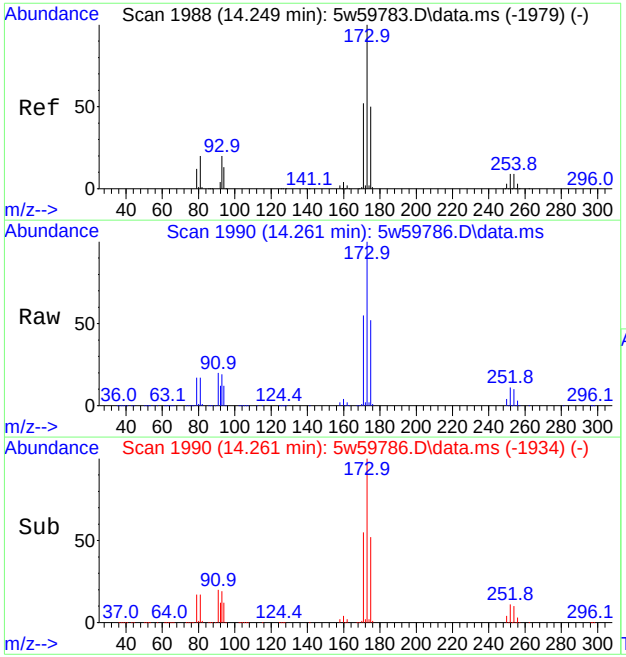


#83
NONANE
Concen: 27.57 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 4961142

Ion	Ratio	Lower	Upper
43	100		
71	27.5	0.0	52.7
128	6.1	0.0	34.7

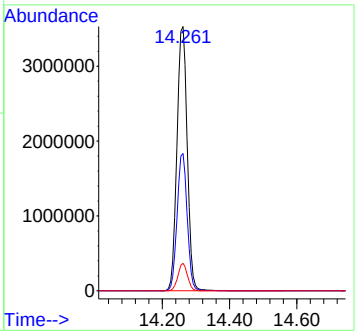


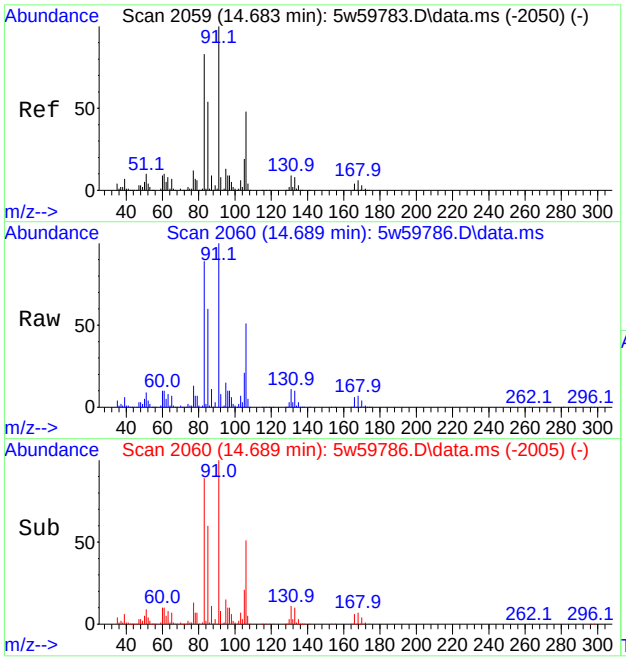


#84
BROMOFORM
Concen: 32.02 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:173 Resp: 7504388

Ion	Ratio	Lower	Upper
173	100		
175	51.0	19.6	79.6
254	9.8	0.0	39.0

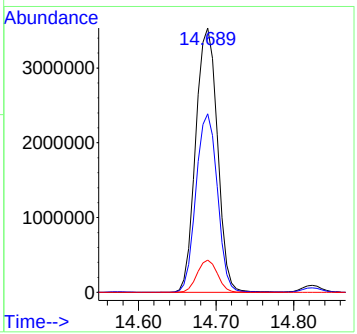


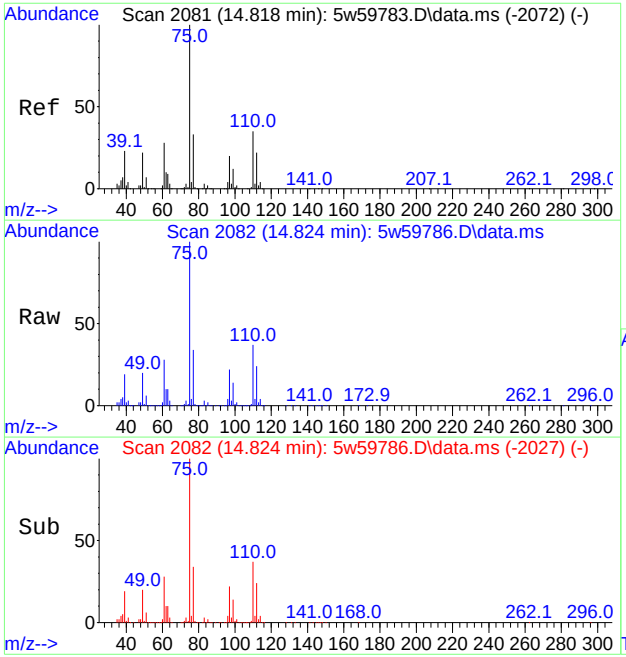


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 29.32 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6869258

Ion	Ratio	Lower	Upper
83	100		
85	66.6	35.2	95.2
131	11.5	0.0	40.3

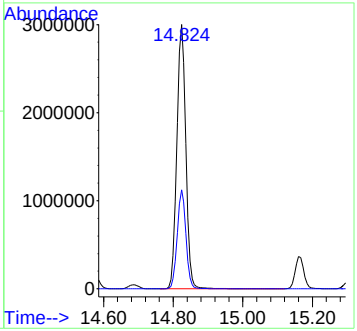


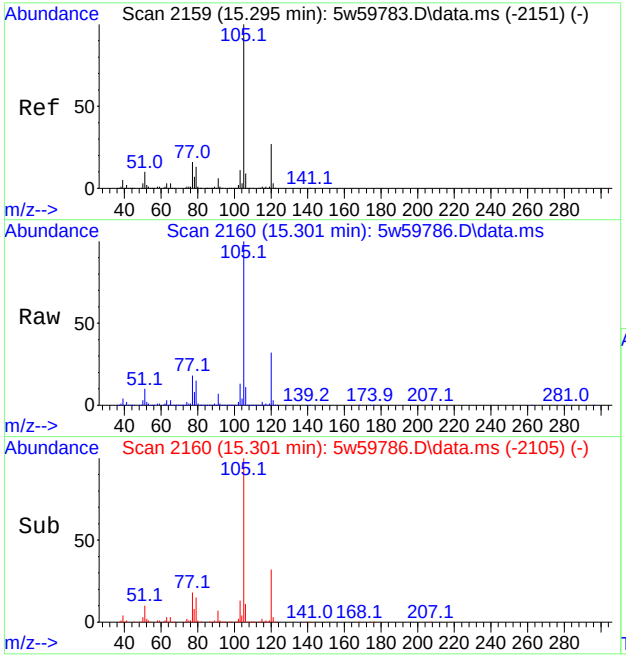


#87
1,2,3-TRICHLOROPROPANE
Concen: 29.33 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5400423

Ion	Ratio	Lower	Upper
75	100		
110	36.5	4.4	64.4

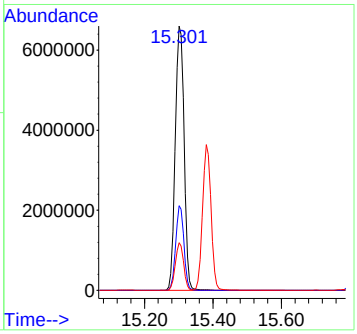


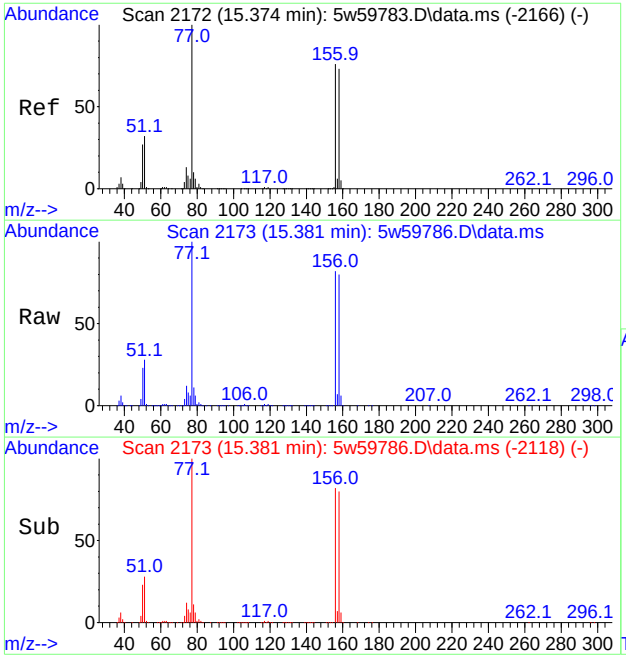


#88
ISOPROPYLBENZENE
Concen: 28.72 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11977220

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	56.0
77	16.8	0.0	45.6

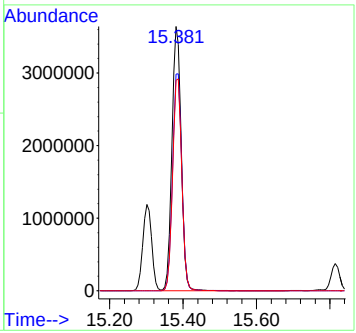


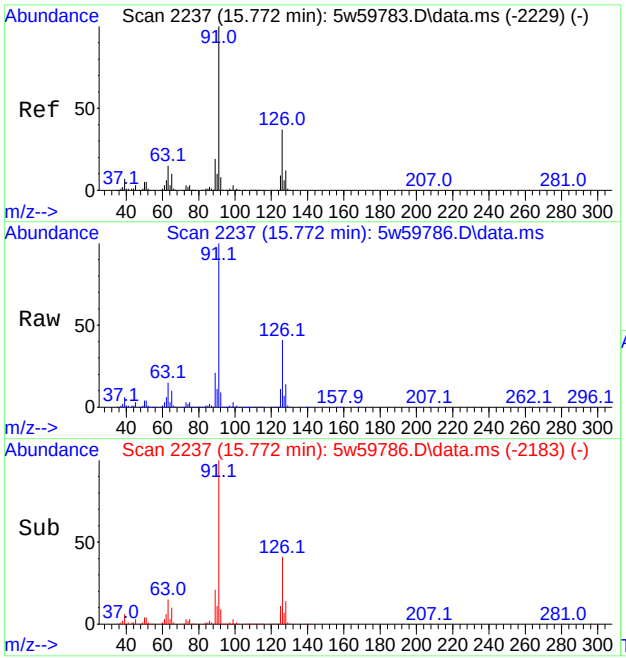


#89
BROMOBENZENE
Concen: 29.55 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 77 Resp: 6360723

Ion	Ratio	Lower	Upper
77	100		
156	82.5	54.9	101.9
158	80.2	53.5	99.3

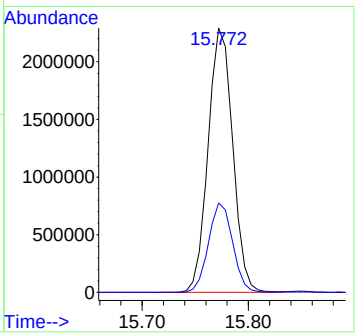


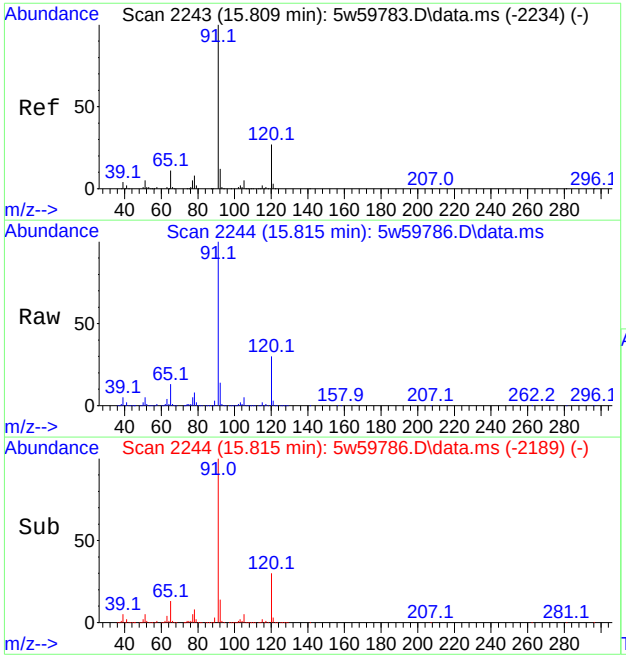


#90
2-CHLOROTOLUENE
Concen: 32.56 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:126 Resp: 3685448

Ion	Ratio	Lower	Upper
126	100		
128	33.2	2.7	62.7

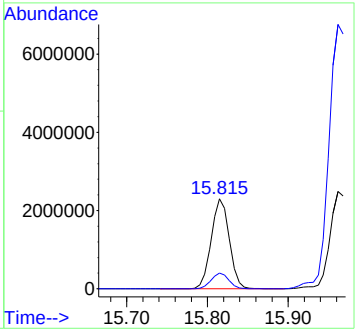


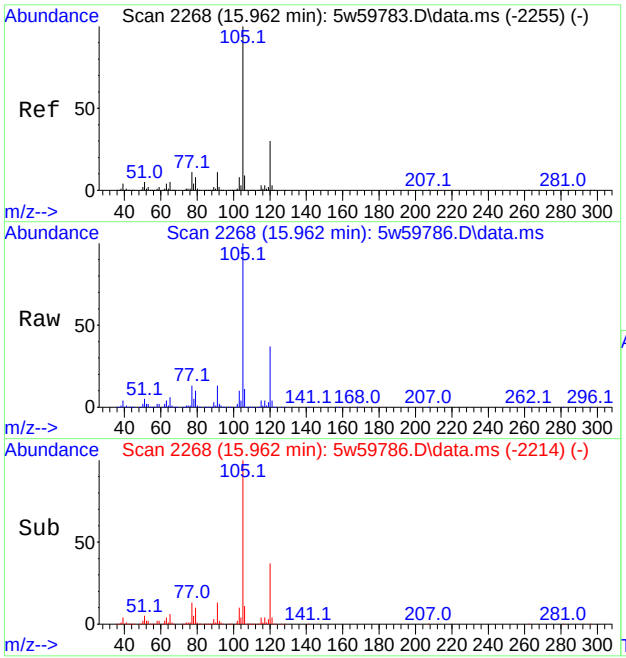


#91
n-PROPYLBENZENE
Concen: 31.94 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:120 Resp: 3584454

Ion	Ratio	Lower	Upper
120	100		
105	17.1	0.0	47.0

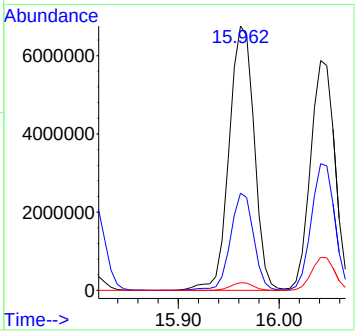


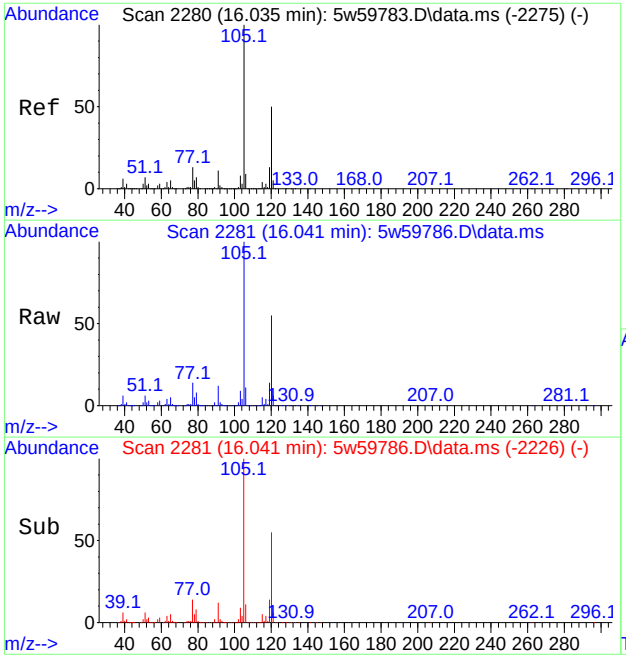


#92
4-ETHYLTOLUENE
Concen: 30.19 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11670979

Ion	Ratio	Lower	Upper
105	100		
120	34.0	0.0	59.9
119	2.7	0.0	32.3

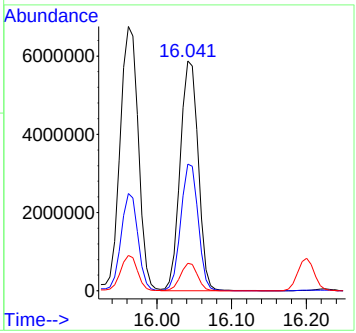


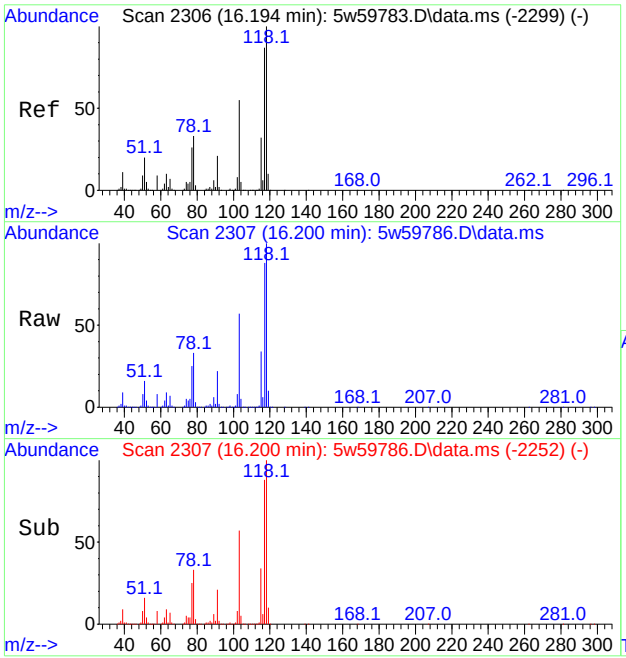


#93
1,3,5-TRIMETHYLBENZENE
Concen: 28.34 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9865714

Ion	Ratio	Lower	Upper
105	100		
120	53.1	19.4	79.4
91	11.4	0.0	40.8

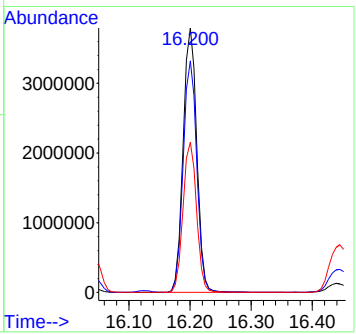


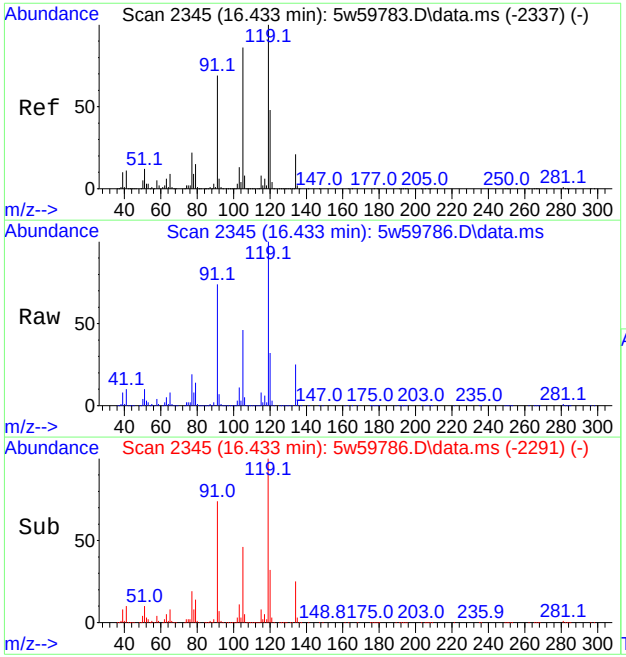


#94
ALPHA-METHYLSTYRENE
Concen: 33.71 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:118 Resp: 5900787

Ion	Ratio	Lower	Upper
118	100		
117	87.6	60.9	113.1
103	56.3	38.6	71.8

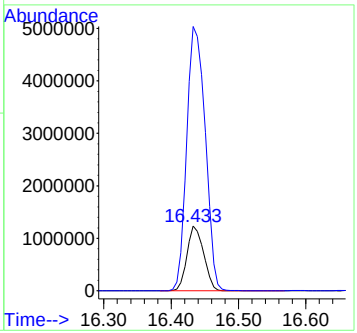


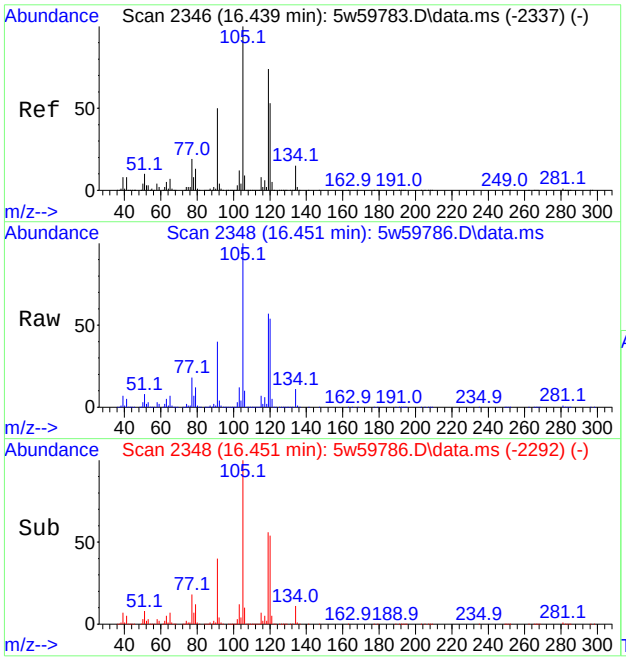


#95
tert-BUTYLBENZENE
Concen: 28.46 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2122779

Ion	Ratio	Lower	Upper
134	100		
119	455.7	459.3	519.3#

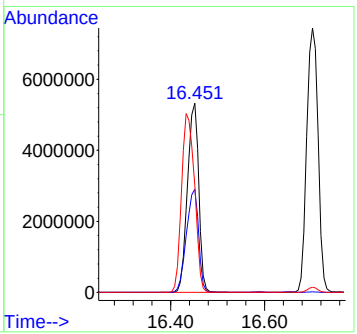


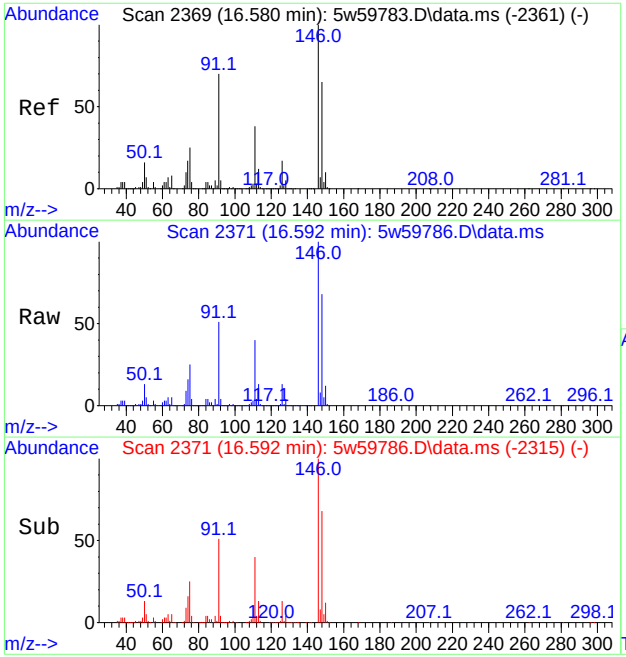


#96
1,2,4-TRIMETHYLBENZENE
Concen: 26.06 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 8886934

Ion	Ratio	Lower	Upper
105	100		
120	58.6	25.7	85.7
119	108.9	75.7	135.7

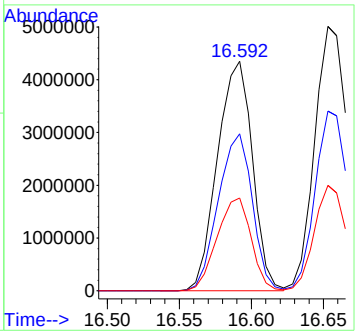


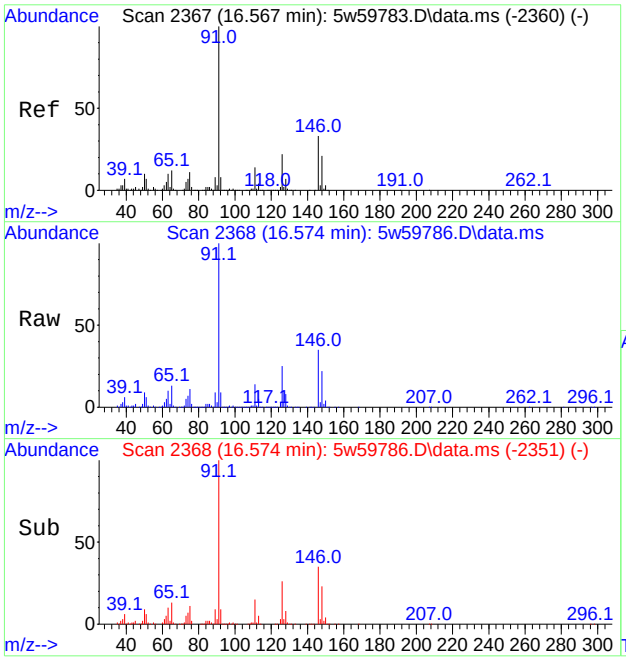


#97
m-DICHLOROBENZENE
Concen: 27.06 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7359121

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.8	94.8
111	39.4	8.2	68.2

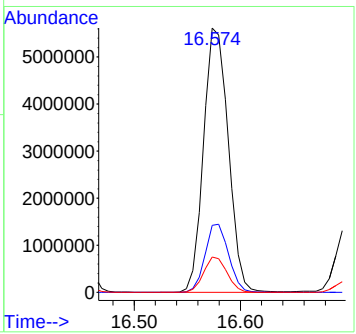


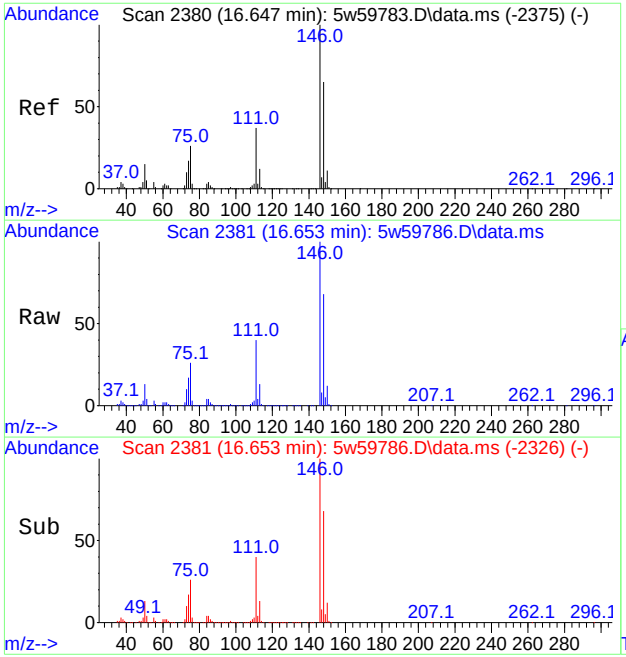


#98
BENZYL CHLORIDE
Concen: 28.12 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp: 9095992

Ion	Ratio	Lower	Upper
91	100		
126	24.6	0.0	51.7
65	12.7	0.0	42.2

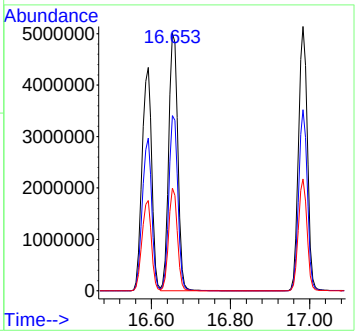


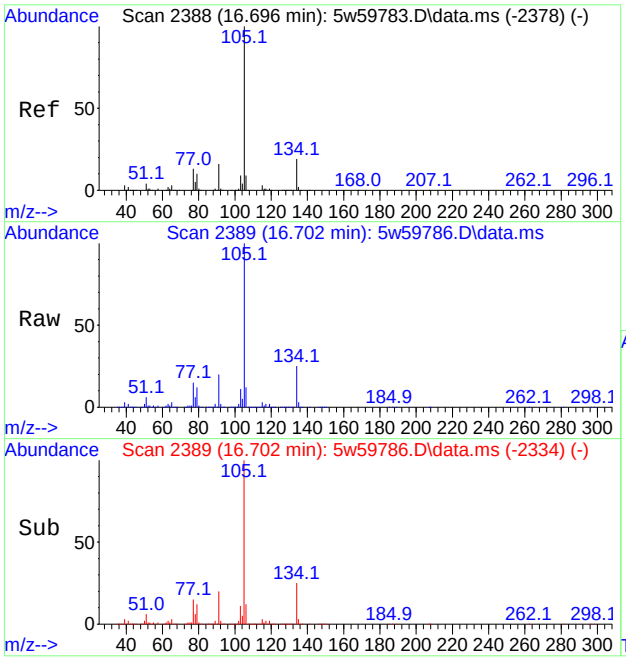


#99
p-DICHLOROBENZENE
Concen: 28.96 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7993903

Ion	Ratio	Lower	Upper
146	100		
148	67.0	34.6	94.6
111	38.3	6.7	66.7

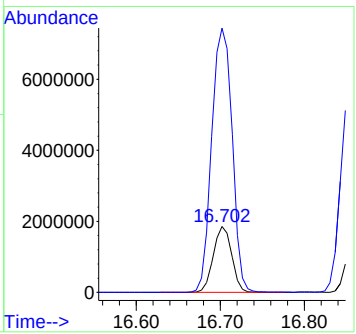


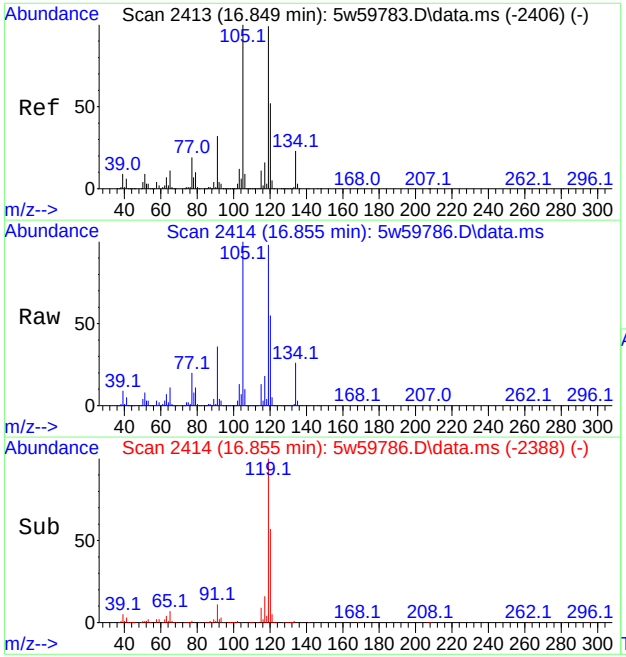


#100
sec-BUTYLBENZENE
Concen: 30.67 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2827725

Ion	Ratio	Lower	Upper
134	100		
105	445.7	502.5	562.5#

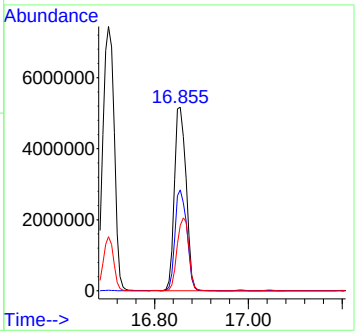


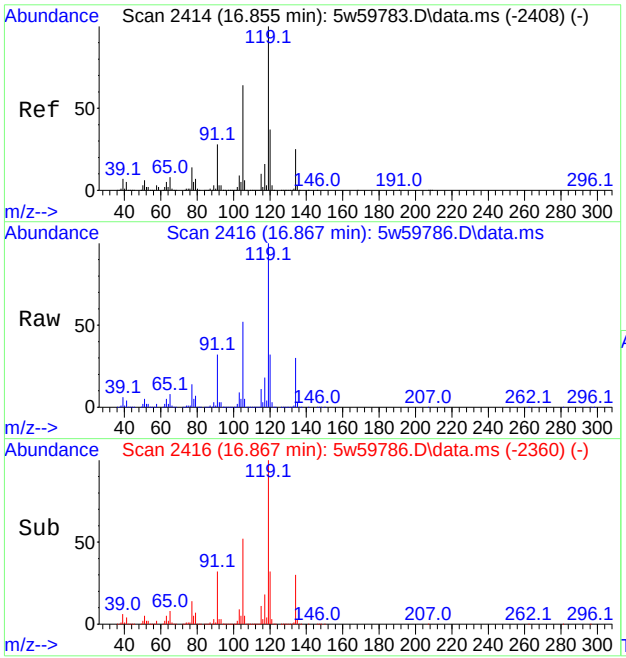


#101
1,2,3-TRIMETHYLBENZENE
Concen: 24.94 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9024748

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	39.4	7.4	67.4

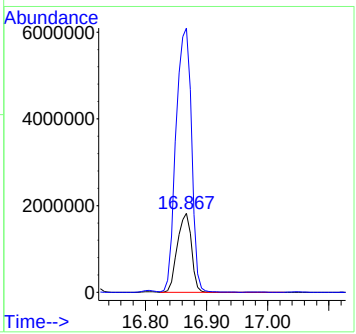


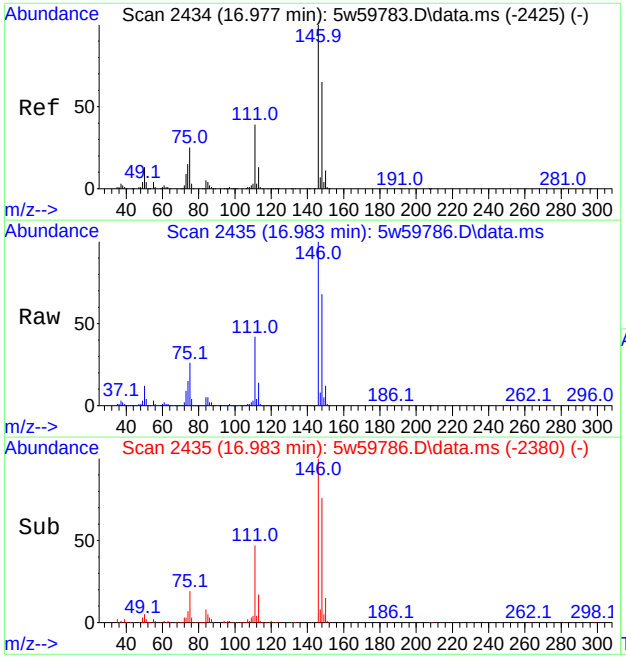


#102
p-ISOPROPYLTOLUENE
Concen: 27.10 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2924462

Ion	Ratio	Lower	Upper
134	100		
119	367.4	377.7	437.7#

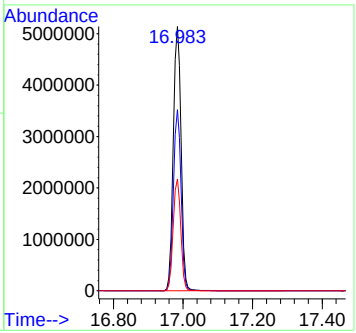


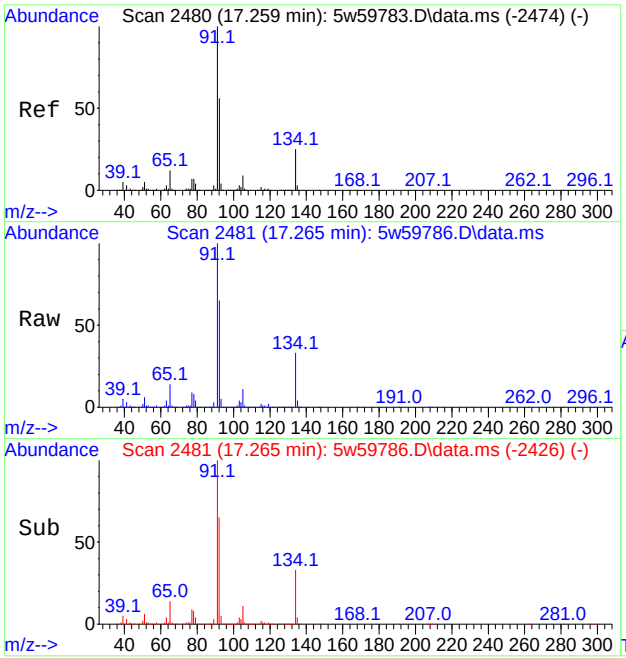


#103
o-DICHLOROBENZENE
Concen: 29.61 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7985671

Ion	Ratio	Lower	Upper
146	100		
148	67.1	34.3	94.3
111	41.2	9.2	69.2

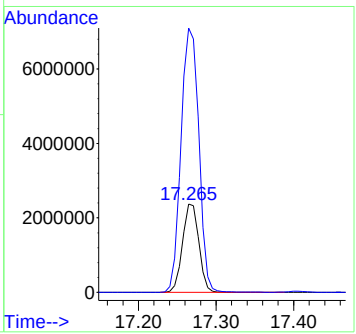


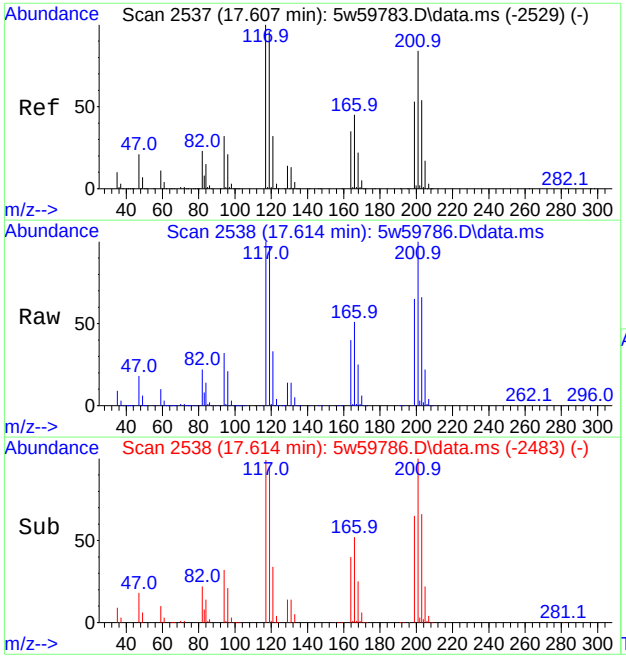


#104
n-BUTYLBENZENE
Concen: 34.55 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 3481921

Ion	Ratio	Lower	Upper
134	100		
91	327.2	363.1	423.1#

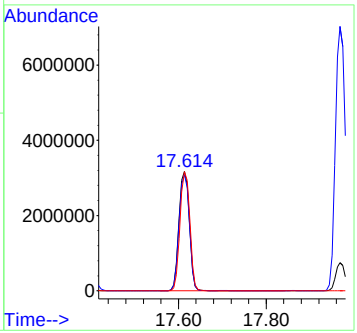


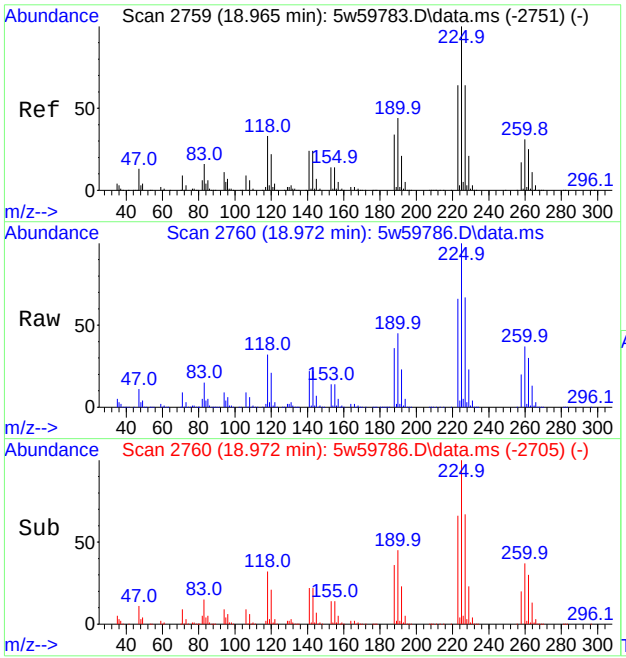


#105
HEXACHLOROETHANE
Concen: 28.92 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 5208368

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	95.1	61.1	113.5

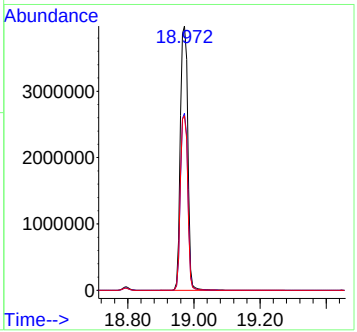


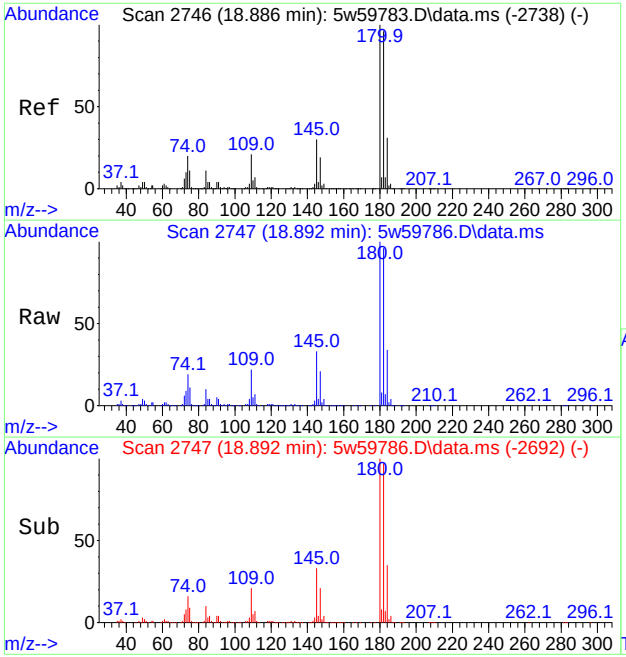


#106
HEXACHLOROBUTADIENE
Concen: 22.78 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:225 Resp: 6236008

Ion	Ratio	Lower	Upper
225	100		
227	66.2	34.2	94.2
223	65.6	33.3	93.3

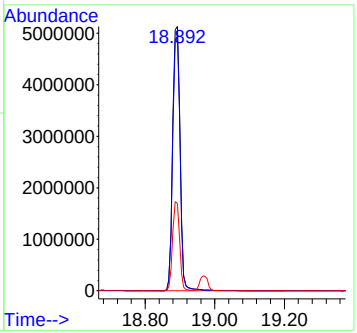


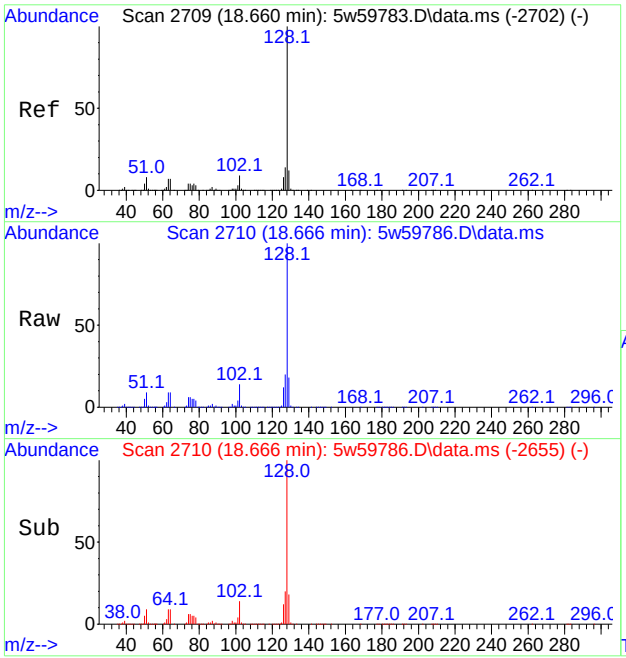


#107
1,2,4-TRICHLOROBENZENE
Concen: 32.01 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:180 Resp: 7600427

Ion	Ratio	Lower	Upper
180	100		
182	95.8	65.4	125.4
145	32.0	0.0	59.4

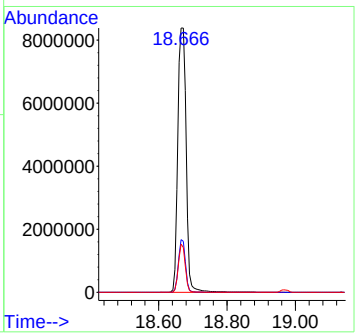


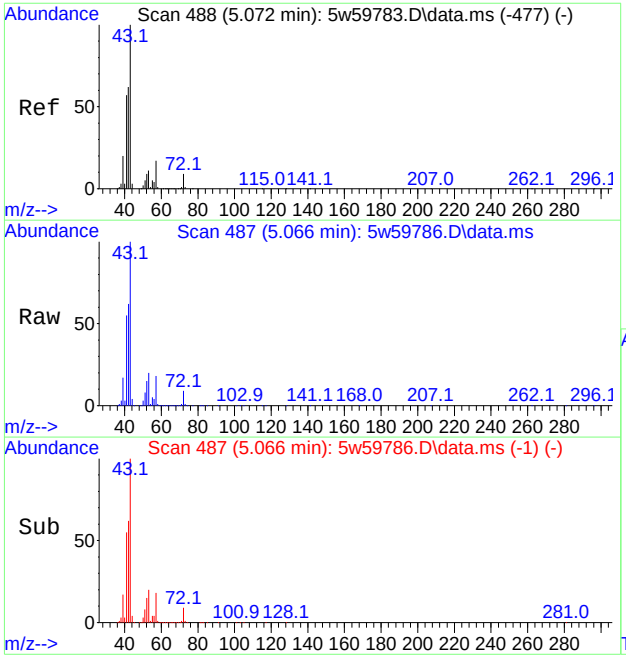


#108
NAPHTHALENE
Concen: 26.02 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:128 Resp:14205927

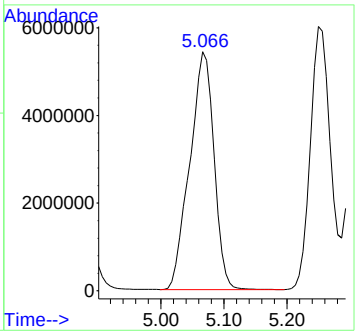
Ion	Ratio	Lower	Upper
128	100		
127	16.9	0.0	43.3
129	15.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 31.68 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:TIC Resp:14466620



Manual Integration Approval Summary

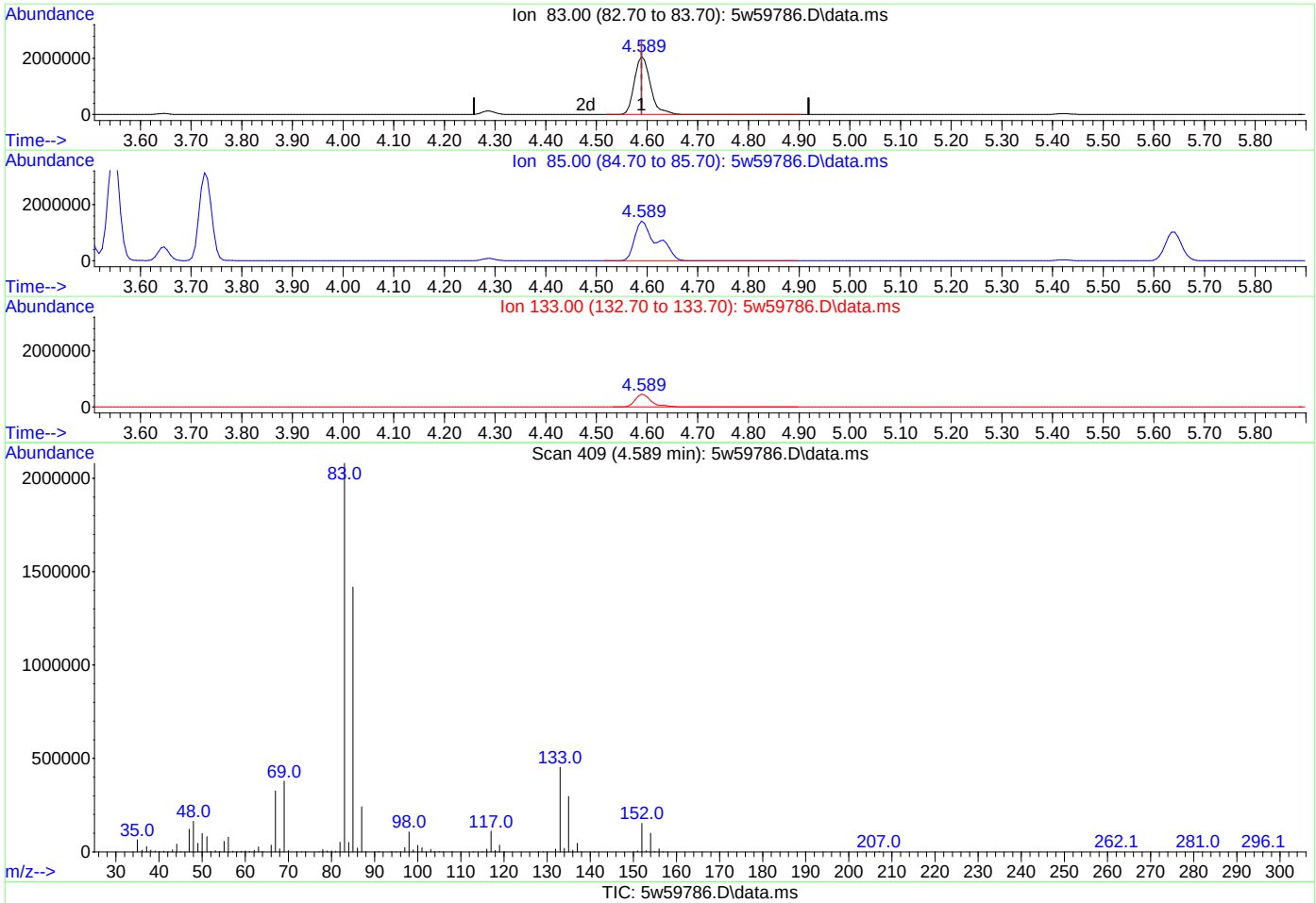
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59786.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 09:38 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV

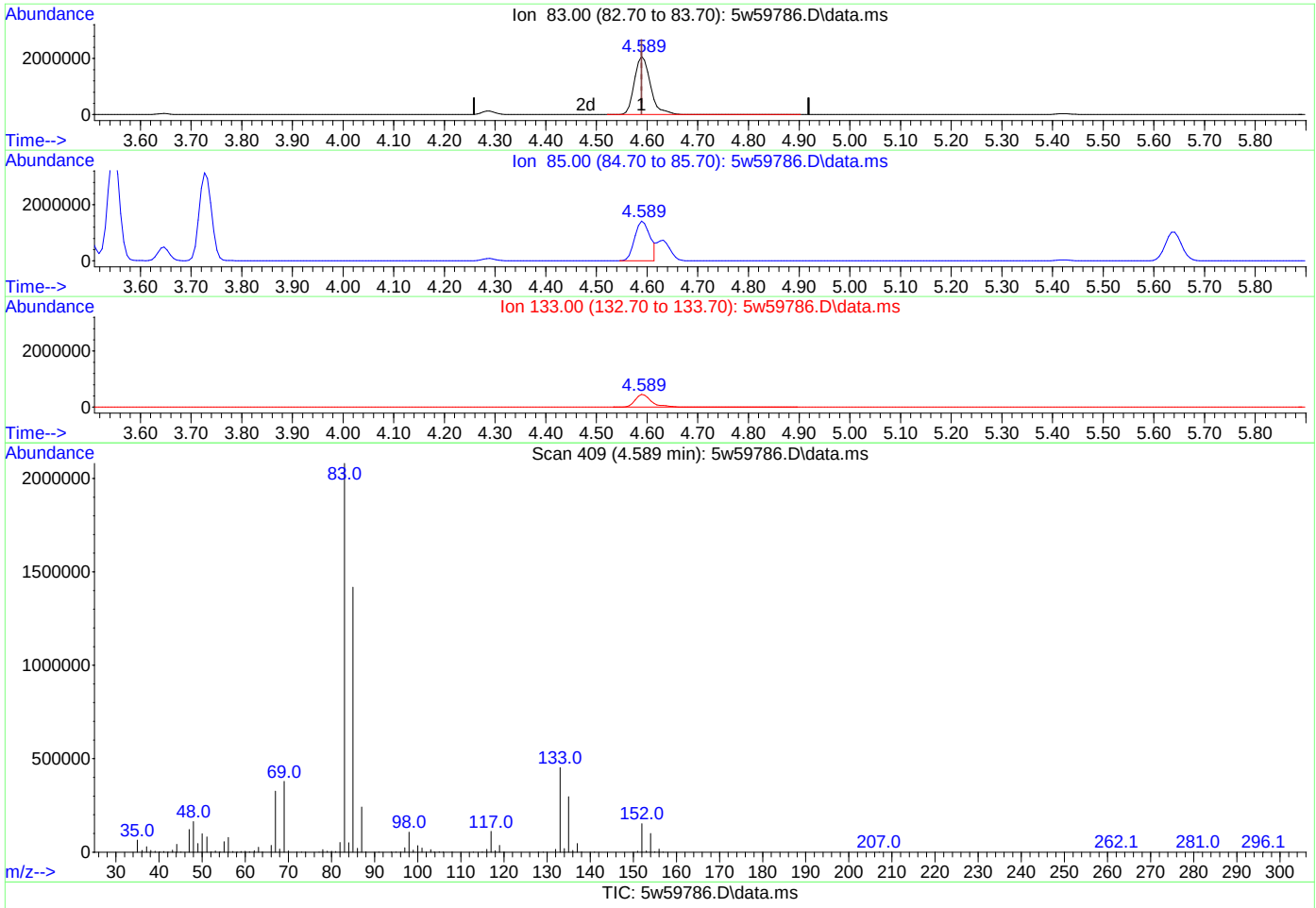
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.64#
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV m

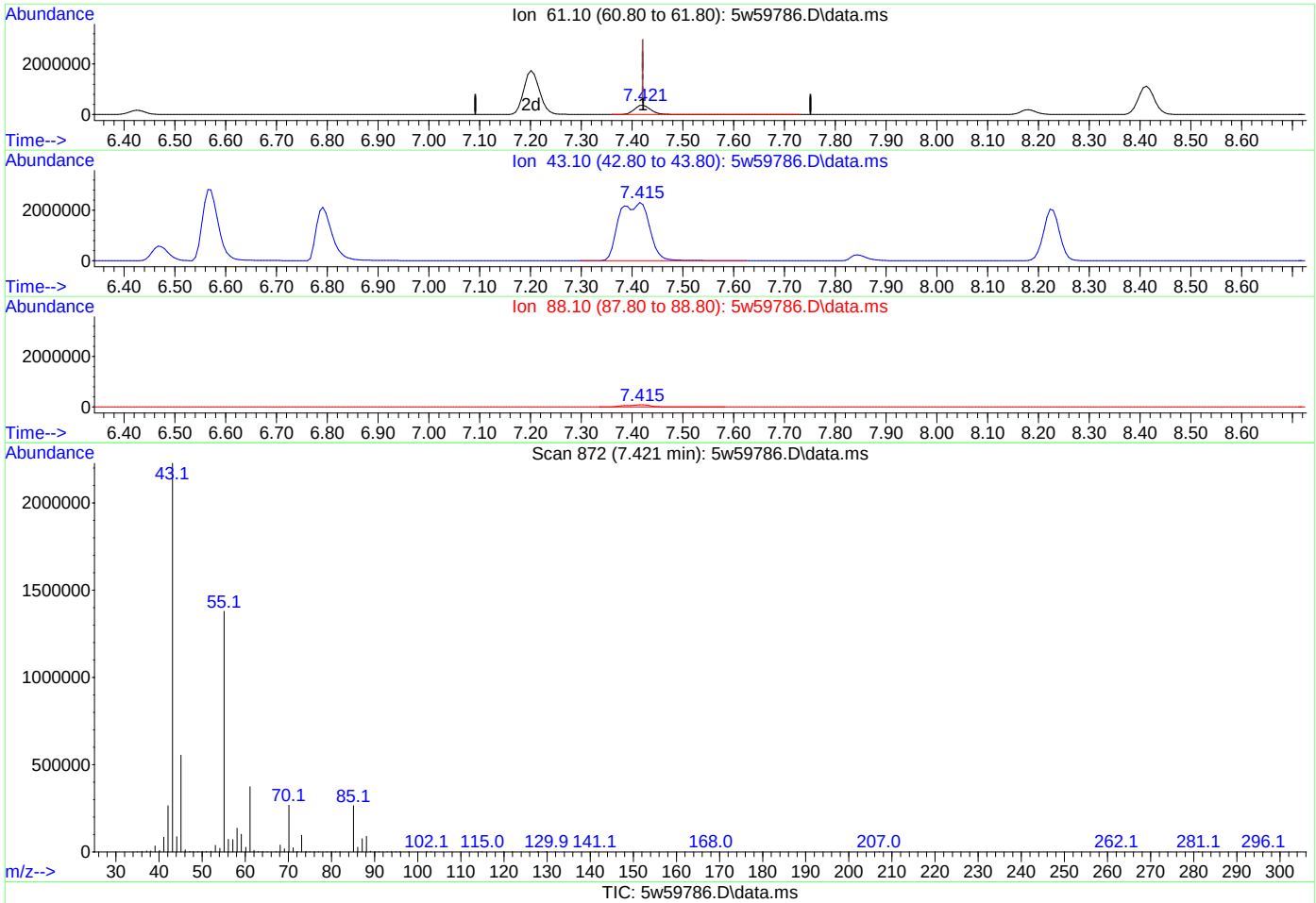
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.67
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV

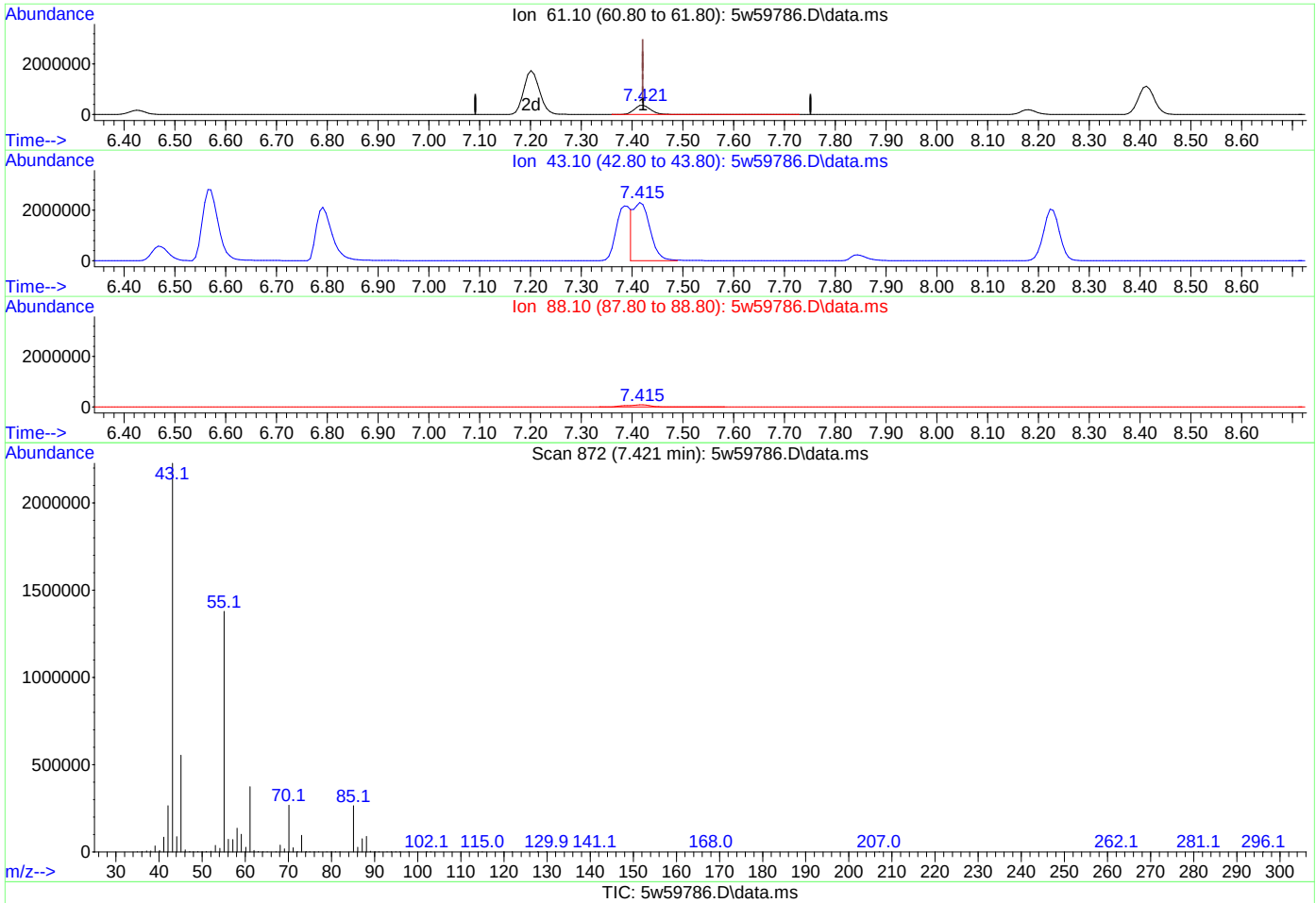
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1136.24#
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV m

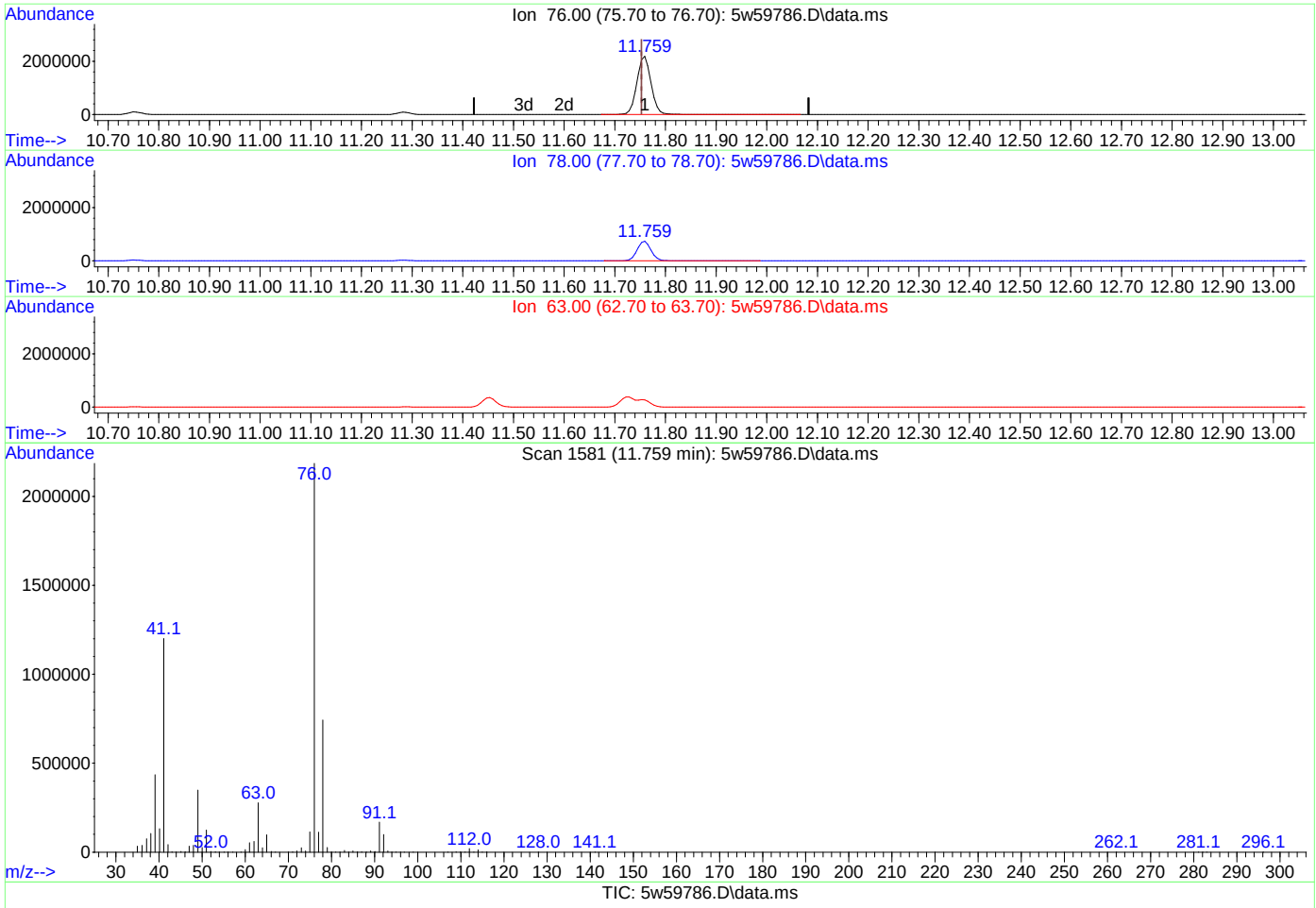
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	618.03
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV

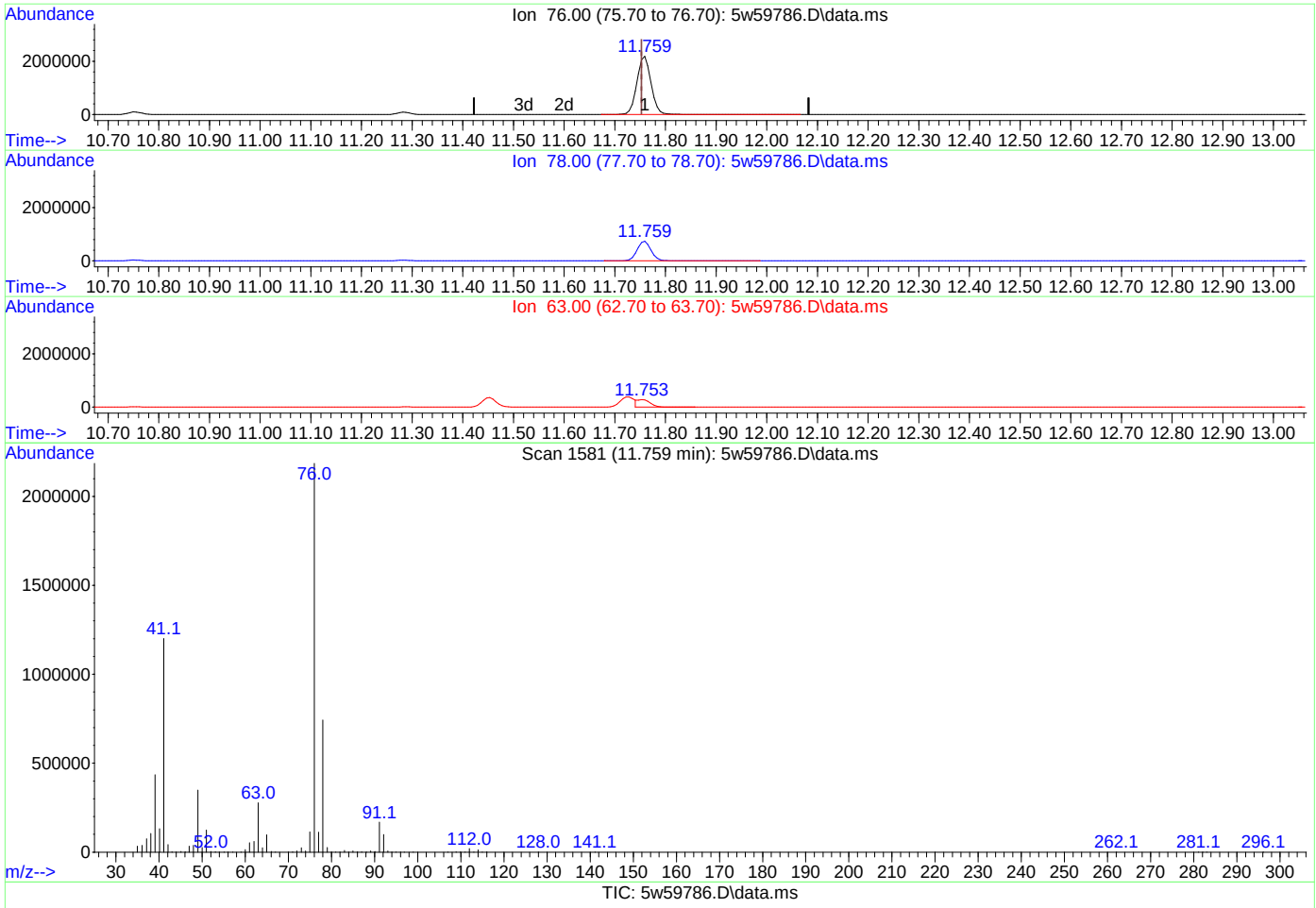
response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV m

response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	11.61
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.366	128	467614	10.00	PPBV		0.01
51) 1,4-DIFLUOROBENZENE	9.220	114	1973593	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1346242	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.366	128	467614	10.00	PPBV		0.01
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.167	95	1432127	8.79	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 87.90%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	581031	25.61	PPBV		100
3) FREON 152A	3.445	65	2109561	69.10	PPBV		94
4) CHLORODIFLUOROMETHANE	3.476	67	930907	63.03	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.506	116	4660403	63.22	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	7605378	57.48	PPBV		96
7) PROPYLENE	3.500	41	1977365	62.50	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	5527171	55.41	PPBV		98
9) FREON 114	3.733	85	6296072	53.88	PPBV		96
10) CHLOROMETHANE	3.665	52	706786	54.00	PPBV		96
11) VINYL CHLORIDE	3.818	62	2396129	54.50	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1434792	57.20	PPBV		98
13) n-BUTANE	3.947	43	2229721	56.04	PPBV		98
14) BROMOMETHANE	4.106	94	2666902	57.99	PPBV		100
15) CHLOROETHANE	4.228	64	1048912	54.16	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	5025383	54.94	PPBV		98
17) ACETONITRILE	4.479	41	1245621	52.74	PPBV		99
18) ACROLEIN	4.571	56	762905	54.68	PPBV		95
19) FREON 123	4.595	83	5407858m	53.17	PPBV		
20) FREON 123A	4.638	117	3495792	57.82	PPBV		92
21) TRICHLOROFLUOROMETHANE	4.797	101	6263951	56.50	PPBV		99
22) ISOPROPYL ALCOHOL	4.877	45	4774264	59.23	PPBV		99
23) ACETONE	4.669	58	909361	55.35	PPBV		98
24) PENTANE	5.072	42	2631624	64.00	PPBV		96
25) IODOMETHANE	5.256	142	9114140	64.39	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2972573	64.07	PPBV		93
27) CARBON DISULFIDE	5.672	76	7844304	61.73	PPBV		97
28) ETHANOL	4.320	45	782956	51.79	PPBV		100
29) BROMOETHENE	4.479	106	2638149	57.30	PPBV		100
30) ACRYLONITRILE	5.048	52	1983513	68.16	PPBV		99
31) METHYLENE CHLORIDE	5.427	84	2586702	62.87	PPBV		95
32) 3-CHLOROPROPENE	5.525	76	1356999	64.21	PPBV	#	88
33) FREON 113	5.641	151	5255099	62.99	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	3195584	65.25	PPBV		96
35) TERTIARY BUTYL ALCOHOL	5.372	59	4989539	52.68	PPBV		98
36) METHYL TERTIARY BUTYL ...	6.473	73	7764187	63.24	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1279396	65.77	PPBV		96
38) HEXANE	7.385	57	4098725	58.34	PPBV		91
39) VINYL ACETATE	6.571	86	595335	69.16	PPBV	#	73
40) 1,1-DICHLOROETHANE	6.430	63	5580661	63.37	PPBV		98
41) METHYL ETHYL KETONE	6.791	72	1403846	68.19	PPBV	#	81
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3406006	66.53	PPBV		96
43) DIISOPROPYL ETHER	7.391	59	1304563	59.80	PPBV	#	72
44) ETHYL ACETATE	7.422	61	1009100m	62.87	PPBV		
45) METHYL ACRYLATE	7.409	55	5147084	59.04	PPBV		96
46) CHLOROFORM	7.489	83	6393103	62.45	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.229	57	5181431	62.87	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.413	97	6744194	62.23	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	7391895	61.67	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	4560398	62.85	PPBV		98
52)	BENZENE	8.859	78	8949189	67.41	PPBV		99
53)	CYCLOHEXANE	9.110	84	3590293	67.59	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1853301	67.86	PPBV		90
55)	TRICHLOROETHYLENE	9.893	95	4247994	61.05	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	3414269	61.24	PPBV		99
57)	DIBROMOMETHANE	9.642	174	4863346	64.66	PPBV		97
58)	ETHYL ACRYLATE	9.685	55	6797917	63.67	PPBV		98
59)	BROMODICHLOROMETHANE	9.862	83	7417663	61.30	PPBV		97
60)	2,2,4-TRIMETHYLPENTANE	9.924	57	11658719	56.13	PPBV		96
61)	1,4-DIOXANE	9.893	88	1844331	60.00	PPBV	#	1
62)	HEPTANE	10.193	43	4474034	63.31	PPBV		93
63)	METHYL METHACRYLATE	10.113	69	3101307	67.79	PPBV		94
64)	METHYL ISOBUTYL KETONE	10.792	58	2975343	66.58	PPBV		88
65)	cis-1,3-DICHLOROPROPENE	10.756	75	6183357	66.43	PPBV		90
66)	TOLUENE	11.728	92	6766589	65.67	PPBV		93
67)	1,3-DICHLOROPROPANE	11.759	76	5183507m	63.52	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	5535715	63.59	PPBV		93
69)	1,1,2-TRICHLOROETHANE	11.453	83	3736885	66.35	PPBV		100
71)	2-HEXANONE	12.010	58	4158676	54.00	PPBV		87
72)	ETHYL METHACRYLATE	12.034	69	5321053	53.39	PPBV		89
73)	TETRACHLOROETHYLENE	12.878	164	5112644	56.17	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.157	129	8396348	52.38	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	7189005	57.04	PPBV		100
76)	OCTANE	12.750	43	6099138	51.61	PPBV		89
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	5539677	54.07	PPBV		100
78)	CHLOROBENZENE	13.594	112	8685700	52.99	PPBV		98
79)	ETHYLBENZENE	13.992	91	13293280	52.78	PPBV		93
80)	m,p-XYLENE	14.194	106	10660694	104.01	PPBV		86
81)	o-XYLENE	14.689	106	4828440	49.93	PPBV		93
82)	STYRENE	14.579	104	8801086	56.42	PPBV		98
83)	NONANE	14.940	43	5544485	46.77	PPBV		89
84)	BROMOFORM	14.261	173	8954982	53.58	PPBV		97
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	7680268	46.70	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	6463476	53.62	PPBV		96
88)	ISOPROPYLBENZENE	15.307	105	13782072	47.61	PPBV		93
89)	BROMOBENZENE	15.387	77	7438070	50.72	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	4362530	53.10	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	4269312	52.74	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	13388380	48.02	PPBV		91
93)	1,3,5-TRIMETHYLBENZENE	16.047	105	11253685	47.79	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.200	118	6738901	50.76	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	2429034	46.98	PPBV	#	85
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	9912721	42.68	PPBV		96
97)	m-DICHLOROBENZENE	16.592	146	8350505	44.49	PPBV		97
98)	BENZYL CHLORIDE	16.580	91	10182019	42.40	PPBV		95
99)	p-DICHLOROBENZENE	16.659	146	9434738	51.05	PPBV		96
100)	sec-BUTYLBENZENE	16.702	134	3389691	52.25	PPBV	#	63
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9964483	41.33	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	3209884	42.88	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	9264152	51.54	PPBV		96
104)	n-BUTYLBENZENE	17.271	134	4068110	53.04	PPBV	#	67
105)	HEXACHLOROETHANE	17.614	117	5943910	48.19	PPBV		95
106)	HEXACHLOROBUTADIENE	18.972	225	6941797	42.04	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	8668660	50.18	PPBV		98
108)	NAPHTHALENE	18.666	128	15644412	41.73	PPBV		88
110)	TVHC as equiv Pentane	5.072	TIC	17678397	64.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

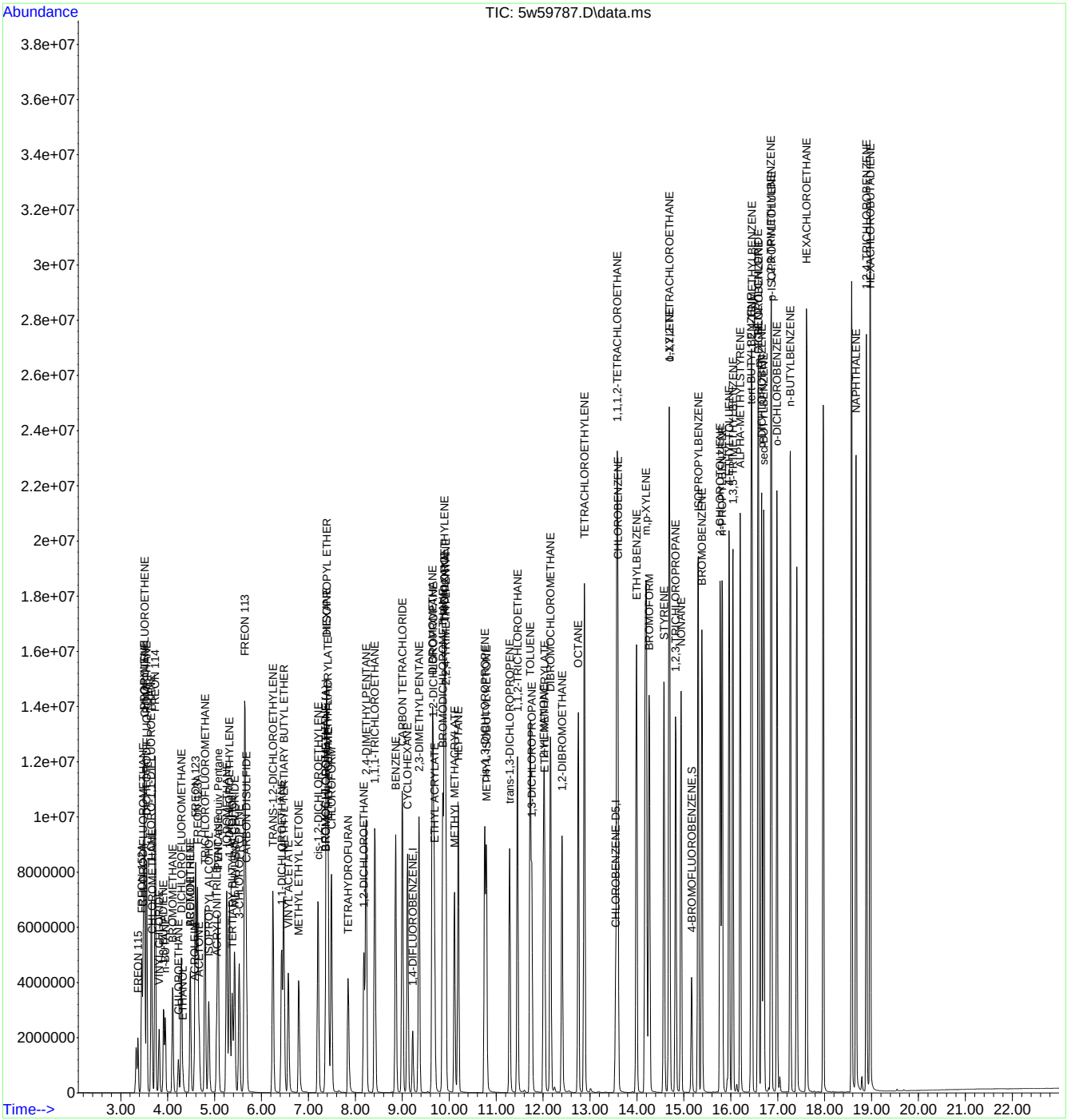
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

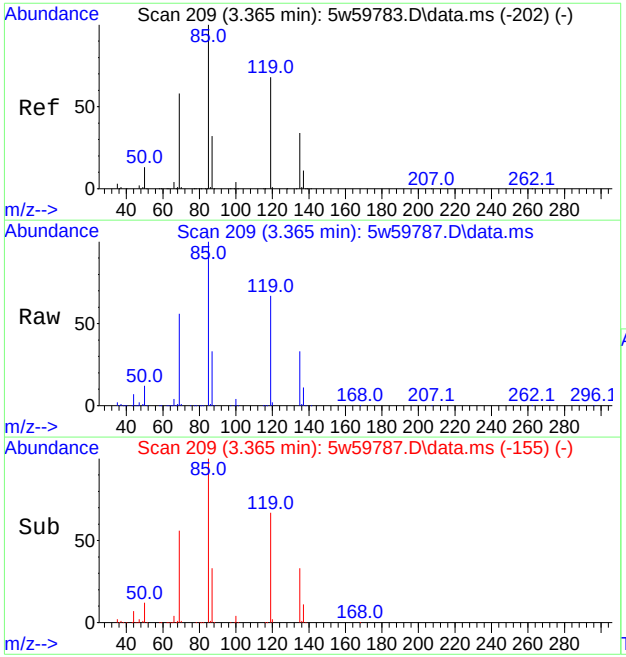
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

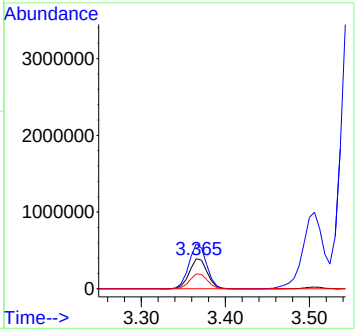


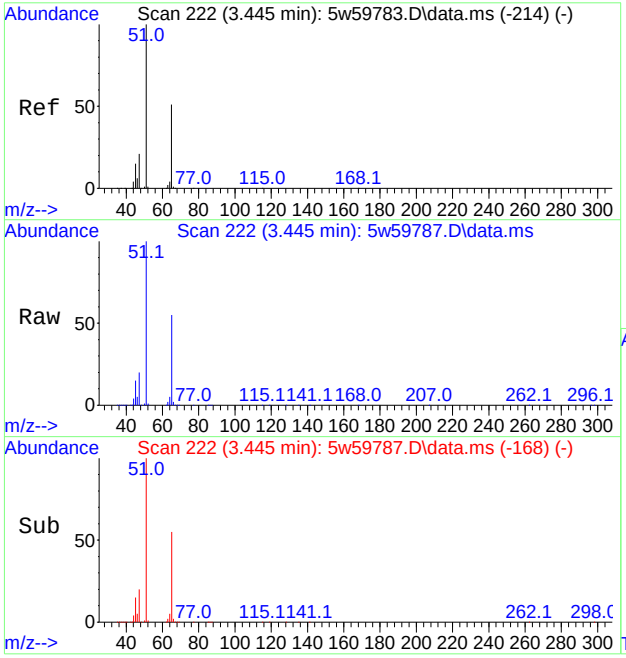


#2
FREON 115
Concen: 25.61 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:119 Resp: 581031

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.1	20.6	80.6

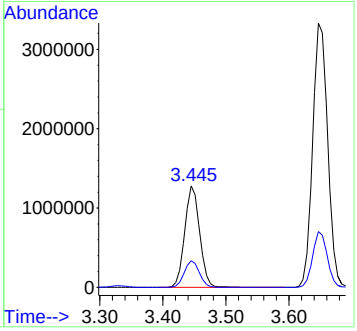


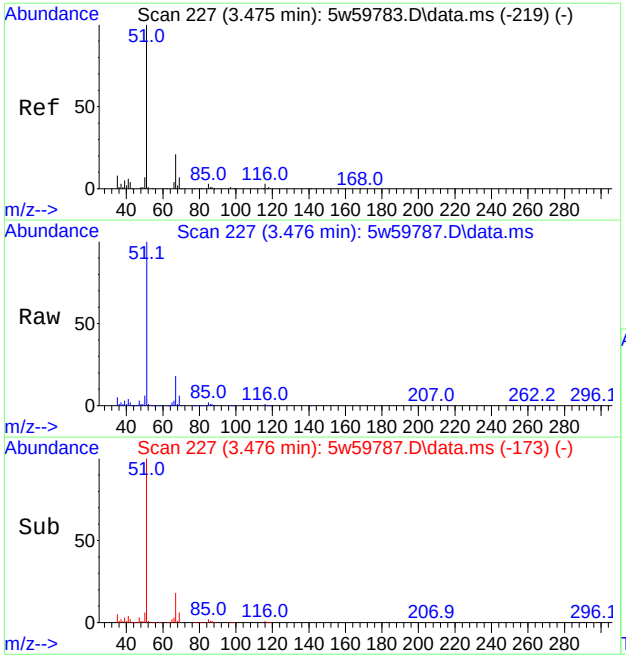


#3
FREON 152A
Concen: 69.10 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 2109561

Ion	Ratio	Lower	Upper
65	100		
45	26.7	0.0	60.0

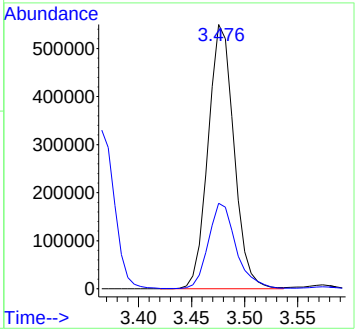


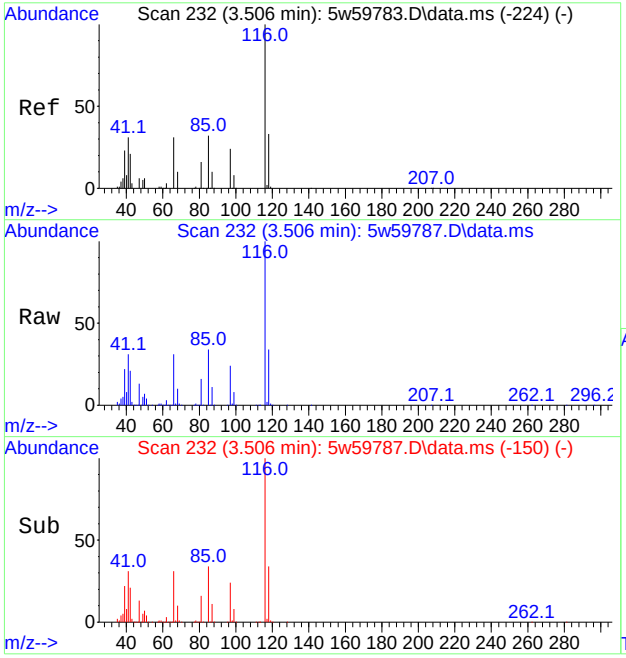


#4
CHLORODIFLUOROMETHANE
Concen: 63.03 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 930907

Ion	Ratio	Lower	Upper
67	100		
69	32.3	1.0	61.0

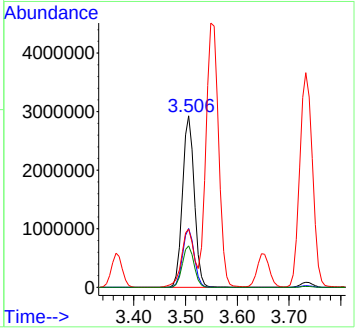


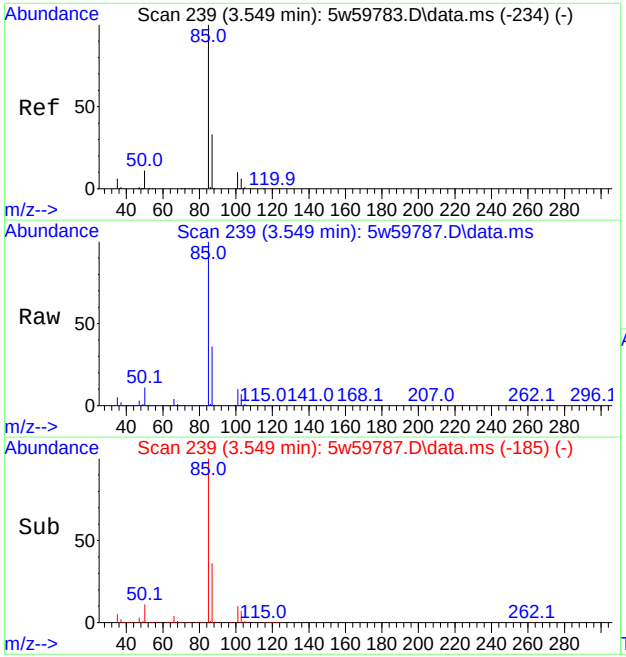


#5
CHLOROTRIFLUOROETHENE
Concen: 63.22 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:116 Resp: 4660403

Ion	Ratio	Lower	Upper
116	100		
118	33.9	22.9	42.5
85	36.8	23.7	44.1
97	24.2	17.0	31.6

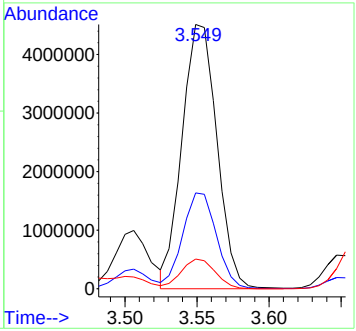


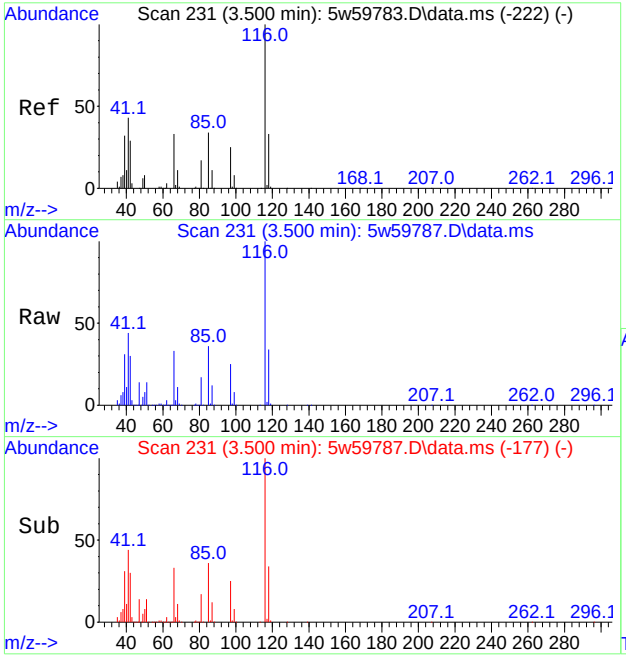


#6
DICHLORODIFLUOROMETHANE
Concen: 57.48 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 7605378

Ion	Ratio	Lower	Upper
85	100		
87	35.1	2.5	62.5
50	11.1	0.0	41.7

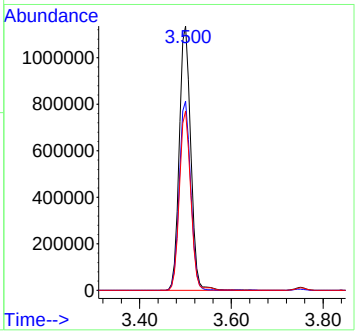


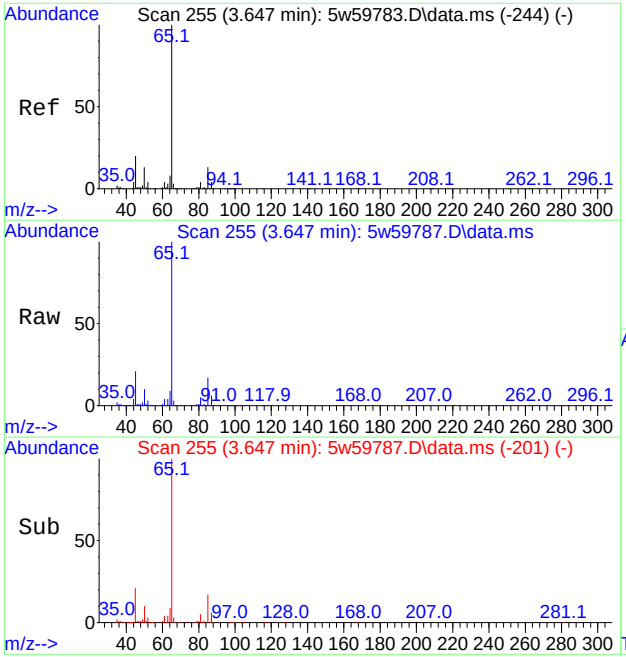


#7
PROPYLENE
Concen: 62.50 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1977365

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.3	36.3	96.3

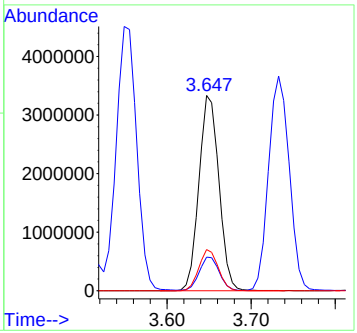


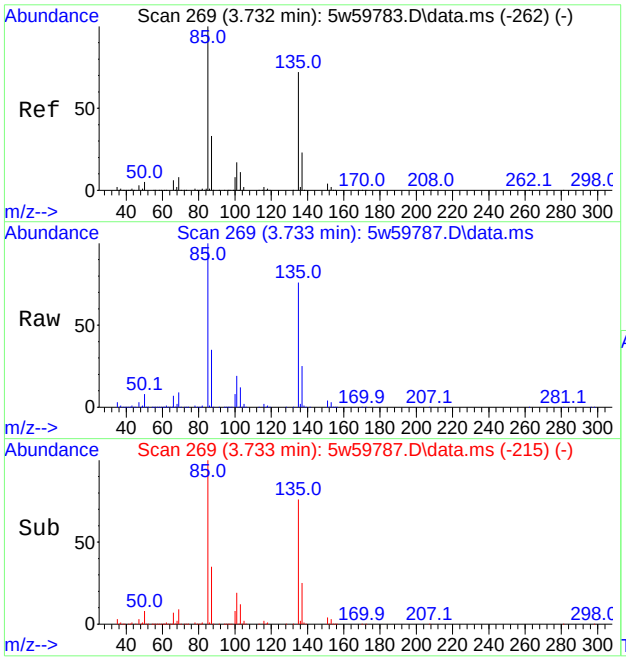


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 55.41 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 5527171

Ion	Ratio	Lower	Upper
65	100		
85	17.3	11.5	21.3
45	20.6	14.0	26.0

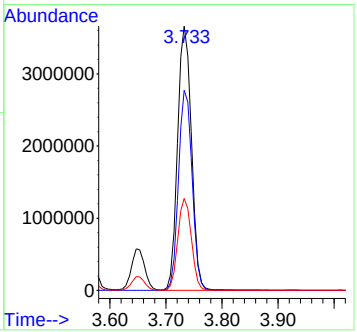


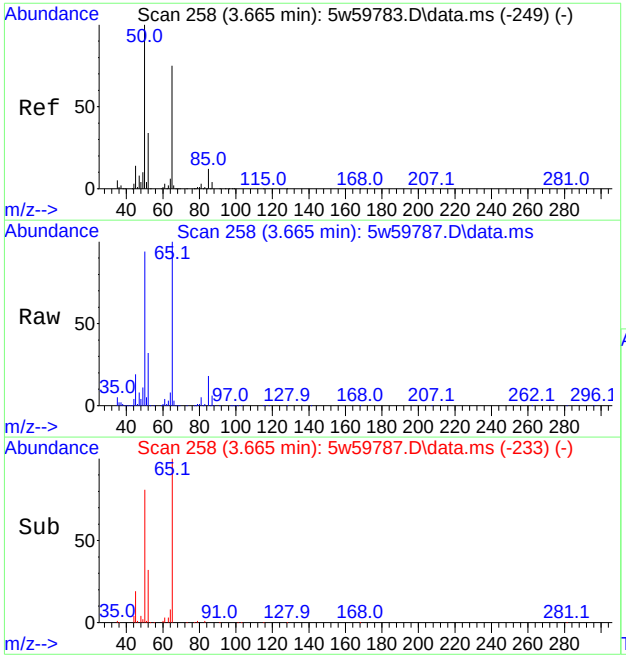


#9
FREON 114
Concen: 53.88 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 6296072

Ion	Ratio	Lower	Upper
85	100		
135	74.5	40.5	100.5
87	34.1	3.0	63.0

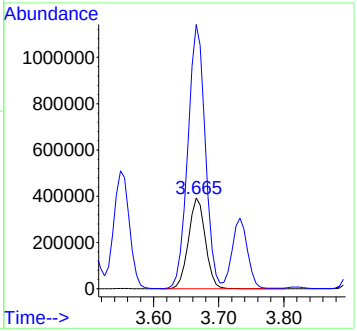


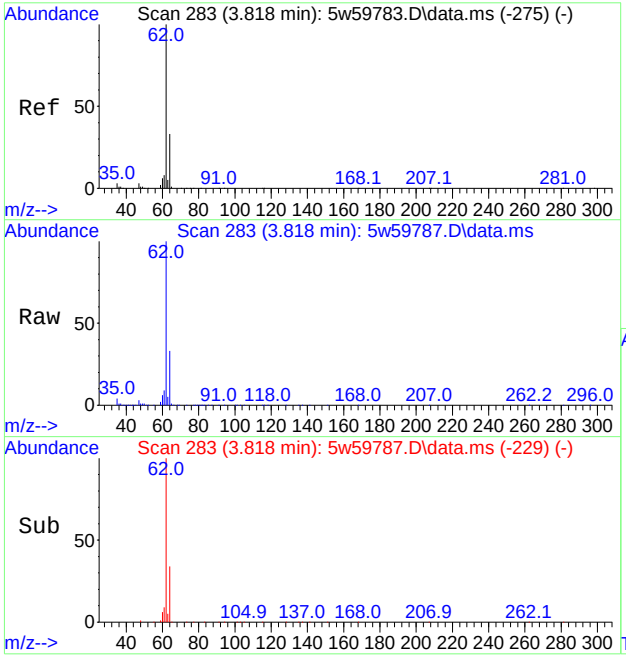


#10
CHLOROMETHANE
Concen: 54.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 706786

Ion	Ratio	Lower	Upper
52	100		
50	290.3	267.9	327.9

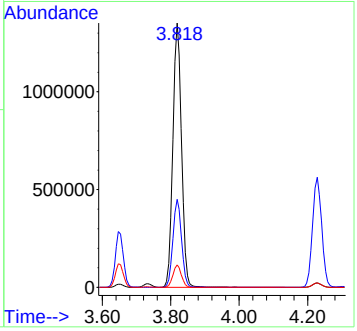


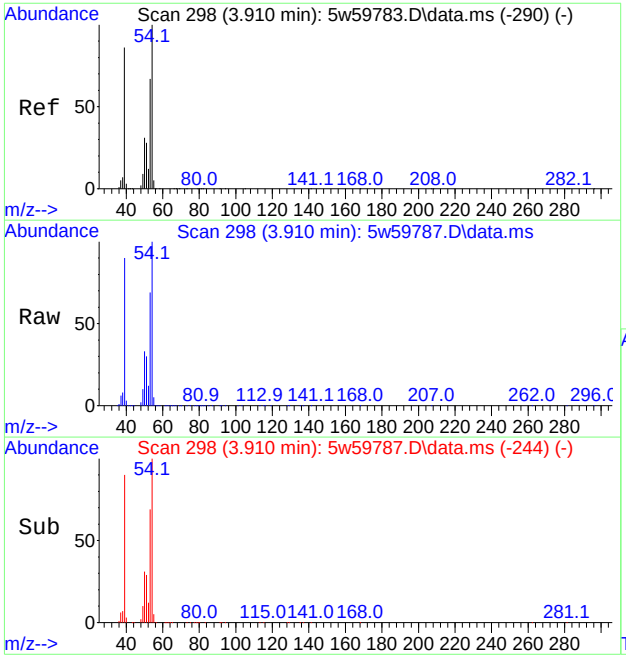


#11
VINYL CHLORIDE
Concen: 54.50 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 2396129

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

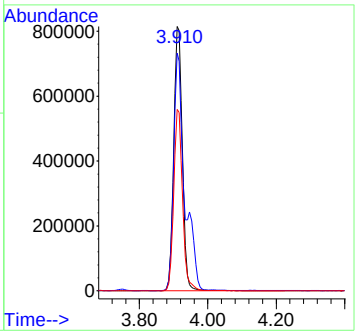


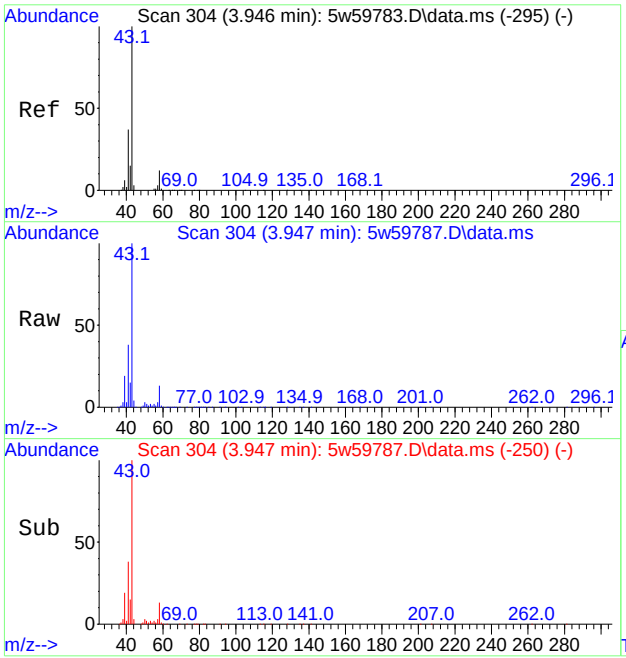


#12
1,3-BUTADIENE
Concen: 57.20 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 54 Resp: 1434792

Ion	Ratio	Lower	Upper
54	100		
39	115.1	82.0	142.0
53	70.3	40.2	100.2

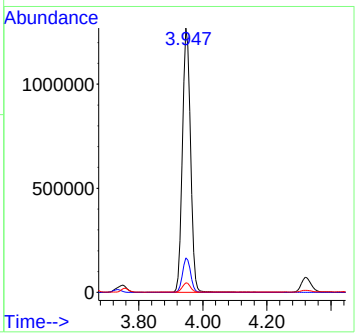


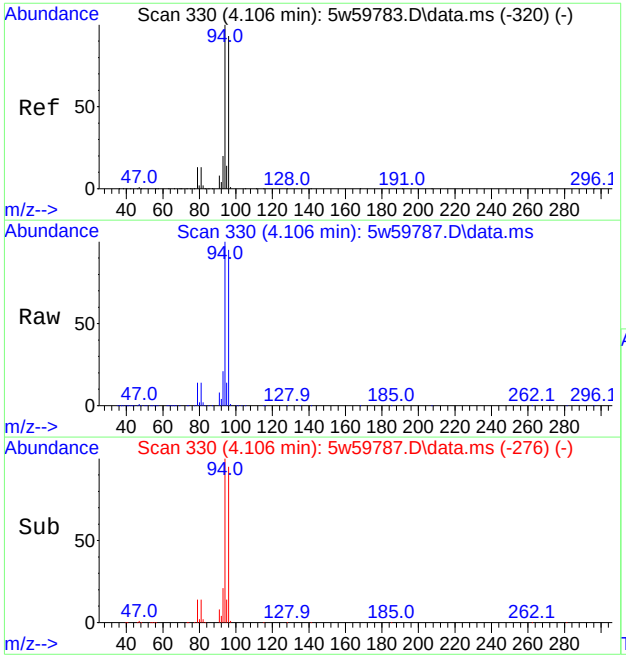


#13
n-BUTANE
Concen: 56.04 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 2229721

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.6	0.0	34.9

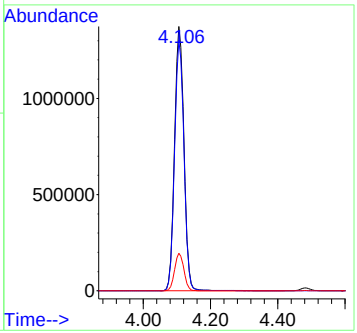


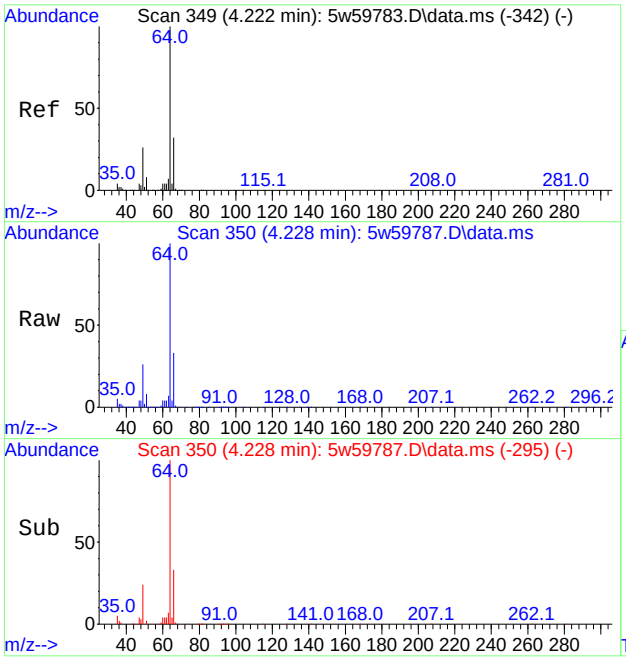


#14
BROMOMETHANE
Concen: 57.99 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 94 Resp: 2666902

Ion	Ratio	Lower	Upper
94	100		
96	94.9	65.3	125.3
95	14.2	0.0	44.1

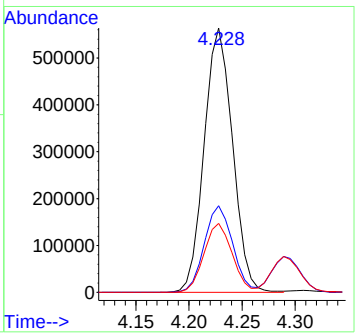


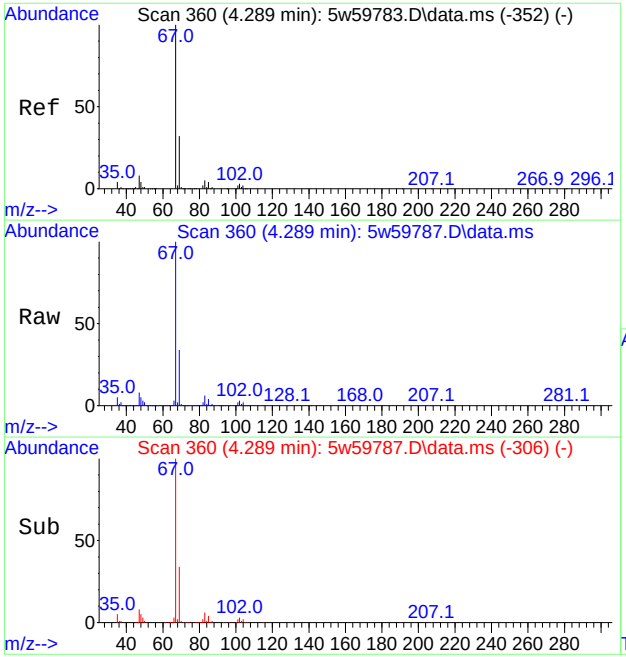


#15
CHLOROETHANE
Concen: 54.16 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 64 Resp: 1048912

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

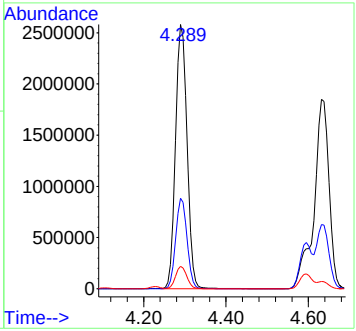


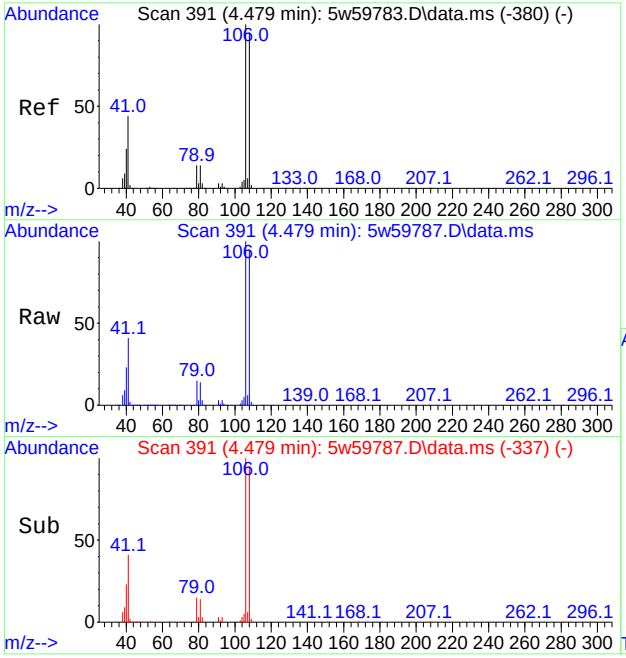


#16
DICHLOROFLUOROMETHANE
Concen: 54.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 5025383

Ion	Ratio	Lower	Upper
67	100		
69	33.7	22.7	42.3
47	8.4	5.6	10.4

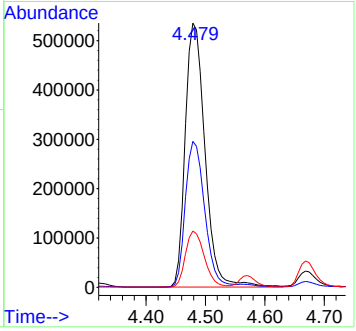


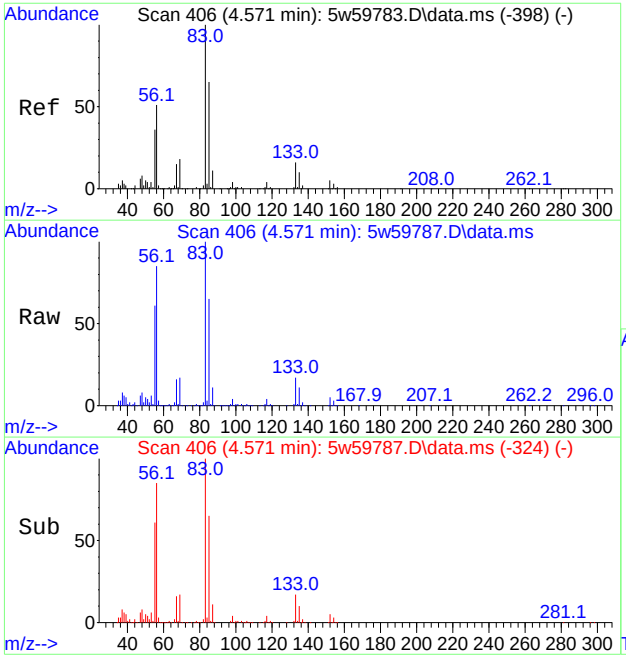


#17
ACETONITRILE
Concen: 52.74 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1245621

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.3	13.4	24.8

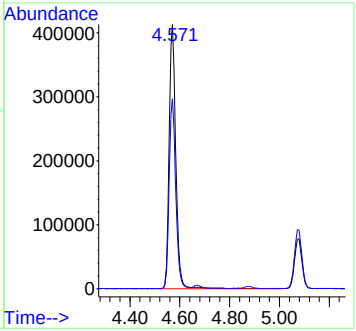


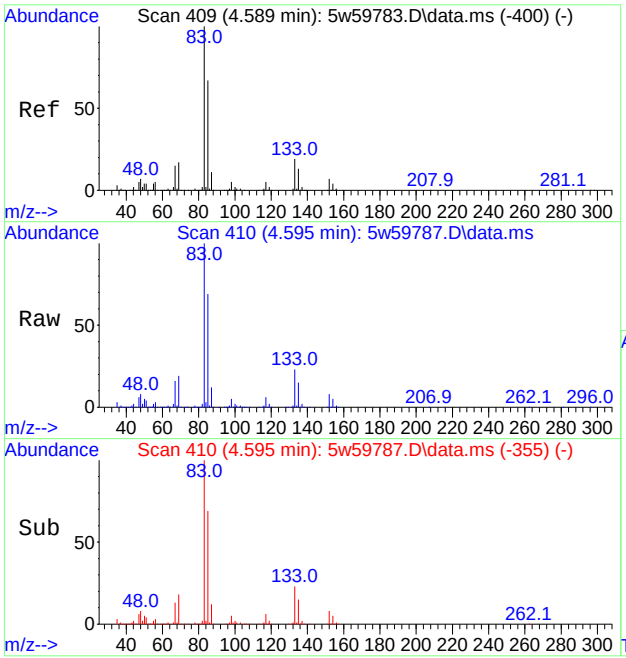


#18
ACROLEIN
Concen: 54.68 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 56 Resp: 762905

Ion	Ratio	Lower	Upper
56	100		
55	70.9	46.6	86.6

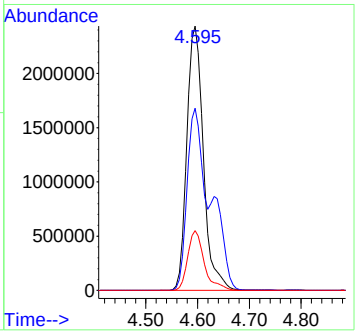


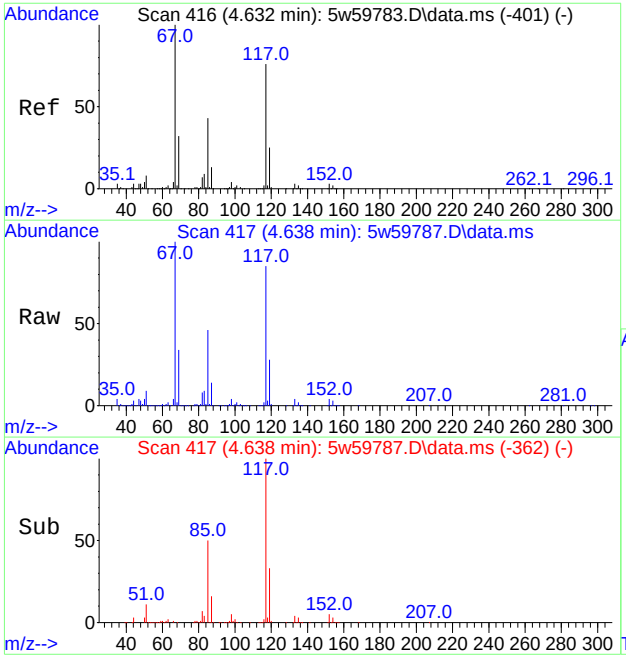


#19
FREON 123
Concen: 53.17 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 5407858

Ion	Ratio	Lower	Upper
83	100		
85	67.6	34.0	94.0
133	22.7	0.0	50.7

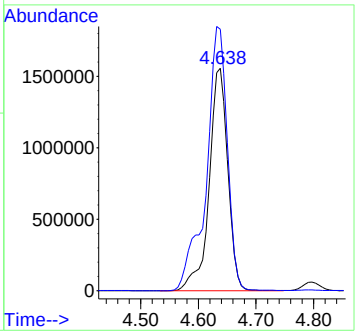


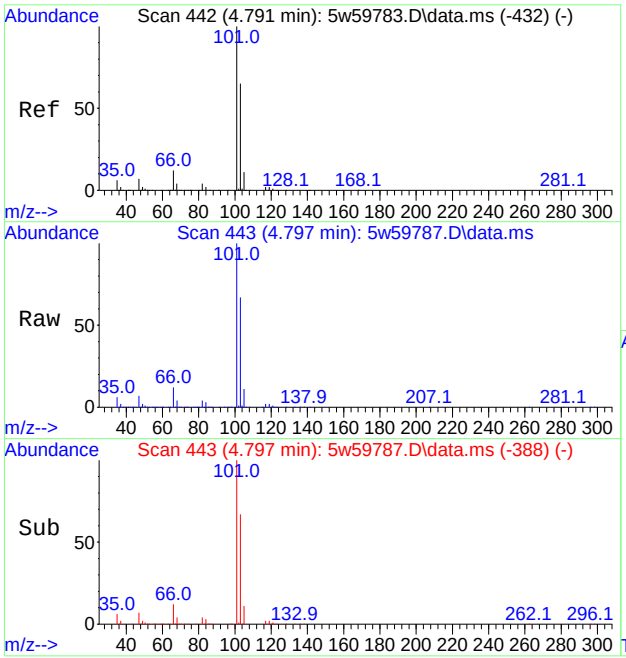


#20
FREON 123A
Concen: 57.82 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 3495792

Ion	Ratio	Lower	Upper
117	100		
67	134.2	114.6	174.6

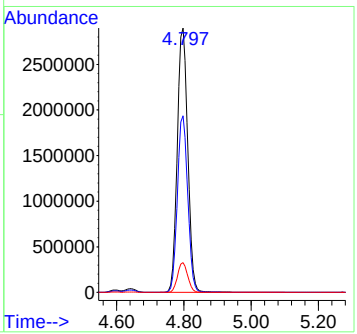


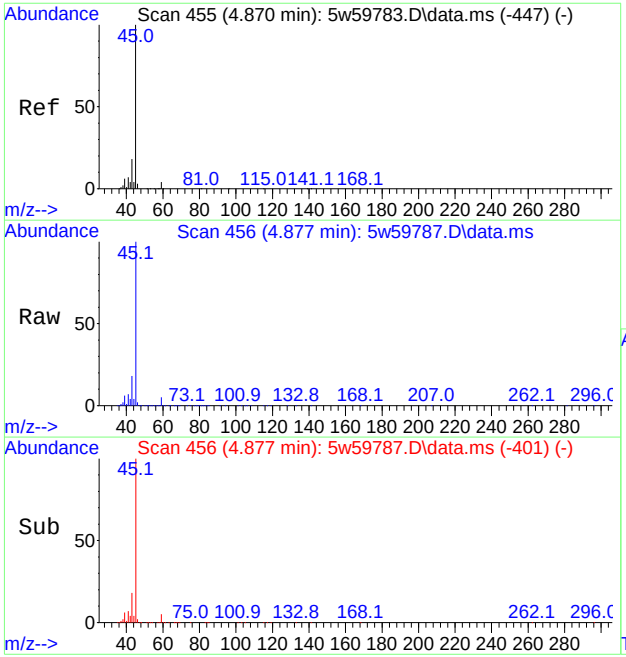


#21
TRICHLOROFLUOROMETHANE
Concen: 56.50 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:101 Resp: 6263951

Ion	Ratio	Lower	Upper
101	100		
103	66.2	35.0	95.0
105	11.1	0.0	40.7

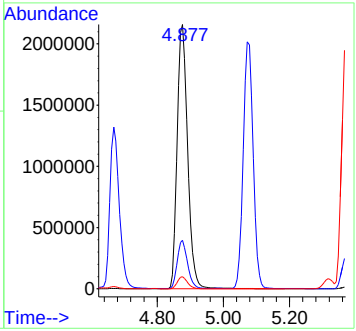


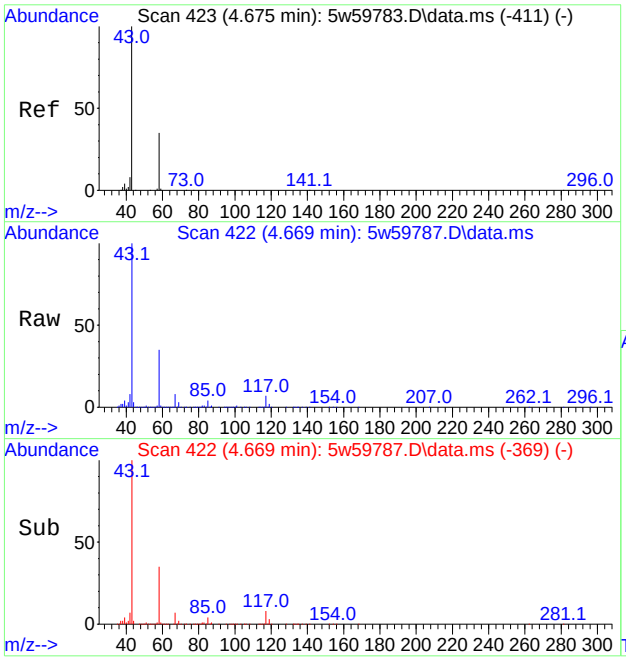


#22
ISOPROPYL ALCOHOL
Concen: 59.23 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 4774264

Ion	Ratio	Lower	Upper
45	100		
43	18.3	0.0	47.8
59	4.5	0.0	34.1

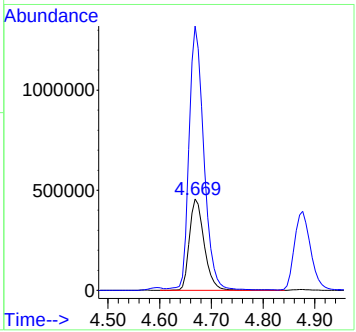


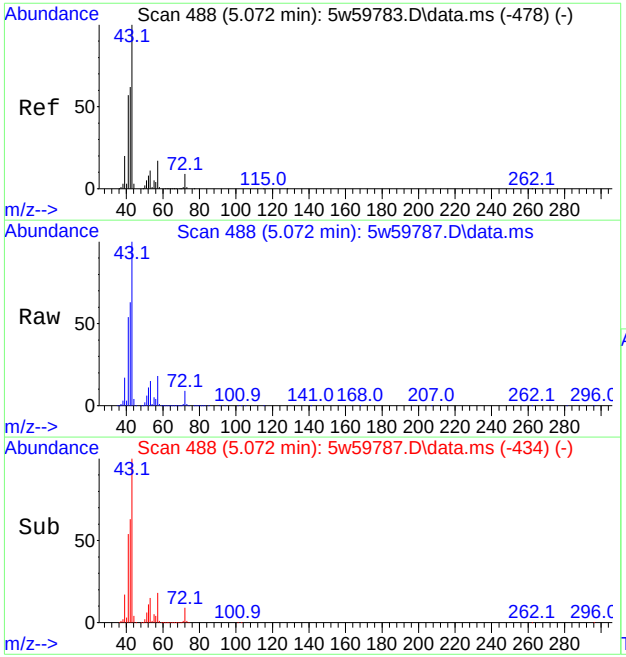


#23
ACETONE
Concen: 55.35 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 909361

Ion	Ratio	Lower	Upper
58	100		
43	286.4	252.3	312.3

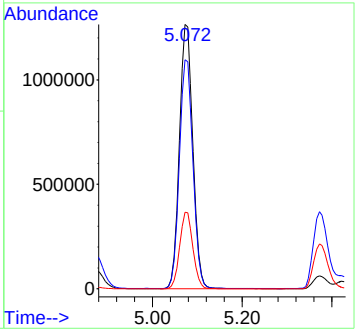


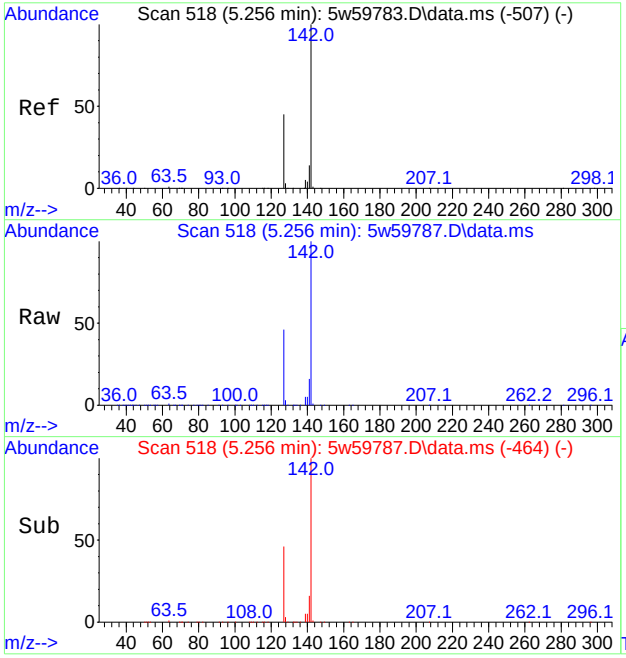


#24
PENTANE
Concen: 64.00 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 42 Resp: 2631624

Ion	Ratio	Lower	Upper
42	100		
41	88.0	62.3	122.3
57	28.7	0.0	57.7

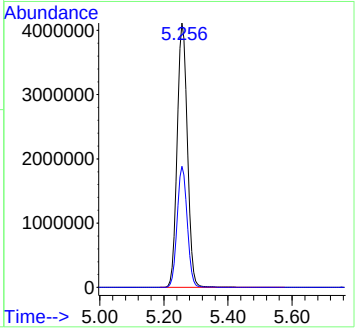


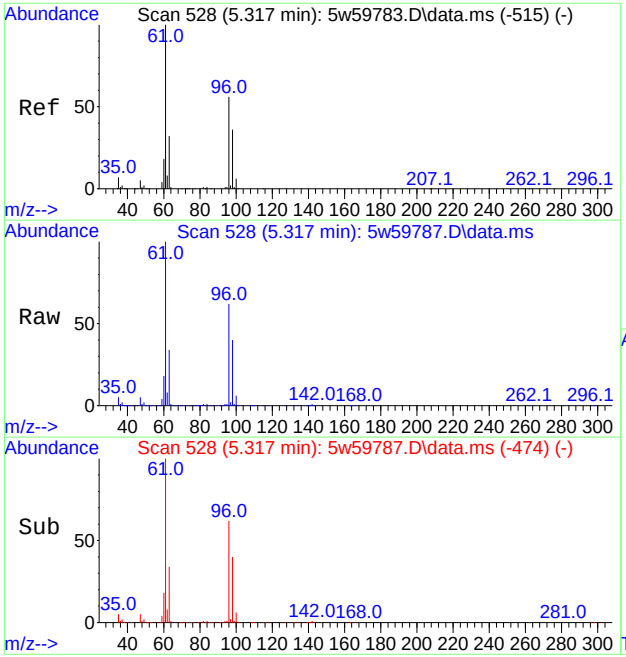


#25
IODOMETHANE
Concen: 64.39 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:142 Resp: 9114140

Ion	Ratio	Lower	Upper
142	100		
127	45.3	16.0	76.0

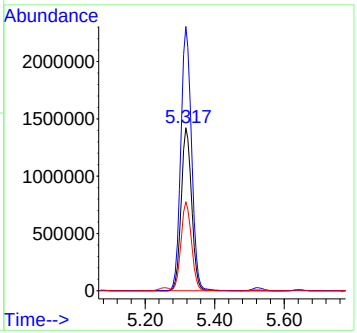


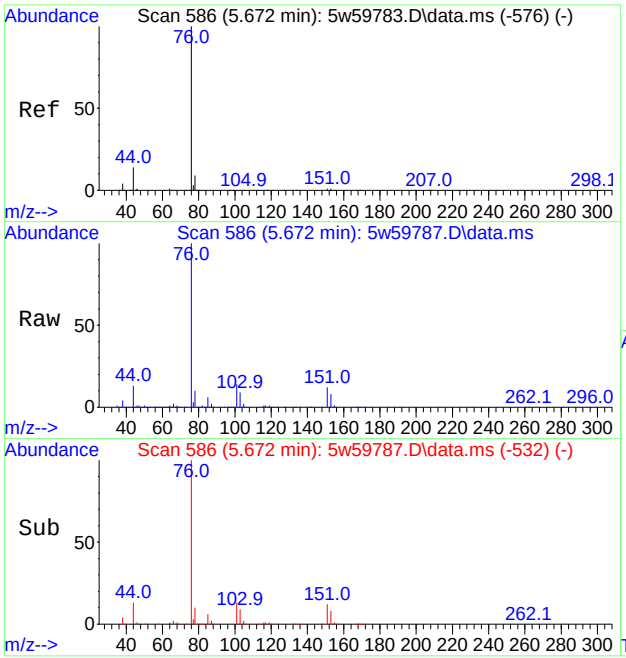


#26
1,1-DICHLOROETHYLENE
Concen: 64.07 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 2972573

Ion	Ratio	Lower	Upper
96	100		
61	166.3	148.5	208.5
63	55.0	27.4	87.4

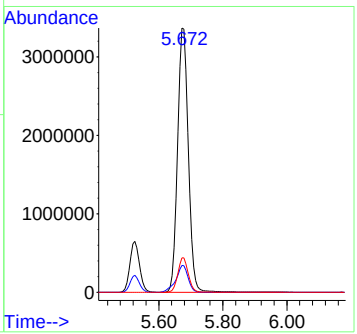


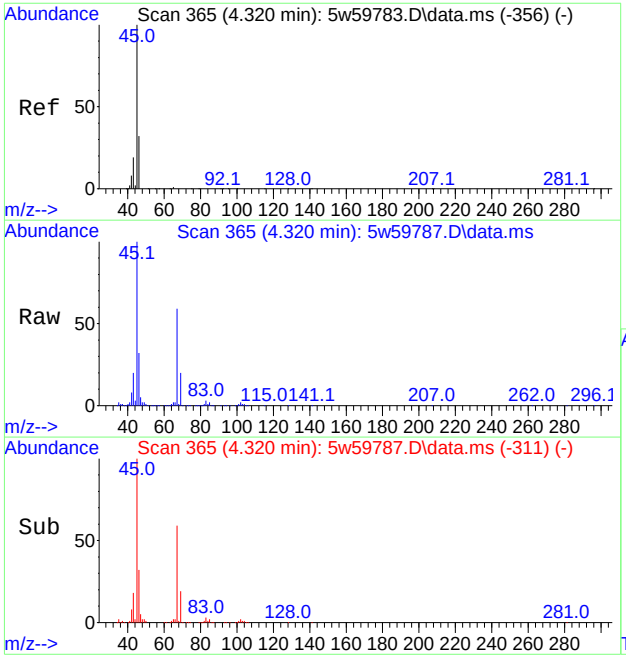


#27
CARBON DISULFIDE
Concen: 61.73 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 7844304

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	12.8	0.0	44.6

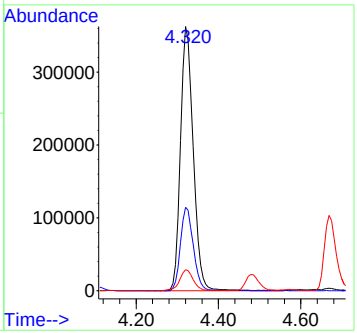


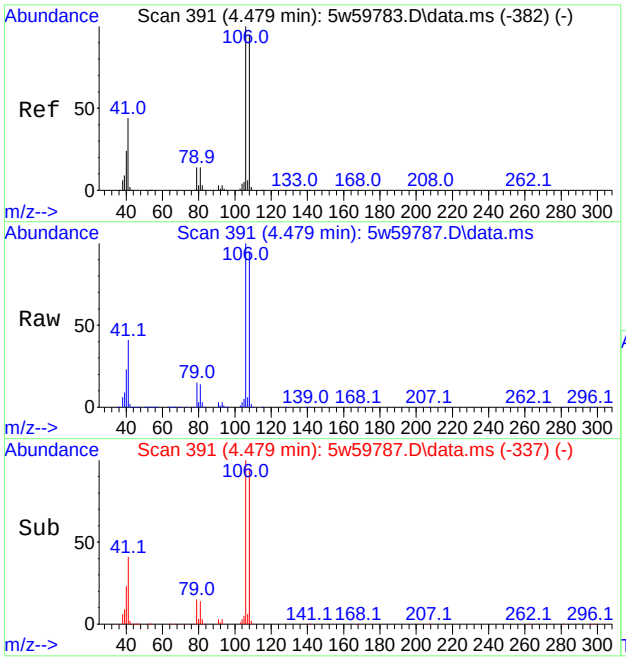


#28
ETHANOL
Concen: 51.79 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 782956

Ion	Ratio	Lower	Upper
45	100		
46	31.9	2.0	62.0
42	8.5	0.0	38.5

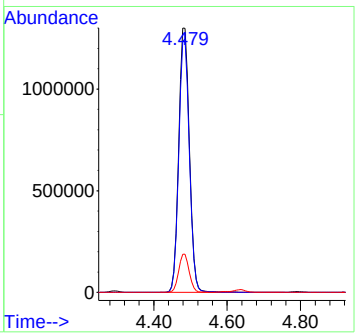


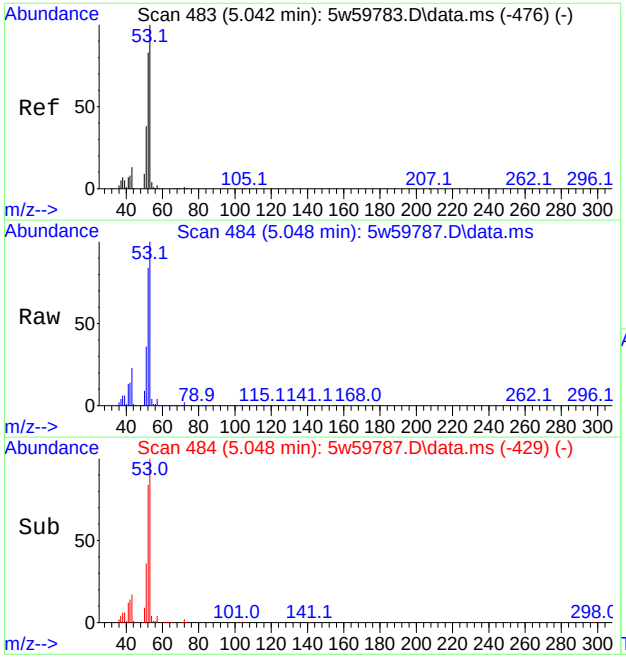


#29
BROMOETHENE
Concen: 57.30 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 2638149

Ion	Ratio	Lower	Upper
106	100		
108	95.2	65.6	125.6
81	14.3	0.0	43.9

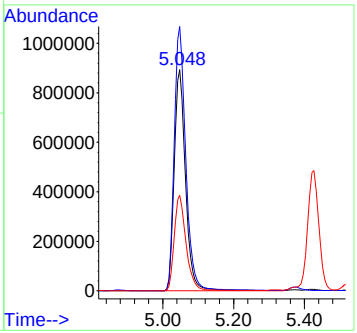


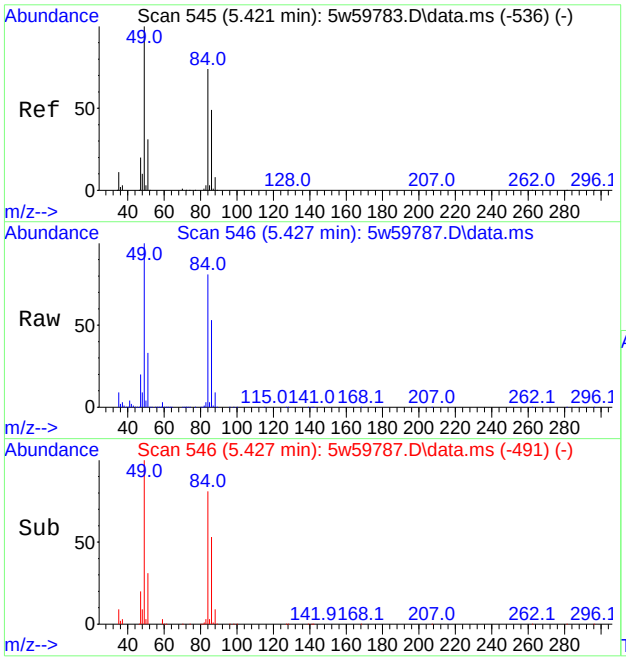


#30
ACRYLONITRILE
Concen: 68.16 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 1983513

Ion	Ratio	Lower	Upper
52	100		
53	121.8	85.8	159.4
51	45.1	32.3	60.1

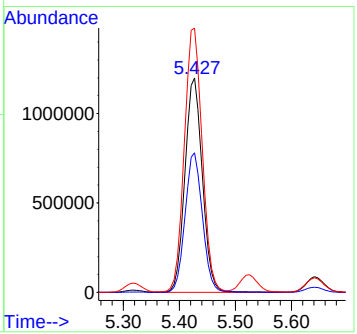


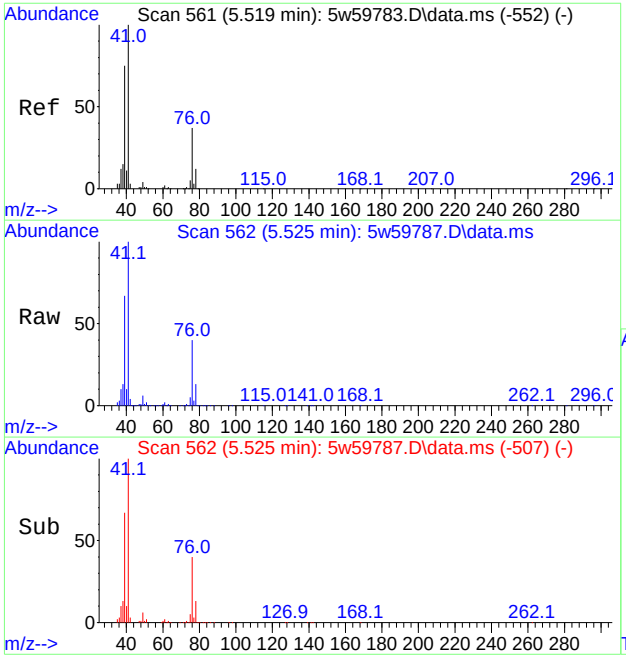


#31
METHYLENE CHLORIDE
Concen: 62.87 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 2586702

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	126.9	105.3	165.3

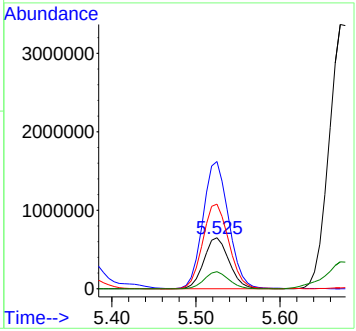


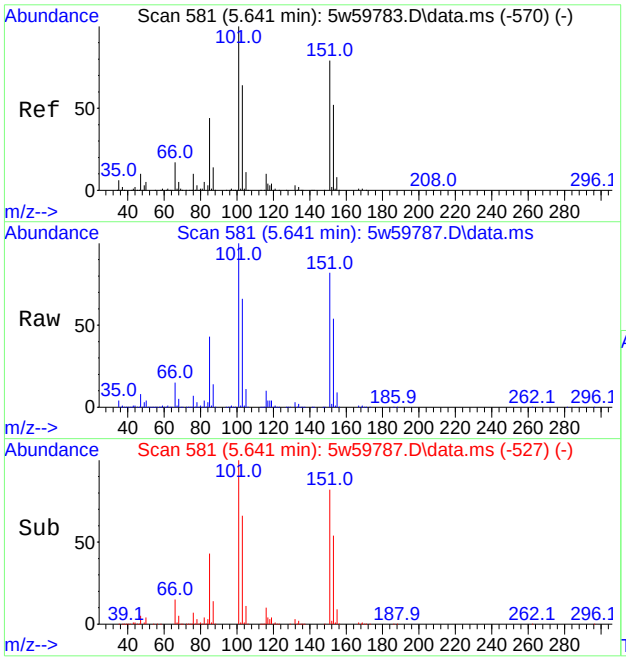


#32
3-CHLOROPROPENE
Concen: 64.21 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 1356999

Ion	Ratio	Lower	Upper
76	100		
41	255.7	240.8	300.8
39	172.9	173.6	233.6#
78	32.9	2.8	62.8

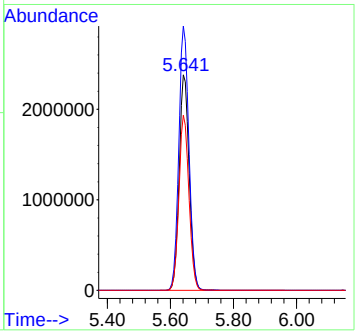


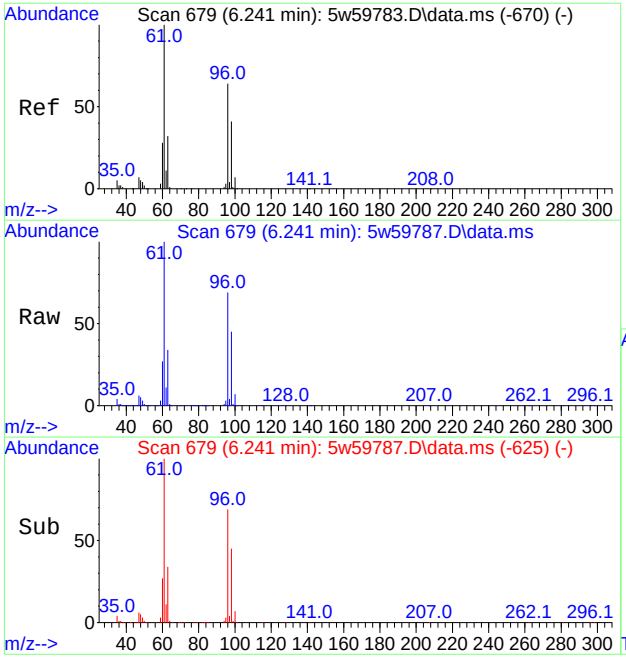


#33
FREON 113
Concen: 62.99 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:151 Resp: 5255099

Ion	Ratio	Lower	Upper
151	100		
101	124.0	97.5	157.5
103	81.5	52.5	112.5

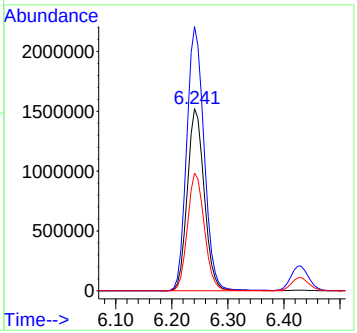


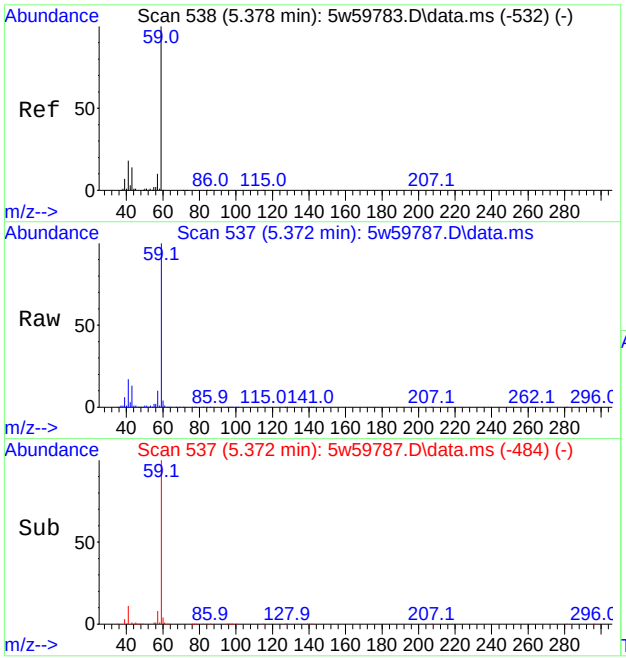


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 65.25 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3195584

Ion	Ratio	Lower	Upper
96	100		
61	148.6	126.4	186.4
98	64.5	34.1	94.1

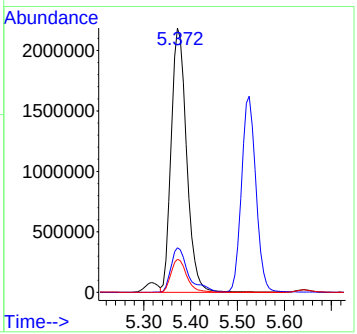


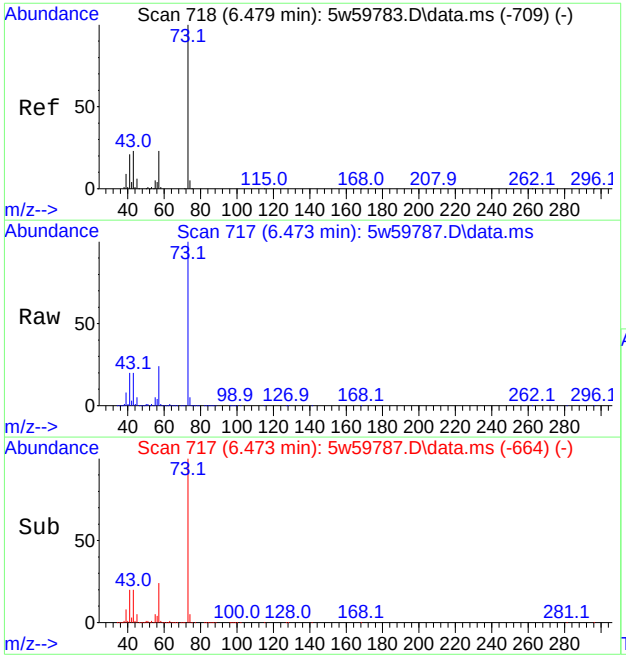


#35
TERTIARY BUTYL ALCOHOL
Concen: 52.68 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 4989539

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	12.7	0.0	44.1

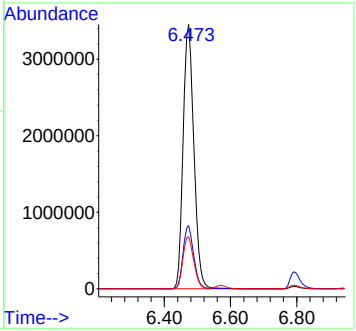


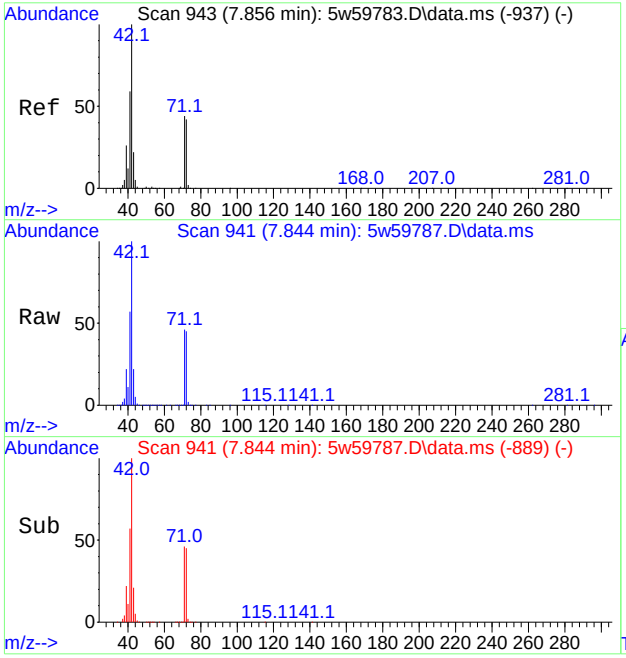


#36
METHYL TERTIARY BUTYL ETHER
Concen: 63.24 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 73 Resp: 7764187

Ion	Ratio	Lower	Upper
73	100		
57	23.5	0.0	53.1
41	19.8	0.0	50.6

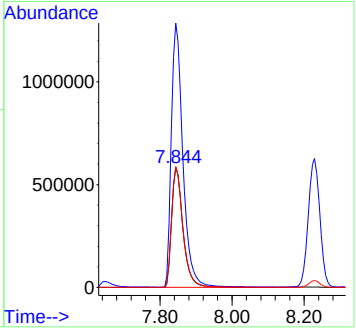


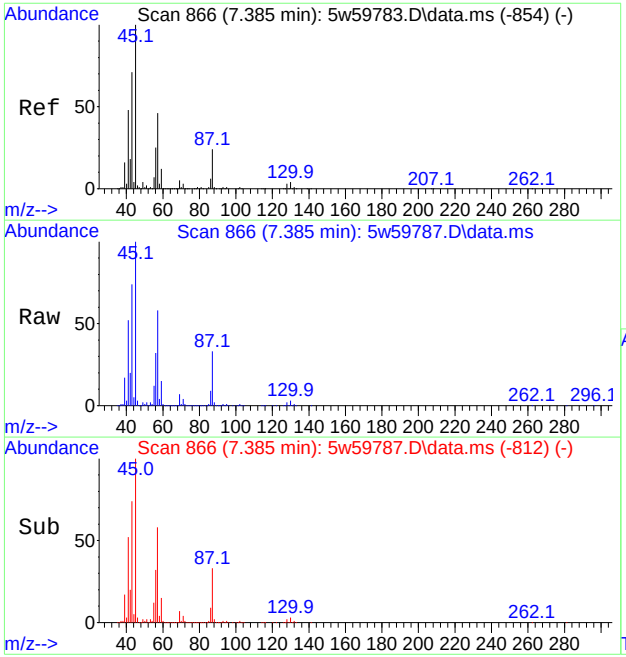


#37
TETRAHYDROFURAN
Concen: 65.77 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1279396

Ion	Ratio	Lower	Upper
72	100		
42	223.5	202.4	262.4
71	100.6	71.1	131.1

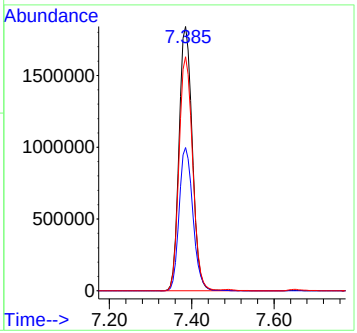


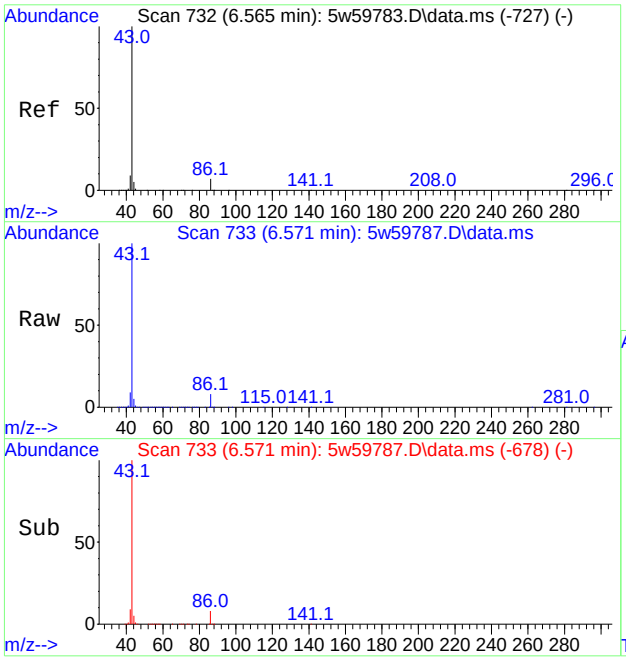


#38
HEXANE
Concen: 58.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 4098725

Ion	Ratio	Lower	Upper
57	100		
56	56.6	25.9	85.9
41	91.2	74.7	134.7

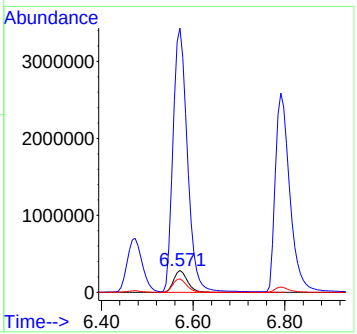


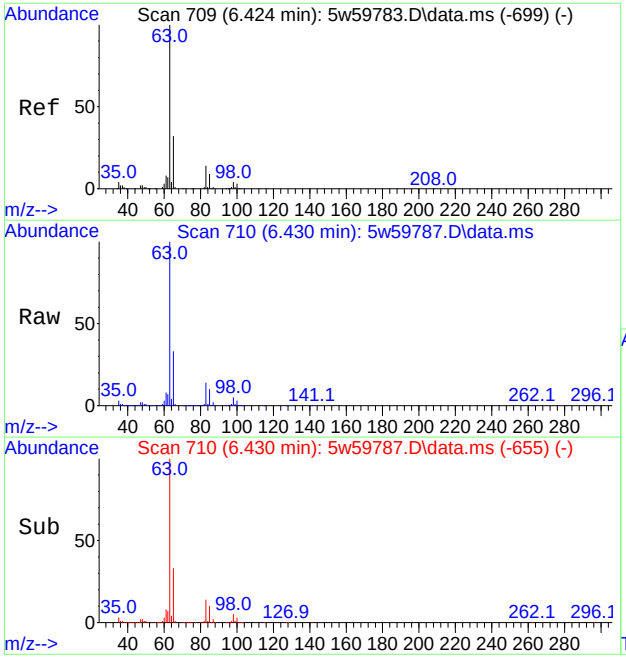


#39
VINYL ACETATE
Concen: 69.16 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 86 Resp: 595335

Ion	Ratio	Lower	Upper
86	100		
43	1251.0	1379.7	1439.7#
44	62.3	36.9	96.9

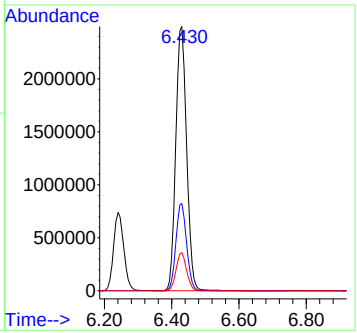


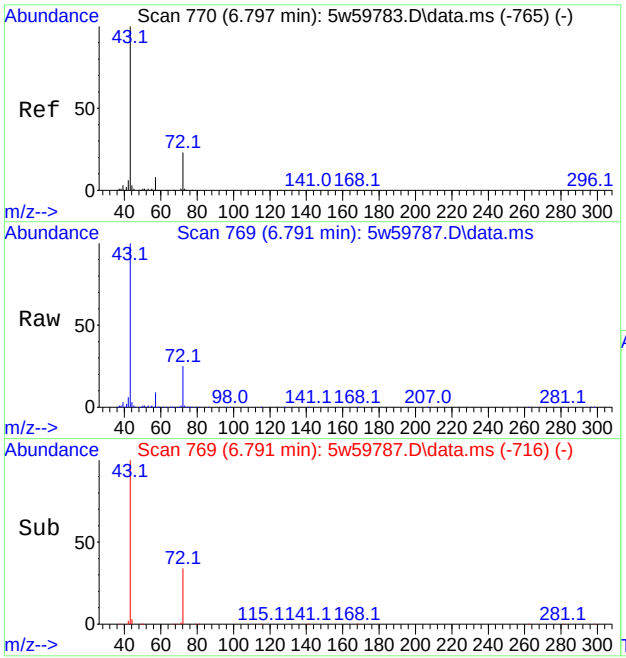


#40
1,1-DICHLOROETHANE
Concen: 63.37 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 5580661

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.7	61.7
83	14.0	0.0	43.5

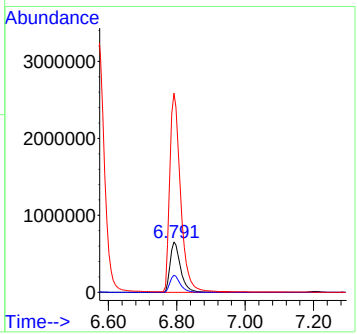


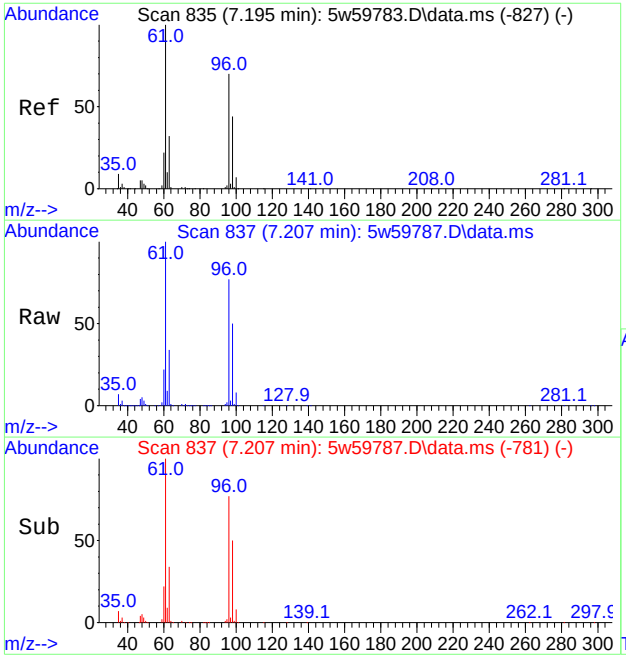


#41
METHYL ETHYL KETONE
Concen: 68.19 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1403846

Ion	Ratio	Lower	Upper
72	100		
57	34.0	4.8	64.8
43	394.5	415.9	475.9#

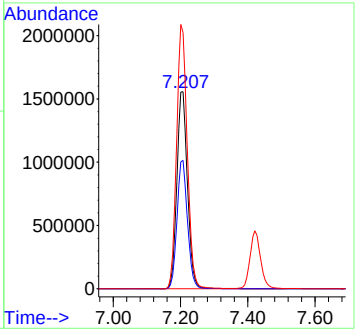


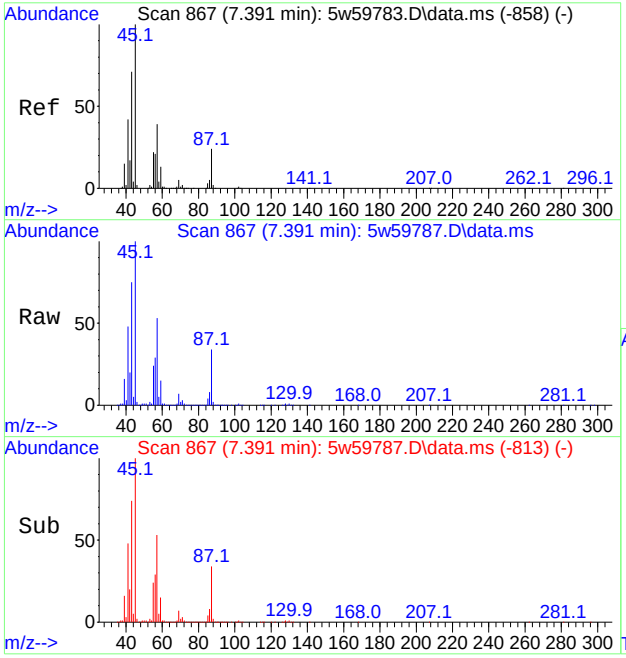


#42
cis-1,2-DICHLOROETHYLENE
Concen: 66.53 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3406006

Ion	Ratio	Lower	Upper
96	100		
98	64.6	34.0	94.0
61	134.9	111.5	171.5

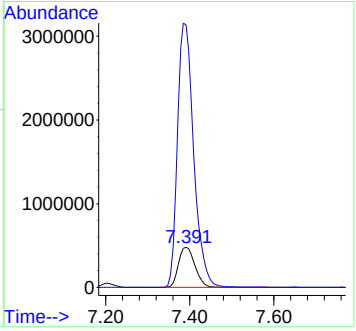


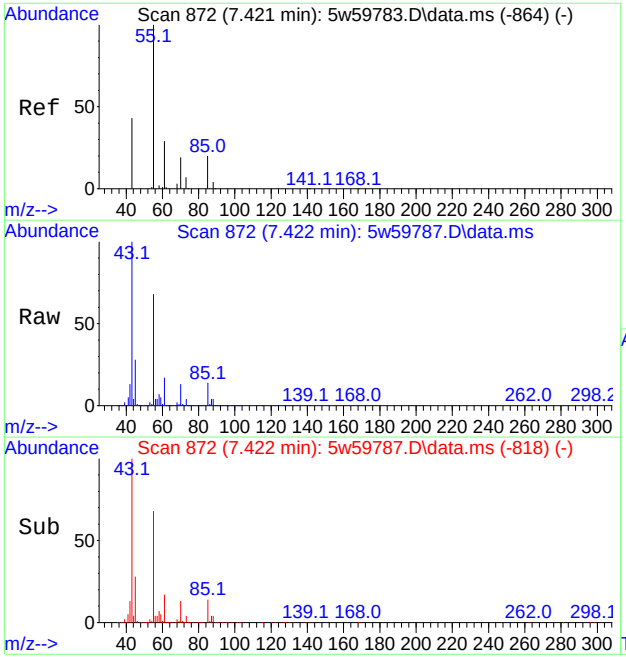


#43
DIISOPROPYL ETHER
Concen: 59.80 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 1304563

Ion	Ratio	Lower	Upper
59	100		
45	649.0	720.9	780.9#

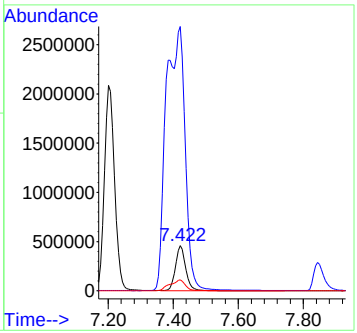


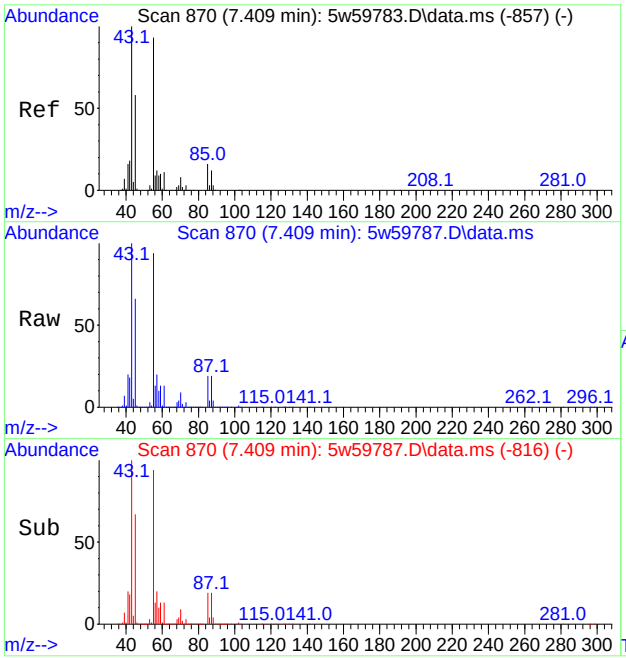


#44
ETHYL ACETATE
Concen: 62.87 PPBV m
RT: 7.422 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 61 Resp: 1009100

Ion	Ratio	Lower	Upper
61	100		
43	545.0	560.5	620.5#
88	36.8	4.5	64.5

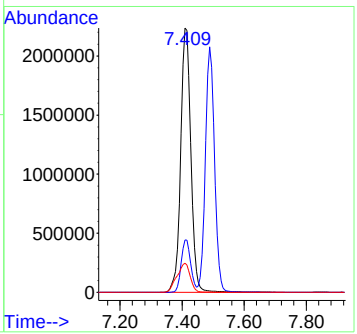


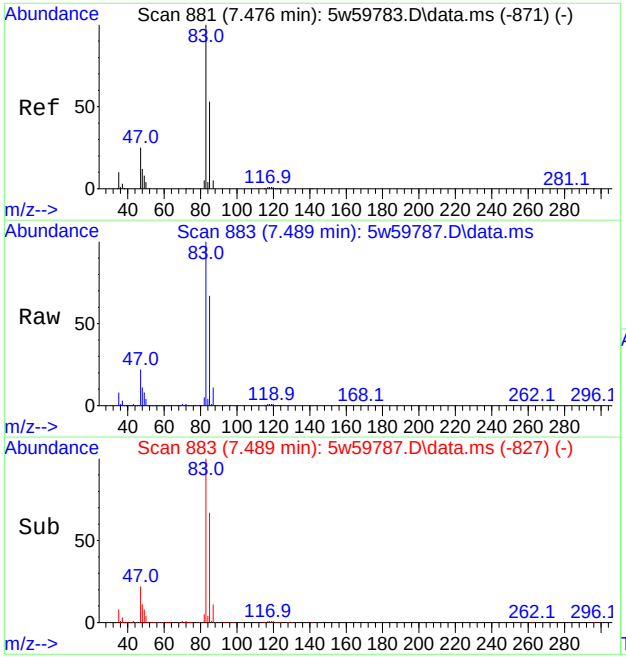


#45
METHYL ACRYLATE
Concen: 59.04 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 5147084

Ion	Ratio	Lower	Upper
55	100		
85	18.4	10.9	20.3
58	14.2	9.4	17.6

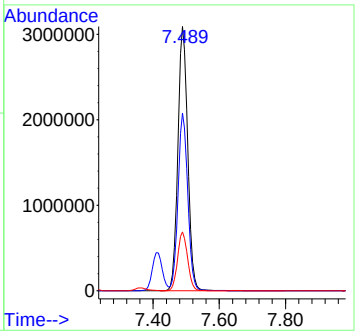


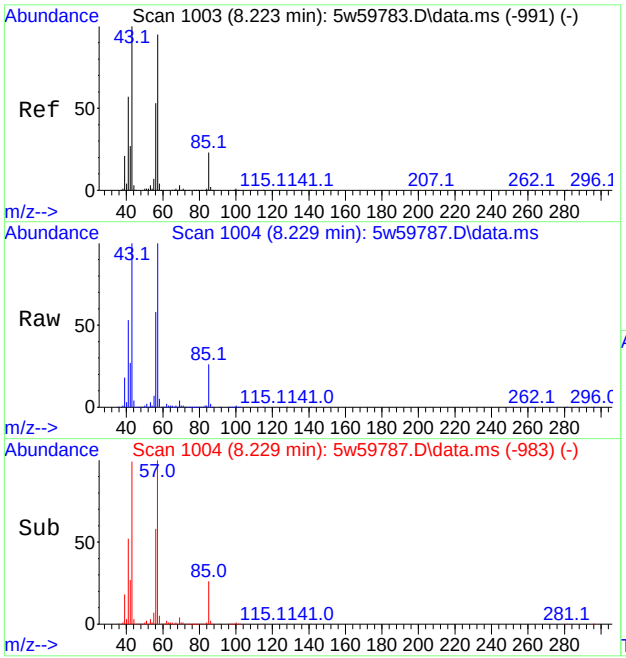


#46
CHLOROFORM
Concen: 62.45 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 6393103

Ion	Ratio	Lower	Upper
83	100		
85	66.7	35.6	95.6
47	22.7	0.0	55.2

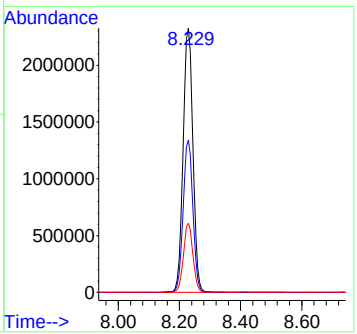


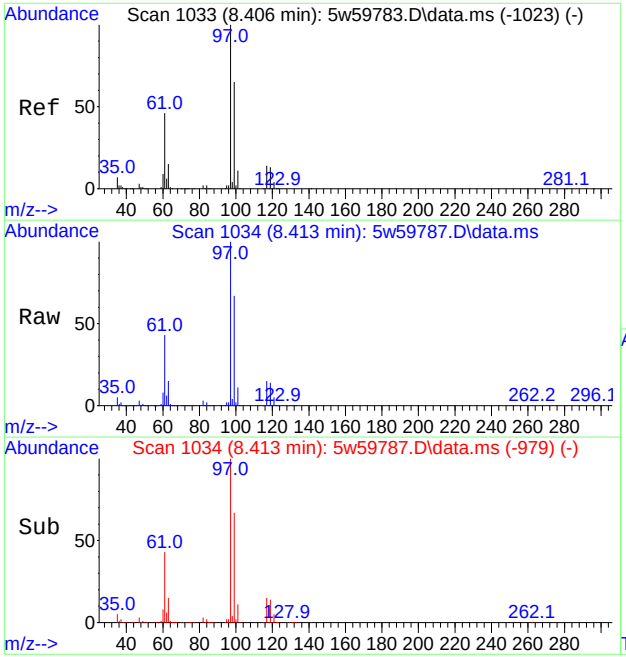


#47
2,4-DIMETHYLPENTANE
Concen: 62.87 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 5181431

Ion	Ratio	Lower	Upper
57	100		
56	57.5	26.5	86.5
85	25.4	0.0	53.8

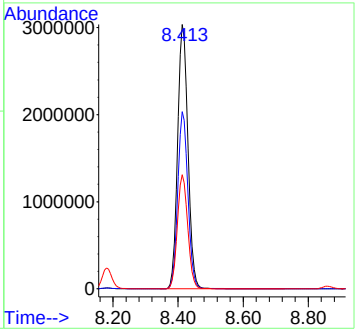


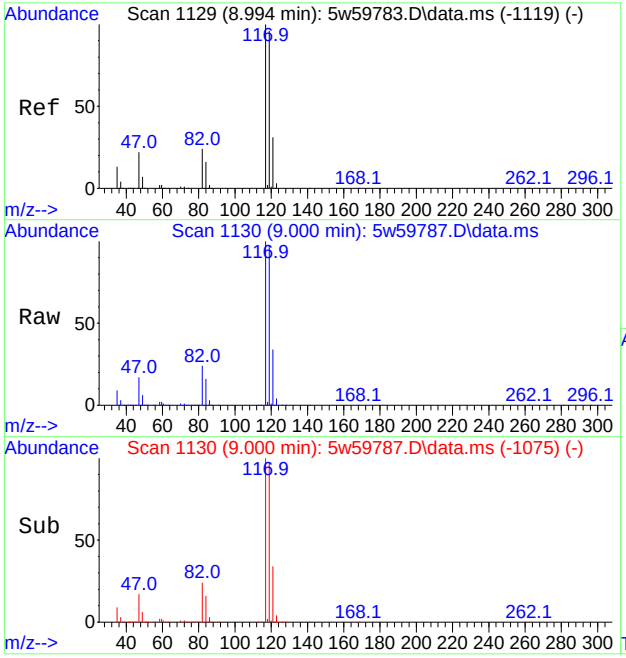


#48
1,1,1-TRICHLOROETHANE
Concen: 62.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 97 Resp: 6744194

Ion	Ratio	Lower	Upper
97	100		
99	66.0	34.8	94.8
61	43.4	15.8	75.8

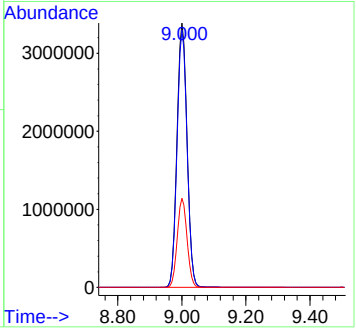


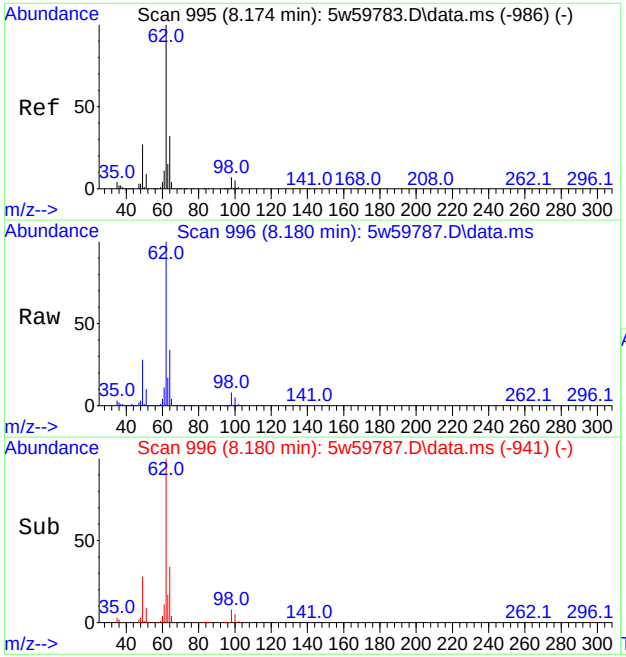


#49
CARBON TETRACHLORIDE
Concen: 61.67 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 7391895

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	32.8	1.3	61.3

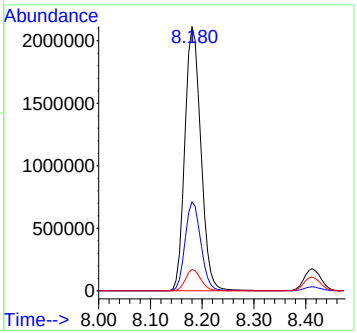


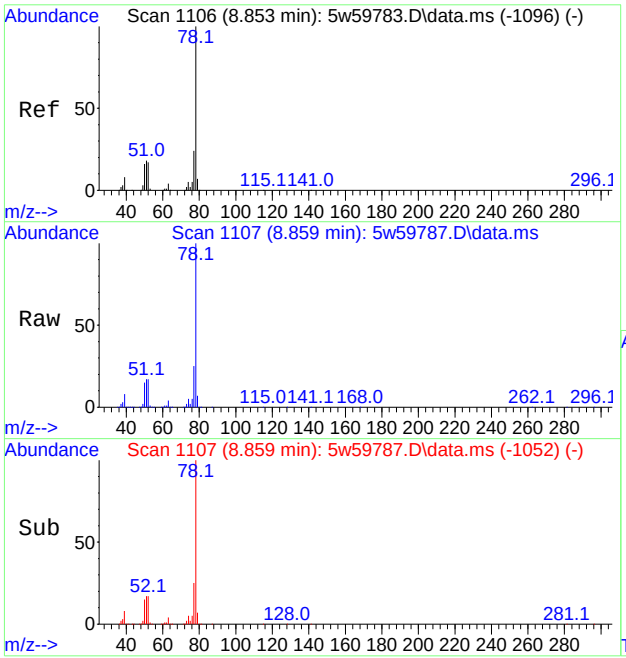


#50
1,2-DICHLOROETHANE
Concen: 62.85 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 4560398

Ion	Ratio	Lower	Upper
62	100		
64	33.2	2.3	62.3
98	7.7	0.0	36.9

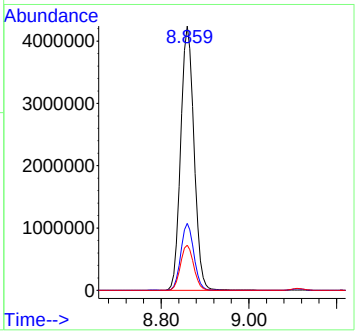


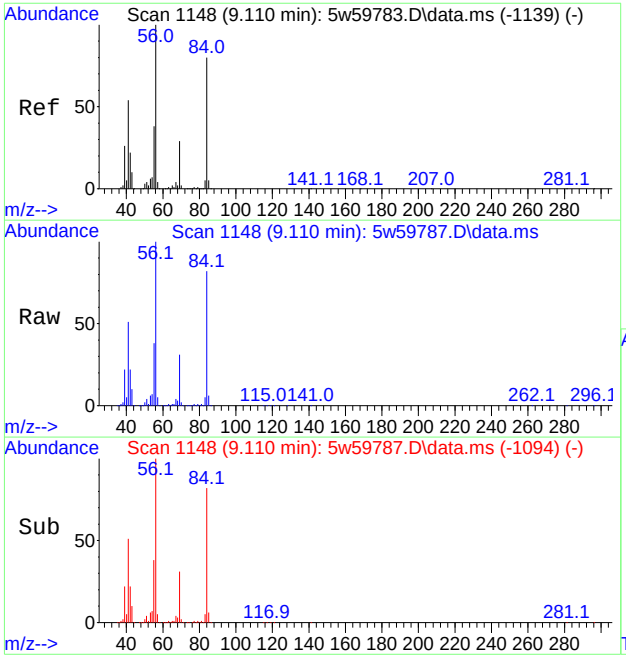


#52
BENZENE
Concen: 67.41 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 78 Resp: 8949189

Ion	Ratio	Lower	Upper
78	100		
77	24.7	0.0	53.8
52	17.1	0.0	46.9

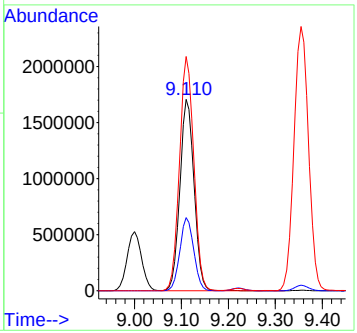


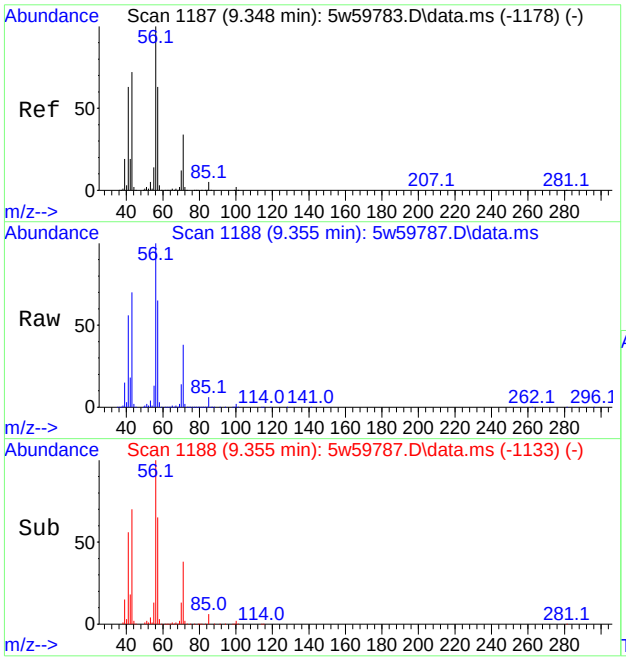


#53
CYCLOHEXANE
Concen: 67.59 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 3590293

Ion	Ratio	Lower	Upper
84	100		
69	37.6	6.9	66.9
56	123.7	98.2	158.2

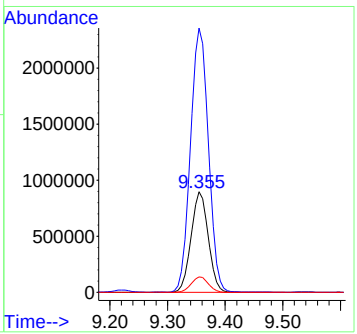


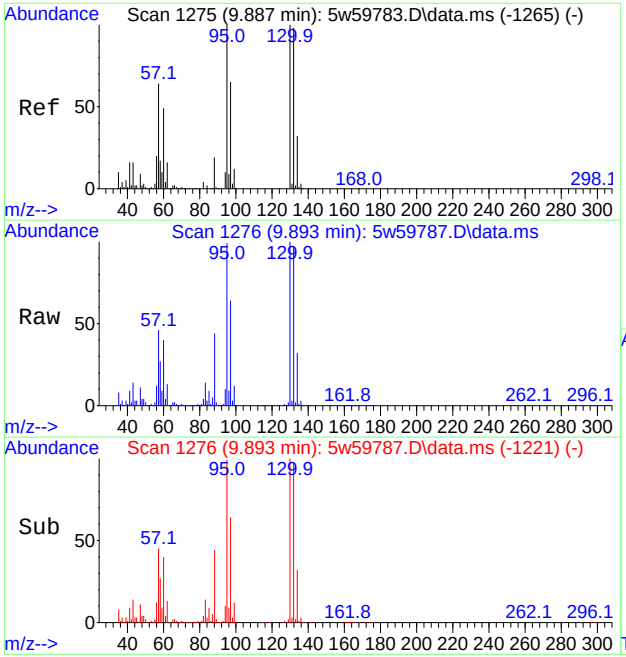


#54
2,3-DIMETHYLPENTANE
Concen: 67.86 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 71 Resp: 1853301

Ion	Ratio	Lower	Upper
71	100		
56	275.2	264.6	324.6
85	15.5	0.0	45.3

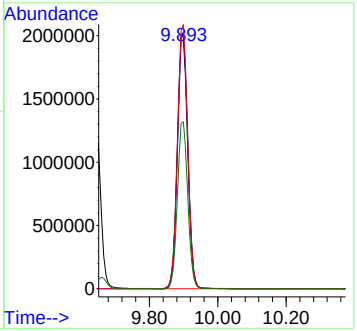


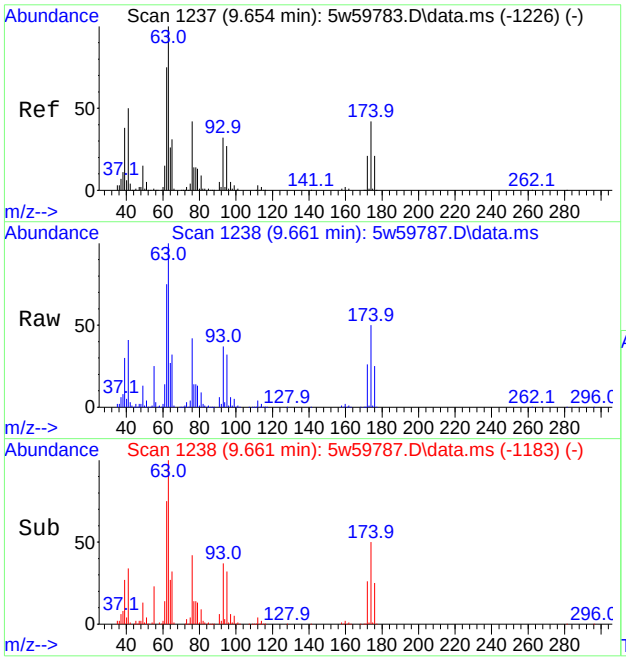


#55
TRICHLOROETHYLENE
Concen: 61.05 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 95 Resp: 4247994

Ion	Ratio	Lower	Upper
95	100		
132	100.4	69.0	129.0
130	103.4	70.6	130.6
97	65.6	34.6	94.6

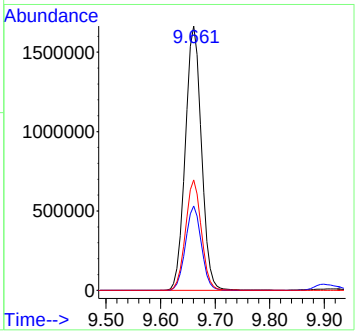


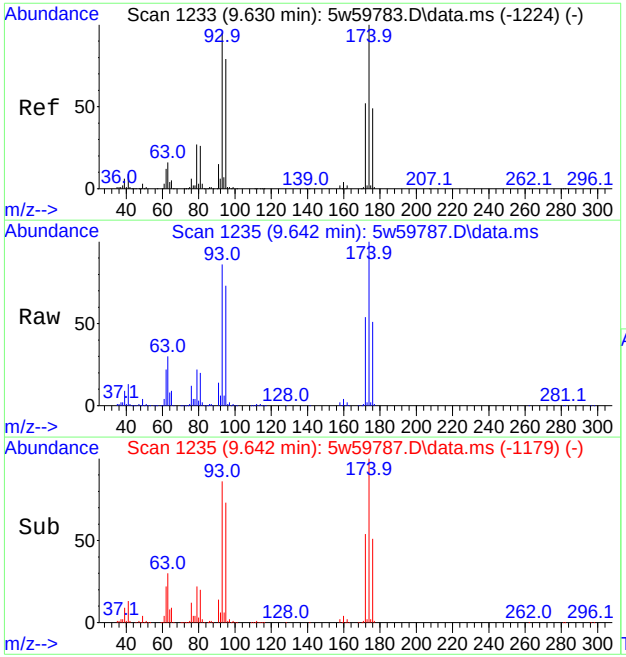


#56
1,2-DICHLOROPROPANE
Concen: 61.24 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 3414269

Ion	Ratio	Lower	Upper
63	100		
65	31.5	0.5	60.5
76	41.1	11.5	71.5

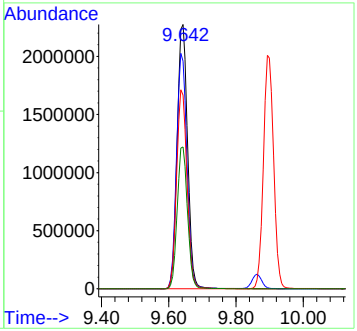


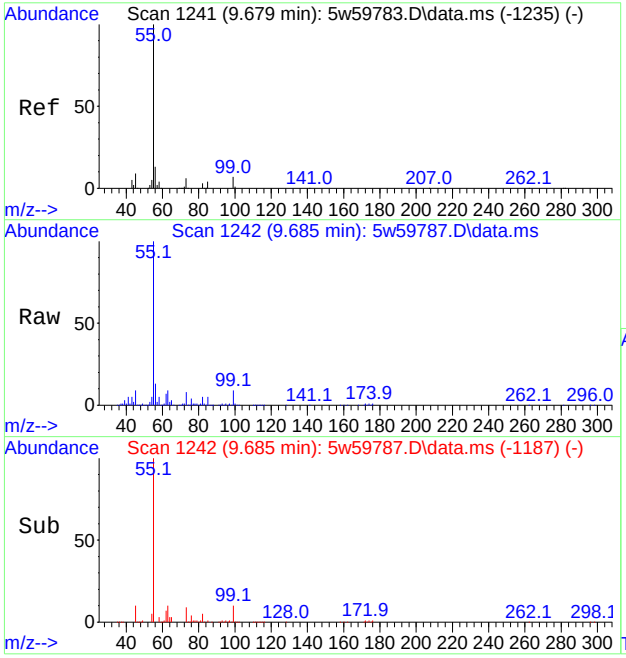


#57
DIBROMOMETHANE
Concen: 64.66 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:174 Resp: 4863346

Ion	Ratio	Lower	Upper
174	100		
93	89.4	65.0	120.6
95	75.5	54.5	101.1
172	53.4	36.3	67.5

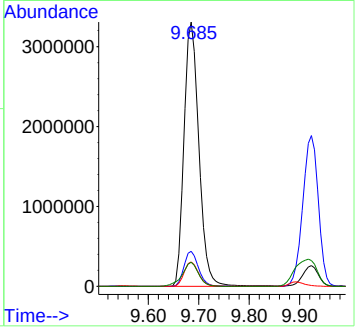


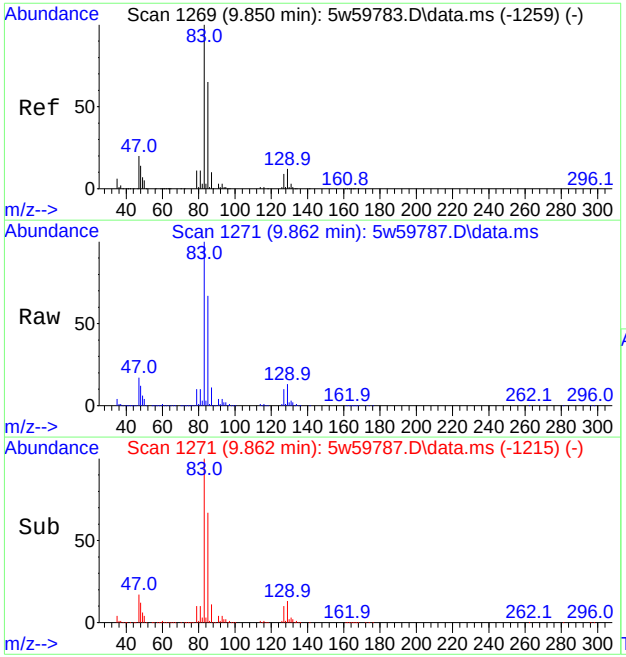


#58
ETHYL ACRYLATE
Concen: 63.67 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 6797917

Ion	Ratio	Lower	Upper
55	100		
56	12.9	8.6	16.0
45	9.0	6.6	12.2
99	10.0	6.4	12.0

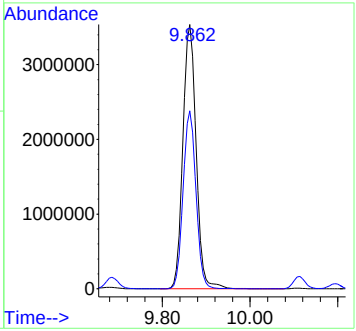


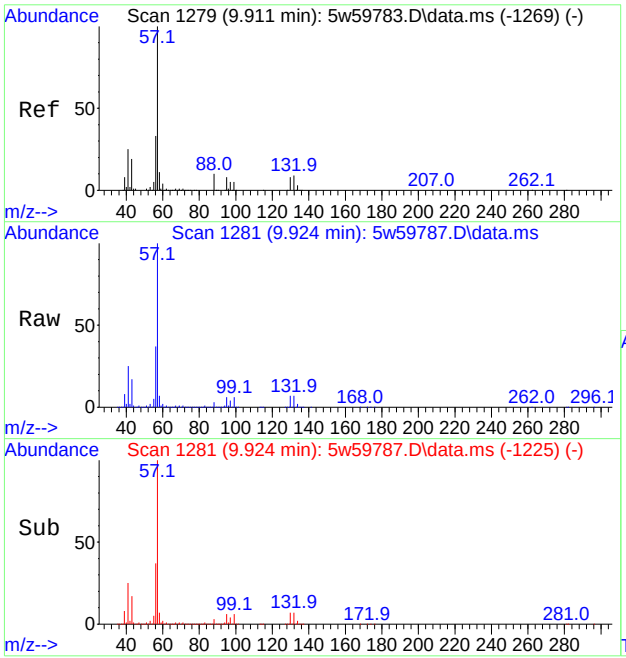


#59
BROMODICHLOROMETHANE
Concen: 61.30 PPBV
RT: 9.862 min Scan# 1271
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7417663

Ion	Ratio	Lower	Upper
83	100		
85	65.4	33.4	93.4

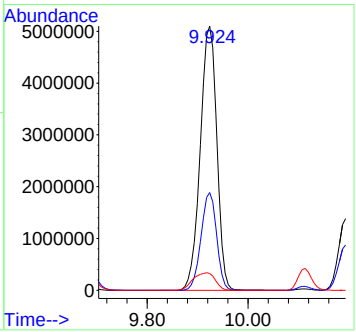


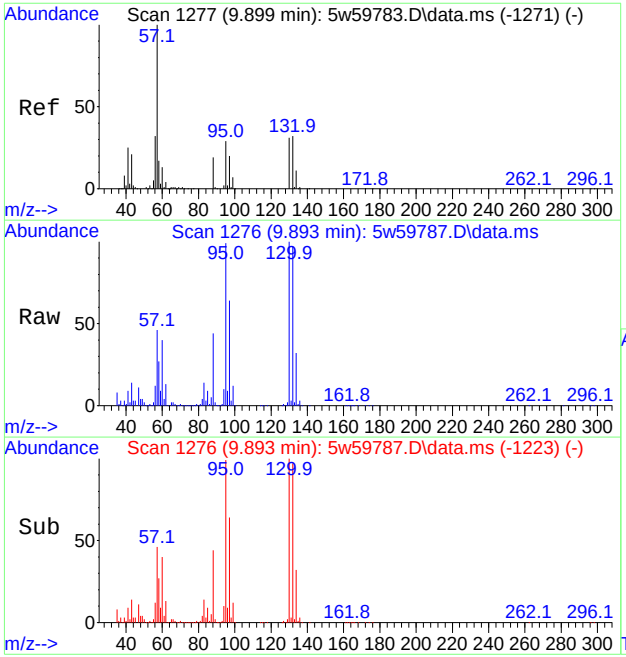


#60
2,2,4-TRIMETHYLPENTANE
Concen: 56.13 PPBV
RT: 9.924 min Scan# 1281
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp:11658719

Ion	Ratio	Lower	Upper
57	100		
56	34.7	2.5	62.5
99	8.9	0.0	37.3

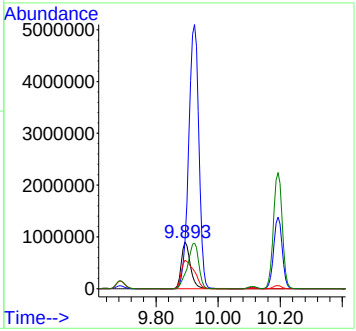


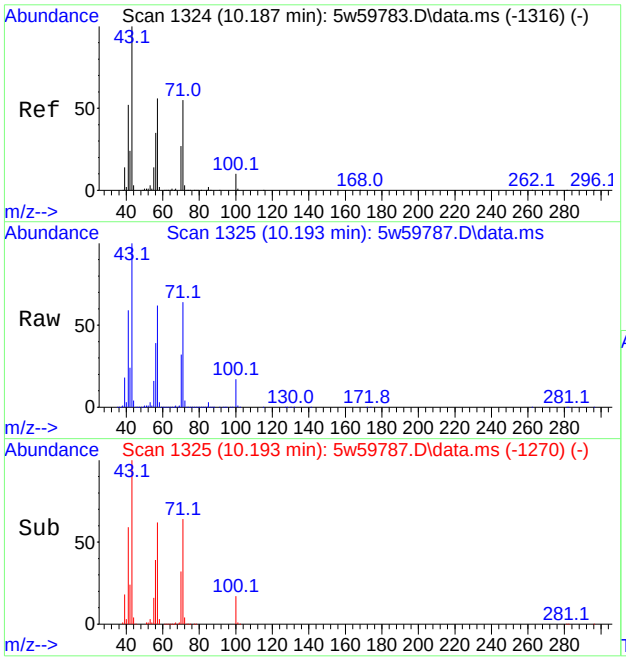


#61
1,4-DIOXANE
Concen: 60.00 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 88 Resp: 1844331

Ion	Ratio	Lower	Upper
88	100		
57	102.5	494.2	554.2#
58	61.2	58.9	118.9
43	32.1	78.3	138.3#

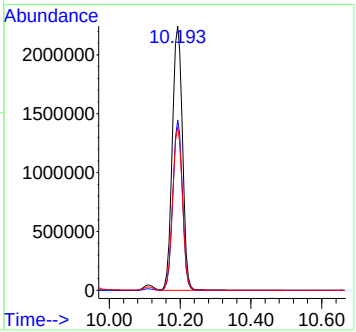


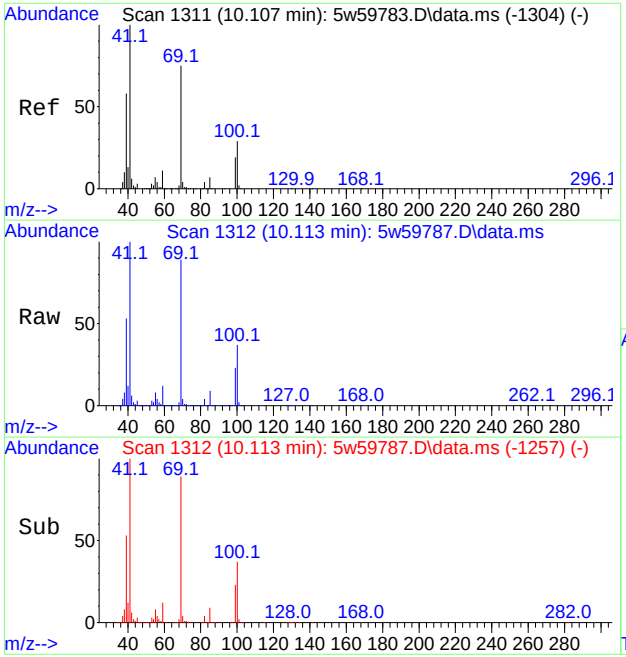


#62
HEPTANE
Concen: 63.31 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 4474034

Ion	Ratio	Lower	Upper
43	100		
71	61.1	24.5	84.5
57	59.9	26.2	86.2

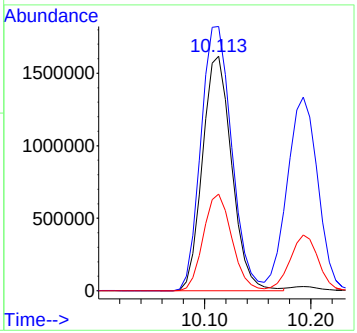


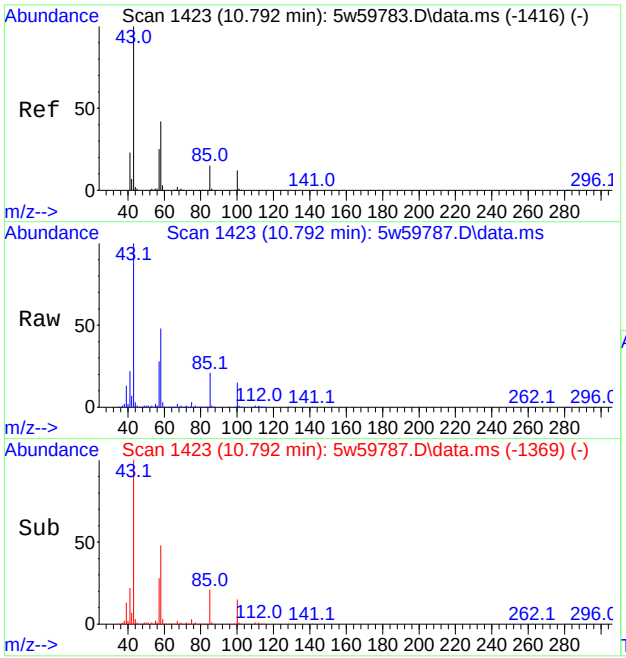


#63
METHYL METHACRYLATE
Concen: 67.79 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 3101307

Ion	Ratio	Lower	Upper
69	100		
41	118.8	95.3	155.3
100	40.2	6.3	66.3

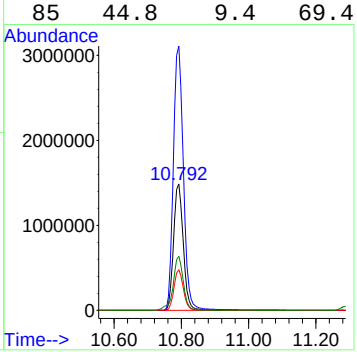


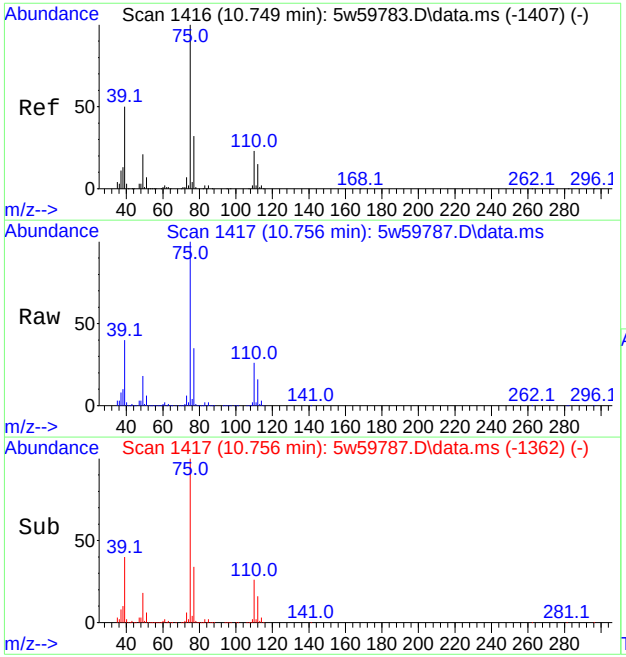


#64
METHYL ISOBUTYL KETONE
Concen: 66.58 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 2975343

Ion	Ratio	Lower	Upper
58	100		
43	216.5	209.2	269.2
100	31.2	0.0	58.8
85	44.8	9.4	69.4

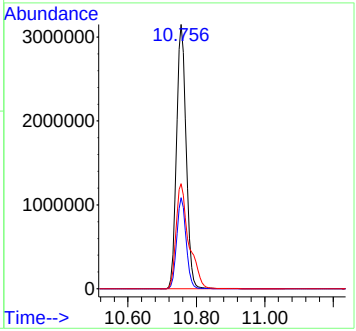


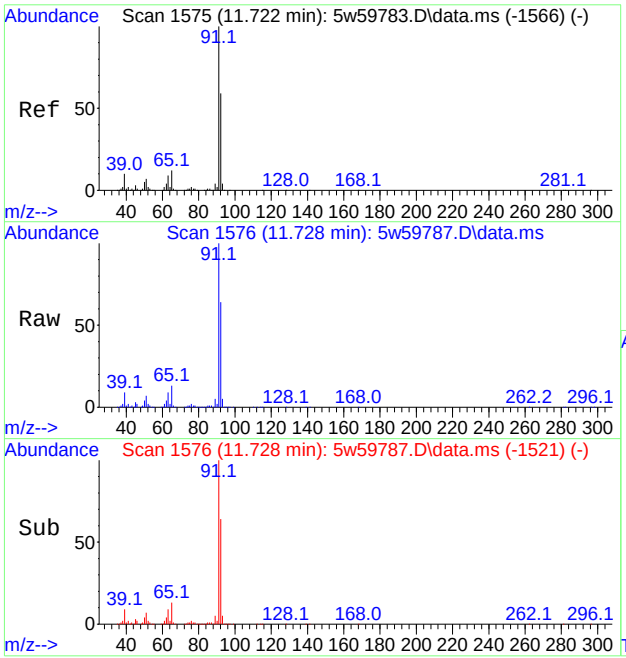


#65
cis-1,3-DICHLOROPROPENE
Concen: 66.43 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6183357

Ion	Ratio	Lower	Upper
75	100		
77	33.7	2.2	62.2
39	53.0	34.3	94.3

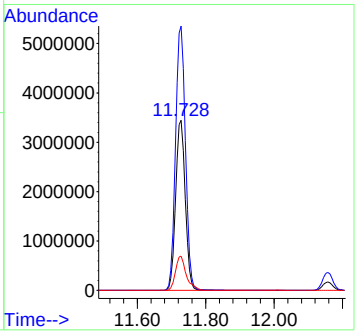


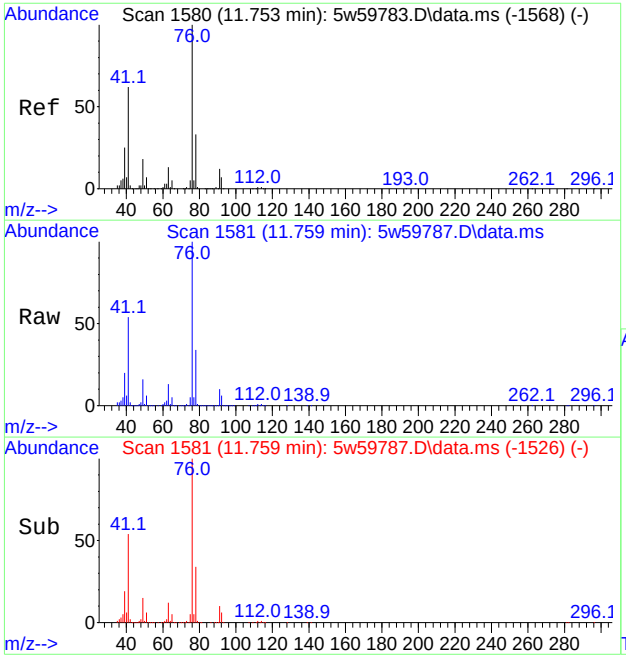


#66
TOLUENE
Concen: 65.67 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 92 Resp: 6766589

Ion	Ratio	Lower	Upper
92	100		
91	160.0	140.1	200.1
65	22.6	0.0	53.1

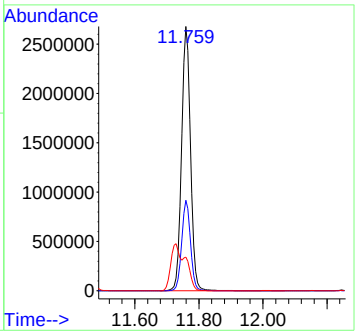


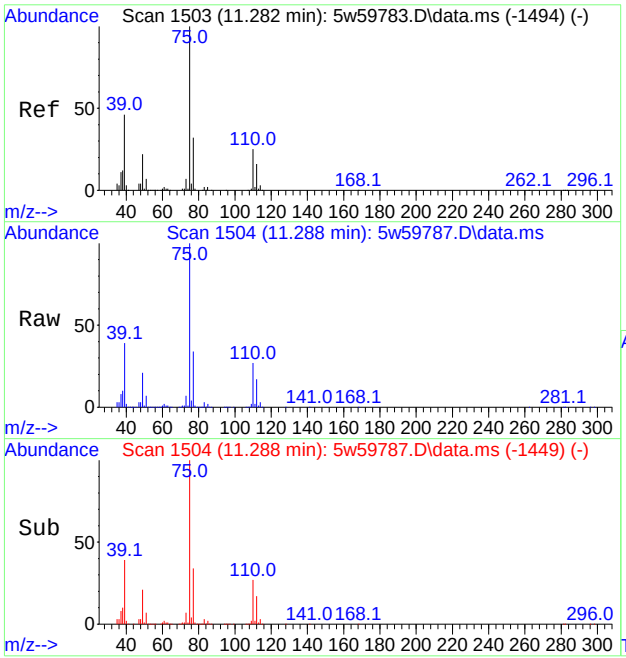


#67
1,3-DICHLOROPROPANE
Concen: 63.52 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 5183507

Ion	Ratio	Lower	Upper
76	100		
78	33.7	23.2	43.0
63	12.1	7.1	13.1

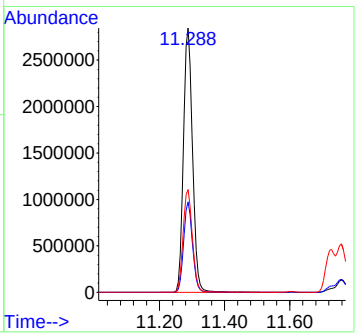


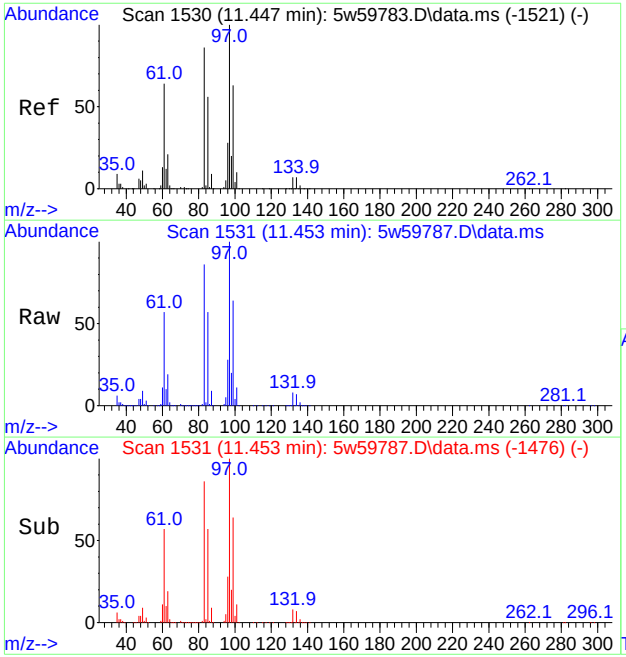


#68
trans-1,3-DICHLOROPROPENE
Concen: 63.59 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 5535715

Ion	Ratio	Lower	Upper
75	100		
77	33.3	1.6	61.6
39	40.1	16.1	76.1

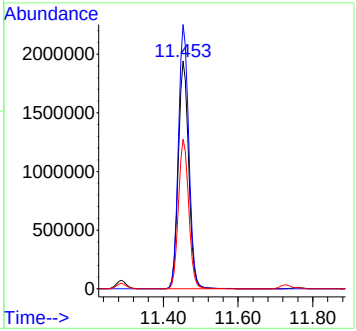


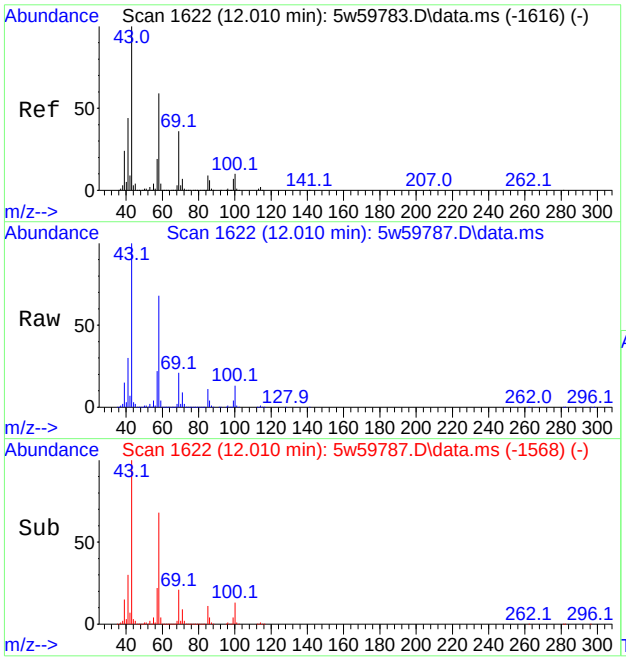


#69
1,1,2-TRICHLOROETHANE
Concen: 66.35 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 3736885

Ion	Ratio	Lower	Upper
83	100		
97	116.2	86.3	146.3
85	65.4	35.3	95.3

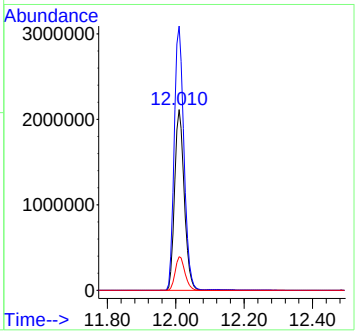


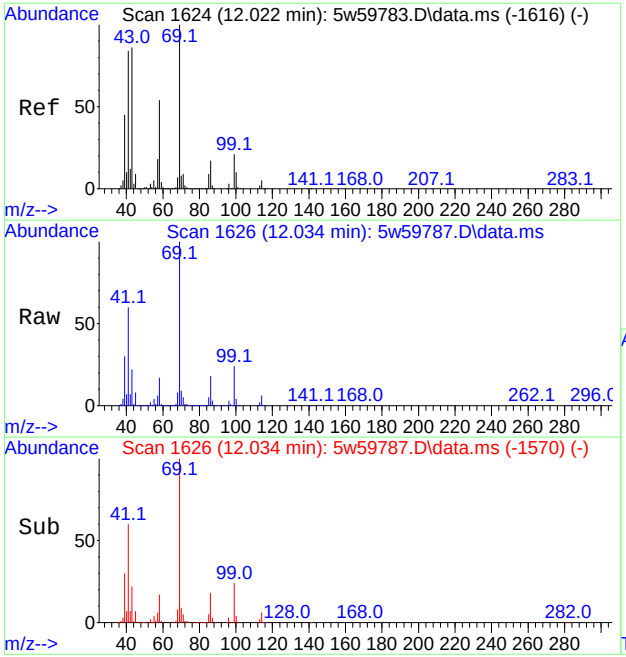


#71
2-HEXANONE
Concen: 54.00 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 4158676

Ion	Ratio	Lower	Upper
58	100		
43	147.9	137.2	197.2
100	18.9	0.0	46.9

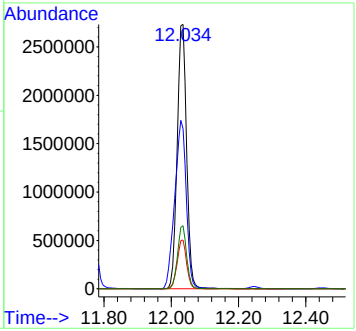


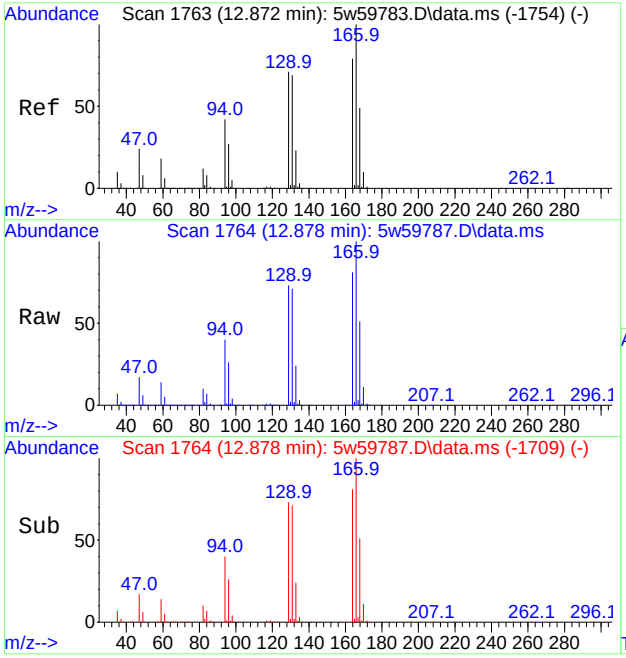


#72
ETHYL METHACRYLATE
Concen: 53.39 PPBV
RT: 12.034 min Scan# 1626
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 5321053

Ion	Ratio	Lower	Upper
69	100		
41	77.8	64.0	119.0
86	18.4	12.0	22.4
99	23.1	15.0	27.8

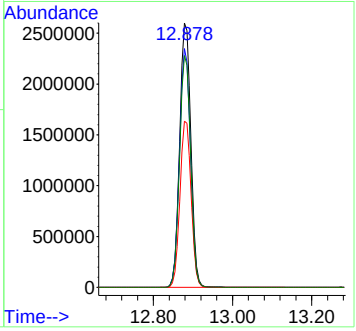


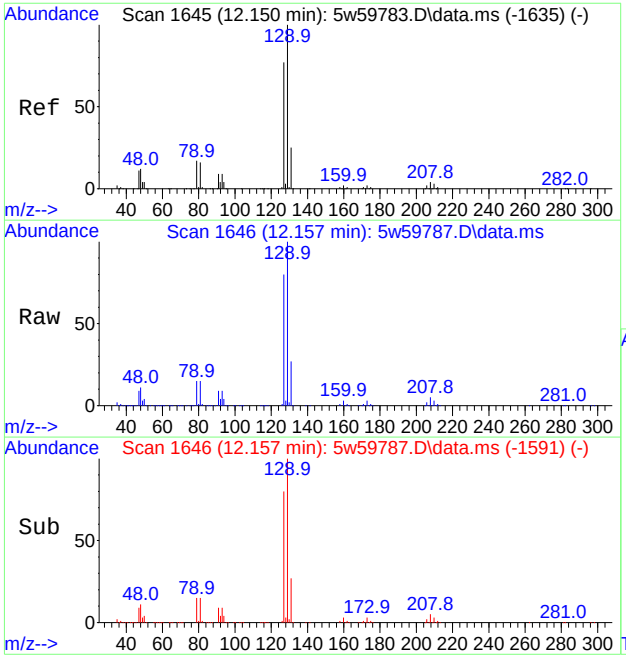


#73
TETRACHLOROETHYLENE
Concen: 56.17 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:164 Resp: 5112644

Ion	Ratio	Lower	Upper
164	100		
129	89.2	59.7	119.7
168	62.8	32.2	92.2
131	87.3	57.8	117.8

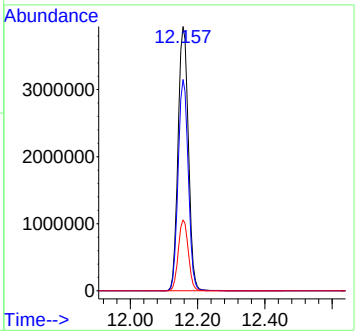


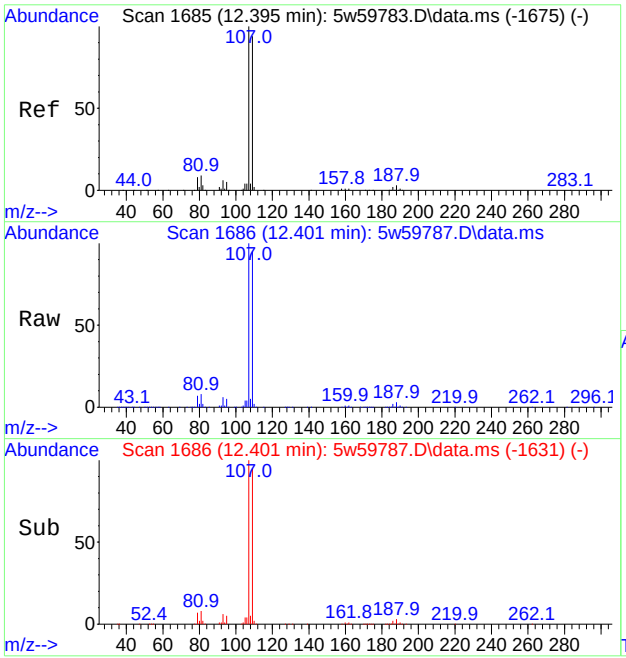


#74
DIBROMOCHLOROMETHANE
Concen: 52.38 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:129 Resp: 8396348

Ion	Ratio	Lower	Upper
129	100		
127	78.8	47.1	107.1
131	26.1	0.0	54.5

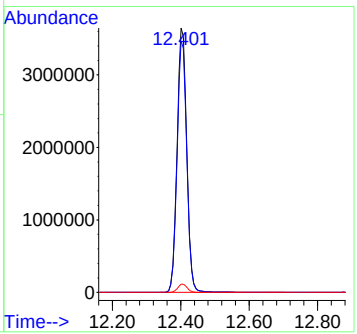


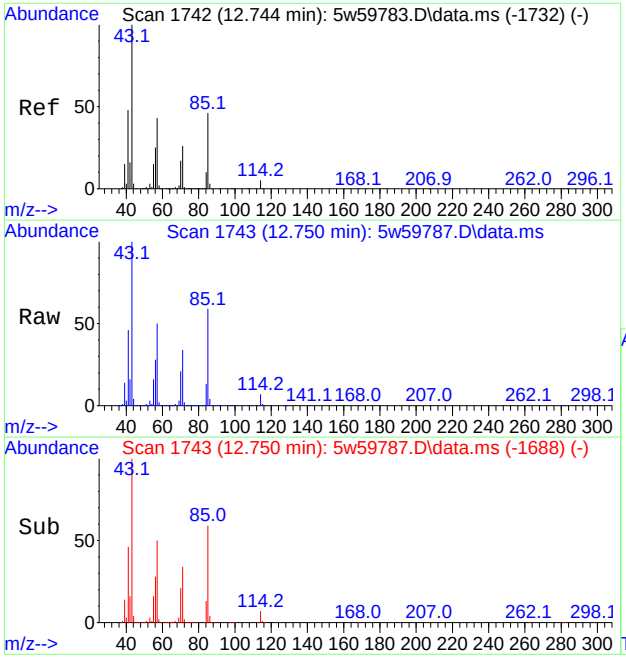


#75
1,2-DIBROMOETHANE
Concen: 57.04 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:107 Resp: 7189005

Ion	Ratio	Lower	Upper
107	100		
109	95.3	64.8	124.8
188	3.0	0.0	32.8

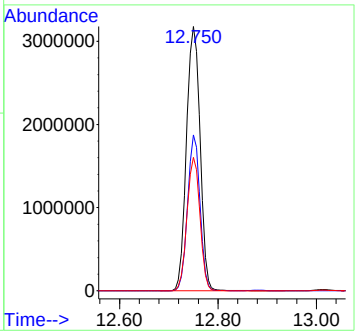


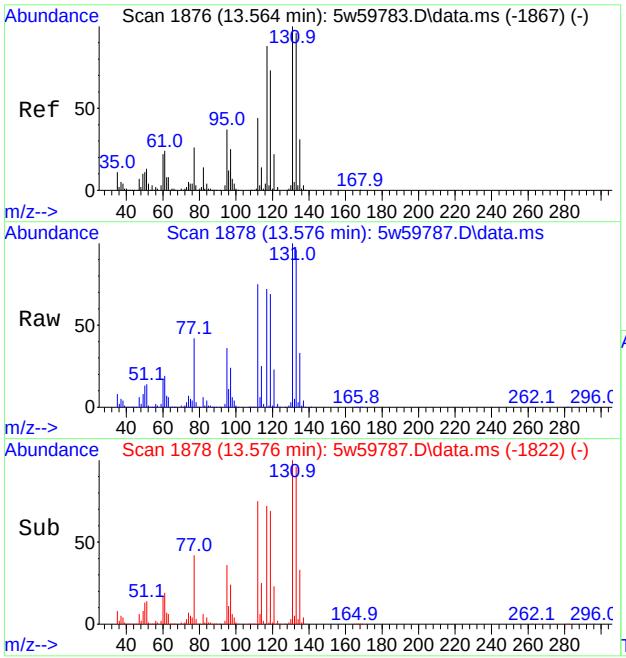


#76
OCTANE
Concen: 51.61 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 6099138

Ion	Ratio	Lower	Upper
43	100		
85	53.9	14.6	74.6
57	48.0	13.7	73.7

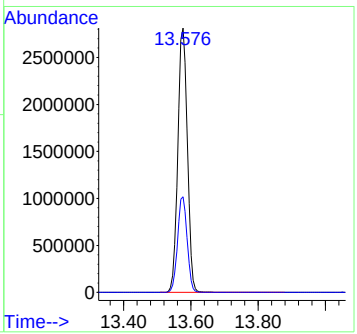


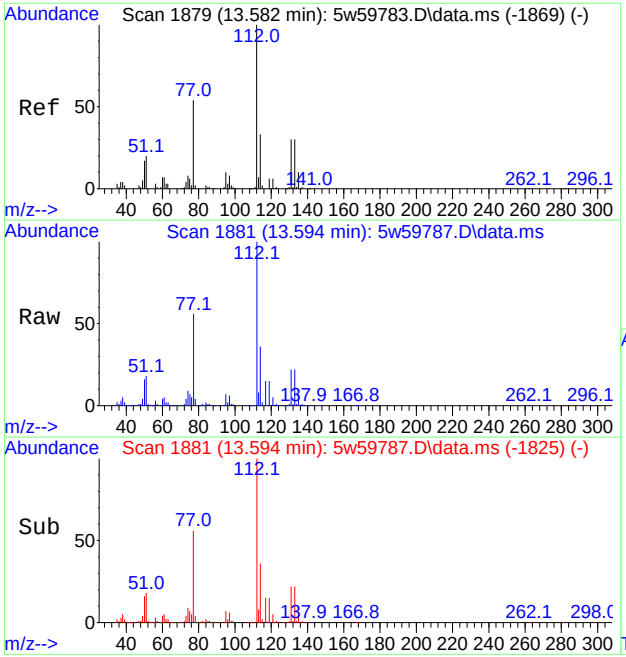


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 54.07 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:131 Resp: 5539677

Ion	Ratio	Lower	Upper
131	100		
95	36.2	6.5	66.5

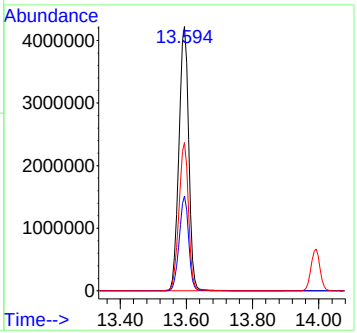


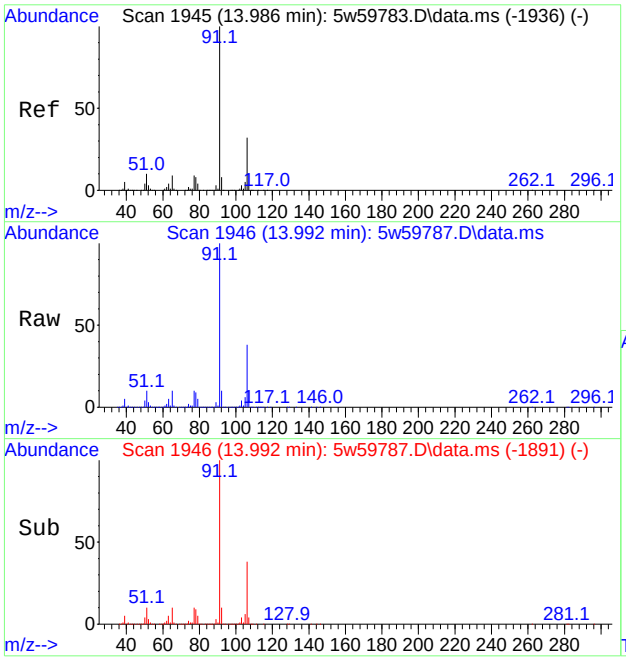


#78
CHLOROBENZENE
Concen: 52.99 PPBV
RT: 13.594 min Scan# 1881
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:112 Resp: 8685700

Ion	Ratio	Lower	Upper
112	100		
114	34.4	2.6	62.6
77	55.0	25.4	85.4

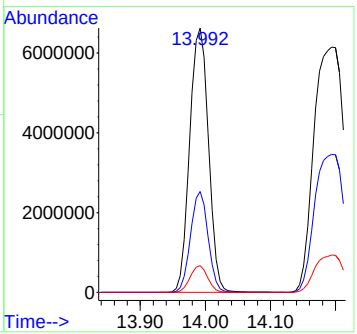


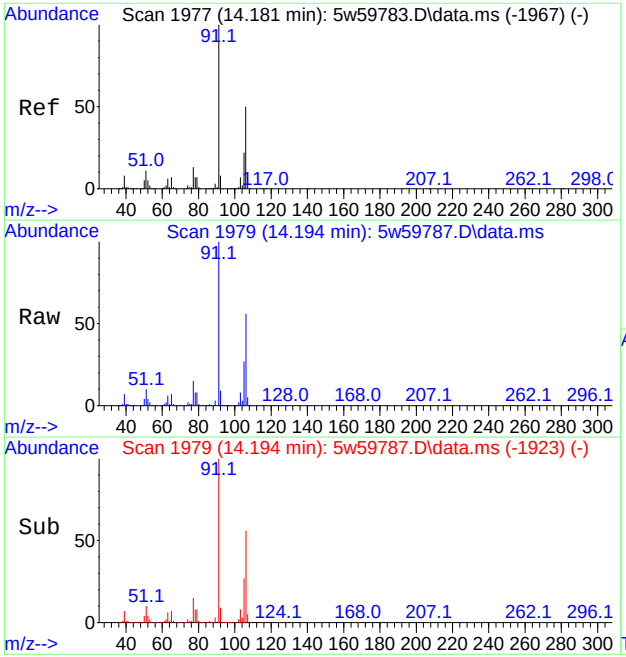


#79
ETHYLBENZENE
Concen: 52.78 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:13293280

Ion	Ratio	Lower	Upper
91	100		
106	35.6	1.3	61.3
77	9.4	0.0	38.6

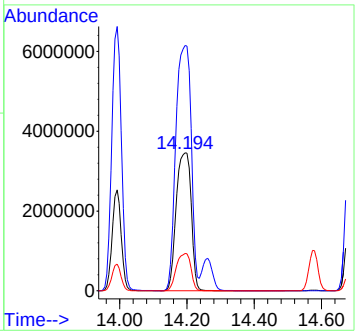


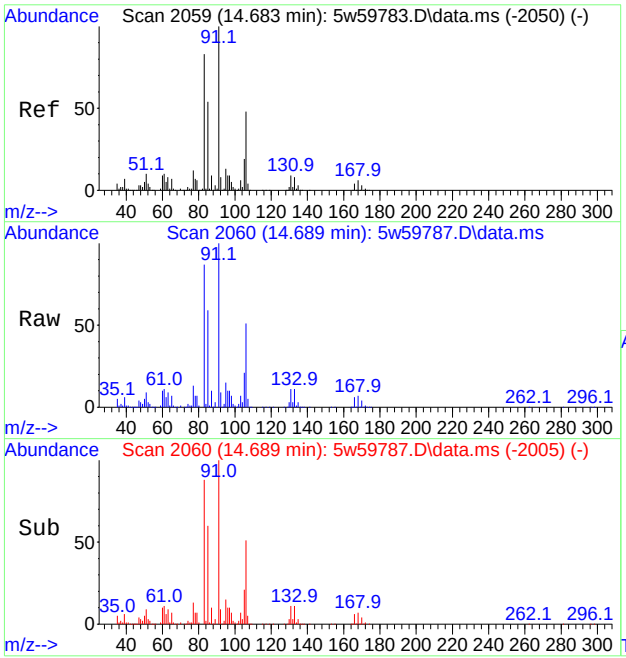


#80
m,p-XYLENE
Concen: 104.01 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp:10660694

Ion	Ratio	Lower	Upper
106	100		
91	177.8	171.0	231.0
77	27.1	0.0	56.7

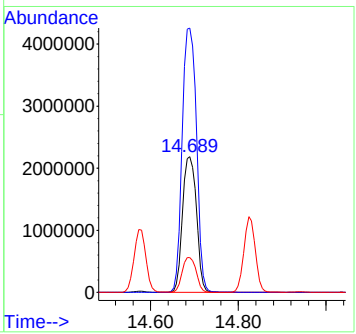


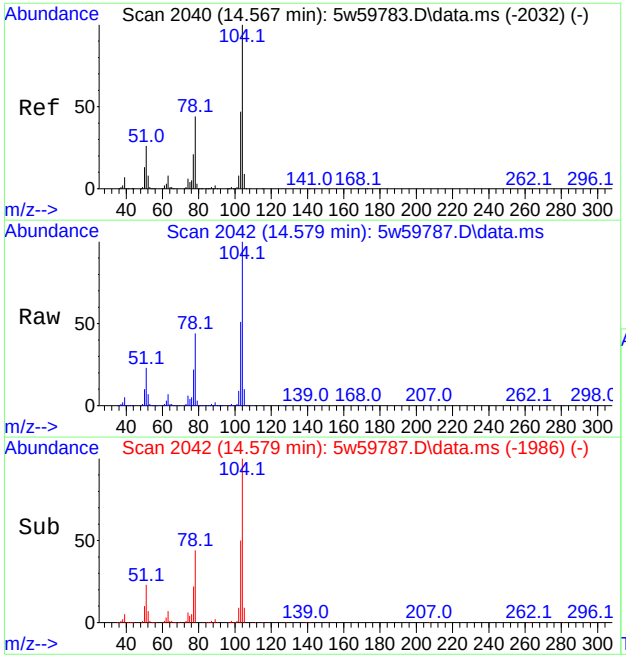


#81
o-XYLENE
Concen: 49.93 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 4828440

Ion	Ratio	Lower	Upper
106	100		
91	199.8	181.6	241.6
77	25.8	0.0	56.6

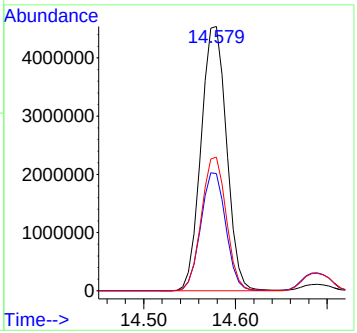


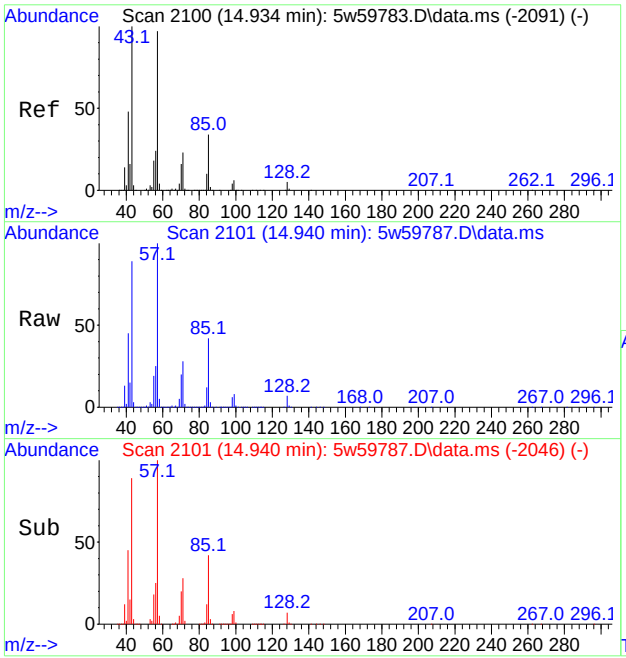


#82
STYRENE
Concen: 56.42 PPBV
RT: 14.579 min Scan# 2042
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:104 Resp: 8801086

Ion	Ratio	Lower	Upper
104	100		
78	43.7	13.3	73.3
103	49.3	17.2	77.2

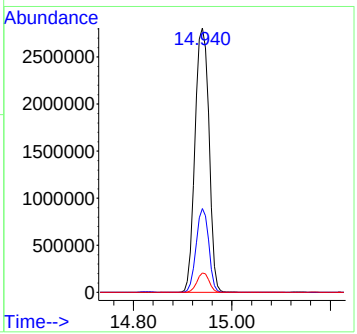


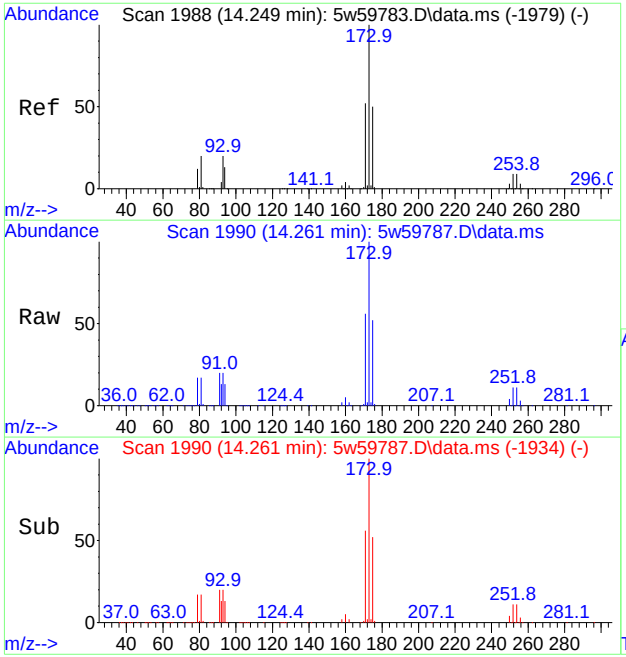


#83
NONANE
Concen: 46.77 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 5544485

Ion	Ratio	Lower	Upper
43	100		
71	28.5	0.0	52.7
128	6.4	0.0	34.7

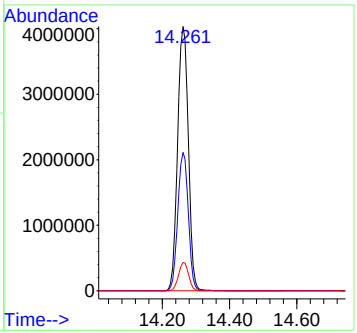


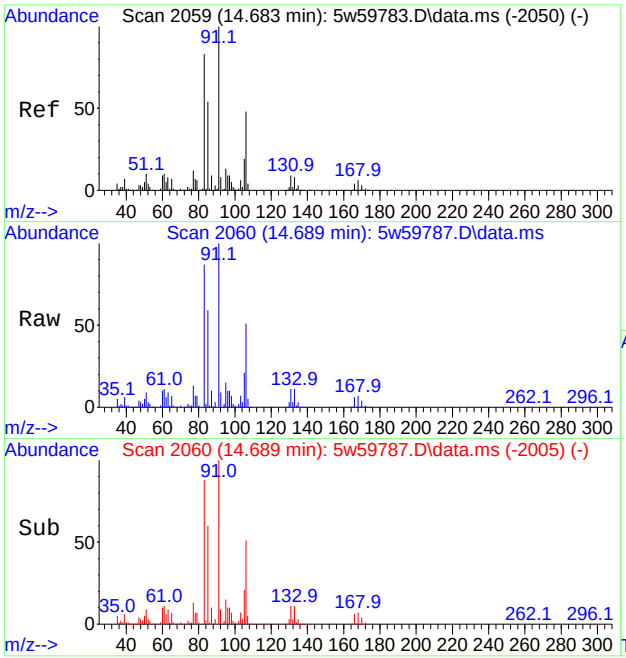


#84
BROMOFORM
Concen: 53.58 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:173 Resp: 8954982

Ion	Ratio	Lower	Upper
173	100		
175	51.3	19.6	79.6
254	10.1	0.0	39.0

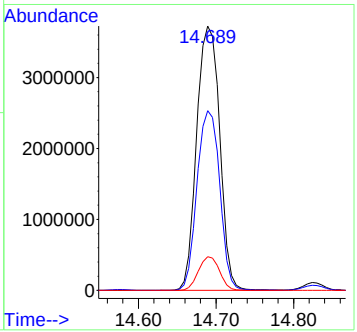


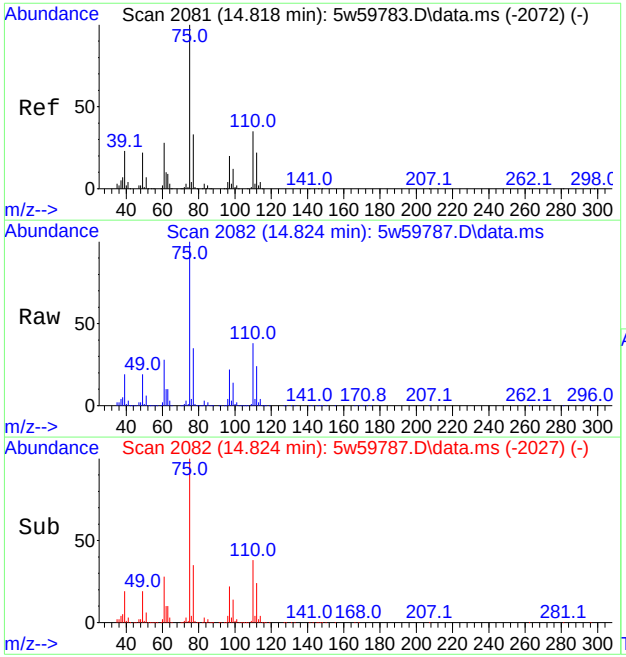


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 46.70 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7680268

Ion	Ratio	Lower	Upper
83	100		
85	67.0	35.2	95.2
131	11.7	0.0	40.3

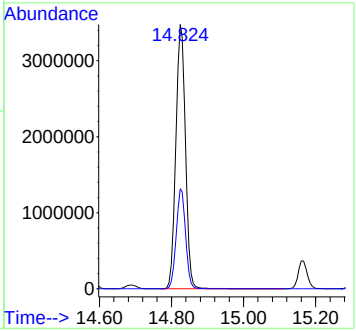


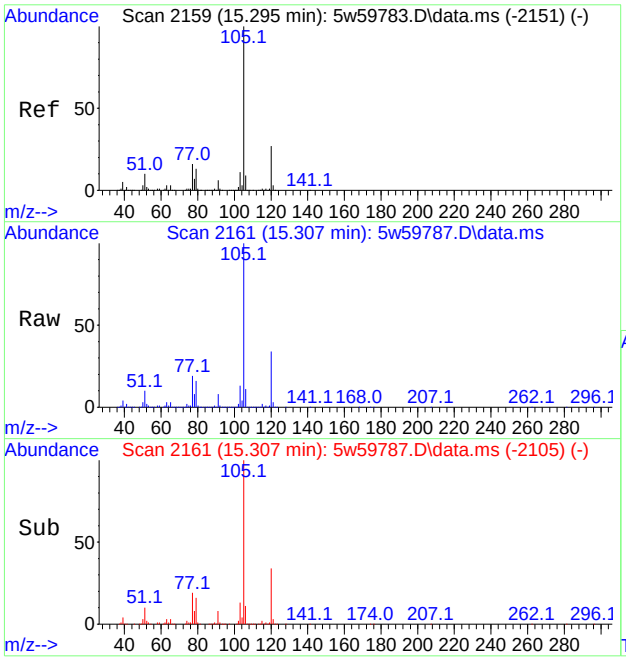


#87
1,2,3-TRICHLOROPROPANE
Concen: 53.62 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6463476

Ion	Ratio	Lower	Upper
75	100		
110	36.9	4.4	64.4

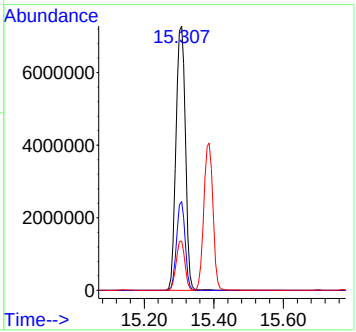


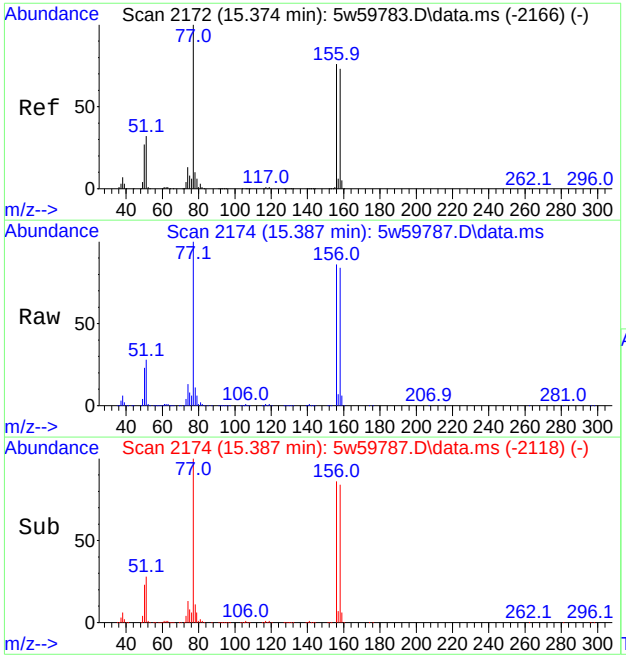


#88
ISOPROPYLBENZENE
Concen: 47.61 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13782072

Ion	Ratio	Lower	Upper
105	100		
120	30.8	0.0	56.0
77	17.4	0.0	45.6

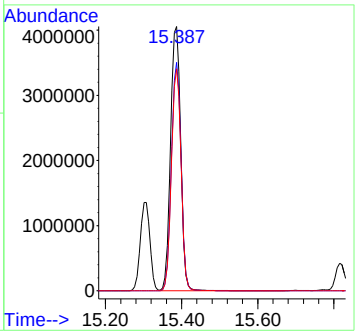


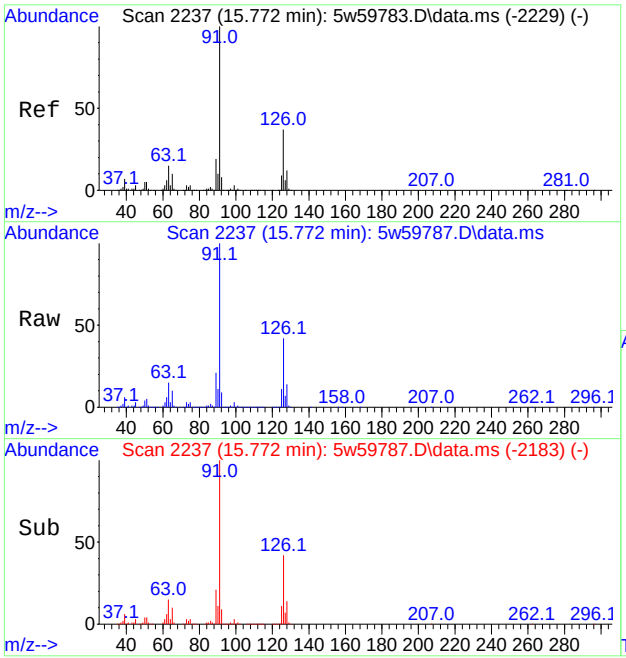


#89
BROMOBENZENE
Concen: 50.72 PPBV
RT: 15.387 min Scan# 2174
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 77 Resp: 7438070

Ion	Ratio	Lower	Upper
77	100		
156	83.1	54.9	101.9
158	80.8	53.5	99.3

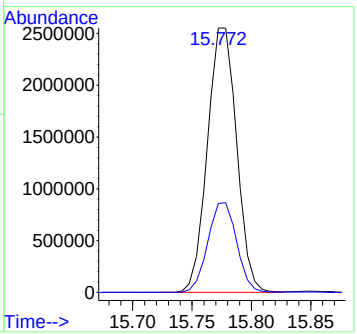


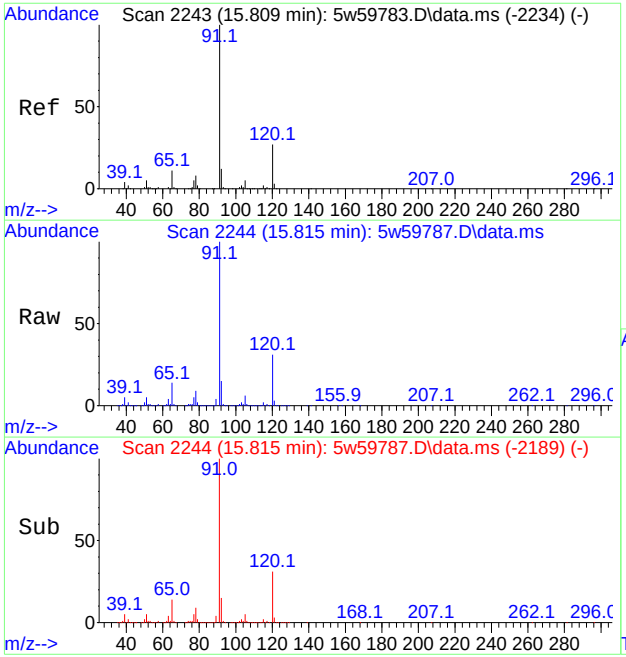


#90
2-CHLOROTOLUENE
Concen: 53.10 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:126 Resp: 4362530

Ion	Ratio	Lower	Upper
126	100		
128	33.5	2.7	62.7

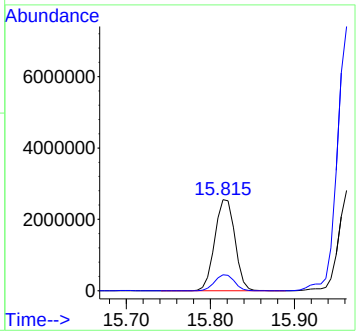


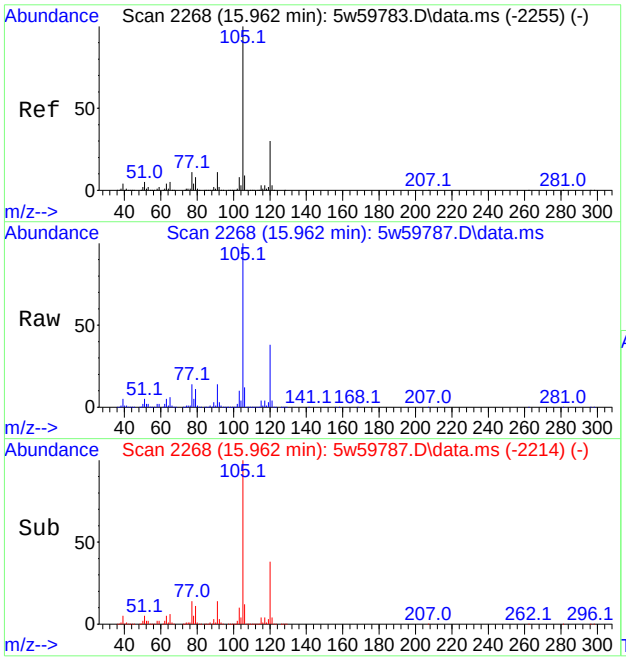


#91
n-PROPYLBENZENE
Concen: 52.74 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:120 Resp: 4269312

Ion	Ratio	Lower	Upper
120	100		
105	17.2	0.0	47.0

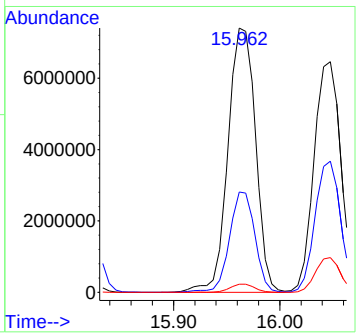


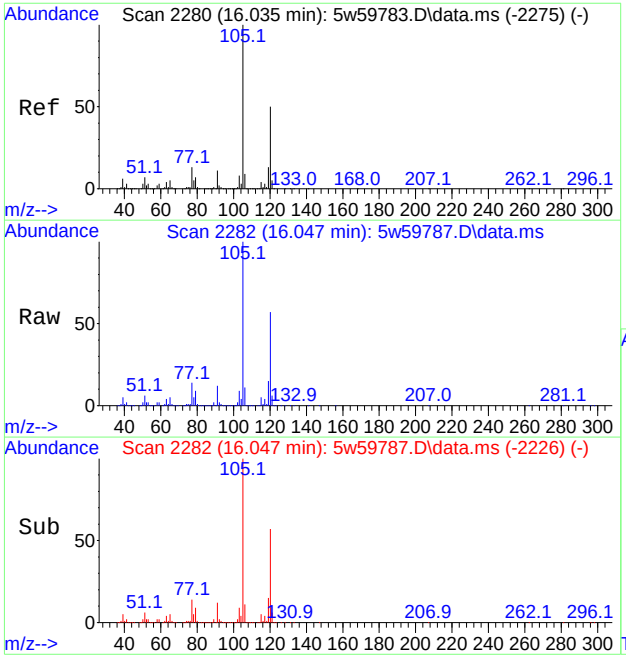


#92
4-ETHYLTOLUENE
Concen: 48.02 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13388380

Ion	Ratio	Lower	Upper
105	100		
120	35.0	0.0	59.9
119	2.8	0.0	32.3

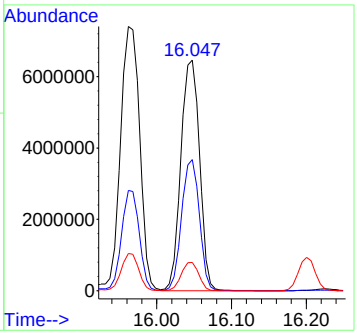


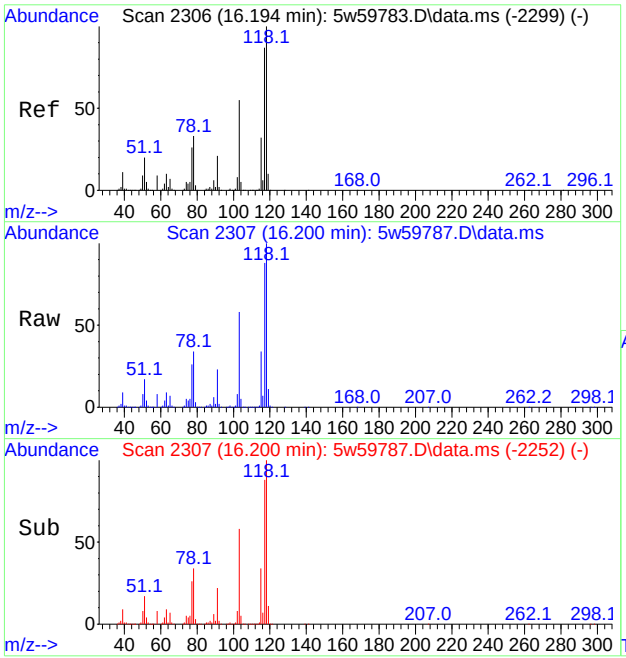


#93
1,3,5-TRIMETHYLBENZENE
Concen: 47.79 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:11253685

Ion	Ratio	Lower	Upper
105	100		
120	54.0	19.4	79.4
91	11.6	0.0	40.8

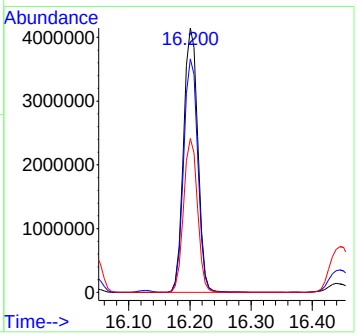


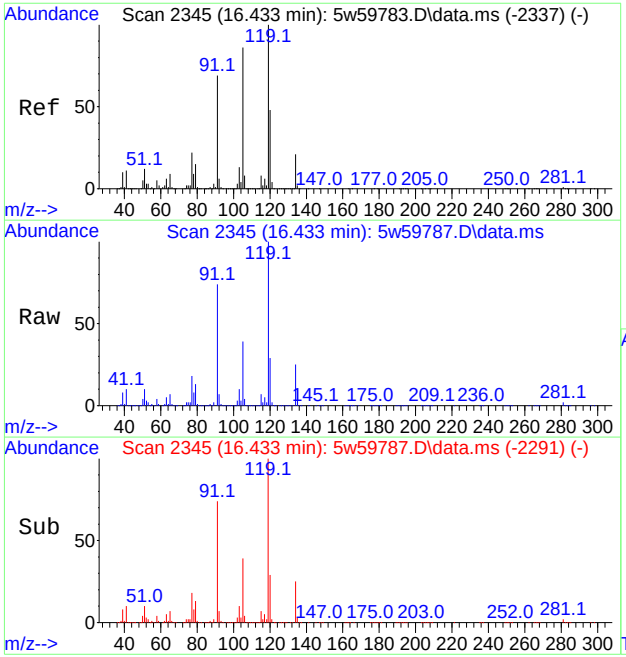


#94
ALPHA-METHYLSTYRENE
Concen: 50.76 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:118 Resp: 6738901

Ion	Ratio	Lower	Upper
118	100		
117	88.0	60.9	113.1
103	56.8	38.6	71.8

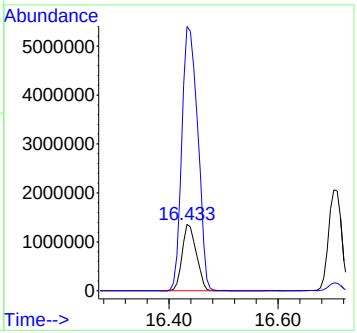


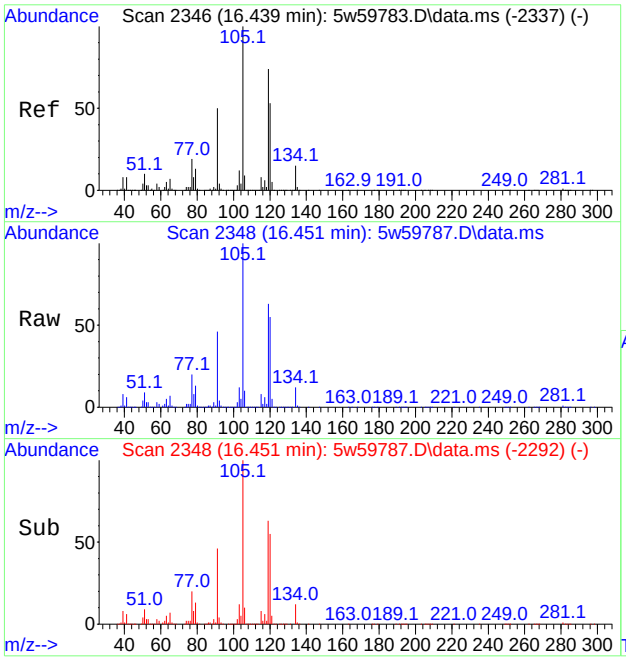


#95
tert-BUTYLBENZENE
Concen: 46.98 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 2429034

Ion	Ratio	Lower	Upper
134	100		
119	449.7	459.3	519.3#

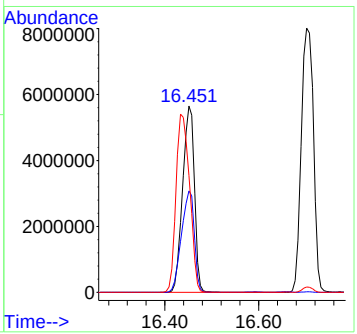


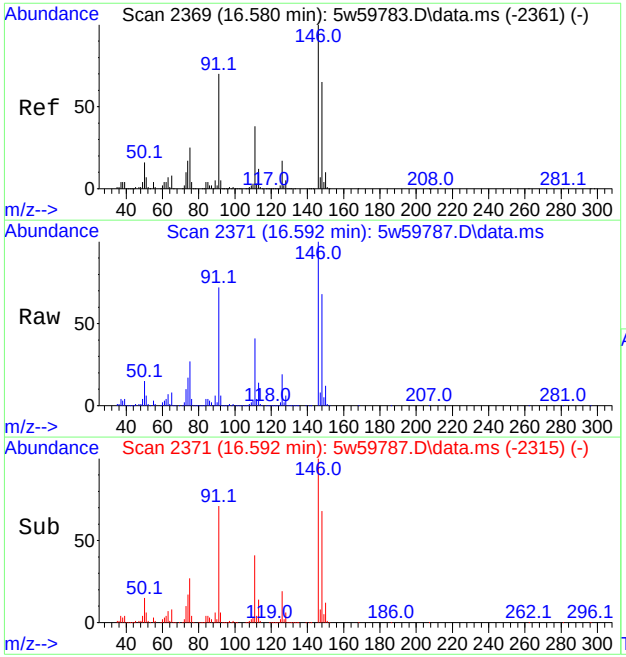


#96
1,2,4-TRIMETHYLBENZENE
Concen: 42.68 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9912721

Ion	Ratio	Lower	Upper
105	100		
120	59.1	25.7	85.7
119	110.2	75.7	135.7

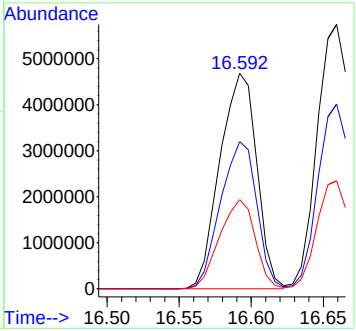


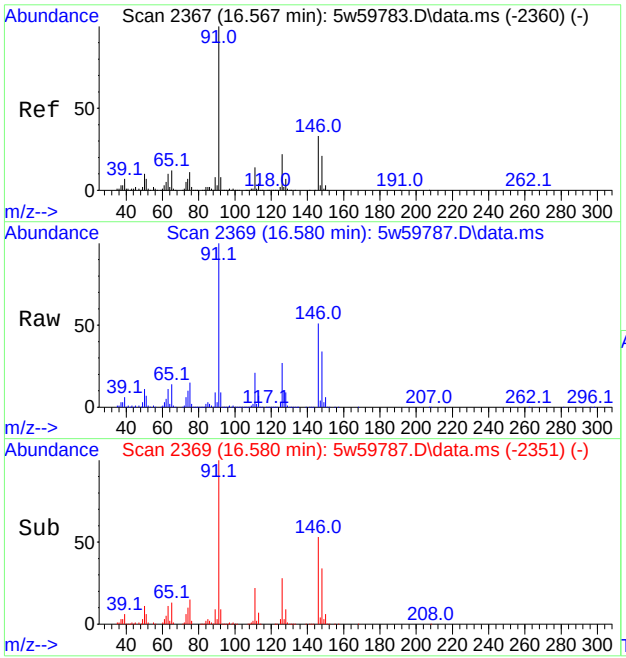


#97
m-DICHLOROBENZENE
Concen: 44.49 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 8350505

Ion	Ratio	Lower	Upper
146	100		
148	66.9	34.8	94.8
111	39.8	8.2	68.2

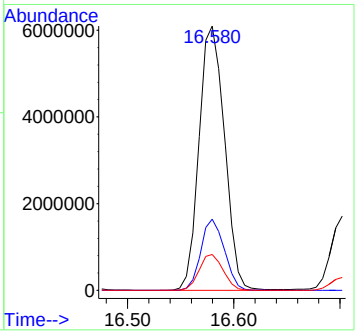


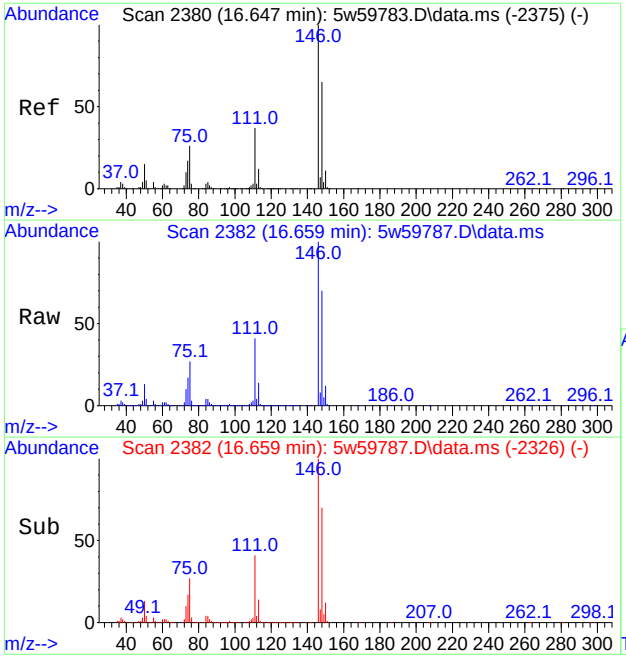


#98
BENZYL CHLORIDE
Concen: 42.40 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:10182019

Ion	Ratio	Lower	Upper
91	100		
126	25.0	0.0	51.7
65	12.9	0.0	42.2

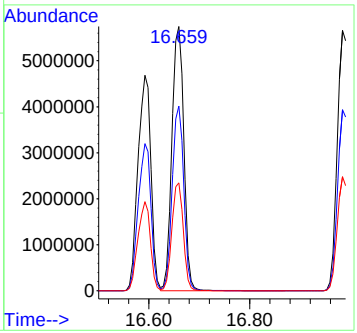


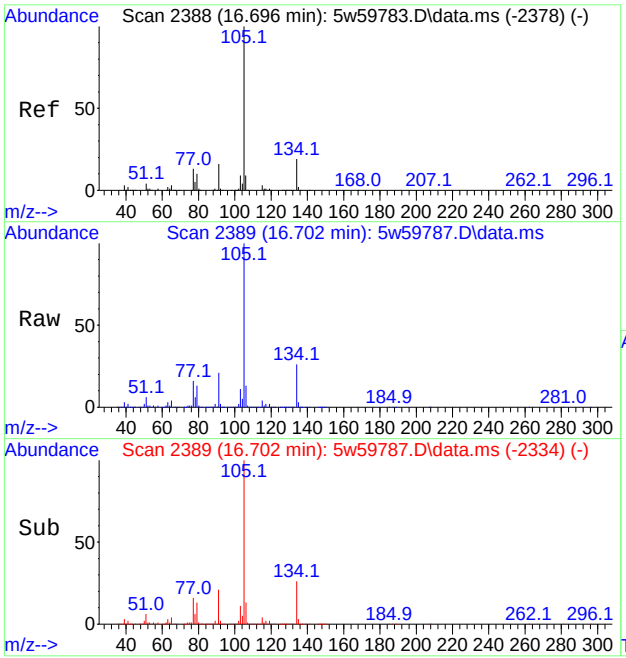


#99
p-DICHLOROBENZENE
Concen: 51.05 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9434738

Ion	Ratio	Lower	Upper
146	100		
148	67.8	34.6	94.6
111	39.2	6.7	66.7

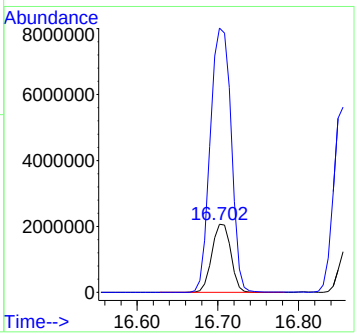


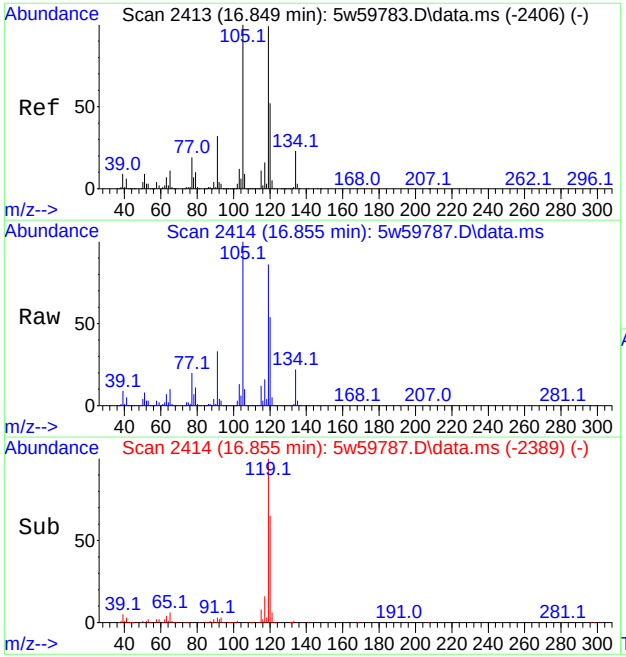


#100
sec-BUTYLBENZENE
Concen: 52.25 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3389691

Ion	Ratio	Lower	Upper
134	100		
105	427.3	502.5	562.5#

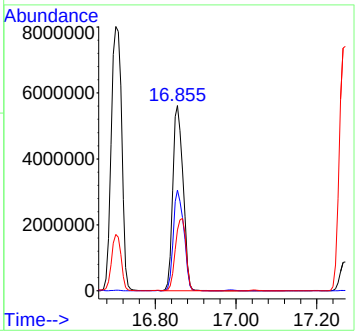


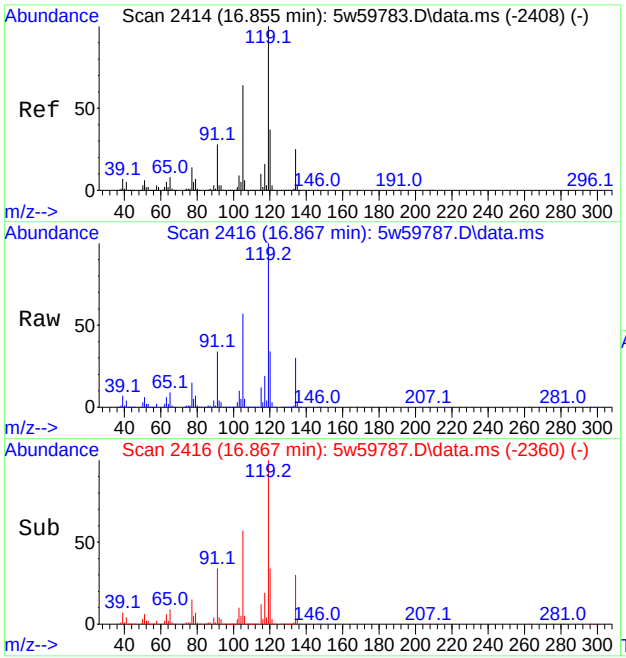


#101
1,2,3-TRIMETHYLBENZENE
Concen: 41.33 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9964483

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	40.0	7.4	67.4

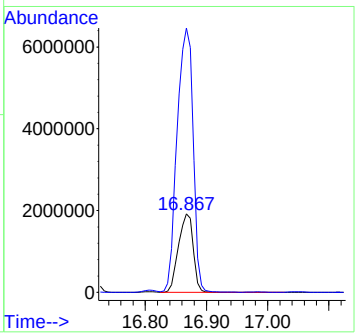


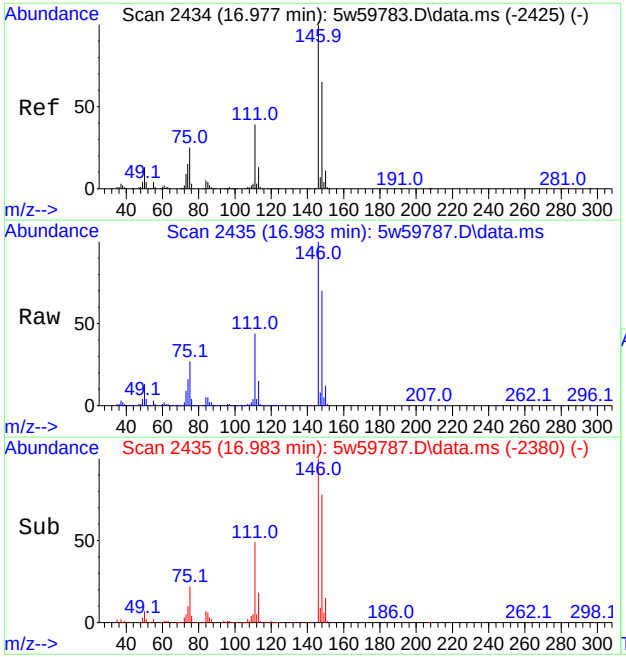


#102
p-ISOPROPYLTOLUENE
Concen: 42.88 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3209884

Ion	Ratio	Lower	Upper
134	100		
119	366.4	377.7	437.7#

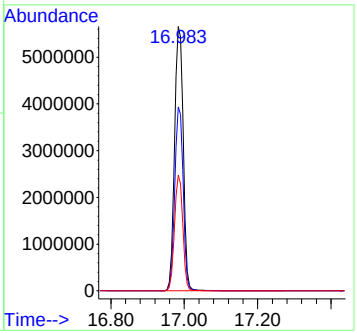


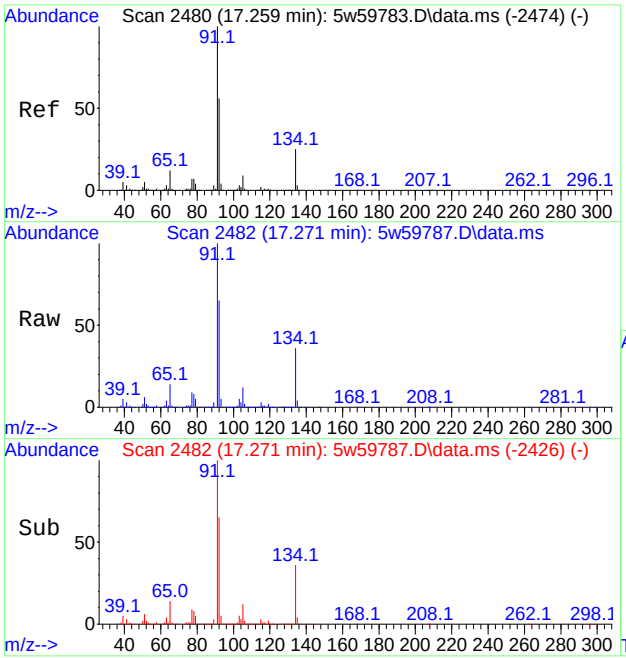


#103
o-DICHLOROBENZENE
Concen: 51.54 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9264152

Ion	Ratio	Lower	Upper
146	100		
148	67.6	34.3	94.3
111	41.8	9.2	69.2

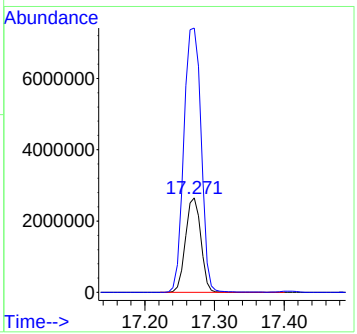


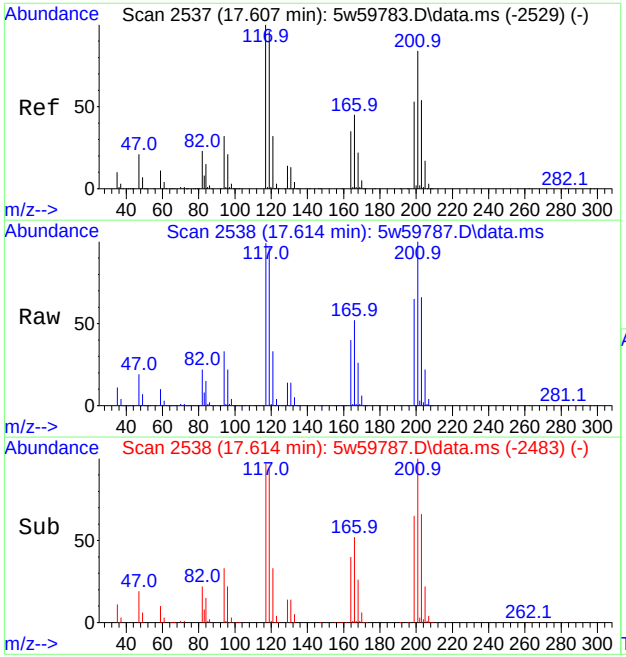


#104
n-BUTYLBENZENE
Concen: 53.04 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 4068110

Ion	Ratio	Lower	Upper
134	100		
91	315.5	363.1	423.1#

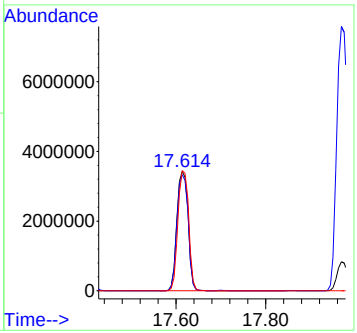


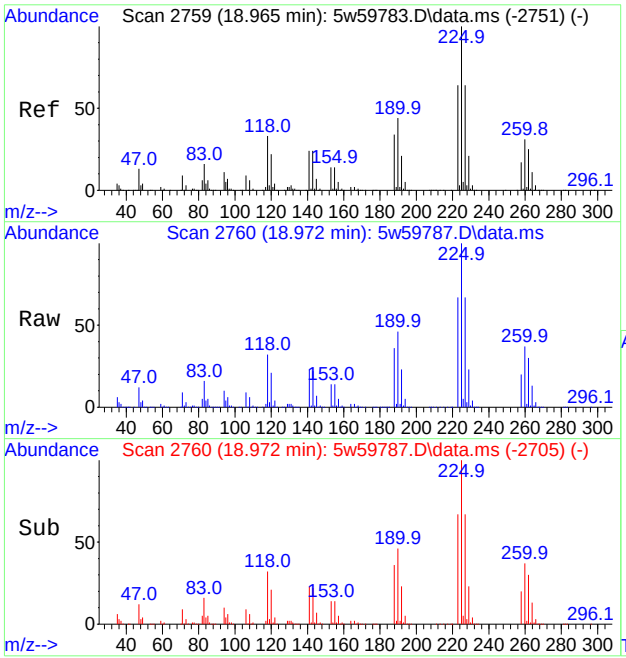


#105
HEXACHLOROETHANE
Concen: 48.19 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 5943910

Ion	Ratio	Lower	Upper
117	100		
119	96.7	67.2	124.8
201	96.6	61.1	113.5

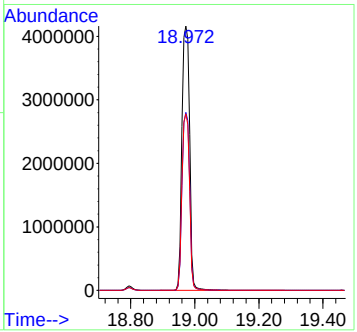


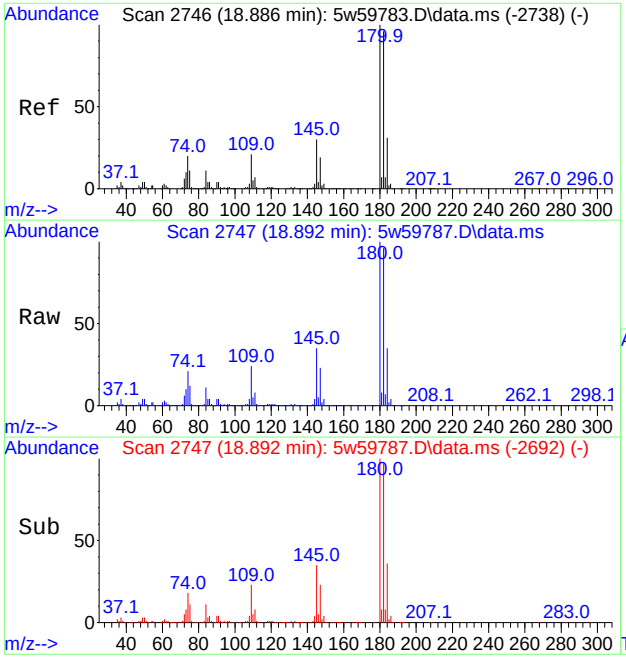


#106
HEXACHLOROBUTADIENE
Concen: 42.04 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:225 Resp: 6941797

Ion	Ratio	Lower	Upper
225	100		
227	66.3	34.2	94.2
223	65.7	33.3	93.3

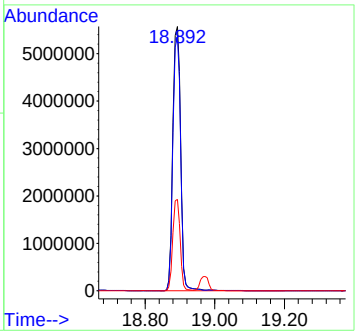


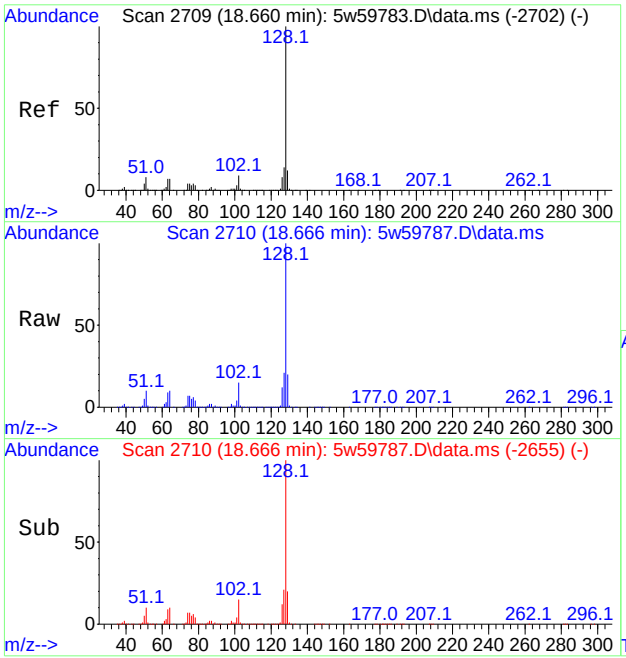


#107
1,2,4-TRICHLOROBENZENE
Concen: 50.18 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:180 Resp: 8668660

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	32.7	0.0	59.4

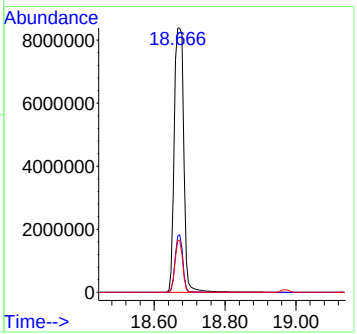


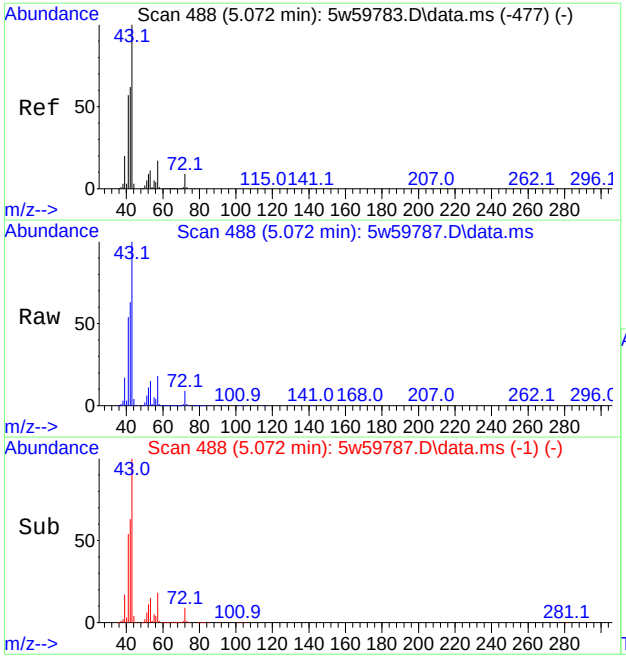


#108
NAPHTHALENE
Concen: 41.73 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:128 Resp:15644412

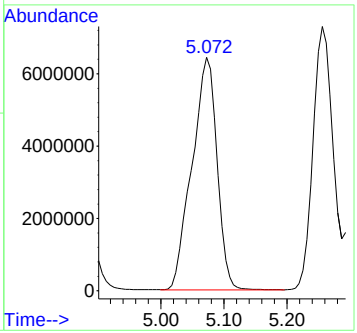
Ion	Ratio	Lower	Upper
128	100		
127	17.9	0.0	43.3
129	16.0	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 64.59 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:TIC Resp:17678397



Manual Integration Approval Summary

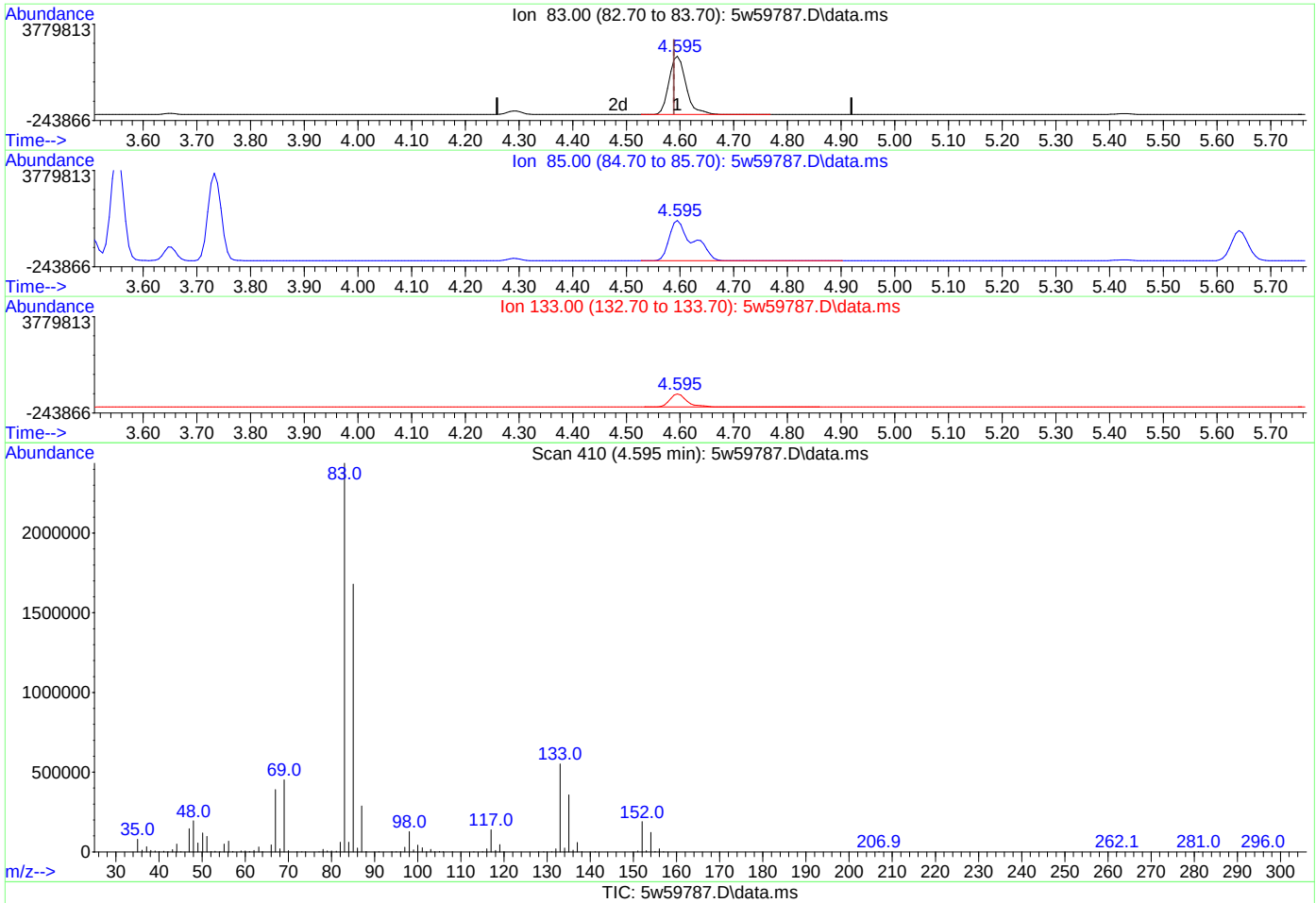
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59787.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 10:24 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV

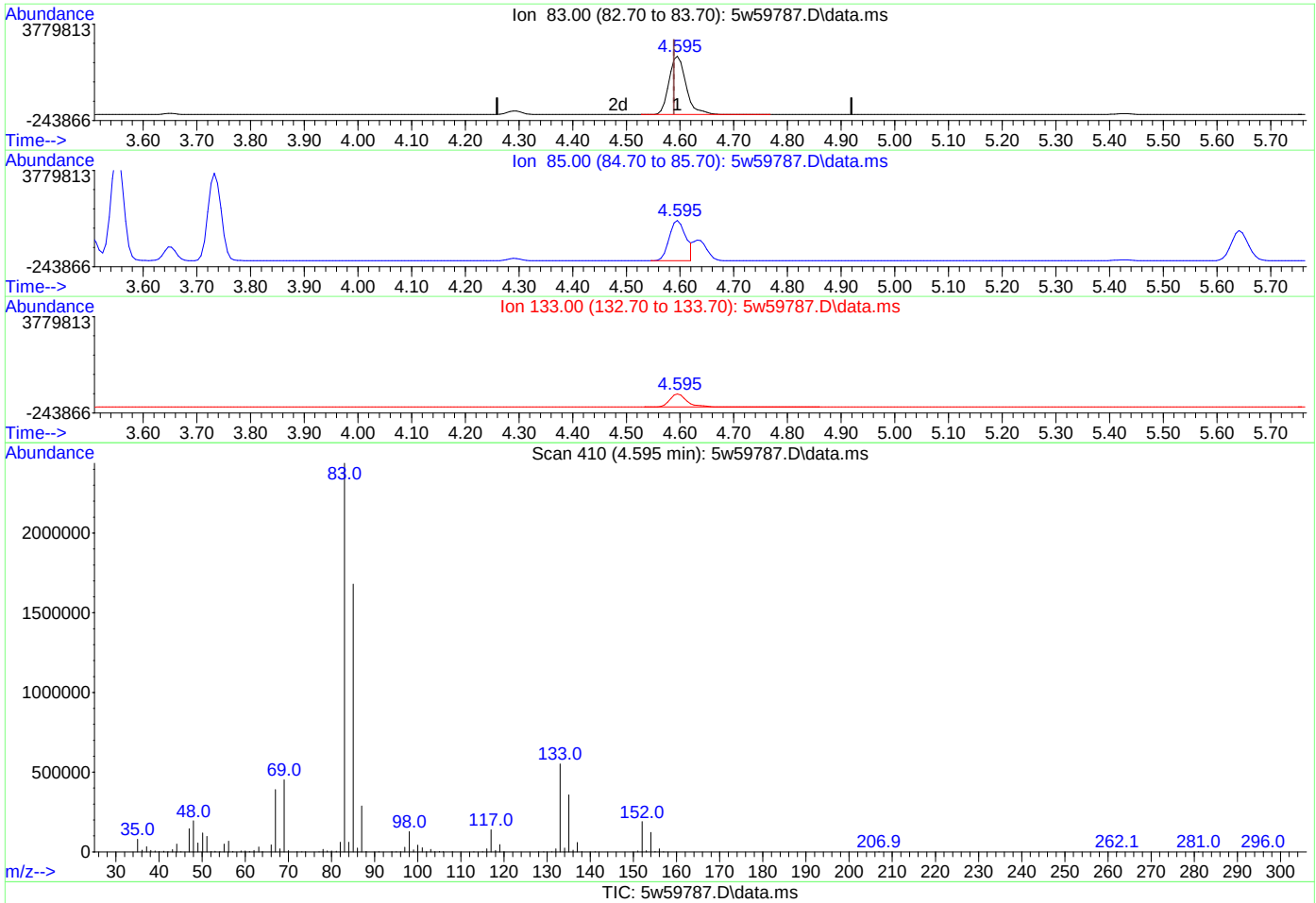
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	96.25#
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV m

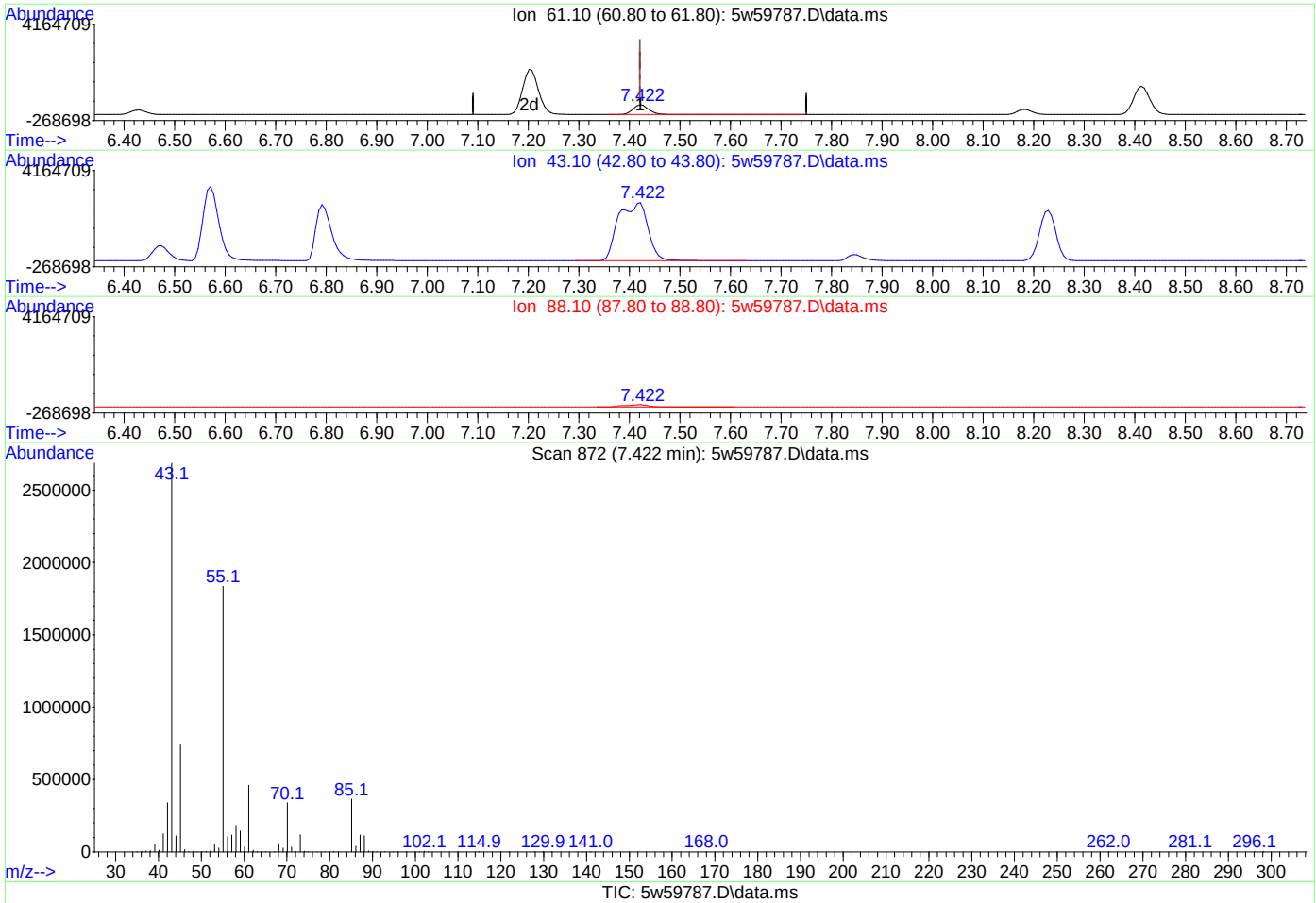
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	67.57
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV

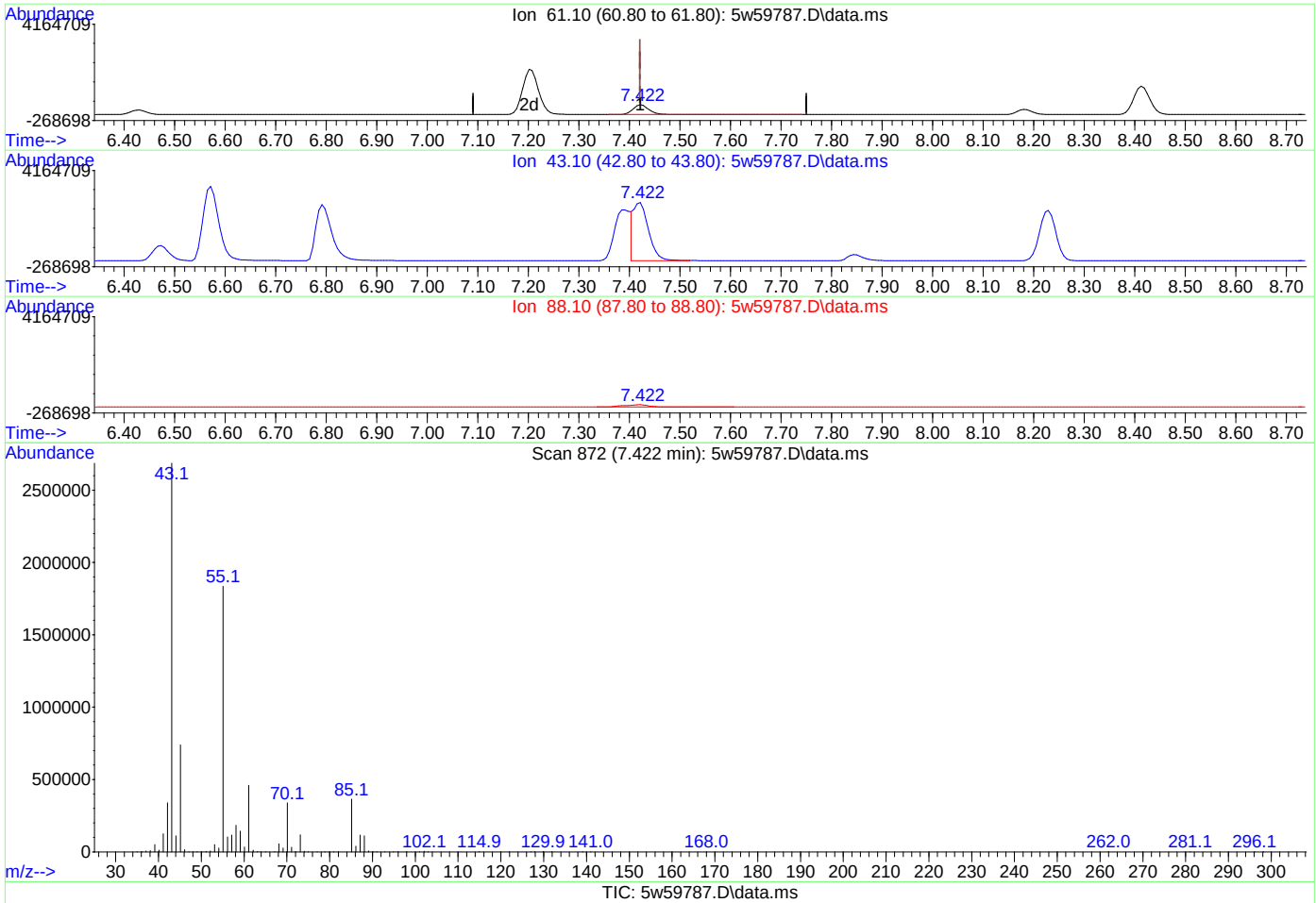
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1080.14#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV m

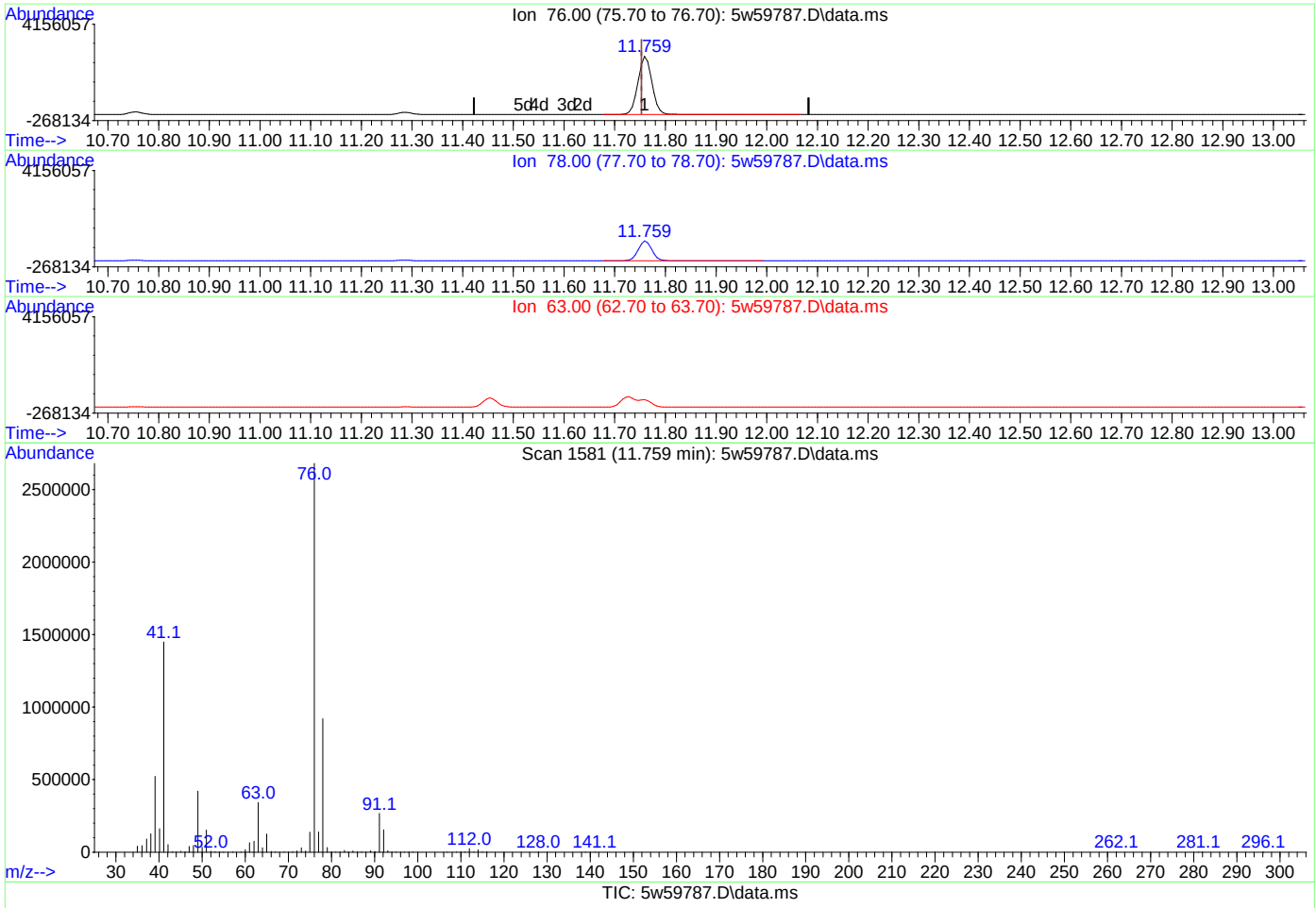
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	545.04#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV

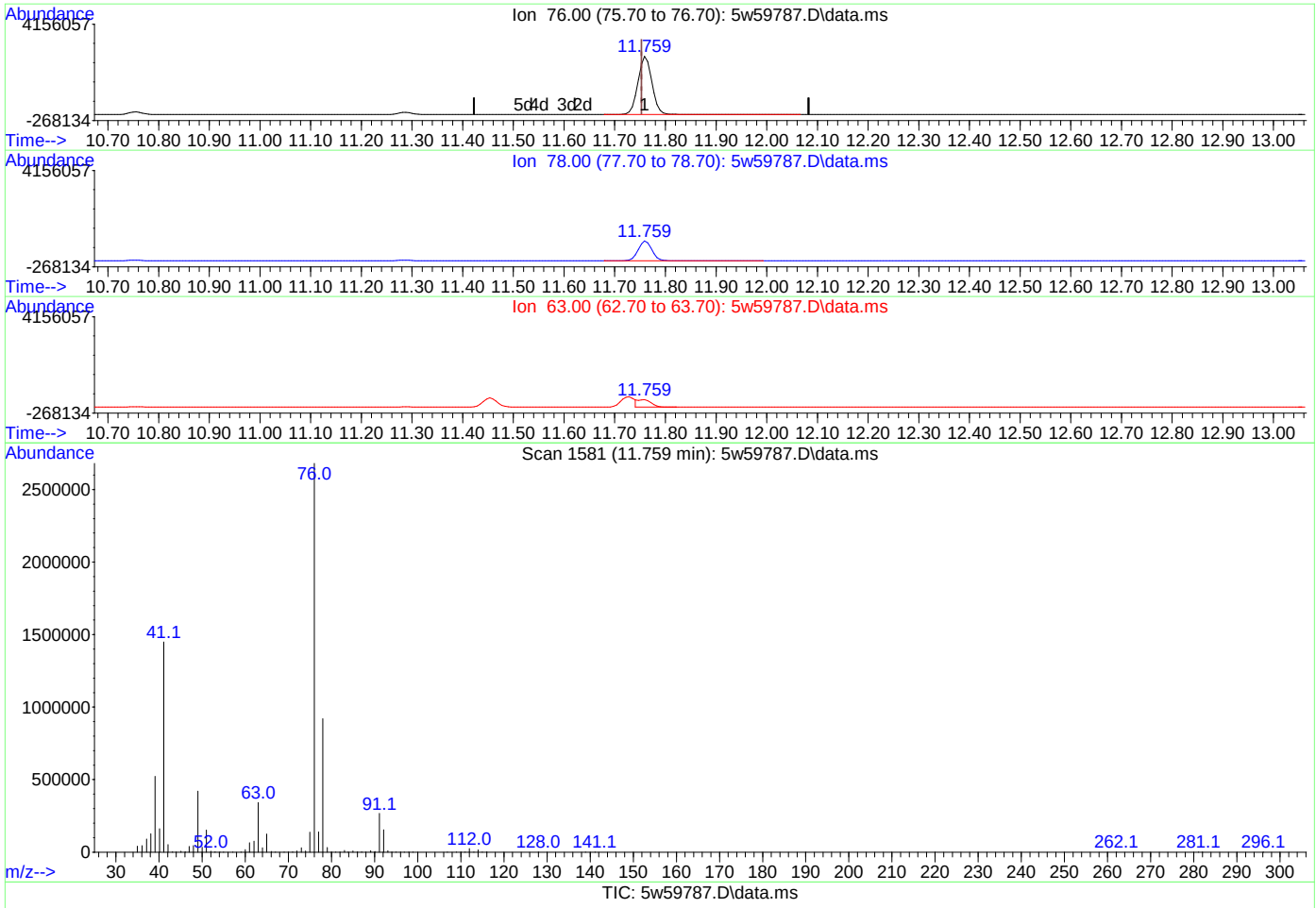
response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV m

response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	12.12
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	498212	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2163467	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1167536	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	498212	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1483789	10.17	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.70%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	415215	12.16	PPBV	100
3) FREON 152A	3.445	65	342794	9.28	PPBV	99
4) CHLORODIFLUOROMETHANE	3.476	67	168320	10.89	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	800294	10.34	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.549	85	1577776	11.07	PPBV	99
7) PROPYLENE	3.500	41	381437	9.97	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1137041	9.85	PPBV	100
9) FREON 114	3.732	85	1508684	11.57	PPBV	99
10) CHLOROMETHANE	3.665	52	156659	10.00	PPBV	98
11) VINYL CHLORIDE	3.818	62	498882	10.34	PPBV	99
12) 1,3-BUTADIENE	3.910	54	299983	10.32	PPBV	99
13) n-BUTANE	3.947	43	491620	10.35	PPBV	99
14) BROMOMETHANE	4.106	94	546593	10.65	PPBV	100
15) CHLOROETHANE	4.228	64	217760	9.25	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1122027	10.94	PPBV	100
17) ACETONITRILE	4.479	41	273749	10.09	PPBV	100
18) ACROLEIN	4.571	56	174000	11.29	PPBV	98
19) FREON 123	4.589	83	1172331	9.88	PPBV	73
20) FREON 123A	4.632	117	658691	9.67	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1322128	10.86	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	957946	9.81	PPBV	99
23) ACETONE	4.675	58	182115	9.32	PPBV	97
24) PENTANE	5.072	42	485024	9.56	PPBV	99
25) IODOMETHANE	5.256	142	1656951	10.92	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	514235	9.62	PPBV	99
27) CARBON DISULFIDE	5.672	76	1333722	9.53	PPBV	99
28) ETHANOL	4.314	45	175873	10.75	PPBV	99
29) BROMOETHENE	4.479	106	523753	10.35	PPBV	100
30) ACRYLONITRILE	5.042	52	335497	10.15	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	460743	9.22	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	235062	9.77	PPBV	98
33) FREON 113	5.641	151	936508	10.53	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	523452	9.34	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.372	59	1150749	11.52	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1424107	10.10	PPBV	100
37) TETRAHYDROFURAN	7.856	72	236078	12.20	PPBV	99
38) HEXANE	7.379	57	814752	10.24	PPBV	100
39) VINYL ACETATE	6.565	86	92915	11.55	PPBV #	94
40) 1,1-DICHLOROETHANE	6.424	63	1012856	9.85	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	231727	12.04	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.195	96	576053	9.43	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	255743	12.23	PPBV	99
44) ETHYL ACETATE	7.415	61	170036	11.56	PPBV #	1
45) METHYL ACRYLATE	7.403	55	1019941	12.95	PPBV	100
46) CHLOROFORM	7.477	83	1206541	10.89	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	967097	10.74	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1259183	10.90	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1361951	10.85	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	857881	11.15	PPBV		100
52)	BENZENE	8.853	78	1601042	11.05	PPBV		100
53)	CYCLOHEXANE	9.104	84	624324	10.78	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	314676	10.75	PPBV		98
55)	TRICHLOROETHYLENE	9.887	95	782511	10.60	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	634380	9.43	PPBV		100
57)	DIBROMOMETHANE	9.630	174	826704	10.02	PPBV		100
58)	ETHYL ACRYLATE	9.679	55	1259813	11.98	PPBV		100
59)	BROMODICHLOROMETHANE	9.850	83	1390089	10.86	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2555629	11.14	PPBV		100
61)	1,4-DIOXANE	9.899	88	390530	11.81	PPBV	#	89
62)	HEPTANE	10.187	43	861635	10.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	552495	11.70	PPBV		100
64)	METHYL ISOBUTYL KETONE	10.792	58	532725	12.46	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	10.749	75	990327	9.61	PPBV		100
66)	TOLUENE	11.722	92	1196655	11.05	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	950675	10.77	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	940495	9.66	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	646298	10.99	PPBV		100
71)	2-HEXANONE	12.010	58	770539	12.62	PPBV		99
72)	ETHYL METHACRYLATE	12.022	69	966723	11.99	PPBV		99
73)	TETRACHLOROETHYLENE	12.872	164	915172	11.49	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.150	129	1566467	11.39	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	1272221	11.89	PPBV		100
76)	OCTANE	12.744	43	1249572	11.27	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1017442	11.62	PPBV		99
78)	CHLOROBENZENE	13.582	112	1647850	11.30	PPBV		100
79)	ETHYLBENZENE	13.986	91	2597260	11.61	PPBV		100
80)	m,p-XYLENE	14.182	106	2050019	23.24	PPBV		100
81)	o-XYLENE	14.677	106	1016013	12.30	PPBV		99
82)	STYRENE	14.567	104	1531560	11.88	PPBV		100
83)	NONANE	14.934	43	1246325	11.11	PPBV		100
84)	BROMOFORM	14.249	173	1671641	12.32	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1743965	12.14	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1202955	10.42	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2910298	11.51	PPBV		100
89)	BROMOBENZENE	15.374	77	1429493	10.87	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	779180	11.13	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	807953	11.92	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2990249	12.93	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2480601	11.54	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.194	118	1177774	11.12	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	570968	13.08	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2612198	13.02	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1916772	12.50	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2335931	12.63	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1889997	11.46	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	670798	12.13	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2623929	12.36	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	794033	12.67	PPBV		100
103)	o-DICHLOROBENZENE	16.977	146	1807576	11.75	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	753590	12.27	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1153176	10.90	PPBV		100
106)	HEXACHLOROBUTADIENE	18.966	225	1732361	12.11	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1717833	12.05	PPBV		99
108)	NAPHTHALENE	18.660	128	3898122	12.54	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	3177953	10.55	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

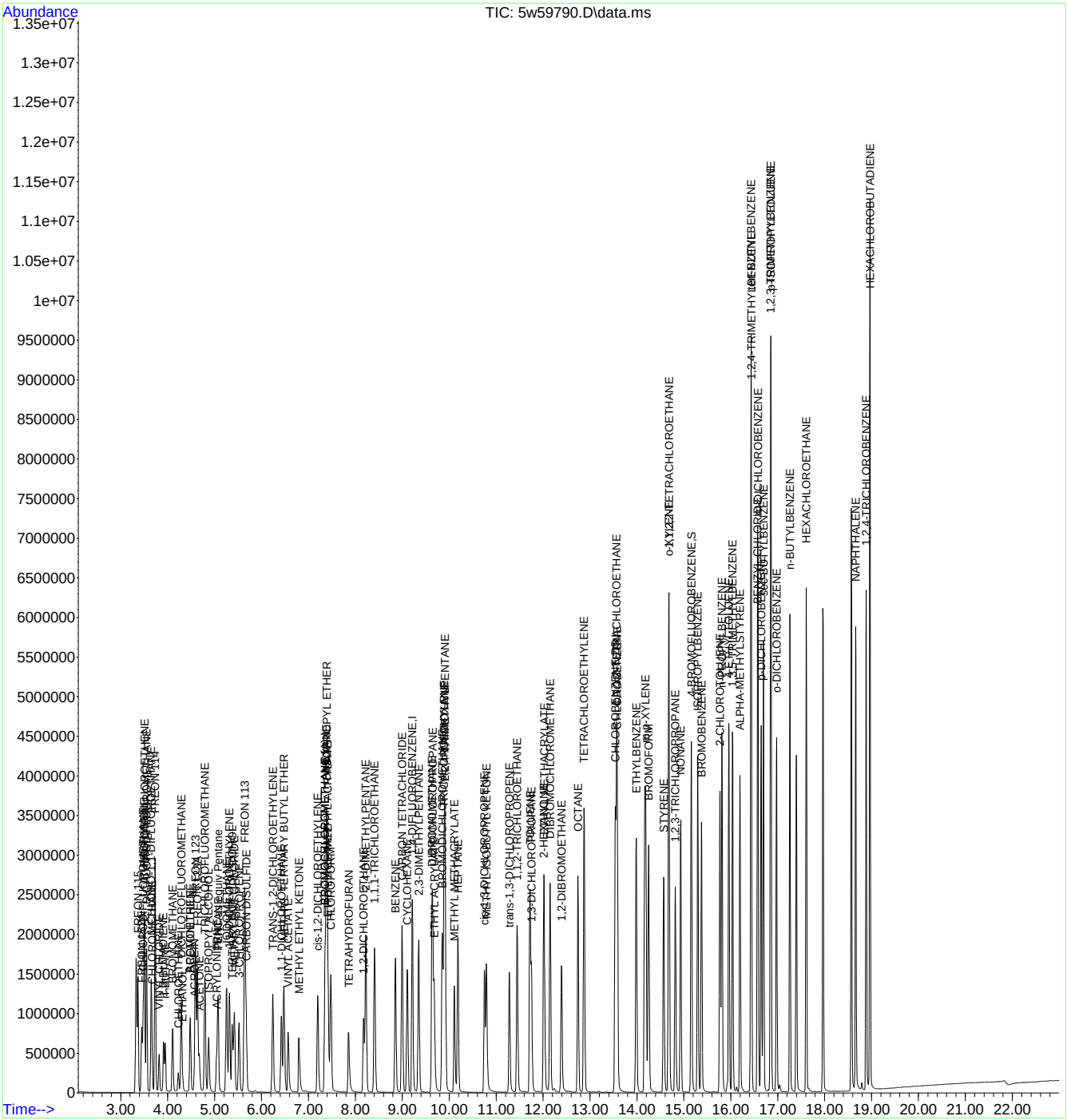
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

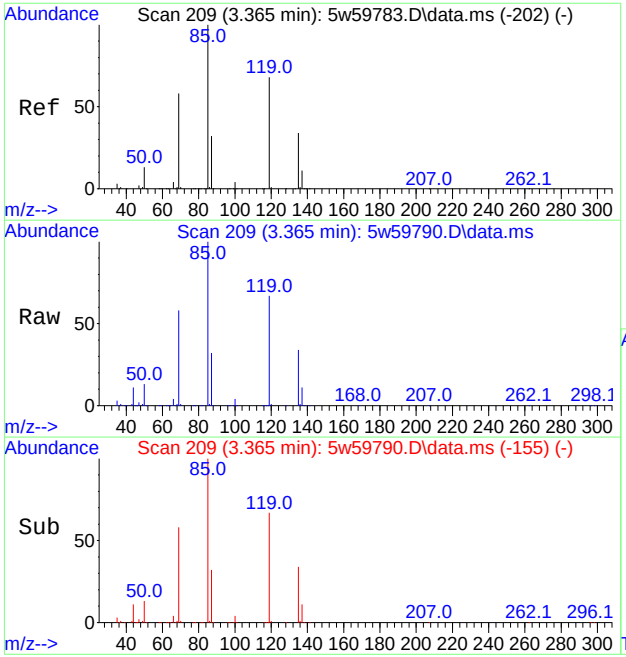
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

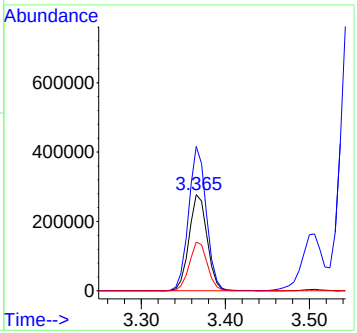


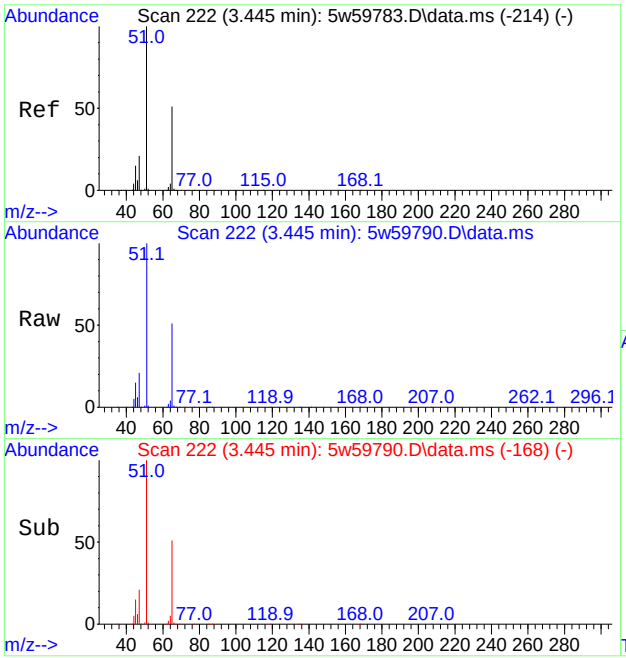


#2
FREON 115
Concen: 12.16 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:119 Resp: 415215

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.4	20.6	80.6

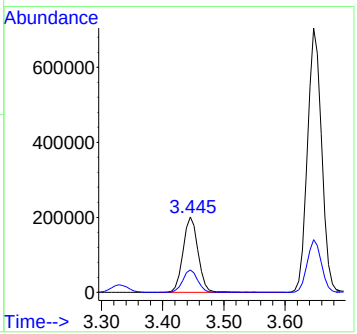


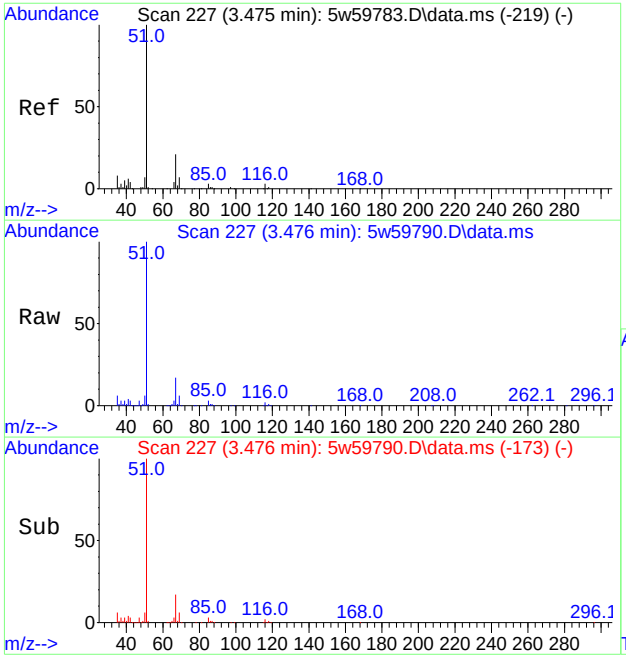


#3
FREON 152A
Concen: 9.28 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 342794

Ion	Ratio	Lower	Upper
65	100		
45	29.5	0.0	60.0

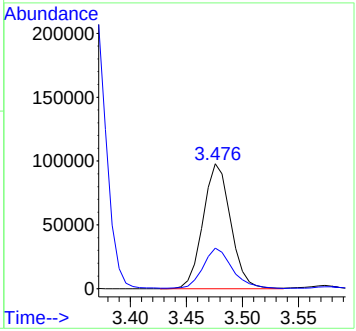


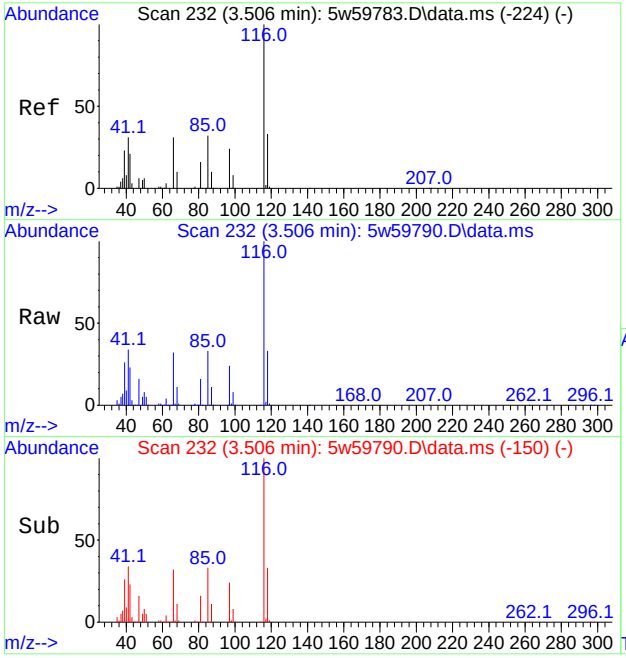


#4
CHLORODIFLUOROMETHANE
Concen: 10.89 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 168320

Ion	Ratio	Lower	Upper
67	100		
69	32.5	1.0	61.0

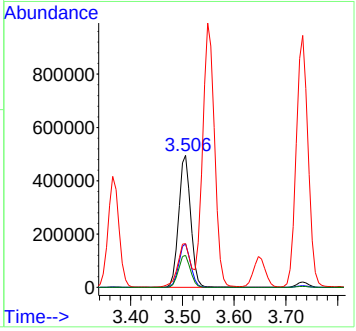


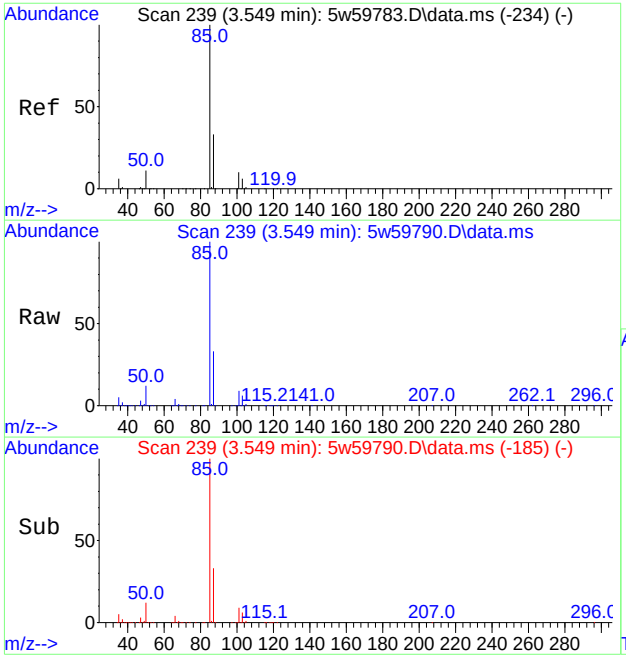


#5
CHLOROTRIFLUOROETHENE
Concen: 10.34 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:116 Resp: 800294

Ion	Ratio	Lower	Upper
116	100		
118	32.6	22.9	42.5
85	37.1	23.7	44.1
97	24.1	17.0	31.6

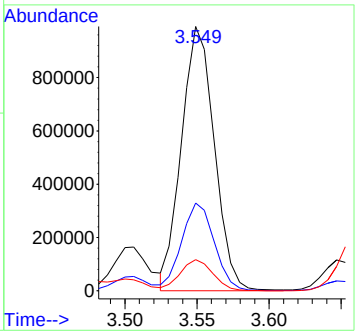


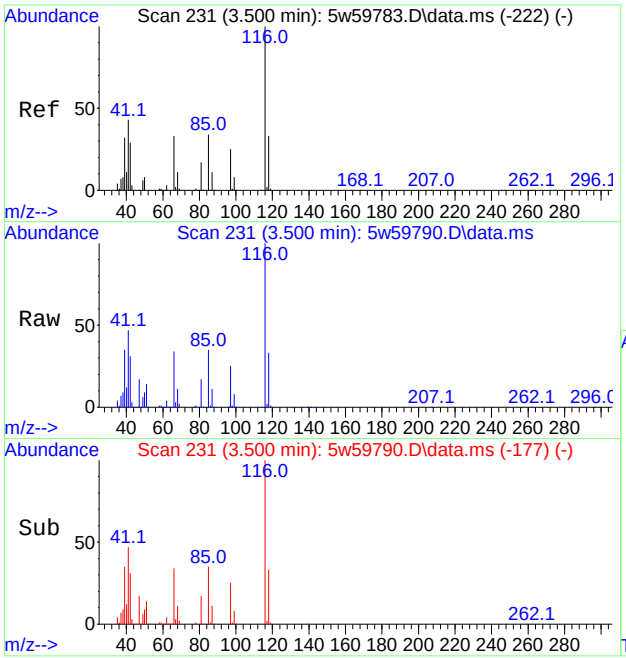


#6
DICHLORODIFLUOROMETHANE
Concen: 11.07 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1577776

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

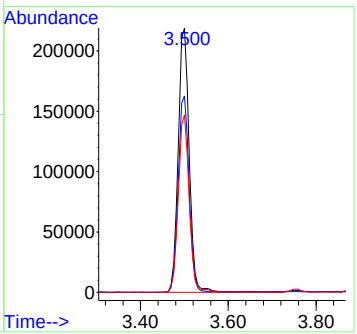


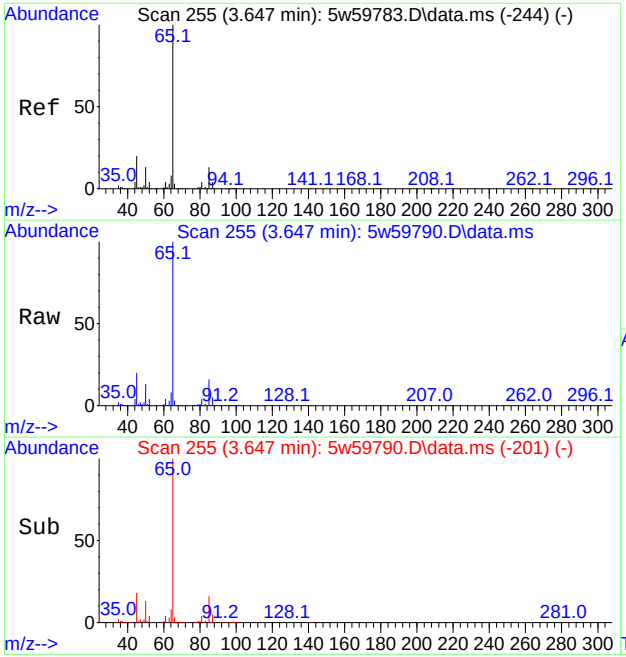


#7
PROPYLENE
Concen: 9.97 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 381437

Ion	Ratio	Lower	Upper
41	100		
39	75.5	45.1	105.1
42	66.3	36.3	96.3

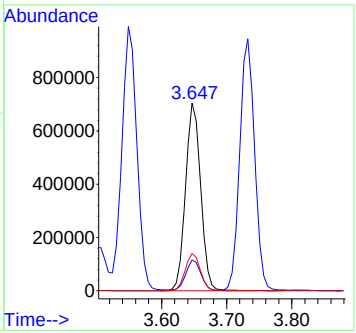


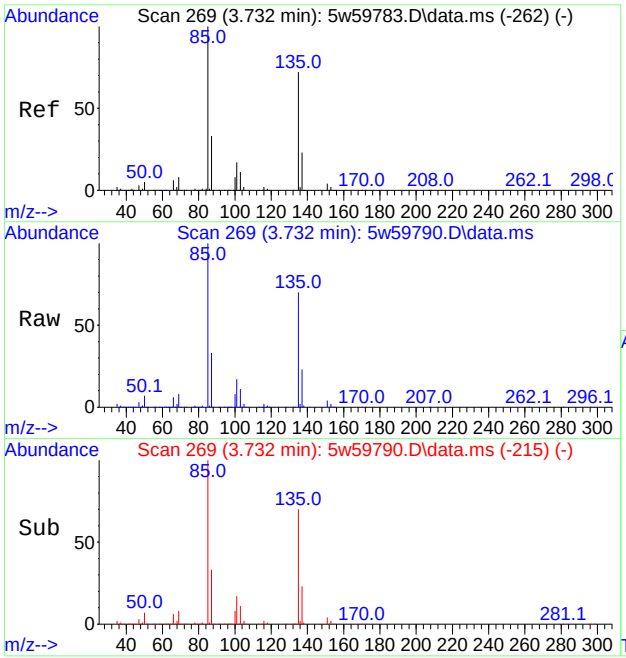


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 9.85 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 1137041

Ion	Ratio	Lower	Upper
65	100		
85	16.5	11.5	21.3
45	20.0	14.0	26.0

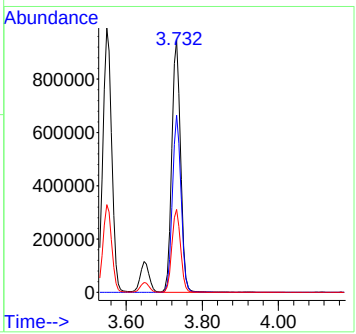


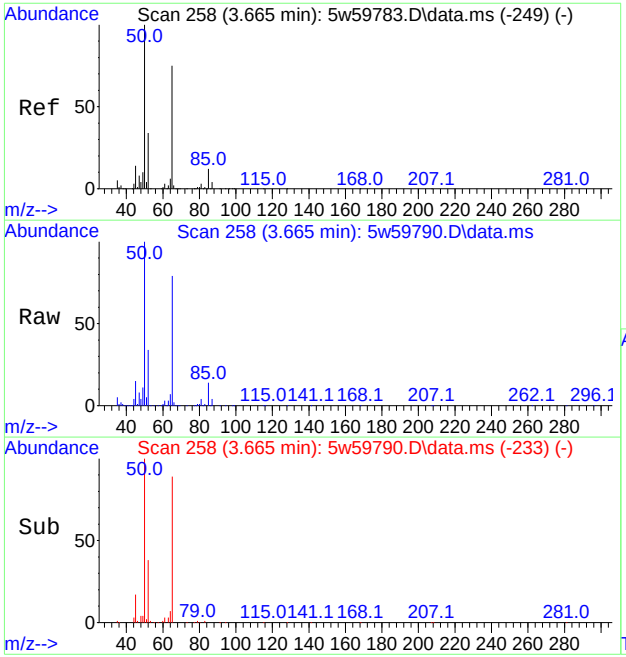


#9
FREON 114
Concen: 11.57 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1508684

Ion	Ratio	Lower	Upper
85	100		
135	69.6	40.5	100.5
87	32.8	3.0	63.0

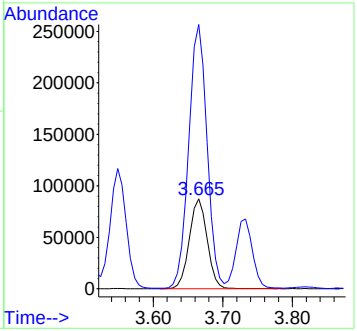


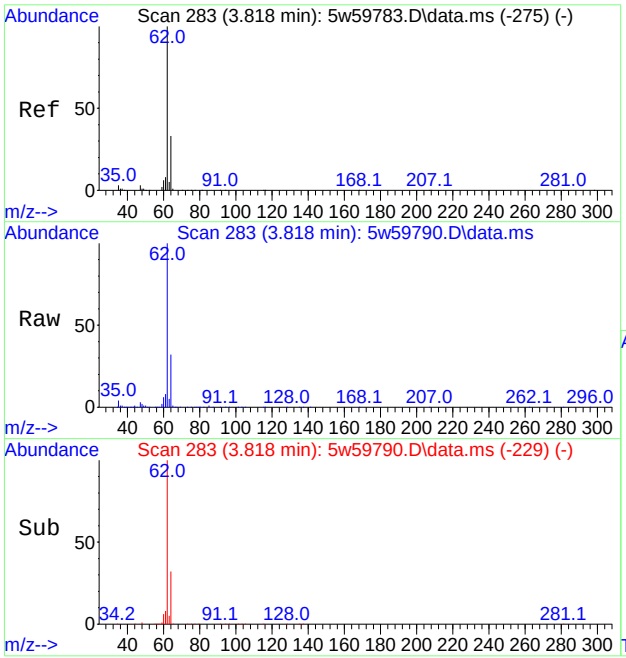


#10
CHLOROMETHANE
Concen: 10.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 156659

Ion	Ratio	Lower	Upper
52	100		
50	293.1	267.9	327.9

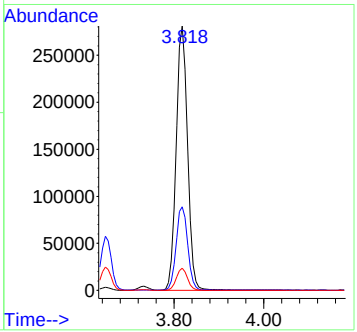


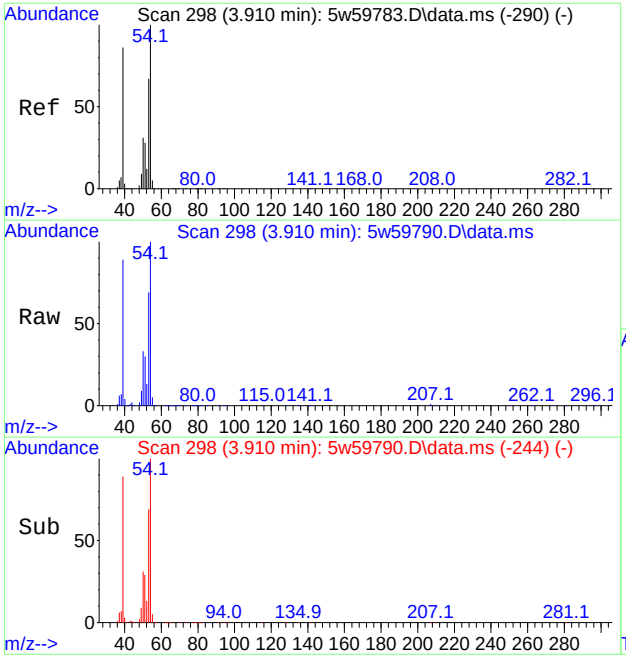


#11
VINYL CHLORIDE
Concen: 10.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 498882

Ion	Ratio	Lower	Upper
62	100		
64	32.9	3.6	63.6
61	8.2	0.0	38.2

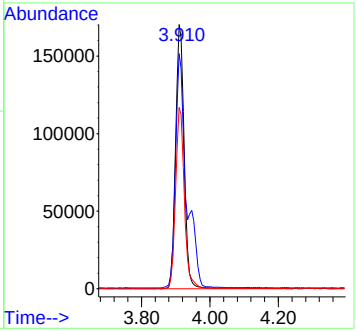


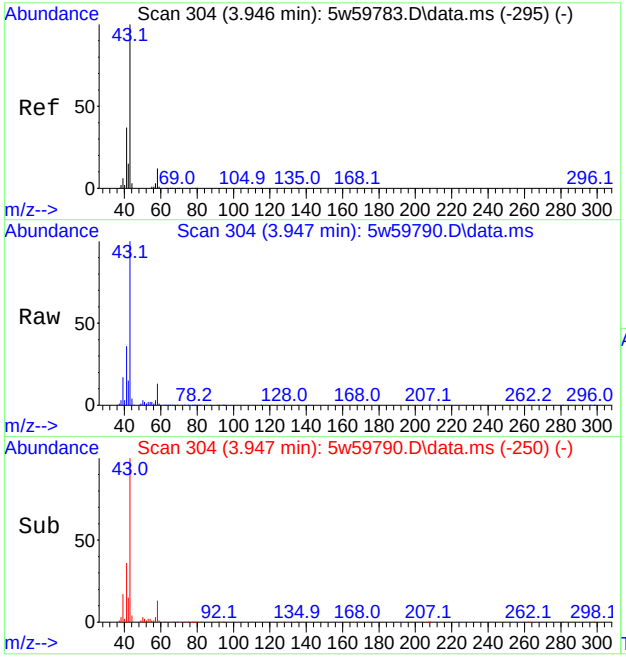


#12
1,3-BUTADIENE
Concen: 10.32 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 54 Resp: 299983

Ion	Ratio	Lower	Upper
54	100		
39	113.6	82.0	142.0
53	71.1	40.2	100.2

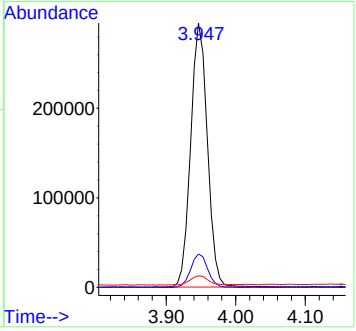


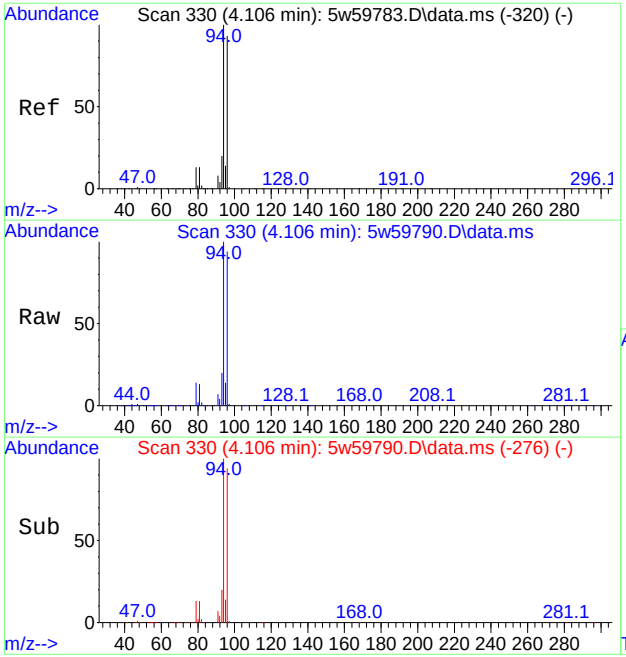


#13
n-BUTANE
Concen: 10.35 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 491620

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	3.8	0.0	34.9

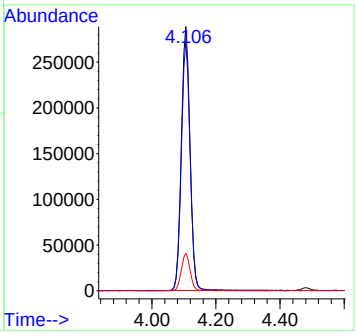


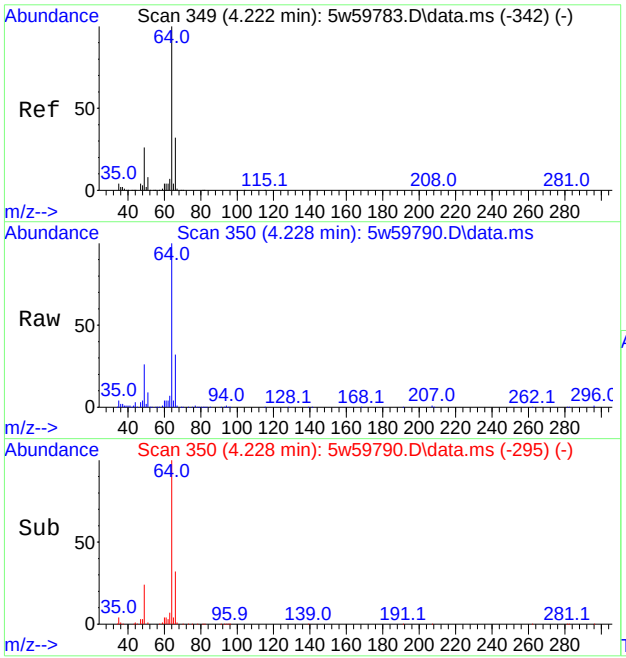


#14
BROMOMETHANE
Concen: 10.65 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 94 Resp: 546593

Ion	Ratio	Lower	Upper
94	100		
96	95.2	65.3	125.3
95	14.3	0.0	44.1

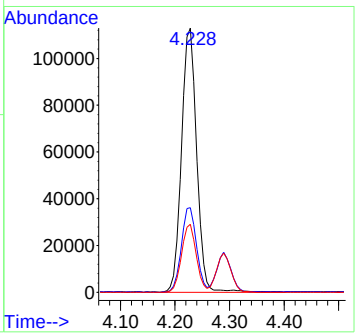


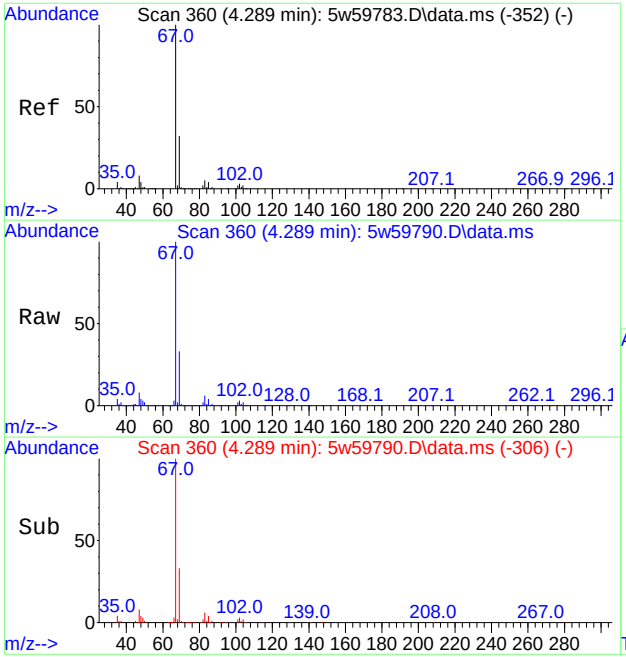


#15
CHLOROETHANE
Concen: 9.25 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 64 Resp: 217760

Ion	Ratio	Lower	Upper
64	100		
66	32.0	3.1	63.1
49	25.0	0.0	55.3

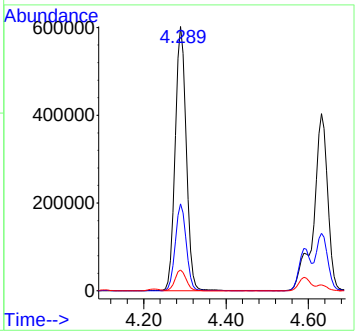


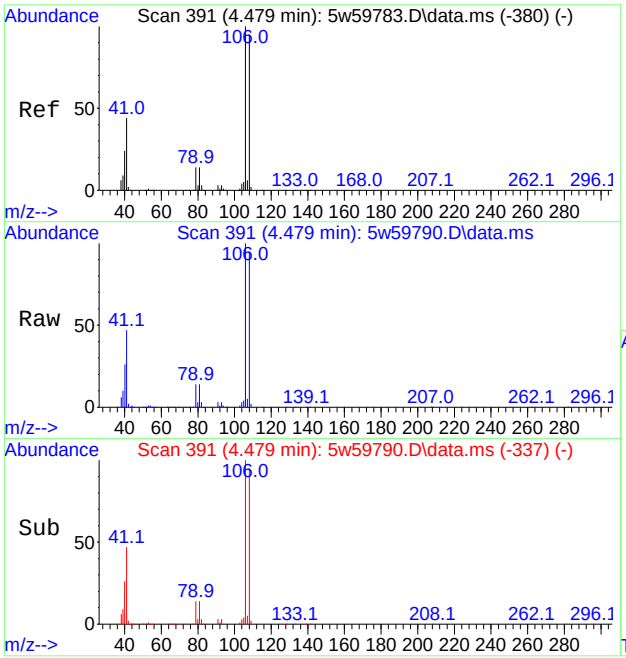


#16
DICHLOROFLUOROMETHANE
Concen: 10.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 1122027

Ion	Ratio	Lower	Upper
67	100		
69	32.6	22.7	42.3
47	8.0	5.6	10.4

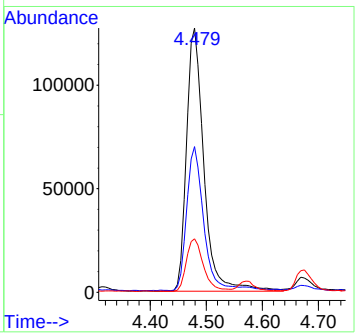


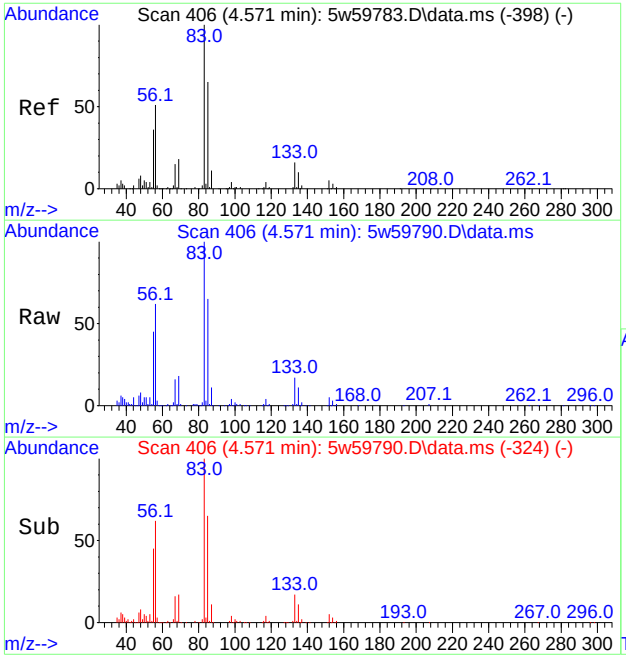


#17
ACETONITRILE
Concen: 10.09 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 273749

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.5	13.4	24.8

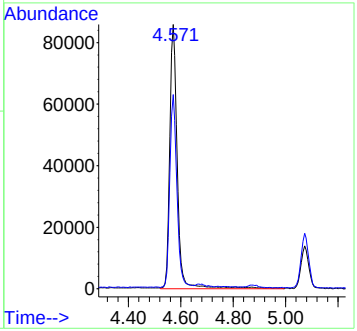


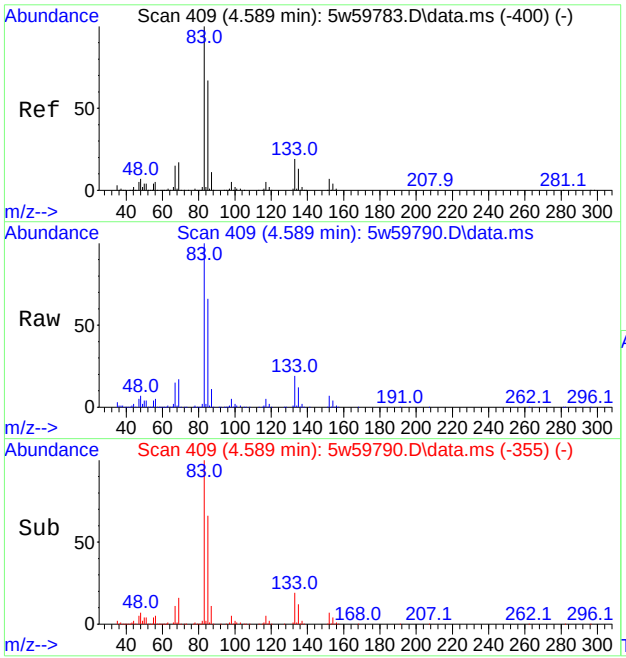


#18
ACROLEIN
Concen: 11.29 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 56 Resp: 174000

Ion	Ratio	Lower	Upper
56	100		
55	68.2	46.6	86.6

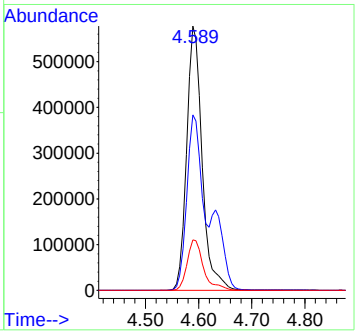


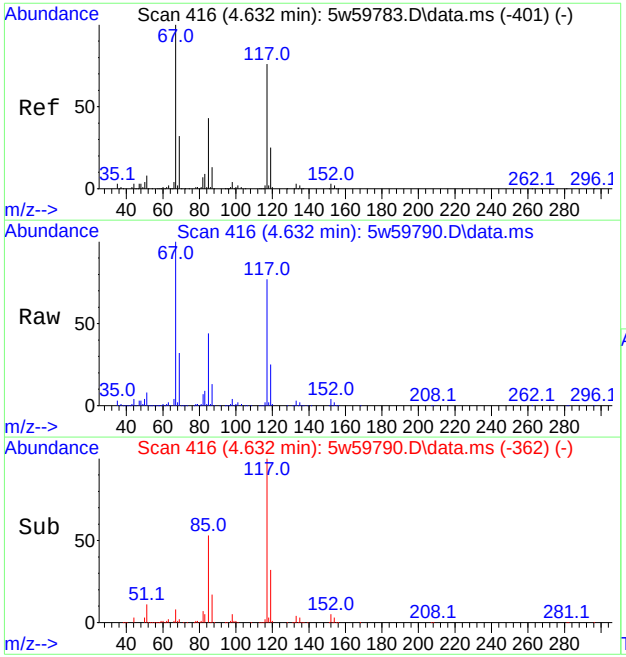


#19
FREON 123
Concen: 9.88 PPBV
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1172331

Ion	Ratio	Lower	Upper
83	100		
85	92.1	34.0	94.0
133	20.4	0.0	50.7

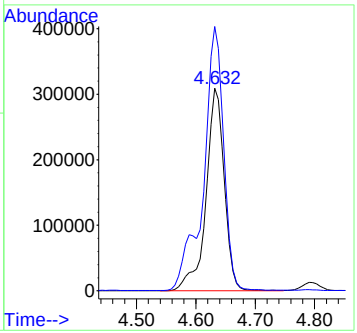


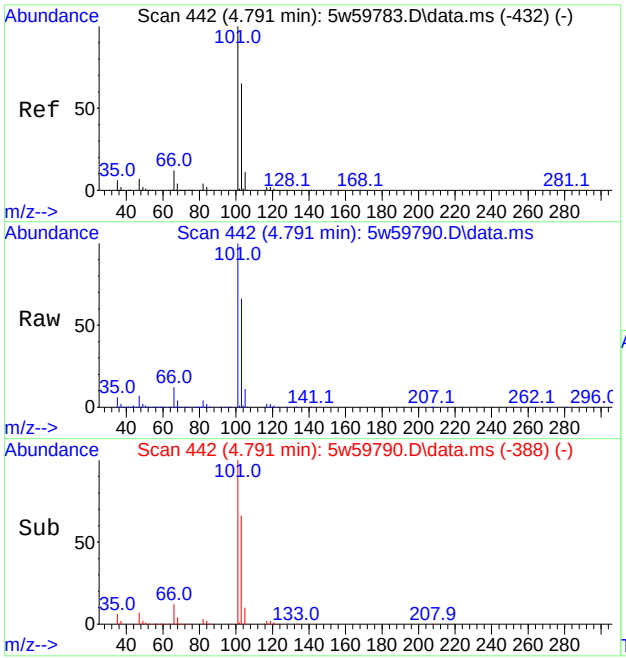


#20
FREON 123A
Concen: 9.67 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 658691

Ion	Ratio	Lower	Upper
117	100		
67	145.1	114.6	174.6

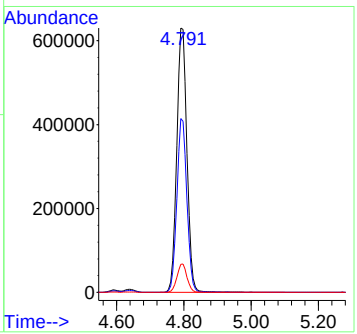


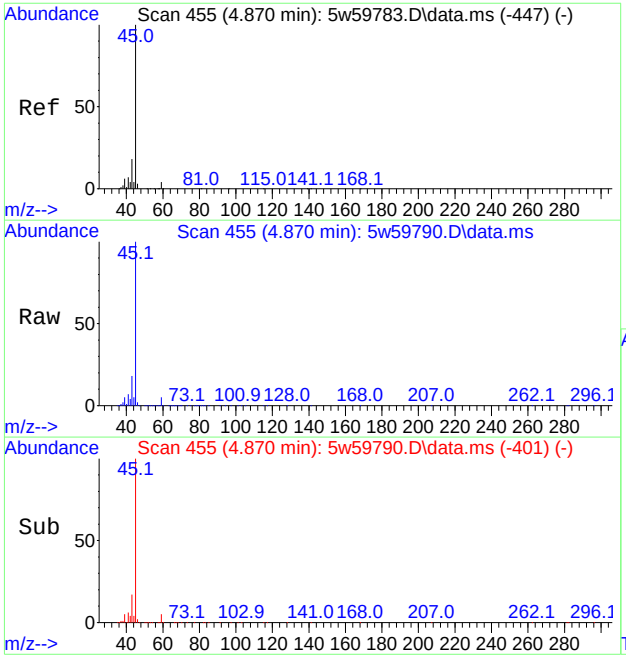


#21
TRICHLOROFLUOROMETHANE
Concen: 10.86 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:101 Resp: 1322128

Ion	Ratio	Lower	Upper
101	100		
103	65.1	35.0	95.0
105	10.7	0.0	40.7

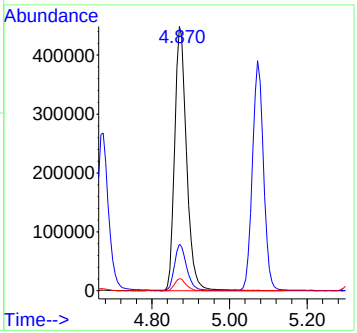


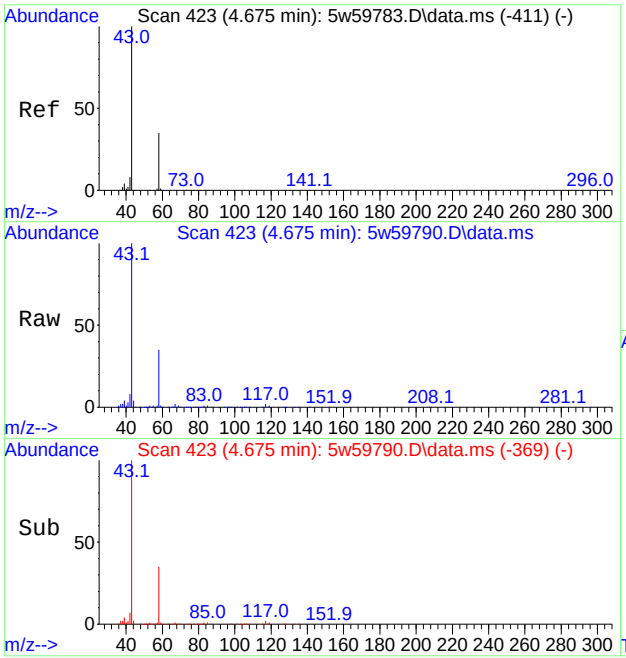


#22
ISOPROPYL ALCOHOL
Concen: 9.81 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 957946

Ion	Ratio	Lower	Upper
45	100		
43	17.6	0.0	47.8
59	4.6	0.0	34.1

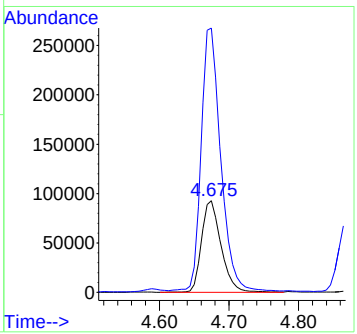


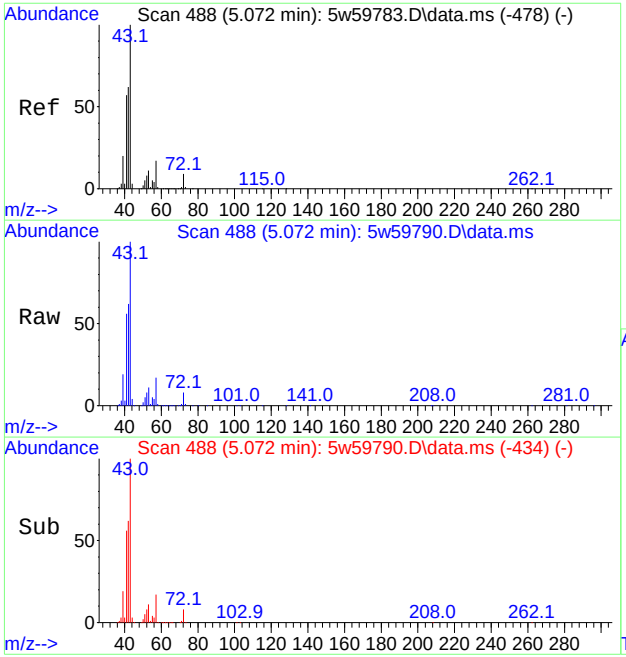


#23
ACETONE
Concen: 9.32 PPBV
RT: 4.675 min Scan# 423
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 182115

Ion	Ratio	Lower	Upper
58	100		
43	287.5	252.3	312.3

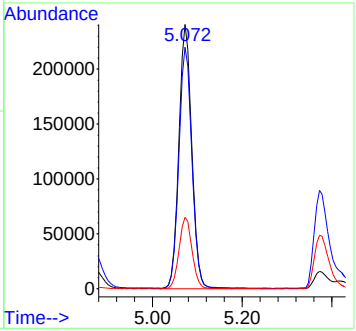


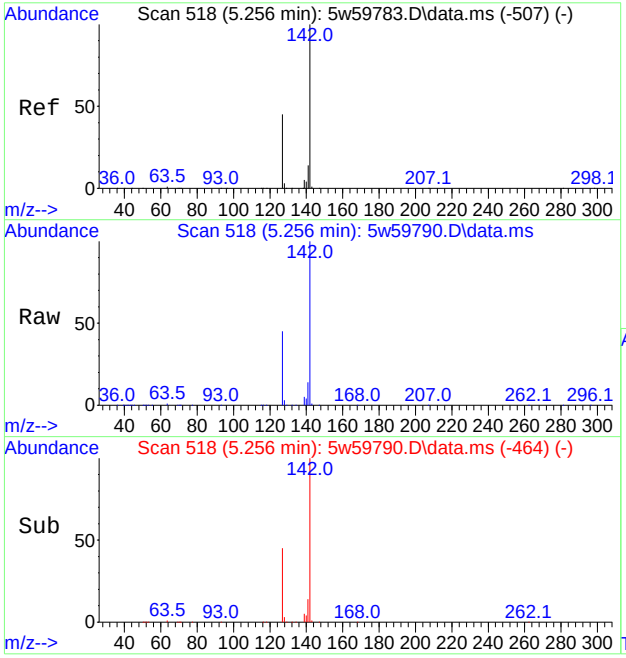


#24
PENTANE
Concen: 9.56 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 42 Resp: 485024

Ion	Ratio	Lower	Upper
42	100		
41	91.0	62.3	122.3
57	27.3	0.0	57.7

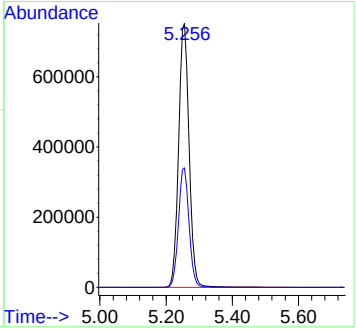


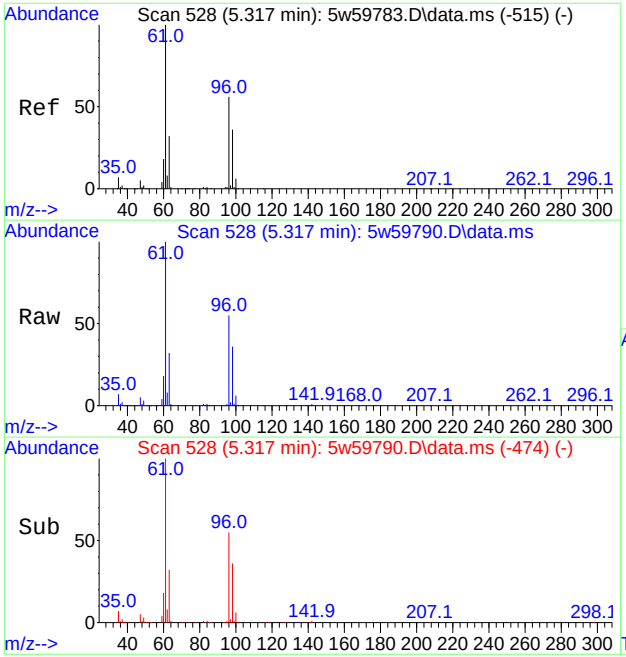


#25
IODOMETHANE
Concen: 10.92 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:142 Resp: 1656951

Ion	Ratio	Lower	Upper
142	100		
127	45.8	16.0	76.0

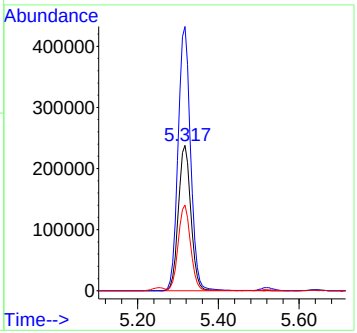


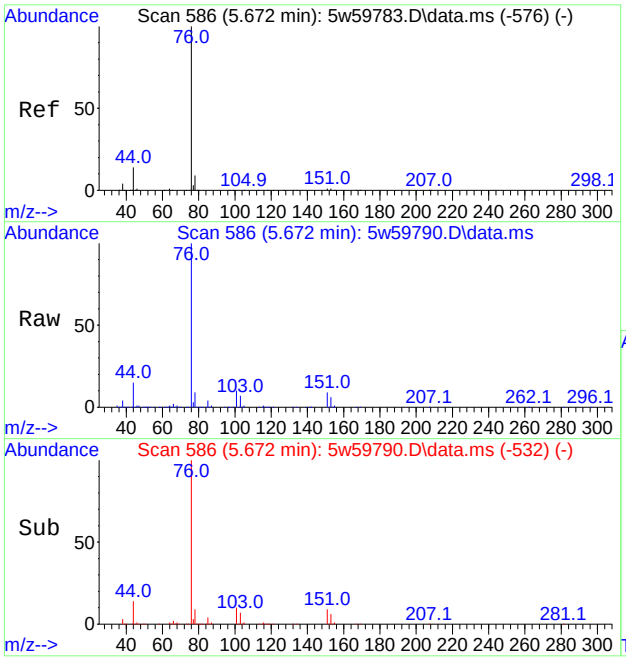


#26
1,1-DICHLOROETHYLENE
Concen: 9.62 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 514235

Ion	Ratio	Lower	Upper
96	100		
61	180.7	148.5	208.5
63	58.0	27.4	87.4

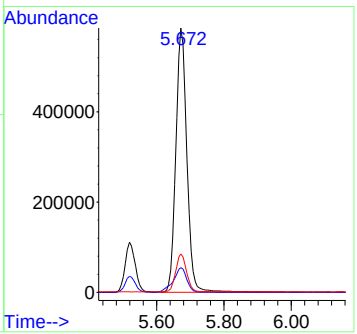


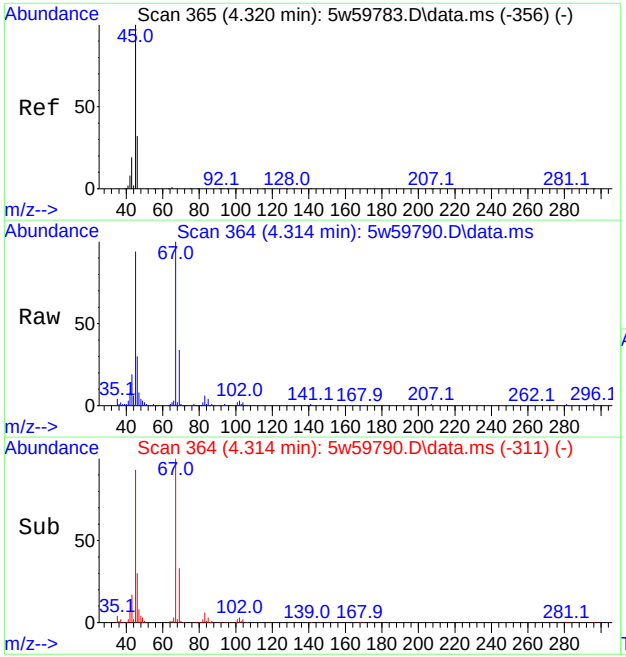


#27
CARBON DISULFIDE
Concen: 9.53 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 1333722

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	14.3	0.0	44.6

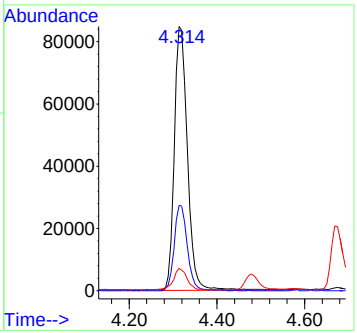


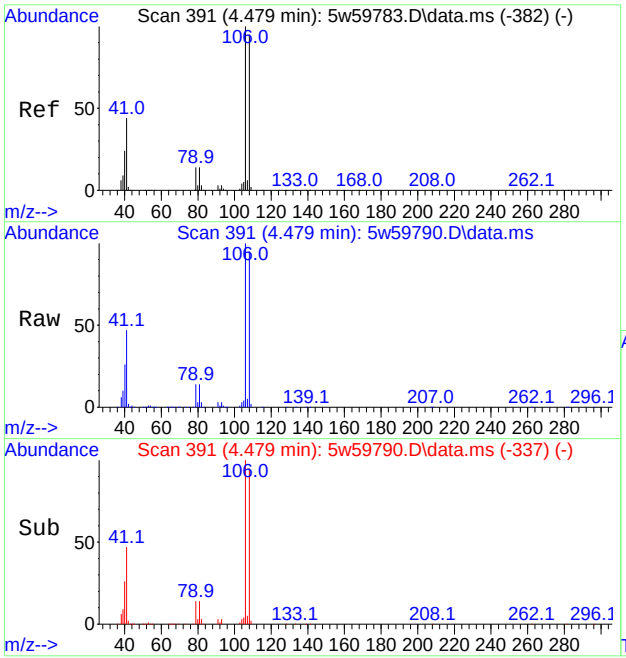


#28
ETHANOL
Concen: 10.75 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 175873

Ion	Ratio	Lower	Upper
45	100		
46	32.5	2.0	62.0
42	8.3	0.0	38.5

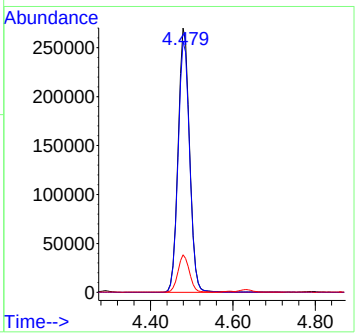


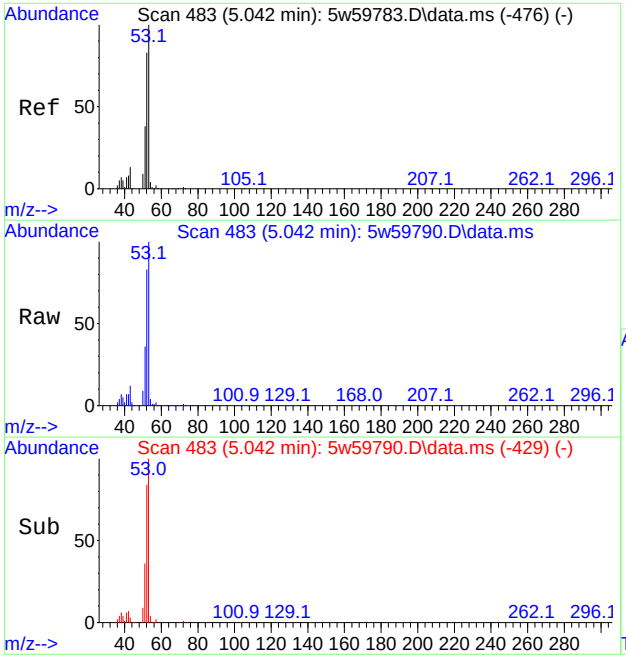


#29
BROMOETHENE
Concen: 10.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 523753

Ion	Ratio	Lower	Upper
106	100		
108	95.9	65.6	125.6
81	14.0	0.0	43.9

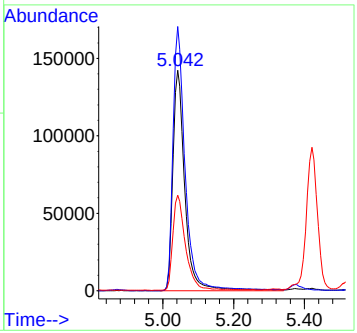


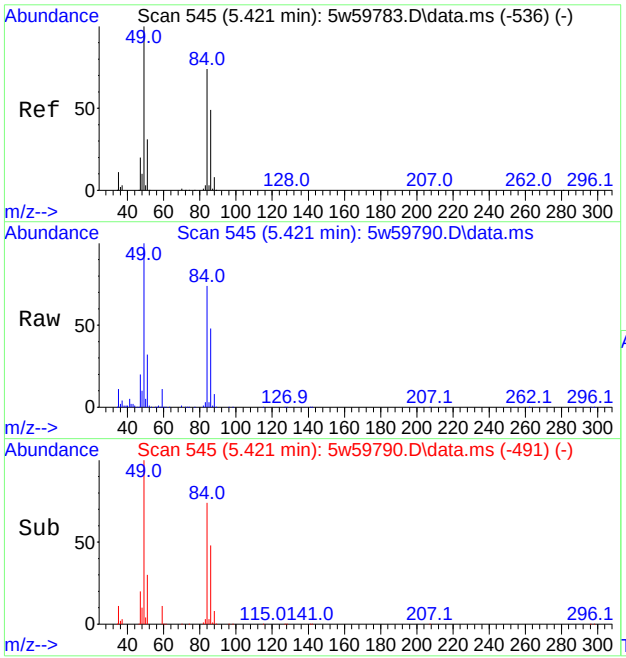


#30
ACRYLONITRILE
Concen: 10.15 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 335497

Ion	Ratio	Lower	Upper
52	100		
53	122.5	85.8	159.4
51	46.4	32.3	60.1

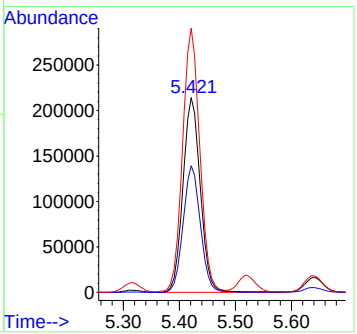


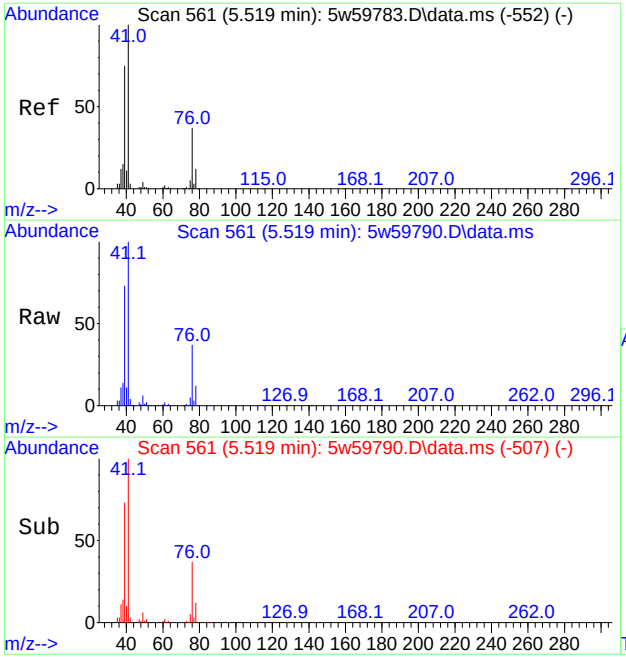


#31
METHYLENE CHLORIDE
Concen: 9.22 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 460743

Ion	Ratio	Lower	Upper
84	100		
86	64.8	35.2	95.2
49	134.8	105.3	165.3

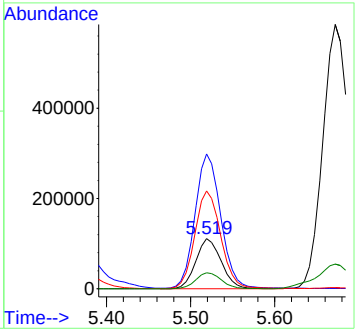


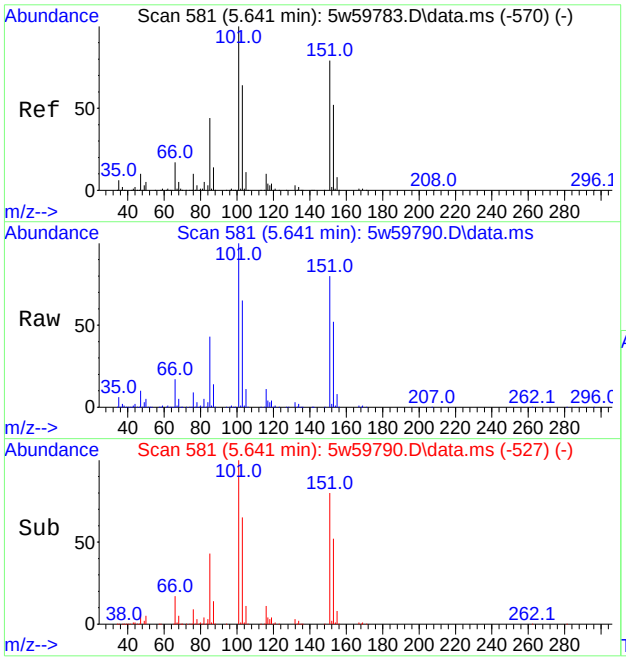


#32
3-CHLOROPROPENE
Concen: 9.77 PPBV
RT: 5.519 min Scan# 561
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 235062

Ion	Ratio	Lower	Upper
76	100		
41	271.7	240.8	300.8
39	197.9	173.6	233.6
78	32.5	2.8	62.8

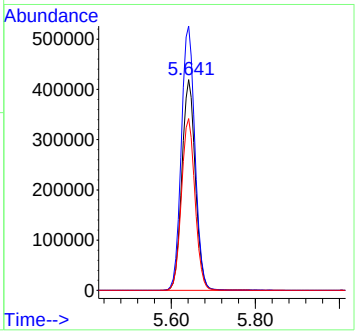


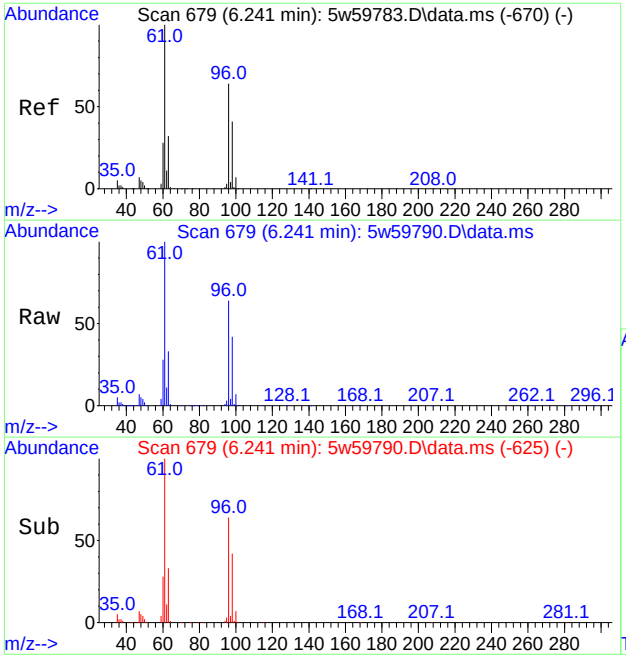


#33
FREON 113
Concen: 10.53 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:151 Resp: 936508

Ion	Ratio	Lower	Upper
151	100		
101	126.4	97.5	157.5
103	82.0	52.5	112.5

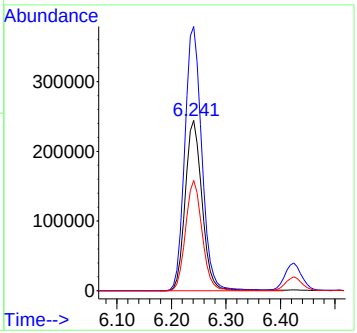


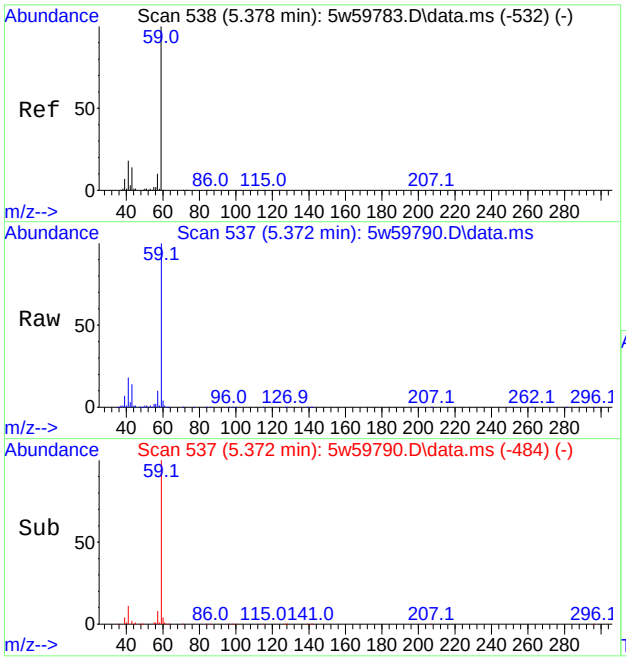


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 9.34 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 523452

Ion	Ratio	Lower	Upper
96	100		
61	156.5	126.4	186.4
98	63.9	34.1	94.1

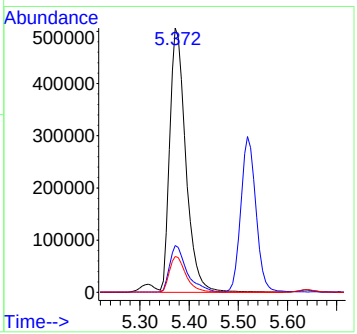


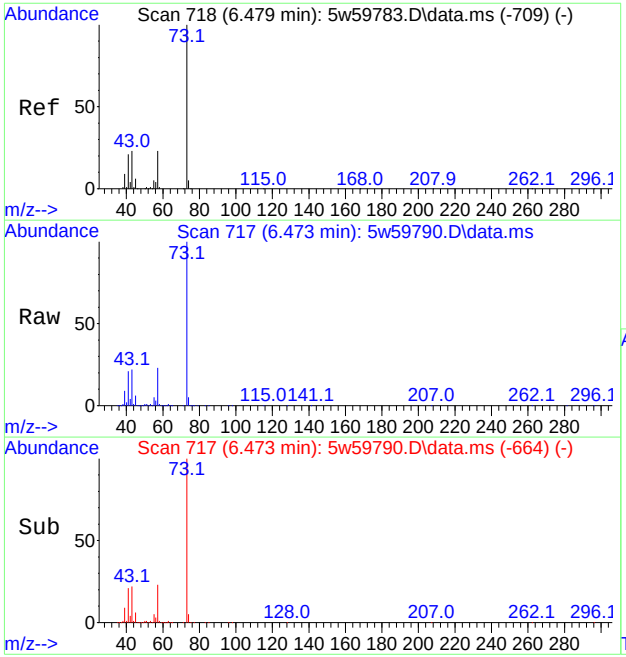


#35
TERTIARY BUTYL ALCOHOL
Concen: 11.52 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 1150749

Ion	Ratio	Lower	Upper
59	100		
41	19.0	0.0	49.3
43	13.9	0.0	44.1

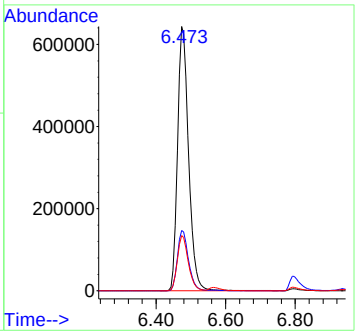


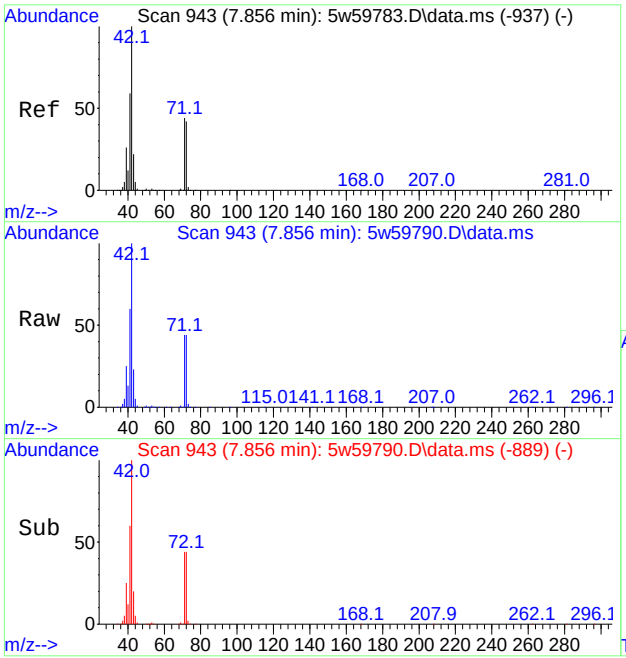


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.10 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 73 Resp: 1424107

Ion	Ratio	Lower	Upper
73	100		
57	23.2	0.0	53.1
41	20.7	0.0	50.6

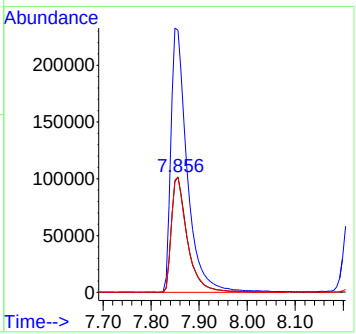


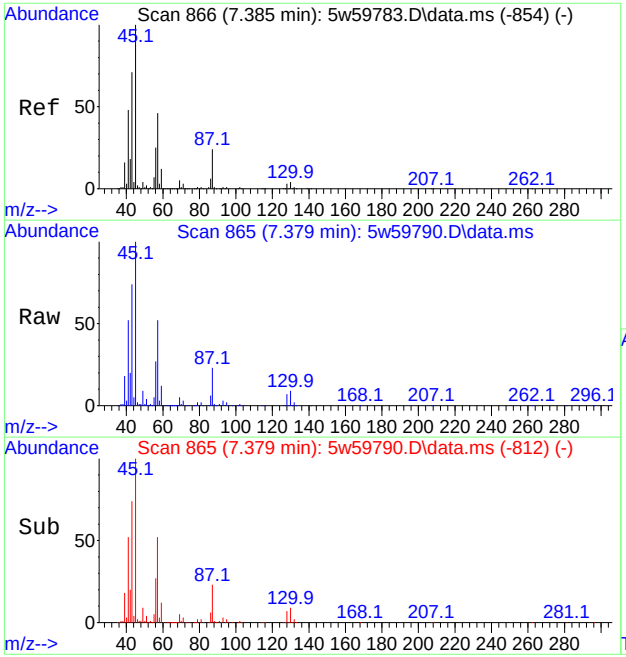


#37
TETRAHYDROFURAN
Concen: 12.20 PPBV
RT: 7.856 min Scan# 943
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 236078

Ion	Ratio	Lower	Upper
72	100		
42	233.9	202.4	262.4
71	99.8	71.1	131.1

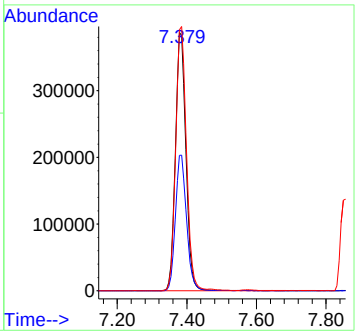


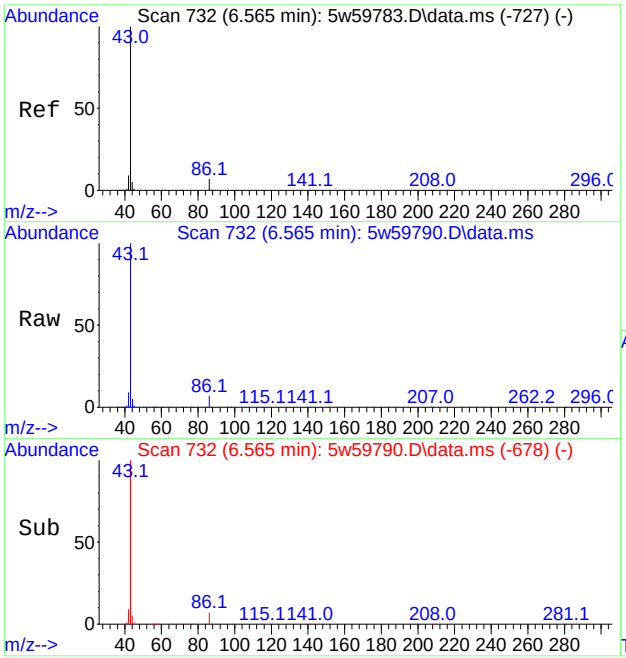


#38
HEXANE
Concen: 10.24 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 814752

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	104.6	74.7	134.7

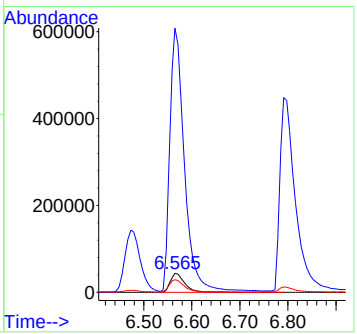


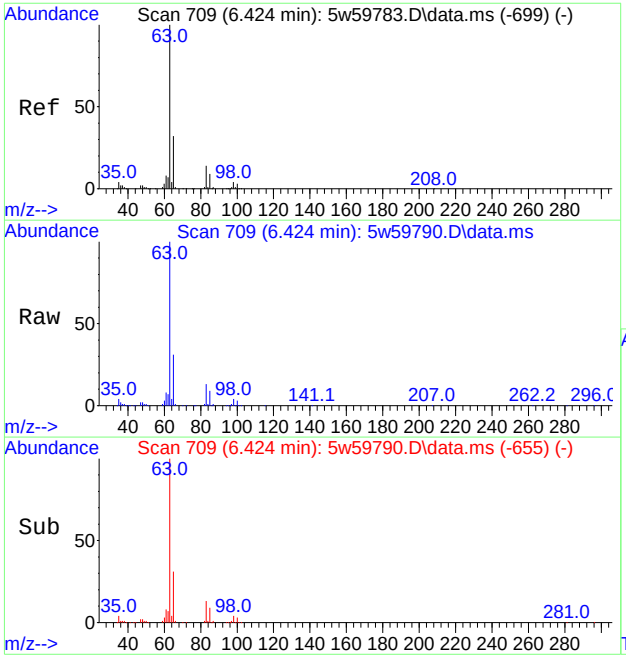


#39
VINYL ACETATE
Concen: 11.55 PPBV
RT: 6.565 min Scan# 732
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 86 Resp: 92915

Ion	Ratio	Lower	Upper
86	100		
43	1372.6	1379.7	1439.7#
44	66.6	36.9	96.9

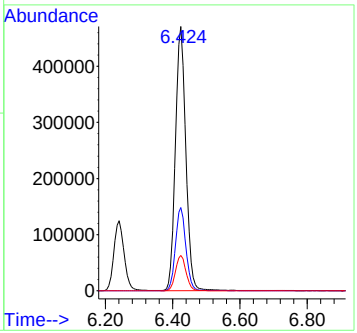


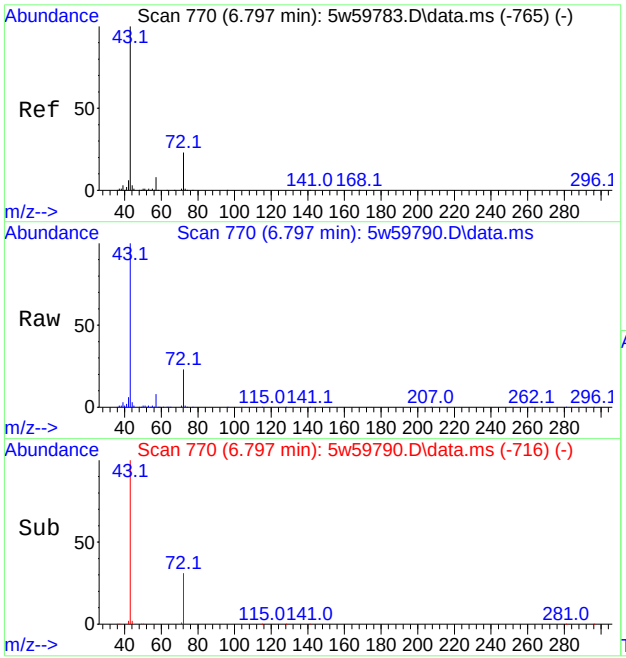


#40
1,1-DICHLOROETHANE
Concen: 9.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 1012856

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.7	61.7
83	13.5	0.0	43.5

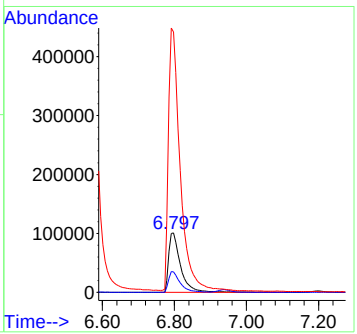


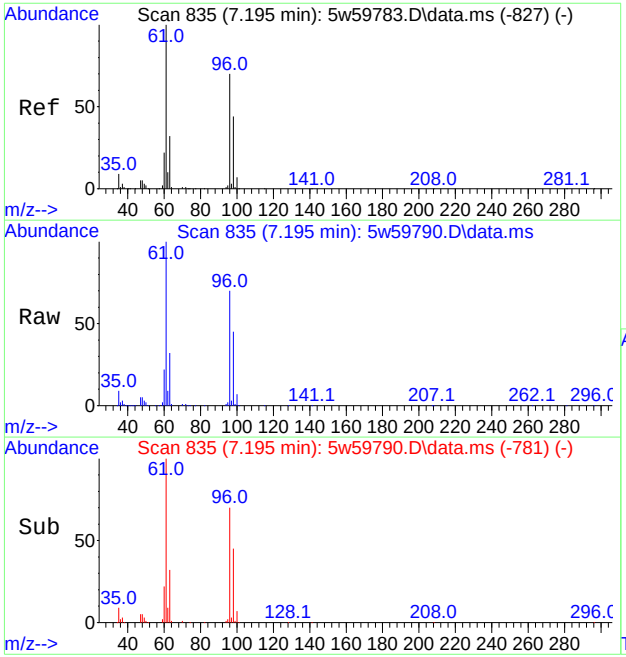


#41
METHYL ETHYL KETONE
Concen: 12.04 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 231727

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	438.5	415.9	475.9

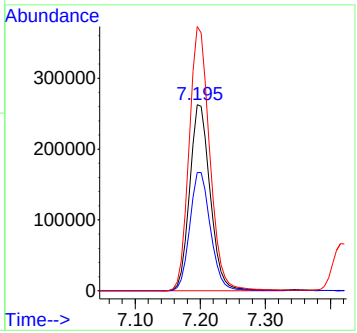


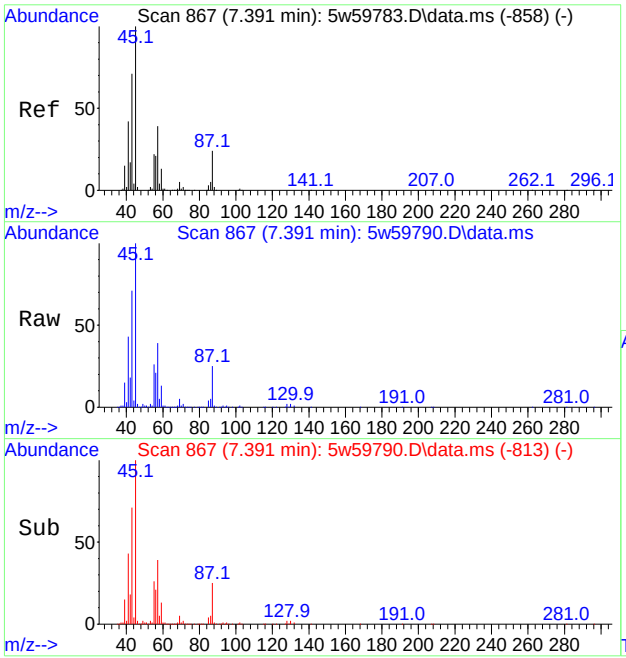


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.43 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 576053

Ion	Ratio	Lower	Upper
96	100		
98	64.4	34.0	94.0
61	142.6	111.5	171.5

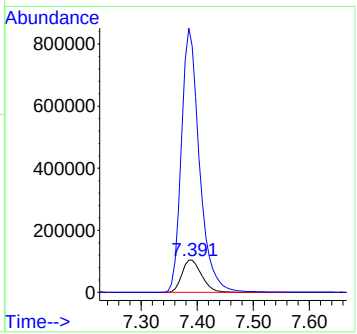


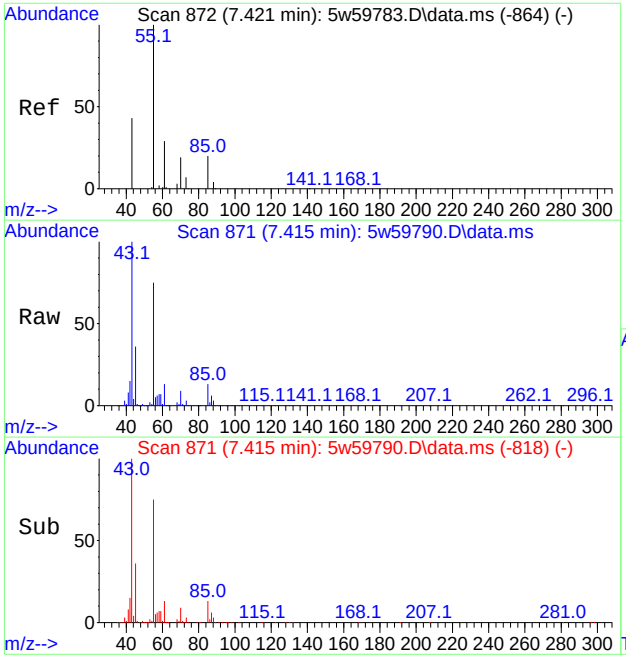


#43
DIISOPROPYL ETHER
Concen: 12.23 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 255743

Ion	Ratio	Lower	Upper
59	100		
45	748.7	720.9	780.9

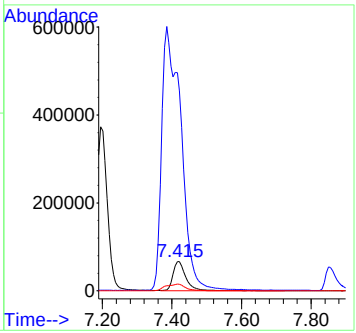


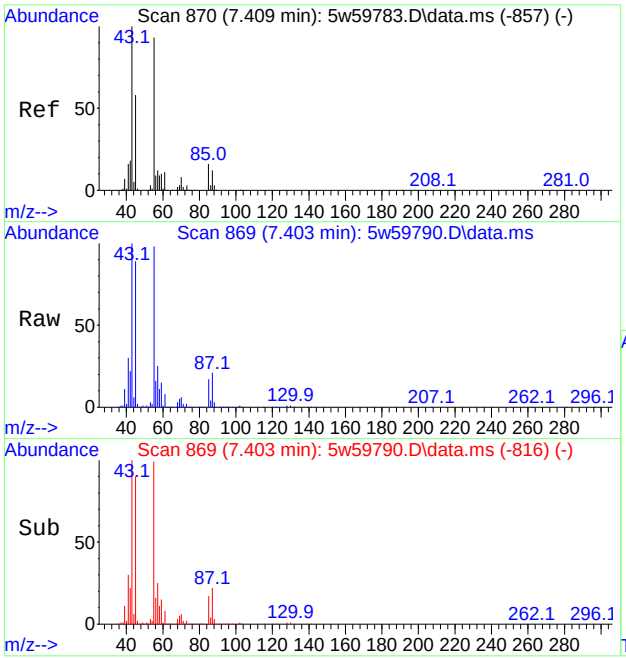


#44
ETHYL ACETATE
Concen: 11.56 PPBV
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 61 Resp: 170036

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	35.7	4.5	64.5

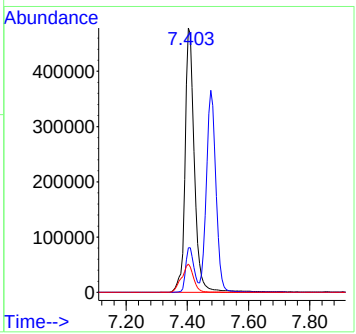


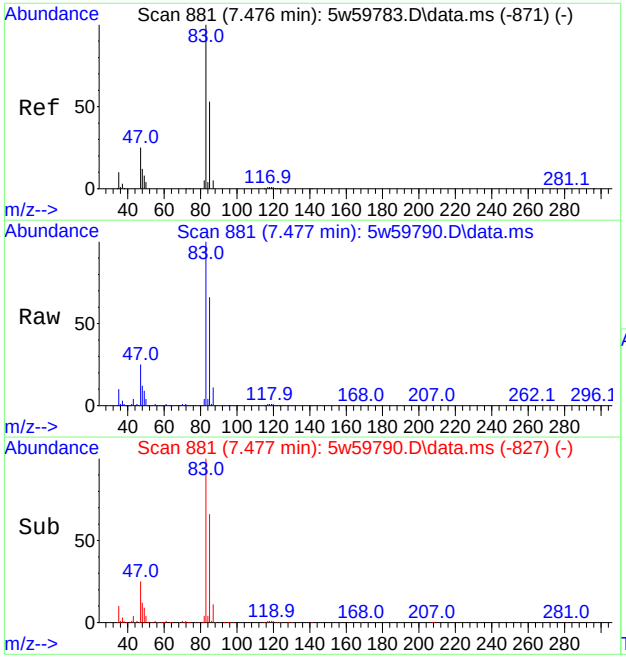


#45
METHYL ACRYLATE
Concen: 12.95 PPBV
RT: 7.403 min Scan# 869
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1019941

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.7	9.4	17.6

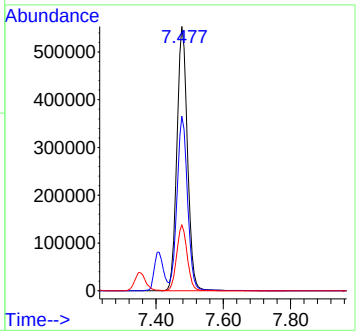


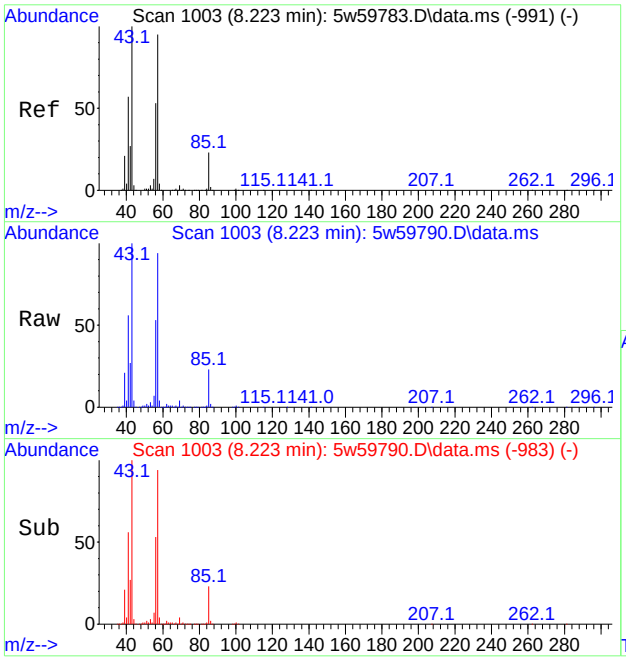


#46
CHLOROFORM
Concen: 10.89 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1206541

Ion	Ratio	Lower	Upper
83	100		
85	65.8	35.6	95.6
47	24.9	0.0	55.2

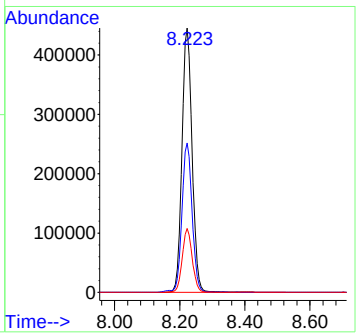


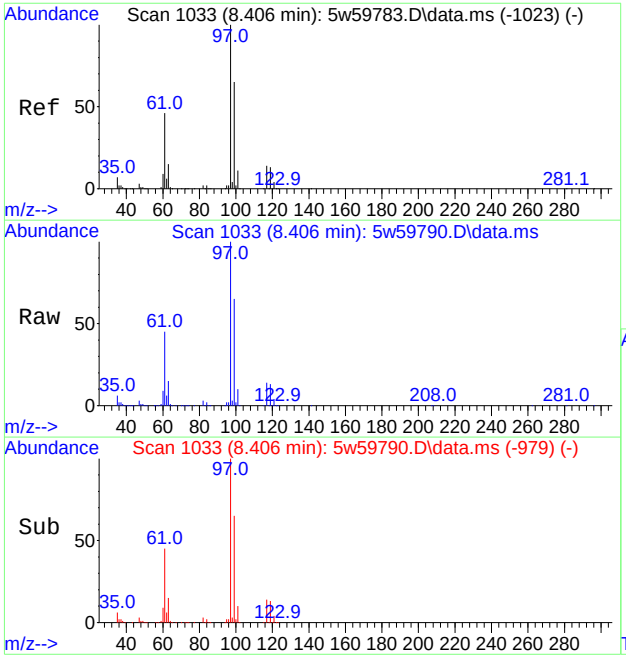


#47
2,4-DIMETHYLPENTANE
Concen: 10.74 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 967097

Ion	Ratio	Lower	Upper
57	100		
56	57.2	26.5	86.5
85	23.9	0.0	53.8

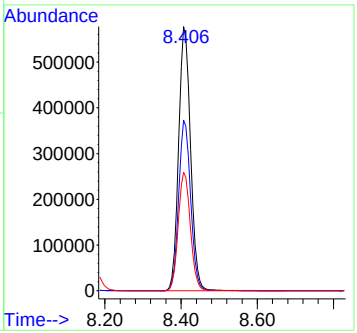


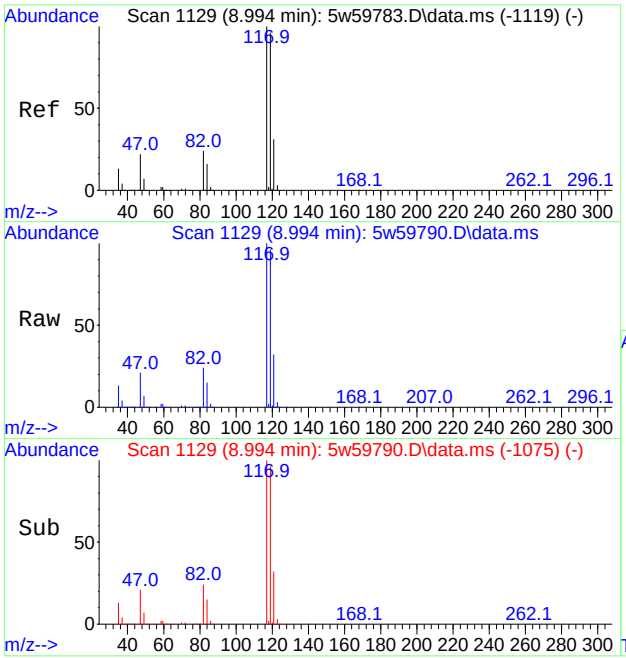


#48
1,1,1-TRICHLOROETHANE
Concen: 10.90 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 97 Resp: 1259183

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.8	94.8
61	45.8	15.8	75.8

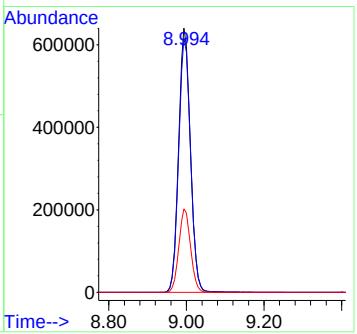


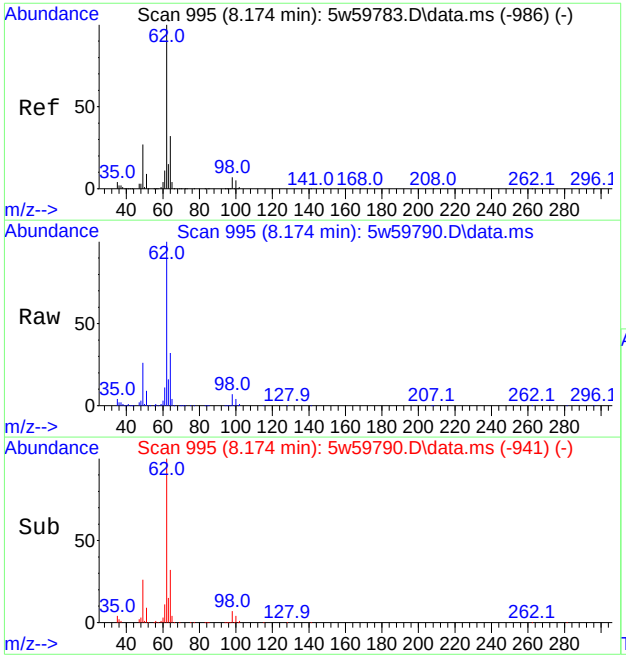


#49
CARBON TETRACHLORIDE
Concen: 10.85 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1361951

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.3	1.3	61.3

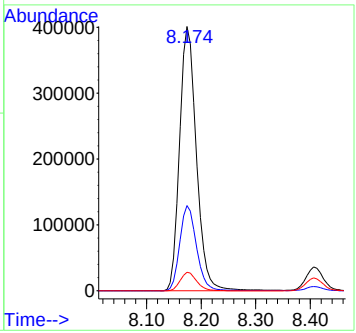


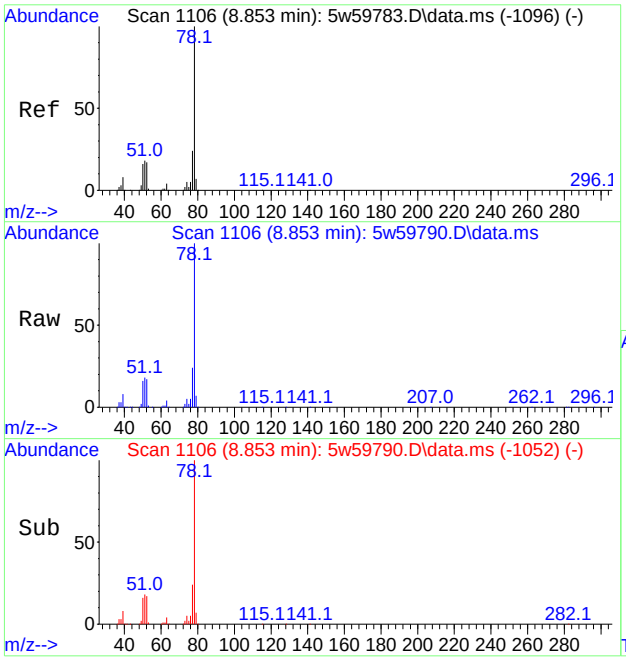


#50
1,2-DICHLOROETHANE
Concen: 11.15 PPBV
RT: 8.174 min Scan# 995
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 857881

Ion	Ratio	Lower	Upper
62	100		
64	32.2	2.3	62.3
98	6.9	0.0	36.9

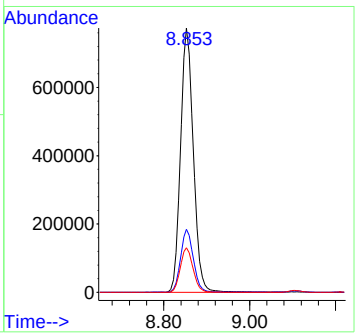


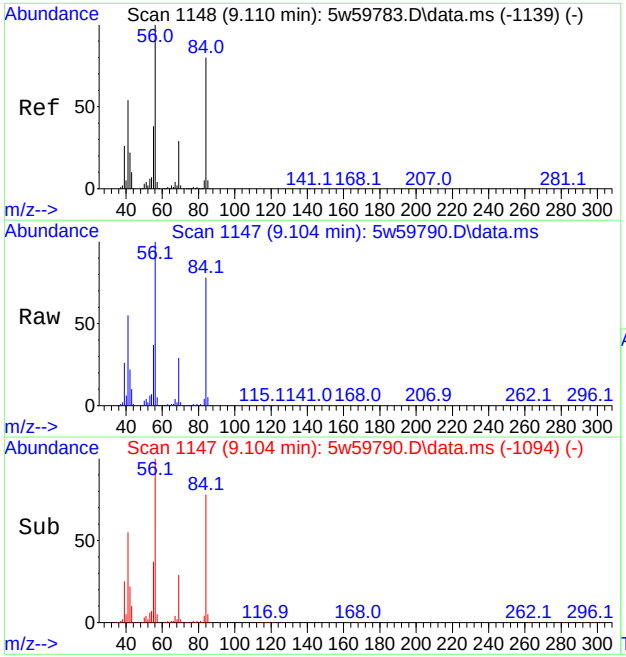


#52
BENZENE
Concen: 11.05 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 78 Resp: 1601042

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

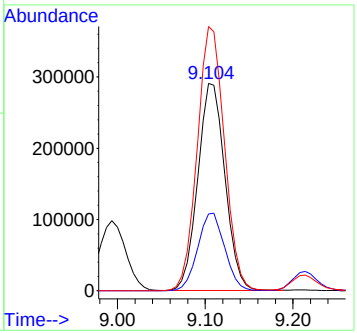


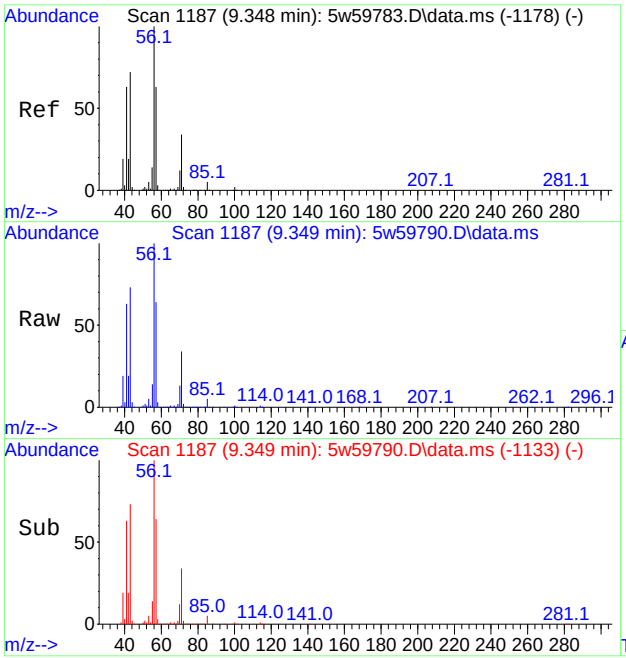


#53
CYCLOHEXANE
Concen: 10.78 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 624324

Ion	Ratio	Lower	Upper
84	100		
69	37.5	6.9	66.9
56	128.3	98.2	158.2

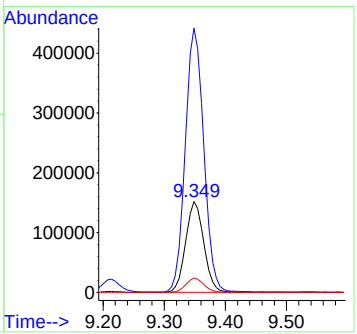


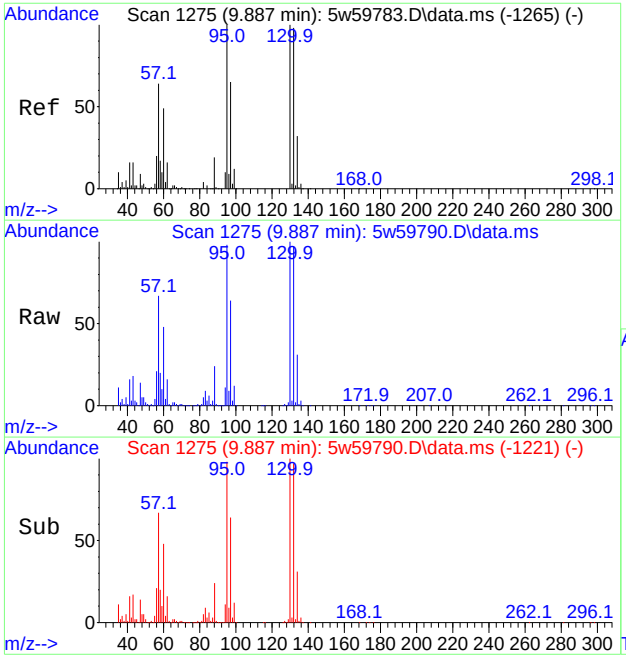


#54
2,3-DIMETHYLPENTANE
Concen: 10.75 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 71 Resp: 314676

Ion	Ratio	Lower	Upper
71	100		
56	298.0	264.6	324.6
85	15.5	0.0	45.3

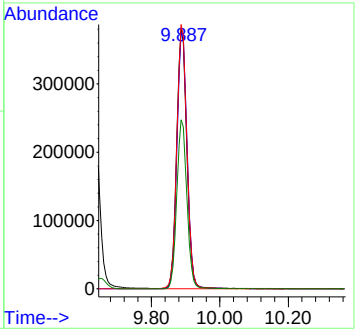


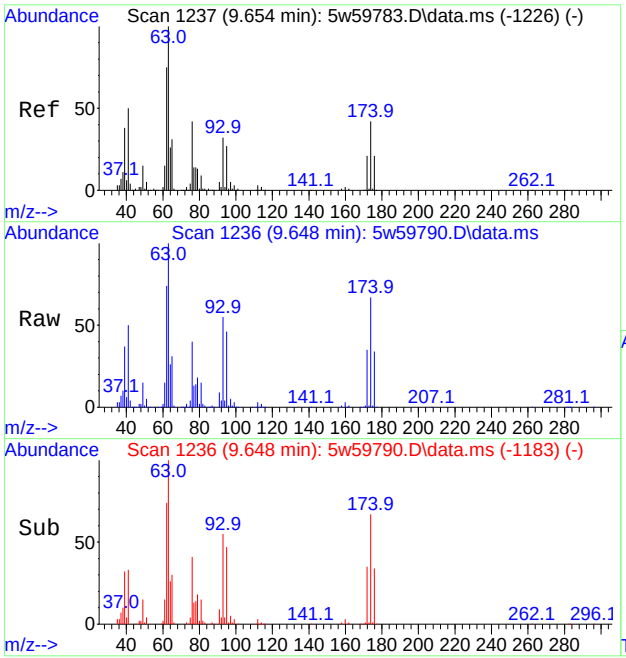


#55
TRICHLOROETHYLENE
Concen: 10.60 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 95 Resp: 782511

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.7	70.6	130.6
97	65.0	34.6	94.6

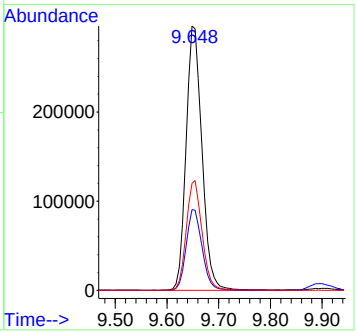


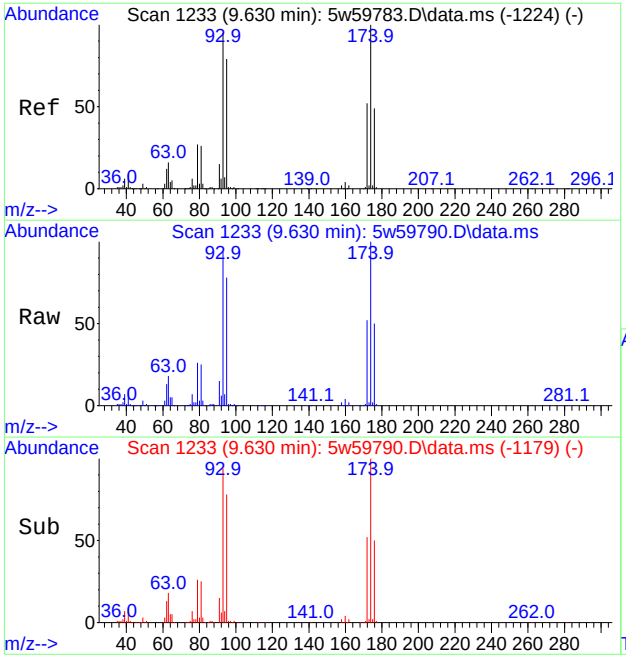


#56
1,2-DICHLOROPROPANE
Concen: 9.43 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 634380

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.1	11.5	71.5

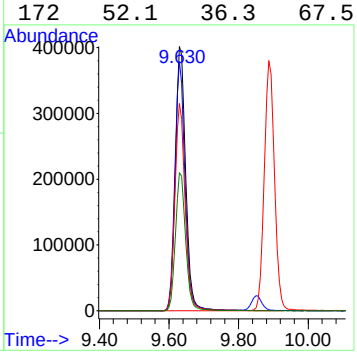


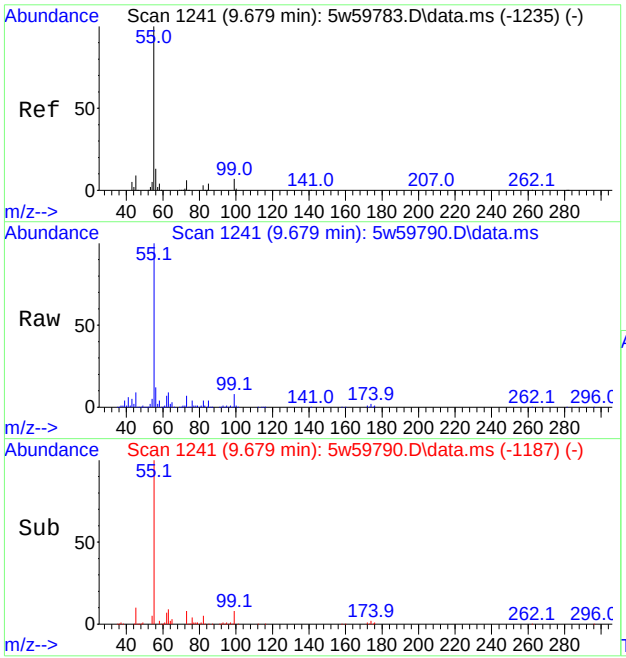


#57
DIBROMOMETHANE
Concen: 10.02 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:174 Resp: 826704

Ion	Ratio	Lower	Upper
174	100		
93	93.2	65.0	120.6
95	78.3	54.5	101.1
172	52.1	36.3	67.5

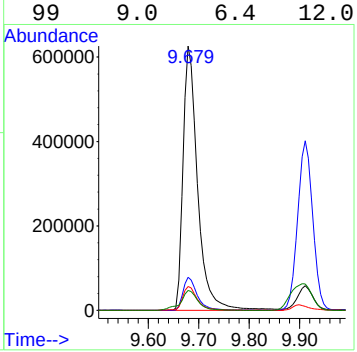


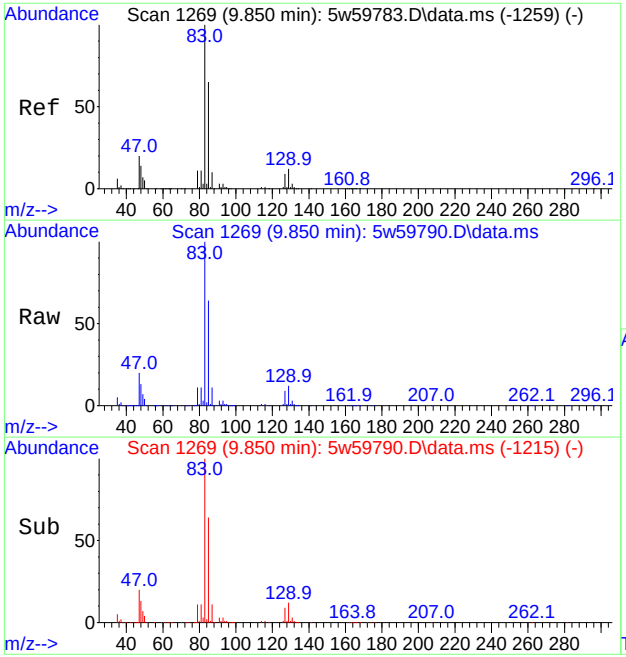


#58
ETHYL ACRYLATE
Concen: 11.98 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1259813

Ion	Ratio	Lower	Upper
55	100		
56	12.4	8.6	16.0
45	9.4	6.6	12.2
99	9.0	6.4	12.0

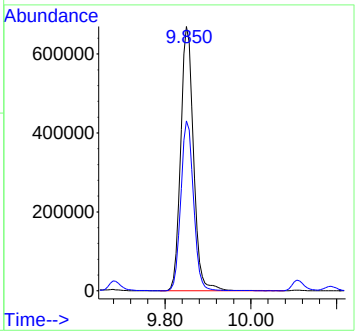


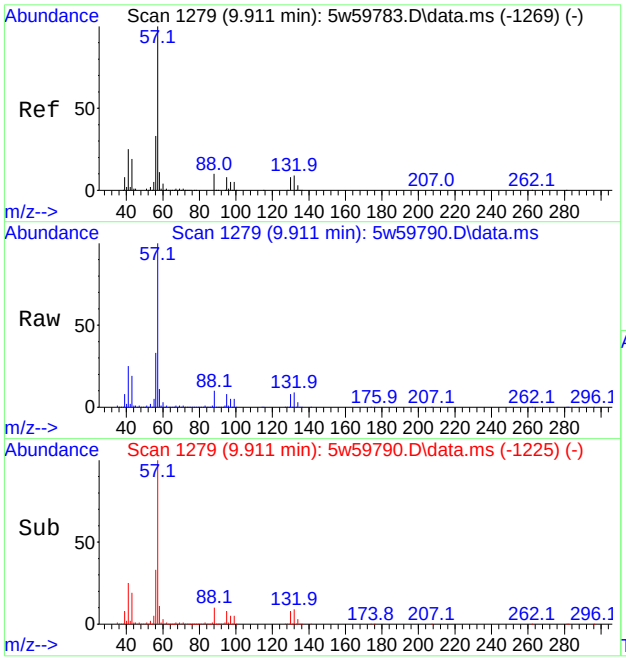


#59
BROMODICHLOROMETHANE
Concen: 10.86 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1390089

Ion	Ratio	Lower	Upper
83	100		
85	63.5	33.4	93.4

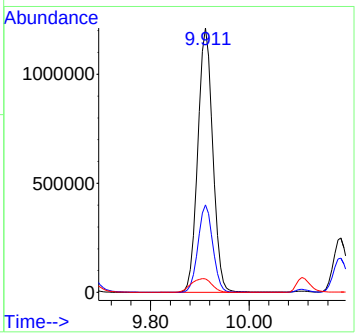


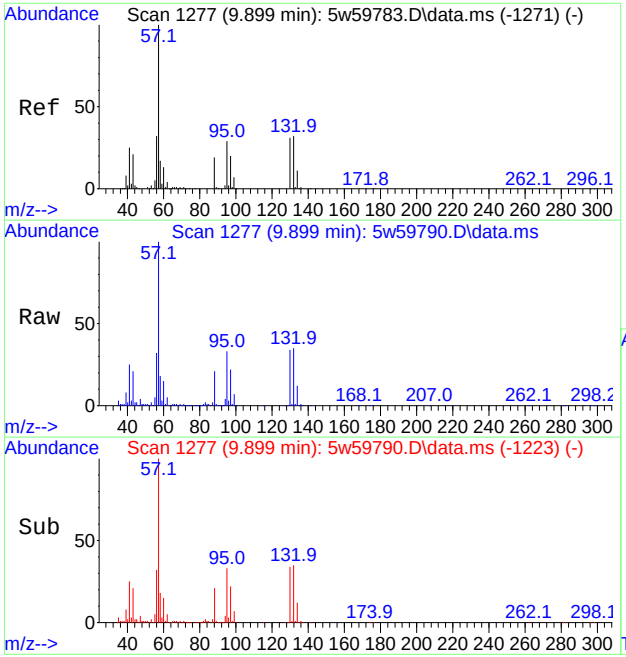


#60
2,2,4-TRIMETHYLPENTANE
Concen: 11.14 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 2555629

Ion	Ratio	Lower	Upper
57	100		
56	32.6	2.5	62.5
99	7.3	0.0	37.3

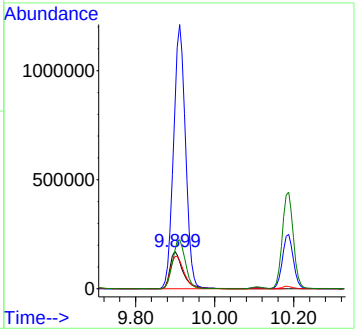


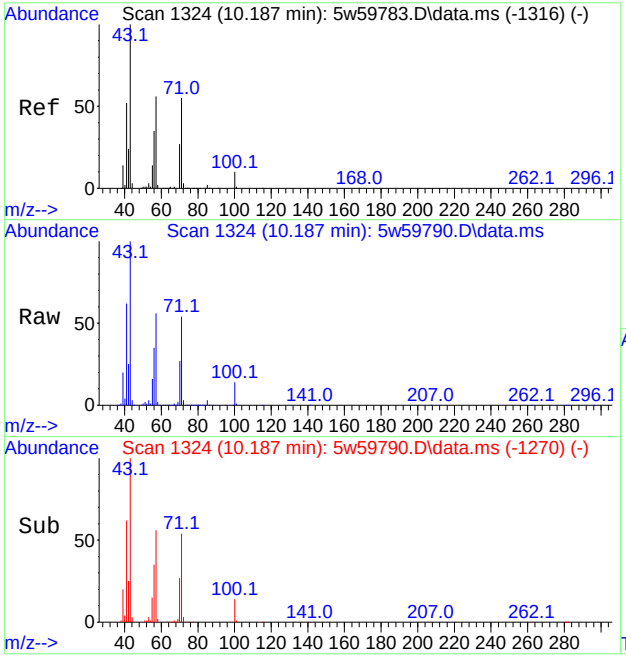


#61
1,4-DIOXANE
Concen: 11.81 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 88 Resp: 390530

Ion	Ratio	Lower	Upper
88	100		
57	486.3	494.2	554.2#
58	86.9	58.9	118.9
43	103.0	78.3	138.3

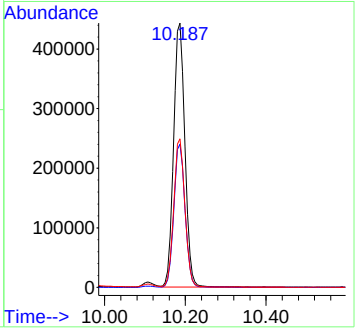


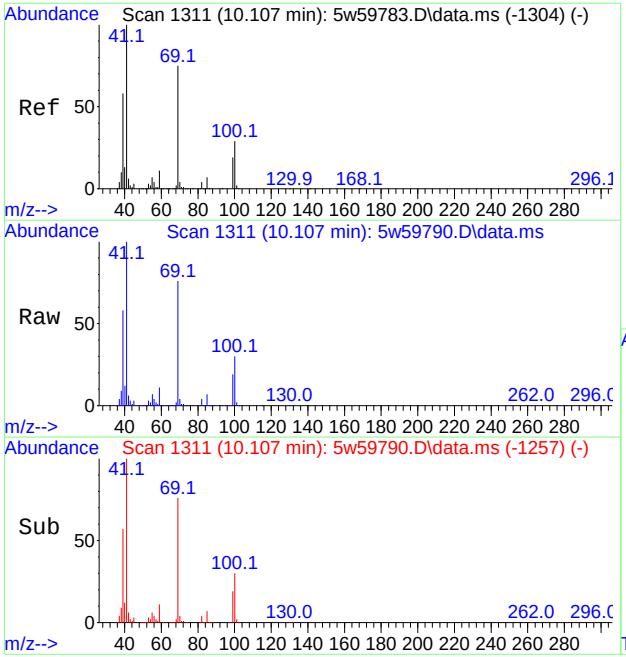


#62
HEPTANE
Concen: 10.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 861635

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.1	26.2	86.2

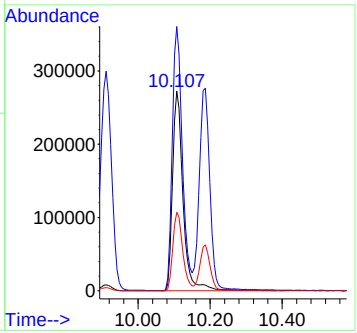


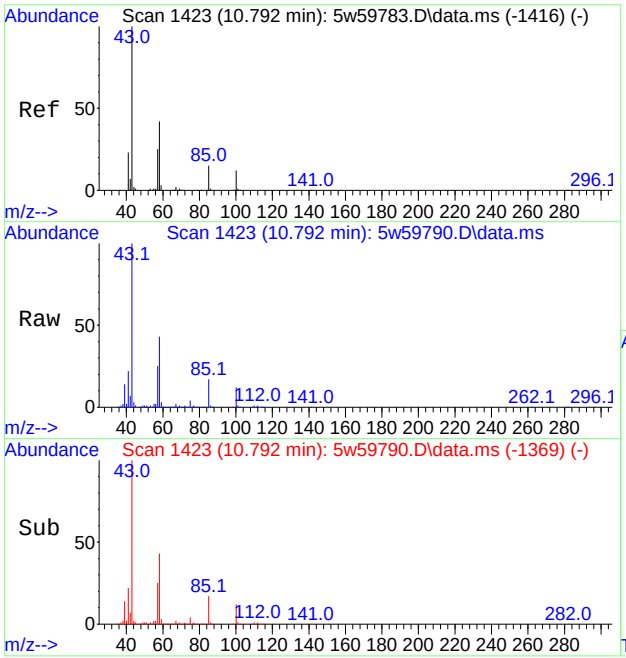


#63
METHYL METHACRYLATE
Concen: 11.70 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 552495

Ion	Ratio	Lower	Upper
69	100		
41	125.2	95.3	155.3
100	36.8	6.3	66.3

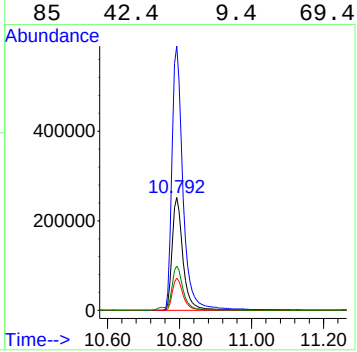


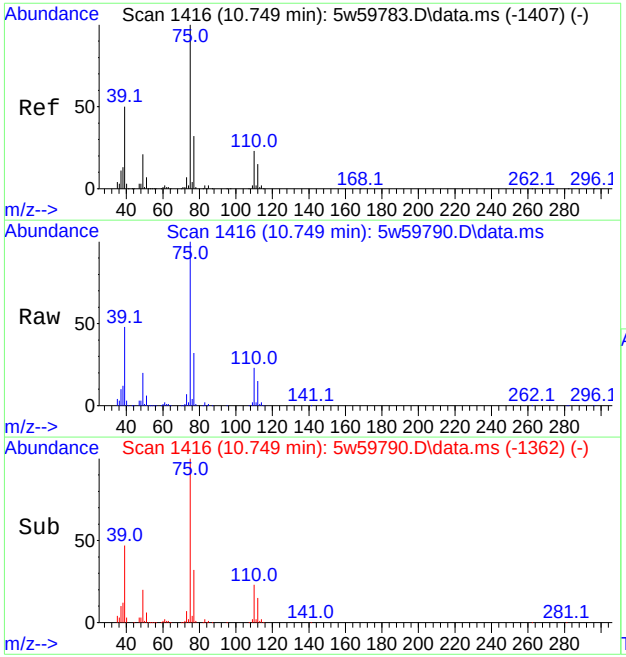


#64
METHYL ISOBUTYL KETONE
Concen: 12.46 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 532725

Ion	Ratio	Lower	Upper
58	100		
43	237.9	209.2	269.2
100	28.7	0.0	58.8
85	42.4	9.4	69.4

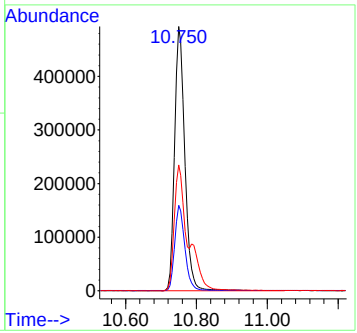


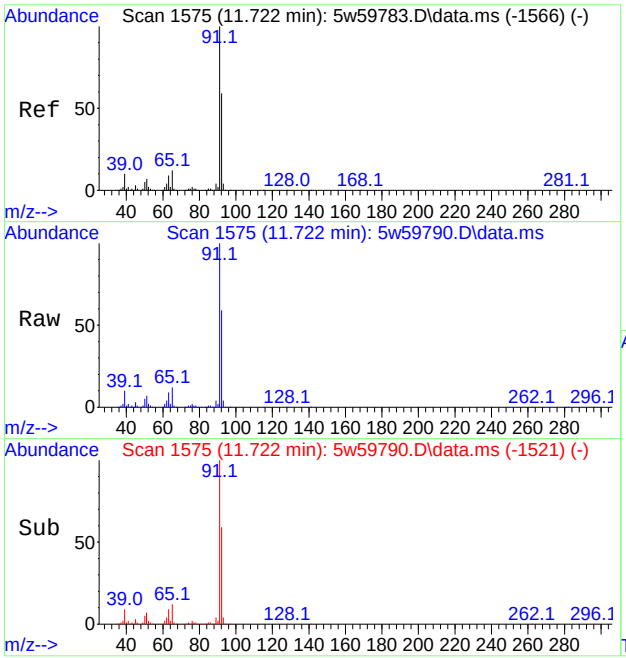


#65
cis-1,3-DICHLOROPROPENE
Concen: 9.61 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 990327

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.0	34.3	94.3

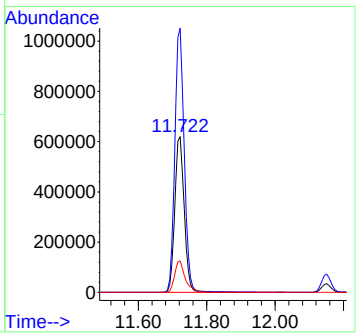


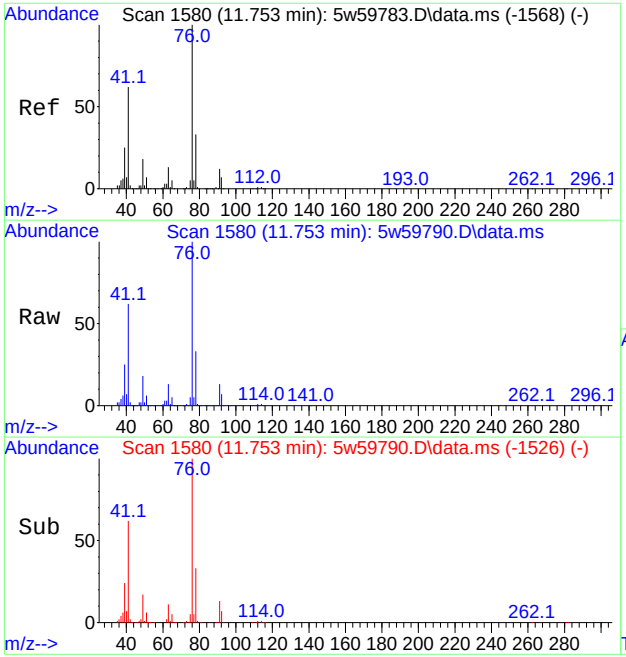


#66
TOLUENE
Concen: 11.05 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 92 Resp: 1196655

Ion	Ratio	Lower	Upper
92	100		
91	169.3	140.1	200.1
65	22.9	0.0	53.1

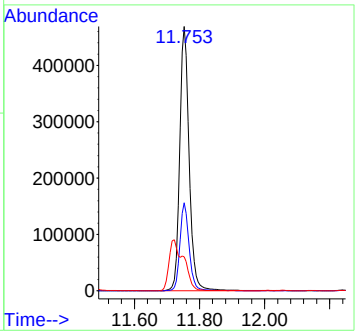


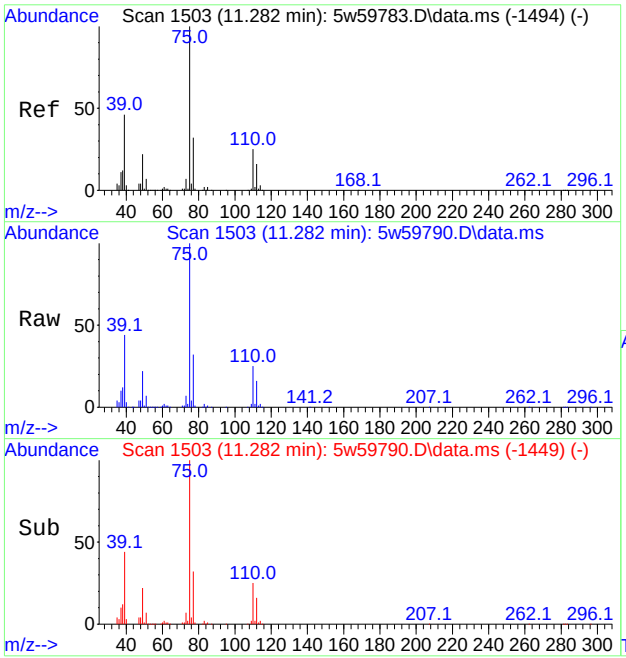


#67
1,3-DICHLOROPROPANE
Concen: 10.77 PPBV
RT: 11.753 min Scan# 1580
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 950675

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	0.0	7.1	13.1#

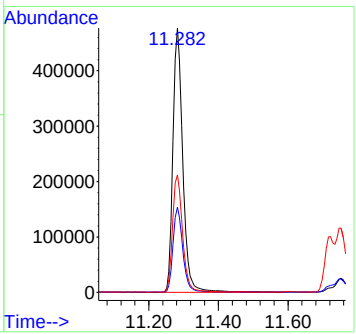


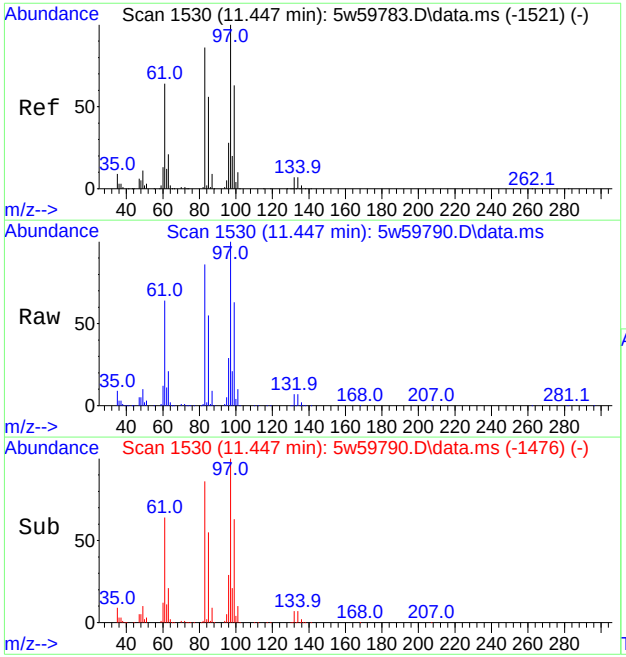


#68
trans-1,3-DICHLOROPROPENE
Concen: 9.66 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 940495

Ion	Ratio	Lower	Upper
75	100		
77	32.2	1.6	61.6
39	45.6	16.1	76.1

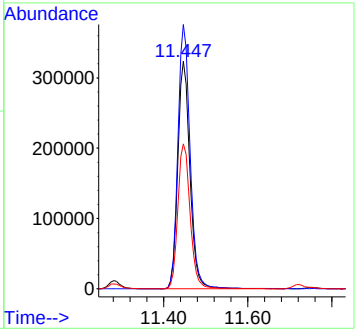


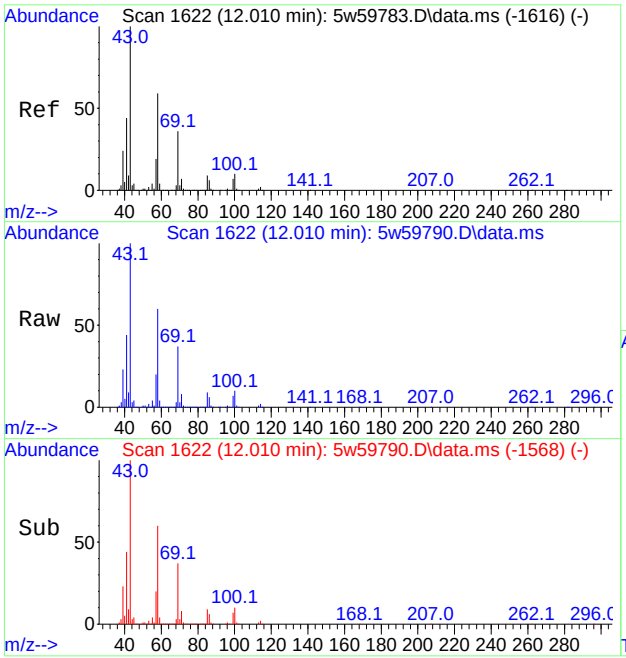


#69
1,1,2-TRICHLOROETHANE
Concen: 10.99 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 646298

Ion	Ratio	Lower	Upper
83	100		
97	116.7	86.3	146.3
85	64.9	35.3	95.3

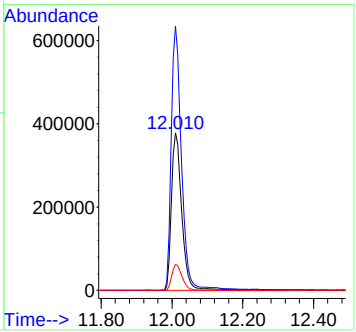


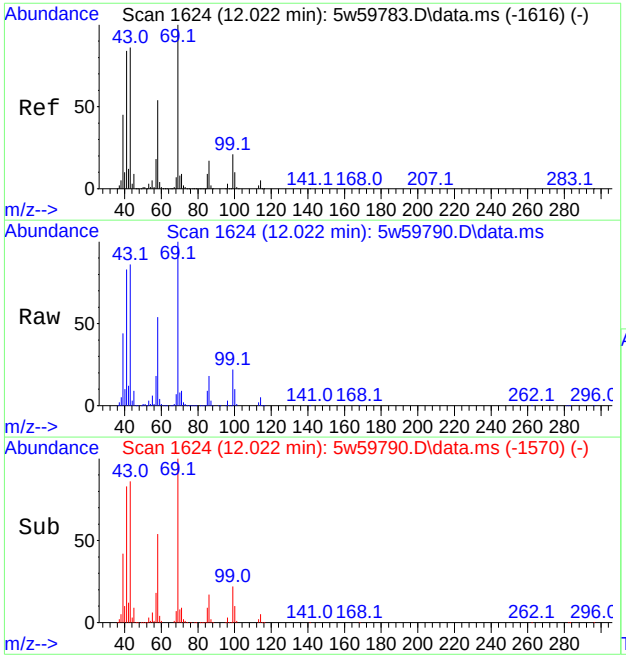


#71
2-HEXANONE
Concen: 12.62 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 770539

Ion	Ratio	Lower	Upper
58	100		
43	166.2	137.2	197.2
100	16.7	0.0	46.9

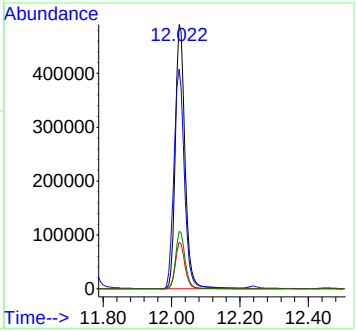


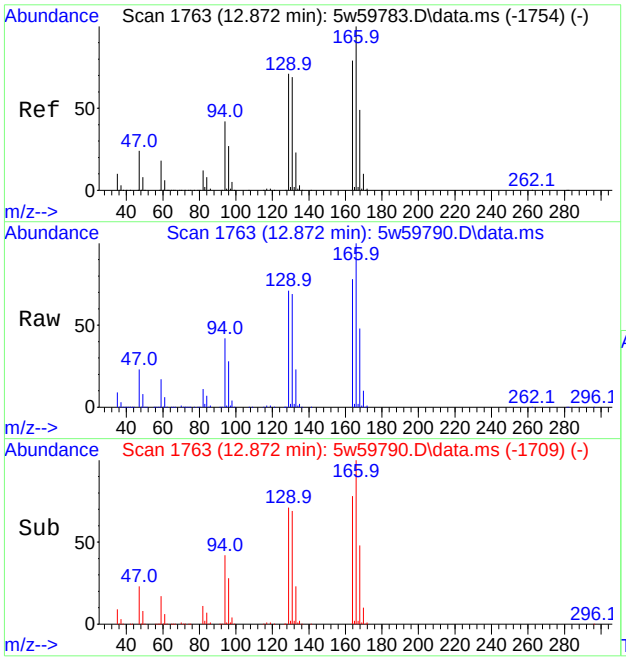


#72
ETHYL METHACRYLATE
Concen: 11.99 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 966723

Ion	Ratio	Lower	Upper
69	100		
41	90.6	64.0	119.0
86	17.3	12.0	22.4
99	21.4	15.0	27.8

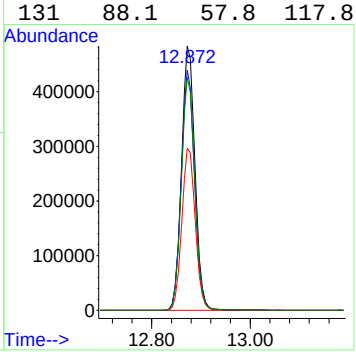


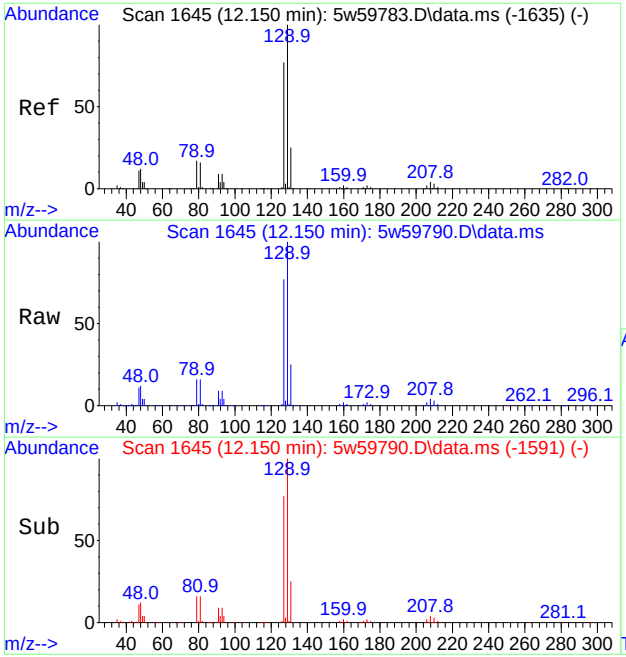


#73
TETRACHLOROETHYLENE
Concen: 11.49 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:164 Resp: 915172

Ion	Ratio	Lower	Upper
164	100		
129	90.3	59.7	119.7
168	62.0	32.2	92.2
131	88.1	57.8	117.8

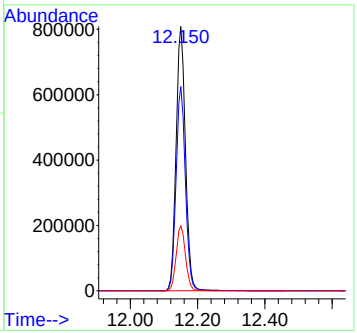


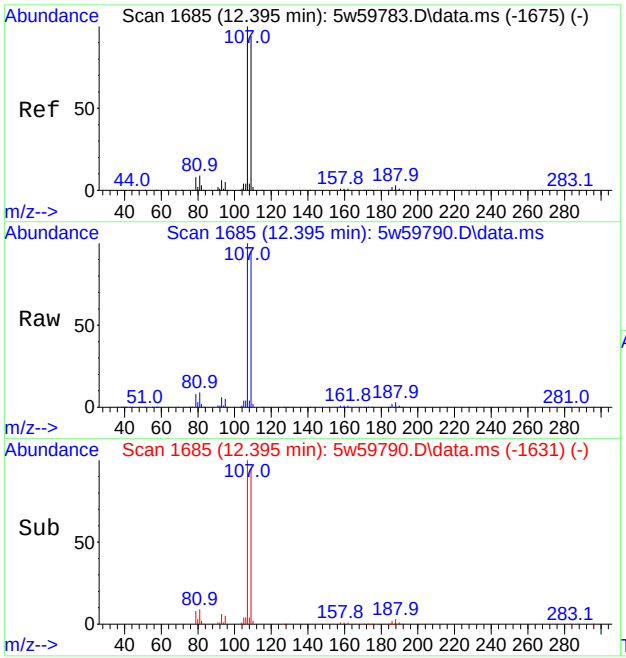


#74
DIBROMOCHLOROMETHANE
Concen: 11.39 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:129 Resp: 1566467

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.7	0.0	54.5

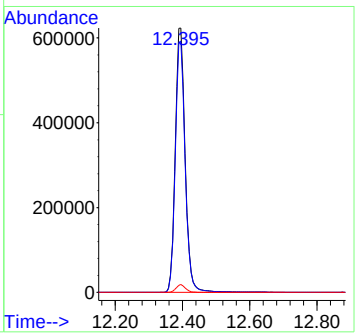


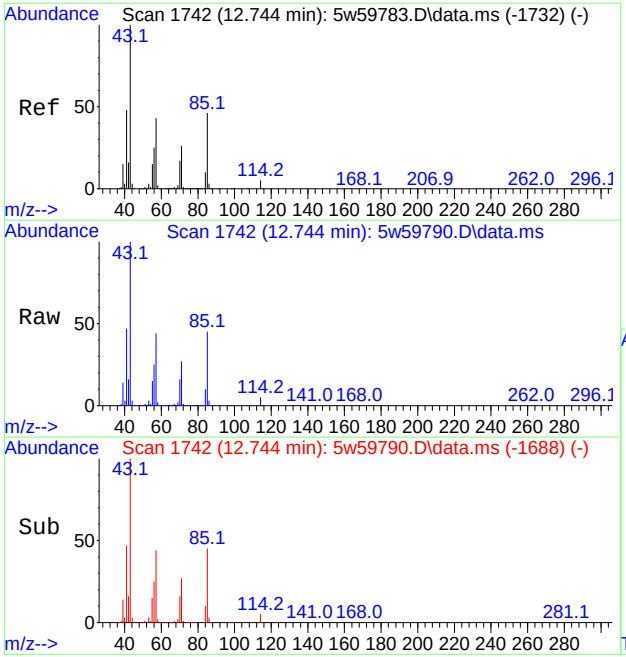


#75
1,2-DIBROMOETHANE
Concen: 11.89 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:107 Resp: 1272221

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	2.8	0.0	32.8

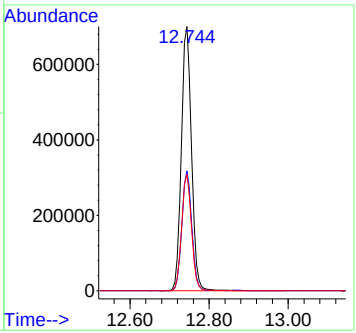


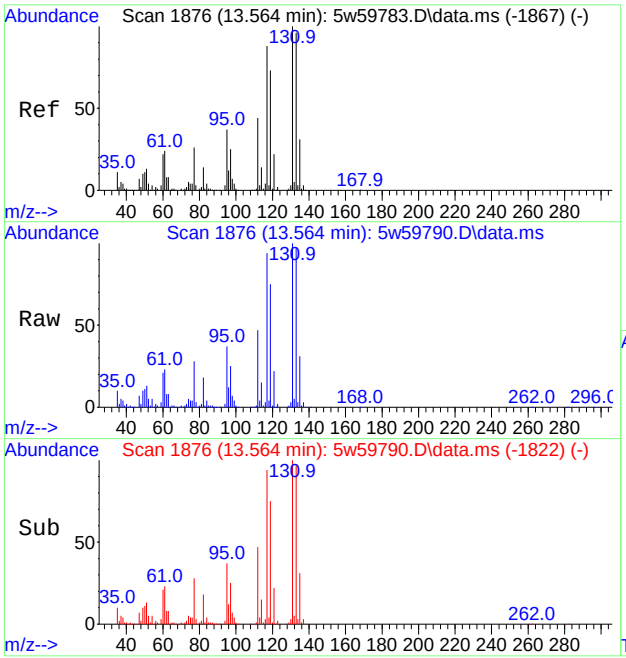


#76
OCTANE
Concen: 11.27 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1249572

Ion	Ratio	Lower	Upper
43	100		
85	44.7	14.6	74.6
57	43.4	13.7	73.7

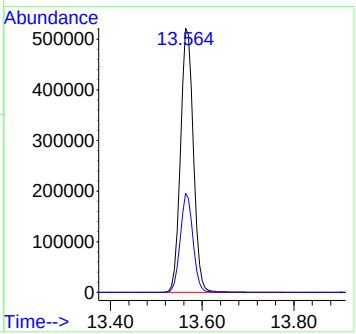


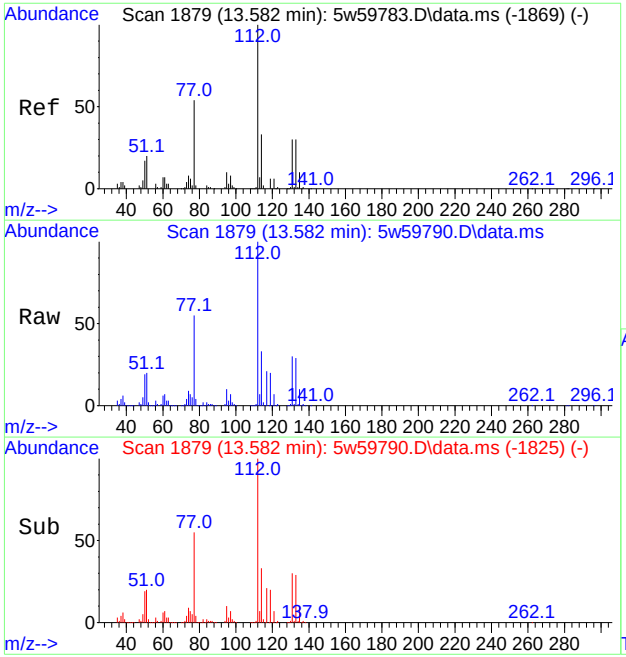


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 11.62 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:131 Resp: 1017442

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

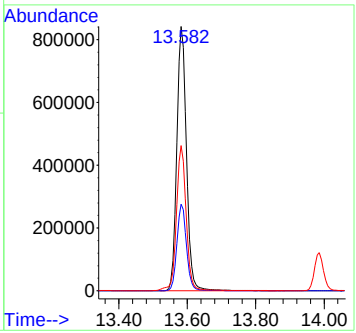


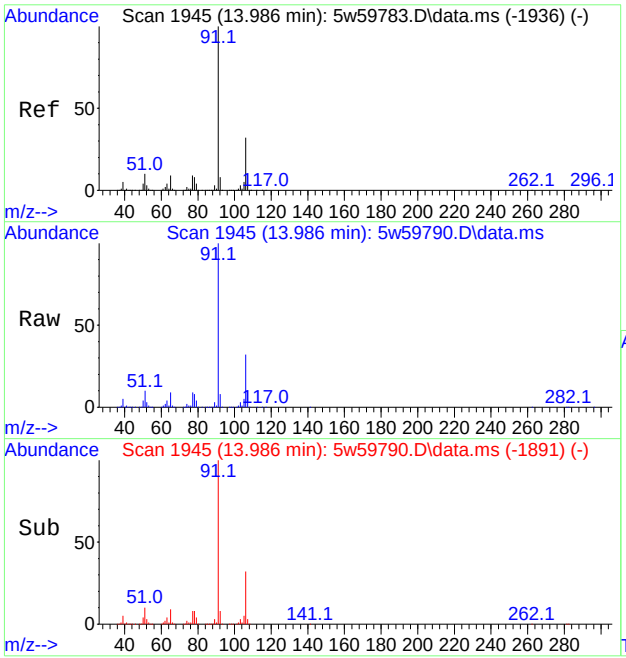


#78
CHLOROBENZENE
Concen: 11.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:112 Resp: 1647850

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.5	25.4	85.4

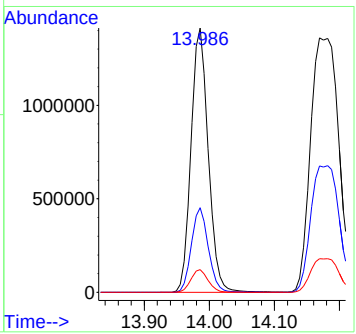


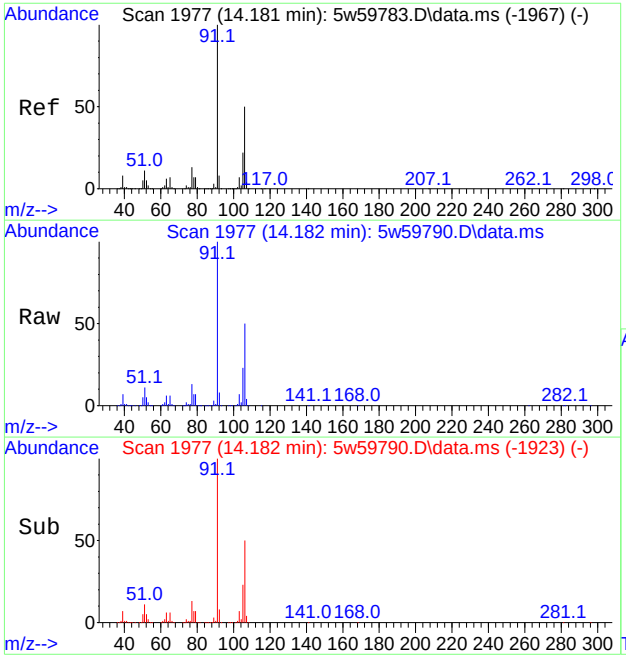


#79
ETHYLBENZENE
Concen: 11.61 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2597260

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.3	61.3
77	8.6	0.0	38.6

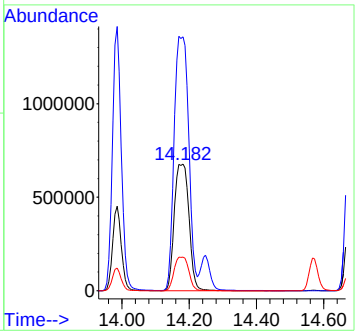


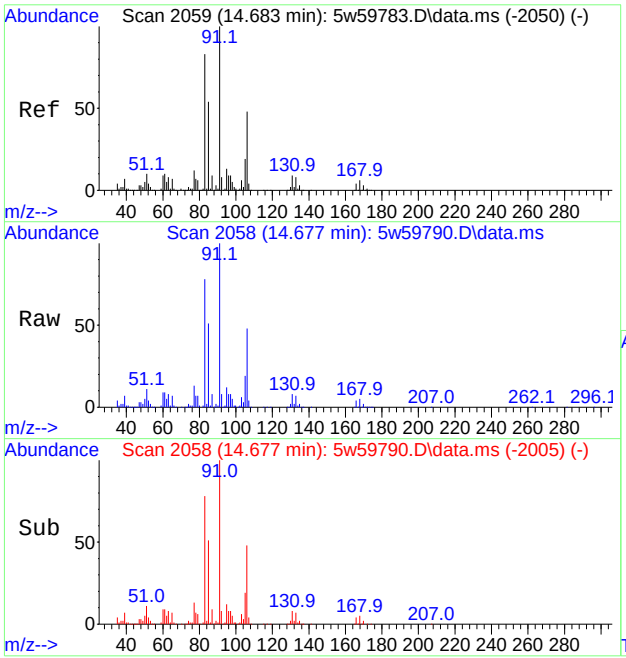


#80
m,p-XYLENE
Concen: 23.24 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 2050019

Ion	Ratio	Lower	Upper
106	100		
91	200.2	171.0	231.0
77	26.6	0.0	56.7

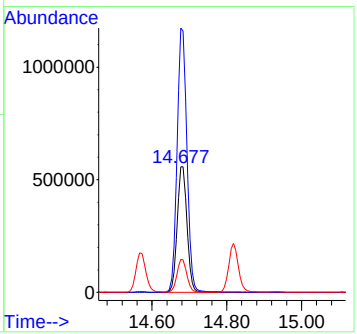


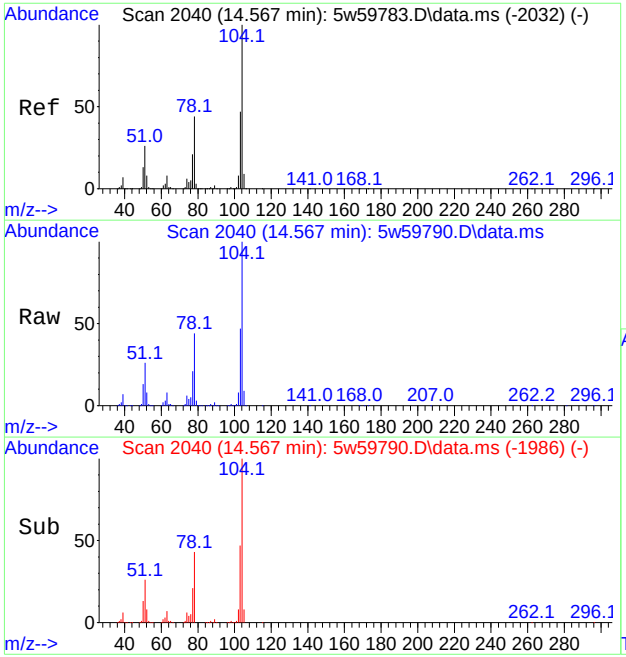


#81
o-XYLENE
Concen: 12.30 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 1016013

Ion	Ratio	Lower	Upper
106	100		
91	209.6	181.6	241.6
77	26.2	0.0	56.6

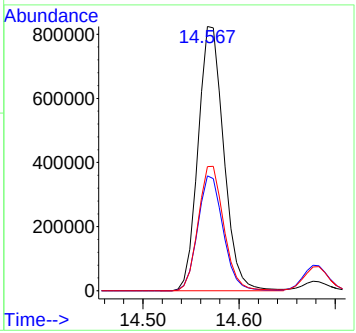


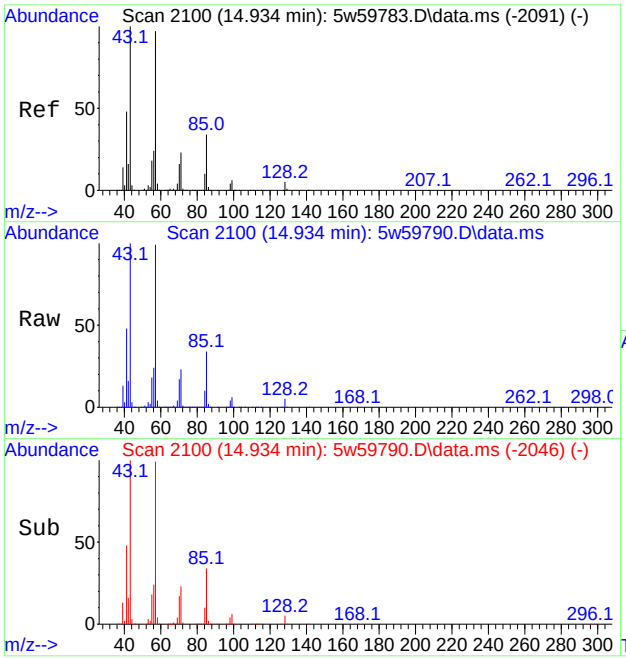


#82
STYRENE
Concen: 11.88 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:104 Resp: 1531560

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.1	17.2	77.2

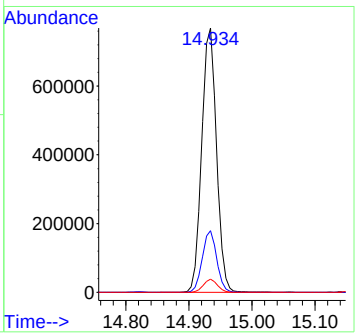


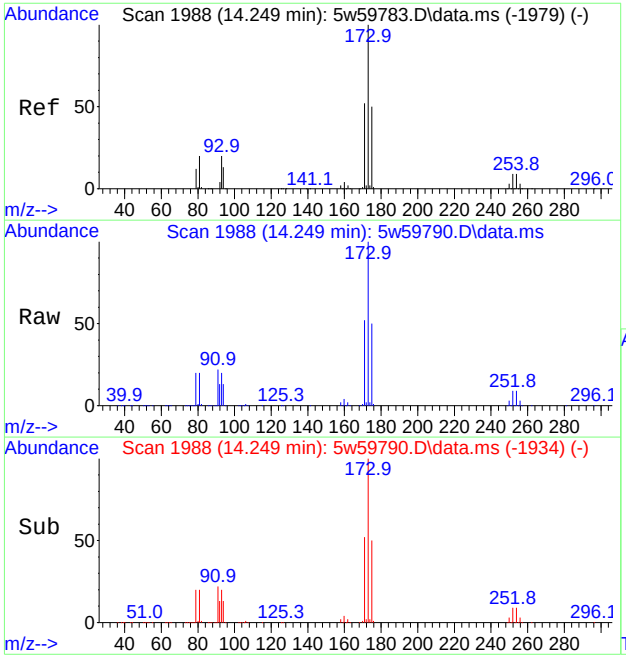


#83
NONANE
Concen: 11.11 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1246325

Ion	Ratio	Lower	Upper
43	100		
71	22.9	0.0	52.7
128	4.8	0.0	34.7

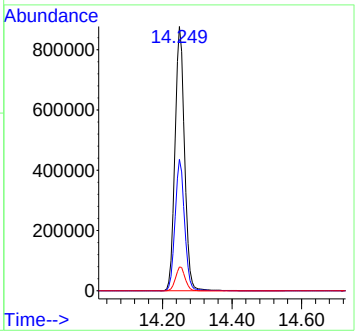


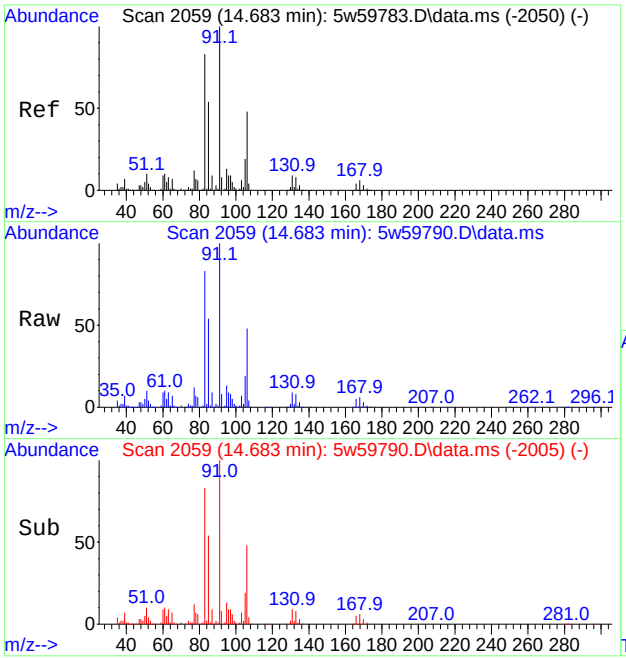


#84
BROMOFORM
Concen: 12.32 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:173 Resp: 1671641

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	9.0	0.0	39.0

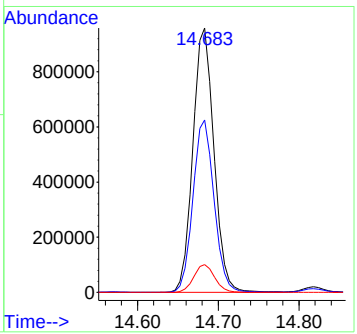


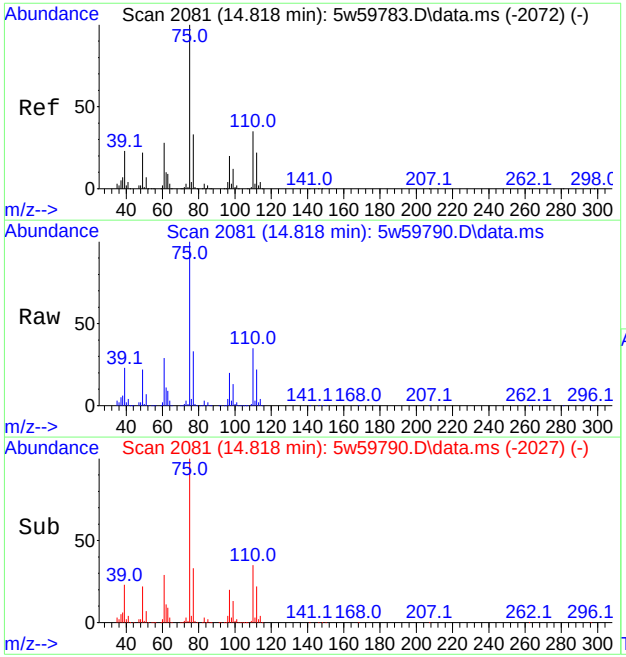


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.14 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1743965

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.2	95.2
131	10.5	0.0	40.3

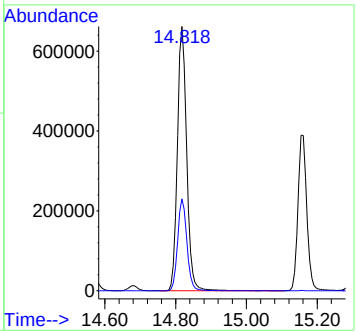


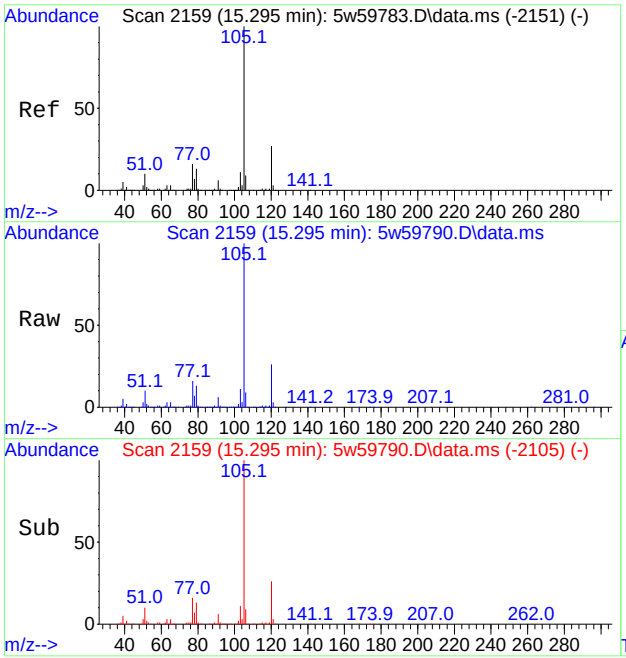


#87
1,2,3-TRICHLOROPROPANE
Concen: 10.42 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 1202955

Ion	Ratio	Lower	Upper
75	100		
110	34.7	4.4	64.4

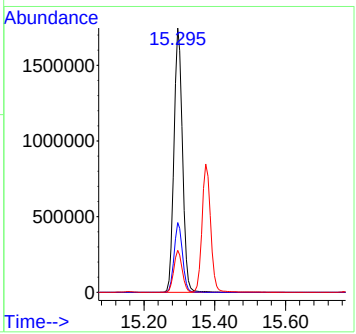


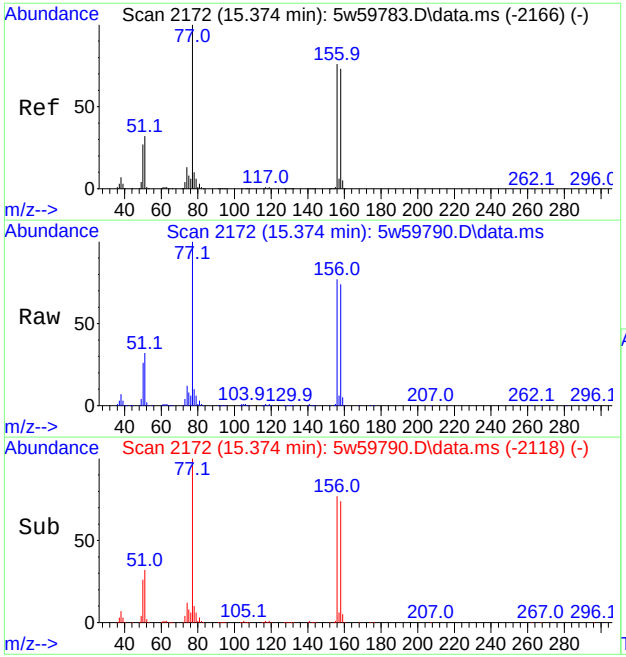


#88
ISOPROPYLBENZENE
Concen: 11.51 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2910298

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

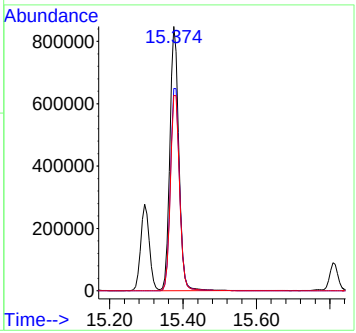


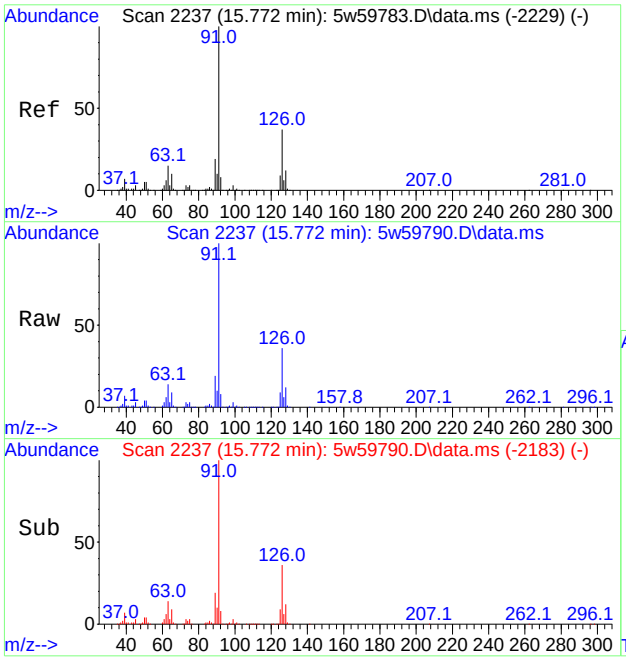


#89
BROMOBENZENE
Concen: 10.87 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 77 Resp: 1429493

Ion	Ratio	Lower	Upper
77	100		
156	78.9	54.9	101.9
158	76.6	53.5	99.3

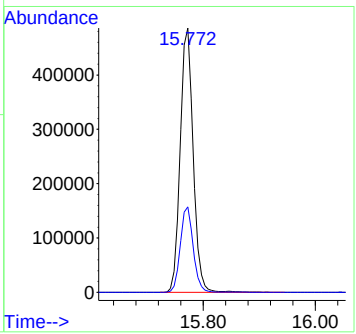


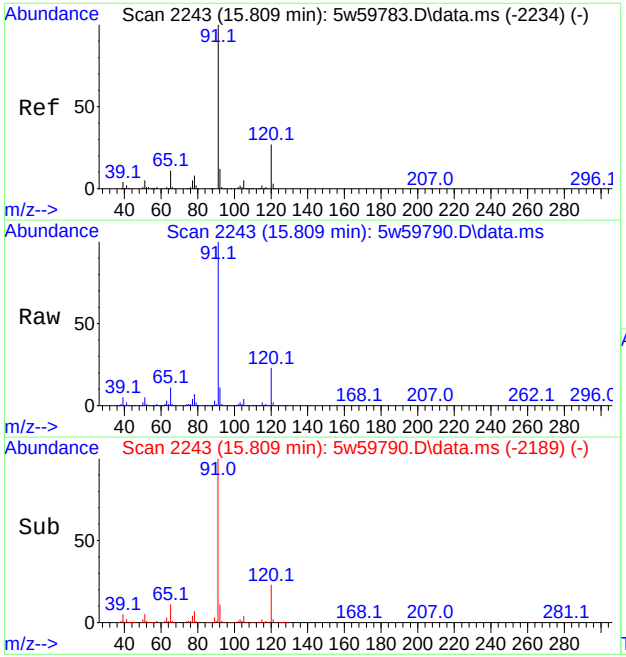


#90
2-CHLOROTOLUENE
Concen: 11.13 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:126 Resp: 779180

Ion	Ratio	Lower	Upper
126	100		
128	32.5	2.7	62.7

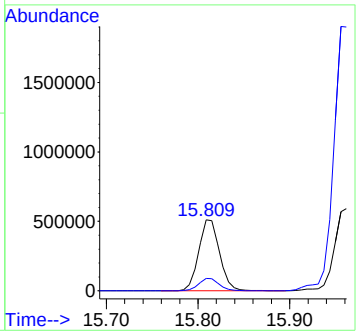


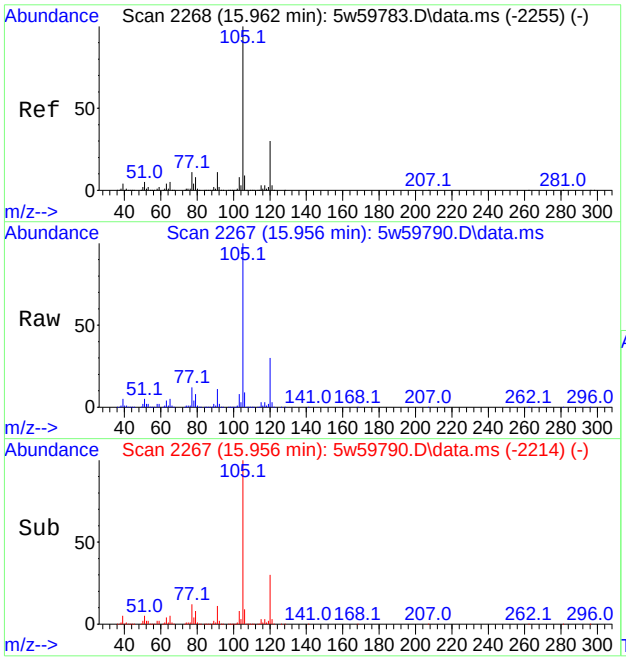


#91
n-PROPYLBENZENE
Concen: 11.92 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:120 Resp: 807953

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

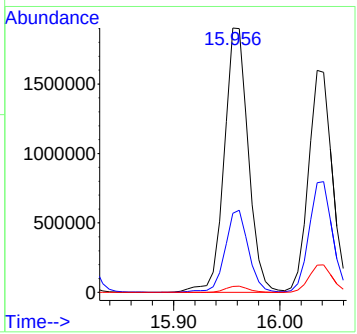


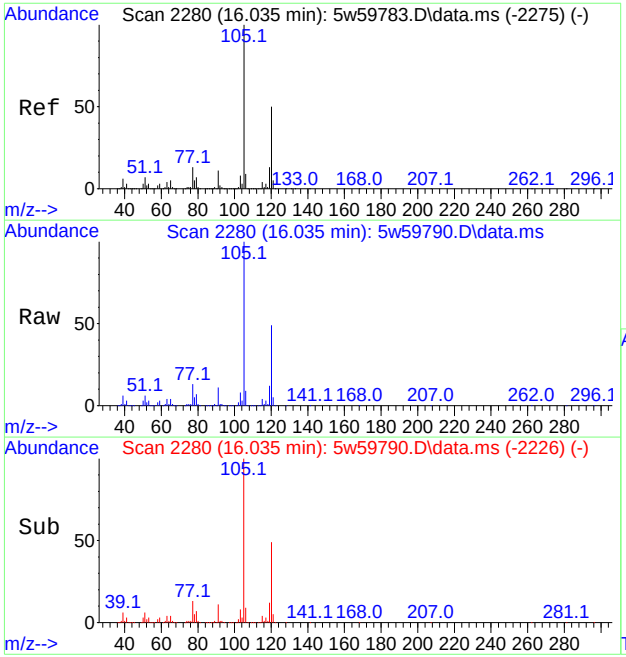


#92
4-ETHYLTOLUENE
Concen: 12.93 PPBV
RT: 15.956 min Scan# 2267
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2990249

Ion	Ratio	Lower	Upper
105	100		
120	30.3	0.0	59.9
119	2.3	0.0	32.3

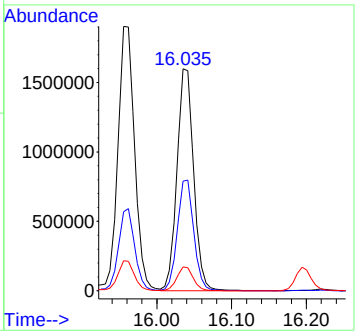


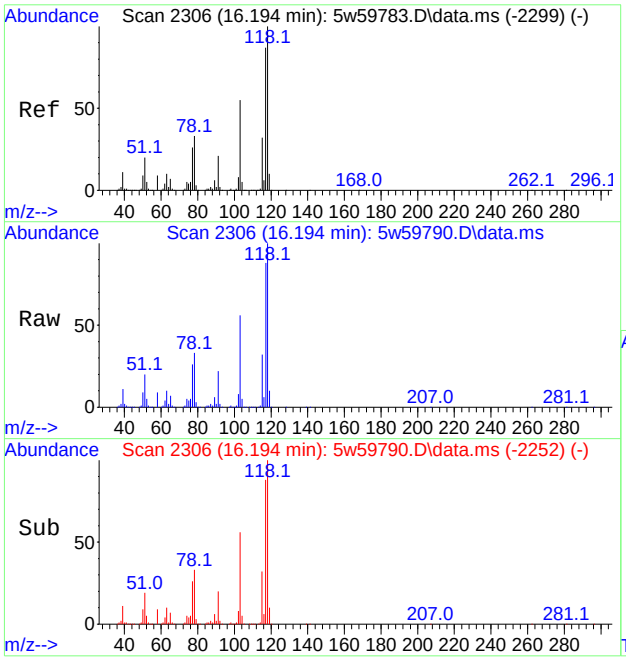


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.54 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2480601

Ion	Ratio	Lower	Upper
105	100		
120	49.3	19.4	79.4
91	10.7	0.0	40.8

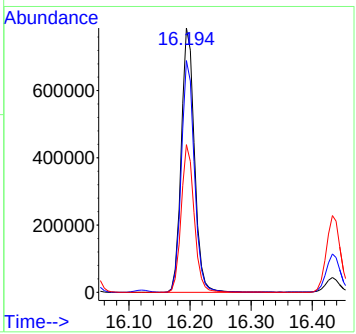


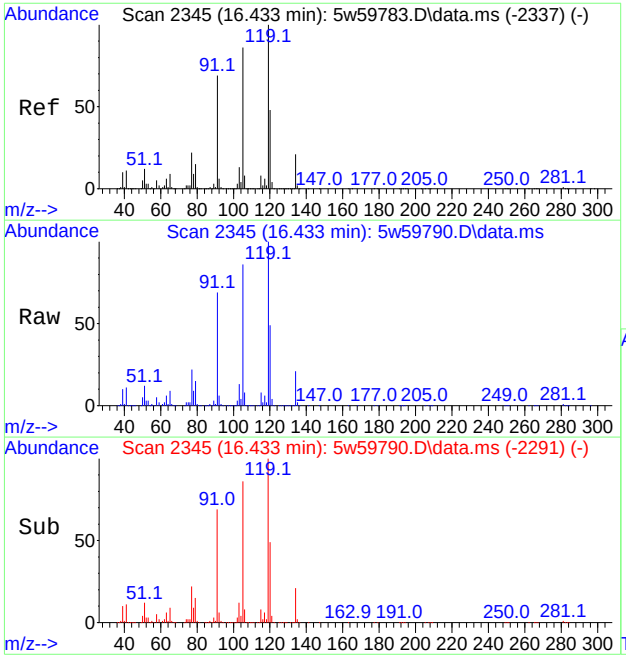


#94
ALPHA-METHYLSTYRENE
Concen: 11.12 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:118 Resp: 1177774

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.4	38.6	71.8

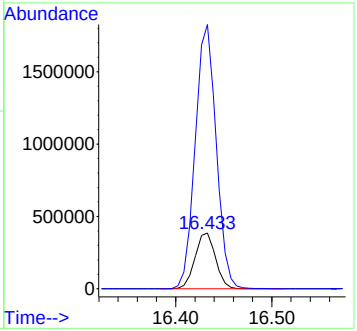


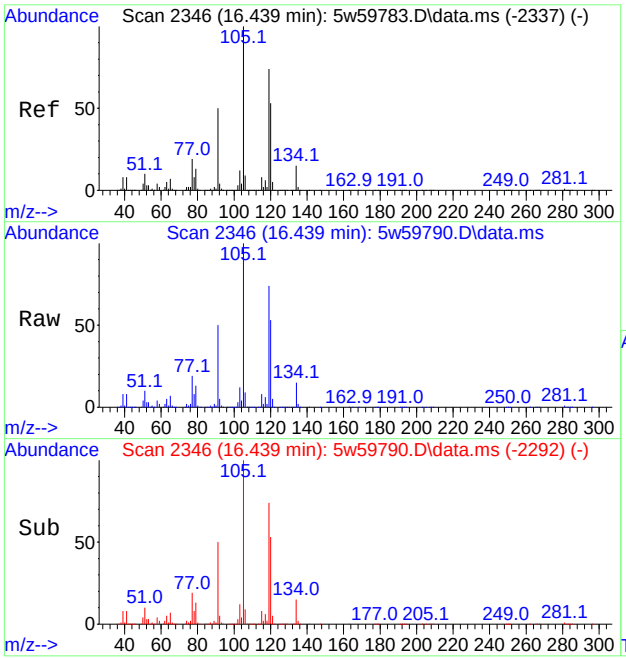


#95
tert-BUTYLBENZENE
Concen: 13.08 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 570968

Ion	Ratio	Lower	Upper
134	100		
119	485.6	459.3	519.3

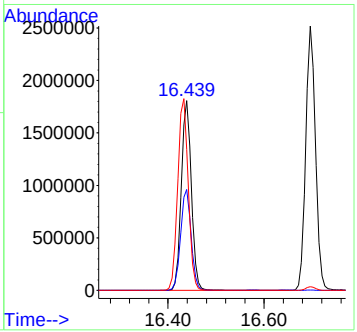


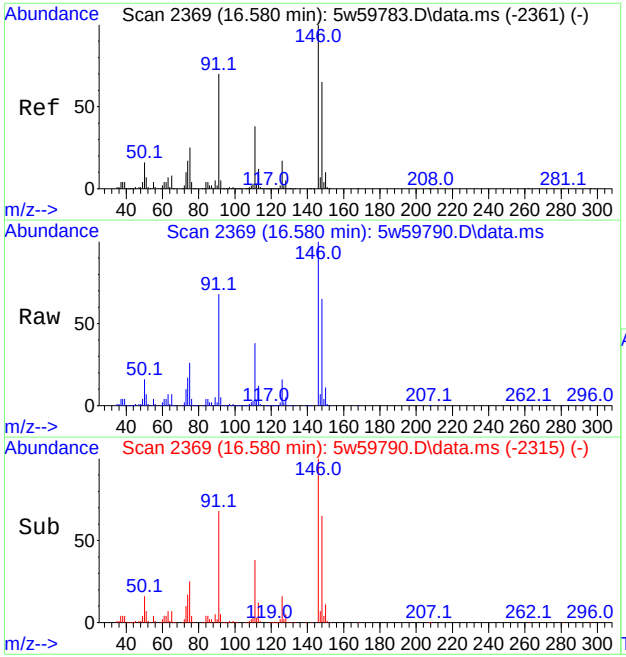


#96
1,2,4-TRIMETHYLBENZENE
Concen: 13.02 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2612198

Ion	Ratio	Lower	Upper
105	100		
120	55.9	25.7	85.7
119	106.1	75.7	135.7

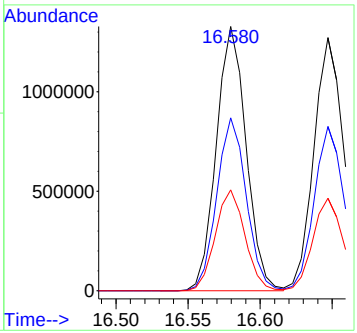


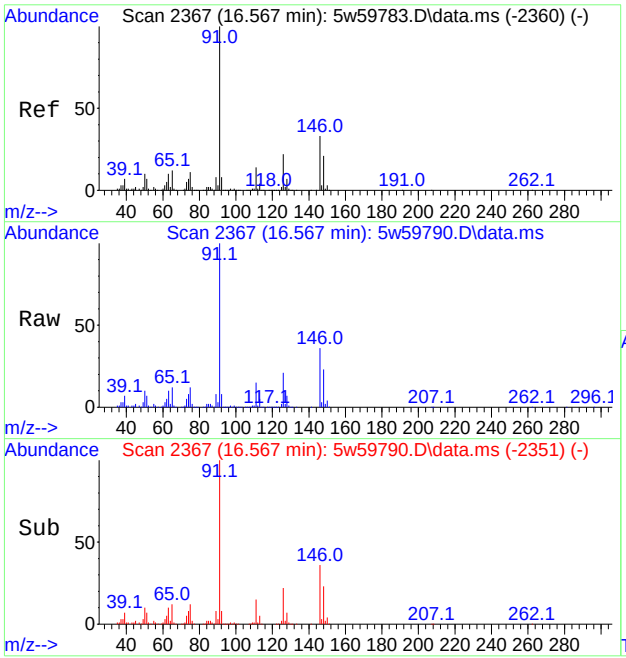


#97
m-DICHLOROBENZENE
Concen: 12.50 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1916772

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.8	94.8
111	38.1	8.2	68.2

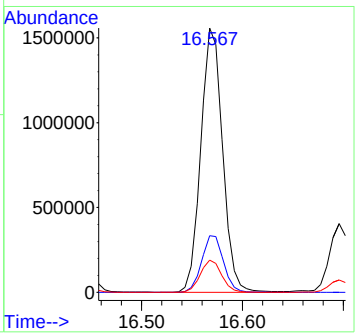


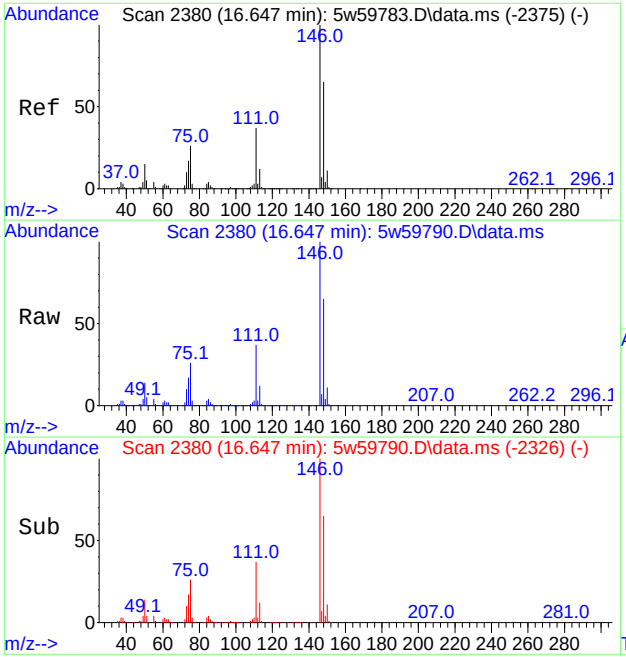


#98
BENZYL CHLORIDE
Concen: 12.63 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2335931

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.1	0.0	42.2

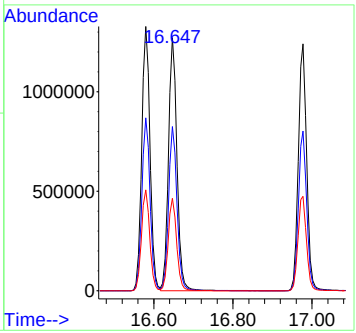


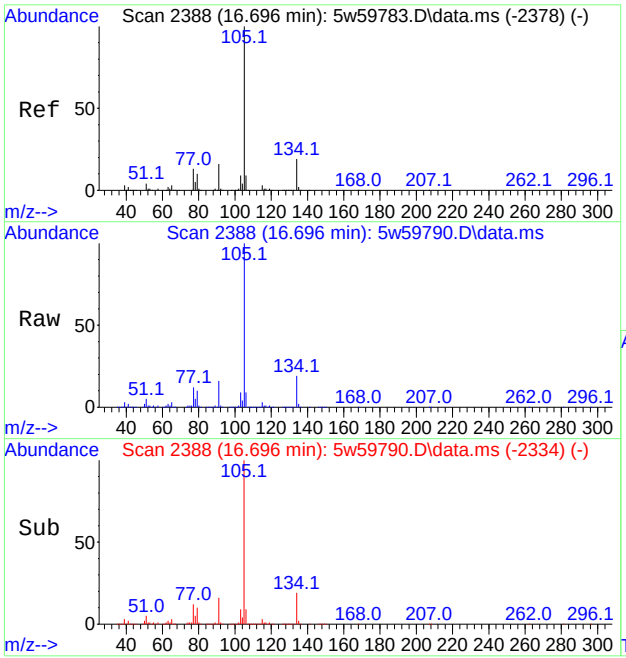


#99
p-DICHLOROBENZENE
Concen: 11.46 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1889997

Ion	Ratio	Lower	Upper
146	100		
148	64.7	34.6	94.6
111	36.6	6.7	66.7

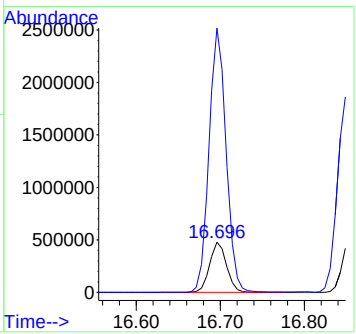


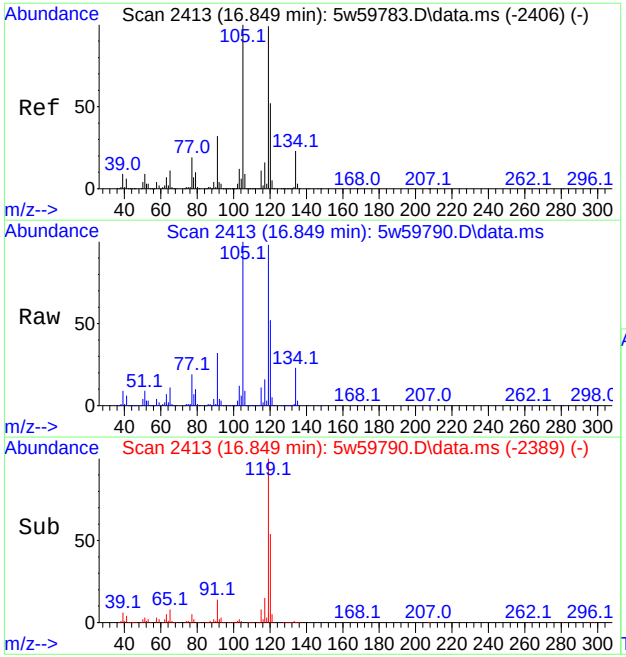


#100
sec-BUTYLBENZENE
Concen: 12.13 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 670798

Ion	Ratio	Lower	Upper
134	100		
105	530.0	502.5	562.5

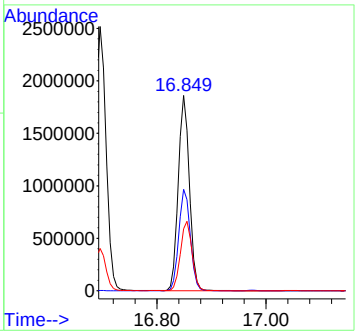


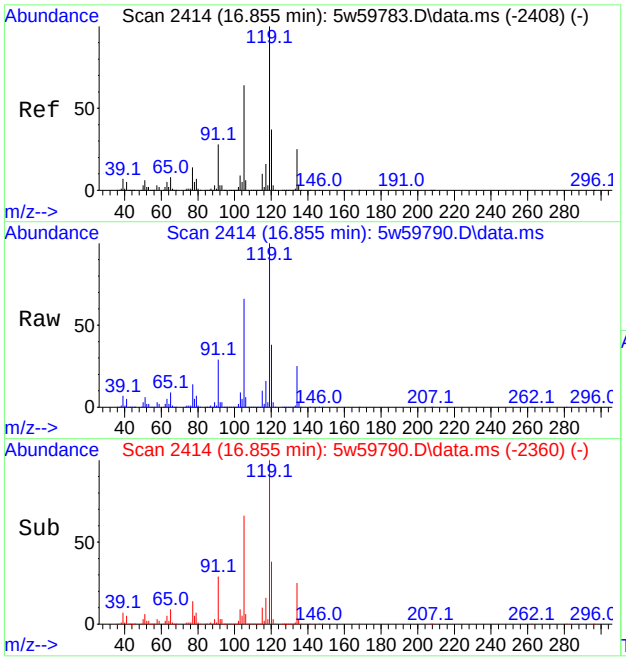


#101
1,2,3-TRIMETHYLBENZENE
Concen: 12.36 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2623929

Ion	Ratio	Lower	Upper
105	100		
120	53.6	23.5	83.5
91	37.1	7.4	67.4

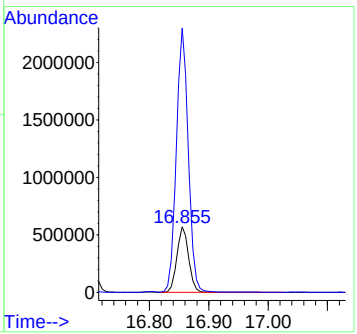


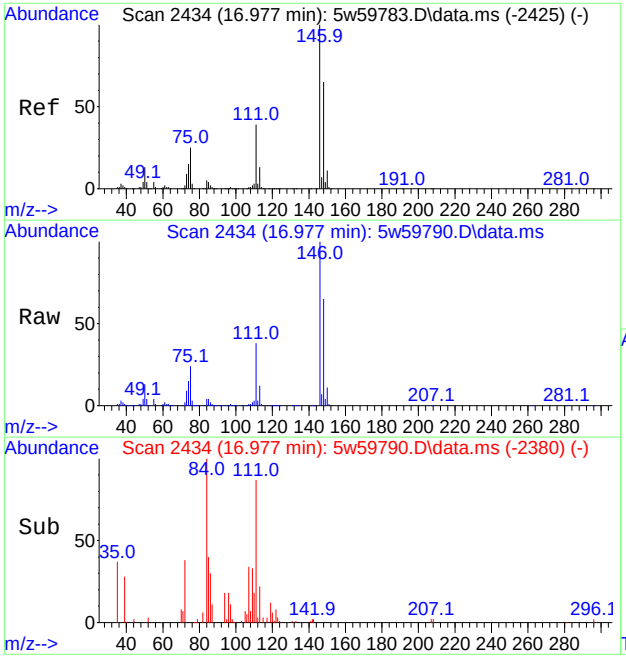


#102
p-ISOPROPYLTOLUENE
Concen: 12.67 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 794033

Ion	Ratio	Lower	Upper
134	100		
119	408.5	377.7	437.7

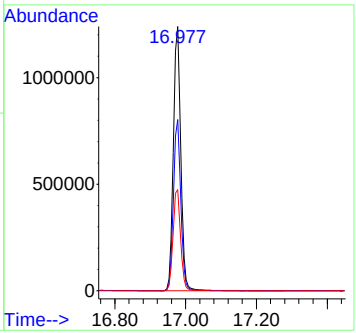


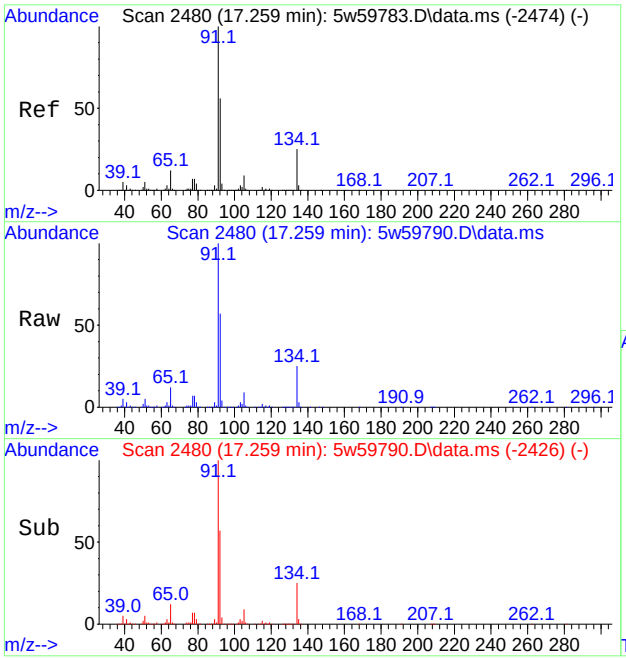


#103
o-DICHLOROBENZENE
Concen: 11.75 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1807576

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.3	94.3
111	38.9	9.2	69.2

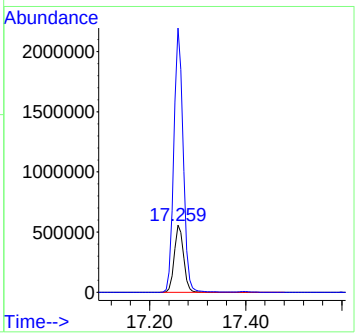


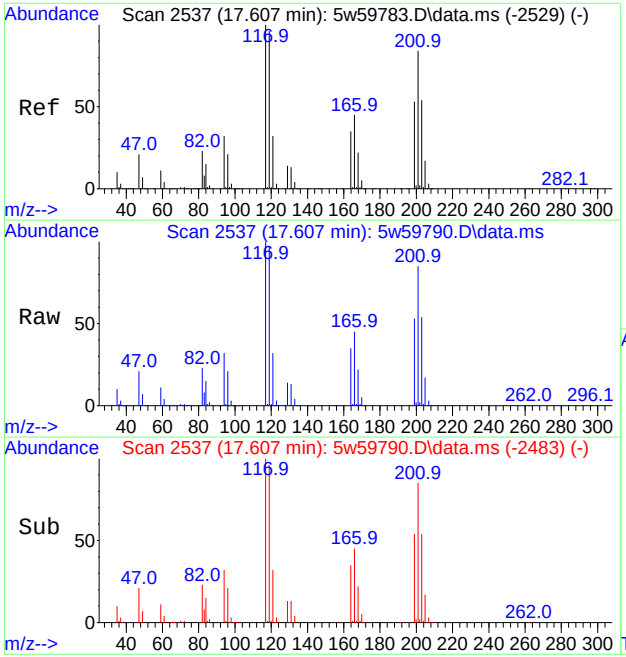


#104
n-BUTYLBENZENE
Concen: 12.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 753590

Ion	Ratio	Lower	Upper
134	100		
91	392.6	363.1	423.1

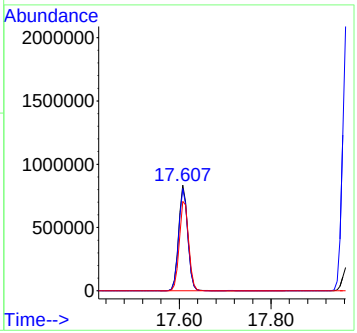


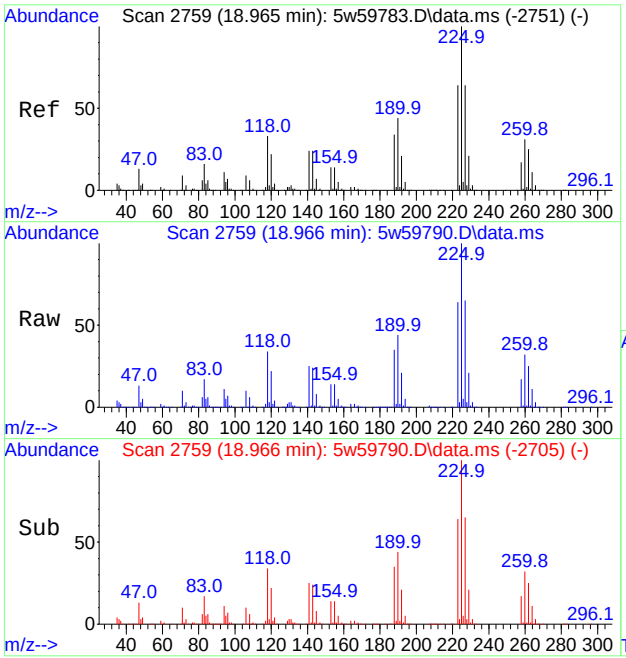


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1153176

Ion	Ratio	Lower	Upper
117	100		
119	96.2	67.2	124.8
201	86.7	61.1	113.5

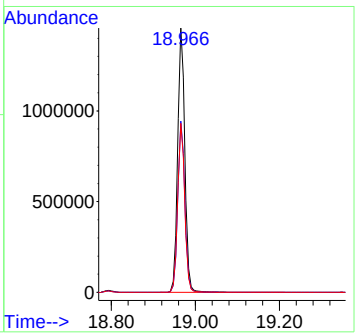


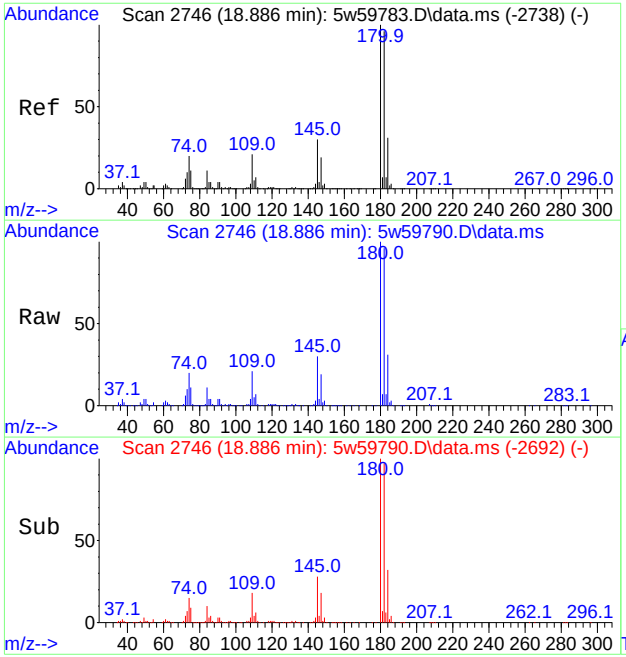


#106
HEXACHLOROBUTADIENE
Concen: 12.11 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:225 Resp: 1732361

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.4	33.3	93.3

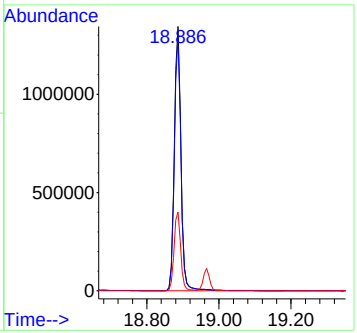


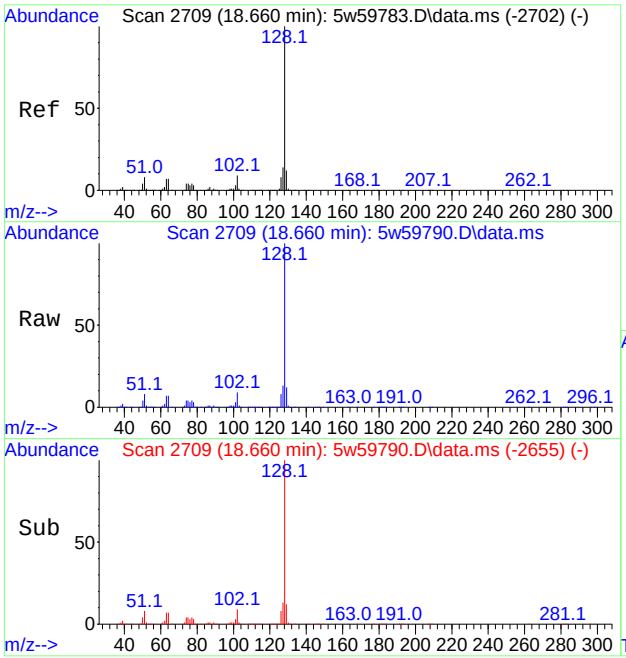


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.05 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:180 Resp: 1717833

Ion	Ratio	Lower	Upper
180	100		
182	95.9	65.4	125.4
145	29.7	0.0	59.4

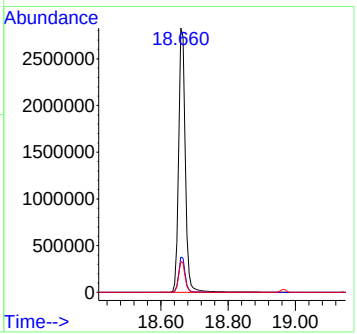


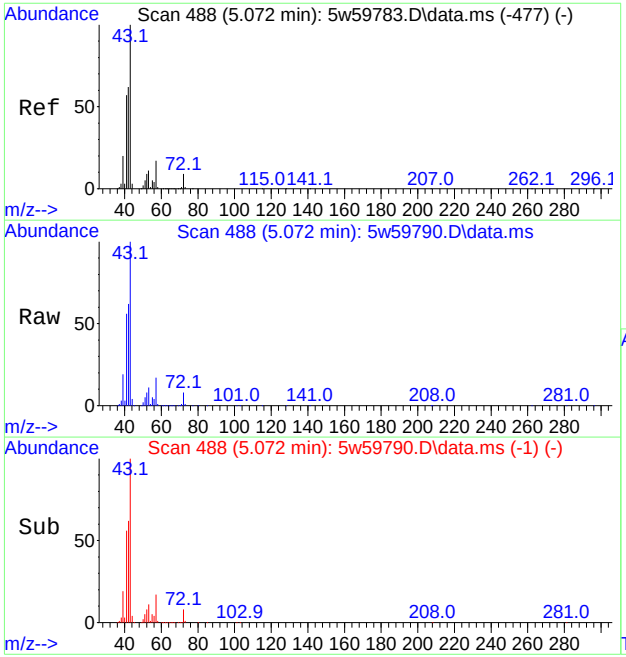


#108
NAPHTHALENE
Concen: 12.54 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:128 Resp: 3898122

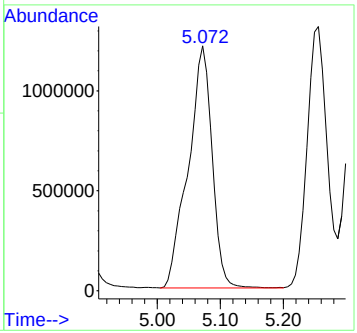
Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	43.3
129	11.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 10.55 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:TIC Resp: 3177953



7.7.11

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	470220	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2049823	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1097928	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	470220	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1392885	10.15	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.50%			
Target Compounds						Qvalue
2) FREON 115	3.371	119	326866	10.1459	PPBV	99
3) FREON 152A	3.445	65	308096	8.8346	PPBV	97
4) CHLORODIFLUOROMETHANE	3.475	67	159233	10.9155	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	818335	11.2032	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.549	85	1510102	11.2218	PPBV	98
7) PROPYLENE	3.500	41	319179	8.8431	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1145136	10.5076	PPBV	97
9) FREON 114	3.732	85	1491348	12.1231	PPBV	98
10) CHLOROMETHANE	3.665	52	137482	9.3028	PPBV	99
11) VINYL CHLORIDE	3.818	62	481278	10.5650	PPBV	99
12) 1,3-BUTADIENE	3.910	54	283401	10.3340	PPBV	98
13) n-BUTANE	3.946	43	441343	9.8480	PPBV	98
14) BROMOMETHANE	4.106	94	546023	11.2707	PPBV	100
15) CHLOROETHANE	4.228	64	210971	9.4930	PPBV	98
16) DICHLOROFLUOROMETHANE	4.289	67	1072755	11.0813	PPBV	99
17) ACETONITRILE	4.479	41	247921	9.6837	PPBV	100
18) ACROLEIN	4.570	56	151722	10.4286	PPBV	96
19) FREON 123	4.589	83	1267783	11.3202	PPBV #	71
20) FREON 123A	4.632	117	778337	12.1007	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.791	101	1341181	11.6680	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	834842	9.0540	PPBV	97
23) ACETONE	4.674	58	187128	10.1467	PPBV	90
24) PENTANE	5.072	42	413834	8.6386	PPBV	99
25) IODOMETHANE	5.256	142	1685190	11.7624	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	518986	10.2907	PPBV	92
27) CARBON DISULFIDE	5.672	76	1376641	10.4175	PPBV	98
28) ETHANOL	4.320	45	171992	11.1335	PPBV	99
29) BROMOETHENE	4.479	106	567142	11.8700	PPBV	100
30) ACRYLONITRILE	5.042	52	297460	9.5306	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	451379	9.5667	PPBV	91
32) 3-CHLOROPROPENE	5.519	76	215893	9.5054	PPBV	87
33) FREON 113	5.641	151	951655	11.3406	PPBV	97
34) TRANS-1,2-DICHLOROETHY...	6.241	96	526395	9.9548	PPBV	93
35) TERTIARY BUTYL ALCOHOL	5.378	59	919943	9.7568	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1337117	10.0464	PPBV	97
37) TETRAHYDROFURAN	7.856	72	200962	11.0075	PPBV	91
38) HEXANE	7.379	57	724495	9.6508	PPBV	98
39) VINYL ACETATE	6.565	86	82739	10.8977	PPBV #	70
40) 1,1-DICHLOROETHANE	6.424	63	921820	9.5004	PPBV	99
41) METHYL ETHYL KETONE	6.797	72	211335	11.6357	PPBV #	85
42) cis-1,2-DICHLOROETHYLENE	7.195	96	554718	9.6249	PPBV	95
43) DIISOPROPYL ETHER	7.385	59	226741	11.4869	PPBV	95
44) ETHYL ACETATE	7.415	61	165646	11.9353	PPBV #	1
45) METHYL ACRYLATE	7.403	55	907802	12.2101	PPBV	98
46) CHLOROFORM	7.476	83	1168778	11.1790	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	832763	9.8014	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.406	97	1211580	11.1104	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1349067	11.3900	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	775572	10.6757	PPBV		99
52)	BENZENE	8.853	78	1495903	10.8929	PPBV		98
53)	CYCLOHEXANE	9.104	84	581961	10.6075	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.348	71	291255	10.5057	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	792757	11.3323	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	576732	9.0459	PPBV		99
57)	DIBROMOMETHANE	9.630	174	860591	11.0058	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1100529	11.0454	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1346052	11.0969	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2287516	10.5261	PPBV		99
61)	1,4-DIOXANE	9.899	88	347837	11.1041	PPBV		92
62)	HEPTANE	10.180	43	728662	9.2215	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	501935	11.2148	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	463649	11.4439	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.749	75	999428	10.2319	PPBV		95
66)	TOLUENE	11.716	92	1111812	10.8312	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	888447	10.6183	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	902397	9.7868	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	624758	11.2090	PPBV		100
71)	2-HEXANONE	12.010	58	674815	11.7504	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	901895	11.8904	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	962806	12.8556	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.150	129	1573733	12.1695	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1269369	12.6163	PPBV		100
76)	OCTANE	12.738	43	1053564	10.1020	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1003830	12.1912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1619008	11.8010	PPBV		100
79)	ETHYLBENZENE	13.980	91	2508035	11.9174	PPBV		100
80)	m,p-XYLENE	14.181	106	1924720	23.2075	PPBV		99
81)	o-XYLENE	14.677	106	949484	12.2264	PPBV		100
82)	STYRENE	14.567	104	1494724	12.3322	PPBV		99
83)	NONANE	14.928	43	1096357	10.3927	PPBV		97
84)	BROMOFORM	14.249	173	1685100	13.2101	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1656478	12.2657	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1130272	10.4090	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2741340	11.5284	PPBV		100
89)	BROMOBENZENE	15.374	77	1335269	10.7933	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	750782	11.4000	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	767167	12.0340	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2799486	12.8708	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2378299	11.7612	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1185359	11.8976	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	543620	13.2410	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2520167	13.3550	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1855781	12.8649	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2204108	12.6776	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1844102	11.8897	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	617709	11.8779	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2525370	12.6546	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	778885	13.2130	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1713925	11.8444	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	715520	12.3936	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1003668	10.0858	PPBV		99
106)	HEXACHLOROBUTADIENE	18.965	225	1793051	13.3307	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1773089	13.2234	PPBV		100
108)	NAPHTHALENE	18.660	128	3918365	13.4079	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	2785944	9.7977	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

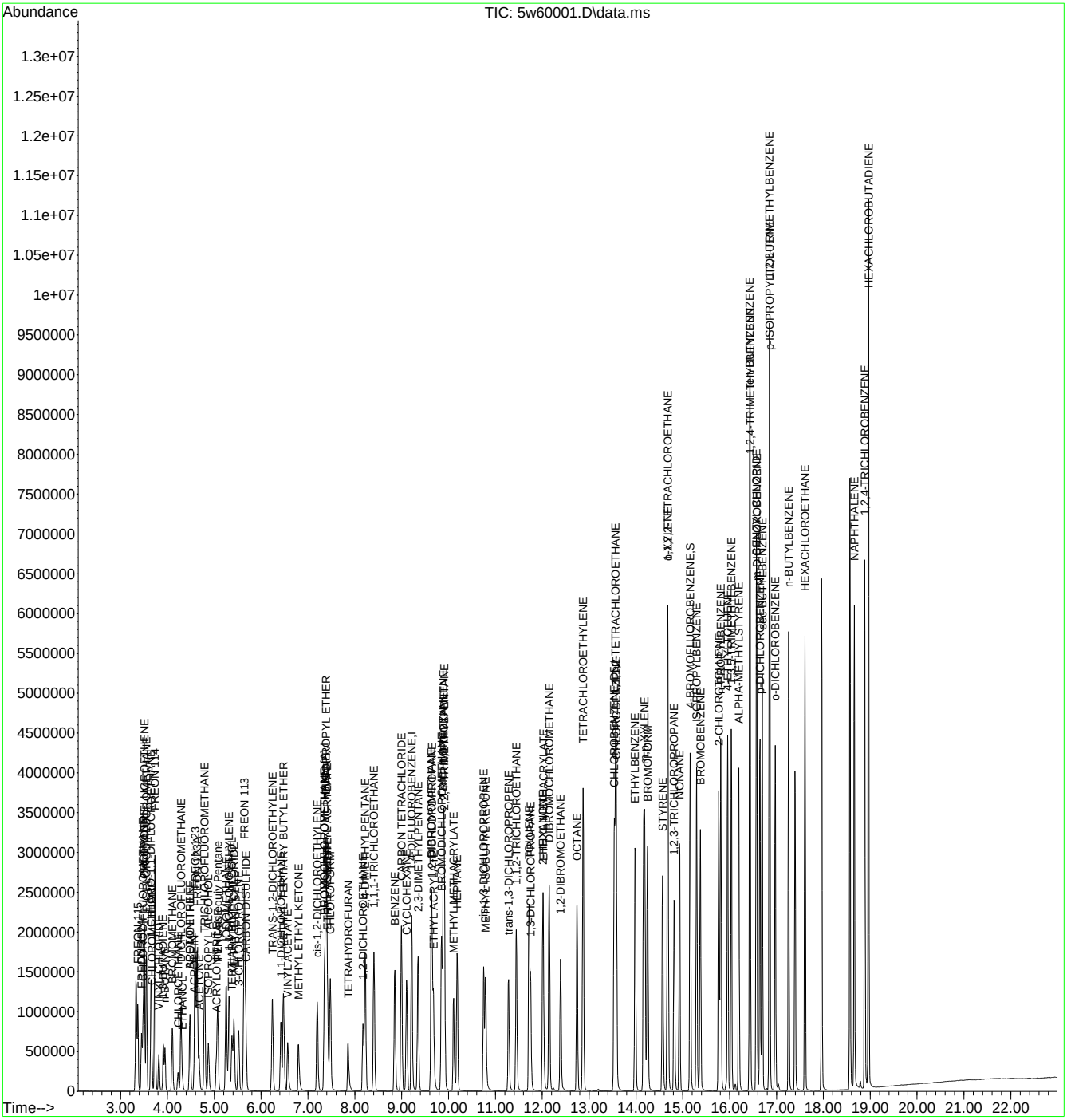
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	114117	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	582166	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	538138	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	114117	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	427692	9.77	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	571	0.04	PPBV		82
3) FREON 152A	1.602	65	357	0.05	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	127	0.04	PPBV	#	79
5) CHLOROTRIFLUOROETHENE	1.631	116	598	0.04	PPBV		77
6) DICHLORODIFLUOROMETHANE	1.647	85	1176m	0.03	PPBV		
7) PROPYLENE	1.628	41	518	0.06	PPBV	#	80
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1089	0.04	PPBV		93
9) FREON 114	1.714	85	1188	0.04	PPBV		81
10) CHLOROMETHANE	1.689	52	220	0.06	PPBV		60
11) VINYL CHLORIDE	1.747	62	679	0.05	PPBV	#	92
12) 1,3-BUTADIENE	1.785	54	573	0.05	PPBV	#	62
14) BROMOMETHANE	1.859	94	558	0.05	PPBV	#	95
15) CHLOROETHANE	1.907	64	393	0.05	PPBV		91
16) DICHLOROFLUOROMETHANE	1.930	67	1164	0.04	PPBV	#	56
17) ACETONITRILE	2.001	41	762	0.06	PPBV	#	43
19) FREON 123	2.049	83	1179	0.04	PPBV		97
20) FREON 123A	2.062	117	787	0.05	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.129	101	1269	0.04	PPBV	#	98
24) PENTANE	2.239	42	777	0.06	PPBV	#	82
25) IODOMETHANE	2.300	142	1191	0.04	PPBV		93
26) 1,1-DICHLOROETHYLENE	2.332	96	522	0.04	PPBV	#	59
27) CARBON DISULFIDE	2.460	76	1446	0.04	PPBV	#	4
29) BROMOETHENE	2.001	106	466	0.04	PPBV	#	94
32) 3-CHLOROPROPENE	2.409	76	263	0.04	PPBV	#	64
33) FREON 113	2.460	151	709	0.04	PPBV		83
34) TRANS-1,2-DICHLOROETHENE	2.685	96	555	0.04	PPBV	#	58
35) TERTIARY BUTYL ALCOHOL	2.348	59	1458	0.05	PPBV	#	71
36) METHYL TERTIARY BUTYL ...	2.795	73	1635	0.04	PPBV	#	50
37) TETRAHYDROFURAN	3.499	72	205	0.03	PPBV	#	48
38) HEXANE	3.242	57	1163	0.05	PPBV		87
39) VINYL ACETATE	2.833	86	161	0.05	PPBV	#	13
40) 1,1-DICHLOROETHANE	2.759	63	1028	0.04	PPBV		99
41) METHYL ETHYL KETONE	2.930	72	323	0.05	PPBV	#	25
42) CIS-1,2-DICHLOROETHENE	3.116	96	586	0.04	PPBV		81
43) DIISOPROPYL ETHER	3.245	59	314	0.05	PPBV		88
44) ETHYL ACETATE	3.251	61	203	0.04	PPBV	#	97
45) METHYL ACRYLATE	3.242	55	1383	0.05	PPBV	#	86
46) CHLOROFORM	3.261	83	1053	0.04	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	3.740	57	1228	0.04	PPBV	#	92
48) 1,1,1-TRICHLOROETHANE	3.820	97	1132	0.04	PPBV		92
49) CARBON TETRACHLORIDE	4.235	117	1061	0.04	PPBV		88
50) 1,2-DICHLOROETHANE	3.656	62	712	0.03	PPBV	#	93
51) BENZENE	4.132	78	1781	0.05	PPBV		94
53) CYCLOHEXANE	4.332	84	700	0.04	PPBV	#	56
54) 2,3-DIMETHYLPENTANE	4.586	71	330	0.04	PPBV	#	6
55) TRICHLOROETHENE	5.013	95	741	0.04	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	703	0.04	PPBV	#	77
57) DIBROMOMETHANE	4.740	174	802	0.05	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

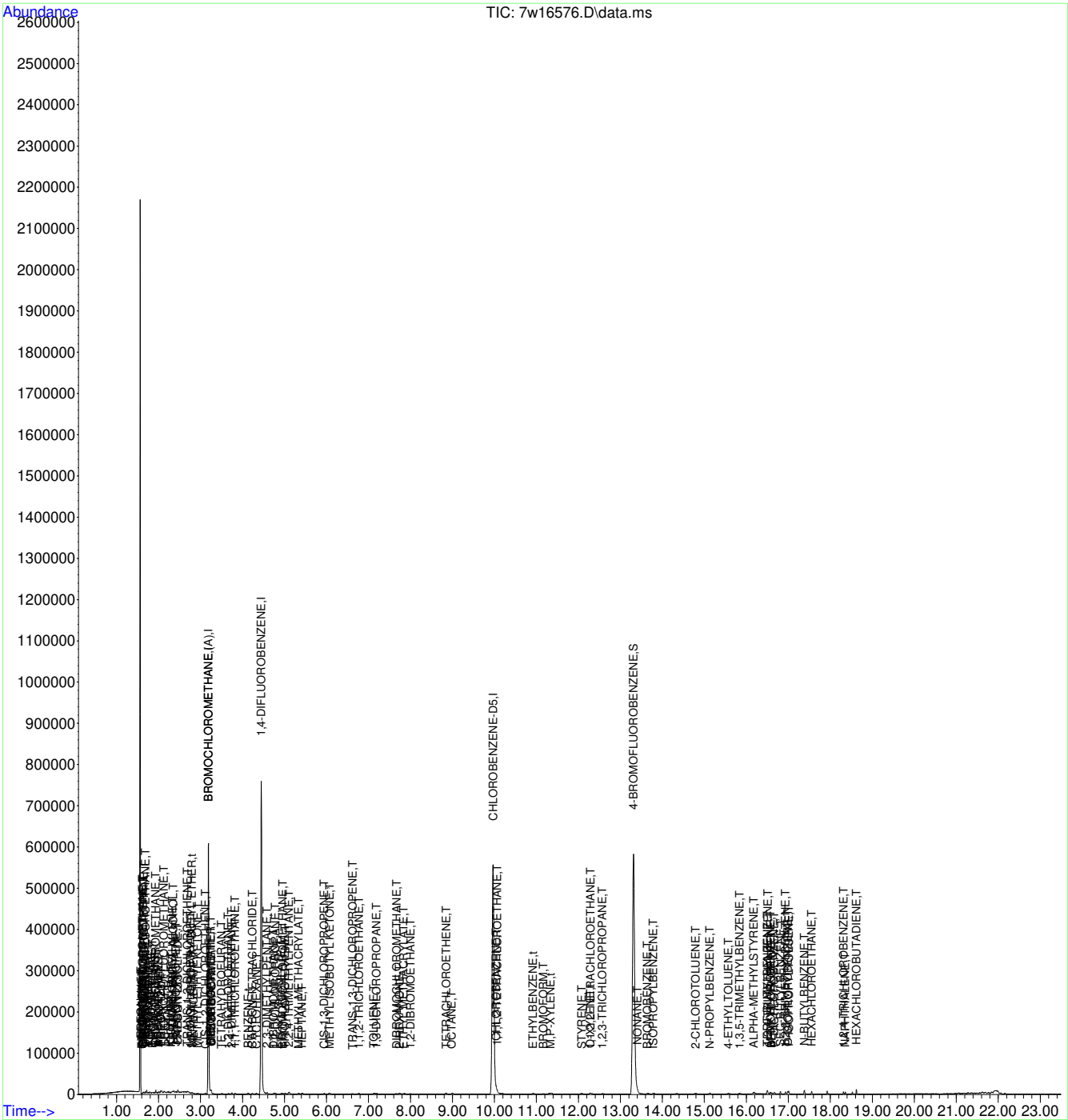
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	4.920	55	1547	0.04	PPBV	#	87
59) BROMODICHLOROMETHANE	4.959	83	1145	0.04	PPBV		97
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	3683	0.05	PPBV	#	90
62) HEPTANE	5.418	43	1262	0.05	PPBV		89
63) METHYL METHACRYLATE	5.332	69	659	0.04	PPBV	#	71
64) METHYL ISOBUTYL KETONE	6.074	58	776	0.05	PPBV	#	93
65) CIS-1,3-DICHLOROPROPENE	5.939	75	908	0.03	PPBV		89
66) TOLUENE	7.129	91	1961	0.04	PPBV		94
67) 1,3-DICHLOROPROPANE	7.187	76	917	0.04	PPBV	#	90
68) TRANS-1,3-DICHLOROPROPENE	6.624	75	685	0.03	PPBV	#	73
69) 1,1,2-TRICHLOROETHANE	6.775	83	432	0.03	PPBV		88
70) 2-HEXANONE	7.733	58	1334	0.06	PPBV	#	1
71) ETHYL METHACRYLATE	7.836	69	991	0.04	PPBV	#	33
72) TETRACHLOROETHENE	8.852	164	707	0.04	PPBV	#	62
73) DIBROMOCHLOROMETHANE	7.669	129	938	0.03	PPBV	#	21
74) 1,2-DIBROMOETHANE	8.004	107	998	0.04	PPBV	#	98
75) OCTANE	8.981	43	1632	0.04	PPBV	#	30
77) 1,1,1,2-TETRACHLOROETHANE	10.065	131	804	0.04	PPBV		100
78) CHLOROBENZENE	10.039	112	1584	0.04	PPBV	#	75
79) ETHYLBENZENE	10.917	91	2610	0.04	PPBV		87
80) M,P-XYLENE	11.335	91	4291	0.08	PPBV		90
81) O-XYLENE	12.280	91	2009	0.04	PPBV	#	64
82) STYRENE	12.077	104	1372	0.04	PPBV		94
83) NONANE	13.408	43	1708	0.04	PPBV	#	21
84) BROMOFORM	11.164	173	746	0.03	PPBV	#	92
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	1386	0.04	PPBV	#	91
86) 1,2,3-TRICHLOROPROPANE	12.566	75	1086	0.04	PPBV	#	99
88) ISOPROPYLBENZENE	13.778	120	720	0.04	PPBV		100
89) BROMOBENZENE	13.643	77	1476	0.04	PPBV	#	72
90) 2-CHLOROTOLUENE	14.788	126	652	0.04	PPBV	#	66
91) N-PROPYLBENZENE	15.125	120	688	0.03	PPBV	#	64
92) 4-ETHYLTOLUENE	15.569	105	2796	0.04	PPBV	#	93
93) 1,3,5-TRIMETHYLBENZENE	15.842	105	2434	0.04	PPBV		88
94) ALPHA-METHYLSTYRENE	16.180	118	1042	0.03	PPBV		91
95) TERT-BUTYLBENZENE	16.495	134	685	0.05	PPBV		91
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	2331	0.04	PPBV		91
97) BENZYL CHLORIDE	16.601	91	1503	0.03	PPBV		89
98) M-DICHLOROBENZENE	16.572	146	1758	0.04	PPBV		98
99) P-DICHLOROBENZENE	16.666	146	1701	0.04	PPBV		93
100) O-DICHLOROBENZENE	16.987	146	1470	0.04	PPBV		92
101) SEC-BUTYLBENZENE	16.810	134	660	0.04	PPBV		63
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	2483	0.04	PPBV		94
103) P-ISOPROPYLTOLUENE	17.013	134	767	0.04	PPBV		86
104) N-BUTYLBENZENE	17.376	134	703	0.04	PPBV		66
105) HEXACHLOROETHANE	17.556	117	895	0.04	PPBV		97
106) HEXACHLOROBUTADIENE	18.620	225	1203	0.04	PPBV		98
107) 1,2,4-TRICHLOROBENZENE	18.312	180	1219	0.03	PPBV		94
108) NAPHTHALENE	18.357	128	2545	0.03	PPBV		94

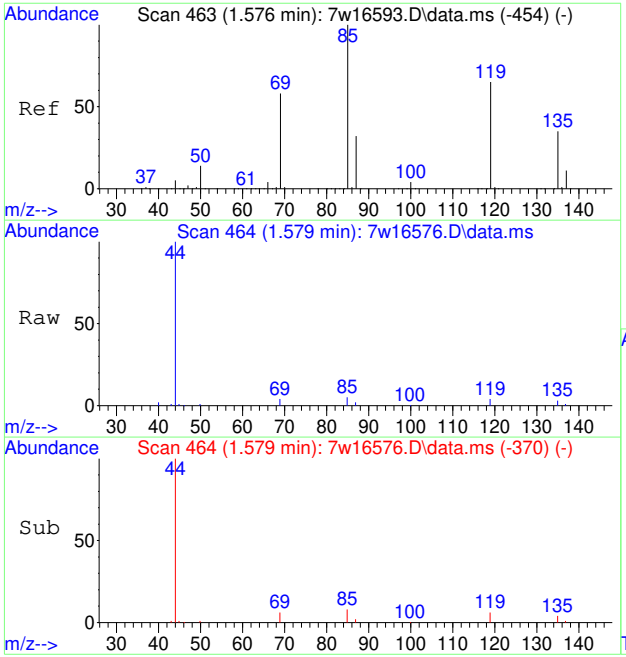
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

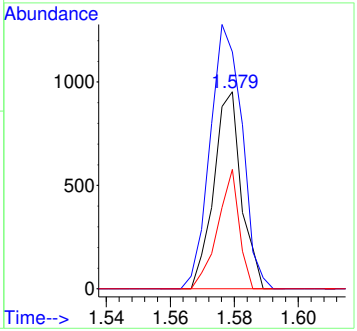


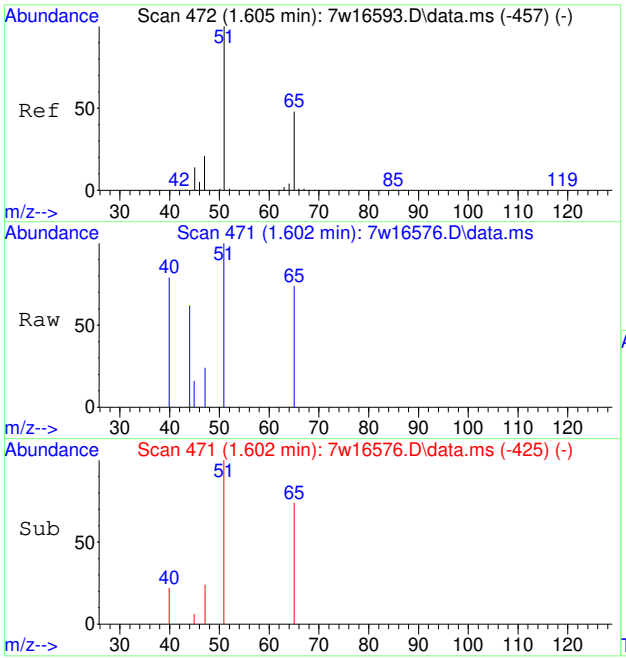


#2
FREON 115
Concen: 0.04 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:119 Resp: 571

Ion	Ratio	Lower	Upper
119	100		
85	155.3	90.9	168.7
135	47.3	38.2	71.0

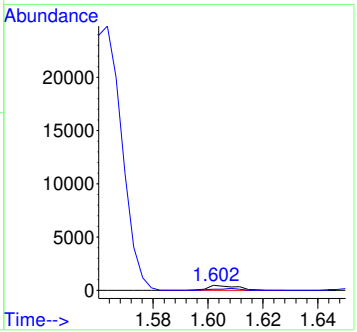


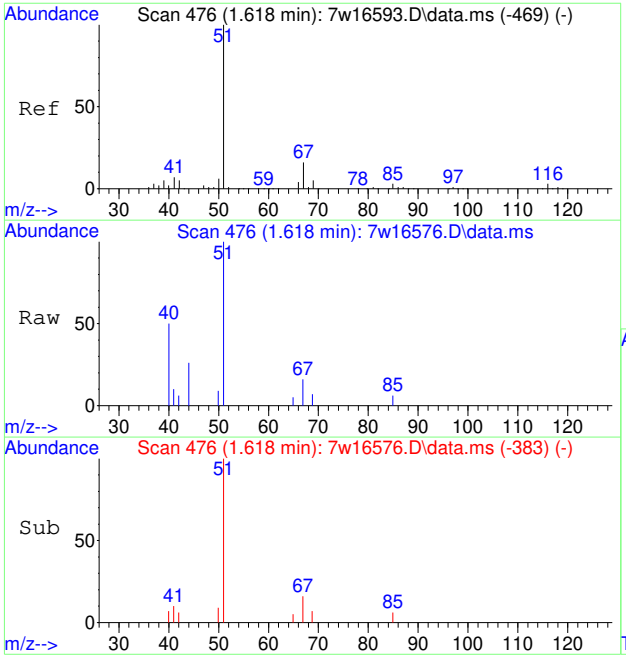


#3
FREON 152A
Concen: 0.05 PPBV
RT: 1.602 min Scan# 471
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 357

Ion	Ratio	Lower	Upper
65	100		
45	30.5	20.6	38.4

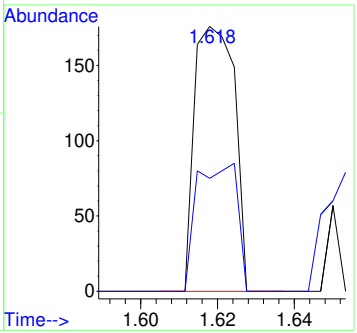


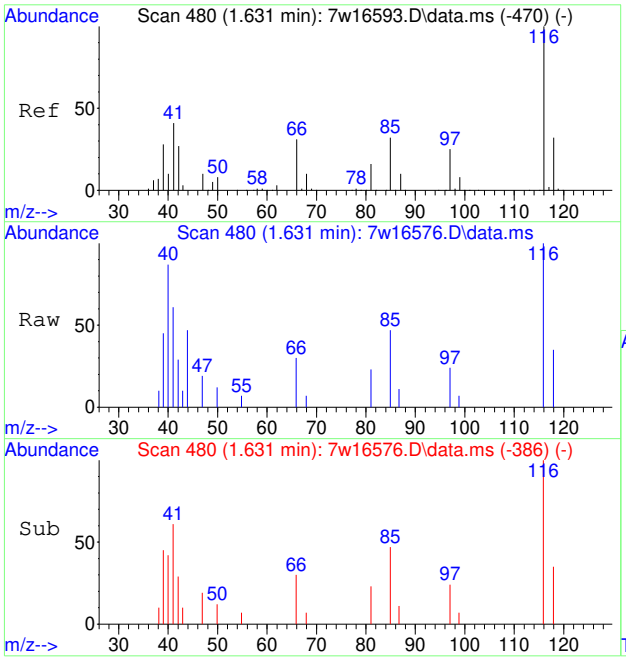


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 127

Ion	Ratio	Lower	Upper
67	100		
69	48.8	25.4	47.2#

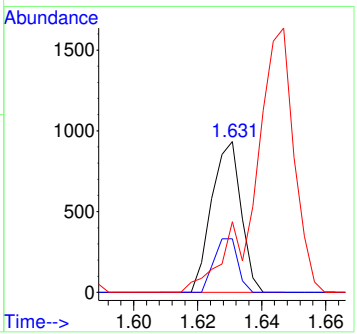


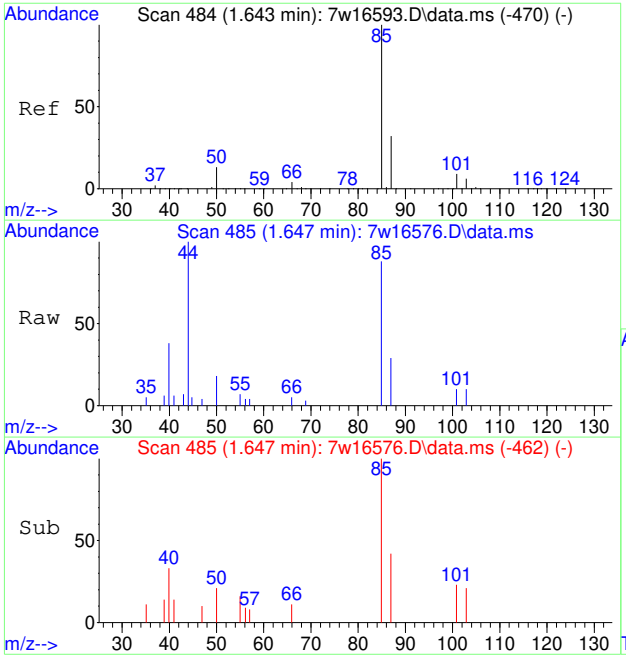


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:116 Resp: 598

Ion	Ratio	Lower	Upper
116	100		
118	28.9	22.7	42.1
85	232.1	194.7	361.7

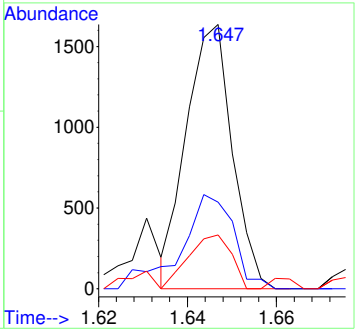


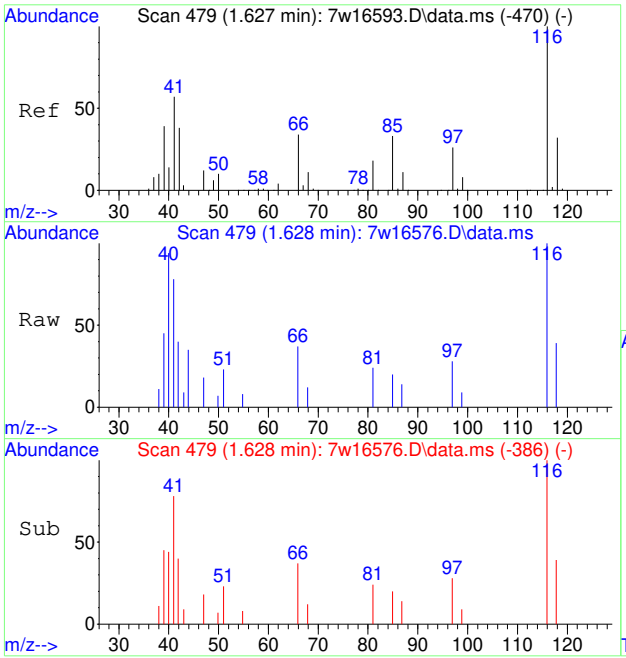


#6
DICHLORODIFLUOROMETHANE
Concen: 0.03 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1176

Ion	Ratio	Lower	Upper
85	100		
87	40.9	23.1	42.9
50	27.6	12.1	22.5#

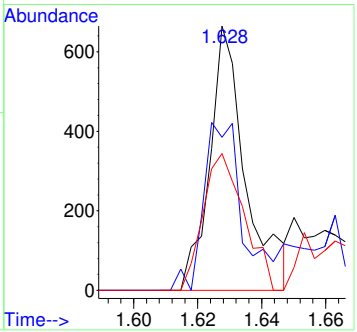


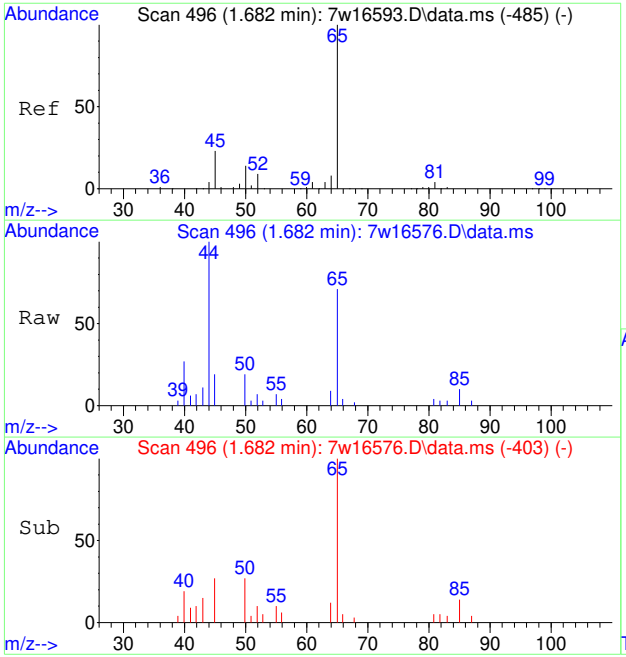


#7
PROPYLENE
Concen: 0.06 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 518

Ion	Ratio	Lower	Upper
41	100		
39	98.5	51.0	94.8#
42	59.3	46.6	86.6

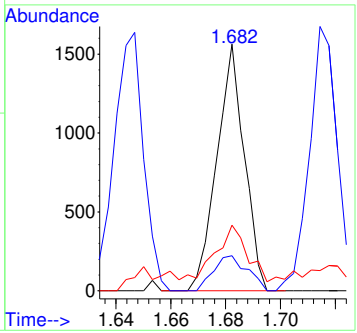


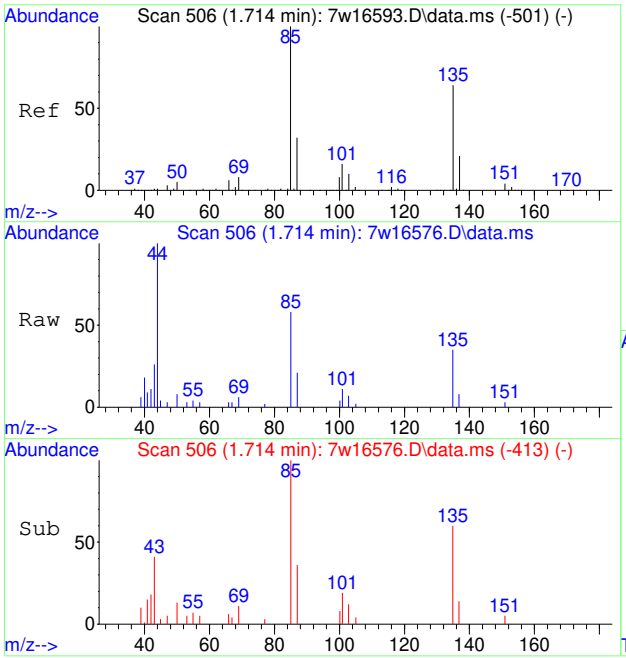


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.04 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 1089

Ion	Ratio	Lower	Upper
65	100		
85	17.5	9.7	17.9
45	27.3	17.0	31.6

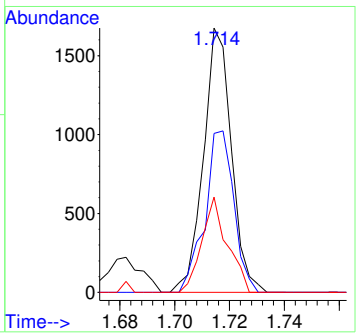


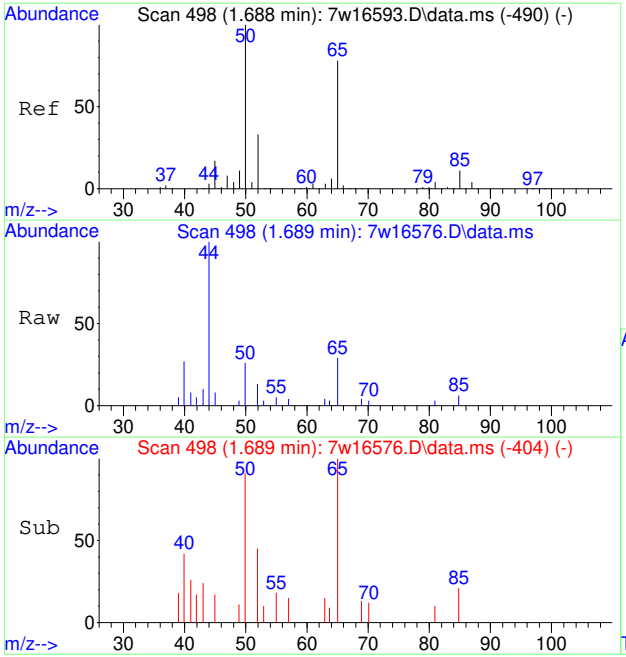


#9
FREON 114
Concen: 0.04 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1188

Ion	Ratio	Lower	Upper
85	100		
135	63.0	61.3	113.9
87	32.9	23.2	43.0

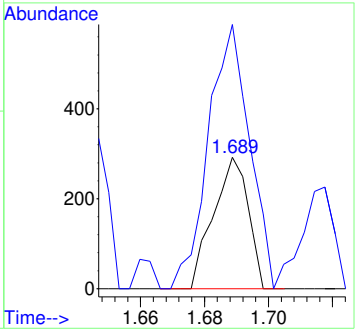


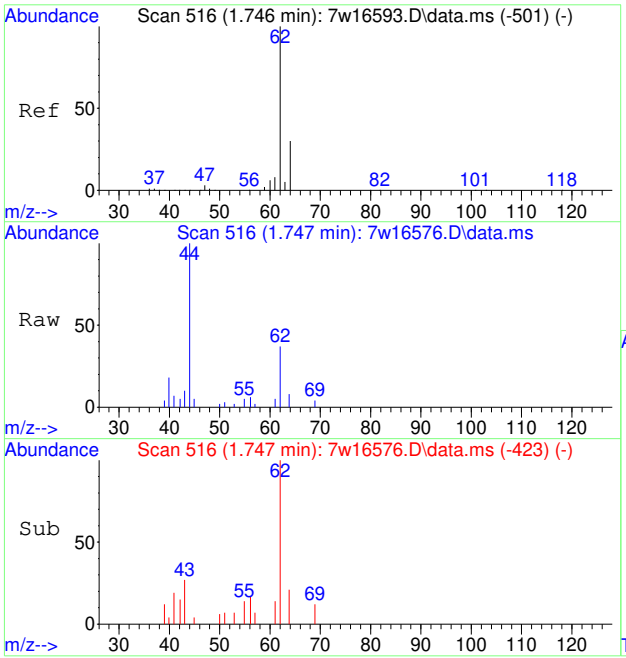


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 52 Resp: 220

Ion	Ratio	Lower	Upper
52	100		
50	242.3	227.6	422.6

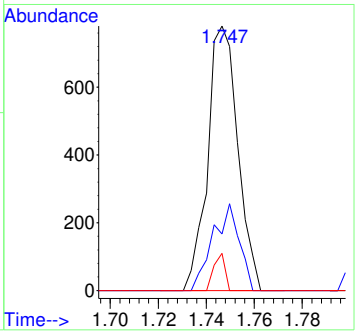


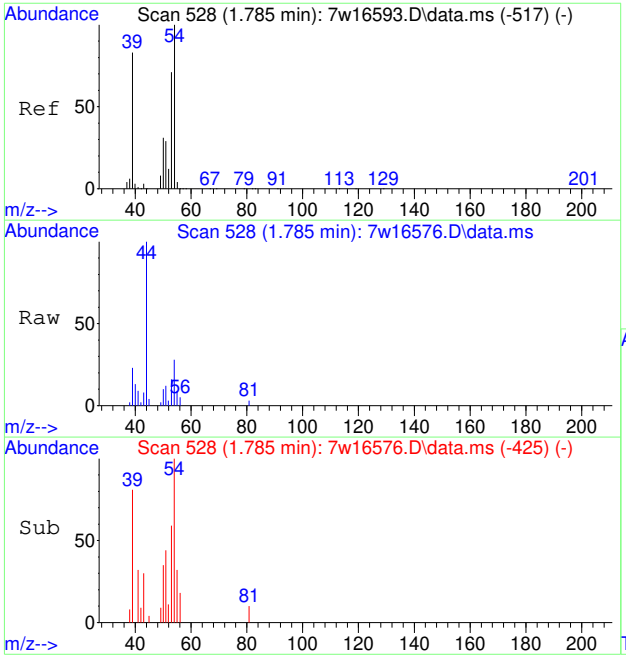


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 679

Ion	Ratio	Lower	Upper
62	100		
64	28.9	21.6	40.2
61	0.0	5.7	10.7#

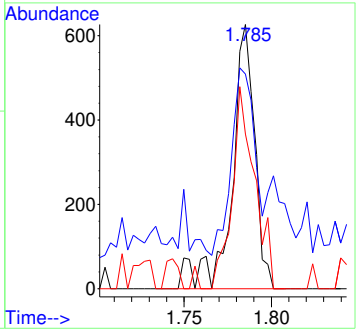


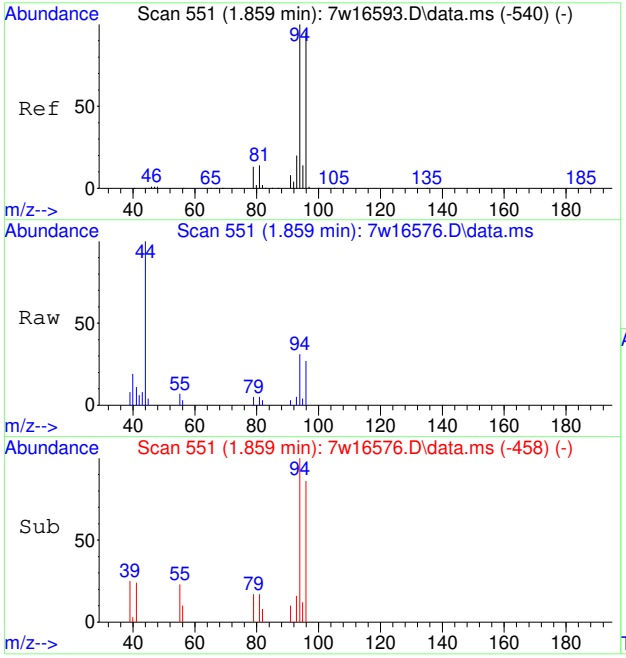


#12
1,3-BUTADIENE
Concen: 0.05 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 54 Resp: 573

Ion	Ratio	Lower	Upper
54	100		
39	88.8	125.6	185.6#
53	76.8	40.7	100.7

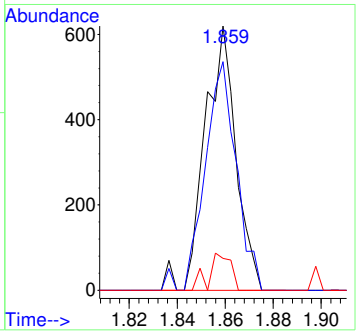


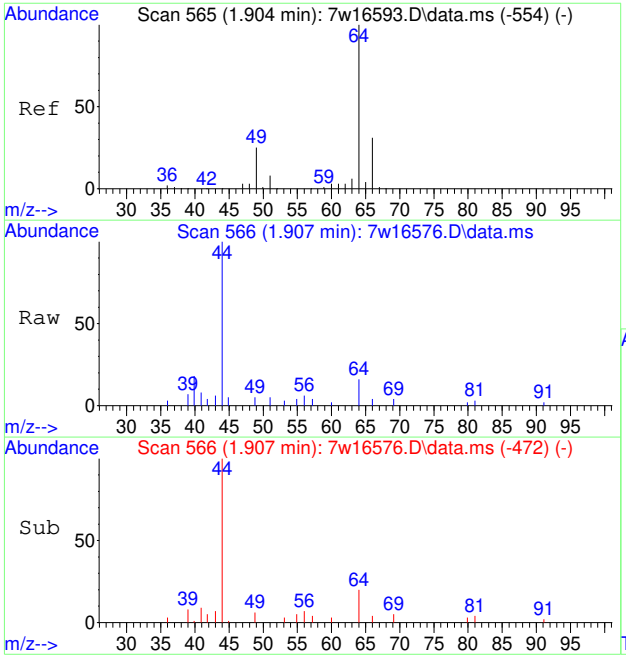


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 94 Resp: 558

Ion	Ratio	Lower	Upper
94	100		
96	87.3	63.6	118.0
95	9.9	10.0	18.6#

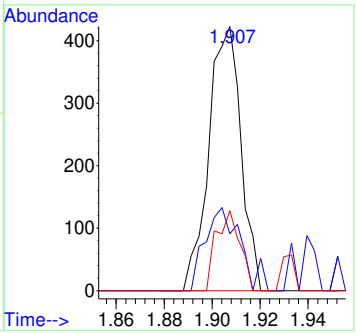


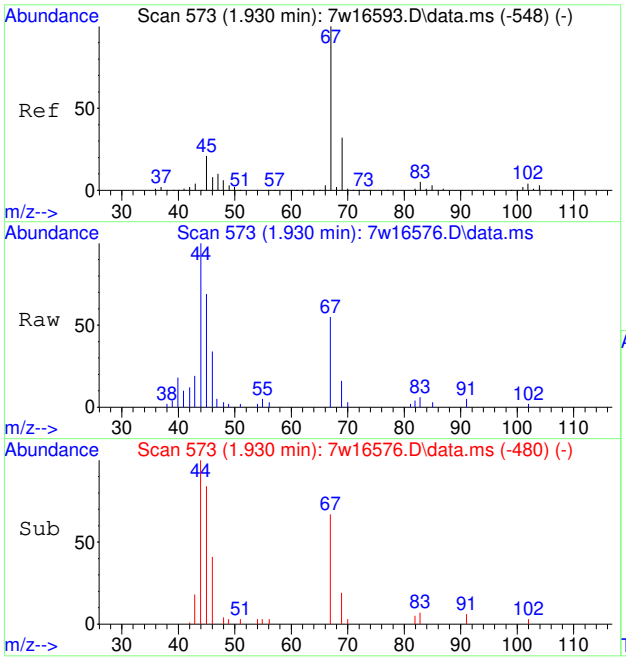


#15
CHLOROETHANE
Concen: 0.05 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 64 Resp: 393

Ion	Ratio	Lower	Upper
64	100		
66	34.9	23.0	42.6
49	22.4	21.5	39.9

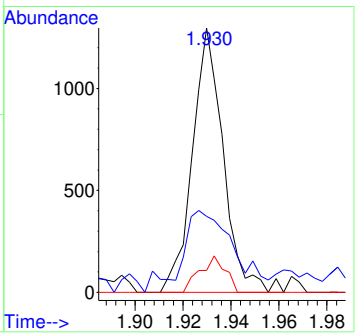


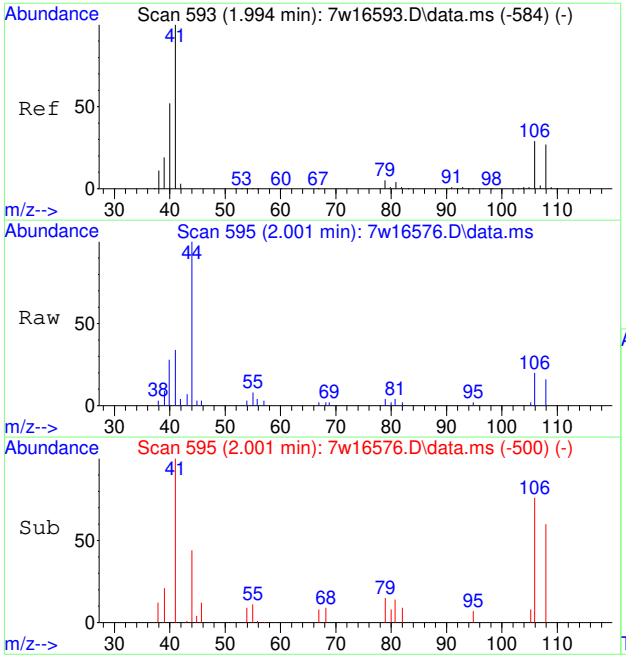


#16
DICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 1164

Ion	Ratio	Lower	Upper
67	100		
69	67.2	23.2	43.0#
47	11.3	9.6	17.8

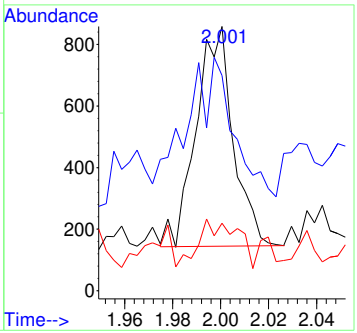


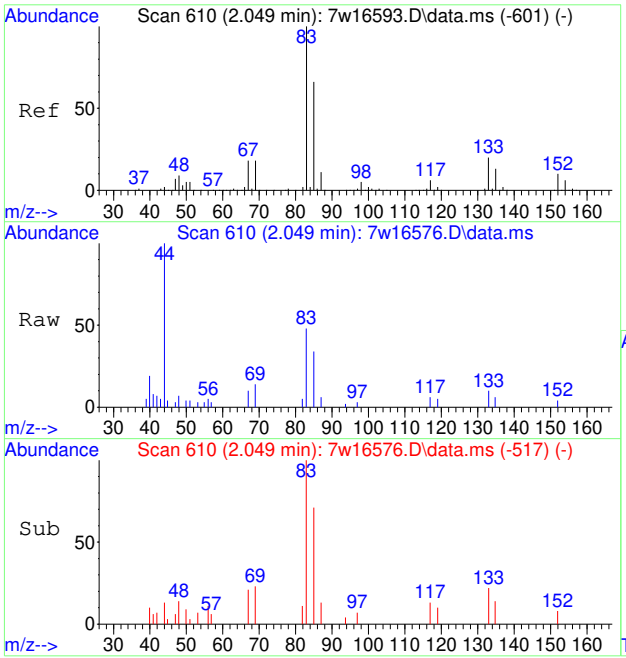


#17
ACETONITRILE
Concen: 0.06 PPBV
RT: 2.001 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 762

Ion	Ratio	Lower	Upper
41	100		
40	110.5	38.4	71.4#
39	23.4	14.5	26.9

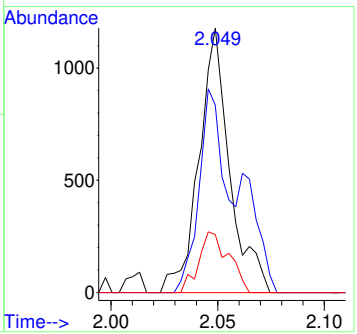


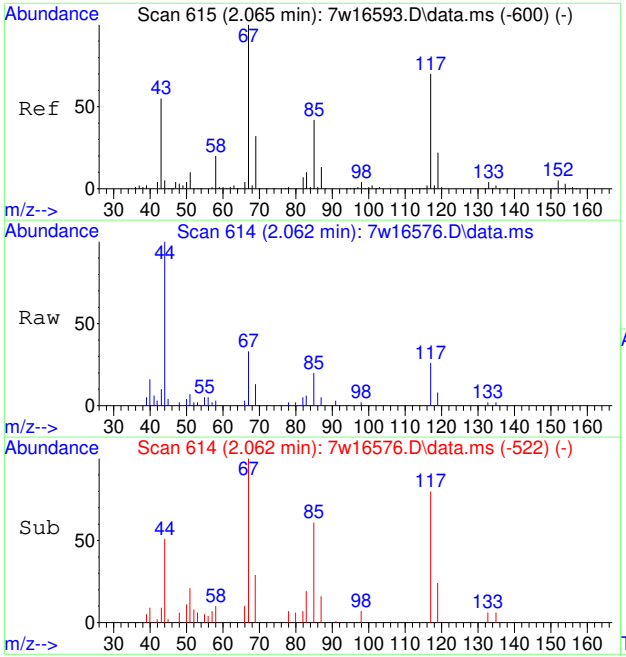


#19
FREON 123
Concen: 0.04 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1179

Ion	Ratio	Lower	Upper
83	100		
85	94.0	65.7	121.9
133	22.4	19.9	36.9

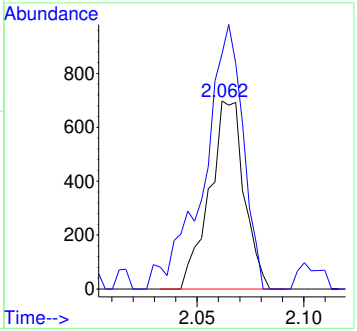


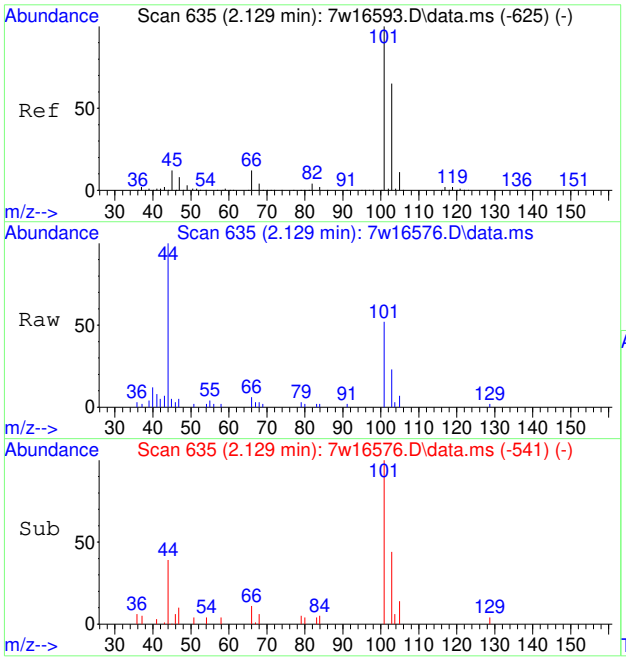


#20
FREON 123A
Concen: 0.05 PPBV
RT: 2.062 min Scan# 614
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 787

Ion	Ratio	Lower	Upper
117	100		
67	158.8	78.8	146.4#

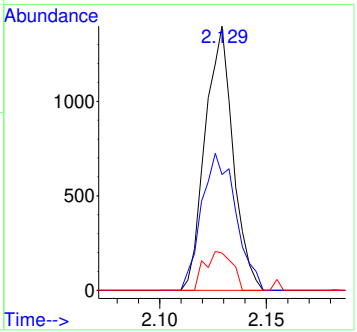


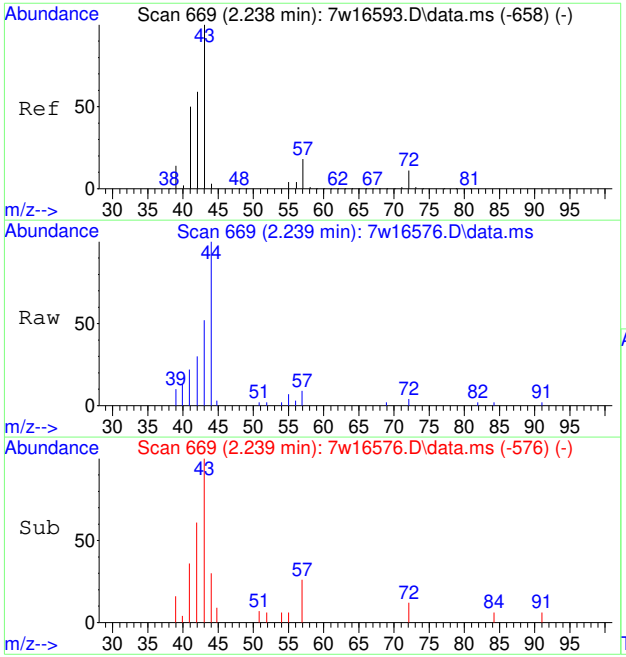


#21
TRICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:101 Resp: 1269

Ion	Ratio	Lower	Upper
101	100		
103	64.0	44.3	82.3
105	14.7	7.3	13.7#

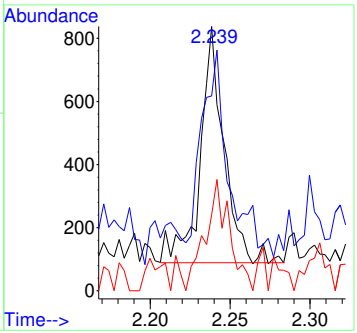


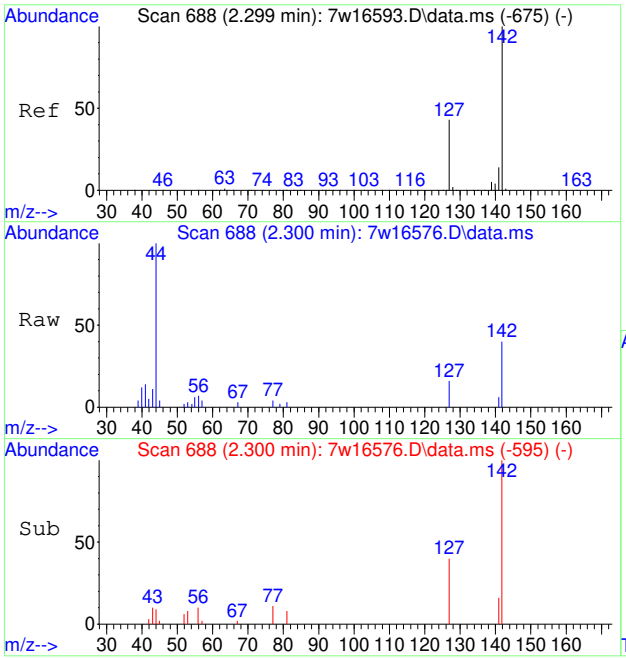


#24
PENTANE
Concen: 0.06 PPBV
RT: 2.239 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 42 Resp: 777

Ion	Ratio	Lower	Upper
42	100		
41	109.0	69.2	128.6
57	51.7	18.6	34.6#

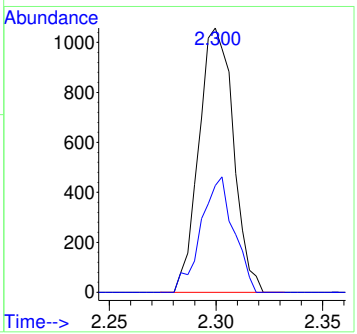


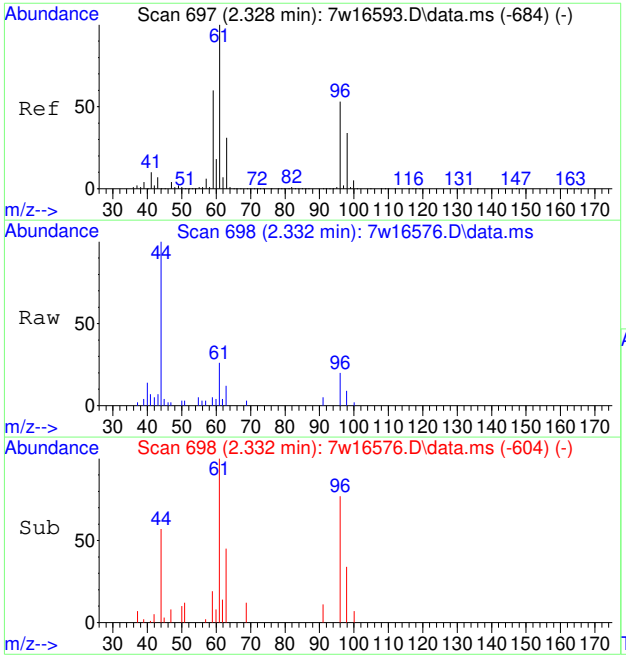


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:142 Resp: 1191

Ion	Ratio	Lower	Upper
142	100		
127	41.4	32.1	59.7

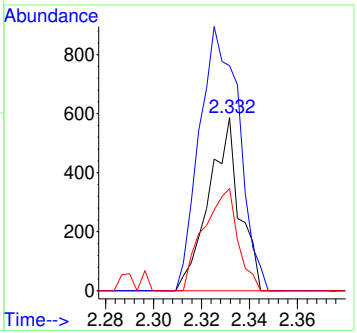


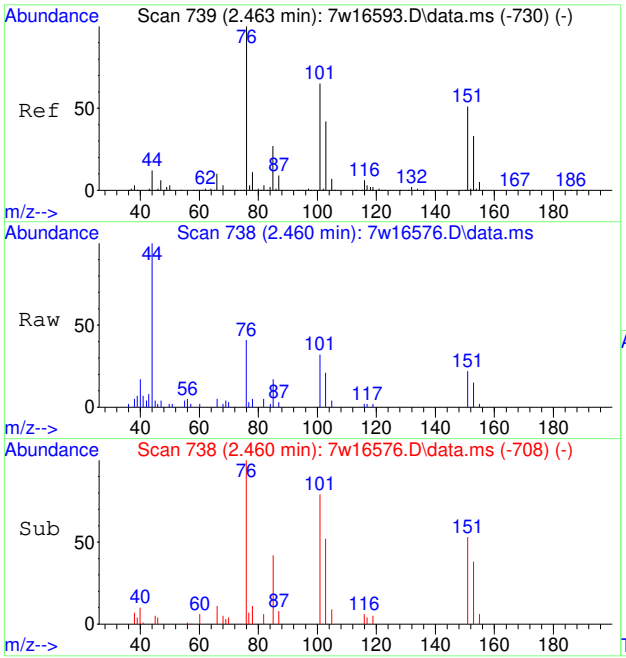


#26
1,1-DICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 2.332 min Scan# 698
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 522

Ion	Ratio	Lower	Upper
96	100		
61	196.4	98.3	182.5#
63	65.7	33.2	61.7#

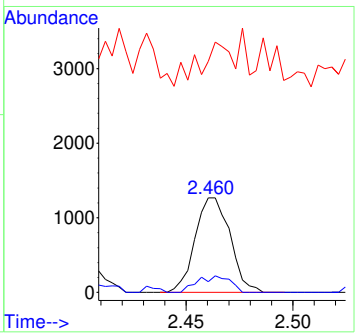


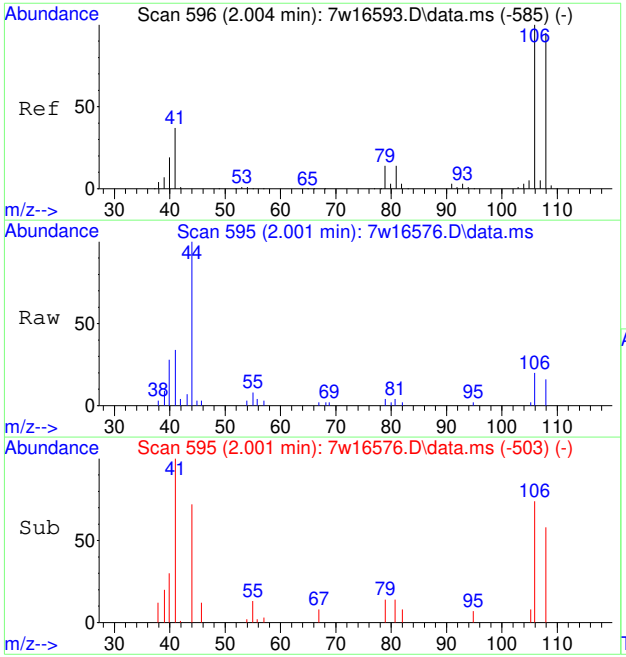


#27
CARBON DISULFIDE
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 1446

Ion	Ratio	Lower	Upper
76	100		
78	16.3	8.3	15.3#
44	85.3	13.0	24.1#

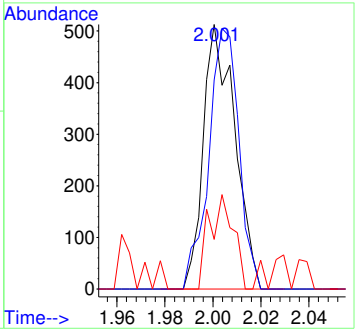


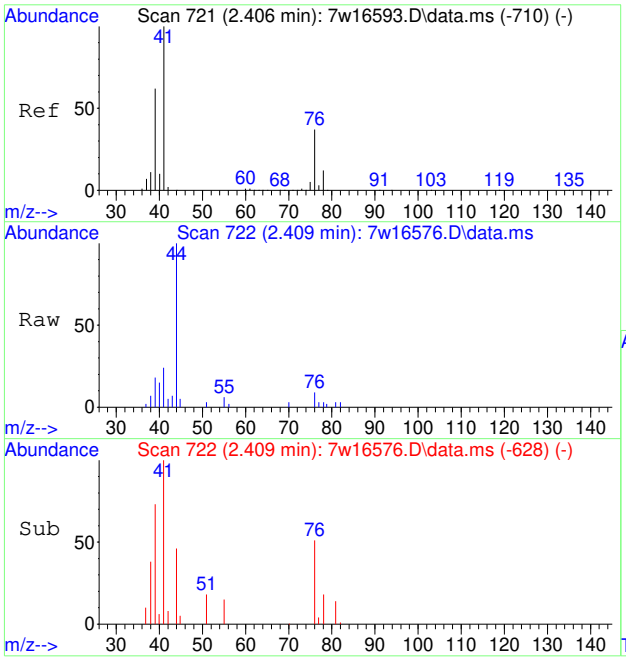


#29
BROMOETHENE
Concen: 0.04 PPBV
RT: 2.001 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:106 Resp: 466

Ion	Ratio	Lower	Upper
106	100		
108	94.2	68.3	126.8
81	29.8	14.7	27.3#

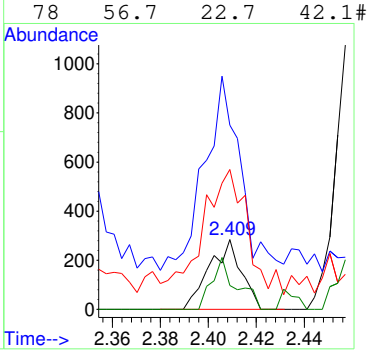


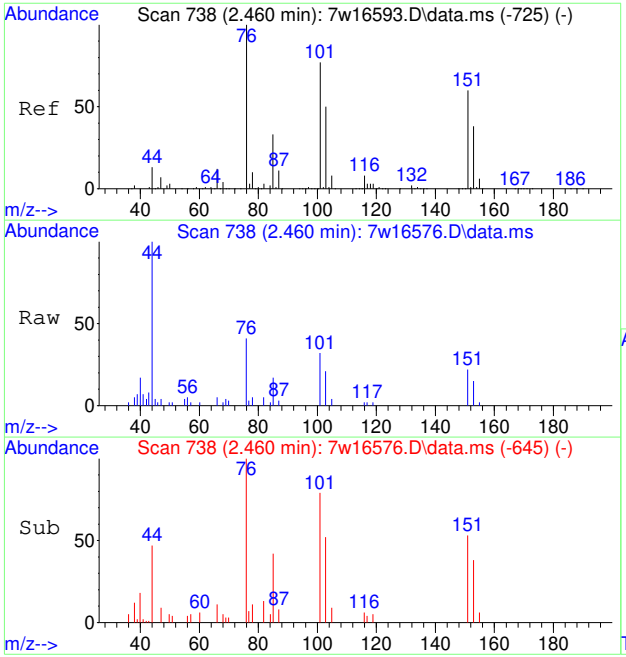


#32
3-CHLOROPROPENE
Concen: 0.04 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 263

Ion	Ratio	Lower	Upper
76	100		
41	309.5	160.9	298.9#
39	248.7	150.7	279.9
78	56.7	22.7	42.1#

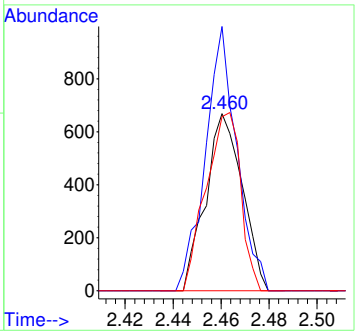


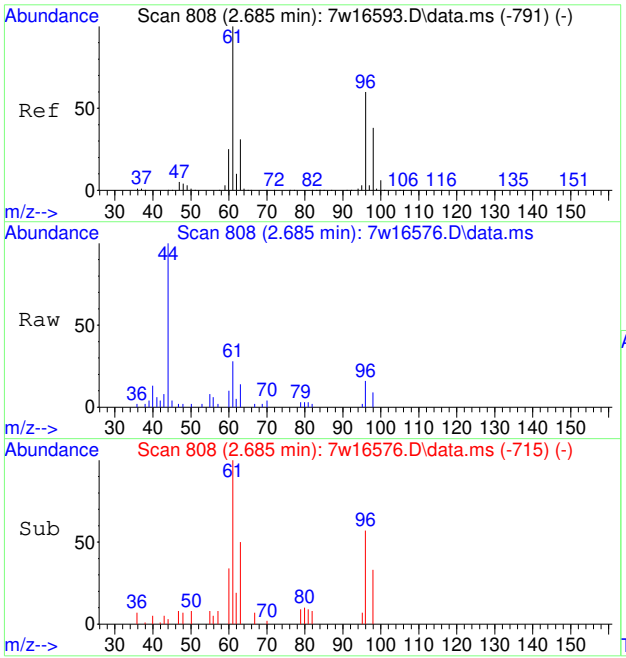


#33
FREON 113
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:151 Resp: 709

Ion	Ratio	Lower	Upper
151	100		
101	127.8	81.1	150.7
103	95.2	51.4	95.4

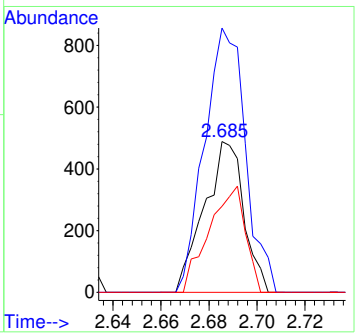


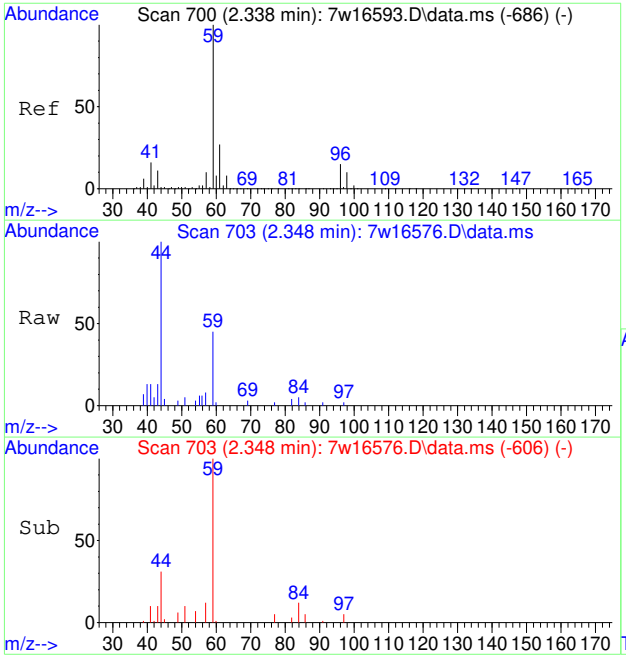


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 555

Ion	Ratio	Lower	Upper
96	100		
61	182.7	78.5	145.9#
98	65.2	46.5	86.3

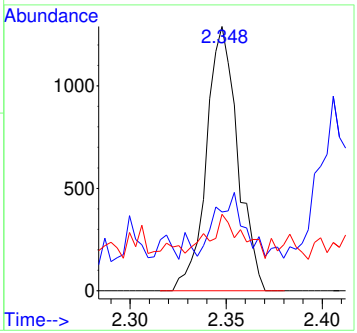


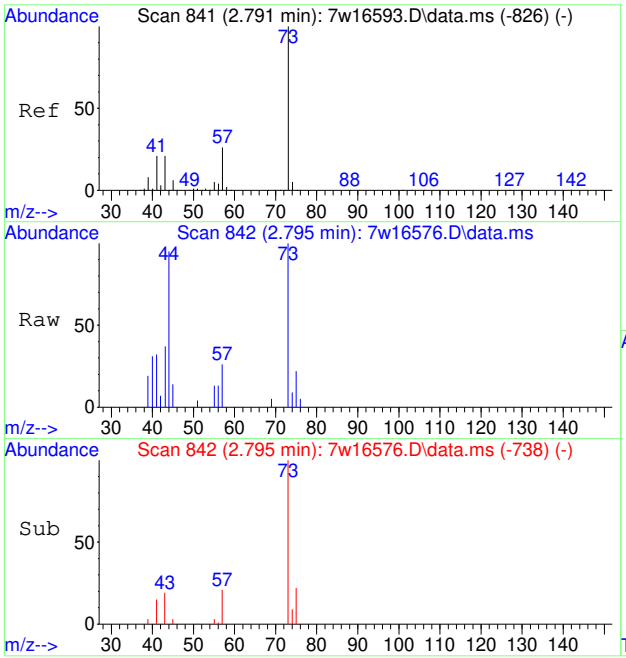


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.05 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 1458

Ion	Ratio	Lower	Upper
59	100		
41	32.6	15.3	28.5#
43	33.5	12.3	22.9#

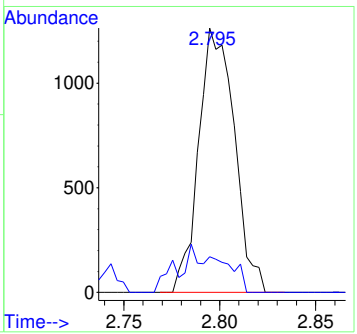


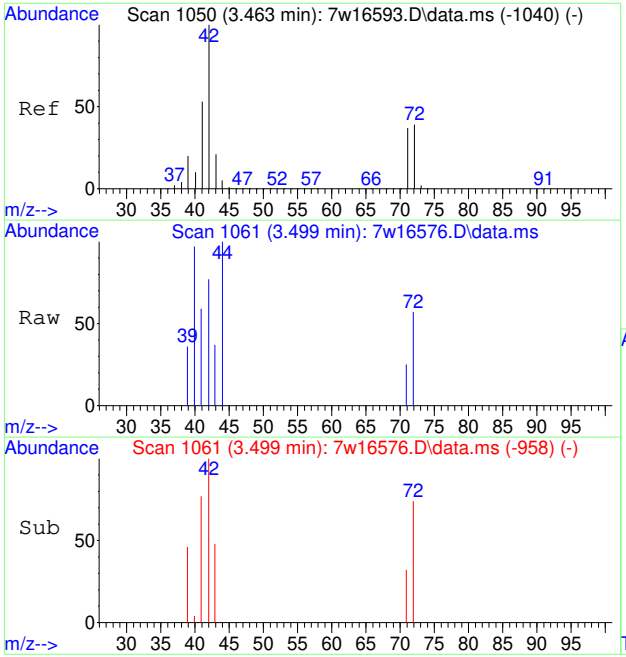


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.04 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 73 Resp: 1635

Ion	Ratio	Lower	Upper
73	100		
45	21.6	3.4	6.4#

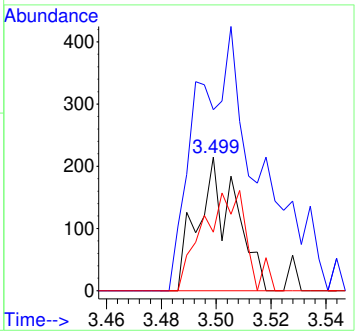


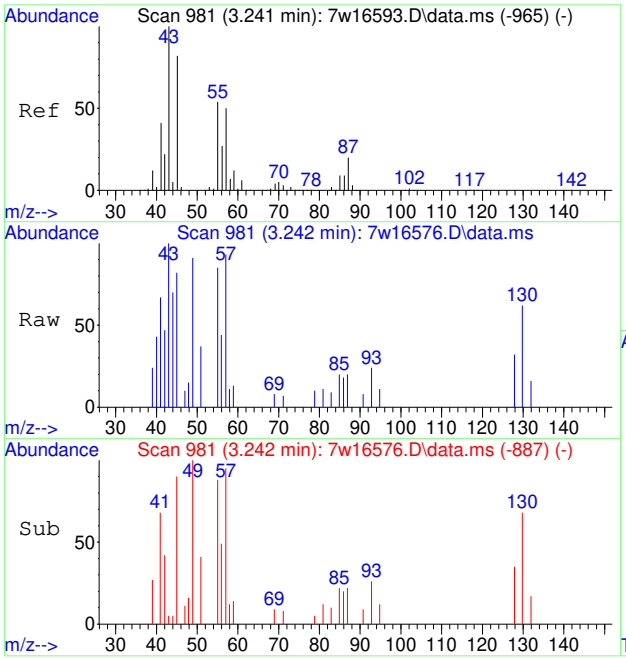


#37
TETRAHYDROFURAN
Concen: 0.03 PPBV
RT: 3.499 min Scan# 1061
Delta R.T. 0.032 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 205

Ion	Ratio	Lower	Upper
72	100		
42	334.1	153.0	284.2#
71	85.9	62.7	116.5

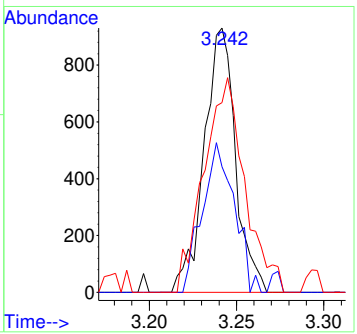


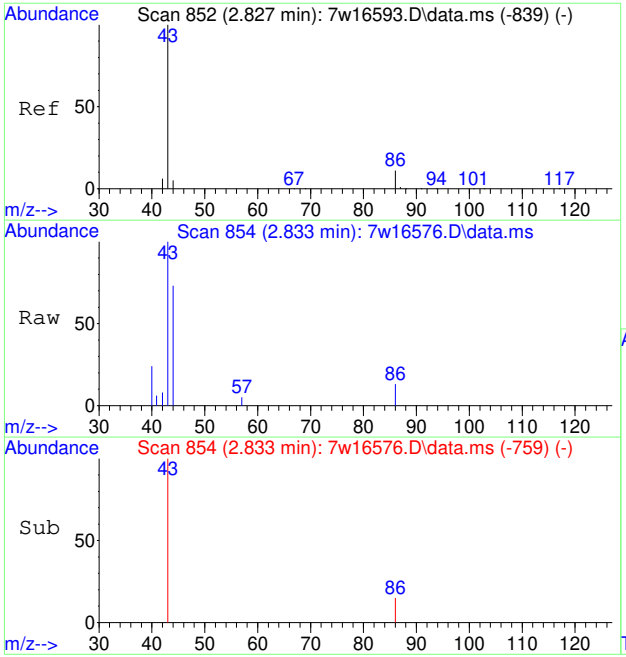


#38
HEXANE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1163

Ion	Ratio	Lower	Upper
57	100		
56	58.0	37.3	69.3
41	105.6	86.7	161.1

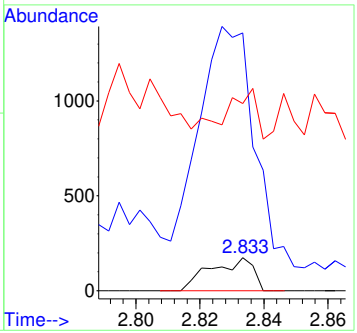


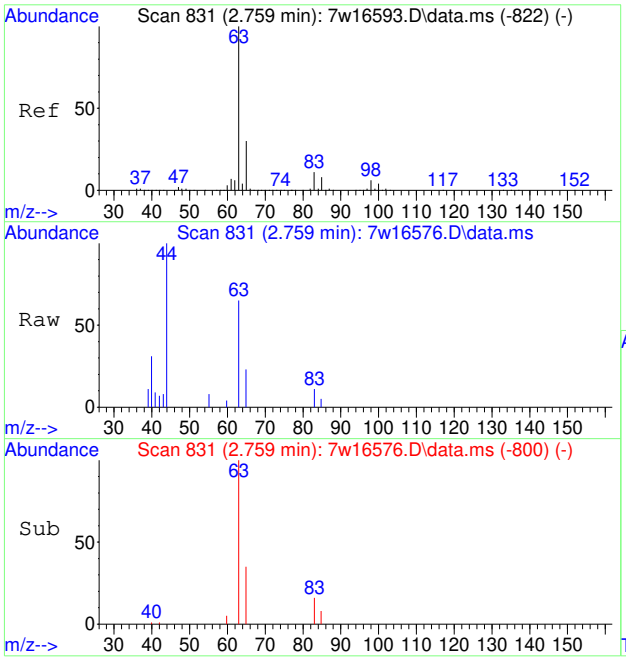


#39
VINYL ACETATE
Concen: 0.05 PPBV
RT: 2.833 min Scan# 854
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 86 Resp: 161

Ion	Ratio	Lower	Upper
86	100		
43	1339.1	667.9	1240.3#
44	80.7	32.7	60.7#

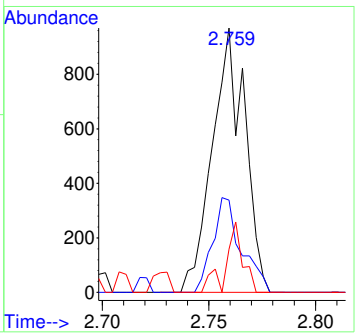


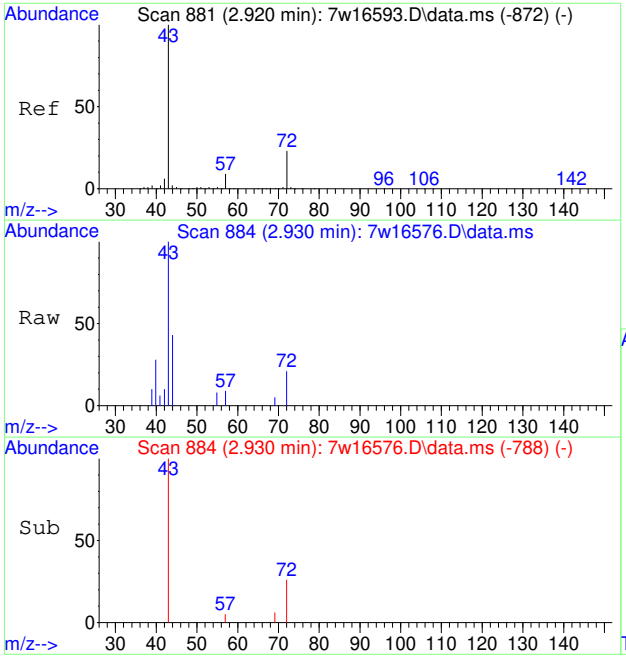


#40
1,1-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 1028

Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.8	40.6
83	14.1	10.6	19.6

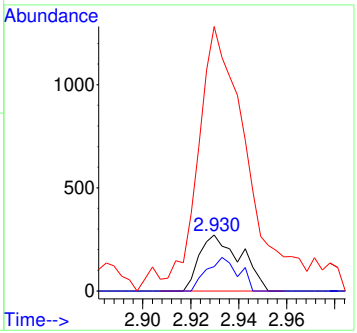


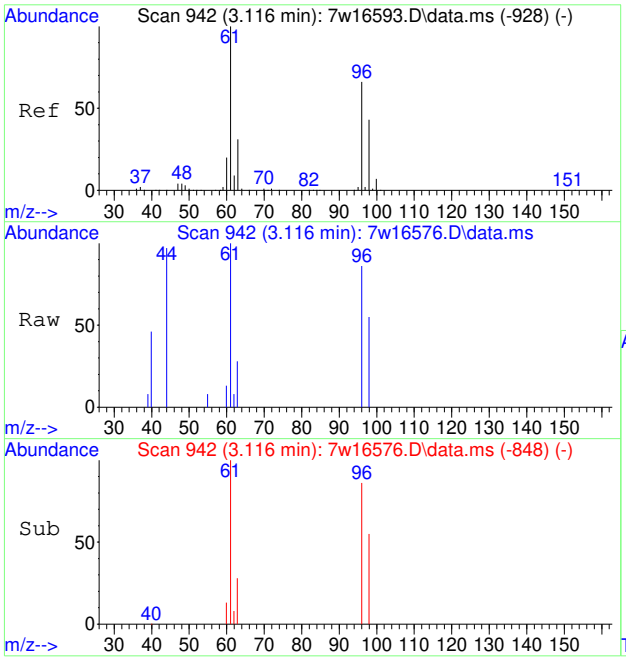


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV
RT: 2.930 min Scan# 884
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 323

Ion	Ratio	Lower	Upper
72	100		
57	45.8	20.3	37.7#
43	590.4	282.8	525.2#

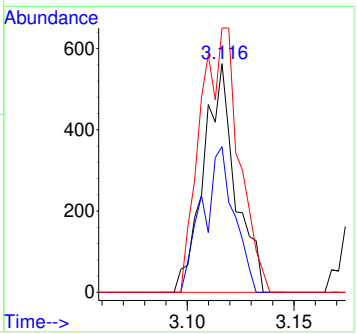


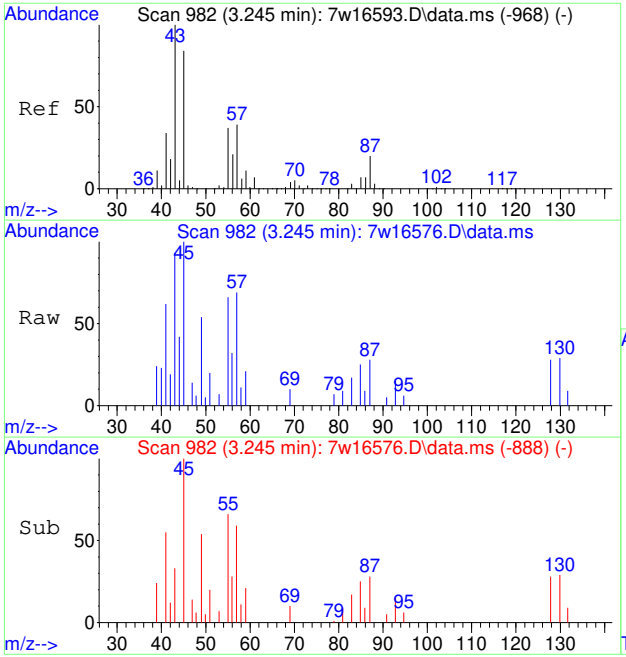


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 586

Ion	Ratio	Lower	Upper
96	100		
98	63.0	46.8	86.8
61	140.8	78.3	145.5

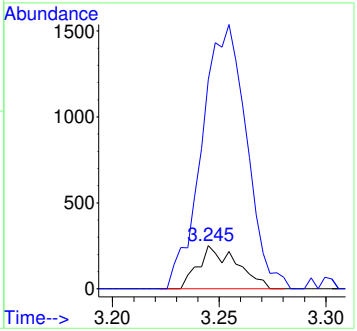


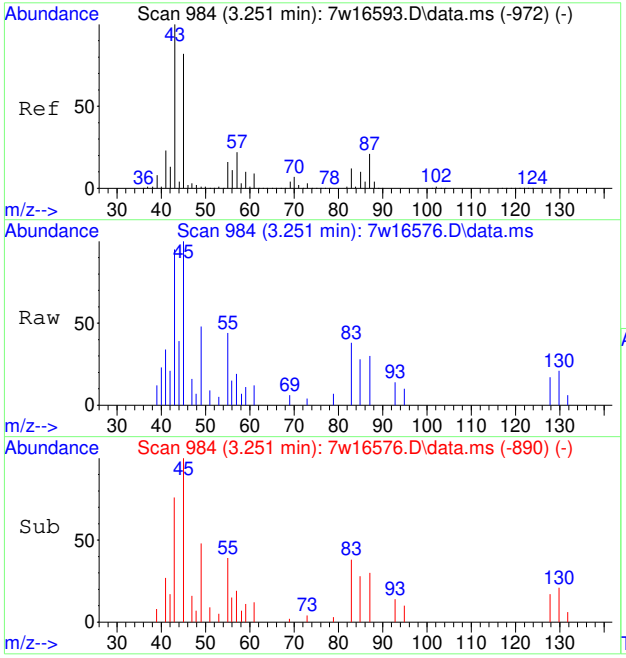


#43
DIISOPROPYL ETHER
Concen: 0.05 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 314

Ion	Ratio	Lower	Upper
59	100		
45	714.3	532.1	988.1

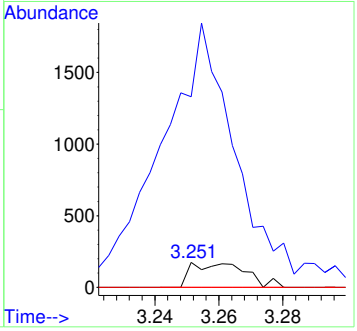


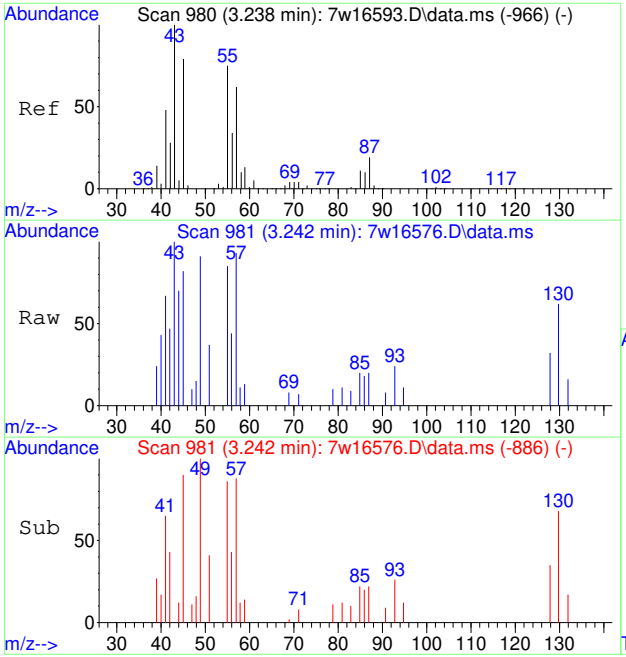


#44
ETHYL ACETATE
Concen: 0.04 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 61 Resp: 203

Ion	Ratio	Lower	Upper
61	100		
43	1613.8	1127.5	2093.9
88	0.0	36.2	67.2#

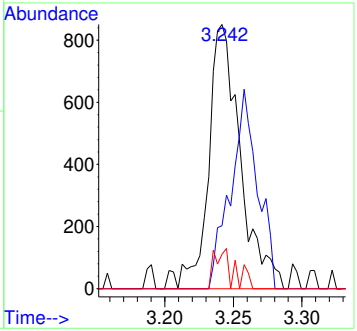


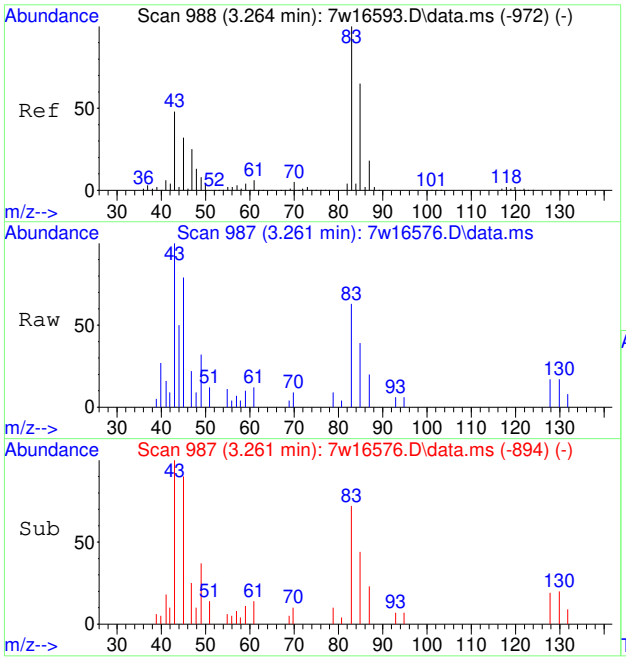


#45
METHYL ACRYLATE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1383

Ion	Ratio	Lower	Upper
55	100		
85	63.6	0.0	0.0#
58	7.4	9.2	17.0#

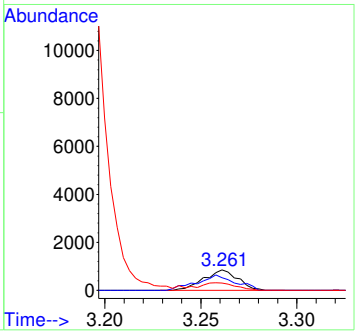


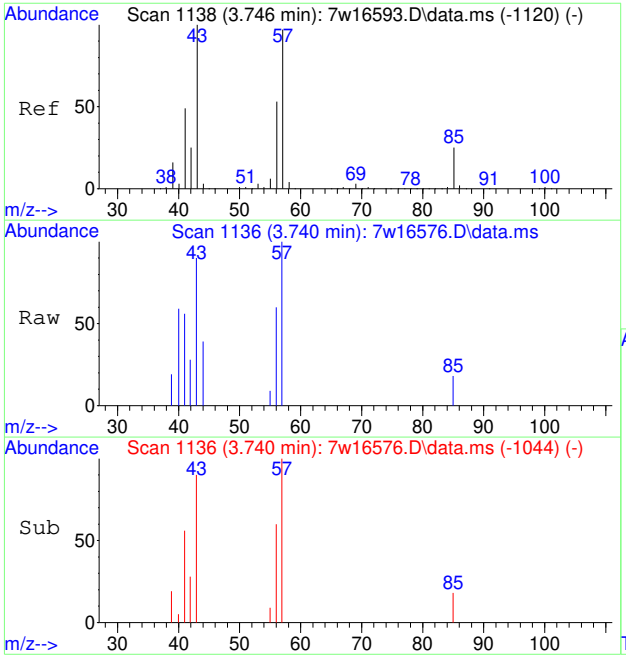


#46
CHLOROFORM
Concen: 0.04 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1053

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	44.6	17.9	33.3#

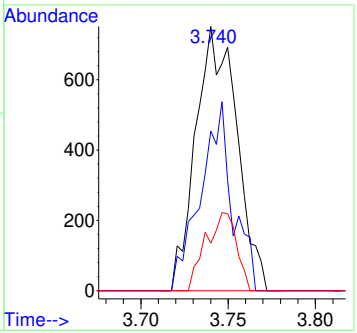


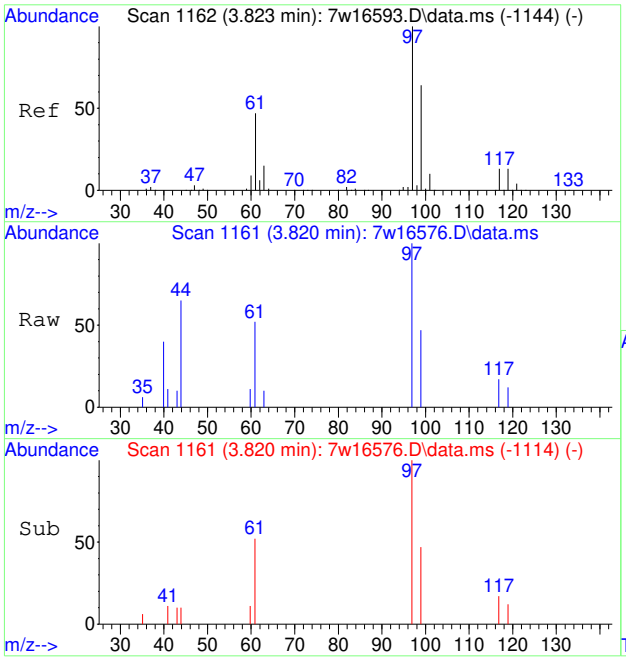


#47
2,4-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1228

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	22.1	24.1	44.7#

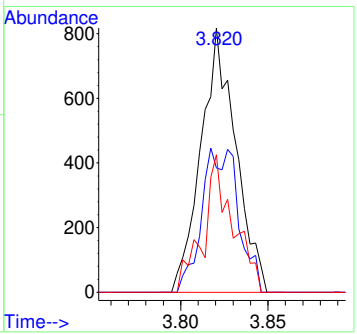


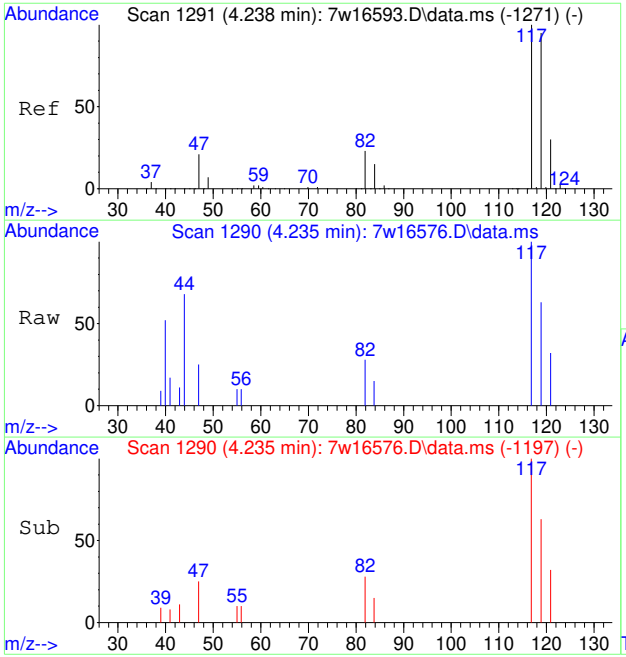


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 97 Resp: 1132

Ion	Ratio	Lower	Upper
97	100		
99	57.4	44.9	83.5
61	44.7	28.6	53.0

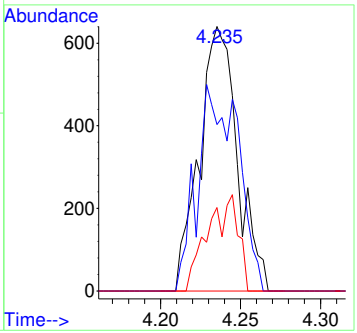


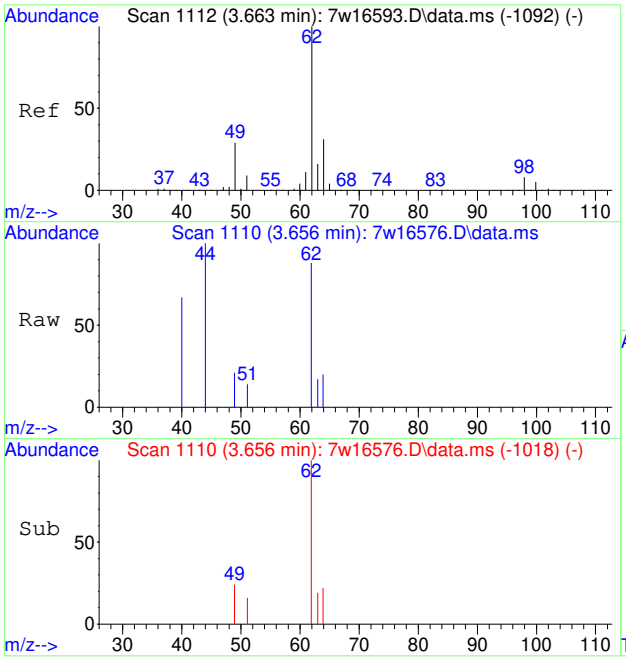


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 1061

Ion	Ratio	Lower	Upper
117	100		
119	83.8	68.8	127.8
121	29.1	22.2	41.2

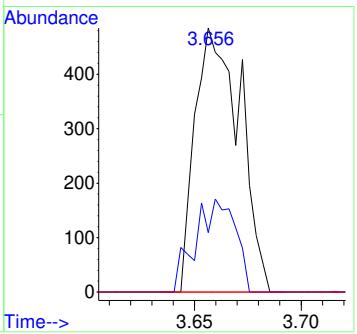


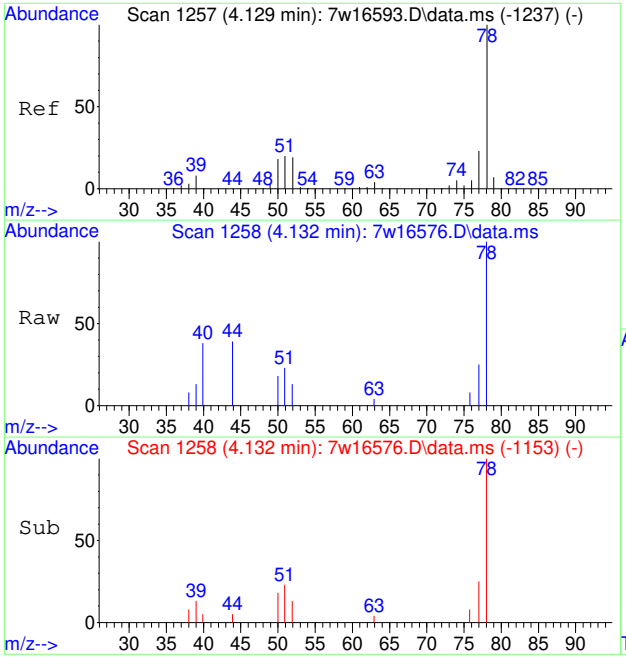


#50
1,2-DICHLOROETHANE
Concen: 0.03 PPBV
RT: 3.656 min Scan# 1110
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 712

Ion	Ratio	Lower	Upper
62	100		
64	31.3	22.5	41.7
98	0.0	6.8	12.6#

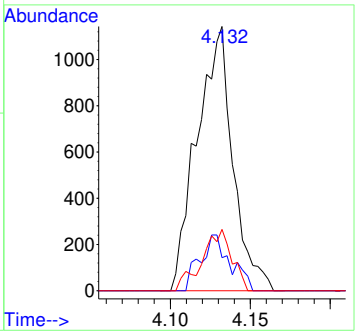


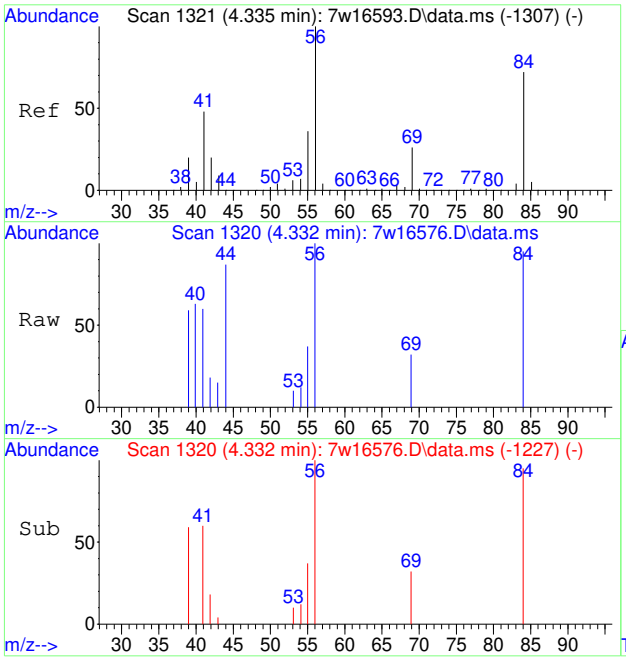


#51
BENZENE
Concen: 0.05 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 78 Resp: 1781

Ion	Ratio	Lower	Upper
78	100		
52	17.9	0.0	44.6
51	19.4	0.0	47.3

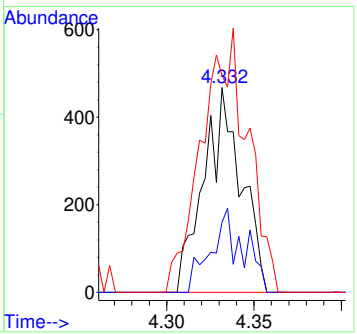


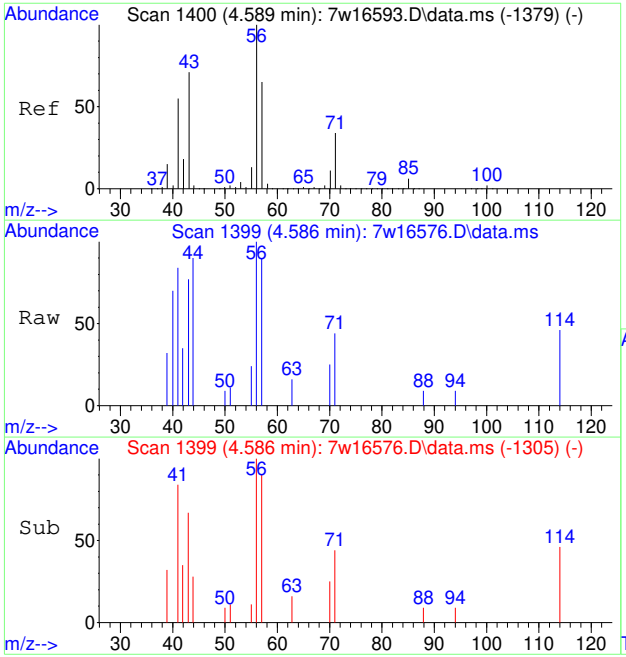


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 84 Resp: 700

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	156.6	70.2	130.4#

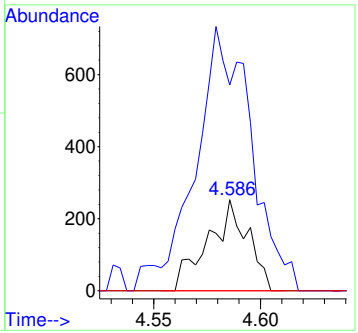


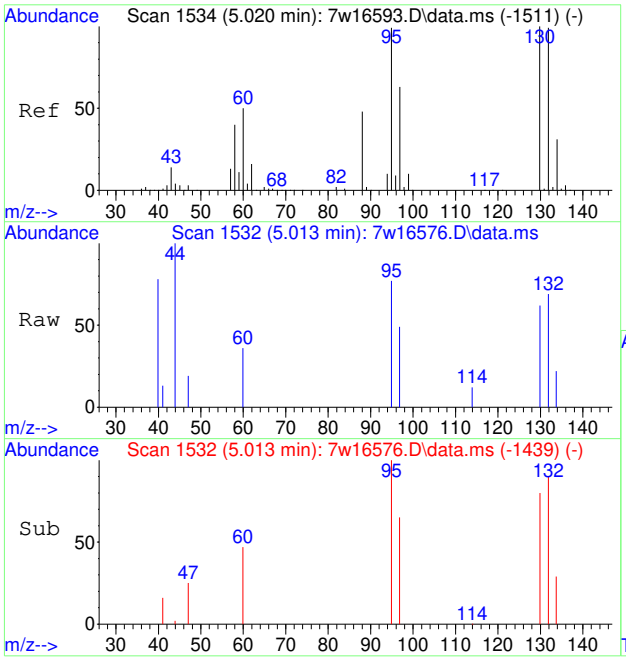


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 71 Resp: 330

Ion	Ratio	Lower	Upper
71	100		
56	412.7	171.4	318.4#
85	0.0	12.6	23.4#

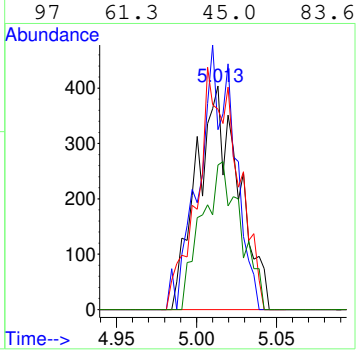


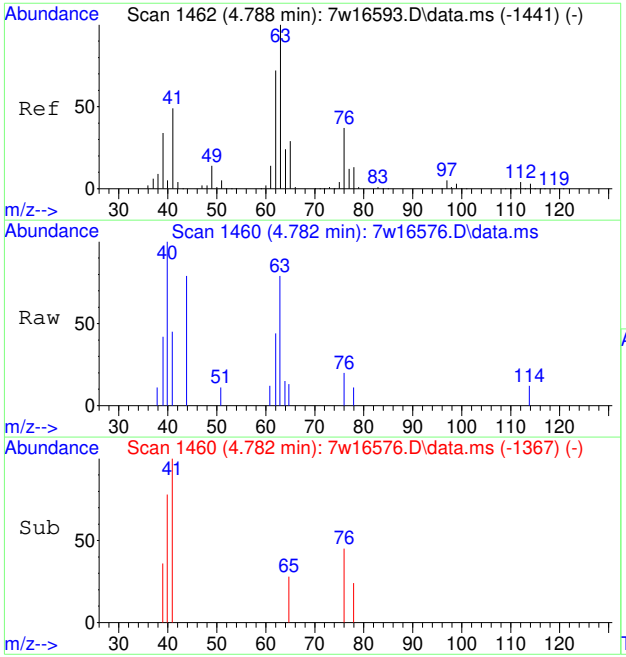


#55
TRICHLOROETHENE
Concen: 0.04 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 95 Resp: 741

Ion	Ratio	Lower	Upper
95	100		
130	98.4	85.9	159.5
132	101.9	79.4	147.4
97	61.3	45.0	83.6

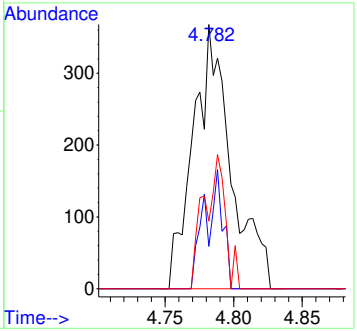


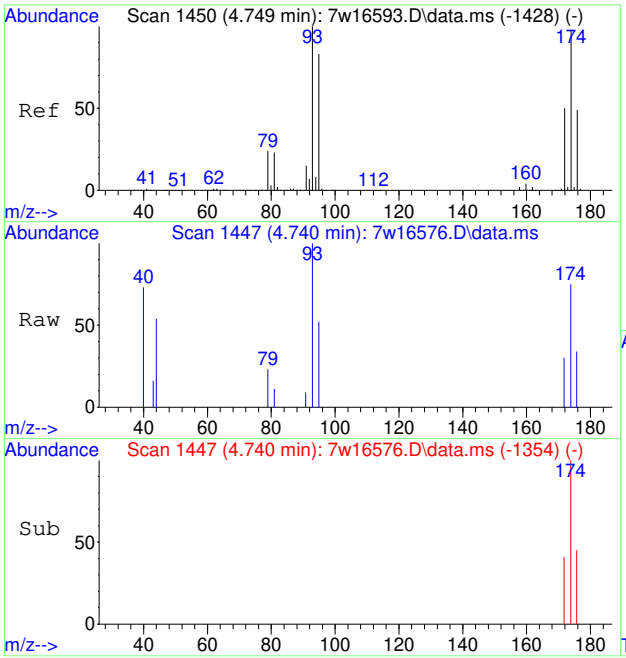


#56
1,2-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 703

Ion	Ratio	Lower	Upper
63	100		
65	21.5	22.6	42.0#
76	28.7	31.8	59.0#

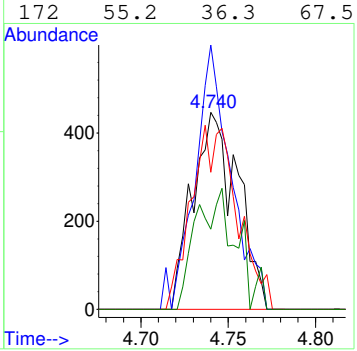


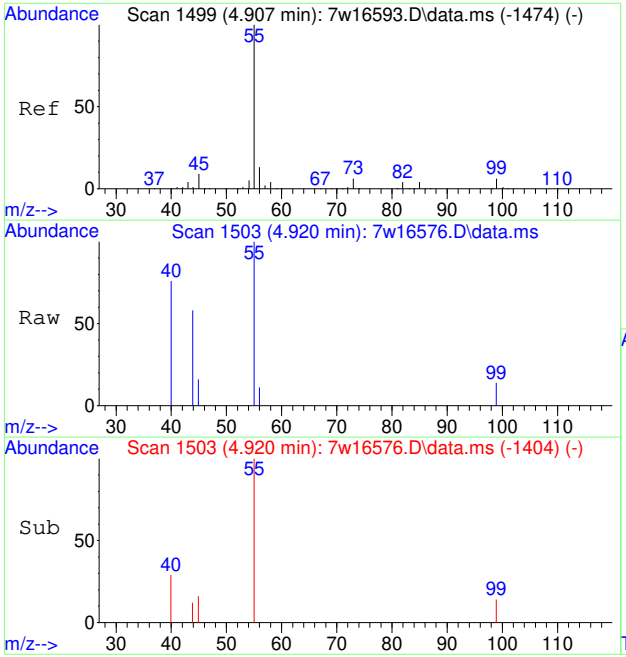


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:174 Resp: 802

Ion	Ratio	Lower	Upper
174	100		
93	108.0	67.3	125.1
95	95.5	56.8	105.6
172	55.2	36.3	67.5

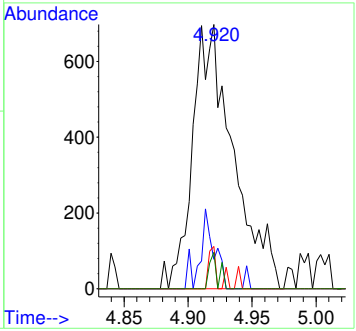


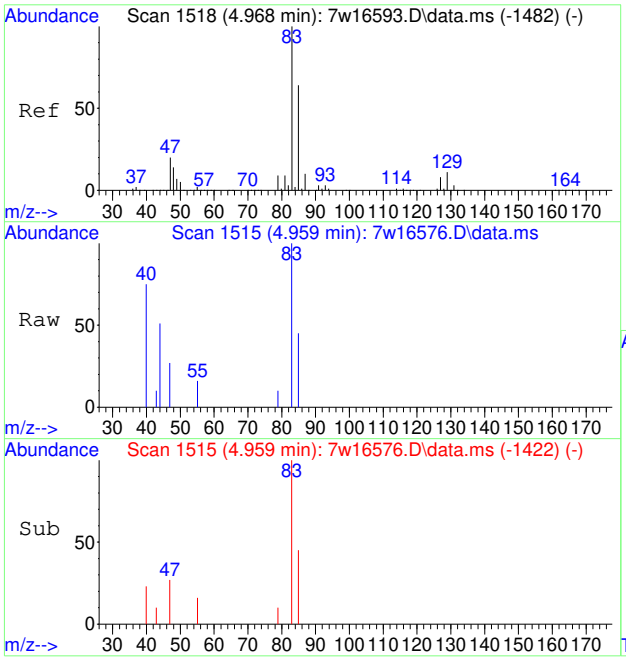


#58
ETHYL ACRYLATE
Concen: 0.04 PPBV
RT: 4.920 min Scan# 1503
Delta R.T. 0.020 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1547

Ion	Ratio	Lower	Upper
55	100		
56	10.5	7.9	14.7
45	4.1	6.6	12.2#
99	0.0	6.2	11.6#

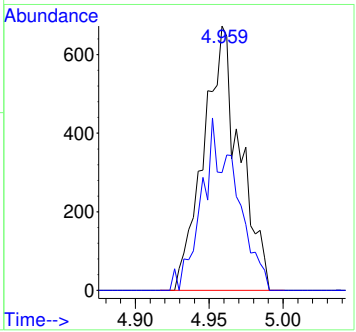


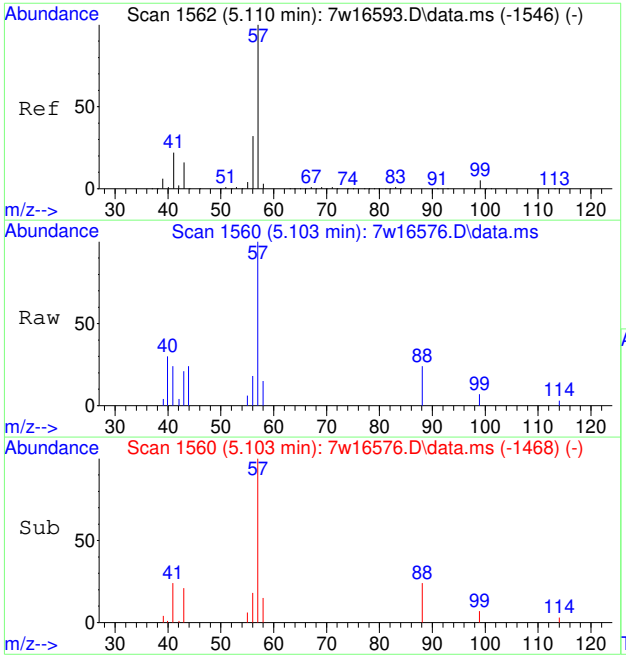


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1145

Ion	Ratio	Lower	Upper
83	100		
85	62.1	44.9	83.5

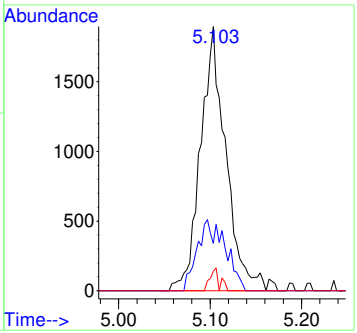


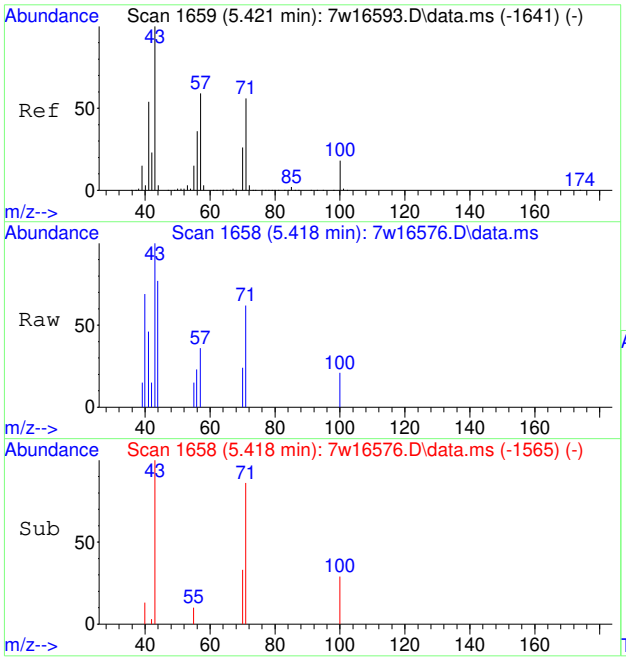


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 3683

Ion	Ratio	Lower	Upper
57	100		
56	29.4	24.4	45.2
99	3.2	5.2	9.6#

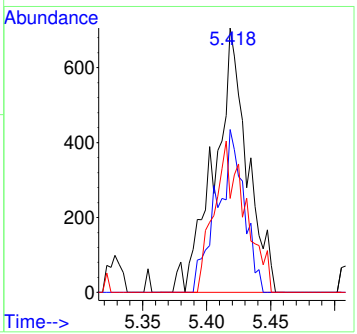


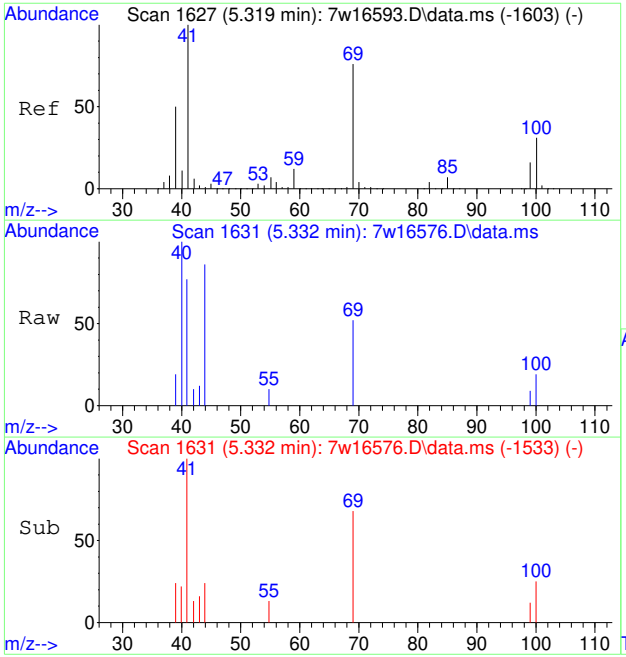


#62
HEPTANE
Concen: 0.05 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1262

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	54.4	37.2	69.0

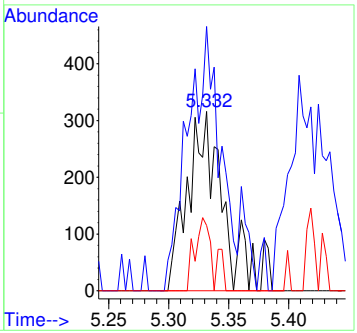


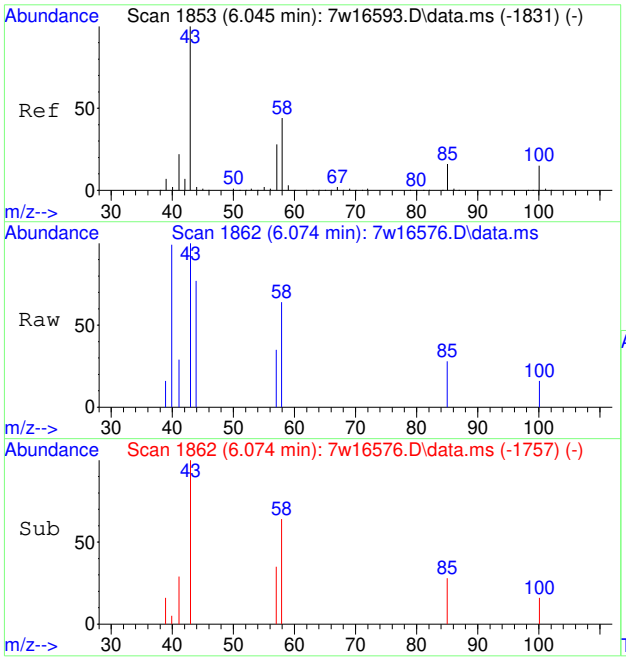


#63
METHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 5.332 min Scan# 1631
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 659

Ion	Ratio	Lower	Upper
69	100		
41	150.2	84.3	156.5
100	20.9	30.8	57.2#

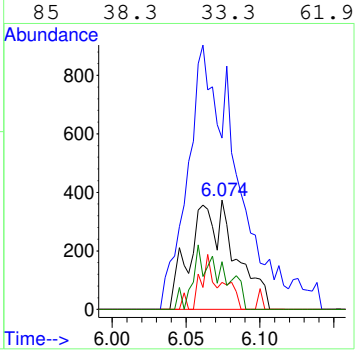


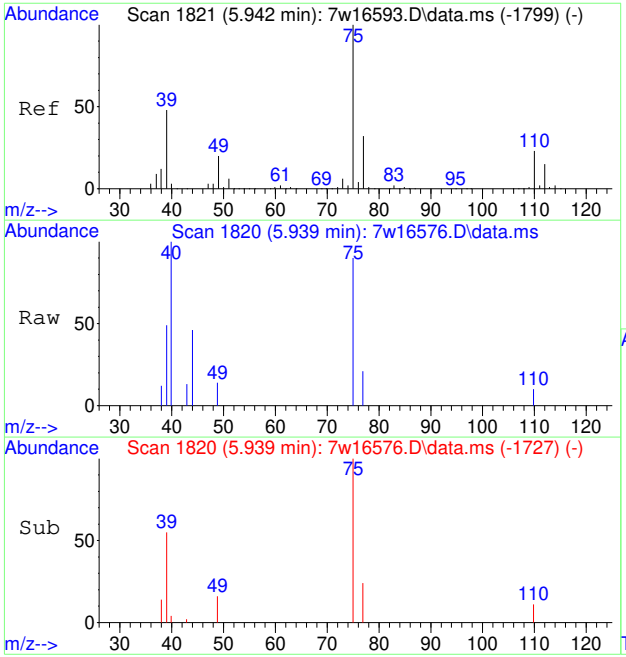


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 6.074 min Scan# 1862
Delta R.T. 0.039 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 776

Ion	Ratio	Lower	Upper
58	100		
43	276.2	193.8	360.0
100	23.3	32.8	60.8#
85	38.3	33.3	61.9

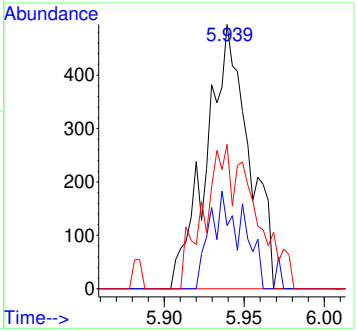


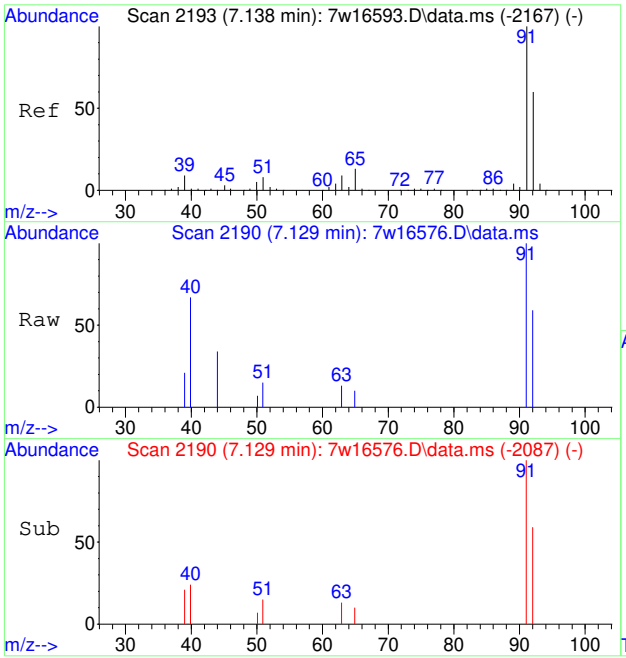


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 908

Ion	Ratio	Lower	Upper
75	100		
77	28.3	22.0	40.8
39	65.5	38.5	71.5

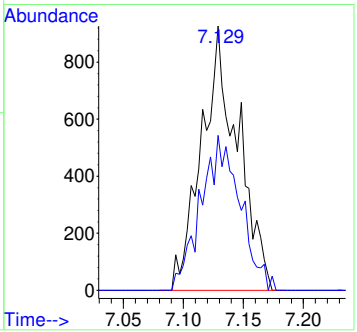


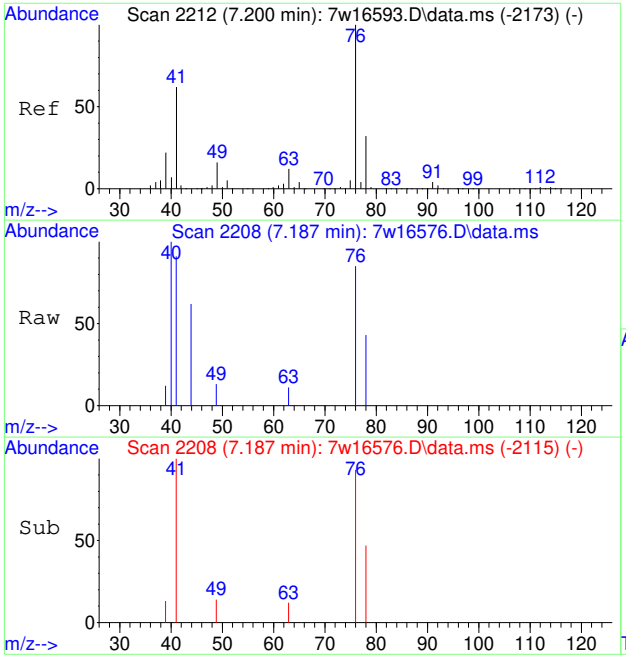


#66
TOLUENE
Concen: 0.04 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1961

Ion	Ratio	Lower	Upper
91	100		
92	62.6	28.1	88.1

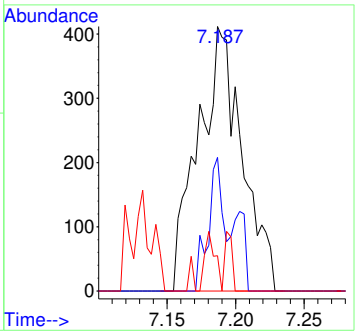


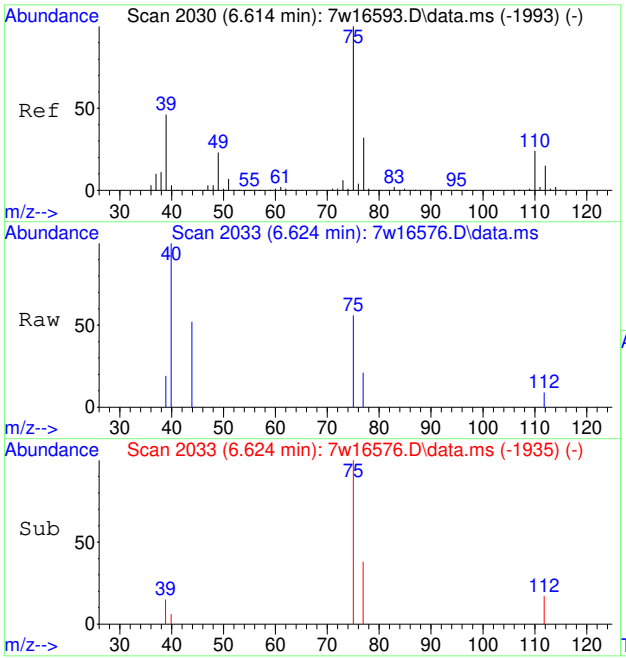


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 917

Ion	Ratio	Lower	Upper
76	100		
78	26.3	22.1	41.1
63	6.5	8.0	14.8#

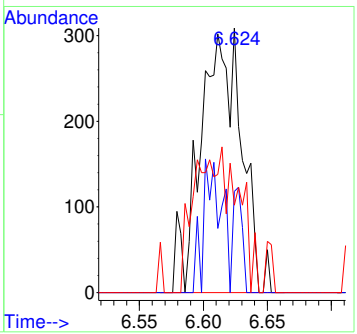


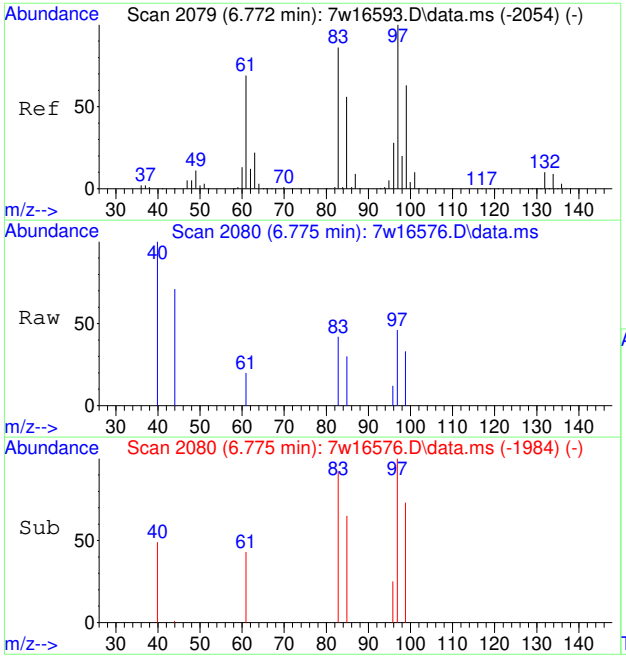


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 6.624 min Scan# 2033
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 685

Ion	Ratio	Lower	Upper
75	100		
77	0.0	22.5	41.7#
39	59.0	37.2	69.0

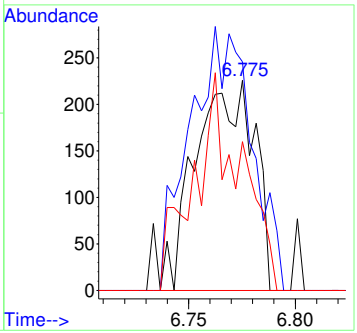


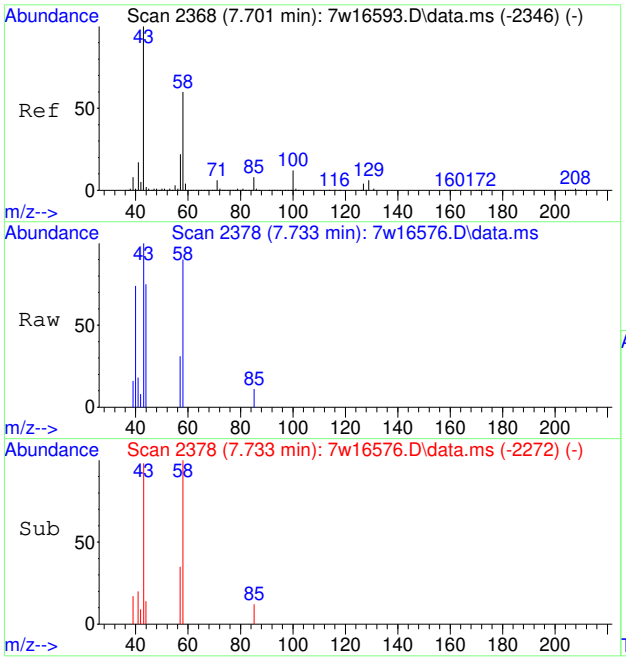


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 6.775 min Scan# 2080
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 432

Ion	Ratio	Lower	Upper
83	100		
97	131.5	86.7	160.9
85	82.9	45.5	84.5

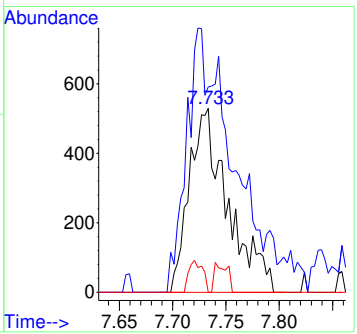


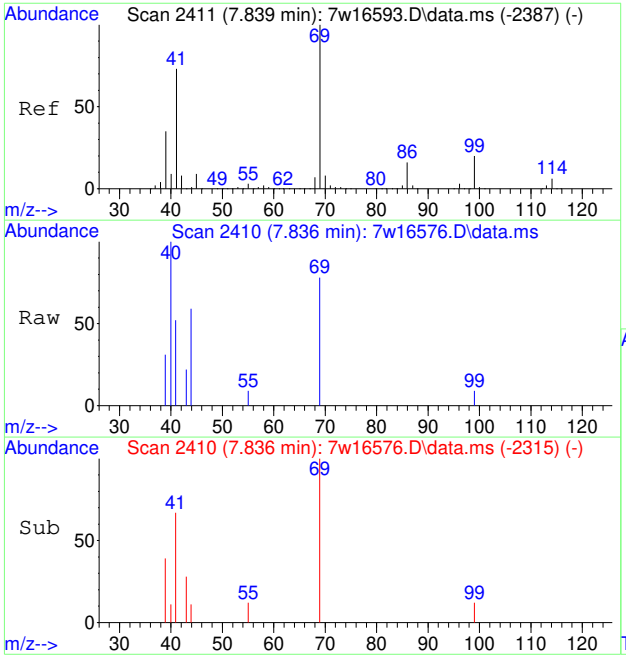


#70
2-HEXANONE
Concen: 0.06 PPBV
RT: 7.733 min Scan# 2378
Delta R.T. 0.042 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 1334

Ion	Ratio	Lower	Upper
58	100		
43	0.0	141.7	263.3#
100	5.2	18.9	35.1#

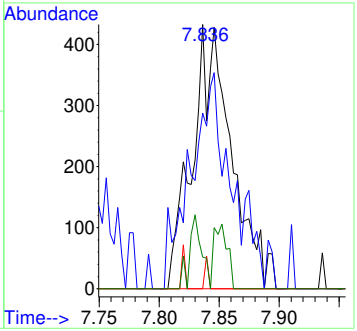


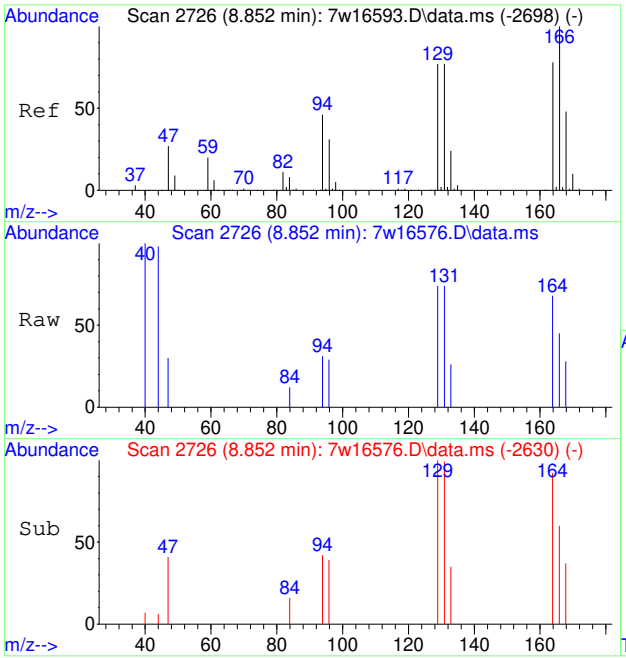


#71
ETHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 991

Ion	Ratio	Lower	Upper
69	100		
41	0.0	49.3	91.6#
86	0.0	11.6	21.6#
99	8.7	13.4	24.8#

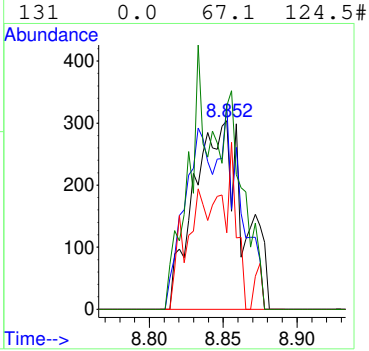


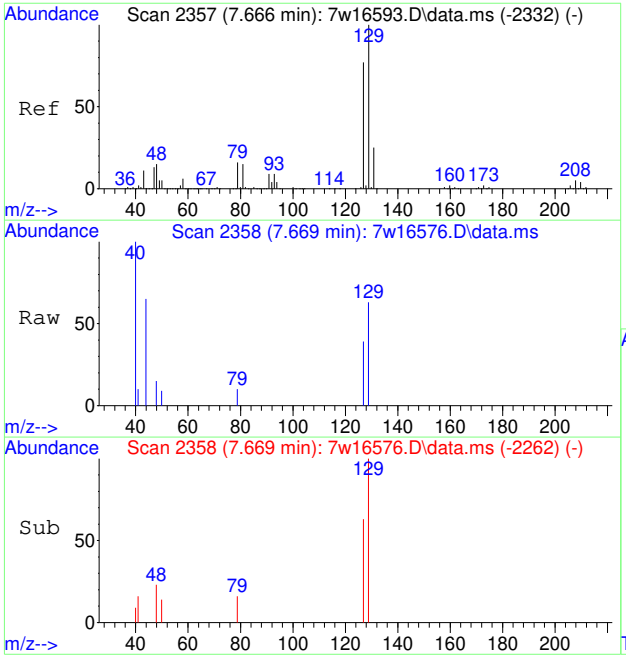


#72
TETRACHLOROETHENE
Concen: 0.04 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:164 Resp: 707

Ion	Ratio	Lower	Upper
164	100		
129	101.7	69.7	129.5
168	63.5	43.4	80.6
131	0.0	67.1	124.5#

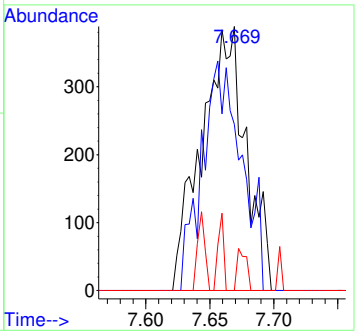


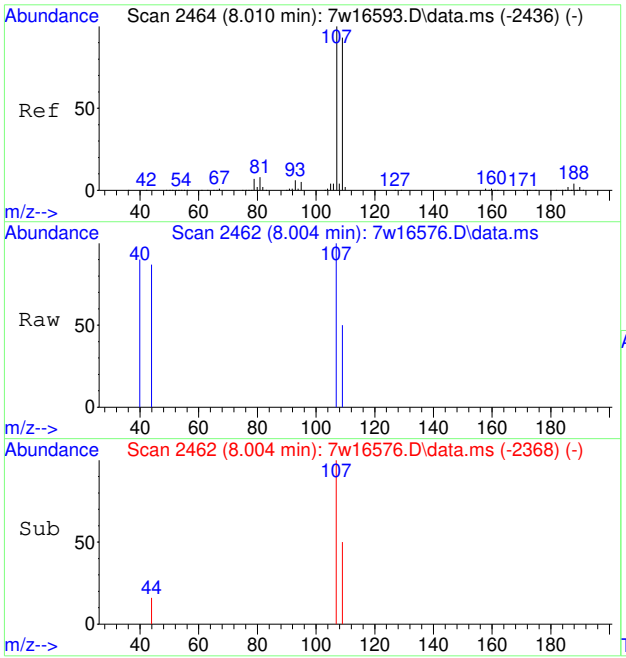


#73
DIBROMOCHLOROMETHANE
Concen: 0.03 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:129 Resp: 938

Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.0	98.4#
131	0.0	16.9	31.3#

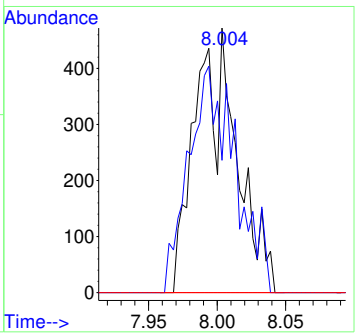


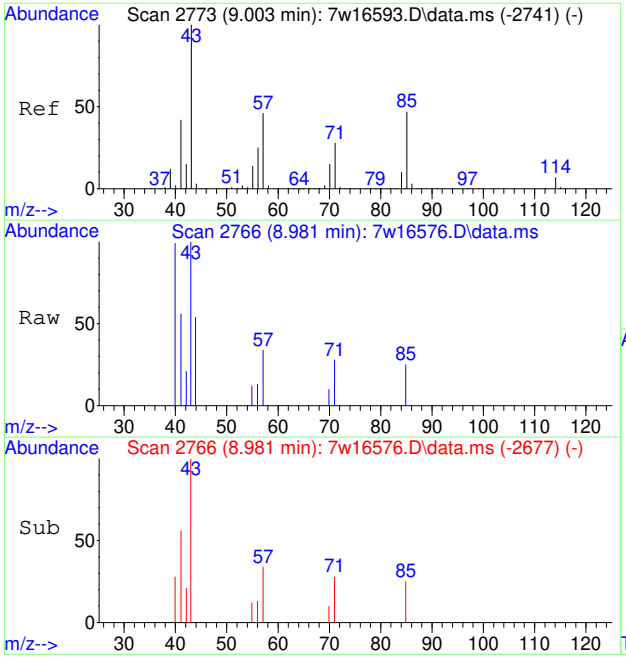


#74
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 8.004 min Scan# 2462
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:107 Resp: 998

Ion	Ratio	Lower	Upper
107	100		
109	95.5	65.7	122.1
188	0.0	2.4	4.4#

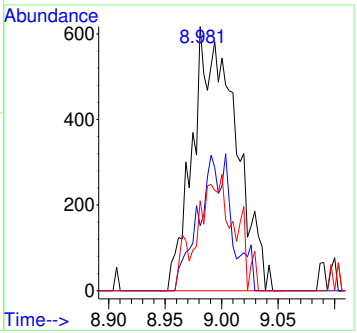


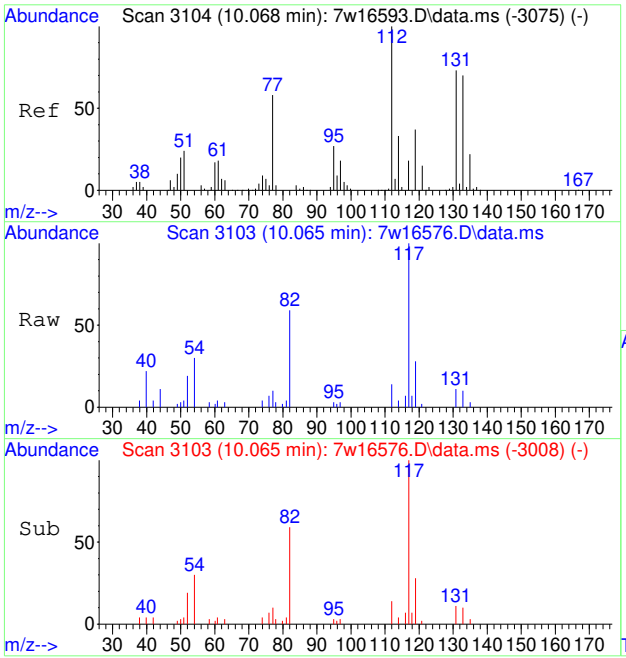


#75
OCTANE
Concen: 0.04 PPBV
RT: 8.981 min Scan# 2766
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1632

Ion	Ratio	Lower	Upper
43	100		
85	0.0	36.5	67.9#
57	0.0	27.6	51.2#

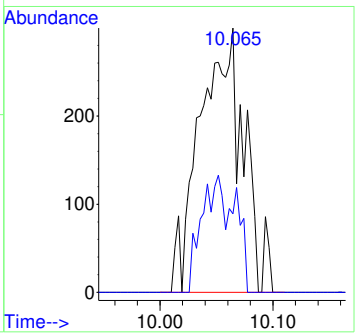


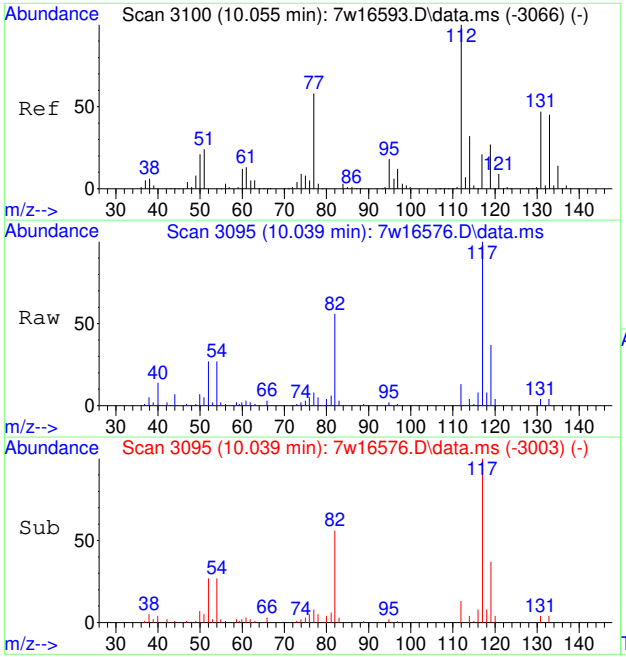


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 10.065 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:131 Resp: 804

Ion	Ratio	Lower	Upper
131	100		
95	33.6	23.7	43.9

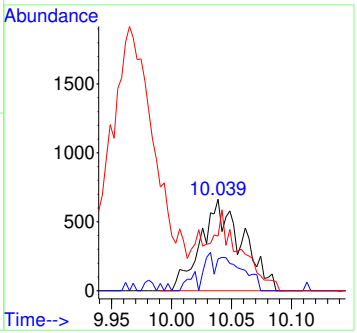


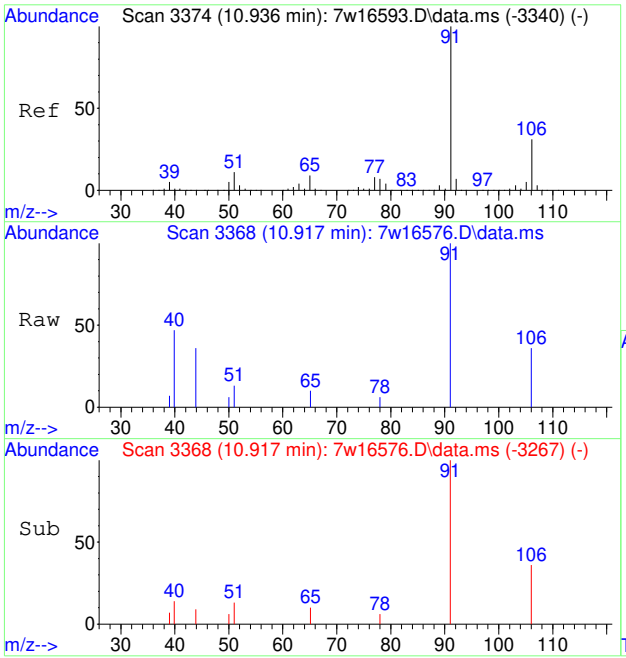


#78
CHLOROBENZENE
Concen: 0.04 PPBV
RT: 10.039 min Scan# 3095
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:112 Resp: 1584

Ion	Ratio	Lower	Upper
112	100		
114	37.2	22.9	42.5
77	74.4	34.4	63.8#

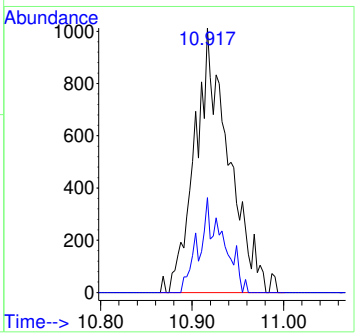


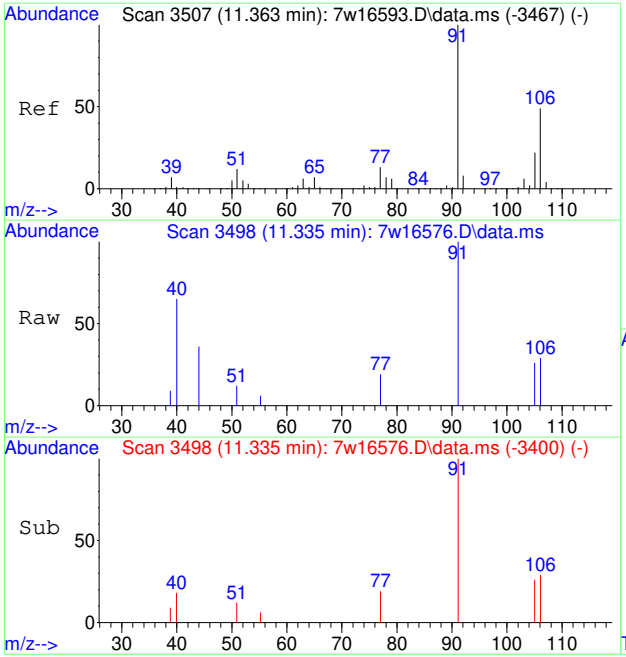


#79
ETHYLBENZENE
Concen: 0.04 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2610

Ion	Ratio	Lower	Upper
91	100		
106	25.6	2.8	62.8

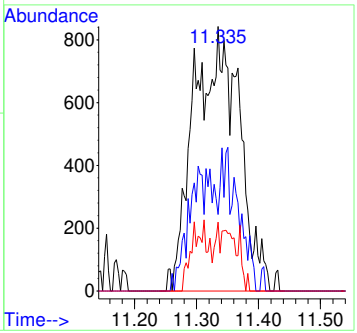


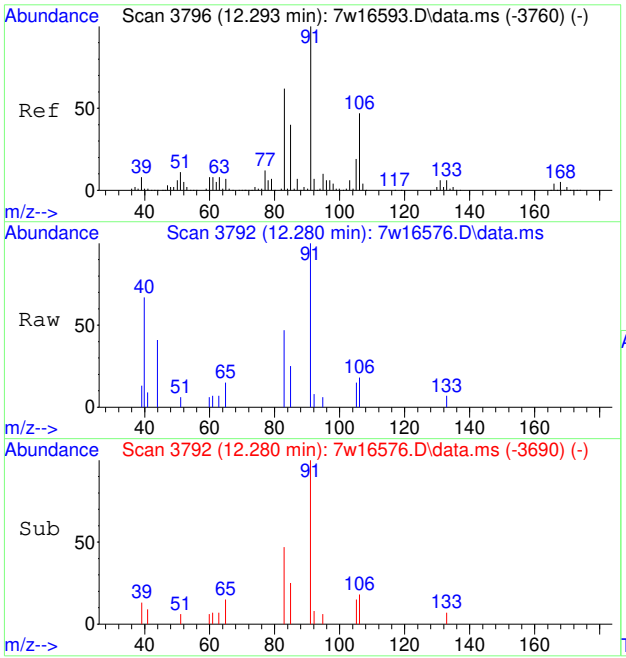


#80
M,P-XYLENE
Concen: 0.08 PPBV
RT: 11.335 min Scan# 3498
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 4291

Ion	Ratio	Lower	Upper
91	100		
106	22.1	0.0	58.7
105	11.4	0.0	43.2

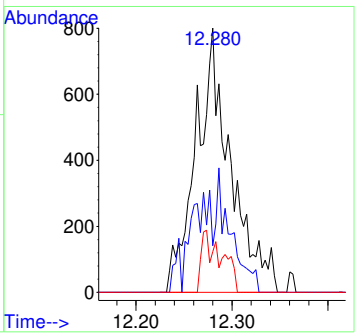


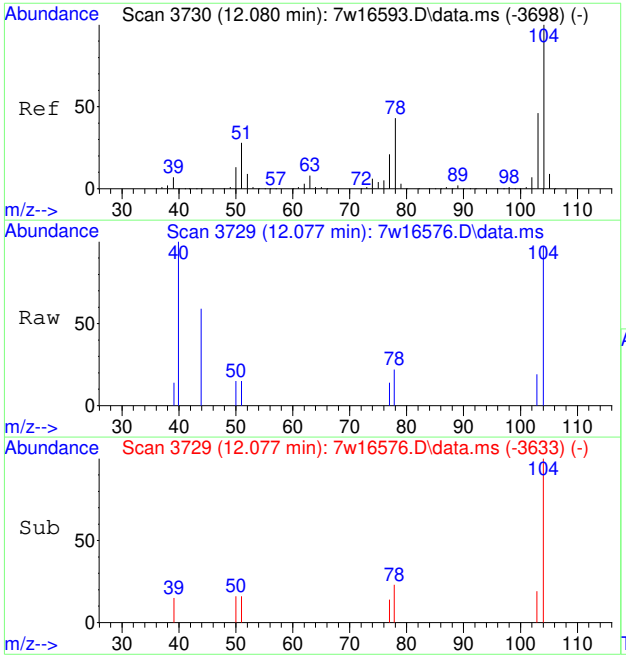


#81
O-XYLENE
Concen: 0.04 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2009

Ion	Ratio	Lower	Upper
91	100		
106	17.6	34.1	63.3#
105	15.4	14.6	27.2

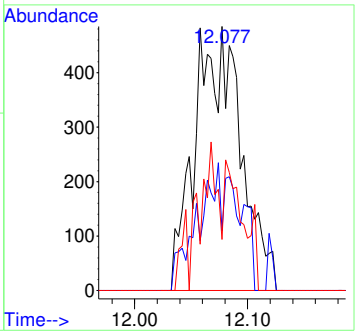


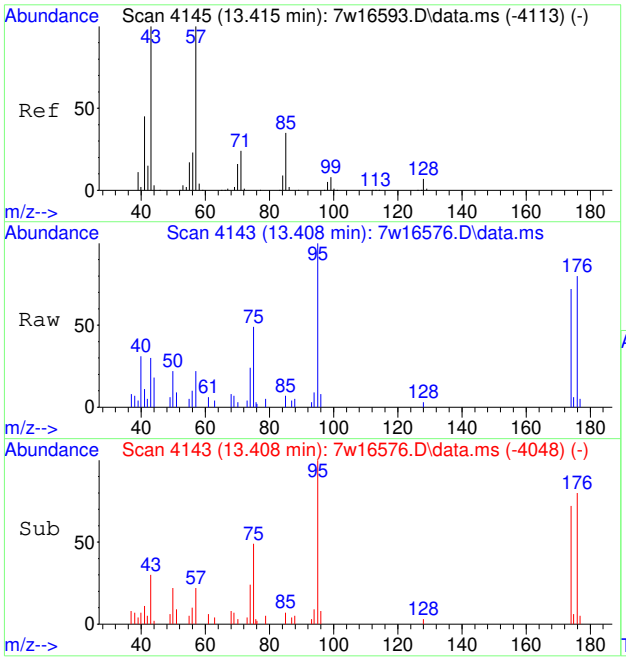


#82
STYRENE
Concen: 0.04 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:104 Resp: 1372

Ion	Ratio	Lower	Upper
104	100		
78	43.2	25.3	46.9
103	46.0	33.2	61.7

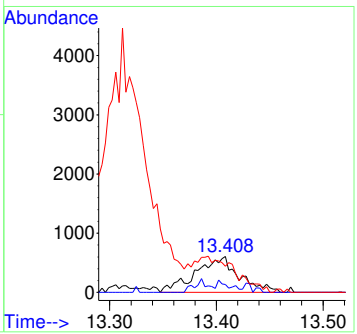


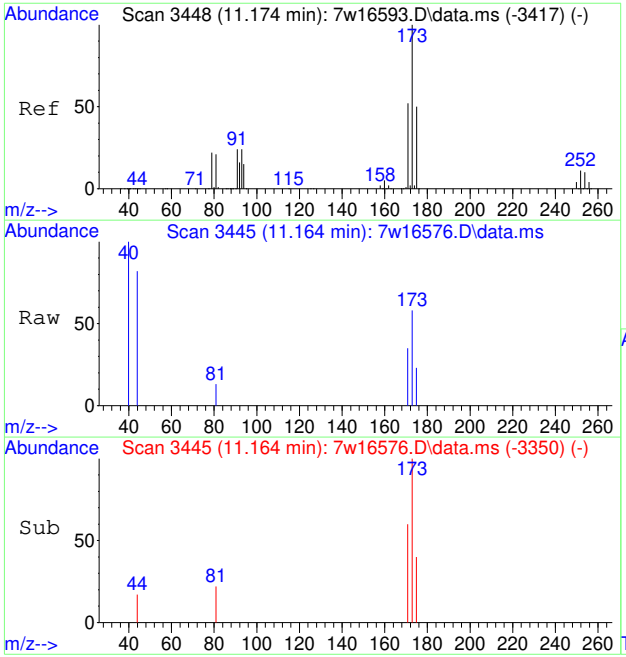


#83
NONANE
Concen: 0.04 PPBV
RT: 13.408 min Scan# 4143
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1708

Ion	Ratio	Lower	Upper
43	100		
85	6.0	27.6	51.2#
57	0.0	56.4	104.7#

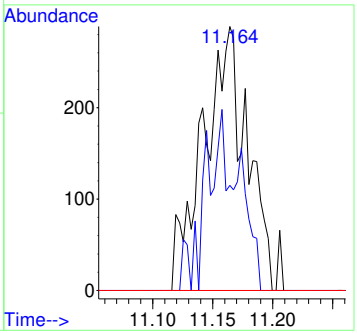


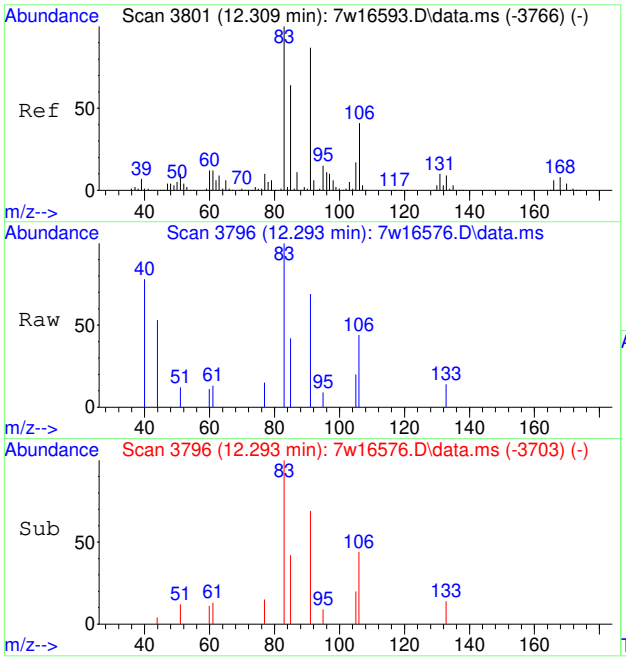


#84
BROMOFORM
Concen: 0.03 PPBV
RT: 11.164 min Scan# 3445
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:173 Resp: 746

Ion	Ratio	Lower	Upper
173	100		
175	50.7	33.0	61.4
254	0.0	5.9	10.9#

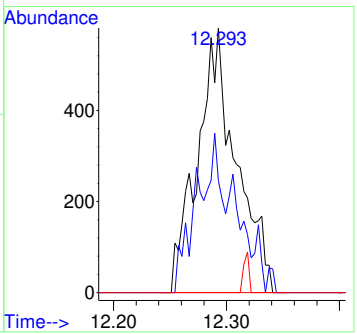


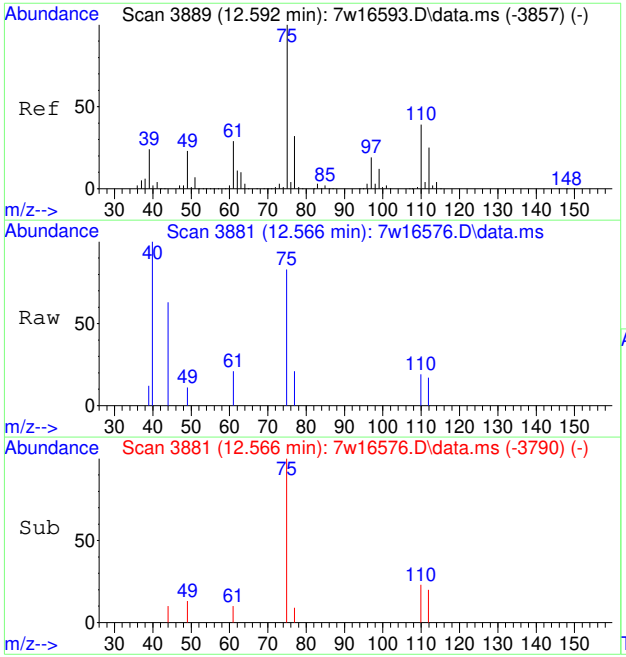


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1386

Ion	Ratio	Lower	Upper
83	100		
85	59.8	44.6	82.8
131	0.0	8.0	14.8#

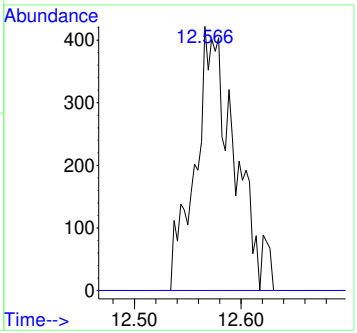


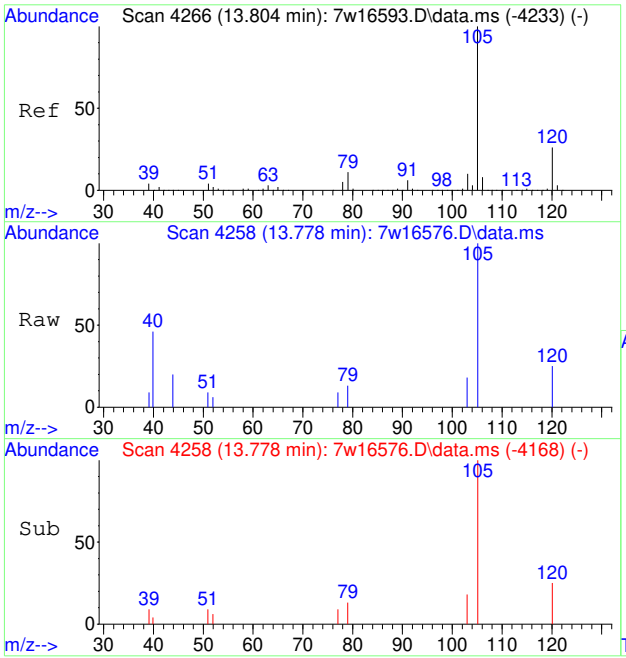


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.04 PPBV
RT: 12.566 min Scan# 3881
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 1086

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

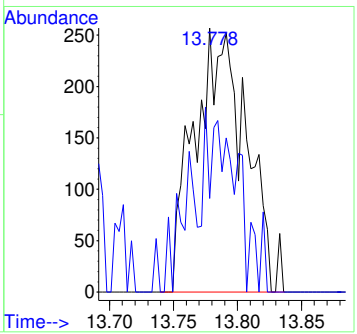


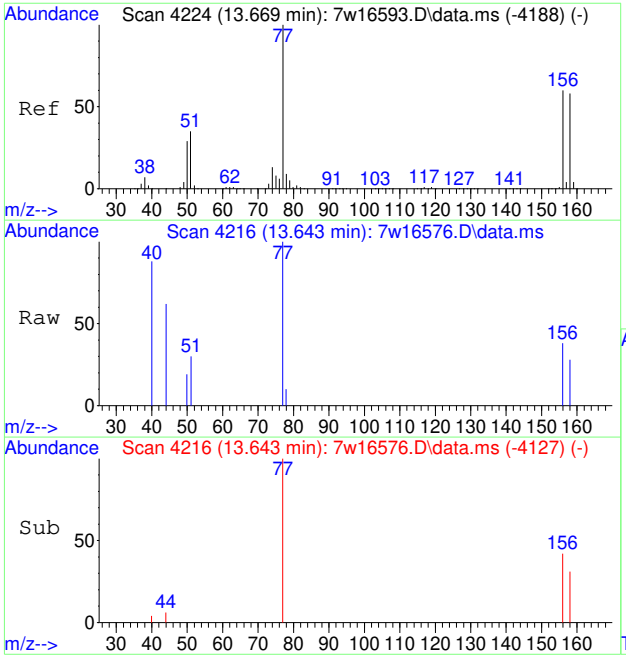


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 720

Ion	Ratio	Lower	Upper
120	100		
77	51.5	36.0	67.0

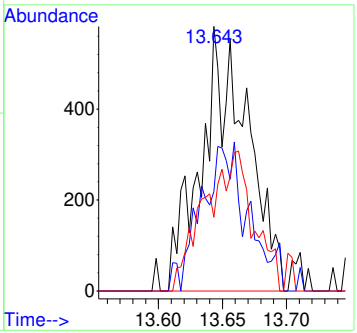


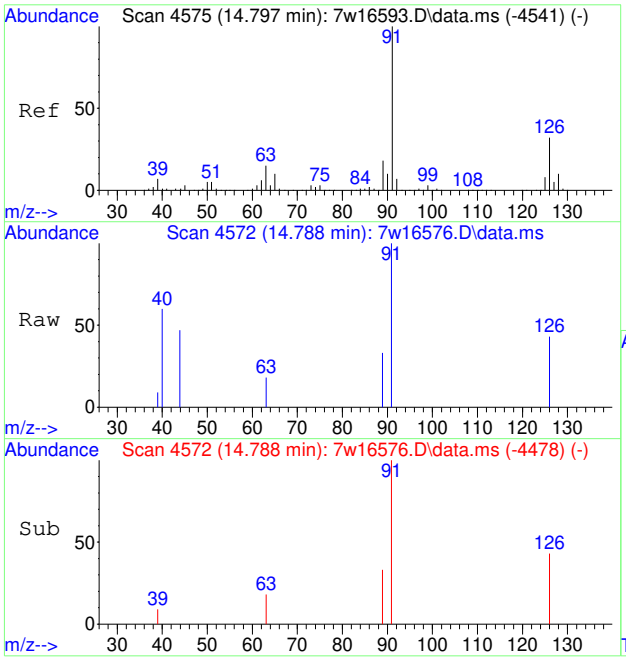


#89
BROMOBENZENE
Concen: 0.04 PPBV
RT: 13.643 min Scan# 4216
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 77 Resp: 1476

Ion	Ratio	Lower	Upper
77	100		
156	56.1	57.9	107.5#
158	57.3	55.7	103.5

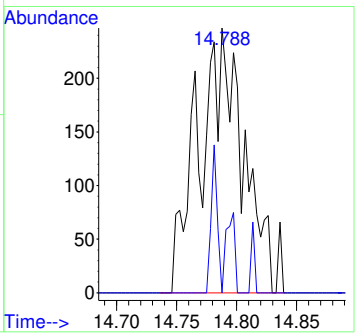


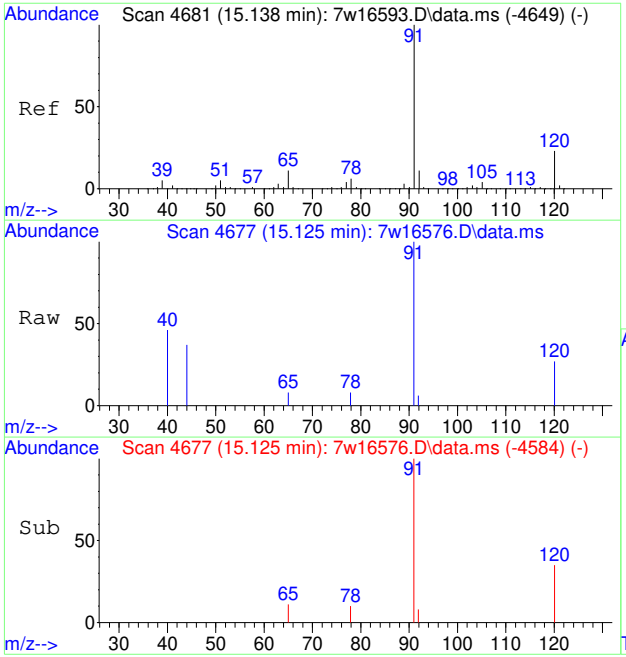


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:126 Resp: 652

Ion	Ratio	Lower	Upper
126	100		
128	13.3	22.7	42.1#

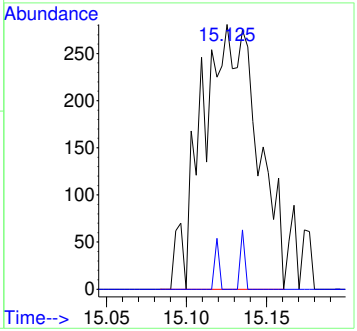


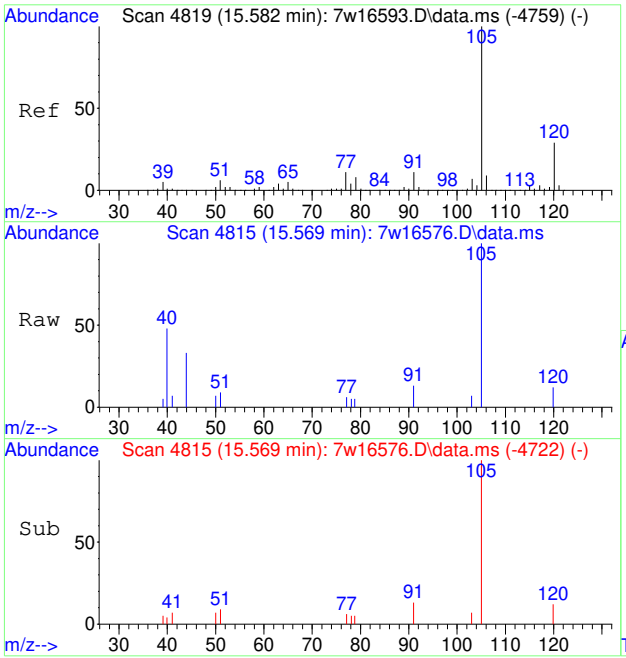


#91
N-PROPYLBENZENE
Concen: 0.03 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 688

Ion	Ratio	Lower	Upper
120	100		
105	0.0	10.6	19.6#

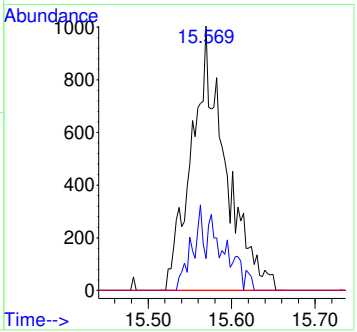


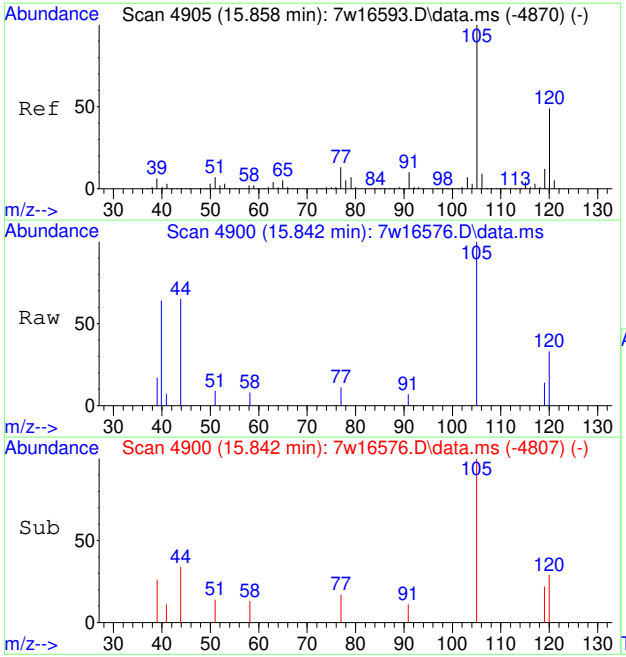


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2796

Ion	Ratio	Lower	Upper
105	100		
120	27.0	21.8	40.4
119	0.0	1.7	3.1#

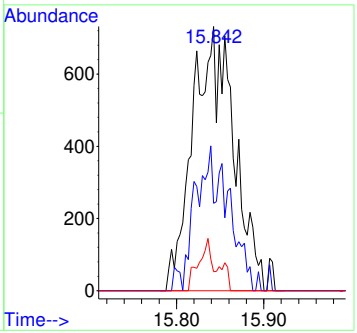


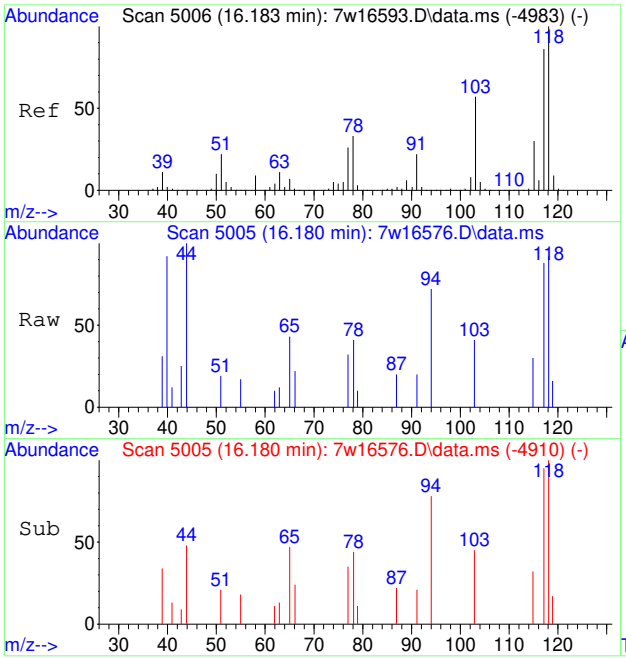


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2434

Ion	Ratio	Lower	Upper
105	100		
120	43.9	37.2	69.2
91	8.6	7.5	13.9

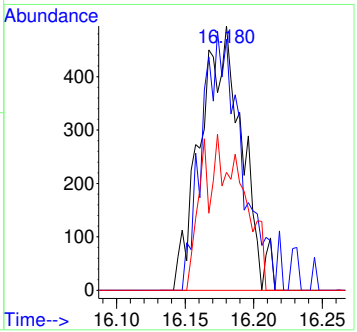


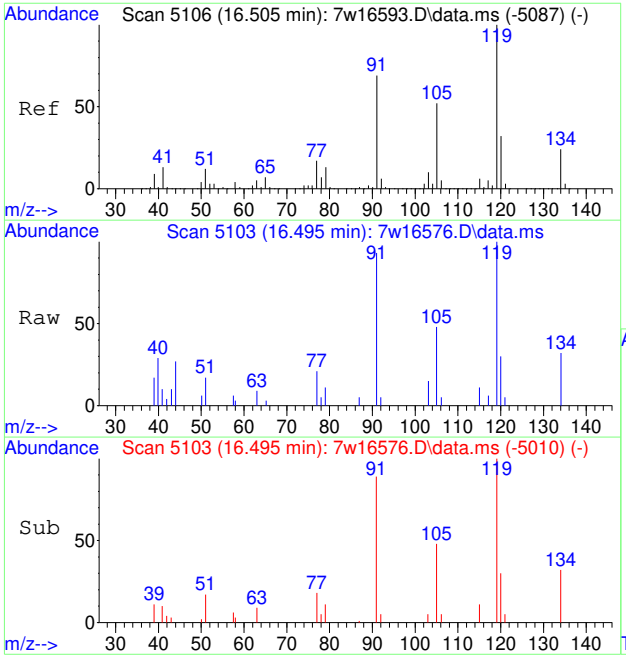


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:118 Resp: 1042

Ion	Ratio	Lower	Upper
118	100		
117	94.9	59.9	111.3
103	57.4	36.2	67.2

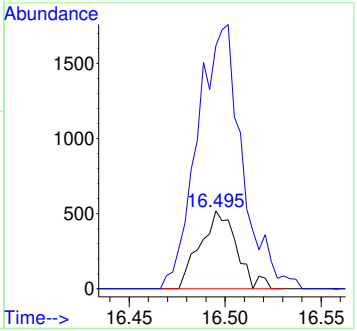


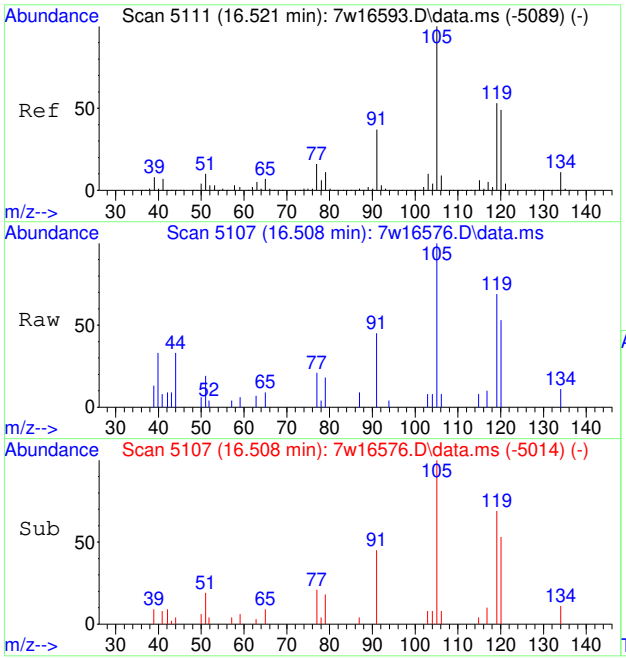


#95
TERT-BUTYLBENZENE
Concen: 0.05 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 685

Ion	Ratio	Lower	Upper
134	100		
119	417.1	307.9	571.7

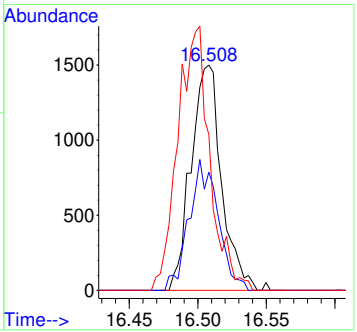


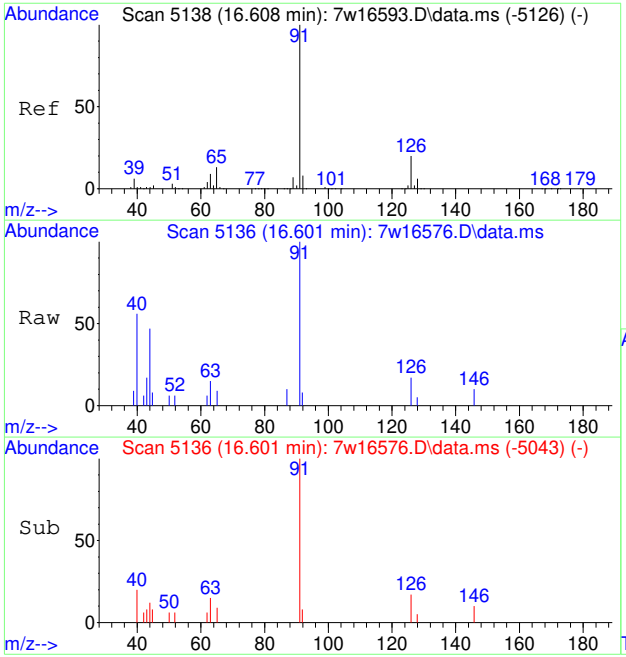


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2331

Ion	Ratio	Lower	Upper
105	100		
120	54.7	40.9	75.9
119	122.6	78.0	144.8

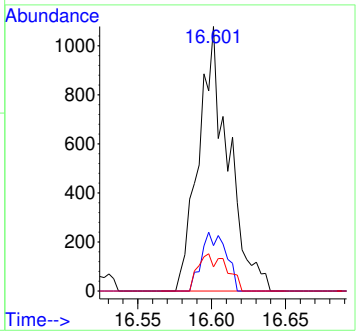


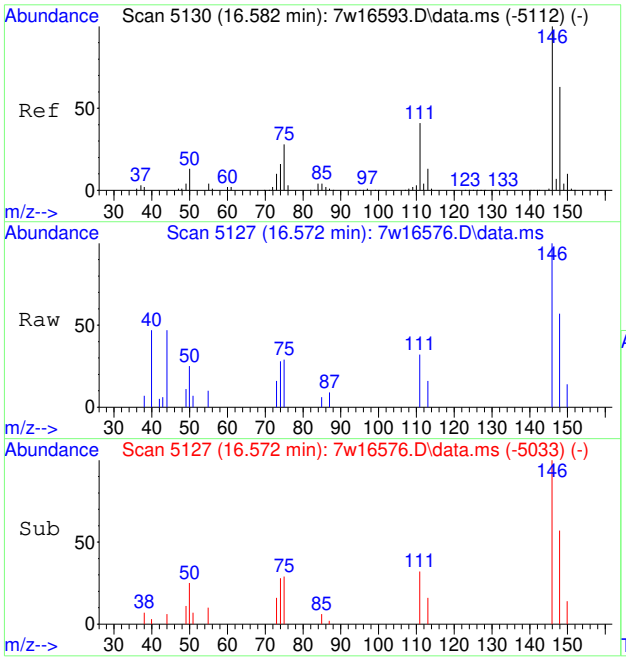


#97
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1503

Ion	Ratio	Lower	Upper
91	100		
126	18.2	17.2	32.0
65	13.4	7.3	13.7

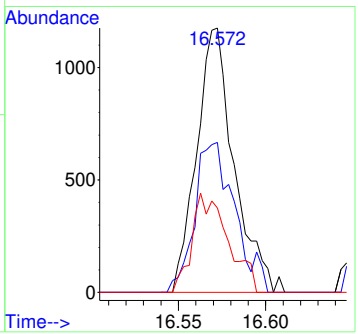


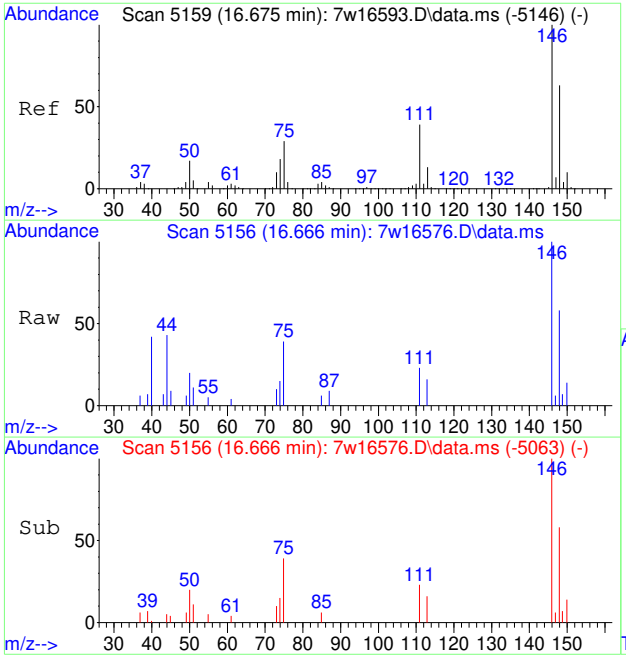


#98
M-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1758

Ion	Ratio	Lower	Upper
146	100		
148	60.6	44.2	82.2
111	35.9	25.4	47.2

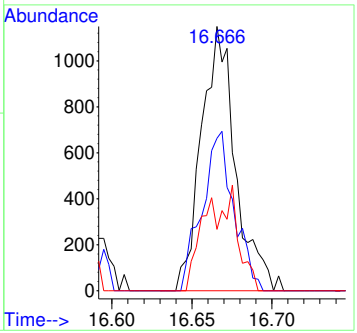


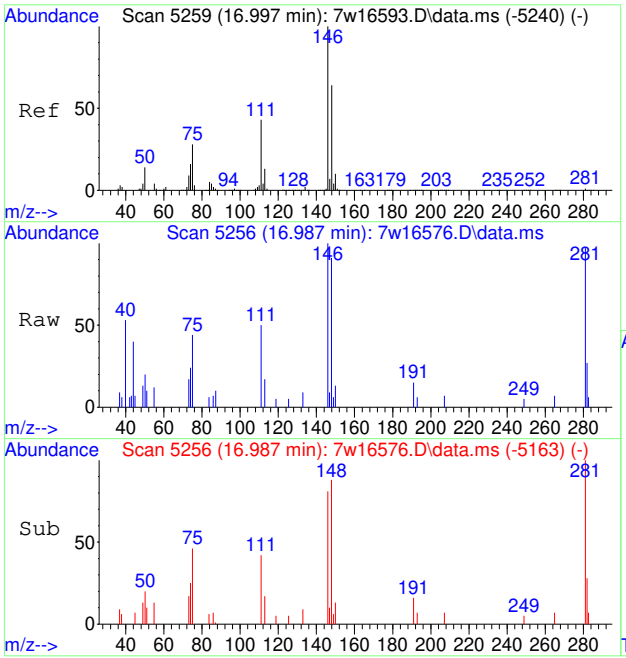


#99
P-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1701

Ion	Ratio	Lower	Upper
146	100		
148	56.6	44.7	82.9
111	37.6	24.8	46.1

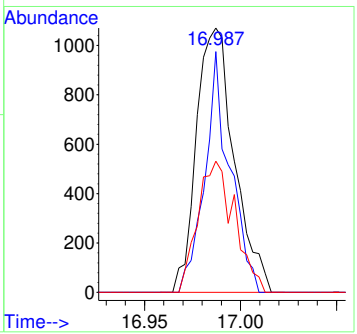


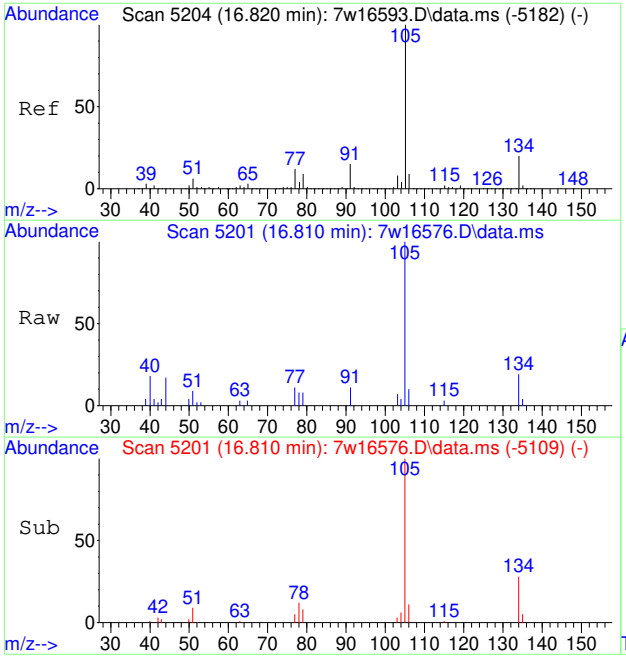


#100
O-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1470

Ion	Ratio	Lower	Upper
146	100		
148	60.7	44.6	82.8
111	48.1	26.9	50.1

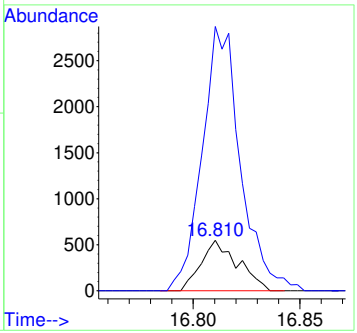


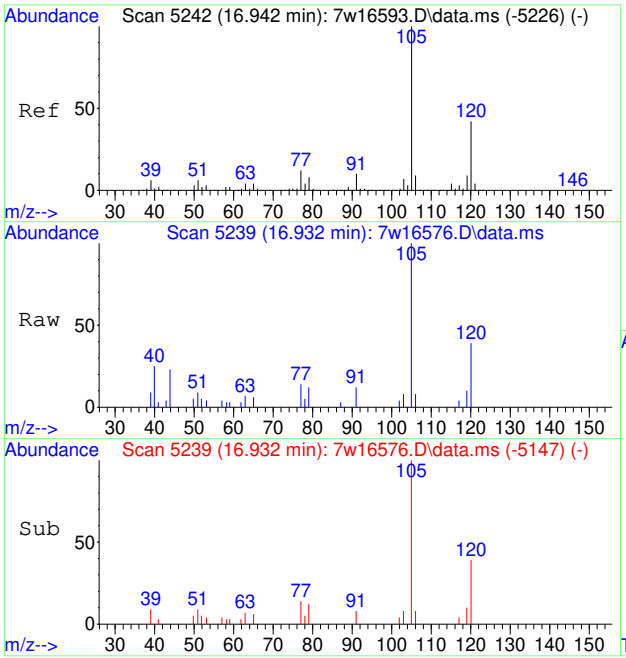


#101
SEC-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.810 min Scan# 5201
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 660

Ion	Ratio	Lower	Upper
134	100		
105	543.6	314.4	584.0

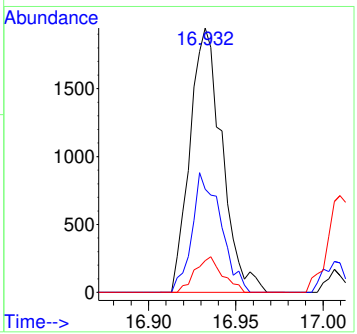


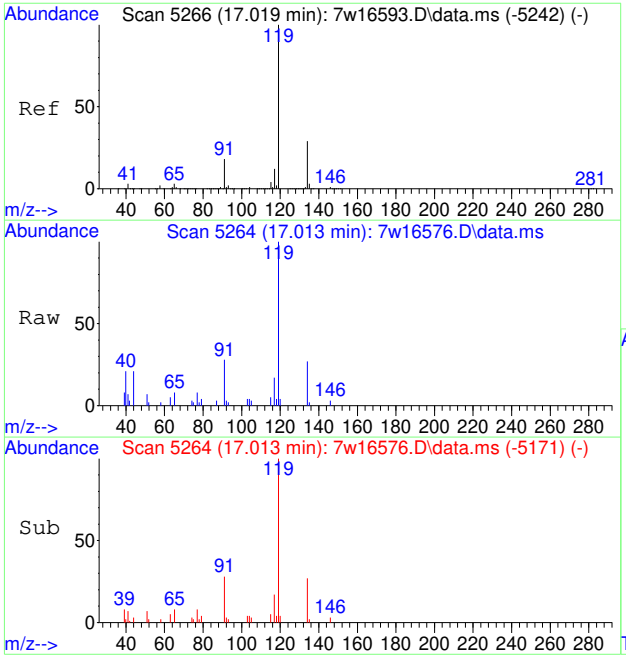


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2483

Ion	Ratio	Lower	Upper
105	100		
120	40.8	31.9	59.2
91	11.6	7.3	13.5

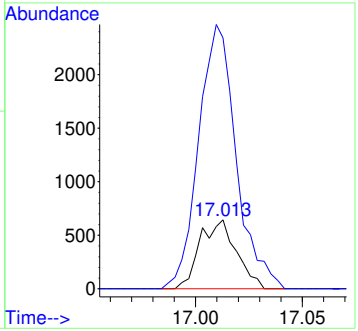


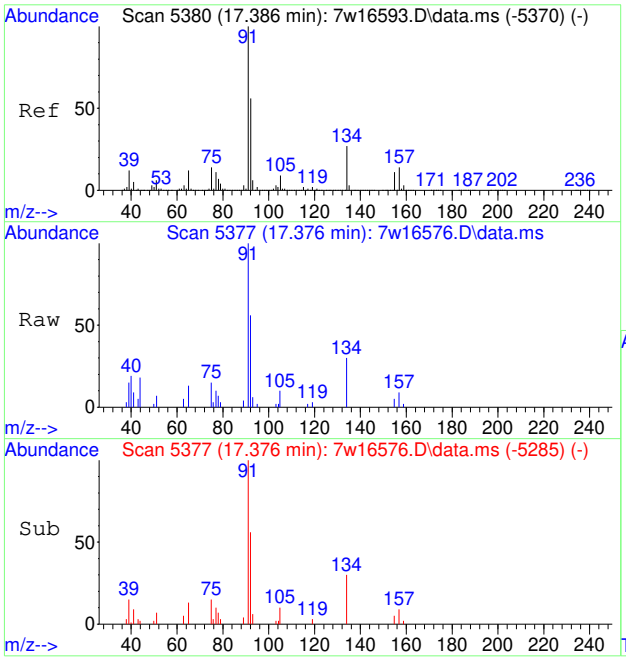


#103
P-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 767

Ion	Ratio	Lower	Upper
134	100		
119	394.7	253.7	471.3

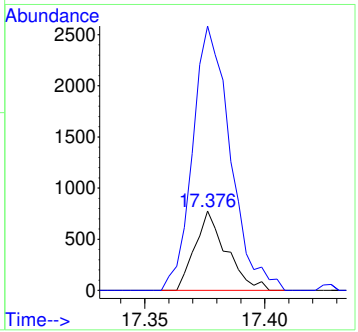


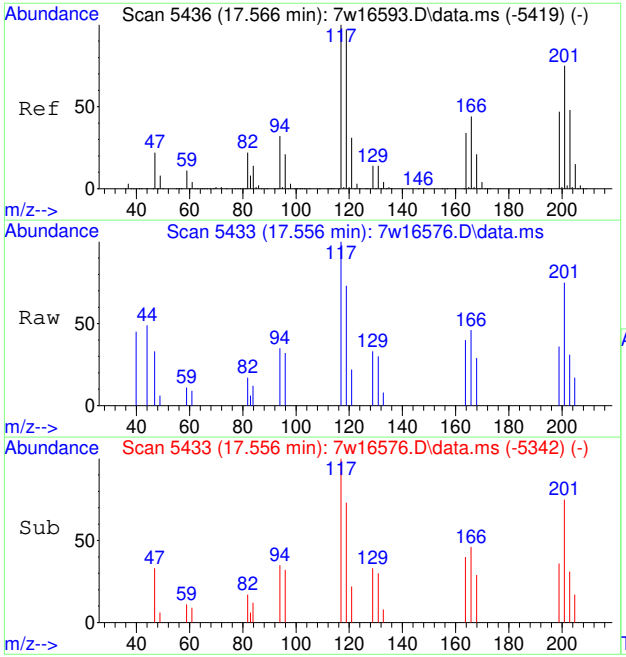


#104
N-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 703

Ion	Ratio	Lower	Upper
134	100		
91	401.0	231.1	429.1

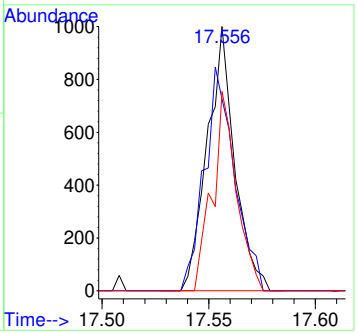


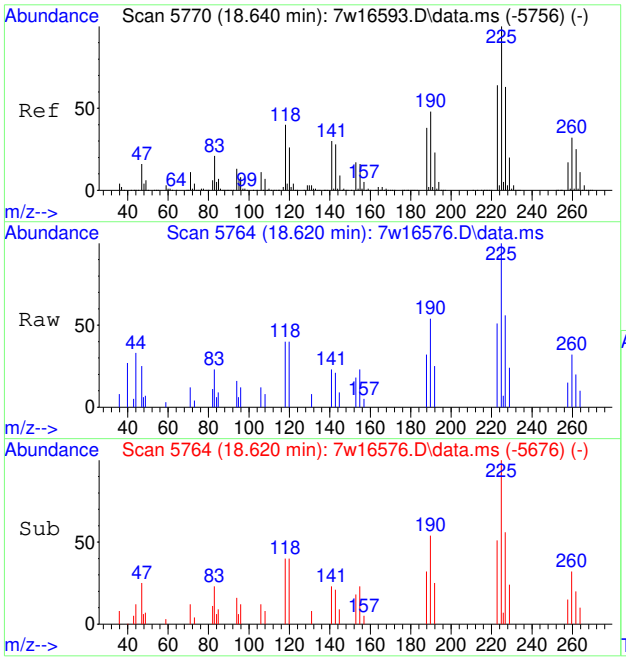


#105
HEXACHLOROETHANE
Concen: 0.04 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 895

Ion	Ratio	Lower	Upper
117	100		
119	92.8	68.3	126.9
201	66.3	45.9	85.3

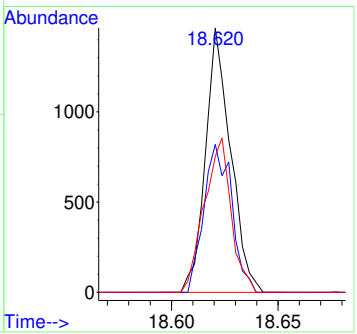


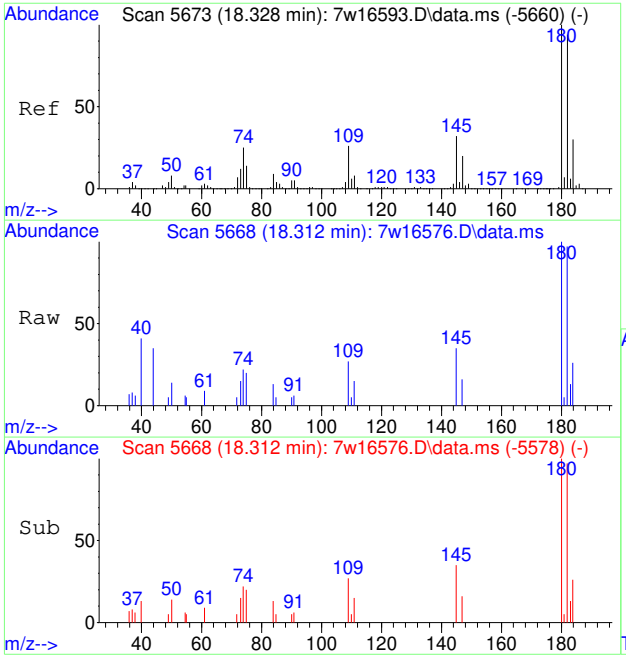


#106
HEXACHLOROBUTADIENE
Concen: 0.04 PPBV
RT: 18.620 min Scan# 5764
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:225 Resp: 1203

Ion	Ratio	Lower	Upper
225	100		
227	62.2	44.4	82.5
223	62.3	44.7	83.1

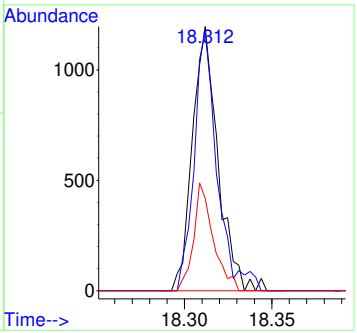


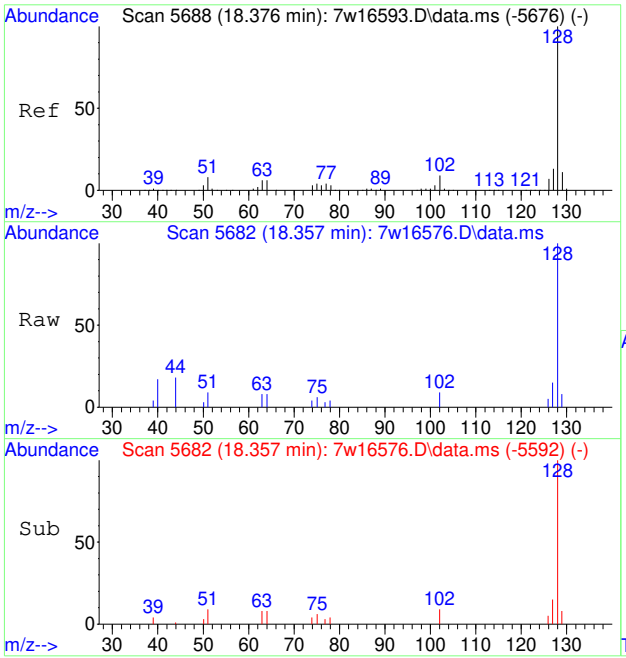


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.03 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:180 Resp: 1219

Ion	Ratio	Lower	Upper
180	100		
182	88.5	66.8	124.0
145	31.4	23.1	42.9

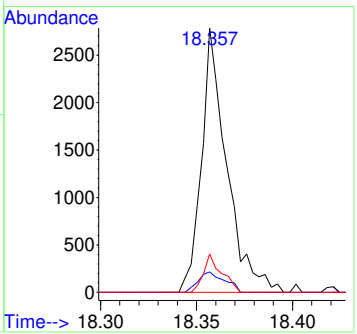




#108
NAPHTHALENE
Concen: 0.03 PPBV
RT: 18.357 min Scan# 5682
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:128 Resp: 2545

Ion	Ratio	Lower	Upper
128	100		
129	8.1	7.3	13.7
127	10.4	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16576.D
Injection Time: 08/07/25 04:00

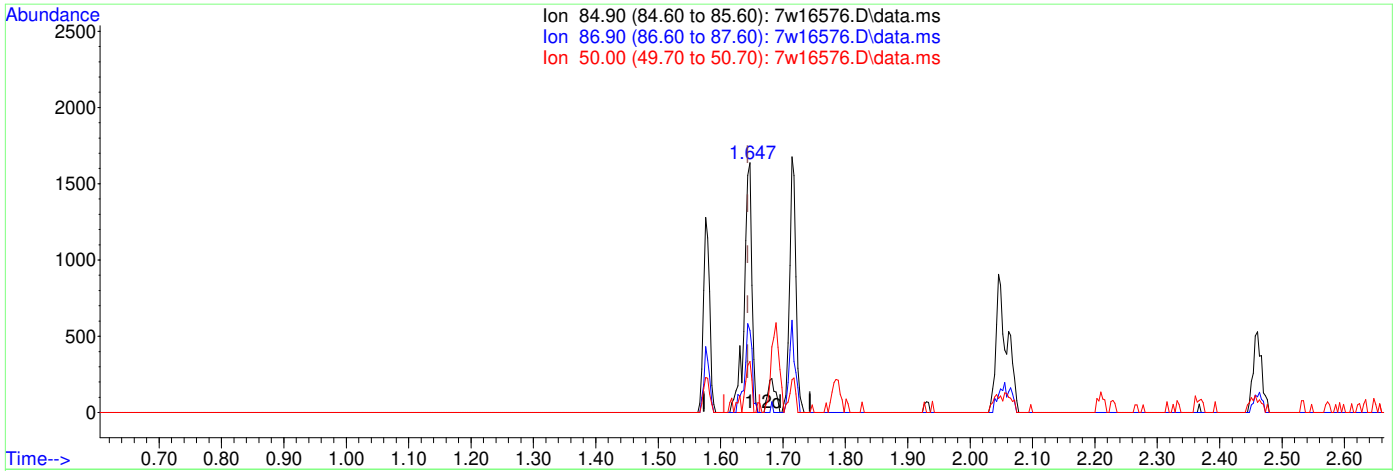
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

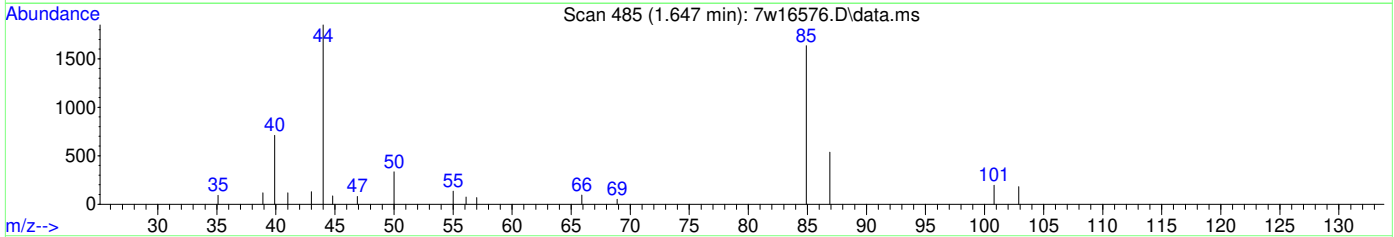
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

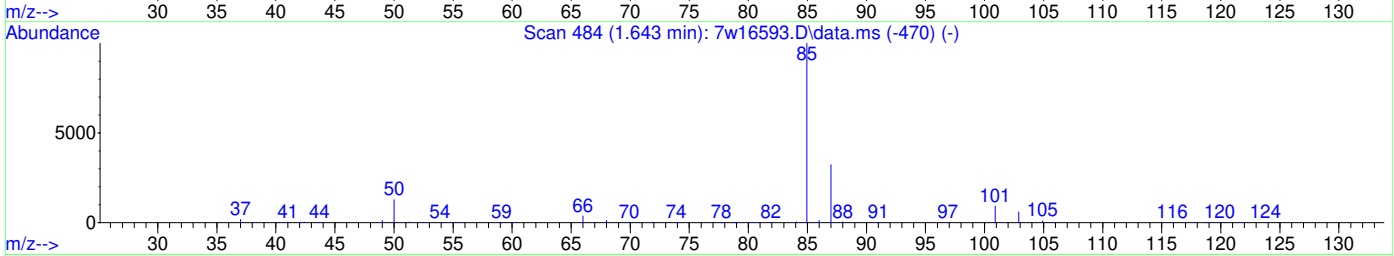
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.04PPBV

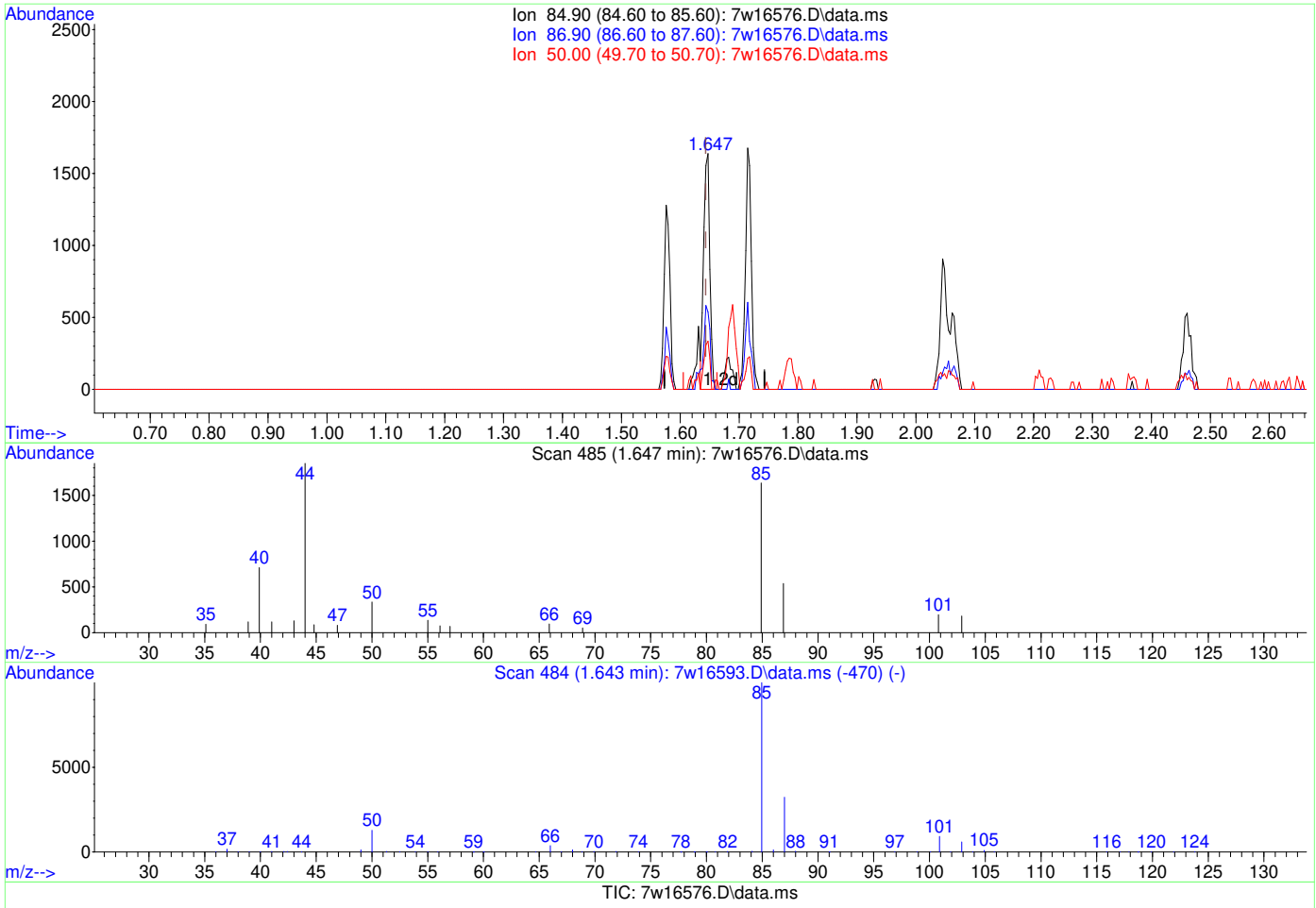
response 1388

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.65
50.00	17.30	23.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.03PPBV m

response 1176

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	40.90
50.00	17.30	27.64#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	113084	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	573427	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	530262	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	113084	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	422829	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	1638	0.11	PPBV		98
3) FREON 152A	1.608	65	909	0.13	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	372	0.12	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	1574	0.10	PPBV		76
6) DICHLORODIFLUOROMETHANE	1.647	85	3122m	0.09	PPBV		
7) PROPYLENE	1.627	41	1060	0.12	PPBV		84
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	2846	0.11	PPBV	#	86
9) FREON 114	1.717	85	3009	0.10	PPBV		85
10) CHLOROMETHANE	1.689	52	465	0.12	PPBV		93
11) VINYL CHLORIDE	1.746	62	1526	0.11	PPBV		97
12) 1,3-BUTADIENE	1.785	54	1299	0.12	PPBV		88
13) N-BUTANE	1.801	43	2465	0.13	PPBV	#	49
14) BROMOMETHANE	1.859	94	1194	0.11	PPBV		98
15) CHLOROETHANE	1.907	64	800	0.11	PPBV		95
16) DICHLOROFLUOROMETHANE	1.933	67	2916	0.11	PPBV		92
17) ACETONITRILE	2.000	41	1673	0.14	PPBV	#	91
18) ACROLEIN	2.036	56	823	0.13	PPBV		86
19) FREON 123	2.049	83	2970	0.11	PPBV		96
20) FREON 123A	2.065	117	1678	0.10	PPBV	#	33
21) TRICHLOROFLUOROMETHANE	2.129	101	3103	0.10	PPBV		96
24) PENTANE	2.242	42	1687	0.13	PPBV	#	90
25) IODOMETHANE	2.299	142	3122	0.11	PPBV		92
26) 1,1-DICHLOROETHYLENE	2.328	96	1351	0.12	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	3643	0.11	PPBV	#	75
29) BROMOETHENE	2.007	106	1160	0.10	PPBV		93
31) METHYLENE CHLORIDE	2.364	84	1574	0.14	PPBV	#	76
32) 3-CHLOROPROPENE	2.406	76	631	0.10	PPBV	#	54
33) FREON 113	2.460	151	1876	0.10	PPBV		81
34) TRANS-1,2-DICHLOROETHENE	2.685	96	1480	0.12	PPBV	#	73
35) TERTIARY BUTYL ALCOHOL	2.348	59	3930	0.12	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.798	73	4162	0.11	PPBV	#	71
37) TETRAHYDROFURAN	3.496	72	660	0.11	PPBV		88
38) HEXANE	3.238	57	2906	0.12	PPBV		87
39) VINYL ACETATE	2.824	86	343	0.10	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.759	63	2595	0.10	PPBV		96
41) METHYL ETHYL KETONE	2.933	72	844	0.13	PPBV	#	85
42) CIS-1,2-DICHLOROETHENE	3.113	96	1430	0.11	PPBV		80
43) DIISOPROPYL ETHER	3.248	59	742	0.11	PPBV		95
44) ETHYL ACETATE	3.258	61	462	0.09	PPBV		87
45) METHYL ACRYLATE	3.241	55	3222	0.11	PPBV	#	96
46) CHLOROFORM	3.258	83	2745	0.10	PPBV	#	90
47) 2,4-DIMETHYLPENTANE	3.740	57	3064	0.11	PPBV		95
48) 1,1,1-TRICHLOROETHANE	3.820	97	2869	0.10	PPBV		93
49) CARBON TETRACHLORIDE	4.235	117	2721	0.09	PPBV		97
50) 1,2-DICHLOROETHANE	3.663	62	2043	0.10	PPBV		96
51) BENZENE	4.126	78	4491	0.12	PPBV		95
53) CYCLOHEXANE	4.328	84	1883	0.11	PPBV	#	65
54) 2,3-DIMETHYLPENTANE	4.582	71	954	0.11	PPBV	#	54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

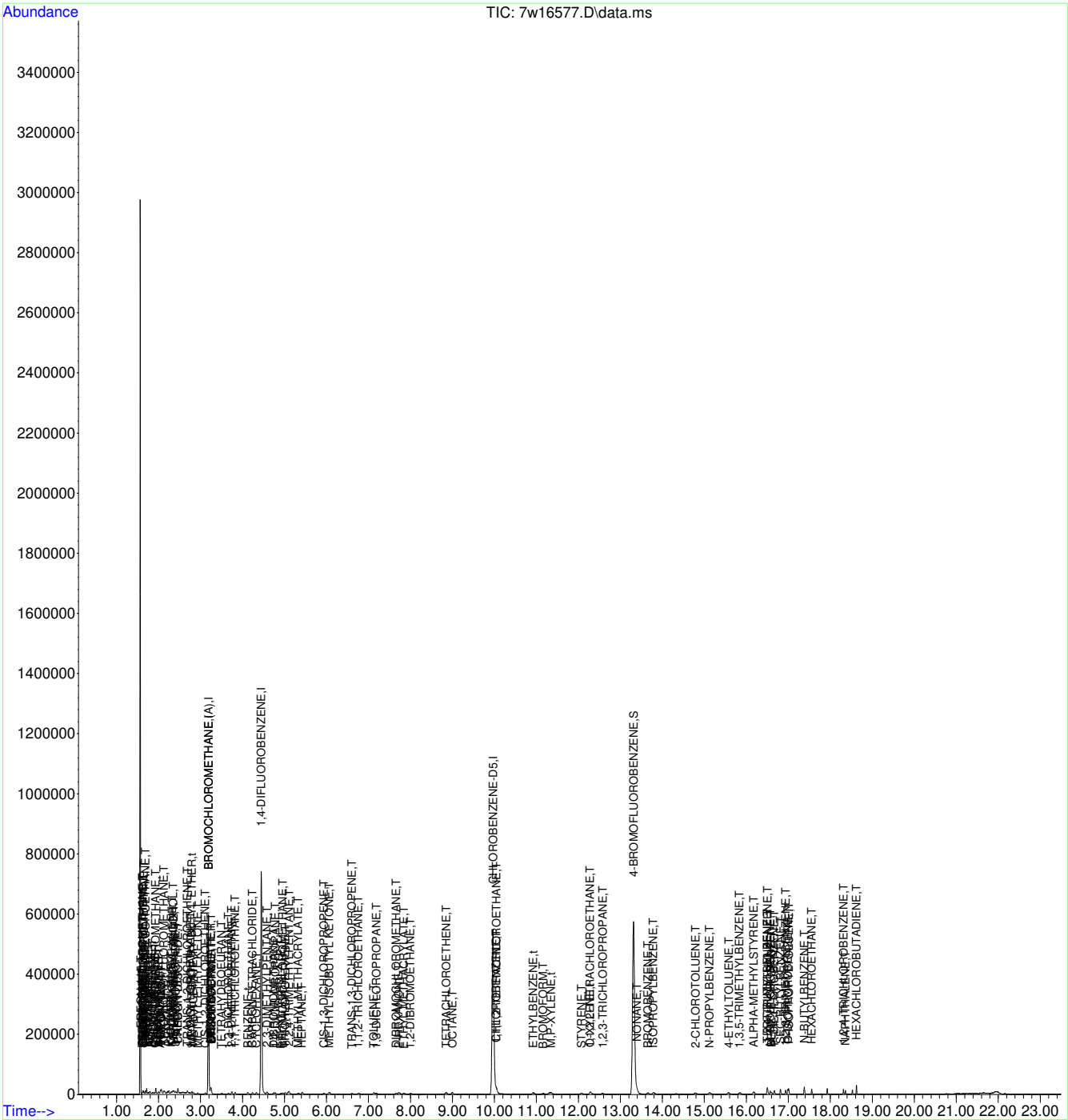
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55)	TRICHLOROETHENE	5.016	95	1997	0.11	PPBV		83
56)	1,2-DICHLOROPROPANE	4.785	63	1753	0.11	PPBV		85
57)	DIBROMOMETHANE	4.746	174	1723	0.11	PPBV		90
58)	ETHYL ACRYLATE	4.910	55	3841	0.10	PPBV	#	93
59)	BROMODICHLOROMETHANE	4.958	83	2818	0.09	PPBV		96
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	9397	0.12	PPBV	#	91
62)	HEPTANE	5.415	43	2892	0.11	PPBV		85
63)	METHYL METHACRYLATE	5.322	69	1510	0.10	PPBV		78
64)	METHYL ISOBUTYL KETONE	6.061	58	2096	0.14	PPBV	#	87
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	2385	0.09	PPBV		97
66)	TOLUENE	7.129	91	5187	0.11	PPBV		95
67)	1,3-DICHLOROPROPANE	7.187	76	2497	0.10	PPBV	#	93
68)	TRANS-1,3-DICHLOROPROPENE	6.605	75	1972	0.08	PPBV		93
69)	1,1,2-TRICHLOROETHANE	6.759	83	1417	0.10	PPBV		93
70)	2-HEXANONE	7.714	58	3348	0.17	PPBV	#	87
71)	ETHYL METHACRYLATE	7.843	69	2476	0.10	PPBV	#	74
72)	TETRACHLOROETHENE	8.849	164	1845	0.11	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.663	129	2664	0.09	PPBV		97
74)	1,2-DIBROMOETHANE	7.991	107	2697	0.11	PPBV	#	94
75)	OCTANE	9.000	43	3873	0.11	PPBV		88
77)	1,1,1,2-TETRACHLOROETHANE	10.045	131	2123	0.10	PPBV		97
78)	CHLOROBENZENE	10.035	112	4090	0.11	PPBV	#	79
79)	ETHYLBENZENE	10.923	91	6930	0.11	PPBV		100
80)	M,P-XYLENE	11.347	91	10889	0.22	PPBV	#	87
81)	O-XYLENE	12.277	91	5536	0.11	PPBV	#	76
82)	STYRENE	12.071	104	3856	0.10	PPBV	#	49
83)	NONANE	13.389	43	4193	0.11	PPBV		81
84)	BROMOFORM	11.158	173	2131	0.08	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.277	83	3686	0.10	PPBV	#	95
86)	1,2,3-TRICHLOROPROPANE	12.579	75	2860	0.10	PPBV	#	99
88)	ISOPROPYLBENZENE	13.778	120	2075	0.11	PPBV		81
89)	BROMOBENZENE	13.649	77	4058	0.11	PPBV	#	70
90)	2-CHLOROTOLUENE	14.788	126	1780	0.10	PPBV	#	61
91)	N-PROPYLBENZENE	15.122	120	1971	0.10	PPBV		94
92)	4-ETHYLTOLUENE	15.582	105	7463	0.10	PPBV	#	96
93)	1,3,5-TRIMETHYLBENZENE	15.829	105	6383	0.10	PPBV	#	34
94)	ALPHA-METHYLSTYRENE	16.170	118	2929	0.09	PPBV		96
95)	TERT-BUTYLBENZENE	16.495	134	1569	0.10	PPBV		94
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	6125	0.10	PPBV		95
97)	BENZYL CHLORIDE	16.598	91	3788	0.07	PPBV	#	87
98)	M-DICHLOROBENZENE	16.566	146	4159	0.10	PPBV		96
99)	P-DICHLOROBENZENE	16.662	146	4312	0.10	PPBV		95
100)	O-DICHLOROBENZENE	16.987	146	4193	0.11	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	2000	0.11	PPBV		89
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	6206	0.10	PPBV		94
103)	P-ISOPROPYLTOLUENE	17.009	134	2027	0.10	PPBV		86
104)	N-BUTYLBENZENE	17.376	134	1794	0.09	PPBV		70
105)	HEXACHLOROETHANE	17.556	117	2143	0.09	PPBV		99
106)	HEXACHLOROBUTADIENE	18.624	225	3071	0.12	PPBV		96
107)	1,2,4-TRICHLOROBENZENE	18.312	180	2908	0.08	PPBV		97
108)	NAPHTHALENE	18.360	128	6418	0.08	PPBV		99

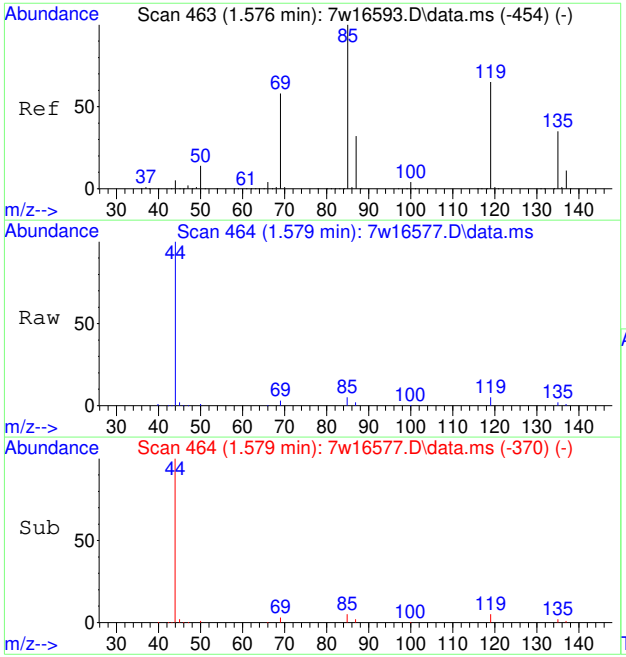
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

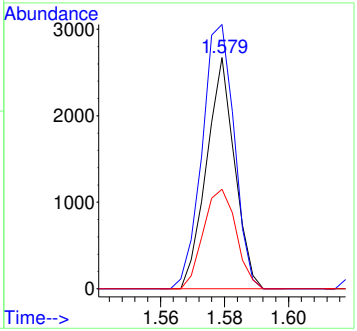


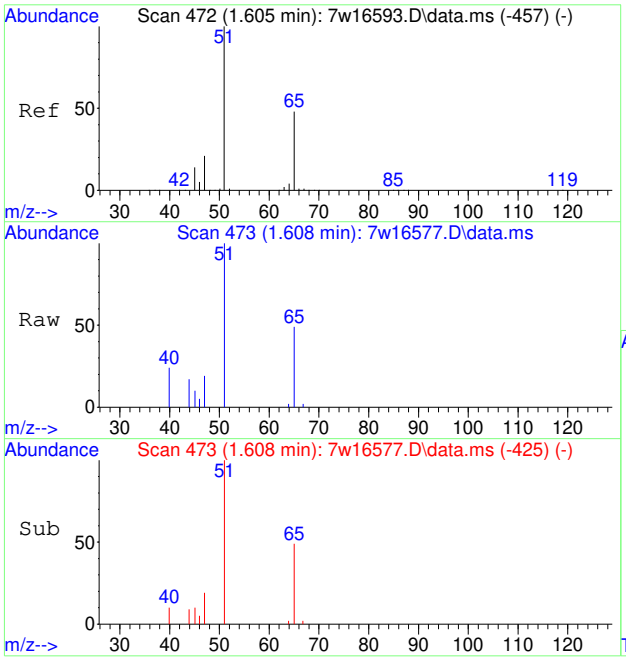


#2
FREON 115
Concen: 0.11 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:119 Resp: 1638

Ion	Ratio	Lower	Upper
119	100		
85	130.1	90.9	168.7
135	50.1	38.2	71.0

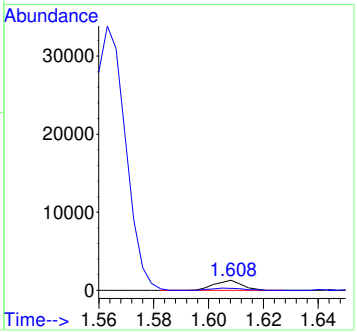


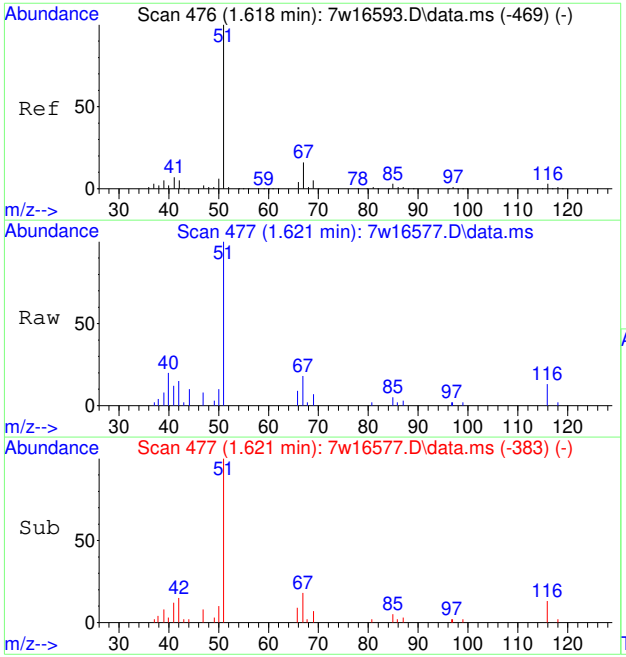


#3
FREON 152A
Concen: 0.13 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 909

Ion	Ratio	Lower	Upper
65	100		
45	25.6	20.6	38.4

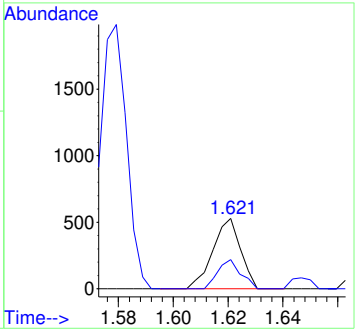


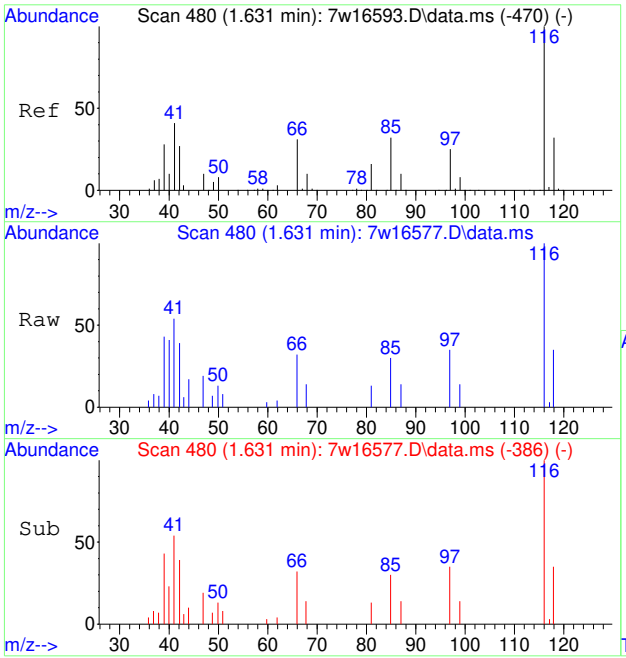


#4
CHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 372

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

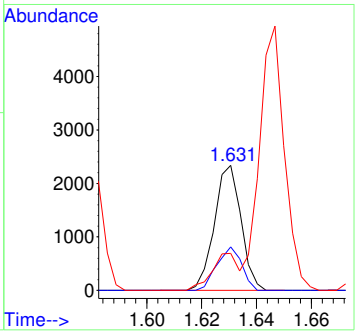


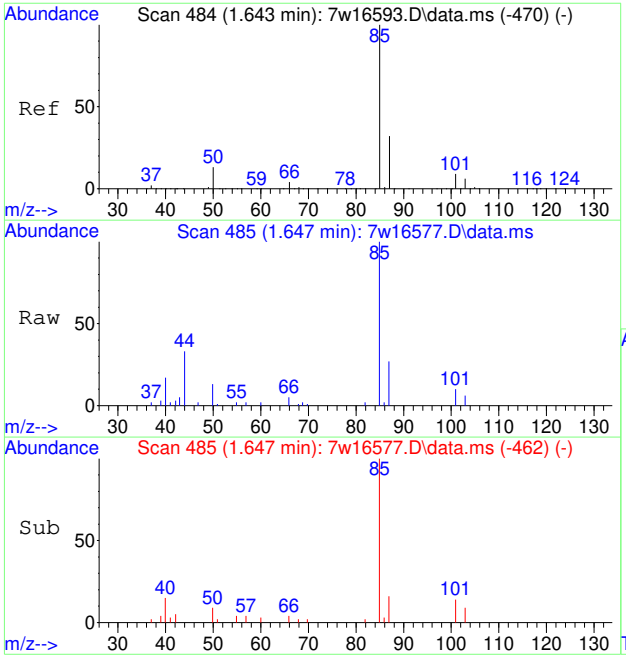


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:116 Resp: 1574

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.7	42.1
85	227.6	194.7	361.7

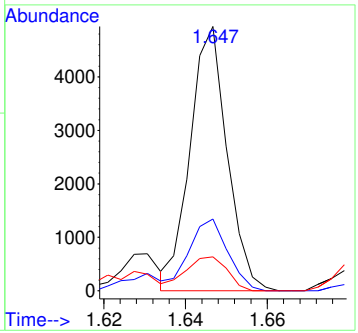


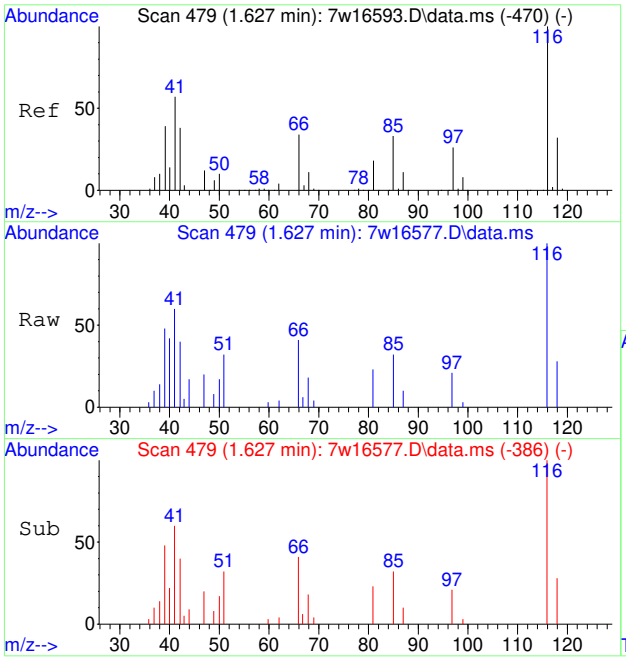


#6
DICHLORODIFLUOROMETHANE
Concen: 0.09 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3122

Ion	Ratio	Lower	Upper
85	100		
87	34.8	23.1	42.9
50	24.8	12.1	22.5#

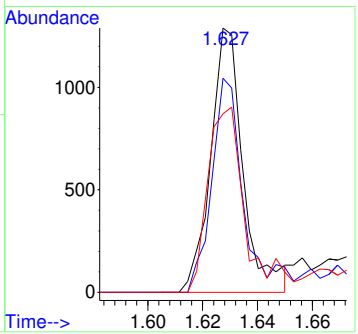


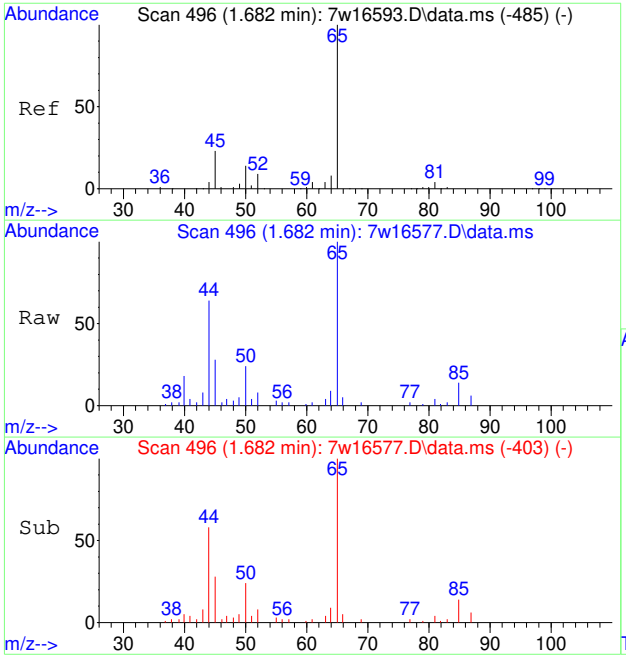


#7
PROPYLENE
Concen: 0.12 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1060

Ion	Ratio	Lower	Upper
41	100		
39	84.6	51.0	94.8
42	80.7	46.6	86.6

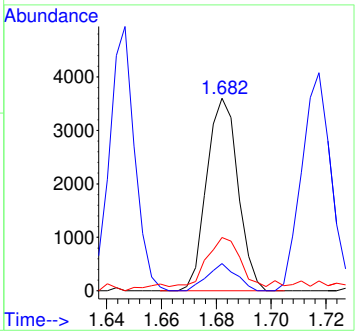


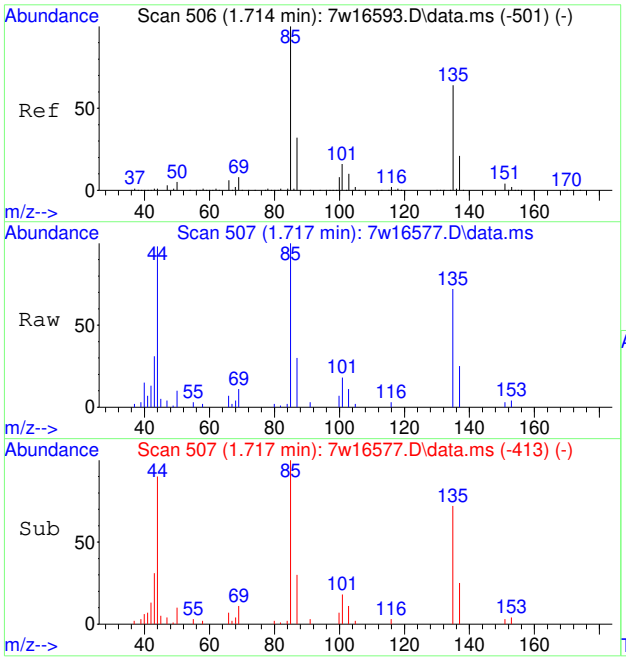


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.11 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 2846

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	35.0	17.0	31.6#

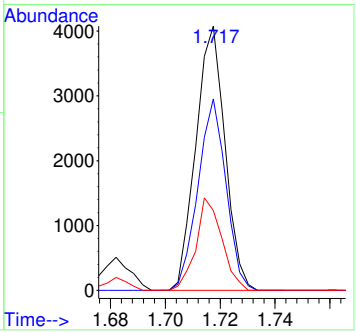


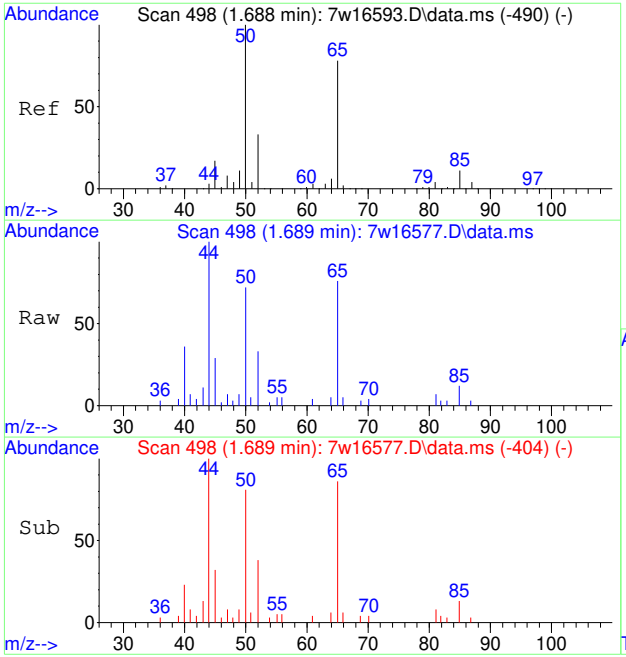


#9
FREON 114
Concen: 0.10 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3009

Ion	Ratio	Lower	Upper
85	100		
135	69.5	61.3	113.9
87	31.1	23.2	43.0

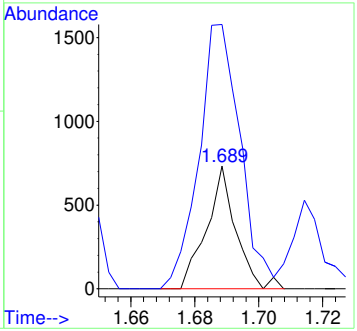


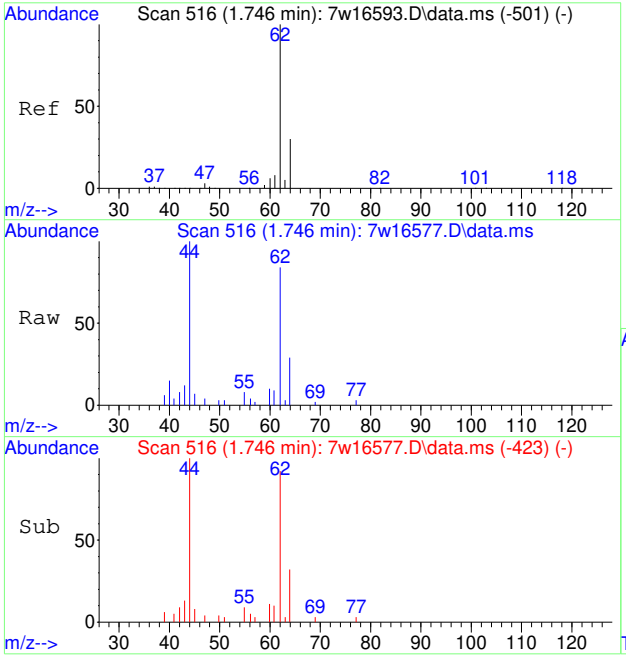


#10
CHLOROMETHANE
Concen: 0.12 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 52 Resp: 465

Ion	Ratio	Lower	Upper
52	100		
50	309.9	227.6	422.6

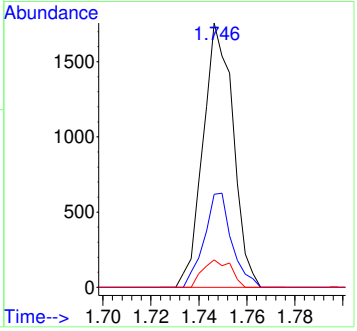


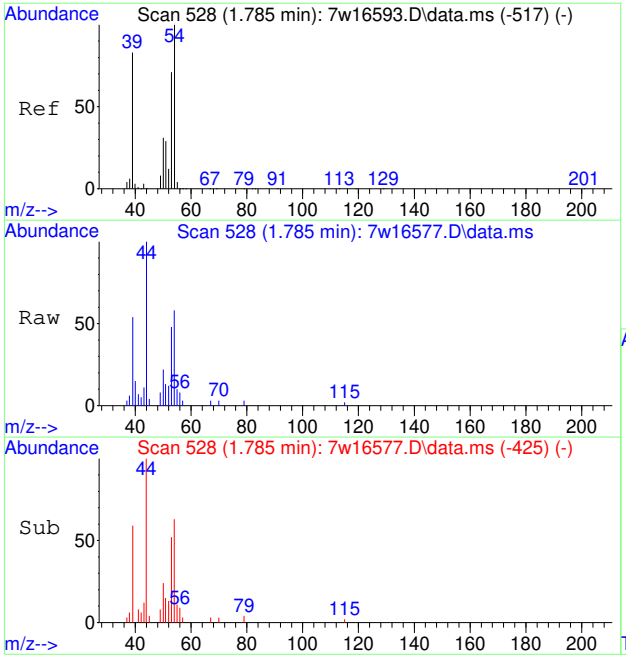


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 1526

Ion	Ratio	Lower	Upper
62	100		
64	32.6	21.6	40.2
61	9.8	5.7	10.7

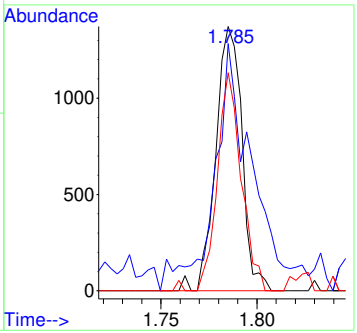


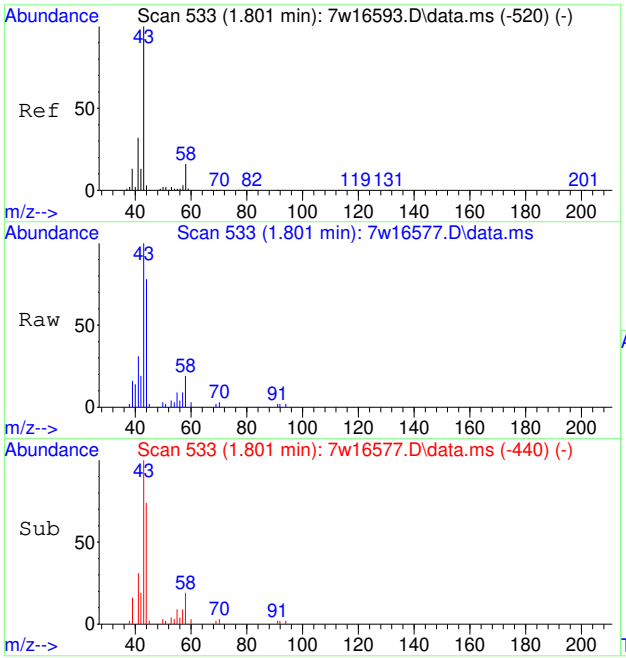


#12
1,3-BUTADIENE
Concen: 0.12 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 54 Resp: 1299

Ion	Ratio	Lower	Upper
54	100		
39	136.5	125.6	185.6
53	75.2	40.7	100.7

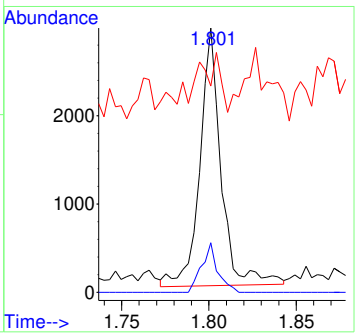


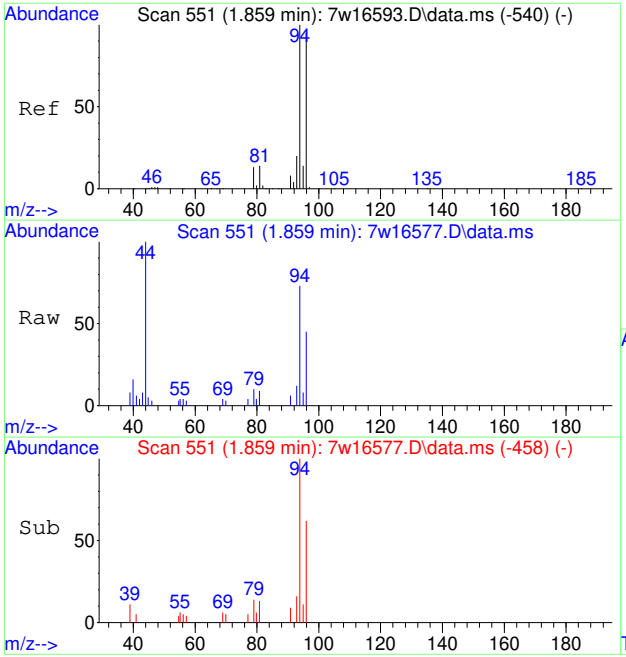


#13
N-BUTANE
Concen: 0.13 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2465

Ion	Ratio	Lower	Upper
43	100		
58	14.6	10.4	19.4
44	79.0	3.0	5.6#

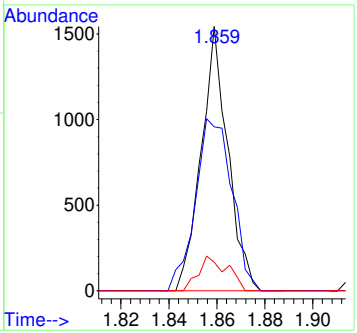


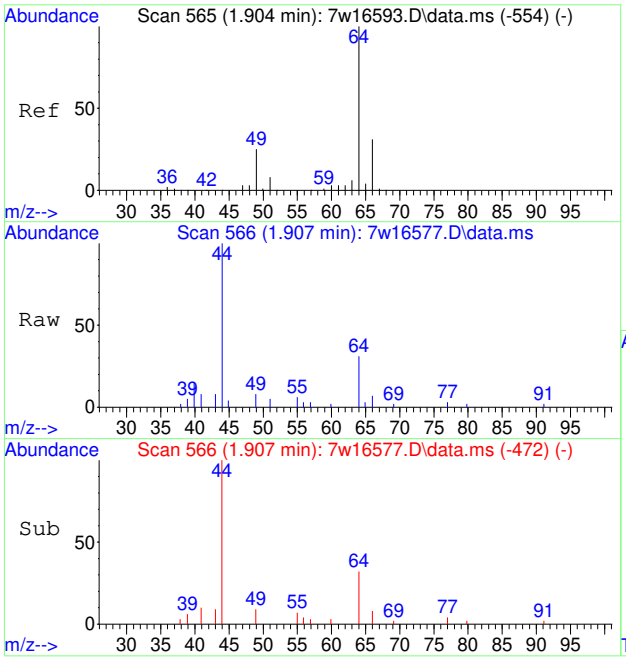


#14
BROMOMETHANE
Concen: 0.11 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 94 Resp: 1194

Ion	Ratio	Lower	Upper
94	100		
96	89.2	63.6	118.0
95	14.1	10.0	18.6

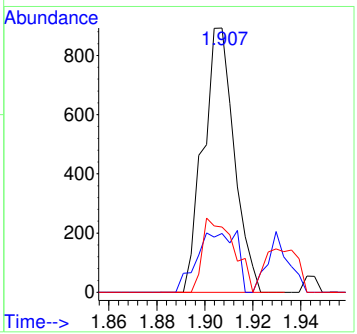


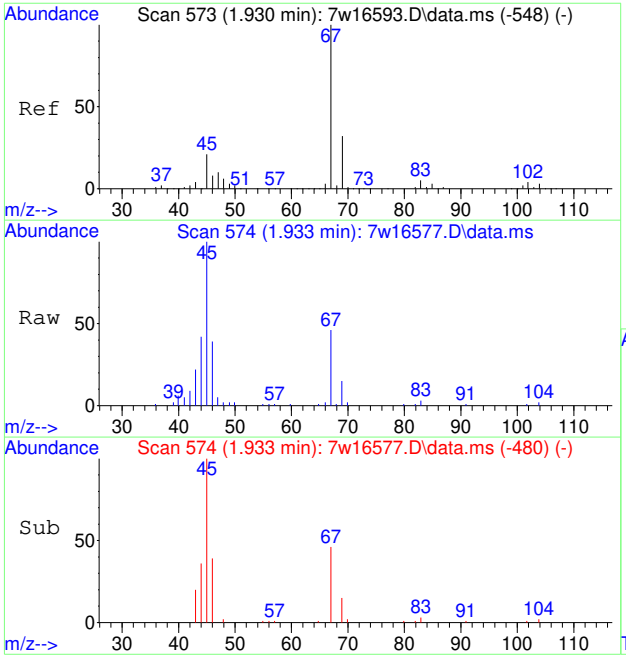


#15
CHLOROETHANE
Concen: 0.11 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 64 Resp: 800

Ion	Ratio	Lower	Upper
64	100		
66	29.4	23.0	42.6
49	28.2	21.5	39.9

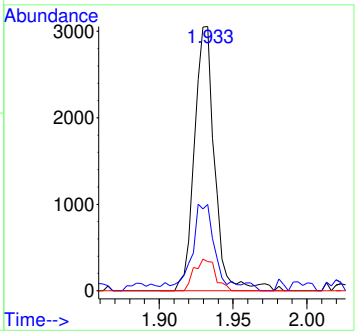


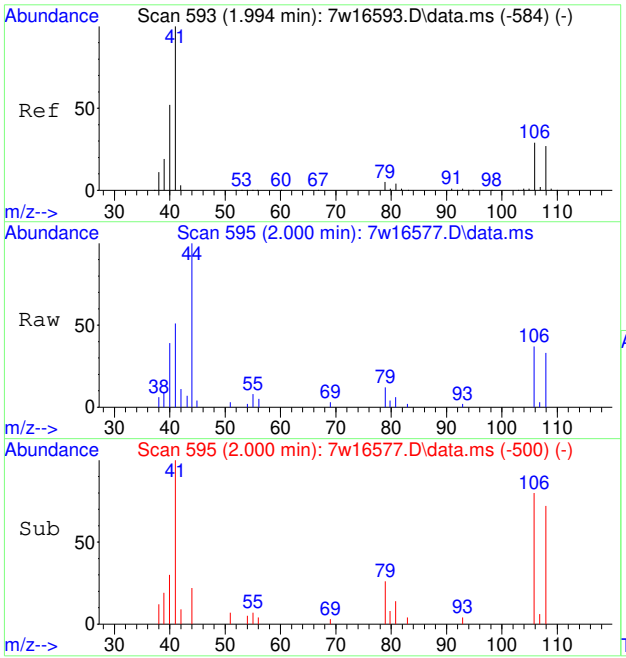


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 2916

Ion	Ratio	Lower	Upper
67	100		
69	39.0	23.2	43.0
47	12.6	9.6	17.8

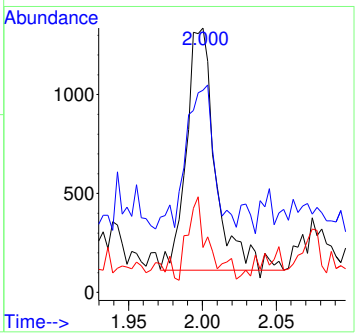


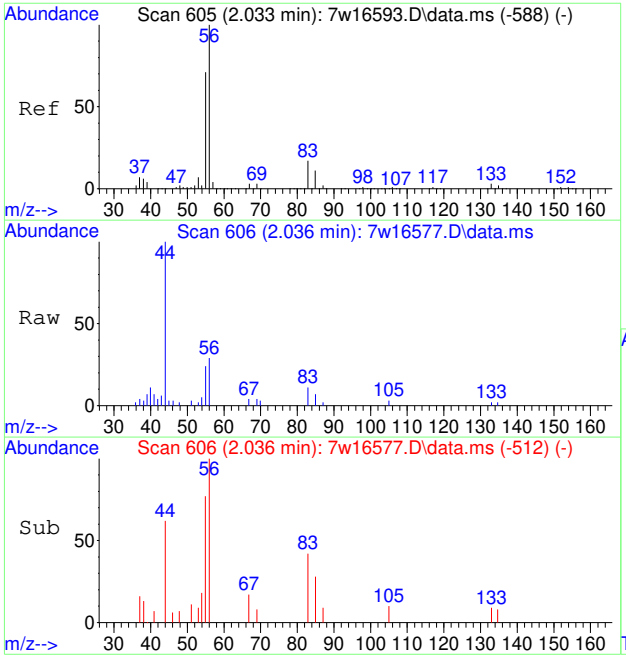


#17
ACETONITRILE
Concen: 0.14 PPBV
RT: 2.000 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1673

Ion	Ratio	Lower	Upper
41	100		
40	54.7	38.4	71.4
39	36.0	14.5	26.9#

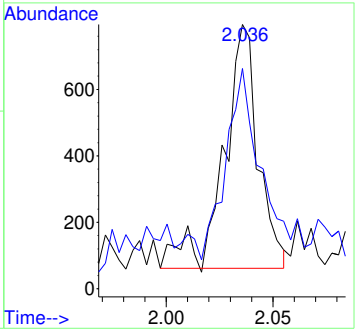


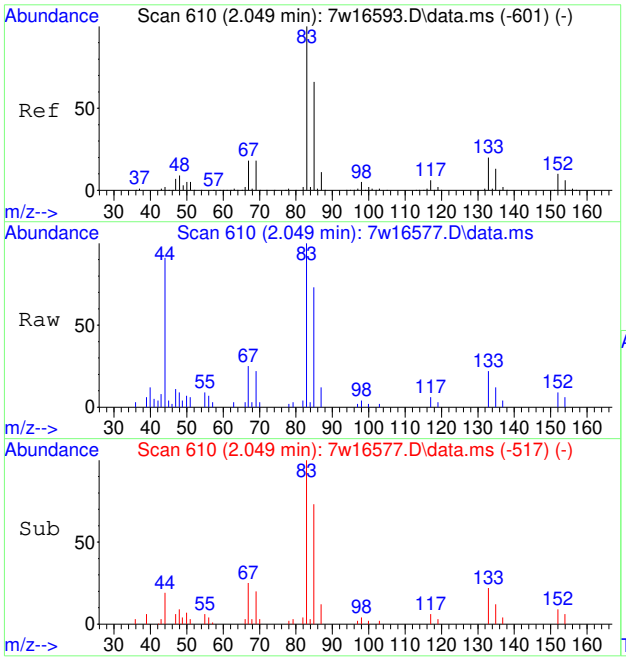


#18
ACROLEIN
Concen: 0.13 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 56 Resp: 823

Ion	Ratio	Lower	Upper
56	100		
55	85.2	51.2	95.2

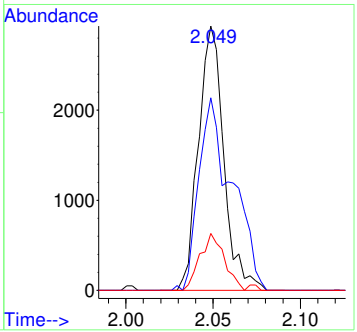


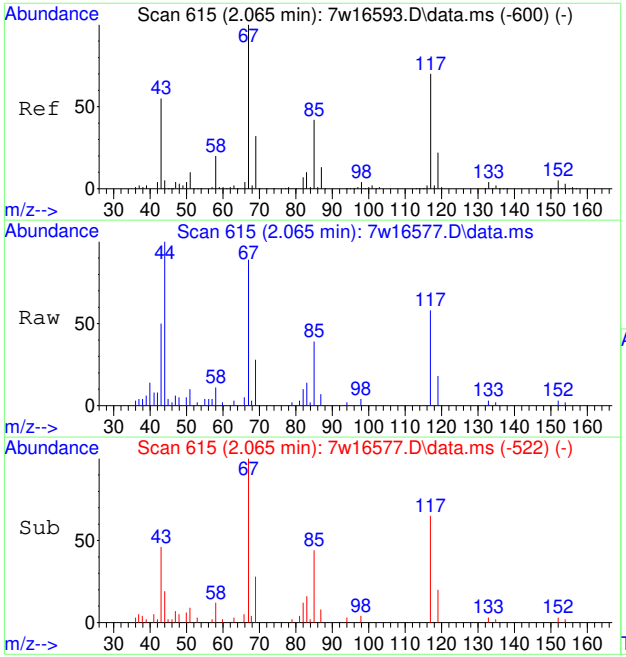


#19
FREON 123
Concen: 0.11 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2970

Ion	Ratio	Lower	Upper
83	100		
85	95.5	65.7	121.9
133	21.5	19.9	36.9

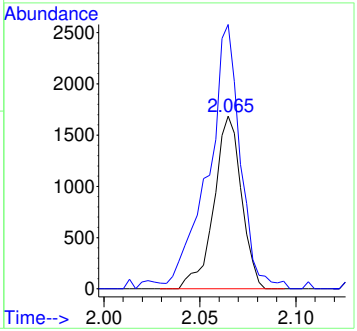


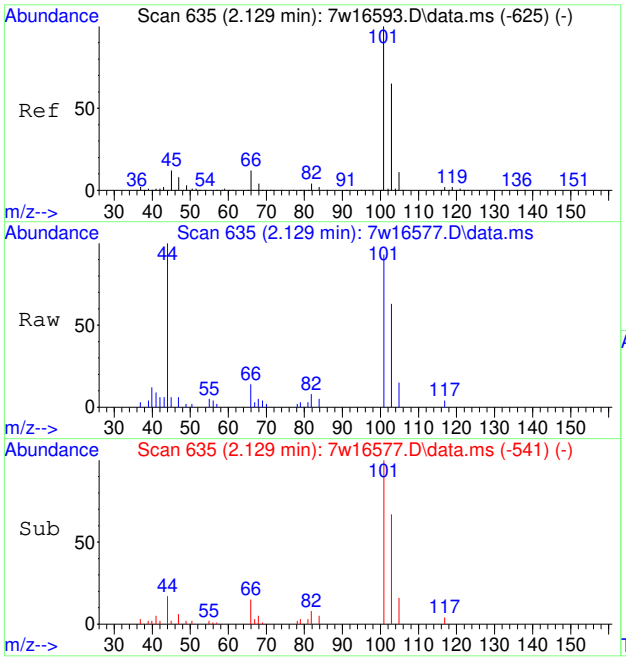


#20
FREON 123A
Concen: 0.10 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 1678

Ion	Ratio	Lower	Upper
117	100		
67	184.8	78.8	146.4#

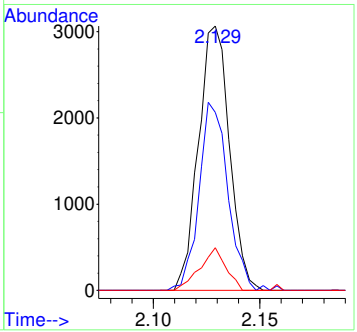


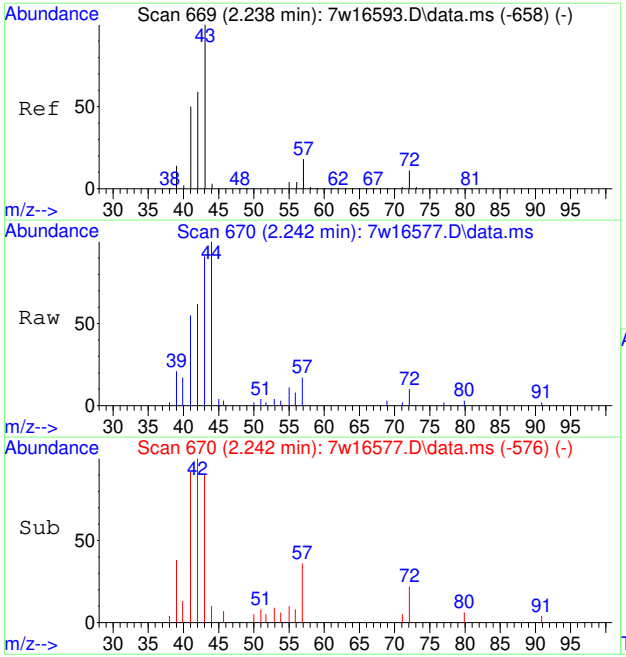


#21
TRICHLOROFLUOROMETHANE
Concen: 0.10 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:101 Resp: 3103

Ion	Ratio	Lower	Upper
101	100		
103	66.1	44.3	82.3
105	13.6	7.3	13.7

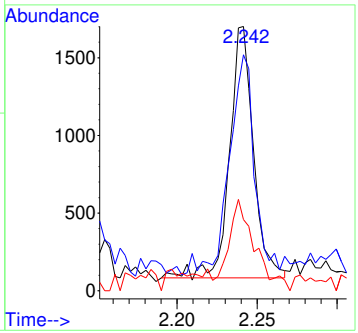


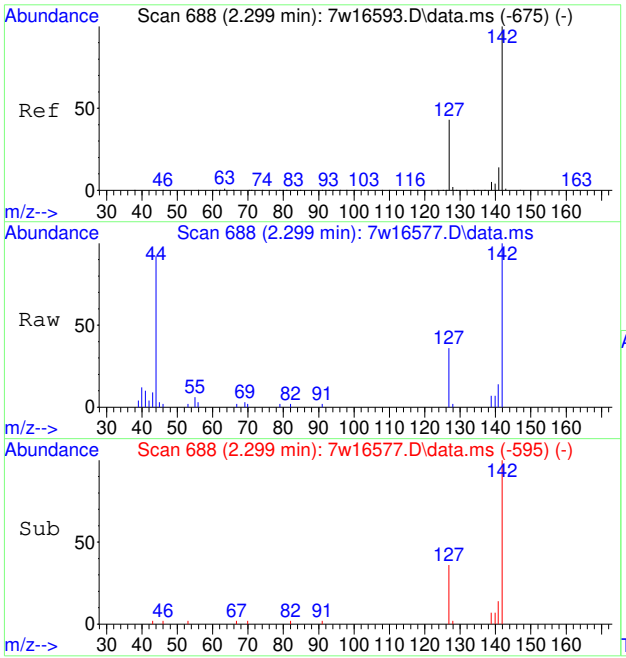


#24
PENTANE
Concen: 0.13 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 42 Resp: 1687

Ion	Ratio	Lower	Upper
42	100		
41	96.6	69.2	128.6
57	46.8	18.6	34.6#

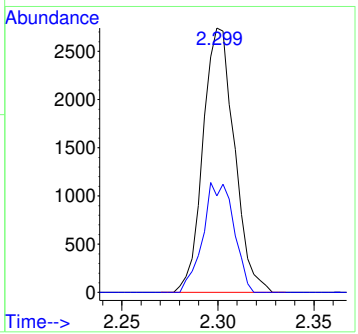


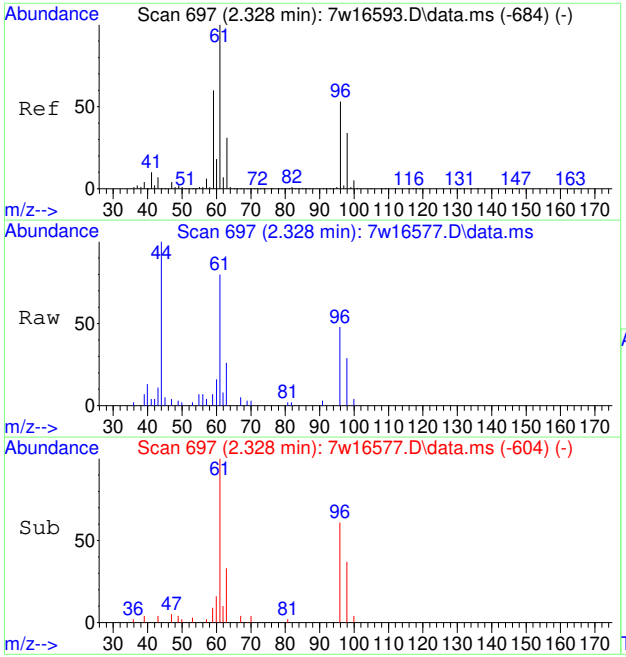


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:142 Resp: 3122

Ion	Ratio	Lower	Upper
142	100		
127	40.9	32.1	59.7

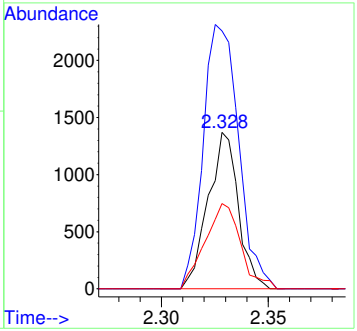


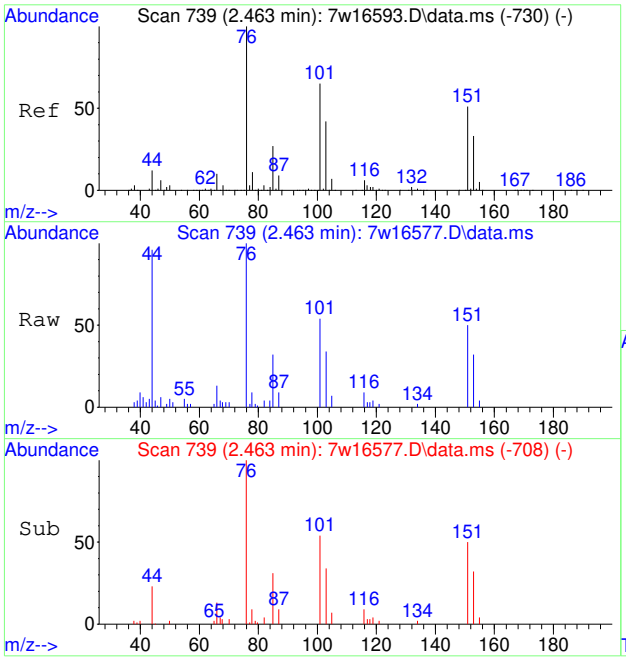


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1351

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	64.3	33.2	61.7#

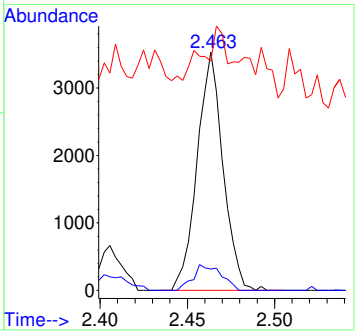


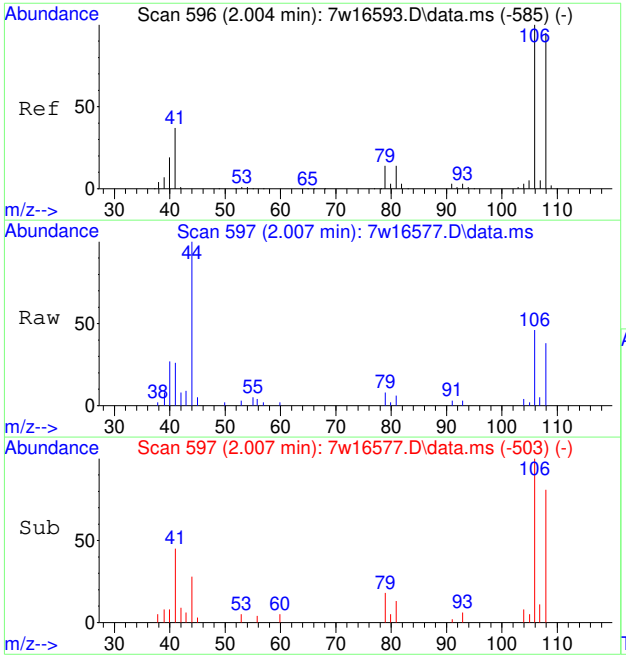


#27
CARBON DISULFIDE
Concen: 0.11 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 3643

Ion	Ratio	Lower	Upper
76	100		
78	11.6	8.3	15.3
44	36.6	13.0	24.1#

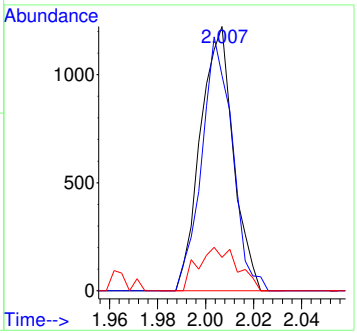


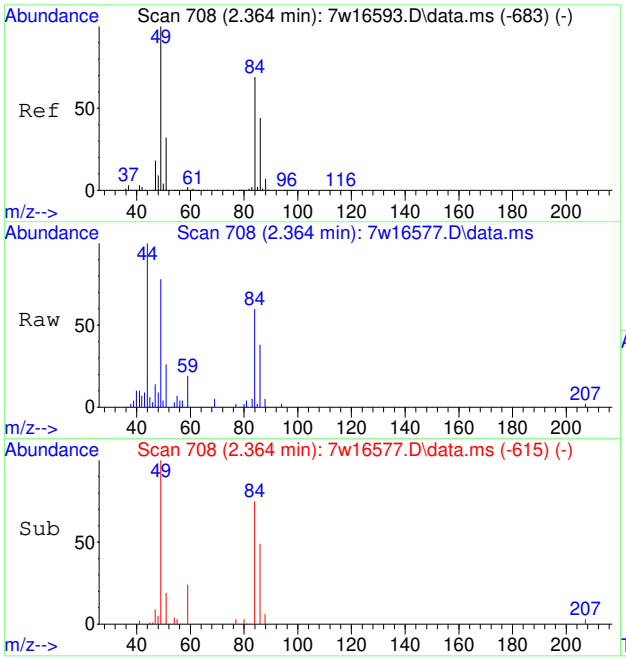


#29
BROMOETHENE
Concen: 0.10 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:106 Resp: 1160

Ion	Ratio	Lower	Upper
106	100		
108	90.0	68.3	126.8
81	20.0	14.7	27.3

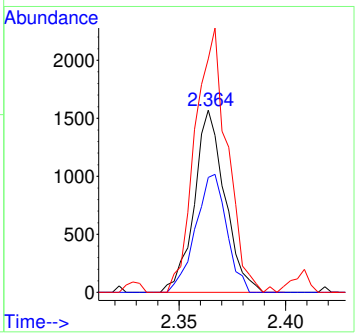


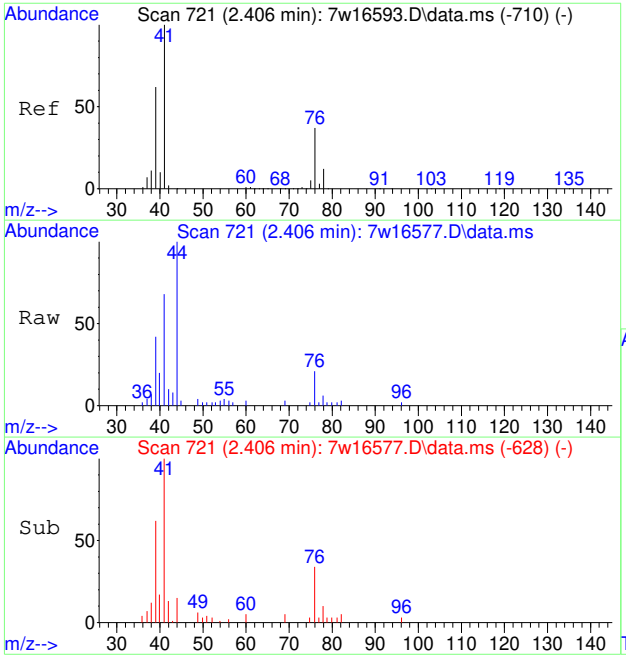


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1574

Ion	Ratio	Lower	Upper
84	100		
86	65.7	44.9	83.5
49	152.7	79.7	148.1#

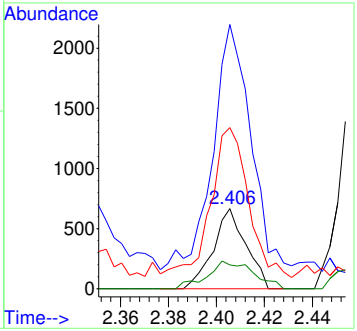


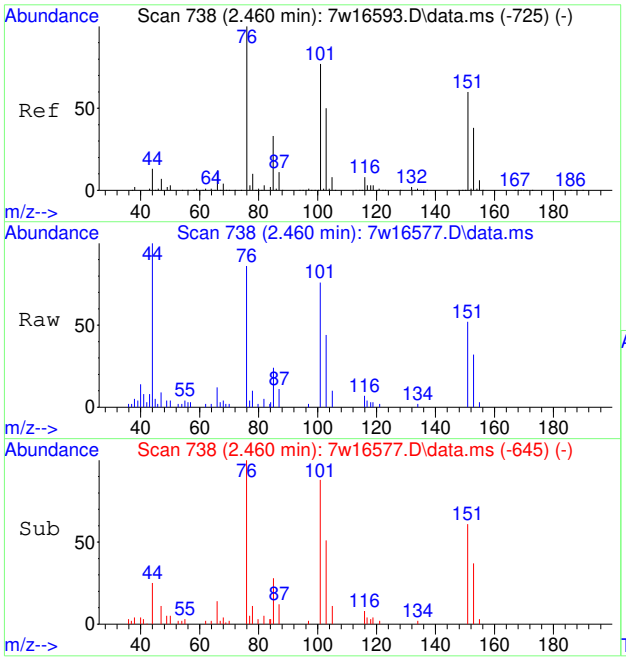


#32
3-CHLOROPROPENE
Concen: 0.10 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 631

Ion	Ratio	Lower	Upper
76	100		
41	375.9	160.9	298.9#
39	221.1	150.7	279.9
78	48.3	22.7	42.1#

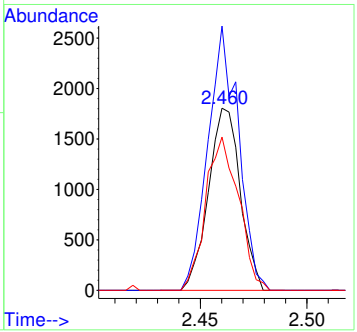


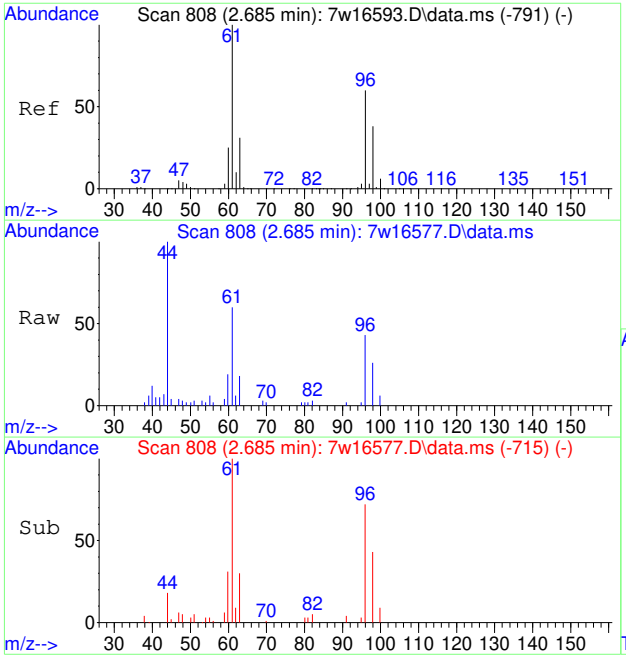


#33
FREON 113
Concen: 0.10 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:151 Resp: 1876

Ion	Ratio	Lower	Upper
151	100		
101	139.1	81.1	150.7
103	86.9	51.4	95.4

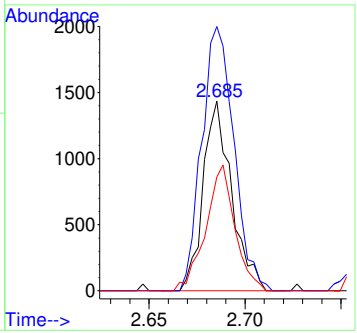


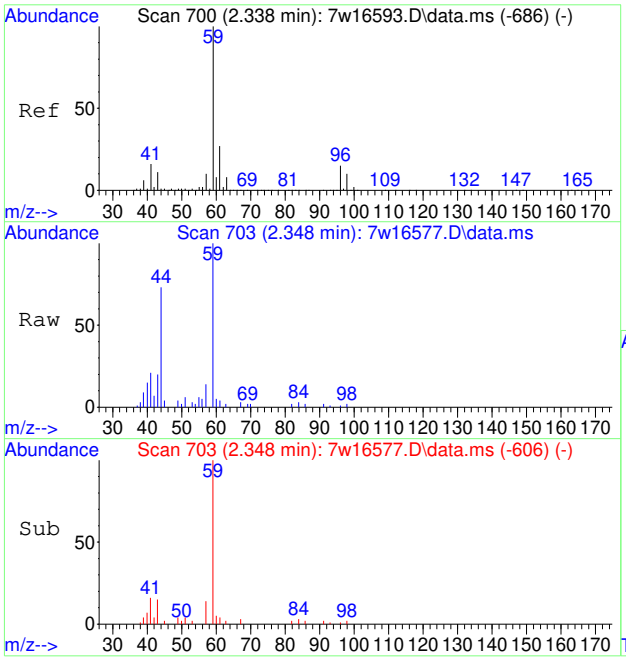


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.12 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1480

Ion	Ratio	Lower	Upper
96	100		
61	157.9	78.5	145.9#
98	67.7	46.5	86.3

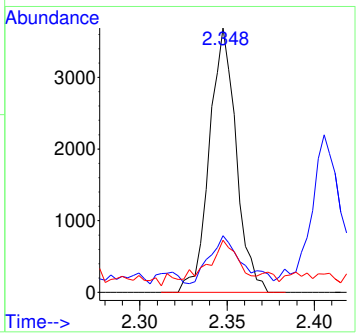


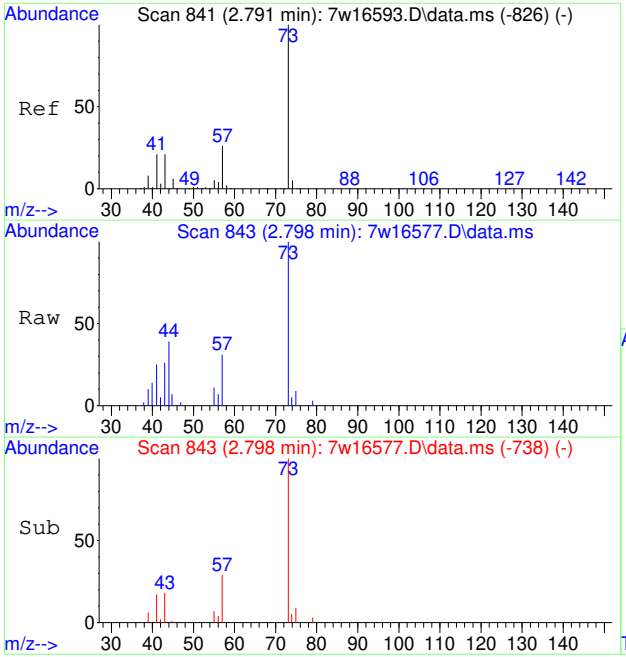


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.12 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 3930

Ion	Ratio	Lower	Upper
59	100		
41	20.7	15.3	28.5
43	26.0	12.3	22.9#

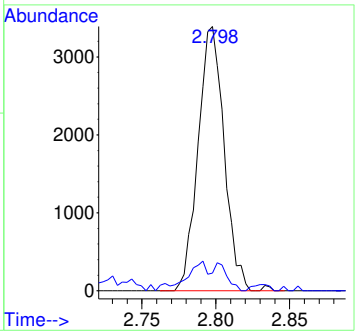


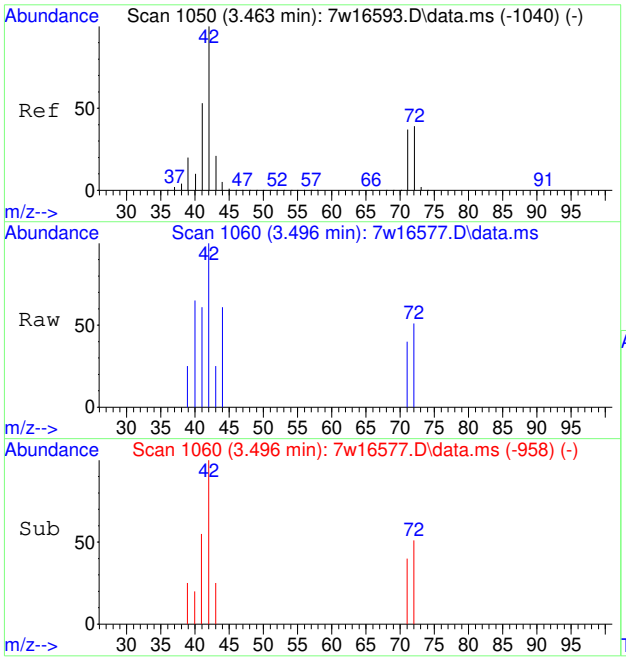


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.11 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 73 Resp: 4162

Ion	Ratio	Lower	Upper
73	100		
45	14.6	3.4	6.4#

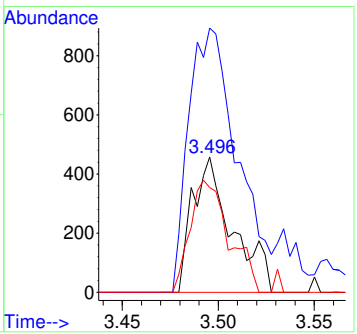


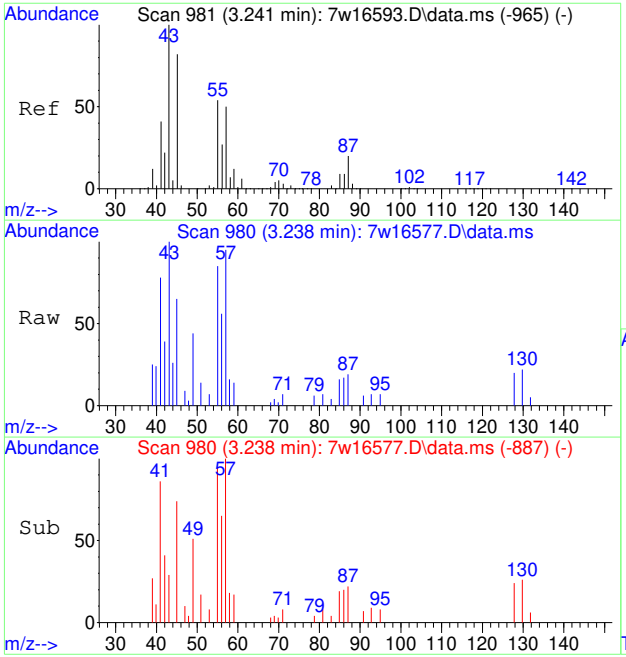


#37
TETRAHYDROFURAN
Concen: 0.11 PPBV
RT: 3.496 min Scan# 1060
Delta R.T. 0.029 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 660

Ion	Ratio	Lower	Upper
72	100		
42	239.2	153.0	284.2
71	81.4	62.7	116.5

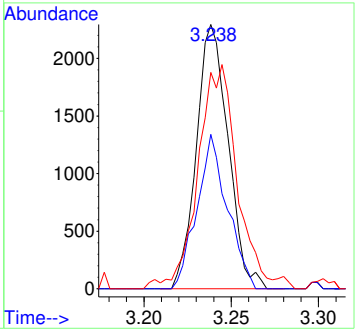


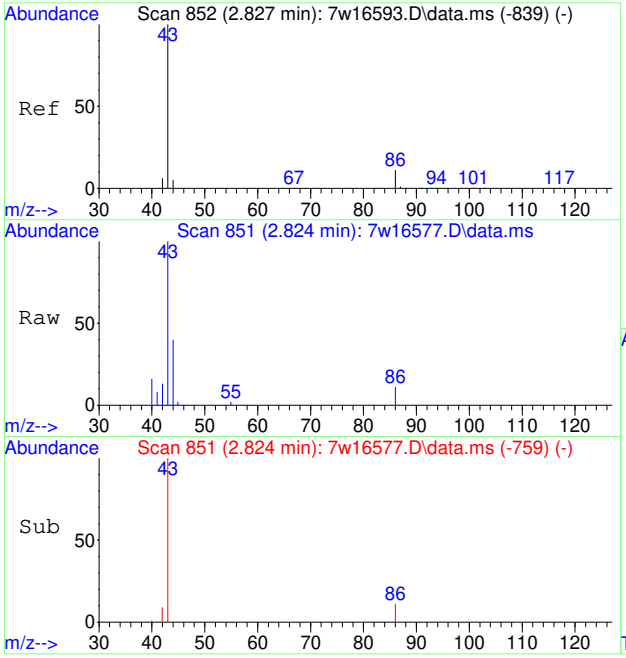


#38
HEXANE
Concen: 0.12 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 2906

Ion	Ratio	Lower	Upper
57	100		
56	55.8	37.3	69.3
41	105.2	86.7	161.1

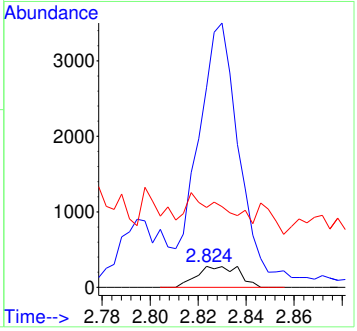


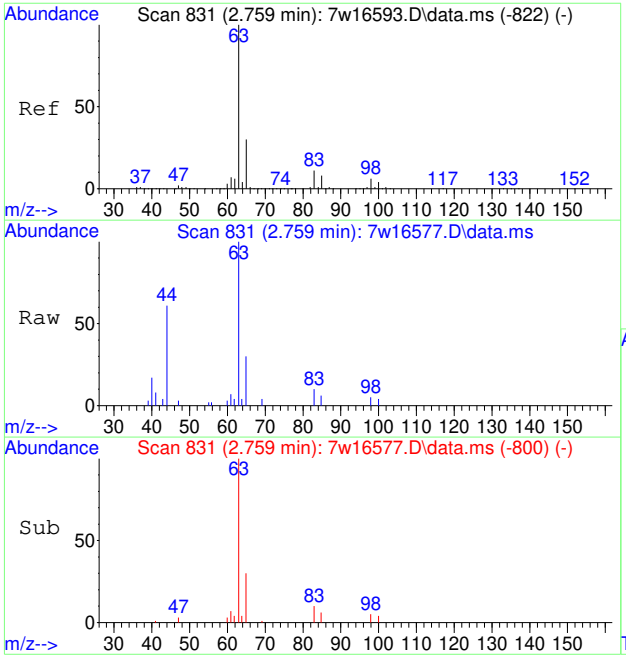


#39
VINYL ACETATE
Concen: 0.10 PPBV
RT: 2.824 min Scan# 851
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 86 Resp: 343

Ion	Ratio	Lower	Upper
86	100		
43	1525.9	667.9	1240.3#
44	241.7	32.7	60.7#

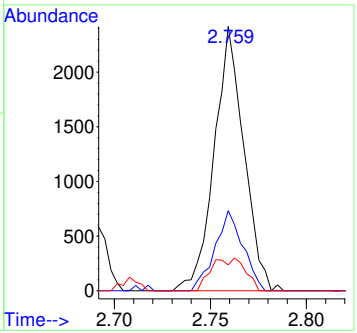


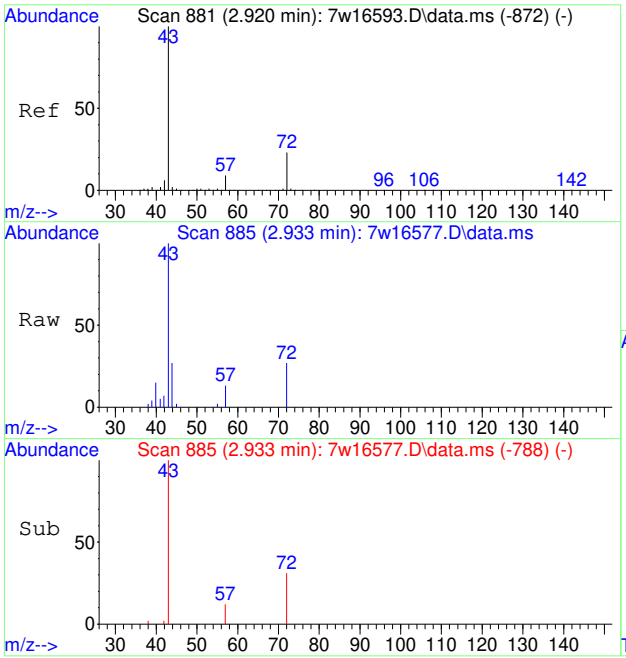


#40
1,1-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 2595

Ion	Ratio	Lower	Upper
63	100		
65	28.6	21.8	40.6
83	14.2	10.6	19.6

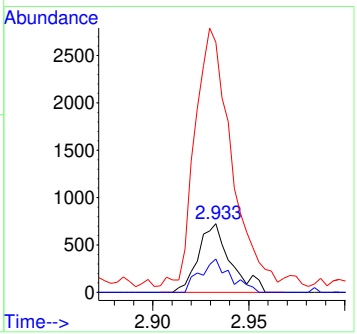


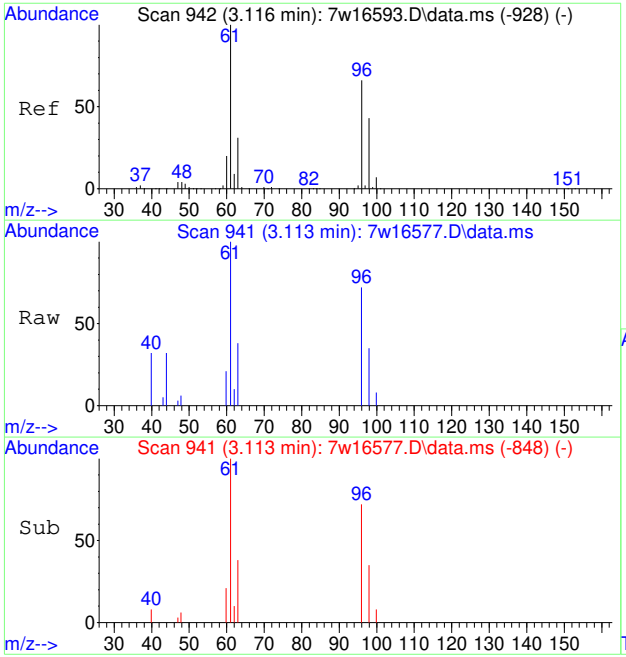


#41
METHYL ETHYL KETONE
Concen: 0.13 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 844

Ion	Ratio	Lower	Upper
72	100		
57	45.5	20.3	37.7#
43	437.0	282.8	525.2

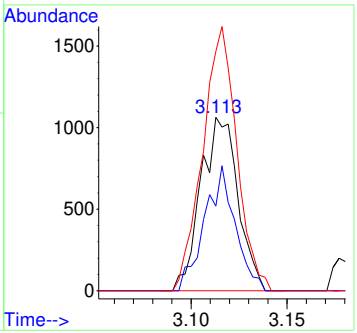


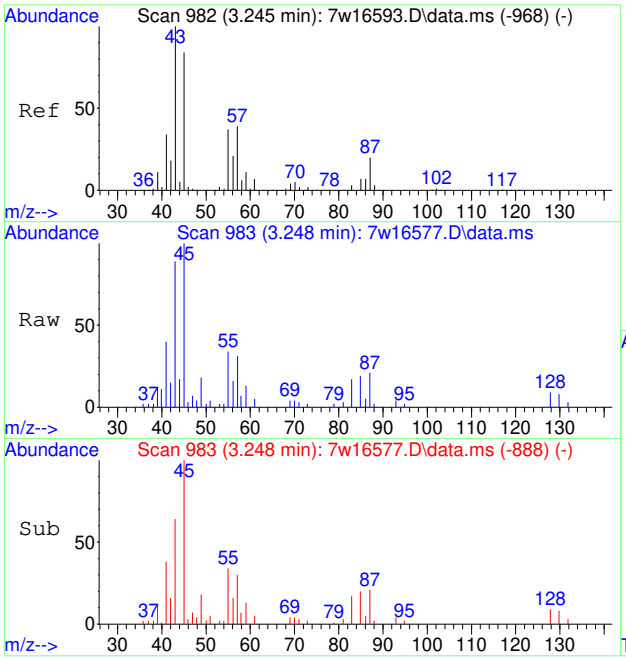


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.11 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1430

Ion	Ratio	Lower	Upper
96	100		
98	59.2	46.8	86.8
61	140.1	78.3	145.5

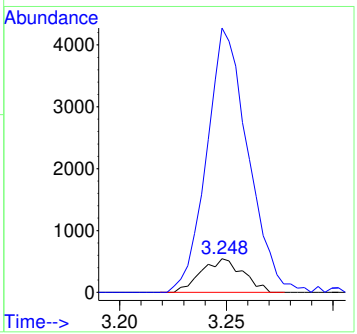


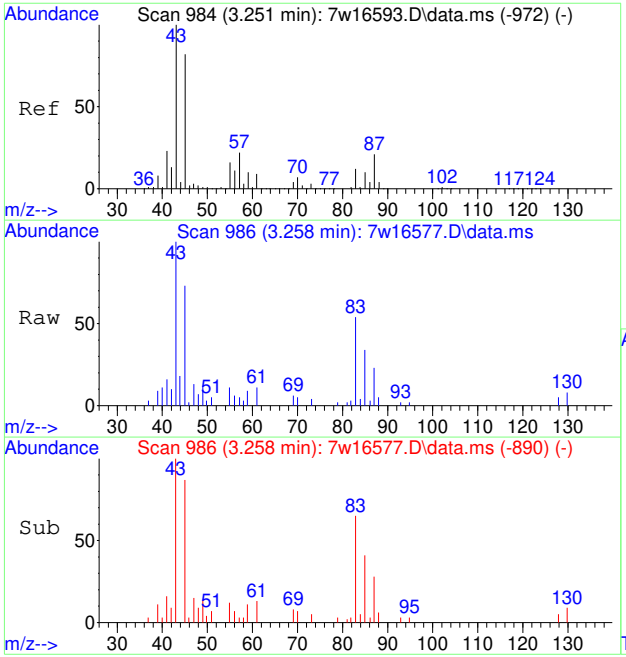


#43
DIISOPROPYL ETHER
Concen: 0.11 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 742

Ion	Ratio	Lower	Upper
59	100		
45	777.4	532.1	988.1

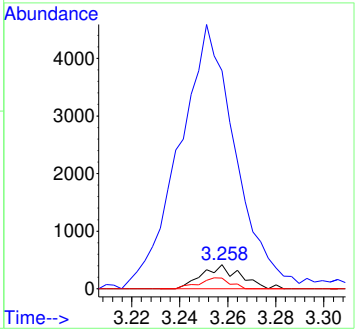


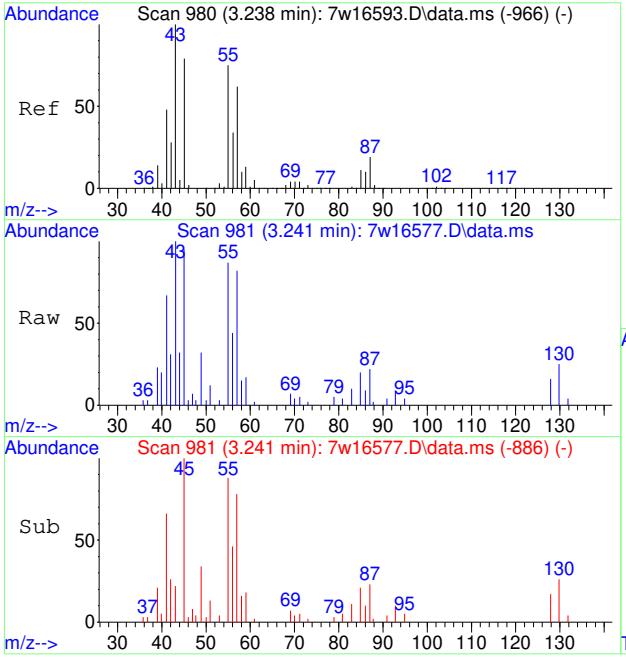


#44
ETHYL ACETATE
Concen: 0.09 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 61 Resp: 462

Ion	Ratio	Lower	Upper
61	100		
43	1690.7	1127.5	2093.9
88	36.8	36.2	67.2

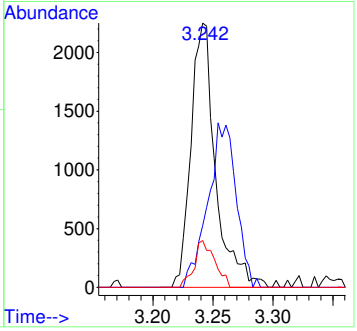


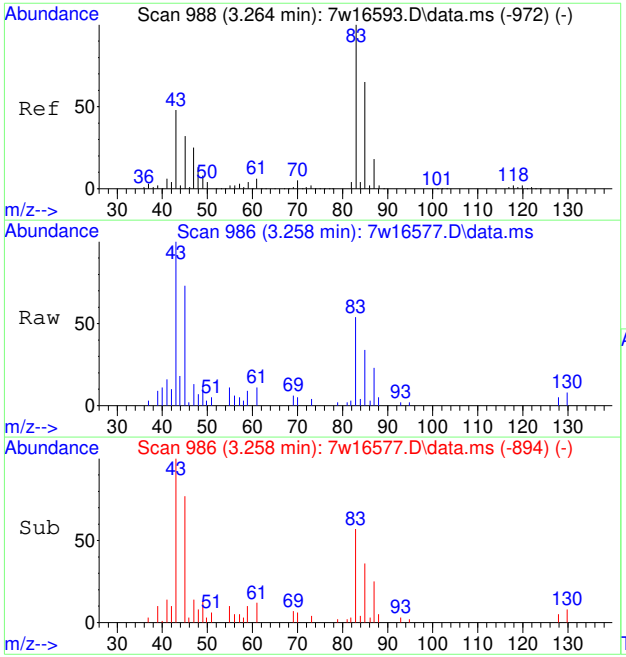


#45
METHYL ACRYLATE
Concen: 0.11 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3222

Ion	Ratio	Lower	Upper
55	100		
85	71.3	0.0	0.0#
58	14.6	9.2	17.0

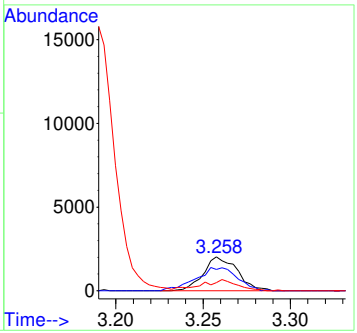


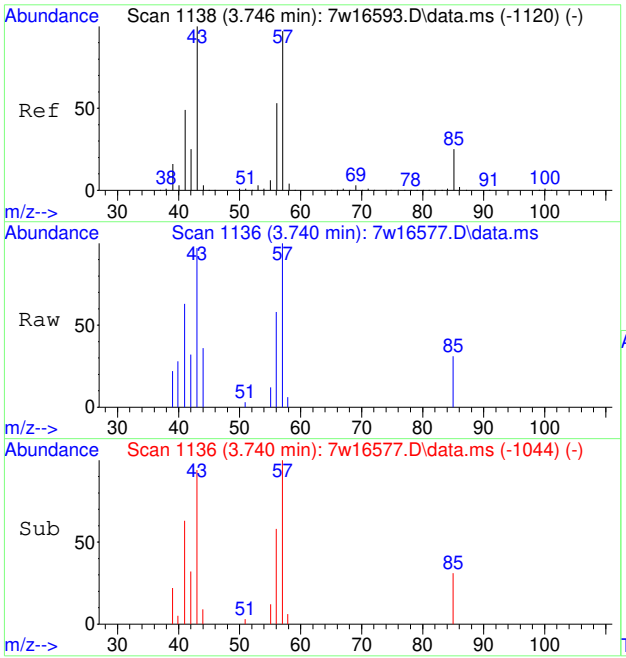


#46
CHLOROFORM
Concen: 0.10 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2745

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	35.4	17.9	33.3#

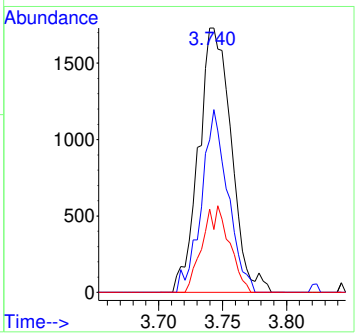


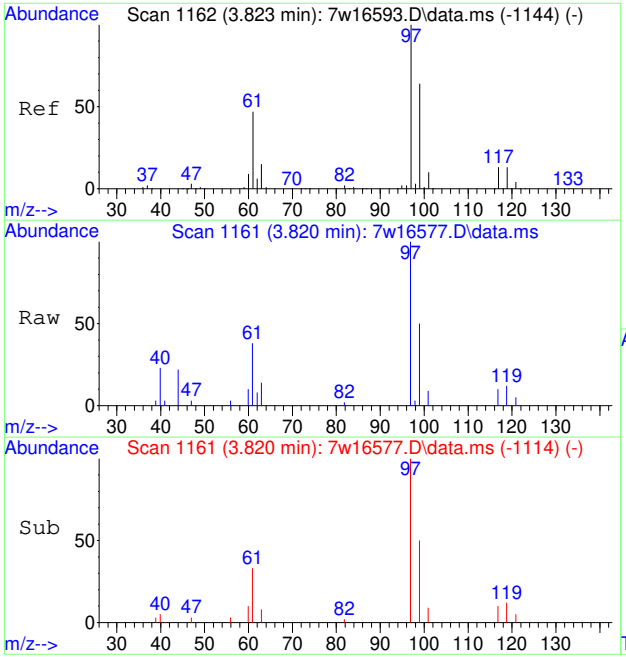


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 3064

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	27.2	24.1	44.7

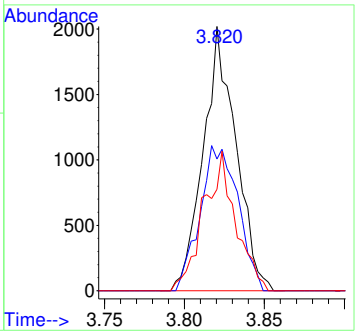


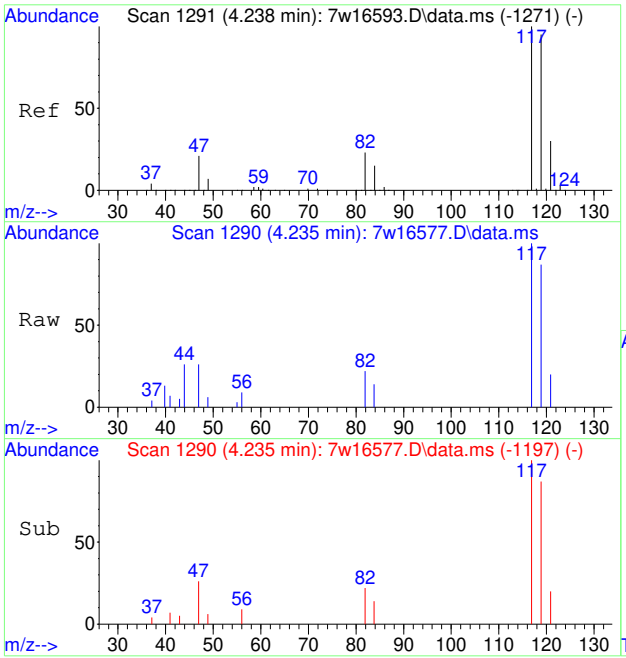


#48
1,1,1-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 97 Resp: 2869

Ion	Ratio	Lower	Upper
97	100		
99	63.8	44.9	83.5
61	51.8	28.6	53.0

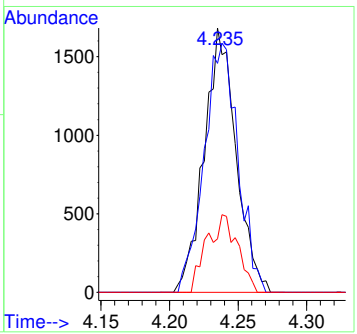


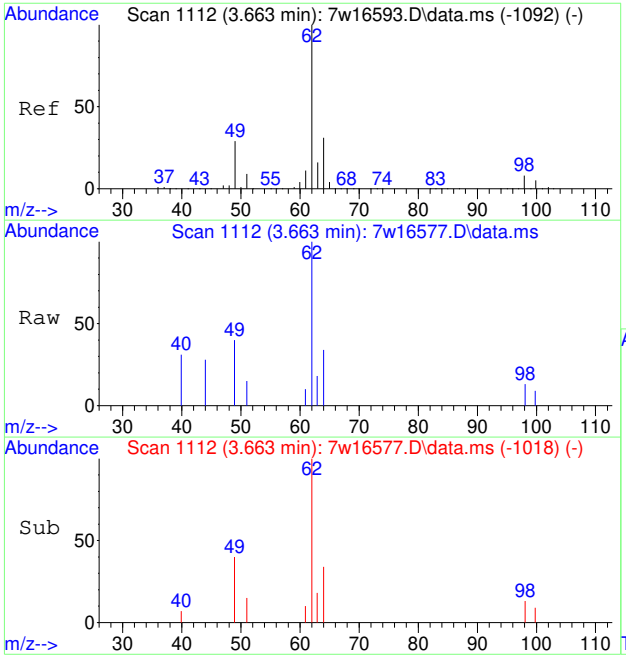


#49
CARBON TETRACHLORIDE
Concen: 0.09 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2721

Ion	Ratio	Lower	Upper
117	100		
119	100.0	68.8	127.8
121	28.2	22.2	41.2

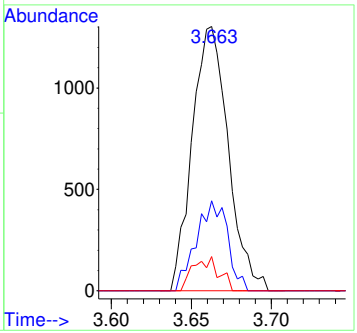


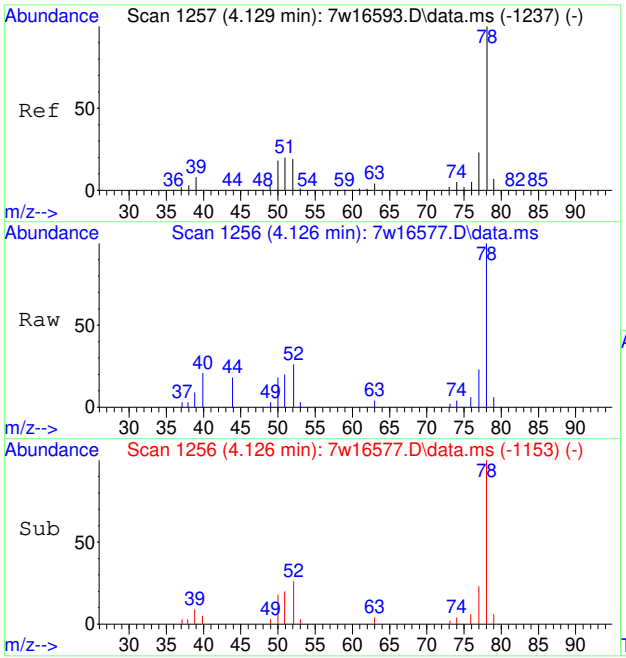


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 2043

Ion	Ratio	Lower	Upper
62	100		
64	29.5	22.5	41.7
98	9.2	6.8	12.6

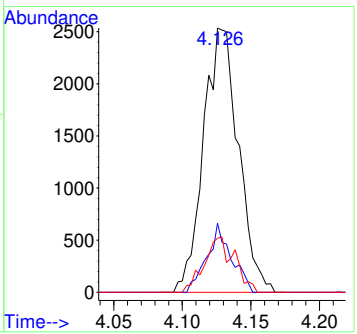


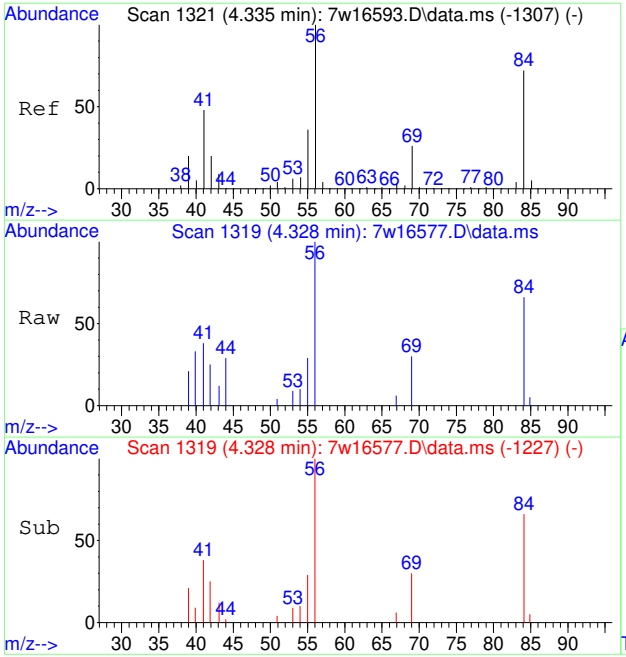


#51
BENZENE
Concen: 0.12 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 78 Resp: 4491

Ion	Ratio	Lower	Upper
78	100		
52	18.1	0.0	44.6
51	18.1	0.0	47.3

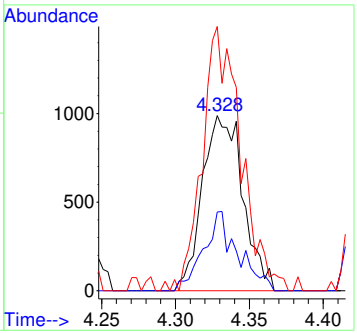


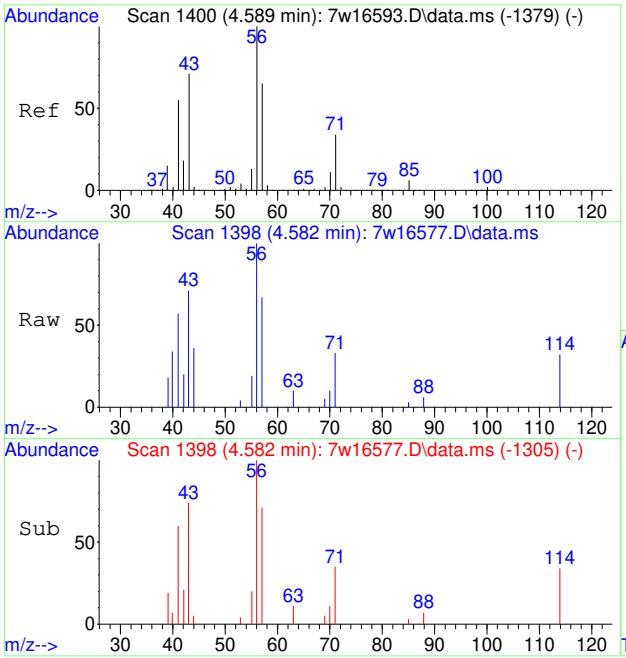


#53
CYCLOHEXANE
Concen: 0.11 PPBV
RT: 4.328 min Scan# 1319
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1883

Ion	Ratio	Lower	Upper
84	100		
69	37.8	22.3	41.5
56	143.3	70.2	130.4#

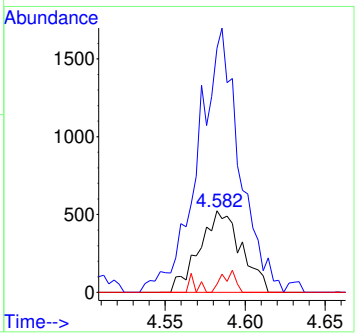


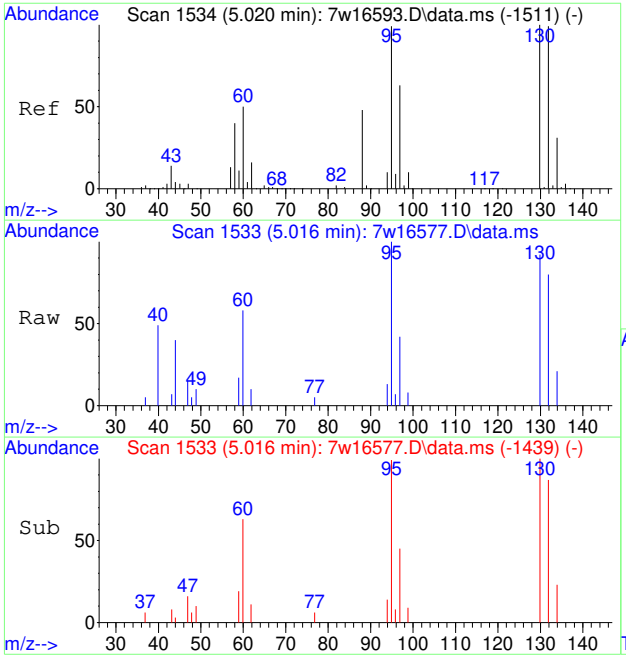


#54
2,3-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 71 Resp: 954

Ion	Ratio	Lower	Upper
71	100		
56	327.5	171.4	318.4#
85	8.9	12.6	23.4#

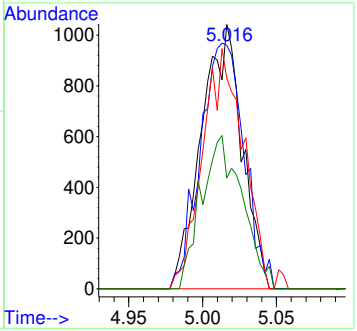


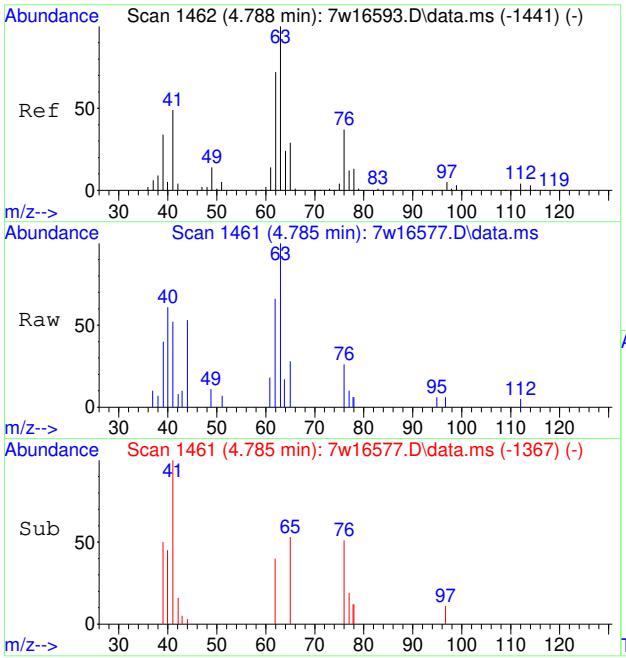


#55
TRICHLOROETHENE
Concen: 0.11 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 95 Resp: 1997

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	92.2	79.4	147.4
97	58.3	45.0	83.6

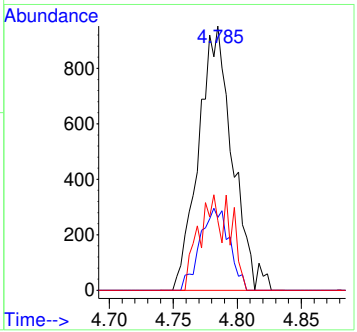


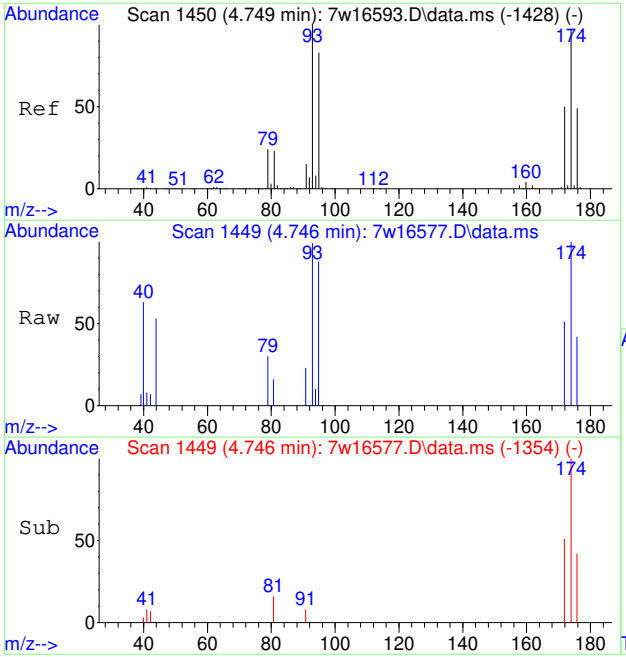


#56
1,2-DICHLOROPROPANE
Concen: 0.11 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 1753

Ion	Ratio	Lower	Upper
63	100		
65	26.8	22.6	42.0
76	32.9	31.8	59.0

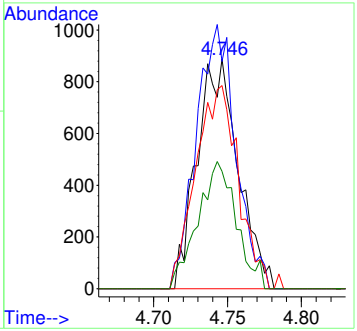


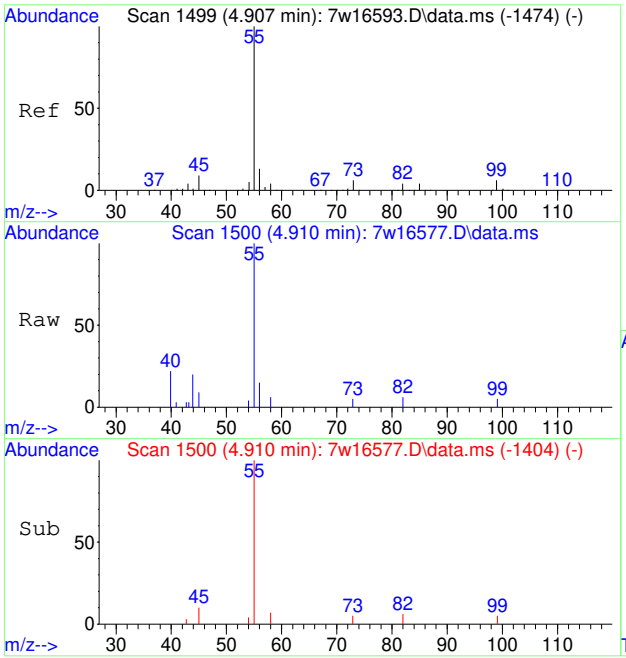


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:174 Resp: 1723

Ion	Ratio	Lower	Upper
174	100		
93	110.2	67.3	125.1
95	91.9	56.8	105.6
172	51.7	36.3	67.5

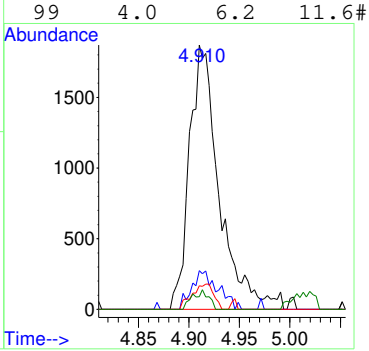


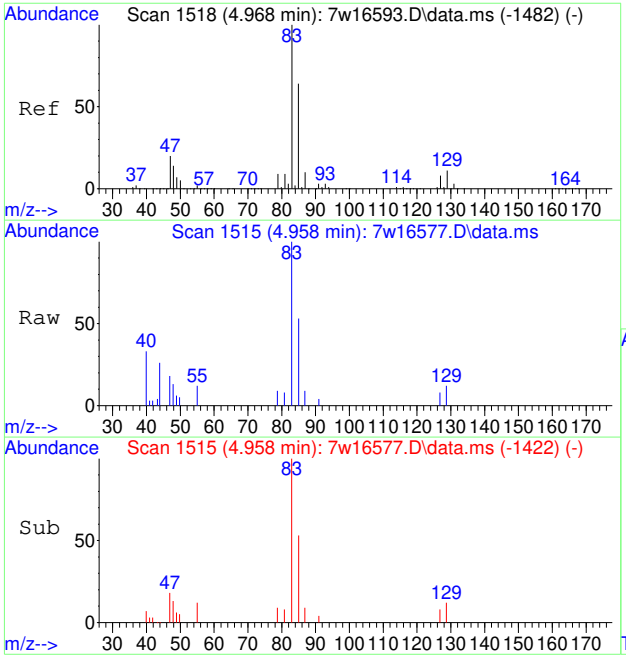


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV
RT: 4.910 min Scan# 1500
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3841

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	7.6	6.6	12.2
99	4.0	6.2	11.6#

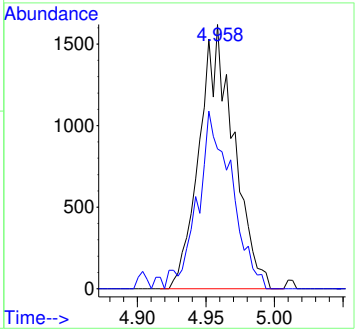


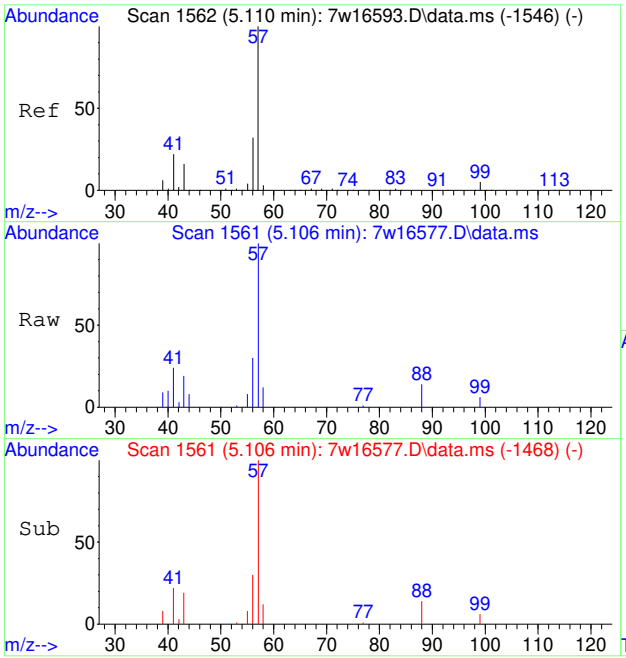


#59
BROMODICHLOROMETHANE
Concen: 0.09 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2818

Ion	Ratio	Lower	Upper
83	100		
85	67.7	44.9	83.5

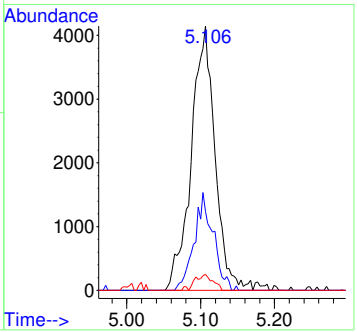


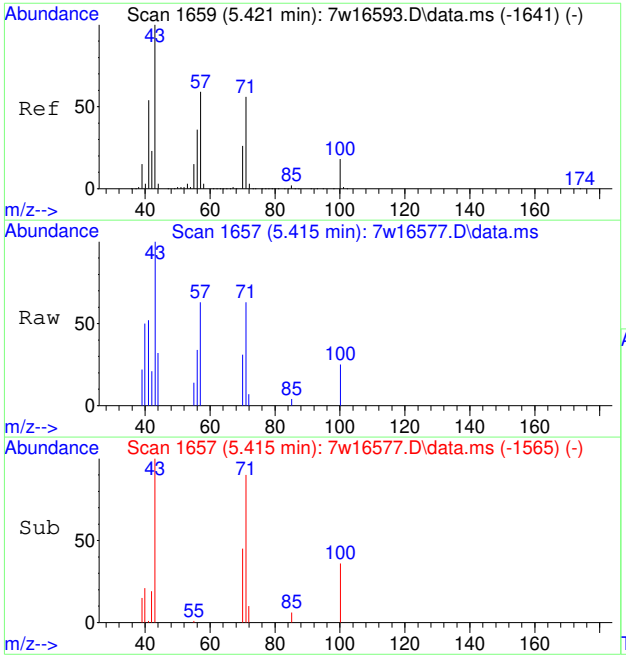


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.12 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 9397

Ion	Ratio	Lower	Upper
57	100		
56	29.2	24.4	45.2
99	4.5	5.2	9.6#

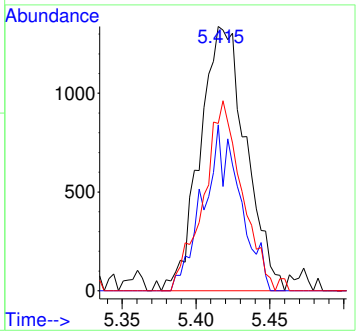


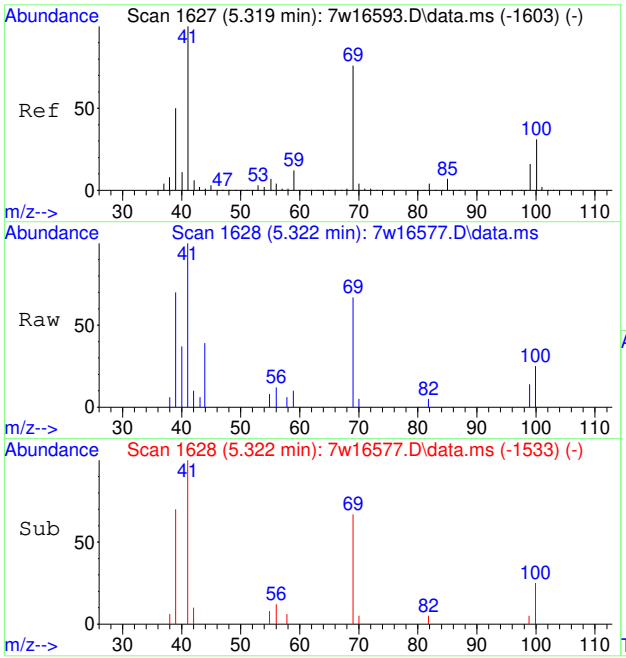


#62
HEPTANE
Concen: 0.11 PPBV
RT: 5.415 min Scan# 1657
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2892

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	60.8	37.2	69.0

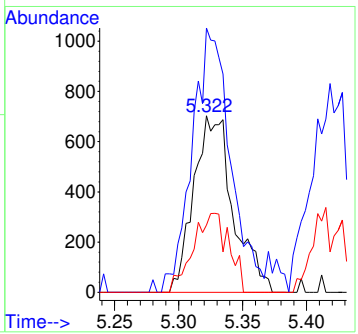


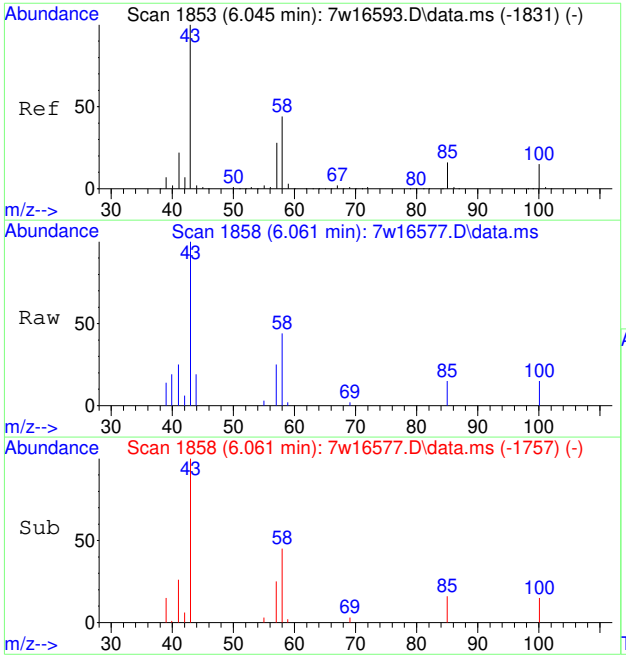


#63
METHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 1510

Ion	Ratio	Lower	Upper
69	100		
41	151.7	84.3	156.5
100	40.5	30.8	57.2

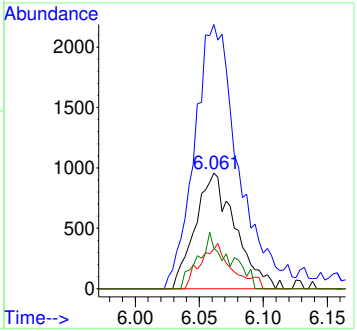


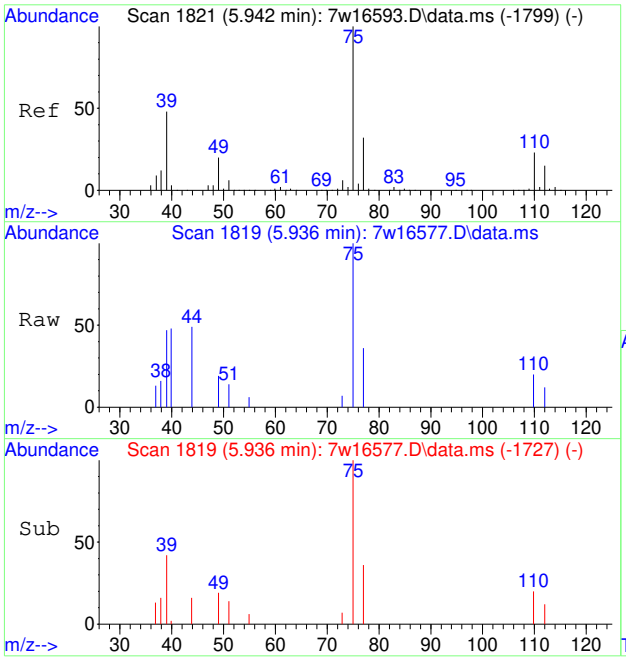


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 6.061 min Scan# 1858
Delta R.T. 0.026 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 2096

Ion	Ratio	Lower	Upper
58	100		
43	258.2	193.8	360.0
100	30.6	32.8	60.8#
85	37.5	33.3	61.9

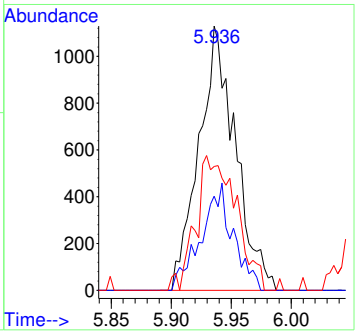


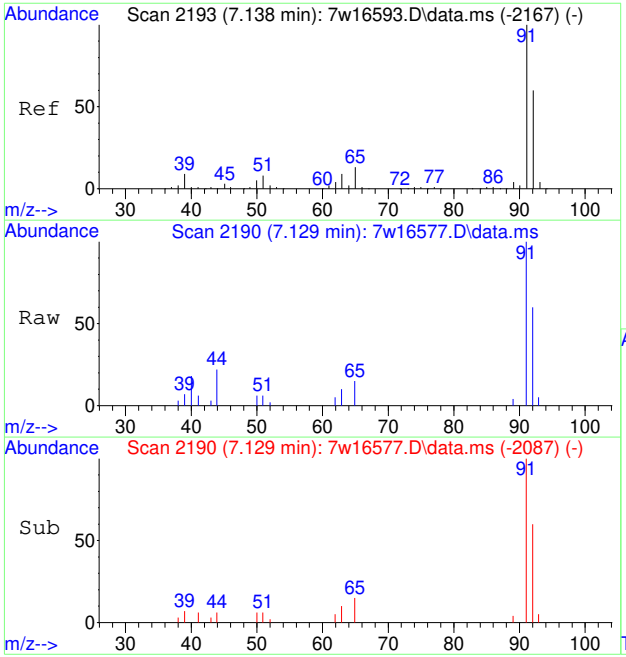


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.09 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2385

Ion	Ratio	Lower	Upper
75	100		
77	35.4	22.0	40.8
39	55.9	38.5	71.5

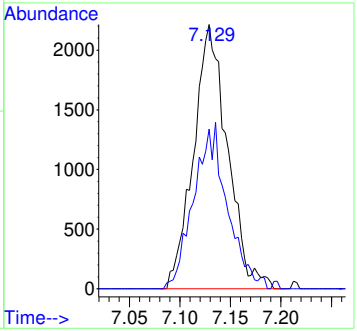


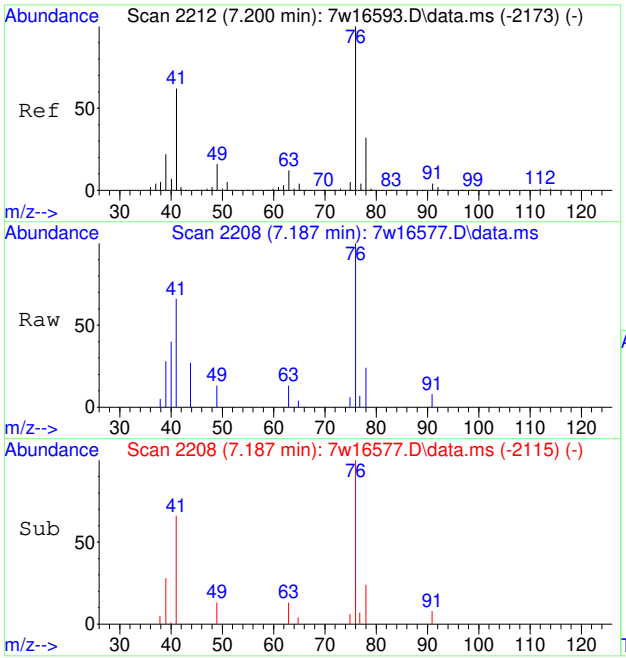


#66
TOLUENE
Concen: 0.11 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5187

Ion	Ratio	Lower	Upper
91	100		
92	62.0	28.1	88.1

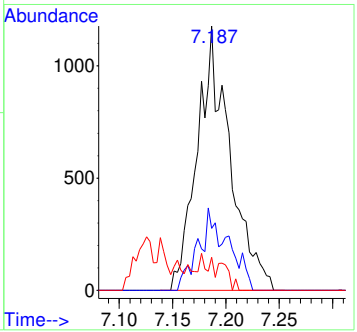


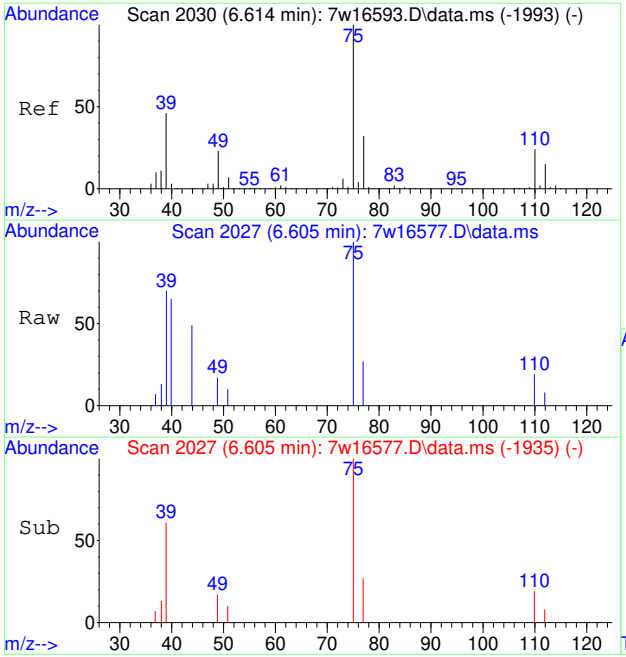


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 2497

Ion	Ratio	Lower	Upper
76	100		
78	28.4	22.1	41.1
63	7.7	8.0	14.8#

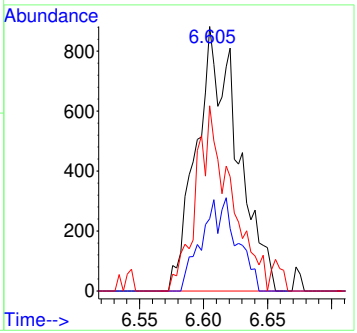


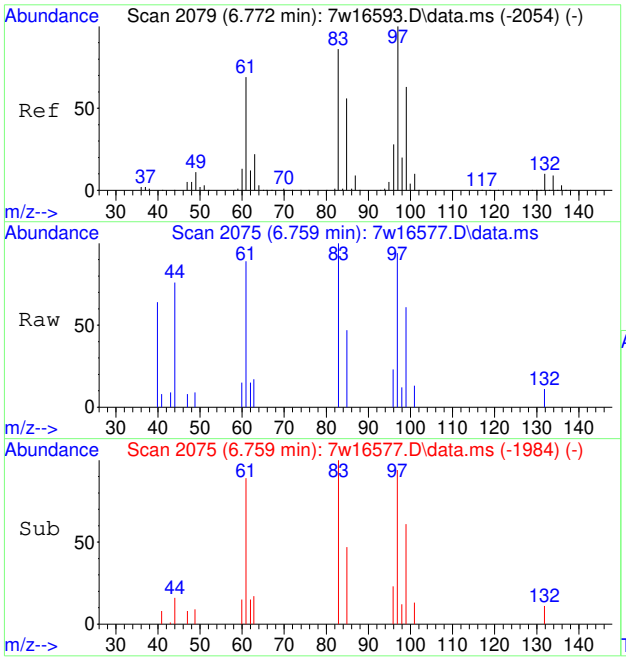


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.08 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 1972

Ion	Ratio	Lower	Upper
75	100		
77	30.0	22.5	41.7
39	59.3	37.2	69.0

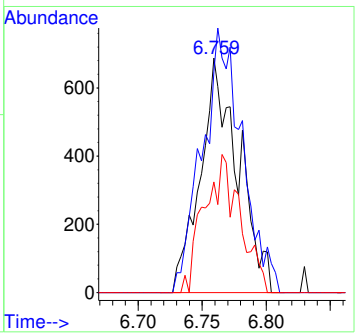


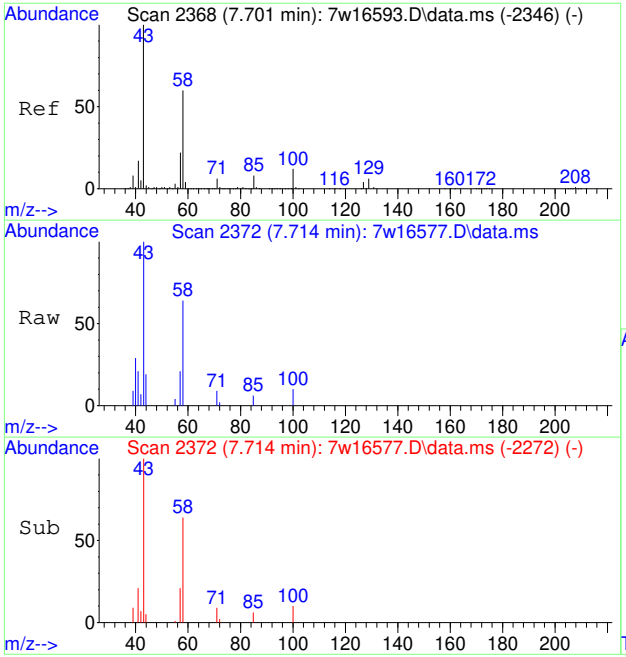


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 6.759 min Scan# 2075
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 1417

Ion	Ratio	Lower	Upper
83	100		
97	118.6	86.7	160.9
85	55.3	45.5	84.5

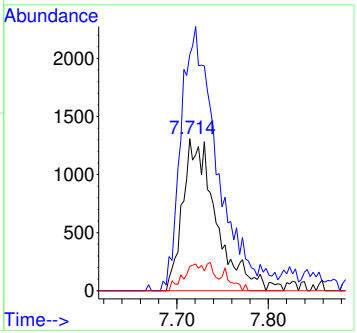


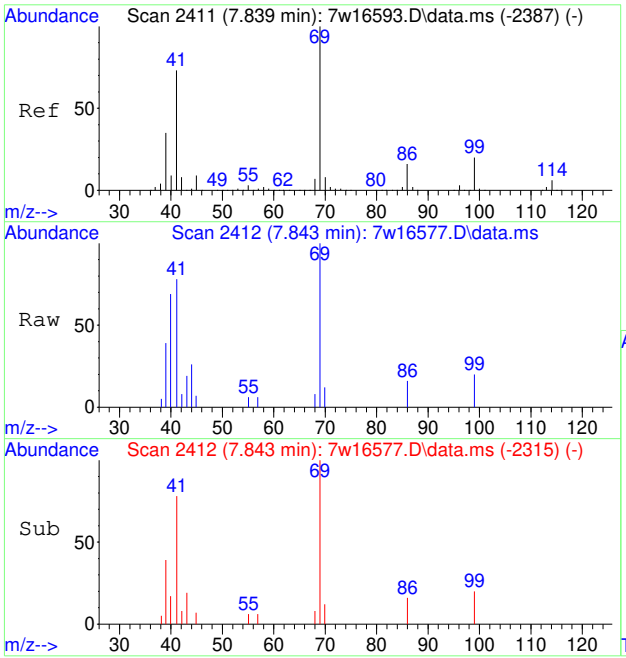


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.714 min Scan# 2372
Delta R.T. 0.023 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 3348

Ion	Ratio	Lower	Upper
58	100		
43	190.0	141.7	263.3
100	0.0	18.9	35.1#

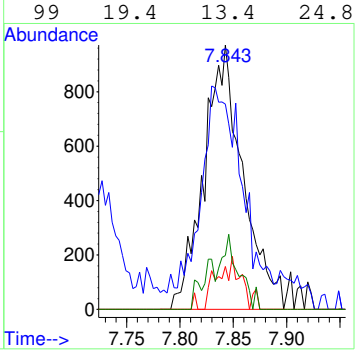


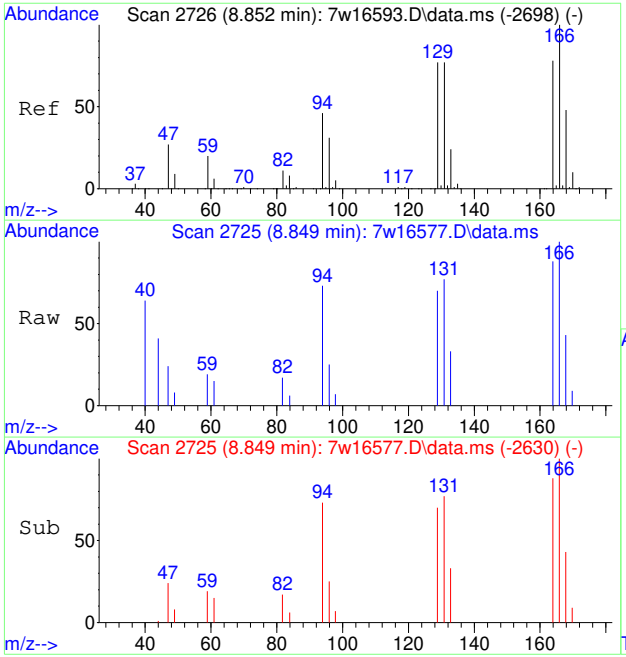


#71
ETHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 2476

Ion	Ratio	Lower	Upper
69	100		
41	101.2	49.3	91.6#
86	12.9	11.6	21.6
99	19.4	13.4	24.8

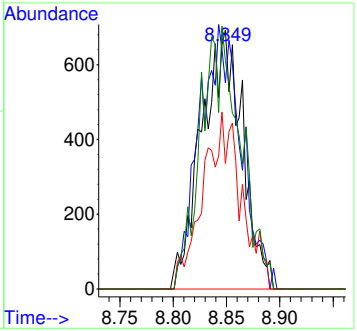


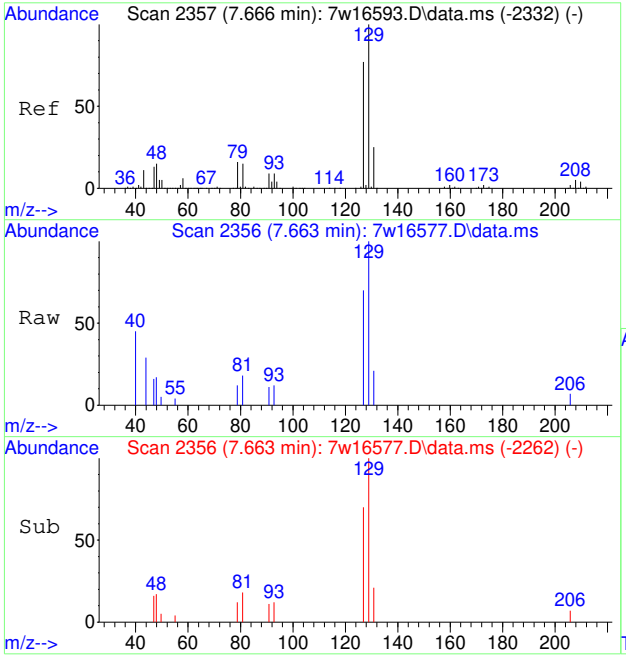


#72
TETRACHLOROETHENE
Concen: 0.11 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:164 Resp: 1845

Ion	Ratio	Lower	Upper
164	100		
129	103.4	69.7	129.5
168	63.9	43.4	80.6
131	98.6	67.1	124.5

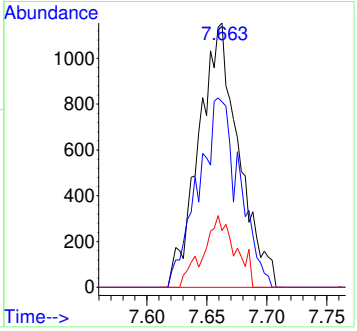


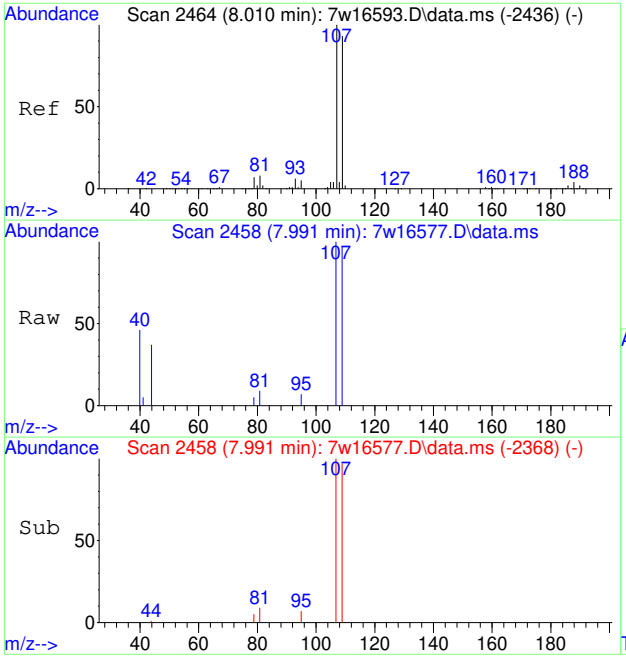


#73
DIBROMOCHLOROMETHANE
Concen: 0.09 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:129 Resp: 2664

Ion	Ratio	Lower	Upper
129	100		
127	73.7	53.0	98.4
131	21.8	16.9	31.3

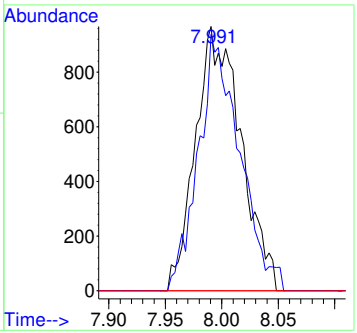


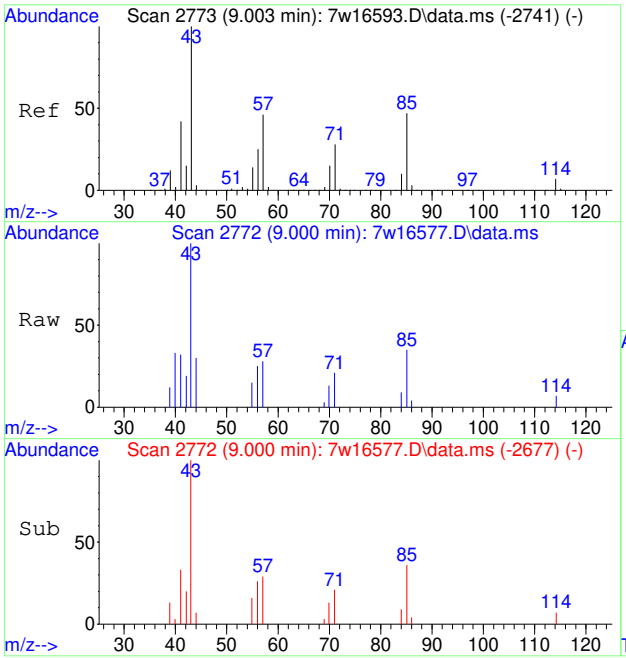


#74
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 7.991 min Scan# 2458
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:107 Resp: 2697

Ion	Ratio	Lower	Upper
107	100		
109	88.3	65.7	122.1
188	0.0	2.4	4.4#

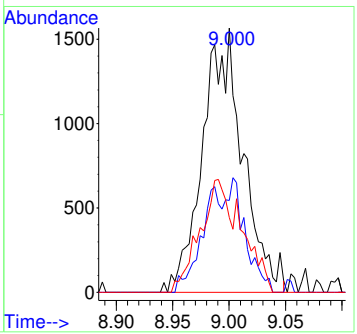


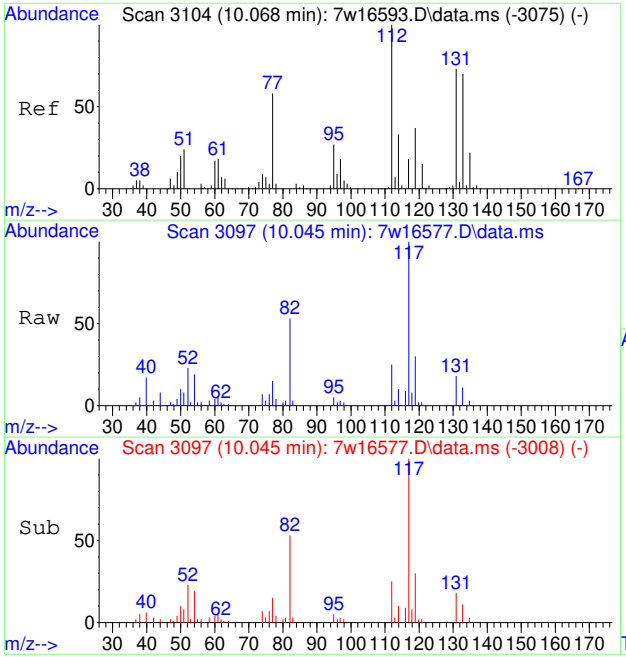


#75
OCTANE
Concen: 0.11 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
85	42.0	36.5	67.9
57	44.2	27.6	51.2

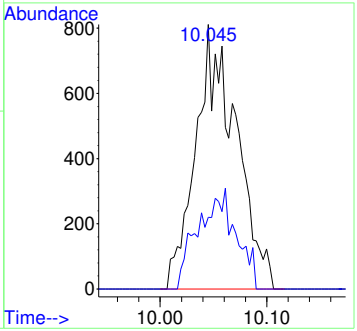


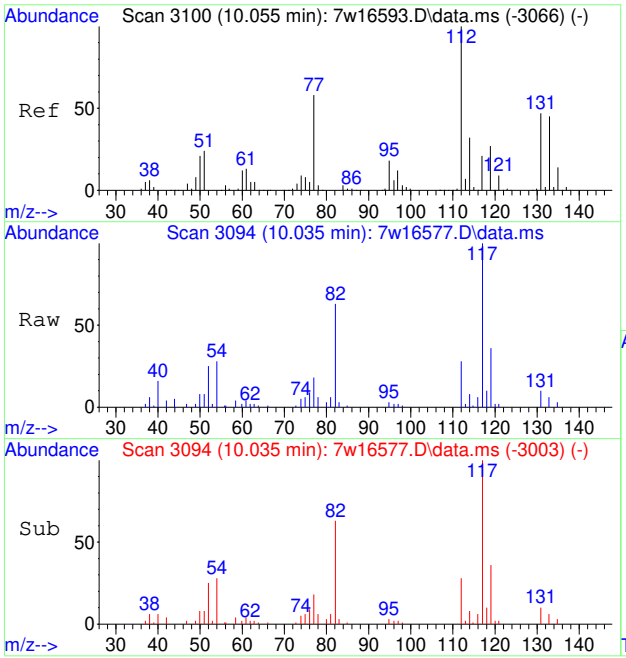


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:131 Resp: 2123

Ion	Ratio	Lower	Upper
131	100		
95	35.4	23.7	43.9

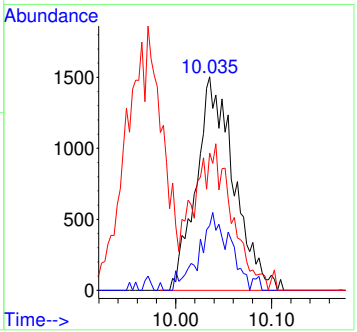


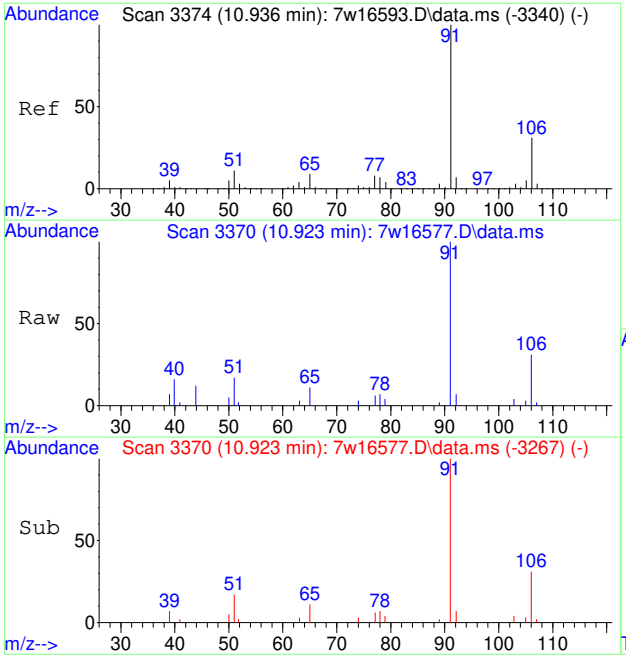


#78
CHLOROBENZENE
Concen: 0.11 PPBV
RT: 10.035 min Scan# 3094
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:112 Resp: 4090

Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.9	42.5
77	71.1	34.4	63.8#

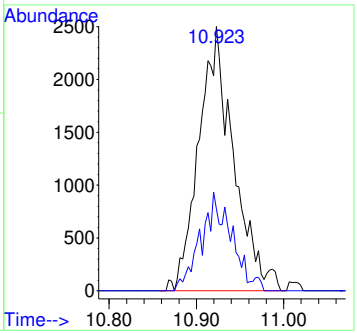


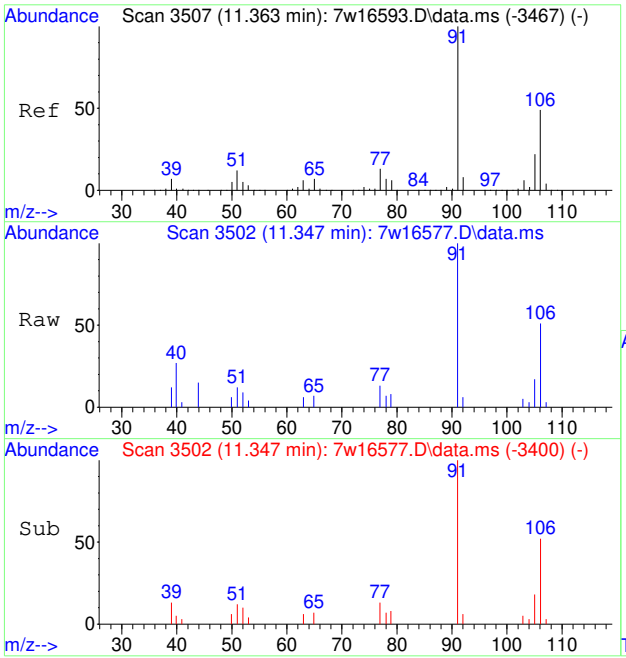


#79
ETHYLBENZENE
Concen: 0.11 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 6930

Ion	Ratio	Lower	Upper
91	100		
106	32.8	2.8	62.8

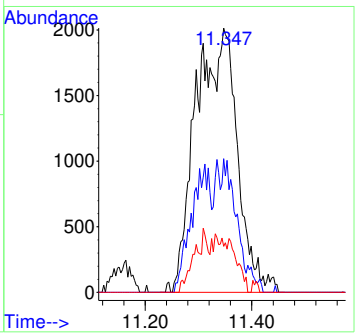


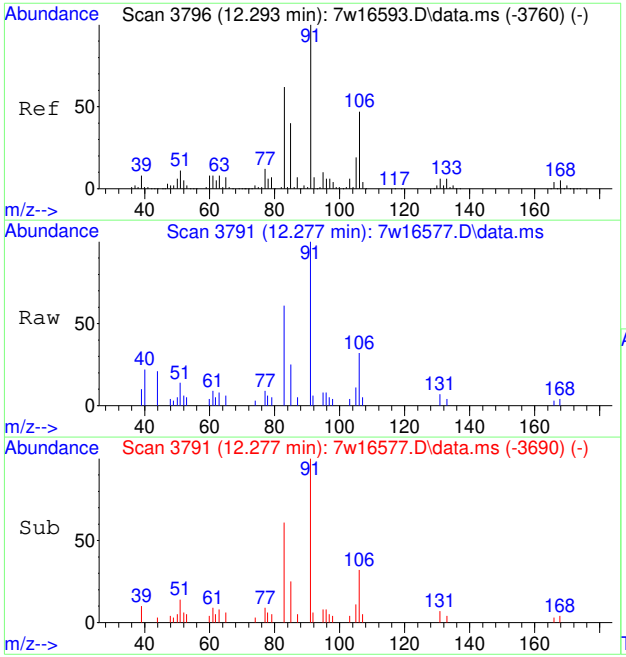


#80
M,P-XYLENE
Concen: 0.22 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 10889

Ion	Ratio	Lower	Upper
91	100		
106	26.3	0.0	58.7
105	0.0	0.0	43.2

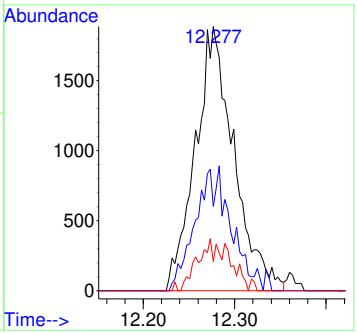


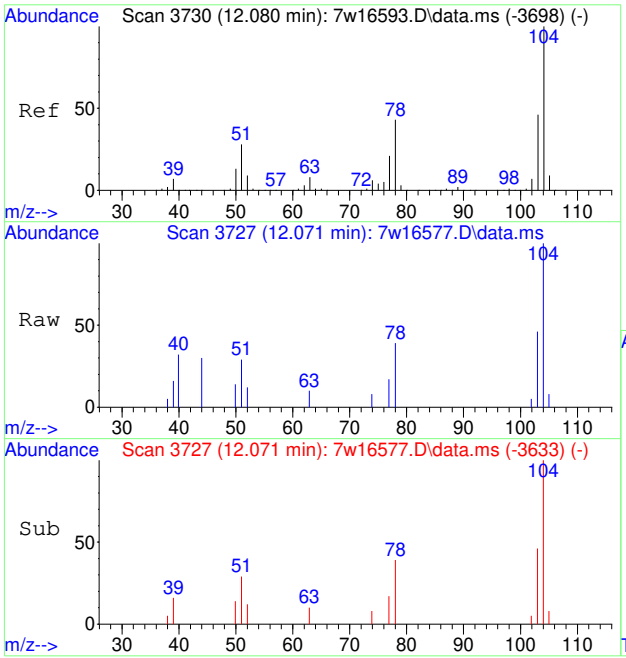


#81
O-XYLENE
Concen: 0.11 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5536

Ion	Ratio	Lower	Upper
91	100		
106	31.9	34.1	63.3#
105	11.1	14.6	27.2#

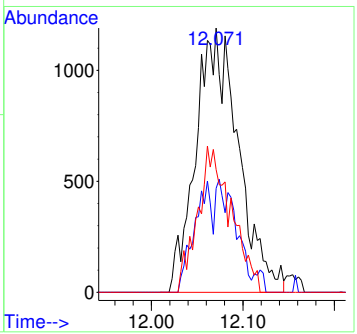


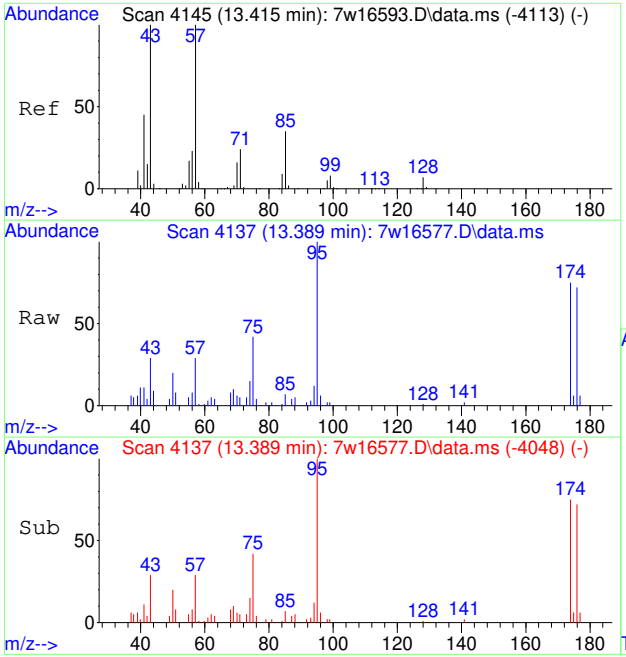


#82
STYRENE
Concen: 0.10 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:104 Resp: 3856

Ion	Ratio	Lower	Upper
104	100		
78	22.0	25.3	46.9#
103	0.0	33.2	61.7#

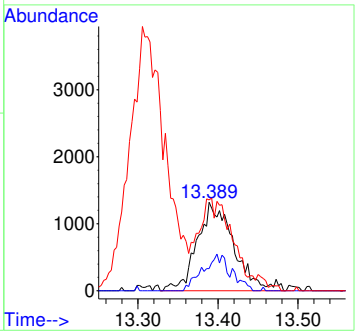


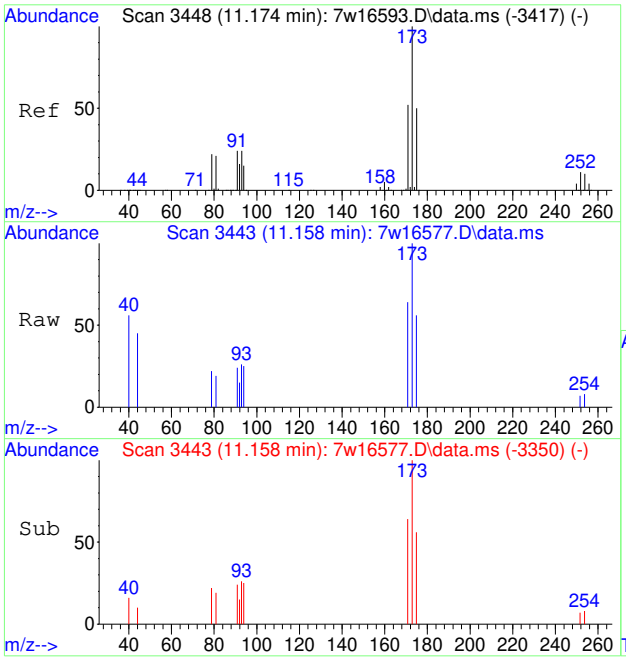


#83
NONANE
Concen: 0.11 PPBV
RT: 13.389 min Scan# 4137
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 4193

Ion	Ratio	Lower	Upper
43	100		
85	31.9	27.6	51.2
57	100.3	56.4	104.7

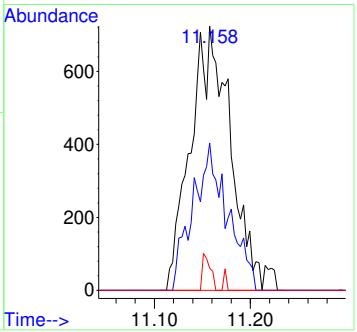


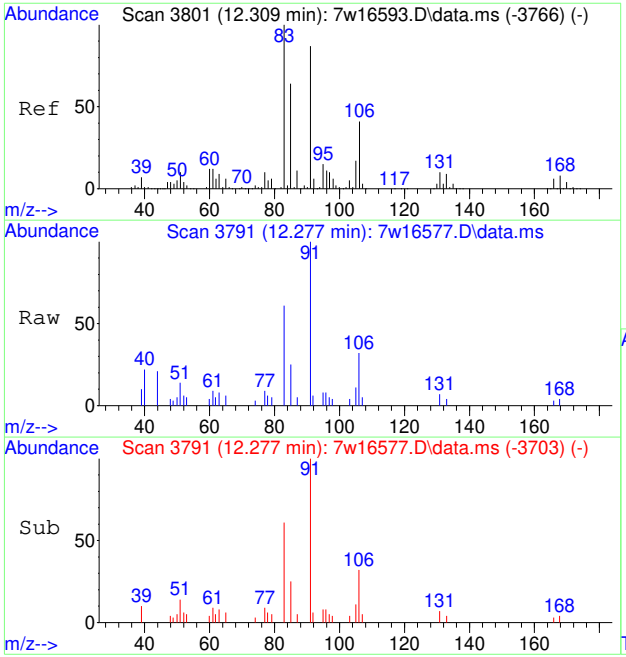


#84
BROMOFORM
Concen: 0.08 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:173 Resp: 2131

Ion	Ratio	Lower	Upper
173	100		
175	47.8	33.0	61.4
254	2.7	5.9	10.9#

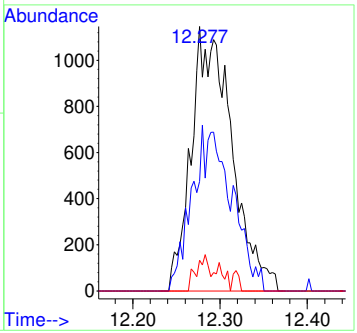


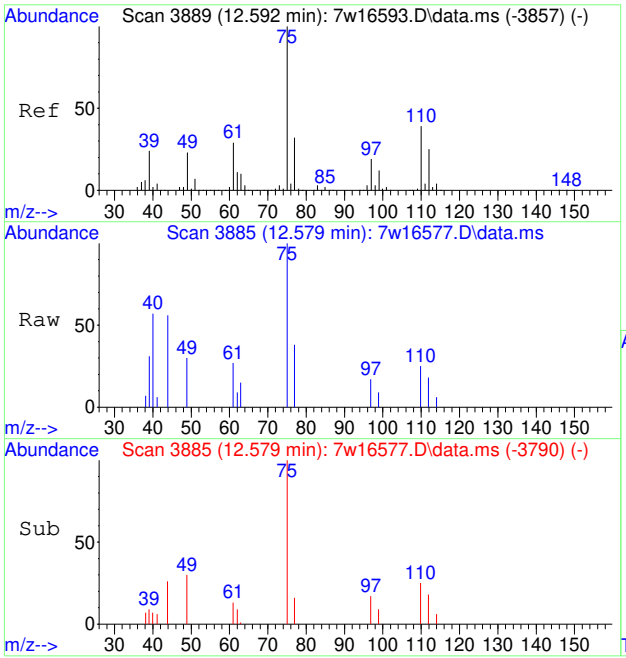


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.016 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 3686

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	6.1	8.0	14.8#

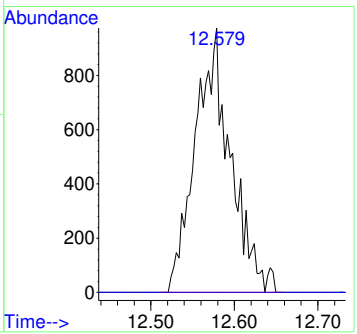


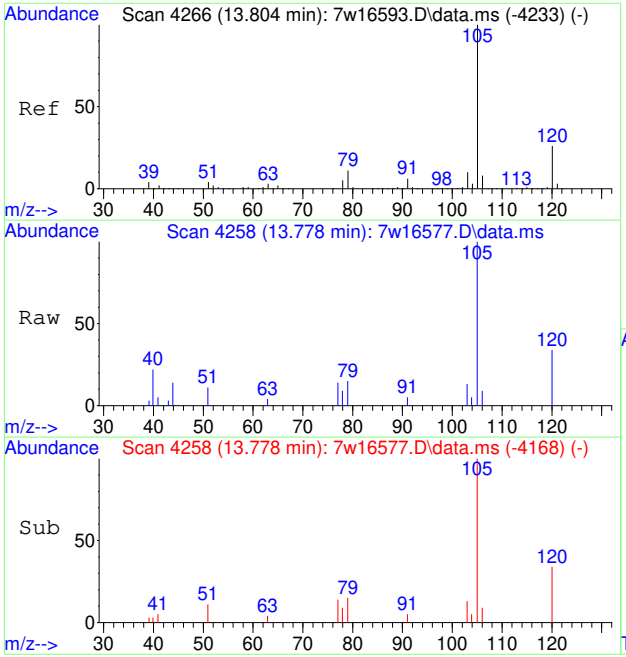


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.10 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2860

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

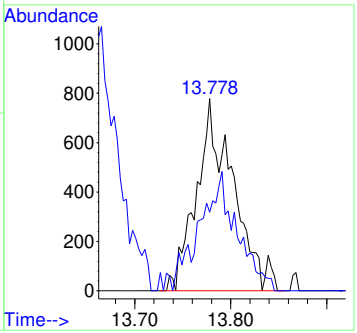


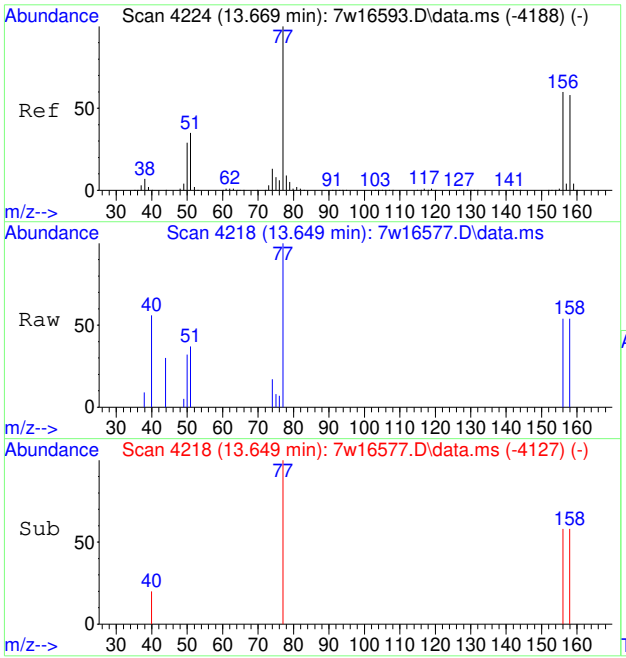


#88
ISOPROPYLBENZENE
Concen: 0.11 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 2075

Ion	Ratio	Lower	Upper
120	100		
77	64.6	36.0	67.0

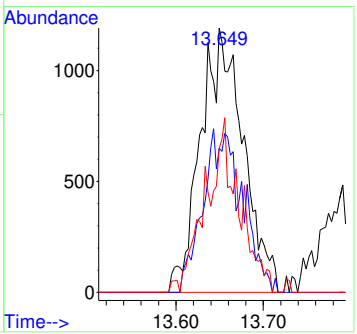


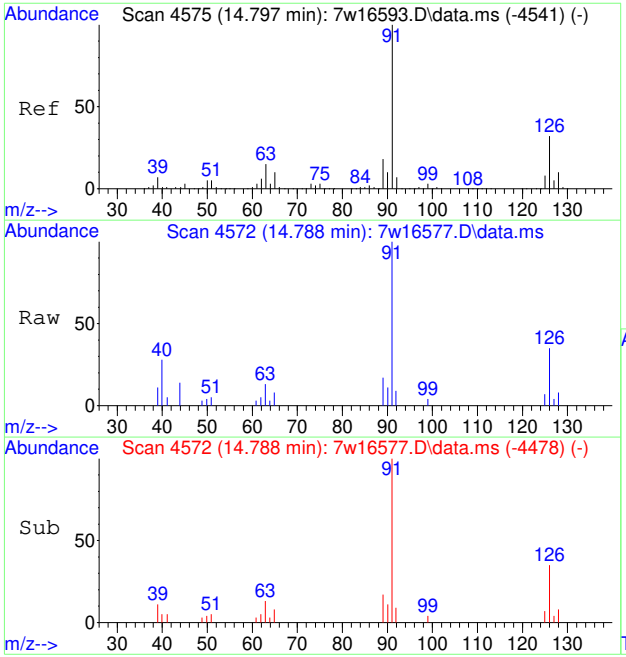


#89
BROMOBENZENE
Concen: 0.11 PPBV
RT: 13.649 min Scan# 4218
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 77 Resp: 4058

Ion	Ratio	Lower	Upper
77	100		
156	56.9	57.9	107.5#
158	51.5	55.7	103.5#

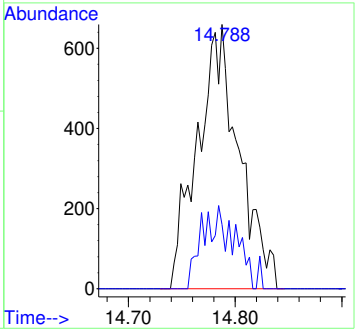


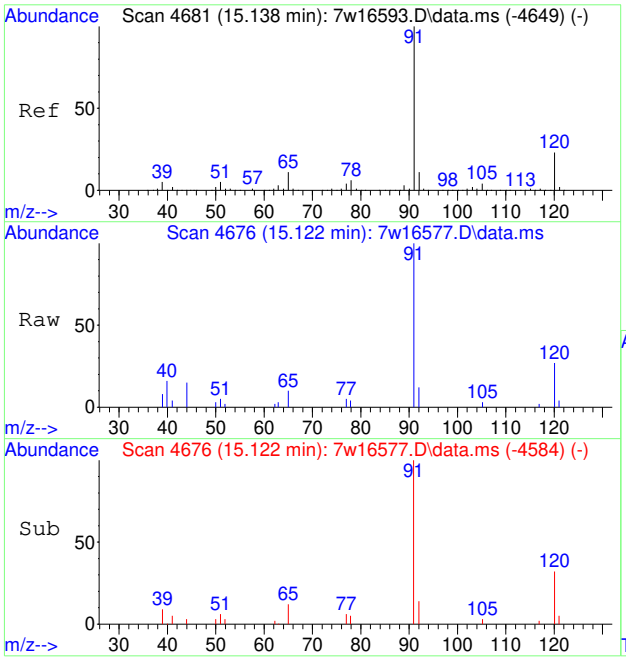


#90
2-CHLOROTOLUENE
Concen: 0.10 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:126 Resp: 1780

Ion	Ratio	Lower	Upper
126	100		
128	10.4	22.7	42.1#

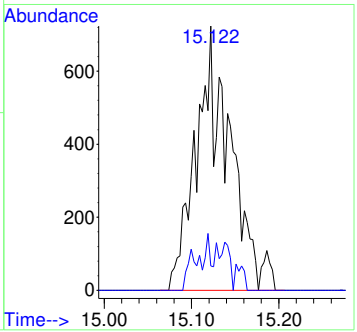


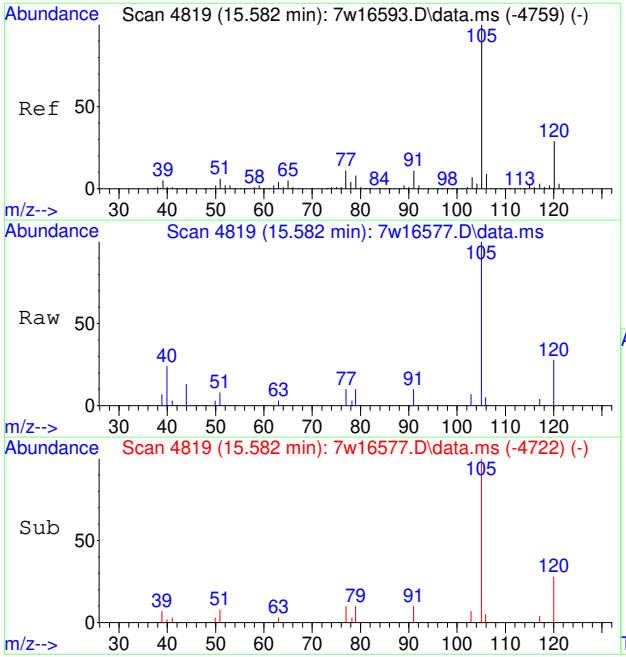


#91
N-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 1971

Ion	Ratio	Lower	Upper
120	100		
105	17.7	10.6	19.6

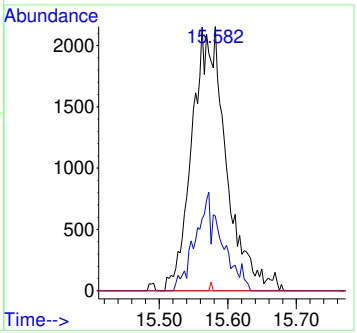


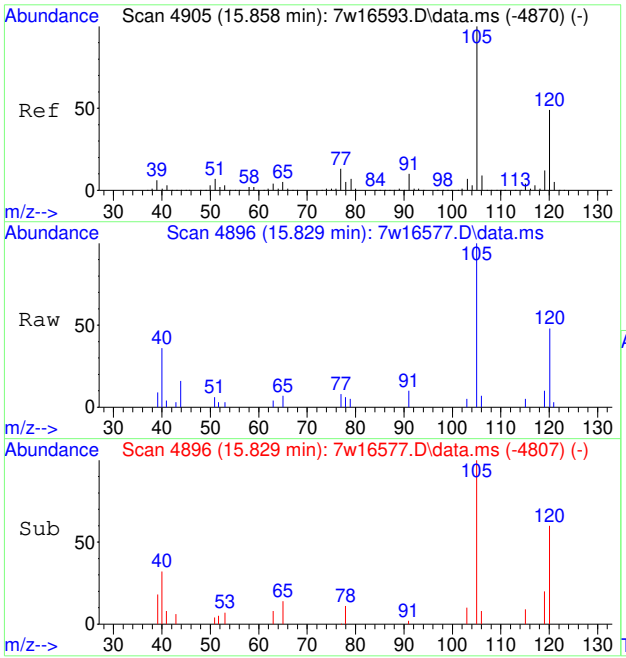


#92
4-ETHYLTOLUENE
Concen: 0.10 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 7463

Ion	Ratio	Lower	Upper
105	100		
120	28.8	21.8	40.4
119	0.0	1.7	3.1#

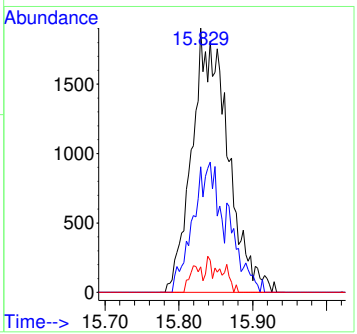


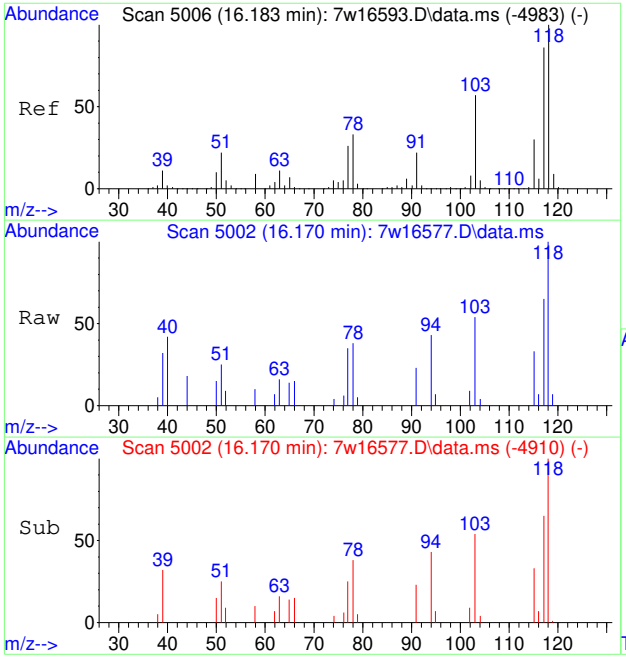


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 15.829 min Scan# 4896
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6383

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.2	69.2#
91	3.4	7.5	13.9#

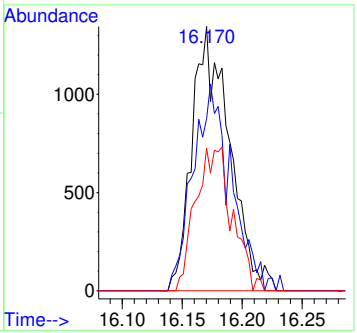


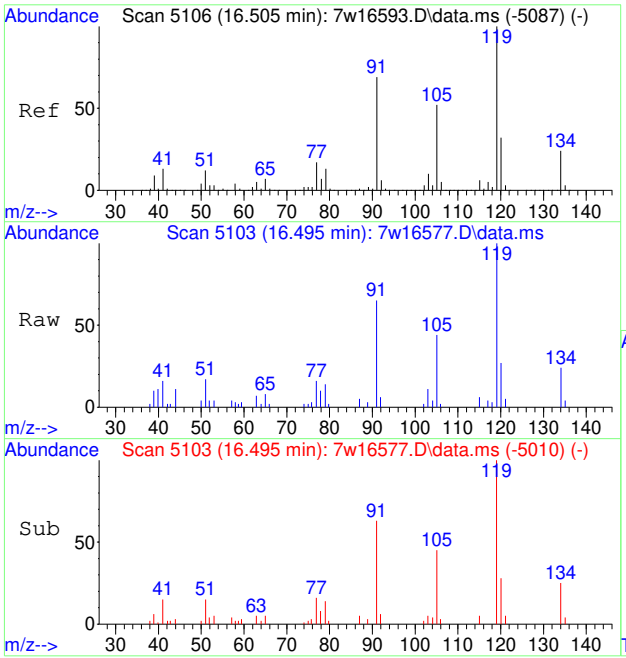


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.170 min Scan# 5002
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:118 Resp: 2929

Ion	Ratio	Lower	Upper
118	100		
117	80.1	59.9	111.3
103	52.7	36.2	67.2

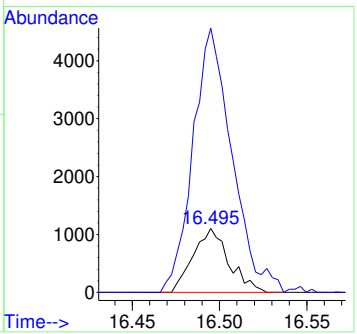


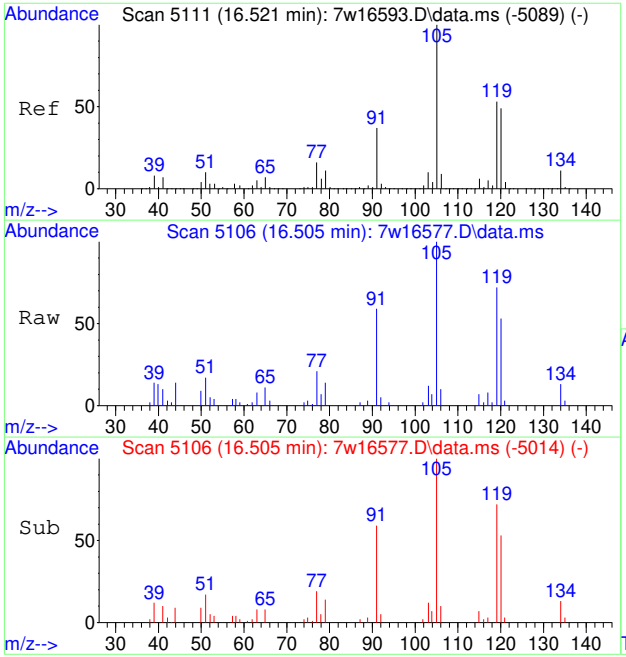


#95
TERT-BUTYLBENZENE
Concen: 0.10 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1569

Ion	Ratio	Lower	Upper
134	100		
119	455.9	307.9	571.7

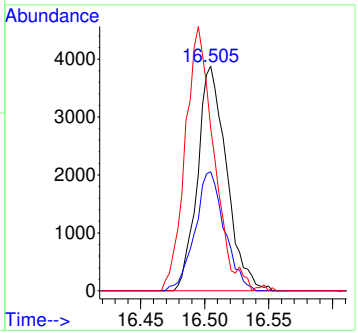


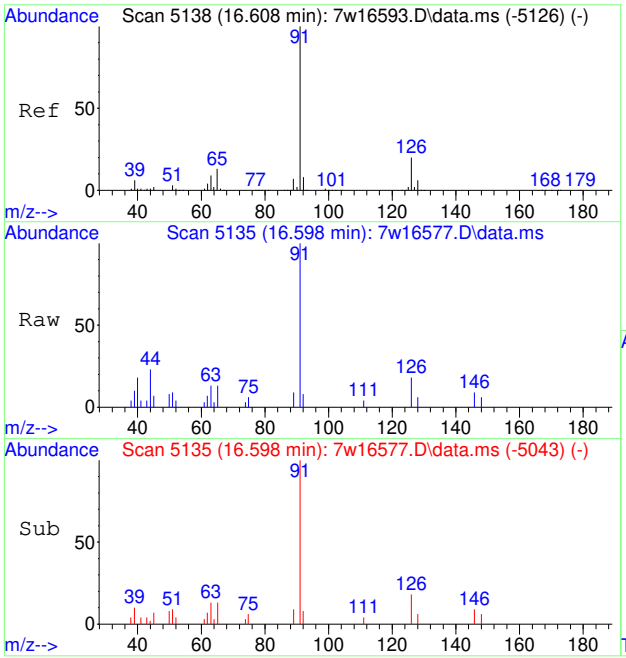


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6125

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	116.8	78.0	144.8

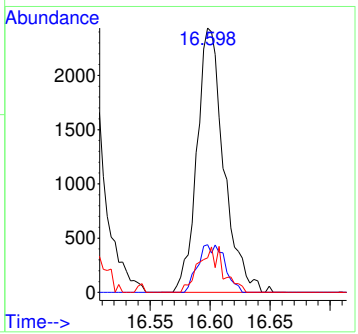


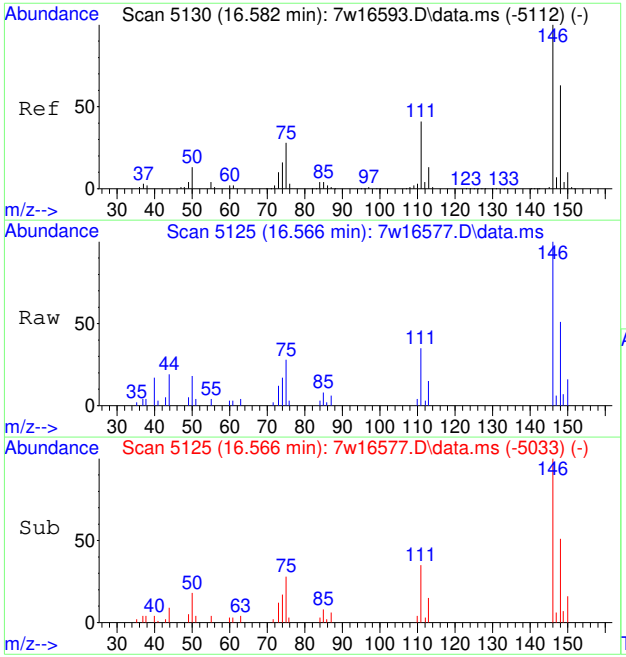


#97
BENZYL CHLORIDE
Concen: 0.07 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 3788

Ion	Ratio	Lower	Upper
91	100		
126	18.1	17.2	32.0
65	15.8	7.3	13.7#

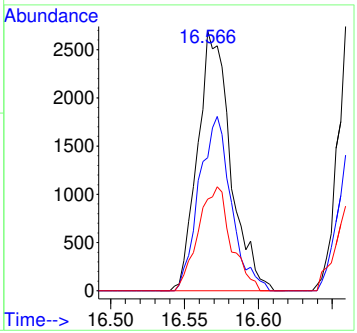


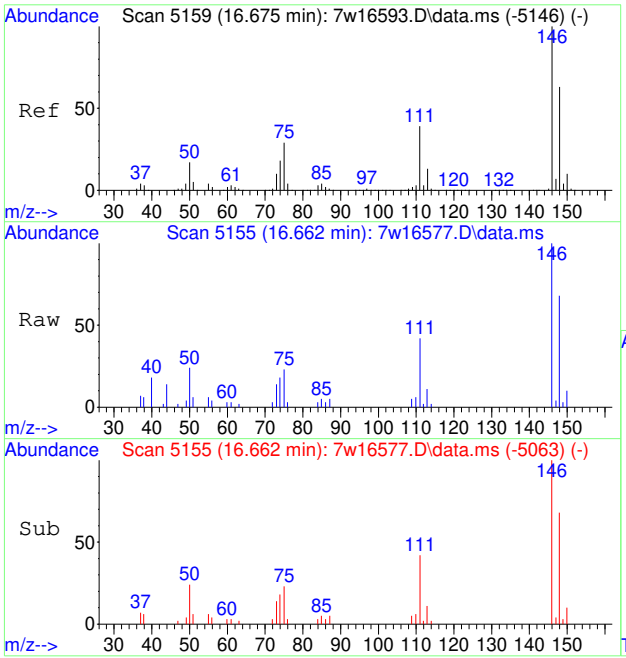


#98
M-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.566 min Scan# 5125
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4159

Ion	Ratio	Lower	Upper
146	100		
148	65.3	44.2	82.2
111	40.1	25.4	47.2

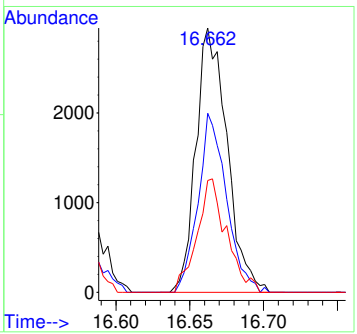


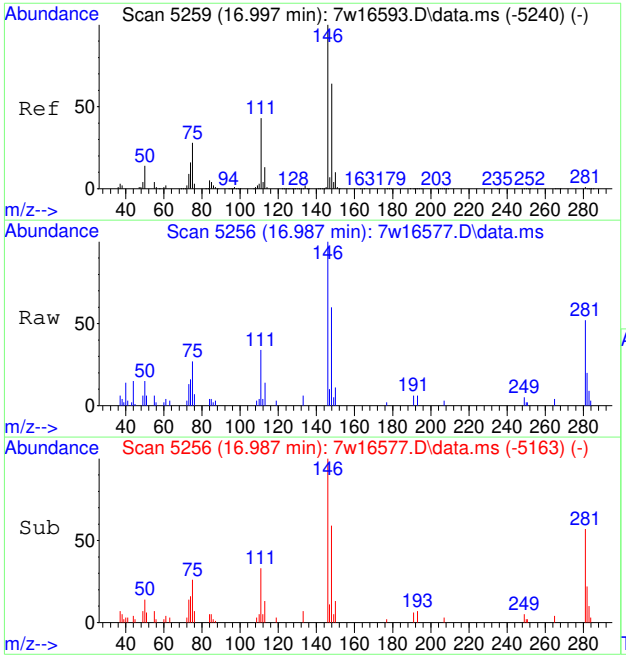


#99
P-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4312

Ion	Ratio	Lower	Upper
146	100		
148	61.9	44.7	82.9
111	40.9	24.8	46.1

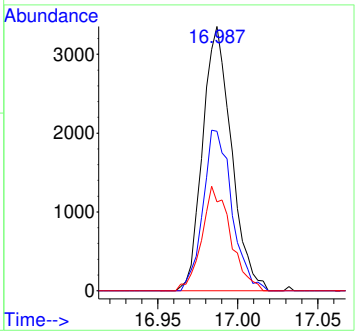


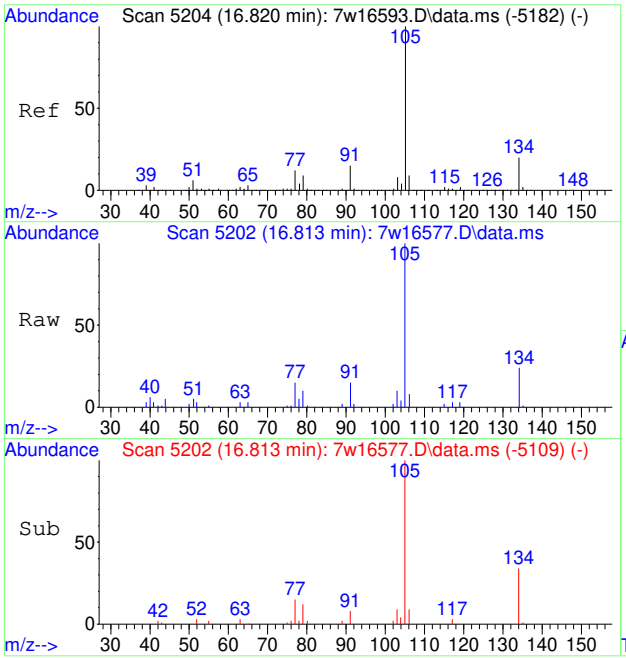


#100
O-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4193

Ion	Ratio	Lower	Upper
146	100		
148	60.9	44.6	82.8
111	39.6	26.9	50.1

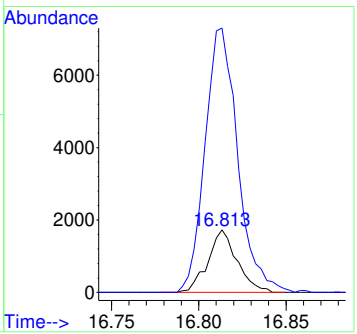


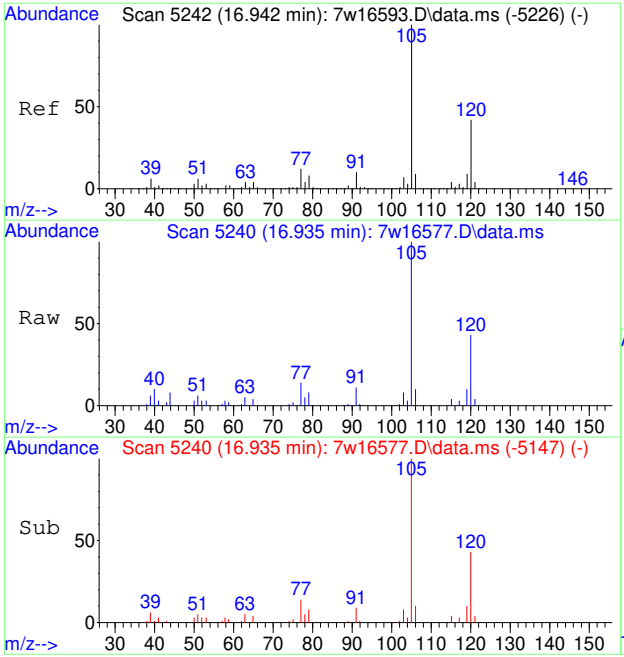


#101
SEC-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2000

Ion	Ratio	Lower	Upper
134	100		
105	476.9	314.4	584.0

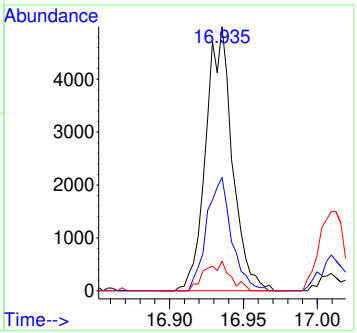


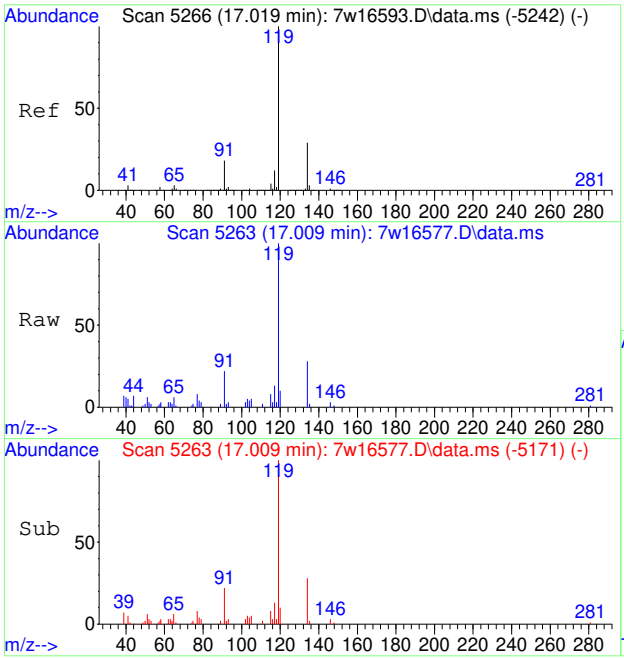


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6206

Ion	Ratio	Lower	Upper
105	100		
120	40.4	31.9	59.2
91	10.7	7.3	13.5

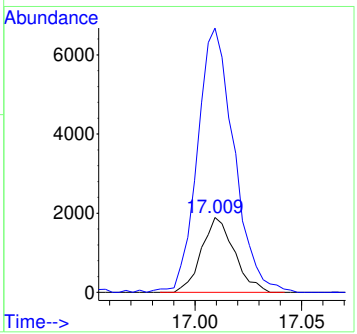


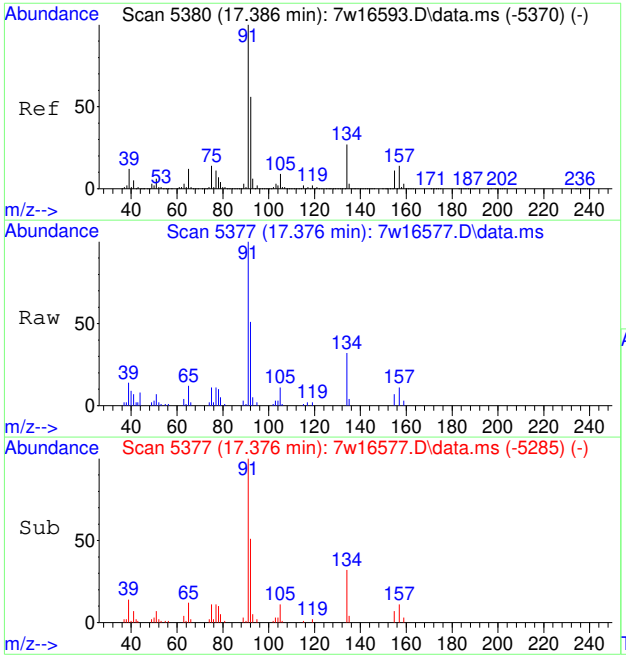


#103
P-ISOPROPYLTOLUENE
Concen: 0.10 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2027

Ion	Ratio	Lower	Upper
134	100		
119	394.0	253.7	471.3

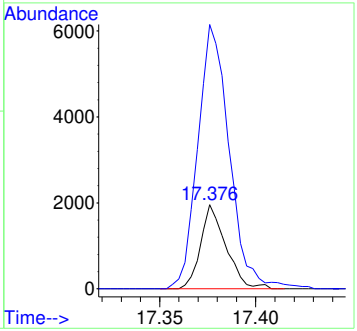


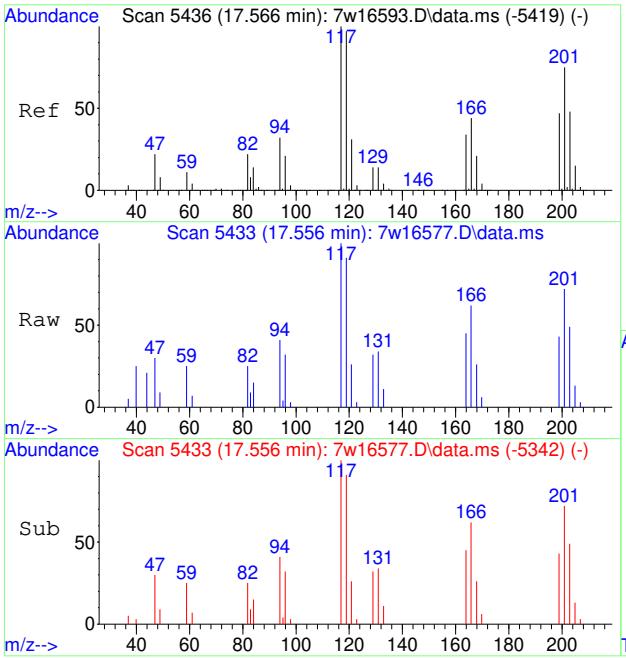


#104
N-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1794

Ion	Ratio	Lower	Upper
134	100		
91	392.4	231.1	429.1

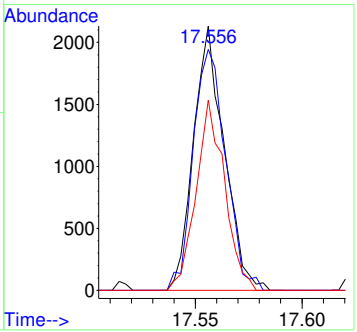


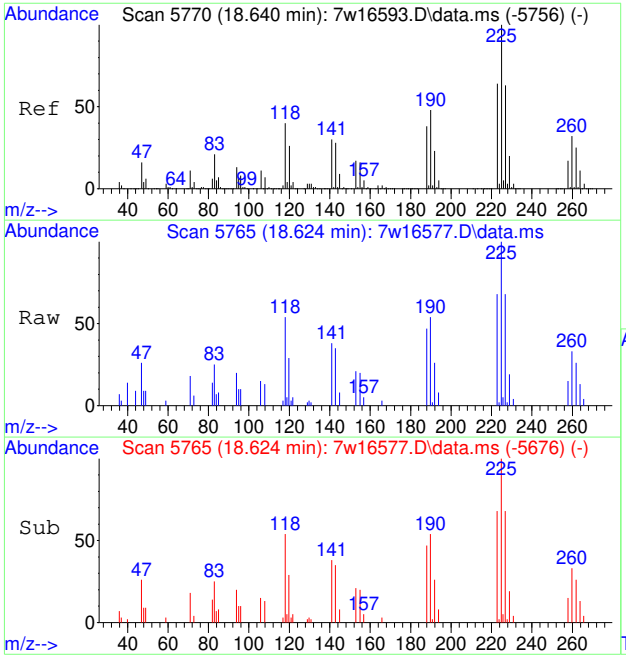


#105
HEXACHLOROETHANE
Concen: 0.09 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2143

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	66.7	45.9	85.3

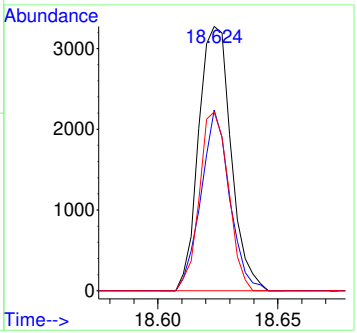


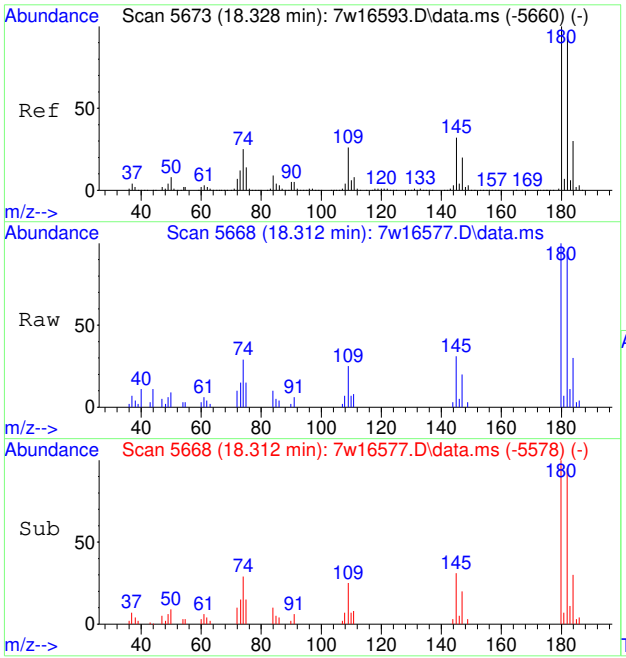


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.624 min Scan# 5765
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:225 Resp: 3071

Ion	Ratio	Lower	Upper
225	100		
227	60.4	44.4	82.5
223	60.5	44.7	83.1

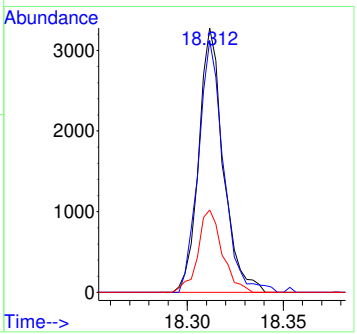


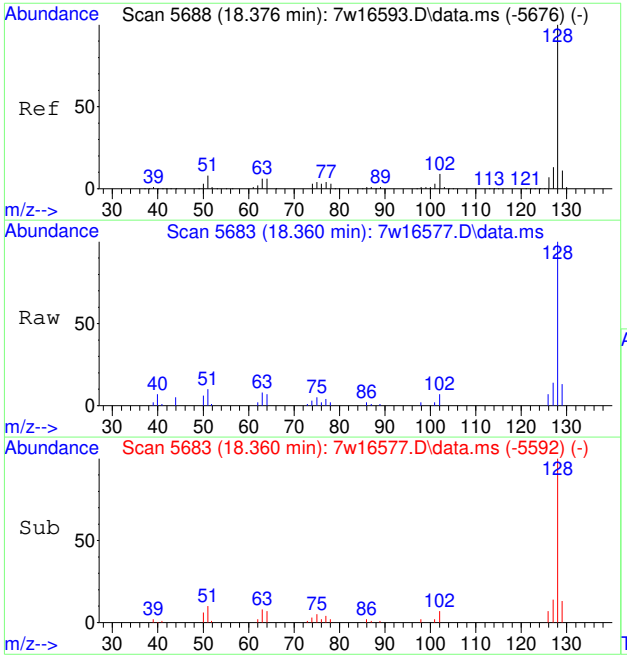


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.08 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:180 Resp: 2908

Ion	Ratio	Lower	Upper
180	100		
182	97.8	66.8	124.0
145	31.0	23.1	42.9

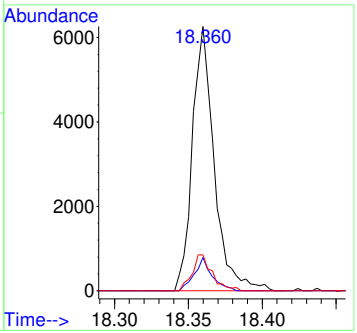




#108
NAPHTHALENE
Concen: 0.08 PPBV
RT: 18.360 min Scan# 5683
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:128 Resp: 6418

Ion	Ratio	Lower	Upper
128	100		
129	10.1	7.3	13.7
127	12.5	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16577.D
Injection Time: 08/07/25 04:38

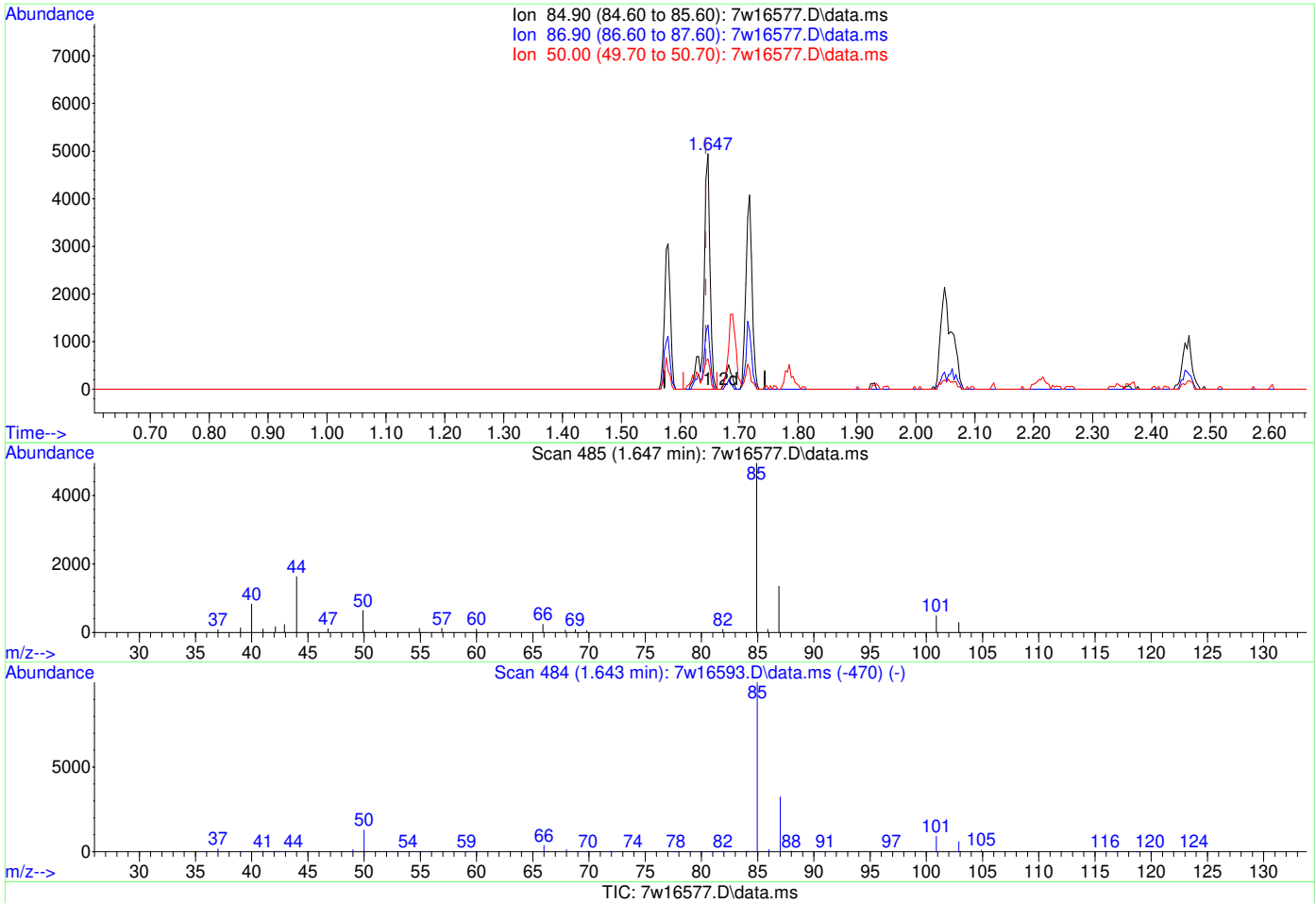
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.11PPBV

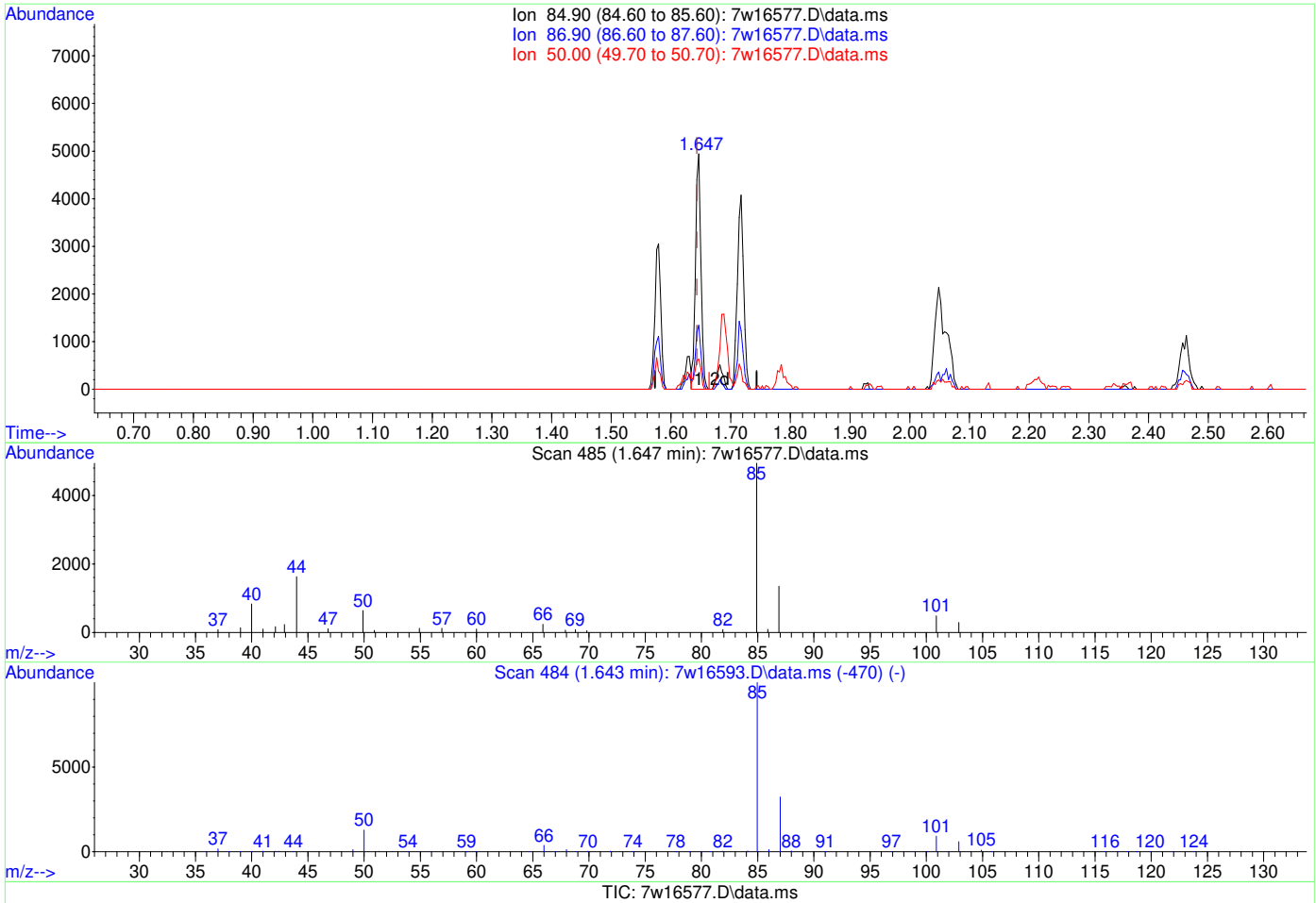
response 3582

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	30.29
50.00	17.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.09PPBV m

response 3122

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.75
50.00	17.30	24.76#
0.00	0.00	0.00

7W16577.D edits: DICHLORODIFLUOROMETHANE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114690	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	581918	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	540272	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114690	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	425835	9.69	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	2657	0.18	PPBV		86
3) FREON 152A	1.605	65	1240	0.18	PPBV		85
4) CHLORODIFLUOROMETHANE	1.618	67	552	0.17	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	2985	0.19	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.644	85	5428m	0.16	PPBV		
7) PROPYLENE	1.627	41	1949	0.21	PPBV		93
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	5125	0.20	PPBV	#	88
9) FREON 114	1.714	85	5306	0.18	PPBV		85
10) CHLOROMETHANE	1.685	52	806	0.21	PPBV		85
11) VINYL CHLORIDE	1.746	62	2445	0.17	PPBV		96
12) 1,3-BUTADIENE	1.785	54	2011	0.18	PPBV	#	73
13) N-BUTANE	1.801	43	4132	0.22	PPBV	#	41
14) BROMOMETHANE	1.859	94	2032	0.19	PPBV		98
15) CHLOROETHANE	1.904	64	1408	0.19	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	4948	0.18	PPBV		95
17) ACETONITRILE	1.997	41	2687	0.23	PPBV		99
18) ACROLEIN	2.033	56	1361	0.22	PPBV		87
19) FREON 123	2.045	83	5339	0.19	PPBV		97
20) FREON 123A	2.065	117	3198	0.20	PPBV	#	51
21) TRICHLOROFLUOROMETHANE	2.126	101	5808	0.18	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	6133	0.23	PPBV		91
23) ACETONE	2.074	58	1566	0.22	PPBV		69
24) PENTANE	2.238	42	2893	0.21	PPBV	#	82
25) IODOMETHANE	2.303	142	5560	0.19	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.325	96	2379	0.20	PPBV	#	70
27) CARBON DISULFIDE	2.460	76	6298	0.18	PPBV	#	80
28) ETHANOL	1.933	45	1573	0.23	PPBV		95
29) BROMOETHENE	2.000	106	2033	0.18	PPBV		99
30) ACRYLONITRILE	2.213	52	2213	0.22	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	2222	0.20	PPBV	#	78
32) 3-CHLOROPROPENE	2.406	76	1202	0.19	PPBV		77
33) FREON 113	2.457	151	3430	0.19	PPBV		82
34) TRANS-1,2-DICHLOROETHENE	2.685	96	2282	0.18	PPBV	#	60
35) TERTIARY BUTYL ALCOHOL	2.345	59	5515	0.17	PPBV		97
36) METHYL TERTIARY BUTYL ...	2.798	73	6887	0.19	PPBV	#	88
37) TETRAHYDROFURAN	3.489	72	887	0.14	PPBV	#	49
38) HEXANE	3.238	57	4468	0.18	PPBV		87
39) VINYL ACETATE	2.830	86	581	0.16	PPBV	#	53
40) 1,1-DICHLOROETHANE	2.759	63	4599	0.18	PPBV		97
41) METHYL ETHYL KETONE	2.926	72	1205	0.18	PPBV	#	81
42) CIS-1,2-DICHLOROETHENE	3.113	96	2527	0.19	PPBV	#	78
43) DIISOPROPYL ETHER	3.248	59	1371	0.20	PPBV		89
44) ETHYL ACETATE	3.261	61	871	0.18	PPBV	#	77
45) METHYL ACRYLATE	3.238	55	5488	0.18	PPBV	#	96
46) CHLOROFORM	3.258	83	5027	0.19	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	5307	0.19	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	5006	0.18	PPBV		95
49) CARBON TETRACHLORIDE	4.232	117	4884	0.16	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.660	62	3746	0.18	PPBV	#	96
51)	BENZENE	4.126	78	7569	0.19	PPBV		91
53)	CYCLOHEXANE	4.338	84	3276	0.18	PPBV	#	64
54)	2,3-DIMETHYLPENTANE	4.582	71	1571	0.17	PPBV	#	52
55)	TRICHLOROETHENE	5.010	95	3186	0.17	PPBV		84
56)	1,2-DICHLOROPROPANE	4.785	63	2832	0.17	PPBV		93
57)	DIBROMOMETHANE	4.740	174	2923	0.19	PPBV		89
58)	ETHYL ACRYLATE	4.907	55	6937	0.18	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.959	83	5187	0.16	PPBV		92
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	15119	0.19	PPBV	#	94
61)	1,4-DIOXANE	5.090	88	1375	0.15	PPBV	#	1
62)	HEPTANE	5.425	43	5077	0.19	PPBV		91
63)	METHYL METHACRYLATE	5.328	69	2638	0.17	PPBV		84
64)	METHYL ISOBUTYL KETONE	6.058	58	2634	0.17	PPBV	#	88
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	4430	0.17	PPBV		99
66)	TOLUENE	7.129	91	9065	0.19	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	4438	0.18	PPBV		98
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	3506	0.14	PPBV		95
69)	1,1,2-TRICHLOROETHANE	6.766	83	2630	0.18	PPBV		94
70)	2-HEXANONE	7.724	58	3463	0.17	PPBV	#	84
71)	ETHYL METHACRYLATE	7.839	69	4472	0.17	PPBV	#	87
72)	TETRACHLOROETHENE	8.846	164	3315	0.19	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.656	129	4563	0.15	PPBV		96
74)	1,2-DIBROMOETHANE	7.994	107	4734	0.19	PPBV	#	97
75)	OCTANE	8.994	43	6956	0.19	PPBV		89
77)	1,1,1,2-TETRACHLOROETHANE	10.048	131	3463	0.16	PPBV		87
78)	CHLOROBENZENE	10.045	112	7506	0.19	PPBV		87
79)	ETHYLBENZENE	10.923	91	12148	0.19	PPBV		93
80)	M,P-XYLENE	11.344	91	19306	0.37	PPBV		87
81)	O-XYLENE	12.280	91	9544	0.19	PPBV		92
82)	STYRENE	12.064	104	6329	0.16	PPBV	#	90
83)	NONANE	13.396	43	7642	0.20	PPBV		86
84)	BROMOFORM	11.151	173	3912	0.15	PPBV		98
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	7071	0.19	PPBV		96
86)	1,2,3-TRICHLOROPROPANE	12.569	75	5376	0.19	PPBV	#	99
88)	ISOPROPYLBENZENE	13.791	120	3578	0.19	PPBV	#	69
89)	BROMOBENZENE	13.646	77	6796	0.19	PPBV		75
90)	2-CHLOROTOLUENE	14.781	126	2989	0.16	PPBV		99
91)	N-PROPYLBENZENE	15.129	120	3735	0.18	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	13365	0.18	PPBV		96
93)	1,3,5-TRIMETHYLBENZENE	15.836	105	11247	0.18	PPBV	#	89
94)	ALPHA-METHYLSTYRENE	16.180	118	4973	0.15	PPBV		95
95)	TERT-BUTYLBENZENE	16.498	134	2760	0.18	PPBV		91
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	11478	0.18	PPBV		98
97)	BENZYL CHLORIDE	16.595	91	6914	0.13	PPBV	#	90
98)	M-DICHLOROBENZENE	16.569	146	7589	0.18	PPBV		96
99)	P-DICHLOROBENZENE	16.665	146	7856	0.19	PPBV		96
100)	O-DICHLOROBENZENE	16.987	146	7325	0.19	PPBV		96
101)	SEC-BUTYLBENZENE	16.813	134	3439	0.19	PPBV		82
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	11073	0.18	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.009	134	3722	0.18	PPBV		95
104)	N-BUTYLBENZENE	17.379	134	3557	0.18	PPBV		86
105)	HEXACHLOROETHANE	17.559	117	3887	0.16	PPBV		97
106)	HEXACHLOROBUTADIENE	18.630	225	5583	0.21	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.315	180	5618	0.16	PPBV		98
108)	NAPHTHALENE	18.363	128	11029	0.14	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	17908	0.28	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

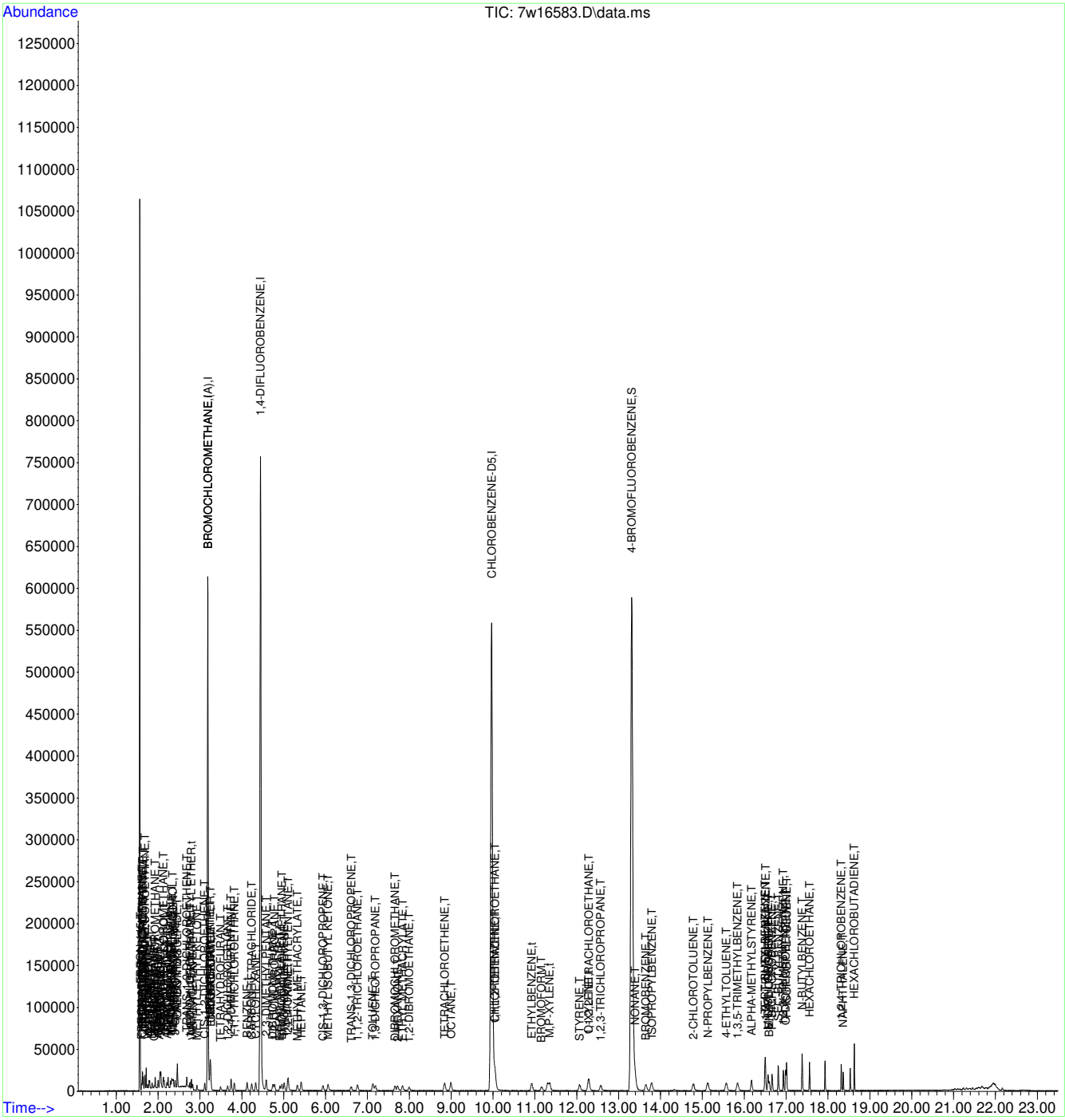
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

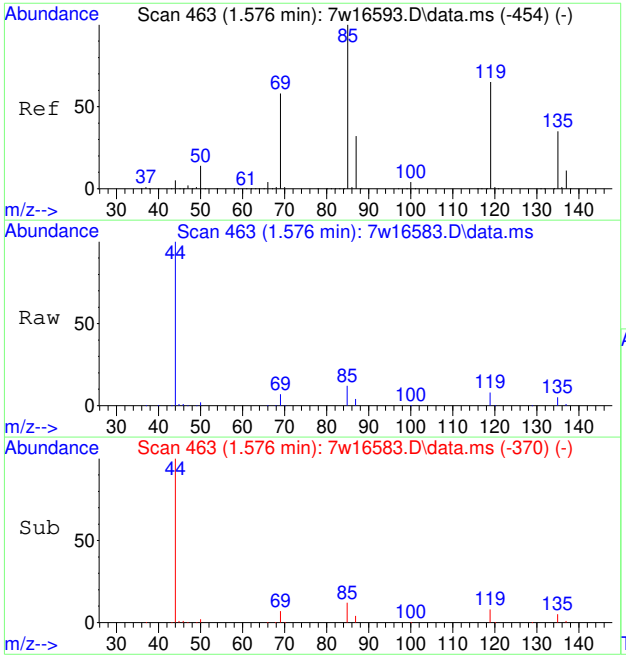
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

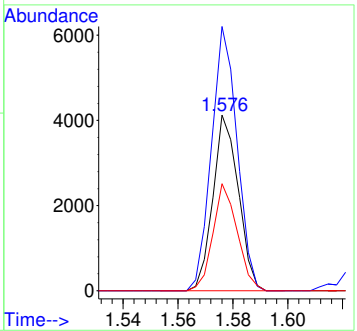


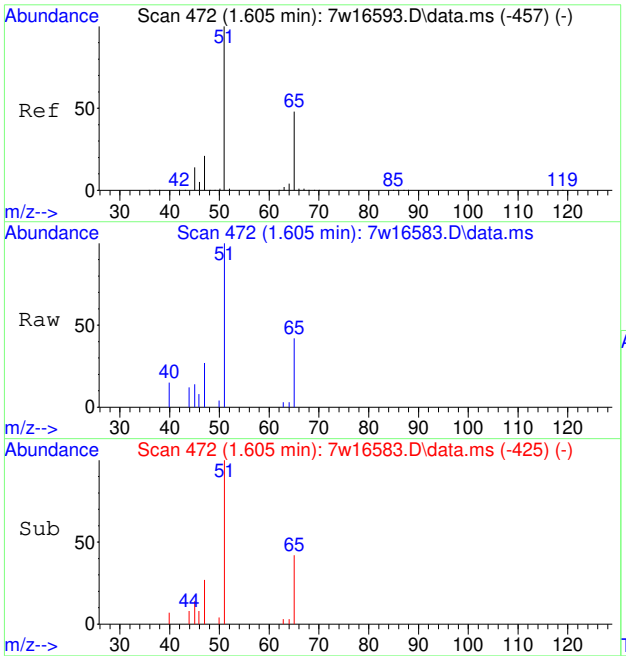


#2
FREON 115
Concen: 0.18 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:119 Resp: 2657

Ion	Ratio	Lower	Upper
119	100		
85	151.2	90.9	168.7
135	58.3	38.2	71.0

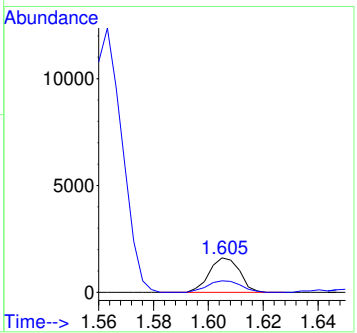


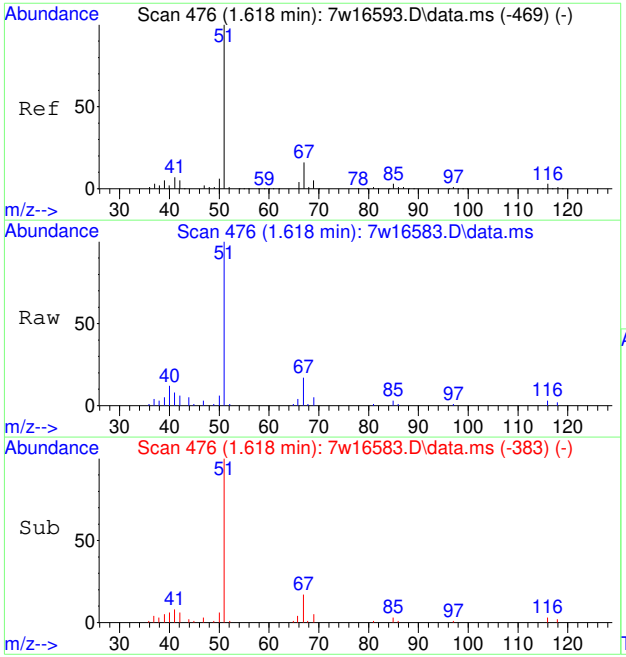


#3
FREON 152A
Concen: 0.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 1240

Ion	Ratio	Lower	Upper
65	100		
45	37.4	20.6	38.4

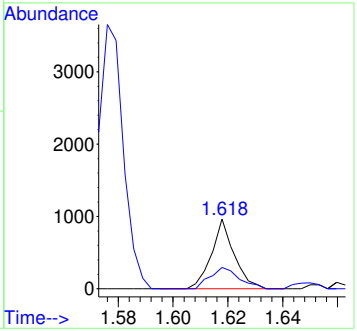


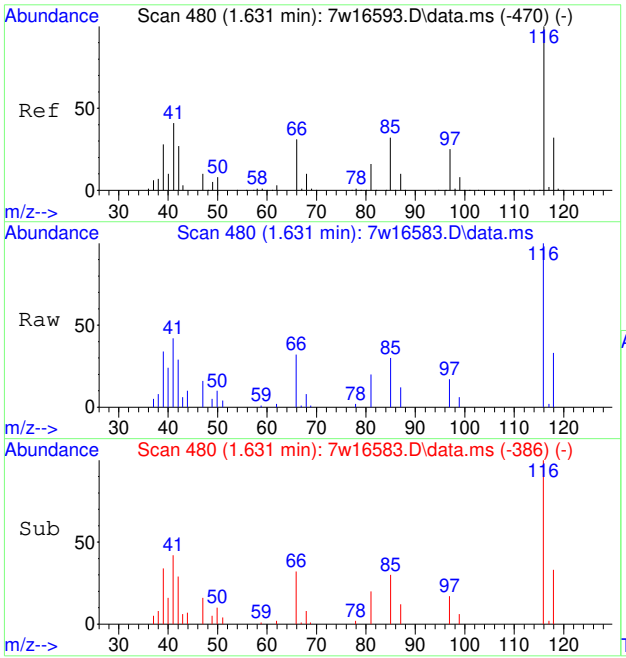


#4
CHLORODIFLUOROMETHANE
Concen: 0.17 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 552

Ion	Ratio	Lower	Upper
67	100		
69	39.3	25.4	47.2

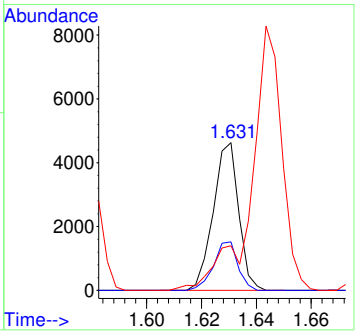


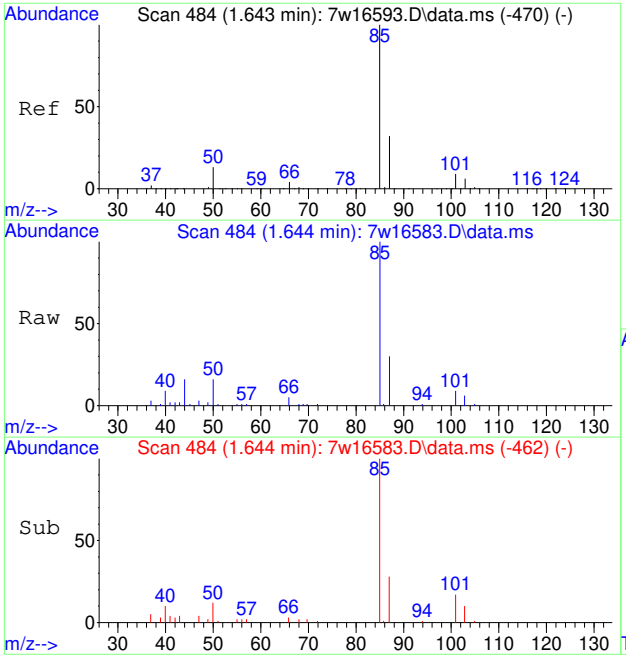


#5
CHLOROTRIFLUOROETHENE
Concen: 0.19 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:116 Resp: 2985

Ion	Ratio	Lower	Upper
116	100		
118	31.6	22.7	42.1
85	215.0	194.7	361.7

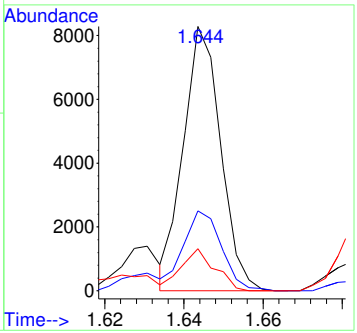


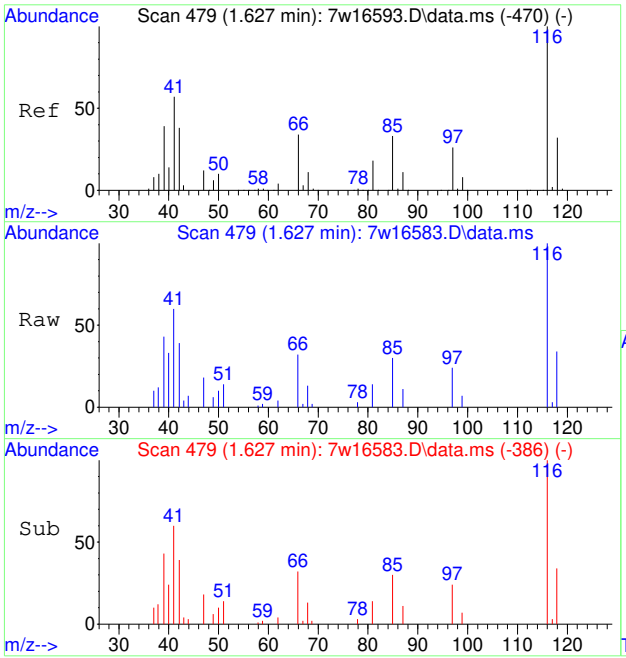


#6
DICHLORODIFLUOROMETHANE
Concen: 0.16 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5428

Ion	Ratio	Lower	Upper
85	100		
87	37.7	23.1	42.9
50	25.0	12.1	22.5#

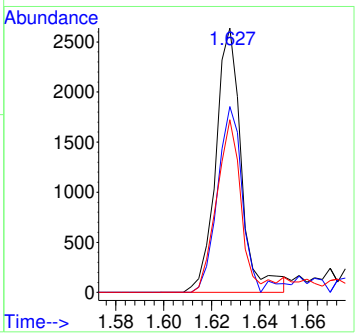


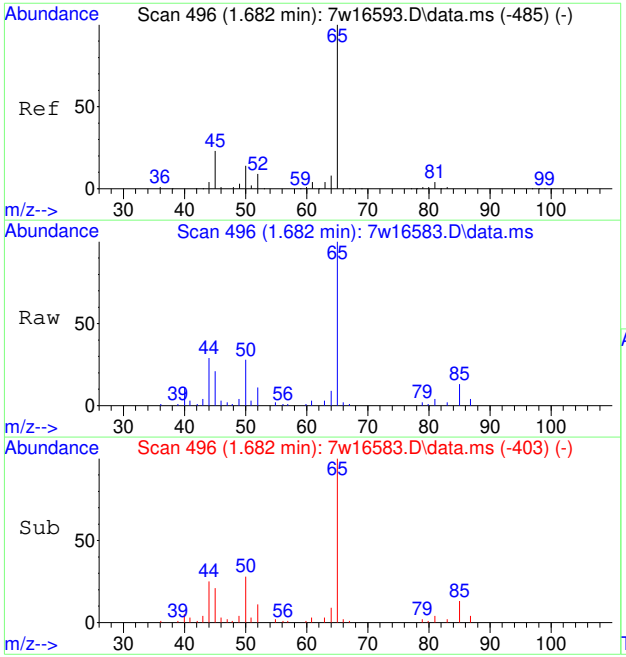


#7
PROPYLENE
Concen: 0.21 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 1949

Ion	Ratio	Lower	Upper
41	100		
39	69.6	51.0	94.8
42	74.5	46.6	86.6

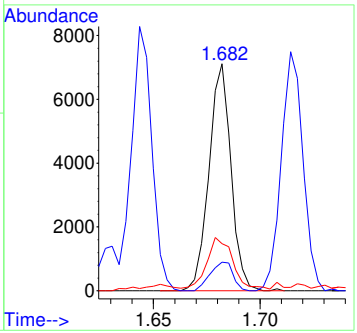


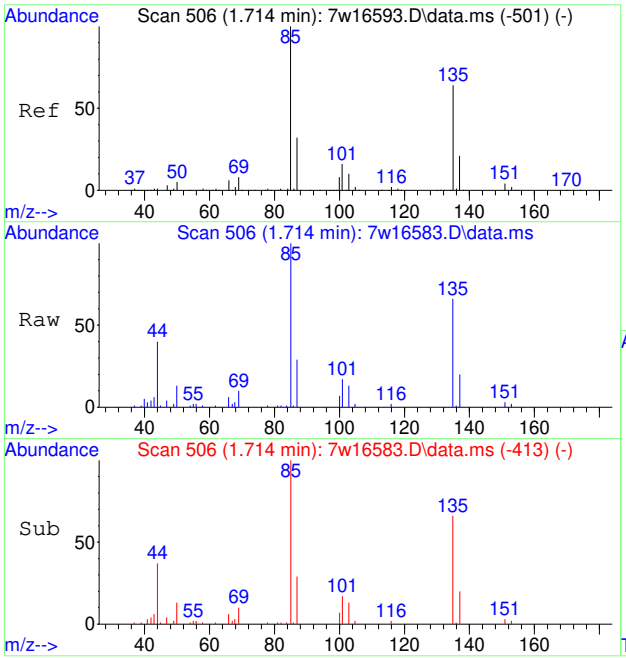


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.20 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 5125

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	33.1	17.0	31.6#

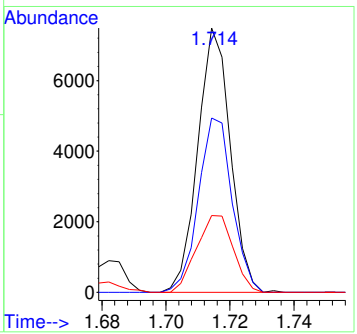


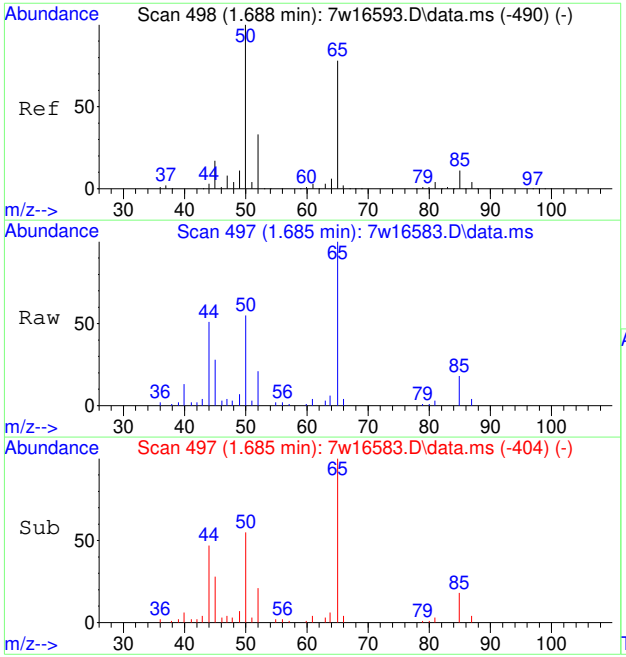


#9
FREON 114
Concen: 0.18 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5306

Ion	Ratio	Lower	Upper
85	100		
135	68.3	61.3	113.9
87	32.8	23.2	43.0

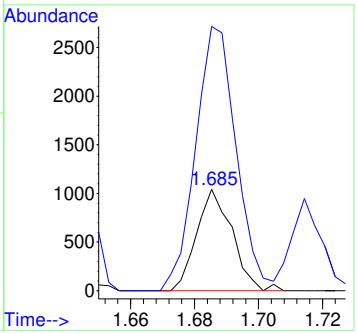


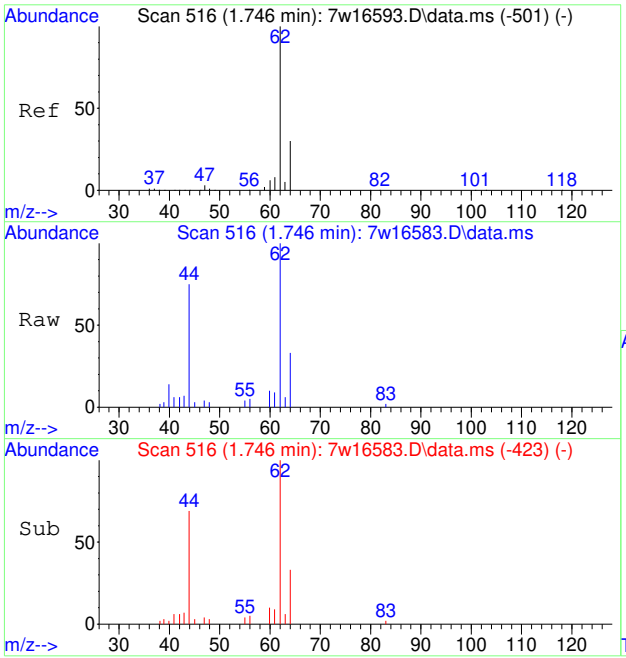


#10
CHLOROMETHANE
Concen: 0.21 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 806

Ion	Ratio	Lower	Upper
52	100		
50	294.8	227.6	422.6

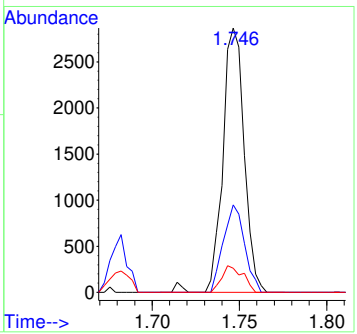


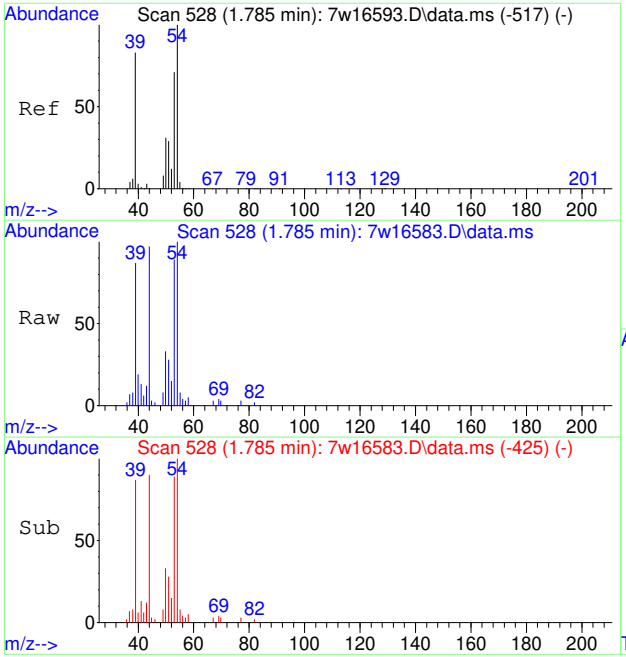


#11
VINYL CHLORIDE
Concen: 0.17 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 2445

Ion	Ratio	Lower	Upper
62	100		
64	32.8	21.6	40.2
61	9.9	5.7	10.7

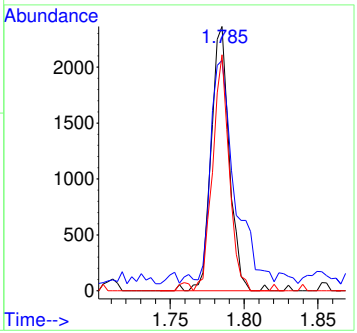


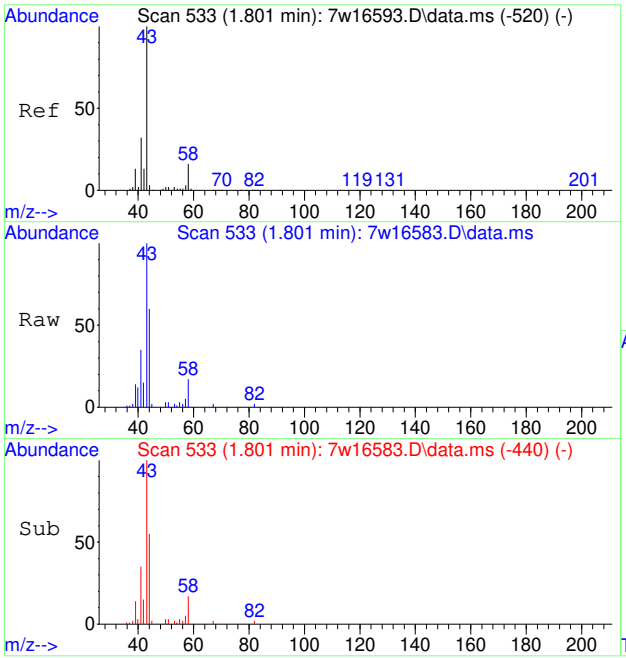


#12
1,3-BUTADIENE
Concen: 0.18 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 54 Resp: 2011

Ion	Ratio	Lower	Upper
54	100		
39	113.5	125.6	185.6#
53	83.8	40.7	100.7

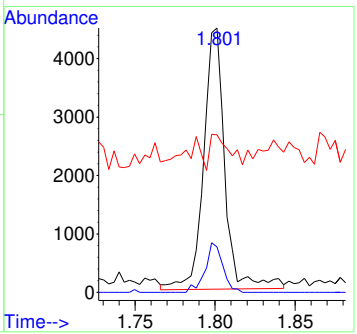


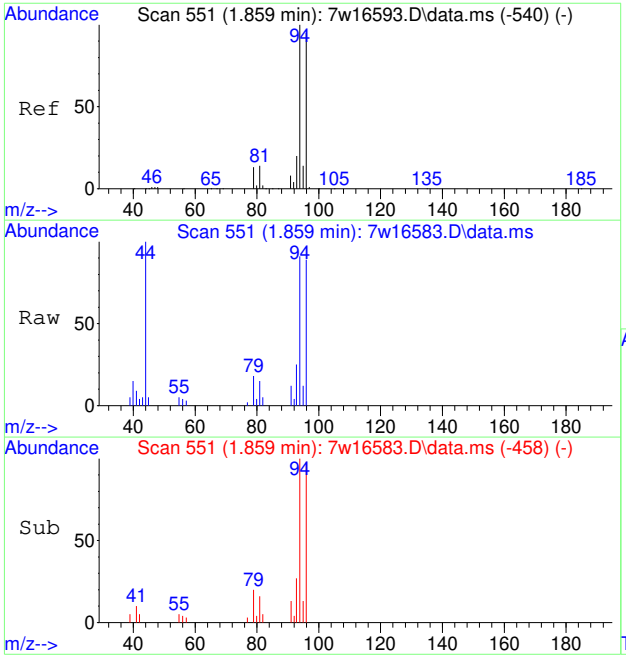


#13
N-BUTANE
Concen: 0.22 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 4132

Ion	Ratio	Lower	Upper
43	100		
58	15.6	10.4	19.4
44	88.8	3.0	5.6#

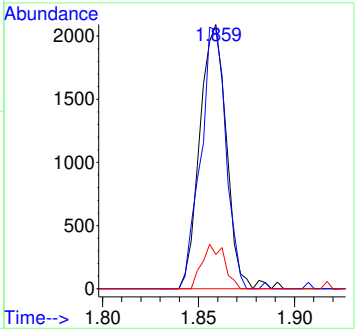


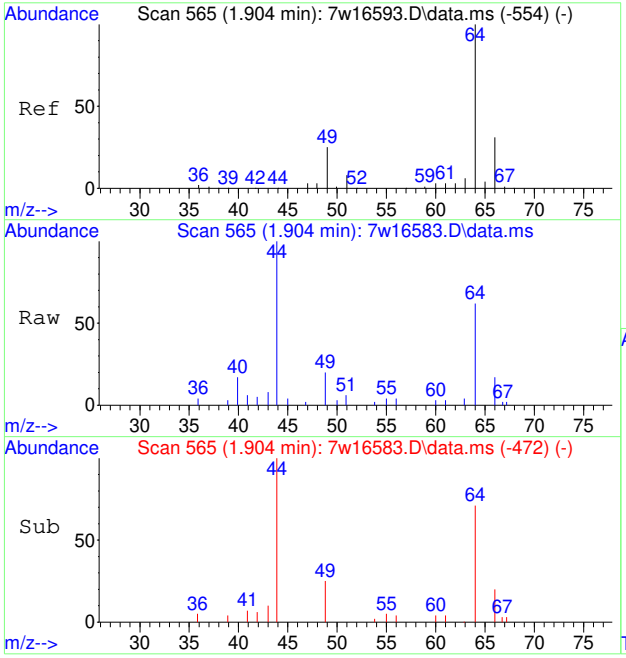


#14
BROMOMETHANE
Concen: 0.19 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 94 Resp: 2032

Ion	Ratio	Lower	Upper
94	100		
96	93.0	63.6	118.0
95	14.1	10.0	18.6

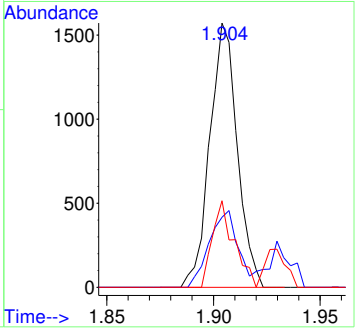


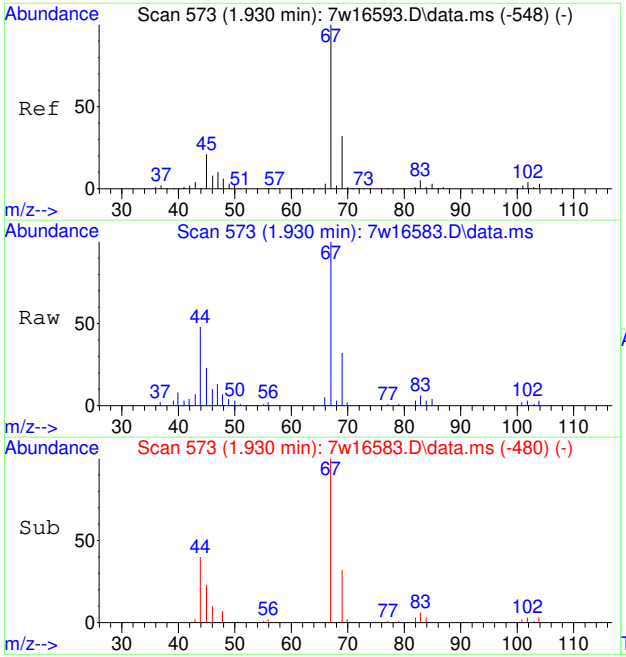


#15
CHLOROETHANE
Concen: 0.19 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 64 Resp: 1408

Ion	Ratio	Lower	Upper
64	100		
66	31.4	23.0	42.6
49	26.1	21.5	39.9

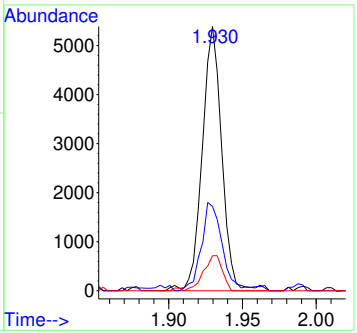


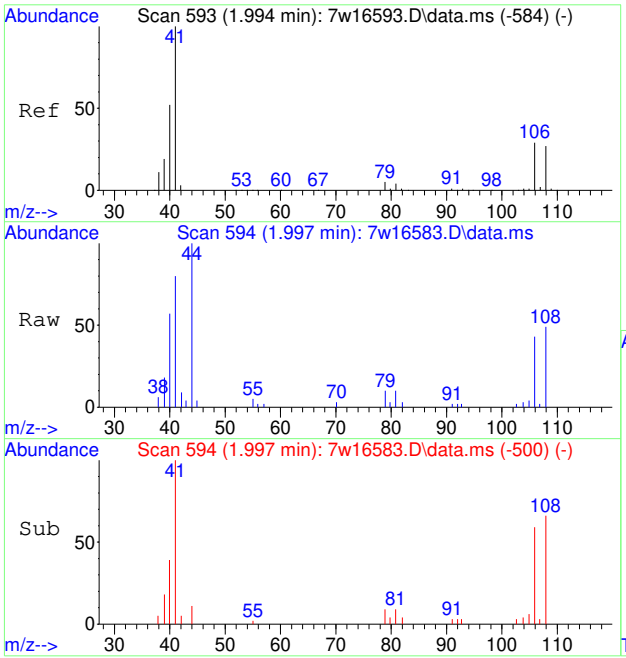


#16
DICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 4948

Ion	Ratio	Lower	Upper
67	100		
69	36.5	23.2	43.0
47	13.1	9.6	17.8

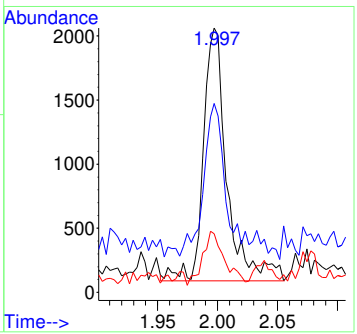


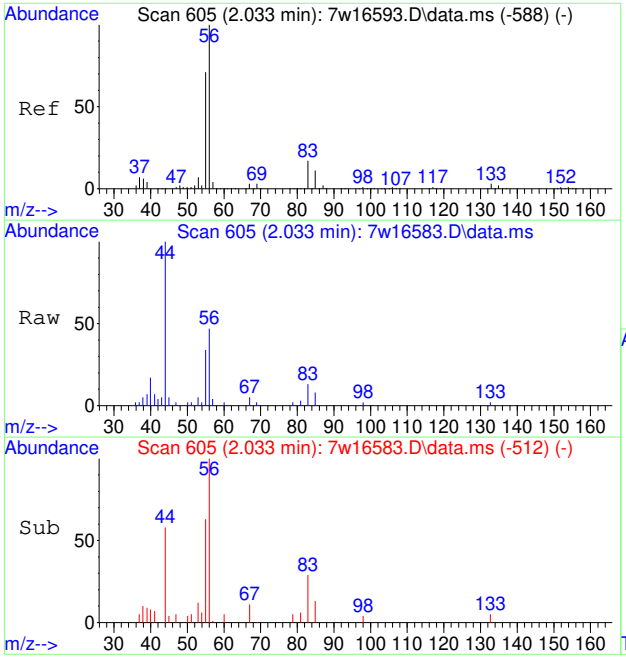


#17
ACETONITRILE
Concen: 0.23 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 2687

Ion	Ratio	Lower	Upper
41	100		
40	55.7	38.4	71.4
39	20.2	14.5	26.9

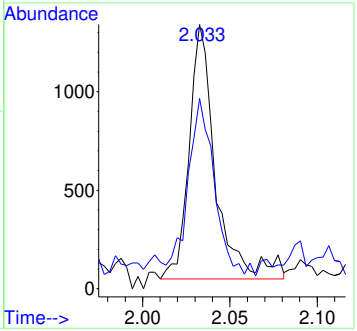


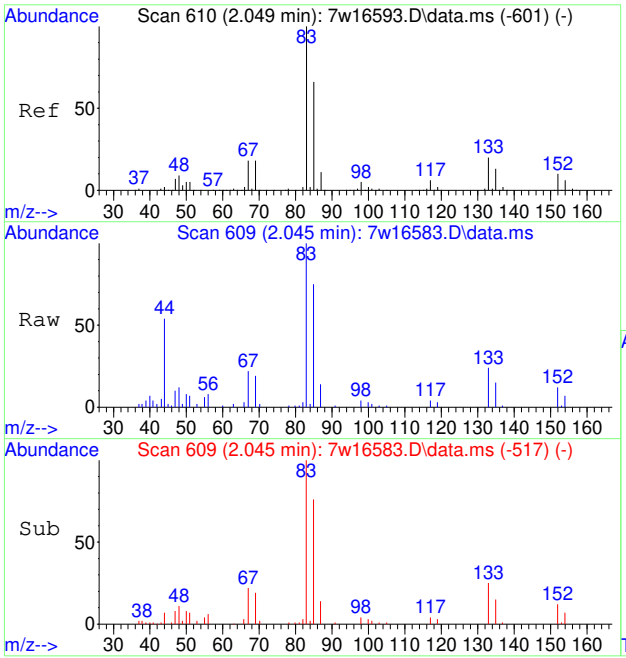


#18
ACROLEIN
Concen: 0.22 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 56 Resp: 1361

Ion	Ratio	Lower	Upper
56	100		
55	62.1	51.2	95.2

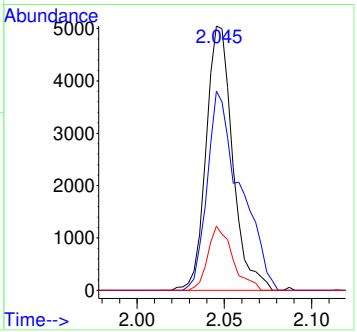


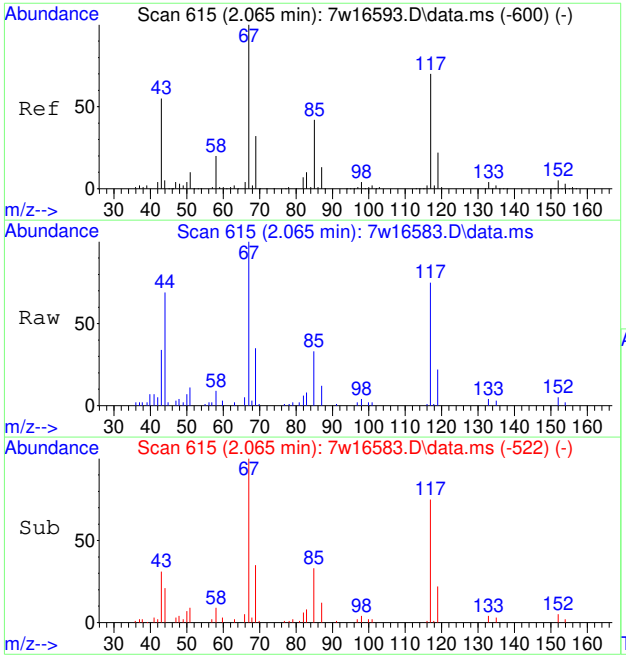


#19
FREON 123
Concen: 0.19 PPBV
RT: 2.045 min Scan# 609
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5339

Ion	Ratio	Lower	Upper
83	100		
85	94.1	65.7	121.9
133	22.7	19.9	36.9

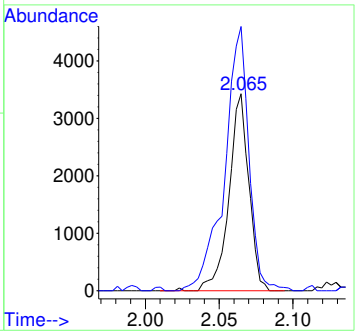


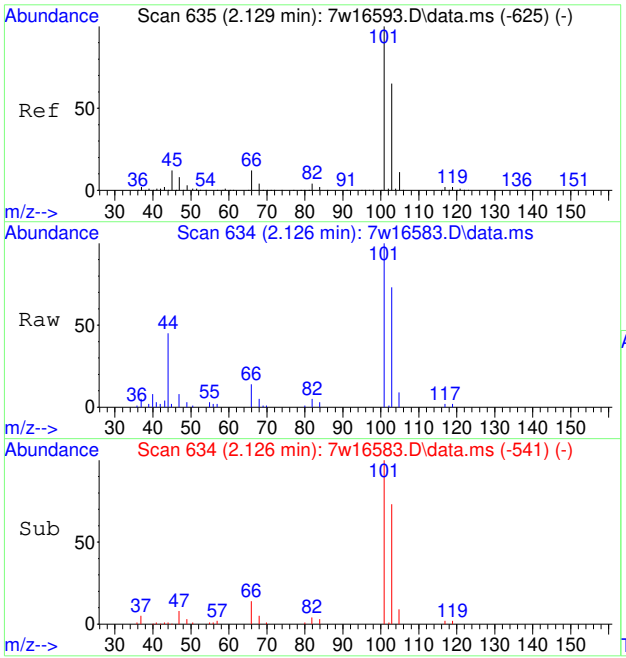


#20
FREON 123A
Concen: 0.20 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3198

Ion	Ratio	Lower	Upper
117	100		
67	164.6	78.8	146.4#

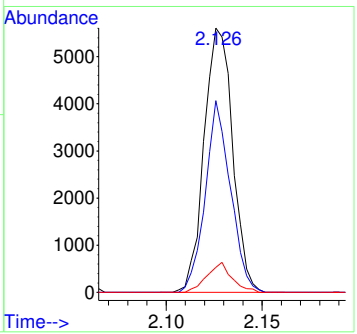


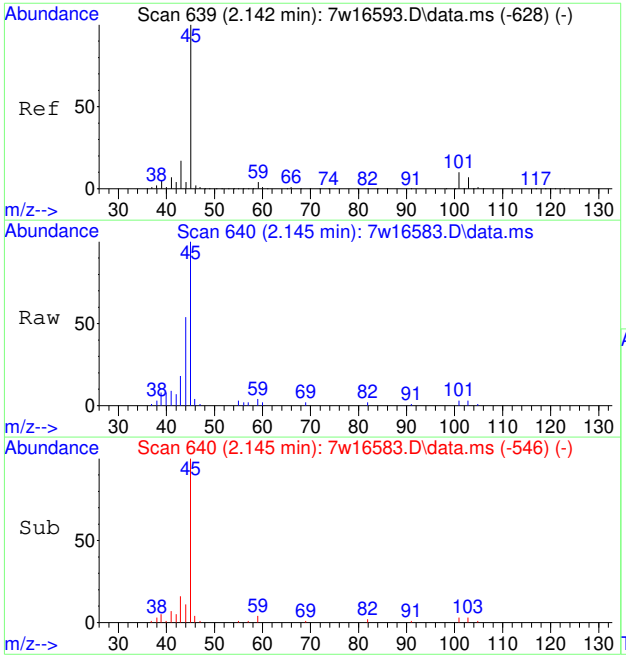


#21
TRICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:101 Resp: 5808

Ion	Ratio	Lower	Upper
101	100		
103	63.9	44.3	82.3
105	9.9	7.3	13.7

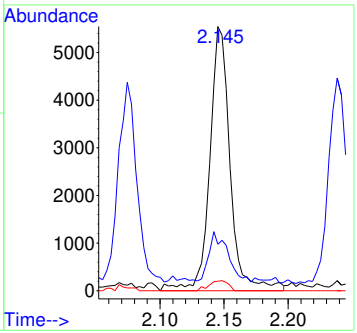


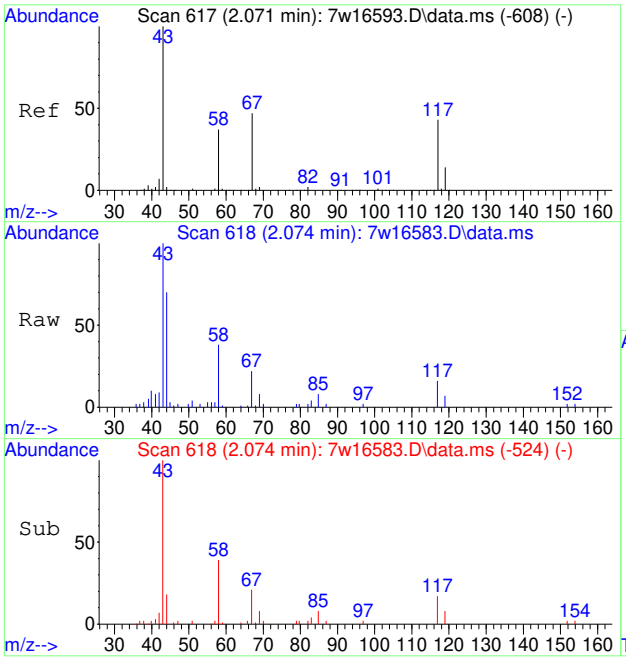


#22
ISOPROPYL ALCOHOL
Concen: 0.23 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 6133

Ion	Ratio	Lower	Upper
45	100		
43	19.2	17.1	31.9
59	3.7	3.1	5.8

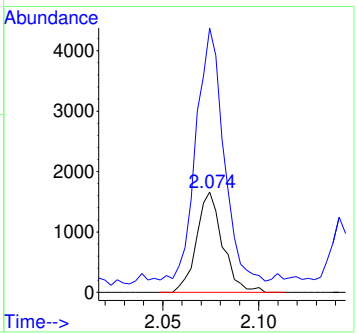


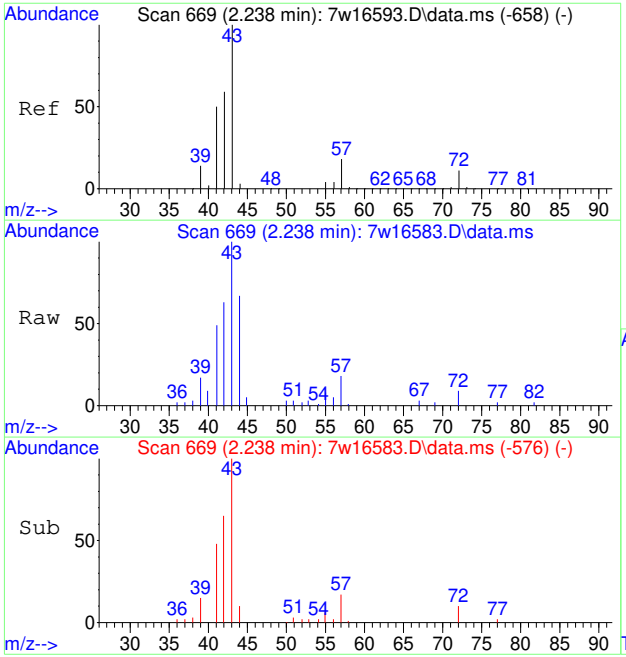


#23
ACETONE
Concen: 0.22 PPBV
RT: 2.074 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 1566

Ion	Ratio	Lower	Upper
58	100		
43	294.4	254.0	471.6

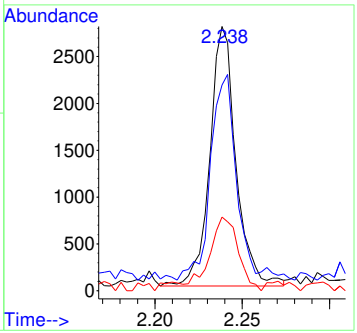


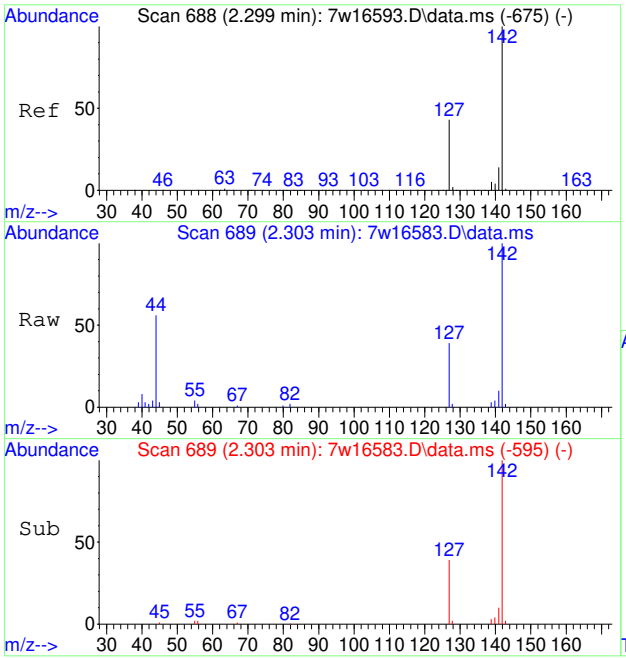


#24
PENTANE
Concen: 0.21 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 42 Resp: 2893

Ion	Ratio	Lower	Upper
42	100		
41	80.3	69.2	128.6
57	35.3	18.6	34.6#

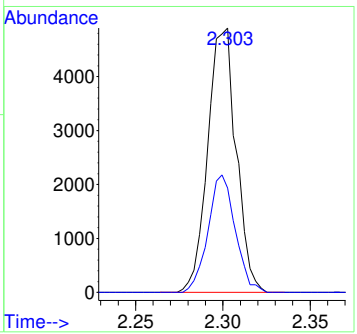


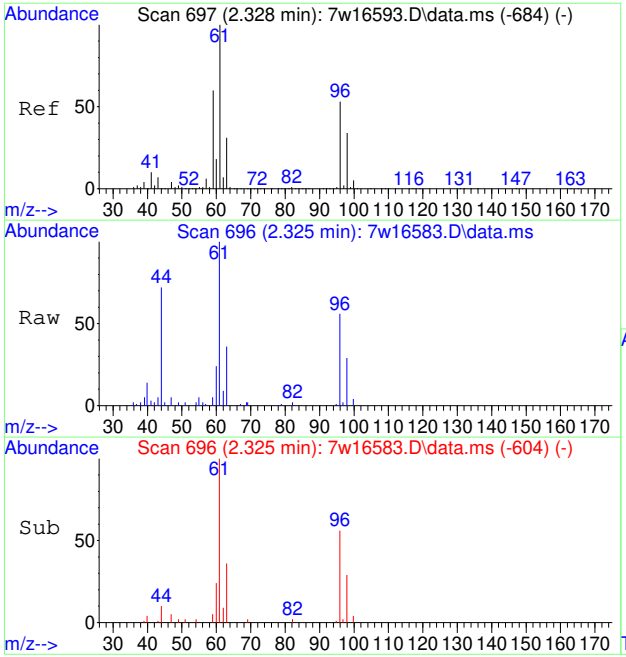


#25
IODOMETHANE
Concen: 0.19 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:142 Resp: 5560

Ion	Ratio	Lower	Upper
142	100		
127	42.5	32.1	59.7

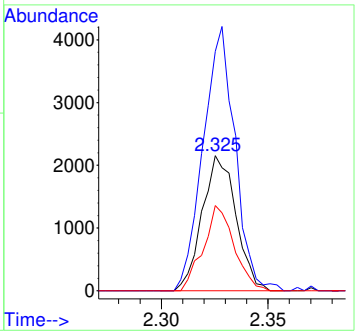


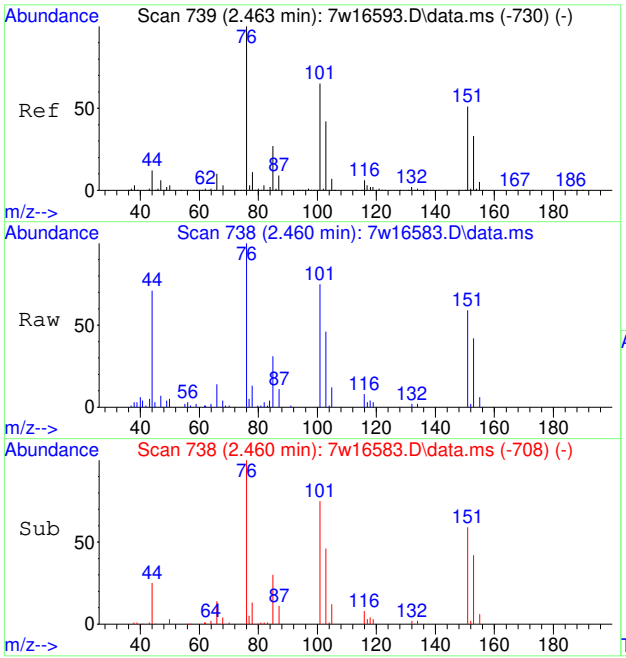


#26
1,1-DICHLOROETHYLENE
Concen: 0.20 PPBV
RT: 2.325 min Scan# 696
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2379

Ion	Ratio	Lower	Upper
96	100		
61	184.2	98.3	182.5#
63	57.3	33.2	61.7

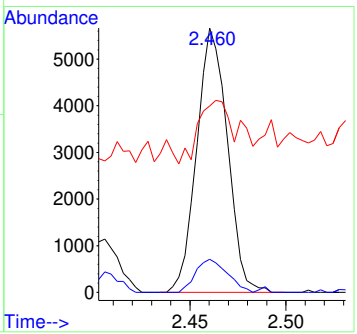


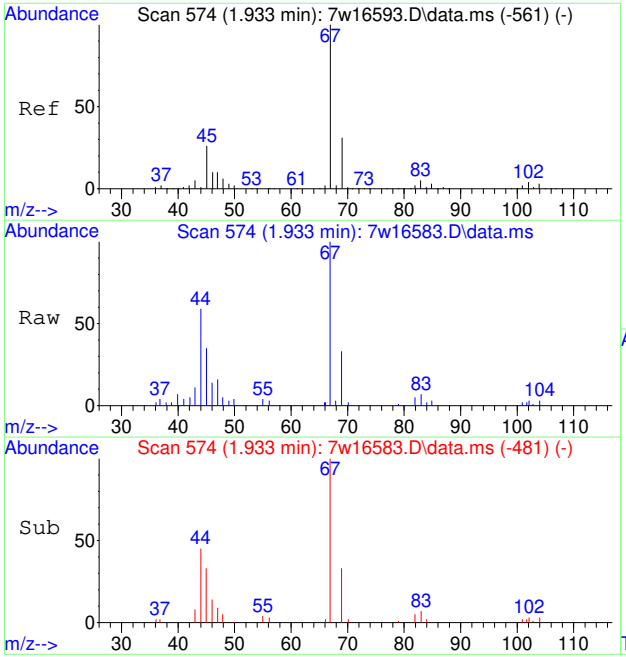


#27
CARBON DISULFIDE
Concen: 0.18 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 6298

Ion	Ratio	Lower	Upper
76	100		
78	13.5	8.3	15.3
44	32.0	13.0	24.1#

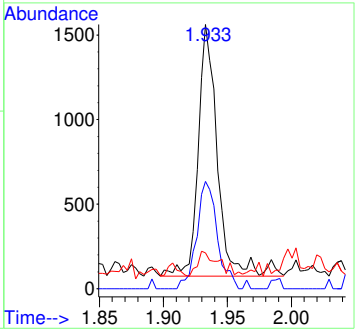


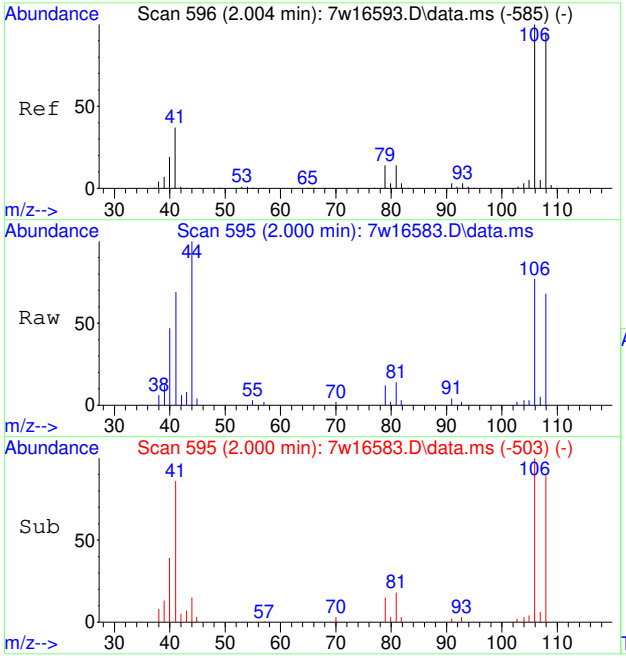


#28
ETHANOL
Concen: 0.23 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 1573

Ion	Ratio	Lower	Upper
45	100		
46	45.7	29.7	55.1
42	11.8	7.3	13.5

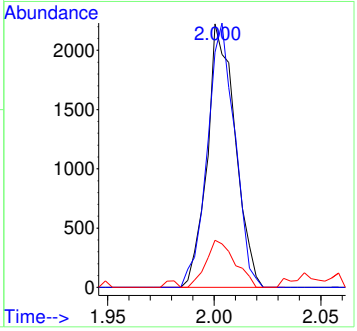


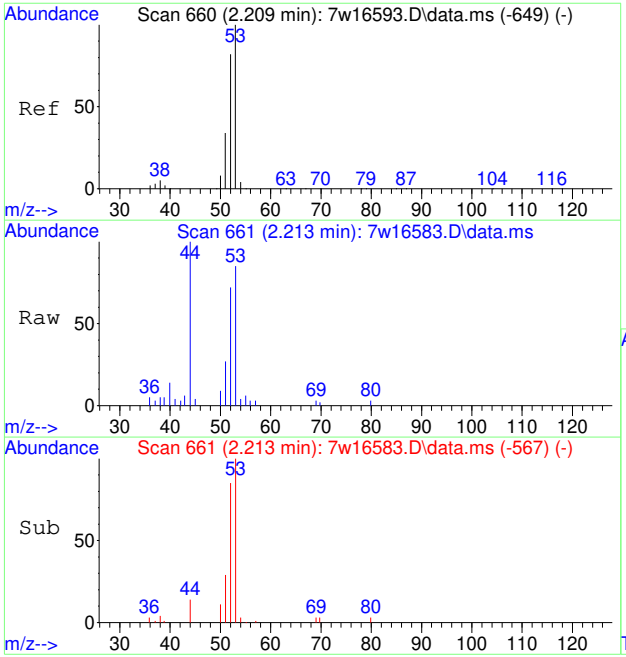


#29
BROMOETHENE
Concen: 0.18 PPBV
RT: 2.000 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:106 Resp: 2033

Ion	Ratio	Lower	Upper
106	100		
108	98.3	68.3	126.8
81	19.5	14.7	27.3

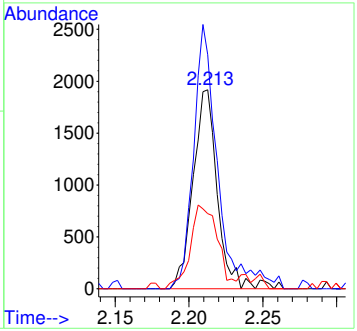


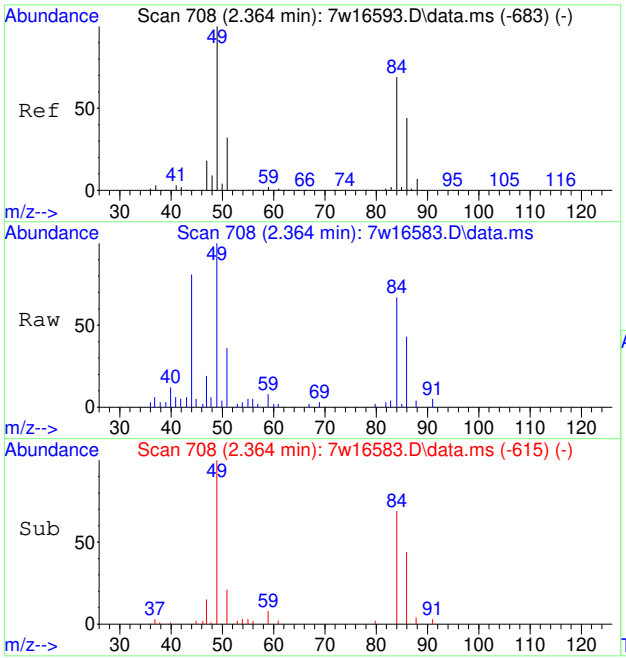


#30
ACRYLONITRILE
Concen: 0.22 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 2213

Ion	Ratio	Lower	Upper
52	100		
53	130.7	86.3	160.3
51	48.0	33.6	62.4

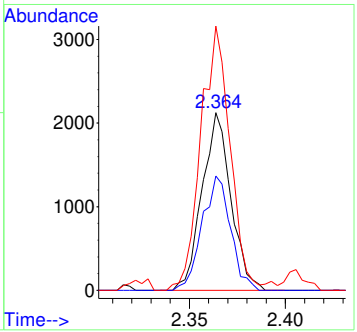


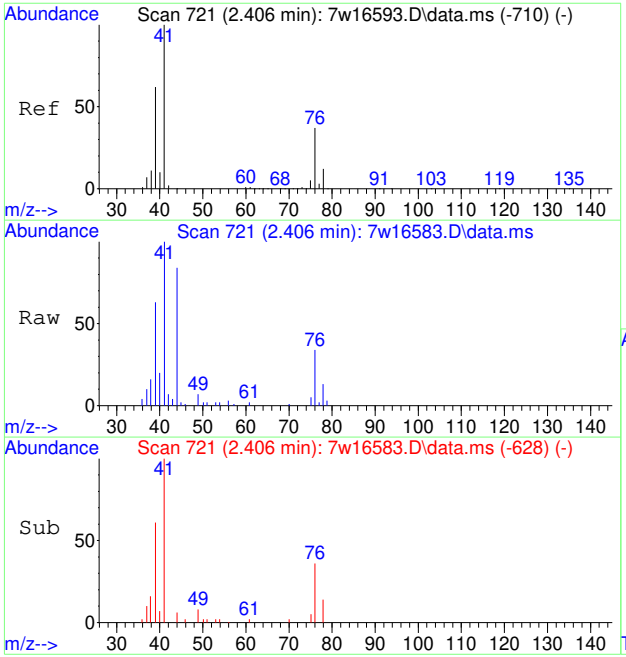


#31
METHYLENE CHLORIDE
Concen: 0.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 2222

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.9	83.5
49	150.6	79.7	148.1#

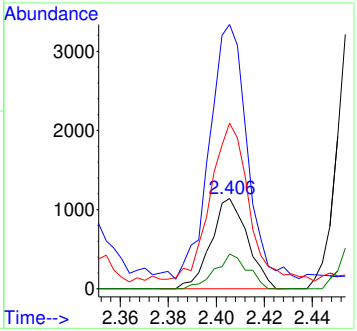


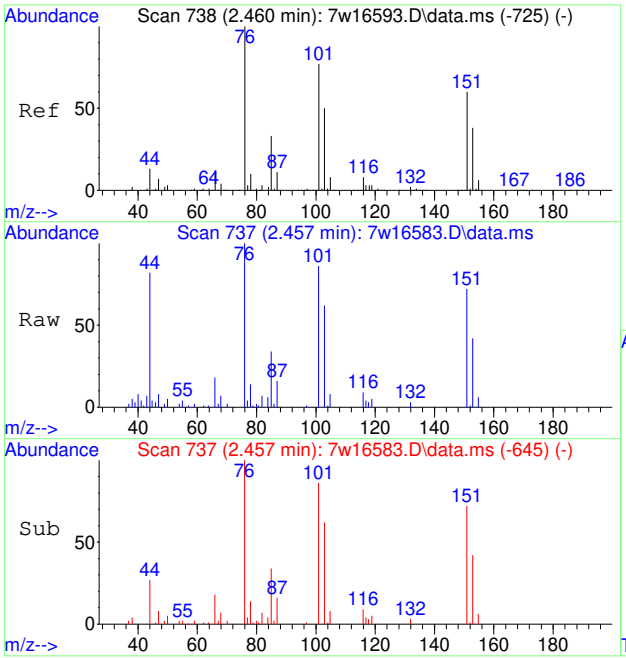


#32
3-CHLOROPROPENE
Concen: 0.19 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 1202

Ion	Ratio	Lower	Upper
76	100		
41	279.0	160.9	298.9
39	185.3	150.7	279.9
78	34.5	22.7	42.1

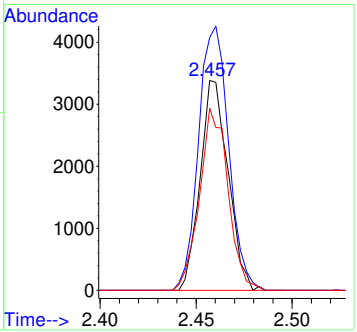


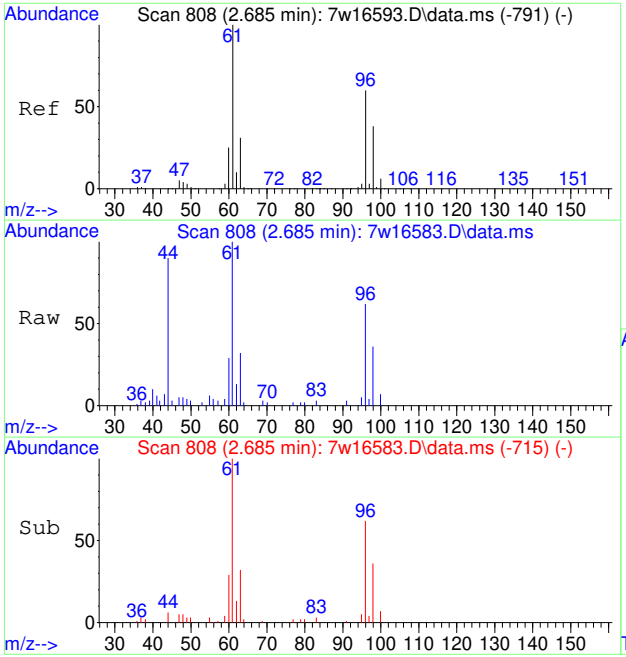


#33
FREON 113
Concen: 0.19 PPBV
RT: 2.457 min Scan# 737
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:151 Resp: 3430

Ion	Ratio	Lower	Upper
151	100		
101	135.4	81.1	150.7
103	88.3	51.4	95.4

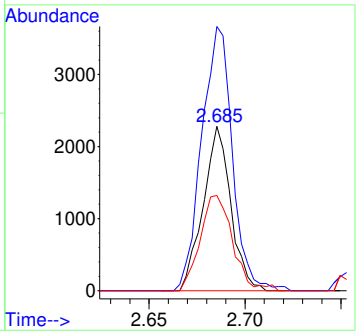


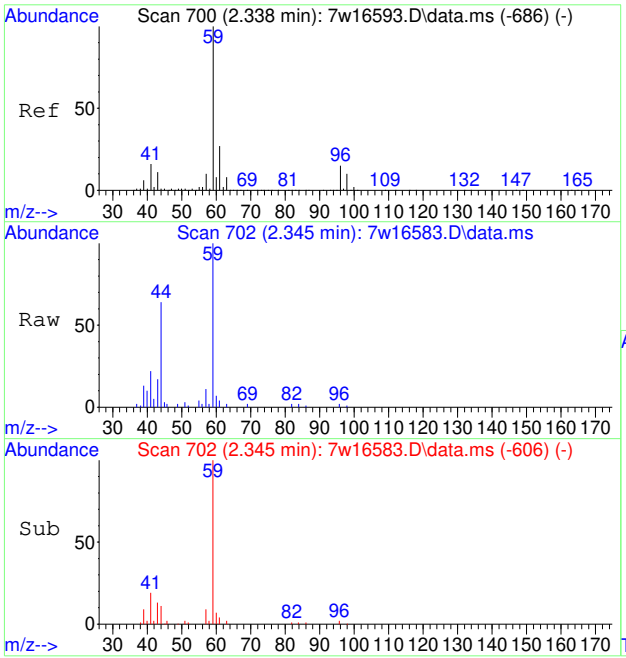


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.18 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2282

Ion	Ratio	Lower	Upper
96	100		
61	178.7	78.5	145.9#
98	68.1	46.5	86.3

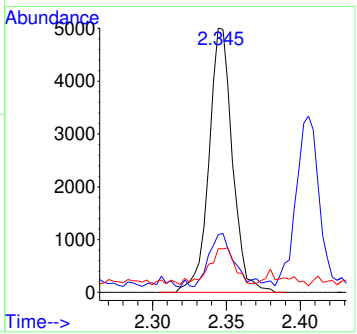


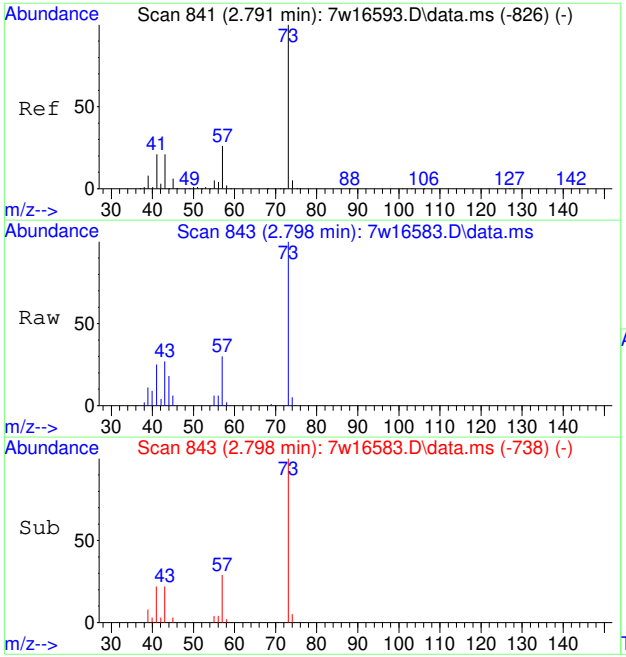


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.17 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 5515

Ion	Ratio	Lower	Upper
59	100		
41	22.6	15.3	28.5
43	15.4	12.3	22.9

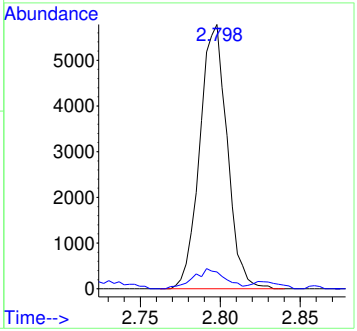


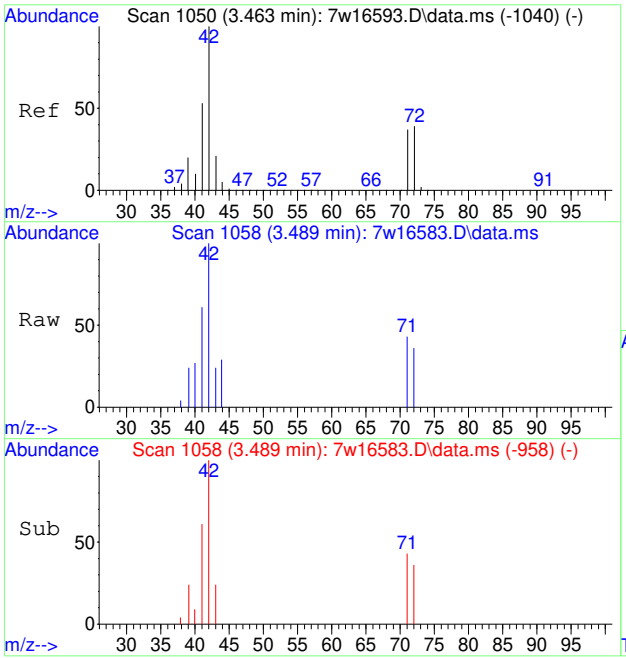


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.19 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 73 Resp: 6887

Ion	Ratio	Lower	Upper
73	100		
45	8.7	3.4	6.4#

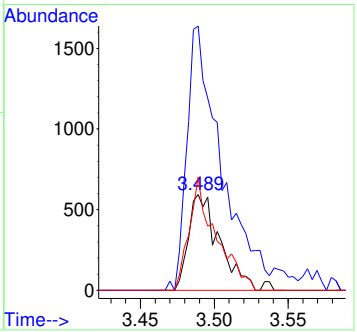


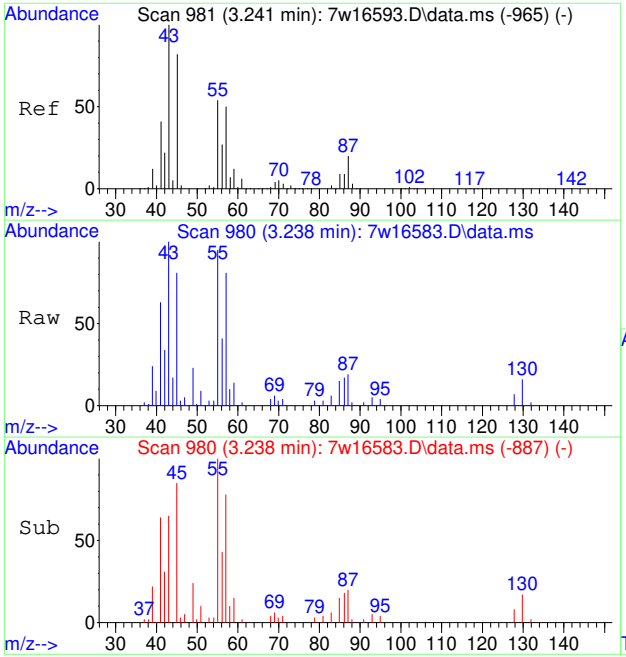


#37
TETRAHYDROFURAN
Concen: 0.14 PPBV
RT: 3.489 min Scan# 1058
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 887

Ion	Ratio	Lower	Upper
72	100		
42	327.1	153.0	284.2#
71	100.5	62.7	116.5

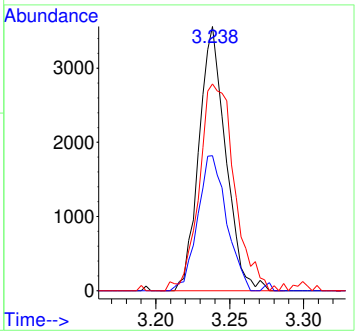


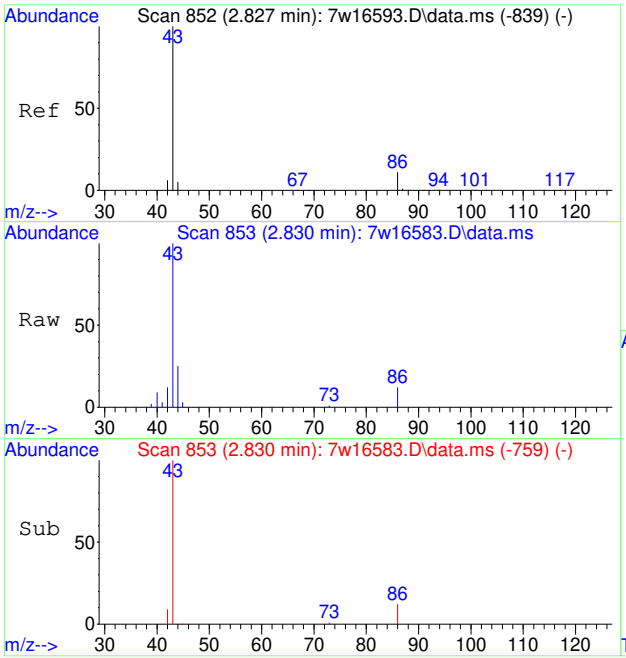


#38
HEXANE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 4468

Ion	Ratio	Lower	Upper
57	100		
56	56.0	37.3	69.3
41	104.9	86.7	161.1

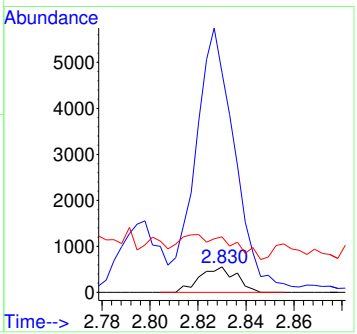


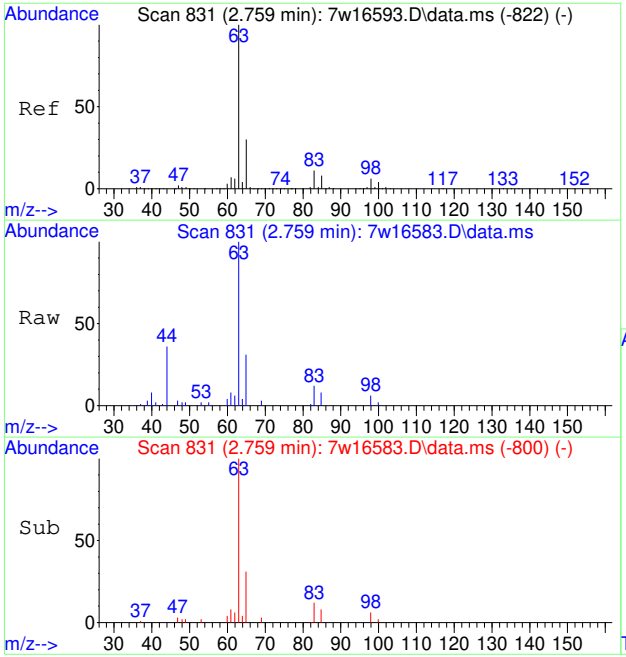


#39
VINYL ACETATE
Concen: 0.16 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 86 Resp: 581

Ion	Ratio	Lower	Upper
86	100		
43	1147.3	667.9	1240.3
44	110.5	32.7	60.7#

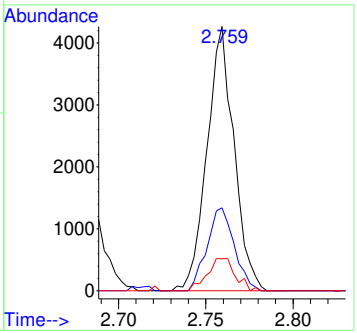


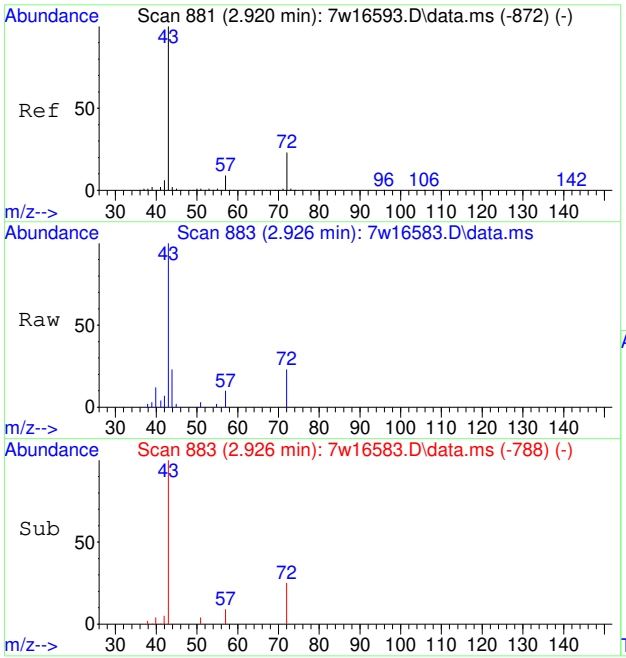


#40
1,1-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 4599

Ion	Ratio	Lower	Upper
63	100		
65	31.7	21.8	40.6
83	12.7	10.6	19.6

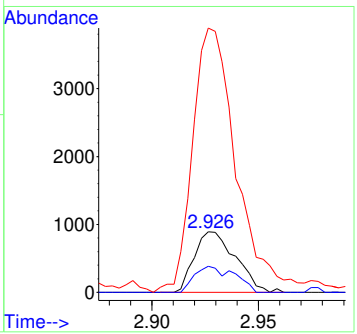


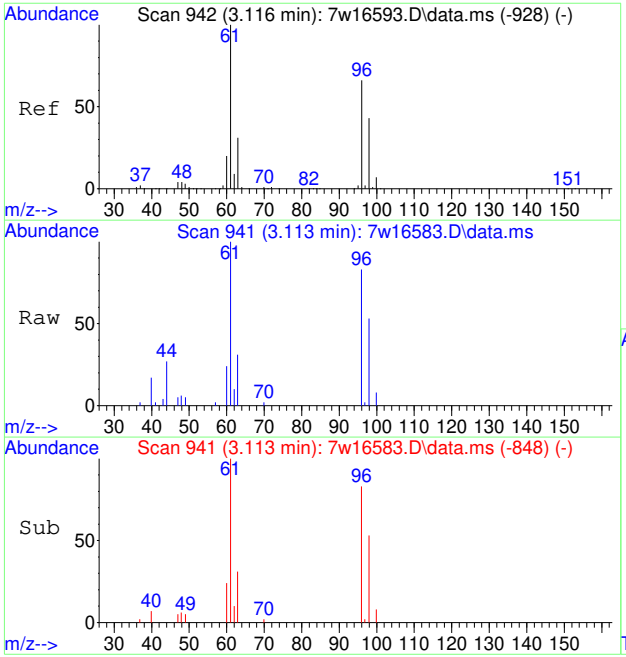


#41
METHYL ETHYL KETONE
Concen: 0.18 PPBV
RT: 2.926 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 1205

Ion	Ratio	Lower	Upper
72	100		
57	41.7	20.3	37.7#
43	447.8	282.8	525.2

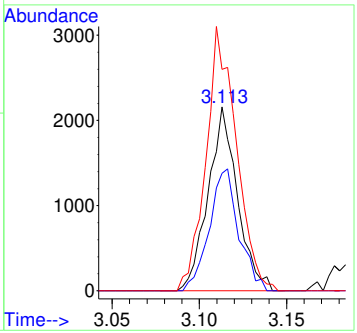


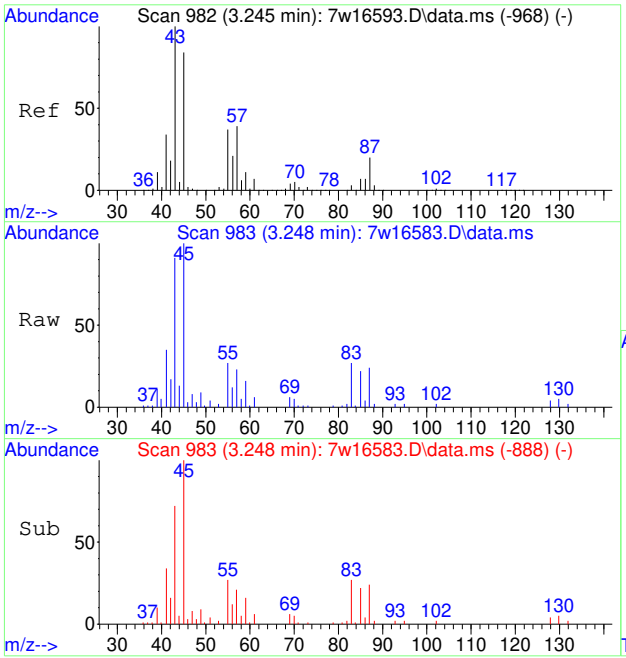


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.19 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2527

Ion	Ratio	Lower	Upper
96	100		
98	66.4	46.8	86.8
61	148.8	78.3	145.5#

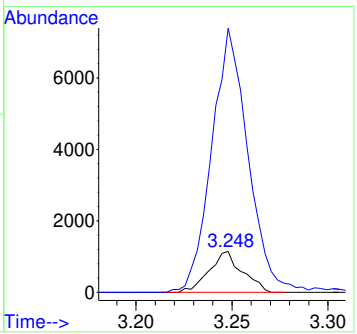


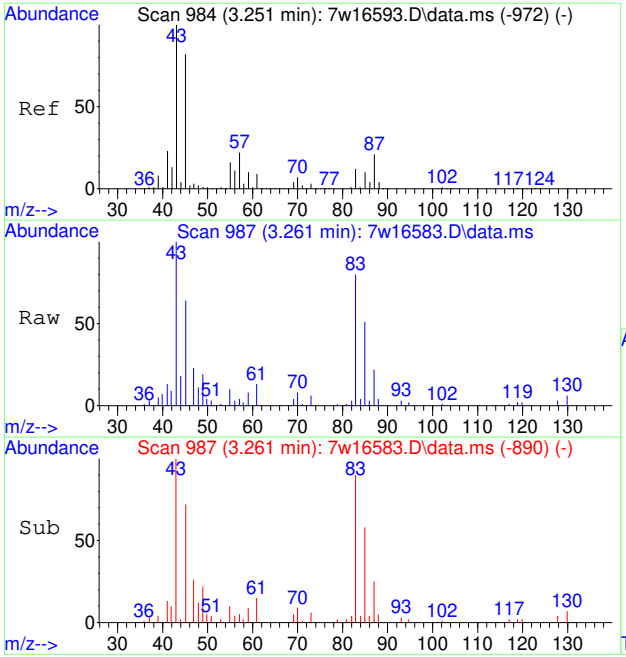


#43
DIISOPROPYL ETHER
Concen: 0.20 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 1371

Ion	Ratio	Lower	Upper
59	100		
45	718.4	532.1	988.1

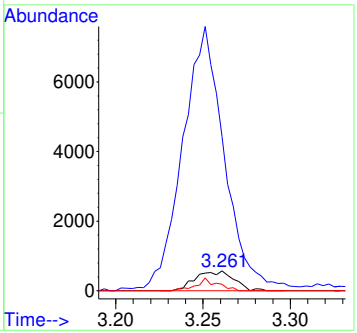


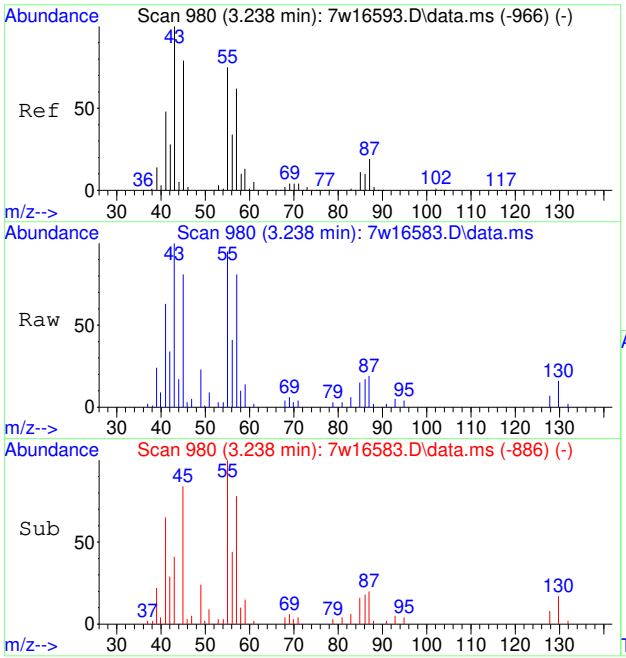


#44
ETHYL ACETATE
Concen: 0.18 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 61 Resp: 871

Ion	Ratio	Lower	Upper
61	100		
43	1463.9	1127.5	2093.9
88	36.2	36.2	67.2#

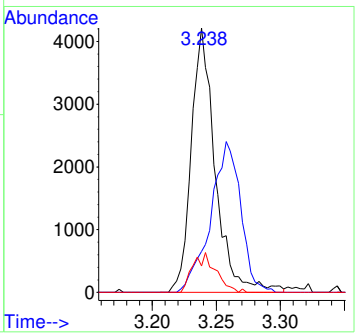


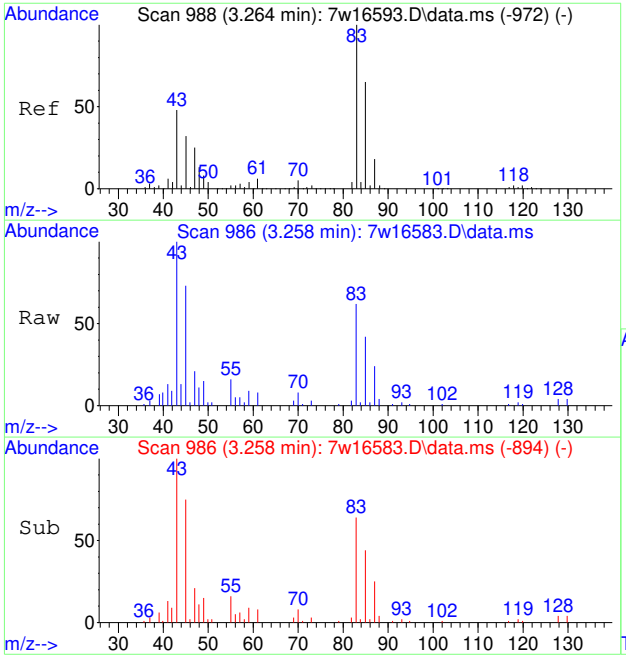


#45
METHYL ACRYLATE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 5488

Ion	Ratio	Lower	Upper
55	100		
85	71.8	0.0	0.0#
58	14.5	9.2	17.0

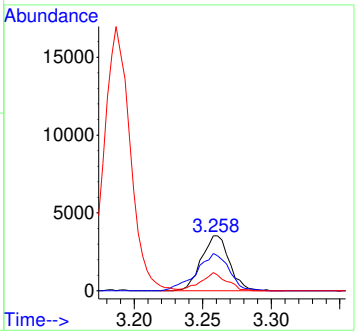


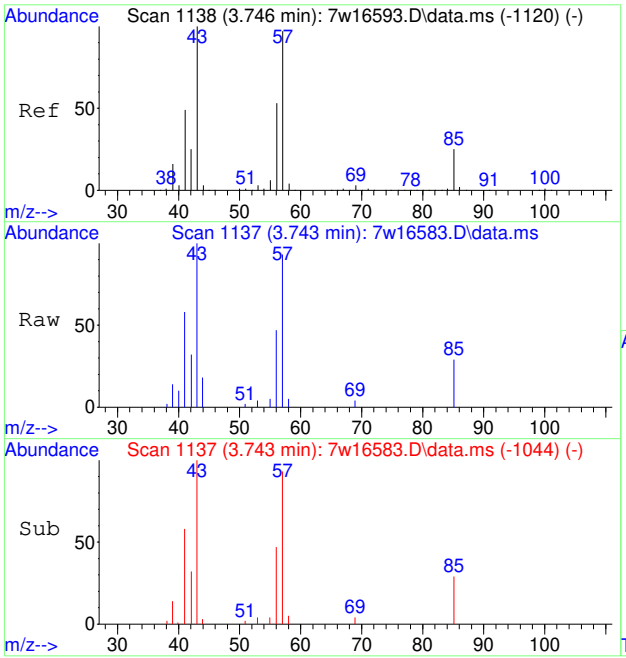


#46
CHLOROFORM
Concen: 0.19 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5027

Ion	Ratio	Lower	Upper
83	100		
85	78.4	54.6	101.4
47	30.5	17.9	33.3

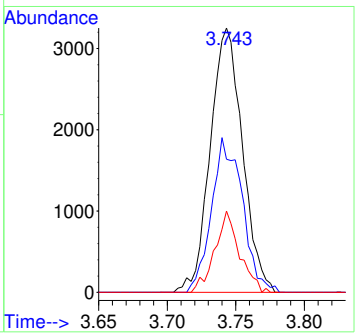


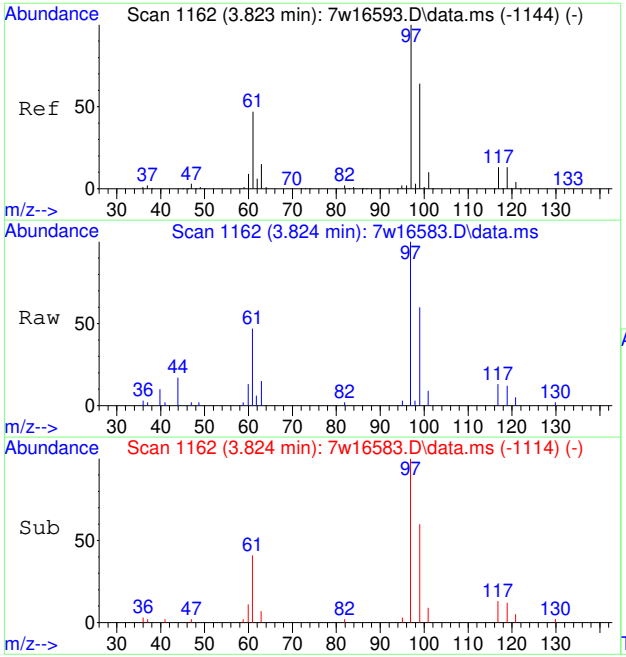


#47
2,4-DIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 5307

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	23.6	24.1	44.7#

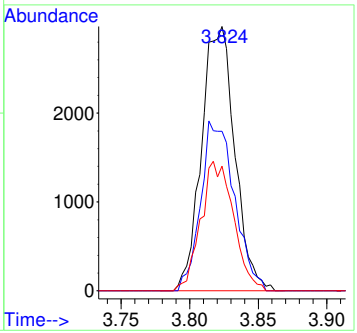


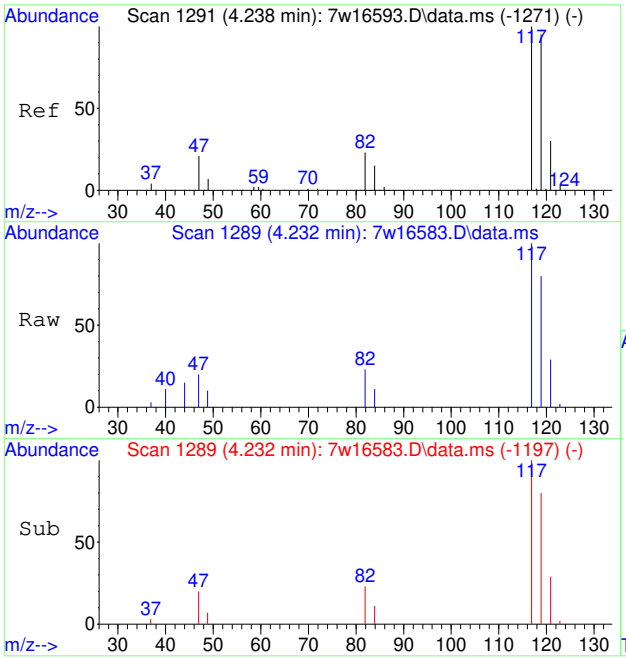


#48
1,1,1-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 97 Resp: 5006

Ion	Ratio	Lower	Upper
97	100		
99	64.9	44.9	83.5
61	48.3	28.6	53.0

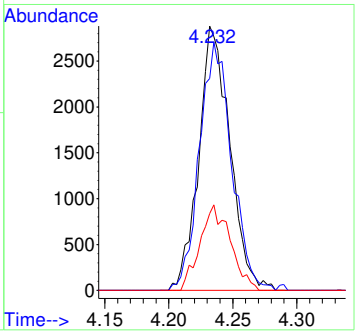


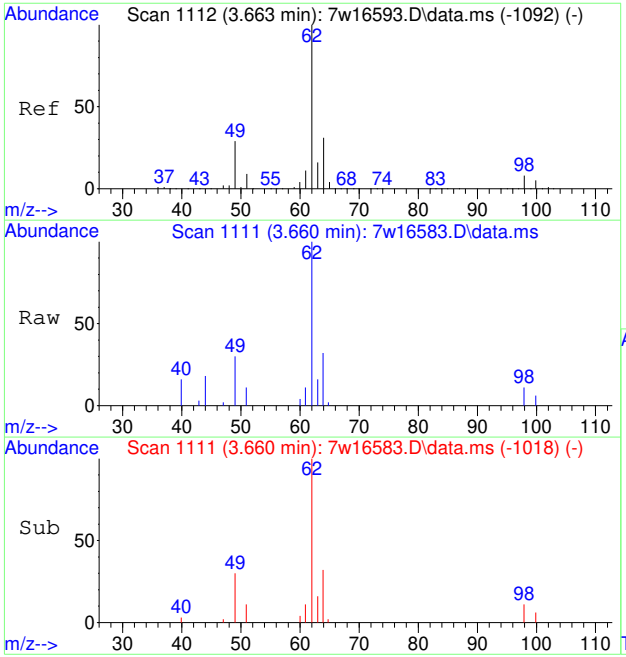


#49
CARBON TETRACHLORIDE
Concen: 0.16 PPBV
RT: 4.232 min Scan# 1289
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 4884

Ion	Ratio	Lower	Upper
117	100		
119	97.2	68.8	127.8
121	31.6	22.2	41.2

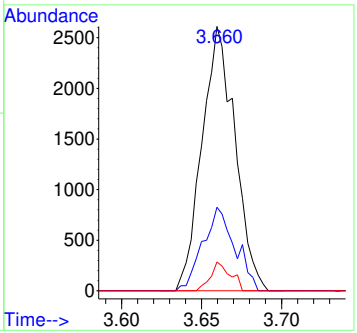


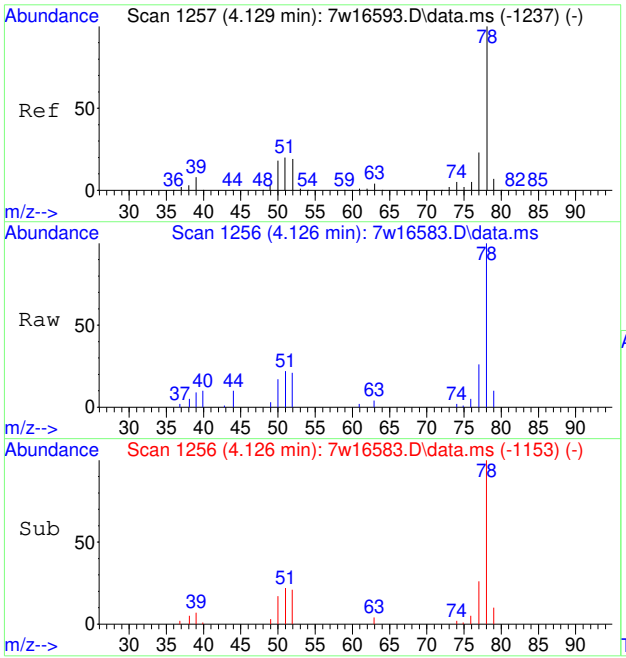


#50
1,2-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.660 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 3746

Ion	Ratio	Lower	Upper
62	100		
64	30.7	22.5	41.7
98	6.6	6.8	12.6#

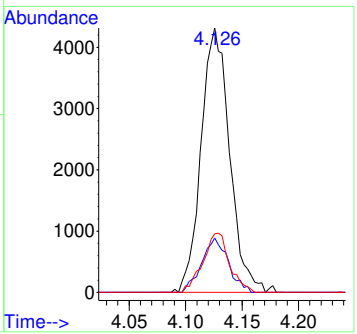


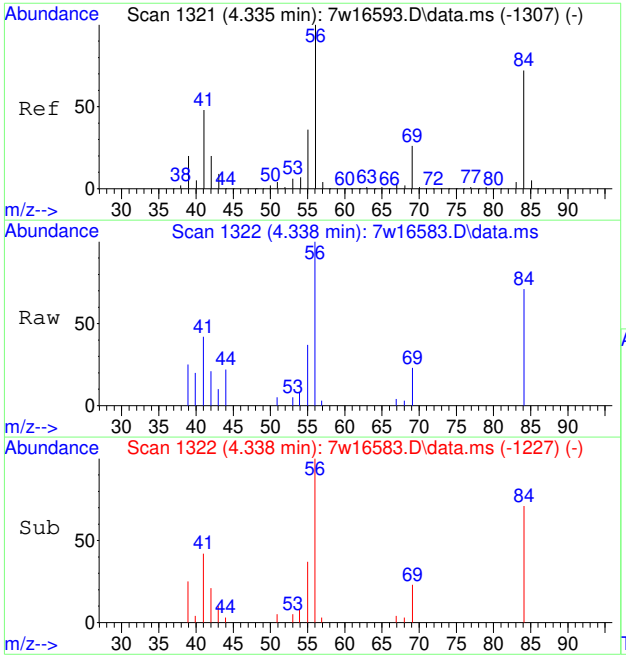


#51
BENZENE
Concen: 0.19 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 78 Resp: 7569

Ion	Ratio	Lower	Upper
78	100		
52	19.2	0.0	44.6
51	20.8	0.0	47.3

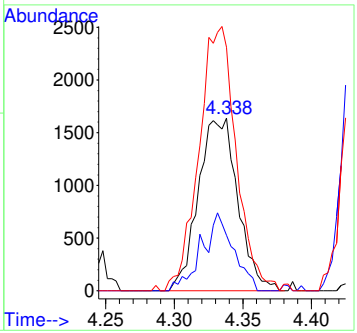


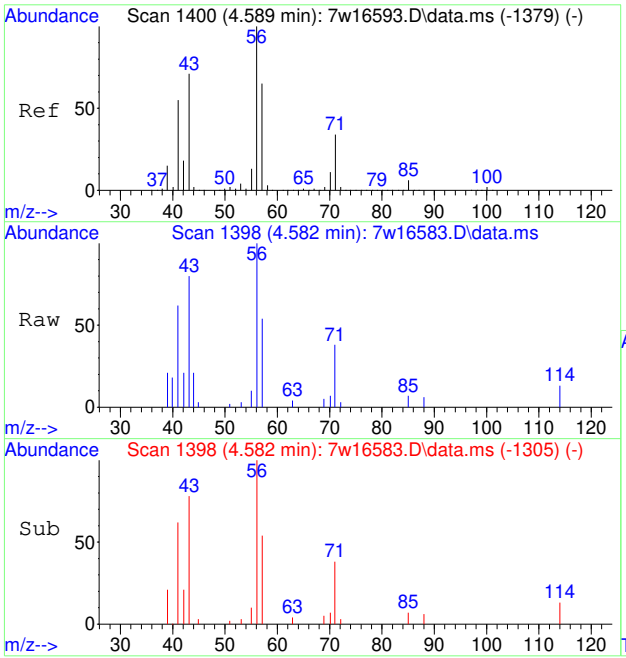


#53
CYCLOHEXANE
Concen: 0.18 PPBV
RT: 4.338 min Scan# 1322
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 3276

Ion	Ratio	Lower	Upper
84	100		
69	36.2	22.3	41.5
56	145.6	70.2	130.4#

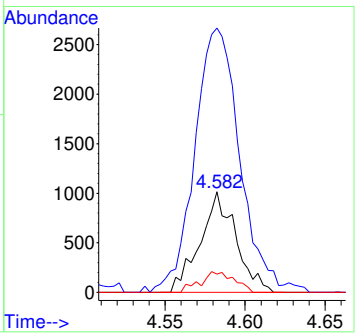


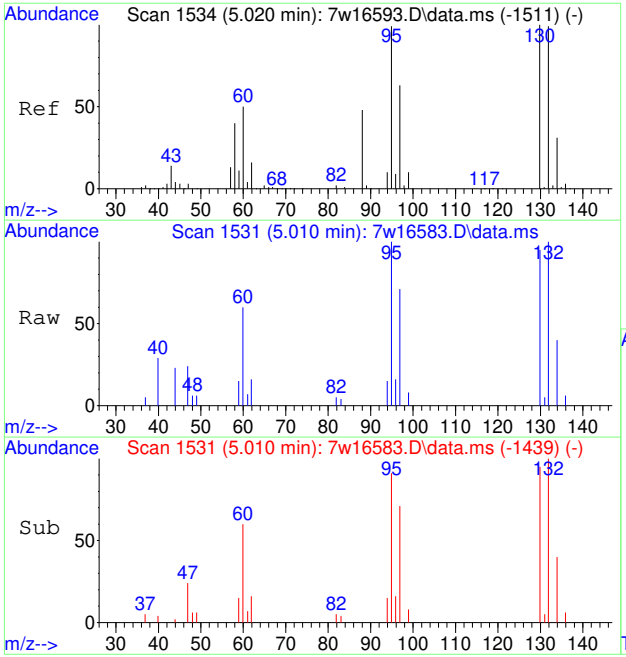


#54
2,3-DIMETHYLPENTANE
Concen: 0.17 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 71 Resp: 1571

Ion	Ratio	Lower	Upper
71	100		
56	333.0	171.4	318.4#
85	19.6	12.6	23.4

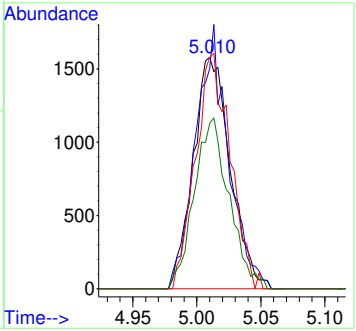


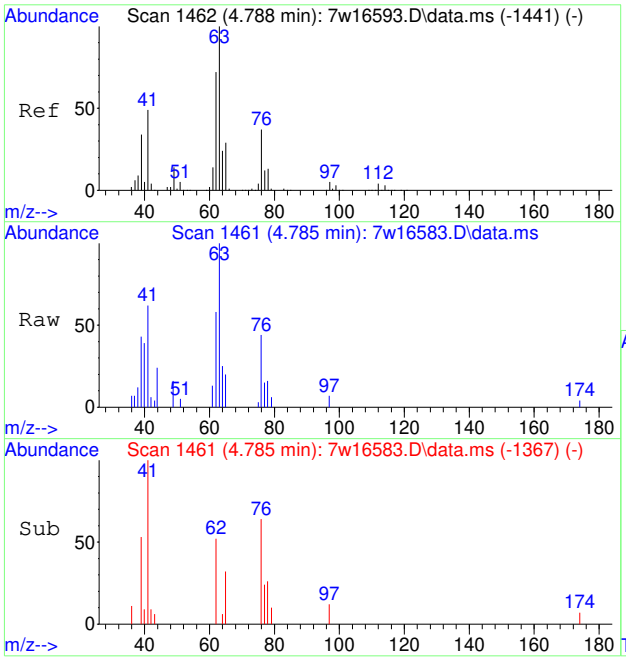


#55
TRICHLOROETHENE
Concen: 0.17 PPBV
RT: 5.010 min Scan# 1531
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 95 Resp: 3186

Ion	Ratio	Lower	Upper
95	100		
130	100.2	85.9	159.5
132	95.3	79.4	147.4
97	69.5	45.0	83.6

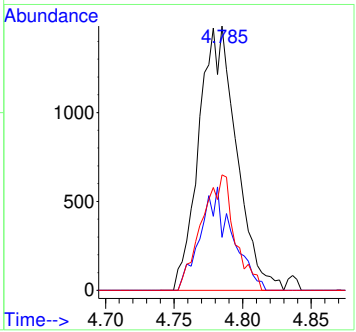


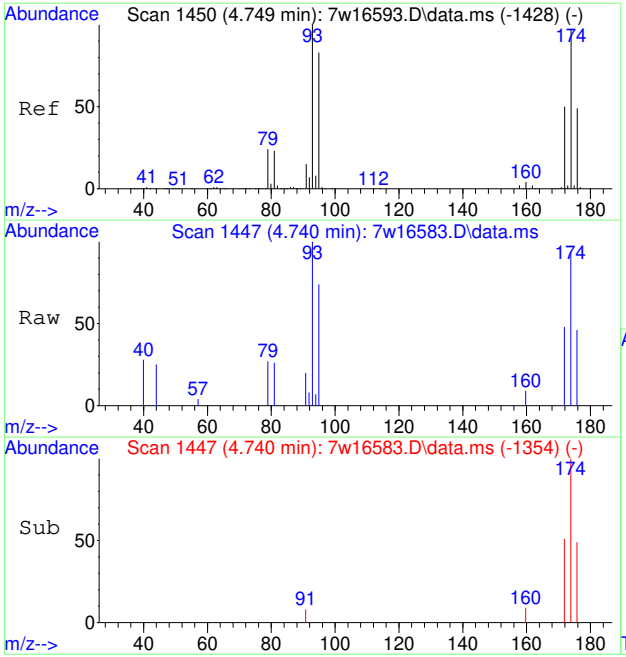


#56
1,2-DICHLOROPROPANE
Concen: 0.17 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 2832

Ion	Ratio	Lower	Upper
63	100		
65	33.3	22.6	42.0
76	38.5	31.8	59.0

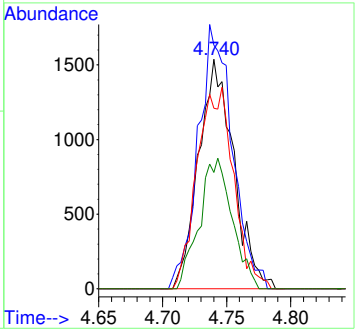


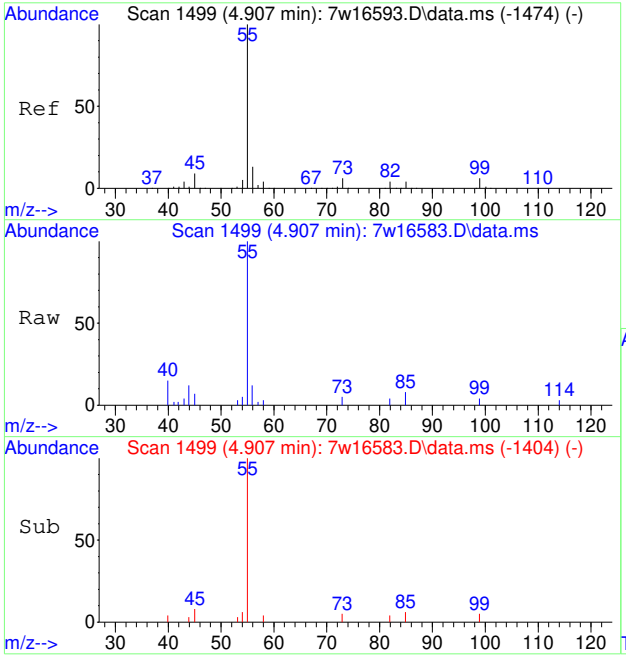


#57
DIBROMOMETHANE
Concen: 0.19 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:174 Resp: 2923

Ion	Ratio	Lower	Upper
174	100		
93	112.0	67.3	125.1
95	91.2	56.8	105.6
172	53.5	36.3	67.5

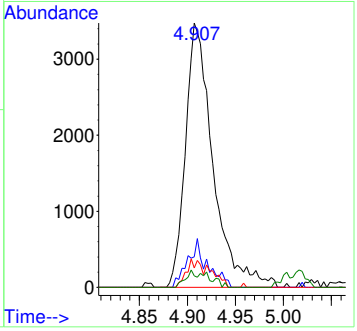


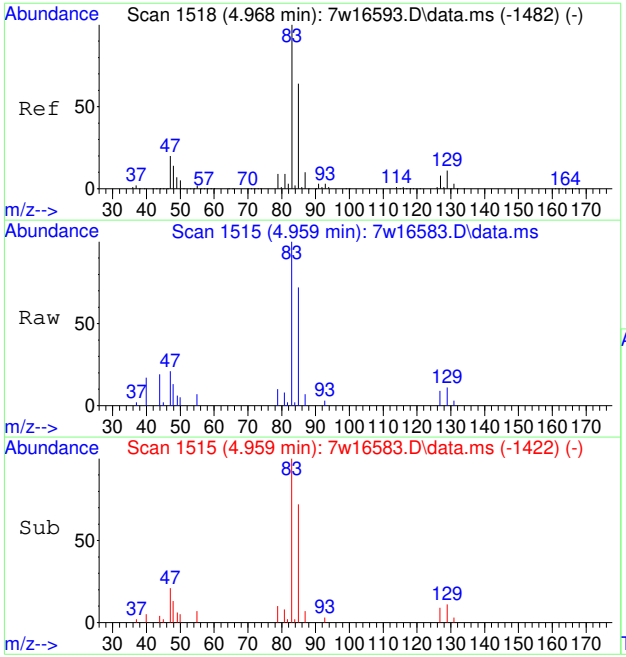


#58
ETHYL ACRYLATE
Concen: 0.18 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 6937

Ion	Ratio	Lower	Upper
55	100		
56	13.2	7.9	14.7
45	9.0	6.6	12.2
99	5.3	6.2	11.6#

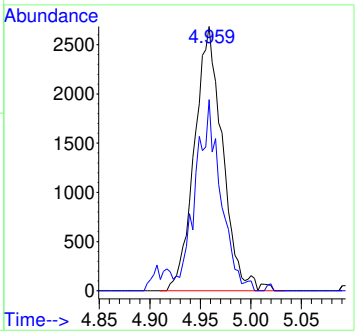


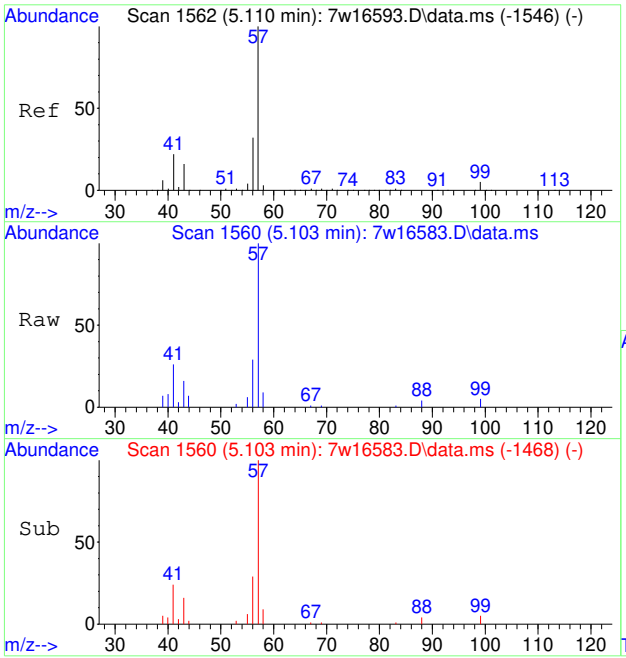


#59
BROMODICHLOROMETHANE
Concen: 0.16 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5187

Ion	Ratio	Lower	Upper
83	100		
85	70.2	44.9	83.5

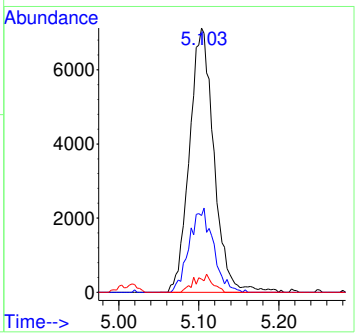


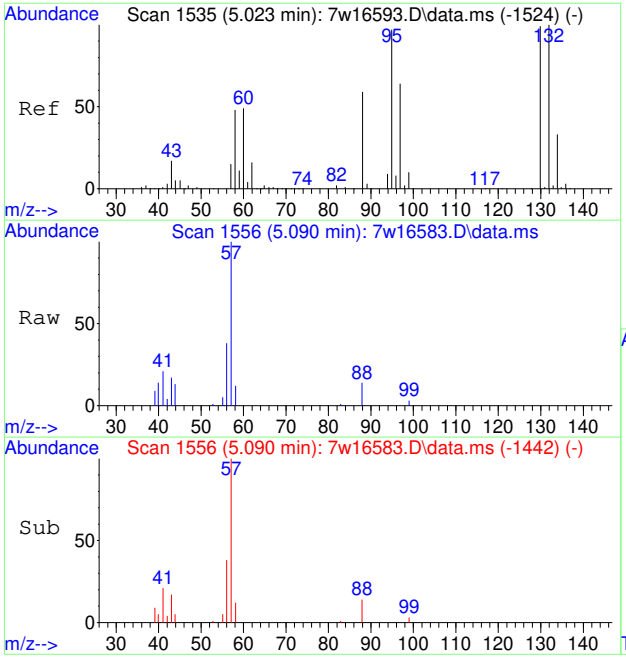


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 15119

Ion	Ratio	Lower	Upper
57	100		
56	31.5	24.4	45.2
99	4.9	5.2	9.6#

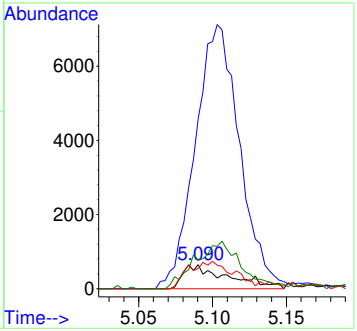


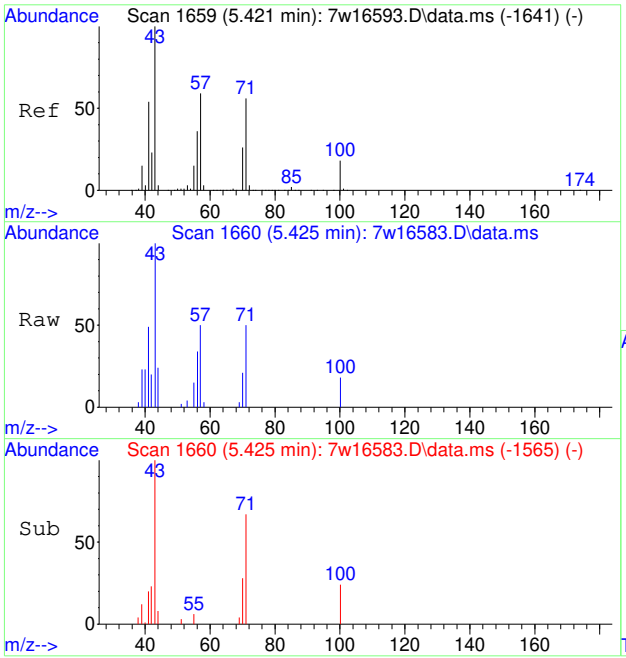


#61
1,4-DIOXANE
Concen: 0.15 PPBV
RT: 5.090 min Scan# 1556
Delta R.T. 0.068 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 88 Resp: 1375

Ion	Ratio	Lower	Upper
88	100		
57	1099.6	13.1	24.3#
58	117.7	39.1	72.5#
43	219.3	18.3	33.9#

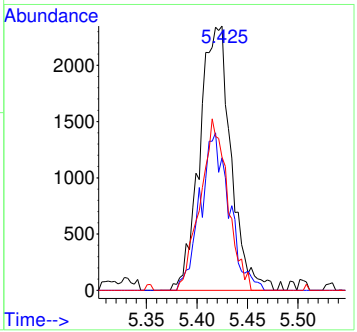


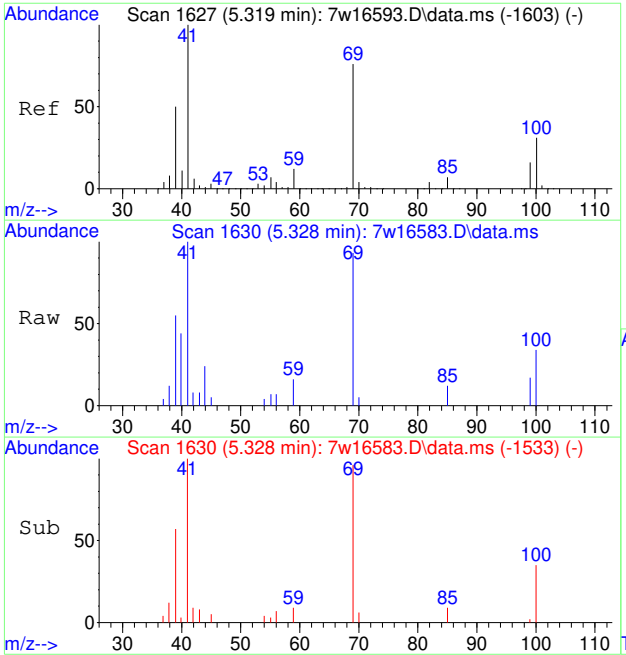


#62
HEPTANE
Concen: 0.19 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 5077

Ion	Ratio	Lower	Upper
43	100		
71	55.1	45.0	83.6
57	56.5	37.2	69.0

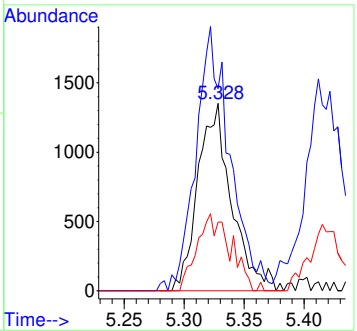


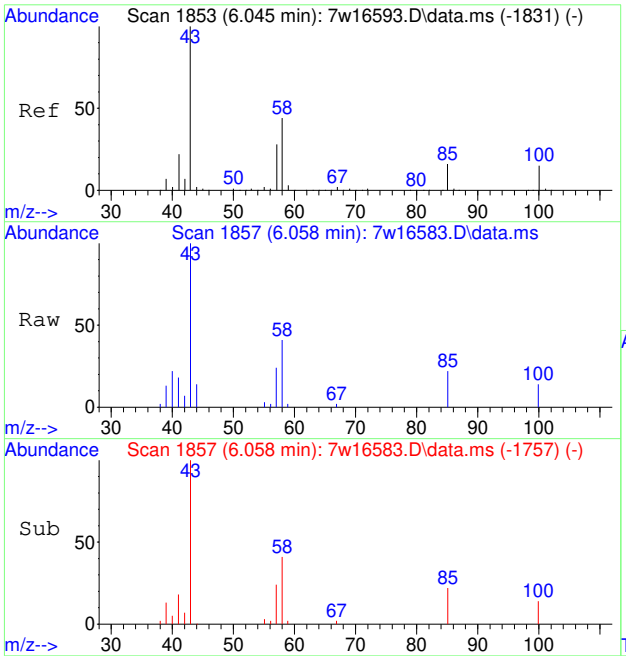


#63
METHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 5.328 min Scan# 1630
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 2638

Ion	Ratio	Lower	Upper
69	100		
41	142.4	84.3	156.5
100	41.0	30.8	57.2

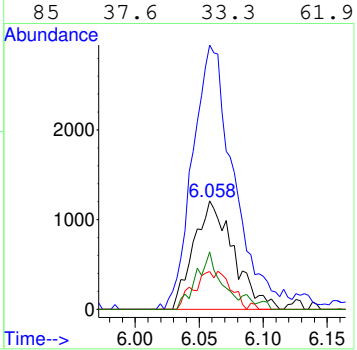


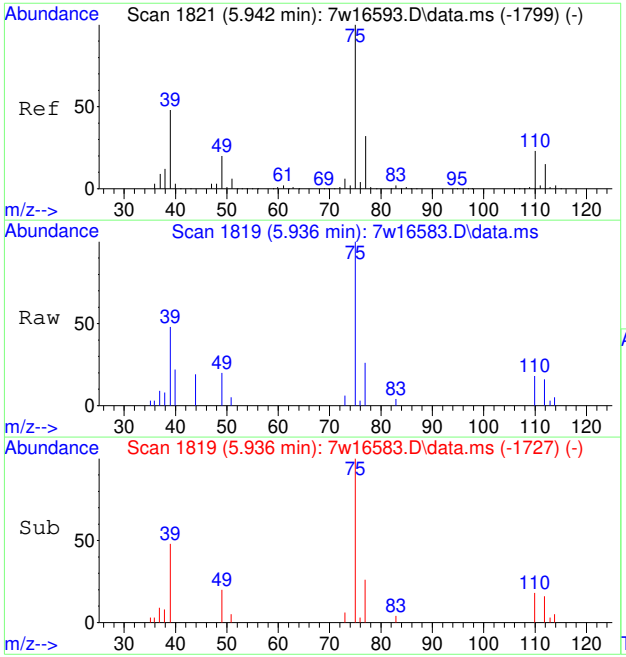


#64
METHYL ISOBUTYL KETONE
Concen: 0.17 PPBV
RT: 6.058 min Scan# 1857
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 2634

Ion	Ratio	Lower	Upper
58	100		
43	259.0	193.8	360.0
100	32.5	32.8	60.8#
85	37.6	33.3	61.9

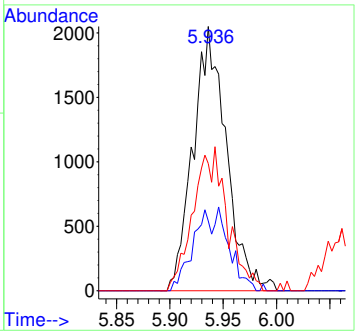


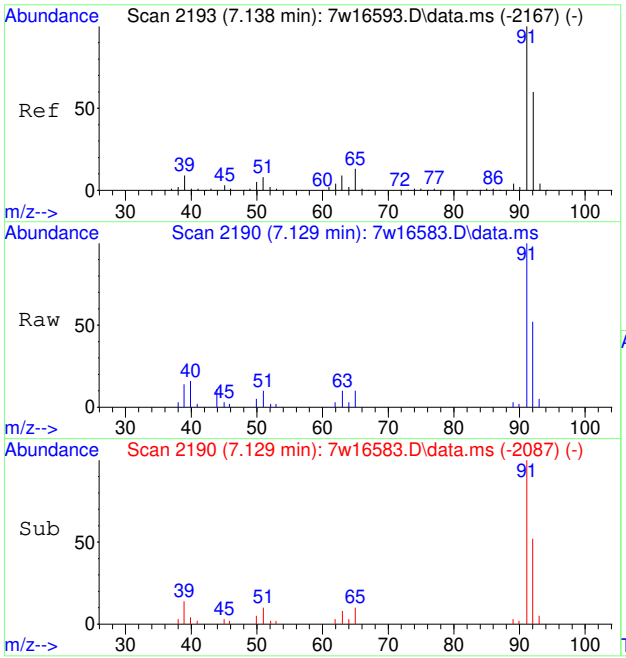


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.17 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 4430

Ion	Ratio	Lower	Upper
75	100		
77	32.6	22.0	40.8
39	55.6	38.5	71.5

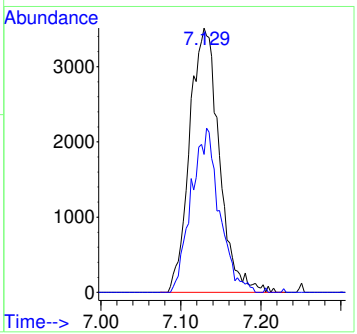


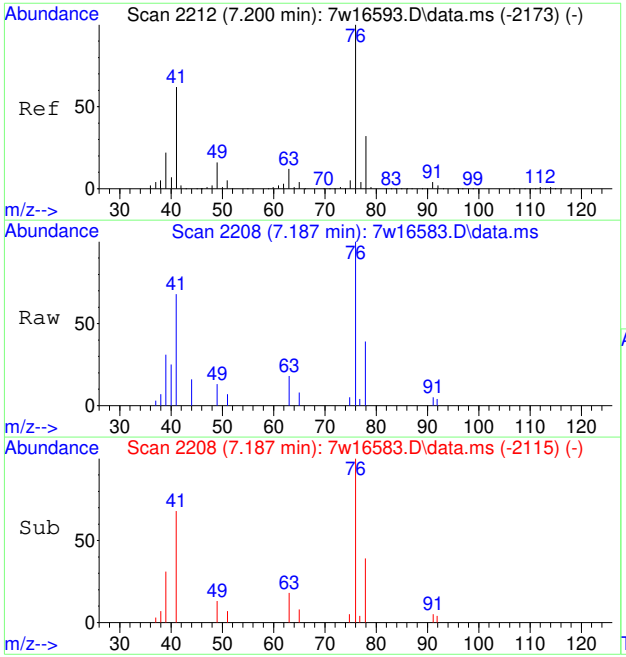


#66
TOLUENE
Concen: 0.19 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9065

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

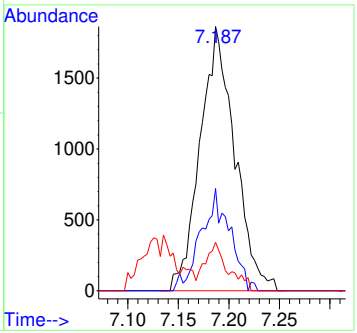


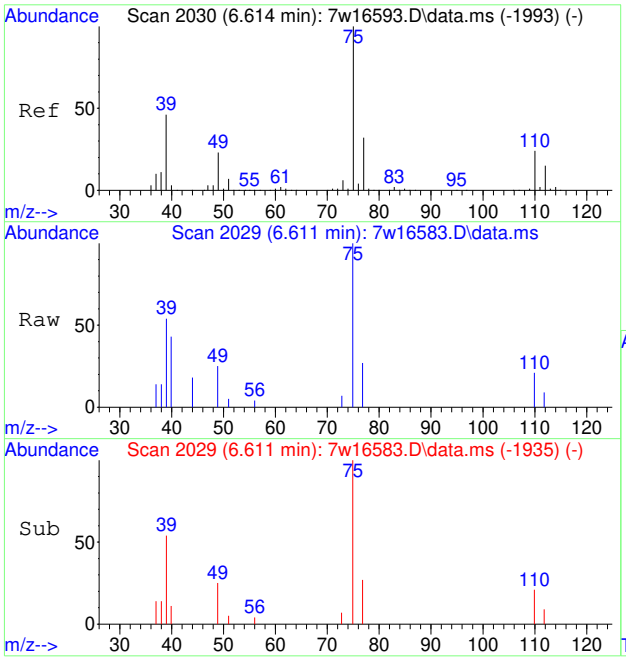


#67
1,3-DICHLOROPROPANE
Concen: 0.18 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 4438

Ion	Ratio	Lower	Upper
76	100		
78	32.2	22.1	41.1
63	12.5	8.0	14.8

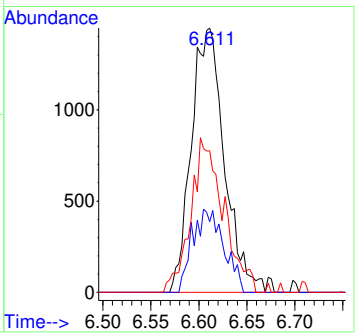


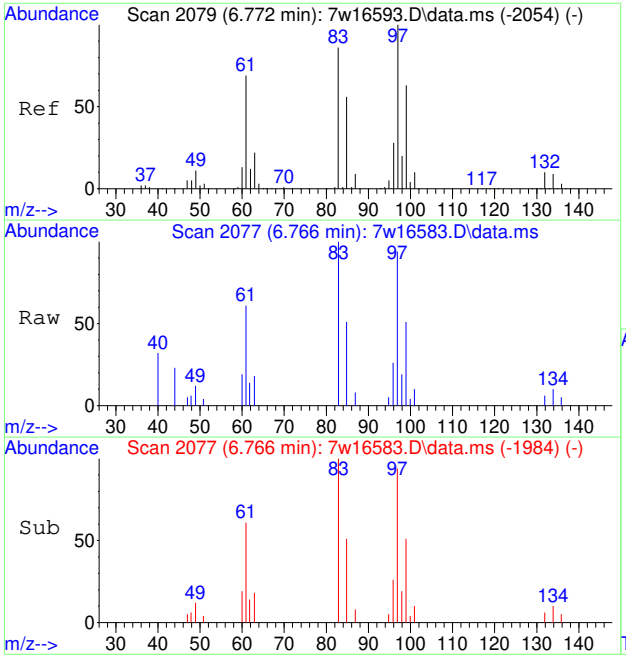


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.14 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 3506

Ion	Ratio	Lower	Upper
75	100		
77	29.5	22.5	41.7
39	57.2	37.2	69.0

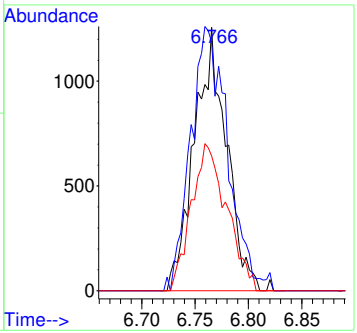


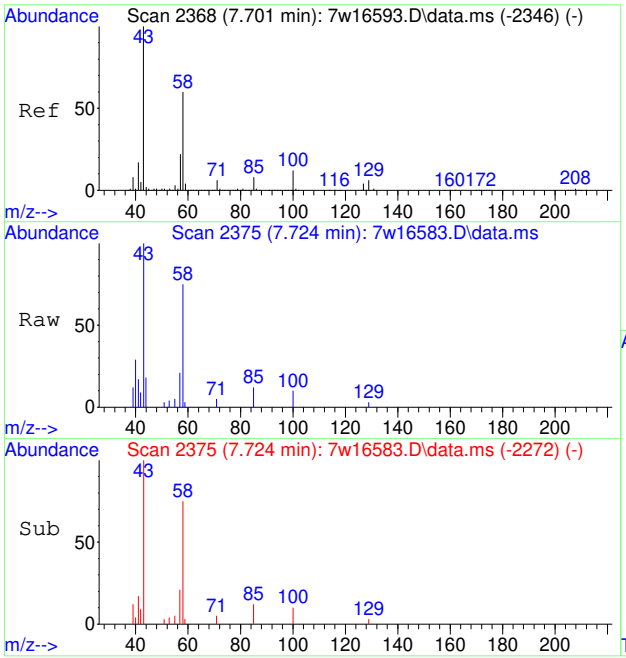


#69
1,1,2-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
97	116.1	86.7	160.9
85	61.6	45.5	84.5

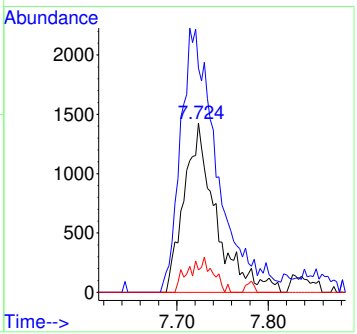


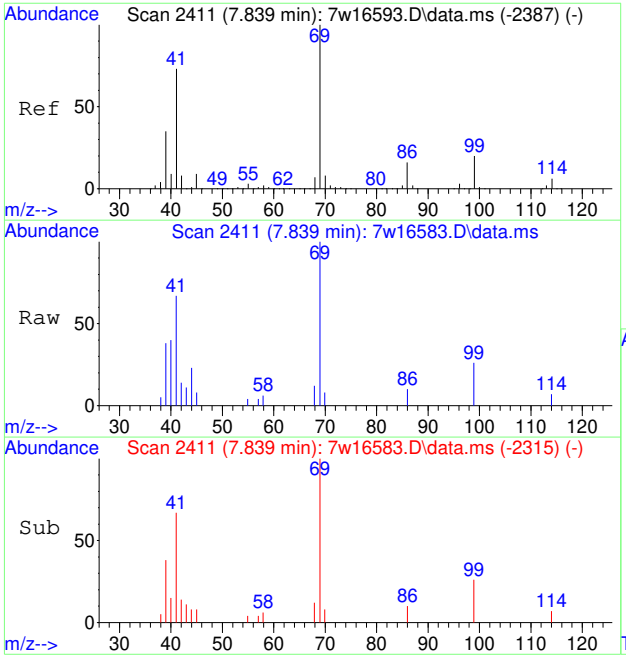


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.724 min Scan# 2375
Delta R.T. 0.032 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 3463

Ion	Ratio	Lower	Upper
58	100		
43	179.8	141.7	263.3
100	15.7	18.9	35.1#

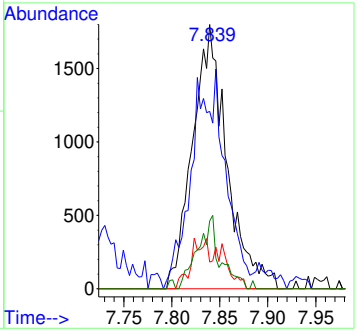


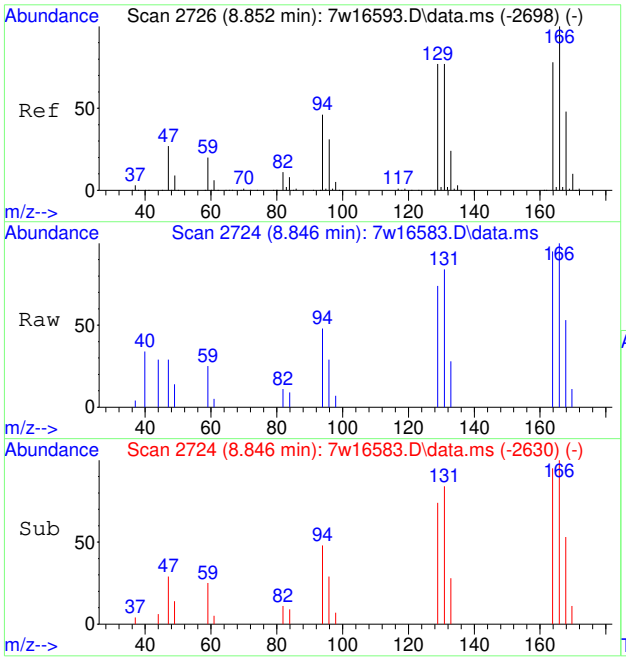


#71
ETHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 4472

Ion	Ratio	Lower	Upper
69	100		
41	82.5	49.3	91.6
86	7.3	11.6	21.6#
99	18.8	13.4	24.8

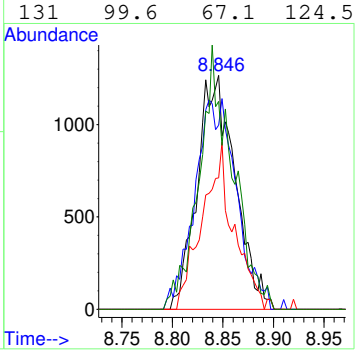


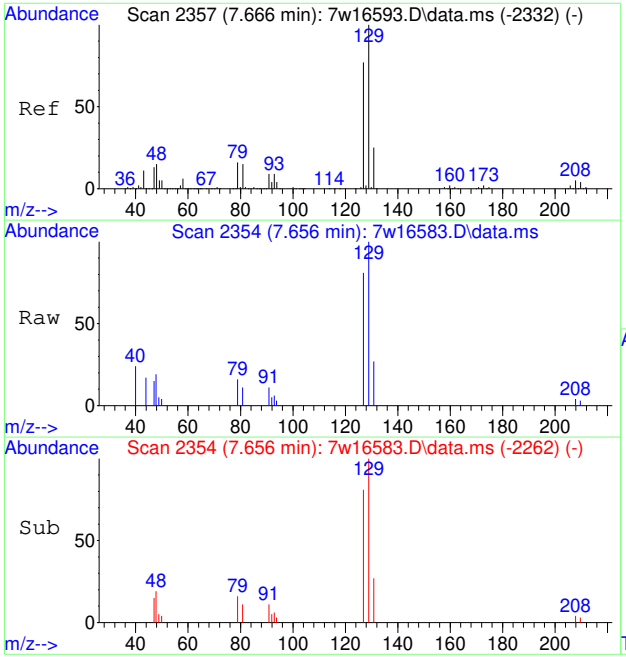


#72
TETRACHLOROETHENE
Concen: 0.19 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:164 Resp: 3315

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.7	129.5
168	59.1	43.4	80.6
131	99.6	67.1	124.5

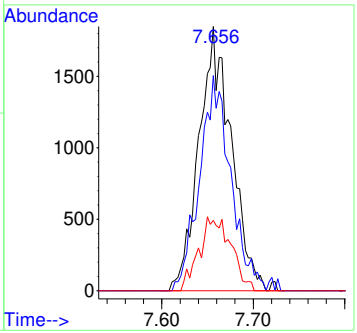


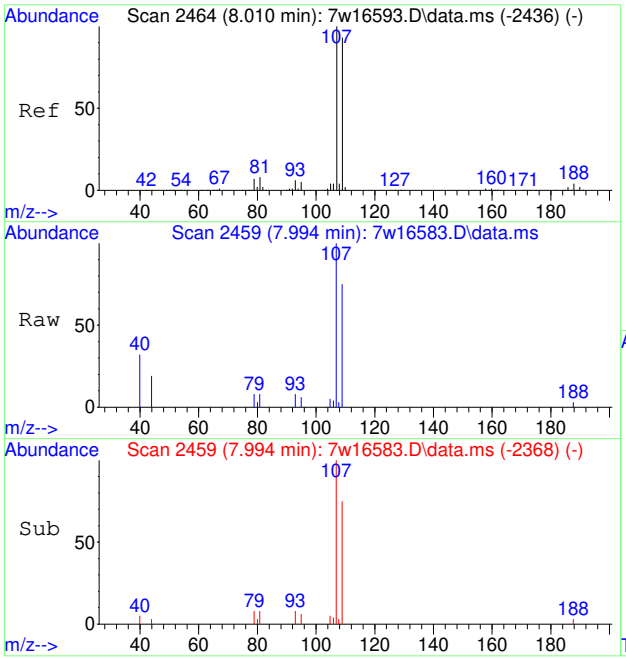


#73
DIBROMOCHLOROMETHANE
Concen: 0.15 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:129 Resp: 4563

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	27.4	16.9	31.3

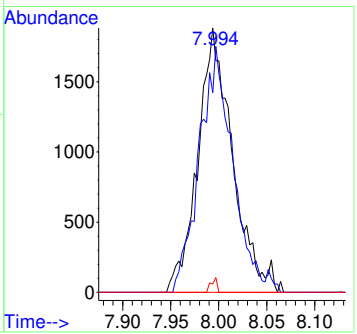


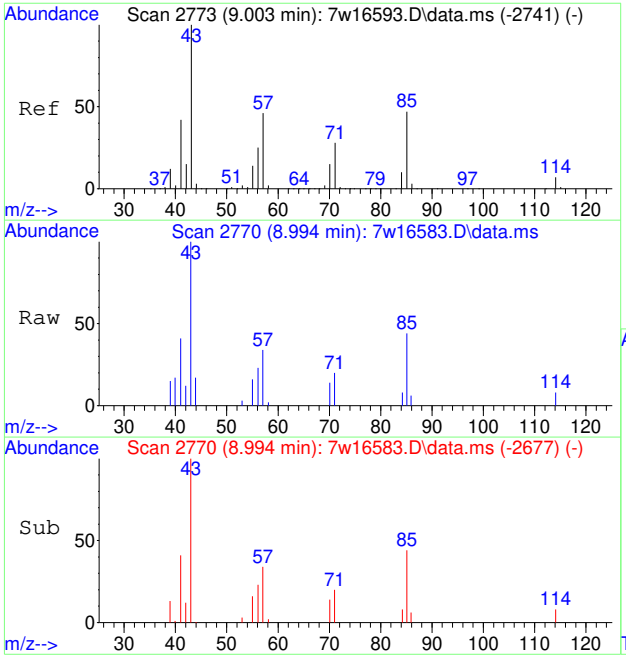


#74
1,2-DIBROMOETHANE
Concen: 0.19 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:107 Resp: 4734

Ion	Ratio	Lower	Upper
107	100		
109	91.0	65.7	122.1
188	0.0	2.4	4.4#

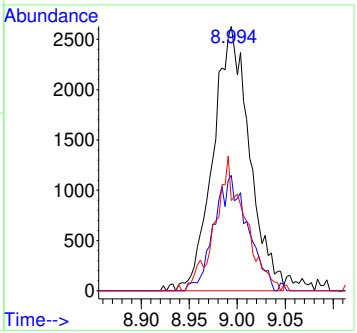


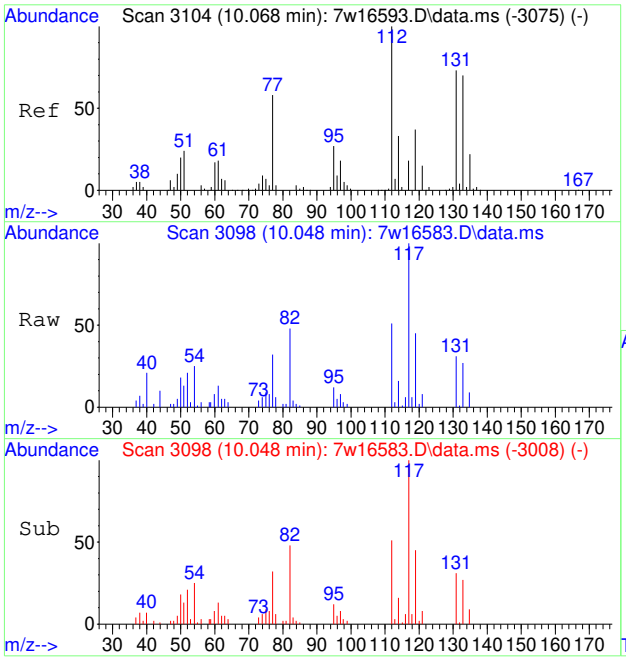


#75
OCTANE
Concen: 0.19 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 6956

Ion	Ratio	Lower	Upper
43	100		
85	40.7	36.5	67.9
57	41.8	27.6	51.2

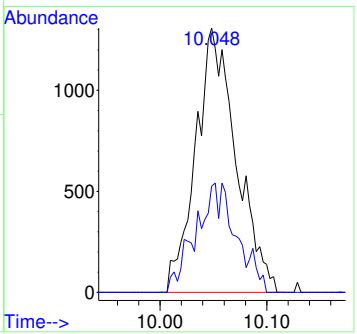


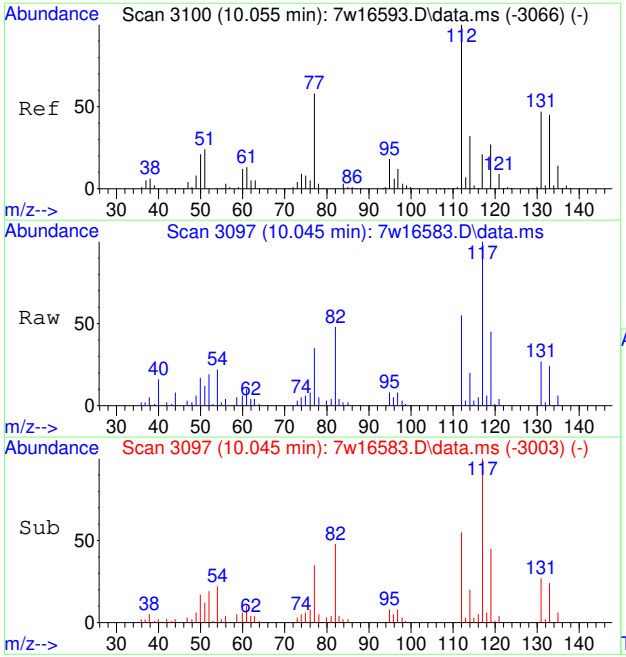


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.16 PPBV
RT: 10.048 min Scan# 3098
Delta R.T. -0.009 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:131 Resp: 3463

Ion	Ratio	Lower	Upper
131	100		
95	41.4	23.7	43.9

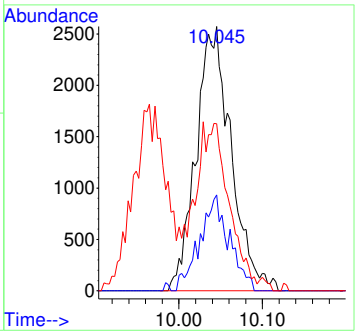


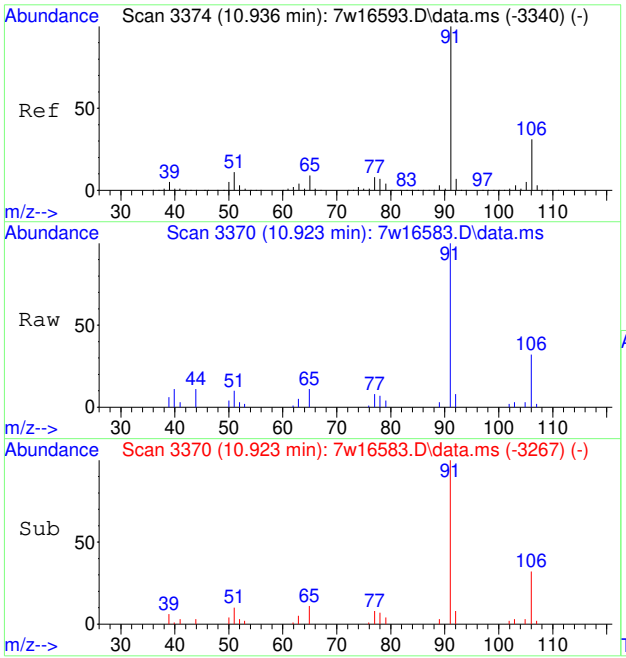


#78
CHLOROBENZENE
Concen: 0.19 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:112 Resp: 7506

Ion	Ratio	Lower	Upper
112	100		
114	30.5	22.9	42.5
77	62.6	34.4	63.8

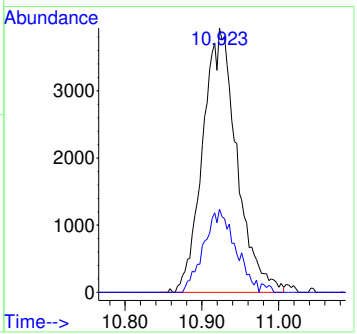


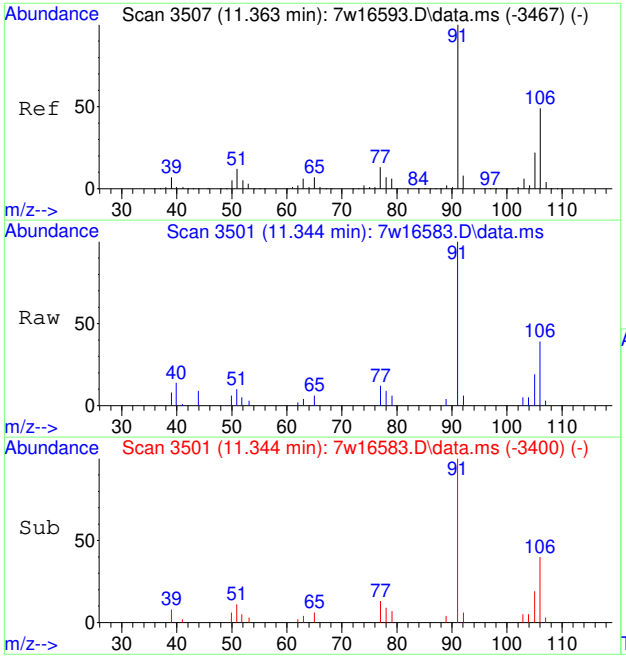


#79
ETHYLBENZENE
Concen: 0.19 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 12148

Ion	Ratio	Lower	Upper
91	100		
106	29.0	2.8	62.8

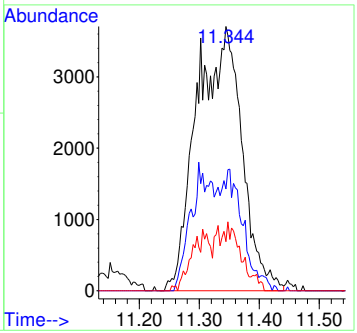


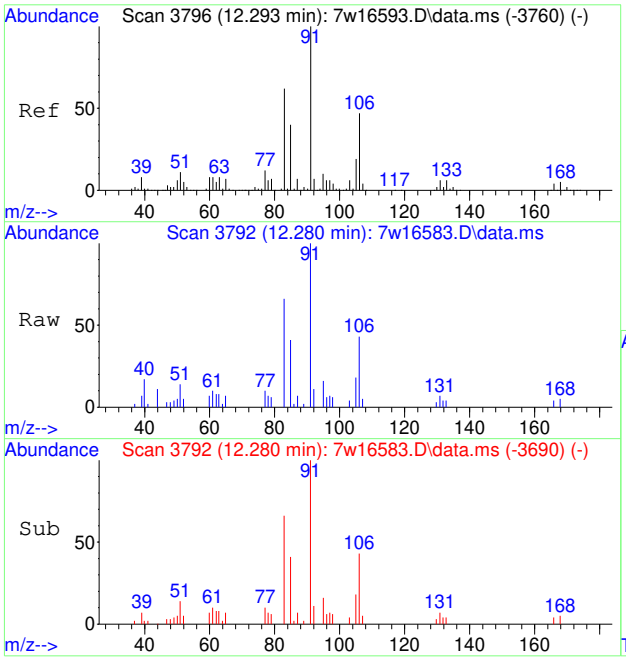


#80
M,P-XYLENE
Concen: 0.37 PPBV
RT: 11.344 min Scan# 3501
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 19306

Ion	Ratio	Lower	Upper
91	100		
106	19.5	0.0	58.7
105	14.1	0.0	43.2

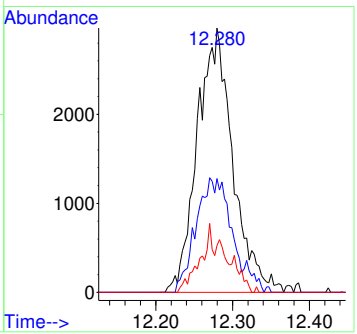


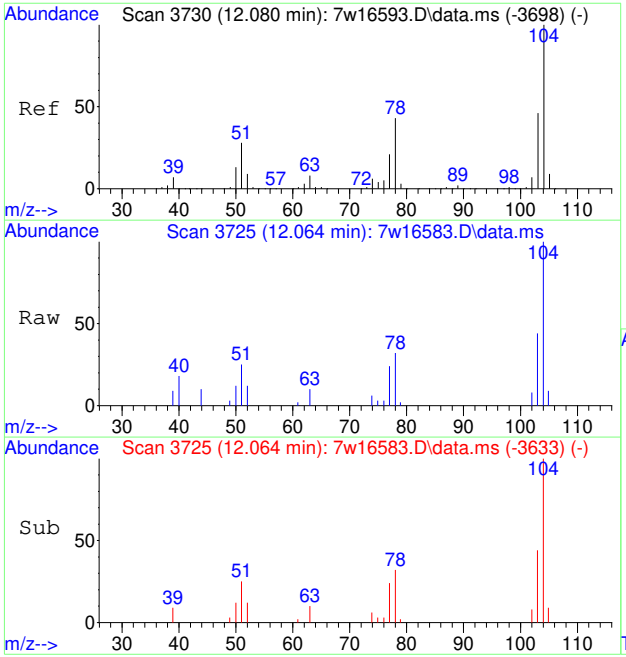


#81
O-XYLENE
Concen: 0.19 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9544

Ion	Ratio	Lower	Upper
91	100		
106	43.0	34.1	63.3
105	17.7	14.6	27.2

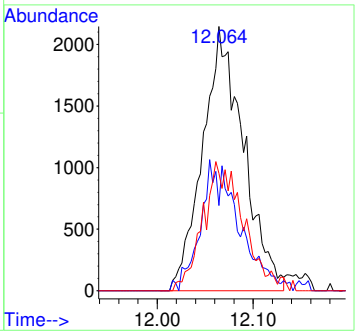


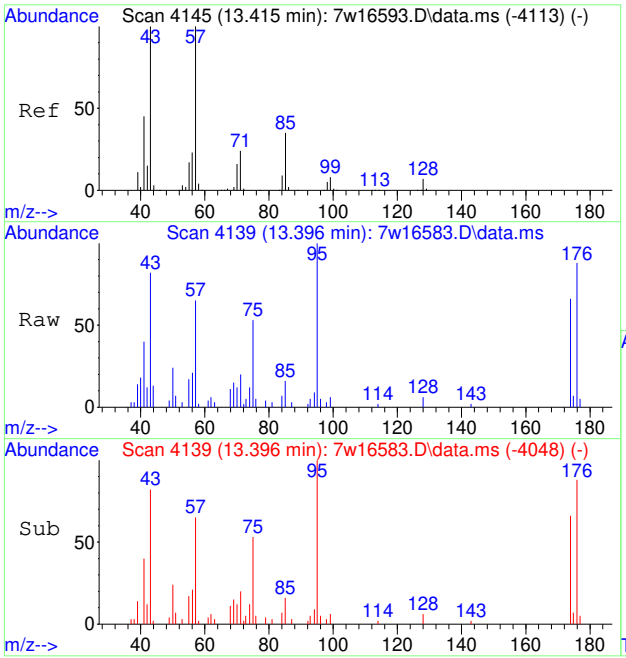


#82
STYRENE
Concen: 0.16 PPBV
RT: 12.064 min Scan# 3725
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:104 Resp: 6329

Ion	Ratio	Lower	Upper
104	100		
78	47.9	25.3	46.9#
103	48.8	33.2	61.7

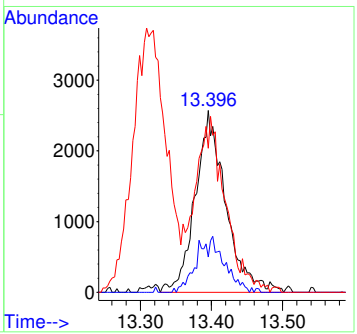


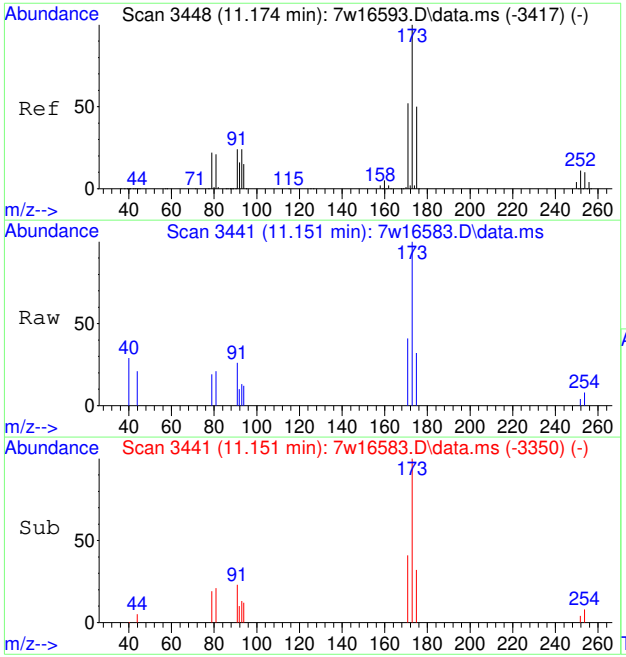


#83
NONANE
Concen: 0.20 PPBV
RT: 13.396 min Scan# 4139
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 7642

Ion	Ratio	Lower	Upper
43	100		
85	28.4	27.6	51.2
57	91.2	56.4	104.7

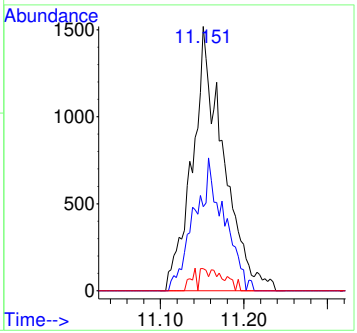


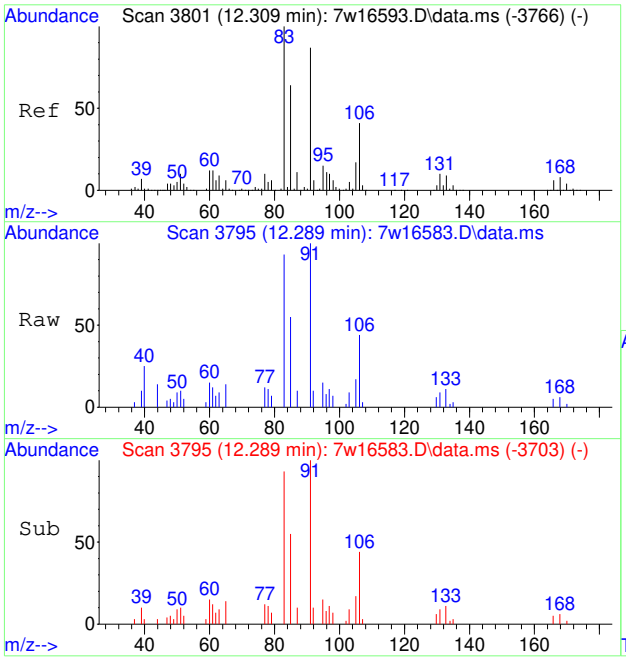


#84
BROMOFORM
Concen: 0.15 PPBV
RT: 11.151 min Scan# 3441
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:173 Resp: 3912

Ion	Ratio	Lower	Upper
173	100		
175	48.4	33.0	61.4
254	7.9	5.9	10.9

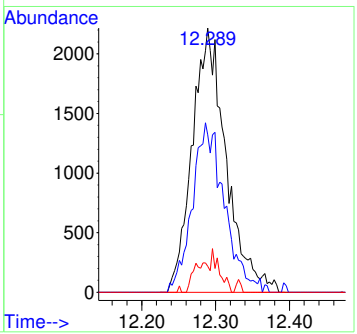


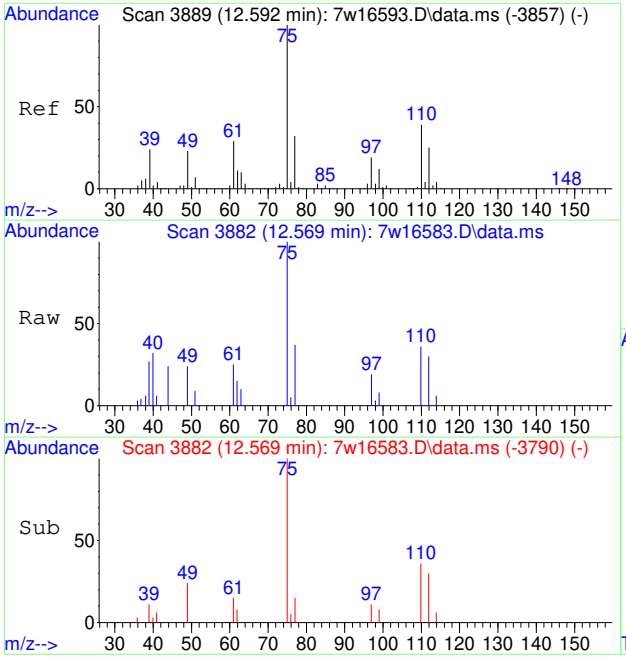


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.19 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 7071

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	9.9	8.0	14.8

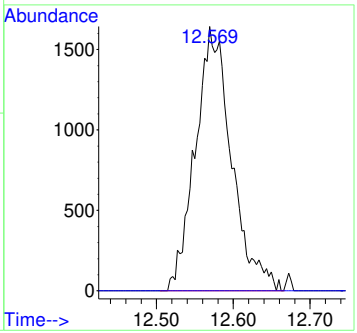


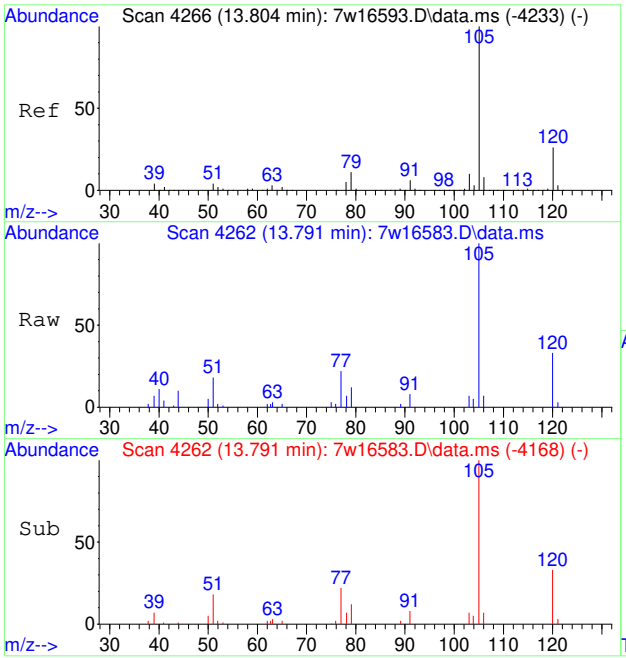


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.19 PPBV
RT: 12.569 min Scan# 3882
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 5376

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

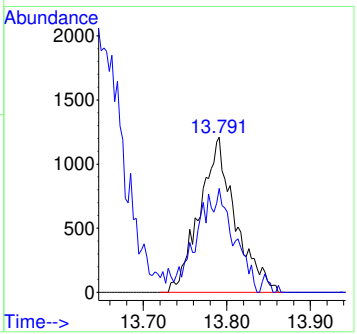


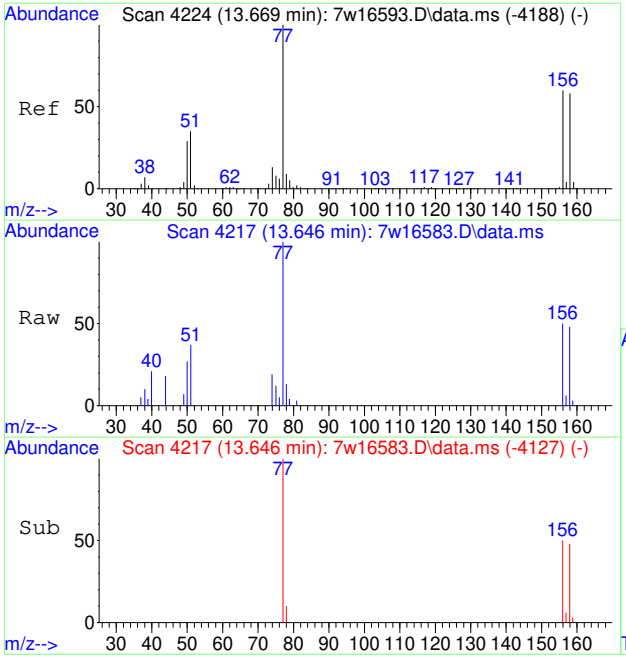


#88
ISOPROPYLBENZENE
Concen: 0.19 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3578

Ion	Ratio	Lower	Upper
120	100		
77	73.3	36.0	67.0#

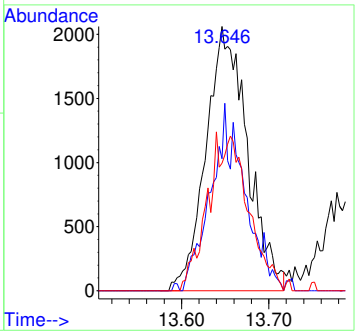


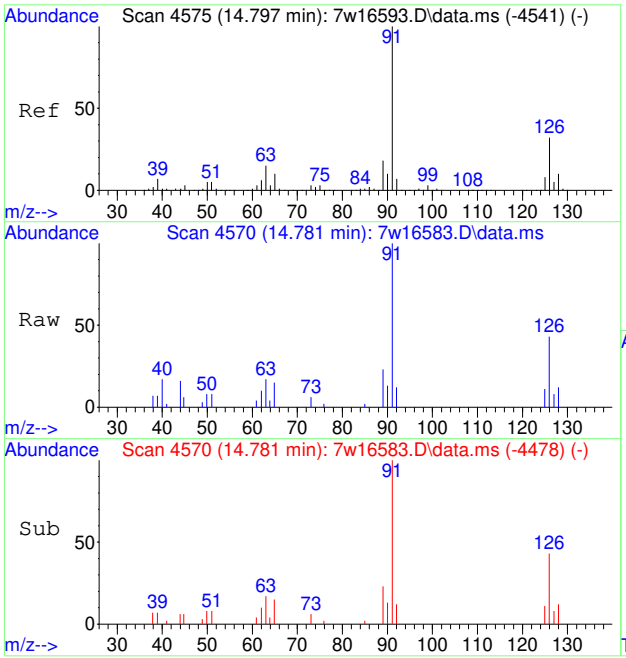


#89
BROMOBENZENE
Concen: 0.19 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 77 Resp: 6796

Ion	Ratio	Lower	Upper
77	100		
156	59.2	57.9	107.5
158	58.4	55.7	103.5

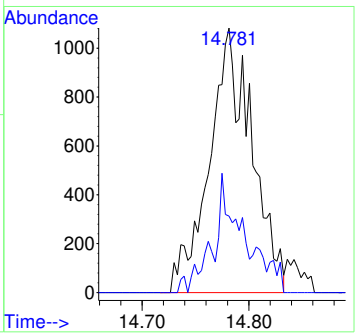


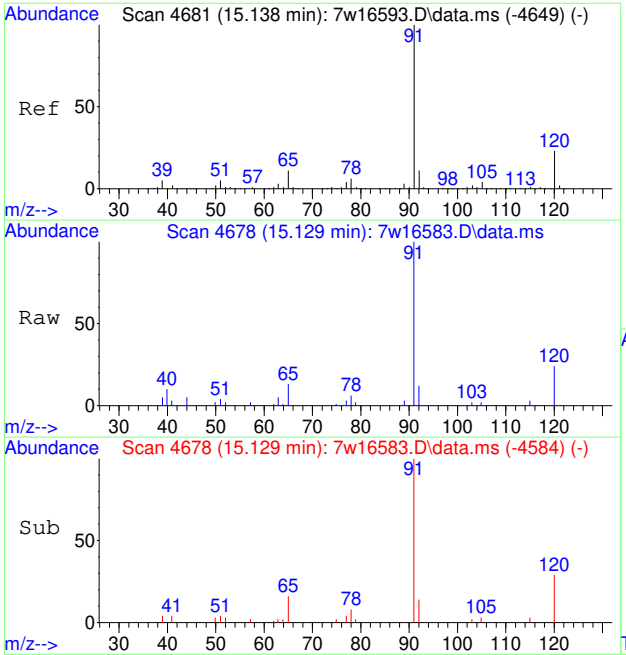


#90
2-CHLOROTOLUENE
Concen: 0.16 PPBV
RT: 14.781 min Scan# 4570
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:126 Resp: 2989

Ion	Ratio	Lower	Upper
126	100		
128	33.2	22.7	42.1

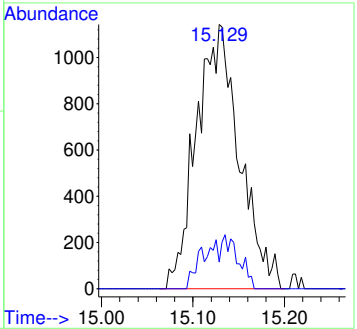


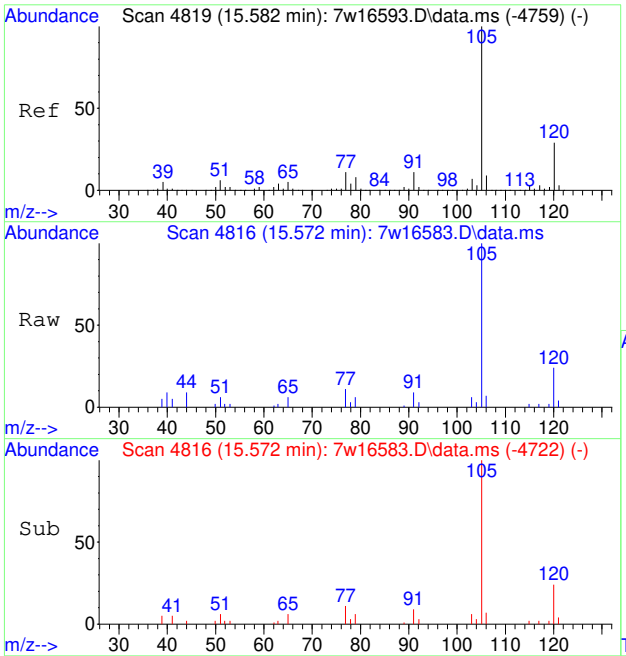


#91
N-PROPYLBENZENE
Concen: 0.18 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3735

Ion	Ratio	Lower	Upper
120	100		
105	15.7	10.6	19.6

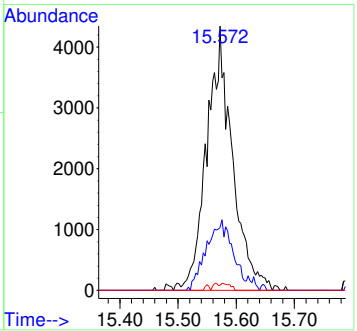


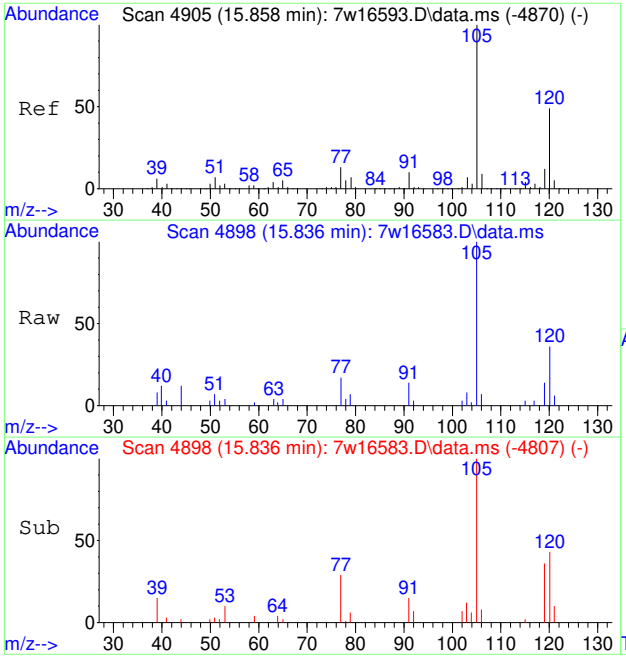


#92
4-ETHYLTOLUENE
Concen: 0.18 PPBV
RT: 15.572 min Scan# 4816
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 13365

Ion	Ratio	Lower	Upper
105	100		
120	28.9	21.8	40.4
119	1.9	1.7	3.1

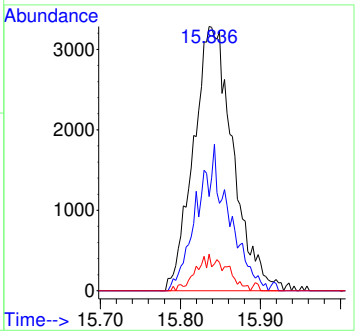


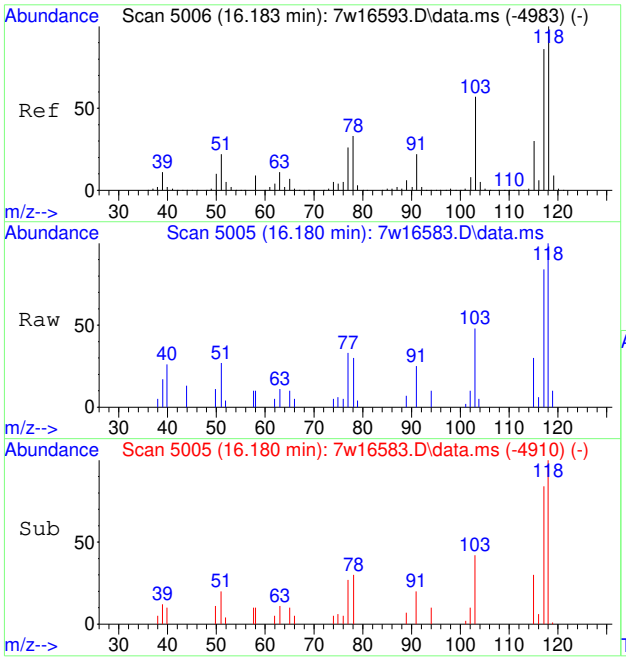


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 15.836 min Scan# 4898
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11247

Ion	Ratio	Lower	Upper
105	100		
120	45.0	37.2	69.2
91	6.7	7.5	13.9#

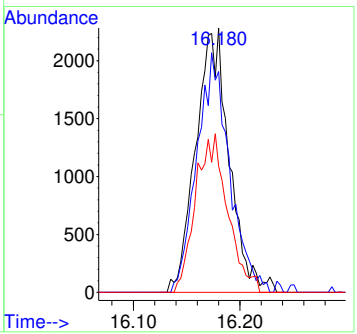


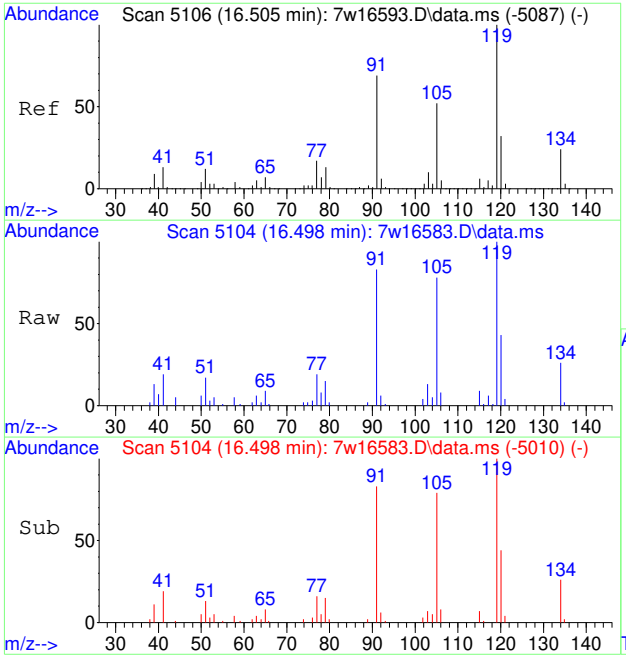


#94
ALPHA-METHYLSTYRENE
Concen: 0.15 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:118 Resp: 4973

Ion	Ratio	Lower	Upper
118	100		
117	88.5	59.9	111.3
103	57.2	36.2	67.2

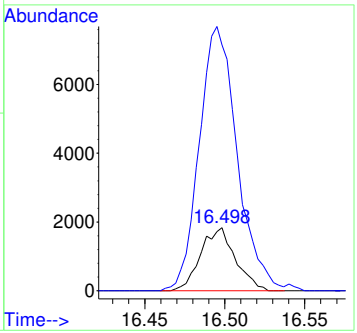


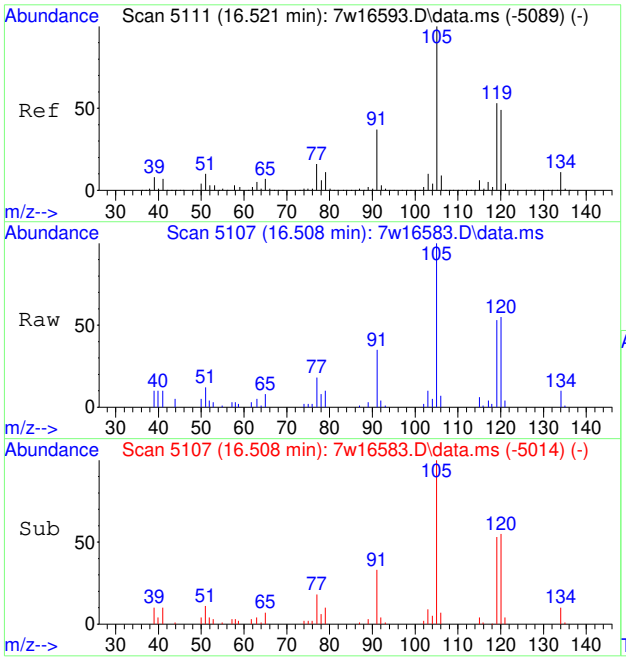


#95
TERT-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 2760

Ion	Ratio	Lower	Upper
134	100		
119	461.8	307.9	571.7

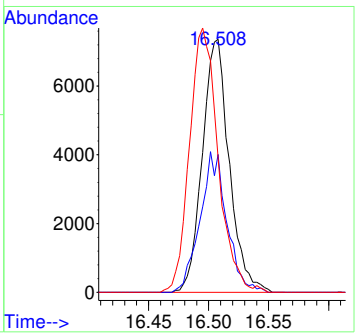


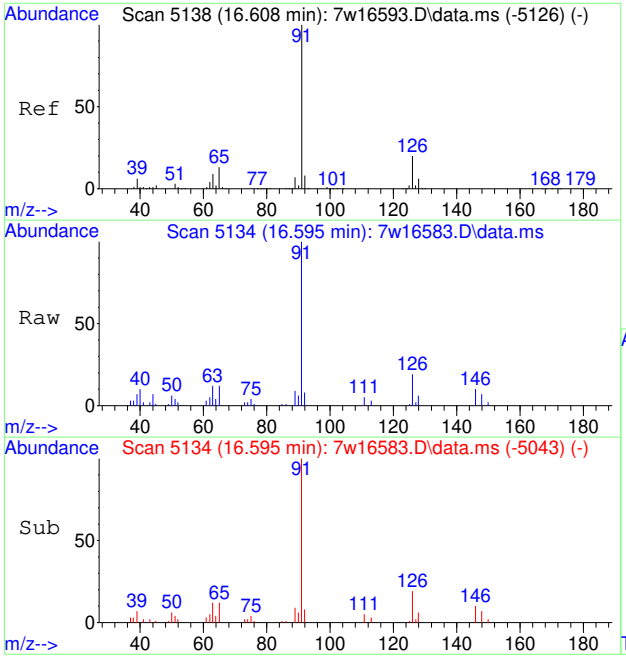


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11478

Ion	Ratio	Lower	Upper
105	100		
120	55.1	40.9	75.9
119	111.0	78.0	144.8

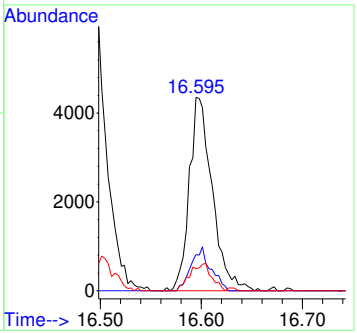


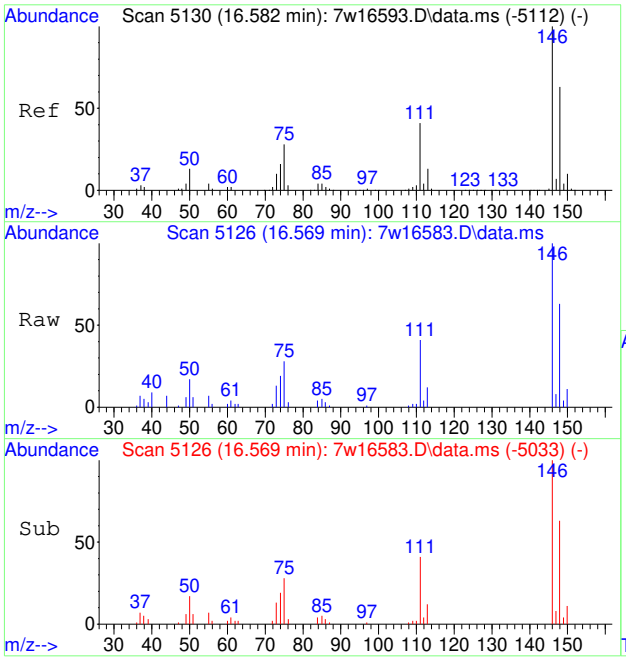


#97
BENZYL CHLORIDE
Concen: 0.13 PPBV
RT: 16.595 min Scan# 5134
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 6914

Ion	Ratio	Lower	Upper
91	100		
126	19.2	17.2	32.0
65	13.7	7.3	13.7#

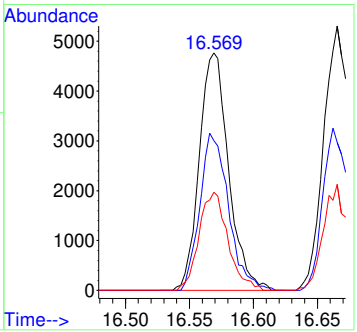


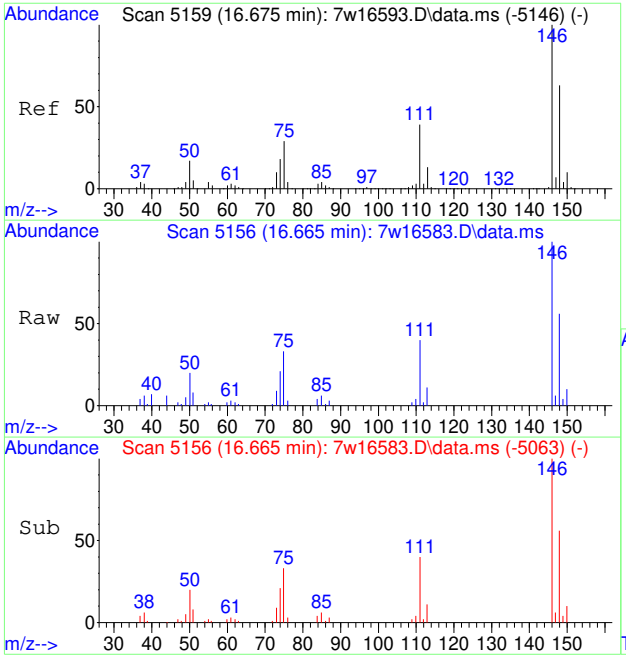


#98
M-DICHLOROBENZENE
Concen: 0.18 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7589

Ion	Ratio	Lower	Upper
146	100		
148	64.8	44.2	82.2
111	40.8	25.4	47.2

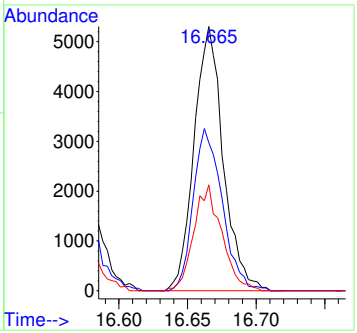


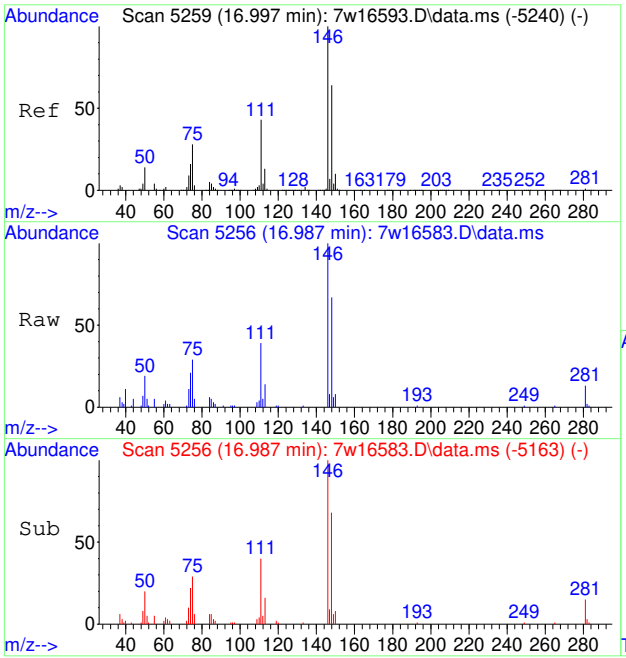


#99
P-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7856

Ion	Ratio	Lower	Upper
146	100		
148	61.0	44.7	82.9
111	38.6	24.8	46.1

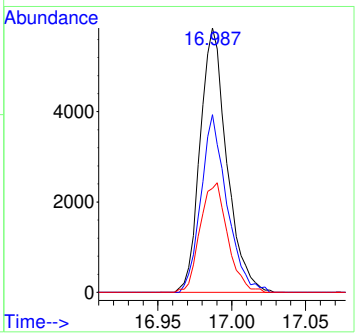


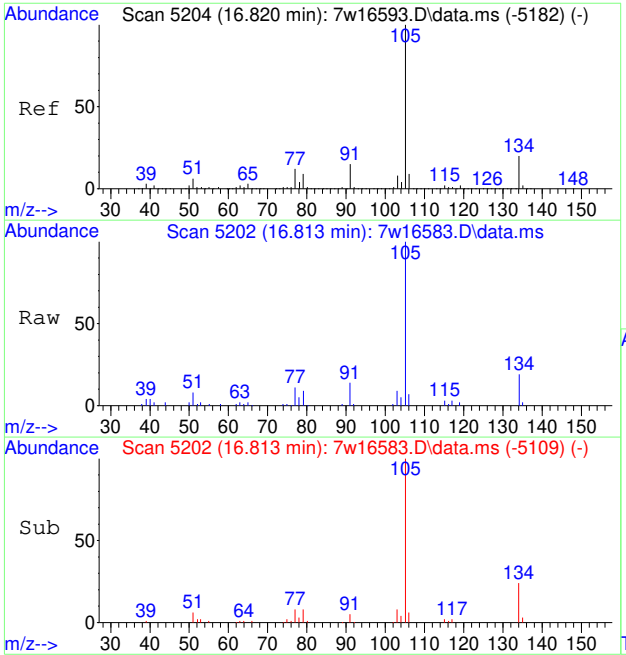


#100
O-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7325

Ion	Ratio	Lower	Upper
146	100		
148	65.4	44.6	82.8
111	42.7	26.9	50.1

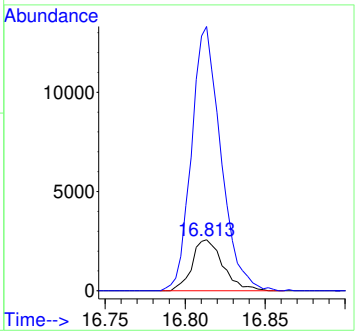


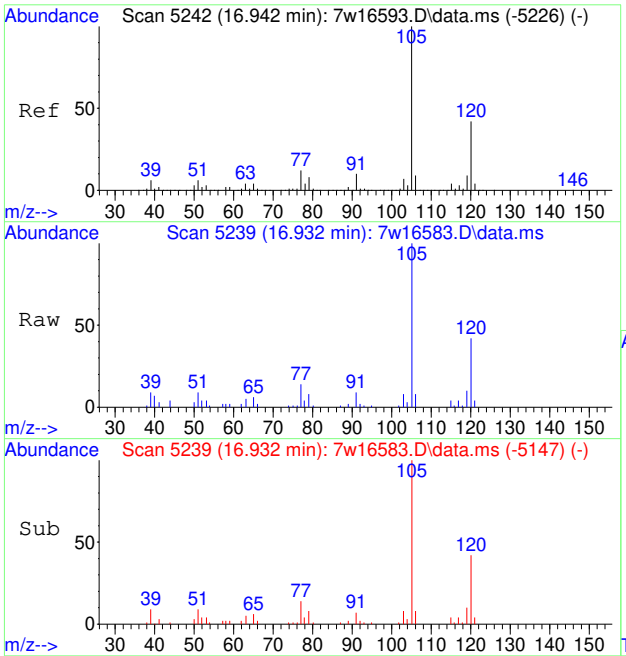


#101
SEC-BUTYLBENZENE
Concen: 0.19 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3439

Ion	Ratio	Lower	Upper
134	100		
105	494.3	314.4	584.0

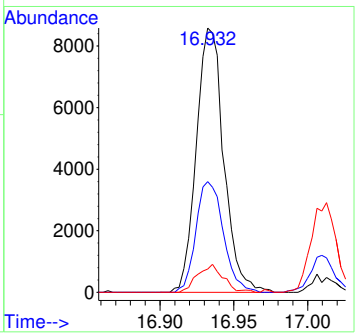


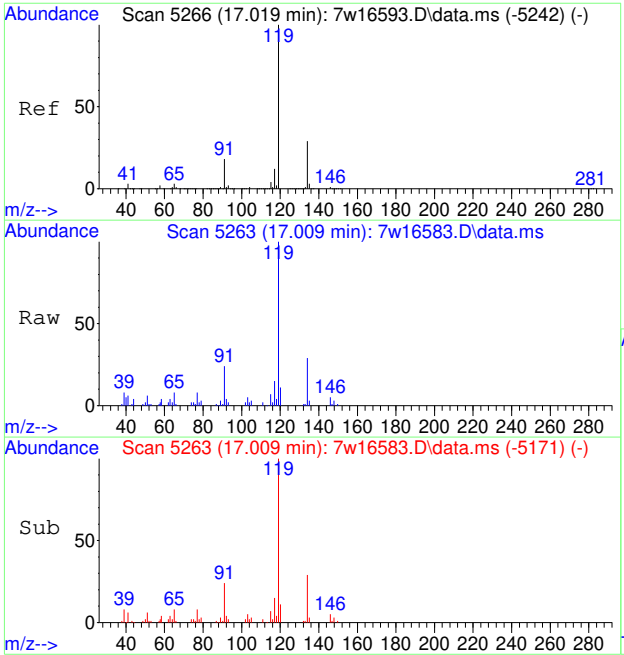


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11073

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

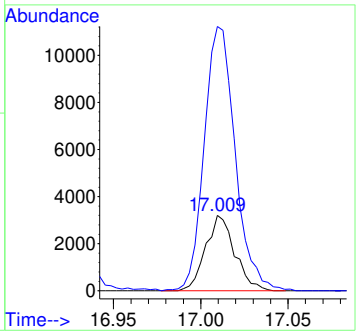


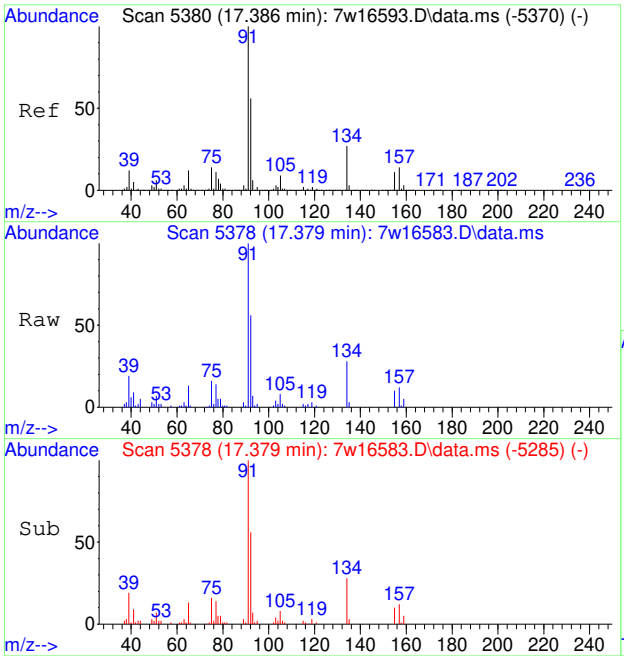


#103
P-ISOPROPYLTOLUENE
Concen: 0.18 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3722

Ion	Ratio	Lower	Upper
134	100		
119	372.9	253.7	471.3

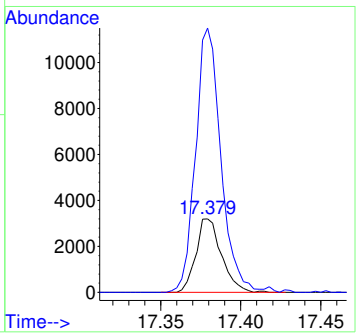


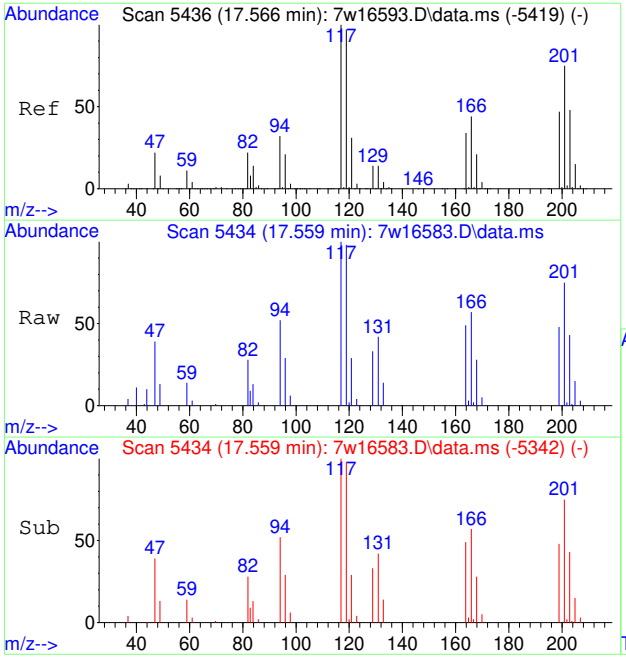


#104
N-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3557

Ion	Ratio	Lower	Upper
134	100		
91	358.3	231.1	429.1

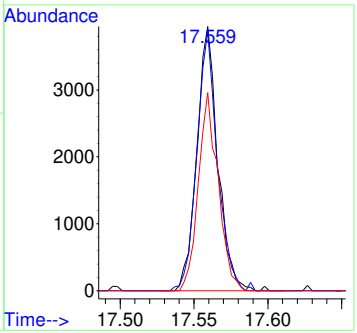


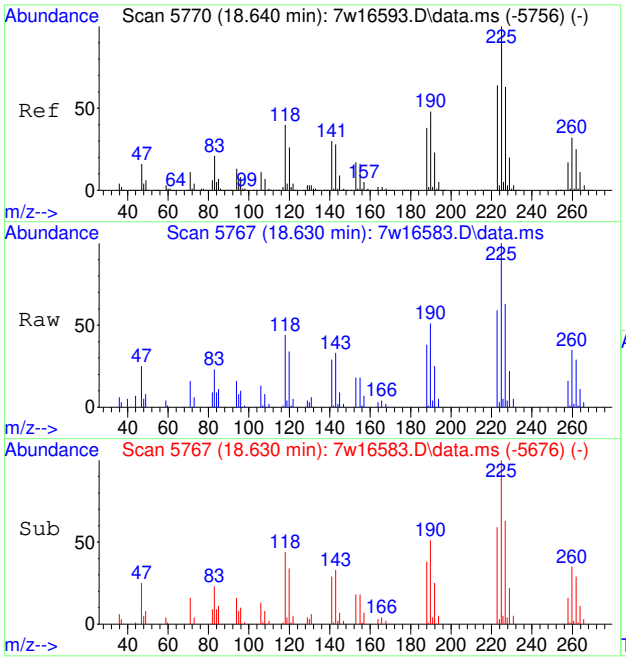


#105
HEXACHLOROETHANE
Concen: 0.16 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3887

Ion	Ratio	Lower	Upper
117	100		
119	96.9	68.3	126.9
201	70.9	45.9	85.3

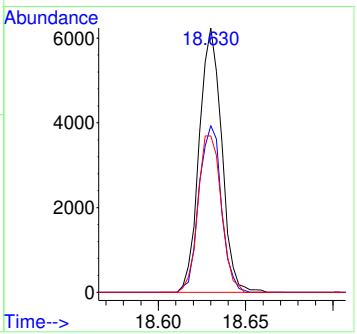


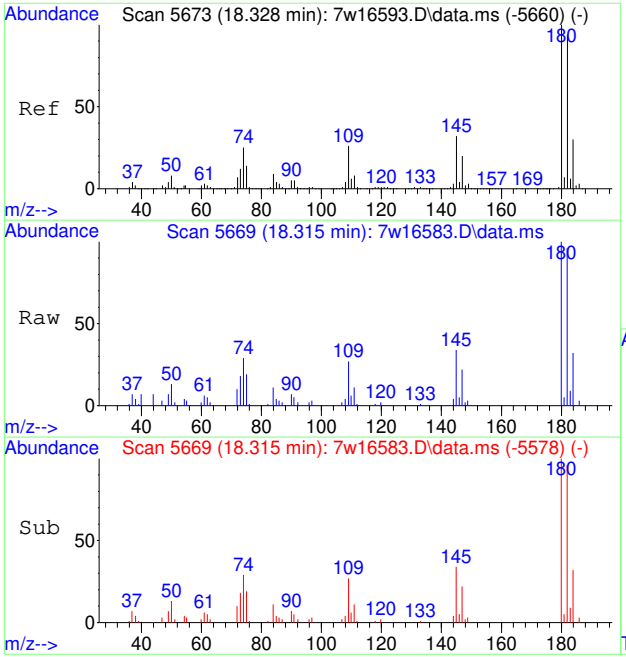


#106
HEXACHLOROBUTADIENE
Concen: 0.21 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:225 Resp: 5583

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.4	82.5
223	61.5	44.7	83.1

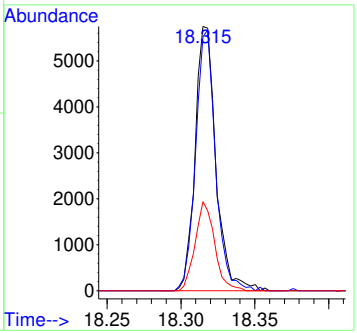


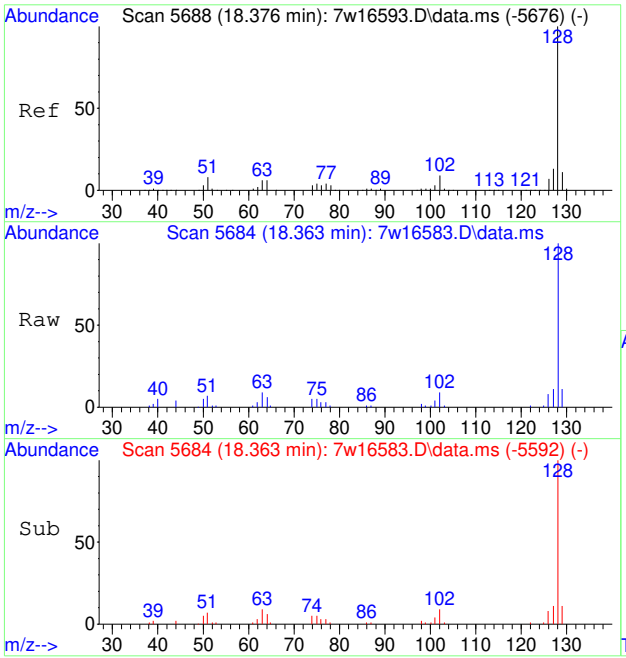


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.16 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:180 Resp: 5618

Ion	Ratio	Lower	Upper
180	100		
182	94.3	66.8	124.0
145	31.6	23.1	42.9

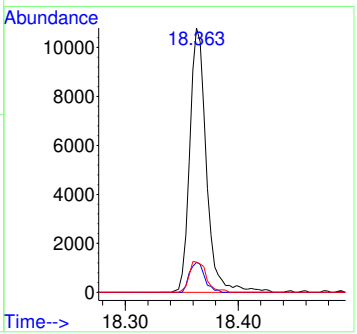


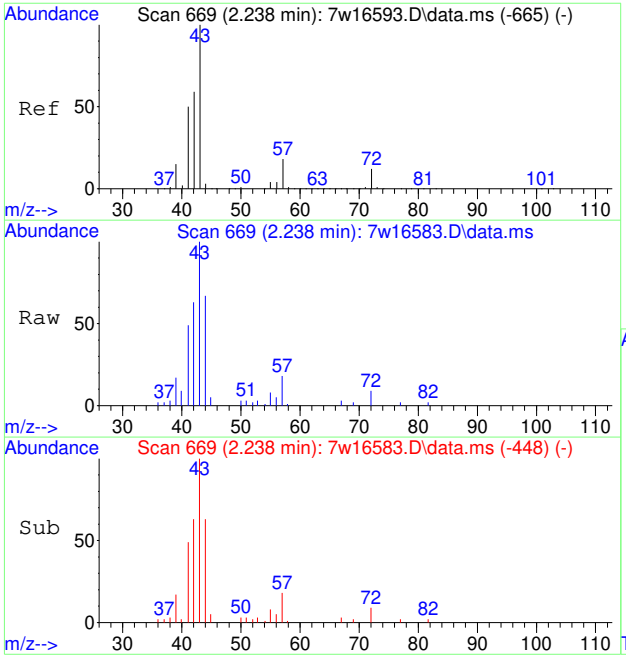


#108
NAPHTHALENE
Concen: 0.14 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:128 Resp: 11029

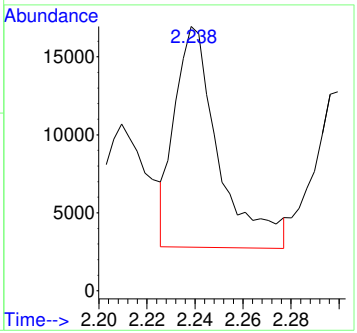
Ion	Ratio	Lower	Upper
128	100		
129	10.4	7.3	13.7
127	12.1	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.28 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:TIC Resp: 17908



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16583.D
Injection Time: 08/07/25 08:36

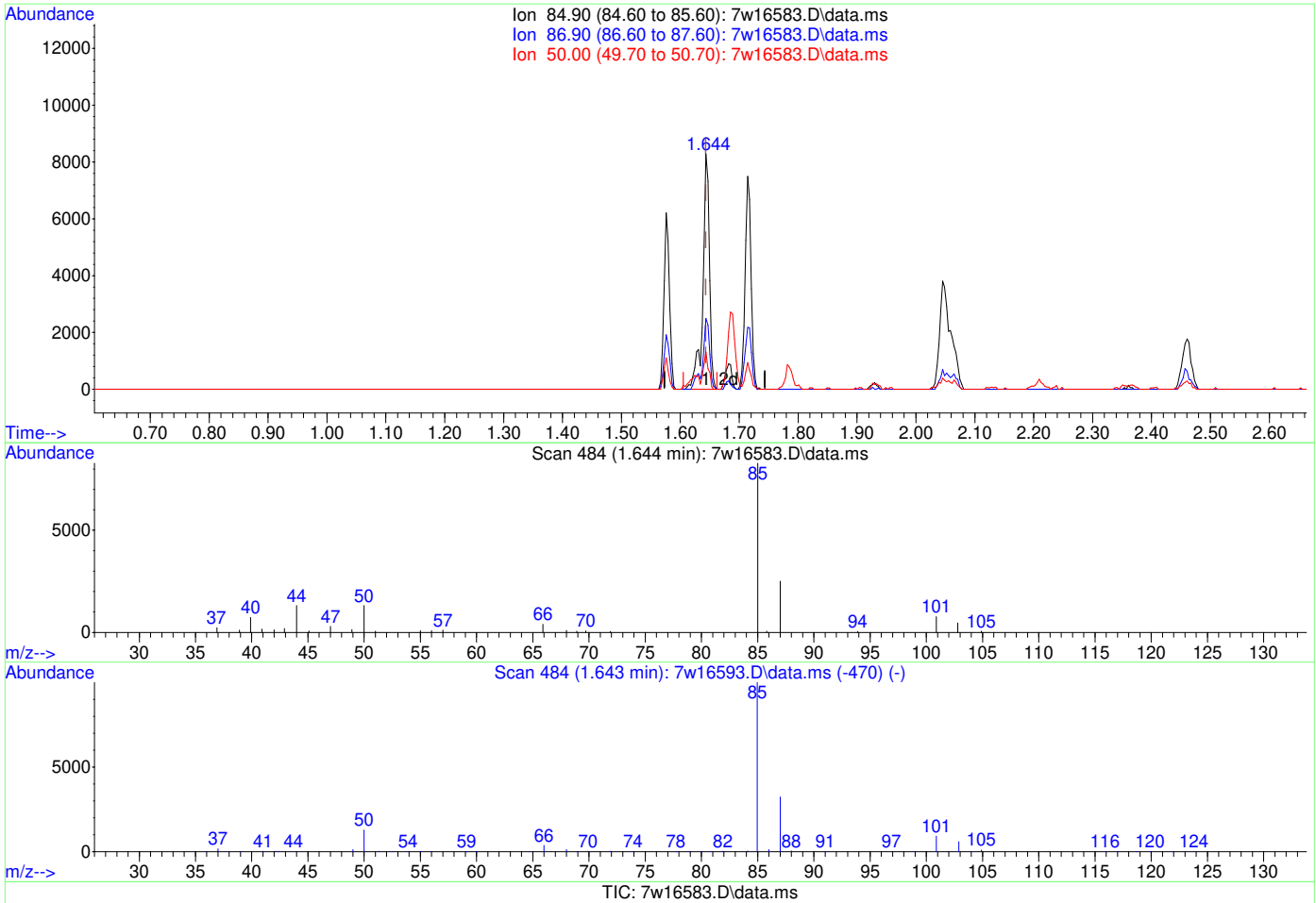
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.19PPBV

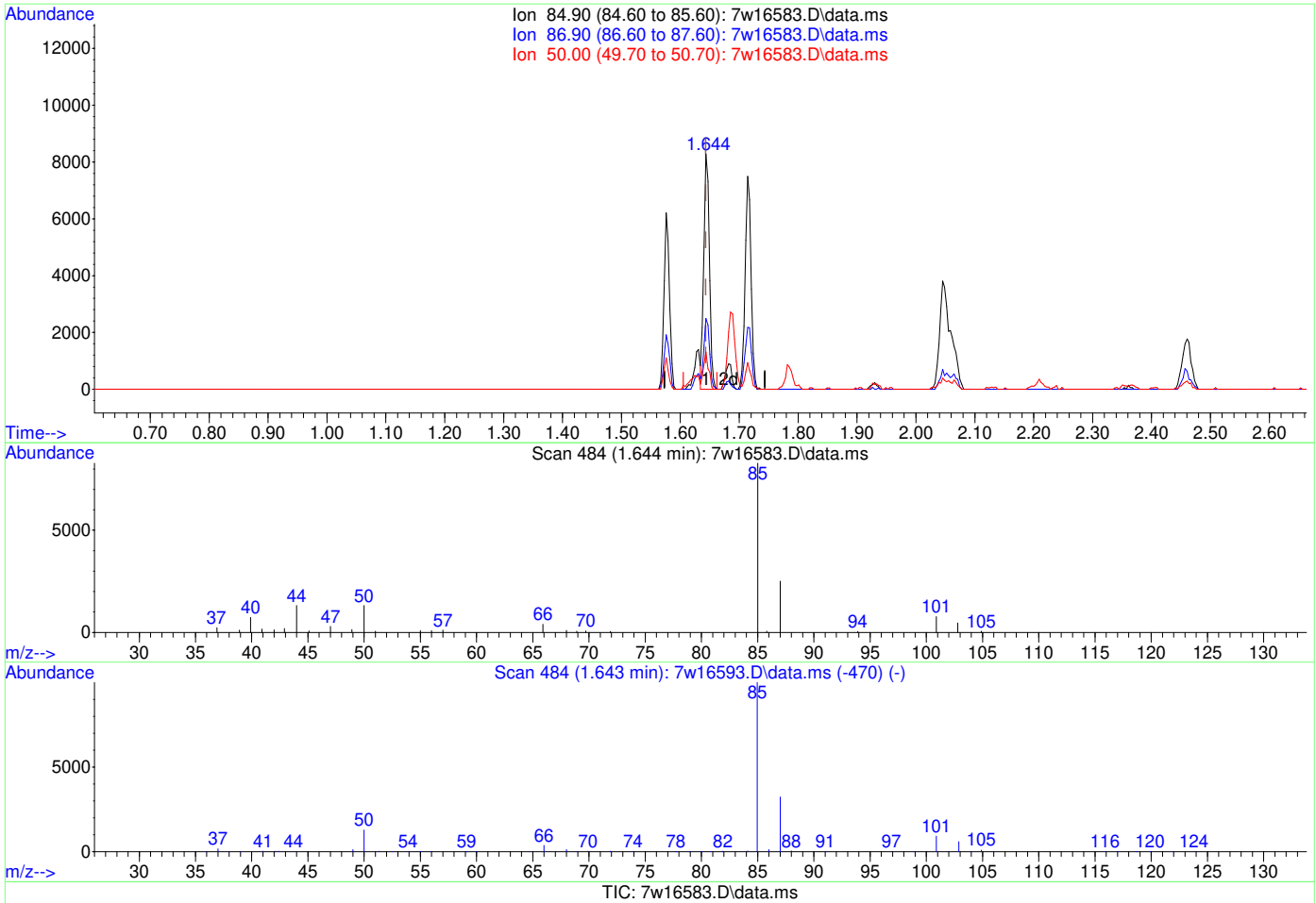
response 6418

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	31.93
50.00	17.30	21.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.16PPBV m

response 5428

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	37.75
50.00	17.30	25.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114041	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	577981	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	540711	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114041	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	422778	9.61	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	6776	0.46	PPBV		84
3) FREON 152A	1.608	65	3692	0.53	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	1804	0.56	PPBV		94
5) CHLOROTRIFLUOROETHENE	1.628	116	7994	0.51	PPBV		73
6) DICHLORODIFLUOROMETHANE	1.644	85	14890m	0.44	PPBV		
7) PROPYLENE	1.628	41	4672	0.52	PPBV		94
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	13815	0.54	PPBV		96
9) FREON 114	1.714	85	15094	0.51	PPBV		84
10) CHLOROMETHANE	1.685	52	1982	0.52	PPBV		98
11) VINYL CHLORIDE	1.747	62	7044	0.49	PPBV		97
12) 1,3-BUTADIENE	1.785	54	5673	0.51	PPBV	#	73
13) N-BUTANE	1.798	43	10254	0.54	PPBV	#	83
14) BROMOMETHANE	1.856	94	5311	0.49	PPBV		94
15) CHLOROETHANE	1.904	64	3739	0.50	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	13156	0.49	PPBV		97
17) ACETONITRILE	1.997	41	6126	0.52	PPBV		93
18) ACROLEIN	2.033	56	3496	0.57	PPBV		99
19) FREON 123	2.049	83	14538	0.53	PPBV		97
20) FREON 123A	2.065	117	8271	0.51	PPBV	#	48
21) TRICHLOROFLUOROMETHANE	2.129	101	16036	0.51	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	14702	0.56	PPBV		89
23) ACETONE	2.075	58	4031	0.56	PPBV		67
24) PENTANE	2.242	42	7252	0.54	PPBV	#	86
25) IODOMETHANE	2.300	142	15067	0.52	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.329	96	6087	0.52	PPBV	#	55
27) CARBON DISULFIDE	2.460	76	17823	0.53	PPBV		96
28) ETHANOL	1.936	45	3995	0.60	PPBV	#	94
29) BROMOETHENE	2.004	106	5459	0.48	PPBV		98
30) ACRYLONITRILE	2.210	52	5767	0.58	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	5842	0.53	PPBV	#	74
32) 3-CHLOROPROPENE	2.406	76	3137	0.50	PPBV	#	72
33) FREON 113	2.460	151	9645	0.53	PPBV		86
34) TRANS-1,2-DICHLOROETHENE	2.689	96	6513	0.51	PPBV	#	61
35) TERTIARY BUTYL ALCOHOL	2.345	59	15020	0.47	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	18863	0.52	PPBV	#	90
37) TETRAHYDROFURAN	3.483	72	2906	0.48	PPBV		79
38) HEXANE	3.242	57	12572	0.52	PPBV		83
39) VINYL ACETATE	2.827	86	1605	0.45	PPBV	#	82
40) 1,1-DICHLOROETHANE	2.759	63	12723	0.50	PPBV		98
41) METHYL ETHYL KETONE	2.927	72	3223	0.49	PPBV	#	79
42) CIS-1,2-DICHLOROETHENE	3.116	96	6837	0.51	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	3577	0.51	PPBV		100
44) ETHYL ACETATE	3.255	61	2292	0.47	PPBV		85
45) METHYL ACRYLATE	3.238	55	15089	0.50	PPBV	#	98
46) CHLOROFORM	3.258	83	14039	0.53	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	14638	0.53	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	13952	0.51	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	13931	0.47	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	10566	0.51	PPBV		99
51)	BENZENE	4.126	78	19953	0.51	PPBV		90
53)	CYCLOHEXANE	4.332	84	9049	0.51	PPBV	#	72
54)	2,3-DIMETHYLPENTANE	4.582	71	4648	0.51	PPBV		64
55)	TRICHLOROETHENE	5.017	95	9226	0.49	PPBV		85
56)	1,2-DICHLOROPROPANE	4.782	63	8549	0.51	PPBV		91
57)	DIBROMOMETHANE	4.743	174	7819	0.51	PPBV		91
58)	ETHYL ACRYLATE	4.904	55	18149	0.48	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.959	83	14412	0.46	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	40435	0.51	PPBV	#	93
61)	1,4-DIOXANE	5.062	88	4245	0.45	PPBV	#	72
62)	HEPTANE	5.418	43	13738	0.52	PPBV		88
63)	METHYL METHACRYLATE	5.322	69	7482	0.49	PPBV		87
64)	METHYL ISOBUTYL KETONE	6.049	58	7119	0.46	PPBV		87
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	11946	0.45	PPBV		99
66)	TOLUENE	7.126	91	24682	0.51	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	12380	0.50	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	10011	0.41	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	7248	0.51	PPBV		92
70)	2-HEXANONE	7.708	58	9642	0.47	PPBV	#	81
71)	ETHYL METHACRYLATE	7.833	69	12576	0.48	PPBV		91
72)	TETRACHLOROETHENE	8.836	164	9191	0.52	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.663	129	12752	0.43	PPBV		97
74)	1,2-DIBROMOETHANE	7.994	107	13213	0.52	PPBV		99
75)	OCTANE	8.994	43	18440	0.51	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.052	131	9977	0.47	PPBV		90
78)	CHLOROBENZENE	10.045	112	20418	0.52	PPBV		90
79)	ETHYLBENZENE	10.917	91	33108	0.52	PPBV		96
80)	M,P-XYLENE	11.347	91	51511	1.00	PPBV		98
81)	O-XYLENE	12.273	91	26468	0.52	PPBV		97
82)	STYRENE	12.068	104	18750	0.48	PPBV		94
83)	NONANE	13.402	43	19802	0.51	PPBV		81
84)	BROMOFORM	11.155	173	10827	0.42	PPBV		95
85)	1,1,2,2-TETRACHLOROETHANE	12.286	83	18876	0.51	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.563	75	15262	0.53	PPBV	#	99
88)	ISOPROPYLBENZENE	13.791	120	9713	0.50	PPBV		80
89)	BROMOBENZENE	13.640	77	18640	0.51	PPBV		75
90)	2-CHLOROTOLUENE	14.778	126	8526	0.47	PPBV	#	74
91)	N-PROPYLBENZENE	15.129	120	9669	0.46	PPBV		98
92)	4-ETHYLTOLUENE	15.569	105	36862	0.48	PPBV	#	47
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	30468	0.48	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.174	118	14307	0.44	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	7825	0.51	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.502	105	31128	0.49	PPBV		98
97)	BENZYL CHLORIDE	16.598	91	19459	0.35	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	20646	0.48	PPBV		96
99)	P-DICHLOROBENZENE	16.662	146	20868	0.49	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	19799	0.50	PPBV		95
101)	SEC-BUTYLBENZENE	16.813	134	9482	0.51	PPBV		86
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	30663	0.49	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	10237	0.49	PPBV		94
104)	N-BUTYLBENZENE	17.376	134	9347	0.47	PPBV		76
105)	HEXACHLOROETHANE	17.559	117	10816	0.44	PPBV		97
106)	HEXACHLOROBUTADIENE	18.633	225	14662	0.54	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.318	180	15355	0.44	PPBV		97
108)	NAPHTHALENE	18.366	128	32243	0.40	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	43130	0.69	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

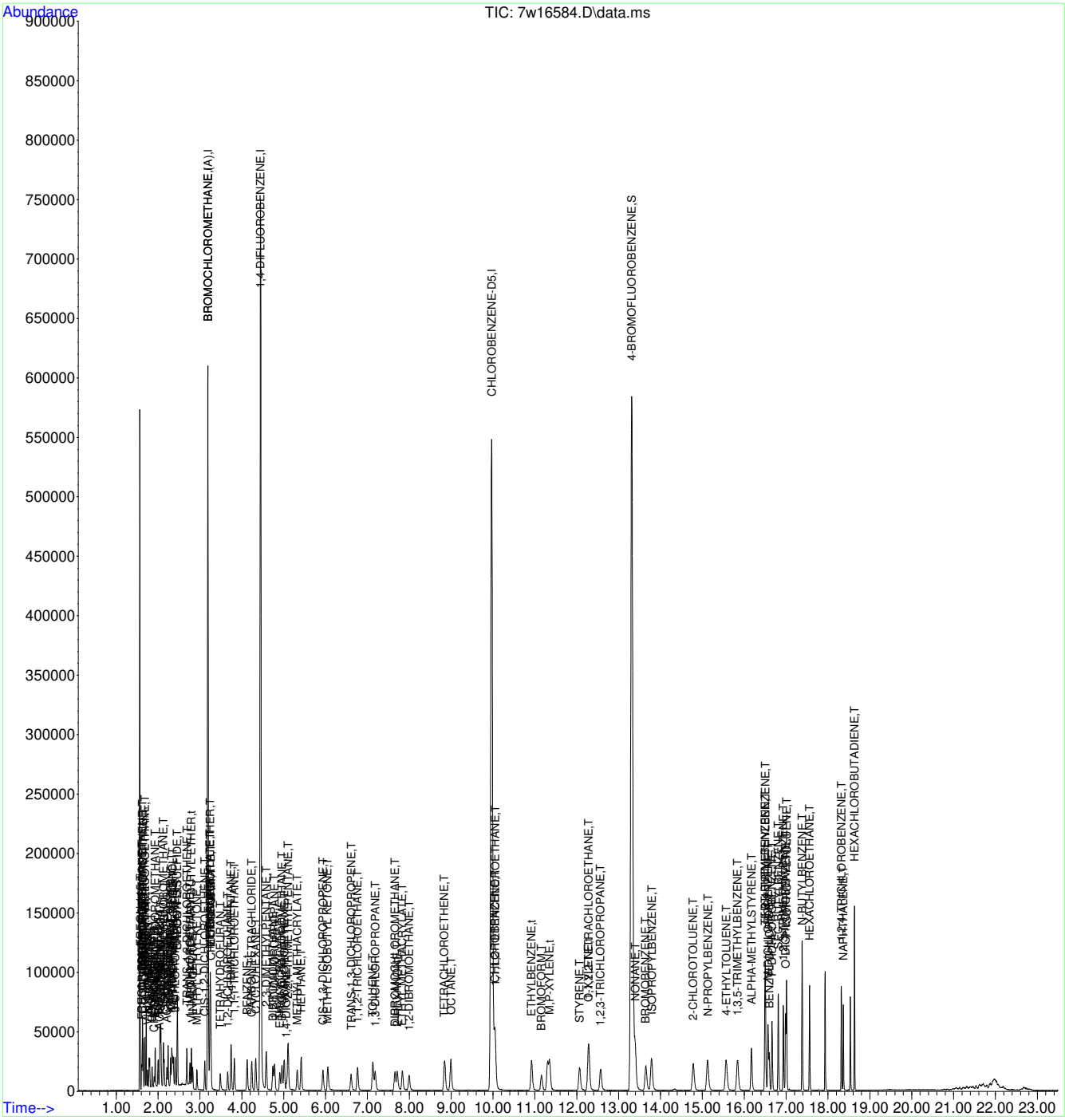
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

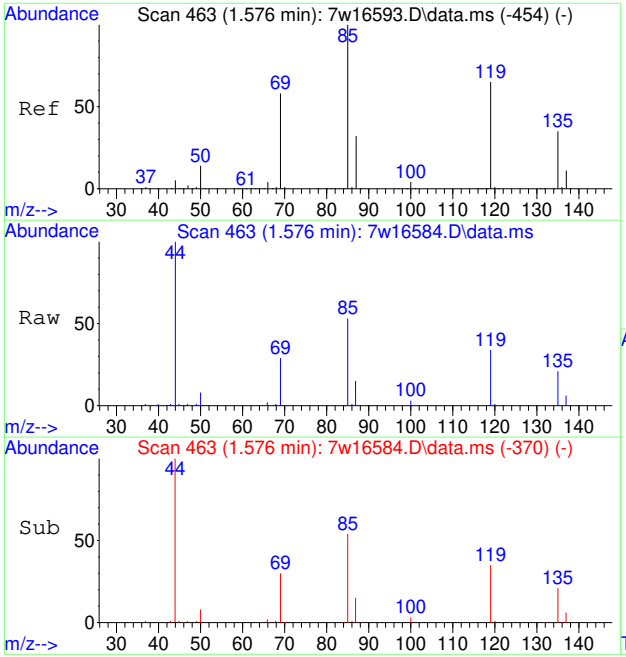
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

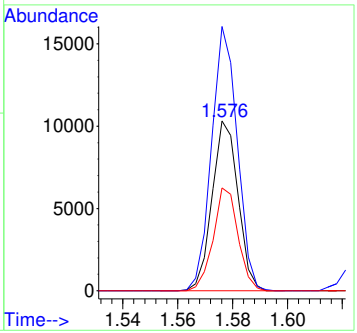


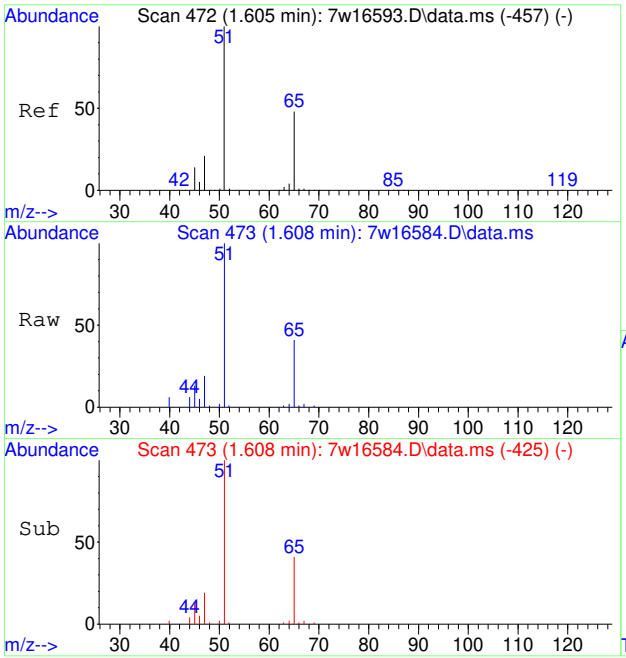


#2
FREON 115
Concen: 0.46 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:119 Resp: 6776

Ion	Ratio	Lower	Upper
119	100		
85	154.0	90.9	168.7
135	58.1	38.2	71.0

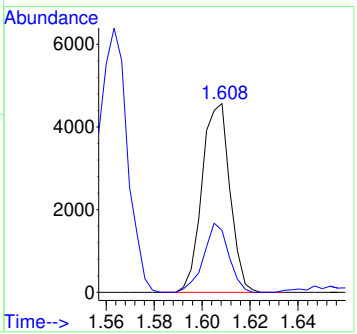


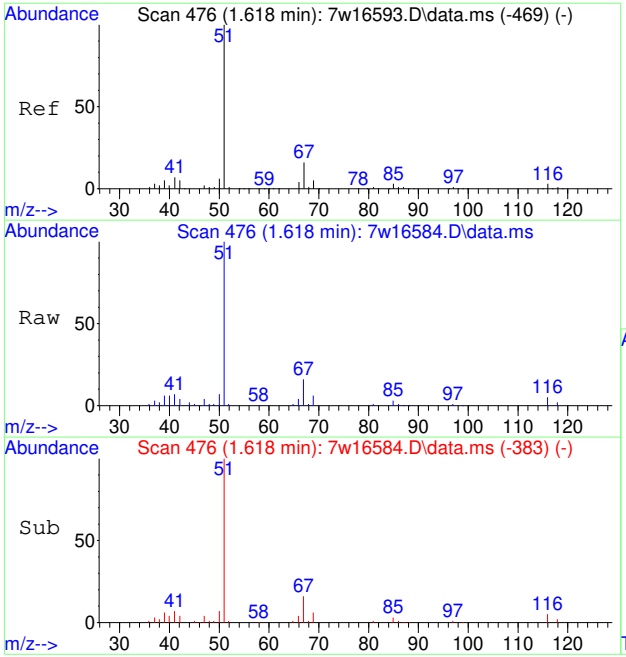


#3
FREON 152A
Concen: 0.53 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 3692

Ion	Ratio	Lower	Upper
65	100		
45	33.0	20.6	38.4

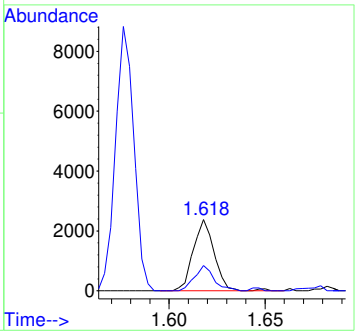


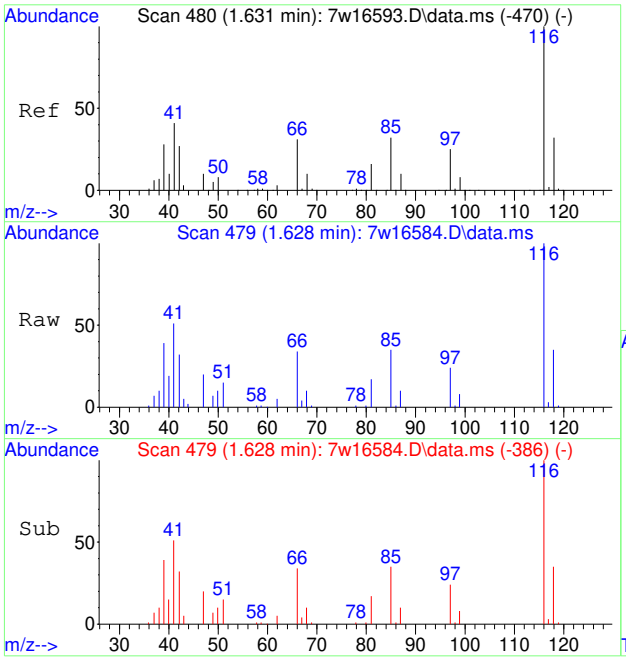


#4
CHLORODIFLUOROMETHANE
Concen: 0.56 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 1804

Ion	Ratio	Lower	Upper
67	100		
69	33.0	25.4	47.2

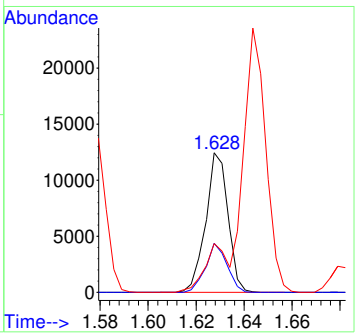


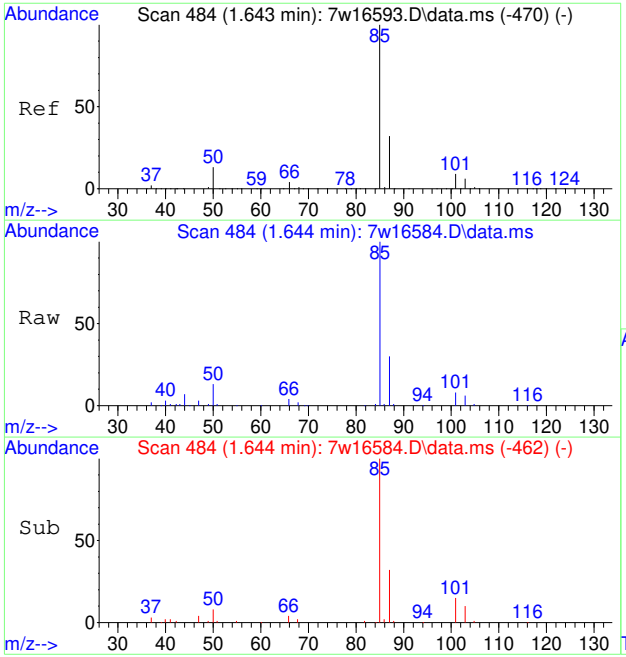


#5
CHLOROTRIFLUOROETHENE
Concen: 0.51 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:116 Resp: 7994

Ion	Ratio	Lower	Upper
116	100		
118	33.8	22.7	42.1
85	221.5	194.7	361.7

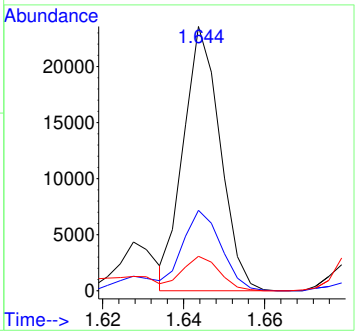


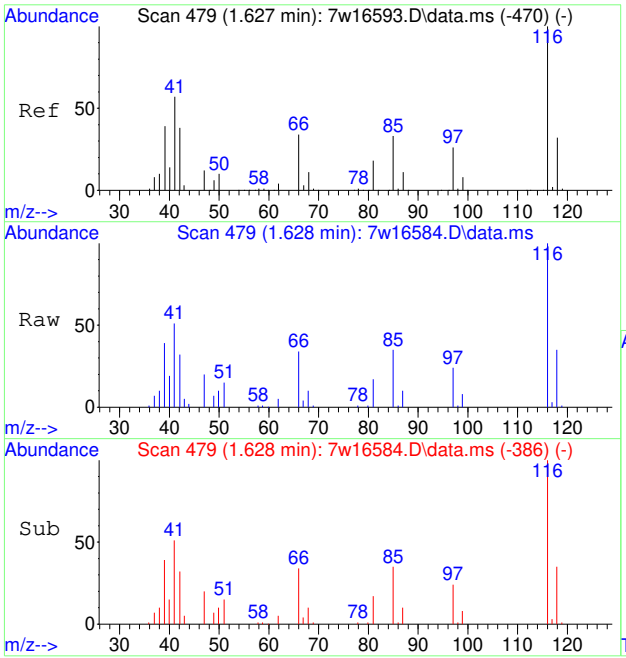


#6
DICHLORODIFLUOROMETHANE
Concen: 0.44 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 14890

Ion	Ratio	Lower	Upper
85	100		
87	38.2	23.1	42.9
50	23.9	12.1	22.5#

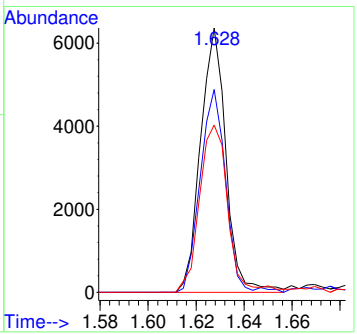


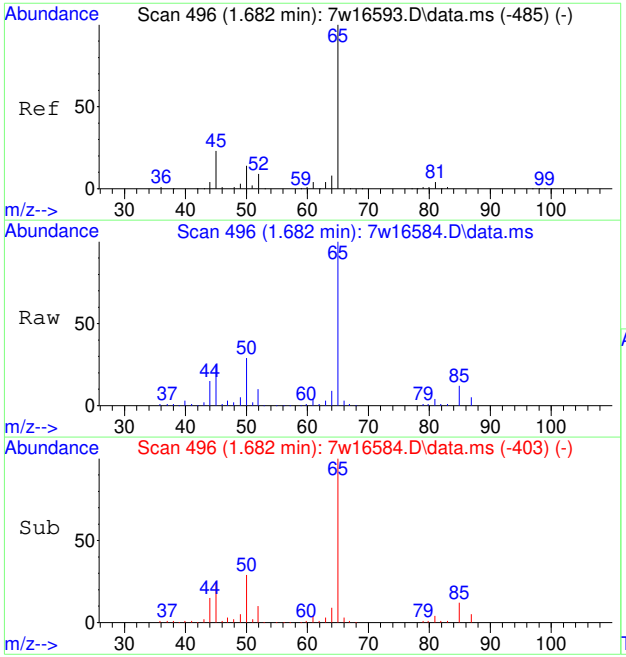


#7
PROPYLENE
Concen: 0.52 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 4672

Ion	Ratio	Lower	Upper
41	100		
39	76.8	51.0	94.8
42	71.9	46.6	86.6

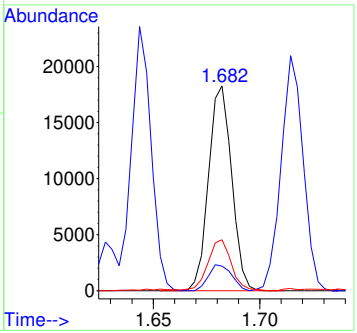


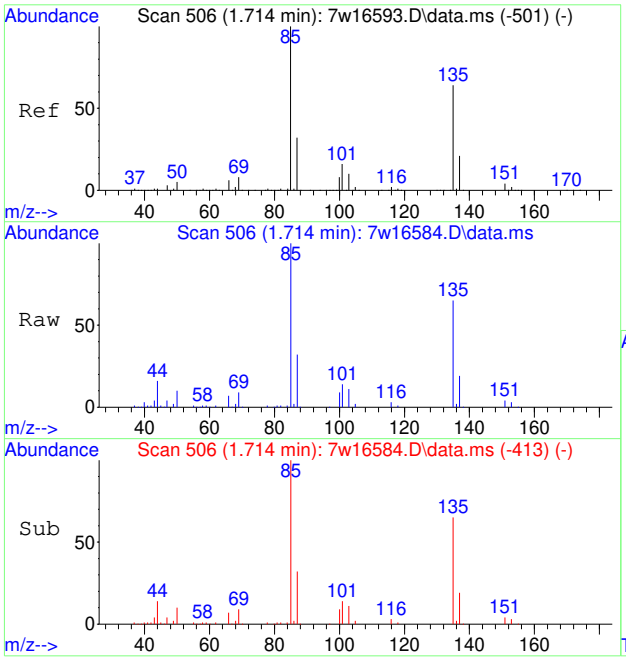


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.54 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 13815

Ion	Ratio	Lower	Upper
65	100		
85	13.0	9.7	17.9
45	26.7	17.0	31.6

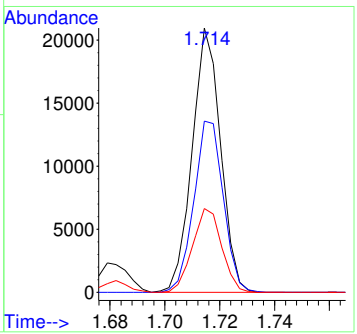


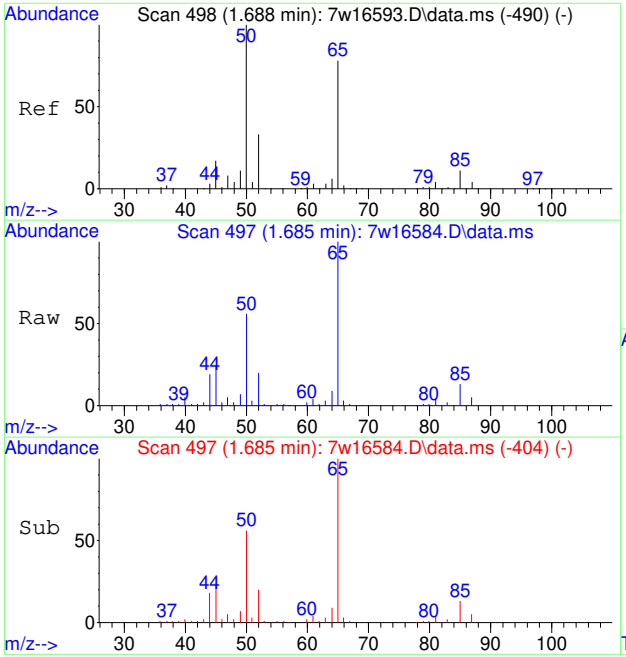


#9
FREON 114
Concen: 0.51 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 15094

Ion	Ratio	Lower	Upper
85	100		
135	67.3	61.3	113.9
87	32.6	23.2	43.0

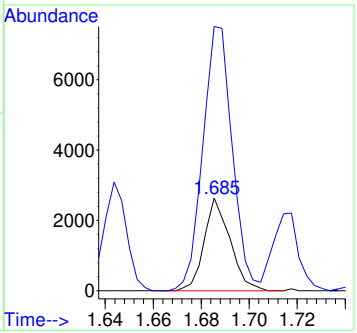


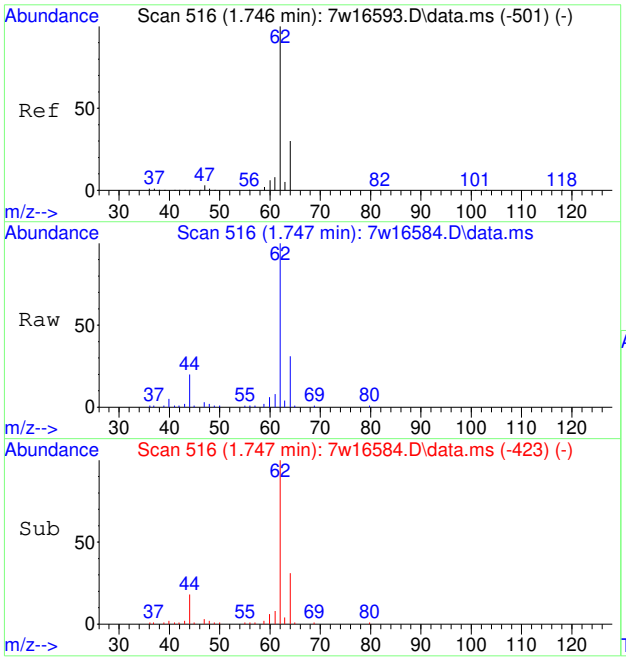


#10
CHLOROMETHANE
Concen: 0.52 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 1982

Ion	Ratio	Lower	Upper
52	100		
50	321.8	227.6	422.6

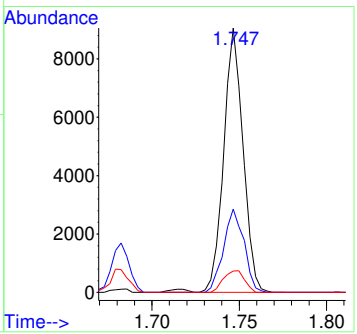


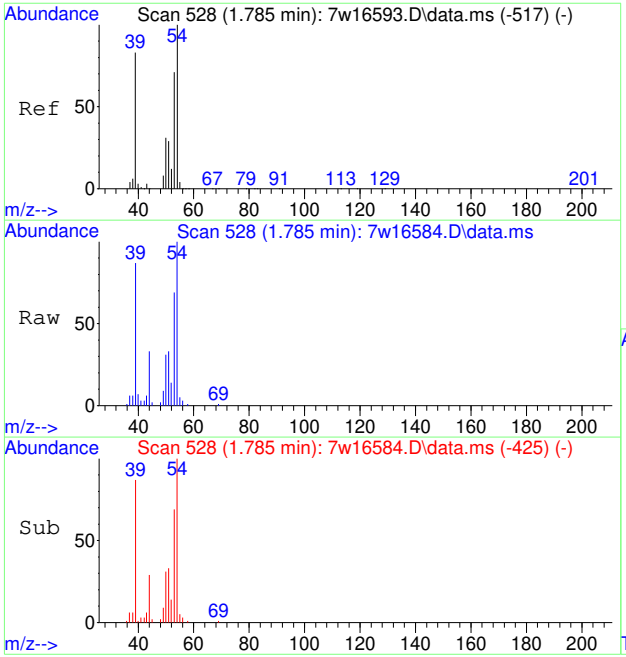


#11
VINYL CHLORIDE
Concen: 0.49 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 7044

Ion	Ratio	Lower	Upper
62	100		
64	33.0	21.6	40.2
61	8.9	5.7	10.7

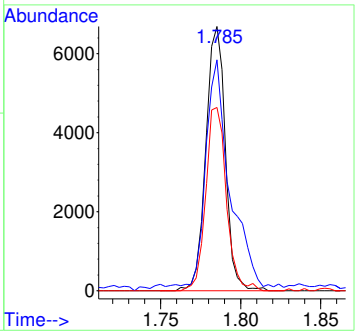


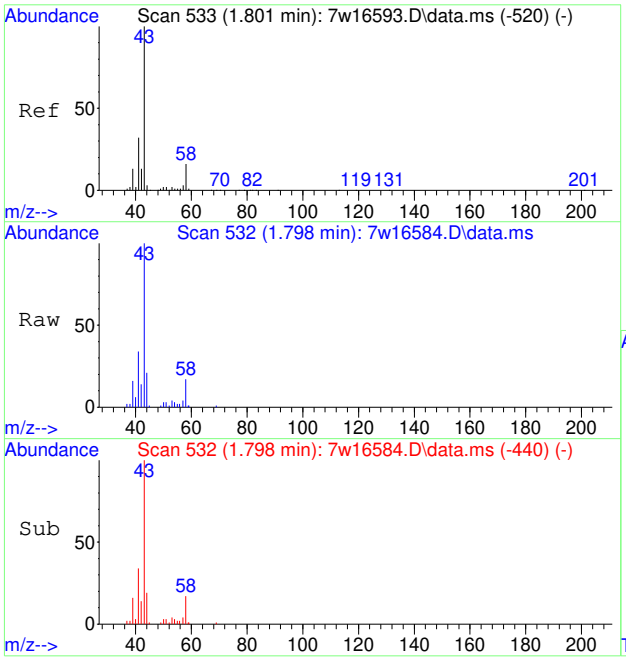


#12
1,3-BUTADIENE
Concen: 0.51 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 54 Resp: 5673

Ion	Ratio	Lower	Upper
54	100		
39	106.7	125.6	185.6#
53	73.4	40.7	100.7

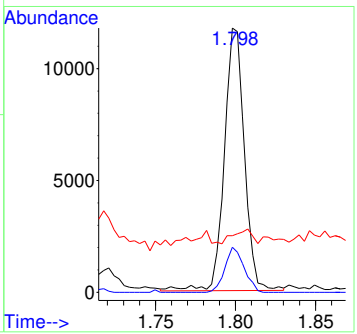


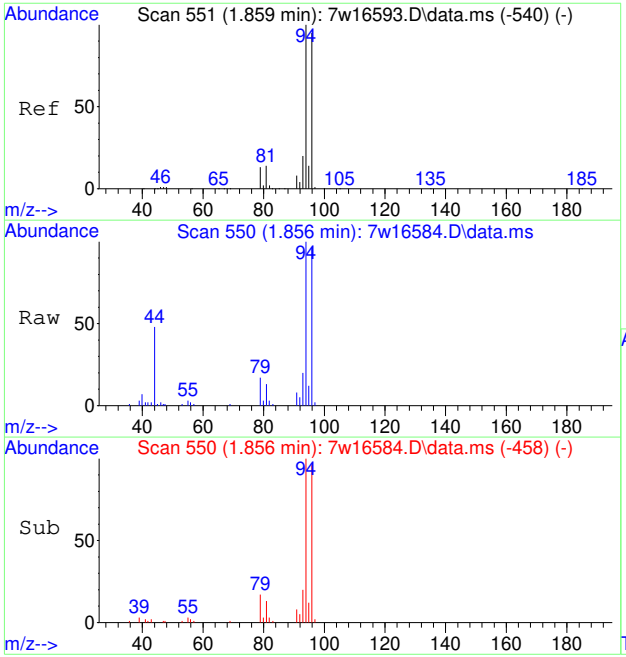


#13
N-BUTANE
Concen: 0.54 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 10254

Ion	Ratio	Lower	Upper
43	100		
58	16.4	10.4	19.4
44	24.5	3.0	5.6#

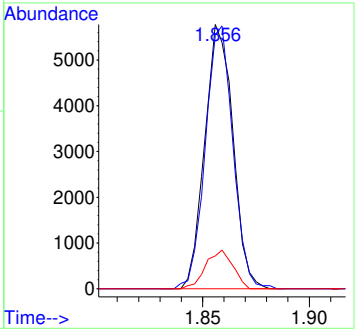


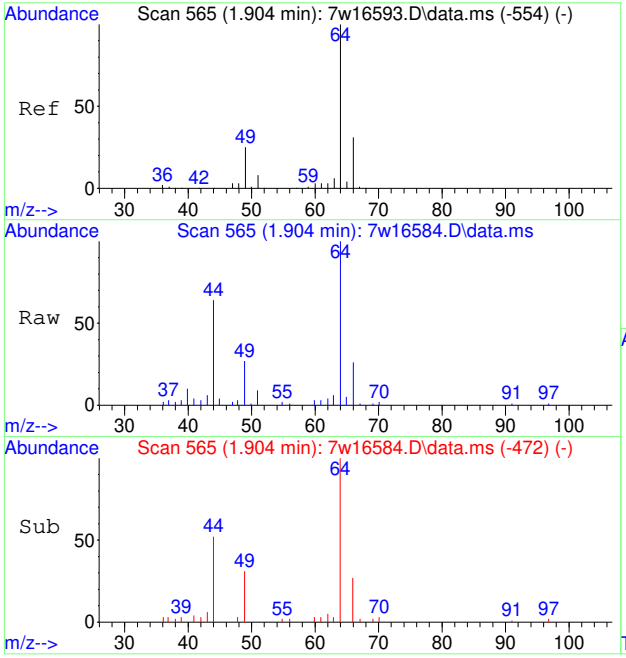


#14
BROMOMETHANE
Concen: 0.49 PPBV
RT: 1.856 min Scan# 550
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 94 Resp: 5311

Ion	Ratio	Lower	Upper
94	100		
96	97.2	63.6	118.0
95	14.2	10.0	18.6

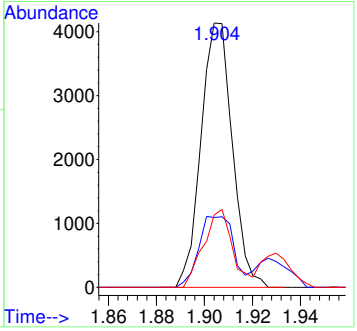


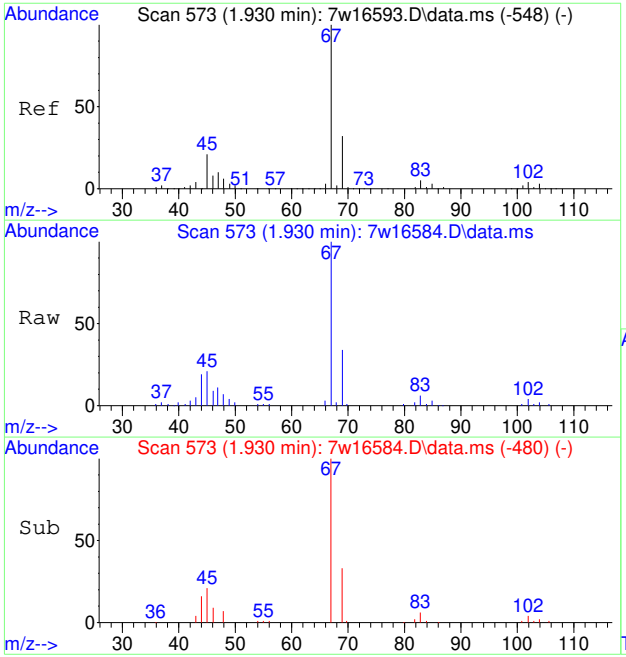


#15
CHLOROETHANE
Concen: 0.50 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 64 Resp: 3739

Ion	Ratio	Lower	Upper
64	100		
66	31.0	23.0	42.6
49	27.5	21.5	39.9

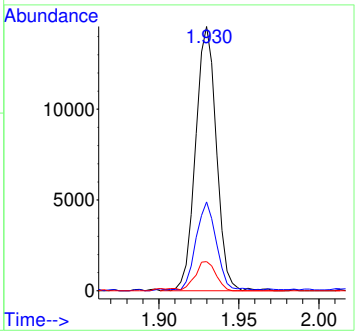


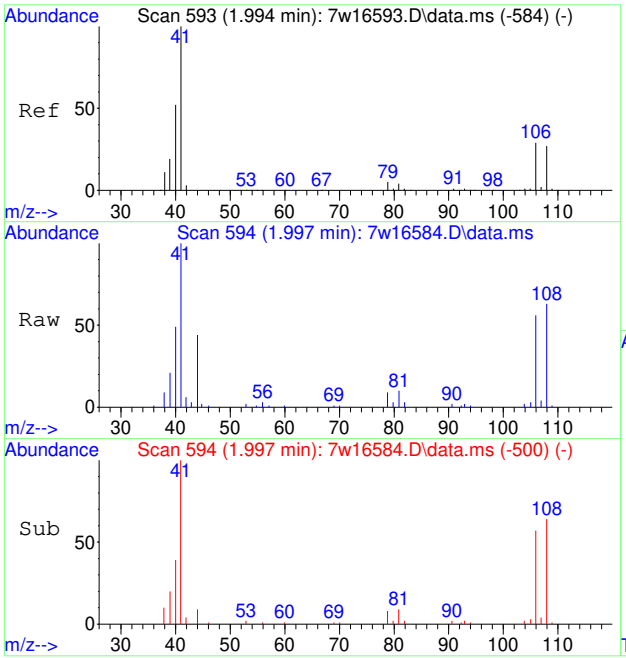


#16
DICHLOROFLUOROMETHANE
Concen: 0.49 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 13156

Ion	Ratio	Lower	Upper
67	100		
69	34.1	23.2	43.0
47	11.9	9.6	17.8

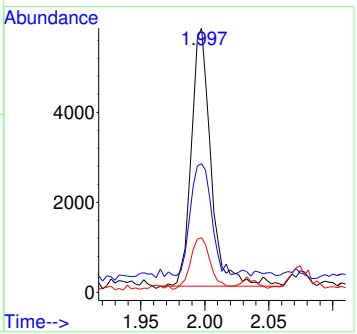


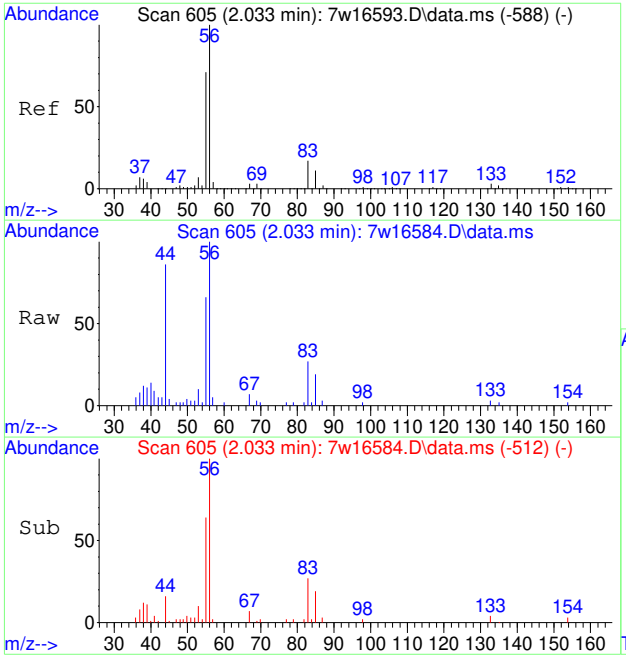


#17
ACETONITRILE
Concen: 0.52 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 6126

Ion	Ratio	Lower	Upper
41	100		
40	61.6	38.4	71.4
39	19.6	14.5	26.9

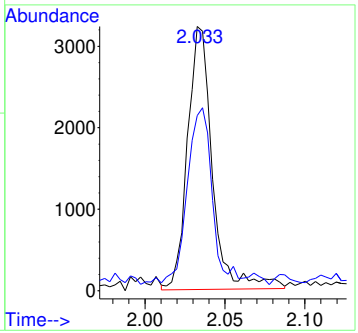


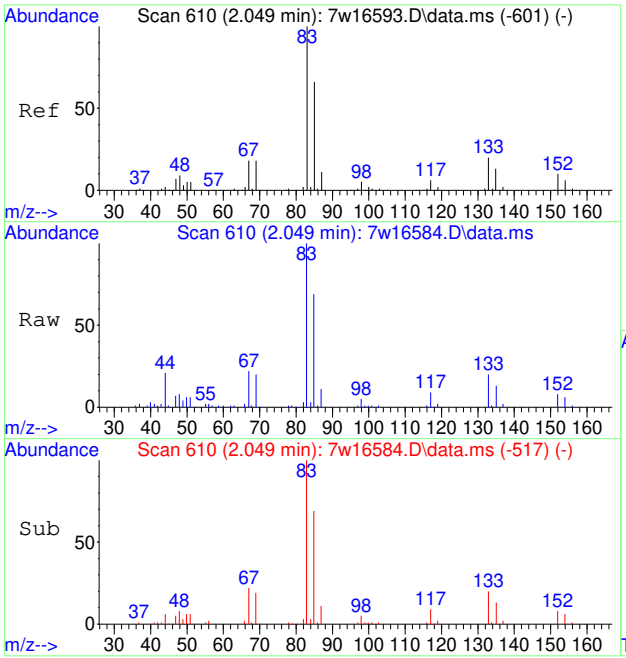


#18
ACROLEIN
Concen: 0.57 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 56 Resp: 3496

Ion	Ratio	Lower	Upper
56	100		
55	72.0	51.2	95.2

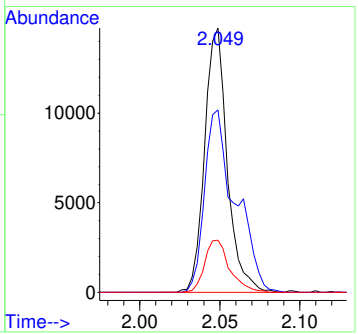


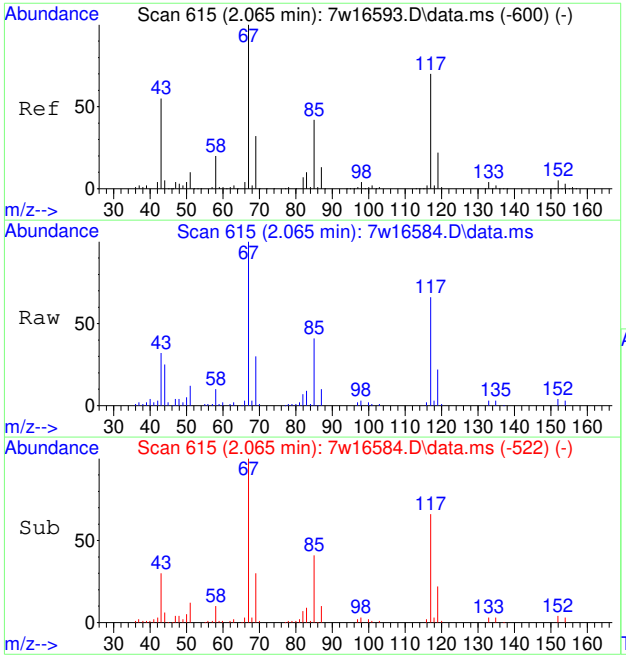


#19
FREON 123
Concen: 0.53 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14538

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.8	19.9	36.9

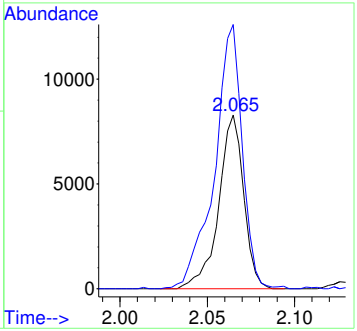


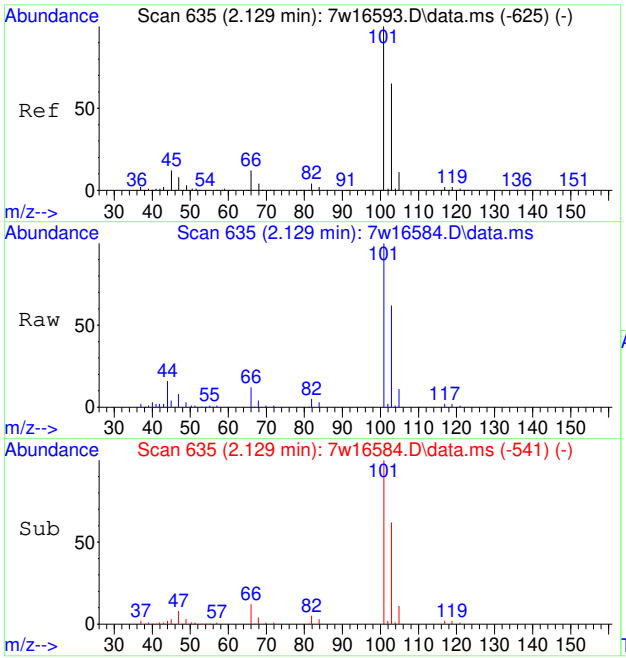


#20
FREON 123A
Concen: 0.51 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 8271

Ion	Ratio	Lower	Upper
117	100		
67	168.6	78.8	146.4#

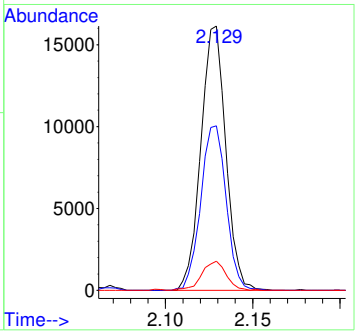


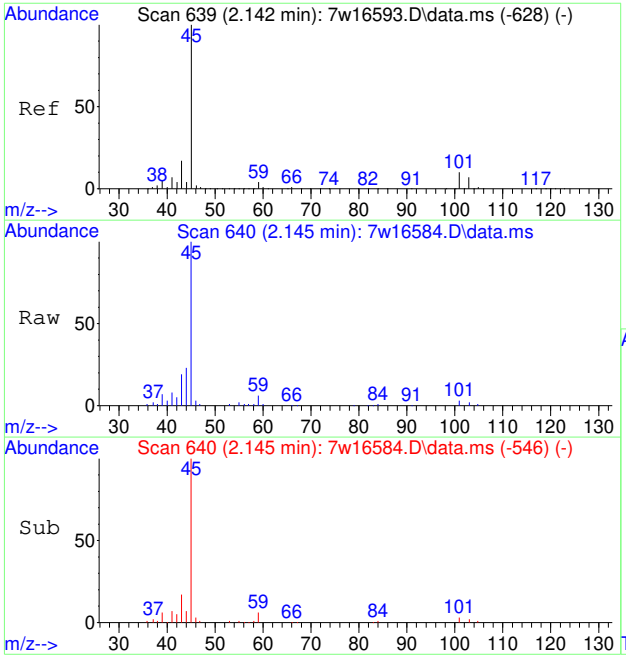


#21
TRICHLOROFLUOROMETHANE
Concen: 0.51 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:101 Resp: 16036

Ion	Ratio	Lower	Upper
101	100		
103	63.5	44.3	82.3
105	11.1	7.3	13.7

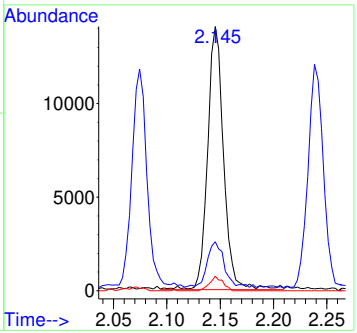


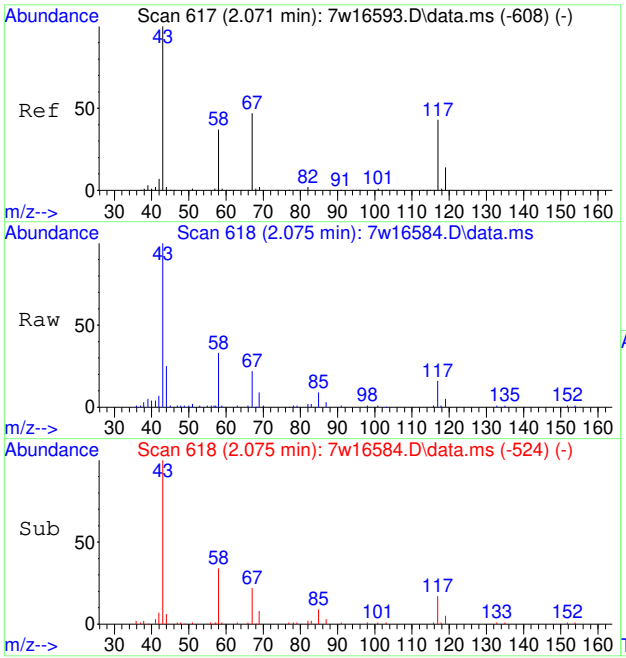


#22
ISOPROPYL ALCOHOL
Concen: 0.56 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 14702

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.5	3.1	5.8

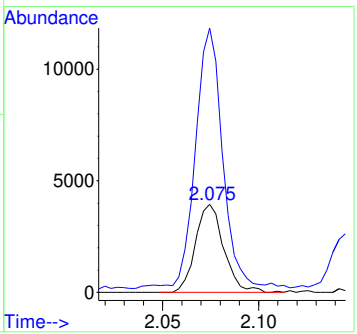


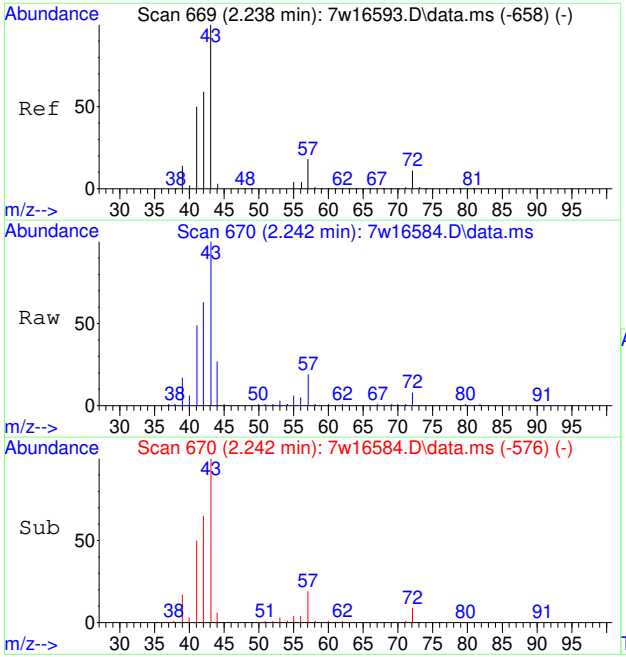


#23
ACETONE
Concen: 0.56 PPBV
RT: 2.075 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 4031

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

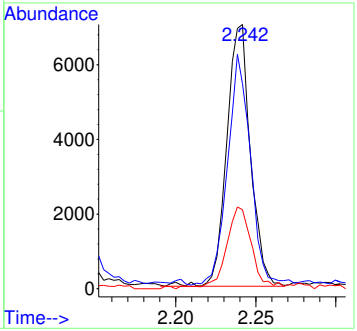


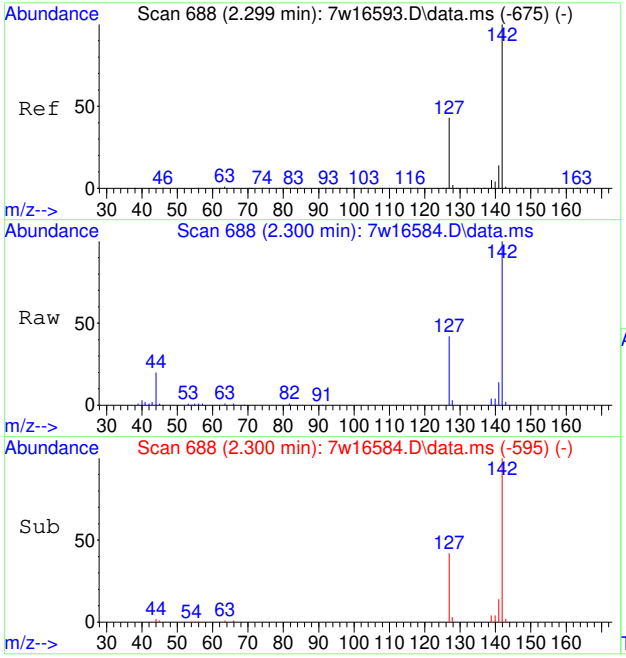


#24
PENTANE
Concen: 0.54 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 42 Resp: 7252

Ion	Ratio	Lower	Upper
42	100		
41	86.5	69.2	128.6
57	35.6	18.6	34.6#

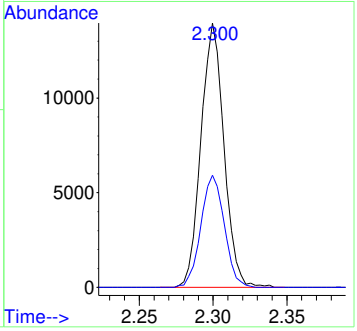


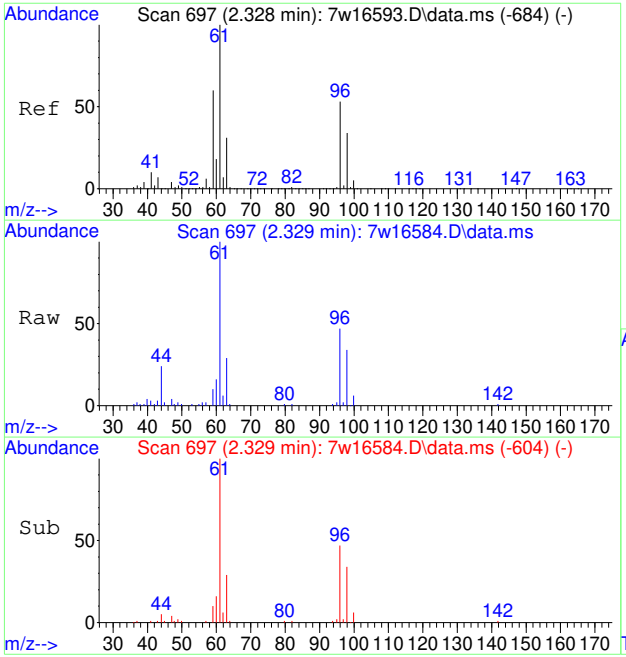


#25
IODOMETHANE
Concen: 0.52 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:142 Resp: 15067

Ion	Ratio	Lower	Upper
142	100		
127	43.2	32.1	59.7

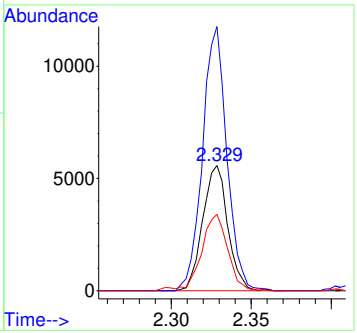


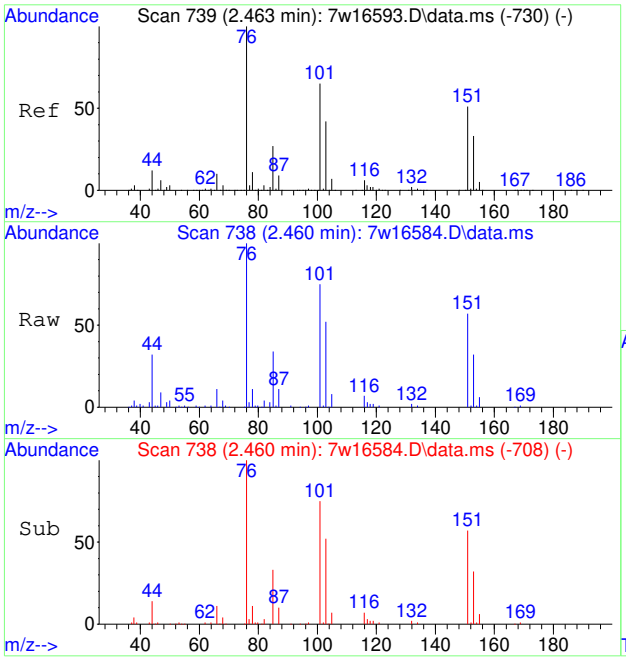


#26
1,1-DICHLOROETHYLENE
Concen: 0.52 PPBV
RT: 2.329 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6087

Ion	Ratio	Lower	Upper
96	100		
61	204.2	98.3	182.5#
63	64.2	33.2	61.7#

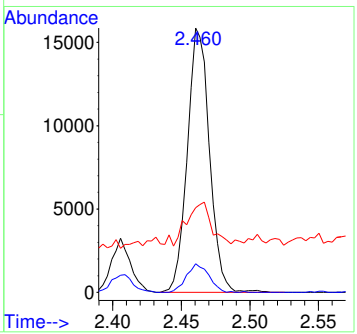


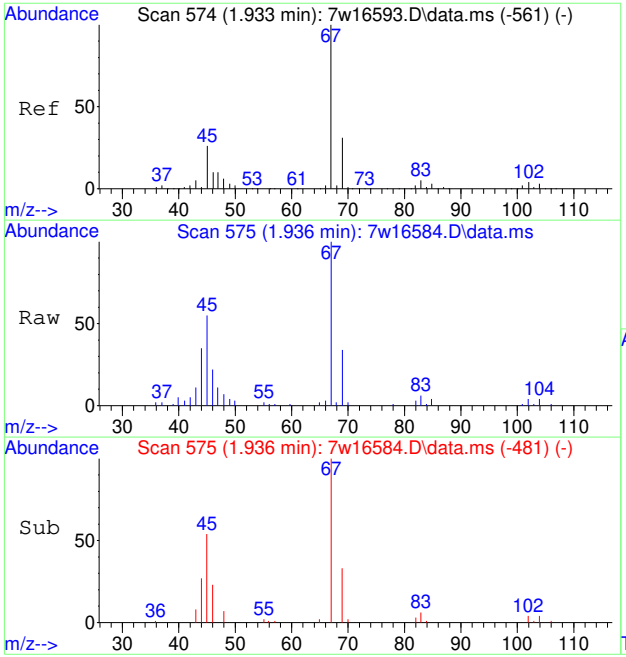


#27
CARBON DISULFIDE
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 17823

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	21.1	13.0	24.1

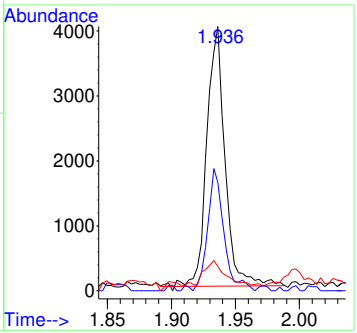


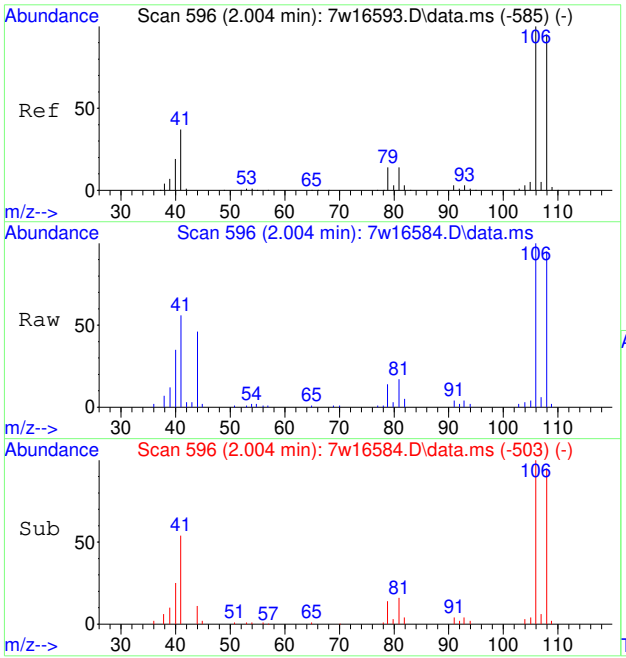


#28
ETHANOL
Concen: 0.60 PPBV
RT: 1.936 min Scan# 575
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 3995

Ion	Ratio	Lower	Upper
45	100		
46	43.2	29.7	55.1
42	19.9	7.3	13.5#

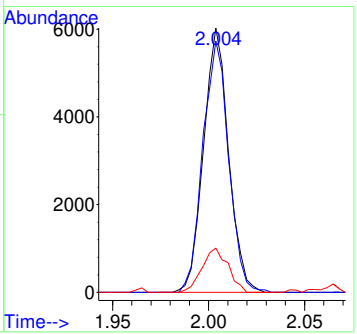


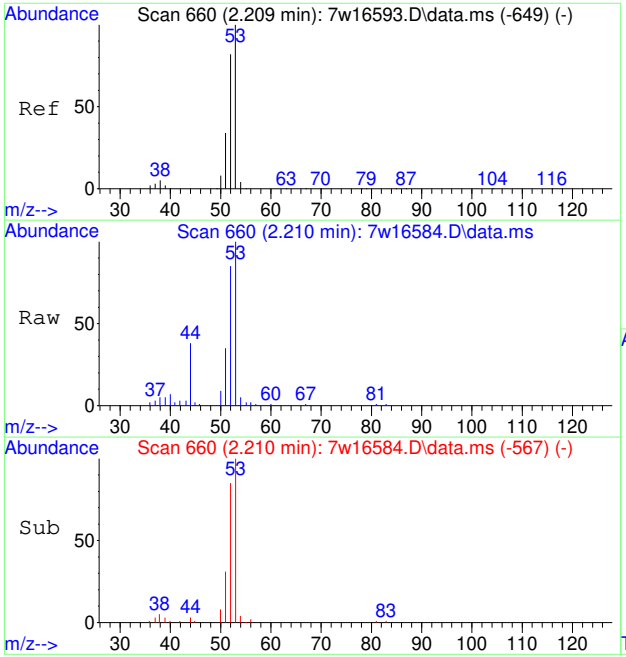


#29
BROMOETHENE
Concen: 0.48 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:106 Resp: 5459

Ion	Ratio	Lower	Upper
106	100		
108	98.1	68.3	126.8
81	17.4	14.7	27.3

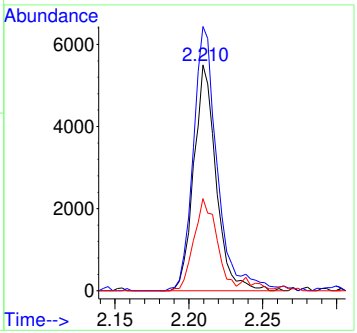


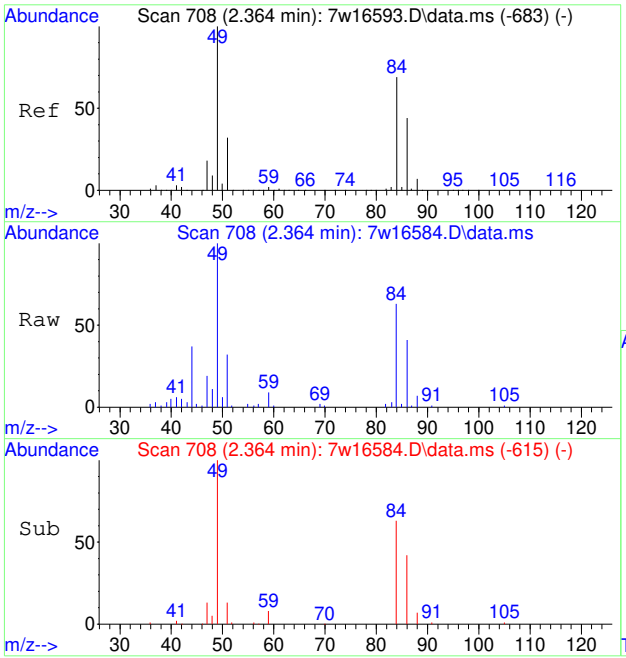


#30
ACRYLONITRILE
Concen: 0.58 PPBV
RT: 2.210 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 5767

Ion	Ratio	Lower	Upper
52	100		
53	126.8	86.3	160.3
51	41.9	33.6	62.4

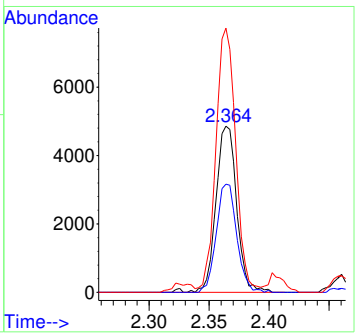


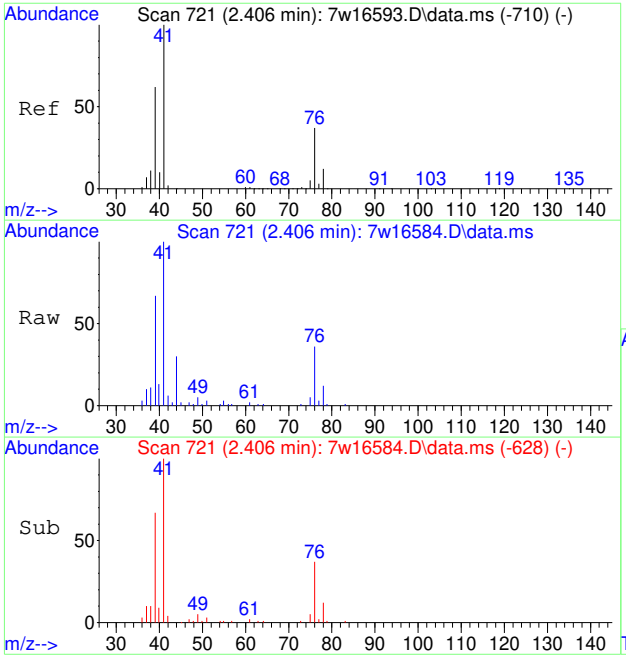


#31
METHYLENE CHLORIDE
Concen: 0.53 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 5842

Ion	Ratio	Lower	Upper
84	100		
86	64.4	44.9	83.5
49	156.9	79.7	148.1#

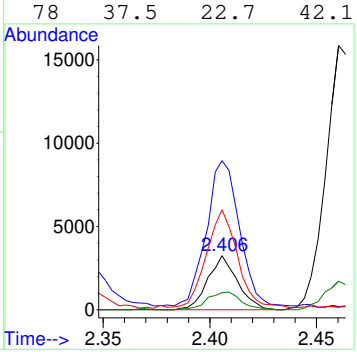


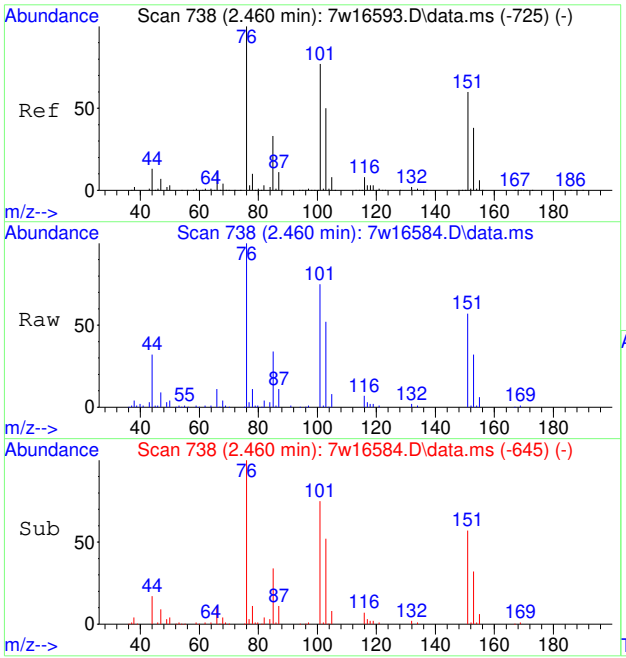


#32
3-CHLOROPROPENE
Concen: 0.50 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 3137

Ion	Ratio	Lower	Upper
76	100		
41	305.0	160.9	298.9#
39	194.1	150.7	279.9
78	37.5	22.7	42.1

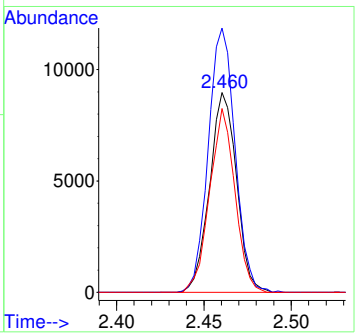


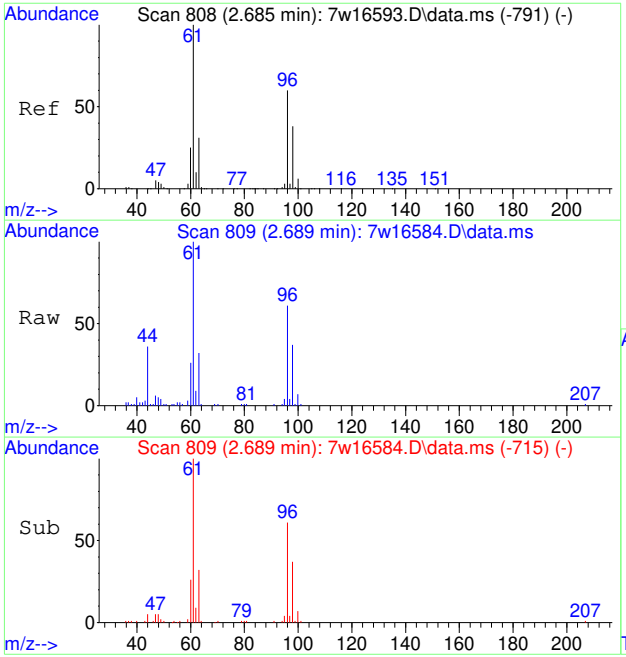


#33
FREON 113
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:151 Resp: 9645

Ion	Ratio	Lower	Upper
151	100		
101	131.3	81.1	150.7
103	86.0	51.4	95.4

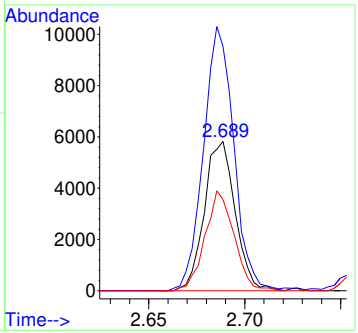


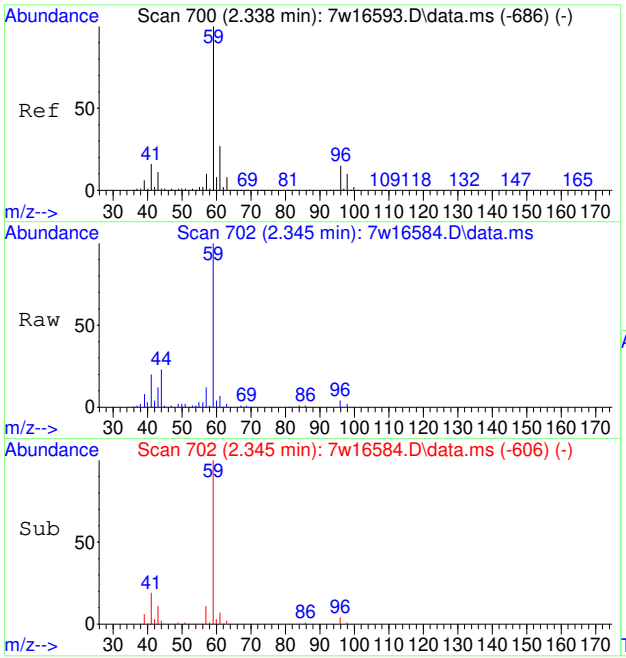


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6513

Ion	Ratio	Lower	Upper
96	100		
61	175.4	78.5	145.9#
98	63.1	46.5	86.3

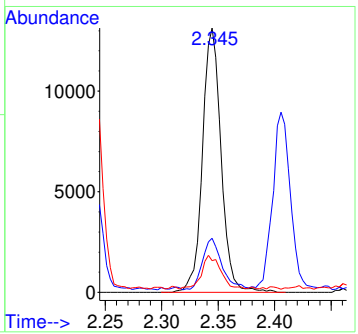


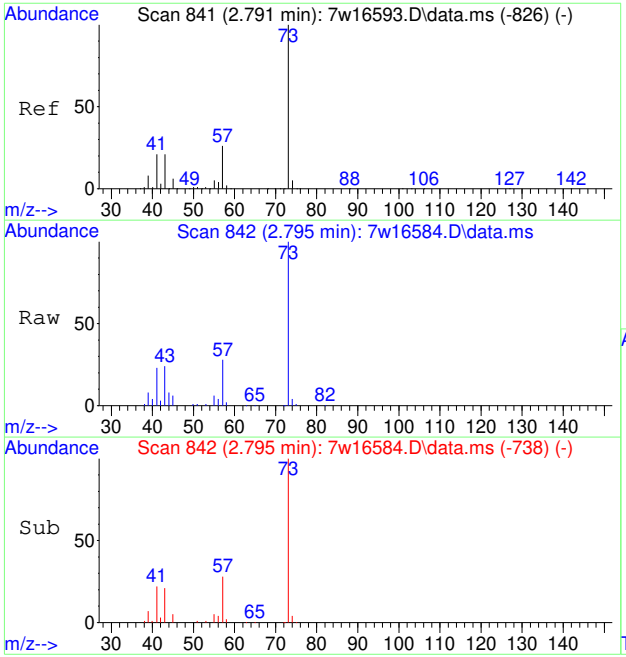


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.47 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 15020

Ion	Ratio	Lower	Upper
59	100		
41	20.4	15.3	28.5
43	12.8	12.3	22.9

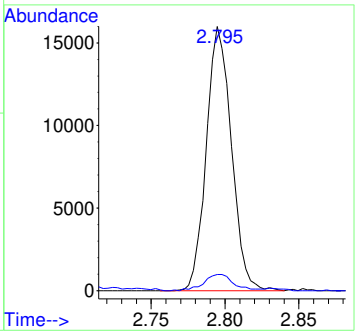


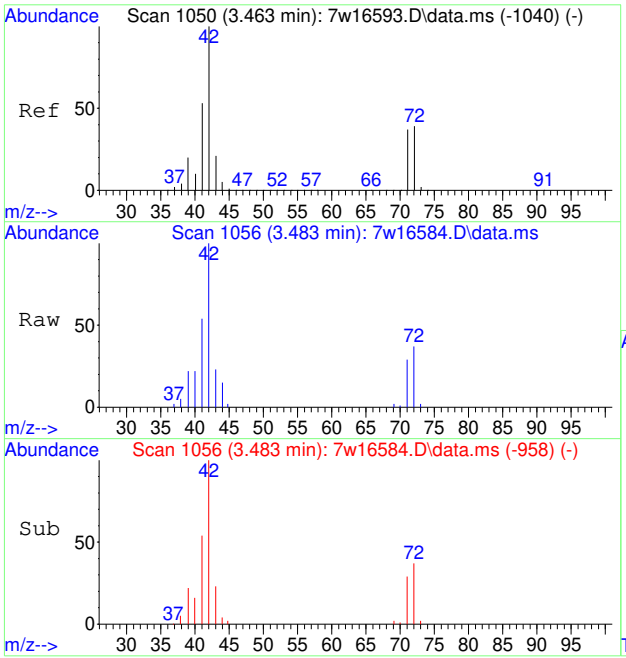


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.52 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 73 Resp: 18863

Ion	Ratio	Lower	Upper
73	100		
45	8.1	3.4	6.4#

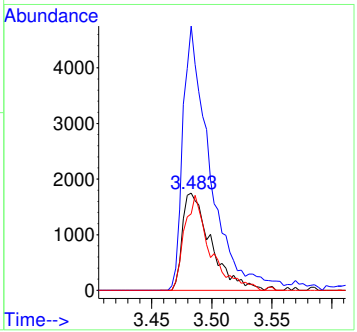


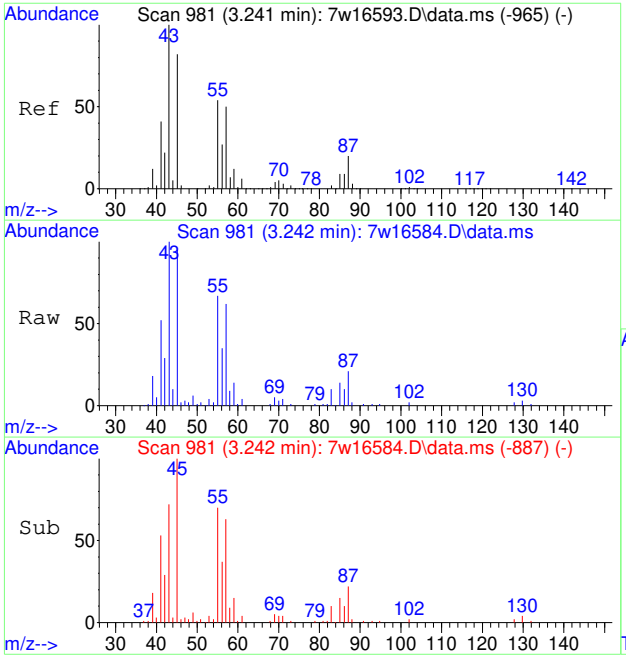


#37
TETRAHYDROFURAN
Concen: 0.48 PPBV
RT: 3.483 min Scan# 1056
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 2906

Ion	Ratio	Lower	Upper
72	100		
42	264.6	153.0	284.2
71	88.4	62.7	116.5

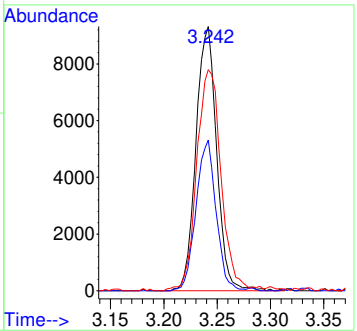


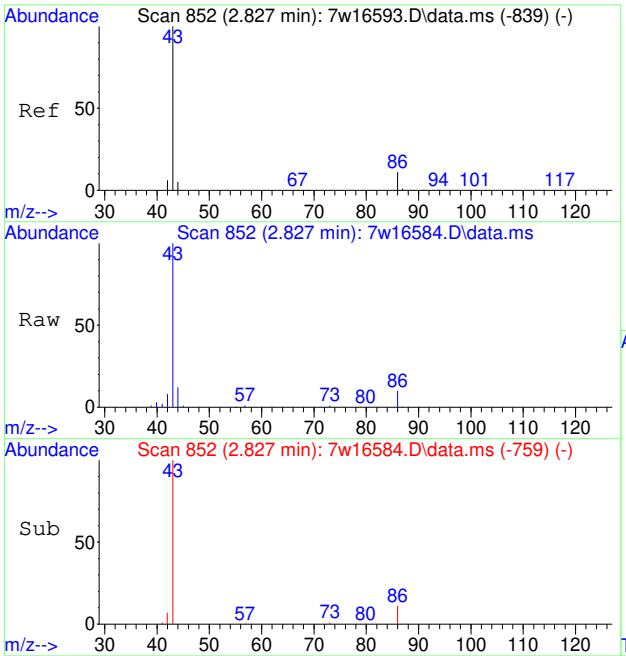


#38
HEXANE
Concen: 0.52 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 12572

Ion	Ratio	Lower	Upper
57	100		
56	55.7	37.3	69.3
41	98.4	86.7	161.1

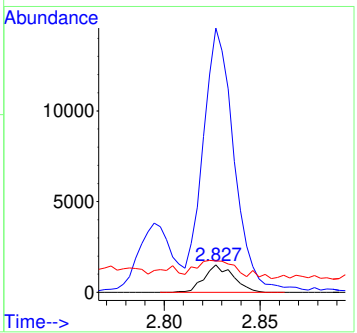


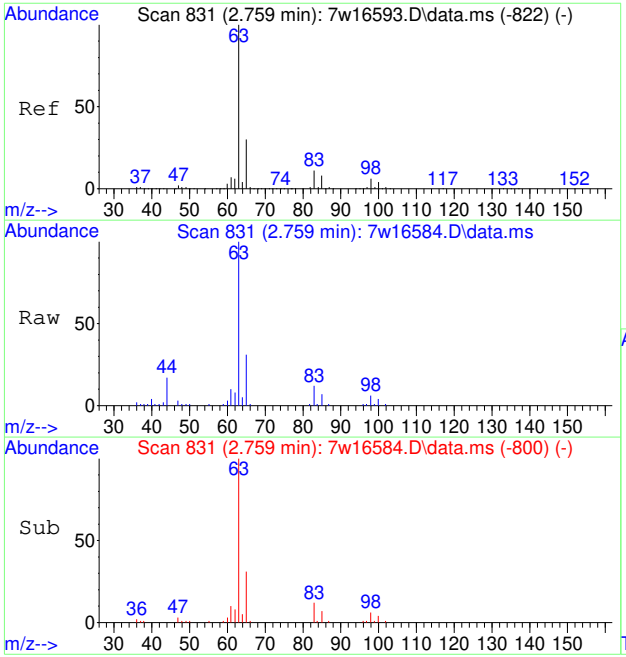


#39
VINYL ACETATE
Concen: 0.45 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 86 Resp: 1605

Ion	Ratio	Lower	Upper
86	100		
43	1019.3	667.9	1240.3
44	95.6	32.7	60.7#

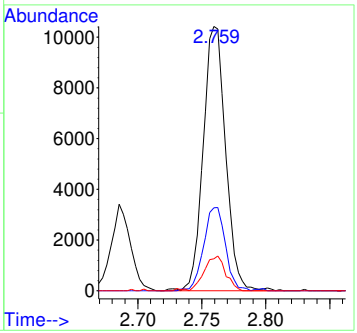


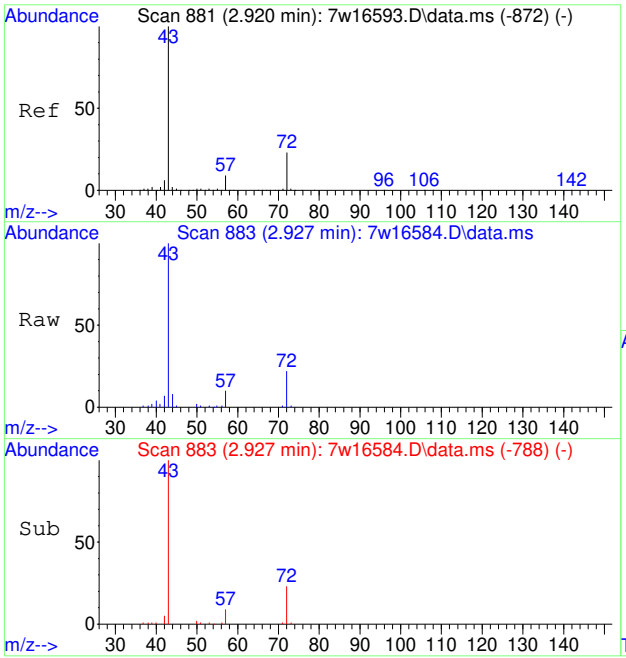


#40
1,1-DICHLOROETHANE
Concen: 0.50 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 12723

Ion	Ratio	Lower	Upper
63	100		
65	30.9	21.8	40.6
83	12.8	10.6	19.6

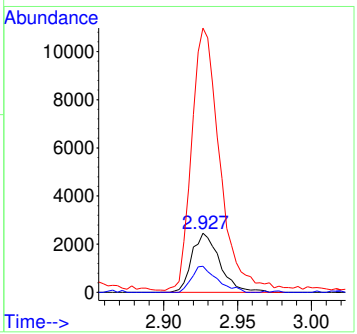


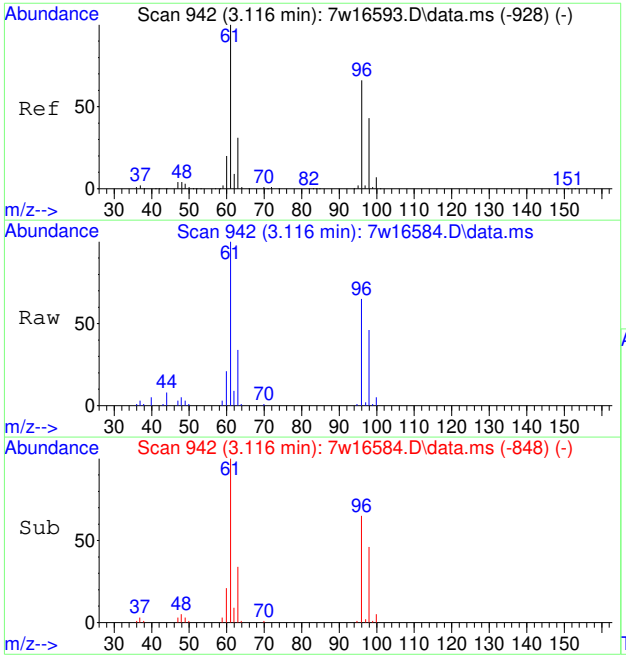


#41
METHYL ETHYL KETONE
Concen: 0.49 PPBV
RT: 2.927 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 3223

Ion	Ratio	Lower	Upper
72	100		
57	40.2	20.3	37.7#
43	453.6	282.8	525.2

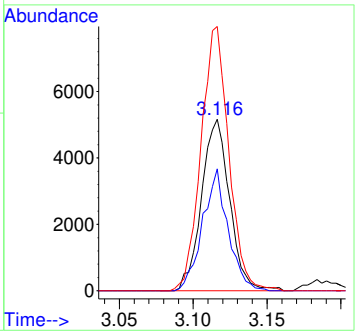


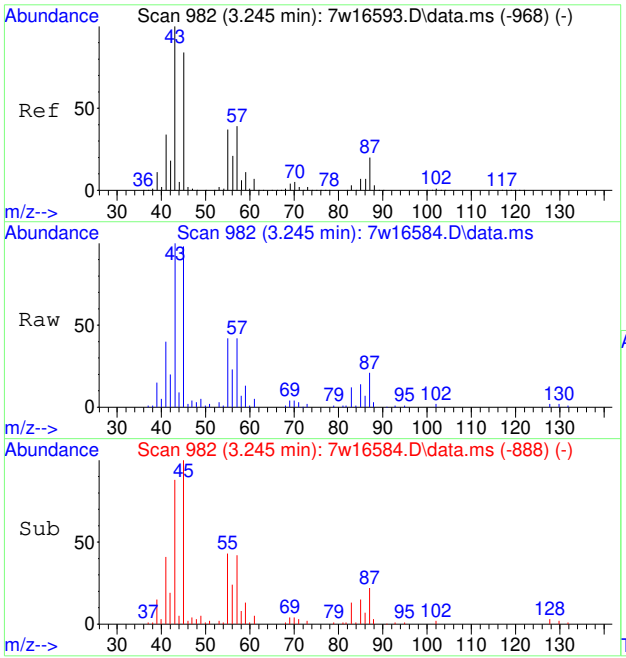


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6837

Ion	Ratio	Lower	Upper
96	100		
98	64.4	46.8	86.8
61	152.1	78.3	145.5#

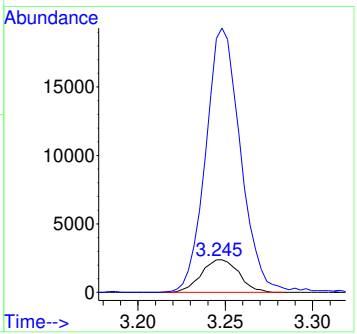


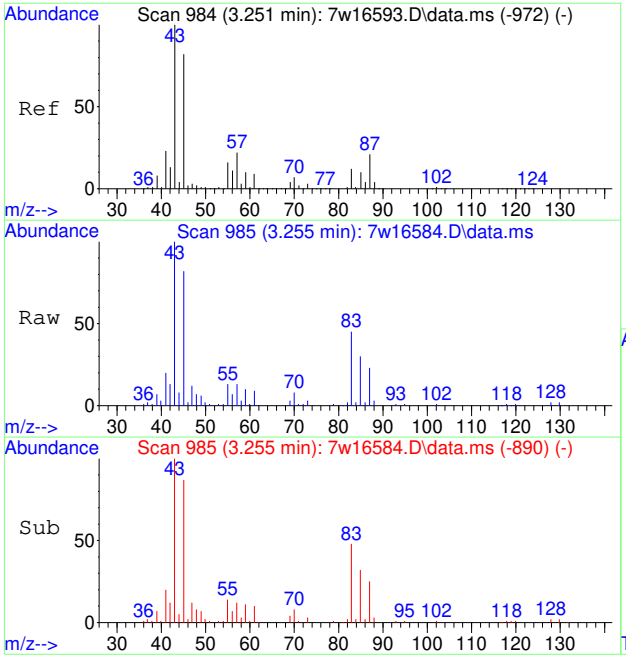


#43
DIISOPROPYL ETHER
Concen: 0.51 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 3577

Ion	Ratio	Lower	Upper
59	100		
45	758.7	532.1	988.1

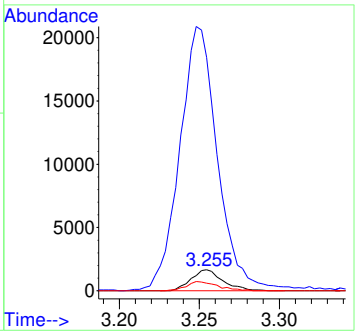


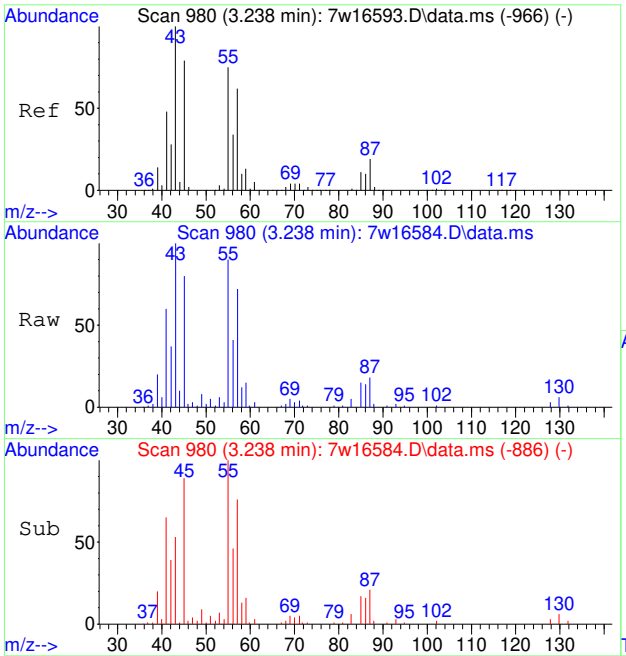


#44
ETHYL ACETATE
Concen: 0.47 PPBV
RT: 3.255 min Scan# 985
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 61 Resp: 2292

Ion	Ratio	Lower	Upper
61	100		
43	1515.1	1127.5	2093.9
88	43.9	36.2	67.2

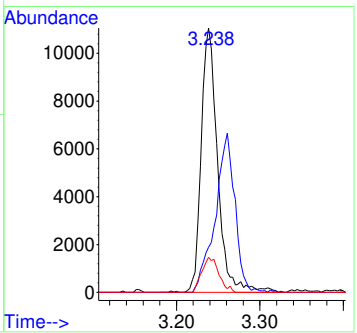


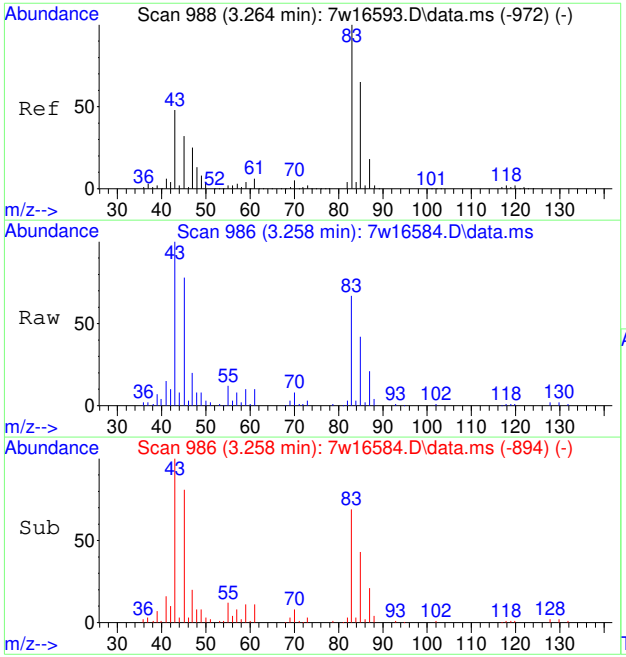


#45
METHYL ACRYLATE
Concen: 0.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 15089

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

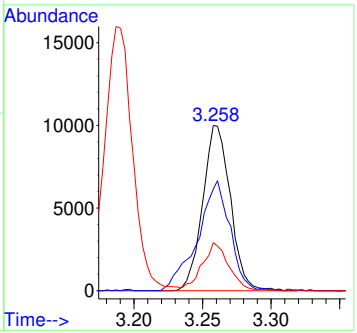


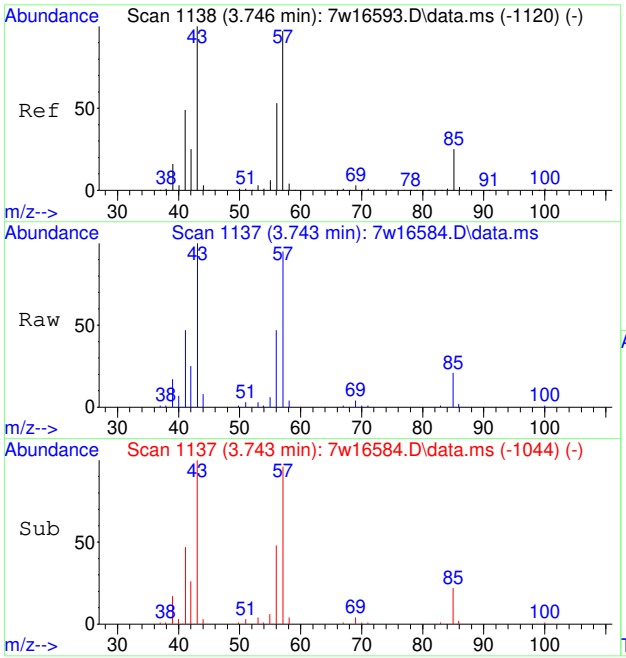


#46
CHLOROFORM
Concen: 0.53 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14039

Ion	Ratio	Lower	Upper
83	100		
85	78.2	54.6	101.4
47	28.4	17.9	33.3

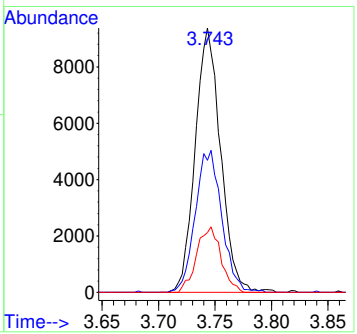


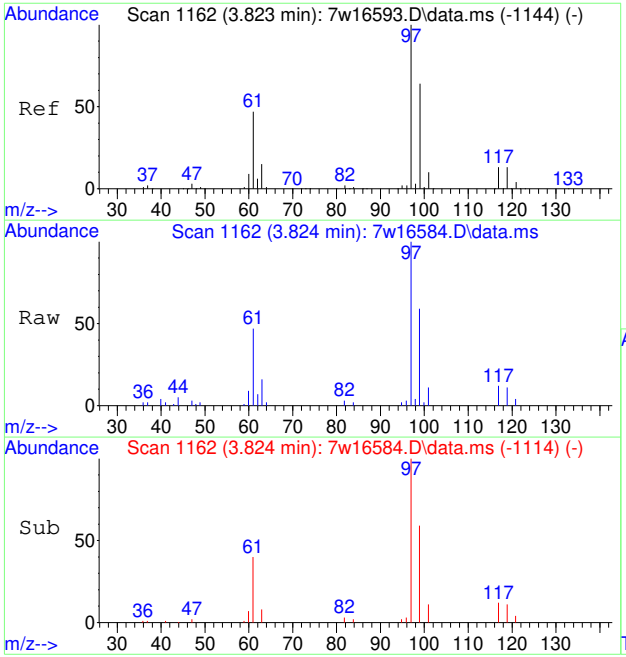


#47
2,4-DIMETHYLPENTANE
Concen: 0.53 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 14638

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	23.7	24.1	44.7#

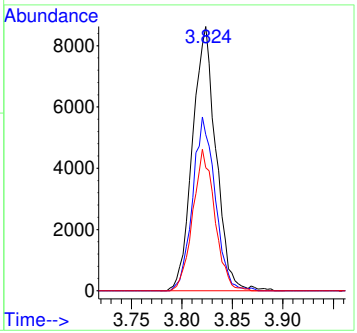


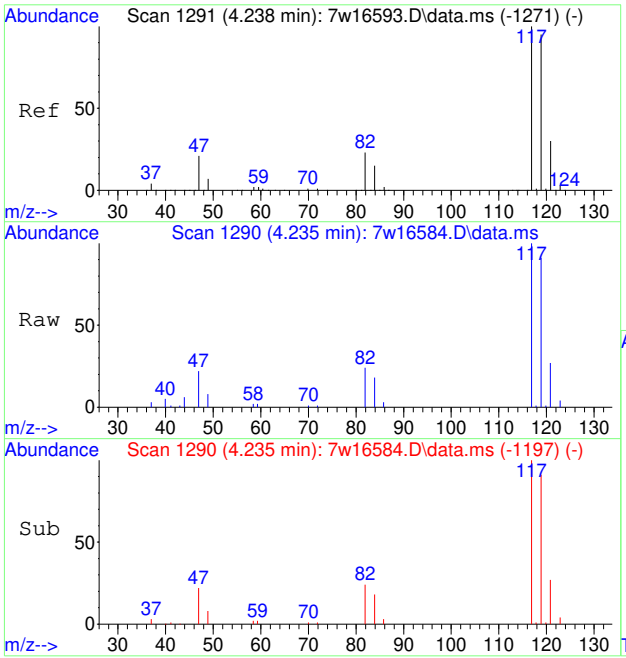


#48
1,1,1-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 97 Resp: 13952

Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.9	83.5
61	50.0	28.6	53.0

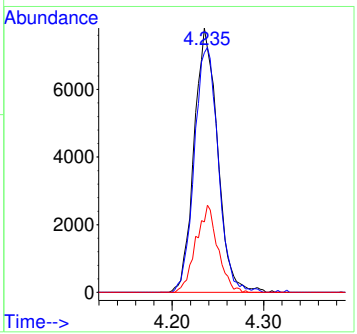


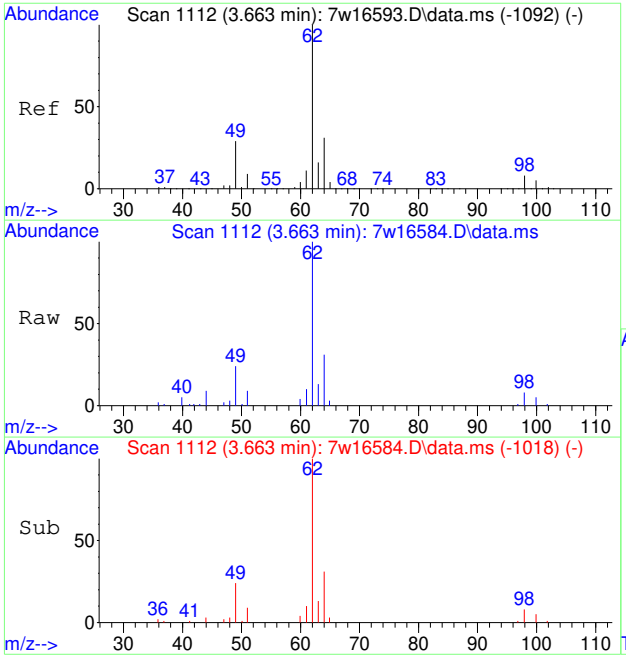


#49
CARBON TETRACHLORIDE
Concen: 0.47 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 13931

Ion	Ratio	Lower	Upper
117	100		
119	94.6	68.8	127.8
121	30.7	22.2	41.2

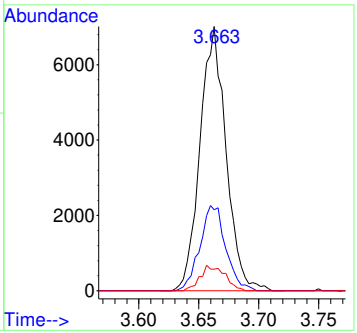


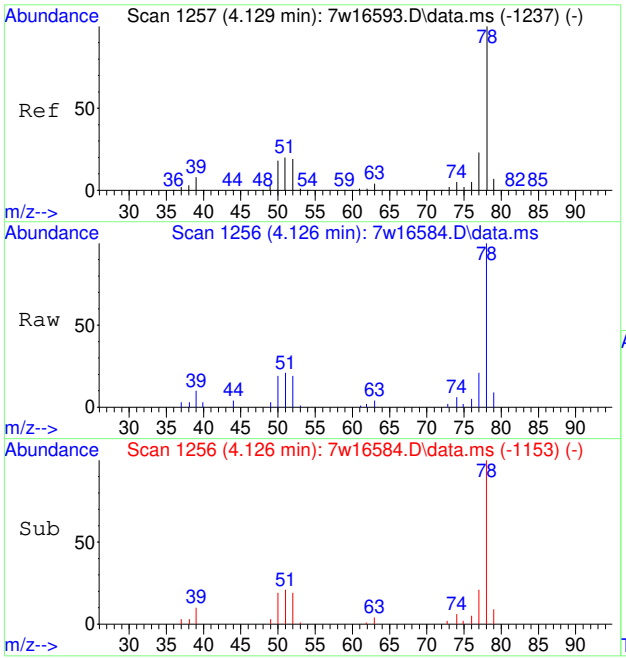


#50
1,2-DICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 10566

Ion	Ratio	Lower	Upper
62	100		
64	32.0	22.5	41.7
98	9.0	6.8	12.6

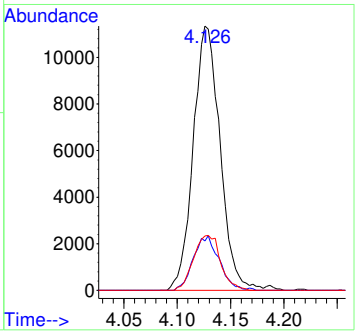


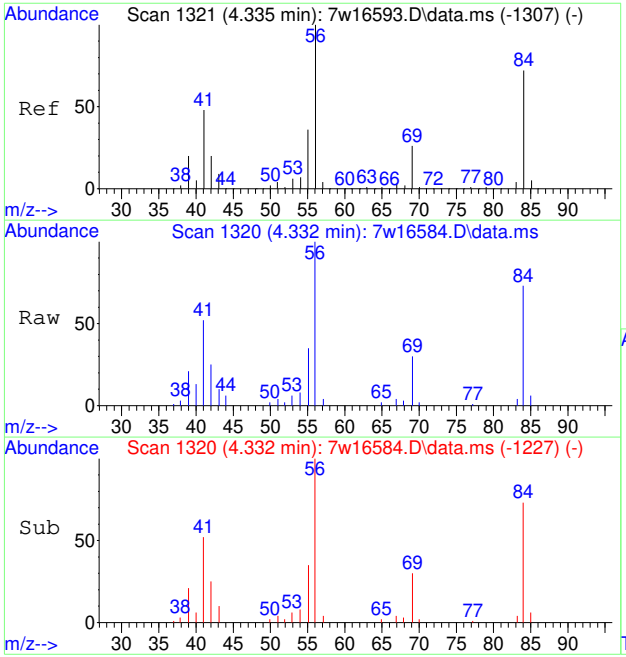


#51
BENZENE
Concen: 0.51 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 78 Resp: 19953

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	44.6
51	20.9	0.0	47.3

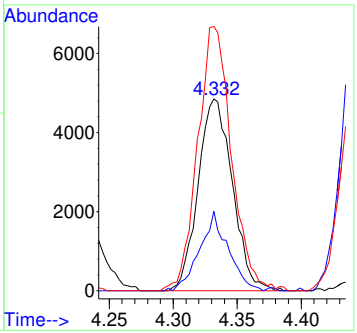


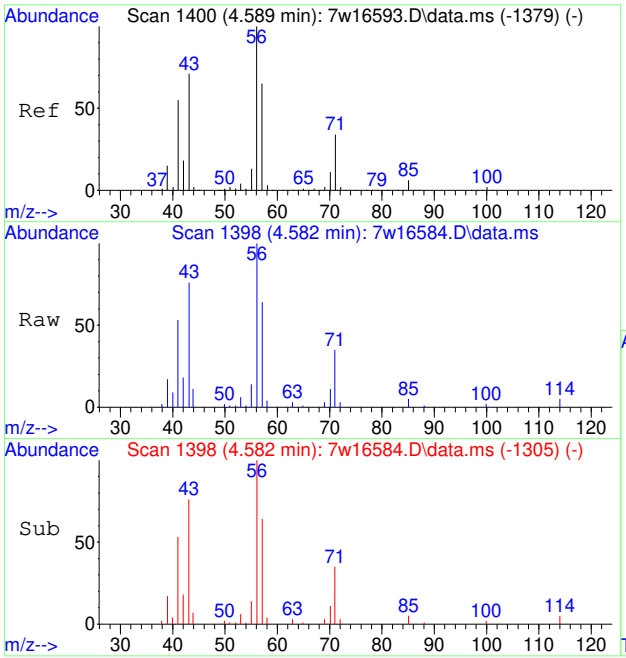


#53
CYCLOHEXANE
Concen: 0.51 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 9049

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	136.0	70.2	130.4#

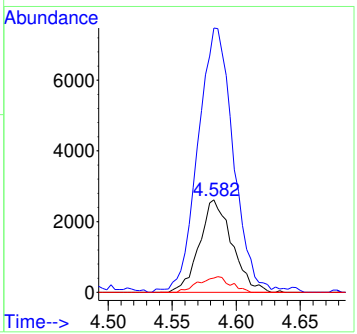


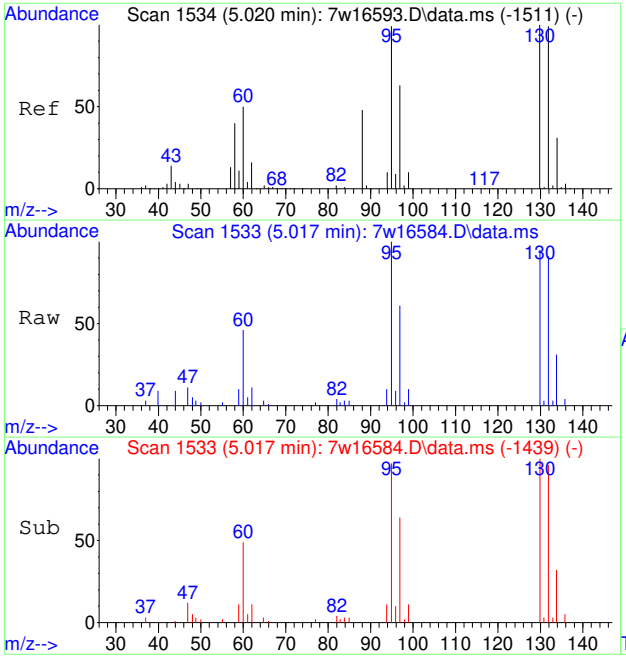


#54
2,3-DIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 71 Resp: 4648

Ion	Ratio	Lower	Upper
71	100		
56	311.5	171.4	318.4
85	16.7	12.6	23.4

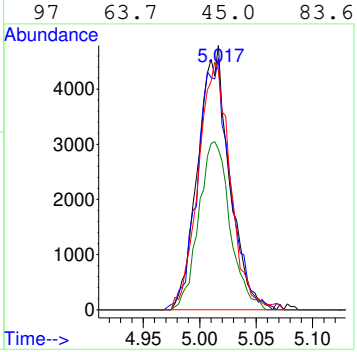


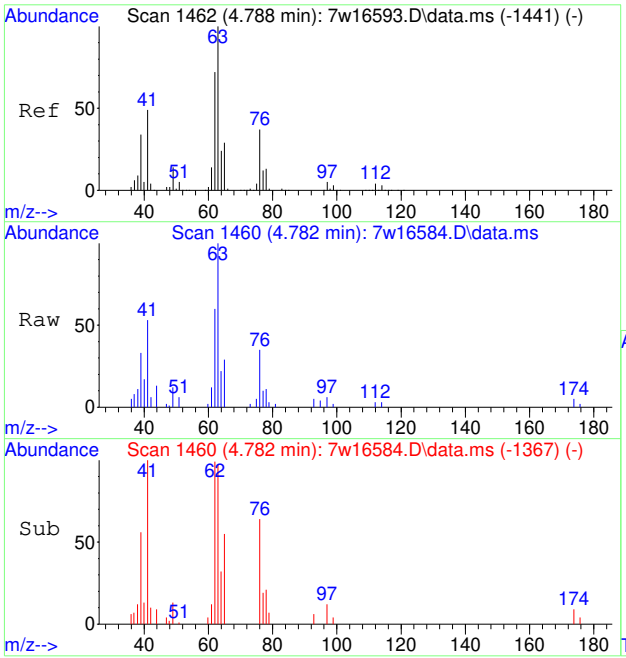


#55
TRICHLOROETHENE
Concen: 0.49 PPBV
RT: 5.017 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 95 Resp: 9226

Ion	Ratio	Lower	Upper
95	100		
130	97.8	85.9	159.5
132	95.6	79.4	147.4
97	63.7	45.0	83.6

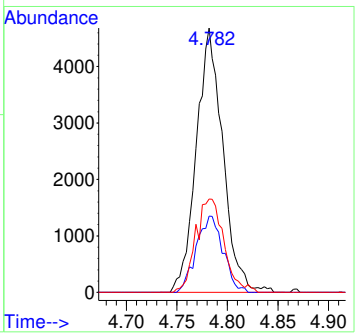


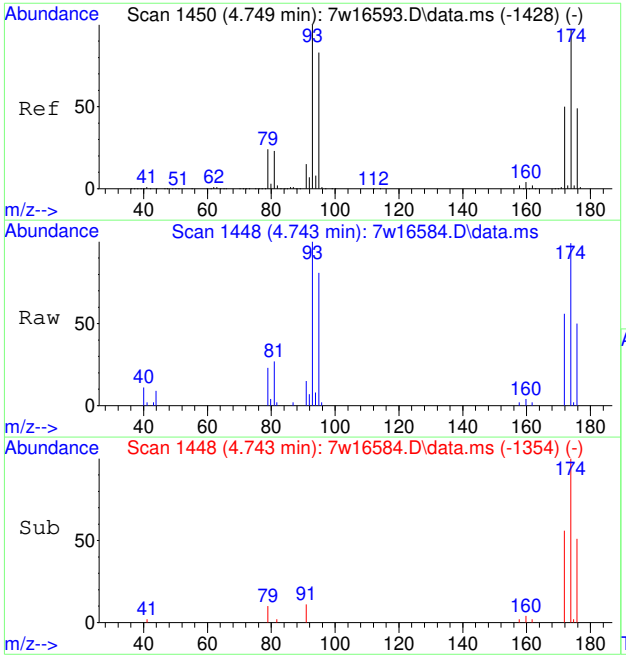


#56
1,2-DICHLOROPROPANE
Concen: 0.51 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 8549

Ion	Ratio	Lower	Upper
63	100		
65	29.1	22.6	42.0
76	37.7	31.8	59.0

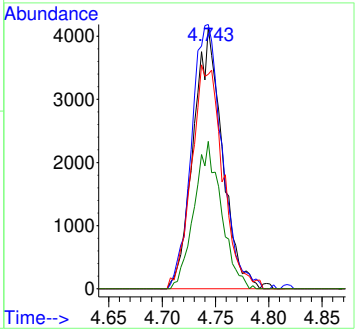


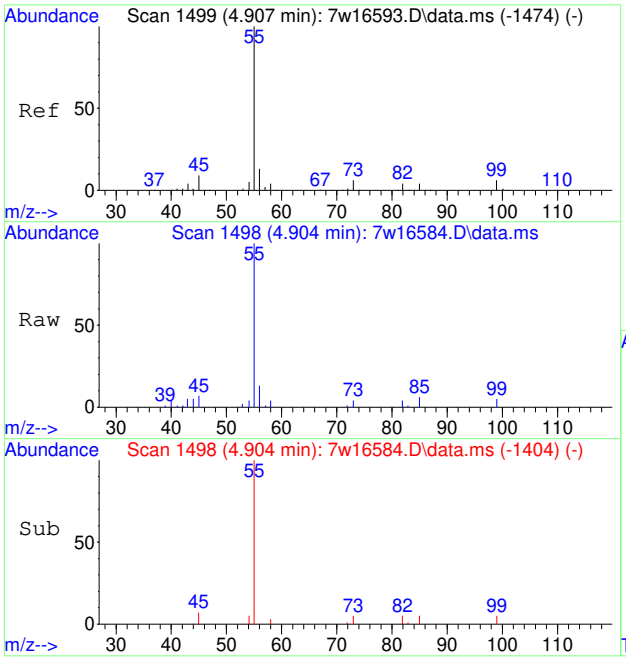


#57
DIBROMOMETHANE
Concen: 0.51 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:174 Resp: 7819

Ion	Ratio	Lower	Upper
174	100		
93	106.5	67.3	125.1
95	91.9	56.8	105.6
172	52.9	36.3	67.5

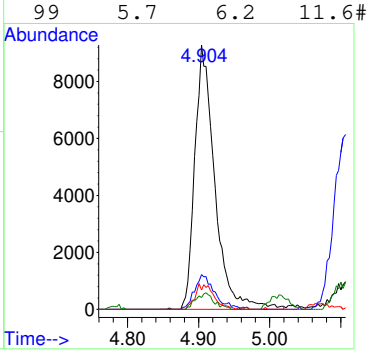


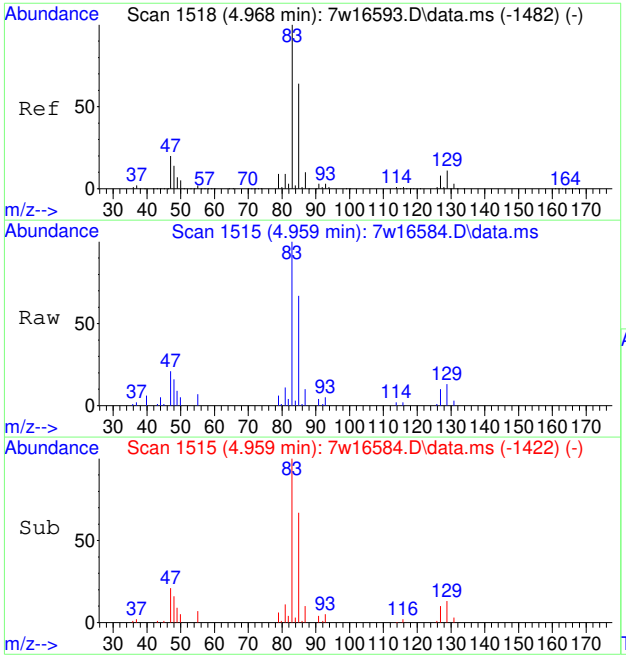


#58
ETHYL ACRYLATE
Concen: 0.48 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 18149

Ion	Ratio	Lower	Upper
55	100		
56	13.3	7.9	14.7
45	9.0	6.6	12.2
99	5.7	6.2	11.6#

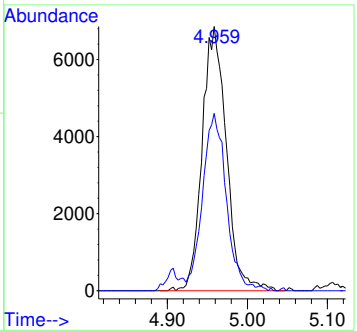


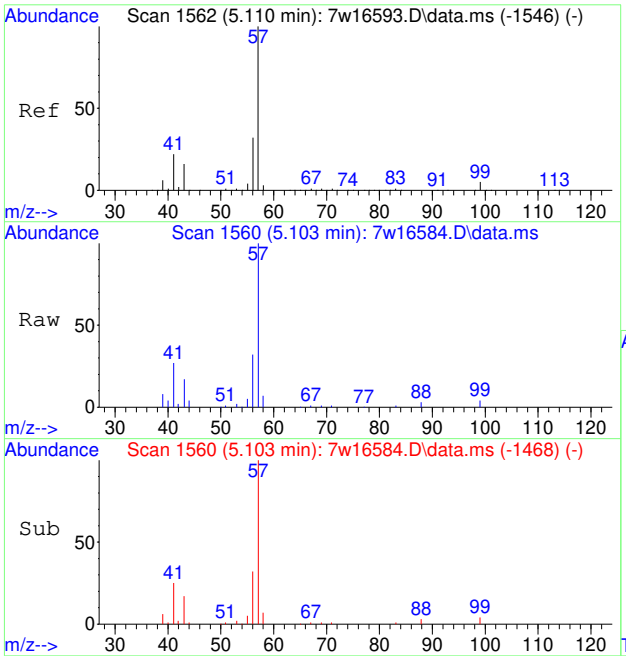


#59
BROMODICHLOROMETHANE
Concen: 0.46 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14412

Ion	Ratio	Lower	Upper
83	100		
85	65.8	44.9	83.5

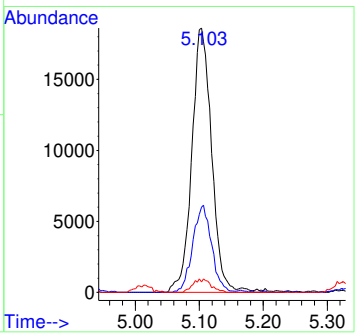


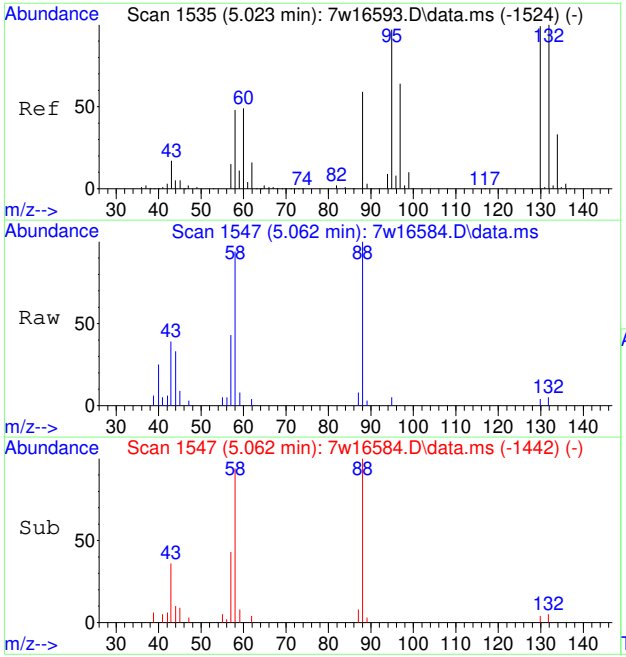


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 40435

Ion	Ratio	Lower	Upper
57	100		
56	31.0	24.4	45.2
99	4.6	5.2	9.6#

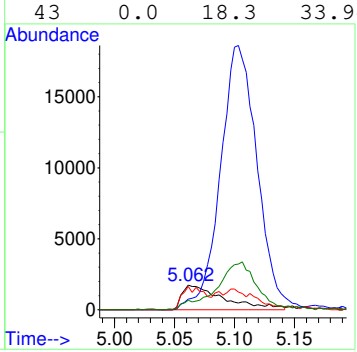


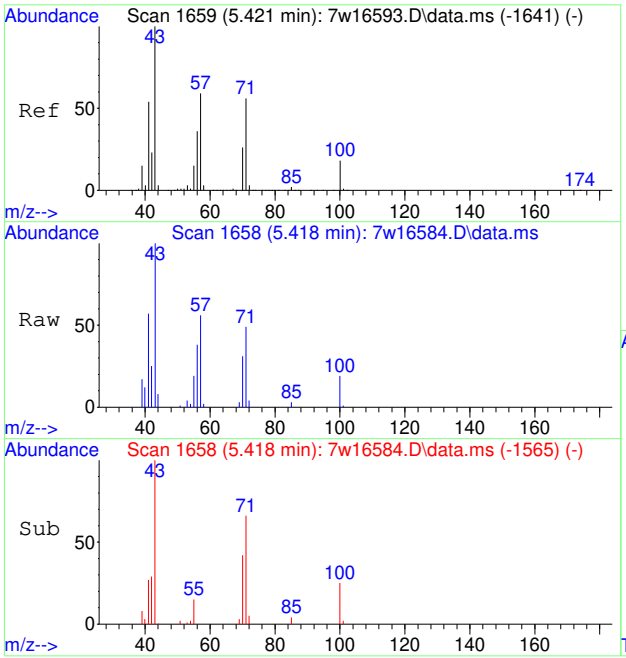


#61
1,4-DIOXANE
Concen: 0.45 PPBV
RT: 5.062 min Scan# 1547
Delta R.T. 0.039 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 88 Resp: 4245

Ion	Ratio	Lower	Upper
88	100		
57	0.0	13.1	24.3#
58	47.1	39.1	72.5
43	0.0	18.3	33.9#

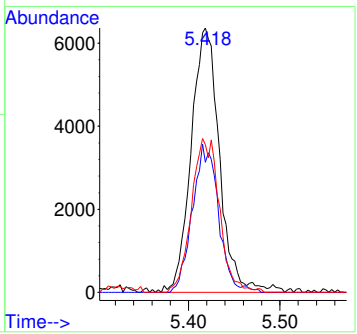


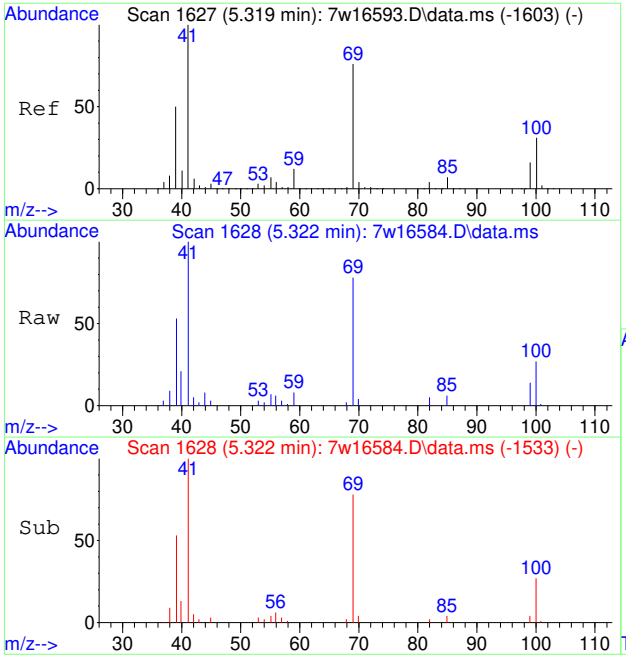


#62
HEPTANE
Concen: 0.52 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 13738

Ion	Ratio	Lower	Upper
43	100		
71	51.3	45.0	83.6
57	57.2	37.2	69.0

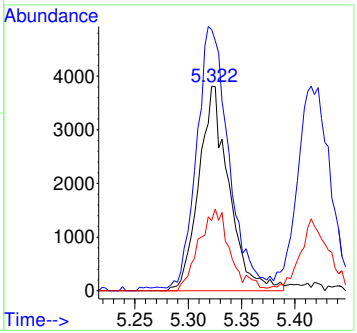


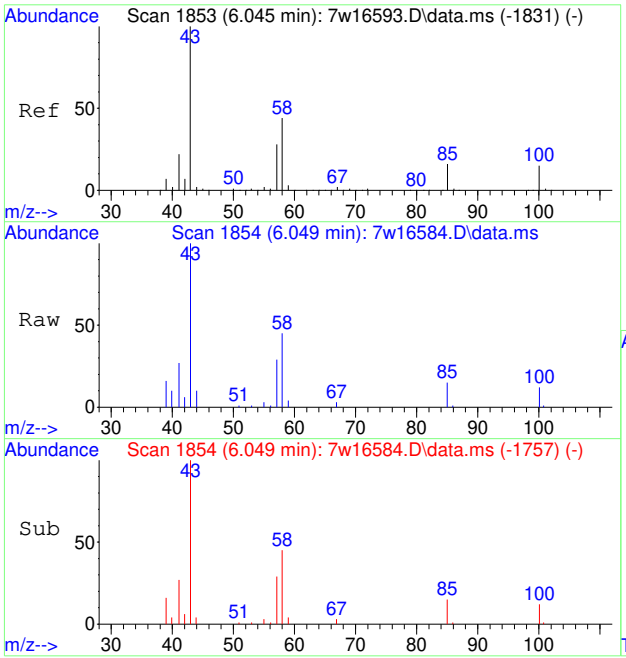


#63
METHYL METHACRYLATE
Concen: 0.49 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 7482

Ion	Ratio	Lower	Upper
69	100		
41	138.4	84.3	156.5
100	41.6	30.8	57.2

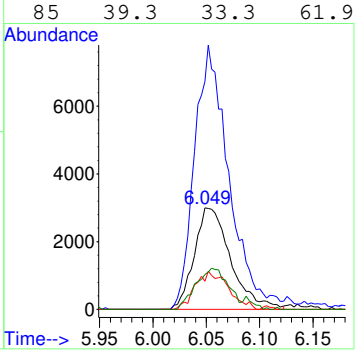


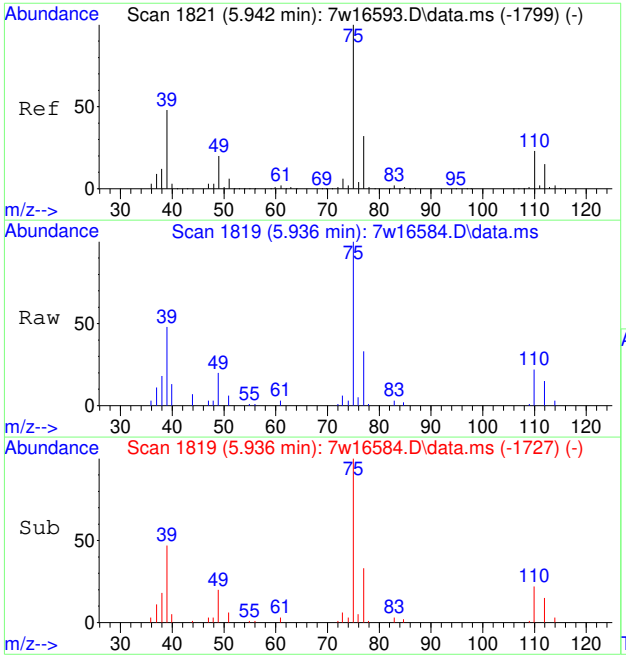


#64
METHYL ISOBUTYL KETONE
Concen: 0.46 PPBV
RT: 6.049 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 7119

Ion	Ratio	Lower	Upper
58	100		
43	253.5	193.8	360.0
100	34.7	32.8	60.8
85	39.3	33.3	61.9

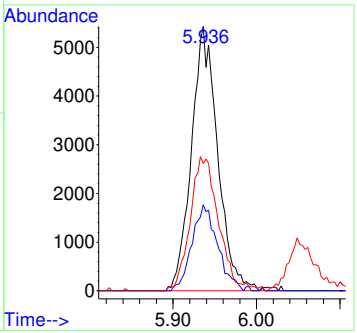


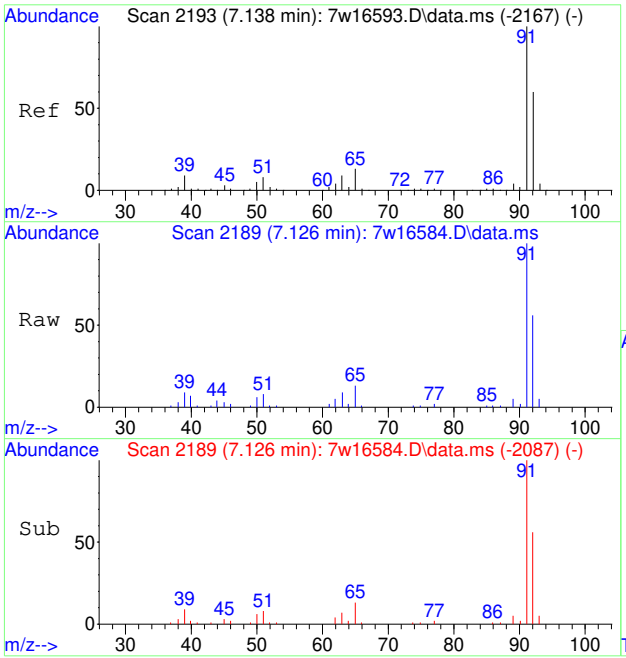


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.45 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 11946

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.0	40.8
39	54.5	38.5	71.5

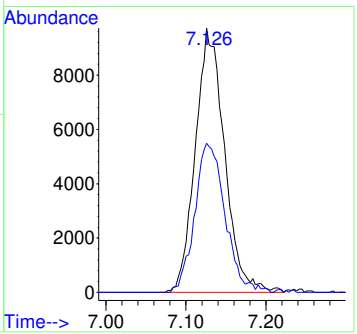


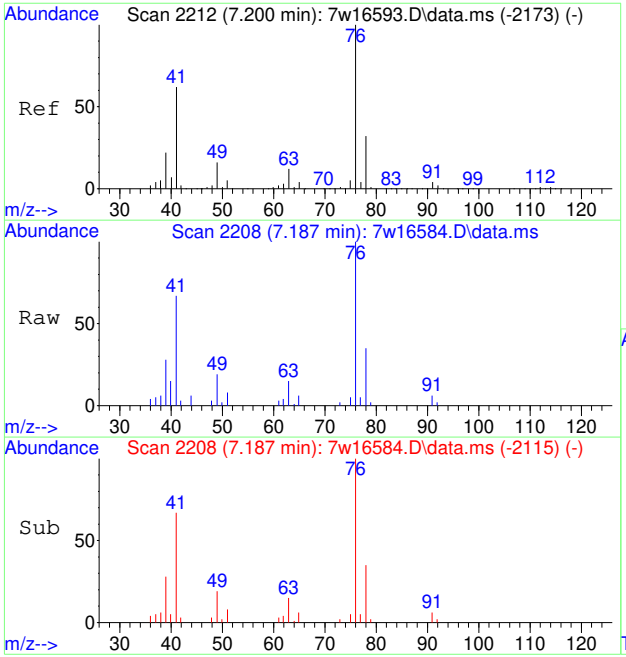


#66
TOLUENE
Concen: 0.51 PPBV
RT: 7.126 min Scan# 2189
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 24682

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

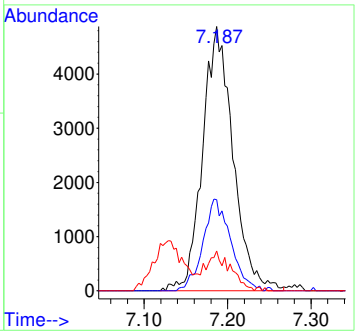


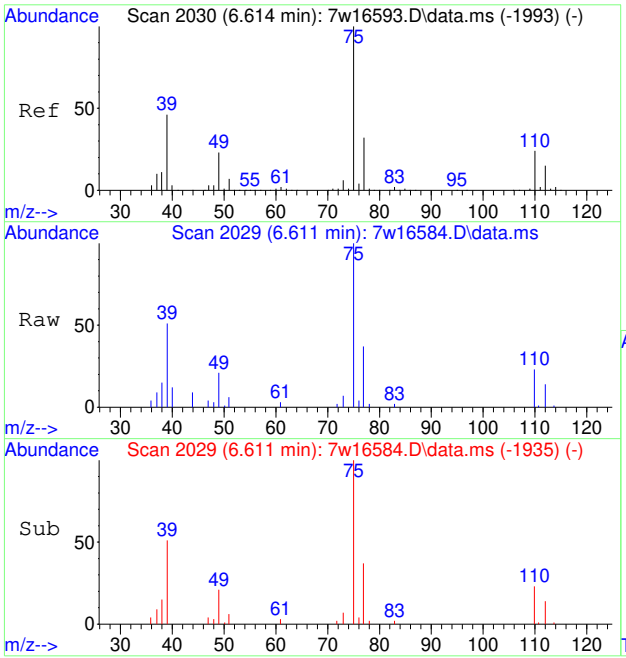


#67
1,3-DICHLOROPROPANE
Concen: 0.50 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 12380

Ion	Ratio	Lower	Upper
76	100		
78	31.6	22.1	41.1
63	13.2	8.0	14.8

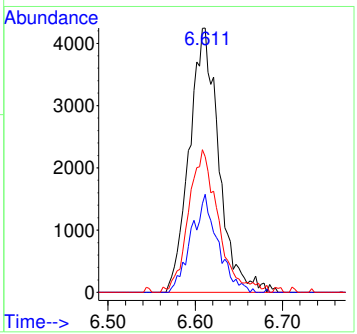


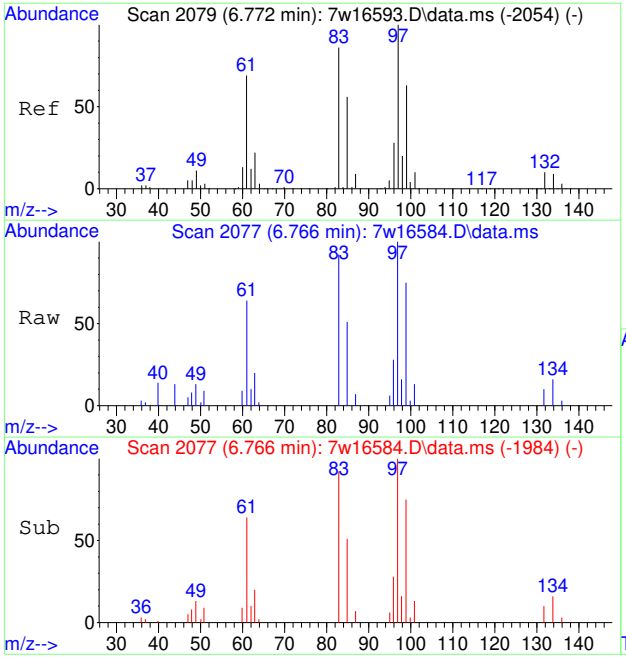


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.41 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 10011

Ion	Ratio	Lower	Upper
75	100		
77	33.6	22.5	41.7
39	55.1	37.2	69.0

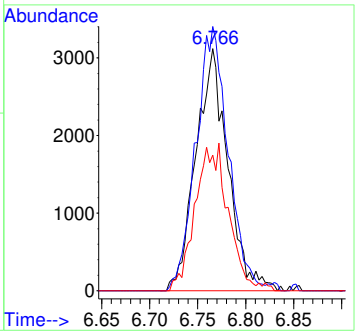


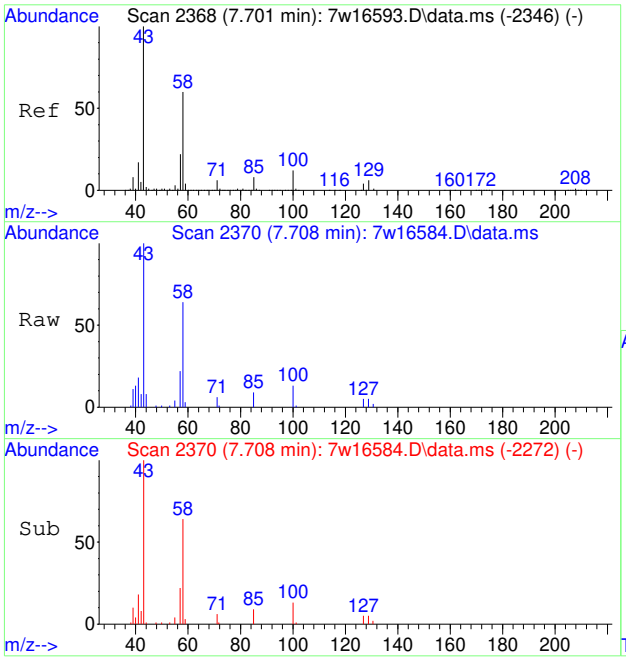


#69
1,1,2-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 7248

Ion	Ratio	Lower	Upper
83	100		
97	111.0	86.7	160.9
85	62.6	45.5	84.5

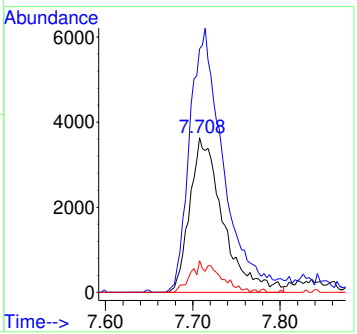


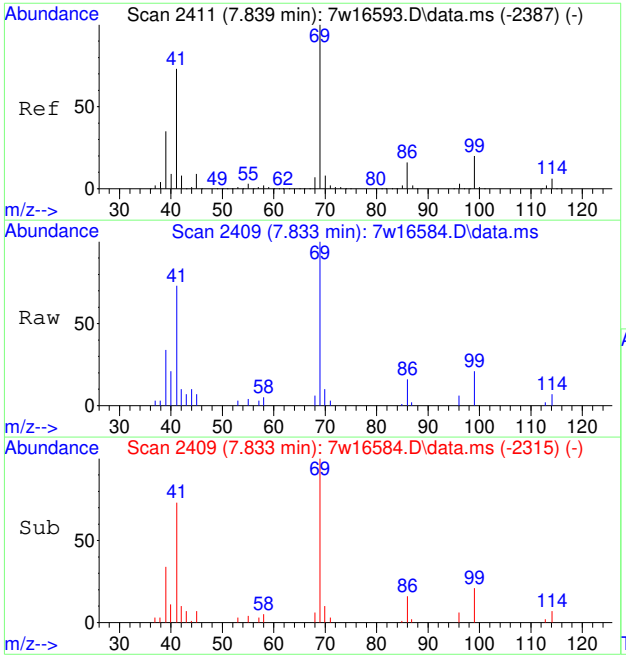


#70
2-HEXANONE
Concen: 0.47 PPBV
RT: 7.708 min Scan# 2370
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 9642

Ion	Ratio	Lower	Upper
58	100		
43	173.7	141.7	263.3
100	17.2	18.9	35.1#

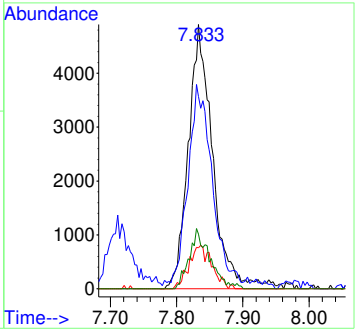


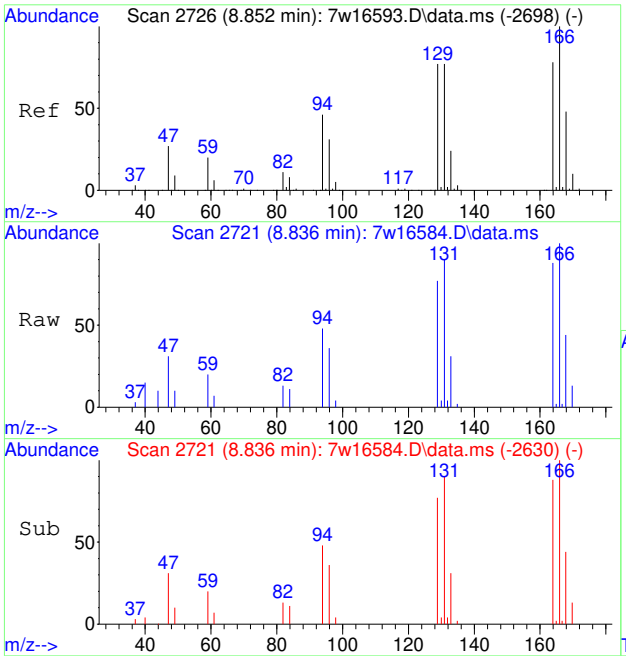


#71
ETHYL METHACRYLATE
Concen: 0.48 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 12576

Ion	Ratio	Lower	Upper
69	100		
41	81.1	49.3	91.6
86	15.5	11.6	21.6
99	19.4	13.4	24.8

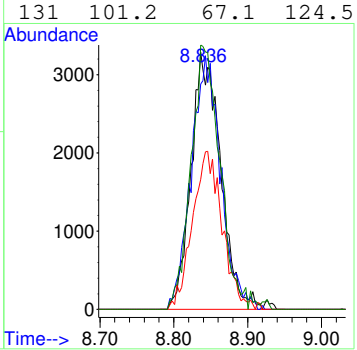


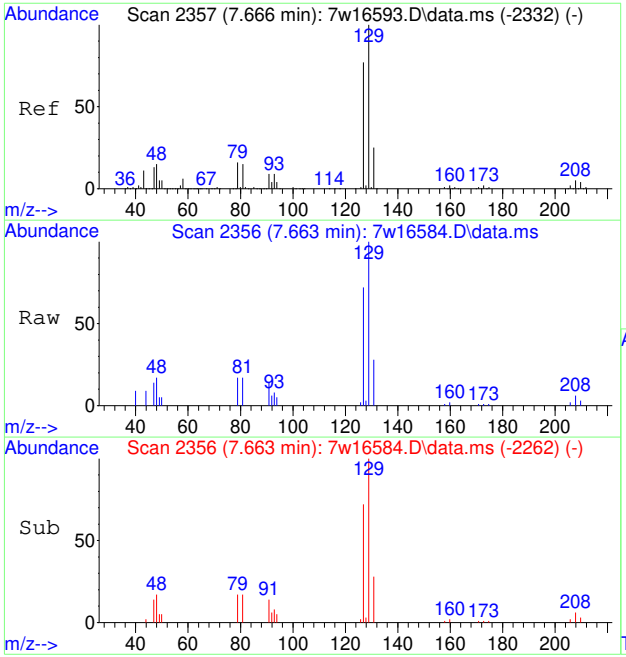


#72
TETRACHLOROETHENE
Concen: 0.52 PPBV
RT: 8.836 min Scan# 2721
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:164 Resp: 9191

Ion	Ratio	Lower	Upper
164	100		
129	97.9	69.7	129.5
168	61.9	43.4	80.6
131	101.2	67.1	124.5

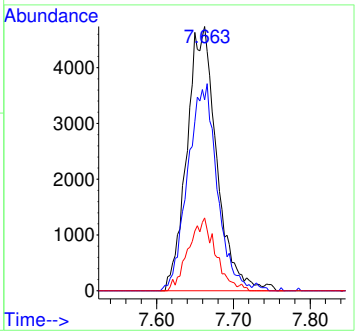


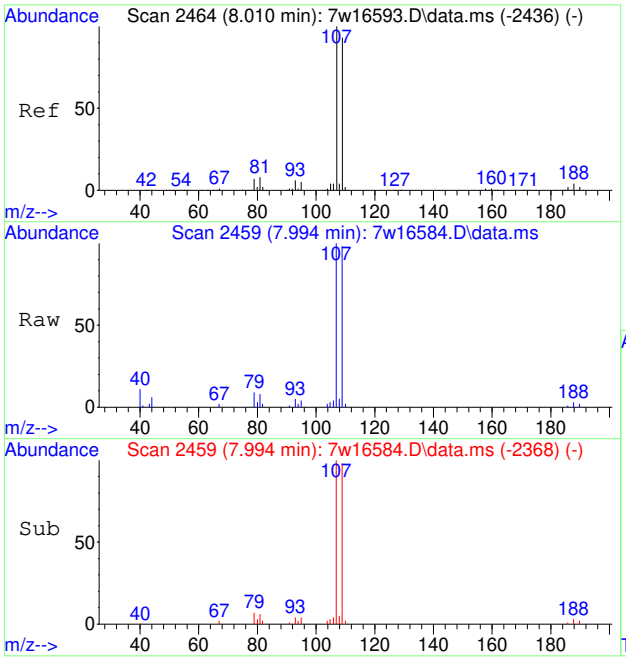


#73
DIBROMOCHLOROMETHANE
Concen: 0.43 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:129 Resp: 12752

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	25.4	16.9	31.3

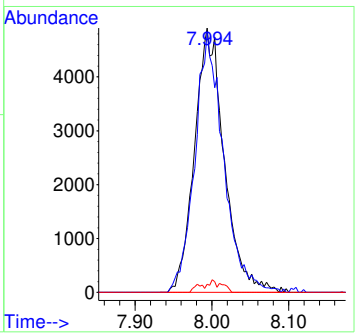


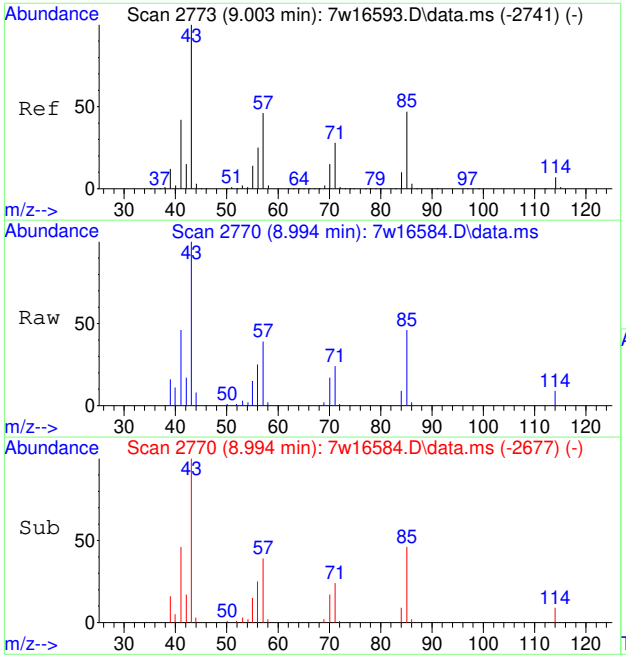


#74
1,2-DIBROMOETHANE
Concen: 0.52 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:107 Resp: 13213

Ion	Ratio	Lower	Upper
107	100		
109	95.1	65.7	122.1
188	3.1	2.4	4.4

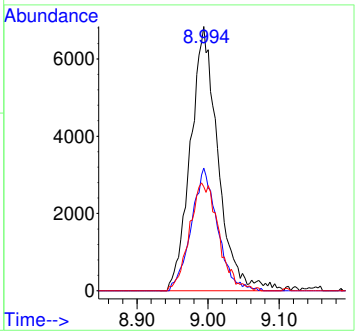


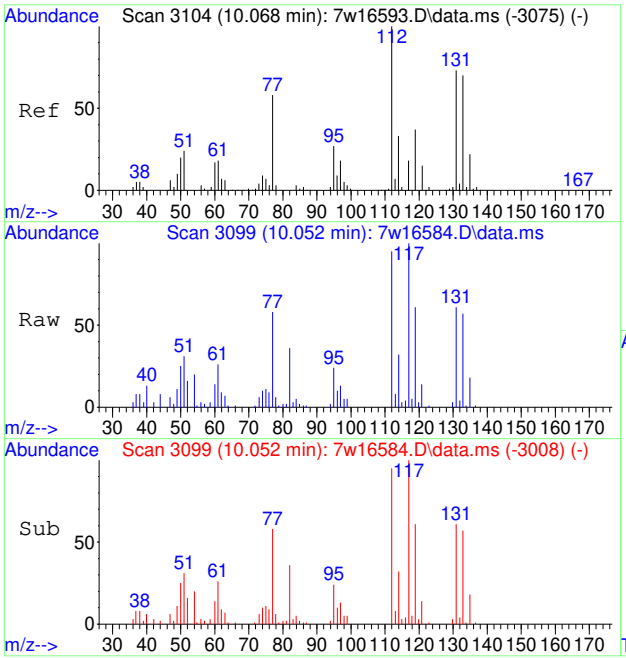


#75
OCTANE
Concen: 0.51 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 18440

Ion	Ratio	Lower	Upper
43	100		
85	44.3	36.5	67.9
57	43.3	27.6	51.2

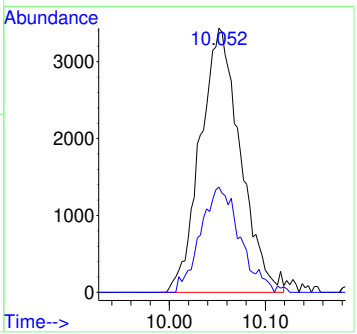


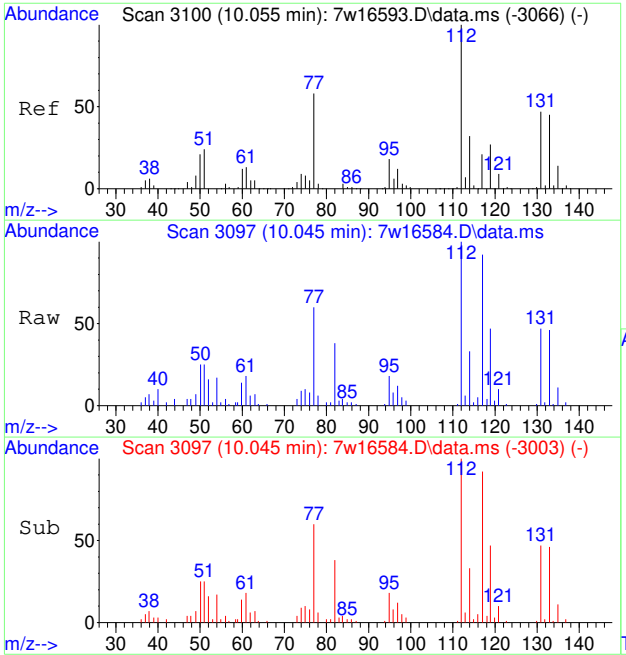


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.47 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:131 Resp: 9977

Ion	Ratio	Lower	Upper
131	100		
95	39.6	23.7	43.9

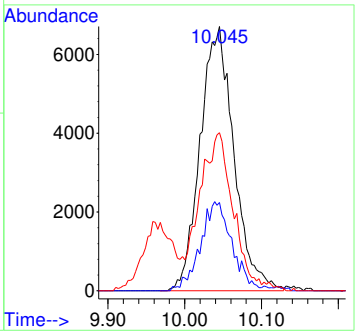


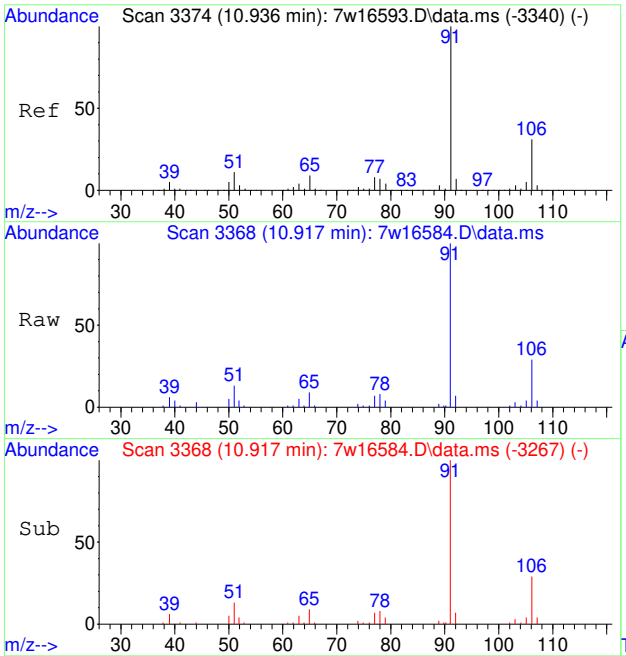


#78
CHLOROBENZENE
Concen: 0.52 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:112 Resp: 20418

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.7	34.4	63.8

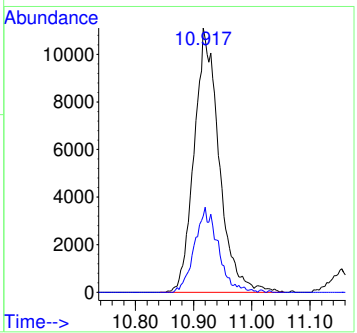


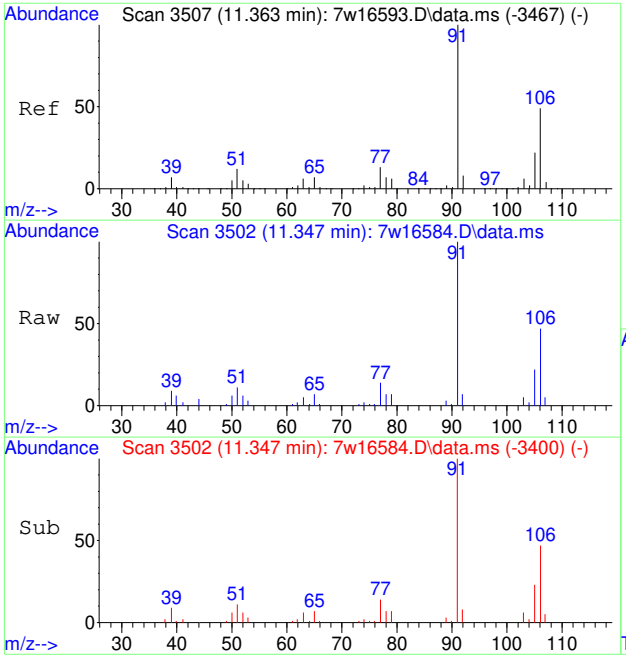


#79
ETHYLBENZENE
Concen: 0.52 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 33108

Ion	Ratio	Lower	Upper
91	100		
106	30.4	2.8	62.8

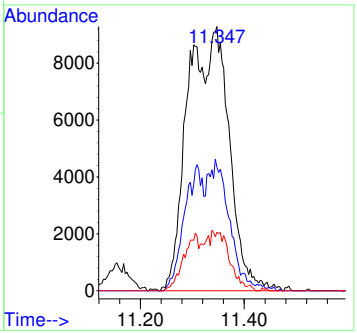


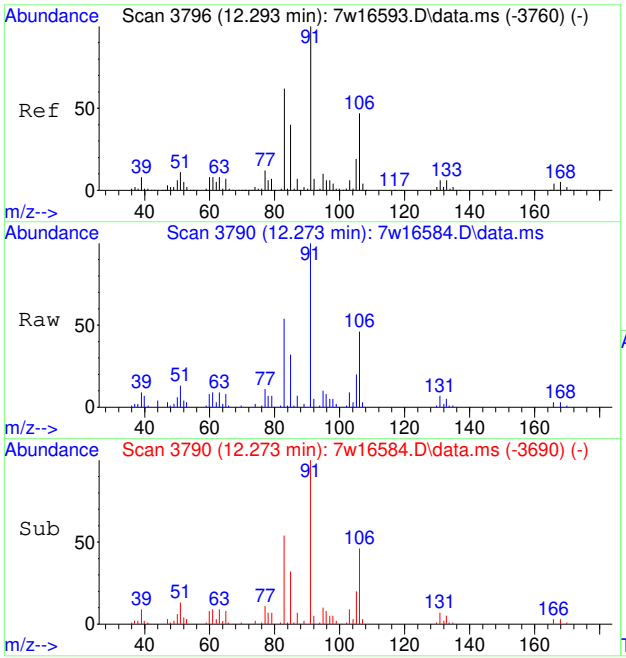


#80
M,P-XYLENE
Concen: 1.00 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 51511

Ion	Ratio	Lower	Upper
91	100		
106	27.3	0.0	58.7
105	12.4	0.0	43.2

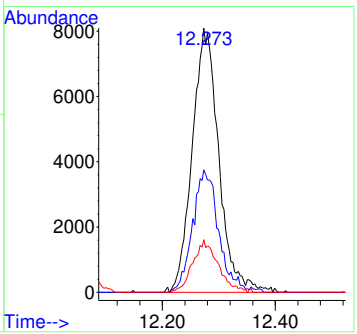


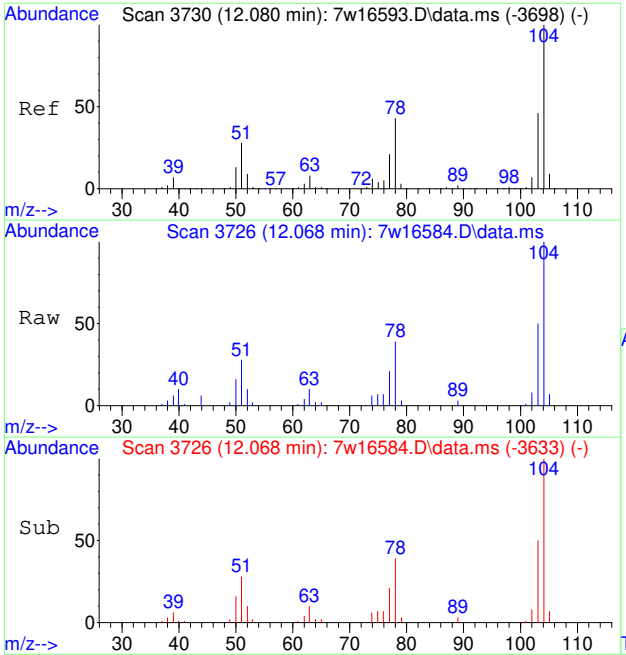


#81
O-XYLENE
Concen: 0.52 PPBV
RT: 12.273 min Scan# 3790
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 26468

Ion	Ratio	Lower	Upper
91	100		
106	46.3	34.1	63.3
105	19.9	14.6	27.2

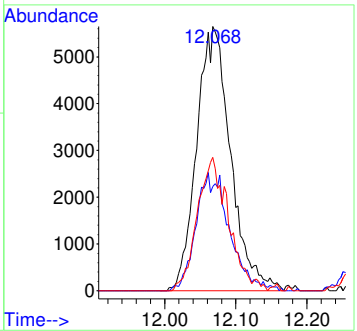


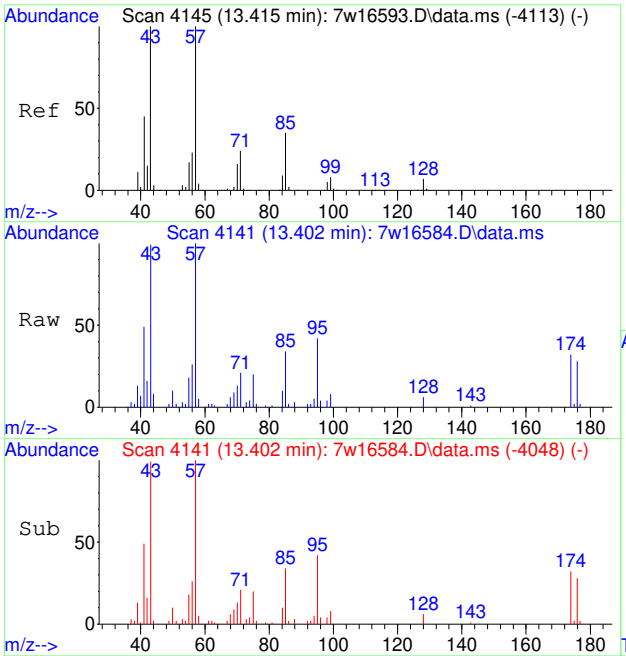


#82
STYRENE
Concen: 0.48 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:104 Resp: 18750

Ion	Ratio	Lower	Upper
104	100		
78	44.1	25.3	46.9
103	47.1	33.2	61.7

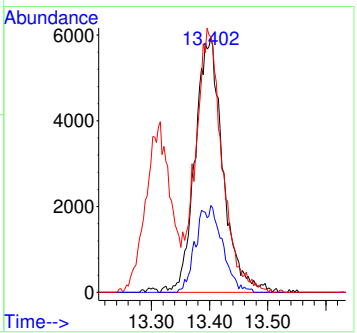


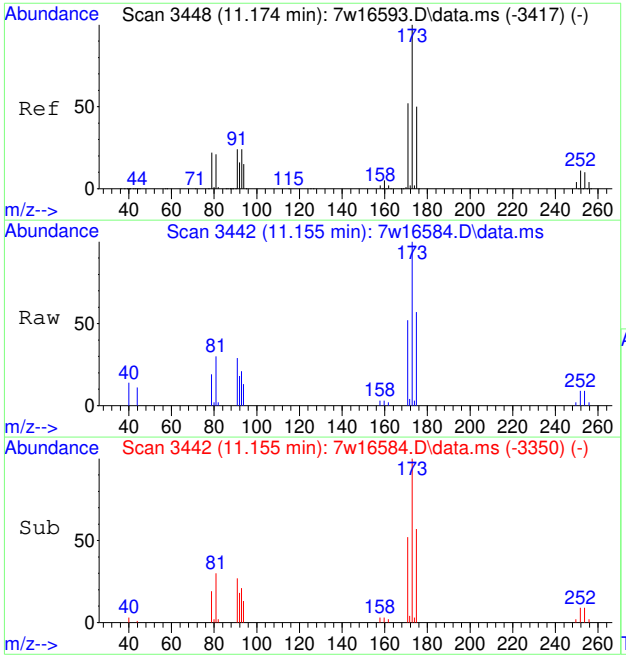


#83
NONANE
Concen: 0.51 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 19802

Ion	Ratio	Lower	Upper
43	100		
85	32.5	27.6	51.2
57	100.6	56.4	104.7

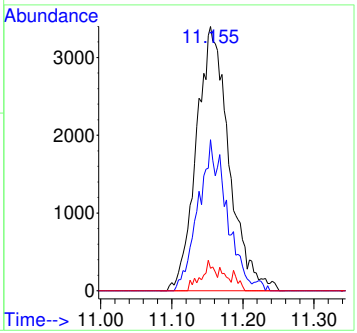


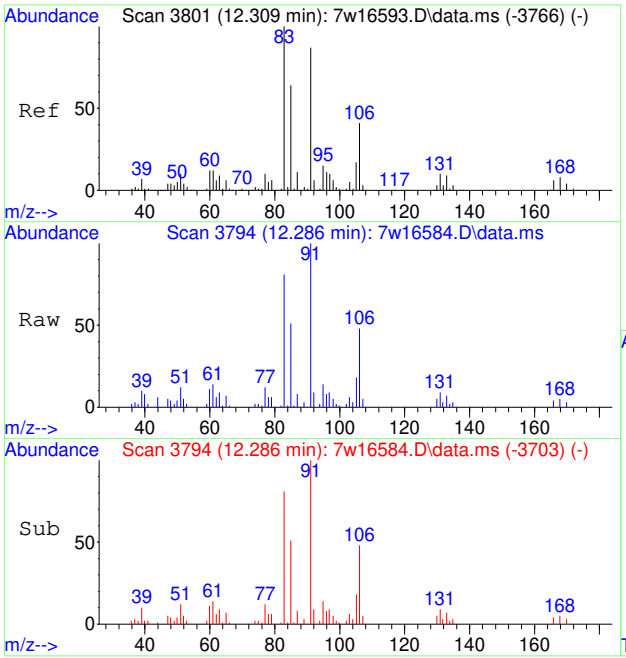


#84
BROMOFORM
Concen: 0.42 PPBV
RT: 11.155 min Scan# 3442
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:173 Resp: 10827

Ion	Ratio	Lower	Upper
173	100		
175	51.0	33.0	61.4
254	8.1	5.9	10.9

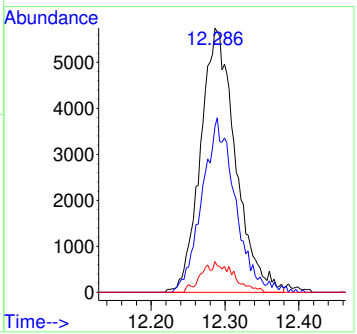


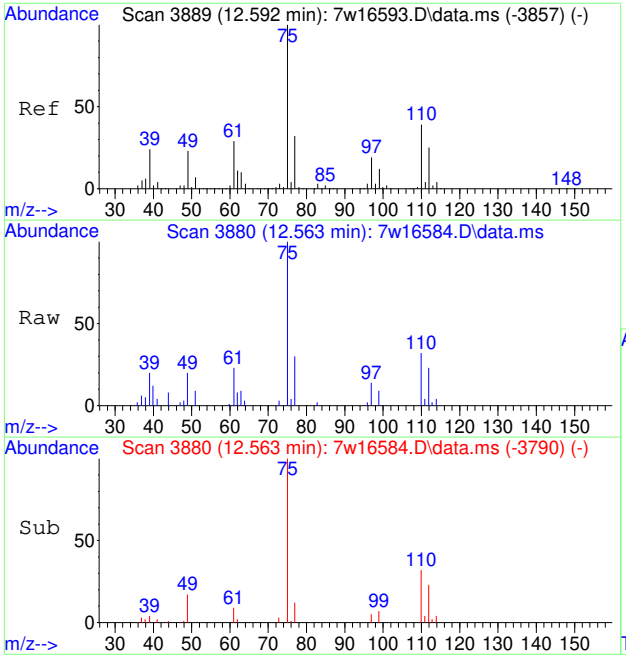


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.51 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 18876

Ion	Ratio	Lower	Upper
83	100		
85	63.1	44.6	82.8
131	10.6	8.0	14.8

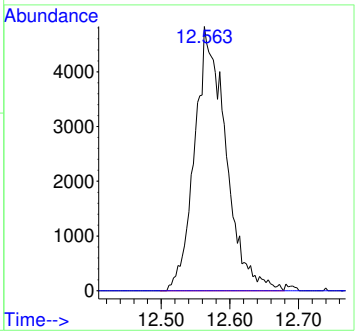


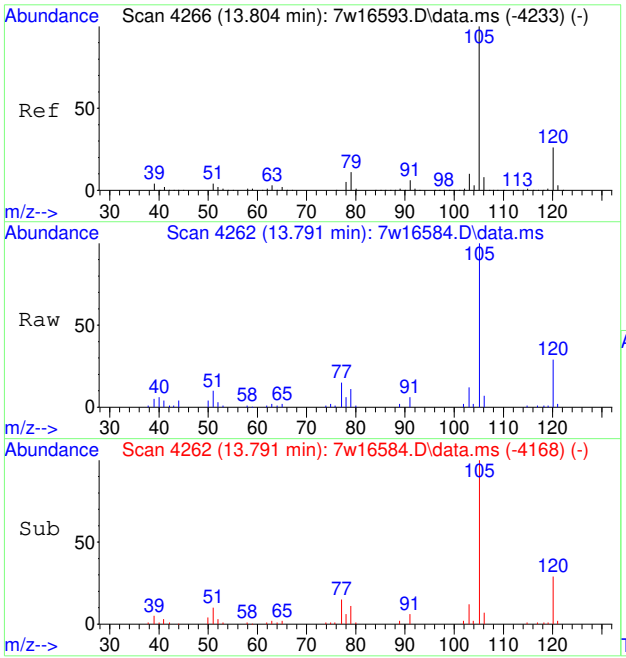


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.53 PPBV
RT: 12.563 min Scan# 3880
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 15262

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

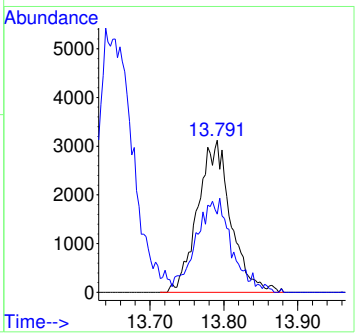


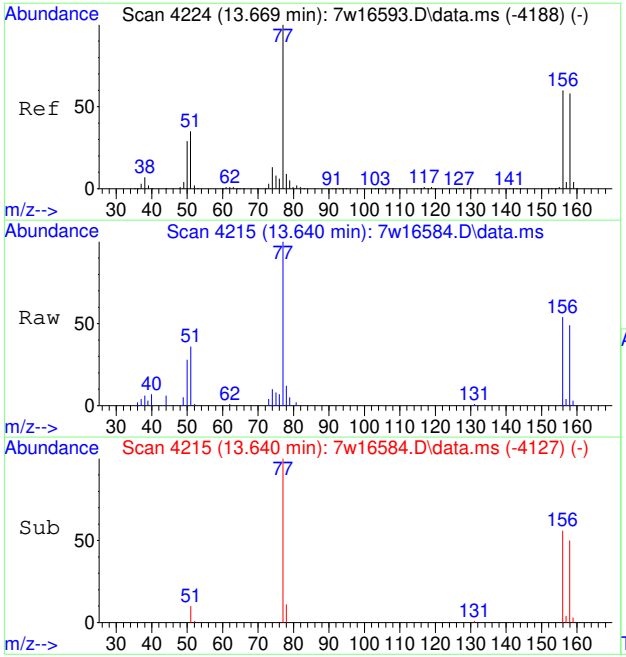


#88
ISOPROPYLBENZENE
Concen: 0.50 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9713

Ion	Ratio	Lower	Upper
120	100		
77	65.8	36.0	67.0

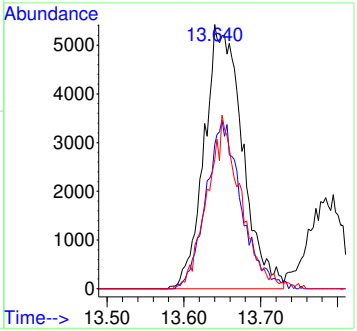


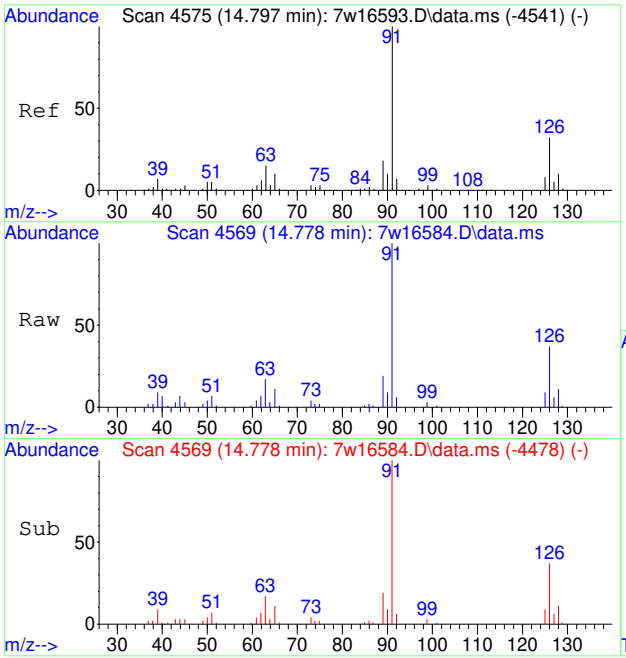


#89
BROMOBENZENE
Concen: 0.51 PPBV
RT: 13.640 min Scan# 4215
Delta R.T. -0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 77 Resp: 18640

Ion	Ratio	Lower	Upper
77	100		
156	59.5	57.9	107.5
158	57.9	55.7	103.5

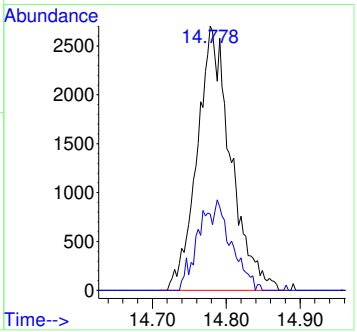


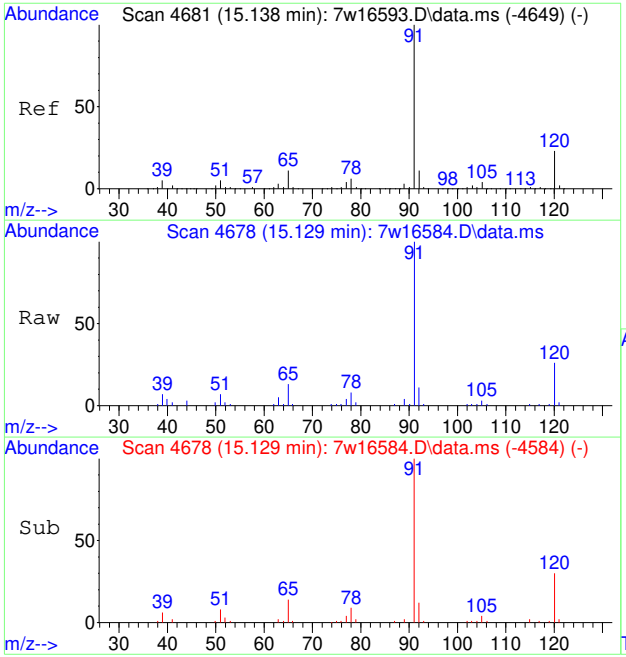


#90
2-CHLOROTOLUENE
Concen: 0.47 PPBV
RT: 14.778 min Scan# 4569
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:126 Resp: 8526

Ion	Ratio	Lower	Upper
126	100		
128	17.9	22.7	42.1#

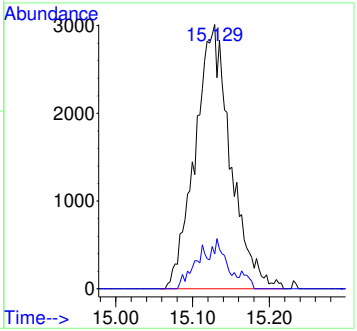


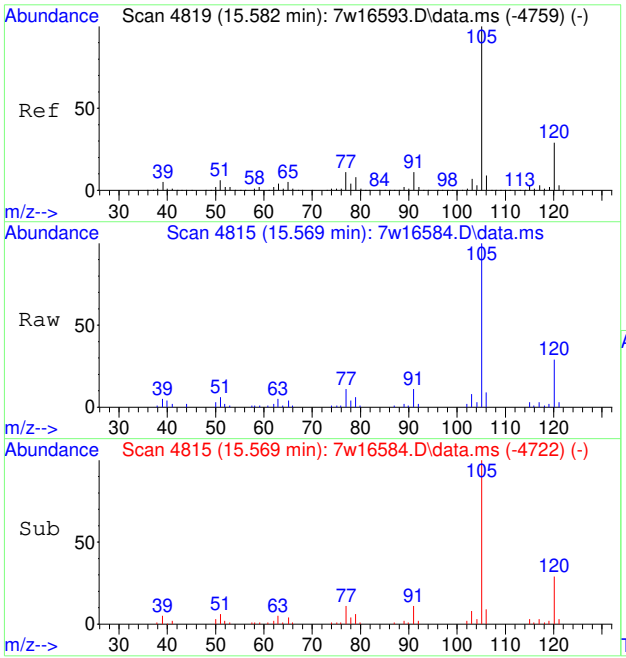


#91
N-PROPYLBENZENE
Concen: 0.46 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9669

Ion	Ratio	Lower	Upper
120	100		
105	15.8	10.6	19.6

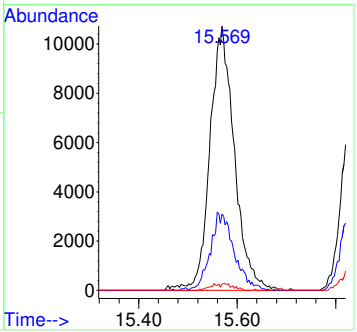


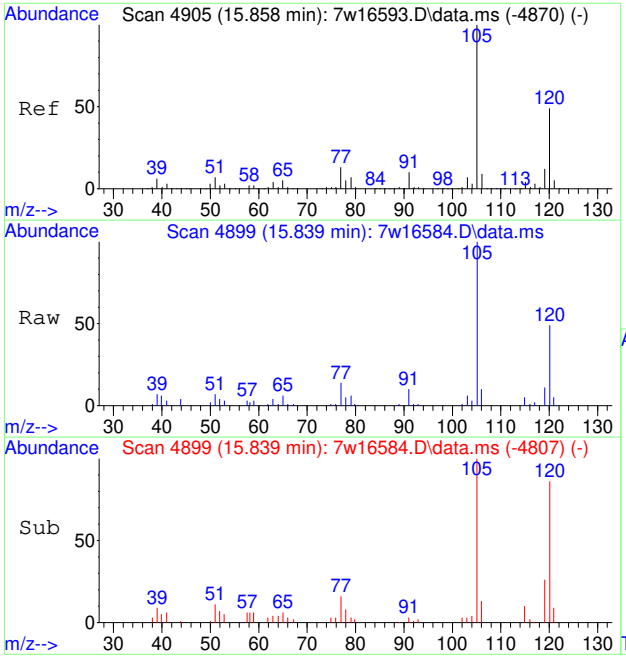


#92
4-ETHYLTOLUENE
Concen: 0.48 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 36862

Ion	Ratio	Lower	Upper
105	100		
120	0.0	21.8	40.4#
119	1.2	1.7	3.1#

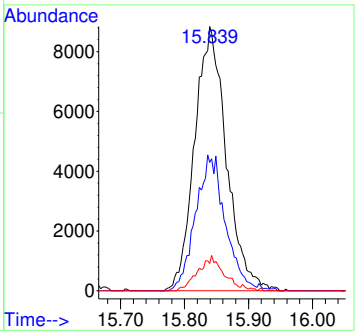


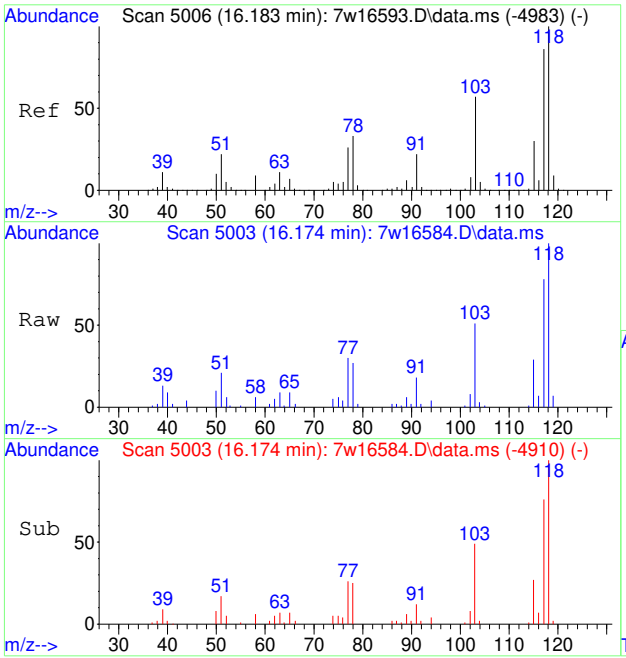


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.48 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30468

Ion	Ratio	Lower	Upper
105	100		
120	48.5	37.2	69.2
91	11.0	7.5	13.9

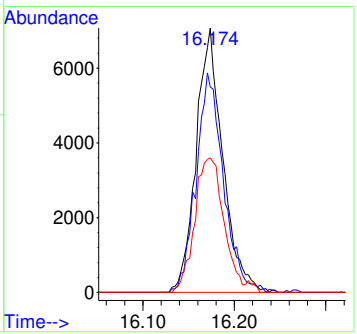


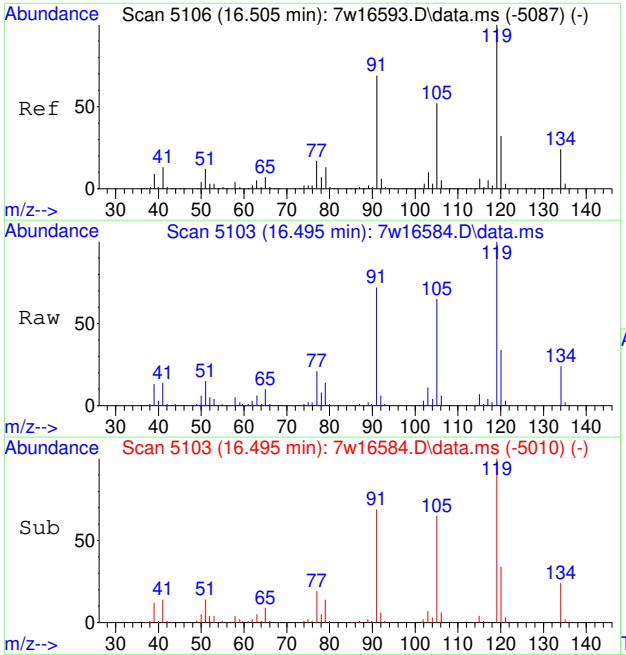


#94
ALPHA-METHYLSTYRENE
Concen: 0.44 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:118 Resp: 14307

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	56.7	36.2	67.2

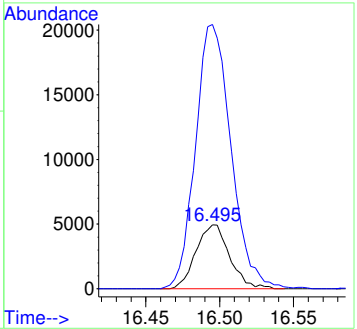


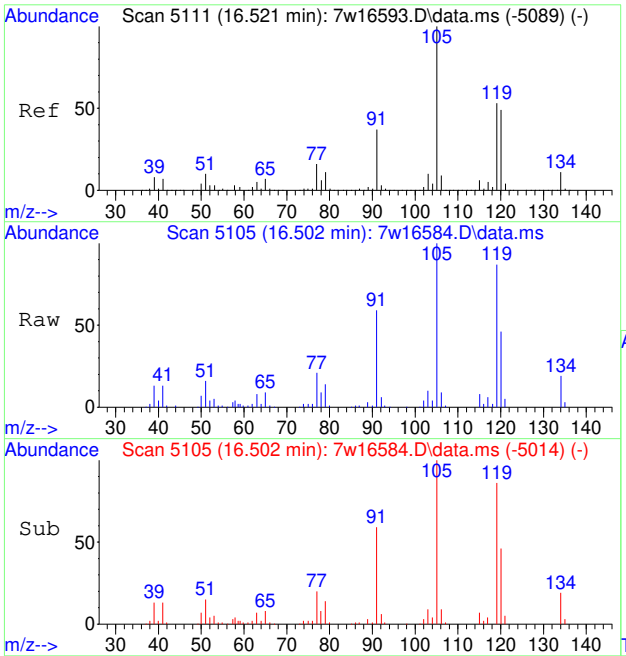


#95
TERT-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 7825

Ion	Ratio	Lower	Upper
134	100		
119	437.4	307.9	571.7

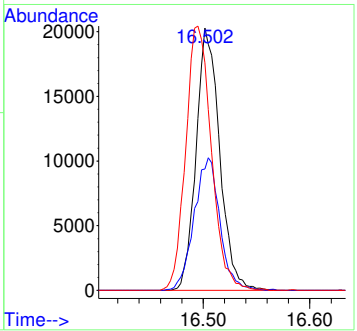


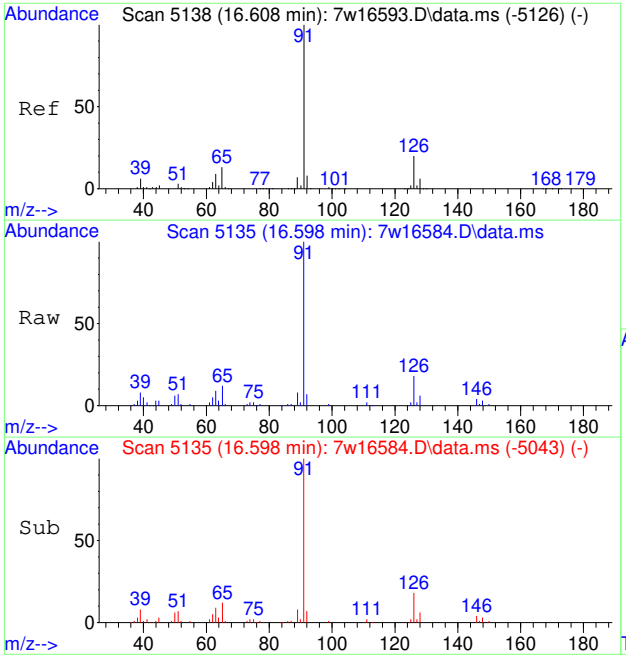


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.502 min Scan# 5105
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 31128

Ion	Ratio	Lower	Upper
105	100		
120	55.2	40.9	75.9
119	109.9	78.0	144.8

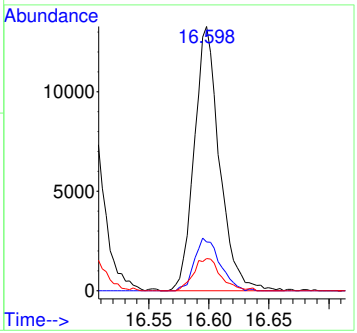


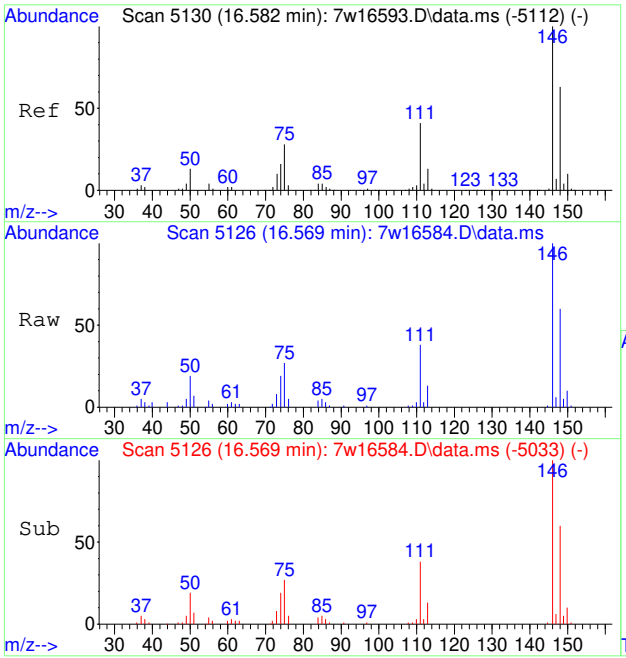


#97
BENZYL CHLORIDE
Concen: 0.35 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 19459

Ion	Ratio	Lower	Upper
91	100		
126	20.1	17.2	32.0
65	13.2	7.3	13.7

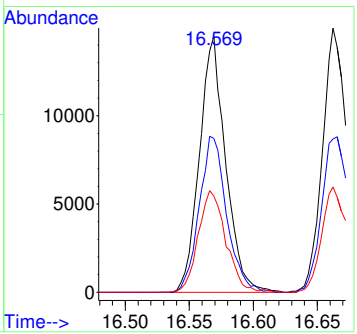


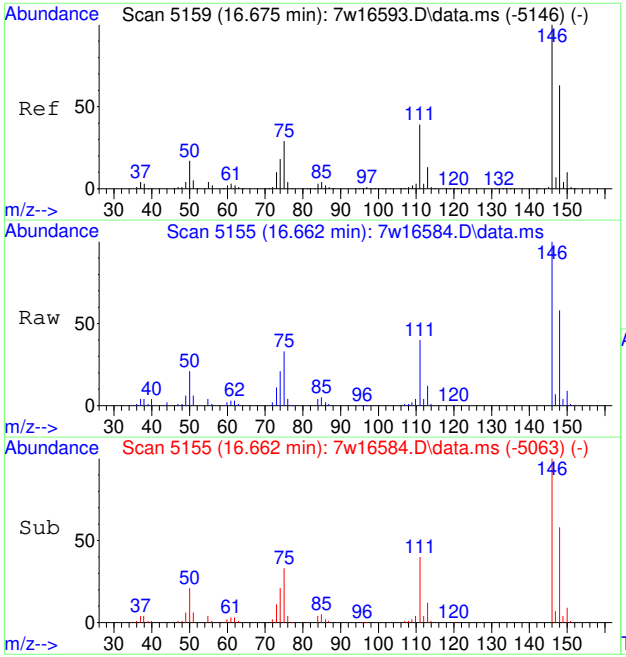


#98
M-DICHLOROBENZENE
Concen: 0.48 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20646

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	42.0	25.4	47.2

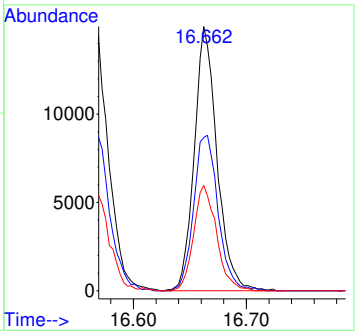


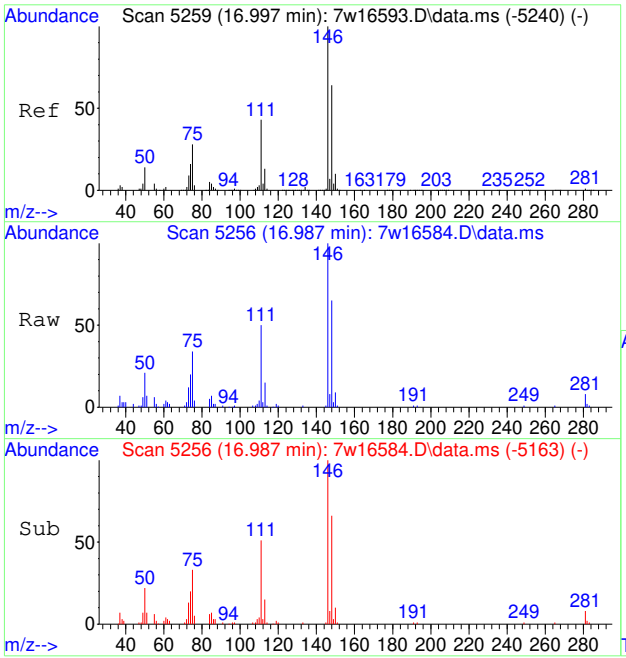


#99
P-DICHLOROBENZENE
Concen: 0.49 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20868

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	40.2	24.8	46.1

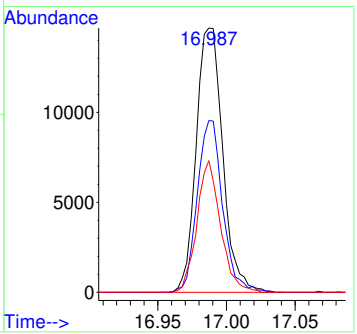


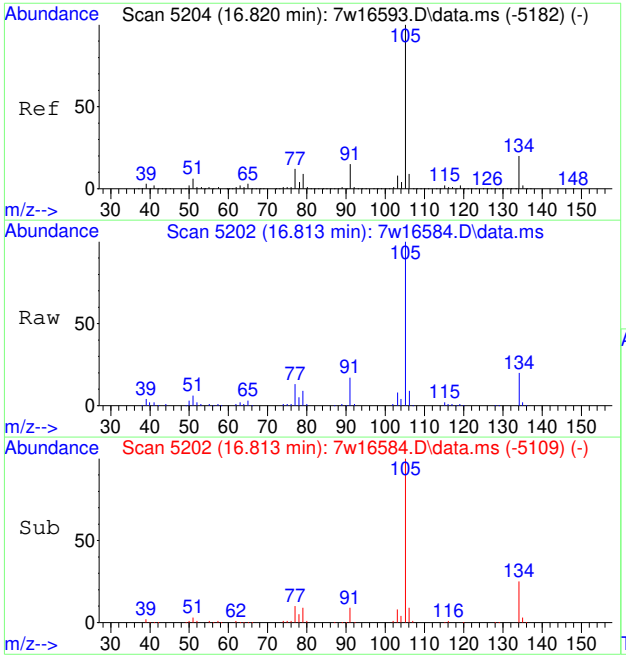


#100
O-DICHLOROBENZENE
Concen: 0.50 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 19799

Ion	Ratio	Lower	Upper
146	100		
148	62.1	44.6	82.8
111	44.3	26.9	50.1

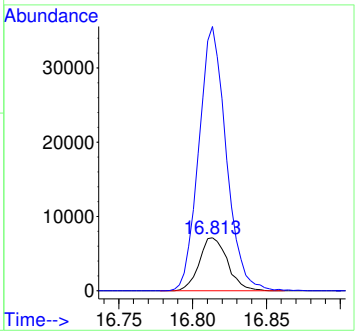


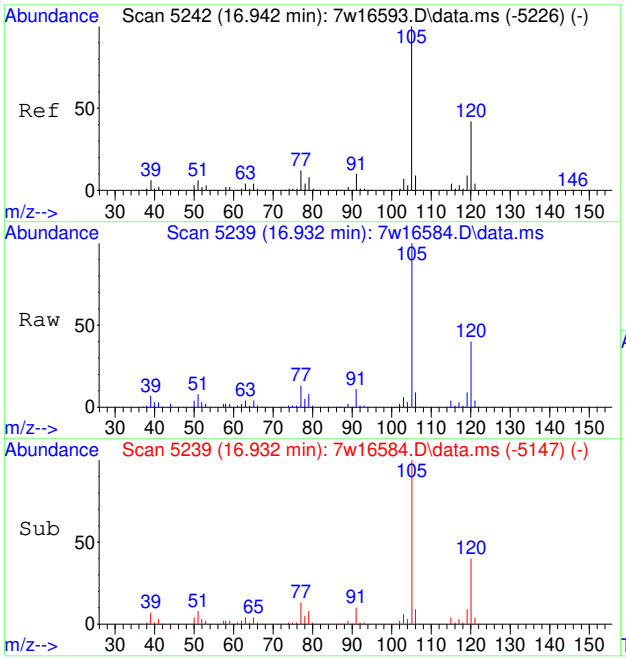


#101
SEC-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9482

Ion	Ratio	Lower	Upper
134	100		
105	484.9	314.4	584.0

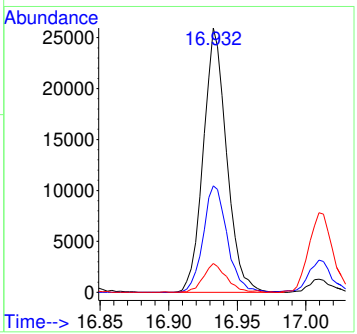


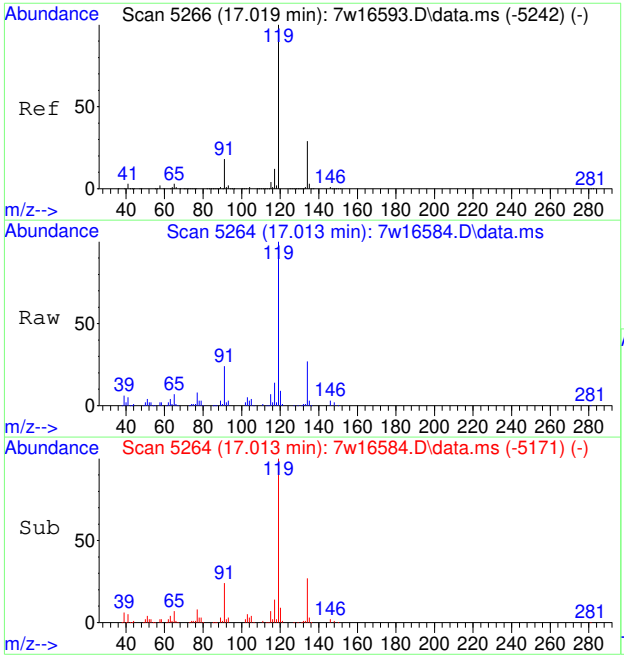


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30663

Ion	Ratio	Lower	Upper
105	100		
120	41.5	31.9	59.2
91	11.0	7.3	13.5

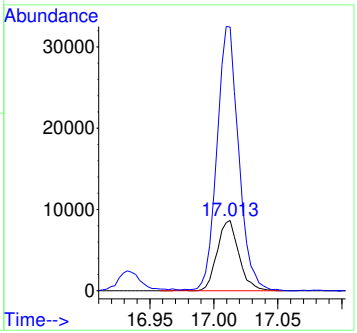


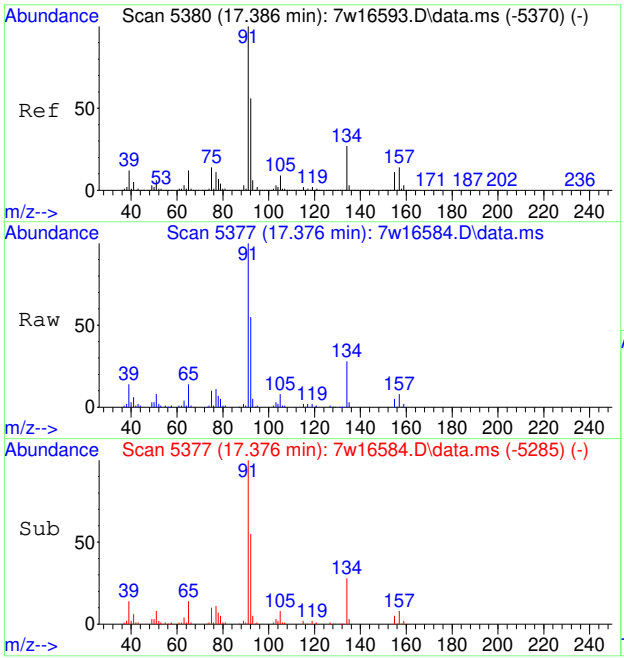


#103
P-ISOPROPYLTOLUENE
Concen: 0.49 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 10237

Ion	Ratio	Lower	Upper
134	100		
119	376.8	253.7	471.3

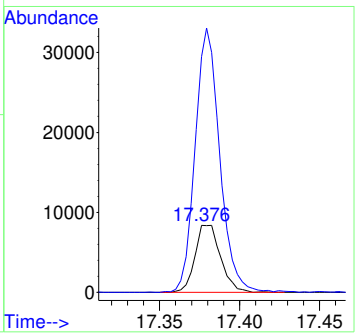


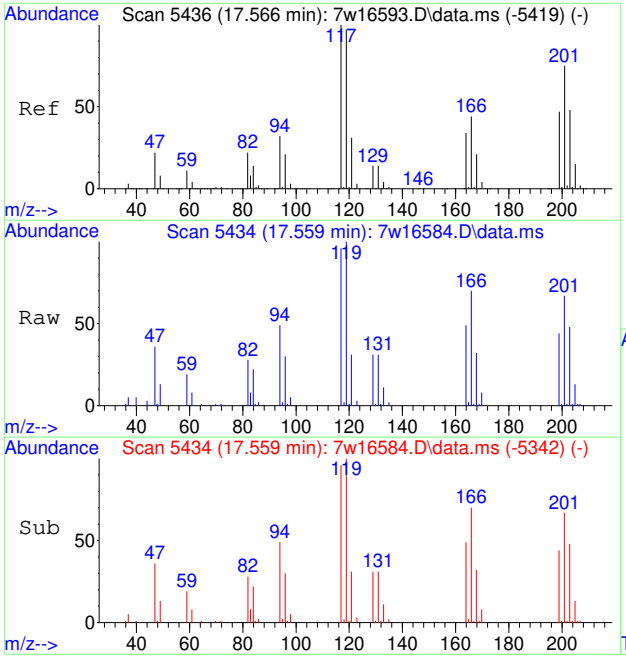


#104
N-BUTYLBENZENE
Concen: 0.47 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9347

Ion	Ratio	Lower	Upper
134	100		
91	380.4	231.1	429.1

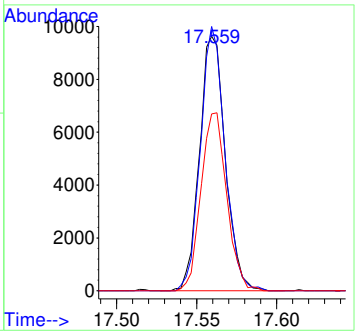


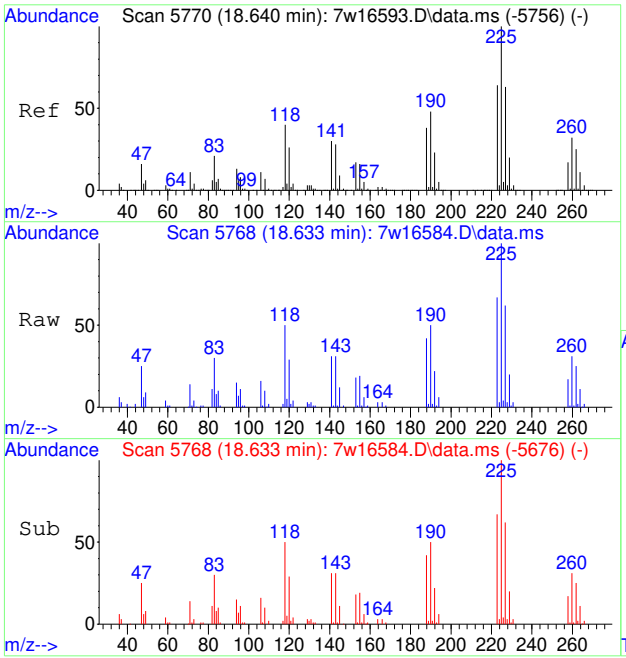


#105
HEXACHLOROETHANE
Concen: 0.44 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 10816

Ion	Ratio	Lower	Upper
117	100		
119	98.3	68.3	126.9
201	69.8	45.9	85.3

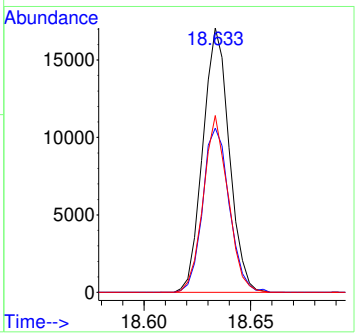


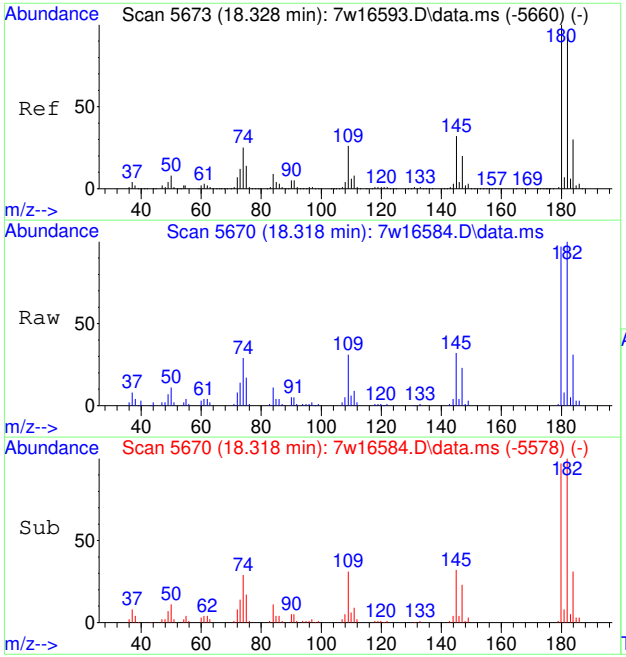


#106
HEXACHLOROBUTADIENE
Concen: 0.54 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:225 Resp: 14662

Ion	Ratio	Lower	Upper
225	100		
227	62.8	44.4	82.5
223	62.8	44.7	83.1

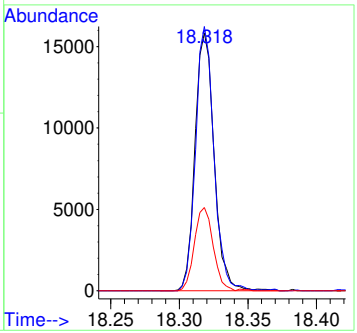


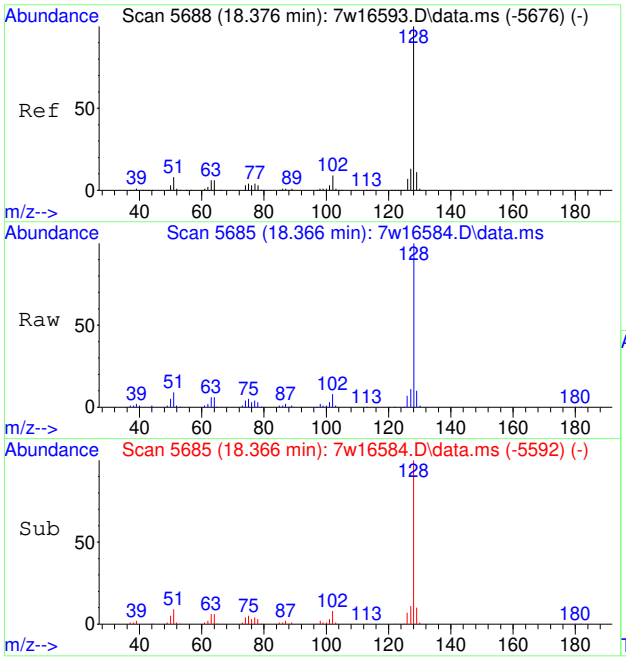


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.44 PPBV
RT: 18.318 min Scan# 5670
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:180 Resp: 15355

Ion	Ratio	Lower	Upper
180	100		
182	98.7	66.8	124.0
145	32.0	23.1	42.9

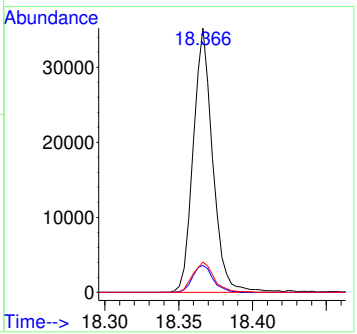


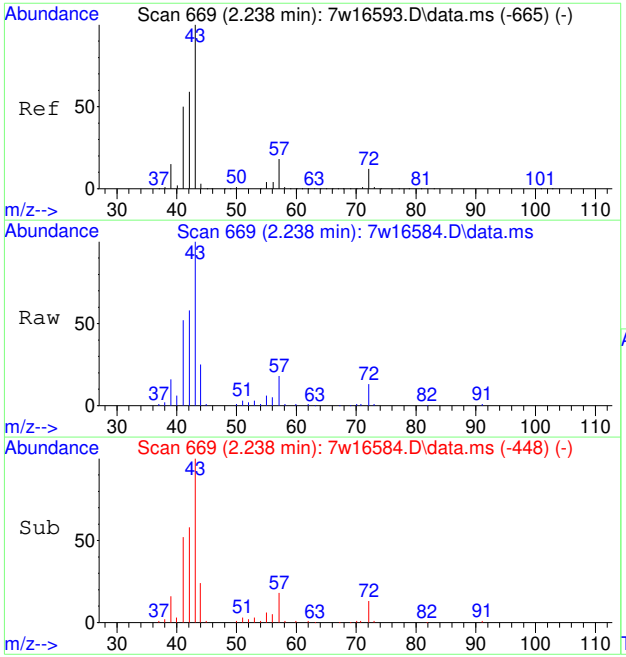


#108
NAPHTHALENE
Concen: 0.40 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:128 Resp: 32243

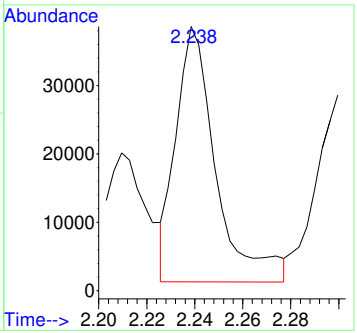
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.4	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.69 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:TIC Resp: 43130



7.7.16

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16584.D
Injection Time: 08/07/25 09:13

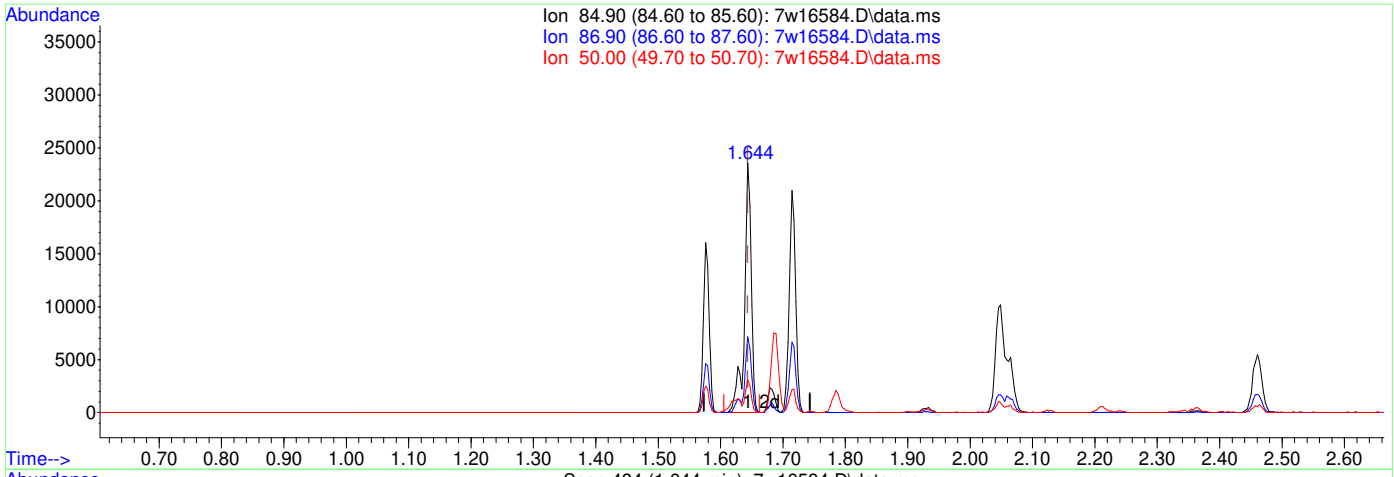
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

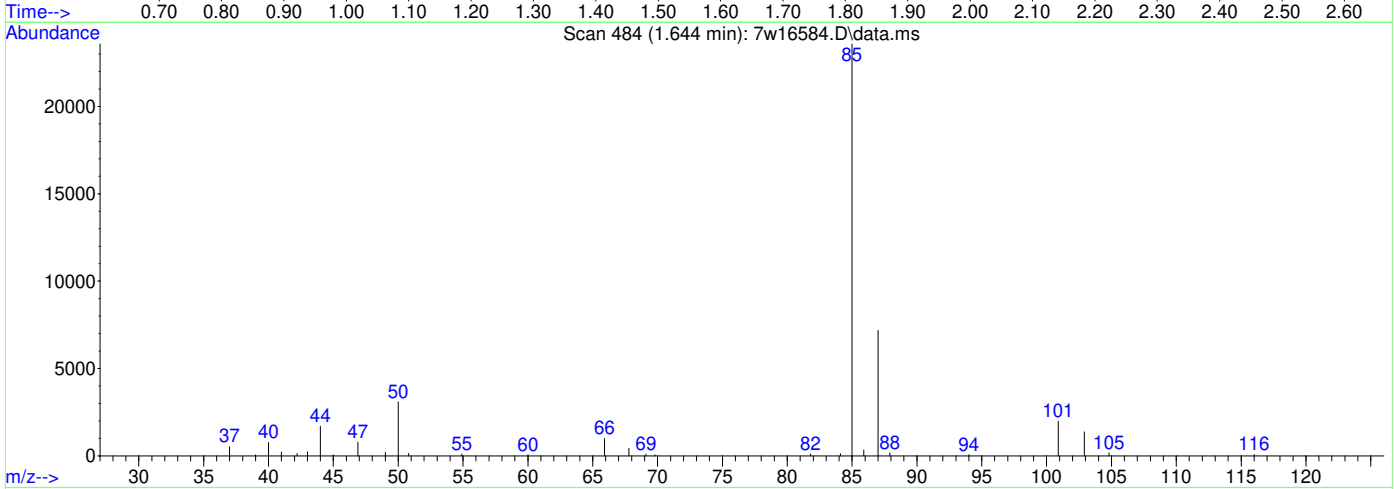
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.52PPBV

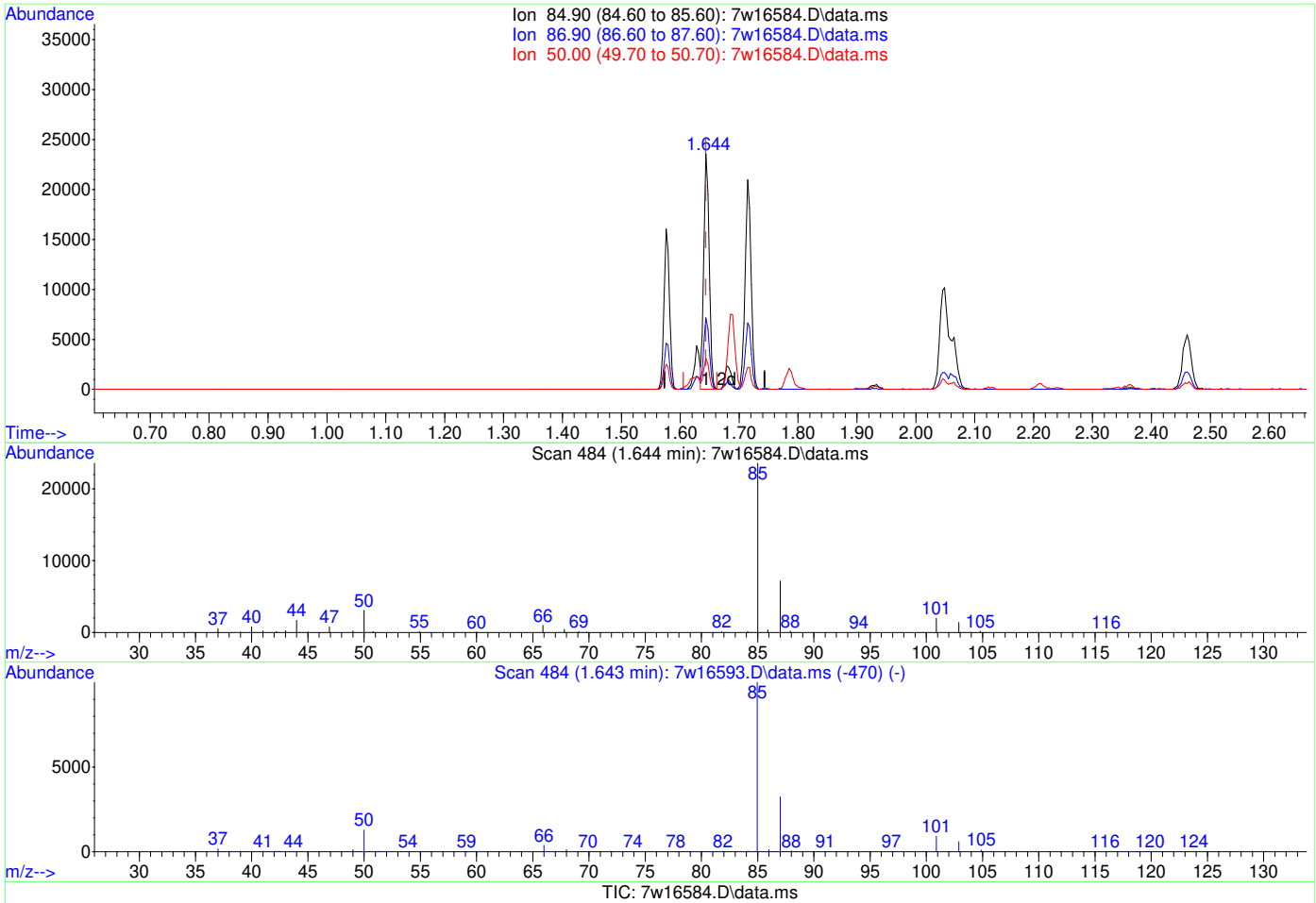
response 17704

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.09
50.00	17.30	20.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.44PPBV m

response 14890

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.16
50.00	17.30	23.88#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110309	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	561645	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511167	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110309	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415987	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	71924	5.05	PPBV		88
3) FREON 152A	1.605	65	34756	5.11	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	16247	5.26	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	77653	5.13	PPBV		72
6) DICHLORODIFLUOROMETHANE	1.643	85	143733m	4.36	PPBV		
7) PROPYLENE	1.627	41	44998	5.15	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	131345	5.33	PPBV		99
9) FREON 114	1.714	85	147028	5.09	PPBV		83
10) CHLOROMETHANE	1.688	52	19944	5.36	PPBV		96
11) VINYL CHLORIDE	1.746	62	69360	5.02	PPBV		98
12) 1,3-BUTADIENE	1.785	54	53869	5.04	PPBV	#	74
13) N-BUTANE	1.801	43	95908	5.23	PPBV		98
14) BROMOMETHANE	1.859	94	52720	5.02	PPBV		97
15) CHLOROETHANE	1.904	64	35268	4.83	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	127414	4.88	PPBV		96
17) ACETONITRILE	1.994	41	54085	4.71	PPBV		97
18) ACROLEIN	2.032	56	30491	5.10	PPBV		97
19) FREON 123	2.049	83	138654	5.20	PPBV		97
20) FREON 123A	2.065	117	81977	5.24	PPBV	#	56
21) TRICHLOROFLUOROMETHANE	2.129	101	150765	4.96	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	131851	5.23	PPBV		89
23) ACETONE	2.071	58	34925	5.00	PPBV		67
24) PENTANE	2.241	42	67328	5.17	PPBV		89
25) IODOMETHANE	2.299	142	145418	5.22	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	59691	5.29	PPBV	#	61
27) CARBON DISULFIDE	2.463	76	169676	5.18	PPBV		94
28) ETHANOL	1.933	45	31099	4.82	PPBV		98
29) BROMOETHENE	2.004	106	53853	4.91	PPBV		95
30) ACRYLONITRILE	2.209	52	50954	5.27	PPBV		98
31) METHYLENE CHLORIDE	2.364	84	53489	5.00	PPBV	#	78
32) 3-CHLOROPROPENE	2.405	76	30822	5.04	PPBV		72
33) FREON 113	2.460	151	91200	5.19	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.685	96	62237	5.00	PPBV	#	64
35) TERTIARY BUTYL ALCOHOL	2.338	59	146023	4.75	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	180915	5.12	PPBV		97
37) TETRAHYDROFURAN	3.470	72	27419	4.64	PPBV		76
38) HEXANE	3.241	57	121135	5.18	PPBV		82
39) VINYL ACETATE	2.827	86	16334	4.75	PPBV		70
40) 1,1-DICHLOROETHANE	2.759	63	121863	4.97	PPBV		97
41) METHYL ETHYL KETONE	2.923	72	31986	5.07	PPBV	#	83
42) CIS-1,2-DICHLOROETHENE	3.113	96	64888	5.01	PPBV	#	74
43) DIISOPROPYL ETHER	3.245	59	35230	5.24	PPBV		90
44) ETHYL ACETATE	3.248	61	23700	4.98	PPBV		68
45) METHYL ACRYLATE	3.235	55	147700	5.10	PPBV	#	98
46) CHLOROFORM	3.261	83	130788	5.10	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	139904	5.24	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	135968	5.09	PPBV		95
49) CARBON TETRACHLORIDE	4.235	117	140153	4.91	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.659	62	100577	5.00	PPBV		98
51) BENZENE	4.129	78	190147	5.07	PPBV		90
53) CYCLOHEXANE	4.335	84	86740	5.03	PPBV	#	69
54) 2,3-DIMETHYLPENTANE	4.585	71	44676	5.09	PPBV		68
55) TRICHLOROETHENE	5.013	95	87453	4.76	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	79932	4.94	PPBV		92
57) DIBROMOMETHANE	4.740	174	74130	4.94	PPBV		91
58) ETHYL ACRYLATE	4.901	55	184653	5.03	PPBV	#	96
59) BROMODICHLOROMETHANE	4.958	83	145254	4.78	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	376202	4.91	PPBV	#	95
61) 1,4-DIOXANE	5.029	88	43182	4.76	PPBV	#	83
62) HEPTANE	5.418	43	129447	5.06	PPBV		90
63) METHYL METHACRYLATE	5.315	69	72765	4.95	PPBV		88
64) METHYL ISOBUTYL KETONE	6.039	58	73624	4.88	PPBV		79
65) CIS-1,3-DICHLOROPROPENE	5.939	75	122774	4.78	PPBV		97
66) TOLUENE	7.129	91	237199	5.09	PPBV		98
67) 1,3-DICHLOROPROPANE	7.183	76	121971	5.06	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	6.605	75	107017	4.46	PPBV		97
69) 1,1,2-TRICHLOROETHANE	6.762	83	68995	5.00	PPBV		96
70) 2-HEXANONE	7.695	58	99491	5.01	PPBV	#	79
71) ETHYL METHACRYLATE	7.833	69	125849	4.97	PPBV		95
72) TETRACHLOROETHENE	8.846	164	87888	5.13	PPBV		97
73) DIBROMOCHLOROMETHANE	7.659	129	139976	4.88	PPBV		98
74) 1,2-DIBROMOETHANE	7.997	107	130464	5.30	PPBV		99
75) OCTANE	8.997	43	180997	5.16	PPBV		91
77) 1,1,1,2-TETRACHLOROETHANE	10.055	131	104080	5.17	PPBV		91
78) CHLOROBENZENE	10.042	112	194976	5.29	PPBV		89
79) ETHYLBENZENE	10.920	91	322003	5.30	PPBV		97
80) M,P-XYLENE	11.350	91	506054	10.38	PPBV		99
81) O-XYLENE	12.280	91	257748	5.40	PPBV		95
82) STYRENE	12.067	104	194546	5.23	PPBV		94
83) NONANE	13.402	43	192916	5.27	PPBV		83
84) BROMOFORM	11.158	173	119167	4.90	PPBV		94
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	186265	5.35	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	12.572	75	146270	5.34	PPBV		100
88) ISOPROPYLBENZENE	13.788	120	96509	5.28	PPBV		85
89) BROMOBENZENE	13.646	77	183496	5.30	PPBV		75
90) 2-CHLOROTOLUENE	14.784	126	86951	5.02	PPBV		100
91) N-PROPYLBENZENE	15.128	120	101472	5.12	PPBV		96
92) 4-ETHYLTOLUENE	15.569	105	373811	5.20	PPBV		97
93) 1,3,5-TRIMETHYLBENZENE	15.839	105	312677	5.22	PPBV		94
94) ALPHA-METHYLSTYRENE	16.173	118	154689	5.06	PPBV		96
95) TERT-BUTYLBENZENE	16.498	134	77024	5.33	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	320531	5.29	PPBV		95
97) BENZYL CHLORIDE	16.598	91	250636	4.80	PPBV		92
98) M-DICHLOROBENZENE	16.569	146	206691	5.11	PPBV		96
99) P-DICHLOROBENZENE	16.662	146	210041	5.27	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	196281	5.24	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	94529	5.43	PPBV		84
102) 1,2,3-TRIMETHYLBENZENE	16.935	105	310890	5.23	PPBV		95
103) P-ISOPROPYLTOLUENE	17.009	134	102620	5.24	PPBV		93
104) N-BUTYLBENZENE	17.379	134	99471	5.28	PPBV		79
105) HEXACHLOROETHANE	17.559	117	121985	5.22	PPBV		97
106) HEXACHLOROBUTADIENE	18.630	225	144324	5.62	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.315	180	179655	5.43	PPBV		100
108) NAPHTHALENE	18.363	128	413175	5.36	PPBV		100
110) TVHC as equiv Pentane	2.238	TIC	315100	5.18	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

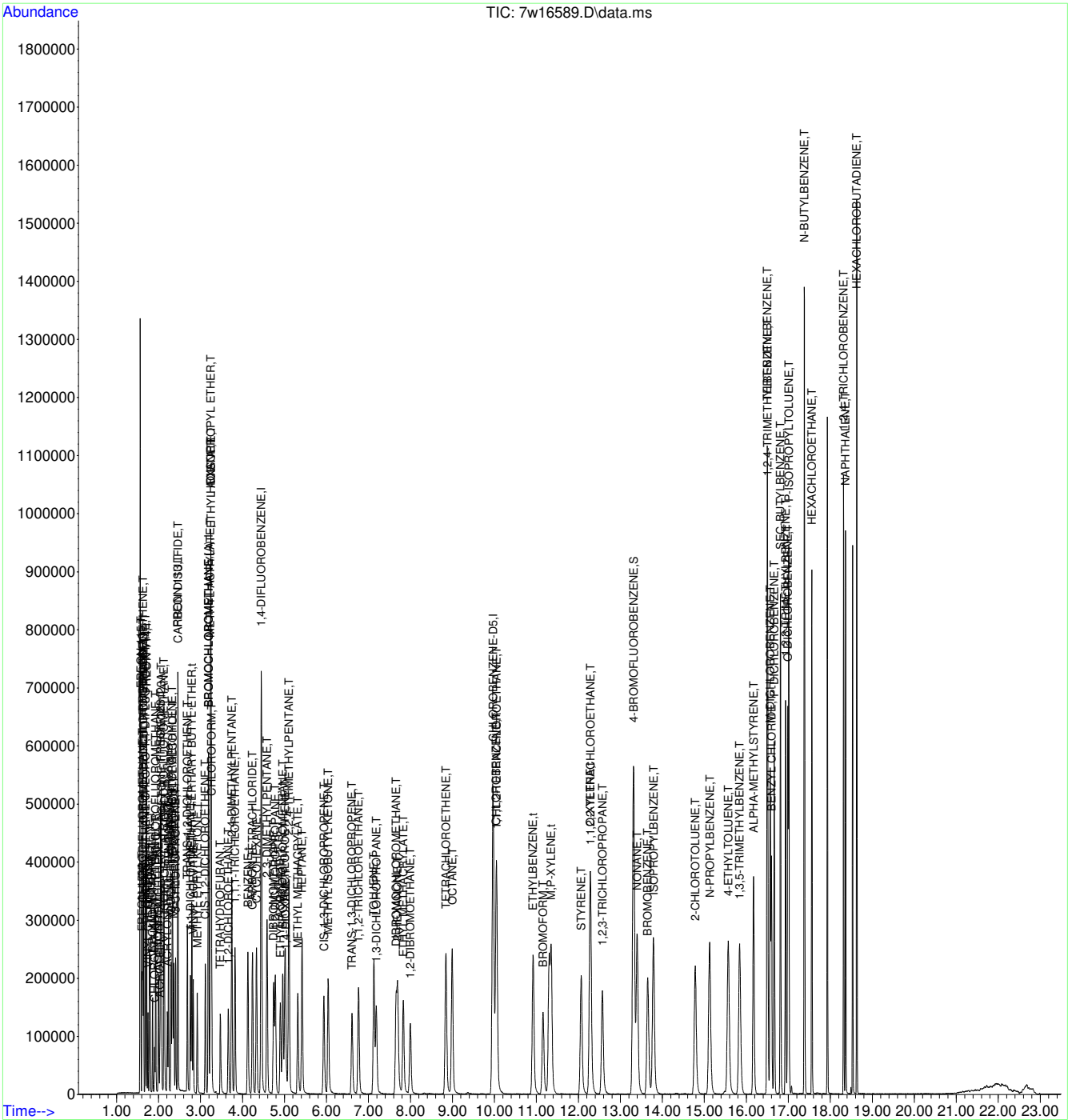
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

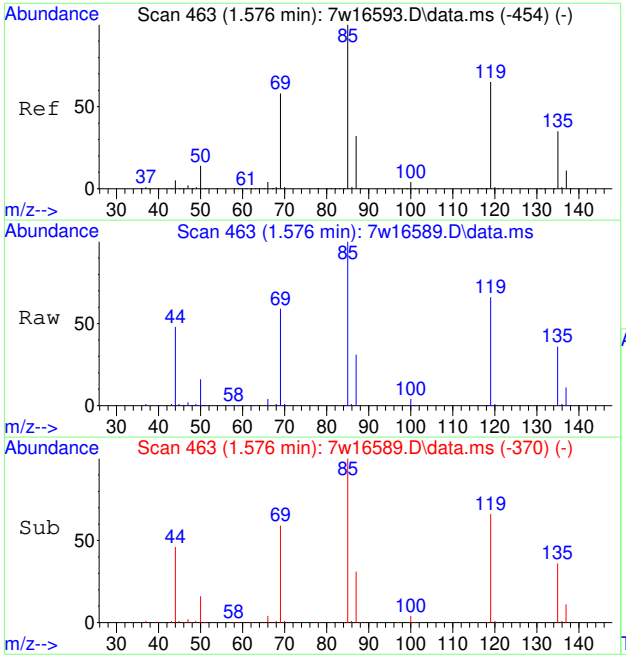
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

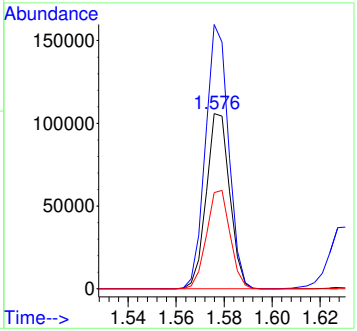


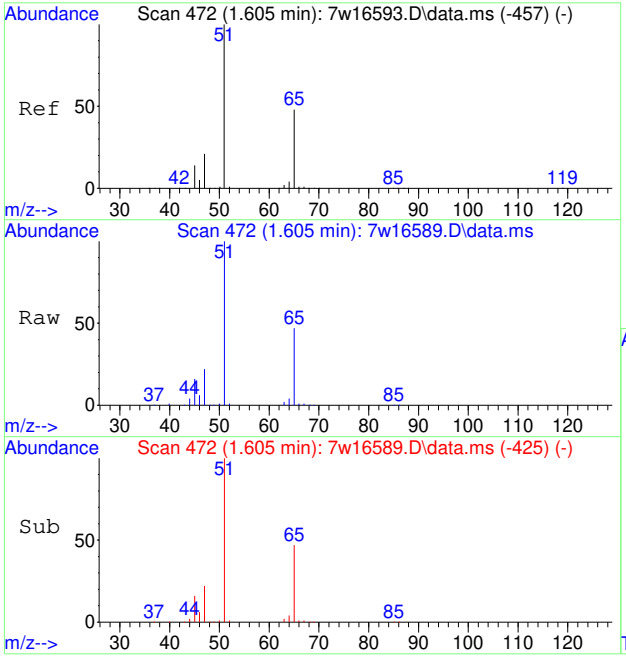


#2
FREON 115
Concen: 5.05 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:119 Resp: 71924

Ion	Ratio	Lower	Upper
119	100		
85	148.1	90.9	168.7
135	56.4	38.2	71.0

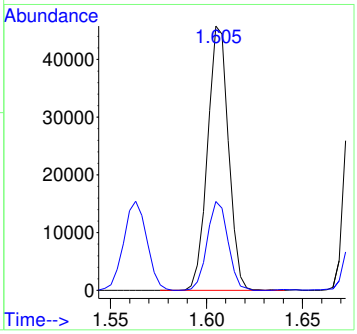


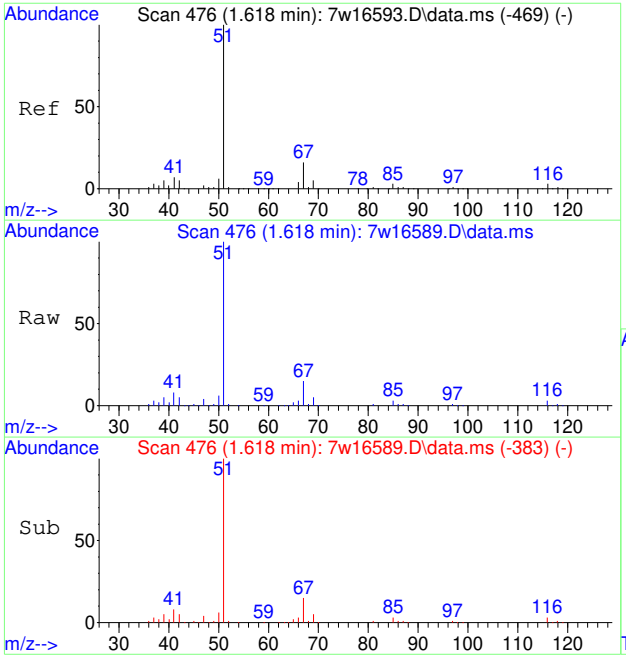


#3
FREON 152A
Concen: 5.11 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 34756

Ion	Ratio	Lower	Upper
65	100		
45	33.5	20.6	38.4

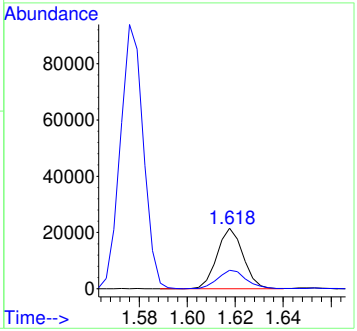


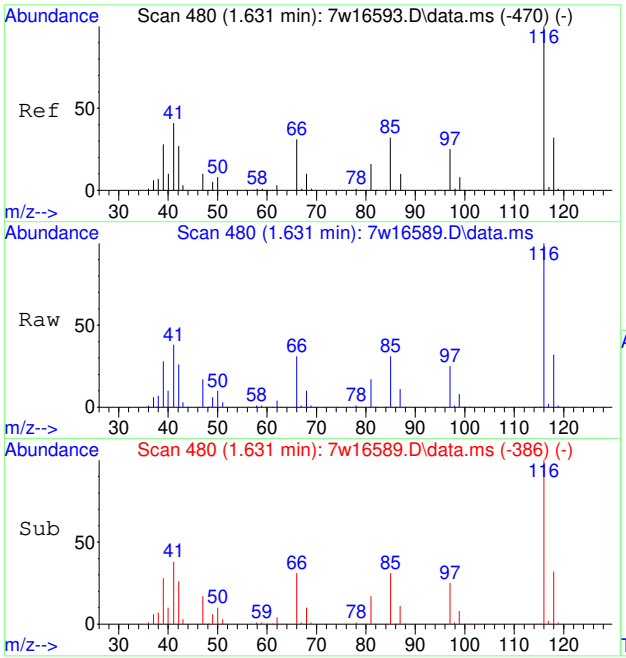


#4
CHLORODIFLUOROMETHANE
Concen: 5.26 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 16247

Ion	Ratio	Lower	Upper
67	100		
69	33.3	25.4	47.2

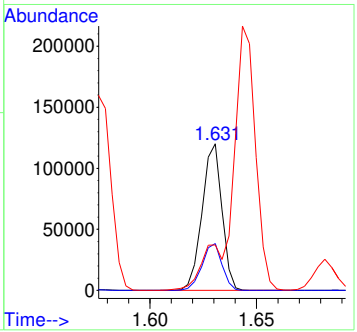


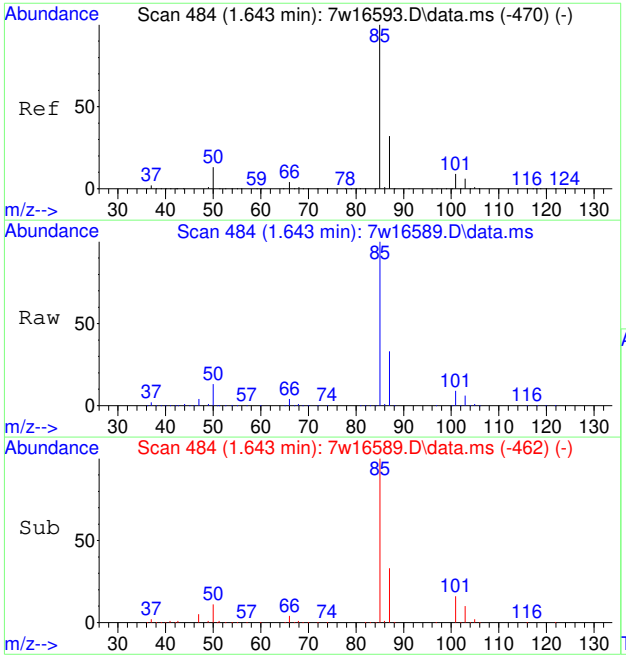


#5
CHLOROTRIFLUOROETHENE
Concen: 5.13 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:116 Resp: 77653

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.7	42.1
85	219.4	194.7	361.7

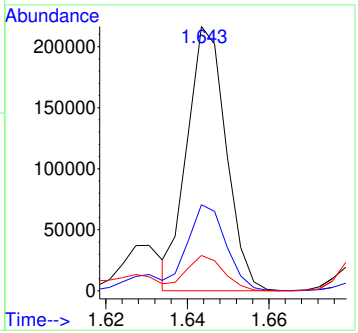


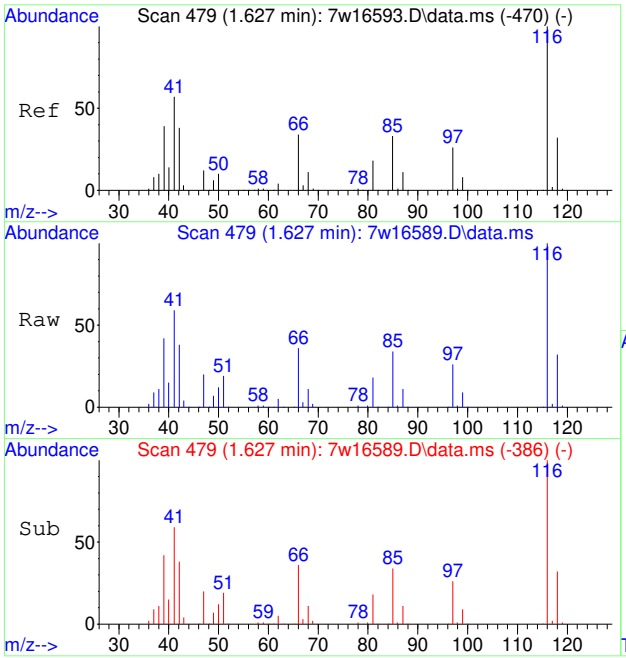


#6
DICHLORODIFLUOROMETHANE
Concen: 4.36 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 143733

Ion	Ratio	Lower	Upper
85	100		
87	38.6	23.1	42.9
50	22.8	12.1	22.5#

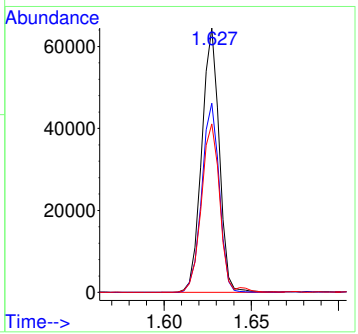


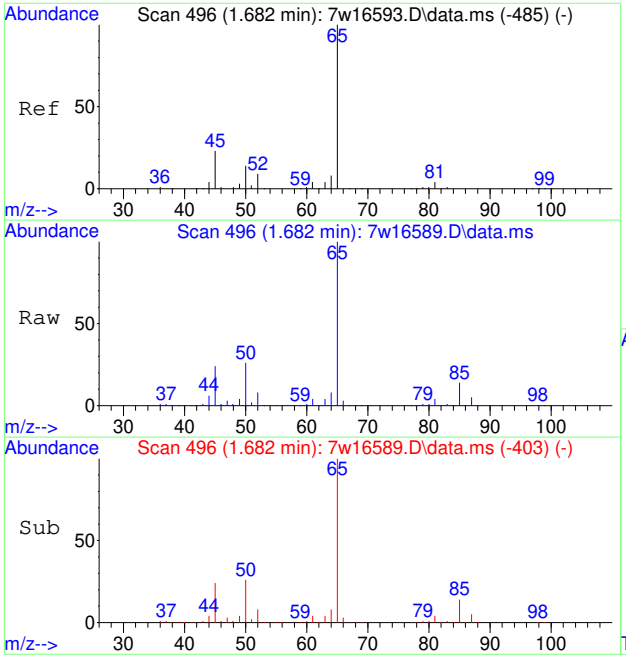


#7
PROPYLENE
Concen: 5.15 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 44998

Ion	Ratio	Lower	Upper
41	100		
39	71.7	51.0	94.8
42	67.5	46.6	86.6

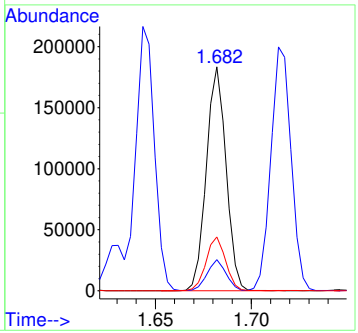


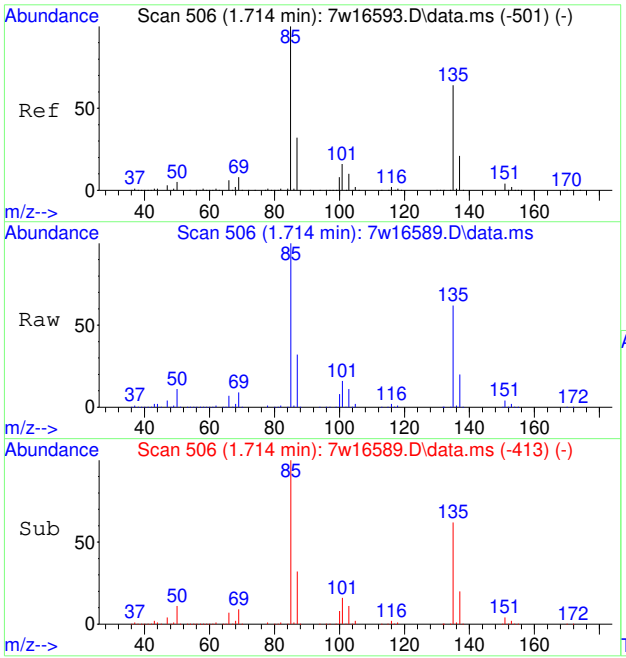


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 5.33 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 131345

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.7	17.9
45	23.8	17.0	31.6

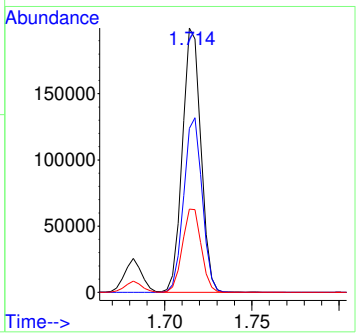


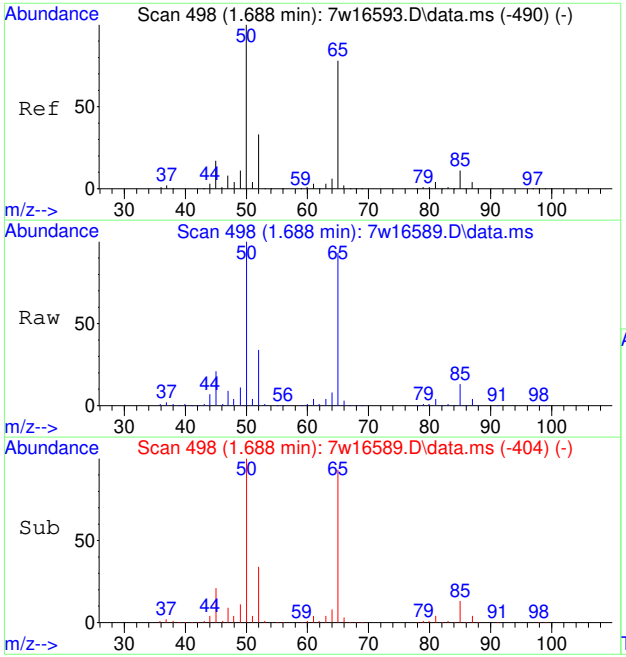


#9
FREON 114
Concen: 5.09 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 147028

Ion	Ratio	Lower	Upper
85	100		
135	66.0	61.3	113.9
87	32.2	23.2	43.0

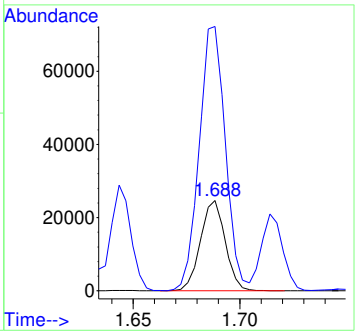


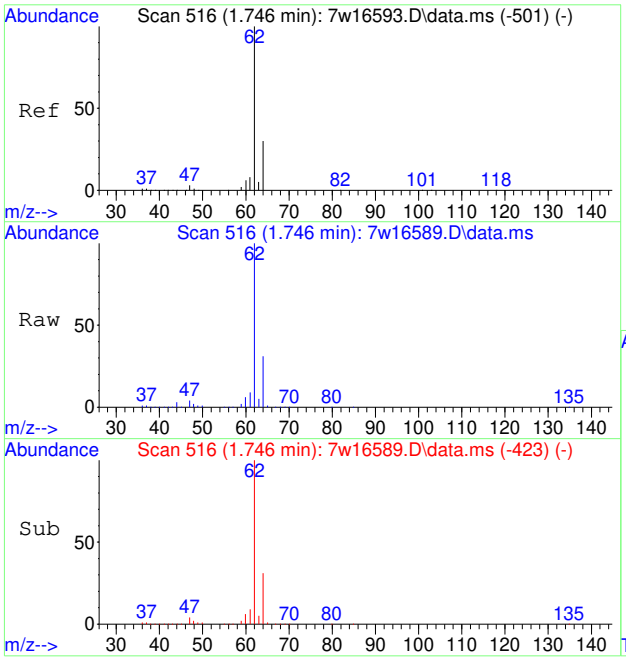


#10
CHLOROMETHANE
Concen: 5.36 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 19944

Ion	Ratio	Lower	Upper
52	100		
50	315.9	227.6	422.6

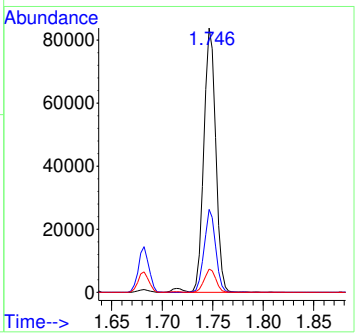


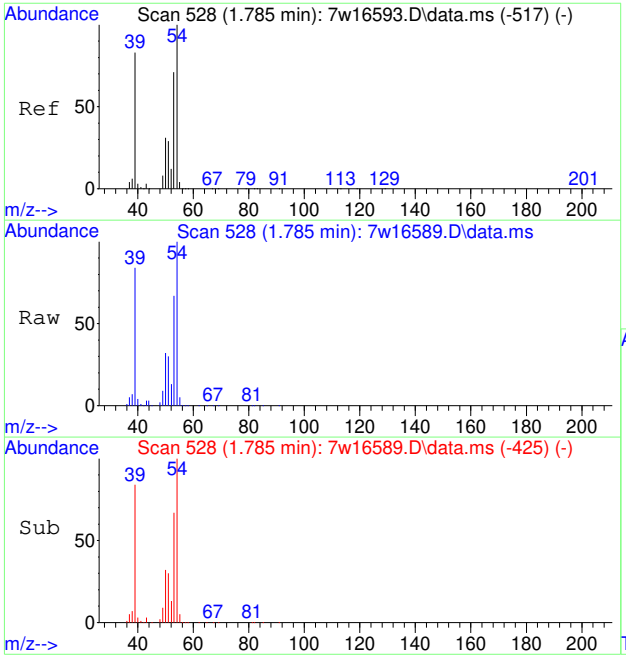


#11
VINYL CHLORIDE
Concen: 5.02 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 69360

Ion	Ratio	Lower	Upper
62	100		
64	29.9	21.6	40.2
61	8.5	5.7	10.7

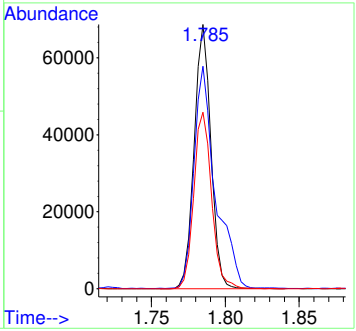


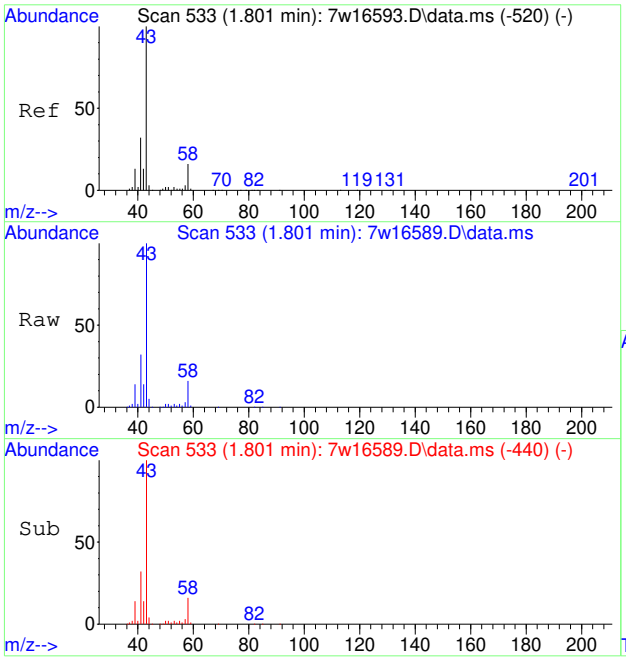


#12
1,3-BUTADIENE
Concen: 5.04 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 54 Resp: 53869

Ion	Ratio	Lower	Upper
54	100		
39	107.8	125.6	185.6#
53	71.3	40.7	100.7

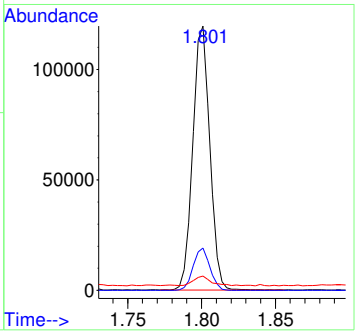


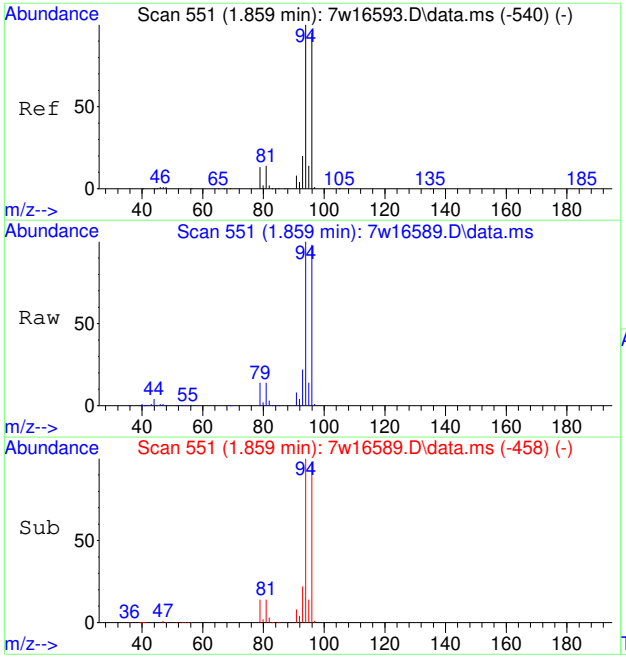


#13
N-BUTANE
Concen: 5.23 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 95908

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	4.1	3.0	5.6

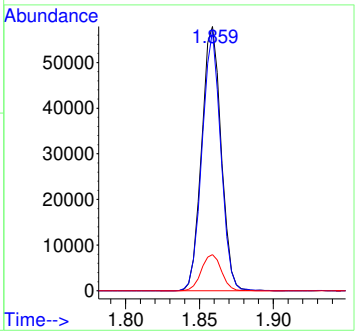


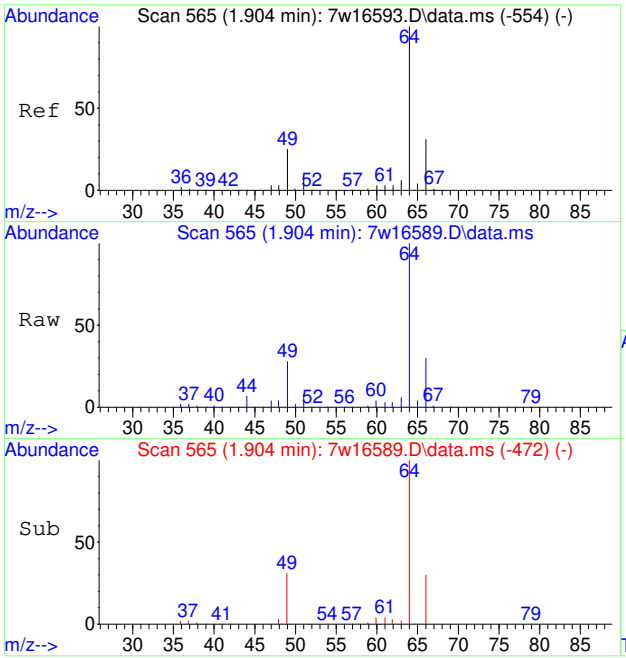


#14
BROMOMETHANE
Concen: 5.02 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 94 Resp: 52720

Ion	Ratio	Lower	Upper
94	100		
96	94.3	63.6	118.0
95	14.1	10.0	18.6

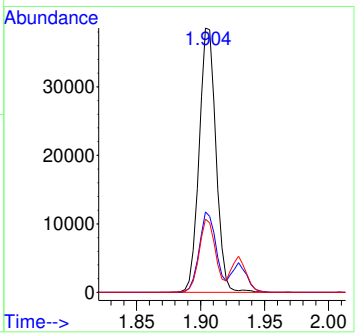


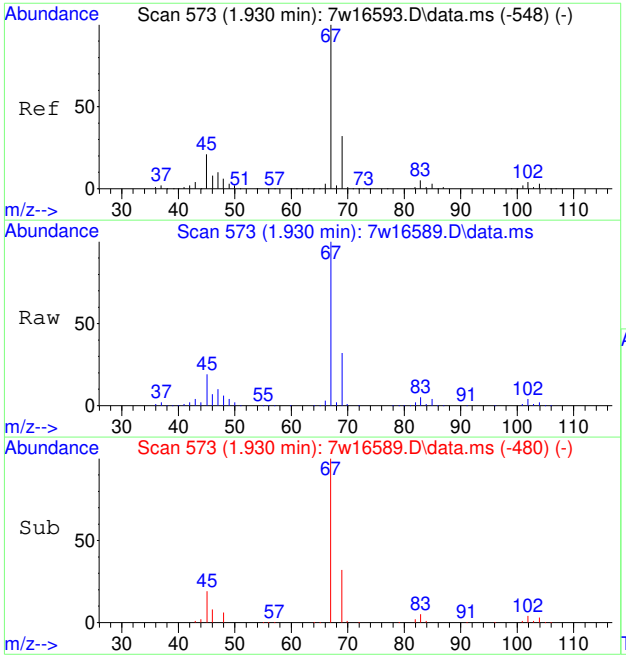


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 64 Resp: 35268

Ion	Ratio	Lower	Upper
64	100		
66	41.1	23.0	42.6
49	27.7	21.5	39.9

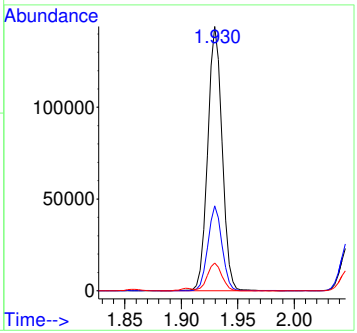


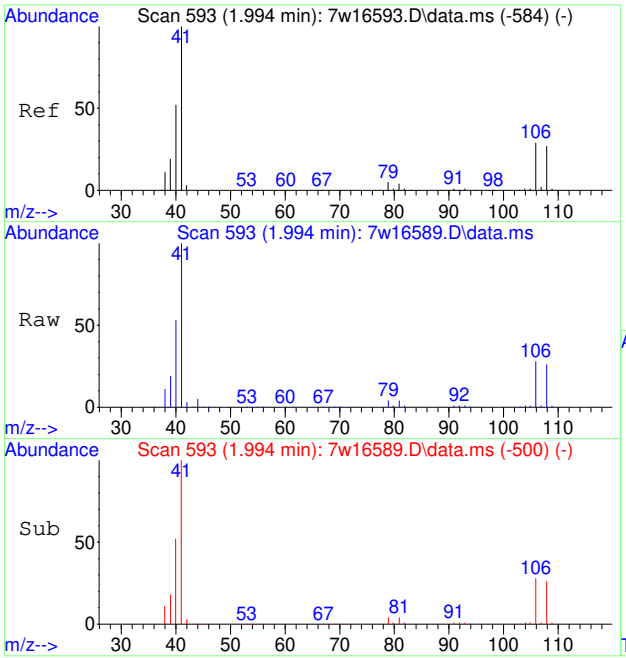


#16
DICHLOROFLUOROMETHANE
Concen: 4.88 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 127414

Ion	Ratio	Lower	Upper
67	100		
69	31.5	23.2	43.0
47	11.4	9.6	17.8

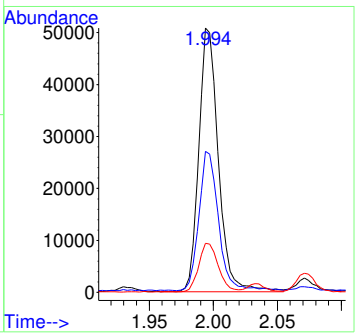


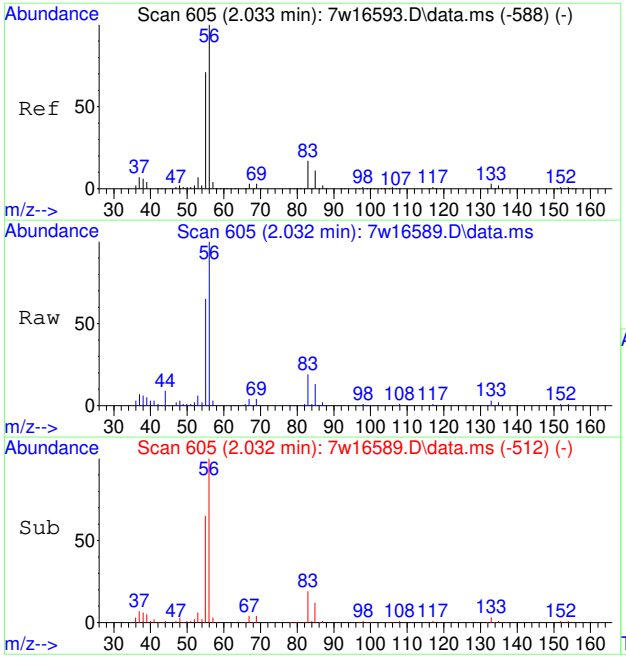


#17
ACETONITRILE
Concen: 4.71 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 54085

Ion	Ratio	Lower	Upper
41	100		
40	53.0	38.4	71.4
39	18.5	14.5	26.9

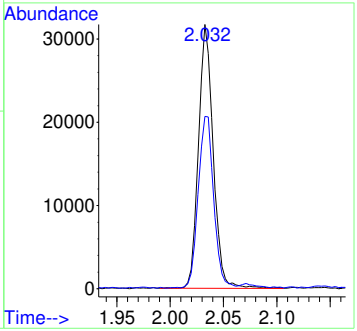


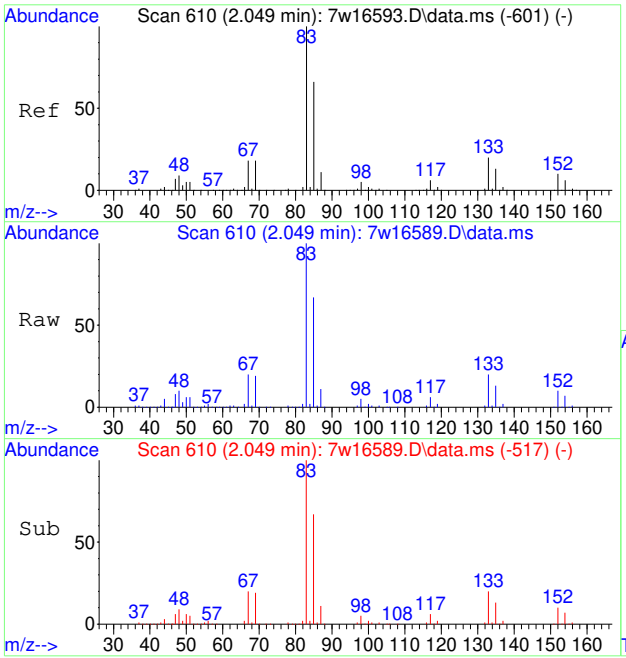


#18
ACROLEIN
Concen: 5.10 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 56 Resp: 30491

Ion	Ratio	Lower	Upper
56	100		
55	70.7	51.2	95.2

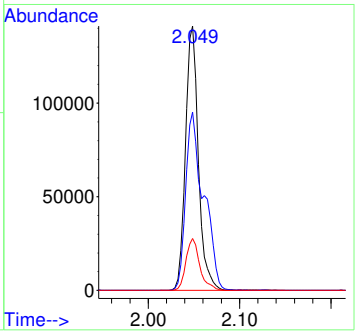


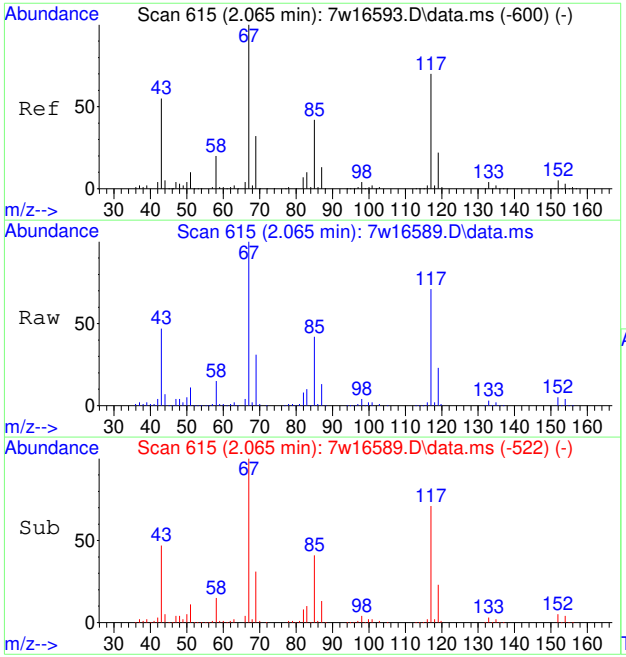


#19
FREON 123
Concen: 5.20 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 138654

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.1	19.9	36.9

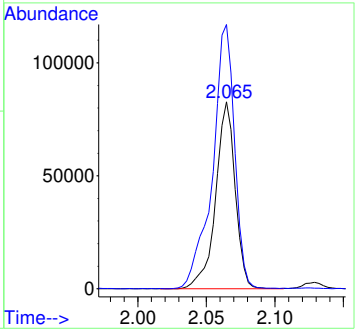


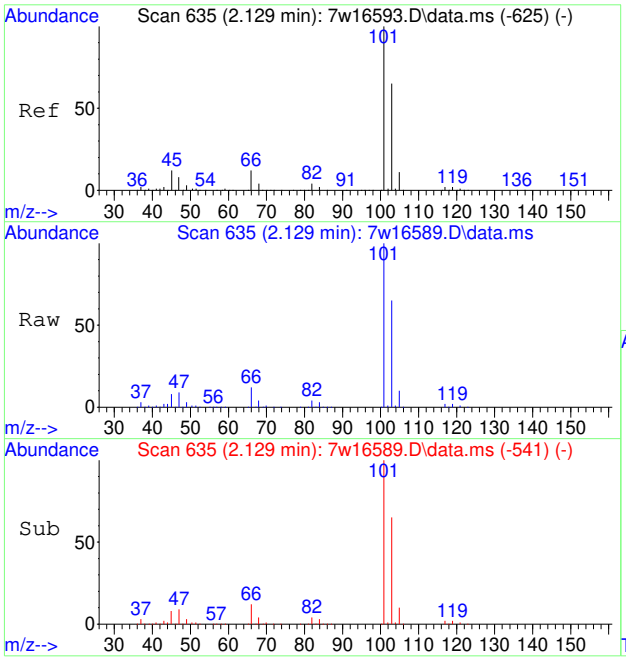


#20
FREON 123A
Concen: 5.24 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 81977

Ion	Ratio	Lower	Upper
117	100		
67	160.0	78.8	146.4#

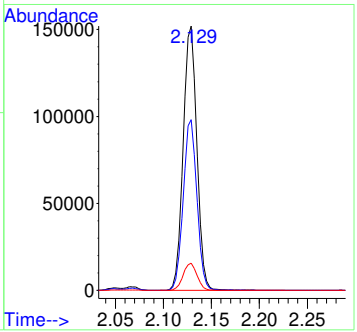


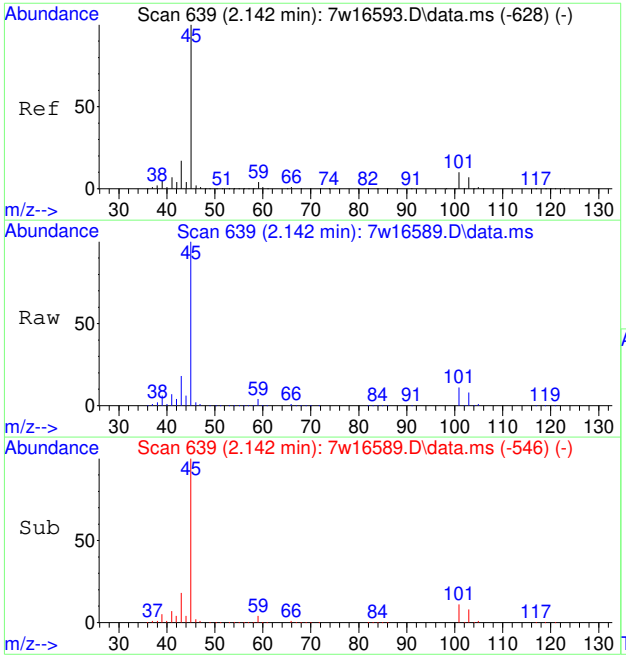


#21
TRICHLOROFLUOROMETHANE
Concen: 4.96 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:101 Resp: 150765

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.6	7.3	13.7

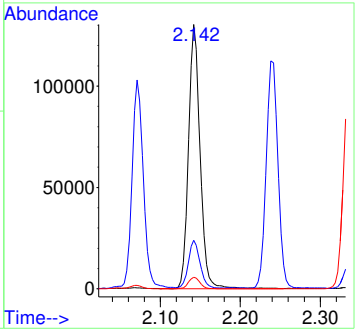


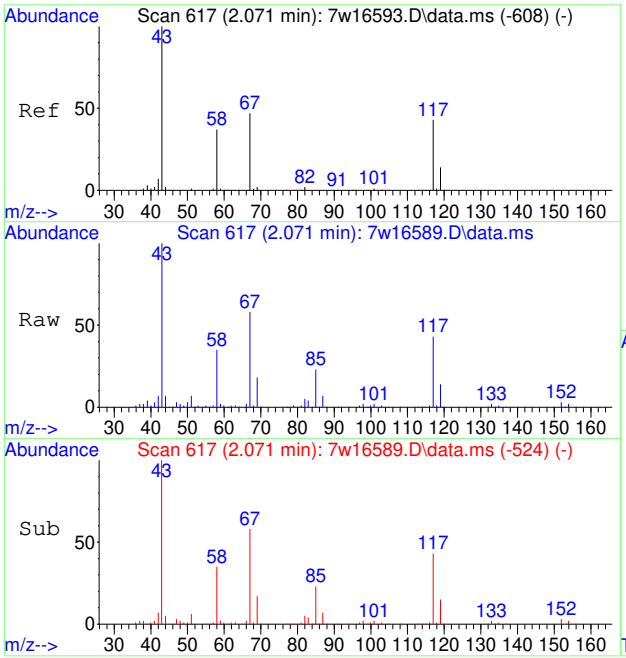


#22
ISOPROPYL ALCOHOL
Concen: 5.23 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 131851

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.4	3.1	5.8

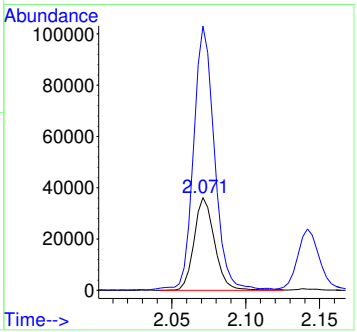


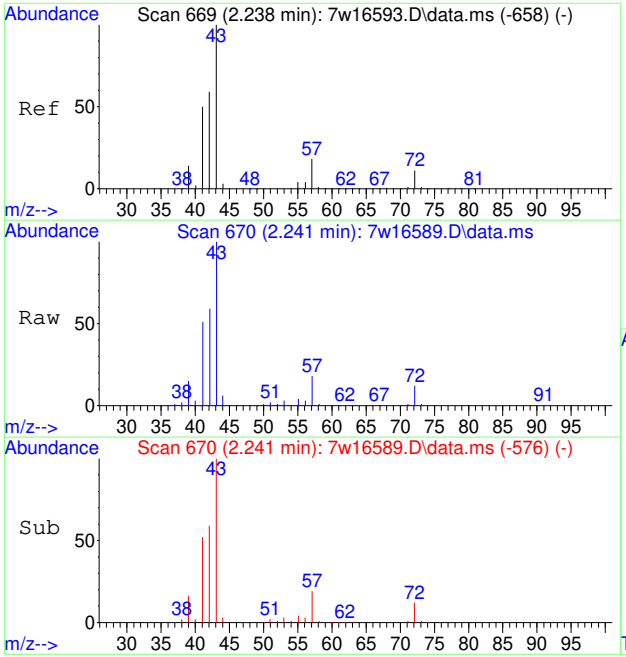


#23
ACETONE
Concen: 5.00 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 34925

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

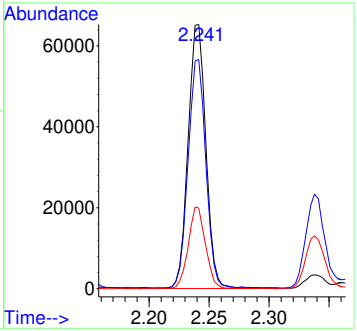


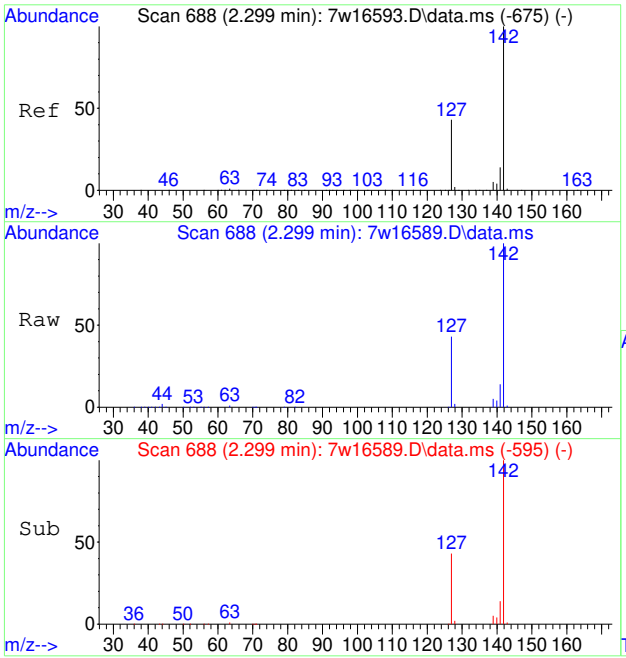


#24
PENTANE
Concen: 5.17 PPBV
RT: 2.241 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 42 Resp: 67328

Ion	Ratio	Lower	Upper
42	100		
41	86.9	69.2	128.6
57	30.5	18.6	34.6

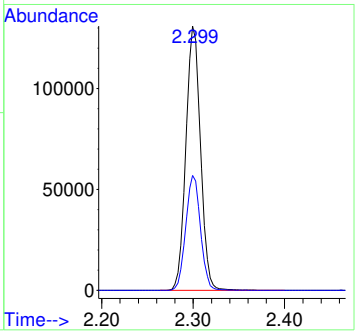


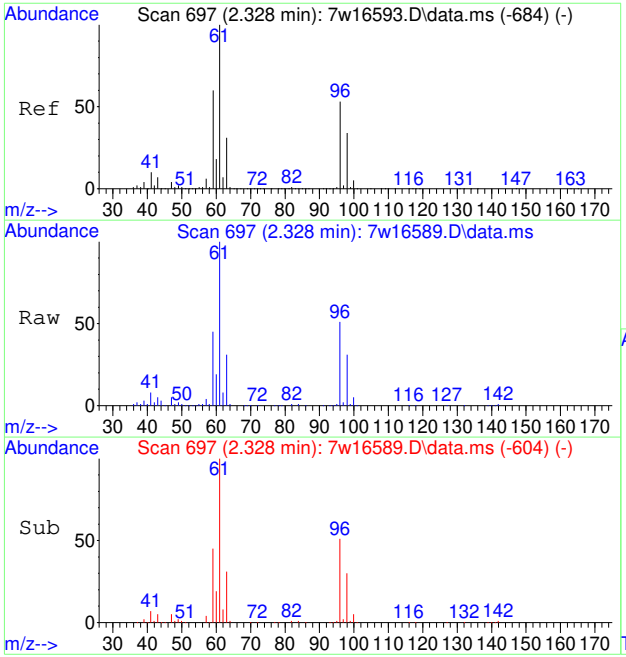


#25
IODOMETHANE
Concen: 5.22 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:142 Resp: 145418

Ion	Ratio	Lower	Upper
142	100		
127	43.8	32.1	59.7

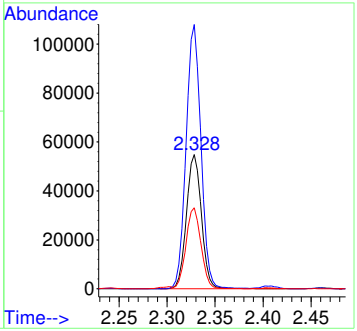


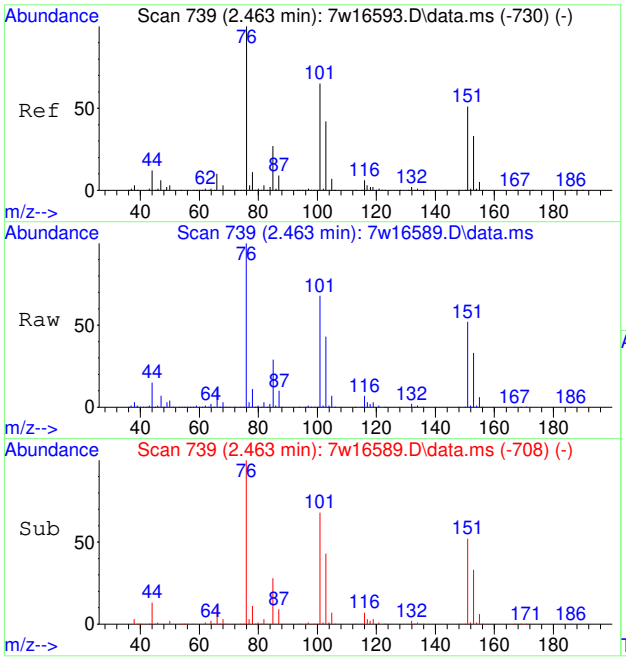


#26
1,1-DICHLOROETHYLENE
Concen: 5.29 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 59691

Ion	Ratio	Lower	Upper
96	100		
61	195.1	98.3	182.5#
63	61.9	33.2	61.7#

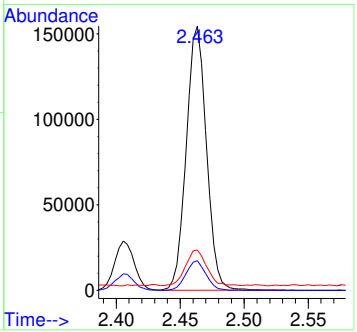


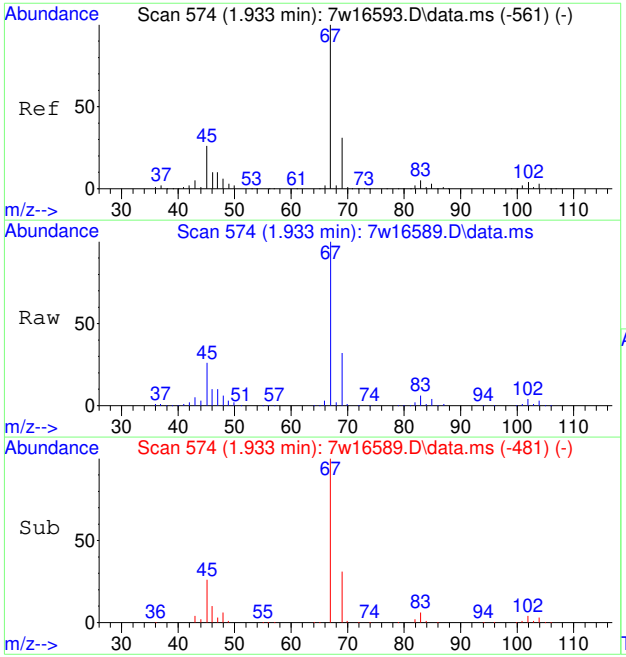


#27
CARBON DISULFIDE
Concen: 5.18 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 169676

Ion	Ratio	Lower	Upper
76	100		
78	11.2	8.3	15.3
44	14.4	13.0	24.1

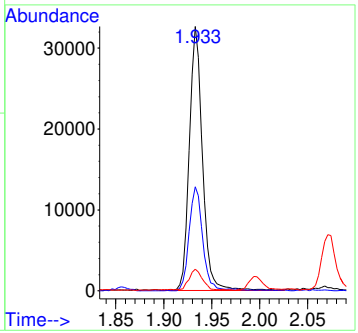


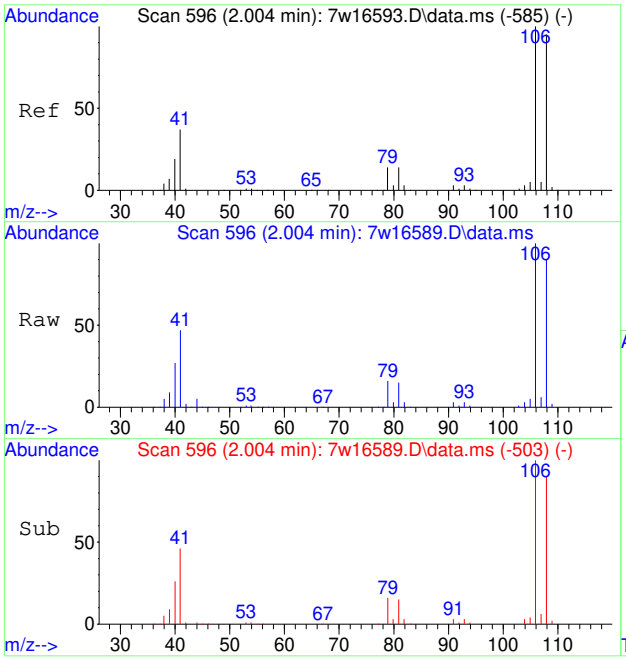


#28
ETHANOL
Concen: 4.82 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 31099

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.7	55.1
42	9.0	7.3	13.5

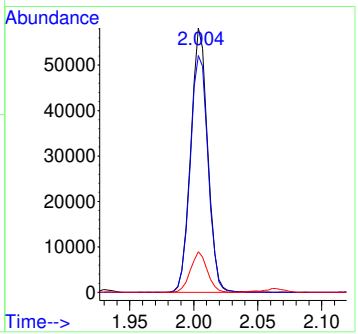


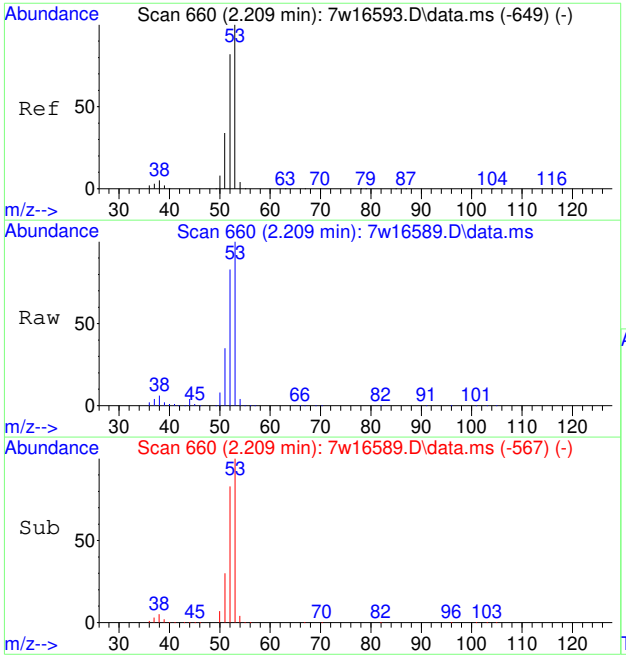


#29
BROMOETHENE
Concen: 4.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:106 Resp: 53853

Ion	Ratio	Lower	Upper
106	100		
108	93.9	68.3	126.8
81	15.2	14.7	27.3

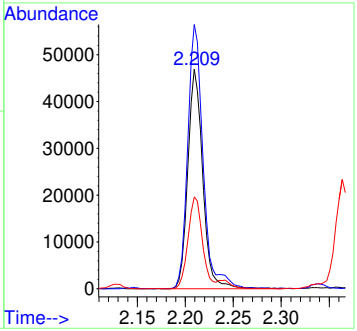


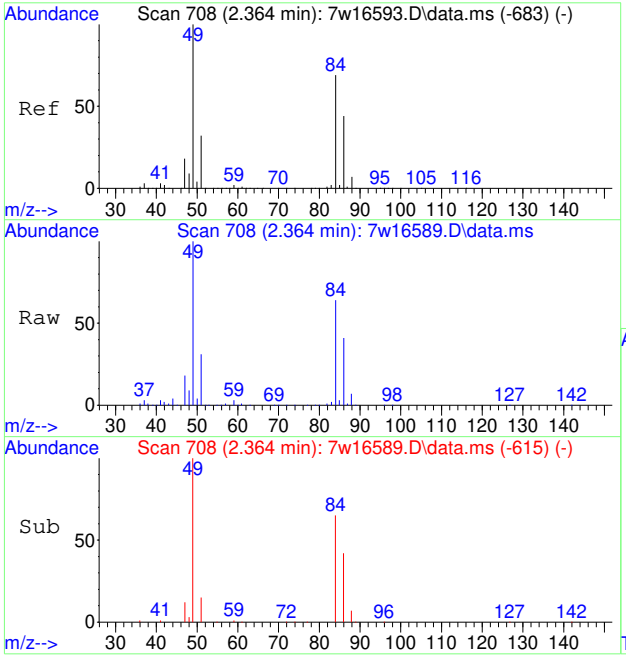


#30
ACRYLONITRILE
Concen: 5.27 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 50954

Ion	Ratio	Lower	Upper
52	100		
53	124.0	86.3	160.3
51	44.3	33.6	62.4

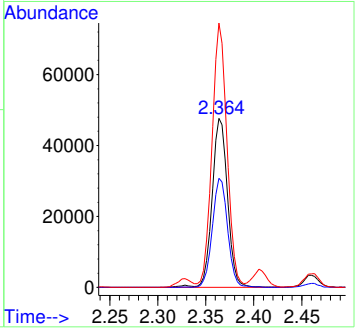


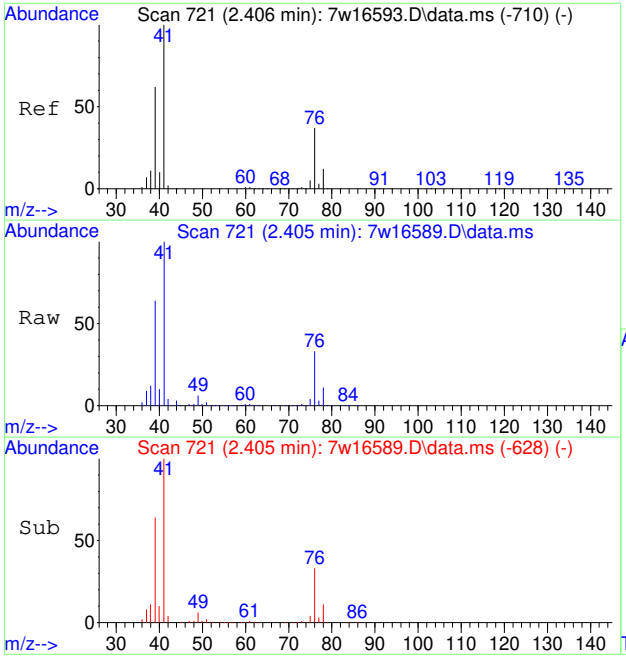


#31
METHYLENE CHLORIDE
Concen: 5.00 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 53489

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.9	83.5
49	151.5	79.7	148.1#

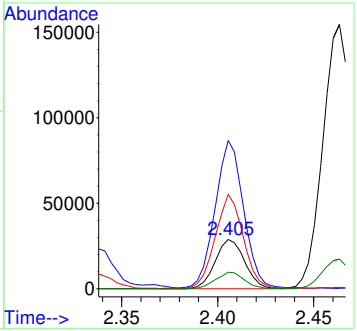


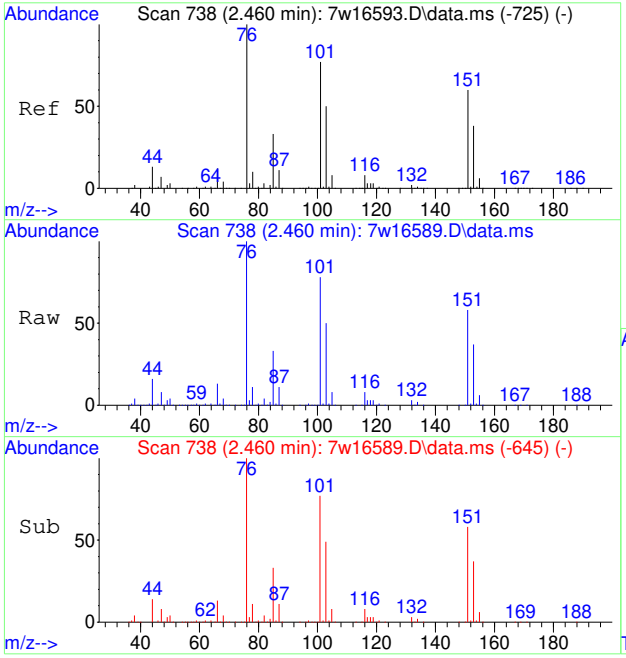


#32
3-CHLOROPROPENE
Concen: 5.04 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 30822

Ion	Ratio	Lower	Upper
76	100		
41	292.3	160.9	298.9
39	181.9	150.7	279.9
78	33.1	22.7	42.1

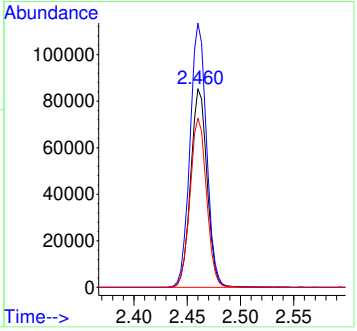


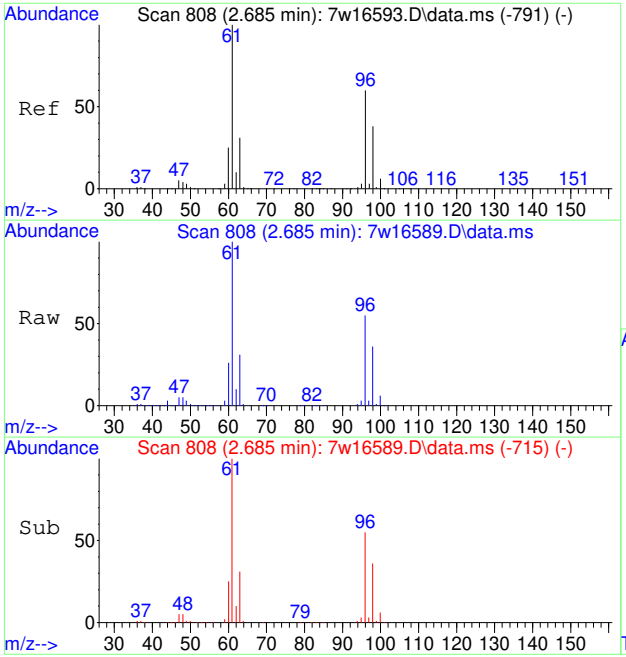


#33
FREON 113
Concen: 5.19 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:151 Resp: 91200

Ion	Ratio	Lower	Upper
151	100		
101	134.2	81.1	150.7
103	85.8	51.4	95.4

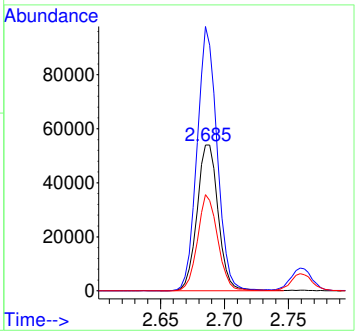


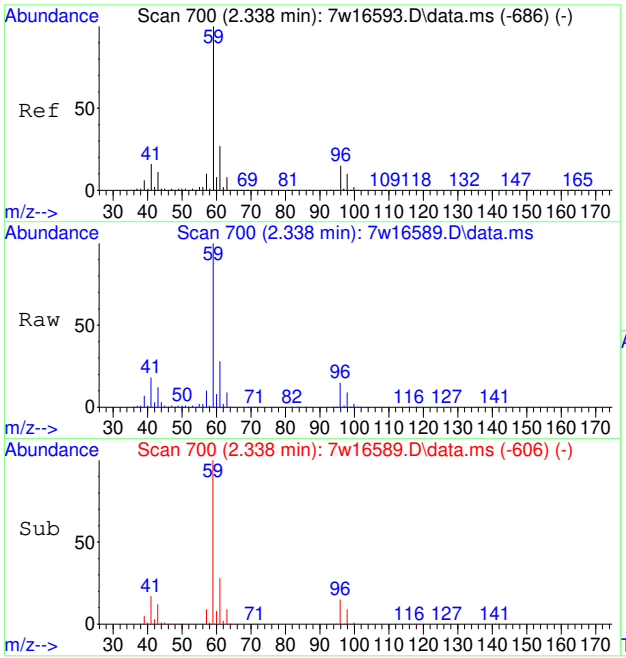


#34
TRANS-1,2-DICHLOROETHENE
Concen: 5.00 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 62237

Ion	Ratio	Lower	Upper
96	100		
61	171.0	78.5	145.9#
98	63.0	46.5	86.3

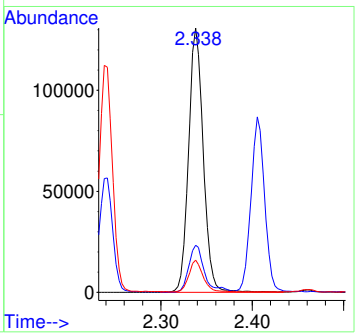


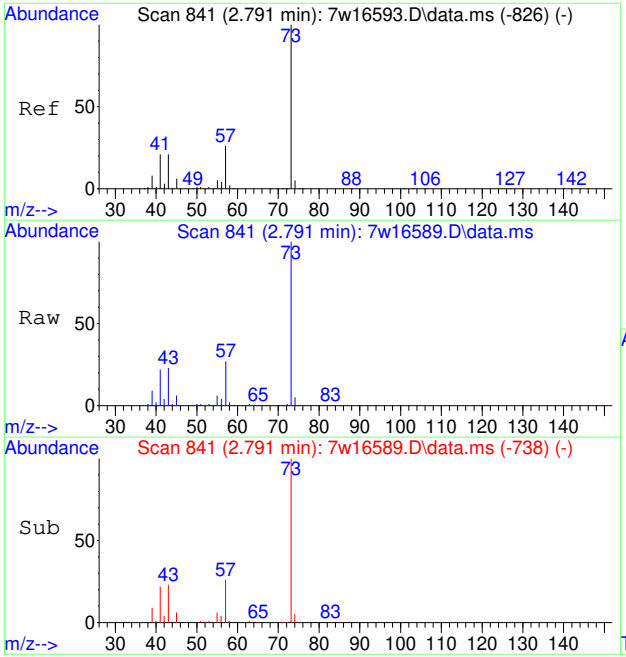


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.75 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 146023

Ion	Ratio	Lower	Upper
59	100		
41	18.7	15.3	28.5
43	11.5	12.3	22.9#

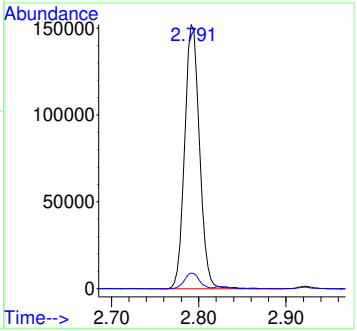


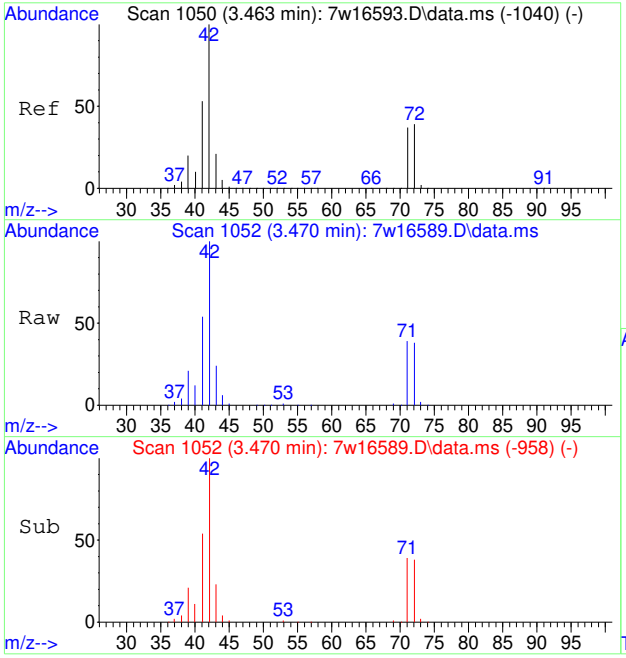


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.12 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 73 Resp: 180915

Ion	Ratio	Lower	Upper
73	100		
45	5.9	3.4	6.4

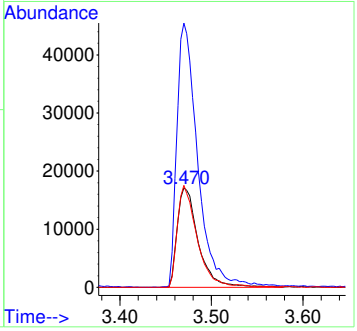


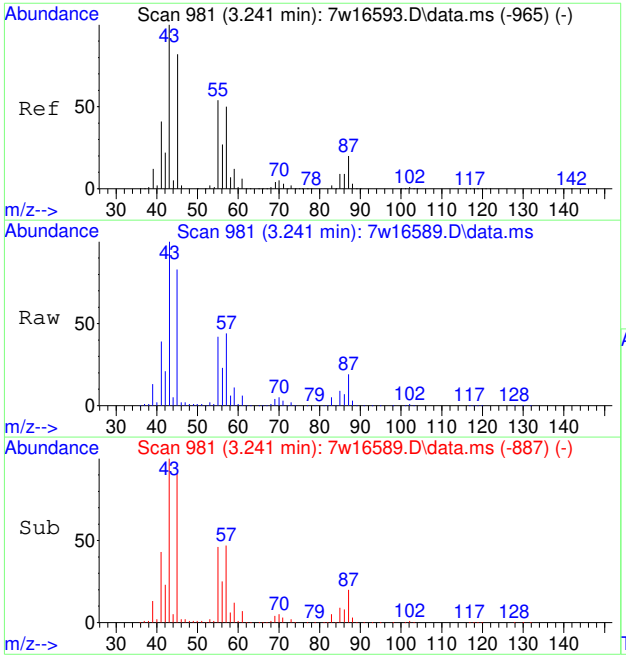


#37
TETRAHYDROFURAN
Concen: 4.64 PPBV
RT: 3.470 min Scan# 1052
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 27419

Ion	Ratio	Lower	Upper
72	100		
42	267.5	153.0	284.2
71	97.0	62.7	116.5

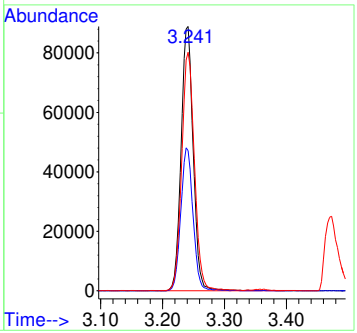


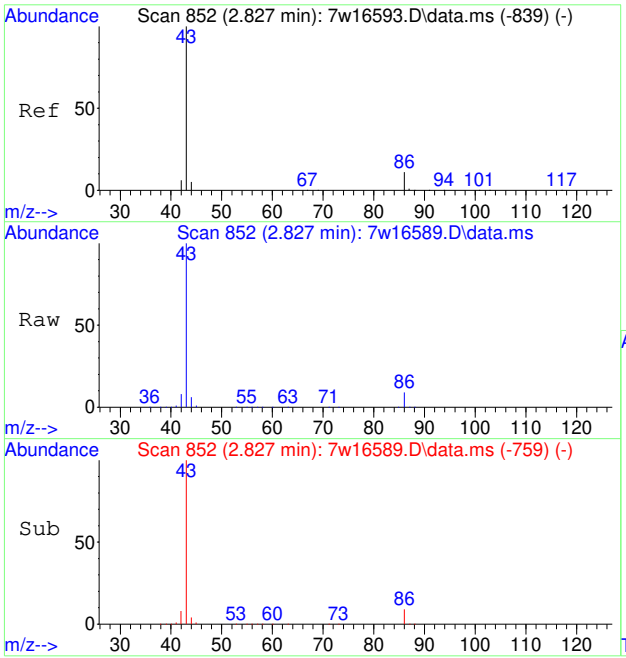


#38
HEXANE
Concen: 5.18 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 121135

Ion	Ratio	Lower	Upper
57	100		
56	54.5	37.3	69.3
41	95.1	86.7	161.1

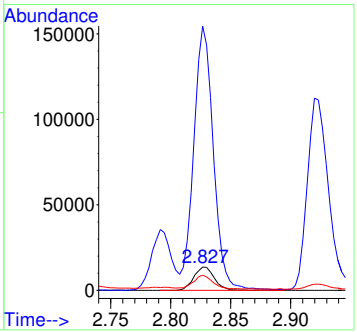


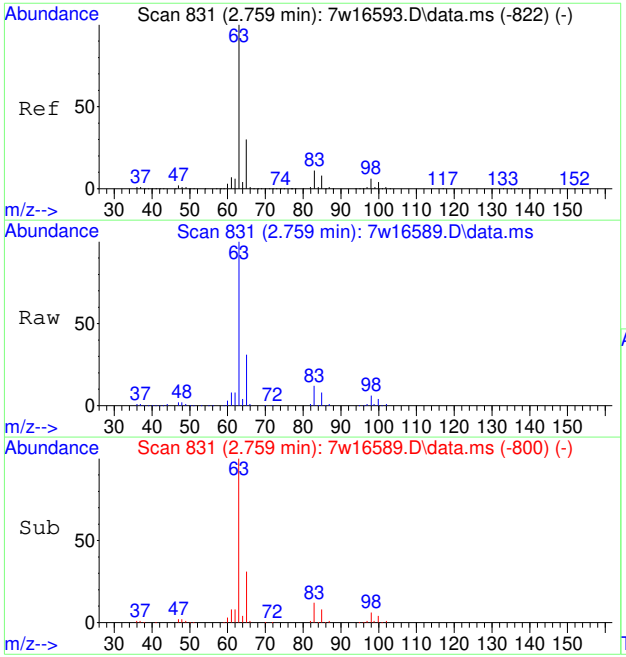


#39
VINYL ACETATE
Concen: 4.75 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 86 Resp: 16334

Ion	Ratio	Lower	Upper
86	100		
43	1085.5	667.9	1240.3
44	60.0	32.7	60.7

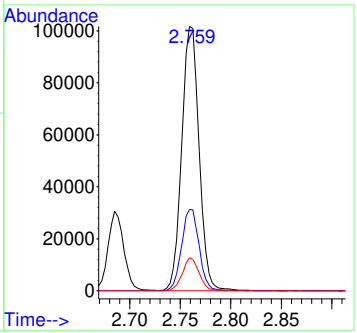


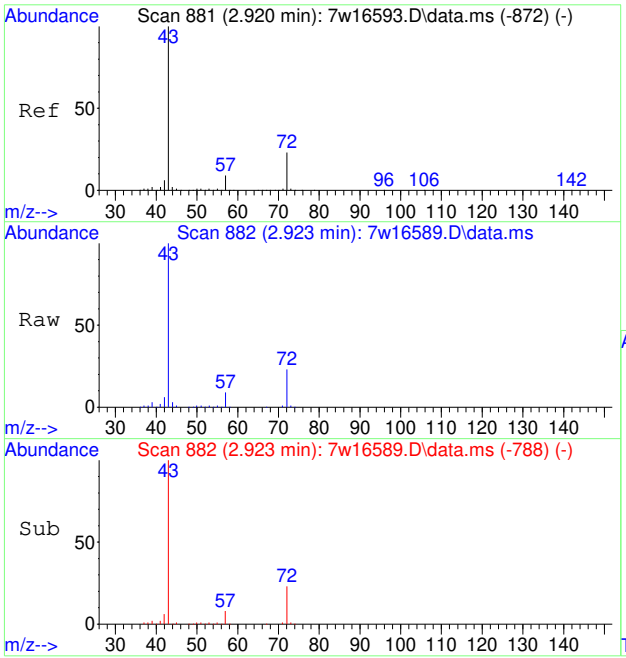


#40
1,1-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 121863

Ion	Ratio	Lower	Upper
63	100		
65	31.1	21.8	40.6
83	12.0	10.6	19.6

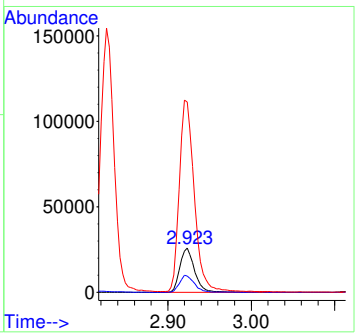


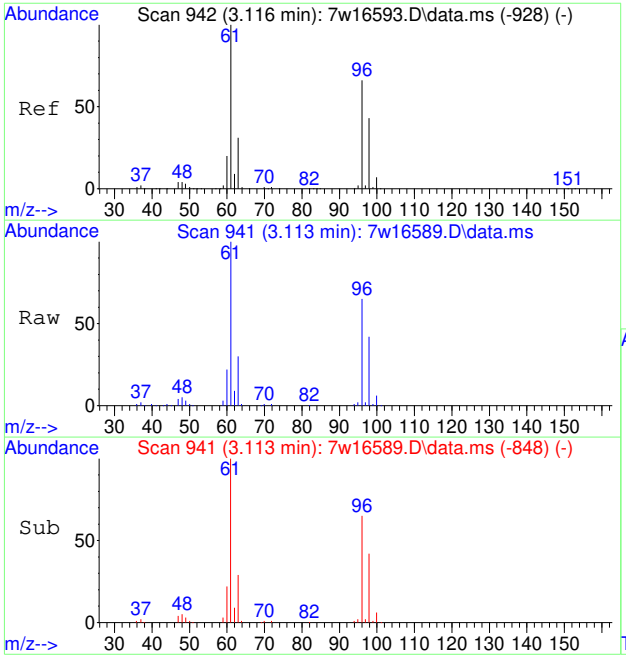


#41
METHYL ETHYL KETONE
Concen: 5.07 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 31986

Ion	Ratio	Lower	Upper
72	100		
57	39.2	20.3	37.7#
43	443.0	282.8	525.2

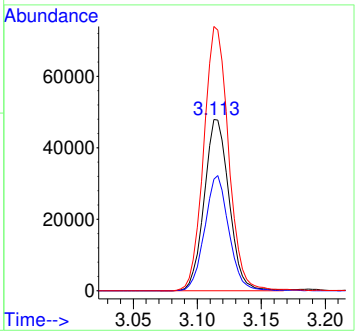


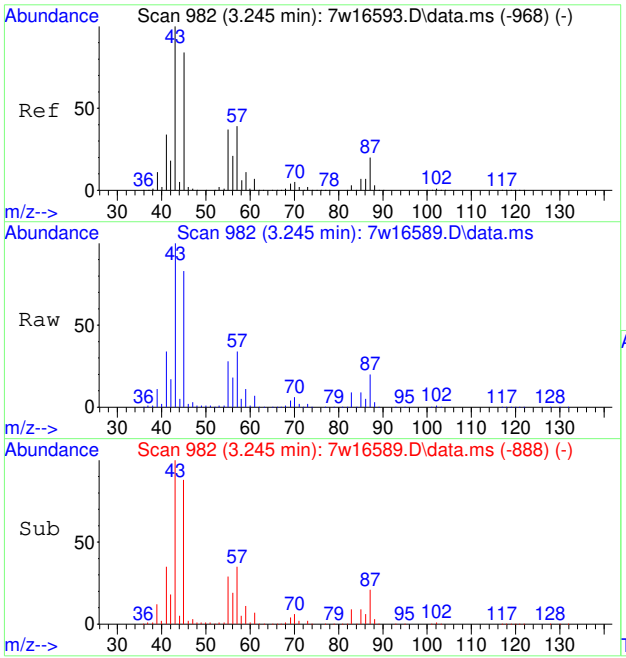


#42
CIS-1,2-DICHLOROETHENE
Concen: 5.01 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 64888

Ion	Ratio	Lower	Upper
96	100		
98	65.5	46.8	86.8
61	154.3	78.3	145.5#

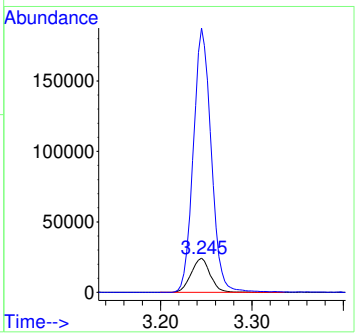


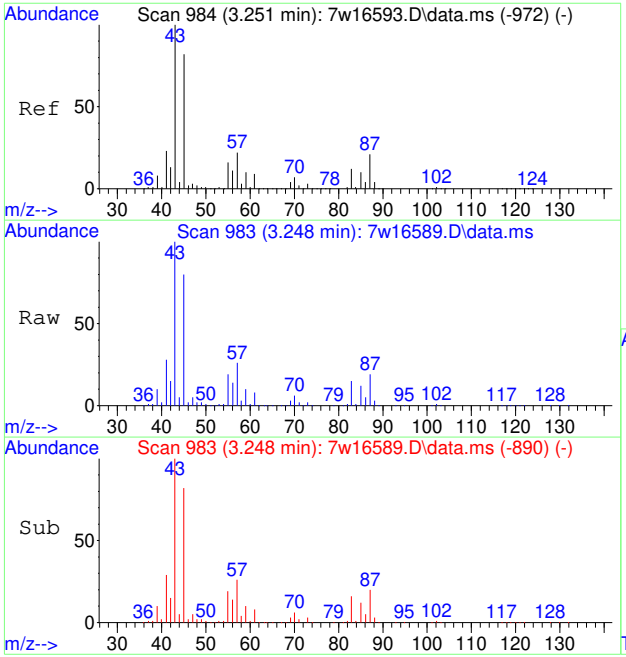


#43
DIISOPROPYL ETHER
Concen: 5.24 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 35230

Ion	Ratio	Lower	Upper
59	100		
45	724.5	532.1	988.1

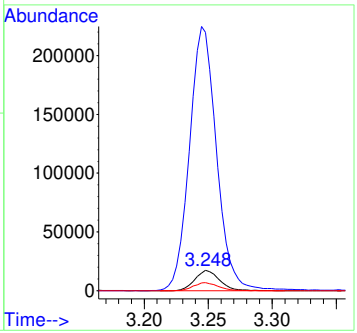


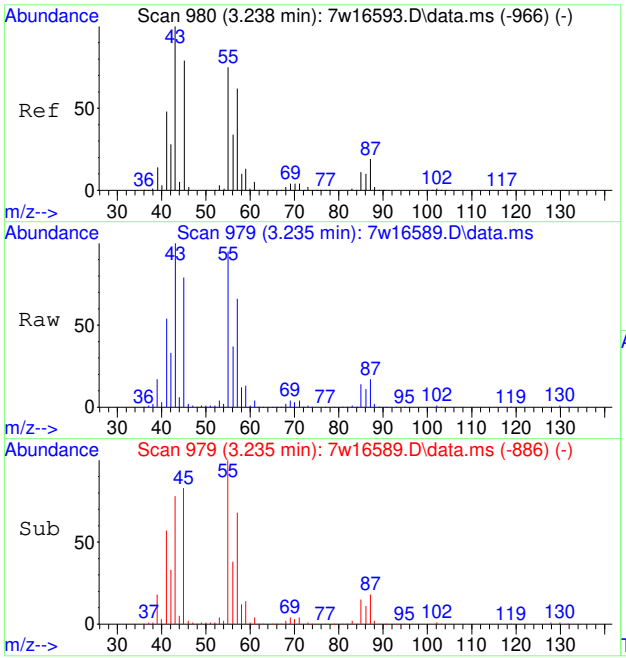


#44
ETHYL ACETATE
Concen: 4.98 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 61 Resp: 23700

Ion	Ratio	Lower	Upper
61	100		
43	1408.7	1127.5	2093.9
88	40.8	36.2	67.2

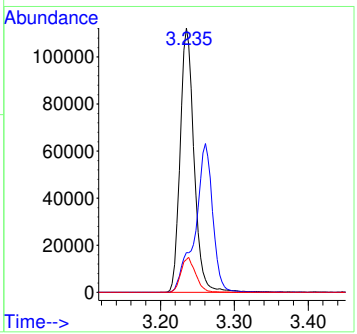


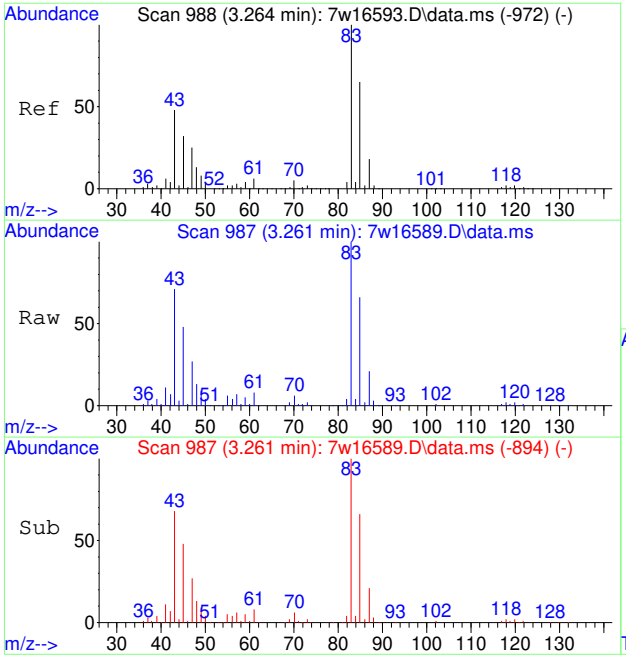


#45
METHYL ACRYLATE
Concen: 5.10 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 147700

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

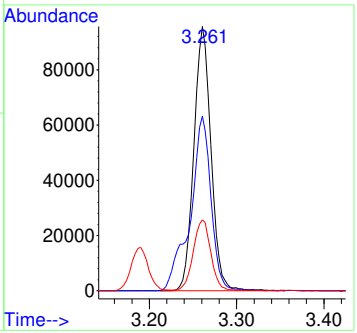


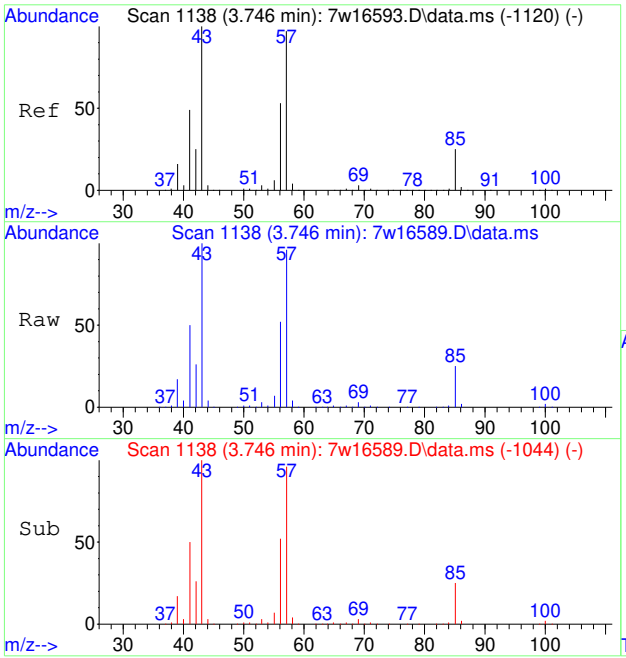


#46
CHLOROFORM
Concen: 5.10 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 130788

Ion	Ratio	Lower	Upper
83	100		
85	80.1	54.6	101.4
47	27.9	17.9	33.3

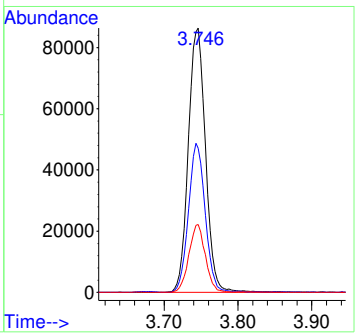


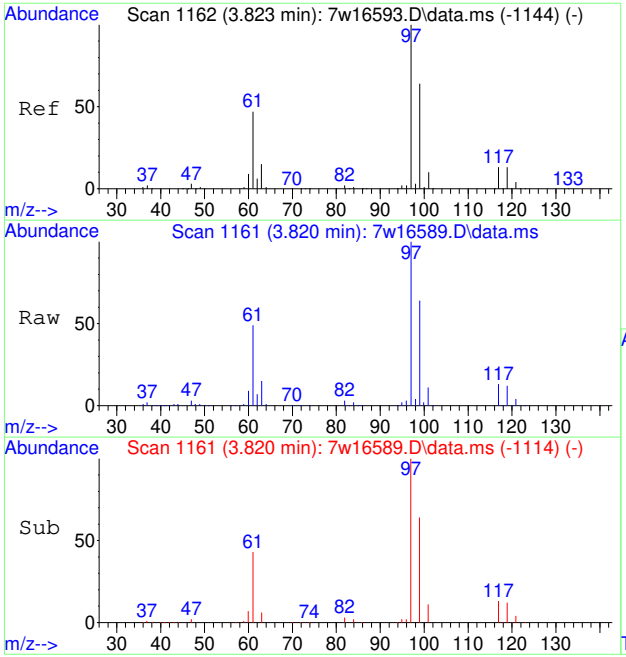


#47
2,4-DIMETHYLPENTANE
Concen: 5.24 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 139904

Ion	Ratio	Lower	Upper
57	100		
56	55.4	39.2	72.8
85	24.6	24.1	44.7

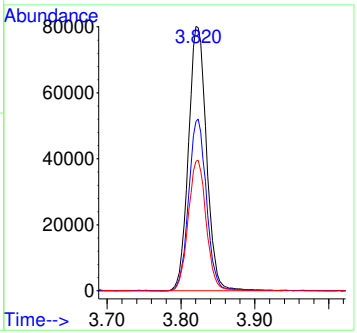


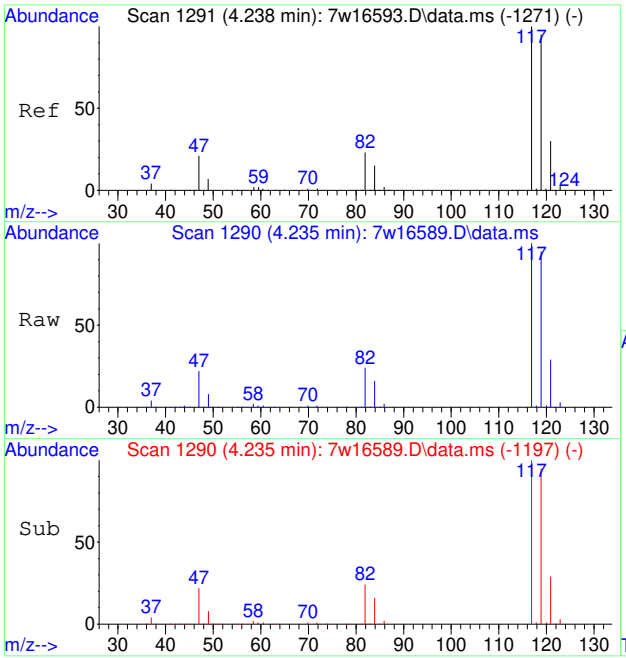


#48
1,1,1-TRICHLOROETHANE
Concen: 5.09 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 97 Resp: 135968

Ion	Ratio	Lower	Upper
97	100		
99	64.1	44.9	83.5
61	49.4	28.6	53.0

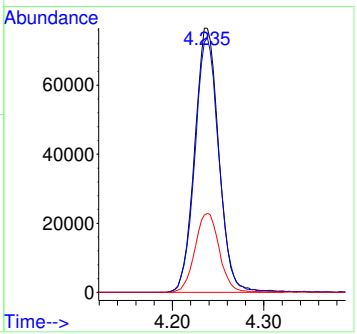


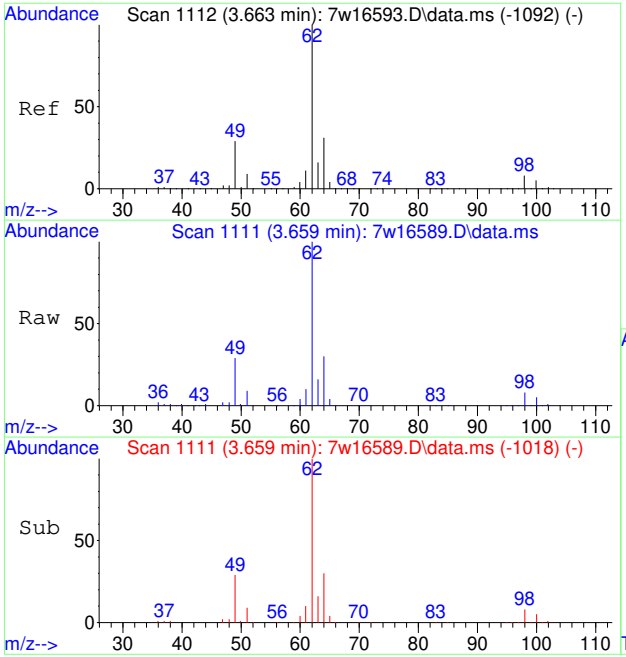


#49
CARBON TETRACHLORIDE
Concen: 4.91 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 140153

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

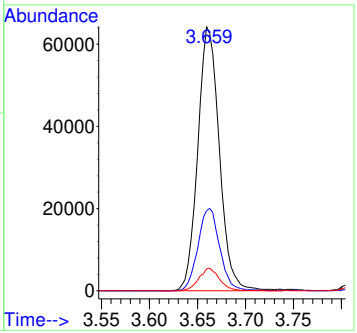


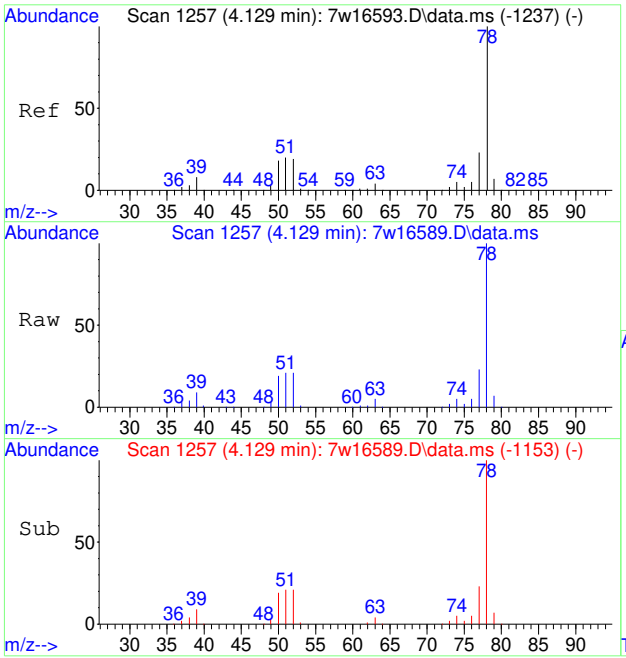


#50
1,2-DICHLOROETHANE
Concen: 5.00 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 100577

Ion	Ratio	Lower	Upper
62	100		
64	31.6	22.5	41.7
98	8.2	6.8	12.6

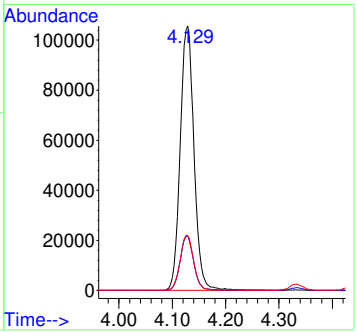


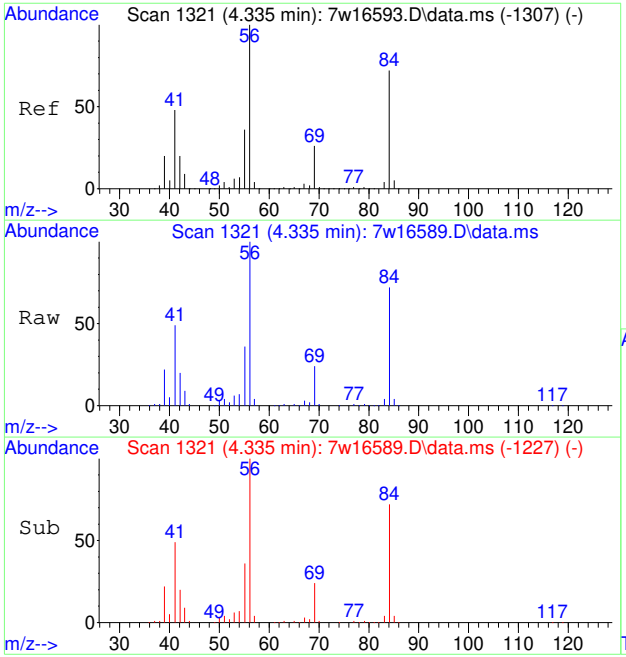


#51
BENZENE
Concen: 5.07 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 78 Resp: 190147

Ion	Ratio	Lower	Upper
78	100		
52	20.1	0.0	44.6
51	20.6	0.0	47.3

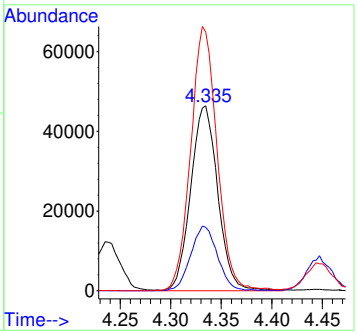


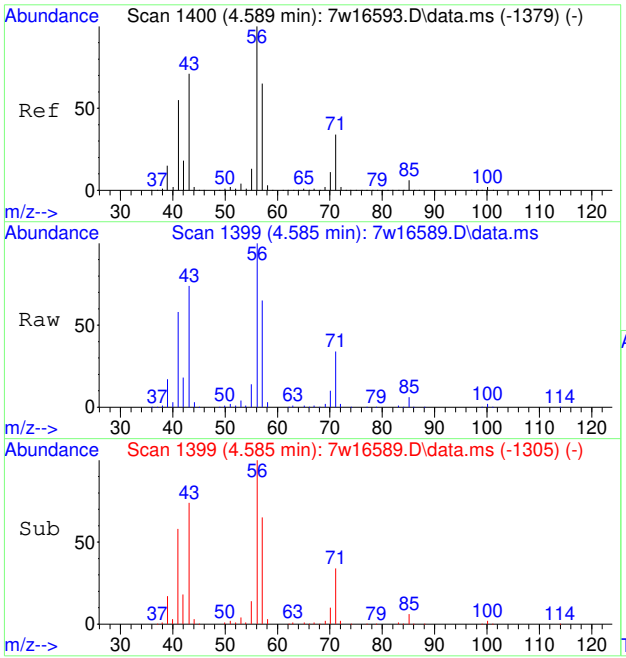


#53
CYCLOHEXANE
Concen: 5.03 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 86740

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	139.2	70.2	130.4#

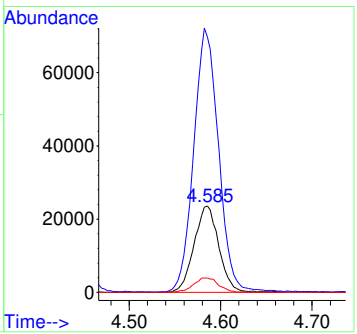


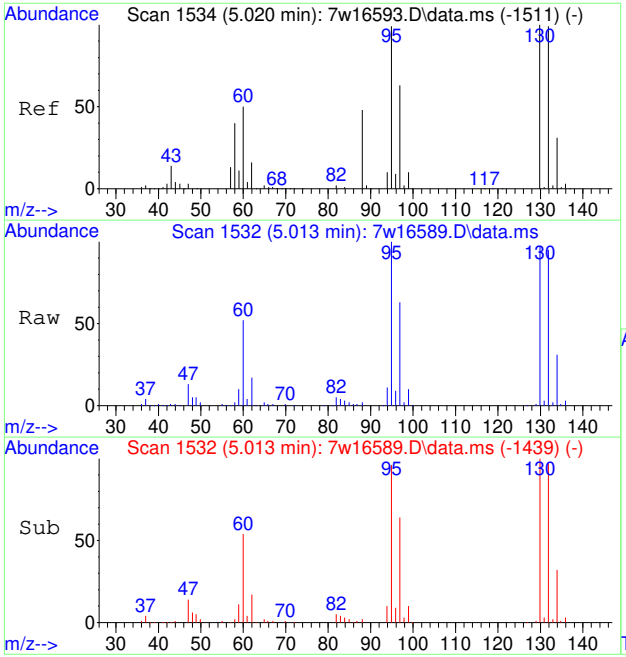


#54
2,3-DIMETHYLPENTANE
Concen: 5.09 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 71 Resp: 44676

Ion	Ratio	Lower	Upper
71	100		
56	304.2	171.4	318.4
85	17.1	12.6	23.4

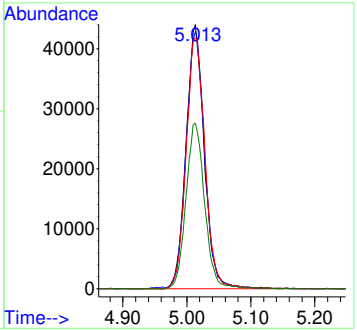


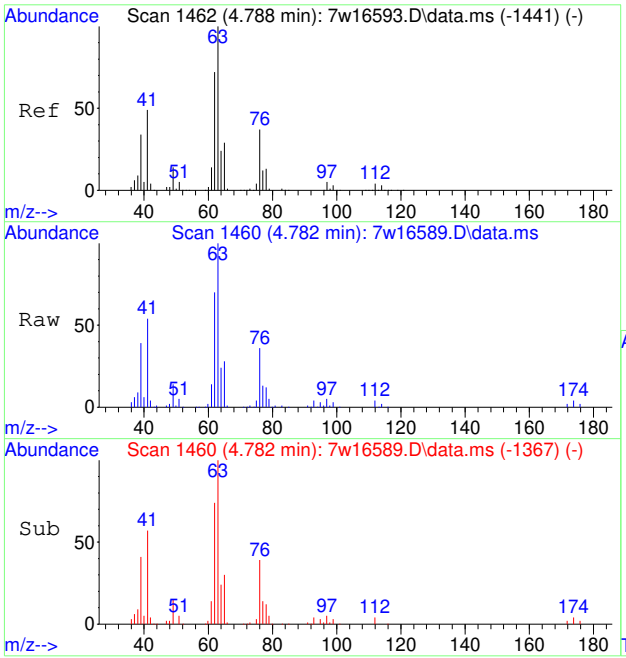


#55
TRICHLOROETHENE
Concen: 4.76 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 95 Resp: 87453

Ion	Ratio	Lower	Upper
95	100		
130	99.4	85.9	159.5
132	98.4	79.4	147.4
97	63.7	45.0	83.6

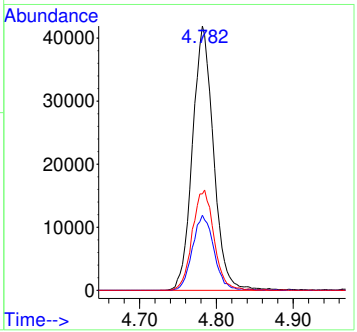


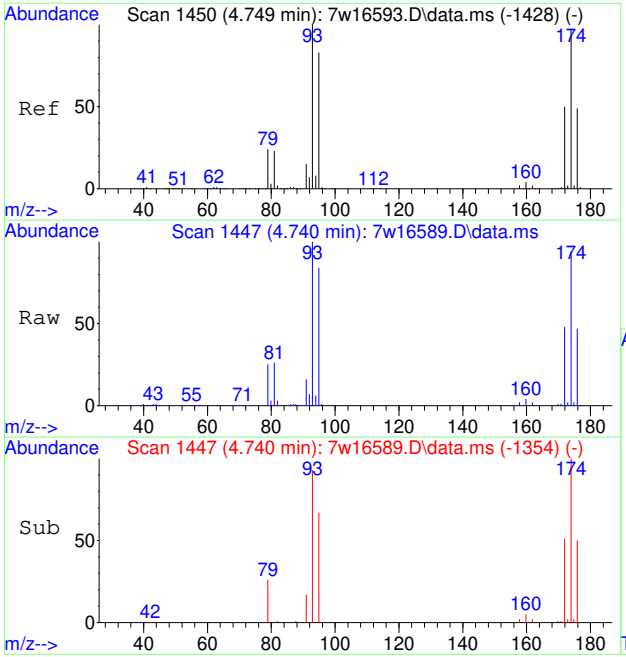


#56
1,2-DICHLOROPROPANE
Concen: 4.94 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 79932

Ion	Ratio	Lower	Upper
63	100		
65	29.2	22.6	42.0
76	39.2	31.8	59.0

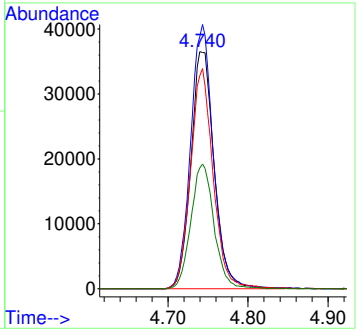


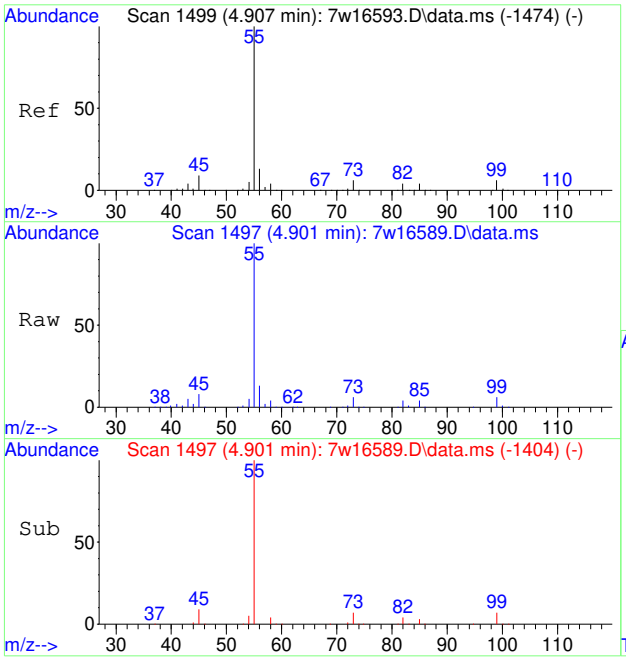


#57
DIBROMOMETHANE
Concen: 4.94 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:174 Resp: 74130

Ion	Ratio	Lower	Upper
174	100		
93	109.1	67.3	125.1
95	90.0	56.8	105.6
172	52.3	36.3	67.5

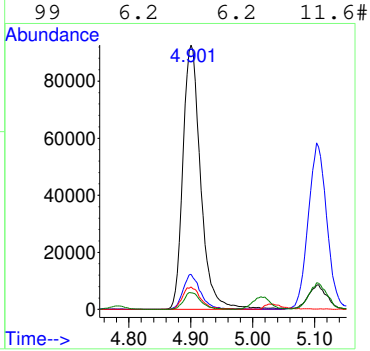


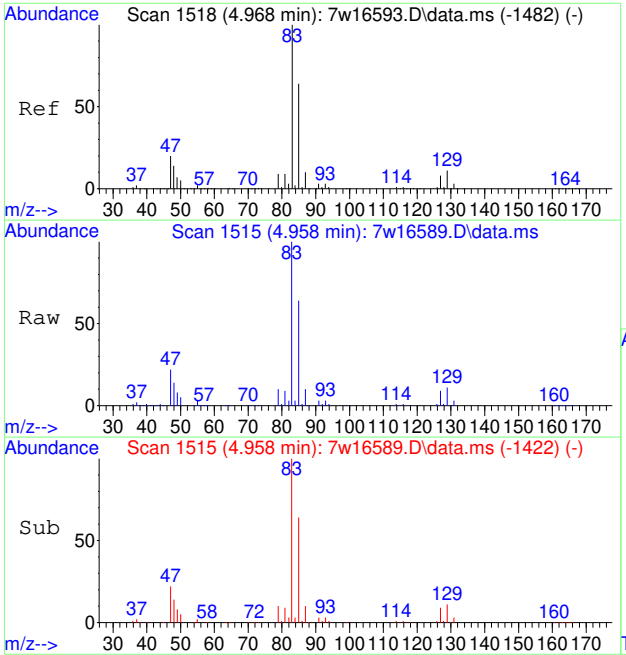


#58
ETHYL ACRYLATE
Concen: 5.03 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 184653

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.8	6.6	12.2
99	6.2	6.2	11.6#

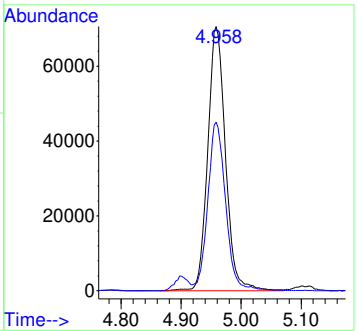


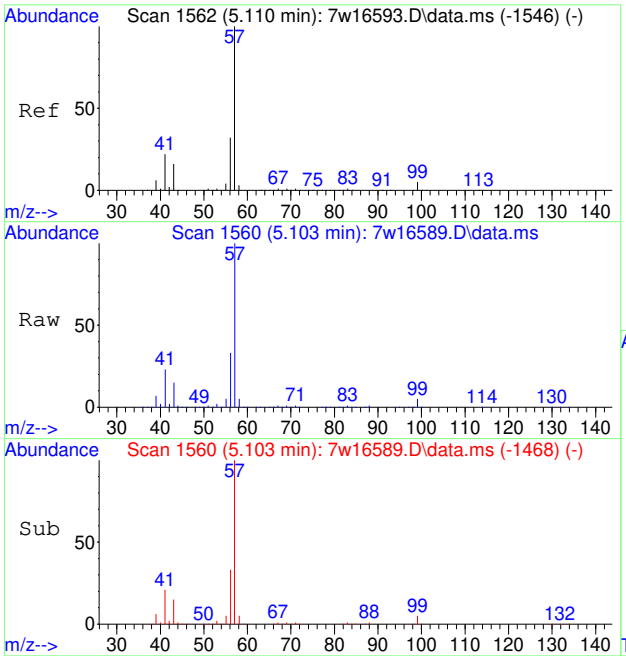


#59
BROMODICHLOROMETHANE
Concen: 4.78 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 145254

Ion	Ratio	Lower	Upper
83	100		
85	64.4	44.9	83.5

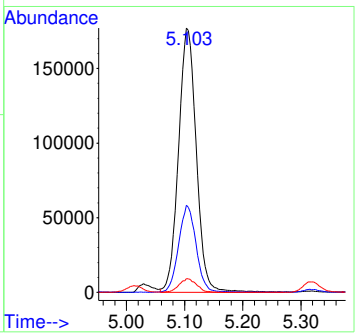


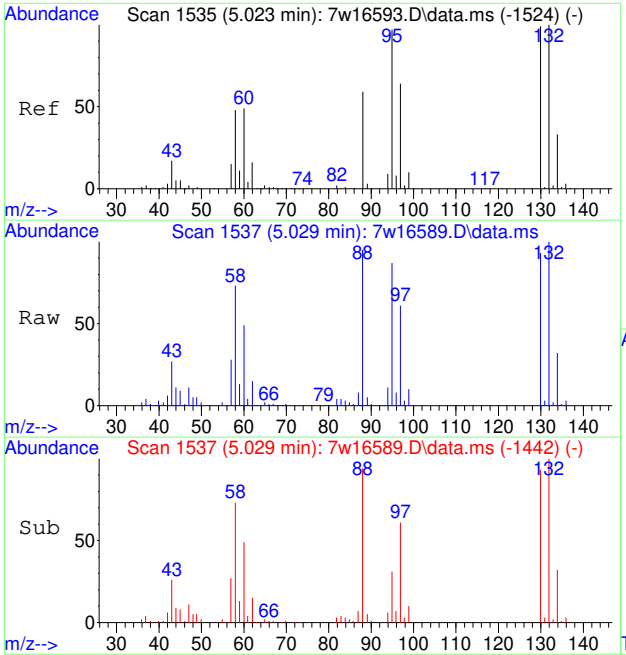


#60
2,2,4-TRIMETHYLPENTANE
Concen: 4.91 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 376202

Ion	Ratio	Lower	Upper
57	100		
56	32.4	24.4	45.2
99	5.1	5.2	9.6#

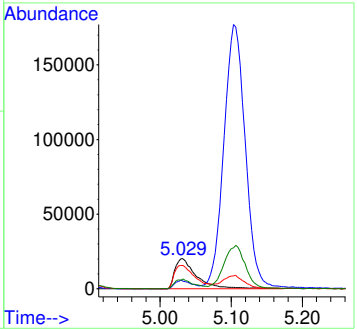


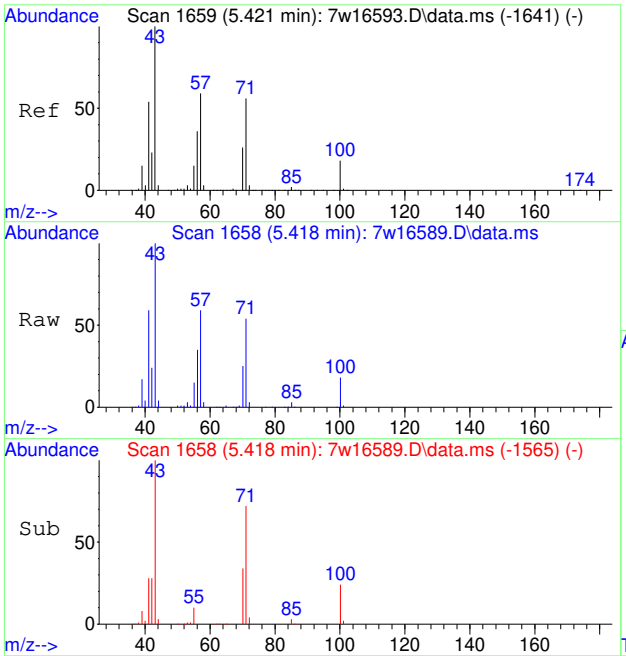


#61
1,4-DIOXANE
Concen: 4.76 PPBV
RT: 5.029 min Scan# 1537
Delta R.T. 0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 88 Resp: 43182

Ion	Ratio	Lower	Upper
88	100		
57	22.6	13.1	24.3
58	75.6	39.1	72.5#
43	27.0	18.3	33.9

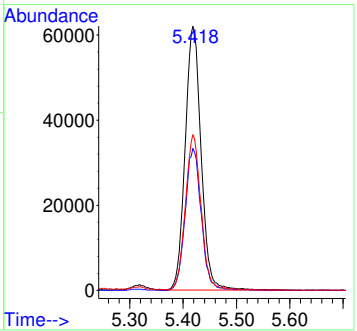


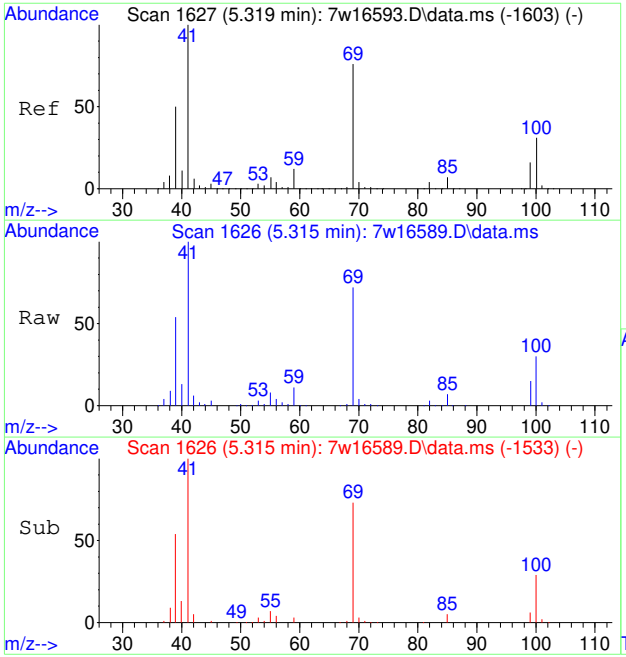


#62
HEPTANE
Concen: 5.06 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 129447

Ion	Ratio	Lower	Upper
43	100		
71	54.3	45.0	83.6
57	58.0	37.2	69.0

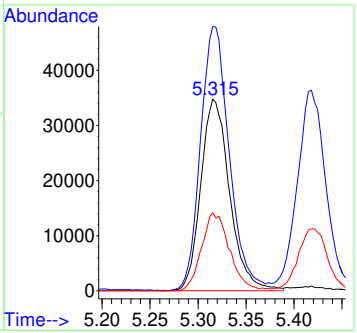


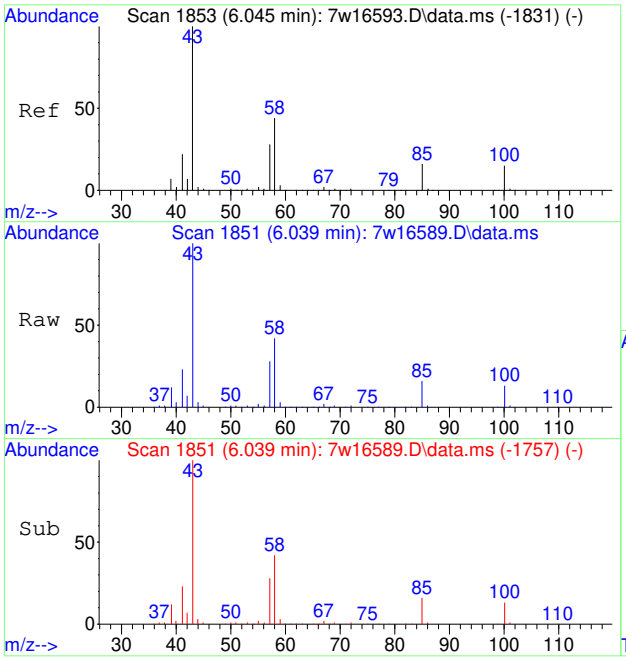


#63
METHYL METHACRYLATE
Concen: 4.95 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 72765

Ion	Ratio	Lower	Upper
69	100		
41	136.6	84.3	156.5
100	39.7	30.8	57.2

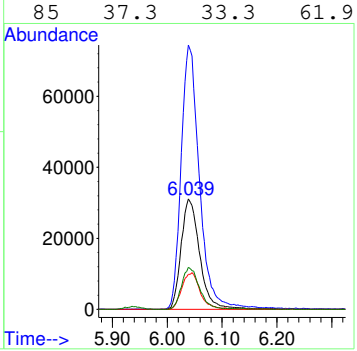


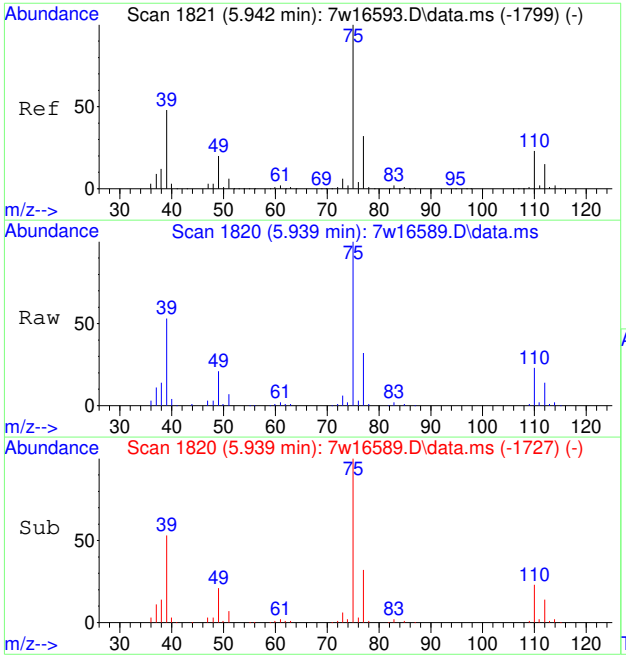


#64
METHYL ISOBUTYL KETONE
Concen: 4.88 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 73624

Ion	Ratio	Lower	Upper
58	100		
43	236.1	193.8	360.0
100	33.1	32.8	60.8
85	37.3	33.3	61.9

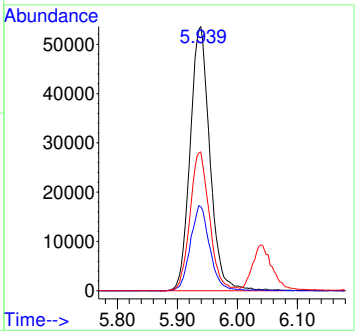


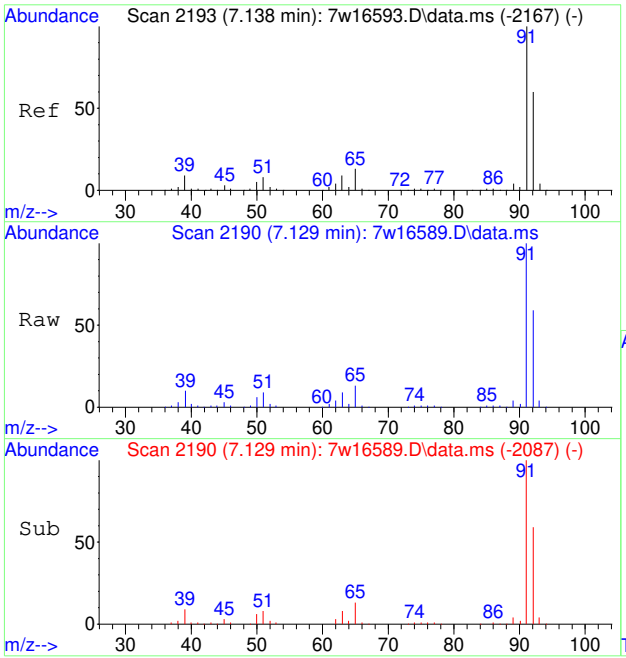


#65
CIS-1,3-DICHLOROPROPENE
Concen: 4.78 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 122774

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.8	38.5	71.5

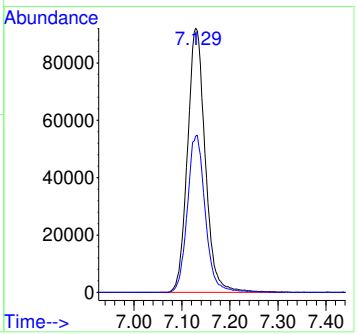


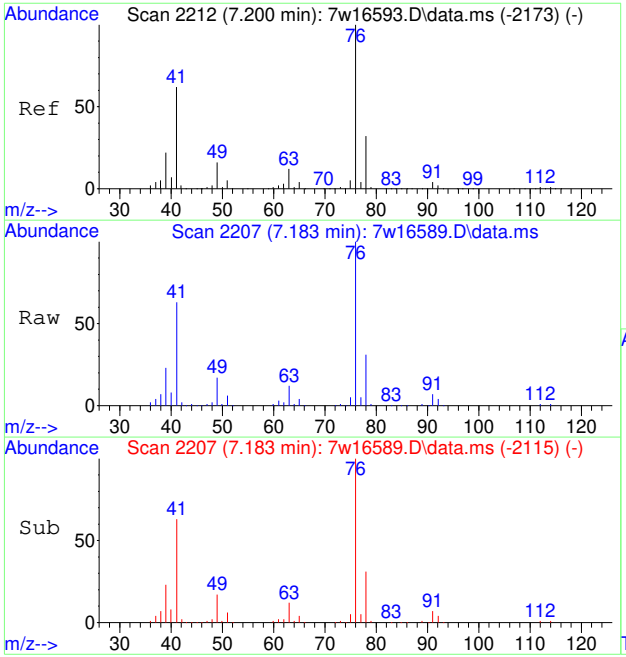


#66
TOLUENE
Concen: 5.09 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 237199

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

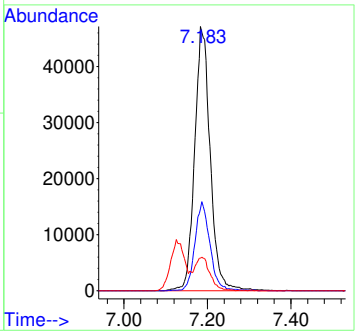


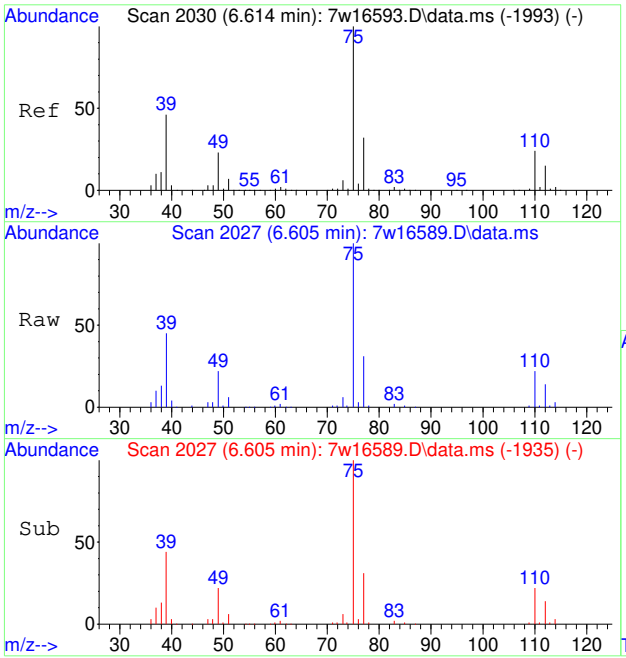


#67
1,3-DICHLOROPROPANE
Concen: 5.06 PPBV
RT: 7.183 min Scan# 2207
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 121971

Ion	Ratio	Lower	Upper
76	100		
78	32.7	22.1	41.1
63	12.0	8.0	14.8

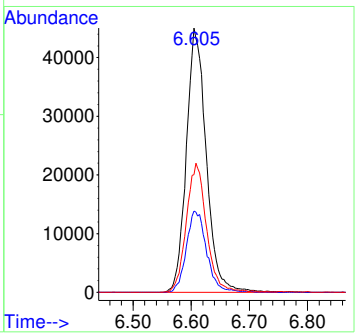


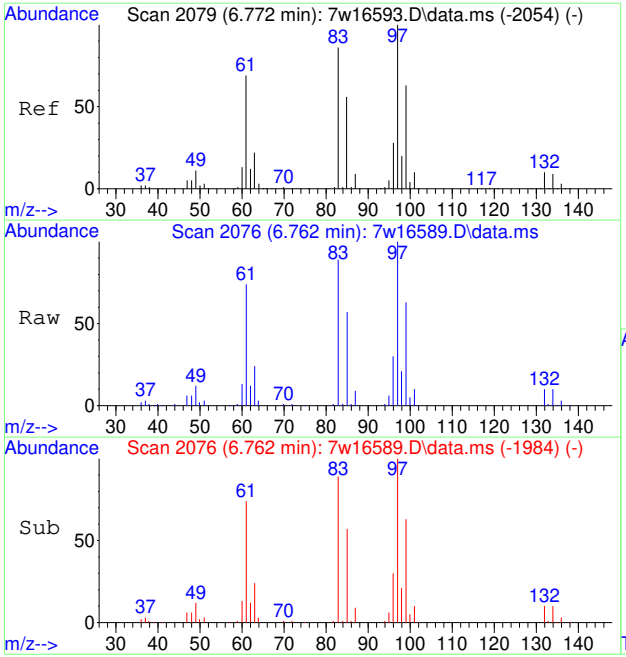


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 4.46 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 107017

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.5	41.7
39	50.0	37.2	69.0

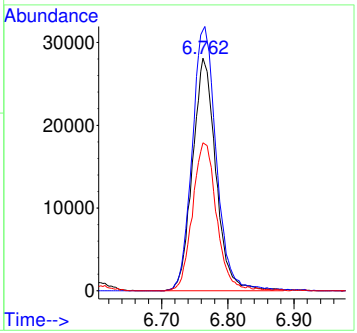


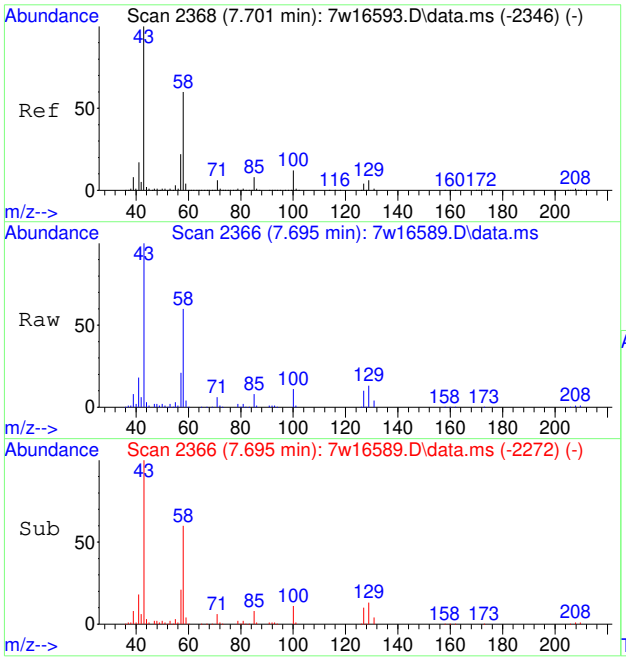


#69
1,1,2-TRICHLOROETHANE
Concen: 5.00 PPBV
RT: 6.762 min Scan# 2076
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 68995

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	65.6	45.5	84.5

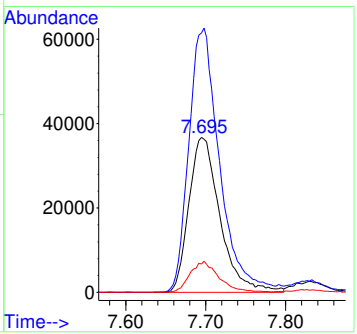


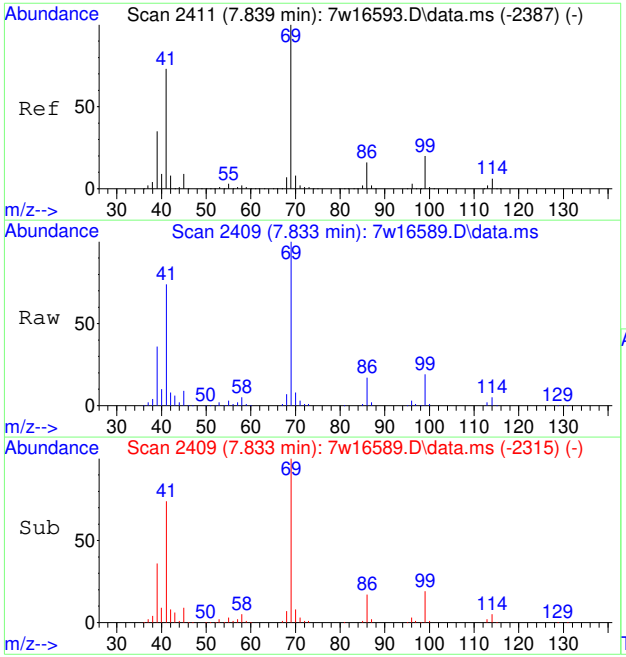


#70
2-HEXANONE
Concen: 5.01 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 99491

Ion	Ratio	Lower	Upper
58	100		
43	169.1	141.7	263.3
100	18.7	18.9	35.1#

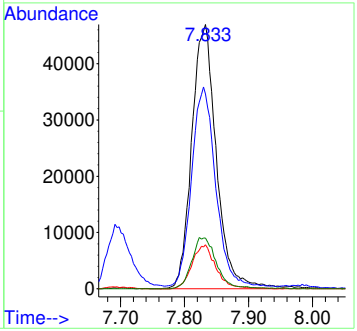


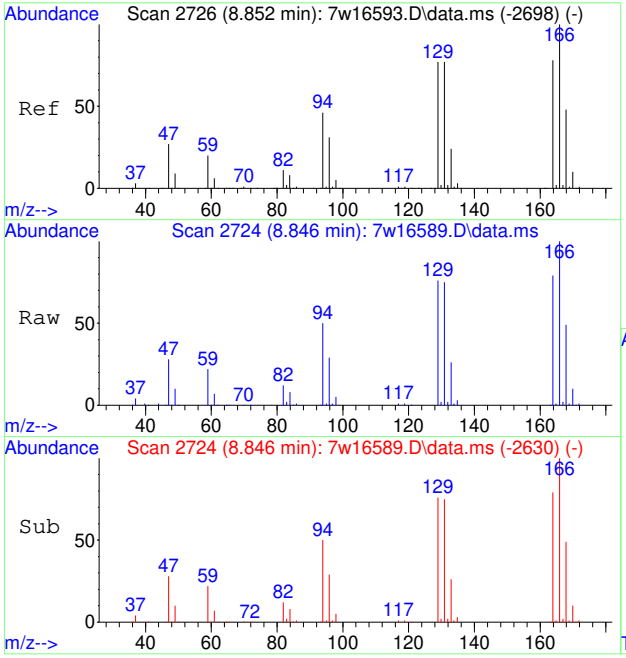


#71
ETHYL METHACRYLATE
Concen: 4.97 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 125849

Ion	Ratio	Lower	Upper
69	100		
41	76.4	49.3	91.6
86	16.1	11.6	21.6
99	19.3	13.4	24.8

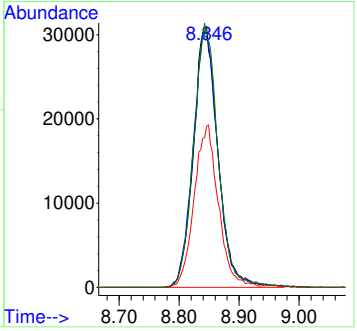


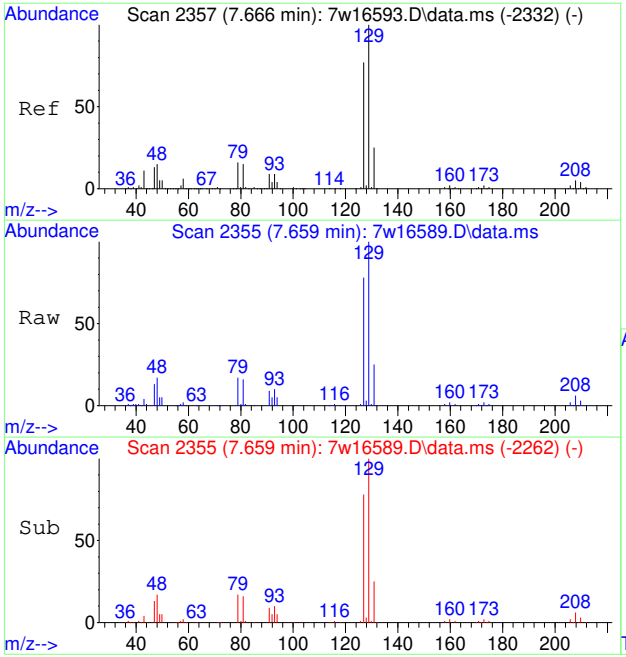


#72
TETRACHLOROETHENE
Concen: 5.13 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:164 Resp: 87888

Ion	Ratio	Lower	Upper
164	100		
129	100.6	69.7	129.5
168	61.3	43.4	80.6
131	100.9	67.1	124.5

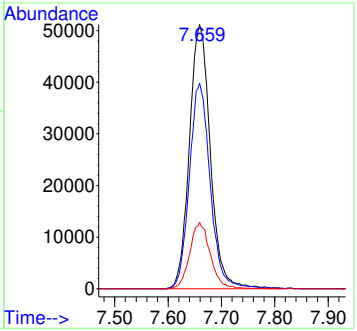


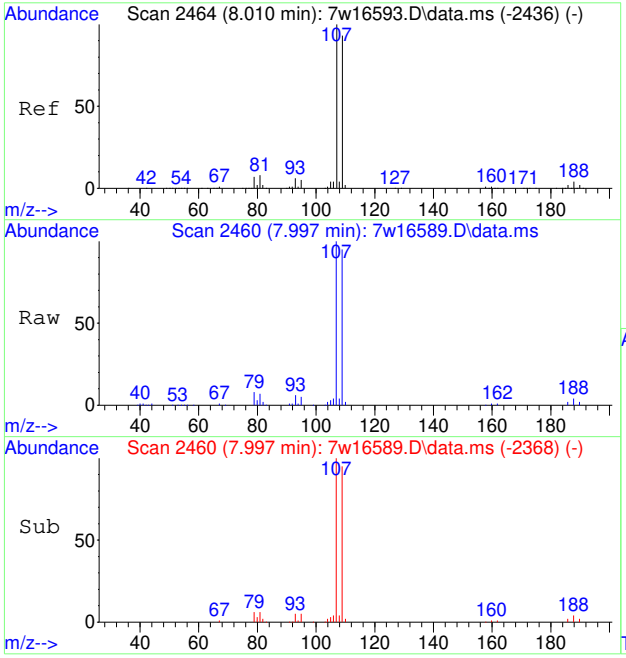


#73
DIBROMOCHLOROMETHANE
Concen: 4.88 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:129 Resp: 139976

Ion	Ratio	Lower	Upper
129	100		
127	77.4	53.0	98.4
131	24.6	16.9	31.3

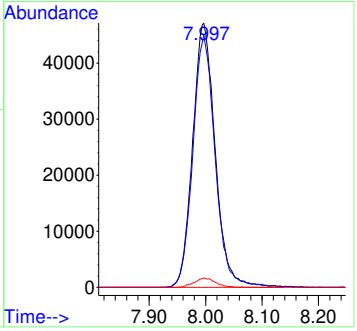


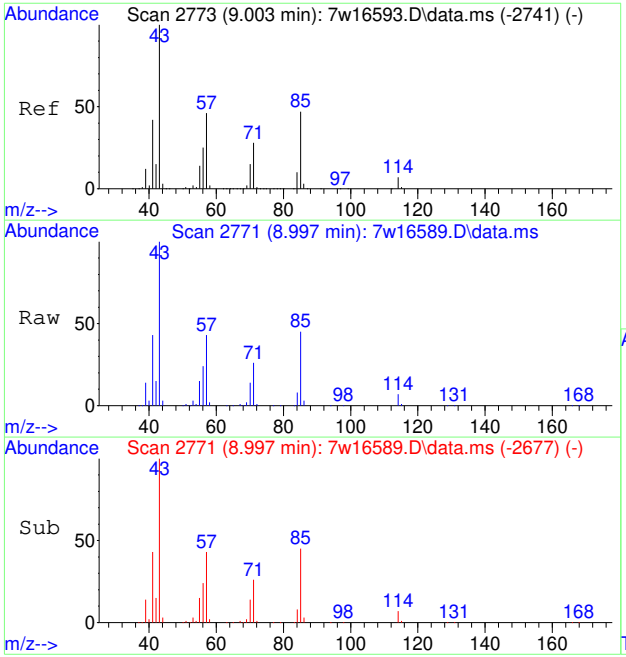


#74
1,2-DIBROMOETHANE
Concen: 5.30 PPBV
RT: 7.997 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:107 Resp: 130464

Ion	Ratio	Lower	Upper
107	100		
109	94.7	65.7	122.1
188	3.4	2.4	4.4

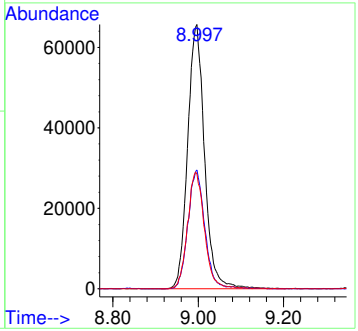


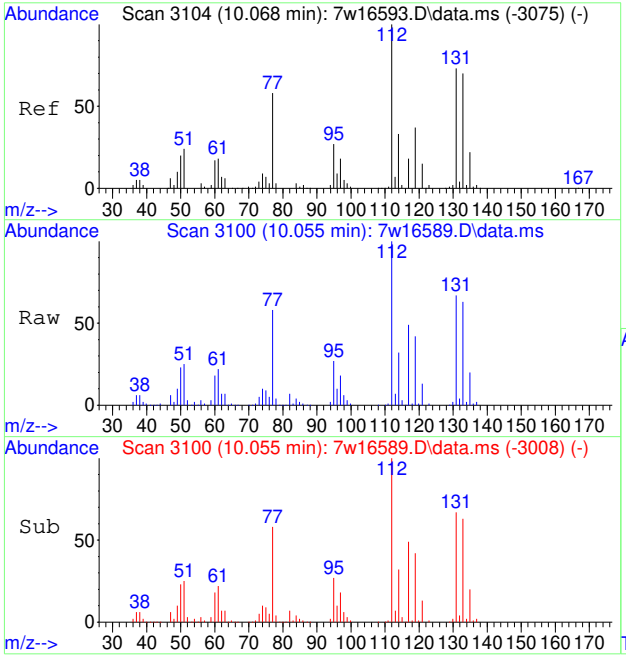


#75
OCTANE
Concen: 5.16 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 180997

Ion	Ratio	Lower	Upper
43	100		
85	45.1	36.5	67.9
57	44.3	27.6	51.2

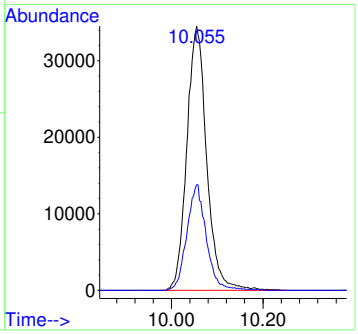


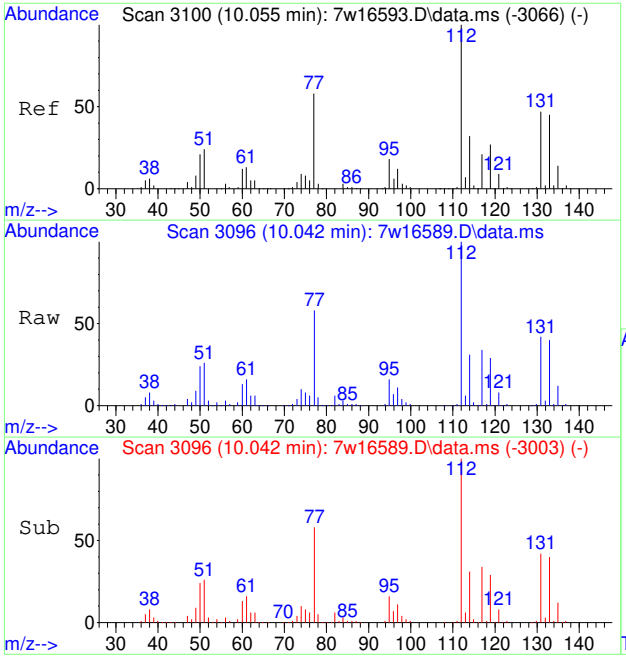


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.17 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:131 Resp: 104080

Ion	Ratio	Lower	Upper
131	100		
95	39.0	23.7	43.9

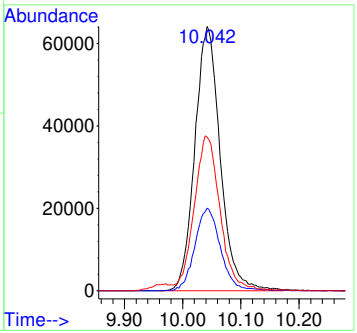


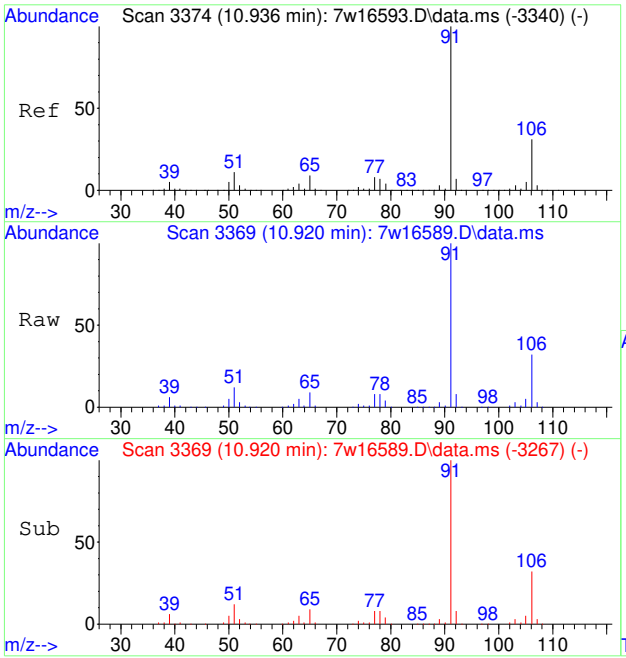


#78
CHLOROBENZENE
Concen: 5.29 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:112 Resp: 194976

Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.9	42.5
77	60.2	34.4	63.8

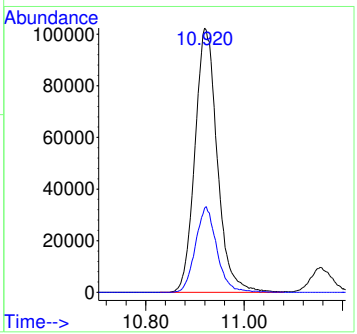


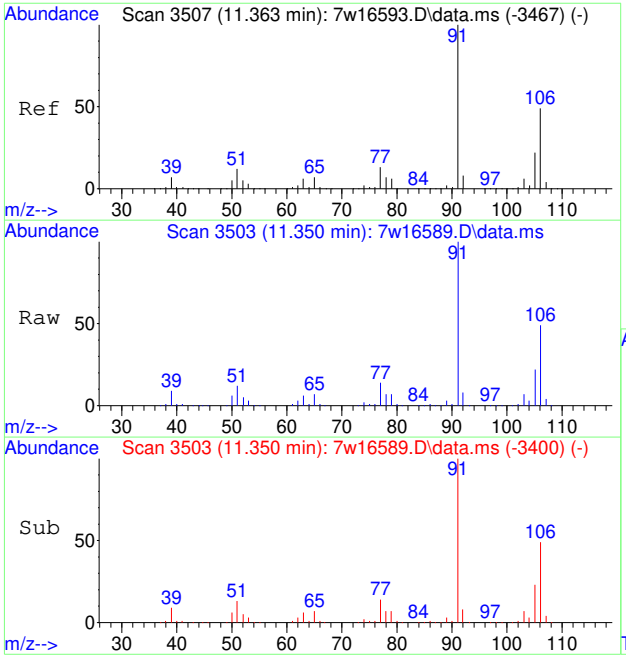


#79
ETHYLBENZENE
Concen: 5.30 PPBV
RT: 10.920 min Scan# 3369
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 322003

Ion	Ratio	Lower	Upper
91	100		
106	31.2	2.8	62.8

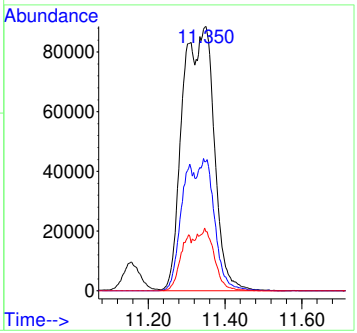


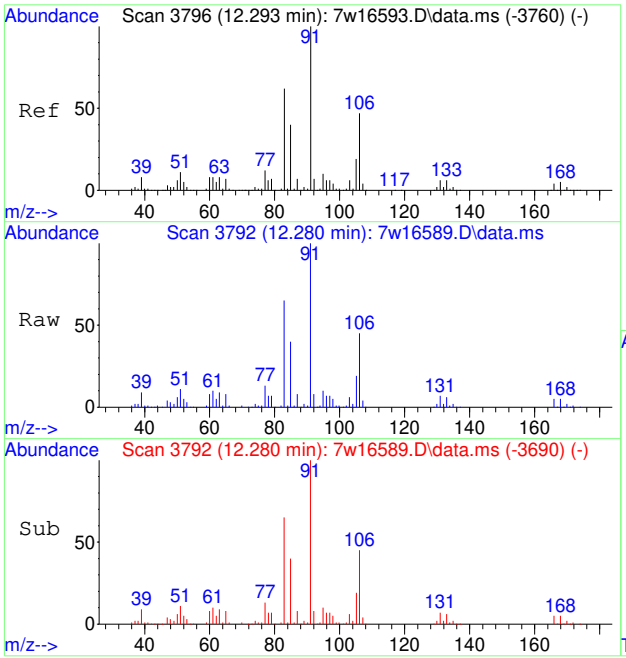


#80
M,P-XYLENE
Concen: 10.38 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 506054

Ion	Ratio	Lower	Upper
91	100		
106	28.2	0.0	58.7
105	12.9	0.0	43.2

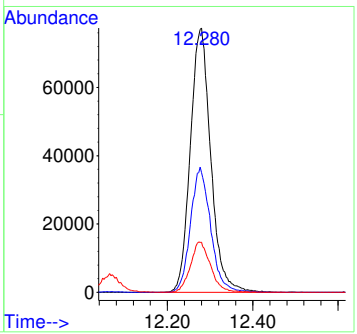


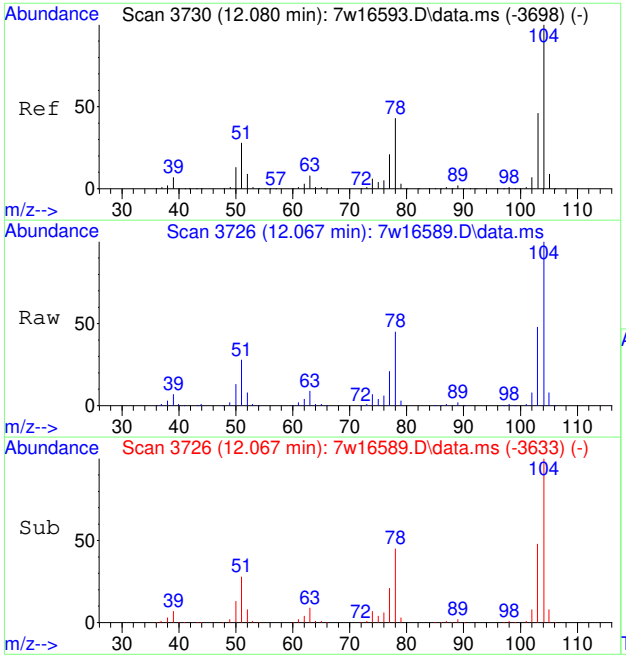


#81
O-XYLENE
Concen: 5.40 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 257748

Ion	Ratio	Lower	Upper
91	100		
106	45.3	34.1	63.3
105	19.0	14.6	27.2

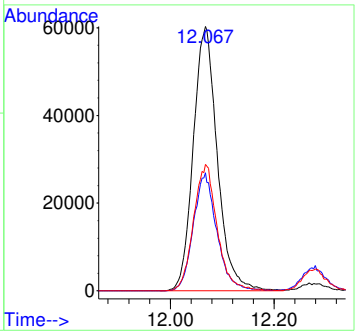


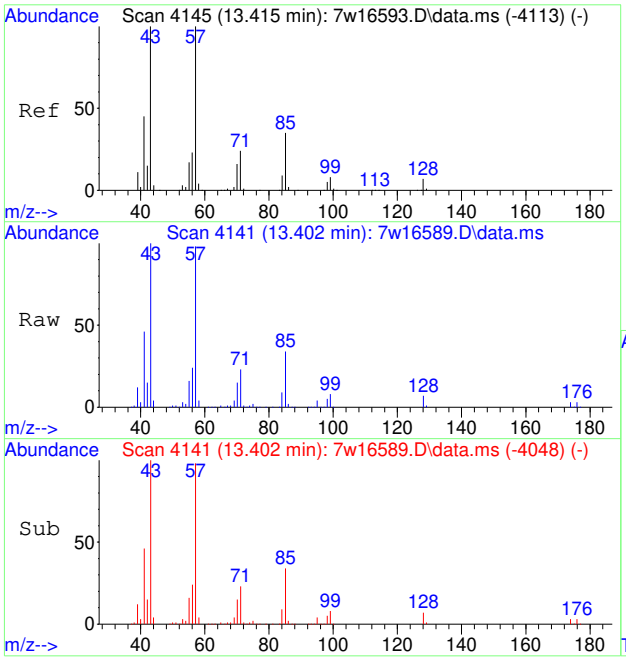


#82
STYRENE
Concen: 5.23 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:104 Resp: 194546

Ion	Ratio	Lower	Upper
104	100		
78	43.5	25.3	46.9
103	47.1	33.2	61.7

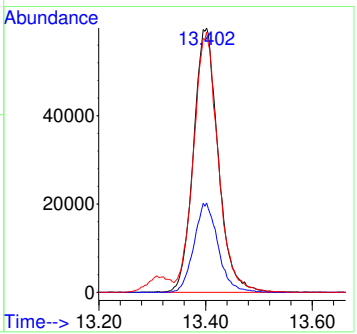


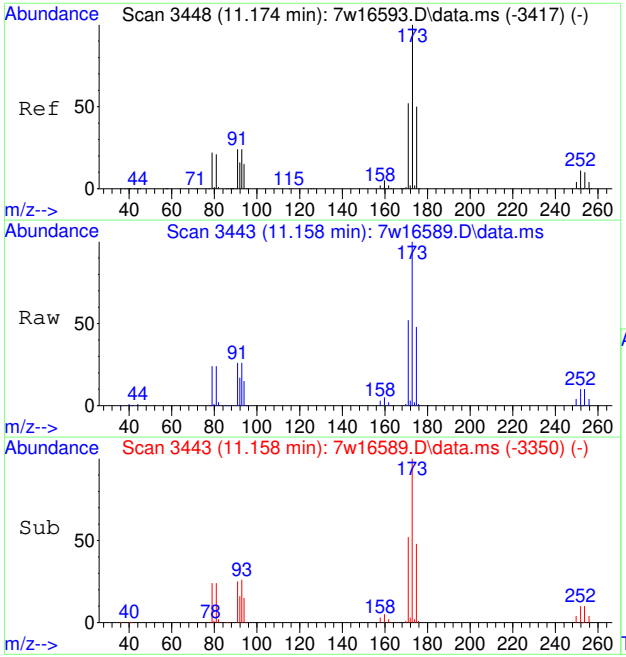


#83
NONANE
Concen: 5.27 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 192916

Ion	Ratio	Lower	Upper
43	100		
85	33.0	27.6	51.2
57	98.1	56.4	104.7

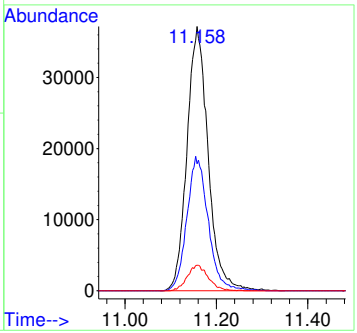


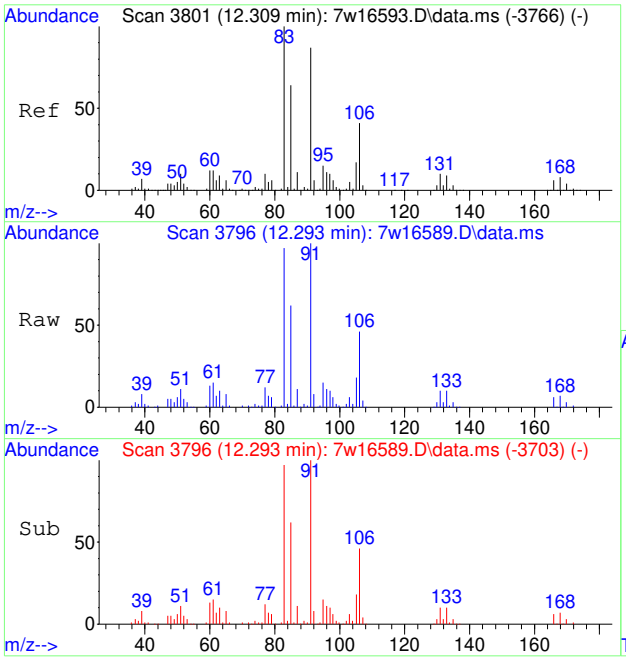


#84
BROMOFORM
Concen: 4.90 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:173 Resp: 119167

Ion	Ratio	Lower	Upper
173	100		
175	51.2	33.0	61.4
254	9.7	5.9	10.9

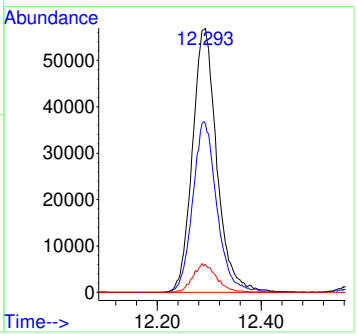


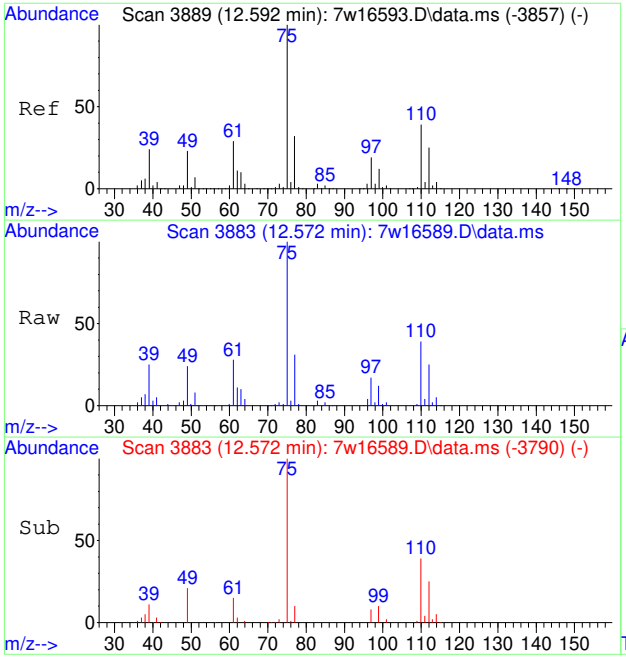


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 5.35 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 186265

Ion	Ratio	Lower	Upper
83	100		
85	64.3	44.6	82.8
131	10.6	8.0	14.8

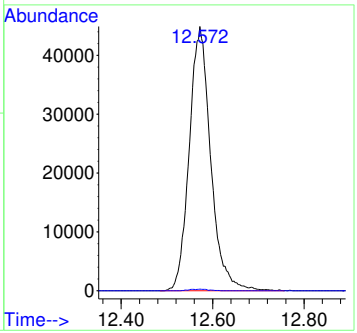


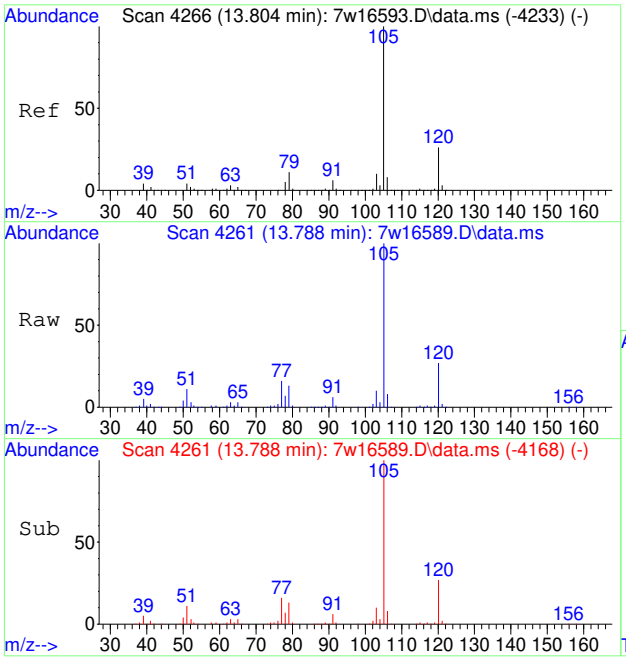


#86
1,2,3-TRICHLOROPROPANE
Concen: 5.34 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 146270

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

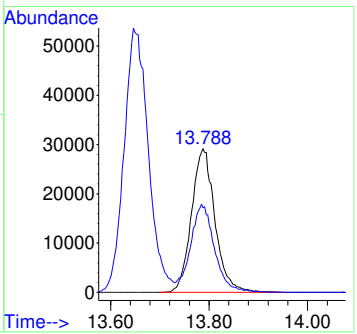


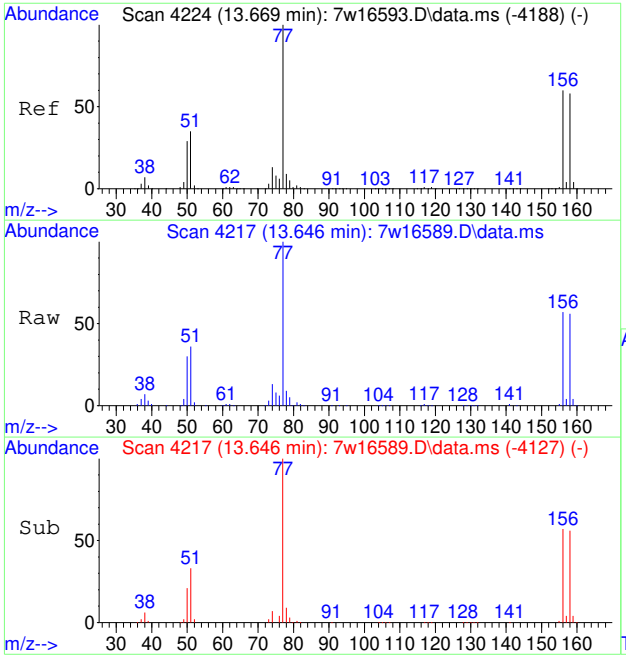


#88
ISOPROPYLBENZENE
Concen: 5.28 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 96509

Ion	Ratio	Lower	Upper
120	100		
77	62.3	36.0	67.0

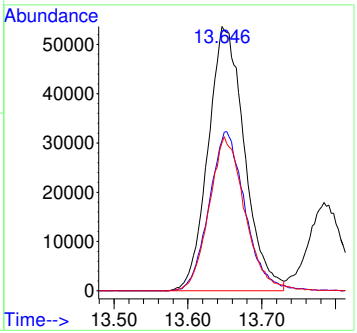


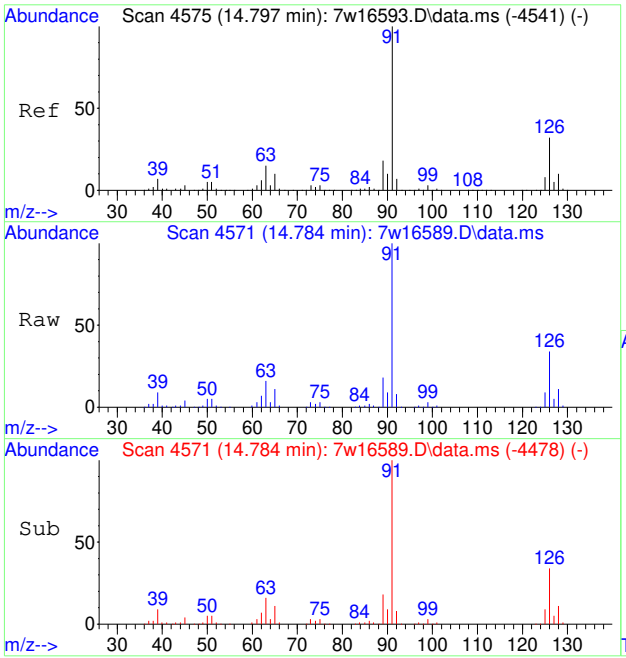


#89
BROMOBENZENE
Concen: 5.30 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 77 Resp: 183496

Ion	Ratio	Lower	Upper
77	100		
156	59.7	57.9	107.5
158	57.4	55.7	103.5

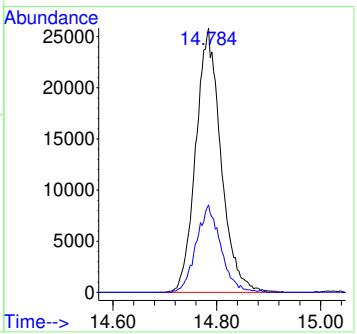


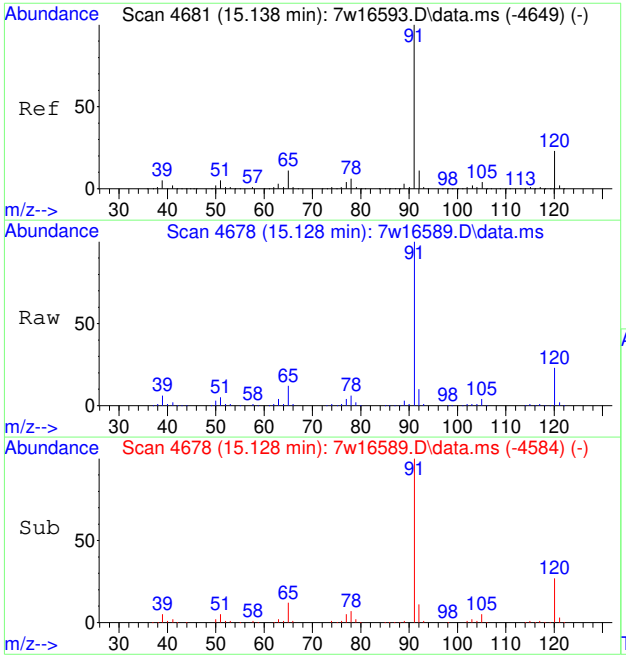


#90
2-CHLOROTOLUENE
Concen: 5.02 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:126 Resp: 86951

Ion	Ratio	Lower	Upper
126	100		
128	32.5	22.7	42.1

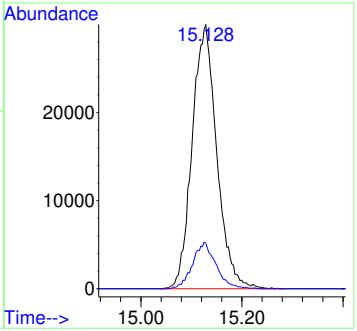


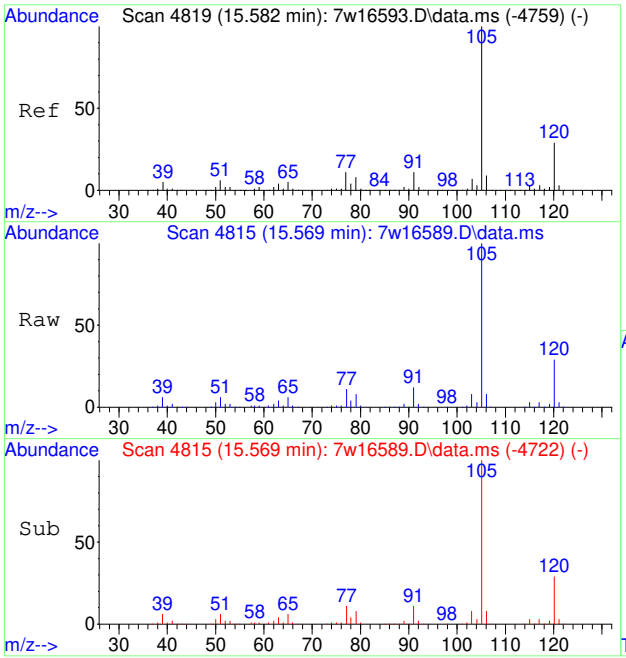


#91
N-PROPYLBENZENE
Concen: 5.12 PPBV
RT: 15.128 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 101472

Ion	Ratio	Lower	Upper
120	100		
105	16.7	10.6	19.6

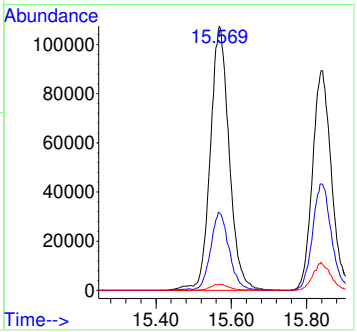


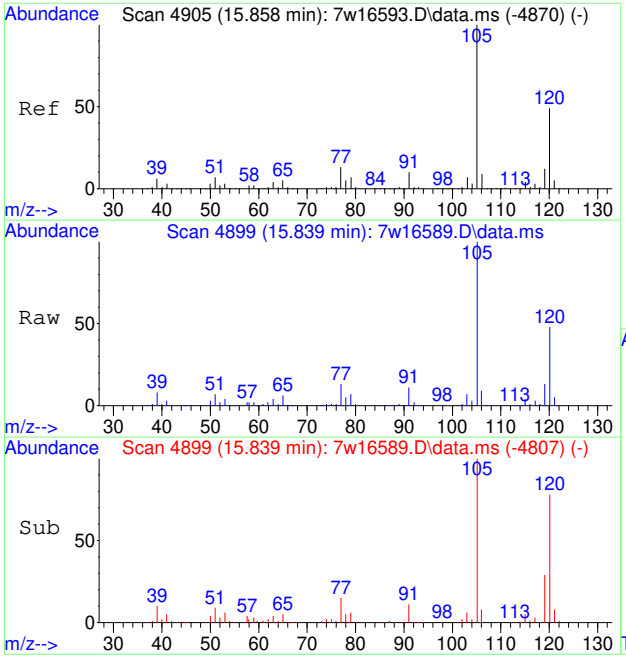


#92
4-ETHYLTOLUENE
Concen: 5.20 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 373811

Ion	Ratio	Lower	Upper
105	100		
120	29.3	21.8	40.4
119	2.4	1.7	3.1

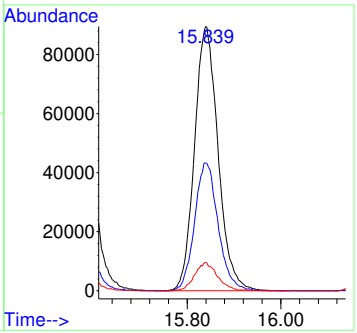


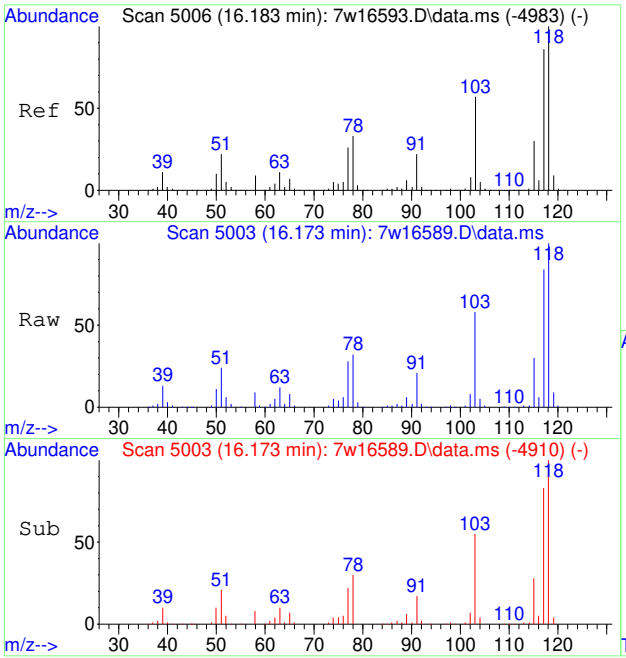


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.22 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 312677

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.5	7.5	13.9

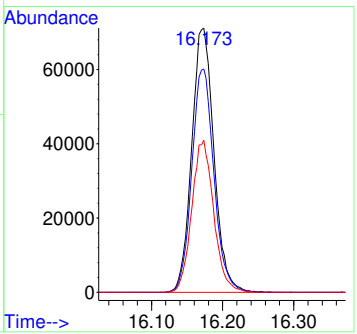


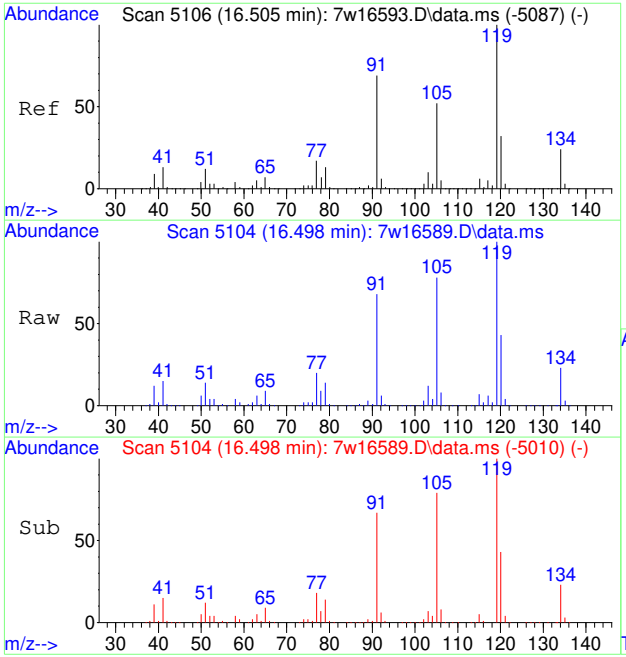


#94
ALPHA-METHYLSTYRENE
Concen: 5.06 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:118 Resp: 154689

Ion	Ratio	Lower	Upper
118	100		
117	84.3	59.9	111.3
103	56.7	36.2	67.2

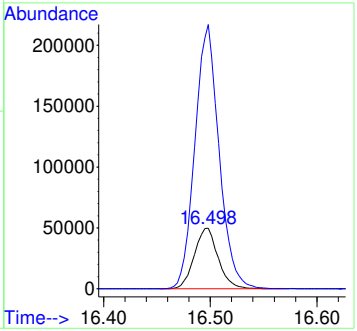


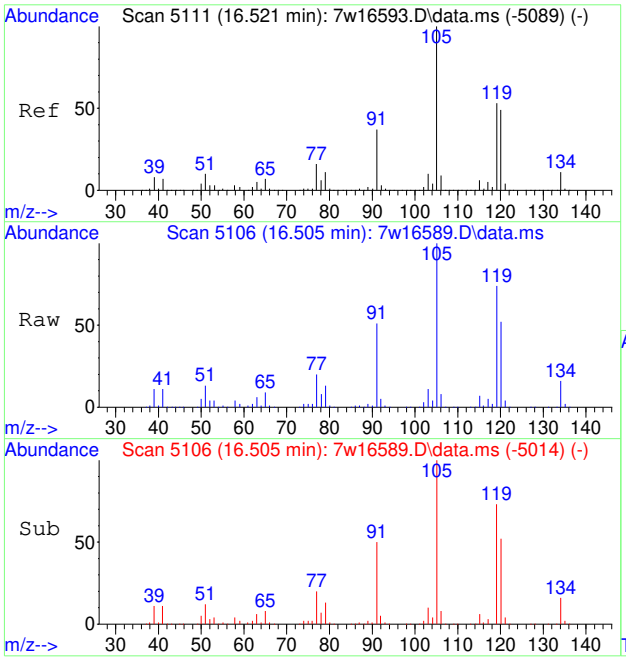


#95
TERT-BUTYLBENZENE
Concen: 5.33 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 77024

Ion	Ratio	Lower	Upper
134	100		
119	443.6	307.9	571.7

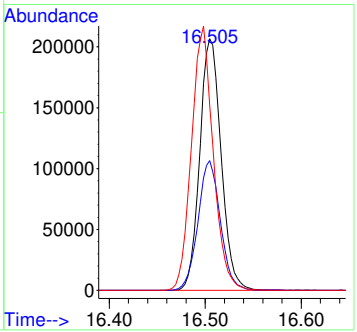


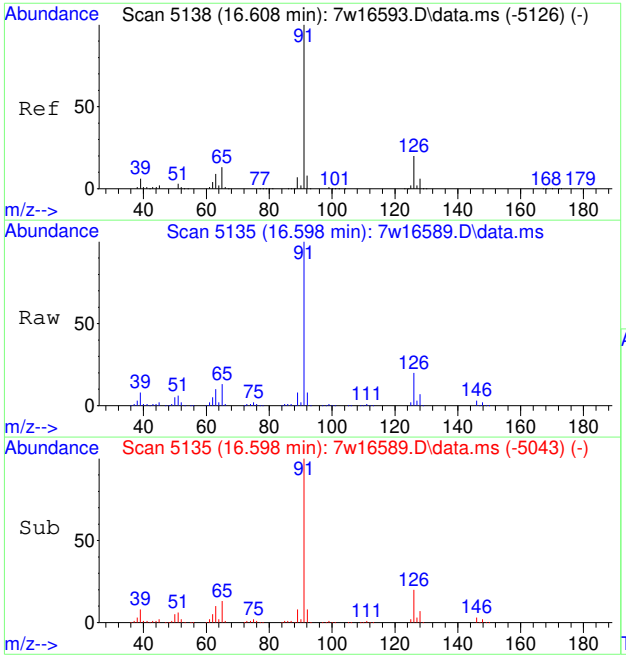


#96
1,2,4-TRIMETHYLBENZENE
Concen: 5.29 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 320531

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	106.6	78.0	144.8

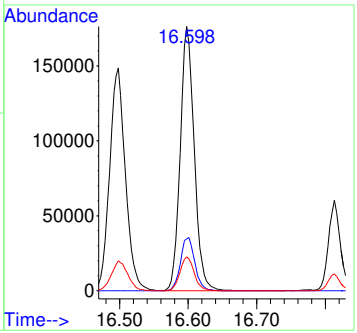


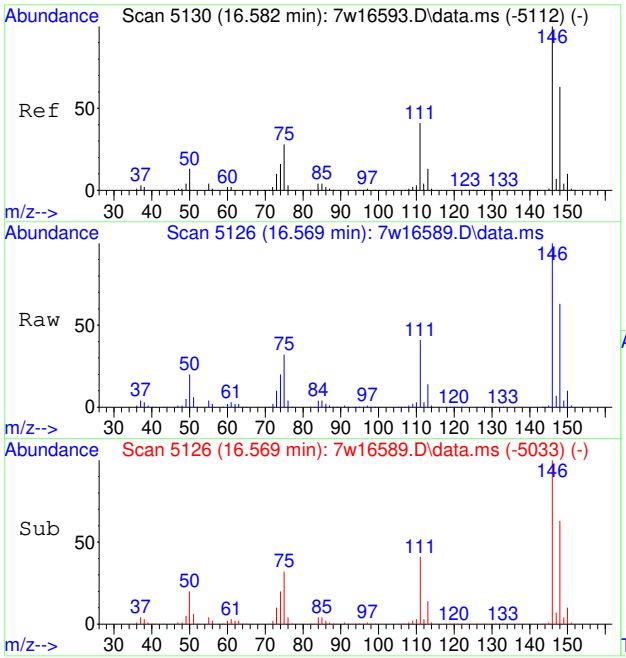


#97
BENZYL CHLORIDE
Concen: 4.80 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 250636

Ion	Ratio	Lower	Upper
91	100		
126	20.7	17.2	32.0
65	13.1	7.3	13.7

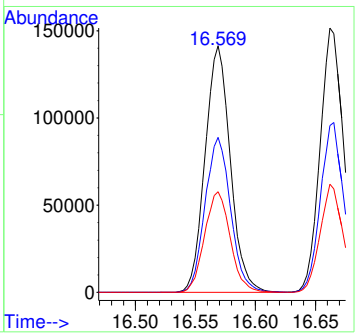


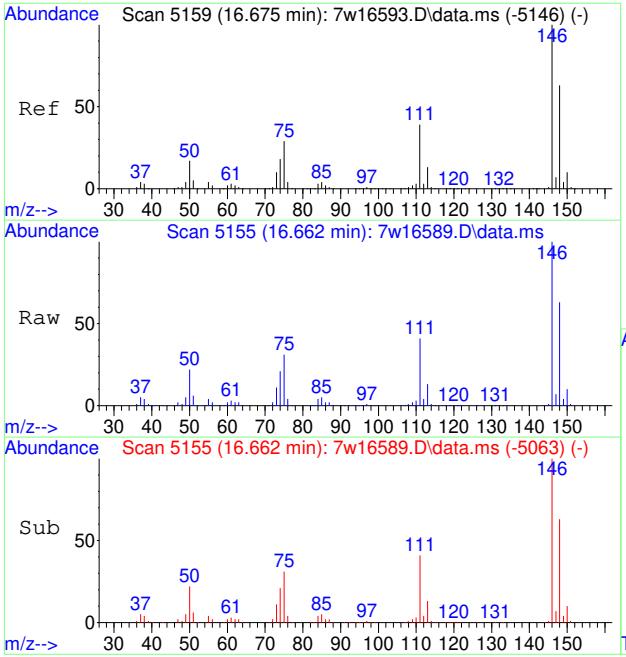


#98
M-DICHLOROBENZENE
Concen: 5.11 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 206691

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.7	25.4	47.2

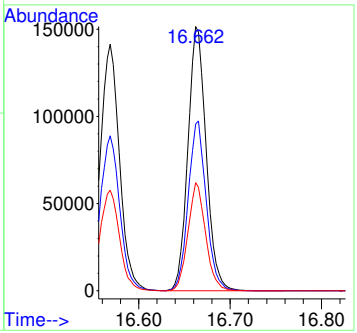


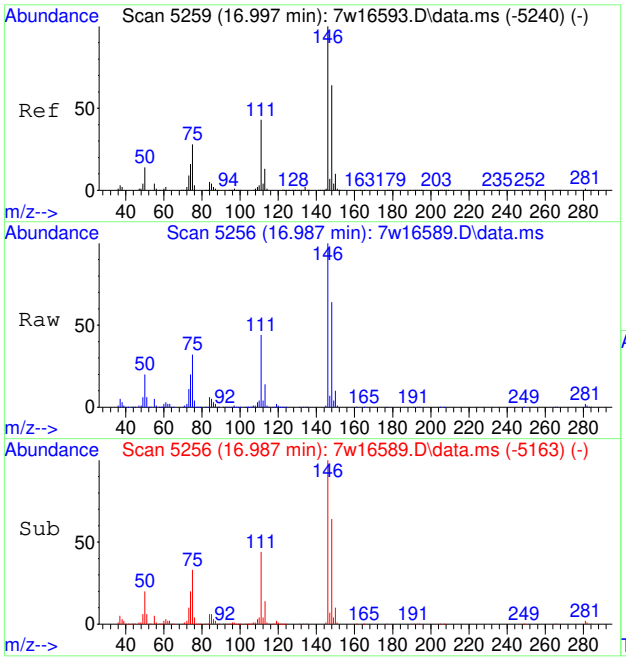


#99
P-DICHLOROBENZENE
Concen: 5.27 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 210041

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	39.5	24.8	46.1

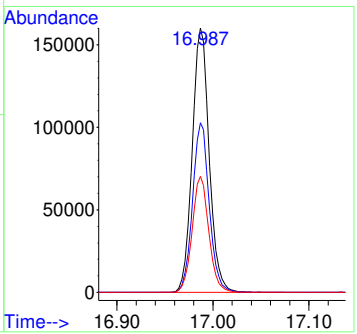


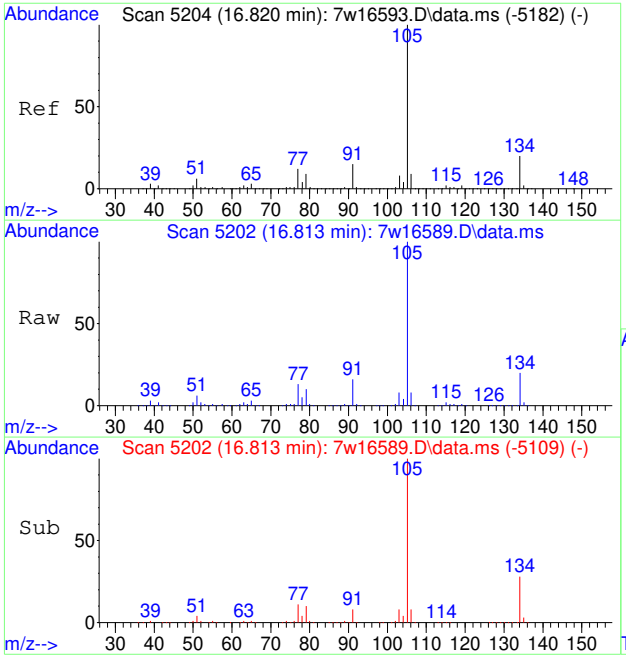


#100
O-DICHLOROBENZENE
Concen: 5.24 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 196281

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.2	26.9	50.1

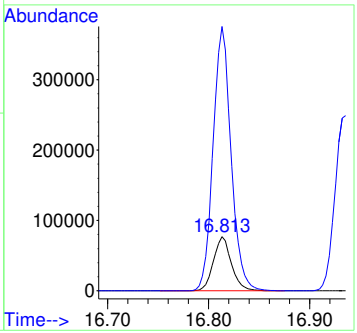


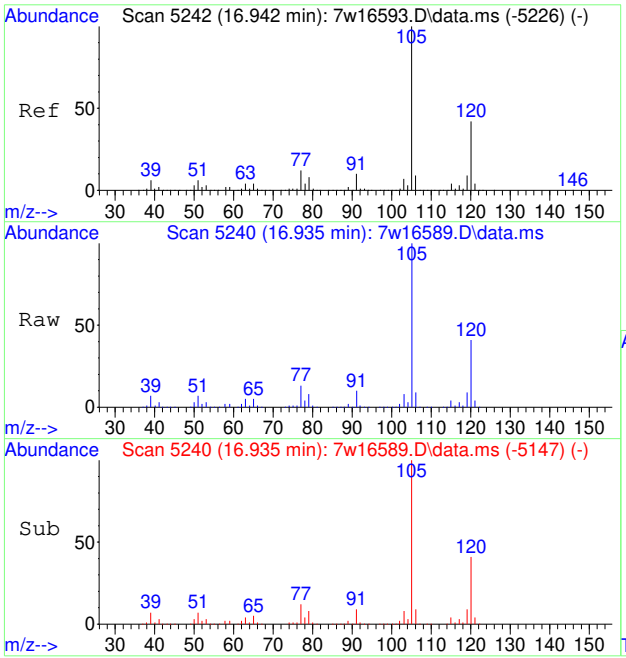


#101
SEC-BUTYLBENZENE
Concen: 5.43 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 94529

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

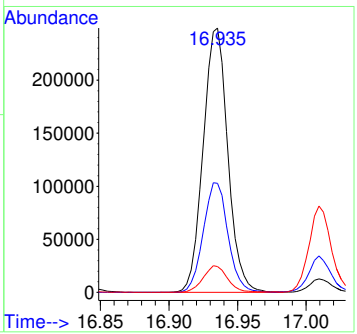


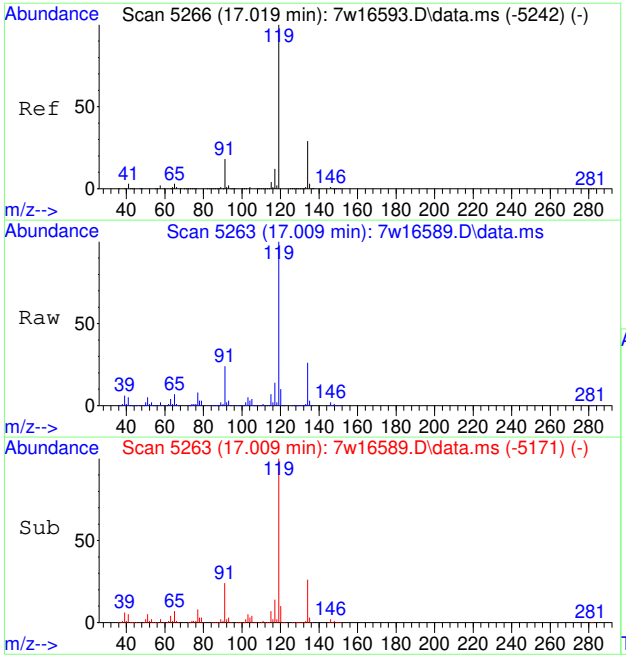


#102
1,2,3-TRIMETHYLBENZENE
Concen: 5.23 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 310890

Ion	Ratio	Lower	Upper
105	100		
120	41.6	31.9	59.2
91	10.1	7.3	13.5

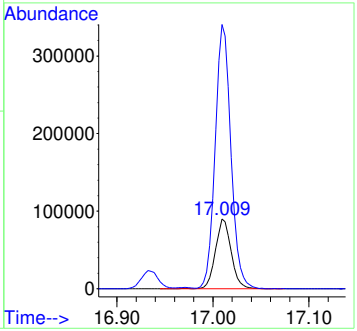


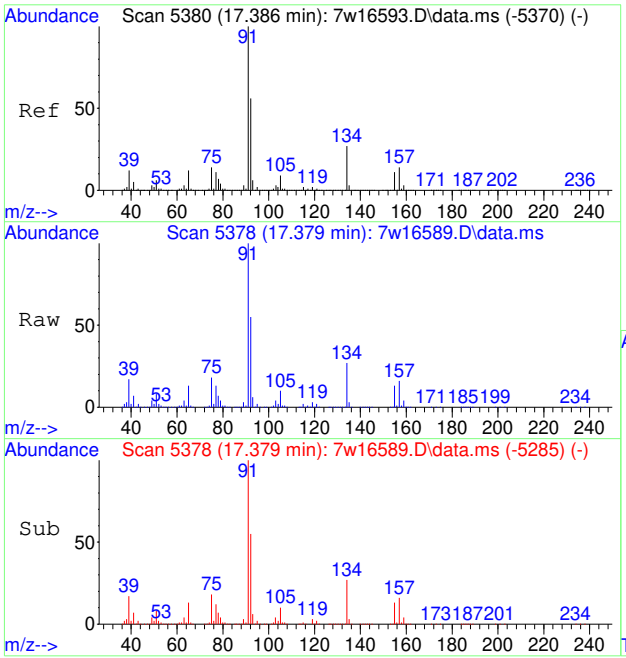


#103
P-ISOPROPYLTOLUENE
Concen: 5.24 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 102620

Ion	Ratio	Lower	Upper
134	100		
119	378.3	253.7	471.3

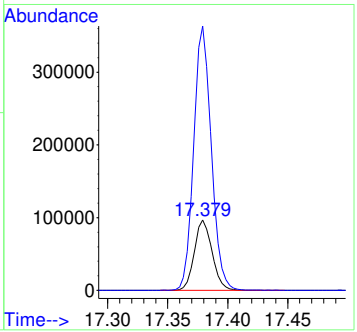


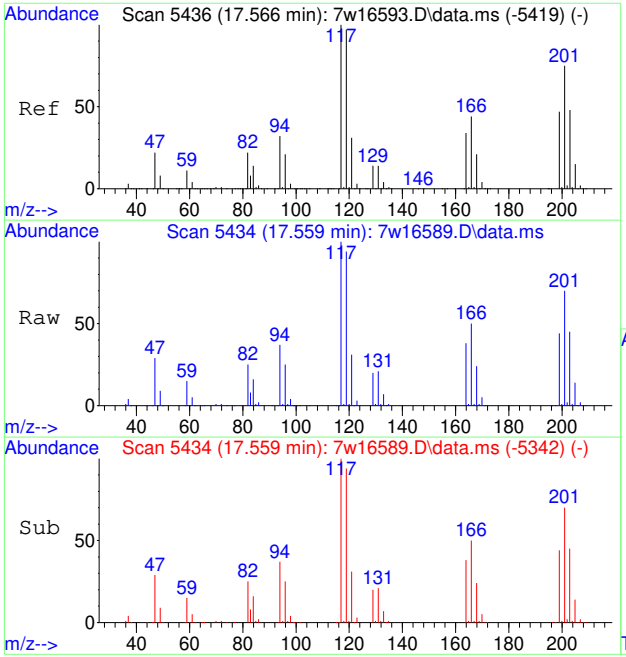


#104
N-BUTYLBENZENE
Concen: 5.28 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 99471

Ion	Ratio	Lower	Upper
134	100		
91	373.3	231.1	429.1

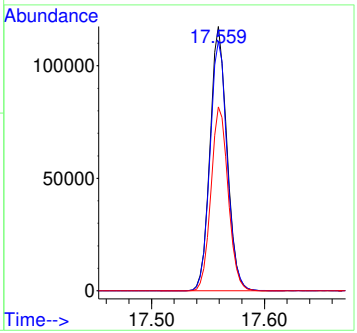


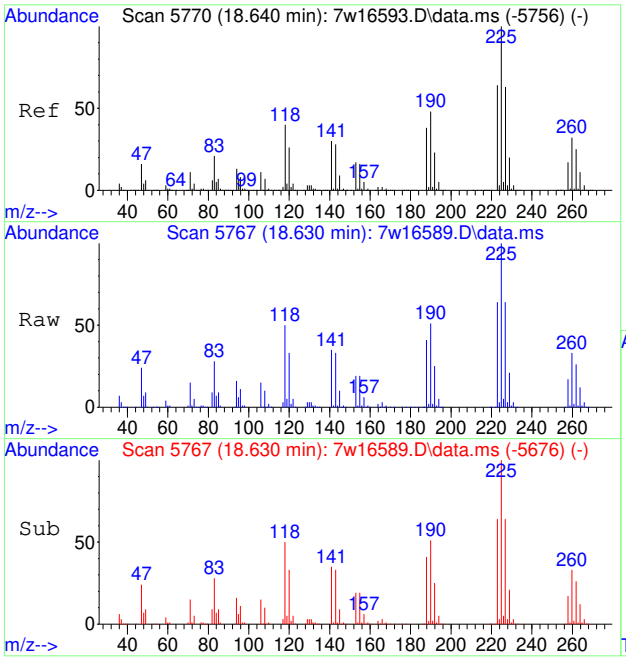


#105
HEXACHLOROETHANE
Concen: 5.22 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 121985

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	70.5	45.9	85.3

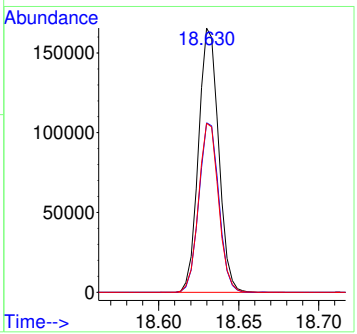


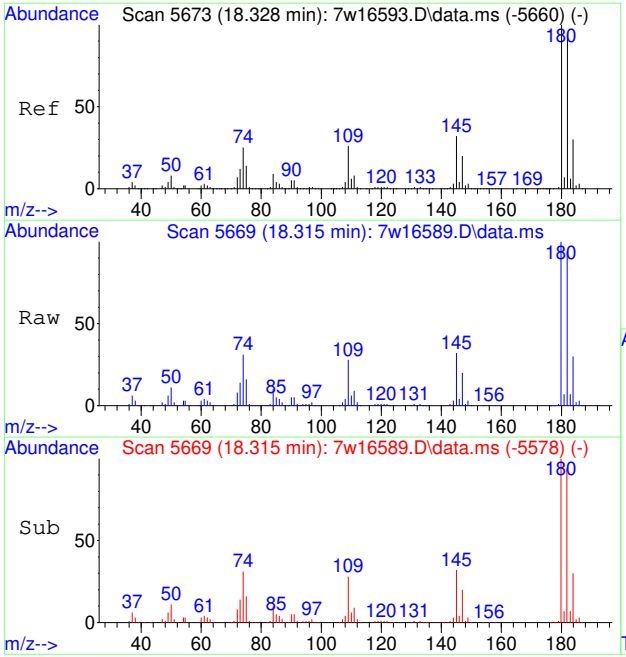


#106
HEXACHLOROBUTADIENE
Concen: 5.62 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:225 Resp: 144324

Ion	Ratio	Lower	Upper
225	100		
227	63.8	44.4	82.5
223	63.5	44.7	83.1

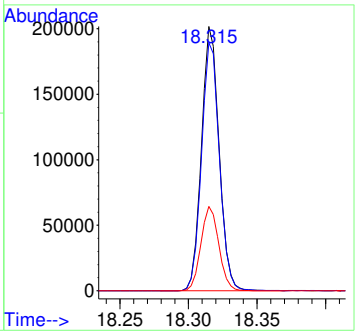


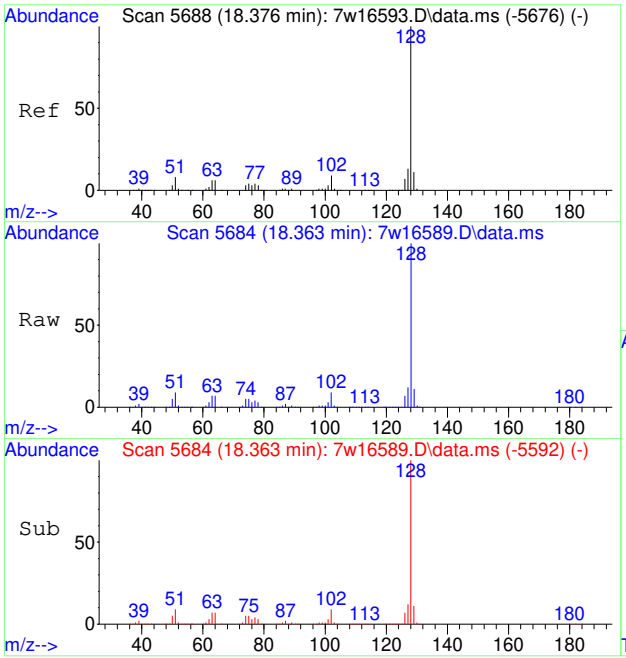


#107
1,2,4-TRICHLOROBENZENE
Concen: 5.43 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:180 Resp: 179655

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.5	23.1	42.9

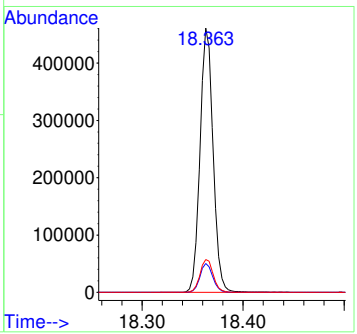


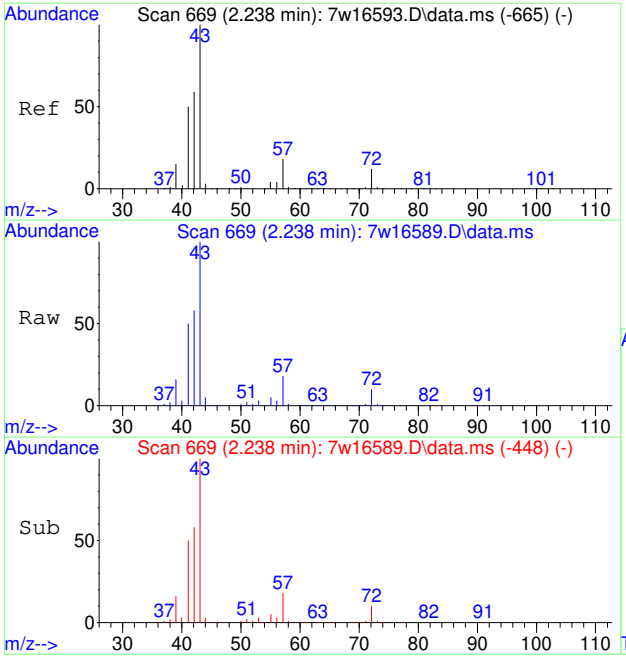


#108
NAPHTHALENE
Concen: 5.36 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:128 Resp: 413175

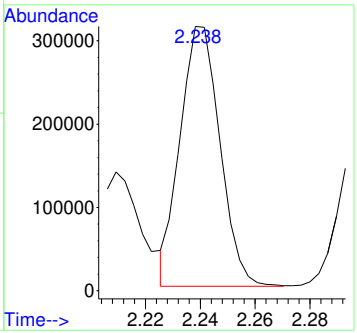
Ion	Ratio	Lower	Upper
128	100		
129	10.8	7.3	13.7
127	12.6	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 5.18 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:TIC Resp: 315100



7.7.17

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16589.D
Injection Time: 08/07/25 12:29

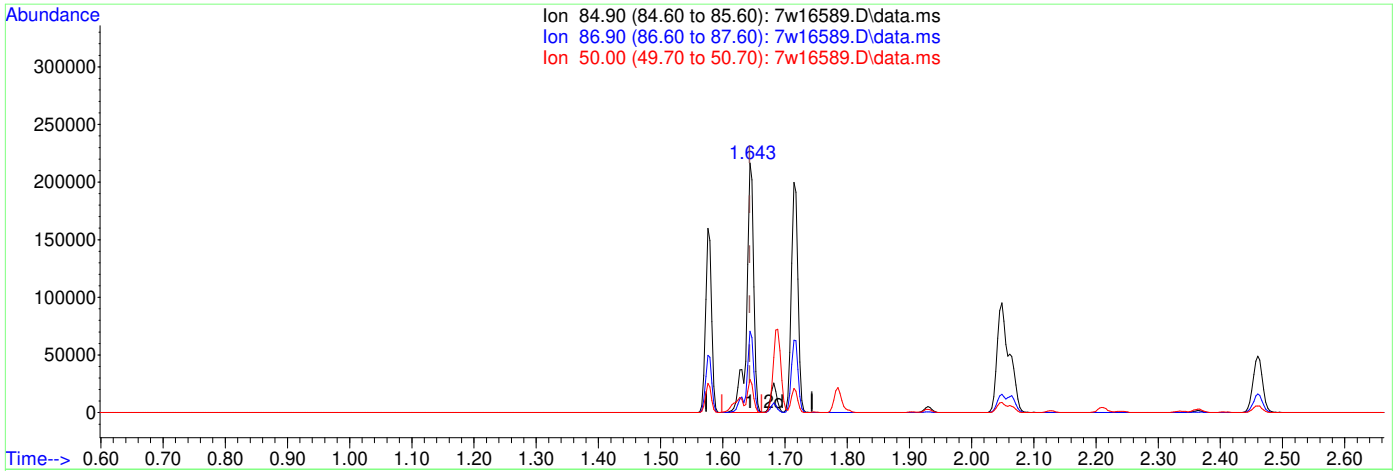
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

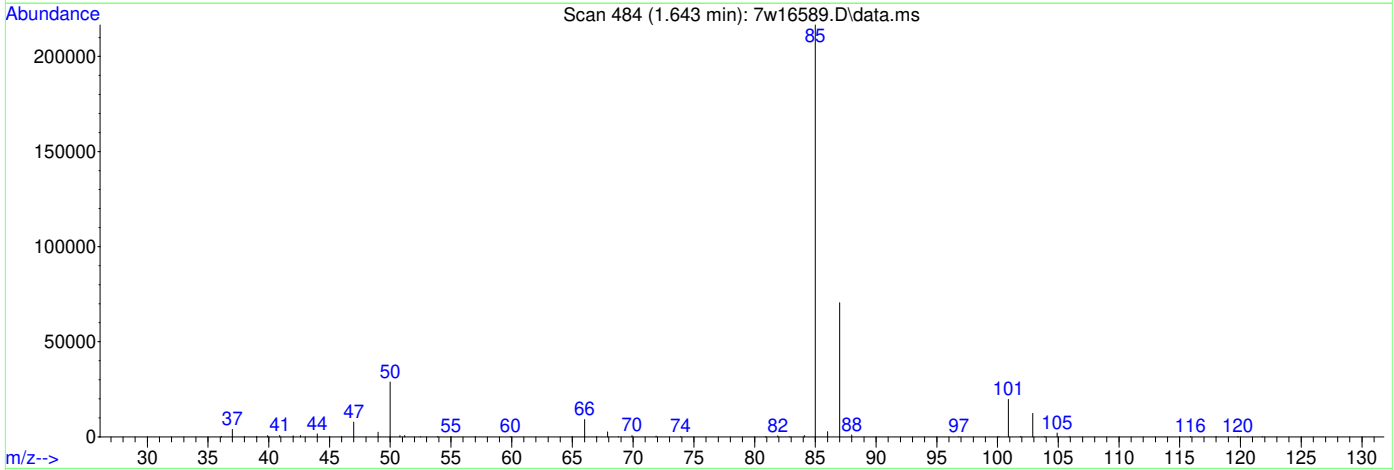
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 5.16PPBV

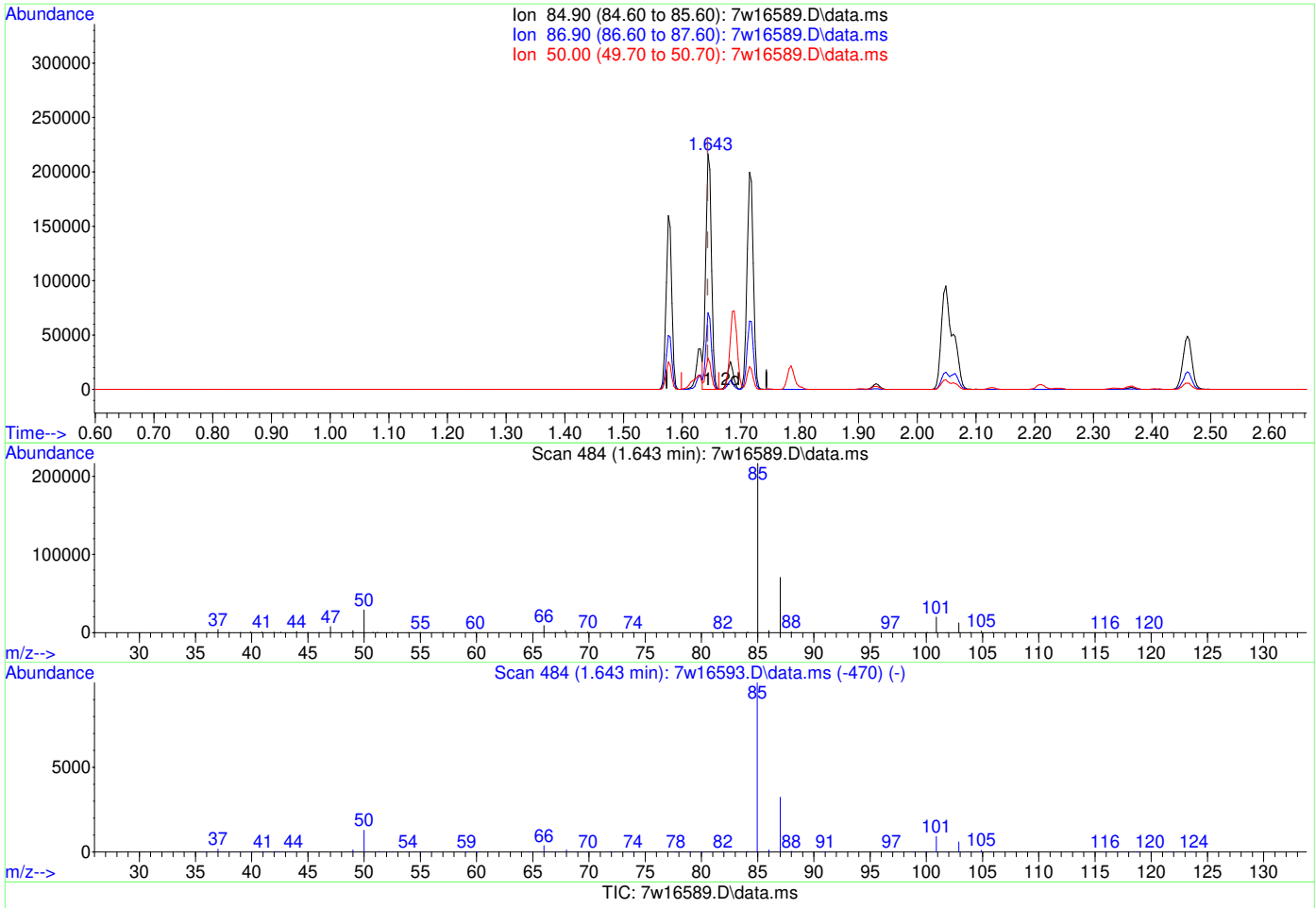
response 170335

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.55
50.00	17.30	19.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 4.36PPBV m

response 143733

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.57
50.00	17.30	22.75#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110672	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	555876	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511162	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110672	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415854	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	148485	10.40	PPBV		88
3) FREON 152A	1.605	65	71639	10.50	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	32817	10.59	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.627	116	161129	10.60	PPBV		71
6) DICHLORODIFLUOROMETHANE	1.643	85	294067m	8.88	PPBV		
7) PROPYLENE	1.627	41	92922	10.60	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	267066	10.80	PPBV		99
9) FREON 114	1.714	85	301155	10.40	PPBV		83
10) CHLOROMETHANE	1.685	52	39544	10.60	PPBV		99
11) VINYL CHLORIDE	1.746	62	141282	10.20	PPBV		99
12) 1,3-BUTADIENE	1.785	54	110559	10.30	PPBV	#	75
13) N-BUTANE	1.801	43	196391	10.67	PPBV		98
14) BROMOMETHANE	1.859	94	107418	10.20	PPBV		97
15) CHLOROETHANE	1.904	64	73302	10.00	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	261718	10.00	PPBV		96
17) ACETONITRILE	1.994	41	111653	9.70	PPBV		96
18) ACROLEIN	2.032	56	63526	10.60	PPBV		96
19) FREON 123	2.049	83	286896	10.73	PPBV		96
20) FREON 123A	2.065	117	168072	10.70	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.126	101	307938	10.10	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	265396	10.50	PPBV		89
23) ACETONE	2.071	58	72855	10.40	PPBV		64
24) PENTANE	2.238	42	138571	10.60	PPBV		88
25) IODOMETHANE	2.299	142	299236	10.70	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	121096	10.70	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	348427	10.60	PPBV		94
28) ETHANOL	1.933	45	62817	9.70	PPBV		98
29) BROMOETHENE	2.004	106	111170	10.10	PPBV		95
30) ACRYLONITRILE	2.209	52	103886	10.70	PPBV		97
31) METHYLENE CHLORIDE	2.364	84	109559	10.20	PPBV	#	74
32) 3-CHLOROPROPENE	2.405	76	62528	10.20	PPBV		72
33) FREON 113	2.460	151	187009	10.60	PPBV		85
34) TRANS-1,2-DICHLOROETHENE	2.685	96	127301	10.20	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.335	59	296206	9.59	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	372073	10.49	PPBV		97
37) TETRAHYDROFURAN	3.466	72	57483	9.70	PPBV		81
38) HEXANE	3.238	57	246511	10.50	PPBV		81
39) VINYL ACETATE	2.827	86	35168	10.20	PPBV		71
40) 1,1-DICHLOROETHANE	2.759	63	250914	10.20	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	65983	10.43	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.113	96	134402	10.34	PPBV	#	74
43) DIISOPROPYL ETHER	3.241	59	70916	10.51	PPBV		94
44) ETHYL ACETATE	3.248	61	50059	10.49	PPBV		62
45) METHYL ACRYLATE	3.235	55	305217	10.50	PPBV	#	98
46) CHLOROFORM	3.261	83	269897	10.50	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	286654	10.70	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	278334	10.38	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	291854	10.20	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.659	62	205888	10.20	PPBV		98
51)	BENZENE	4.126	78	391334	10.41	PPBV		90
53)	CYCLOHEXANE	4.331	84	177560	10.40	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.582	71	92078	10.60	PPBV		68
55)	TRICHLOROETHENE	5.013	95	180016	9.90	PPBV		86
56)	1,2-DICHLOROPROPANE	4.782	63	164997	10.30	PPBV		92
57)	DIBROMOMETHANE	4.740	174	152742	10.28	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	381569	10.50	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.958	83	297999	9.90	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	772831	10.20	PPBV	#	95
61)	1,4-DIOXANE	5.023	88	89212	9.94	PPBV	#	83
62)	HEPTANE	5.418	43	263524	10.40	PPBV		91
63)	METHYL METHACRYLATE	5.315	69	149851	10.30	PPBV		88
64)	METHYL ISOBUTYL KETONE	6.035	58	152356	10.20	PPBV		78
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	257147	10.12	PPBV		96
66)	TOLUENE	7.129	91	488762	10.60	PPBV		97
67)	1,3-DICHLOROPROPANE	7.187	76	252760	10.60	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	227014	9.56	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.765	83	143412	10.50	PPBV		95
70)	2-HEXANONE	7.691	58	203944	10.38	PPBV	#	79
71)	ETHYL METHACRYLATE	7.830	69	260130	10.39	PPBV		95
72)	TETRACHLOROETHENE	8.842	164	181618	10.70	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.659	129	295382	10.40	PPBV		97
74)	1,2-DIBROMOETHANE	8.000	107	267727	10.99	PPBV		99
75)	OCTANE	8.994	43	371213	10.70	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	219545	10.90	PPBV		93
78)	CHLOROBENZENE	10.042	112	401465	10.90	PPBV		90
79)	ETHYLBENZENE	10.923	91	667794	11.00	PPBV		97
80)	M,P-XYLENE	11.350	91	1033120	21.20	PPBV		96
81)	O-XYLENE	12.283	91	525465	11.00	PPBV		95
82)	STYRENE	12.067	104	405889	10.90	PPBV		94
83)	NONANE	13.402	43	395697	10.80	PPBV		83
84)	BROMOFORM	11.157	173	257628	10.60	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	382601	10.99	PPBV		98
86)	1,2,3-TRICHLOROPROPANE	12.572	75	301186	11.00	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	197546	10.80	PPBV		87
89)	BROMOBENZENE	13.656	77	373873	10.80	PPBV		76
90)	2-CHLOROTOLUENE	14.784	126	179837	10.39	PPBV		99
91)	N-PROPYLBENZENE	15.125	120	208155	10.50	PPBV		97
92)	4-ETHYLTOLUENE	15.569	105	761814	10.60	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	641174	10.70	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.173	118	317898	10.40	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	157456	10.90	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	660136	10.90	PPBV		95
97)	BENZYL CHLORIDE	16.601	91	547978	10.50	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	424825	10.50	PPBV		96
99)	P-DICHLOROBENZENE	16.665	146	430477	10.80	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	400770	10.70	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	191611	11.00	PPBV		83
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	636319	10.70	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	211524	10.80	PPBV		95
104)	N-BUTYLBENZENE	17.379	134	205284	10.90	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	254836	10.90	PPBV		97
106)	HEXACHLOROBUTADIENE	18.636	225	300683	11.70	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.321	180	387303	11.70	PPBV		99
108)	NAPHTHALENE	18.366	128	909462	11.80	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	646941	10.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

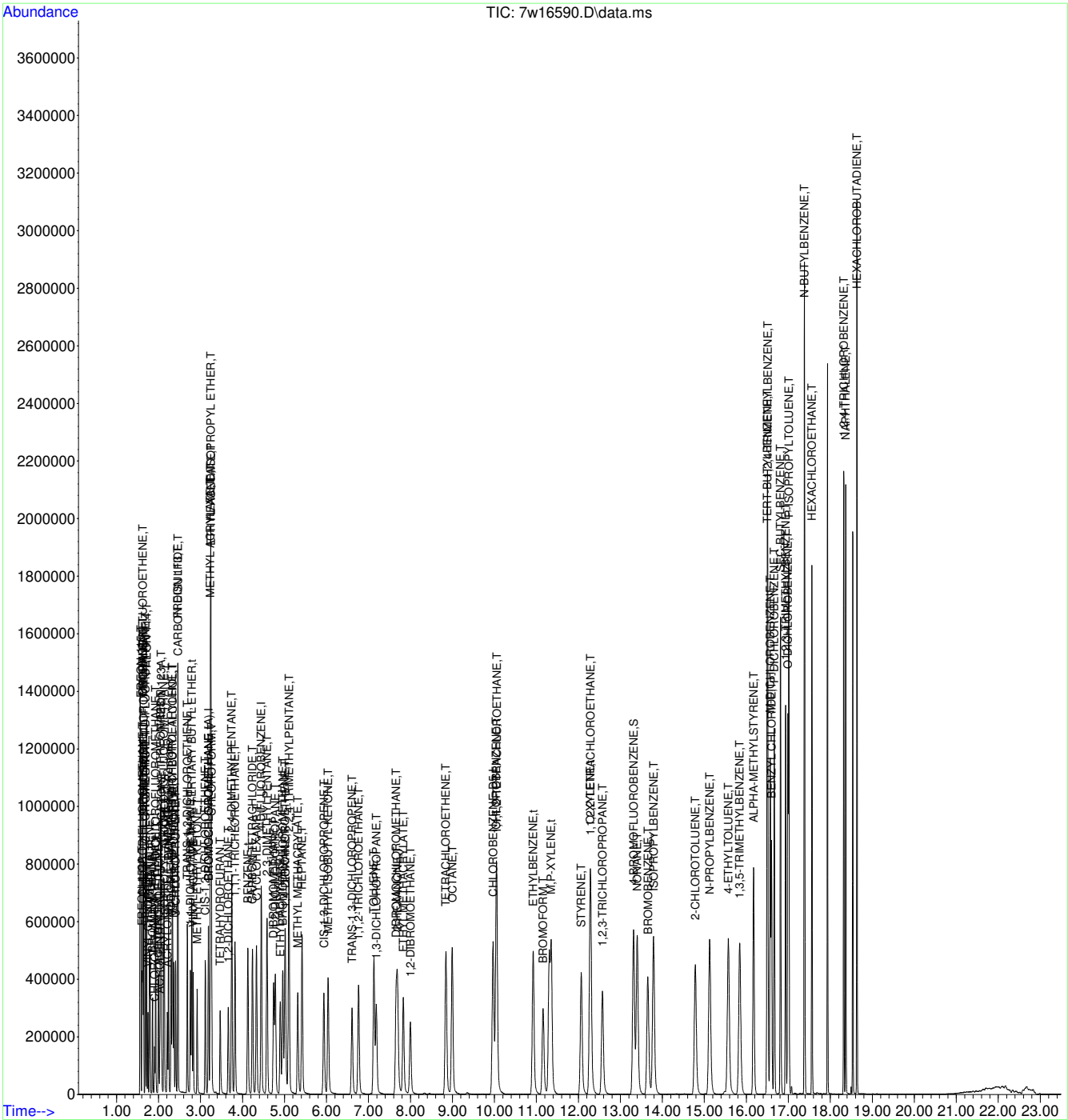
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

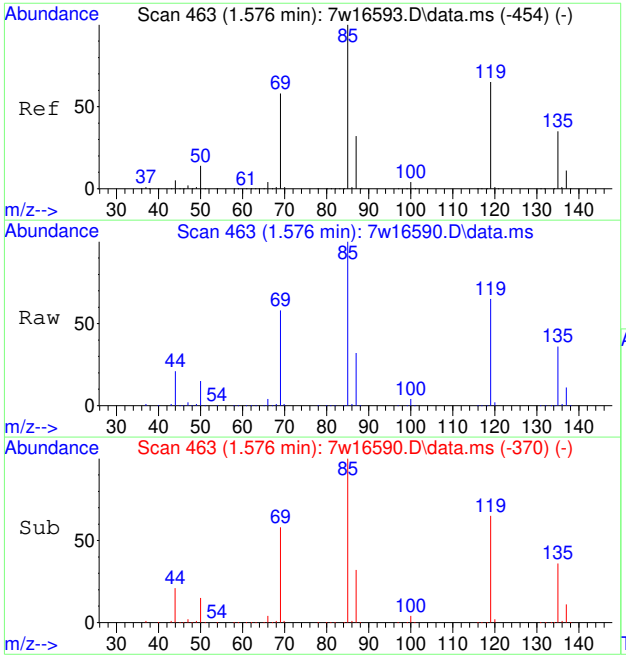
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

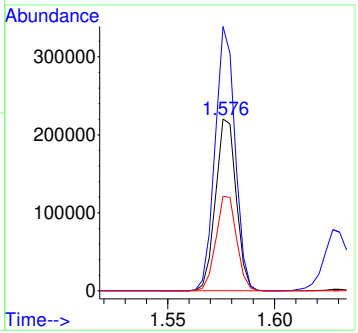


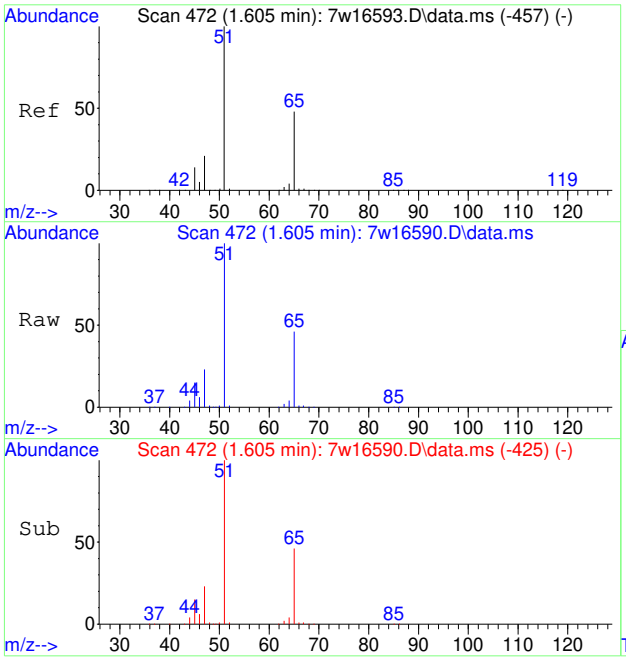


#2
FREON 115
Concen: 10.40 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:119 Resp: 148485

Ion	Ratio	Lower	Upper
119	100		
85	149.1	90.9	168.7
135	55.2	38.2	71.0

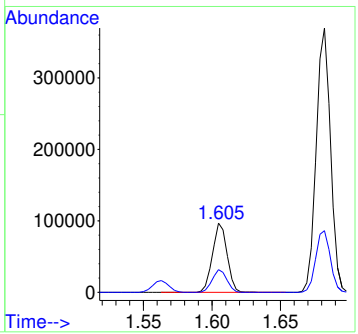


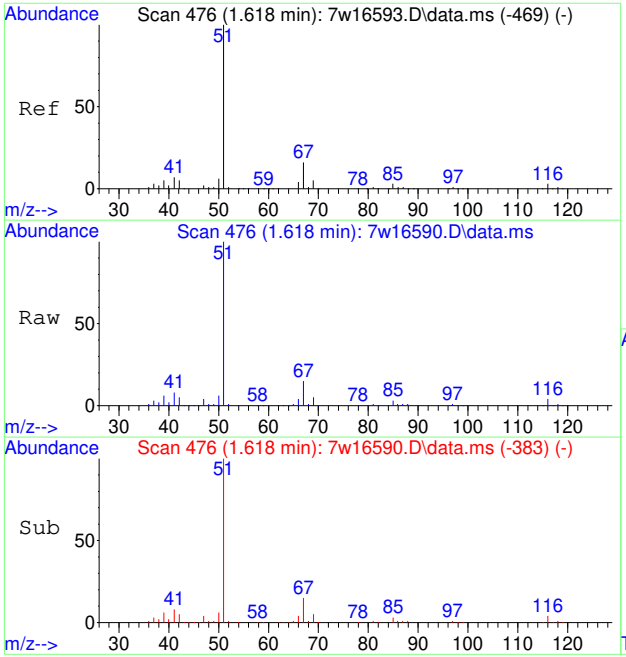


#3
FREON 152A
Concen: 10.50 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 71639

Ion	Ratio	Lower	Upper
65	100		
45	32.9	20.6	38.4

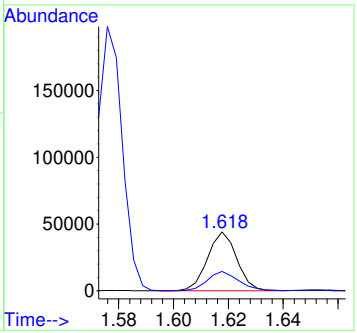


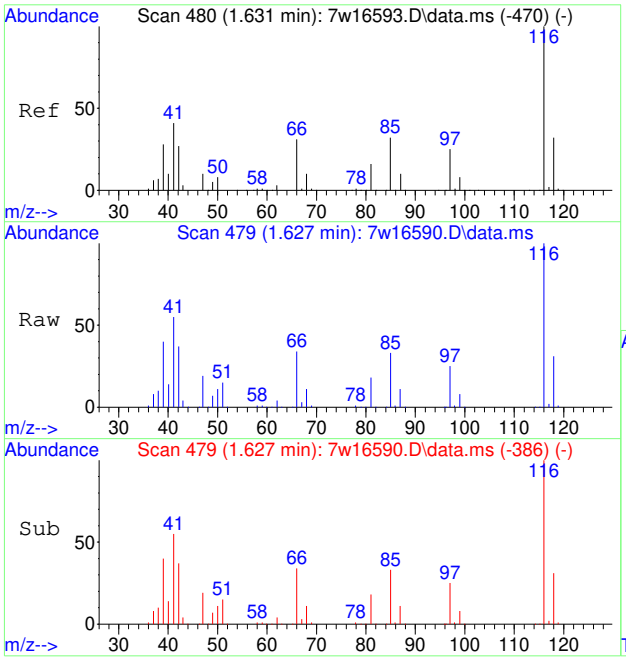


#4
CHLORODIFLUOROMETHANE
Concen: 10.59 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 32817

Ion	Ratio	Lower	Upper
67	100		
69	36.2	25.4	47.2

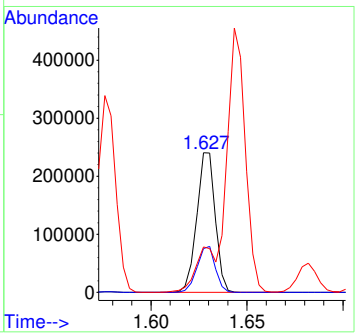


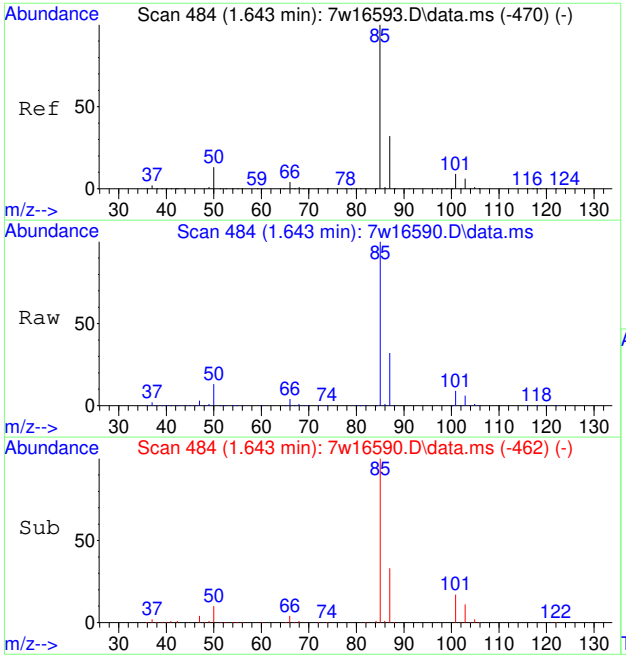


#5
CHLOROTRIFLUOROETHENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:116 Resp: 161129

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	217.7	194.7	361.7

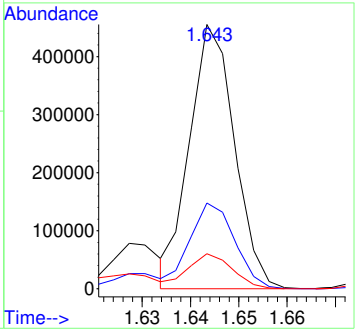


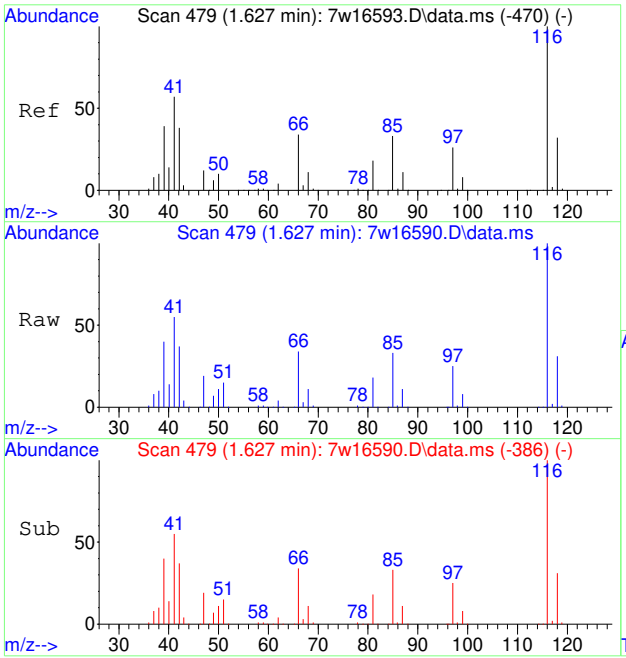


#6
DICHLORODIFLUOROMETHANE
Concen: 8.88 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 294067

Ion	Ratio	Lower	Upper
85	100		
87	39.2	23.1	42.9
50	23.1	12.1	22.5#

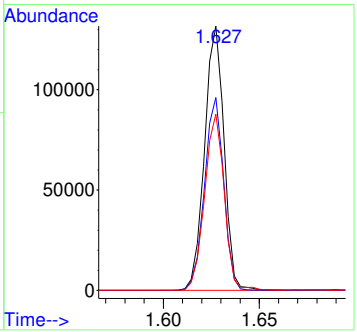


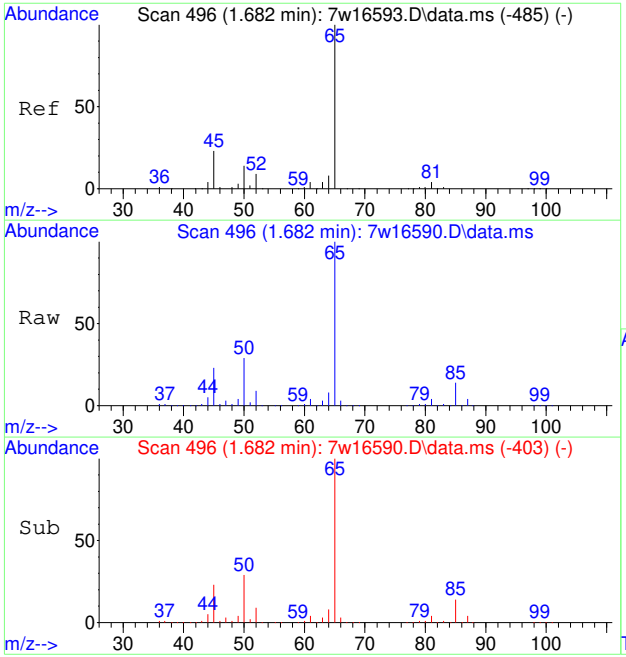


#7
PROPYLENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 92922

Ion	Ratio	Lower	Upper
41	100		
39	72.1	51.0	94.8
42	67.2	46.6	86.6

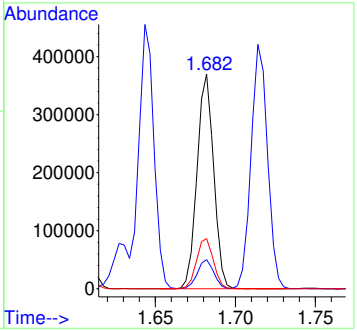


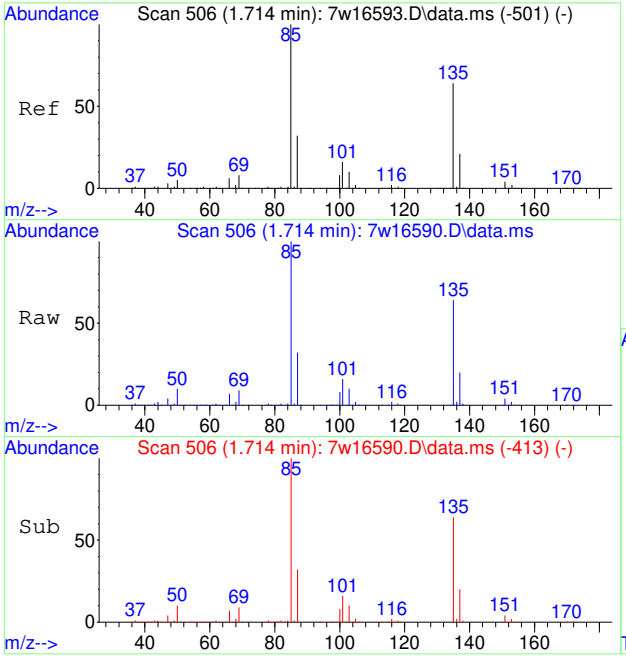


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.80 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 267066

Ion	Ratio	Lower	Upper
65	100		
85	13.4	9.7	17.9
45	24.1	17.0	31.6

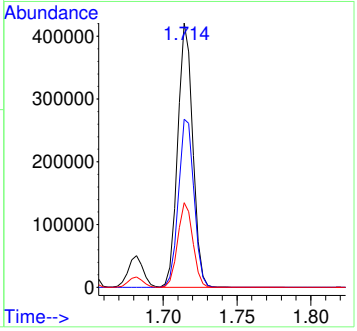


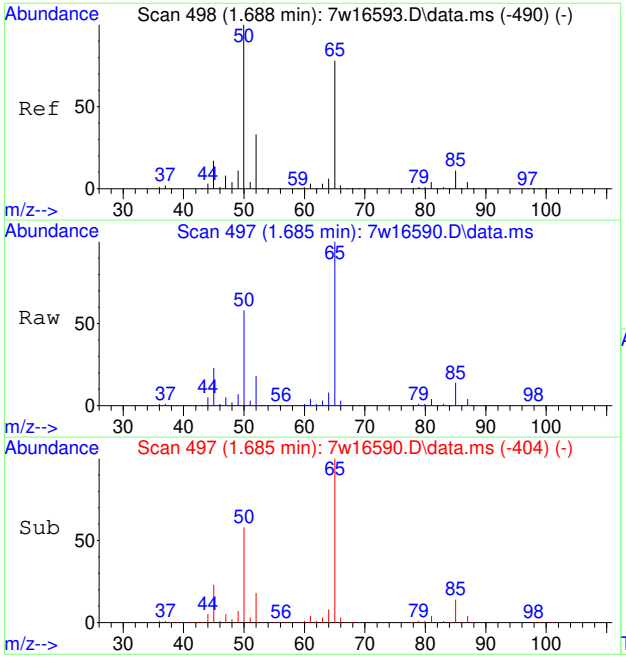


#9
FREON 114
Concen: 10.40 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 301155

Ion	Ratio	Lower	Upper
85	100		
135	65.9	61.3	113.9
87	32.3	23.2	43.0

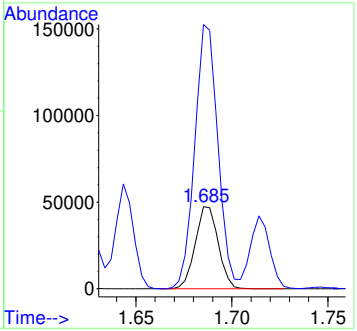


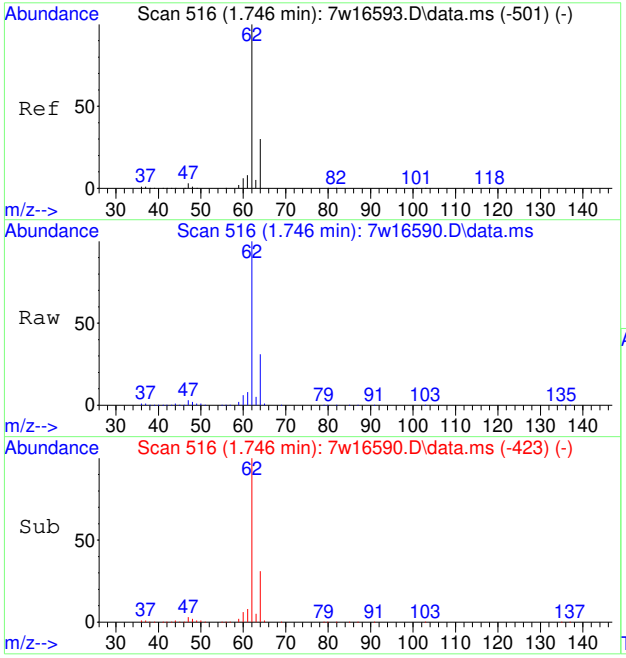


#10
CHLOROMETHANE
Concen: 10.60 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 39544

Ion	Ratio	Lower	Upper
52	100		
50	322.3	227.6	422.6

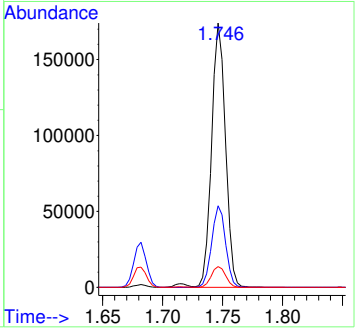


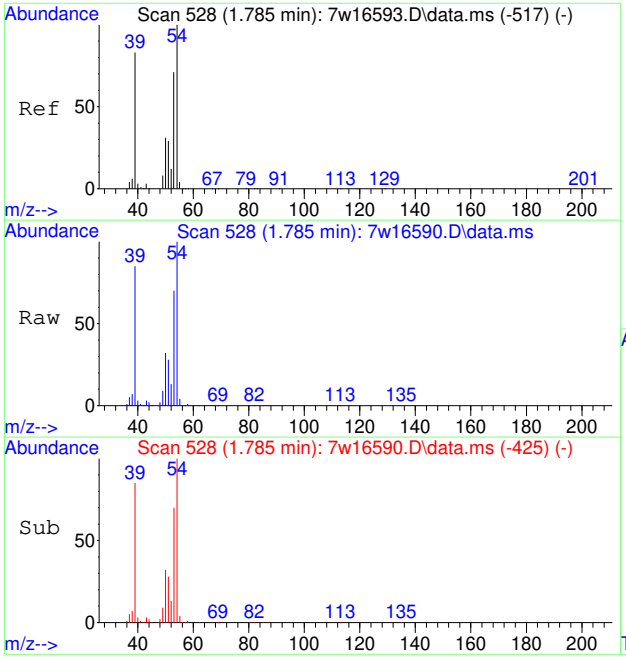


#11
VINYL CHLORIDE
Concen: 10.20 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 141282

Ion	Ratio	Lower	Upper
62	100		
64	30.5	21.6	40.2
61	8.1	5.7	10.7

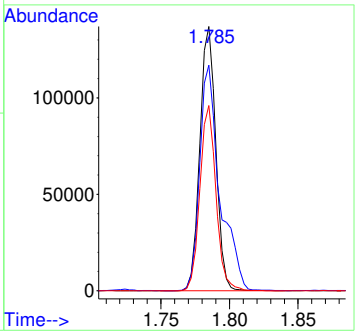


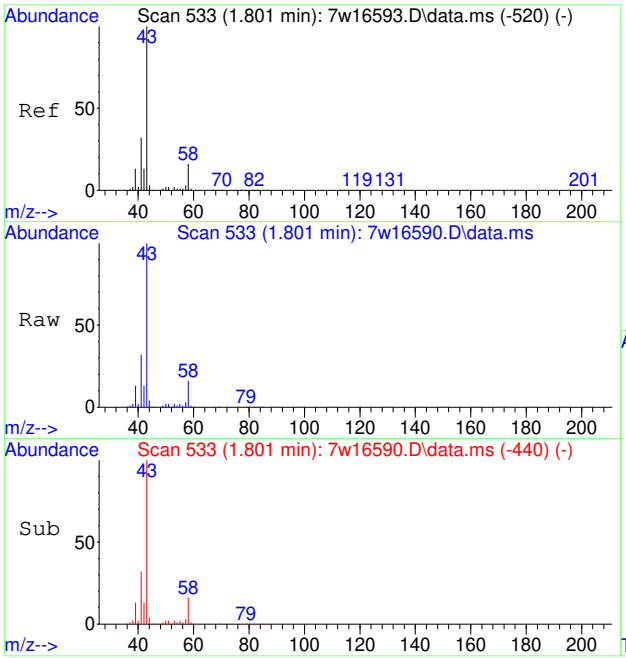


#12
1,3-BUTADIENE
Concen: 10.30 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 54 Resp: 110559

Ion	Ratio	Lower	Upper
54	100		
39	108.4	125.6	185.6#
53	70.9	40.7	100.7

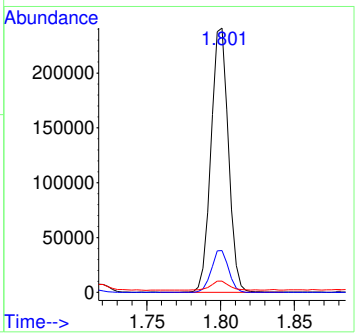


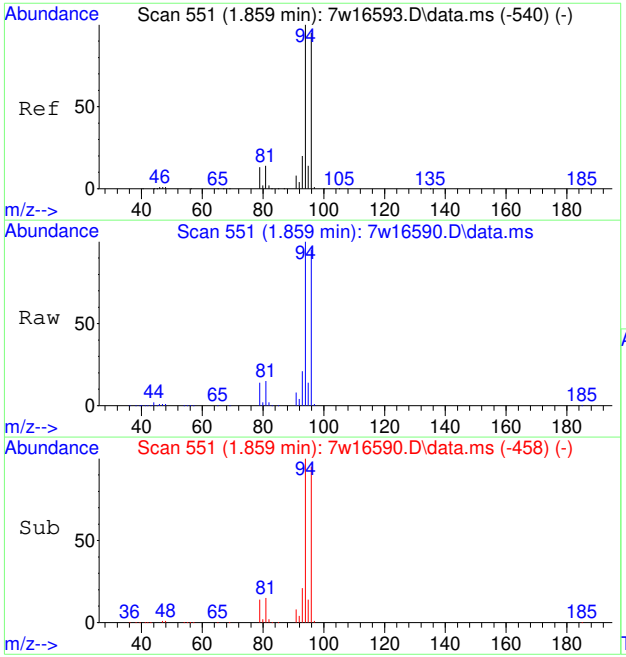


#13
N-BUTANE
Concen: 10.67 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 196391

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	3.7	3.0	5.6

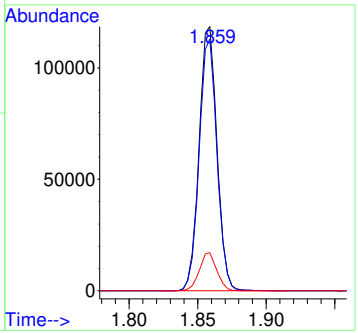


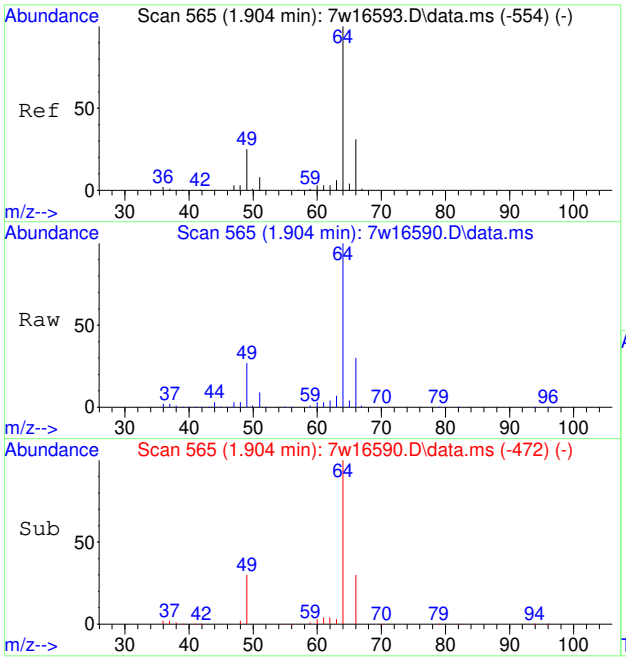


#14
BROMOMETHANE
Concen: 10.20 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 94 Resp: 107418

Ion	Ratio	Lower	Upper
94	100		
96	94.4	63.6	118.0
95	14.1	10.0	18.6

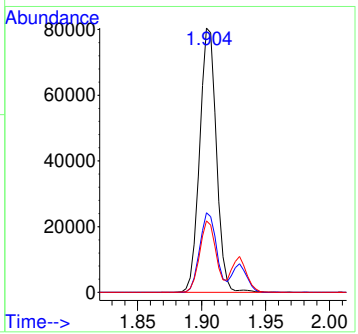


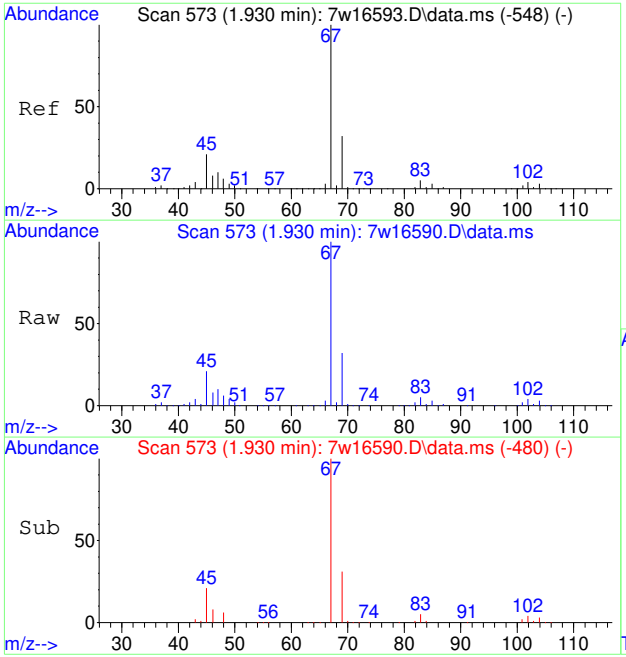


#15
CHLOROETHANE
Concen: 10.00 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 64 Resp: 73302

Ion	Ratio	Lower	Upper
64	100		
66	30.7	23.0	42.6
49	27.2	21.5	39.9

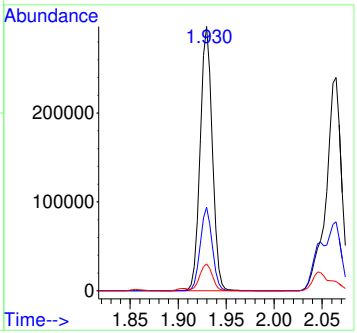


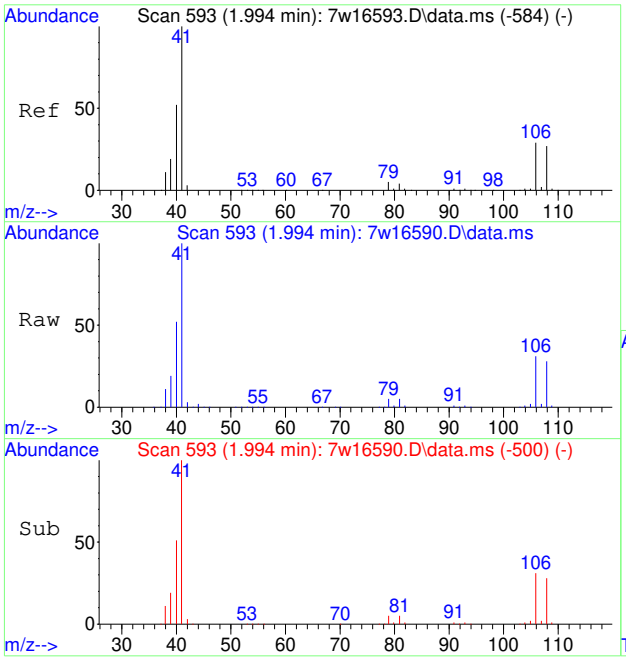


#16
DICHLOROFLUOROMETHANE
Concen: 10.00 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 261718

Ion	Ratio	Lower	Upper
67	100		
69	31.2	23.2	43.0
47	11.4	9.6	17.8

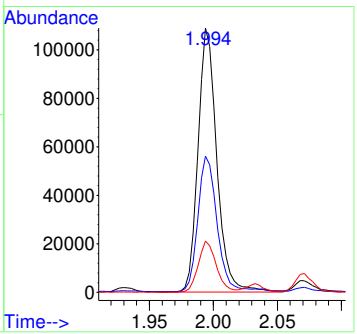


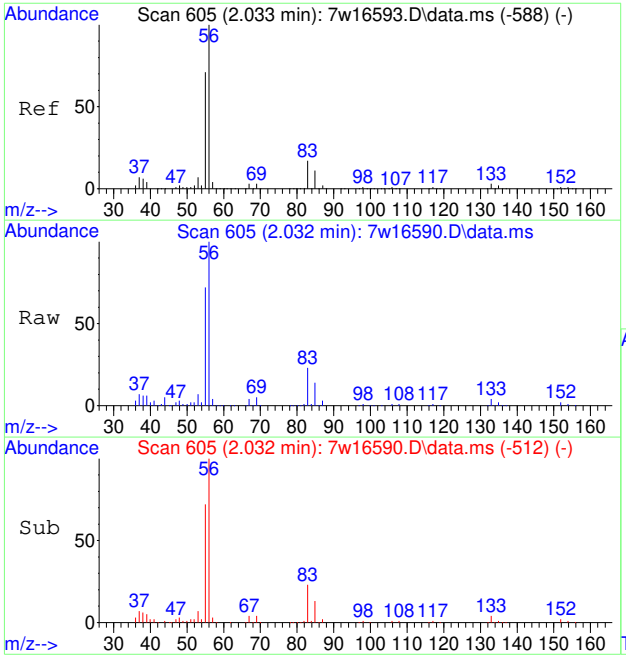


#17
ACETONITRILE
Concen: 9.70 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 111653

Ion	Ratio	Lower	Upper
41	100		
40	52.4	38.4	71.4
39	18.7	14.5	26.9

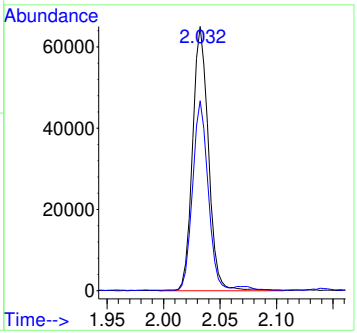


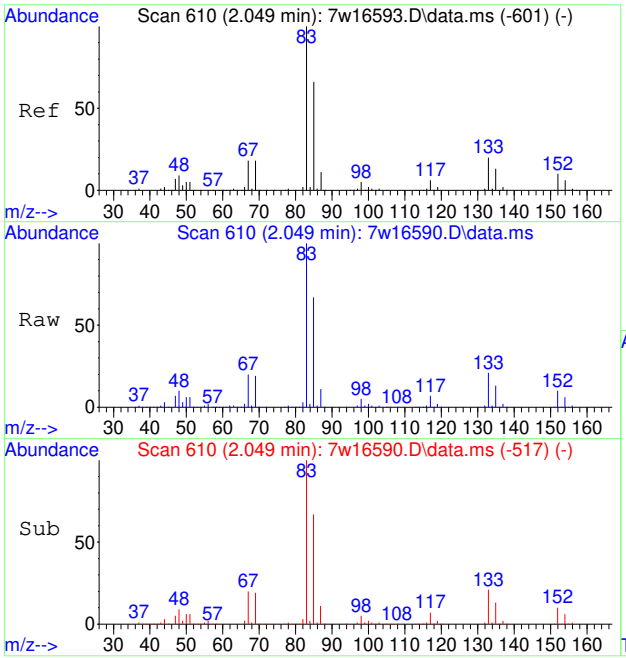


#18
ACROLEIN
Concen: 10.60 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 56 Resp: 63526

Ion	Ratio	Lower	Upper
56	100		
55	69.8	51.2	95.2

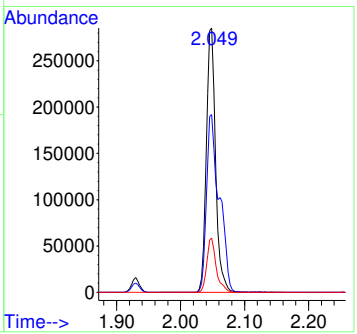


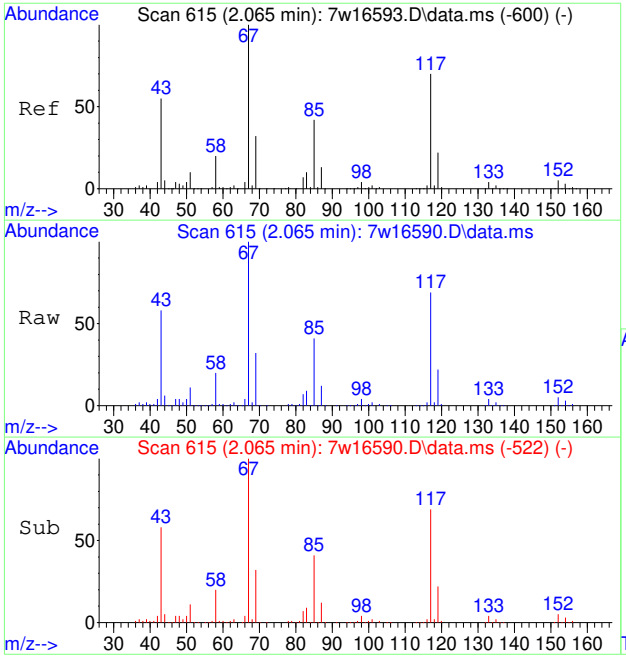


#19
FREON 123
Concen: 10.73 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 286896

Ion	Ratio	Lower	Upper
83	100		
85	92.7	65.7	121.9
133	21.0	19.9	36.9

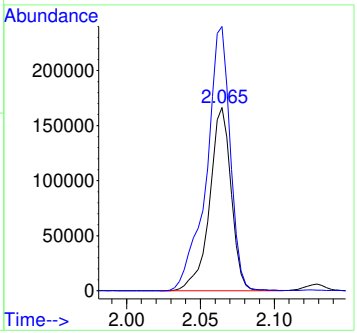


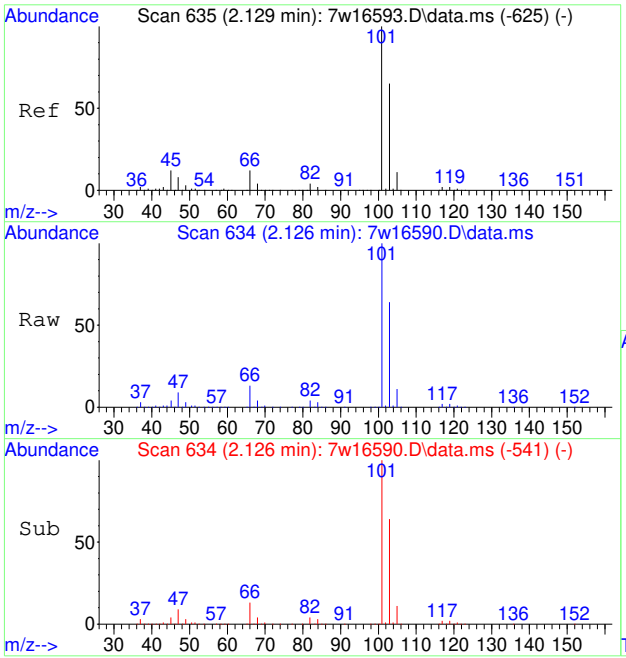


#20
FREON 123A
Concen: 10.70 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 168072

Ion	Ratio	Lower	Upper
117	100		
67	159.0	78.8	146.4#

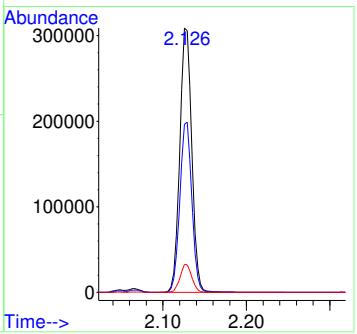


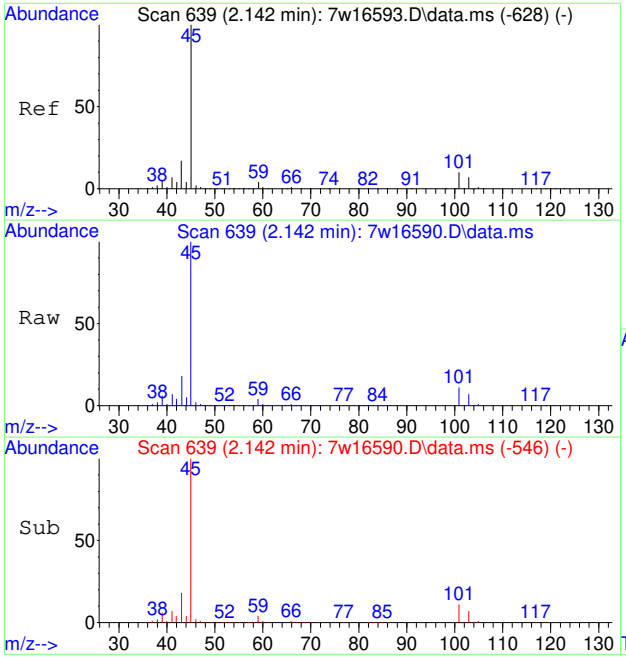


#21
TRICHLOROFLUOROMETHANE
Concen: 10.10 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:101 Resp: 307938

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.4	7.3	13.7

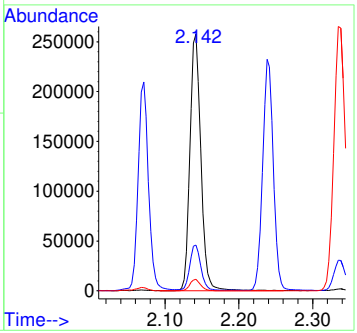


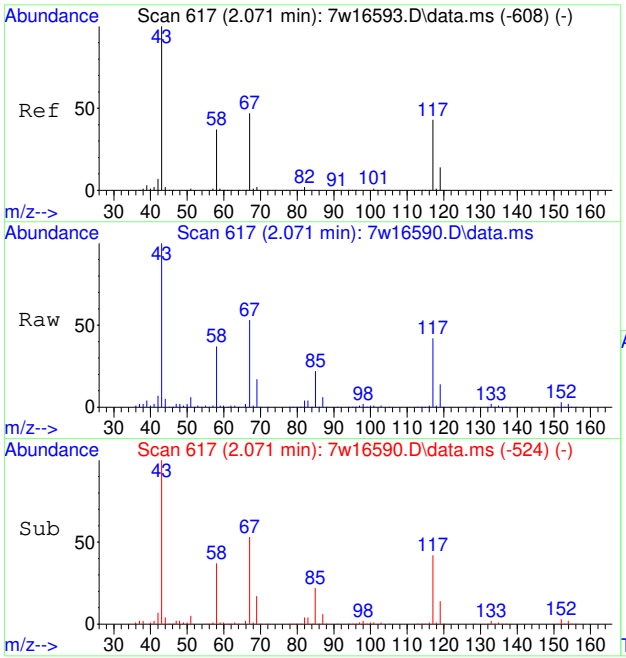


#22
ISOPROPYL ALCOHOL
Concen: 10.50 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 265396

Ion	Ratio	Lower	Upper
45	100		
43	17.9	17.1	31.9
59	4.4	3.1	5.8

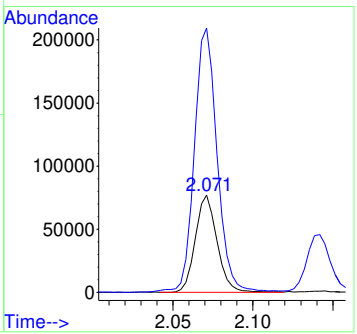


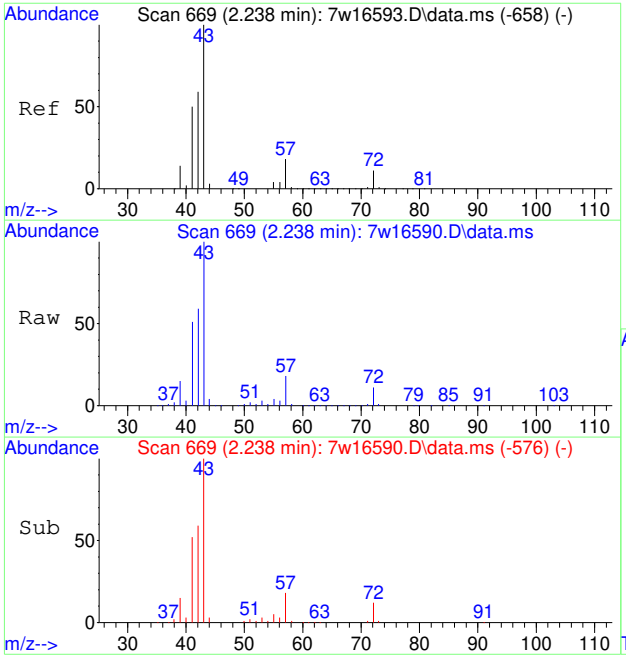


#23
ACETONE
Concen: 10.40 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 72855

Ion	Ratio	Lower	Upper
58	100		
43	283.7	254.0	471.6

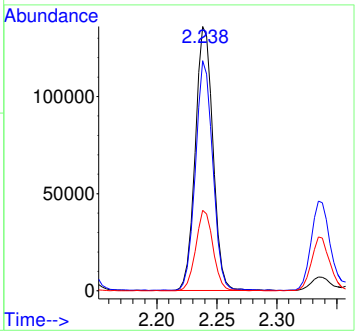


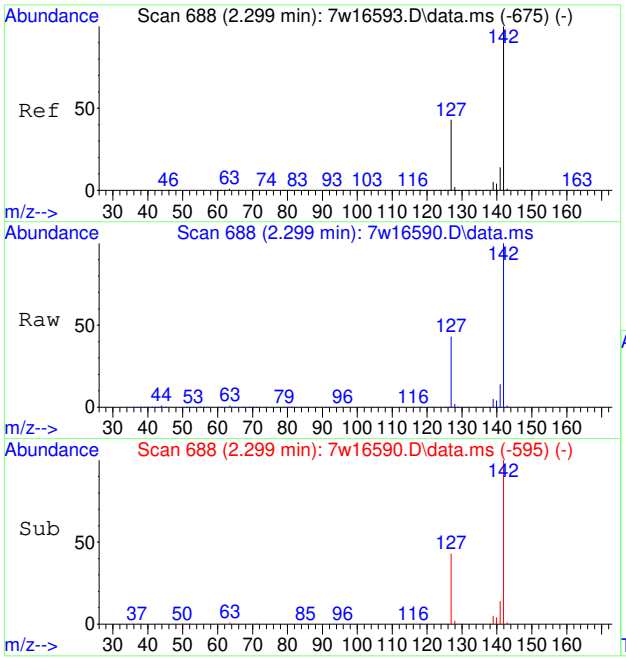


#24
PENTANE
Concen: 10.60 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 42 Resp: 138571

Ion	Ratio	Lower	Upper
42	100		
41	85.4	69.2	128.6
57	30.1	18.6	34.6

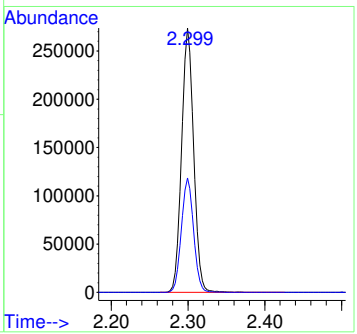


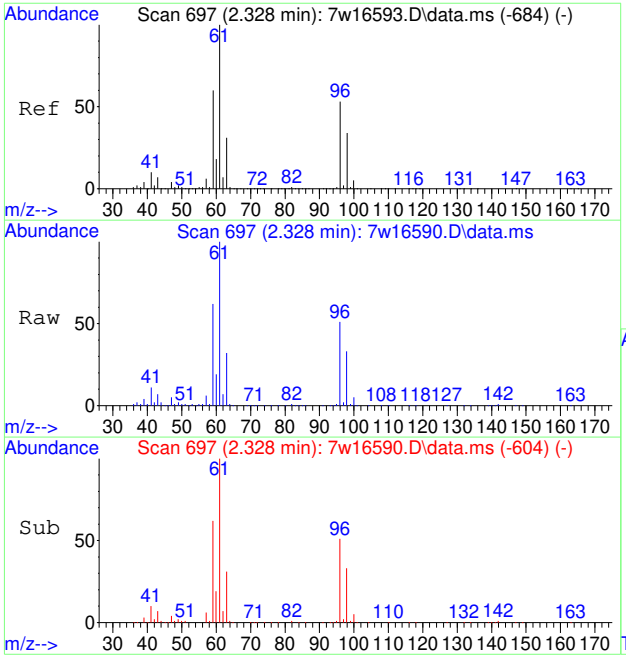


#25
IODOMETHANE
Concen: 10.70 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:142 Resp: 299236

Ion	Ratio	Lower	Upper
142	100		
127	43.7	32.1	59.7

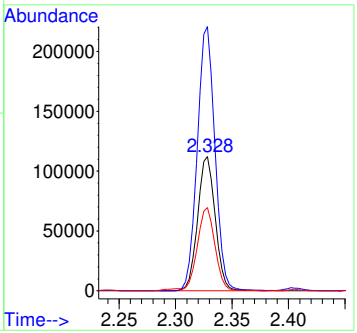


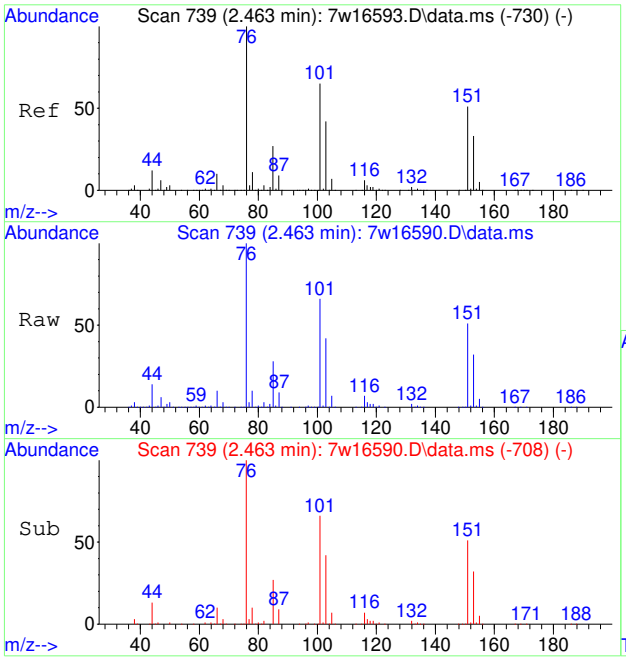


#26
1,1-DICHLOROETHYLENE
Concen: 10.70 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 121096

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	63.1	33.2	61.7#

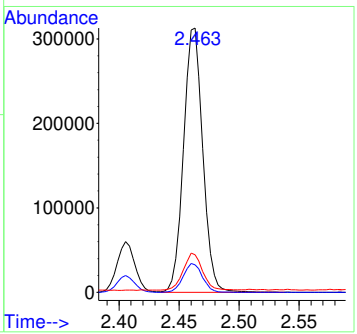


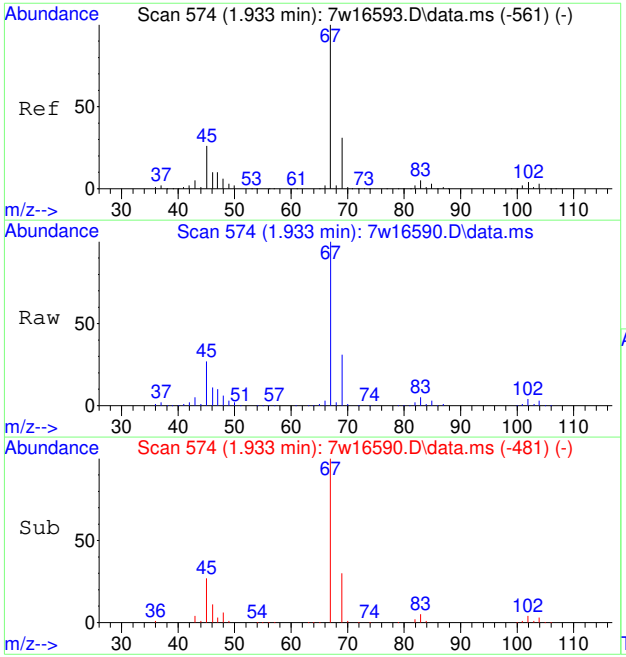


#27
CARBON DISULFIDE
Concen: 10.60 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 348427

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	14.6	13.0	24.1

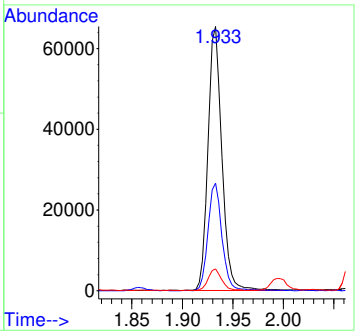


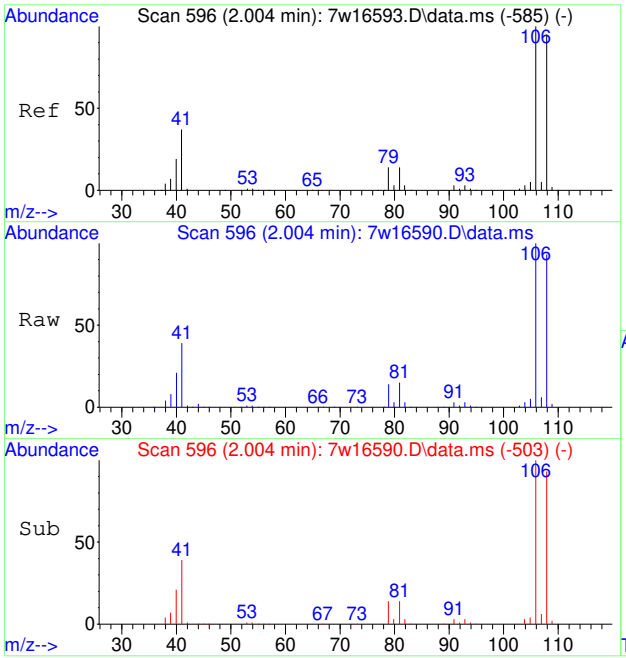


#28
ETHANOL
Concen: 9.70 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 62817

Ion	Ratio	Lower	Upper
45	100		
46	41.5	29.7	55.1
42	8.1	7.3	13.5

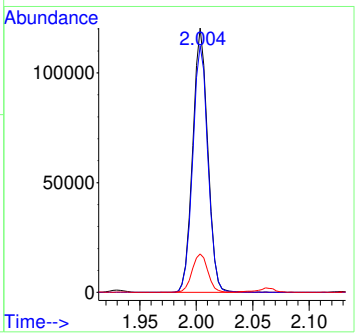


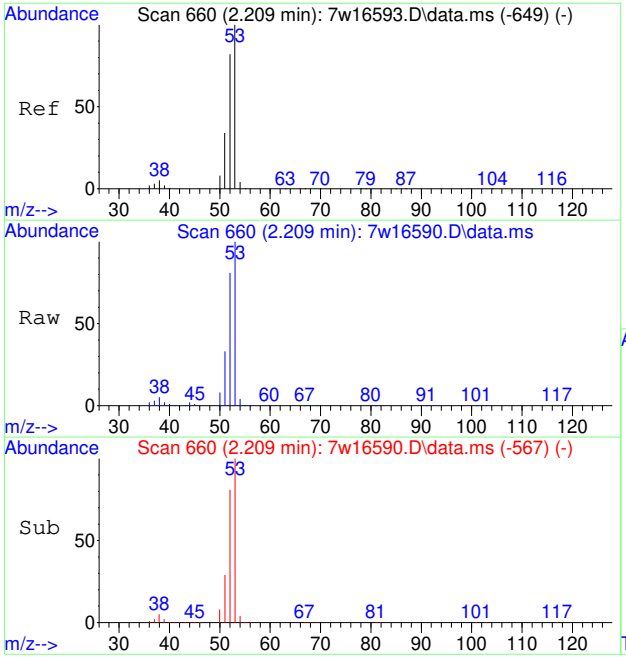


#29
BROMOETHENE
Concen: 10.10 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:106 Resp: 111170

Ion	Ratio	Lower	Upper
106	100		
108	94.4	68.3	126.8
81	15.2	14.7	27.3

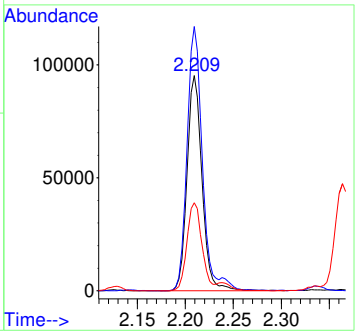


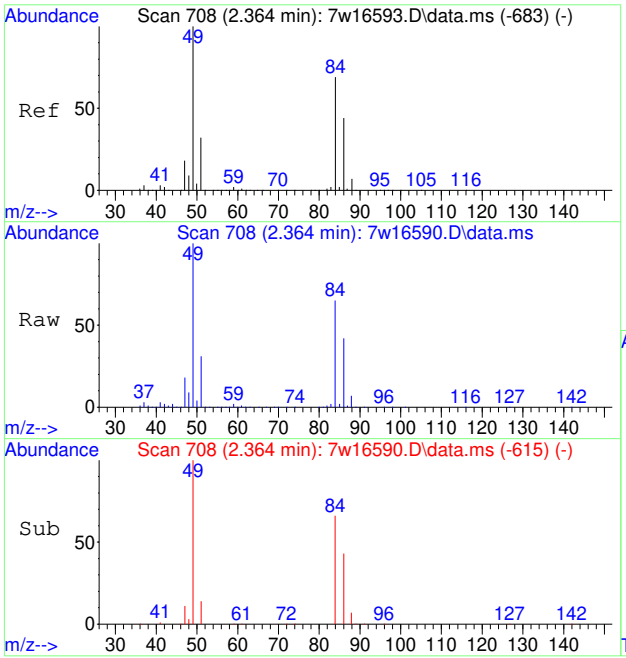


#30
ACRYLONITRILE
Concen: 10.70 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 103886

Ion	Ratio	Lower	Upper
52	100		
53	126.0	86.3	160.3
51	44.7	33.6	62.4

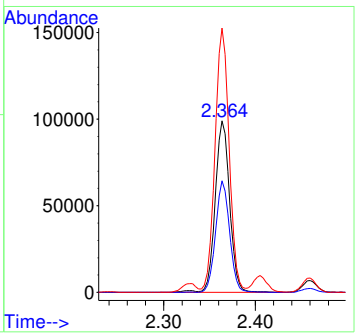


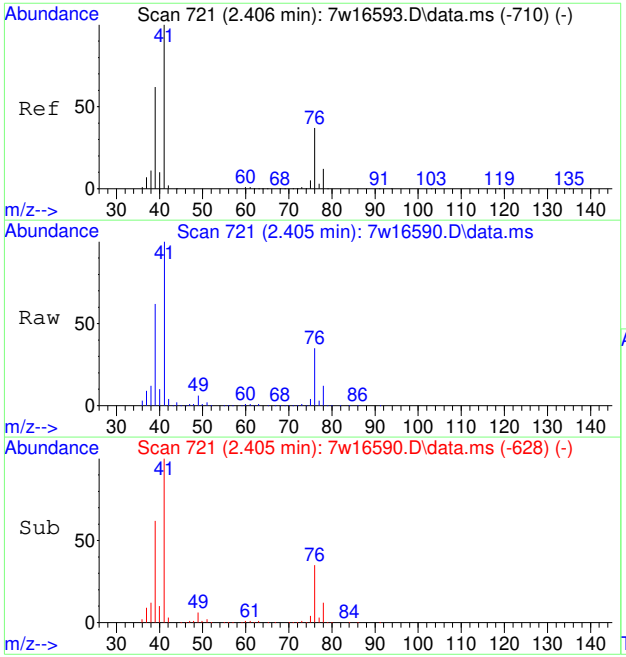


#31
METHYLENE CHLORIDE
Concen: 10.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 109559

Ion	Ratio	Lower	Upper
84	100		
86	63.3	44.9	83.5
49	156.4	79.7	148.1#

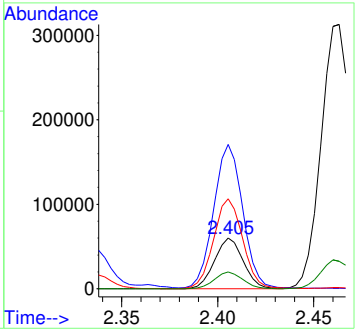


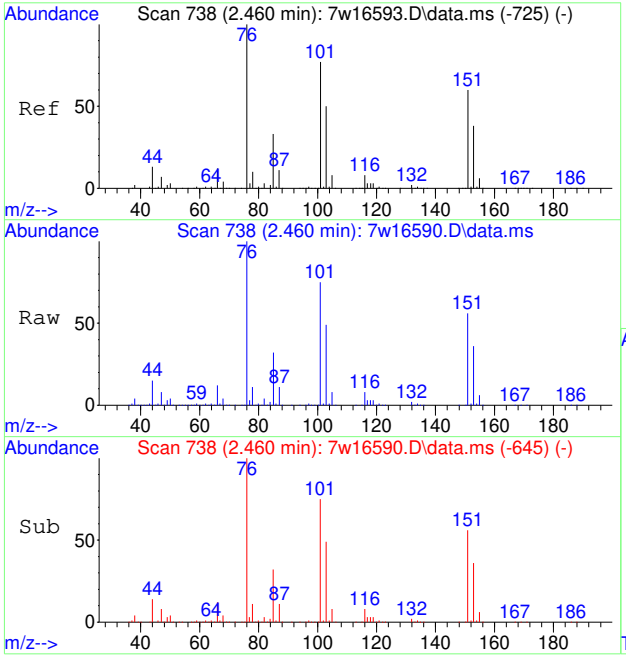


#32
3-CHLOROPROPENE
Concen: 10.20 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 62528

Ion	Ratio	Lower	Upper
76	100		
41	289.4	160.9	298.9
39	179.7	150.7	279.9
78	33.0	22.7	42.1

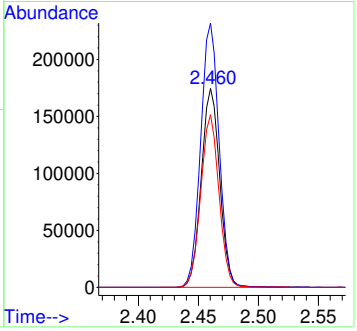


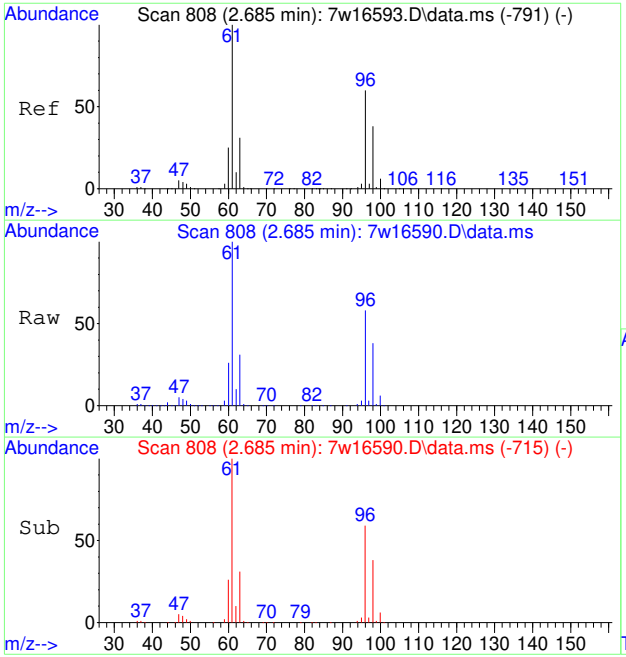


#33
FREON 113
Concen: 10.60 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:151 Resp: 187009

Ion	Ratio	Lower	Upper
151	100		
101	133.0	81.1	150.7
103	85.8	51.4	95.4

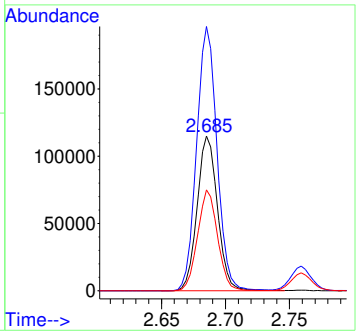


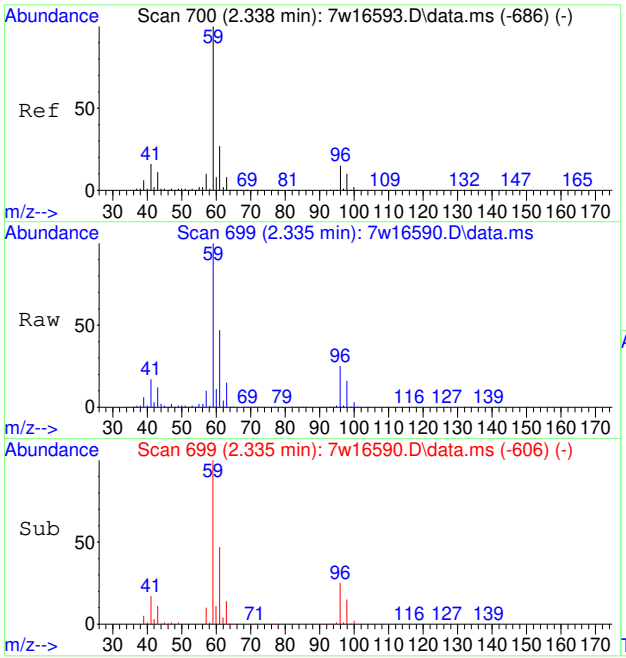


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.20 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 127301

Ion	Ratio	Lower	Upper
96	100		
61	170.8	78.5	145.9#
98	64.2	46.5	86.3

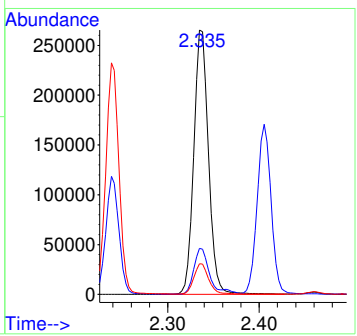


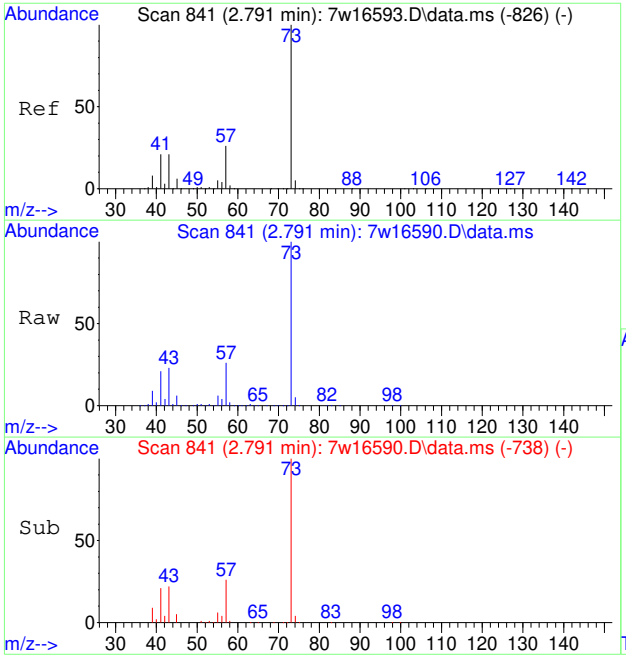


#35
TERTIARY BUTYL ALCOHOL
Concen: 9.59 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 59 Resp: 296206

Ion	Ratio	Lower	Upper
59	100		
41	18.4	15.3	28.5
43	11.4	12.3	22.9#

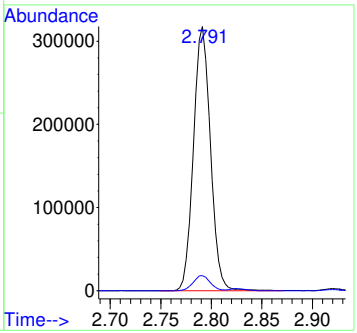


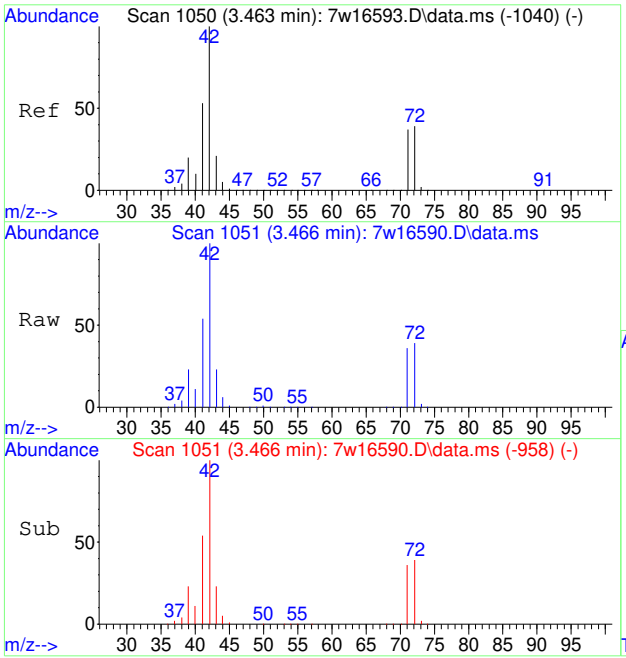


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.49 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 73 Resp: 372073

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

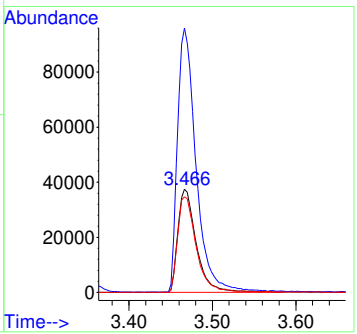


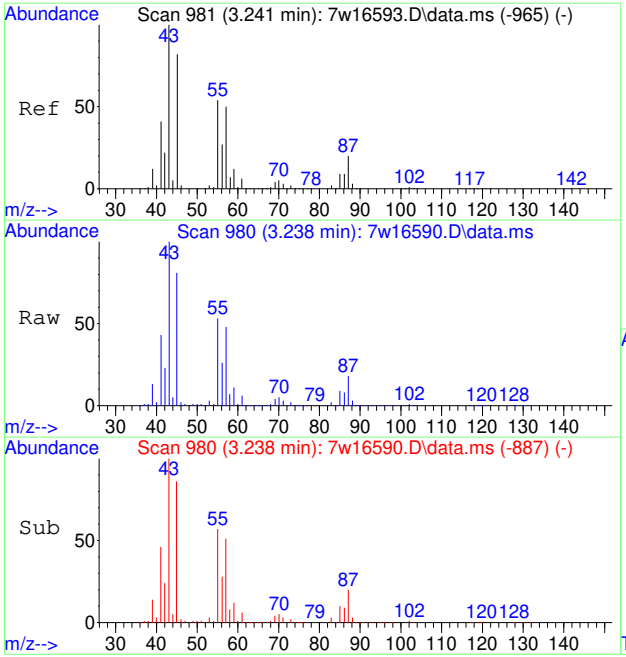


#37
TETRAHYDROFURAN
Concen: 9.70 PPBV
RT: 3.466 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 57483

Ion	Ratio	Lower	Upper
72	100		
42	257.5	153.0	284.2
71	94.0	62.7	116.5

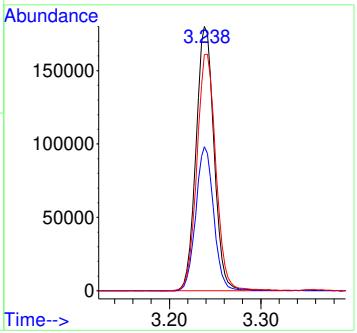


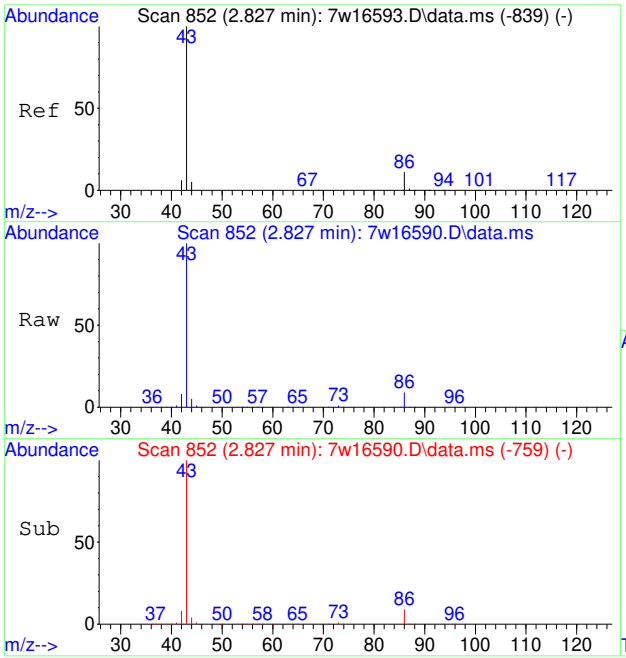


#38
HEXANE
Concen: 10.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 246511

Ion	Ratio	Lower	Upper
57	100		
56	54.3	37.3	69.3
41	94.2	86.7	161.1

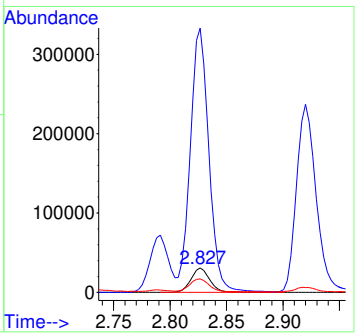


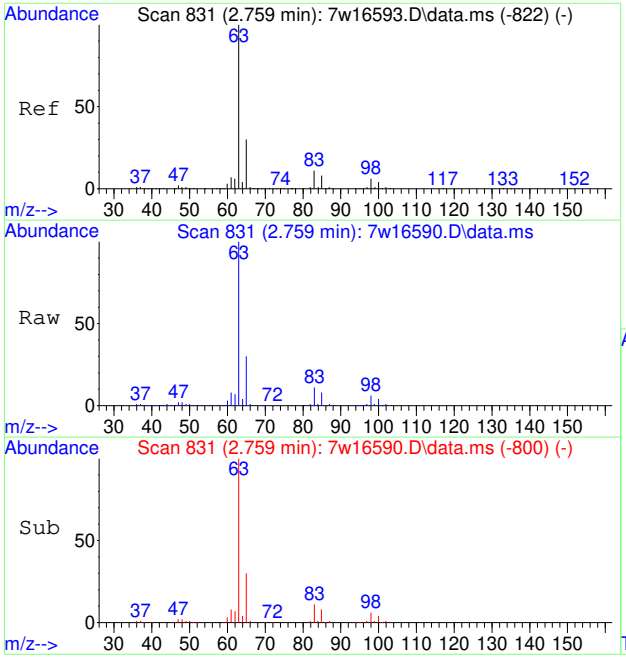


#39
VINYL ACETATE
Concen: 10.20 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 86 Resp: 35168

Ion	Ratio	Lower	Upper
86	100		
43	1083.8	667.9	1240.3
44	56.4	32.7	60.7

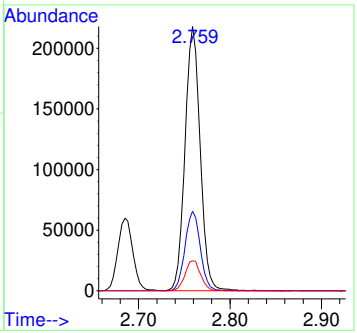


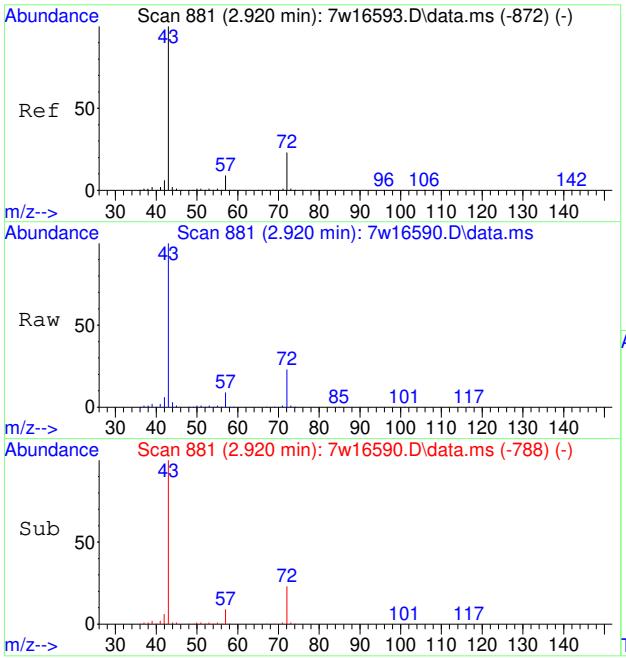


#40
1,1-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 250914

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.8	40.6
83	11.9	10.6	19.6

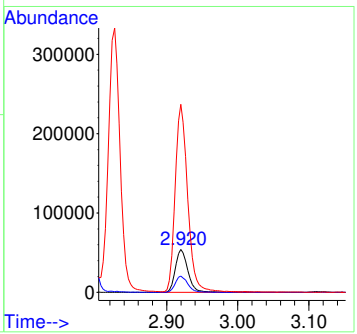


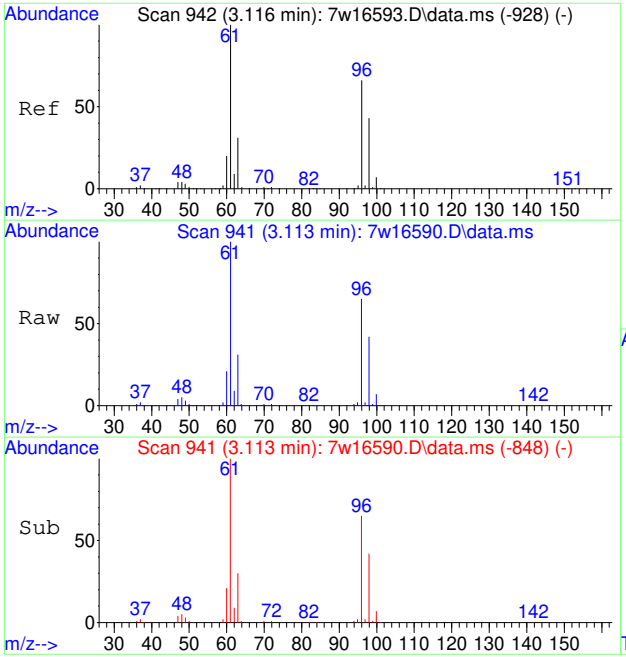


#41
METHYL ETHYL KETONE
Concen: 10.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 65983

Ion	Ratio	Lower	Upper
72	100		
57	38.4	20.3	37.7#
43	442.0	282.8	525.2

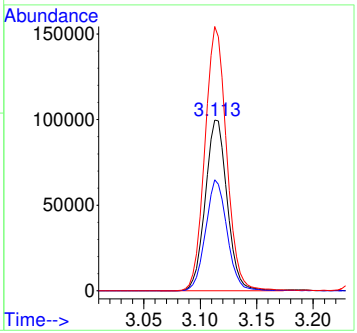


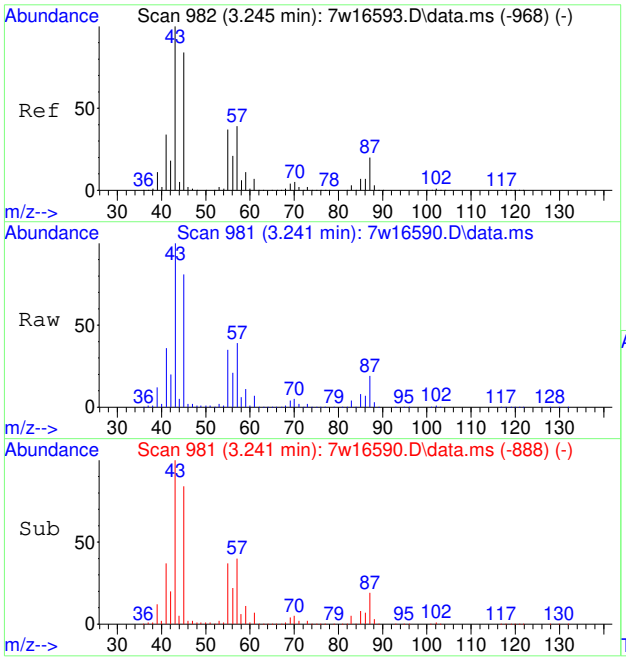


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.34 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 134402

Ion	Ratio	Lower	Upper
96	100		
98	63.9	46.8	86.8
61	153.3	78.3	145.5#

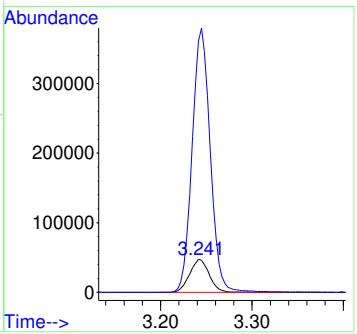




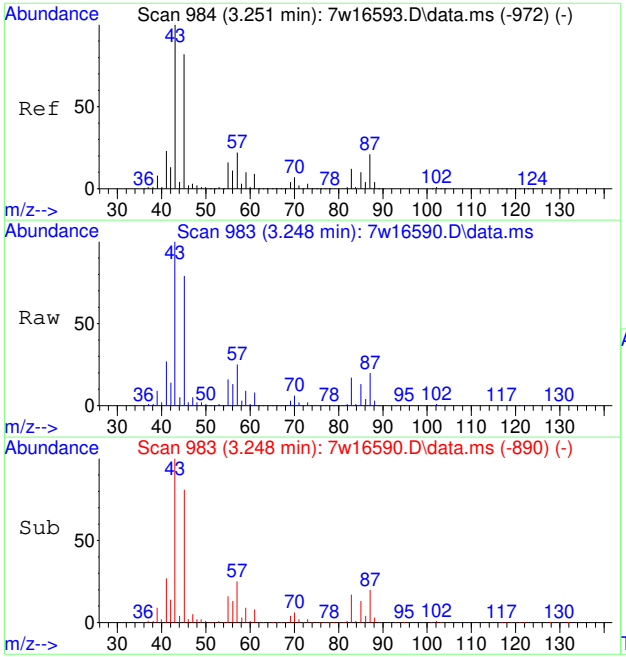
#43
DIISOPROPYL ETHER
Concen: 10.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 59 Resp: 70916

Ion	Ratio	Lower	Upper
59	100		
45	739.4	532.1	988.1



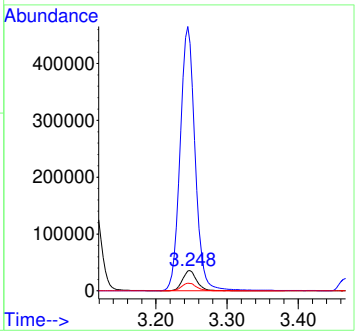
7.7.18

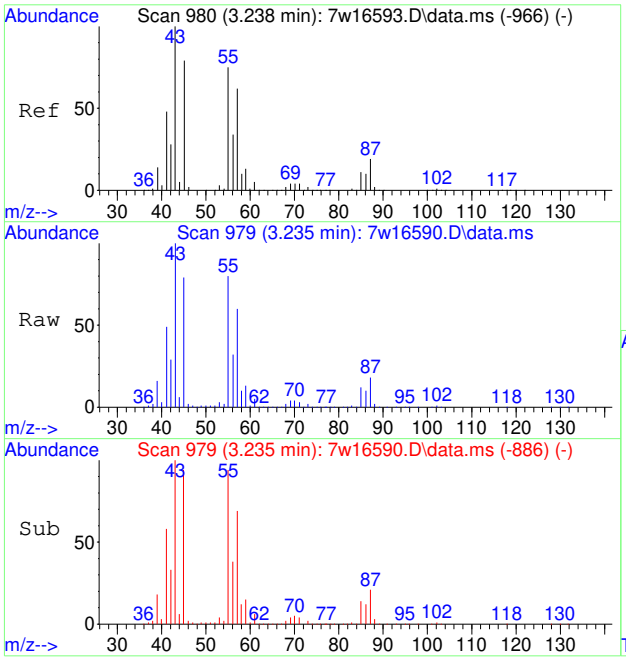


#44
ETHYL ACETATE
Concen: 10.49 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 61 Resp: 50059

Ion	Ratio	Lower	Upper
61	100		
43	1364.9	1127.5	2093.9
88	39.4	36.2	67.2

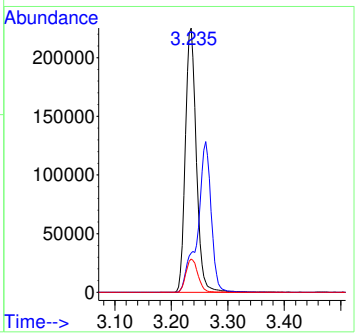


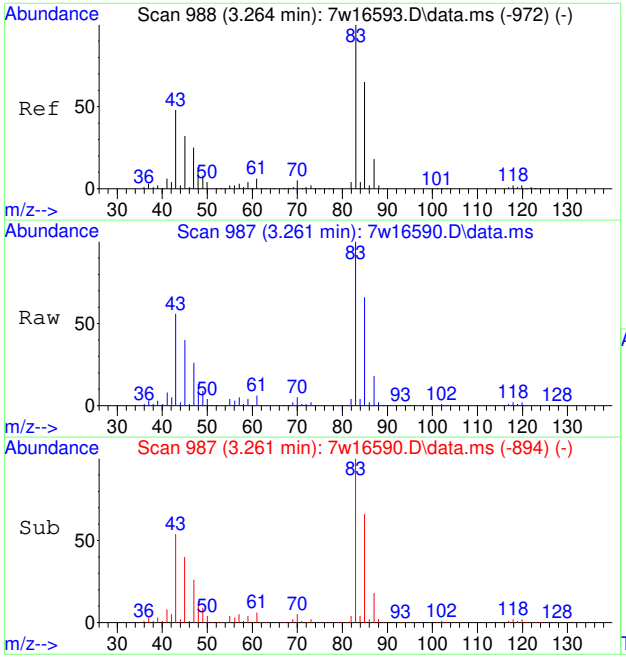


#45
METHYL ACRYLATE
Concen: 10.50 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 305217

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.8	9.2	17.0

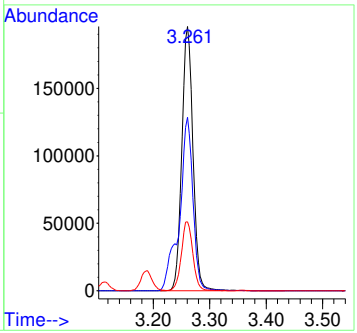


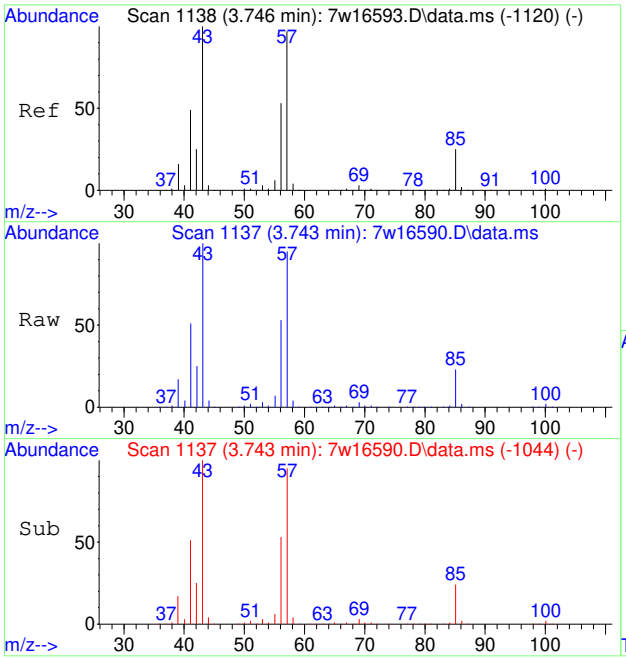


#46
CHLOROFORM
Concen: 10.50 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 269897

Ion	Ratio	Lower	Upper
83	100		
85	80.0	54.6	101.4
47	27.2	17.9	33.3

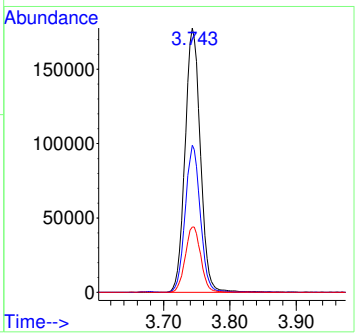


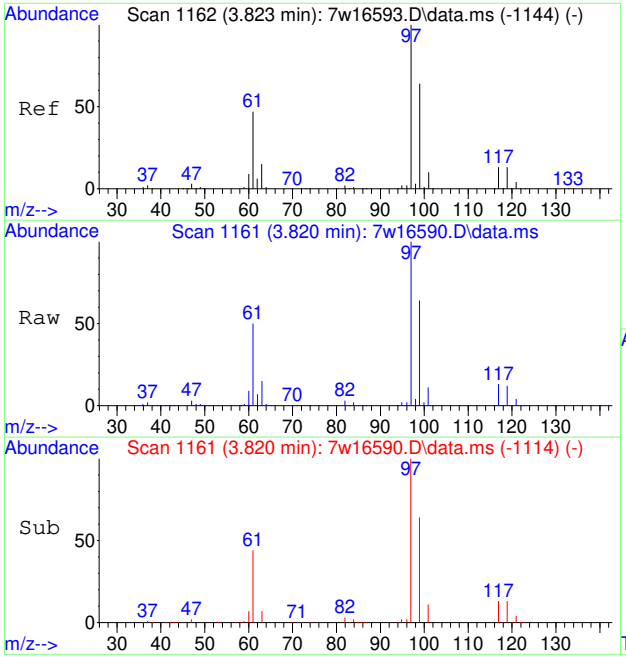


#47
2,4-DIMETHYLPENTANE
Concen: 10.70 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 286654

Ion	Ratio	Lower	Upper
57	100		
56	54.8	39.2	72.8
85	25.0	24.1	44.7

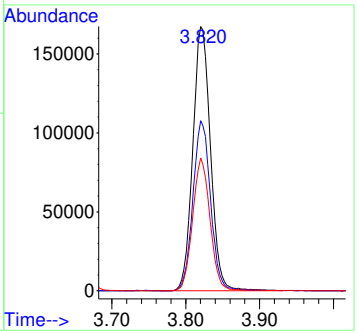


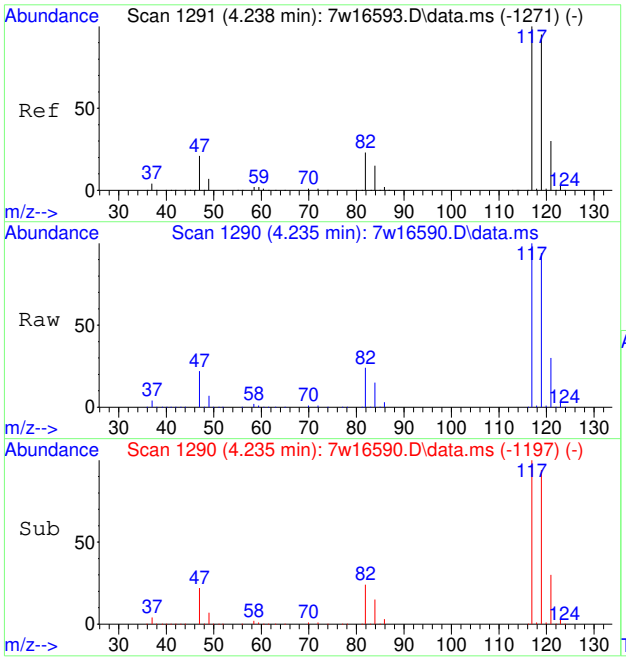


#48
1,1,1-TRICHLOROETHANE
Concen: 10.38 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 97 Resp: 278334

Ion	Ratio	Lower	Upper
97	100		
99	64.3	44.9	83.5
61	49.6	28.6	53.0

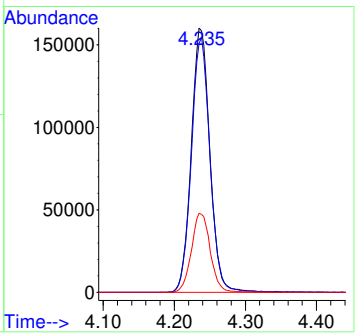


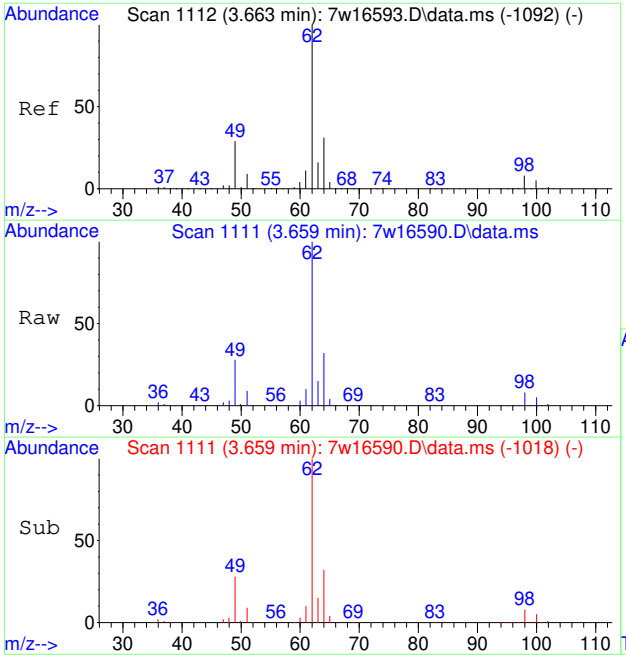


#49
CARBON TETRACHLORIDE
Concen: 10.20 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 291854

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

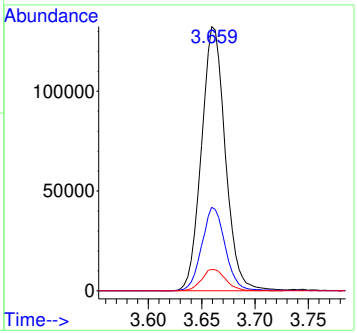


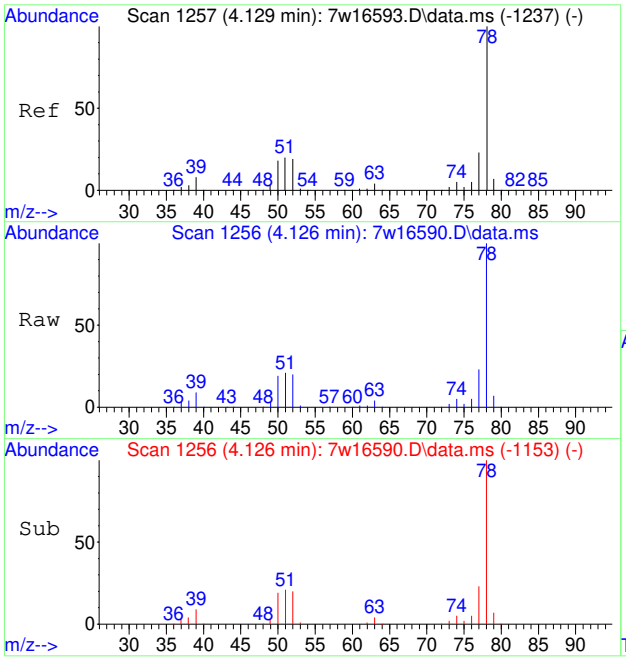


#50
1,2-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 205888

Ion	Ratio	Lower	Upper
62	100		
64	31.2	22.5	41.7
98	8.3	6.8	12.6

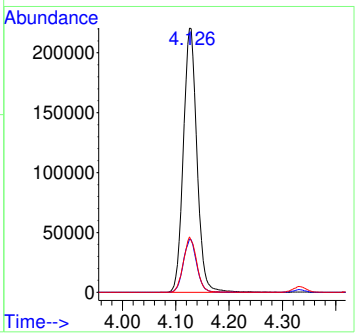


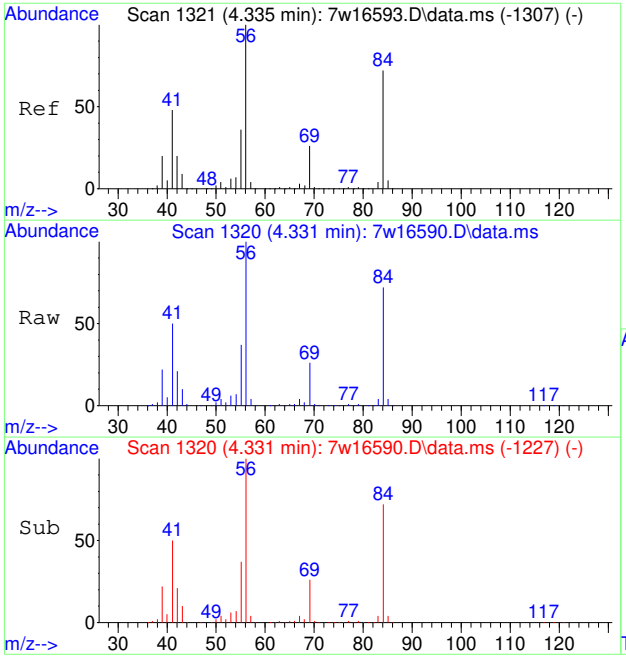


#51
BENZENE
Concen: 10.41 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 78 Resp: 391334

Ion	Ratio	Lower	Upper
78	100		
52	19.9	0.0	44.6
51	20.6	0.0	47.3

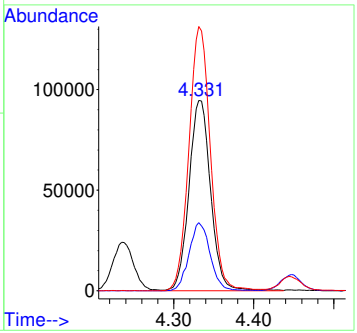


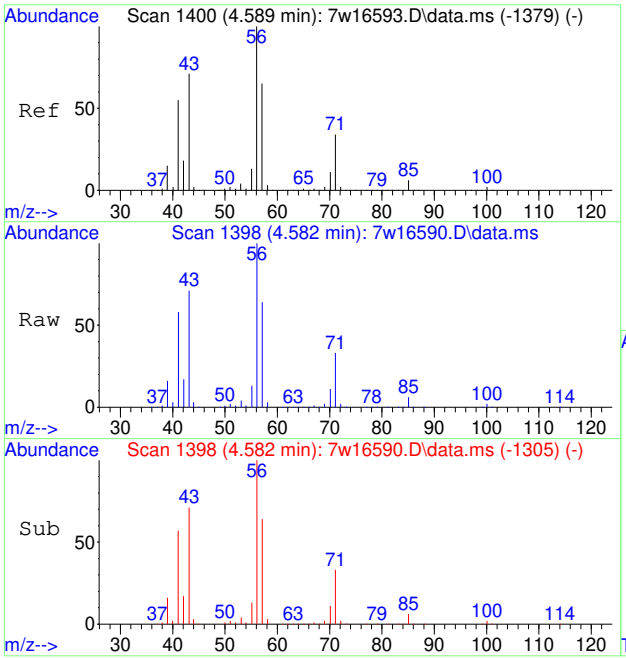


#53
CYCLOHEXANE
Concen: 10.40 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 177560

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	137.7	70.2	130.4#

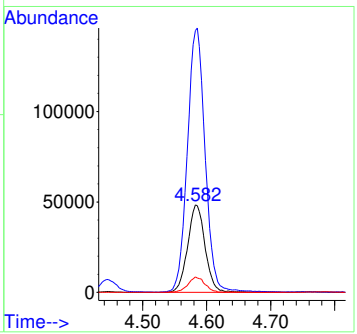


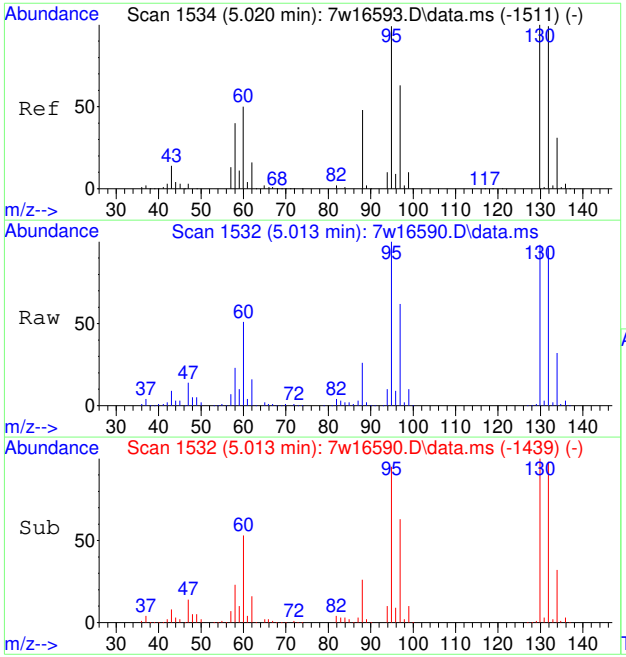


#54
2,3-DIMETHYLPENTANE
Concen: 10.60 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 71 Resp: 92078

Ion	Ratio	Lower	Upper
71	100		
56	304.6	171.4	318.4
85	17.4	12.6	23.4

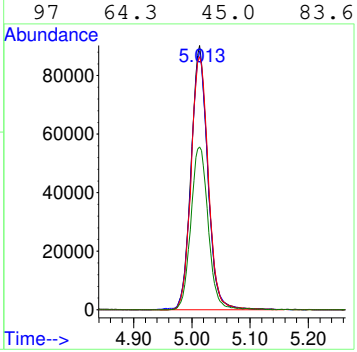


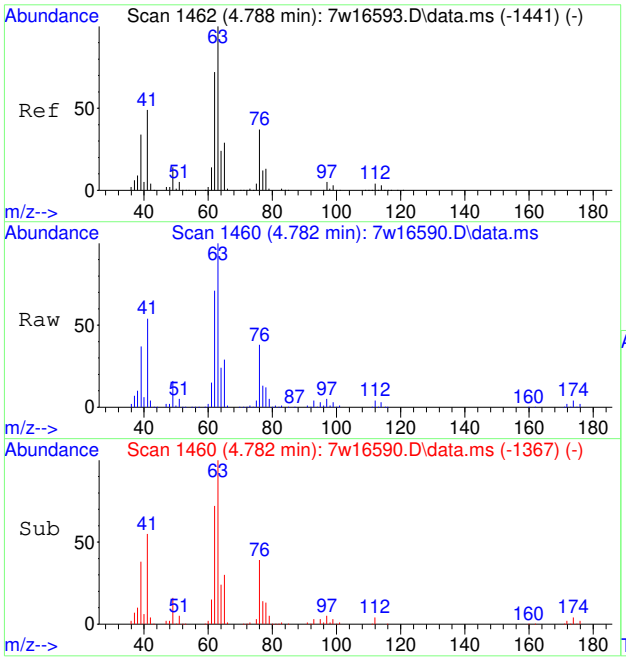


#55
TRICHLOROETHENE
Concen: 9.90 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 95 Resp: 180016

Ion	Ratio	Lower	Upper
95	100		
130	99.2	85.9	159.5
132	99.1	79.4	147.4
97	64.3	45.0	83.6

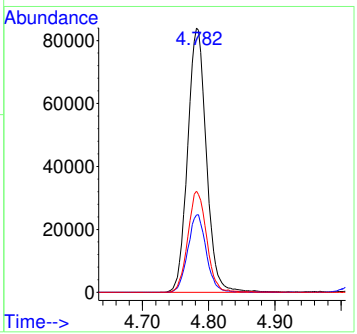


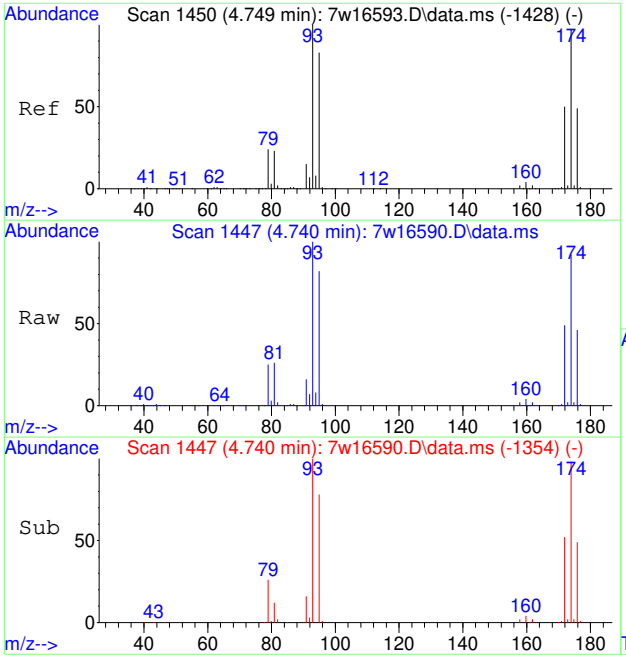


#56
1,2-DICHLOROPROPANE
Concen: 10.30 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 164997

Ion	Ratio	Lower	Upper
63	100		
65	29.3	22.6	42.0
76	38.7	31.8	59.0

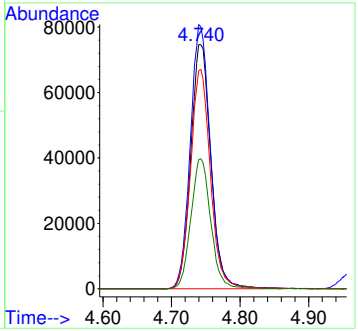


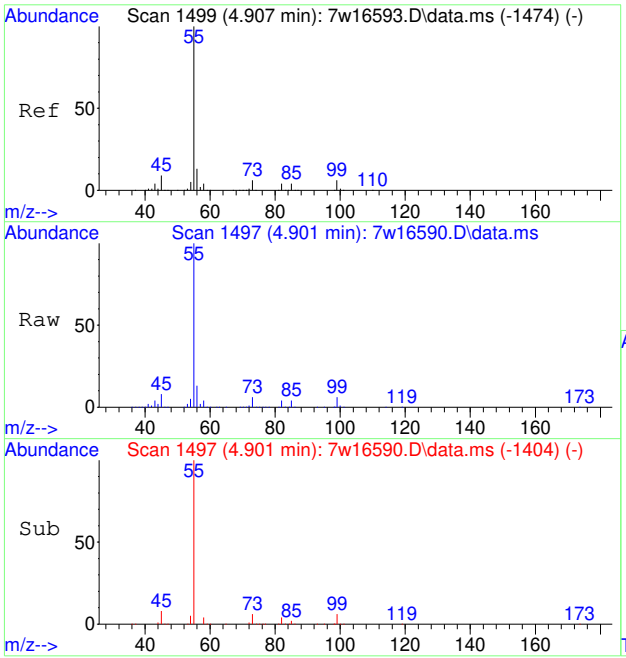


#57
DIBROMOMETHANE
Concen: 10.28 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:174 Resp: 152742

Ion	Ratio	Lower	Upper
174	100		
93	107.6	67.3	125.1
95	89.1	56.8	105.6
172	52.3	36.3	67.5

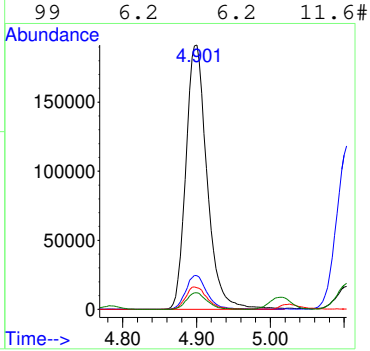


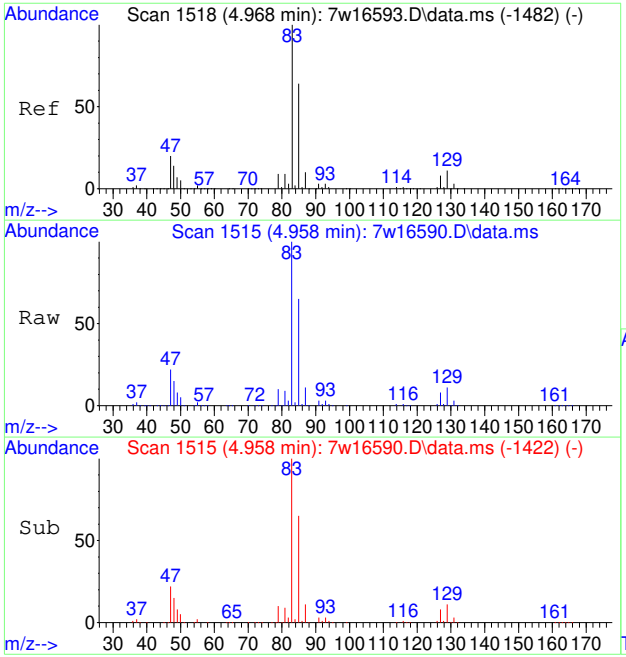


#58
ETHYL ACRYLATE
Concen: 10.50 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 381569

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.7	6.6	12.2
99	6.2	6.2	11.6#

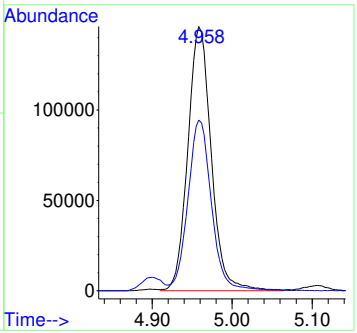


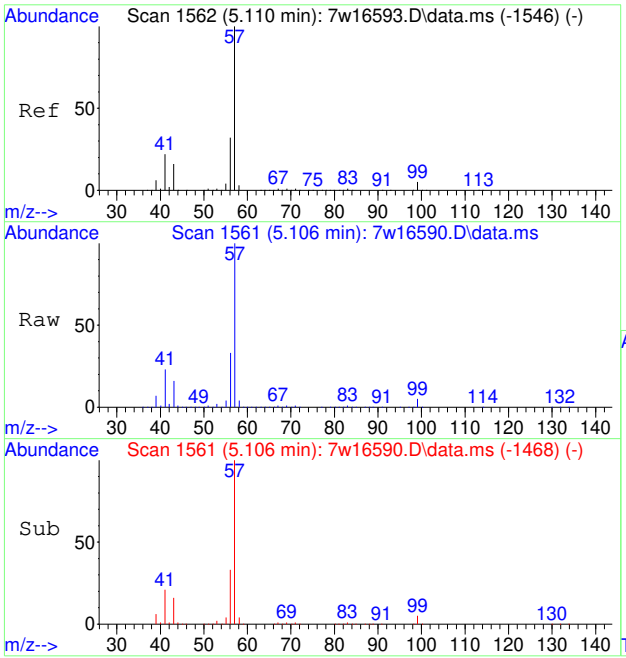


#59
BROMODICHLOROMETHANE
Concen: 9.90 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 297999

Ion	Ratio	Lower	Upper
83	100		
85	65.2	44.9	83.5

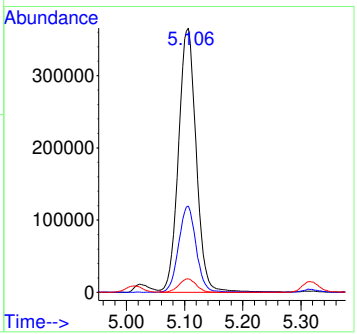


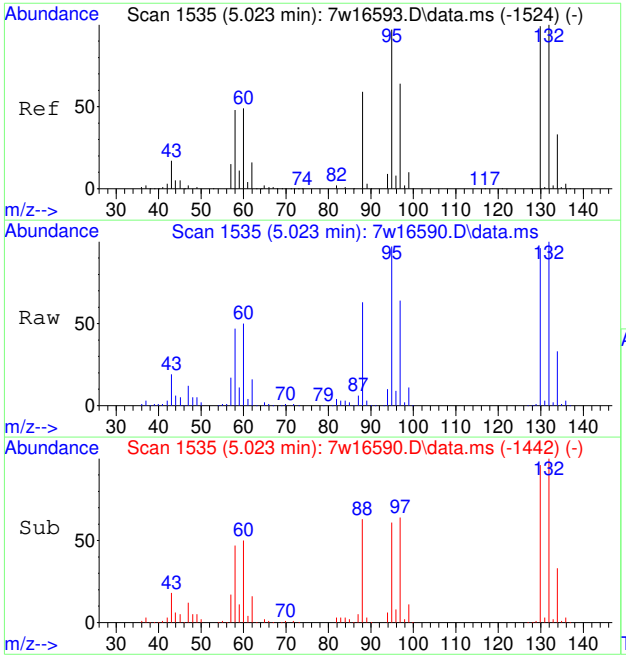


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.20 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 772831

Ion	Ratio	Lower	Upper
57	100		
56	32.3	24.4	45.2
99	5.2	5.2	9.6#

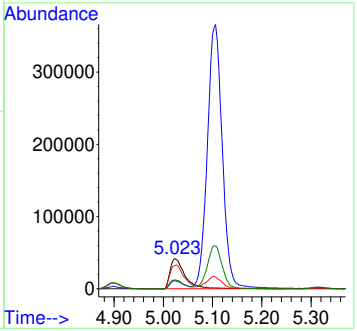


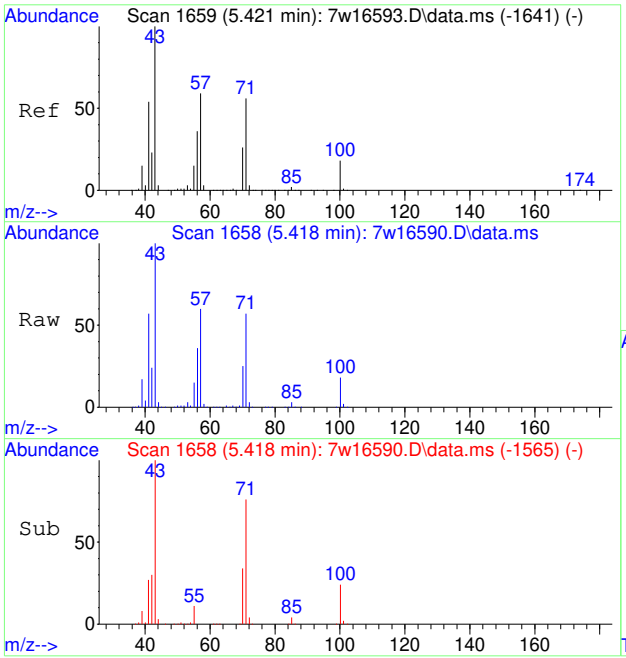


#61
1,4-DIOXANE
Concen: 9.94 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 88 Resp: 89212

Ion	Ratio	Lower	Upper
88	100		
57	23.8	13.1	24.3
58	74.9	39.1	72.5#
43	26.4	18.3	33.9

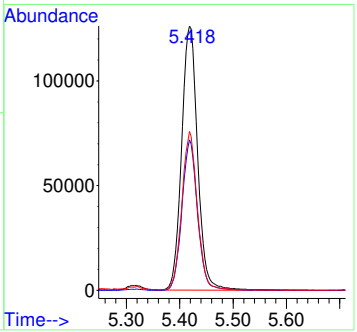


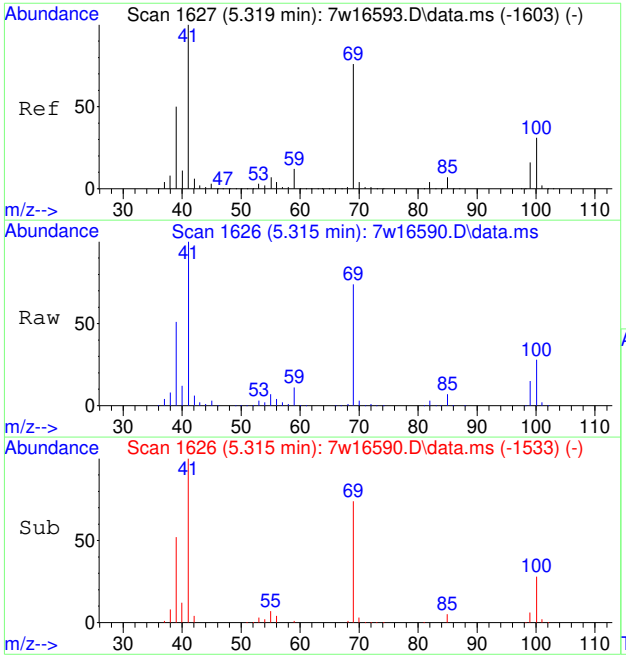


#62
HEPTANE
Concen: 10.40 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 263524

Ion	Ratio	Lower	Upper
43	100		
71	55.5	45.0	83.6
57	57.9	37.2	69.0

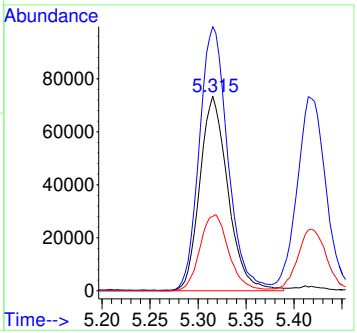


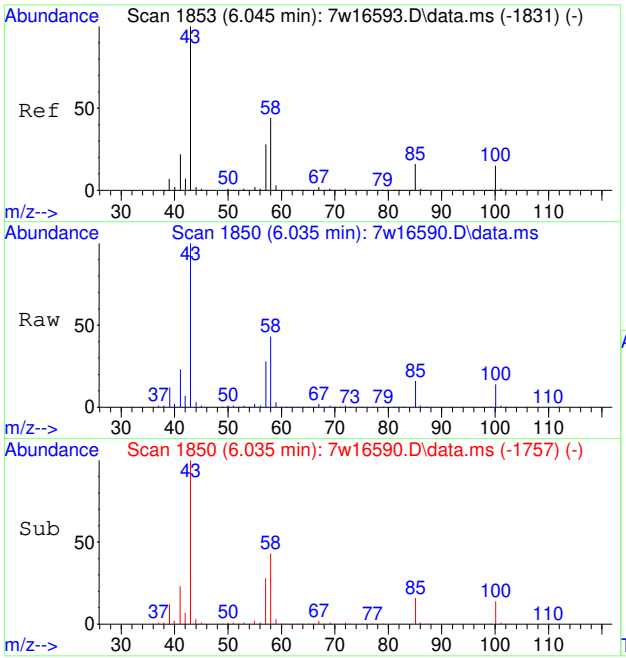


#63
METHYL METHACRYLATE
Concen: 10.30 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 149851

Ion	Ratio	Lower	Upper
69	100		
41	136.5	84.3	156.5
100	40.1	30.8	57.2

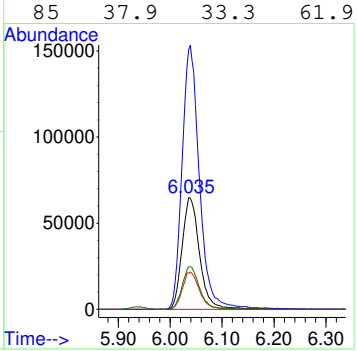


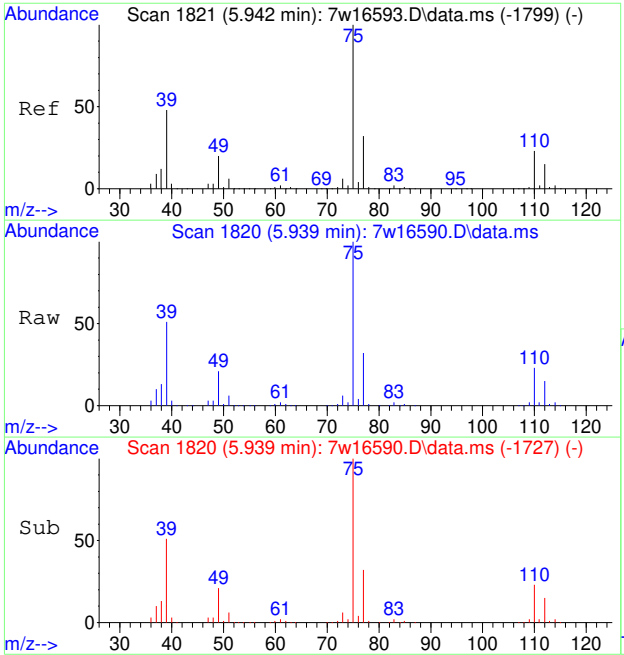


#64
METHYL ISOBUTYL KETONE
Concen: 10.20 PPBV
RT: 6.035 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 152356

Ion	Ratio	Lower	Upper
58	100		
43	234.0	193.8	360.0
100	33.2	32.8	60.8
85	37.9	33.3	61.9

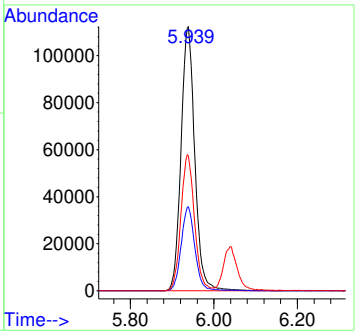


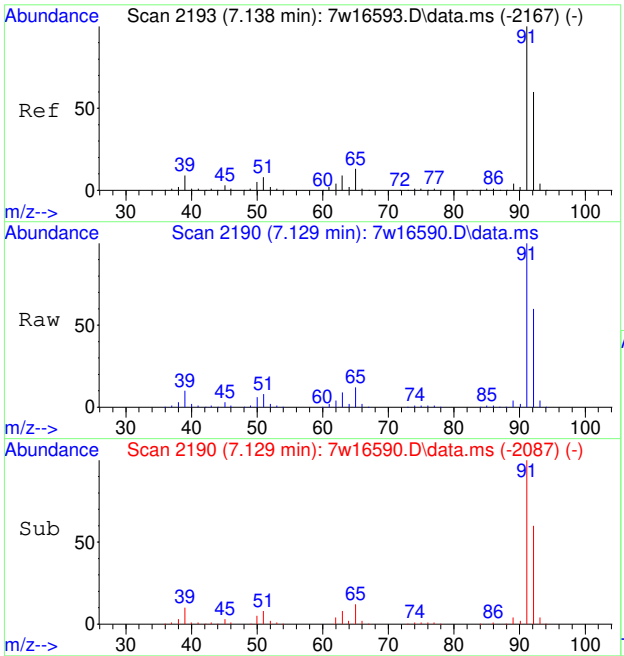


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.12 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 257147

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.0	38.5	71.5

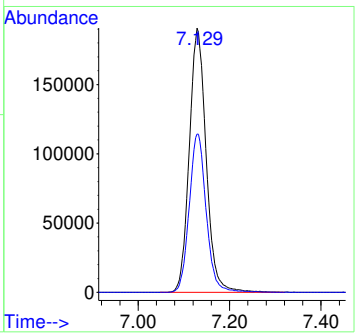


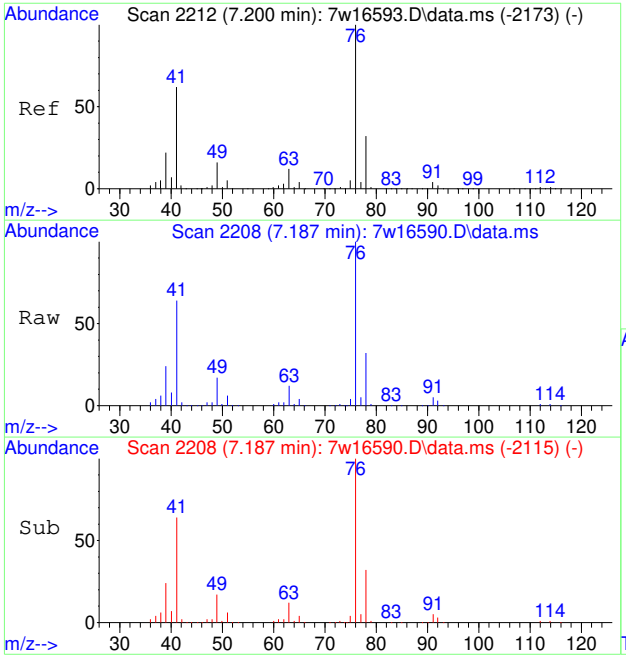


#66
TOLUENE
Concen: 10.60 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 488762

Ion	Ratio	Lower	Upper
91	100		
92	60.3	28.1	88.1

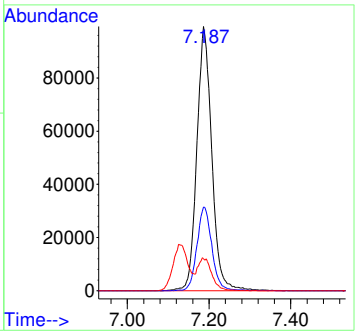


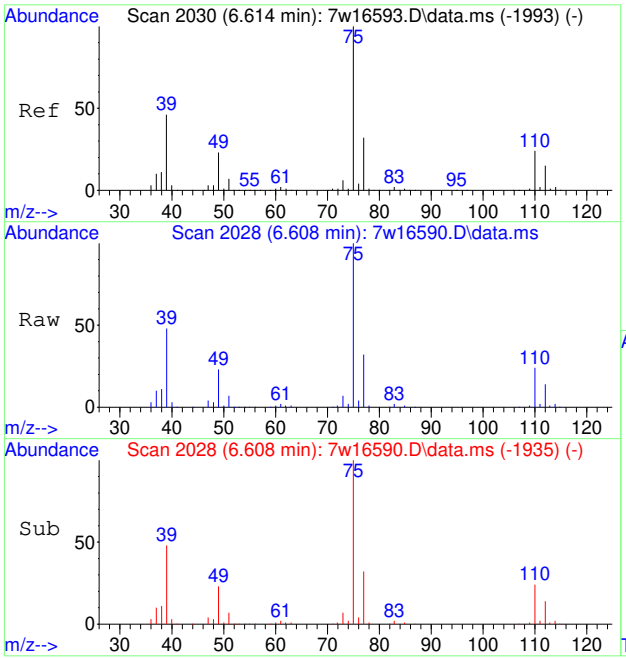


#67
1,3-DICHLOROPROPANE
Concen: 10.60 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 252760

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	11.9	8.0	14.8

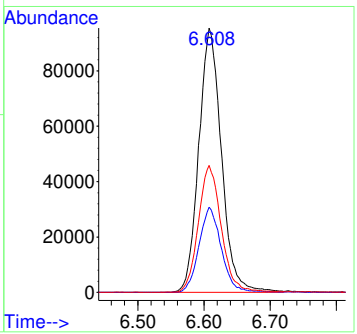


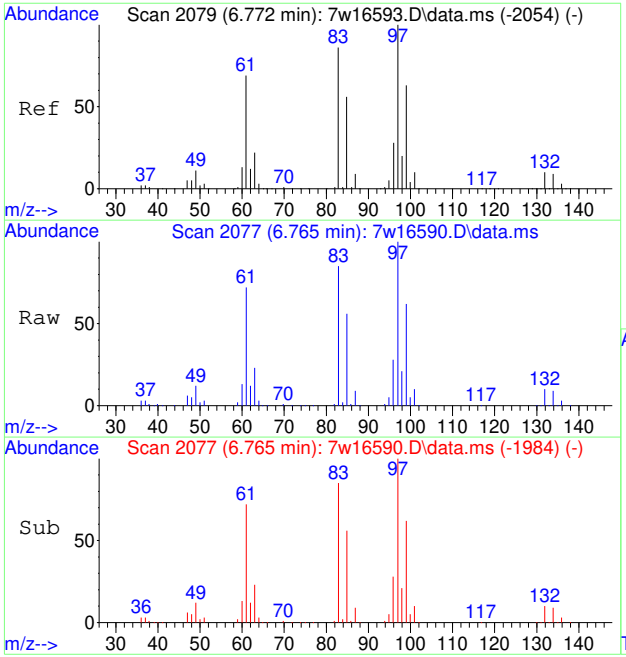


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 9.56 PPBV
RT: 6.608 min Scan# 2028
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 227014

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.5	41.7
39	48.5	37.2	69.0

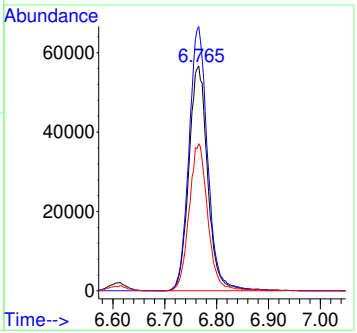


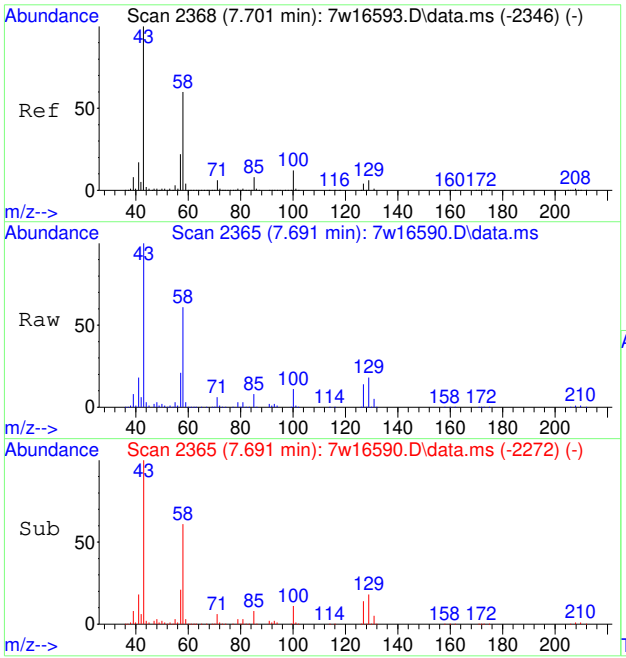


#69
1,1,2-TRICHLOROETHANE
Concen: 10.50 PPBV
RT: 6.765 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 143412

Ion	Ratio	Lower	Upper
83	100		
97	116.0	86.7	160.9
85	64.4	45.5	84.5

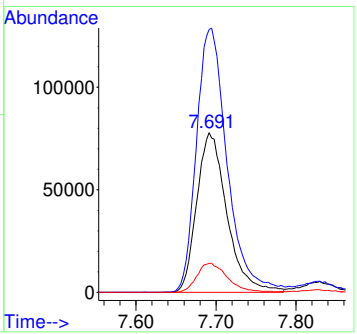


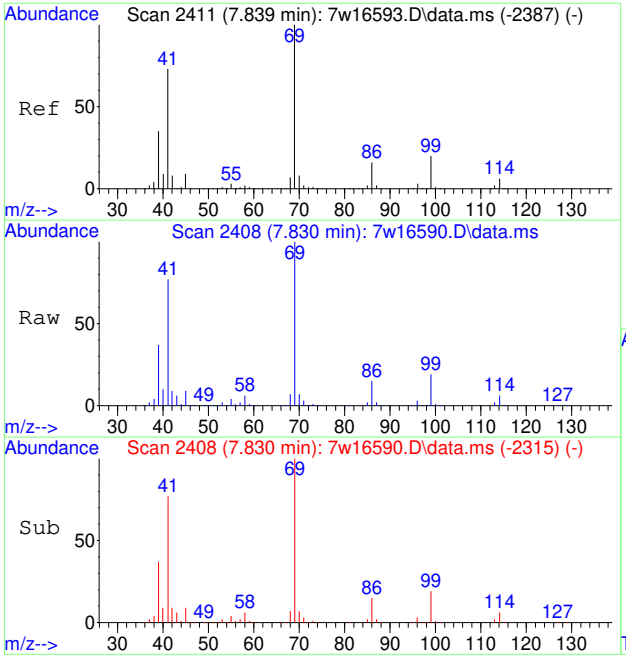


#70
2-HEXANONE
Concen: 10.38 PPBV
RT: 7.691 min Scan# 2365
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 203944

Ion	Ratio	Lower	Upper
58	100		
43	169.4	141.7	263.3
100	18.6	18.9	35.1#

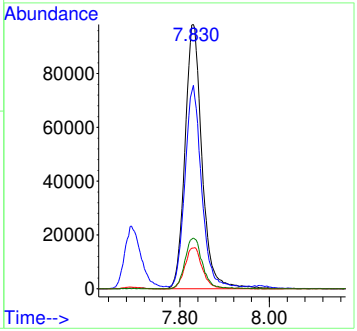


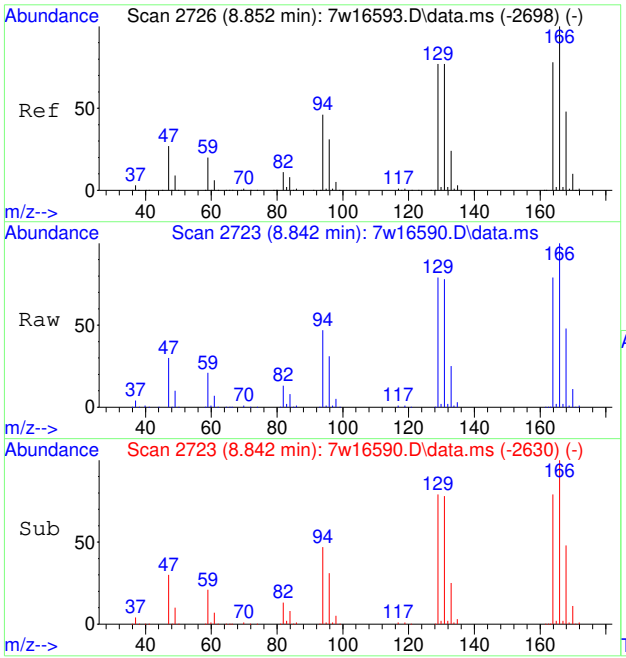


#71
ETHYL METHACRYLATE
Concen: 10.39 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 260130

Ion	Ratio	Lower	Upper
69	100		
41	76.6	49.3	91.6
86	16.1	11.6	21.6
99	19.7	13.4	24.8

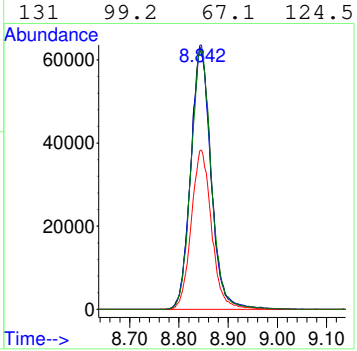


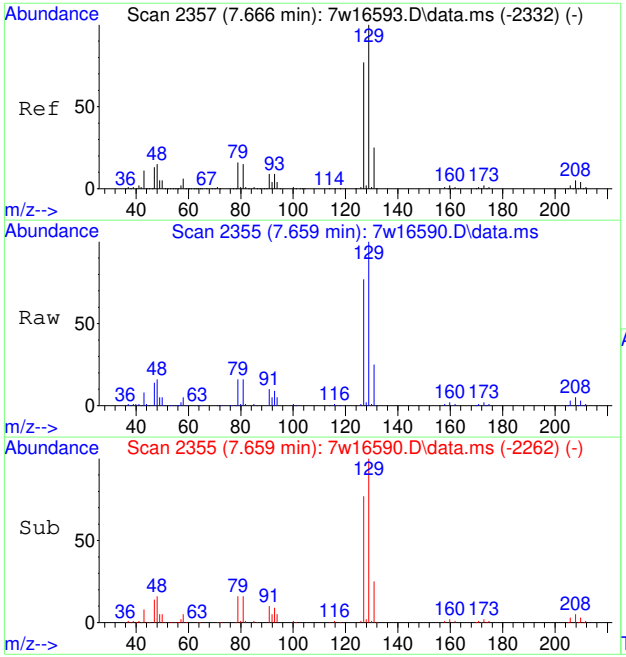


#72
TETRACHLOROETHENE
Concen: 10.70 PPBV
RT: 8.842 min Scan# 2723
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:164 Resp: 181618

Ion	Ratio	Lower	Upper
164	100		
129	99.4	69.7	129.5
168	60.7	43.4	80.6
131	99.2	67.1	124.5

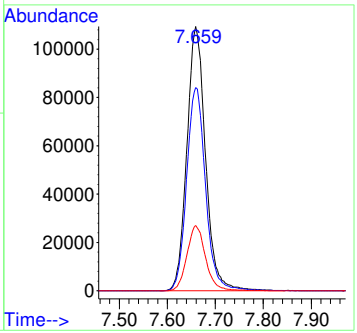


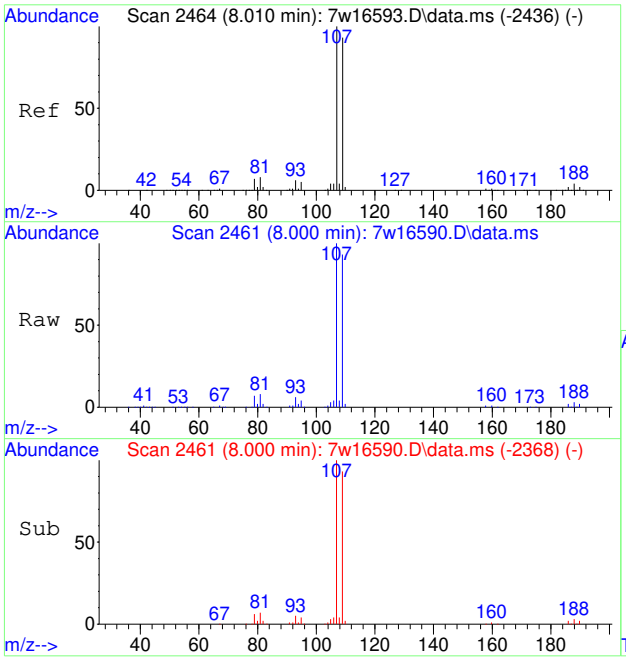


#73
DIBROMOCHLOROMETHANE
Concen: 10.40 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:129 Resp: 295382

Ion	Ratio	Lower	Upper
129	100		
127	78.2	53.0	98.4
131	24.9	16.9	31.3

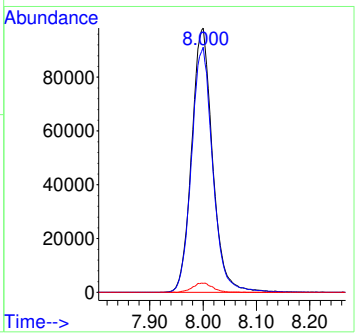


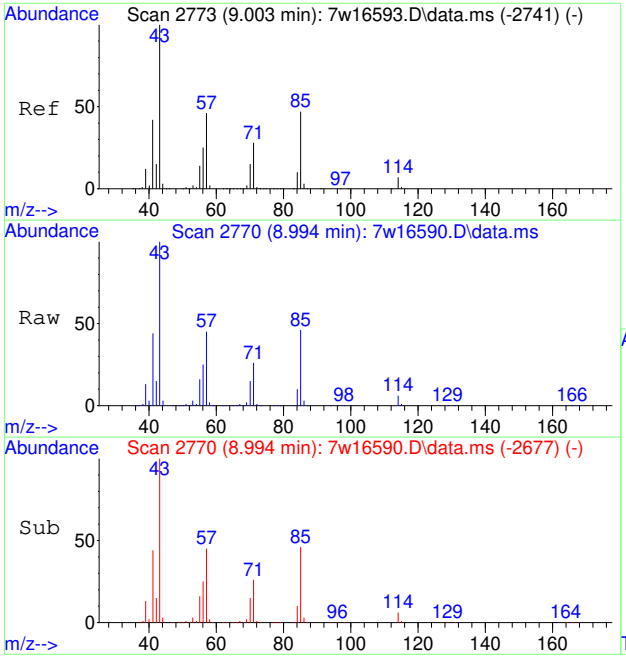


#74
1,2-DIBROMOETHANE
Concen: 10.99 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:107 Resp: 267727

Ion	Ratio	Lower	Upper
107	100		
109	94.5	65.7	122.1
188	3.5	2.4	4.4

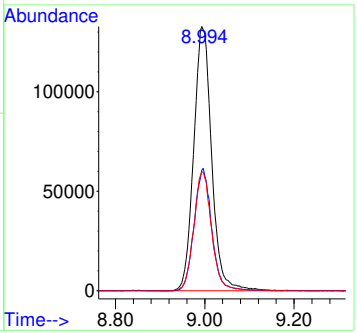


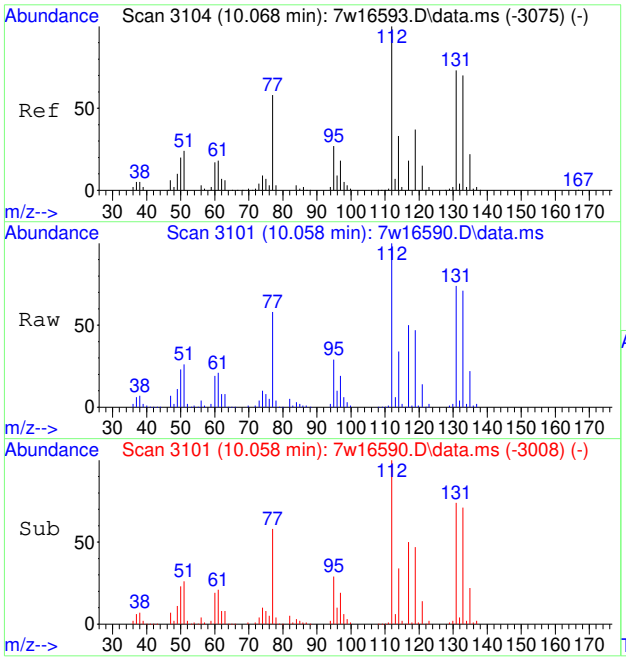


#75
OCTANE
Concen: 10.70 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 371213

Ion	Ratio	Lower	Upper
43	100		
85	45.4	36.5	67.9
57	44.8	27.6	51.2

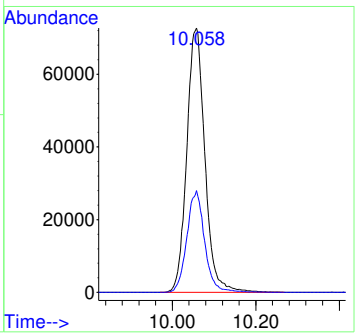


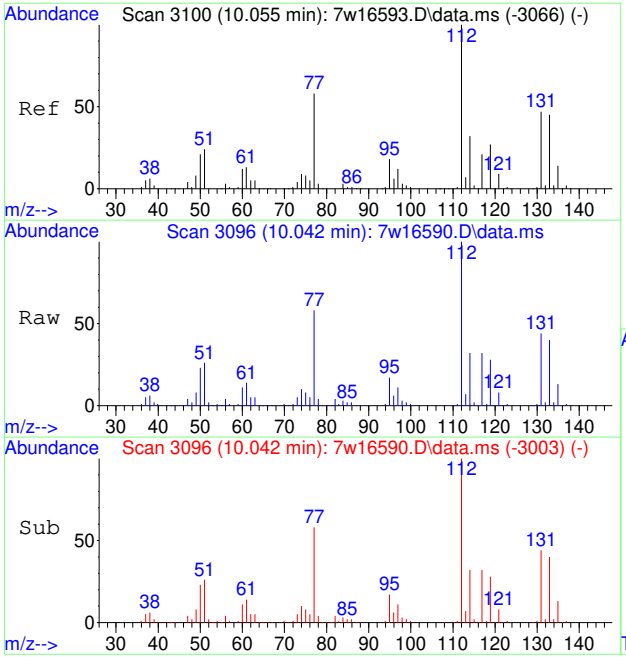


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.90 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:131 Resp: 219545

Ion	Ratio	Lower	Upper
131	100		
95	37.8	23.7	43.9

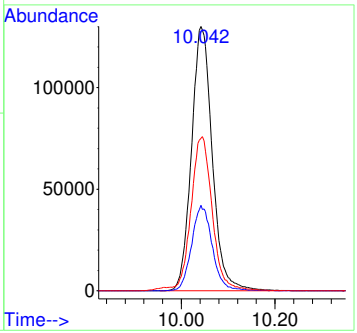


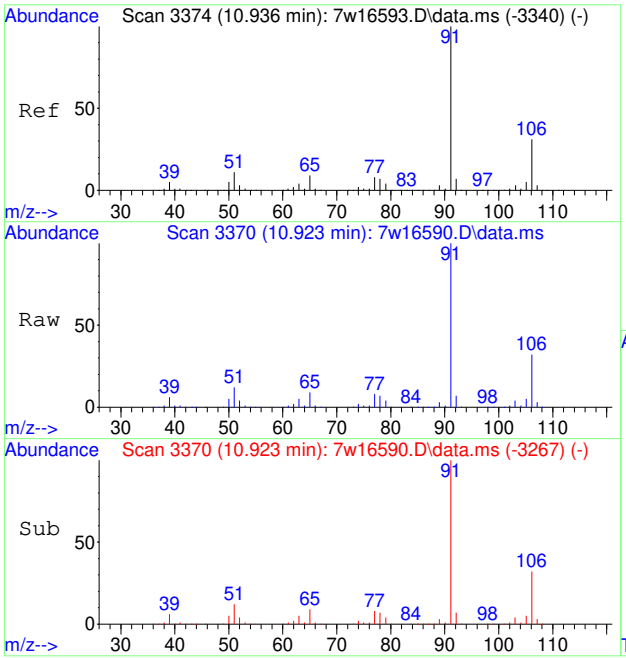


#78
CHLOROBENZENE
Concen: 10.90 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:112 Resp: 401465

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.9	42.5
77	60.1	34.4	63.8

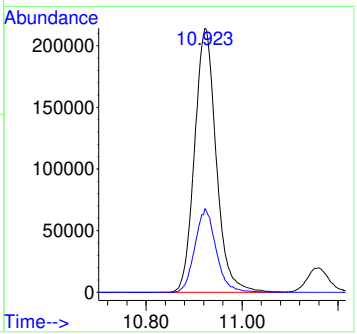


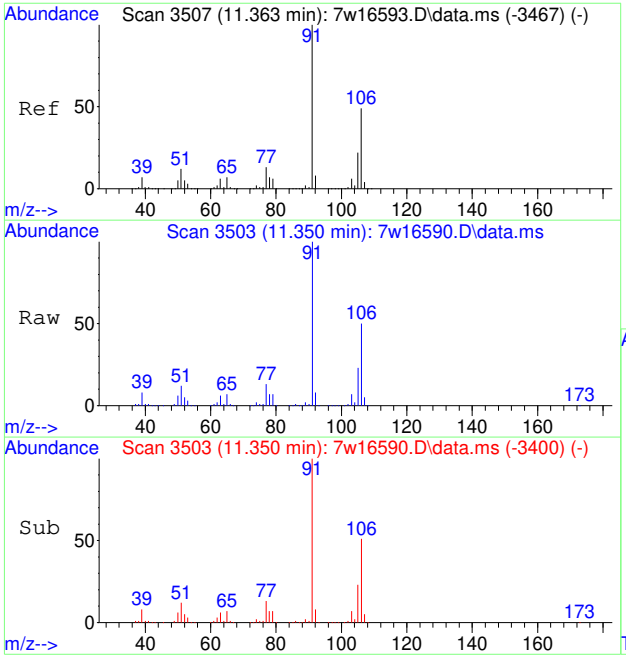


#79
ETHYLBENZENE
Concen: 11.00 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 667794

Ion	Ratio	Lower	Upper
91	100		
106	31.1	2.8	62.8

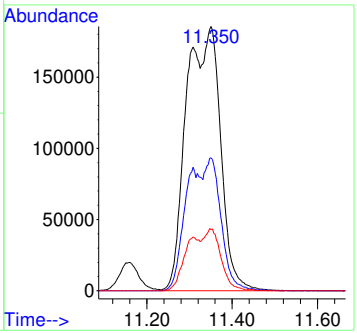


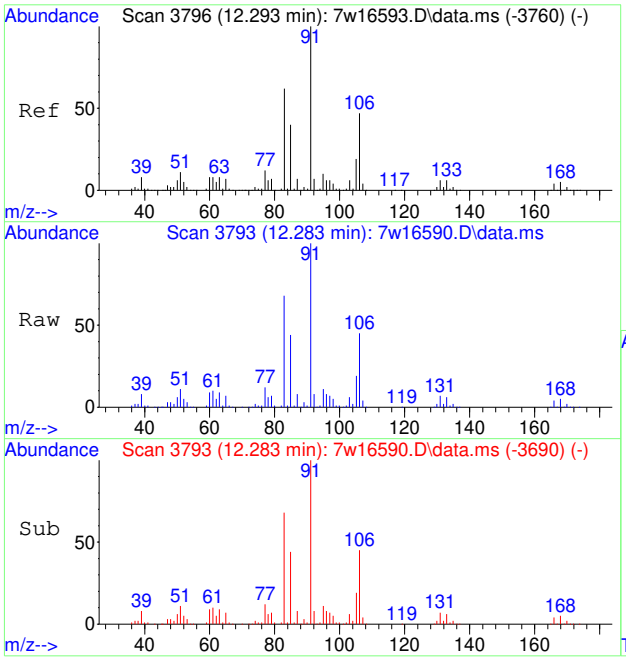


#80
M,P-XYLENE
Concen: 21.20 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 1033120

Ion	Ratio	Lower	Upper
91	100		
106	26.1	0.0	58.7
105	12.1	0.0	43.2

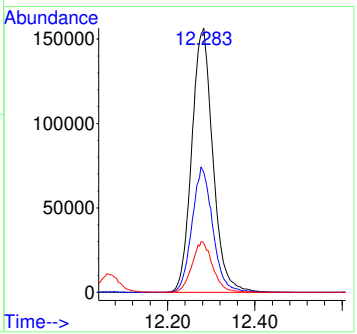


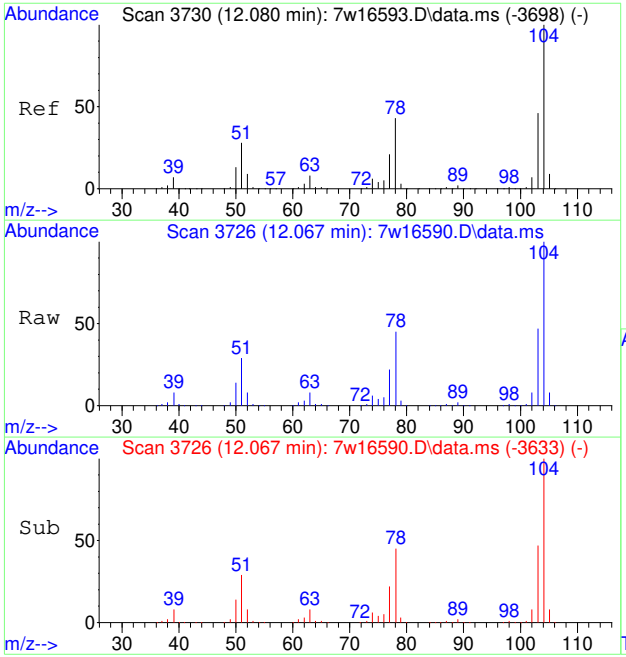


#81
O-XYLENE
Concen: 11.00 PPBV
RT: 12.283 min Scan# 3793
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 525465

Ion	Ratio	Lower	Upper
91	100		
106	45.4	34.1	63.3
105	18.6	14.6	27.2

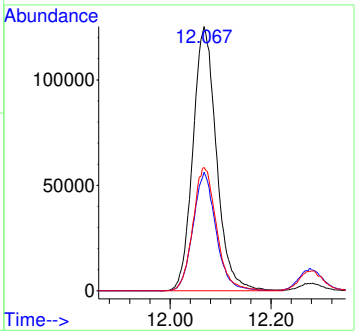


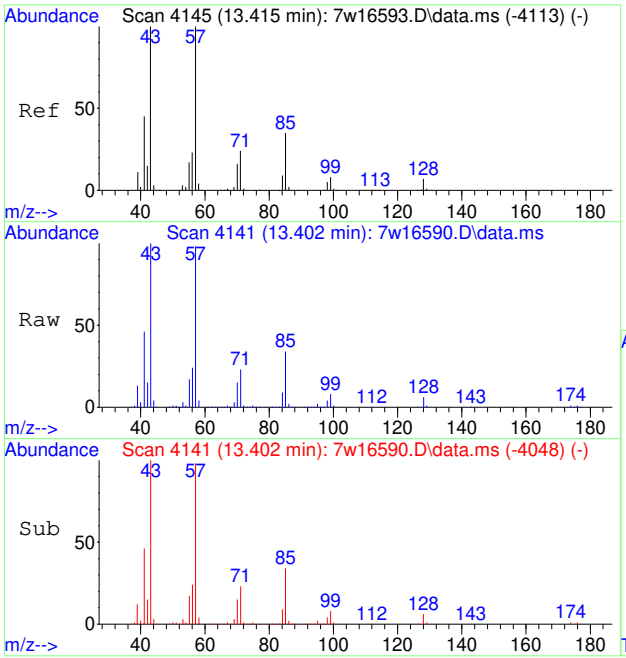


#82
STYRENE
Concen: 10.90 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:104 Resp: 405889

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	46.9	33.2	61.7

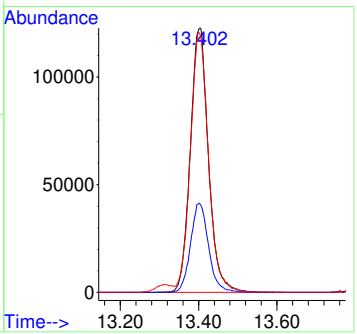


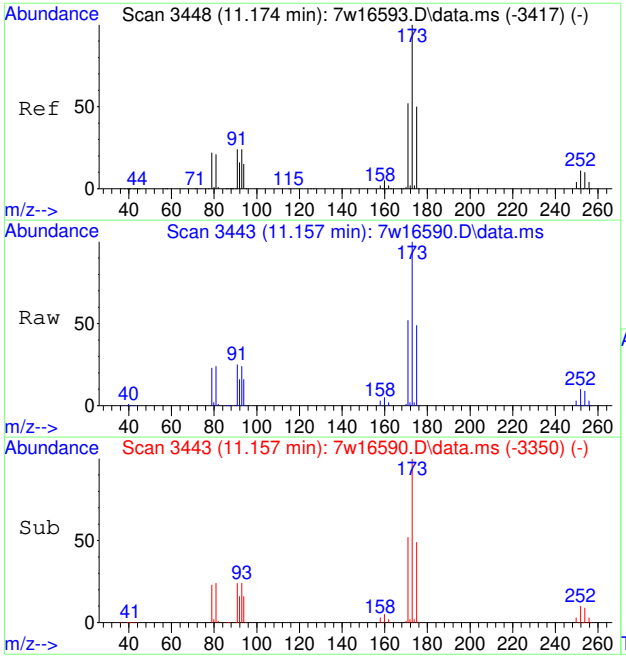


#83
NONANE
Concen: 10.80 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 395697

Ion	Ratio	Lower	Upper
43	100		
85	33.4	27.6	51.2
57	98.9	56.4	104.7

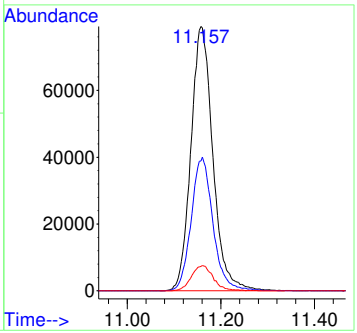


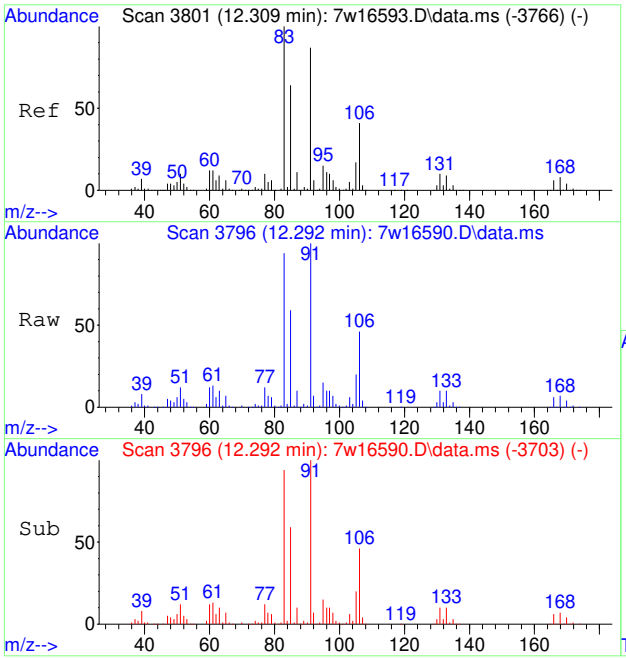


#84
BROMOFORM
Concen: 10.60 PPBV
RT: 11.157 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:173 Resp: 257628

Ion	Ratio	Lower	Upper
173	100		
175	50.1	33.0	61.4
254	9.6	5.9	10.9

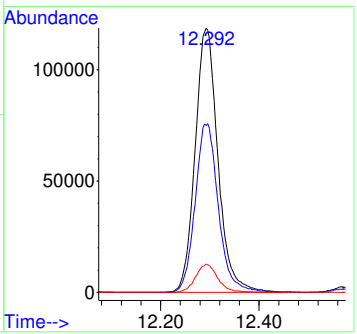


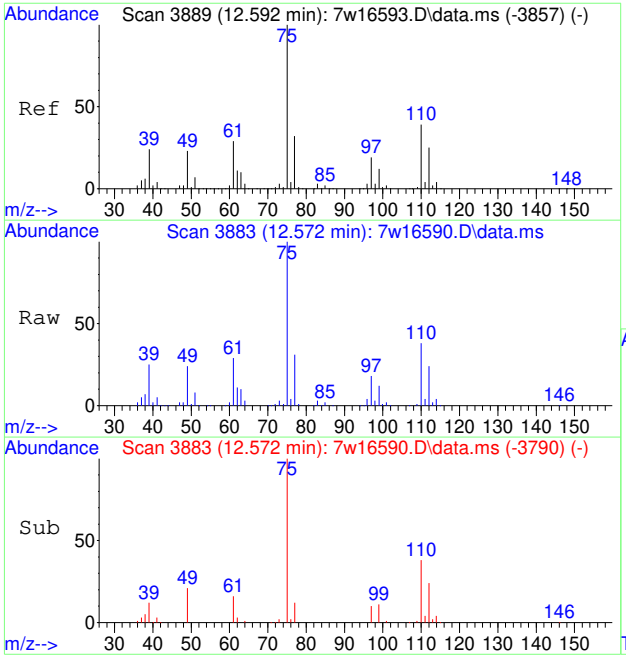


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 10.99 PPBV
RT: 12.292 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 382601

Ion	Ratio	Lower	Upper
83	100		
85	65.0	44.6	82.8
131	10.4	8.0	14.8

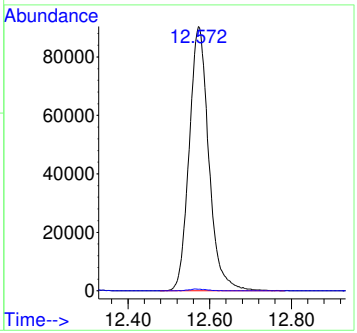


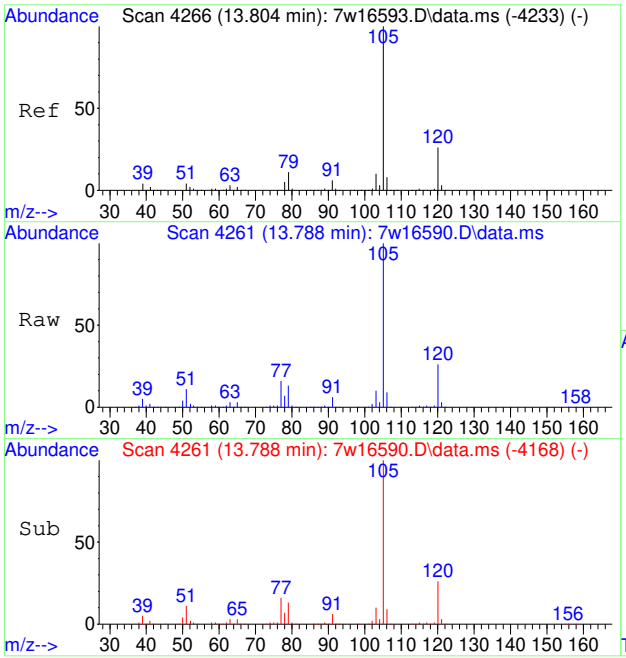


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.00 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 301186

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

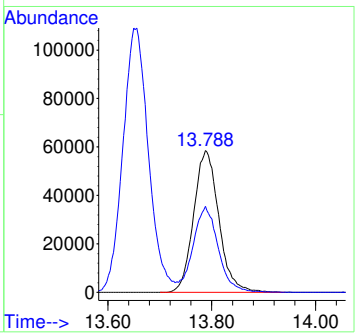


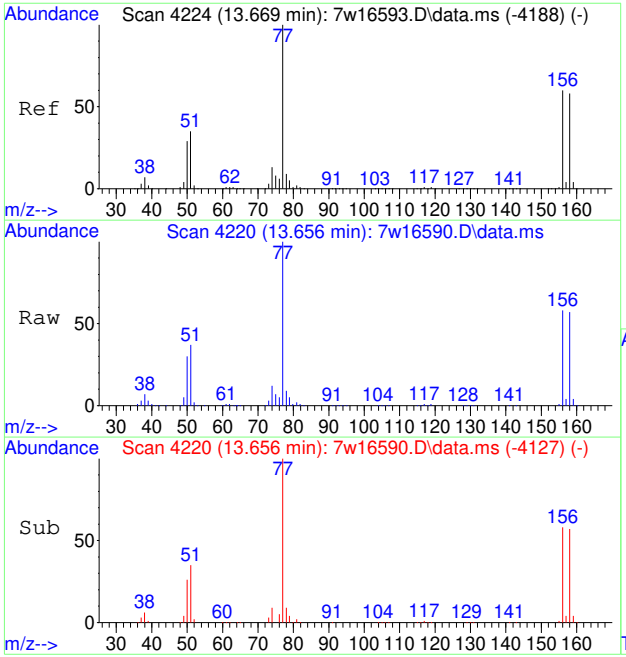


#88
ISOPROPYLBENZENE
Concen: 10.80 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 197546

Ion	Ratio	Lower	Upper
120	100		
77	60.7	36.0	67.0

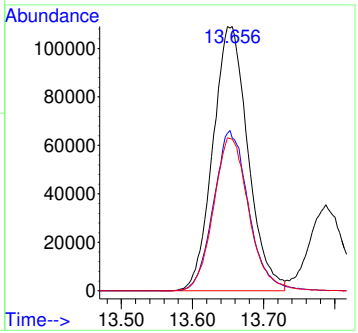


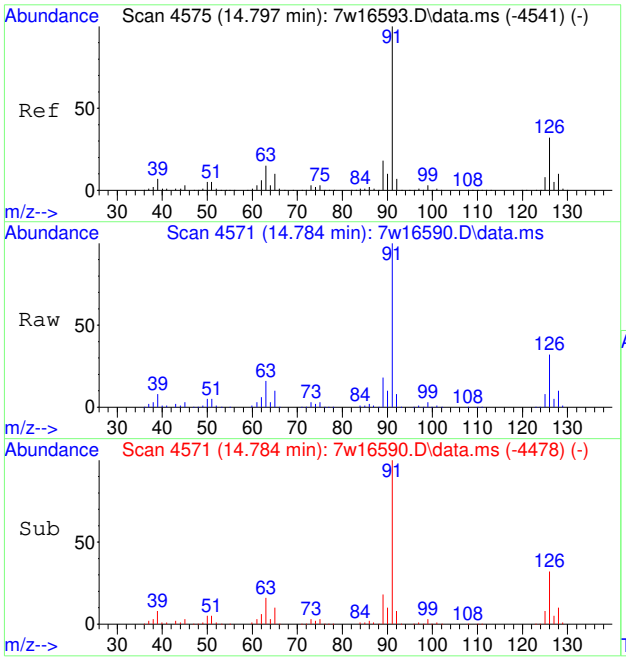


#89
BROMOBENZENE
Concen: 10.80 PPBV
RT: 13.656 min Scan# 4220
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 77 Resp: 373873

Ion	Ratio	Lower	Upper
77	100		
156	60.6	57.9	107.5
158	58.5	55.7	103.5

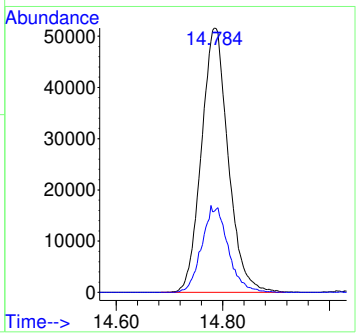


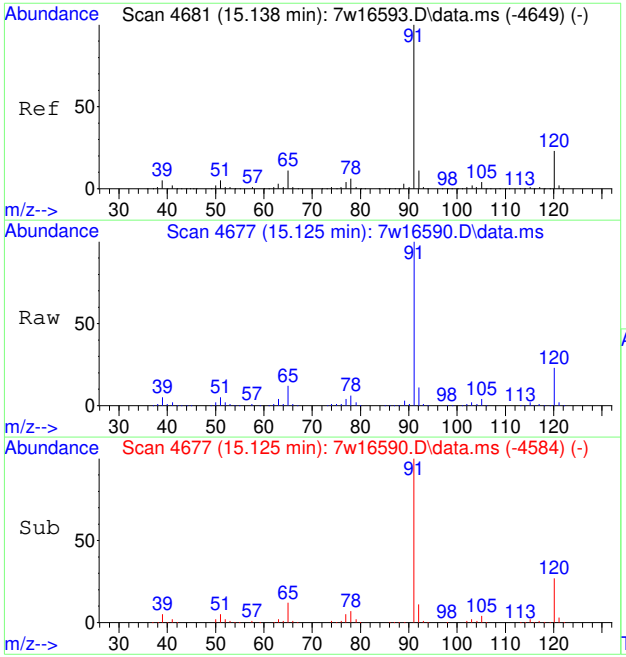


#90
2-CHLOROTOLUENE
Concen: 10.39 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:126 Resp: 179837

Ion	Ratio	Lower	Upper
126	100		
128	32.1	22.7	42.1

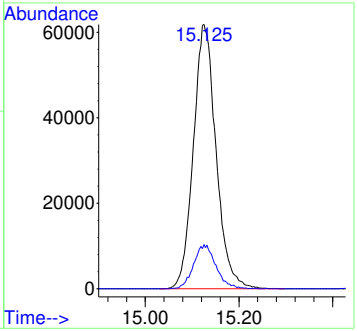


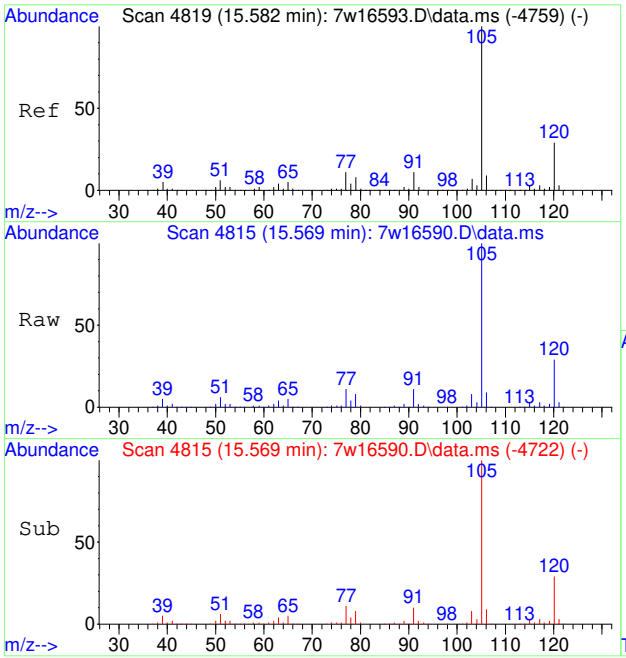


#91
N-PROPYLBENZENE
Concen: 10.50 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 208155

Ion	Ratio	Lower	Upper
120	100		
105	16.5	10.6	19.6

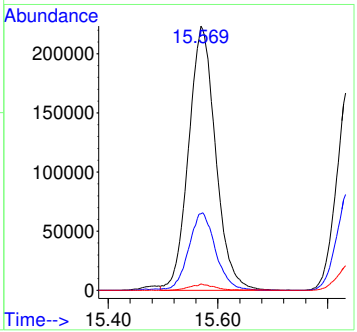


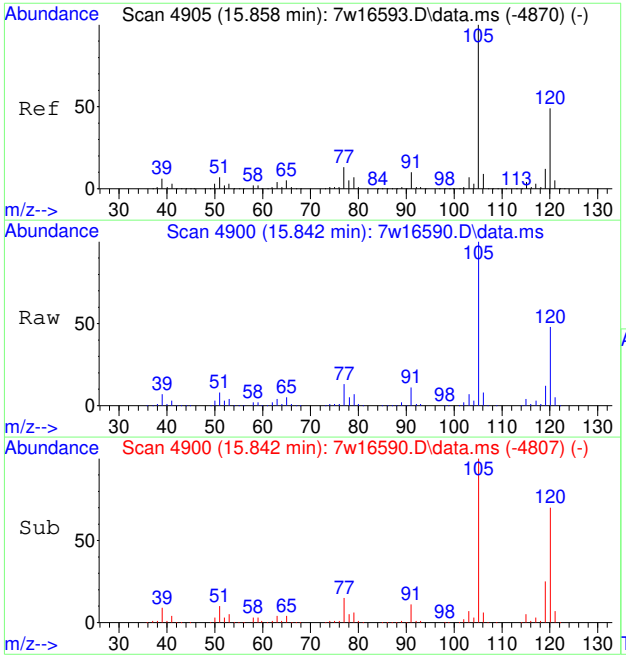


#92
4-ETHYLTOLUENE
Concen: 10.60 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 761814

Ion	Ratio	Lower	Upper
105	100		
120	29.6	21.8	40.4
119	2.3	1.7	3.1

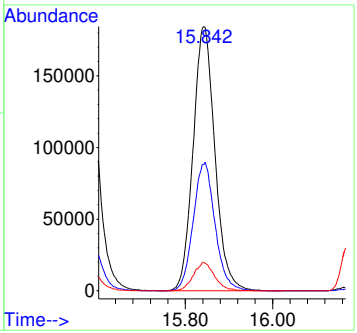


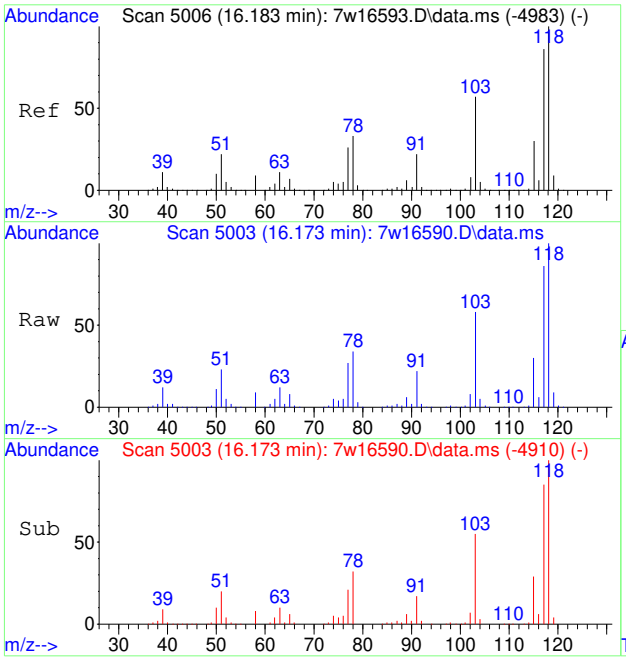


#93
1,3,5-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 641174

Ion	Ratio	Lower	Upper
105	100		
120	48.6	37.2	69.2
91	10.5	7.5	13.9

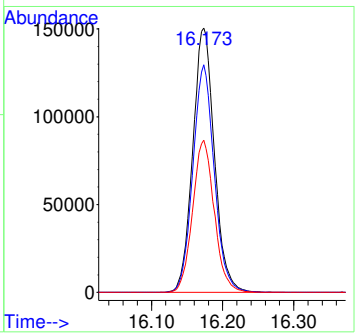


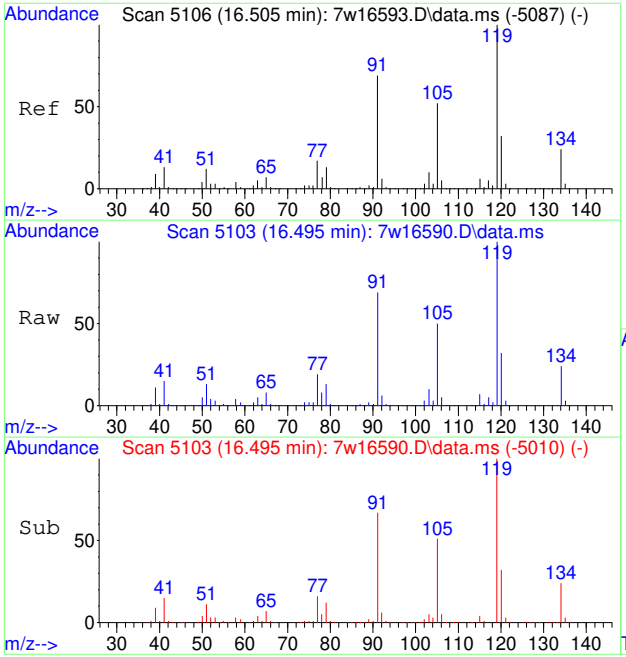


#94
ALPHA-METHYLSTYRENE
Concen: 10.40 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:118 Resp: 317898

Ion	Ratio	Lower	Upper
118	100		
117	85.2	59.9	111.3
103	57.6	36.2	67.2

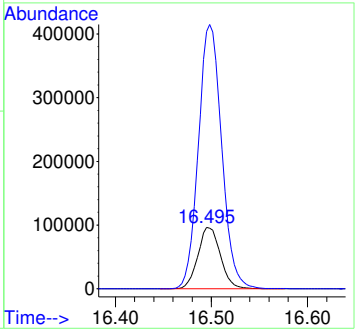


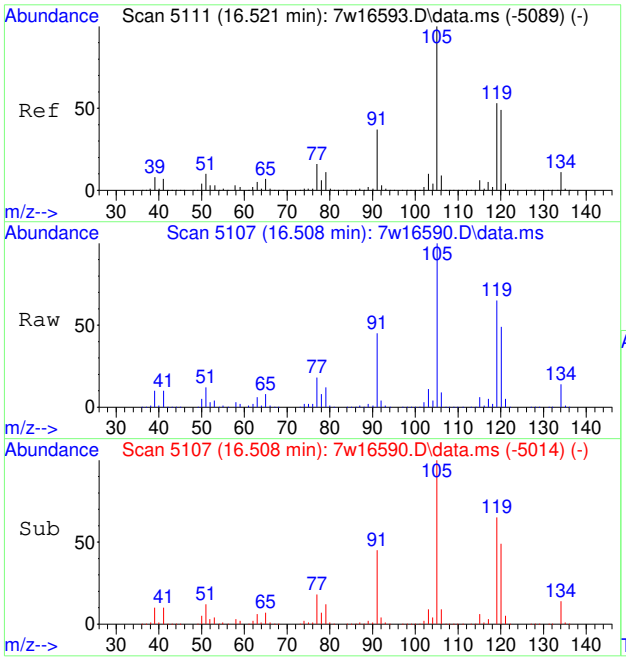


#95
TERT-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 157456

Ion	Ratio	Lower	Upper
134	100		
119	444.7	307.9	571.7

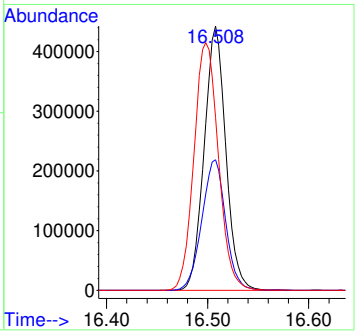


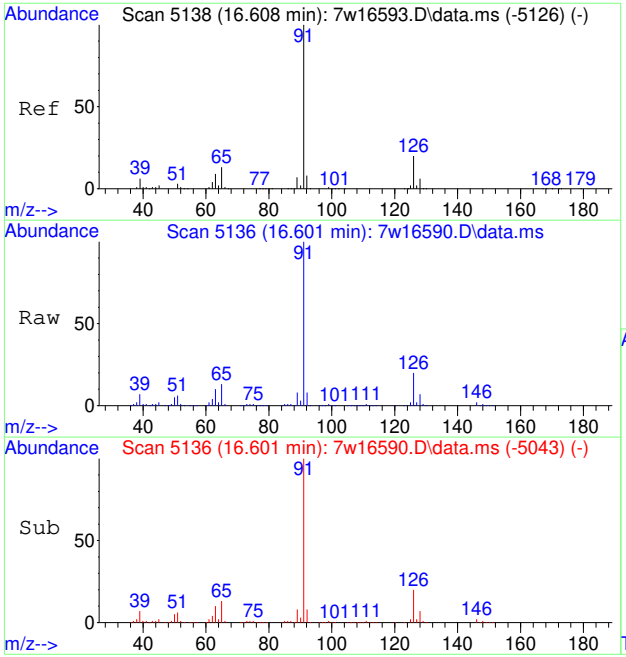


#96
1,2,4-TRIMETHYLBENZENE
Concen: 10.90 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 660136

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	106.1	78.0	144.8

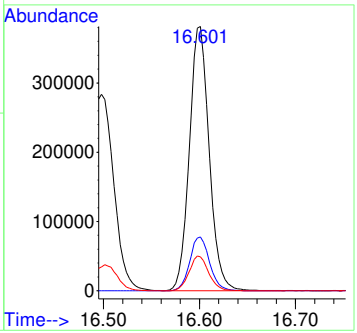


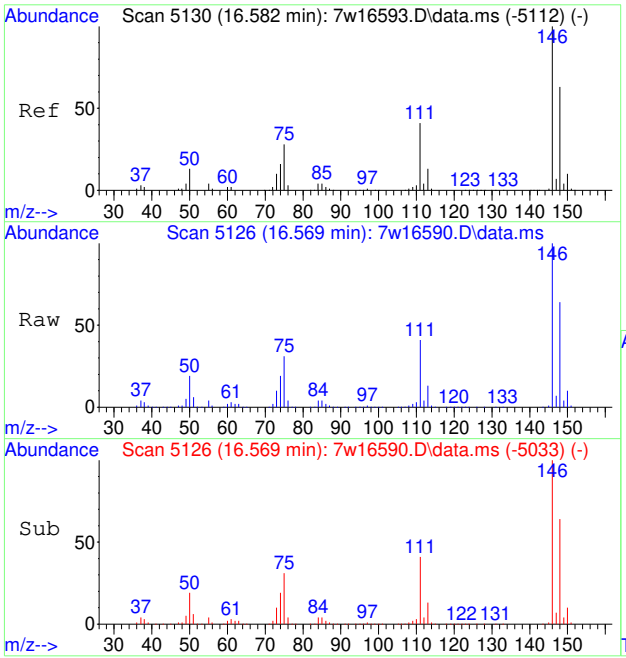


#97
BENZYL CHLORIDE
Concen: 10.50 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 547978

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	13.1	7.3	13.7

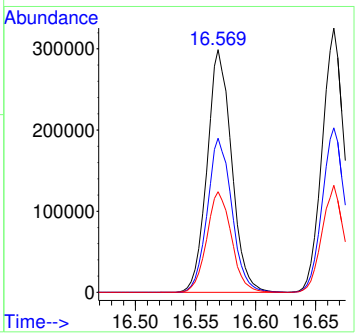


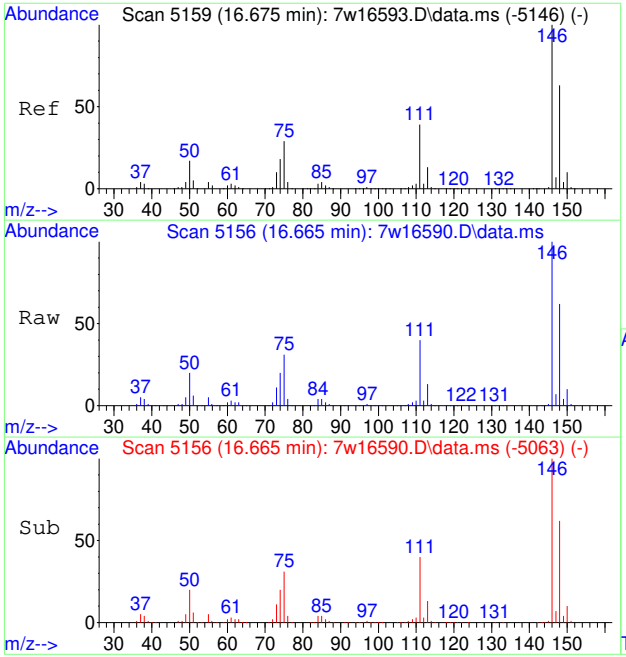


#98
M-DICHLOROBENZENE
Concen: 10.50 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 424825

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.8	25.4	47.2

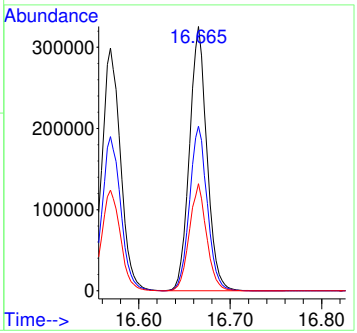


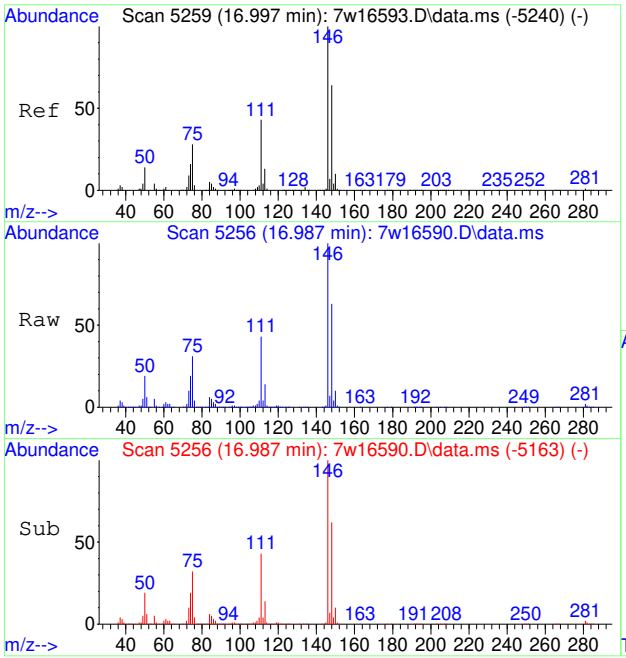


#99
P-DICHLOROBENZENE
Concen: 10.80 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 430477

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	40.0	24.8	46.1

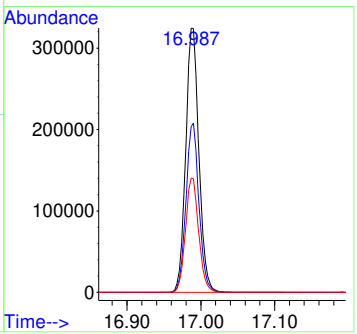


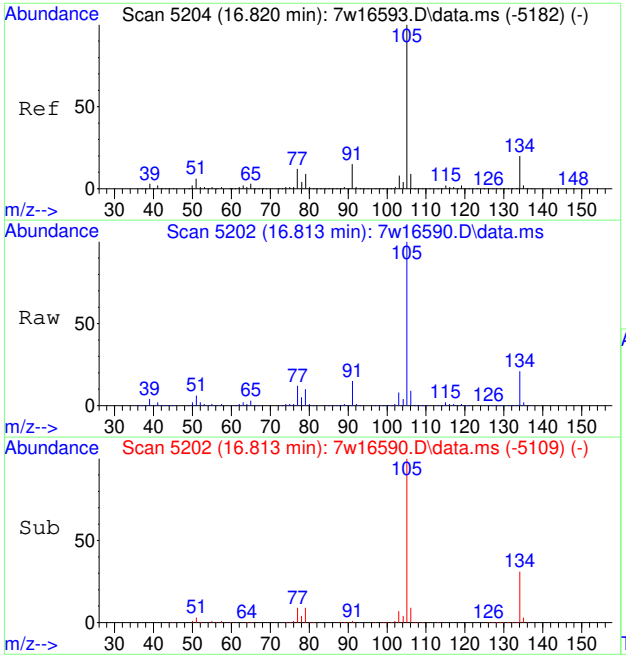


#100
O-DICHLOROBENZENE
Concen: 10.70 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 400770

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.4	26.9	50.1

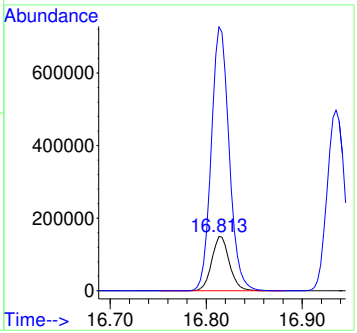


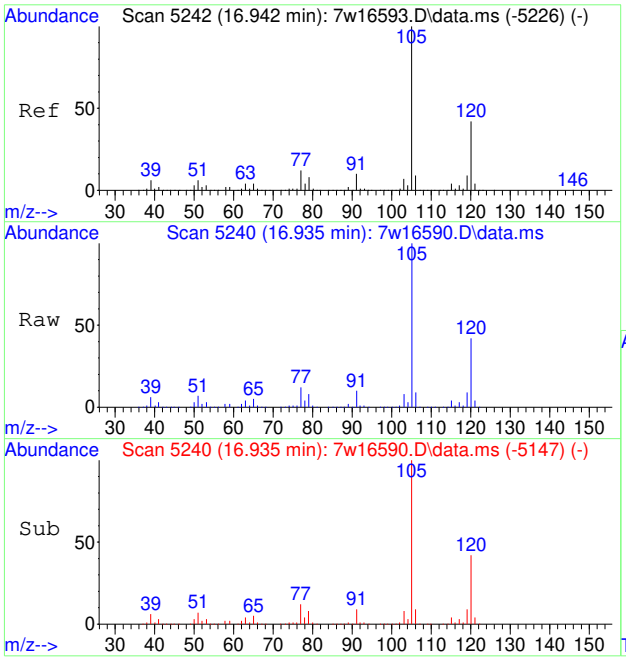


#101
SEC-BUTYLBENZENE
Concen: 11.00 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 191611

Ion	Ratio	Lower	Upper
134	100		
105	492.5	314.4	584.0

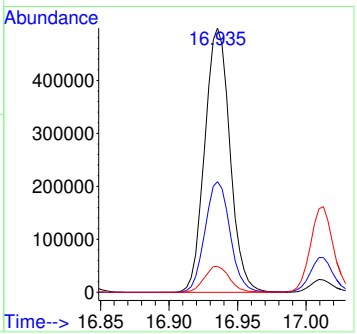


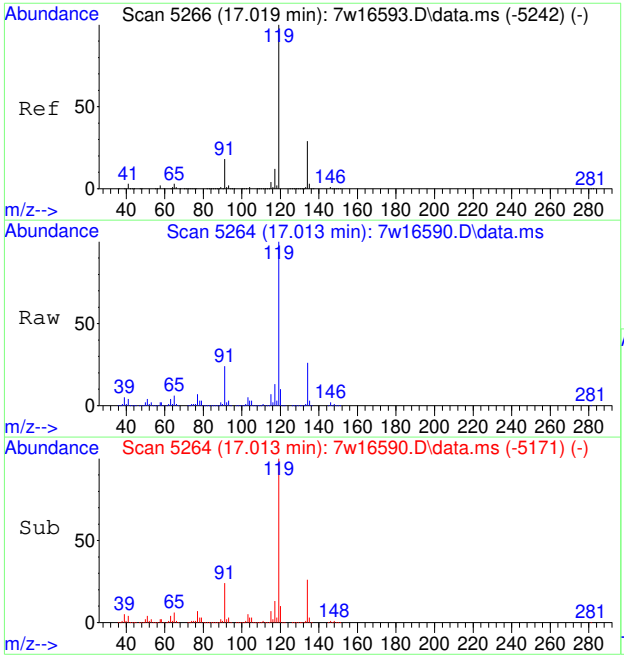


#102
1,2,3-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 636319

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

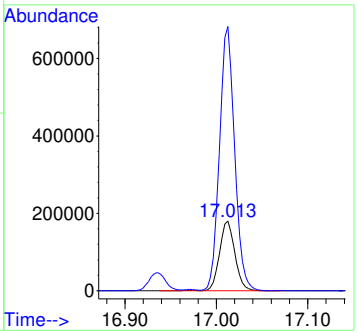


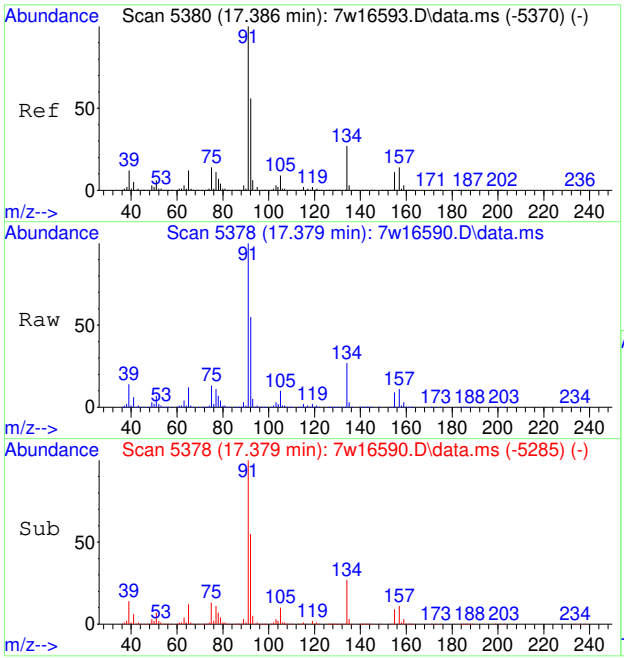


#103
P-ISOPROPYLTOLUENE
Concen: 10.80 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 211524

Ion	Ratio	Lower	Upper
134	100		
119	373.4	253.7	471.3

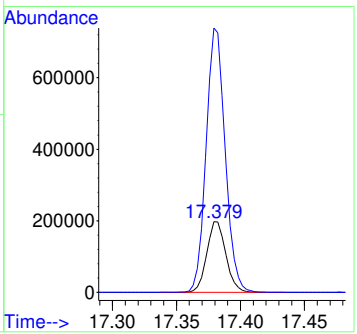


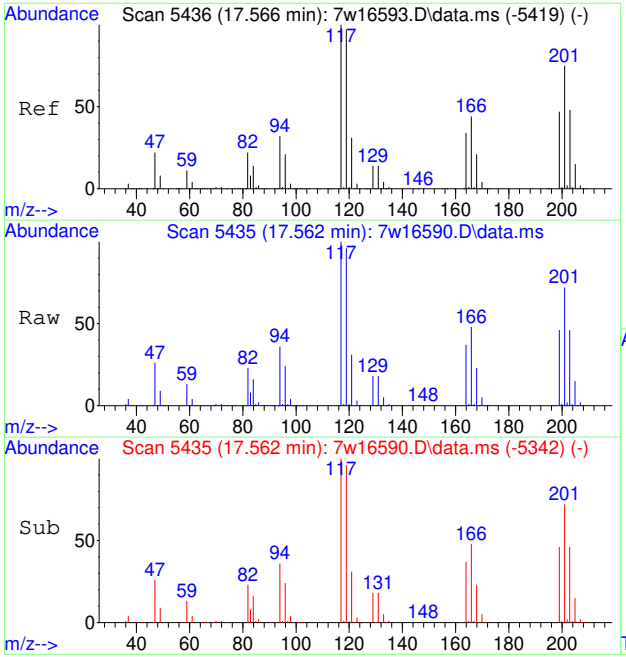


#104
N-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 205284

Ion	Ratio	Lower	Upper
134	100		
91	372.9	231.1	429.1

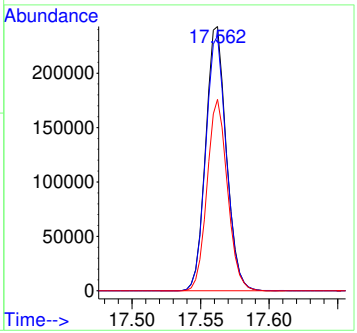


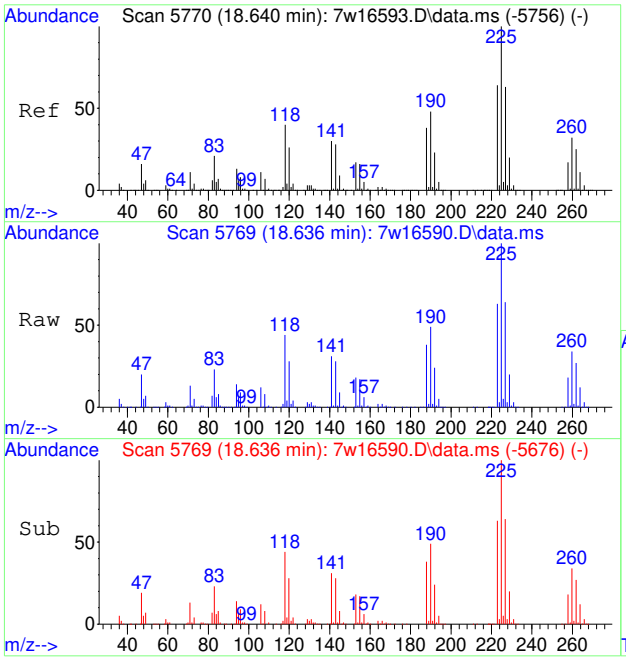


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 254836

Ion	Ratio	Lower	Upper
117	100		
119	96.7	68.3	126.9
201	71.2	45.9	85.3

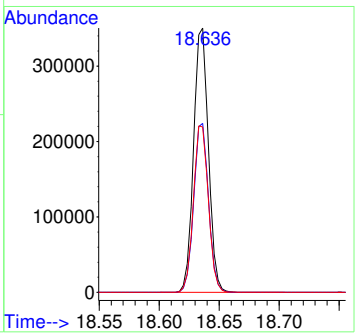


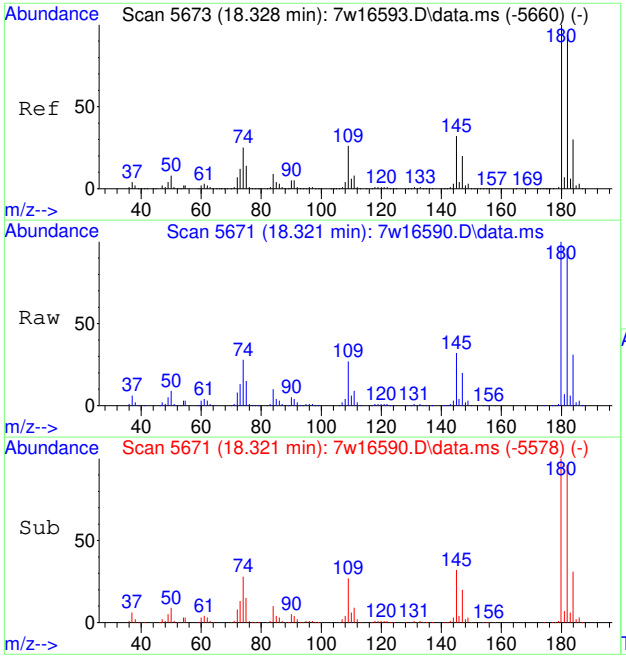


#106
HEXACHLOROBUTADIENE
Concen: 11.70 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:225 Resp: 300683

Ion	Ratio	Lower	Upper
225	100		
227	63.7	44.4	82.5
223	63.7	44.7	83.1

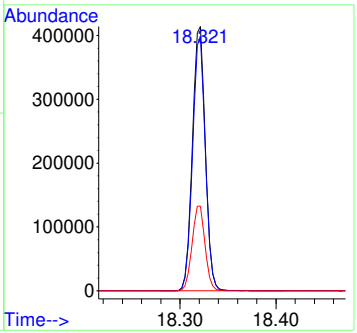


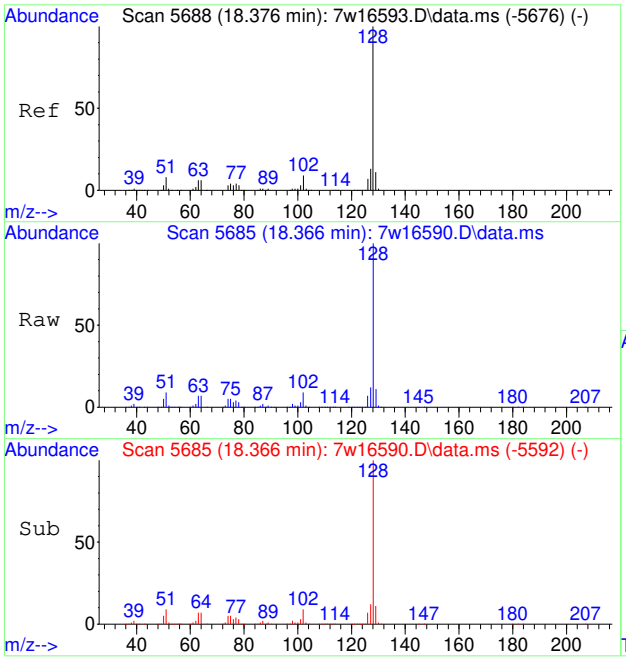


#107
1,2,4-TRICHLOROBENZENE
Concen: 11.70 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:180 Resp: 387303

Ion	Ratio	Lower	Upper
180	100		
182	95.1	66.8	124.0
145	32.2	23.1	42.9

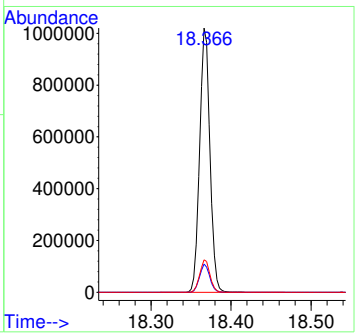


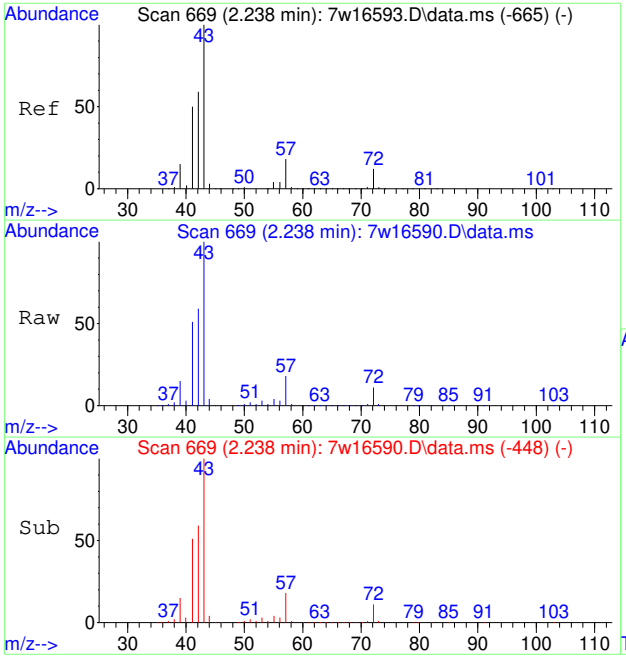


#108
NAPHTHALENE
Concen: 11.80 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:128 Resp: 909462

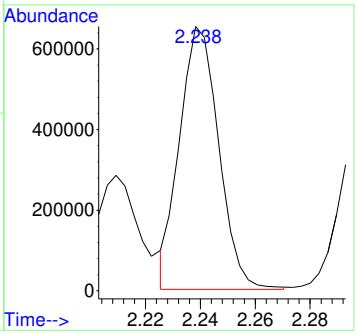
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.3	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 10.59 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:TIC Resp: 646941



7.7.18

7

Manual Integration Approval Summary

Sample Number: V7W577-ICC577
Lab FileID: 7W16590.D
Injection Time: 08/07/25 13:07

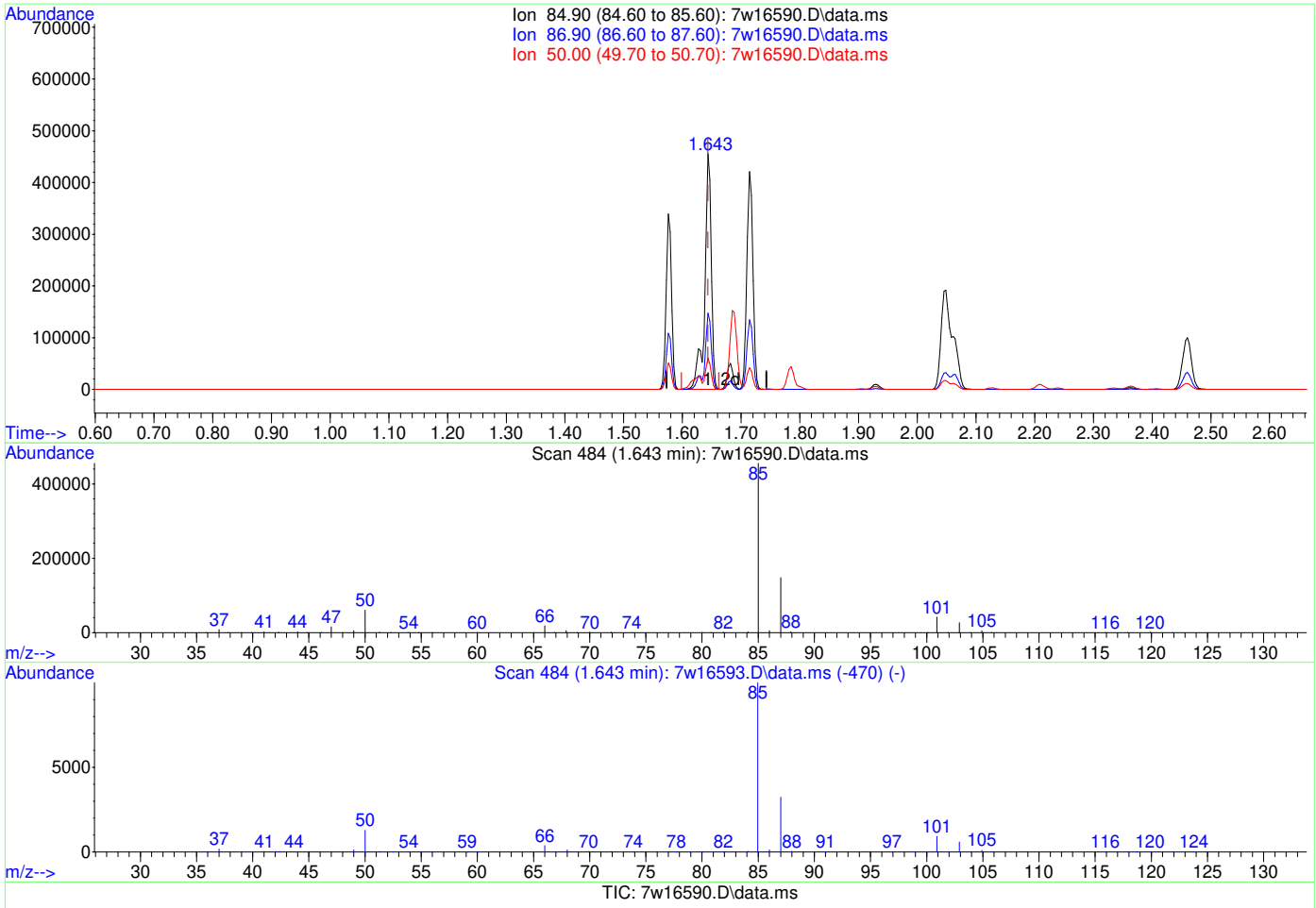
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 10.60PPBV

response 350784

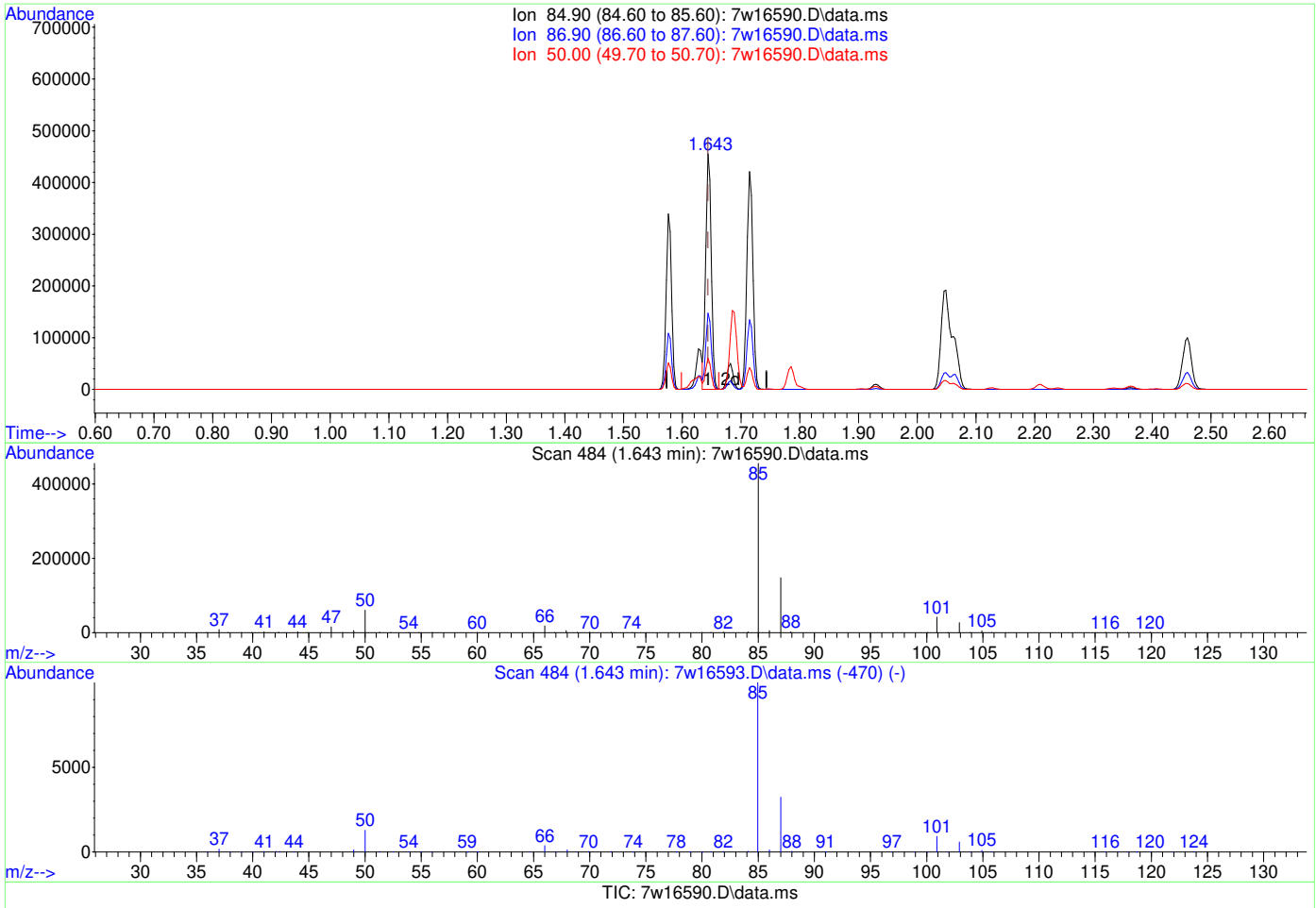
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.84
50.00	17.30	19.33
0.00	0.00	0.00

7W16590.D edits: DICHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 8.88PPBV m

response 294067

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.18
50.00	17.30	23.06#
0.00	0.00	0.00

7W16590.D edits: DICHLORODIFLUOROMETHANE

7W16591.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109480	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	545187	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	503767	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109480	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	408790	9.97	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	249521	17.67	PPBV		90
3) FREON 152A	1.608	65	134083	19.87	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	61032	19.91	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	298756	19.87	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.647	85	530689m	16.21	PPBV		
7) PROPYLENE	1.627	41	171796	19.80	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	483910	19.78	PPBV		99
9) FREON 114	1.717	85	552603	19.29	PPBV		83
10) CHLOROMETHANE	1.688	52	73238	19.85	PPBV		96
11) VINYL CHLORIDE	1.750	62	258206	18.84	PPBV		99
12) 1,3-BUTADIENE	1.785	54	200205	18.85	PPBV	#	74
13) N-BUTANE	1.801	43	354476	19.48	PPBV		97
14) BROMOMETHANE	1.859	94	197085	18.92	PPBV		97
15) CHLOROETHANE	1.907	64	136427	18.81	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	473770	18.30	PPBV		96
17) ACETONITRILE	1.997	41	201387	17.69	PPBV		96
18) ACROLEIN	2.036	56	114846	19.37	PPBV		97
19) FREON 123	2.049	83	521378	19.72	PPBV		96
20) FREON 123A	2.065	117	305527m	19.66	PPBV		
21) TRICHLOROFLUOROMETHANE	2.129	101	556426	18.45	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	474515	18.98	PPBV		89
23) ACETONE	2.071	58	129681	18.71	PPBV		64
24) PENTANE	2.242	42	249050	19.26	PPBV		87
25) IODOMETHANE	2.303	142	541893	19.59	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.328	96	219577	19.61	PPBV	#	60
27) CARBON DISULFIDE	2.463	76	631688	19.43	PPBV		92
28) ETHANOL	1.933	45	114301	17.84	PPBV		97
29) BROMOETHENE	2.007	106	202351	18.58	PPBV		95
30) ACRYLONITRILE	2.213	52	187985	19.57	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	196005	18.45	PPBV	#	78
32) 3-CHLOROPROPENE	2.409	76	114925	18.95	PPBV		73
33) FREON 113	2.460	151	337394	19.33	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.688	96	231431	18.75	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.338	59	526848	17.25	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	677061	19.29	PPBV		97
37) TETRAHYDROFURAN	3.467	72	104573	17.84	PPBV		81
38) HEXANE	3.241	57	453219	19.51	PPBV		80
39) VINYL ACETATE	2.827	86	66441	19.48	PPBV		74
40) 1,1-DICHLOROETHANE	2.759	63	455143	18.70	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	120276	19.21	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.116	96	246893	19.20	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	130636	19.57	PPBV		91
44) ETHYL ACETATE	3.248	61	93045	19.72	PPBV		55
45) METHYL ACRYLATE	3.235	55	561273	19.52	PPBV	#	98
46) CHLOROFORM	3.264	83	484502	19.05	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	525364	19.82	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.823	97	508992	19.19	PPBV		95
49) CARBON TETRACHLORIDE	4.238	117	536446	18.95	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	375248	18.79	PPBV		97
51)	BENZENE	4.129	78	718150	19.31	PPBV		91
53)	CYCLOHEXANE	4.331	84	325475	19.45	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.585	71	167011	19.60	PPBV		67
55)	TRICHLOROETHENE	5.013	95	327435	18.36	PPBV		86
56)	1,2-DICHLOROPROPANE	4.785	63	302257	19.23	PPBV		92
57)	DIBROMOMETHANE	4.746	174	277930	19.08	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	703238	19.73	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.962	83	549357	18.61	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	1404688	18.90	PPBV	#	96
61)	1,4-DIOXANE	5.023	88	159487	18.11	PPBV	#	80
62)	HEPTANE	5.418	43	476905	19.19	PPBV		91
63)	METHYL METHACRYLATE	5.319	69	276982	19.41	PPBV		90
64)	METHYL ISOBUTYL KETONE	6.039	58	278396	19.00	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	474515	19.04	PPBV		96
66)	TOLUENE	7.132	91	898243	19.86	PPBV		98
67)	1,3-DICHLOROPROPANE	7.193	76	463972	19.84	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	425650	18.27	PPBV		95
69)	1,1,2-TRICHLOROETHANE	6.769	83	262141	19.57	PPBV		96
70)	2-HEXANONE	7.695	58	374273	19.43	PPBV	#	78
71)	ETHYL METHACRYLATE	7.833	69	477947	19.46	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	335304	20.14	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.663	129	551638	19.81	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	487978	20.42	PPBV		99
75)	OCTANE	8.997	43	676810	19.89	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	402558	20.28	PPBV		93
78)	CHLOROBENZENE	10.045	112	735731	20.26	PPBV		90
79)	ETHYLBENZENE	10.926	91	1222868	20.44	PPBV		98
80)	M,P-XYLENE	11.354	91	1892381	39.40	PPBV		98
81)	O-XYLENE	12.286	91	959093	20.37	PPBV		96
82)	STYRENE	12.071	104	744213	20.29	PPBV		94
83)	NONANE	13.405	43	723418	20.03	PPBV		83
84)	BROMOFORM	11.161	173	487585	20.35	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	696701	20.31	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.579	75	544148	20.17	PPBV		100
88)	ISOPROPYLBENZENE	13.794	120	360209	19.98	PPBV		88
89)	BROMOBENZENE	13.659	77	684288	20.06	PPBV		76
90)	2-CHLOROTOLUENE	14.788	126	331208	19.42	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	382520	19.58	PPBV		97
92)	4-ETHYLTOLUENE	15.575	105	1412222	19.94	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.849	105	1177558	19.94	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.177	118	587843	19.51	PPBV		97
95)	TERT-BUTYLBENZENE	16.501	134	284215	19.96	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	1206100	20.20	PPBV		94
97)	BENZYL CHLORIDE	16.601	91	1043995	20.31	PPBV		92
98)	M-DICHLOROBENZENE	16.572	146	777553	19.50	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	788870	20.08	PPBV		97
100)	O-DICHLOROBENZENE	16.990	146	731265	19.81	PPBV		97
101)	SEC-BUTYLBENZENE	16.817	134	351357	20.47	PPBV		84
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	1159850	19.79	PPBV		96
103)	P-ISOPROPYLTOLUENE	17.013	134	385467	19.97	PPBV		94
104)	N-BUTYLBENZENE	17.382	134	378596	20.40	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	477608	20.73	PPBV		96
106)	HEXACHLOROBUTADIENE	18.636	225	568005	22.43	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.321	180	737709	22.61	PPBV		100
108)	NAPHTHALENE	18.369	128	1742340	22.94	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	1188767	19.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
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Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
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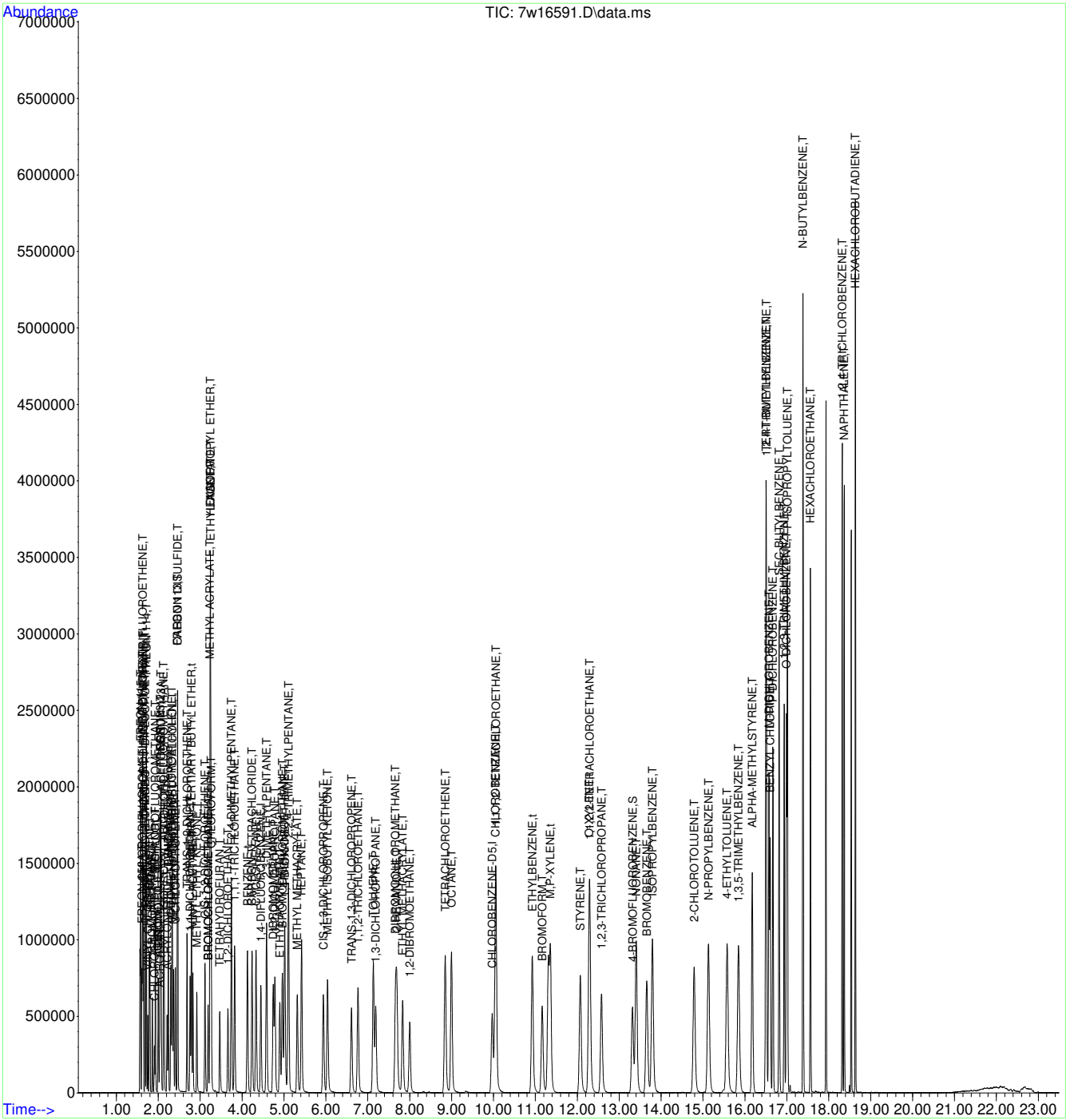
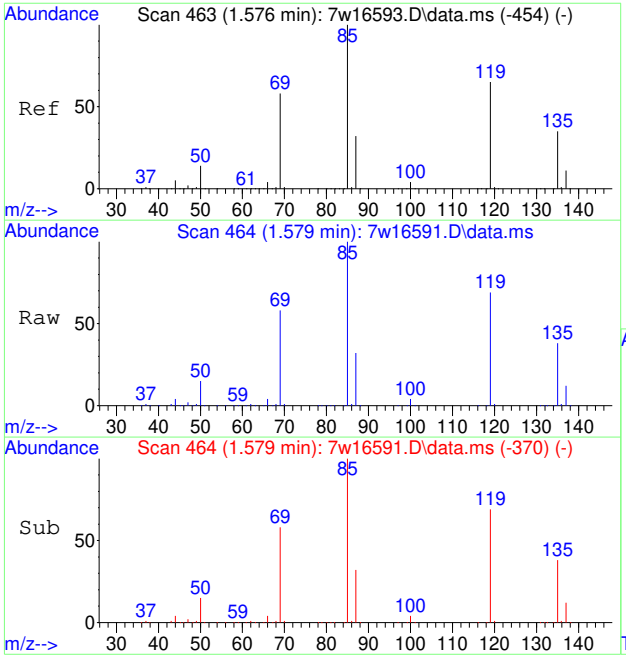
Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

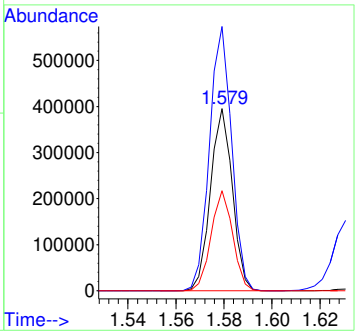


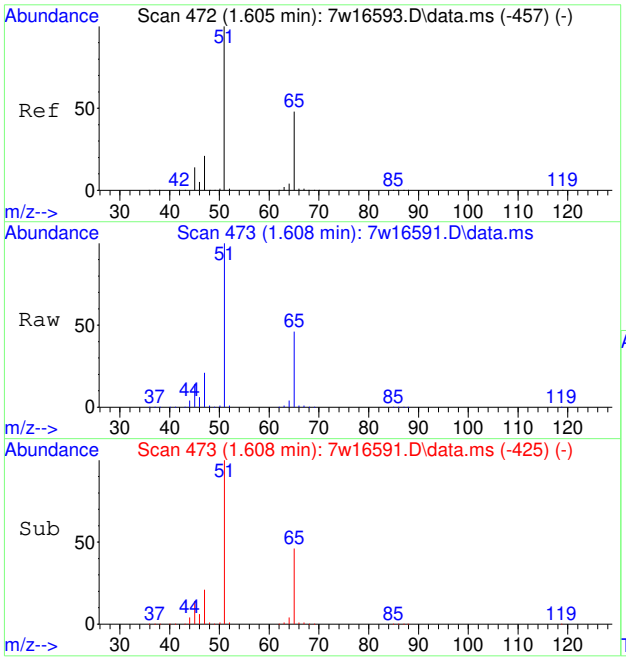


#2
FREON 115
Concen: 17.67 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:119 Resp: 249521

Ion	Ratio	Lower	Upper
119	100		
85	146.7	90.9	168.7
135	54.3	38.2	71.0

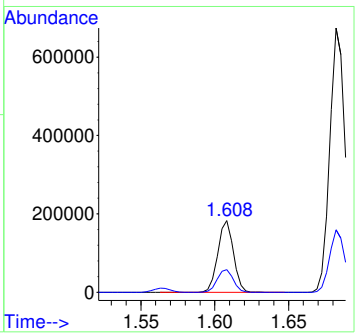


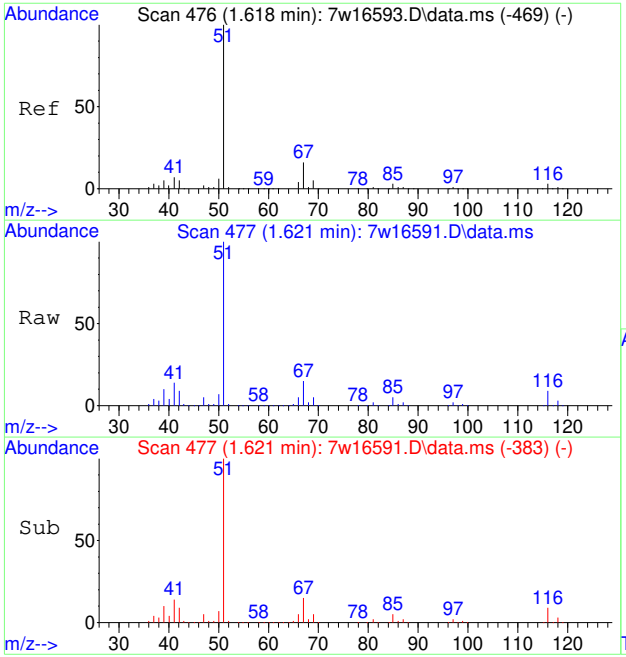


#3
FREON 152A
Concen: 19.87 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 134083

Ion	Ratio	Lower	Upper
65	100		
45	32.5	20.6	38.4

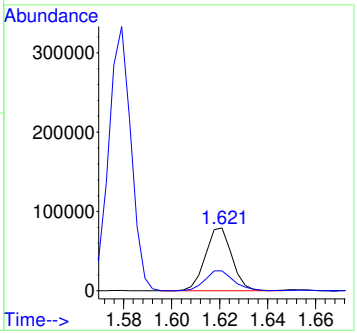


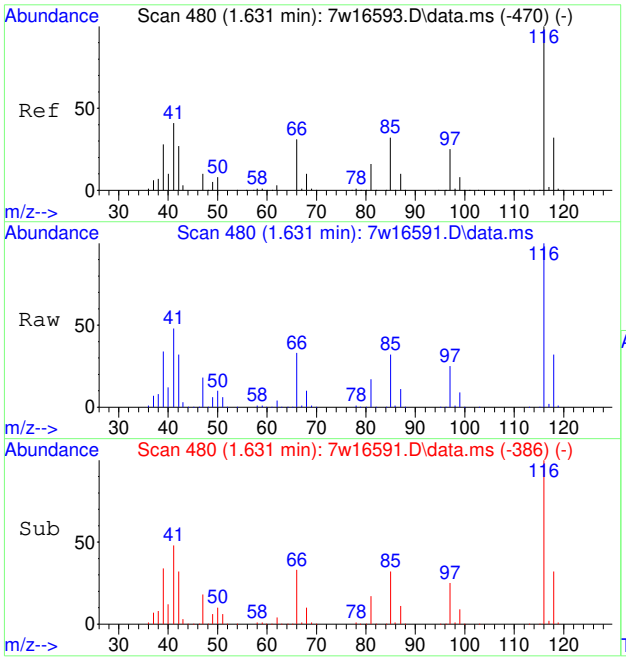


#4
CHLORODIFLUOROMETHANE
Concen: 19.91 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 61032

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

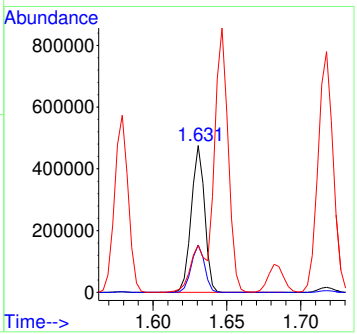


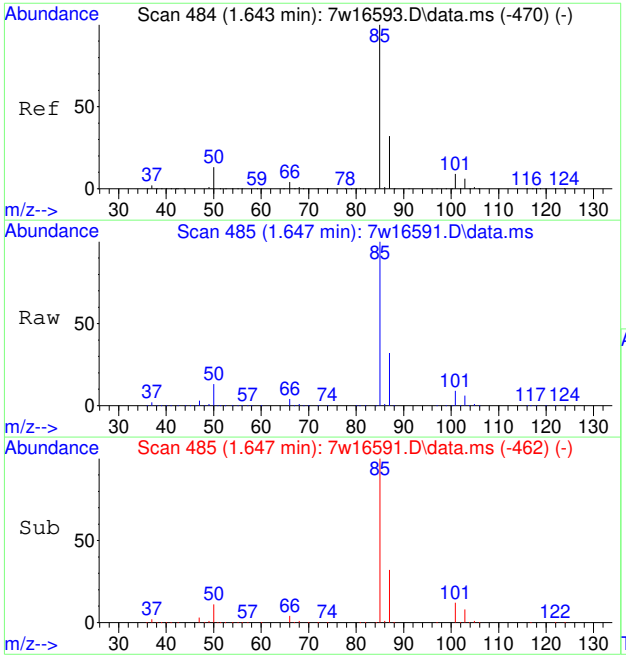


#5
CHLOROTRIFLUOROETHENE
Concen: 19.87 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:116 Resp: 298756

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	216.0	194.7	361.7

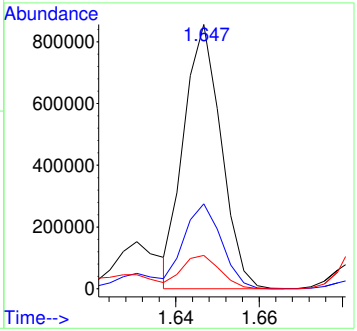


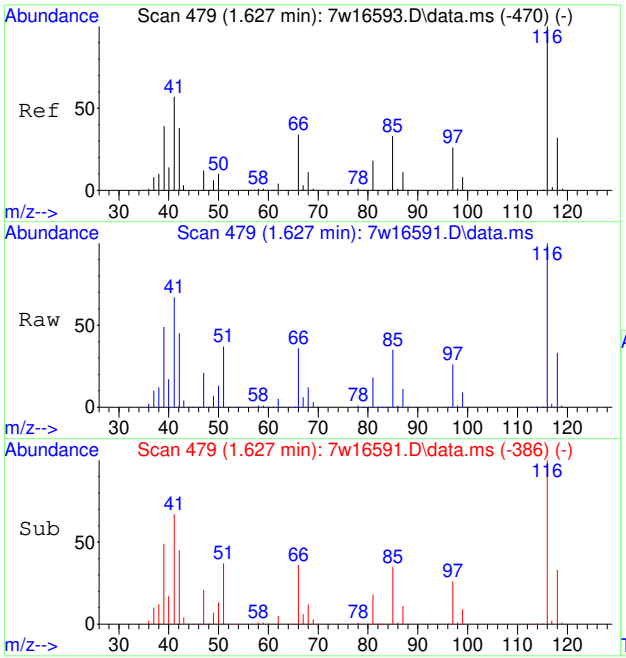


#6
DICHLORODIFLUOROMETHANE
Concen: 16.21 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 530689

Ion	Ratio	Lower	Upper
85	100		
87	39.5	23.1	42.9
50	23.2	12.1	22.5#

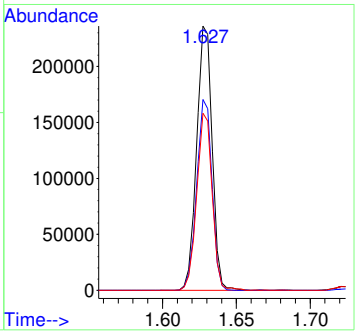


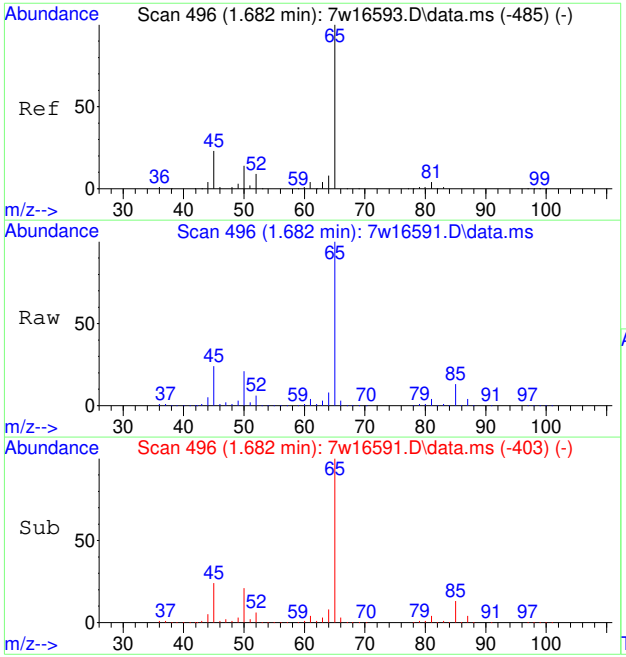


#7
PROPYLENE
Concen: 19.80 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 171796

Ion	Ratio	Lower	Upper
41	100		
39	71.5	51.0	94.8
42	66.7	46.6	86.6

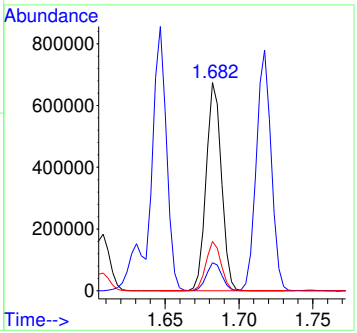


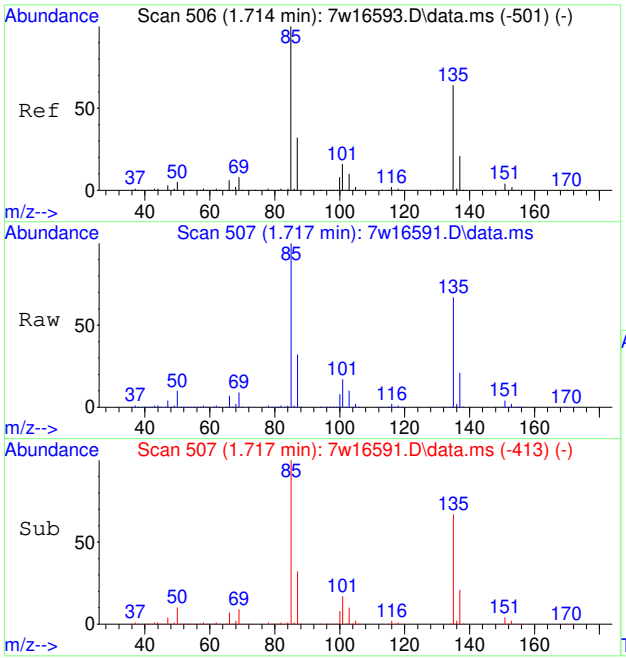


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 19.78 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 483910

Ion	Ratio	Lower	Upper
65	100		
85	13.6	9.7	17.9
45	23.5	17.0	31.6

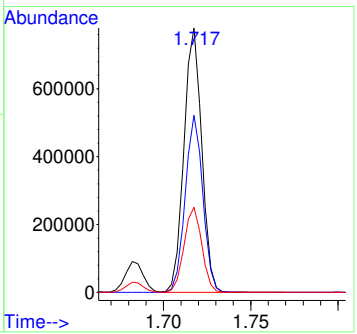


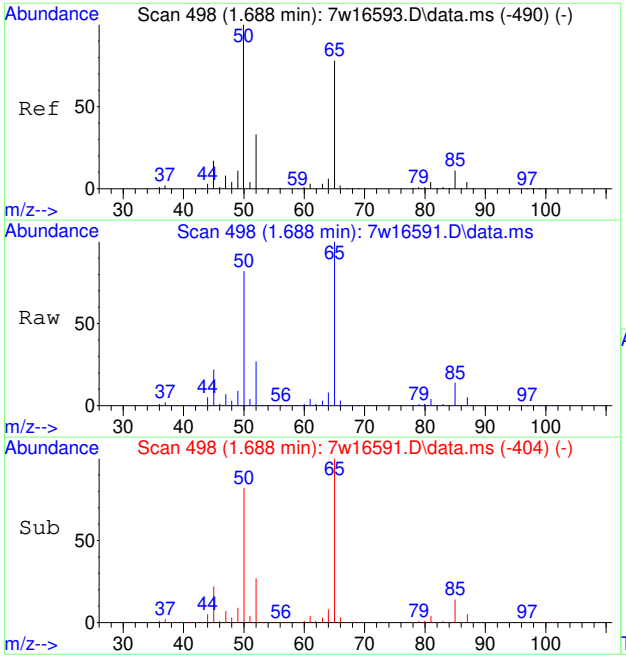


#9
FREON 114
Concen: 19.29 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 552603

Ion	Ratio	Lower	Upper
85	100		
135	66.3	61.3	113.9
87	32.2	23.2	43.0

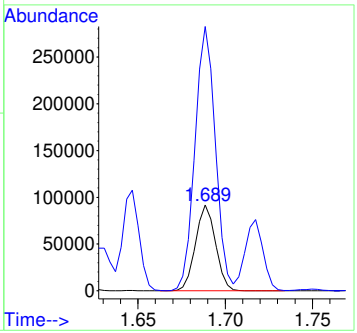


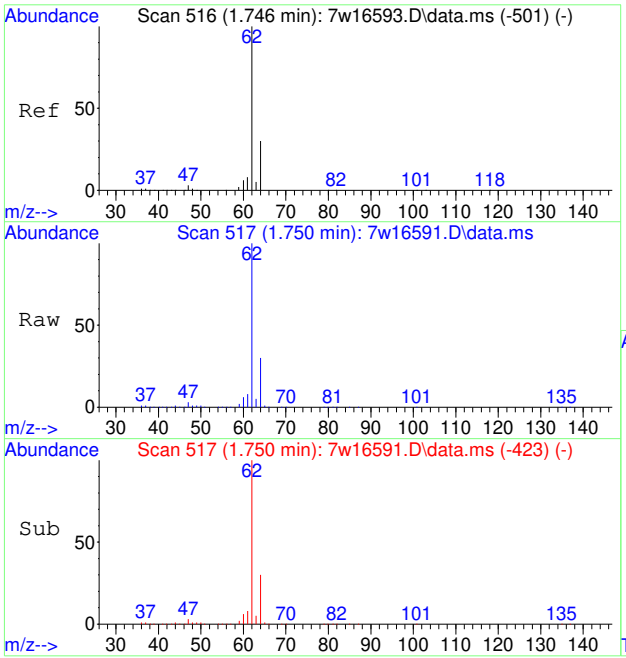


#10
CHLOROMETHANE
Concen: 19.85 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 73238

Ion	Ratio	Lower	Upper
52	100		
50	317.8	227.6	422.6

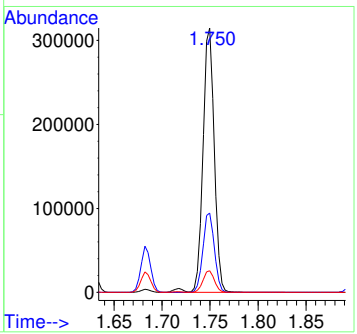


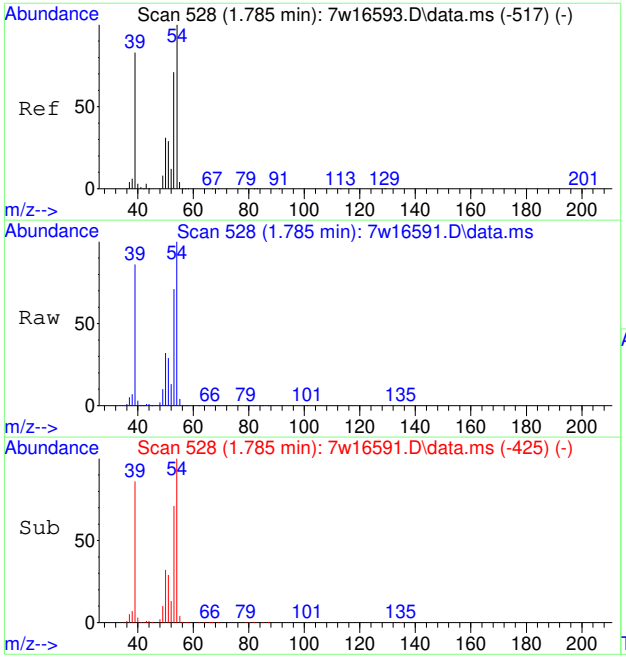


#11
VINYL CHLORIDE
Concen: 18.84 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 258206

Ion	Ratio	Lower	Upper
62	100		
64	30.4	21.6	40.2
61	8.5	5.7	10.7

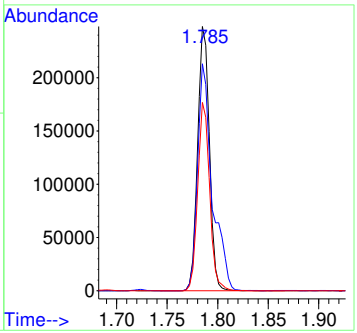


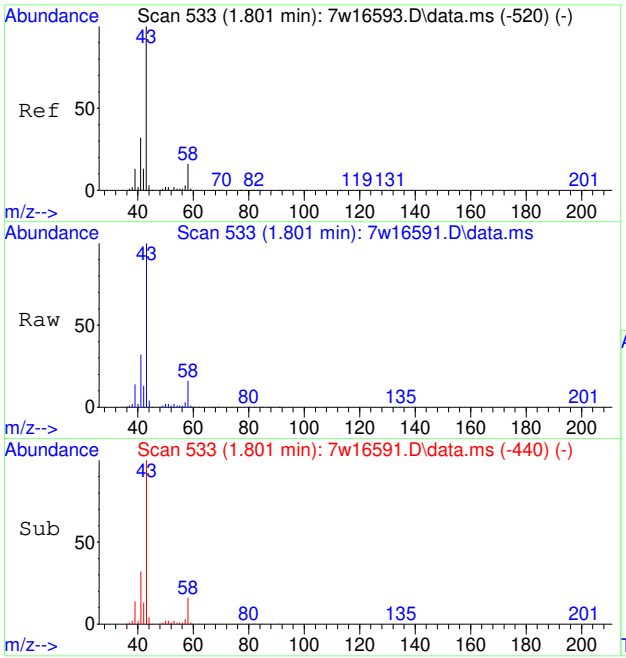


#12
1,3-BUTADIENE
Concen: 18.85 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 54 Resp: 200205

Ion	Ratio	Lower	Upper
54	100		
39	106.9	125.6	185.6#
53	72.3	40.7	100.7

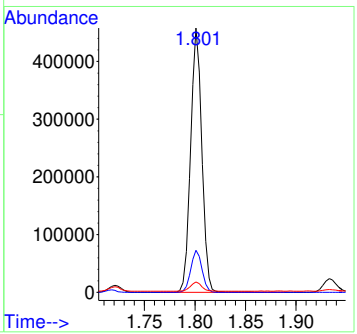


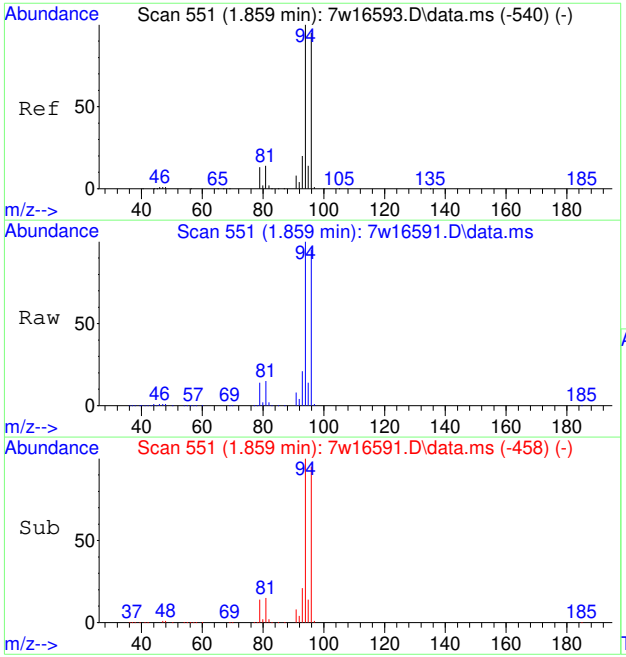


#13
N-BUTANE
Concen: 19.48 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 354476

Ion	Ratio	Lower	Upper
43	100		
58	16.0	10.4	19.4
44	3.6	3.0	5.6

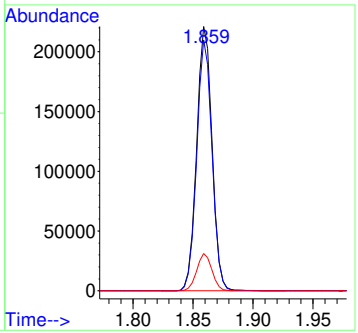


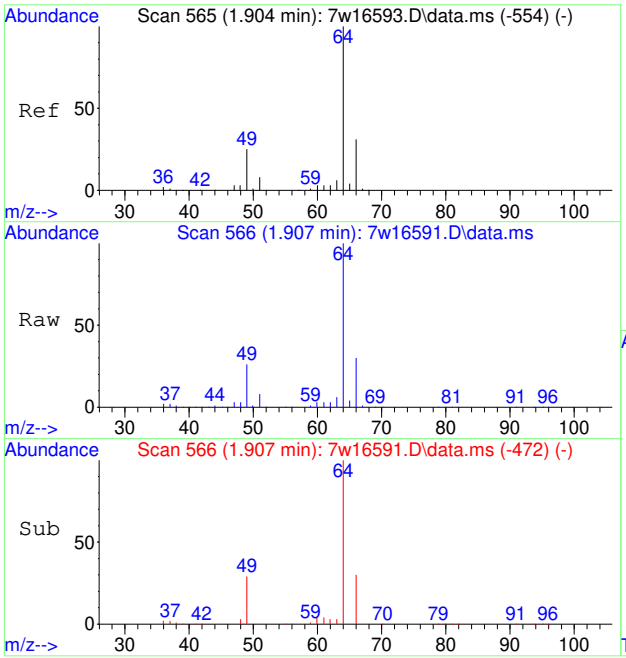


#14
BROMOMETHANE
Concen: 18.92 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 94 Resp: 197085

Ion	Ratio	Lower	Upper
94	100		
96	94.2	63.6	118.0
95	13.9	10.0	18.6

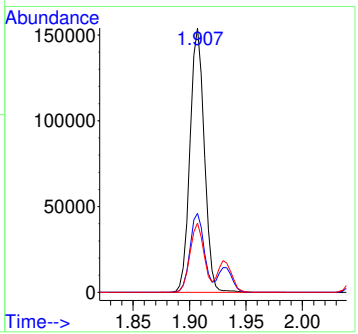


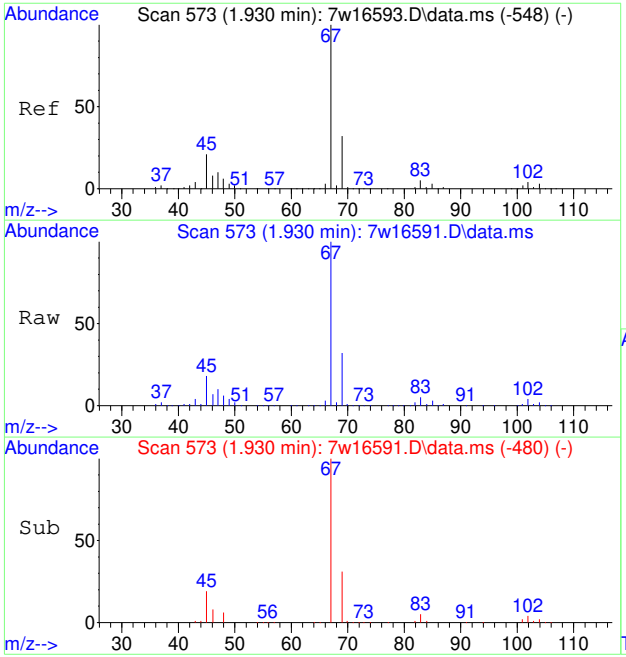


#15
CHLOROETHANE
Concen: 18.81 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 64 Resp: 136427

Ion	Ratio	Lower	Upper
64	100		
66	39.2	23.0	42.6
49	26.0	21.5	39.9

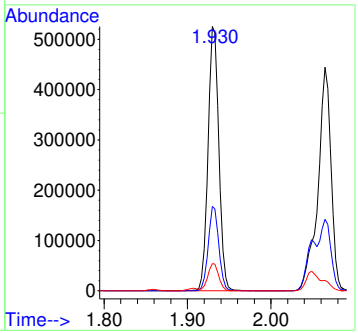


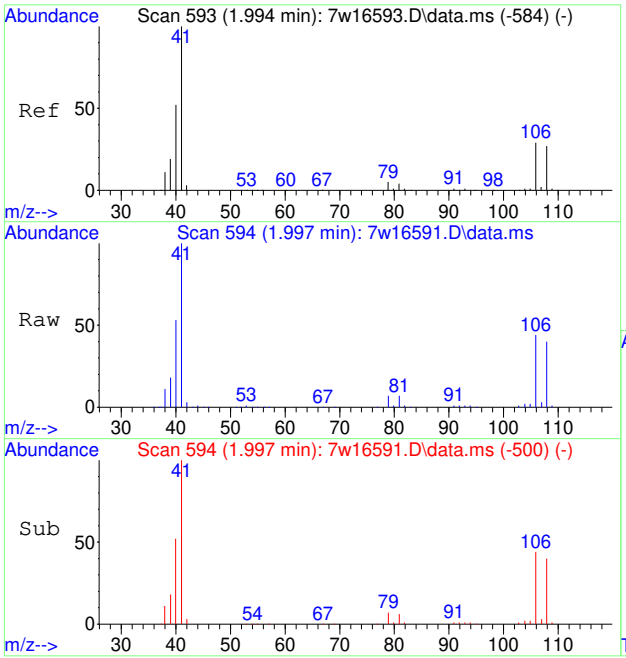


#16
DICHLOROFLUOROMETHANE
Concen: 18.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 473770

Ion	Ratio	Lower	Upper
67	100		
69	31.3	23.2	43.0
47	11.3	9.6	17.8

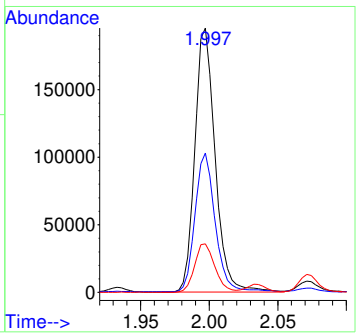


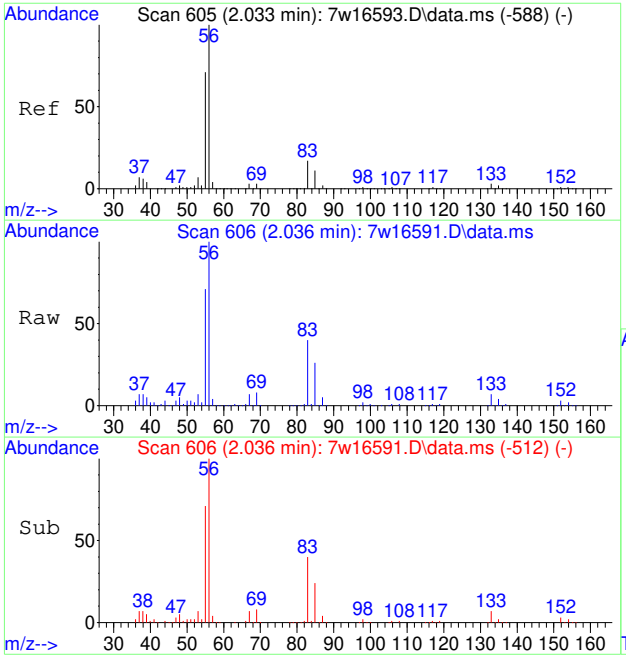


#17
ACETONITRILE
Concen: 17.69 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 201387

Ion	Ratio	Lower	Upper
41	100		
40	52.5	38.4	71.4
39	18.4	14.5	26.9

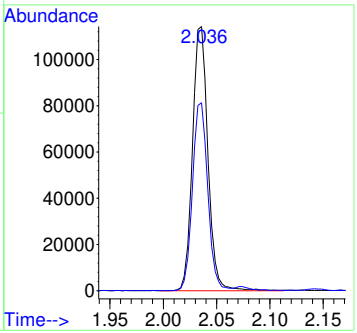


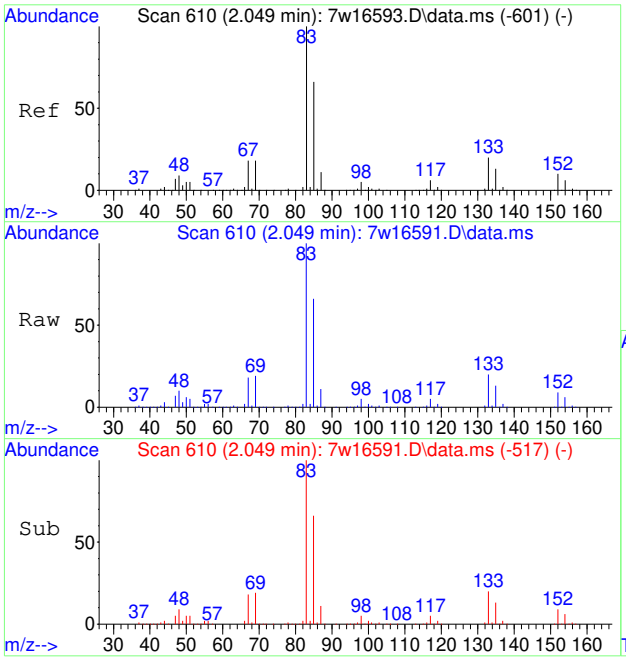


#18
ACROLEIN
Concen: 19.37 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 56 Resp: 114846

Ion	Ratio	Lower	Upper
56	100		
55	70.4	51.2	95.2

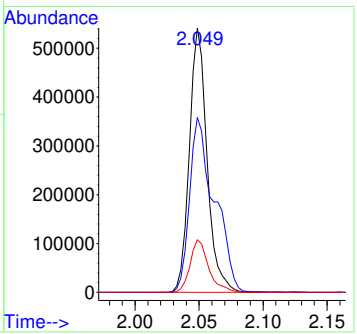


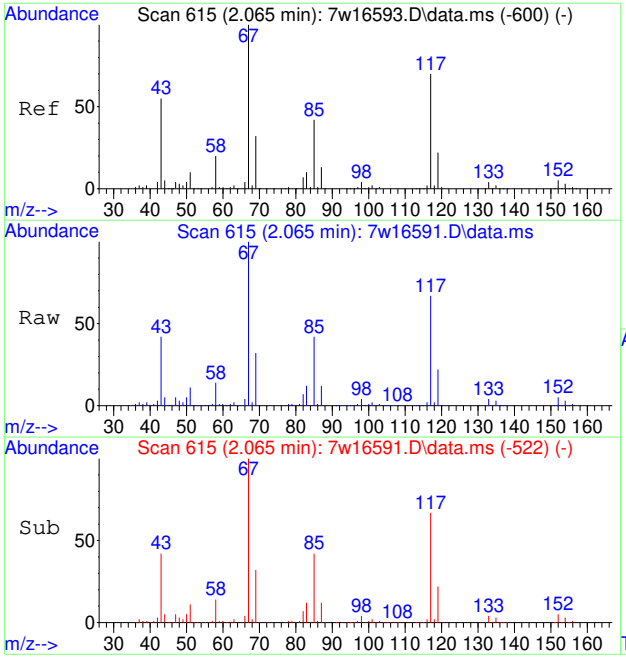


#19
FREON 123
Concen: 19.72 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 521378

Ion	Ratio	Lower	Upper
83	100		
85	92.8	65.7	121.9
133	21.0	19.9	36.9

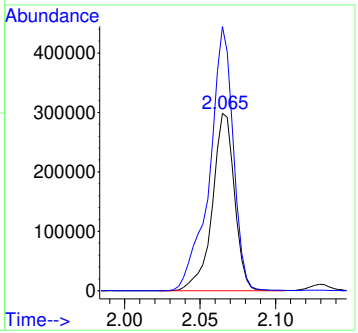


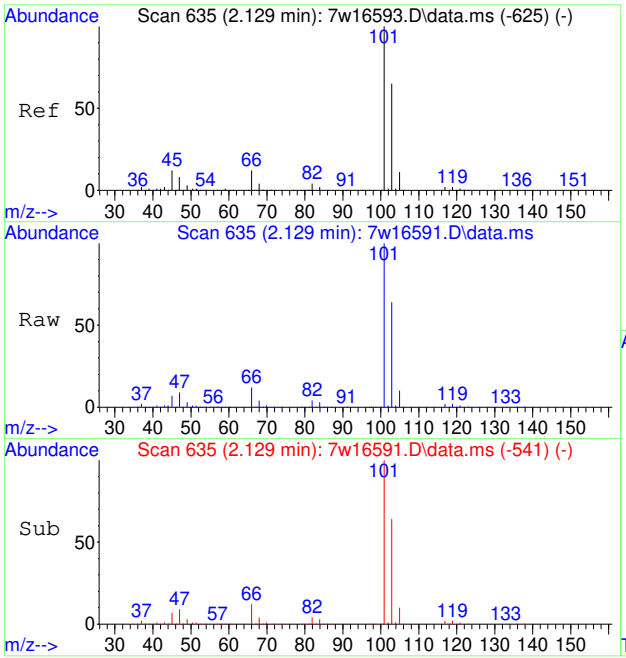


#20
FREON 123A
Concen: 19.66 PPBV m
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 305527

Ion	Ratio	Lower	Upper
117	100		
67	0.0	78.8	146.4#

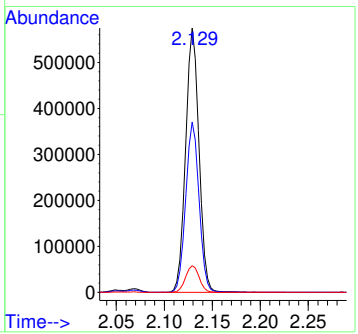


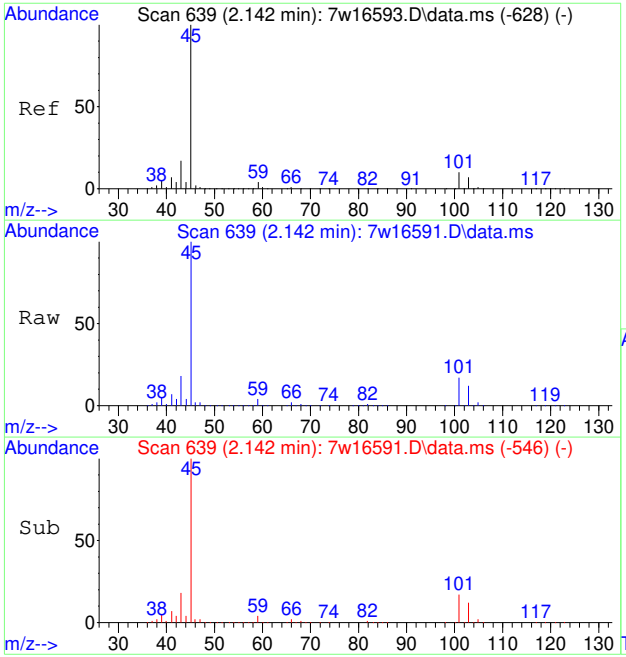


#21
TRICHLOROFLUOROMETHANE
Concen: 18.45 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:101 Resp: 556426

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.3	82.3
105	10.4	7.3	13.7

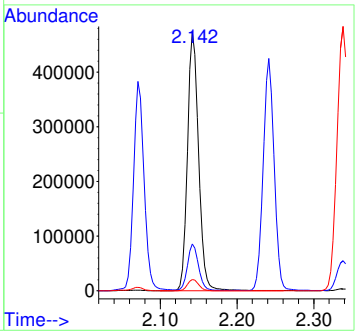


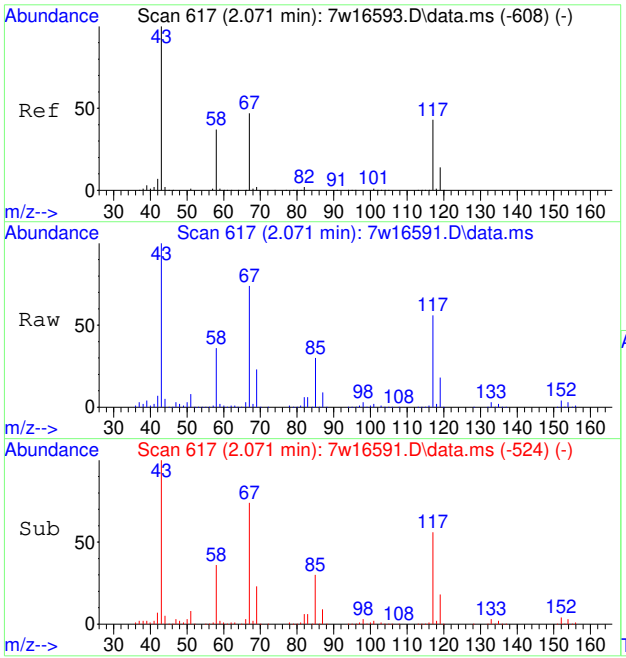


#22
ISOPROPYL ALCOHOL
Concen: 18.98 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 474515

Ion	Ratio	Lower	Upper
45	100		
43	18.1	17.1	31.9
59	4.5	3.1	5.8

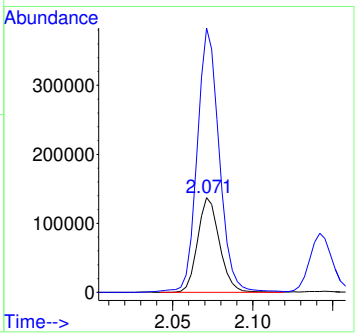


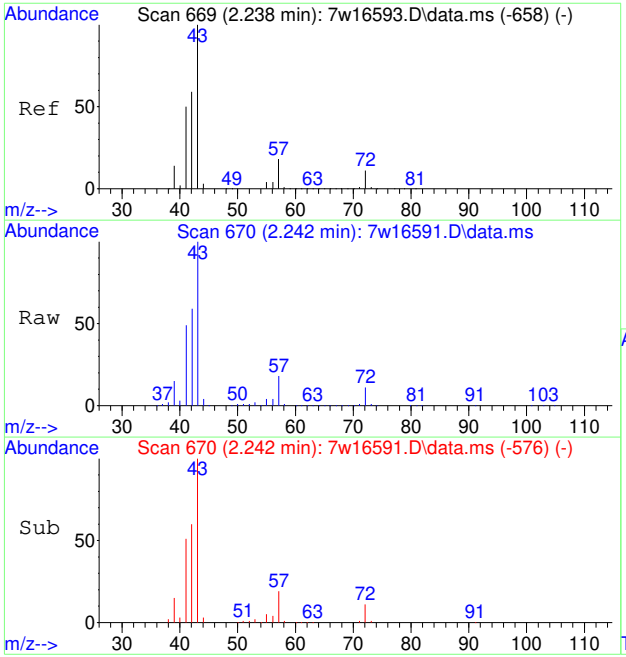


#23
ACETONE
Concen: 18.71 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 129681

Ion	Ratio	Lower	Upper
58	100		
43	282.9	254.0	471.6

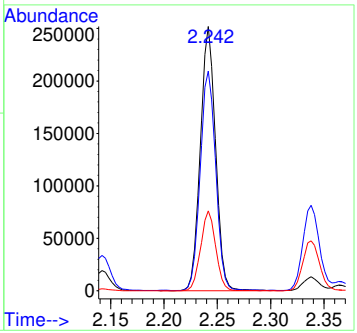


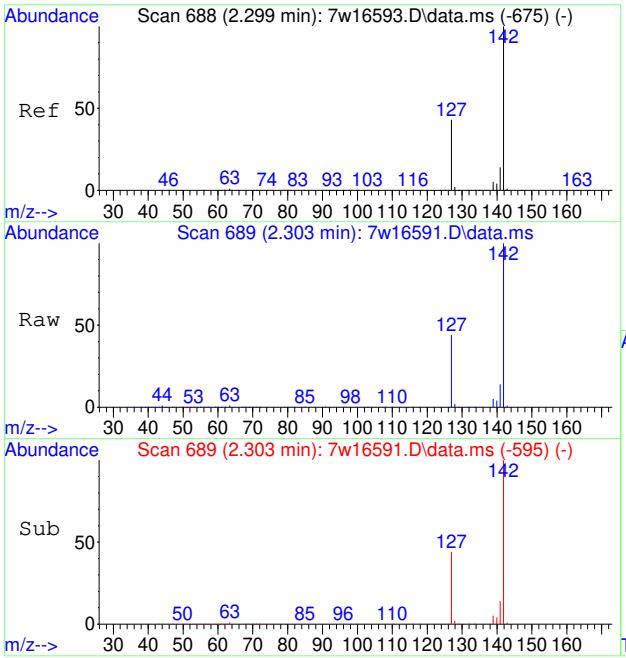


#24
PENTANE
Concen: 19.26 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 42 Resp: 249050

Ion	Ratio	Lower	Upper
42	100		
41	84.6	69.2	128.6
57	30.3	18.6	34.6

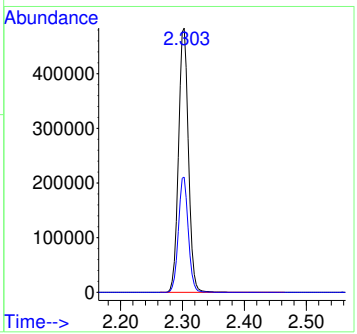


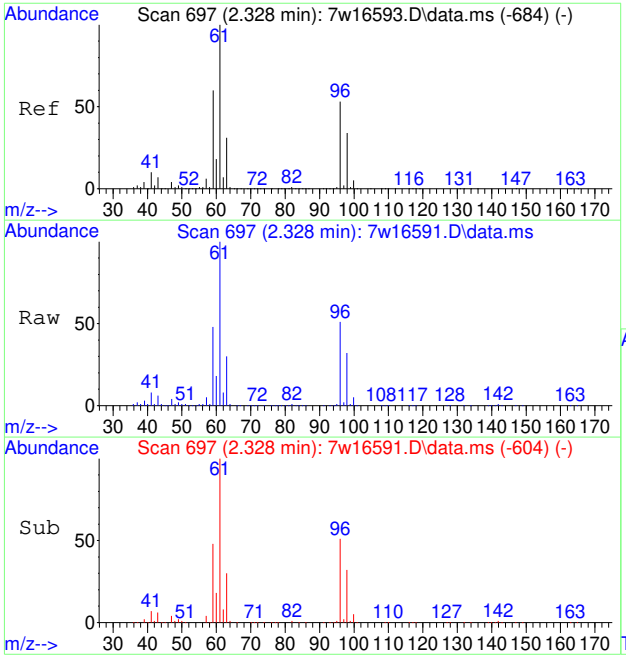


#25
IODOMETHANE
Concen: 19.59 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:142 Resp: 541893

Ion	Ratio	Lower	Upper
142	100		
127	43.5	32.1	59.7

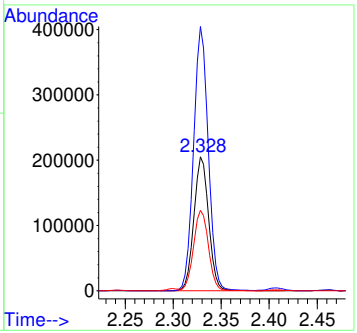


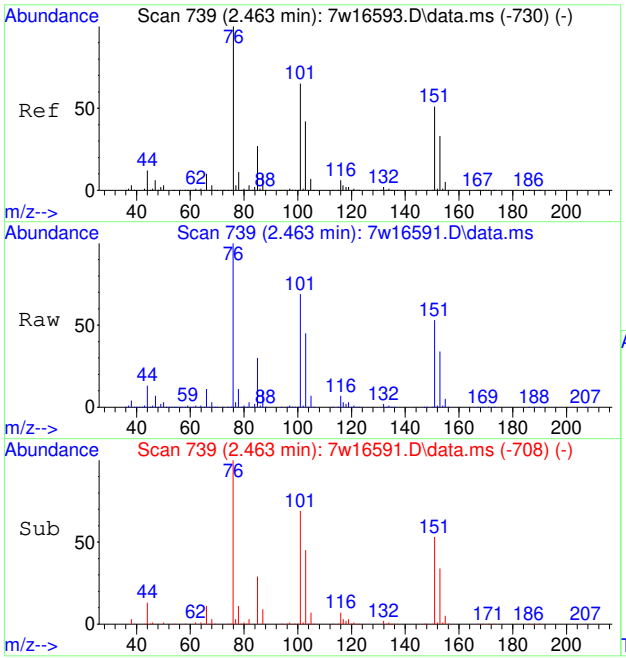


#26
1,1-DICHLOROETHYLENE
Concen: 19.61 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 219577

Ion	Ratio	Lower	Upper
96	100		
61	196.0	98.3	182.5#
63	62.1	33.2	61.7#

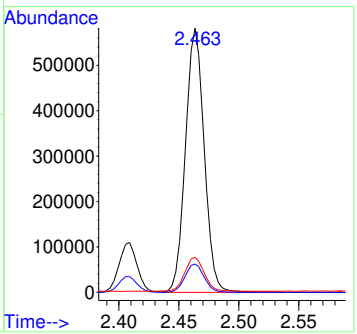


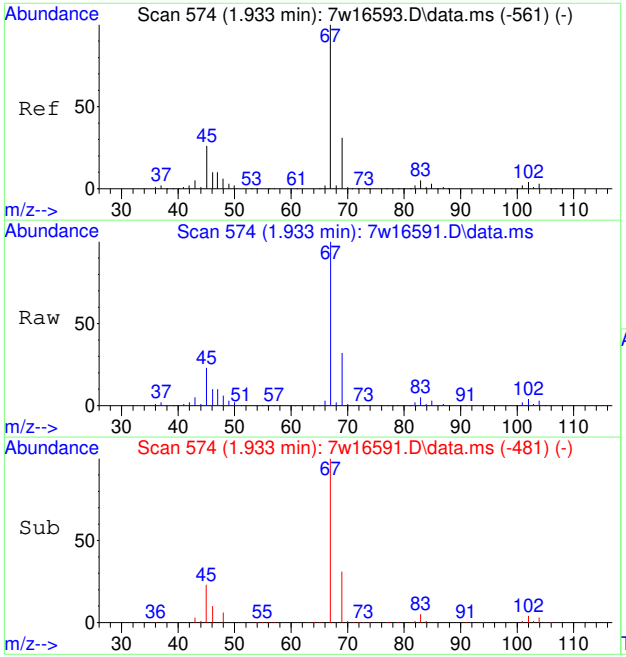


#27
CARBON DISULFIDE
Concen: 19.43 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 631688

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	13.5	13.0	24.1

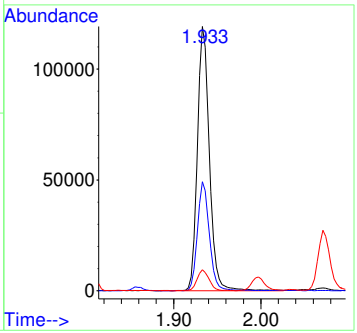


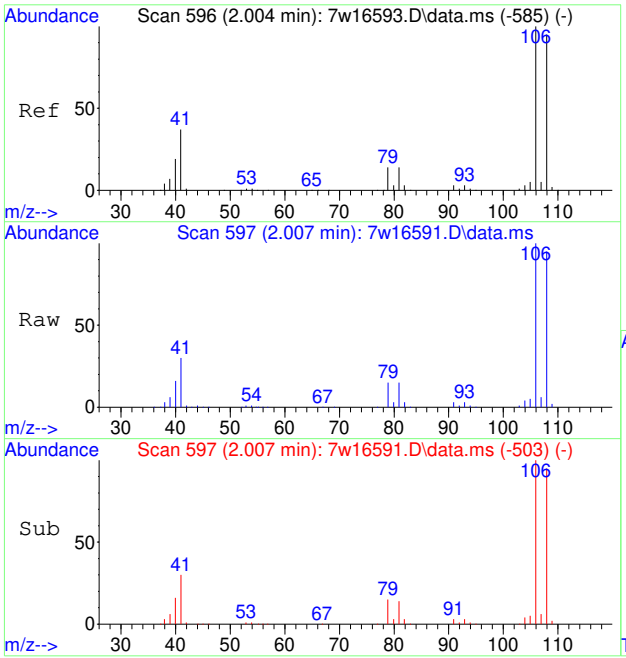


#28
ETHANOL
Concen: 17.84 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 114301

Ion	Ratio	Lower	Upper
45	100		
46	41.1	29.7	55.1
42	7.9	7.3	13.5

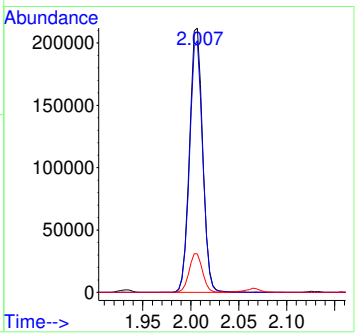


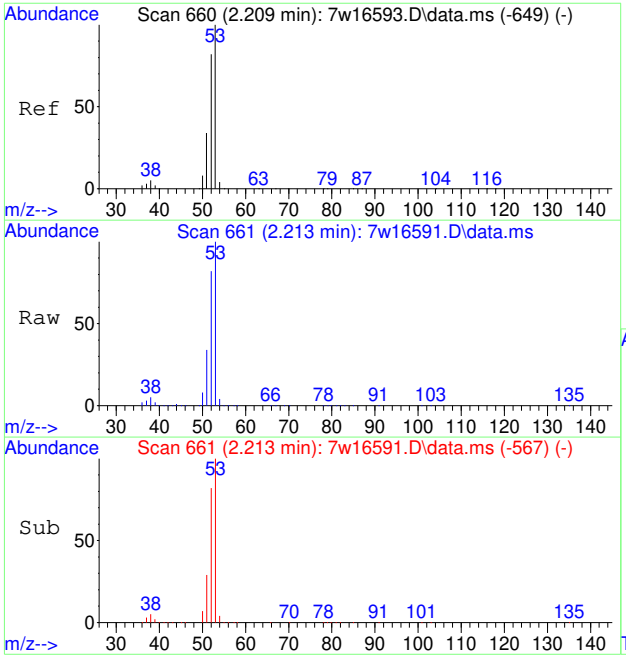


#29
BROMOETHENE
Concen: 18.58 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:106 Resp: 202351

Ion	Ratio	Lower	Upper
106	100		
108	94.8	68.3	126.8
81	15.0	14.7	27.3

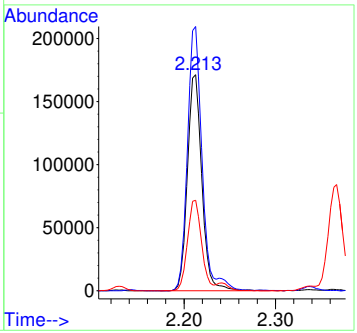


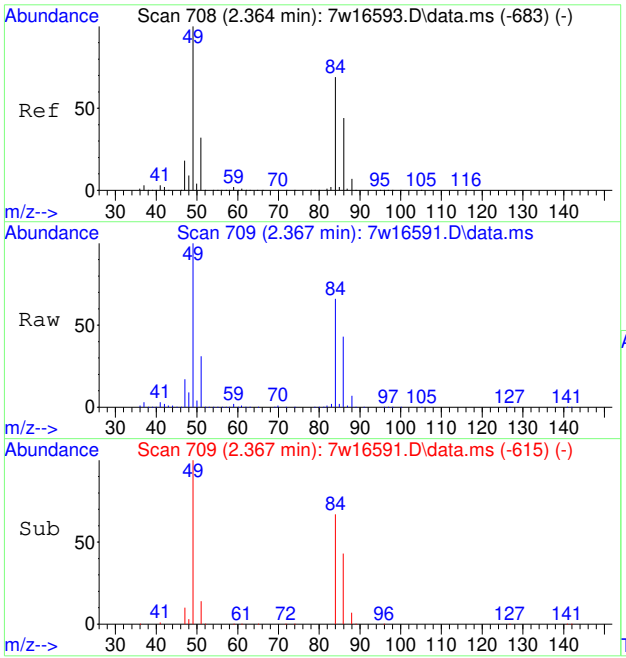


#30
ACRYLONITRILE
Concen: 19.57 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 187985

Ion	Ratio	Lower	Upper
52	100		
53	124.7	86.3	160.3
51	44.3	33.6	62.4

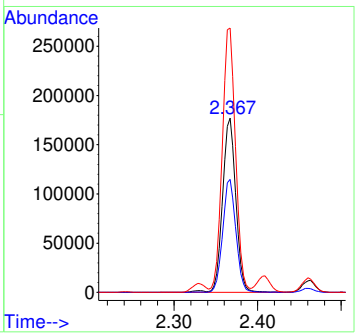


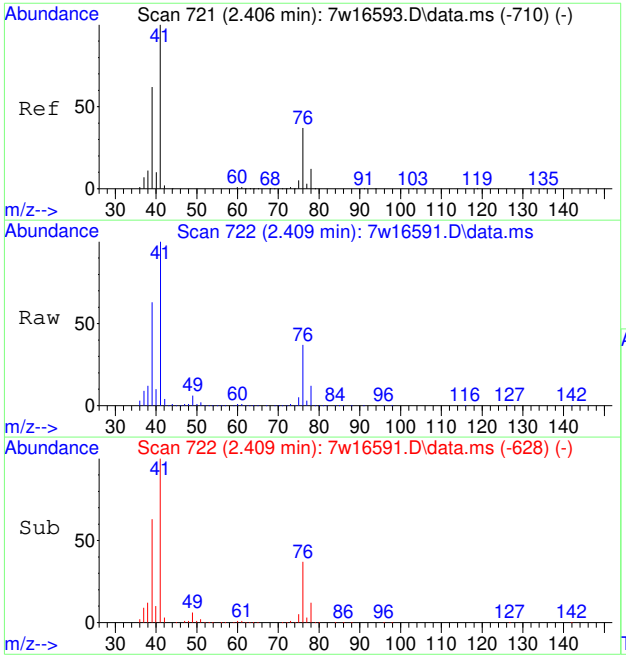


#31
METHYLENE CHLORIDE
Concen: 18.45 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 196005

Ion	Ratio	Lower	Upper
84	100		
86	64.3	44.9	83.5
49	151.2	79.7	148.1#

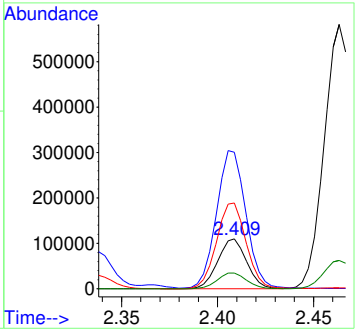


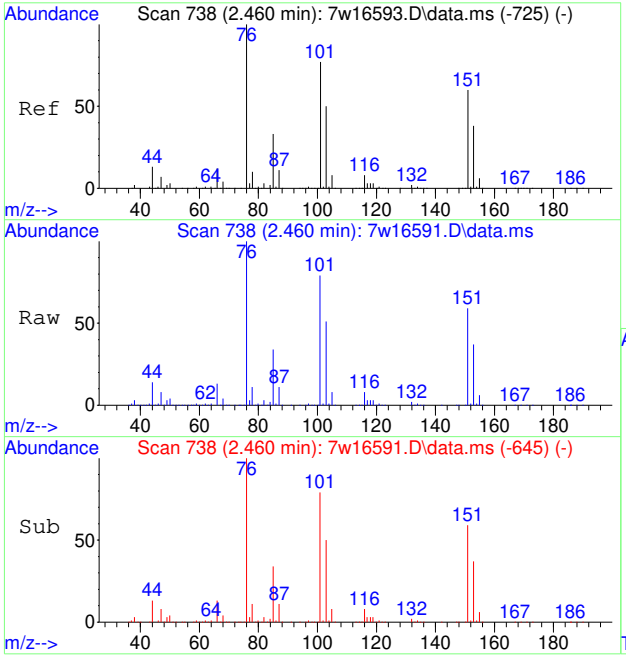


#32
3-CHLOROPROPENE
Concen: 18.95 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 114925

Ion	Ratio	Lower	Upper
76	100		
41	283.8	160.9	298.9
39	176.4	150.7	279.9
78	32.4	22.7	42.1

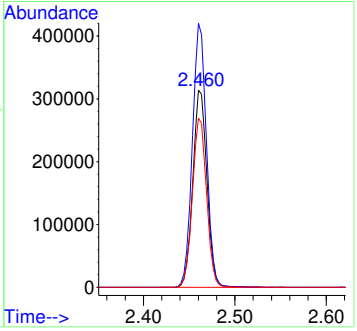


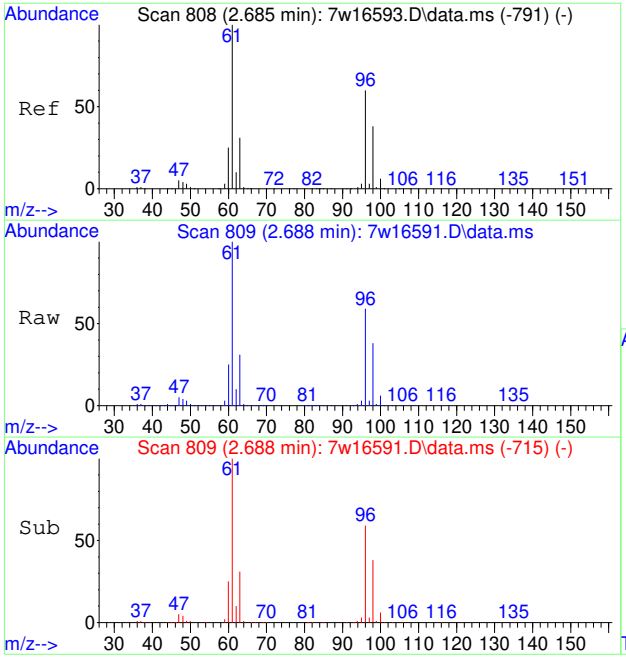


#33
FREON 113
Concen: 19.33 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:151 Resp: 337394

Ion	Ratio	Lower	Upper
151	100		
101	133.1	81.1	150.7
103	86.2	51.4	95.4

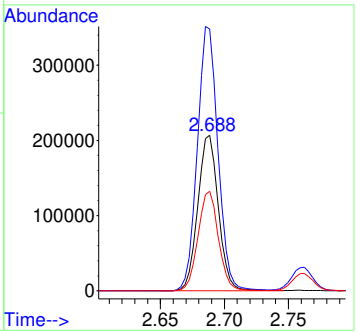


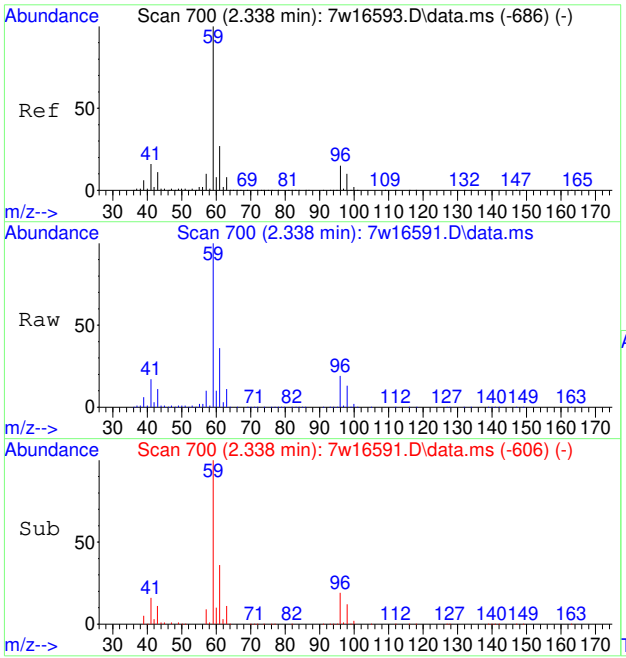


#34
TRANS-1,2-DICHLOROETHENE
Concen: 18.75 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 231431

Ion	Ratio	Lower	Upper
96	100		
61	170.1	78.5	145.9#
98	63.6	46.5	86.3

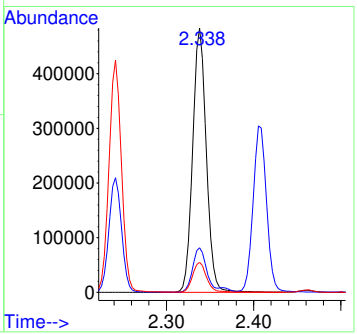


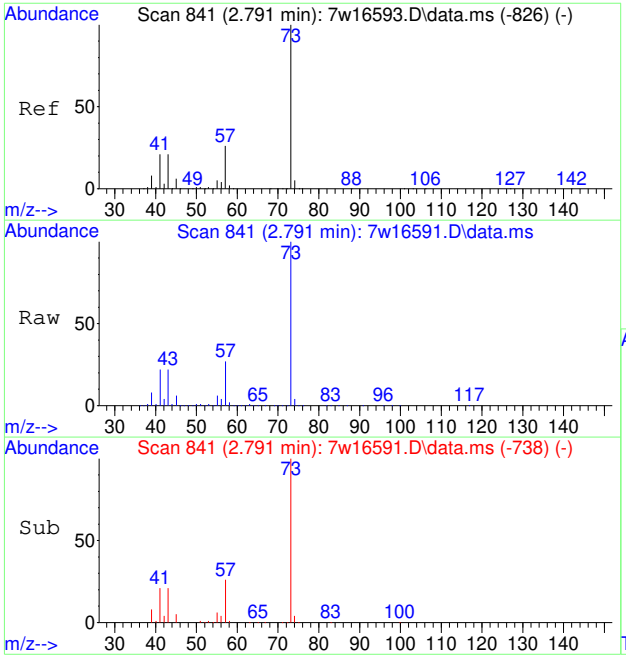


#35
TERTIARY BUTYL ALCOHOL
Concen: 17.25 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 526848

Ion	Ratio	Lower	Upper
59	100		
41	18.2	15.3	28.5
43	11.7	12.3	22.9#

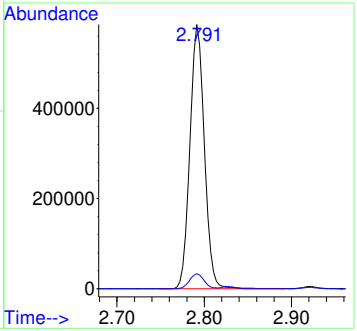


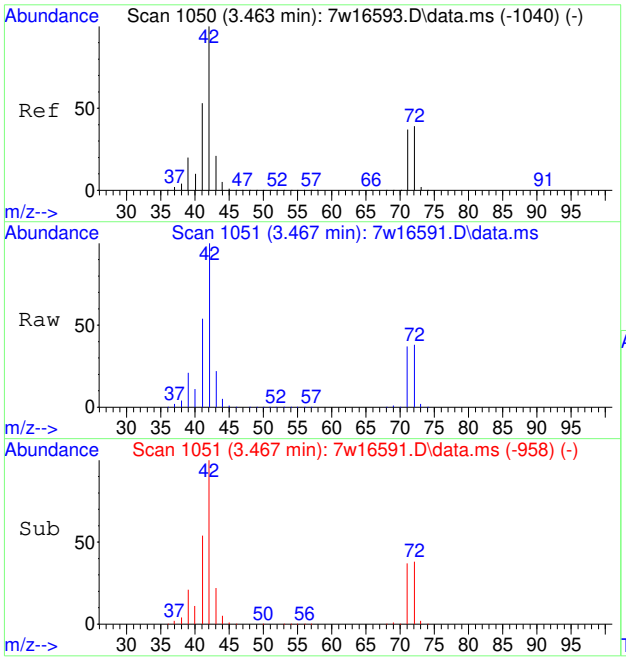


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.29 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 73 Resp: 677061

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

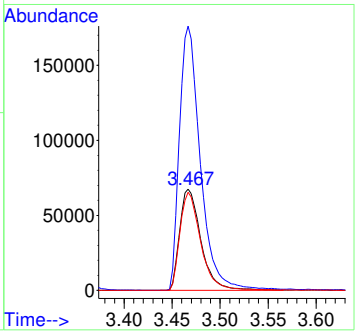


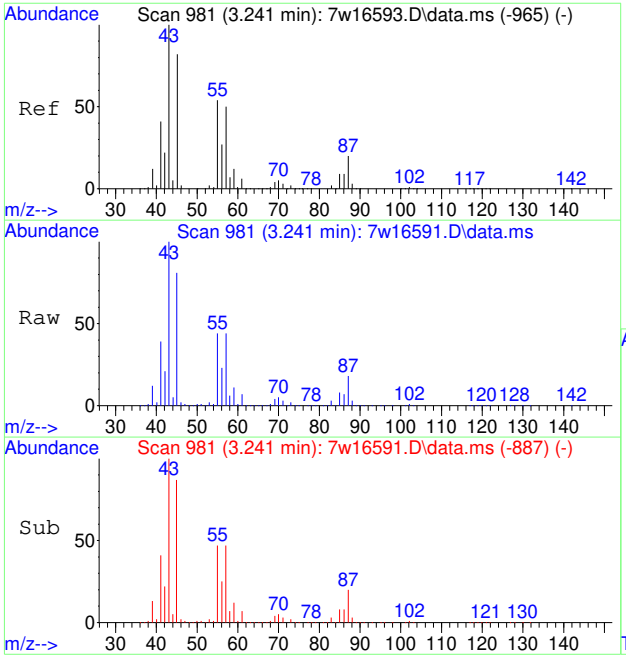


#37
TETRAHYDROFURAN
Concen: 17.84 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 104573

Ion	Ratio	Lower	Upper
72	100		
42	257.1	153.0	284.2
71	95.4	62.7	116.5

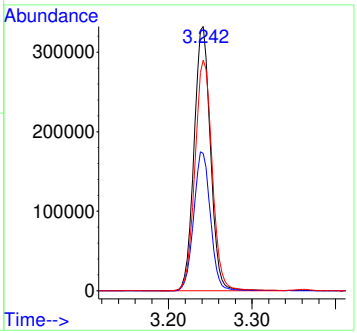


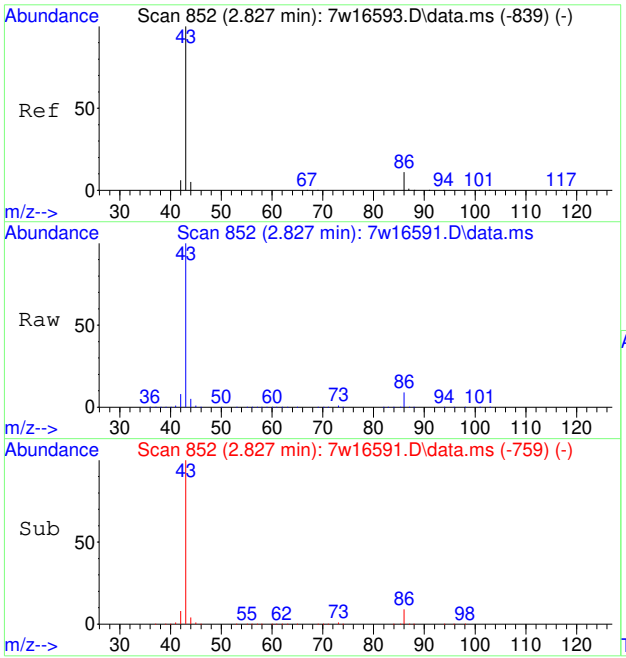


#38
HEXANE
Concen: 19.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 453219

Ion	Ratio	Lower	Upper
57	100		
56	53.6	37.3	69.3
41	92.0	86.7	161.1

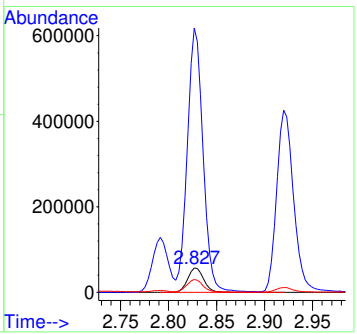


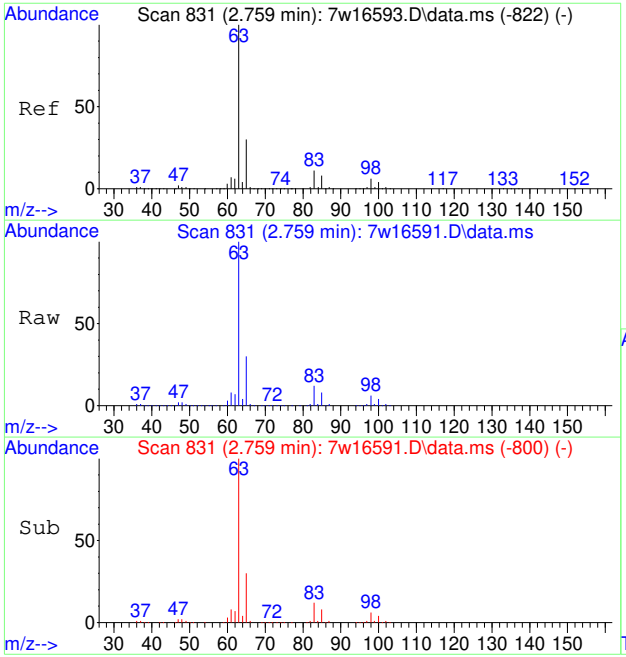


#39
VINYL ACETATE
Concen: 19.48 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 86 Resp: 66441

Ion	Ratio	Lower	Upper
86	100		
43	1069.2	667.9	1240.3
44	51.6	32.7	60.7

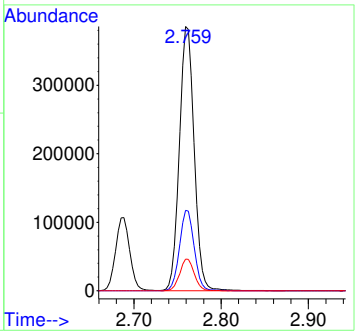


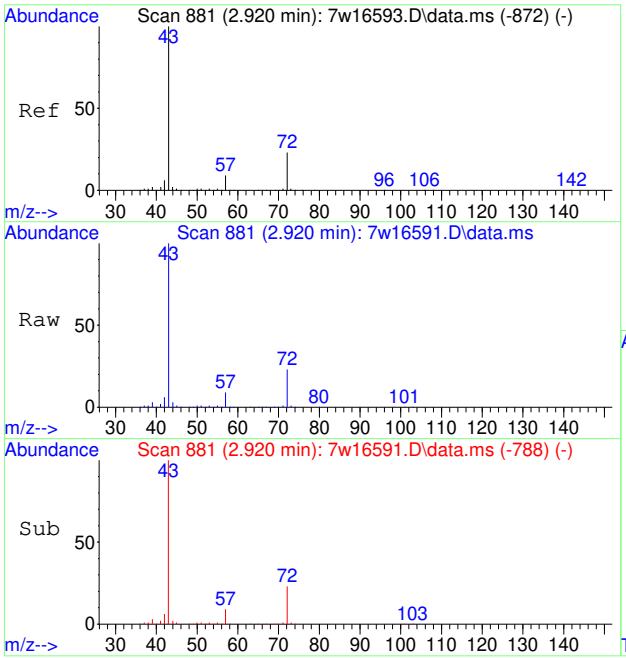


#40
1,1-DICHLOROETHANE
Concen: 18.70 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 455143

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.8	40.6
83	12.0	10.6	19.6

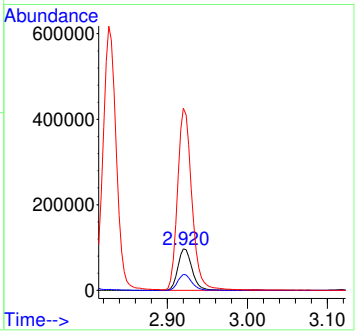


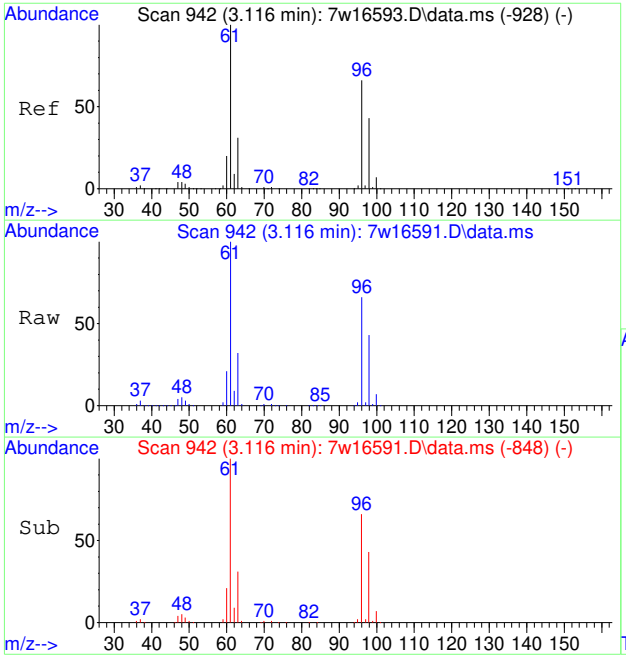


#41
METHYL ETHYL KETONE
Concen: 19.21 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 120276

Ion	Ratio	Lower	Upper
72	100		
57	38.0	20.3	37.7#
43	440.9	282.8	525.2

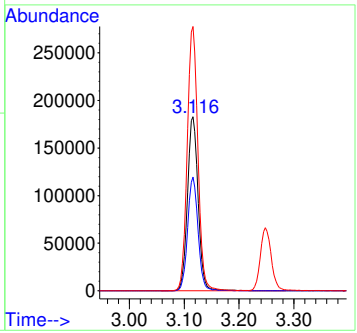


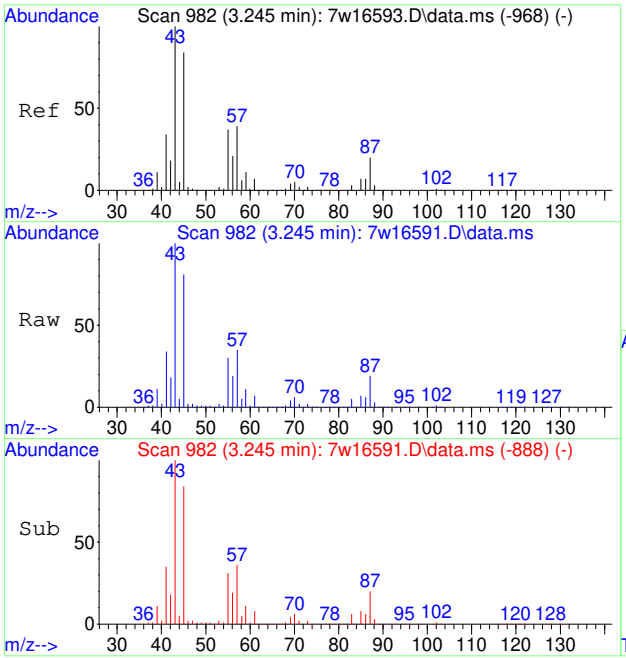


#42
CIS-1,2-DICHLOROETHENE
Concen: 19.20 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 246893

Ion	Ratio	Lower	Upper
96	100		
98	64.1	46.8	86.8
61	152.2	78.3	145.5#

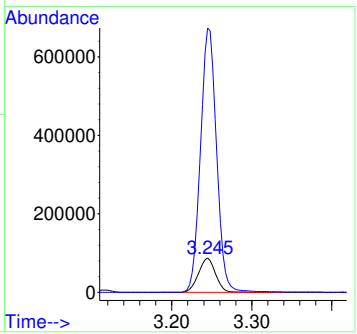


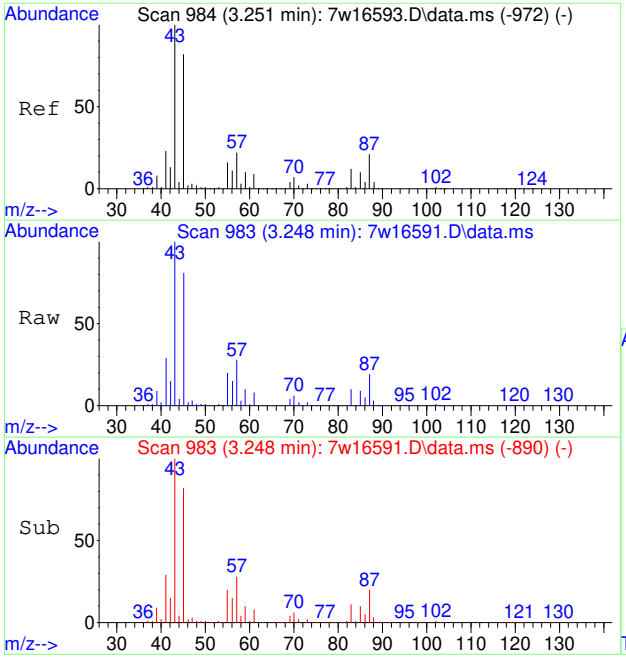


#43
DIISOPROPYL ETHER
Concen: 19.57 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 130636

Ion	Ratio	Lower	Upper
59	100		
45	725.2	532.1	988.1

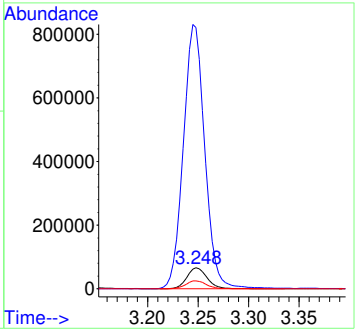


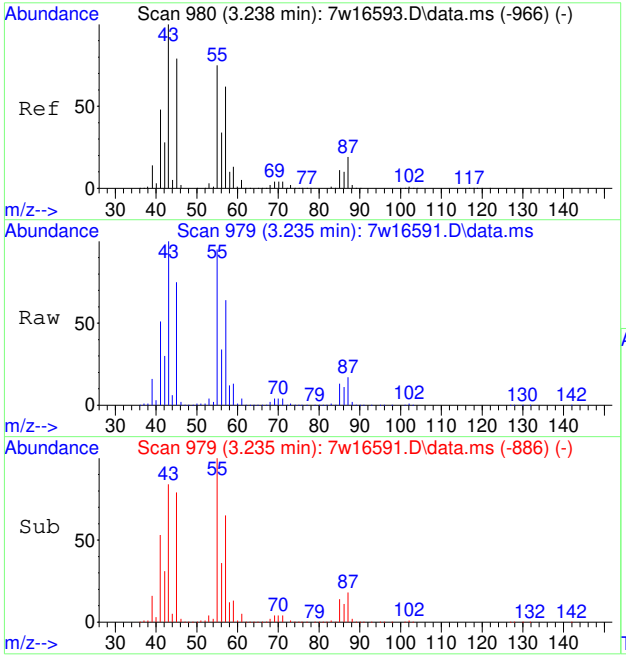


#44
ETHYL ACETATE
Concen: 19.72 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 61 Resp: 93045

Ion	Ratio	Lower	Upper
61	100		
43	1321.4	1127.5	2093.9
88	38.9	36.2	67.2

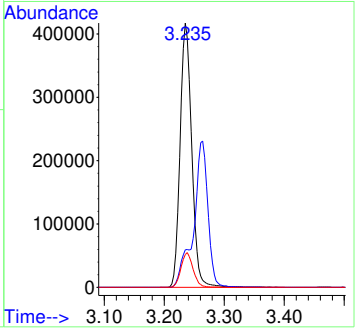


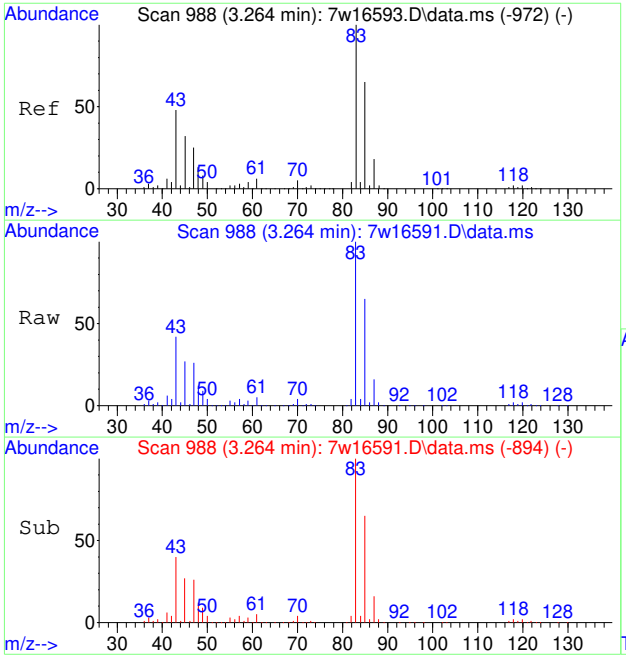


#45
METHYL ACRYLATE
Concen: 19.52 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 561273

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.2	17.0

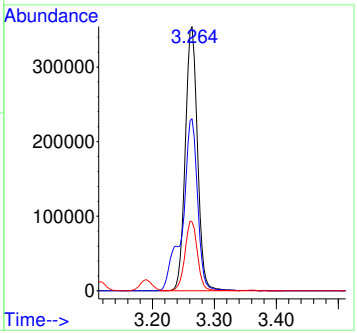


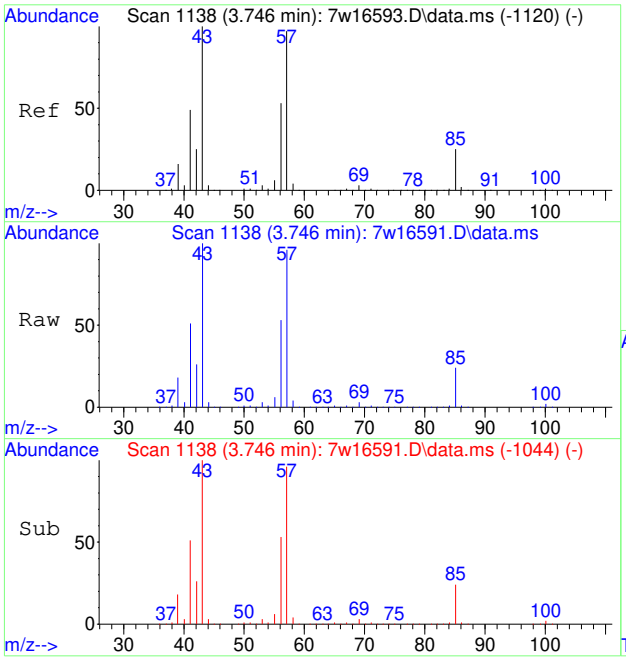


#46
CHLOROFORM
Concen: 19.05 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 484502

Ion	Ratio	Lower	Upper
83	100		
85	80.5	54.6	101.4
47	27.1	17.9	33.3

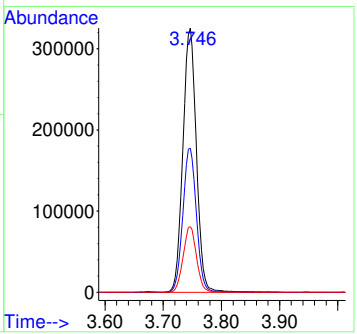


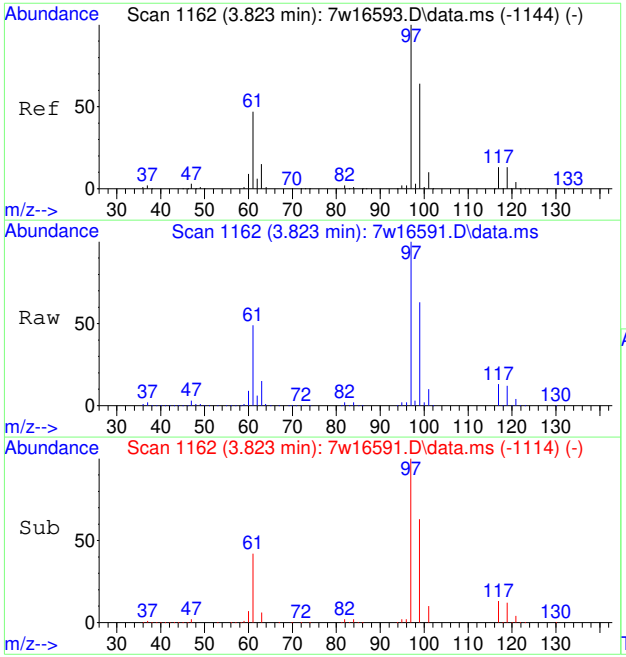


#47
2,4-DIMETHYLPENTANE
Concen: 19.82 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 525364

Ion	Ratio	Lower	Upper
57	100		
56	55.2	39.2	72.8
85	24.9	24.1	44.7

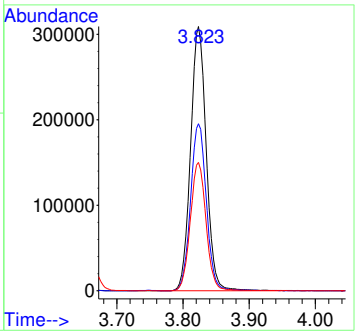


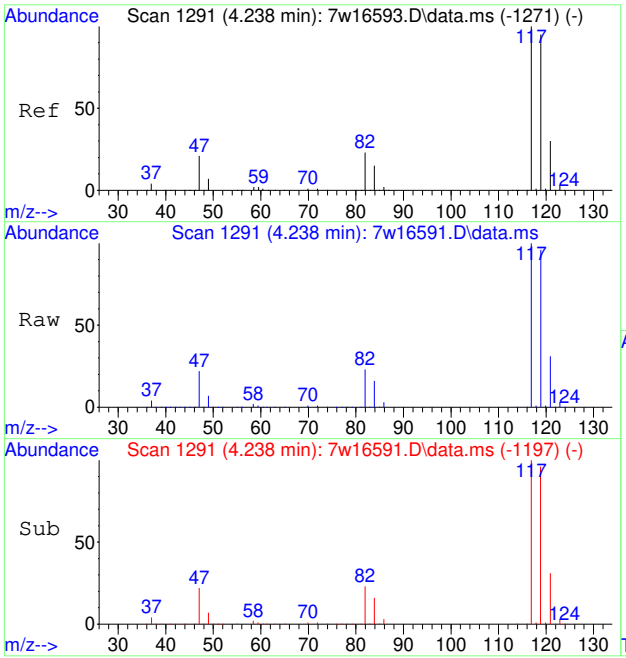


#48
1,1,1-TRICHLOROETHANE
Concen: 19.19 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 97 Resp: 508992

Ion	Ratio	Lower	Upper
97	100		
99	64.0	44.9	83.5
61	48.9	28.6	53.0

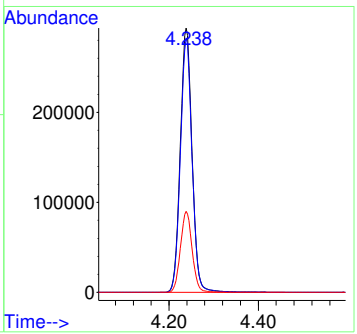


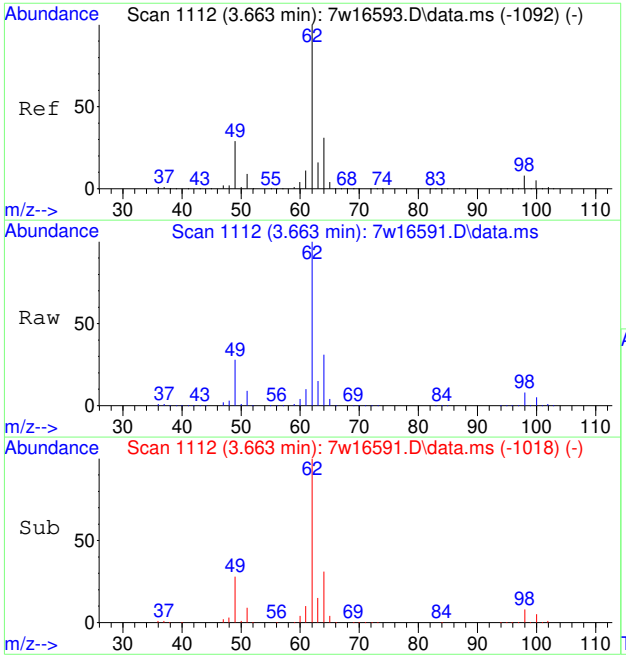


#49
CARBON TETRACHLORIDE
Concen: 18.95 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 536446

Ion	Ratio	Lower	Upper
117	100		
119	95.9	68.8	127.8
121	30.7	22.2	41.2

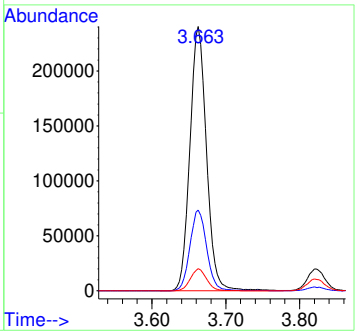


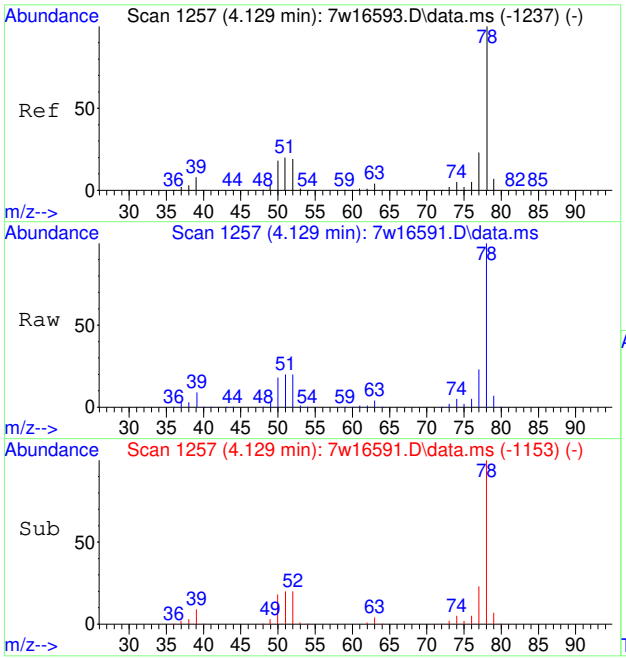


#50
1,2-DICHLOROETHANE
Concen: 18.79 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 375248

Ion	Ratio	Lower	Upper
62	100		
64	31.0	22.5	41.7
98	8.2	6.8	12.6

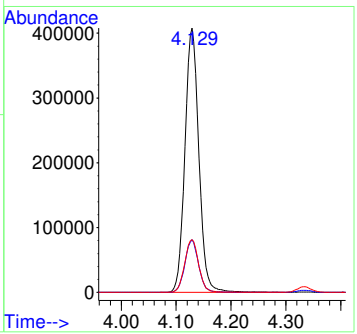


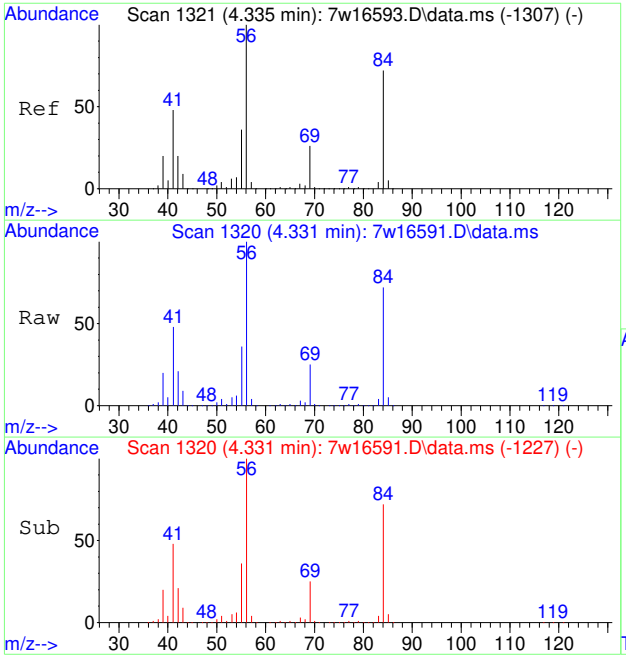


#51
BENZENE
Concen: 19.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 78 Resp: 718150

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	44.6
51	20.1	0.0	47.3

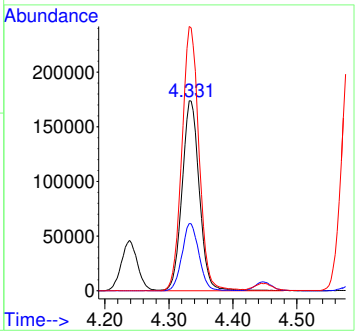


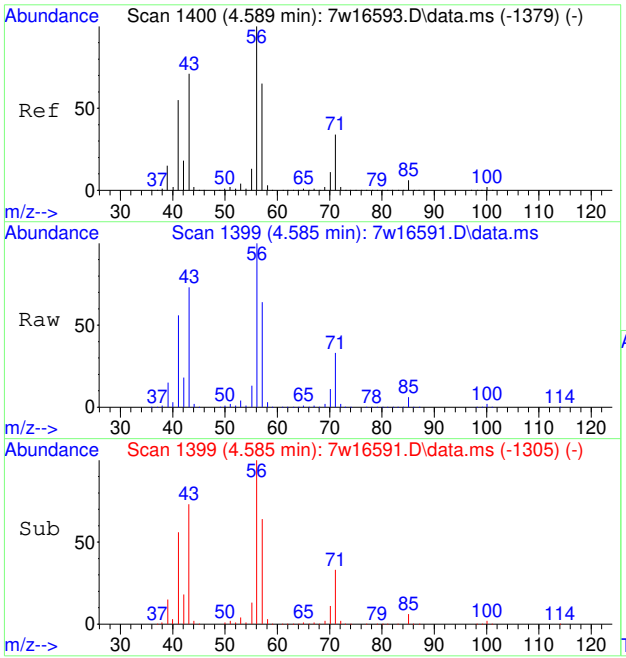


#53
CYCLOHEXANE
Concen: 19.45 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 325475

Ion	Ratio	Lower	Upper
84	100		
69	35.0	22.3	41.5
56	137.7	70.2	130.4#

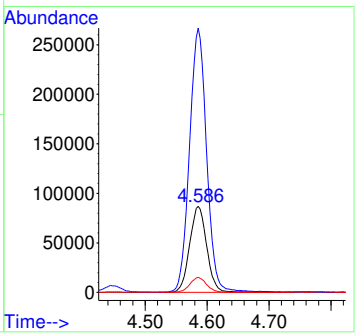


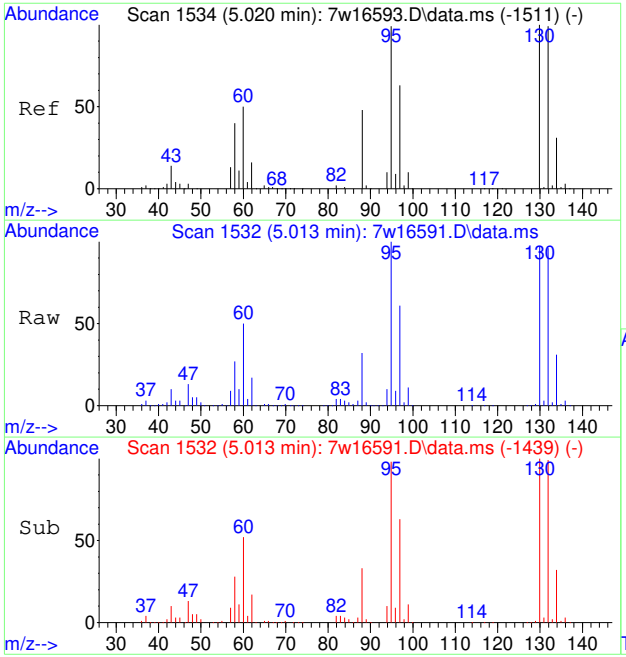


#54
2,3-DIMETHYLPENTANE
Concen: 19.60 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 71 Resp: 167011

Ion	Ratio	Lower	Upper
71	100		
56	306.1	171.4	318.4
85	17.4	12.6	23.4

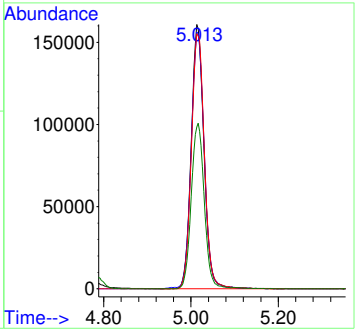


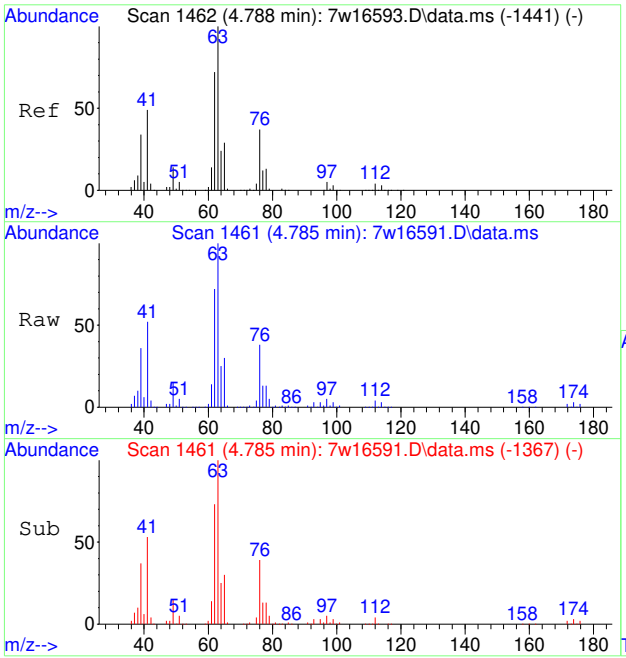


#55
TRICHLOROETHENE
Concen: 18.36 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 95 Resp: 327435

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	98.7	79.4	147.4
97	64.2	45.0	83.6

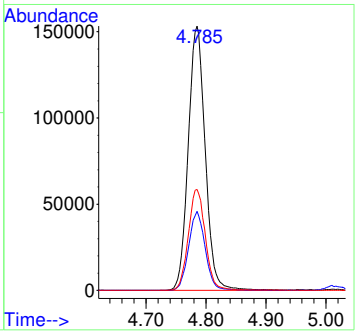


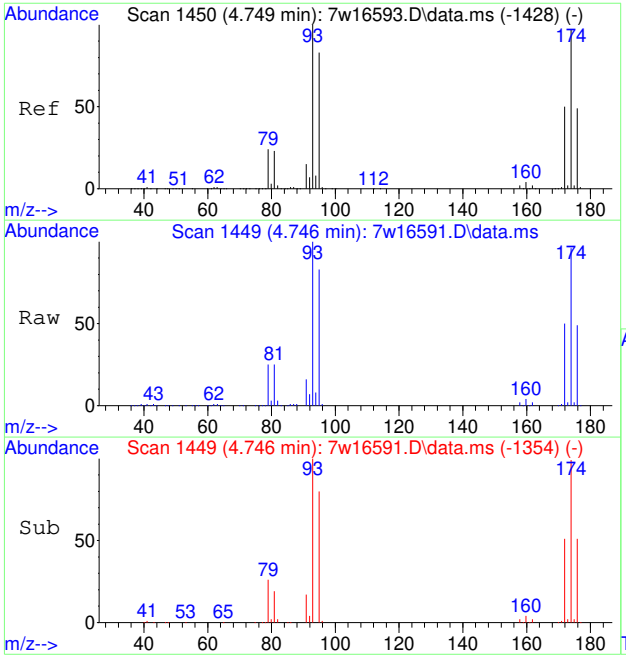


#56
1,2-DICHLOROPROPANE
Concen: 19.23 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 302257

Ion	Ratio	Lower	Upper
63	100		
65	29.4	22.6	42.0
76	38.4	31.8	59.0

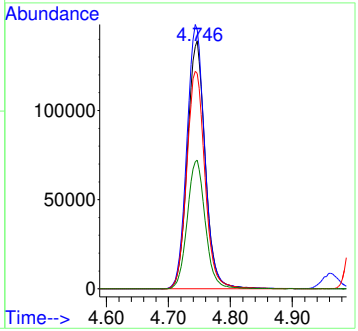


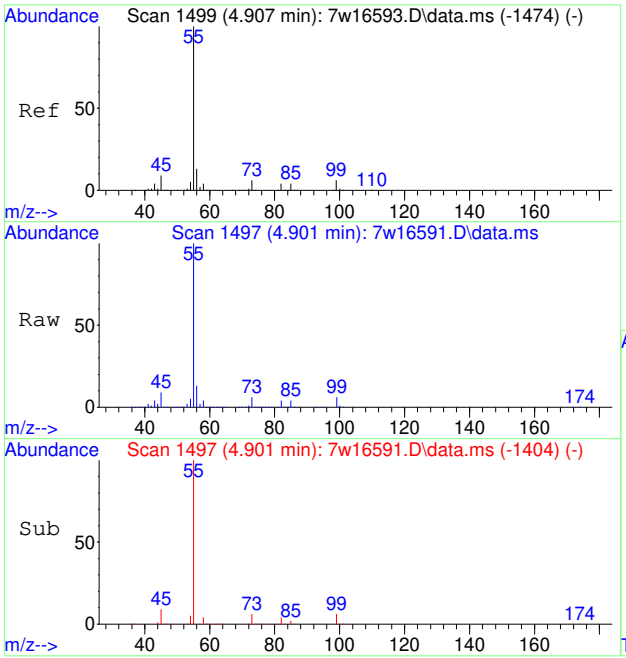


#57
DIBROMOMETHANE
Concen: 19.08 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:174 Resp: 277930

Ion	Ratio	Lower	Upper
174	100		
93	107.2	67.3	125.1
95	89.6	56.8	105.6
172	52.5	36.3	67.5

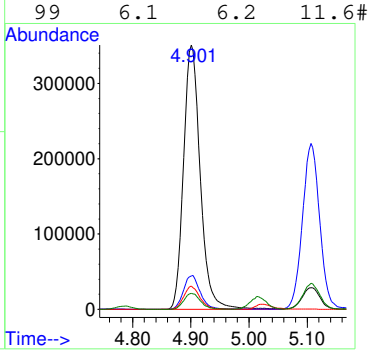


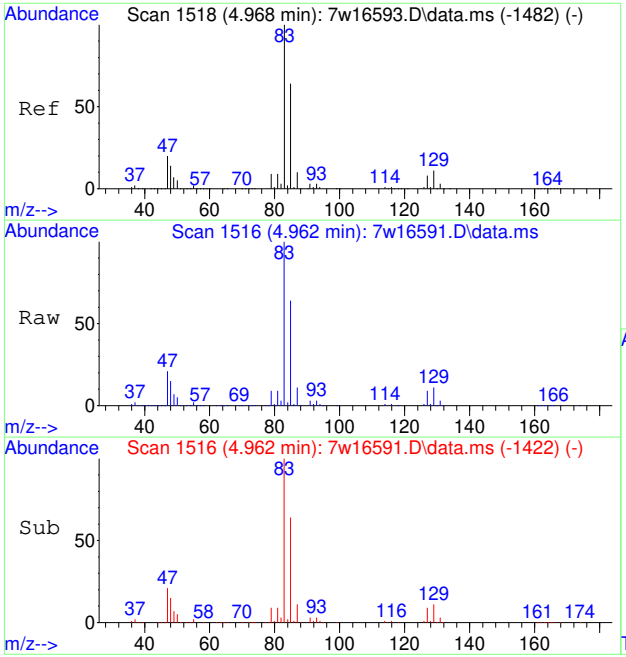


#58
ETHYL ACRYLATE
Concen: 19.73 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 703238

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	8.7	6.6	12.2
99	6.1	6.2	11.6#

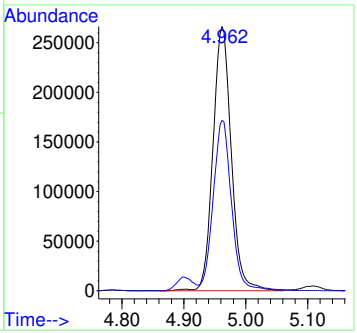


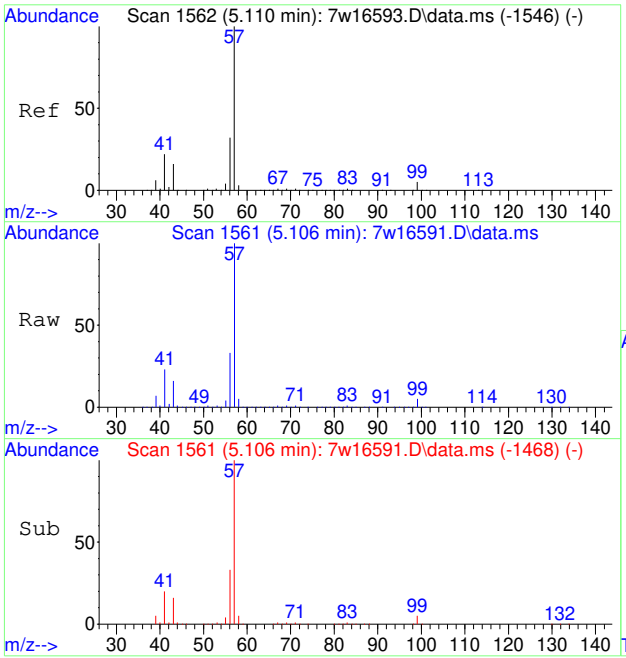


#59
BROMODICHLOROMETHANE
Concen: 18.61 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 549357

Ion	Ratio	Lower	Upper
83	100		
85	64.6	44.9	83.5

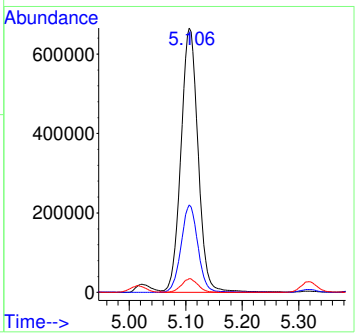


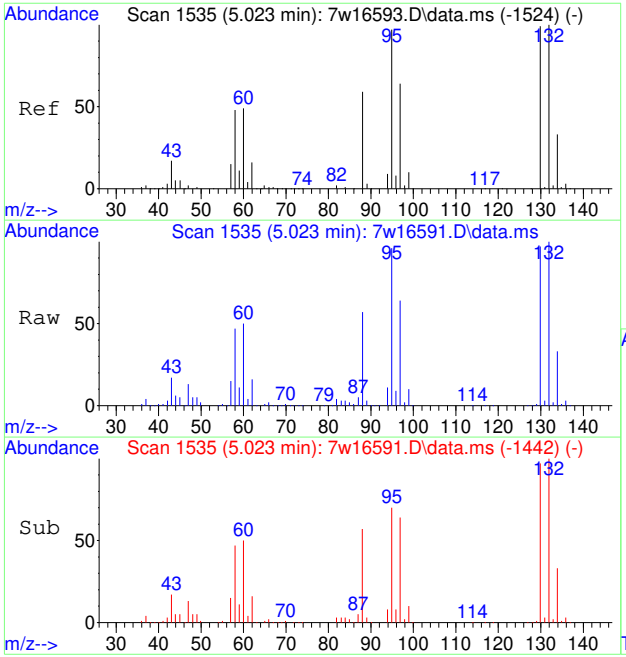


#60
2,2,4-TRIMETHYLPENTANE
Concen: 18.90 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 1404688

Ion	Ratio	Lower	Upper
57	100		
56	32.6	24.4	45.2
99	5.1	5.2	9.6#

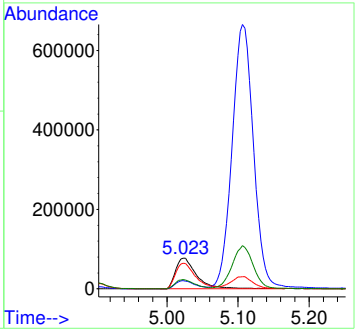


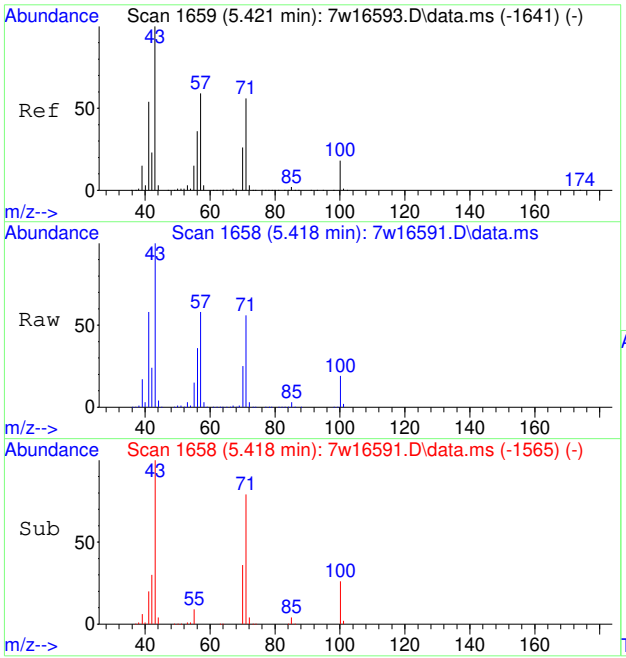


#61
1,4-DIOXANE
Concen: 18.11 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 88 Resp: 159487

Ion	Ratio	Lower	Upper
88	100		
57	24.0	13.1	24.3
58	77.6	39.1	72.5#
43	27.7	18.3	33.9

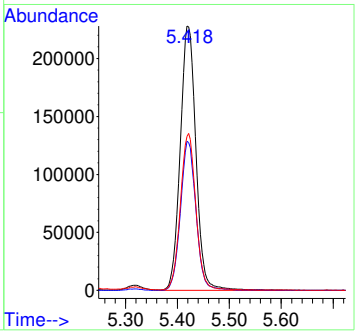


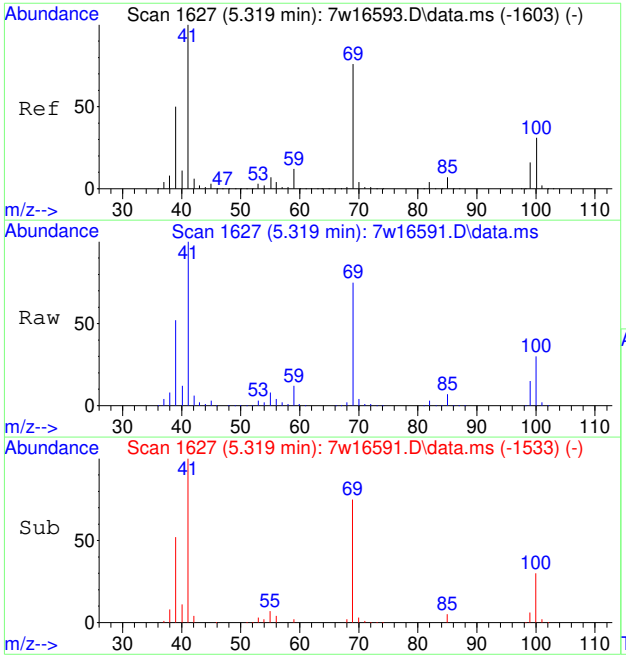


#62
HEPTANE
Concen: 19.19 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 476905

Ion	Ratio	Lower	Upper
43	100		
71	55.8	45.0	83.6
57	58.6	37.2	69.0

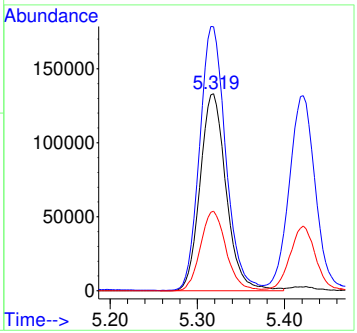


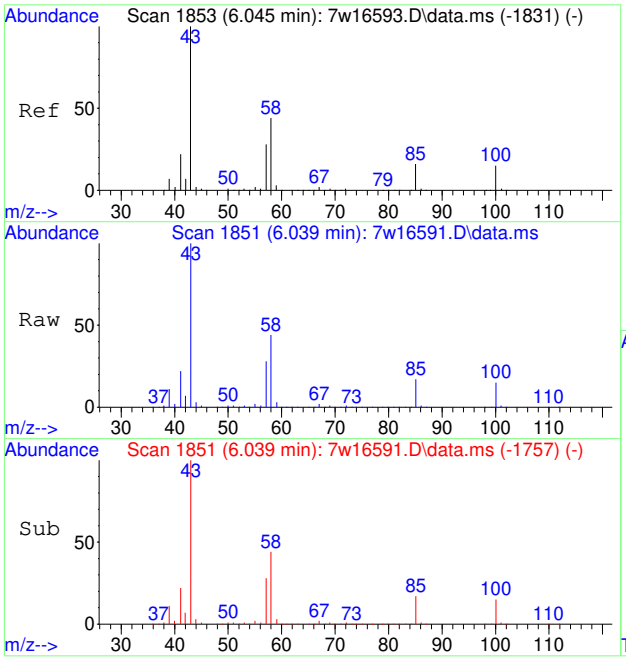


#63
METHYL METHACRYLATE
Concen: 19.41 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 276982

Ion	Ratio	Lower	Upper
69	100		
41	133.5	84.3	156.5
100	39.8	30.8	57.2

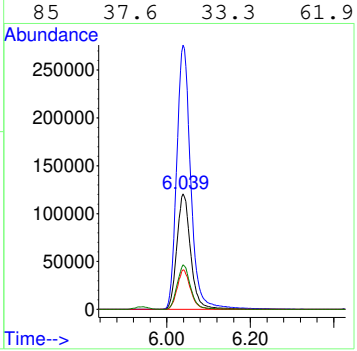


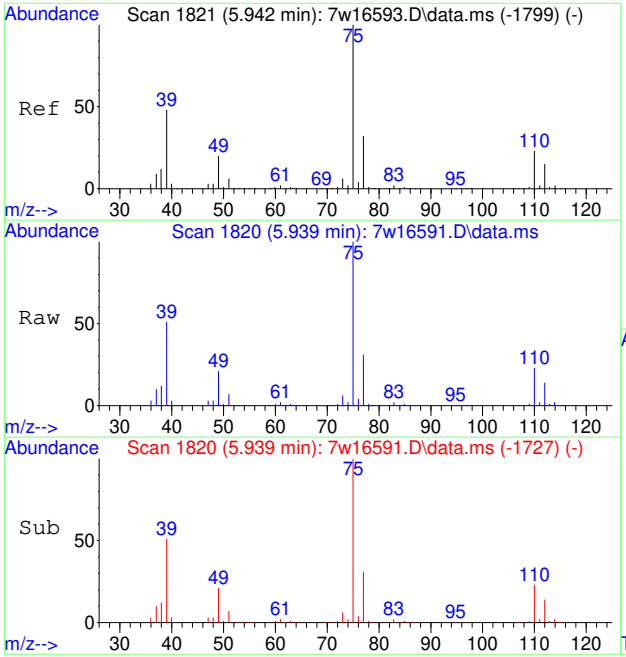


#64
METHYL ISOBUTYL KETONE
Concen: 19.00 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 278396

Ion	Ratio	Lower	Upper
58	100		
43	0.0	193.8	360.0#
100	33.4	32.8	60.8
85	37.6	33.3	61.9

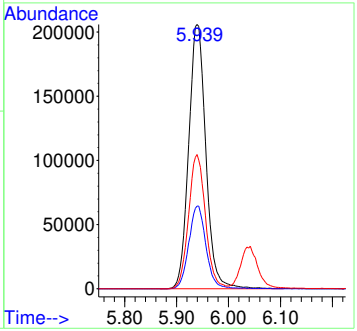


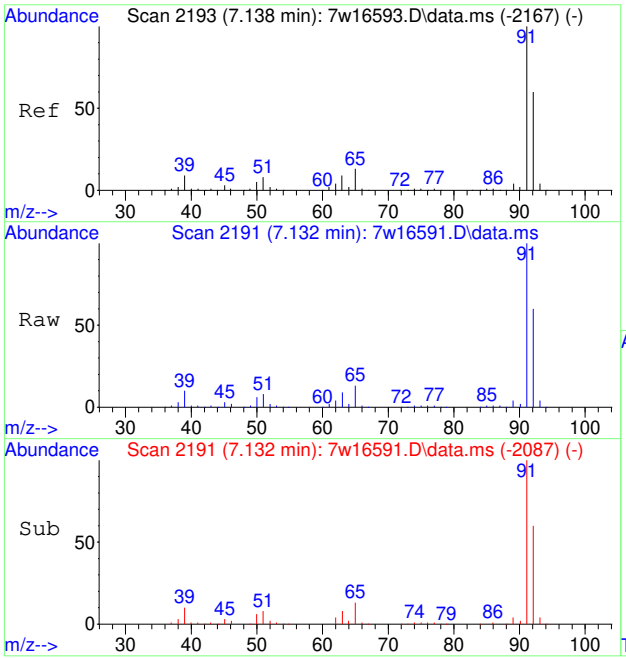


#65
CIS-1,3-DICHLOROPROPENE
Concen: 19.04 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 474515

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	40.8
39	50.0	38.5	71.5

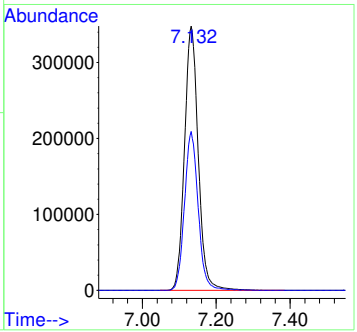


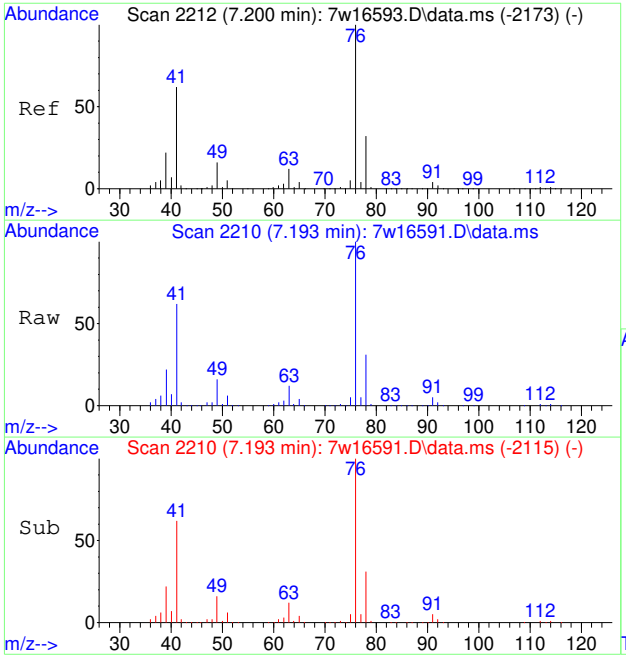


#66
TOLUENE
Concen: 19.86 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 898243

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

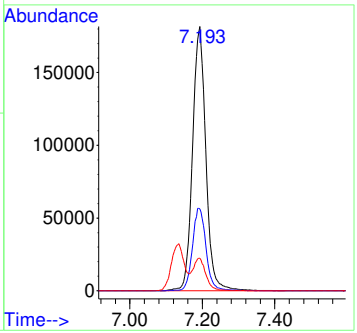


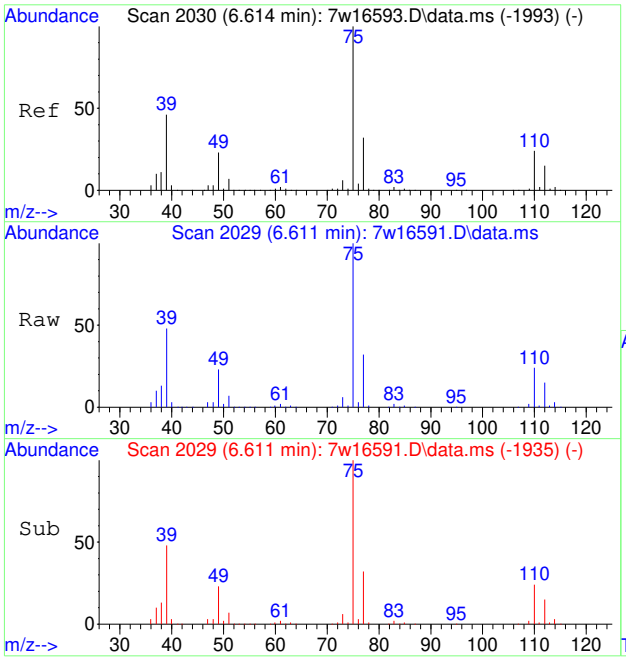


#67
1,3-DICHLOROPROPANE
Concen: 19.84 PPBV
RT: 7.193 min Scan# 2210
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 463972

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	12.7	8.0	14.8

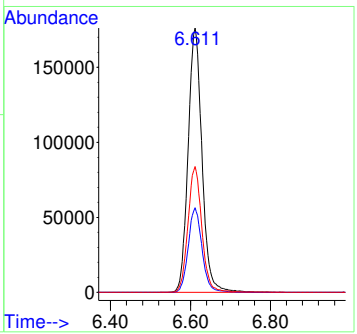


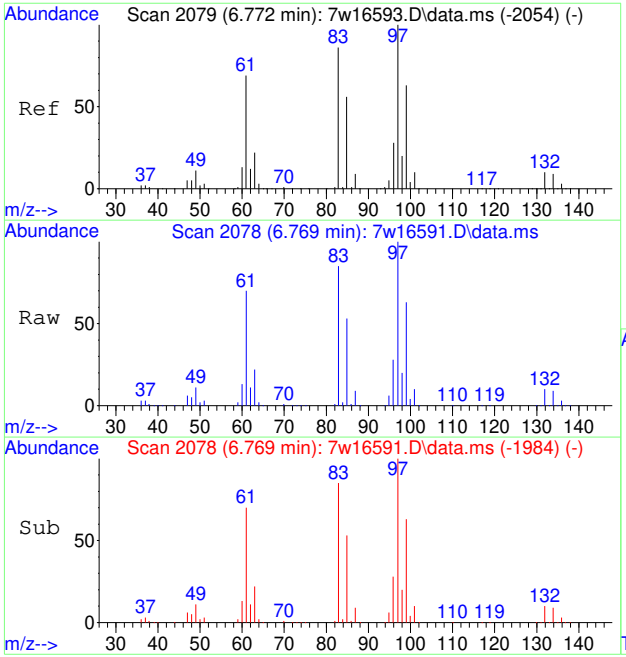


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 18.27 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 425650

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.5	41.7
39	47.6	37.2	69.0

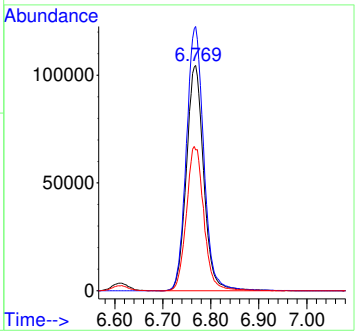


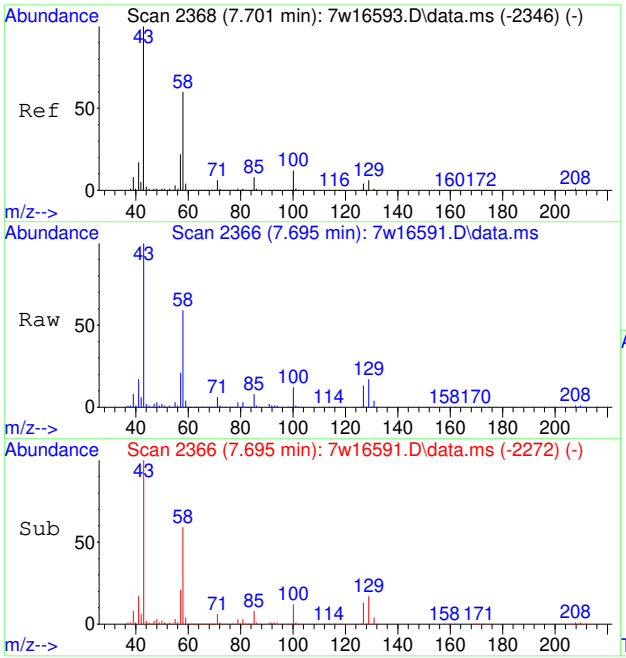


#69
1,1,2-TRICHLOROETHANE
Concen: 19.57 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 262141

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	64.8	45.5	84.5

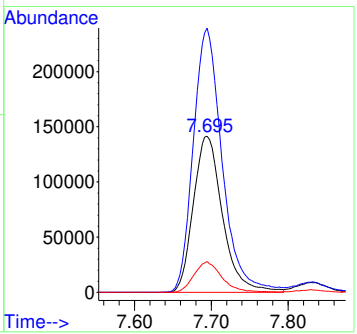


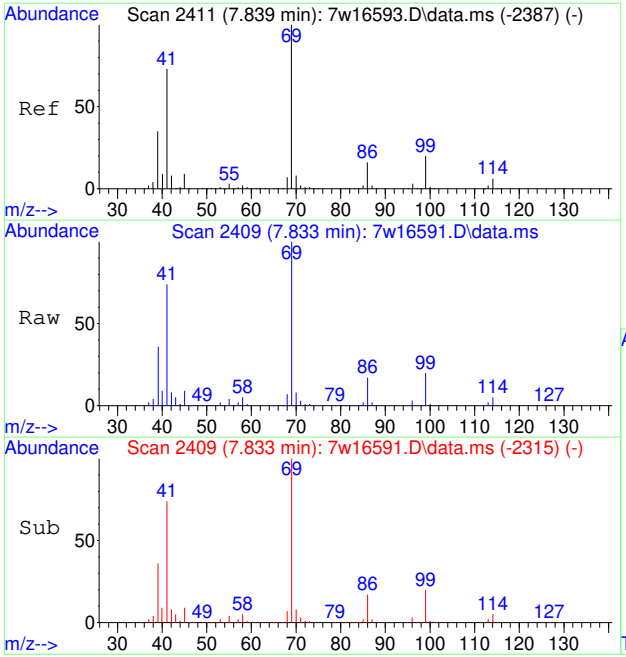


#70
2-HEXANONE
Concen: 19.43 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 374273

Ion	Ratio	Lower	Upper
58	100		
43	167.3	141.7	263.3
100	18.8	18.9	35.1#

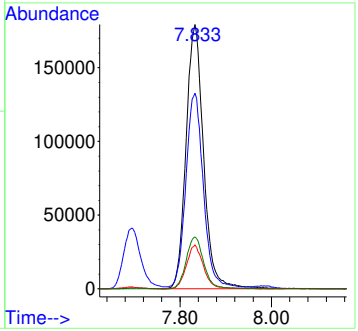


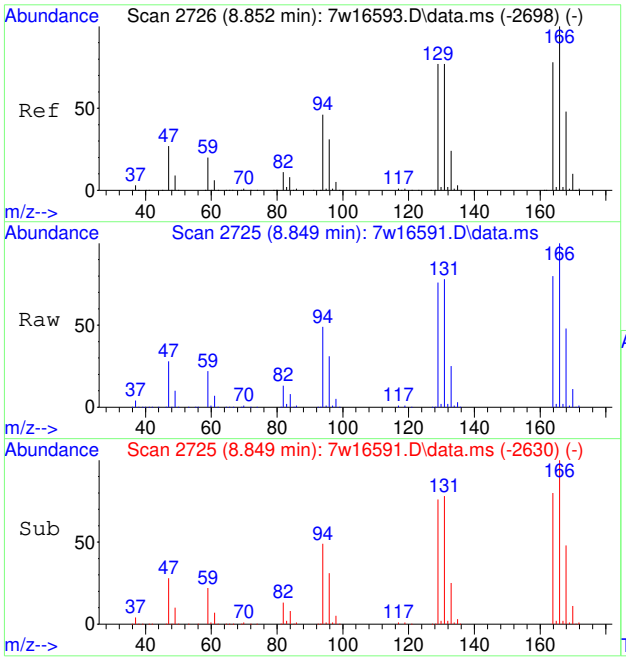


#71
ETHYL METHACRYLATE
Concen: 19.46 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 477947

Ion	Ratio	Lower	Upper
69	100		
41	74.6	49.3	91.6
86	16.2	11.6	21.6
99	19.7	13.4	24.8

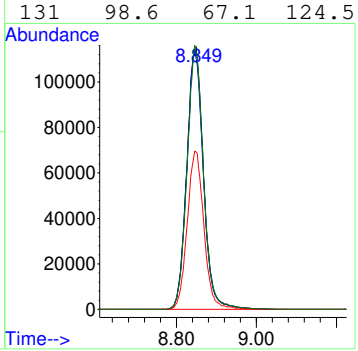


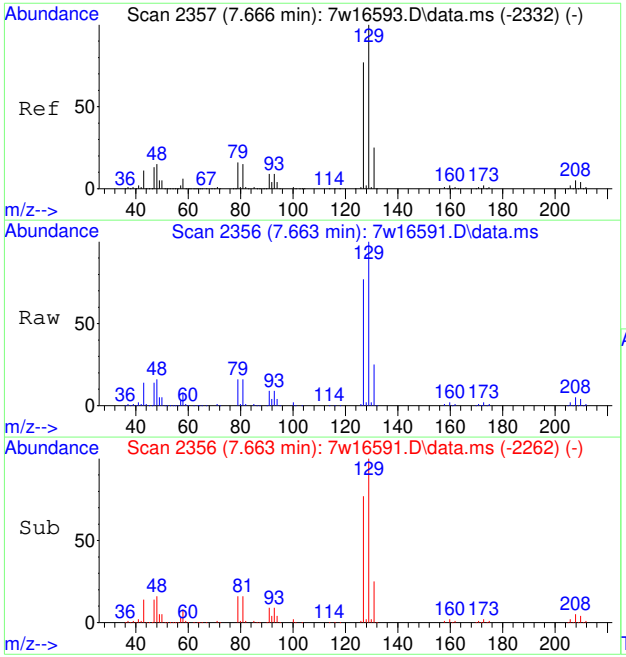


#72
TETRACHLOROETHENE
Concen: 20.14 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:164 Resp: 335304

Ion	Ratio	Lower	Upper
164	100		
129	98.3	69.7	129.5
168	60.2	43.4	80.6
131	98.6	67.1	124.5

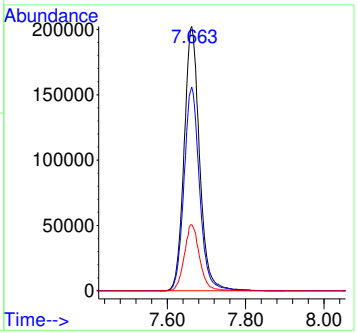


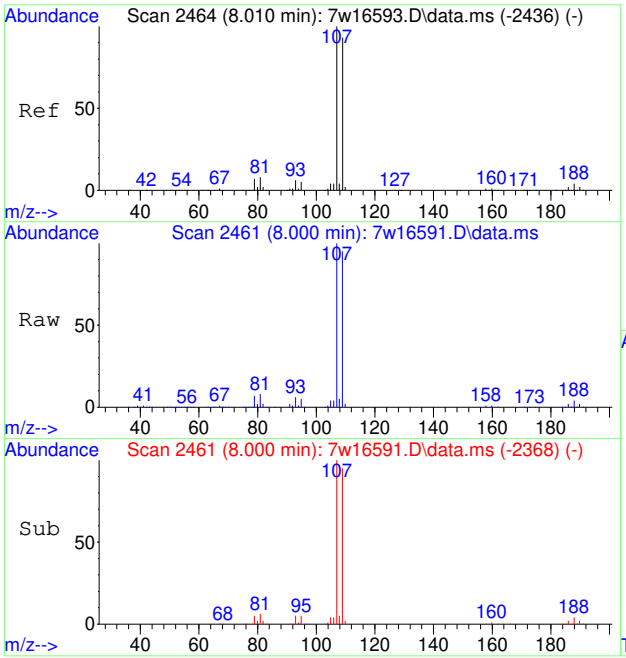


#73
DIBROMOCHLOROMETHANE
Concen: 19.81 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:129 Resp: 551638

Ion	Ratio	Lower	Upper
129	100		
127	77.6	53.0	98.4
131	24.9	16.9	31.3

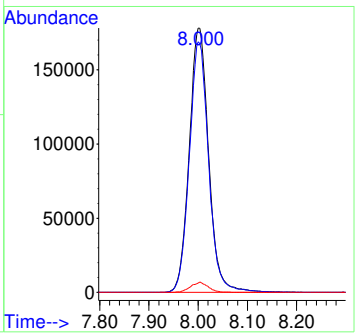


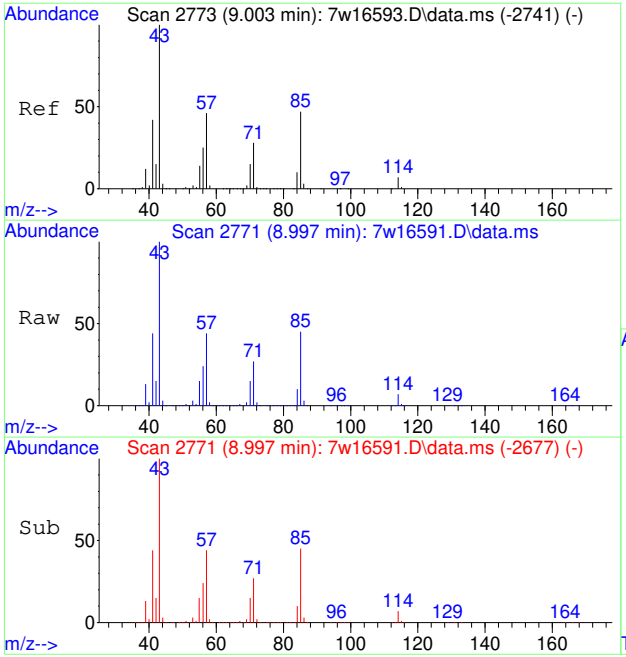


#74
1,2-DIBROMOETHANE
Concen: 20.42 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:107 Resp: 487978

Ion	Ratio	Lower	Upper
107	100		
109	94.6	65.7	122.1
188	3.6	2.4	4.4

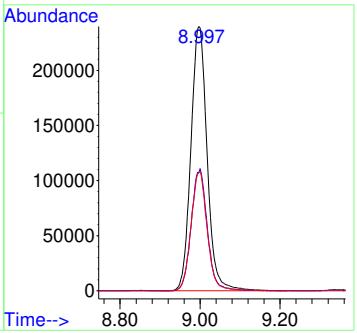


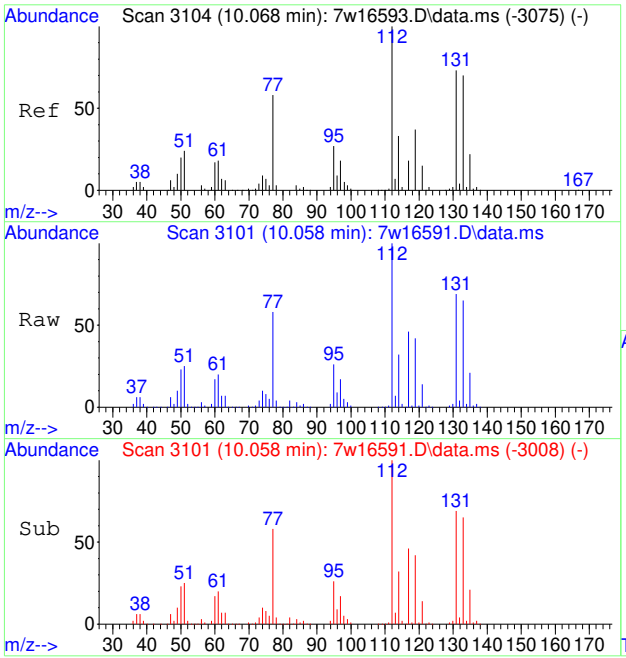


#75
OCTANE
Concen: 19.89 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 676810

Ion	Ratio	Lower	Upper
43	100		
85	45.8	36.5	67.9
57	44.8	27.6	51.2

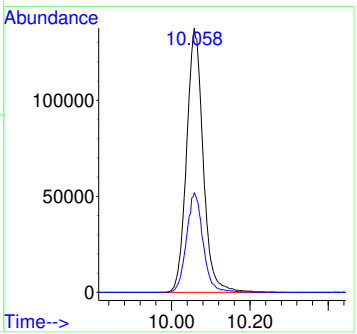


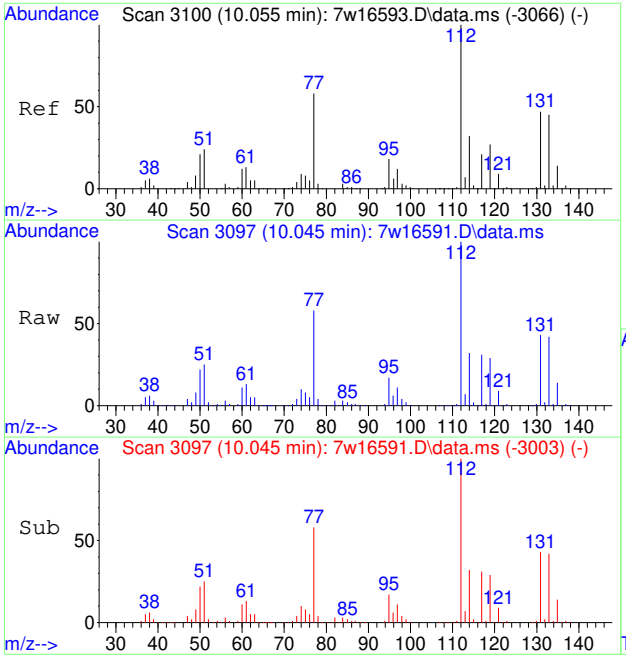


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.28 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:131 Resp: 402558

Ion	Ratio	Lower	Upper
131	100		
95	37.9	23.7	43.9

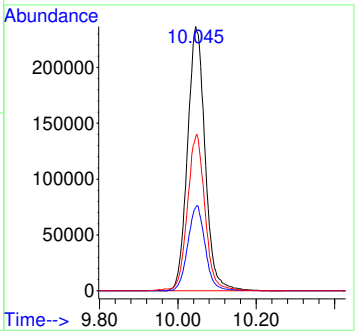


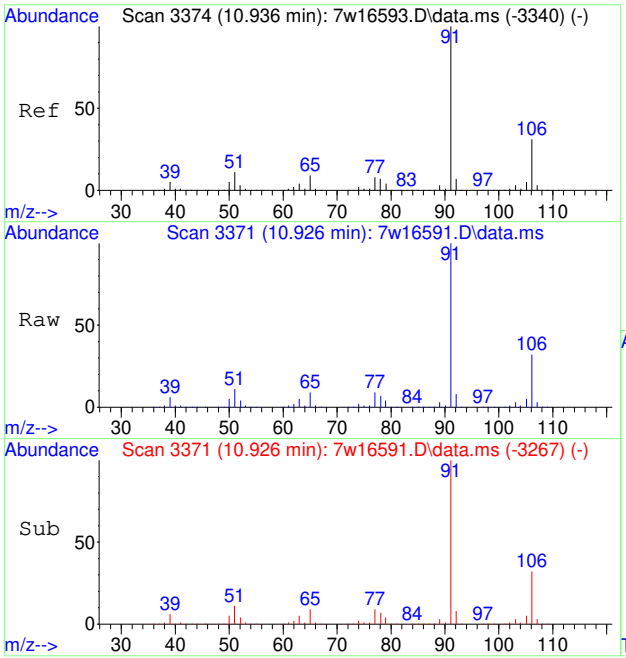


#78
CHLOROBENZENE
Concen: 20.26 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:112 Resp: 735731

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.4	34.4	63.8

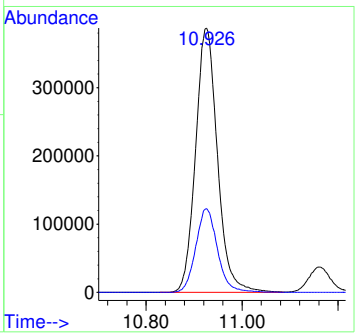


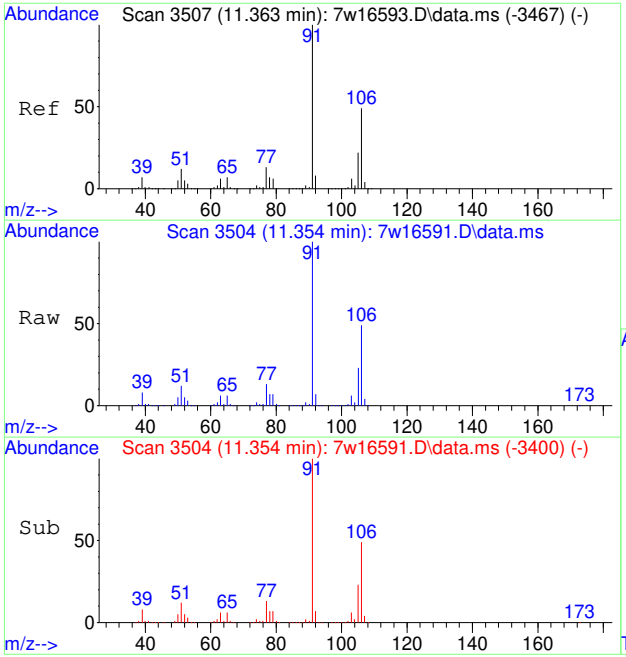


#79
ETHYLBENZENE
Concen: 20.44 PPBV
RT: 10.926 min Scan# 3371
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1222868

Ion	Ratio	Lower	Upper
91	100		
106	31.6	2.8	62.8

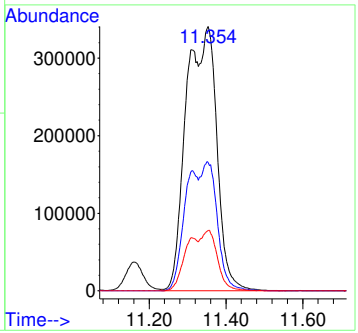


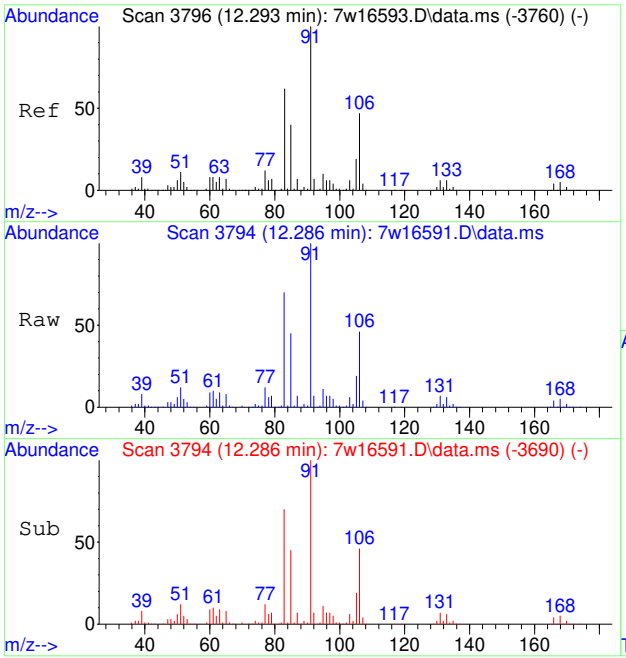


#80
M,P-XYLENE
Concen: 39.40 PPBV
RT: 11.354 min Scan# 3504
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1892381

Ion	Ratio	Lower	Upper
91	100		
106	27.4	0.0	58.7
105	12.7	0.0	43.2

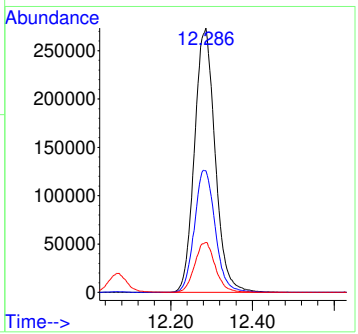


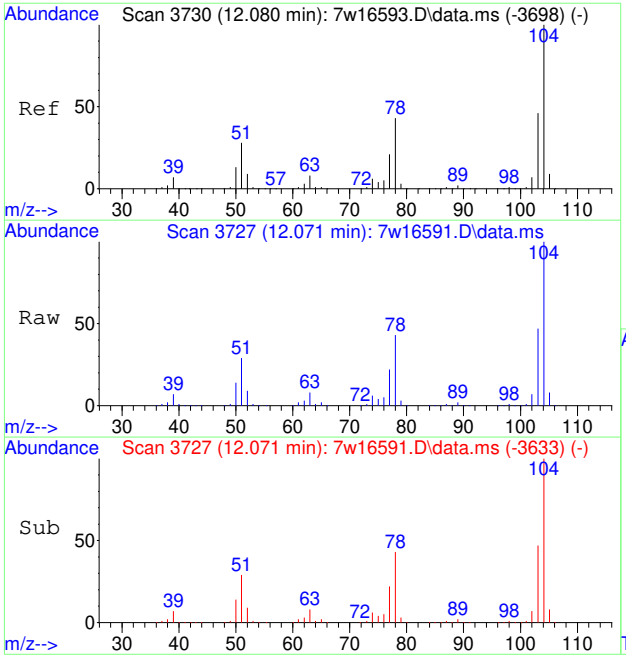


#81
O-XYLENE
Concen: 20.37 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 959093

Ion	Ratio	Lower	Upper
91	100		
106	46.0	34.1	63.3
105	18.8	14.6	27.2

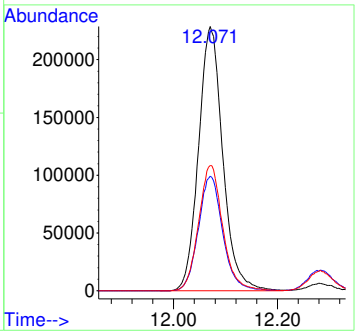


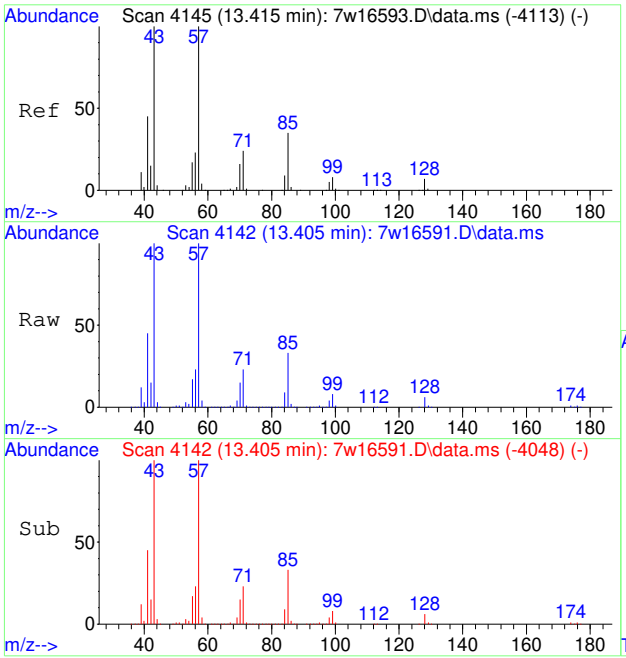


#82
STYRENE
Concen: 20.29 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:104 Resp: 744213

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	47.3	33.2	61.7

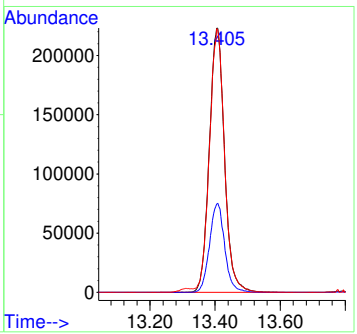


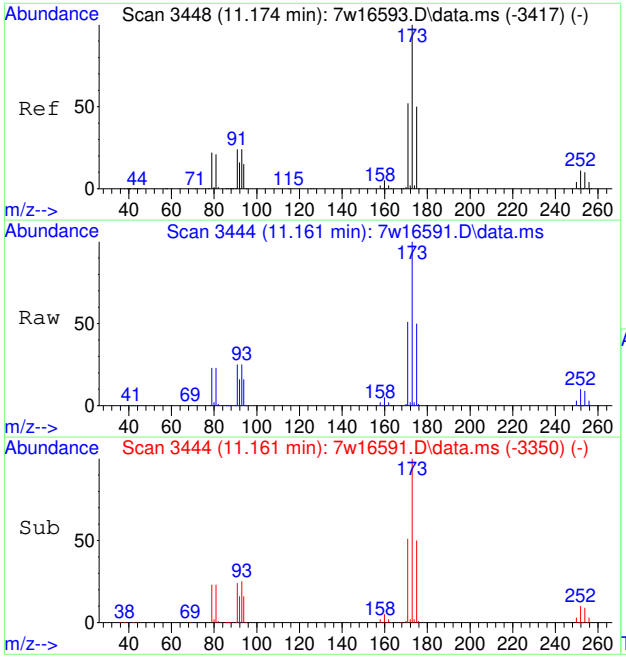


#83
NONANE
Concen: 20.03 PPBV
RT: 13.405 min Scan# 4142
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 723418

Ion	Ratio	Lower	Upper
43	100		
85	33.6	27.6	51.2
57	99.4	56.4	104.7

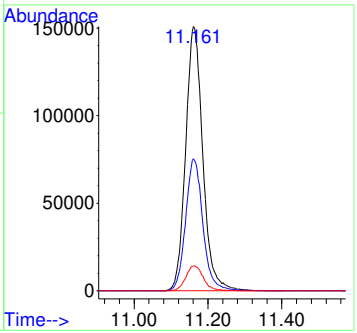


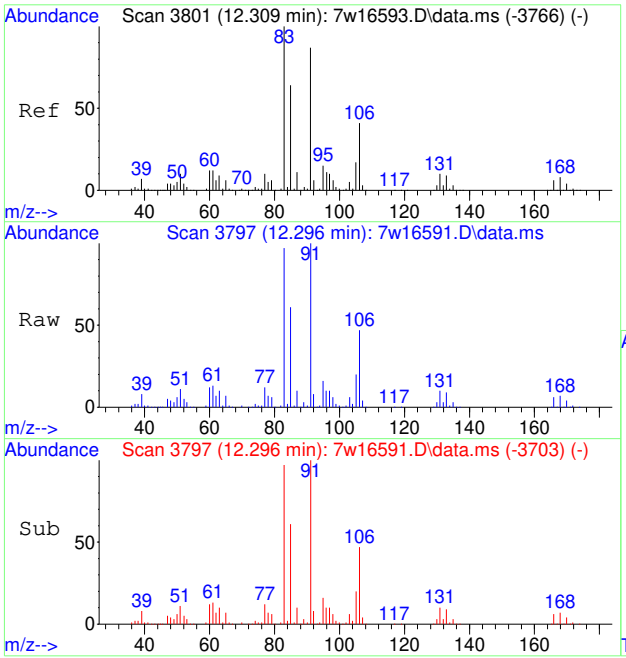


#84
BROMOFORM
Concen: 20.35 PPBV
RT: 11.161 min Scan# 3444
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:173 Resp: 487585

Ion	Ratio	Lower	Upper
173	100		
175	50.2	33.0	61.4
254	9.8	5.9	10.9

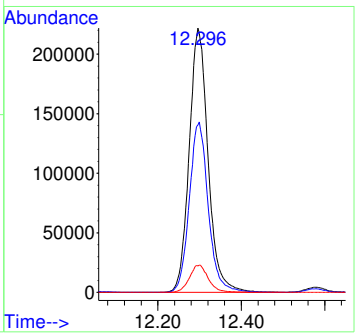


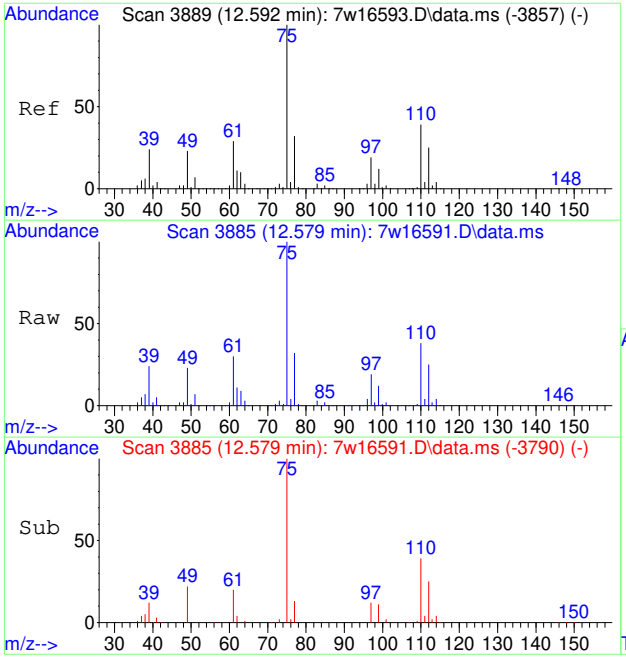


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 20.31 PPBV
RT: 12.296 min Scan# 3797
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 696701

Ion	Ratio	Lower	Upper
83	100		
85	64.7	44.6	82.8
131	10.4	8.0	14.8

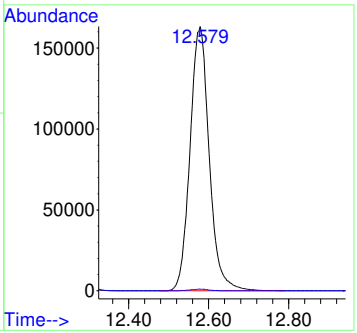


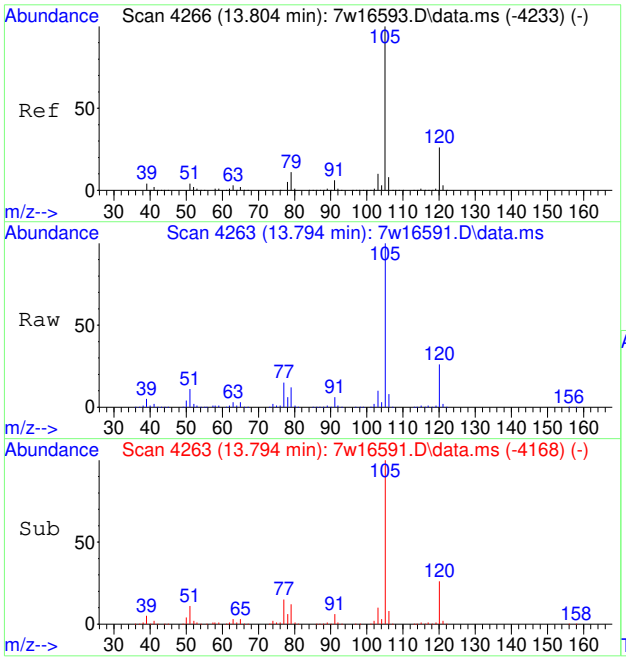


#86
1,2,3-TRICHLOROPROPANE
Concen: 20.17 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 544148

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

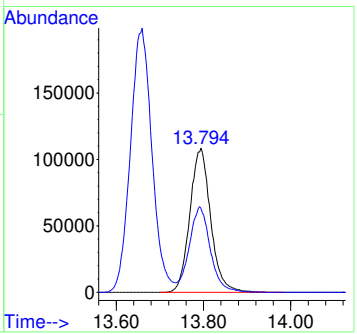


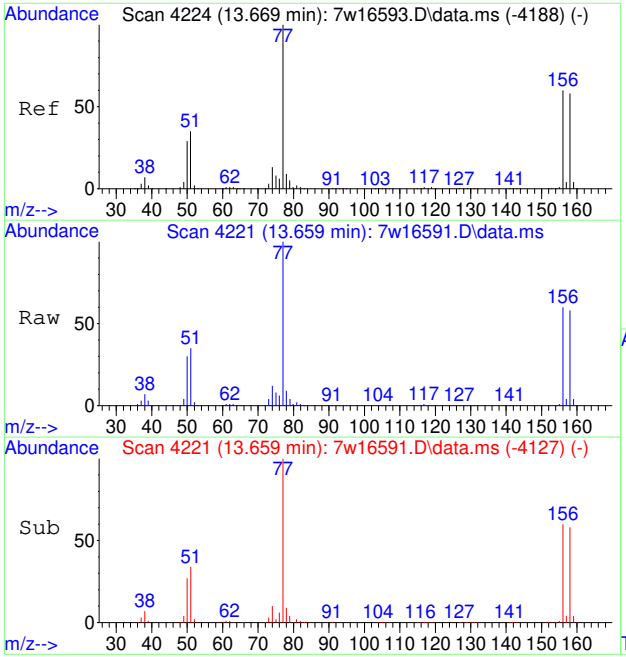


#88
ISOPROPYLBENZENE
Concen: 19.98 PPBV
RT: 13.794 min Scan# 4263
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 360209

Ion	Ratio	Lower	Upper
120	100		
77	59.8	36.0	67.0

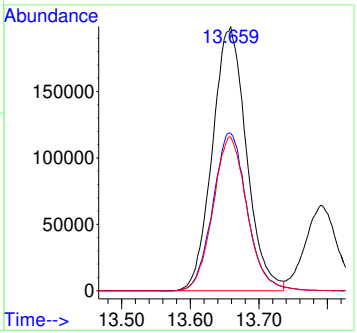


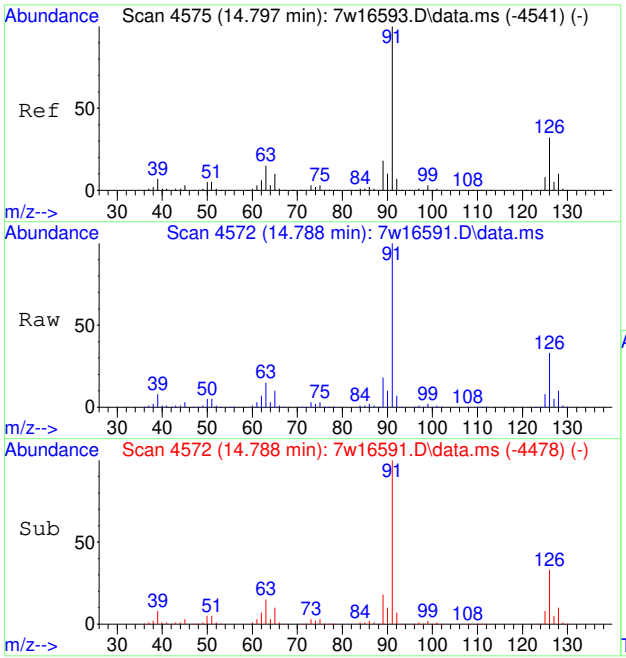


#89
BROMOBENZENE
Concen: 20.06 PPBV
RT: 13.659 min Scan# 4221
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 77 Resp: 684288

Ion	Ratio	Lower	Upper
77	100		
156	60.4	57.9	107.5
158	58.5	55.7	103.5

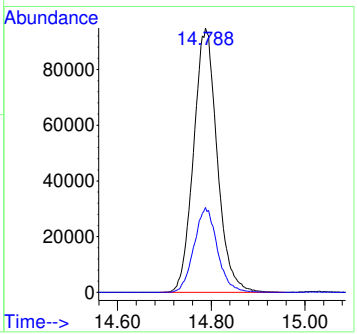


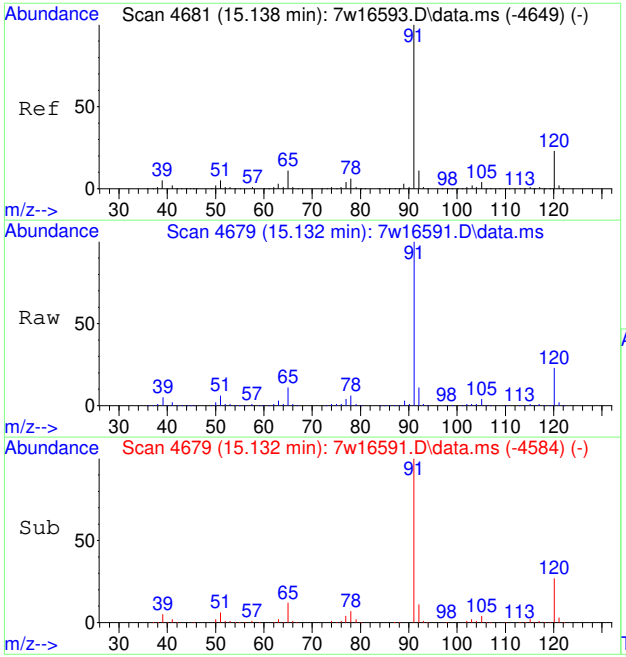


#90
2-CHLOROTOLUENE
Concen: 19.42 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:126 Resp: 331208

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.7	42.1

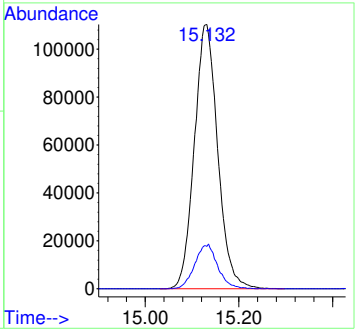


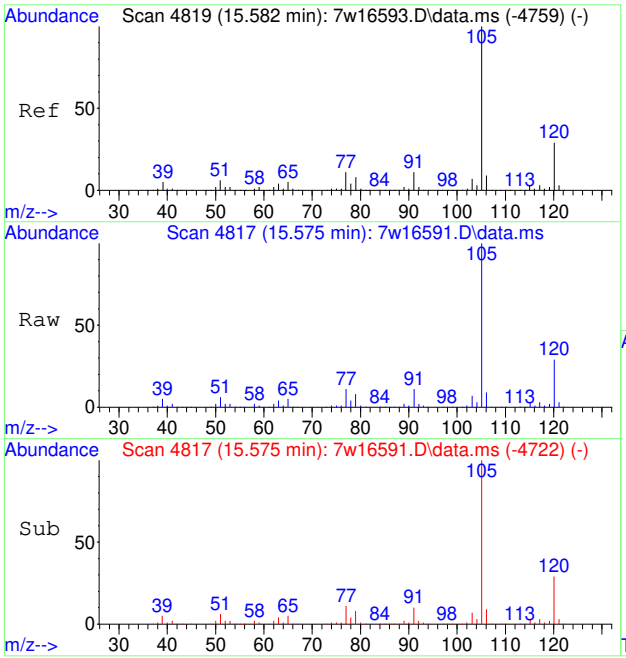


#91
N-PROPYLBENZENE
Concen: 19.58 PPBV
RT: 15.132 min Scan# 4679
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 382520

Ion	Ratio	Lower	Upper
120	100		
105	16.6	10.6	19.6

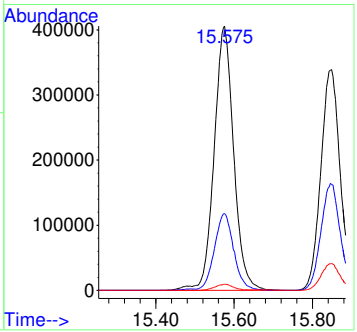


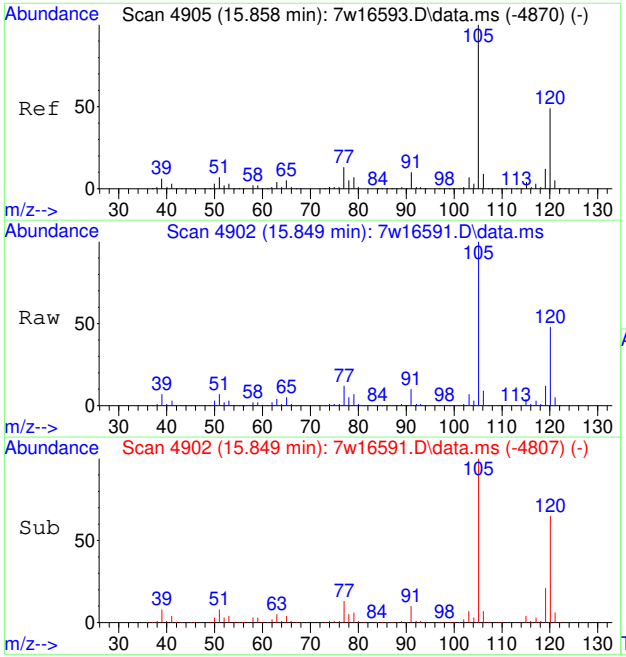


#92
4-ETHYLTOLUENE
Concen: 19.94 PPBV
RT: 15.575 min Scan# 4817
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1412222

Ion	Ratio	Lower	Upper
105	100		
120	29.2	21.8	40.4
119	2.2	1.7	3.1

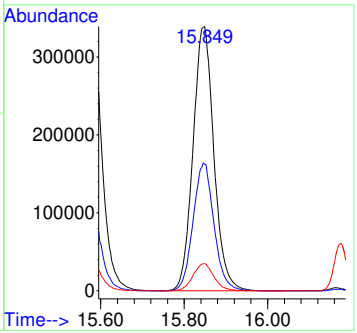


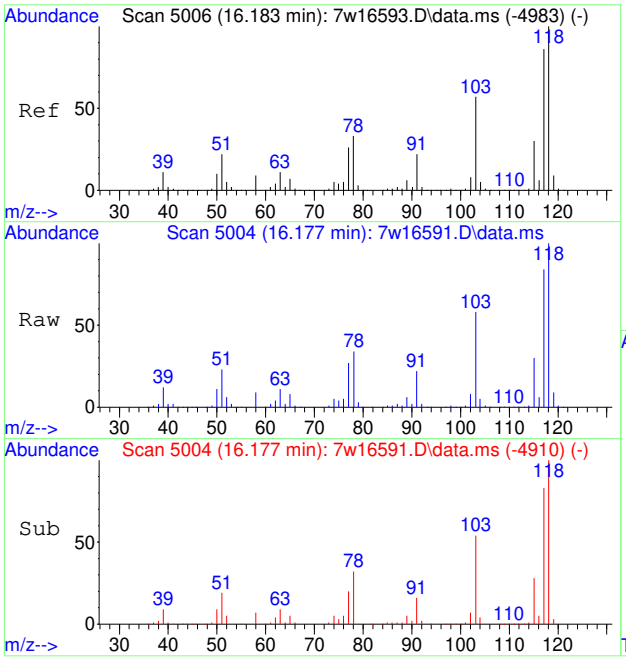


#93
1,3,5-TRIMETHYLBENZENE
Concen: 19.94 PPBV
RT: 15.849 min Scan# 4902
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1177558

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.4	7.5	13.9

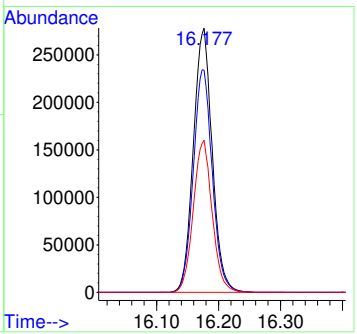


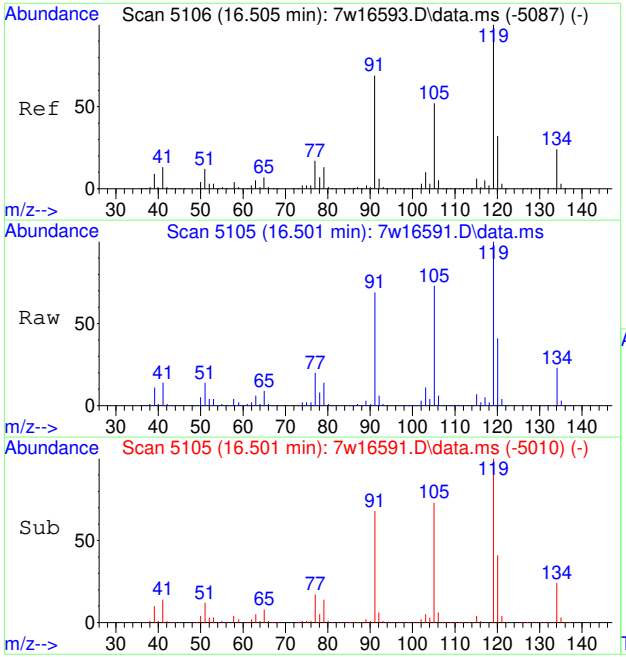


#94
ALPHA-METHYLSTYRENE
Concen: 19.51 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:118 Resp: 587843

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	57.5	36.2	67.2

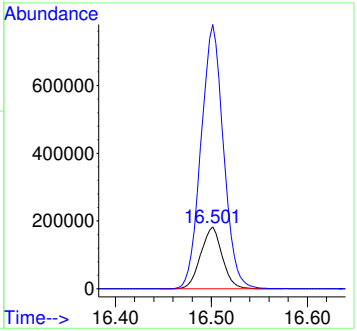


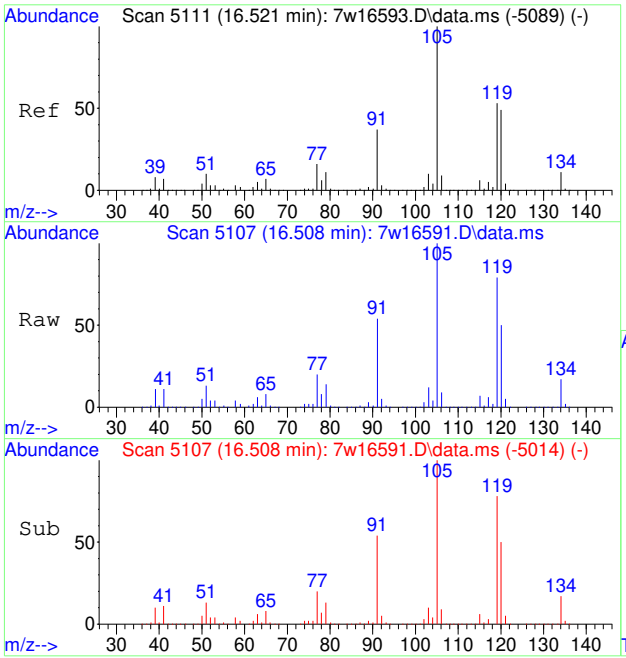


#95
TERT-BUTYLBENZENE
Concen: 19.96 PPBV
RT: 16.501 min Scan# 5105
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 284215

Ion	Ratio	Lower	Upper
134	100		
119	447.3	307.9	571.7

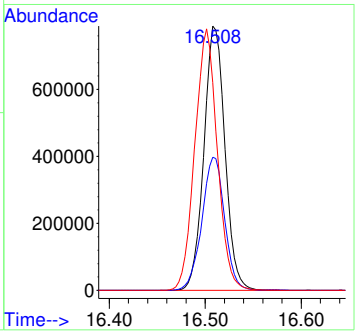


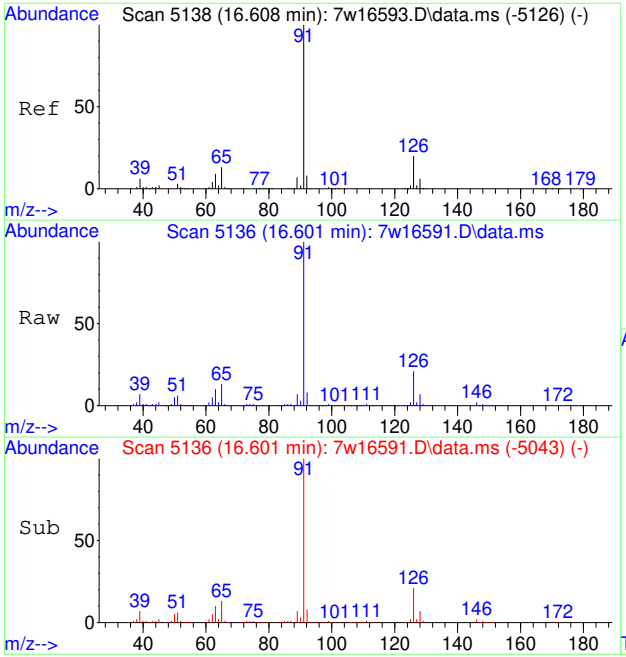


#96
1,2,4-TRIMETHYLBENZENE
Concen: 20.20 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1206100

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	105.4	78.0	144.8

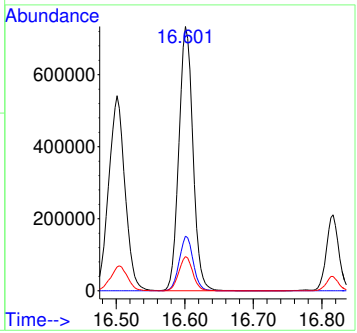


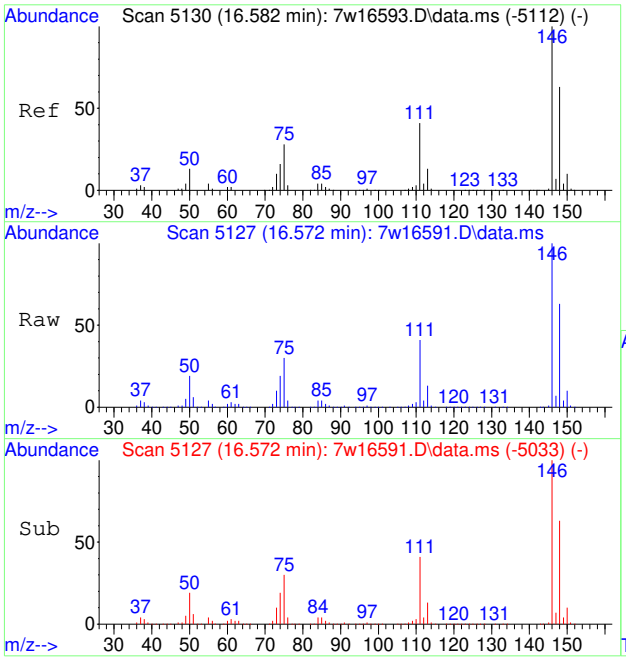


#97
BENZYL CHLORIDE
Concen: 20.31 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1043995

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	12.9	7.3	13.7

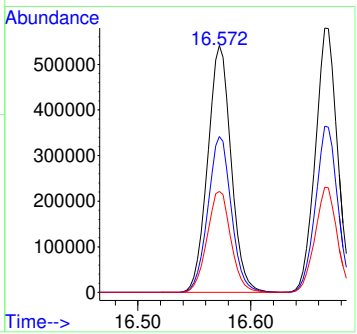


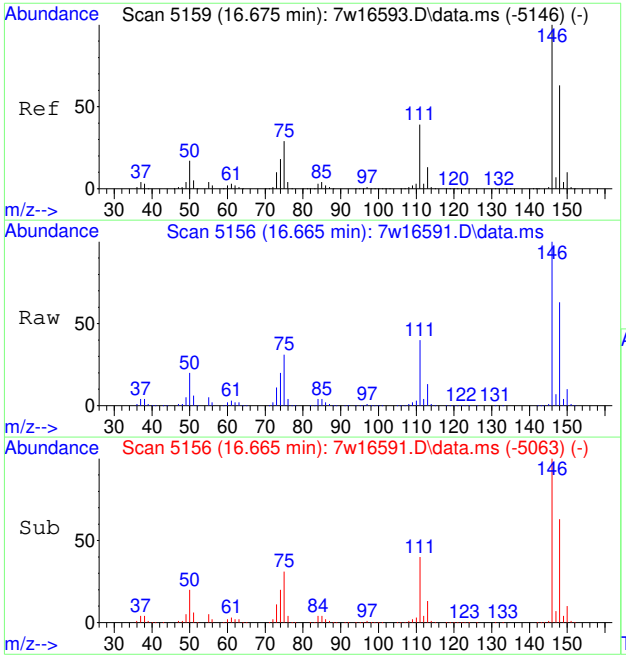


#98
M-DICHLOROBENZENE
Concen: 19.50 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 777553

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	41.5	25.4	47.2

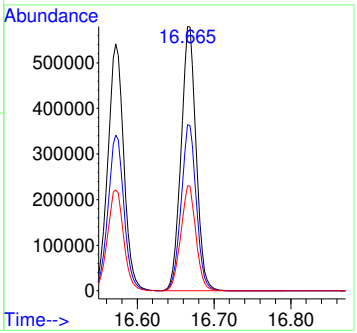


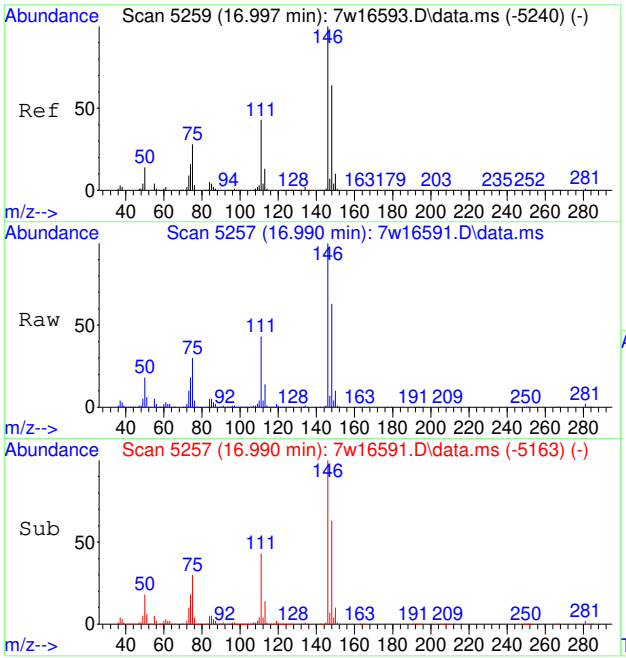


#99
P-DICHLOROBENZENE
Concen: 20.08 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 788870

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	39.8	24.8	46.1

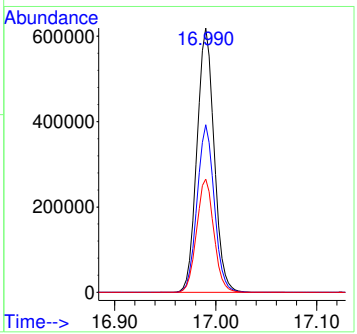


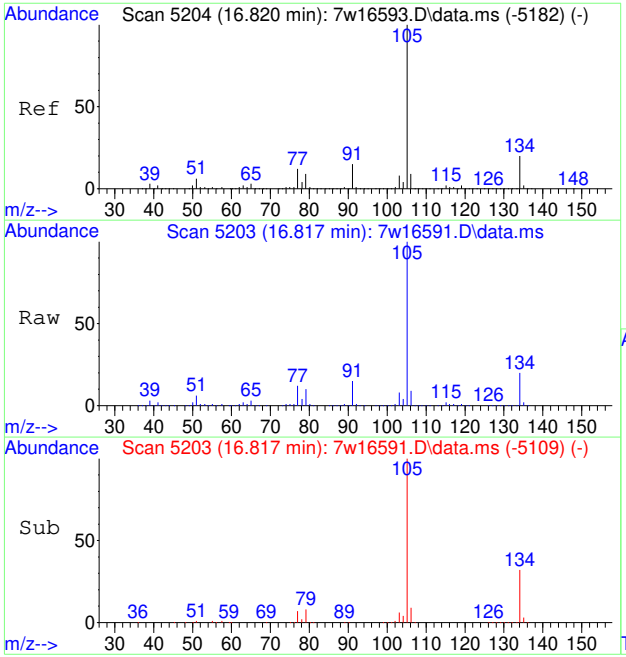


#100
O-DICHLOROBENZENE
Concen: 19.81 PPBV
RT: 16.990 min Scan# 5257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 731265

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	43.1	26.9	50.1

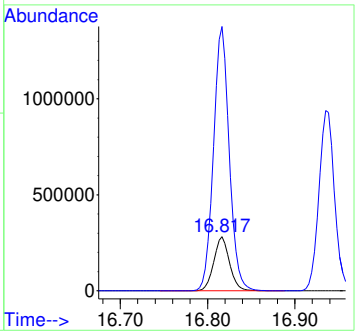


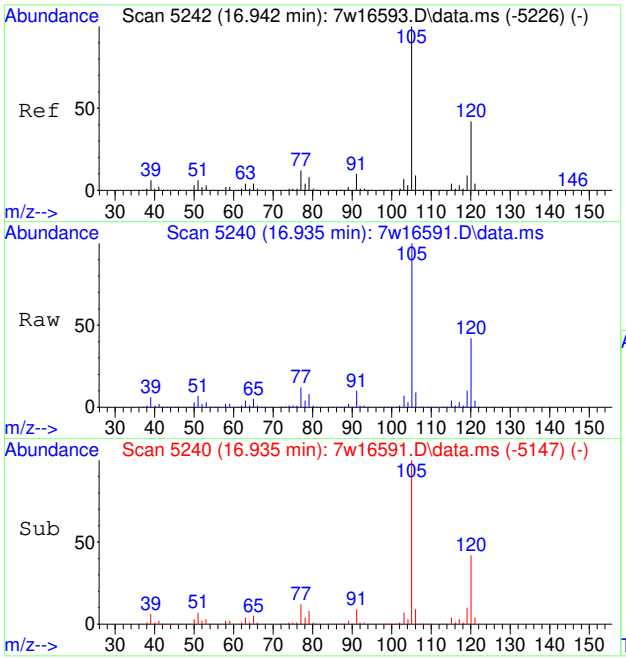


#101
SEC-BUTYLBENZENE
Concen: 20.47 PPBV
RT: 16.817 min Scan# 5203
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 351357

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

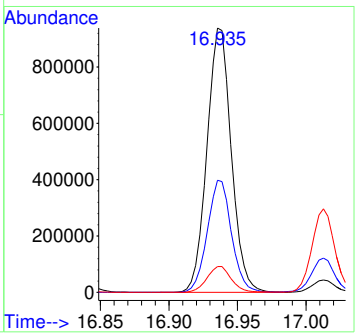


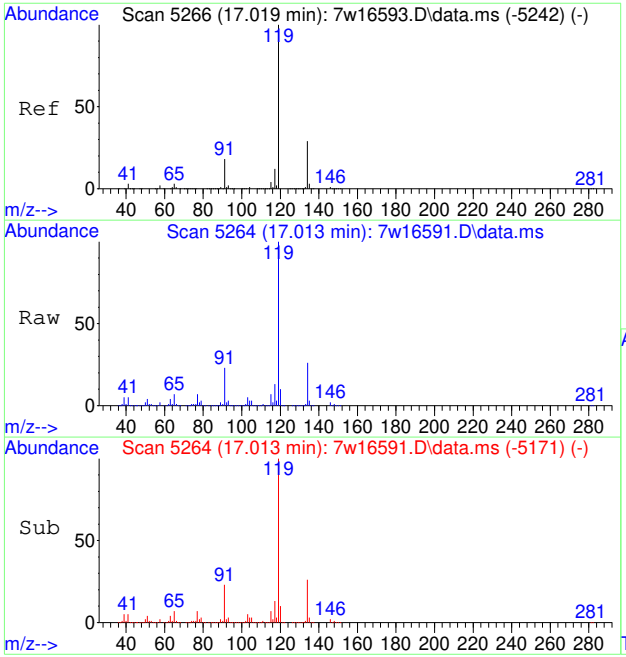


#102
1,2,3-TRIMETHYLBENZENE
Concen: 19.79 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1159850

Ion	Ratio	Lower	Upper
105	100		
120	42.2	31.9	59.2
91	9.9	7.3	13.5

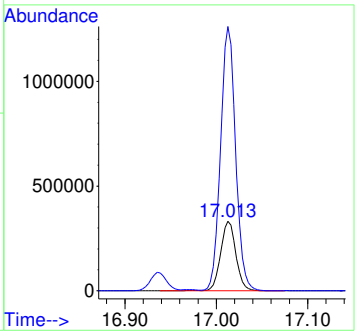


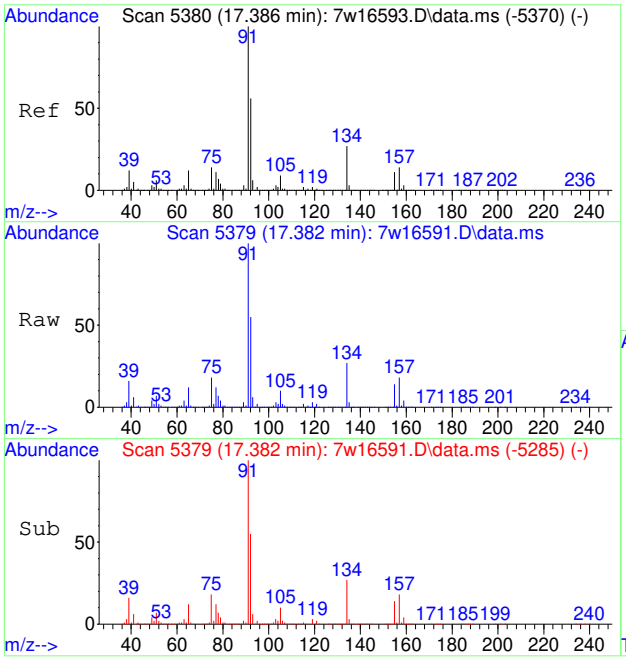


#103
P-ISOPROPYLTOLUENE
Concen: 19.97 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 385467

Ion	Ratio	Lower	Upper
134	100		
119	375.6	253.7	471.3

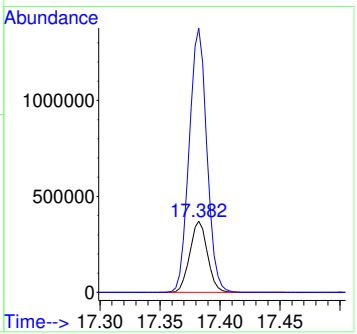


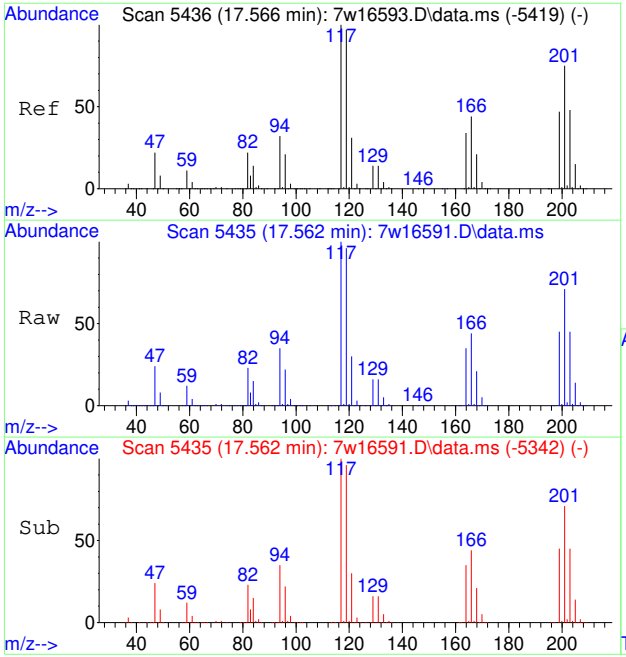


#104
N-BUTYLBENZENE
Concen: 20.40 PPBV
RT: 17.382 min Scan# 5379
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 378596

Ion	Ratio	Lower	Upper
134	100		
91	373.4	231.1	429.1

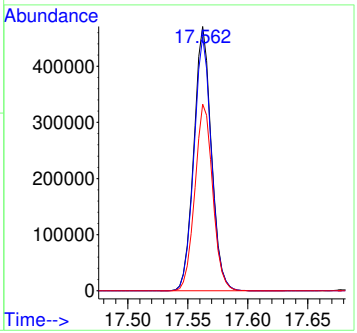


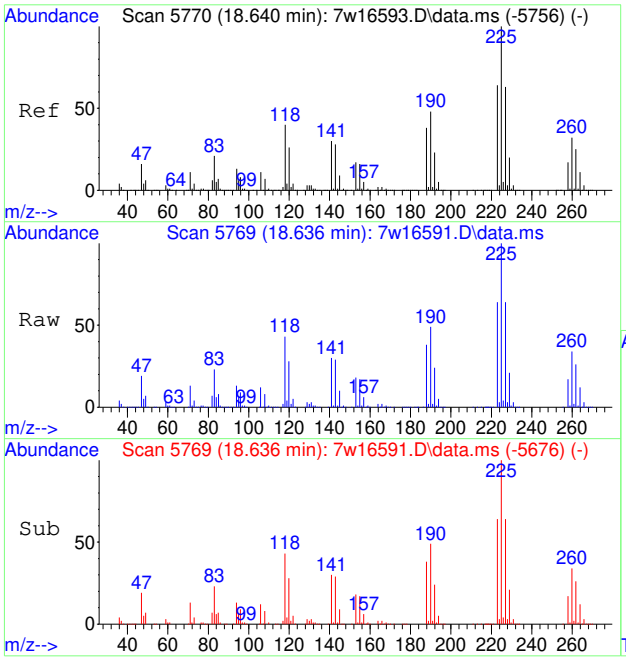


#105
HEXACHLOROETHANE
Concen: 20.73 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 477608

Ion	Ratio	Lower	Upper
117	100		
119	96.1	68.3	126.9
201	71.6	45.9	85.3

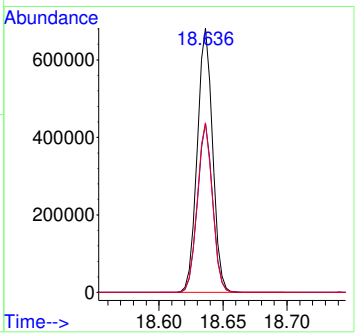


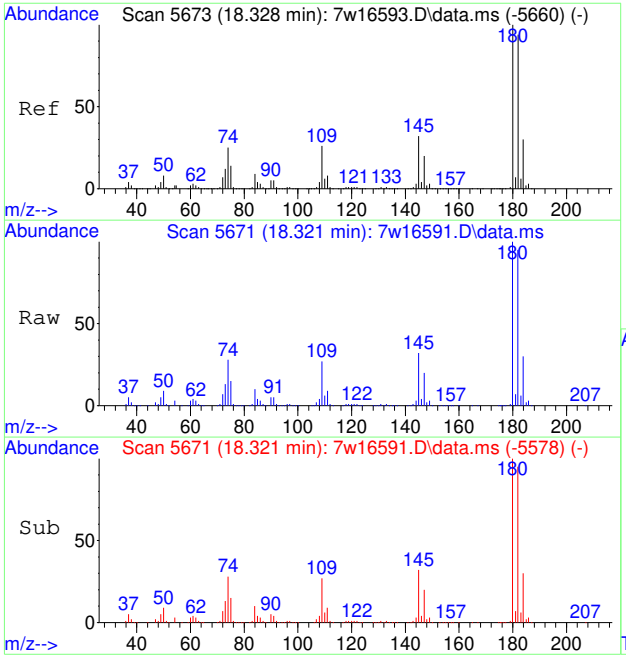


#106
HEXACHLOROBUTADIENE
Concen: 22.43 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:225 Resp: 568005

Ion	Ratio	Lower	Upper
225	100		
227	63.2	44.4	82.5
223	63.2	44.7	83.1

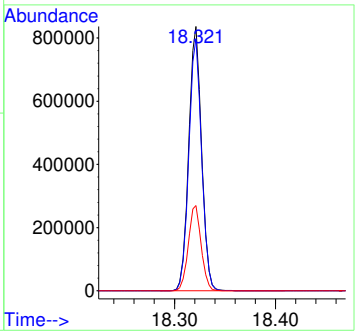


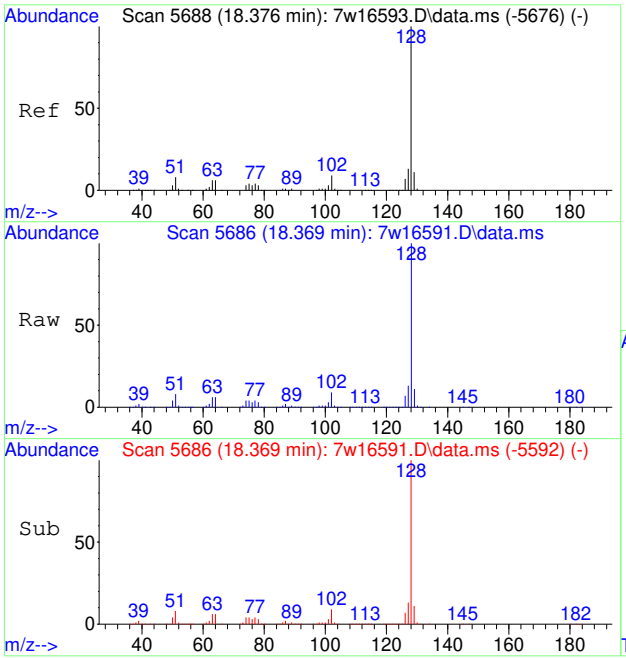


#107
1,2,4-TRICHLOROBENZENE
Concen: 22.61 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:180 Resp: 737709

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.4	23.1	42.9

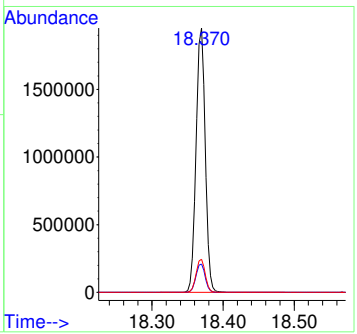


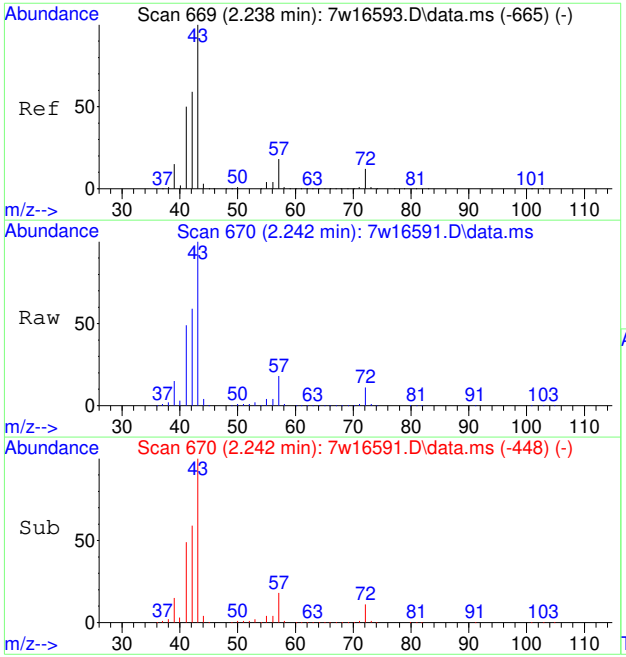


#108
NAPHTHALENE
Concen: 22.94 PPBV
RT: 18.369 min Scan# 5686
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:128 Resp: 1742340

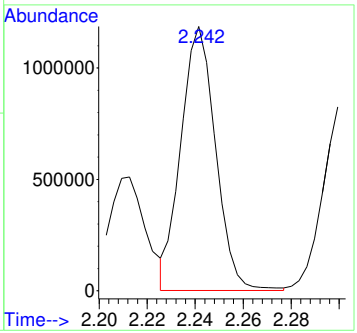
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.3	13.7
127	12.5	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 19.68 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:TIC Resp: 1188767



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16591.D
Injection Time: 08/07/25 13:47

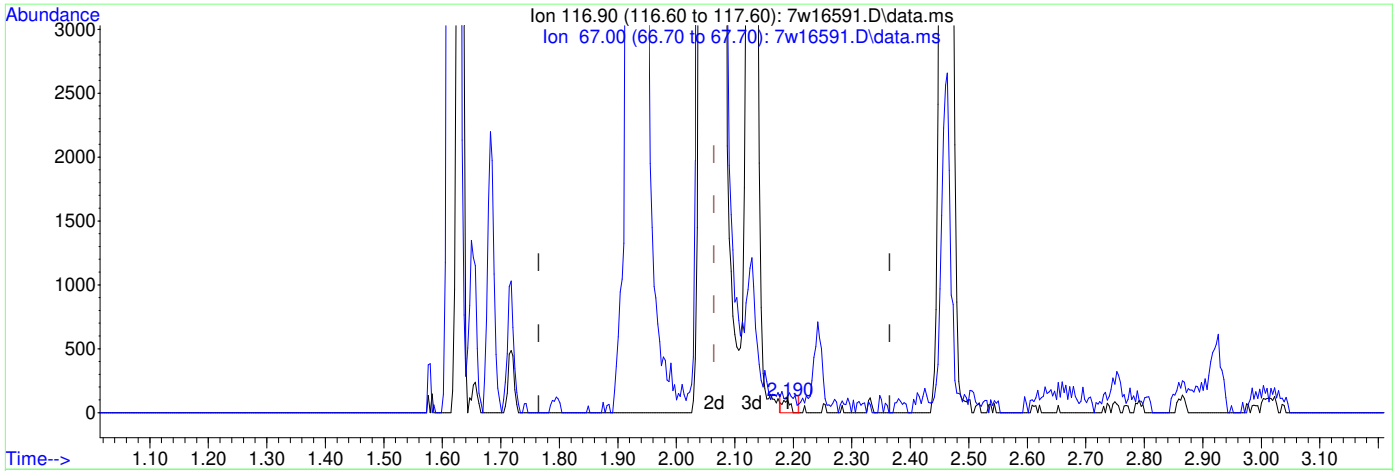
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

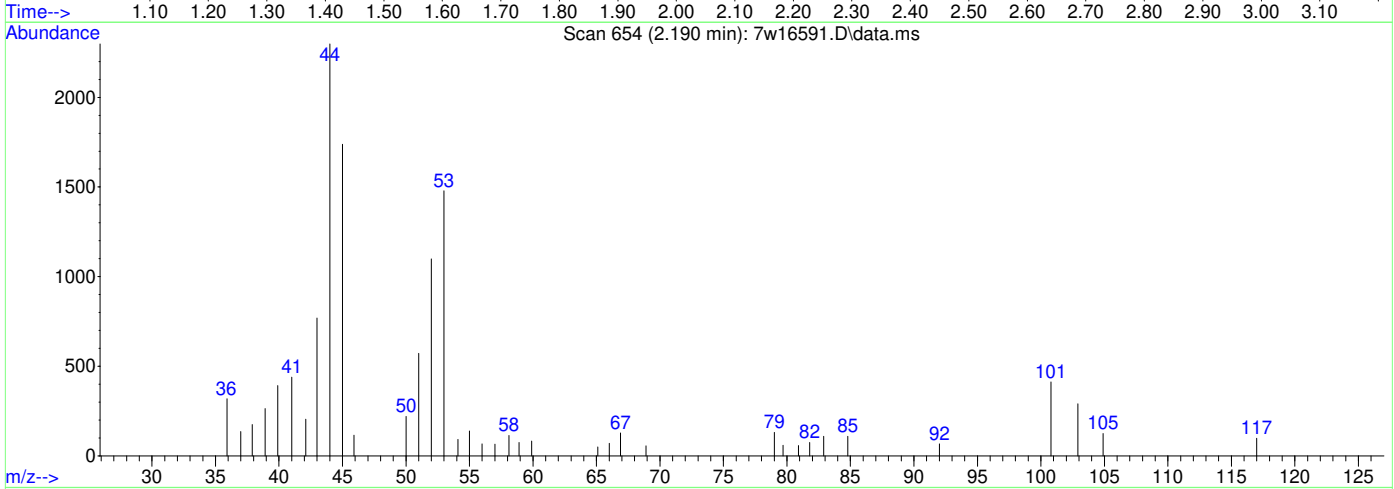
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Freon 123A	354-23-4		2.06	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.190min (+0.125) 0.01PPBV

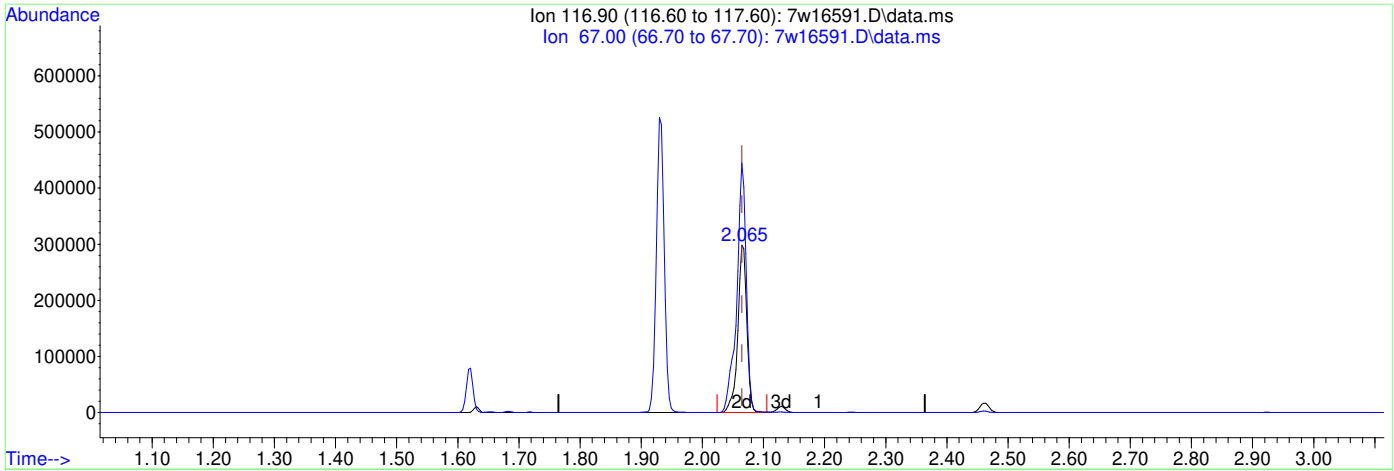
response 91

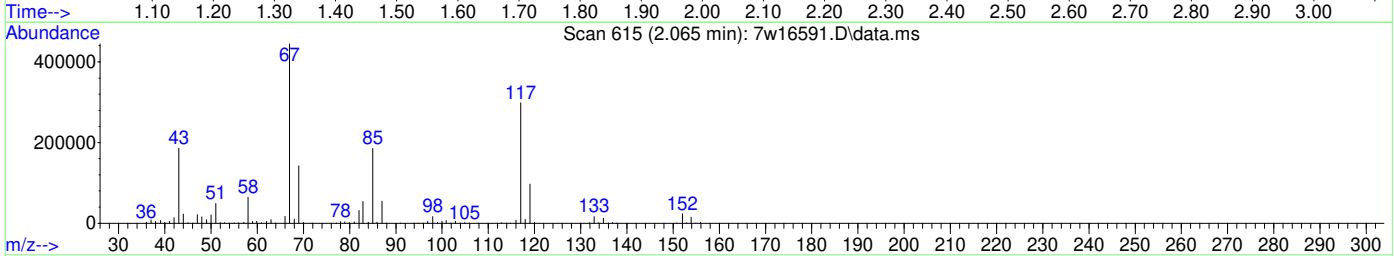
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	87.91
0.00	0.00	0.00
0.00	0.00	0.00

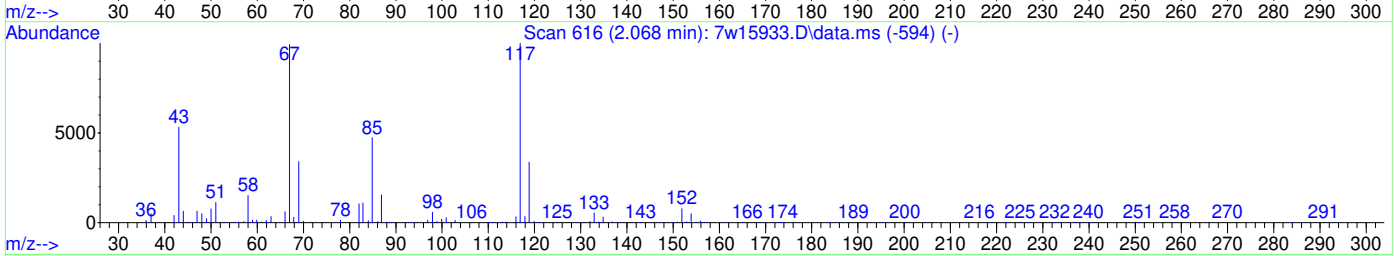
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.065min (+0.000) 19.66PPBV m

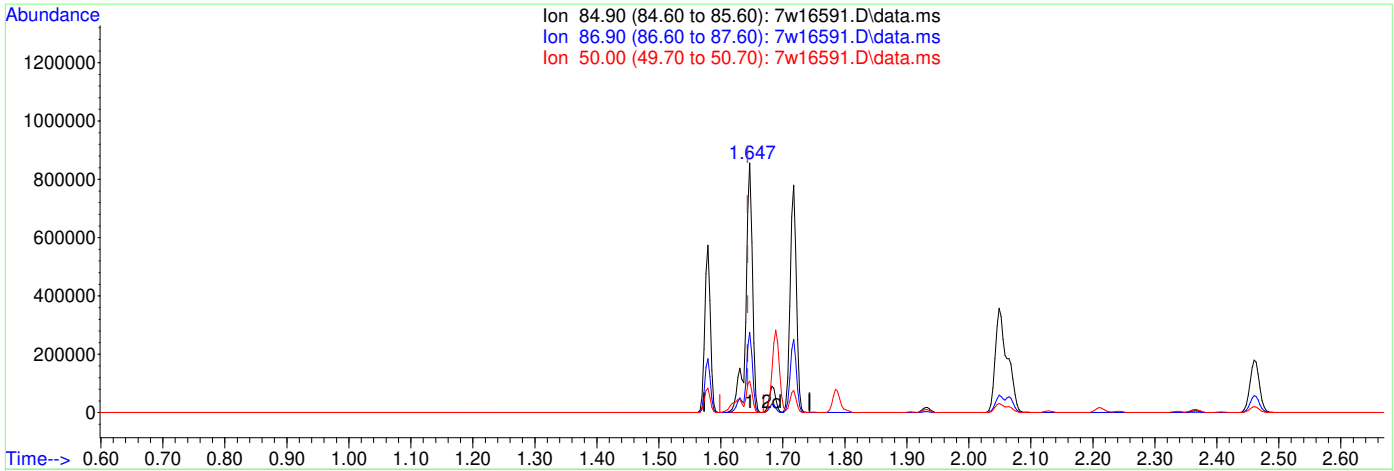
response 305527

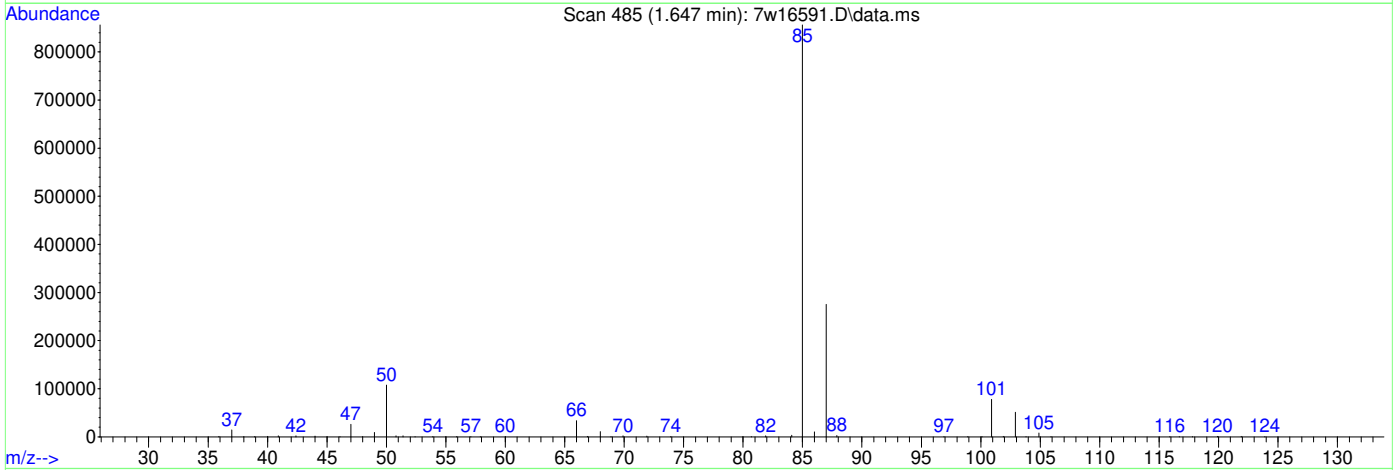
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	0.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 19.70PPBV

response 644952

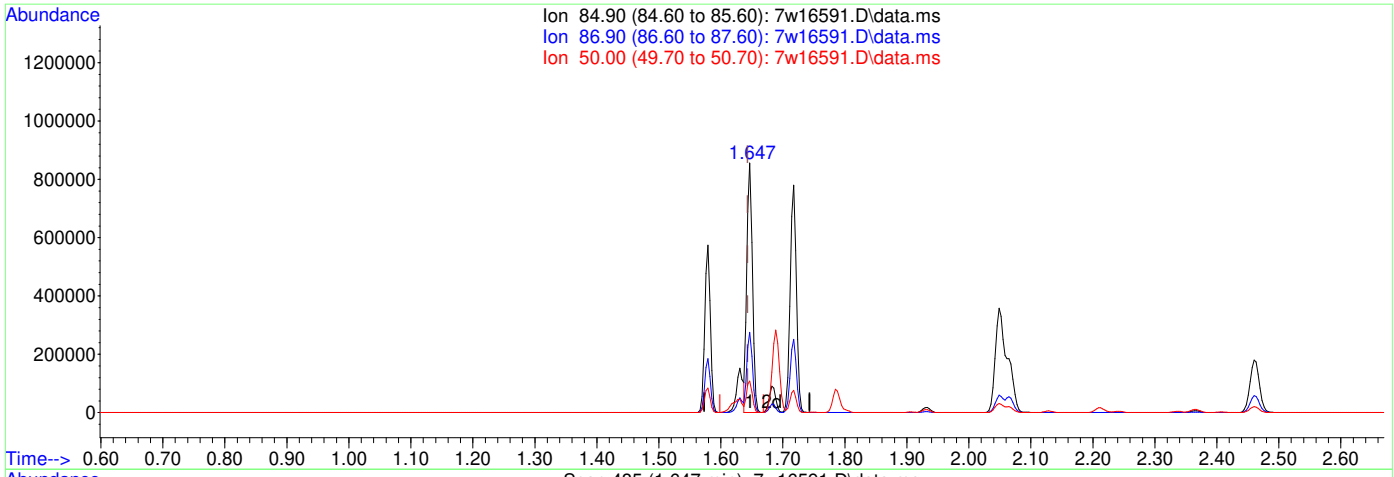
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.48
50.00	17.30	19.11
0.00	0.00	0.00

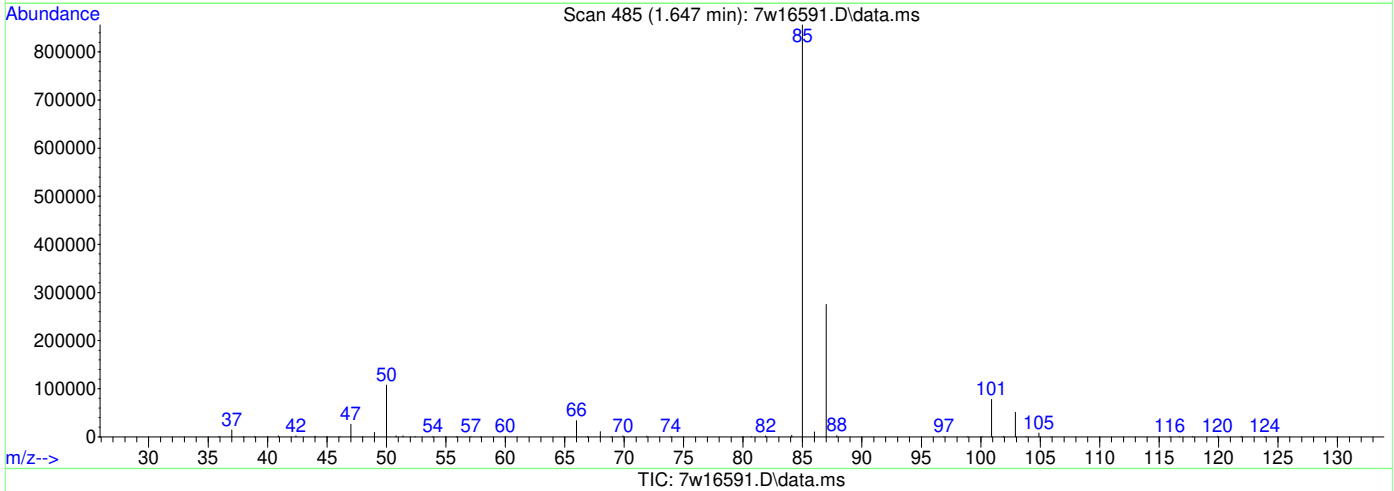
7W16591.D edits: DICHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 16.21PPBV m

response 530689

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.48
50.00	17.30	23.23#
0.00	0.00	0.00

7W16591.D edits: DICHLORODIFLUOROMETHANE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109851	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	546669	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	501897	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109805	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	410954	10.23	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	264206	37.90	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	119359	39.64	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.627	116	590023	41.37	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	1043482m	33.07	PPBV		
7) PROPYLENE	1.627	41	337148	36.84	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	920580	38.25	PPBV		99
9) FREON 114	1.714	85	1067029	38.99	PPBV		99
10) CHLOROMETHANE	1.685	52	141787	36.20	PPBV		95
11) VINYL CHLORIDE	1.746	62	502517	36.90	PPBV		99
12) 1,3-BUTADIENE	1.785	54	386481	35.40	PPBV		98
13) N-BUTANE	1.798	43	676218	36.22	PPBV		99
14) BROMOMETHANE	1.859	94	380493	35.73	PPBV		99
15) CHLOROETHANE	1.904	64	257541	34.46	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	910295	35.30	PPBV		100
17) ACETONITRILE	1.994	41	384504	28.62	PPBV		100
18) ACROLEIN	2.033	56	220730	35.64	PPBV		99
19) FREON 123	2.049	83	996862	38.68	PPBV		100
20) FREON 123A	2.065	117	586604	38.26	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1049426	35.69	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	888452	34.78	PPBV		100
23) ACETONE	2.071	58	248365	35.92	PPBV		96
24) PENTANE	2.238	42	472130	34.15	PPBV		100
25) IODOMETHANE	2.299	142	1038259	38.79	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	419658	37.54	PPBV		98
27) CARBON DISULFIDE	2.463	76	1201974	37.99	PPBV		97
28) ETHANOL	1.930	45	213512	31.01	PPBV		100
29) BROMOETHENE	2.004	106	389718	36.91	PPBV		100
30) ACRYLONITRILE	2.209	52	360634	37.39	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	378529	33.80	PPBV		95
32) 3-CHLOROPROPENE	2.406	76	219238	36.95	PPBV		95
33) FREON 113	2.460	151	643045	38.50	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	441405	35.87	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.335	59	985604	31.02	PPBV		100
36) METHYL TERTIARY BUTYL ...	2.791	73	1301474	37.36	PPBV		100
37) TETRAHYDROFURAN	3.463	72	204769	36.97	PPBV		98
38) HEXANE	3.242	57	870000	36.93	PPBV		97
39) VINYL ACETATE	2.830	86	130550	40.25	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	876273	37.13	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	232500	36.08	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	476500	37.74	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	251965	37.93	PPBV		92
44) ETHYL ACETATE	3.251	61	179704	40.87	PPBV		88
45) METHYL ACRYLATE	3.238	55	1081547	38.25	PPBV	#	100
46) CHLOROFORM	3.264	83	920953	37.55	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	1014851	38.86	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.824	97	979950	38.31	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1037151	39.82	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	713561	37.86	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.129	78	1384237	36.79	PPBV		99
53)	CYCLOHEXANE	4.335	84	620038	38.40	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.586	71	325381	40.82	PPBV		100
55)	TRICHLOROETHENE	5.016	95	627429	36.24	PPBV		100
56)	1,2-DICHLOROPROPANE	4.785	63	583236	38.36	PPBV		100
57)	DIBROMOMETHANE	4.746	174	542289	36.49	PPBV		99
58)	ETHYL ACRYLATE	4.904	55	1354109	40.04	PPBV		100
59)	BROMODICHLOROMETHANE	4.965	83	1056193	38.42	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	2697169	35.45	PPBV		100
61)	1,4-DIOXANE	5.023	88	307098m	38.33	PPBV		
62)	HEPTANE	5.422	43	919337	36.76	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	535566	38.93	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.042	58	535813	35.65	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	931150	41.03	PPBV		98
66)	TOLUENE	7.135	91	1737506	39.79	PPBV		100
67)	1,3-DICHLOROPROPANE	7.196	76	888887	40.85	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	837419	41.75	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.769	83	506821	41.21	PPBV		99
70)	2-HEXANONE	7.698	58	721391	33.68	PPBV		98
71)	ETHYL METHACRYLATE	7.836	69	919855	40.41	PPBV		97
72)	TETRACHLOROETHENE	8.849	164	647021	40.75	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.666	129	1078202	44.36	PPBV		100
74)	1,2-DIBROMOETHANE	8.007	107	940297	41.96	PPBV		100
75)	OCTANE	9.000	43	1299991	39.19	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.064	131	780177	43.93	PPBV		100
78)	CHLOROBENZENE	10.052	112	1423127	41.32	PPBV		99
79)	ETHYLBENZENE	10.929	91	2363041	41.92	PPBV		100
80)	M,P-XYLENE	11.357	91	3630117	78.82	PPBV		99
81)	O-XYLENE	12.289	91	1842699	41.40	PPBV		98
82)	STYRENE	12.077	104	1452853	44.73	PPBV		99
83)	NONANE	13.412	43	1380586	39.45	PPBV		99
84)	BROMOFORM	11.167	173	961757	47.95	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	12.306	83	1339122	42.27	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.585	75	1047163	42.19	PPBV		100
88)	ISOPROPYLBENZENE	13.797	120	695388	41.27	PPBV		99
89)	BROMOBENZENE	13.666	77	1318537	40.55	PPBV		100
90)	2-CHLOROTOLUENE	14.794	126	639043	41.17	PPBV		100
91)	N-PROPYLBENZENE	15.135	120	740280	42.04	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	2747294	42.04	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.852	105	2286498	41.87	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.177	118	1155488	43.69	PPBV		100
95)	TERT-BUTYLBENZENE	16.505	134	554595	41.12	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.514	105	2336862	43.35	PPBV		100
97)	BENZYL CHLORIDE	16.608	91	2115310	52.85	PPBV		99
98)	M-DICHLOROBENZENE	16.575	146	1509487	40.35	PPBV		99
99)	P-DICHLOROBENZENE	16.672	146	1527061	41.45	PPBV		100
100)	O-DICHLOROBENZENE	16.993	146	1428015	41.29	PPBV		99
101)	SEC-BUTYLBENZENE	16.820	134	675130	42.40	PPBV		100
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2270987	41.87	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.016	134	742541	42.05	PPBV		100
104)	N-BUTYLBENZENE	17.386	134	743410	45.09	PPBV		99
105)	HEXACHLOROETHANE	17.566	117	951757	47.76	PPBV		99
106)	HEXACHLOROBUTADIENE	18.640	225	1162376	48.46	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.325	180	1534367	56.96	PPBV		99
108)	NAPHTHALENE	18.373	128	3606459	60.99	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	2205824	32.90	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

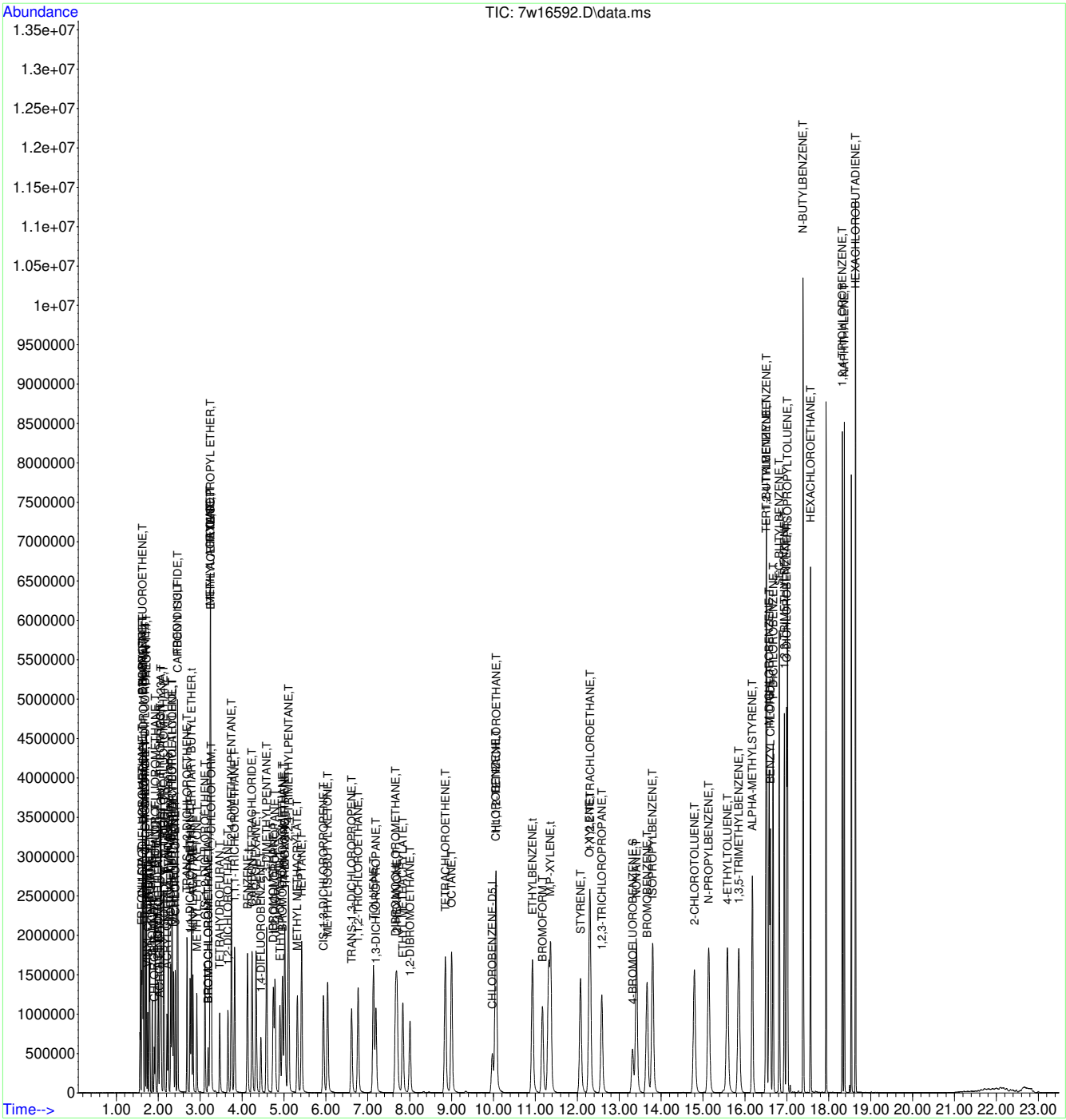
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

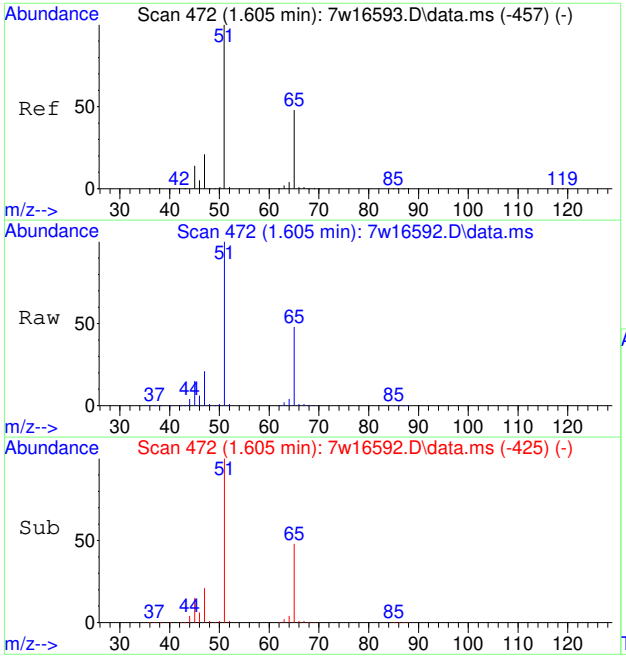
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

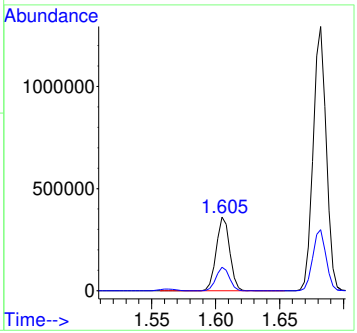


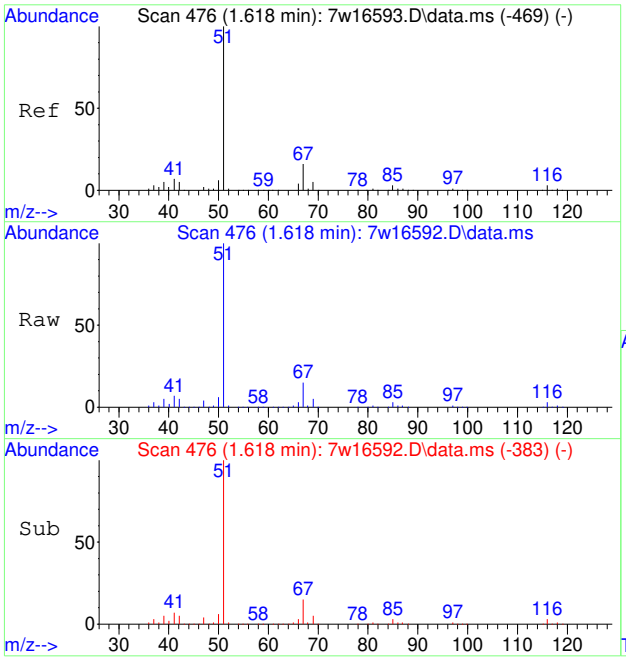


#3
FREON 152A
Concen: 37.90 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 264206

Ion	Ratio	Lower	Upper
65	100		
45	31.8	23.0	42.8

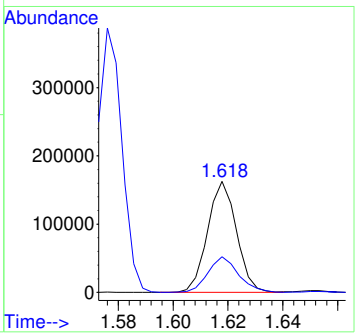


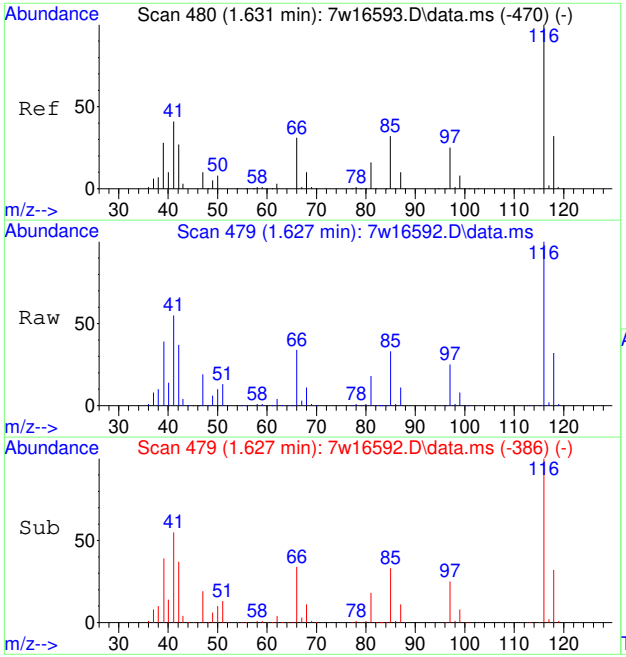


#4
CHLORODIFLUOROMETHANE
Concen: 39.64 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 119359

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

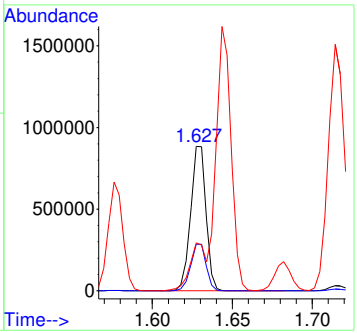


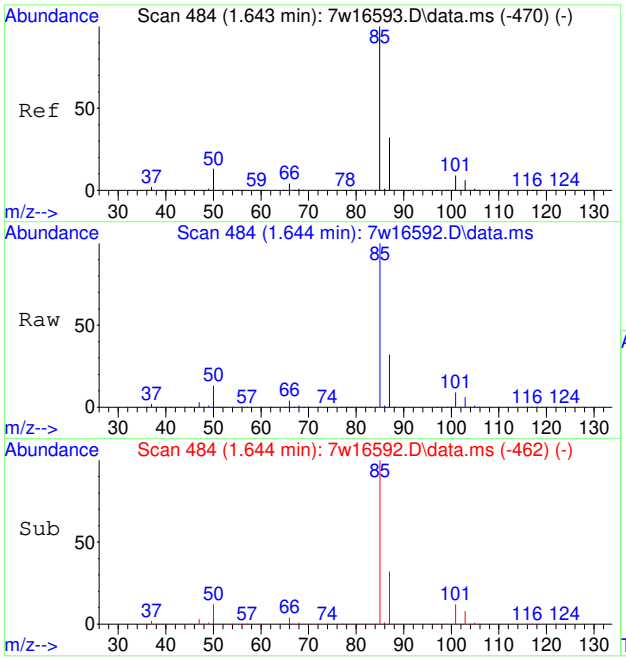


#5
CHLOROTRIFLUOROETHENE
Concen: 41.37 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:116 Resp: 590023

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.6	42.0
85	211.8	152.4	283.0

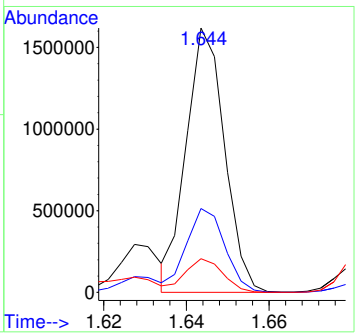


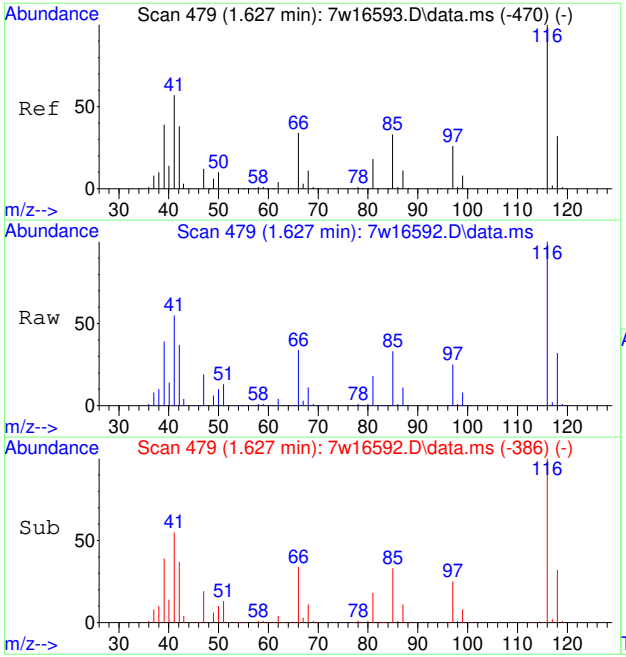


#6
DICHLORODIFLUOROMETHANE
Concen: 33.07 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1043482

Ion	Ratio	Lower	Upper
85	100		
87	38.5	23.0	42.6
50	22.4	13.5	25.1

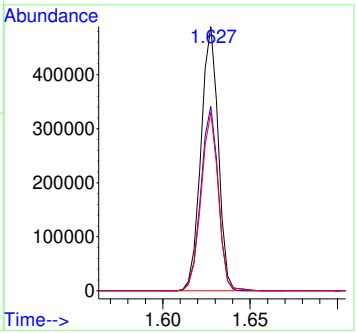


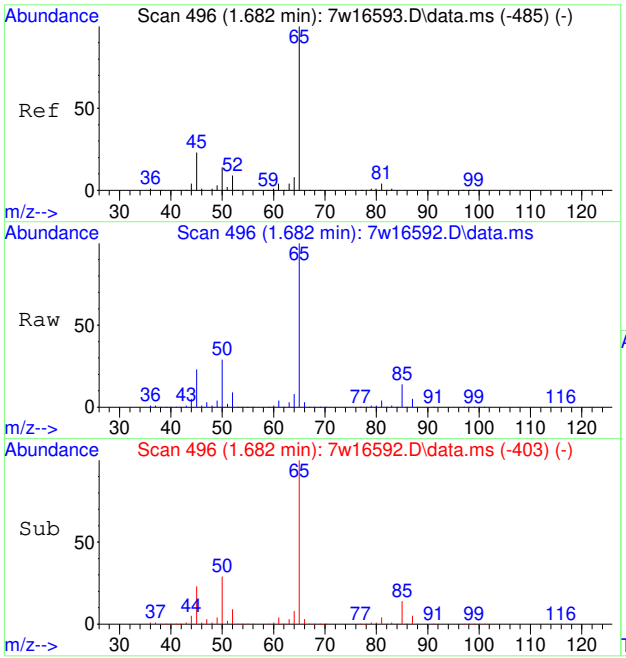


#7
PROPYLENE
Concen: 36.84 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 337148

Ion	Ratio	Lower	Upper
41	100		
39	69.6	50.5	93.7
42	66.9	47.0	87.4

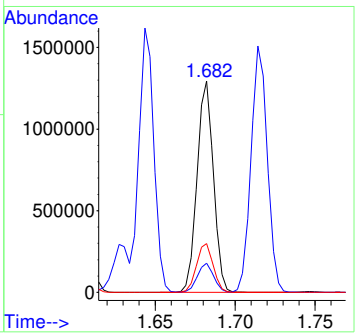


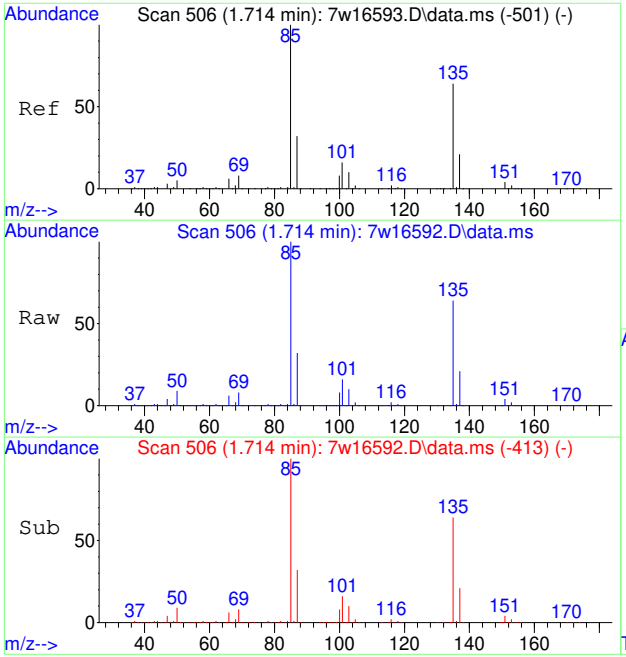


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 38.25 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 920580

Ion	Ratio	Lower	Upper
65	100		
85	13.7	9.4	17.4
45	23.4	16.9	31.3

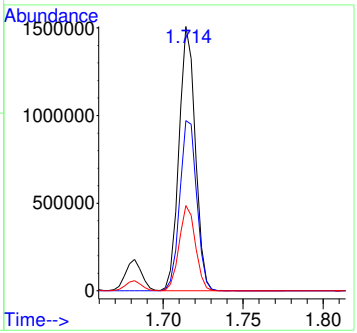


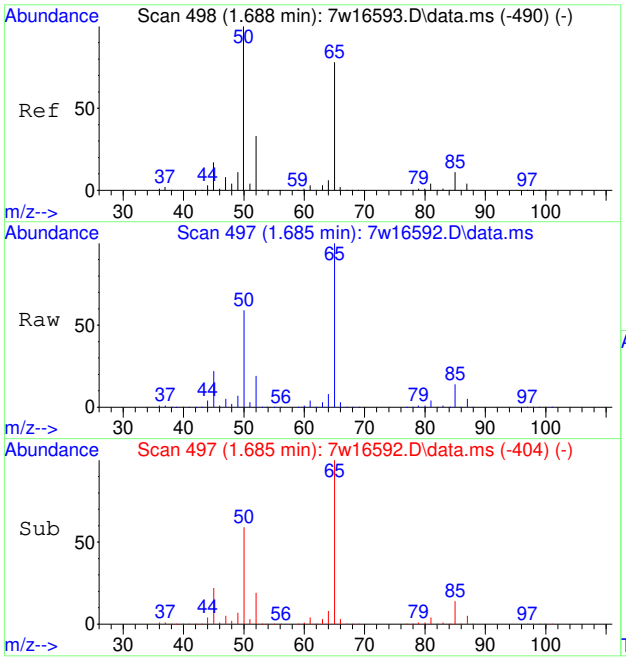


#9
FREON 114
Concen: 38.99 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1067029

Ion	Ratio	Lower	Upper
85	100		
135	66.8	46.1	85.7
87	32.1	22.6	42.0

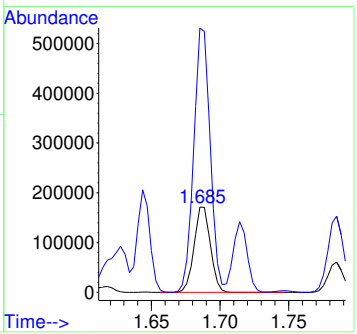


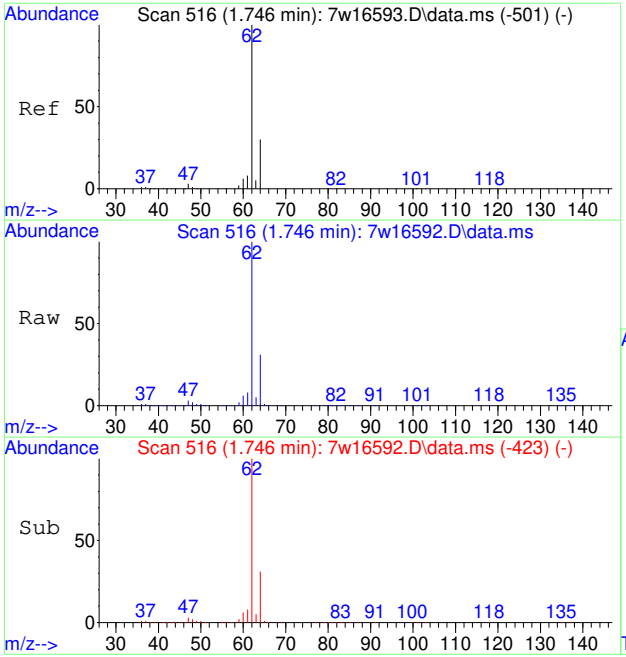


#10
CHLOROMETHANE
Concen: 36.20 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 141787

Ion	Ratio	Lower	Upper
52	100		
50	311.9	225.6	419.0

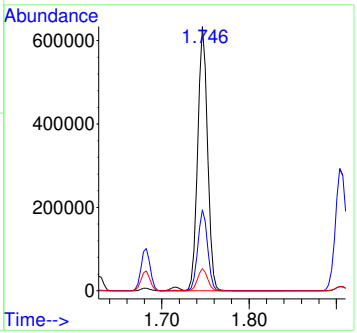


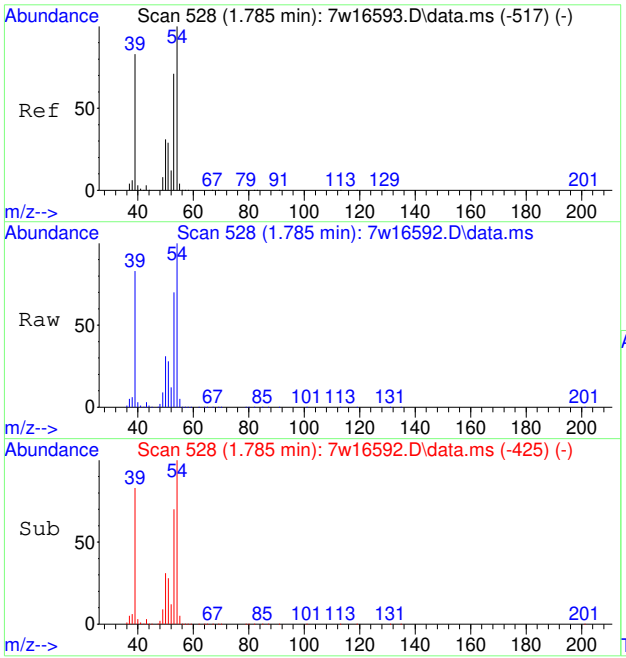


#11
VINYL CHLORIDE
Concen: 36.90 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 502517

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.3	5.7	10.5

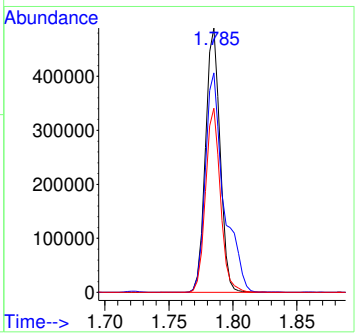


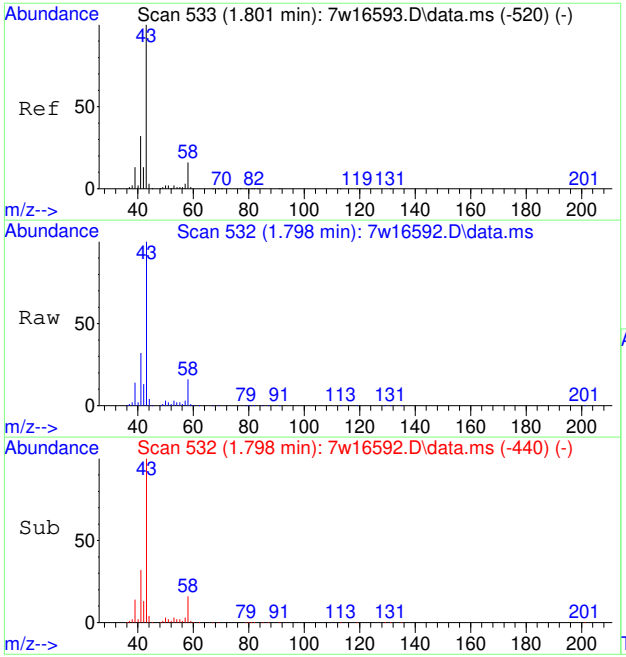


#12
1,3-BUTADIENE
Concen: 35.40 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 54 Resp: 386481

Ion	Ratio	Lower	Upper
54	100		
39	105.3	78.4	138.4
53	71.4	40.9	100.9

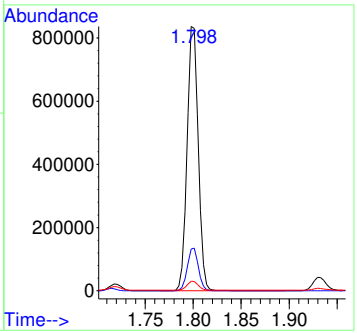


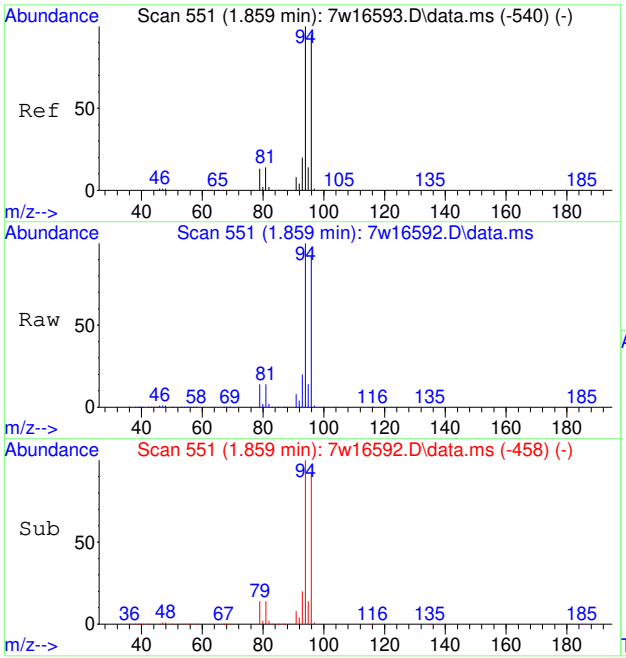


#13
N-BUTANE
Concen: 36.22 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 676218

Ion	Ratio	Lower	Upper
43	100		
58	16.0	11.0	20.4
44	3.5	2.6	4.8

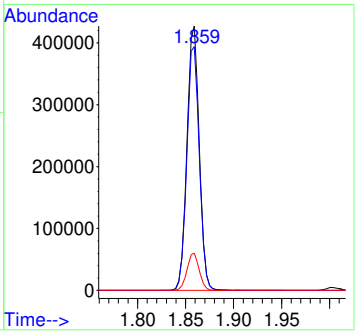


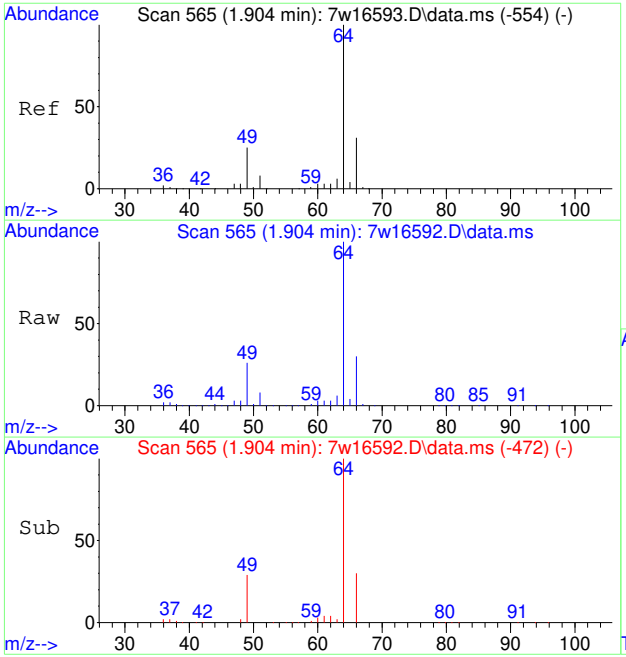


#14
BROMOMETHANE
Concen: 35.73 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 94 Resp: 380493

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	14.0	9.9	18.3

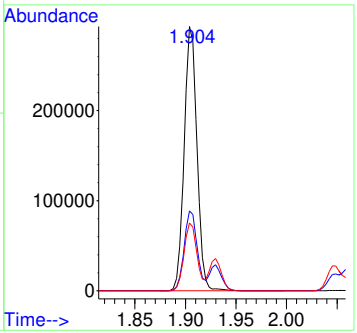


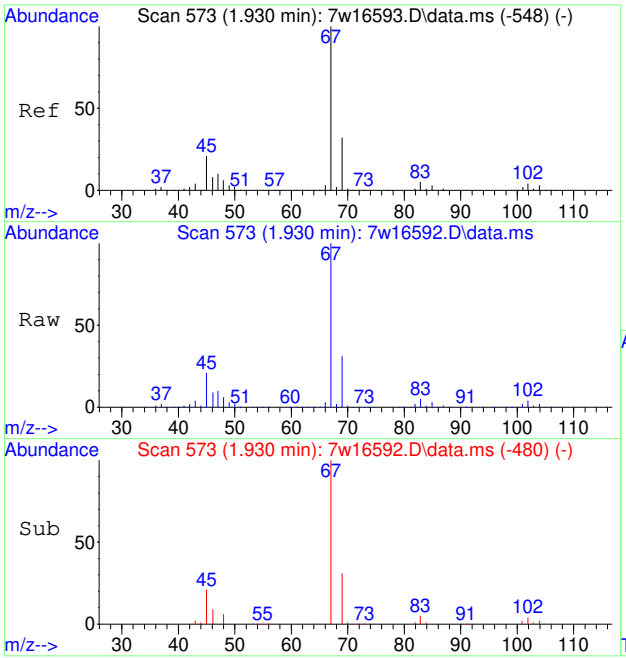


#15
CHLOROETHANE
Concen: 34.46 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 64 Resp: 257541

Ion	Ratio	Lower	Upper
64	100		
66	31.1	21.5	39.9
49	26.6	19.0	35.4

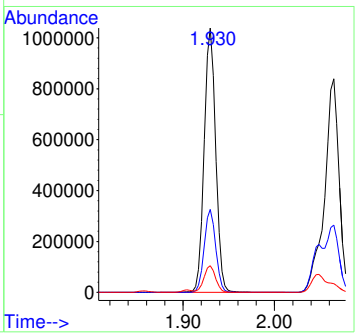


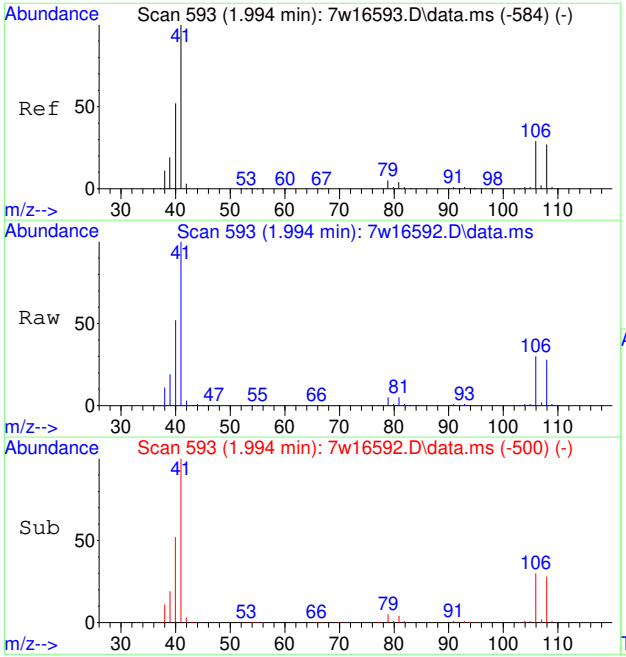


#16
DICHLOROFLUOROMETHANE
Concen: 35.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 910295

Ion	Ratio	Lower	Upper
67	100		
69	31.4	21.8	40.6
47	11.0	8.0	14.8

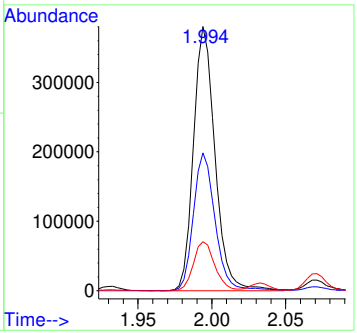


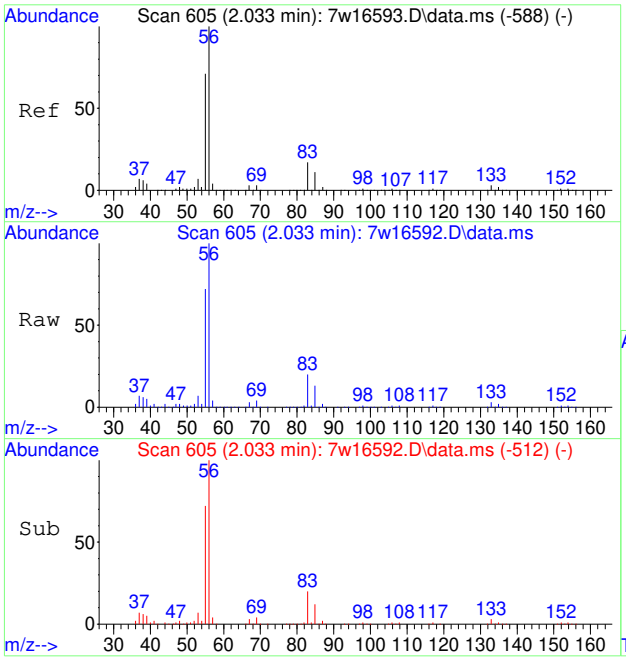


#17
ACETONITRILE
Concen: 28.62 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 384504

Ion	Ratio	Lower	Upper
41	100		
40	52.6	36.7	68.1
39	18.4	13.1	24.3

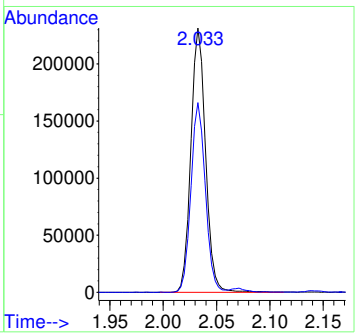


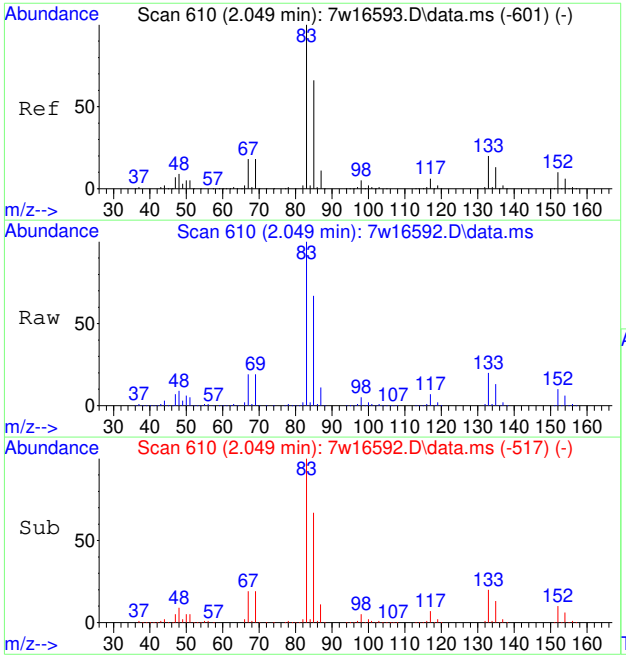


#18
ACROLEIN
Concen: 35.64 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 56 Resp: 220730

Ion	Ratio	Lower	Upper
56	100		
55	70.7	48.9	90.7

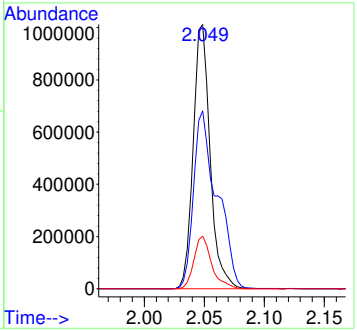


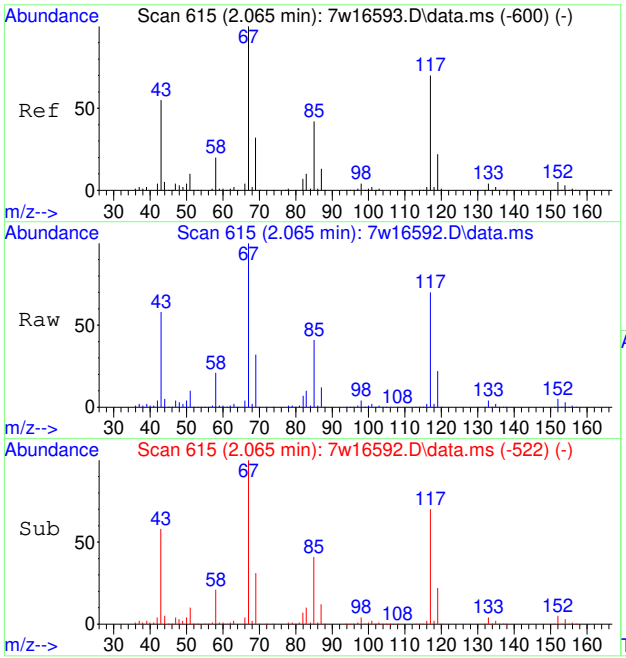


#19
FREON 123
Concen: 38.68 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 996862

Ion	Ratio	Lower	Upper
83	100		
85	93.1	64.9	120.5
133	20.9	14.7	27.3

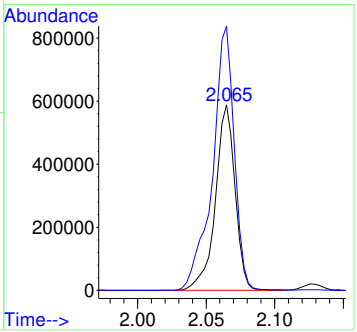


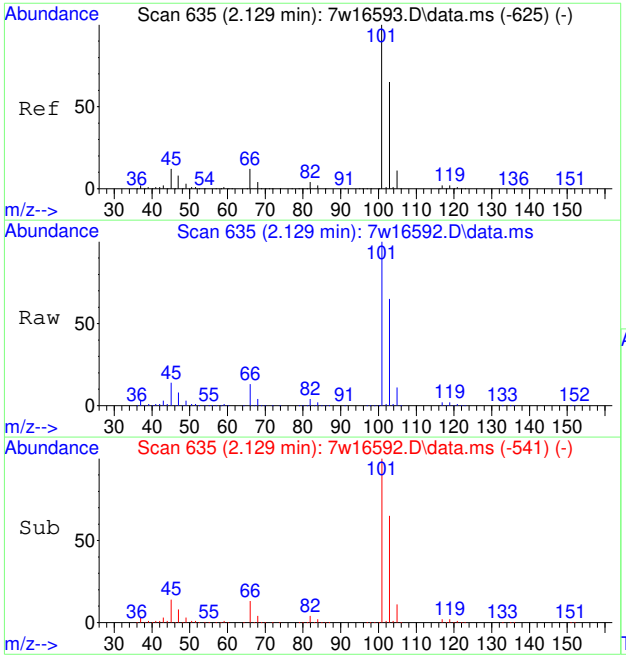


#20
FREON 123A
Concen: 38.26 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 586604

Ion	Ratio	Lower	Upper
117	100		
67	157.9	111.3	206.7

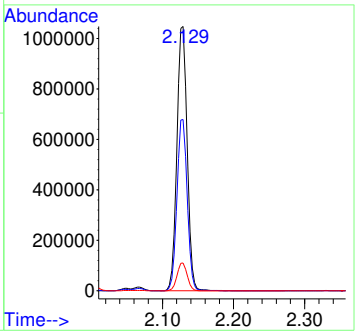


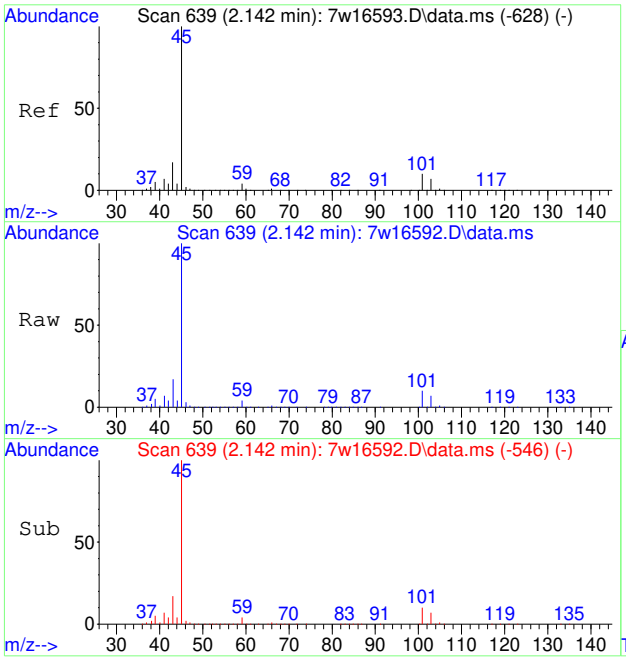


#21
TRICHLOROFLUOROMETHANE
Concen: 35.69 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:101 Resp: 1049426

Ion	Ratio	Lower	Upper
101	100		
103	64.8	45.2	84.0
105	10.5	7.3	13.5

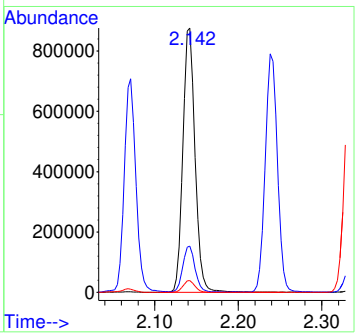


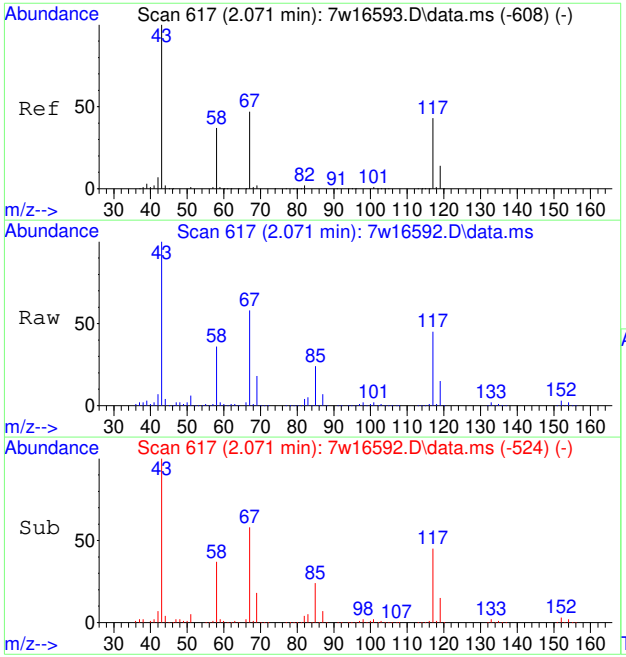


#22
ISOPROPYL ALCOHOL
Concen: 34.78 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 888452

Ion	Ratio	Lower	Upper
45	100		
43	17.7	12.5	23.3
59	4.5	3.1	5.7

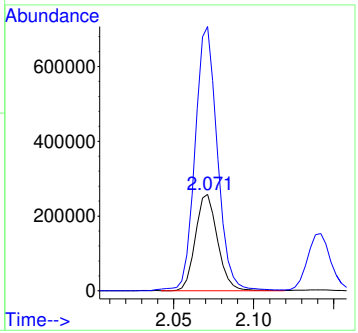


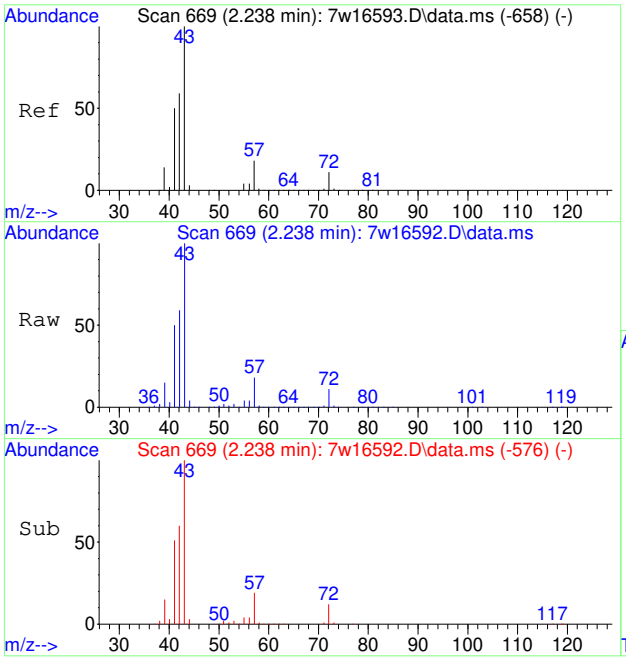


#23
ACETONE
Concen: 35.92 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 248365

Ion	Ratio	Lower	Upper
58	100		
43	276.2	198.6	368.8

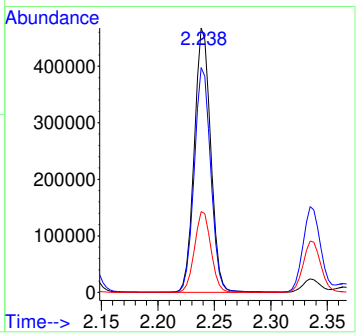


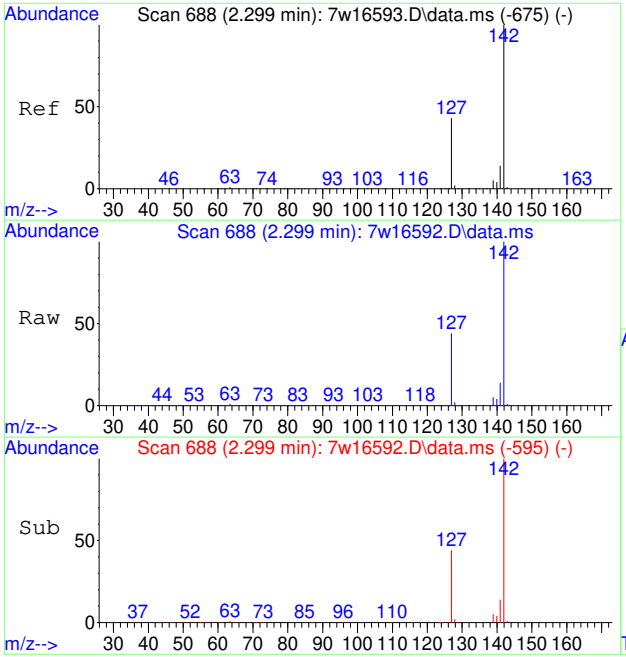


#24
PENTANE
Concen: 34.15 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 42 Resp: 472130

Ion	Ratio	Lower	Upper
42	100		
41	85.2	59.8	111.0
57	30.5	21.1	39.1

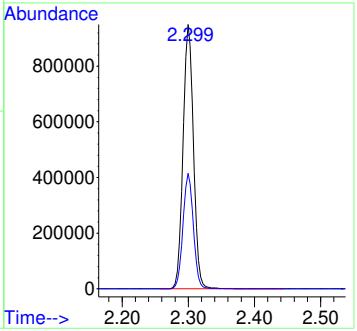


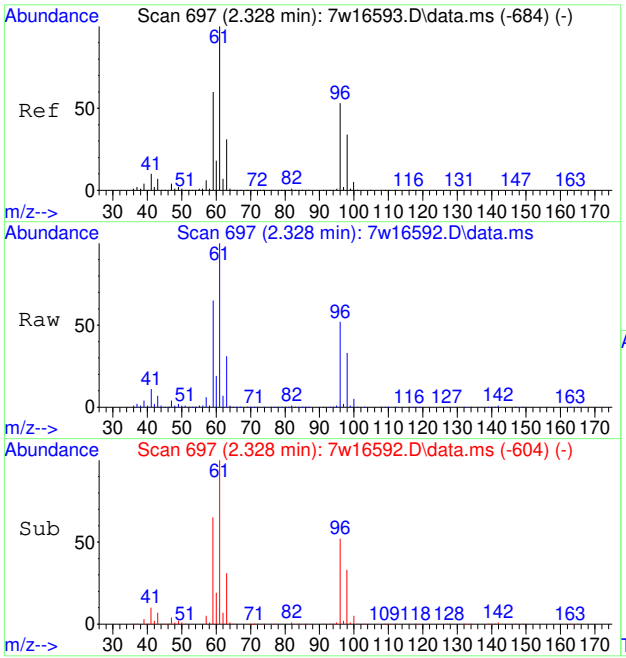


#25
IODOMETHANE
Concen: 38.79 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:142 Resp: 1038259

Ion	Ratio	Lower	Upper
142	100		
127	43.6	30.6	56.8

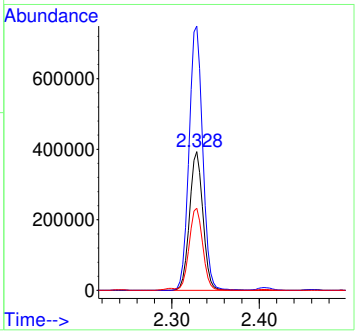


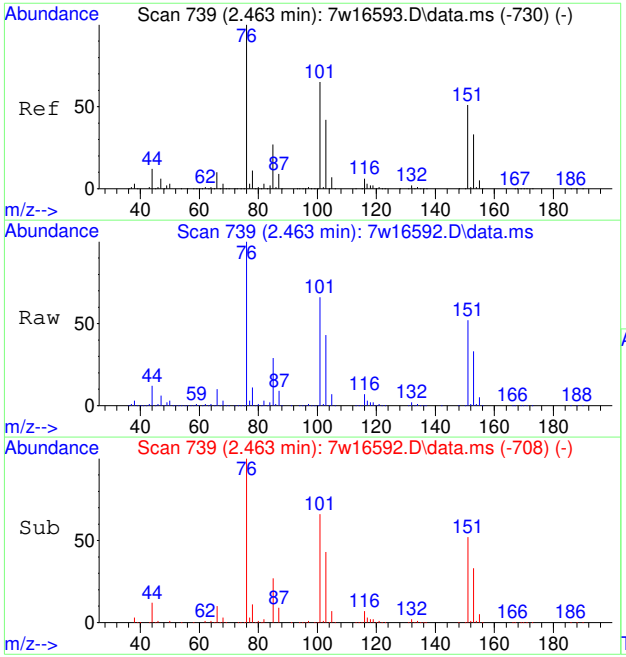


#26
1,1-DICHLOROETHYLENE
Concen: 37.54 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 419658

Ion	Ratio	Lower	Upper
96	100		
61	193.7	138.3	256.8
63	61.5	44.2	82.0

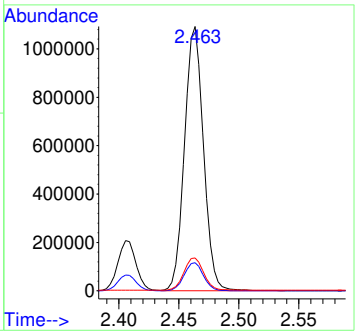


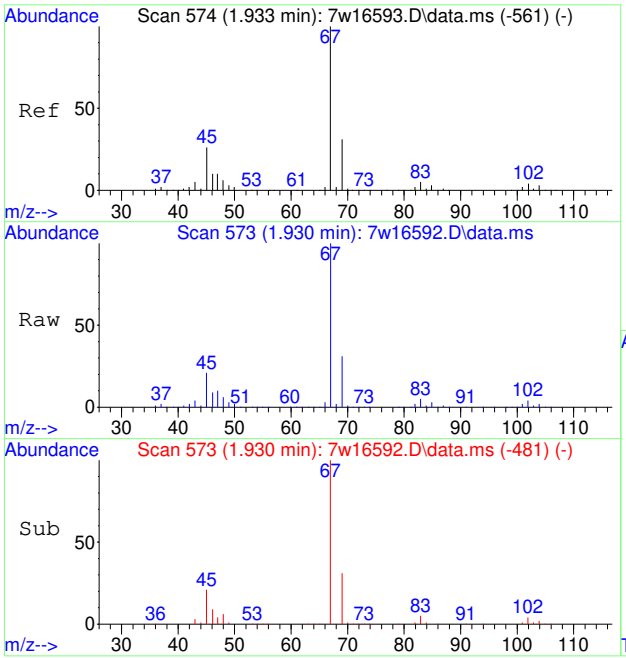


#27
CARBON DISULFIDE
Concen: 37.99 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 1201974

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.8	10.2	19.0

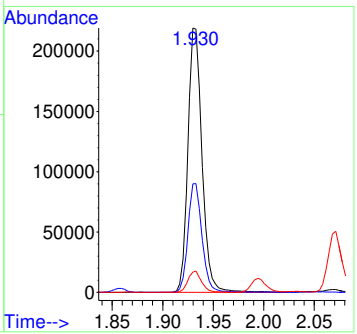


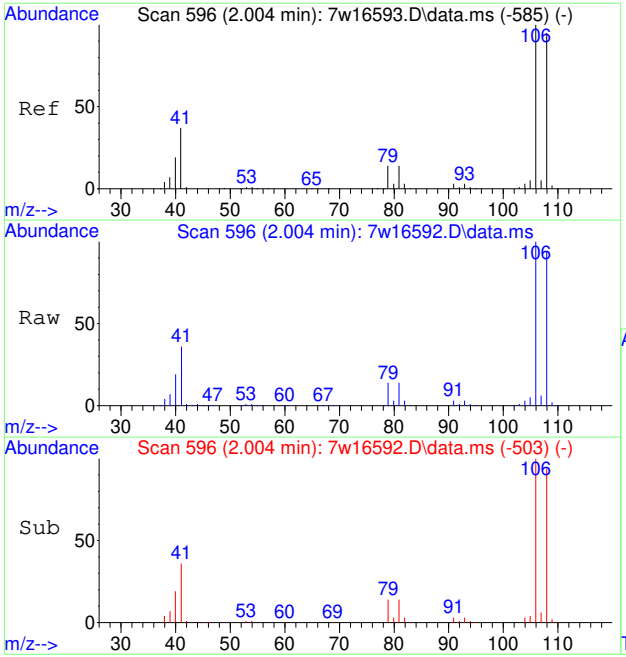


#28
ETHANOL
Concen: 31.01 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 213512

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.9	5.7	10.5

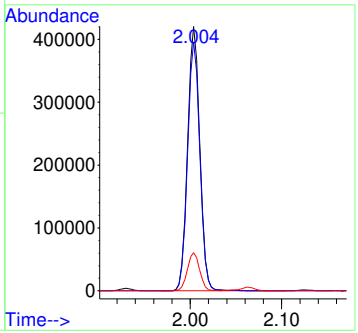


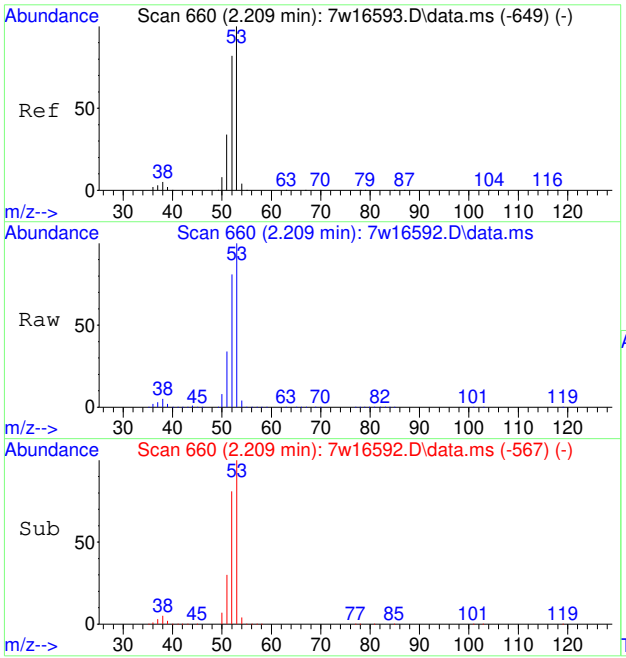


#29
BROMOETHENE
Concen: 36.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:106 Resp: 389718

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.5	10.6	19.8

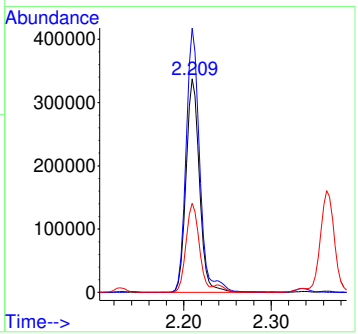


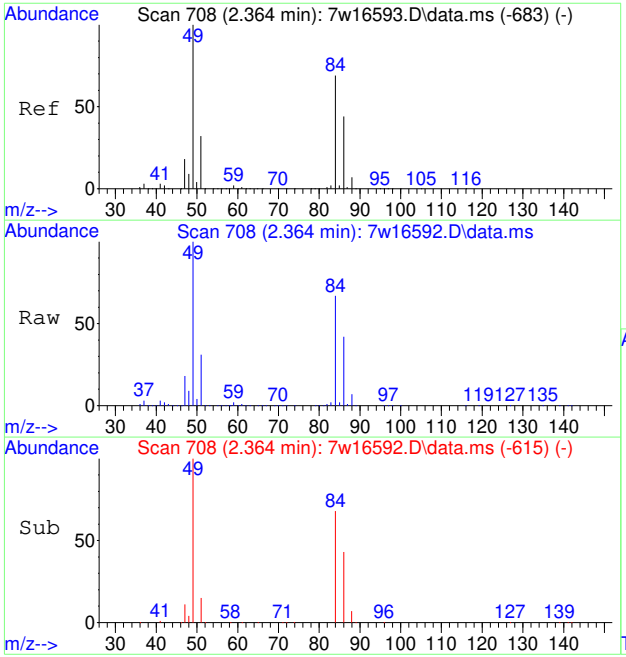


#30
ACRYLONITRILE
Concen: 37.39 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 360634

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.2	31.3	58.1

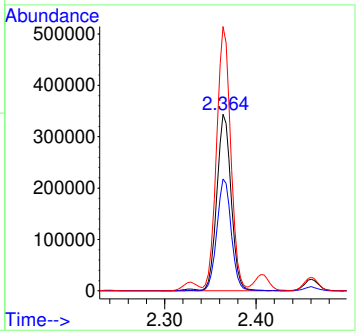


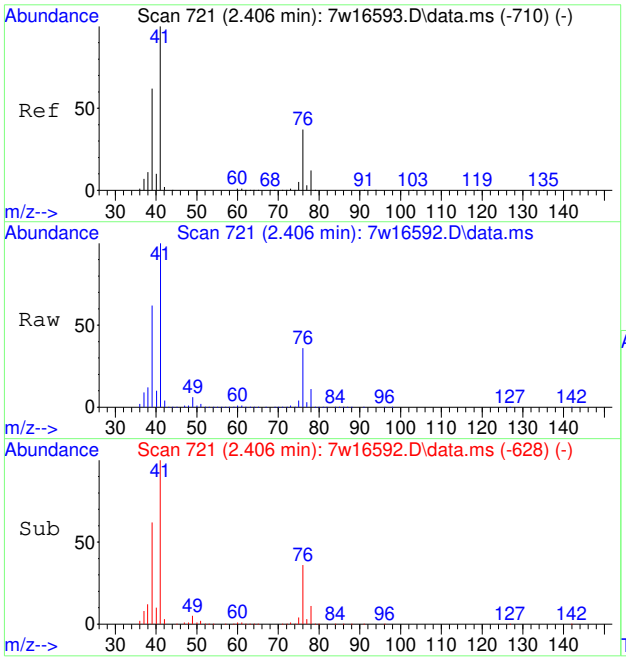


#31
METHYLENE CHLORIDE
Concen: 33.80 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 378529

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.3	82.3
49	147.1	109.5	203.3

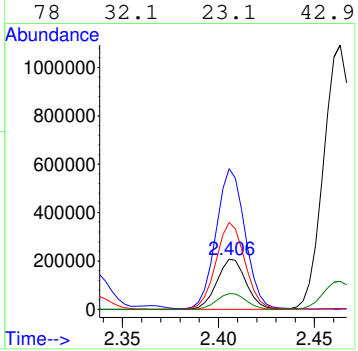


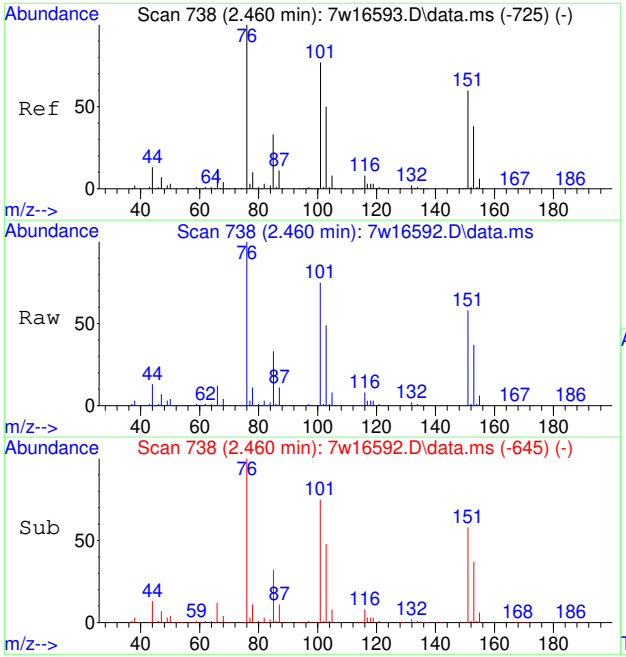


#32
3-CHLOROPROPENE
Concen: 36.95 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 219238

Ion	Ratio	Lower	Upper
76	100		
41	280.1	202.6	376.2
39	172.5	125.8	233.6
78	32.1	23.1	42.9

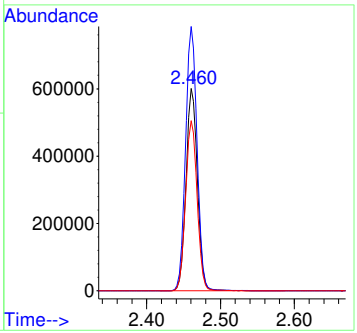


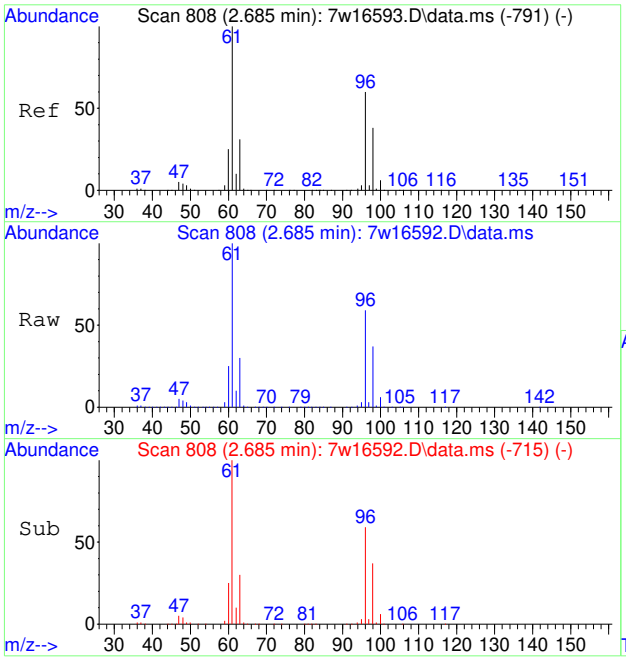


#33
FREON 113
Concen: 38.50 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:151 Resp: 643045

Ion	Ratio	Lower	Upper
151	100		
101	132.0	93.1	172.9
103	85.1	60.1	111.5

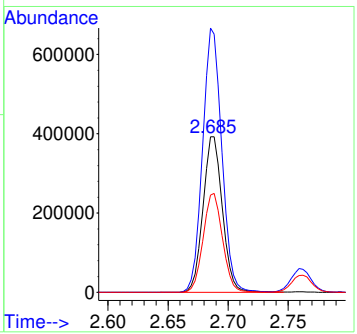


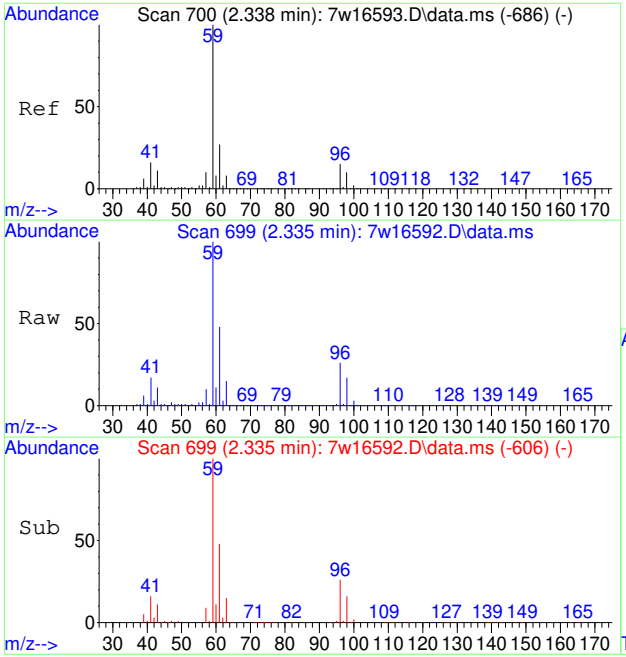


#34
TRANS-1,2-DICHLOROETHENE
Concen: 35.87 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 441405

Ion	Ratio	Lower	Upper
96	100		
61	167.8	119.6	222.0
98	63.6	44.9	83.5

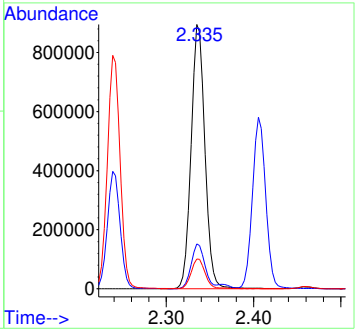


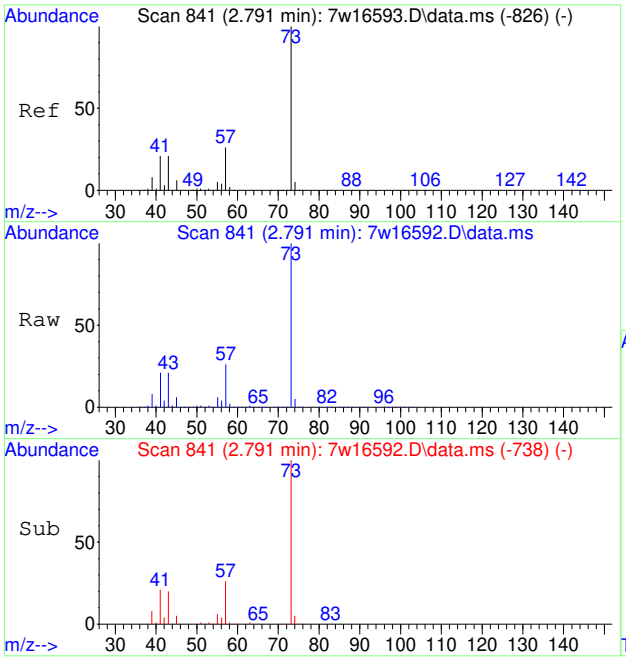


#35
TERTIARY BUTYL ALCOHOL
Concen: 31.02 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 985604

Ion	Ratio	Lower	Upper
59	100		
41	18.1	12.9	23.9
43	11.4	8.0	14.8

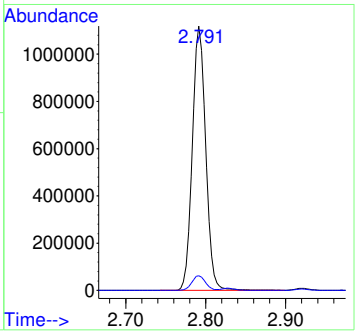


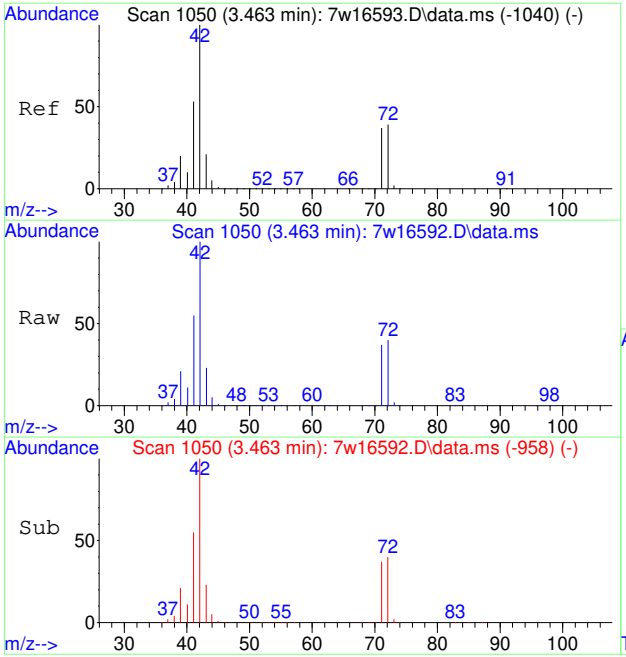


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.36 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 73 Resp: 1301474

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

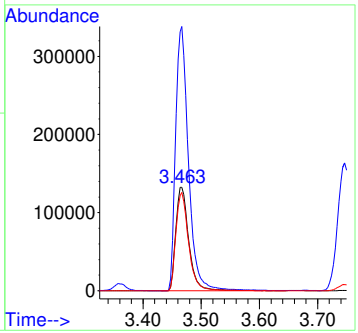


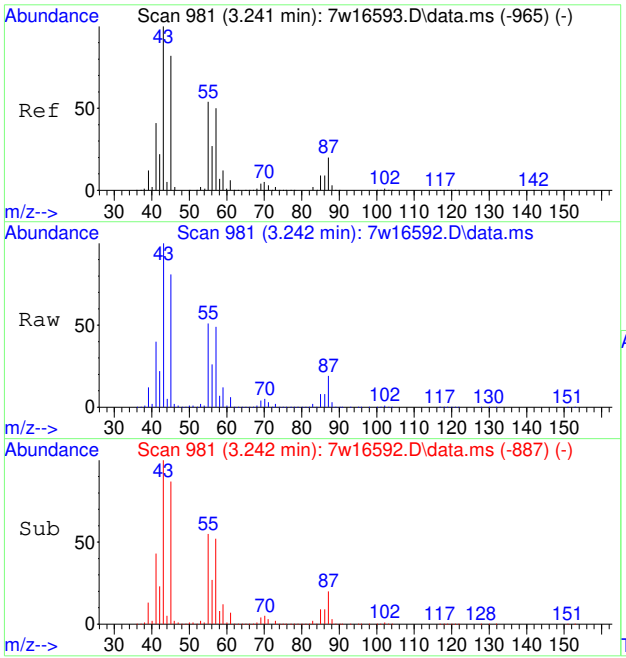


#37
TETRAHYDROFURAN
Concen: 36.97 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 204769

Ion	Ratio	Lower	Upper
72	100		
42	252.8	180.3	334.8
71	93.1	65.8	122.2

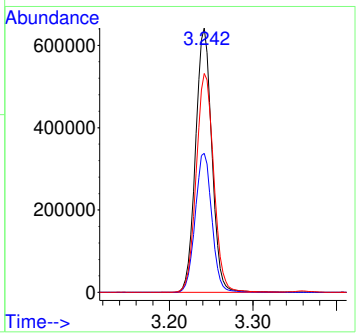


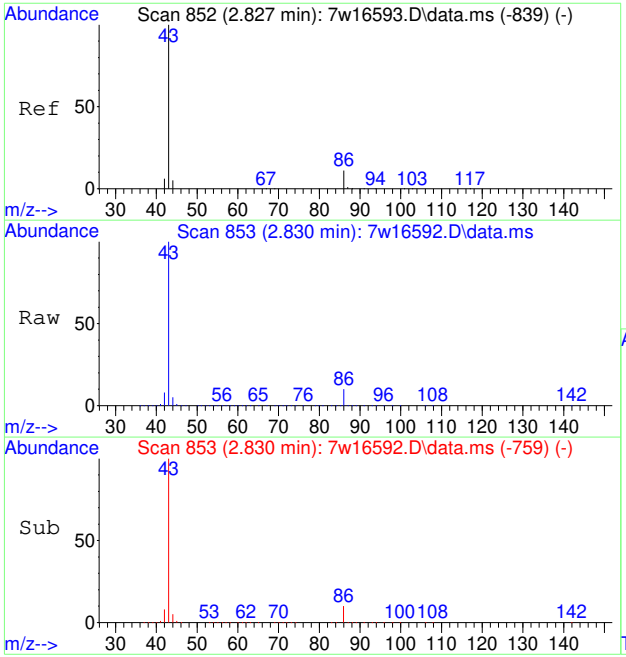


#38
HEXANE
Concen: 36.93 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 870000

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	89.4	65.9	122.5

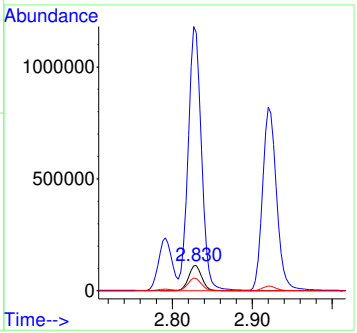


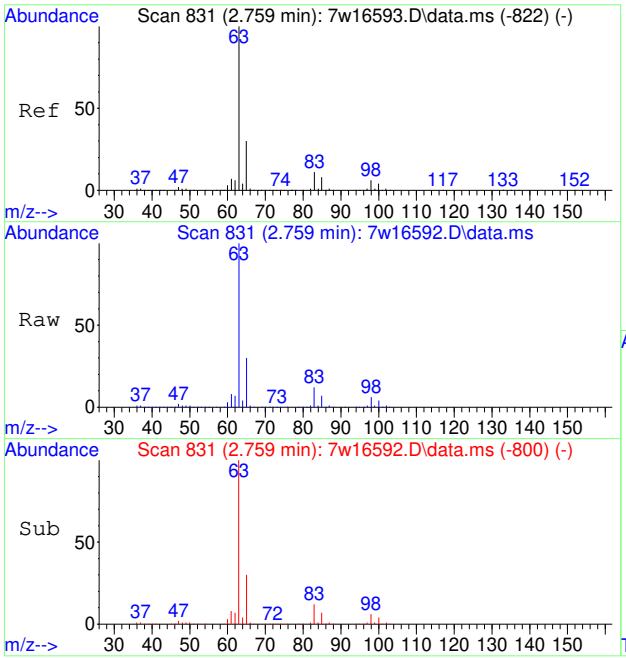


#39
VINYL ACETATE
Concen: 40.25 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 86 Resp: 130550

Ion	Ratio	Lower	Upper
86	100		
43	1050.6	758.7	1408.9
44	50.2	39.5	73.3

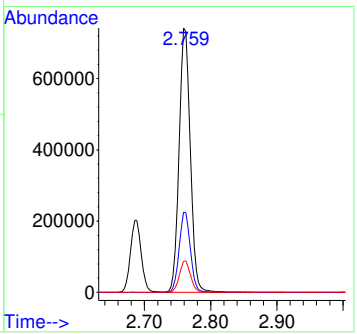


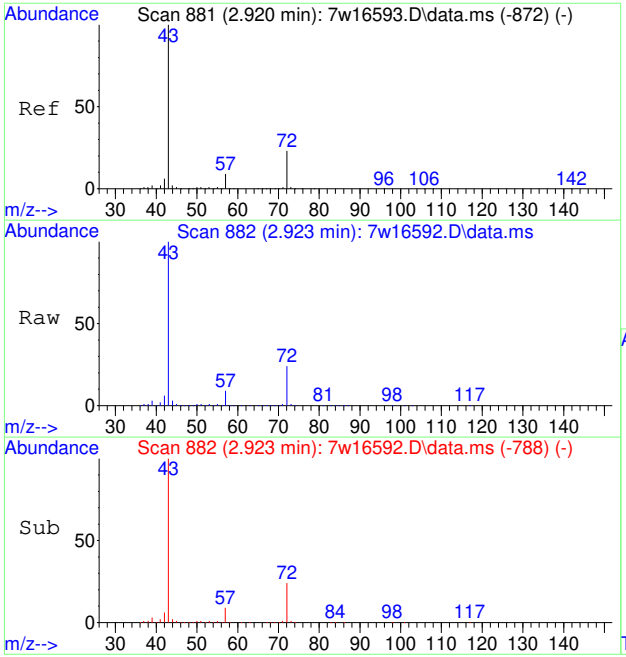


#40
1,1-DICHLOROETHANE
Concen: 37.13 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 876273

Ion	Ratio	Lower	Upper
63	100		
65	30.5	21.4	39.8
83	11.9	8.3	15.5

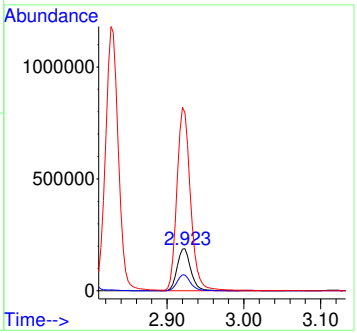


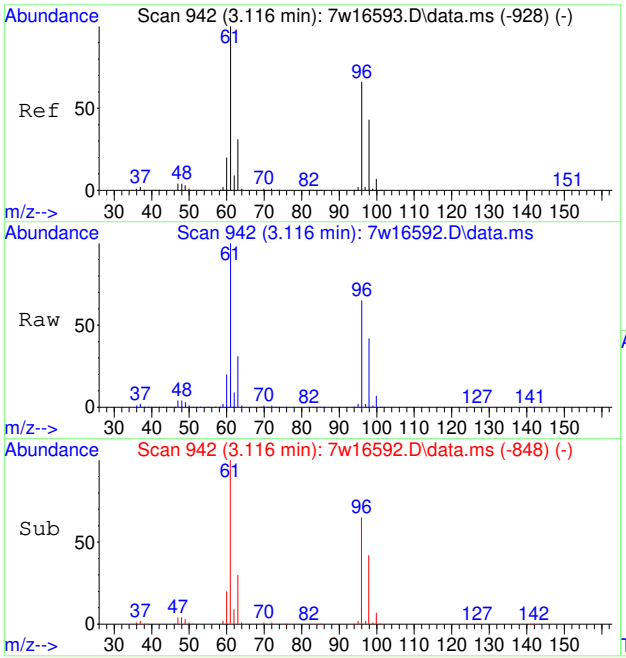


#41
METHYL ETHYL KETONE
Concen: 36.08 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 232500

Ion	Ratio	Lower	Upper
72	100		
57	37.9	26.9	49.9
43	435.4	309.4	574.6

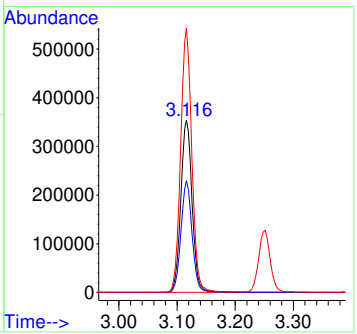


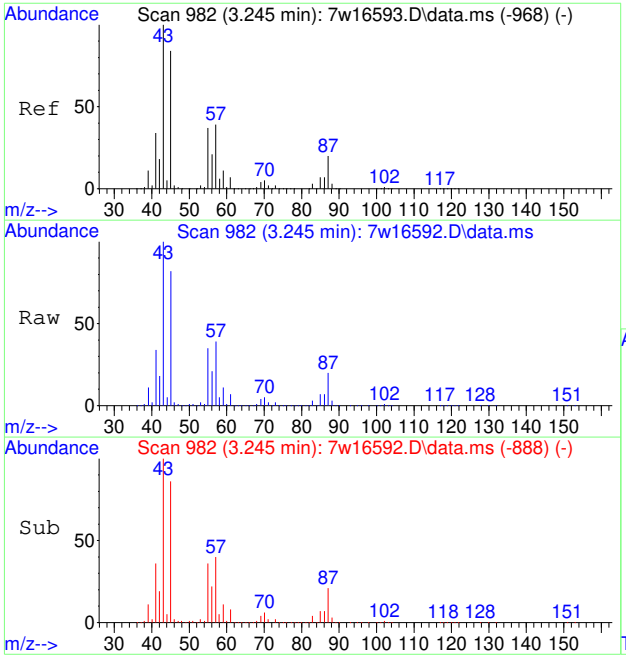


#42
CIS-1,2-DICHLOROETHENE
Concen: 37.74 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 476500

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	151.3	107.3	199.3

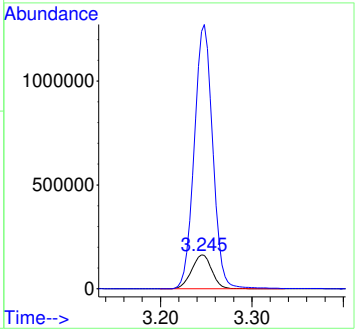


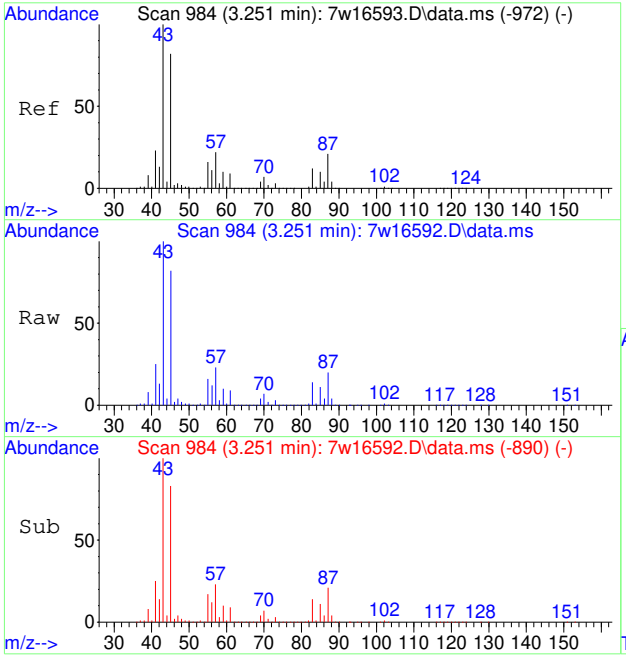


#43
DIISOPROPYL ETHER
Concen: 37.93 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 251965

Ion	Ratio	Lower	Upper
59	100		
45	711.3	517.6	961.2

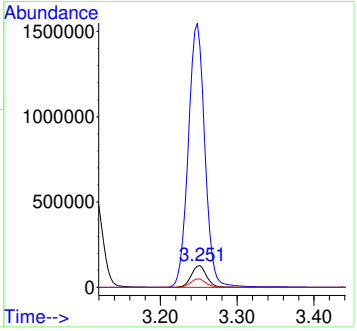


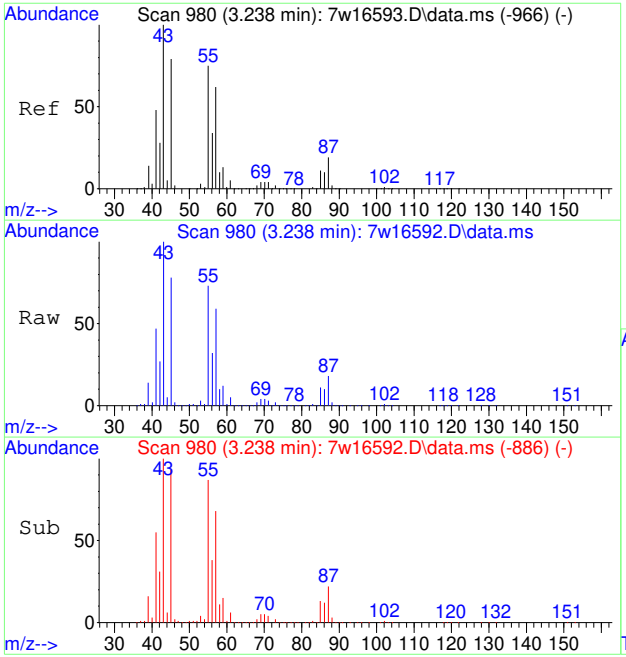


#44
ETHYL ACETATE
Concen: 40.87 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 61 Resp: 179704

Ion	Ratio	Lower	Upper
61	100		
43	1294.1	955.4	1774.4
88	39.7	27.6	51.2

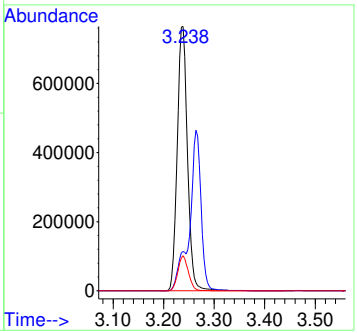


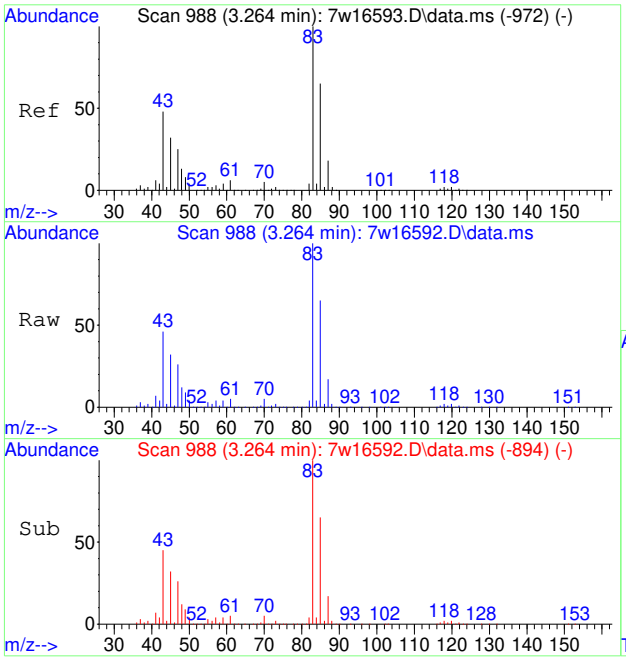


#45
METHYL ACRYLATE
Concen: 38.25 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1081547

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

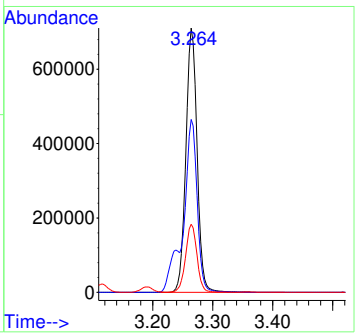


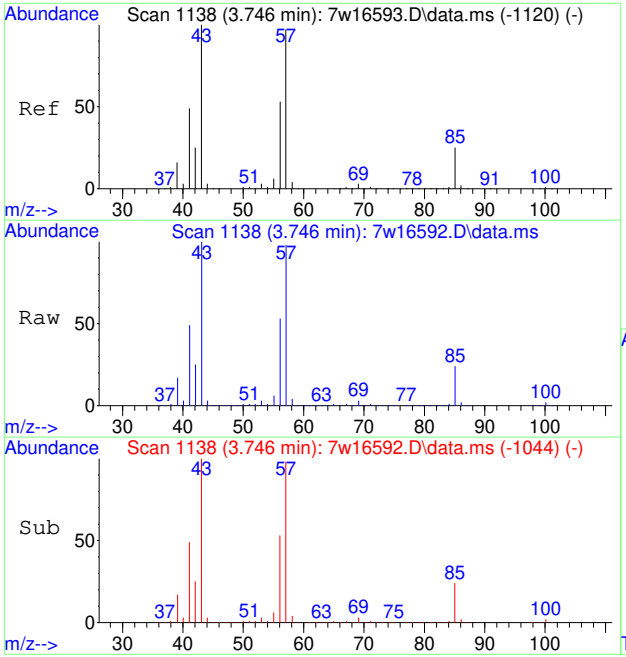


#46
CHLOROFORM
Concen: 37.55 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 920953

Ion	Ratio	Lower	Upper
83	100		
85	81.3	56.0	104.0
47	26.3	19.0	35.4

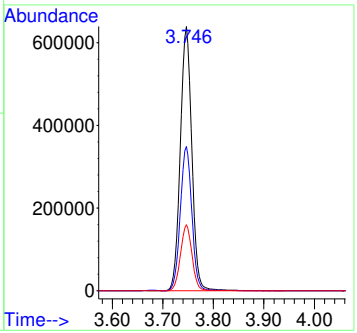


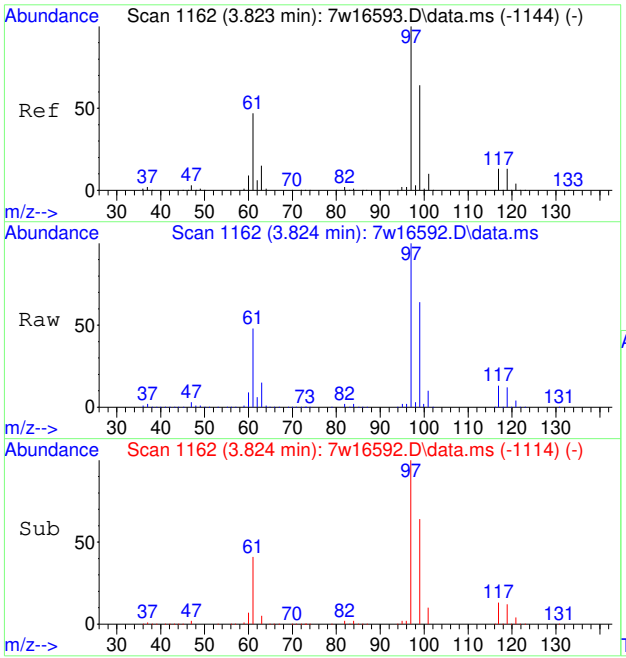


#47
2,4-DIMETHYLPENTANE
Concen: 38.86 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 1014851

Ion	Ratio	Lower	Upper
57	100		
56	54.9	38.4	71.2
85	25.2	17.5	32.5

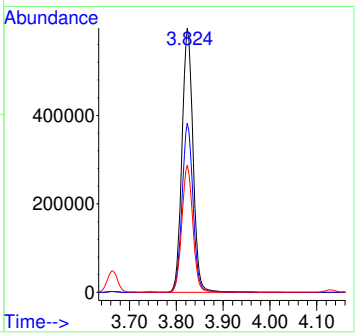


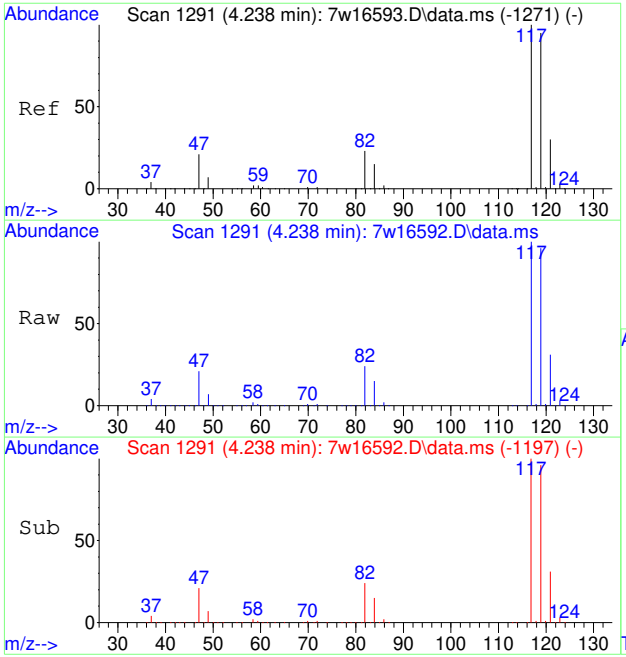


#48
1,1,1-TRICHLOROETHANE
Concen: 38.31 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 97 Resp: 979950

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	48.2	34.7	64.5

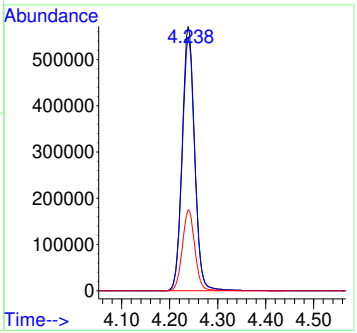


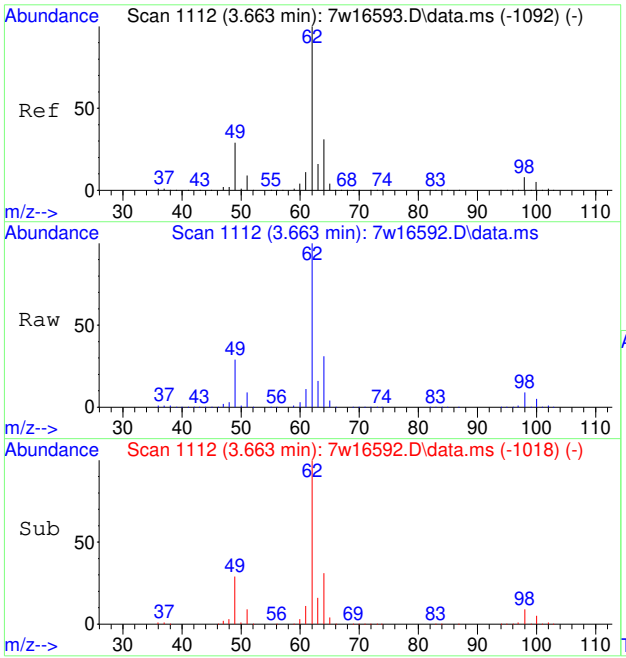


#49
CARBON TETRACHLORIDE
Concen: 39.82 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 1037151

Ion	Ratio	Lower	Upper
117	100		
119	96.3	67.5	125.3
121	30.6	21.3	39.5

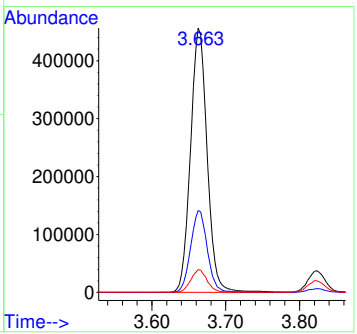


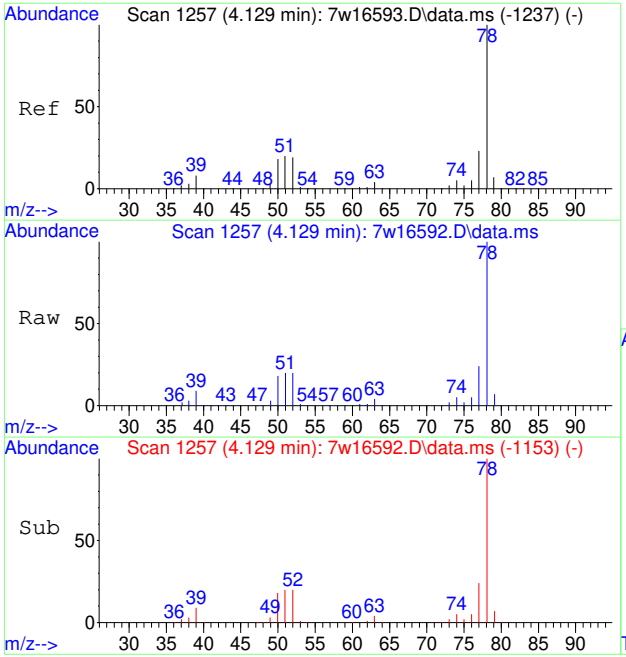


#50
1,2-DICHLOROETHANE
Concen: 37.86 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 713561

Ion	Ratio	Lower	Upper
62	100		
64	31.2	21.8	40.6
98	8.5	5.8	10.8

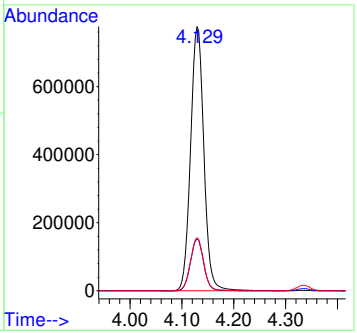


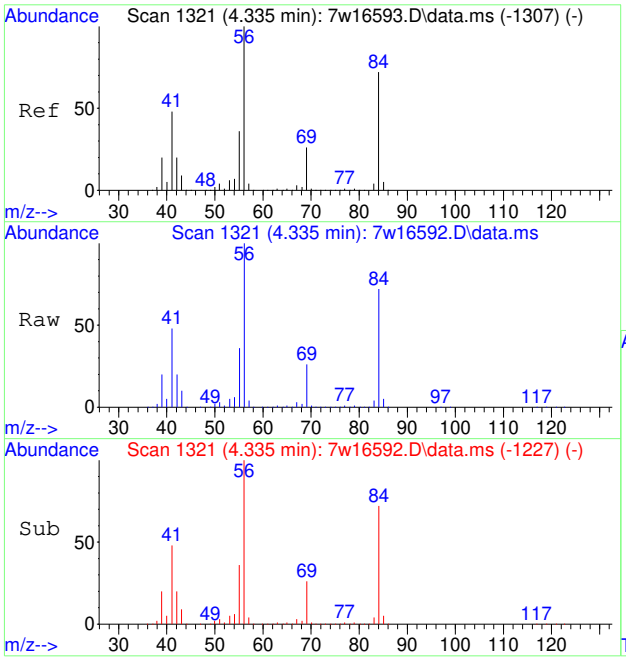


#51
BENZENE
Concen: 36.79 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 78 Resp: 1384237

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	49.9
51	20.0	0.0	50.6

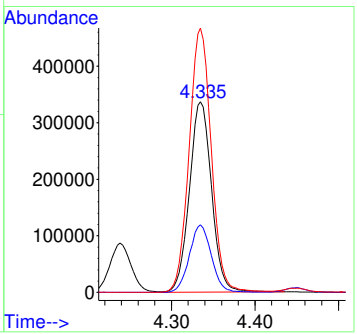


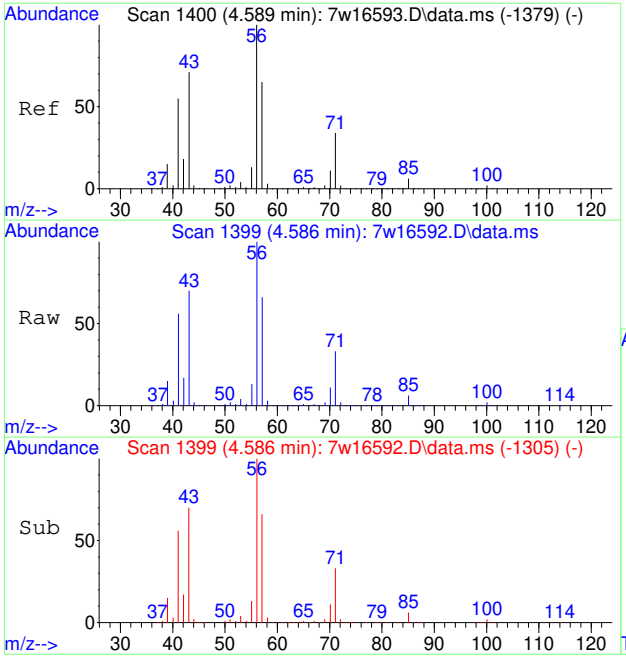


#53
CYCLOHEXANE
Concen: 38.40 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 620038

Ion	Ratio	Lower	Upper
84	100		
69	35.4	24.6	45.6
56	139.1	96.4	179.0

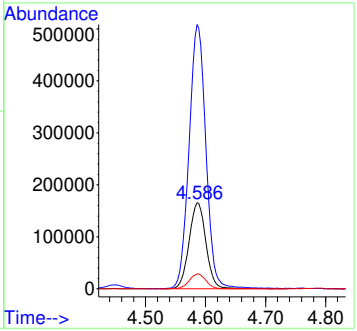


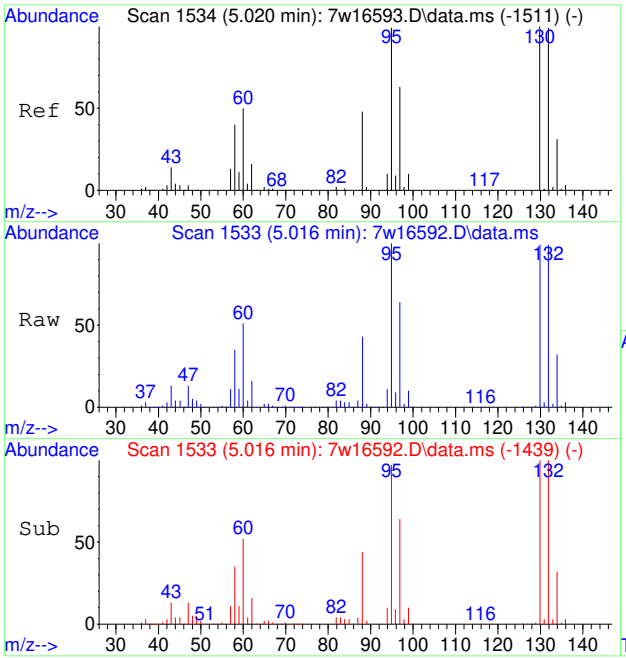


#54
2,3-DIMETHYLPENTANE
Concen: 40.82 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 71 Resp: 325381

Ion	Ratio	Lower	Upper
71	100		
56	304.4	213.2	396.0
85	17.4	12.2	22.6

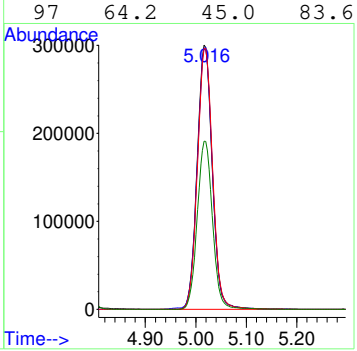


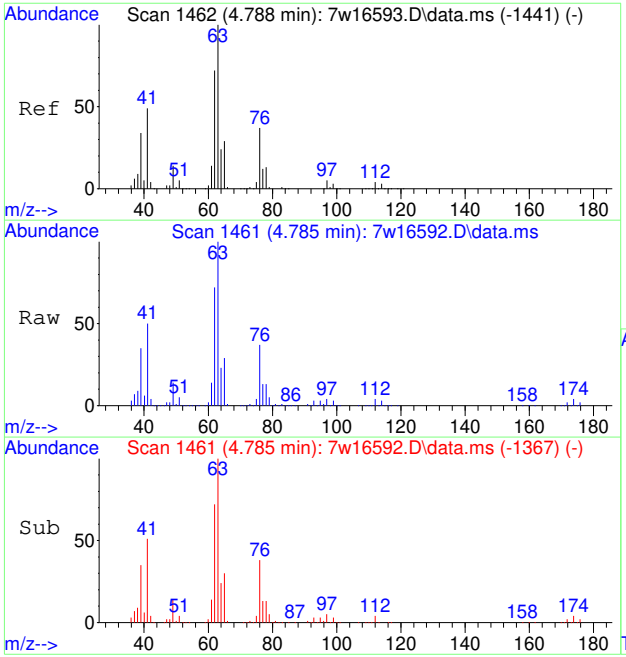


#55
TRICHLOROETHENE
Concen: 36.24 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 95 Resp: 627429

Ion	Ratio	Lower	Upper
95	100		
130	99.8	69.4	129.0
132	99.3	69.4	128.8
97	64.2	45.0	83.6

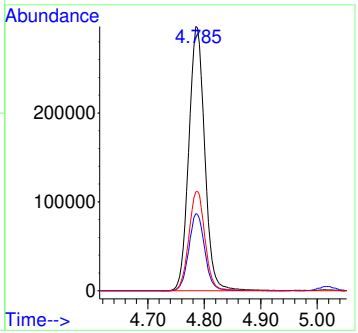


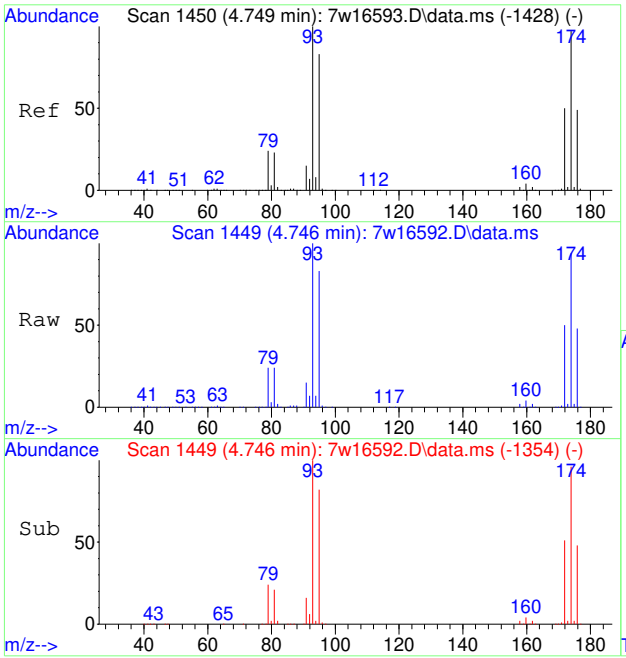


#56
1,2-DICHLOROPROPANE
Concen: 38.36 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 583236

Ion	Ratio	Lower	Upper
63	100		
65	29.4	20.5	38.1
76	38.3	27.1	50.3

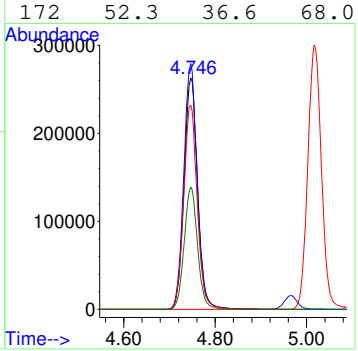


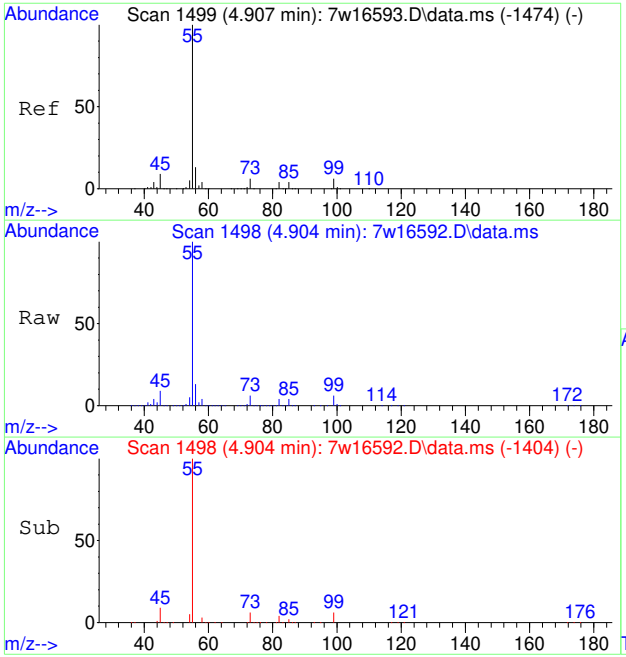


#57
DIBROMOMETHANE
Concen: 36.49 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:174 Resp: 542289

Ion	Ratio	Lower	Upper
174	100		
93	105.2	75.3	139.9
95	88.2	62.4	115.8
172	52.3	36.6	68.0

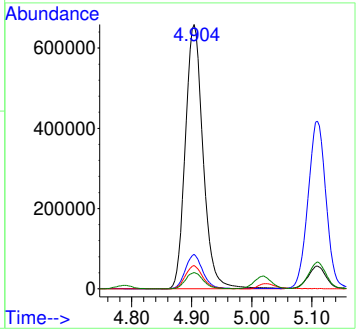


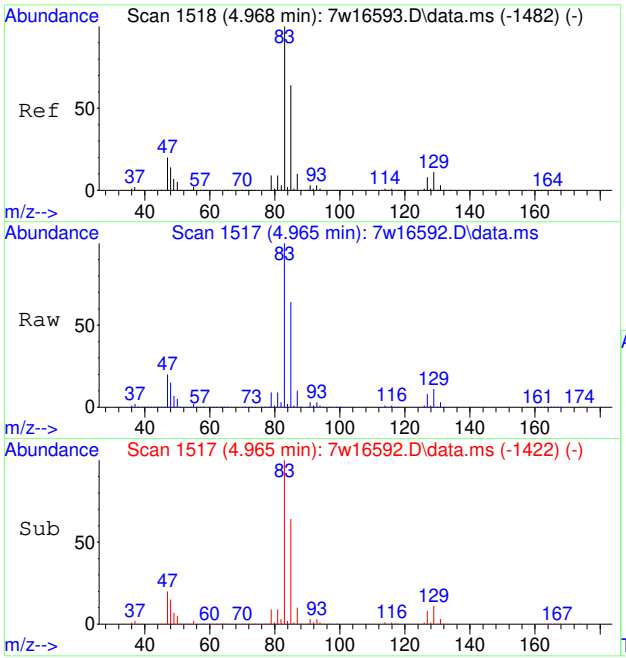


#58
ETHYL ACRYLATE
Concen: 40.04 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1354109

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.6	6.1	11.3
99	6.1	4.3	8.1

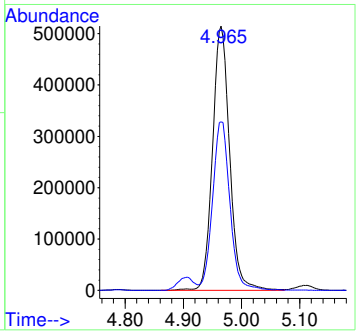


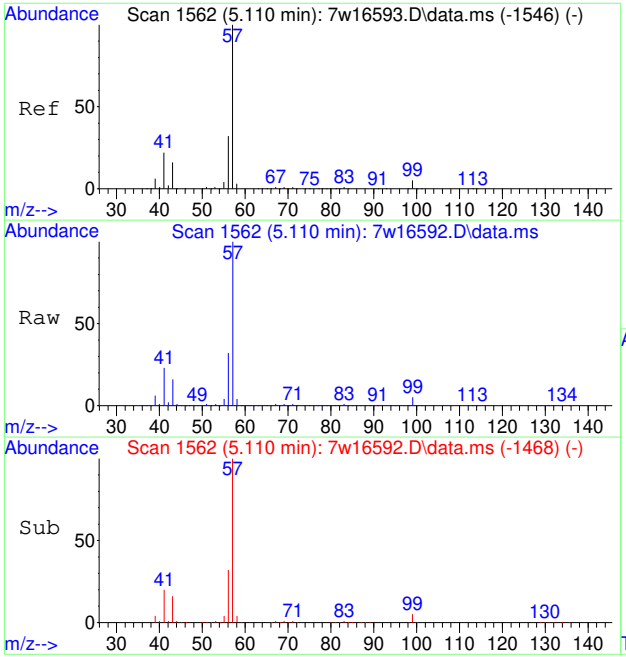


#59
BROMODICHLOROMETHANE
Concen: 38.42 PPBV
RT: 4.965 min Scan# 1517
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1056193

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

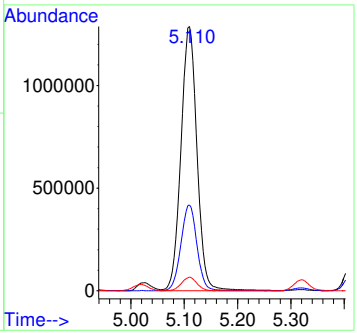


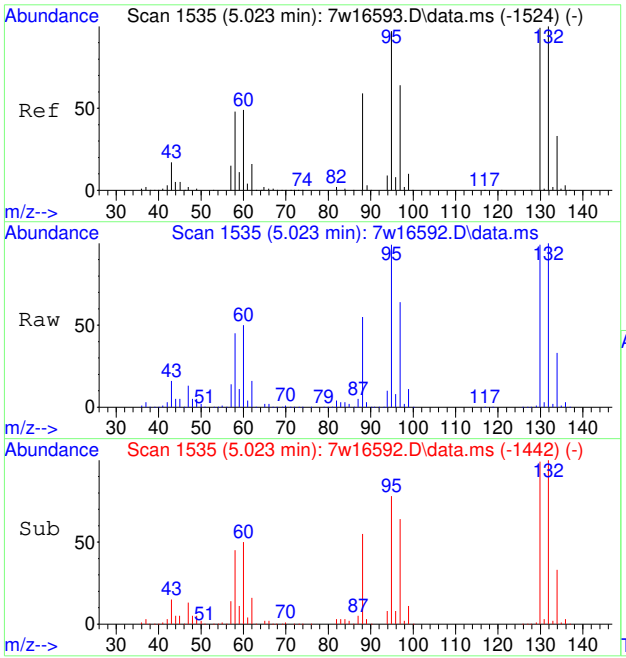


#60
2,2,4-TRIMETHYLPENTANE
Concen: 35.45 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 2697169

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

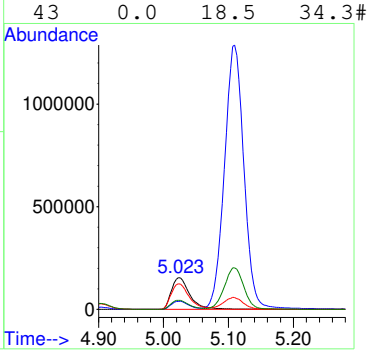


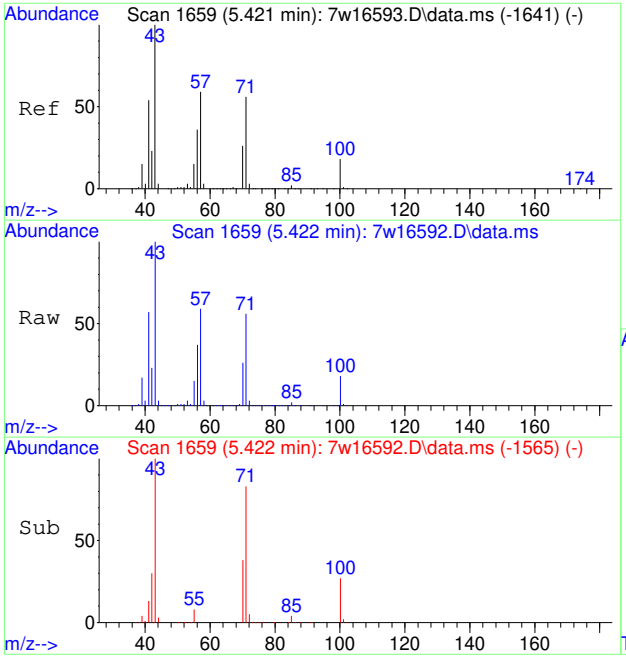


#61
1,4-DIOXANE
Concen: 38.33 PPBV m
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 88 Resp: 307098

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

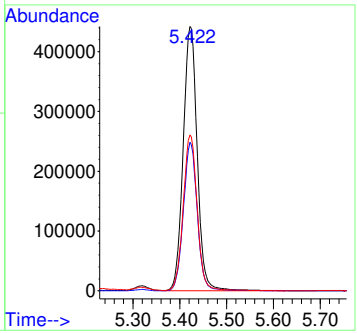


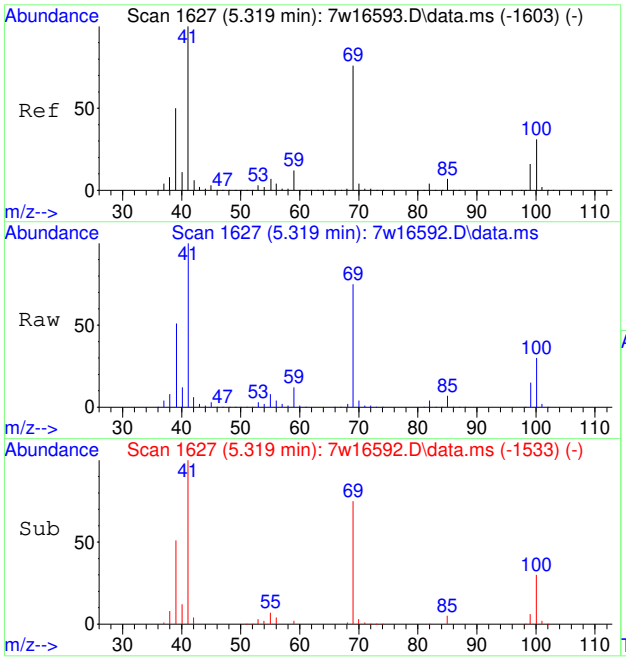


#62
HEPTANE
Concen: 36.76 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 919337

Ion	Ratio	Lower	Upper
43	100		
71	55.6	38.9	72.2
57	59.0	40.5	75.3

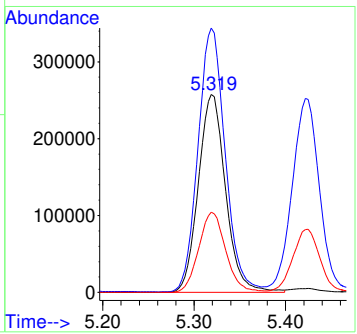


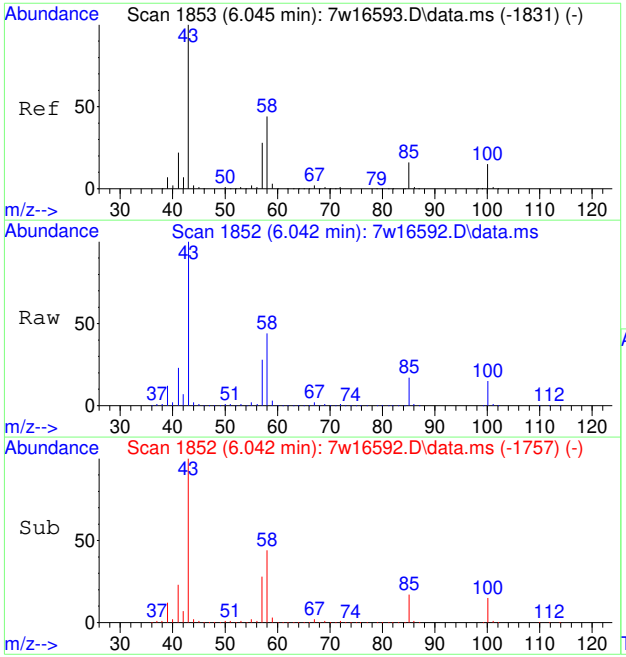


#63
METHYL METHACRYLATE
Concen: 38.93 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 535566

Ion	Ratio	Lower	Upper
69	100		
41	132.0	95.5	177.4
100	40.3	28.1	52.1

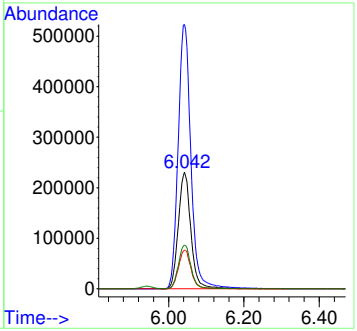


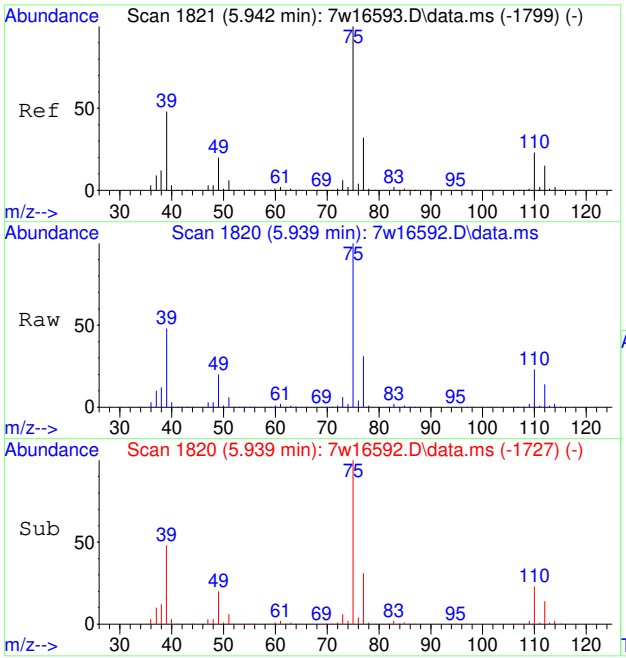


#64
METHYL ISOBUTYL KETONE
Concen: 35.65 PPBV
RT: 6.042 min Scan# 1852
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 535813

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.6	23.2	43.2
85	38.0	26.5	49.3

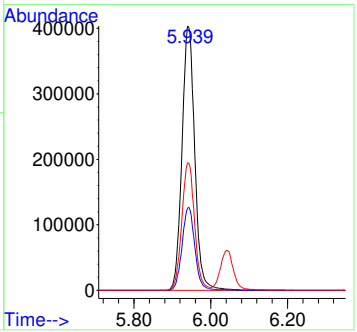


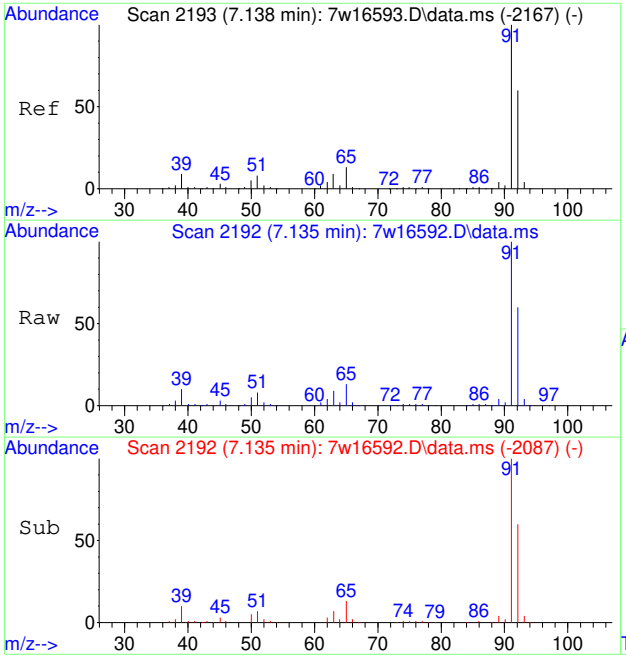


#65
CIS-1,3-DICHLOROPROPENE
Concen: 41.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 931150

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	41.0
39	48.3	35.7	66.3

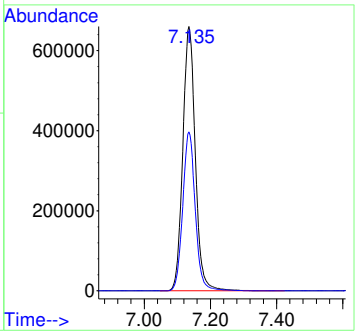


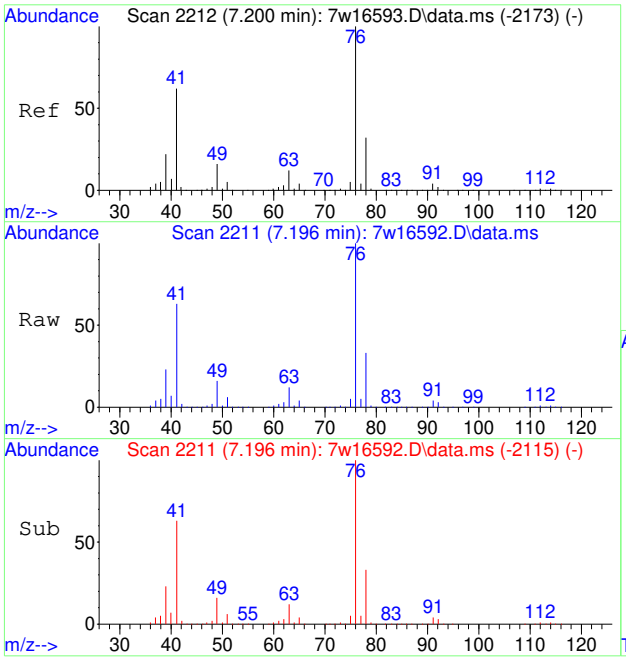


#66
TOLUENE
Concen: 39.79 PPBV
RT: 7.135 min Scan# 2192
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1737506

Ion	Ratio	Lower	Upper
91	100		
92	60.0	30.3	90.3

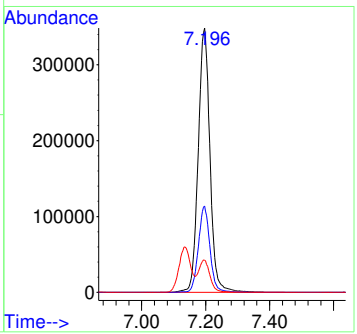


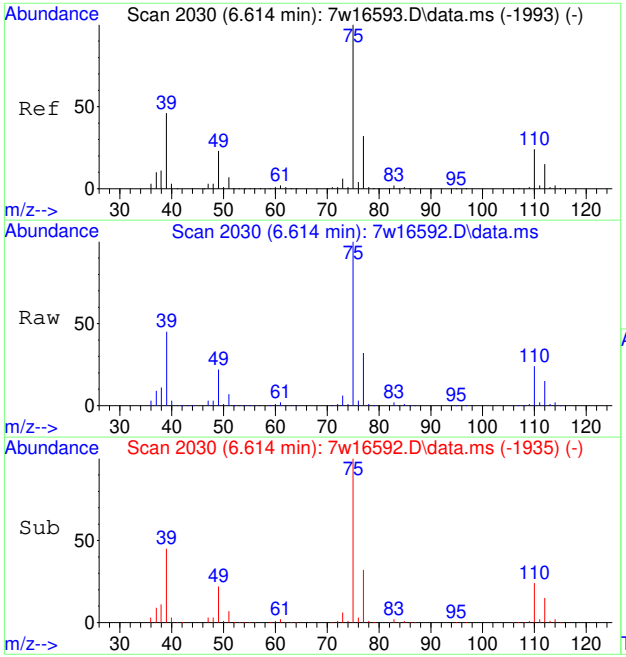


#67
1,3-DICHLOROPROPANE
Concen: 40.85 PPBV
RT: 7.196 min Scan# 2211
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 888887

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.1	8.3	15.5

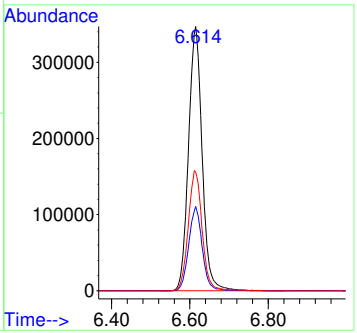


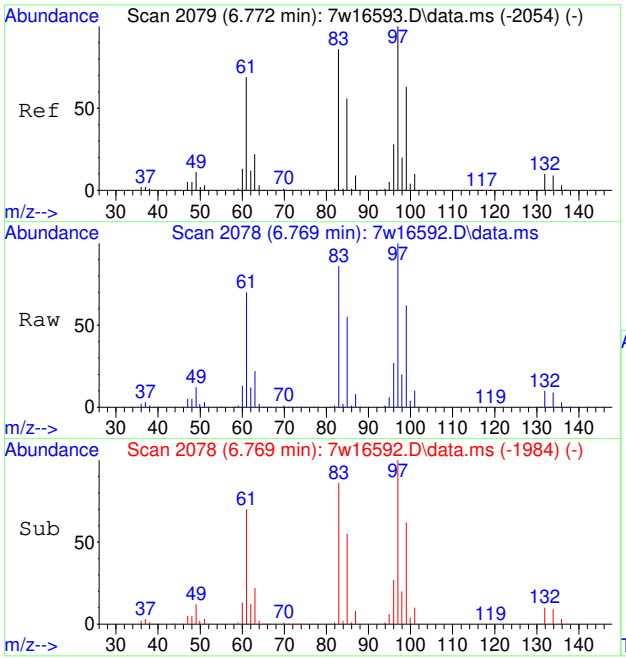


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 41.75 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 837419

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	46.3	33.9	63.0

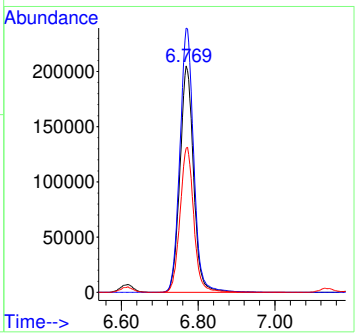


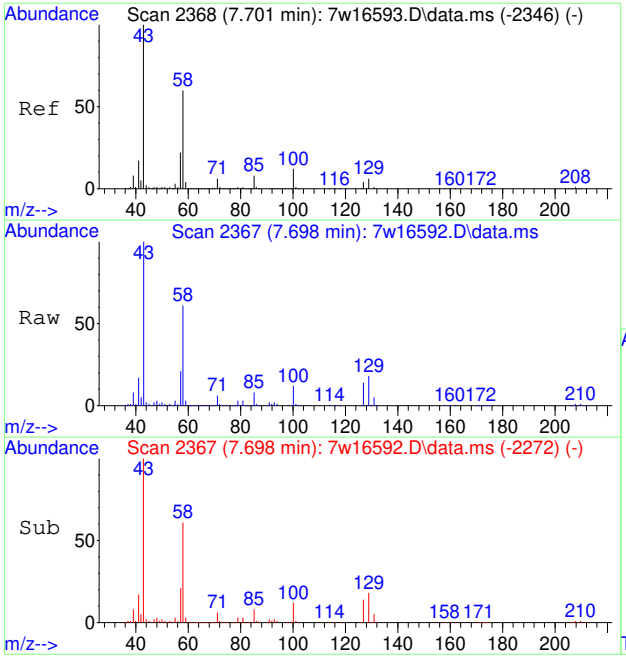


#69
1,1,2-TRICHLOROETHANE
Concen: 41.21 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 506821

Ion	Ratio	Lower	Upper
83	100		
97	117.2	81.2	150.8
85	64.6	45.1	83.7

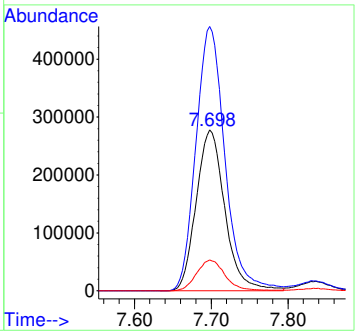


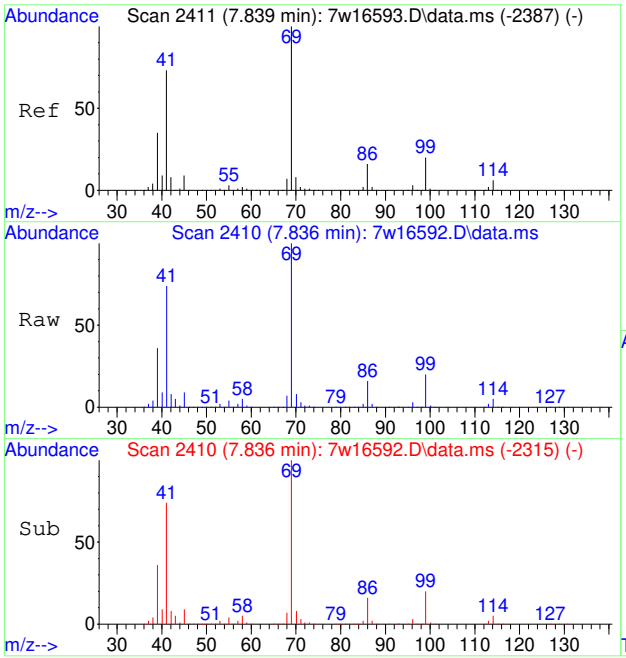


#70
2-HEXANONE
Concen: 33.68 PPBV
RT: 7.698 min Scan# 2367
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 721391

Ion	Ratio	Lower	Upper
58	100		
43	166.0	118.6	220.2
100	19.1	13.0	24.2

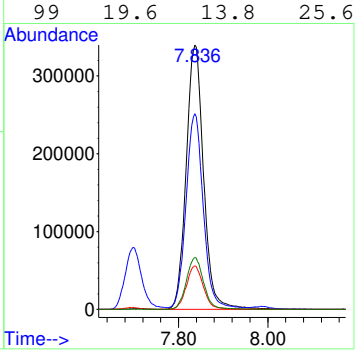


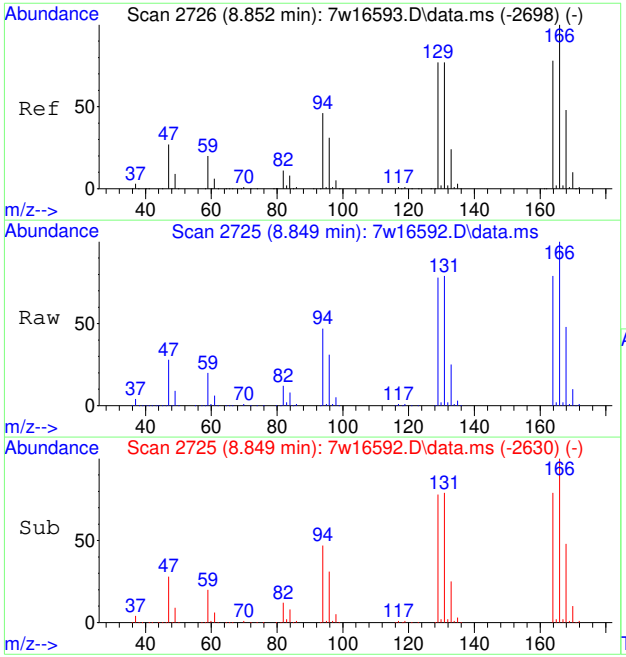


#71
ETHYL METHACRYLATE
Concen: 40.41 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 919855

Ion	Ratio	Lower	Upper
69	100		
41	72.3	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

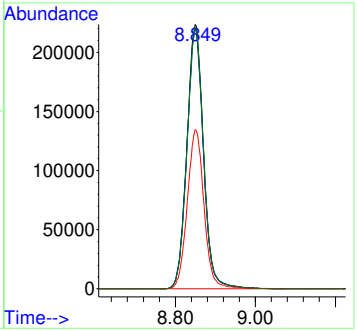


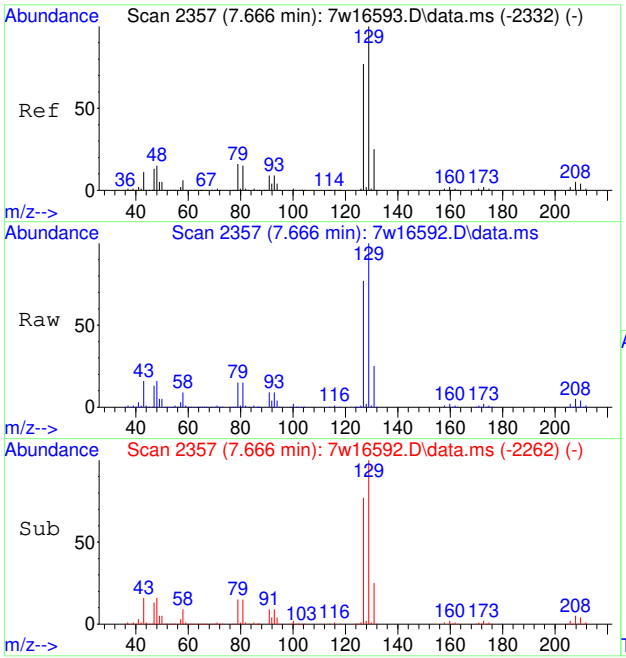


#72
TETRACHLOROETHENE
Concen: 40.75 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:164 Resp: 647021

Ion	Ratio	Lower	Upper
164	100		
129	98.1	69.6	129.2
168	60.5	42.5	78.9
131	98.3	69.4	129.0

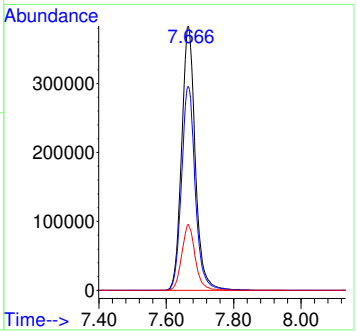


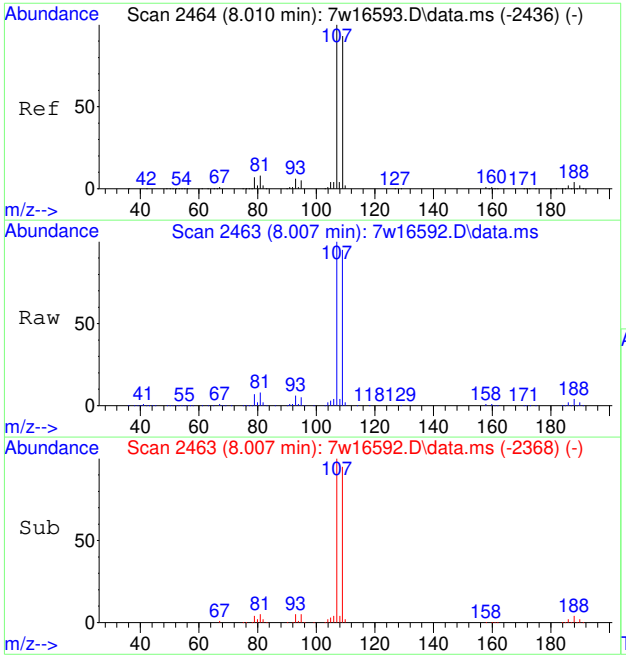


#73
DIBROMOCHLOROMETHANE
Concen: 44.36 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:129 Resp: 1078202

Ion	Ratio	Lower	Upper
129	100		
127	77.9	54.7	101.7
131	24.7	17.4	32.4

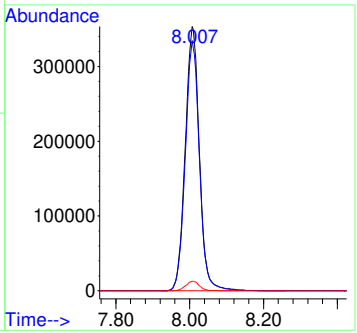


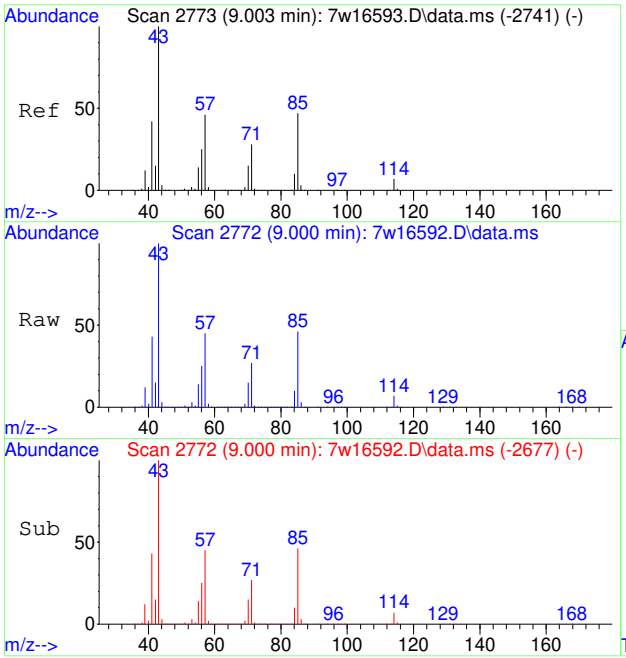


#74
1,2-DIBROMOETHANE
Concen: 41.96 PPBV
RT: 8.007 min Scan# 2463
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:107 Resp: 940297

Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.1	122.8
188	3.6	2.5	4.6

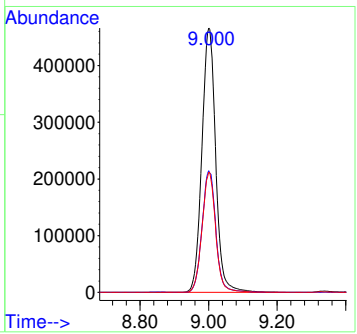


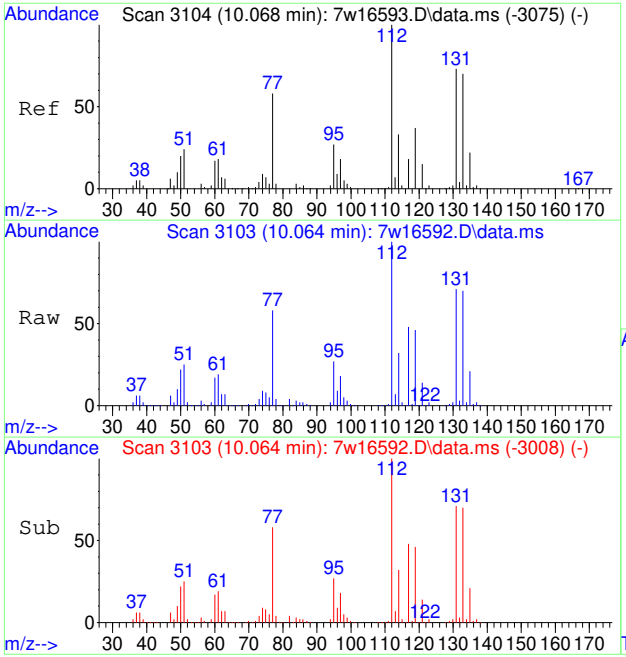


#75
OCTANE
Concen: 39.19 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1299991

Ion	Ratio	Lower	Upper
43	100		
85	46.1	31.8	59.0
57	45.0	31.4	58.2

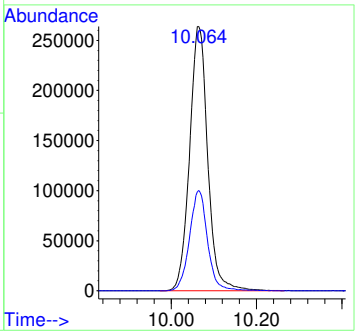


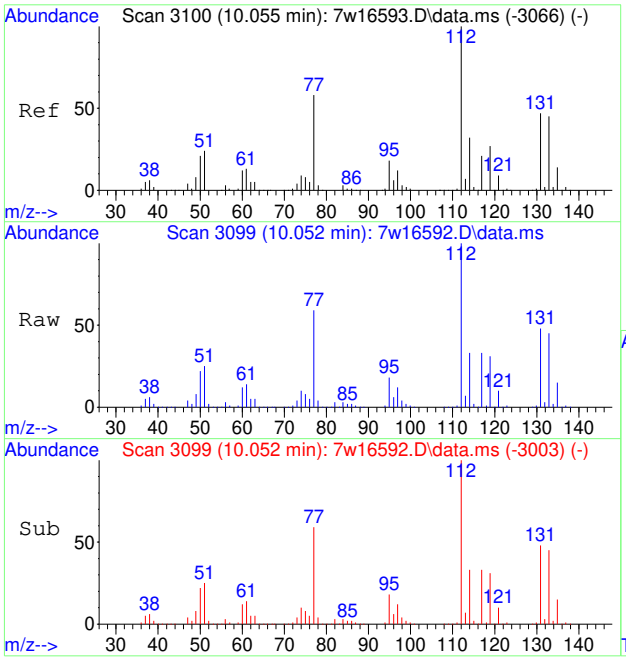


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 43.93 PPBV
RT: 10.064 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:131 Resp: 780177

Ion	Ratio	Lower	Upper
131	100		
95	37.8	26.5	49.1

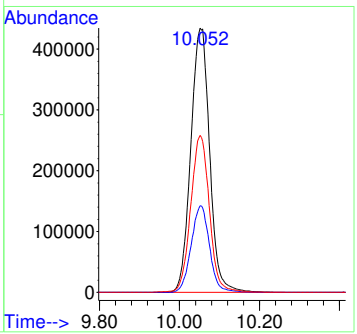


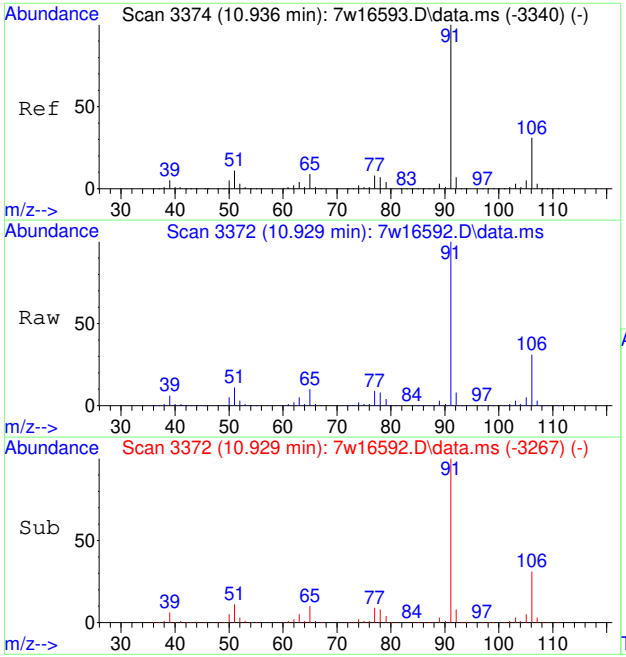


#78
CHLOROBENZENE
Concen: 41.32 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:112 Resp: 1423127

Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	59.0	42.1	78.1

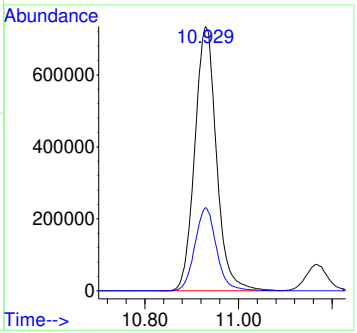


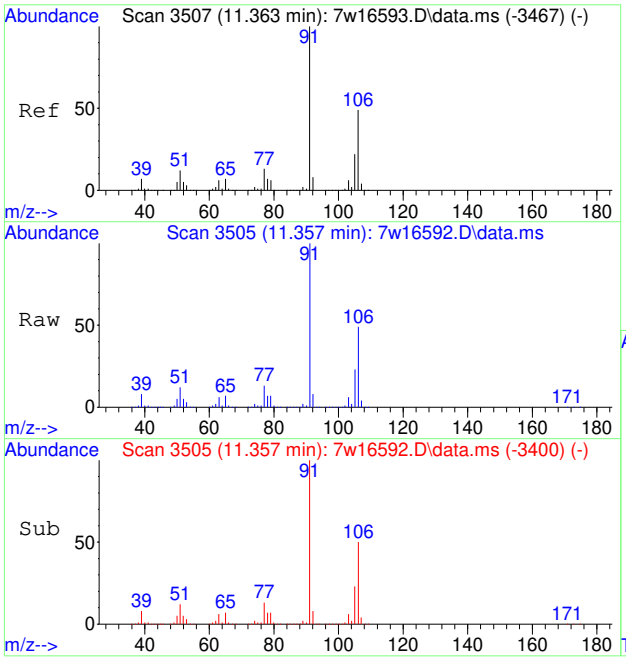


#79
ETHYLBENZENE
Concen: 41.92 PPBV
RT: 10.929 min Scan# 3372
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2363041

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

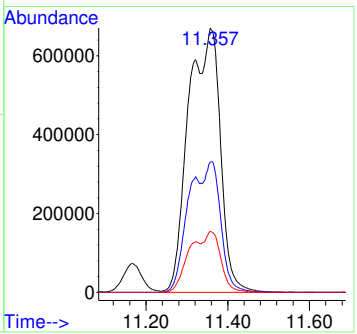


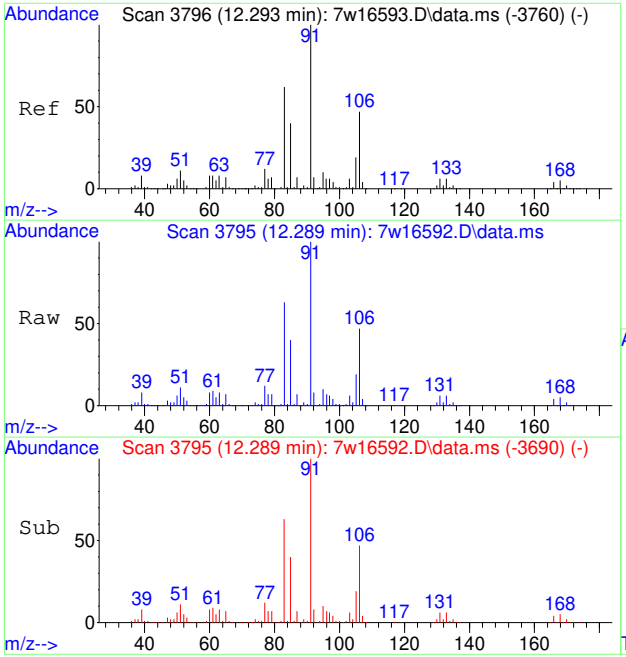


#80
M,P-XYLENE
Concen: 78.82 PPBV
RT: 11.357 min Scan# 3505
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 3630117

Ion	Ratio	Lower	Upper
91	100		
106	25.9	0.0	56.1
105	13.4	0.0	42.1

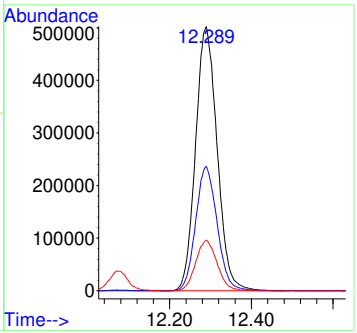


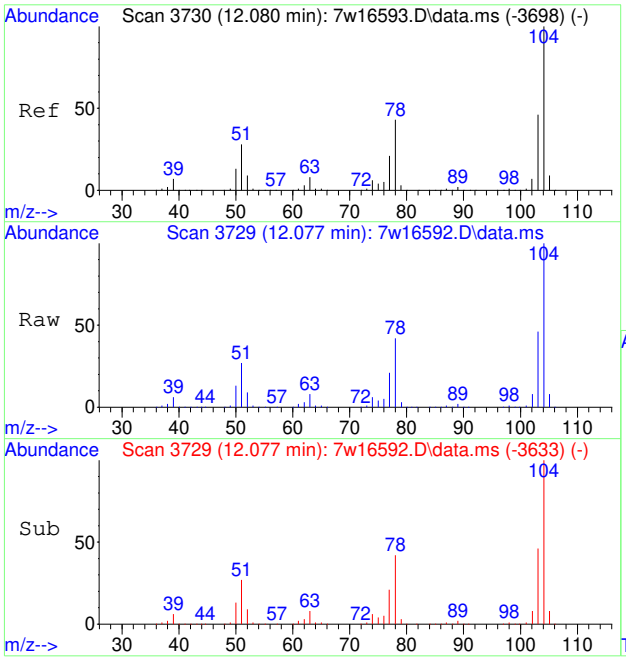


#81
O-XYLENE
Concen: 41.40 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1842699

Ion	Ratio	Lower	Upper
91	100		
106	47.1	31.8	59.0
105	19.2	13.0	24.2

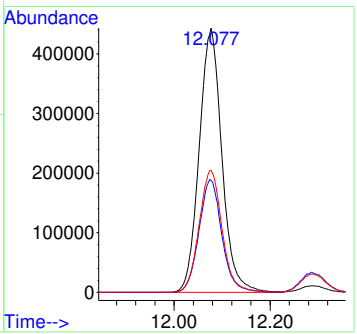


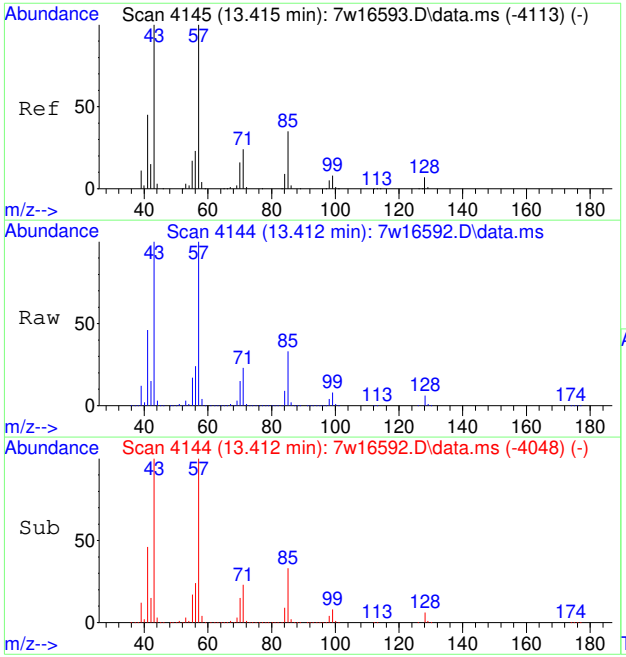


#82
STYRENE
Concen: 44.73 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:104 Resp: 1452853

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.8	32.8	61.0

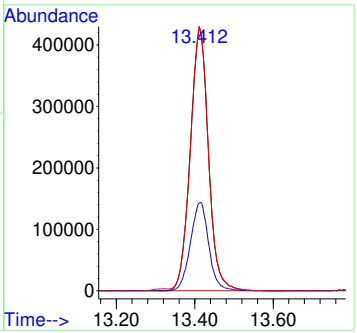


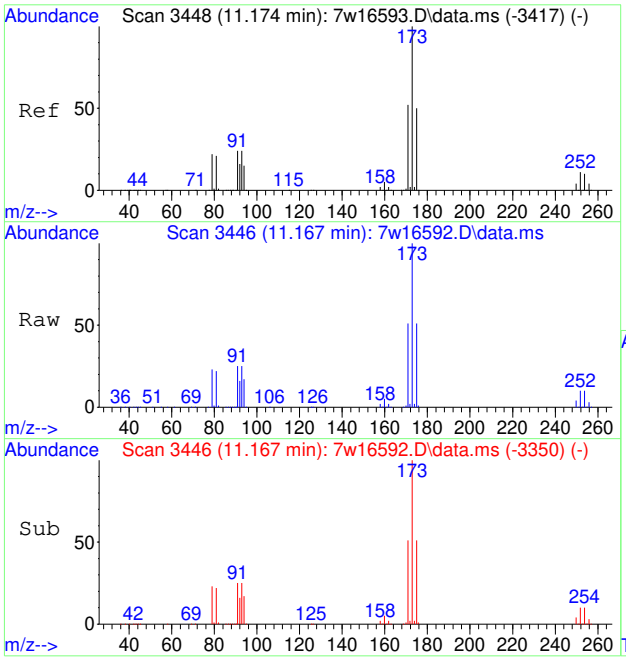


#83
NONANE
Concen: 39.45 PPBV
RT: 13.412 min Scan# 4144
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1380586

Ion	Ratio	Lower	Upper
43	100		
85	33.8	23.4	43.4
57	100.5	69.2	128.6

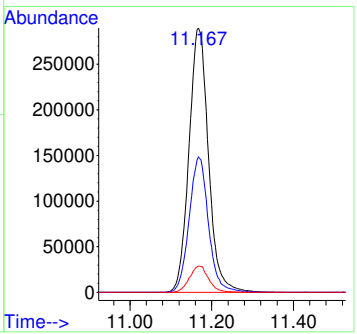


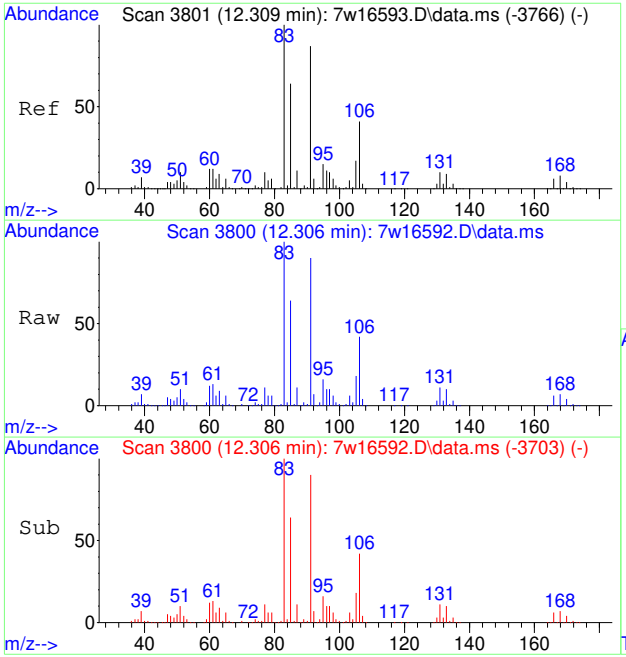


#84
BROMOFORM
Concen: 47.95 PPBV
RT: 11.167 min Scan# 3446
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:173 Resp: 961757

Ion	Ratio	Lower	Upper
173	100		
175	50.8	35.1	65.1
254	9.9	6.7	12.5

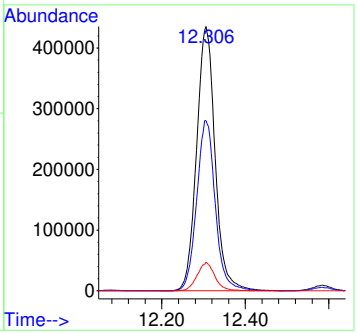


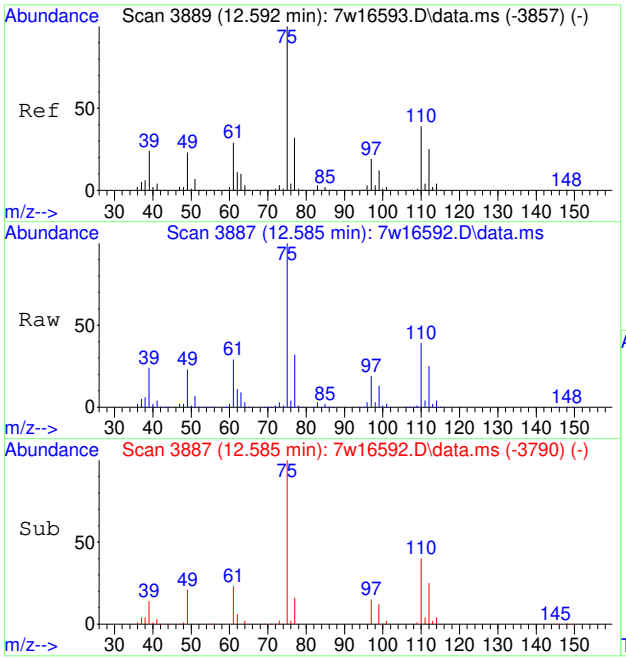


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 42.27 PPBV
RT: 12.306 min Scan# 3800
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1339122

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.4	7.3	13.5

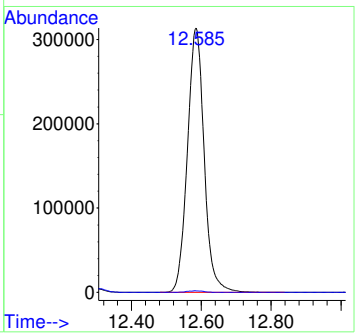


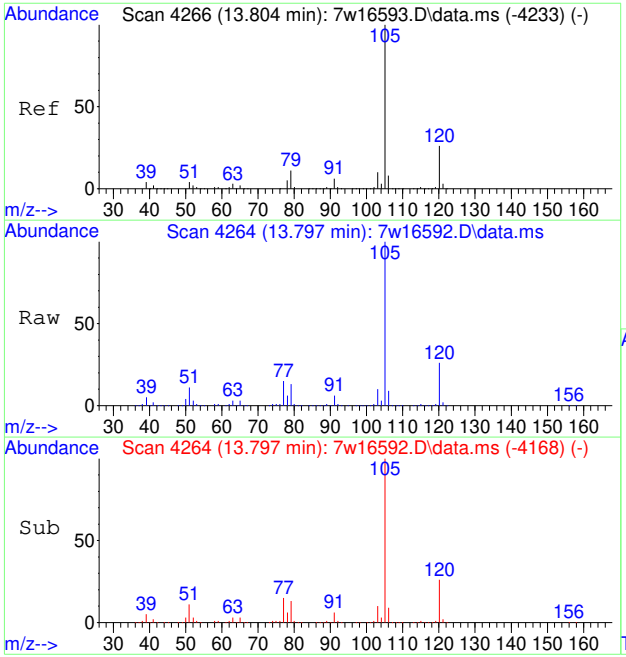


#86
1,2,3-TRICHLOROPROPANE
Concen: 42.19 PPBV
RT: 12.585 min Scan# 3887
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 1047163

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

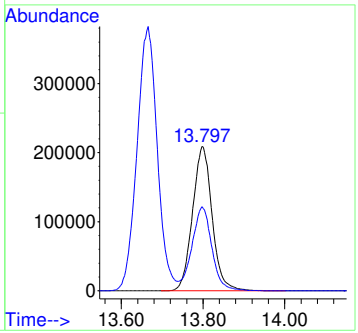


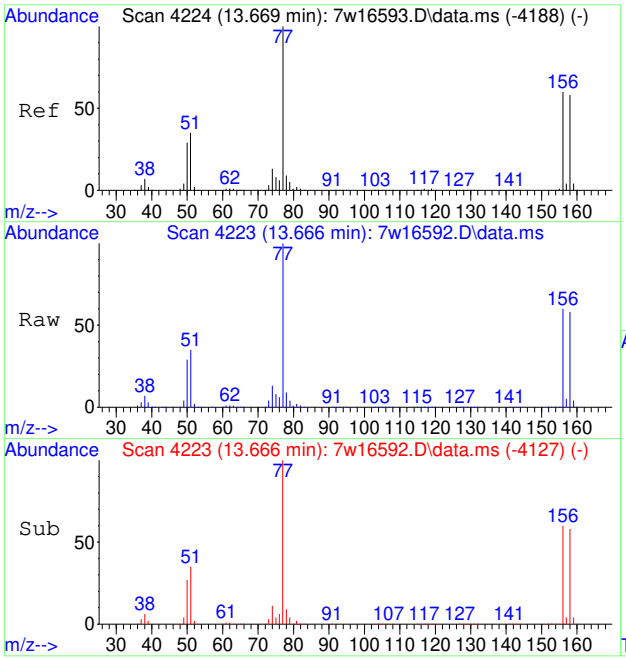


#88
ISOPROPYLBENZENE
Concen: 41.27 PPBV
RT: 13.797 min Scan# 4264
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 695388

Ion	Ratio	Lower	Upper
120	100		
77	59.7	42.5	78.9

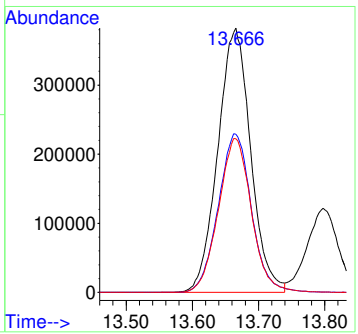


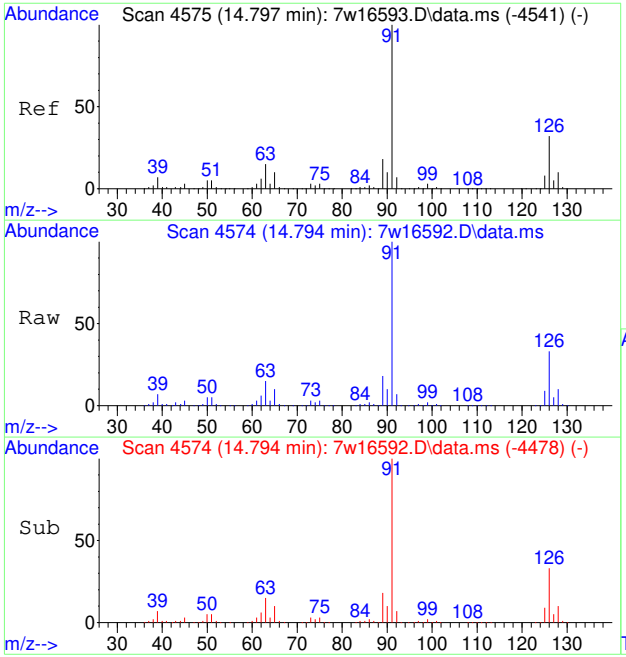


#89
BROMOBENZENE
Concen: 40.55 PPBV
RT: 13.666 min Scan# 4223
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 77 Resp: 1318537

Ion	Ratio	Lower	Upper
77	100		
156	60.7	42.4	78.8
158	58.7	40.9	76.0

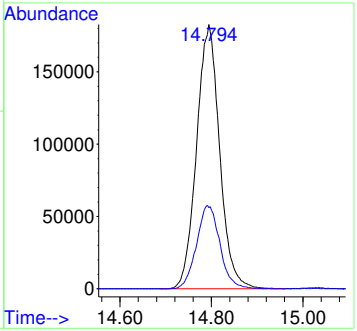


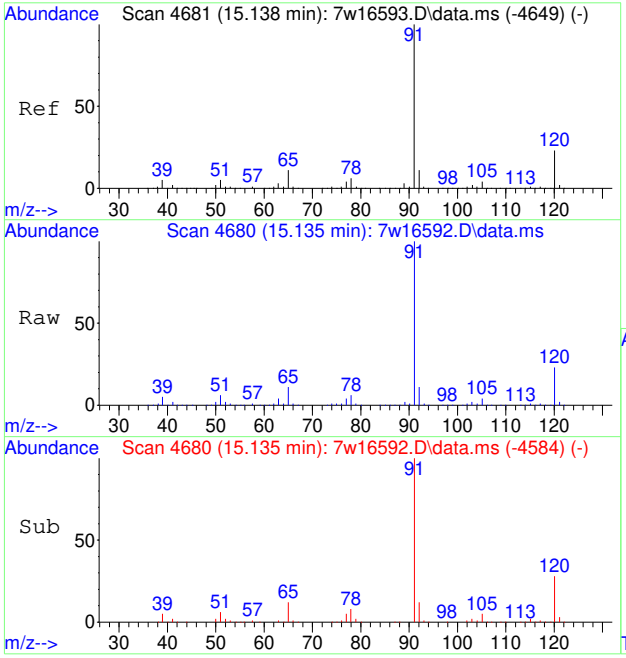


#90
2-CHLOROTOLUENE
Concen: 41.17 PPBV
RT: 14.794 min Scan# 4574
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:126 Resp: 639043

Ion	Ratio	Lower	Upper
126	100		
128	32.0	22.5	41.7

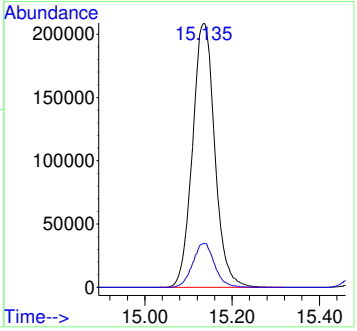


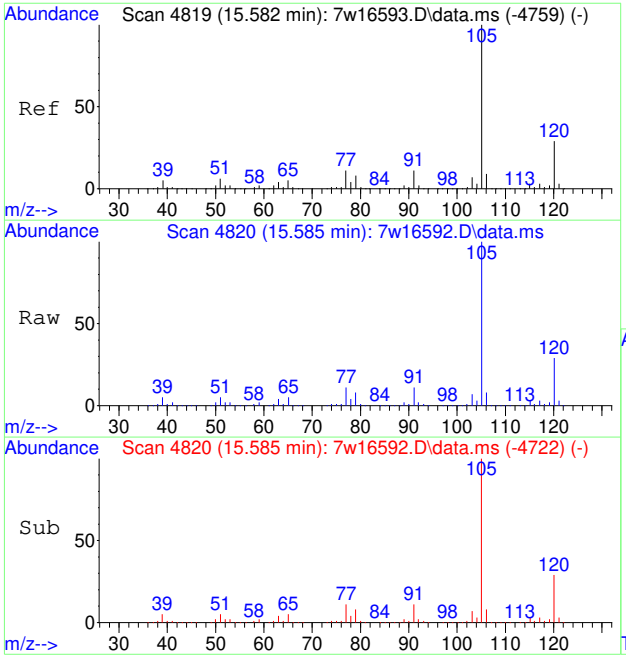


#91
N-PROPYLBENZENE
Concen: 42.04 PPBV
RT: 15.135 min Scan# 4680
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 740280

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

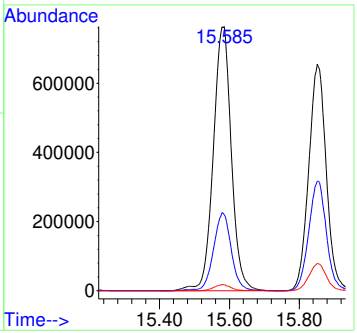


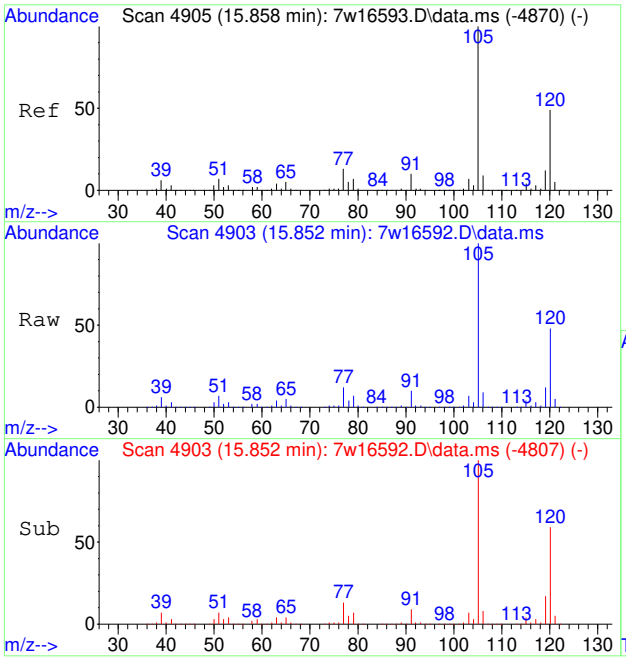


#92
4-ETHYLTOLUENE
Concen: 42.04 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2747294

Ion	Ratio	Lower	Upper
105	100		
120	29.2	20.7	38.5
119	2.2	1.6	3.0

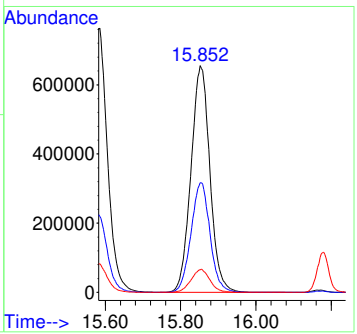


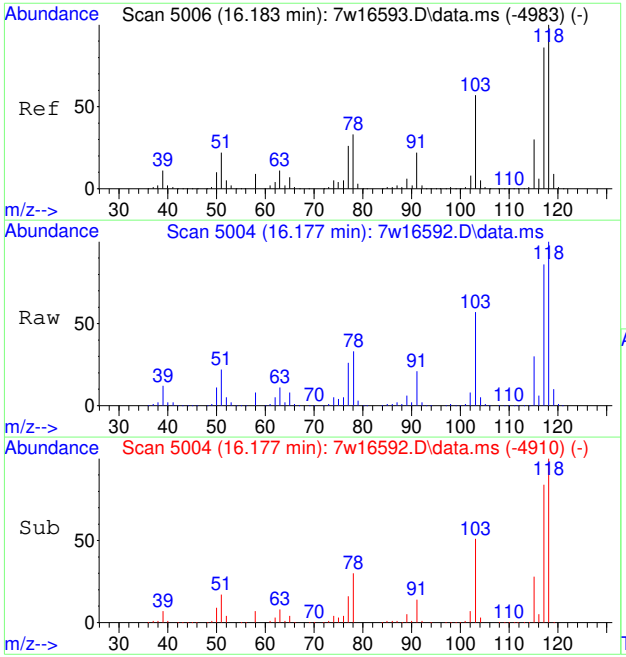


#93
1,3,5-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 15.852 min Scan# 4903
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2286498

Ion	Ratio	Lower	Upper
105	100		
120	48.6	34.0	63.2
91	10.1	7.3	13.7

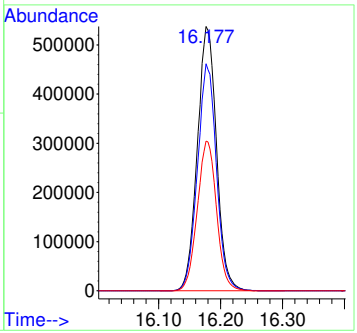


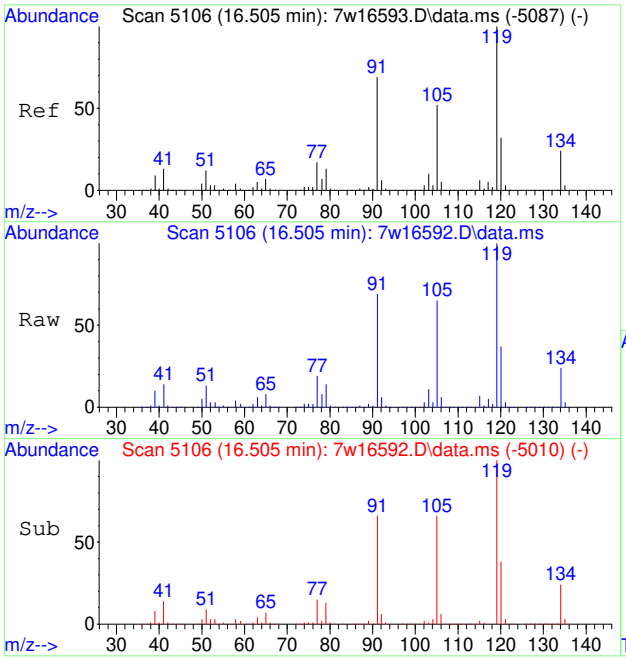


#94
ALPHA-METHYLSTYRENE
Concen: 43.69 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:118 Resp: 1155488

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.6	110.8
103	56.9	40.3	74.9

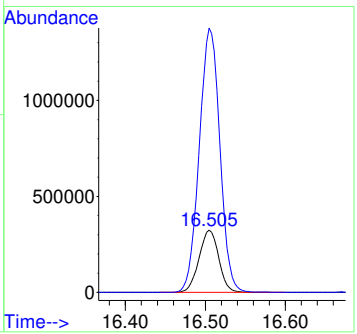


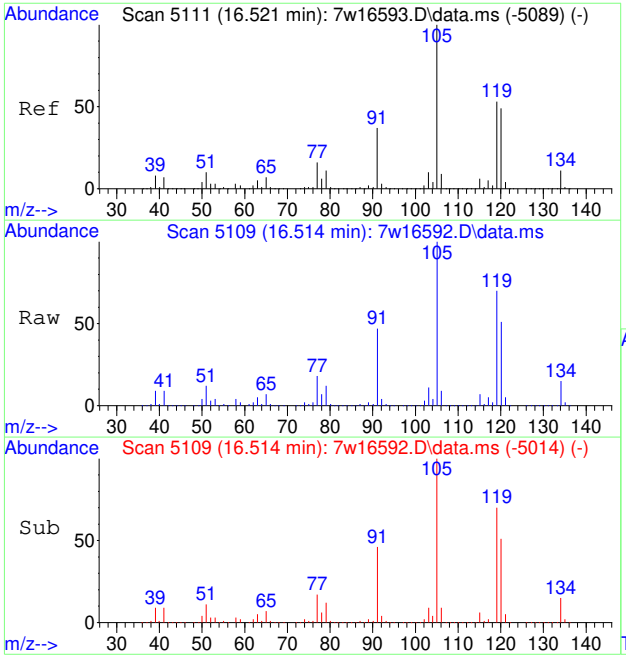


#95
TERT-BUTYLBENZENE
Concen: 41.12 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 554595

Ion	Ratio	Lower	Upper
134	100		
119	444.1	311.3	578.1

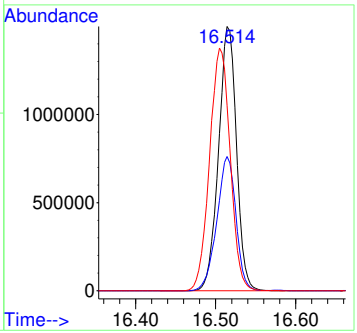


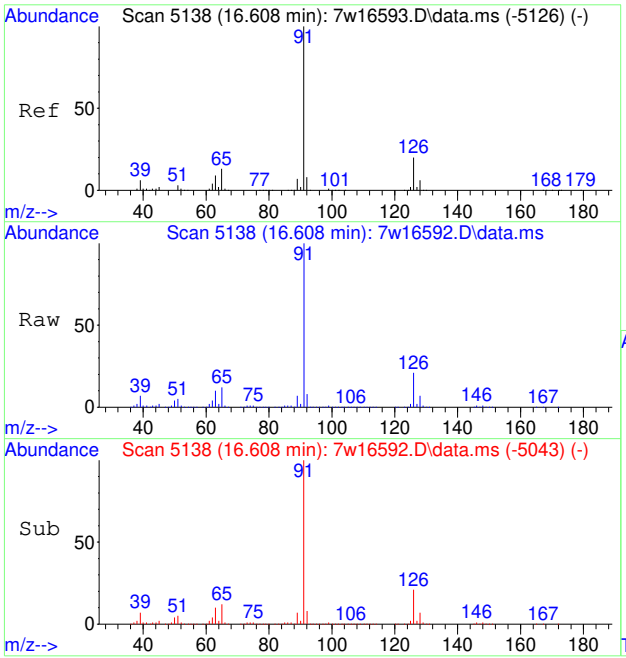


#96
1,2,4-TRIMETHYLBENZENE
Concen: 43.35 PPBV
RT: 16.514 min Scan# 5109
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2336862

Ion	Ratio	Lower	Upper
105	100		
120	54.3	37.9	70.5
119	105.4	74.3	137.9

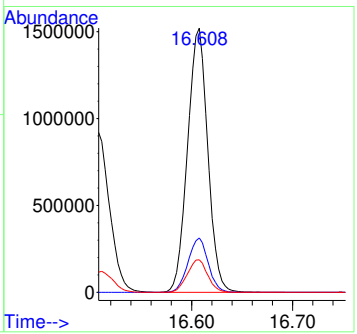


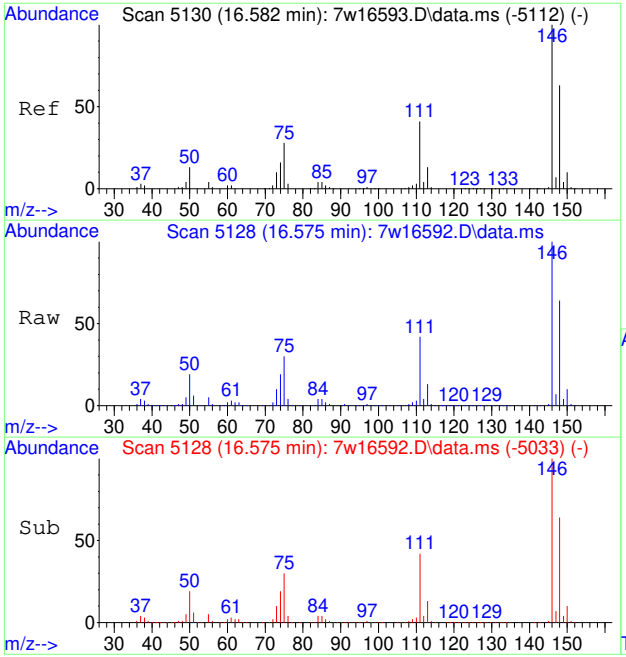


#97
BENZYL CHLORIDE
Concen: 52.85 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2115310

Ion	Ratio	Lower	Upper
91	100		
126	20.5	14.3	26.5
65	12.5	9.2	17.0

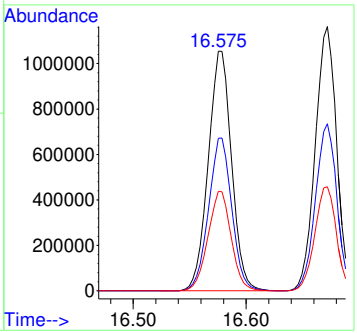


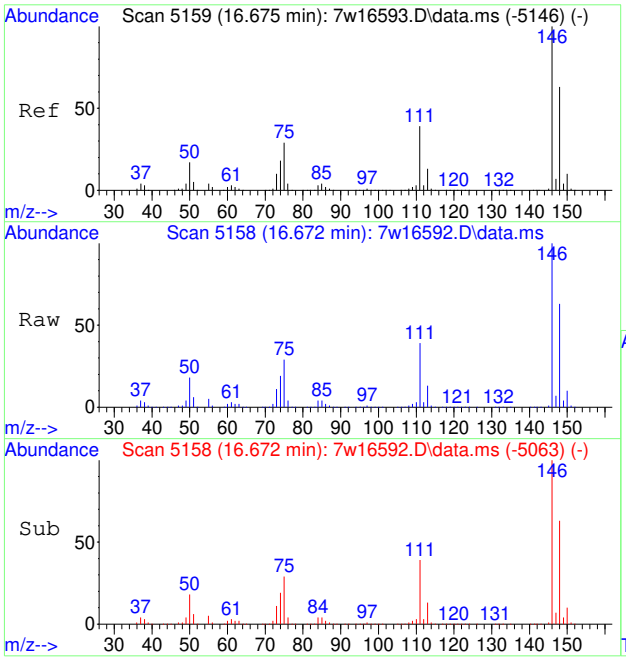


#98
M-DICHLOROBENZENE
Concen: 40.35 PPBV
RT: 16.575 min Scan# 5128
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1509487

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	41.3	29.3	54.3

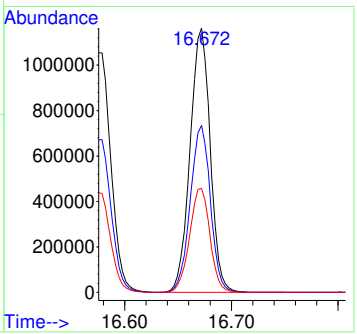


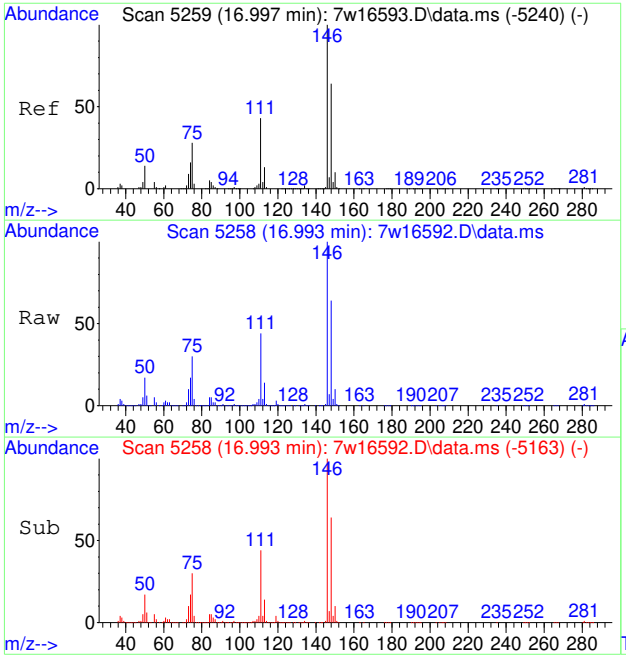


#99
P-DICHLOROBENZENE
Concen: 41.45 PPBV
RT: 16.672 min Scan# 5158
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1527061

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.2	82.2
111	39.9	28.0	52.0

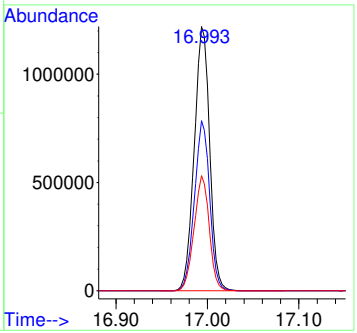


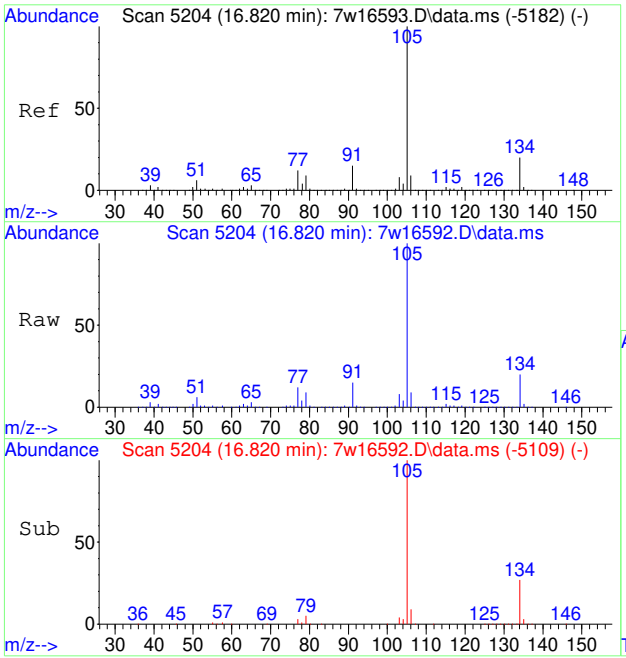


#100
O-DICHLOROBENZENE
Concen: 41.29 PPBV
RT: 16.993 min Scan# 5258
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1428015

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.2	82.2
111	42.9	30.4	56.4

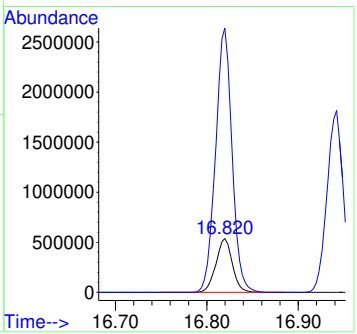


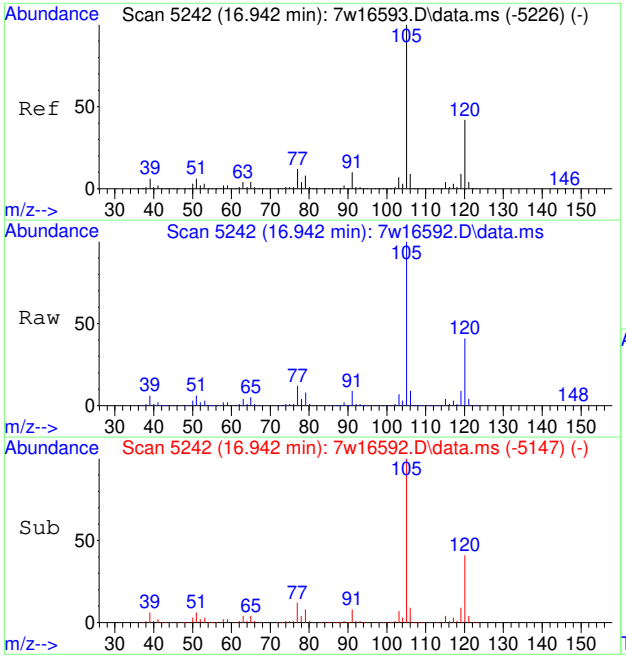


#101
SEC-BUTYLBENZENE
Concen: 42.40 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 675130

Ion	Ratio	Lower	Upper
134	100		
105	492.7	344.8	640.3

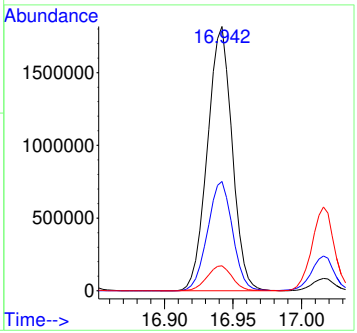


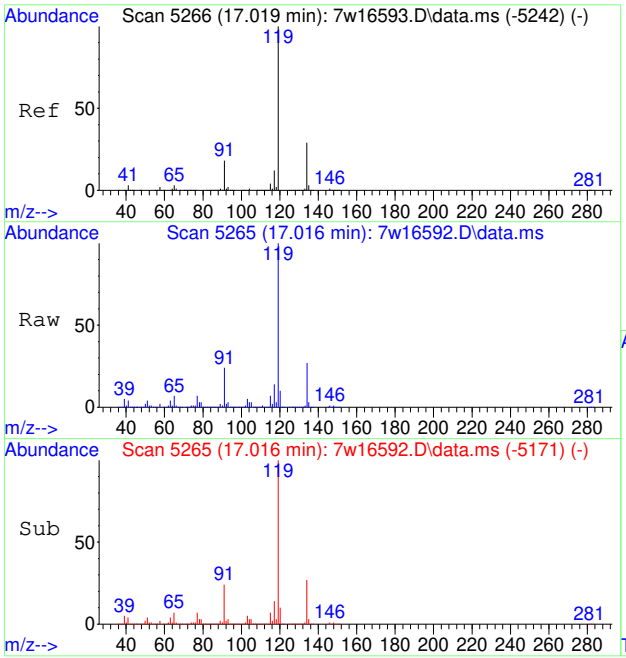


#102
1,2,3-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2270987

Ion	Ratio	Lower	Upper
105	100		
120	41.9	29.3	54.3
91	9.8	7.0	13.0

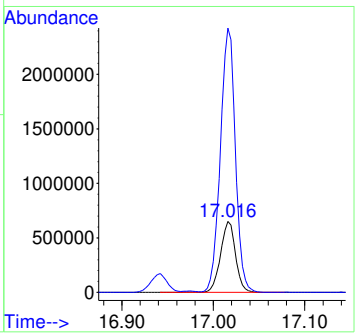


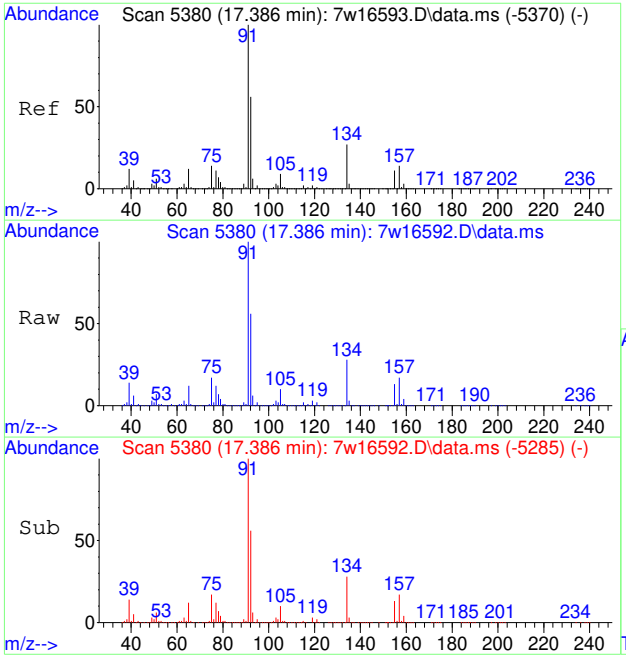


#103
P-ISOPROPYLTOLUENE
Concen: 42.05 PPBV
RT: 17.016 min Scan# 5265
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 742541

Ion	Ratio	Lower	Upper
134	100		
119	374.5	261.4	485.4

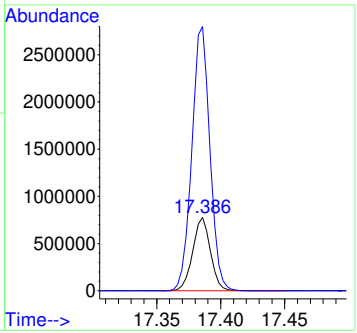


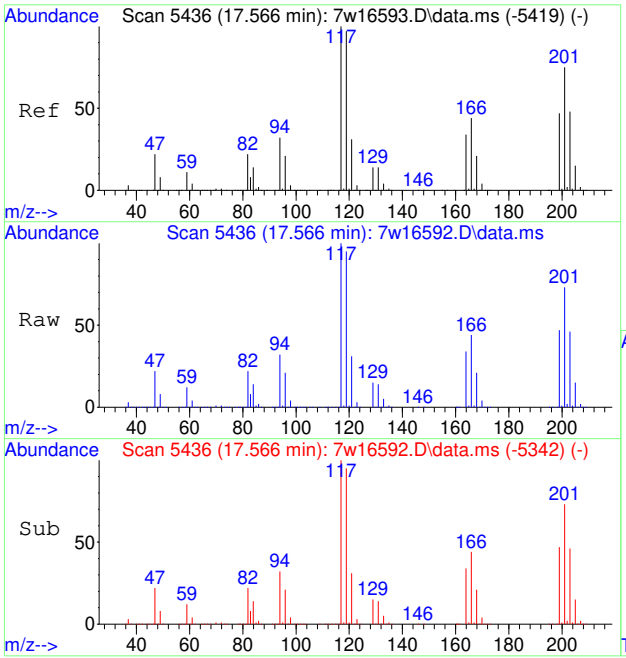


#104
N-BUTYLBENZENE
Concen: 45.09 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 743410

Ion	Ratio	Lower	Upper
134	100		
91	369.5	261.0	484.8

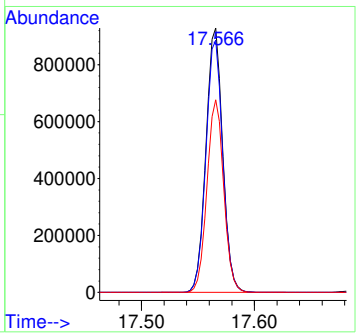


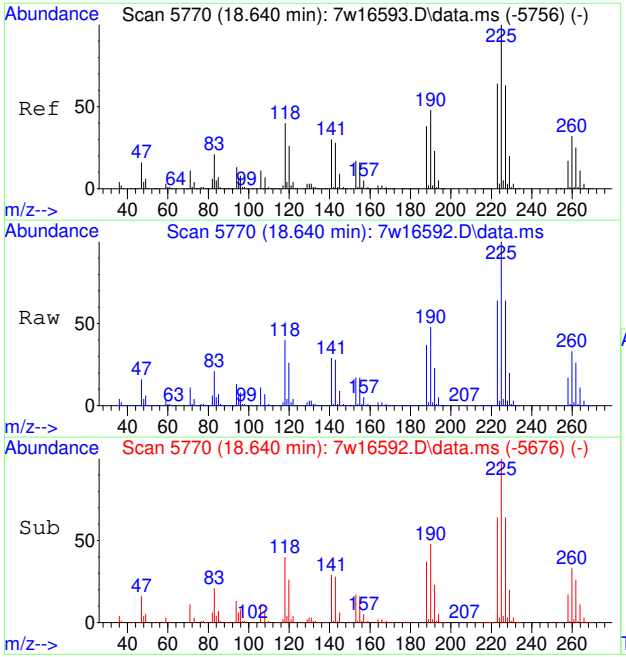


#105
HEXACHLOROETHANE
Concen: 47.76 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 951757

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	72.8	49.8	92.6

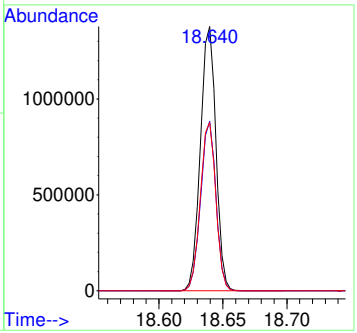


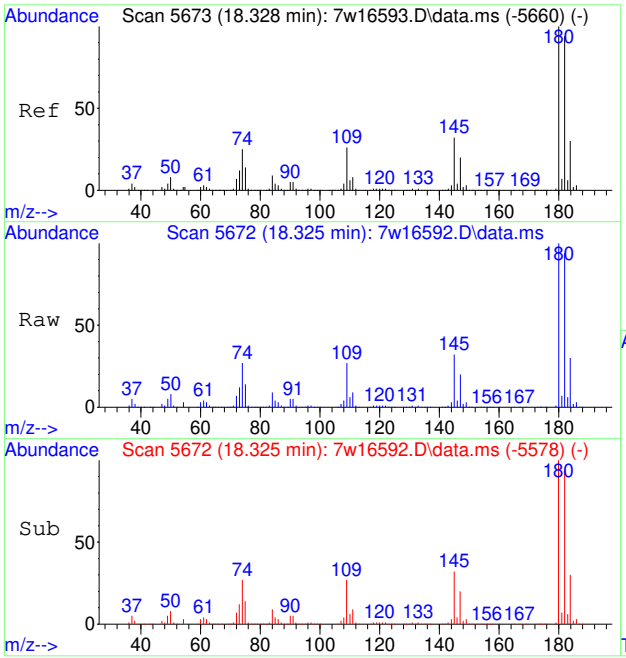


#106
HEXACHLOROBUTADIENE
Concen: 48.46 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:225 Resp: 1162376

Ion	Ratio	Lower	Upper
225	100		
227	63.3	44.6	82.8
223	63.6	44.6	82.8

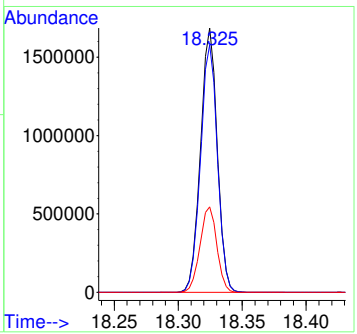


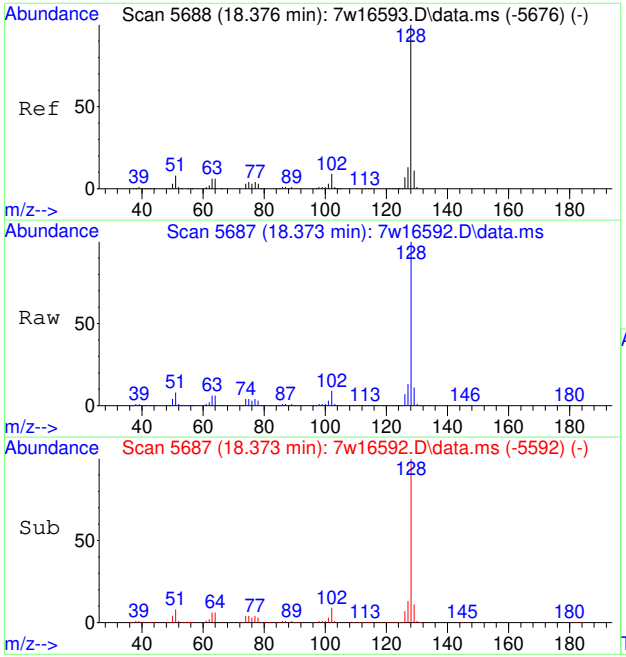


#107
1,2,4-TRICHLOROBENZENE
Concen: 56.96 PPBV
RT: 18.325 min Scan# 5672
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:180 Resp: 1534367

Ion	Ratio	Lower	Upper
180	100		
182	94.5	66.6	123.6
145	32.7	22.5	41.9

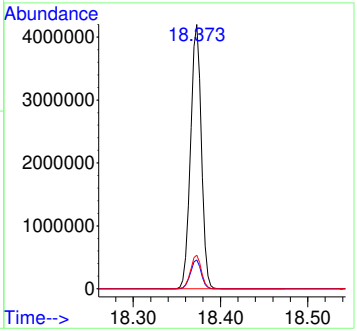


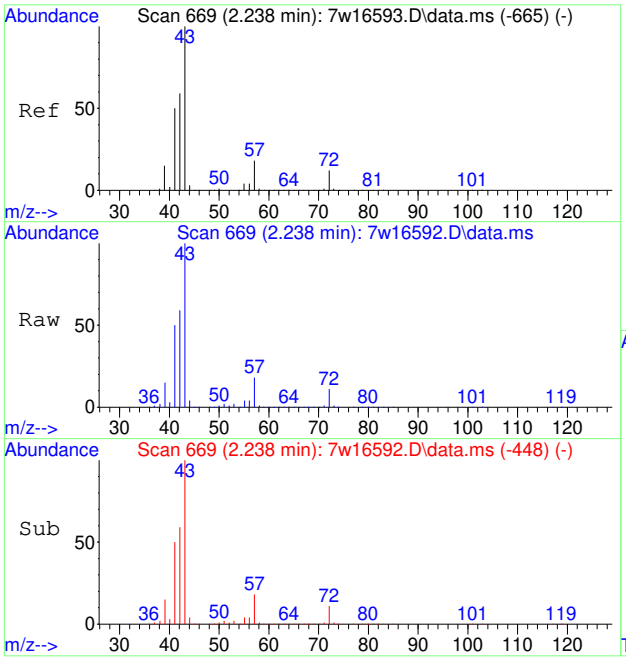


#108
NAPHTHALENE
Concen: 60.99 PPBV
RT: 18.373 min Scan# 5687
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:128 Resp: 3606459

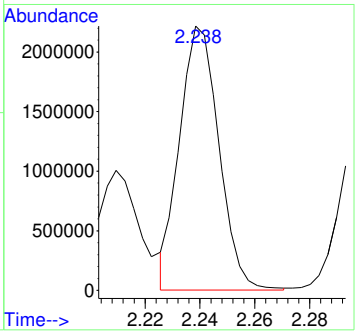
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.7	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 32.90 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:TIC Resp: 2205824



Manual Integration Approval Summary

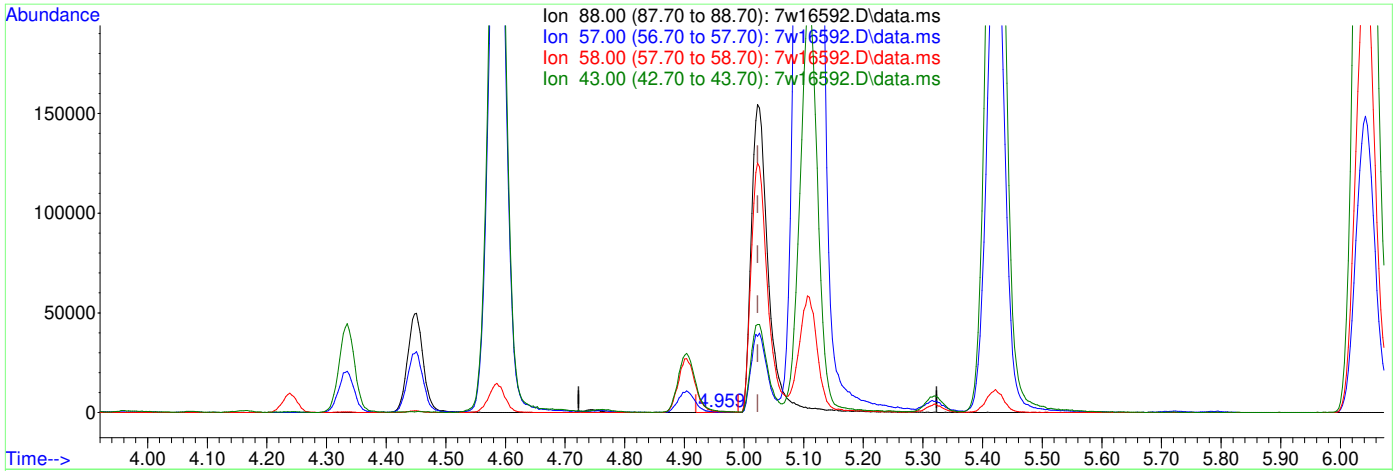
Sample Number: V7W577-IC577
Lab FileID: 7W16592.D
Injection Time: 08/07/25 14:30
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

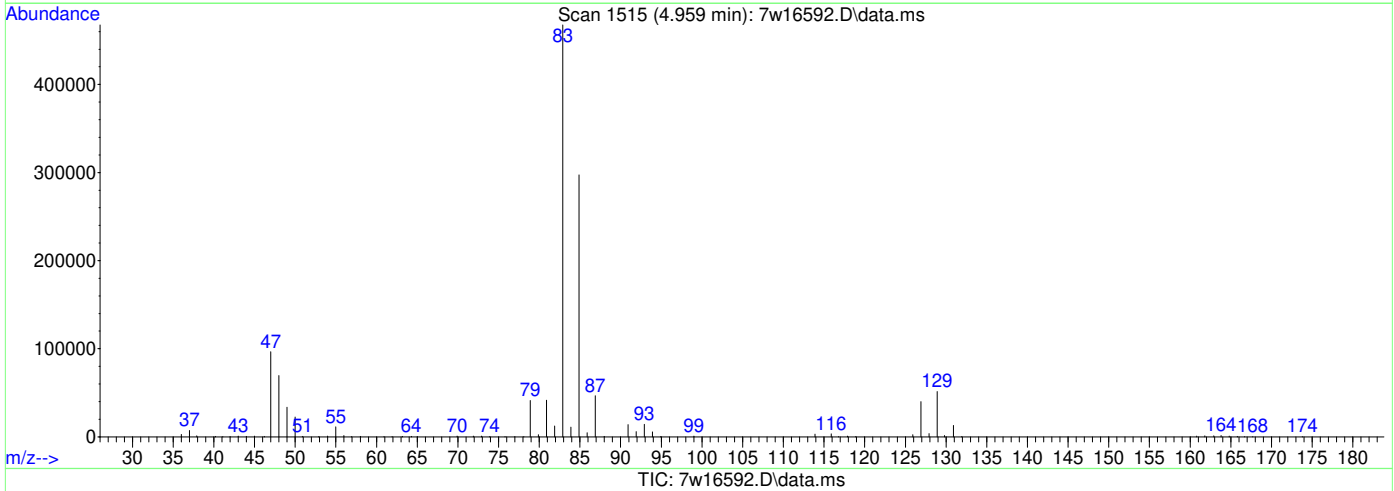
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.02	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

4.959min (-0.064) 0.14PPBV

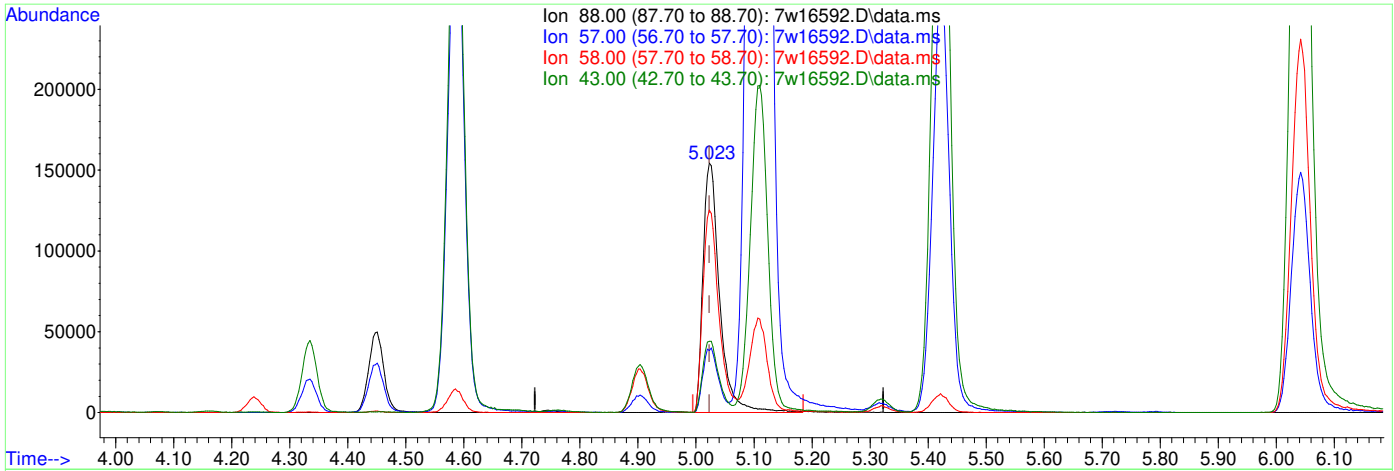
response 1156

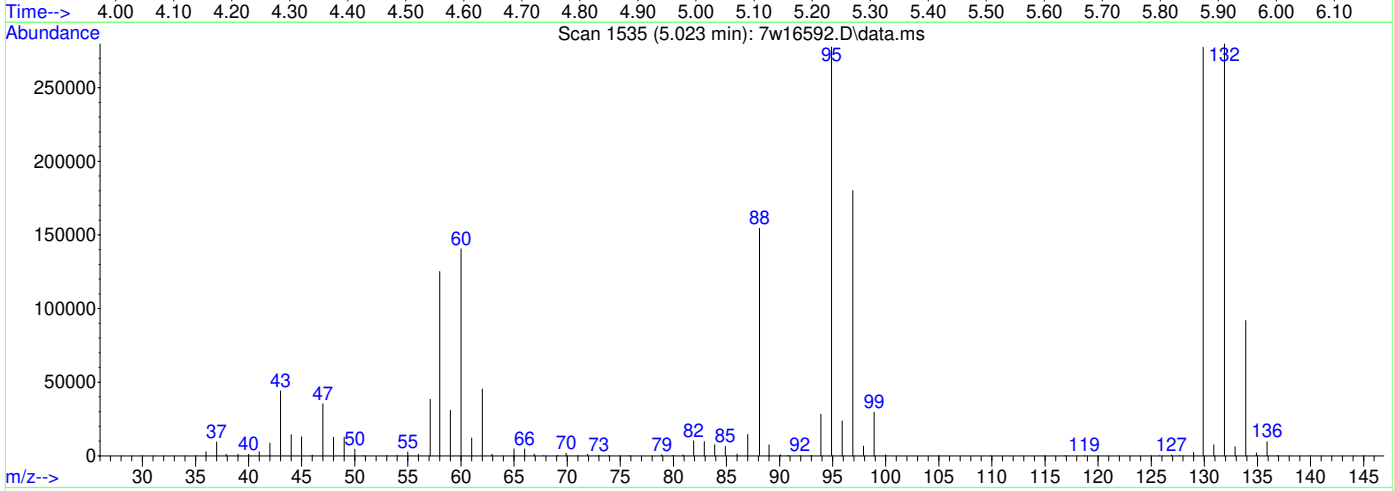
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

5.023min (+0.000) 38.33PPBV m

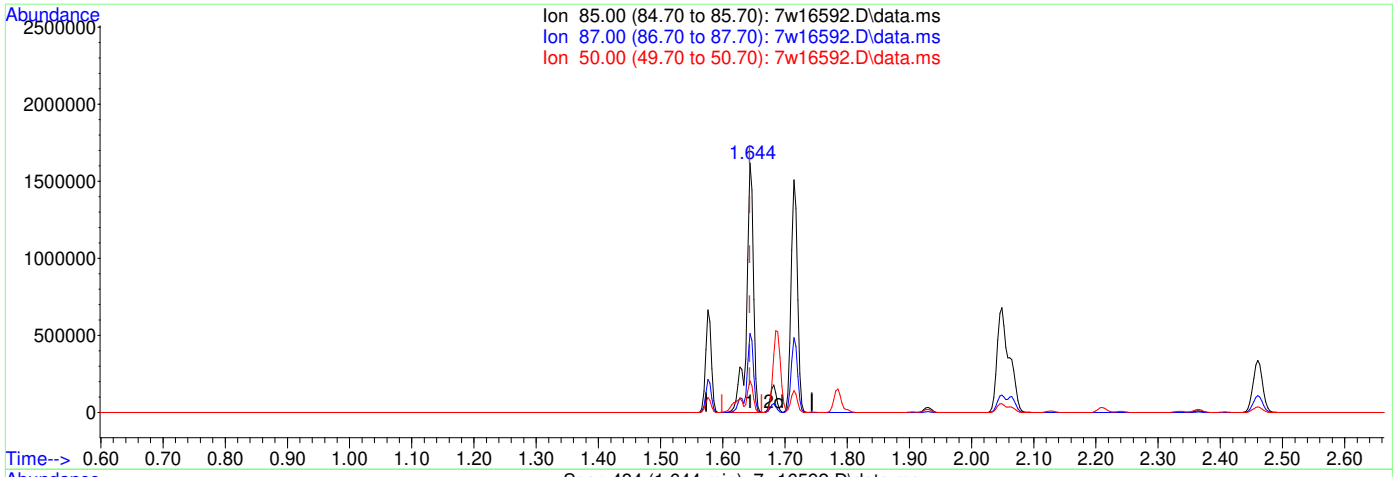
response 307098

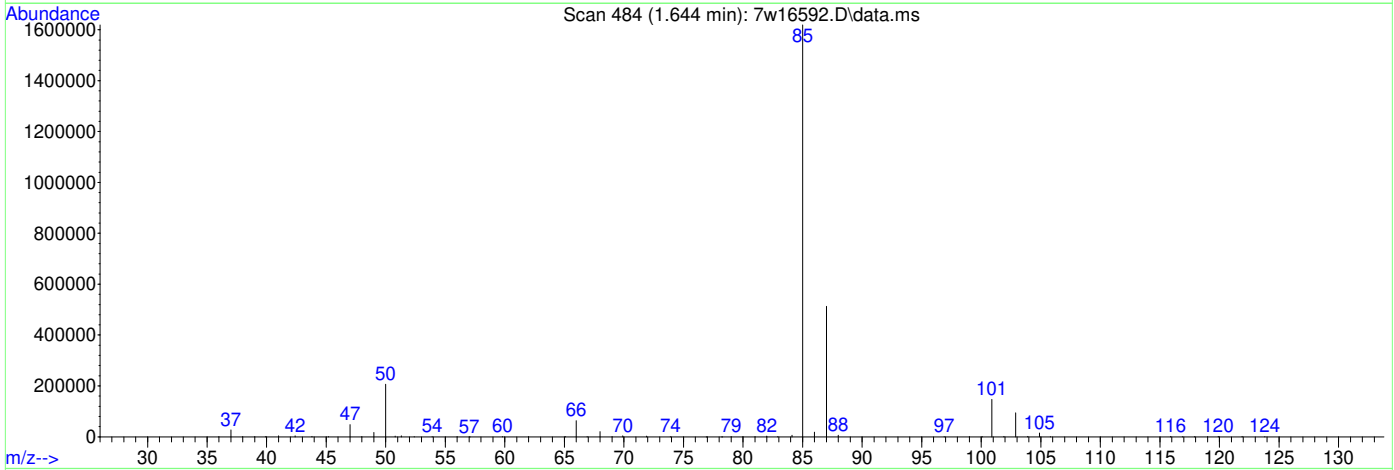
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 39.56PPBV

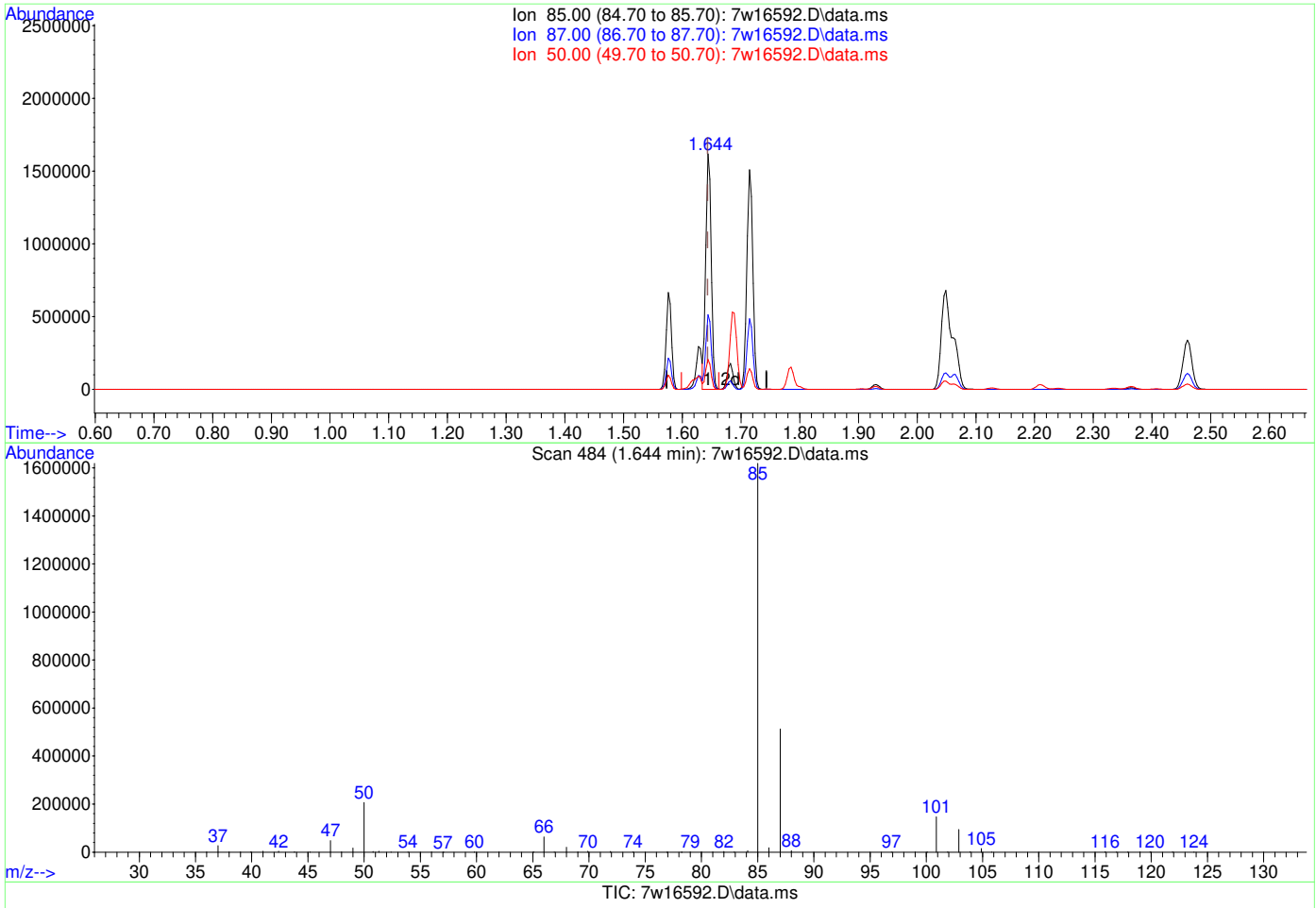
response 1248425

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.14
50.00	19.30	18.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration



TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 33.07PPBV m

response 1043482

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.45
50.00	19.30	22.36
0.00	0.00	0.00

7W16592.D edits: DICHLORODIFLUOROMETHANE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	105717	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	531881	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	494368	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	105715	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	398017	10.03	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	347161	52.39	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	153687	53.47	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	766747	56.03	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	1341049m	44.53	PPBV		
7) PROPYLENE	1.627	41	437361	50.49	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1168248	51.17	PPBV		99
9) FREON 114	1.714	85	1366824	52.31	PPBV		99
10) CHLOROMETHANE	1.688	52	180379	48.75	PPBV		99
11) VINYL CHLORIDE	1.746	62	644820	49.80	PPBV		100
12) 1,3-BUTADIENE	1.785	54	492846	47.75	PPBV		98
13) N-BUTANE	1.801	43	861032	49.00	PPBV		99
14) BROMOMETHANE	1.859	94	489029	48.47	PPBV		99
15) CHLOROETHANE	1.904	64	335126	47.41	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	1165217	47.65	PPBV		99
17) ACETONITRILE	1.994	41	492619	39.40	PPBV		99
18) ACROLEIN	2.033	56	284178	48.79	PPBV		99
19) FREON 123	2.049	83	1284287	52.41	PPBV		100
20) FREON 123A	2.065	117	752289	51.67	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1332114	47.77	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1144041	47.91	PPBV		99
23) ACETONE	2.071	58	315550	48.52	PPBV		94
24) PENTANE	2.238	42	600441	46.26	PPBV		99
25) IODOMETHANE	2.299	142	1336999	52.52	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	541882	51.15	PPBV		96
27) CARBON DISULFIDE	2.463	76	1536663	51.13	PPBV		97
28) ETHANOL	1.933	45	274276	42.83	PPBV		100
29) BROMOETHENE	2.004	106	503032	50.05	PPBV		100
30) ACRYLONITRILE	2.209	52	465157	51.19	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	488512	46.46	PPBV		94
32) 3-CHLOROPROPENE	2.406	76	282447	50.05	PPBV		93
33) FREON 113	2.460	151	827135	52.05	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	567495	48.66	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	1271463	42.60	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	1685636	50.99	PPBV		99
37) TETRAHYDROFURAN	3.463	72	264475	49.92	PPBV		98
38) HEXANE	3.241	57	1126153	50.43	PPBV		95
39) VINYL ACETATE	2.827	86	168950	54.22	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	1126676	50.17	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	301446	49.43	PPBV		97
42) CIS-1,2-DICHLOROETHENE	3.116	96	616786	51.36	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	322160	51.01	PPBV		92
44) ETHYL ACETATE	3.251	61	229745	54.48	PPBV		86
45) METHYL ACRYLATE	3.238	55	1386411	51.53	PPBV	#	100
46) CHLOROFORM	3.264	83	1180563	50.69	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1310498	52.75	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1267195	51.99	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1338340	53.55	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	918746	51.11	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	BENZENE	4.129	78	1795488	50.31	PPBV	99
53)	CYCLOHEXANE	4.335	84	810673	52.10	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.589	71	421378	54.59	PPBV	99
55)	TRICHLOROETHENE	5.020	95	808299	48.49	PPBV	99
56)	1,2-DICHLOROPROPANE	4.788	63	756985	51.61	PPBV	99
57)	DIBROMOMETHANE	4.749	174	703285	49.34	PPBV	98
58)	ETHYL ACRYLATE	4.907	55	1751040	53.53	PPBV	100
59)	BROMODICHLOROMETHANE	4.968	83	1363903	51.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	3474233	47.72	PPBV	100
61)	1,4-DIOXANE	5.023	88	402995	51.97	PPBV	98
62)	HEPTANE	5.421	43	1183014	49.34	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	696280	52.38	PPBV	96
64)	METHYL ISOBUTYL KETONE	6.045	58	692709	48.13	PPBV	98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	1209649	54.68	PPBV	97
66)	TOLUENE	7.138	91	2257380	53.54	PPBV	99
67)	1,3-DICHLOROPROPANE	7.200	76	1150031	54.57	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	1086853	55.09	PPBV	98
69)	1,1,2-TRICHLOROETHANE	6.772	83	657452	55.07	PPBV	99
70)	2-HEXANONE	7.701	58	931287	45.78	PPBV	97
71)	ETHYL METHACRYLATE	7.839	69	1191952	54.01	PPBV	98
72)	TETRACHLOROETHENE	8.852	164	838148	54.58	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.666	129	1403452	58.86	PPBV	100
74)	1,2-DIBROMOETHANE	8.010	107	1223967	56.46	PPBV	100
75)	OCTANE	9.003	43	1670114	52.30	PPBV	99
77)	1,1,1,2-TETRACHLOROETHANE	10.068	131	1014574	57.95	PPBV	100
78)	CHLOROBENZENE	10.055	112	1847440	54.82	PPBV	99
79)	ETHYLBENZENE	10.936	91	3062670	55.49	PPBV	100
80)	M,P-XYLENE	11.363	91	4688509	104.27	PPBV	90
81)	O-XYLENE	12.293	91	2383048	54.76	PPBV	98
82)	STYRENE	12.080	104	1884473	58.71	PPBV	99
83)	NONANE	13.415	43	1775546	52.08	PPBV	98
84)	BROMOFORM	11.174	173	1265430	63.02	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.309	83	1733579	55.83	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.592	75	1360230	55.93	PPBV	100
88)	ISOPROPYLBENZENE	13.804	120	894931	54.23	PPBV	98
89)	BROMOBENZENE	13.669	77	1702334	53.56	PPBV	99
90)	2-CHLOROTOLUENE	14.797	126	829710	54.34	PPBV	100
91)	N-PROPYLBENZENE	15.138	120	961239	55.42	PPBV	100
92)	4-ETHYLTOLUENE	15.582	105	3566781	55.47	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.858	105	2975442	55.47	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.183	118	1513322	57.73	PPBV	99
95)	TERT-BUTYLBENZENE	16.505	134	714841	54.19	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3037196	57.25	PPBV	99
97)	BENZYL CHLORIDE	16.608	91	2795409	68.69	PPBV	99
98)	M-DICHLOROBENZENE	16.582	146	1958237	53.40	PPBV	100
99)	P-DICHLOROBENZENE	16.675	146	1991134	55.15	PPBV	100
100)	O-DICHLOROBENZENE	16.997	146	1868131	55.08	PPBV	100
101)	SEC-BUTYLBENZENE	16.820	134	879244	56.32	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2956799	55.49	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.019	134	964439	55.64	PPBV	99
104)	N-BUTYLBENZENE	17.386	134	974353	59.74	PPBV	97
105)	HEXACHLOROETHANE	17.566	117	1246101	62.73	PPBV	98
106)	HEXACHLOROBUTADIENE	18.640	225	1541106	64.95	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2093092	76.81	PPBV	99
108)	NAPHTHALENE	18.376	128	4901356	81.19	PPBV	99
110)	TVHC as equiv Pentane	2.238	TIC	2811423	45.25	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

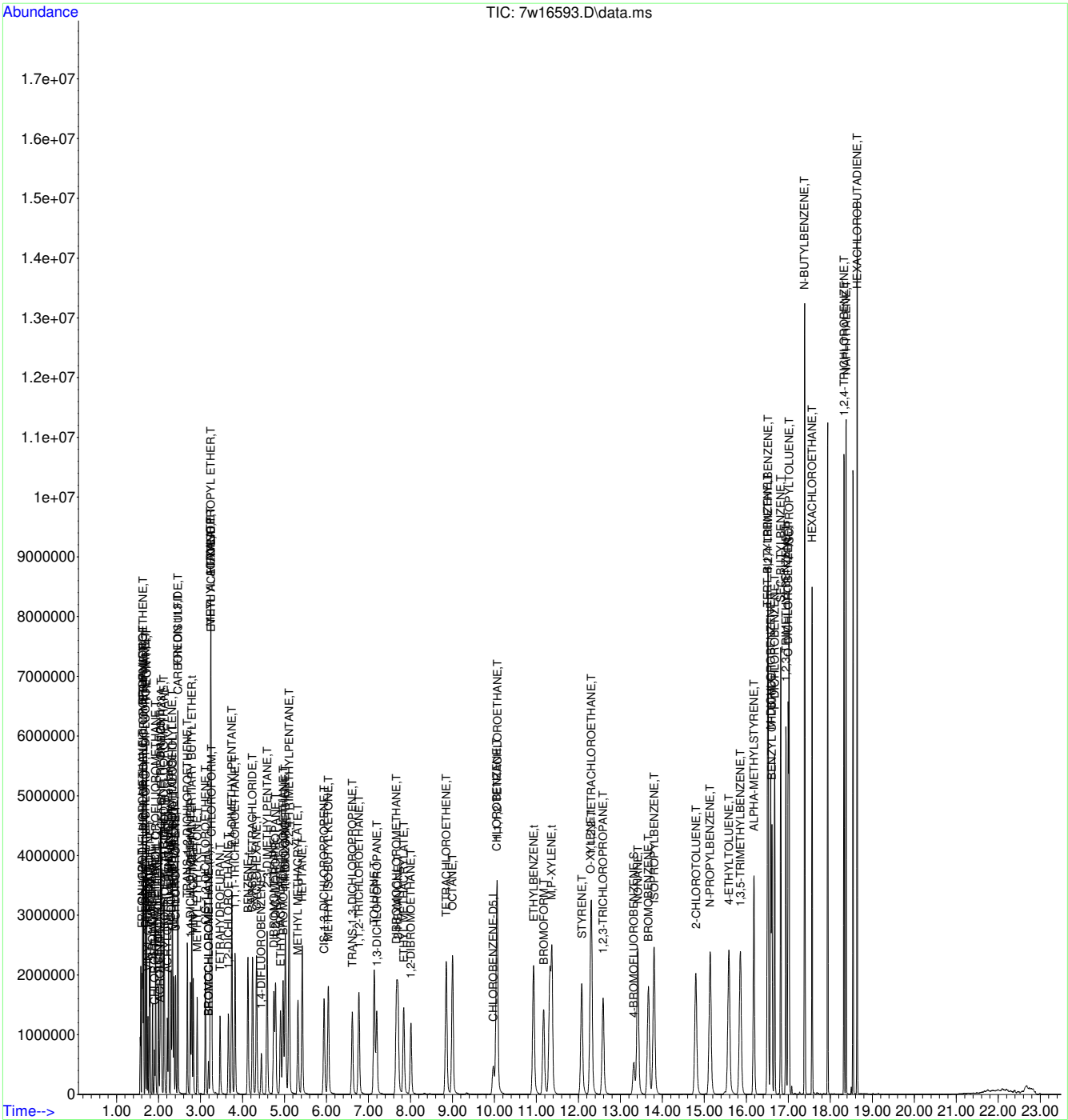
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

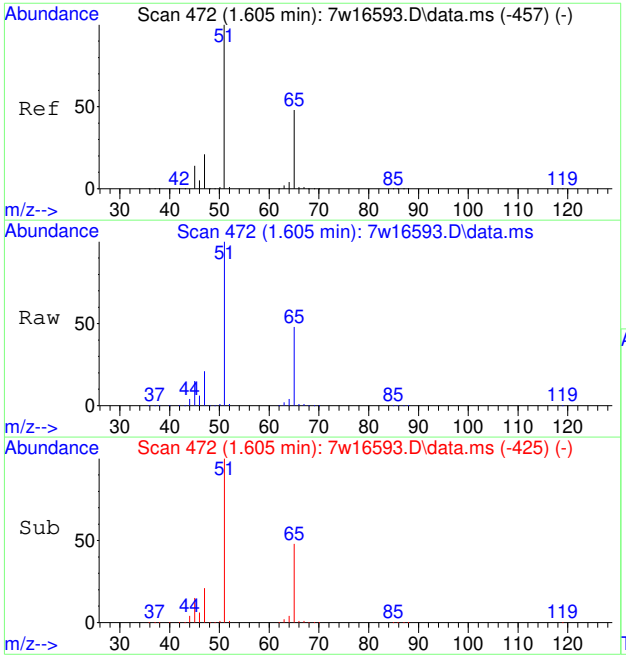
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

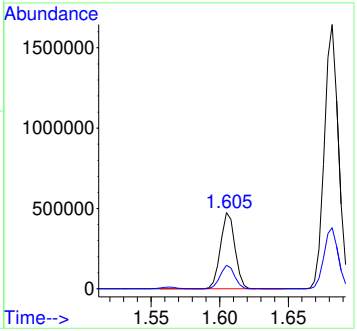


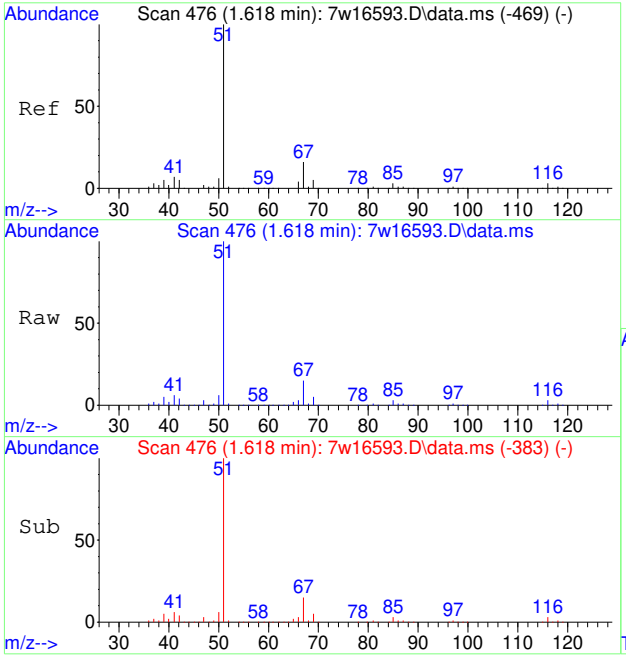


#3
FREON 152A
Concen: 52.39 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 347161

Ion	Ratio	Lower	Upper
65	100		
45	30.7	23.0	42.8

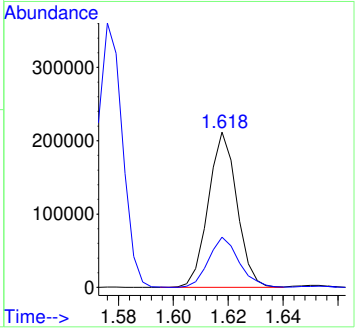


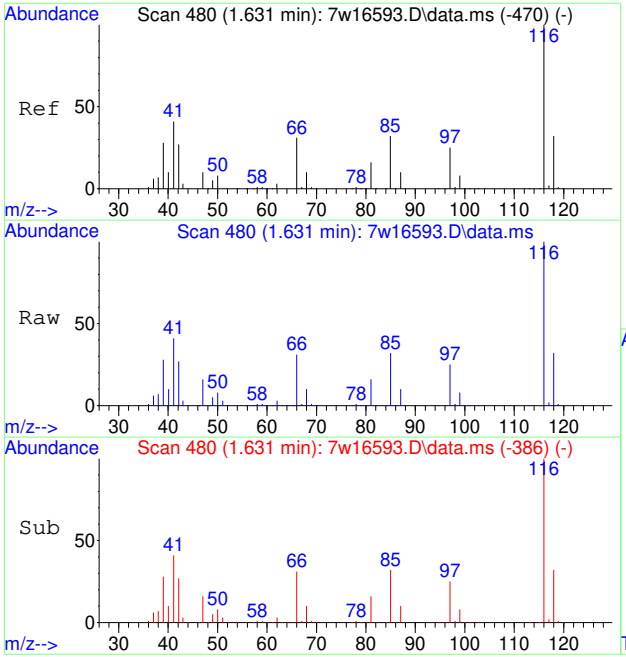


#4
CHLORODIFLUOROMETHANE
Concen: 53.47 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 153687

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

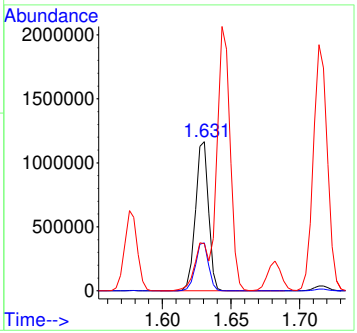


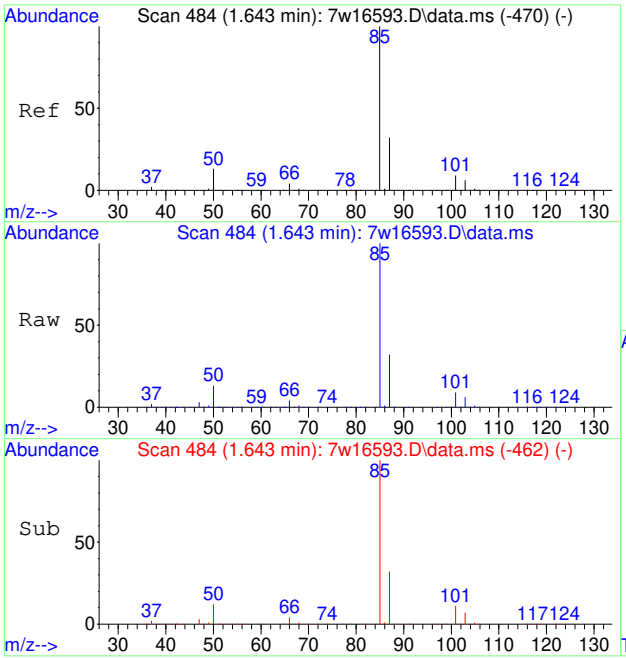


#5
CHLOROTRIFLUOROETHENE
Concen: 56.03 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:116 Resp: 766747

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	209.5	152.4	283.0

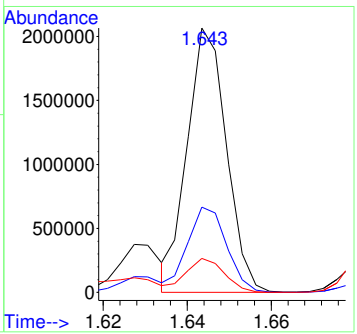


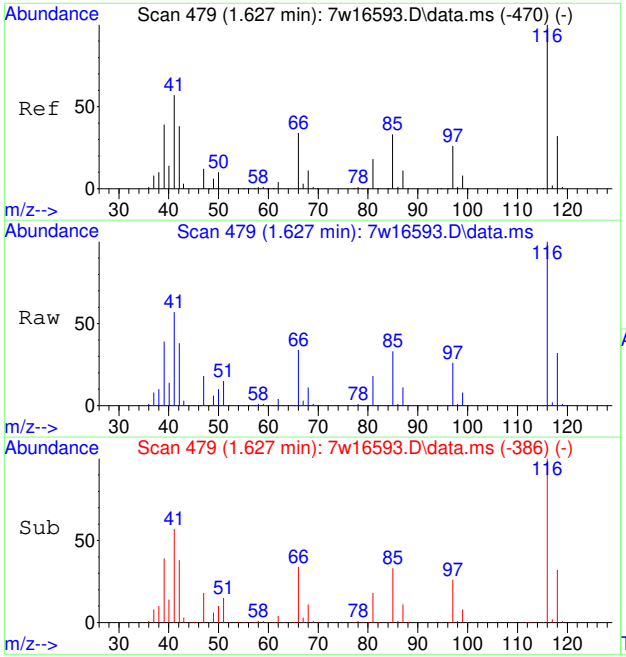


#6
DICHLORODIFLUOROMETHANE
Concen: 44.53 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1341049

Ion	Ratio	Lower	Upper
85	100		
87	38.9	23.0	42.6
50	22.3	13.5	25.1

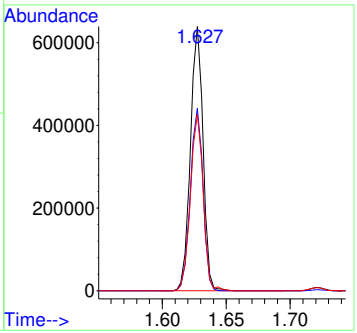


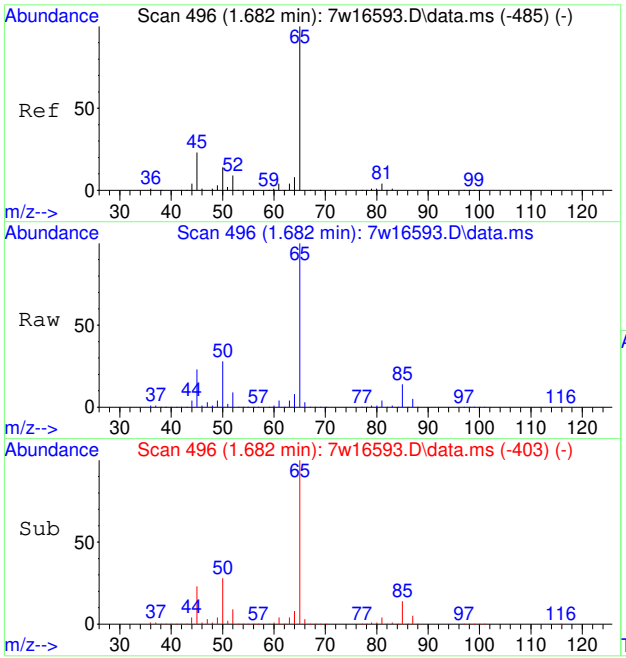


#7
PROPYLENE
Concen: 50.49 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 437361

Ion	Ratio	Lower	Upper
41	100		
39	69.4	50.5	93.7
42	67.7	47.0	87.4

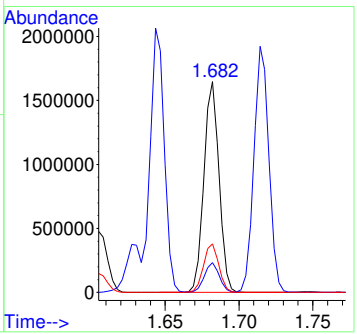


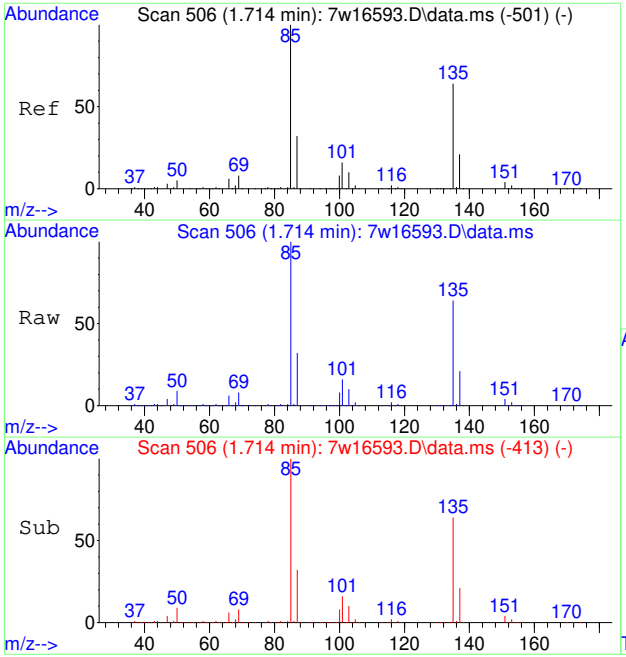


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 51.17 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 1168248

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

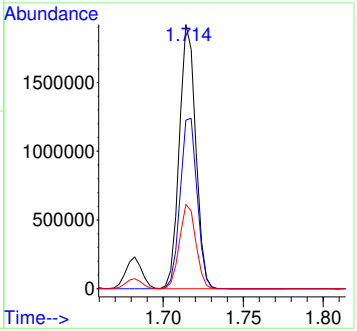


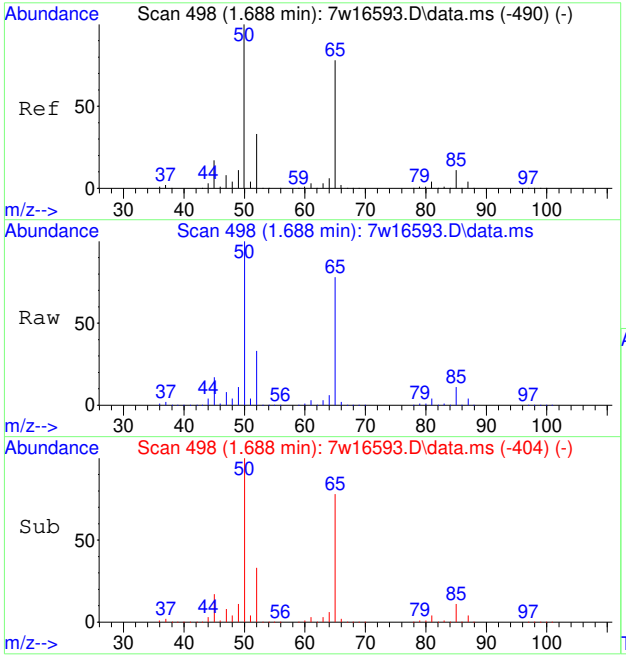


#9
FREON 114
Concen: 52.31 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1366824

Ion	Ratio	Lower	Upper
85	100		
135	66.9	46.1	85.7
87	32.1	22.6	42.0

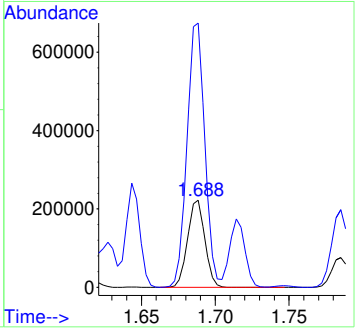


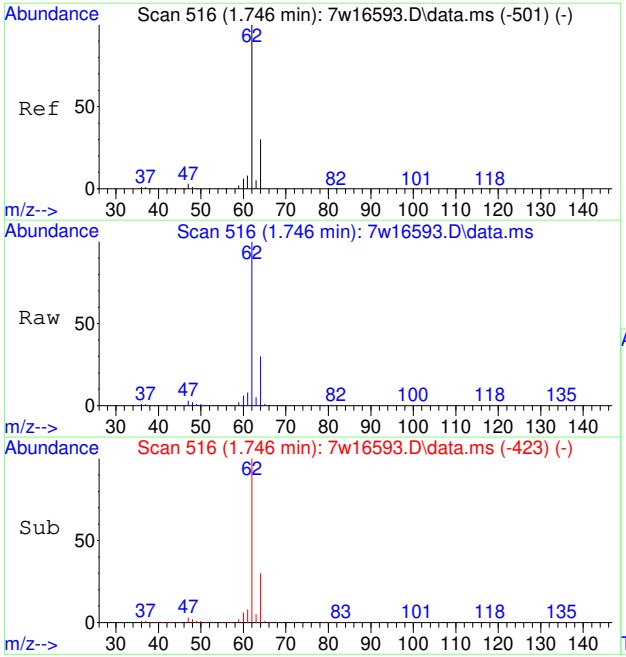


#10
CHLOROMETHANE
Concen: 48.75 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 180379

Ion	Ratio	Lower	Upper
52	100		
50	319.4	225.6	419.0

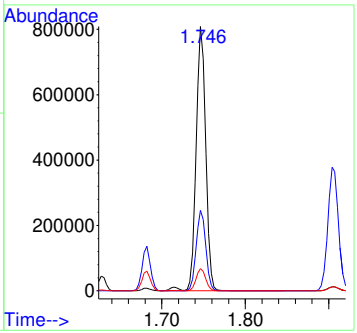


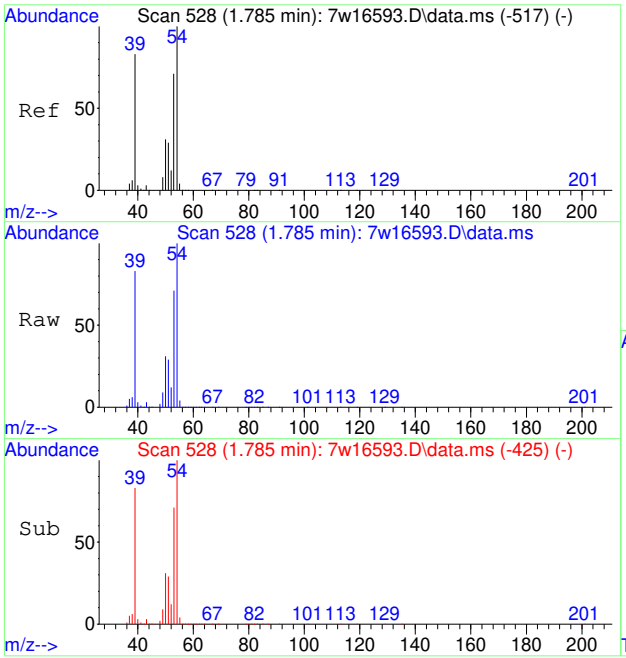


#11
VINYL CHLORIDE
Concen: 49.80 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 644820

Ion	Ratio	Lower	Upper
62	100		
64	30.3	21.3	39.6
61	8.5	5.7	10.5

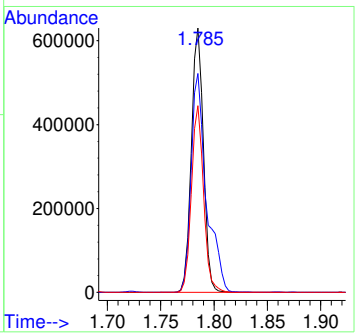


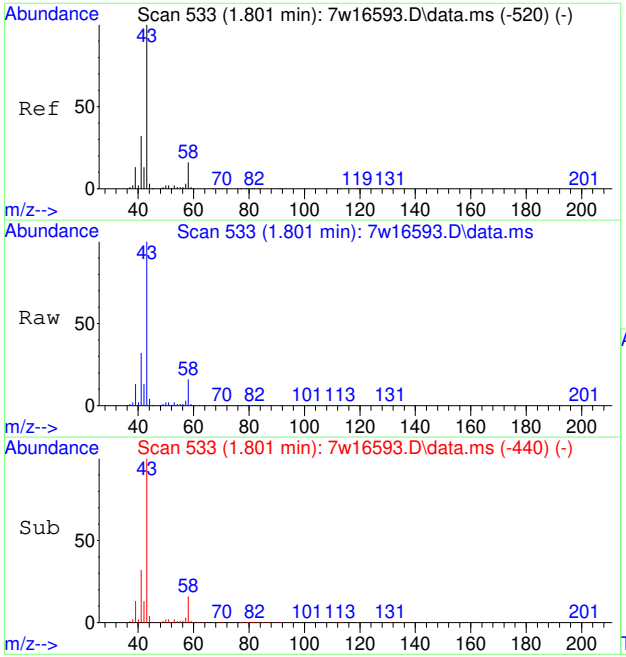


#12
1,3-BUTADIENE
Concen: 47.75 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 54 Resp: 492846

Ion	Ratio	Lower	Upper
54	100		
39	105.5	78.4	138.4
53	71.6	40.9	100.9

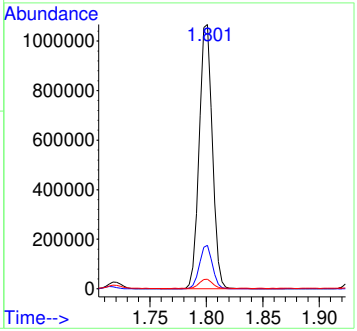


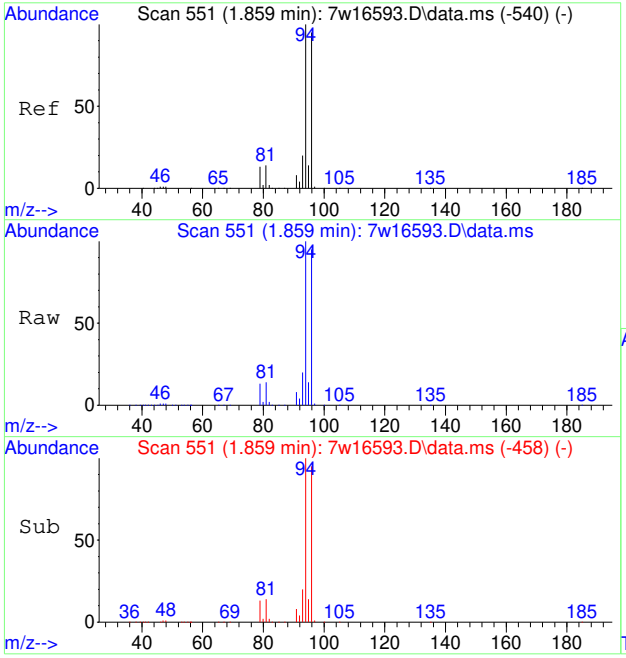


#13
N-BUTANE
Concen: 49.00 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 861032

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.6	2.6	4.8

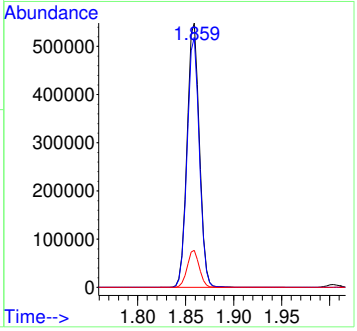


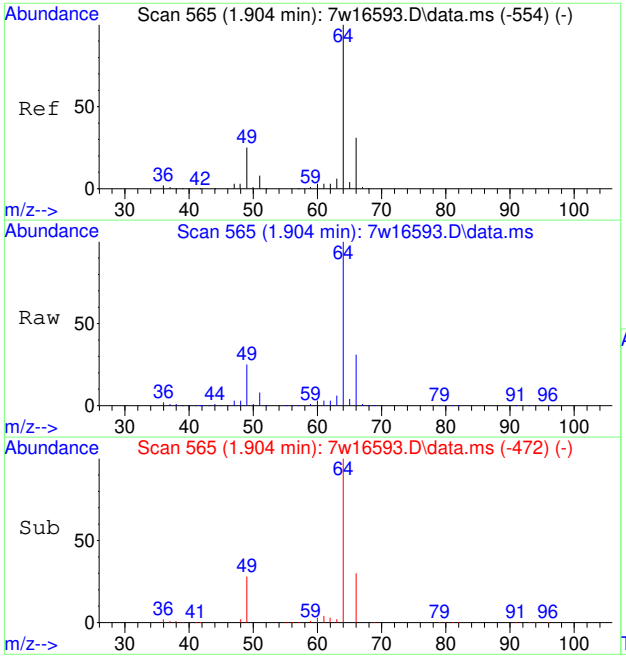


#14
BROMOMETHANE
Concen: 48.47 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 94 Resp: 489029

Ion	Ratio	Lower	Upper
94	100		
96	93.9	66.1	122.7
95	13.8	9.9	18.3

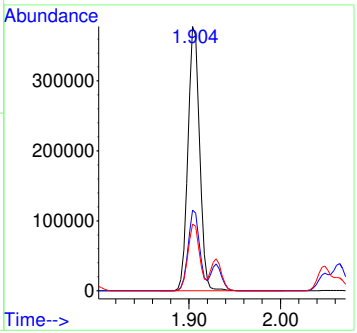


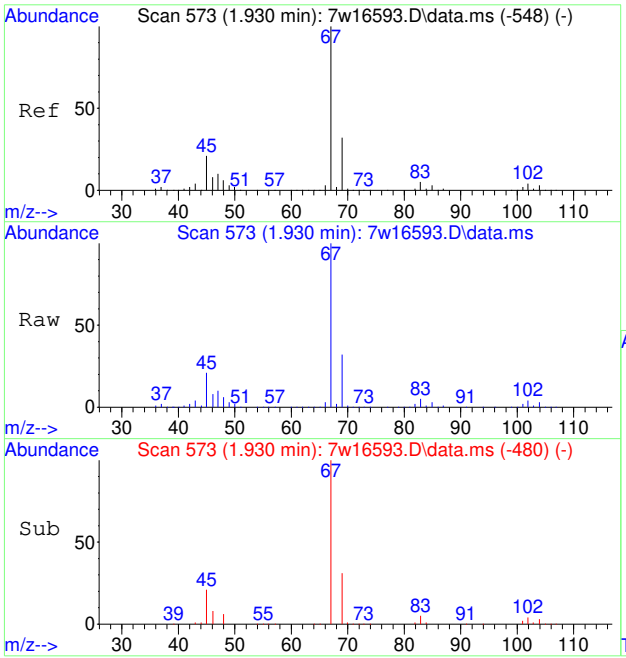


#15
CHLOROETHANE
Concen: 47.41 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 64 Resp: 335126

Ion	Ratio	Lower	Upper
64	100		
66	30.6	21.5	39.9
49	26.0	19.0	35.4

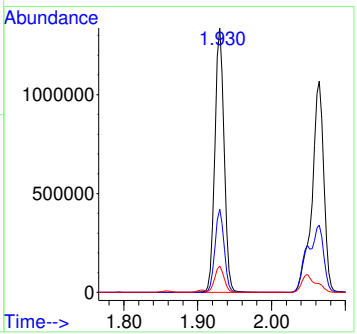


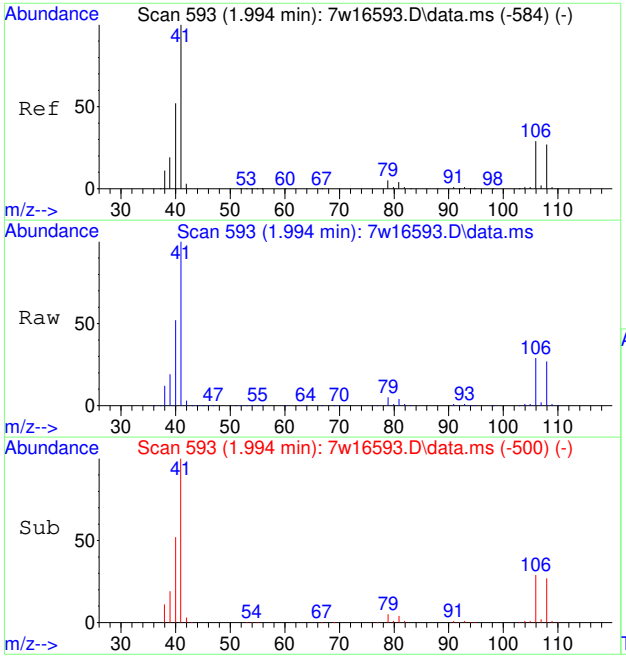


#16
DICHLOROFLUOROMETHANE
Concen: 47.65 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 1165217

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

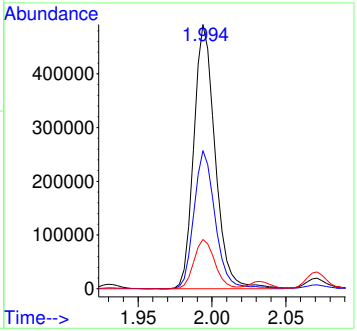


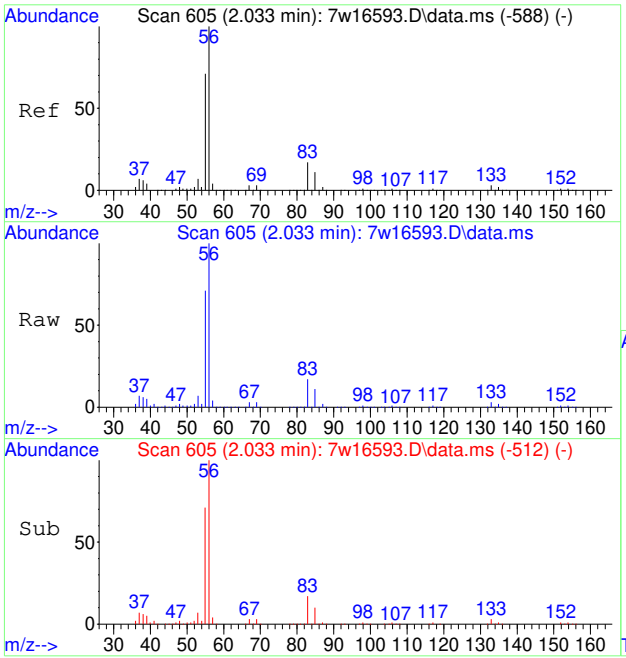


#17
ACETONITRILE
Concen: 39.40 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 492619

Ion	Ratio	Lower	Upper
41	100		
40	52.0	36.7	68.1
39	18.3	13.1	24.3

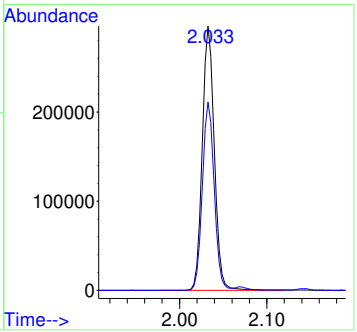


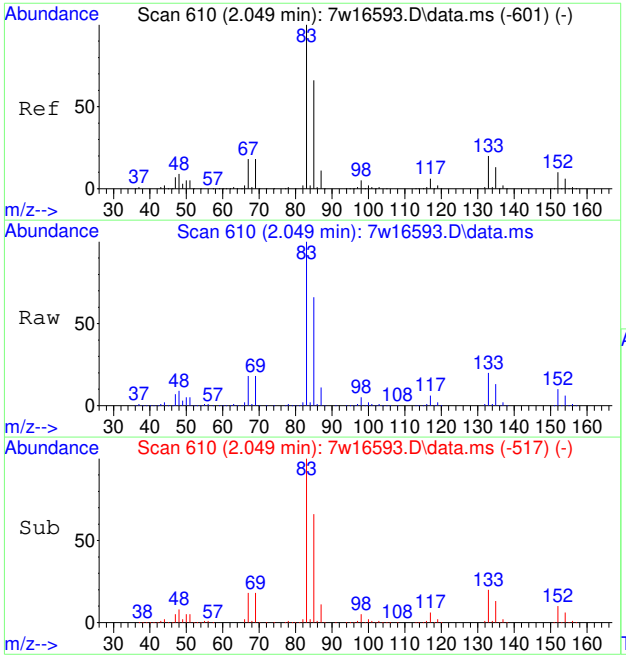


#18
ACROLEIN
Concen: 48.79 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 56 Resp: 284178

Ion	Ratio	Lower	Upper
56	100		
55	70.2	48.9	90.7

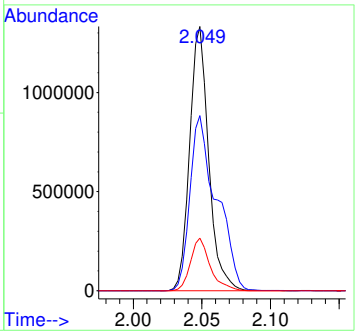


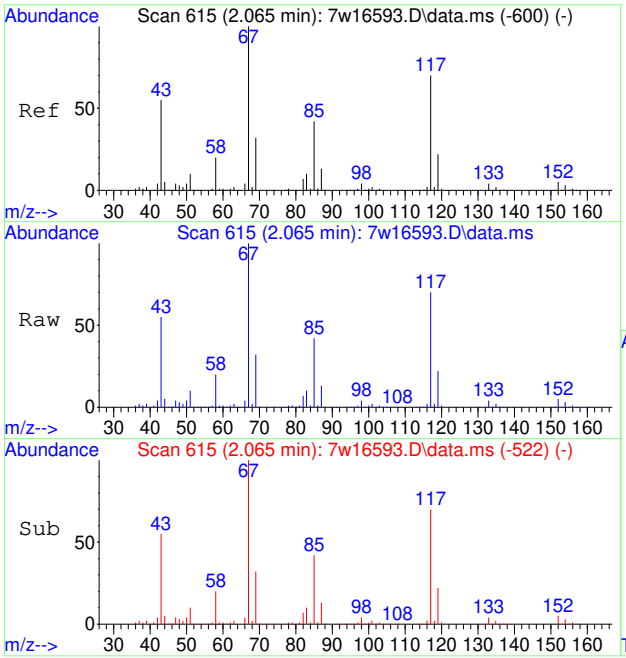


#19
FREON 123
Concen: 52.41 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1284287

Ion	Ratio	Lower	Upper
83	100		
85	92.9	64.9	120.5
133	20.7	14.7	27.3

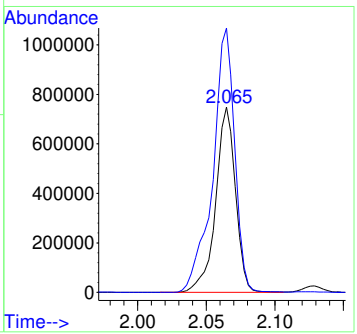


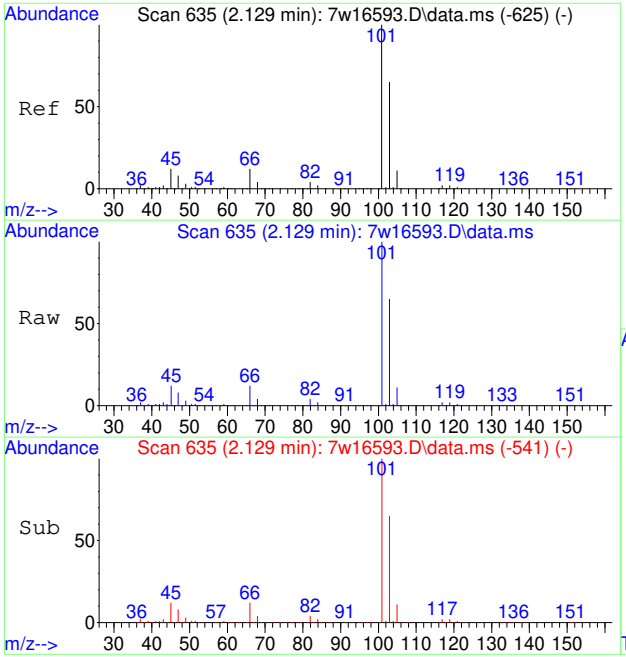


#20
FREON 123A
Concen: 51.67 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 752289

Ion	Ratio	Lower	Upper
117	100		
67	157.8	111.3	206.7

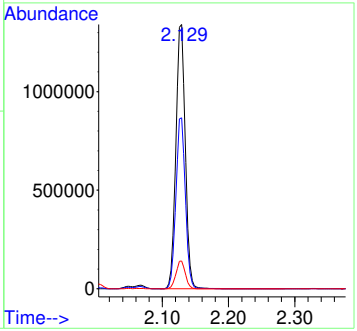


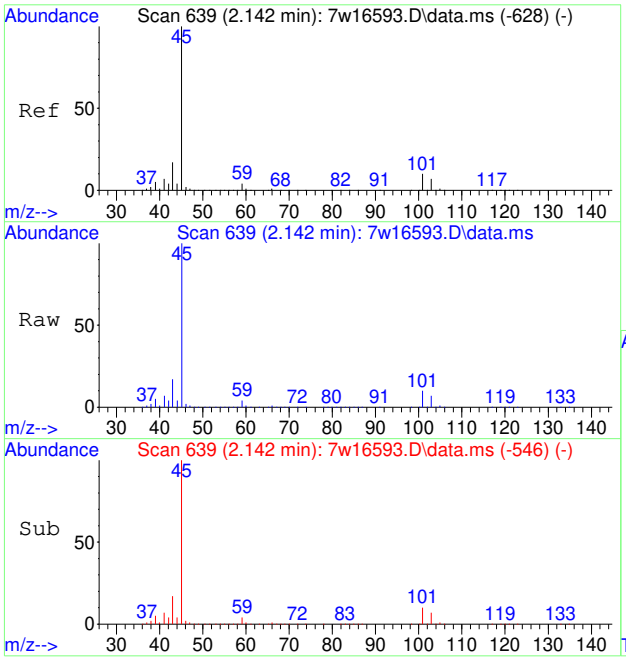


#21
TRICHLOROFLUOROMETHANE
Concen: 47.77 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:101 Resp: 1332114

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.5	7.3	13.5

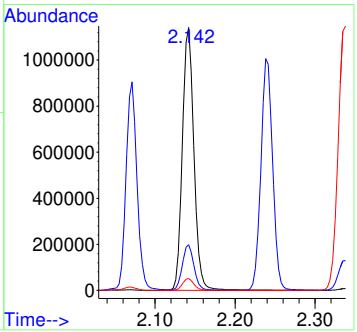


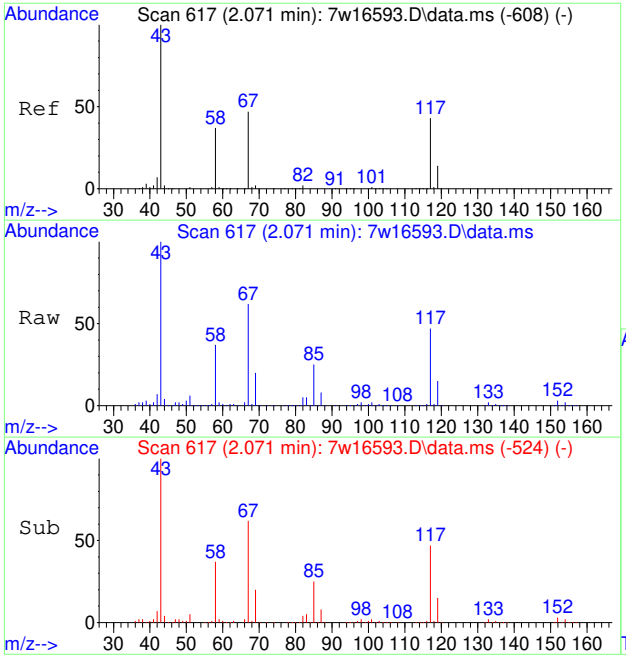


#22
ISOPROPYL ALCOHOL
Concen: 47.91 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 1144041

Ion	Ratio	Lower	Upper
45	100		
43	17.6	12.5	23.3
59	4.5	3.1	5.7

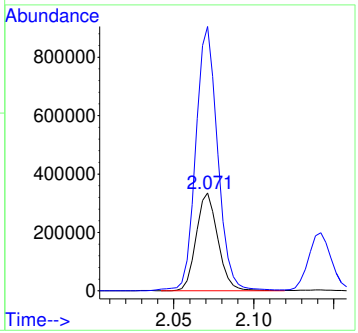


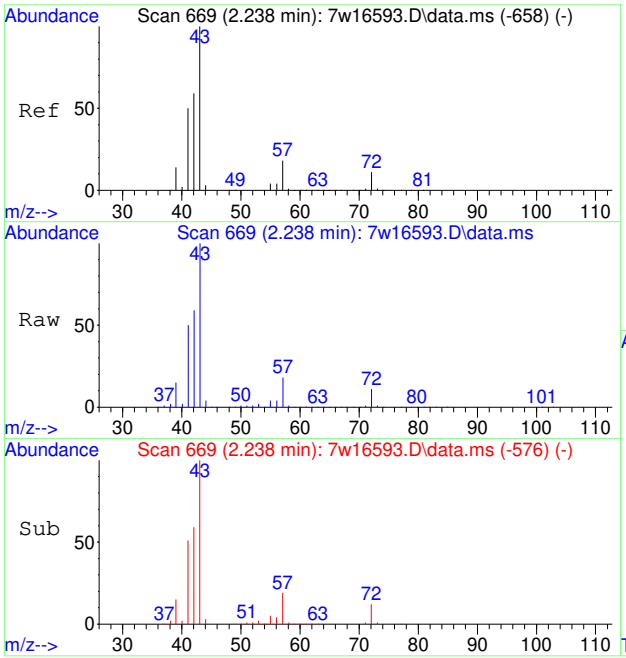


#23
ACETONE
Concen: 48.52 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 315550

Ion	Ratio	Lower	Upper
58	100		
43	272.7	198.6	368.8

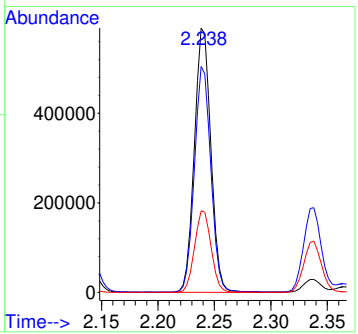


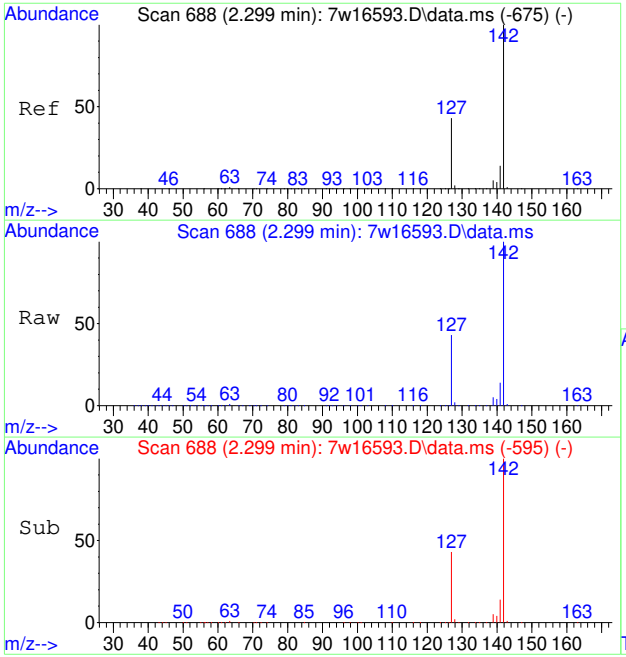


#24
PENTANE
Concen: 46.26 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 42 Resp: 600441

Ion	Ratio	Lower	Upper
42	100		
41	85.1	59.8	111.0
57	31.1	21.1	39.1

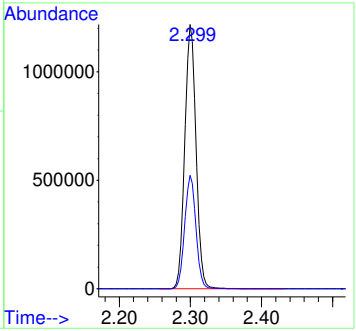


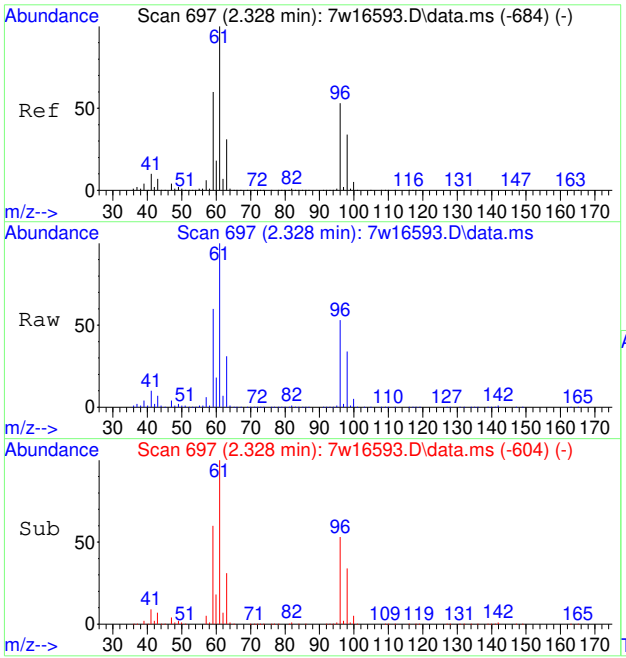


#25
IODOMETHANE
Concen: 52.52 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:142 Resp: 1336999

Ion	Ratio	Lower	Upper
142	100		
127	42.9	30.6	56.8

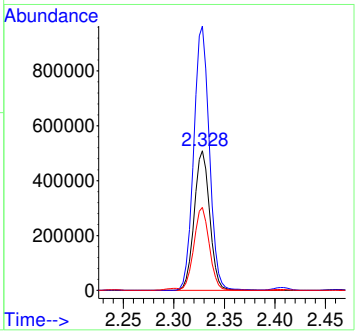


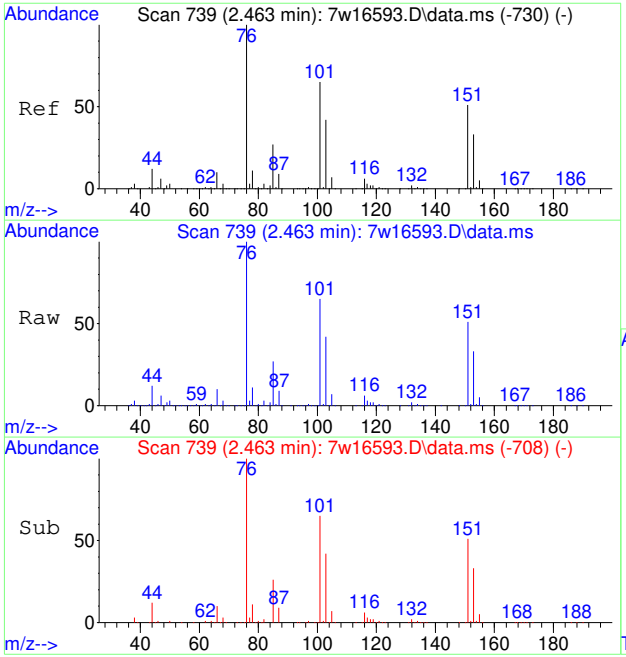


#26
1,1-DICHLOROETHYLENE
Concen: 51.15 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 541882

Ion	Ratio	Lower	Upper
96	100		
61	190.6	138.3	256.8
63	60.5	44.2	82.0

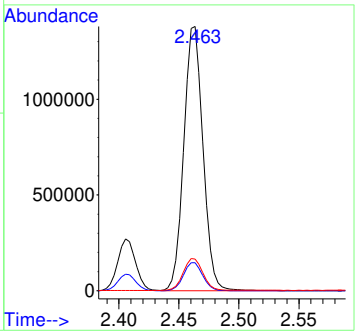


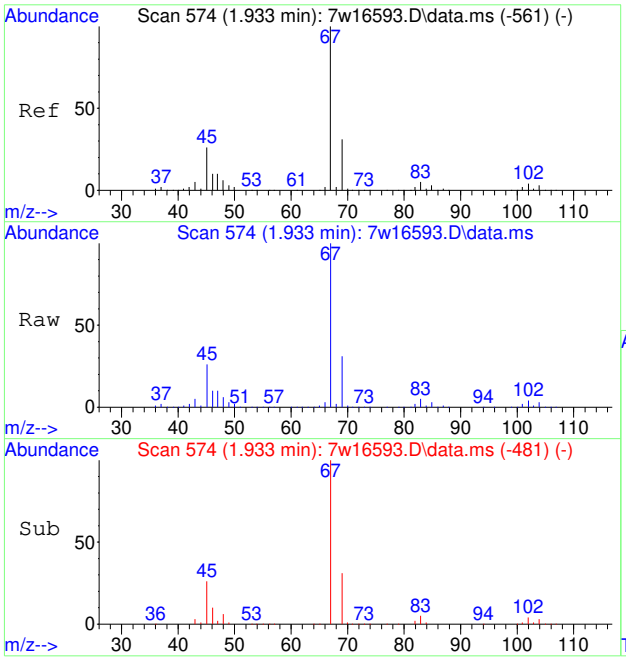


#27
CARBON DISULFIDE
Concen: 51.13 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1536663

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.4	10.2	19.0

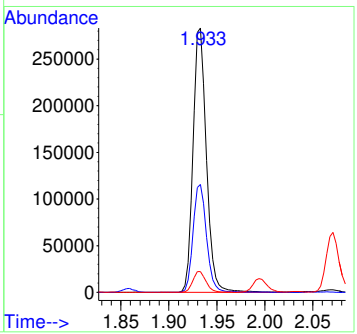


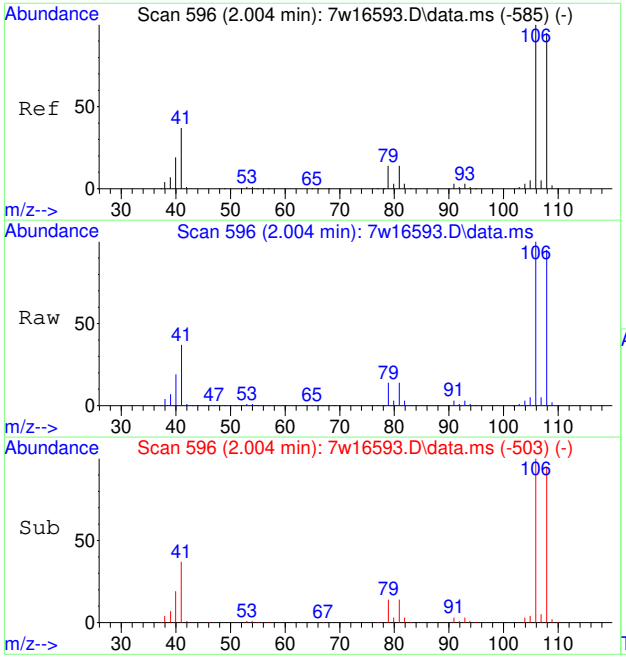


#28
ETHANOL
Concen: 42.83 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 274276

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.7	5.7	10.5

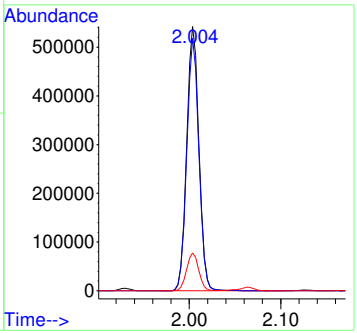


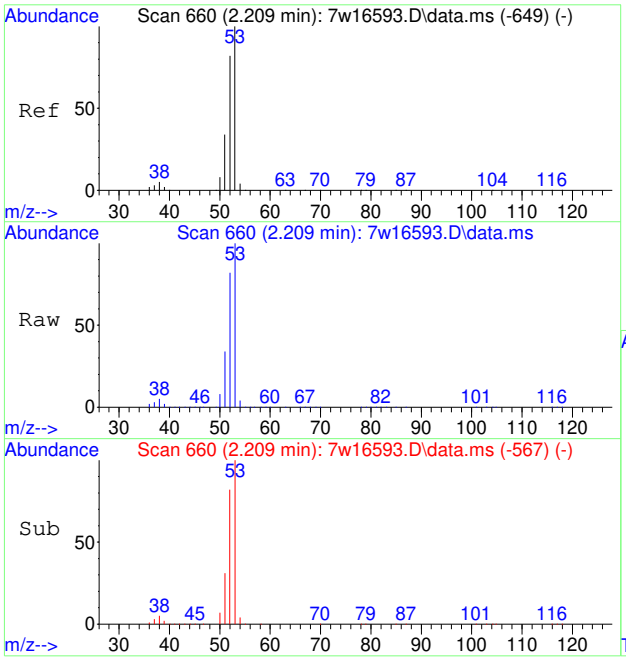


#29
BROMOETHENE
Concen: 50.05 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:106 Resp: 503032

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.2	10.6	19.8

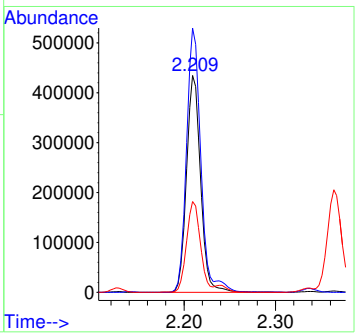


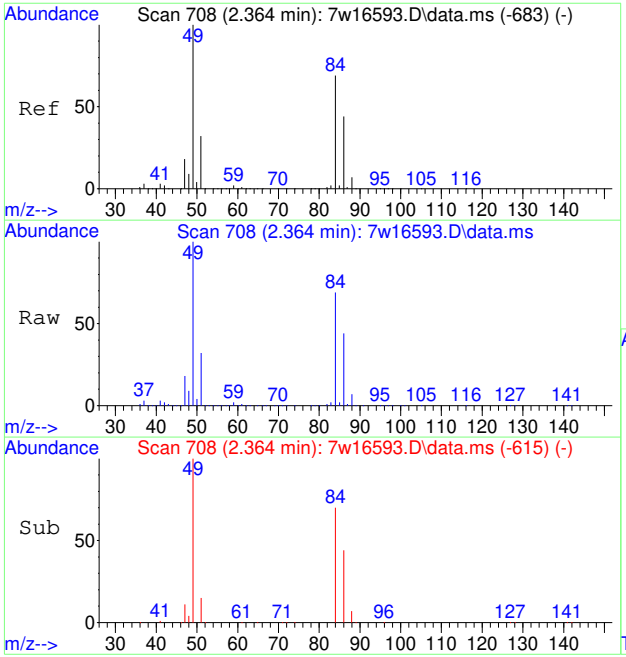


#30
ACRYLONITRILE
Concen: 51.19 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 465157

Ion	Ratio	Lower	Upper
52	100		
53	124.1	88.2	163.8
51	44.3	31.3	58.1

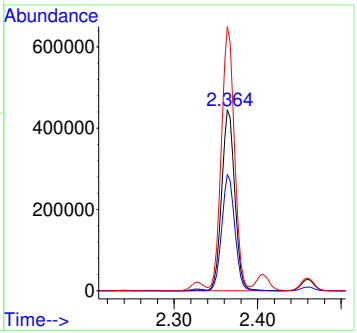


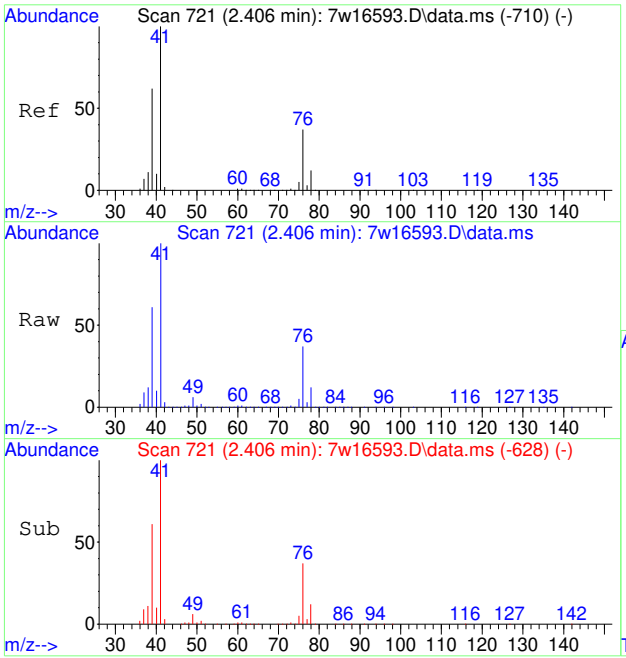


#31
METHYLENE CHLORIDE
Concen: 46.46 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 488512

Ion	Ratio	Lower	Upper
84	100		
86	63.6	44.3	82.3
49	145.0	109.5	203.3

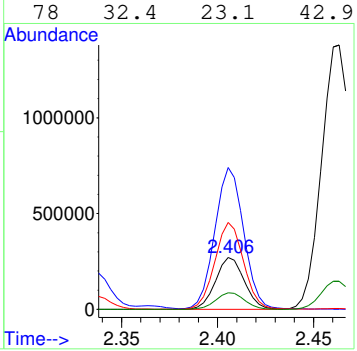


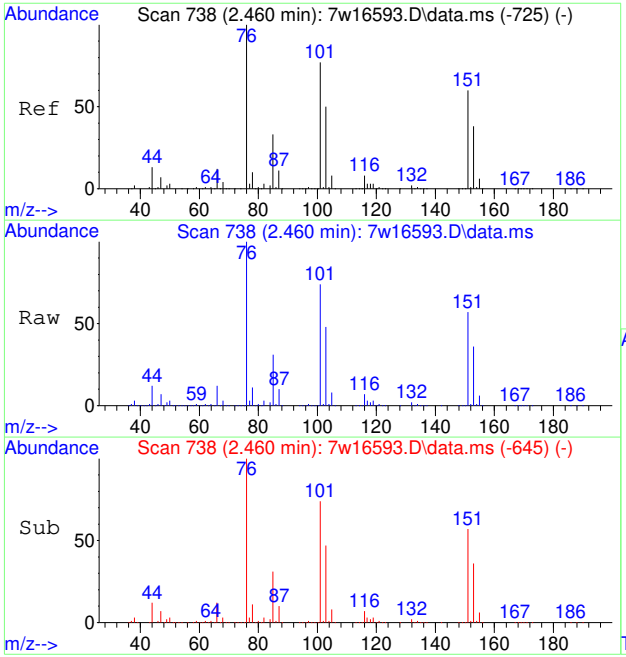


#32
3-CHLOROPROPENE
Concen: 50.05 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 282447

Ion	Ratio	Lower	Upper
76	100		
41	275.4	202.6	376.2
39	167.8	125.8	233.6
78	32.4	23.1	42.9

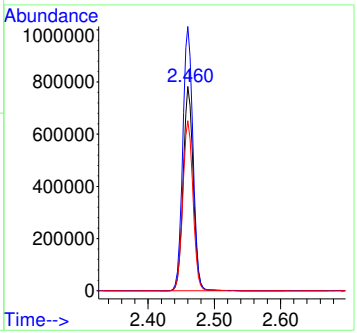


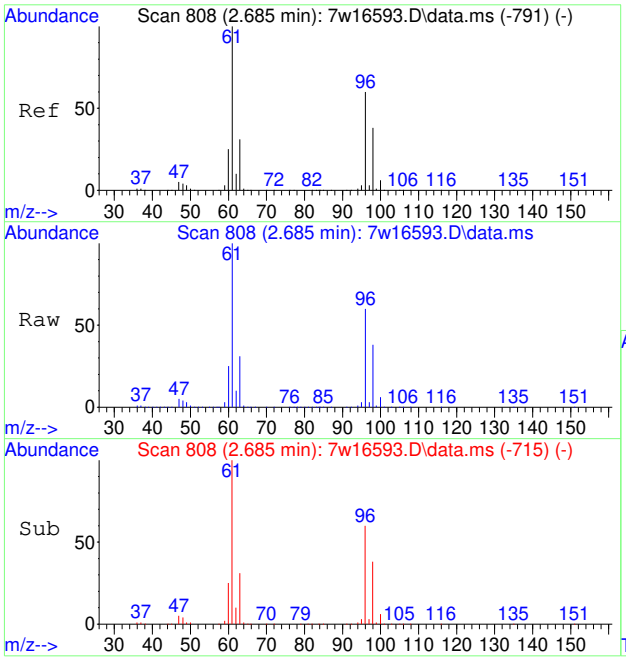


#33
FREON 113
Concen: 52.05 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:151 Resp: 827135

Ion	Ratio	Lower	Upper
151	100		
101	131.1	93.1	172.9
103	84.6	60.1	111.5

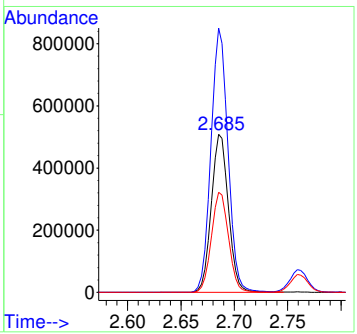


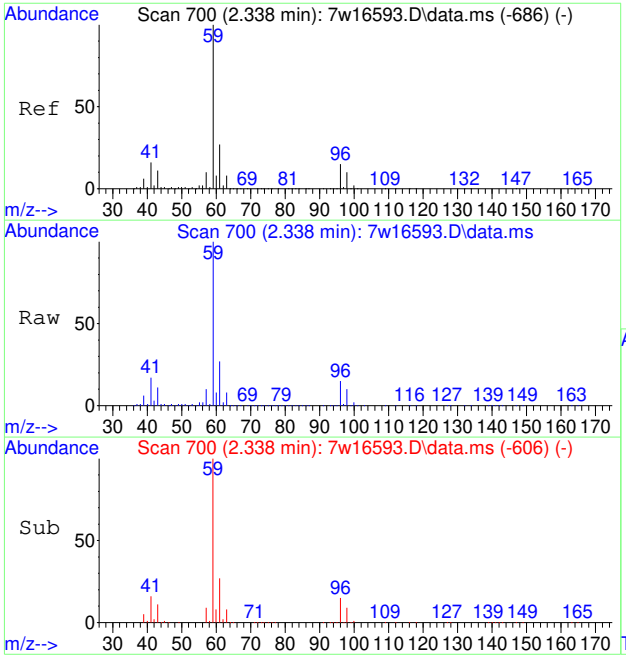


#34
TRANS-1,2-DICHLOROETHENE
Concen: 48.66 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 567495

Ion	Ratio	Lower	Upper
96	100		
61	165.8	119.6	222.0
98	63.4	44.9	83.5

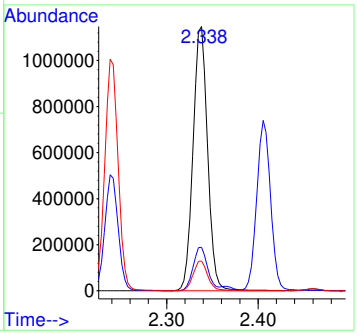


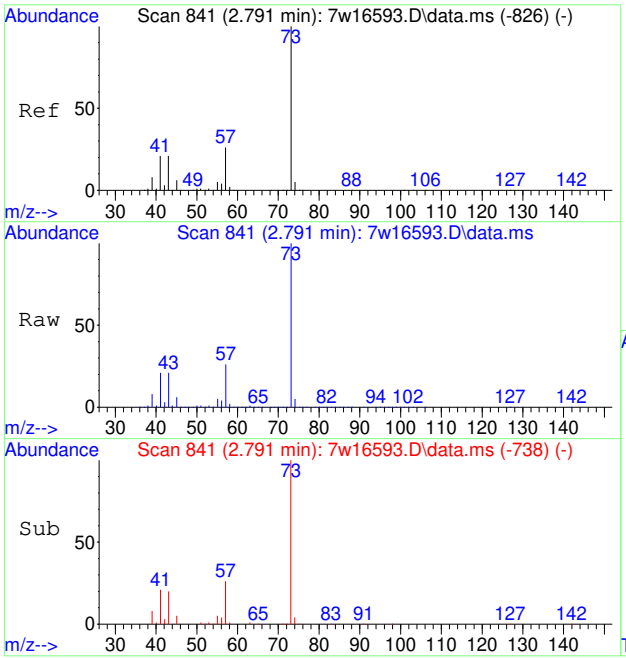


#35
TERTIARY BUTYL ALCOHOL
Concen: 42.60 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 1271463

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.3	8.0	14.8

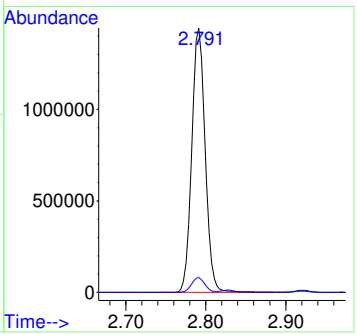


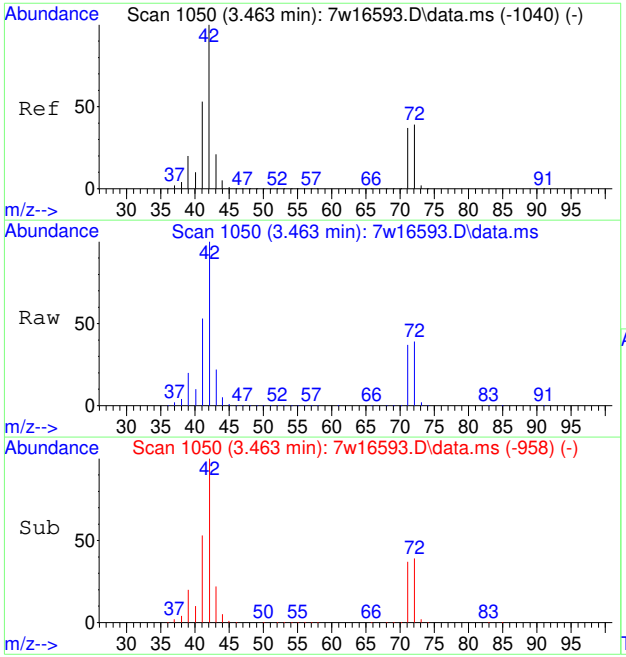


#36
METHYL TERTIARY BUTYL ETHER
Concen: 50.99 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 73 Resp: 1685636

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

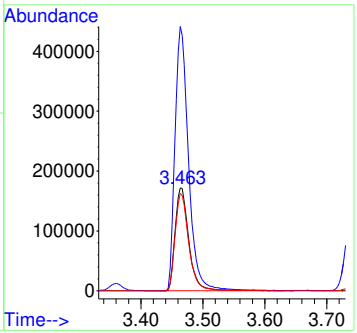


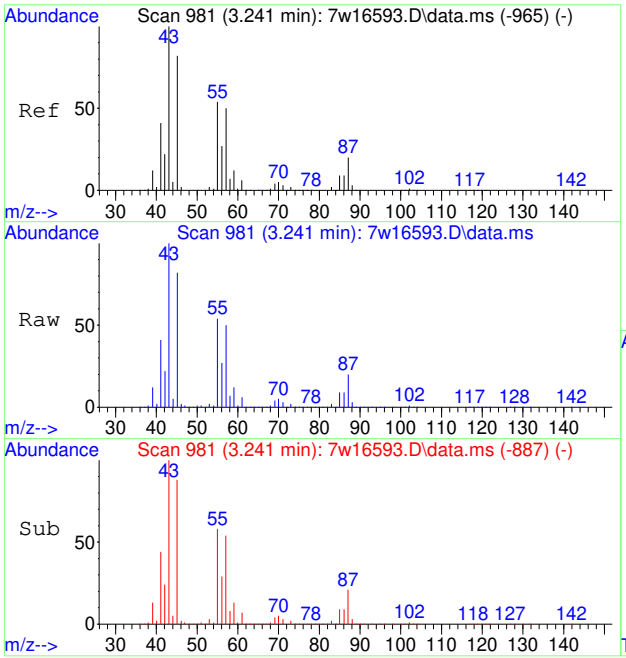


#37
TETRAHYDROFURAN
Concen: 49.92 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 264475

Ion	Ratio	Lower	Upper
72	100		
42	253.2	180.3	334.8
71	93.9	65.8	122.2

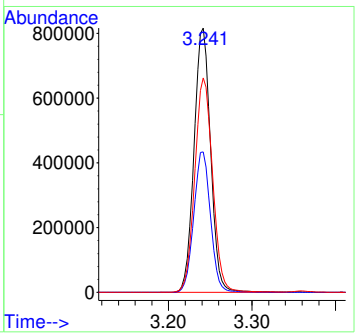


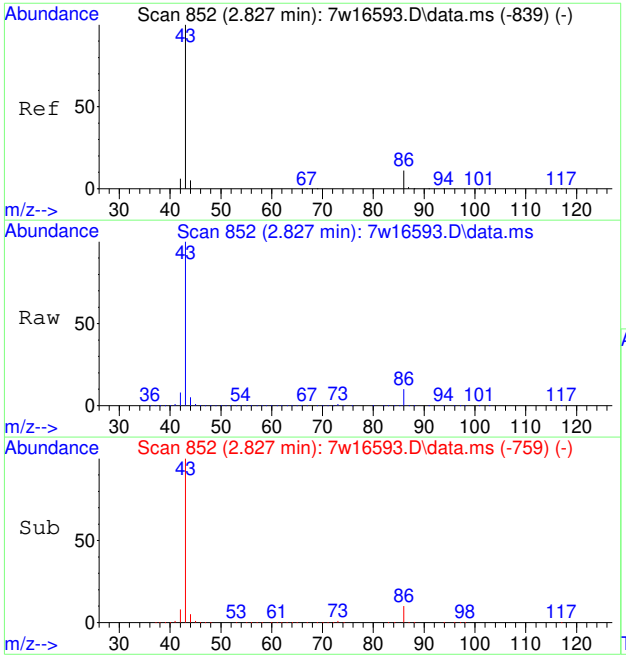


#38
HEXANE
Concen: 50.43 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1126153

Ion	Ratio	Lower	Upper
57	100		
56	53.9	38.0	70.6
41	87.4	65.9	122.5

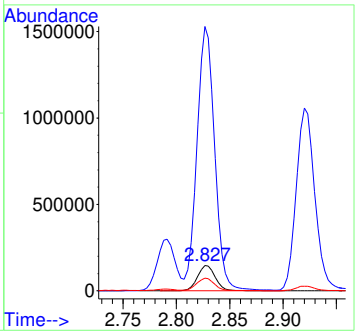


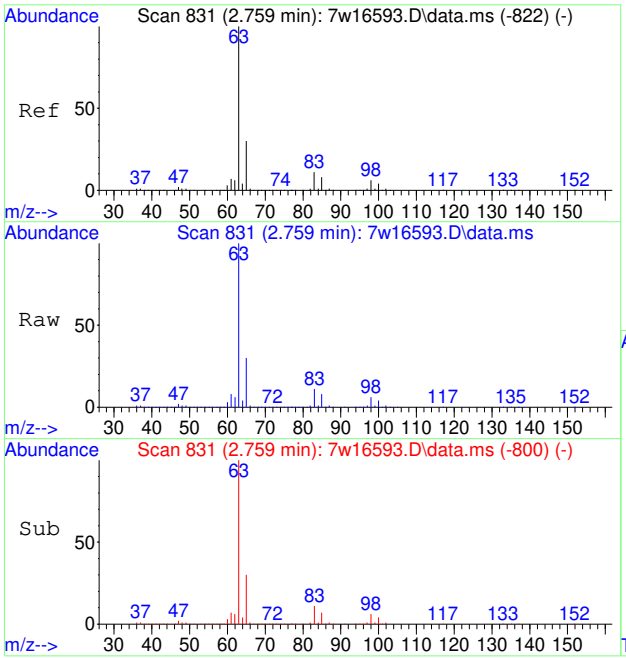


#39
VINYL ACETATE
Concen: 54.22 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 86 Resp: 168950

Ion	Ratio	Lower	Upper
86	100		
43	1048.9	758.7	1408.9
44	50.4	39.5	73.3

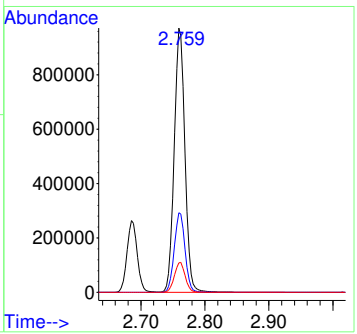


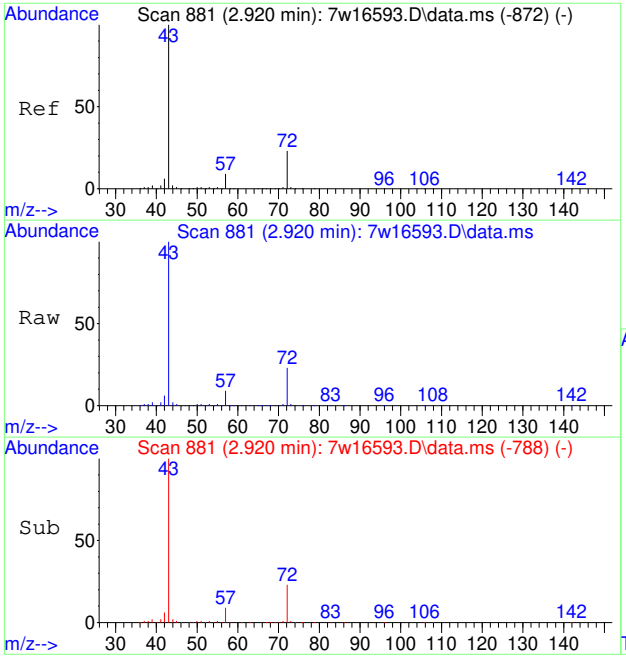


#40
1,1-DICHLOROETHANE
Concen: 50.17 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 1126676

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.4	39.8
83	11.6	8.3	15.5

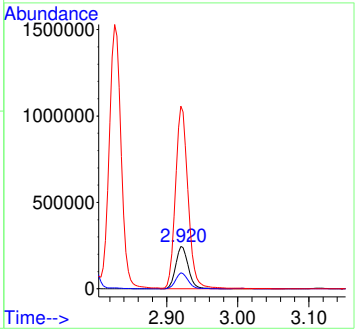


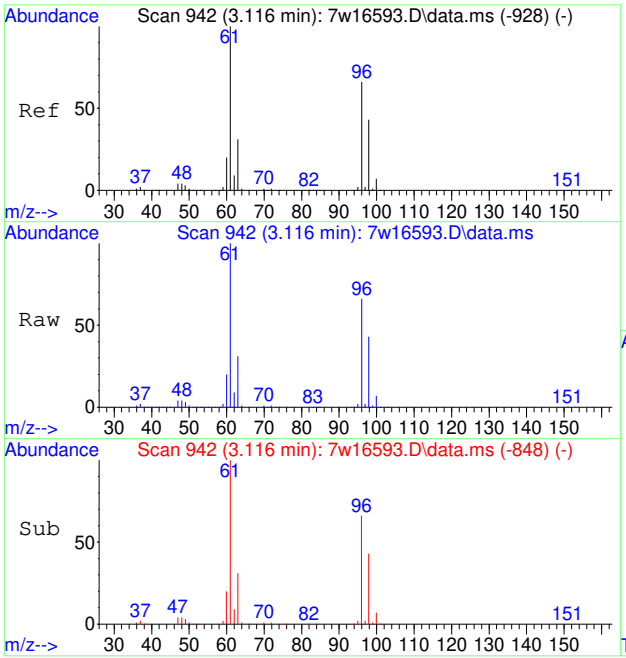


#41
METHYL ETHYL KETONE
Concen: 49.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 301446

Ion	Ratio	Lower	Upper
72	100		
57	37.5	26.9	49.9
43	433.3	309.4	574.6

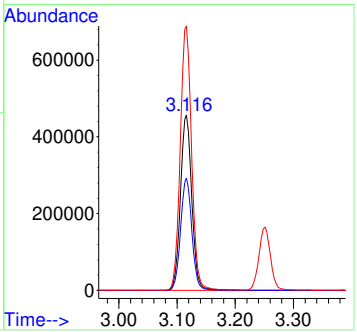


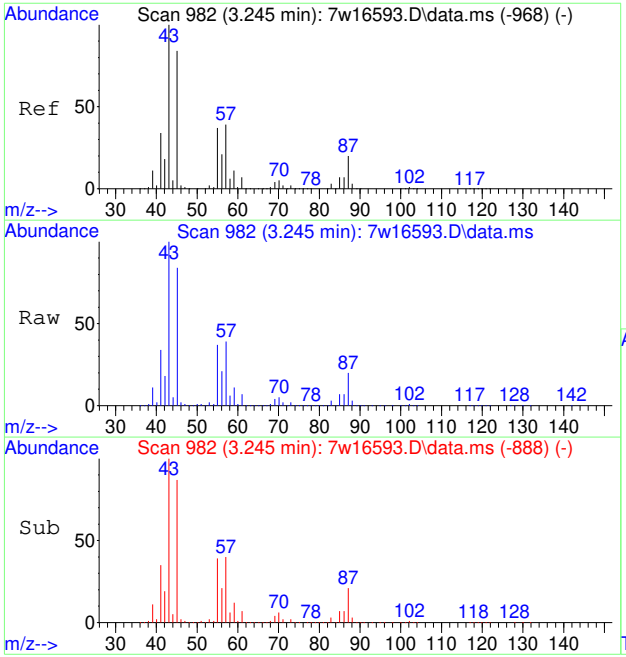


#42
CIS-1,2-DICHLOROETHENE
Concen: 51.36 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 616786

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	151.0	107.3	199.3

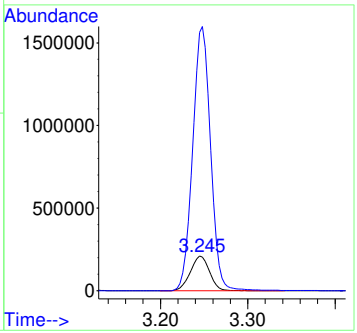


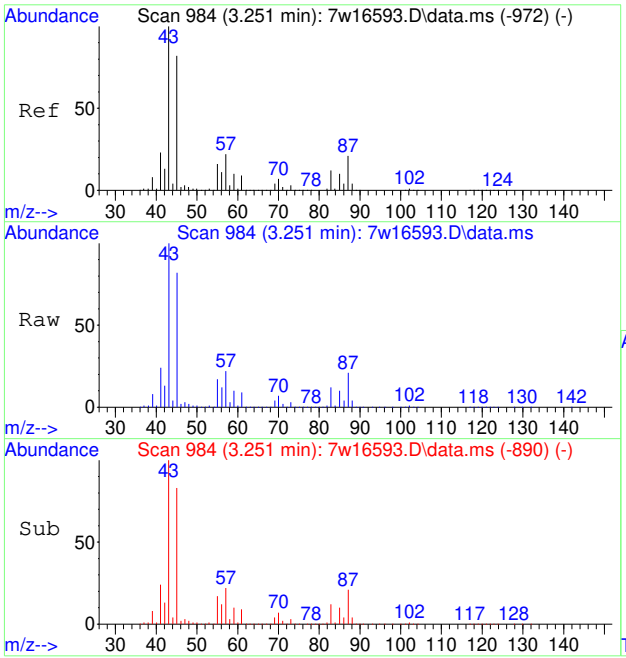


#43
DIISOPROPYL ETHER
Concen: 51.01 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 322160

Ion	Ratio	Lower	Upper
59	100		
45	709.9	517.6	961.2

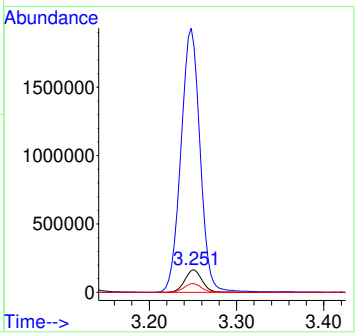


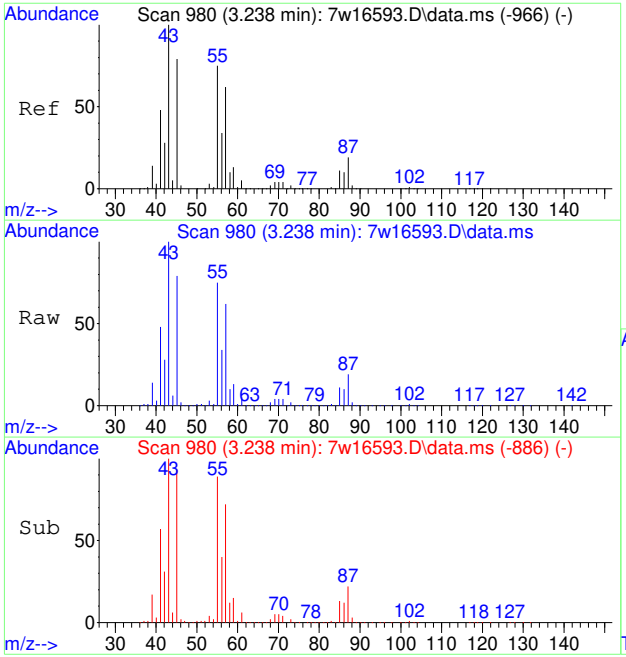


#44
ETHYL ACETATE
Concen: 54.48 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 61 Resp: 229745

Ion	Ratio	Lower	Upper
61	100		
43	1283.3	955.4	1774.4
88	40.0	27.6	51.2

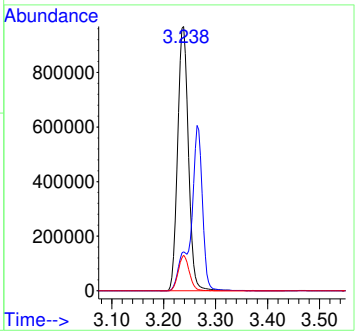


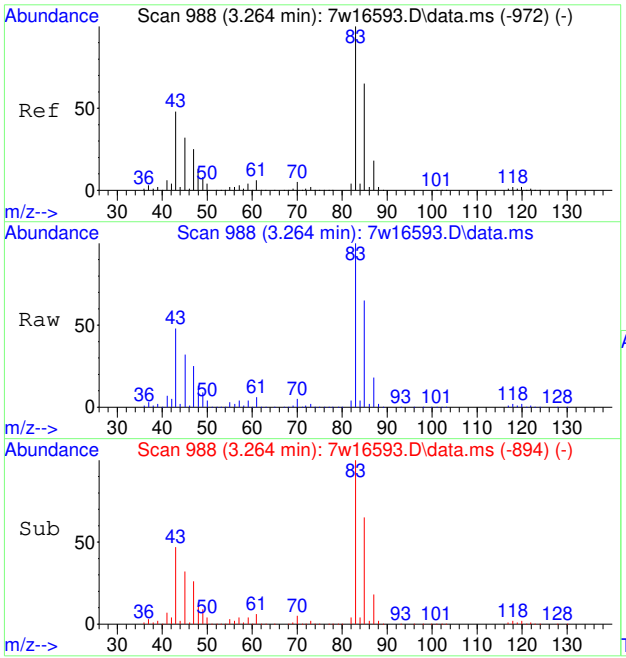


#45
METHYL ACRYLATE
Concen: 51.53 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1386411

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

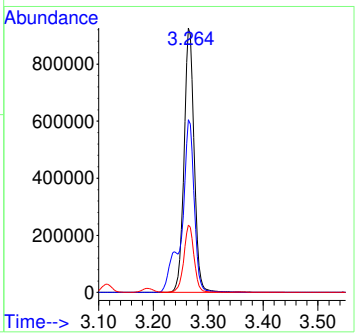


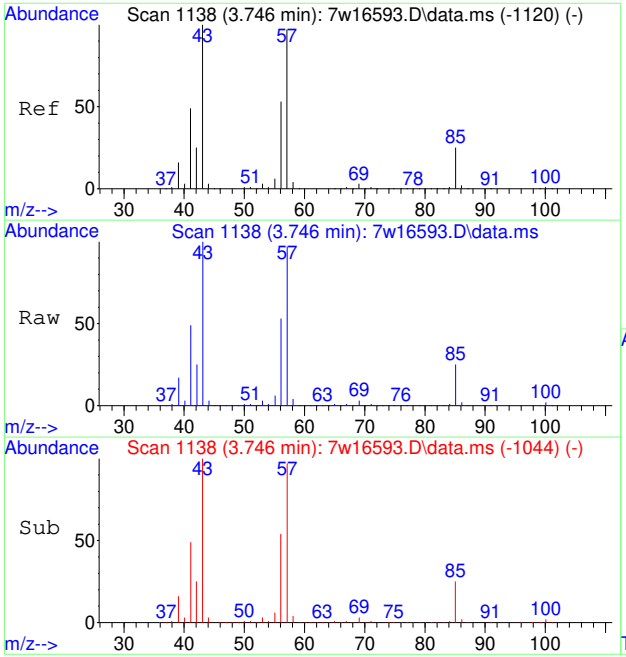


#46
CHLOROFORM
Concen: 50.69 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1180563

Ion	Ratio	Lower	Upper
83	100		
85	81.2	56.0	104.0
47	25.9	19.0	35.4

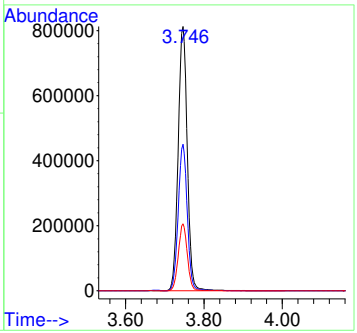


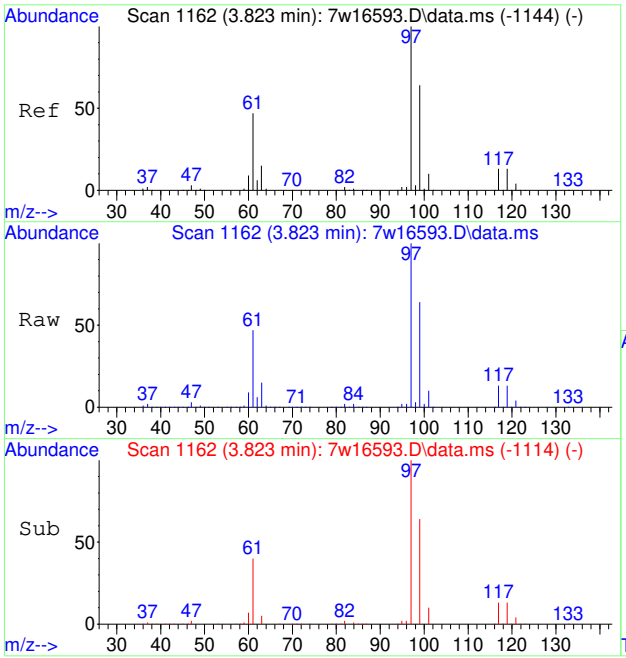


#47
2,4-DIMETHYLPENTANE
Concen: 52.75 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1310498

Ion	Ratio	Lower	Upper
57	100		
56	55.2	38.4	71.2
85	25.0	17.5	32.5

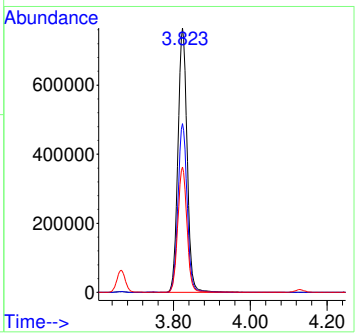


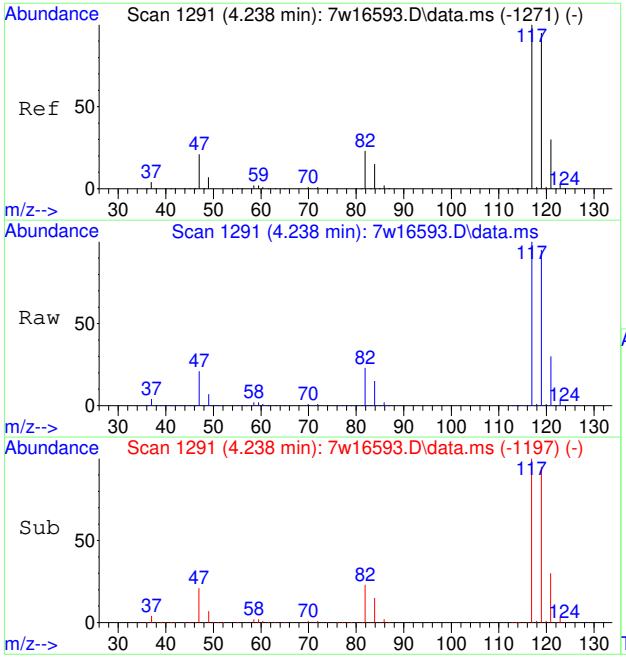


#48
1,1,1-TRICHLOROETHANE
Concen: 51.99 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 97 Resp: 1267195

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	47.8	34.7	64.5

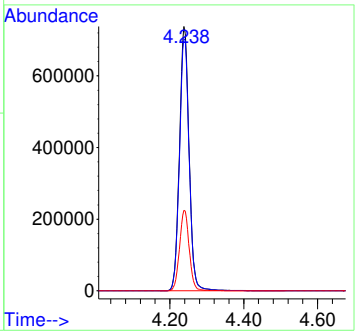


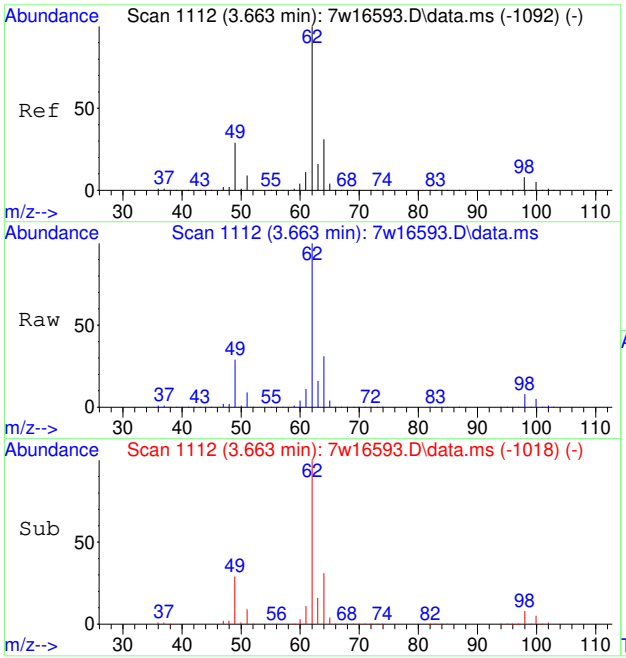


#49
CARBON TETRACHLORIDE
Concen: 53.55 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1338340

Ion	Ratio	Lower	Upper
117	100		
119	96.5	67.5	125.3
121	30.7	21.3	39.5

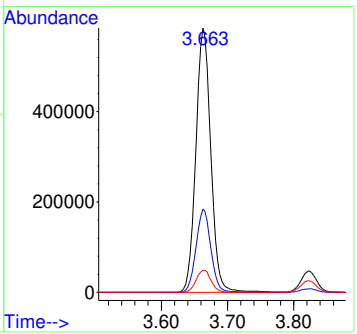


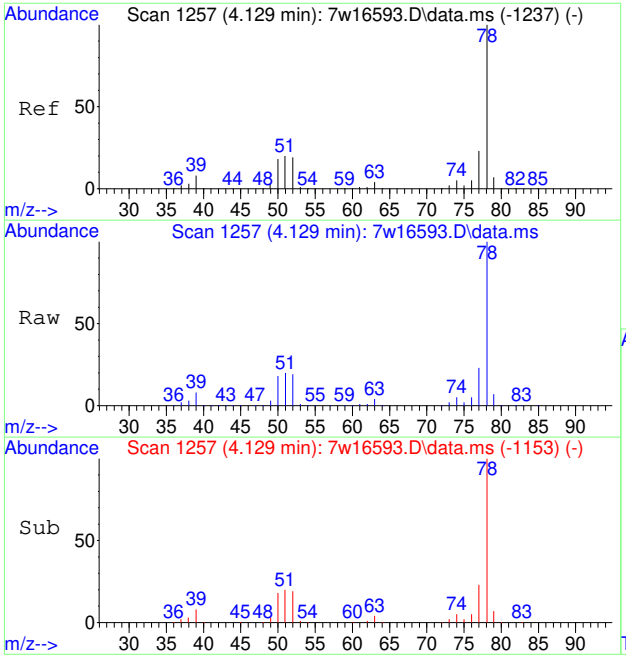


#50
1,2-DICHLOROETHANE
Concen: 51.11 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 918746

Ion	Ratio	Lower	Upper
62	100		
64	31.3	21.8	40.6
98	8.5	5.8	10.8

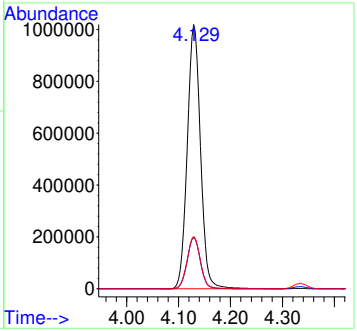


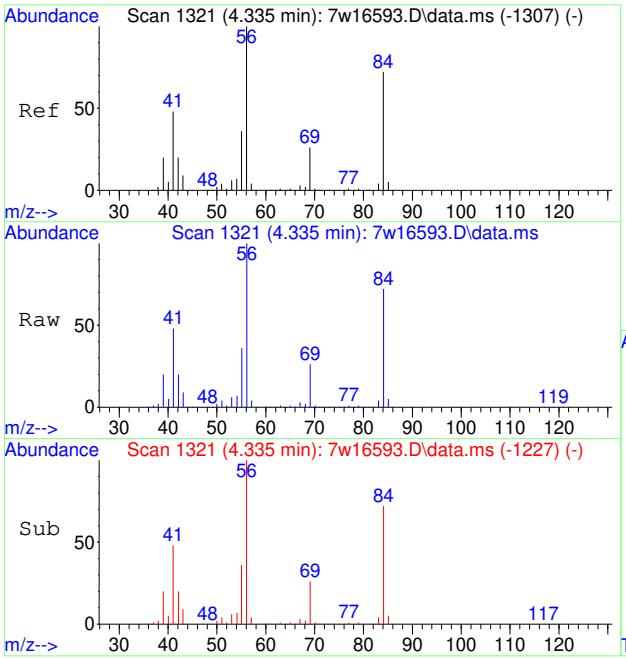


#51
BENZENE
Concen: 50.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 78 Resp: 1795488

Ion	Ratio	Lower	Upper
78	100		
52	19.6	0.0	49.9
51	19.9	0.0	50.6

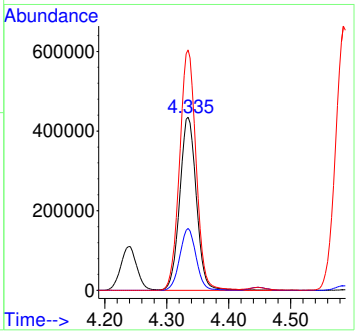


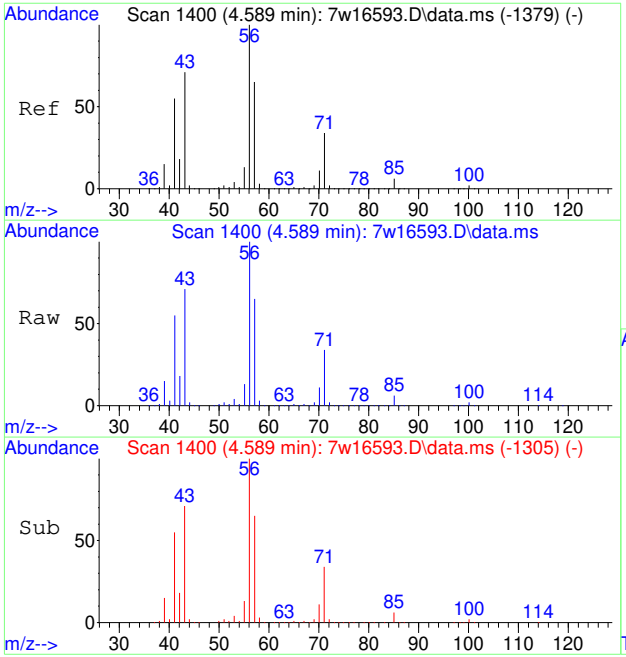


#53
CYCLOHEXANE
Concen: 52.10 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 810673

Ion	Ratio	Lower	Upper
84	100		
69	35.2	24.6	45.6
56	138.1	96.4	179.0

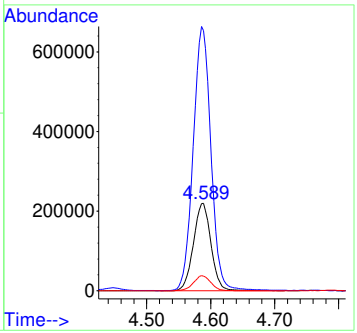


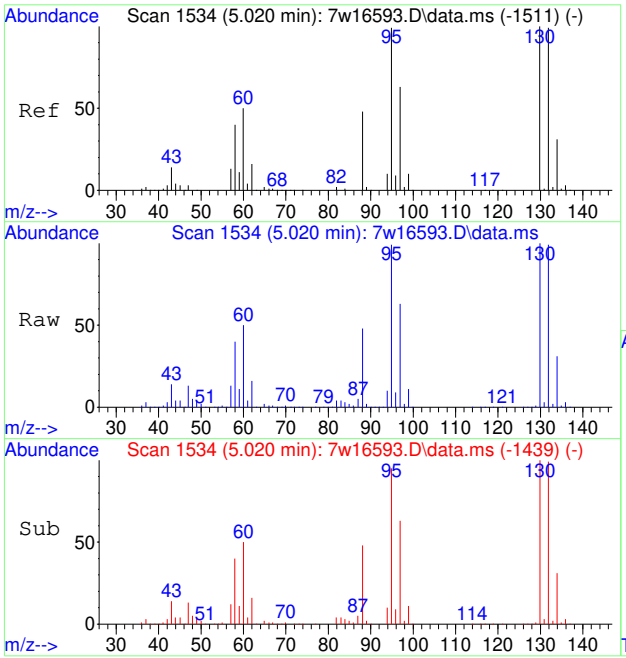


#54
2,3-DIMETHYLPENTANE
Concen: 54.59 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 71 Resp: 421378

Ion	Ratio	Lower	Upper
71	100		
56	303.1	213.2	396.0
85	17.4	12.2	22.6

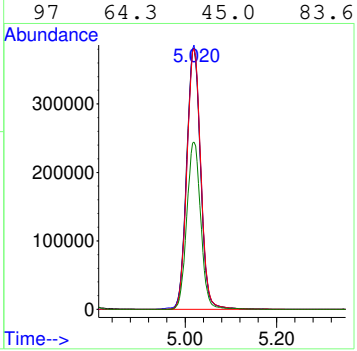


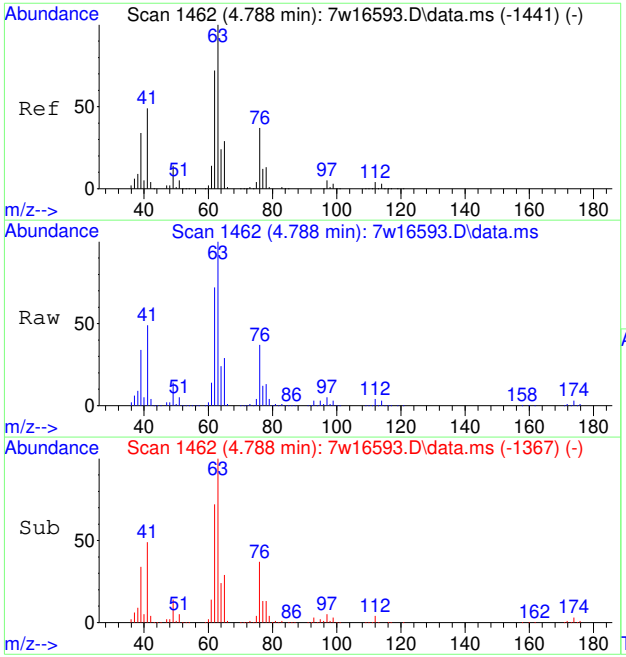


#55
TRICHLOROETHENE
Concen: 48.49 PPBV
RT: 5.020 min Scan# 1534
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 95 Resp: 808299

Ion	Ratio	Lower	Upper
95	100		
130	100.6	69.4	129.0
132	99.7	69.4	128.8
97	64.3	45.0	83.6

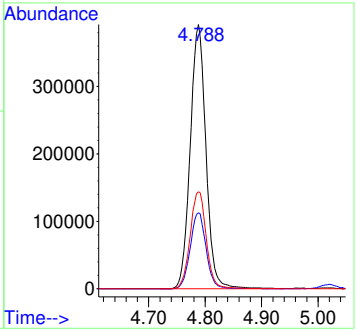


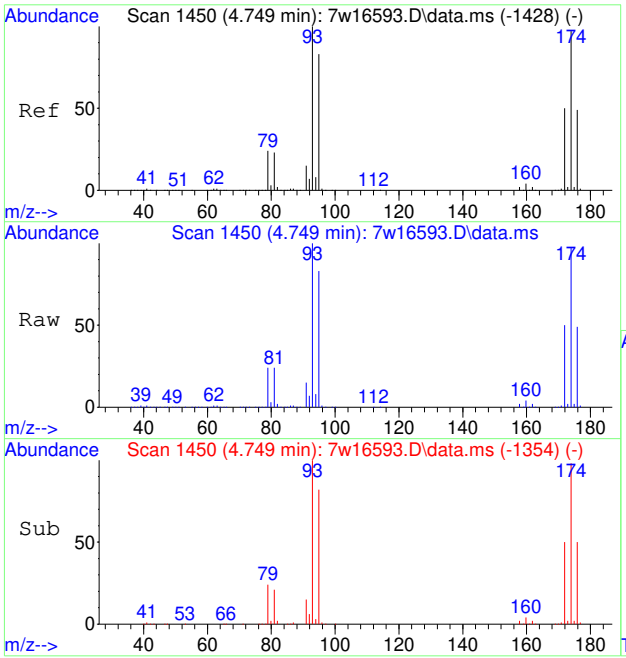


#56
1,2-DICHLOROPROPANE
Concen: 51.61 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 756985

Ion	Ratio	Lower	Upper
63	100		
65	29.2	20.5	38.1
76	37.6	27.1	50.3

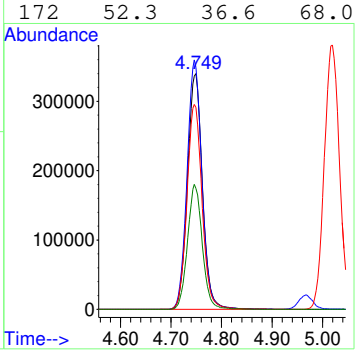


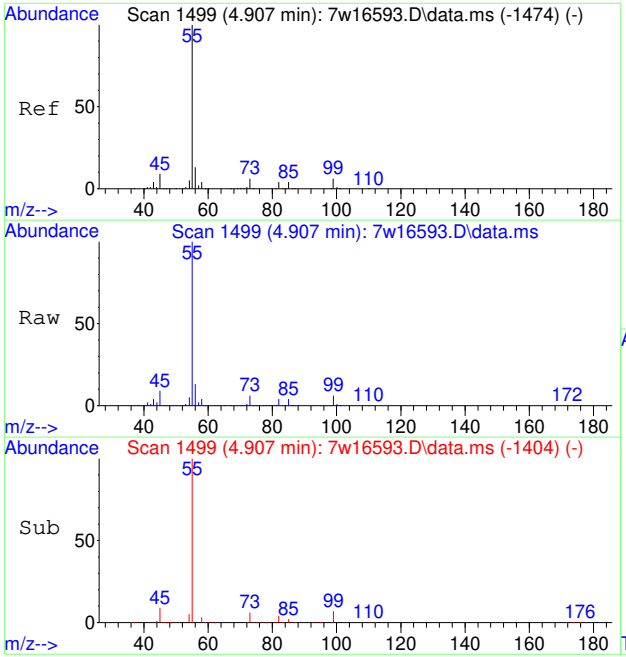


#57
DIBROMOMETHANE
Concen: 49.34 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:174 Resp: 703285

Ion	Ratio	Lower	Upper
174	100		
93	105.1	75.3	139.9
95	87.9	62.4	115.8
172	52.3	36.6	68.0

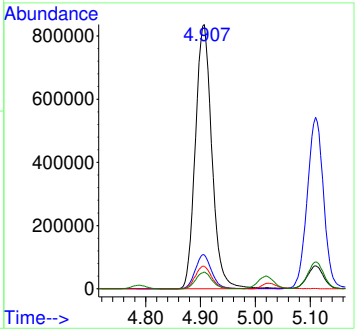


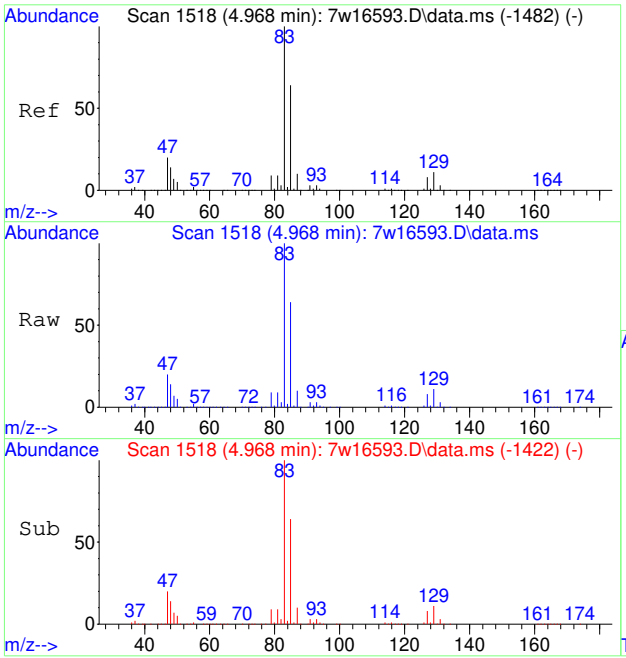


#58
ETHYL ACRYLATE
Concen: 53.53 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1751040

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.6	6.1	11.3
99	6.2	4.3	8.1

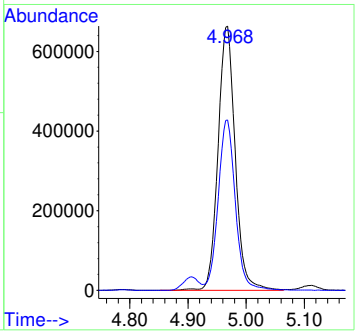


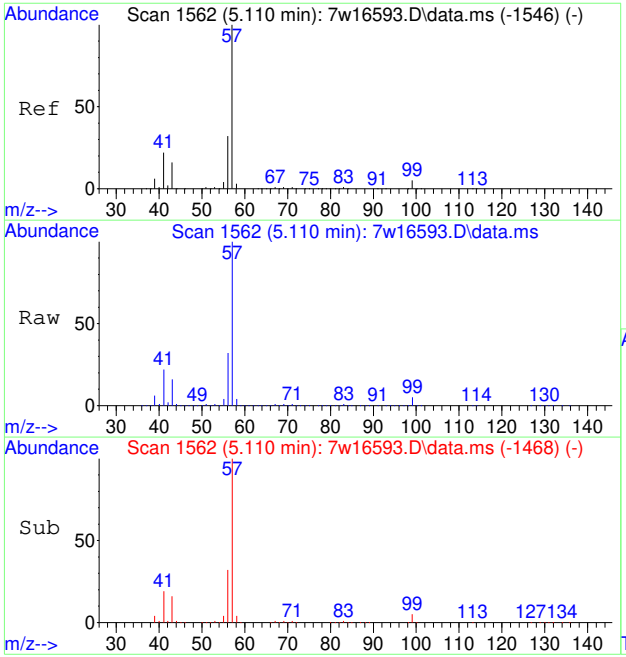


#59
BROMODICHLOROMETHANE
Concen: 51.19 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1363903

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.6	84.8

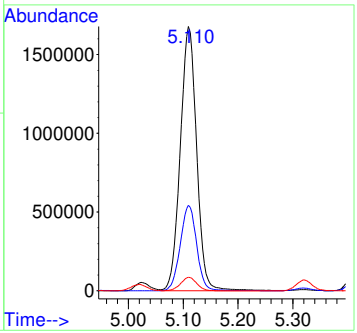


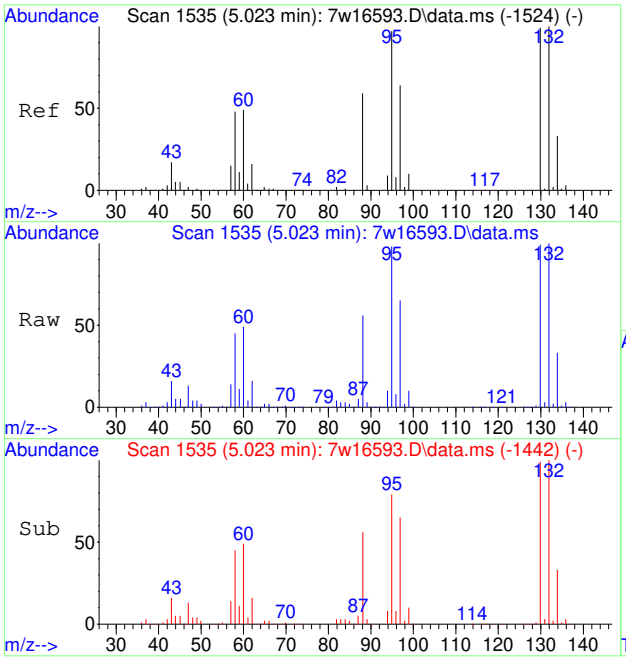


#60
2,2,4-TRIMETHYLPENTANE
Concen: 47.72 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 3474233

Ion	Ratio	Lower	Upper
57	100		
56	32.4	22.6	42.0
99	5.1	3.6	6.8

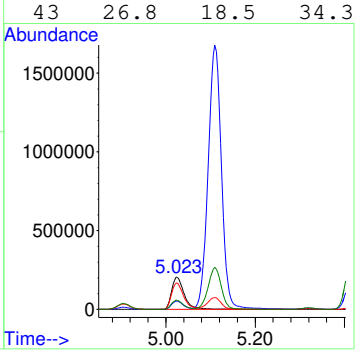


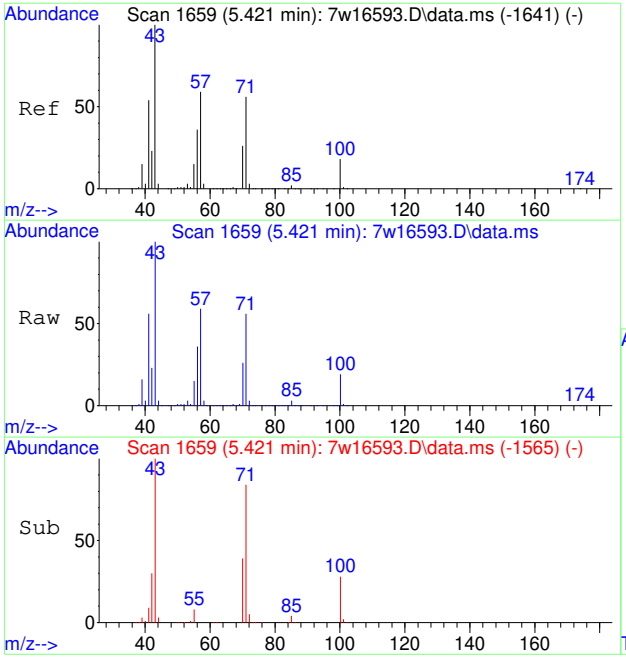


#61
1,4-DIOXANE
Concen: 51.97 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 88 Resp: 402995

Ion	Ratio	Lower	Upper
88	100		
57	24.0	16.7	30.9
58	77.9	52.4	97.4
43	26.8	18.5	34.3

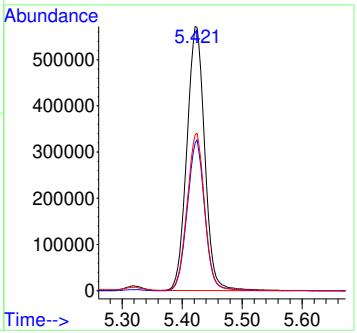


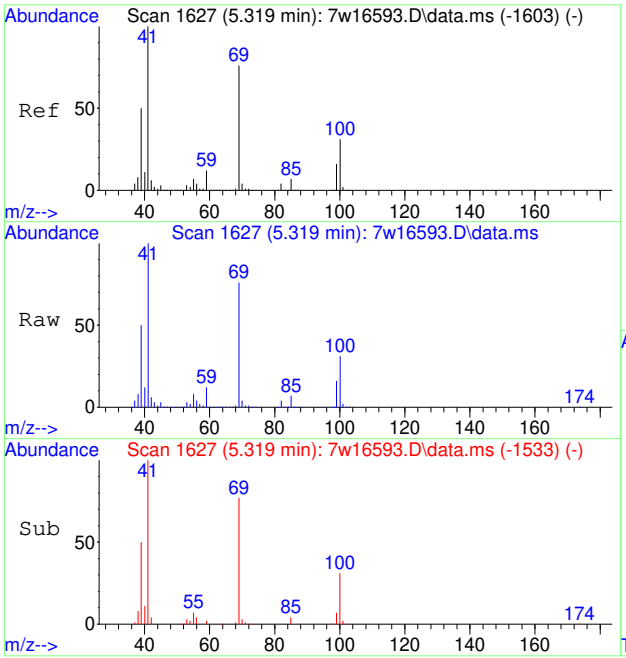


#62
HEPTANE
Concen: 49.34 PPBV
RT: 5.421 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1183014

Ion	Ratio	Lower	Upper
43	100		
71	56.1	38.9	72.2
57	59.0	40.5	75.3

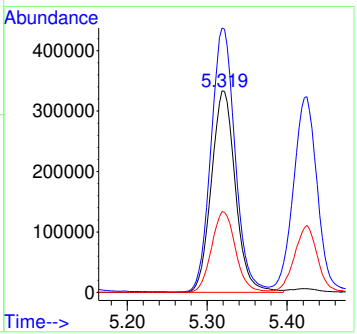


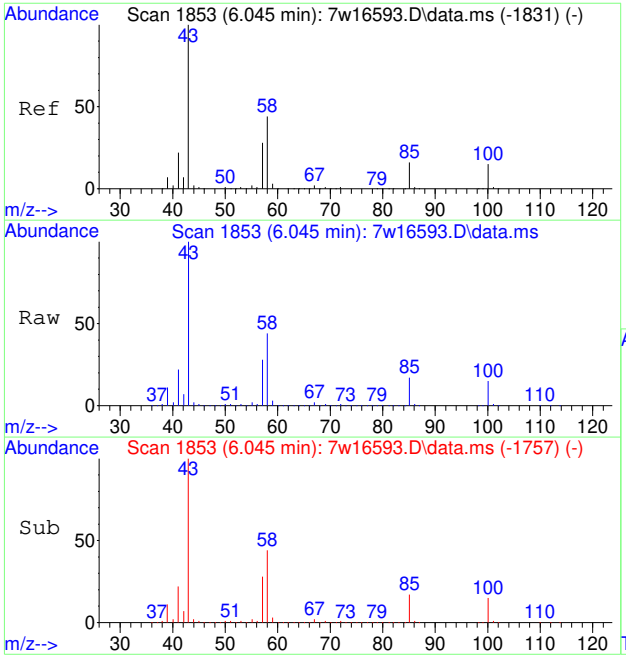


#63
METHYL METHACRYLATE
Concen: 52.38 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 696280

Ion	Ratio	Lower	Upper
69	100		
41	130.9	95.5	177.4
100	40.0	28.1	52.1

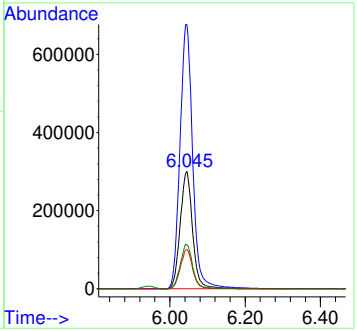


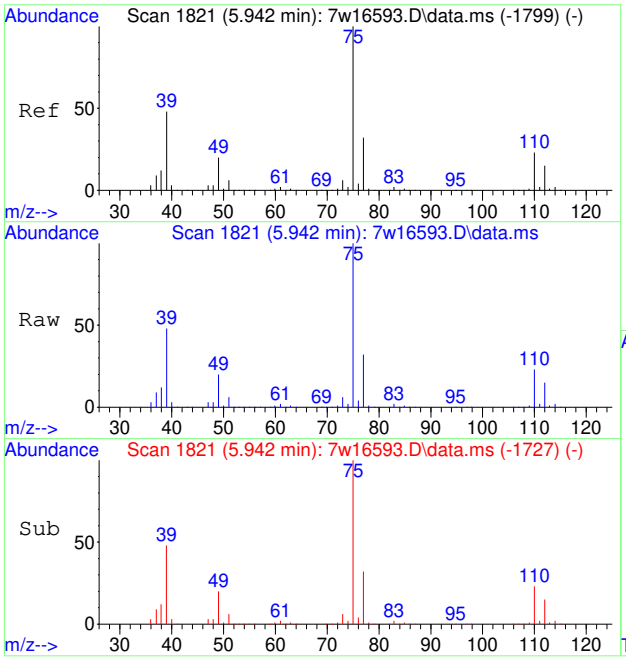


#64
METHYL ISOBUTYL KETONE
Concen: 48.13 PPBV
RT: 6.045 min Scan# 1853
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 692709

Ion	Ratio	Lower	Upper
58	100		
43	229.1	163.8	304.2
100	33.4	23.2	43.2
85	38.0	26.5	49.3

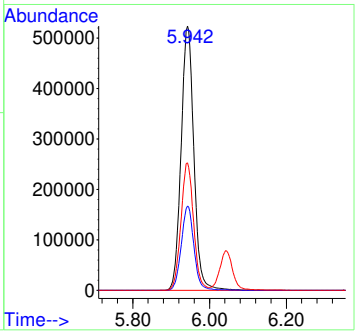


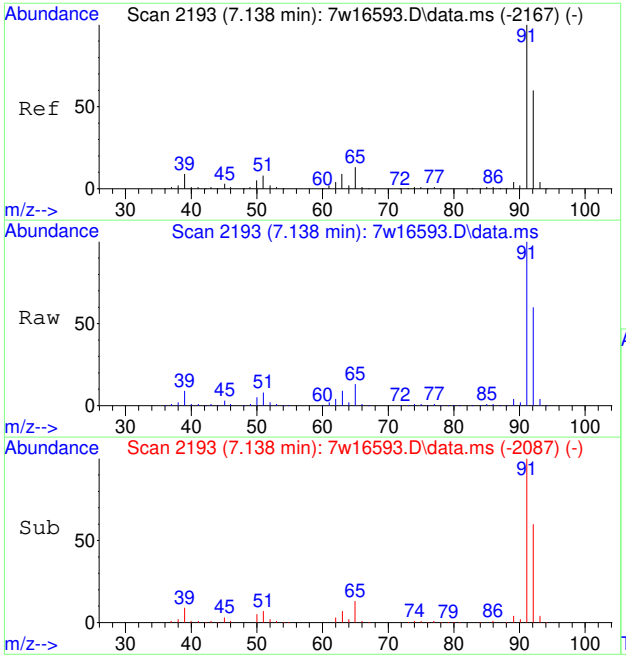


#65
CIS-1,3-DICHLOROPROPENE
Concen: 54.68 PPBV
RT: 5.942 min Scan# 1821
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1209649

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.0	41.0
39	47.8	35.7	66.3

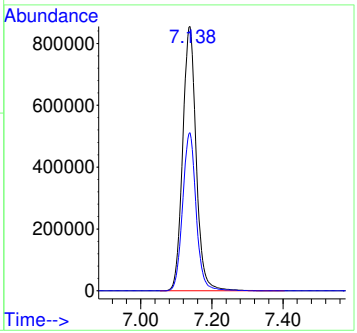


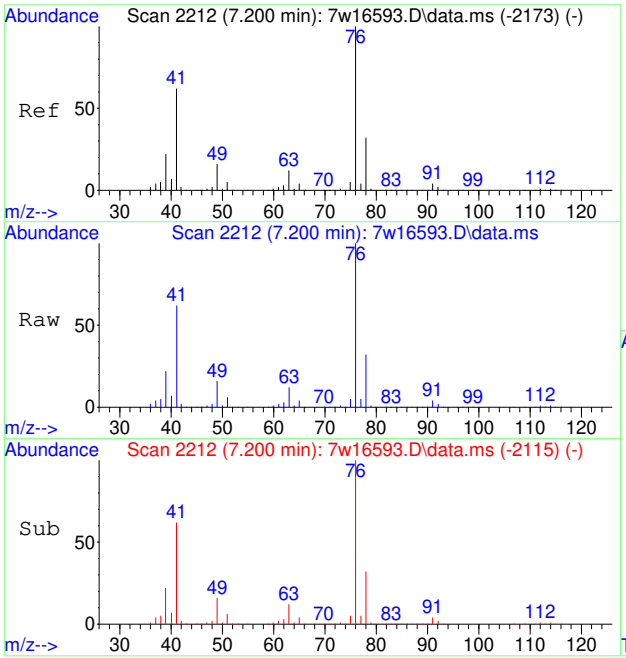


#66
TOLUENE
Concen: 53.54 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2257380

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

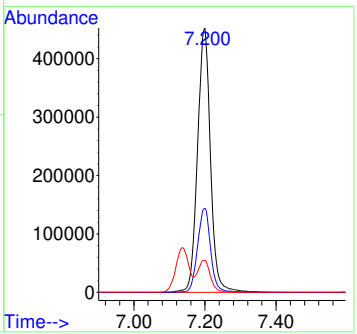


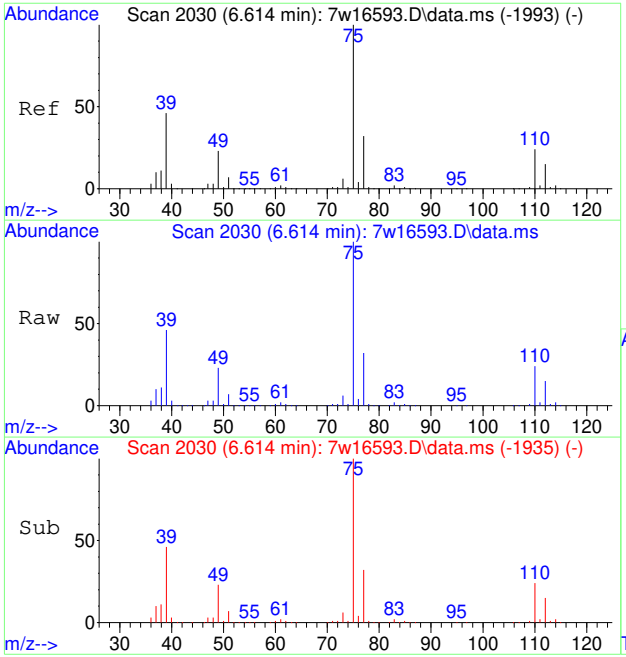


#67
1,3-DICHLOROPROPANE
Concen: 54.57 PPBV
RT: 7.200 min Scan# 2212
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1150031

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	11.7	8.3	15.5

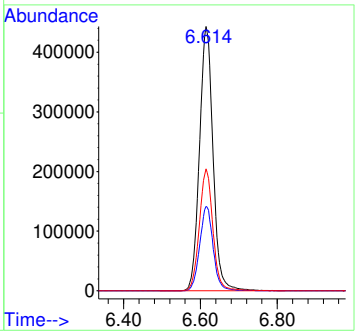


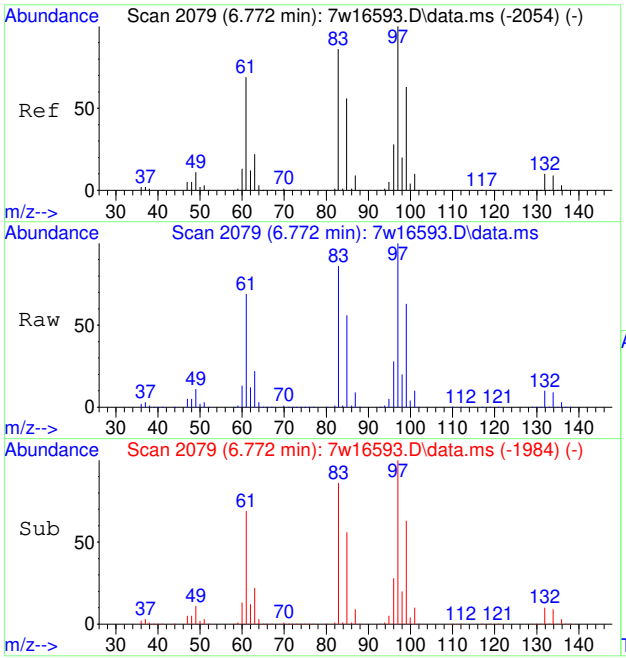


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 55.09 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1086853

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.3	41.5
39	46.3	33.9	63.0

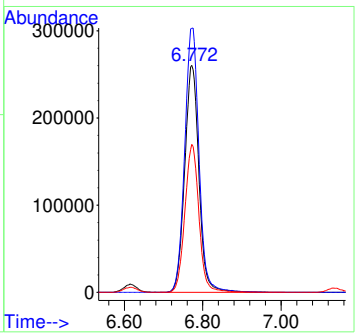


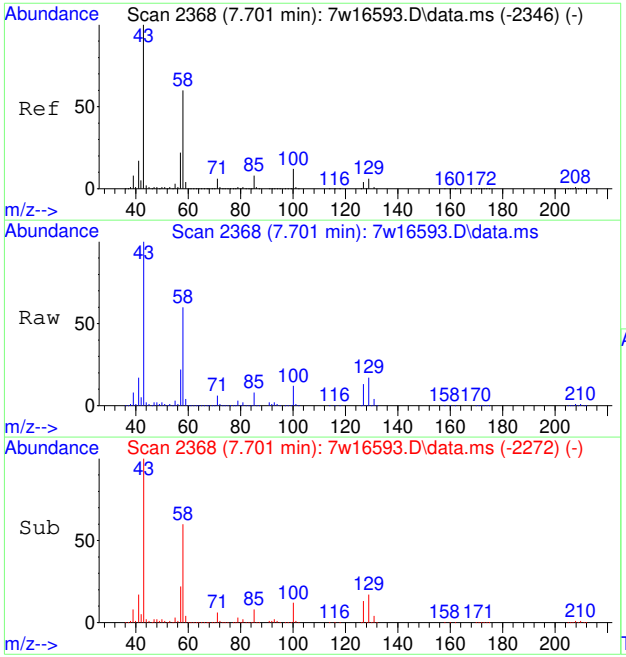


#69
1,1,2-TRICHLOROETHANE
Concen: 55.07 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 657452

Ion	Ratio	Lower	Upper
83	100		
97	117.1	81.2	150.8
85	64.6	45.1	83.7

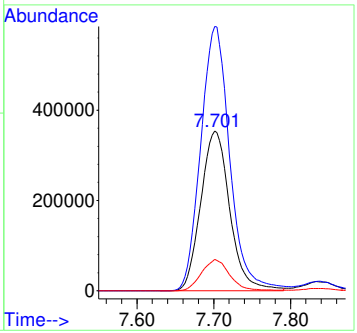


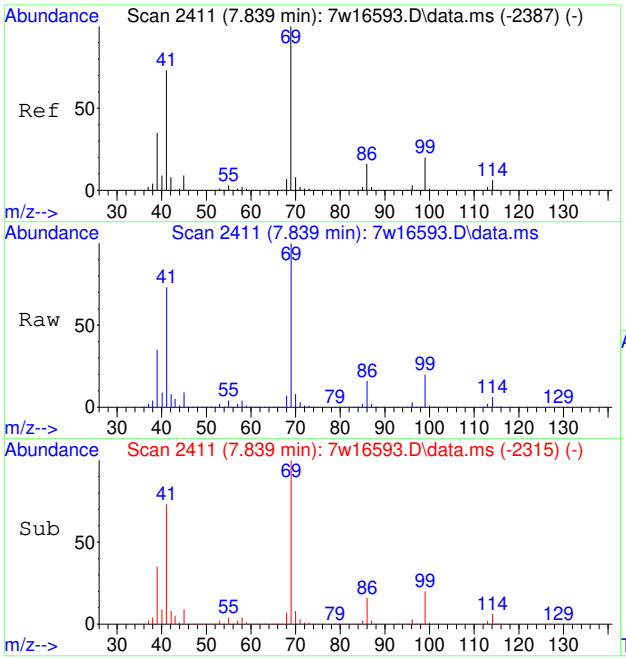


#70
2-HEXANONE
Concen: 45.78 PPBV
RT: 7.701 min Scan# 2368
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 931287

Ion	Ratio	Lower	Upper
58	100		
43	165.4	118.6	220.2
100	19.1	13.0	24.2

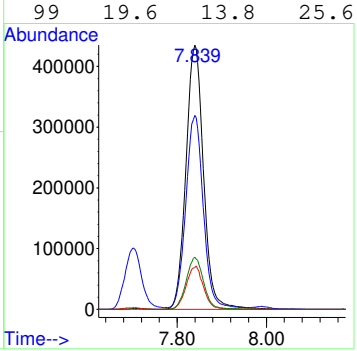


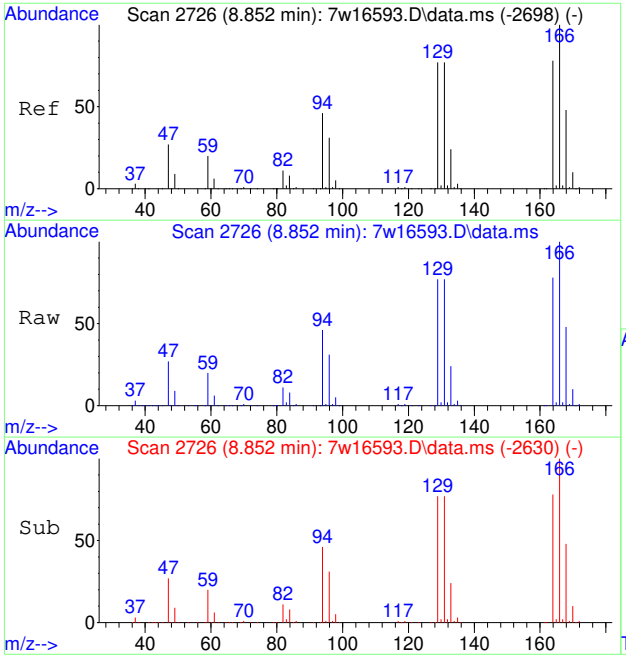


#71
ETHYL METHACRYLATE
Concen: 54.01 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 1191952

Ion	Ratio	Lower	Upper
69	100		
41	73.7	53.6	99.6
86	16.2	11.3	20.9
99	19.6	13.8	25.6

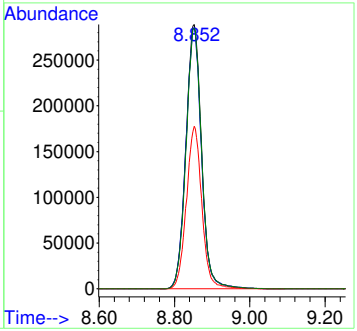


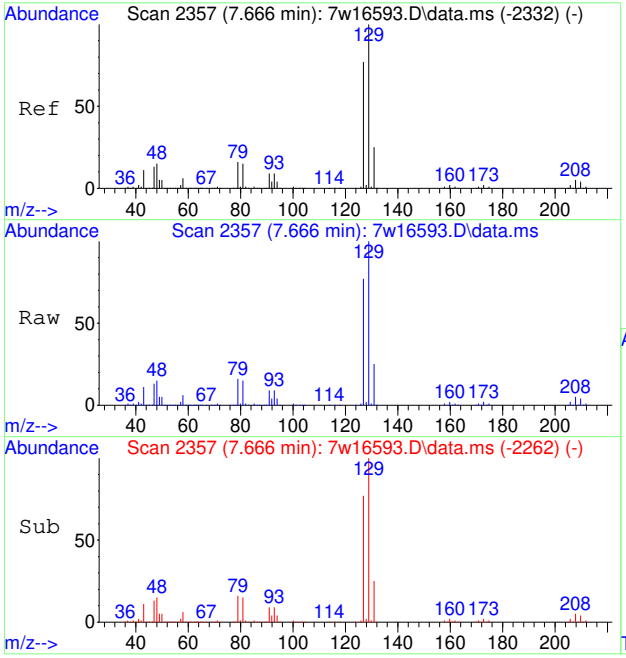


#72
TETRACHLOROETHENE
Concen: 54.58 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:164 Resp: 838148

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.1	69.4	129.0

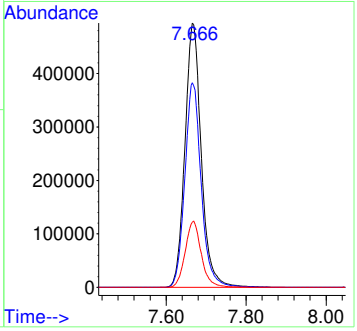


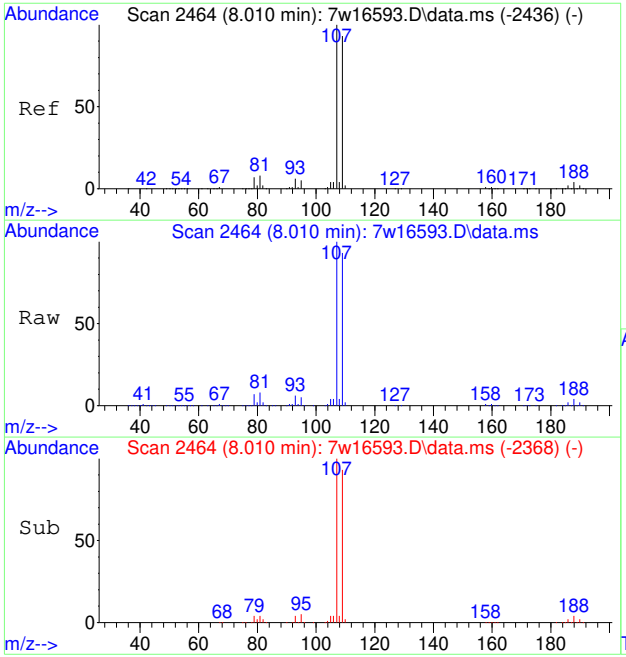


#73
DIBROMOCHLOROMETHANE
Concen: 58.86 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:129 Resp: 1403452

Ion	Ratio	Lower	Upper
129	100		
127	77.8	54.7	101.7
131	24.8	17.4	32.4

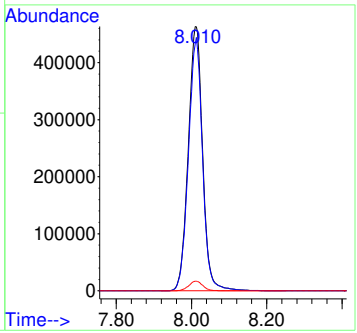


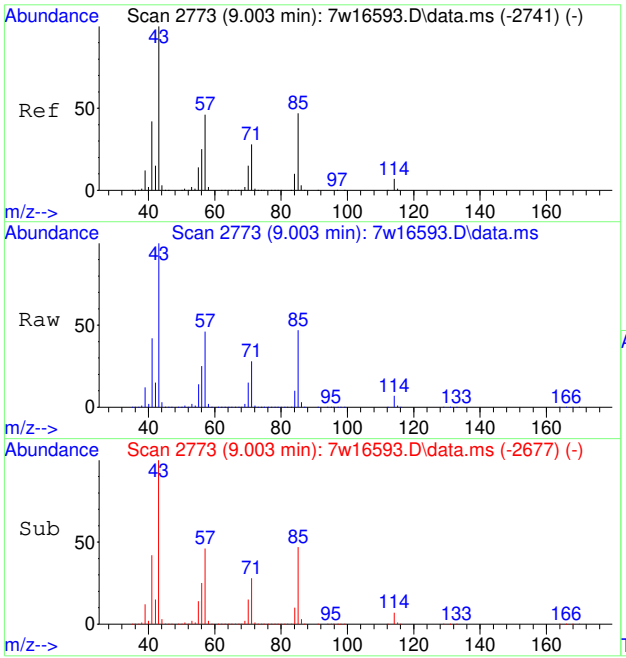


#74
1,2-DIBROMOETHANE
Concen: 56.46 PPBV
RT: 8.010 min Scan# 2464
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:107 Resp: 1223967

Ion	Ratio	Lower	Upper
107	100		
109	94.2	66.1	122.8
188	3.6	2.5	4.6

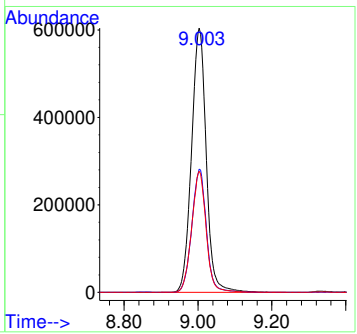


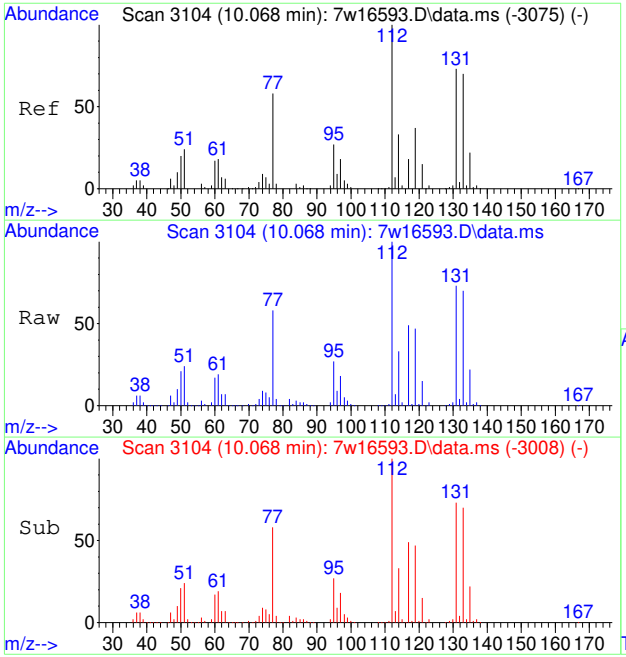


#75
OCTANE
Concen: 52.30 PPBV
RT: 9.003 min Scan# 2773
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1670114

Ion	Ratio	Lower	Upper
43	100		
85	46.2	31.8	59.0
57	45.2	31.4	58.2

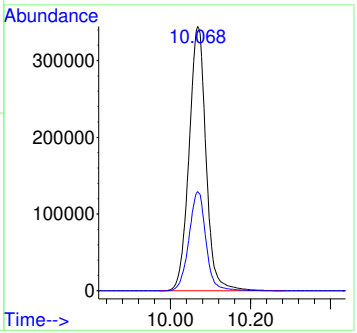


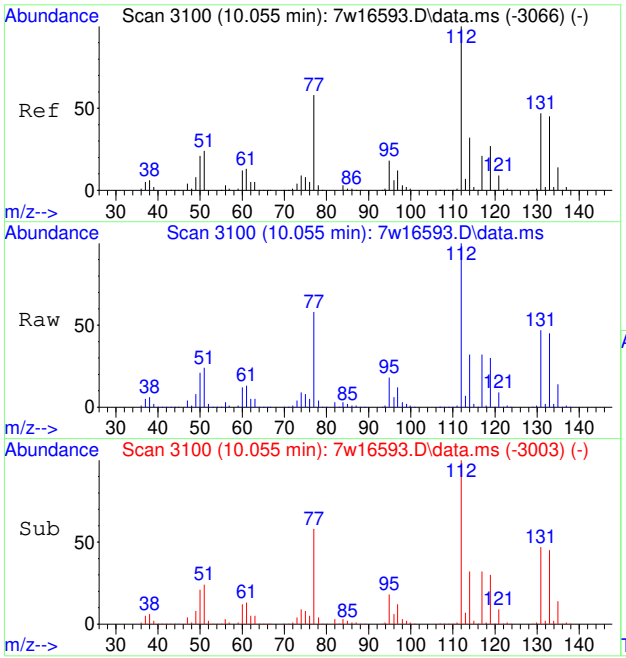


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 57.95 PPBV
RT: 10.068 min Scan# 3104
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:131 Resp: 1014574

Ion	Ratio	Lower	Upper
131	100		
95	37.6	26.5	49.1

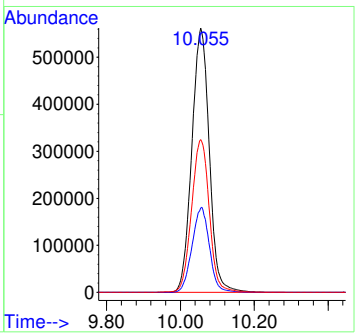


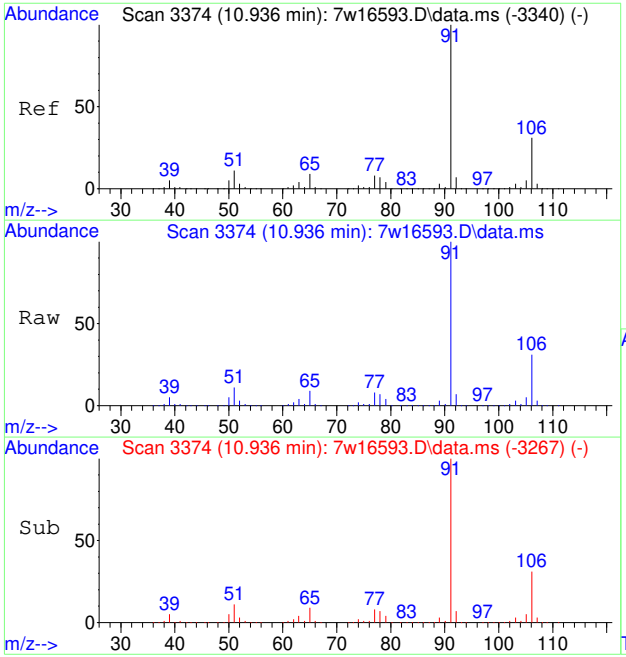


#78
CHLOROBENZENE
Concen: 54.82 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:112 Resp: 1847440

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.5	41.7
77	58.8	42.1	78.1

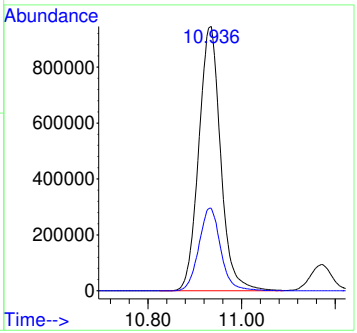


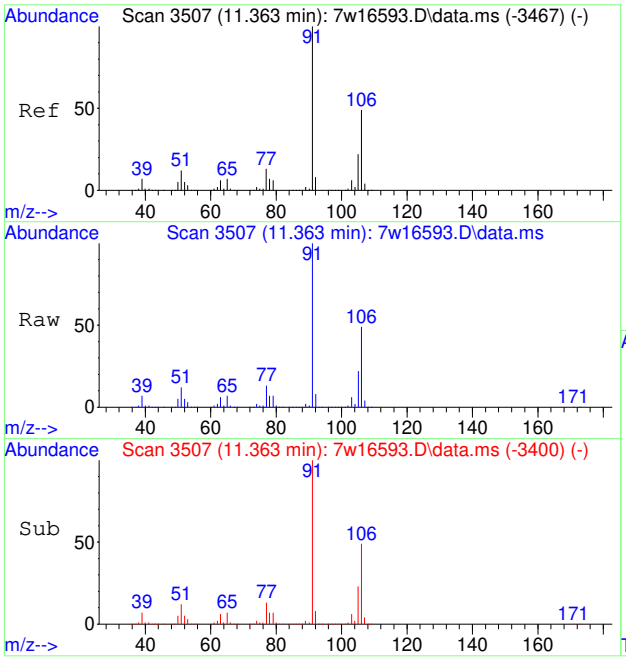


#79
ETHYLBENZENE
Concen: 55.49 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 3062670

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

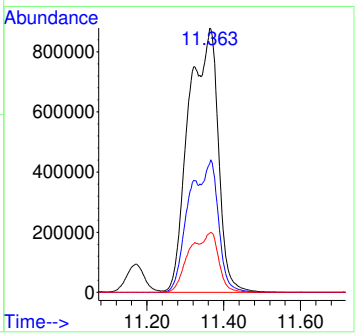


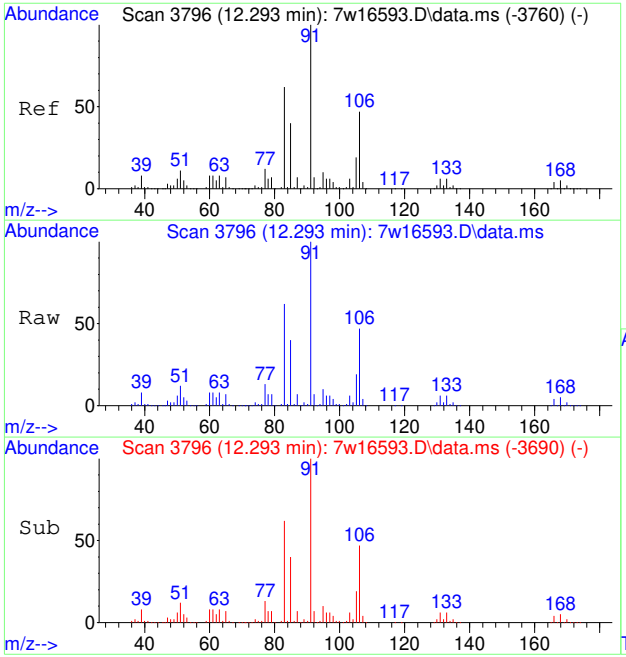


#80
M,P-XYLENE
Concen: 104.27 PPBV
RT: 11.363 min Scan# 3507
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 4688509

Ion	Ratio	Lower	Upper
91	100		
106	27.6	0.0	56.1
105	22.5	0.0	42.1

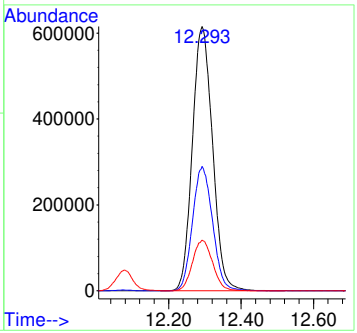


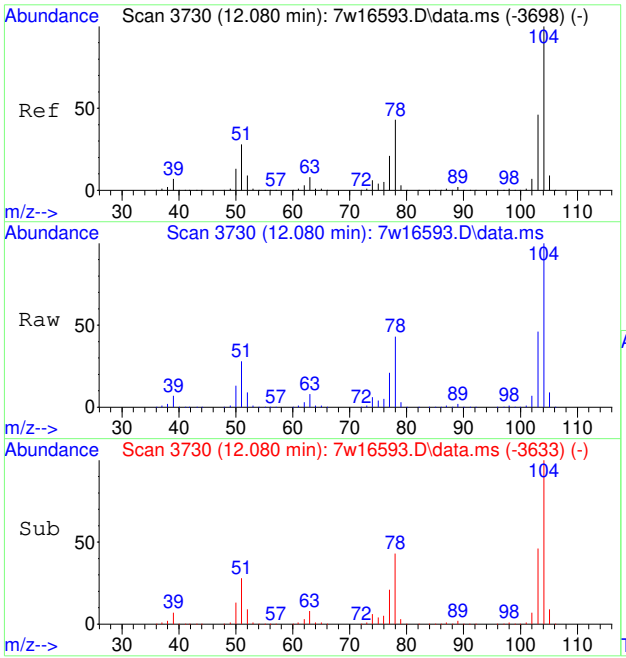


#81
O-XYLENE
Concen: 54.76 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2383048

Ion	Ratio	Lower	Upper
91	100		
106	47.0	31.8	59.0
105	19.2	13.0	24.2

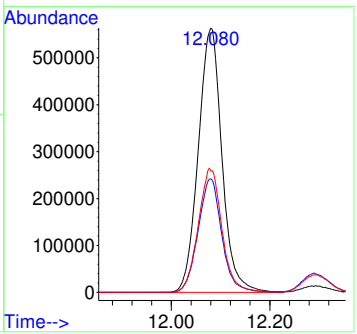


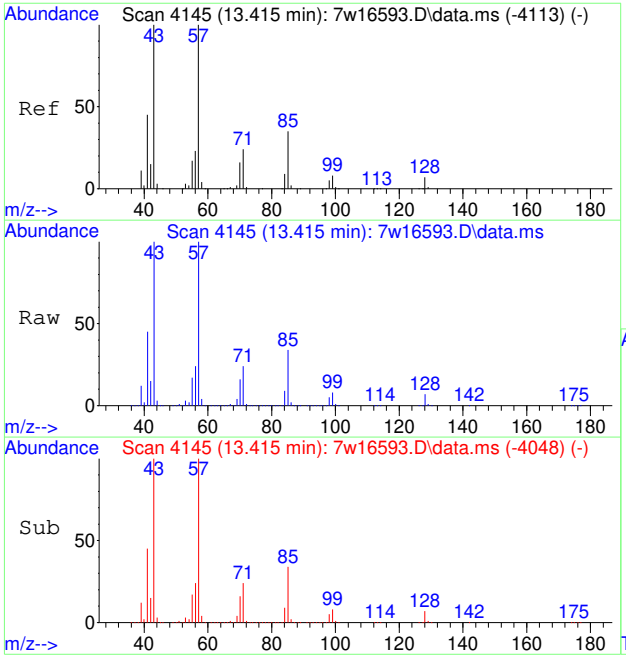


#82
STYRENE
Concen: 58.71 PPBV
RT: 12.080 min Scan# 3730
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:104 Resp: 1884473

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

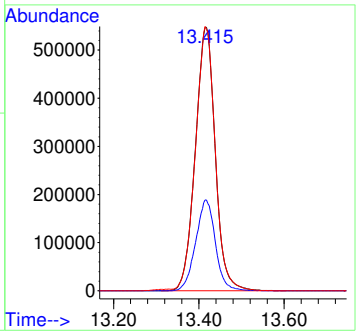


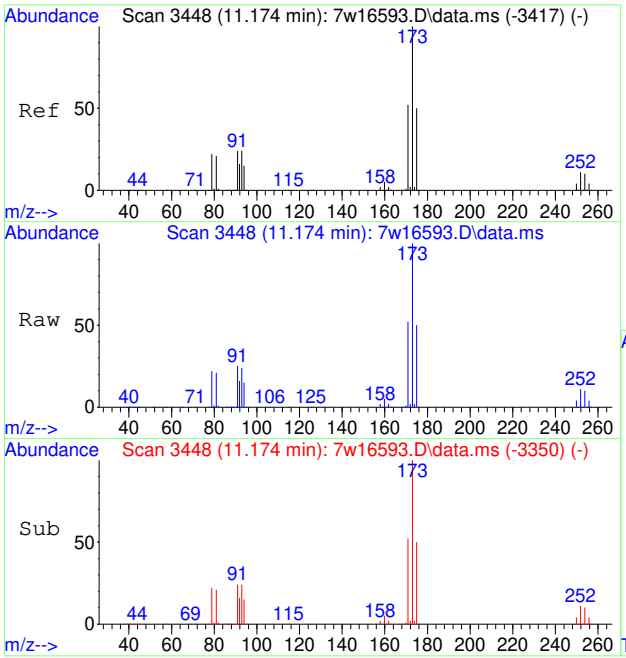


#83
NONANE
Concen: 52.08 PPBV
RT: 13.415 min Scan# 4145
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1775546

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.5	69.2	128.6

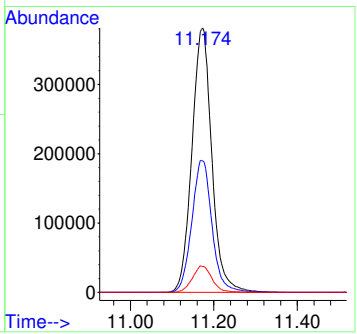


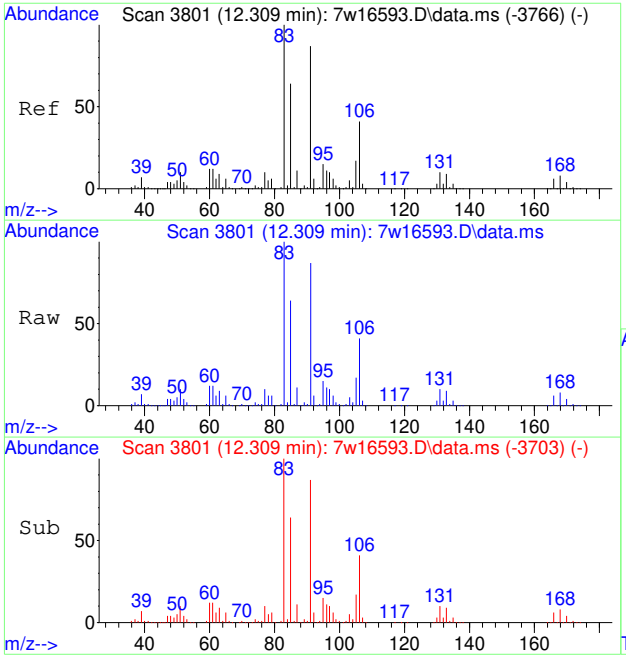


#84
BROMOFORM
Concen: 63.02 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:173 Resp: 1265430

Ion	Ratio	Lower	Upper
173	100		
175	50.6	35.1	65.1
254	10.0	6.7	12.5

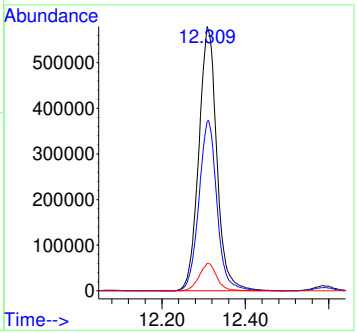


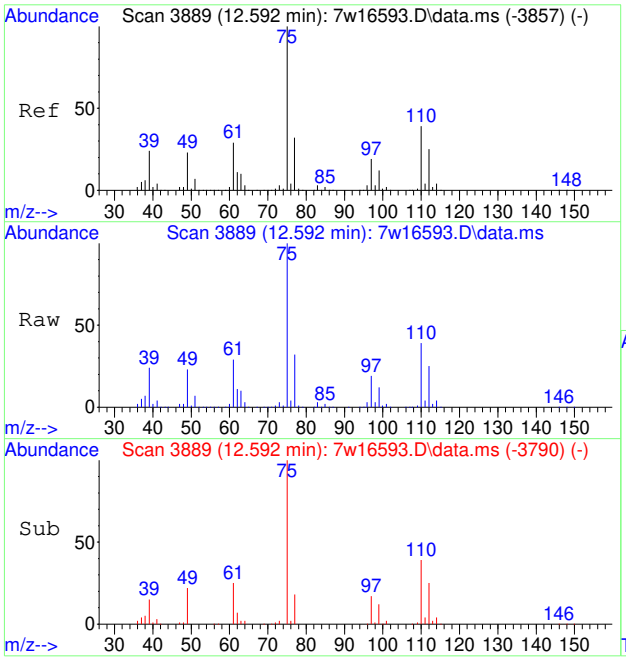


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 55.83 PPBV
RT: 12.309 min Scan# 3801
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1733579

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.3	7.3	13.5

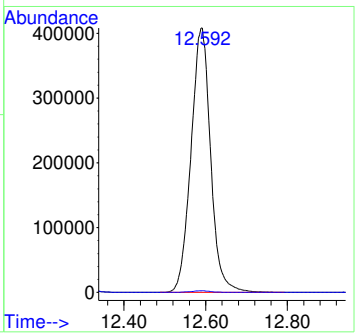


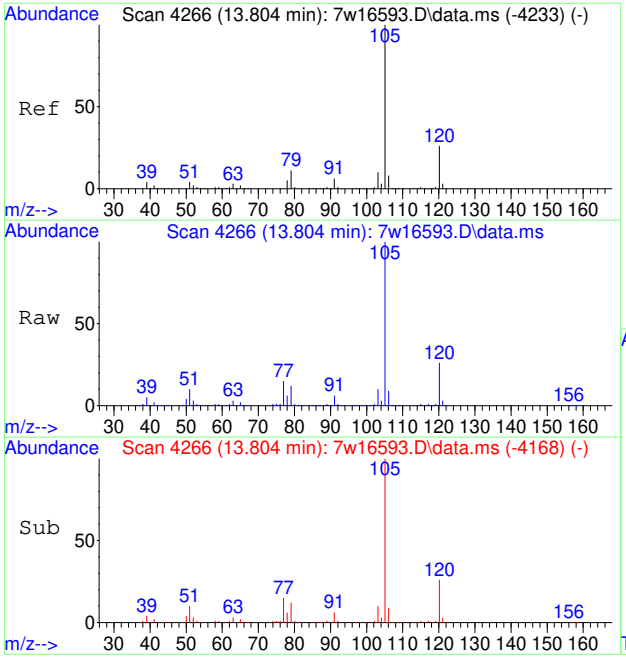


#86
1,2,3-TRICHLOROPROPANE
Concen: 55.93 PPBV
RT: 12.592 min Scan# 3889
Delta R.T. 0.019 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1360230

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

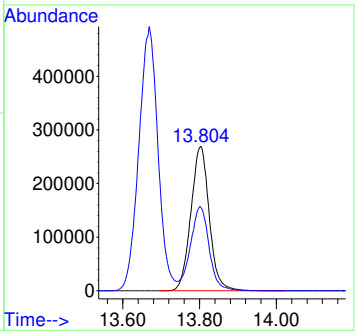


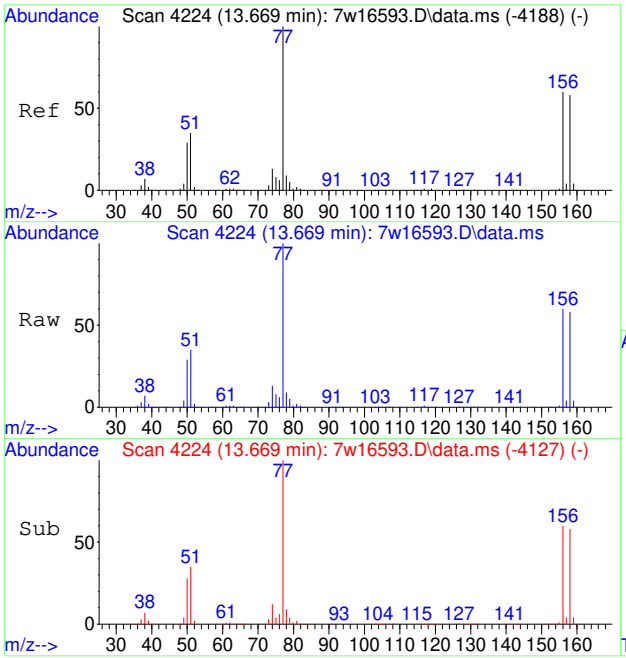


#88
ISOPROPYLBENZENE
Concen: 54.23 PPBV
RT: 13.804 min Scan# 4266
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 894931

Ion	Ratio	Lower	Upper
120	100		
77	59.5	42.5	78.9

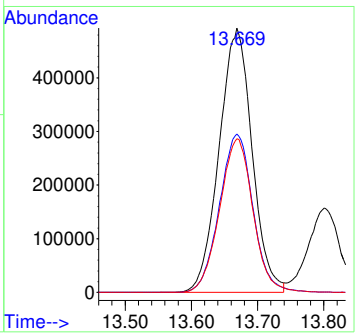


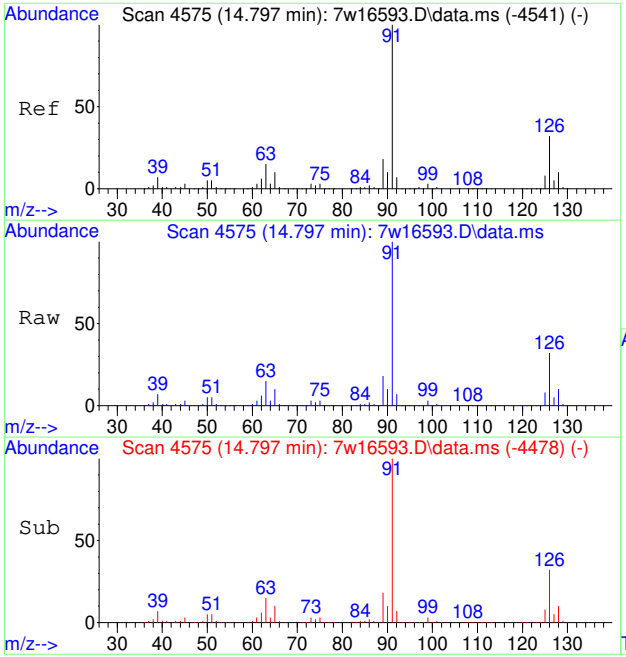


#89
BROMOBENZENE
Concen: 53.56 PPBV
RT: 13.669 min Scan# 4224
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 77 Resp: 1702334

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	59.1	40.9	76.0

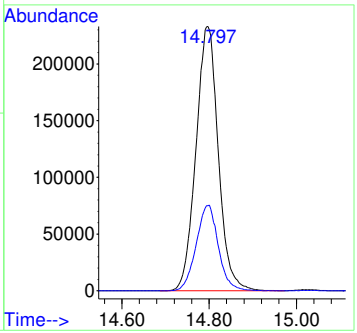


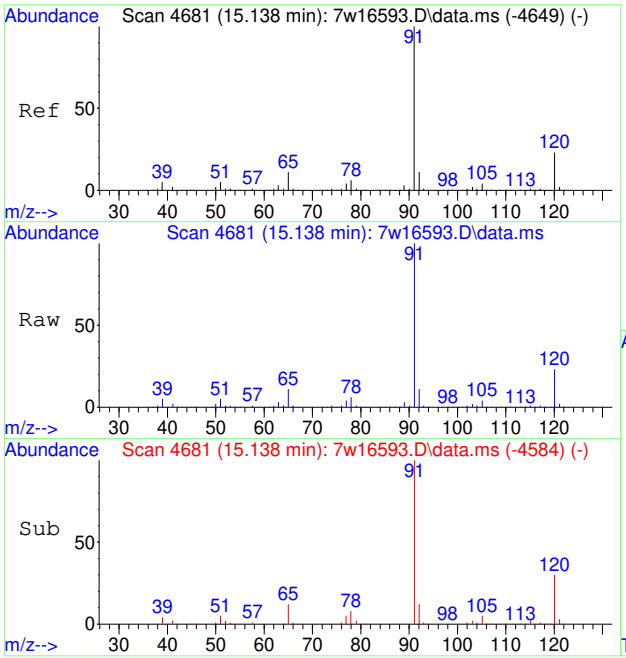


#90
2-CHLOROTOLUENE
Concen: 54.34 PPBV
RT: 14.797 min Scan# 4575
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:126 Resp: 829710

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

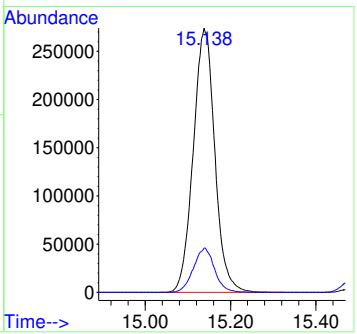


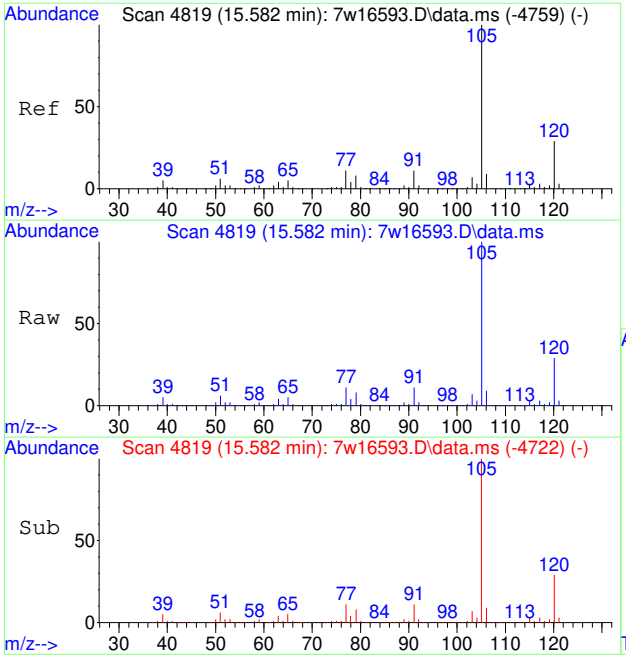


#91
N-PROPYLBENZENE
Concen: 55.42 PPBV
RT: 15.138 min Scan# 4681
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 961239

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

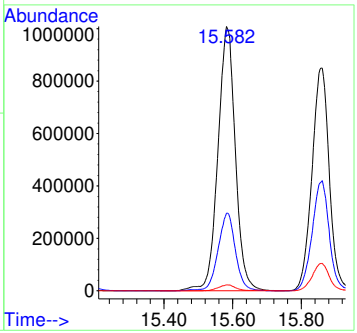


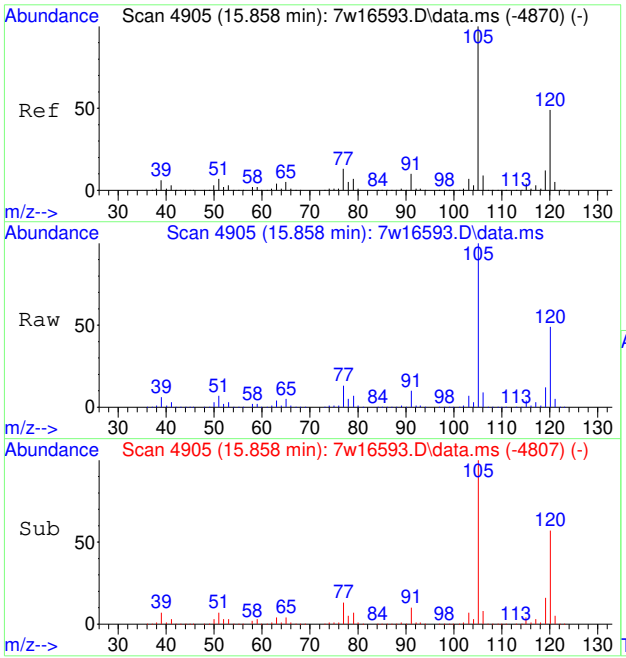


#92
4-ETHYLTOLUENE
Concen: 55.47 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3566781

Ion	Ratio	Lower	Upper
105	100		
120	29.3	20.7	38.5
119	2.2	1.6	3.0

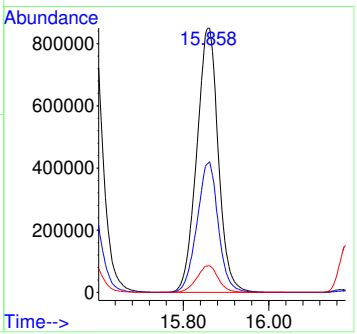


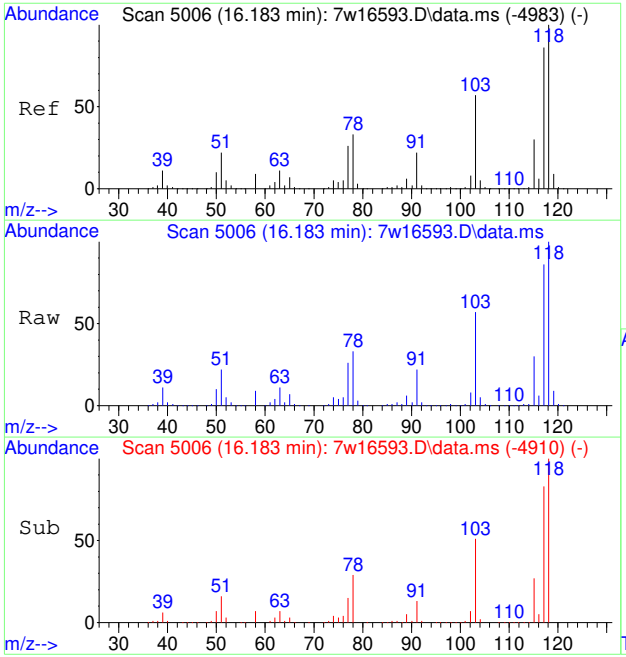


#93
1,3,5-TRIMETHYLBENZENE
Concen: 55.47 PPBV
RT: 15.858 min Scan# 4905
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2975442

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

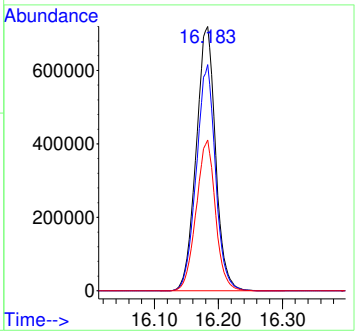


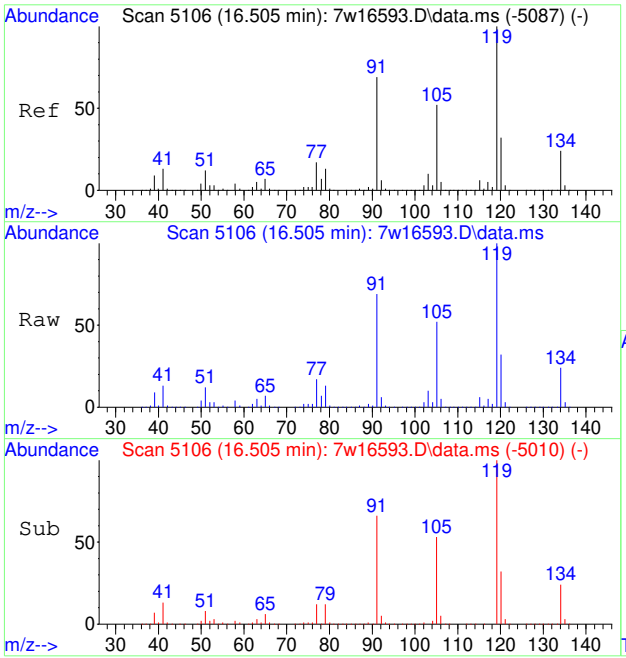


#94
ALPHA-METHYLSTYRENE
Concen: 57.73 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:118 Resp: 1513322

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.8	40.3	74.9

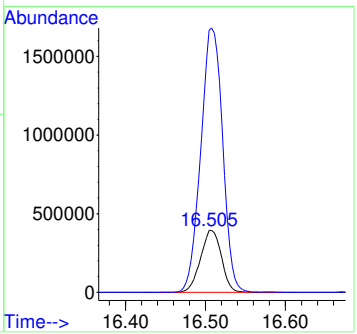


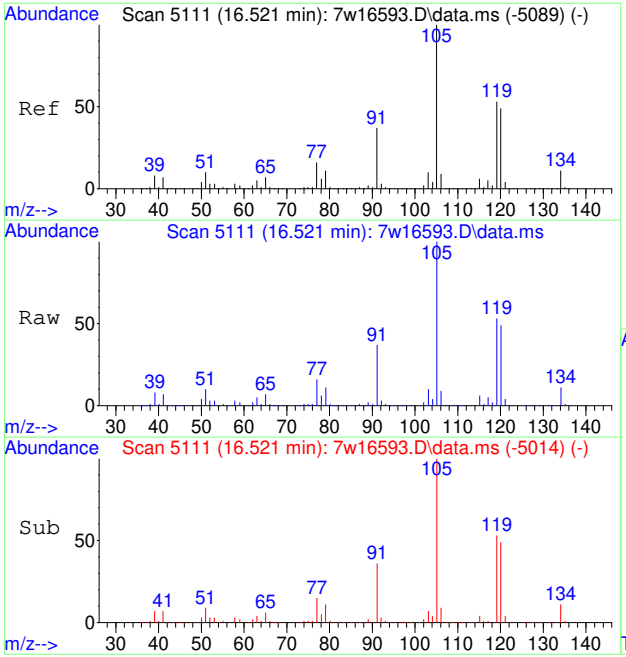


#95
TERT-BUTYLBENZENE
Concen: 54.19 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 714841

Ion	Ratio	Lower	Upper
134	100		
119	446.9	311.3	578.1

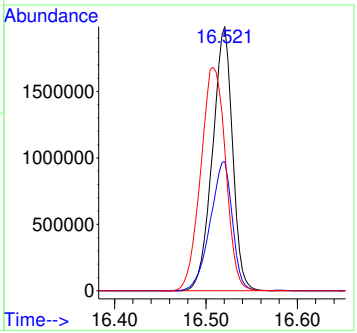


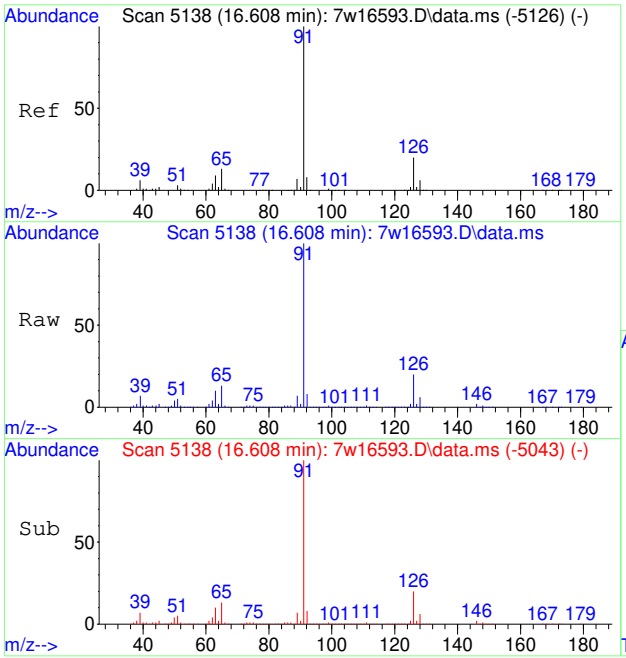


#96
1,2,4-TRIMETHYLBENZENE
Concen: 57.25 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3037196

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

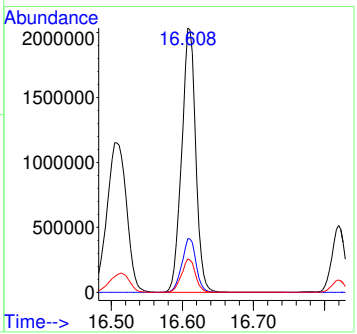


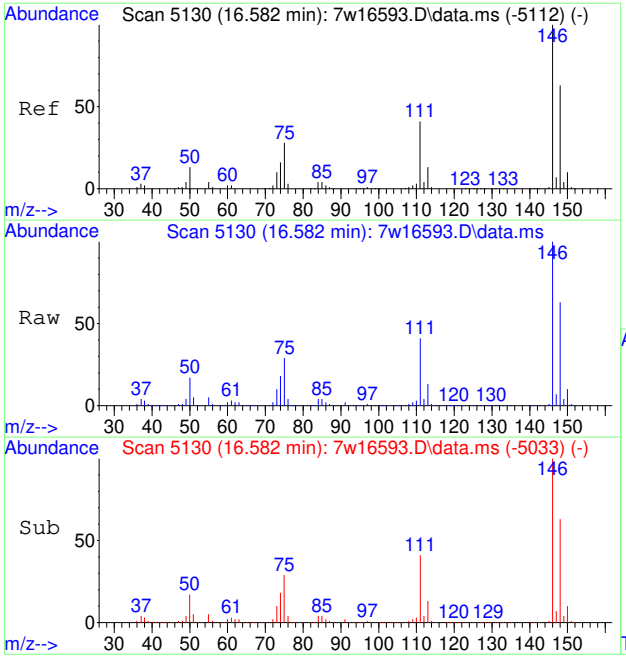


#97
BENZYL CHLORIDE
Concen: 68.69 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2795409

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.6	9.2	17.0

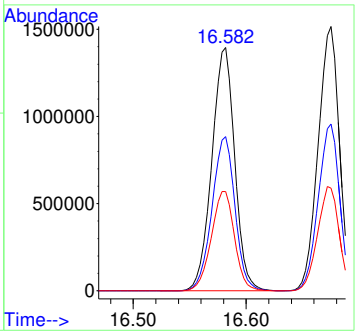


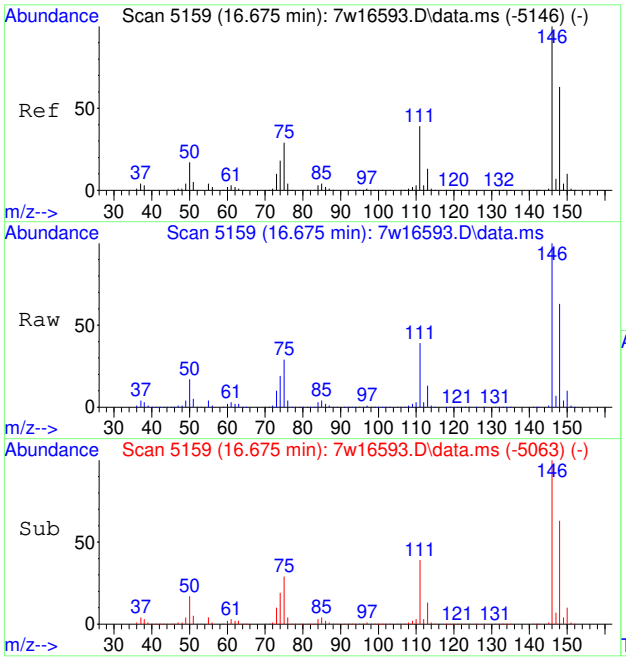


#98
M-DICHLOROBENZENE
Concen: 53.40 PPBV
RT: 16.582 min Scan# 5130
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1958237

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.6	82.8
111	41.4	29.3	54.3

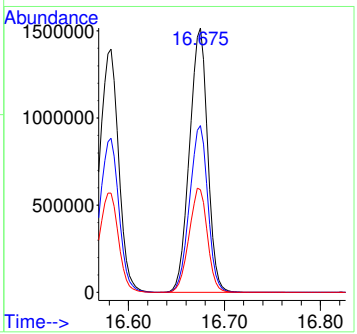


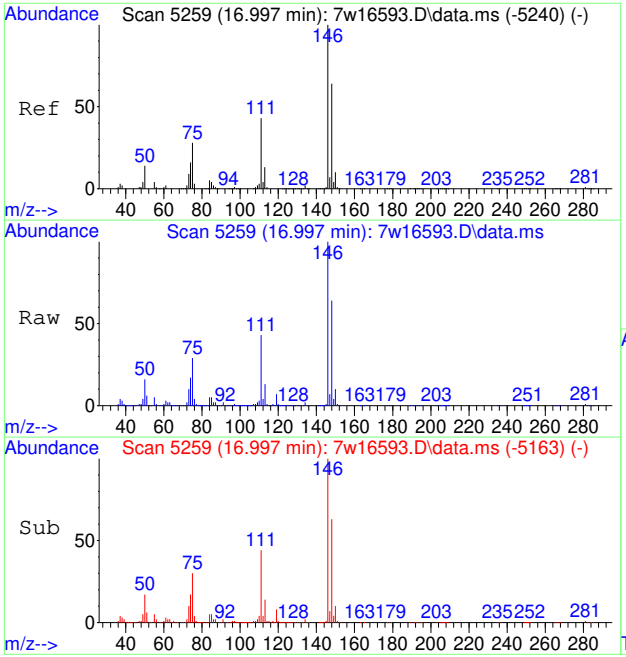


#99
P-DICHLOROBENZENE
Concen: 55.15 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1991134

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.2	82.2
111	39.9	28.0	52.0

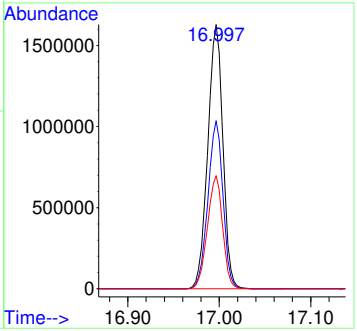


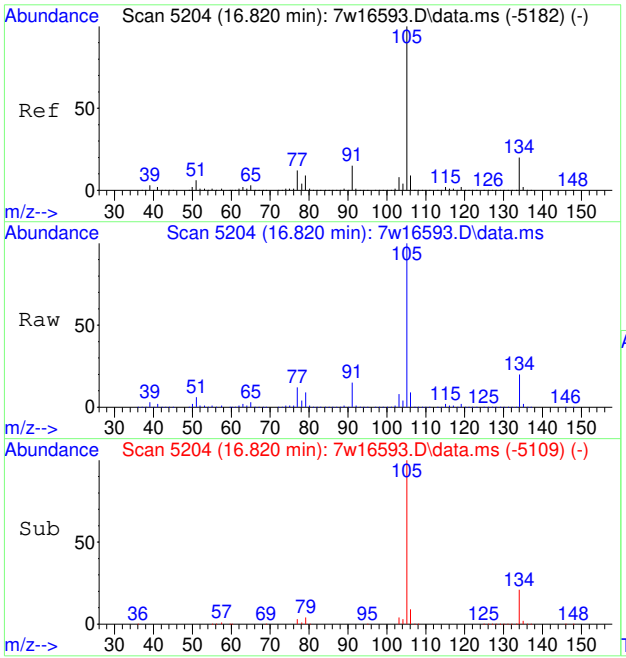


#100
O-DICHLOROBENZENE
Concen: 55.08 PPBV
RT: 16.997 min Scan# 5259
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1868131

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

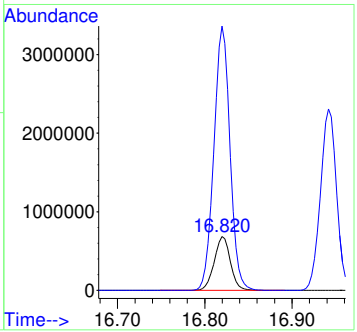


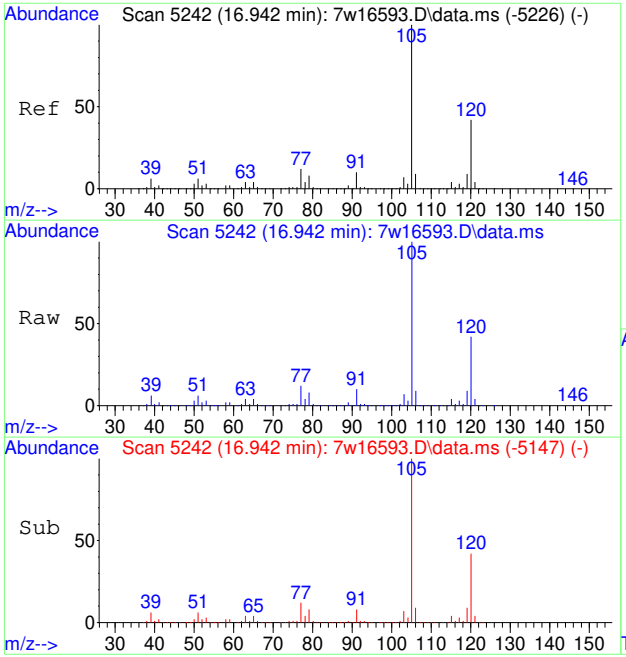


#101
SEC-BUTYLBENZENE
Concen: 56.32 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 879244

Ion	Ratio	Lower	Upper
134	100		
105	490.4	344.8	640.3

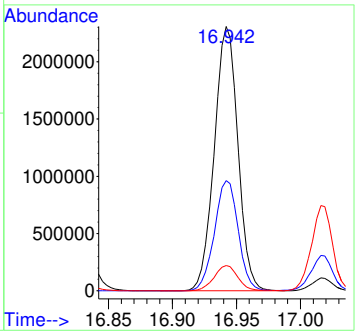


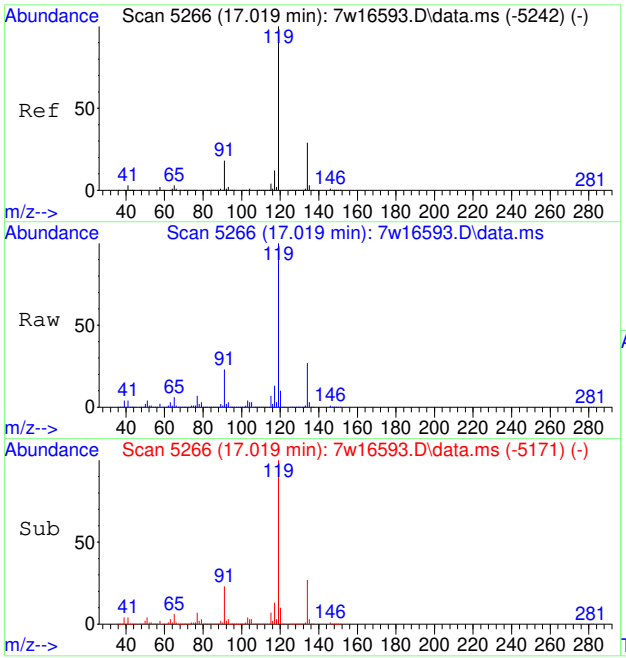


#102
1,2,3-TRIMETHYLBENZENE
Concen: 55.49 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2956799

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	9.7	7.0	13.0

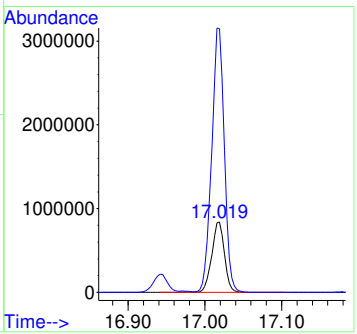


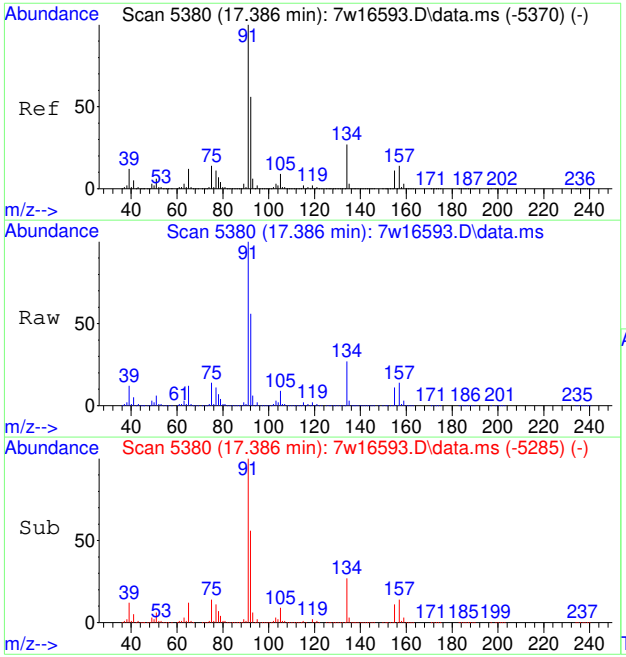


#103
P-ISOPROPYLTOLUENE
Concen: 55.64 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 964439

Ion	Ratio	Lower	Upper
134	100		
119	374.7	261.4	485.4

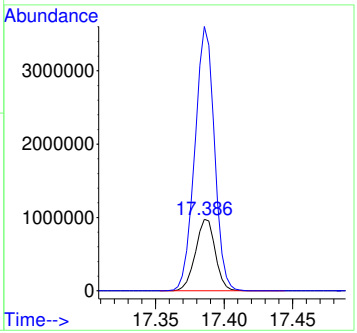


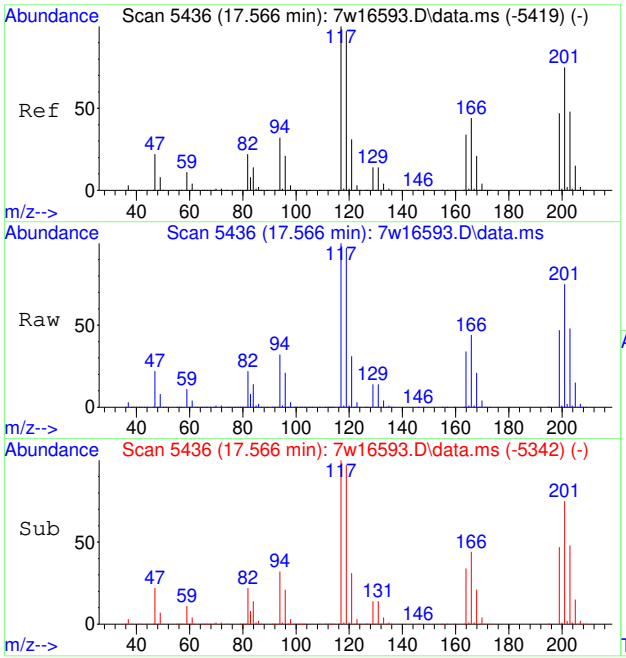


#104
N-BUTYLBENZENE
Concen: 59.74 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 974353

Ion	Ratio	Lower	Upper
134	100		
91	366.6	261.0	484.8

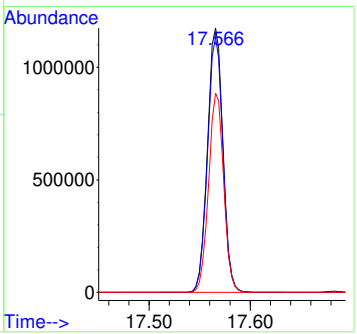


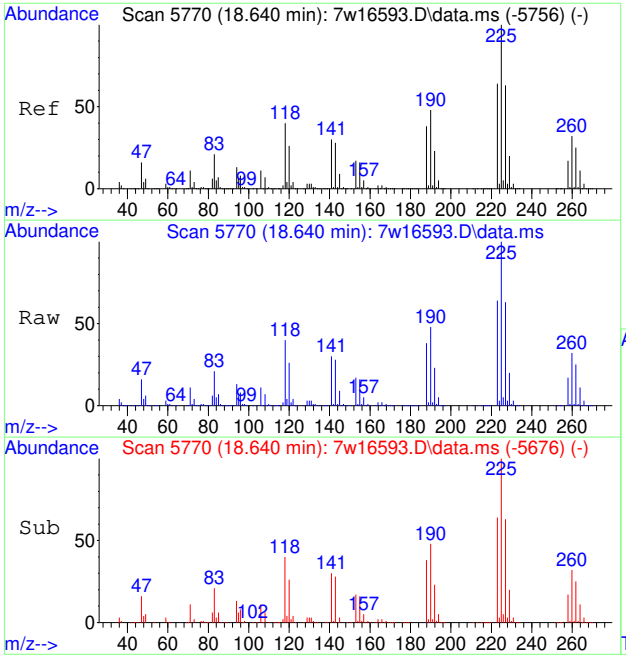


#105
HEXACHLOROETHANE
Concen: 62.73 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1246101

Ion	Ratio	Lower	Upper
117	100		
119	95.9	67.7	125.7
201	73.7	49.8	92.6

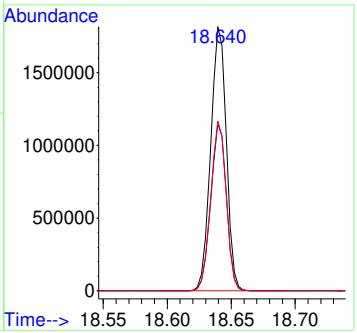


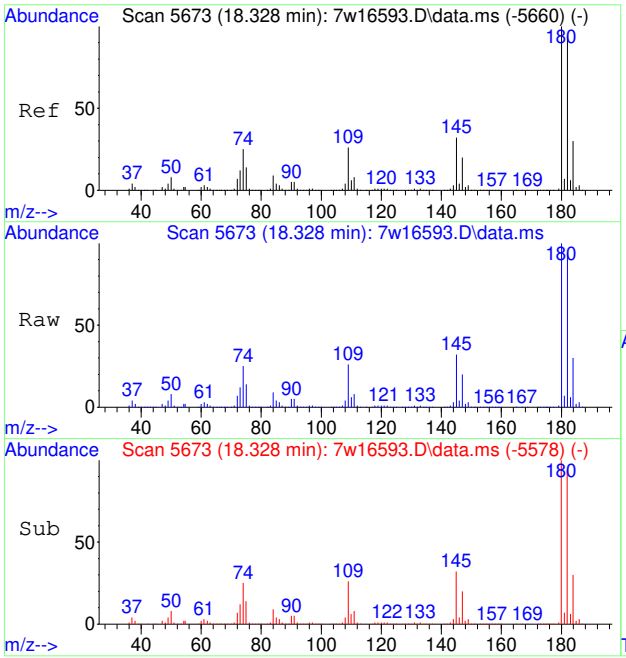


#106
HEXACHLOROBUTADIENE
Concen: 64.95 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:225 Resp: 1541106

Ion	Ratio	Lower	Upper
225	100		
227	63.0	44.6	82.8
223	63.6	44.6	82.8

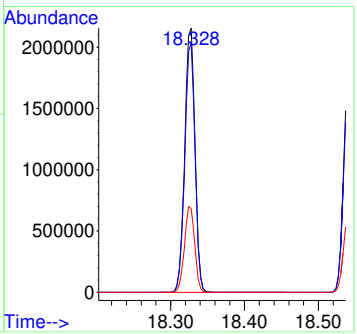


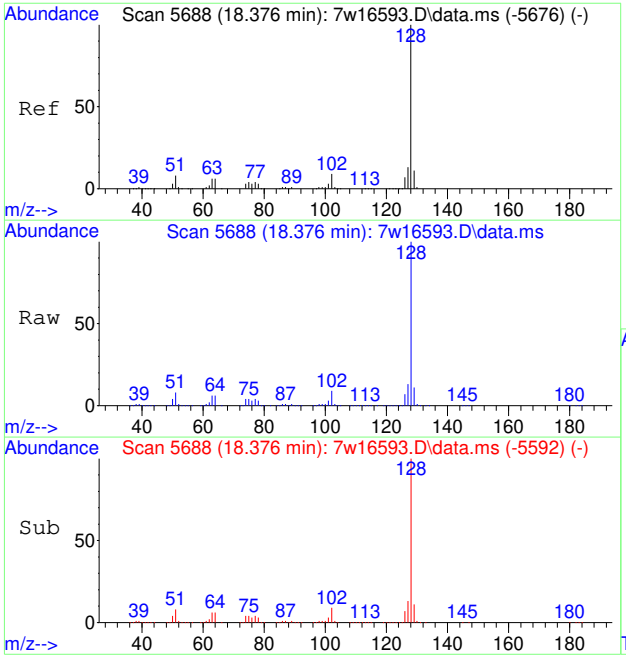


#107
1,2,4-TRICHLOROBENZENE
Concen: 76.81 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:180 Resp: 2093092

Ion	Ratio	Lower	Upper
180	100		
182	94.1	66.6	123.6
145	32.6	22.5	41.9

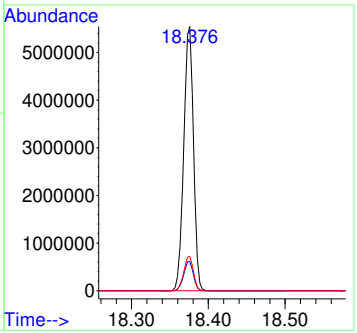


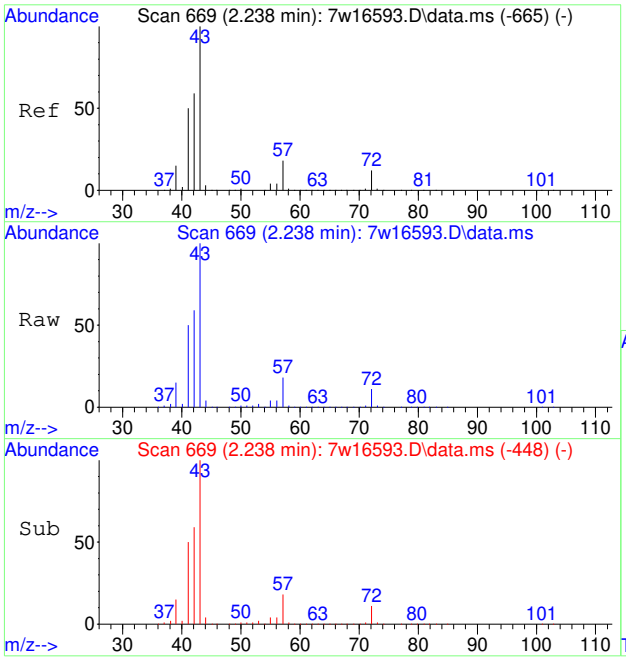


#108
NAPHTHALENE
Concen: 81.19 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:128 Resp: 4901356

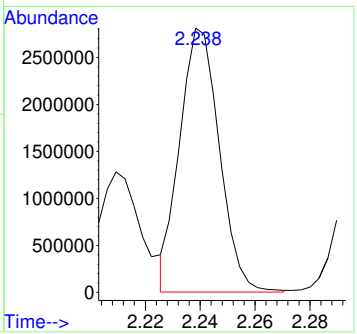
Ion	Ratio	Lower	Upper
128	100		
129	11.1	7.5	13.9
127	12.9	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 45.25 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:TIC Resp: 2811423



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16593.D
Injection Time: 08/07/25 15:15

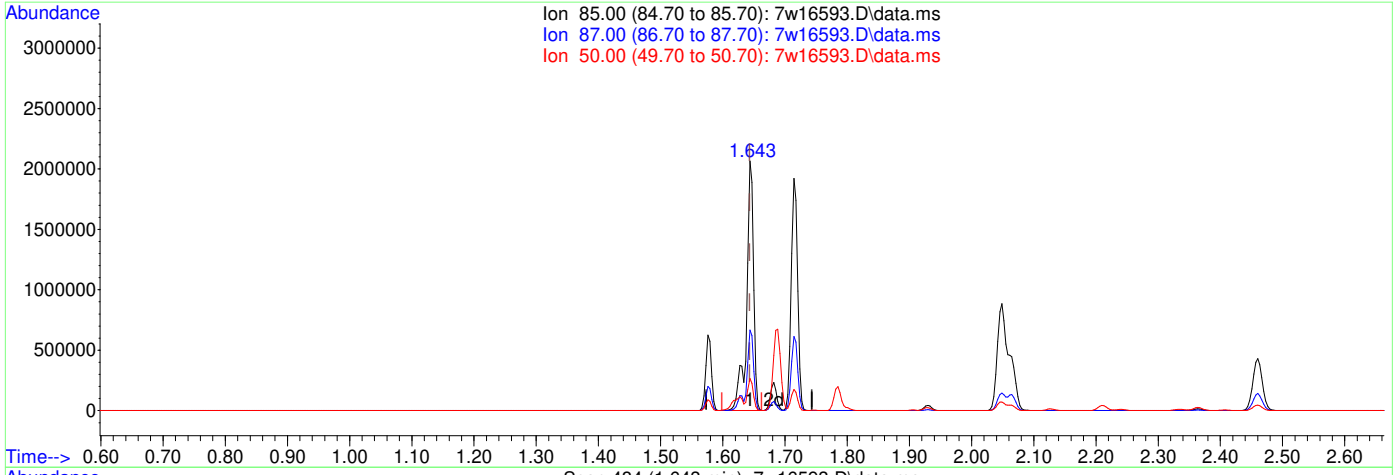
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

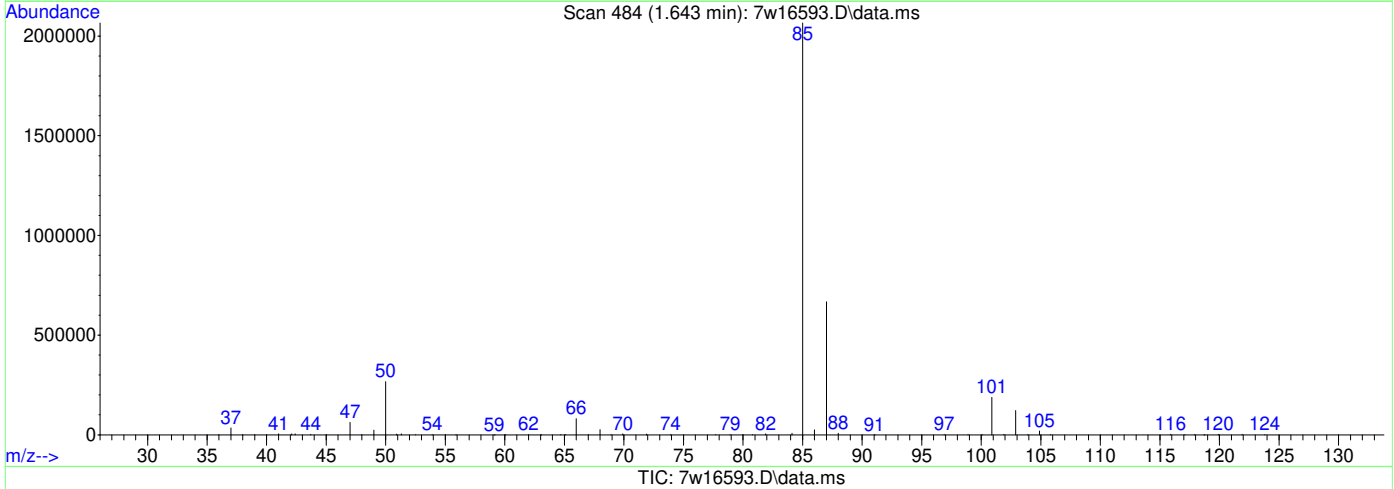
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 53.32PPBV

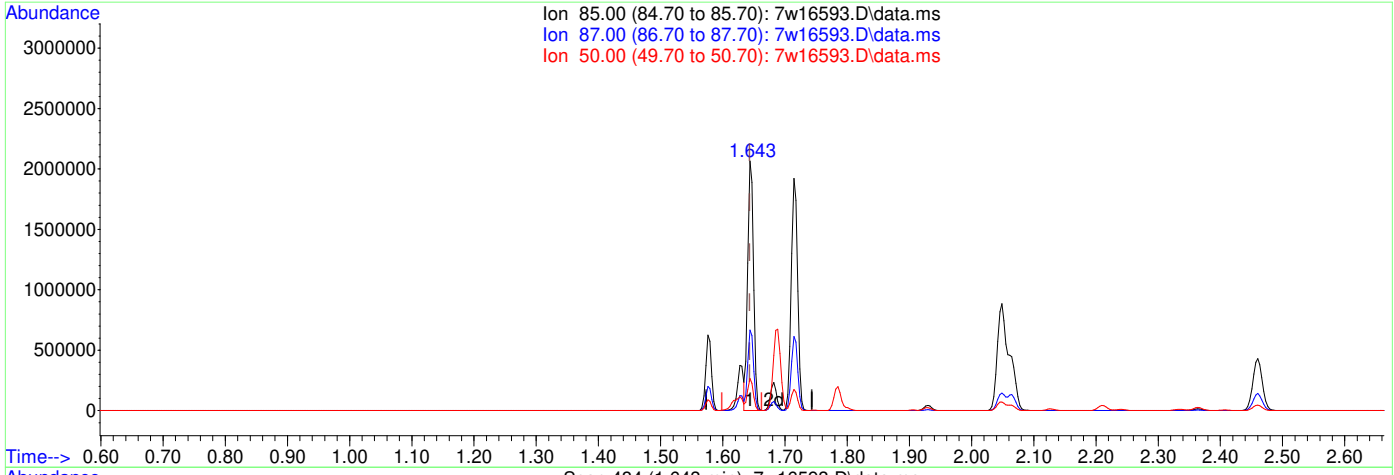
response 1605785

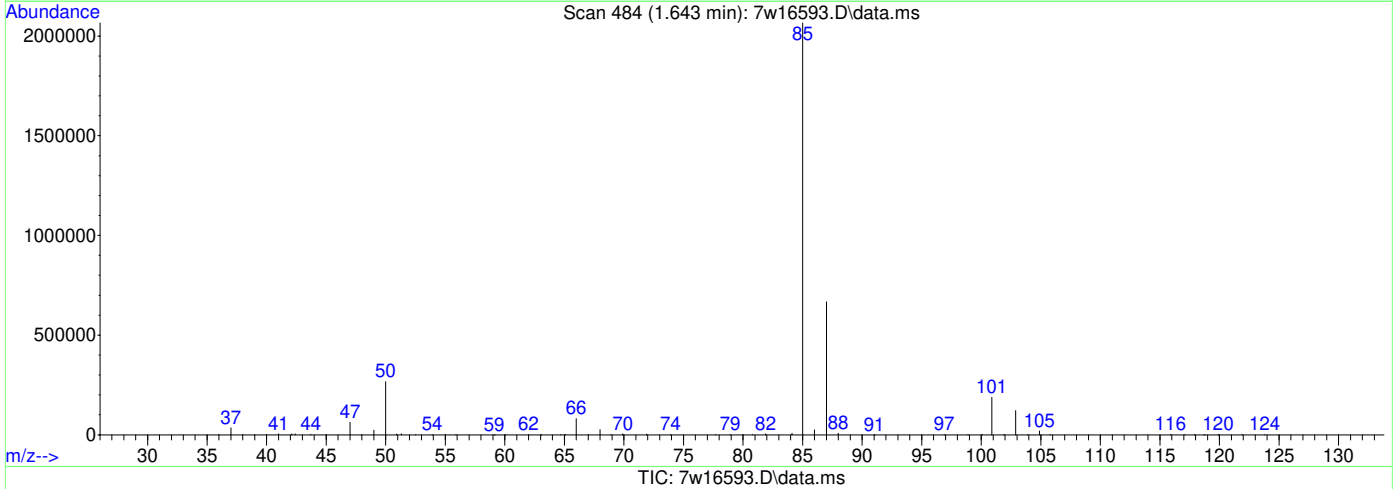
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.49
50.00	19.30	18.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 44.53PPBV m

response 1341049

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.90
50.00	19.30	22.31
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	106909	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	531012	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	486982	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	106911	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.321	95	402638	10.30	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	416591	62.18	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	181942	62.53	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.631	116	917974	65.92	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.643	85	1586079m	52.05	PPBV		
7) PROPYLENE	1.627	41	519681	59.64	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1374618	59.89	PPBV		99
9) FREON 114	1.714	85	1619416	61.25	PPBV		99
10) CHLOROMETHANE	1.688	52	212421	57.28	PPBV		98
11) VINYL CHLORIDE	1.746	62	763152	58.43	PPBV		99
12) 1,3-BUTADIENE	1.785	54	588014	56.79	PPBV		97
13) N-BUTANE	1.801	43	1009195	57.39	PPBV		99
14) BROMOMETHANE	1.859	94	580953	57.25	PPBV		99
15) CHLOROETHANE	1.904	64	396609	55.81	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	1380281	56.11	PPBV		99
17) ACETONITRILE	1.994	41	581922	47.00	PPBV		99
18) ACROLEIN	2.032	56	334897	57.43	PPBV		100
19) FREON 123	2.049	83	1521669	61.54	PPBV		100
20) FREON 123A	2.065	117	890775	60.73	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1563139	55.76	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1360413	57.05	PPBV		99
23) ACETONE	2.071	58	370968	56.95	PPBV		93
24) PENTANE	2.238	42	709359	54.82	PPBV		99
25) IODOMETHANE	2.299	142	1579517	61.48	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	645693	60.57	PPBV		94
27) CARBON DISULFIDE	2.463	76	1800975	59.49	PPBV		96
28) ETHANOL	1.933	45	326453	51.26	PPBV		99
29) BROMOETHENE	2.004	106	595538	58.65	PPBV		100
30) ACRYLONITRILE	2.209	52	549118	60.13	PPBV		100
31) METHYLENE CHLORIDE	2.364	84	575223	54.71	PPBV		93
32) 3-CHLOROPROPENE	2.405	76	332976	58.47	PPBV		92
33) FREON 113	2.460	151	974461	60.76	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	2.688	96	674414	57.48	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.338	59	1507671	50.59	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	2004125	60.14	PPBV		99
37) TETRAHYDROFURAN	3.467	72	315623	58.71	PPBV		97
38) HEXANE	3.241	57	1329253	59.12	PPBV		95
39) VINYL ACETATE	2.830	86	203564	64.15	PPBV		90
40) 1,1-DICHLOROETHANE	2.762	63	1312399	57.90	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	360548	58.79	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	737182	60.78	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	381162	59.86	PPBV		90
44) ETHYL ACETATE	3.251	61	270078	63.06	PPBV		85
45) METHYL ACRYLATE	3.238	55	1639035	60.36	PPBV	#	100
46) CHLOROFORM	3.267	83	1396609	59.52	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1562455	62.29	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1503844	61.02	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1592865	62.67	PPBV		100
50) 1,2-DICHLOROETHANE	3.666	62	1086518	59.76	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.132	78	2141182	59.55	PPBV		99
53)	CYCLOHEXANE	4.335	84	968144	62.31	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.589	71	501690	64.89	PPBV		100
55)	TRICHLOROETHENE	5.023	95	961087	57.89	PPBV		99
56)	1,2-DICHLOROPROPANE	4.788	63	899764	61.43	PPBV		99
57)	DIBROMOMETHANE	4.749	174	843168	59.53	PPBV		98
58)	ETHYL ACRYLATE	4.907	55	2081872	63.61	PPBV		100
59)	BROMODICHLOROMETHANE	4.968	83	1618277	60.60	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.113	57	4127531	57.19	PPBV		100
61)	1,4-DIOXANE	5.026	88	483214m	61.98	PPBV		
62)	HEPTANE	5.425	43	1404941	59.03	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	825175	62.06	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.048	58	823387	57.66	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.946	75	1444587	64.81	PPBV		97
66)	TOLUENE	7.138	91	2694962	63.95	PPBV		100
67)	1,3-DICHLOROPROPANE	7.199	76	1360921	64.47	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.618	75	1302469	65.06	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.772	83	774964	64.67	PPBV	#	31
70)	2-HEXANONE	7.704	58	1106138	55.20	PPBV		97
71)	ETHYL METHACRYLATE	7.843	69	1420765	64.21	PPBV		97
72)	TETRACHLOROETHENE	8.855	164	995678	64.80	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.669	129	1671777	69.22	PPBV		100
74)	1,2-DIBROMOETHANE	8.016	107	1452027	66.89	PPBV		100
75)	OCTANE	9.006	43	1982903	62.35	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.071	131	1205798	69.43	PPBV		100
78)	CHLOROBENZENE	10.058	112	2204542	66.36	PPBV		98
79)	ETHYLBENZENE	10.936	91	3650660	67.08	PPBV		100
80)	M,P-XYLENE	11.370	91	5556486	125.67	PPBV		60
81)	O-XYLENE	12.293	91	2839567	66.28	PPBV		98
82)	STYRENE	12.084	104	2245416	70.41	PPBV		99
83)	NONANE	13.421	43	2110946	63.10	PPBV		98
84)	BROMOFORM	11.174	173	1514711	75.01	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	12.315	83	2064226	67.37	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.595	75	1624746	67.69	PPBV		100
88)	ISOPROPYLBENZENE	13.807	120	1073063	65.98	PPBV		97
89)	BROMOBENZENE	13.672	77	2035109	65.06	PPBV		99
90)	2-CHLOROTOLUENE	14.800	126	993540	65.73	PPBV		100
91)	N-PROPYLBENZENE	15.141	120	1146895	66.71	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	4258764	66.89	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.865	105	3539586	66.72	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.183	118	1802748	68.96	PPBV		99
95)	TERT-BUTYLBENZENE	16.508	134	849405	65.41	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3598939	68.48	PPBV		99
97)	BENZYL CHLORIDE	16.611	91	3366305	81.19	PPBV		99
98)	M-DICHLOROBENZENE	16.585	146	2335430	64.53	PPBV		99
99)	P-DICHLOROBENZENE	16.675	146	2373563	66.58	PPBV		100
100)	O-DICHLOROBENZENE	17.000	146	2236033	66.71	PPBV		100
101)	SEC-BUTYLBENZENE	16.823	134	1046061	67.84	PPBV		98
102)	1,2,3-TRIMETHYLBENZENE	16.945	105	3529094	66.96	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.019	134	1145439	66.86	PPBV		100
104)	N-BUTYLBENZENE	17.389	134	1159070	71.38	PPBV		97
105)	HEXACHLOROETHANE	17.566	117	1491790	74.98	PPBV		98
106)	HEXACHLOROBUTADIENE	18.640	225	1851997	78.27	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2599589	93.58	PPBV		99
108)	NAPHTHALENE	18.376	128	6111699	98.65	PPBV		98
110)	TVHC as equiv Pentane	2.238	TIC	3312203	53.84	PPBV		100

Quantitation Report (QT Reviewed)

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Acq On : 7 Aug 2025 4:02 pm
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Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
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Acq On : 7 Aug 2025 4:02 pm
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Quant Time: Aug 08 16:05:36 2025
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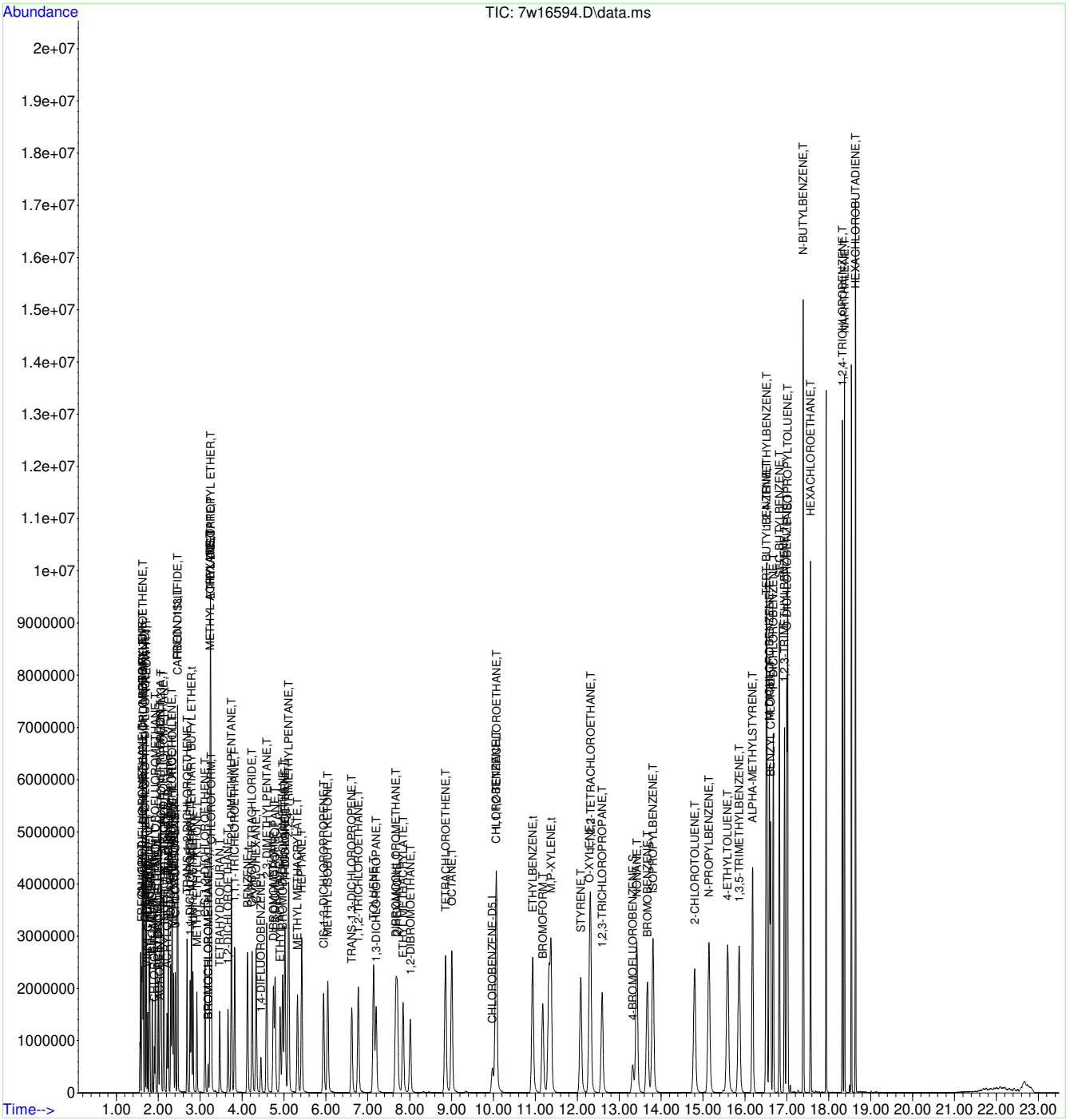
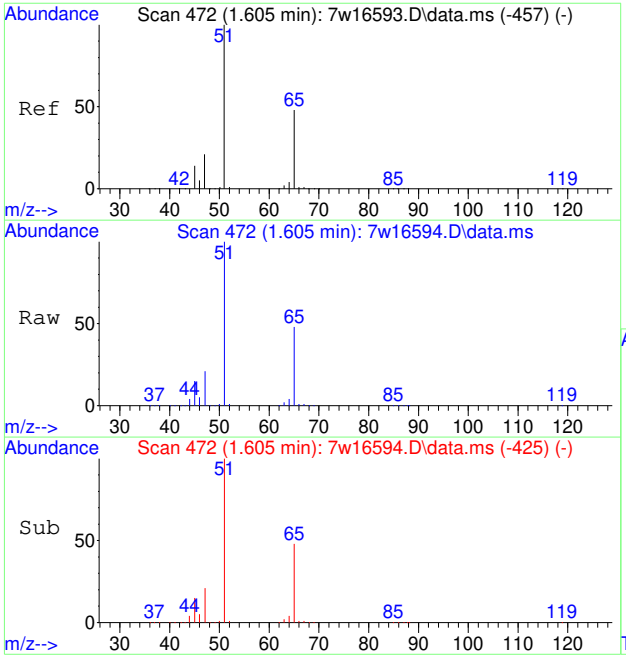
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

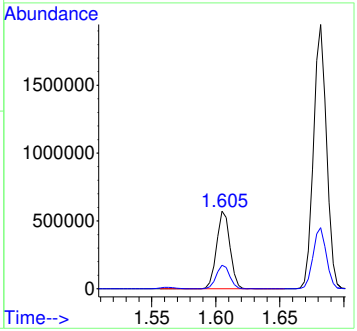


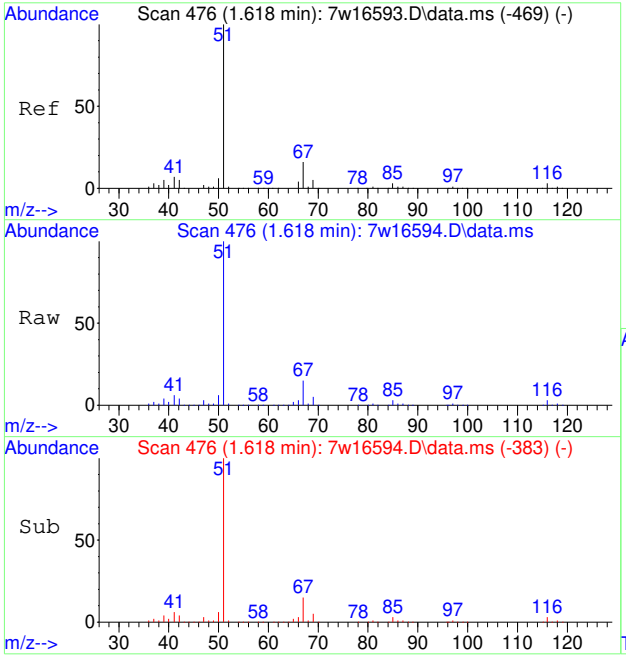


#3
FREON 152A
Concen: 62.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 416591

Ion	Ratio	Lower	Upper
65	100		
45	30.5	23.0	42.8

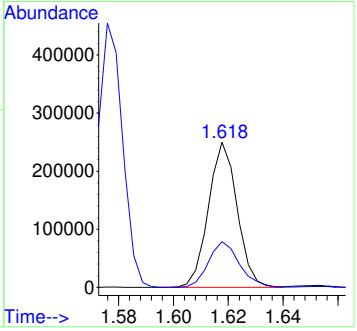


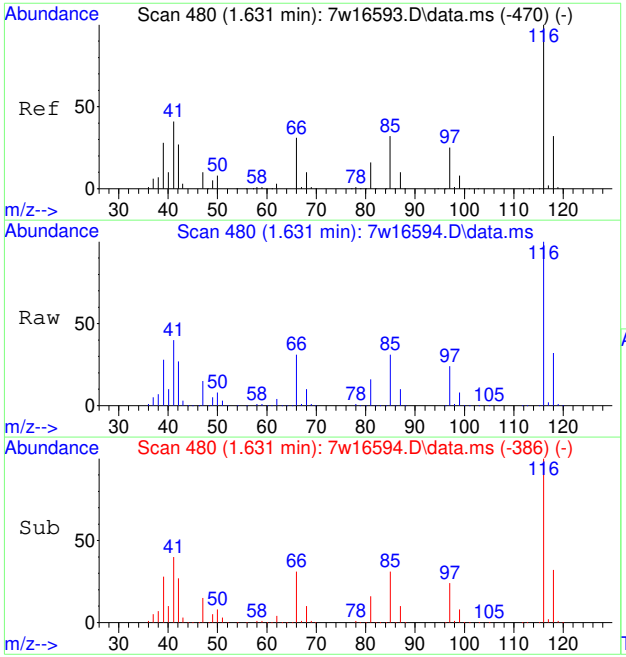


#4
CHLORODIFLUOROMETHANE
Concen: 62.53 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 181942

Ion	Ratio	Lower	Upper
67	100		
69	34.8	25.3	47.1

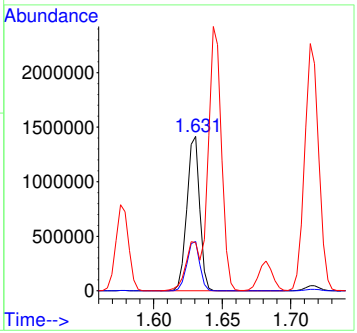


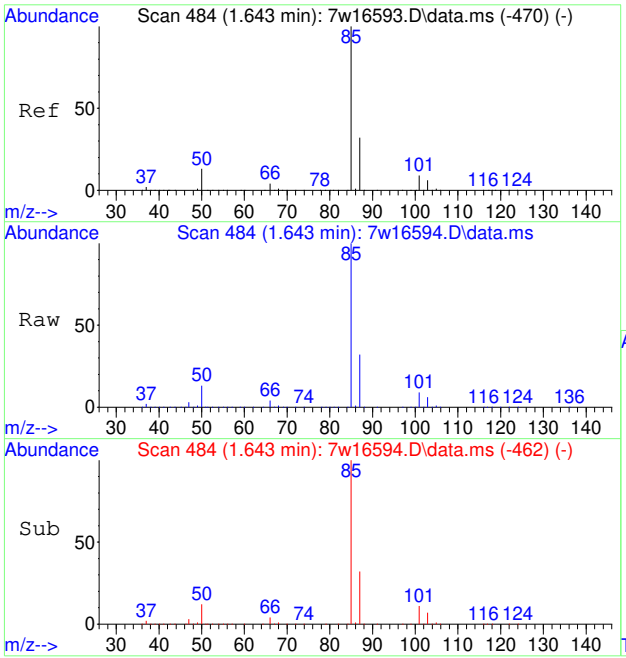


#5
CHLOROTRIFLUOROETHENE
Concen: 65.92 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:116 Resp: 917974

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	207.3	152.4	283.0

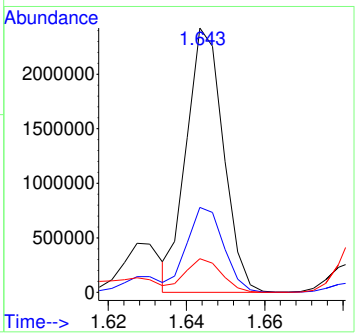


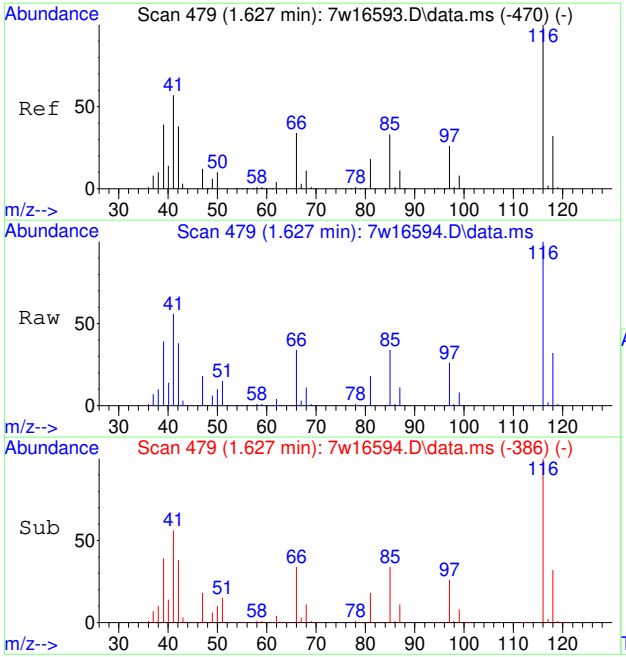


#6
DICHLORODIFLUOROMETHANE
Concen: 52.05 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1586079

Ion	Ratio	Lower	Upper
85	100		
87	38.8	23.0	42.6
50	22.3	13.5	25.1

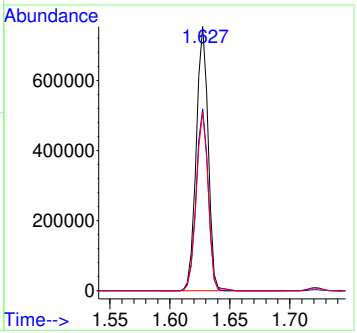


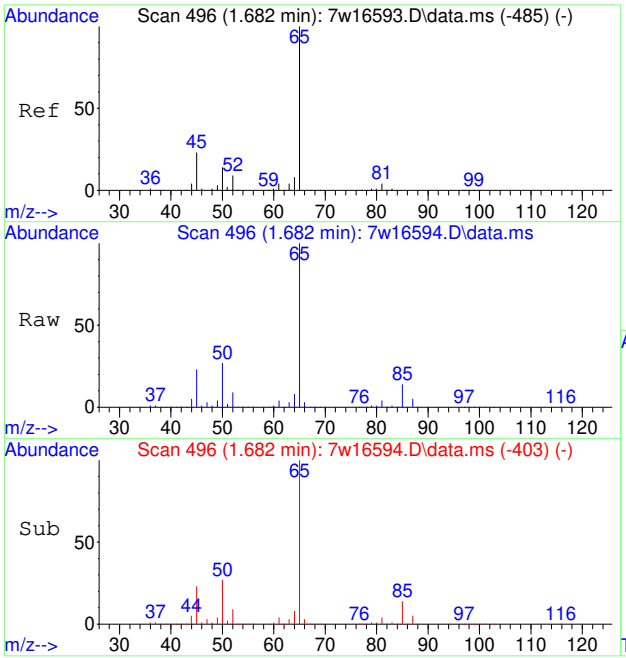


#7
PROPYLENE
Concen: 59.64 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 519681

Ion	Ratio	Lower	Upper
41	100		
39	69.0	50.5	93.7
42	67.4	47.0	87.4

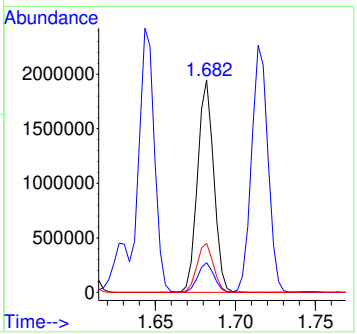


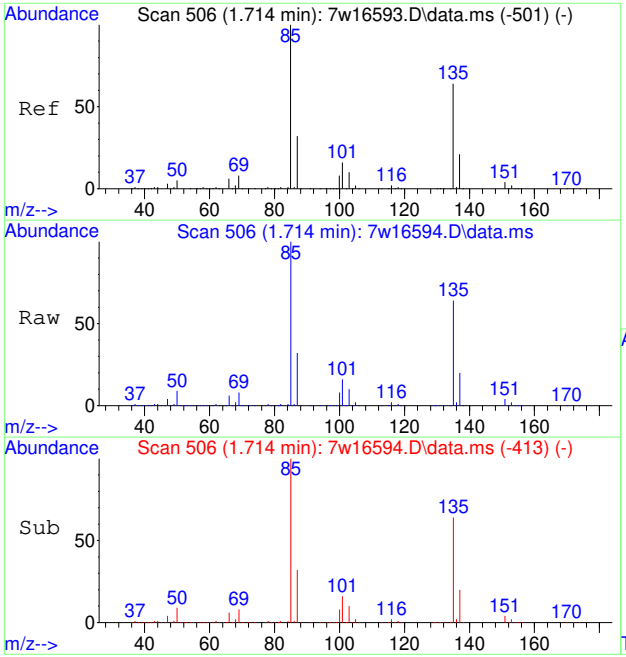


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 59.89 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 1374618

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

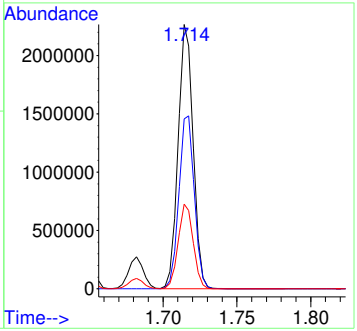


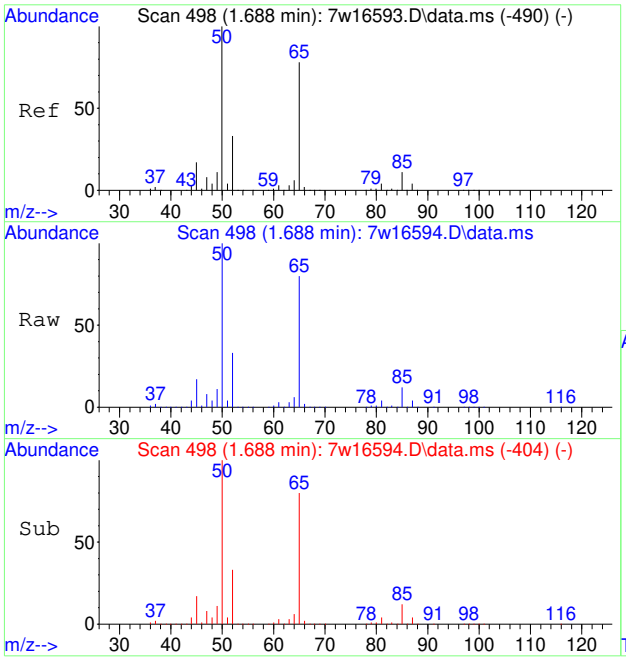


#9
FREON 114
Concen: 61.25 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1619416

Ion	Ratio	Lower	Upper
85	100		
135	67.3	46.1	85.7
87	32.1	22.6	42.0

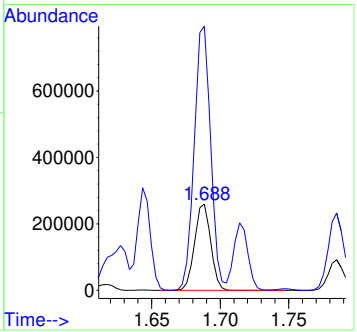


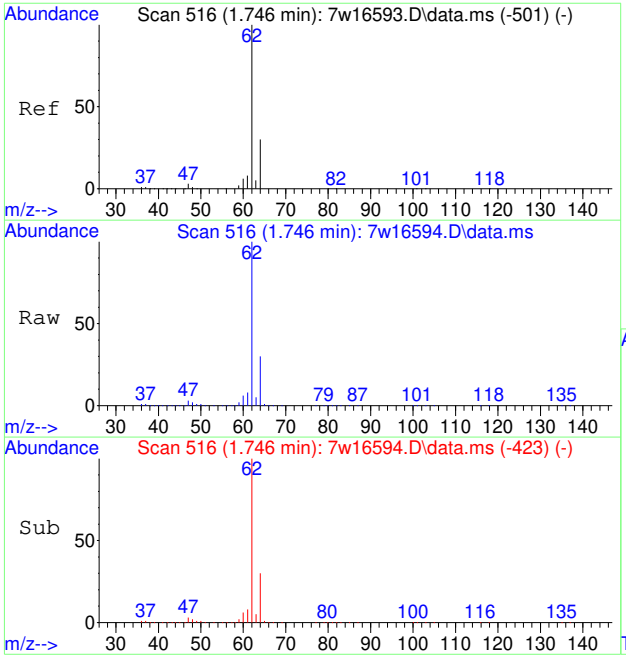


#10
CHLOROMETHANE
Concen: 57.28 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 212421

Ion	Ratio	Lower	Upper
52	100		
50	318.6	225.6	419.0

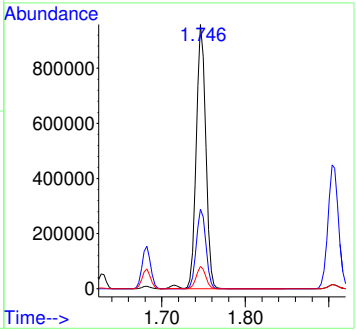


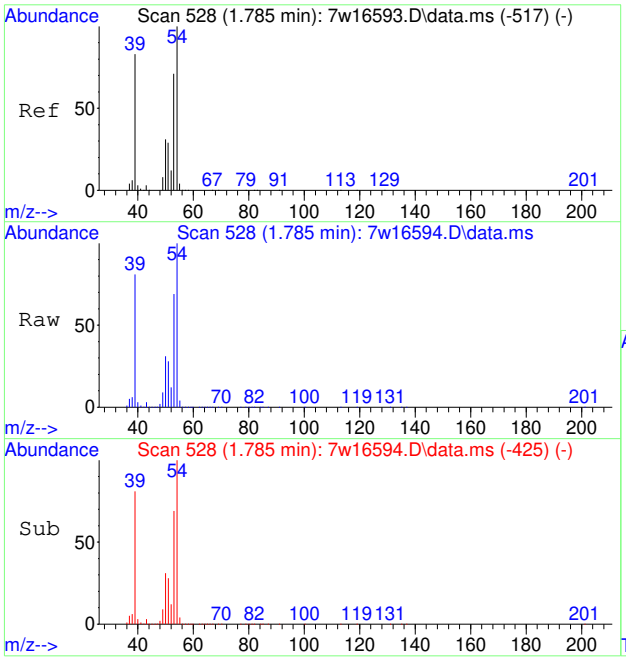


#11
VINYL CHLORIDE
Concen: 58.43 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 763152

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.5	5.7	10.5

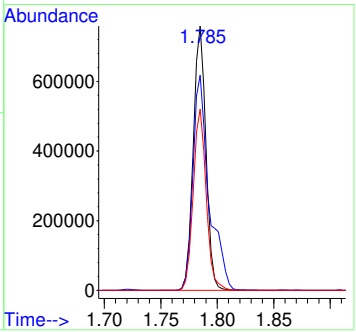


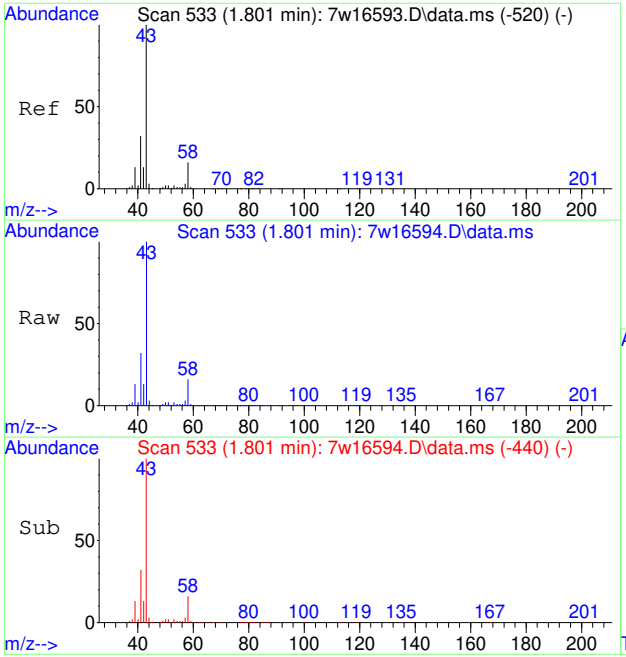


#12
1,3-BUTADIENE
Concen: 56.79 PPBV
RT: 1.785 min Scan# 528
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 54 Resp: 588014

Ion	Ratio	Lower	Upper
54	100		
39	103.8	78.4	138.4
53	70.6	40.9	100.9

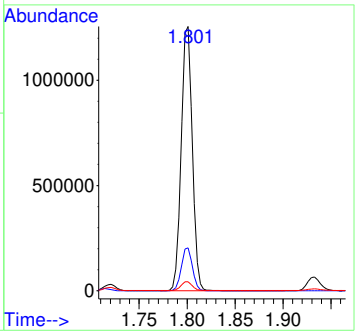


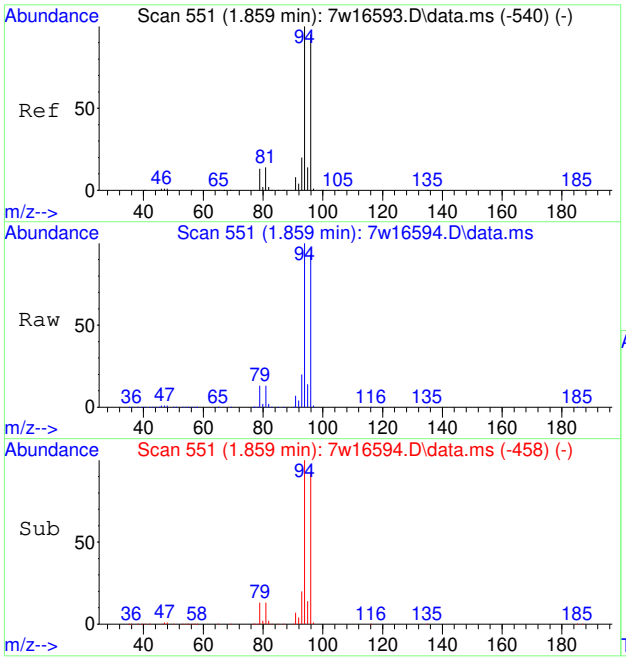


#13
N-BUTANE
Concen: 57.39 PPBV
RT: 1.801 min Scan# 533
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1009195

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.5	2.6	4.8

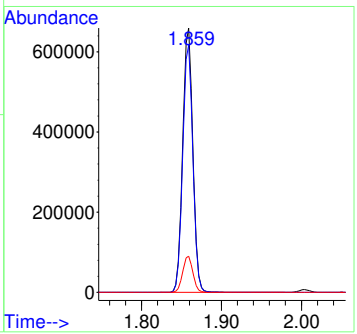


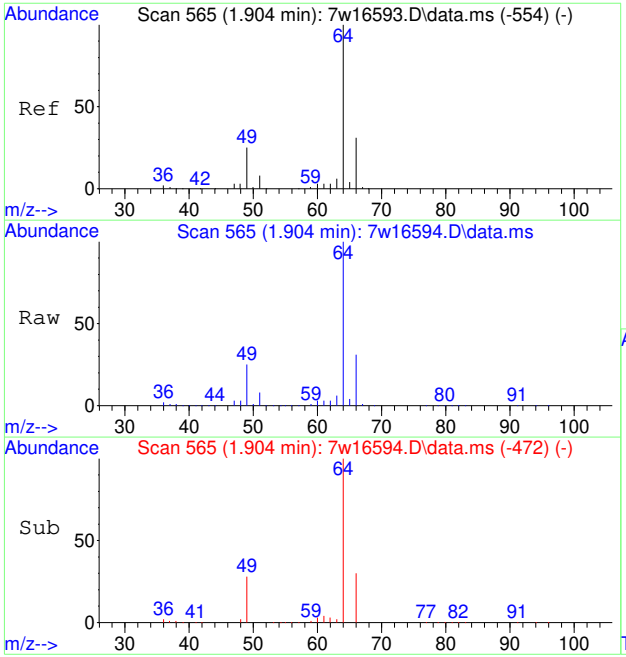


#14
BROMOMETHANE
Concen: 57.25 PPBV
RT: 1.859 min Scan# 551
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 94 Resp: 580953

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.8	9.9	18.3

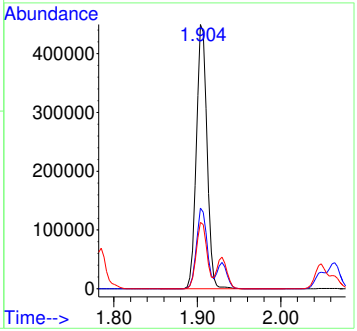


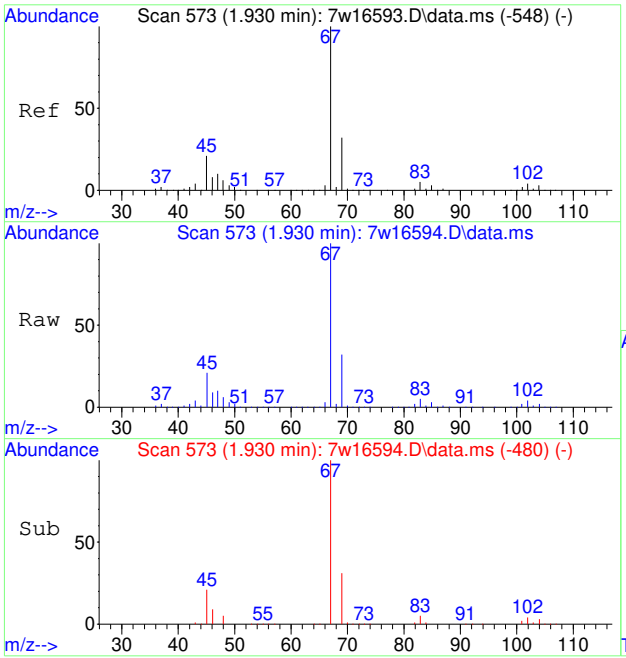


#15
CHLOROETHANE
Concen: 55.81 PPBV
RT: 1.904 min Scan# 565
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 64 Resp: 396609

Ion	Ratio	Lower	Upper
64	100		
66	40.0	21.5	39.9#
49	26.0	19.0	35.4

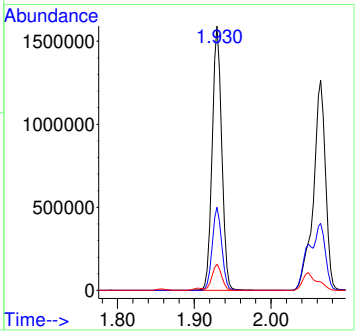


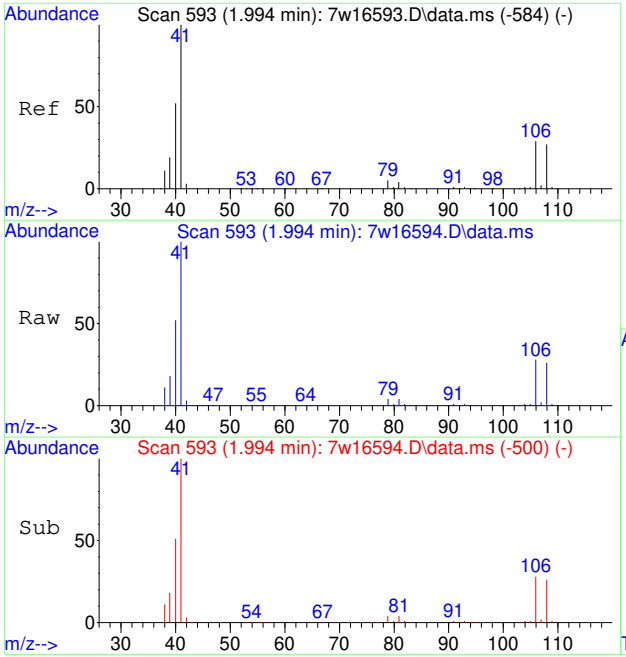


#16
DICHLOROFLUOROMETHANE
Concen: 56.11 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 1380281

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

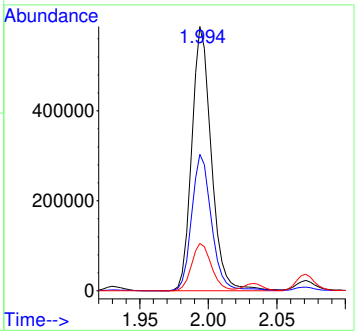


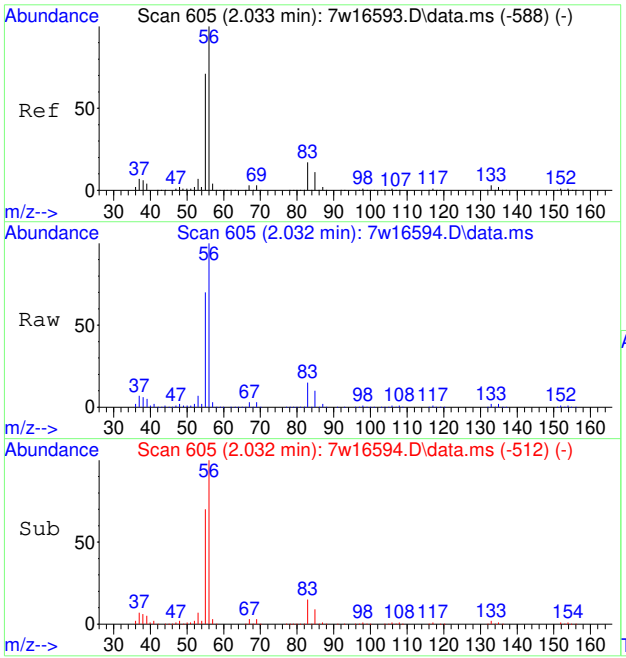


#17
ACETONITRILE
Concen: 47.00 PPBV
RT: 1.994 min Scan# 593
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 581922

Ion	Ratio	Lower	Upper
41	100		
40	52.3	36.7	68.1
39	18.0	13.1	24.3

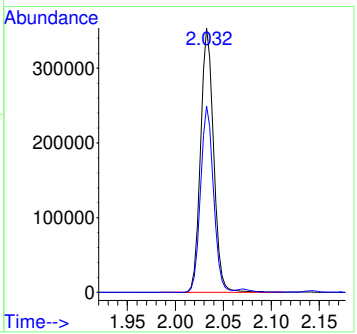


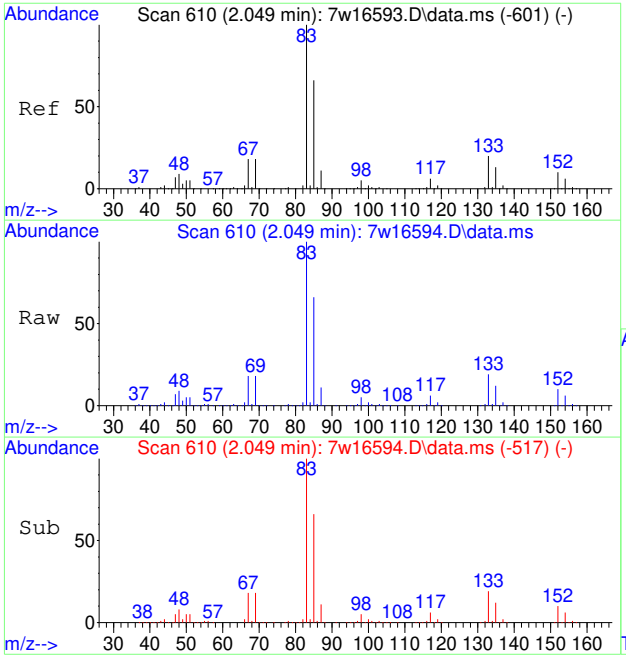


#18
ACROLEIN
Concen: 57.43 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 56 Resp: 334897

Ion	Ratio	Lower	Upper
56	100		
55	69.9	48.9	90.7

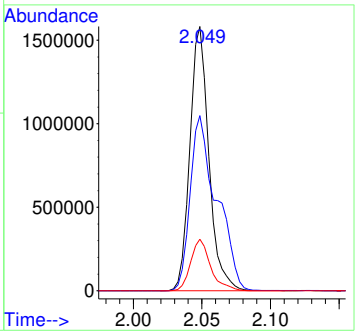


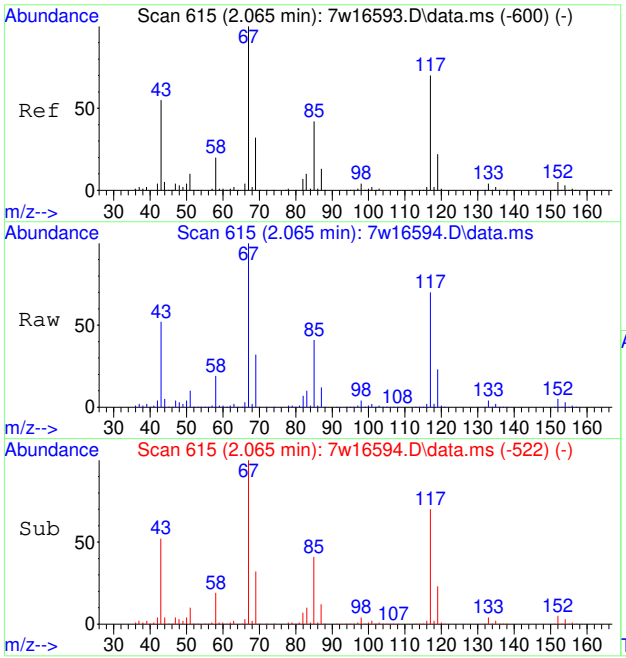


#19
FREON 123
Concen: 61.54 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1521669

Ion	Ratio	Lower	Upper
83	100		
85	92.7	64.9	120.5
133	20.6	14.7	27.3

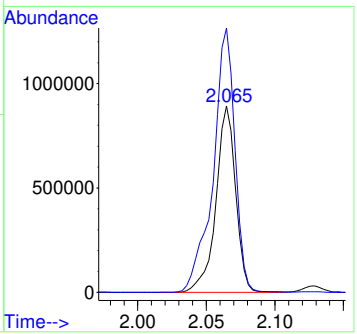


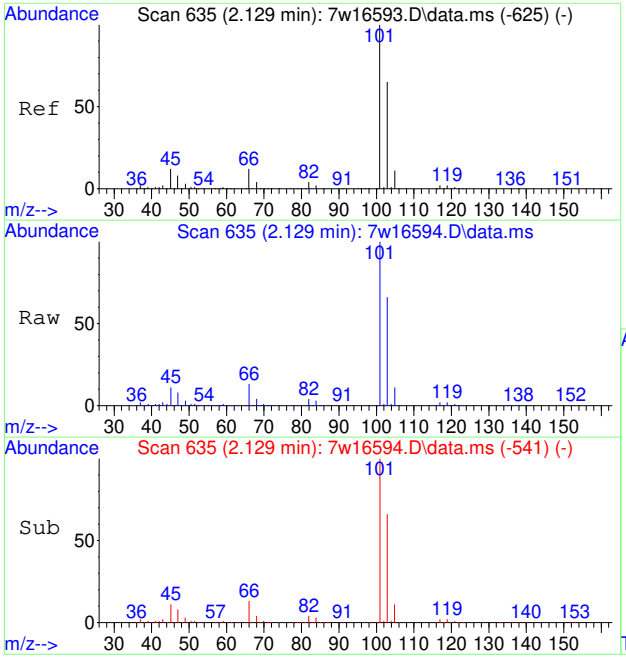


#20
FREON 123A
Concen: 60.73 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 890775

Ion	Ratio	Lower	Upper
117	100		
67	157.1	111.3	206.7

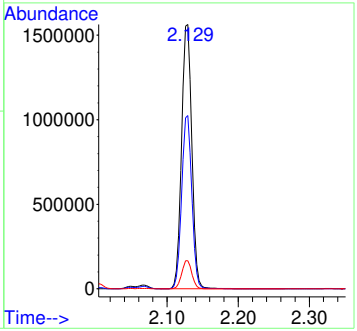


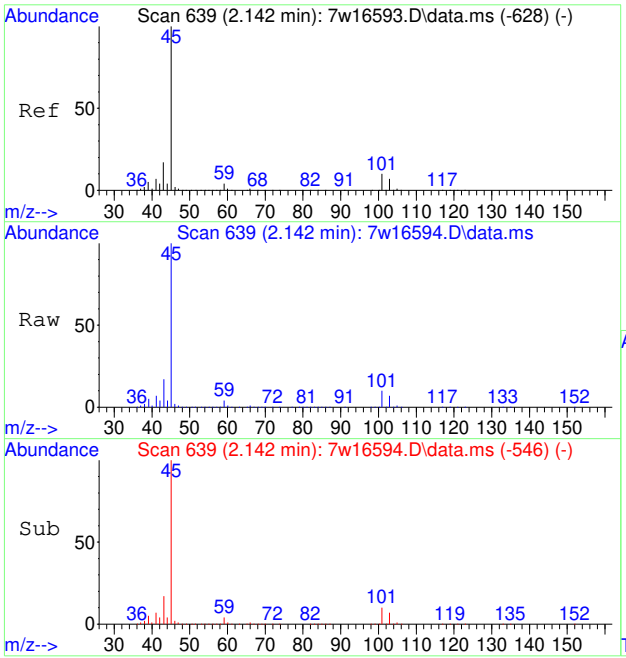


#21
TRICHLOROFLUOROMETHANE
Concen: 55.76 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:101 Resp: 1563139

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.6	7.3	13.5

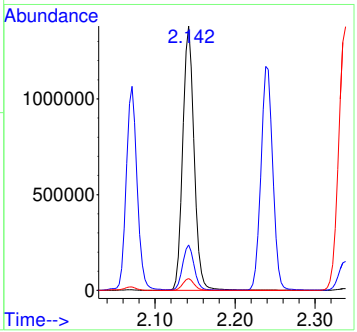


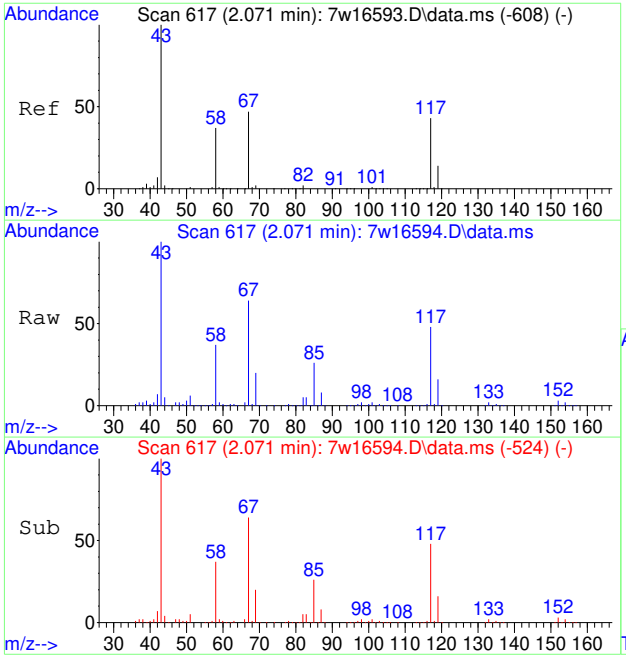


#22
ISOPROPYL ALCOHOL
Concen: 57.05 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 1360413

Ion	Ratio	Lower	Upper
45	100		
43	17.4	12.5	23.3
59	4.5	3.1	5.7

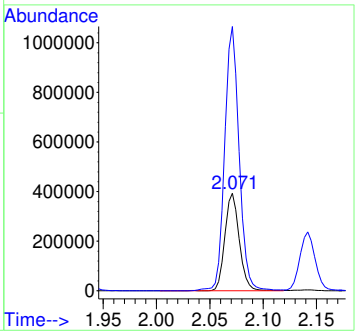


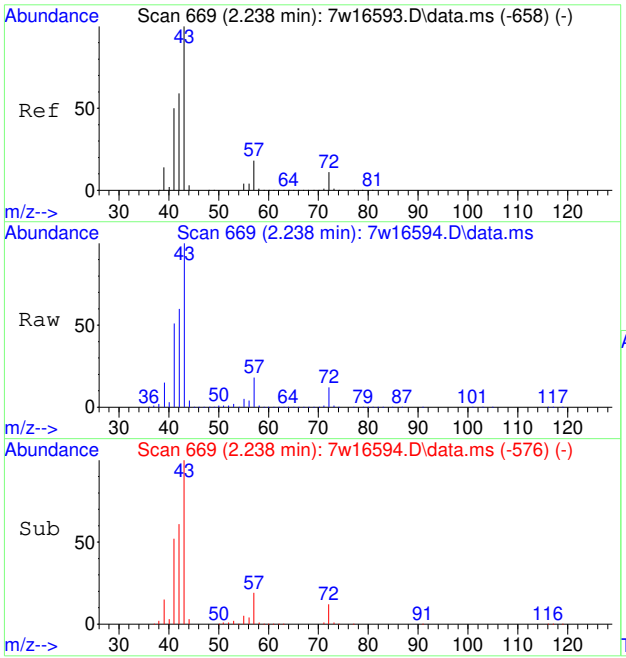


#23
ACETONE
Concen: 56.95 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 370968

Ion	Ratio	Lower	Upper
58	100		
43	271.3	198.6	368.8

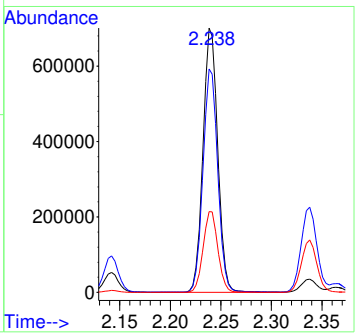


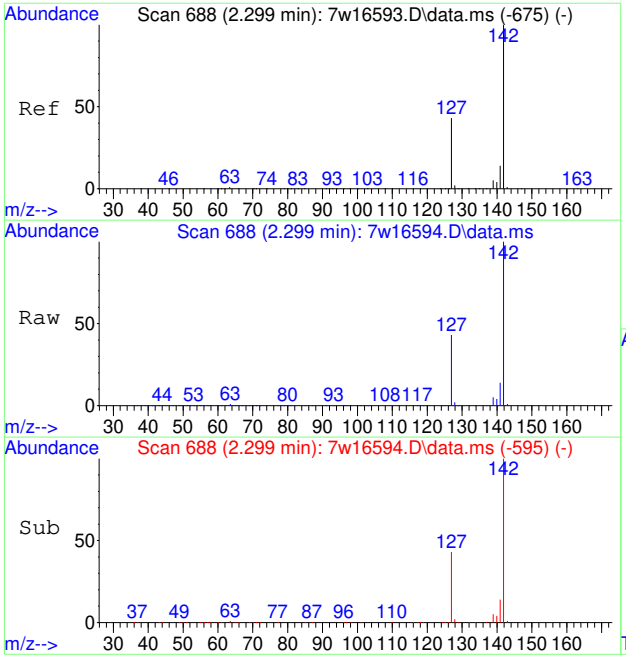


#24
PENTANE
Concen: 54.82 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 42 Resp: 709359

Ion	Ratio	Lower	Upper
42	100		
41	84.8	59.8	111.0
57	30.8	21.1	39.1

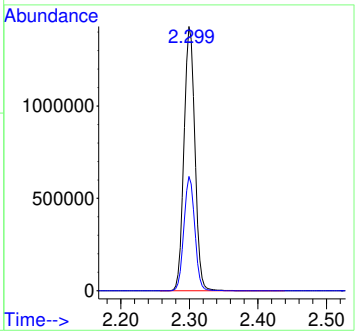


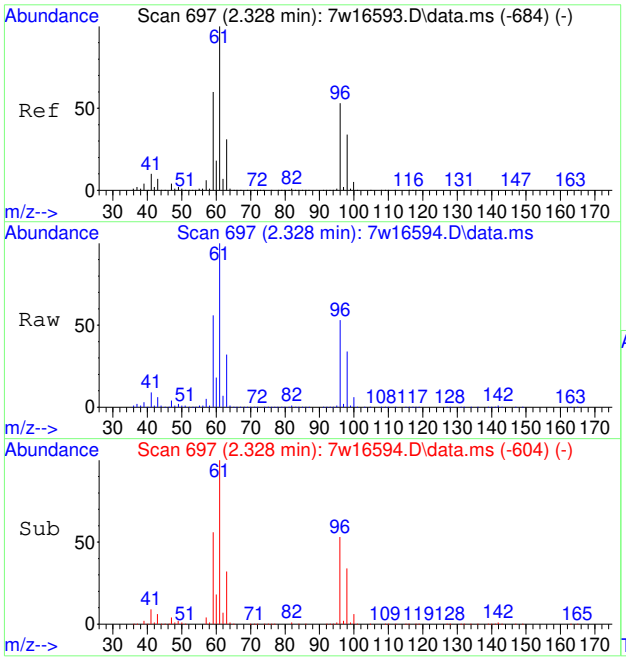


#25
IODOMETHANE
Concen: 61.48 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:142 Resp: 1579517

Ion	Ratio	Lower	Upper
142	100		
127	43.0	30.6	56.8

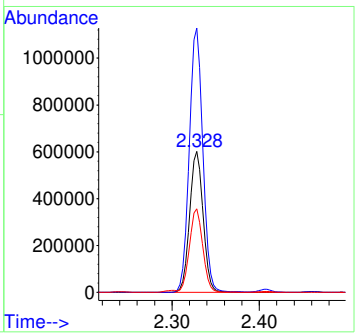


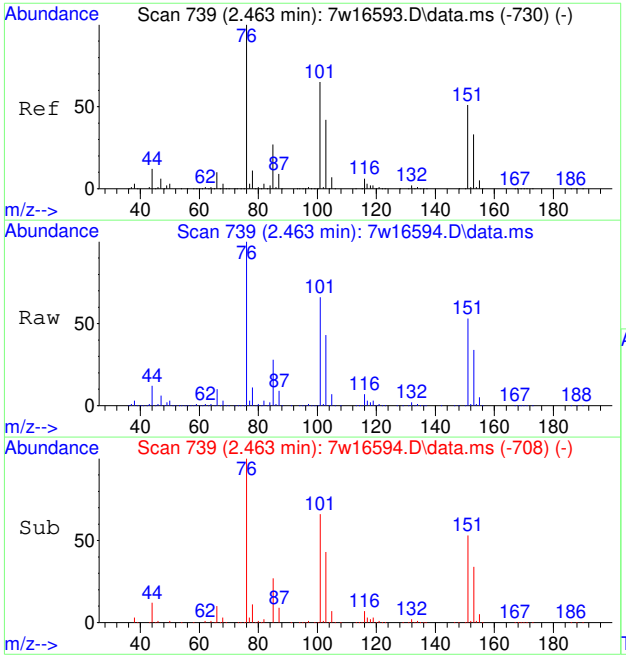


#26
1,1-DICHLOROETHYLENE
Concen: 60.57 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 645693

Ion	Ratio	Lower	Upper
96	100		
61	188.2	138.3	256.8
63	60.1	44.2	82.0

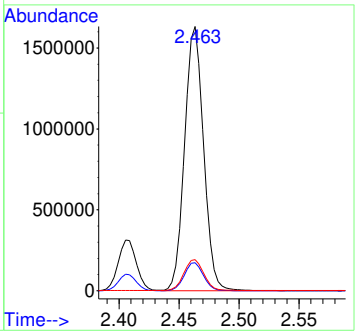


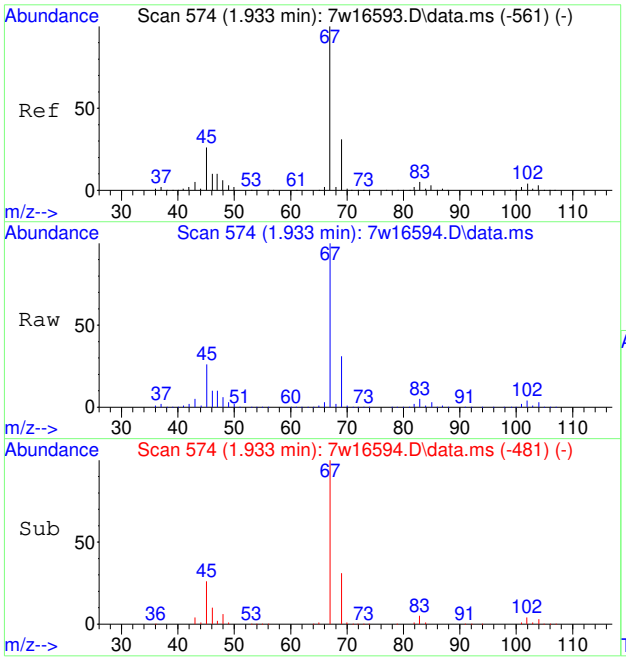


#27
CARBON DISULFIDE
Concen: 59.49 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1800975

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.2	10.2	19.0

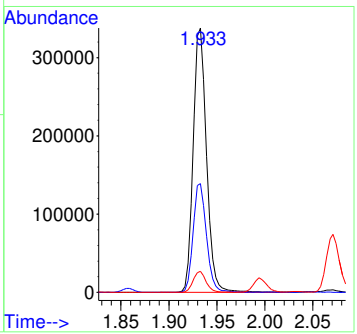


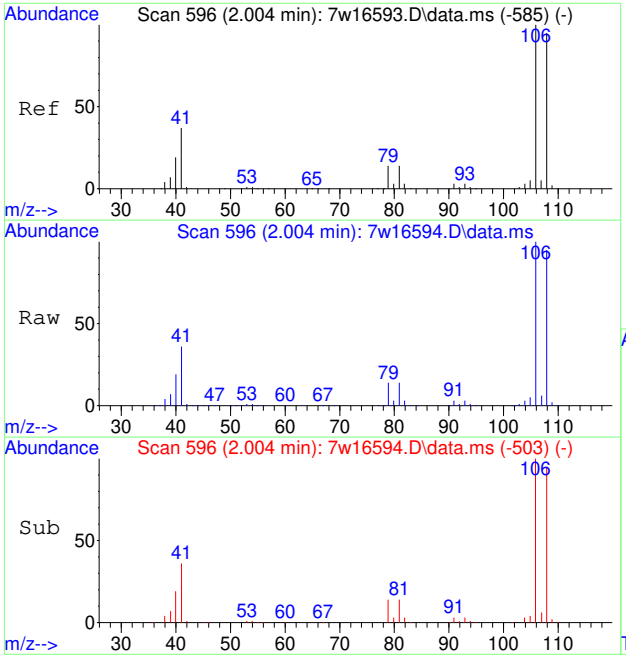


#28
ETHANOL
Concen: 51.26 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 326453

Ion	Ratio	Lower	Upper
45	100		
46	41.2	29.0	53.9
42	7.7	5.7	10.5

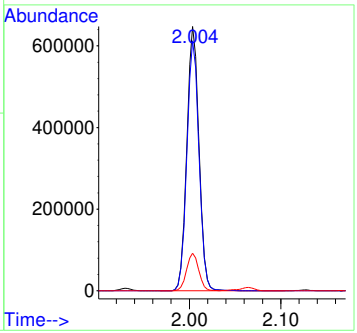


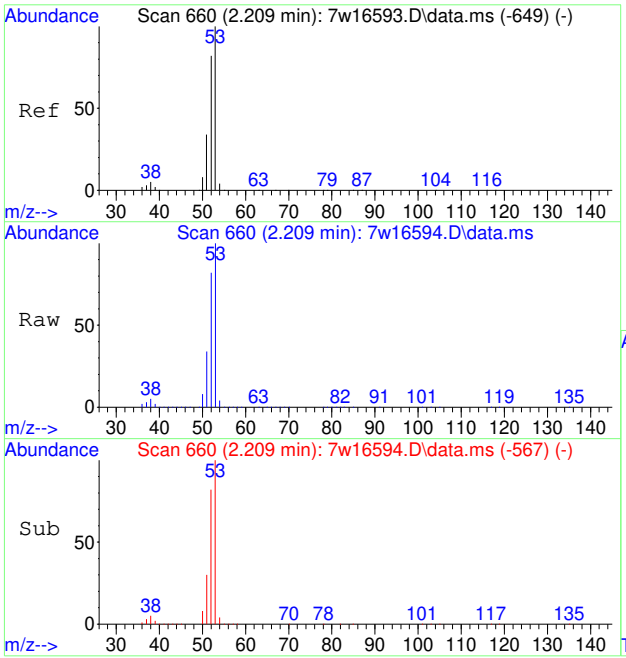


#29
BROMOETHENE
Concen: 58.65 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:106 Resp: 595538

Ion	Ratio	Lower	Upper
106	100		
108	94.5	66.1	122.7
81	14.2	10.6	19.8

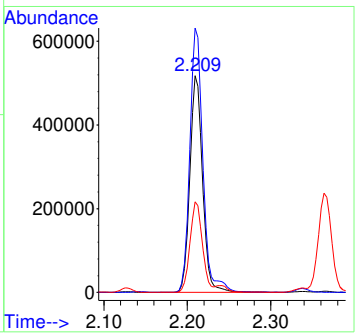


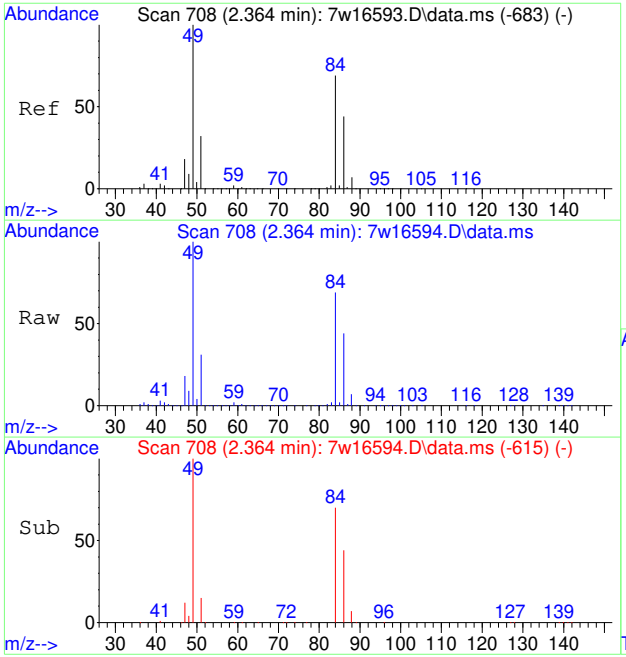


#30
ACRYLONITRILE
Concen: 60.13 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 549118

Ion	Ratio	Lower	Upper
52	100		
53	125.6	88.2	163.8
51	44.2	31.3	58.1

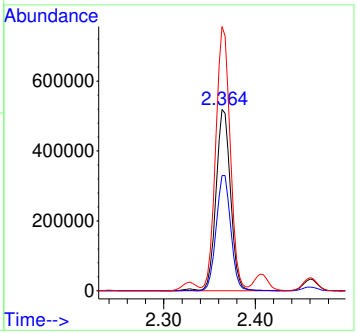


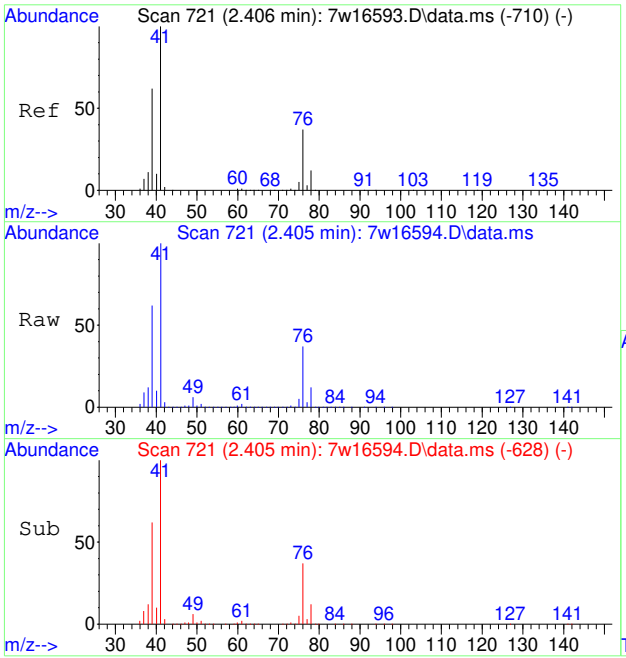


#31
METHYLENE CHLORIDE
Concen: 54.71 PPBV
RT: 2.364 min Scan# 708
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 575223

Ion	Ratio	Lower	Upper
84	100		
86	63.8	44.3	82.3
49	144.7	109.5	203.3

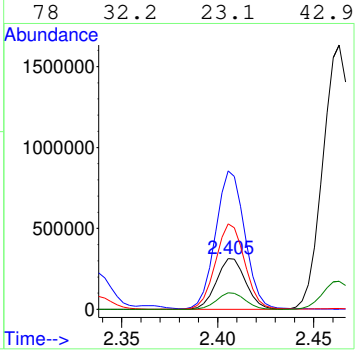


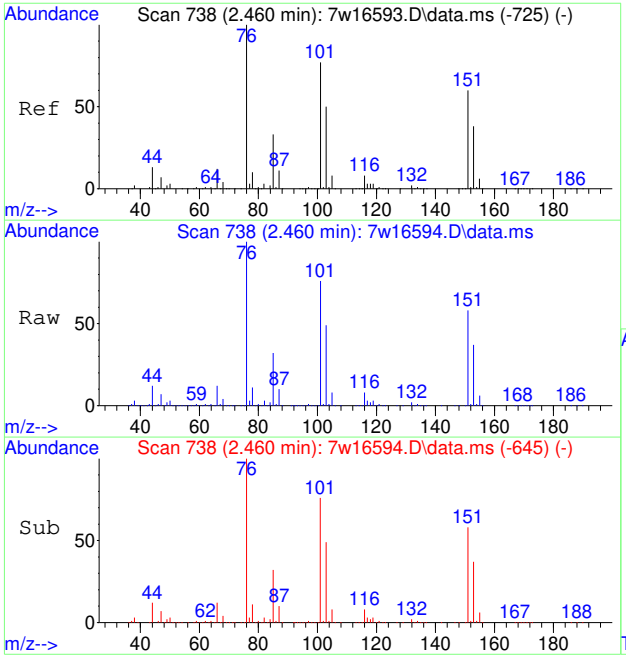


#32
3-CHLOROPROPENE
Concen: 58.47 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 332976

Ion	Ratio	Lower	Upper
76	100		
41	273.7	202.6	376.2
39	168.8	125.8	233.6
78	32.2	23.1	42.9

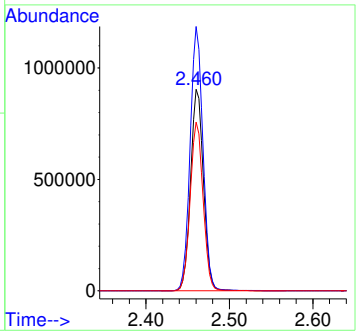


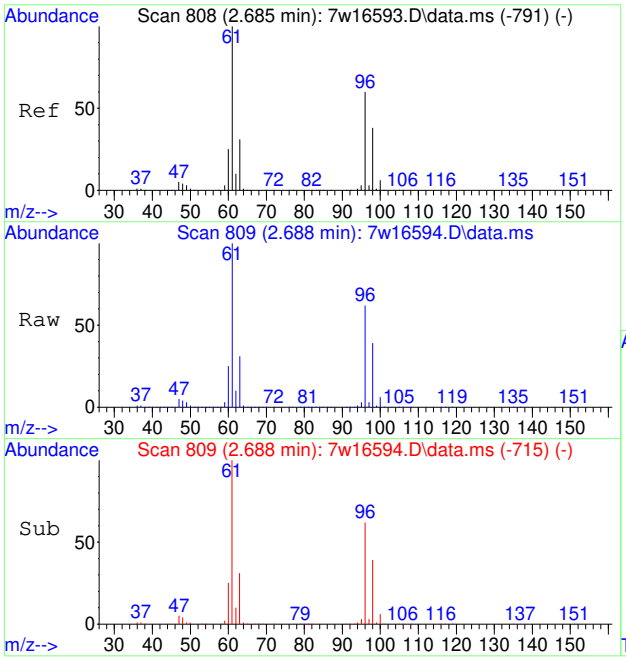


#33
FREON 113
Concen: 60.76 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:151 Resp: 974461

Ion	Ratio	Lower	Upper
151	100		
101	130.5	93.1	172.9
103	84.0	60.1	111.5

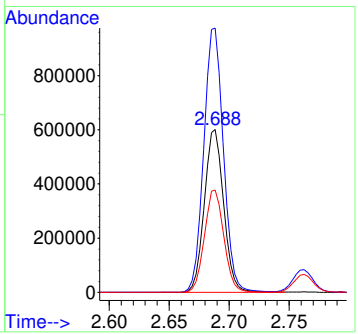


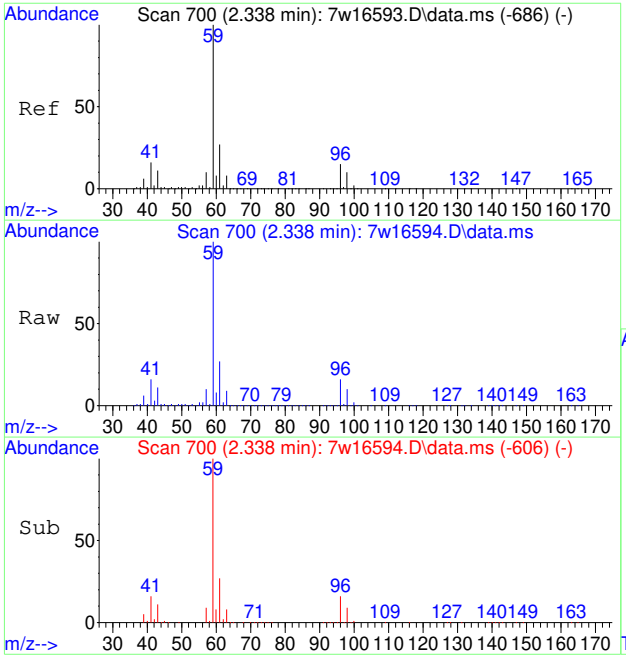


#34
TRANS-1,2-DICHLOROETHENE
Concen: 57.48 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 674414

Ion	Ratio	Lower	Upper
96	100		
61	164.4	119.6	222.0
98	63.1	44.9	83.5

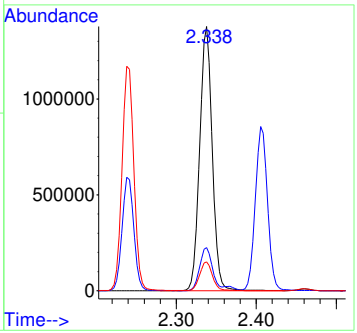


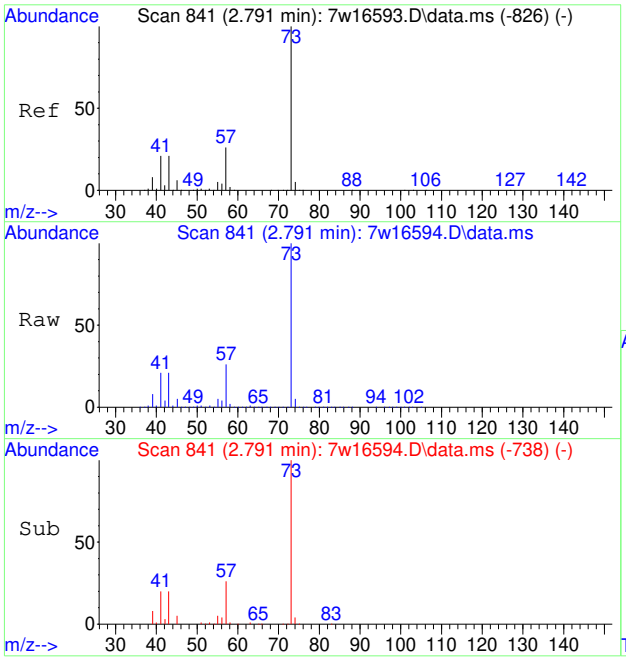


#35
TERTIARY BUTYL ALCOHOL
Concen: 50.59 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 1507671

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.0	8.0	14.8

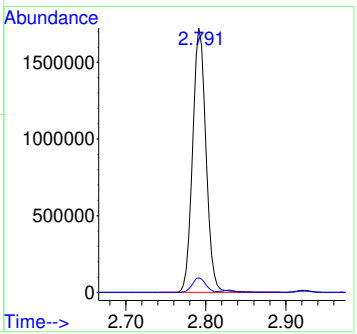


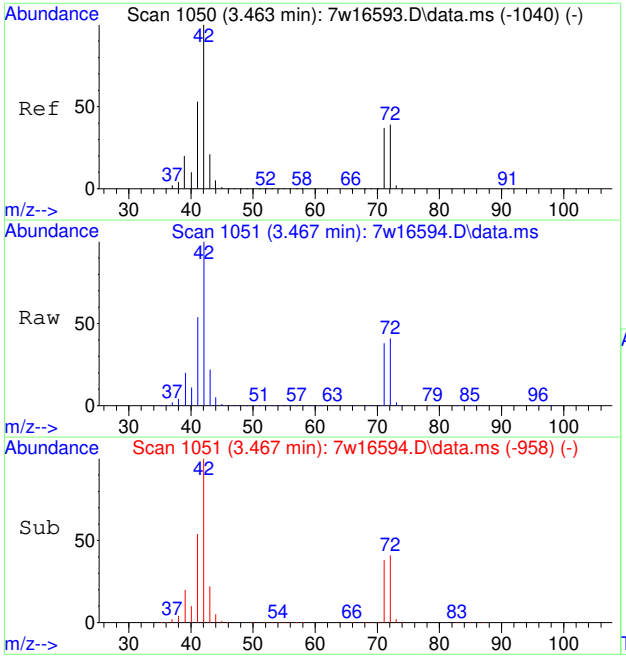


#36
METHYL TERTIARY BUTYL ETHER
Concen: 60.14 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 73 Resp: 2004125

Ion	Ratio	Lower	Upper
73	100		
45	5.5	4.1	7.5

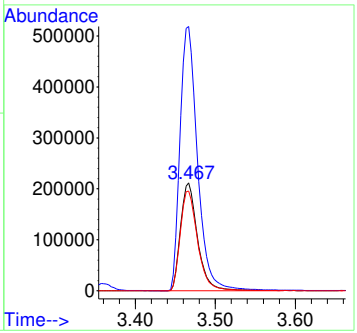


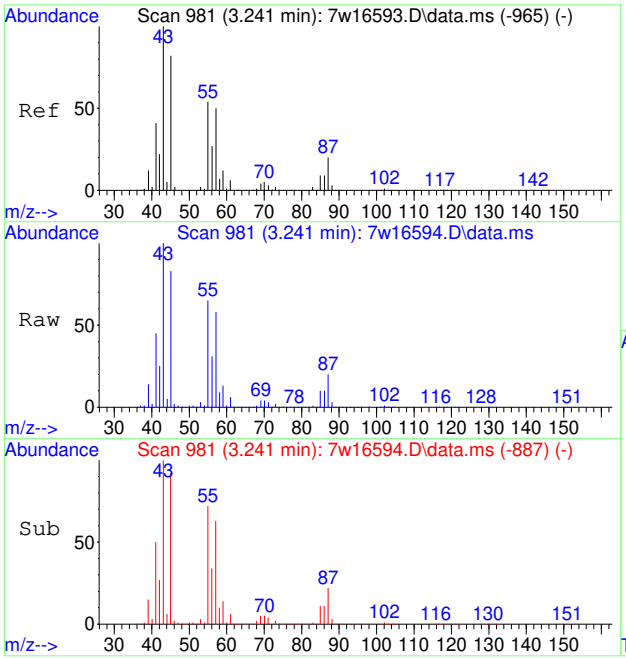


#37
TETRAHYDROFURAN
Concen: 58.71 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 315623

Ion	Ratio	Lower	Upper
72	100		
42	250.8	180.3	334.8
71	94.1	65.8	122.2

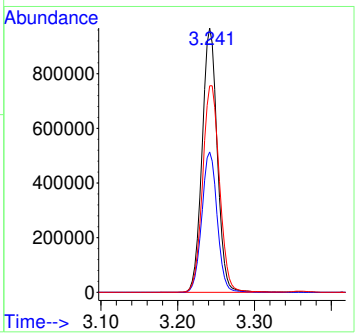


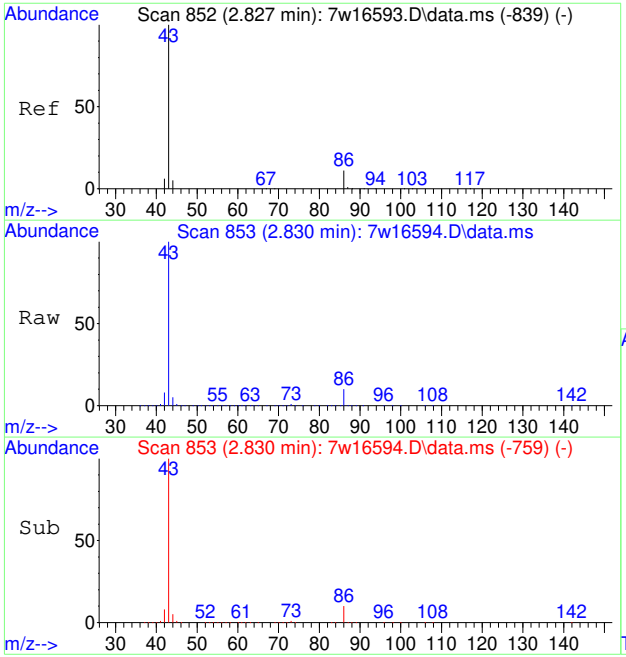


#38
HEXANE
Concen: 59.12 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1329253

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	86.9	65.9	122.5

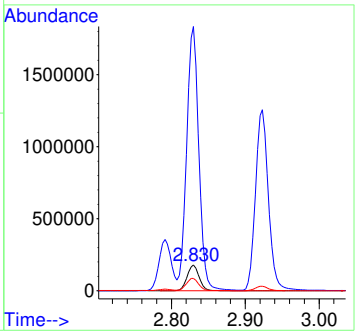


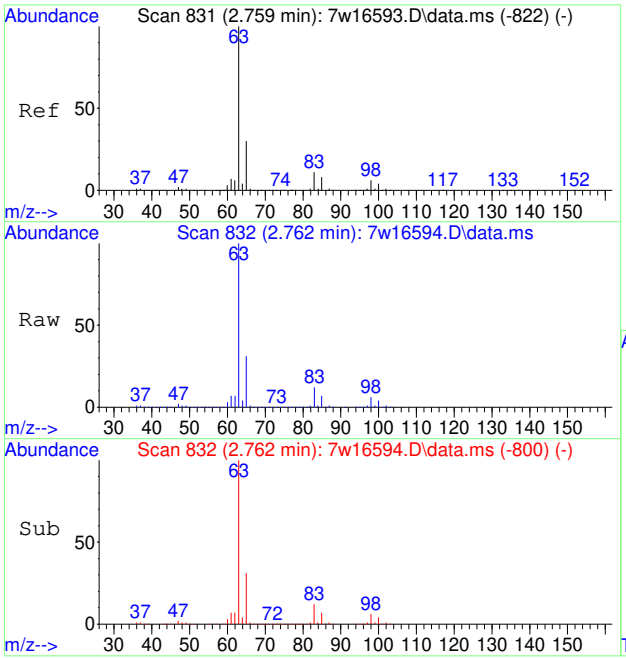


#39
VINYL ACETATE
Concen: 64.15 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 86 Resp: 203564

Ion	Ratio	Lower	Upper
86	100		
43	1037.6	758.7	1408.9
44	49.0	39.5	73.3

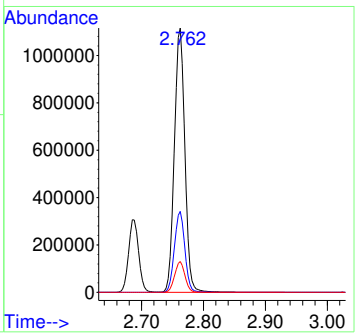


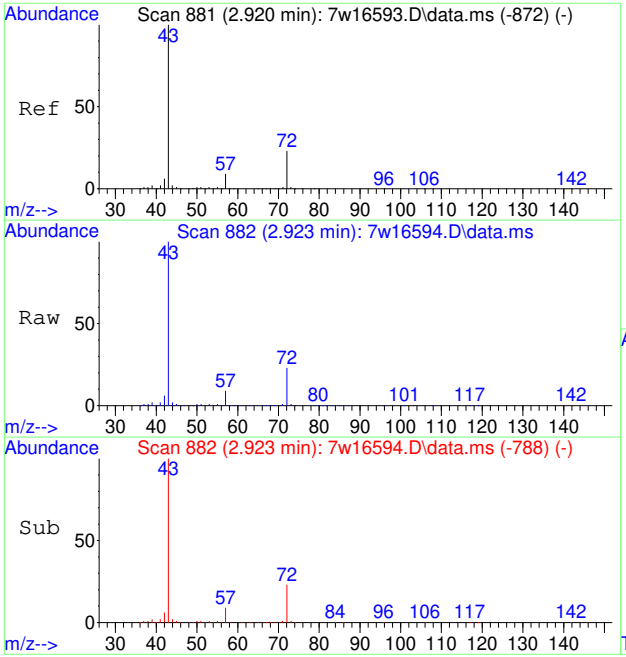


#40
1,1-DICHLOROETHANE
Concen: 57.90 PPBV
RT: 2.762 min Scan# 832
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 1312399

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.4	39.8
83	11.6	8.3	15.5

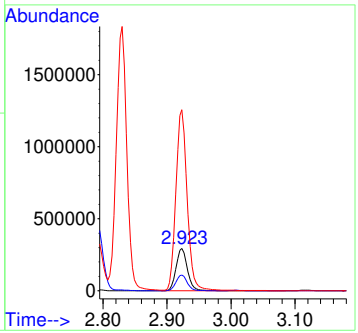


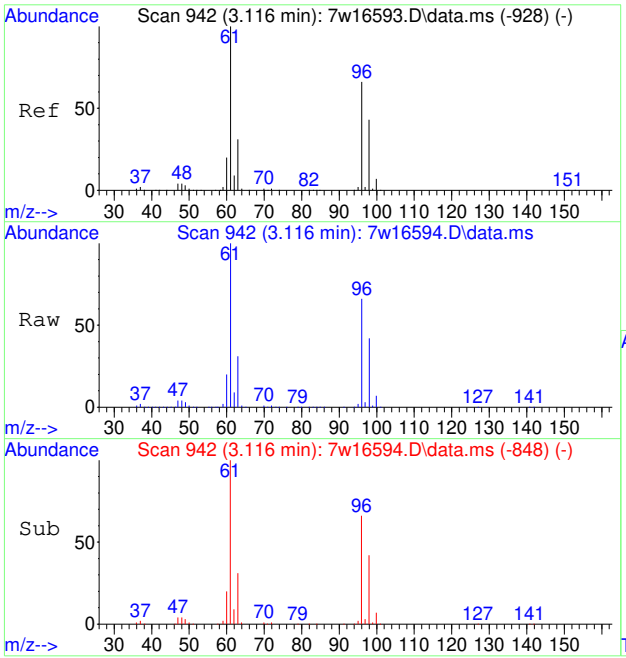


#41
METHYL ETHYL KETONE
Concen: 58.79 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 360548

Ion	Ratio	Lower	Upper
72	100		
57	37.4	26.9	49.9
43	429.0	309.4	574.6

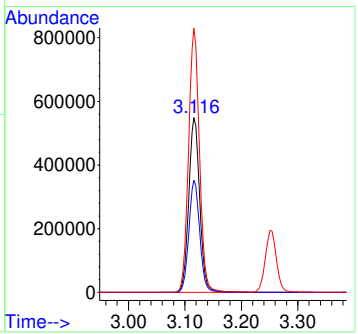


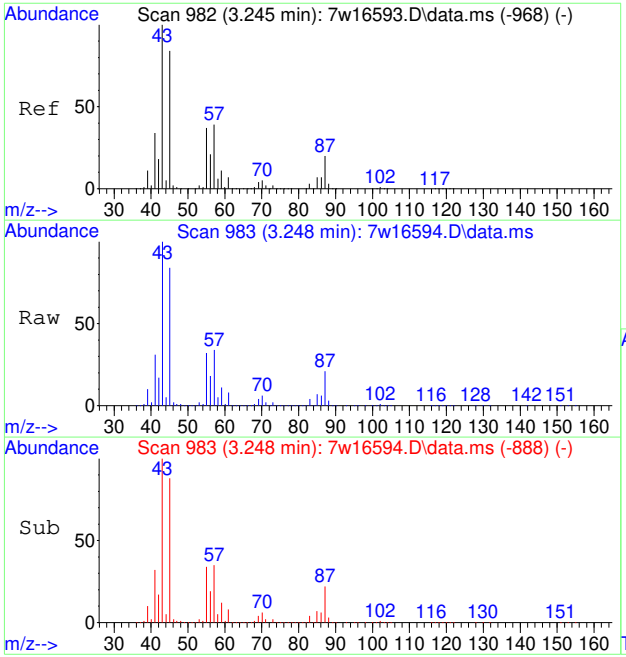


#42
CIS-1,2-DICHLOROETHENE
Concen: 60.78 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 737182

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	150.4	107.3	199.3

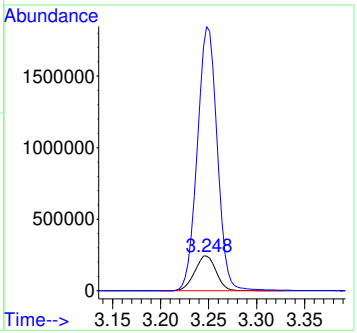


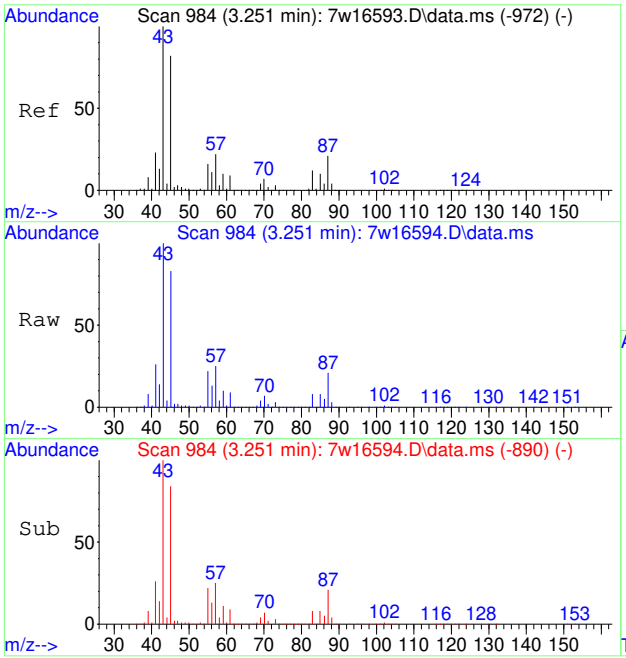


#43
DIISOPROPYL ETHER
Concen: 59.86 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 381162

Ion	Ratio	Lower	Upper
59	100		
45	704.4	517.6	961.2

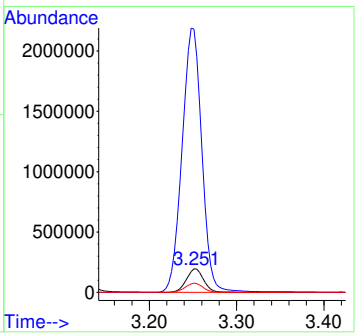


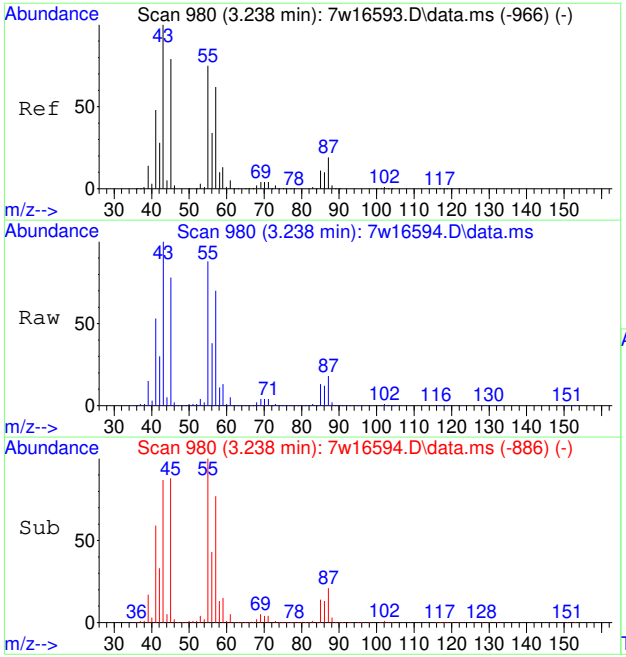


#44
ETHYL ACETATE
Concen: 63.06 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 61 Resp: 270078

Ion	Ratio	Lower	Upper
61	100		
43	1278.6	955.4	1774.4
88	40.5	27.6	51.2

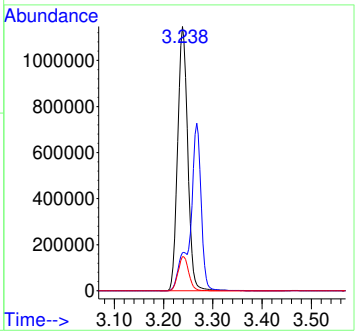


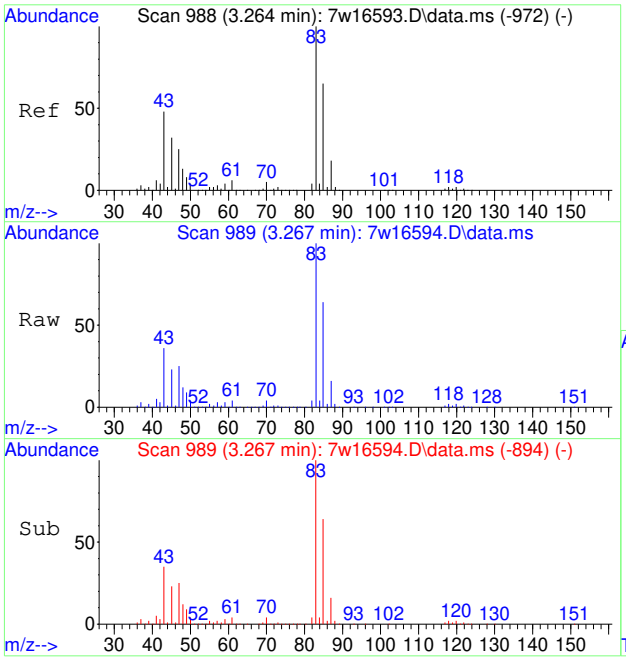


#45
METHYL ACRYLATE
Concen: 60.36 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 1639035

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

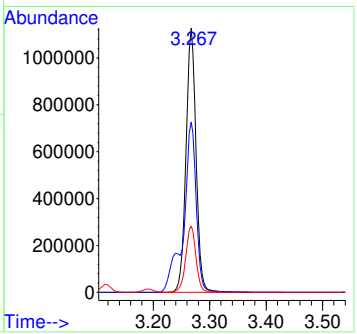


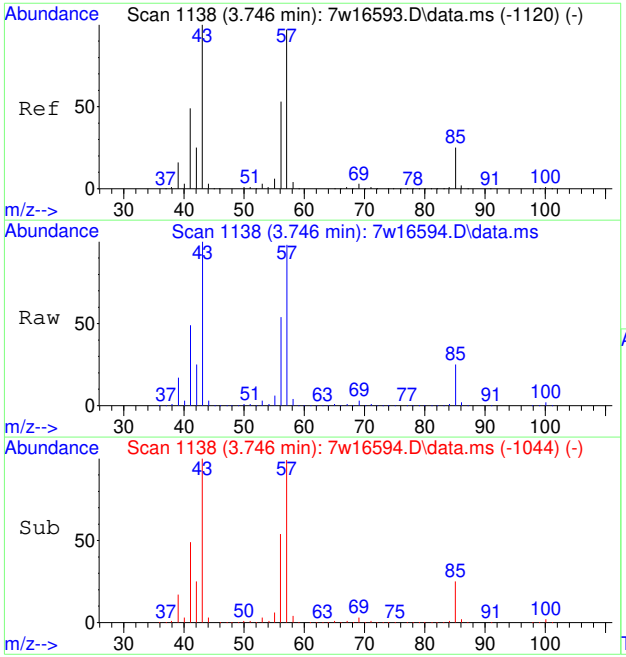


#46
CHLOROFORM
Concen: 59.52 PPBV
RT: 3.267 min Scan# 989
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1396609

Ion	Ratio	Lower	Upper
83	100		
85	81.5	56.0	104.0
47	25.8	19.0	35.4

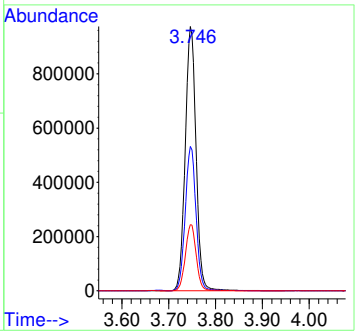


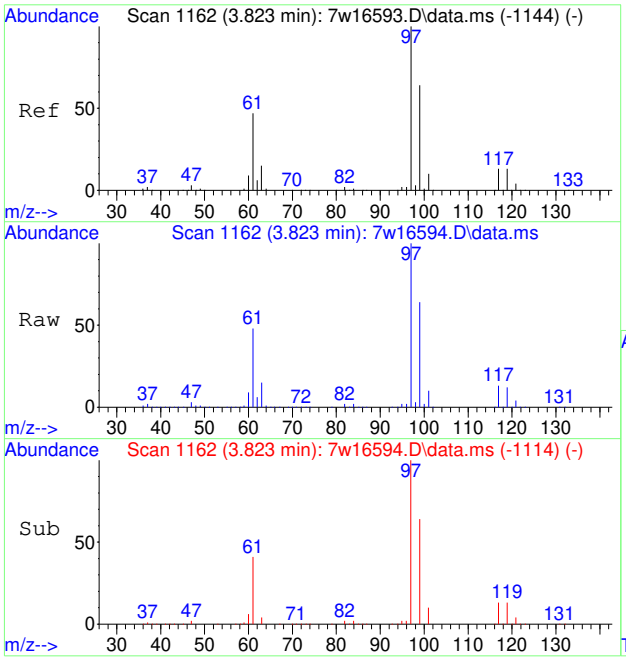


#47
2,4-DIMETHYLPENTANE
Concen: 62.29 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1562455

Ion	Ratio	Lower	Upper
57	100		
56	54.7	38.4	71.2
85	25.2	17.5	32.5

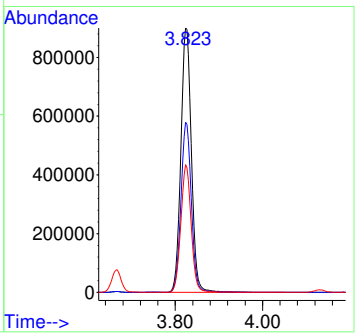


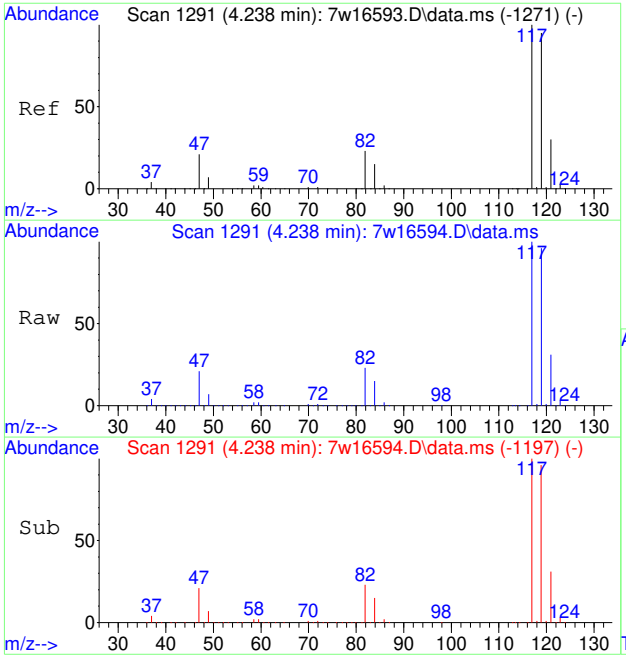


#48
1,1,1-TRICHLOROETHANE
Concen: 61.02 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 97 Resp: 1503844

Ion	Ratio	Lower	Upper
97	100		
99	63.9	45.0	83.6
61	47.7	34.7	64.5

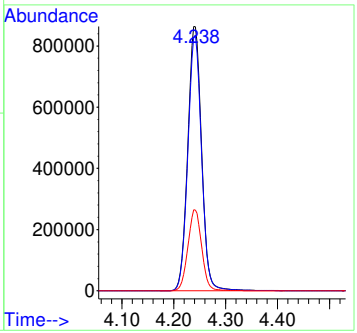


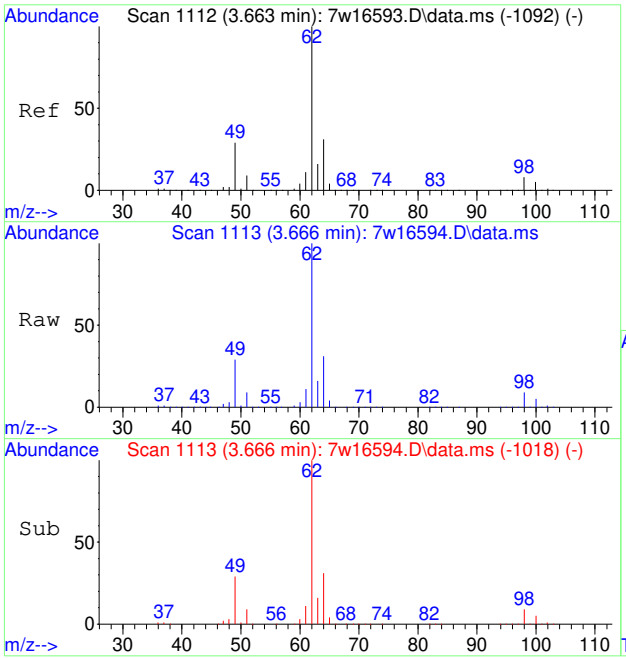


#49
CARBON TETRACHLORIDE
Concen: 62.67 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1592865

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.5	125.3
121	30.7	21.3	39.5

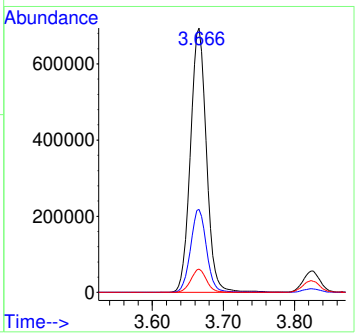


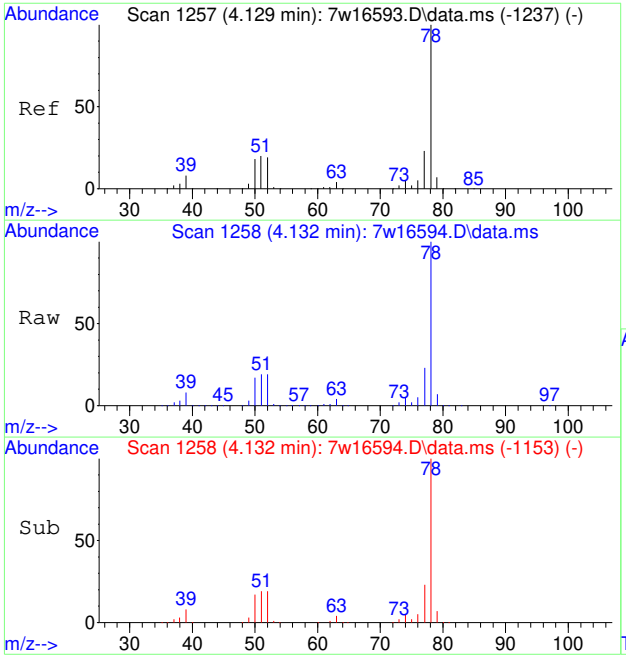


#50
1,2-DICHLOROETHANE
Concen: 59.76 PPBV
RT: 3.666 min Scan# 1113
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 1086518

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.7	5.8	10.8

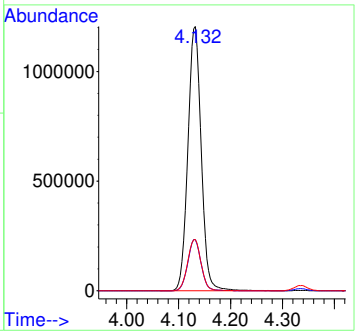


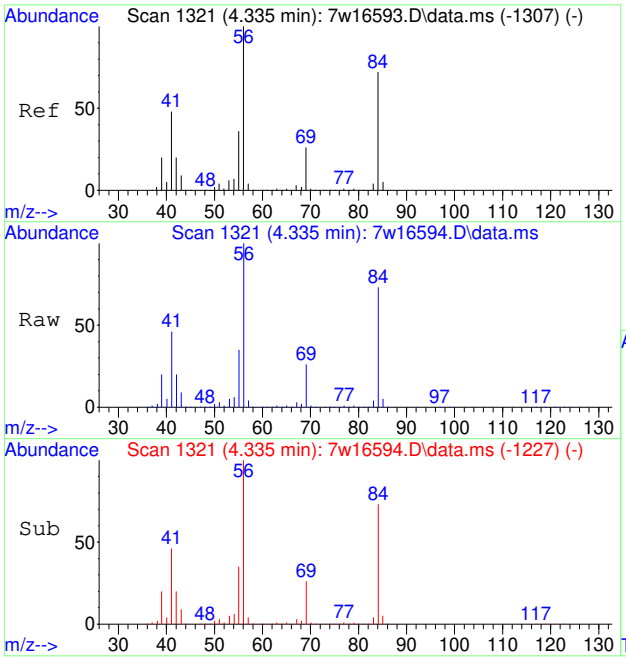


#51
BENZENE
Concen: 59.55 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 78 Resp: 2141182

Ion	Ratio	Lower	Upper
78	100		
52	19.5	0.0	49.9
51	19.7	0.0	50.6

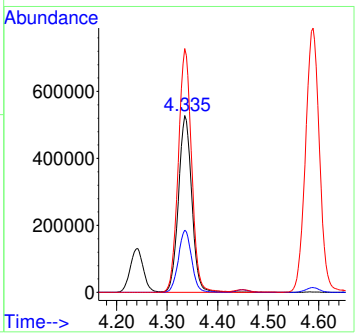


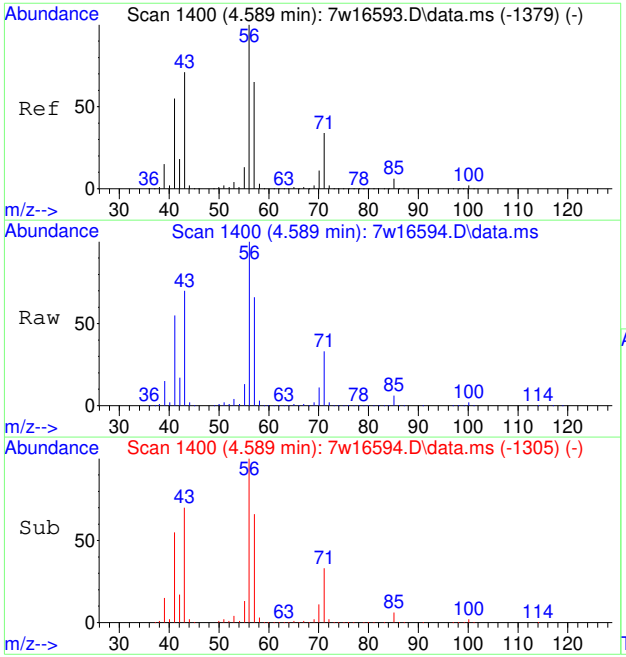


#53
CYCLOHEXANE
Concen: 62.31 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 968144

Ion	Ratio	Lower	Upper
84	100		
69	35.1	24.6	45.6
56	137.7	96.4	179.0

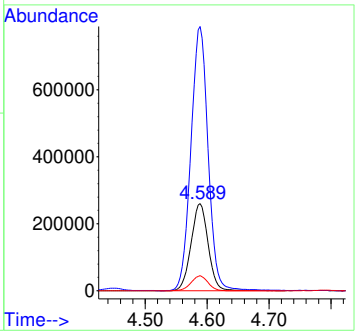


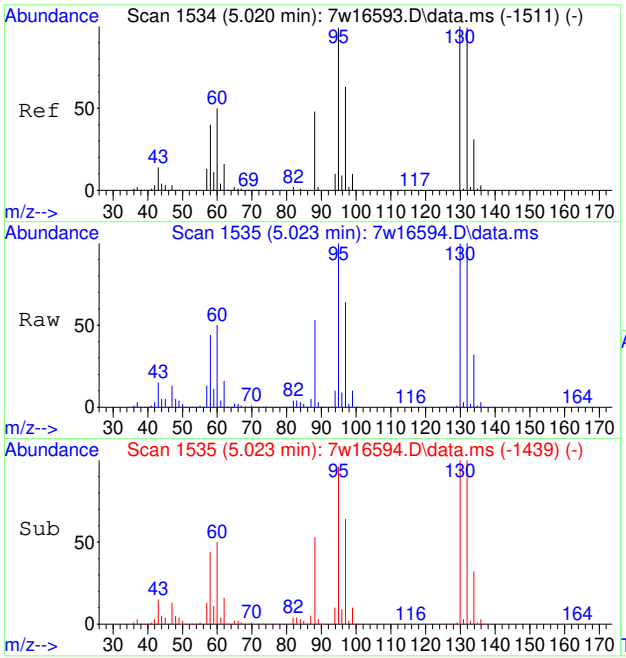


#54
2,3-DIMETHYLPENTANE
Concen: 64.89 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 71 Resp: 501690

Ion	Ratio	Lower	Upper
71	100		
56	303.6	213.2	396.0
85	17.4	12.2	22.6

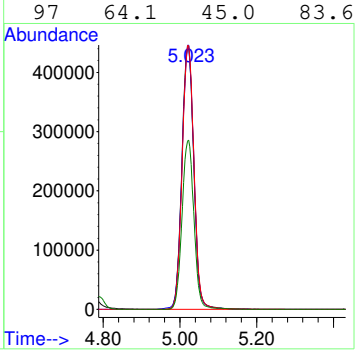


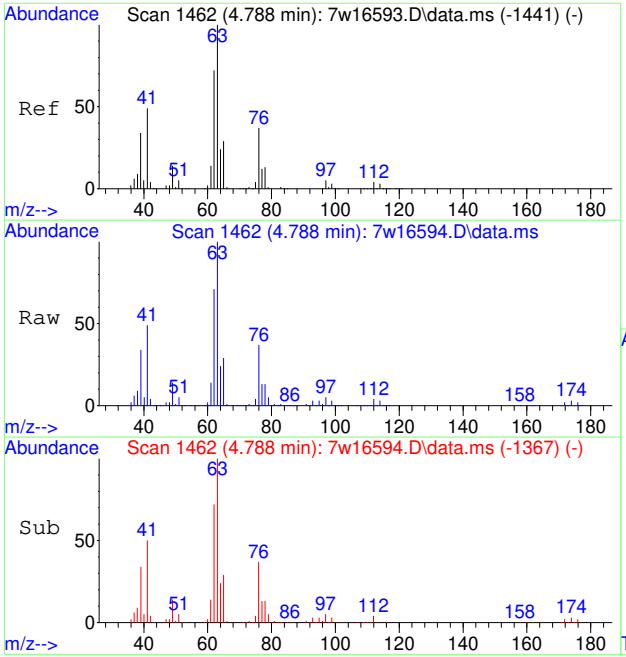


#55
TRICHLOROETHENE
Concen: 57.89 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 95 Resp: 961087

Ion	Ratio	Lower	Upper
95	100		
130	100.0	69.4	129.0
132	99.5	69.4	128.8
97	64.1	45.0	83.6

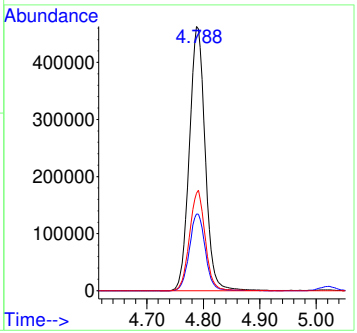


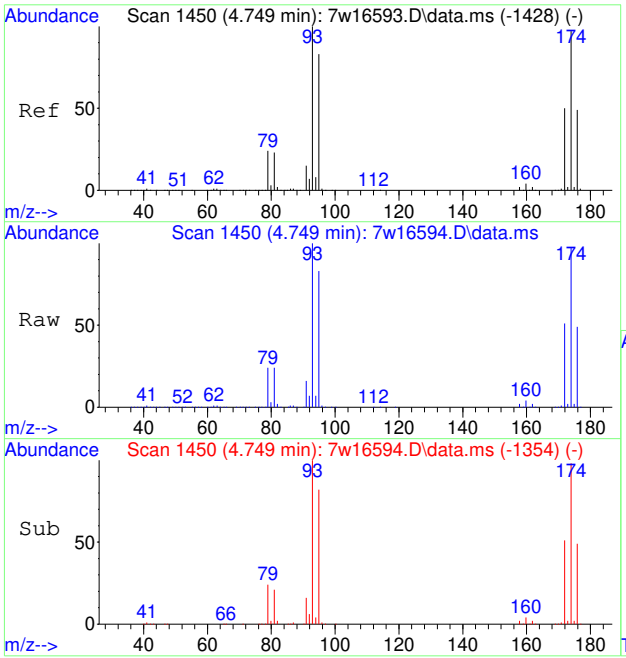


#56
1,2-DICHLOROPROPANE
Concen: 61.43 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 899764

Ion	Ratio	Lower	Upper
63	100		
65	29.5	20.5	38.1
76	37.8	27.1	50.3

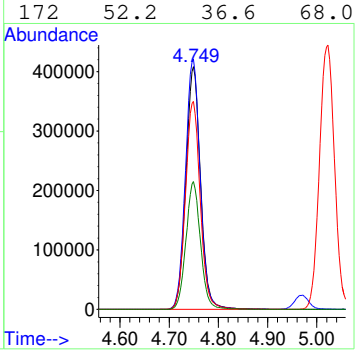


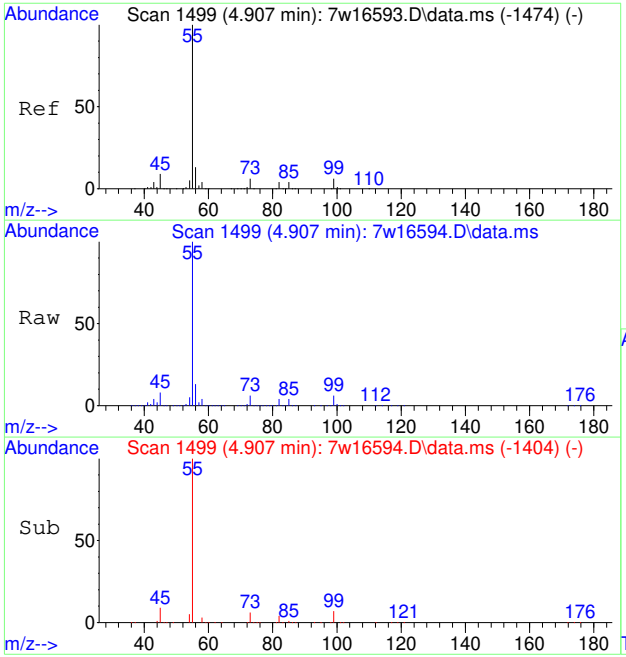


#57
DIBROMOMETHANE
Concen: 59.53 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:174 Resp: 843168

Ion	Ratio	Lower	Upper
174	100		
93	104.3	75.3	139.9
95	87.0	62.4	115.8
172	52.2	36.6	68.0

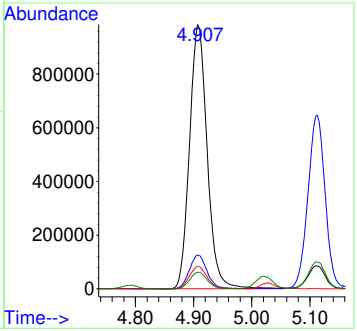


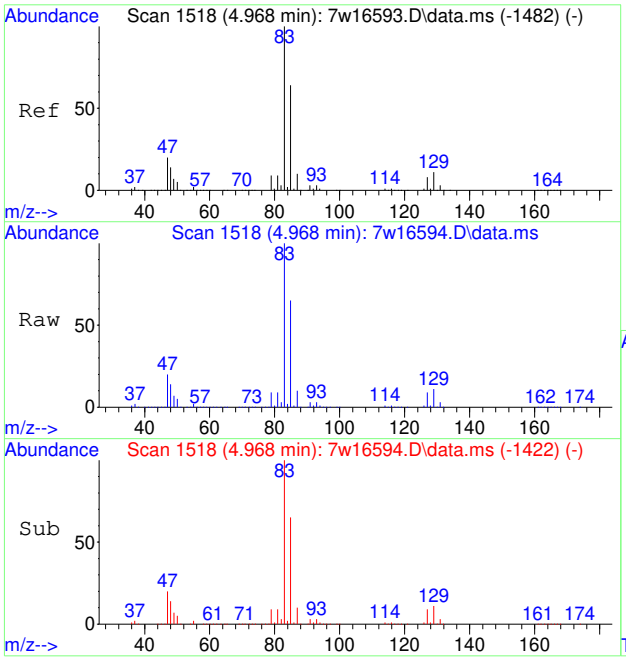


#58
ETHYL ACRYLATE
Concen: 63.61 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 2081872

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.5	6.1	11.3
99	6.2	4.3	8.1

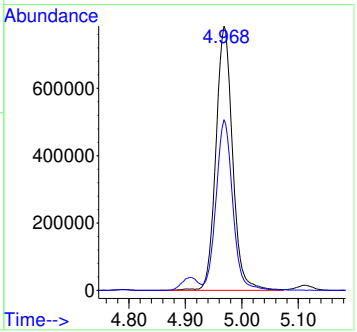


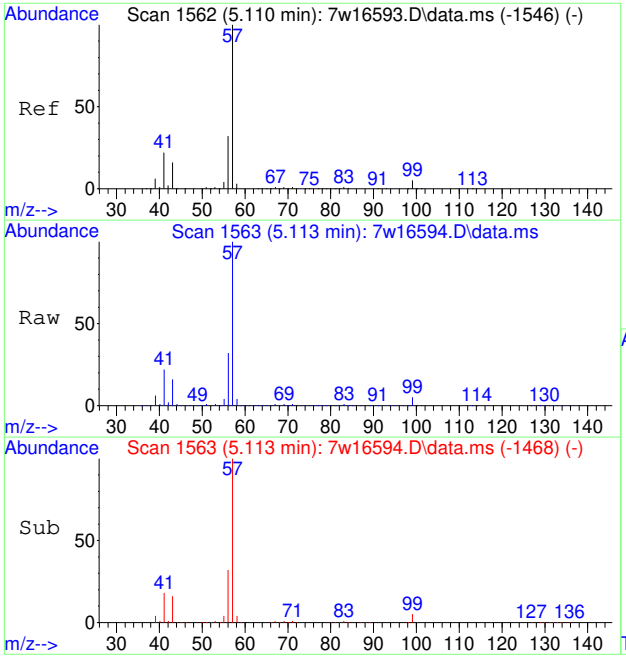


#59
BROMODICHLOROMETHANE
Concen: 60.60 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1618277

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

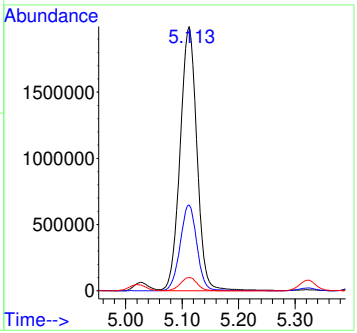


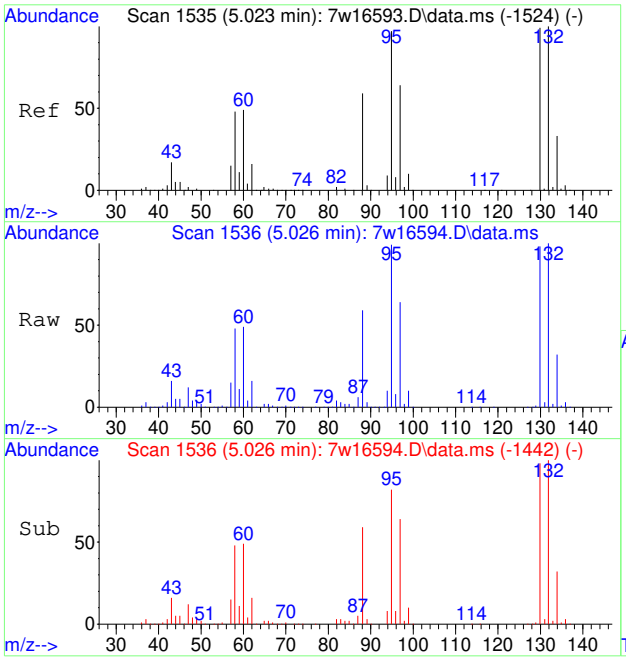


#60
2,2,4-TRIMETHYLPENTANE
Concen: 57.19 PPBV
RT: 5.113 min Scan# 1563
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 4127531

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

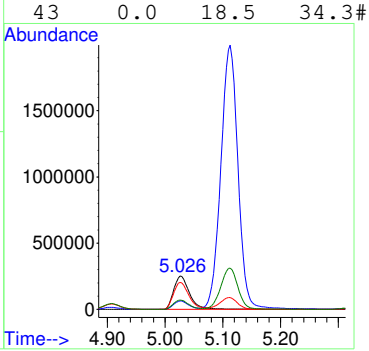


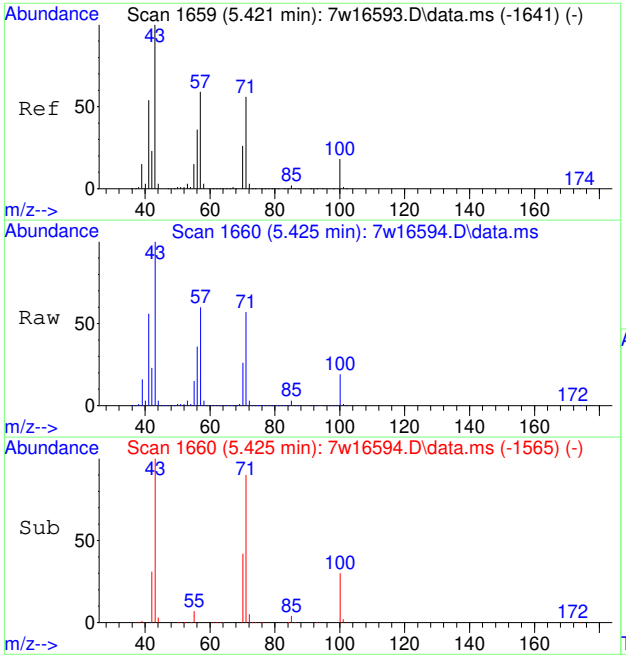


#61
1,4-DIOXANE
Concen: 61.98 PPBV m
RT: 5.026 min Scan# 1536
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 88 Resp: 483214

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

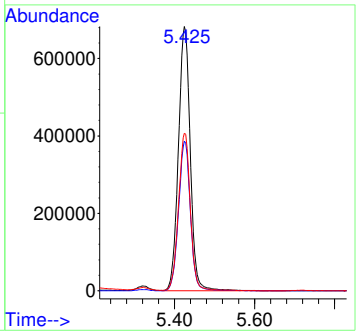


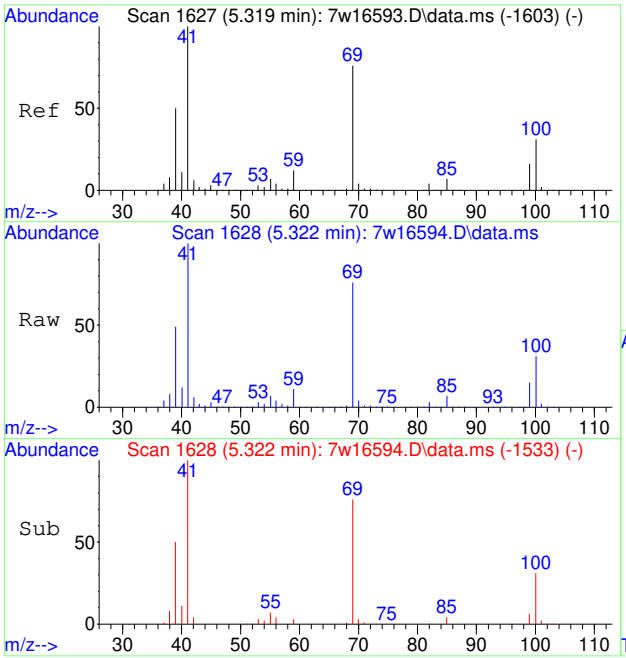


#62
HEPTANE
Concen: 59.03 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1404941

Ion	Ratio	Lower	Upper
43	100		
71	56.5	38.9	72.2
57	59.8	40.5	75.3

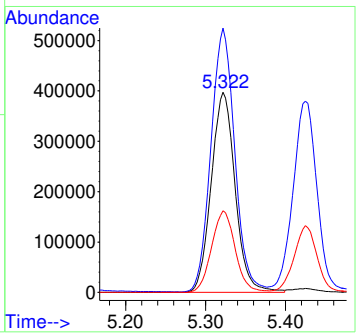


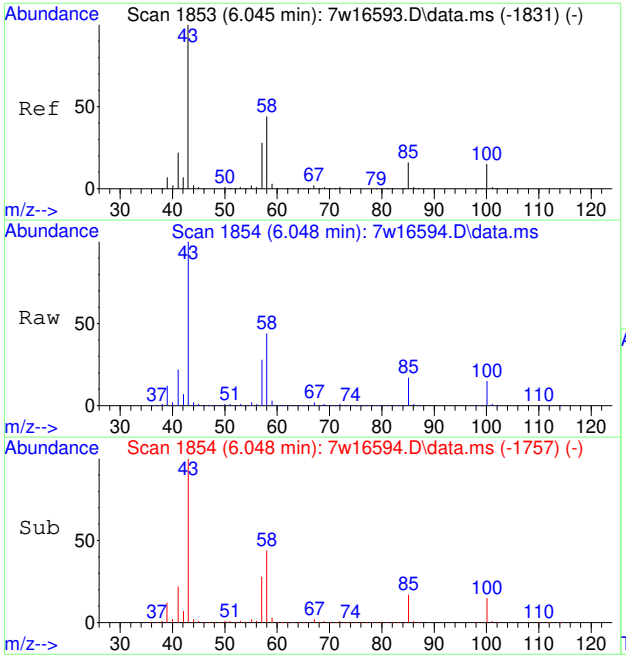


#63
METHYL METHACRYLATE
Concen: 62.06 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 825175

Ion	Ratio	Lower	Upper
69	100		
41	130.8	95.5	177.4
100	40.3	28.1	52.1

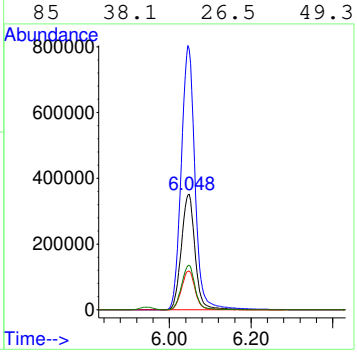


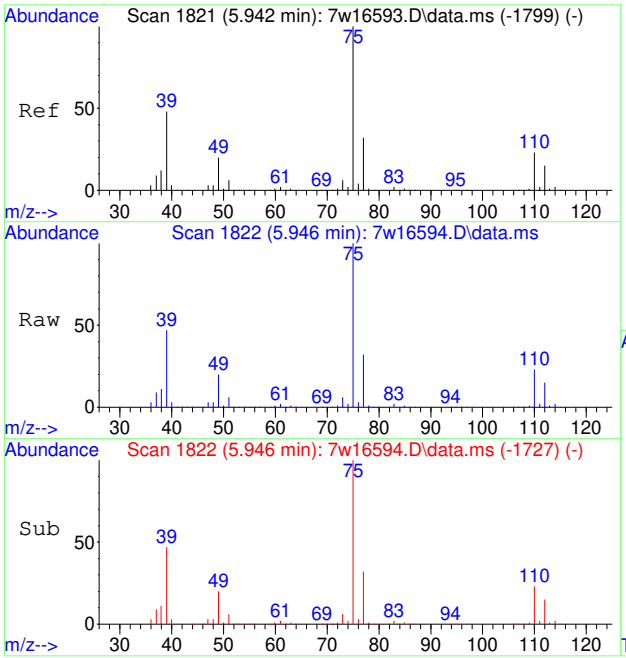


#64
METHYL ISOBUTYL KETONE
Concen: 57.66 PPBV
RT: 6.048 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 823387

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.8	23.2	43.2
85	38.1	26.5	49.3

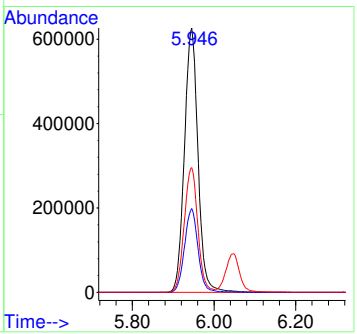


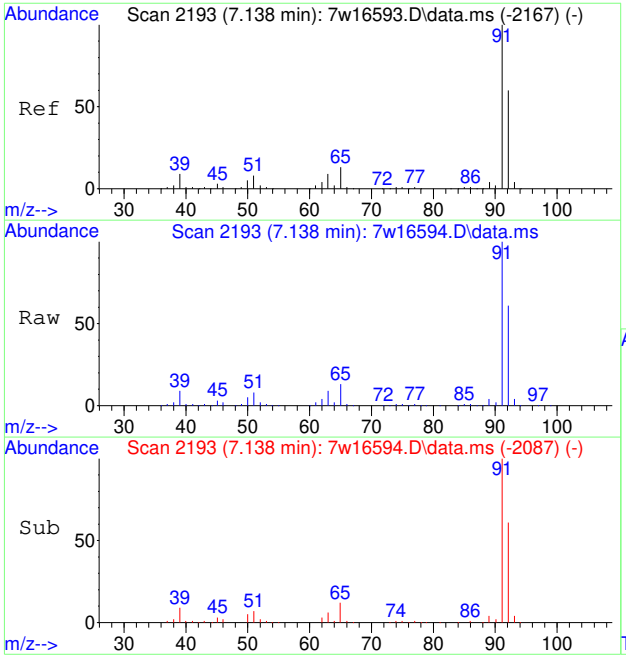


#65
CIS-1,3-DICHLOROPROPENE
Concen: 64.81 PPBV
RT: 5.946 min Scan# 1822
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1444587

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.0	41.0
39	47.4	35.7	66.3

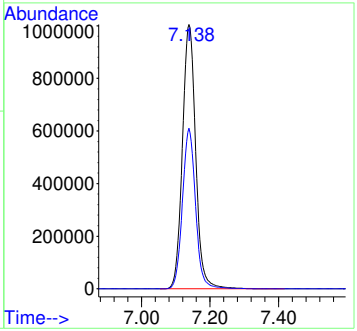


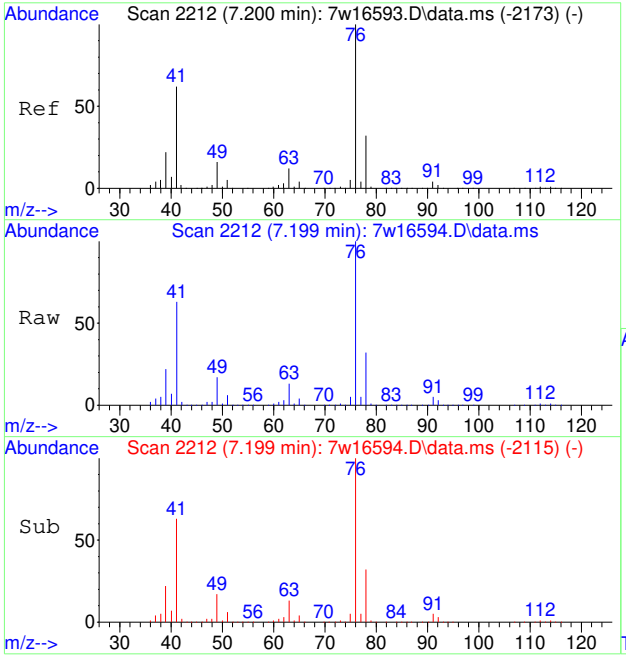


#66
TOLUENE
Concen: 63.95 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2694962

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

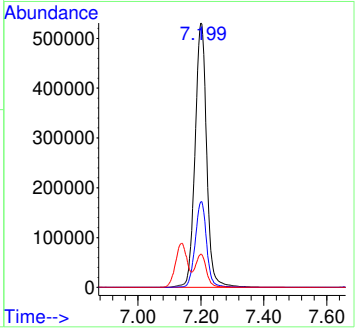


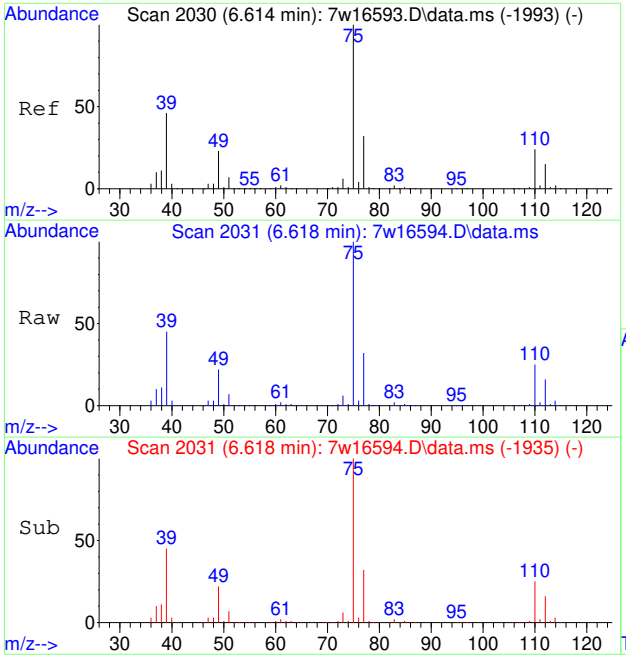


#67
1,3-DICHLOROPROPANE
Concen: 64.47 PPBV
RT: 7.199 min Scan# 2212
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1360921

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.7	8.3	15.5

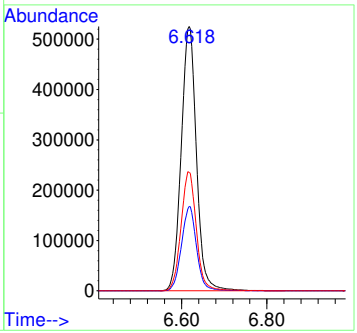


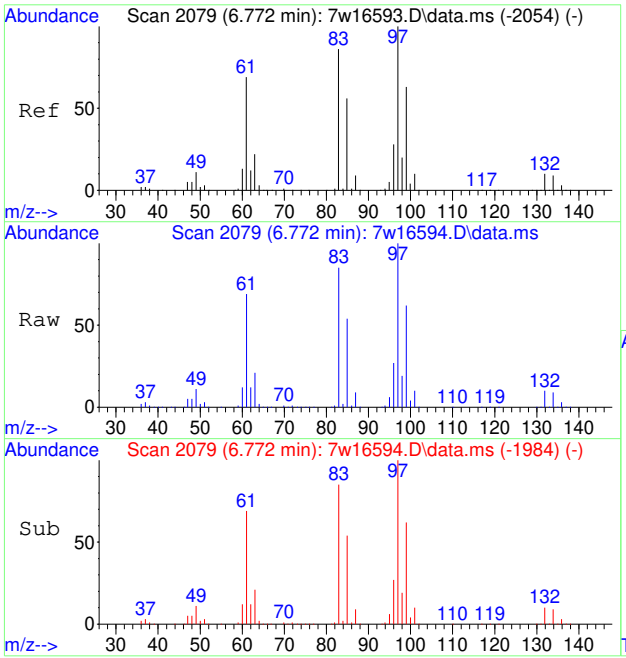


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 65.06 PPBV
RT: 6.618 min Scan# 2031
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1302469

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.3	41.5
39	45.4	33.9	63.0

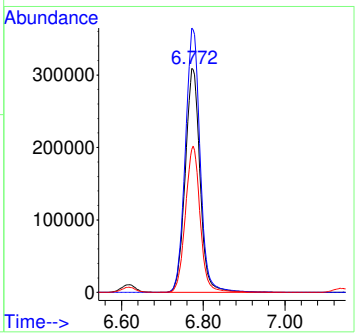


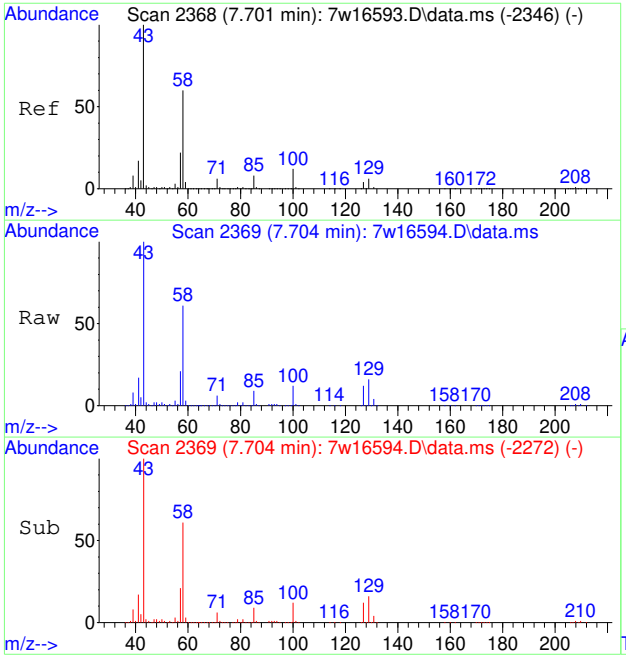


#69
1,1,2-TRICHLOROETHANE
Concen: 64.67 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 774964

Ion	Ratio	Lower	Upper
83	100		
97	0.0	81.2	150.8#
85	65.3	45.1	83.7

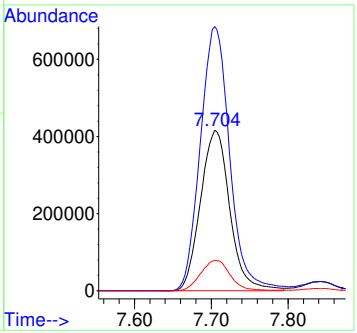


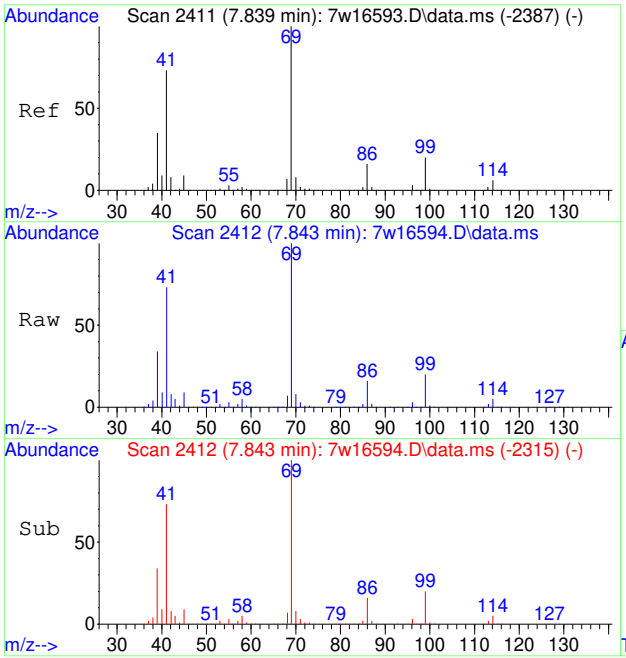


#70
2-HEXANONE
Concen: 55.20 PPBV
RT: 7.704 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 1106138

Ion	Ratio	Lower	Upper
58	100		
43	165.3	118.6	220.2
100	19.3	13.0	24.2

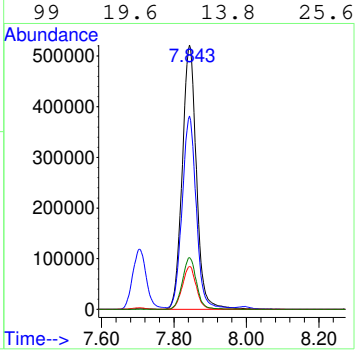


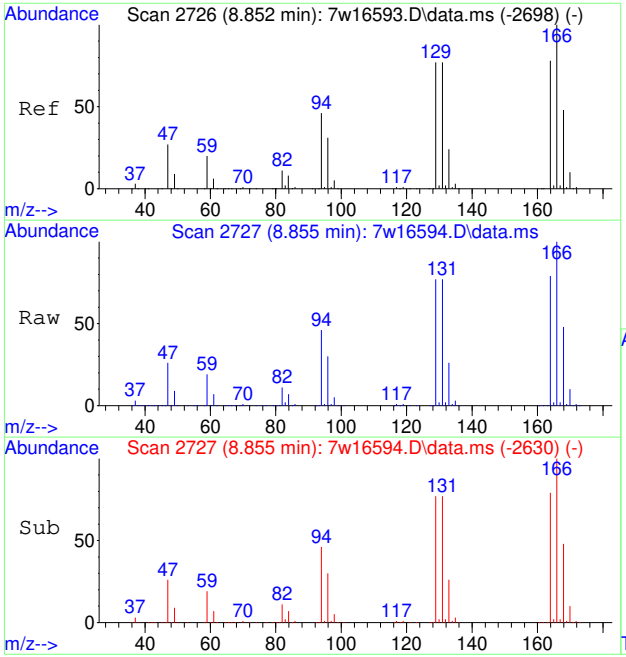


#71
ETHYL METHACRYLATE
Concen: 64.21 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 1420765

Ion	Ratio	Lower	Upper
69	100		
41	73.2	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

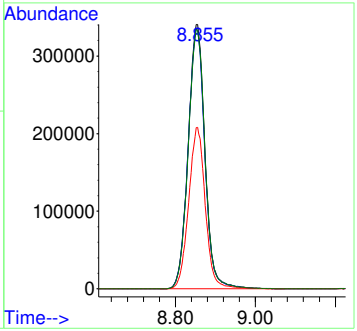


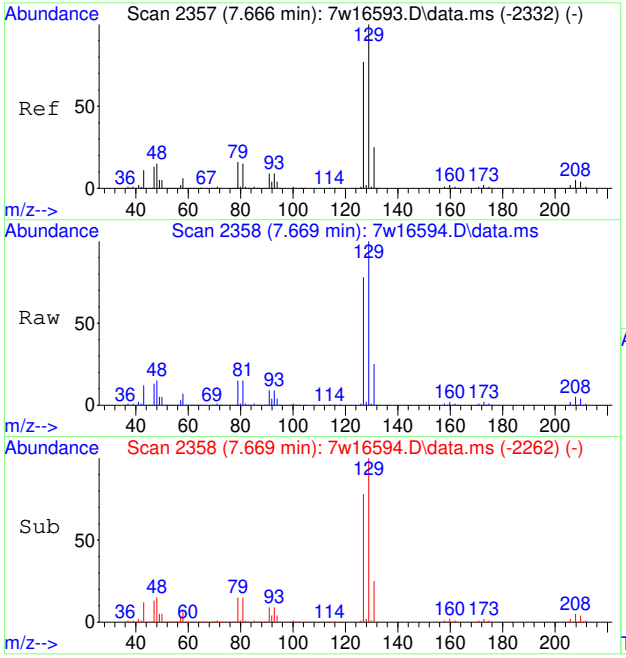


#72
TETRACHLOROETHENE
Concen: 64.80 PPBV
RT: 8.855 min Scan# 2727
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:164 Resp: 995678

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.4	69.4	129.0

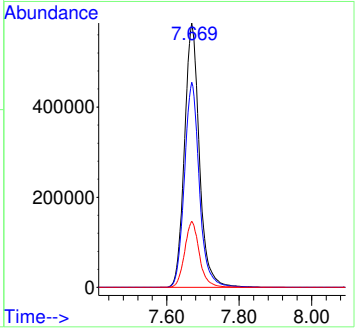


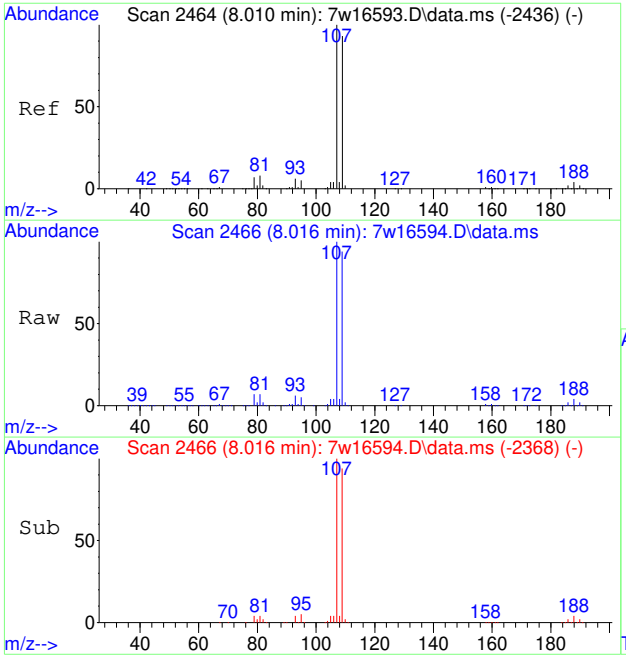


#73
DIBROMOCHLOROMETHANE
Concen: 69.22 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:129 Resp: 1671777

Ion	Ratio	Lower	Upper
129	100		
127	78.0	54.7	101.7
131	24.9	17.4	32.4

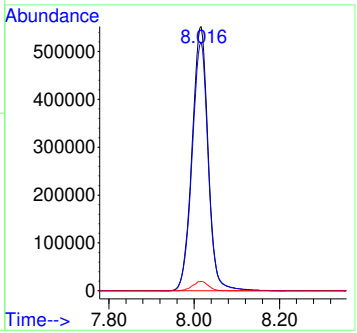


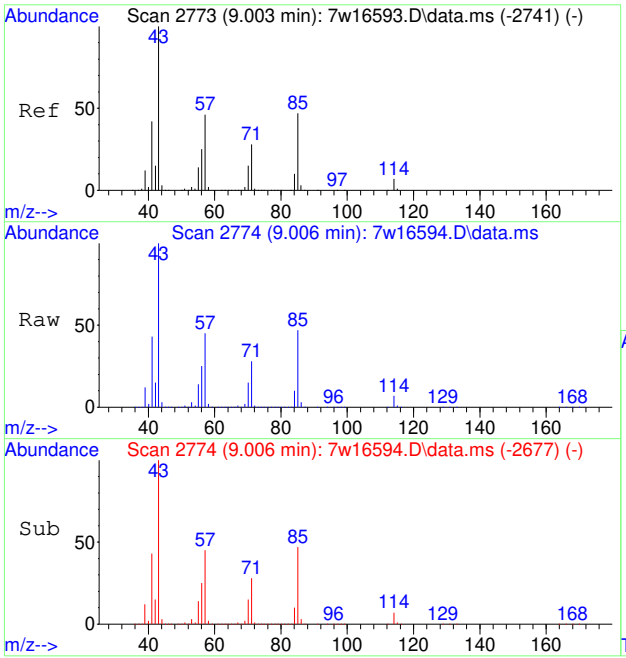


#74
1,2-DIBROMOETHANE
Concen: 66.89 PPBV
RT: 8.016 min Scan# 2466
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:107 Resp: 1452027

Ion	Ratio	Lower	Upper
107	100		
109	94.3	66.1	122.8
188	3.5	2.5	4.6

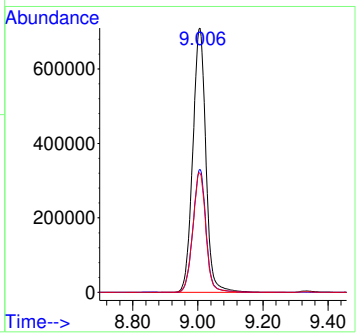


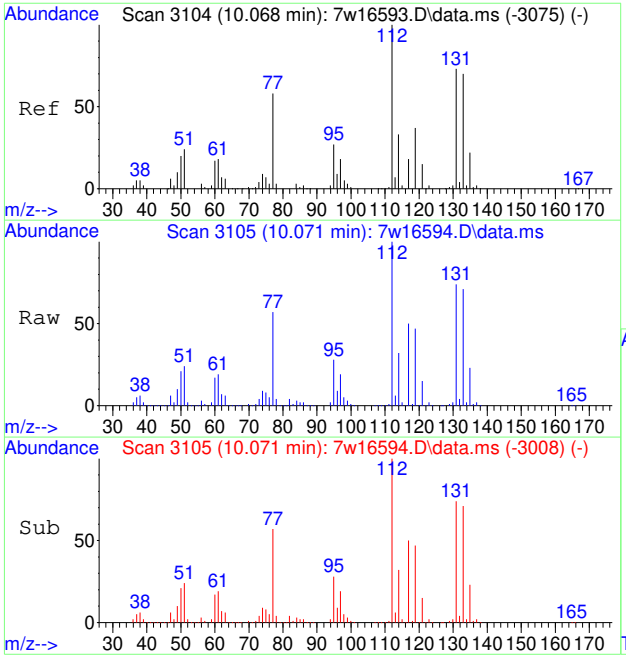


#75
OCTANE
Concen: 62.35 PPBV
RT: 9.006 min Scan# 2774
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1982903

Ion	Ratio	Lower	Upper
43	100		
85	46.5	31.8	59.0
57	45.3	31.4	58.2

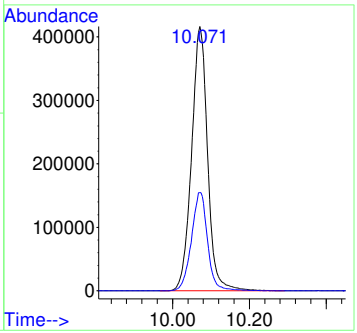


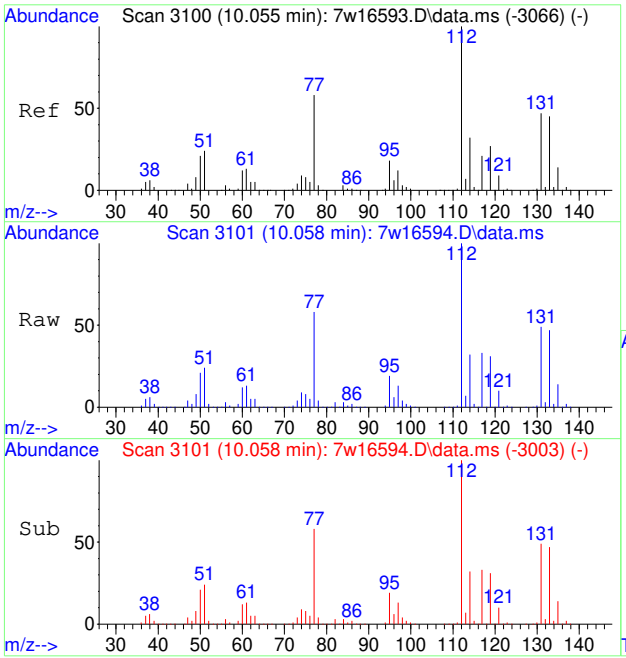


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 69.43 PPBV
RT: 10.071 min Scan# 3105
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:131 Resp: 1205798

Ion	Ratio	Lower	Upper
131	100		
95	37.5	26.5	49.1

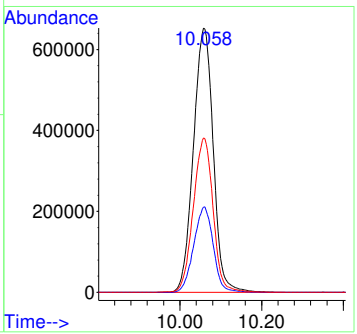


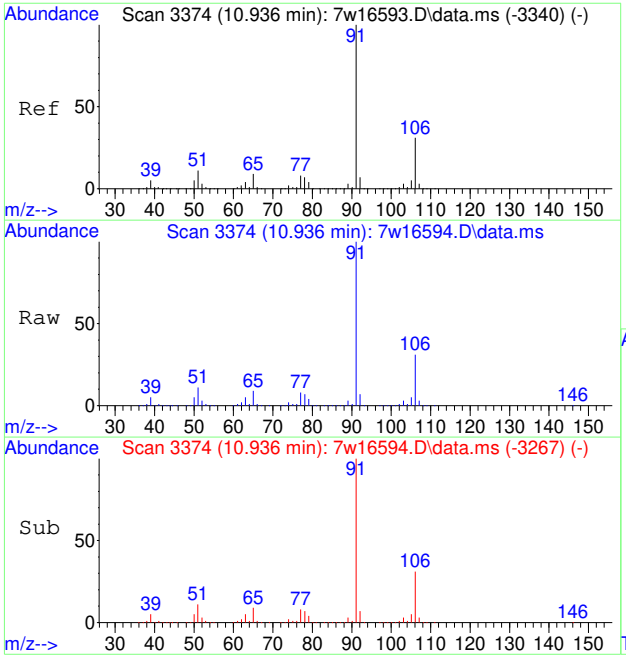


#78
CHLOROBENZENE
Concen: 66.36 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:112 Resp: 2204542

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.7
77	58.5	42.1	78.1

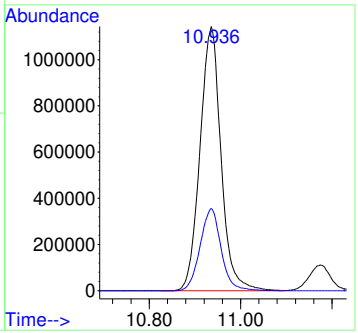


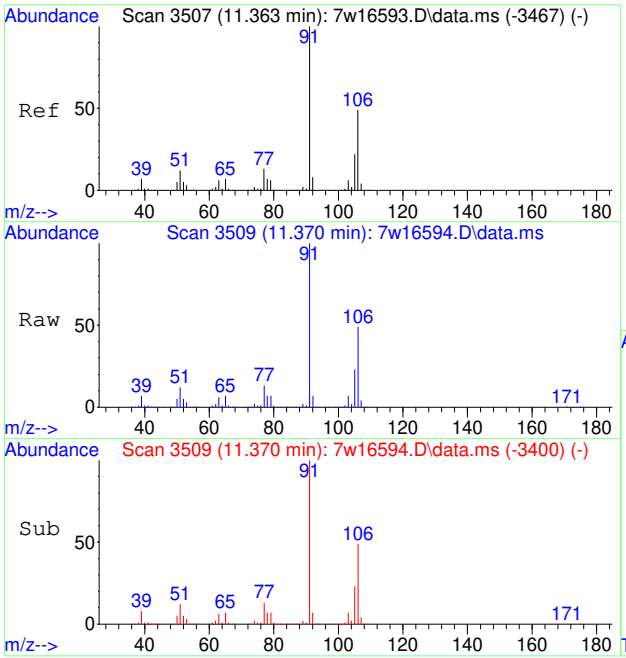


#79
ETHYLBENZENE
Concen: 67.08 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3650660

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

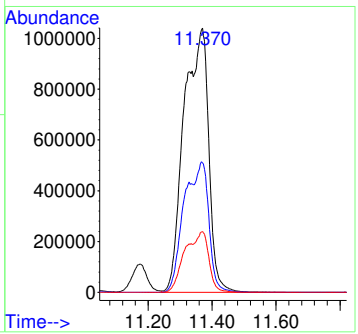


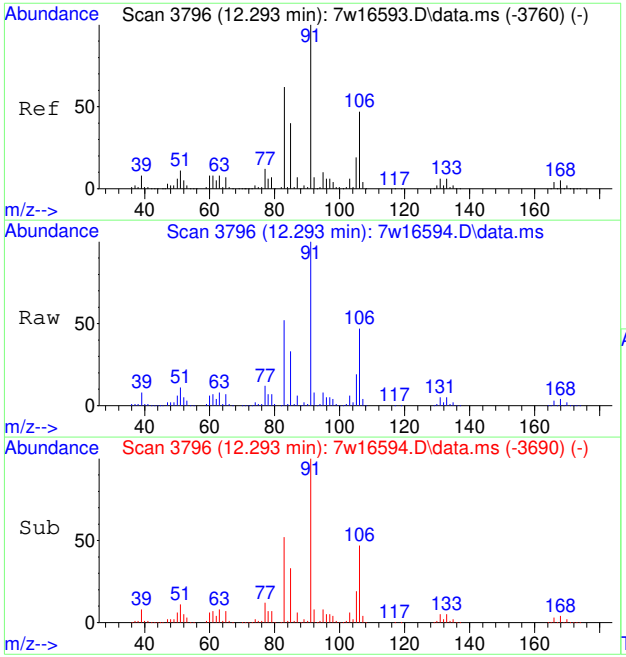


#80
M,P-XYLENE
Concen: 125.67 PPBV
RT: 11.370 min Scan# 3509
Delta R.T. 0.020 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 5556486

Ion	Ratio	Lower	Upper
91	100		
106	49.6	0.0	56.1
105	22.5	0.0	42.1

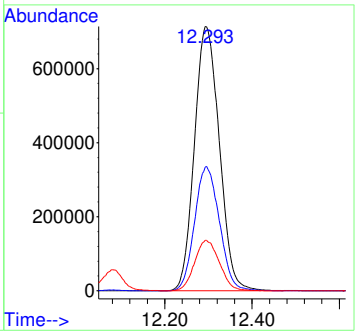


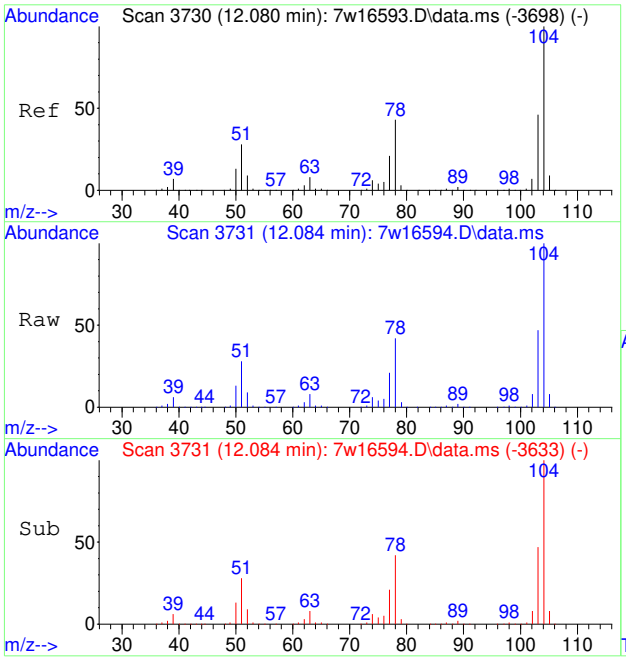


#81
O-XYLENE
Concen: 66.28 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2839567

Ion	Ratio	Lower	Upper
91	100		
106	46.7	31.8	59.0
105	19.1	13.0	24.2

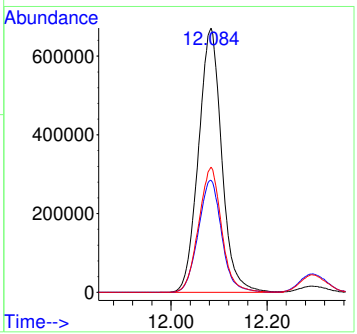


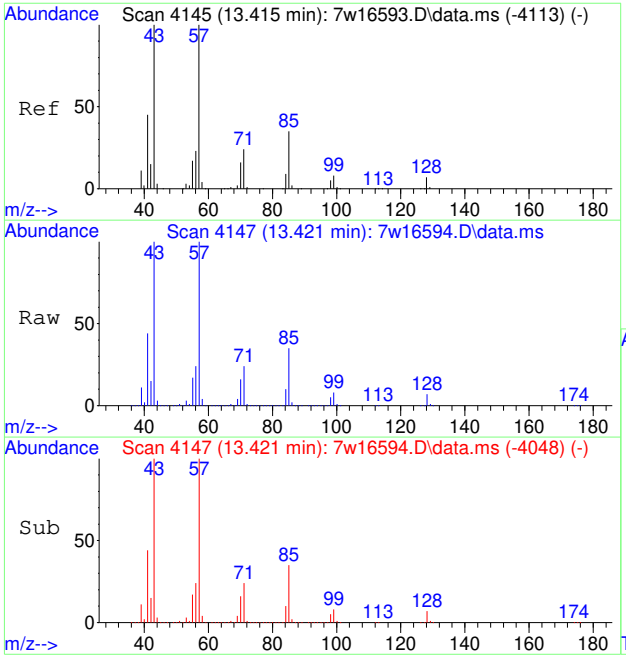


#82
STYRENE
Concen: 70.41 PPBV
RT: 12.084 min Scan# 3731
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:104 Resp: 2245416

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

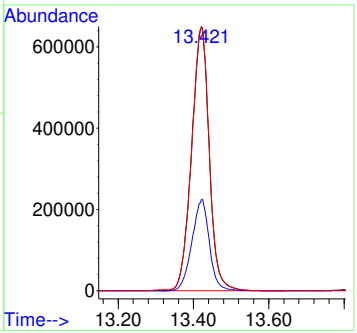


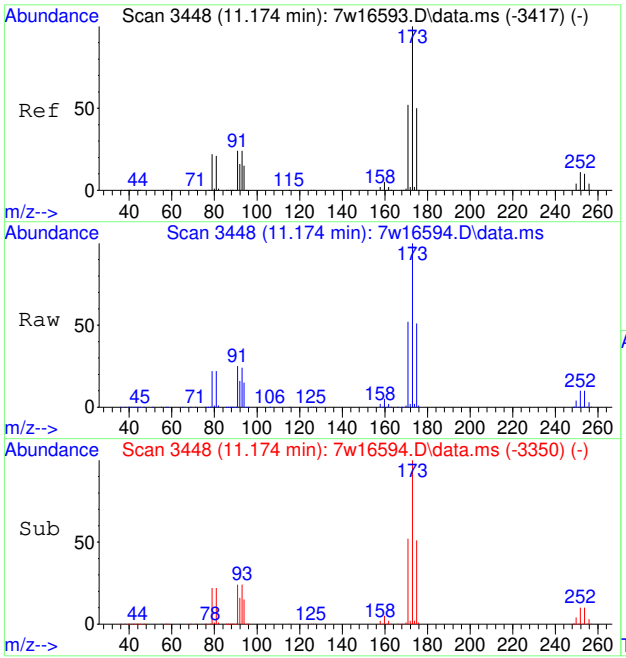


#83
NONANE
Concen: 63.10 PPBV
RT: 13.421 min Scan# 4147
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 2110946

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.8	69.2	128.6

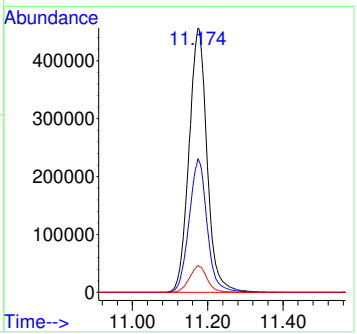


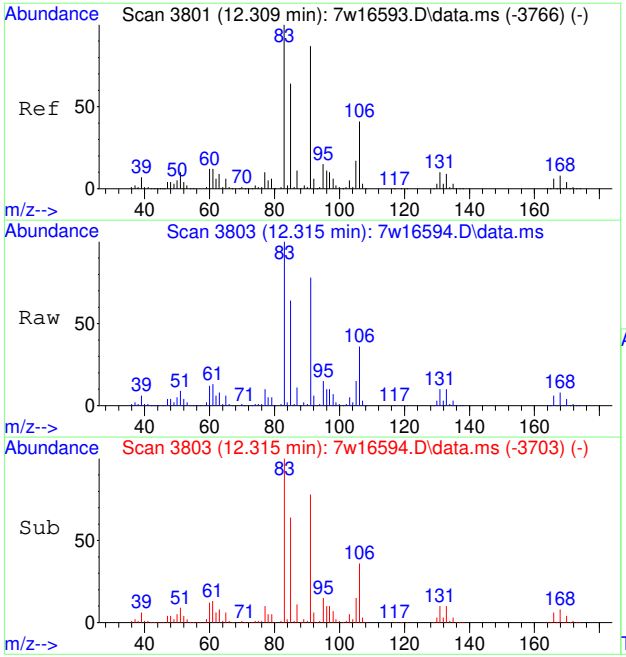


#84
BROMOFORM
Concen: 75.01 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:173 Resp: 1514711

Ion	Ratio	Lower	Upper
173	100		
175	50.3	35.1	65.1
254	9.9	6.7	12.5

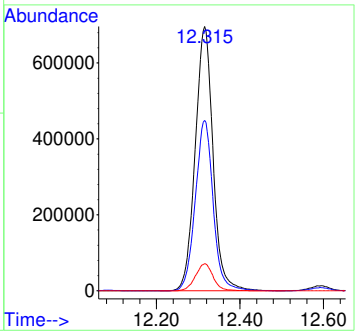


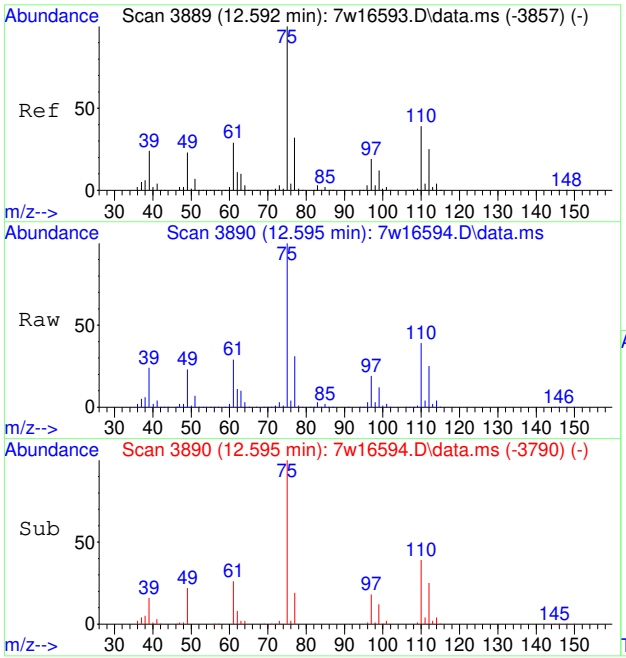


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 67.37 PPBV
RT: 12.315 min Scan# 3803
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 2064226

Ion	Ratio	Lower	Upper
83	100		
85	64.6	45.5	84.5
131	10.3	7.3	13.5

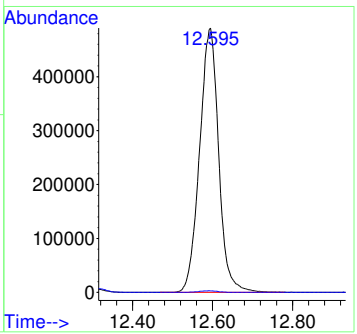


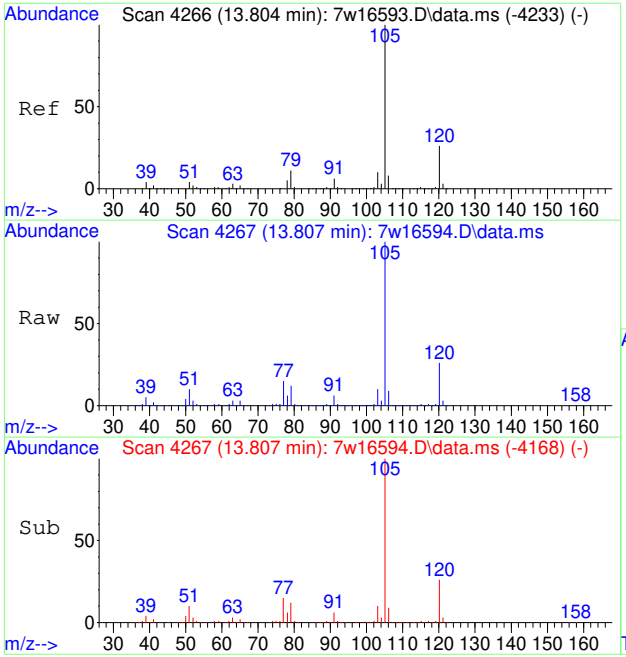


#86
1,2,3-TRICHLOROPROPANE
Concen: 67.69 PPBV
RT: 12.595 min Scan# 3890
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1624746

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

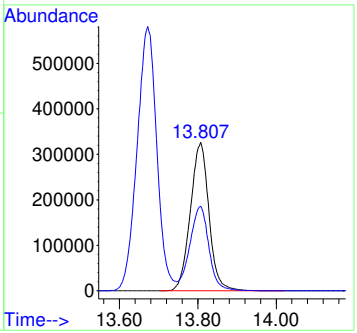


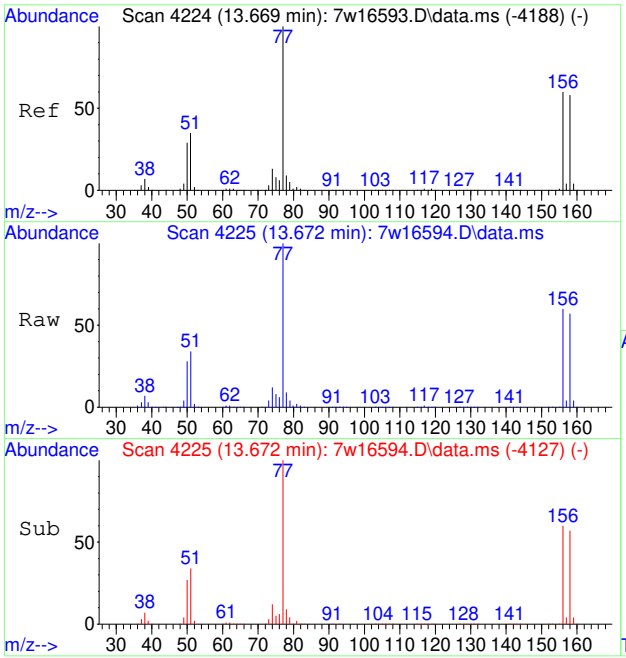


#88
ISOPROPYLBENZENE
Concen: 65.98 PPBV
RT: 13.807 min Scan# 4267
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1073063

Ion	Ratio	Lower	Upper
120	100		
77	58.2	42.5	78.9

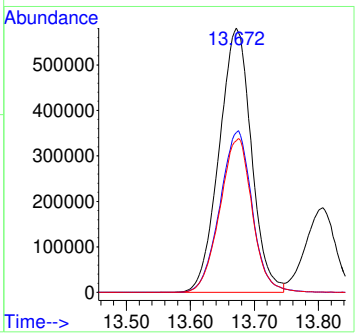


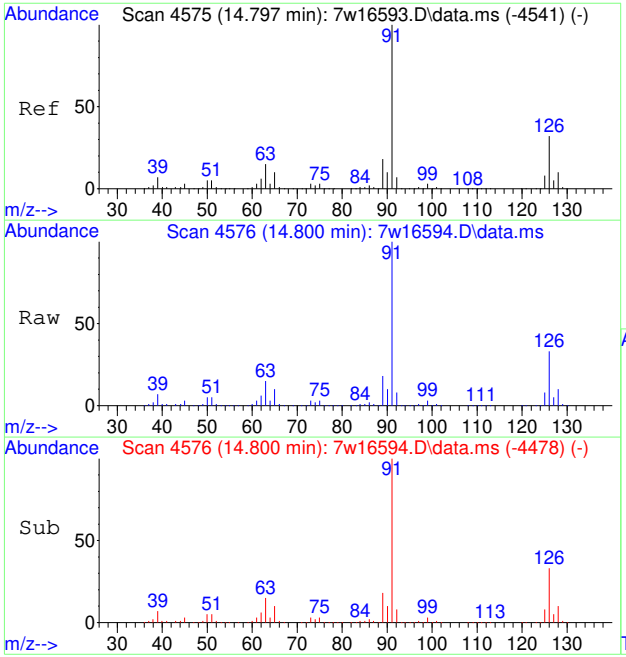


#89
BROMOBENZENE
Concen: 65.06 PPBV
RT: 13.672 min Scan# 4225
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 77 Resp: 2035109

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	58.7	40.9	76.0

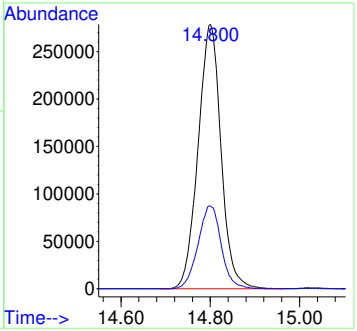


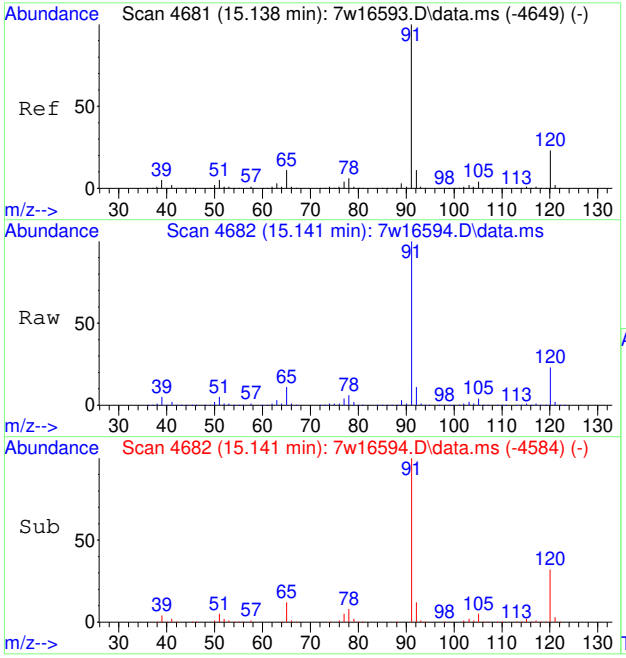


#90
2-CHLOROTOLUENE
Concen: 65.73 PPBV
RT: 14.800 min Scan# 4576
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:126 Resp: 993540

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.5	41.7

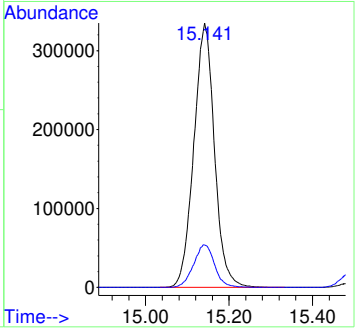


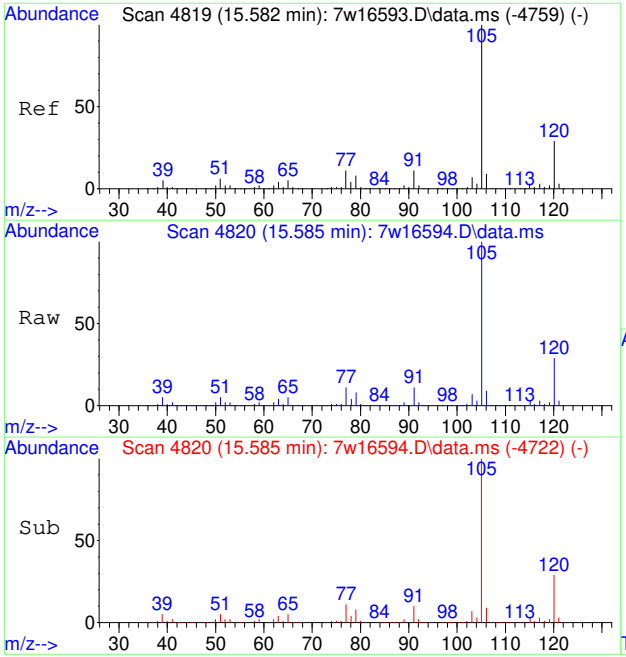


#91
N-PROPYLBENZENE
Concen: 66.71 PPBV
RT: 15.141 min Scan# 4682
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1146895

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

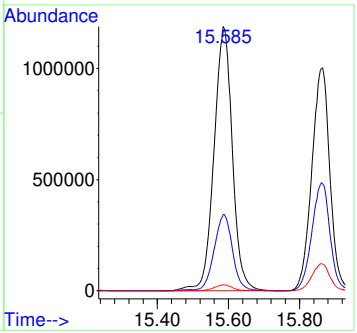


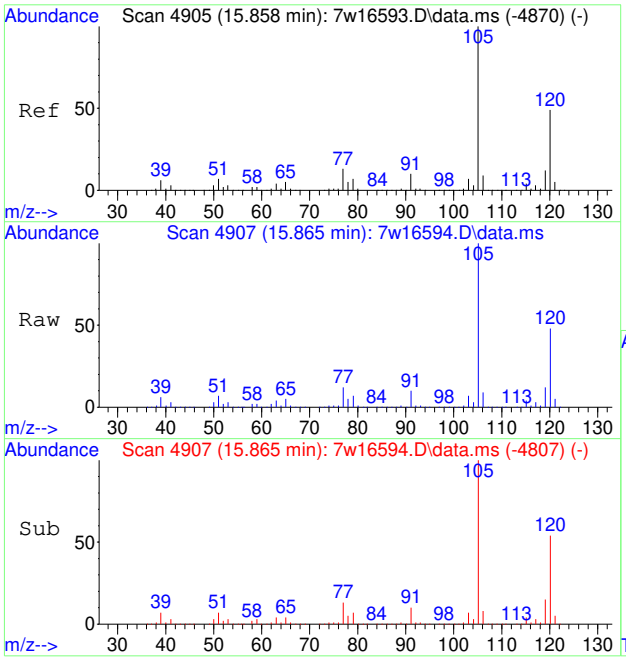


#92
4-ETHYLTOLUENE
Concen: 66.89 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 4258764

Ion	Ratio	Lower	Upper
105	100		
120	29.1	20.7	38.5
119	2.2	1.6	3.0

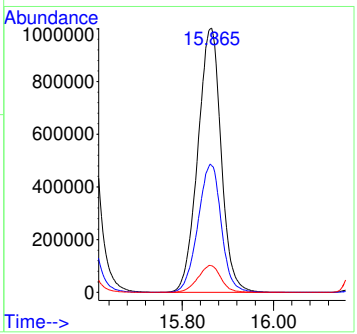


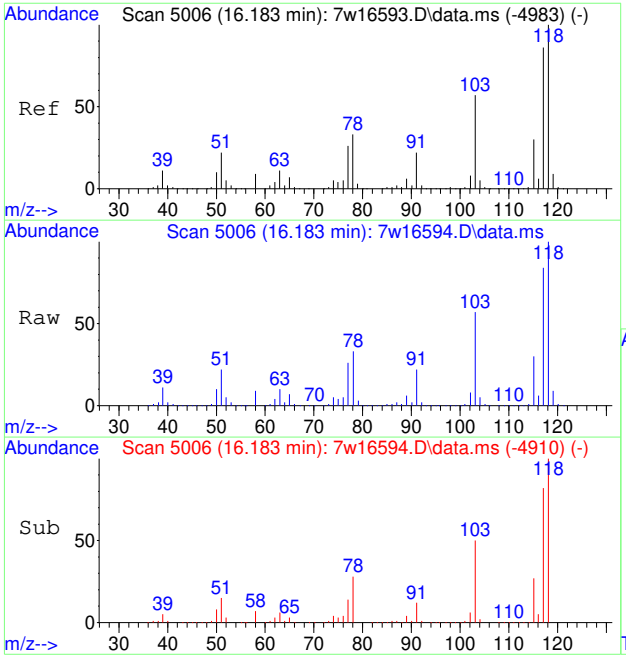


#93
1,3,5-TRIMETHYLBENZENE
Concen: 66.72 PPBV
RT: 15.865 min Scan# 4907
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3539586

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

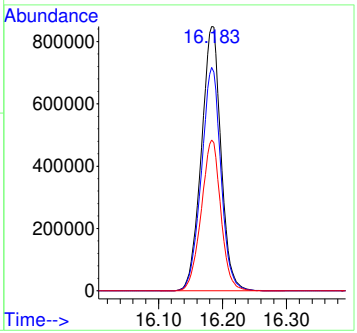


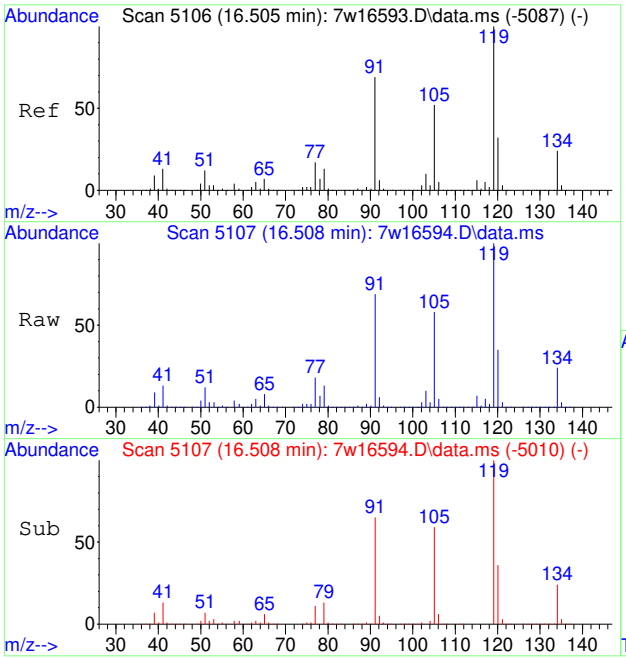


#94
ALPHA-METHYLSTYRENE
Concen: 68.96 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:118 Resp: 1802748

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.9	40.3	74.9

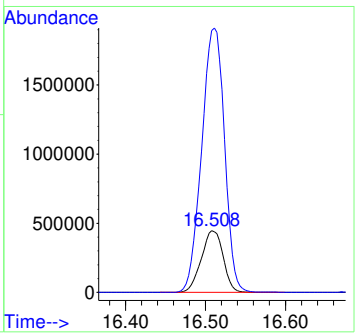


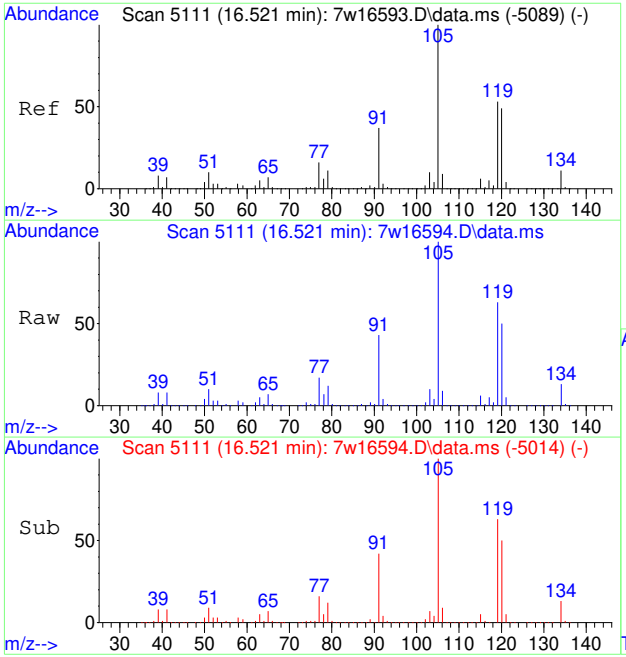


#95
TERT-BUTYLBENZENE
Concen: 65.41 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 849405

Ion	Ratio	Lower	Upper
134	100		
119	445.9	311.3	578.1

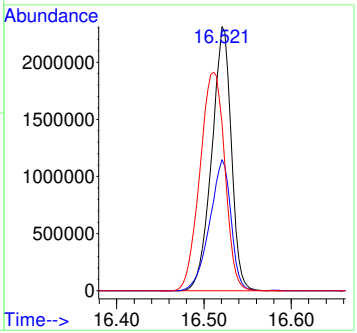


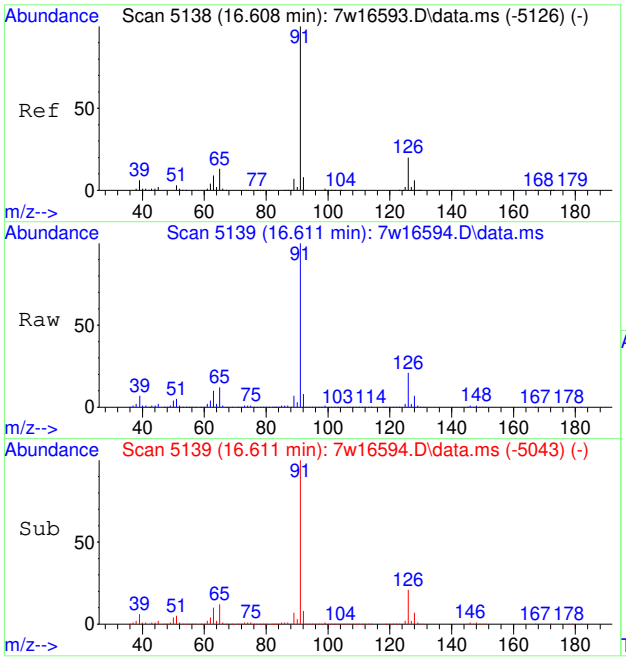


#96
1,2,4-TRIMETHYLBENZENE
Concen: 68.48 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3598939

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

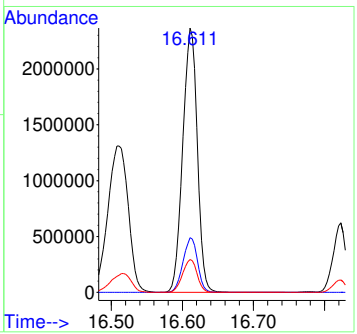


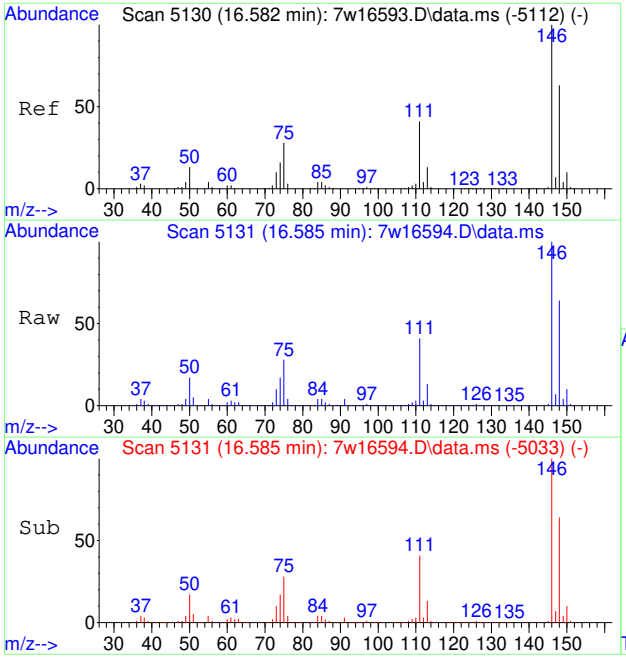


#97
BENZYL CHLORIDE
Concen: 81.19 PPBV
RT: 16.611 min Scan# 5139
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3366305

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.5	9.2	17.0

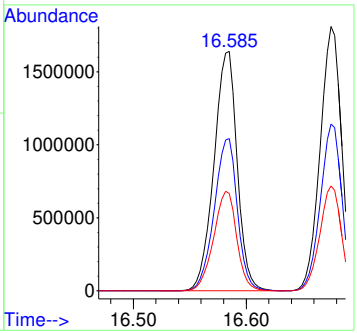


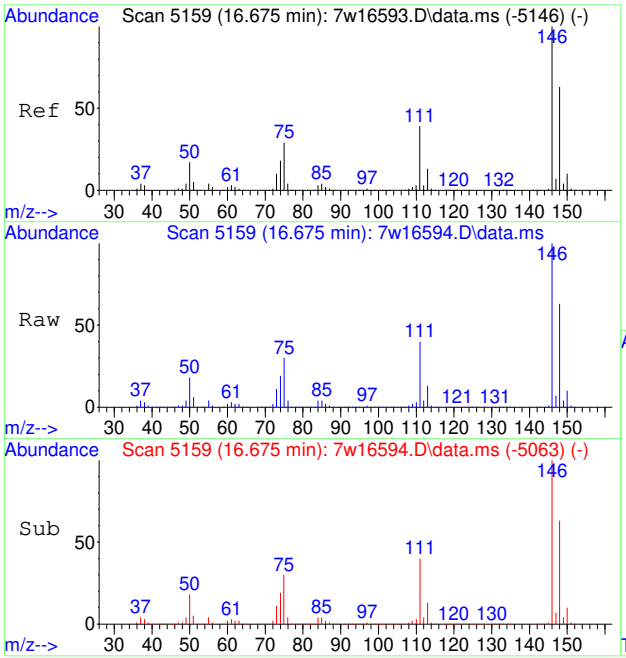


#98
M-DICHLOROBENZENE
Concen: 64.53 PPBV
RT: 16.585 min Scan# 5131
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2335430

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.6	82.8
111	41.4	29.3	54.3

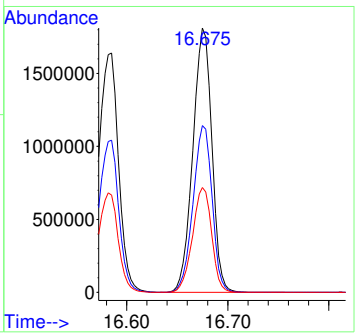


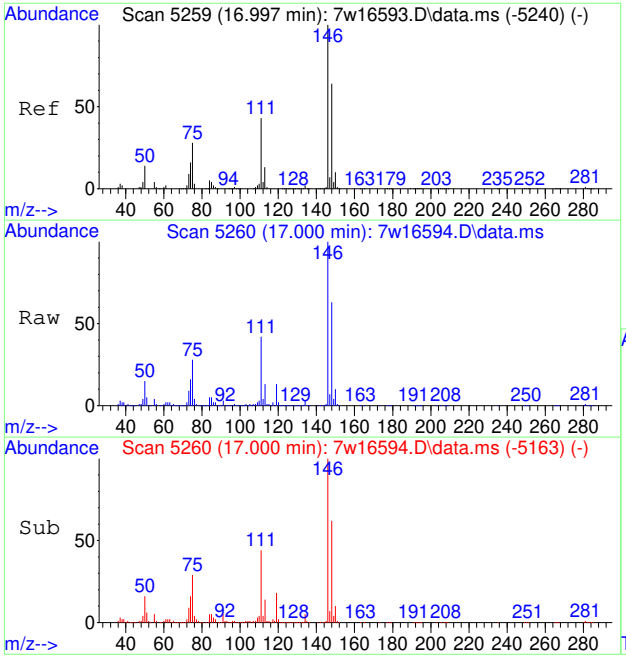


#99
P-DICHLOROBENZENE
Concen: 66.58 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2373563

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	39.9	28.0	52.0

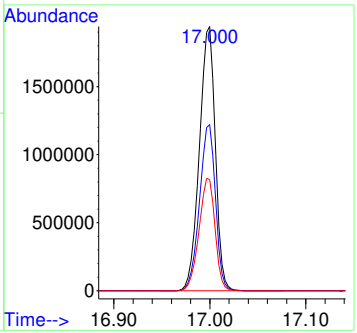


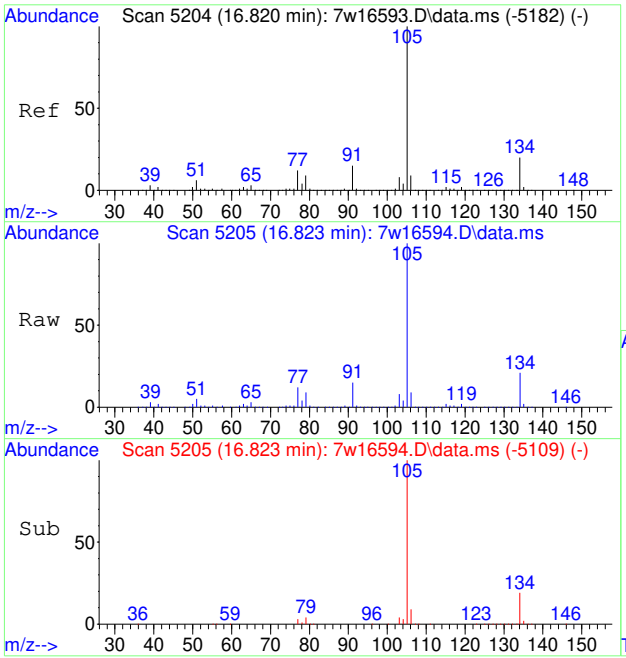


#100
O-DICHLOROBENZENE
Concen: 66.71 PPBV
RT: 17.000 min Scan# 5260
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2236033

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

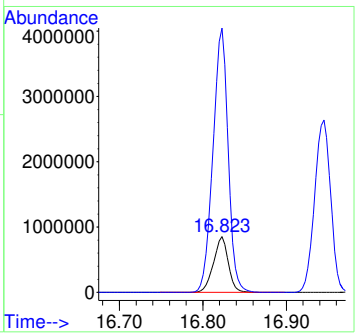


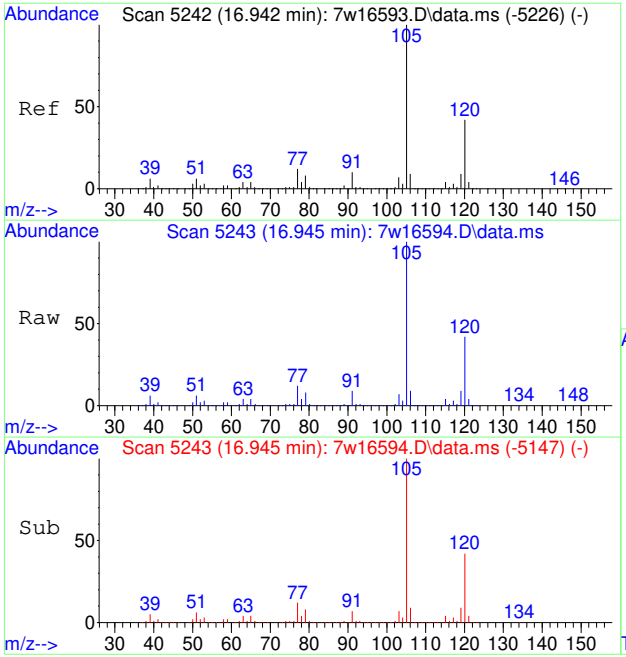


#101
SEC-BUTYLBENZENE
Concen: 67.84 PPBV
RT: 16.823 min Scan# 5205
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1046061

Ion	Ratio	Lower	Upper
134	100		
105	488.3	344.8	640.3

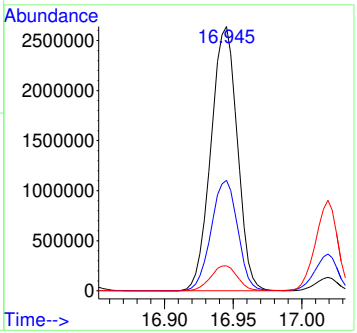


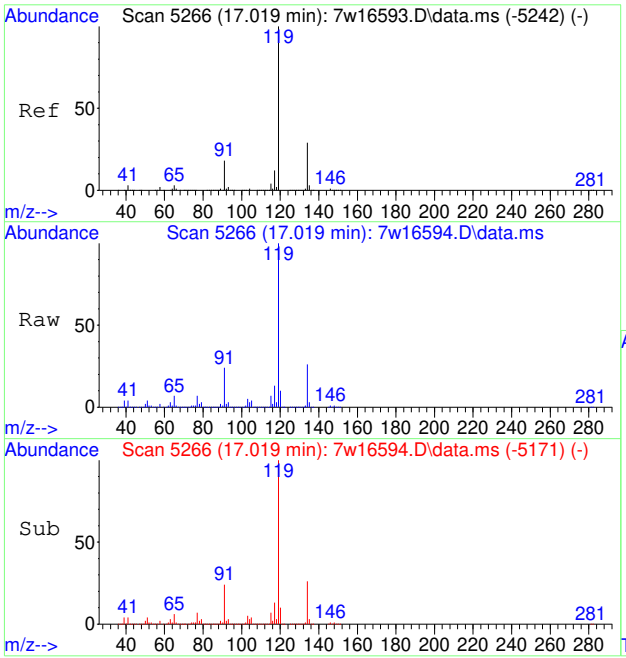


#102
1,2,3-TRIMETHYLBENZENE
Concen: 66.96 PPBV
RT: 16.945 min Scan# 5243
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3529094

Ion	Ratio	Lower	Upper
105	100		
120	42.1	29.3	54.3
91	9.7	7.0	13.0

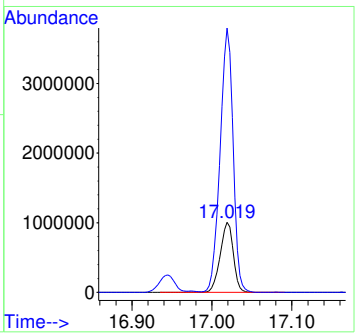


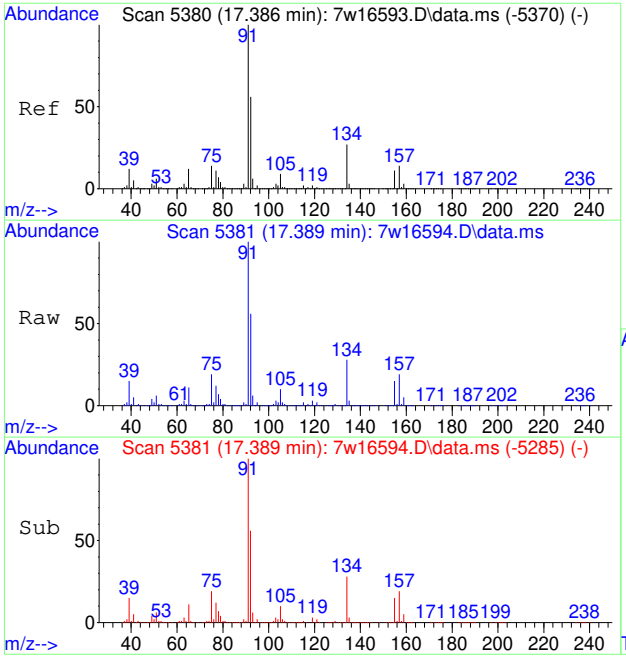


#103
P-ISOPROPYLTOLUENE
Concen: 66.86 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1145439

Ion	Ratio	Lower	Upper
134	100		
119	373.3	261.4	485.4

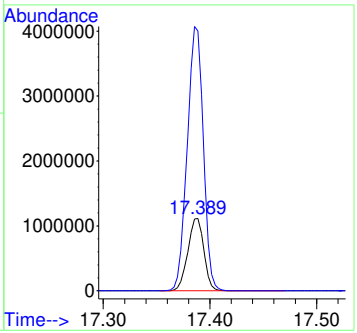


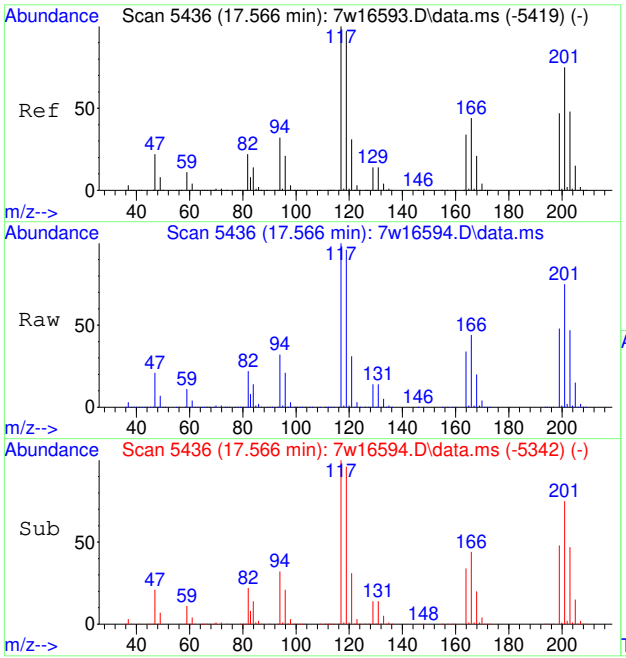


#104
N-BUTYLBENZENE
Concen: 71.38 PPBV
RT: 17.389 min Scan# 5381
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1159070

Ion	Ratio	Lower	Upper
134	100		
91	367.1	261.0	484.8

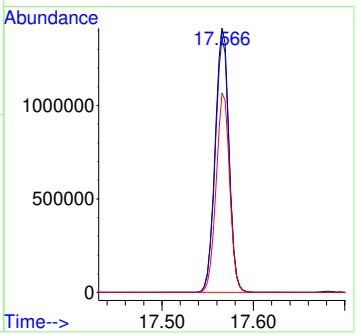


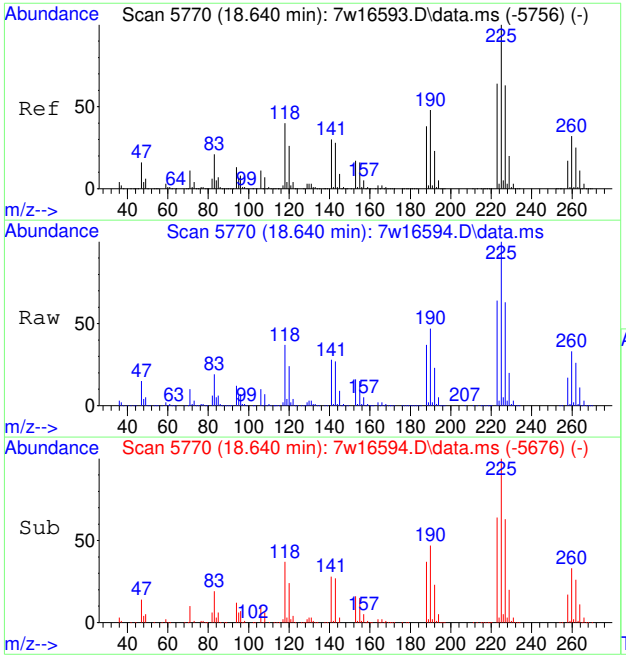


#105
HEXACHLOROETHANE
Concen: 74.98 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1491790

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	74.0	49.8	92.6

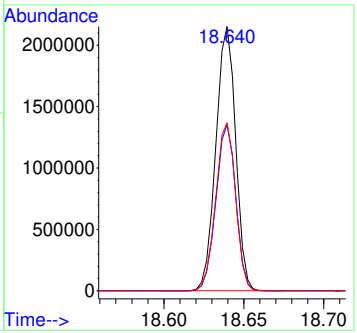


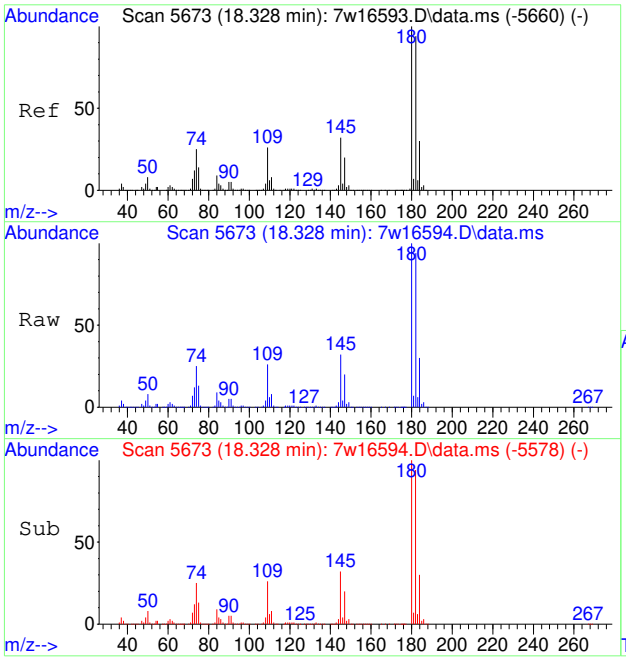


#106
HEXACHLOROBUTADIENE
Concen: 78.27 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:225 Resp: 1851997

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.6	82.8
223	63.8	44.6	82.8

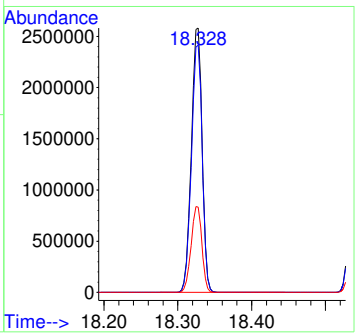


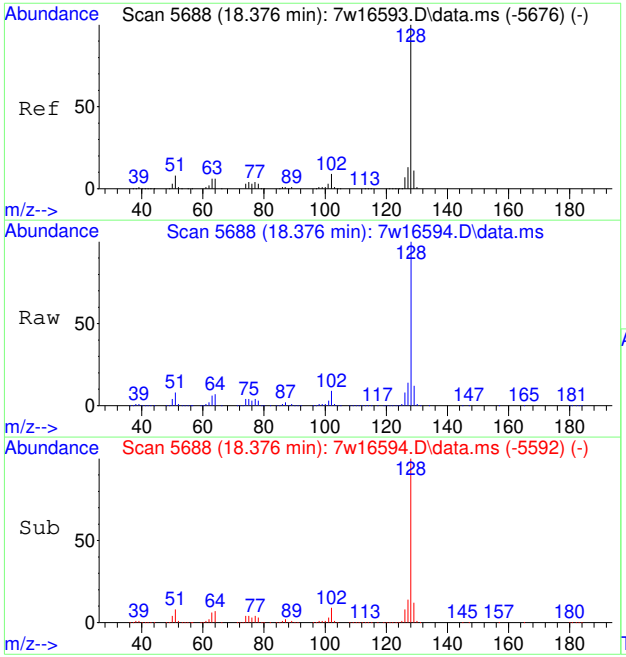


#107
1,2,4-TRICHLOROBENZENE
Concen: 93.58 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:180 Resp: 2599589

Ion	Ratio	Lower	Upper
180	100		
182	94.0	66.6	123.6
145	32.6	22.5	41.9

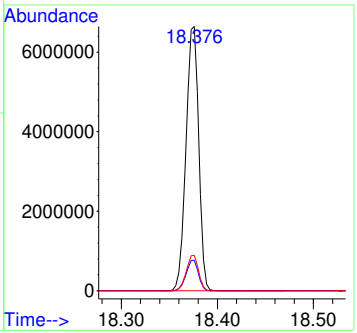


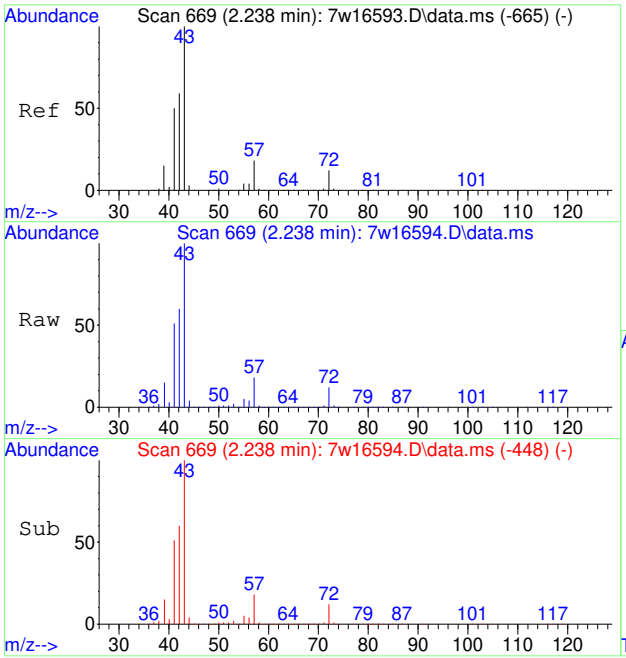


#108
NAPHTHALENE
Concen: 98.65 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:128 Resp: 6111699

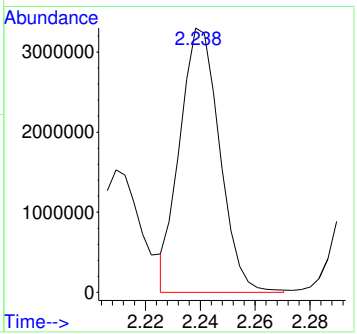
Ion	Ratio	Lower	Upper
128	100		
129	11.3	7.5	13.9
127	13.1	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 53.84 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:TIC Resp: 3312203



Manual Integration Approval Summary

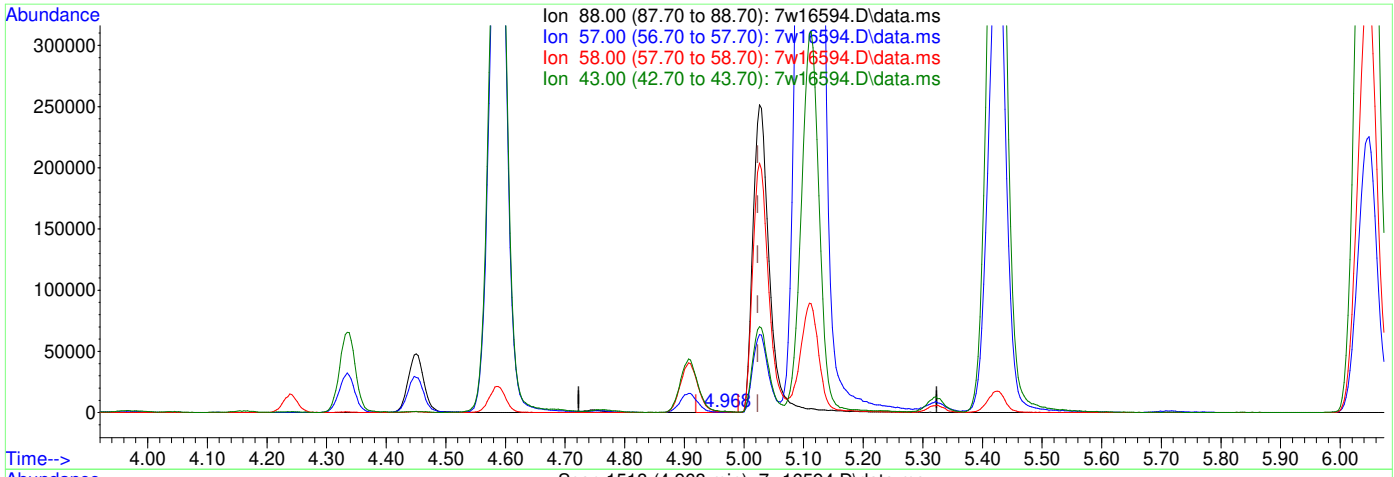
Sample Number: V7W577-IC577
Lab FileID: 7W16594.D
Injection Time: 08/07/25 16:02
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

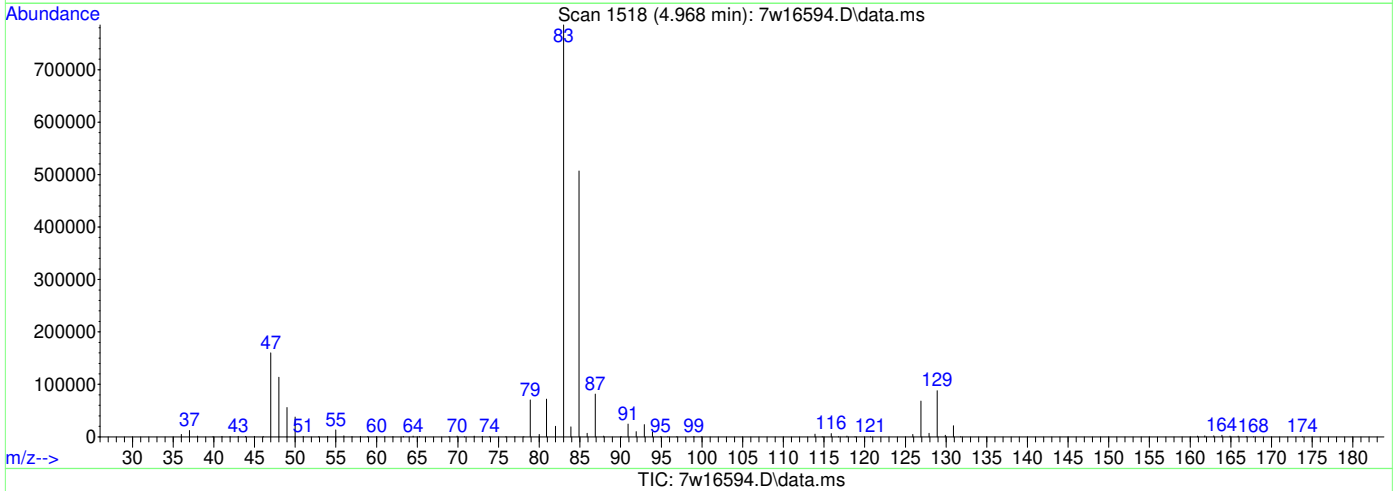
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.03	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

4.968min (-0.055) 0.23PPBV

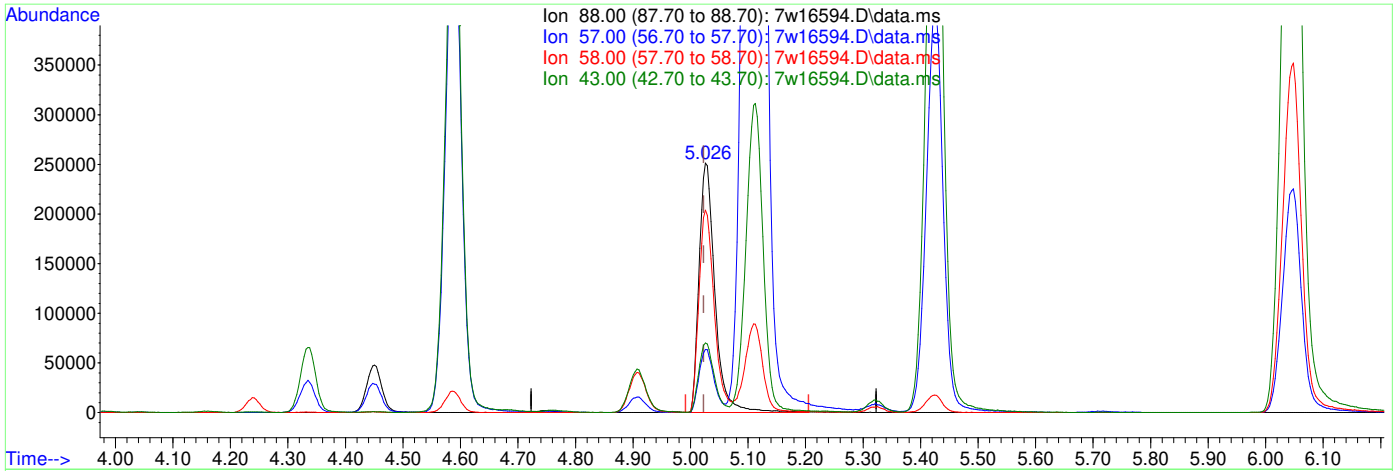
response 1814

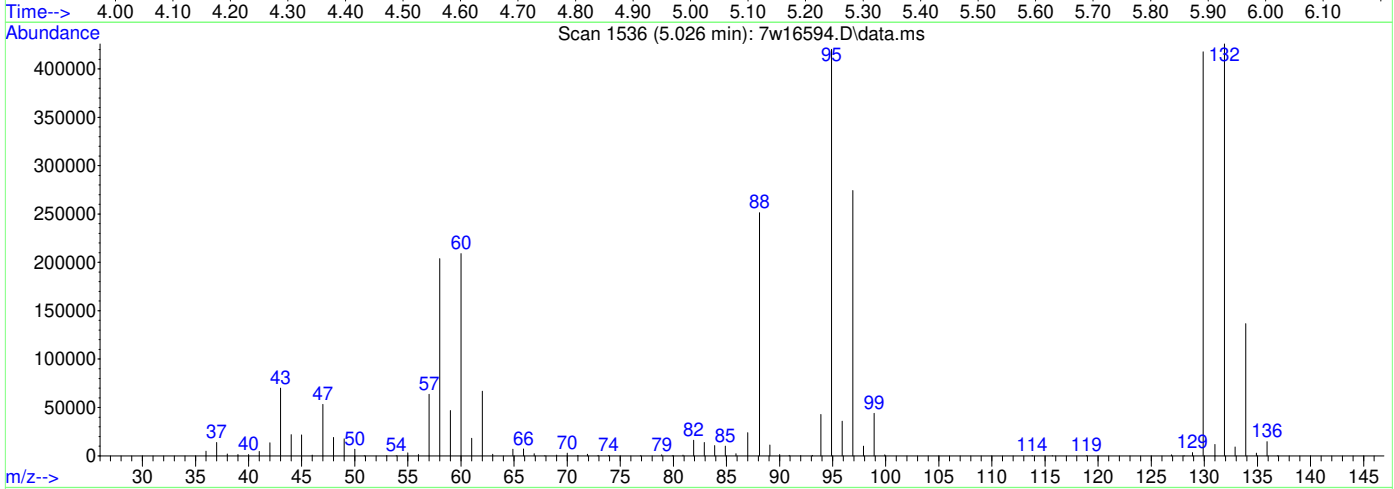
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

5.026min (+0.003) 61.98PPBV m

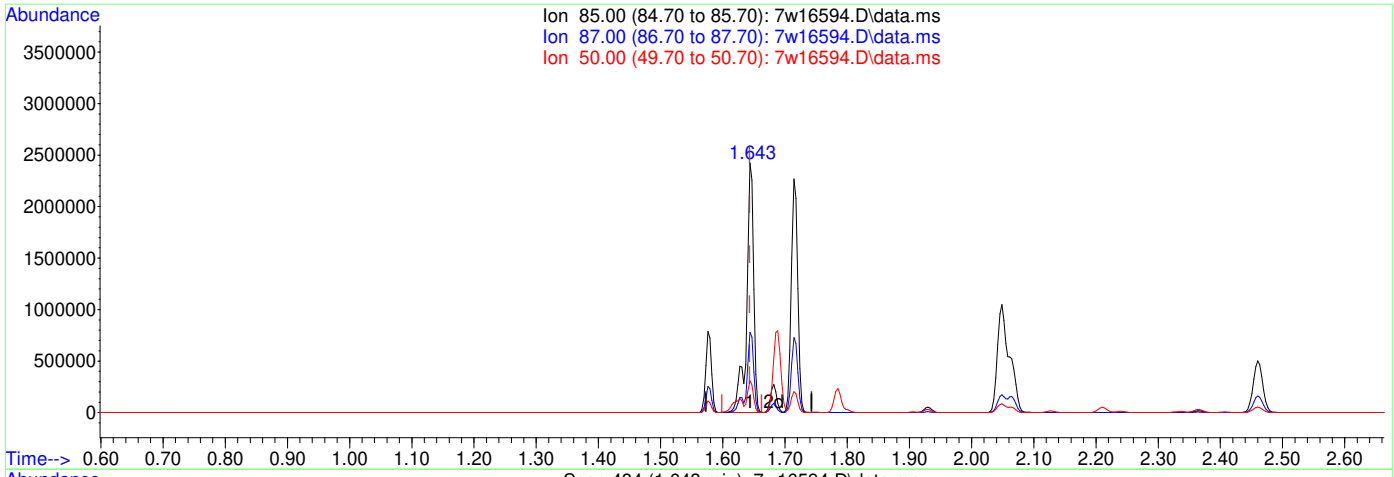
response 483214

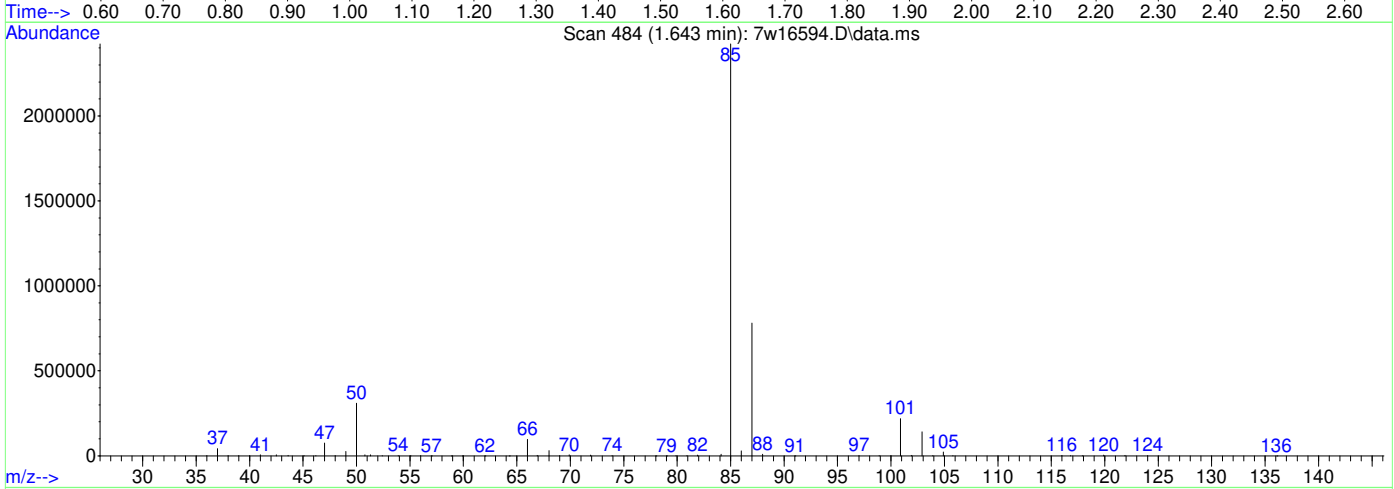
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 62.42PPBV

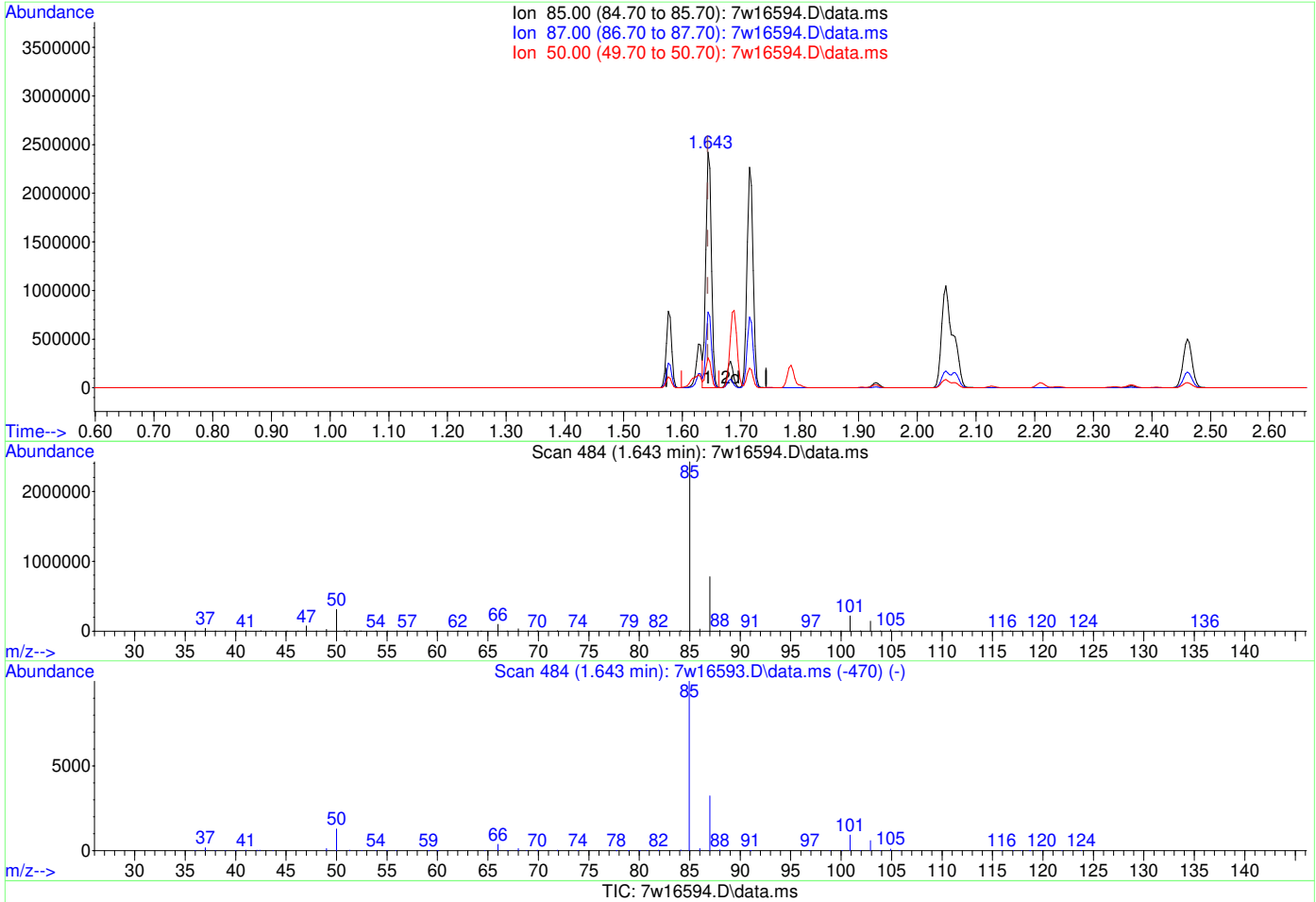
response 1902131

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.33
50.00	19.30	18.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration



TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 52.05PPBV m

response 1586079

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	22.28
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	108383	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	546930	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	500783	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	108383	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	408741	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	140448	10.68	PPBV		100
3) FREON 152A	1.608	65	69502	10.25	PPBV		99
4) CHLORODIFLUOROMETHANE	1.618	67	32765	11.13	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	152723	10.78	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	300519m	11.58	PPBV		
7) PROPYLENE	1.628	41	90576	10.32	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	252062	10.91	PPBV		100
9) FREON 114	1.718	85	303615	11.35	PPBV		100
10) CHLOROMETHANE	1.689	52	40254	10.81	PPBV		98
11) VINYL CHLORIDE	1.750	62	140045	10.62	PPBV		99
12) 1,3-BUTADIENE	1.785	54	109649	10.53	PPBV		99
13) N-BUTANE	1.801	43	194903	11.06	PPBV		100
14) BROMOMETHANE	1.859	94	110308	10.79	PPBV		99
15) CHLOROETHANE	1.907	64	72483	10.13	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	268652	10.84	PPBV		99
17) ACETONITRILE	1.997	41	115239	9.36	PPBV		99
18) ACROLEIN	2.036	56	62655	10.71	PPBV		98
19) FREON 123	2.049	83	270679	10.84	PPBV		99
20) FREON 123A	2.065	117	148778	10.06	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.129	101	311135	11.04	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	290247	12.15	PPBV		99
23) ACETONE	2.071	58	70408	10.78	PPBV		100
24) PENTANE	2.242	42	134988	10.43	PPBV		100
25) IODOMETHANE	2.303	142	287484	11.08	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	117061	10.89	PPBV		99
27) CARBON DISULFIDE	2.464	76	316603	10.38	PPBV		98
28) ETHANOL	1.933	45	64897	10.20	PPBV		100
29) BROMOETHENE	2.004	106	107141	10.44	PPBV		99
30) ACRYLONITRILE	2.209	52	100564	10.95	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	108156	10.27	PPBV		97
32) 3-CHLOROPROPENE	2.409	76	60492	10.52	PPBV		99
33) FREON 113	2.460	151	185131	11.44	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	2.689	96	122177	10.33	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.338	59	321878	10.78	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	372091	11.06	PPBV		100
37) TETRAHYDROFURAN	3.467	72	61873	11.34	PPBV		99
38) HEXANE	3.242	57	241359	10.65	PPBV		100
39) VINYL ACETATE	2.827	86	34923	10.80	PPBV		97
40) 1,1-DICHLOROETHANE	2.759	63	247364	10.82	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	65125	10.54	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	133909	10.92	PPBV		100
43) DIISOPROPYL ETHER	3.245	59	71425	11.12	PPBV		96
44) ETHYL ACETATE	3.248	61	46105	10.62	PPBV		90
45) METHYL ACRYLATE	3.235	55	298658	10.90	PPBV	#	100
46) CHLOROFORM	3.261	83	268569	11.35	PPBV		100
47) 2,4-DIMETHYLPENTANE	3.743	57	287870	11.35	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279200	11.20	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	286618	11.10	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	205457	11.17	PPBV	100
51)	BENZENE	4.126	78	392045	10.80	PPBV	100
53)	CYCLOHEXANE	4.335	84	178042	11.13	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.586	71	92136	11.55	PPBV	99
55)	TRICHLOROETHENE	5.013	95	177553	10.41	PPBV	100
56)	1,2-DICHLOROPROPANE	4.782	63	163448	10.84	PPBV	100
57)	DIBROMOMETHANE	4.743	174	150387	10.35	PPBV	99
58)	ETHYL ACRYLATE	4.901	55	376913	11.17	PPBV	99
59)	BROMODICHLOROMETHANE	4.962	83	300258	10.90	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	770282	10.43	PPBV	100
61)	1,4-DIOXANE	5.023	88	94601	11.72	PPBV	98
62)	HEPTANE	5.422	43	261506	10.72	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	152007	11.09	PPBV	99
64)	METHYL ISOBUTYL KETONE	6.039	58	154590	10.57	PPBV	100
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	233811	10.11	PPBV	100
66)	TOLUENE	7.132	91	488543	11.25	PPBV	99
67)	1,3-DICHLOROPROPANE	7.190	76	246988	11.34	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	217661	10.42	PPBV	100
69)	1,1,2-TRICHLOROETHANE	6.766	83	141620	11.44	PPBV	99
70)	2-HEXANONE	7.695	58	209349	10.26	PPBV	99
71)	ETHYL METHACRYLATE	7.830	69	256728	11.23	PPBV	99
72)	TETRACHLOROETHENE	8.846	164	180607	11.40	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.656	129	297263	11.82	PPBV	99
74)	1,2-DIBROMOETHANE	8.000	107	263017	11.75	PPBV	100
75)	OCTANE	8.994	43	371823	11.38	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	217186	12.09	PPBV	100
78)	CHLOROBENZENE	10.042	112	397219	11.61	PPBV	100
79)	ETHYLBENZENE	10.923	91	659125	11.76	PPBV	100
80)	M,P-XYLENE	11.347	91	1021629	22.50	PPBV	99
81)	O-XYLENE	12.280	91	524115	11.89	PPBV	100
82)	STYRENE	12.068	104	383070	11.59	PPBV	100
83)	NONANE	13.402	43	389550	11.35	PPBV	100
84)	BROMOFORM	11.158	173	265221	12.55	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	376337	11.92	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	296228	11.97	PPBV	100
88)	ISOPROPYLBENZENE	13.788	120	196063	11.70	PPBV	100
89)	BROMOBENZENE	13.653	77	368714	11.46	PPBV	99
90)	2-CHLOROTOLUENE	14.785	126	175998	11.26	PPBV	100
91)	N-PROPYLBENZENE	15.122	120	204116	11.48	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	742534	11.28	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	622476	11.36	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.174	118	271625	10.00	PPBV	99
95)	TERT-BUTYLBENZENE	16.498	134	152633	11.43	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	633879	11.67	PPBV	99
97)	BENZYL CHLORIDE	16.598	91	464197	10.58	PPBV	99
98)	M-DICHLOROBENZENE	16.569	146	406824	10.91	PPBV	100
99)	P-DICHLOROBENZENE	16.666	146	408776	11.12	PPBV	100
100)	O-DICHLOROBENZENE	16.987	146	388114	11.22	PPBV	100
101)	SEC-BUTYLBENZENE	16.813	134	187876	11.81	PPBV	100
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	621174	11.41	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.013	134	206409	11.68	PPBV	100
104)	N-BUTYLBENZENE	17.379	134	197029	11.69	PPBV	100
105)	HEXACHLOROETHANE	17.559	117	224249	10.80	PPBV	100
106)	HEXACHLOROBUTADIENE	18.633	225	277087	11.26	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.315	180	362853	12.29	PPBV	100
108)	NAPHTHALENE	18.363	128	837609	12.65	PPBV	99
110)	TVHC as equiv Pentane	2.242	TIC	634578	10.37	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

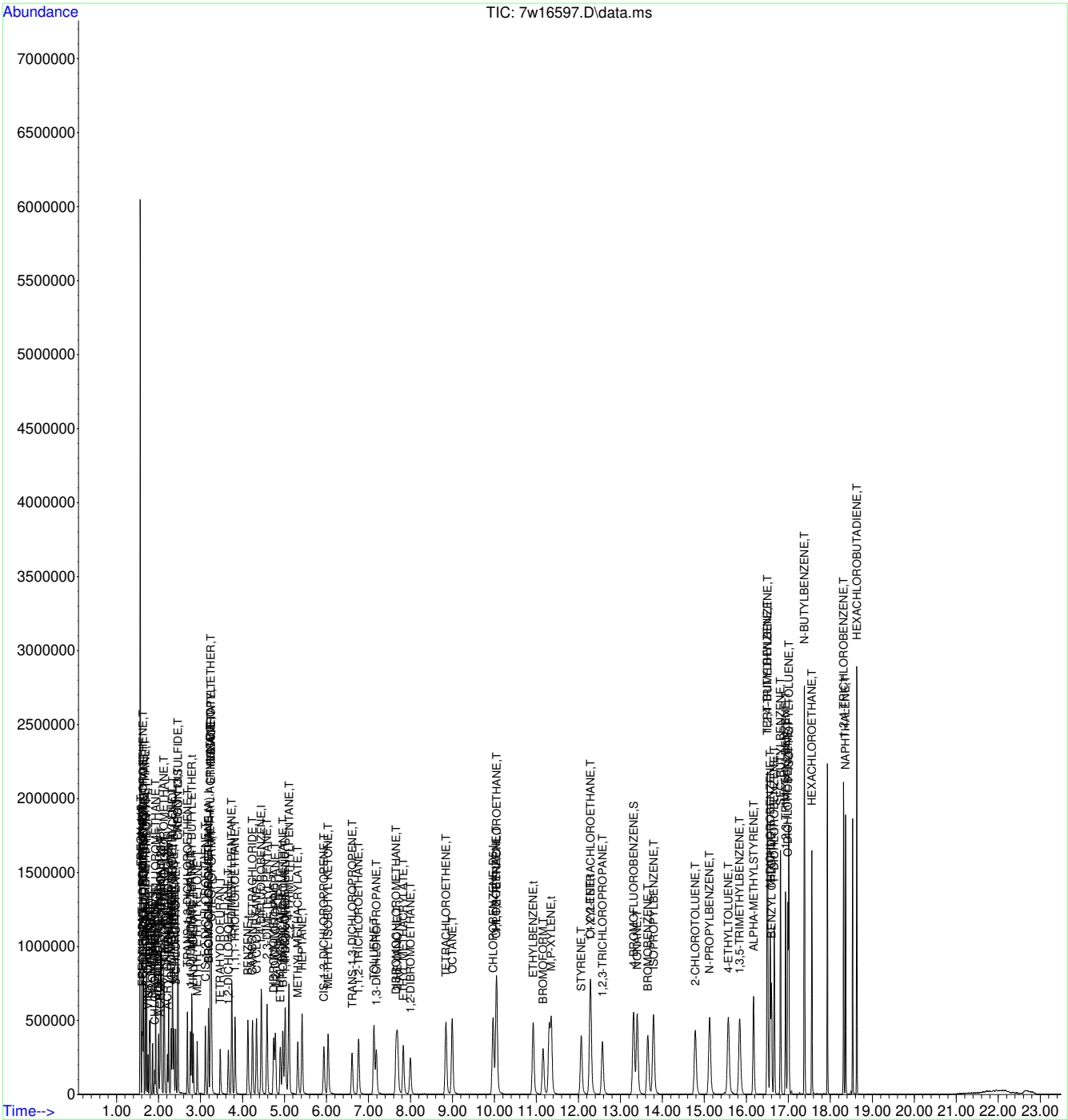
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

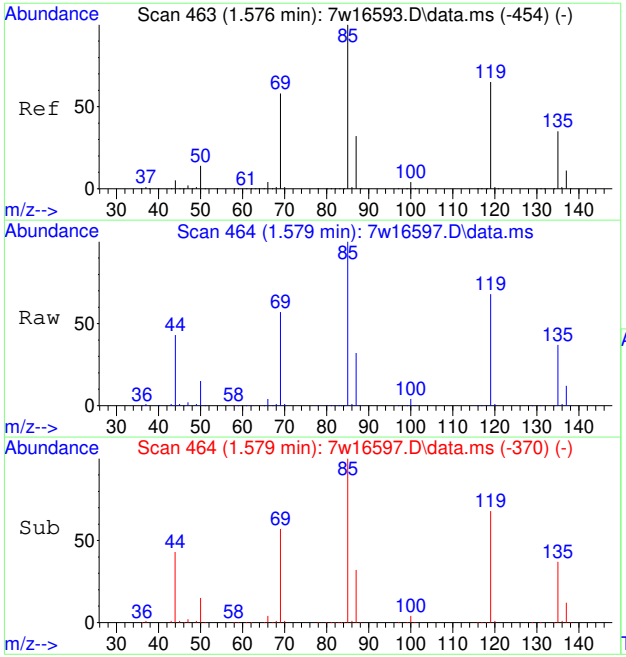
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

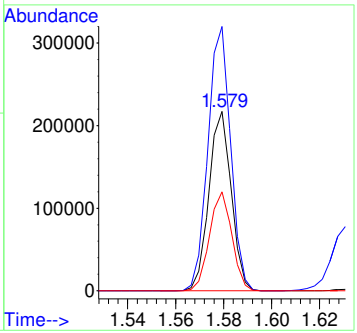


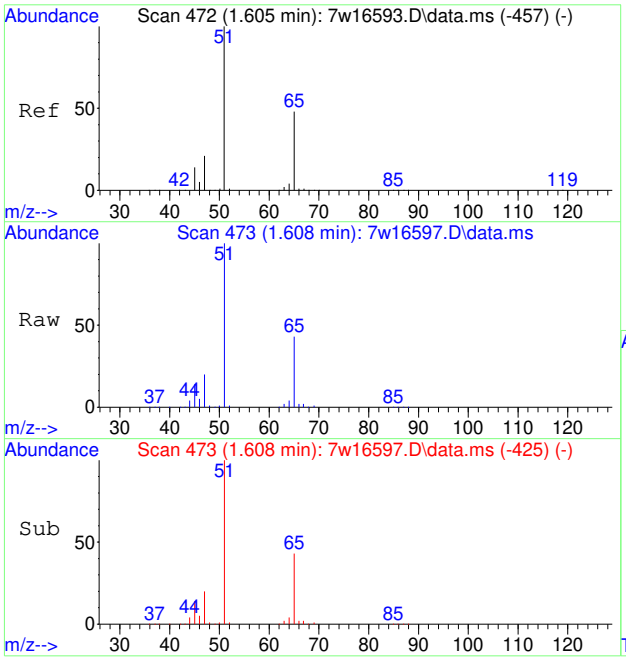


#2
FREON 115
Concen: 10.68 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:119 Resp: 140448

Ion	Ratio	Lower	Upper
119	100		
85	149.3	104.4	193.8
135	55.3	38.6	71.8

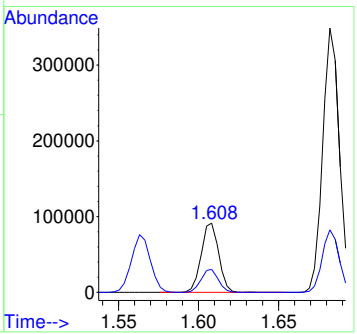


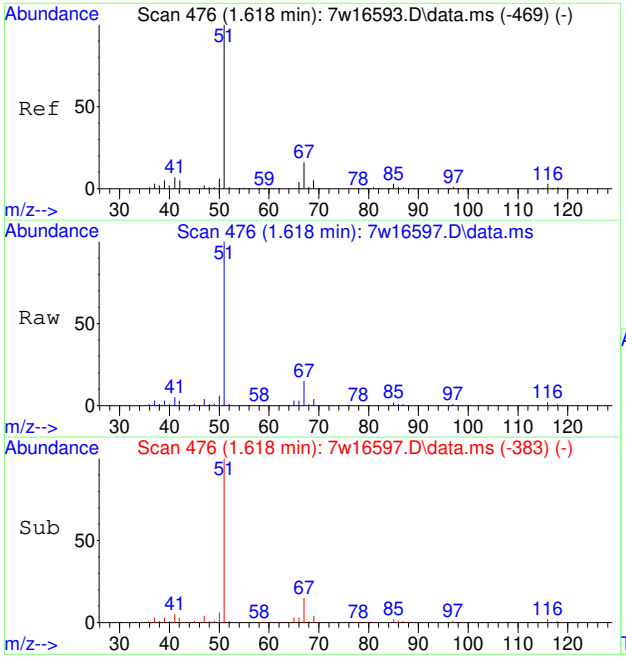


#3
FREON 152A
Concen: 10.25 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 69502

Ion	Ratio	Lower	Upper
65	100		
45	32.5	23.0	42.8

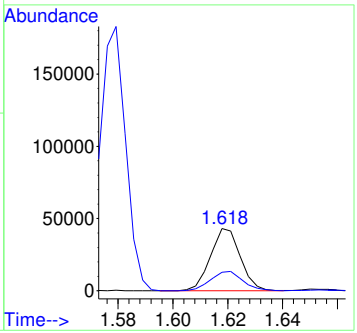


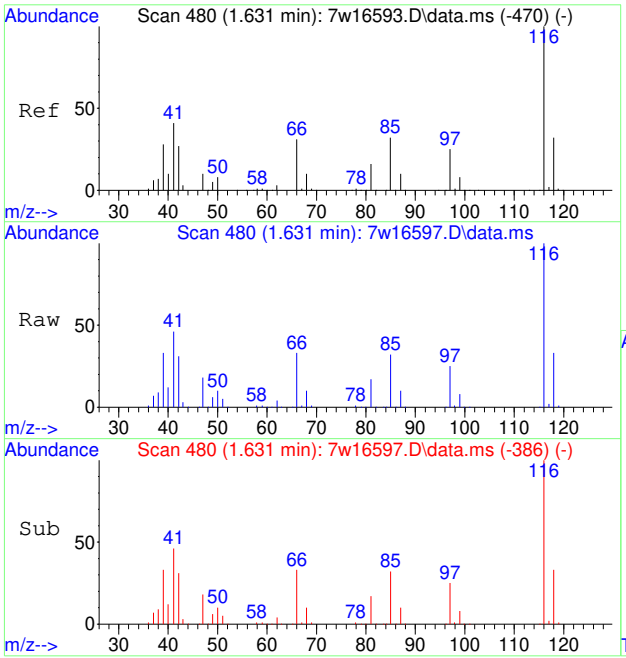


#4
CHLORODIFLUOROMETHANE
Concen: 11.13 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 32765

Ion	Ratio	Lower	Upper
67	100		
69	33.8	25.3	47.1

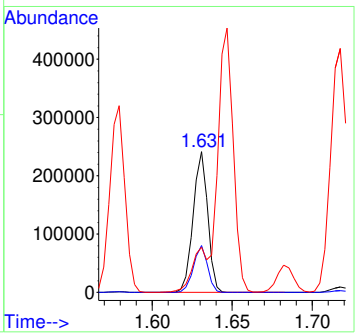


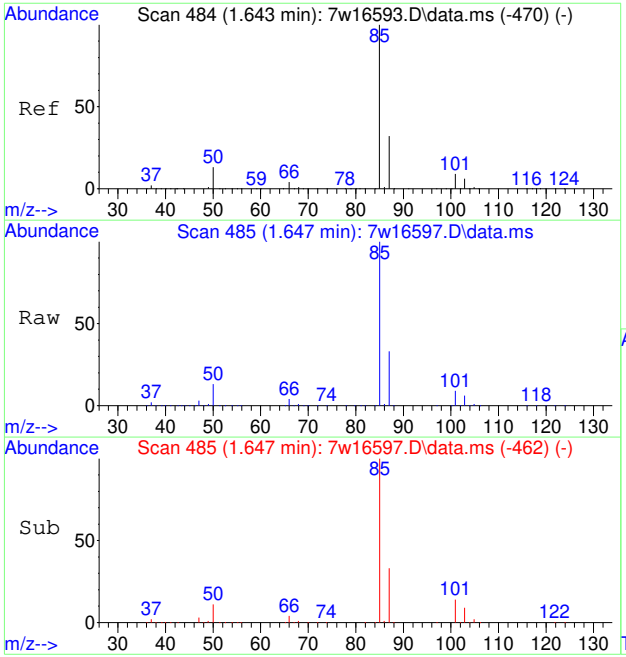


#5
CHLOROTRIFLUOROETHENE
Concen: 10.78 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:116 Resp: 152723

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	229.5	152.4	283.0

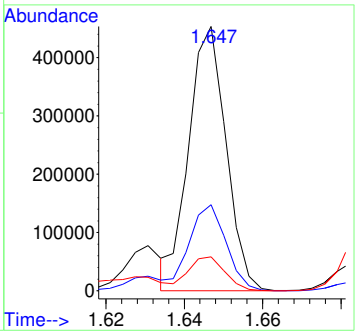


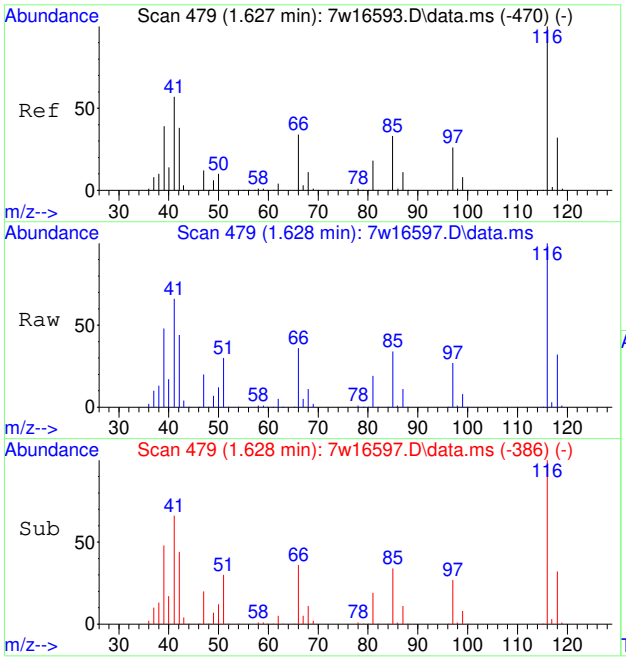


#6
DICHLORODIFLUOROMETHANE
Concen: 11.58 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 300519

Ion	Ratio	Lower	Upper
85	100		
87	37.8	23.0	42.6
50	21.9	13.5	25.1

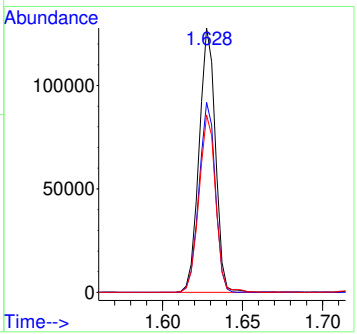


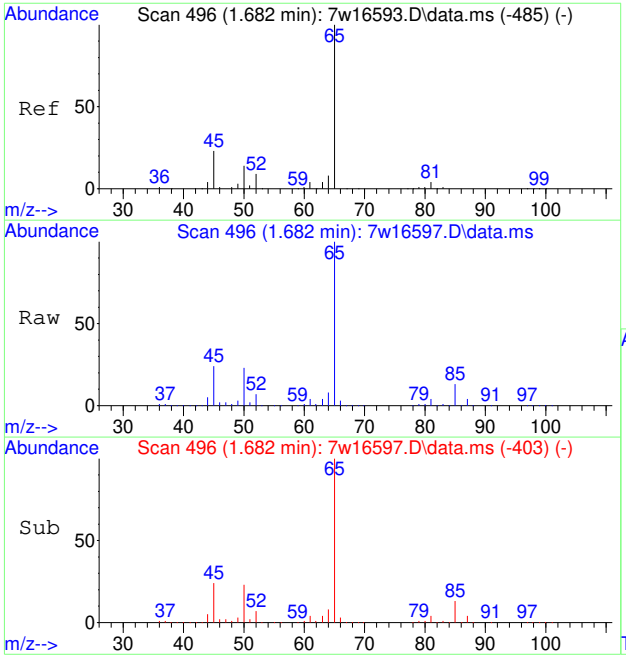


#7
PROPYLENE
Concen: 10.32 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 90576

Ion	Ratio	Lower	Upper
41	100		
39	71.5	50.5	93.7
42	68.3	47.0	87.4

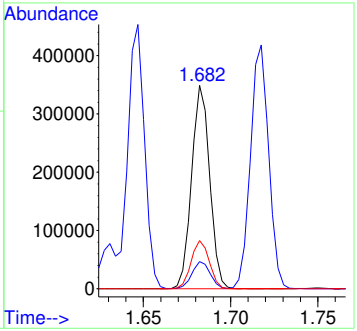


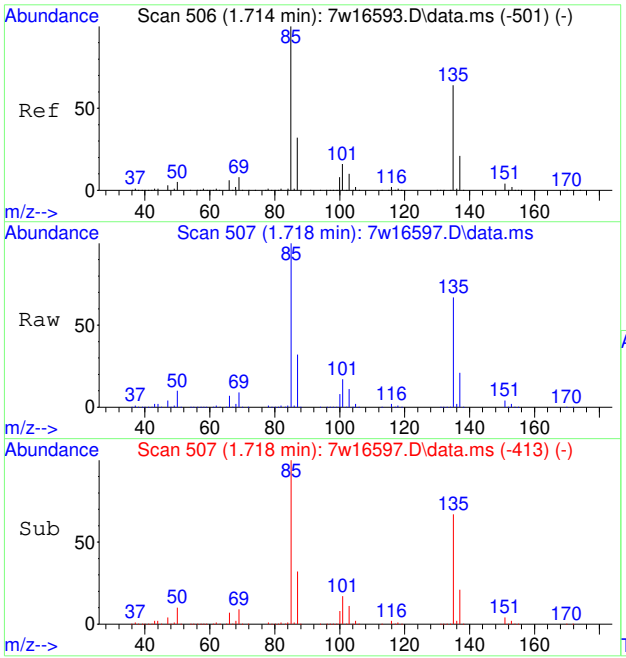


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.91 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 252062

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.4	17.4
45	23.9	16.9	31.3

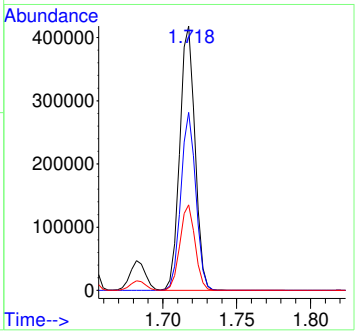


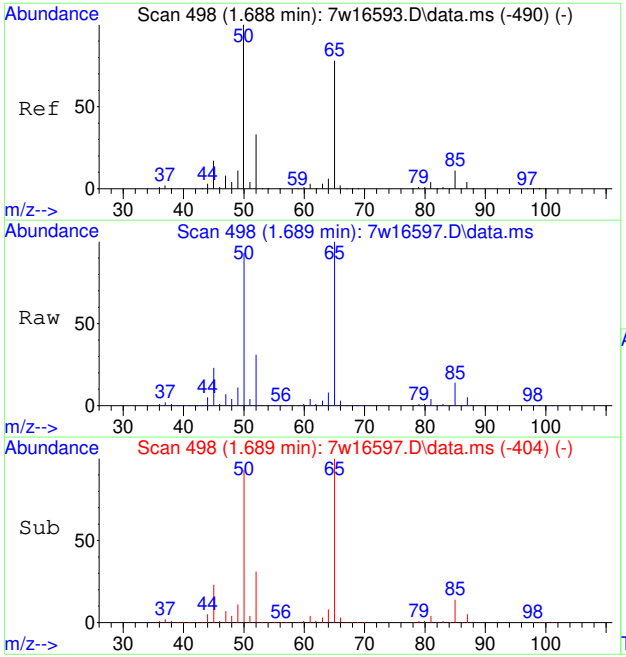


#9
FREON 114
Concen: 11.35 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 303615

Ion	Ratio	Lower	Upper
85	100		
135	66.1	46.1	85.7
87	32.2	22.6	42.0

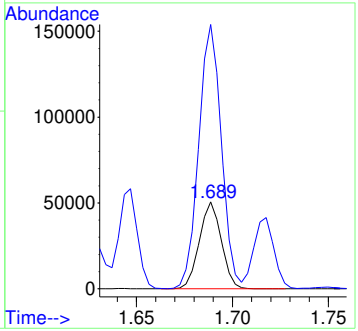


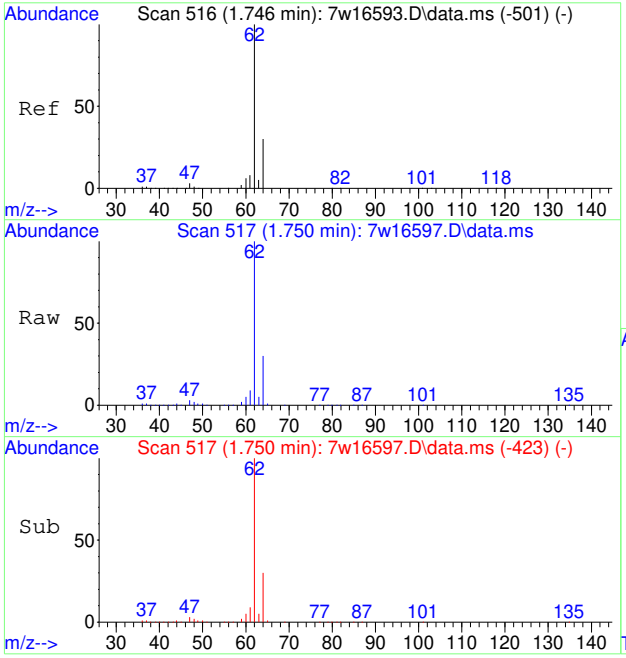


#10
CHLOROMETHANE
Concen: 10.81 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 40254

Ion	Ratio	Lower	Upper
52	100		
50	317.7	225.6	419.0

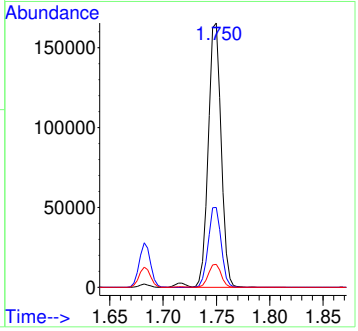


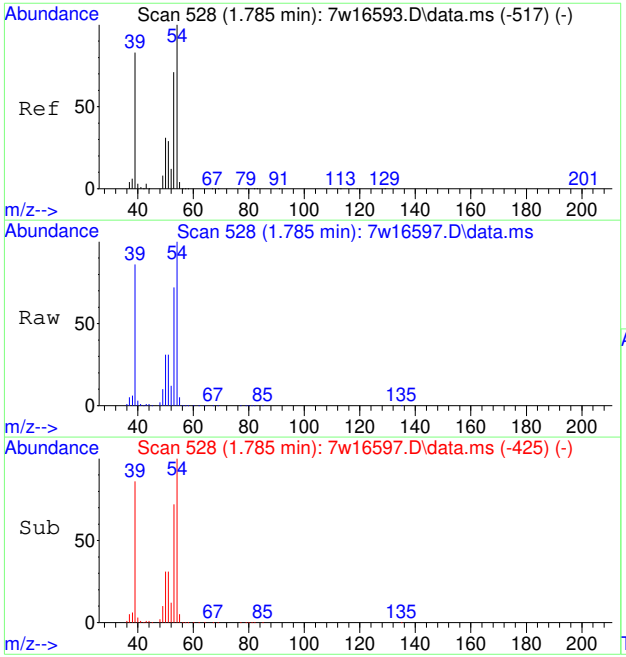


#11
VINYL CHLORIDE
Concen: 10.62 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 140045

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.8	5.7	10.5

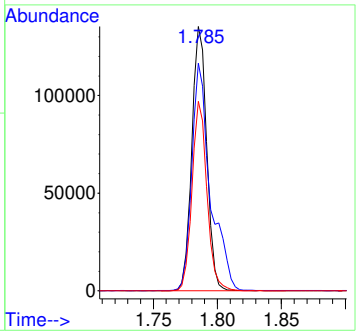


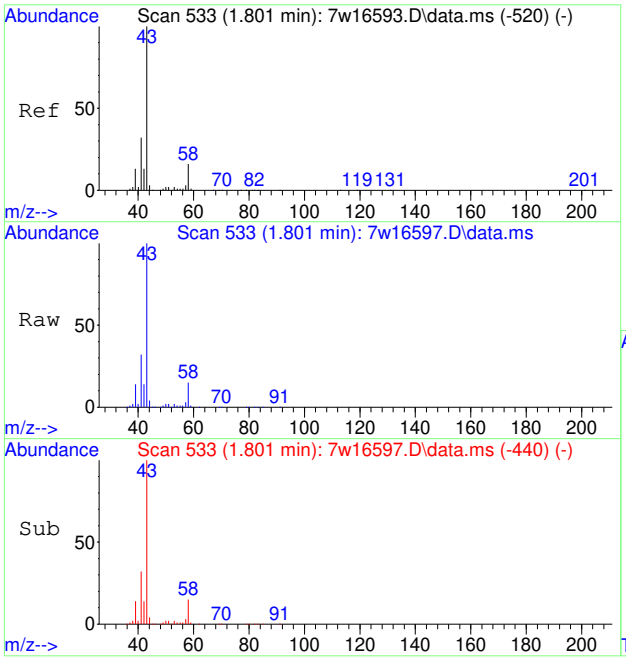


#12
1,3-BUTADIENE
Concen: 10.53 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 54 Resp: 109649

Ion	Ratio	Lower	Upper
54	100		
39	107.1	78.4	138.4
53	71.9	40.9	100.9

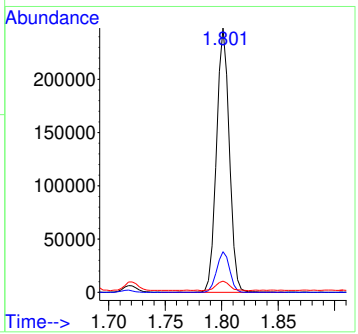


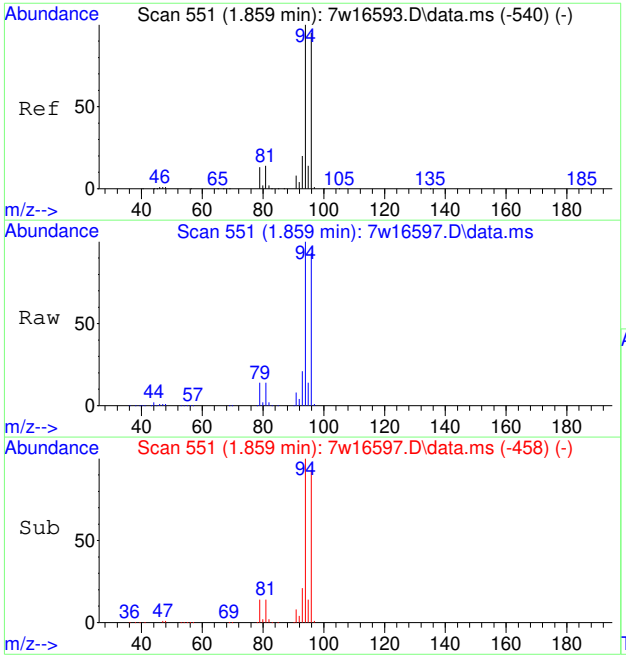


#13
N-BUTANE
Concen: 11.06 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 194903

Ion	Ratio	Lower	Upper
43	100		
58	15.6	11.0	20.4
44	3.8	2.6	4.8

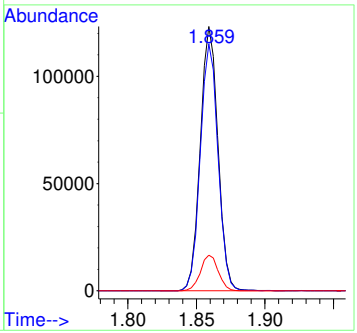


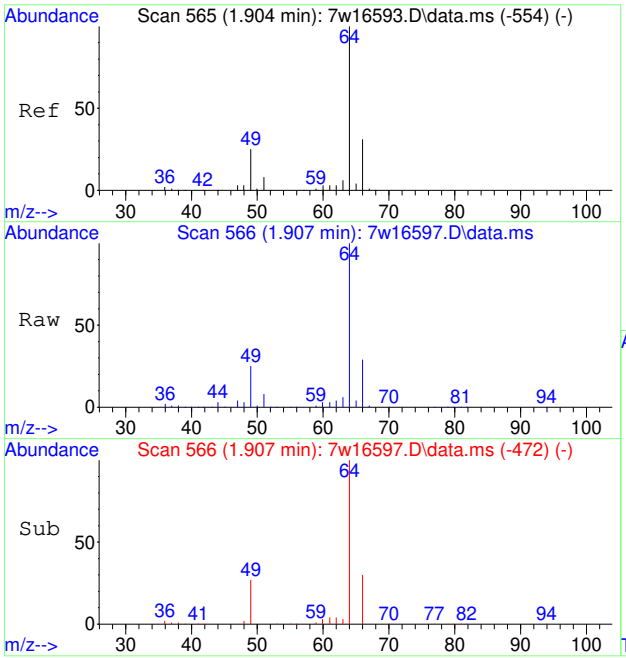


#14
BROMOMETHANE
Concen: 10.79 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 94 Resp: 110308

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.6	9.9	18.3

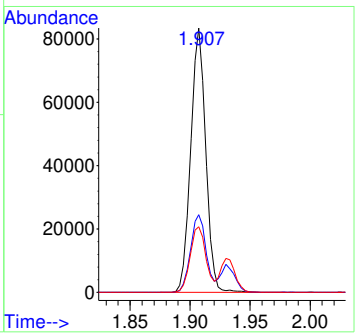


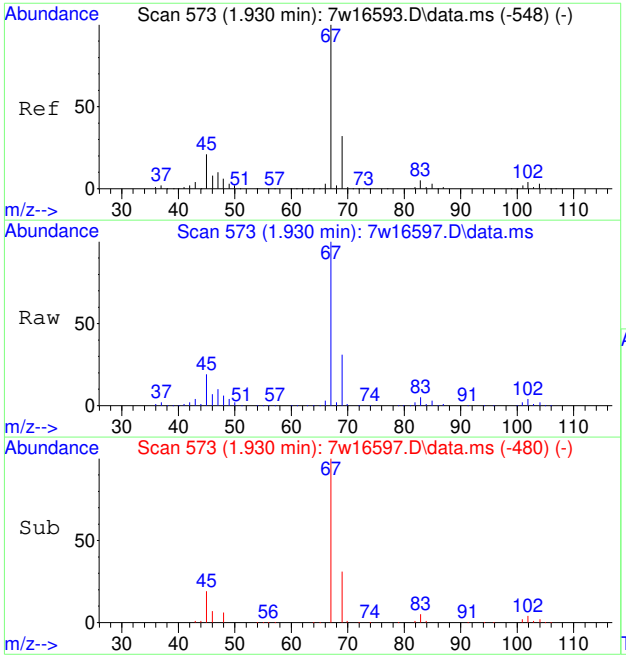


#15
CHLOROETHANE
Concen: 10.13 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 64 Resp: 72483

Ion	Ratio	Lower	Upper
64	100		
66	40.6	21.5	39.9#
49	26.3	19.0	35.4

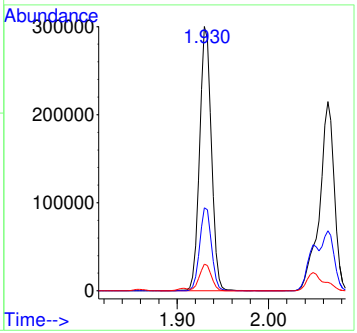


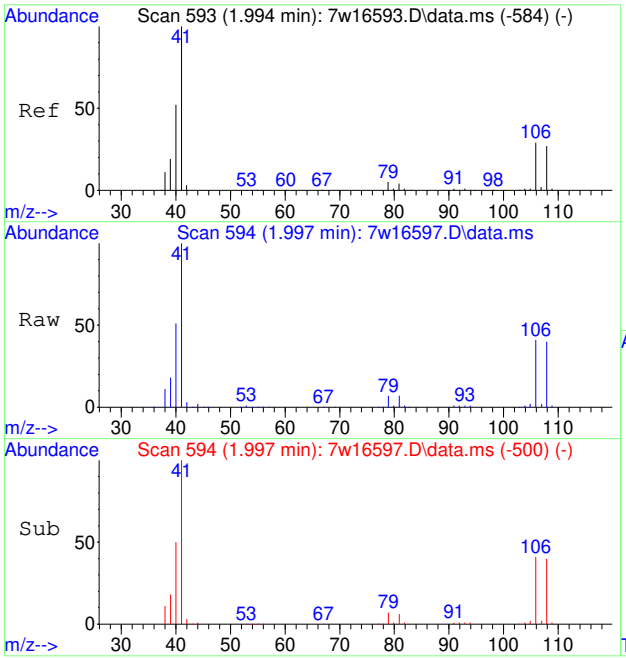


#16
DICHLOROFLUOROMETHANE
Concen: 10.84 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 268652

Ion	Ratio	Lower	Upper
67	100		
69	31.6	21.8	40.6
47	11.1	8.0	14.8

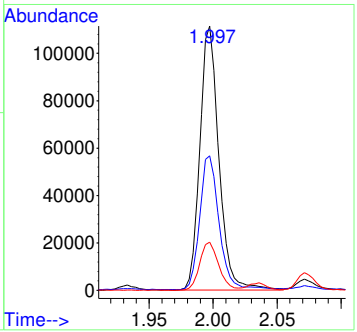


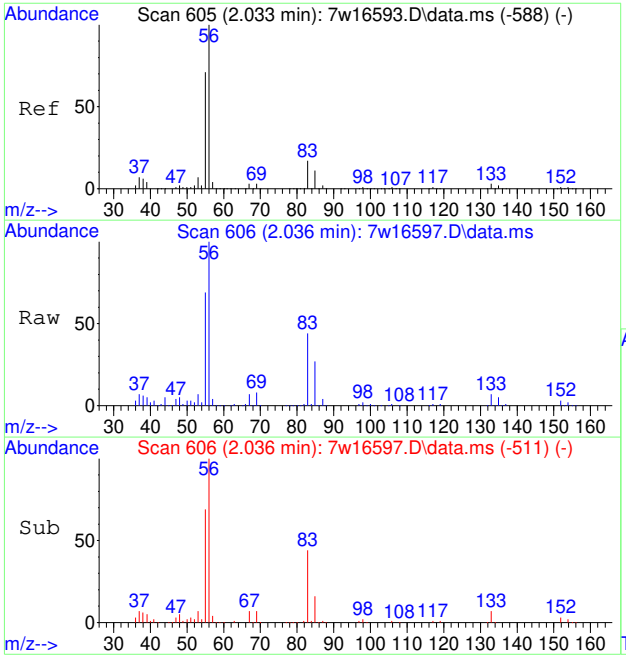


#17
ACETONITRILE
Concen: 9.36 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 115239

Ion	Ratio	Lower	Upper
41	100		
40	51.9	36.7	68.1
39	18.2	13.1	24.3

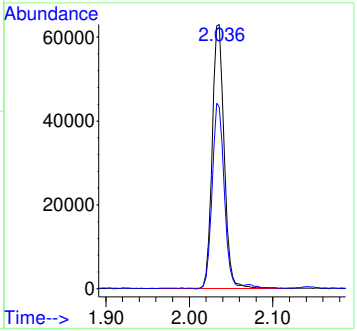


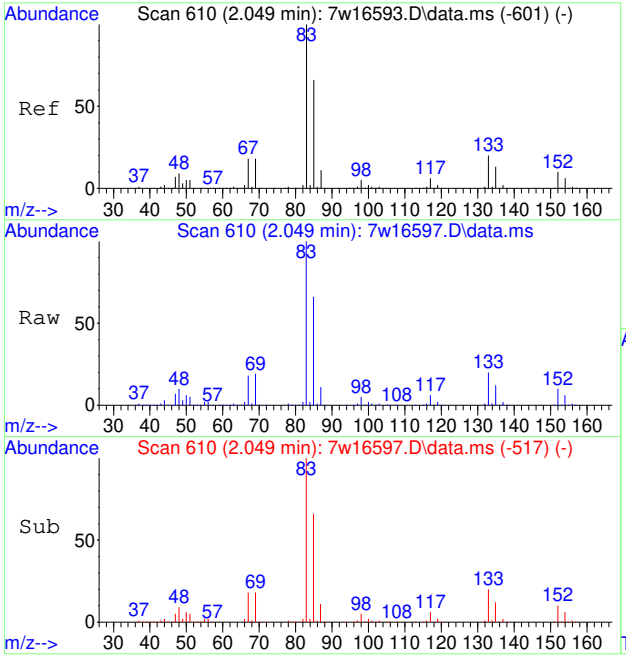


#18
ACROLEIN
Concen: 10.71 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 56 Resp: 62655

Ion	Ratio	Lower	Upper
56	100		
55	71.8	48.9	90.7

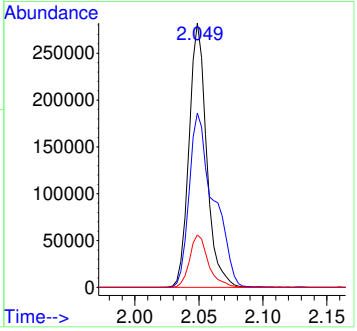


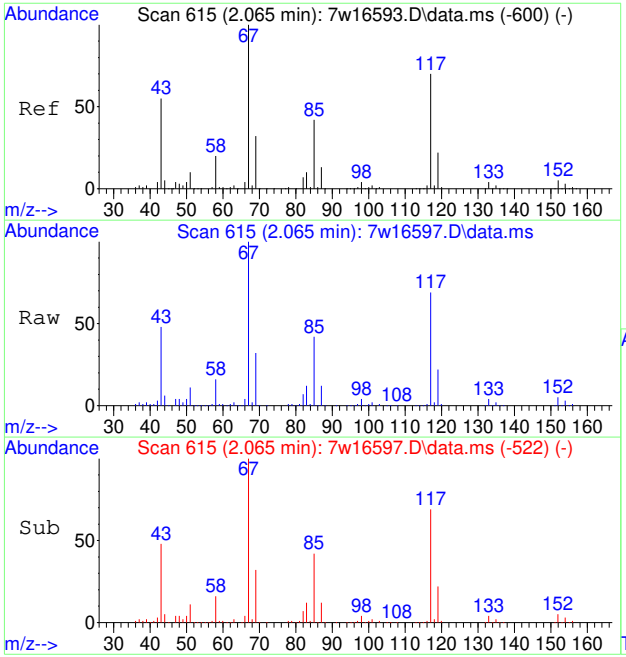


#19
FREON 123
Concen: 10.84 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 270679

Ion	Ratio	Lower	Upper
83	100		
85	91.4	64.9	120.5
133	21.2	14.7	27.3

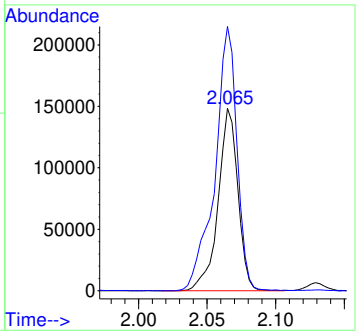


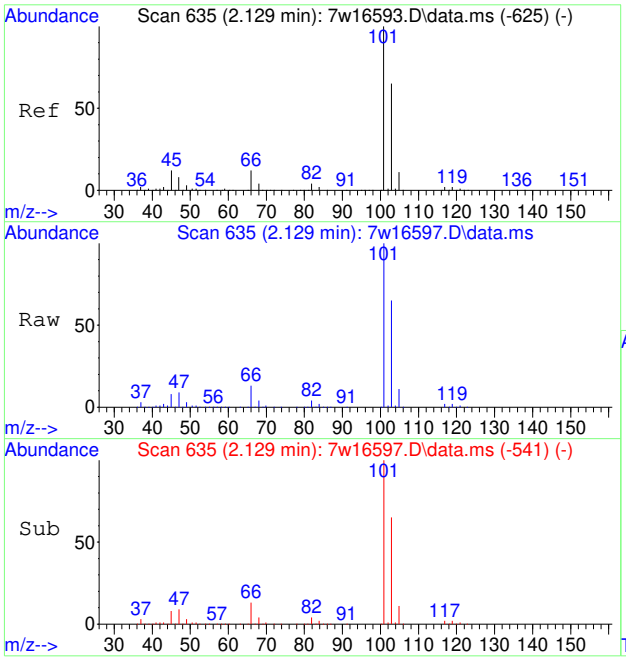


#20
FREON 123A
Concen: 10.06 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 148778

Ion	Ratio	Lower	Upper
117	100		
67	161.4	111.3	206.7

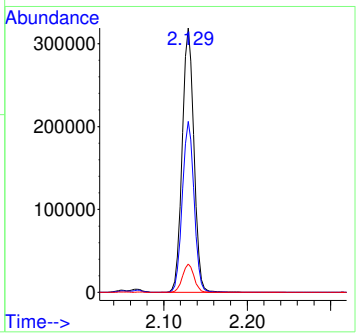


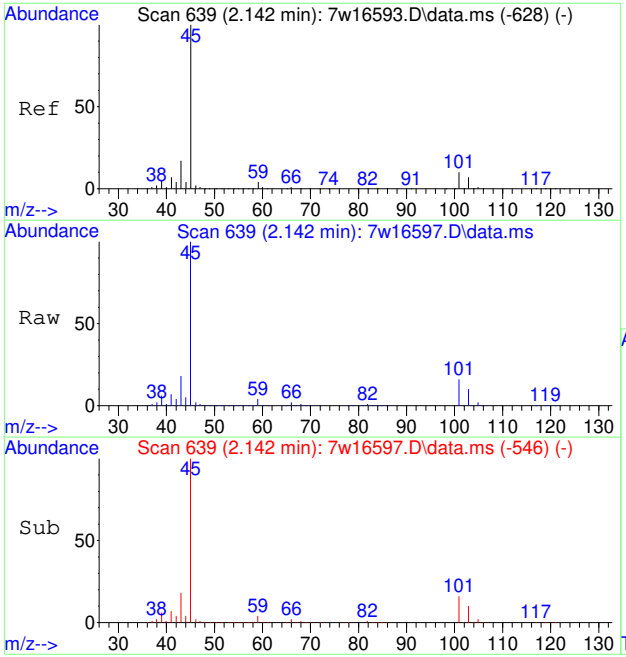


#21
TRICHLOROFLUOROMETHANE
Concen: 11.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:101 Resp: 311135

Ion	Ratio	Lower	Upper
101	100		
103	64.7	45.2	84.0
105	10.6	7.3	13.5

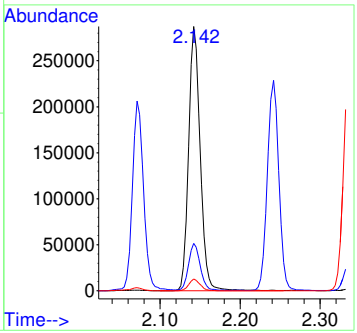


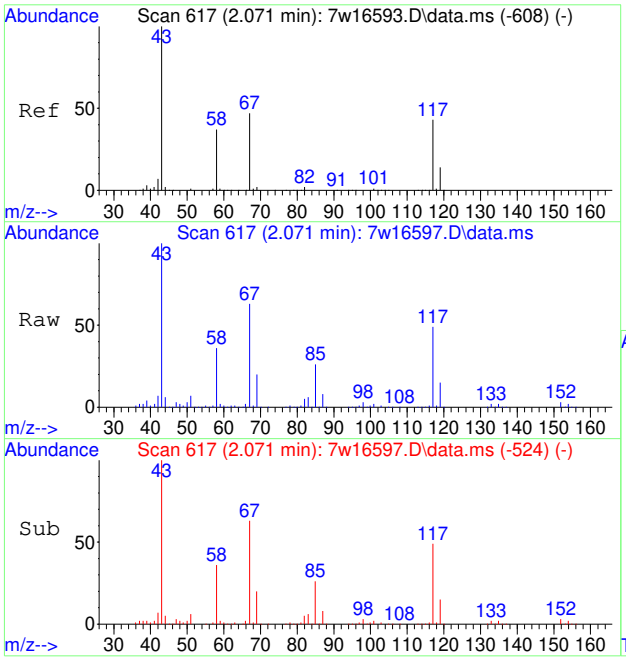


#22
ISOPROPYL ALCOHOL
Concen: 12.15 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 290247

Ion	Ratio	Lower	Upper
45	100		
43	18.3	12.5	23.3
59	4.4	3.1	5.7

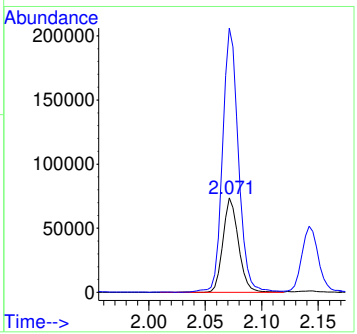


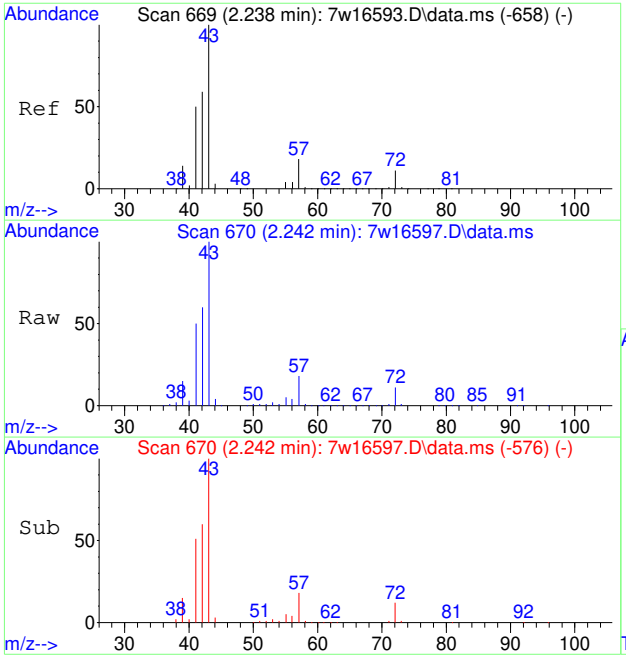


#23
ACETONE
Concen: 10.78 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 70408

Ion	Ratio	Lower	Upper
58	100		
43	284.2	198.6	368.8

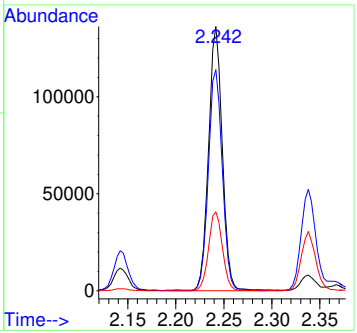


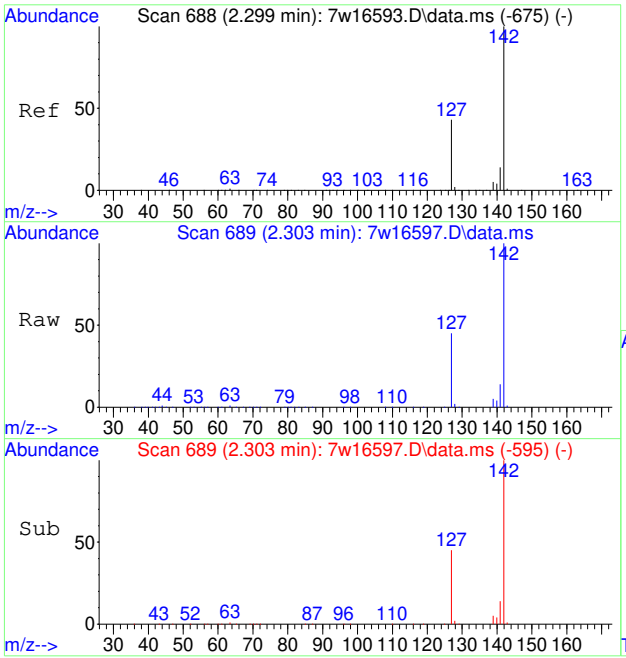


#24
PENTANE
Concen: 10.43 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 42 Resp: 134988

Ion	Ratio	Lower	Upper
42	100		
41	85.4	59.8	111.0
57	30.5	21.1	39.1

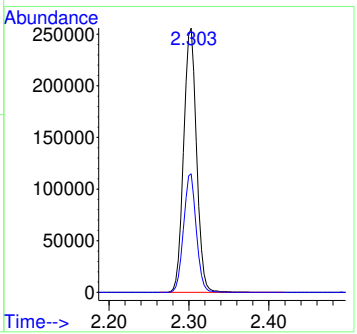


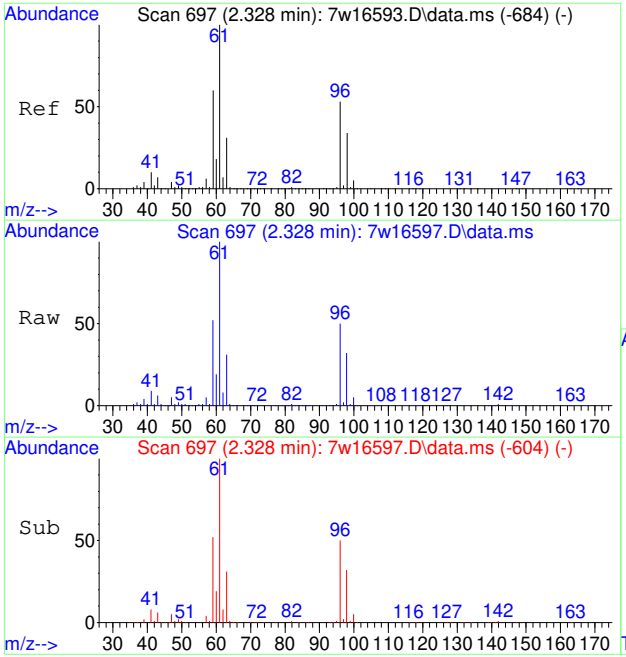


#25
IODOMETHANE
Concen: 11.08 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:142 Resp: 287484

Ion	Ratio	Lower	Upper
142	100		
127	44.2	30.6	56.8

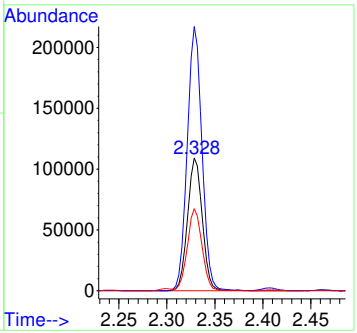


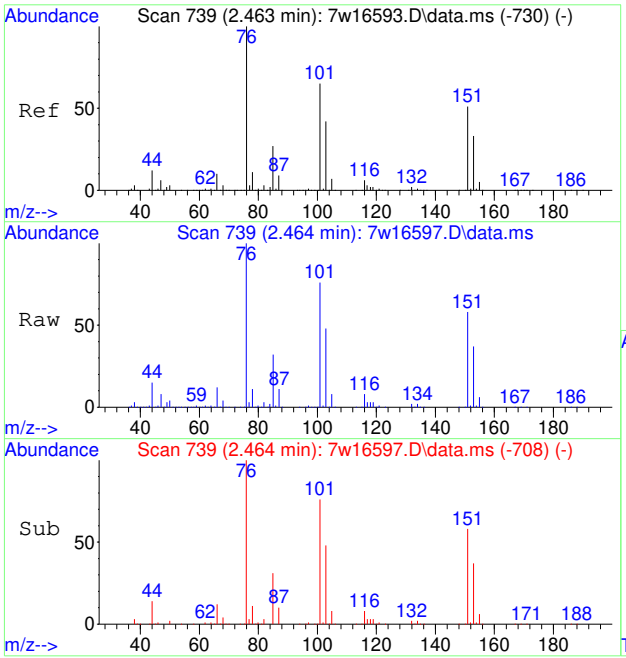


#26
1,1-DICHLOROETHYLENE
Concen: 10.89 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 117061

Ion	Ratio	Lower	Upper
96	100		
61	198.6	138.3	256.8
63	62.7	44.2	82.0

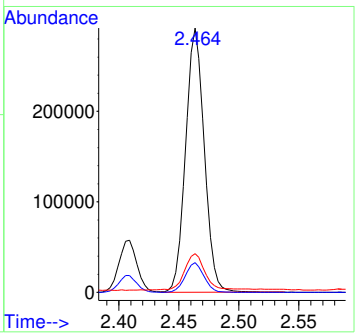


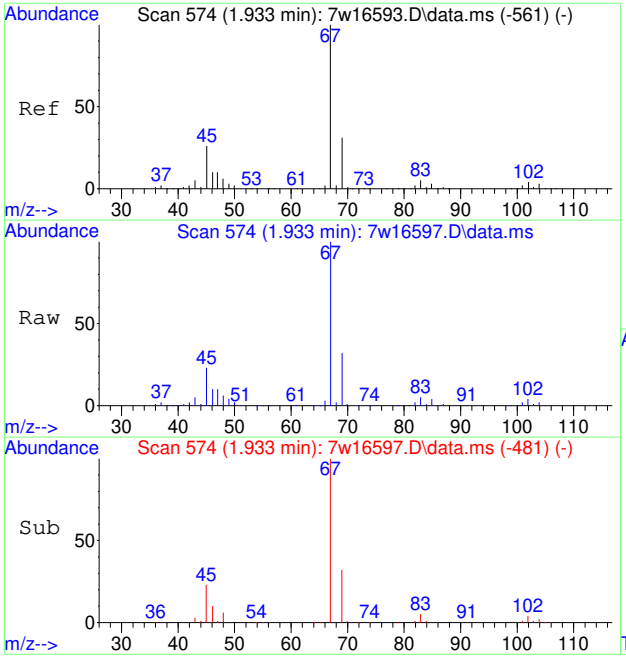


#27
CARBON DISULFIDE
Concen: 10.38 PPBV
RT: 2.464 min Scan# 739
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 316603

Ion	Ratio	Lower	Upper
76	100		
78	11.2	7.7	14.3
44	15.7	10.2	19.0

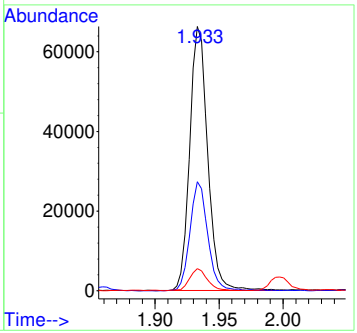


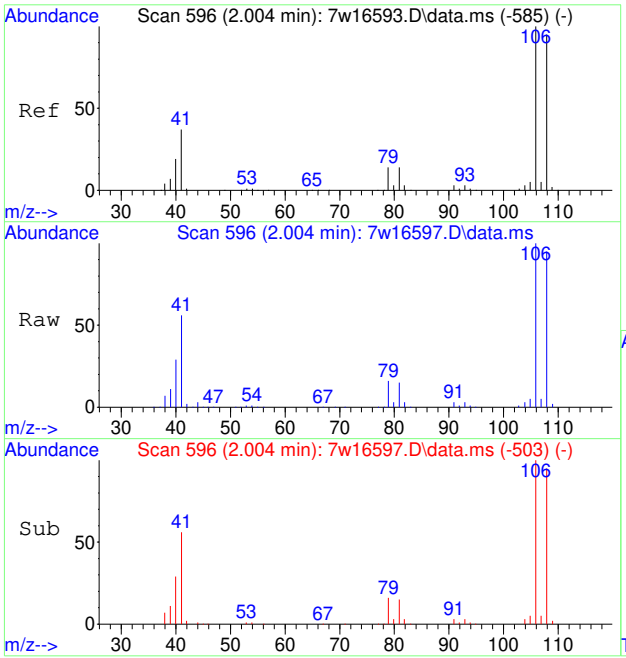


#28
ETHANOL
Concen: 10.20 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 64897

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.0	53.9
42	8.0	5.7	10.5

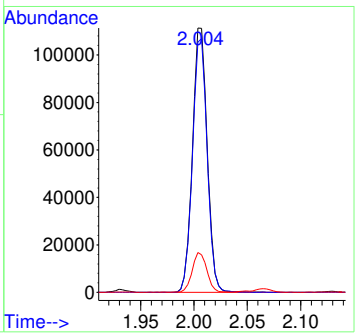


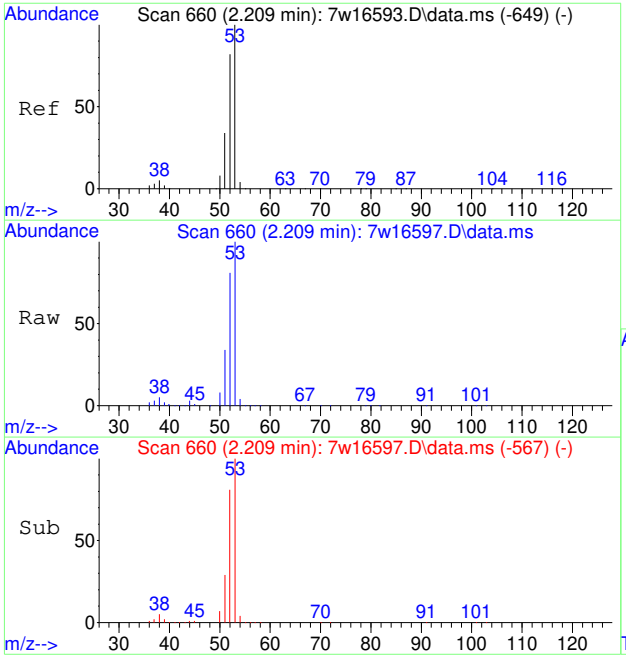


#29
BROMOETHENE
Concen: 10.44 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:106 Resp: 107141

Ion	Ratio	Lower	Upper
106	100		
108	95.8	66.1	122.7
81	15.1	10.6	19.8

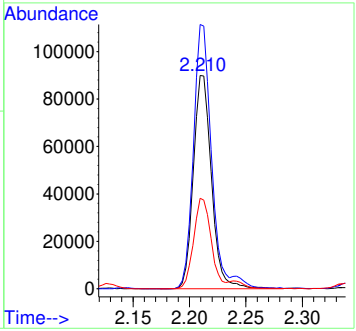


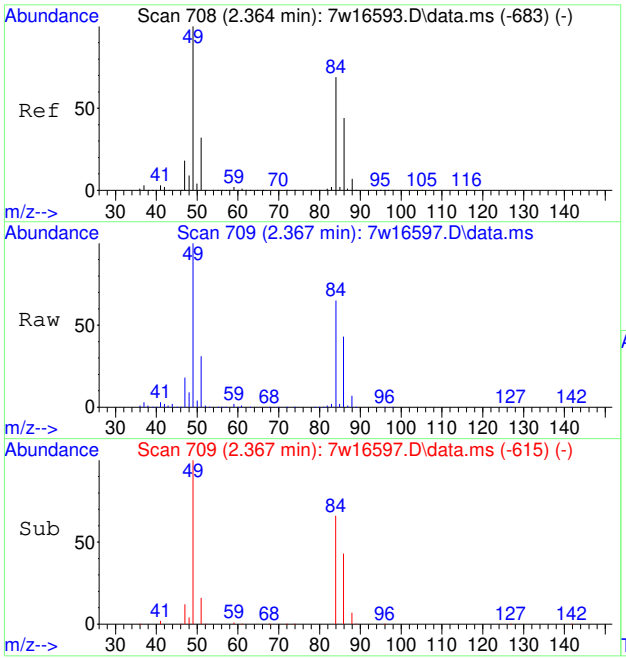


#30
ACRYLONITRILE
Concen: 10.95 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 100564

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.5	31.3	58.1

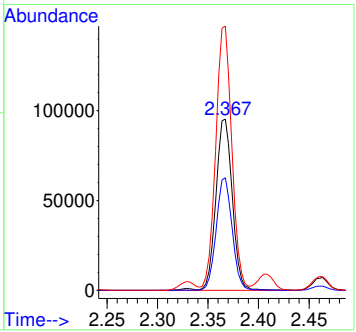


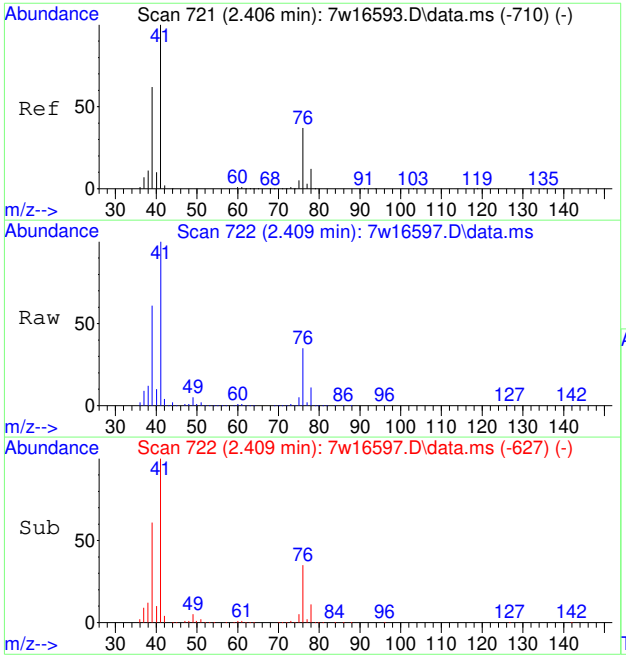


#31
METHYLENE CHLORIDE
Concen: 10.27 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 108156

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.3	82.3
49	150.9	109.5	203.3

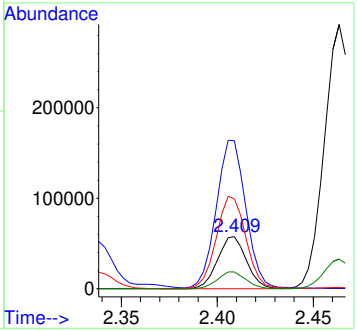


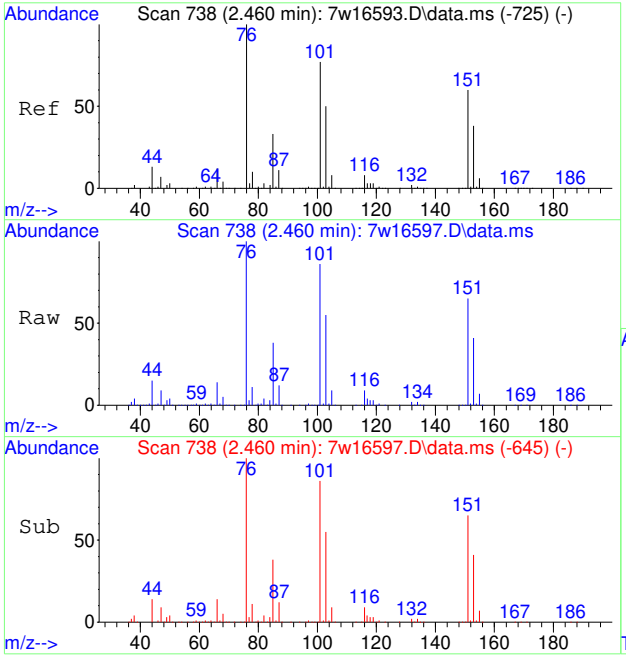


#32
3-CHLOROPROPENE
Concen: 10.52 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 60492

Ion	Ratio	Lower	Upper
76	100		
41	291.7	202.6	376.2
39	181.6	125.8	233.6
78	32.4	23.1	42.9

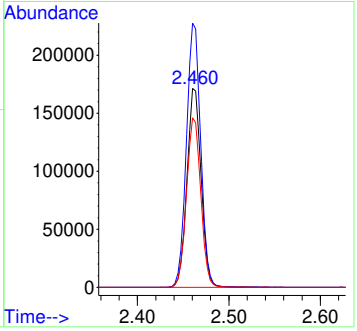


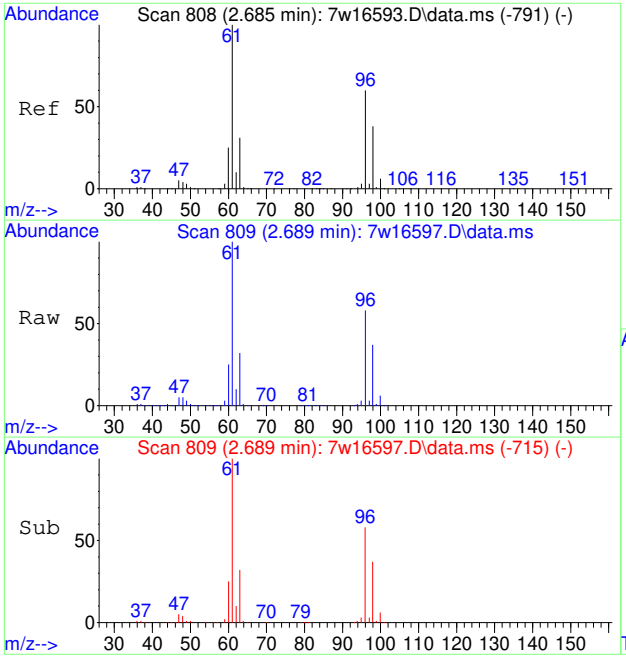


#33
FREON 113
Concen: 11.44 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:151 Resp: 185131

Ion	Ratio	Lower	Upper
151	100		
101	133.4	93.1	172.9
103	85.8	60.1	111.5

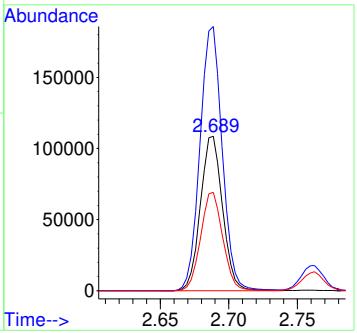


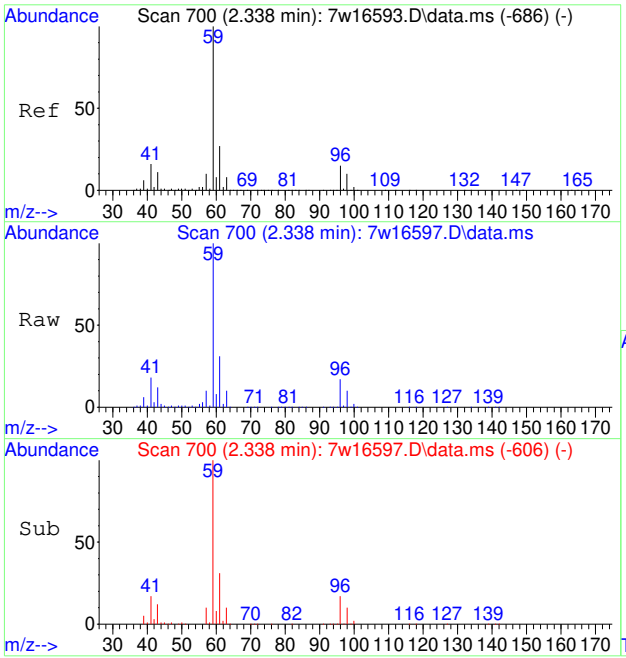


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.33 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 122177

Ion	Ratio	Lower	Upper
96	100		
61	171.2	119.6	222.0
98	63.6	44.9	83.5

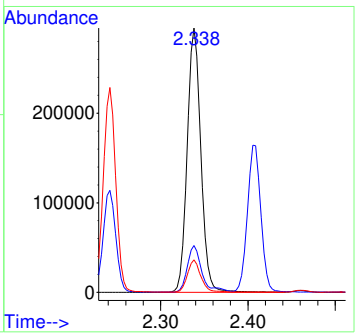


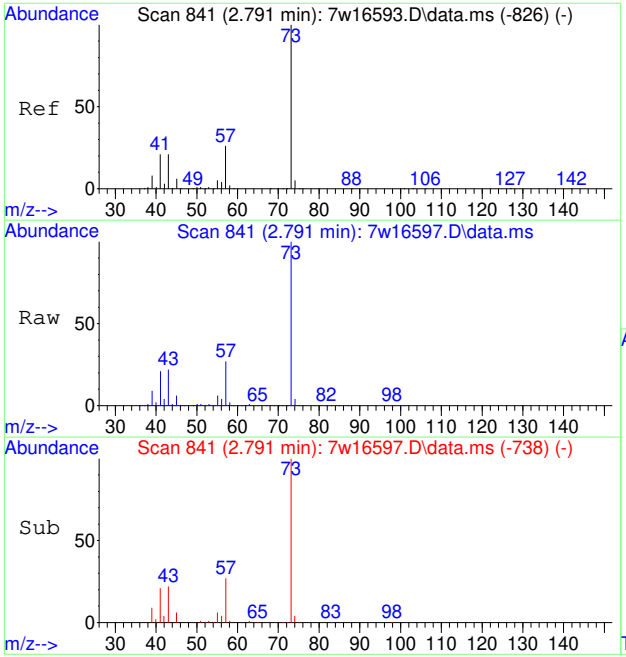


#35
TERTIARY BUTYL ALCOHOL
Concen: 10.78 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 321878

Ion	Ratio	Lower	Upper
59	100		
41	18.6	12.9	23.9
43	12.1	8.0	14.8

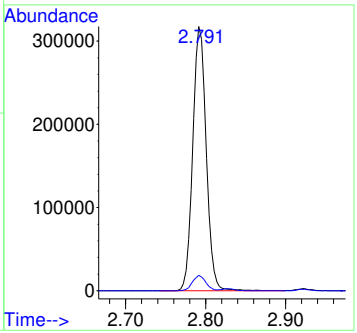


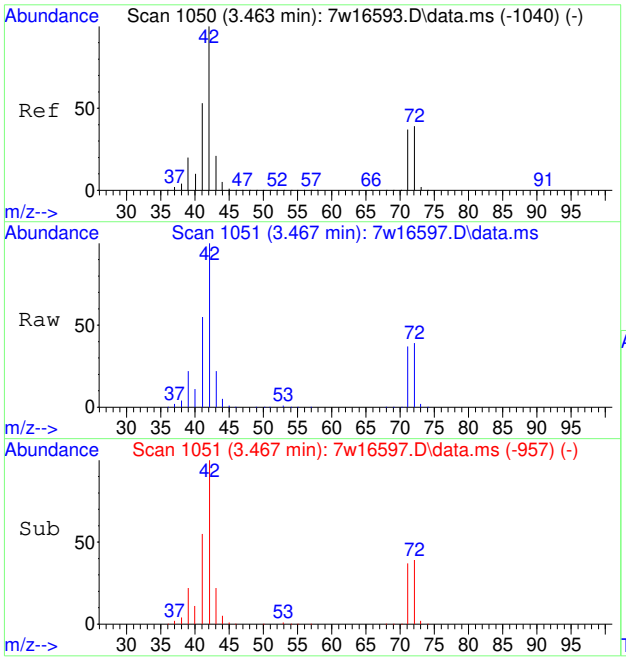


#36
METHYL TERTIARY BUTYL ETHER
Concen: 11.06 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 73 Resp: 372091

Ion	Ratio	Lower	Upper
73	100		
45	5.8	4.1	7.5

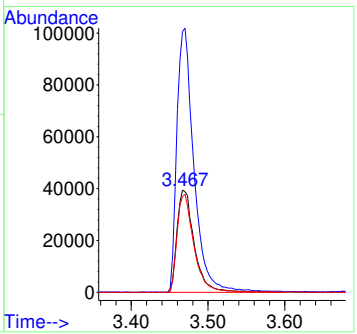


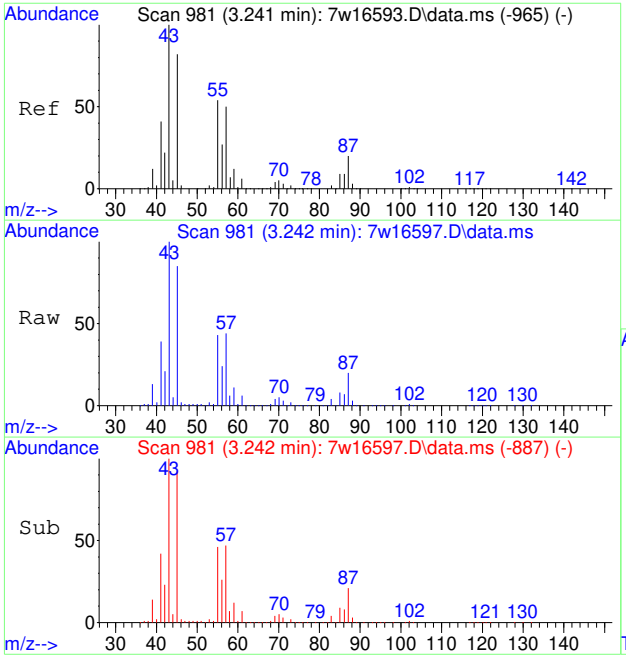


#37
TETRAHYDROFURAN
Concen: 11.34 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 61873

Ion	Ratio	Lower	Upper
72	100		
42	255.2	180.3	334.8
71	93.5	65.8	122.2

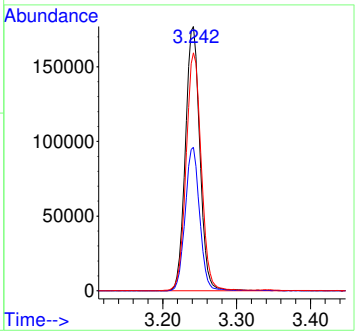


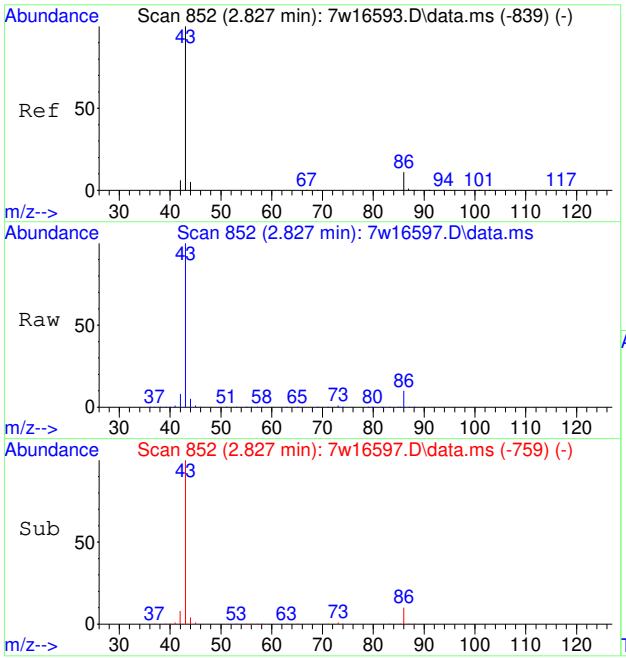


#38
HEXANE
Concen: 10.65 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 241359

Ion	Ratio	Lower	Upper
57	100		
56	54.3	38.0	70.6
41	94.3	65.9	122.5

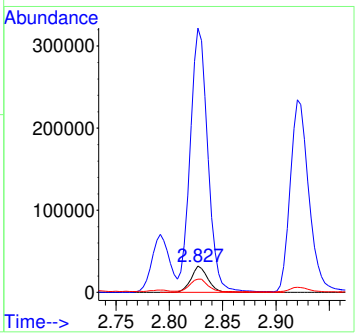


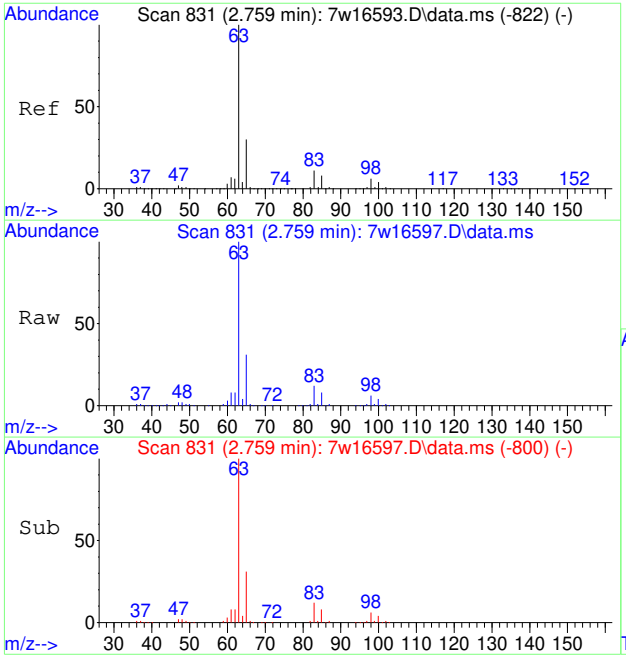


#39
VINYL ACETATE
Concen: 10.80 PPBV
RT: 2.827 min Scan# 852
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 86 Resp: 34923

Ion	Ratio	Lower	Upper
86	100		
43	1069.3	758.7	1408.9
44	53.9	39.5	73.3

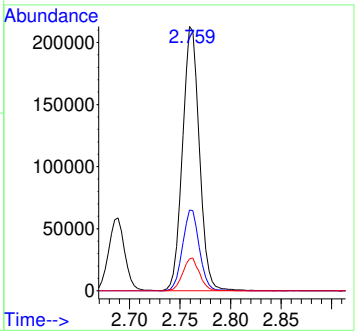


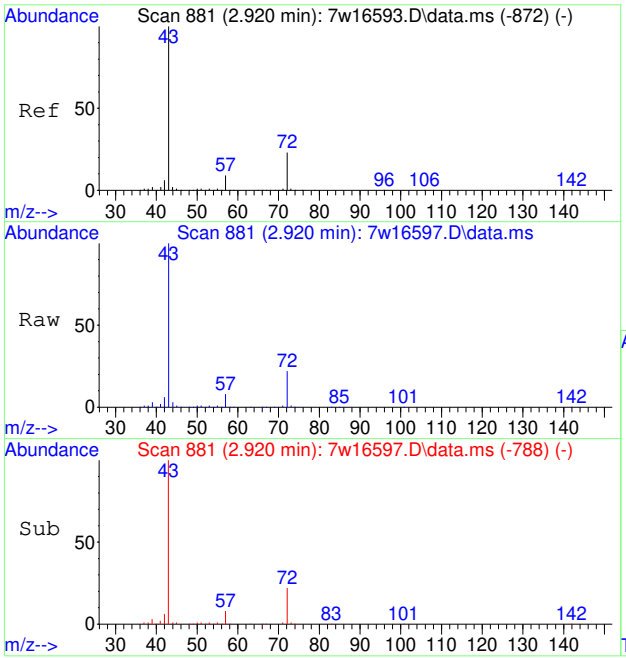


#40
1,1-DICHLOROETHANE
Concen: 10.82 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 247364

Ion	Ratio	Lower	Upper
63	100		
65	30.7	21.4	39.8
83	12.4	8.3	15.5

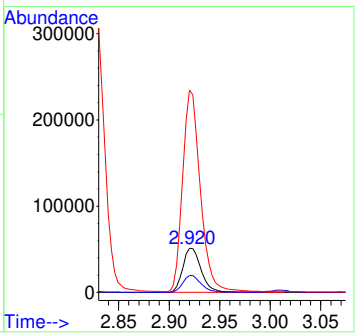


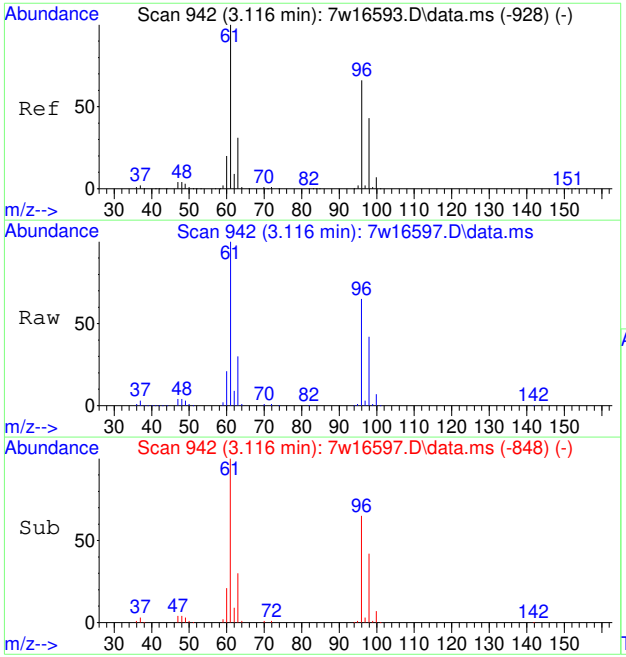


#41
METHYL ETHYL KETONE
Concen: 10.54 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 65125

Ion	Ratio	Lower	Upper
72	100		
57	38.2	26.9	49.9
43	435.4	309.4	574.6

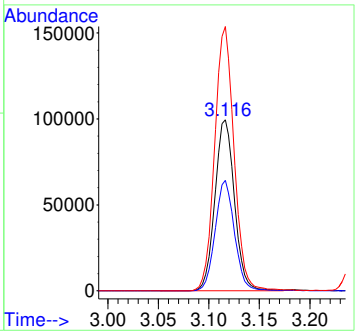


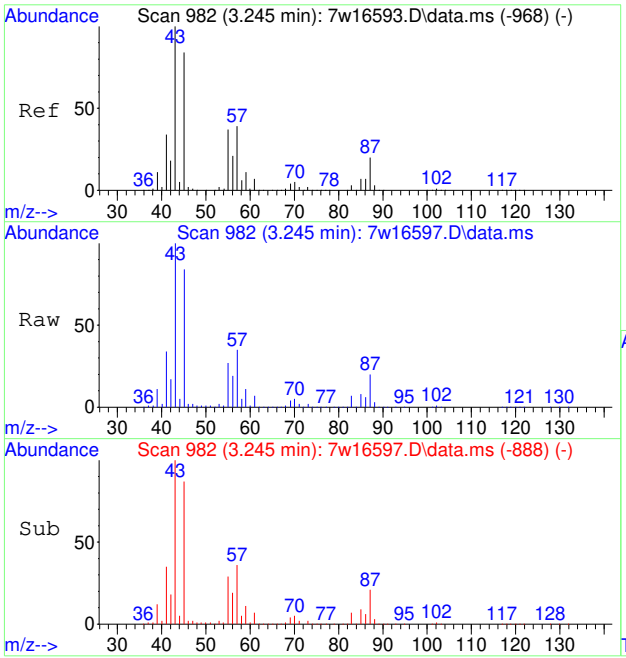


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.92 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 133909

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	153.4	107.3	199.3

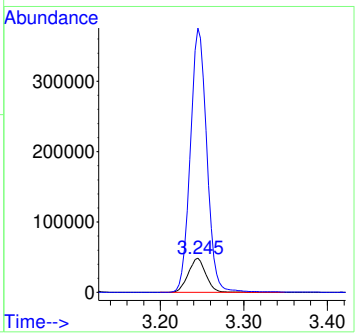


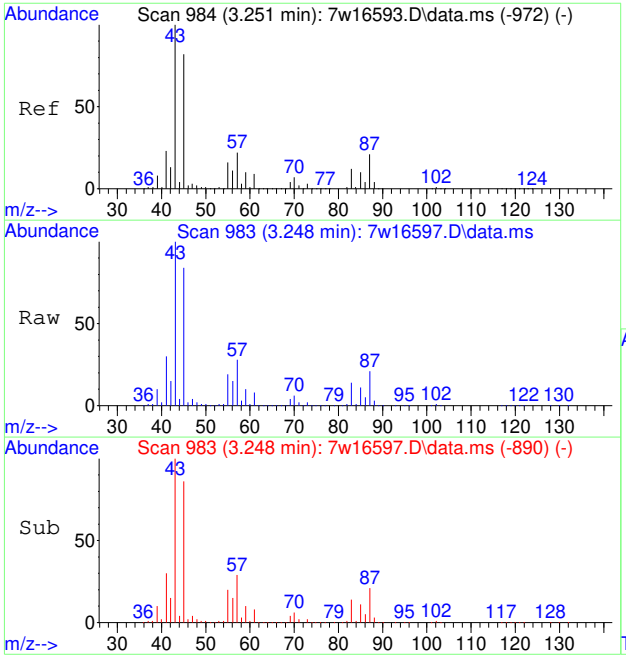


#43
DIISOPROPYL ETHER
Concen: 11.12 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 71425

Ion	Ratio	Lower	Upper
59	100		
45	726.0	517.6	961.2

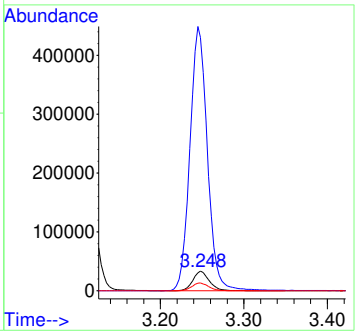


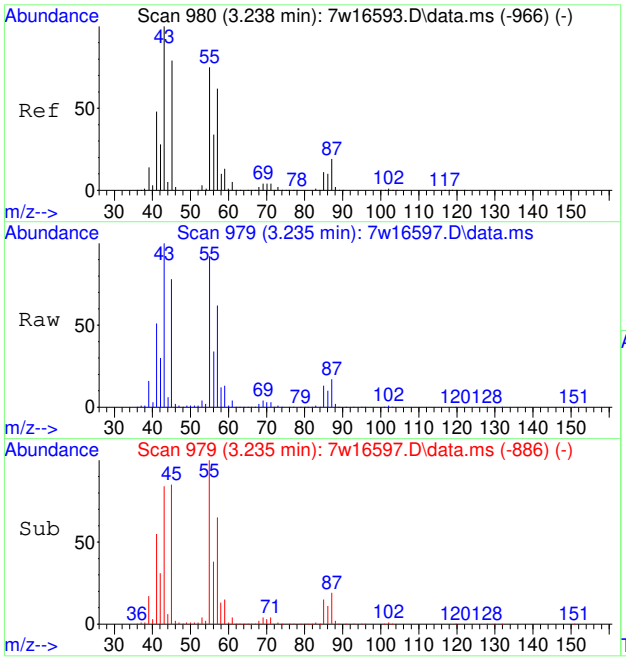


#44
ETHYL ACETATE
Concen: 10.62 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 61 Resp: 46105

Ion	Ratio	Lower	Upper
61	100		
43	1420.7	955.4	1774.4
88	41.4	27.6	51.2

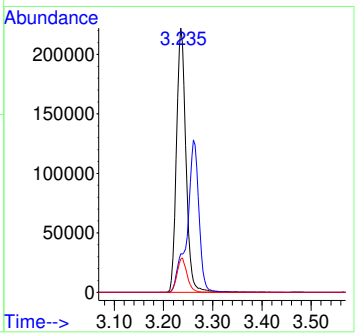


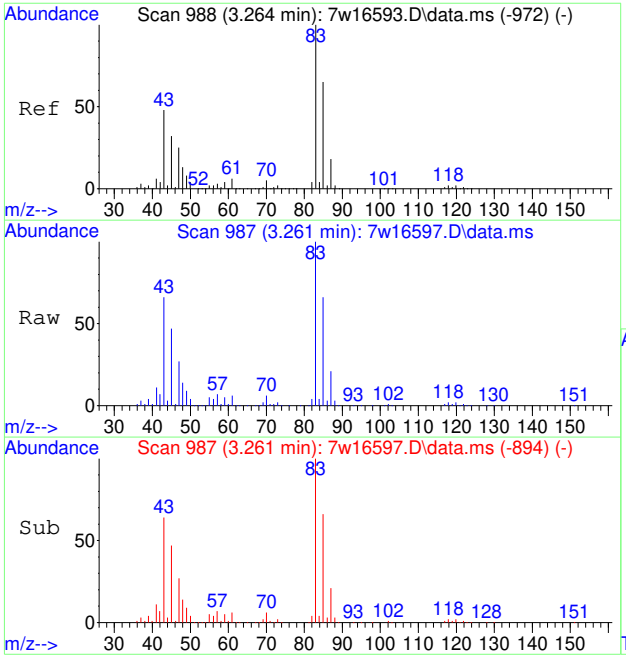


#45
METHYL ACRYLATE
Concen: 10.90 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 298658

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

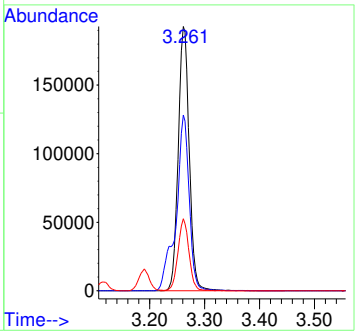


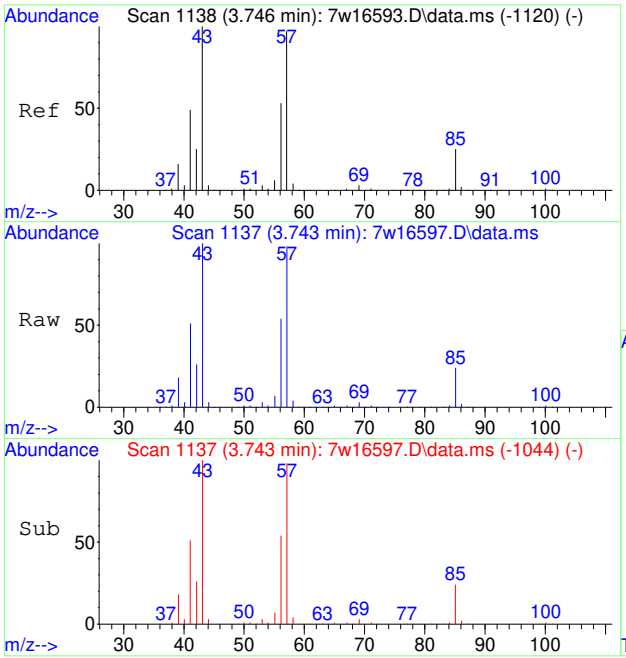


#46
CHLOROFORM
Concen: 11.35 PPBV
RT: 3.261 min Scan# 987
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 268569

Ion	Ratio	Lower	Upper
83	100		
85	79.6	56.0	104.0
47	27.5	19.0	35.4

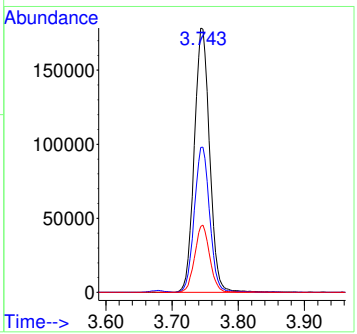


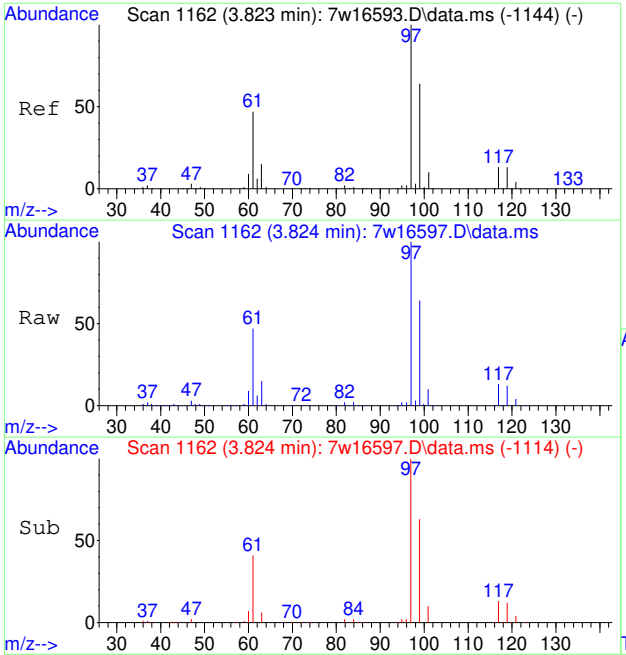


#47
2,4-DIMETHYLPENTANE
Concen: 11.35 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 287870

Ion	Ratio	Lower	Upper
57	100		
56	55.4	38.4	71.2
85	25.0	17.5	32.5

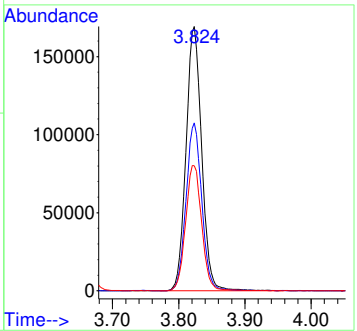


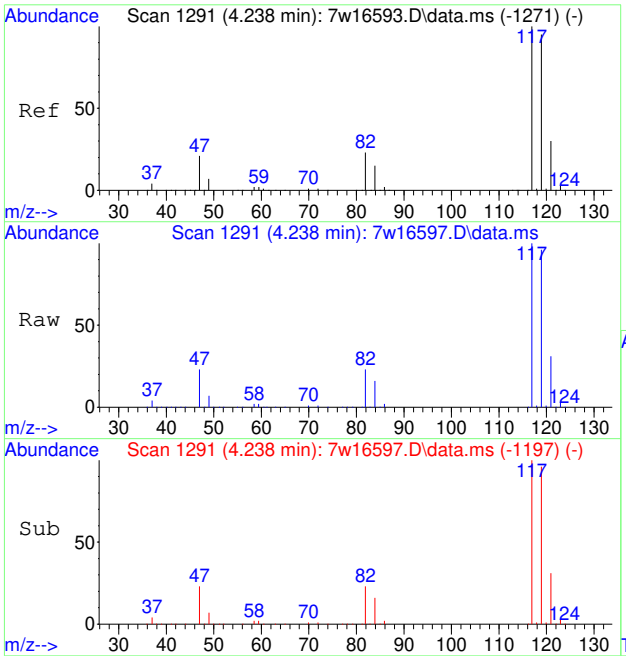


#48
1,1,1-TRICHLOROETHANE
Concen: 11.20 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 97 Resp: 279200

Ion	Ratio	Lower	Upper
97	100		
99	63.8	45.0	83.6
61	48.8	34.7	64.5

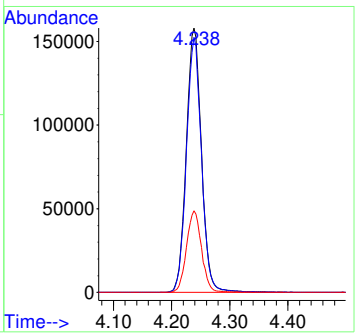


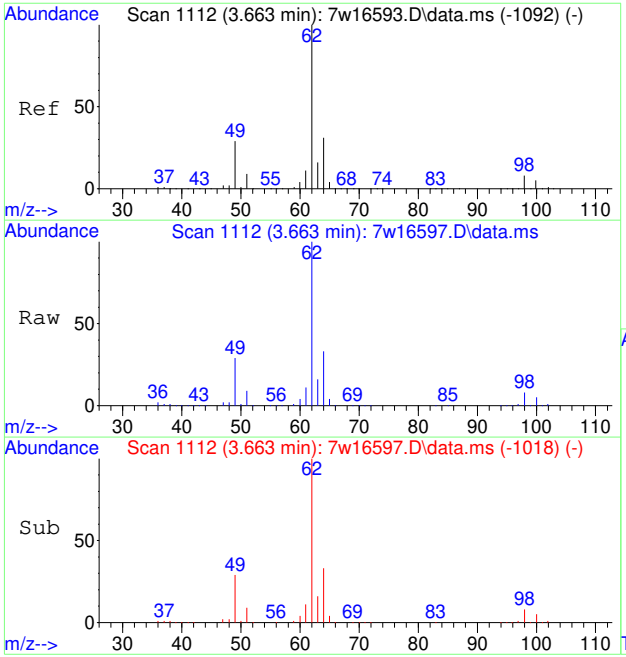


#49
CARBON TETRACHLORIDE
Concen: 11.10 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 286618

Ion	Ratio	Lower	Upper
117	100		
119	95.8	67.5	125.3
121	30.7	21.3	39.5

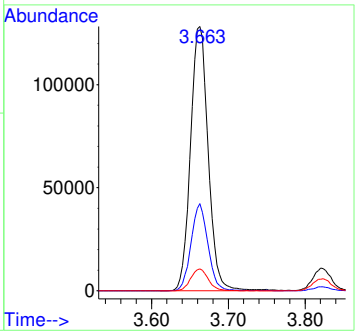


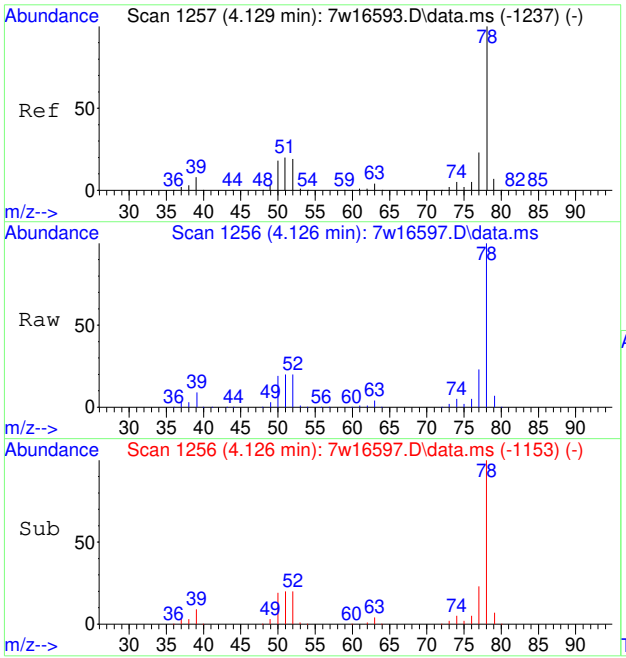


#50
1,2-DICHLOROETHANE
Concen: 11.17 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 205457

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.3	5.8	10.8

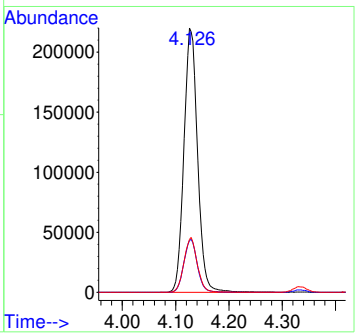


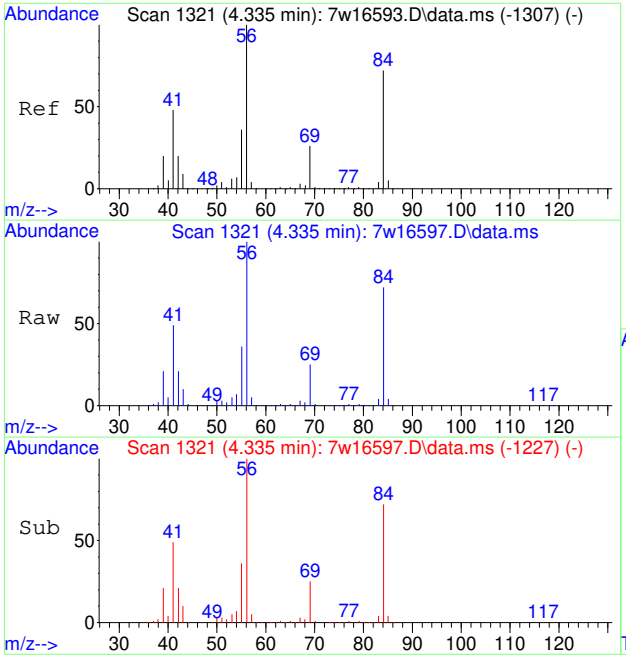


#51
BENZENE
Concen: 10.80 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 78 Resp: 392045

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	49.9
51	20.3	0.0	50.6

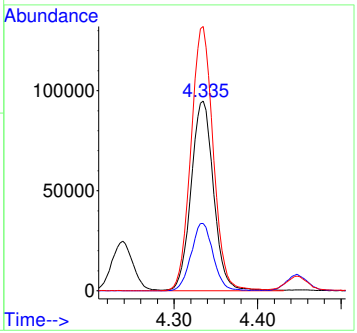


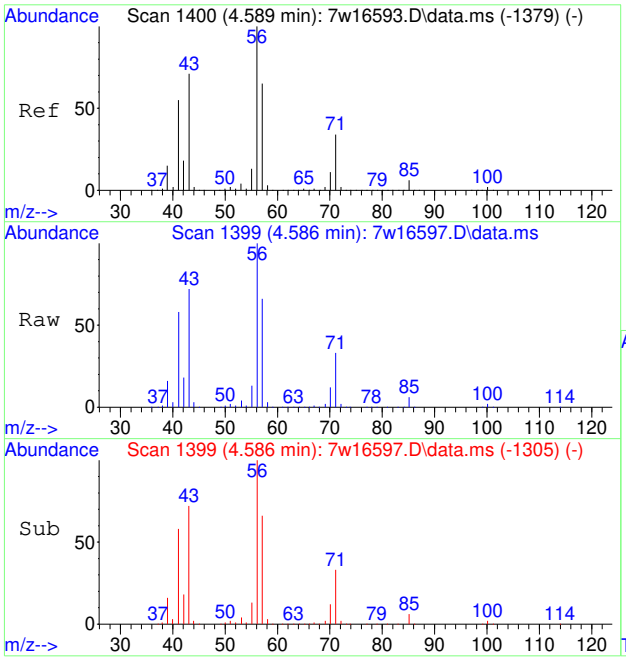


#53
CYCLOHEXANE
Concen: 11.13 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 178042

Ion	Ratio	Lower	Upper
84	100		
69	34.9	24.6	45.6
56	137.7	96.4	179.0

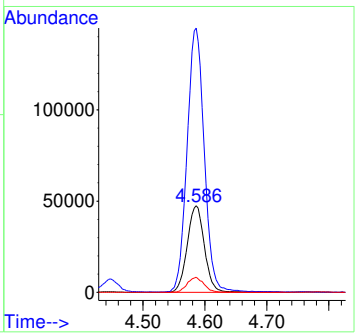


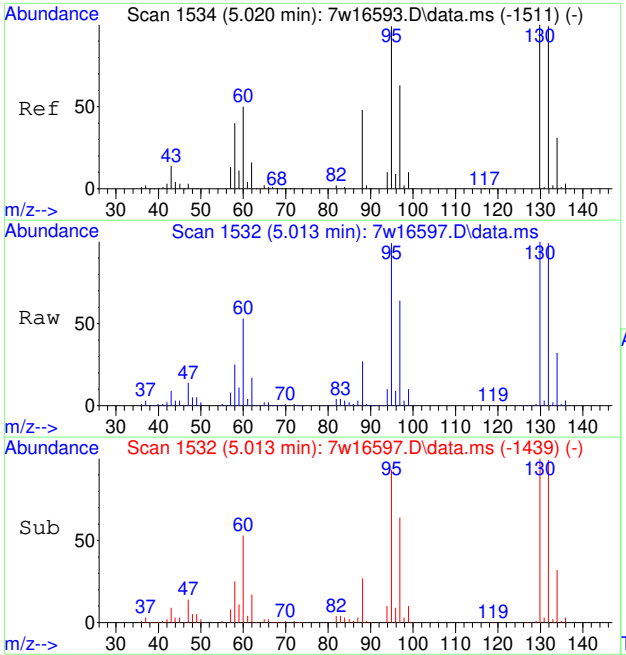


#54
2,3-DIMETHYLPENTANE
Concen: 11.55 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 71 Resp: 92136

Ion	Ratio	Lower	Upper
71	100		
56	303.3	213.2	396.0
85	17.0	12.2	22.6

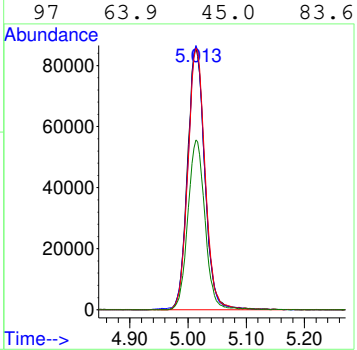


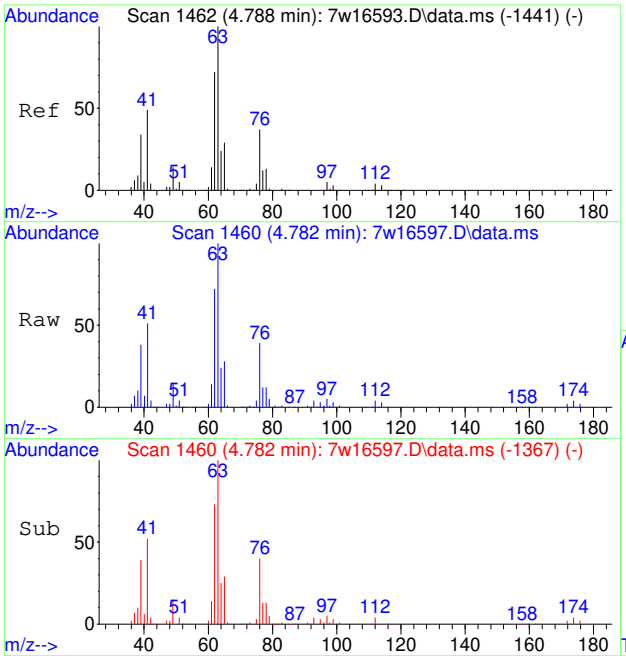


#55
TRICHLOROETHENE
Concen: 10.41 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 95 Resp: 177553

Ion	Ratio	Lower	Upper
95	100		
130	99.6	69.4	129.0
132	99.5	69.4	128.8
97	63.9	45.0	83.6

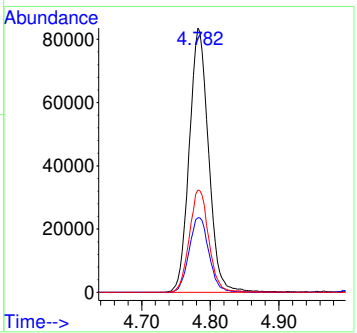


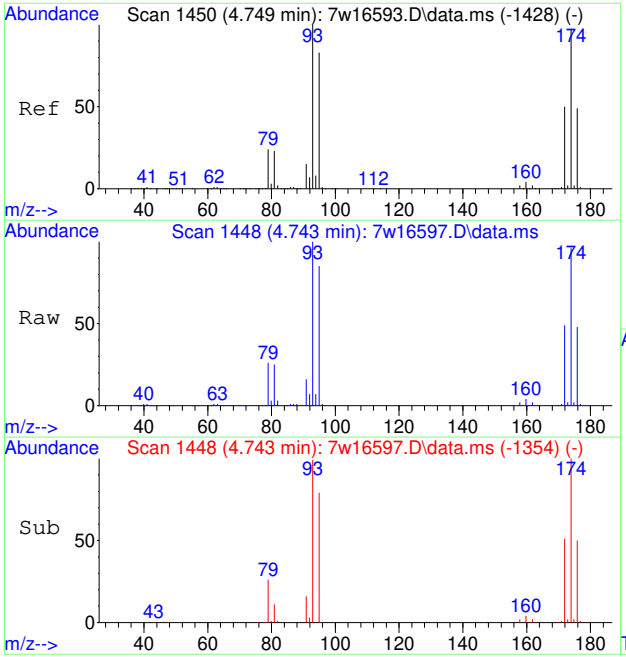


#56
1,2-DICHLOROPROPANE
Concen: 10.84 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 163448

Ion	Ratio	Lower	Upper
63	100		
65	29.3	20.5	38.1
76	39.1	27.1	50.3

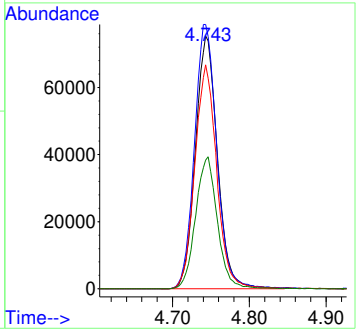


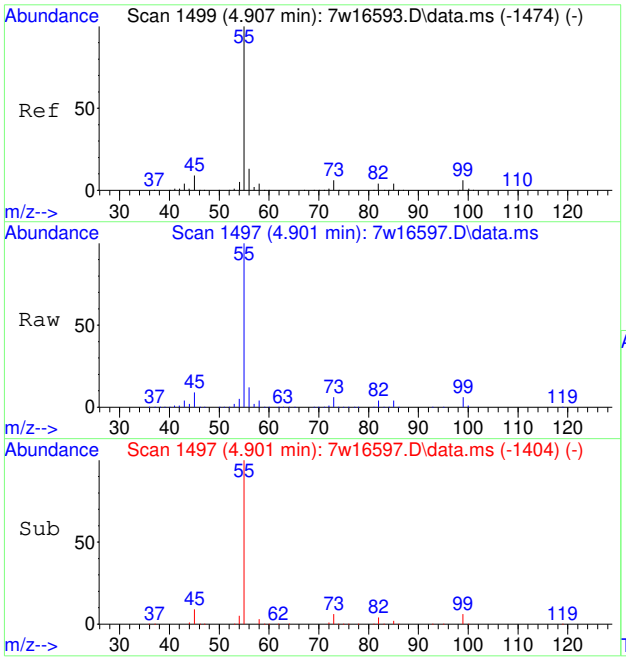


#57
DIBROMOMETHANE
Concen: 10.35 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:174 Resp: 150387

Ion	Ratio	Lower	Upper
174	100		
93	106.5	75.3	139.9
95	88.3	62.4	115.8
172	51.7	36.6	68.0

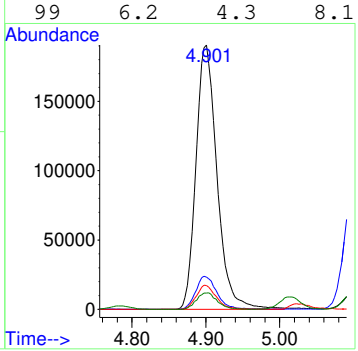


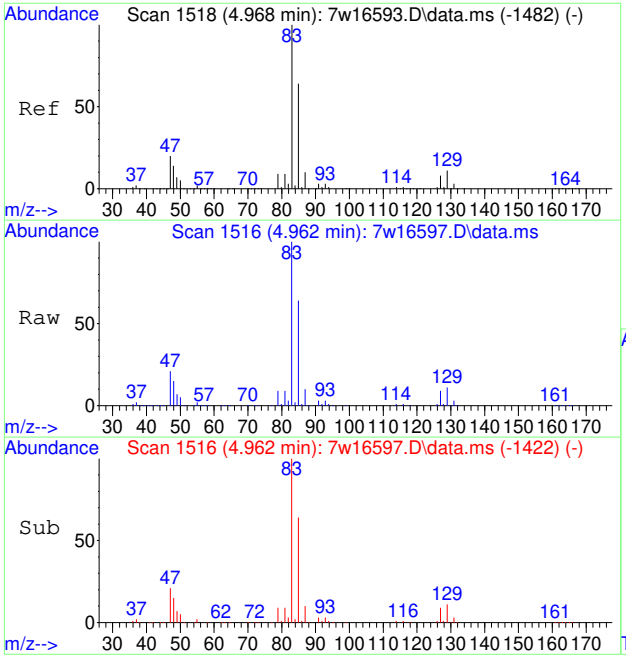


#58
ETHYL ACRYLATE
Concen: 11.17 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 376913

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.8	6.1	11.3
99	6.2	4.3	8.1

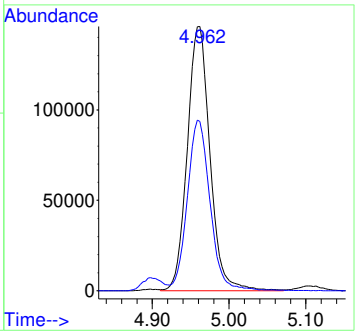


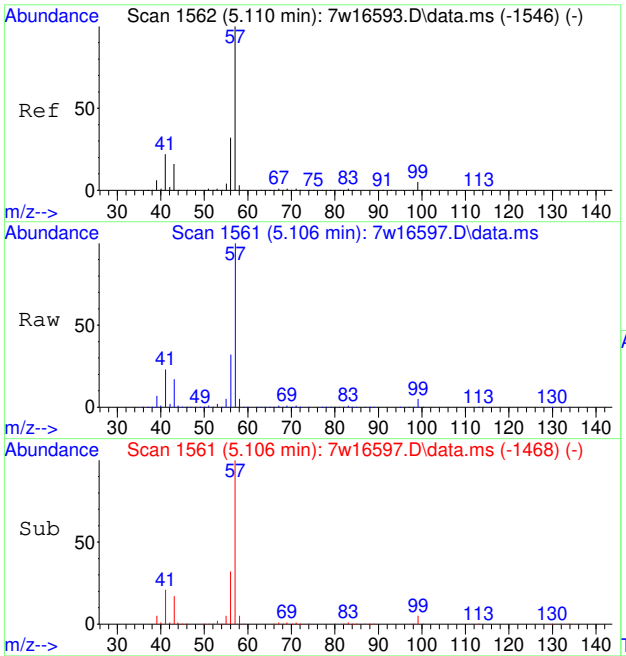


#59
BROMODICHLOROMETHANE
Concen: 10.90 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 300258

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

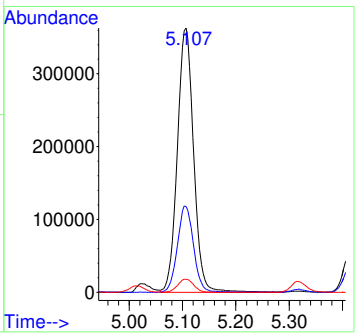


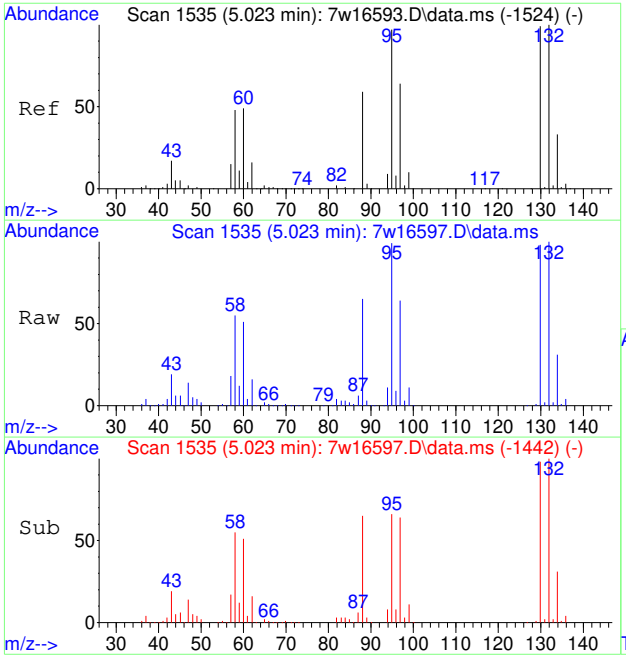


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.43 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 770282

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.0	3.6	6.8

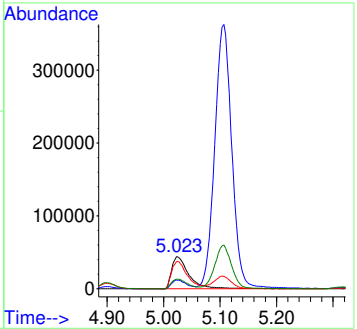


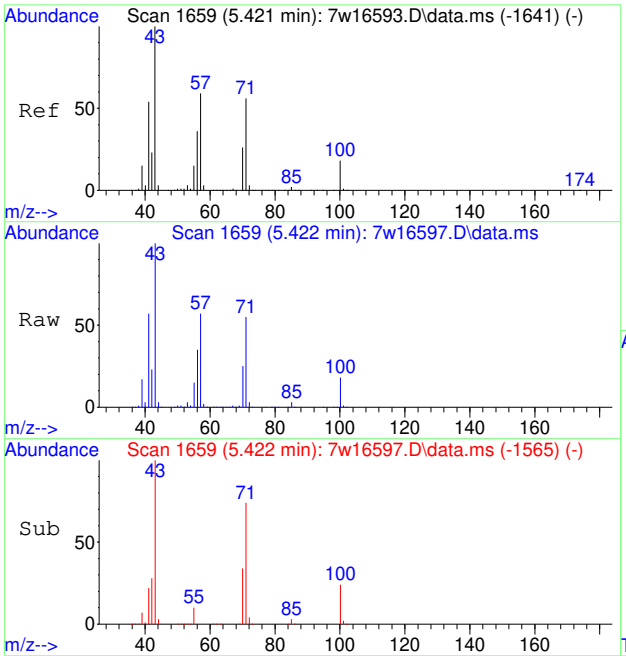


#61
1,4-DIOXANE
Concen: 11.72 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 88 Resp: 94601

Ion	Ratio	Lower	Upper
88	100		
57	23.9	16.7	30.9
58	77.5	52.4	97.4
43	26.8	18.5	34.3

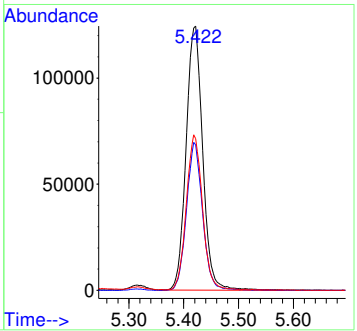


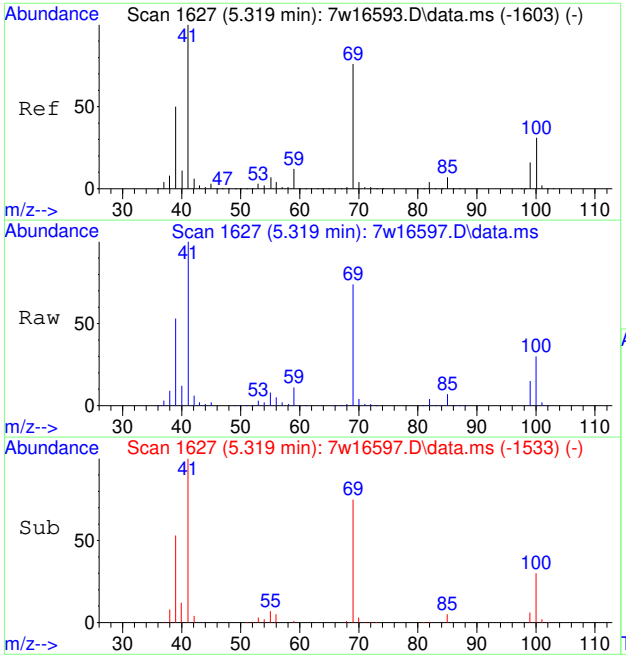


#62
HEPTANE
Concen: 10.72 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 261506

Ion	Ratio	Lower	Upper
43	100		
71	54.5	38.9	72.2
57	57.7	40.5	75.3

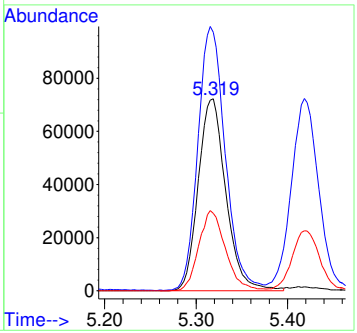


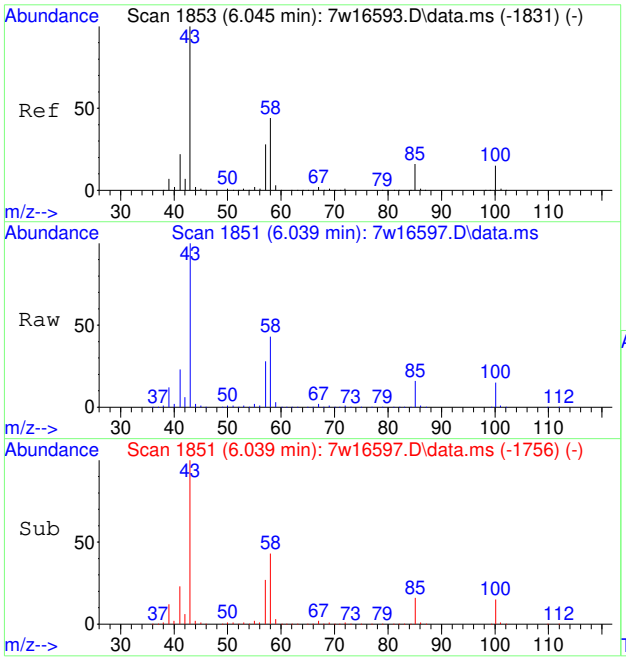


#63
METHYL METHACRYLATE
Concen: 11.09 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 152007

Ion	Ratio	Lower	Upper
69	100		
41	135.8	95.5	177.4
100	40.4	28.1	52.1

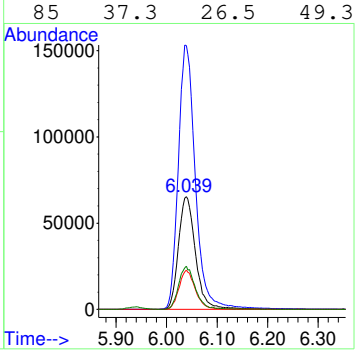


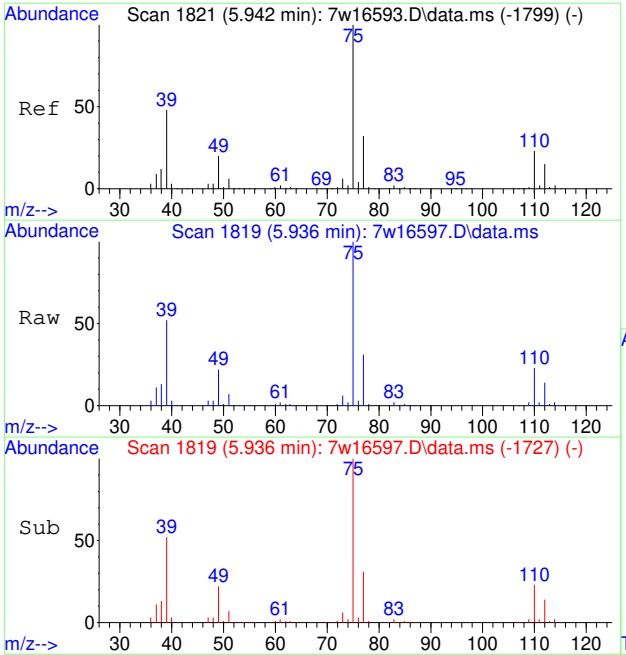


#64
METHYL ISOBUTYL KETONE
Concen: 10.57 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 154590

Ion	Ratio	Lower	Upper
58	100		
43	234.3	163.8	304.2
100	33.6	23.2	43.2
85	37.3	26.5	49.3

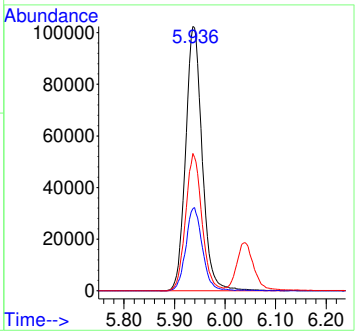


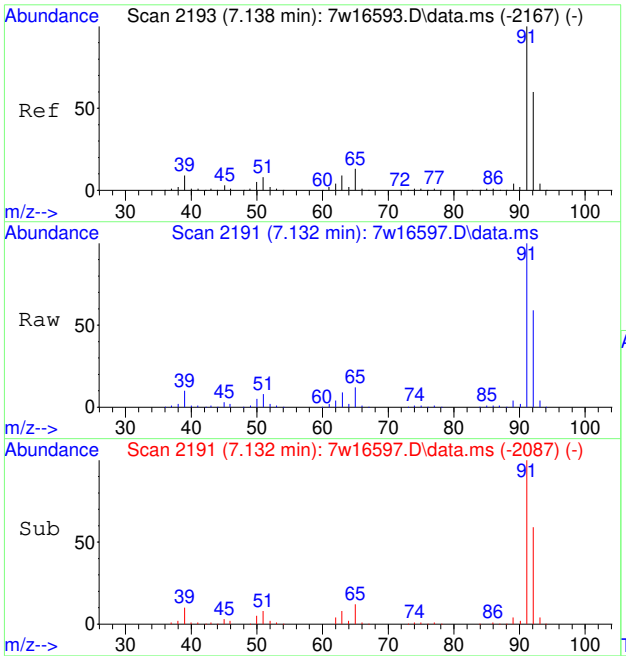


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.11 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 233811

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	41.0
39	51.1	35.7	66.3

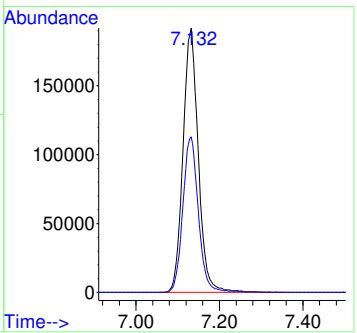


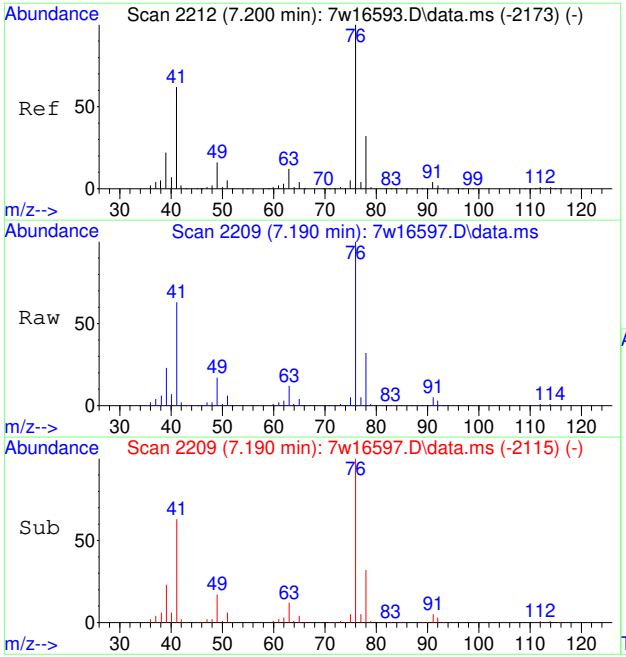


#66
TOLUENE
Concen: 11.25 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 488543

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

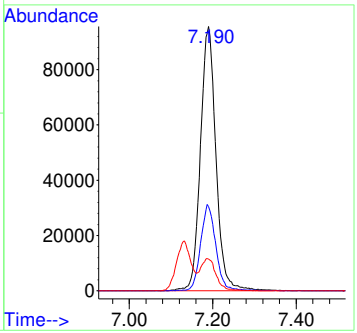


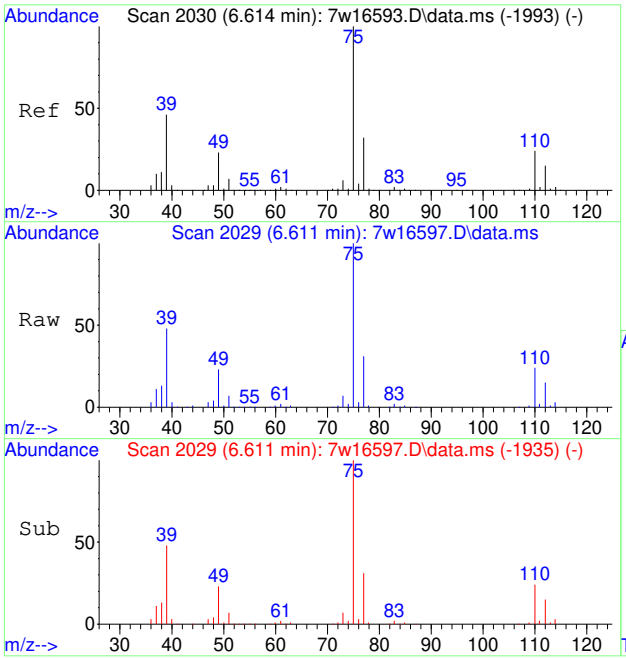


#67
1,3-DICHLOROPROPANE
Concen: 11.34 PPBV
RT: 7.190 min Scan# 2209
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 246988

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.4	41.6
63	12.0	8.3	15.5

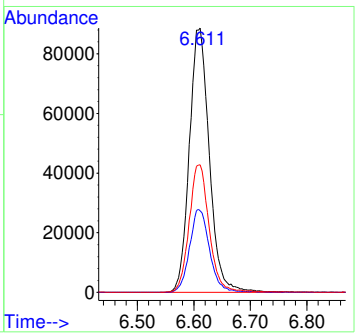


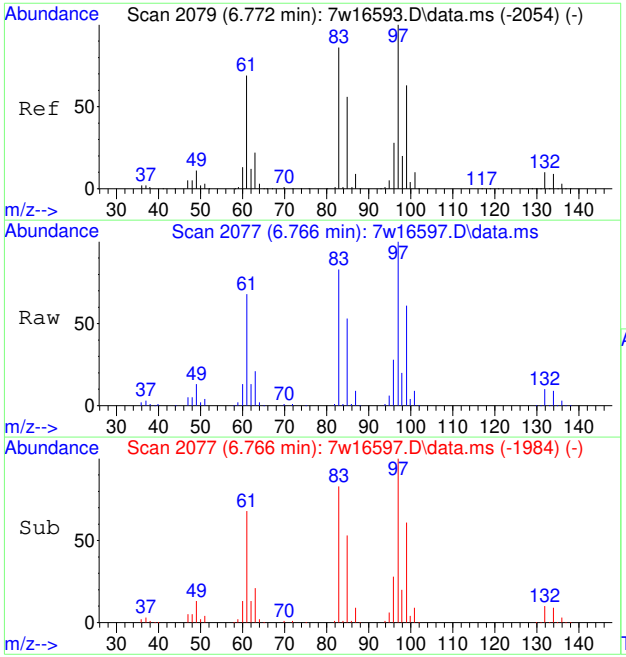


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 10.42 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 217661

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	48.8	33.9	63.0

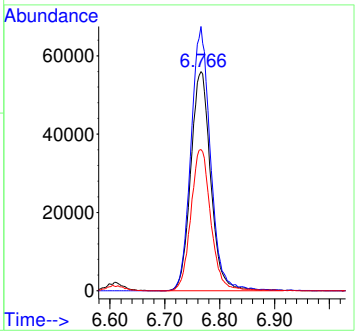


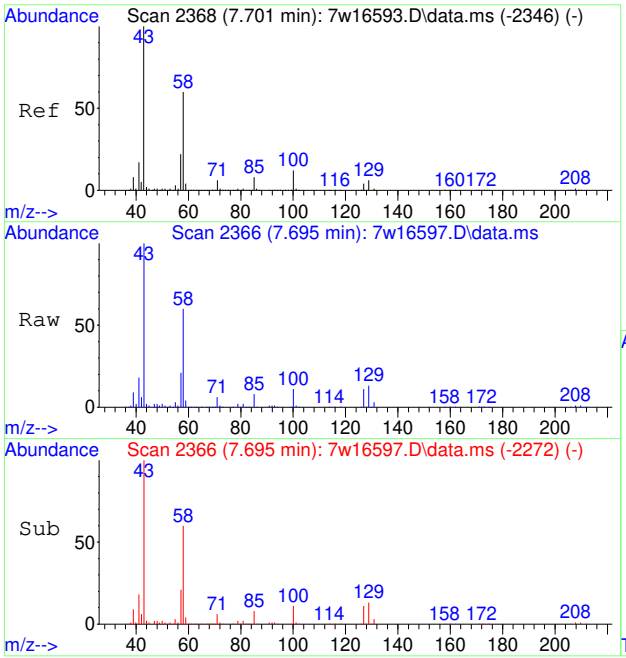


#69
1,1,2-TRICHLOROETHANE
Concen: 11.44 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 141620

Ion	Ratio	Lower	Upper
83	100		
97	117.7	81.2	150.8
85	64.6	45.1	83.7

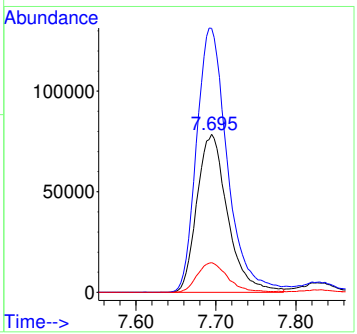


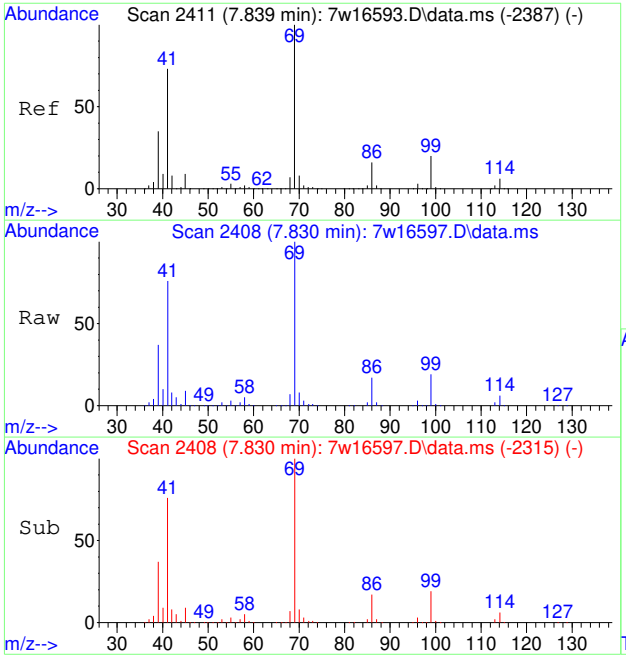


#70
2-HEXANONE
Concen: 10.26 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 209349

Ion	Ratio	Lower	Upper
58	100		
43	167.7	118.6	220.2
100	19.1	13.0	24.2

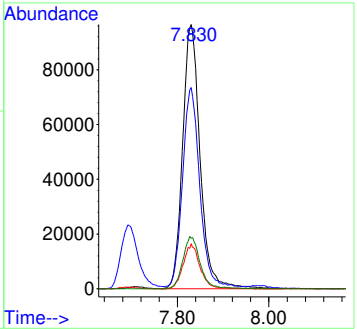


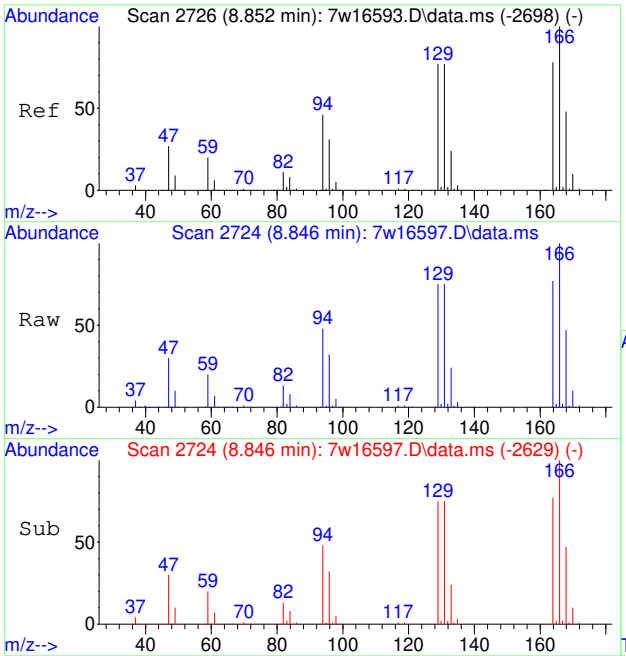


#71
ETHYL METHACRYLATE
Concen: 11.23 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 256728

Ion	Ratio	Lower	Upper
69	100		
41	75.7	53.6	99.6
86	16.4	11.3	20.9
99	19.3	13.8	25.6

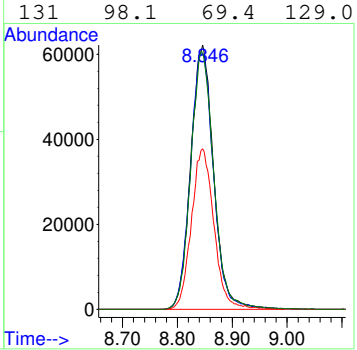


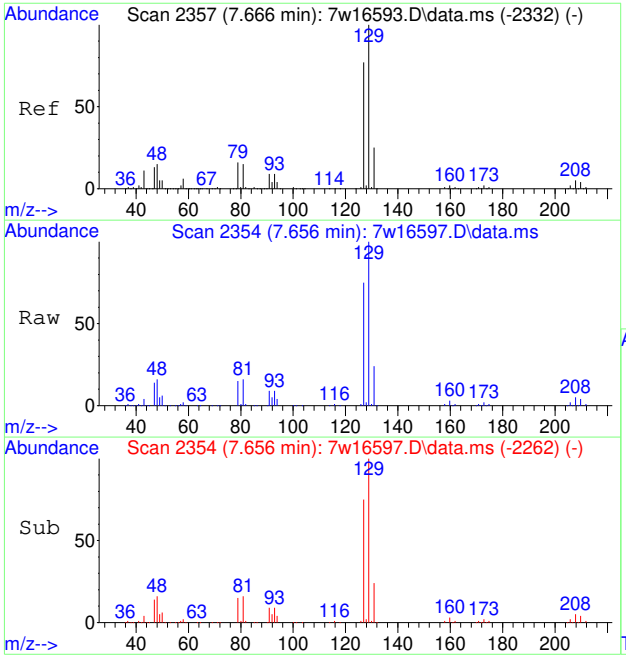


#72
TETRACHLOROETHENE
Concen: 11.40 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:164 Resp: 180607

Ion	Ratio	Lower	Upper
164	100		
129	98.9	69.6	129.2
168	60.0	42.5	78.9
131	98.1	69.4	129.0

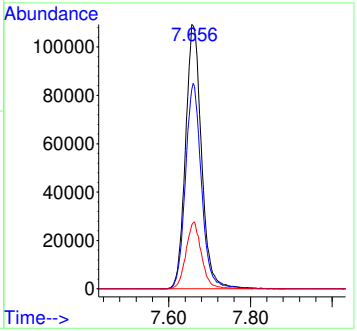


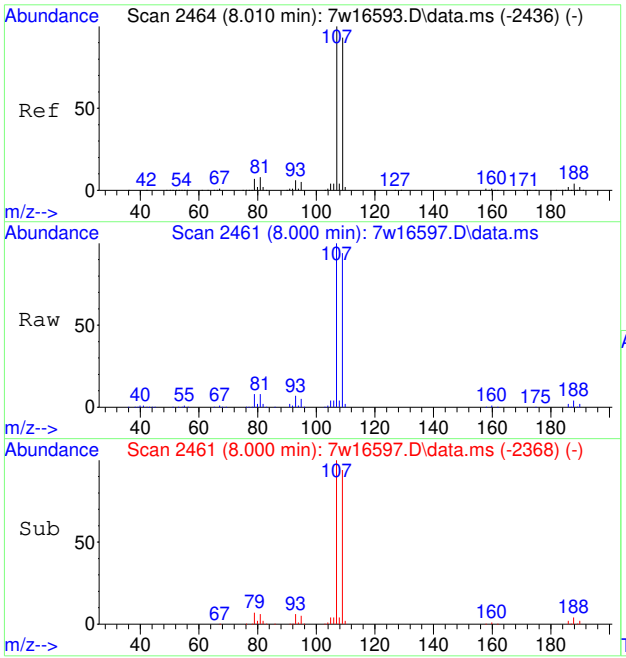


#73
DIBROMOCHLOROMETHANE
Concen: 11.82 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:129 Resp: 297263

Ion	Ratio	Lower	Upper
129	100		
127	77.7	54.7	101.7
131	24.7	17.4	32.4

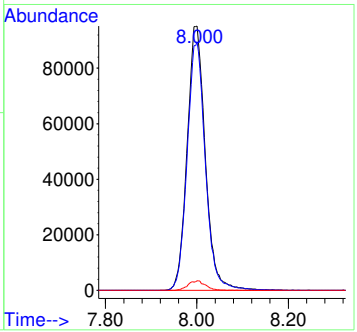


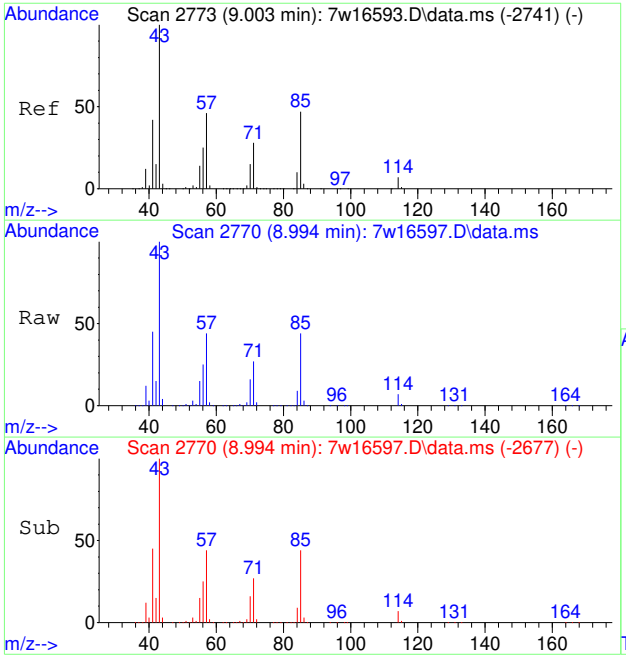


#74
1,2-DIBROMOETHANE
Concen: 11.75 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:107 Resp: 263017

Ion	Ratio	Lower	Upper
107	100		
109	94.1	66.1	122.8
188	3.5	2.5	4.6

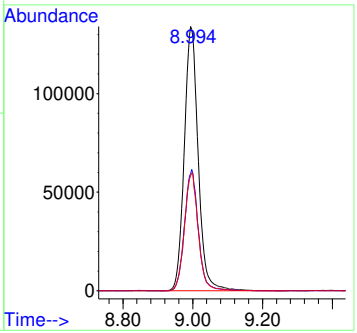


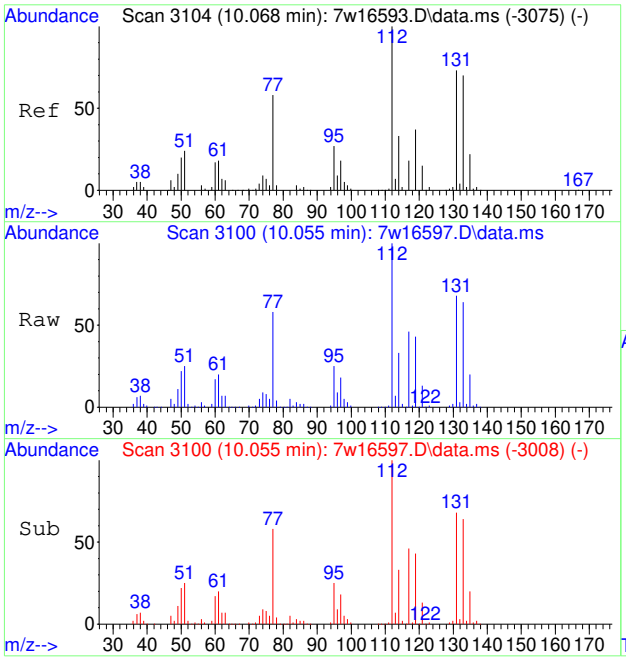


#75
OCTANE
Concen: 11.38 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 371823

Ion	Ratio	Lower	Upper
43	100		
85	45.2	31.8	59.0
57	44.5	31.4	58.2

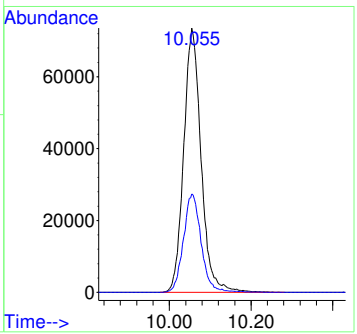


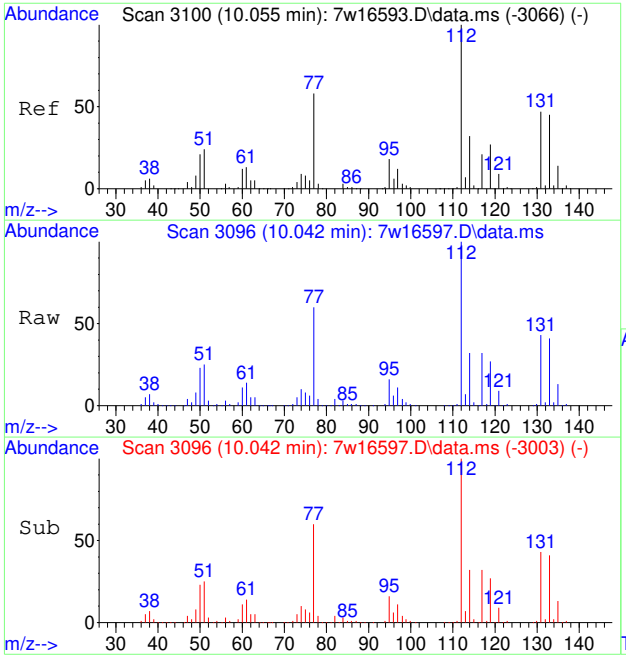


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 12.09 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:131 Resp: 217186

Ion	Ratio	Lower	Upper
131	100		
95	38.0	26.5	49.1

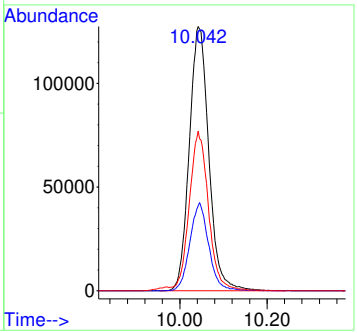


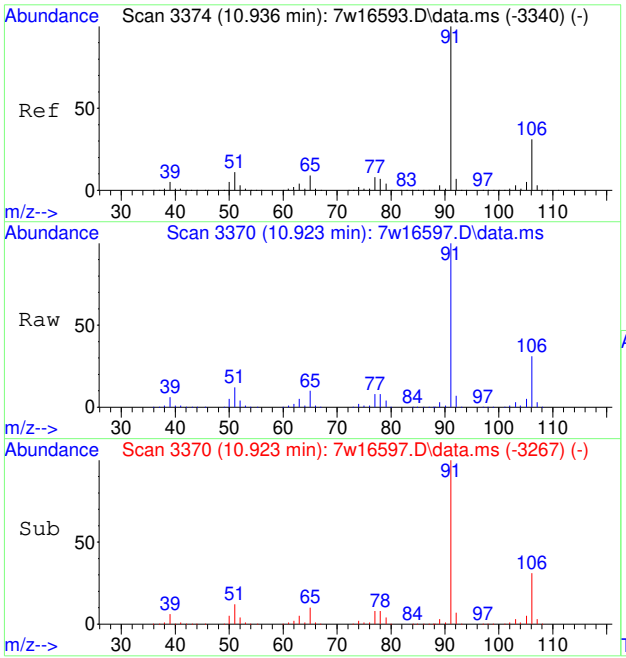


#78
CHLOROBENZENE
Concen: 11.61 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:112 Resp: 397219

Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.7
77	60.4	42.1	78.1

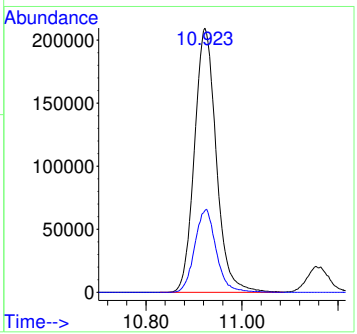


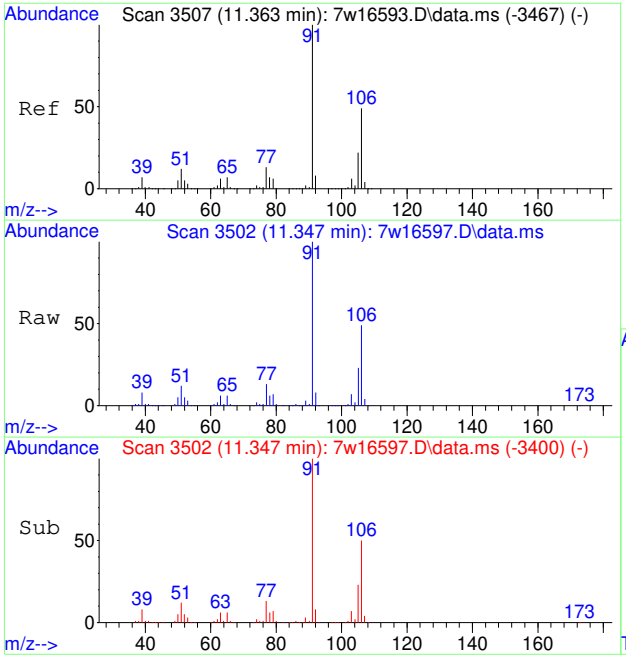


#79
ETHYLBENZENE
Concen: 11.76 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 659125

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.1	61.1

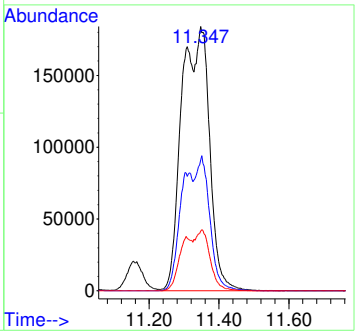


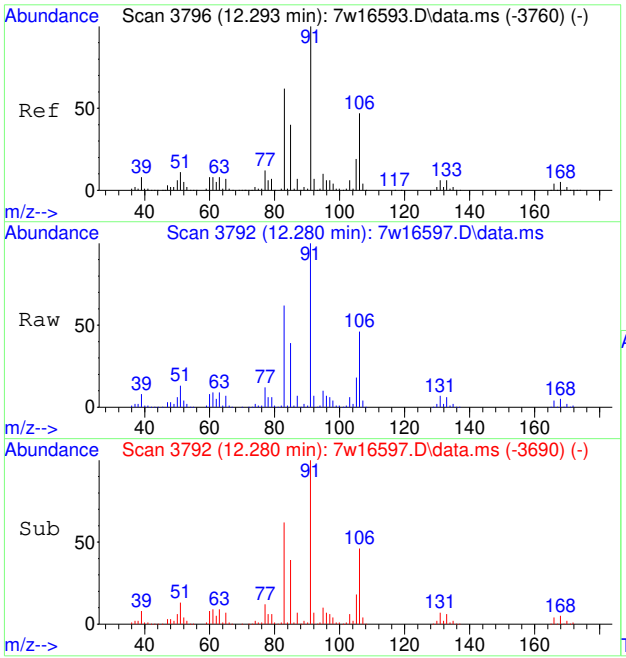


#80
M,P-XYLENE
Concen: 22.50 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 1021629

Ion	Ratio	Lower	Upper
91	100		
106	26.0	0.0	56.1
105	13.3	0.0	42.1

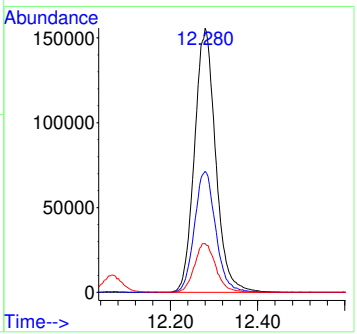


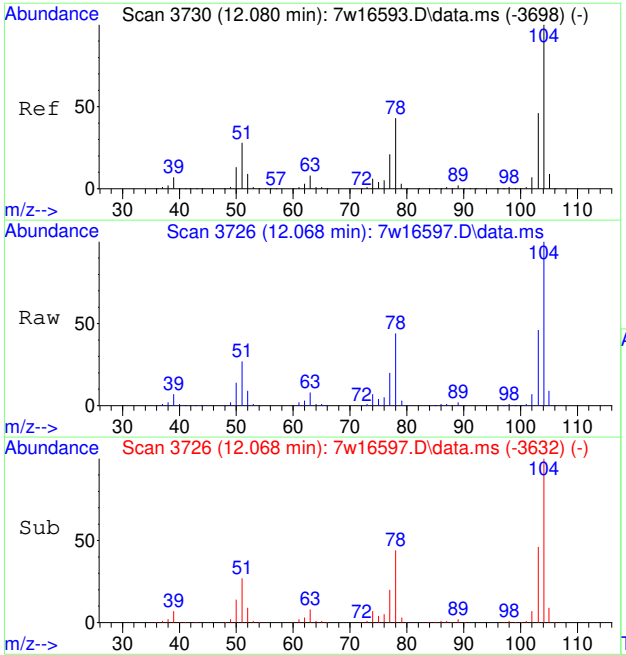


#81
O-XYLENE
Concen: 11.89 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 524115

Ion	Ratio	Lower	Upper
91	100		
106	45.8	31.8	59.0
105	18.5	13.0	24.2

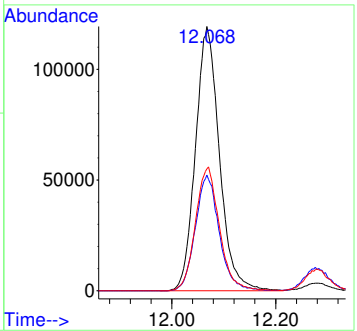


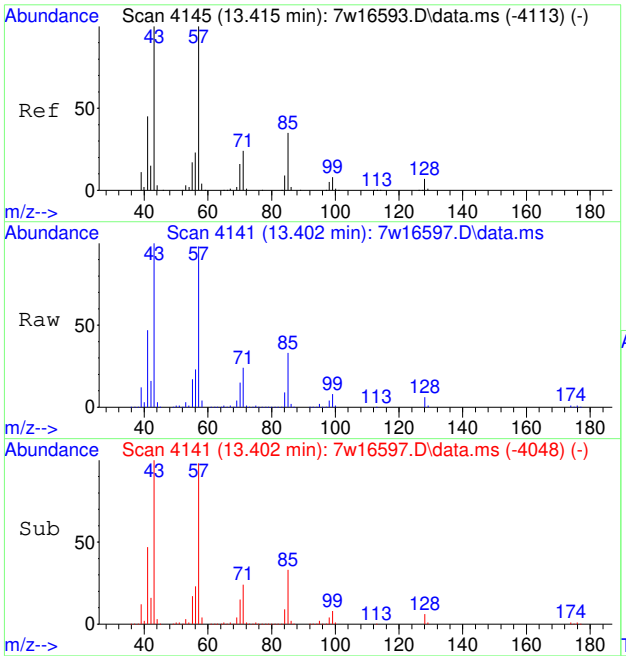


#82
STYRENE
Concen: 11.59 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:104 Resp: 383070

Ion	Ratio	Lower	Upper
104	100		
78	43.8	30.6	56.8
103	47.0	32.8	61.0

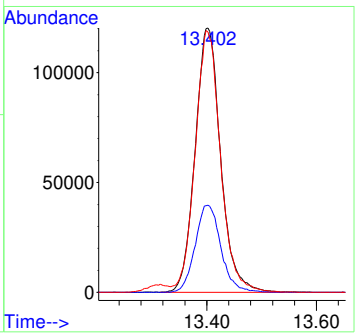


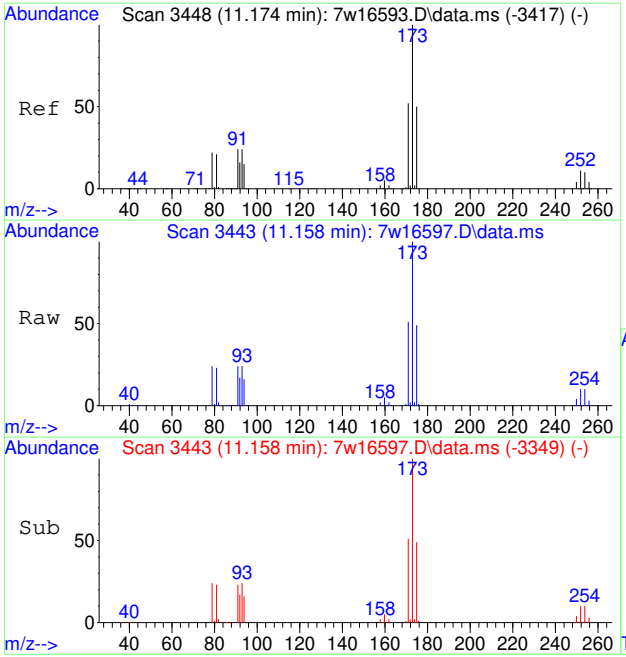


#83
NONANE
Concen: 11.35 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 389550

Ion	Ratio	Lower	Upper
43	100		
85	33.3	23.4	43.4
57	98.5	69.2	128.6

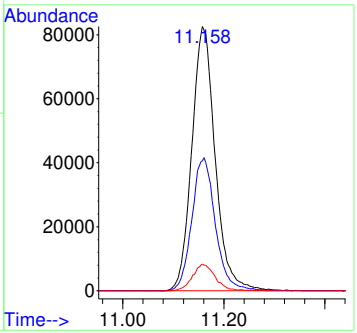


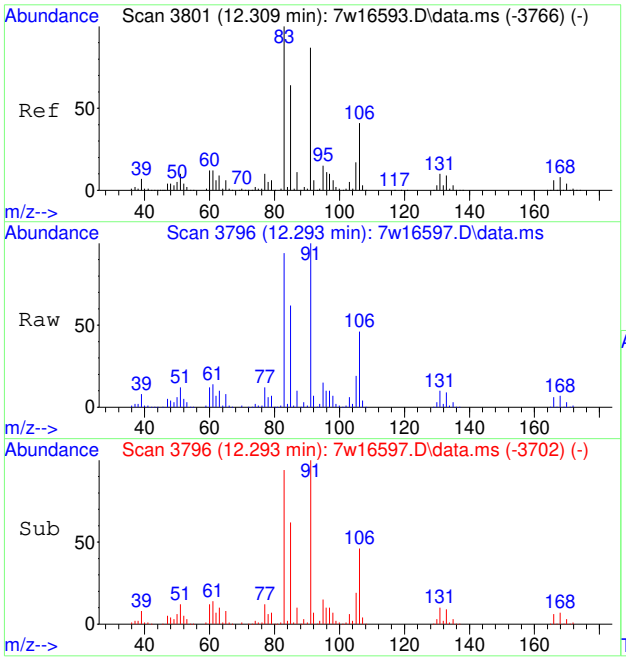


#84
BROMOFORM
Concen: 12.55 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:173 Resp: 265221

Ion	Ratio	Lower	Upper
173	100		
175	50.7	35.1	65.1
254	9.9	6.7	12.5

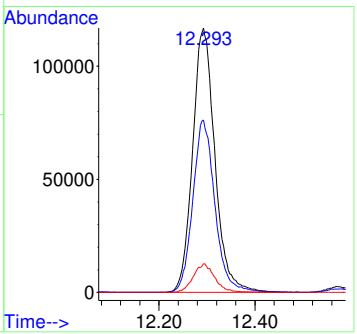


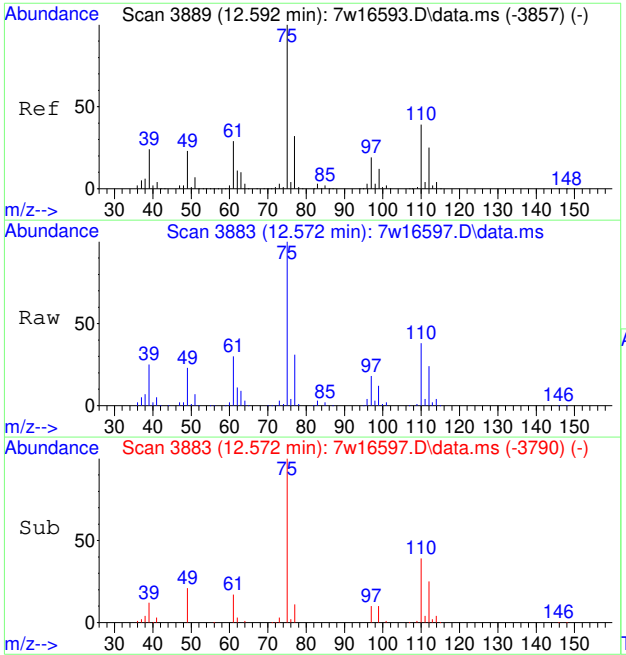


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 11.92 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 376337

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.5	7.3	13.5

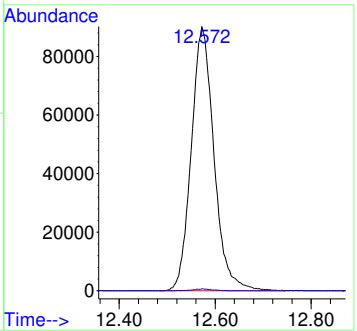


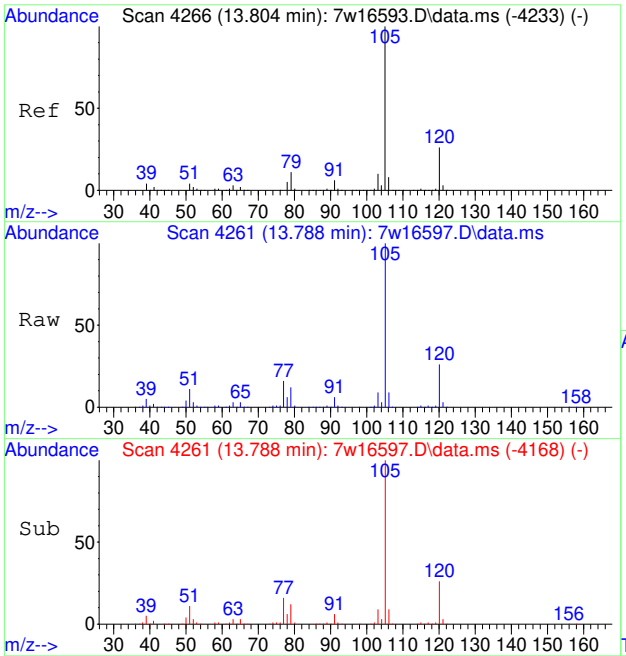


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.97 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 296228

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

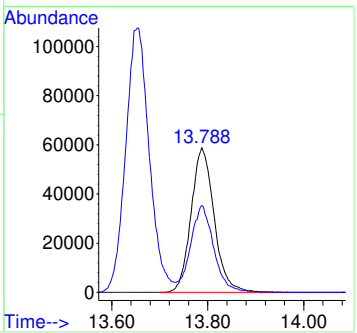


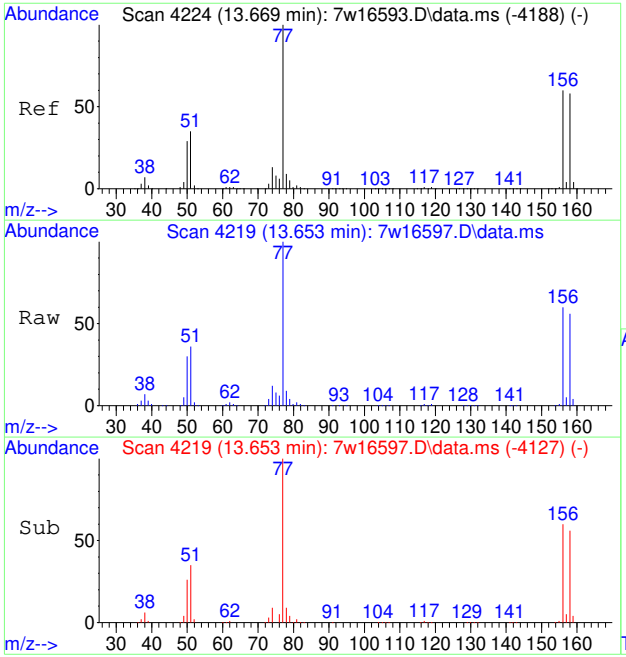


#88
ISOPROPYLBENZENE
Concen: 11.70 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 196063

Ion	Ratio	Lower	Upper
120	100		
77	60.5	42.5	78.9

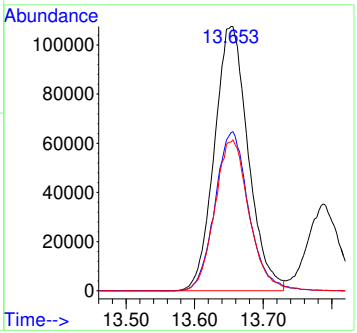


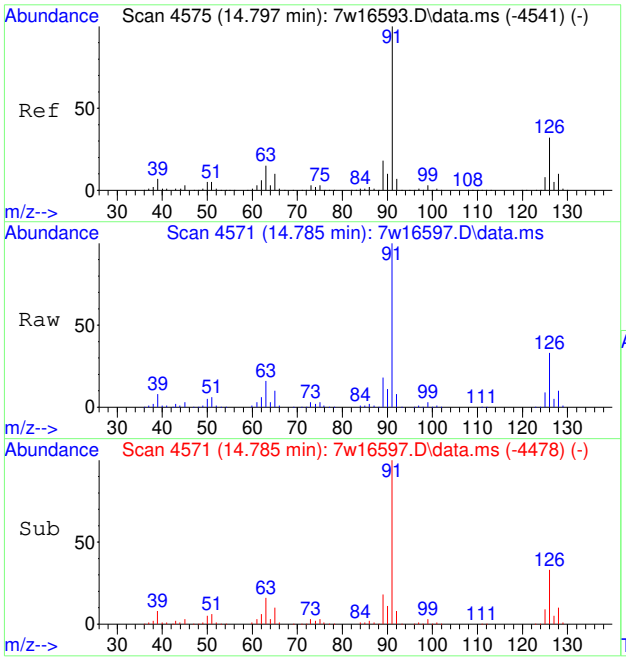


#89
BROMOBENZENE
Concen: 11.46 PPBV
RT: 13.653 min Scan# 4219
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 77 Resp: 368714

Ion	Ratio	Lower	Upper
77	100		
156	60.3	42.4	78.8
158	57.9	40.9	76.0

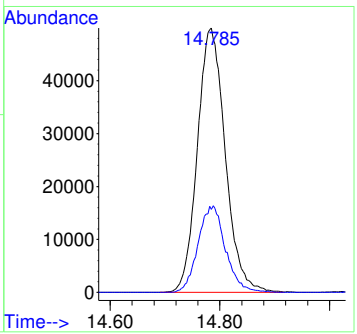


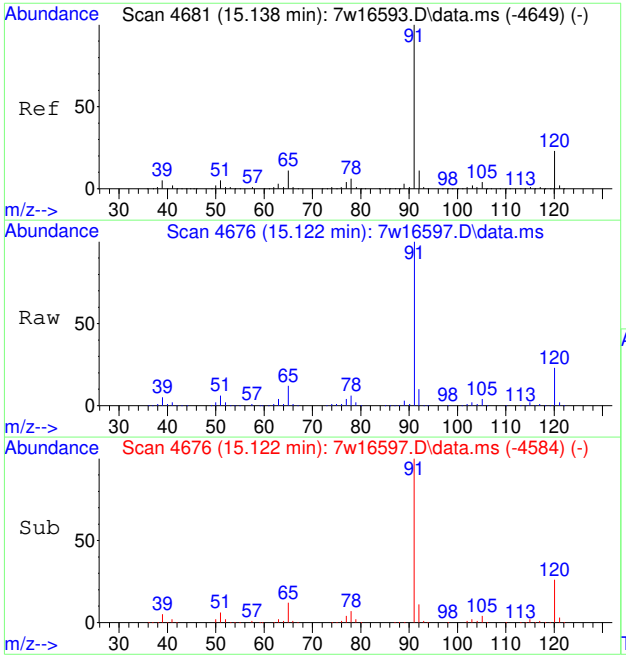


#90
2-CHLOROTOLUENE
Concen: 11.26 PPBV
RT: 14.785 min Scan# 4571
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:126 Resp: 175998

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

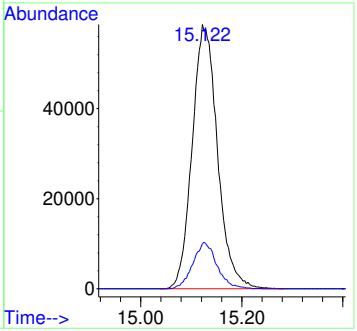


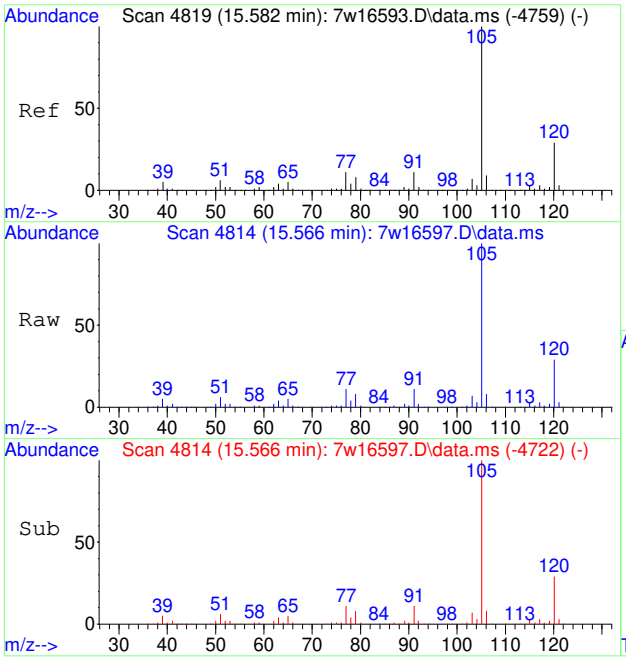


#91
N-PROPYLBENZENE
Concen: 11.48 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 204116

Ion	Ratio	Lower	Upper
120	100		
105	16.8	11.5	21.5

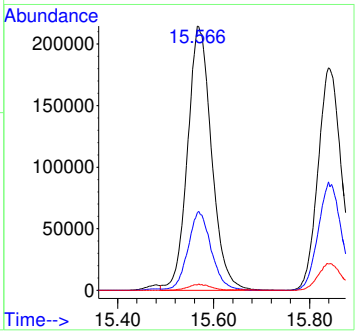


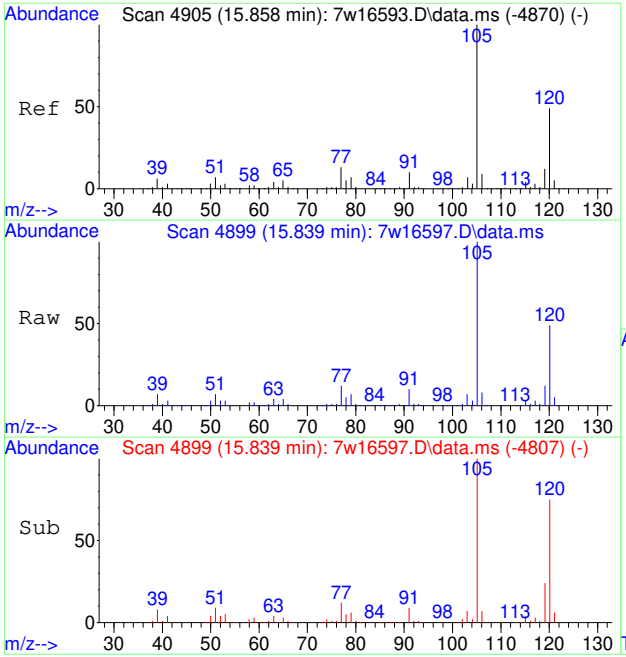


#92
4-ETHYLTOLUENE
Concen: 11.28 PPBV
RT: 15.566 min Scan# 4814
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 742534

Ion	Ratio	Lower	Upper
105	100		
120	29.5	20.7	38.5
119	2.3	1.6	3.0

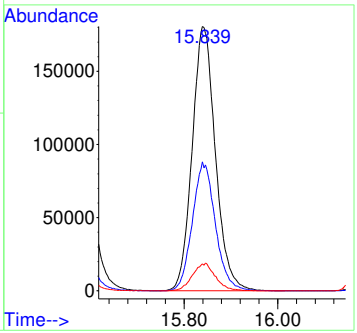


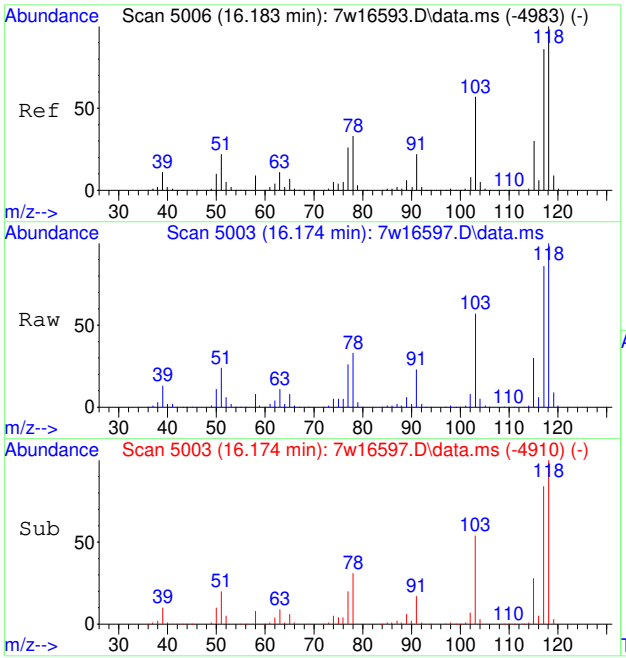


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.36 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 622476

Ion	Ratio	Lower	Upper
105	100		
120	48.2	34.0	63.2
91	10.4	7.3	13.7

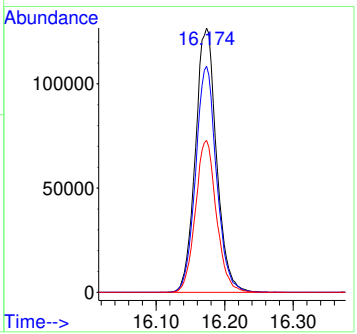


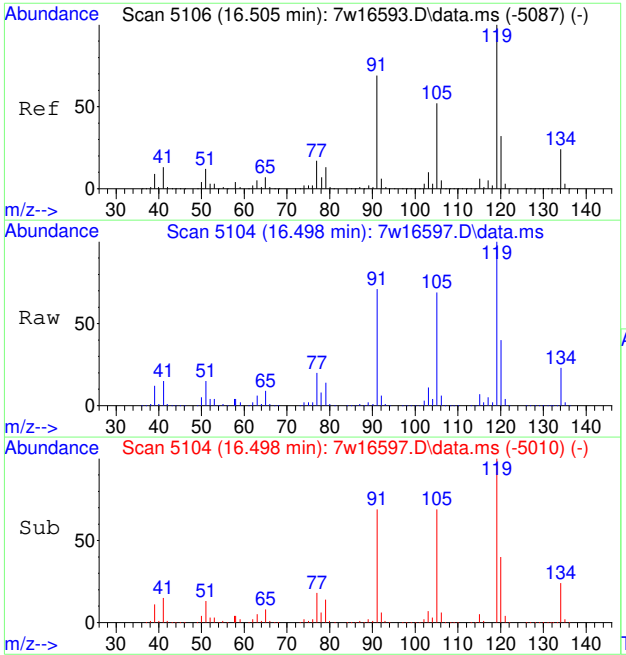


#94
ALPHA-METHYLSTYRENE
Concen: 10.00 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:118 Resp: 271625

Ion	Ratio	Lower	Upper
118	100		
117	84.6	59.6	110.8
103	57.1	40.3	74.9

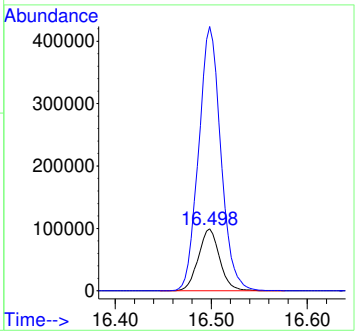


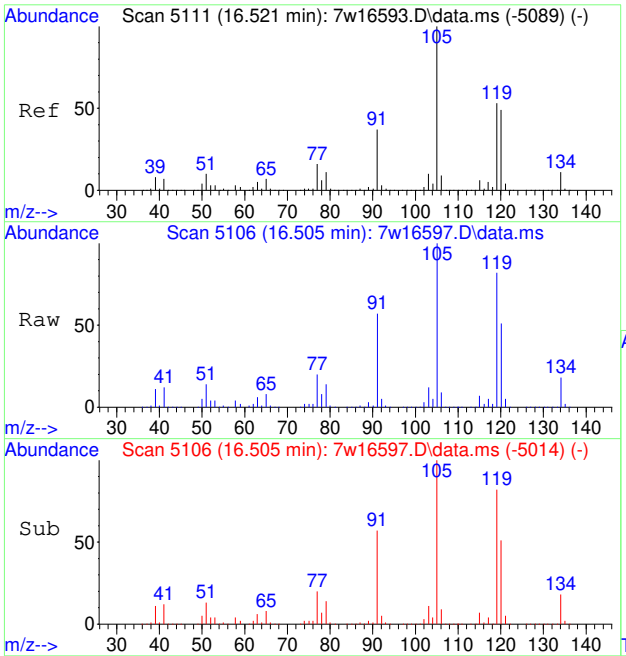


#95
TERT-BUTYLBENZENE
Concen: 11.43 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 152633

Ion	Ratio	Lower	Upper
134	100		
119	446.8	311.3	578.1

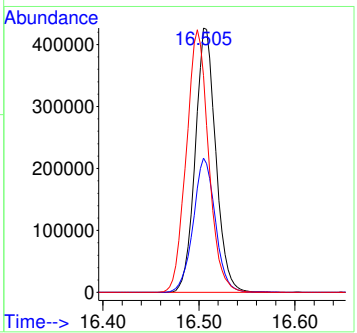


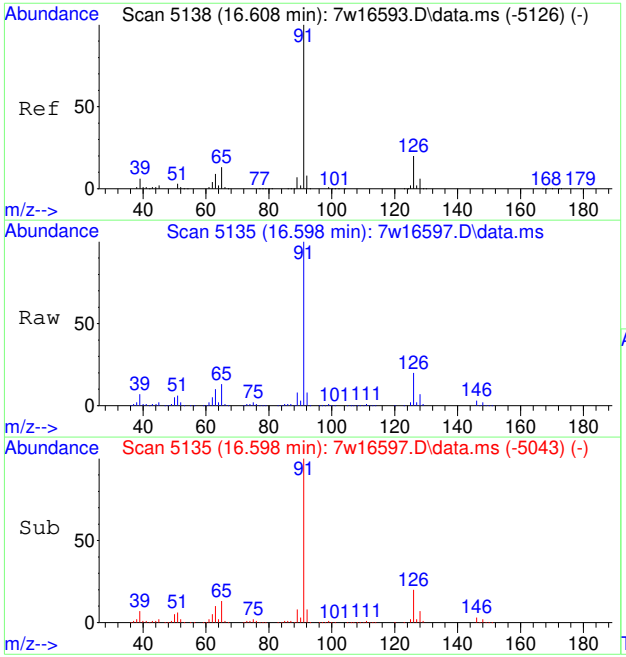


#96
1,2,4-TRIMETHYLBENZENE
Concen: 11.67 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 633879

Ion	Ratio	Lower	Upper
105	100		
120	54.8	37.9	70.5
119	107.6	74.3	137.9

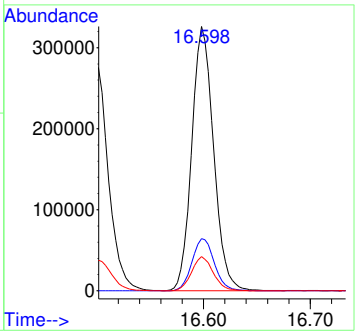


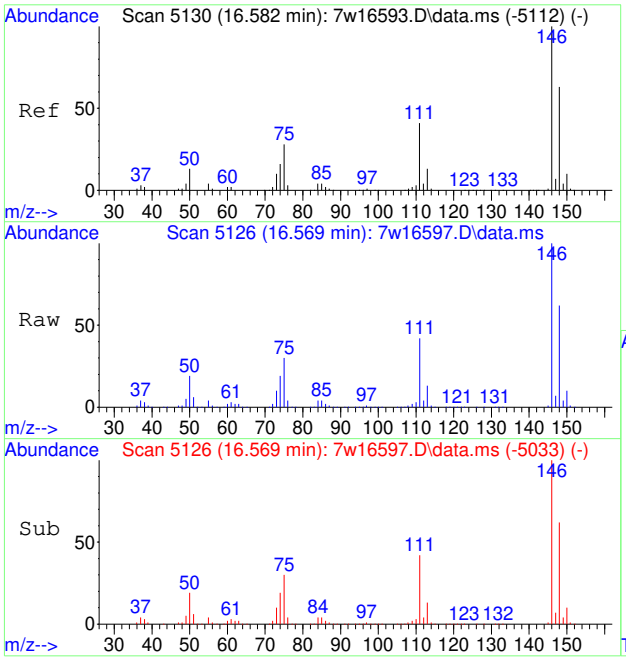


#97
BENZYL CHLORIDE
Concen: 10.58 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 464197

Ion	Ratio	Lower	Upper
91	100		
126	20.2	14.3	26.5
65	12.8	9.2	17.0

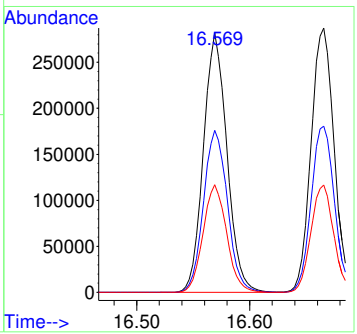


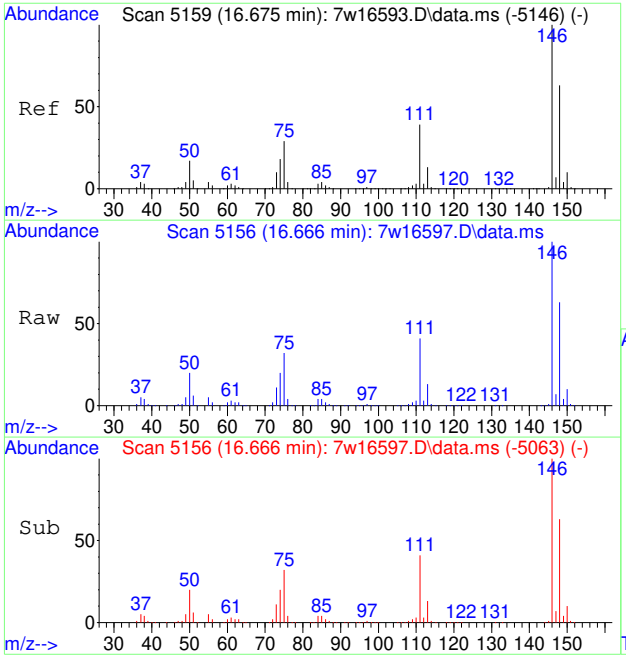


#98
M-DICHLOROBENZENE
Concen: 10.91 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 406824

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.6	82.8
111	41.7	29.3	54.3

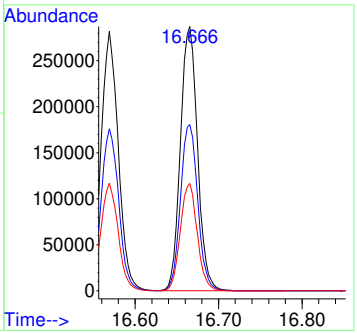


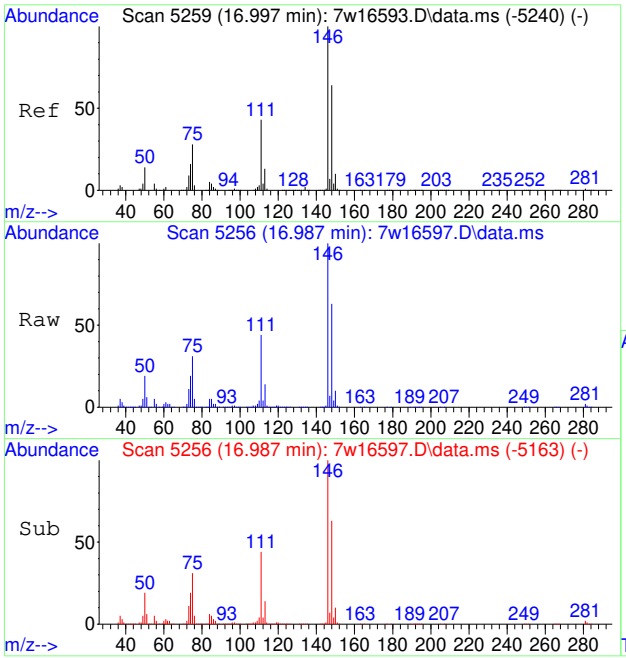


#99
P-DICHLOROBENZENE
Concen: 11.12 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 408776

Ion	Ratio	Lower	Upper
146	100		
148	63.5	44.2	82.2
111	40.2	28.0	52.0

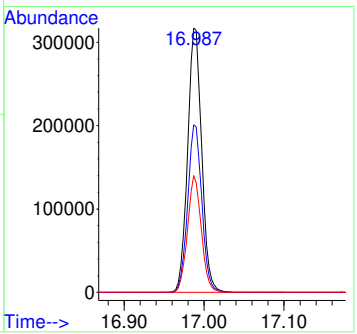


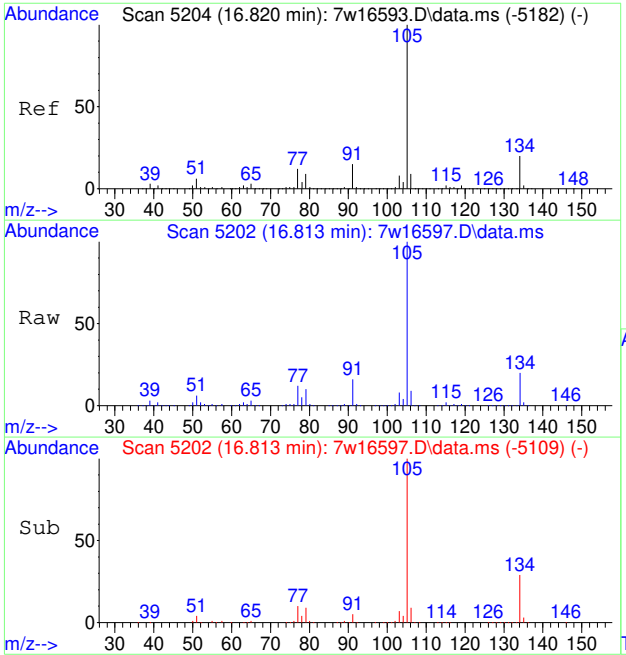


#100
O-DICHLOROBENZENE
Concen: 11.22 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 388114

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	43.4	30.4	56.4

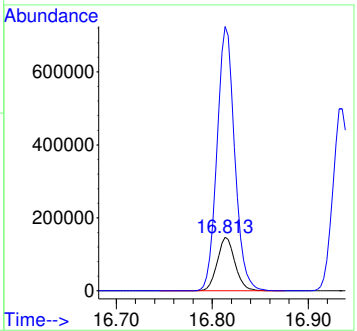


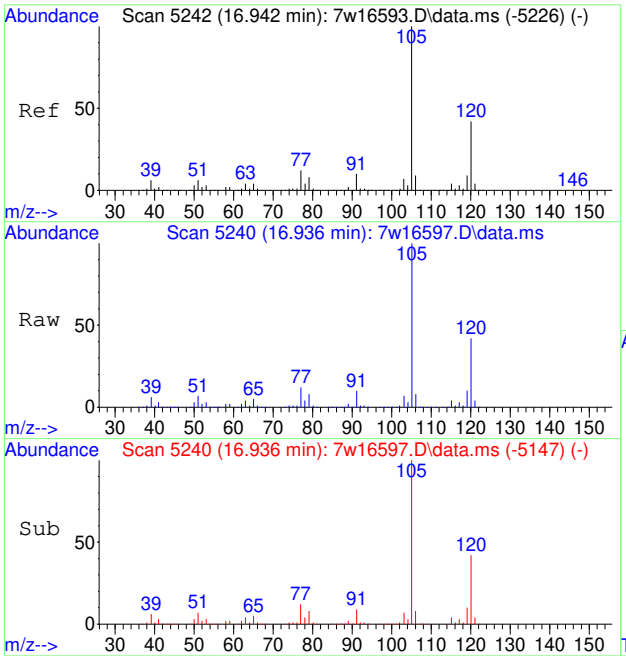


#101
SEC-BUTYLBENZENE
Concen: 11.81 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 187876

Ion	Ratio	Lower	Upper
134	100		
105	493.2	344.8	640.3

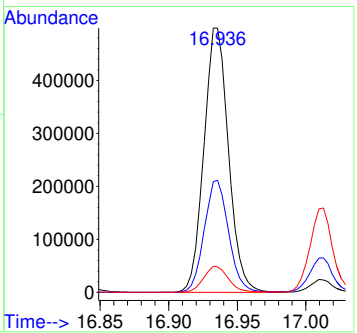


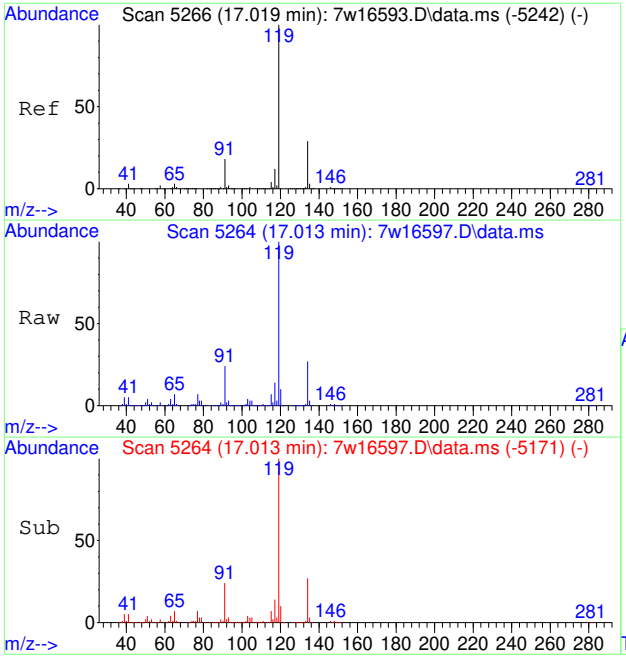


#102
1,2,3-TRIMETHYLBENZENE
Concen: 11.41 PPBV
RT: 16.936 min Scan# 5240
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 621174

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	10.0	7.0	13.0

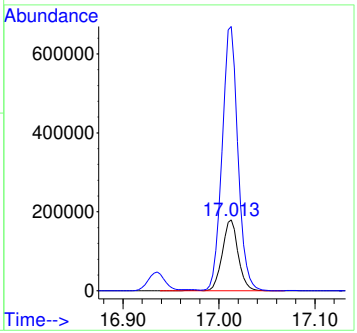


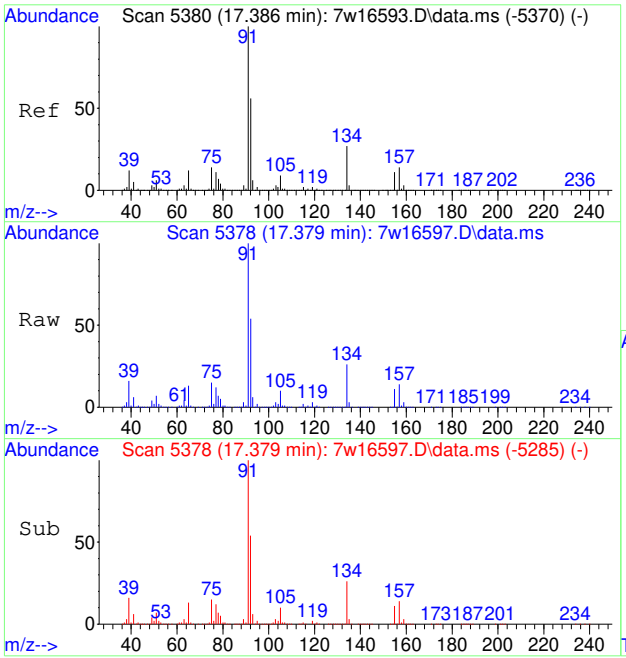


#103
P-ISOPROPYLTOLUENE
Concen: 11.68 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 206409

Ion	Ratio	Lower	Upper
134	100		
119	372.6	261.4	485.4

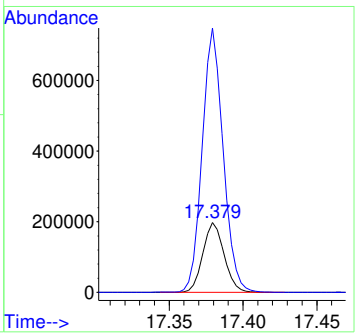


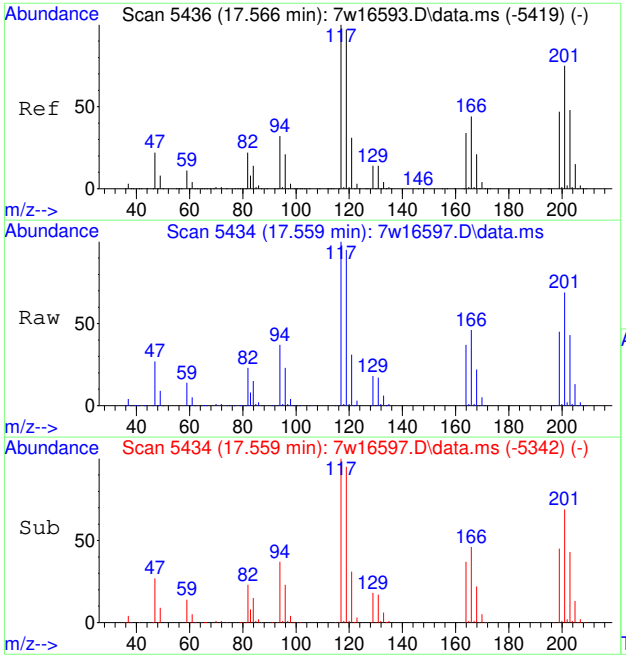


#104
N-BUTYLBENZENE
Concen: 11.69 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 197029

Ion	Ratio	Lower	Upper
134	100		
91	373.5	261.0	484.8

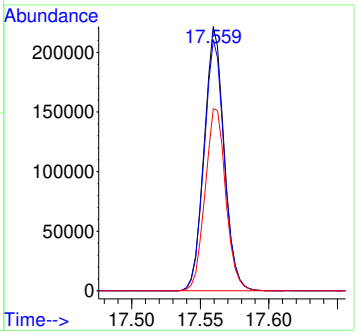


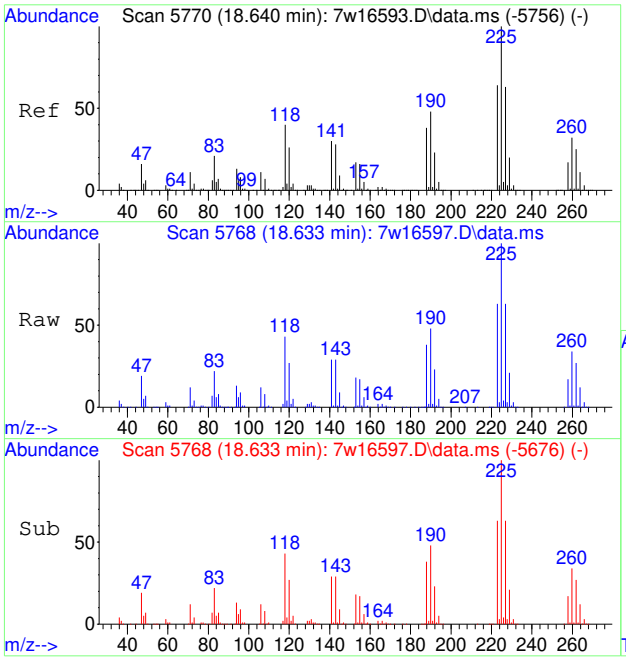


#105
HEXACHLOROETHANE
Concen: 10.80 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 224249

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	71.3	49.8	92.6

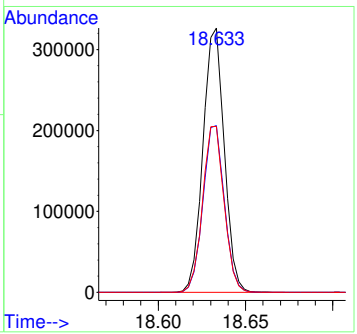


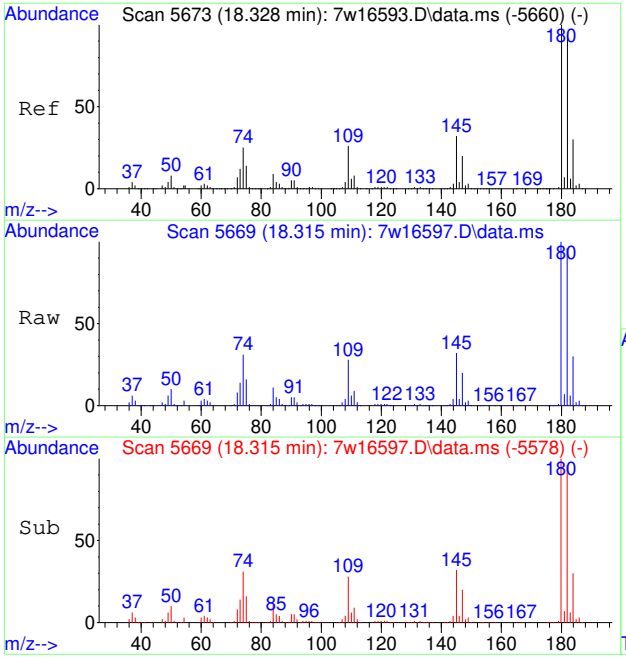


#106
HEXACHLOROBUTADIENE
Concen: 11.26 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:225 Resp: 277087

Ion	Ratio	Lower	Upper
225	100		
227	63.4	44.6	82.8
223	63.5	44.6	82.8

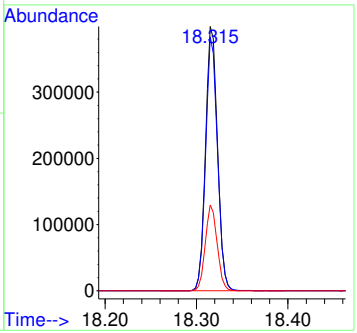


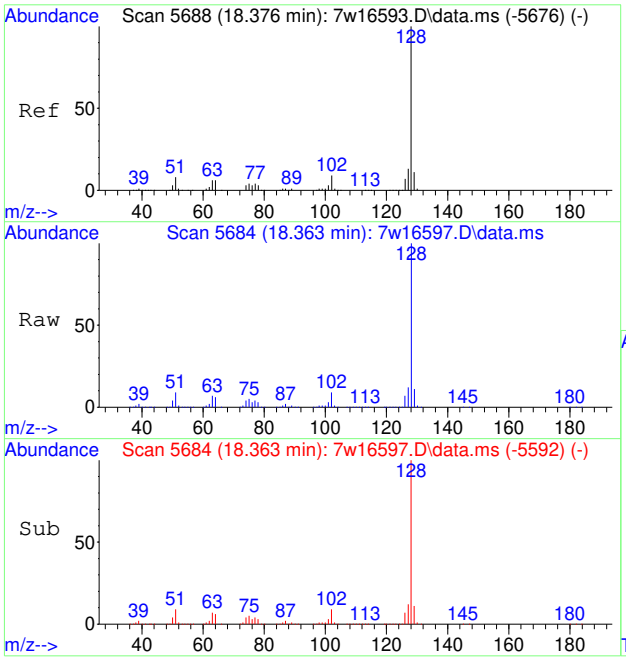


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.29 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:180 Resp: 362853

Ion	Ratio	Lower	Upper
180	100		
182	95.0	66.6	123.6
145	32.1	22.5	41.9

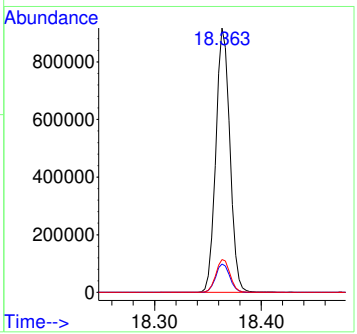


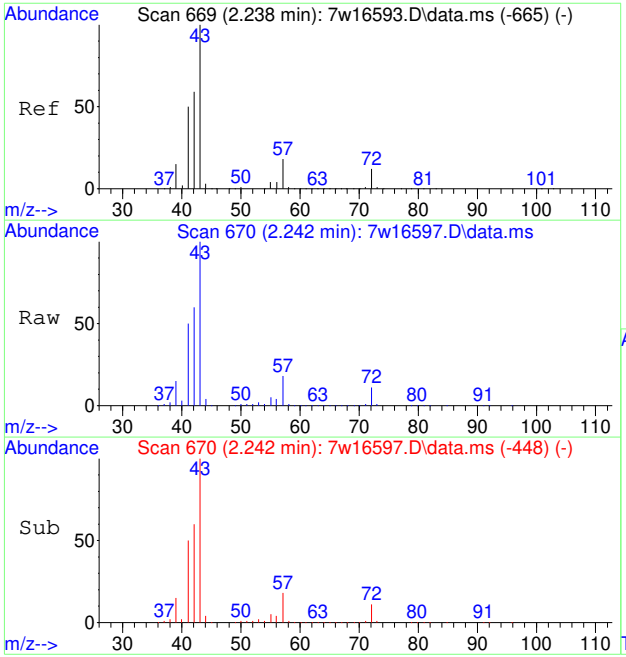


#108
NAPHTHALENE
Concen: 12.65 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:128 Resp: 837609

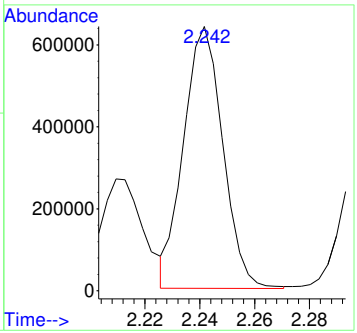
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.6	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 10.37 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:TIC Resp: 634578



Manual Integration Approval Summary

Sample Number: V7W577-ICV577
Lab FileID: 7W16597.D
Injection Time: 08/07/25 18:07

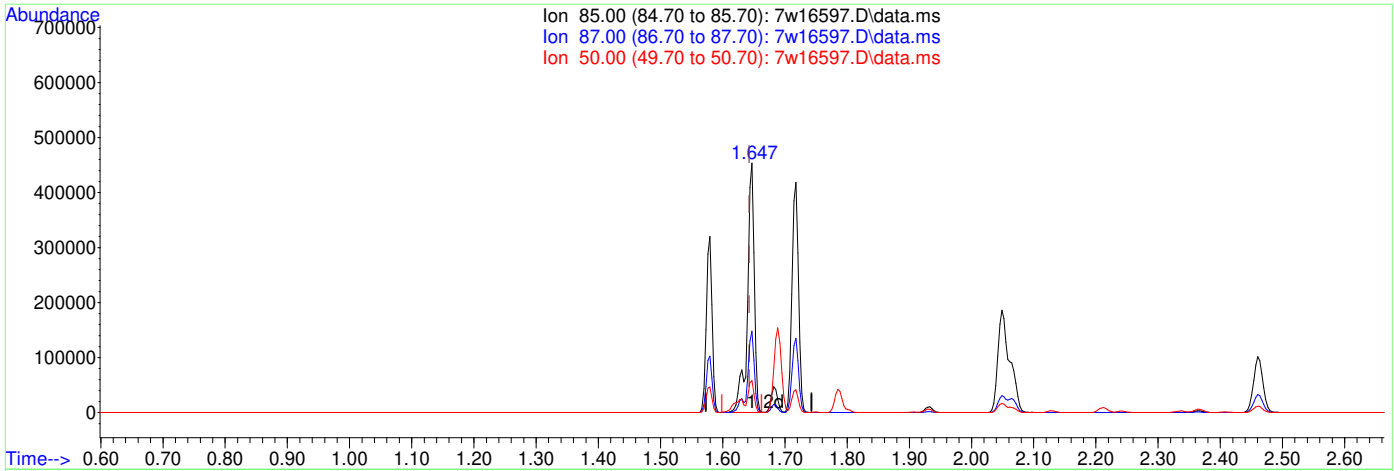
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

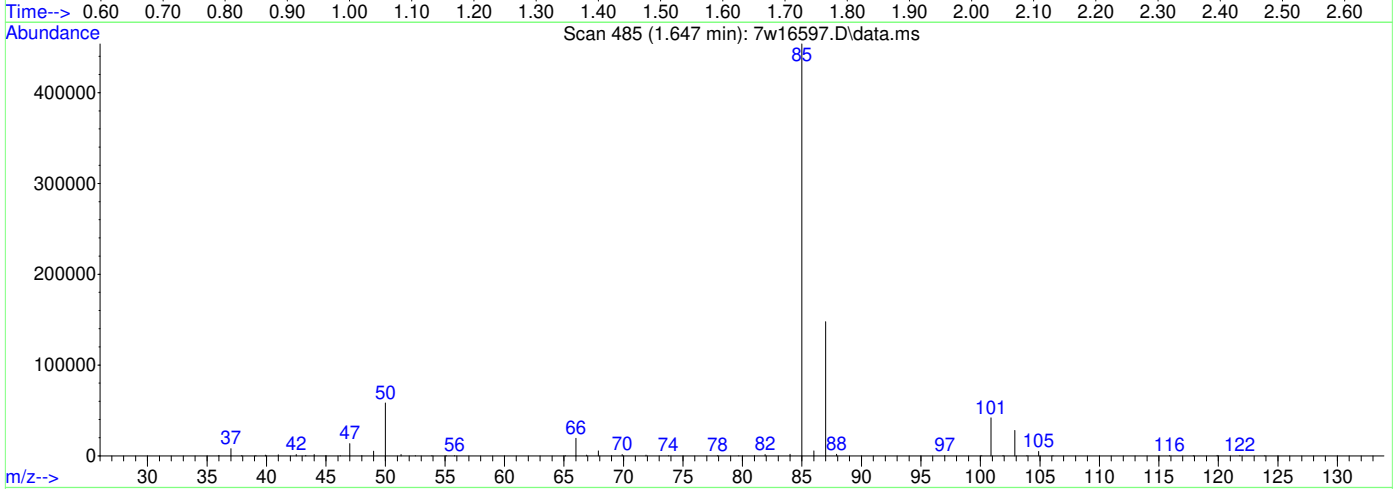
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.49PPBV

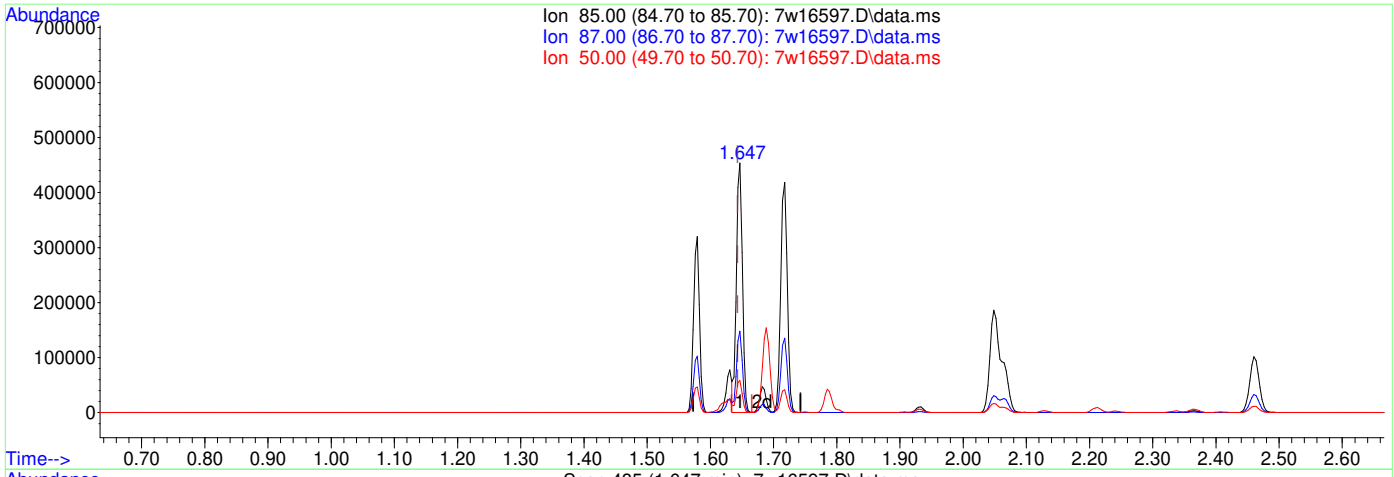
response 350117

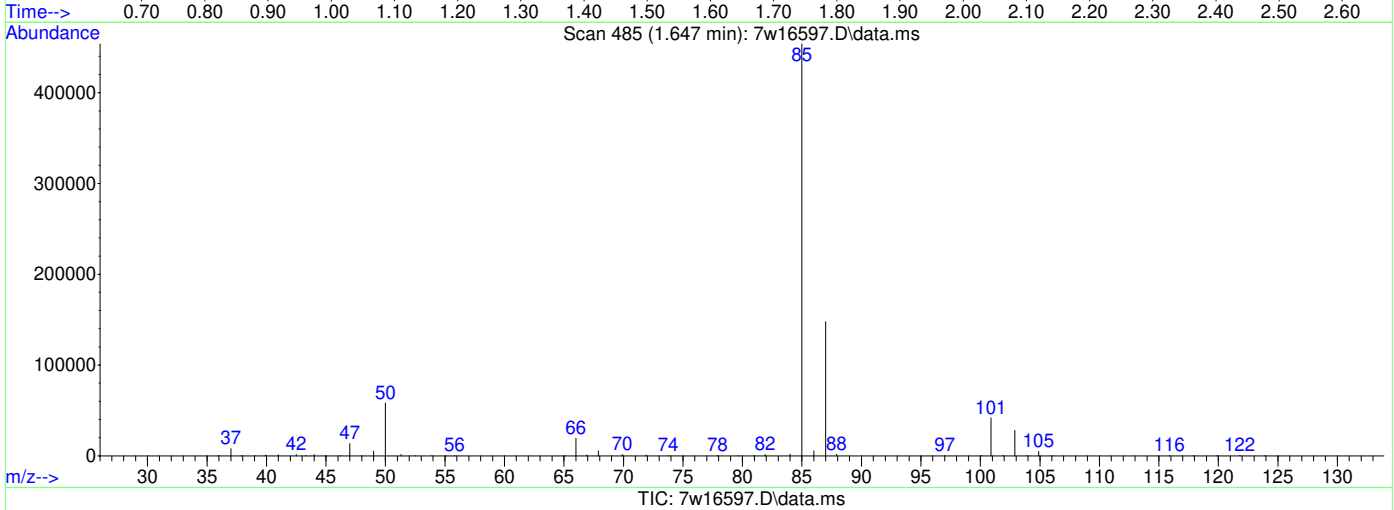
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.48
50.00	19.30	18.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 11.58PPBV m

response 300519

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.84
50.00	19.30	21.93
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	116358	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	571811	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	520899	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	116358	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	419664	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	163088	11.5539	PPBV		99
3) FREON 152A	1.608	65	78406	10.7669	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	33446	10.5791	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	175760	11.5540	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.647	85	290630m	10.4293	PPBV		
7) PROPYLENE	1.631	41	95474	10.1297	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.685	65	251622	10.1488	PPBV		98
9) FREON 114	1.717	85	287996	10.0264	PPBV		99
10) CHLOROMETHANE	1.688	52	32928	8.2395	PPBV		99
11) VINYL CHLORIDE	1.750	62	117529m	8.3053	PPBV		
12) 1,3-BUTADIENE	1.788	54	94511	8.4555	PPBV		99
13) N-BUTANE	1.801	43	162747	8.6049	PPBV	#	99
14) BROMOMETHANE	1.862	94	104528	9.5260	PPBV		99
15) CHLOROETHANE	1.910	64	64945	8.4552	PPBV		98
16) DICHLOROFLUOROMETHANE	1.933	67	245173	9.2174	PPBV		99
17) ACETONITRILE	1.997	41	92860	7.0259	PPBV		100
18) ACROLEIN	2.039	56	51884	8.2638	PPBV		96
19) FREON 123	2.052	83	271349	10.1251	PPBV		99
20) FREON 123A	2.068	117	167245	10.5339	PPBV		92
21) TRICHLOROFLUOROMETHANE	2.132	101	315449	10.4227	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	235756	9.1923	PPBV		97
23) ACETONE	2.074	58	61465	8.7655	PPBV		95
24) PENTANE	2.245	42	119731	8.6199	PPBV		97
25) IODOMETHANE	2.306	142	302044	10.8471	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.331	96	113502	9.8382	PPBV		92
27) CARBON DISULFIDE	2.466	76	295672	9.0324	PPBV		99
28) ETHANOL	1.936	45	59610	8.7303	PPBV		99
29) BROMOETHENE	2.007	106	107454	9.7540	PPBV		99
30) ACRYLONITRILE	2.212	52	90680	9.1962	PPBV		99
31) METHYLENE CHLORIDE	2.370	84	100570	8.8927	PPBV		93
32) 3-CHLOROPROPENE	2.412	76	53228	8.6257	PPBV		93
33) FREON 113	2.463	151	192366	11.0698	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	109522	8.6284	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.341	59	225238	7.0292	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.794	73	341132	9.4479	PPBV		99
37) TETRAHYDROFURAN	3.470	72	54436	9.2961	PPBV		95
38) HEXANE	3.241	57	232201	9.5475	PPBV		98
39) VINYL ACETATE	2.830	86	33655	9.6975	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	237635	9.6844	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	63349	9.5459	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	132822	10.0880	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	63810	9.2540	PPBV		100
44) ETHYL ACETATE	3.251	61	46222	9.9155	PPBV		95
45) METHYL ACRYLATE	3.238	55	279714	9.5047	PPBV	#	100
46) CHLOROFORM	3.264	83	263663	10.3820	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	269103	9.8861	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.823	97	276035	10.3131	PPBV		98
49) CARBON TETRACHLORIDE	4.241	117	297702	10.7365	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	188951	9.5709	PPBV		98
51)	BENZENE	4.129	78	381313	9.7878	PPBV		98
53)	CYCLOHEXANE	4.335	84	171831	10.2715	PPBV		97
54)	2,3-DIMETHYLPENTANE	4.589	71	88073	10.5570	PPBV		96
55)	TRICHLOROETHENE	5.016	95	178344	10.0006	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	154813	9.8220	PPBV		98
57)	DIBROMOMETHANE	4.743	174	188737	12.4198	PPBV		83
58)	ETHYL ACRYLATE	4.900	55	346044	9.8087	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	296039	10.2746	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	724407	9.3827	PPBV		100
61)	1,4-DIOXANE	5.026	88	84481	10.0079	PPBV		99
62)	HEPTANE	5.421	43	242704	9.5206	PPBV		99
63)	METHYL METHACRYLATE	5.318	69	141707	9.8923	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.042	58	136844	8.9515	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	241996	10.0129	PPBV		96
66)	TOLUENE	7.132	91	473872	10.4370	PPBV		100
67)	1,3-DICHLOROPROPANE	7.190	76	243885	10.7144	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	209221	9.5814	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	138459	10.7019	PPBV		98
70)	2-HEXANONE	7.695	58	182994	8.5789	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	239373	10.0176	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	212743	12.8459	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.659	129	308693	11.7409	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	262168	11.2010	PPBV	#	100
75)	OCTANE	8.997	43	337681	9.8888	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	210593	11.2663	PPBV		98
78)	CHLOROBENZENE	10.048	112	390632	10.9774	PPBV		99
79)	ETHYLBENZENE	10.923	91	645828	11.0755	PPBV		100
80)	M,P-XYLENE	11.350	91	1003032	21.2340	PPBV		99
81)	O-XYLENE	12.280	91	508409	11.0892	PPBV		99
82)	STYRENE	12.067	104	391110	11.3791	PPBV		100
83)	NONANE	13.402	43	357527	10.0182	PPBV		99
84)	BROMOFORM	11.161	173	339077	15.4206	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	359106	10.9346	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	284105	11.0378	PPBV		100
88)	ISOPROPYLBENZENE	13.784	120	187852	10.7786	PPBV		100
89)	BROMOBENZENE	13.649	77	350259	10.4642	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	174412	10.7299	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	200624	10.8459	PPBV		100
92)	4-ETHYLTOLUENE	15.572	105	742643	10.8486	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	627675	11.0172	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.177	118	303322	10.7352	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	142496	10.2586	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	636713	11.2732	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	447528	9.8079	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	414699	10.6869	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	418016	10.9323	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	390320	10.8435	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	174245	10.5345	PPBV		89
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	612606	10.8197	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	192380	10.4645	PPBV		89
104)	N-BUTYLBENZENE	17.379	134	188579	10.7594	PPBV		93
105)	HEXACHLOROETHANE	17.556	117	249595	11.5593	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.623	225	486999	19.0236	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	498080	16.2228	PPBV		97
108)	NAPHTHALENE	18.360	128	949889	13.7917	PPBV		99
110)	TVHC as equiv Pentane	2.245	TIC	588522	8.9611	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

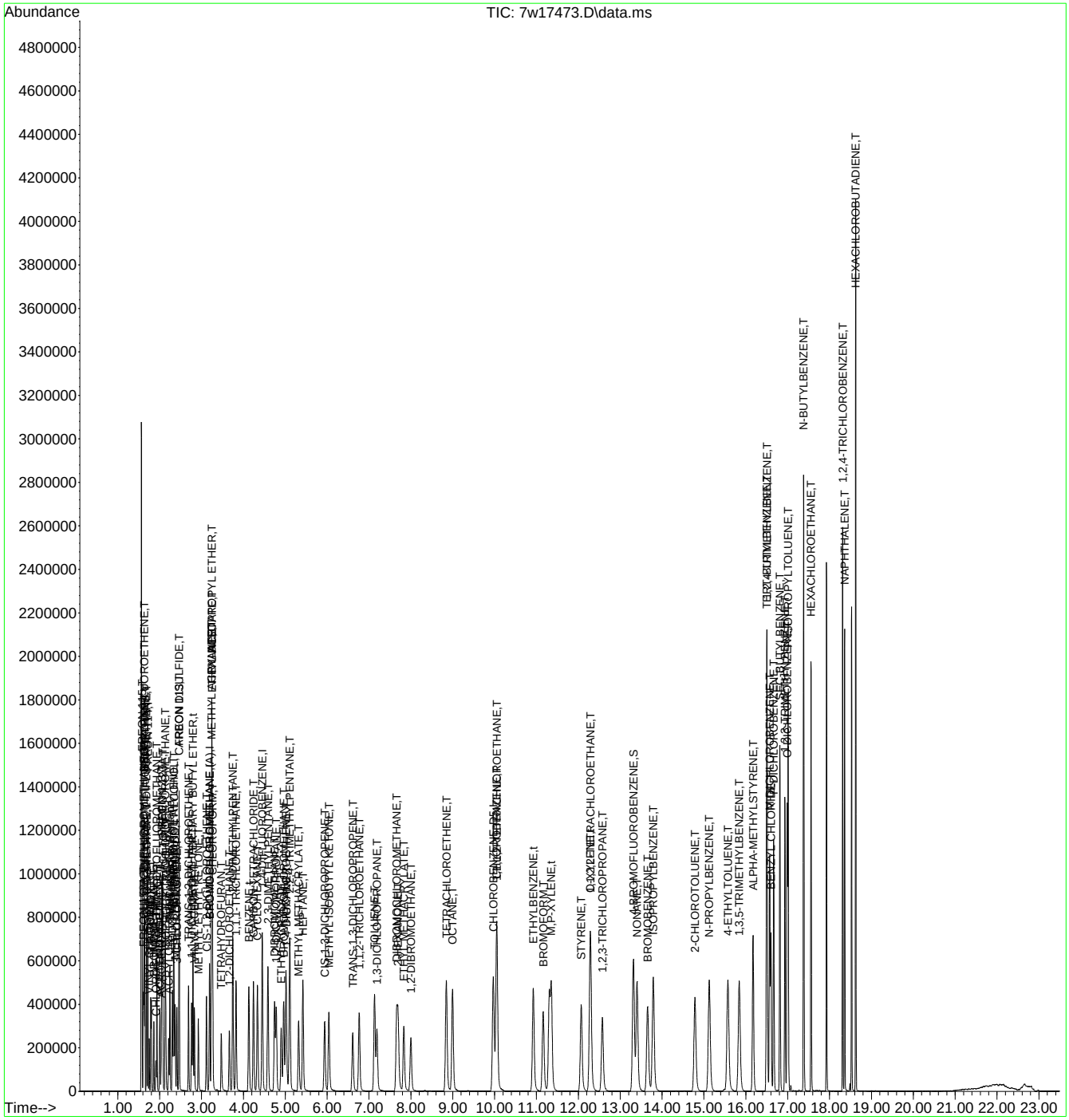
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

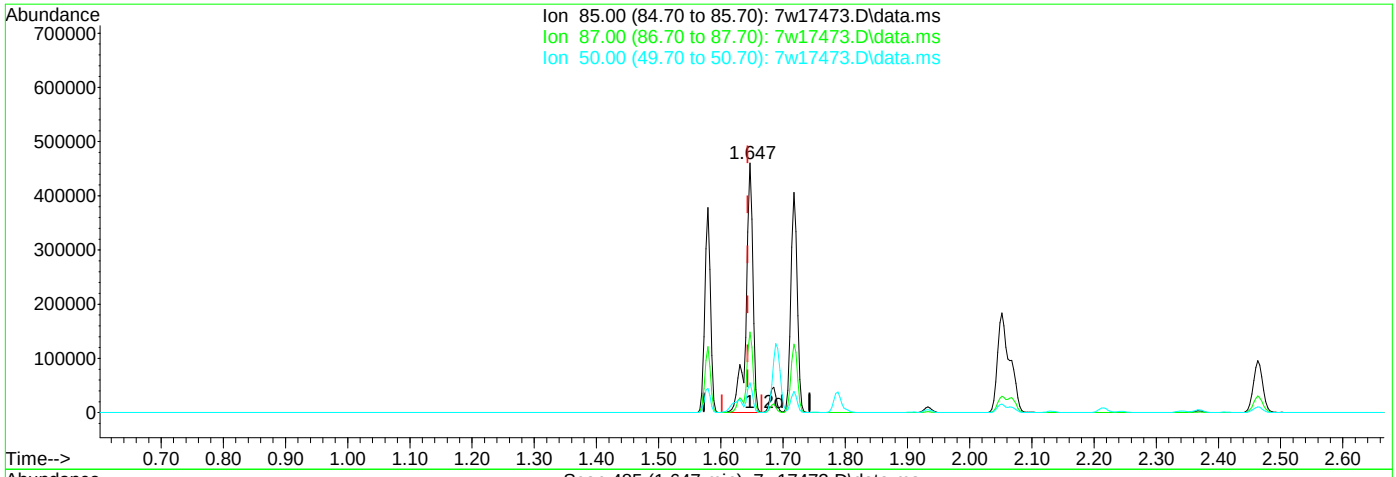
Sample Number: V7W613-CC577 **Method:** TO-15
Lab FileID: 7W17473.D **Analyst approved:** 09/29/25 13:49 Kristel Valladolid
Injection Time: 09/26/25 11:04 **Supervisor approved:** 09/29/25 15:16 Kanya Veerawat

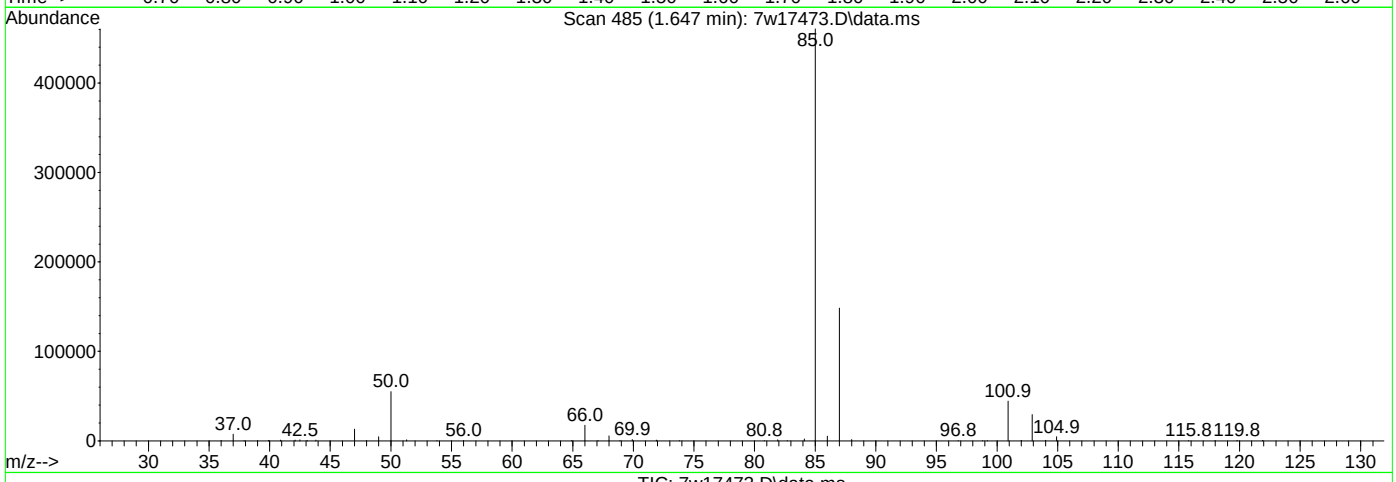
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

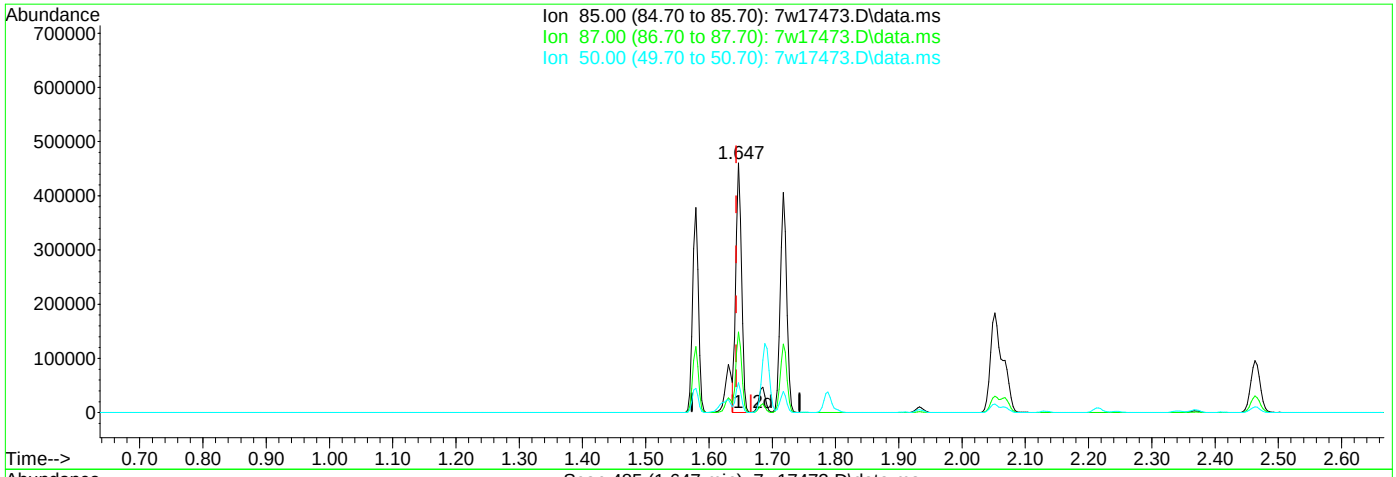
response 355281

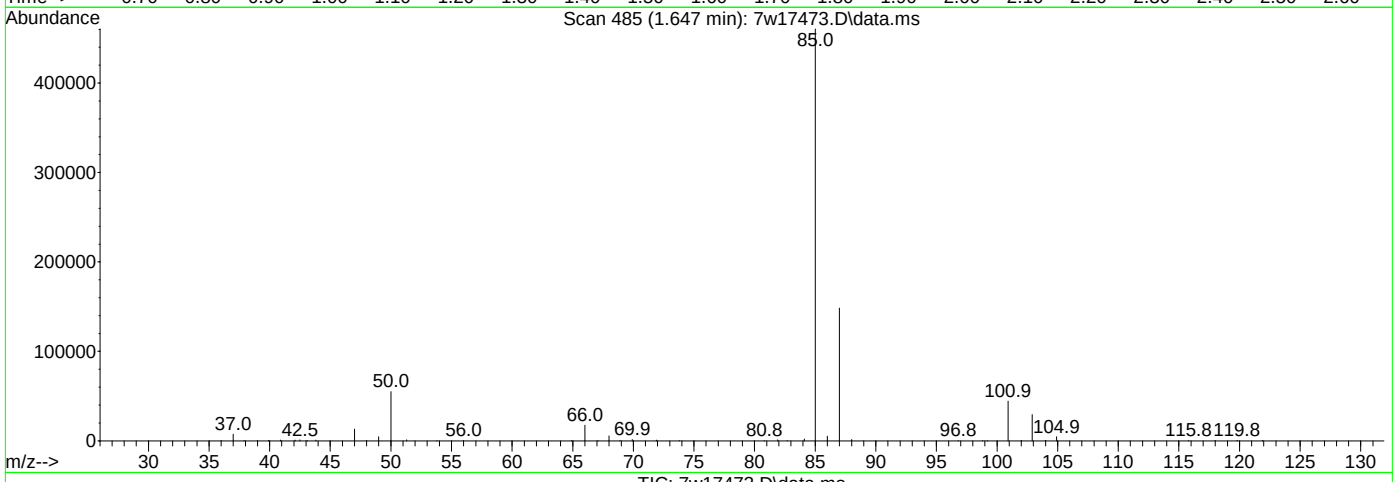
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.57
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.43PPBV m

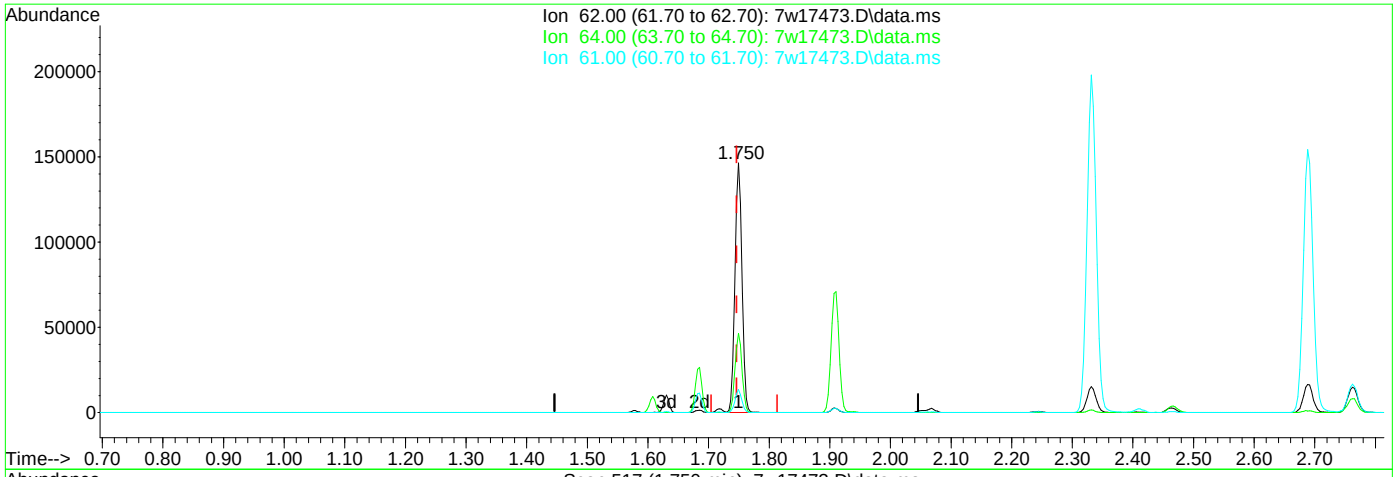
response 290630

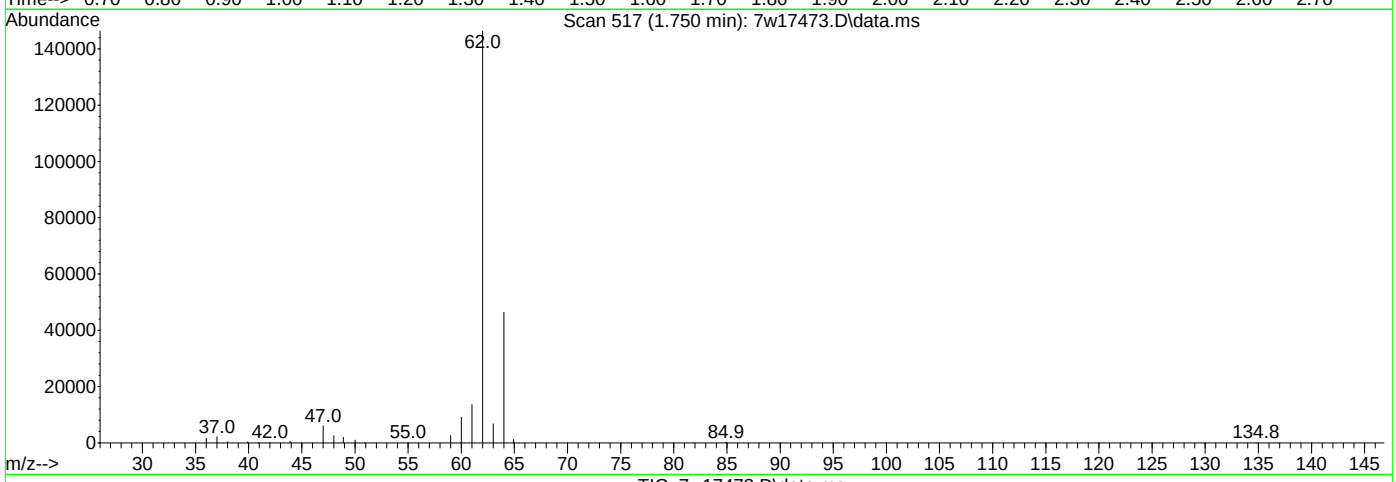
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.81
50.00	19.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.43PPBV

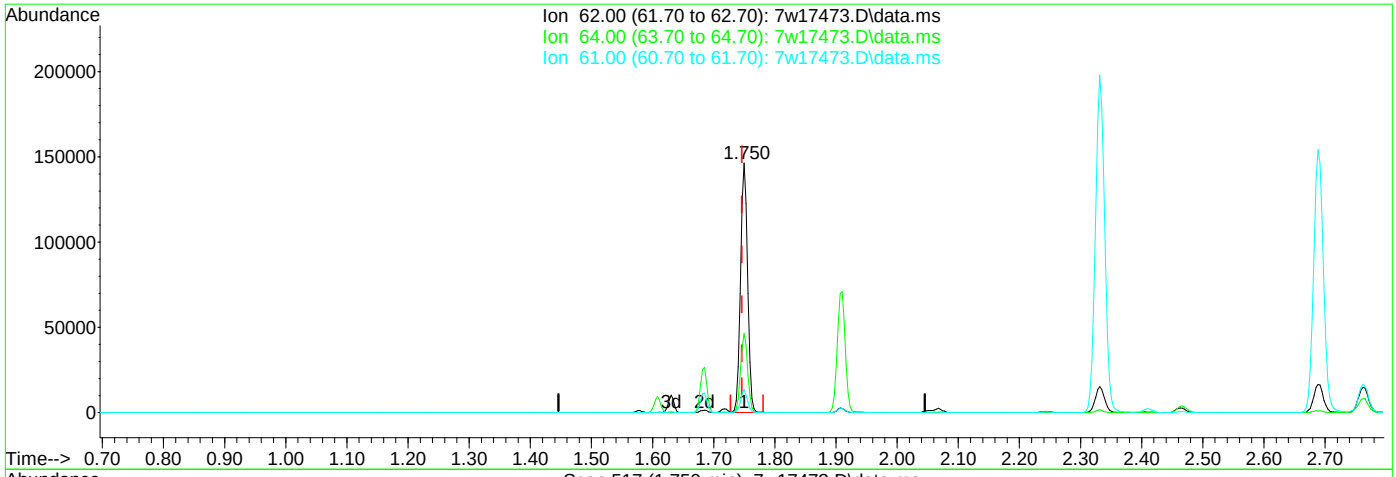
response 119282

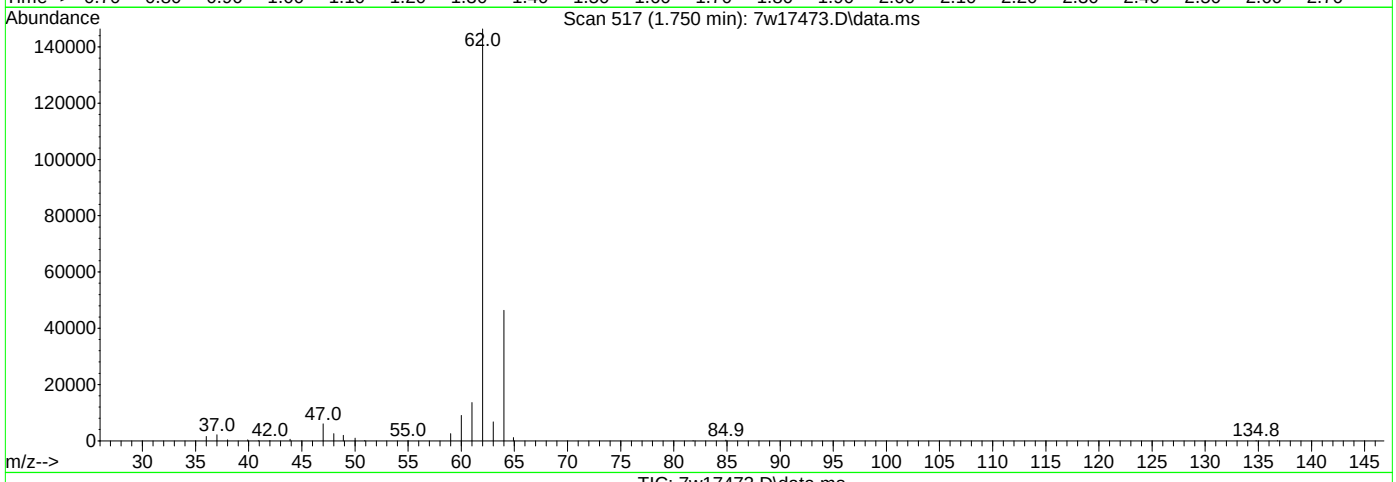
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.24
61.00	8.10	8.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.31PPBV m

response 117529

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.70
61.00	8.10	8.97
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	133953	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659891	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	616286	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133953	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	503374	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	177470	10.9213	PPBV		100
3) FREON 152A	1.605	65	90758	10.8260	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	39420	10.8310	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.627	116	194541	11.1088	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	337777m	10.5290	PPBV		
7) PROPYLENE	1.627	41	108538	10.0032	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	299323	10.4870	PPBV		99
9) FREON 114	1.714	85	325416	9.8410	PPBV		98
10) CHLOROMETHANE	1.688	52	38366	8.3392	PPBV		97
11) VINYL CHLORIDE	1.746	62	139139m	8.5409	PPBV		
12) 1,3-BUTADIENE	1.785	54	109057	8.4753	PPBV		98
13) N-BUTANE	1.801	43	189643	8.7099	PPBV		100
14) BROMOMETHANE	1.859	94	118438	9.3759	PPBV		100
15) CHLOROETHANE	1.907	64	75846	8.5774	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	291881	9.5320	PPBV		99
17) ACETONITRILE	1.997	41	106769	7.0172	PPBV		99
18) ACROLEIN	2.032	56	59014	8.1648	PPBV		97
19) FREON 123	2.049	83	307928	9.9807	PPBV		98
20) FREON 123A	2.065	117	191785	10.4929	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.129	101	361225	10.3675	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	295804	10.0186	PPBV		98
23) ACETONE	2.071	58	72600	8.9935	PPBV		94
24) PENTANE	2.241	42	134532	8.4133	PPBV		94
25) IODOMETHANE	2.303	142	343257	10.7080	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	131850	9.9274	PPBV		96
27) CARBON DISULFIDE	2.463	76	340942	9.0473	PPBV		99
28) ETHANOL	1.936	45	58995	7.5054	PPBV		99
29) BROMOETHENE	2.004	106	122429	9.6535	PPBV		99
30) ACRYLONITRILE	2.213	52	102848	9.0602	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	114935	8.8279	PPBV		92
32) 3-CHLOROPROPENE	2.409	76	61802	8.6996	PPBV		93
33) FREON 113	2.463	151	221690	11.0816	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.688	96	125441	8.5845	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	280149	7.5945	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.791	73	399208	9.6040	PPBV		100
37) TETRAHYDROFURAN	3.470	72	61872	9.1781	PPBV		98
38) HEXANE	3.241	57	266824	9.5301	PPBV		99
39) VINYL ACETATE	2.827	86	38741	9.6968	PPBV		94
40) 1,1-DICHLOROETHANE	2.762	63	263022	9.3110	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	70574	9.2377	PPBV		100
42) CIS-1,2-DICHLOROETHENE	3.116	96	150241	9.9121	PPBV		98
43) DIISOPROPYL ETHER	3.245	59	75359	9.4934	PPBV		96
44) ETHYL ACETATE	3.251	61	54193	10.0984	PPBV		90
45) METHYL ACRYLATE	3.235	55	329510	9.7261	PPBV	#	100
46) CHLOROFORM	3.264	83	301131	10.2998	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313300	9.9979	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	319066	10.3549	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	341442	10.6965	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224067	9.8589	PPBV		99
51)	BENZENE	4.129	78	427351	9.5286	PPBV		99
53)	CYCLOHEXANE	4.335	84	192042	9.9473	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.585	71	99357	10.3199	PPBV		99
55)	TRICHLOROETHENE	5.013	95	200744	9.7542	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181431	9.9743	PPBV		99
57)	DIBROMOMETHANE	4.746	174	218086	12.4356	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	407383	10.0060	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	336180	10.1104	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	841343	9.4428	PPBV		100
61)	1,4-DIOXANE	5.026	88	98685	10.1301	PPBV		99
62)	HEPTANE	5.418	43	279169	9.4893	PPBV		98
63)	METHYL METHACRYLATE	5.319	69	162132	9.8075	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.039	58	162679	9.2211	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	278200	9.9744	PPBV		97
66)	TOLUENE	7.129	91	538193	10.2715	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	272716	10.3818	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	244994	9.7221	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	157387	10.5412	PPBV		98
70)	2-HEXANONE	7.695	58	218019	8.8566	PPBV		97
71)	ETHYL METHACRYLATE	7.833	69	275154	9.9781	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	251471	13.1576	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.662	129	353185	11.6401	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	300394	11.1211	PPBV	#	99
75)	OCTANE	8.997	43	388518	9.8589	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	242787	10.9783	PPBV		97
78)	CHLOROBENZENE	10.045	112	443864	10.5427	PPBV		99
79)	ETHYLBENZENE	10.923	91	739788	10.7232	PPBV		99
80)	M,P-XYLENE	11.347	91	1153457	20.6391	PPBV		98
81)	O-XYLENE	12.273	91	584599	10.7774	PPBV		99
82)	STYRENE	12.067	104	445360	10.9519	PPBV		99
83)	NONANE	13.402	43	410336	9.7183	PPBV		98
84)	BROMOFORM	11.161	173	398925	15.3343	PPBV	#	96
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	414118	10.6580	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	327867	10.7664	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	214666	10.4107	PPBV		99
89)	BROMOBENZENE	13.649	77	401712	10.1439	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	197839	10.2874	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	227675	10.4033	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	857338	10.5856	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	716951	10.6365	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.173	118	346037	10.3514	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	159454	9.7027	PPBV		83
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	732817	10.9666	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	536086	9.9303	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	474032	10.3252	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	478030	10.5669	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	449579	10.5567	PPBV		98
101)	SEC-BUTYLBENZENE	16.813	134	199209	10.1797	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	704353	10.5147	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	218072	10.0260	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	212975	10.2706	PPBV		90
105)	HEXACHLOROETHANE	17.556	117	276086	10.8071	PPBV	#	85
106)	HEXACHLOROBUTADIENE	18.620	225	558862	18.4519	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.308	180	562805	15.4937	PPBV		97
108)	NAPHTHALENE	18.357	128	1051771	12.9074	PPBV		99
110)	TVHC as equiv Pentane	2.241	TIC	662208	8.7586	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

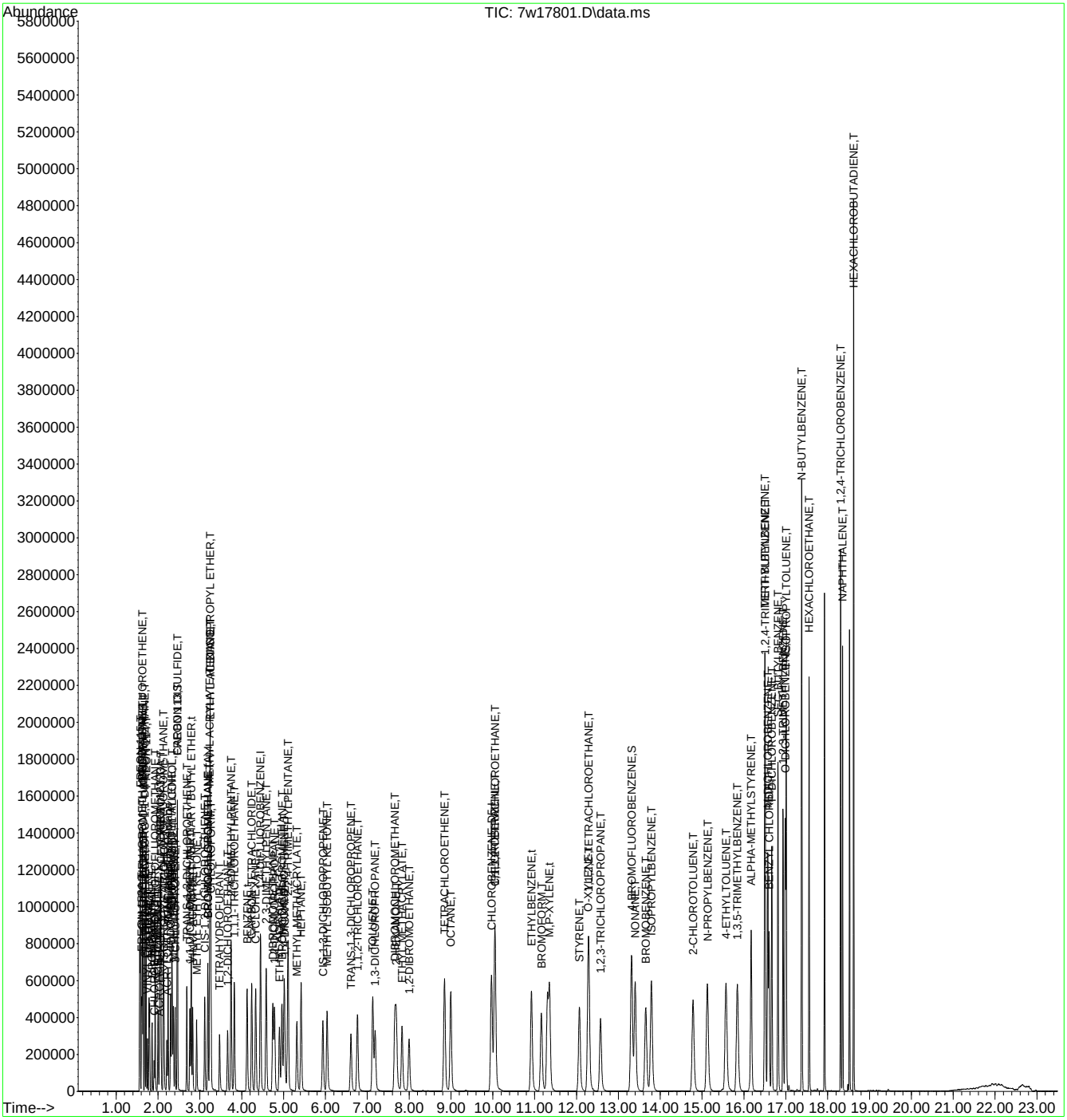
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

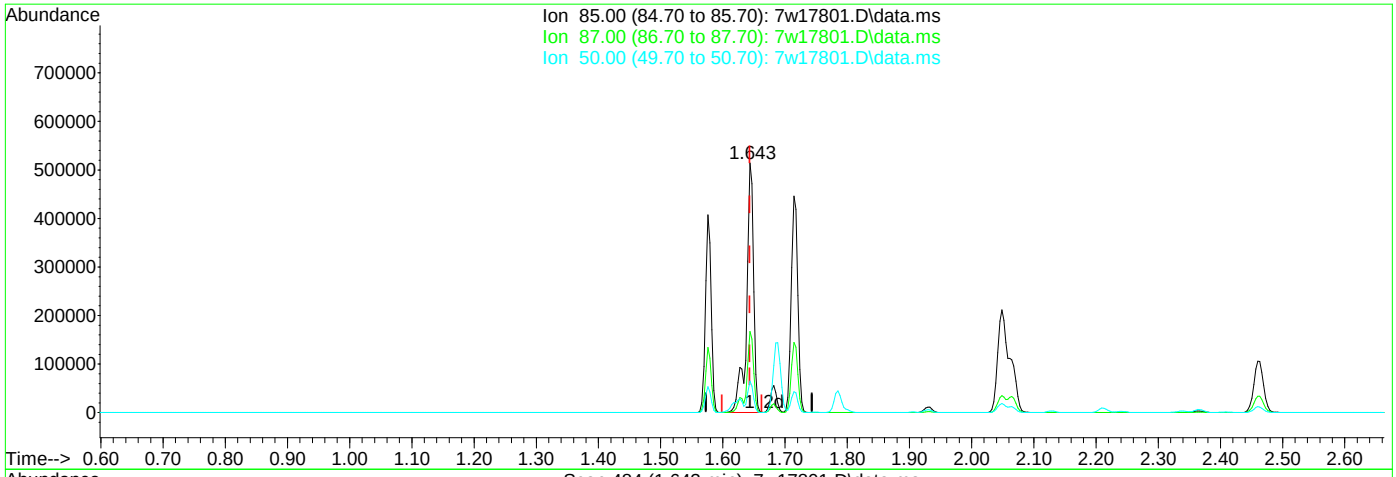
Sample Number: V7W624-CC577
Lab FileID: 7W17801.D
Injection Time: 10/13/25 11:18
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

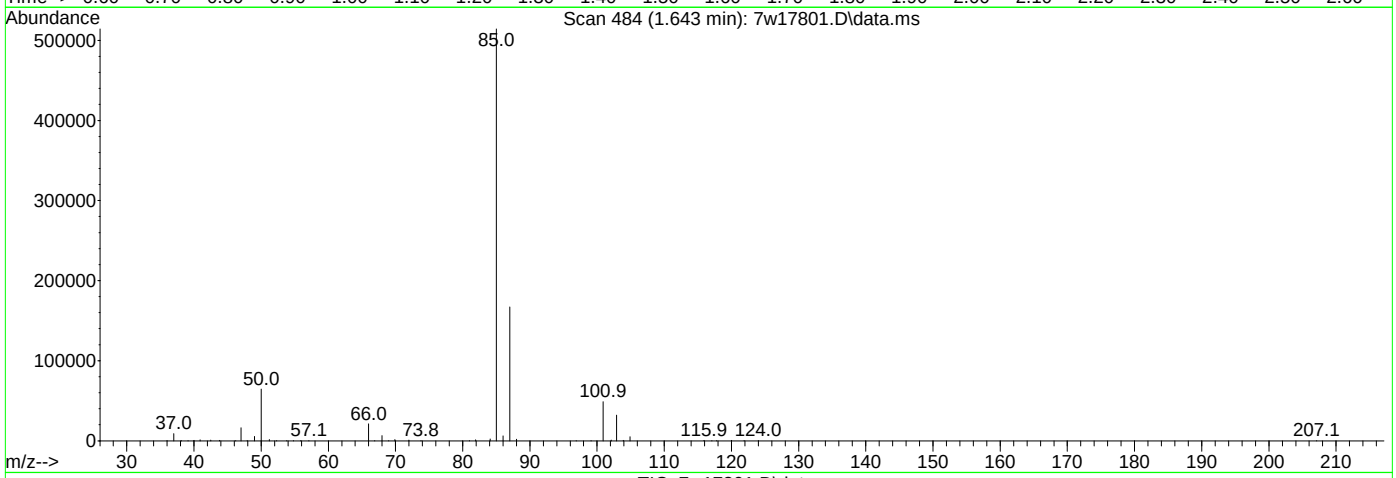
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 12.63PPBV

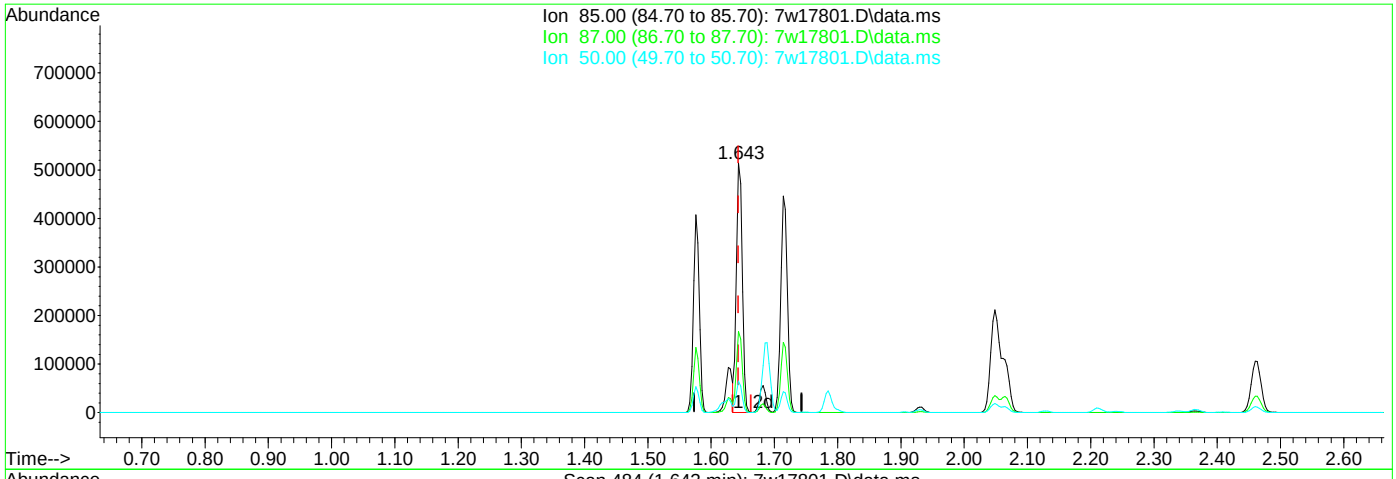
response 405326

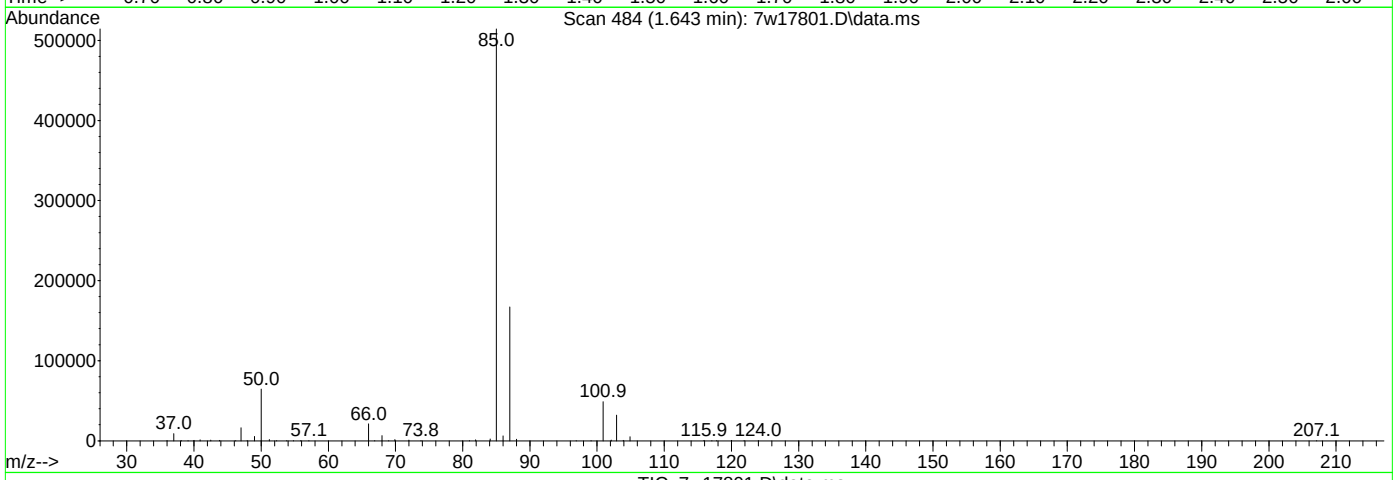
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.32
50.00	19.30	18.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 10.53PPBV m

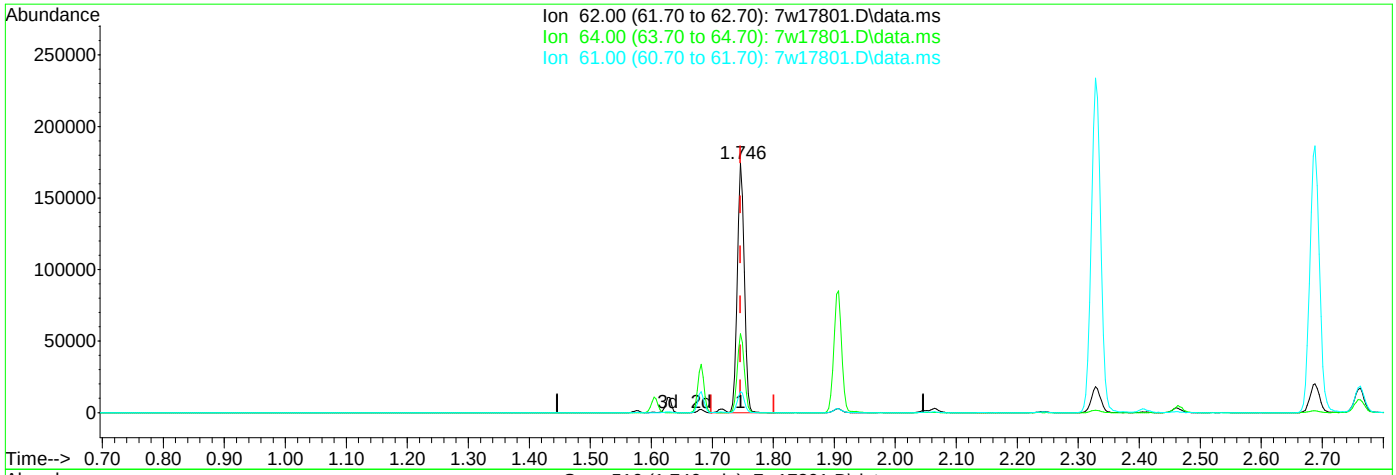
response 337777

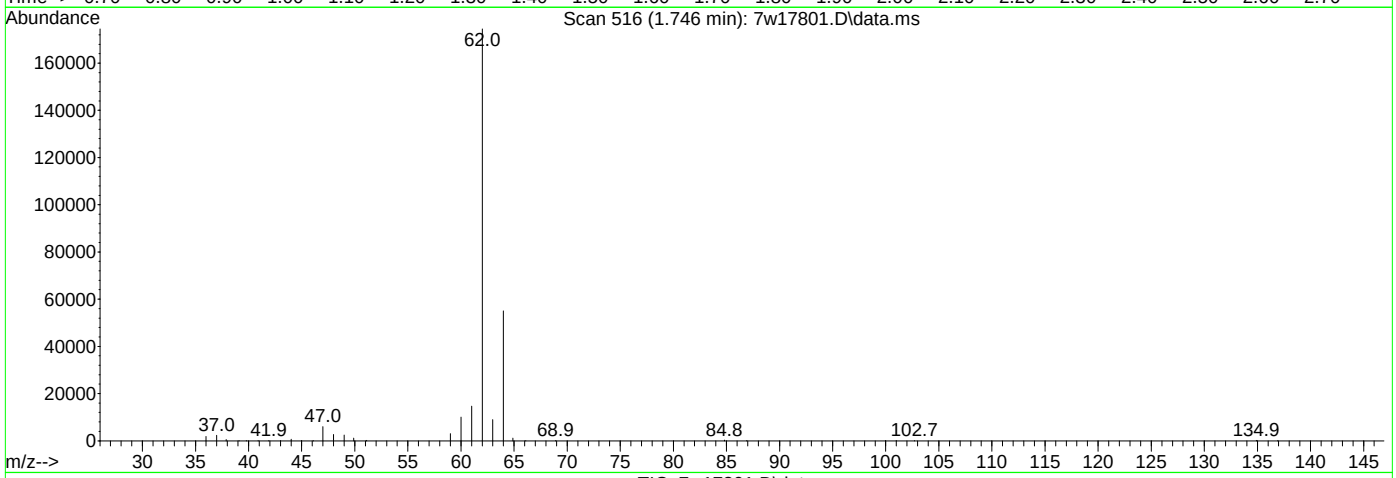
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.66PPBV

response 141102

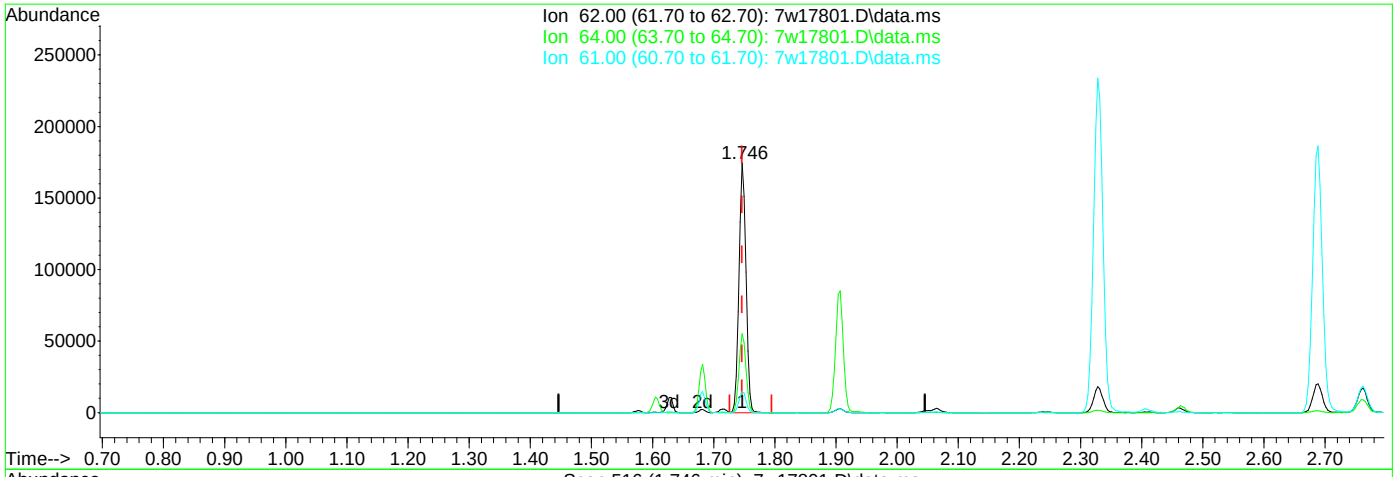
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.50
61.00	8.10	8.41
0.00	0.00	0.00

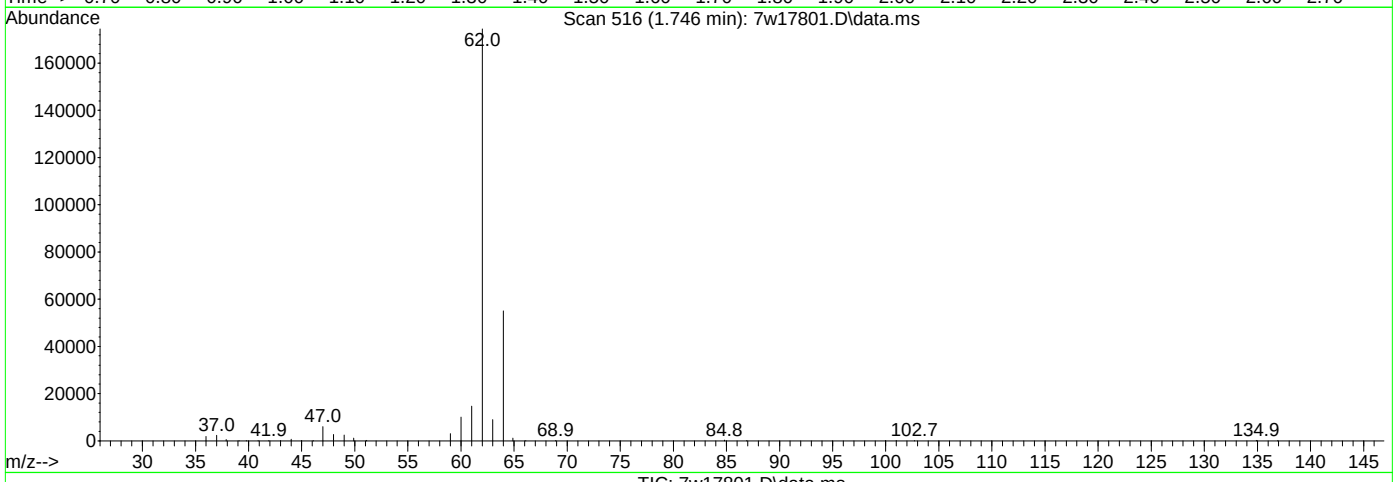
7W17801.D edits: VINYL CHLORIDE

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.54PPBV m

response 139139

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.95
61.00	8.10	8.53
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/25/25 18:38

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:54:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	121736	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	577477	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	541499	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	121736	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	411407	9.44	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	163218	11.0523	PPBV		84
3) FREON 152A	1.605	65	66946	8.7870	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	34506	10.4323	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.628	116	173363	10.8929	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	336062m	11.5269	PPBV		
7) PROPYLENE	1.628	41	77638	7.8734	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	316662	12.2079	PPBV		95
9) FREON 114	1.714	85	305749	10.1742	PPBV		89
10) CHLOROMETHANE	1.685	52	40501	9.6868	PPBV		88
11) VINYL CHLORIDE	1.747	62	143784	9.7118	PPBV		99
12) 1,3-BUTADIENE	1.785	54	115935	9.9140	PPBV		92
13) N-BUTANE	1.798	43	176392	8.9143	PPBV		96
14) BROMOMETHANE	1.856	94	115966	10.1015	PPBV		99
15) CHLOROETHANE	1.904	64	72717	9.0488	PPBV		98
16) DICHLOROFLUOROMETHANE	1.930	67	275722	9.9080	PPBV		98
17) ACETONITRILE	1.994	41	105246	7.6113	PPBV		100
18) ACROLEIN	2.033	56	68255	10.3910	PPBV		98
19) FREON 123	2.046	83	281916	10.0546	PPBV	#	96
20) FREON 123A	2.065	117	209037	12.5846	PPBV		78
21) TRICHLOROFLUOROMETHANE	2.126	101	388555	12.2710	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	288126	10.7379	PPBV		97
23) ACETONE	2.071	58	80216	10.9342	PPBV		89
24) PENTANE	2.238	42	133496	9.1863	PPBV		94
25) IODOMETHANE	2.300	142	351355	12.0605	PPBV		93
26) 1,1-DICHLOROETHYLENE	2.325	96	128854	10.6755	PPBV		93
27) CARBON DISULFIDE	2.460	76	313951	9.1671	PPBV		97
28) ETHANOL	1.933	45	60248	8.4340	PPBV		99
29) BROMOETHENE	2.004	106	121517	10.5432	PPBV		99
30) ACRYLONITRILE	2.210	52	115506	11.1965	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	105578	8.9231	PPBV		94
32) 3-CHLOROPROPENE	2.406	76	54715	8.4750	PPBV		84
33) FREON 113	2.460	151	220065	12.1043	PPBV		93
34) TRANS-1,2-DICHLOROETHENE	2.685	96	126438	9.5211	PPBV		95
35) TERTIARY BUTYL ALCOHOL	2.335	59	292273	8.7183	PPBV		94
36) METHYL TERTIARY BUTYL ...	2.792	73	326551	8.6445	PPBV		99
37) TETRAHYDROFURAN	3.470	72	44483	7.2608	PPBV		98
38) HEXANE	3.238	57	230810	9.0711	PPBV		93
39) VINYL ACETATE	2.827	86	28321	7.8001	PPBV		87
40) 1,1-DICHLOROETHANE	2.759	63	258137	10.0551	PPBV		98
41) METHYL ETHYL KETONE	2.920	72	51401	7.4033	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.113	96	120966	8.7816	PPBV		96
43) DIISOPROPYL ETHER	3.245	59	65243	9.0438	PPBV		73
44) ETHYL ACETATE	3.248	61	44259	9.0750	PPBV		76
45) METHYL ACRYLATE	3.235	55	279228	9.0690	PPBV	#	99
46) CHLOROFORM	3.261	83	253094	9.5255	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	268205	9.4178	PPBV		97
48) 1,1,1-TRICHLOROETHANE	3.824	97	297418	10.6211	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	336364	11.5949	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:54:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.660	62	207500	10.0462	PPBV	98
51)	BENZENE	4.126	78	309117	7.5841	PPBV	94
53)	CYCLOHEXANE	4.332	84	141568	8.3794	PPBV	84
54)	2,3-DIMETHYLPENTANE	4.582	71	68696	8.1536	PPBV	65
55)	TRICHLOROETHENE	5.013	95	170433	9.4633	PPBV	96
56)	1,2-DICHLOROPROPANE	4.782	63	142389	8.9451	PPBV	95
57)	DIBROMOMETHANE	4.740	174	162885	10.6135	PPBV	90
58)	ETHYL ACRYLATE	4.898	55	344150	9.6593	PPBV	99
59)	BROMODICHLOROMETHANE	4.959	83	285146	9.7994	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	714173	9.1594	PPBV	99
61)	1,4-DIOXANE	5.023	88	71502	8.3872	PPBV	88
62)	HEPTANE	5.415	43	216644	8.4150	PPBV	92
63)	METHYL METHACRYLATE	5.312	69	116300	8.0391	PPBV	97
64)	METHYL ISOBUTYL KETONE	6.039	58	136172	8.8202	PPBV	86
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	212264	8.6965	PPBV	98
66)	TOLUENE	7.126	91	434856	9.4837	PPBV	98
67)	1,3-DICHLOROPROPANE	7.187	76	208991	9.0913	PPBV	98
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	195424	8.8618	PPBV	97
69)	1,1,2-TRICHLOROETHANE	6.766	83	116969	8.9522	PPBV	92
70)	2-HEXANONE	7.692	58	182109	8.4536	PPBV	87
71)	ETHYL METHACRYLATE	7.827	69	200971	8.3280	PPBV	98
72)	TETRACHLOROETHENE	8.843	164	200969	12.0159	PPBV	100
73)	DIBROMOCHLOROMETHANE	7.656	129	335714	12.6433	PPBV	98
74)	1,2-DIBROMOETHANE	7.997	107	256880	10.8674	PPBV	100
75)	OCTANE	8.994	43	299636	8.6886	PPBV	94
77)	1,1,1,2-TETRACHLOROETHANE	10.052	131	233052	11.9935	PPBV	97
78)	CHLOROBENZENE	10.042	112	392804	10.6185	PPBV	94
79)	ETHYLBENZENE	10.920	91	603300	9.9526	PPBV	99
80)	M,P-XYLENE	11.347	91	969920	19.7519	PPBV	99
81)	O-XYLENE	12.273	91	494786	10.3815	PPBV	99
82)	STYRENE	12.064	104	365107	10.2184	PPBV	100
83)	NONANE	13.399	43	320915	8.6502	PPBV	89
84)	BROMOFORM	11.158	173	295504	12.9277	PPBV	98
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	314107	9.2006	PPBV	98
86)	1,2,3-TRICHLOROPROPANE	12.572	75	255232	9.5388	PPBV	100
88)	ISOPROPYLBENZENE	13.781	120	195452	10.7880	PPBV	91
89)	BROMOBENZENE	13.650	77	315392	9.0641	PPBV	82
90)	2-CHLOROTOLUENE	14.775	126	179590	10.6282	PPBV	100
91)	N-PROPYLBENZENE	15.119	120	206909	10.7602	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	730050	10.2589	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	626747	10.5824	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.170	118	314364	10.7027	PPBV	99
95)	TERT-BUTYLBENZENE	16.495	134	152956	10.5927	PPBV	87
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	658740	11.2195	PPBV	96
97)	BENZYL CHLORIDE	16.598	91	478022	10.0776	PPBV	99
98)	M-DICHLOROBENZENE	16.569	146	439667	10.8993	PPBV	100
99)	P-DICHLOROBENZENE	16.662	146	446018	11.2209	PPBV	99
100)	O-DICHLOROBENZENE	16.984	146	415961	11.1162	PPBV	99
101)	SEC-BUTYLBENZENE	16.810	134	187112	10.8821	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	633038	10.7552	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.006	134	206922	10.8273	PPBV	86
104)	N-BUTYLBENZENE	17.376	134	203488	11.1684	PPBV	95
105)	HEXACHLOROETHANE	17.553	117	251454	11.2024	PPBV	99
106)	HEXACHLOROBUTADIENE	18.617	225	338194	12.7083	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.305	180	419039	13.1291	PPBV	99
108)	NAPHTHALENE	18.354	128	1041304	14.5439	PPBV	99
110)	TVHC as equiv Pentane	2.238	TIC	675269	9.8277	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:54:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

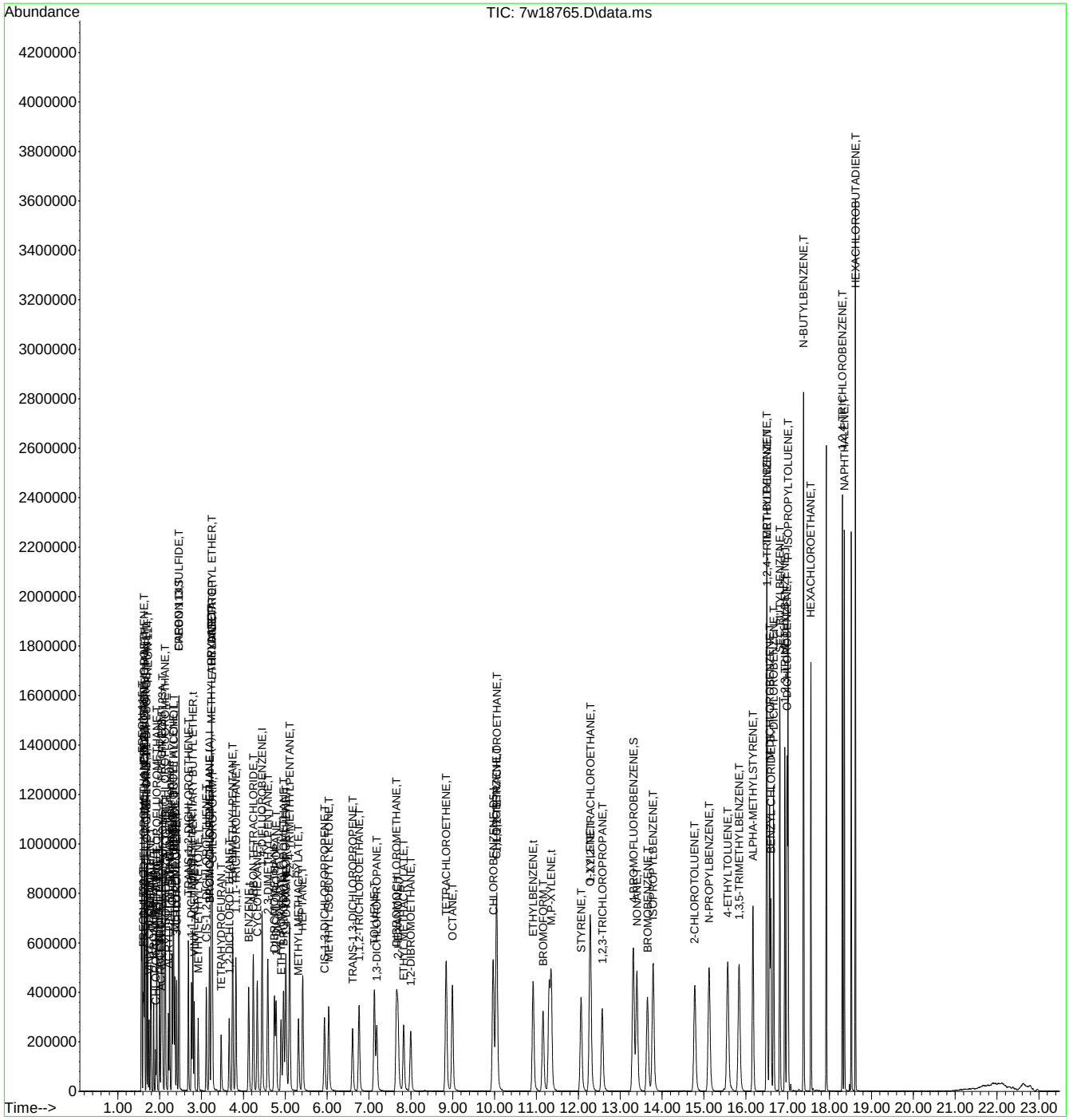
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:54:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

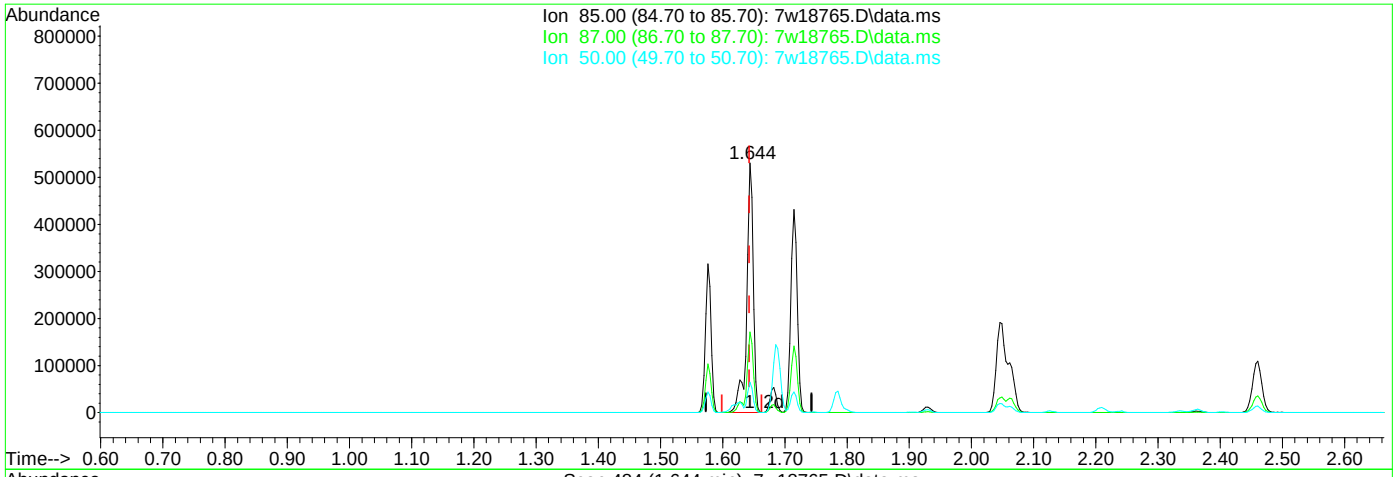
Sample Number: V7W655-CC577
Lab FileID: 7W18765.D
Injection Time: 11/24/25 09:52
Method: TO-15
Analyst approved: 11/25/25 12:59 Claire Basilio
Supervisor approved: 11/25/25 18:38 Kanya Veerawat

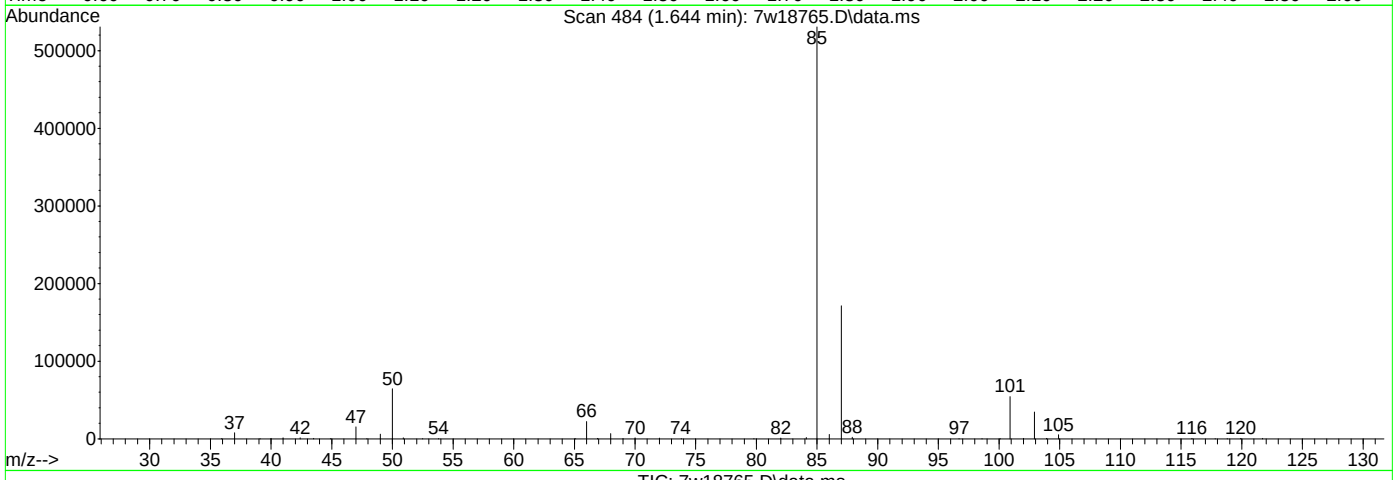
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:01:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18765.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 13.28PPBV

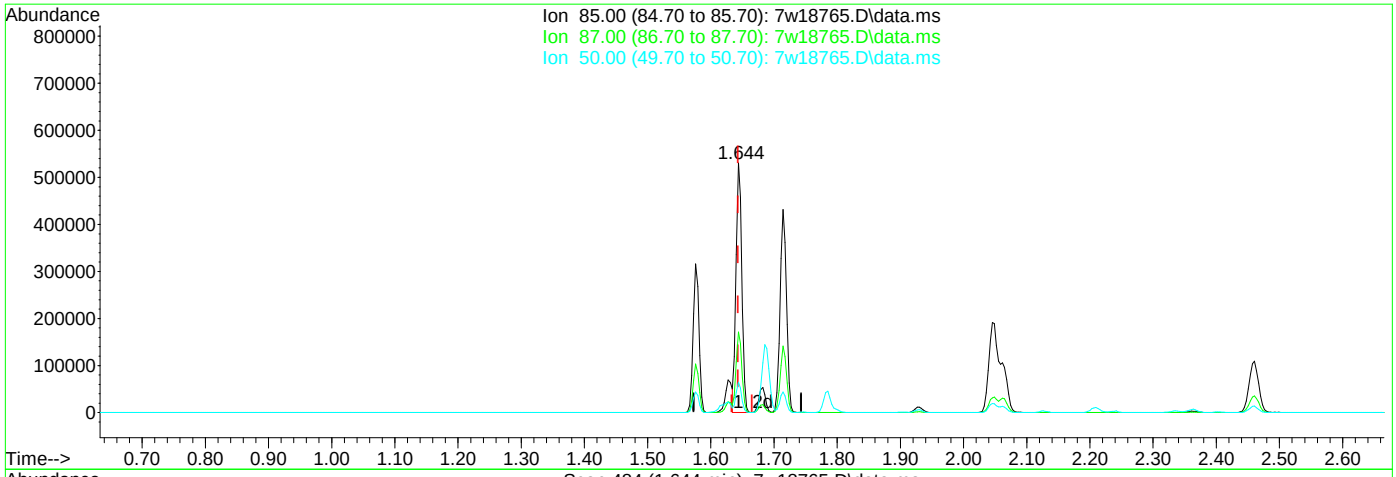
response 387246

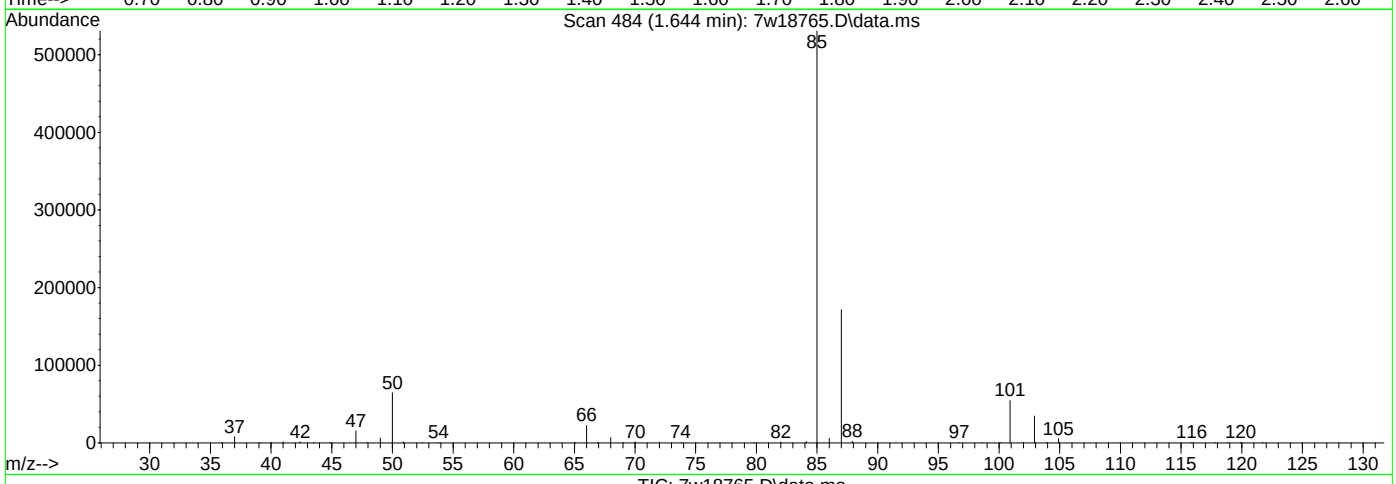
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.38
50.00	19.30	16.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:01:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18765.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 11.53PPBV m

response 336062

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.31
50.00	19.30	19.47
0.00	0.00	0.00

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1796	AS10783	12/5/2025	0.40
TO-15 STD	A2035	AS10781	12/4/2025	4.0
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS	A1810	AS10784	12/6/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2292
Date: 11/6/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251106ical.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Benjamin Kim
Data Validator(s):
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	000	5w59763			A2039	0					-	
1-1	000	5w59764			A2039	0					-	
1-1	000	5w59765			A2039	0					-	
1-1	istd only	5w59766			A2039	0					-	
1-1	ib	5w59767			A2039	400					-	
1-2	bfb	5w59768			A1796	5					OK	T = 21:59
1-2	ic2292-0.04	5w59769			A1796	40			√	√	OK	
1-2	ic2292-0.1	5w59770			A1796	100			√	√	OK	
1-2	ic2292-0.2	5w59771			A1796	200			√	√	OK	
1-2	ic2292-0.5	5w59772			A1796	500					NOT USED	Method Development
1-1	ib	5w59773			A2039	200					-	
1-1	ib	5w59774			A2039	400					-	
1-3	ic2292-0.1	5w59775			A2035	10					NOT USED	Method Development
1-3	ic2292-0.2	5w59776			A2035	20					NOT USED	Method Development
1-3	ic2292-0.5	5w59777			A2035	50			√	√	OK	
1-3	ic2292-5	5w59778			A2035	500					NOT USED	Method Development
1-1	ib	5w59779			A2039	200					-	
1-1	ib	5w59780			A2039	400					-	
1-4	ic2292-0.5	5w59781			A1788	5					NOT USED	Method Development
1-4	ic2292-5	5w59782			A1788	50			√	√	OK	
1-4	icc2292-10	5w59783			A1788	100			√	√	OK	
1-4	ic2292-20	5w59784			A1788	200			√	√	OK	
1-4	ic2292-40	5w59785			A1788	400			√	√	OK	
1-4	ic2292-50	5w59786			A1788	500			√	√	OK	
1-4	ic2292-60	5w59787			A1788	500			√	√	OK	
1-1	ib	5w59788			A2039	400					-	
1-1	ib	5w59789			A2039	400					-	
1-5	icv2292-10	5w59790			A1810	100			√	√	OK	
1-1	ib	5w59791			A2039	200					-	
1-1	ib	5w59792			A2039	400					-	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2301
Date: 11/24/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Claire Basilio
Data Validator(s): Geralyn Gomez
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	bfb	5w60000			A1788	100					OK	T = 10:05
SS-4	cc2292-10	5w60001			A1788	100			√	√	OK	
SS-4	bs	5w60002			A1788	100			√	√	OK	
SS-4	bsd	5w60003			A1788	100			√	√	OK	
1-1	ib	5w60004			A2039	400					-	
1-1	mb	5w60005			A2039	400		+	√	√	OK	
1-2	je23789-1	5w60006	MS99437	NYSVLL, NAP	A1625	40	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3	5w60007	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3dup	5w60008	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK	
1-4	je23790-1	5w60009	MS99437	NYSVLL, NAP	A259	400	1		√	√	OK	
1-5	je23790-3	5w60010	MS99437	NYSVLL, NAP	A1703	400	1		√	√	OK	
1-6	je23791-1	5w60011	MS99437	NYSVLL, NAP	A1167	400	1		√	√	OK/DL	↑ TCFM, RR = 4x
1-7	je23791-2	5w60012	MS99437	NYLL, NAP	A1657	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-8	je23791-3	5w60013	MS99437	NYSVLL, NAP	A655	400	1		√	√	OK	
1-9	je23791-4	5w60014	MS99437	NYLL, NAP	A215	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-10	je23793-1	5w60015	MS99437	NYSVLL, NAP	A1627	400	1		√	√	OK/DL	↑ Acetone, RR = 4x
1-11	je23793-2	5w60016	MS99437	NYLL, NAP	A1687	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-12	je23793-3	5w60017	MS99437	NYSVLL, NAP	A1764	400	1		√	√	OK	
1-13	je23793-4	5w60018	MS99437	NYLL, NAP	A1472	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-14	je23793-5	5w60019	MS99437	NYSVLL, NAP	M163	400	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-15	je23793-6	5w60020	MS99437	NYLL, NAP	A2086	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-16	je23794-1	5w60021	MS99437	NYLL, NAP	A1654	500	1		√	√	OK	
1-4	je23794-2	5w60022	MS99437	NYLL, NAP	A247	500	1		√	√	OK	
1-5	je23940-1	5w60023	MS99497	NYLL	A2164	500	1		√	√	OK	
1-8	je23940-2	5w60024	MS99497	NYLL	A2097	500	1		√	√	OK	
1-12	je23836-1	5w60025	MS99497	STD+, NAP	A1333	400	1	+	√	√	RR	No Can Attached.
1-1	je23836-2	5w60026	MS99497	STD+, NAP	M262	400	1	+	√	√	OK	
1-2	je23789-1	5w60027	MS99437	NYSVLL, NAP	A1625	400	1		√	√	OK	
1-3	je23789-3	5w60028	MS99437	NYSVLL, NAP	A1590	400	1		√	√	OK	
1-6	je23791-1	5w60029	MS99437	NYSVLL, NAP	A1167	100	1		√	√	OK	
1-7	je23791-2	5w60030	MS99437	NYLL, NAP	A1657	50	1		√	√	OK/DL	↑ Acetone, RR = 20x
1-9	je23791-4	5w60031	MS99437	NYLL, NAP	A215	50	1				NOT USED	Past BFB Tune
1-10	je23793-1	5w60032	MS99437	NYSVLL, NAP	A1627	100	1				NOT USED	
1-11	je23793-2	5w60033	MS99437	NYLL, NAP	A1687	50	1				NOT USED	
1-13	je23793-4	5w60034	MS99437	NYLL, NAP	A1472	50	1				NOT USED	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: **V5W2301**
Date: **11/24/2025**
Laboratory Analyst: **Benjamin Kim**
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): **Claire Basilio**
Data Validator(s): **Geralyn Gomez**
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-5	prime-40std	7w16562			A967	20						
2-4	prime-4std	7w16563			A1806	20						
2-3	prime-0.4std	7w16564			A2035	20						
2-2	prime-40lcs	7w16565			A1796	20						
2-1	0	7w16566			A2039	0						
2-1	0	7w16567			A2039	0						
2-1	0	7w16568			A2039	0						
2-1	istd only	7w16569			A2039	0						
2-1	istd only	7w16570			A2039	0						
2-1	istd only	7w16571			A2039	0						
2-1	ib	7w16572			A2039	400						
2-1	bfb	7w16573			A2039	400					OK	T = 2:05 (8/7/25)
2-1	ib	7w16574			A2039	400						
2-1	ib	7w16575			A1796	1						
2-2	ic577-0.04	7w16576			A1796	40			√	√	OK	
2-2	ic577-0.1	7w16577			A1796	100			√	√	OK	
2-2	ic577-0.2	7w16578			A1796	200					NOT USED	Method development
2-2	ic577-0.5	7w16579			A1796	500					NOT USED	Method development
2-1	ib	7w16580			A2039	400					NOT USED	Method development
2-3	ib	7w16581			A2035	1						
2-3	ic577-0.1	7w16582			A2035	10					NOT USED	Method development
2-3	ic577-0.2	7w16583			A2035	20			√	√	OK	
2-3	ic577-0.5	7w16584			A2035	50			√	√	OK	
2-3	ic577-5.0	7w16585			A2035	500					NOT USED	Method development
2-1	ib	7w16586			A2039	400						
2-4	ib	7w16587			A1806	1						
2-4	ic577-0.5	7w16588			A1806	5					NOT USED	Method development
2-4	ic577-5.0	7w16589			A1806	50			√	√	OK	
2-4	icc577-10	7w16590			A1806	100			√	√	OK	
2-4	ic577-20	7w16591			A1806	200			√	√	OK	
2-4	ic577-40	7w16592			A1806	400			√	√	OK	
2-4	ic577-50	7w16593			A1806	500			√	√	OK	
2-4	ic577-60	7w16594			A1806	600			√	√	OK	
2-1	ib	7w16595			A2039	400						
2-1	ib	7w16596			A2039	400						
2-5	icv577-10	7w16597			A967	100			√	√	OK	
2-1	ib	7w16598			A2039	100						
2-1	ib	7w16599			A2039	100						
SS4	ib	7w16600			A1798	100						
2-1	ib	7w16601			A2039	100						

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
	Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]											
Example:	Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.											
Notes:												

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	a1788	AS10741	10/8/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W613
Date: 9/26/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250926.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Kristel Valladolid
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w17472			A1827	20					OK	t=10:25
SS4	cc577-10	7w17473			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bs	7w17474			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bsd	7w17475			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
2-1	ib	7w17476			A1827	100					-	
2-1	mb	7w17477			A1827	400		+	√	√	OK	
2-2	je19194-2	7w17478	ms97046	CHLFRM	A328	620	1.55		√	√	OK	
2-3	je19194-3	7w17479	ms97046	CHLFRM	A188	680	1.7		√	√	OK	
2-4	je19193-1	7w17480	ms97046	CHLFRM	A452	608	1.52		√	√	OK	
2-5	je19193-2	7w17481	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-5	je19193-2dup	7w17482	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-11	scc,cp13198	7w17483			A053	400			√	√	OK	
2-12	scc,cp13198	7w17484			A1765	400			√	√	OK	
2-13	scc,cp13198	7w17485			A1644	400			√	√	OK	
2-14	scc,cp13199	7w17486			A1594	400			√	√	OK	
2-15	scc,cp13199	7w17487			A2121	400			√	√	OK	
2-16	scc,cp13199	7w17488			A737	400			√	√	OK	
A1	scc,cp13200	7w17489			A1412	100			√	√	OK	
A2	scc,cp13200	7w17490			A1428	100			√	√	OK	
A3	scc,cp13200	7w17491			A1439	100			√	√	OK	
A4	scc,cp13200	7w17492			A1881	100			√	√	OK	
A5	scc,cp13196	7w17493			A2380	100			√	√	OK	
A6	scc,cp13196	7w17494			A1574	100			√	√	OK	
A7	scc,cp13196	7w17495			A2211	100			√	√	OK	
A8	scc,cp13196	7w17496			A2321	100			√	√	OK	4:48

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A977	AS10746	10/22/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W624
Date: 10/13/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251013.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Michaella Balido
Data Validator(s): Braian Casallas
Data Validator(s): Natalia Liberato

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-4	bfb	7w17800			Open position	400			v	v	OK	t = 10:41
SS4	cc577-10	7w17801			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bs	7w17802			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bsd	7w17803			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
2-1	ib	7w17804			A1827	100					-	
2-1	mb	7w17805			A1827	400		+	v	v	OK	
C1	je20658-5	7w17806	MS97882	NYSVLL	A1762	10	1.35		v	v	RR	Combine with previous data from batch v7w623
2-2	je20702-1	7w17807	MS97930	STD	A902	400	1		v	v	OK	
2-2	je20702-1dup	7w17808	MS97930	STD	A902	400	1		v	v	OK	
2-3	je20654-1	7w17809	MS97882	NYLL	M311	760	1.52		v	v	OK	
2-4	je20654-2	7w17810	MS97882	NYLL	A1168	790	1.58		v	v	OK	
2-5	je20654-3	7w17811	MS97882	NYLL	A1708	500	1		v	v	OK	
2-6	je20654-5	7w17812	MS97882	NYLL	A743	500	1		v	v	OK	
2-7	je20654-6	7w17813	MS97882	NYLL	A2109	800	1.6		v	v	OK	
2-8	je20654-8	7w17814	MS97882	NYLL	M272	800	1.65		v	v	OK	
2-9	je20654-9	7w17815	MS97882	NYLL	A1081	800	1.6		v	v	OK	
2-10	je20654-13	7w17816	MS97882	NYLL	A1357	800	1.7		v	v	OK	
2-11	je20700-1	7w17817	MS98033	STD	M127	400	1		v	v	OK	
C2	je20654-4	7w17818	MS97882	NYSVLL	M237	632	1.58		v	v	OK	
C3	je20654-10	7w17819	MS97882	NYSVLL	A1323	400	1		v	v	OK	
C4	je20654-11	7w17820	MS97882	NYSVLL	M053	660	1.65		v	v	OK	
C5	je20654-12	7w17821	MS97882	NYSVLL	A1194	640	1.6		v	v	OK	
C6	je20654-7	7w17822	MS97882	NYSVLL	A1055	40	1		v	v	OK	
A1	je20697-1	7w17823	MS98033	SL	A1963	100	1		v	v	OK	
A2	je20697-2	7w17824	MS98033	SL	A1569	100	1		v	v	OK	
A3	je20646-1	7w17825	MS97882	SL	A2442	40	1		v	v	/DL	Acetone ↑; RR = 10cc
A4	je20646-2	7w17826	MS97882	SL	A1925	10	1		v	v	OK	t = 6:55 am
2-13	scc,cp13206	7w17827			A1088	400			v	v	OK	
2-14	scc,cp13206	7w17828			A457	400			v	v	OK	
2-15	scc,cp13206	7w17829			A638	400			v	v	OK	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1806	AS10770	11/27/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W655
Date: 11/24/2025
Laboratory Analyst: William Cruser
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251124.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Claire Basilio
Data Validator(s):
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w18764			open position	20			√	√	OK	t = 9:14
SS4	cc577-10	7w18765			a1806	100			√	√	OK	
SS4	bs	7w18766			A1806	100			√	√	OK	
SS4	bsd	7w18767			A1806	100			√	√	OK	
2-1	ib	7w18768			a2039	100					-	
2-1	mb	7w18769			a2039	400		+	√	√	OK	
2-2	scc,cp13240	7w18770			a1790	400					NG	PCE hit
2-3	scc,cp13240	7w18771			a1091	400					NG	PCE hit
2-4	scc,cp13240	7w18772			a2154	400			√	√	NG	PCE hit
2-5	scc,cp13241	7w18773			a1582	400			√	√	NG	PCE hit
2-6	scc,cp13241	7w18774			a081	400			√	√	NG	PCE hit
2-7	scc,cp13241	7w18775			a003	400			√	√	NG	PCE hit
a1	je23787-3	7w18776	MS99437	NYSVLL	a2219	100	1		√	√	OK	
a1	je23787-3dup	7w18777	MS99437	NYSVLL	a2219	100	1		√	√	OK	
2-8	je23493-2	7w18778	MS99316	STD	a1783	400	1		√	√	OK	
2-9	je23493-3	7w18779	MS99316	STD	m141	400	1		√	√	OK	
2-10	je23494-1	7w18780	MS99316	STD+, NAP	a1320	100	1	+	√	√	OK	
2-11	je23494-2	7w18781	MS99316	STD+, NAP	a1581	400	1	+	√	√	RR/DL	↑ PCE, RR = 10x
2-13	je23494-3	7w18782	MS99316	STD+, NAP	a086	400	1	+	√	√	OK	
2-14	je23789-2	7w18783	MS99437	NYLL, NAP	m097	500	1		√	√	RR/DL	↑ Acetone, RR = 5cc
2-15	je23789-4	7w18784	MS99437	NYLL, NAP	a2165	500	1		√	√	OK	
2-16	je23790-2	7w18785	MS99437	NYLL, NAP	a1705	500	1		√	√	OK	
2-1	je23790-4	7w18786	MS99437	NYLL, NAP	a748	500	1		√	√	OK	
a2	je23495-1	7w18787	MS99316	STD+	a1533	100	1	+	√	√	OK	
a3	je23495-2	7w18788	MS99316	STD+	a1957	100	1	+	√	√	OK	
a4	je23495-3	7w18789	MS99316	STD+	a1902	100	1	+	√	√	OK	
a5	je23785-1	7w18790	MS99437	STD	a2394	100	1		√	√	OK	
a6	je23785-2	7w18791	MS99437	STD	a1983	100	1		√	√	OK	
a7	je23785-3	7w18792	MS99437	STD	a2267	100	1		√	√	OK	
a8	je23785-4	7w18793	MS99437	STD	a1548	100	1		√	√	OK	
C2	je23744-1	7w18794	MS99437	NYLL3NG42A+20, F142B	A2160	500	1		√	√	OK	
2-11	je23494-2	7w18795	MS99316	STD+, NAP	a1581	40	1	+	√	√	OK	
2-14	je23789-2	7w18796	MS99437	NYLL, NAP	m097	5	1		√	√	OK	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

Regency Center Carmel ShopRite Plaza, Carmel, NY

1192343-02-210

SGS Job Number: JE23789

Sampling Date: 11/18/25



Report to:

Groundwater & Environmental Services
63 East Street Suite 3
Pawling, NY 12564
MDegloria@GESOnline.com; neregion@gesonline.com

ATTN: Michael DeGloria

Total number of pages in report: **1911**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Vinnie Dileo 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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SGS North America Inc.

Sample Summary

Groundwater & Environmental Services

Job No: JE23789

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JE23789-1	11/18/25	18:23	LM	11/20/25	AIR	Soil Vapor Comp.	SS-3
JE23789-2	11/18/25	18:25	LM	11/20/25	AIR	Indoor Air Comp.	IA-3
JE23789-3	11/18/25	18:30	LM	11/20/25	AIR	Soil Vapor Comp.	SS-4
JE23789-4	11/18/25	18:32	LM	11/20/25	AIR	Indoor Air Comp.	IA-4

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Groundwater & Environmental Services	**Job No:**	JE23789
Site:	Regency Center Carmel ShopRite Plaza, Carmel, NY	**Report Date**	12/5/2025 4:35:39 AM

On 11/20/2025, 4 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) An SGS Job Number of JE23789 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V5W2301

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23789-3DUP were used as the QC samples indicated.
- The duplicate RPD(s) for Vinyl Acetate, Benzene, Chloroform, Chloromethane, Cyclohexane, Ethylbenzene, Hexane, m,p-Xylene, m-Dichlorobenzene, Methylene chloride, o-Xylene, Tetrahydrofuran, Xylenes (total) are outside control limits for sample JE23789-3DUP. RPD acceptable due to low DUP and sample concentrations.
- JE23789-3DUP for Vinyl Acetate: Outside in house control limits.

Matrix: AIR **Batch ID:** V7W655

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE23787-3DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** V7W656

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE24006-1DUP were used as the QC samples indicated.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE23789
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE23789-1	**SS-3**					
Acetone (2-Propanone)		343	2.0		ppbv	TO-15
Benzene		0.28	0.20		ppbv	TO-15
Cyclohexane		0.31	0.20		ppbv	TO-15
Dichlorodifluoromethane		0.59	0.20		ppbv	TO-15
m-Dichlorobenzene		0.42	0.10		ppbv	TO-15
Ethanol		277	5.0		ppbv	TO-15
Ethyl Acetate		133	2.0		ppbv	TO-15
Heptane		11.0	0.20		ppbv	TO-15
Hexane		0.46	0.20		ppbv	TO-15
Isopropyl Alcohol		16.2	0.20		ppbv	TO-15
Methylene chloride		0.34	0.20		ppbv	TO-15
Methyl ethyl ketone		2.3	0.20		ppbv	TO-15
Methylmethacrylate		8.8	0.20		ppbv	TO-15
Tertiary Butyl Alcohol		3.9	0.20		ppbv	TO-15
Tetrachloroethylene		2.6	0.040		ppbv	TO-15
Toluene		1.3	0.20		ppbv	TO-15
Trichlorofluoromethane		54.4	0.10		ppbv	TO-15
Vinyl Acetate		1.0	0.20		ppbv	TO-15
m,p-Xylene		0.53	0.20		ppbv	TO-15
o-Xylene		0.22	0.20		ppbv	TO-15
Xylenes (total)		0.75	0.20		ppbv	TO-15
Acetone (2-Propanone)		815	4.8		ug/m3	TO-15
Benzene		0.89	0.64		ug/m3	TO-15
Cyclohexane		1.1	0.69		ug/m3	TO-15
Dichlorodifluoromethane		2.9	0.99		ug/m3	TO-15
m-Dichlorobenzene		2.5	0.60		ug/m3	TO-15
Ethanol		522	9.4		ug/m3	TO-15
Ethyl Acetate		479	7.2		ug/m3	TO-15
Heptane		45.1	0.82		ug/m3	TO-15
Hexane		1.6	0.70		ug/m3	TO-15
Isopropyl Alcohol		39.8	0.49		ug/m3	TO-15
Methylene chloride		1.2	0.69		ug/m3	TO-15
Methyl ethyl ketone		6.8	0.59		ug/m3	TO-15
Methylmethacrylate		36	0.82		ug/m3	TO-15
Tertiary Butyl Alcohol		12	0.61		ug/m3	TO-15
Tetrachloroethylene		18	0.27		ug/m3	TO-15
Toluene		4.9	0.75		ug/m3	TO-15
Trichlorofluoromethane		306	0.56		ug/m3	TO-15
Vinyl Acetate		3.5	0.70		ug/m3	TO-15
m,p-Xylene		2.3	0.87		ug/m3	TO-15
o-Xylene		0.96	0.87		ug/m3	TO-15
Xylenes (total)		3.3	0.87		ug/m3	TO-15

Summary of Hits

Job Number: JE23789
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE23789-2	**IA-3**					
Acetone (2-Propanone)		3840	64		ppbv	TO-15
Benzene		0.22	0.16		ppbv	TO-15
Chloroform		0.33	0.16		ppbv	TO-15
Chloromethane		0.48	0.16		ppbv	TO-15
Cyclohexane		0.51	0.16		ppbv	TO-15
Dichlorodifluoromethane		0.45	0.16		ppbv	TO-15
Ethanol		283	40		ppbv	TO-15
Ethyl Acetate		106	16		ppbv	TO-15
Heptane		18.7	0.16		ppbv	TO-15
Hexane		0.23	0.16		ppbv	TO-15
Isopropyl Alcohol		199	16		ppbv	TO-15
Methylene chloride		0.40	0.16		ppbv	TO-15
Methyl ethyl ketone		0.30	0.16		ppbv	TO-15
Methylmethacrylate		17.2	0.16		ppbv	TO-15
Propylene		0.90	0.40		ppbv	TO-15
Tertiary Butyl Alcohol		0.28	0.16		ppbv	TO-15
Tetrahydrofuran		0.36	0.16		ppbv	TO-15
Toluene		1.0	0.16		ppbv	TO-15
Trichlorofluoromethane		0.48	0.080		ppbv	TO-15
Vinyl Acetate		0.18	0.16		ppbv	TO-15
m,p-Xylene		0.16	0.16		ppbv	TO-15
Xylenes (total)		0.25	0.16		ppbv	TO-15
Acetone (2-Propanone)		9120	150		ug/m3	TO-15
Benzene		0.70	0.51		ug/m3	TO-15
Chloroform		1.6	0.78		ug/m3	TO-15
Chloromethane		0.99	0.33		ug/m3	TO-15
Cyclohexane		1.8	0.55		ug/m3	TO-15
Dichlorodifluoromethane		2.2	0.79		ug/m3	TO-15
Ethanol		533	75		ug/m3	TO-15
Ethyl Acetate		382	58		ug/m3	TO-15
Heptane		76.6	0.66		ug/m3	TO-15
Hexane		0.81	0.56		ug/m3	TO-15
Isopropyl Alcohol		489	39		ug/m3	TO-15
Methylene chloride		1.4	0.56		ug/m3	TO-15
Methyl ethyl ketone		0.88	0.47		ug/m3	TO-15
Methylmethacrylate		70.4	0.66		ug/m3	TO-15
Propylene		1.5	0.69		ug/m3	TO-15
Tertiary Butyl Alcohol		0.85	0.49		ug/m3	TO-15
Tetrahydrofuran		1.1	0.47		ug/m3	TO-15
Toluene		3.8	0.60		ug/m3	TO-15
Trichlorofluoromethane		2.7	0.45		ug/m3	TO-15
Vinyl Acetate		0.63	0.56		ug/m3	TO-15
m,p-Xylene		0.69	0.69		ug/m3	TO-15

Summary of Hits

Job Number: JE23789
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylenes (total)		1.1	0.69		ug/m3	TO-15
JE23789-3	**SS-4**					
Acetone (2-Propanone)		155	0.80		ppbv	TO-15
Benzene		0.28	0.20		ppbv	TO-15
Chloroform		0.24	0.20		ppbv	TO-15
Dichlorodifluoromethane		0.50	0.20		ppbv	TO-15
m-Dichlorobenzene		0.23	0.10		ppbv	TO-15
Ethanol		205	2.0		ppbv	TO-15
Ethyl Acetate		17.7	0.20		ppbv	TO-15
Heptane		5.6	0.20		ppbv	TO-15
Hexane		0.34	0.20		ppbv	TO-15
Isopropyl Alcohol		11.9	0.20		ppbv	TO-15
Methylene chloride		0.27	0.20		ppbv	TO-15
Methyl ethyl ketone		2.0	0.20		ppbv	TO-15
Methylmethacrylate		4.9	0.20		ppbv	TO-15
Tertiary Butyl Alcohol		3.1	0.20		ppbv	TO-15
Tetrachloroethylene		0.76	0.040		ppbv	TO-15
Toluene		1.1	0.20		ppbv	TO-15
Trichlorofluoromethane		1.0	0.10		ppbv	TO-15
Vinyl Acetate		1.1	0.20		ppbv	TO-15
m,p-Xylene		0.44	0.20		ppbv	TO-15
Xylenes (total)		0.61	0.20		ppbv	TO-15
Acetone (2-Propanone)		368	1.9		ug/m3	TO-15
Benzene		0.89	0.64		ug/m3	TO-15
Chloroform		1.2	0.98		ug/m3	TO-15
Dichlorodifluoromethane		2.5	0.99		ug/m3	TO-15
m-Dichlorobenzene		1.4	0.60		ug/m3	TO-15
Ethanol		386	3.8		ug/m3	TO-15
Ethyl Acetate		63.7	0.72		ug/m3	TO-15
Heptane		23	0.82		ug/m3	TO-15
Hexane		1.2	0.70		ug/m3	TO-15
Isopropyl Alcohol		29.3	0.49		ug/m3	TO-15
Methylene chloride		0.94	0.69		ug/m3	TO-15
Methyl ethyl ketone		5.9	0.59		ug/m3	TO-15
Methylmethacrylate		20	0.82		ug/m3	TO-15
Tertiary Butyl Alcohol		9.4	0.61		ug/m3	TO-15
Tetrachloroethylene		5.2	0.27		ug/m3	TO-15
Toluene		4.1	0.75		ug/m3	TO-15
Trichlorofluoromethane		5.6	0.56		ug/m3	TO-15
Vinyl Acetate		3.9	0.70		ug/m3	TO-15
m,p-Xylene		1.9	0.87		ug/m3	TO-15
Xylenes (total)		2.6	0.87		ug/m3	TO-15

Summary of Hits

Job Number: JE23789
Account: Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Collected: 11/18/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE23789-4	**IA-4**					
Acetone (2-Propanone)		2750	31		ppbv	TO-15
Benzene		0.24	0.16		ppbv	TO-15
Chloroform		0.61	0.16		ppbv	TO-15
Chloromethane		0.49	0.16		ppbv	TO-15
Cyclohexane		0.30	0.16		ppbv	TO-15
Dichlorodifluoromethane		0.48	0.16		ppbv	TO-15
Ethanol		179	78		ppbv	TO-15
Ethyl Acetate		42.5	31		ppbv	TO-15
Heptane		9.7	0.16		ppbv	TO-15
Hexane		0.24	0.16		ppbv	TO-15
Isopropyl Alcohol		69.5	31		ppbv	TO-15
Methylene chloride		0.28	0.16		ppbv	TO-15
Methyl ethyl ketone		0.32	0.16		ppbv	TO-15
Methylmethacrylate		12.5	0.16		ppbv	TO-15
Propylene		0.83	0.40		ppbv	TO-15
Tertiary Butyl Alcohol		0.23	0.16		ppbv	TO-15
Tetrahydrofuran		0.25	0.16		ppbv	TO-15
Toluene		0.76	0.16		ppbv	TO-15
Trichlorofluoromethane		0.45	0.080		ppbv	TO-15
Vinyl Acetate		0.16	0.16		ppbv	TO-15
Acetone (2-Propanone)		6530	74		ug/m3	TO-15
Benzene		0.77	0.51		ug/m3	TO-15
Chloroform		3.0	0.78		ug/m3	TO-15
Chloromethane		1.0	0.33		ug/m3	TO-15
Cyclohexane		1.0	0.55		ug/m3	TO-15
Dichlorodifluoromethane		2.4	0.79		ug/m3	TO-15
Ethanol		337	150		ug/m3	TO-15
Ethyl Acetate		153	110		ug/m3	TO-15
Heptane		40	0.66		ug/m3	TO-15
Hexane		0.85	0.56		ug/m3	TO-15
Isopropyl Alcohol		171	76		ug/m3	TO-15
Methylene chloride		0.97	0.56		ug/m3	TO-15
Methyl ethyl ketone		0.94	0.47		ug/m3	TO-15
Methylmethacrylate		51.2	0.66		ug/m3	TO-15
Propylene		1.4	0.69		ug/m3	TO-15
Tertiary Butyl Alcohol		0.70	0.49		ug/m3	TO-15
Tetrahydrofuran		0.74	0.47		ug/m3	TO-15
Toluene		2.9	0.60		ug/m3	TO-15
Trichlorofluoromethane		2.5	0.45		ug/m3	TO-15
Vinyl Acetate		0.56	0.56		ug/m3	TO-15

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SS-3		
Lab Sample ID:	JE23789-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1625	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60027.D	1	11/25/25 06:37	BK	n/a	n/a	V5W2301
Run #2	5W60006.D	1	11/24/25 15:18	BK	n/a	n/a	V5W2301

	Initial Volume
Run #1	400 ml
Run #2	40.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	343 [a]	2.0	ppbv		815 [a]	4.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.28	0.20	ppbv		0.89	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	0.31	0.20	ppbv		1.1	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.59	0.20	ppbv		2.9	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.42	0.10	ppbv		2.5	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-3		
Lab Sample ID:	JE23789-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1625	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	277 [a]	5.0	ppbv		522 [a]	9.4	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	133 [a]	2.0	ppbv		479 [a]	7.2	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	11.0	0.20	ppbv		45.1	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.46	0.20	ppbv		1.6	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	16.2	0.20	ppbv		39.8	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.34	0.20	ppbv		1.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.3	0.20	ppbv		6.8	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	8.8	0.20	ppbv		36	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.9	0.20	ppbv		12	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	2.6	0.040	ppbv		18	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.3	0.20	ppbv		4.9	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	54.4	0.10	ppbv		306	0.56	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	1.0	0.20	ppbv		3.5	0.70	ug/m3
	106.2	m,p-Xylene	0.53	0.20	ppbv		2.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.22	0.20	ppbv		0.96	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.75	0.20	ppbv		3.3	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-3		
Lab Sample ID:	JE23789-1	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1625	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%	106%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	IA-3		
Lab Sample ID:	JE23789-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: M097,M327	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W18783.D	1	11/24/25 23:51	WC	n/a	n/a	V7W655
Run #2	7W18796.D	1	11/25/25 08:52	WC	n/a	n/a	V7W655
Run #3	7W18805.D	160	11/25/25 16:04	WC	n/a	n/a	V7W656

	Initial Volume
Run #1	500 ml
Run #2	5.0 ml
Run #3	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	3840 [a]	64	ppbv		9120 [a]	150	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	0.22	0.16	ppbv		0.70	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	0.33	0.16	ppbv		1.6	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.48	0.16	ppbv		0.99	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.032	ppbv		ND	0.20	ug/m3
110-82-7	84.16	Cyclohexane	0.51	0.16	ppbv		1.8	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.16	ppbv		2.2	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-3		
Lab Sample ID:	JE23789-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: M097,M327	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
64-17-5	46.07	Ethanol	283 [b]	40	ppbv		533 [b]	75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	106 [b]	16	ppbv		382 [b]	58	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	18.7	0.16	ppbv		76.6	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.23	0.16	ppbv		0.81	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	199 [b]	16	ppbv		489 [b]	39	ug/m3
75-09-2	84.94	Methylene chloride	0.40	0.16	ppbv		1.4	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.30	0.16	ppbv		0.88	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	17.2	0.16	ppbv		70.4	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	0.90	0.40	ppbv		1.5	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.28	0.16	ppbv		0.85	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.032	ppbv		ND	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.36	0.16	ppbv		1.1	0.47	ug/m3
108-88-3	92.14	Toluene	1.0	0.16	ppbv		3.8	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.48	0.080	ppbv		2.7	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	0.18	0.16	ppbv		0.63	0.56	ug/m3
	106.2	m,p-Xylene	0.16	0.16	ppbv		0.69	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	0.25	0.16	ppbv		1.1	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-3		
Lab Sample ID:	JE23789-2	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: M097,M327	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	93%	92%	95%	65-128%

(a) Result is from Run# 3
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: SS-4
Lab Sample ID: JE23789-3
Matrix: AIR - Soil Vapor Comp. Summa ID: A1590
Method: TO-15
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Date Sampled: 11/18/25
Date Received: 11/20/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W60028.D	1	11/25/25 07:20	BK	n/a	n/a	V5W2301
Run #2	5W60007.D	1	11/24/25 15:56	BK	n/a	n/a	V5W2301

	Initial Volume
Run #1	400 ml
Run #2	100 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	155 [a]	0.80	ppbv		368 [a]	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.28	0.20	ppbv		0.89	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	ppbv		ND	0.67	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.24	0.20	ppbv		1.2	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	ppbv		ND	0.77	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.20	ppbv		2.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	ppbv		ND	0.85	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	ppbv		ND	0.16	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.23	0.10	ppbv		1.4	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-4		
Lab Sample ID:	JE23789-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1590	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	205 [a]	2.0	ppbv		386 [a]	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	17.7	0.20	ppbv		63.7	0.72	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	ppbv		ND	0.77	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	ppbv		ND	0.70	ug/m3
142-82-5	100.2	Heptane	5.6	0.20	ppbv		23	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	ppbv		ND	0.96	ug/m3
110-54-3	86.18	Hexane	0.34	0.20	ppbv		1.2	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	11.9	0.20	ppbv		29.3	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.27	0.20	ppbv		0.94	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.0	0.20	ppbv		5.9	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	4.9	0.20	ppbv		20	0.82	ug/m3
91-20-3	128.17	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	ppbv		ND	0.69	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	ppbv		ND	0.55	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	ppbv		ND	0.74	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.1	0.20	ppbv		9.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.76	0.040	ppbv		5.2	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.1	0.20	ppbv		4.1	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.0	0.10	ppbv		5.6	0.56	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	ppbv		ND	0.10	ug/m3
108-05-4	86	Vinyl Acetate	1.1	0.20	ppbv		3.9	0.70	ug/m3
	106.2	m,p-Xylene	0.44	0.20	ppbv		1.9	0.87	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.61	0.20	ppbv		2.6	0.87	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-4		
Lab Sample ID:	JE23789-3	**Date Sampled:**	11/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1590	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	108%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: IA-4
Lab Sample ID: JE23789-4
Matrix: AIR - Indoor Air Comp. Summa ID: A2165,M332
Method: TO-15
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Date Sampled: 11/18/25
Date Received: 11/20/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W18784.D	1	11/25/25 00:38	WC	n/a	n/a	V7W655
Run #2	7W18806.D	155	11/25/25 16:48	WC	n/a	n/a	V7W656

	Initial Volume
Run #1	500 ml
Run #2	400 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone (2-Propanone)	2750 [a]	31	ppbv		6530 [a]	74	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.16	ppbv		ND	0.35	ug/m3
71-43-2	78.11	Benzene	0.24	0.16	ppbv		0.77	0.51	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.080	ppbv		ND	0.54	ug/m3
75-25-2	252.8	Bromoform	ND	0.032	ppbv		ND	0.33	ug/m3
74-83-9	94.94	Bromomethane	ND	0.16	ppbv		ND	0.62	ug/m3
593-60-2	106.9	Bromoethene	ND	0.16	ppbv		ND	0.70	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.16	ppbv		ND	0.82	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.16	ppbv		ND	0.50	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.16	ppbv		ND	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.16	ppbv		ND	0.42	ug/m3
67-66-3	119.4	Chloroform	0.61	0.16	ppbv		3.0	0.78	ug/m3
74-87-3	50.49	Chloromethane	0.49	0.16	ppbv		1.0	0.33	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.16	ppbv		ND	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.16	ppbv		ND	0.83	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.032	ppbv		ND	0.20	ug/m3
110-82-7	84.16	Cyclohexane	0.30	0.16	ppbv		1.0	0.55	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.080	ppbv		ND	0.61	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.16	ppbv		ND	0.65	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.16	ppbv		ND	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.16	ppbv		ND	0.58	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.16	ppbv		2.4	0.79	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.080	ppbv		ND	0.68	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.16	ppbv		ND	0.63	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.032	ppbv		ND	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.032	ppbv		ND	0.19	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.080	ppbv		ND	0.48	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.16	ppbv		ND	0.73	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-4		
Lab Sample ID:	JE23789-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2165,M332	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	179 [a]	78	ppbv		337 [a]	150	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.16	ppbv		ND	0.69	ug/m3
141-78-6	88	Ethyl Acetate	42.5 [a]	31	ppbv		153 [a]	110	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.16	ppbv		ND	0.79	ug/m3
76-13-1	187.4	Freon 113	ND	0.080	ppbv		ND	0.61	ug/m3
76-14-2	170.9	Freon 114	ND	0.080	ppbv		ND	0.56	ug/m3
142-82-5	100.2	Heptane	9.7	0.16	ppbv		40	0.66	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.072	ppbv		ND	0.77	ug/m3
110-54-3	86.18	Hexane	0.24	0.16	ppbv		0.85	0.56	ug/m3
591-78-6	100	2-Hexanone	ND	0.16	ppbv		ND	0.65	ug/m3
67-63-0	60.1	Isopropyl Alcohol	69.5 [a]	31	ppbv		171 [a]	76	ug/m3
75-09-2	84.94	Methylene chloride	0.28	0.16	ppbv		0.97	0.56	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.32	0.16	ppbv		0.94	0.47	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.16	ppbv		ND	0.66	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.16	ppbv		ND	0.58	ug/m3
80-62-6	100.12	Methylmethacrylate	12.5	0.16	ppbv		51.2	0.66	ug/m3
91-20-3	128.17	Naphthalene	ND	0.16	ppbv		ND	0.84	ug/m3
115-07-1	42	Propylene	0.83	0.40	ppbv		1.4	0.69	ug/m3
100-42-5	104.1	Styrene	ND	0.16	ppbv		ND	0.68	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.080	ppbv		ND	0.55	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.080	ppbv		ND	0.44	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.080	ppbv		ND	0.59	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.16	ppbv		ND	0.79	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.16	ppbv		ND	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.23	0.16	ppbv		0.70	0.49	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.032	ppbv		ND	0.22	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.25	0.16	ppbv		0.74	0.47	ug/m3
108-88-3	92.14	Toluene	0.76	0.16	ppbv		2.9	0.60	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.032	ppbv		ND	0.17	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.45	0.080	ppbv		2.5	0.45	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.032	ppbv		ND	0.082	ug/m3
108-05-4	86	Vinyl Acetate	0.16	0.16	ppbv		0.56	0.56	ug/m3
	106.2	m,p-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
95-47-6	106.2	o-Xylene	ND	0.16	ppbv		ND	0.69	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.16	ppbv		ND	0.69	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-4		
Lab Sample ID:	JE23789-4	**Date Sampled:**	11/18/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2165,M332	**Date Received:**	11/20/25
Method:	TO-15	**Percent Solids:**	n/a
Project:	Regency Center Carmel ShopRite Plaza, Carmel, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	92%	65-128%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle

SGS Air

CHAIN OF CUSTODY - AIR

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #	Bottle Order Control # EN 11525 210
SGS Quote #	SGS Job # JE23789

Client / Reporting Information			Project Information		Weather Parameters		Requested Analysis	
Company Name: Groundwater & Environmental Services			Project Name: Regency Centers Carmel ShopRite Plaza, Carmel, NY		Temperature (Fahrenheit) Start: 40 Maximum: 40		VTO15NYSVLL and VMS+NAP	VTO15NYLL and VMS+NAP
Address: 63 East Street, Suite 3			Street: 180 Gleneida Ave.		Stop: 39 Minimum: 39			
City: Pawling	State: NY	Zip: 12564	City: Carmel	State: NY	Atmoshpheric Pressure (inches of Hg) Start: 30.1 Maximum: 30.1			
Project Contact: Jessica Montaldo	E-mail: Jmontaldo@gesonline.com		Project #: 1192343-02-210		Stop: 30.1 Minimum: 30.1			
Phone #: 800-360-9405, ext 4328			Client Purchase Order # Invoice to GES, please reference project #		Other weather comment:			
Sampler(s) Name(s): Liam Maher								

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	VTO15NYSVLL and VMS+NAP	VTO15NYLL and VMS+NAP
1	SS-3	SV	NR	A1625	6L	FC1370	11/18/25	1055	30	70	LW	11/18/25	1823	4	74	LW	X	
2	IA-3	I	NR	M097	6L	FC1306	11/18/25	1056	29	70	LW	11/18/25	1825	5	74	LW		X
3	SS-4	SV	NR	A1590	6L	FC1368	11/18/25	1100	30	70	LW	11/18/25	1830	2	74	LW	X	
4	IA-4	I	NR	A2165	6L	FCA435	11/18/25	1102	29	70	LW	11/18/25	1832	5	74	LW		X

Turnaround Time (Business days)

- 15 Business Days
- 10 Business Days
- 5 Business Days
- 3 Business Days *
- 2 Business Days *
- 1 Business Day *
- Other

Approved By: _____

Date: _____

* Approval needed for 1-3 Business Day TAT

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

- Comm A
- Comm B
- Reduced T2
- Full T1
- Other: NYCATB
- DKQP reporting

Comments / Remarks

Tenant Space: Chic Nails & Spa

VTO15NYSVLL - soil vapor; VTO15NYLL - indoor/ambient
*NYCATB Report

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory: 1	Date / Time: 11-19-25		Received By: 1 FED-EX	Relinquished By: 2	Date / Time: 11/20/25 1000	Received By: 2
Relinquished by: 3	Date / Time:		Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:		Received By: 5	Custody Seal #		

2A XL

http://www.sgs.com/en/terms-and-conditions

JE23789: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE23789 **Client:** _____ **Project:** _____

Date / Time Received: 11/20/2025 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JE23789: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Received: 11/20/25

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1625	6	30	11/11/25	JT	CP13198	7W17485.D	JE23789-1	11/21/25	TCH	6			1
M097	6	30	11/11/25	JT	CP13206	7W17829.D	JE23789-2	11/21/25	TCH	6			1
A1590	6	30	11/11/25	JT	CP13198	7W17485.D	JE23789-3	11/21/25	TCH	1.5			1
A2165	6	30	11/11/25	JT	CP13198	7W17485.D	JE23789-4	11/21/25	TCH	6			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1306	11/11/25	JT	10.5	8	11/25/25	JT	11.1	5.6	Flow Controller
FC1368	11/11/25	JT	10.5	8	11/25/25	JT	9.5	10	Flow Controller
FC1370	11/11/25	JT	10.5	8	11/26/25	JT	10.2	2.9	Flow Controller
FC1435	11/11/25	JT	10.3	8	11/26/25	JT	10.7	3.8	Flow Controller

SGS Bottle Order(s):
EN-11525-210

Prep Date	Room Temp(F)	Bar Pres "Hg
11/11/25	70	29.92

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: JE23789

Regency Center Carmel ShopRite Plaza, Carmel, NY
Project No: 1192343-02-210

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE23789-1 SS-3	Collected: 18-NOV-25 18:23 By: LM		Received: 20-NOV-25 By: JR			
JE23789-1	TO-15	24-NOV-25 15:18	BK			VTO15NYSVLL
JE23789-1	TO-15	25-NOV-25 06:37	BK			VTO15NYSVLL
JE23789-2 IA-3	Collected: 18-NOV-25 18:25 By: LM		Received: 20-NOV-25 By: JR			
JE23789-2	TO-15	24-NOV-25 23:51	WC			VTO15NYLL
JE23789-2	TO-15	25-NOV-25 08:52	WC			VTO15NYLL
JE23789-2	TO-15	25-NOV-25 16:04	WC			VTO15NYLL
JE23789-3 SS-4	Collected: 18-NOV-25 18:30 By: LM		Received: 20-NOV-25 By: JR			
JE23789-3	TO-15	24-NOV-25 15:56	BK			VTO15NYSVLL
JE23789-3	TO-15	25-NOV-25 07:20	BK			VTO15NYSVLL
JE23789-4 IA-4	Collected: 18-NOV-25 18:32 By: LM		Received: 20-NOV-25 By: JR			
JE23789-4	TO-15	25-NOV-25 00:38	WC			VTO15NYLL
JE23789-4	TO-15	25-NOV-25 16:48	WC			VTO15NYLL

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-MB	7W18769.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-MB	7W18769.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-MB	7W18769.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	86%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-MB	5W60005.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W656-MB	7W18802.D	1	11/25/25	WC	n/a	n/a	V7W656

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	87%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-MB	7W17477.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-MB	7W17805.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W647-MB	7W18508.D	1	11/12/25	TCH	n/a	n/a	V7W647

The QC reported here applies to the following samples: **Method:** TO-15

V7W647-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	86%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-BS	7W18766.D	1	11/24/25	WC	n/a	n/a	V7W655
V7W655-BSD	7W18767.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
106-99-0	1,3-Butadiene	10.3	9.9	96	10.1	98	2	70-130/30
71-43-2	Benzene	10.4	7.5	72	7.9	76	5	70-130/30
75-27-4	Bromodichloromethane	9.9	9.6	97	10.0	101	4	70-130/30
75-25-2	Bromoform	10.6	12.8	121	13.1	124	2	70-130/30
74-83-9	Bromomethane	10.2	10	98	10.0	98	0	70-130/30
593-60-2	Bromoethene	10.1	10.4	103	10.4	103	0	70-130/30
100-44-7	Benzyl Chloride	10.5	9.9	94	10.2	97	3	70-130/30
75-15-0	Carbon disulfide	10.6	9.0	85	8.9	84	1	70-130/30
108-90-7	Chlorobenzene	10.9	10.6	97	10.9	100	3	70-130/30
75-00-3	Chloroethane	10	9.3	93	9.2	92	1	70-130/30
67-66-3	Chloroform	10.5	9.7	92	9.8	93	1	70-130/30
74-87-3	Chloromethane	10.6	10.0	94	9.8	92	2	70-130/30
107-05-1	3-Chloropropene	10.2	8.3	81	8.5	83	2	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.6	102	11.0	106	4	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.2	110	11.6	114	4	70-130/30
110-82-7	Cyclohexane	10.4	8.3	80	8.6	83	4	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.9	97	9.9	97	0	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.4	97	10.4	97	0	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	10.8	98	10.7	97	1	70-130/30
107-06-2	1,2-Dichloroethane	10.2	9.6	94	10.3	101	7	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.0	87	9.6	93	6	70-130/30
123-91-1	1,4-Dioxane	9.9	8.4	85	8.7	88	4	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.3	107	11.2	106	1	70-130/30
124-48-1	Dibromochloromethane	10.4	12.5	120	12.2	117	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	9.3	91	9.3	91	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	9.0	87	9.1	88	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	8.6	85	9.0	89	5	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.8	103	11.0	105	2	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.0	103	11.3	106	3	70-130/30
106-46-7	p-Dichlorobenzene	10.8	11.1	103	11.2	104	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	8.8	92	9.1	95	3	70-130/30
64-17-5	Ethanol	9.7	8.6	89	8.4	87	2	70-130/30
100-41-4	Ethylbenzene	11	10	91	10.3	94	3	70-130/30
141-78-6	Ethyl Acetate	10.5	9.6	91	9.7	92	1	70-130/30
622-96-8	4-Ethyltoluene	10.6	10.3	97	10.6	100	3	70-130/30
76-13-1	Freon 113	10.6	11.7	110	11.7	110	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-BS	7W18766.D	1	11/24/25	WC	n/a	n/a	V7W655
V7W655-BSD	7W18767.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-14-2	Freon 114	10.4	10.3	99	10.2	98	1	70-130/30
142-82-5	Heptane	10.4	8.0	77	9.0	87	12	70-130/30
87-68-3	Hexachlorobutadiene	11.7	12.1	103	12.7	109	5	70-130/30
110-54-3	Hexane	10.5	9.5	90	9.9	94	4	70-130/30
591-78-6	2-Hexanone	10.4	8.3	80	8.2	79	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	10.3	98	10.1	96	2	70-130/30
75-09-2	Methylene chloride	10.2	8.7	85	8.6	84	1	70-130/30
78-93-3	Methyl ethyl ketone	10.4	7.6	73	7.8	75	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	8.7	85	9.4	92	8	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	8.6	82	8.6	82	0	70-130/30
80-62-6	Methylmethacrylate	10.3	7.9	77	8.5	83	7	70-130/30
91-20-3	Naphthalene	11.8	14.6	124	14.9	126	2	70-130/30
115-07-1	Propylene	10.6	7.6	72	7.5	71	1	70-130/30
100-42-5	Styrene	10.9	10.2	94	10.6	97	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.2	98	10.7	103	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	9.2	84	9.4	85	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	9.0	86	9.4	90	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	12.9	110	13.2	113	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.1	102	11.2	103	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	10.5	98	10.7	100	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.0	88	9.8	96	9	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	8.3	86	8.6	90	4	70-130/30
127-18-4	Tetrachloroethylene	10.7	11.9	111	11.6	108	3	70-130/30
109-99-9	Tetrahydrofuran	9.7	7.3	75	7.6	78	4	70-130/30
108-88-3	Toluene	10.6	9.3	88	9.3	88	0	70-130/30
79-01-6	Trichloroethylene	9.9	9.2	93	9.6	97	4	70-130/30
75-69-4	Trichlorofluoromethane	10.1	11.8	117	11.7	116	1	70-130/30
75-01-4	Vinyl chloride	10.2	9.8	96	9.9	97	1	70-130/30
108-05-4	Vinyl Acetate	10.2	7.8	76	8.1	79	4	70-130/30
	m,p-Xylene	21.2	19.6	92	20.1	95	3	70-130/30
95-47-6	o-Xylene	11	10.4	95	10.6	96	2	70-130/30
1330-20-7	Xylenes (total)	32.2	30.0	93	30.7	95	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W655-BS	7W18766.D	1	11/24/25	WC	n/a	n/a	V7W655
V7W655-BSD	7W18767.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	94%	94%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.2	98	9.9	95	3	70-130/30
106-99-0	1,3-Butadiene	10.3	10.8	105	10.5	102	3	70-130/30
71-43-2	Benzene	10.4	11.0	106	10.8	104	2	70-130/30
75-27-4	Bromodichloromethane	9.9	11.1	112	11.1	112	0	70-130/30
75-25-2	Bromoform	10.6	13.5	127	13.2	125	2	70-130/30
74-83-9	Bromomethane	10.2	11.6	114	11.5	113	1	70-130/30
593-60-2	Bromoethene	10.1	11.9	118	11.7	116	2	70-130/30
100-44-7	Benzyl Chloride	10.5	13.2	126	13.2	126	0	70-130/30
75-15-0	Carbon disulfide	10.6	10.8	102	10.6	100	2	70-130/30
108-90-7	Chlorobenzene	10.9	12.0	110	11.9	109	1	70-130/30
75-00-3	Chloroethane	10	9.8	98	9.8	98	0	70-130/30
67-66-3	Chloroform	10.5	11.4	109	11.2	107	2	70-130/30
74-87-3	Chloromethane	10.6	9.7	92	9.6	91	1	70-130/30
107-05-1	3-Chloropropene	10.2	9.8	96	9.7	95	1	70-130/30
95-49-8	2-Chlorotoluene	10.4	11.4	110	11.3	109	1	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.4	112	11.4	112	0	70-130/30
110-82-7	Cyclohexane	10.4	10.9	105	10.7	103	2	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.7	95	9.6	94	1	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.6	99	10.2	95	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	12.8	116	12.3	112	4	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.9	107	10.7	105	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.1	88	9.1	88	0	70-130/30
123-91-1	1,4-Dioxane	9.9	10.9	110	11.0	111	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.8	111	11.2	106	5	70-130/30
124-48-1	Dibromochloromethane	10.4	12.3	118	11.8	113	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	10.2	100	10.1	99	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10	96	9.9	95	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	10.2	101	1	70-130/30
541-73-1	m-Dichlorobenzene	10.5	13.0	124	12.8	122	2	70-130/30
95-50-1	o-Dichlorobenzene	10.7	12.4	116	12.0	112	3	70-130/30
106-46-7	p-Dichlorobenzene	10.8	12.1	112	11.9	110	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.6	100	1	70-130/30
64-17-5	Ethanol	9.7	11.4	118	10.7	110	6	70-130/30
100-41-4	Ethylbenzene	11	12.1	110	11.8	107	3	70-130/30
141-78-6	Ethyl Acetate	10.5	12.5	119	12.1	115	3	70-130/30
622-96-8	4-Ethyltoluene	10.6	13.0	123	12.8	121	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	12.3	118	12.0	115	2	70-130/30
142-82-5	Heptane	10.4	9.4	90	9.4	90	0	70-130/30
87-68-3	Hexachlorobutadiene	11.7	13.7	117	13.6	116	1	70-130/30
110-54-3	Hexane	10.5	9.9	94	9.7	92	2	70-130/30
591-78-6	2-Hexanone	10.4	12.0	115	11.6	112	3	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.5	90	9.2	88	3	70-130/30
75-09-2	Methylene chloride	10.2	9.8	96	9.5	93	3	70-130/30
78-93-3	Methyl ethyl ketone	10.4	12.5	120	12.2	117	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	11.3	111	11.4	112	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10.3	98	10.2	97	1	70-130/30
80-62-6	Methylmethacrylate	10.3	11.3	110	11.2	109	1	70-130/30
91-20-3	Naphthalene	11.8	13.6	115	13.4	114	1	70-130/30
115-07-1	Propylene	10.6	9.5	90	9.0	85	5	70-130/30
100-42-5	Styrene	10.9	12.5	115	12.2	112	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	11.3	109	11.0	106	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	12.4	113	12.1	110	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	11.2	107	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	13.5	115	13.1	112	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	13.3	122	13.0	119	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.6	108	11.4	107	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	10.4	102	10.6	104	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	10.2	106	9.7	101	5	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.5	117	3	70-130/30
109-99-9	Tetrahydrofuran	9.7	11.4	118	11.0	113	4	70-130/30
108-88-3	Toluene	10.6	10.6	100	10.8	102	2	70-130/30
79-01-6	Trichloroethylene	9.9	11.1	112	11.1	112	0	70-130/30
75-69-4	Trichlorofluoromethane	10.1	11.7	116	12.8	127	9	70-130/30
75-01-4	Vinyl chloride	10.2	10.8	106	10.7	105	1	70-130/30
108-05-4	Vinyl Acetate	10.2	11.4	112	11.3	111	1	70-130/30
	m,p-Xylene	21.2	23.5	111	23.4	110	0	70-130/30
95-47-6	o-Xylene	11	12.4	113	12.0	109	3	70-130/30
1330-20-7	Xylenes (total)	32.2	35.9	111	35.4	110	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2301-BS	5W60002.D	1	11/24/25	BK	n/a	n/a	V5W2301
V5W2301-BSD	5W60003.D	1	11/24/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W656-BS	7W18799.D	1	11/25/25	WC	n/a	n/a	V7W656
V7W656-BSD	7W18800.D	1	11/25/25	WC	n/a	n/a	V7W656

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	9.3	89	9.6	92	3	70-130/30
64-17-5	Ethanol	9.7	7.1	73	7.1	73	0	70-130/30
141-78-6	Ethyl Acetate	10.5	10	95	8.9	85	12	70-130/30
67-63-0	Isopropyl Alcohol	10.5	8.6	82	8.7	83	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	95%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	8.8	85	8.5	82	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.4	82	8.1	79	4	70-130/30
71-43-2	Benzene	10.4	9.8	94	9.6	92	2	70-130/30
75-27-4	Bromodichloromethane	9.9	10.3	104	10.1	102	2	70-130/30
75-25-2	Bromoform	10.6	15.4	145* [a]	15.1	142* [a]	2	70-130/30
74-83-9	Bromomethane	10.2	9.6	94	9.3	91	3	70-130/30
593-60-2	Bromoethene	10.1	10	99	9.7	96	3	70-130/30
100-44-7	Benzyl Chloride	10.5	9.9	94	9.7	92	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.1	86	9.0	85	1	70-130/30
108-90-7	Chlorobenzene	10.9	10.8	99	10.7	98	1	70-130/30
75-00-3	Chloroethane	10	8.5	85	8.3	83	2	70-130/30
67-66-3	Chloroform	10.5	10.3	98	10.1	96	2	70-130/30
74-87-3	Chloromethane	10.6	8.4	79	8.1	76	4	70-130/30
107-05-1	3-Chloropropene	10.2	8.8	86	8.6	84	2	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.6	102	10.6	102	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	10.7	105	10.5	103	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.1	97	3	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.5	93	9.1	89	4	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.0	93	9.8	92	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.3	103	11.0	100	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	9.4	92	9.2	90	2	70-130/30
78-87-5	1,2-Dichloropropane	10.3	9.9	96	9.6	93	3	70-130/30
123-91-1	1,4-Dioxane	9.9	10.3	104	10.0	101	3	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.7	101	10.2	96	5	70-130/30
124-48-1	Dibromochloromethane	10.4	11.7	113	11.5	111	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	8.8	86	8.6	84	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.1	97	9.8	94	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.1	100	9.9	98	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.6	101	10.5	100	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	10.6	99	10.6	99	0	70-130/30
106-46-7	p-Dichlorobenzene	10.8	10.8	100	10.9	101	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	9.7	101	9.5	99	2	70-130/30
64-17-5	Ethanol	9.7	8.7	90	8.4	87	4	70-130/30
100-41-4	Ethylbenzene	11	10.9	99	10.8	98	1	70-130/30
141-78-6	Ethyl Acetate	10.5	9.6	91	9.6	91	0	70-130/30
622-96-8	4-Ethyltoluene	10.6	10.8	102	10.7	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.2	106	11.0	104	2	70-130/30
76-14-2	Freon 114	10.4	10.1	97	9.8	94	3	70-130/30
142-82-5	Heptane	10.4	9.6	92	9.3	89	3	70-130/30
87-68-3	Hexachlorobutadiene	11.7	18.9	162* [a]	18.9	162* [a]	0	70-130/30
110-54-3	Hexane	10.5	9.5	90	9.2	88	3	70-130/30
591-78-6	2-Hexanone	10.4	8.5	82	8.4	81	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.0	86	8.8	84	2	70-130/30
75-09-2	Methylene chloride	10.2	9.0	88	8.8	86	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.6	92	9.3	89	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	8.9	87	8.8	86	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	9.6	91	9.3	89	3	70-130/30
80-62-6	Methylmethacrylate	10.3	10	97	9.7	94	3	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10	94	9.5	90	5	70-130/30
100-42-5	Styrene	10.9	11.1	102	11.1	102	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.3	99	10.1	97	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	10.8	98	10.7	97	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	10.8	103	10.5	100	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.3	139* [a]	16.3	139* [a]	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.1	102	11.1	102	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	10.8	101	10.8	101	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.4	92	9.2	90	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.2	75	7.1	74	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	12.9	121	12.7	119	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.2	95	4	70-130/30
108-88-3	Toluene	10.6	10.5	99	10.3	97	2	70-130/30
79-01-6	Trichloroethylene	9.9	10	101	9.7	98	3	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.3	102	10.0	99	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.4	82	8.2	80	2	70-130/30
108-05-4	Vinyl Acetate	10.2	9.8	96	9.6	94	2	70-130/30
	m,p-Xylene	21.2	21.0	99	20.7	98	1	70-130/30
95-47-6	o-Xylene	11	11.0	100	10.9	99	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.0	99	31.6	98	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-BS	7W17474.D	1	09/26/25	TCH	n/a	n/a	V7W613
V7W613-BSD	7W17475.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here applies to the following samples: **Method:** TO-15

V7W613-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	99%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	9.2	88	8.9	86	3	70-130/30
106-99-0	1,3-Butadiene	10.3	8.7	84	8.5	83	2	70-130/30
71-43-2	Benzene	10.4	9.9	95	9.8	94	1	70-130/30
75-27-4	Bromodichloromethane	9.9	10.6	107	10.3	104	3	70-130/30
75-25-2	Bromoform	10.6	16.0	151* [a]	15.9	150* [a]	1	70-130/30
74-83-9	Bromomethane	10.2	9.8	96	9.6	94	2	70-130/30
593-60-2	Bromoethene	10.1	10.2	101	10.0	99	2	70-130/30
100-44-7	Benzyl Chloride	10.5	10.5	100	10.3	98	2	70-130/30
75-15-0	Carbon disulfide	10.6	9.4	89	9.3	88	1	70-130/30
108-90-7	Chlorobenzene	10.9	11.0	101	10.9	100	1	70-130/30
75-00-3	Chloroethane	10	9.0	90	8.8	88	2	70-130/30
67-66-3	Chloroform	10.5	10.6	101	10.4	99	2	70-130/30
74-87-3	Chloromethane	10.6	8.7	82	8.5	80	2	70-130/30
107-05-1	3-Chloropropene	10.2	9.1	89	8.8	86	3	70-130/30
95-49-8	2-Chlorotoluene	10.4	10.8	104	10.8	104	0	70-130/30
56-23-5	Carbon tetrachloride	10.2	11.1	109	10.9	107	2	70-130/30
110-82-7	Cyclohexane	10.4	10.4	100	10.3	99	1	70-130/30
75-34-3	1,1-Dichloroethane	10.2	9.8	96	10	98	2	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.4	97	10.1	94	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.6	105	11.3	103	3	70-130/30
107-06-2	1,2-Dichloroethane	10.2	10.1	99	9.8	96	3	70-130/30
78-87-5	1,2-Dichloropropane	10.3	10.3	100	10.1	98	2	70-130/30
123-91-1	1,4-Dioxane	9.9	10.8	109	10.4	105	4	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	10.6	100	10.4	98	2	70-130/30
124-48-1	Dibromochloromethane	10.4	12.2	117	11.9	114	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.2	9.0	88	8.7	85	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.4	10.3	99	10.1	97	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.1	10.4	103	10.2	101	2	70-130/30
541-73-1	m-Dichlorobenzene	10.5	10.8	103	10.8	103	0	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.1	104	10.9	102	2	70-130/30
106-46-7	p-Dichlorobenzene	10.8	11.1	103	10.9	101	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	9.6	10.1	105	9.9	103	2	70-130/30
64-17-5	Ethanol	9.7	7.7	79	7.5	77	3	70-130/30
100-41-4	Ethylbenzene	11	11.2	102	11.1	101	1	70-130/30
141-78-6	Ethyl Acetate	10.5	10.2	97	10.1	96	1	70-130/30
622-96-8	4-Ethyltoluene	10.6	11.0	104	11.0	104	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.4	108	11.4	108	0	70-130/30
76-14-2	Freon 114	10.4	10.4	100	10.2	98	2	70-130/30
142-82-5	Heptane	10.4	9.8	94	9.6	92	2	70-130/30
87-68-3	Hexachlorobutadiene	11.7	19.6	168* [a]	19.1	163* [a]	3	70-130/30
110-54-3	Hexane	10.5	9.7	92	9.6	91	1	70-130/30
591-78-6	2-Hexanone	10.4	9.2	88	9.1	88	1	70-130/30
67-63-0	Isopropyl Alcohol	10.5	9.7	92	9.3	89	4	70-130/30
75-09-2	Methylene chloride	10.2	9.2	90	9.0	88	2	70-130/30
78-93-3	Methyl ethyl ketone	10.4	9.8	94	9.5	91	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.2	9.5	93	9.4	92	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.5	10	95	9.8	93	2	70-130/30
80-62-6	Methylmethacrylate	10.3	10.3	100	10.1	98	2	70-130/30
91-20-3	Naphthalene	11.8	14.0	119	13.9	118	1	70-130/30
115-07-1	Propylene	10.6	10.2	96	9.9	93	3	70-130/30
100-42-5	Styrene	10.9	11.4	105	11.4	105	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.4	10.8	104	10.5	101	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	11	11.2	102	11.1	101	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.5	11.0	105	10.9	104	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	11.7	16.6	142* [a]	16.4	140* [a]	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10.9	11.5	106	11.3	104	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.7	11.2	105	11.1	104	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.2	9.7	95	9.4	92	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.6	7.8	81	7.7	80	1	70-130/30
127-18-4	Tetrachloroethylene	10.7	13.7	128	13.4	125	2	70-130/30
109-99-9	Tetrahydrofuran	9.7	9.6	99	9.6	99	0	70-130/30
108-88-3	Toluene	10.6	10.8	102	10.5	99	3	70-130/30
79-01-6	Trichloroethylene	9.9	10.1	102	10	101	1	70-130/30
75-69-4	Trichlorofluoromethane	10.1	10.7	106	10.4	103	3	70-130/30
75-01-4	Vinyl chloride	10.2	8.9	87	8.7	85	2	70-130/30
108-05-4	Vinyl Acetate	10.2	10.2	100	9.9	97	3	70-130/30
	m,p-Xylene	21.2	21.4	101	21.3	100	0	70-130/30
95-47-6	o-Xylene	11	11.2	102	11.1	101	1	70-130/30
1330-20-7	Xylenes (total)	32.2	32.6	101	32.4	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-BS	7W17802.D	1	10/13/25	TCH	n/a	n/a	V7W624
V7W624-BSD	7W17803.D	1	10/13/25	TCH	n/a	n/a	V7W624

The QC reported here applies to the following samples: **Method:** TO-15

V7W624-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W647-BS	7W18505.D	1	11/12/25	TCH	n/a	n/a	V7W647
V7W647-BSD	7W18506.D	1	11/12/25	TCH	n/a	n/a	V7W647

The QC reported here applies to the following samples: **Method:** TO-15

V7W647-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.4	10.5	101	11.0	106	5	70-130/30
64-17-5	Ethanol	9.7	8.9	92	9.5	98	7	70-130/30
141-78-6	Ethyl Acetate	10.5	10.1	96	10.6	101	5	70-130/30
67-63-0	Isopropyl Alcohol	10.5	10.3	98	11.1	106	7	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	92%	91%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	155		157		1	25
106-99-0	1,3-Butadiene	ND [a]		ND		nc	25
71-43-2	Benzene	0.28 [a]		ND		200* [b]	25
75-27-4	Bromodichloromethane	ND [a]		ND		nc	25
75-25-2	Bromoform	ND [a]		ND		nc	25
74-83-9	Bromomethane	ND [a]		ND		nc	25
593-60-2	Bromoethene	ND [a]		ND		nc	25
100-44-7	Benzyl Chloride	ND [a]		ND		nc	25
75-15-0	Carbon disulfide	ND [a]		ND		nc	25
108-90-7	Chlorobenzene	ND [a]		ND		nc	25
75-00-3	Chloroethane	ND [a]		ND		nc	25
67-66-3	Chloroform	0.24 [a]		ND		200* [b]	25
74-87-3	Chloromethane	0.11 [a]		ND		200* [b]	25
107-05-1	3-Chloropropene	ND [a]		ND		nc	25
95-49-8	2-Chlorotoluene	ND [a]		ND		nc	25
56-23-5	Carbon tetrachloride	ND [a]		ND		nc	25
110-82-7	Cyclohexane	0.18 [a]		ND		200* [b]	25
75-34-3	1,1-Dichloroethane	ND [a]		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND [a]		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND [a]		ND		nc	25
107-06-2	1,2-Dichloroethane	ND [a]		ND		nc	25
78-87-5	1,2-Dichloropropane	ND [a]		ND		nc	25
123-91-1	1,4-Dioxane	ND [a]		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.50 [a]		0.51	J	2	25
124-48-1	Dibromochloromethane	ND [a]		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND [a]		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND [a]		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND [a]		ND		nc	25
541-73-1	m-Dichlorobenzene	0.23 [a]		ND		200* [b]	25
95-50-1	o-Dichlorobenzene	ND [a]		ND		nc	25
106-46-7	p-Dichlorobenzene	ND [a]		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND [a]		ND		nc	25
64-17-5	Ethanol	205		209		2	25
100-41-4	Ethylbenzene	0.14 [a]		ND		200* [b]	25
141-78-6	Ethyl Acetate	17.7 [a]		16.3		8	25
622-96-8	4-Ethyltoluene	ND [a]		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Compound	JE23789-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND [a]		ND		nc	25
76-14-2	Freon 114	ND [a]		ND		nc	25
142-82-5	Heptane	5.6 [a]		5.1		9	25
87-68-3	Hexachlorobutadiene	ND [a]		ND		nc	25
110-54-3	Hexane	0.34 [a]		ND		200* [b]	25
591-78-6	2-Hexanone	ND [a]		ND		nc	25
67-63-0	Isopropyl Alcohol	11.9 [a]		12.5		5	25
75-09-2	Methylene chloride	0.27 [a]		ND		200* [b]	25
78-93-3	Methyl ethyl ketone	2.0 [a]		1.7		16	25
108-10-1	Methyl Isobutyl Ketone	ND [a]		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND [a]		ND		nc	25
80-62-6	Methylmethacrylate	4.9 [a]		4.6		6	25
91-20-3	Naphthalene	ND [a]		ND		nc	25
115-07-1	Propylene	ND [a]		ND		nc	25
100-42-5	Styrene	ND [a]		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND [a]		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND [a]		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND [a]		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND [a]		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND [a]		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND [a]		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	3.1 [a]		3.4		9	25
127-18-4	Tetrachloroethylene	0.76 [a]		0.80		5	25
109-99-9	Tetrahydrofuran	0.14 [a]		ND		200* [b]	25
108-88-3	Toluene	1.1 [a]		1.1		0	25
79-01-6	Trichloroethylene	ND [a]		ND		nc	25
75-69-4	Trichlorofluoromethane	1.0 [a]		1.0		0	25
75-01-4	Vinyl chloride	ND [a]		ND		nc	25
108-05-4	Vinyl Acetate	1.1 [a]		0.85		26* [c]	25
	m,p-Xylene	0.44 [a]		ND		200* [b]	25
95-47-6	o-Xylene	0.17 [a]		ND		200* [b]	25
1330-20-7	Xylenes (total)	0.61 [a]		ND		200* [b]	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23789-3DUP	5W60008.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60007.D	1	11/24/25	BK	n/a	n/a	V5W2301
JE23789-3	5W60028.D	1	11/25/25	BK	n/a	n/a	V5W2301

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-1, JE23789-3

CAS No.	Surrogate Recoveries	DUP	JE23789-3	JE23789-3	Limits
460-00-4	4-Bromofluorobenzene	109%	108%	109%	65-128%

(a) Result is from Run #2.
(b) RPD acceptable due to low DUP and sample concentrations.
(c) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23787-3DUP	7W18777.D	1	11/24/25	WC	n/a	n/a	V7W655
JE23787-3	7W18776.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	JE23787-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.45	J	0.45	J	0	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	0.47		0.44	J	7	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	4.6		4.0		14	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	4.0		4.1		2	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25
76-13-1	Freon 113	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23787-3DUP	7W18777.D	1	11/24/25	WC	n/a	n/a	V7W655
JE23787-3	7W18776.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	JE23787-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	0.46	J	0.41	J	11	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	1.6		1.5		6	25
75-09-2	Methylene chloride	0.53	J	0.54	J	2	25
78-93-3	Methyl ethyl ketone	ND		ND		nc	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
91-20-3	Naphthalene	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	53.4		55.6		4	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	ND		ND		nc	25
79-01-6	Trichloroethylene	0.87		0.75		15	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE23787-3DUP	7W18777.D	1	11/24/25	WC	n/a	n/a	V7W655
JE23787-3	7W18776.D	1	11/24/25	WC	n/a	n/a	V7W655

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Surrogate Recoveries	DUP	JE23787-3	Limits
460-00-4	4-Bromofluorobenzene	92%	87%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE24006-1DUP	7W18804.D	1	11/25/25	WC	n/a	n/a	V7W656
JE24006-1	7W18803.D	1	11/25/25	WC	n/a	n/a	V7W656

The QC reported here applies to the following samples: **Method:** TO-15

JE23789-2, JE23789-4

CAS No.	Compound	JE24006-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	2.7		2.6		4	25
64-17-5	Ethanol	3.5		3.2		9	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	0.19	J	0.16	J	17	25

CAS No.	Surrogate Recoveries	DUP	JE24006-1	Limits
460-00-4	4-Bromofluorobenzene	91%	91%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23789-1(A1625), JE23789-3(A1590), JE23789-4(A2165)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23789-1(A1625), JE23789-3(A1590), JE23789-4(A2165)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W613-SCC	7W17483.D	1	09/26/25	TCH	n/a	n/a	V7W613

The QC reported here (Summa A053) applies to the following samples: **Method:** TO-15

Batch CP13198 cleaned 09/19/25: JE23789-1(A1625), JE23789-3(A1590), JE23789-4(A2165)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Summa Cleaning Certification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23789-2(M097)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23789-2(M097)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	ppbv		ND	0.82	ug/m3
91-20-3	Naphthalene	ND	0.20	ppbv		ND	1.0	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W624-SCC	7W17827.D	1	10/14/25	TCH	n/a	n/a	V7W624

The QC reported here (Summa A1088) applies to the following samples: **Method:** TO-15

Batch CP13206 cleaned 10/01/25: JE23789-2(M097)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Summa Cleaning Certification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W647-SCC	7W18509.D	1	11/12/25	TCH	n/a	n/a	V7W647

The QC reported here (Summa A793) applies to the following samples: **Method:** TO-15

Batch CP13217 cleaned 10/28/25: JE23789-2(M327), JE23789-4(M332)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	ppbv		ND	1.9	ug/m3
64-17-5	Ethanol	ND	2.0	ppbv		ND	3.8	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	ppbv		ND	2.9	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	ppbv		ND	2.0	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	87%	65-128%

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2292-BFB	**Injection Date:**	11/06/25
Lab File ID:	5W59768.D	**Injection Time:**	21:59
Instrument ID:	GCMS5W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	135749	18.8		Pass
75	30.0 - 66.0% of mass 95	334528	46.4		Pass
95	Base peak, 100% relative abundance	720341	100.0		Pass
96	5.0 - 9.0% of mass 95	49469	6.87		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	662677	92.0		Pass
175	4.0 - 9.01% of mass 174	51795	7.19	(7.82) [a]	Pass
176	93.0 - 101.0% of mass 174	657579	91.3	(99.2) [a]	Pass
177	5.0 - 9.0% of mass 176	45267	6.28	(6.88) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2292-IC2292	5W59769.D	11/06/25	22:35	00:36	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25	23:11	01:12	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25	23:50	01:51	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25	03:41	05:42	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25	06:57	08:58	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25	07:33	09:34	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25	08:12	10:13	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25	08:54	10:55	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25	09:38	11:39	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25	10:24	12:25	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25	12:25	14:26	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2301-BFB
Lab File ID: 5W60000.D
Instrument ID: GCMS5W
Injection Date: 11/24/25
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	126995	16.6		Pass
75	30.0 - 66.0% of mass 95	346987	45.5		Pass
95	Base peak, 100% relative abundance	763029	100.0		Pass
96	5.0 - 9.0% of mass 95	51400	6.74		Pass
173	Less than 2.0% of mass 174	6908	0.91	(0.88) [a]	Pass
174	50.0 - 120.0% of mass 95	783595	102.7		Pass
175	4.0 - 9.01% of mass 174	58229	7.63	(7.43) [a]	Pass
176	93.0 - 101.0% of mass 174	761195	99.8	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	50824	6.66	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2301-CC2292	5W60001.D	11/24/25	09:49	00:37	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25	12:02	02:50	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25	12:39	03:27	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25	14:27	05:15	Method Blank
JE23789-1	5W60006.D	11/24/25	15:18	06:06	SS-3
JE23789-3	5W60007.D	11/24/25	15:56	06:44	SS-4
JE23789-3DUP	5W60008.D	11/24/25	16:33	07:21	Duplicate
ZZZZZZ	5W60009.D	11/24/25	17:15	08:03	(unrelated sample)
ZZZZZZ	5W60010.D	11/24/25	17:58	08:46	(unrelated sample)
ZZZZZZ	5W60011.D	11/24/25	18:41	09:29	(unrelated sample)
ZZZZZZ	5W60012.D	11/24/25	19:25	10:13	(unrelated sample)
ZZZZZZ	5W60013.D	11/24/25	20:08	10:56	(unrelated sample)
ZZZZZZ	5W60014.D	11/24/25	20:52	11:40	(unrelated sample)
ZZZZZZ	5W60015.D	11/24/25	21:35	12:23	(unrelated sample)
ZZZZZZ	5W60016.D	11/24/25	22:19	13:07	(unrelated sample)
ZZZZZZ	5W60017.D	11/24/25	23:02	13:50	(unrelated sample)
ZZZZZZ	5W60018.D	11/24/25	23:46	14:34	(unrelated sample)
ZZZZZZ	5W60019.D	11/25/25	00:29	15:17	(unrelated sample)
ZZZZZZ	5W60020.D	11/25/25	01:14	16:02	(unrelated sample)
ZZZZZZ	5W60021.D	11/25/25	01:58	16:46	(unrelated sample)
ZZZZZZ	5W60022.D	11/25/25	02:43	17:31	(unrelated sample)
ZZZZZZ	5W60023.D	11/25/25	03:27	18:15	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25	04:12	19:00	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25	05:54	20:42	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V5W2301-BFB	**Injection Date:**	11/24/25
Lab File ID:	5W60000.D	**Injection Time:**	09:12
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JE23789-1	5W60027.D	11/25/25	06:37	21:25	SS-3
JE23789-3	5W60028.D	11/25/25	07:20	22:08	SS-4
ZZZZZZ	5W60029.D	11/25/25	07:57	22:45	(unrelated sample)
ZZZZZZ	5W60030.D	11/25/25	08:34	23:22	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W577-BFB	**Injection Date:**	08/07/25
Lab File ID:	7W16573.D	**Injection Time:**	02:05
Instrument ID:	GCMS7W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	26979	21.8		Pass
75	30.0 - 66.0% of mass 95	60811	49.0		Pass
95	Base peak, 100% relative abundance	123992	100.0		Pass
96	5.0 - 9.0% of mass 95	7953	6.41		Pass
173	Less than 2.0% of mass 174	724	0.58	(0.83) [a]	Pass
174	50.0 - 120.0% of mass 95	87088	70.2		Pass
175	4.0 - 9.01% of mass 174	6502	5.24	(7.47) [a]	Pass
176	93.0 - 101.0% of mass 174	87355	70.5	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	5835	4.71	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W577-IC577	7W16576.D	08/07/25	04:00	01:55	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25	04:38	02:33	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25	08:36	06:31	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25	09:13	07:08	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25	12:29	10:24	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25	13:07	11:02	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25	13:47	11:42	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25	14:30	12:25	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25	15:15	13:10	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25	16:02	13:57	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25	18:07	16:02	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W613-BFB
Lab File ID: 7W17472.D
Instrument ID: GCMS7W
Injection Date: 09/26/25
Injection Time: 10:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	24211	19.5		Pass
75	30.0 - 66.0% of mass 95	60491	48.8		Pass
95	Base peak, 100% relative abundance	124040	100.0		Pass
96	5.0 - 9.0% of mass 95	8048	6.49		Pass
173	Less than 2.0% of mass 174	644	0.52	(0.57) [a]	Pass
174	50.0 - 120.0% of mass 95	113392	91.4		Pass
175	4.0 - 9.01% of mass 174	8039	6.48	(7.09) [a]	Pass
176	93.0 - 101.0% of mass 174	109491	88.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7193	5.80	(6.57) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W613-CC577	7W17473.D	09/26/25	11:04	00:39	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25	11:54	01:29	Blank Spike
V7W613-BSD	7W17475.D	09/26/25	12:32	02:07	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25	14:01	03:36	Method Blank
ZZZZZZ	7W17478.D	09/26/25	15:51	05:26	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25	16:43	06:18	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25	17:30	07:05	(unrelated sample)
JE19193-2	7W17481.D	09/26/25	18:21	07:56	(used for QC only; not part of job JE23789)
JE19193-2DUP	7W17482.D	09/26/25	19:09	08:44	Duplicate
V7W613-SCC	7W17483.D	09/26/25	19:55	09:30	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25	20:38	10:13	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25	21:22	10:57	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25	22:06	11:41	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25	22:50	12:25	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25	23:33	13:08	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25	00:13	13:48	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25	00:52	14:27	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25	01:31	15:06	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25	02:11	15:46	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25	02:50	16:25	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25	03:29	17:04	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25	04:08	17:43	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25	04:48	18:23	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W624-BFB
Lab File ID: 7W17800.D
Instrument ID: GCMS7W
Injection Date: 10/13/25
Injection Time: 10:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	32653	19.8		Pass
75	30.0 - 66.0% of mass 95	83059	50.4		Pass
95	Base peak, 100% relative abundance	164693	100.0		Pass
96	5.0 - 9.0% of mass 95	10435	6.34		Pass
173	Less than 2.0% of mass 174	1376	0.84	(0.93) [a]	Pass
174	50.0 - 120.0% of mass 95	148181	90.0		Pass
175	4.0 - 9.01% of mass 174	10927	6.63	(7.37) [a]	Pass
176	93.0 - 101.0% of mass 174	148821	90.4	(100.4) [a]	Pass
177	5.0 - 9.0% of mass 176	9210	5.59	(6.19) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W624-CC577	7W17801.D	10/13/25	11:18	00:37	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25	12:00	01:19	Blank Spike
V7W624-BSD	7W17803.D	10/13/25	12:37	01:56	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25	14:03	03:22	Method Blank
ZZZZZZ	7W17806.D	10/13/25	15:24	04:43	(unrelated sample)
JE20702-1	7W17807.D	10/13/25	16:09	05:28	(used for QC only; not part of job JE23789)
JE20702-1DUP	7W17808.D	10/13/25	16:55	06:14	Duplicate
ZZZZZZ	7W17809.D	10/13/25	17:45	07:04	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25	18:38	07:57	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25	19:25	08:44	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25	20:14	09:33	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25	21:05	10:24	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25	21:58	11:17	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25	22:49	12:08	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25	23:42	13:01	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25	00:27	13:46	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25	01:14	14:33	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25	02:02	15:21	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25	02:51	16:10	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25	03:40	16:59	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25	04:19	17:38	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25	04:58	18:17	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25	05:38	18:57	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25	06:17	19:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W624-BFB	**Injection Date:**	10/13/25
Lab File ID:	7W17800.D	**Injection Time:**	10:41
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W17826.D	10/14/25	06:55	20:14	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25	07:39	20:58	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25	08:23	21:42	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25	09:07	22:26	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W647-BFB
Lab File ID: 7W18503.D
Instrument ID: GCMS7W
Injection Date: 11/12/25
Injection Time: 10:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	27053	23.5		Pass
75	30.0 - 66.0% of mass 95	57293	49.7		Pass
95	Base peak, 100% relative abundance	115216	100.0		Pass
96	5.0 - 9.0% of mass 95	7334	6.37		Pass
173	Less than 2.0% of mass 174	656	0.57	(0.70) [a]	Pass
174	50.0 - 120.0% of mass 95	94288	81.8		Pass
175	4.0 - 9.01% of mass 174	6833	5.93	(7.25) [a]	Pass
176	93.0 - 101.0% of mass 174	91013	79.0	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	5531	4.80	(6.08) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W647-CC577	7W18504.D	11/12/25	11:33	00:37	Continuing cal 10
V7W647-BS	7W18505.D	11/12/25	12:15	01:19	Blank Spike
V7W647-BSD	7W18506.D	11/12/25	12:53	01:57	Blank Spike Duplicate
V7W647-MB	7W18508.D	11/12/25	14:23	03:27	Method Blank
V7W647-SCC	7W18509.D	11/12/25	15:20	04:24	Summa Cleaning Certification
V7W647-SCC	7W18510.D	11/12/25	15:59	05:03	Summa Cleaning Certification
V7W647-SCC	7W18511.D	11/12/25	16:38	05:42	Summa Cleaning Certification
V7W647-SCC	7W18512.D	11/12/25	17:16	06:20	Summa Cleaning Certification
V7W647-SCC	7W18513.D	11/12/25	17:56	07:00	Summa Cleaning Certification
V7W647-SCC	7W18514.D	11/12/25	18:33	07:37	Summa Cleaning Certification
ZZZZZZ	7W18515.D	11/12/25	19:15	08:19	(unrelated sample)
ZZZZZZ	7W18516.D	11/12/25	19:56	09:00	(unrelated sample)
JE22625-1	7W18517.D	11/12/25	20:36	09:40	(used for QC only; not part of job JE23789)
JE22625-1DUP	7W18518.D	11/12/25	21:16	10:20	Duplicate
ZZZZZZ	7W18519.D	11/12/25	21:54	10:58	(unrelated sample)
ZZZZZZ	7W18520.D	11/12/25	22:33	11:37	(unrelated sample)
ZZZZZZ	7W18521.D	11/12/25	23:12	12:16	(unrelated sample)
ZZZZZZ	7W18522.D	11/12/25	23:52	12:56	(unrelated sample)
ZZZZZZ	7W18523.D	11/13/25	00:31	13:35	(unrelated sample)
ZZZZZZ	7W18524.D	11/13/25	01:10	14:14	(unrelated sample)
ZZZZZZ	7W18525.D	11/13/25	01:48	14:52	(unrelated sample)
ZZZZZZ	7W18526.D	11/13/25	02:26	15:30	(unrelated sample)
ZZZZZZ	7W18527.D	11/13/25	03:07	16:11	(unrelated sample)
ZZZZZZ	7W18528.D	11/13/25	03:45	16:49	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample:	V7W647-BFB	**Injection Date:**	11/12/25
Lab File ID:	7W18503.D	**Injection Time:**	10:56
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W18529.D	11/13/25	04:24	17:28	(unrelated sample)
ZZZZZZ	7W18530.D	11/13/25	05:04	18:08	(unrelated sample)
ZZZZZZ	7W18531.D	11/13/25	05:43	18:47	(unrelated sample)
ZZZZZZ	7W18532.D	11/13/25	06:24	19:28	(unrelated sample)
ZZZZZZ	7W18533.D	11/13/25	07:03	20:07	(unrelated sample)
ZZZZZZ	7W18534.D	11/13/25	07:41	20:45	(unrelated sample)
ZZZZZZ	7W18535.D	11/13/25	08:19	21:23	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W655-BFB
Lab File ID: 7W18764.D
Instrument ID: GCMS7W
Injection Date: 11/24/25
Injection Time: 09:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	28461	21.0		Pass
75	30.0 - 66.0% of mass 95	64213	47.4		Pass
95	Base peak, 100% relative abundance	135381	100.0		Pass
96	5.0 - 9.0% of mass 95	8482	6.27		Pass
173	Less than 2.0% of mass 174	713	0.53	(0.67) [a]	Pass
174	50.0 - 120.0% of mass 95	106256	78.5		Pass
175	4.0 - 9.01% of mass 174	7559	5.58	(7.11) [a]	Pass
176	93.0 - 101.0% of mass 174	101904	75.3	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	6737	4.98	(6.61) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W655-CC577	7W18765.D	11/24/25	09:52	00:38	Continuing cal 10
V7W655-BS	7W18766.D	11/24/25	10:35	01:21	Blank Spike
V7W655-BSD	7W18767.D	11/24/25	11:15	02:01	Blank Spike Duplicate
V7W655-MB	7W18769.D	11/24/25	12:43	03:29	Method Blank
JE23787-3	7W18776.D	11/24/25	18:48	09:34	(used for QC only; not part of job JE23789)
JE23787-3DUP	7W18777.D	11/24/25	19:27	10:13	Duplicate
ZZZZZZ	7W18778.D	11/24/25	20:12	10:58	(unrelated sample)
ZZZZZZ	7W18779.D	11/24/25	20:56	11:42	(unrelated sample)
ZZZZZZ	7W18780.D	11/24/25	21:35	12:21	(unrelated sample)
ZZZZZZ	7W18781.D	11/24/25	22:19	13:05	(unrelated sample)
JE23789-2	7W18783.D	11/24/25	23:51	14:37	IA-3
JE23789-4	7W18784.D	11/25/25	00:38	15:24	IA-4
ZZZZZZ	7W18785.D	11/25/25	01:26	16:12	(unrelated sample)
ZZZZZZ	7W18786.D	11/25/25	02:13	16:59	(unrelated sample)
ZZZZZZ	7W18787.D	11/25/25	02:51	17:37	(unrelated sample)
ZZZZZZ	7W18788.D	11/25/25	03:31	18:17	(unrelated sample)
ZZZZZZ	7W18789.D	11/25/25	04:10	18:56	(unrelated sample)
ZZZZZZ	7W18790.D	11/25/25	04:50	19:36	(unrelated sample)
ZZZZZZ	7W18791.D	11/25/25	05:30	20:16	(unrelated sample)
ZZZZZZ	7W18792.D	11/25/25	06:09	20:55	(unrelated sample)
ZZZZZZ	7W18793.D	11/25/25	06:49	21:35	(unrelated sample)
ZZZZZZ	7W18794.D	11/25/25	07:36	22:22	(unrelated sample)
ZZZZZZ	7W18795.D	11/25/25	08:15	23:01	(unrelated sample)
JE23789-2	7W18796.D	11/25/25	08:52	23:38	IA-3

Instrument Performance Check (BFB)

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W656-BFB
Lab File ID: 7W18797.D
Instrument ID: GCMS7W
Injection Date: 11/25/25
Injection Time: 10:02

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	21043	20.3		Pass
75	30.0 - 66.0% of mass 95	51613	49.9		Pass
95	Base peak, 100% relative abundance	103501	100.0		Pass
96	5.0 - 9.0% of mass 95	6738	6.51		Pass
173	Less than 2.0% of mass 174	605	0.58	(0.74) [a]	Pass
174	50.0 - 120.0% of mass 95	81472	78.7		Pass
175	4.0 - 9.01% of mass 174	6279	6.07	(7.71) [a]	Pass
176	93.0 - 101.0% of mass 174	79312	76.6	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	5053	4.88	(6.37) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W656-CC577	7W18798.D	11/25/25	10:39	00:37	Continuing cal 10
V7W656-BS	7W18799.D	11/25/25	11:31	01:29	Blank Spike
V7W656-BSD	7W18800.D	11/25/25	12:09	02:07	Blank Spike Duplicate
V7W656-MB	7W18802.D	11/25/25	13:43	03:41	Method Blank
JE24006-1	7W18803.D	11/25/25	14:38	04:36	(used for QC only; not part of job JE23789)
JE24006-1DUP	7W18804.D	11/25/25	15:24	05:22	Duplicate
JE23789-2	7W18805.D	11/25/25	16:04	06:02	IA-3
JE23789-4	7W18806.D	11/25/25	16:48	06:46	IA-4
ZZZZZZ	7W18807.D	11/25/25	17:26	07:24	(unrelated sample)
ZZZZZZ	7W18808.D	11/25/25	18:05	08:03	(unrelated sample)
ZZZZZZ	7W18810.D	11/25/25	19:33	09:31	(unrelated sample)
ZZZZZZ	7W18820.D	11/26/25	02:52	16:50	(unrelated sample)
ZZZZZZ	7W18821.D	11/26/25	03:30	17:28	(unrelated sample)
ZZZZZZ	7W18822.D	11/26/25	04:08	18:06	(unrelated sample)
ZZZZZZ	7W18823.D	11/26/25	04:46	18:44	(unrelated sample)
ZZZZZZ	7W18824.D	11/26/25	05:25	19:23	(unrelated sample)

Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V5W2301-CC2292	**Injection Date:**	11/24/25
Lab File ID:	5W60001.D	**Injection Time:**	09:49
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	470220	7.35	2049823	9.21	1097928	13.53
Upper Limit [a]	658308	7.68	2869752	9.54	1537099	13.86
Lower Limit [b]	282132	7.02	1229894	8.88	658757	13.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2301-BS	477635	7.35	2106400	9.21	1093252	13.53
V5W2301-BSD	479179	7.35	2114849	9.21	1129270	13.53
V5W2301-MB	551412	7.35	2422137	9.21	1175032	13.53
JE23789-1	479276	7.34	2151488	9.20	1006479	13.53
JE23789-3	486262	7.35	2215300	9.21	1093617	13.53
JE23789-3DUP	490041	7.35	2190031	9.21	1089506	13.53
ZZZZZZ	467172	7.35	2081525	9.21	995730	13.53
ZZZZZZ	492269	7.35	2182901	9.21	1069119	13.53
ZZZZZZ	456556	7.35	2083658	9.21	1040810	13.53
ZZZZZZ	478467	7.35	2172826	9.21	1077180	13.53
ZZZZZZ	475205	7.35	2156975	9.21	973217	13.53
ZZZZZZ	468744	7.35	2166394	9.21	1085776	13.53
ZZZZZZ	474128	7.35	2121035	9.21	1035907	13.53
ZZZZZZ	481013	7.35	2162967	9.21	1070422	13.53
ZZZZZZ	475052	7.35	2137020	9.21	997545	13.53
ZZZZZZ	474848	7.36	2108916	9.21	1017029	13.53
ZZZZZZ	488279	7.35	2202107	9.21	1020272	13.53
ZZZZZZ	464538	7.35	2148688	9.21	1036446	13.53
ZZZZZZ	494809	7.34	2211542	9.20	1056914	13.53
ZZZZZZ	469833	7.35	2110422	9.21	1027988	13.53
ZZZZZZ	476461	7.35	2112621	9.21	1018512	13.53
ZZZZZZ	489936	7.35	2117411	9.21	1030226	13.53
ZZZZZZ	488795	7.35	2169845	9.21	1097700	13.53
JE23789-1	457379	7.35	2030446	9.21	965813	13.53
JE23789-3	487990	7.35	2191861	9.21	1085055	13.53
ZZZZZZ	467512	7.34	2049365	9.21	954808	13.53
ZZZZZZ	474173	7.35	2069410	9.21	971499	13.53

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W613-CC577	**Injection Date:**	09/26/25
Lab File ID:	7W17473.D	**Injection Time:**	11:04
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	116358	3.19	571811	4.45	520899	9.97
Upper Limit [a]	162901	3.52	800535	4.78	729259	10.30
Lower Limit [b]	69815	2.86	343087	4.12	312539	9.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W613-BS	117537	3.19	576557	4.45	537853	9.97
V7W613-BSD	119187	3.19	585415	4.45	537645	9.97
V7W613-MB	128174	3.19	642694	4.45	594320	9.96
ZZZZZZ	119787	3.19	602923	4.45	564591	9.96
ZZZZZZ	115596	3.19	572850	4.45	549268	9.97
ZZZZZZ	119426	3.19	598587	4.45	559501	9.97
JE19193-2	112064	3.19	565732	4.45	535025	9.96
JE19193-2DUP	119852	3.19	593173	4.45	552085	9.97
V7W613-SCC	122841	3.19	609530	4.45	568575	9.97
V7W613-SCC	123267	3.19	612589	4.45	566370	9.97
V7W613-SCC	124035	3.19	614922	4.45	572447	9.97
V7W613-SCC	122792	3.19	613182	4.45	569186	9.97
V7W613-SCC	123364	3.19	617156	4.45	570765	9.96
V7W613-SCC	121230	3.19	603406	4.45	557323	9.97
V7W613-SCC	124644	3.20	619956	4.46	573347	9.97
V7W613-SCC	122766	3.20	607988	4.46	562421	9.97
V7W613-SCC	122015	3.20	599456	4.46	558700	9.97
V7W613-SCC	123531	3.20	612393	4.46	566814	9.97
V7W613-SCC	121013	3.20	597047	4.46	554808	9.97
V7W613-SCC	125065	3.20	614767	4.46	568943	9.97
V7W613-SCC	124050	3.21	612021	4.46	566843	9.97
V7W613-SCC	122222	3.20	607269	4.46	565306	9.97

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W624-CC577	**Injection Date:**	10/13/25
Lab File ID:	7W17801.D	**Injection Time:**	11:18
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	133953	3.19	659891	4.45	616286	9.96
Upper Limit [a]	187534	3.52	923847	4.78	862800	10.29
Lower Limit [b]	80372	2.86	395935	4.12	369772	9.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W624-BS	130379	3.19	642815	4.45	599585	9.97
V7W624-BSD	133015	3.19	654252	4.45	606507	9.97
V7W624-MB	141808	3.19	703798	4.45	657479	9.96
ZZZZZZ	135394	3.21	669430	4.46	626248	9.97
JE20702-1	133082	3.19	664568	4.45	629037	9.96
JE20702-1DUP	127619	3.19	640507	4.45	607064	9.96
ZZZZZZ	128810	3.19	643176	4.45	605309	9.96
ZZZZZZ	125599	3.19	622159	4.45	593488	9.96
ZZZZZZ	127374	3.19	637226	4.45	604051	9.96
ZZZZZZ	125963	3.19	637764	4.45	602349	9.96
ZZZZZZ	131364	3.19	653605	4.45	609498	9.97
ZZZZZZ	123237	3.19	615381	4.45	583060	9.96
ZZZZZZ	131555	3.19	651668	4.45	604825	9.96
ZZZZZZ	123888	3.19	619782	4.45	585599	9.96
ZZZZZZ	122352	3.19	617796	4.45	579165	9.96
ZZZZZZ	122263	3.21	606145	4.46	576052	9.97
ZZZZZZ	123557	3.21	619493	4.46	584556	9.97
ZZZZZZ	129322	3.20	648769	4.46	605277	9.97
ZZZZZZ	130607	3.20	657333	4.46	618632	9.97
ZZZZZZ	127305	3.21	641300	4.46	595091	9.97
ZZZZZZ	132250	3.20	664281	4.46	620218	9.97
ZZZZZZ	131975	3.21	668505	4.46	623685	9.97
ZZZZZZ	127594	3.21	644592	4.46	596854	9.97
ZZZZZZ	133020	3.20	677172	4.46	625775	9.97
V7W624-SCC	133491	3.19	659279	4.45	611978	9.97
V7W624-SCC	139794	3.19	685797	4.45	636271	9.97
V7W624-SCC	138603	3.19	685964	4.45	631471	9.96

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W647-CC577	**Injection Date:**	11/12/25
Lab File ID:	7W18504.D	**Injection Time:**	11:33
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	121060	3.19	559042	4.45	540854	9.97
Upper Limit [a]	169484	3.52	782659	4.78	757196	10.30
Lower Limit [b]	72636	2.86	335425	4.12	324512	9.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W647-BS	123667	3.19	570449	4.45	553940	9.97
V7W647-BSD	125671	3.19	576768	4.45	560447	9.96
V7W647-MB	134794	3.19	620388	4.45	608317	9.96
V7W647-SCC	136633	3.21	634514	4.46	610228	9.97
V7W647-SCC	133702	3.20	622922	4.46	608618	9.97
V7W647-SCC	131767	3.21	620894	4.46	602633	9.97
V7W647-SCC	131469	3.20	610626	4.46	594612	9.97
V7W647-SCC	133601	3.20	614320	4.46	599708	9.97
V7W647-SCC	132773	3.20	616822	4.46	598710	9.97
ZZZZZZ	120989	3.21	568603	4.46	562513	9.97
ZZZZZZ	115893	3.21	546901	4.46	539701	9.97
JE22625-1	115380	3.21	540138	4.46	535711	9.97
JE22625-1DUP	112886	3.21	528369	4.46	518296	9.97
ZZZZZZ	111315	3.21	522531	4.46	510888	9.97
ZZZZZZ	112551	3.21	530420	4.46	525339	9.97
ZZZZZZ	113740	3.21	532518	4.46	520586	9.97
ZZZZZZ	111703	3.21	523173	4.46	514782	9.97
ZZZZZZ	110652	3.21	522981	4.46	518280	9.97
ZZZZZZ	110614	3.21	512066	4.46	508227	9.97
ZZZZZZ	111634	3.20	521595	4.46	511286	9.97
ZZZZZZ	116159	3.21	544117	4.46	533090	9.97
ZZZZZZ	109074	3.21	514647	4.46	509024	9.97
ZZZZZZ	111429	3.20	525993	4.46	524355	9.97
ZZZZZZ	108120	3.20	512055	4.46	508836	9.97
ZZZZZZ	110887	3.21	518078	4.46	512820	9.97
ZZZZZZ	107430	3.21	504072	4.46	501815	9.97
ZZZZZZ	108281	3.21	505035	4.46	499908	9.97
ZZZZZZ	109545	3.20	508292	4.46	515085	9.97
ZZZZZZ	110344	3.20	502346	4.46	506108	9.97
ZZZZZZ	116911	3.20	535614	4.46	538134	9.97

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W647-CC577	**Injection Date:**	11/12/25
Lab File ID:	7W18504.D	**Injection Time:**	11:33
Instrument ID:	GCMS7W	**Method:**	TO-15

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W655-CC577	**Injection Date:**	11/24/25
Lab File ID:	7W18765.D	**Injection Time:**	09:52
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	121736	3.19	577477	4.45	541499	9.96
Upper Limit [a]	170430	3.52	808468	4.78	758099	10.29
Lower Limit [b]	73042	2.86	346486	4.12	324899	9.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W655-BS	127067	3.19	594082	4.45	555791	9.97
V7W655-BSD	130042	3.19	617828	4.45	553873	9.97
V7W655-MB	138916	3.19	676090	4.44	624942	9.96
JE23787-3	125572	3.20	614266	4.46	575048	9.97
JE23787-3DUP	115035	3.20	554330	4.46	518508	9.97
ZZZZZZ	120256	3.19	584824	4.45	543246	9.96
ZZZZZZ	124089	3.19	595770	4.44	555318	9.96
ZZZZZZ	113129	3.19	539200	4.45	506745	9.96
ZZZZZZ	117952	3.19	567591	4.45	499644	9.96
JE23789-2	116415	3.19	572502	4.45	539294	9.96
JE23789-4	117290	3.19	575492	4.45	539805	9.96
ZZZZZZ	120503	3.19	590940	4.45	532129	9.96
ZZZZZZ	123167	3.19	594551	4.44	551788	9.96
ZZZZZZ	116262	3.20	569094	4.46	530523	9.97
ZZZZZZ	112557	3.20	538439	4.46	504815	9.97
ZZZZZZ	116781	3.20	562065	4.46	525366	9.97
ZZZZZZ	113638	3.20	541141	4.46	509601	9.97
ZZZZZZ	113525	3.20	554247	4.46	495581	9.97
ZZZZZZ	112302	3.20	536415	4.46	531480	9.97
ZZZZZZ	116126	3.20	558979	4.46	503510	9.97
ZZZZZZ	117060	3.20	569058	4.46	505414	9.97
ZZZZZZ	108921	3.19	519858	4.45	488687	9.96
JE23789-2	106903	3.19	504722	4.44	474323	9.96

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Check Std:	V7W656-CC577	**Injection Date:**	11/25/25
Lab File ID:	7W18798.D	**Injection Time:**	10:39
Instrument ID:	GCMS7W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	114749	3.19	530752	4.45	489106	9.96
Upper Limit [a]	160649	3.52	743053	4.78	684748	10.29
Lower Limit [b]	68849	2.86	318451	4.12	293464	9.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W656-BS	120606	3.19	573425	4.44	520859	9.96
V7W656-BSD	122225	3.19	576600	4.45	526129	9.96
V7W656-MB	134761	3.19	623275	4.44	569543	9.96
JE24006-1	115750	3.19	563992	4.45	529037	9.96
JE24006-1DUP	117089	3.19	568232	4.45	510968	9.96
JE23789-2	118252	3.20	558249	4.46	527737	9.97
JE23789-4	119828	3.20	573748	4.46	533917	9.97
ZZZZZZ	114479	3.21	547893	4.46	516808	9.97
ZZZZZZ	114682	3.20	566071	4.46	523476	9.97
ZZZZZZ	121191	3.20	578084	4.46	536705	9.97
ZZZZZZ	104440	3.21	507060	4.46	474830	9.97
ZZZZZZ	103357	3.21	499053	4.46	471815	9.97
ZZZZZZ	105087	3.20	505043	4.46	474628	9.97
ZZZZZZ	105366	3.21	508179	4.46	475656	9.97
ZZZZZZ	101784	3.21	488436	4.46	459999	9.97

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.35	0.644	ok	0.638	0.578-0.698
Acrolein	4.62	7.35	0.629	ok	0.623	0.563-0.683
Acrylonitrile	5.11	7.35	0.695	ok	0.688	0.628-0.748
Acetonitrile	4.53	7.35	0.616	ok	0.611	0.551-0.671
1,3-Butadiene	3.93	7.35	0.535	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.40	13.53	1.138	ok	1.136	1.076-1.196
Bromodichloromethane	9.87	9.21	1.072	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.62	13.53	1.228	ok	1.225	1.165-1.285
n-Butylbenzene	17.33	13.53	1.281	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.45	13.53	1.216	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.49	7.35	1.019	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.54	7.35	0.754	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.10	9.21	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.44	7.35	0.876	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.45	13.53	0.920	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.80	9.21	1.281	ok	1.277	1.217-1.337
1,4-Dioxane	10.05	9.21	1.091	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.30	7.35	0.585	ok	0.583	0.523-0.643
Dibromochloromethane	12.18	13.53	0.900	ok	0.898	0.838-0.958
Dibromomethane	9.65	9.21	1.048	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.79	9.21	1.172	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.62	13.53	1.228	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.01	13.53	1.257	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.68	13.53	1.233	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.36	9.21	1.233	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.46	7.35	1.015	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.35	7.35	0.592	ok	0.589	0.529-0.649
Ethylbenzene	14.03	13.53	1.037	ok	1.034	0.974-1.094
Ethyl Acetate	7.21	7.35	0.981	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.25	13.53	0.905	ok	0.891	0.831-0.951
4-Ethyltoluene	16.00	13.53	1.183	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.38	7.35	0.460	ok	0.458	0.398-0.518
Freon 123	4.61	7.35	0.627	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.46	7.35	0.471	ok	0.468	0.408-0.528
Heptane	10.21	9.21	1.109	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.32	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.94	7.35	0.672	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.89	13.53	1.248	ok	1.246	1.186-1.306
Methyl Acrylate	7.40	7.35	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl Tert Butyl Ether	6.56	7.35	0.893	ok	0.884	0.824-0.944
alpha-Methylstyrene	16.25	13.53	1.201	ok	1.197	1.137-1.257
Naphthalene	18.73	13.53	1.384	ok	1.380	1.320-1.440
Nonane	14.94	13.53	1.104	ok	1.103	1.043-1.163
Octane	12.77	13.53	0.944	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.86	13.53	1.172	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.70	13.53	1.086	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.71	13.53	1.087	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.48	9.21	1.246	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.92	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.87	13.53	1.247	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.47	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.07	13.53	1.188	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Toluene	11.76	9.21	1.277	ok	1.273	1.213-1.333
Trichloroethylene	9.91	9.21	1.076	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.22	13.53	1.051	ok	1.048	0.988-1.108
o-Xylene	14.71	13.53	1.087	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.10	13.53	0.377	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	470818	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2113713	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1047801	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.09	7.35	0.693	ok	0.688	0.628-0.748
Acetonitrile	4.52	7.35	0.615	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.87	9.21	0.963	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.27	13.53	1.055	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.60	13.53	1.227	ok	1.225	1.165-1.285
n-Butylbenzene	17.29	13.53	1.278	ok	1.276	1.216-1.336
sec-Butylbenzene	16.71	13.53	1.235	ok	1.234	1.174-1.294
tert-Butylbenzene	16.44	13.53	1.215	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.80	13.53	1.168	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.43	13.53	0.919	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.79	9.21	1.280	ok	1.277	1.217-1.337
1,4-Dioxane	10.03	9.21	1.089	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.17	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.78	9.21	1.170	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.60	13.53	1.227	ok	1.226	1.166-1.286
o-Dichlorobenzene	17.00	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.67	13.53	1.232	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.33	9.21	1.230	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.45	7.35	1.014	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.36	9.21	1.016	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.02	13.53	1.036	ok	1.034	0.974-1.094
Ethyl Acetate	7.54	7.35	1.026	ok	1.010	0.950-1.070
Ethyl Methacrylate	12.12	13.53	0.896	ok	0.891	0.831-0.951
4-Ethyltoluene	15.98	13.53	1.181	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.20	9.21	1.107	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.51	7.35	1.022	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.92	7.35	0.941	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.96	9.21	1.190	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.55	7.35	0.891	ok	0.884	0.824-0.944
Methylmethacrylate	10.22	9.21	1.110	ok	1.100	1.040-1.160
alpha-Methylstyrene	16.23	13.53	1.200	ok	1.197	1.137-1.257
Naphthalene	18.70	13.53	1.382	ok	1.380	1.320-1.440

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.76	13.53	0.943	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.85	13.53	1.171	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.62	13.53	1.081	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.91	13.53	1.398	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.85	13.53	1.098	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.46	13.53	1.217	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.48	7.35	0.746	ok	0.736	0.676-0.796
Tetrachloroethylene	12.89	13.53	0.953	ok	0.951	0.891-1.011
Tetrahydrofuran	7.97	7.35	1.084	ok	1.072	1.012-1.132
Toluene	11.75	9.21	1.276	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
m,p-Xylene	14.20	13.53	1.050	ok	1.048	0.988-1.108
o-Xylene	14.70	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	483296	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2143191	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1063437	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.72	7.35	0.642	ok	0.638	0.578-0.698
Acrolein	4.60	7.35	0.626	ok	0.623	0.563-0.683
Acrylonitrile	5.08	7.35	0.691	ok	0.688	0.628-0.748
Acetonitrile	4.51	7.35	0.614	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.26	13.53	1.054	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.59	13.53	1.226	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.68	7.35	0.773	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.35	1.224	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.35	0.875	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.41	13.53	0.917	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.19	7.35	1.114	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.67	9.21	1.050	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.78	9.21	1.279	ok	1.277	1.217-1.337
1,4-Dioxane	10.00	9.21	1.086	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.25	7.35	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.35	0.981	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.77	9.21	1.169	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.99	13.53	1.256	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.31	9.21	1.228	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.44	7.35	1.012	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.35	1.120	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	14.00	13.53	1.035	ok	1.034	0.974-1.094
Ethyl Acetate	7.50	7.35	1.020	ok	1.010	0.950-1.070
Ethyl Acrylate	9.80	9.21	1.064	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.08	13.53	0.893	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.65	7.35	0.769	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.17	13.53	0.899	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.53	1.132	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.93	7.35	0.671	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.53	1.247	ok	1.246	1.186-1.306
Methyl Acrylate	7.49	7.35	1.019	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.35	0.739	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.90	7.35	0.939	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.89	9.21	1.182	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.54	7.35	0.890	ok	0.884	0.824-0.944
Methylmethacrylate	10.17	9.21	1.104	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.22	13.53	1.199	ok	1.197	1.137-1.257
Naphthalene	18.68	13.53	1.381	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.83	13.53	1.170	ok	1.169	1.109-1.229
Propylene	3.51	7.35	0.478	ok	0.476	0.416-0.536
Styrene	14.60	13.53	1.079	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.53	1.004	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.70	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.47	9.21	1.245	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.90	13.53	1.397	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.84	13.53	1.097	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.53	1.246	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.53	1.216	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.21	1.077	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.46	7.35	0.743	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.95	7.35	1.082	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.90	9.21	1.075	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.62	7.35	0.901	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.53	1.049	ok	1.048	0.988-1.108
o-Xylene	14.69	13.53	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.08	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	467597	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2126307	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1045384	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.71	7.35	0.641	ok	0.638	0.578-0.698
Acrolein	4.59	7.35	0.624	ok	0.623	0.563-0.683
Acrylonitrile	5.06	7.35	0.688	ok	0.688	0.628-0.748
Acetonitrile	4.50	7.35	0.612	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.86	9.21	0.962	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.53	1.137	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.53	1.053	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.53	1.225	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.53	1.276	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.53	1.234	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.53	1.214	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.53	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.35	0.476	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.78	13.53	1.166	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.53	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.35	1.113	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.21	1.049	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.77	9.21	1.278	ok	1.277	1.217-1.337
1,4-Dioxane	9.97	9.21	1.083	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.53	0.899	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.21	1.168	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.53	1.226	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.53	1.255	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.53	1.231	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.30	9.21	1.227	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.42	7.35	1.010	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.34	7.35	0.590	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.53	1.034	ok	1.034	0.974-1.094
Ethyl Acetate	7.47	7.35	1.016	ok	1.010	0.950-1.070
Ethyl Acrylate	9.74	9.21	1.058	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.05	13.53	0.891	ok	0.891	0.831-0.951
4-Ethyltoluene	15.97	13.53	1.180	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.53	1.402	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.53	1.302	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.08	13.53	0.893	ok	0.889	0.829-0.949
Iodomethane	5.25	7.35	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.53	1.131	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.91	7.35	0.668	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.53	1.246	ok	1.246	1.186-1.306
Methyl Acrylate	7.45	7.35	1.014	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.86	7.35	0.933	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.85	9.21	1.178	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.52	7.35	0.887	ok	0.884	0.824-0.944
Methylmethacrylate	10.14	9.21	1.101	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.21	13.53	1.198	ok	1.197	1.137-1.257
Naphthalene	18.67	13.53	1.380	ok	1.380	1.320-1.440
Nonane	14.93	13.53	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.53	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.53	1.169	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.59	13.53	1.078	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.53	1.003	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.53	1.086	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.46	9.21	1.244	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.53	1.396	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.83	13.53	1.096	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.53	1.245	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.53	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.53	1.186	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.44	7.35	0.740	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.53	0.952	ok	0.951	0.891-1.011
Tetrahydrofuran	7.92	7.35	1.078	ok	1.072	1.012-1.132
Toluene	11.73	9.21	1.274	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.60	7.35	0.898	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.53	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.53	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.53	0.375	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	472964	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2121089	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.53	ok	13.54	13.21-13.87	1052969	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.68	7.35	0.637	ok	0.638	0.578-0.698
Acrolein	4.58	7.35	0.623	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.35	0.687	ok	0.688	0.628-0.748
Acetonitrile	4.49	7.35	0.611	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.35	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.49	7.35	0.611	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.35	0.576	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.35	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.91	9.21	1.076	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.35	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.35	0.980	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.43	7.35	1.011	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.21	1.052	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.60	7.35	0.626	ok	0.625	0.565-0.685
Freon 123A	4.64	7.35	0.631	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.45	7.35	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.02	13.54	0.888	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.35	0.664	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.80	9.21	1.173	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.49	7.35	0.883	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	Reporting this level
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.08	7.35	0.691	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.87	7.35	1.071	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.35	0.653	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.35	0.894	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	462457	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2061895	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1060612	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.35	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.35	0.622	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.35	0.686	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.35	0.610	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.35	0.532	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.85	9.21	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.35	0.559	ok	0.559	0.499-0.619
Bromoethene	4.48	7.35	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.35	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.35	0.771	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.35	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.35	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.35	0.478	ok	0.477	0.417-0.537
Chloroform	7.48	7.35	1.018	ok	1.017	0.957-1.077
Chloromethane	3.67	7.35	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.35	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	8.99	7.35	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.35	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.35	0.724	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.17	7.35	1.112	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.90	9.21	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.35	0.483	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.35	0.584	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.63	9.21	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.35	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.19	7.35	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.35	1.005	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.35	1.118	ok	1.118	1.058-1.178
Ethanol	4.32	7.35	0.588	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.35	1.010	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.35	0.767	ok	0.767	0.707-0.827
Freon 114	3.73	7.35	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.35	0.459	ok	0.458	0.398-0.518
Freon 123	4.59	7.35	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.35	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.35	0.497	ok	0.496	0.436-0.556
Freon 152A	3.44	7.35	0.468	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.35	1.004	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.54	0.887	ok	0.889	0.829-0.949
Iodomethane	5.26	7.35	0.716	ok	0.715	0.655-0.775
Isopropylbenzene	15.29	13.54	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.35	0.663	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.85	13.54	1.244	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.35	1.008	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.35	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.80	7.35	0.925	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.48	7.35	0.882	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.66	13.54	1.378	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.35	0.690	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.35	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.35	1.144	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.56	13.54	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.38	7.35	0.732	ok	0.736	0.676-0.796
Tetrachloroethylene	12.87	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.86	7.35	1.069	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.35	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.35	0.520	ok	0.519	0.459-0.579
Vinyl Acetate	6.56	7.35	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.18	13.54	1.047	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.35	ok	7.36	7.03-7.69	458592	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	2019630	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1088548	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.92	7.36	0.533	ok	0.532	0.472-0.592
Benzene	8.85	9.21	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.37	13.54	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.21	1.071	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.49	7.36	0.610	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.58	13.54	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.21	0.989	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.21	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.75	9.21	1.276	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.21	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.56	7.36	0.484	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.15	13.54	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.21	1.047	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.75	9.21	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.58	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.21	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.21	1.015	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.21	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.02	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.60	7.36	0.625	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.45	7.36	0.469	ok	0.468	0.408-0.528
Heptane	10.19	9.21	1.106	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.21	1.172	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.21	1.098	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.19	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.93	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.74	13.54	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.82	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.68	13.54	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.21	1.243	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.44	13.54	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.91	9.21	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.85	7.36	1.067	ok	1.072	1.012-1.132
Toluene	11.72	9.21	1.273	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.21	1.074	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.36	0.652	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	450013	ok	465911	279547-652275
1,4-Difluorobenzene	9.21	ok	9.21	8.88-9.54	1932450	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1113631	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.57	7.36	0.621	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.54	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.25	13.54	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.36	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.95	7.36	0.537	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.54	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.54	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.54	1.233	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.54	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.54	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.23	7.36	0.575	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.36	0.477	ok	0.477	0.417-0.537
Chloroform	7.48	7.36	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.36	0.499	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.36	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.54	1.165	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.54	0.916	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.65	9.22	1.047	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.54	0.898	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.54	1.225	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.54	1.254	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.54	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.28	9.22	1.223	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.54	1.033	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.54	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.54	1.179	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.54	1.401	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.54	1.301	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.00	13.54	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.36	0.715	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.54	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.86	13.54	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.54	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.54	1.379	ok	1.380	1.320-1.440
Nonane	14.94	13.54	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.54	0.942	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.54	1.168	ok	1.169	1.109-1.229
Propylene	3.50	7.36	0.476	ok	0.476	0.416-0.536
Styrene	14.57	13.54	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.54	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.54	1.085	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.54	1.395	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.54	1.095	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.54	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.54	1.215	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.54	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.54	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.36	0.519	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.54	1.048	ok	1.048	0.988-1.108
o-Xylene	14.68	13.54	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.54	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	458599	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1942721	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.54	ok	13.54	13.21-13.87	1247352	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.36	0.635	ok	0.638	0.578-0.698
Acrolein	4.56	7.36	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.04	7.36	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.36	0.609	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.36	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.38	13.55	1.135	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.10	7.36	0.557	ok	0.559	0.499-0.619
Bromoethene	4.48	7.36	0.609	ok	0.610	0.550-0.670
n-Butane	3.94	7.36	0.535	ok	0.537	0.477-0.597
Benzyl Chloride	16.57	13.55	1.223	ok	1.225	1.165-1.285
n-Butylbenzene	17.26	13.55	1.274	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.36	0.770	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.36	0.473	ok	0.473	0.413-0.533
Chloroethane	4.22	7.36	0.573	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.50	7.36	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.36	1.018	ok	1.017	0.957-1.077
Chloromethane	3.66	7.36	0.497	ok	0.499	0.439-0.559
3-Chloropropene	5.52	7.36	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.36	1.223	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.42	7.36	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.36	0.723	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.36	1.111	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.36	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.36	0.583	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.36	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.20	7.36	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.65	13.55	1.229	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.36	1.004	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.22	7.36	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.36	0.587	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.36	1.008	ok	1.010	0.950-1.070
Ethyl Acrylate	9.68	9.22	1.050	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.36	0.766	ok	0.767	0.707-0.827
Freon 114	3.73	7.36	0.507	ok	0.507	0.447-0.567
Freon 115	3.37	7.36	0.458	ok	0.458	0.398-0.518
Freon 123	4.59	7.36	0.624	ok	0.625	0.565-0.685
Freon 123A	4.63	7.36	0.629	ok	0.630	0.570-0.690
Freon 142B	3.65	7.36	0.496	ok	0.496	0.436-0.556
Freon 152A	3.44	7.36	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.36	1.003	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.25	7.36	0.713	ok	0.715	0.655-0.775
Isopropylbenzene	15.30	13.55	1.129	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.87	7.36	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.36	1.007	ok	1.010	0.950-1.070
Methylene chloride	5.42	7.36	0.736	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.36	0.923	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.36	0.879	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	Reporting this level
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.36	0.689	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.49	7.36	0.474	ok	0.476	0.416-0.536
Styrene	14.57	13.55	1.075	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.36	1.143	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.57	13.55	1.001	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.85	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.04	13.55	1.184	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.36	0.730	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.36	1.065	ok	1.072	1.012-1.132
Toluene	11.72	9.22	1.271	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.79	7.36	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.81	7.36	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.36	0.893	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.36	7.03-7.69	467162	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1929313	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1280918	ok	1134689	680813-1588565

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.67	7.37	0.634	ok	0.638	0.578-0.698
Acrolein	4.57	7.37	0.620	ok	0.623	0.563-0.683
Acrylonitrile	5.05	7.37	0.685	ok	0.688	0.628-0.748
Acetonitrile	4.48	7.37	0.608	ok	0.611	0.551-0.671
1,3-Butadiene	3.91	7.37	0.531	ok	0.532	0.472-0.592
Benzene	8.86	9.22	0.961	ok	0.962	0.902-1.022
Bromobenzene	15.39	13.55	1.136	ok	1.136	1.076-1.196
Bromodichloromethane	9.86	9.22	1.069	ok	1.070	1.010-1.130
Bromoform	14.26	13.55	1.052	ok	1.053	0.993-1.113
Bromomethane	4.11	7.37	0.558	ok	0.559	0.499-0.619
Bromoethene	4.48	7.37	0.608	ok	0.610	0.550-0.670
n-Butane	3.95	7.37	0.536	ok	0.537	0.477-0.597
Benzyl Chloride	16.58	13.55	1.224	ok	1.225	1.165-1.285
n-Butylbenzene	17.27	13.55	1.275	ok	1.276	1.216-1.336
sec-Butylbenzene	16.70	13.55	1.232	ok	1.234	1.174-1.294
tert-Butylbenzene	16.43	13.55	1.213	ok	1.214	1.154-1.274
Carbon disulfide	5.67	7.37	0.769	ok	0.771	0.711-0.831
Chlorobenzene	13.59	13.55	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.48	7.37	0.472	ok	0.473	0.413-0.533
Chloroethane	4.23	7.37	0.574	ok	0.575	0.515-0.635
Chlorotrifluoroethene	3.51	7.37	0.476	ok	0.477	0.417-0.537
Chloroform	7.49	7.37	1.016	ok	1.017	0.957-1.077
Chloromethane	3.67	7.37	0.498	ok	0.499	0.439-0.559
3-Chloropropene	5.53	7.37	0.750	ok	0.752	0.692-0.812
2-Chlorotoluene	15.77	13.55	1.164	ok	1.165	1.105-1.225
Carbon tetrachloride	9.00	7.37	1.221	ok	1.223	1.163-1.283
Cyclohexane	9.11	9.22	0.988	ok	0.989	0.929-1.049
1,1-Dichloroethane	6.43	7.37	0.872	ok	0.874	0.814-0.934
1,1-Dichloroethylene	5.32	7.37	0.722	ok	0.723	0.663-0.783
1,2-Dibromoethane (EDB)	12.40	13.55	0.915	ok	0.917	0.857-0.977
1,2-Dichloroethane	8.18	7.37	1.110	ok	1.112	1.052-1.172
1,2-Dichloropropane	9.66	9.22	1.048	ok	1.048	0.988-1.108
1,3-Dichloropropane	11.76	9.22	1.275	ok	1.277	1.217-1.337
1,4-Dioxane	9.89	9.22	1.073	ok	1.079	1.019-1.139
Dichlorodifluoromethane	3.55	7.37	0.482	ok	0.483	0.423-0.543
Dichlorofluoromethane	4.29	7.37	0.582	ok	0.583	0.523-0.643
Dibromochloromethane	12.16	13.55	0.897	ok	0.898	0.838-0.958
Dibromomethane	9.64	9.22	1.046	ok	1.046	0.986-1.106

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2292-IC2292	5W59769.D	11/06/25 22:35	BK	0.04	GCMS5W	TO-15	
V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	6.24	7.37	0.847	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	7.21	7.37	0.978	ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.76	9.22	1.167	ok	1.168	1.108-1.228
m-Dichlorobenzene	16.59	13.55	1.224	ok	1.226	1.166-1.286
o-Dichlorobenzene	16.98	13.55	1.253	ok	1.255	1.195-1.315
p-Dichlorobenzene	16.66	13.55	1.230	ok	1.230	1.170-1.290
trans-1,3-Dichloropropene	11.29	9.22	1.225	ok	1.227	1.167-1.287
Di-Isopropyl ether	7.39	7.37	1.003	ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.35	9.22	1.014	ok	1.015	0.955-1.075
2,4-Dimethylpentane	8.23	7.37	1.117	ok	1.118	1.058-1.178
Ethanol	4.32	7.37	0.586	ok	0.589	0.529-0.649
Ethylbenzene	13.99	13.55	1.032	ok	1.034	0.974-1.094
Ethyl Acetate	7.42	7.37	1.007	ok	1.010	0.950-1.070
Ethyl Acrylate	9.69	9.22	1.051	ok	1.053	0.993-1.113
Ethyl Methacrylate	12.03	13.55	0.888	ok	0.891	0.831-0.951
4-Ethyltoluene	15.96	13.55	1.178	ok	1.179	1.119-1.239
Freon 113	5.64	7.37	0.765	ok	0.767	0.707-0.827
Freon 114	3.73	7.37	0.506	ok	0.507	0.447-0.567
Freon 115	3.37	7.37	0.457	ok	0.458	0.398-0.518
Freon 123	4.60	7.37	0.624	ok	0.625	0.565-0.685
Freon 123A	4.64	7.37	0.630	ok	0.630	0.570-0.690
Freon 142B	3.65	7.37	0.495	ok	0.496	0.436-0.556
Freon 152A	3.44	7.37	0.467	ok	0.468	0.408-0.528
Heptane	10.19	9.22	1.105	ok	1.106	1.046-1.166
Hexachlorobutadiene	18.97	13.55	1.400	ok	1.401	1.341-1.461
Hexachloroethane	17.61	13.55	1.300	ok	1.301	1.241-1.361
Hexane	7.38	7.37	1.001	ok	1.003	0.943-1.063
2-Hexanone	12.01	13.55	0.886	ok	0.889	0.829-0.949
Iodomethane	5.26	7.37	0.714	ok	0.715	0.655-0.775
Isopropylbenzene	15.31	13.55	1.130	ok	1.130	1.070-1.190
Isopropyl Alcohol	4.88	7.37	0.662	ok	0.666	0.606-0.726
p-Isopropyltoluene	16.87	13.55	1.245	ok	1.246	1.186-1.306
Methyl Acrylate	7.41	7.37	1.005	ok	1.010	0.950-1.070
Methylene chloride	5.43	7.37	0.737	ok	0.737	0.677-0.797
Methyl ethyl ketone	6.79	7.37	0.921	ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.79	9.22	1.170	ok	1.175	1.115-1.235
Methyl Tert Butyl Ether	6.47	7.37	0.878	ok	0.884	0.824-0.944
Methylmethacrylate	10.11	9.22	1.097	ok	1.100	1.040-1.160

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V5W2292-IC2292	5W59770.D	11/06/25 23:11	BK	0.1	GCMS5W	TO-15	
V5W2292-IC2292	5W59771.D	11/06/25 23:50	BK	0.2	GCMS5W	TO-15	
V5W2292-IC2292	5W59777.D	11/07/25 03:41	BK	0.5	GCMS5W	TO-15	
V5W2292-IC2292	5W59782.D	11/07/25 06:57	BK	5	GCMS5W	TO-15	
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	BK	10	GCMS5W	TO-15	
V5W2292-IC2292	5W59784.D	11/07/25 08:12	BK	20	GCMS5W	TO-15	
V5W2292-IC2292	5W59785.D	11/07/25 08:54	BK	40	GCMS5W	TO-15	
V5W2292-IC2292	5W59786.D	11/07/25 09:38	BK	50	GCMS5W	TO-15	
V5W2292-IC2292	5W59787.D	11/07/25 10:24	BK	60	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.20	13.55	1.196	ok	1.197	1.137-1.257
Naphthalene	18.67	13.55	1.378	ok	1.380	1.320-1.440
Nonane	14.94	13.55	1.103	ok	1.103	1.043-1.163
Octane	12.75	13.55	0.941	ok	0.942	0.882-1.002
Pentane	5.07	7.37	0.688	ok	0.690	0.630-0.750
n-Propylbenzene	15.81	13.55	1.167	ok	1.169	1.109-1.229
Propylene	3.50	7.37	0.475	ok	0.476	0.416-0.536
Styrene	14.58	13.55	1.076	ok	1.078	1.018-1.138
1,1,1-Trichloroethane	8.41	7.37	1.141	ok	1.143	1.083-1.203
1,1,1,2-Tetrachloroethane	13.58	13.55	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.69	13.55	1.084	ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.45	9.22	1.242	ok	1.244	1.184-1.304
1,2,4-Trichlorobenzene	18.89	13.55	1.394	ok	1.396	1.336-1.456
1,2,3-Trichloropropane	14.82	13.55	1.094	ok	1.095	1.035-1.155
1,2,3-Trimethylbenzene	16.86	13.55	1.244	ok	1.245	1.185-1.305
1,2,4-Trimethylbenzene	16.45	13.55	1.214	ok	1.215	1.155-1.275
1,3,5-Trimethylbenzene	16.05	13.55	1.185	ok	1.185	1.125-1.245
2,2,4-Trimethylpentane	9.92	9.22	1.076	ok	1.076	1.016-1.136
Tertiary Butyl Alcohol	5.37	7.37	0.729	ok	0.736	0.676-0.796
Tetrachloroethylene	12.88	13.55	0.951	ok	0.951	0.891-1.011
Tetrahydrofuran	7.84	7.37	1.064	ok	1.072	1.012-1.132
Toluene	11.73	9.22	1.272	ok	1.273	1.213-1.333
Trichloroethylene	9.89	9.22	1.073	ok	1.074	1.014-1.134
Trichlorofluoromethane	4.80	7.37	0.651	ok	0.652	0.592-0.712
Vinyl chloride	3.82	7.37	0.518	ok	0.519	0.459-0.579
Vinyl Acetate	6.57	7.37	0.891	ok	0.894	0.834-0.954
m,p-Xylene	14.19	13.55	1.047	ok	1.048	0.988-1.108
o-Xylene	14.69	13.55	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.07	13.55	0.374	ok	0.375	0.315-0.435

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.36	7.03-7.69	467614	ok	465911	279547-652275
1,4-Difluorobenzene	9.22	ok	9.21	8.88-9.54	1973593	ok	2036390	1221834-2850946
Chlorobenzene-D5	13.55	ok	13.54	13.21-13.87	1346242	ok	1134689	680813-1588565

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Job Number: JE23789
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Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.96	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765

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V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.92	4.45	1.106	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.73	4.45	1.737	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.07	4.45	1.364	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.96	1.346	ok	1.345	1.285-1.405
Octane	8.98	4.45	2.018	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.96	1.213	ok	1.211	1.151-1.271

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V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.96	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.78	4.45	1.524	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.33	9.96	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114117	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	582166	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	538138	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.96	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.96	1.667	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.96	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.96	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.96	1.485	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.96	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.96	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.62	9.96	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.78	9.96	1.384	ok	1.384	1.324-1.444
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.17	9.96	1.623	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.39	9.96	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.12	9.96	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.96	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.28	9.96	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.96	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.96	1.701	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.96	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.83	9.96	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.35	3.19	0.737	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.50	3.19	1.097	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.82	3.19	0.884	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.96	1.140	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	113084	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	573427	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	530262	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.96	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.96	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.59	9.96	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.96	1.745	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.96	1.688	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.96	1.657	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.96	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.96	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.34	4.45	0.975	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.09	4.45	1.144	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.96	1.664	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.96	1.706	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.96	1.674	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.96	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.26	3.19	1.022	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.96	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.96	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.96	1.763	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.72	4.45	1.735	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.96	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.96	1.708	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.06	4.45	1.362	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.80	3.19	0.878	ok	0.875	0.815-0.935
Methylmethacrylate	5.33	4.45	1.198	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.96	1.624	ok	1.623	1.563-1.683
Naphthalene	18.36	9.96	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.96	1.345	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.96	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.06	9.96	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.96	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.96	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.96	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.96	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.96	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.96	1.658	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.96	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.49	3.19	1.094	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.34	9.96	1.139	ok	1.139	1.079-1.199
o-Xylene	12.28	9.96	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.96	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114690	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	581918	ok	558776	335266-782286
Chlorobenzene-D5	9.96	ok	9.97	9.64-10.30	540272	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.64	9.97	1.368	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.15	9.97	1.118	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	7.99	4.45	1.796	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.06	4.45	1.137	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.94	3.19	0.608	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.71	4.45	1.733	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.15	3.19	0.674	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.93	3.19	0.918	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.56	9.97	1.260	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.93	9.97	1.698	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.48	3.19	1.091	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.27	9.97	1.231	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	114041	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	577981	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	540711	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.65	9.97	1.369	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.18	4.45	1.613	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.66	9.97	1.671	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.60	4.45	1.483	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.63	9.97	1.869	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	Reporting this level
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.36	9.97	1.842	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.05	9.97	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.76	4.45	1.519	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.31	9.97	1.837	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.50	9.97	1.655	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.10	4.45	1.146	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110309	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	561645	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511167	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.81	9.97	1.686	ok	1.687	1.627-1.747
tert-Butylbenzene	16.49	9.97	1.654	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.04	9.97	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.78	9.97	1.482	ok	1.484	1.424-1.544
Carbon tetrachloride	4.23	3.19	1.326	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.74	4.45	1.065	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.11	3.19	0.975	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.58	4.45	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.74	3.19	1.172	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.92	9.97	1.095	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.57	9.97	1.562	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.23	3.19	1.013	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.17	9.97	1.622	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.40	9.97	1.344	ok	1.345	1.285-1.405
Octane	8.99	4.45	2.020	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.29	9.97	1.233	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.57	9.97	1.261	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.84	9.97	1.589	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.84	4.45	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.28	9.97	1.232	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	110672	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	555876	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	511162	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.04	3.19	0.639	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	2.00	3.19	0.627	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.66	9.97	1.370	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.16	9.97	1.119	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.01	3.19	0.630	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.60	9.97	1.665	ok	1.666	1.606-1.726
n-Butylbenzene	17.38	9.97	1.743	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.91	3.19	0.599	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.00	4.45	1.798	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.19	4.45	1.616	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.65	3.19	0.517	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.66	4.45	1.721	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.57	9.97	1.662	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.83	4.45	1.760	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.72	3.19	0.539	ok	0.537	0.477-0.597
Freon 115	1.58	3.19	0.495	ok	0.495	0.435-0.555
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.61	3.19	0.505	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.56	9.97	1.761	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.69	4.45	1.728	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.79	9.97	1.383	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.01	9.97	1.706	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.37	3.19	0.743	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.07	9.97	1.211	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.30	9.97	1.234	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.58	9.97	1.262	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.13	4.45	1.602	ok	1.603	1.543-1.663
Trichloroethylene	5.01	4.45	1.126	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.35	9.97	1.138	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109480	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	545187	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	503767	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.79	3.19	0.561	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.96	4.45	1.115	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.79	9.97	1.483	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.78	4.45	1.074	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	16.99	9.97	1.704	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.93	9.97	1.096	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.90	4.45	1.101	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.04	4.45	1.357	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.37	9.97	1.843	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.13	9.97	1.518	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.06	9.97	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.32	9.97	1.838	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.51	9.97	1.656	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.85	9.97	1.590	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.33	3.19	0.730	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	109851	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	546669	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	501897	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.50	9.97	1.655	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.05	9.97	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.26	3.19	1.022	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.01	4.45	1.800	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.66	3.19	1.147	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.02	4.45	1.128	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.94	4.45	1.335	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.68	9.97	1.673	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.61	4.45	1.485	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.24	3.19	1.016	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.58	9.97	1.563	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.80	9.97	1.384	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	Reporting this level
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.41	9.97	1.345	ok	1.345	1.285-1.405
Octane	9.00	4.45	2.022	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.31	9.97	1.235	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.94	9.97	1.699	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
2,2,4-Trimethylpentane	5.11	4.45	1.148	ok	1.147	1.087-1.207
Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.85	4.45	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.46	3.19	1.085	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.36	9.97	1.139	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	105717	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531881	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	494368	ok	515873	309524-722222

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.07	3.19	0.649	ok	0.649	0.589-0.709
Acrolein	2.03	3.19	0.636	ok	0.637	0.577-0.697
Acrylonitrile	2.21	3.19	0.693	ok	0.693	0.633-0.753
Acetonitrile	1.99	3.19	0.624	ok	0.625	0.565-0.685
1,3-Butadiene	1.78	3.19	0.558	ok	0.559	0.499-0.619
Benzene	4.13	3.19	1.295	ok	1.295	1.235-1.355
Bromobenzene	13.67	9.97	1.371	ok	1.370	1.310-1.430
Bromodichloromethane	4.97	4.45	1.117	ok	1.115	1.055-1.175
Bromoform	11.17	9.97	1.120	ok	1.120	1.060-1.180
Bromomethane	1.86	3.19	0.583	ok	0.583	0.523-0.643
Bromoethene	2.00	3.19	0.627	ok	0.628	0.568-0.688
n-Butane	1.80	3.19	0.564	ok	0.564	0.504-0.624
Benzyl Chloride	16.61	9.97	1.666	ok	1.666	1.606-1.726
n-Butylbenzene	17.39	9.97	1.744	ok	1.744	1.684-1.804
sec-Butylbenzene	16.82	9.97	1.687	ok	1.687	1.627-1.747
tert-Butylbenzene	16.51	9.97	1.656	ok	1.655	1.595-1.715
Carbon disulfide	2.46	3.19	0.771	ok	0.771	0.711-0.831
Chlorobenzene	10.06	9.97	1.009	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.62	3.19	0.508	ok	0.508	0.448-0.568
Chloroethane	1.90	3.19	0.596	ok	0.597	0.537-0.657
Chlorotrifluoroethene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Chloroform	3.27	3.19	1.025	ok	1.022	0.962-1.082
Chloromethane	1.69	3.19	0.530	ok	0.530	0.470-0.590
3-Chloropropene	2.41	3.19	0.755	ok	0.755	0.695-0.815
2-Chlorotoluene	14.80	9.97	1.484	ok	1.484	1.424-1.544
Carbon tetrachloride	4.24	3.19	1.329	ok	1.328	1.268-1.388
Cyclohexane	4.33	4.45	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.76	3.19	0.865	ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.33	3.19	0.730	ok	0.730	0.670-0.790
1,2-Dibromoethane (EDB)	8.02	4.45	1.802	ok	1.798	1.738-1.858
1,2-Dichloroethane	3.67	3.19	1.150	ok	1.148	1.088-1.208
1,2-Dichloropropane	4.79	4.45	1.076	ok	1.075	1.015-1.135
1,3-Dichloropropane	7.20	4.45	1.618	ok	1.616	1.556-1.676
1,4-Dioxane	5.03	4.45	1.130	ok	1.132	1.072-1.192
Dichlorodifluoromethane	1.64	3.19	0.514	ok	0.515	0.455-0.575
Dichlorofluoromethane	1.93	3.19	0.605	ok	0.605	0.545-0.665
Dibromochloromethane	7.67	4.45	1.724	ok	1.722	1.662-1.782
Dibromomethane	4.75	4.45	1.067	ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,2-Dichloroethylene	2.69	3.19	0.843	ok	0.843	0.783-0.903
cis-1,2-Dichloroethylene	3.12	3.19	0.978	ok	0.977	0.917-1.037
cis-1,3-Dichloropropene	5.95	4.45	1.337	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.58	9.97	1.663	ok	1.663	1.603-1.723
o-Dichlorobenzene	17.00	9.97	1.705	ok	1.705	1.645-1.765
p-Dichlorobenzene	16.67	9.97	1.672	ok	1.672	1.612-1.732
trans-1,3-Dichloropropene	6.62	4.45	1.488	ok	1.485	1.425-1.545
Di-Isopropyl ether	3.25	3.19	1.019	ok	1.017	0.957-1.077
2,3-Dimethylpentane	4.59	4.45	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	3.75	3.19	1.176	ok	1.174	1.114-1.234
Ethanol	1.93	3.19	0.605	ok	0.605	0.545-0.665
Ethylbenzene	10.94	9.97	1.097	ok	1.096	1.036-1.156
Ethyl Acetate	3.25	3.19	1.019	ok	1.019	0.959-1.079
Ethyl Acrylate	4.91	4.45	1.103	ok	1.102	1.042-1.162
Ethyl Methacrylate	7.84	4.45	1.762	ok	1.761	1.701-1.821
4-Ethyltoluene	15.59	9.97	1.564	ok	1.563	1.503-1.623
Freon 113	2.46	3.19	0.771	ok	0.771	0.711-0.831
Freon 114	1.71	3.19	0.536	ok	0.537	0.477-0.597
Freon 123	2.05	3.19	0.643	ok	0.643	0.583-0.703
Freon 123A	2.06	3.19	0.646	ok	0.646	0.586-0.706
Freon 142B	1.68	3.19	0.527	ok	0.527	0.467-0.587
Freon 152A	1.60	3.19	0.502	ok	0.503	0.443-0.563
Heptane	5.42	4.45	1.218	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.64	9.97	1.870	ok	1.869	1.809-1.929
Hexachloroethane	17.57	9.97	1.762	ok	1.762	1.702-1.822
Hexane	3.24	3.19	1.016	ok	1.016	0.956-1.076
2-Hexanone	7.70	4.45	1.730	ok	1.731	1.671-1.791
Iodomethane	2.30	3.19	0.721	ok	0.721	0.661-0.781
Isopropylbenzene	13.81	9.97	1.385	ok	1.384	1.324-1.444
Isopropyl Alcohol	2.14	3.19	0.671	ok	0.672	0.612-0.732
p-Isopropyltoluene	17.02	9.97	1.707	ok	1.707	1.647-1.767
Methyl Acrylate	3.24	3.19	1.016	ok	1.015	0.955-1.075
Methylene chloride	2.36	3.19	0.740	ok	0.740	0.680-0.800
Methyl ethyl ketone	2.92	3.19	0.915	ok	0.917	0.857-0.977
Methyl Isobutyl Ketone	6.05	4.45	1.360	ok	1.360	1.300-1.420
Methyl Tert Butyl Ether	2.79	3.19	0.875	ok	0.875	0.815-0.935
Methylmethacrylate	5.32	4.45	1.196	ok	1.196	1.136-1.256
alpha-Methylstyrene	16.18	9.97	1.623	ok	1.623	1.563-1.683

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W577-IC577	7W16576.D	08/07/25 04:00	BK	0.04	GCMS7W	TO-15	
V7W577-IC577	7W16577.D	08/07/25 04:38	BK	0.1	GCMS7W	TO-15	
V7W577-IC577	7W16583.D	08/07/25 08:36	BK	0.2	GCMS7W	TO-15	
V7W577-IC577	7W16584.D	08/07/25 09:13	BK	0.5	GCMS7W	TO-15	
V7W577-IC577	7W16589.D	08/07/25 12:29	BK	5	GCMS7W	TO-15	
V7W577-ICC577	7W16590.D	08/07/25 13:07	BK	10	GCMS7W	TO-15	
V7W577-IC577	7W16591.D	08/07/25 13:47	BK	20	GCMS7W	TO-15	
V7W577-IC577	7W16592.D	08/07/25 14:30	BK	40	GCMS7W	TO-15	
V7W577-IC577	7W16593.D	08/07/25 15:15	BK	50	GCMS7W	TO-15	
V7W577-IC577	7W16594.D	08/07/25 16:02	BK	60	GCMS7W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.38	9.97	1.844	ok	1.843	1.783-1.903
Nonane	13.42	9.97	1.346	ok	1.345	1.285-1.405
Octane	9.01	4.45	2.025	ok	2.022	1.962-2.082
Pentane	2.24	3.19	0.702	ok	0.702	0.642-0.762
n-Propylbenzene	15.14	9.97	1.519	ok	1.518	1.458-1.578
Propylene	1.63	3.19	0.511	ok	0.511	0.451-0.571
Styrene	12.08	9.97	1.212	ok	1.211	1.151-1.271
1,1,1-Trichloroethane	3.82	3.19	1.197	ok	1.197	1.137-1.257
1,1,1,2-Tetrachloroethane	10.07	9.97	1.010	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.32	9.97	1.236	ok	1.234	1.174-1.294
1,1,2-Trichloroethane	6.77	4.45	1.521	ok	1.521	1.461-1.581
1,2,4-Trichlorobenzene	18.33	9.97	1.839	ok	1.838	1.778-1.898
1,2,3-Trichloropropane	12.59	9.97	1.263	ok	1.262	1.202-1.322
1,2,3-Trimethylbenzene	16.95	9.97	1.700	ok	1.699	1.639-1.759
1,2,4-Trimethylbenzene	16.52	9.97	1.657	ok	1.656	1.596-1.716
1,3,5-Trimethylbenzene	15.86	9.97	1.591	ok	1.590	1.530-1.650
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Tertiary Butyl Alcohol	2.34	3.19	0.734	ok	0.734	0.674-0.794
Tetrachloroethylene	8.86	4.45	1.991	ok	1.989	1.929-2.049
Tetrahydrofuran	3.47	3.19	1.088	ok	1.090	1.030-1.150
Toluene	7.14	4.45	1.604	ok	1.603	1.543-1.663
Trichloroethylene	5.02	4.45	1.128	ok	1.127	1.067-1.187
Trichlorofluoromethane	2.13	3.19	0.668	ok	0.668	0.608-0.728
Vinyl chloride	1.75	3.19	0.549	ok	0.549	0.489-0.609
Vinyl Acetate	2.83	3.19	0.887	ok	0.887	0.827-0.947
m,p-Xylene	11.37	9.97	1.140	ok	1.139	1.079-1.199
o-Xylene	12.29	9.97	1.233	ok	1.232	1.172-1.292
TVHC As Equiv Pentane	2.24	9.97	0.225	ok	0.225	0.165-0.285

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.19	ok	3.19	2.86-3.52	106909	ok	110887	66532-155242
1,4-Difluorobenzene	4.45	ok	4.45	4.12-4.78	531012	ok	558776	335266-782286
Chlorobenzene-D5	9.97	ok	9.97	9.64-10.30	486982	ok	515873	309524-722222

Surrogate Recovery Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JE23789-1	5W60006.D	106
JE23789-1	5W60027.D	112
JE23789-2	7W18805.D	95
JE23789-2	7W18796.D	92
JE23789-2	7W18783.D	93
JE23789-3	5W60028.D	109
JE23789-3	5W60007.D	108
JE23789-4	7W18806.D	92
JE23789-4	7W18784.D	93
JE23787-3DUP	7W18777.D	92
JE23789-3DUP	5W60008.D	109
JE24006-1DUP	7W18804.D	91
V5W2301-BS	5W60002.D	99
V5W2301-BSD	5W60003.D	99
V5W2301-MB	5W60005.D	106
V7W613-SCC	7W17483.D	94
V7W624-SCC	7W17827.D	95
V7W647-SCC	7W18509.D	87
V7W655-BS	7W18766.D	94
V7W655-BSD	7W18767.D	94
V7W655-MB	7W18769.D	86
V7W656-BS	7W18799.D	96
V7W656-BSD	7W18800.D	95
V7W656-MB	7W18802.D	87
V7W613-BS	7W17474.D	98
V7W613-BSD	7W17475.D	99
V7W613-MB	7W17477.D	94
V7W624-BS	7W17802.D	101
V7W624-BSD	7W17803.D	100
V7W624-MB	7W17805.D	95
V7W647-BS	7W18505.D	92
V7W647-BSD	7W18506.D	91
V7W647-MB	7W18508.D	86

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICC2292
Lab FileID: 5W59783.D

Response Factor Report GCMS5W

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Calibration Files
0.04=5w59769.D 0.1 =5w59770.D 0.2 =5w59771.D 0.5 =5w59777.D
5 =5w59782.D 10 =5w59783.D 20 =5w59784.D 40 =5w59785.D
50 =5w59786.D 60 =5w59787.D = =

Compound	0.04	0.1	0.2	0.5	5	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	0.904	0.623	0.441	0.867	0.844	0.649	0.468				0.685	27.83
3) FREON 152A	1.190	0.843	0.777	0.639	0.629	0.634	0.654	0.669	0.679	0.703	0.742	23.17
4) CHLORODIFLUOROMETHANE	0.261	0.310	0.322	0.317	0.319	0.318	0.321	0.312	0.309	0.313	0.310	5.70
5) CHLOROTRIFLUOROETHENE	1.547	1.519	1.498	1.506	1.563	1.584	1.608	1.574	1.553	1.582	1.553	2.33
6) DICHLORODIFLUOROMETHANE	2.985	2.960	2.993	2.976	2.973	2.974	2.928	2.665	2.607	2.557	2.862	6.17
7) PROPYLENE	1.163	0.858	0.858	0.767	0.686	0.687	0.692	0.670	0.647	0.647	0.768	20.84
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.780	2.706	2.572	2.594	2.313	2.270	2.220	1.987	1.876	1.858	2.318	14.62
9) FREON 114	2.937	2.861	2.921	2.907	2.796	2.727	2.639	2.259	2.075	2.040	2.616	13.59
10) CHLOROMETHANE	0.431	0.378	0.356	0.335	0.302	0.297	0.293	0.263	0.244	0.242	0.314	19.44
11) VINYL CHLORIDE	1.049	1.003	1.074	1.031	1.012	1.001	0.979	0.875	0.834	0.829	0.969	9.24
12) 1,3-BUTADIENE	0.749	0.651	0.660	0.616	0.592	0.574	0.542	0.498	0.476	0.474	0.583	15.30
13) n-BUTANE	1.389	1.067	1.063	1.022	0.942	0.918	0.873	0.782	0.739	0.736	0.953	20.68
14) BROMOMETHANE	1.246	1.098	1.104	1.032	1.048	1.039	1.003	0.930	0.898	0.905	1.030	10.28
15) CHLOROETHANE	0.741	0.573	0.510	0.453	0.430	0.429	0.383	0.375	0.359		0.473	25.66
16) DICHLOROFLUOROMETHANE	2.476	2.142	2.254	2.245	2.119	2.098	2.008	1.802	1.755	1.690	2.059	12.07
17) ACETONITRILE	0.672	0.547	0.640	0.621	0.555	0.546	0.514	0.465	0.444	0.440	0.544	14.95
18) ACROLEIN	0.368	0.324	0.348	0.304	0.344	0.324	0.299	0.268	0.257	0.259	0.309	12.60
19) FREON 123	3.217	2.695	2.600	2.612	2.453	2.381	2.248	1.947	1.846	1.818	2.382	18.31
20) FREON 123A	1.580	1.536	1.456	1.509	1.438	1.391	1.317	1.182	1.137	1.133	1.368	12.24
21) TRICHLOROFLUOROMETHANE	2.581	2.586	2.629	2.688	2.603	2.488	2.433	2.204	2.126	2.106	2.445	8.97
22) ISOPROPYL ALCOHOL	2.614	2.508	2.222	2.040	1.950	1.865	1.714	1.590	1.499	1.605	1.961	19.74
23) ACETONE												

```
                    0.630 0.436 0.382 0.383 0.361 0.324 0.307 0.315  0.392   26.83
24)  PENTANE
          1.642 1.236 1.065 0.988 0.887 0.890 0.897 0.874 0.848 0.861  1.019   24.53
25)  IODOMETHANE
          3.028 3.099 3.178 3.075 3.112 3.051 3.062 2.974 2.936 2.953  3.047    2.50
26)  1,1-DICHLOROETHYLENE
          1.447 1.169 1.069 1.090 1.017 0.995 0.996 0.975 0.978 0.990  1.073   13.53
27)  CARBON DISULFIDE
          2.997 3.014 2.977 2.890 2.819 2.764 2.735 2.653 2.618 2.638  2.810    5.44
28)  ETHANOL
                          0.410 0.368 0.360 0.325 0.282 0.280 0.274  0.329   16.02
29)  BROMOETHENE
          1.144 1.045 1.084 1.077 1.054 1.046 1.003 0.925 0.895 0.887  1.016    8.53
30)  ACRYLONITRILE
          0.731 0.728 0.766 0.659 0.613 0.615 0.631 0.630 0.623 0.643  0.664    8.45
31)  METHYLENE CHLORIDE
          1.452 1.200 1.182 0.923 0.907 0.882 0.885 0.862 0.863 0.878  1.003   20.24
32)  3-CHLOROPROPENE
          0.592 0.509 0.507 0.503 0.454 0.454 0.455 0.447 0.449 0.461  0.483    9.46
33)  FREON 113
          1.817 1.755 1.790 1.795 1.801 1.780 1.806 1.784 1.751 1.767  1.785    1.22
34)  TRANS-1,2-DICHLOROETHYLENE
          1.406 1.205 1.180 1.132 1.061 1.031 1.048 1.050 1.047 1.085  1.125   10.31
35)  TERTIARY BUTYL ALCOHOL
          2.011 1.926 2.111 2.081 2.179 2.134 2.097 1.869 1.847 1.796  2.005    6.76
36)  METHYL TERTIARY BUTYL ETHER
          3.856 3.026 2.904 2.828 2.710 2.672 2.659 2.576 2.512 2.562  2.830   13.94
37)  TETRAHYDROFURAN
                0.289 0.323 0.368 0.410 0.414 0.422 0.416 0.417 0.434  0.388   13.03
38)  HEXANE
          1.915 1.826 1.847 1.513 1.521 1.530 1.570 1.453 1.436 1.353  1.597   12.17
39)  VINYL ACETATE
                    0.067 0.100 0.168 0.173 0.192 0.191 0.196 0.204  0.161   31.11
40)  1,1-DICHLOROETHANE
          2.633 2.495 2.189 2.043 1.949 1.897 1.894 1.857 1.819 1.859  2.063   13.90
41)  METHYL ETHYL KETONE
                0.183 0.275 0.353 0.436 0.436 0.443 0.444 0.443 0.463  0.386   25.10
42)  cis-1,2-DICHLOROETHYLENE
          1.936 1.350 1.202 1.161 1.089 1.079 1.109 1.087 1.109 1.135  1.226   21.40
43)  DIISOPROPYL ETHER
          0.264 0.354 0.387 0.430 0.466 0.474 0.486 0.457 0.450 0.431  0.420   16.24
44)  ETHYL ACETATE
                0.083 0.229 0.295 0.349 0.343 0.350 0.339 0.335 0.333  0.295   29.95
45)  METHYL ACRYLATE
          0.432 1.287 1.422 1.650 1.890 1.915 1.940 1.815 1.761 1.699  1.581   28.86
46)  CHLOROFORM
          2.352 2.269 2.286 2.272 2.286 2.248 2.196 2.129 2.087 2.110  2.223    3.98
47)  2,4-DIMETHYLPENTANE
          2.053 1.842 1.846 1.806 1.778 1.772 1.798 1.731 1.733 1.710  1.807    5.41
48)  1,1,1-TRICHLOROETHANE
          2.325 2.281 2.406 2.366 2.372 2.352 2.356 2.258 2.249 2.226  2.319    2.65
49)  CARBON TETRACHLORIDE
          2.444 2.411 2.530 2.547 2.639 2.617 2.629 2.495 2.438 2.439  2.519    3.44
50)  1,2-DICHLOROETHANE
          1.533 1.473 1.599 1.594 1.593 1.588 1.592 1.515 1.471 1.491  1.545    3.50

51) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
52)  BENZENE
          0.696 0.655 0.643 0.656 0.654 0.658 0.683 0.675 0.693 0.687  0.670    2.84
53)  CYCLOHEXANE
```

0.273 0.253 0.260 0.267 0.265 0.261 0.271 0.269 0.280 0.278 0.268 3.20
54) 2,3-DIMETHYLPENTANE
0.129 0.129 0.130 0.128 0.130 0.135 0.137 0.144 0.146 0.145 0.135 5.39
55) TRICHLOROETHYLENE
0.328 0.325 0.320 0.336 0.341 0.346 0.363 0.354 0.359 0.342 0.341 4.26
56) 1,2-DICHLOROPROPANE
0.438 0.404 0.281 0.300 0.278 0.277 0.289 0.285 0.283 0.275 0.311 18.96
57) DIBROMOMETHANE
0.424 0.377 0.366 0.351 0.361 0.367 0.389 0.393 0.396 0.391 0.381 5.63
58) ETHYL ACRYLATE
0.253 0.395 0.528 0.532 0.558 0.543 0.544 0.537 0.486 22.14
59) BROMODICHLOROMETHANE
0.553 0.553 0.574 0.575 0.604 0.609 0.628 0.607 0.618 0.597 0.592 4.47
60) 2,2,4-TRIMETHYLPENTANE
1.172 1.070 1.076 1.110 1.083 1.092 1.093 1.008 0.985 0.912 1.060 6.91
61) 1,4-DIOXANE
0.119 0.163 0.166 0.153 0.156 0.158 0.161 0.149 0.155 0.148 0.153 8.55
62) HEPTANE
0.486 0.429 0.412 0.394 0.359 0.364 0.366 0.350 0.352 0.343 0.385 11.77
63) METHYL METHACRYLATE
0.165 0.191 0.210 0.220 0.230 0.237 0.235 0.237 0.240 0.218 11.74
64) METHYL ISOBUTYL KETONE
0.094 0.143 0.177 0.216 0.220 0.232 0.229 0.234 0.233 0.198 25.14
65) cis-1,3-DICHLOROPROPENE
0.549 0.472 0.454 0.444 0.448 0.457 0.480 0.484 0.488 0.488 0.477 6.41
66) TOLUENE
0.453 0.460 0.472 0.473 0.501 0.504 0.534 0.536 0.536 0.539 0.501 6.86
67) 1,3-DICHLOROPROPANE
0.388 0.399 0.412 0.403 0.408 0.405 0.424 0.412 0.418 0.413 0.408 2.50
68) trans-1,3-DICHLOROPROPENE
0.532 0.455 0.440 0.408 0.413 0.432 0.450 0.446 0.464 0.458 0.450 7.61
69) 1,1,2-TRICHLOROETHANE
0.222 0.260 0.256 0.259 0.273 0.275 0.289 0.291 0.298 0.295 0.272 8.64

70) I CHLOROBENZENE-D5 ----------ISTD----------
71) 2-HEXANONE
0.408 0.431 0.614 0.614 0.604 0.521 0.508 0.486 0.523 15.56
72) ETHYL METHACRYLATE
0.516 0.665 0.708 0.800 0.801 0.777 0.665 0.658 0.627 0.691 13.43
73) TETRACHLOROETHYLENE
0.676 0.720 0.732 0.733 0.739 0.718 0.701 0.620 0.602 0.581 0.682 8.74
74) DIBROMOCHLOROMETHANE
1.151 1.237 1.210 1.236 1.308 1.287 1.240 1.073 1.045 0.990 1.178 9.18
75) 1,2-DIBROMOETHANE
0.796 0.917 0.967 0.994 1.020 0.988 0.966 0.866 0.842 0.809 0.916 8.99
76) OCTANE
1.367 1.023 1.031 0.997 0.998 0.951 0.922 0.779 0.739 0.693 0.950 20.17
77) 1,1,1,2-TETRACHLOROETHANE
0.759 0.752 0.771 0.778 0.809 0.810 0.790 0.715 0.681 0.635 0.750 7.58
78) CHLOROBENZENE
1.396 1.346 1.325 1.345 1.310 1.304 1.267 1.132 1.076 0.996 1.250 10.70
79) ETHYLBENZENE
2.081 2.086 2.090 2.062 2.054 2.026 1.959 1.699 1.615 1.496 1.917 11.72
80) m,p-XYLENE
0.737 0.778 0.808 0.808 0.831 0.813 0.805 0.692 0.665 0.617 0.755 9.80
81) o-XYLENE
0.690 0.721 0.758 0.763 0.789 0.776 0.769 0.649 0.607 0.548 0.707 11.55
82) STYRENE
0.842 1.090 1.135 1.188 1.219 1.241 1.200 1.083 1.051 0.991 1.104 11.06
83) NONANE

Initial Calibration Summary

Job Number: JE23789 **Sample:** V5W2292-ICC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59783.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
           1.263 1.143 1.098 1.070 1.015 0.984 0.936 0.758 0.711 0.630  0.961   21.20
 84)  BROMOFORM
           0.975 1.099 1.138 1.163 1.350 1.334 1.294 1.136 1.095 1.036  1.162   10.84
 85)  4-BROMOFLUOROBENZENE
           1.330 1.340 1.366 1.347 1.327 1.287 1.218 1.121 1.095 1.064  1.249    9.27
 86)  1,1,2,2-TETRACHLOROETHANE
           1.295 1.327 1.329 1.369 1.391 1.354 1.306 1.073 0.984 0.872  1.230   14.92
 87)  1,2,3-TRICHLOROPROPANE
           1.343 1.154 1.094 1.066 1.002 0.961 0.918 0.802 0.795 0.755  0.989   18.56
 88)  ISOPROPYLBENZENE
           2.240 2.330 2.361 2.367 2.405 2.373 2.298 1.911 1.764 1.610  2.166   13.45
 89)  BROMOBENZENE
           1.244 1.237 1.285 1.170 1.203 1.169 1.138 0.981 0.955 0.885  1.127   12.18
 90)  2-CHLOROTOLUENE
           0.536 0.627 0.631 0.629 0.644 0.645 0.636 0.568 0.559 0.524  0.600    7.92
 91)  n-PROPYLBENZENE
           0.507 0.562 0.604 0.628 0.636 0.654 0.635 0.554 0.528 0.499  0.581    9.98
 92)  4-ETHYLTOLUENE
           1.639 1.966 2.121 2.208 2.358 2.292 2.208 1.826 1.672 1.521  1.981   15.14
 93)  1,3,5-TRIMETHYLBENZENE
           2.134 2.114 2.126 2.019 2.006 1.939 1.861 1.528 1.413 1.278  1.842   17.25
 94)  ALPHA-METHYLSTYRENE
           0.664 0.815 0.913 0.949 1.039 1.056 1.037 0.912 0.886 0.802  0.907   13.61
 95)  tert-BUTYLBENZENE
                 0.385 0.387 0.399 0.430 0.437 0.419 0.333 0.301 0.273  0.374   15.59
 96)  1,2,4-TRIMETHYLBENZENE
           1.774 1.808 1.921 1.943 2.043 2.024 1.886 1.411 1.261 1.116  1.719   19.36
 97)  m-DICHLOROBENZENE
           1.071 1.275 1.361 1.467 1.581 1.575 1.484 1.226 1.105 0.994  1.314   16.21
 98)  BENZYL CHLORIDE
           1.079 1.369 1.537 1.720 2.062 2.046 1.914 1.531 1.366 1.212  1.584   21.69
 99)  p-DICHLOROBENZENE
           1.495 1.539 1.589 1.568 1.519 1.496 1.454 1.250 1.145 1.072  1.413   13.19
100)  sec-BUTYLBENZENE
           0.443 0.490 0.508 0.501 0.536 0.521 0.509 0.438 0.405 0.385  0.474   10.99
101)  1,2,3-TRIMETHYLBENZENE
           1.891 2.048 2.044 2.086 2.132 2.084 1.952 1.469 1.317 1.153  1.818   19.95
102)  p-ISOPROPYLTOLUENE
           0.478 0.540 0.594 0.609 0.642 0.635 0.609 0.471 0.423 0.368  0.537   17.98
103)  o-DICHLOROBENZENE
           1.222 1.365 1.402 1.444 1.466 1.430 1.407 1.207 1.165 1.072  1.318   10.51
104)  n-BUTYLBENZENE
           0.393 0.469 0.535 0.547 0.617 0.598 0.602 0.528 0.503 0.466  0.526   13.41
105)  HEXACHLOROETHANE
           0.945 0.925 0.962 0.982 1.025 1.011 0.994 0.812 0.739 0.669  0.906   13.59
106)  HEXACHLOROBUTADIENE
           1.290 1.305 1.341 1.386 1.445 1.419 1.355 1.012 0.902 0.796  1.225   18.99
107)  1,2,4-TRICHLOROBENZENE
           1.125 1.174 1.216 1.297 1.397 1.381 1.375 1.174 1.089 0.985  1.221   11.36
108)  NAPHTHALENE
           2.542 2.726 2.760 2.887 3.309 3.228 3.019 2.334 2.035 1.777  2.662   18.70

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
           6.493 5.469 7.159 6.304 5.822 5.911 6.041 5.816 5.676 5.781  6.047    8.12
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M5w2292.M         Mon Nov 10 09:45:04 2025
```

Initial Calibration Verification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V5W2292-ICV2292
Lab FileID: 5W59790.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w59790.D Vial: 5
Acq On : 7 Nov 2025 12:25 pm Operator: benk
Sample : icv2292-10 Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	109	0.00	7.35
2	FREON 115	0.685	0.779	-13.7	130	0.00	3.37
3	FREON 152A	0.742	0.643	13.3	110	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	109	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.530	1.5	105	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	2.988	-4.4	109	0.00	3.55
7	PROPYLENE	0.768	0.702	8.6	111	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.153	7.1	103	0.00	3.65
9	FREON 114	2.616	2.753	-5.2	110	0.00	3.73
10	CHLOROMETHANE	0.314	0.302	3.8	110	0.00	3.67
11	VINYL CHLORIDE	0.969	0.972	-0.3	105	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	106	0.00	3.91
13	n-BUTANE	0.953	0.914	4.1	108	0.00	3.95
14	BROMOMETHANE	1.030	1.045	-1.5	109	0.00	4.11
15	CHLOROETHANE	0.473	0.420	11.2	106	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.125	-3.2	110	0.00	4.29
17	ACETONITRILE	0.544	0.544	0.0	108	0.00	4.48
18	ACROLEIN	0.309	0.333	-7.8	112	0.00	4.57
19	FREON 123	2.382	2.220	6.8	101	0.00	4.59
20	FREON 123A	1.368	1.202	12.1	94	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.504	-2.4	109	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.814	7.5	106	0.00	4.87
23	ACETONE	0.392	0.355	9.4	101	0.00	4.67
24	PENTANE	1.019	0.893	12.4	109	0.00	5.07
25	IODOMETHANE	3.047	3.023	0.8	108	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	0.965	10.1	105	0.00	5.32
27	CARBON DISULFIDE	2.810	2.525	10.1	99	0.00	5.67
28	ETHANOL	0.329	0.346	-5.2	104	0.00	4.31
29	BROMOETHENE	1.016	0.992	2.4	103	0.00	4.48
30	ACRYLONITRILE	0.664	0.612	7.8	108	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.881	12.2	108	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.449	7.0	108	0.00	5.52
33	FREON 113	1.785	1.773	0.7	108	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.001	11.0	105	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	2.333	-16.4	119	0.00	5.37
36	METHYL TERTIARY BUTYL ETH	2.830	2.647	6.5	108	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.451	-16.2	118	0.00	7.86
38	HEXANE	1.597	1.514	5.2	107	0.00	7.38
39	VINYL ACETATE	0.161	0.179	-11.2	112	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.900	7.9	109	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.431	-11.7	107	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.081	11.8	109	0.00	7.20

Initial Calibration Verification

Job Number: JE23789 **Sample:** V5W2292-ICV2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59790.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43		DIISOPROPYL ETHER	0.420	0.475	-13.1	109	0.00	7.39
44		ETHYL ACETATE	0.295	0.316	-7.1	100	0.00	7.42
45		METHYL ACRYLATE	1.581	1.896	-19.9	108	0.00	7.40
46		CHLOROFORM	2.223	2.242	-0.9	108	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.797	0.6	110	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.340	-0.9	108	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.531	-0.5	105	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.580	-2.3	108	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	107	0.00	9.21
52		BENZENE	0.670	0.673	-0.4	110	0.00	8.85
53		CYCLOHEXANE	0.268	0.265	1.1	109	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.135	0.0	107	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.344	-0.9	107	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.279	10.3	108	0.00	9.65
57		DIBROMOMETHANE	0.381	0.364	4.5	106	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.544	-11.9	110	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.612	-3.4	108	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.094	-3.2	107	0.00	9.91
61		1,4-DIOXANE	0.153	0.172	-12.4	117	0.00	9.90
62		HEPTANE	0.385	0.362	6.0	106	0.00	10.19
63		METHYL METHACRYLATE	0.218	0.234	-7.3	109	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.228	-15.2	111	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.428	10.3	100	0.00	10.75
66		TOLUENE	0.501	0.522	-4.2	111	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.415	-1.7	110	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.426	5.3	106	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.279	-2.6	109	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	0.00	13.54
71		2-HEXANONE	0.523	0.623	-19.1	109	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.789	-14.2	106	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.719	-5.4	107	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.278	-8.5	106	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	0.991	-8.2	108	0.00	12.40
76		OCTANE	0.950	0.982	-3.4	111	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.807	-7.6	107	0.00	13.56
78		CHLOROBENZENE	1.250	1.307	-4.6	108	0.00	13.58
79		ETHYLBENZENE	1.917	2.022	-5.5	107	0.00	13.99
80		m,p-XYLENE	0.755	0.820	-8.6	108	0.00	14.18
81		o-XYLENE	0.707	0.798	-12.9	110	0.00	14.68
82		STYRENE	1.104	1.193	-8.1	103	0.00	14.57
83		NONANE	0.961	0.979	-1.9	107	0.00	14.93
84		BROMOFORM	1.162	1.338	-15.1	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.271	-1.8	106	0.00	15.16
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.370	-11.4	109	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.972	1.7	108	0.00	14.82
88		ISOPROPYLBENZENE	2.166	2.352	-8.6	106	0.00	15.29
89		BROMOBENZENE	1.127	1.177	-4.4	108	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.648	-8.0	108	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.653	-12.4	107	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.350	-18.6	110	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.949	-5.8	108	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	0.970	-6.9	98	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.445	-19.0	109	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.034	-18.3	108	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.579	-20.2	108	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.924	-21.5	101	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.485	-5.1	106	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.527	-11.2	108	0.00	16.70

Initial Calibration Verification

Job Number: JE23789 **Sample:** V5W2292-ICV2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W59790.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.100	-15.5	108	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.630	-17.3	106	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.447	-9.8	109	0.00	16.98
104		n-BUTYLBENZENE	0.526	0.598	-13.7	107	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.898	0.9	95	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.374	-12.2	104	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.350	-10.6	105	0.00	18.89
108		NAPHTHALENE	2.662	3.063	-15.1	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	108	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.852	3.2	107	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Mon Nov 10 09:44:44 2025

6.9.2
6

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60001.D Vial: 2
Acq On : 24 Nov 2025 9:49 am Operator: benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Nov 10 09:40:30 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	103	0.00	7.35
2	FREON 115	0.685	0.650	5.1	103	0.00	3.37
3	FREON 152A	0.742	0.612	17.5	99	0.00	3.44
4	CHLORODIFLUOROMETHANE	0.310	0.319	-2.9	103	0.00	3.48
5	CHLOROTRIFLUOROETHENE	1.553	1.657	-6.7	107	0.00	3.51
6	DICHLORODIFLUOROMETHANE	2.862	3.030	-5.9	104	0.00	3.55
7	PROPYLENE	0.768	0.623	18.9	93	0.00	3.50
8	1-CHLORO-1,1-DIFLUOROETHA	2.318	2.297	0.9	104	0.00	3.65
9	FREON 114	2.616	2.883	-10.2	108	0.00	3.73
10	CHLOROMETHANE	0.314	0.281	10.5	97	0.00	3.67
11	VINYL CHLORIDE	0.969	0.994	-2.6	102	0.00	3.82
12	1,3-BUTADIENE	0.583	0.558	4.3	100	0.00	3.91
13	n-BUTANE	0.953	0.869	8.8	97	0.00	3.95
14	BROMOMETHANE	1.030	1.106	-7.4	109	0.00	4.11
15	CHLOROETHANE	0.473	0.431	8.9	103	0.00	4.23
16	DICHLOROFLUOROMETHANE	2.059	2.152	-4.5	105	0.00	4.29
17	ACETONITRILE	0.544	0.522	4.0	98	0.00	4.48
18	ACROLEIN	0.309	0.307	0.6	97	0.00	4.57
19	FREON 123	2.382	2.544	-6.8	110	0.00	4.59
20	FREON 123A	1.368	1.505	-10.0	111	0.00	4.63
21	TRICHLOROFLUOROMETHANE	2.445	2.691	-10.1	111	0.00	4.79
22	ISOPROPYL ALCOHOL	1.961	1.675	14.6	92	0.00	4.87
23	ACETONE	0.392	0.386	1.5	103	0.00	4.67
24	PENTANE	1.019	0.807	20.8	93	0.00	5.07
25	IODOMETHANE	3.047	3.258	-6.9	110	0.00	5.26
26	1,1-DICHLOROETHYLENE	1.073	1.032	3.8	106	0.00	5.32
27	CARBON DISULFIDE	2.810	2.762	1.7	102	0.00	5.67
28	ETHANOL	0.329	0.359	-9.1	102	0.00	4.32
29	BROMOETHENE	1.016	1.138	-12.0	112	0.00	4.48
30	ACRYLONITRILE	0.664	0.575	13.4	96	0.00	5.04
31	METHYLENE CHLORIDE	1.003	0.914	8.9	106	0.00	5.42
32	3-CHLOROPROPENE	0.483	0.437	9.5	99	0.00	5.52
33	FREON 113	1.785	1.909	-6.9	110	0.00	5.64
34	TRANS-1,2-DICHLOROETHYLEN	1.125	1.066	5.2	106	0.00	6.24
35	TERTIARY BUTYL ALCOHOL	2.005	1.976	1.4	95	0.00	5.38
36	METHYL TERTIARY BUTYL ETH	2.830	2.633	7.0	101	0.00	6.47
37	TETRAHYDROFURAN	0.388	0.407	-4.9	101	0.00	7.86
38	HEXANE	1.597	1.427	10.6	96	0.00	7.38
39	VINYL ACETATE	0.161	0.169	-5.0	100	0.00	6.56
40	1,1-DICHLOROETHANE	2.063	1.832	11.2	99	0.00	6.42
41	METHYL ETHYL KETONE	0.386	0.416	-7.8	98	0.00	6.80
42	cis-1,2-DICHLOROETHYLENE	1.226	1.103	10.0	105	0.00	7.19

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43		DIISOPROPYL ETHER	0.420	0.446	-6.2	97	0.00	7.38
44		ETHYL ACETATE	0.295	0.326	-10.5	98	0.00	7.42
45		METHYL ACRYLATE	1.581	1.788	-13.1	96	0.00	7.40
46		CHLOROFORM	2.223	2.301	-3.5	105	0.00	7.48
47		2,4-DIMETHYLPENTANE	1.807	1.640	9.2	95	0.00	8.22
48		1,1,1-TRICHLOROETHANE	2.319	2.386	-2.9	104	0.00	8.41
49		CARBON TETRACHLORIDE	2.519	2.656	-5.4	104	0.00	8.99
50		1,2-DICHLOROETHANE	1.545	1.513	2.1	98	0.00	8.17
51	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00	9.21
52		BENZENE	0.670	0.663	1.0	102	0.00	8.85
53		CYCLOHEXANE	0.268	0.260	3.0	101	0.00	9.10
54		2,3-DIMETHYLPENTANE	0.135	0.132	2.2	99	0.00	9.35
55		TRICHLOROETHYLENE	0.341	0.368	-7.9	108	0.00	9.89
56		1,2-DICHLOROPROPANE	0.311	0.268	13.8	98	0.00	9.65
57		DIBROMOMETHANE	0.381	0.400	-5.0	111	0.00	9.63
58		ETHYL ACRYLATE	0.486	0.502	-3.3	96	0.00	9.68
59		BROMODICHLOROMETHANE	0.592	0.625	-5.6	104	0.00	9.85
60		2,2,4-TRIMETHYLPENTANE	1.060	1.033	2.5	96	0.00	9.91
61		1,4-DIOXANE	0.153	0.162	-5.9	104	0.00	9.90
62		HEPTANE	0.385	0.323	16.1	90	0.00	10.18
63		METHYL METHACRYLATE	0.218	0.225	-3.2	99	0.00	10.11
64		METHYL ISOBUTYL KETONE	0.198	0.209	-5.6	96	0.00	10.79
65		cis-1,3-DICHLOROPROPENE	0.477	0.456	4.4	101	0.00	10.75
66		TOLUENE	0.501	0.512	-2.2	103	0.00	11.72
67		1,3-DICHLOROPROPANE	0.408	0.409	-0.2	103	0.00	11.75
68		trans-1,3-DICHLOROPROPENE	0.450	0.432	4.0	101	0.00	11.28
69		1,1,2-TRICHLOROETHANE	0.272	0.285	-4.8	105	0.00	11.45
70	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00	13.53
71		2-HEXANONE	0.523	0.580	-10.9	95	0.00	12.01
72		ETHYL METHACRYLATE	0.691	0.782	-13.2	99	0.00	12.02
73		TETRACHLOROETHYLENE	0.682	0.805	-18.0	113	0.00	12.87
74		DIBROMOCHLOROMETHANE	1.178	1.365	-15.9	107	0.00	12.15
75		1,2-DIBROMOETHANE	0.916	1.051	-14.7	107	0.00	12.39
76		OCTANE	0.950	0.880	7.4	93	0.00	12.74
77		1,1,1,2-TETRACHLOROETHANE	0.750	0.847	-12.9	105	0.00	13.56
78		CHLOROBENZENE	1.250	1.365	-9.2	106	0.00	13.58
79		ETHYLBENZENE	1.917	2.077	-8.3	103	0.00	13.98
80		m,p-XYLENE	0.755	0.819	-8.5	102	0.00	14.18
81		o-XYLENE	0.707	0.793	-12.2	103	0.00	14.68
82		STYRENE	1.104	1.238	-12.1	101	0.00	14.57
83		NONANE	0.961	0.916	4.7	94	0.00	14.93
84		BROMOFORM	1.162	1.434	-23.4	108	0.00	14.25
85	S	4-BROMOFLUOROBENZENE	1.249	1.269	-1.6	99	0.00	15.15
86		1,1,2,2-TETRACHLOROETHANE	1.230	1.384	-12.5	103	0.00	14.68
87		1,2,3-TRICHLOROPROPANE	0.989	0.971	1.8	102	0.00	14.81
88		ISOPROPYLBENZENE	2.166	2.356	-8.8	100	0.00	15.29
89		BROMOBENZENE	1.127	1.169	-3.7	101	0.00	15.37
90		2-CHLOROTOLUENE	0.600	0.664	-10.7	104	0.00	15.77
91		n-PROPYLBENZENE	0.581	0.659	-13.4	102	0.00	15.81
92		4-ETHYLTOLUENE	1.981	2.339	-18.1	103	0.00	15.96
93		1,3,5-TRIMETHYLBENZENE	1.842	1.987	-7.9	103	0.00	16.04
94		ALPHA-METHYLSTYRENE	0.907	1.038	-14.4	99	0.00	16.19
95		tert-BUTYLBENZENE	0.374	0.450	-20.3	104	0.00	16.43
96		1,2,4-TRIMETHYLBENZENE	1.719	2.087	-21.4	104	0.00	16.44
97		m-DICHLOROBENZENE	1.314	1.625	-23.7	104	0.00	16.58
98		BENZYL CHLORIDE	1.584	1.930	-21.8	95	0.00	16.57
99		p-DICHLOROBENZENE	1.413	1.541	-9.1	104	0.00	16.65
100		sec-BUTYLBENZENE	0.474	0.516	-8.9	100	0.00	16.70

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V5W2301-CC2292
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 5W60001.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101		1,2,3-TRIMETHYLBENZENE	1.818	2.150	-18.3	104	0.00	16.85
102		p-ISOPROPYLTOLUENE	0.537	0.657	-22.3	104	0.00	16.85
103		o-DICHLOROBENZENE	1.318	1.459	-10.7	103	0.00	16.97
104		n-BUTYLBENZENE	0.526	0.603	-14.6	102	0.00	17.26
105		HEXACHLOROETHANE	0.906	0.831	8.3	83	0.00	17.61
106		HEXACHLOROBUTADIENE	1.225	1.512	-23.4	108	0.00	18.97
107		1,2,4-TRICHLOROBENZENE	1.221	1.482	-21.4	108	0.00	18.88
108		NAPHTHALENE	2.662	3.274	-23.0	102	0.00	18.66
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	102	0.00	7.35
110		TVHC as equiv Pentane	6.047	5.436	10.1	94	0.00	5.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w59783.D M5w2292.M Tue Nov 25 23:10:44 2025

Initial Calibration Summary

Job Number: JE23789 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Response Factor Report MS7W

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Calibration Files
0.04=7w16576.D 0.10=7w16577.D 0.20=7w16583.D 0.5 =7w16584.D
5.0 =7w16589.D 10 =7w16590.D 20 =7w16591.D 40 =7w16592.D
50 =7w16593.D 60 =7w16594.D = =

Compound	0.04	0.10	0.20	0.5	5.0	10	20	40	50	60	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115	1.203	1.393	1.114	1.143	1.254	1.290	1.096				1.213	8.81
3) FREON 152A	0.745	0.766	0.515	0.617	0.600	0.616	0.583	0.573	0.625	0.619	0.626	12.09
4) CHLORODIFLUOROMETHANE	0.262	0.310	0.227	0.298	0.278	0.280	0.263	0.256	0.274	0.268	0.272	8.44
5) CHLOROTRIFLUOROETHENE	1.236	1.313	1.228	1.323	1.328	1.374	1.287	1.267	1.368	1.350	1.307	3.96
6) DICHLORODIFLUOROMETHANE	2.430	2.605	2.232	2.464	2.458	2.507	2.286	2.240	2.393	2.333	2.395	5.06
7) PROPYLENE	1.071	0.884	0.802	0.773	0.770	0.792	0.740	0.724	0.781	0.764	0.810	12.49
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.209	2.330	2.069	2.243	2.205	2.234	2.046	1.940	2.046	1.984	2.131	6.08
9) FREON 114	2.502	2.559	2.224	2.545	2.563	2.616	2.427	2.335	2.486	2.428	2.469	4.82
10) CHLOROMETHANE	0.455	0.388	0.331	0.328	0.341	0.337	0.316	0.304	0.322	0.312	0.343	13.20
11) VINYL CHLORIDE	1.458	1.323	1.045	1.211	1.233	1.252	1.156	1.121	1.196	1.166	1.216	9.35
12) 1,3-BUTADIENE	1.219	1.115	0.851	0.966	0.948	0.970	0.888	0.854	0.905	0.890	0.961	12.39
13) N-BUTANE	2.037	1.684	1.681	1.625	1.658	1.513	1.438	1.522	1.470		1.625	11.08
14) BROMOMETHANE	1.198	1.035	0.868	0.913	0.937	0.952	0.882	0.849	0.907	0.888	0.943	11.02
15) CHLOROETHANE	0.861	0.707	0.614	0.656	0.639	0.662	0.623	0.586	0.634	0.618	0.660	11.78
16) DICHLOROFLUOROMETHANE	2.550	2.579	2.157	2.307	2.310	2.365	2.164	2.072	2.204	2.152	2.286	7.50
17) ACETONITRILE	1.721	1.525	1.208	1.108	1.011	1.040	0.948	0.902	0.961	0.935	1.136	24.30
18) ACROLEIN	0.687	0.560	0.578	0.522	0.542	0.495	0.474	0.507	0.493		0.540	11.98
19) FREON 123	2.414	2.455	2.175	2.383	2.349	2.423	2.225	2.120	2.271	2.217	2.303	5.06
20) FREON 123A	1.611	1.387	1.303	1.356	1.389	1.419	1.304	1.248	1.330	1.298	1.364	7.40
21) TRICHLOROFLUOROMETHANE	2.753	2.717	2.507	2.784	2.706	2.755	2.516	2.365	2.495	2.413	2.601	6.06
22) ISOPROPYL ALCOHOL	2.546	2.456	2.277	2.284	2.064	1.926	2.061	2.020			2.204	10.05
23) ACETONE												

Initial Calibration Summary

Job Number: JE23789 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
                    0.656 0.680 0.609 0.633 0.569 0.543 0.574 0.556  0.603    8.27
24)  PENTANE
          1.606 1.407 1.190 1.200 1.152 1.181 1.073 1.014 1.072 1.043  1.194   15.35
25)  IODOMETHANE
          2.438 2.580 2.265 2.470 2.464 2.527 2.313 2.208 2.364 2.301  2.393    5.06
26)  1,1-DICHLOROETHYLENE
          1.069 1.117 0.969 0.998 1.011 1.023 0.937 0.893 0.958 0.941  0.991    6.72
27)  CARBON DISULFIDE
          2.988 3.039 2.590 2.949 2.902 2.970 2.722 2.581 2.743 2.649  2.813    6.24
28)  ETHANOL
                    0.707 0.722 0.581 0.585 0.538 0.501 0.535 0.525  0.587   14.28
29)  BROMOETHENE
          1.011 1.016 0.878 0.948 0.967 0.995 0.915 0.878 0.942 0.919  0.947    5.32
30)  ACRYLONITRILE
                    0.902 0.945 0.863 0.877 0.802 0.767 0.822 0.800  0.847    7.05
31)  METHYLENE CHLORIDE
               1.365 0.950 1.004 0.951 0.971 0.878 0.845 0.906 0.879  0.972   16.03
32)  3-CHLOROPROPENE
          0.565 0.547 0.514 0.539 0.548 0.554 0.515 0.489 0.524 0.509  0.530    4.50
33)  FREON 113
          1.465 1.565 1.411 1.596 1.560 1.594 1.454 1.381 1.476 1.433  1.493    5.28
34)  TRANS-1,2-DICHLOROETHENE
          1.192 1.283 0.975 1.120 1.106 1.128 1.036 0.985 1.053 1.031  1.091    8.76
35)  TERTIARY BUTYL ALCOHOL
          3.327 3.620 2.504 2.744 2.758 2.788 2.506 2.337 2.506 2.448  2.754   14.99
36)  METHYL TERTIARY BUTYL ETHER
          3.411 3.505 2.859 3.151 3.124 3.202 2.945 2.821 3.037 2.976  3.103    7.24
37)  TETRAHYDROFURAN
          0.463 0.602 0.399 0.525 0.513 0.535 0.492 0.480 0.516 0.507  0.503   10.41
38)  HEXANE
          2.426 2.447 1.855 2.100 2.092 2.121 1.971 1.886 2.029 1.974  2.090    9.71
39)  VINYL ACETATE
          0.346 0.297 0.248 0.276 0.290 0.312 0.297 0.291 0.313 0.311  0.298    8.61
40)  1,1-DICHLOROETHANE
          2.208 2.250 1.966 2.188 2.166 2.223 2.038 1.955 2.090 2.006  2.109    5.30
41)  METHYL ETHYL KETONE
          0.680 0.718 0.505 0.543 0.558 0.573 0.528 0.509 0.548 0.540  0.570   12.52
42)  CIS-1,2-DICHLOROETHENE
          1.234 1.216 1.059 1.153 1.131 1.168 1.084 1.043 1.122 1.105  1.132    5.56
43)  DIISOPROPYL ETHER
          0.655 0.625 0.569 0.597 0.608 0.610 0.568 0.546 0.580 0.566  0.593    5.54
44)  ETHYL ACETATE
          0.424 0.389 0.362 0.383 0.409 0.431 0.405 0.389 0.414 0.401  0.401    5.13
45)  METHYL ACRYLATE
          2.886 2.714 2.279 2.520 2.550 2.627 2.441 2.344 2.498 2.434  2.529    7.05
46)  CHLOROFORM
          2.197 2.312 2.087 2.345 2.258 2.323 2.107 1.996 2.127 2.074  2.183    5.57
47)  2,4-DIMETHYLPENTANE
          2.514 2.532 2.162 2.399 2.371 2.421 2.242 2.159 2.317 2.276  2.339    5.64
48)  1,1,1-TRICHLOROETHANE
          2.385 2.439 2.098 2.353 2.370 2.418 2.235 2.144 2.305 2.254  2.300    5.01
49)  CARBON TETRACHLORIDE
          2.279 2.359 2.087 2.395 2.491 2.585 2.402 2.314 2.482 2.435  2.383    5.75
50)  1,2-DICHLOROETHANE
          1.529 1.771 1.601 1.817 1.788 1.824 1.680 1.592 1.704 1.661  1.697    6.03
51)  BENZENE
          3.752 3.819 3.173 3.365 3.315 3.400 3.154 3.029 3.266 3.210  3.348    7.61

52) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
53)  CYCLOHEXANE
```

Initial Calibration Summary

Job Number: JE23789 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
          0.289 0.316 0.271 0.301 0.297 0.307 0.287 0.273 0.293 0.292  0.293    4.78
54)  2,3-DIMETHYLPENTANE
          0.134 0.157 0.127 0.152 0.150 0.156 0.144 0.140 0.149 0.149  0.146    6.57
55)  TRICHLOROETHENE
          0.321 0.352 0.277 0.322 0.315 0.327 0.303 0.290 0.307 0.305  0.312    6.69
56)  1,2-DICHLOROPROPANE
          0.293 0.297 0.236 0.287 0.276 0.288 0.269 0.259 0.276 0.274  0.276    6.53
57)  DIBROMOMETHANE
          0.334 0.292 0.244 0.263 0.256 0.267 0.247 0.241 0.257 0.257  0.266   10.55
58)  ETHYL ACRYLATE
          0.633 0.638 0.568 0.598 0.626 0.654 0.614 0.590 0.627 0.622  0.617    4.11
59)  BROMODICHLOROMETHANE
          0.497 0.496 0.450 0.504 0.522 0.542 0.509 0.488 0.518 0.513  0.504    4.82
60)  2,2,4-TRIMETHYLPENTANE
          1.551 1.607 1.274 1.372 1.313 1.363 1.263 1.209 1.281 1.270  1.350    9.64
61)  1,4-DIOXANE
                      0.119 0.148 0.155 0.162 0.148 0.142 0.153 0.153  0.148    8.73
62)  HEPTANE
          0.521 0.485 0.419 0.457 0.443 0.456 0.421 0.404 0.428 0.424  0.446    7.95
63)  METHYL METHACRYLATE
          0.275 0.256 0.220 0.251 0.252 0.262 0.247 0.238 0.254 0.251  0.251    5.74
64)  METHYL ISOBUTYL KETONE
          0.327 0.358 0.222 0.242 0.257 0.269 0.250 0.240 0.255 0.253  0.267   15.78
65)  CIS-1,3-DICHLOROPROPENE
          0.386 0.412 0.377 0.409 0.433 0.458 0.431 0.422 0.450 0.449  0.423    6.41
66)  TOLUENE
          0.794 0.853 0.735 0.806 0.797 0.829 0.777 0.750 0.801 0.798  0.794    4.35
67)  1,3-DICHLOROPROPANE
          0.371 0.411 0.360 0.404 0.410 0.429 0.401 0.383 0.408 0.403  0.398    5.17
68)  TRANS-1,3-DICHLOROPROPENE
          0.306 0.358 0.314 0.361 0.397 0.425 0.407 0.399 0.426 0.426  0.382   11.78
69)  1,1,2-TRICHLOROETHANE
          0.177 0.235 0.215 0.239 0.234 0.246 0.229 0.221 0.235 0.232  0.226    8.60
70)  2-HEXANONE
          0.551 0.561 0.286 0.321 0.341 0.353 0.330 0.317 0.337 0.334  0.373   26.30
71)  ETHYL METHACRYLATE
          0.409 0.415 0.369 0.418 0.431 0.450 0.421 0.404 0.431 0.429  0.418    5.11
72)  TETRACHLOROETHENE
          0.284 0.301 0.266 0.297 0.292 0.305 0.287 0.277 0.295 0.292  0.290    4.03
73)  DIBROMOCHLOROMETHANE
          0.387 0.447 0.377 0.424 0.479 0.511 0.486 0.474 0.507 0.505  0.460   10.69
74)  1,2-DIBROMOETHANE
          0.390 0.428 0.370 0.416 0.422 0.438 0.407 0.391 0.418 0.414  0.409    4.99
75)  OCTANE
          0.655 0.631 0.559 0.596 0.602 0.624 0.580 0.556 0.587 0.582  0.597    5.33

76) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
77)  1,1,1,2-TETRACHLOROETHANE
          0.343 0.367 0.294 0.339 0.374 0.394 0.367 0.357 0.377 0.379  0.359    7.87
78)  CHLOROBENZENE
          0.675 0.708 0.637 0.693 0.700 0.721 0.670 0.650 0.686 0.692  0.683    3.74
79)  ETHYLBENZENE
          1.102 1.188 1.022 1.113 1.145 1.188 1.103 1.070 1.126 1.136  1.119    4.50
80)  M,P-XYLENE
          0.940 0.969 0.843 0.899 0.934 0.953 0.886 0.853 0.895 0.897  0.907    4.59
81)  O-XYLENE
          0.848 0.949 0.803 0.890 0.917 0.935 0.865 0.834 0.876 0.883  0.880    5.14
82)  STYRENE
          0.585 0.667 0.537 0.636 0.698 0.728 0.678 0.664 0.699 0.705  0.660    8.95
83)  NONANE
```

Initial Calibration Summary

Job Number: JE23789 **Sample:** V7W577-ICC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16590.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

```
           0.735 0.732 0.655 0.678 0.699 0.717 0.665 0.637 0.665 0.669  0.685    4.92
 84)  BROMOFORM
           0.327 0.379 0.342 0.378 0.440 0.475 0.457 0.452 0.483 0.489  0.422   14.30
 85)  1,1,2,2-TETRACHLOROETHANE
           0.585 0.632 0.595 0.635 0.663 0.680 0.629 0.606 0.638 0.642  0.630    4.61
 86)  1,2,3-TRICHLOROPROPANE
           0.459 0.490 0.452 0.513 0.520 0.536 0.491 0.474 0.500 0.506  0.494    5.38
 87)  4-BROMOFLUOROBENZENE
           0.795 0.797 0.788 0.782 0.814 0.814 0.811 0.819 0.805 0.827  0.805    1.77
 88)  ISOPROPYLBENZENE
           0.310 0.362 0.307 0.333 0.350 0.358 0.331 0.321 0.335 0.340  0.335    5.62
 89)  BROMOBENZENE
           0.635 0.709 0.582 0.638 0.665 0.677 0.629 0.608 0.638 0.645  0.643    5.48
 90)  2-CHLOROTOLUENE
           0.291 0.323 0.266 0.303 0.327 0.338 0.316 0.306 0.323 0.327  0.312    6.80
 91)  N-PROPYLBENZENE
           0.304 0.354 0.329 0.341 0.378 0.388 0.362 0.351 0.370 0.374  0.355    7.08
 92)  4-ETHYLTOLUENE
           1.225 1.328 1.167 1.286 1.380 1.406 1.322 1.291 1.361 1.375  1.314    5.66
 93)  1,3,5-TRIMETHYLBENZENE
           1.057 1.125 0.973 1.053 1.143 1.172 1.092 1.064 1.125 1.132  1.094    5.33
 94)  ALPHA-METHYLSTYRENE
           0.465 0.531 0.443 0.509 0.582 0.598 0.561 0.553 0.589 0.593  0.542   10.10
 95)  TERT-BUTYLBENZENE
           0.292 0.271 0.234 0.266 0.276 0.283 0.259 0.253 0.265 0.267  0.267    5.99
 96)  1,2,4-TRIMETHYLBENZENE
           0.993 1.060 0.975 1.056 1.151 1.185 1.098 1.068 1.127 1.130  1.084    6.19
 97)  BENZYL CHLORIDE
           0.665 0.680 0.609 0.685 0.934 1.021 0.987 1.003 1.077 1.097  0.876   21.94
 98)  M-DICHLOROBENZENE
           0.778 0.747 0.669 0.727 0.770 0.792 0.735 0.716 0.754 0.761  0.745    4.75
 99)  P-DICHLOROBENZENE
           0.732 0.753 0.673 0.715 0.761 0.780 0.725 0.704 0.746 0.752  0.734    4.23
100)  O-DICHLOROBENZENE
           0.638 0.739 0.634 0.684 0.718 0.733 0.678 0.665 0.706 0.715  0.691    5.41
101)  SEC-BUTYLBENZENE
           0.279 0.343 0.289 0.319 0.333 0.341 0.317 0.306 0.323 0.325  0.318    6.61
102)  1,2,3-TRIMETHYLBENZENE
           1.078 1.094 0.958 1.060 1.137 1.163 1.076 1.057 1.118 1.129  1.087    5.28
103)  P-ISOPROPYLTOLUENE
           0.330 0.354 0.319 0.351 0.372 0.383 0.354 0.342 0.361 0.363  0.353    5.38
104)  N-BUTYLBENZENE
           0.300 0.310 0.302 0.317 0.357 0.368 0.345 0.340 0.362 0.364  0.336    7.99
105)  HEXACHLOROETHANE
           0.381 0.371 0.330 0.367 0.438 0.457 0.435 0.435 0.462 0.468  0.415   11.60
106)  HEXACHLOROBUTADIENE
           0.478 0.495 0.442 0.464 0.483 0.503 0.482 0.495 0.533 0.542  0.491    6.07
107)  1,2,4-TRICHLOROBENZENE
           0.484 0.469 0.444 0.485 0.601 0.648 0.626 0.653 0.724 0.760  0.589   19.07
108)  NAPHTHALENE
           1.002 1.026 0.865 1.011 1.370 1.508 1.466 1.522 1.680 1.773  1.322   24.25

109) I   BROMOCHLOROMETHANE (A ----------------ISTD----------------------
110)  TVHC as equiv Pentane
                      7.365 7.136 5.390 5.515 5.122 4.738 5.018 4.871  5.644   18.16
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M7W577.M          Fri Aug 08 16:10:30 2025
```

Initial Calibration Verification

Job Number: JE23789 **Sample:** V7W577-ICV577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W16597.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\7w16597.D Vial: 5
Acq On : 7 Aug 2025 6:07 pm Operator: benk
Sample : icv577-10 Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	0.00	3.19
2	T	FREON 115	1.213	1.246	-2.7	95	0.00	1.58
3	T	FREON 152A	0.626	0.611	2.4	97	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.285	-4.8	100	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.329	-1.7	95	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.616	-9.2	102	0.00	1.65
7	T	PROPYLENE	0.810	0.788	2.7	97	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.153	-1.0	94	0.00	1.68
9	T	FREON 114	2.469	2.694	-9.1	101	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.350	-2.0	102	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.267	-4.2	99	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.982	-2.2	99	0.00	1.79
13	T	N-BUTANE	1.625	1.681	-3.4	99	0.00	1.80
14	T	BROMOMETHANE	0.943	0.998	-5.8	103	0.00	1.86
15	T	CHLOROETHANE	0.660	0.669	-1.4	99	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.479	-8.4	103	0.00	1.93
17	T	ACETONITRILE	1.136	1.096	3.5	103	0.00	2.00
18	T	ACROLEIN	0.540	0.545	-0.9	99	0.00	2.04
19	T	FREON 123	2.303	2.334	-1.3	94	0.00	2.05
20	T	FREON 123A	1.364	1.283	5.9	89	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.842	-9.3	101	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.550	-15.7	109	0.00	2.14
23	T	ACETONE	0.603	0.625	-3.6	97	0.00	2.07
24	T	PENTANE	1.194	1.175	1.6	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.479	-3.6	96	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	1.009	-1.8	97	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.756	2.0	91	0.00	2.46
28	T	ETHANOL	0.587	0.617	-5.1	103	0.00	1.93
29	T	BROMOETHENE	0.947	0.979	-3.4	96	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.867	-2.4	97	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.978	-0.6	99	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.547	-3.2	97	0.00	2.41
33	T	FREON 113	1.493	1.611	-7.9	99	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	1.105	-1.3	96	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	3.094	-12.3	109	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	3.270	-5.4	100	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.589	-17.1	108	0.00	3.47
38	T	HEXANE	2.090	2.121	-1.5	98	0.00	3.24
39	T	VINYL ACETATE	0.298	0.316	-6.0	99	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.238	-6.1	99	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.578	-1.4	99	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.188	-4.9	100	0.00	3.12

Initial Calibration Verification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Sample: V7W577-ICV577
Lab FileID: 7W16597.D

43	T	DIISOPROPYL ETHER	0.593	0.628	-5.9	101	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.405	-1.0	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.624	-3.8	98	0.00	3.24
46	T	CHLOROFORM	2.183	2.360	-8.1	100	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.482	-6.1	100	0.00	3.74
48	T	1,1,1-TRICHLOROETHANE	2.300	2.477	-7.7	100	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.593	-8.8	98	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.858	-9.5	100	0.00	3.66
51	t	BENZENE	3.348	3.478	-3.9	100	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.313	-6.8	100	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.159	-8.9	100	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.328	-5.1	99	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.290	-5.1	99	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.267	-0.4	98	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.656	-6.3	99	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.555	-10.1	101	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.381	-2.3	100	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.175	-18.2	106	0.00	5.02
62	T	HEPTANE	0.446	0.460	-3.1	99	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.270	-7.6	101	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.277	-3.7	101	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.423	0.0	91	0.00	5.94
66	T	TOLUENE	0.794	0.843	-6.2	100	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.426	-7.0	98	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.415	-8.6	96	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.247	-9.3	99	0.00	6.77
70	T	2-HEXANONE	0.373	0.368	1.3	103	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.451	-7.9	99	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.309	-6.6	99	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.523	-13.7	101	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.437	-6.8	98	0.00	8.00
75	T	OCTANE	0.597	0.635	-6.4	100	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.398	-10.9	99	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.728	-6.6	99	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.197	-7.0	99	0.00	10.92
80	t	M,P-XYLENE	0.907	0.962	-6.1	99	0.00	11.35
81	t	O-XYLENE	0.880	0.951	-8.1	100	0.00	12.28
82	T	STYRENE	0.660	0.702	-6.4	94	0.00	12.07
83	T	NONANE	0.685	0.720	-5.1	98	0.00	13.40
84	T	BROMOFORM	0.422	0.500	-18.5	103	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.683	-8.4	98	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.538	-8.9	98	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.816	-1.4	98	0.00	13.32
88	T	ISOPROPYLBENZENE	0.335	0.363	-8.4	99	0.00	13.79
89	T	BROMOBENZENE	0.643	0.682	-6.1	99	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.338	-8.3	98	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.388	-9.3	98	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.399	-6.5	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.162	-6.2	97	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.522	3.7	85	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.280	-4.9	97	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.161	-7.1	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.883	-0.8	85	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.774	-3.9	96	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.756	-3.0	95	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.724	-4.8	97	0.00	16.99

Initial Calibration Verification

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY
Sample: V7W577-ICV577
Lab FileID: 7W16597.D

101	T	SEC-BUTYLBENZENE	0.318	0.341	-7.2	98	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.159	-6.6	98	0.00	16.94
103	T	P-ISOPROPYLTOLUENE	0.353	0.382	-8.2	98	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.361	-7.4	96	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	88	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.473	3.7	92	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.619	-5.1	94	0.00	18.31
108	T	NAPHTHALENE	1.322	1.417	-7.2	92	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	98	0.00	3.19
110		TVHC as equiv Pentane	5.644	5.524	2.1	98	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Fri Aug 08 16:10:52 2025

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17473.D Vial: 2
Acq On : 26 Sep 2025 11:04 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	105	0.00	3.19
2	T	FREON 115	1.213	1.348	-11.1	110	0.00	1.58
3	T	FREON 152A	0.626	0.642	-2.6	109	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.271	0.4	102	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.425	-9.0	109	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.356	1.6	99	0.00	1.65
7	T	PROPYLENE	0.810	0.774	4.4	103	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.002	6.1	94	0.00	1.69
9	T	FREON 114	2.469	2.380	3.6	96	0.00	1.72
10	T	CHLOROMETHANE	0.343	0.267	22.2	83	0.00	1.69
11	T	VINYL CHLORIDE	1.216	0.990	18.6	83	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.789	17.9	85	0.00	1.79
13	T	N-BUTANE	1.625	1.307	19.6	83	0.00	1.80
14	T	BROMOMETHANE	0.943	0.881	6.6	97	0.00	1.86
15	T	CHLOROETHANE	0.660	0.558	15.5	89	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.107	7.8	94	0.00	1.93
17	T	ACETONITRILE	1.136	0.823	27.6	83	0.00	2.00
18	T	ACROLEIN	0.540	0.421	22.0	82	0.00	2.04
19	T	FREON 123	2.303	2.179	5.4	95	0.00	2.05
20	T	FREON 123A	1.364	1.343	1.5	100	0.00	2.07
21	T	TRICHLOROFLUOROMETHANE	2.601	2.684	-3.2	102	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	1.930	12.4	89	0.00	2.14
23	T	ACETONE	0.603	0.508	15.8	84	0.00	2.07
24	T	PENTANE	1.194	0.971	18.7	86	0.00	2.24
25	T	IODOMETHANE	2.393	2.426	-1.4	101	0.00	2.31
26	T	1,1-DICHLOROETHYLENE	0.991	0.912	8.0	94	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.397	14.8	85	0.00	2.47
28	T	ETHANOL	0.587	0.528	10.1	95	0.00	1.94
29	T	BROMOETHENE	0.947	0.914	3.5	97	0.00	2.01
30	T	ACRYLONITRILE	0.847	0.728	14.0	87	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.847	12.9	92	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.448	15.5	85	0.00	2.41
33	T	FREON 113	1.493	1.560	-4.5	103	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.923	15.4	86	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.016	26.8	76	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.792	10.0	92	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.482	4.2	95	0.00	3.47
38	T	HEXANE	2.090	1.901	9.0	94	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	96	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.002	5.1	95	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.523	8.2	96	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.098	3.0	99	0.00	3.12

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.522	12.0	90	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.378	5.7	92	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.289	9.5	92	0.00	3.24
46	T	CHLOROFORM	2.183	2.158	1.1	98	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.161	7.6	94	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.281	0.8	99	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.508	-5.2	102	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.592	6.2	92	0.00	3.66
51	t	BENZENE	3.348	3.151	5.9	97	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	103	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.289	1.4	97	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.145	0.7	96	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.315	-1.0	99	0.00	5.02
56	T	1,2-DICHLOROPROPANE	0.276	0.263	4.7	94	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.320	-20.3	124	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.576	6.6	91	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.523	-3.8	99	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.242	8.0	94	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.149	-0.7	95	0.00	5.03
62	T	HEPTANE	0.446	0.408	8.5	92	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.241	4.0	95	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.235	12.0	90	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.419	0.9	94	0.00	5.94
66	T	TOLUENE	0.794	0.782	1.5	97	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.402	-1.0	96	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.381	0.3	92	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.231	-2.2	97	0.00	6.77
70	T	2-HEXANONE	0.373	0.308	17.4	90	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.403	3.6	92	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.348	-20.0	117	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.519	-12.8	105	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.417	-2.0	98	0.00	8.00
75	T	OCTANE	0.597	0.552	7.5	91	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	102	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.371	-3.3	96	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.688	-0.7	97	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.127	-0.7	97	0.00	10.92
80	t	M,P-XYLENE	0.907	0.908	-0.1	97	0.00	11.35
81	t	O-XYLENE	0.880	0.887	-0.8	97	0.00	12.28
82	T	STYRENE	0.660	0.689	-4.4	96	0.00	12.07
83	T	NONANE	0.685	0.636	7.2	90	0.00	13.40
84	T	BROMOFORM	0.422	0.614	-45.5#	132	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.627	0.5	94	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.496	-0.4	94	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.806	-0.1	101	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.334	0.3	95	0.00	13.78
89	T	BROMOBENZENE	0.643	0.623	3.1	94	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.322	-3.2	97	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.367	-3.4	96	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.345	-2.4	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.126	-2.9	98	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.560	-3.3	95	0.00	16.18
95	T	TERT-BUTYLBENZENE	0.267	0.251	6.0	90	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.121	-3.4	96	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.818	6.6	82	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.758	-1.7	98	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.743	-1.2	97	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.700	-1.3	97	0.00	16.99

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W613-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17473.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.304	4.4	91	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.099	-1.1	96	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.342	3.1	91	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.332	1.2	92	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.440	-6.0	98	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.799	-62.7#	162#	-0.01	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.817	-38.7#	129	0.00	18.31
108	T	NAPHTHALENE	1.322	1.545	-16.9	104	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	105	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.772	15.5	91	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Sep 29 17:09:51 2025

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17801.D Vial: 1
Acq On : 13 Oct 2025 11:18 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	121	0.00	3.19
2	T	FREON 115	1.213	1.274	-5.0	120	0.00	1.58
3	T	FREON 152A	0.626	0.645	-3.0	127	0.00	1.60
4	T	CHLORODIFLUOROMETHANE	0.272	0.278	-2.2	120	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.370	-4.8	121	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.379	0.7	115	0.00	1.64
7	T	PROPYLENE	0.810	0.764	5.7	117	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.069	2.9	112	0.00	1.68
9	T	FREON 114	2.469	2.336	5.4	108	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.270	21.3	97	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.018	16.3	98	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.790	17.8	99	0.00	1.78
13	T	N-BUTANE	1.625	1.323	18.6	97	0.00	1.80
14	T	BROMOMETHANE	0.943	0.867	8.1	110	0.00	1.86
15	T	CHLOROETHANE	0.660	0.566	14.2	103	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.179	4.7	112	0.00	1.93
17	T	ACETONITRILE	1.136	0.822	27.6	96	0.00	2.00
18	T	ACROLEIN	0.540	0.416	23.0	93	0.00	2.03
19	T	FREON 123	2.303	2.148	6.7	107	0.00	2.05
20	T	FREON 123A	1.364	1.338	1.9	114	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.670	-2.7	117	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.103	4.6	111	0.00	2.14
23	T	ACETONE	0.603	0.521	13.6	100	0.00	2.07
24	T	PENTANE	1.194	0.947	20.7	97	0.00	2.24
25	T	IODOMETHANE	2.393	2.395	-0.1	115	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.920	7.2	109	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.401	14.6	98	0.00	2.46
28	T	ETHANOL	0.587	0.454	22.7	94	0.00	1.94
29	T	BROMOETHENE	0.947	0.905	4.4	110	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.718	15.2	99	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.841	13.5	105	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.452	14.7	99	0.00	2.41
33	T	FREON 113	1.493	1.561	-4.6	119	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.918	15.9	99	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.179	20.9	95	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.838	8.5	107	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.476	5.4	108	0.00	3.47
38	T	HEXANE	2.090	1.897	9.2	108	0.00	3.24
39	T	VINYL ACETATE	0.298	0.284	4.7	110	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	1.925	8.7	105	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.507	11.1	107	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	1.078	4.8	112	0.00	3.12

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.536	9.6	106	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.385	4.0	108	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.343	7.4	108	0.00	3.23
46	T	CHLOROFORM	2.183	2.141	1.9	112	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.186	6.5	109	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.290	0.4	115	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.499	-4.9	117	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.640	3.4	109	0.00	3.66
51	t	BENZENE	3.348	3.068	8.4	109	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	119	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.280	4.4	108	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.142	2.7	108	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.307	1.6	112	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.267	3.3	110	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.321	-20.7	143#	0.00	4.75
58	T	ETHYL ACRYLATE	0.617	0.588	4.7	107	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.515	-2.2	113	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.250	7.4	109	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.151	-2.0	111	0.00	5.03
62	T	HEPTANE	0.446	0.407	8.7	106	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.239	4.8	108	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.242	9.4	107	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.417	1.4	108	0.00	5.94
66	T	TOLUENE	0.794	0.769	3.1	110	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.390	2.0	108	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.387	-1.3	108	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.227	-0.4	110	0.00	6.77
70	T	2-HEXANONE	0.373	0.318	14.7	107	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.401	4.1	106	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.356	-22.8	138	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.515	-12.0	120	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.414	-1.2	112	0.00	8.00
75	T	OCTANE	0.597	0.550	7.9	105	0.00	9.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00	9.96
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.361	-0.6	111	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.661	3.2	111	0.00	10.05
79	t	ETHYLBENZENE	1.119	1.091	2.5	111	0.00	10.92
80	t	M,P-XYLENE	0.907	0.883	2.6	112	0.00	11.35
81	t	O-XYLENE	0.880	0.862	2.0	111	0.00	12.27
82	T	STYRENE	0.660	0.663	-0.5	110	0.00	12.07
83	T	NONANE	0.685	0.617	9.9	104	0.00	13.40
84	T	BROMOFORM	0.422	0.611	-44.8#	155#	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.611	3.0	108	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.484	2.0	109	0.00	12.58
87	S	4-BROMOFLUOROBENZENE	0.805	0.817	-1.5	121	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.323	3.6	109	0.00	13.79
89	T	BROMOBENZENE	0.643	0.604	6.1	107	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.309	1.0	110	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.352	0.8	109	0.00	15.13
92	T	4-ETHYLTOLUENE	1.314	1.312	0.2	113	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.087	0.6	112	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.540	0.4	109	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.237	11.2	101	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.091	-0.6	111	0.00	16.51
97	T	BENZYL CHLORIDE	0.876	0.828	5.5	98	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.733	1.6	112	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.718	2.2	111	0.00	16.67
100	T	O-DICHLOROBENZENE	0.691	0.682	1.3	112	0.00	16.99

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W624-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W17801.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.294	7.5	104	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.068	1.7	111	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.328	7.1	103	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.317	5.7	104	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.411	1.0	108	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.775	-57.8#	186#	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.781	-32.6#	145#	-0.01	18.31
108	T	NAPHTHALENE	1.322	1.446	-9.4	116	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	121	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.664	17.4	102	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Mon Oct 13 21:33:39 2025

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W647-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18504.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ge...2025\V7W647\7w18504.D Vial: 1
Acq On : 12 Nov 2025 11:33 am Operator: thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	109	0.00	3.19
2	T	FREON 115	1.213	1.359	-12.0	115	0.00	1.58
3	T	FREON 152A	0.626	0.610	2.6	108	0.00	1.60
4	T	CHLORODIFLUOROMETHANE	0.272	0.279	-2.6	109	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.413	-8.1	113	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.512	-4.9	110	0.00	1.64
7	T	PROPYLENE	0.810	0.798	1.5	110	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.333	-9.5	114	0.00	1.68
9	T	FREON 114	2.469	2.361	4.4	99	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.345	-0.6	112	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.149	5.5	100	0.00	1.75
12	t	1,3-BUTADIENE	0.961	1.002	-4.3	113	0.00	1.78
13	T	N-BUTANE	1.625	1.574	3.1	104	0.00	1.80
14	T	BROMOMETHANE	0.943	0.847	10.2	97	0.00	1.86
15	T	CHLOROETHANE	0.660	0.600	9.1	99	0.00	1.91
16	T	DICHLOROFLUOROMETHANE	2.286	2.146	6.1	99	0.00	1.93
17	T	ACETONITRILE	1.136	0.966	15.0	102	0.00	2.00
18	T	ACROLEIN	0.540	0.544	-0.7	110	0.00	2.03
19	T	FREON 123	2.303	1.999	13.2	90	0.00	2.05
20	T	FREON 123A	1.364	1.476	-8.2	114	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	2.956	-13.6	117	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.272	-3.1	109	0.00	2.14
23	T	ACETONE	0.603	0.629	-4.3	109	0.00	2.07
24	T	PENTANE	1.194	1.136	4.9	105	0.00	2.24
25	T	IODOMETHANE	2.393	2.597	-8.5	112	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.886	10.6	95	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.201	21.8	81	0.00	2.46
28	T	ETHANOL	0.587	0.557	5.1	104	0.00	1.93
29	T	BROMOETHENE	0.947	0.936	1.2	103	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.933	-10.2	116	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.764	21.4	86	0.00	2.37
32	T	3-CHLOROPROPENE	0.530	0.405	23.6	80	0.00	2.41
33	T	FREON 113	1.493	1.625	-8.8	111	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.902	17.3	88	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.407	12.6	94	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.421	22.0	83	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.397	21.1	81	0.00	3.47
38	T	HEXANE	2.090	2.104	-0.7	108	0.00	3.24
39	T	VINYL ACETATE	0.298	0.238	20.1	83	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.036	3.5	100	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.419	26.5	80	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	0.962	15.0	90	0.00	3.12

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W647-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18504.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.580	2.2	104	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.396	1.2	101	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.648	-4.7	110	0.00	3.24
46	T	CHLOROFORM	2.183	1.965	10.0	93	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.401	-2.7	109	0.00	3.75
48	T	1,1,1-TRICHLOROETHANE	2.300	2.238	2.7	101	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.704	-13.5	114	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.749	-3.1	105	0.00	3.66
51	t	BENZENE	3.348	2.534	24.3	82	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.248	15.4	81	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.122	16.4	79	0.00	4.59
55	T	TRICHLOROETHENE	0.312	0.300	3.8	92	0.00	5.02
56	T	1,2-DICHLOROPROPANE	0.276	0.274	0.7	96	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.282	-6.0	106	0.00	4.75
58	T	ETHYL ACRYLATE	0.617	0.705	-14.3	108	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.512	-1.6	95	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.463	-8.4	108	0.00	5.11
61	T	1,4-DIOXANE	0.148	0.139	6.1	86	0.00	5.03
62	T	HEPTANE	0.446	0.463	-3.8	102	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.211	15.9	81	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.280	-4.9	105	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.378	10.6	83	0.00	5.94
66	T	TOLUENE	0.794	0.723	8.9	88	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.355	10.8	83	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.364	4.7	86	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.203	10.2	83	0.00	6.76
70	T	2-HEXANONE	0.373	0.363	2.7	104	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.357	14.6	80	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.328	-13.1	108	0.00	8.85
73	T	DIBROMOCHLOROMETHANE	0.460	0.568	-23.5	112	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.422	-3.2	97	0.00	7.99
75	T	OCTANE	0.597	0.627	-5.0	101	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	106	0.00	9.97
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.398	-10.9	107	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.643	5.9	94	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.009	9.8	90	0.00	10.92
80	t	M,P-XYLENE	0.907	0.821	9.5	91	0.00	11.35
81	t	O-XYLENE	0.880	0.810	8.0	92	0.00	12.28
82	T	STYRENE	0.660	0.639	3.2	93	0.00	12.07
83	T	NONANE	0.685	0.683	0.3	101	0.00	13.40
84	T	BROMOFORM	0.422	0.519	-23.0	115	0.00	11.15
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.533	15.4	83	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.433	12.3	86	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.729	9.4	95	0.00	13.32
88	T	ISOPROPYLBENZENE	0.335	0.335	0.0	99	0.00	13.79
89	T	BROMOBENZENE	0.643	0.542	15.7	85	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.323	-3.5	101	0.00	14.78
91	T	N-PROPYLBENZENE	0.355	0.366	-3.1	100	0.00	15.13
92	T	4-ETHYLTOLUENE	1.314	1.289	1.9	97	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.088	0.5	98	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.564	-4.1	100	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.268	-0.4	100	0.00	16.49
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.100	-1.5	98	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.804	8.2	83	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.779	-4.6	104	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.774	-5.4	105	0.00	16.66
100	T	O-DICHLOROBENZENE	0.691	0.726	-5.1	105	0.00	16.99

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W647-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18504.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.325	-2.2	101	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.086	0.1	99	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.364	-3.1	100	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.357	-6.2	103	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.447	-7.7	103	0.00	17.56
106	T	HEXACHLOROBUTADIENE	0.491	0.523	-6.5	110	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.638	-8.3	104	-0.01	18.31
108	T	NAPHTHALENE	1.322	1.570	-18.8	110	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	109	0.00	3.19
110		TVHC as equiv Pentane	5.644	5.438	3.6	108	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Thu Nov 13 17:16:23 2025

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W655-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18765.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...2025\V7W655\7w18765.D Vial: 1
Acq On : 24 Nov 2025 9:52 am Operator: williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	110	0.00	3.19
2	T	FREON 115	1.213	1.289	-6.3	110	0.00	1.58
3	T	FREON 152A	0.626	0.524	16.3	93	0.00	1.61
4	T	CHLORODIFLUOROMETHANE	0.272	0.267	1.8	105	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.343	-2.8	108	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.604	-8.7	114	0.00	1.64
7	T	PROPYLENE	0.810	0.602	25.7	84	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.409	-13.0	119	0.00	1.68
9	T	FREON 114	2.469	2.415	2.2	102	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.314	8.5	102	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.158	4.8	102	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.925	3.7	105	0.00	1.79
13	T	N-BUTANE	1.625	1.354	16.7	90	0.00	1.80
14	T	BROMOMETHANE	0.943	0.934	1.0	108	0.00	1.86
15	T	CHLOROETHANE	0.660	0.597	9.5	99	0.00	1.90
16	T	DICHLOROFLUOROMETHANE	2.286	2.265	0.9	105	0.00	1.93
17	T	ACETONITRILE	1.136	0.891	21.6	94	0.00	1.99
18	T	ACROLEIN	0.540	0.529	2.0	107	0.00	2.03
19	T	FREON 123	2.303	2.164	6.0	98	0.00	2.05
20	T	FREON 123A	1.364	1.605	-17.7	124	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	3.160	-21.5	126	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	2.254	-2.3	109	0.00	2.14
23	T	ACETONE	0.603	0.634	-5.1	110	0.00	2.07
24	T	PENTANE	1.194	1.035	13.3	96	0.00	2.24
25	T	IODOMETHANE	2.393	2.697	-12.7	117	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.989	0.2	106	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.433	13.5	90	0.00	2.46
28	T	ETHANOL	0.587	0.510	13.1	96	0.00	1.93
29	T	BROMOETHENE	0.947	0.988	-4.3	109	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.887	-4.7	111	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.850	12.6	96	0.00	2.36
32	T	3-CHLOROPROPENE	0.530	0.441	16.8	88	0.00	2.41
33	T	FREON 113	1.493	1.705	-14.2	118	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	1.018	6.7	99	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.501	9.2	99	0.00	2.33
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.555	17.7	88	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.377	25.0	77	0.00	3.47
38	T	HEXANE	2.090	1.806	13.6	94	0.00	3.24
39	T	VINYL ACETATE	0.298	0.228	23.5	81	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	2.079	1.4	103	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.406	28.8	78	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	0.955	15.6	90	0.00	3.11

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W655-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18765.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.510	14.0	92	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.346	13.7	88	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.184	13.6	91	0.00	3.24
46	T	CHLOROFORM	2.183	1.980	9.3	94	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.059	12.0	94	0.00	3.74
48	T	1,1,1-TRICHLOROETHANE	2.300	2.349	-2.1	107	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.709	-13.7	115	0.00	4.24
50	T	1,2-DICHLOROETHANE	1.697	1.671	1.5	101	0.00	3.66
51	t	BENZENE	3.348	2.442	27.1	79	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	104	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.236	19.5	80	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.112	23.3	75	0.00	4.58
55	T	TRICHLOROETHENE	0.312	0.298	4.5	95	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.239	13.4	86	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.274	-3.0	107	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.568	7.9	90	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.499	1.0	96	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.212	10.2	92	0.00	5.10
61	T	1,4-DIOXANE	0.148	0.125	15.5	80	0.00	5.02
62	T	HEPTANE	0.446	0.361	19.1	82	0.00	5.42
63	T	METHYL METHACRYLATE	0.251	0.196	21.9	78	0.00	5.31
64	T	METHYL ISOBUTYL KETONE	0.267	0.231	13.5	89	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.364	13.9	83	0.00	5.94
66	T	TOLUENE	0.794	0.710	10.6	89	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.341	14.3	83	0.00	7.19
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.353	7.6	86	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.193	14.6	82	0.00	6.77
70	T	2-HEXANONE	0.373	0.303	18.8	89	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.335	19.9	77	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.325	-12.1	111	0.00	8.84
73	T	DIBROMOCHLOROMETHANE	0.460	0.559	-21.5	114	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.404	1.2	96	0.00	8.00
75	T	OCTANE	0.597	0.485	18.8	81	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	106	0.00	9.96
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.395	-10.0	106	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.666	2.5	98	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.013	9.5	90	0.00	10.92
80	t	M,P-XYLENE	0.907	0.845	6.8	94	0.00	11.35
81	t	O-XYLENE	0.880	0.831	5.6	94	0.00	12.27
82	T	STYRENE	0.660	0.619	6.2	90	0.00	12.06
83	T	NONANE	0.685	0.549	19.9	81	0.00	13.40
84	T	BROMOFORM	0.422	0.515	-22.0	115	0.00	11.16
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.527	16.3	82	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.428	13.4	85	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.760	5.6	99	0.00	13.32
88	T	ISOPROPYLBENZENE	0.335	0.334	0.3	99	0.00	13.78
89	T	BROMOBENZENE	0.643	0.539	16.2	84	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.319	-2.2	100	0.00	14.77
91	T	N-PROPYLBENZENE	0.355	0.364	-2.5	99	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.272	3.2	96	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.082	1.1	98	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.558	-3.0	99	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.259	3.0	97	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.116	-3.0	100	0.00	16.51
97	T	BENZYL CHLORIDE	0.876	0.841	4.0	87	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.773	-3.8	103	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.763	-4.0	104	0.00	16.66
100	T	O-DICHLOROBENZENE	0.691	0.718	-3.9	104	0.00	16.98

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W655-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18765.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.314	1.3	98	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.093	-0.6	99	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.354	-0.3	98	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.345	-2.7	99	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.426	-2.7	99	0.00	17.55
106	T	HEXACHLOROBUTADIENE	0.491	0.534	-8.8	112	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.661	-12.2	108	-0.02	18.31
108	T	NAPHTHALENE	1.322	1.630	-23.3	114	-0.01	18.35
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	110	0.00	3.19
110		TVHC as equiv Pentane	5.644	5.233	7.3	104	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Wed Nov 26 01:55:42 2025

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W656-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18798.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\C...2025\V7W656\7w18798.D Vial: 1
Acq On : 25 Nov 2025 10:39 am Operator: williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w656,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 08 16:08:21 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	104	0.00	3.19
2	T	FREON 115	1.213	1.334	-10.0	107	0.00	1.58
3	T	FREON 152A	0.626	0.545	12.9	92	0.00	1.60
4	T	CHLORODIFLUOROMETHANE	0.272	0.283	-4.0	105	0.00	1.62
5	T	CHLOROTRIFLUOROETHENE	1.307	1.361	-4.1	103	0.00	1.63
6	T	DICHLORODIFLUOROMETHANE	2.395	2.523	-5.3	104	0.00	1.64
7	T	PROPYLENE	0.810	0.665	17.9	87	0.00	1.63
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.131	2.293	-7.6	106	0.00	1.68
9	T	FREON 114	2.469	2.309	6.5	92	0.00	1.71
10	T	CHLOROMETHANE	0.343	0.272	20.7	84	0.00	1.69
11	T	VINYL CHLORIDE	1.216	1.071	11.9	89	0.00	1.75
12	t	1,3-BUTADIENE	0.961	0.821	14.6	88	0.00	1.78
13	T	N-BUTANE	1.625	1.176	27.6	74	0.00	1.80
14	T	BROMOMETHANE	0.943	0.888	5.8	97	0.00	1.86
15	T	CHLOROETHANE	0.660	0.561	15.0	88	0.00	1.90
16	T	DICHLOROFLUOROMETHANE	2.286	2.134	6.6	94	0.00	1.93
17	T	ACETONITRILE	1.136	0.706	37.9#	70	0.00	1.99
18	T	ACROLEIN	0.540	0.449	16.9	86	0.00	2.03
19	T	FREON 123	2.303	2.056	10.7	88	0.00	2.05
20	T	FREON 123A	1.364	1.539	-12.8	112	0.00	2.06
21	T	TRICHLOROFLUOROMETHANE	2.601	3.005	-15.5	113	0.00	2.13
22	T	ISOPROPYL ALCOHOL	2.204	1.799	18.4	82	0.00	2.14
23	T	ACETONE	0.603	0.545	9.6	89	0.00	2.07
24	T	PENTANE	1.194	0.847	29.1	74	0.00	2.24
25	T	IODOMETHANE	2.393	2.624	-9.7	108	0.00	2.30
26	T	1,1-DICHLOROETHYLENE	0.991	0.934	5.8	95	0.00	2.33
27	T	CARBON DISULFIDE	2.813	2.266	19.4	79	0.00	2.46
28	T	ETHANOL	0.587	0.439	25.2	78	0.00	1.93
29	T	BROMOETHENE	0.947	0.948	-0.1	99	0.00	2.00
30	T	ACRYLONITRILE	0.847	0.732	13.6	86	0.00	2.21
31	T	METHYLENE CHLORIDE	0.972	0.800	17.7	85	0.00	2.36
32	T	3-CHLOROPROPENE	0.530	0.417	21.3	78	0.00	2.41
33	T	FREON 113	1.493	1.665	-11.5	108	0.00	2.46
34	T	TRANS-1,2-DICHLOROETHENE	1.091	0.987	9.5	91	0.00	2.69
35	T	TERTIARY BUTYL ALCOHOL	2.754	2.215	19.6	82	0.00	2.34
36	t	METHYL TERTIARY BUTYL ETH	3.103	2.480	20.1	80	0.00	2.79
37	T	TETRAHYDROFURAN	0.503	0.369	26.6	72	0.00	3.47
38	T	HEXANE	2.090	1.934	7.5	95	0.00	3.24
39	T	VINYL ACETATE	0.298	0.222	25.5	74	0.00	2.83
40	T	1,1-DICHLOROETHANE	2.109	1.934	8.3	90	0.00	2.76
41	T	METHYL ETHYL KETONE	0.570	0.410	28.1	74	0.00	2.92
42	T	CIS-1,2-DICHLOROETHENE	1.132	0.974	14.0	86	0.00	3.11

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W656-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18798.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

43	T	DIISOPROPYL ETHER	0.593	0.535	9.8	91	0.00	3.24
44	T	ETHYL ACETATE	0.401	0.365	9.0	88	0.00	3.25
45	T	METHYL ACRYLATE	2.529	2.408	4.8	95	0.00	3.23
46	T	CHLOROFORM	2.183	2.045	6.3	91	0.00	3.26
47	T	2,4-DIMETHYLPENTANE	2.339	2.161	7.6	93	0.00	3.74
48	T	1,1,1-TRICHLOROETHANE	2.300	2.421	-5.3	104	0.00	3.82
49	T	CARBON TETRACHLORIDE	2.383	2.734	-14.7	110	0.00	4.23
50	T	1,2-DICHLOROETHANE	1.697	1.784	-5.1	101	0.00	3.66
51	t	BENZENE	3.348	2.437	27.2	74	0.00	4.13
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	95	0.00	4.45
53	T	CYCLOHEXANE	0.293	0.234	20.1	73	0.00	4.33
54	T	2,3-DIMETHYLPENTANE	0.146	0.113	22.6	69	0.00	4.58
55	T	TRICHLOROETHENE	0.312	0.297	4.8	87	0.00	5.01
56	T	1,2-DICHLOROPROPANE	0.276	0.237	14.1	79	0.00	4.78
57	T	DIBROMOMETHANE	0.266	0.275	-3.4	98	0.00	4.74
58	T	ETHYL ACRYLATE	0.617	0.567	8.1	83	0.00	4.90
59	T	BROMODICHLOROMETHANE	0.504	0.506	-0.4	89	0.00	4.96
60	T	2,2,4-TRIMETHYLPENTANE	1.350	1.203	10.9	84	0.00	5.10
61	T	1,4-DIOXANE	0.148	0.126	14.9	74	0.00	5.03
62	T	HEPTANE	0.446	0.353	20.9	74	0.00	5.41
63	T	METHYL METHACRYLATE	0.251	0.192	23.5	70	0.00	5.32
64	T	METHYL ISOBUTYL KETONE	0.267	0.230	13.9	82	0.00	6.04
65	T	CIS-1,3-DICHLOROPROPENE	0.423	0.360	14.9	75	0.00	5.94
66	T	TOLUENE	0.794	0.697	12.2	80	0.00	7.13
67	T	1,3-DICHLOROPROPANE	0.398	0.339	14.8	75	0.00	7.18
68	T	TRANS-1,3-DICHLOROPROPENE	0.382	0.349	8.6	78	0.00	6.61
69	T	1,1,2-TRICHLOROETHANE	0.226	0.194	14.2	75	0.00	6.77
70	T	2-HEXANONE	0.373	0.299	19.8	81	0.00	7.69
71	T	ETHYL METHACRYLATE	0.418	0.329	21.3	70	0.00	7.83
72	T	TETRACHLOROETHENE	0.290	0.319	-10.0	100	0.00	8.84
73	T	DIBROMOCHLOROMETHANE	0.460	0.559	-21.5	104	0.00	7.66
74	T	1,2-DIBROMOETHANE	0.409	0.407	0.5	89	0.00	7.99
75	T	OCTANE	0.597	0.479	19.8	73	0.00	8.99
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	96	0.00	9.96
77	T	1,1,1,2-TETRACHLOROETHANE	0.359	0.405	-12.8	98	0.00	10.05
78	T	CHLOROBENZENE	0.683	0.679	0.6	90	0.00	10.04
79	t	ETHYLBENZENE	1.119	1.039	7.1	84	0.00	10.92
80	t	M,P-XYLENE	0.907	0.859	5.3	86	0.00	11.35
81	t	O-XYLENE	0.880	0.851	3.3	87	0.00	12.28
82	T	STYRENE	0.660	0.630	4.5	83	0.00	12.06
83	T	NONANE	0.685	0.557	18.7	74	0.00	13.40
84	T	BROMOFORM	0.422	0.524	-24.2	105	0.00	11.15
85	T	1,1,2,2-TETRACHLOROETHANE	0.630	0.535	15.1	75	0.00	12.29
86	T	1,2,3-TRICHLOROPROPANE	0.494	0.445	9.9	80	0.00	12.57
87	S	4-BROMOFLUOROBENZENE	0.805	0.769	4.5	90	0.00	13.31
88	T	ISOPROPYLBENZENE	0.335	0.344	-2.7	92	0.00	13.78
89	T	BROMOBENZENE	0.643	0.554	13.8	78	0.00	13.65
90	T	2-CHLOROTOLUENE	0.312	0.326	-4.5	92	0.00	14.79
91	T	N-PROPYLBENZENE	0.355	0.370	-4.2	91	0.00	15.12
92	T	4-ETHYLTOLUENE	1.314	1.310	0.3	89	0.00	15.57
93	T	1,3,5-TRIMETHYLBENZENE	1.094	1.113	-1.7	91	0.00	15.84
94	T	ALPHA-METHYLSTYRENE	0.542	0.580	-7.0	93	0.00	16.17
95	T	TERT-BUTYLBENZENE	0.267	0.269	-0.7	91	0.00	16.50
96	T	1,2,4-TRIMETHYLBENZENE	1.084	1.164	-7.4	94	0.00	16.50
97	T	BENZYL CHLORIDE	0.876	0.866	1.1	81	0.00	16.60
98	T	M-DICHLOROBENZENE	0.745	0.805	-8.1	97	0.00	16.57
99	T	P-DICHLOROBENZENE	0.734	0.794	-8.2	97	0.00	16.66
100	T	O-DICHLOROBENZENE	0.691	0.747	-8.1	97	0.00	16.99

Continuing Calibration Summary

Job Number: JE23789 **Sample:** V7W656-CC577
Account: GESNYP Groundwater & Environmental Services **Lab FileID:** 7W18798.D
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

101	T	SEC-BUTYLBENZENE	0.318	0.328	-3.1	92	0.00	16.81
102	T	1,2,3-TRIMETHYLBENZENE	1.087	1.136	-4.5	93	0.00	16.93
103	T	P-ISOPROPYLTOLUENE	0.353	0.369	-4.5	92	0.00	17.01
104	T	N-BUTYLBENZENE	0.336	0.356	-6.0	92	0.00	17.38
105	T	HEXACHLOROETHANE	0.415	0.439	-5.8	92	0.00	17.55
106	T	HEXACHLOROBUTADIENE	0.491	0.534	-8.8	102	-0.02	18.62
107	T	1,2,4-TRICHLOROBENZENE	0.589	0.668	-13.4	99	-0.01	18.31
108	T	NAPHTHALENE	1.322	1.646	-24.5	104	-0.01	18.35
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	104	0.00	3.19
110		TVHC as equiv Pentane	5.644	4.278	24.2	80	0.00	2.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w16590.D M7W577.M Thu Nov 27 01:14:58 2025

Run Sequence Report

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2292	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2292-BFB	5W59768.D	11/06/25 21:59	n/a	BFB Tune
V5W2292-IC2292	5W59769.D	11/06/25 22:35	n/a	Initial cal 0.04
V5W2292-IC2292	5W59770.D	11/06/25 23:11	n/a	Initial cal 0.1
V5W2292-IC2292	5W59771.D	11/06/25 23:50	n/a	Initial cal 0.2
V5W2292-IC2292	5W59777.D	11/07/25 03:41	n/a	Initial cal 0.5
V5W2292-IC2292	5W59782.D	11/07/25 06:57	n/a	Initial cal 5
V5W2292-ICC2292	5W59783.D	11/07/25 07:33	n/a	Initial cal 10
V5W2292-IC2292	5W59784.D	11/07/25 08:12	n/a	Initial cal 20
V5W2292-IC2292	5W59785.D	11/07/25 08:54	n/a	Initial cal 40
V5W2292-IC2292	5W59786.D	11/07/25 09:38	n/a	Initial cal 50
V5W2292-IC2292	5W59787.D	11/07/25 10:24	n/a	Initial cal 60
V5W2292-ICV2292	5W59790.D	11/07/25 12:25	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V5W2301 **Method:** TO-15 **Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2301-BFB	5W60000.D	11/24/25 09:12	n/a	BFB Tune
V5W2301-CC2292	5W60001.D	11/24/25 09:49	n/a	Continuing cal 10
V5W2301-BS	5W60002.D	11/24/25 12:02	n/a	Blank Spike
V5W2301-BSD	5W60003.D	11/24/25 12:39	n/a	Blank Spike Duplicate
V5W2301-MB	5W60005.D	11/24/25 14:27	n/a	Method Blank
JE23789-1	5W60006.D	11/24/25 15:18	n/a	SS-3
JE23789-3	5W60007.D	11/24/25 15:56	n/a	SS-4
JE23789-3DUP	5W60008.D	11/24/25 16:33	n/a	Duplicate
ZZZZZZ	5W60009.D	11/24/25 17:15	n/a	(unrelated sample)
ZZZZZZ	5W60010.D	11/24/25 17:58	n/a	(unrelated sample)
ZZZZZZ	5W60011.D	11/24/25 18:41	n/a	(unrelated sample)
ZZZZZZ	5W60012.D	11/24/25 19:25	n/a	(unrelated sample)
ZZZZZZ	5W60013.D	11/24/25 20:08	n/a	(unrelated sample)
ZZZZZZ	5W60014.D	11/24/25 20:52	n/a	(unrelated sample)
ZZZZZZ	5W60015.D	11/24/25 21:35	n/a	(unrelated sample)
ZZZZZZ	5W60016.D	11/24/25 22:19	n/a	(unrelated sample)
ZZZZZZ	5W60017.D	11/24/25 23:02	n/a	(unrelated sample)
ZZZZZZ	5W60018.D	11/24/25 23:46	n/a	(unrelated sample)
ZZZZZZ	5W60019.D	11/25/25 00:29	n/a	(unrelated sample)
ZZZZZZ	5W60020.D	11/25/25 01:14	n/a	(unrelated sample)
ZZZZZZ	5W60021.D	11/25/25 01:58	n/a	(unrelated sample)
ZZZZZZ	5W60022.D	11/25/25 02:43	n/a	(unrelated sample)
ZZZZZZ	5W60023.D	11/25/25 03:27	n/a	(unrelated sample)
ZZZZZZ	5W60024.D	11/25/25 04:12	n/a	(unrelated sample)
ZZZZZZ	5W60026.D	11/25/25 05:54	n/a	(unrelated sample)
JE23789-1	5W60027.D	11/25/25 06:37	n/a	SS-3
JE23789-3	5W60028.D	11/25/25 07:20	n/a	SS-4
ZZZZZZ	5W60029.D	11/25/25 07:57	n/a	(unrelated sample)
ZZZZZZ	5W60030.D	11/25/25 08:34	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W577	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W577-BFB	7W16573.D	08/07/25 02:05	n/a	BFB Tune
V7W577-IC577	7W16576.D	08/07/25 04:00	n/a	Initial cal 0.04
V7W577-IC577	7W16577.D	08/07/25 04:38	n/a	Initial cal 0.1
V7W577-IC577	7W16583.D	08/07/25 08:36	n/a	Initial cal 0.2
V7W577-IC577	7W16584.D	08/07/25 09:13	n/a	Initial cal 0.5
V7W577-IC577	7W16589.D	08/07/25 12:29	n/a	Initial cal 5
V7W577-ICC577	7W16590.D	08/07/25 13:07	n/a	Initial cal 10
V7W577-IC577	7W16591.D	08/07/25 13:47	n/a	Initial cal 20
V7W577-IC577	7W16592.D	08/07/25 14:30	n/a	Initial cal 40
V7W577-IC577	7W16593.D	08/07/25 15:15	n/a	Initial cal 50
V7W577-IC577	7W16594.D	08/07/25 16:02	n/a	Initial cal 60
V7W577-ICV577	7W16597.D	08/07/25 18:07	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W613 **Method:** TO-15 **Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W613-BFB	7W17472.D	09/26/25 10:25	n/a	BFB Tune
V7W613-CC577	7W17473.D	09/26/25 11:04	n/a	Continuing cal 10
V7W613-BS	7W17474.D	09/26/25 11:54	n/a	Blank Spike
V7W613-BSD	7W17475.D	09/26/25 12:32	n/a	Blank Spike Duplicate
V7W613-MB	7W17477.D	09/26/25 14:01	n/a	Method Blank
ZZZZZZ	7W17478.D	09/26/25 15:51	n/a	(unrelated sample)
ZZZZZZ	7W17479.D	09/26/25 16:43	n/a	(unrelated sample)
ZZZZZZ	7W17480.D	09/26/25 17:30	n/a	(unrelated sample)
JE19193-2	7W17481.D	09/26/25 18:21	n/a	(used for QC only; not part of job JE23789)
JE19193-2DUP	7W17482.D	09/26/25 19:09	n/a	Duplicate
V7W613-SCC	7W17483.D	09/26/25 19:55	n/a	Summa Cleaning Certification
V7W613-SCC	7W17484.D	09/26/25 20:38	n/a	Summa Cleaning Certification
V7W613-SCC	7W17485.D	09/26/25 21:22	n/a	Summa Cleaning Certification
V7W613-SCC	7W17486.D	09/26/25 22:06	n/a	Summa Cleaning Certification
V7W613-SCC	7W17487.D	09/26/25 22:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17488.D	09/26/25 23:33	n/a	Summa Cleaning Certification
V7W613-SCC	7W17489.D	09/27/25 00:13	n/a	Summa Cleaning Certification
V7W613-SCC	7W17490.D	09/27/25 00:52	n/a	Summa Cleaning Certification
V7W613-SCC	7W17491.D	09/27/25 01:31	n/a	Summa Cleaning Certification
V7W613-SCC	7W17492.D	09/27/25 02:11	n/a	Summa Cleaning Certification
V7W613-SCC	7W17493.D	09/27/25 02:50	n/a	Summa Cleaning Certification
V7W613-SCC	7W17494.D	09/27/25 03:29	n/a	Summa Cleaning Certification
V7W613-SCC	7W17495.D	09/27/25 04:08	n/a	Summa Cleaning Certification
V7W613-SCC	7W17496.D	09/27/25 04:48	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W624	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W624-BFB	7W17800.D	10/13/25 10:41	n/a	BFB Tune
V7W624-CC577	7W17801.D	10/13/25 11:18	n/a	Continuing cal 10
V7W624-BS	7W17802.D	10/13/25 12:00	n/a	Blank Spike
V7W624-BSD	7W17803.D	10/13/25 12:37	n/a	Blank Spike Duplicate
V7W624-MB	7W17805.D	10/13/25 14:03	n/a	Method Blank
ZZZZZZ	7W17806.D	10/13/25 15:24	n/a	(unrelated sample)
JE20702-1	7W17807.D	10/13/25 16:09	n/a	(used for QC only; not part of job JE23789)
JE20702-1DUP	7W17808.D	10/13/25 16:55	n/a	Duplicate
ZZZZZZ	7W17809.D	10/13/25 17:45	n/a	(unrelated sample)
ZZZZZZ	7W17810.D	10/13/25 18:38	n/a	(unrelated sample)
ZZZZZZ	7W17811.D	10/13/25 19:25	n/a	(unrelated sample)
ZZZZZZ	7W17812.D	10/13/25 20:14	n/a	(unrelated sample)
ZZZZZZ	7W17813.D	10/13/25 21:05	n/a	(unrelated sample)
ZZZZZZ	7W17814.D	10/13/25 21:58	n/a	(unrelated sample)
ZZZZZZ	7W17815.D	10/13/25 22:49	n/a	(unrelated sample)
ZZZZZZ	7W17816.D	10/13/25 23:42	n/a	(unrelated sample)
ZZZZZZ	7W17817.D	10/14/25 00:27	n/a	(unrelated sample)
ZZZZZZ	7W17818.D	10/14/25 01:14	n/a	(unrelated sample)
ZZZZZZ	7W17819.D	10/14/25 02:02	n/a	(unrelated sample)
ZZZZZZ	7W17820.D	10/14/25 02:51	n/a	(unrelated sample)
ZZZZZZ	7W17821.D	10/14/25 03:40	n/a	(unrelated sample)
ZZZZZZ	7W17822.D	10/14/25 04:19	n/a	(unrelated sample)
ZZZZZZ	7W17823.D	10/14/25 04:58	n/a	(unrelated sample)
ZZZZZZ	7W17824.D	10/14/25 05:38	n/a	(unrelated sample)
ZZZZZZ	7W17825.D	10/14/25 06:17	n/a	(unrelated sample)
ZZZZZZ	7W17826.D	10/14/25 06:55	n/a	(unrelated sample)
V7W624-SCC	7W17827.D	10/14/25 07:39	n/a	Summa Cleaning Certification
V7W624-SCC	7W17828.D	10/14/25 08:23	n/a	Summa Cleaning Certification
V7W624-SCC	7W17829.D	10/14/25 09:07	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W647	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W647-BFB	7W18503.D	11/12/25 10:56	n/a	BFB Tune
V7W647-CC577	7W18504.D	11/12/25 11:33	n/a	Continuing cal 10
V7W647-BS	7W18505.D	11/12/25 12:15	n/a	Blank Spike
V7W647-BSD	7W18506.D	11/12/25 12:53	n/a	Blank Spike Duplicate
V7W647-MB	7W18508.D	11/12/25 14:23	n/a	Method Blank
V7W647-SCC	7W18509.D	11/12/25 15:20	n/a	Summa Cleaning Certification
V7W647-SCC	7W18510.D	11/12/25 15:59	n/a	Summa Cleaning Certification
V7W647-SCC	7W18511.D	11/12/25 16:38	n/a	Summa Cleaning Certification
V7W647-SCC	7W18512.D	11/12/25 17:16	n/a	Summa Cleaning Certification
V7W647-SCC	7W18513.D	11/12/25 17:56	n/a	Summa Cleaning Certification
V7W647-SCC	7W18514.D	11/12/25 18:33	n/a	Summa Cleaning Certification
ZZZZZZ	7W18515.D	11/12/25 19:15	n/a	(unrelated sample)
ZZZZZZ	7W18516.D	11/12/25 19:56	n/a	(unrelated sample)
JE22625-1	7W18517.D	11/12/25 20:36	n/a	(used for QC only; not part of job JE23789)
JE22625-1DUP	7W18518.D	11/12/25 21:16	n/a	Duplicate
ZZZZZZ	7W18519.D	11/12/25 21:54	n/a	(unrelated sample)
ZZZZZZ	7W18520.D	11/12/25 22:33	n/a	(unrelated sample)
ZZZZZZ	7W18521.D	11/12/25 23:12	n/a	(unrelated sample)
ZZZZZZ	7W18522.D	11/12/25 23:52	n/a	(unrelated sample)
ZZZZZZ	7W18523.D	11/13/25 00:31	n/a	(unrelated sample)
ZZZZZZ	7W18524.D	11/13/25 01:10	n/a	(unrelated sample)
ZZZZZZ	7W18525.D	11/13/25 01:48	n/a	(unrelated sample)
ZZZZZZ	7W18526.D	11/13/25 02:26	n/a	(unrelated sample)
ZZZZZZ	7W18527.D	11/13/25 03:07	n/a	(unrelated sample)
ZZZZZZ	7W18528.D	11/13/25 03:45	n/a	(unrelated sample)
ZZZZZZ	7W18529.D	11/13/25 04:24	n/a	(unrelated sample)
ZZZZZZ	7W18530.D	11/13/25 05:04	n/a	(unrelated sample)
ZZZZZZ	7W18531.D	11/13/25 05:43	n/a	(unrelated sample)
ZZZZZZ	7W18532.D	11/13/25 06:24	n/a	(unrelated sample)
ZZZZZZ	7W18533.D	11/13/25 07:03	n/a	(unrelated sample)
ZZZZZZ	7W18534.D	11/13/25 07:41	n/a	(unrelated sample)
ZZZZZZ	7W18535.D	11/13/25 08:19	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W655	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W655-BFB	7W18764.D	11/24/25 09:14	n/a	BFB Tune
V7W655-CC577	7W18765.D	11/24/25 09:52	n/a	Continuing cal 10
V7W655-BS	7W18766.D	11/24/25 10:35	n/a	Blank Spike
V7W655-BSD	7W18767.D	11/24/25 11:15	n/a	Blank Spike Duplicate
V7W655-MB	7W18769.D	11/24/25 12:43	n/a	Method Blank
JE23787-3	7W18776.D	11/24/25 18:48	n/a	(used for QC only; not part of job JE23789)
JE23787-3DUP	7W18777.D	11/24/25 19:27	n/a	Duplicate
ZZZZZZ	7W18778.D	11/24/25 20:12	n/a	(unrelated sample)
ZZZZZZ	7W18779.D	11/24/25 20:56	n/a	(unrelated sample)
ZZZZZZ	7W18780.D	11/24/25 21:35	n/a	(unrelated sample)
ZZZZZZ	7W18781.D	11/24/25 22:19	n/a	(unrelated sample)
JE23789-2	7W18783.D	11/24/25 23:51	n/a	IA-3
JE23789-4	7W18784.D	11/25/25 00:38	n/a	IA-4
ZZZZZZ	7W18785.D	11/25/25 01:26	n/a	(unrelated sample)
ZZZZZZ	7W18786.D	11/25/25 02:13	n/a	(unrelated sample)
ZZZZZZ	7W18787.D	11/25/25 02:51	n/a	(unrelated sample)
ZZZZZZ	7W18788.D	11/25/25 03:31	n/a	(unrelated sample)
ZZZZZZ	7W18789.D	11/25/25 04:10	n/a	(unrelated sample)
ZZZZZZ	7W18790.D	11/25/25 04:50	n/a	(unrelated sample)
ZZZZZZ	7W18791.D	11/25/25 05:30	n/a	(unrelated sample)
ZZZZZZ	7W18792.D	11/25/25 06:09	n/a	(unrelated sample)
ZZZZZZ	7W18793.D	11/25/25 06:49	n/a	(unrelated sample)
ZZZZZZ	7W18794.D	11/25/25 07:36	n/a	(unrelated sample)
ZZZZZZ	7W18795.D	11/25/25 08:15	n/a	(unrelated sample)
JE23789-2	7W18796.D	11/25/25 08:52	n/a	IA-3

Run Sequence Report

Job Number: JE23789
Account: GESNYP Groundwater & Environmental Services
Project: Regency Center Carmel ShopRite Plaza, Carmel, NY

Run ID: V7W656	**Method:** TO-15	**Instrument ID:** GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W656-BFB	7W18797.D	11/25/25 10:02	n/a	BFB Tune
V7W656-CC577	7W18798.D	11/25/25 10:39	n/a	Continuing cal 10
V7W656-BS	7W18799.D	11/25/25 11:31	n/a	Blank Spike
V7W656-BSD	7W18800.D	11/25/25 12:09	n/a	Blank Spike Duplicate
V7W656-MB	7W18802.D	11/25/25 13:43	n/a	Method Blank
JE24006-1	7W18803.D	11/25/25 14:38	n/a	(used for QC only; not part of job JE23789)
JE24006-1DUP	7W18804.D	11/25/25 15:24	n/a	Duplicate
JE23789-2	7W18805.D	11/25/25 16:04	n/a	IA-3
JE23789-4	7W18806.D	11/25/25 16:48	n/a	IA-4
ZZZZZZ	7W18807.D	11/25/25 17:26	n/a	(unrelated sample)
ZZZZZZ	7W18808.D	11/25/25 18:05	n/a	(unrelated sample)
ZZZZZZ	7W18810.D	11/25/25 19:33	n/a	(unrelated sample)
ZZZZZZ	7W18820.D	11/26/25 02:52	n/a	(unrelated sample)
ZZZZZZ	7W18821.D	11/26/25 03:30	n/a	(unrelated sample)
ZZZZZZ	7W18822.D	11/26/25 04:08	n/a	(unrelated sample)
ZZZZZZ	7W18823.D	11/26/25 04:46	n/a	(unrelated sample)
ZZZZZZ	7W18824.D	11/26/25 05:25	n/a	(unrelated sample)

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60006.D
Acq On : 24 Nov 2025 3:18 pm
Operator : benk
Sample : je23789-1
Misc : MS99437,V5W2301,40,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 15:26:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

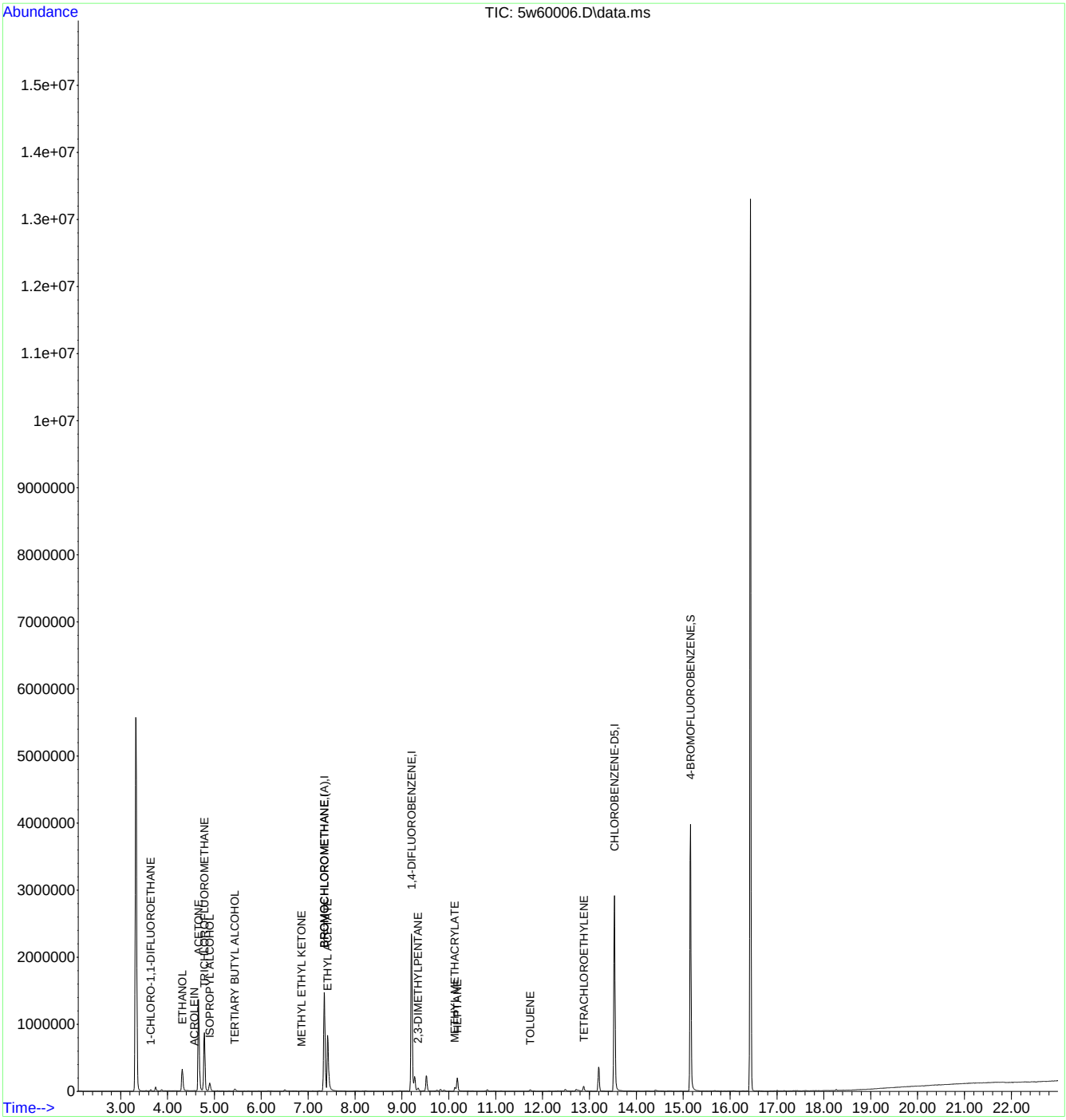
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.342	128	479276	10.00	PPBV		-0.01
51) 1,4-DIFLUOROBENZENE	9.202	114	2151488	10.00	PPBV		-0.01
70) CHLOROBENZENE-D5	13.533	82	1006479	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.342	128	479276	10.00	PPBV		-0.01
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1336534	10.63	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.30%				
Target Compounds							Qvalue
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	19842	0.1786	PPBV		98
18) ACROLEIN	4.565	56	2009	0.1355	PPBV		95
21) TRICHLOROFLUOROMETHANE	4.785	101	777927	6.6399	PPBV		100
22) ISOPROPYL ALCOHOL	4.901	45	181683	1.9331	PPBV		92
23) ACETONE	4.662	58	645073	34.3171	PPBV		91
28) ETHANOL	4.314	45	436384	27.7146	PPBV		99
35) TERTIARY BUTYL ALCOHOL	5.439	59	43849	0.4563	PPBV		96
41) METHYL ETHYL KETONE	6.853	72	3363	0.1817	PPBV	#	80
44) ETHYL ACETATE	7.415	61	188155	13.3010	PPBV		91
54) 2,3-DIMETHYLPENTANE	9.349	71	7461	0.2564	PPBV	#	92
62) HEPTANE	10.181	43	78158	0.9424	PPBV		95
63) METHYL METHACRYLATE	10.132	69	37728	0.8031	PPBV	#	61
66) TOLUENE	11.735	92	13571	0.1260	PPBV		92
73) TETRACHLOROETHYLENE	12.872	164	19410	0.2827	PPBV		100

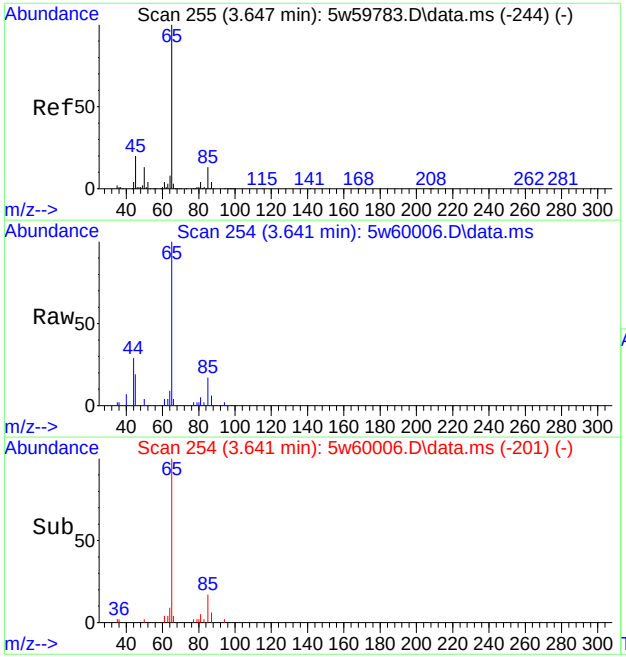
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60006.D
Acq On : 24 Nov 2025 3:18 pm
Operator : benk
Sample : je23789-1
Misc : MS99437,V5W2301,40,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 15:26:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

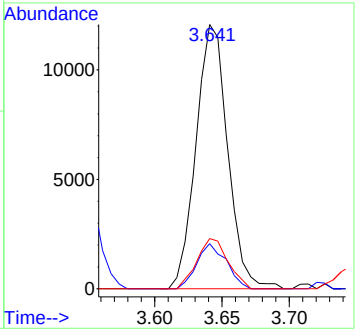


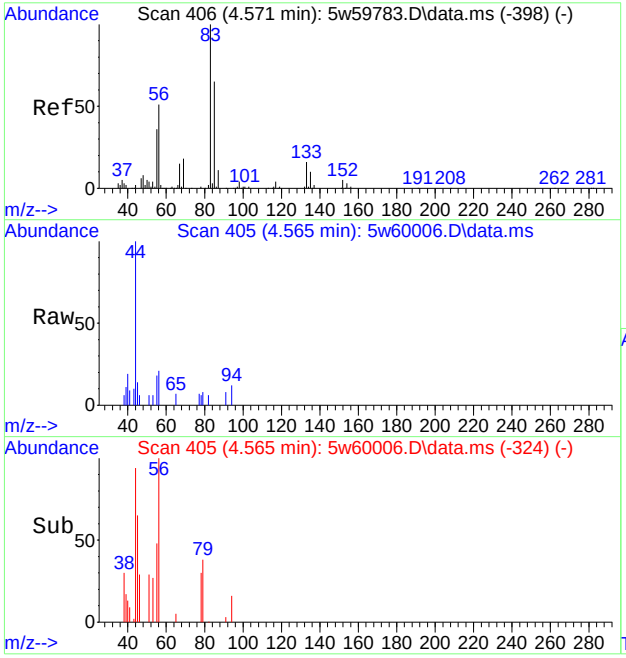


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.18 PPBV
RT: 3.641 min Scan# 254
Delta R.T. -0.006 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 65 Resp: 19842

Ion	Ratio	Lower	Upper
65	100		
85	15.9	11.5	21.3
45	18.7	14.0	26.0

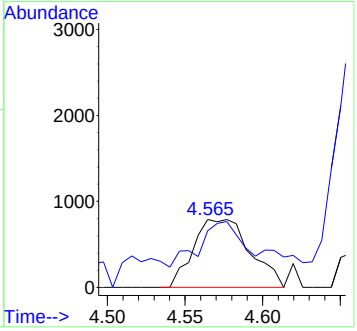


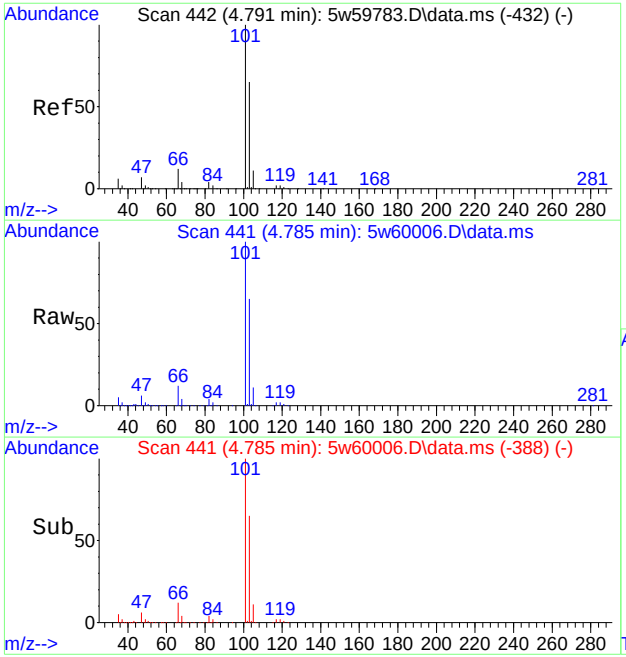


#18
ACROLEIN
Concen: 0.14 PPBV
RT: 4.565 min Scan# 405
Delta R.T. -0.006 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 56 Resp: 2009

Ion	Ratio	Lower	Upper
56	100		
55	62.8	46.6	86.6

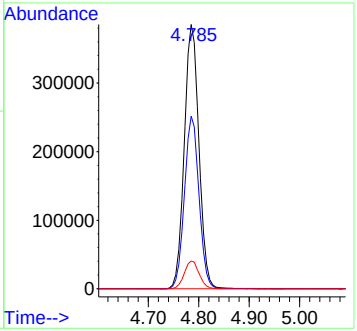


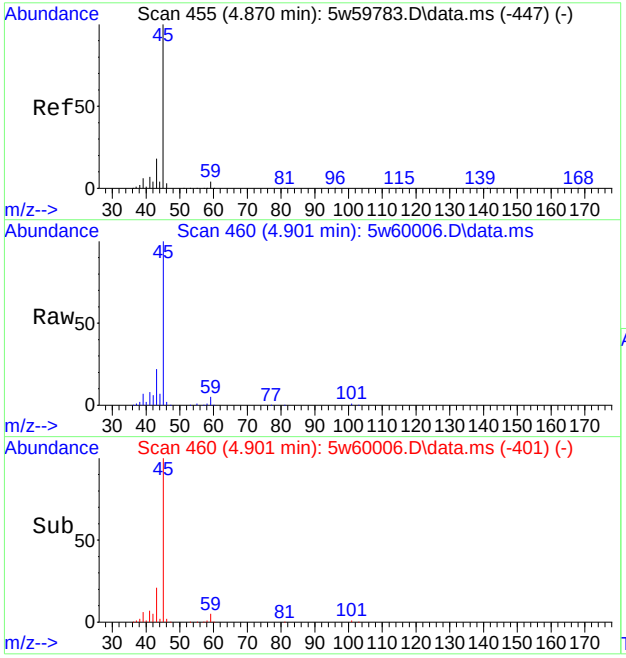


#21
TRICHLOROFLUOROMETHANE
Concen: 6.64 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion:101 Resp: 777927

Ion	Ratio	Lower	Upper
101	100		
103	64.9	35.0	95.0
105	10.7	0.0	40.7

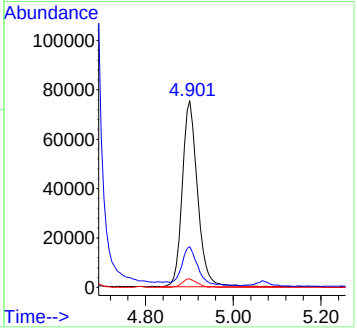


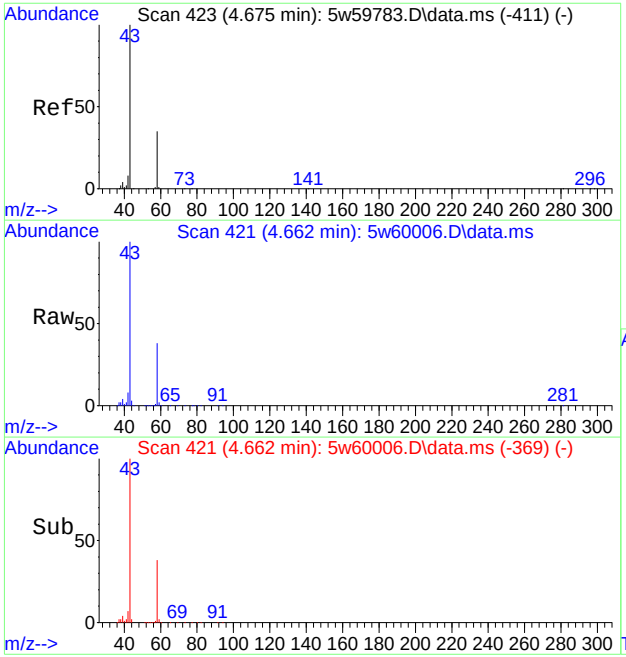


#22
ISOPROPYL ALCOHOL
Concen: 1.93 PPBV
RT: 4.901 min Scan# 460
Delta R.T. 0.031 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 45 Resp: 181683

Ion	Ratio	Lower	Upper
45	100		
43	21.8	0.0	47.8
59	4.5	0.0	34.1

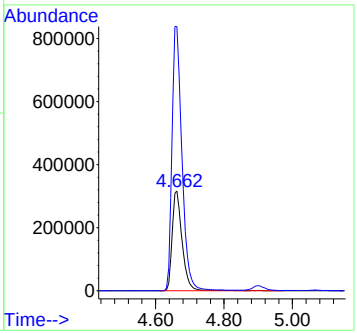


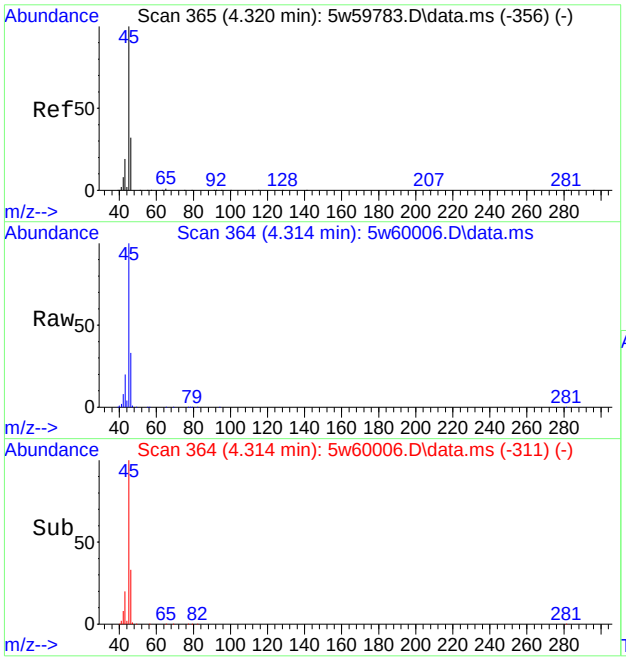


#23
ACETONE
Concen: 34.32 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 58 Resp: 645073

Ion	Ratio	Lower	Upper
58	100		
43	265.5	252.3	312.3

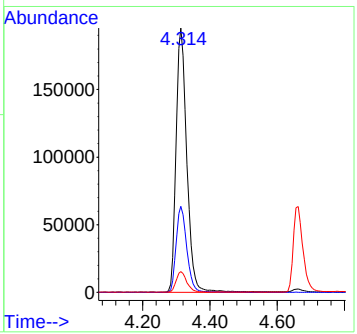


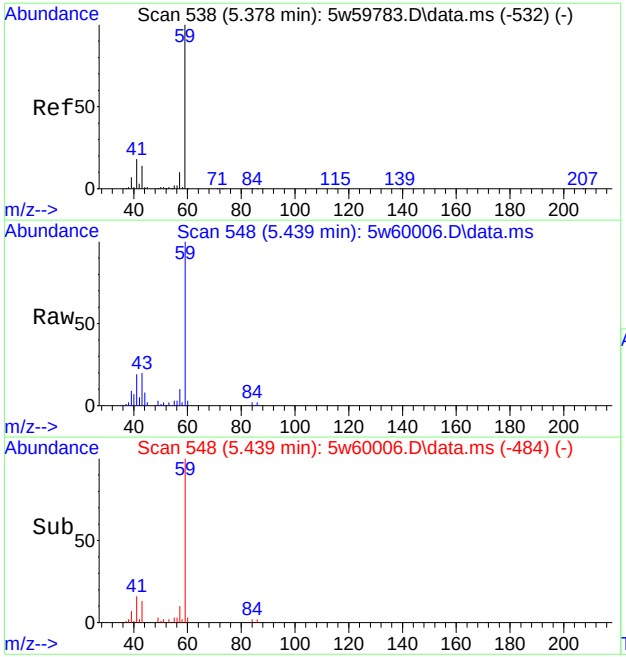


#28
ETHANOL
Concen: 27.71 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 45 Resp: 436384

Ion	Ratio	Lower	Upper
45	100		
46	32.5	2.0	62.0
42	8.6	0.0	38.5

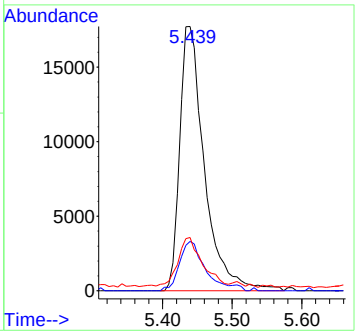


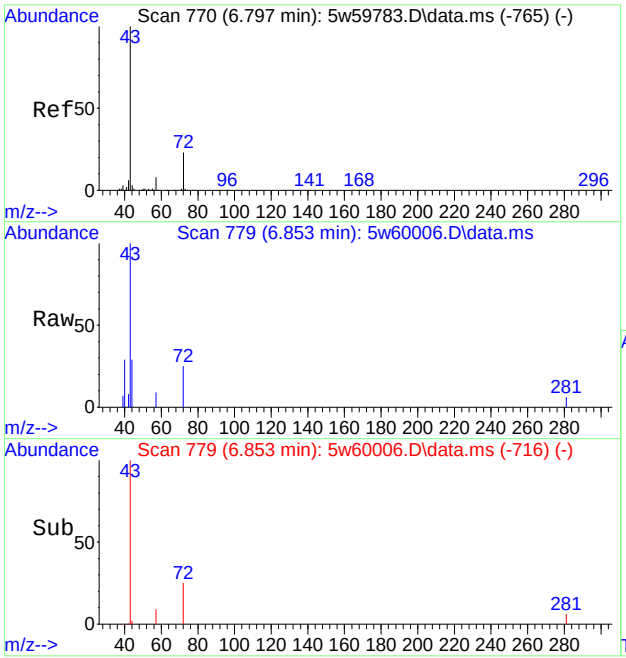


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.46 PPBV
RT: 5.439 min Scan# 548
Delta R.T. 0.061 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 59 Resp: 43849

Ion	Ratio	Lower	Upper
59	100		
41	19.6	0.0	49.3
43	17.6	0.0	44.1

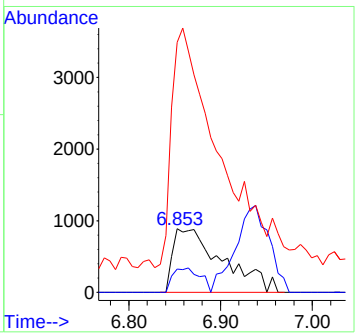


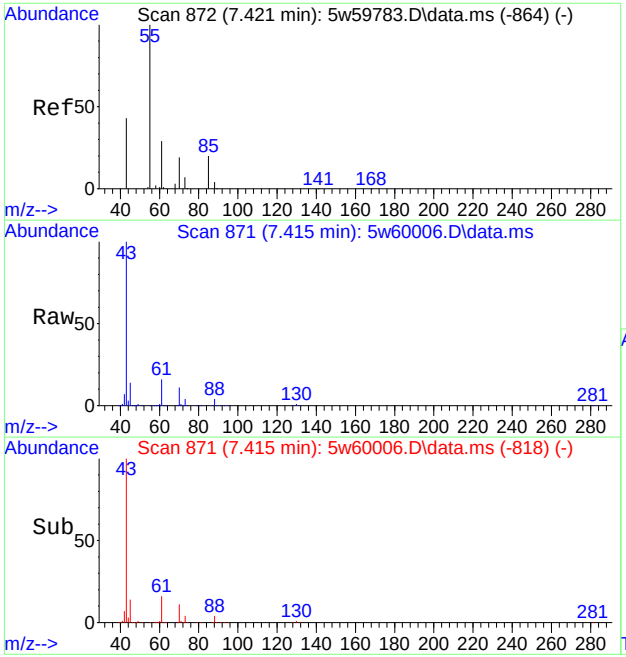


#41
METHYL ETHYL KETONE
Concen: 0.18 PPBV
RT: 6.853 min Scan# 779
Delta R.T. 0.056 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 72 Resp: 3363

Ion	Ratio	Lower	Upper
72	100		
57	36.7	4.8	64.8
43	392.2	415.9	475.9#

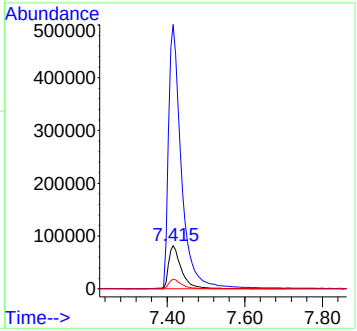


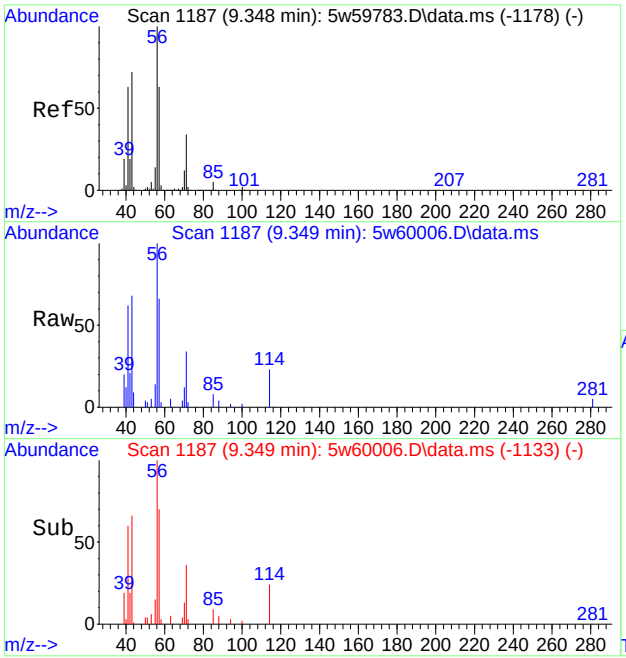


#44
ETHYL ACETATE
Concen: 13.30 PPBV
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 61 Resp: 188155

Ion	Ratio	Lower	Upper
61	100		
43	614.8	560.5	620.5
88	22.1	4.5	64.5

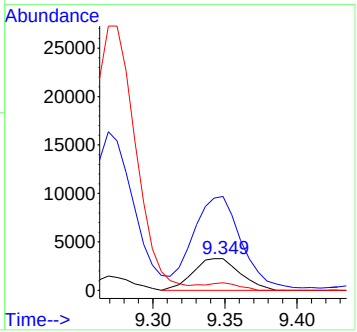


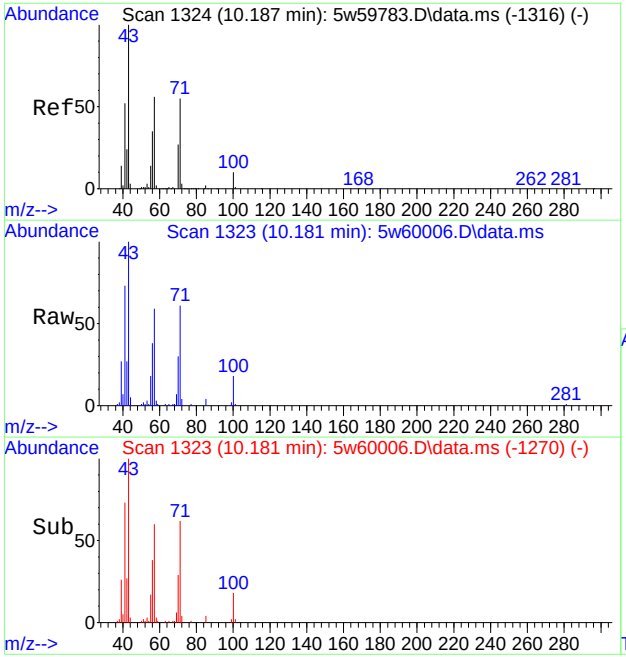


#54
2,3-DIMETHYLPENTANE
Concen: 0.26 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 71 Resp: 7461

Ion	Ratio	Lower	Upper
71	100		
56	307.8	264.6	324.6
85	0.0	0.0	45.3

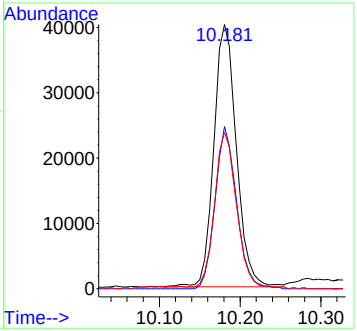


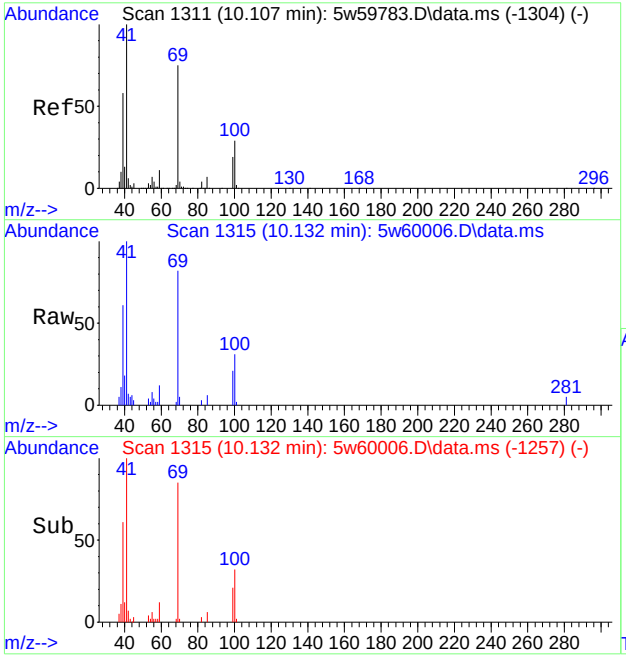


#62
HEPTANE
Concen: 0.94 PPBV
RT: 10.181 min Scan# 1323
Delta R.T. -0.006 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 43 Resp: 78158

Ion	Ratio	Lower	Upper
43	100		
71	58.7	24.5	84.5
57	58.7	26.2	86.2

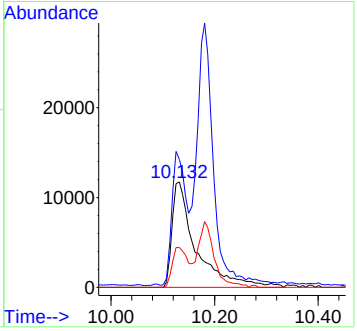


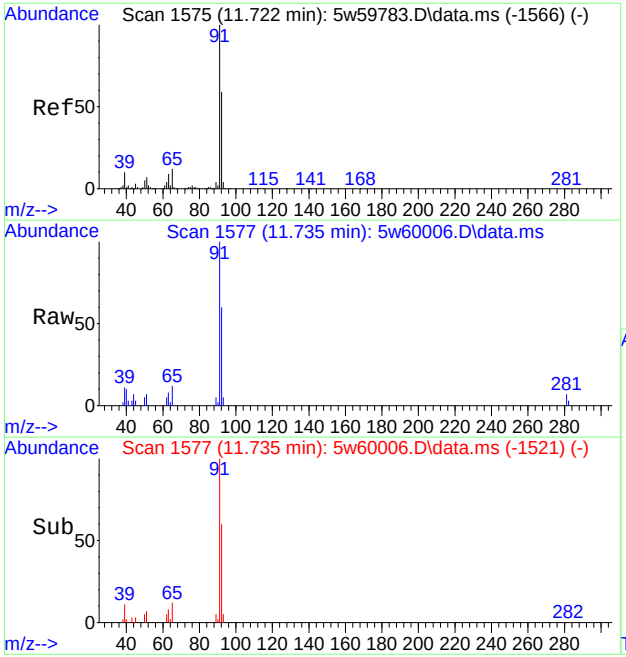


#63
METHYL METHACRYLATE
Concen: 0.80 PPBV
RT: 10.132 min Scan# 1315
Delta R.T. 0.025 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 69 Resp: 37728

Ion	Ratio	Lower	Upper
69	100		
41	74.4	95.3	155.3#
100	25.6	6.3	66.3

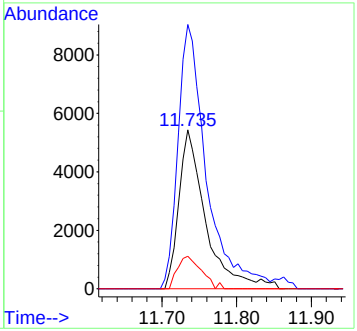


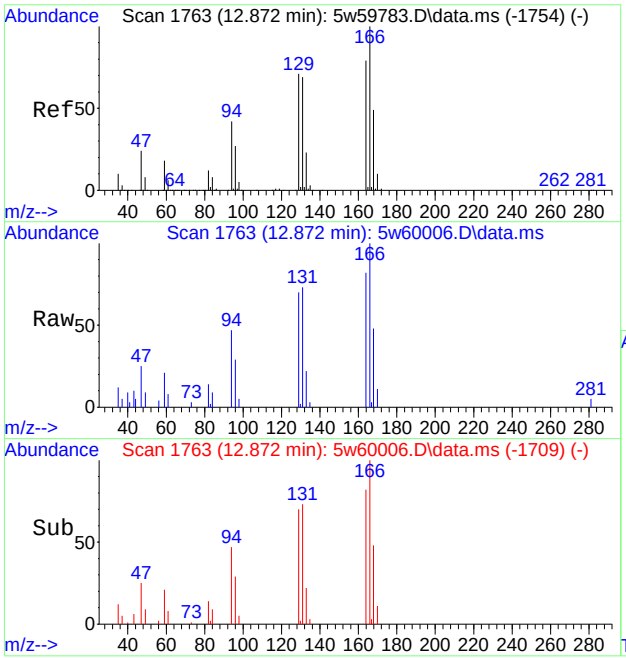


#66
TOLUENE
Concen: 0.13 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion: 92 Resp: 13571

Ion	Ratio	Lower	Upper
92	100		
91	180.2	140.1	200.1
65	18.3	0.0	53.1

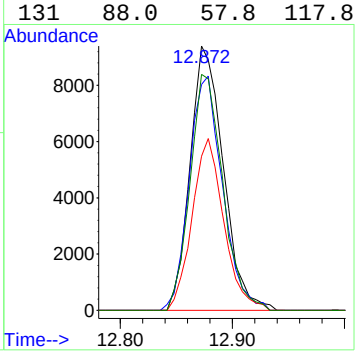




#73
TETRACHLOROETHYLENE
Concen: 0.28 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60006.D
Acq: 24 Nov 2025 3:18 pm

Tgt Ion:164 Resp: 19410

Ion	Ratio	Lower	Upper
164	100		
129	88.9	59.7	119.7
168	62.1	32.2	92.2
131	88.0	57.8	117.8



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 15:30

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60027.D
Acq On : 25 Nov 2025 6:37 am
Operator : benk
Sample : je23789-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 03:10:51 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	457379	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2030446	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	965813	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	457379	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1354032	11.22	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 112.20%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	3.476	67	4070	0.2868	PPBV	69
6) DICHLORODIFLUOROMETHANE	3.549	85	77482	0.5919	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	185210	1.7472	PPBV	98
10) CHLOROMETHANE	3.665	52	2702	0.1880	PPBV #	67
13) n-BUTANE	3.940	43	24201	0.5552	PPBV #	95
17) ACETONITRILE	4.485	41	4683	0.1881	PPBV	88
18) ACROLEIN	4.571	56	14315	1.0116	PPBV	95
21) TRICHLOROFLUOROMETHANE	4.785	101	6078853	54.3694	PPBV	99
22) ISOPROPYL ALCOHOL	4.877	45	1452235	16.1918	PPBV	96
23) ACETONE	4.656	58	4191428	233.6543	PPBV	88
24) PENTANE	5.066	42	18045	0.3873	PPBV	97
28) ETHANOL	4.320	45	3068308	204.1968	PPBV	98
31) METHYLENE CHLORIDE	5.427	84	15441	0.3365	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.390	59	358202	3.9057	PPBV	94
37) TETRAHYDROFURAN	7.899	72	2782	0.1567	PPBV #	1
38) HEXANE	7.379	57	33910	0.4644	PPBV #	1
39) VINYL ACETATE	6.565	86	7685	1.0406	PPBV #	67
41) METHYL ETHYL KETONE	6.810	72	40389	2.2862	PPBV #	81
44) ETHYL ACETATE	7.403	61	1955965	144.8904	PPBV #	77
45) METHYL ACRYLATE	7.403	55	17257	0.2386	PPBV #	29
46) CHLOROFORM	7.483	83	14948	0.1470	PPBV	97
47) 2,4-DIMETHYLPENTANE	8.223	57	29561	0.3577	PPBV	96
52) BENZENE	8.859	78	38071	0.2799	PPBV	98
53) CYCLOHEXANE	9.098	84	17118	0.3150	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.342	71	73991	2.6944	PPBV	86
55) TRICHLOROETHYLENE	9.893	95	2701	0.0390	PPBV	89
60) 2,2,4-TRIMETHYLPENTANE	9.905	57	30708	0.1427	PPBV #	1
62) HEPTANE	10.181	43	864503	11.0450	PPBV	94
63) METHYL METHACRYLATE	10.101	69	389605	8.7881	PPBV	88
64) METHYL ISOBUTYL KETONE	10.835	58	7479	0.1864	PPBV	89
66) TOLUENE	11.722	92	131197	1.2903	PPBV	97
71) 2-HEXANONE	12.065	58	8597	0.1702	PPBV	89
72) ETHYL METHACRYLATE	12.046	69	11912	0.1785	PPBV	97
73) TETRACHLOROETHYLENE	12.872	164	170988	2.5954	PPBV	99
76) OCTANE	12.726	43	38372m	0.4183	PPBV	
79) ETHYLBENZENE	13.992	91	29928	0.1617	PPBV	95
80) m,p-XYLENE	14.169	106	38634	0.5296	PPBV	99
81) o-XYLENE	14.683	106	15059	0.2204	PPBV	90
83) NONANE	14.934	43	16385	0.1766	PPBV	98
92) 4-ETHYLTOLUENE	15.968	105	20007m	0.1046	PPBV	
93) 1,3,5-TRIMETHYLBENZENE	16.047	105	20059	0.1128	PPBV	95
97) m-DICHLOROBENZENE	16.580	146	52991	0.4176	PPBV	99
101) 1,2,3-TRIMETHYLBENZENE	16.855	105	19663	0.1120	PPBV	82
104) n-BUTYLBENZENE	17.259	134	8522	0.1678	PPBV #	1
108) NAPHTHALENE	18.678	128	28820	0.1121	PPBV	90

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60027.D
Acq On : 25 Nov 2025 6:37 am
Operator : benk
Sample : je23789-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 03:10:51 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

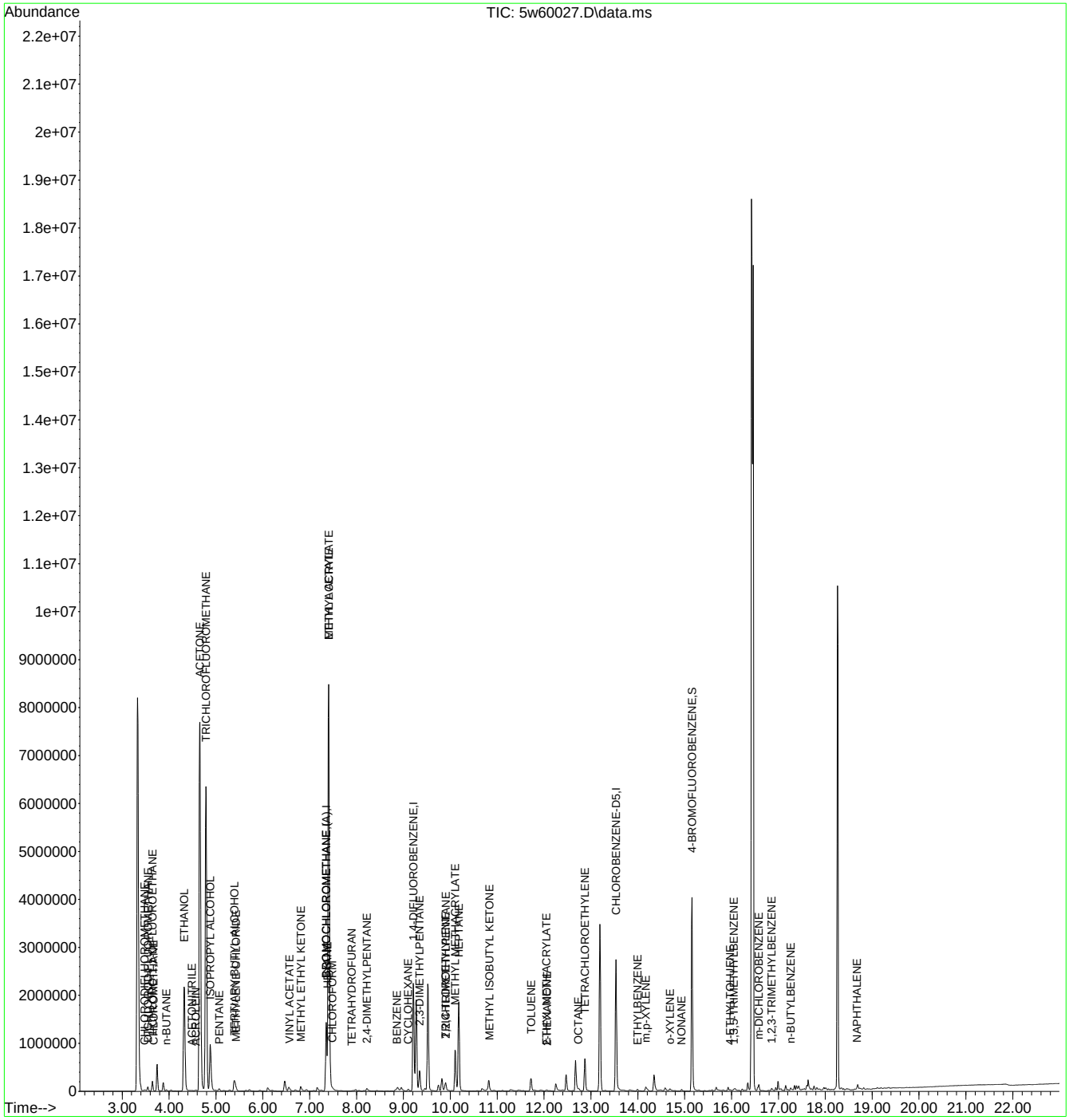
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

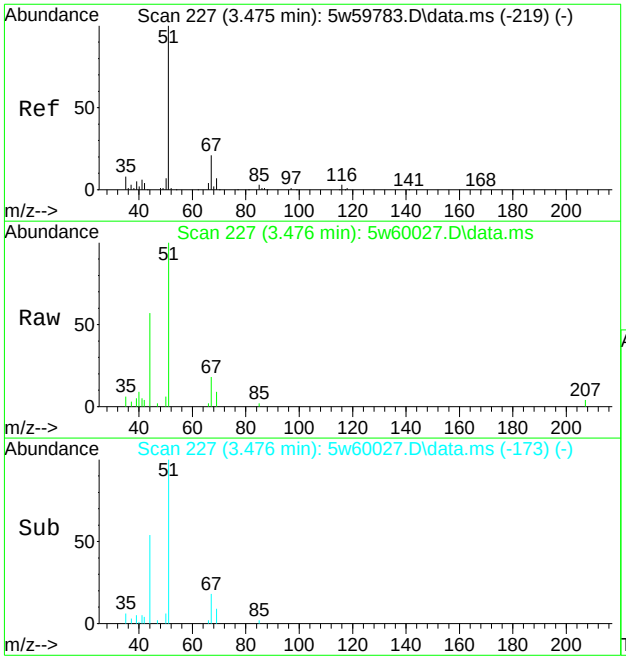
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60027.D
Acq On : 25 Nov 2025 6:37 am
Operator : benk
Sample : je23789-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 03:10:51 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

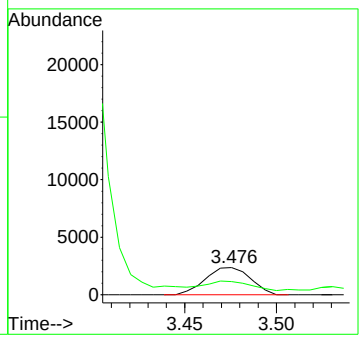


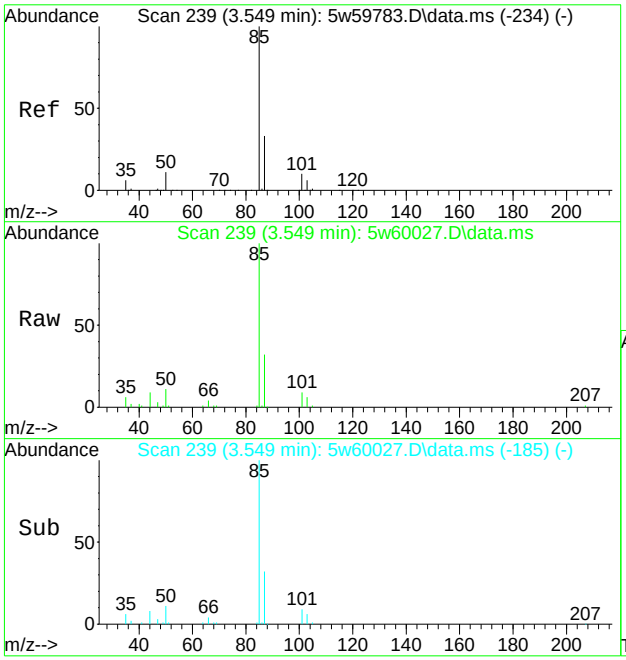


#4
CHLORODIFLUOROMETHANE
Concen: 0.2868 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 67 Resp: 4070

Ion	Ratio	Lower	Upper
67	100		
69	48.1	1.0	61.0

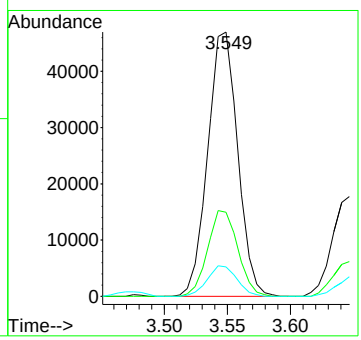


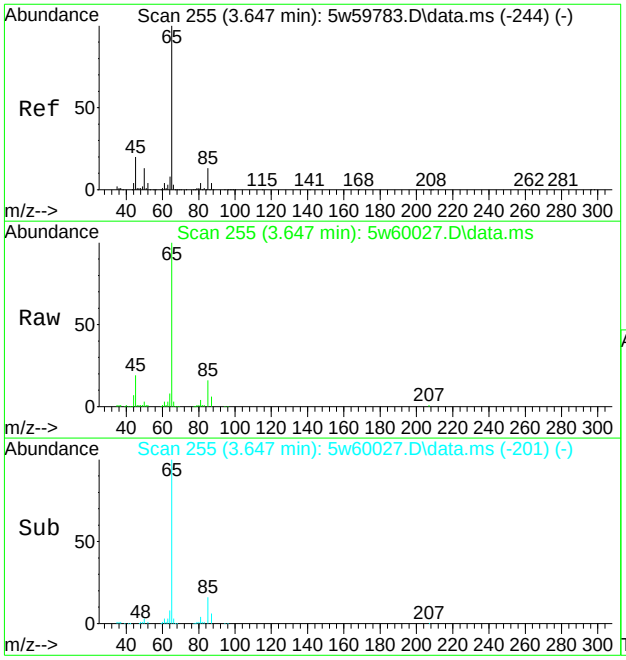


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5919 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 85 Resp: 77482

Ion	Ratio	Lower	Upper
85	100		
87	32.6	2.5	62.5
50	11.5	0.0	41.7

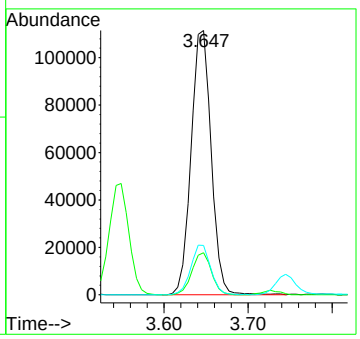


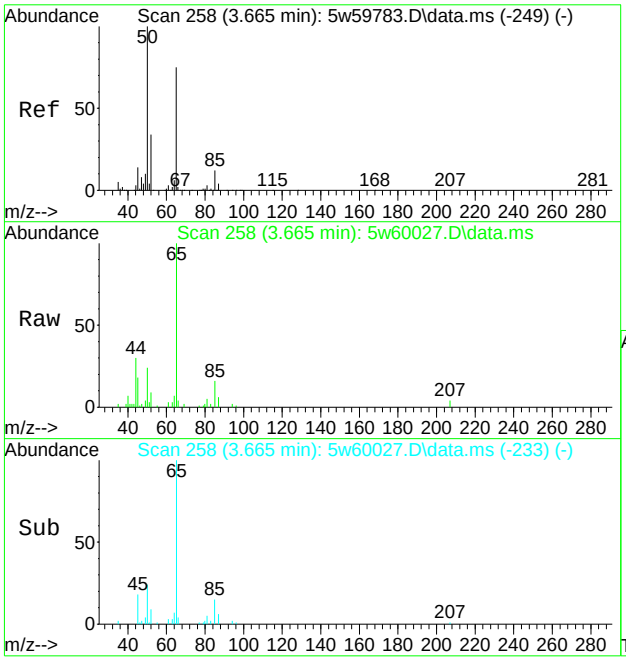


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 1.7472 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 65 Resp: 185210

Ion	Ratio	Lower	Upper
65	100		
85	15.6	11.5	21.3
45	18.7	14.0	26.0

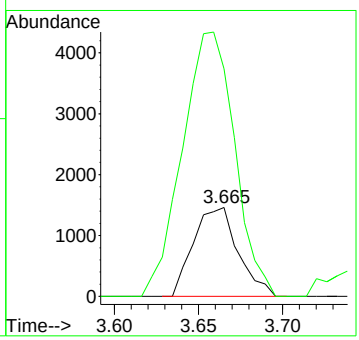


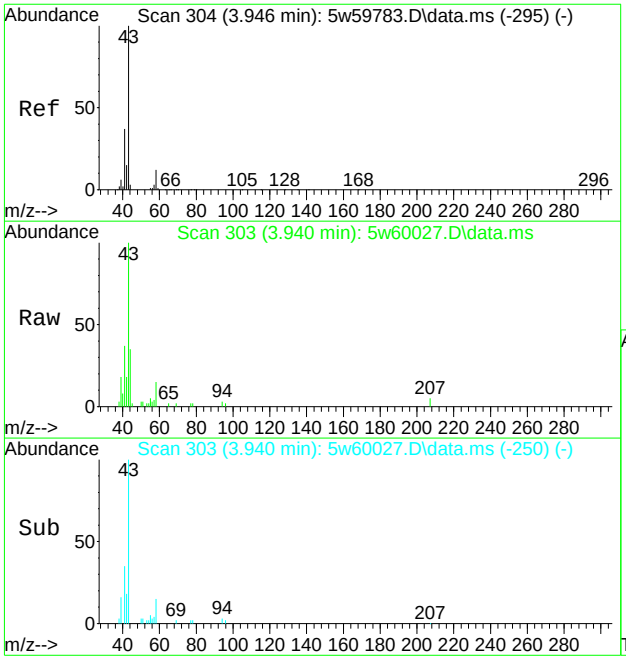


#10
CHLOROMETHANE
Concen: 0.1880 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 52 Resp: 2702

Ion	Ratio	Lower	Upper
52	100		
50	233.7	267.9	327.9#

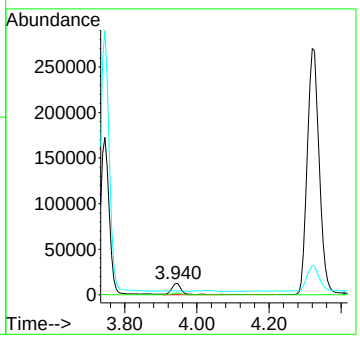


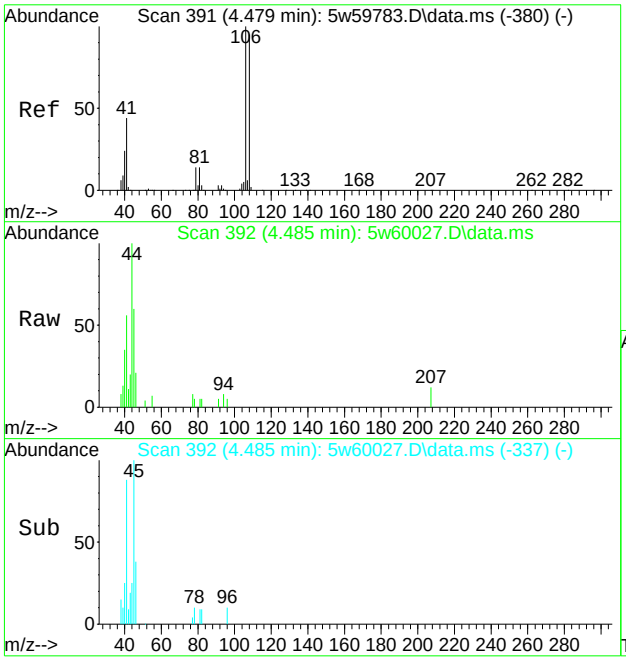


#13
n-BUTANE
Concen: 0.5552 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 43 Resp: 24201

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	0.0	0.0	34.9

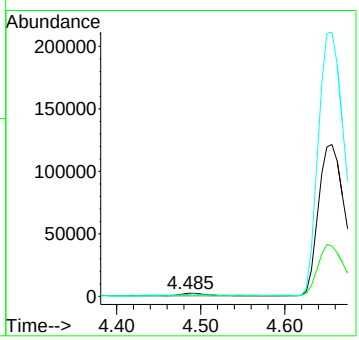


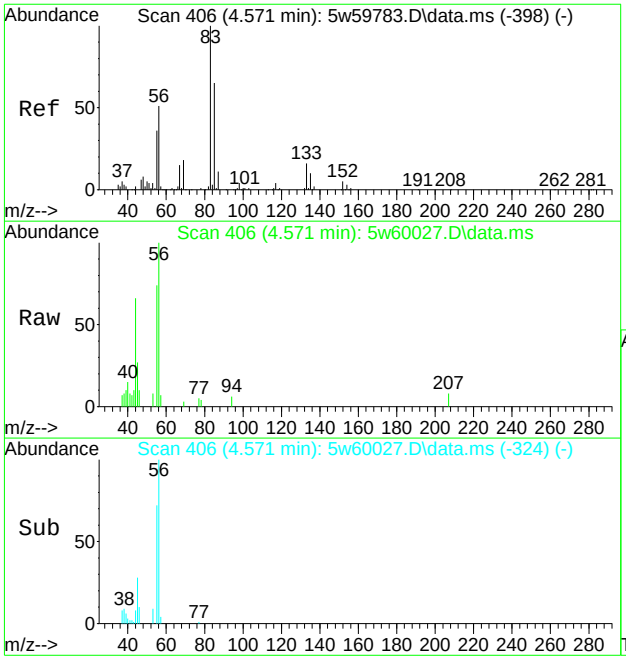


#17
ACETONITRILE
Concen: 0.1881 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 41 Resp: 4683

Ion	Ratio	Lower	Upper
41	100		
40	45.9	37.9	70.5
39	13.8	13.4	24.8

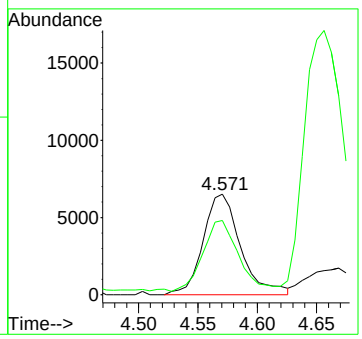


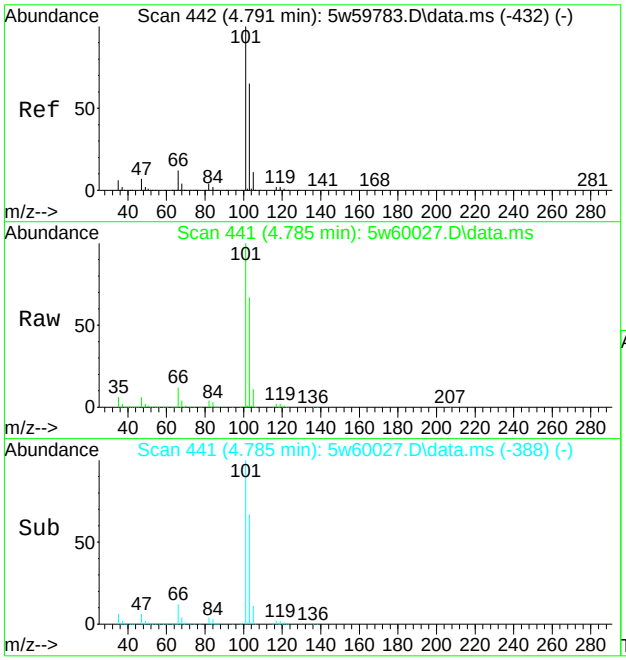


#18
ACROLEIN
Concen: 1.0116 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 56 Resp: 14315

Ion	Ratio	Lower	Upper
56	100		
55	70.6	46.6	86.6

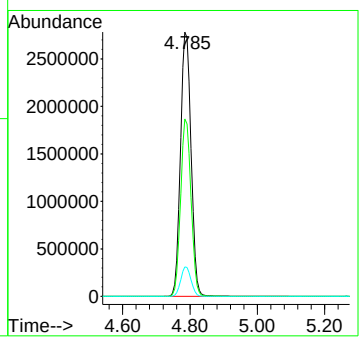


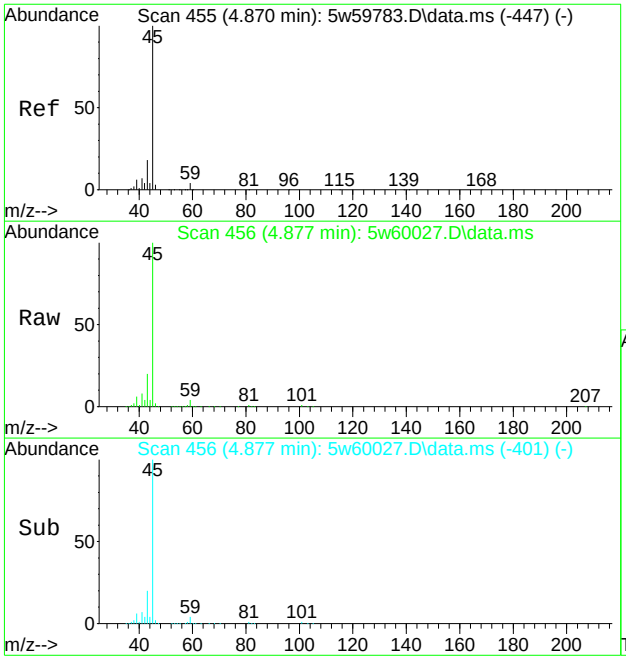


#21
TRICHLOROFLUOROMETHANE
Concen: 54.3694 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:101 Resp: 6078853

Ion	Ratio	Lower	Upper
101	100		
103	66.2	35.0	95.0
105	10.9	0.0	40.7

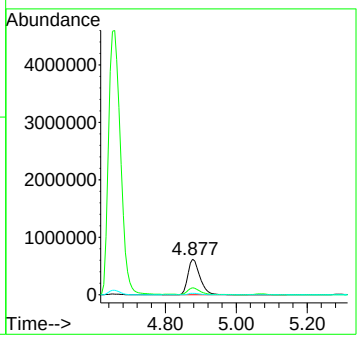


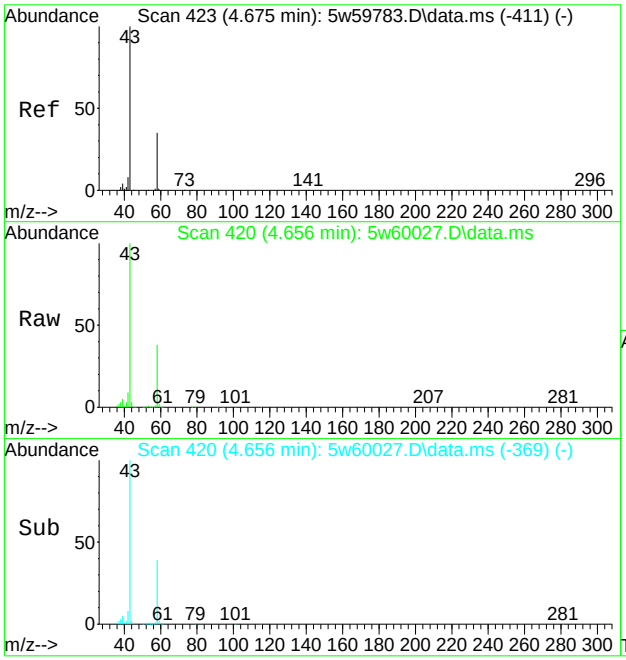


#22
ISOPROPYL ALCOHOL
Concen: 16.1918 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 45 Resp: 1452235

Ion	Ratio	Lower	Upper
45	100		
43	19.7	0.0	47.8
59	4.4	0.0	34.1

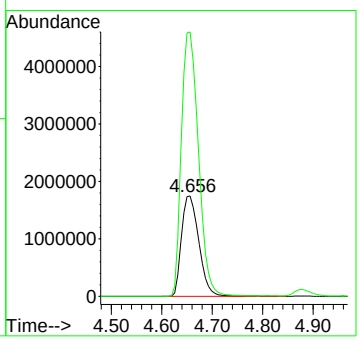


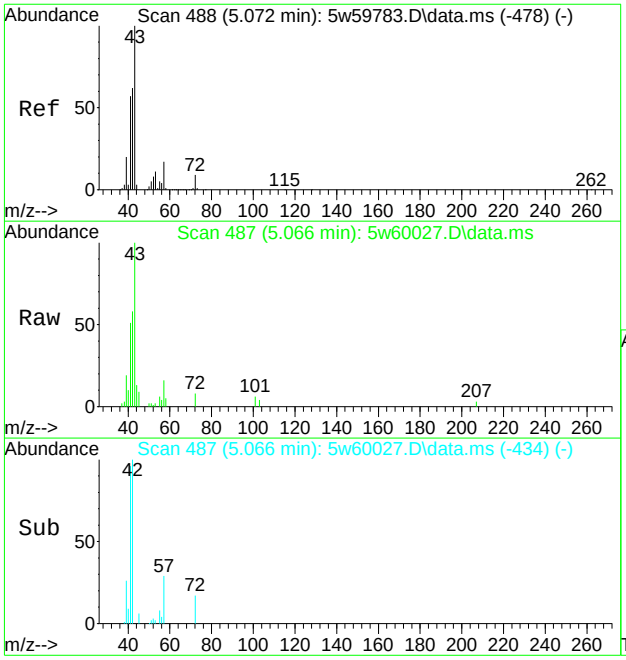


#23
ACETONE
Concen: 233.6543 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 58 Resp: 4191428

Ion	Ratio	Lower	Upper
58	100		
43	260.0	252.3	312.3

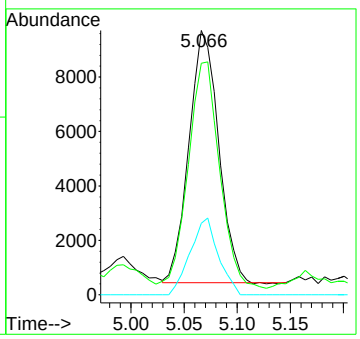


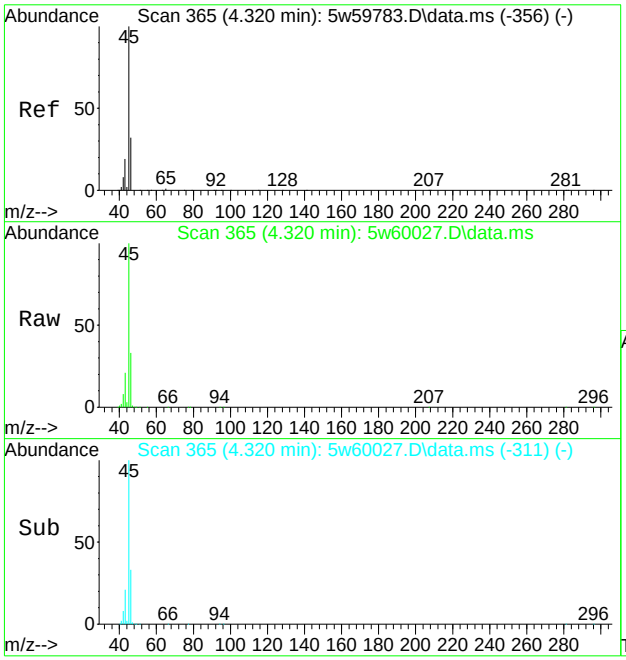


#24
PENTANE
Concen: 0.3873 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 42 Resp: 18045

Ion	Ratio	Lower	Upper
42	100		
41	95.3	62.3	122.3
57	28.7	0.0	57.7

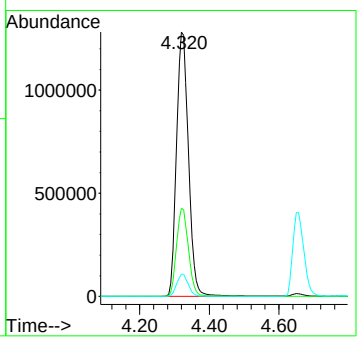


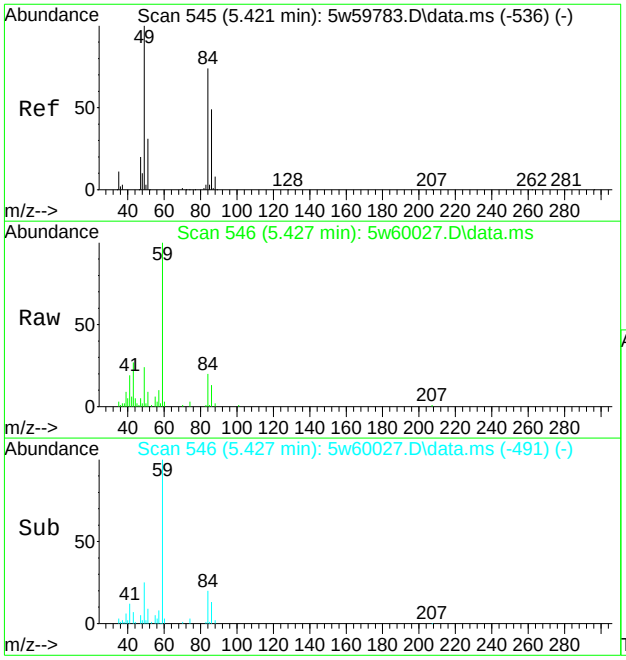


#28
ETHANOL
Concen: 204.1968 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 45 Resp: 3068308

Ion	Ratio	Lower	Upper
45	100		
46	33.3	2.0	62.0
42	8.2	0.0	38.5

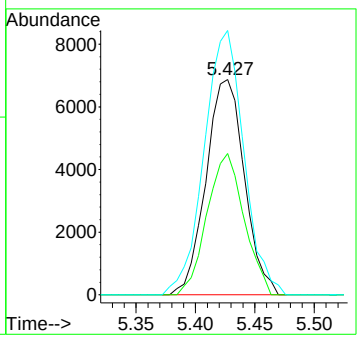


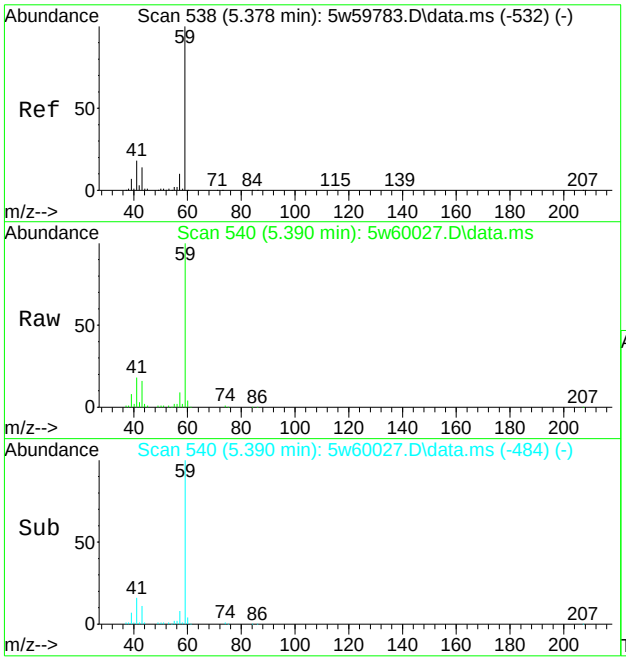


#31
METHYLENE CHLORIDE
Concen: 0.3365 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 84 Resp: 15441

Ion	Ratio	Lower	Upper
84	100		
86	63.0	35.2	95.2
49	126.8	105.3	165.3

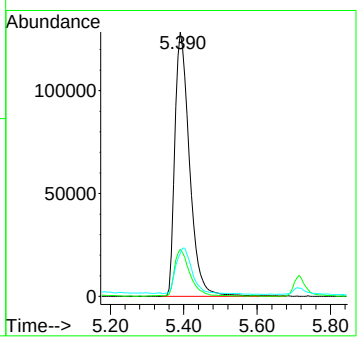


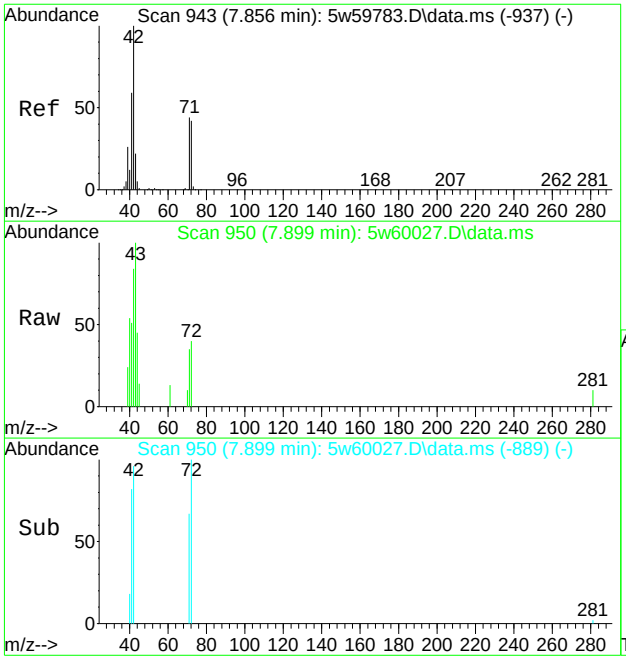


#35
TERTIARY BUTYL ALCOHOL
Concen: 3.9057 PPBV
RT: 5.390 min Scan# 540
Delta R.T. 0.012 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 59 Resp: 358202

Ion	Ratio	Lower	Upper
59	100		
41	19.0	0.0	49.3
43	19.9	0.0	44.1

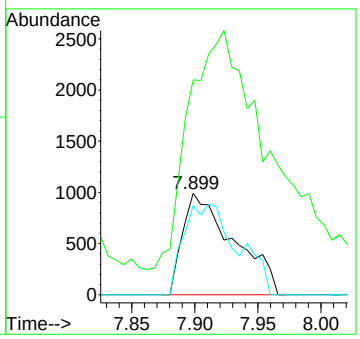


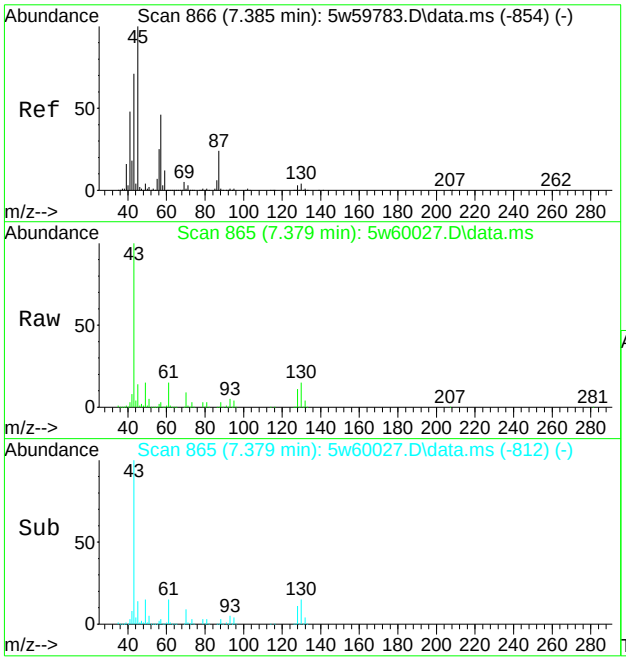


#37
TETRAHYDROFURAN
Concen: 0.1567 PPBV
RT: 7.899 min Scan# 950
Delta R.T. 0.043 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 72 Resp: 2782

Ion	Ratio	Lower	Upper
72	100		
42	0.0	202.4	262.4#
71	0.0	71.1	131.1#

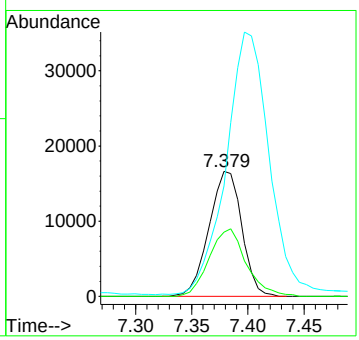


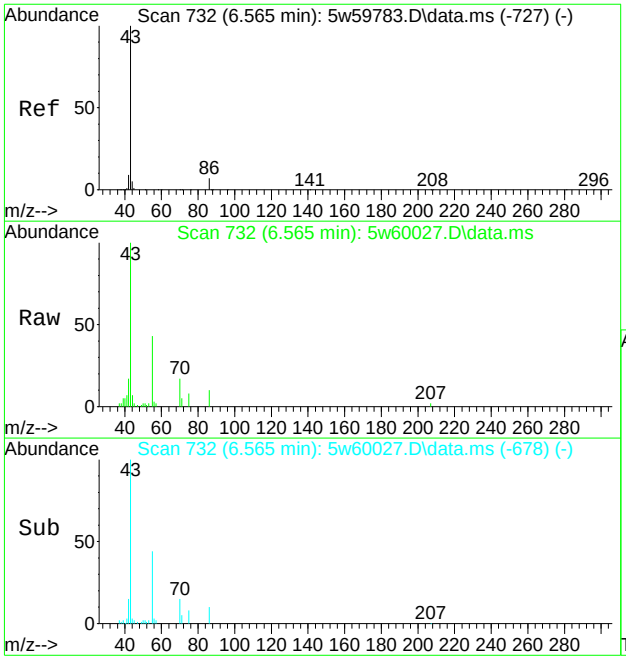


#38
HEXANE
Concen: 0.4644 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 57 Resp: 33910

Ion	Ratio	Lower	Upper
57	100		
56	61.1	25.9	85.9
41	276.8	74.7	134.7#

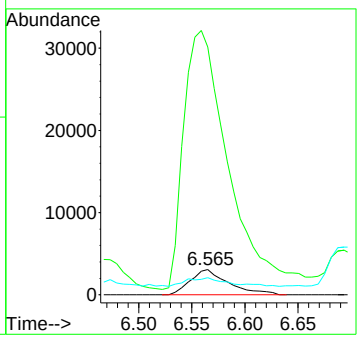


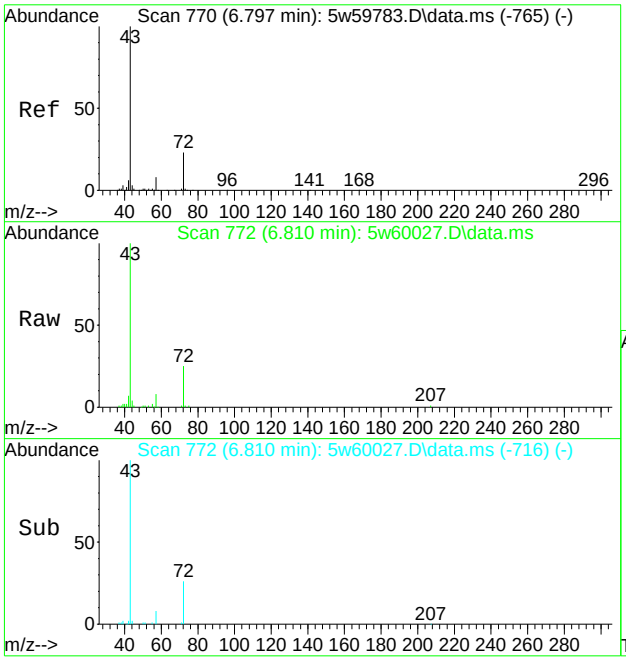


#39
VINYL ACETATE
Concen: 1.0406 PPBV
RT: 6.565 min Scan# 732
Delta R.T. -0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 86 Resp: 7685

Ion	Ratio	Lower	Upper
86	100		
43	1219.1	1379.7	1439.7#
44	47.6	36.9	96.9

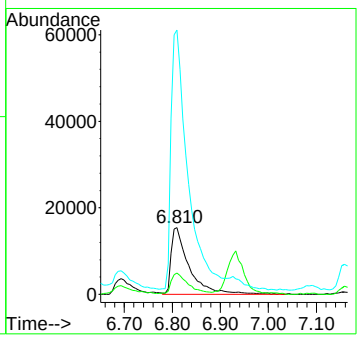


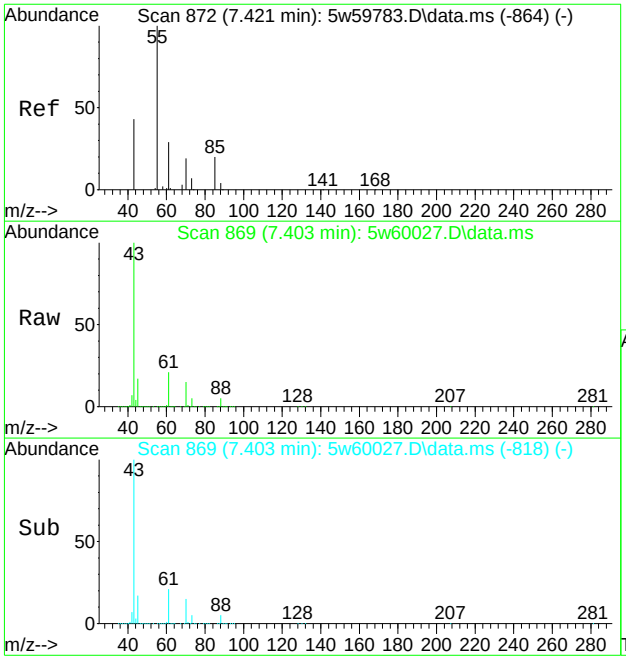


#41
METHYL ETHYL KETONE
Concen: 2.2862 PPBV
RT: 6.810 min Scan# 772
Delta R.T. 0.013 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 72 Resp: 40389

Ion	Ratio	Lower	Upper
72	100		
57	31.9	4.8	64.8
43	395.7	415.9	475.9#

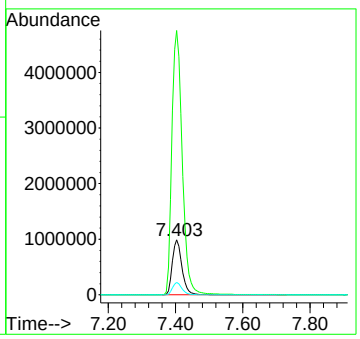


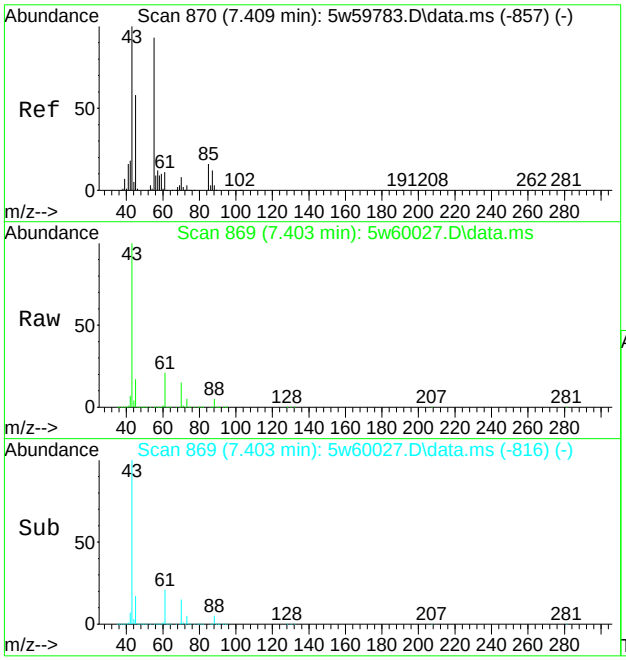


#44
ETHYL ACETATE
Concen: 144.8904 PPBV
RT: 7.403 min Scan# 869
Delta R.T. -0.018 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 61 Resp: 1955965

Ion	Ratio	Lower	Upper
61	100		
43	519.3	560.5	620.5#
88	22.0	4.5	64.5

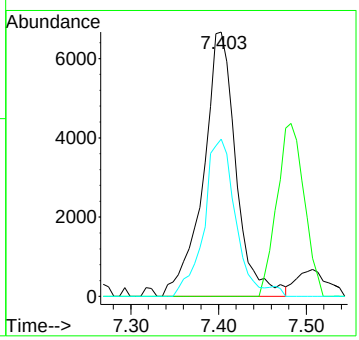


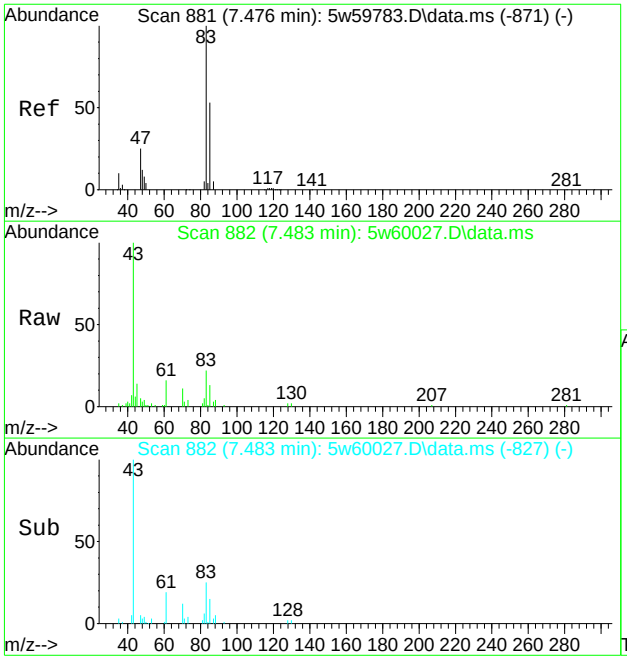


#45
METHYL ACRYLATE
Concen: 0.2386 PPBV
RT: 7.403 min Scan# 869
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 55 Resp: 17257

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	57.9	9.4	17.6#

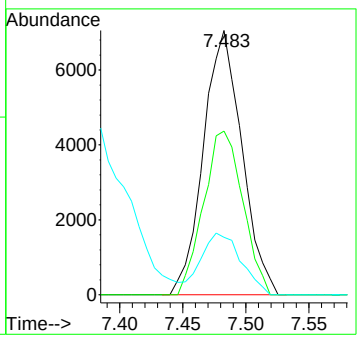


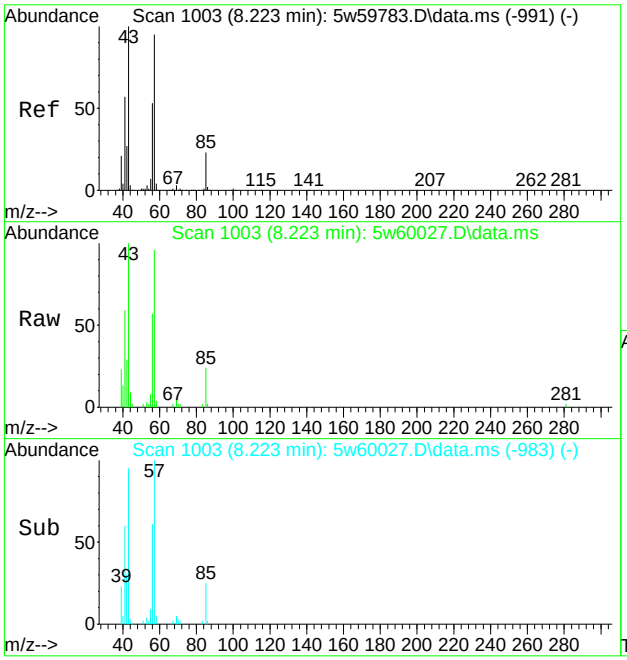


#46
CHLOROFORM
Concen: 0.1470 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 83 Resp: 14948

Ion	Ratio	Lower	Upper
83	100		
85	63.1	35.6	95.6
47	24.8	0.0	55.2

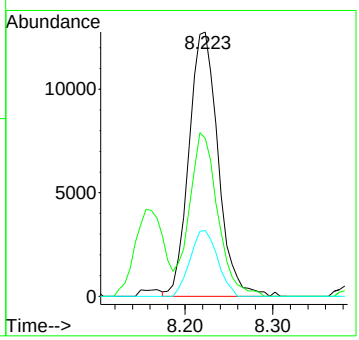


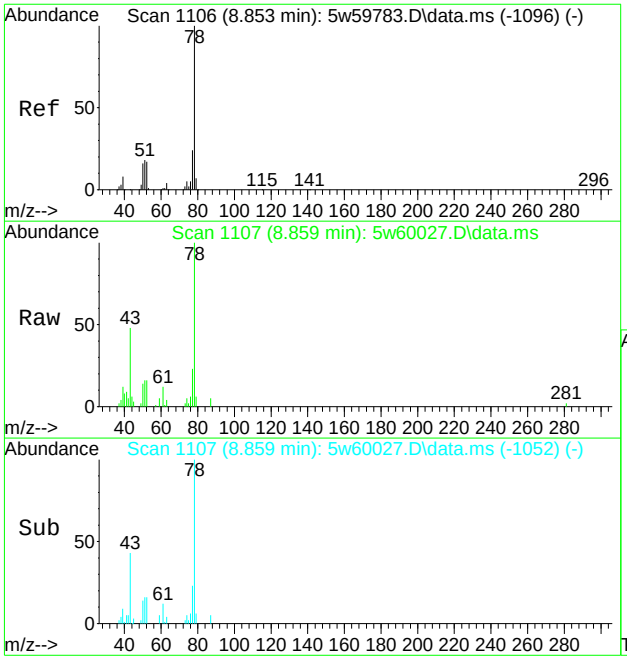


#47
2,4-DIMETHYLPENTANE
Concen: 0.3577 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 57 Resp: 29561

Ion	Ratio	Lower	Upper
57	100		
56	60.1	26.5	86.5
85	23.4	0.0	53.8

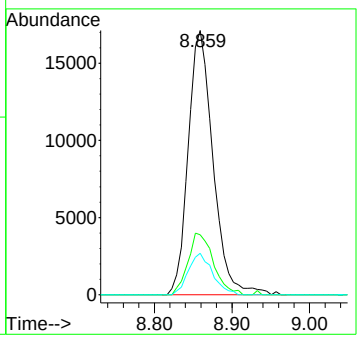


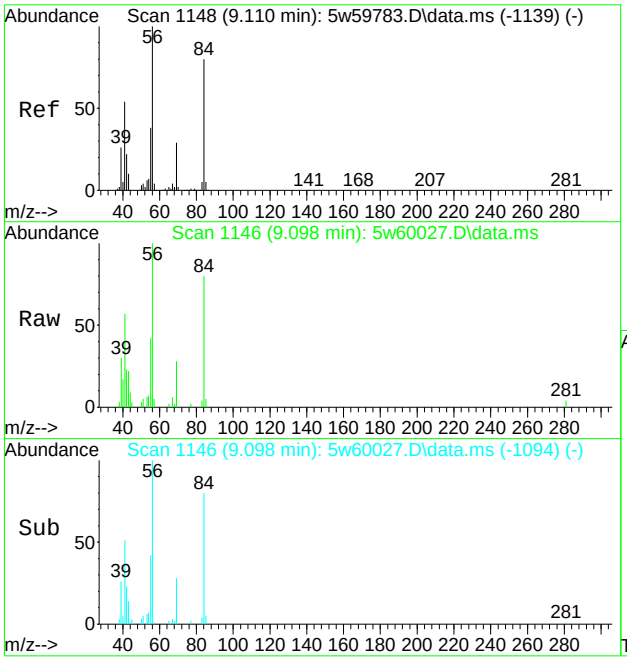


#52
BENZENE
Concen: 0.2799 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 78 Resp: 38071

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.8
52	15.2	0.0	46.9

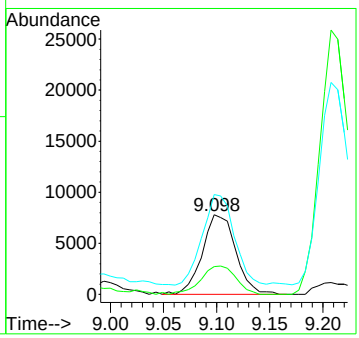


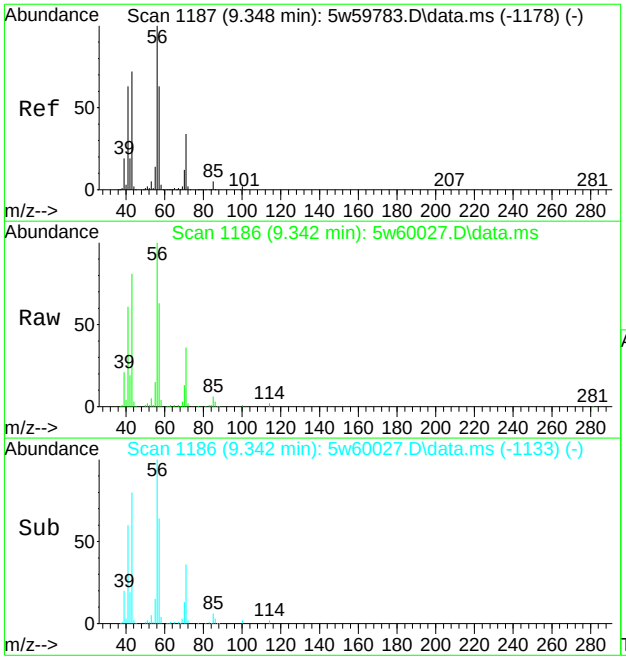


#53
CYCLOHEXANE
Concen: 0.3150 PPBV
RT: 9.098 min Scan# 1146
Delta R.T. -0.012 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 84 Resp: 17118

Ion	Ratio	Lower	Upper
84	100		
69	37.2	6.9	66.9
56	131.1	98.2	158.2

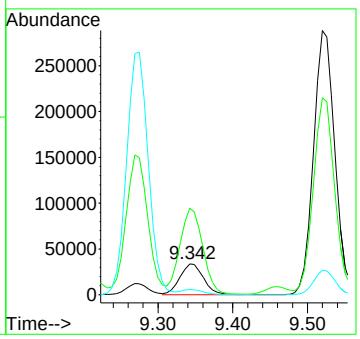


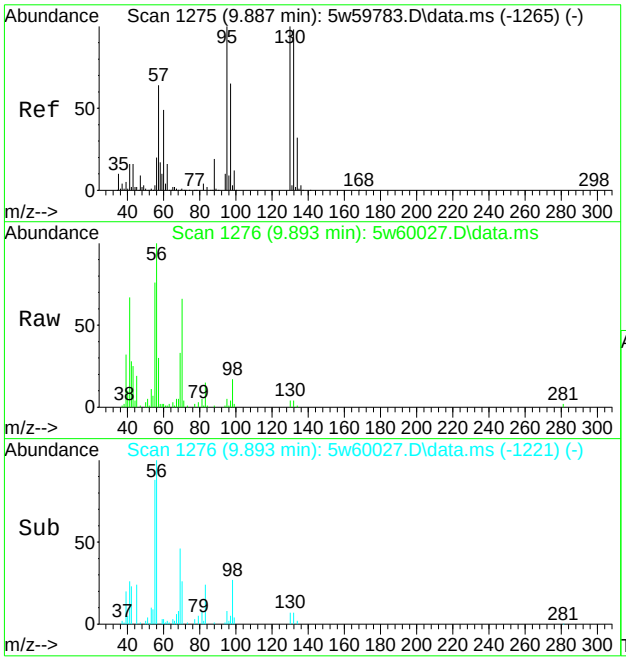


#54
2,3-DIMETHYLPENTANE
Concen: 2.6944 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 71 Resp: 73991

Ion	Ratio	Lower	Upper
71	100		
56	267.1	264.6	324.6
85	16.3	0.0	45.3

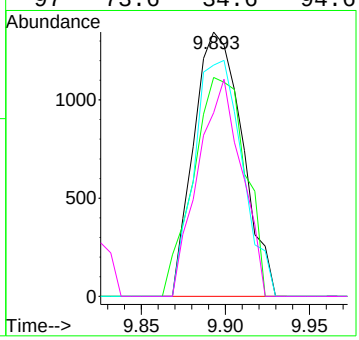


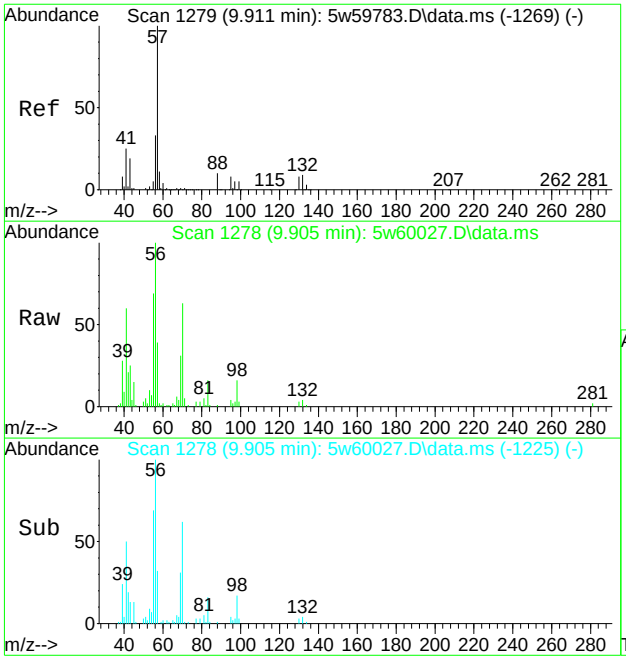


#55
TRICHLOROETHYLENE
Concen: 0.0390 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 95 Resp: 2701

Ion	Ratio	Lower	Upper
95	100		
132	88.4	69.0	129.0
130	88.5	70.6	130.6
97	73.6	34.6	94.6

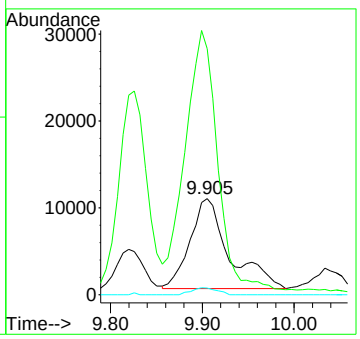


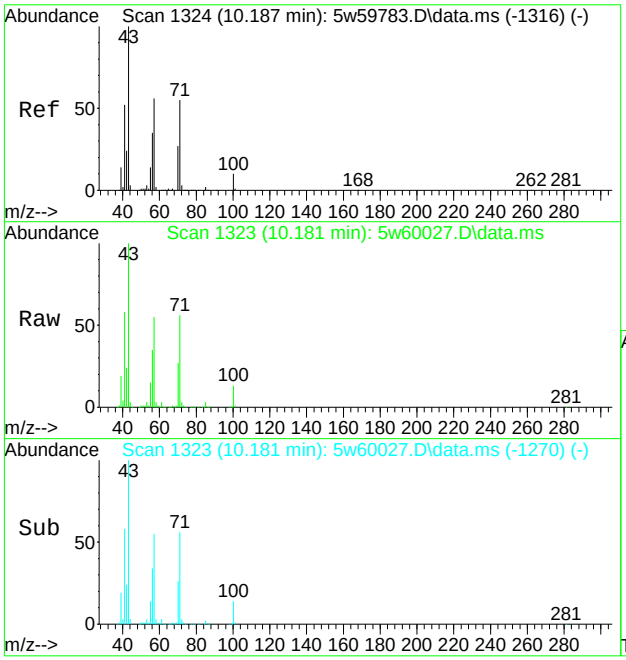


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.1427 PPBV
RT: 9.905 min Scan# 1278
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 57 Resp: 30708

Ion	Ratio	Lower	Upper
57	100		
56	249.8	2.5	62.5#
99	5.1	0.0	37.3

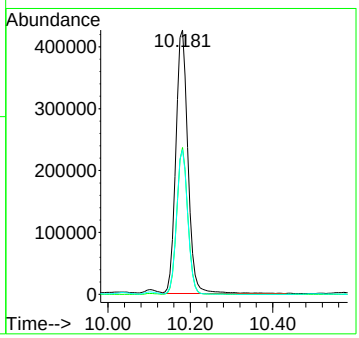


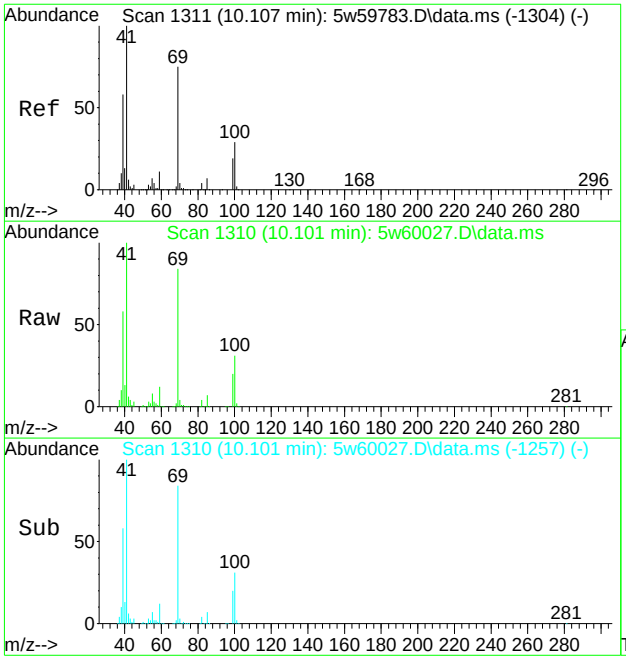


#62
HEPTANE
Concen: 11.0450 PPBV
RT: 10.181 min Scan# 1323
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 43 Resp: 864503

Ion	Ratio	Lower	Upper
43	100		
71	51.0	24.5	84.5
57	51.0	26.2	86.2

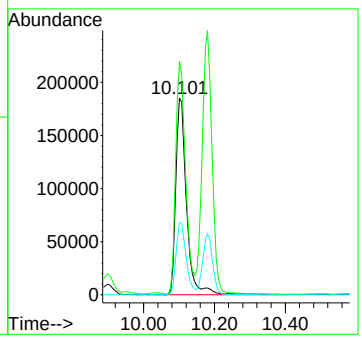


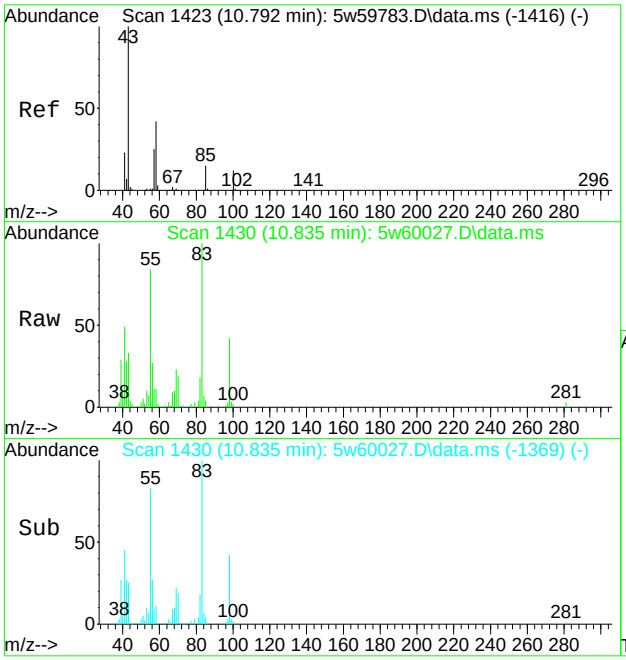


#63
METHYL METHACRYLATE
Concen: 8.7881 PPBV
RT: 10.101 min Scan# 1310
Delta R.T. -0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 69 Resp: 389605

Ion	Ratio	Lower	Upper
69	100		
41	108.8	95.3	155.3
100	35.0	6.3	66.3

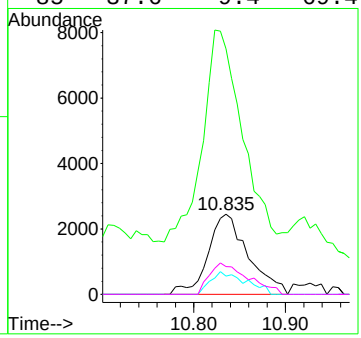


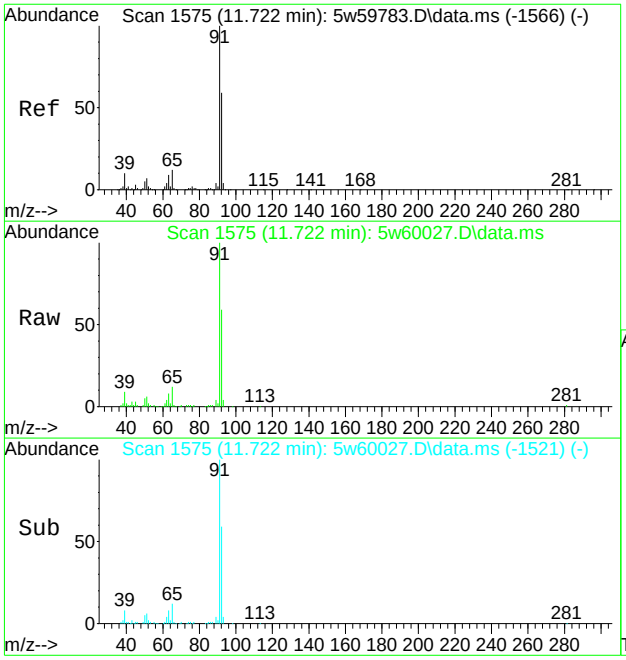


#64
METHYL ISOBUTYL KETONE
Concen: 0.1864 PPBV
RT: 10.835 min Scan# 1430
Delta R.T. 0.043 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 58 Resp: 7479

Ion	Ratio	Lower	Upper
58	100		
43	259.7	209.2	269.2
100	24.6	0.0	58.8
85	37.6	9.4	69.4

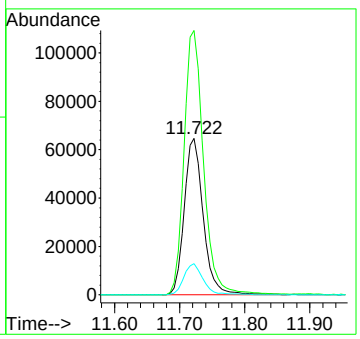


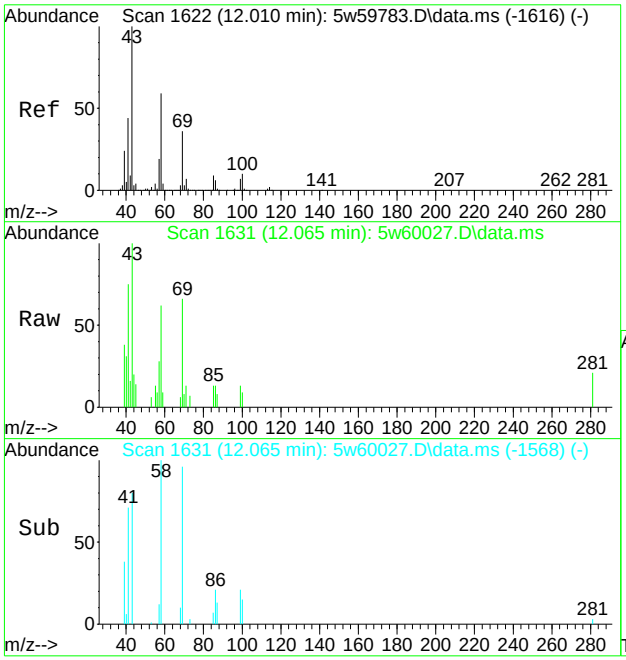


#66
TOLUENE
Concen: 1.2903 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 92 Resp: 131197

Ion	Ratio	Lower	Upper
92	100		
91	174.1	140.1	200.1
65	20.3	0.0	53.1

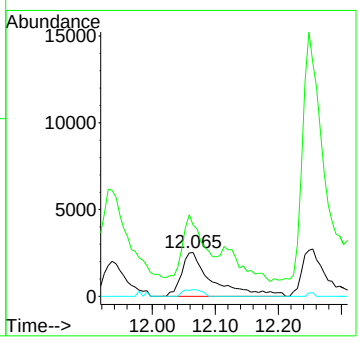


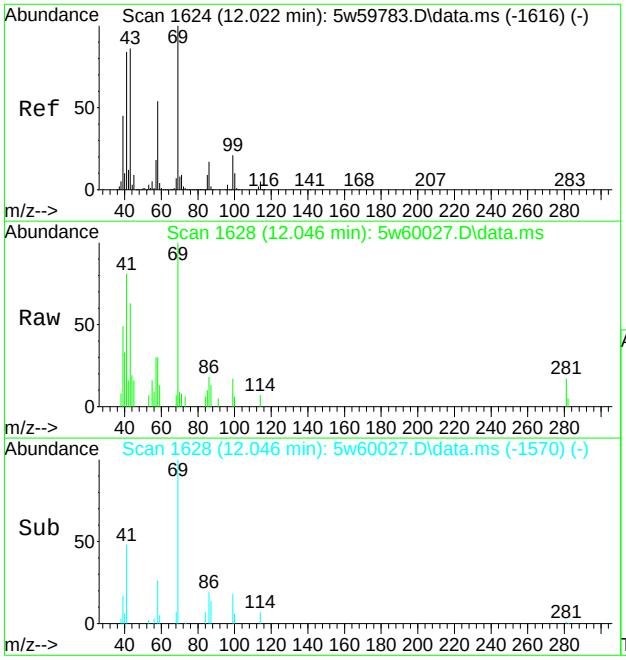


#71
2-HEXANONE
Concen: 0.1702 PPBV
RT: 12.065 min Scan# 1631
Delta R.T. 0.055 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 58 Resp: 8597

Ion	Ratio	Lower	Upper
58	100		
43	153.4	137.2	197.2
100	9.5	0.0	46.9

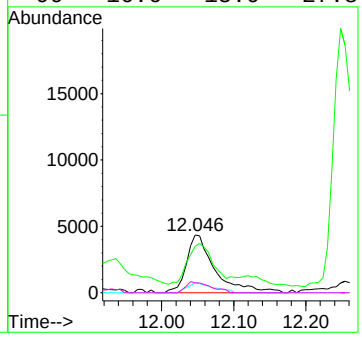


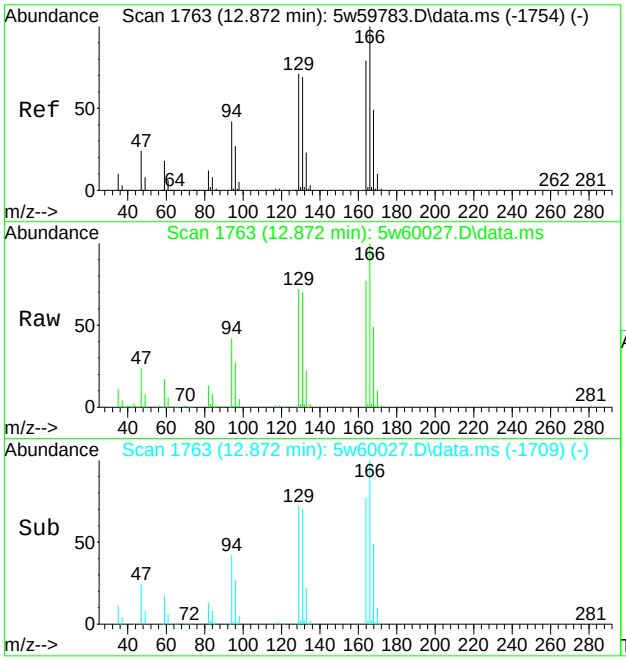


#72
ETHYL METHACRYLATE
Concen: 0.1785 PPBV
RT: 12.046 min Scan# 1628
Delta R.T. 0.024 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 69 Resp: 11912

Ion	Ratio	Lower	Upper
69	100		
41	90.0	64.0	119.0
86	15.7	12.0	22.4
99	16.6	15.0	27.8

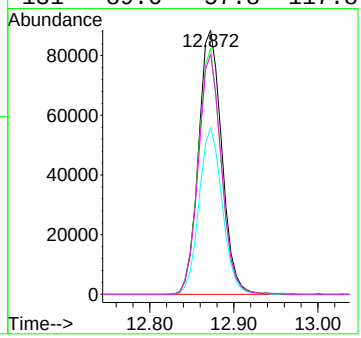


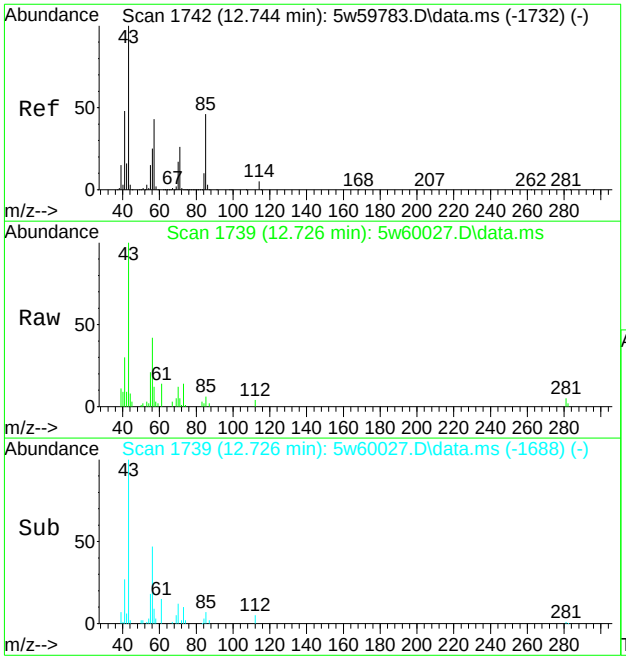


#73
TETRACHLOROETHYLENE
Concen: 2.5954 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:164 Resp: 170988

Ion	Ratio	Lower	Upper
164	100		
129	91.1	59.7	119.7
168	62.7	32.2	92.2
131	89.6	57.8	117.8

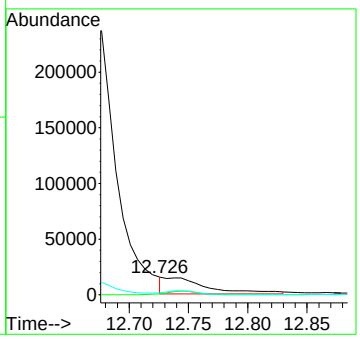


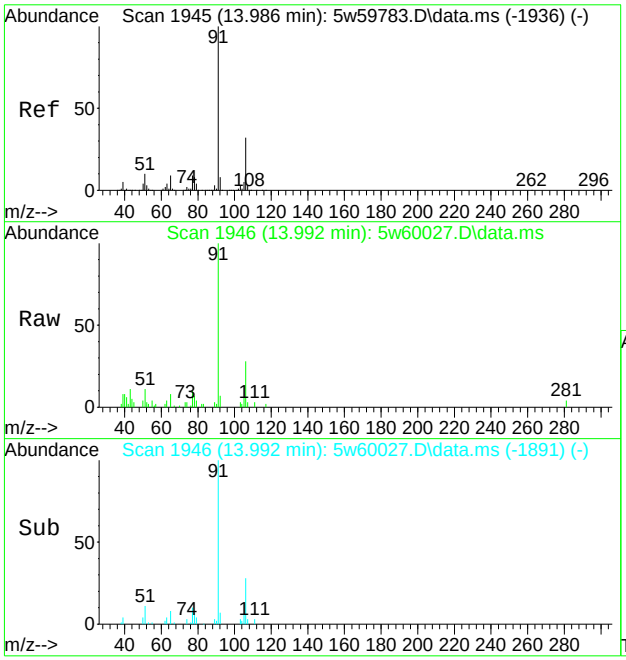


#76
OCTANE
Concen: 0.4183 PPBV m
RT: 12.726 min Scan# 1739
Delta R.T. -0.018 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 43 Resp: 38372

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	64.4	13.7	73.7

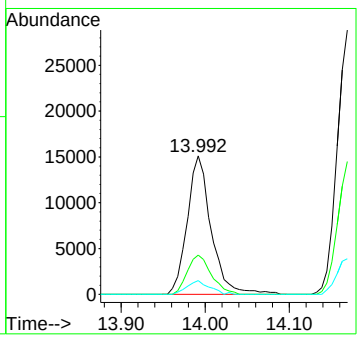


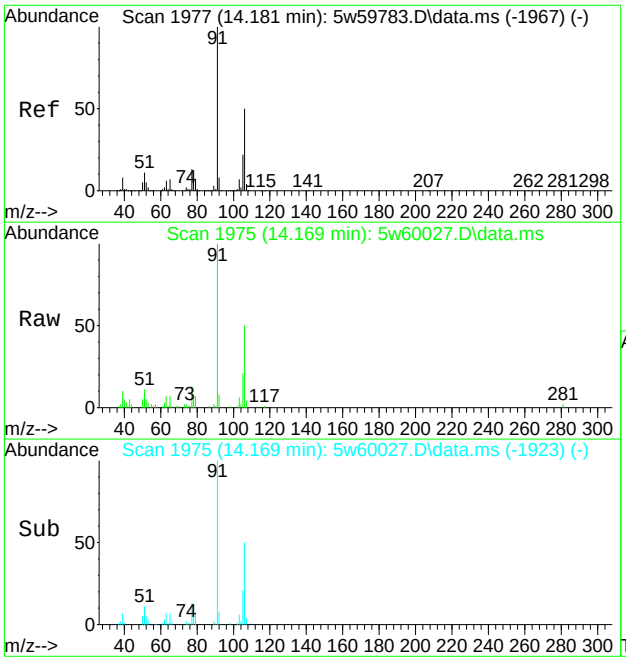


#79
ETHYLBENZENE
Concen: 0.1617 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 91 Resp: 29928

Ion	Ratio	Lower	Upper
91	100		
106	28.4	1.3	61.3
77	9.3	0.0	38.6

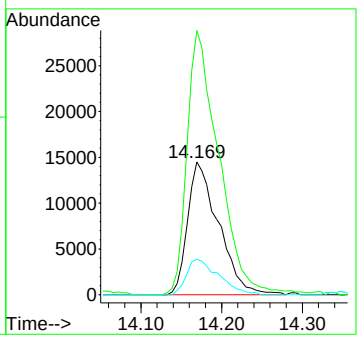


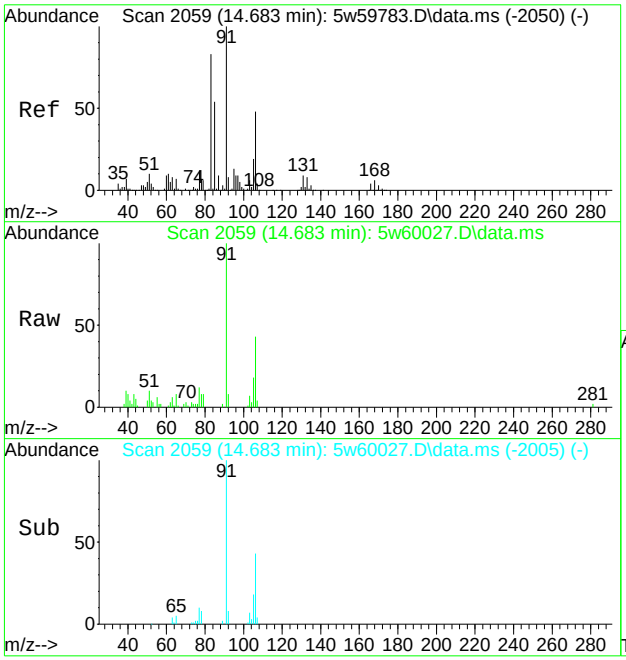


#80
m,p-XYLENE
Concen: 0.5296 PPBV
RT: 14.169 min Scan# 1975
Delta R.T. -0.012 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:106 Resp: 38634

Ion	Ratio	Lower	Upper
106	100		
91	199.2	171.0	231.0
77	26.9	0.0	56.7

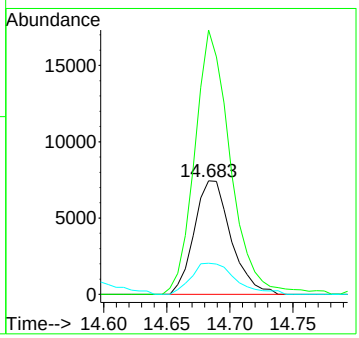


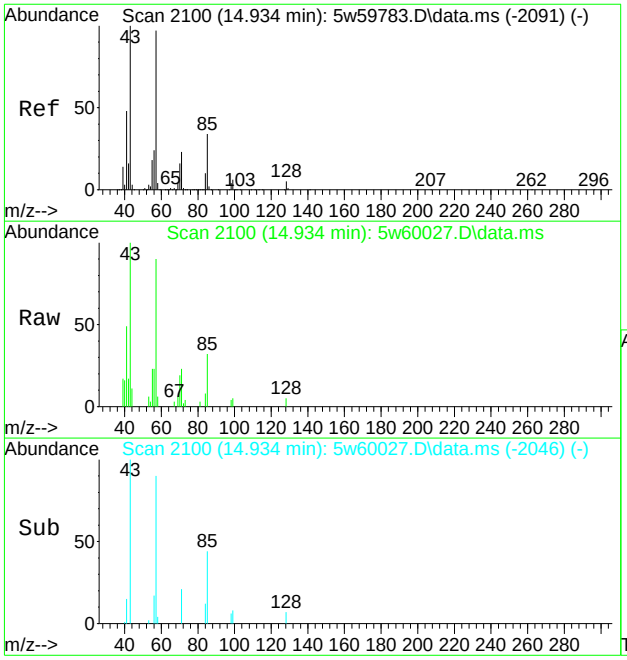


#81
o-XYLENE
Concen: 0.2204 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:106 Resp: 15059

Ion	Ratio	Lower	Upper
106	100		
91	226.6	181.6	241.6
77	33.2	0.0	56.6

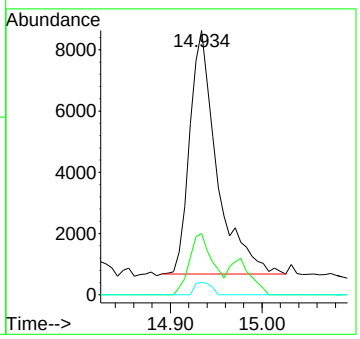


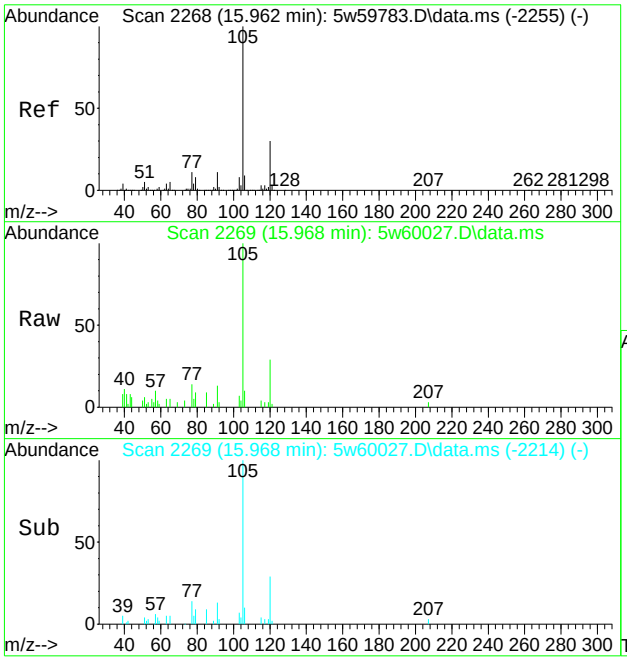


#83
NONANE
Concen: 0.1766 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion: 43 Resp: 16385

Ion	Ratio	Lower	Upper
43	100		
71	21.9	0.0	52.7
128	3.1	0.0	34.7

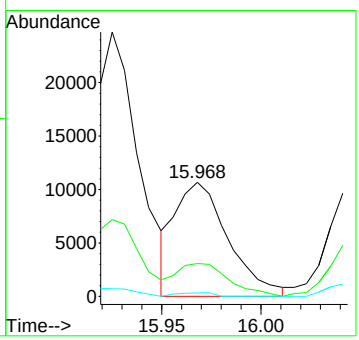


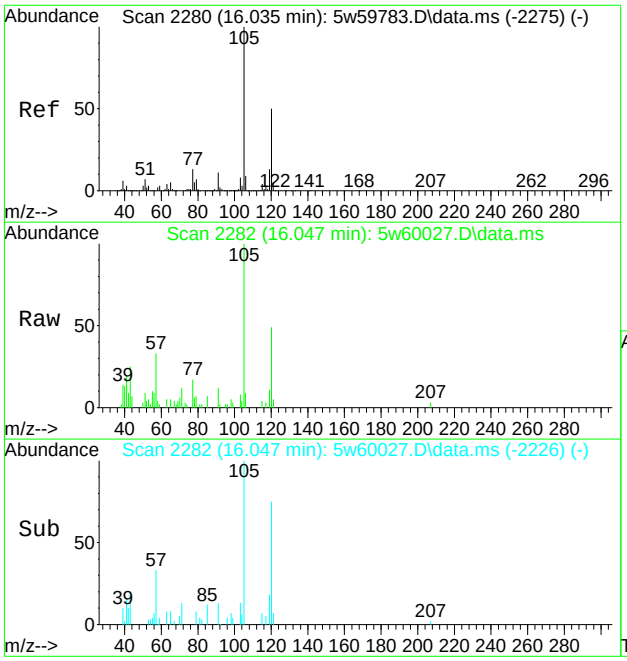


#92
4-ETHYLTOLUENE
Concen: 0.1046 PPBV m
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:105 Resp: 20007

Ion	Ratio	Lower	Upper
105	100		
120	60.3	0.0	59.9#
119	5.5	0.0	32.3

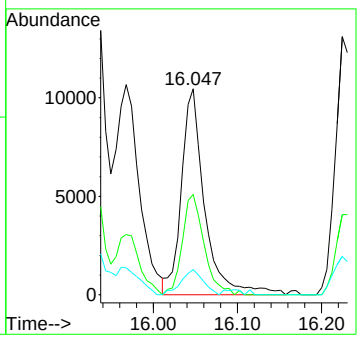


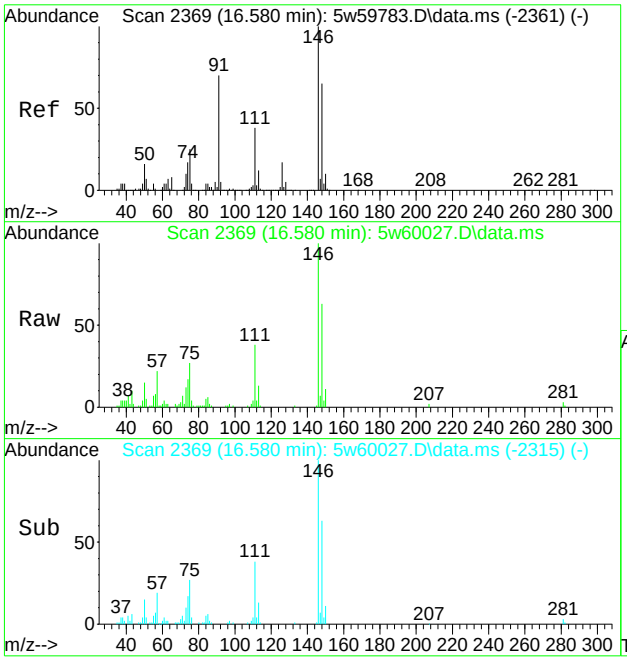


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.1128 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:105 Resp: 20059

Ion	Ratio	Lower	Upper
105	100		
120	45.8	19.4	79.4
91	11.6	0.0	40.8

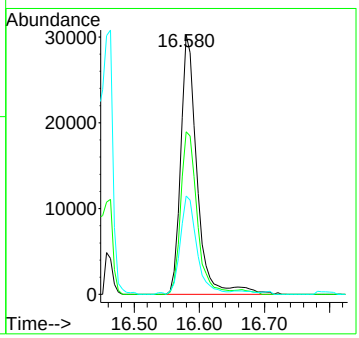


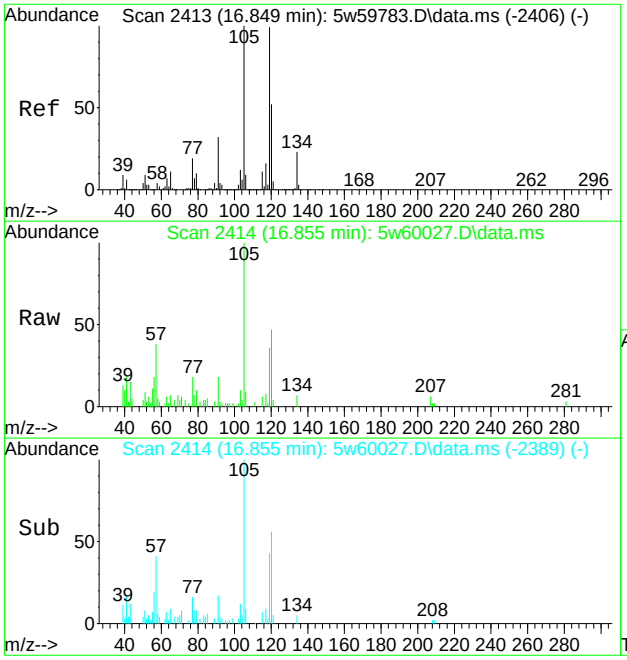


#97
m-DICHLOROBENZENE
Concen: 0.4176 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. -0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:146 Resp: 52991

Ion	Ratio	Lower	Upper
146	100		
148	64.8	34.8	94.8
111	40.3	8.2	68.2

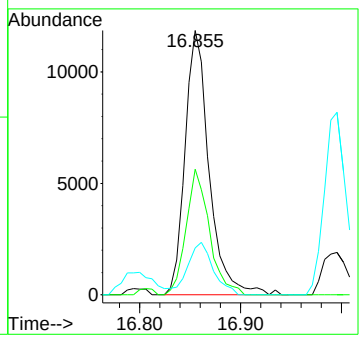


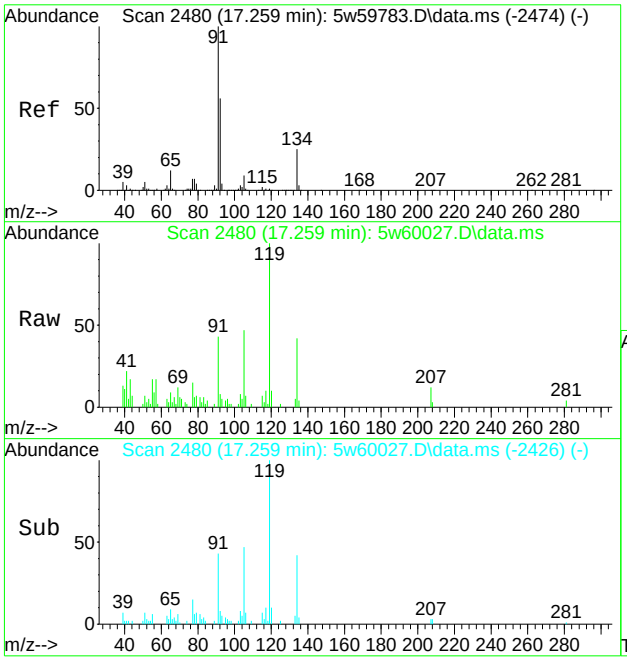


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.1120 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:105 Resp: 19663

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.5	83.5
91	20.8	7.4	67.4

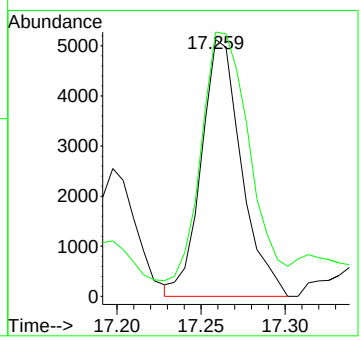


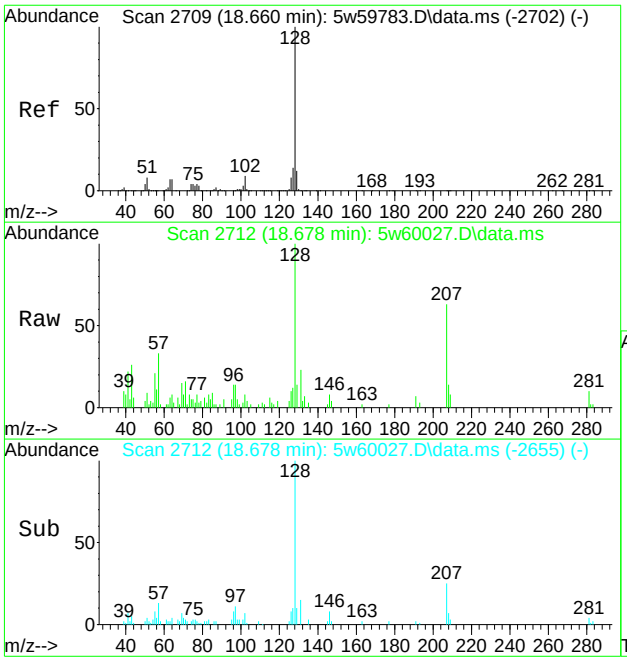


#104
n-BUTYLBENZENE
Concen: 0.1678 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:134 Resp: 8522

Ion	Ratio	Lower	Upper
134	100		
91	152.3	363.1	423.1#

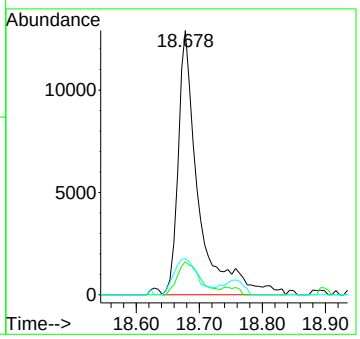




#108
NAPHTHALENE
Concen: 0.1121 PPBV
RT: 18.678 min Scan# 2712
Delta R.T. 0.018 min
Lab File: 5w60027.D
Acq: 25 Nov 2025 6:37 am

Tgt Ion:128 Resp: 28820

Ion	Ratio	Lower	Upper
128	100		
127	16.3	0.0	43.3
129	16.4	0.0	41.4



Manual Integration Approval Summary

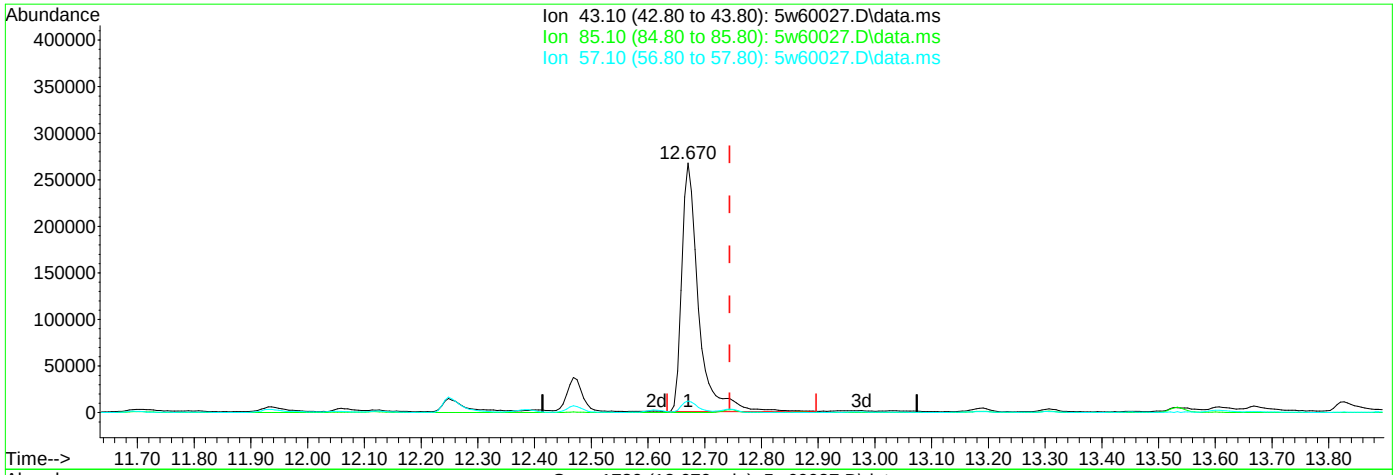
Sample Number: JE23789-1 **Method:** TO-15
Lab FileID: 5W60027.D **Analyst approved:** 11/26/25 14:14 Claire Basilio
Injection Time: 11/25/25 06:37 **Supervisor approved:** 11/26/25 15:30 Kanya Veerawat

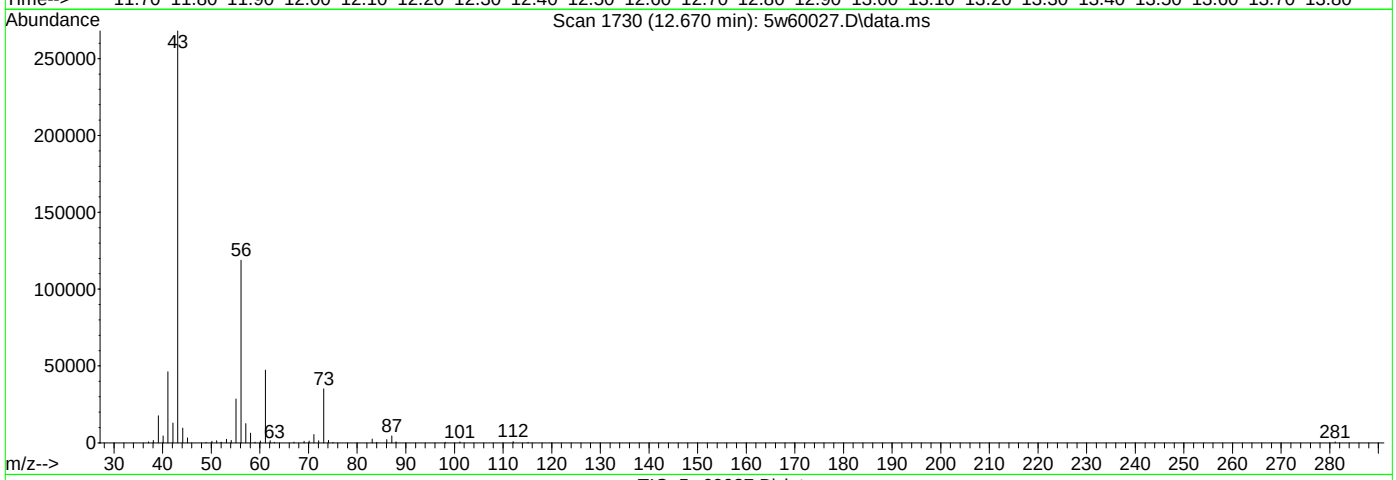
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octane	111-65-9		12.73	Missed peak
4-Ethyltoluene	622-96-8		15.97	Missed peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60027.D
Acq On : 25 Nov 2025 6:37 am
Operator : benk
Sample : je23789-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 05:42:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration





TIC: 5w60027.D\data.ms

(76) OCTANE

12.670min (-0.074) 6.01PPBV

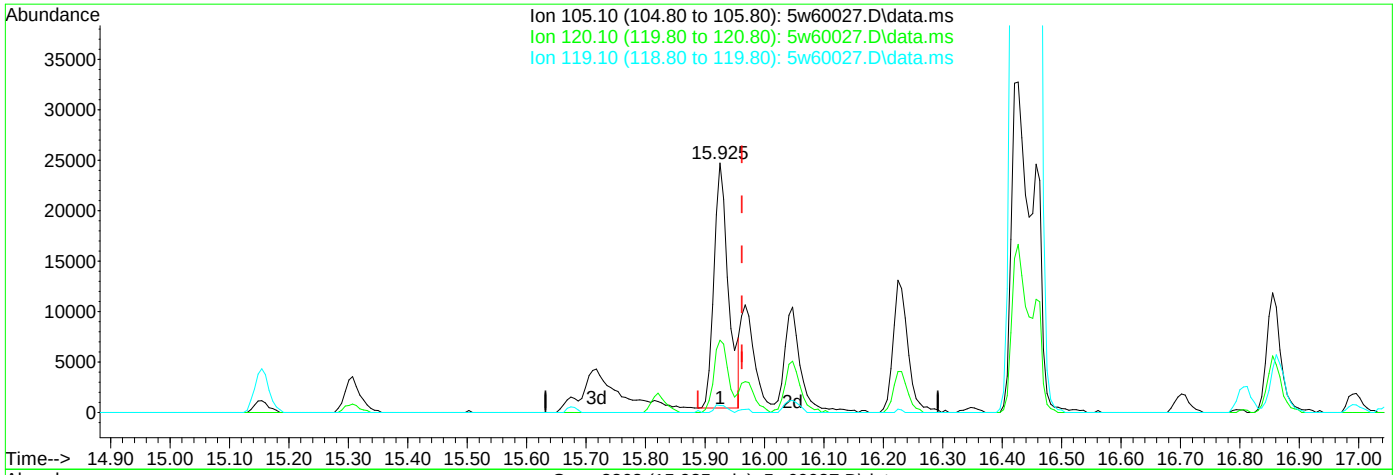
response 551166

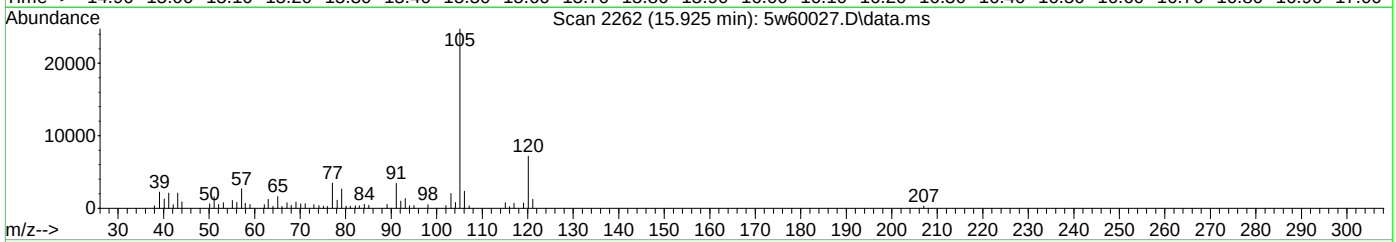
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	4.48#
0.00	0.00	0.00

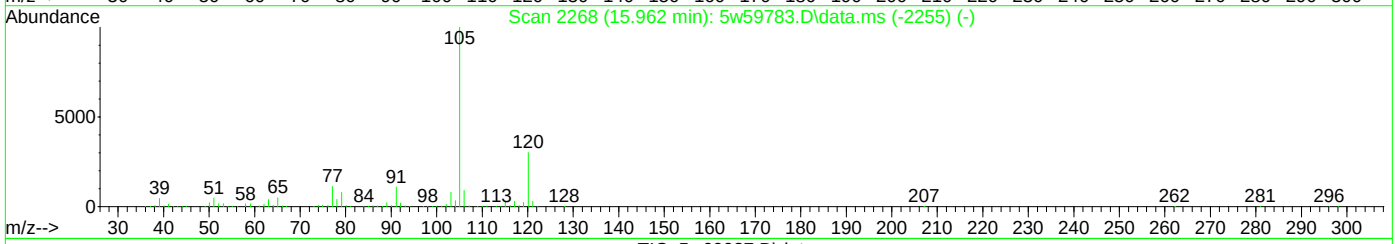
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60027.D
Acq On : 25 Nov 2025 6:37 am
Operator : benk
Sample : je23789-1 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 05:42:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60027.D\data.ms

(92) 4-ETHYLTOLUENE

15.925min (-0.037) 0.22PPBV

response 41194

Ion	Exp%	Act%
105.10	100	100
120.10	29.90	29.28
119.10	2.30	2.69
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18783.D
Acq On : 24 Nov 2025 11:51 pm
Operator : williamc
Sample : je23789-2 Inst : MS7W
Misc : MS99437,v7w655,500,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 26 03:20:30 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

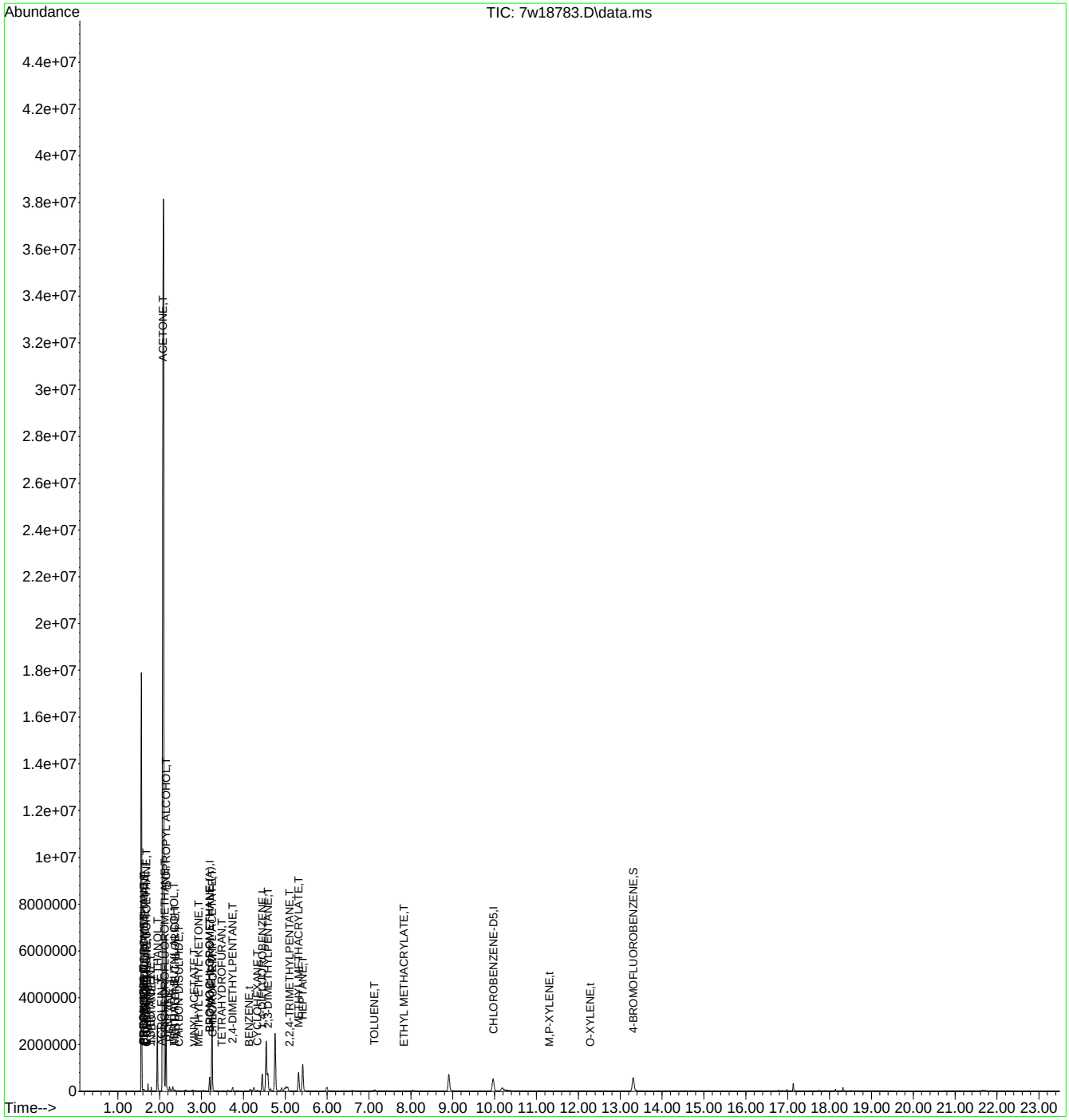
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	116415	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	572502	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	539294	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	116415	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	404712	9.32	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	14023	1.9247	PPBV		99
4) CHLORODIFLUOROMETHANE	1.614	67	2283	0.7218	PPBV	#	76
6) DICHLORODIFLUOROMETHANE	1.643	85	15518	0.5566	PPBV	#	94
7) PROPYLENE	1.627	41	10589	1.1229	PPBV		81
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	7149	0.2882	PPBV	#	80
10) CHLOROMETHANE	1.688	52	2379	0.5950	PPBV		95
12) 1,3-BUTADIENE	1.782	54	1071	0.0958	PPBV	#	1
13) N-BUTANE	1.801	43	70804	3.7418	PPBV		97
18) ACROLEIN	2.036	56	5489	0.8738	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.119	101	18065	0.5966	PPBV		95
22) ISOPROPYL ALCOHOL	2.151	45	3987520	155.3997	PPBV	#	90
23) ACETONE	2.074	58	19657865	2802.0159	PPBV	#	14
24) PENTANE	2.235	42	38790	2.7913	PPBV		93
27) CARBON DISULFIDE	2.457	76	5589	0.1707	PPBV	#	79
28) ETHANOL	1.946	45	1841209	269.5274	PPBV		98
31) METHYLENE CHLORIDE	2.370	84	5662	0.5004	PPBV		90
35) TERTIARY BUTYL ALCOHOL	2.341	59	11360	0.3543	PPBV	#	1
37) TETRAHYDROFURAN	3.476	72	2650	0.4523	PPBV		68
38) HEXANE	3.235	57	6927	0.2847	PPBV	#	1
39) VINYL ACETATE	2.817	86	769	0.2215	PPBV	#	1
41) METHYL ETHYL KETONE	2.923	72	2522	0.3798	PPBV	#	1
44) ETHYL ACETATE	3.248	61	420006	90.0552	PPBV	#	1
46) CHLOROFORM	3.267	83	10509	0.4136	PPBV	#	83
47) 2,4-DIMETHYLPENTANE	3.740	57	62221	2.2847	PPBV		95
51) BENZENE	4.129	78	10961	0.2812	PPBV		90
53) CYCLOHEXANE	4.335	84	10626	0.6344	PPBV	#	69
54) 2,3-DIMETHYLPENTANE	4.582	71	107394	12.8574	PPBV	#	89
60) 2,2,4-TRIMETHYLPENTANE	5.097	57	8525	0.1103	PPBV	#	50
62) HEPTANE	5.418	43	595539	23.3332	PPBV		90
63) METHYL METHACRYLATE	5.315	69	308066	21.4796	PPBV		86
66) TOLUENE	7.129	91	57200	1.2583	PPBV		99
71) ETHYL METHACRYLATE	7.830	69	9731	0.4067	PPBV		93
80) M,P-XYLENE	11.302	91	9981	0.2041	PPBV		80
81) O-XYLENE	12.280	91	5049	0.1064	PPBV	#	76

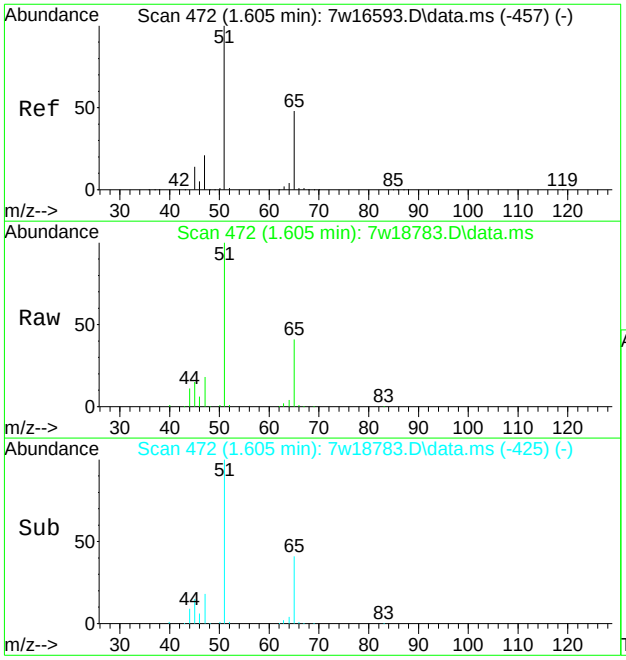
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18783.D
Acq On : 24 Nov 2025 11:51 pm
Operator : williamc
Sample : je23789-2 Inst : MS7W
Misc : MS99437,v7w655,500,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 26 03:20:30 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

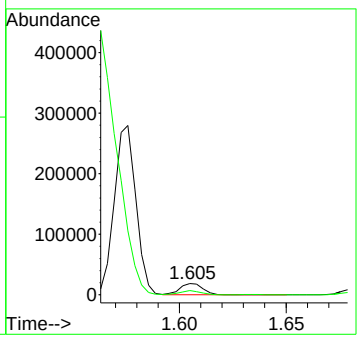


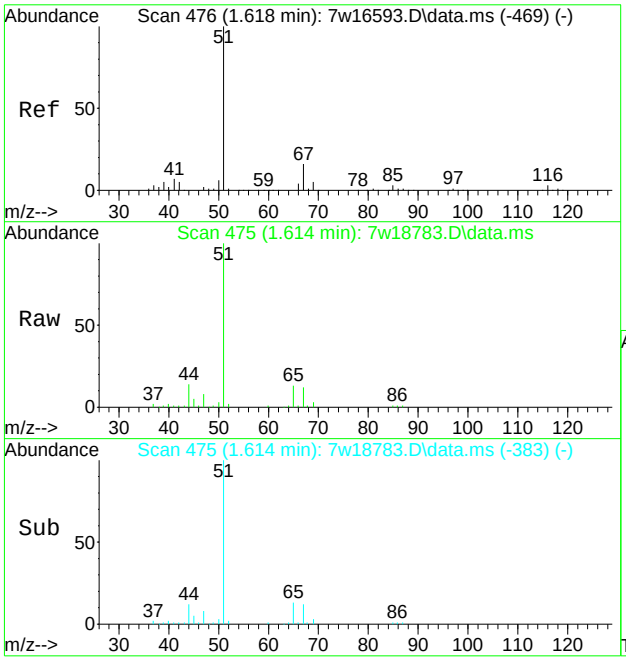


#3
FREON 152A
Concen: 1.9247 PPBV
RT: 1.605 min Scan# 472
Delta R.T. -0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 65 Resp: 14023

Ion	Ratio	Lower	Upper
65	100		
45	33.7	23.0	42.8

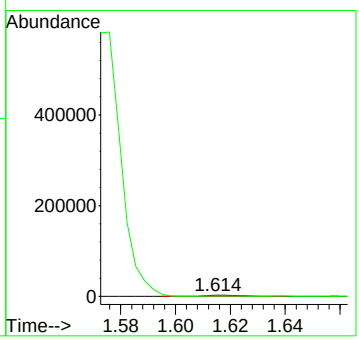


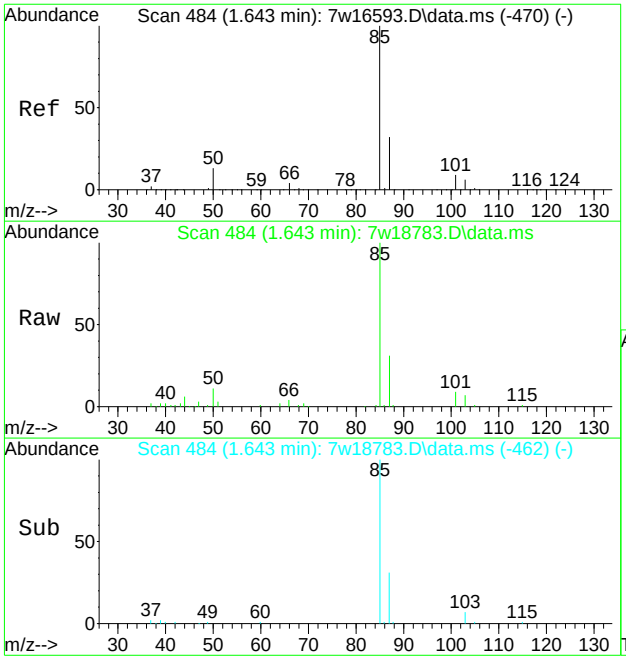


#4
CHLORODIFLUOROMETHANE
Concen: 0.7218 PPBV
RT: 1.614 min Scan# 475
Delta R.T. -0.004 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 67 Resp: 2283

Ion	Ratio	Lower	Upper
67	100		
69	50.3	25.3	47.1#

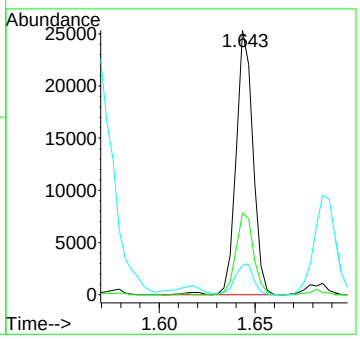


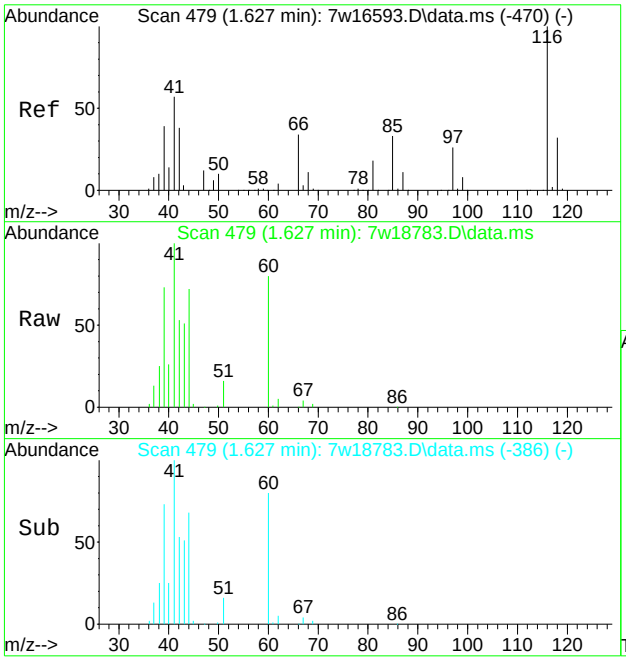


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5566 PPBV
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 85 Resp: 15518

Ion	Ratio	Lower	Upper
85	100		
87	32.4	23.0	42.6
50	12.7	13.5	25.1#

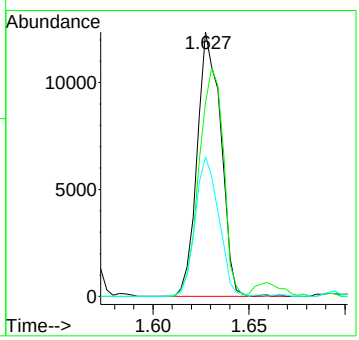


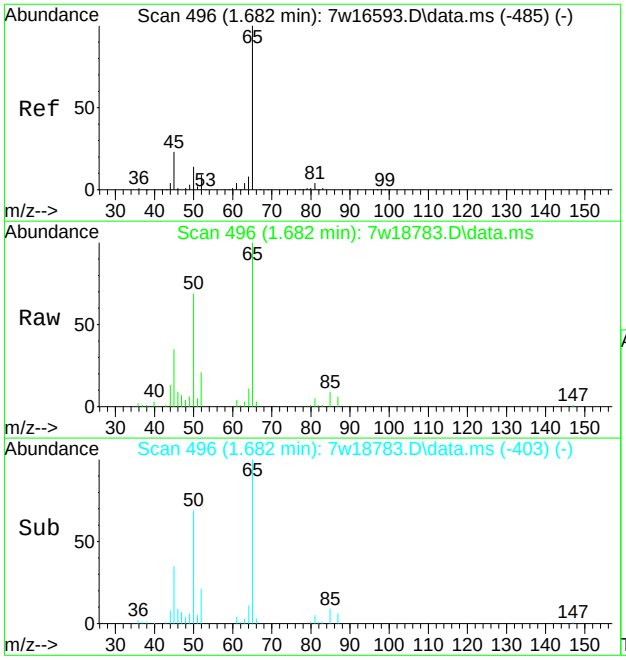


#7
PROPYLENE
Concen: 1.1229 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 41 Resp: 10589

Ion	Ratio	Lower	Upper
41	100		
39	88.9	50.5	93.7
42	52.9	47.0	87.4

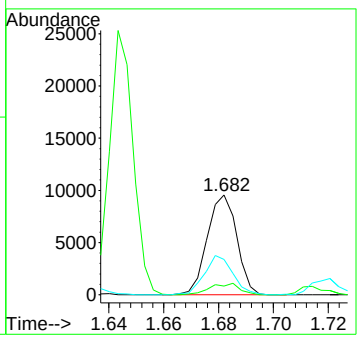


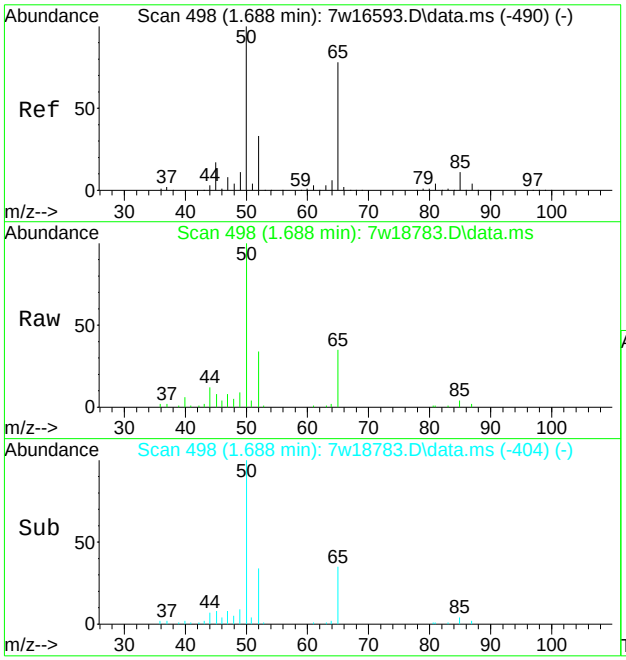


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.2882 PPBV
RT: 1.682 min Scan# 496
Delta R.T. -0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 65 Resp: 7149

Ion	Ratio	Lower	Upper
65	100		
85	11.6	9.4	17.4
45	38.0	16.9	31.3#

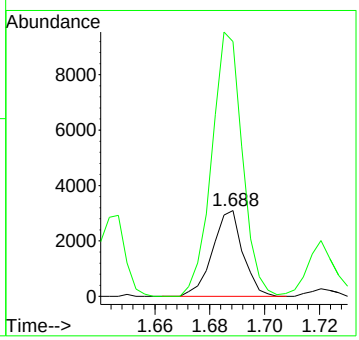


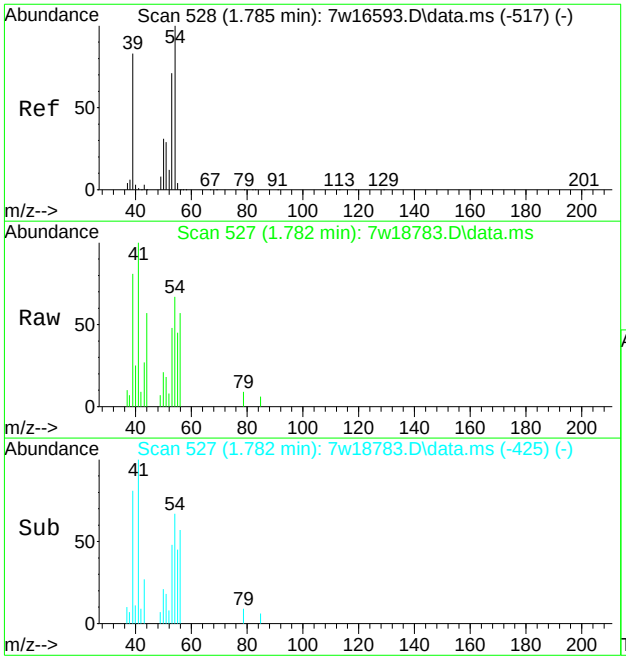


#10
CHLOROMETHANE
Concen: 0.5950 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 52 Resp: 2379

Ion	Ratio	Lower	Upper
52	100		
50	311.7	225.6	419.0

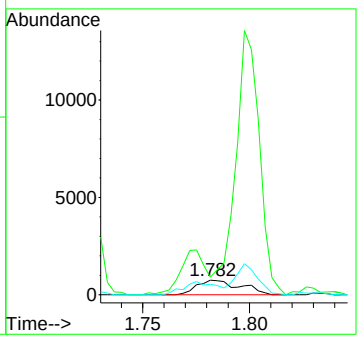


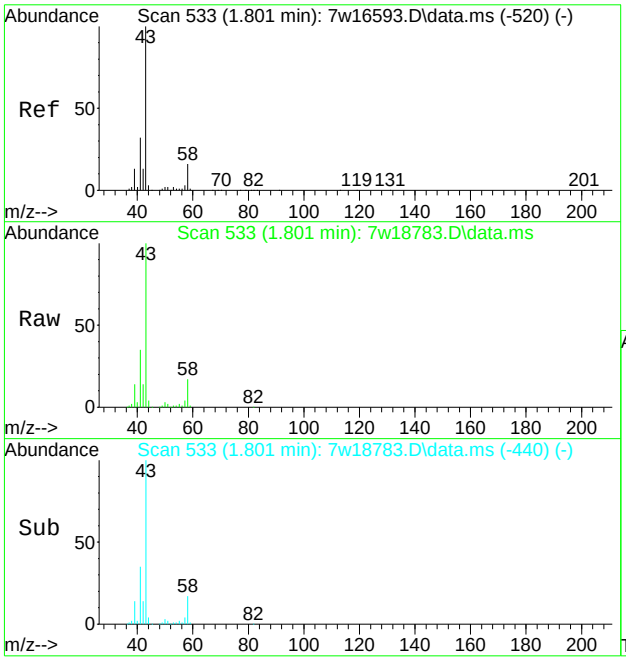


#12
1,3-BUTADIENE
Concen: 0.0958 PPBV
RT: 1.782 min Scan# 527
Delta R.T. -0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 54 Resp: 1071

Ion	Ratio	Lower	Upper
54	100		
39	1169.6	78.4	138.4#
53	175.9	40.9	100.9#

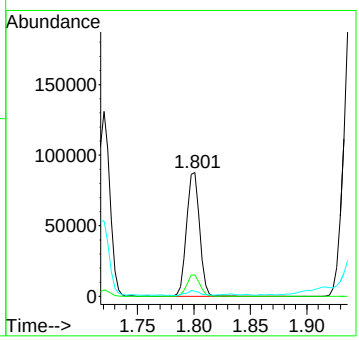


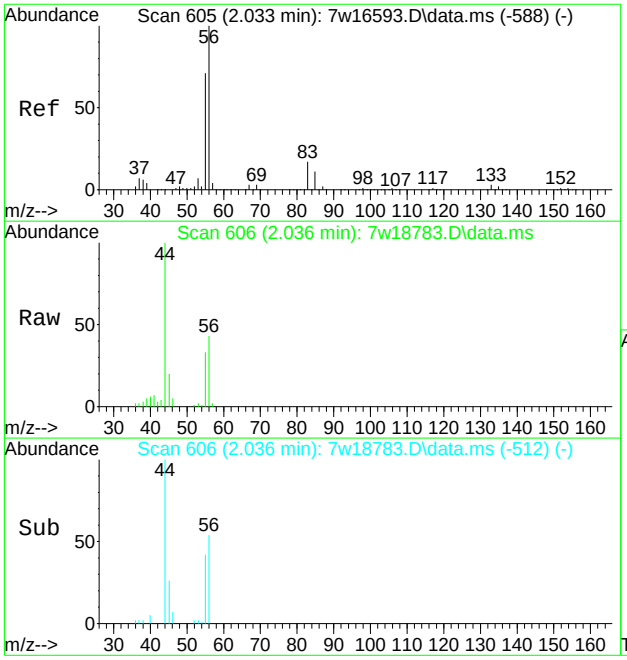


#13
N-BUTANE
Concen: 3.7418 PPBV
RT: 1.801 min Scan# 533
Delta R.T. -0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 43 Resp: 70804

Ion	Ratio	Lower	Upper
43	100		
58	17.4	11.0	20.4
44	3.5	2.6	4.8

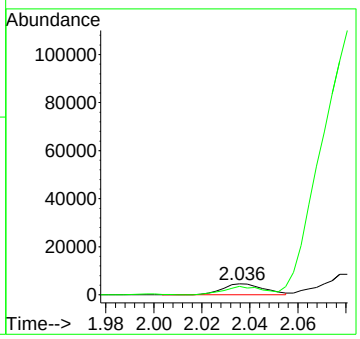


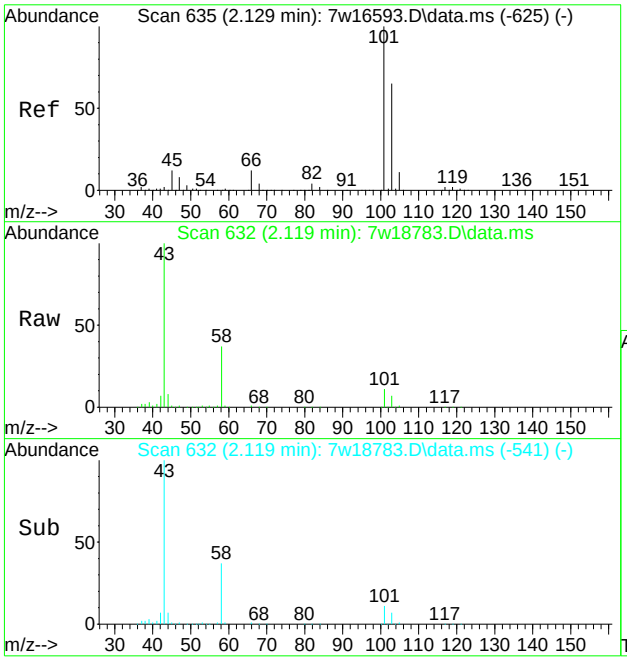


#18
ACROLEIN
Concen: 0.8738 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.004 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 56 Resp: 5489

Ion	Ratio	Lower	Upper
56	100		
55	69.1	48.9	90.7

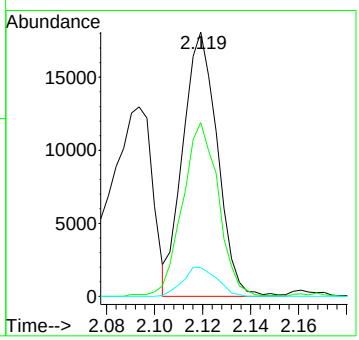


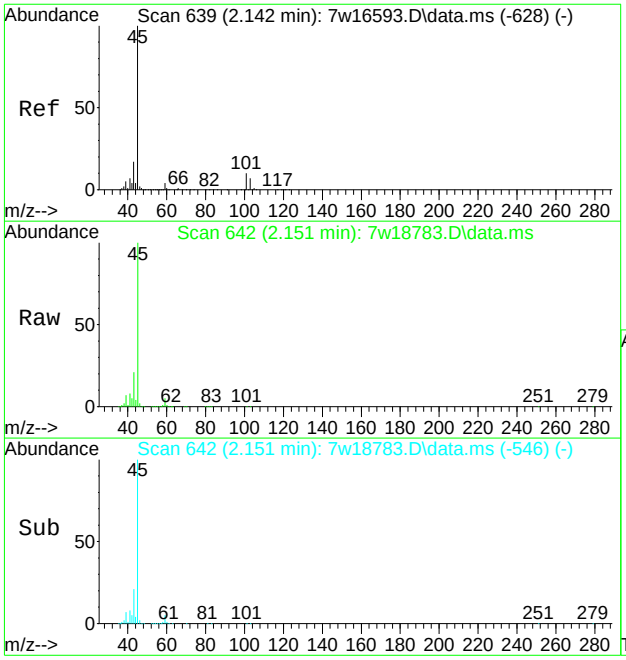


#21
TRICHLOROFLUOROMETHANE
Concen: 0.5966 PPBV
RT: 2.119 min Scan# 632
Delta R.T. -0.007 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion:101 Resp: 18065

Ion	Ratio	Lower	Upper
101	100		
103	68.6	45.2	84.0
105	11.0	7.3	13.5

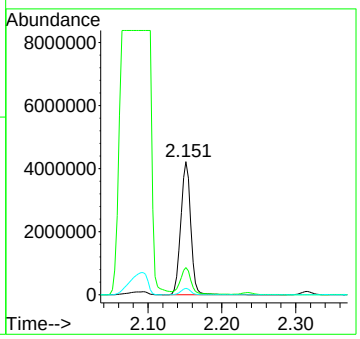


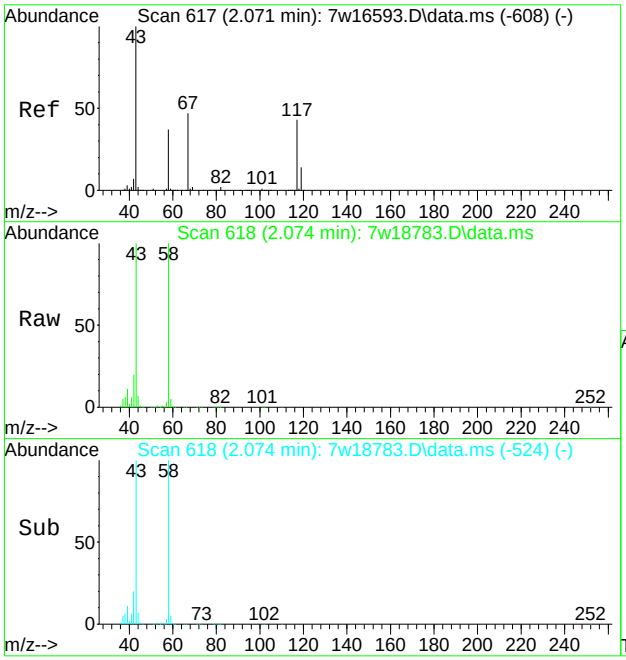


#22
ISOPROPYL ALCOHOL
Concen: 155.3997 PPBV
RT: 2.151 min Scan# 642
Delta R.T. 0.009 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 45 Resp: 3987520

Ion	Ratio	Lower	Upper
45	100		
43	23.3	12.5	23.3#
59	4.9	3.1	5.7

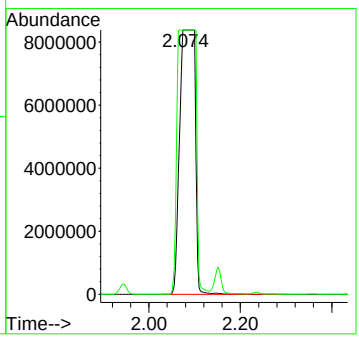


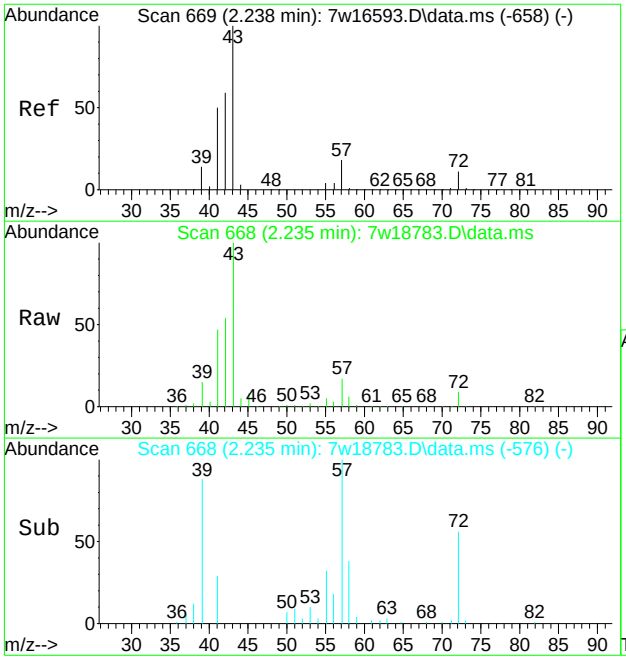


#23
ACETONE
Concen: 2802.0159 PPBV
RT: 2.074 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 58 Resp:19657865

Ion	Ratio	Lower	Upper
58	100		
43	120.3	198.6	368.8#

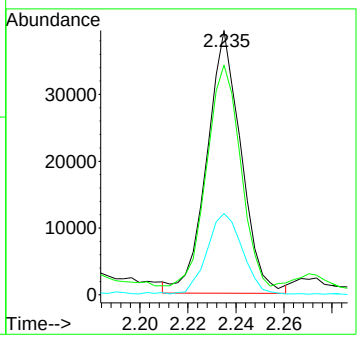


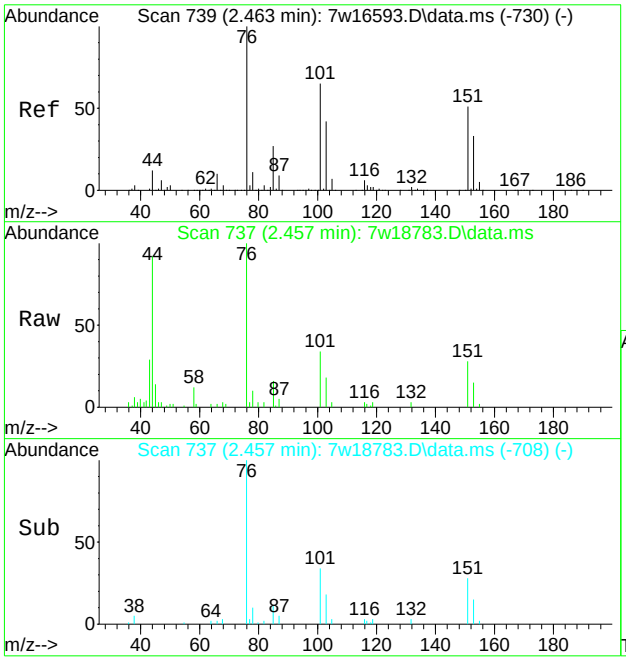


#24
PENTANE
Concen: 2.7913 PPBV
RT: 2.235 min Scan# 668
Delta R.T. -0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 42 Resp: 38790

Ion	Ratio	Lower	Upper
42	100		
41	91.5	59.8	111.0
57	33.4	21.1	39.1

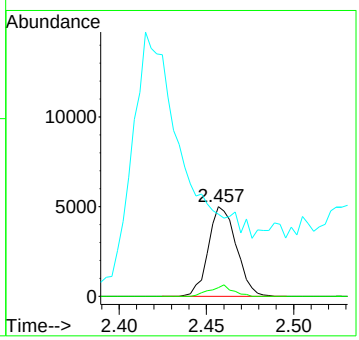


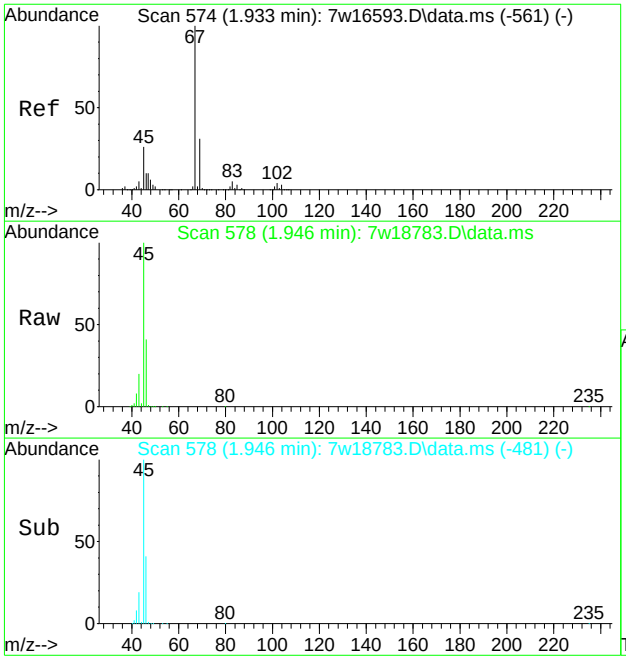


#27
CARBON DISULFIDE
Concen: 0.1707 PPBV
RT: 2.457 min Scan# 737
Delta R.T. -0.006 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 76 Resp: 5589

Ion	Ratio	Lower	Upper
76	100		
78	10.2	7.7	14.3
44	0.0	10.2	19.0#

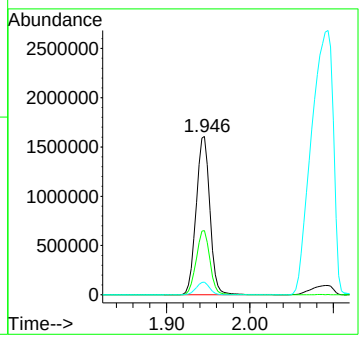


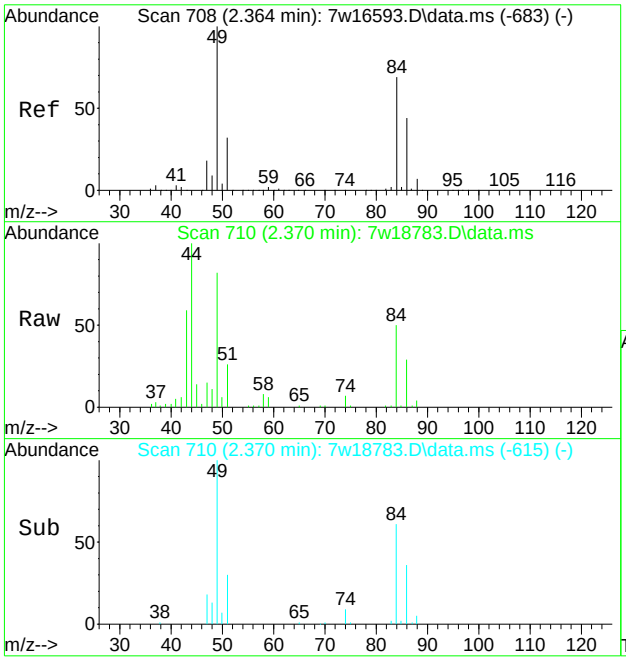


#28
ETHANOL
Concen: 269.5274 PPBV
RT: 1.946 min Scan# 578
Delta R.T. 0.013 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 45 Resp: 1841209

Ion	Ratio	Lower	Upper
45	100		
46	40.4	29.0	53.9
42	7.9	5.7	10.5

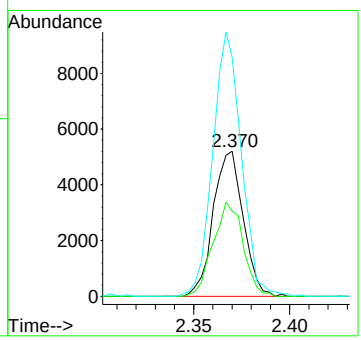


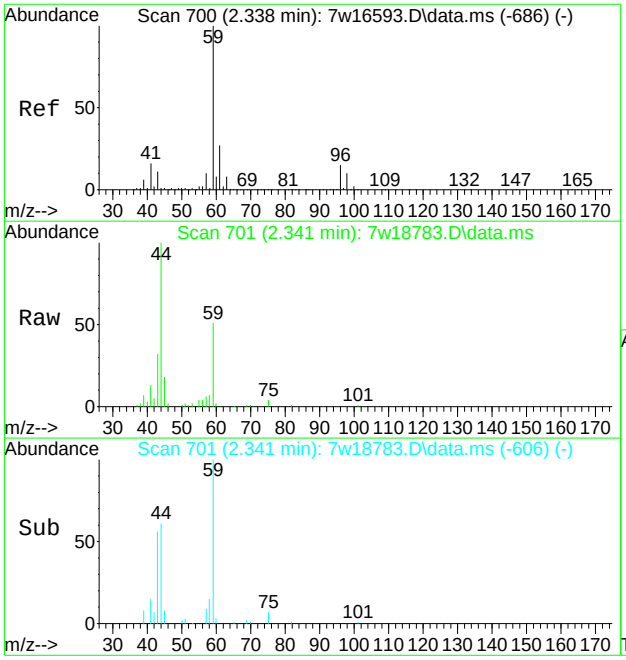


#31
METHYLENE CHLORIDE
Concen: 0.5004 PPBV
RT: 2.370 min Scan# 710
Delta R.T. 0.006 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 84 Resp: 5662

Ion	Ratio	Lower	Upper
84	100		
86	64.6	44.3	82.3
49	173.4	109.5	203.3

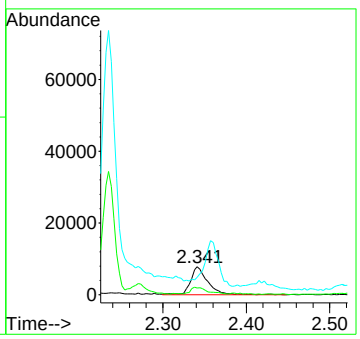


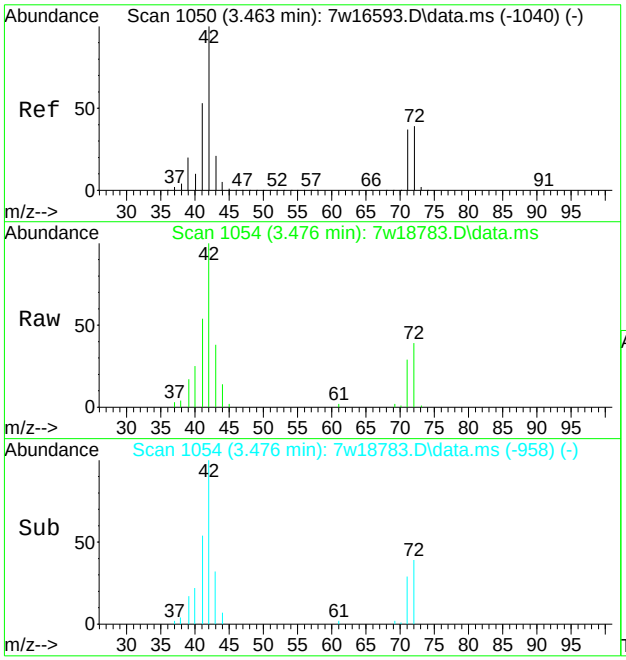


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.3543 PPBV
RT: 2.341 min Scan# 701
Delta R.T. 0.006 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 59 Resp: 11360

Ion	Ratio	Lower	Upper
59	100		
41	27.7	12.9	23.9#
43	127.1	8.0	14.8#

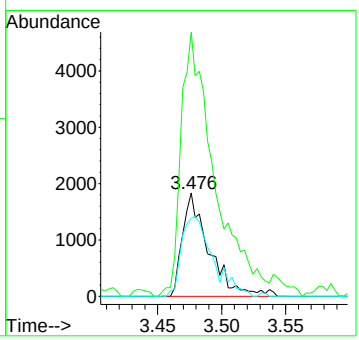


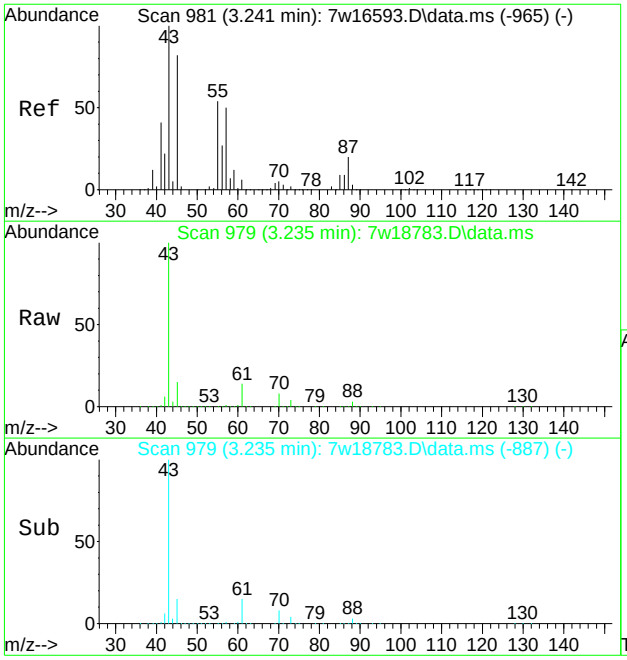


#37
TETRAHYDROFURAN
Concen: 0.4523 PPBV
RT: 3.476 min Scan# 1054
Delta R.T. 0.010 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 72 Resp: 2650

Ion	Ratio	Lower	Upper
72	100		
42	333.4	180.3	334.8
71	91.1	65.8	122.2

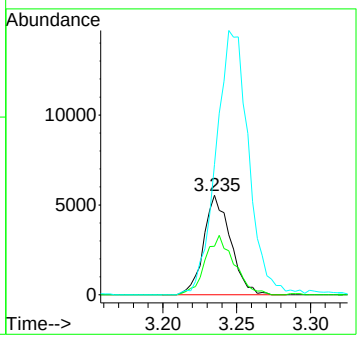


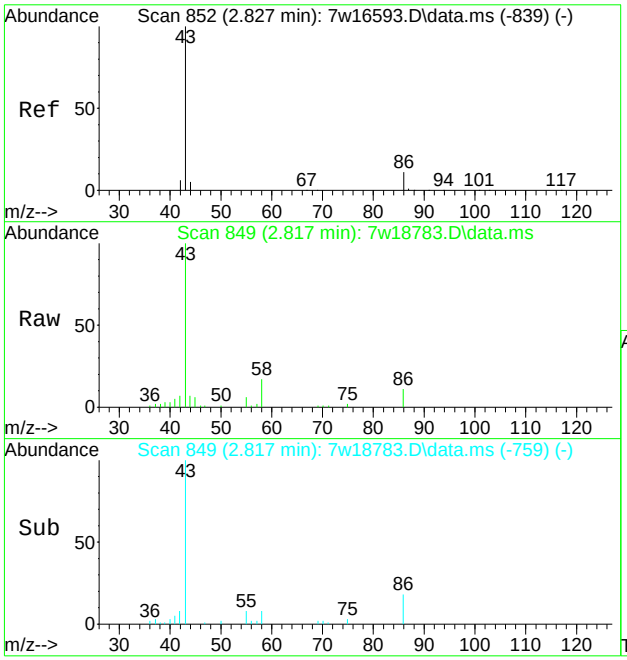


#38
HEXANE
Concen: 0.2847 PPBV
RT: 3.235 min Scan# 979
Delta R.T. -0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 57 Resp: 6927

Ion	Ratio	Lower	Upper
57	100		
56	64.7	38.0	70.6
41	326.0	65.9	122.5#

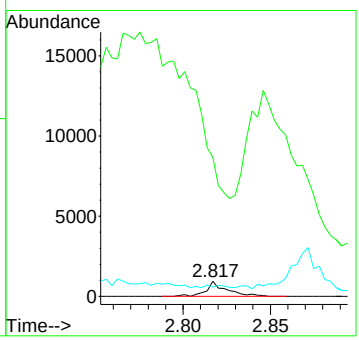


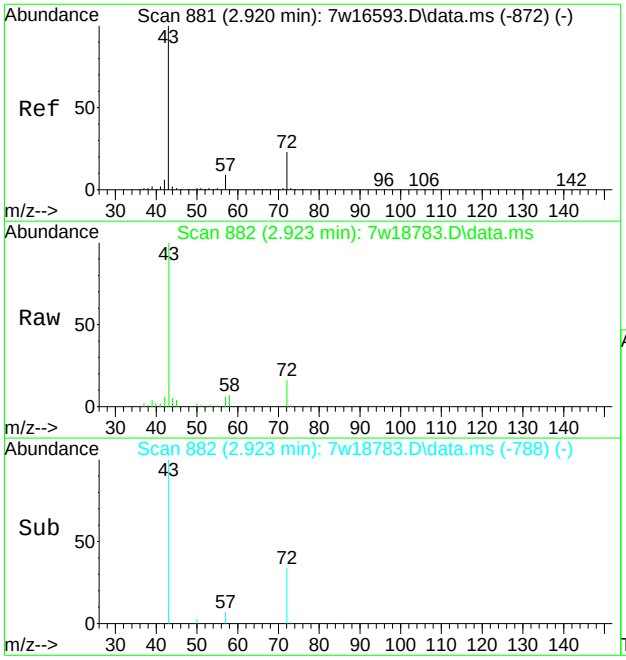


#39
VINYL ACETATE
Concen: 0.2215 PPBV
RT: 2.817 min Scan# 849
Delta R.T. -0.010 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 86 Resp: 769

Ion	Ratio	Lower	Upper
86	100		
43	0.0	758.7	1408.9#
44	0.0	39.5	73.3#

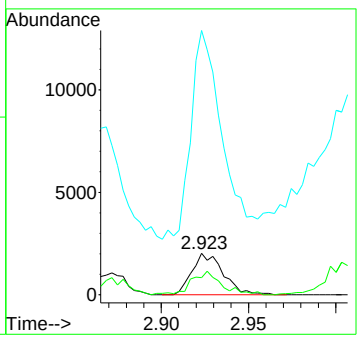


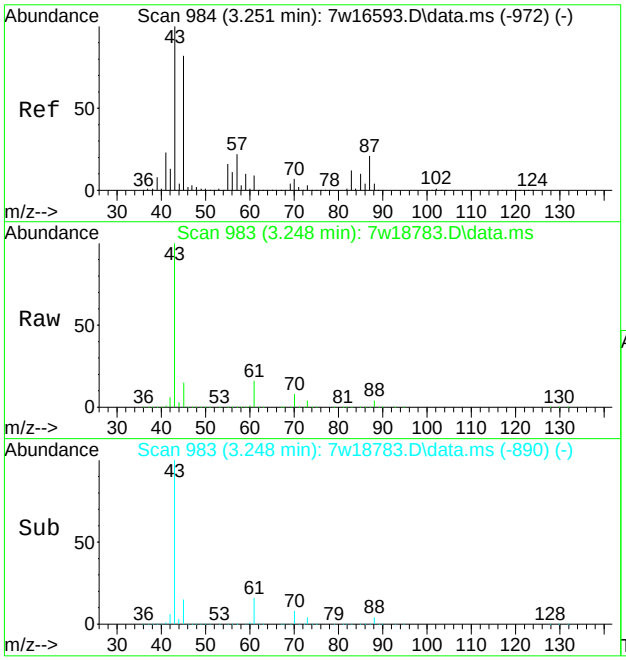


#41
METHYL ETHYL KETONE
Concen: 0.3798 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 72 Resp: 2522

Ion	Ratio	Lower	Upper
72	100		
57	55.0	26.9	49.9#
43	855.7	309.4	574.6#

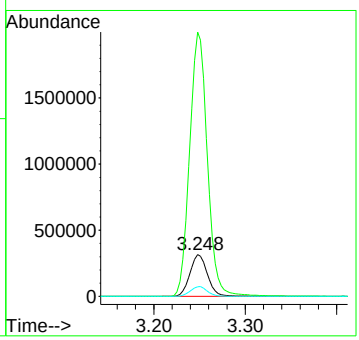


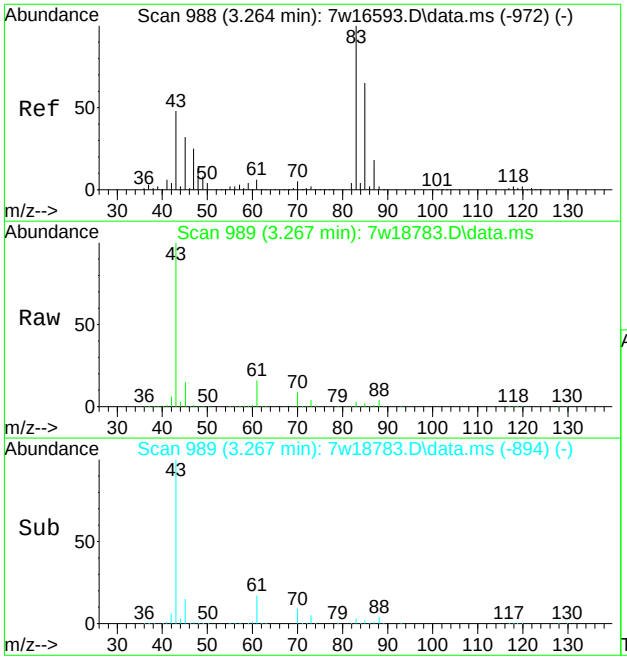


#44
ETHYL ACETATE
Concen: 90.0552 PPBV
RT: 3.248 min Scan# 983
Delta R.T. -0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 61 Resp: 420006

Ion	Ratio	Lower	Upper
61	100		
43	642.2	955.4	1774.4#
88	23.3	27.6	51.2#

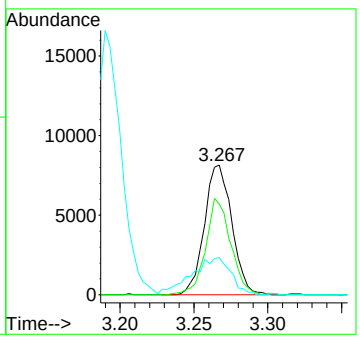


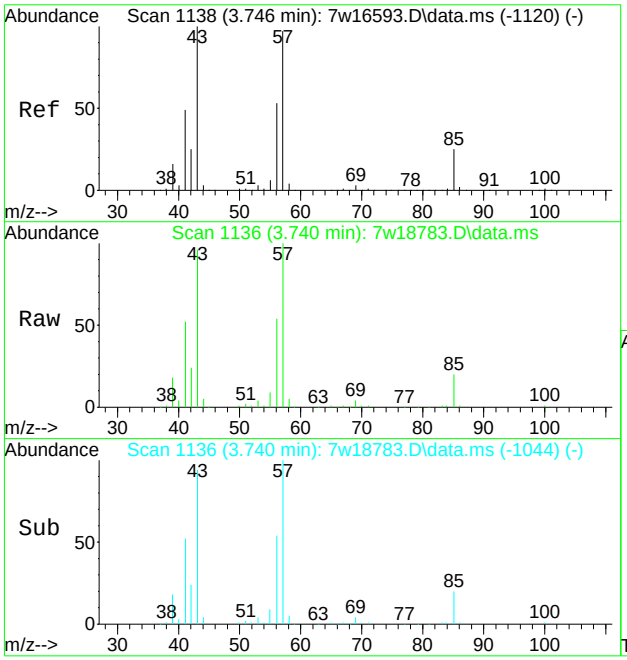


#46
CHLOROFORM
Concen: 0.4136 PPBV
RT: 3.267 min Scan# 989
Delta R.T. 0.006 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 83 Resp: 10509

Ion	Ratio	Lower	Upper
83	100		
85	68.0	56.0	104.0
47	40.9	19.0	35.4#

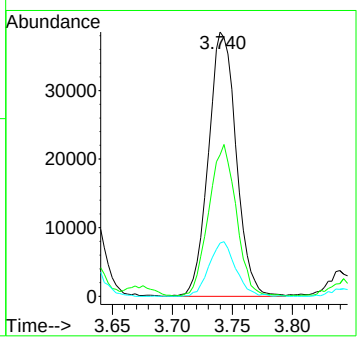


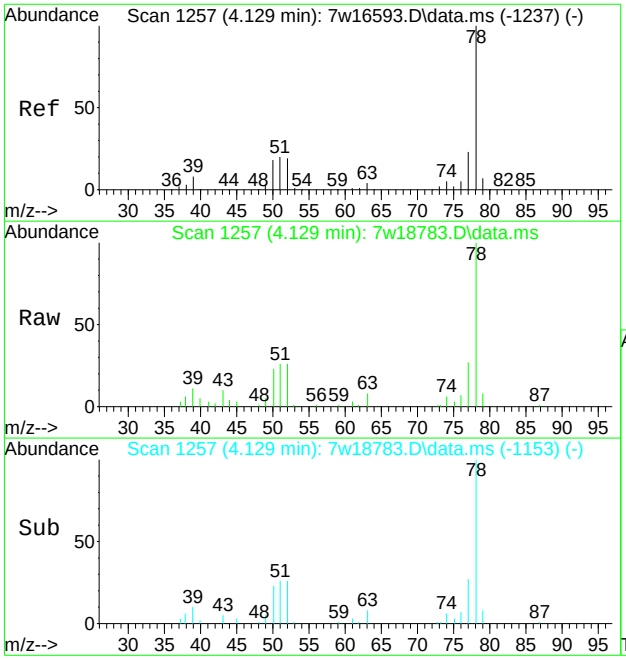


#47
2,4-DIMETHYLPENTANE
Concen: 2.2847 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 57 Resp: 62221

Ion	Ratio	Lower	Upper
57	100		
56	57.0	38.4	71.2
85	19.7	17.5	32.5

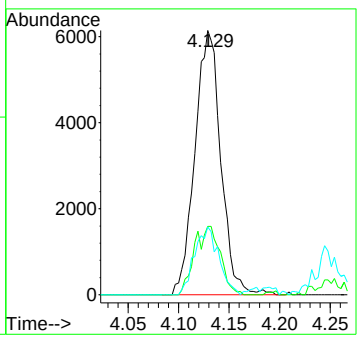


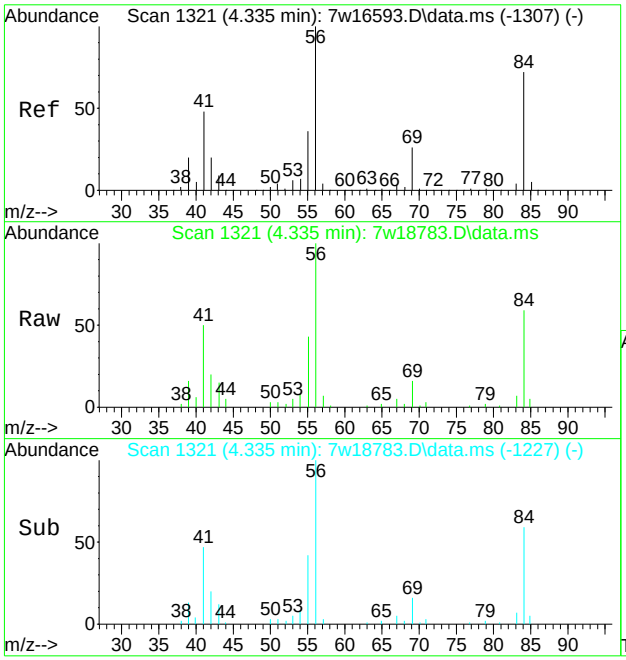


#51
BENZENE
Concen: 0.2812 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 78 Resp: 10961

Ion	Ratio	Lower	Upper
78	100		
52	26.0	0.0	49.9
51	23.9	0.0	50.6

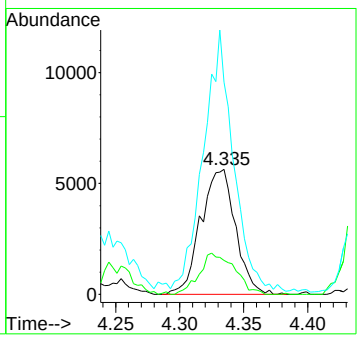


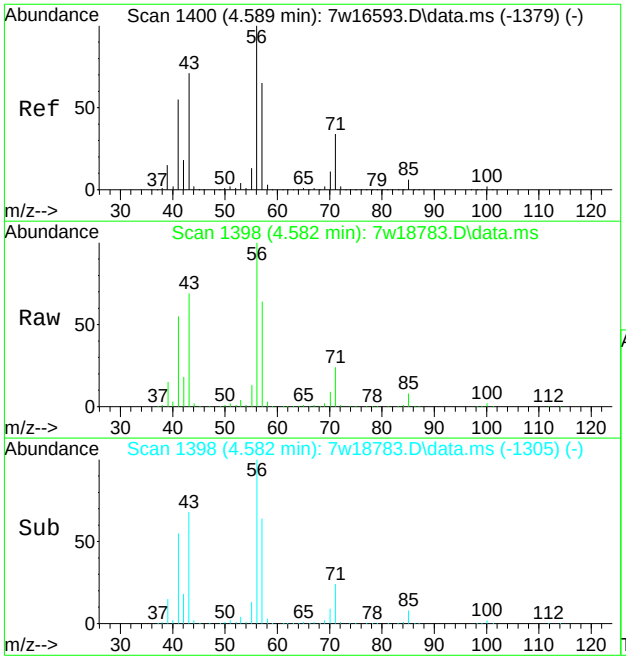


#53
CYCLOHEXANE
Concen: 0.6344 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 84 Resp: 10626

Ion	Ratio	Lower	Upper
84	100		
69	33.5	24.6	45.6
56	183.1	96.4	179.0#

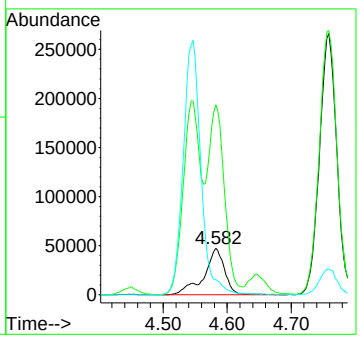


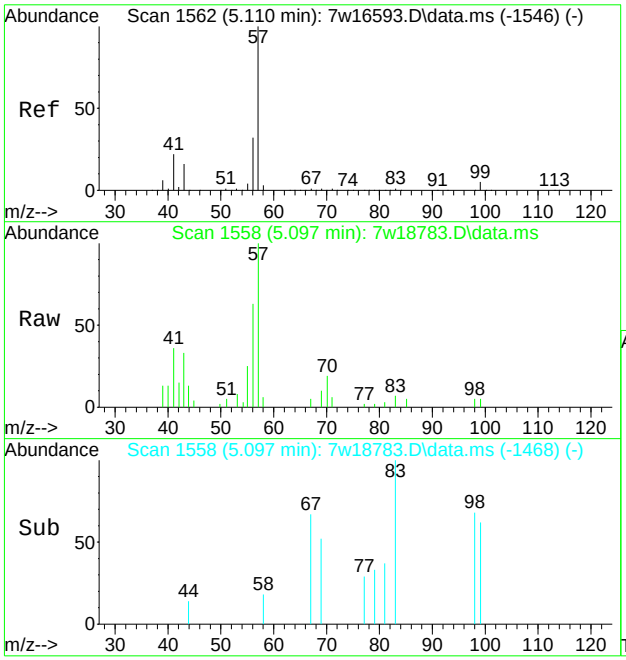


#54
2,3-DIMETHYLPENTANE
Concen: 12.8574 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 71 Resp: 107394

Ion	Ratio	Lower	Upper
71	100		
56	324.1	213.2	396.0
85	0.0	12.2	22.6#

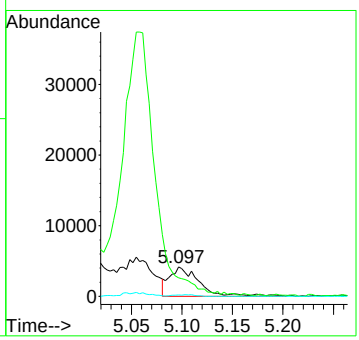


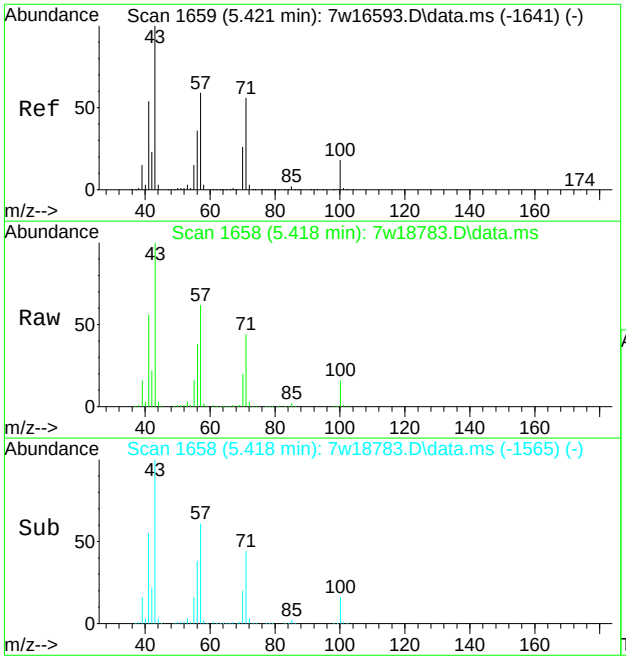


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.1103 PPBV
RT: 5.097 min Scan# 1558
Delta R.T. -0.009 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 57 Resp: 8525

Ion	Ratio	Lower	Upper
57	100		
56	0.0	22.6	42.0#
99	3.9	3.6	6.8

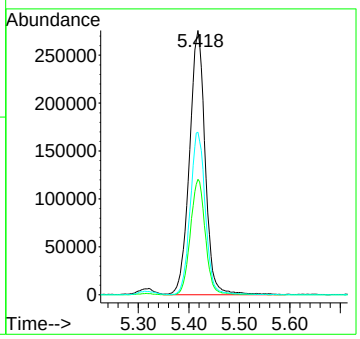


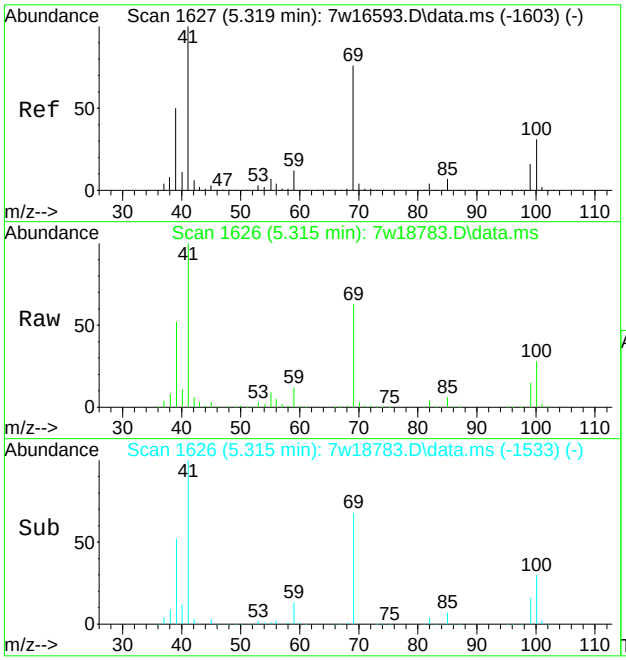


#62
HEPTANE
Concen: 23.3332 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 43 Resp: 595539

Ion	Ratio	Lower	Upper
43	100		
71	41.6	38.9	72.2
57	58.9	40.5	75.3

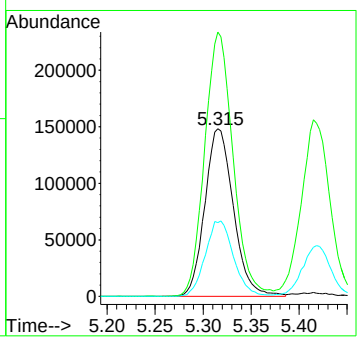


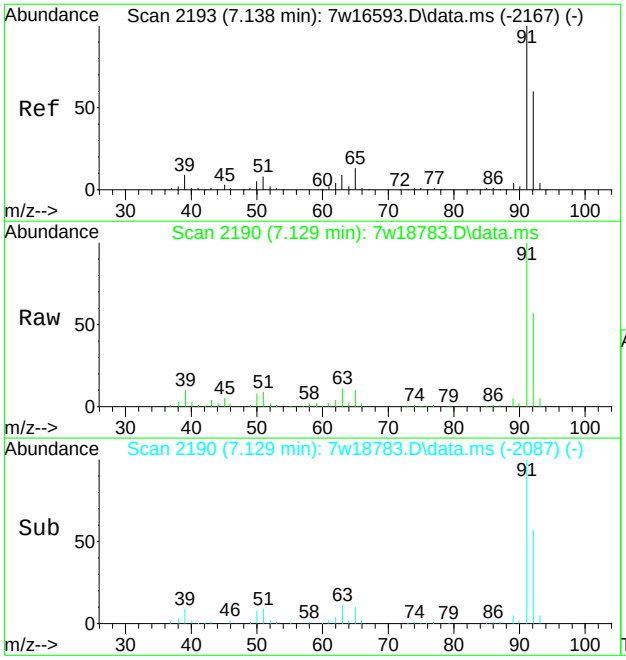


#63
METHYL METHACRYLATE
Concen: 21.4796 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 69 Resp: 308066

Ion	Ratio	Lower	Upper
69	100		
41	155.8	95.5	177.4
100	44.4	28.1	52.1

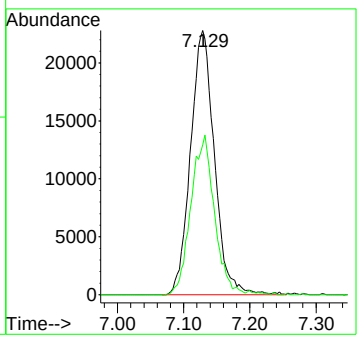


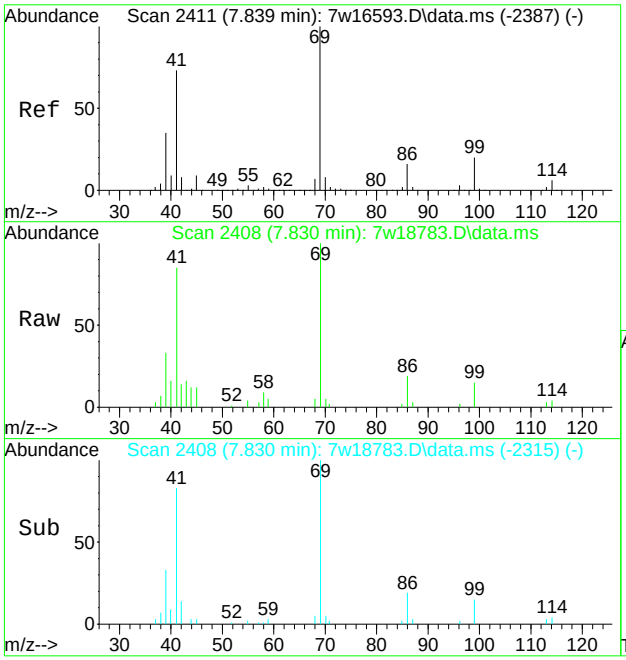


#66
TOLUENE
Concen: 1.2583 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. -0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 91 Resp: 57200

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

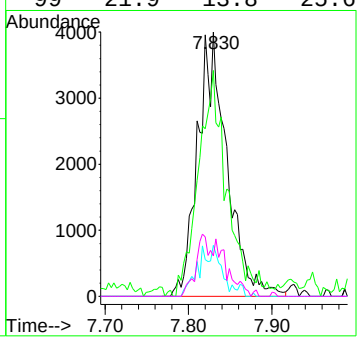


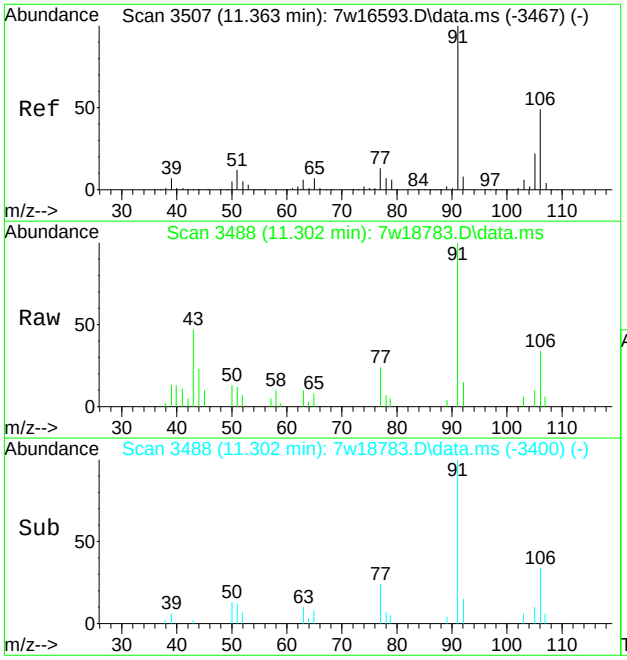


#71
ETHYL METHACRYLATE
Concen: 0.4067 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. -0.000 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 69 Resp: 9731

Ion	Ratio	Lower	Upper
69	100		
41	84.0	53.6	99.6
86	15.8	11.3	20.9
99	21.9	13.8	25.6

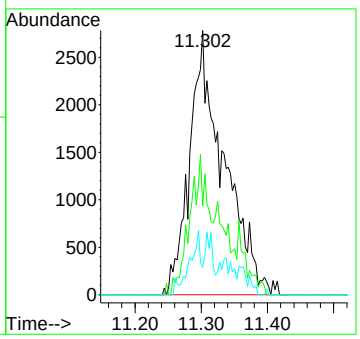


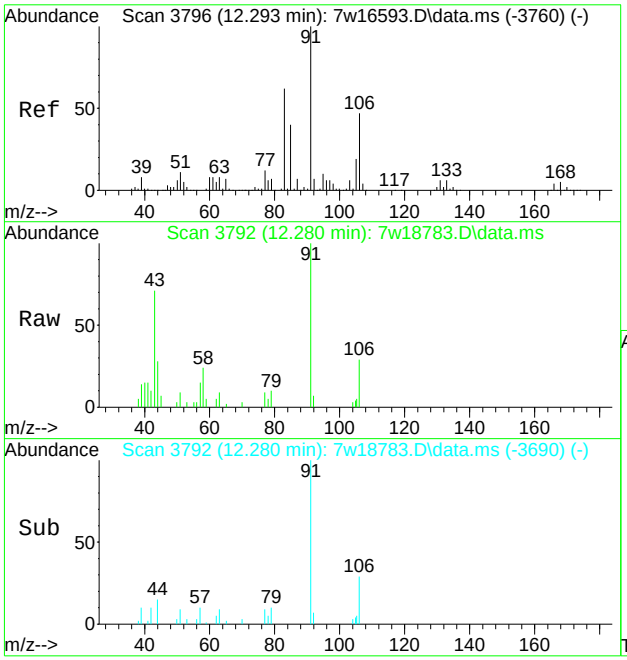


#80
M,P-XYLENE
Concen: 0.2041 PPBV
RT: 11.302 min Scan# 3488
Delta R.T. -0.048 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 91 Resp: 9981

Ion	Ratio	Lower	Upper
91	100		
106	40.2	0.0	56.1
105	13.8	0.0	42.1

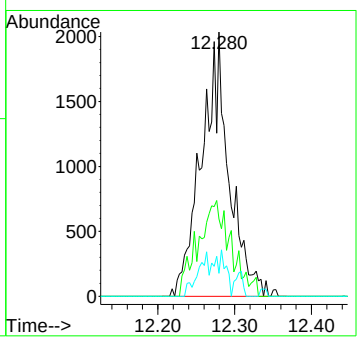




#81
O-XYLENE
Concen: 0.1064 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w18783.D
Acq: 24 Nov 2025 11:51 pm

Tgt Ion: 91 Resp: 5049

Ion	Ratio	Lower	Upper
91	100		
106	29.3	31.8	59.0#
105	8.7	13.0	24.2#



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18796.D
Acq On : 25 Nov 2025 8:52 am
Operator : williamc
Sample : je23789-2 Inst : MS7W
Misc : MS99437,v7w655,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 26 04:42:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

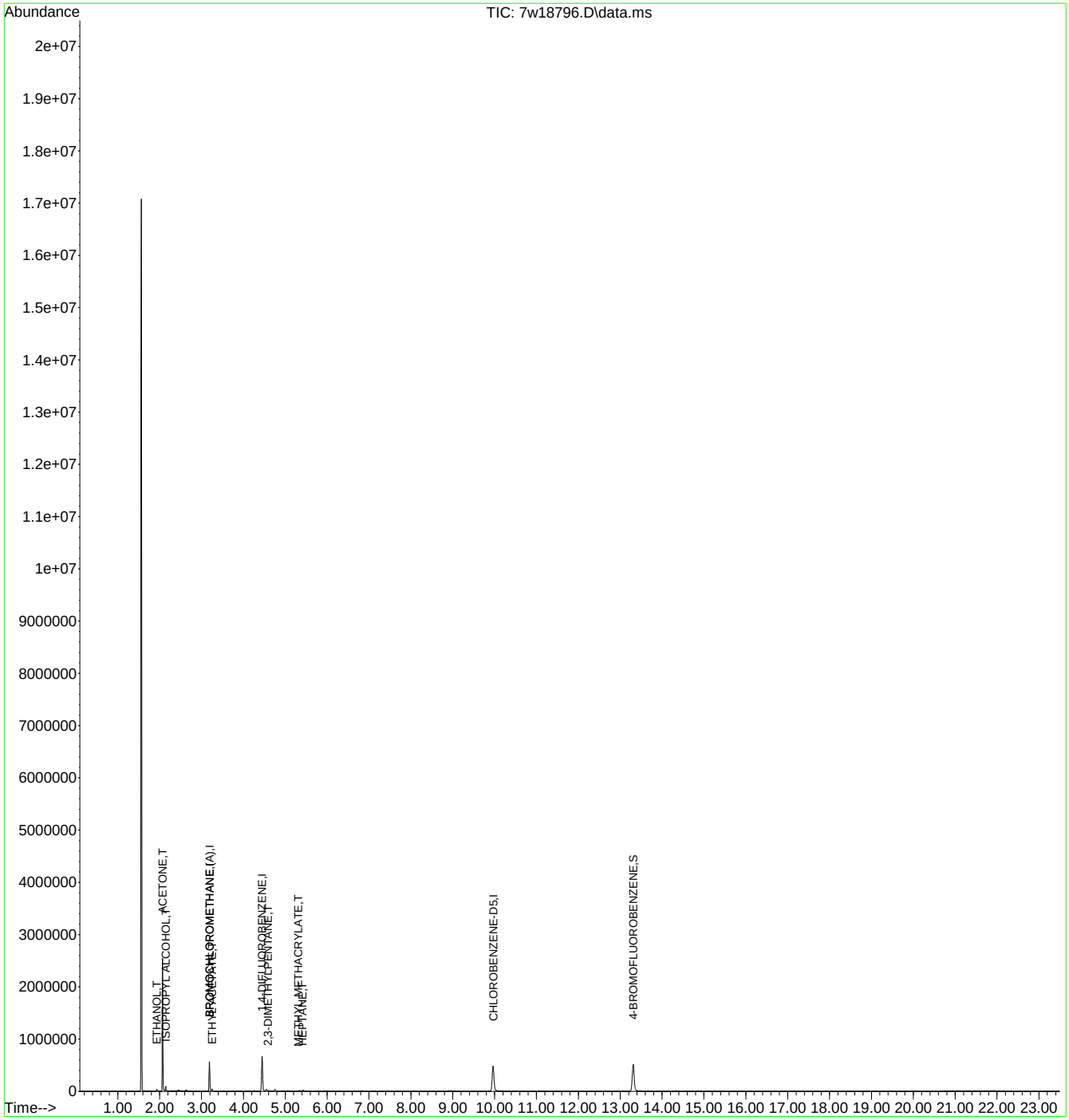
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	106903	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.444	114	504722	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	474323	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	106903	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	353064	9.24	PPBV	0.00
Target Compounds						Qvalue
22) ISOPROPYL ALCOHOL	2.145	45	58534	2.4841	PPBV #	73
23) ACETONE	2.068	58	583877	90.6306	PPBV	88
28) ETHANOL	1.933	45	22210	3.5405	PPBV	97
44) ETHYL ACETATE	3.248	61	5661	1.3218	PPBV #	1
54) 2,3-DIMETHYLPENTANE	4.585	71	1515	0.2057	PPBV #	74
62) HEPTANE	5.415	43	8178	0.3634	PPBV	89
63) METHYL METHACRYLATE	5.312	69	4239	0.3353	PPBV	86

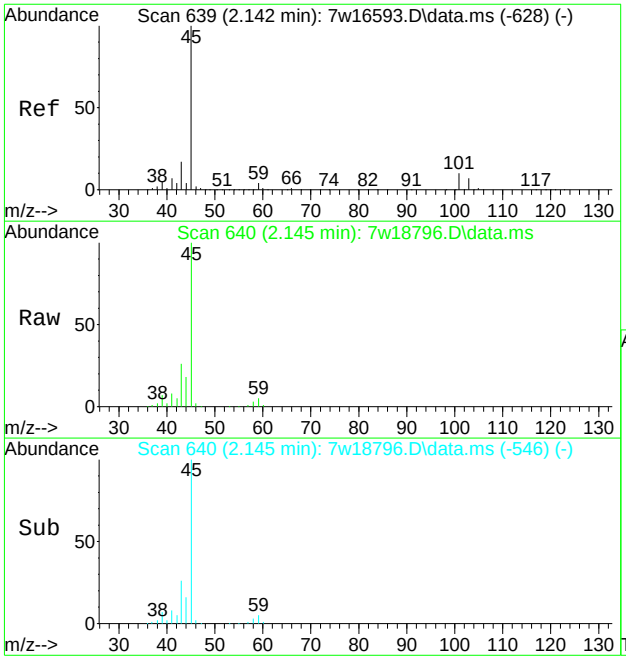
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18796.D
Acq On : 25 Nov 2025 8:52 am
Operator : williamc
Sample : je23789-2 Inst : MS7W
Misc : MS99437,v7w655,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 26 04:42:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

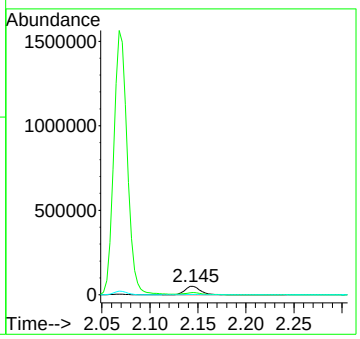


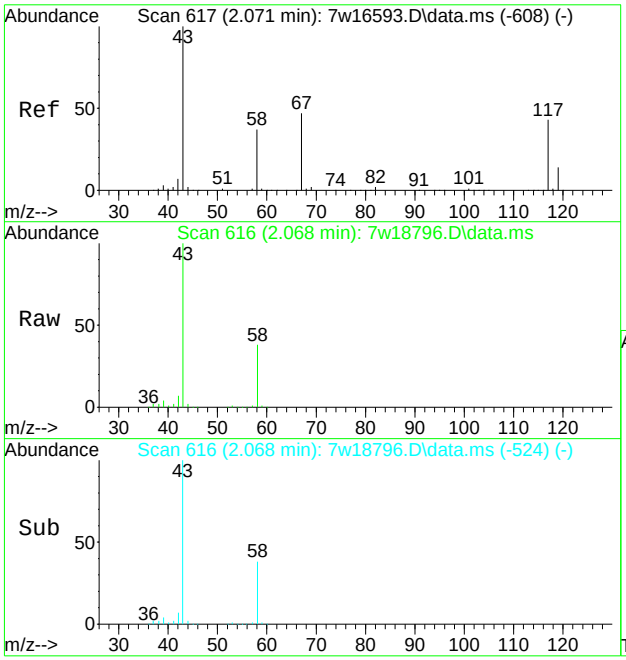


#22
ISOPROPYL ALCOHOL
Concen: 2.4841 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w18796.D
Acq: 25 Nov 2025 8:52 am

Tgt Ion: 45 Resp: 58534

Ion	Ratio	Lower	Upper
45	100		
43	32.5	12.5	23.3#
59	5.1	3.1	5.7

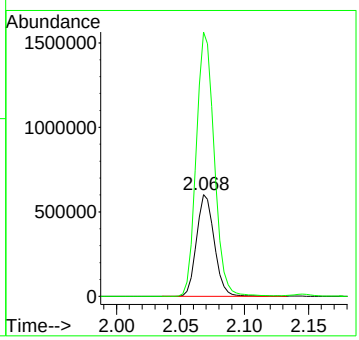


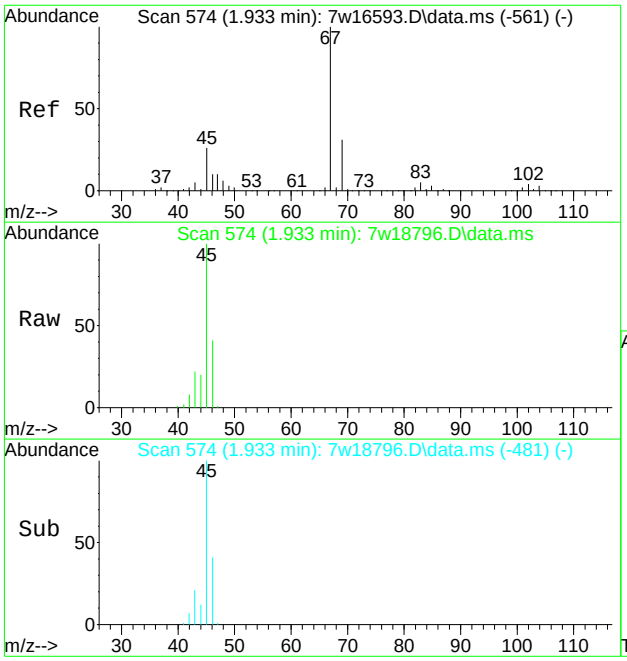


#23
ACETONE
Concen: 90.6306 PPBV
RT: 2.068 min Scan# 616
Delta R.T. -0.003 min
Lab File: 7w18796.D
Acq: 25 Nov 2025 8:52 am

Tgt Ion: 58 Resp: 583877

Ion	Ratio	Lower	Upper
58	100		
43	261.8	198.6	368.8

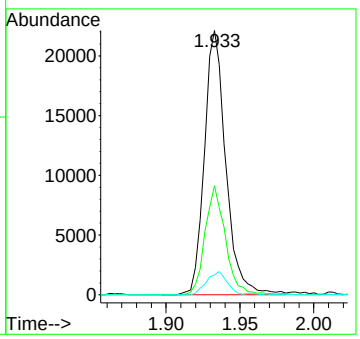


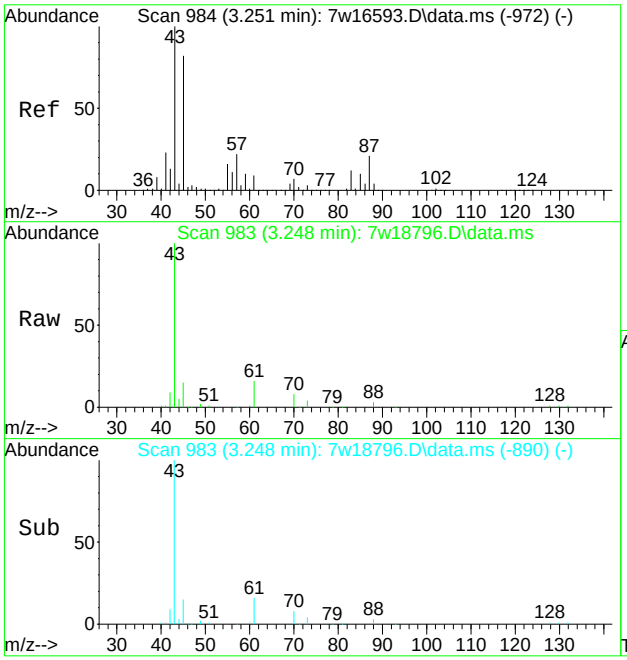


#28
ETHANOL
Concen: 3.5405 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w18796.D
Acq: 25 Nov 2025 8:52 am

Tgt Ion: 45 Resp: 22210

Ion	Ratio	Lower	Upper
45	100		
46	39.4	29.0	53.9
42	8.8	5.7	10.5

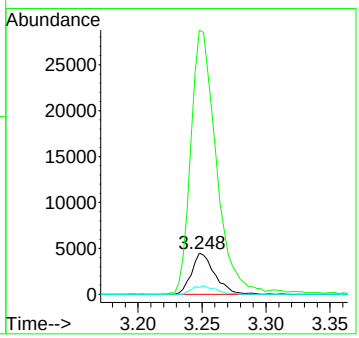


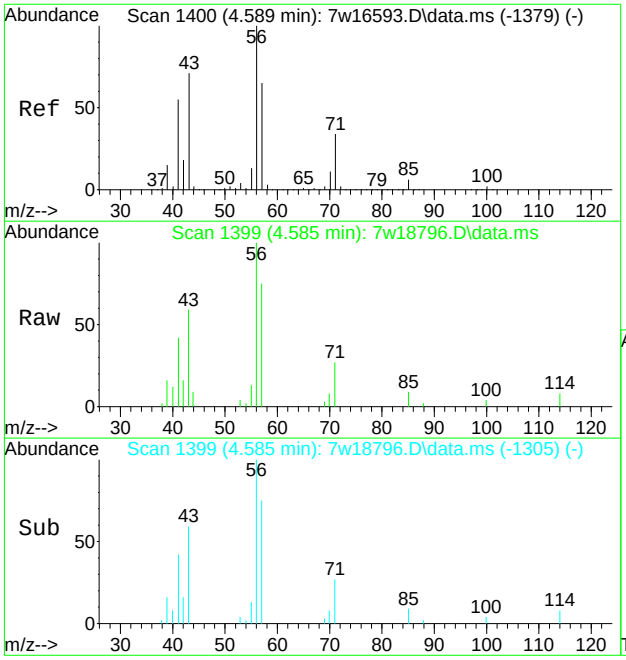


#44
ETHYL ACETATE
Concen: 1.3218 PPBV
RT: 3.248 min Scan# 983
Delta R.T. -0.000 min
Lab File: 7w18796.D
Acq: 25 Nov 2025 8:52 am

Tgt Ion: 61 Resp: 5661

Ion	Ratio	Lower	Upper
61	100		
43	721.3	955.4	1774.4#
88	21.1	27.6	51.2#

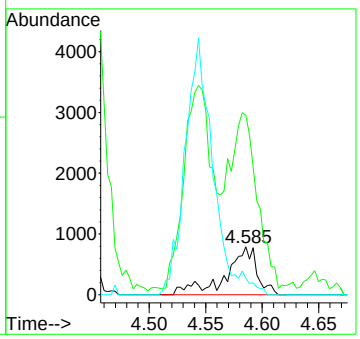


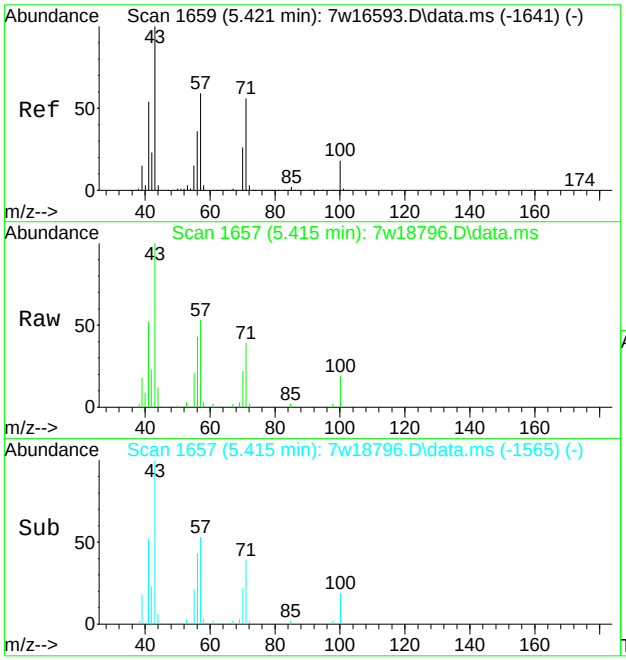


#54
2,3-DIMETHYLPENTANE
Concen: 0.2057 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w18796.D
Acq: 25 Nov 2025 8:52 am

Tgt Ion: 71 Resp: 1515

Ion	Ratio	Lower	Upper
71	100		
56	354.7	213.2	396.0
85	0.0	12.2	22.6#

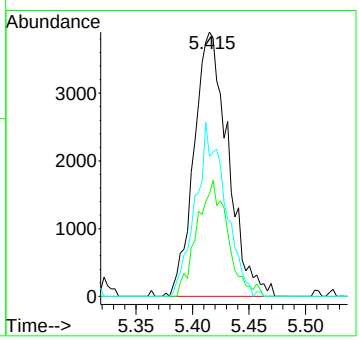


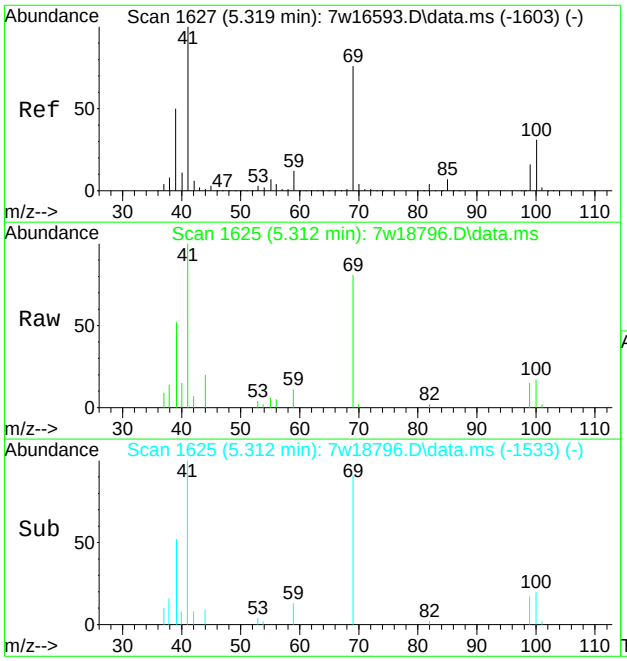


#62
HEPTANE
Concen: 0.3634 PPBV
RT: 5.415 min Scan# 1657
Delta R.T. -0.003 min
Lab File: 7w18796.D
Acq: 25 Nov 2025 8:52 am

Tgt Ion: 43 Resp: 8178

Ion	Ratio	Lower	Upper
43	100		
71	39.5	38.9	72.2
57	57.4	40.5	75.3

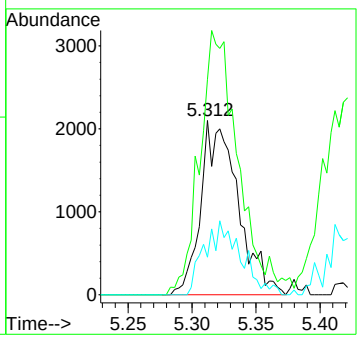




#63
METHYL METHACRYLATE
Concen: 0.3353 PPBV
RT: 5.312 min Scan# 1625
Delta R.T. -0.003 min
Lab File: 7w18796.D
Acq: 25 Nov 2025 8:52 am

Tgt Ion: 69 Resp: 4239

Ion	Ratio	Lower	Upper
69	100		
41	157.7	95.5	177.4
100	41.2	28.1	52.1



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18805.D
Acq On : 25 Nov 2025 4:04 pm
Operator : williamc
Sample : je23789-2(m097,m327) Inst : MS7W
Misc : MS99437,v7w656,200,,,,160
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:35:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

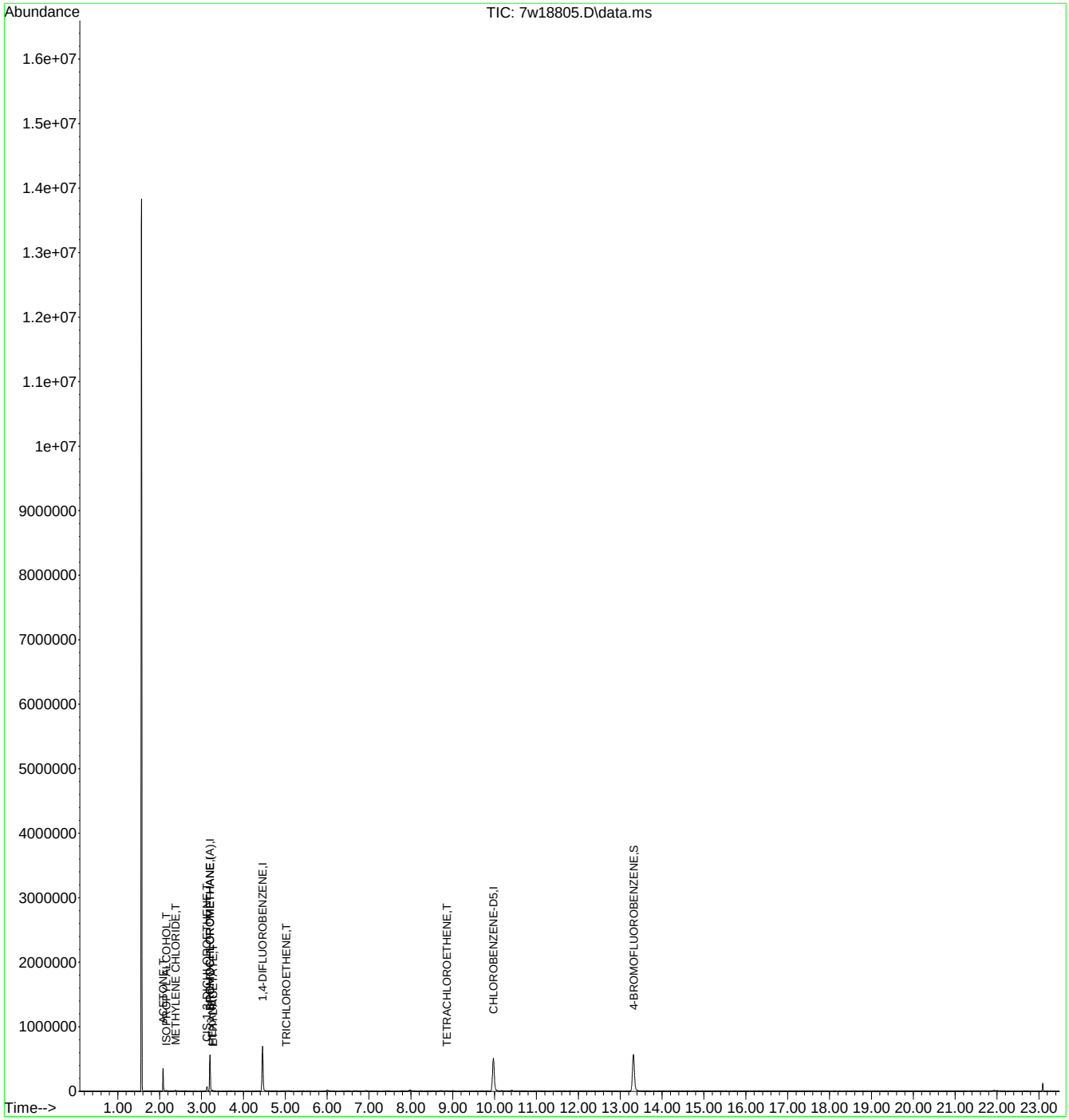
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.203	128	118252	10.00	PPBV	# 0.01
52) 1,4-DIFLUOROBENZENE	4.457	114	558249	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	527737	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.203	128	118252	10.00	PPBV	# 0.01
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.318	95	401731	9.45	PPBV	0.00
Target Compounds						Qvalue
22) ISOPROPYL ALCOHOL	2.158	45	7593	0.2913	PPBV	# 73
23) ACETONE	2.081	58	85467	11.9931	PPBV	84
31) METHYLENE CHLORIDE	2.377	84	3792	0.3299	PPBV	82
38) HEXANE	3.248	57	4585	0.1855	PPBV	# 78
42) CIS-1,2-DICHLOROETHENE	3.126	96	20630	1.5418	PPBV	97
44) ETHYL ACETATE	3.274	61	653	0.1378	PPBV	# 13
55) TRICHLOROETHENE	5.023	95	848	0.0487	PPBV	97
72) TETRACHLOROETHENE	8.855	164	2646	0.1637	PPBV	93

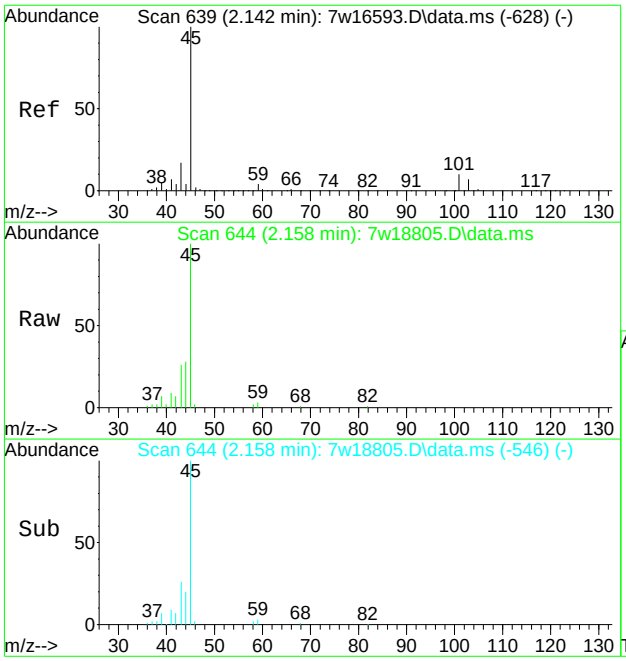
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18805.D
Acq On : 25 Nov 2025 4:04 pm
Operator : williamc
Sample : je23789-2(m097,m327) Inst : MS7W
Misc : MS99437,v7w656,200,,,,160
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:35:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

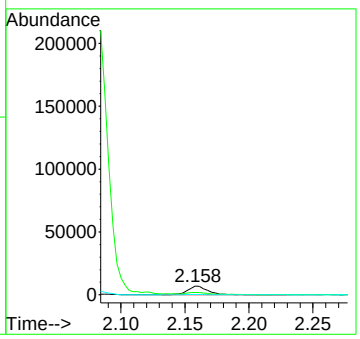


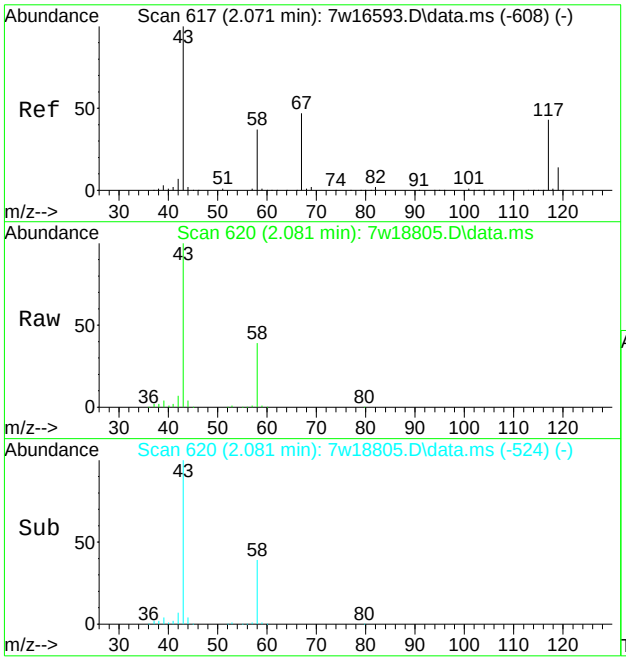


#22
ISOPROPYL ALCOHOL
Concen: 0.2913 PPBV
RT: 2.158 min Scan# 644
Delta R.T. 0.016 min
Lab File: 7w18805.D
Acq: 25 Nov 2025 4:04 pm

Tgt Ion: 45 Resp: 7593

Ion	Ratio	Lower	Upper
45	100		
43	32.6	12.5	23.3#
59	4.6	3.1	5.7

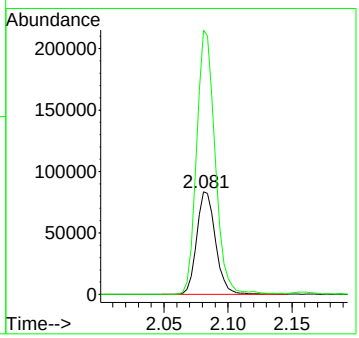


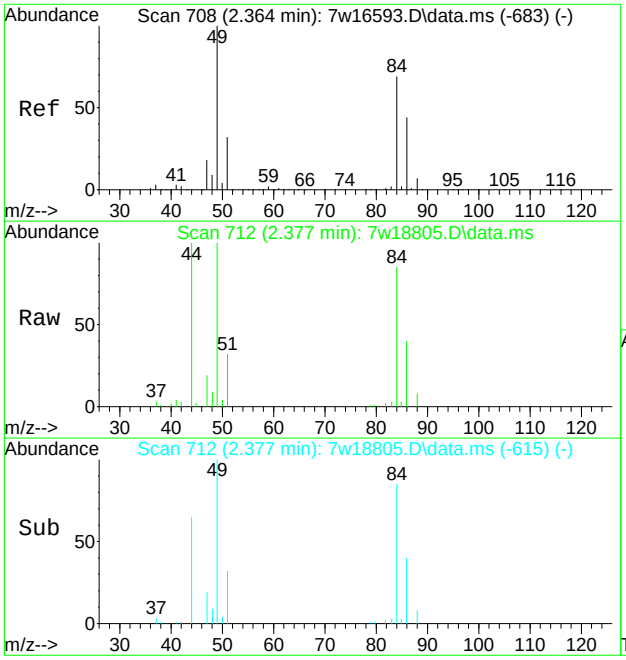


#23
ACETONE
Concen: 11.9931 PPBV
RT: 2.081 min Scan# 620
Delta R.T. 0.010 min
Lab File: 7w18805.D
Acq: 25 Nov 2025 4:04 pm

Tgt Ion: 58 Resp: 85467

Ion	Ratio	Lower	Upper
58	100		
43	253.6	198.6	368.8

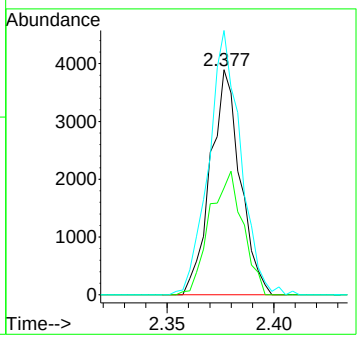


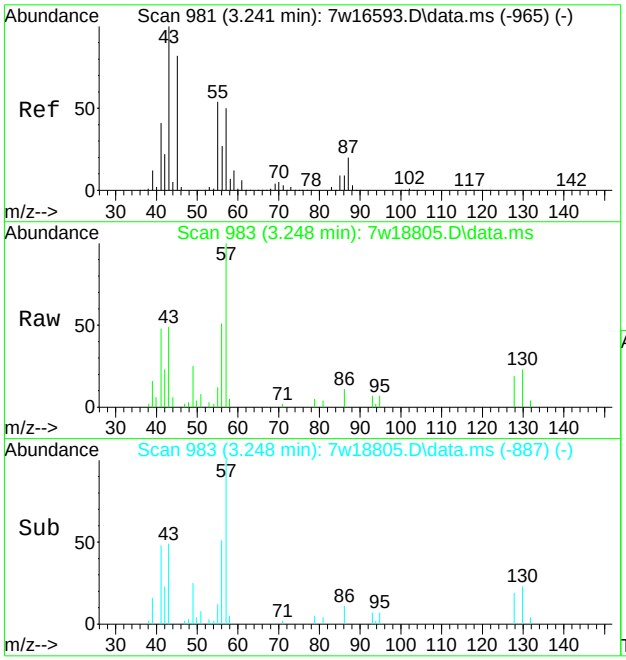


#31
METHYLENE CHLORIDE
Concen: 0.3299 PPBV
RT: 2.377 min Scan# 712
Delta R.T. 0.013 min
Lab File: 7w18805.D
Acq: 25 Nov 2025 4:04 pm

Tgt Ion: 84 Resp: 3792

Ion	Ratio	Lower	Upper
84	100		
86	61.0	44.3	82.3
49	125.9	109.5	203.3

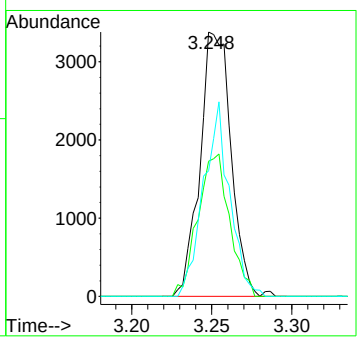


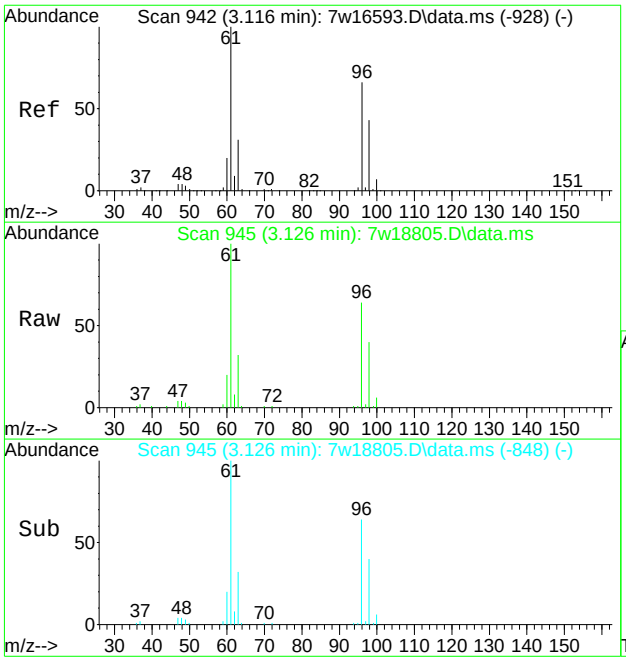


#38
HEXANE
Concen: 0.1855 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.010 min
Lab File: 7w18805.D
Acq: 25 Nov 2025 4:04 pm

Tgt Ion: 57 Resp: 4585

Ion	Ratio	Lower	Upper
57	100		
56	54.7	38.0	70.6
41	61.6	65.9	122.5#

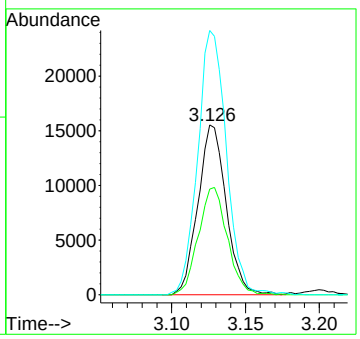


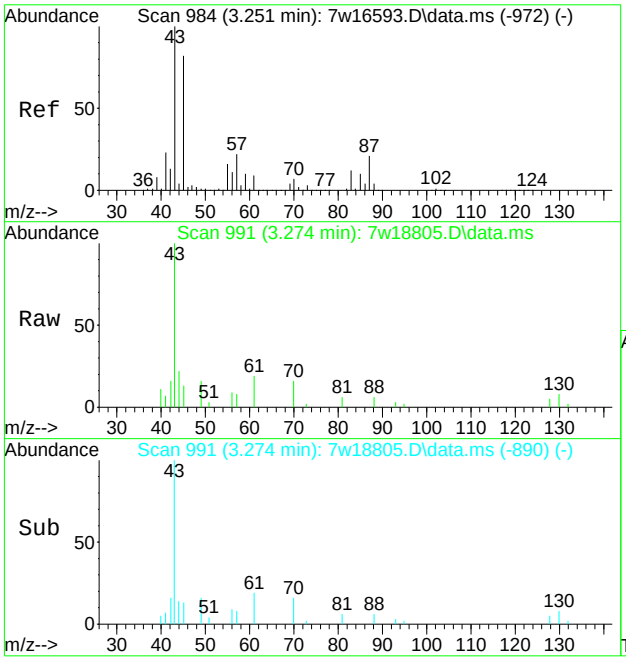


#42
CIS-1,2-DICHLOROETHENE
Concen: 1.5418 PPBV
RT: 3.126 min Scan# 945
Delta R.T. 0.013 min
Lab File: 7w18805.D
Acq: 25 Nov 2025 4:04 pm

Tgt Ion: 96 Resp: 20630

Ion	Ratio	Lower	Upper
96	100		
98	64.6	44.7	83.1
61	158.2	107.3	199.3

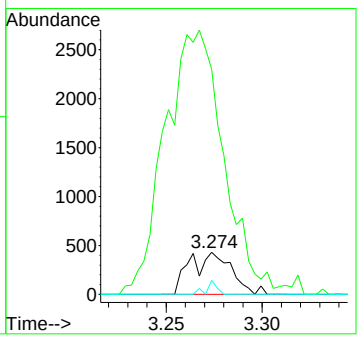


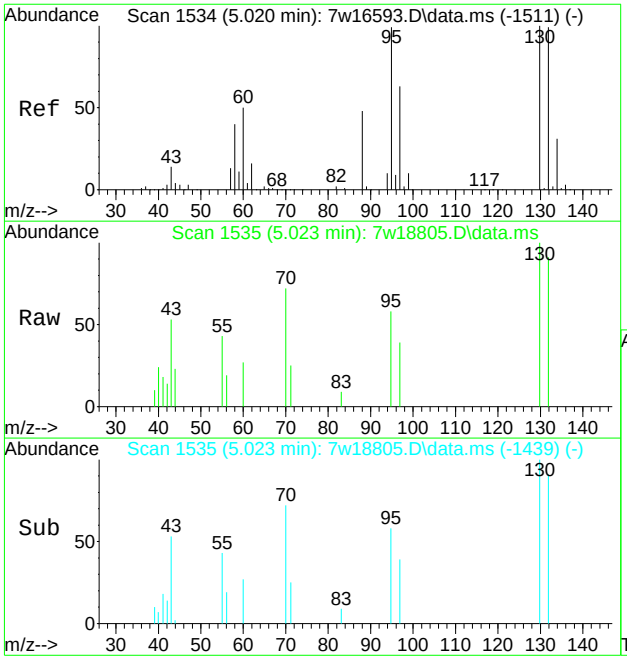


#44
ETHYL ACETATE
Concen: 0.1378 PPBV
RT: 3.274 min Scan# 991
Delta R.T. 0.026 min
Lab File: 7w18805.D
Acq: 25 Nov 2025 4:04 pm

Tgt Ion: 61 Resp: 653

Ion	Ratio	Lower	Upper
61	100		
43	876.1	955.4	1774.4#
88	7.8	27.6	51.2#

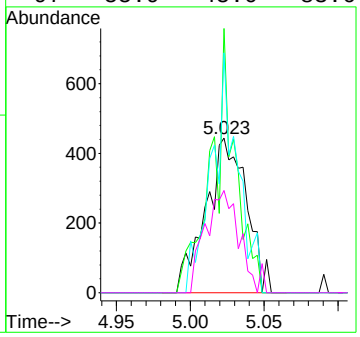


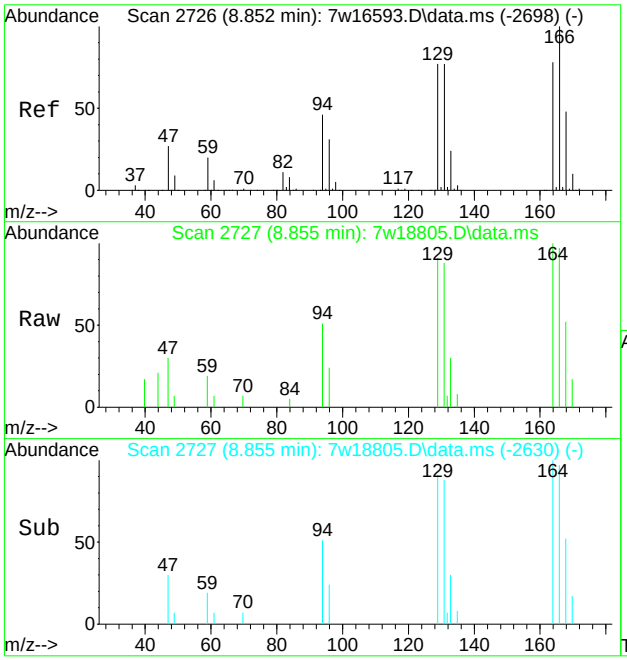


#55
TRICHLOROETHENE
Concen: 0.0487 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.010 min
Lab File: 7w18805.D
Acq: 25 Nov 2025 4:04 pm

Tgt Ion: 95 Resp: 848

Ion	Ratio	Lower	Upper
95	100		
130	100.6	69.4	129.0
132	98.7	69.4	128.8
97	55.9	45.0	83.6

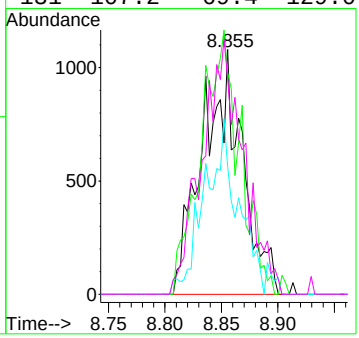




#72
TETRACHLOROETHENE
Concen: 0.1637 PPBV
RT: 8.855 min Scan# 2727
Delta R.T. 0.013 min
Lab File: 7w18805.D
Acq: 25 Nov 2025 4:04 pm

Tgt Ion:164 Resp: 2646

Ion	Ratio	Lower	Upper
164	100		
129	107.3	69.6	129.2
168	62.4	42.5	78.9
131	107.2	69.4	129.0



Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60007.D
Acq On : 24 Nov 2025 3:56 pm
Operator : benk
Sample : je23789-3
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:36:36 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

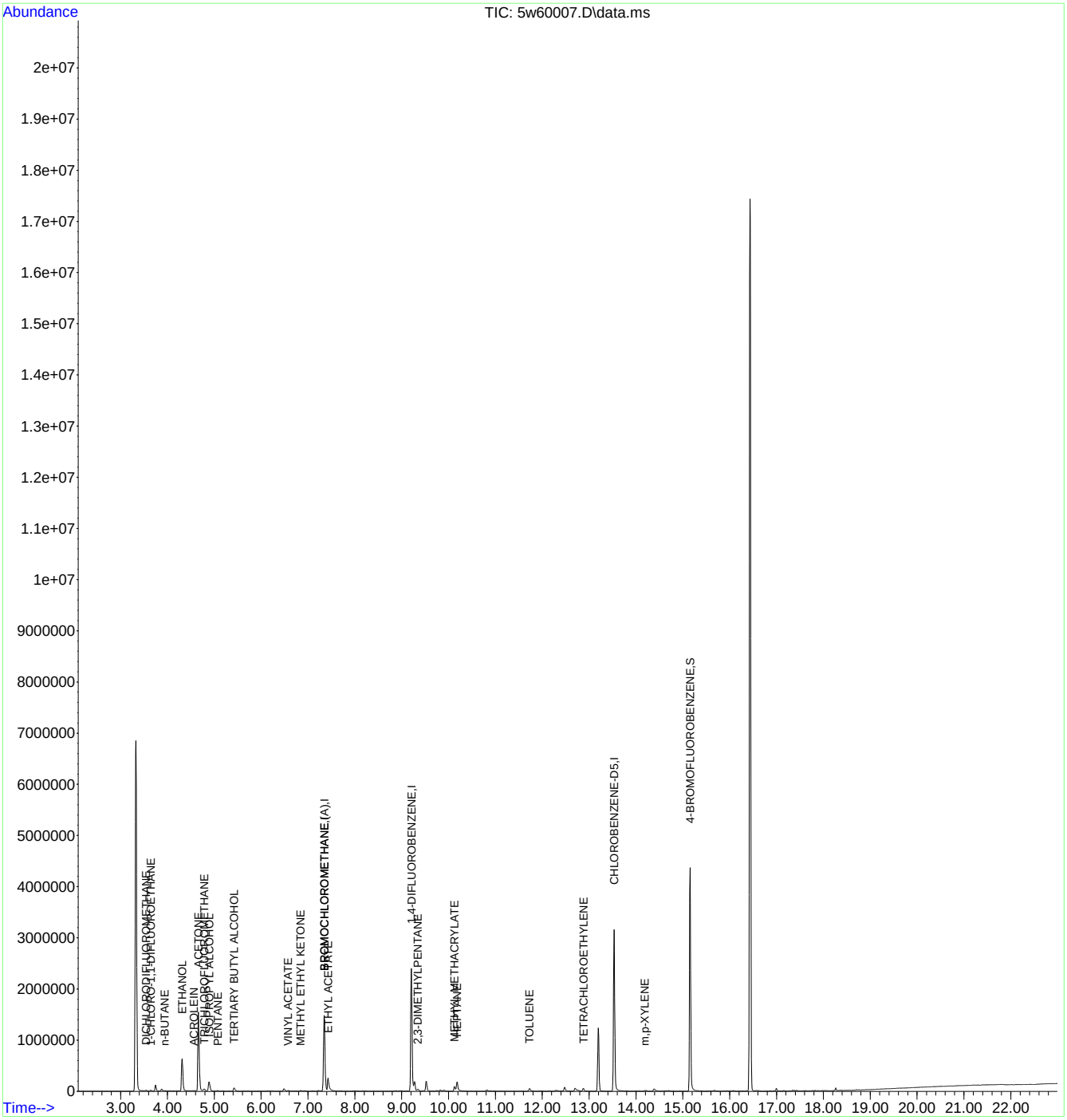
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	486262	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2215300	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1093617	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	487349	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1482167	10.85	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.50%				
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	3.543	85	17485	0.1256	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13928	0.1236	PPBV		95
13) n-BUTANE	3.940	43	7079	0.1527	PPBV		93
18) ACROLEIN	4.571	56	3724	0.2475	PPBV		81
21) TRICHLOROFLUOROMETHANE	4.785	101	30964	0.2605	PPBV		100
22) ISOPROPYL ALCOHOL	4.889	45	299801	3.1441	PPBV		93
23) ACETONE	4.662	58	740259	38.8152	PPBV		89
24) PENTANE	5.072	42	5231	0.1056	PPBV		93
28) ETHANOL	4.314	45	818775	51.2531	PPBV		99
35) TERTIARY BUTYL ALCOHOL	5.421	59	83766	0.8591	PPBV		94
39) VINYL ACETATE	6.571	86	1554	0.1979	PPBV	#	66
41) METHYL ETHYL KETONE	6.846	72	7325	0.3900	PPBV	#	83
44) ETHYL ACETATE	7.428	61	60029	4.1826	PPBV		97
54) 2,3-DIMETHYLPENTANE	9.348	71	6220	0.2076	PPBV	#	89
62) HEPTANE	10.181	43	108616	1.2719	PPBV		78
63) METHYL METHACRYLATE	10.125	69	56459	1.1672	PPBV	#	73
66) TOLUENE	11.728	92	31106	0.2804	PPBV		95
73) TETRACHLOROETHYLENE	12.878	164	14422	0.1933	PPBV		98
80) m,p-XYLENE	14.194	106	8638	0.1046	PPBV		98

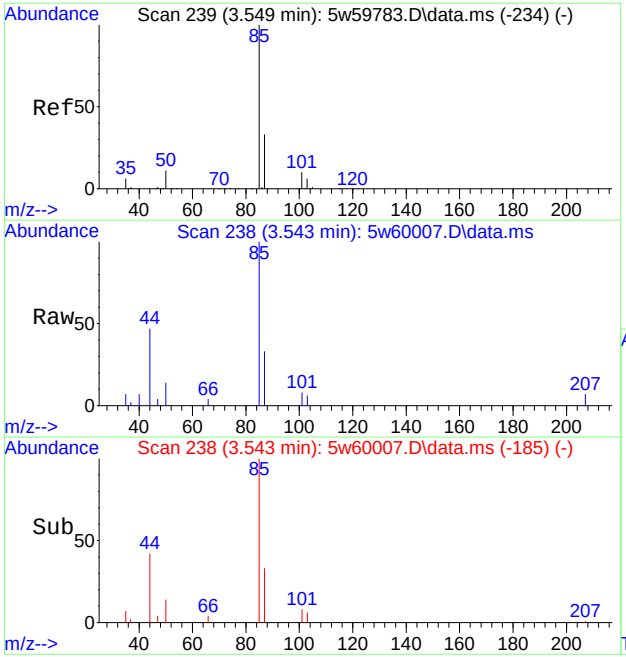
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60007.D
Acq On : 24 Nov 2025 3:56 pm
Operator : benk
Sample : je23789-3
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:36:36 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

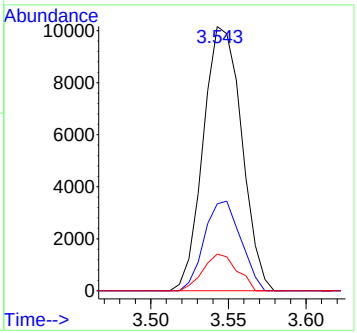


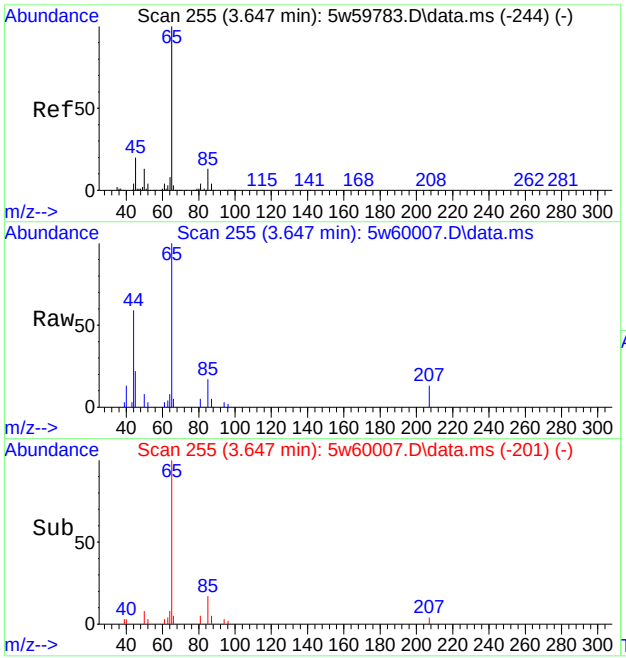


#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 3.543 min Scan# 238
Delta R.T. -0.006 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 85 Resp: 17485

Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.5	62.5
50	12.3	0.0	41.7

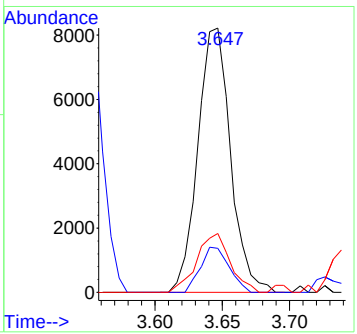


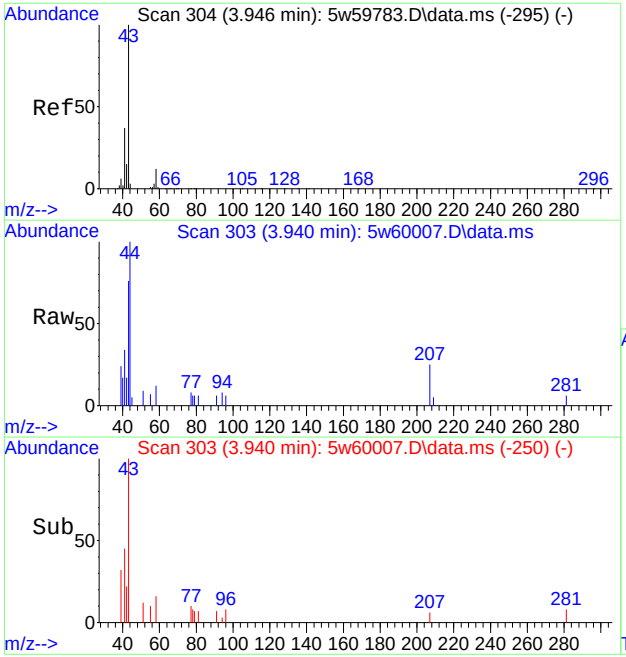


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.12 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 65 Resp: 13928

Ion	Ratio	Lower	Upper
65	100		
85	15.0	11.5	21.3
45	22.8	14.0	26.0

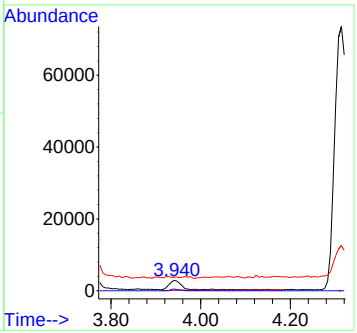


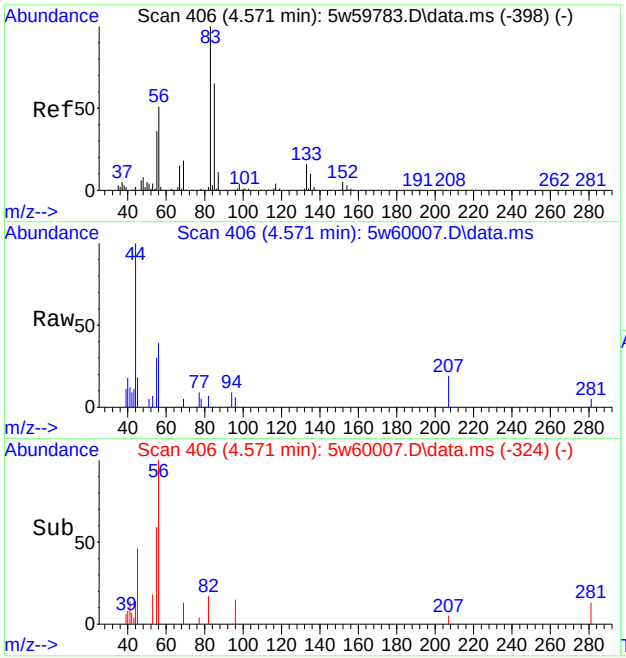


#13
n-BUTANE
Concen: 0.15 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 43 Resp: 7079

Ion	Ratio	Lower	Upper
43	100		
58	9.1	0.0	42.6
44	5.9	0.0	34.9

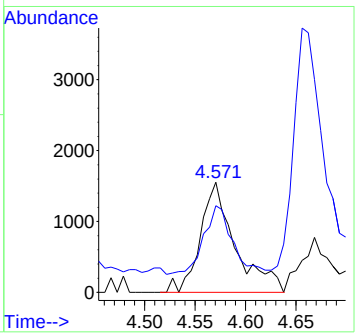


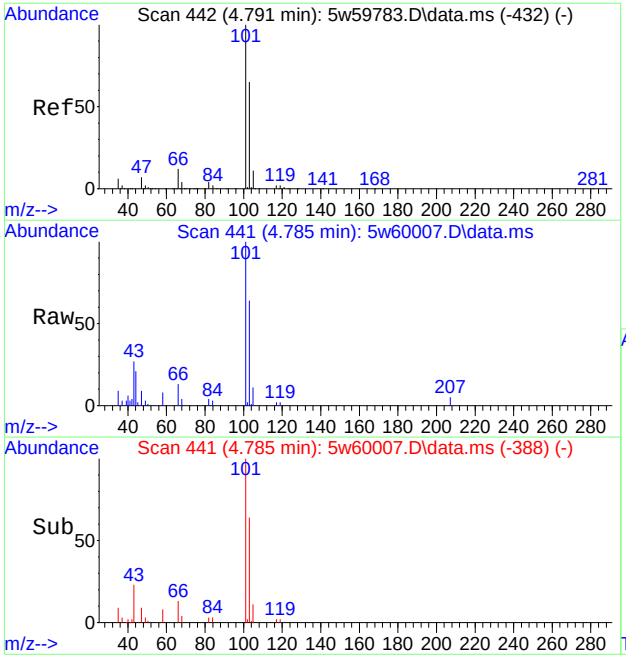


#18
ACROLEIN
Concen: 0.25 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 56 Resp: 3724

Ion	Ratio	Lower	Upper
56	100		
55	51.3	46.6	86.6

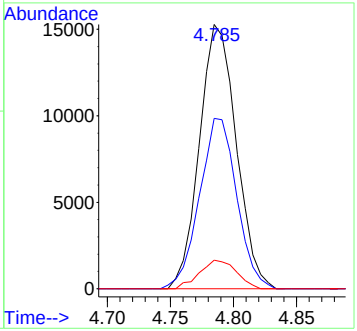


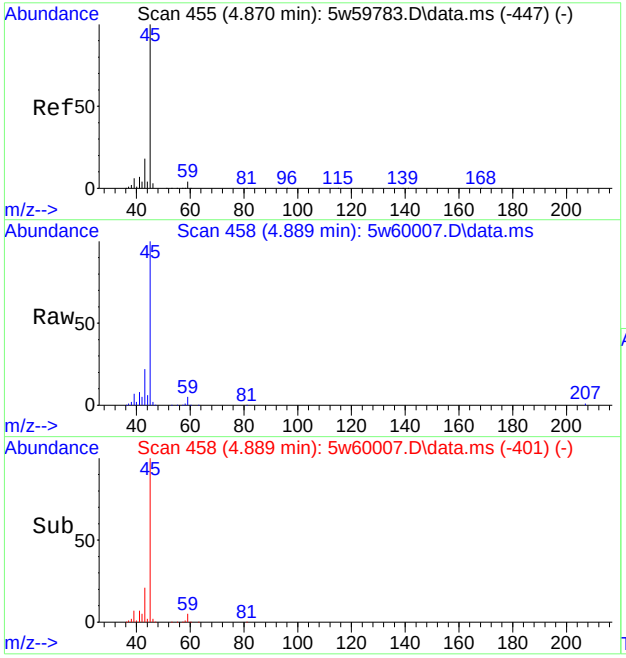


#21
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBV
RT: 4.785 min Scan# 441
Delta R.T. -0.006 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion:101 Resp: 30964

Ion	Ratio	Lower	Upper
101	100		
103	65.2	35.0	95.0
105	10.9	0.0	40.7

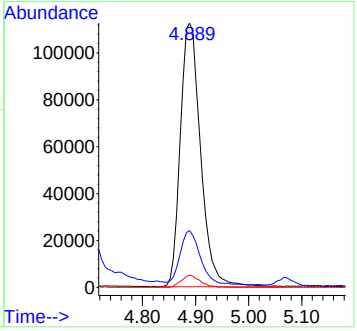


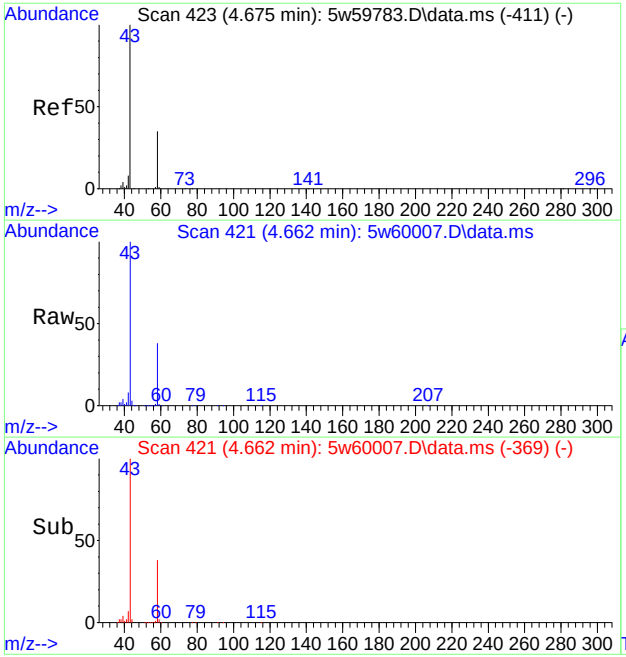


#22
ISOPROPYL ALCOHOL
Concen: 3.14 PPBV
RT: 4.889 min Scan# 458
Delta R.T. 0.019 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 45 Resp: 299801

Ion	Ratio	Lower	Upper
45	100		
43	21.6	0.0	47.8
59	4.7	0.0	34.1

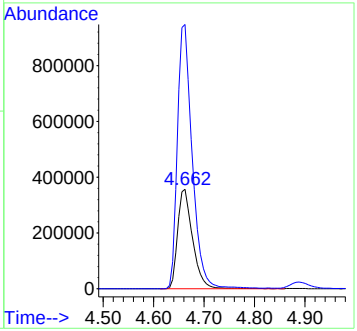


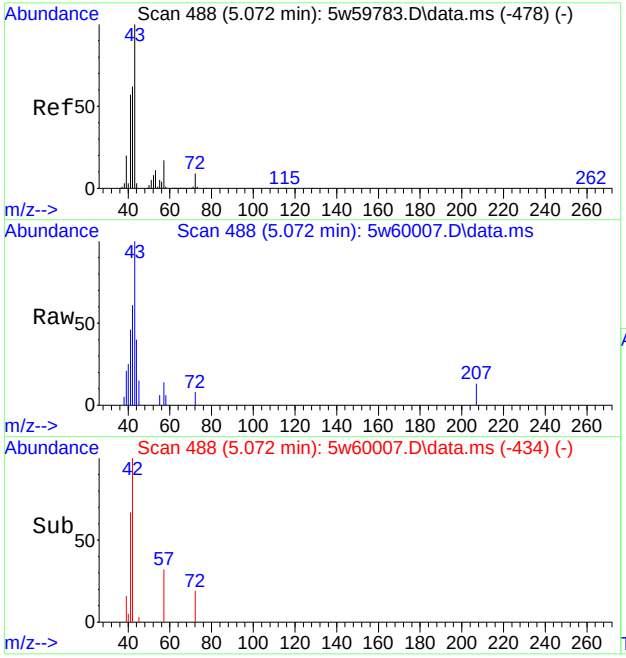


#23
ACETONE
Concen: 38.82 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 58 Resp: 740259

Ion	Ratio	Lower	Upper
58	100		
43	262.1	252.3	312.3

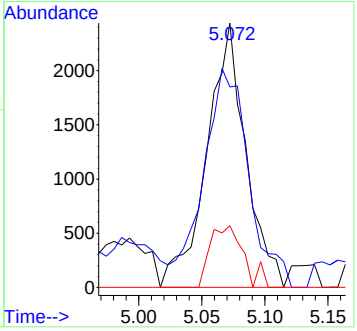


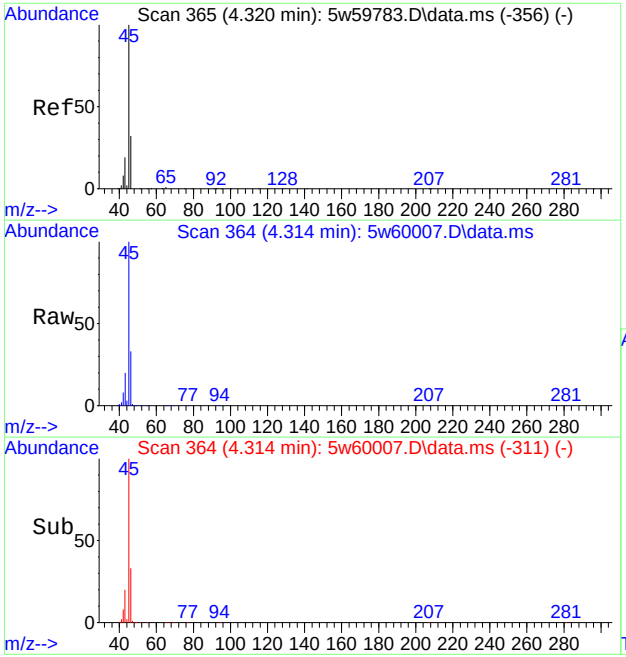


#24
PENTANE
Concen: 0.11 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 42 Resp: 5231

Ion	Ratio	Lower	Upper
42	100		
41	96.2	62.3	122.3
57	20.0	0.0	57.7

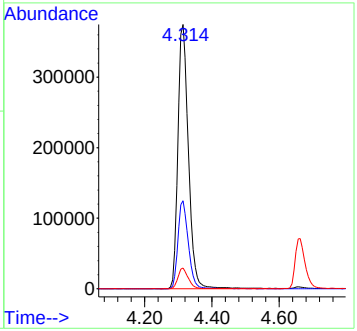


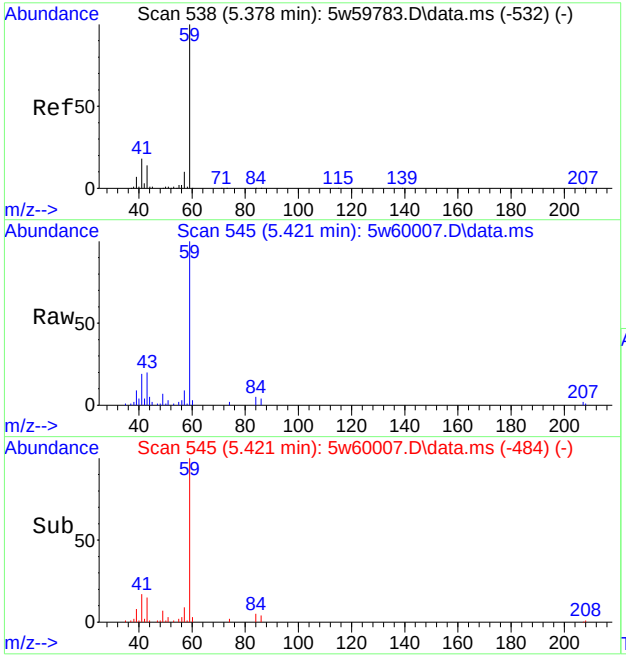


#28
ETHANOL
Concen: 51.25 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 45 Resp: 818775

Ion	Ratio	Lower	Upper
45	100		
46	32.8	2.0	62.0
42	8.3	0.0	38.5

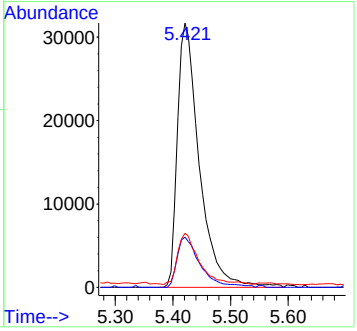


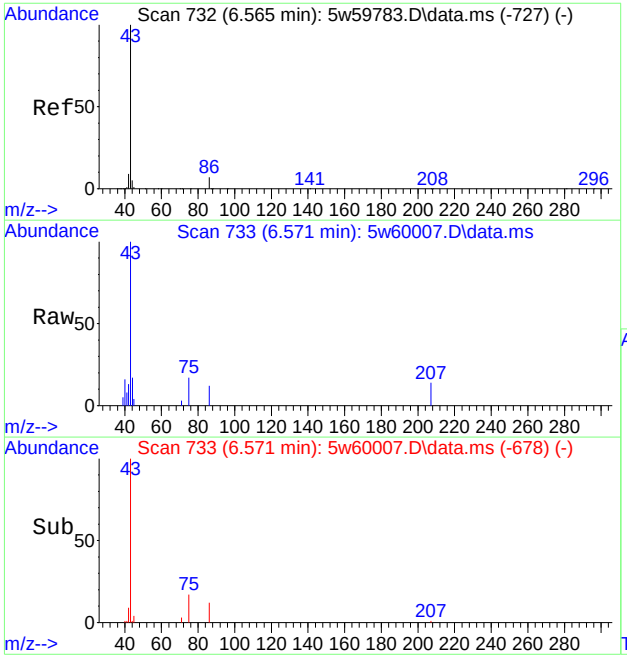


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.86 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.043 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 59 Resp: 83766

Ion	Ratio	Lower	Upper
59	100		
41	19.9	0.0	49.3
43	19.0	0.0	44.1

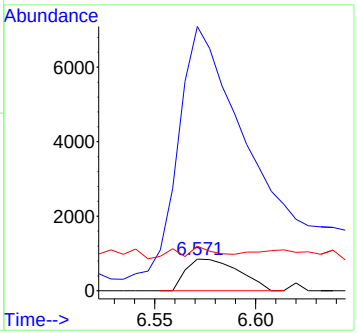


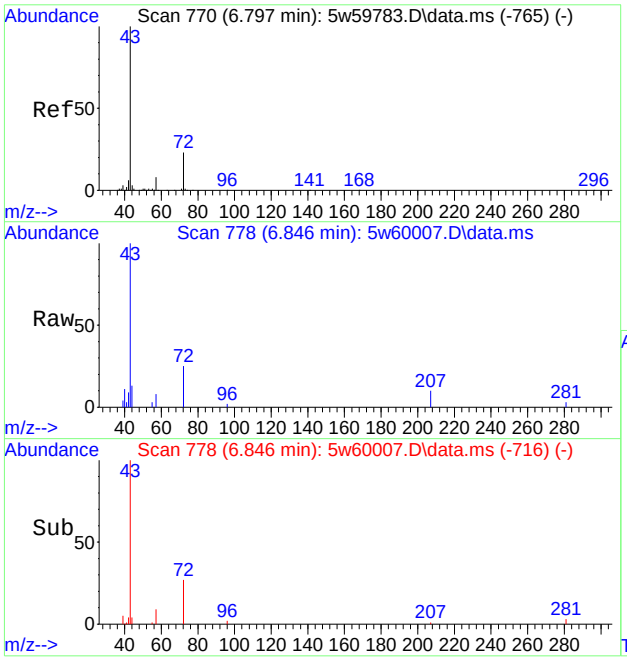


#39
VINYL ACETATE
Concen: 0.20 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 86 Resp: 1554

Ion	Ratio	Lower	Upper
86	100		
43	1596.5	1379.7	1439.7#
44	17.6	36.9	96.9#

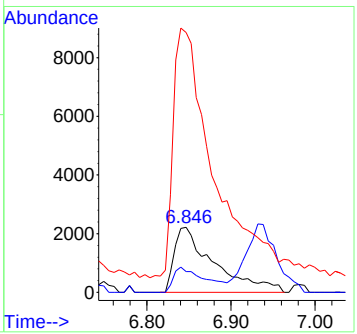


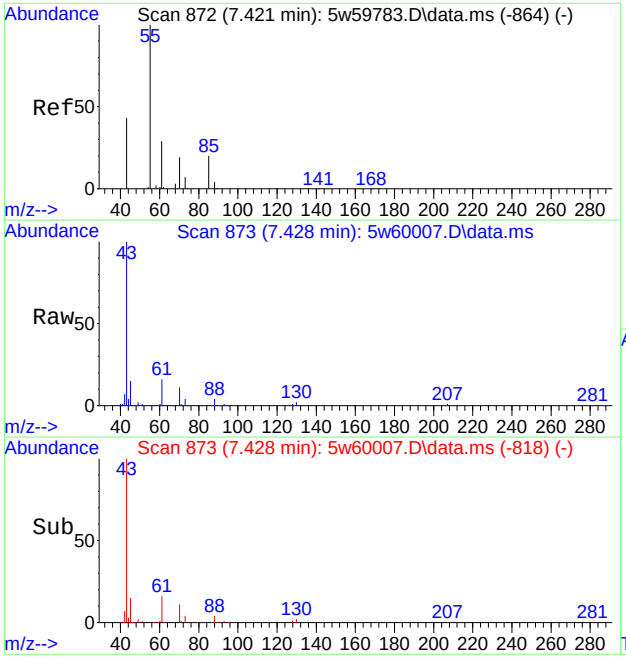


#41
METHYL ETHYL KETONE
Concen: 0.39 PPBV
RT: 6.846 min Scan# 778
Delta R.T. 0.049 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 72 Resp: 7325

Ion	Ratio	Lower	Upper
72	100		
57	32.1	4.8	64.8
43	399.6	415.9	475.9#

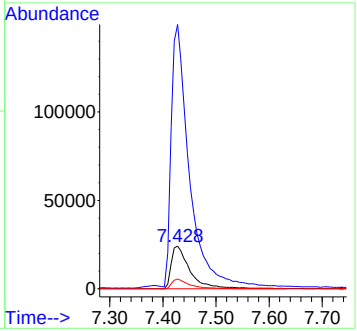


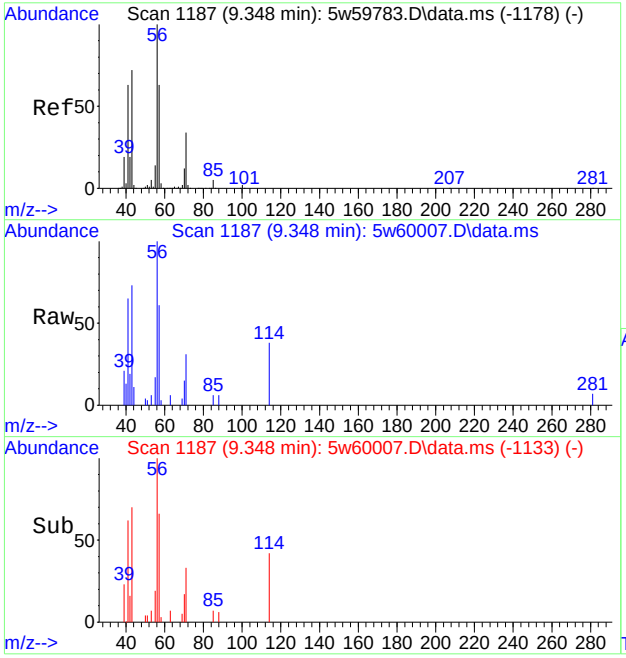


#44
ETHYL ACETATE
Concen: 4.18 PPBV
RT: 7.428 min Scan# 873
Delta R.T. 0.007 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 61 Resp: 60029

Ion	Ratio	Lower	Upper
61	100		
43	597.3	560.5	620.5
88	21.2	4.5	64.5

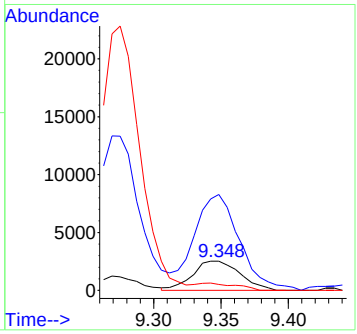


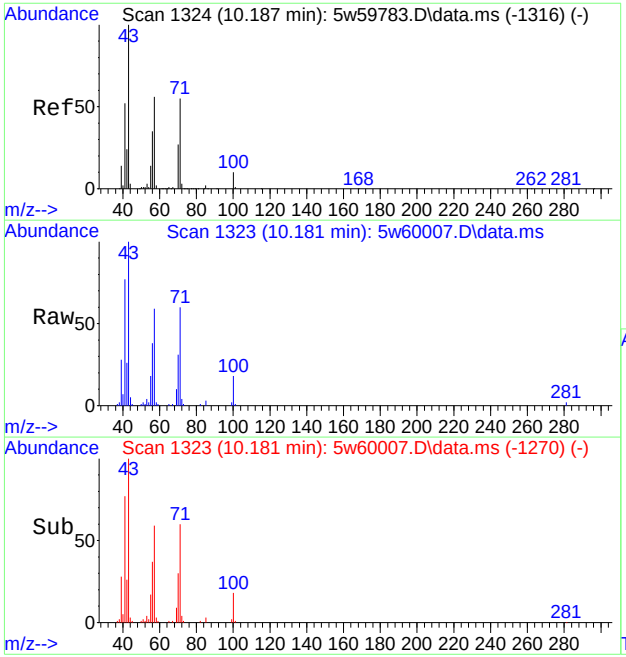


#54
2,3-DIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 71 Resp: 6220

Ion	Ratio	Lower	Upper
71	100		
56	312.7	264.6	324.6
85	0.0	0.0	45.3

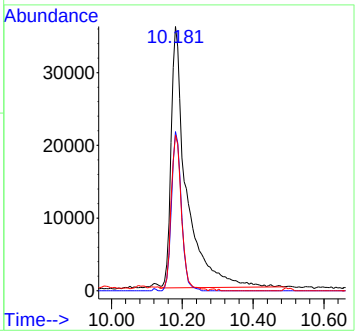


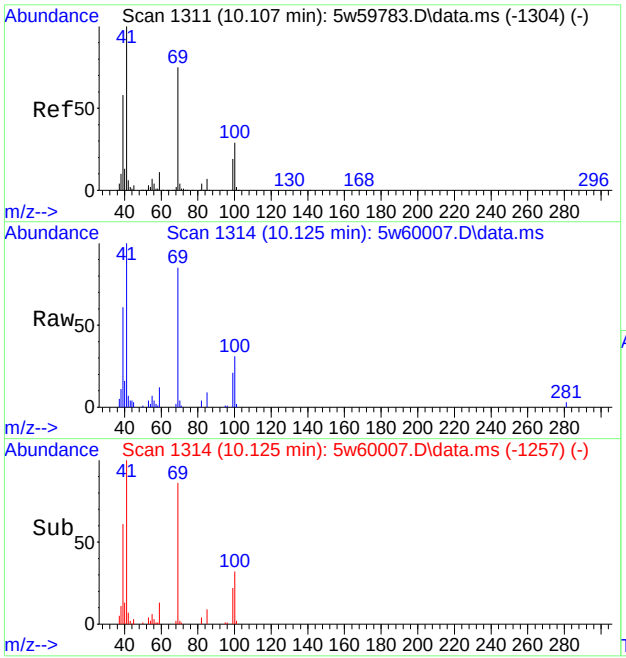


#62
HEPTANE
Concen: 1.27 PPBV
RT: 10.181 min Scan# 1323
Delta R.T. -0.006 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 43 Resp: 108616

Ion	Ratio	Lower	Upper
43	100		
71	39.1	24.5	84.5
57	40.1	26.2	86.2

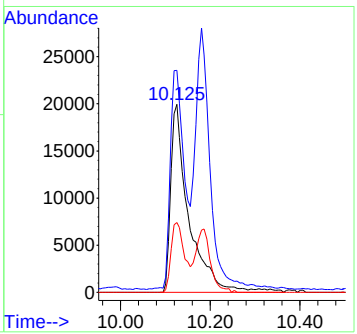


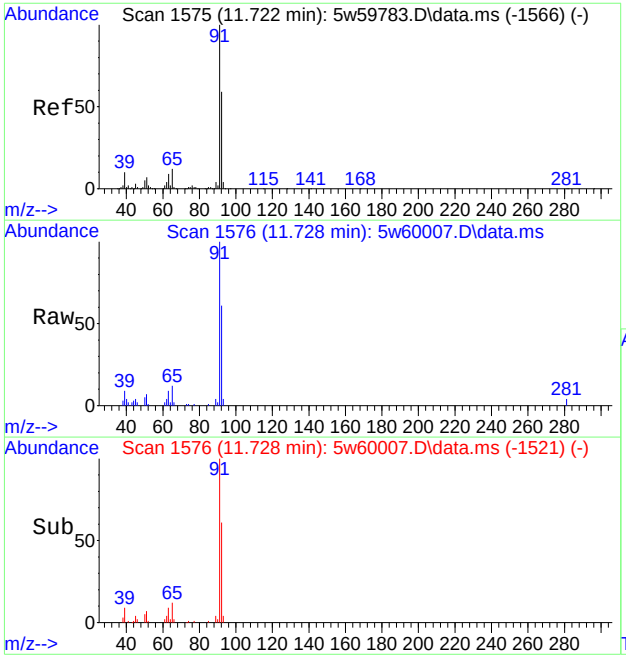


#63
METHYL METHACRYLATE
Concen: 1.17 PPBV
RT: 10.125 min Scan# 1314
Delta R.T. 0.018 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 69 Resp: 56459

Ion	Ratio	Lower	Upper
69	100		
41	90.0	95.3	155.3#
100	27.8	6.3	66.3

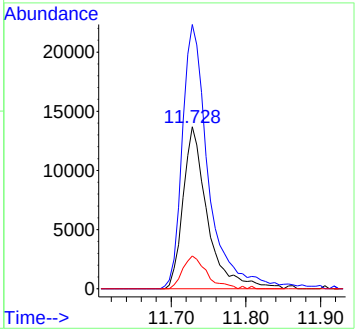


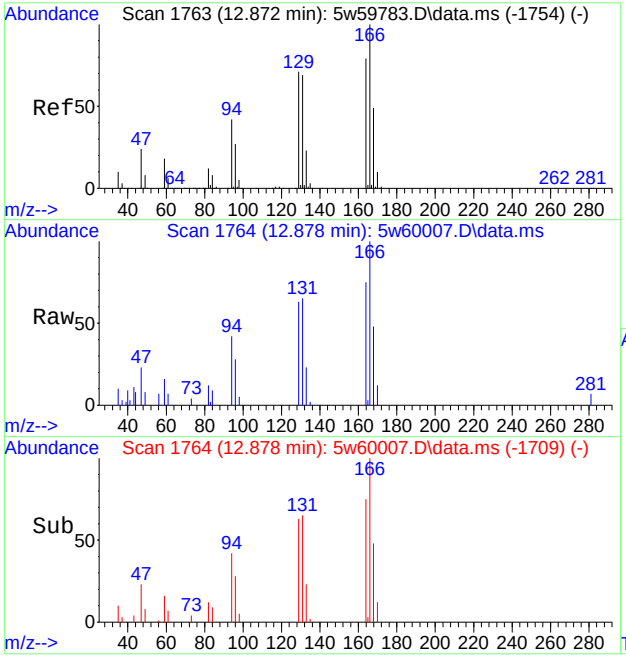


#66
TOLUENE
Concen: 0.28 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion: 92 Resp: 31106

Ion	Ratio	Lower	Upper
92	100		
91	176.0	140.1	200.1
65	19.8	0.0	53.1

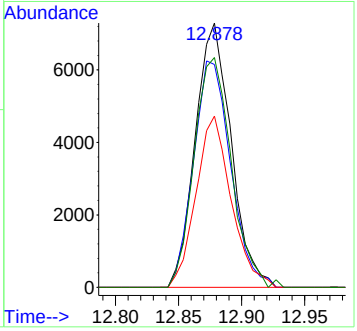


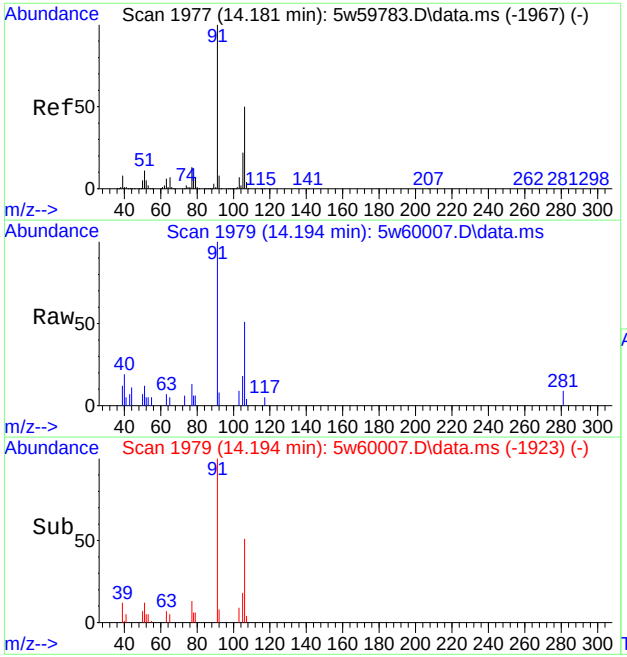


#73
TETRACHLOROETHYLENE
Concen: 0.19 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion:164 Resp: 14422

Ion	Ratio	Lower	Upper
164	100		
129	88.7	59.7	119.7
168	63.6	32.2	92.2
131	89.9	57.8	117.8

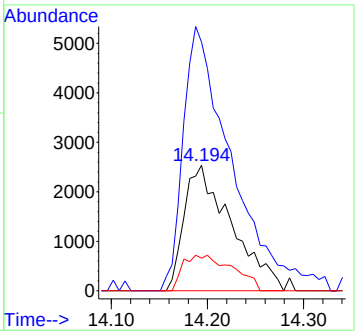




#80
m,p-XYLENE
Concen: 0.10 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w60007.D
Acq: 24 Nov 2025 3:56 pm

Tgt Ion:106 Resp: 8638

Ion	Ratio	Lower	Upper
106	100		
91	198.0	171.0	231.0
77	26.0	0.0	56.7



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 13:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60028.D
Acq On : 25 Nov 2025 7:20 am
Operator : benk
Sample : je23789-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 21:01:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

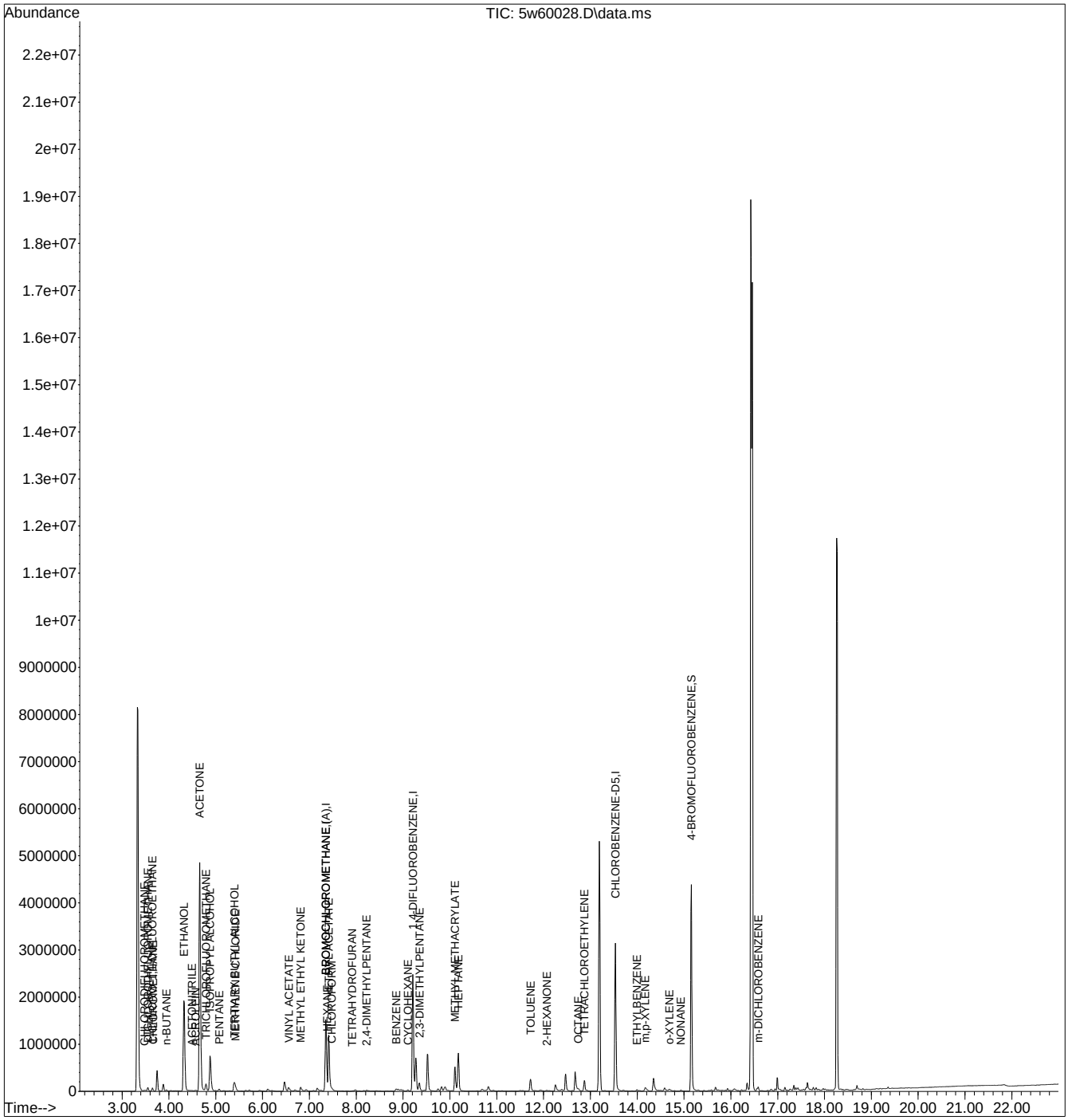
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	487990	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2191861	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1085055	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	488085	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1471248	10.85	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.50%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	3.476	67	2897	0.1914	PPBV	87
6) DICHLORODIFLUOROMETHANE	3.549	85	69806	0.4998	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	55533	0.4910	PPBV	99
10) CHLOROMETHANE	3.659	52	1669	0.1088	PPBV	86
13) n-BUTANE	3.947	43	20956m	0.4506	PPBV	
17) ACETONITRILE	4.491	41	5100	0.1920	PPBV #	85
18) ACROLEIN	4.571	56	11962	0.7923	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.791	101	122245	1.0248	PPBV	99
22) ISOPROPYL ALCOHOL	4.877	45	1138064	11.8930	PPBV	96
23) ACETONE	4.656	58	2451189	128.0719	PPBV	88
24) PENTANE	5.072	42	19127m	0.3847	PPBV	
28) ETHANOL	4.320	45	2701351	168.4986	PPBV	98
31) METHYLENE CHLORIDE	5.421	84	13082	0.2672	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.397	59	304244	3.1093	PPBV	94
37) TETRAHYDROFURAN	7.911	72	2572	0.1357	PPBV #	8
38) HEXANE	7.379	57	26876	0.3450	PPBV	94
39) VINYL ACETATE	6.559	86	8509	1.0799	PPBV #	44
41) METHYL ETHYL KETONE	6.810	72	36801	1.9524	PPBV #	79
44) ETHYL ACETATE	7.409	61	255075	17.7097	PPBV	96
46) CHLOROFORM	7.477	83	26429	0.2436	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	11721	0.1329	PPBV	97
52) BENZENE	8.853	78	41714	0.2841	PPBV	98
53) CYCLOHEXANE	9.104	84	10784	0.1838	PPBV	91
54) 2,3-DIMETHYLPENTANE	9.349	71	29638	0.9998	PPBV #	77
62) HEPTANE	10.181	43	475540	5.6282	PPBV	74
63) METHYL METHACRYLATE	10.107	69	234326	4.8963	PPBV	88
66) TOLUENE	11.722	92	125292	1.1415	PPBV	97
71) 2-HEXANONE	12.071	58	7447	0.1312	PPBV	85
73) TETRACHLOROETHYLENE	12.872	164	56457	0.7628	PPBV	98
76) OCTANE	12.738	43	45215m	0.4387	PPBV	
79) ETHYLBENZENE	13.992	91	28570	0.1374	PPBV	96
80) m,p-XYLENE	14.169	106	35971	0.4389	PPBV	100
81) o-XYLENE	14.683	106	13156	0.1714	PPBV	93
83) NONANE	14.934	43	13156	0.1262	PPBV	90
97) m-DICHLOROBENZENE	16.586	146	32480	0.2278	PPBV	98

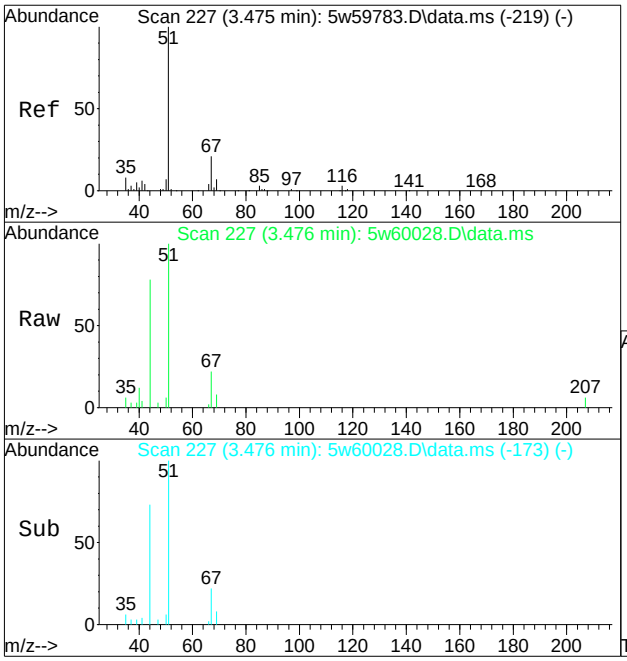
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60028.D
Acq On : 25 Nov 2025 7:20 am
Operator : benk
Sample : je23789-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 21:01:45 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

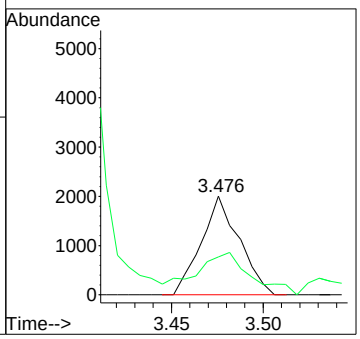


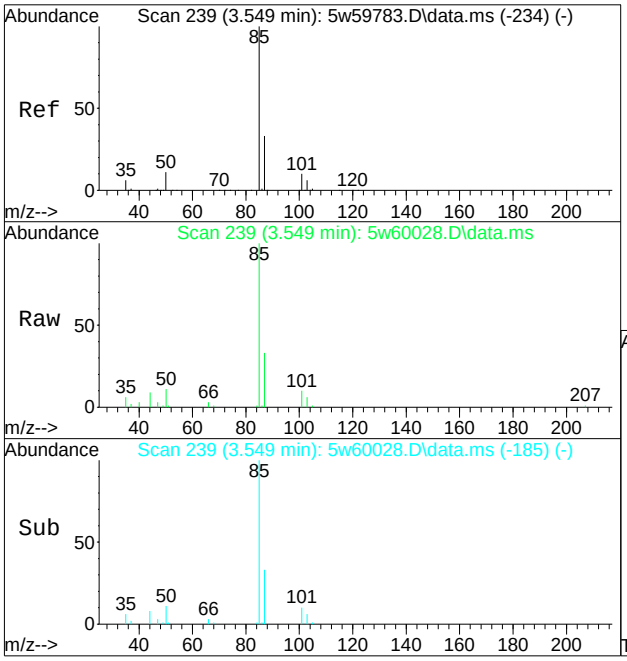


#4
CHLORODIFLUOROMETHANE
Concen: 0.1914 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 67 Resp: 2897

Ion	Ratio	Lower	Upper
67	100		
69	38.3	1.0	61.0

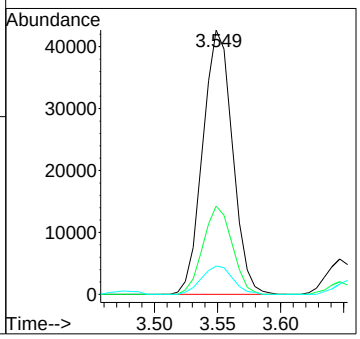


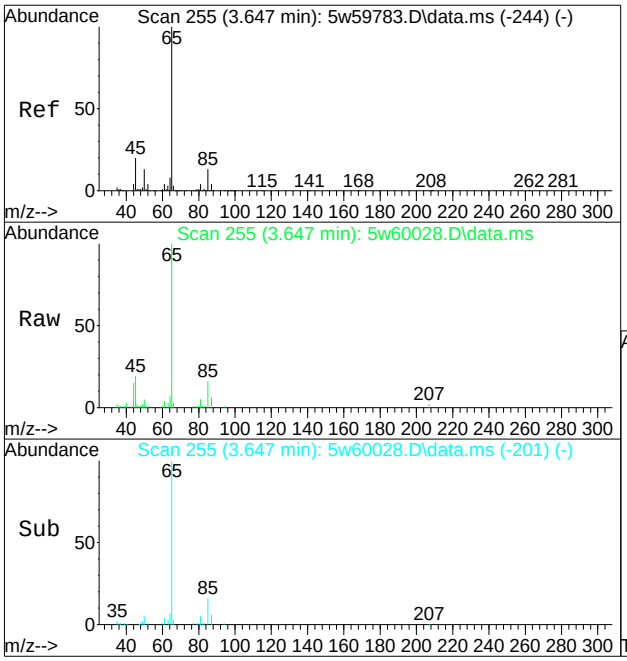


#6
DICHLORODIFLUOROMETHANE
Concen: 0.4998 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 85 Resp: 69806

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	11.3	0.0	41.7

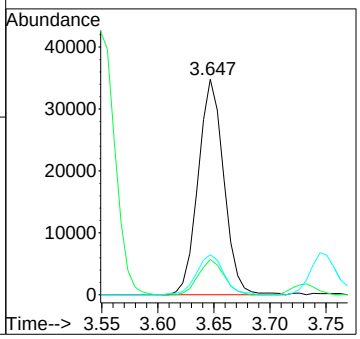


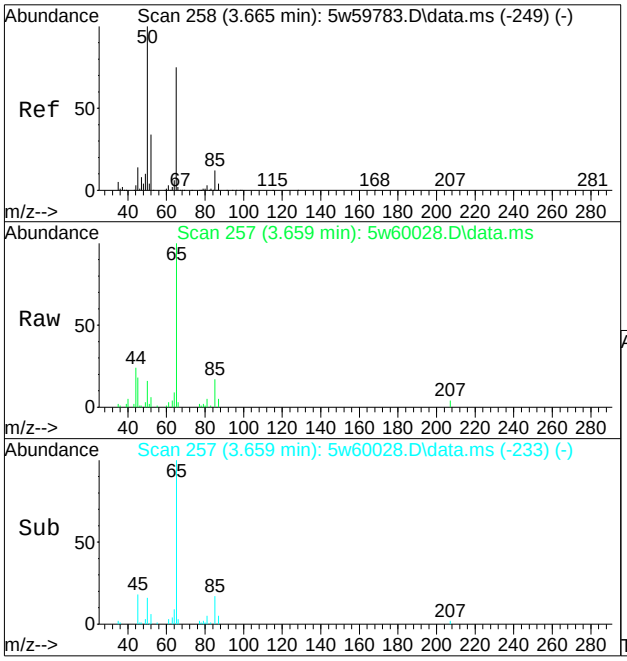


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.4910 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 65 Resp: 55533

Ion	Ratio	Lower	Upper
65	100		
85	16.2	11.5	21.3
45	19.8	14.0	26.0

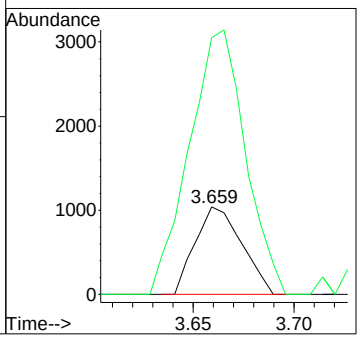


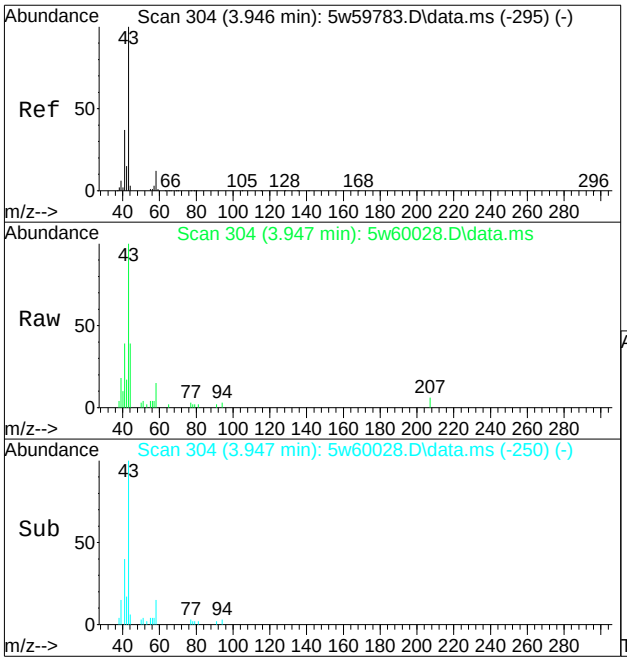


#10
CHLOROMETHANE
Concen: 0.1088 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 52 Resp: 1669

Ion	Ratio	Lower	Upper
52	100		
50	270.2	267.9	327.9

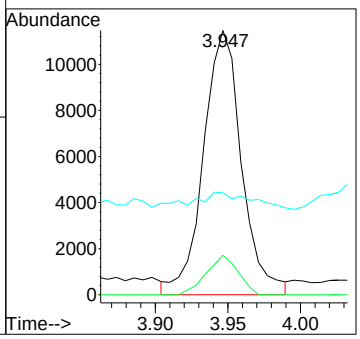


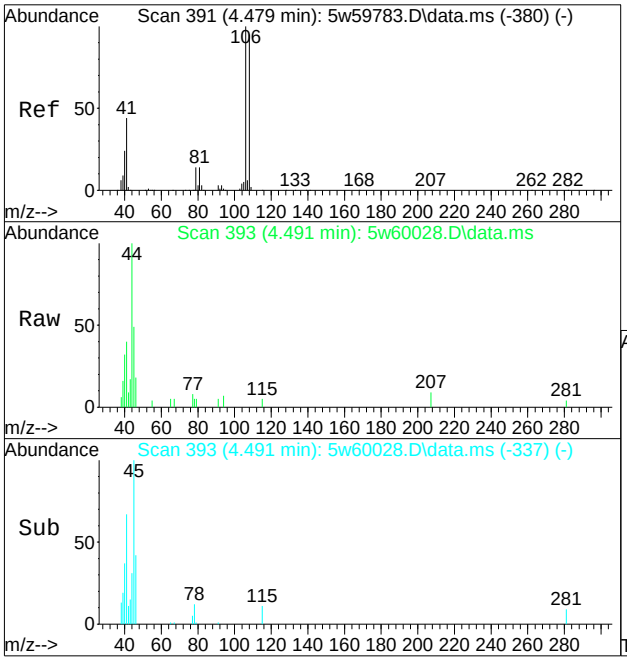


#13
n-BUTANE
Concen: 0.4506 PPBV m
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 43 Resp: 20956

Ion	Ratio	Lower	Upper
43	100		
58	12.5	0.0	42.6
44	8.0	0.0	34.9

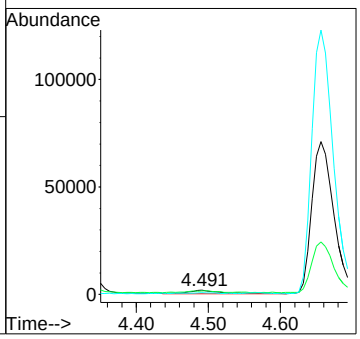


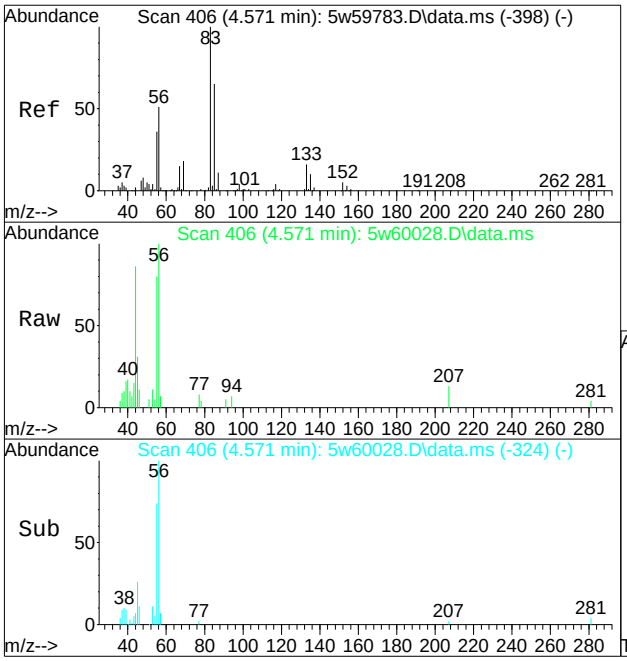


#17
ACETONITRILE
Concen: 0.1920 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 41 Resp: 5100

Ion	Ratio	Lower	Upper
41	100		
40	50.2	37.9	70.5
39	0.0	13.4	24.8#

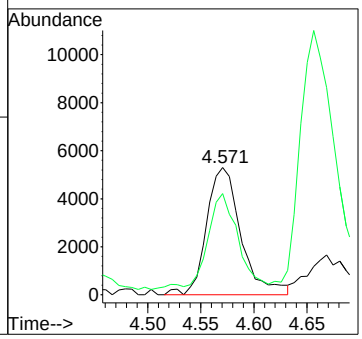


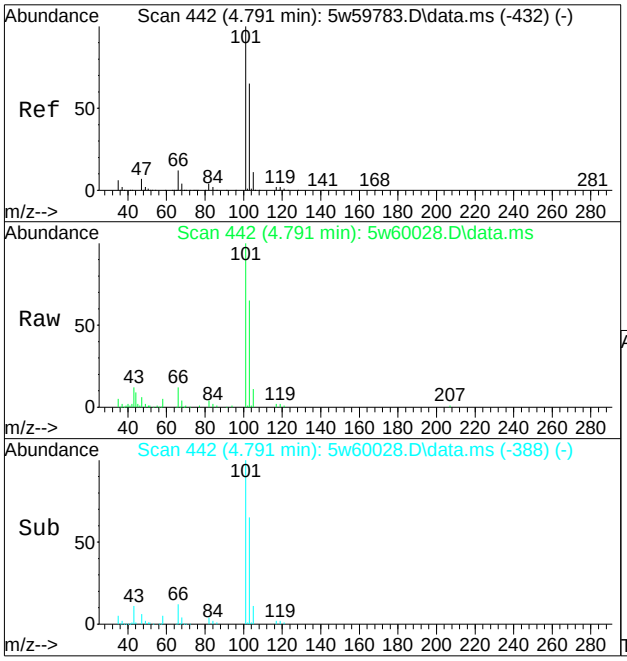


#18
ACROLEIN
Concen: 0.7923 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 56 Resp: 11962

Ion	Ratio	Lower	Upper
56	100		
55	68.2	46.6	86.6

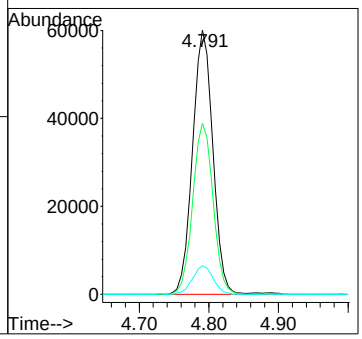


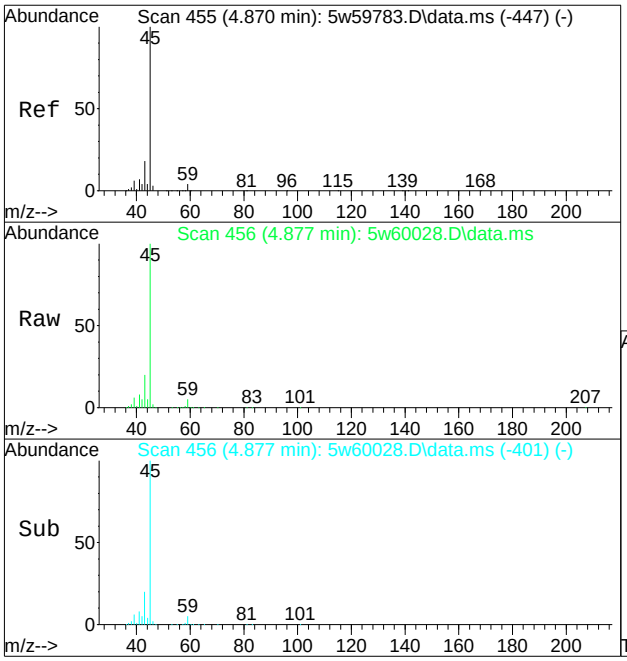


#21
TRICHLOROFLUOROMETHANE
Concen: 1.0248 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion:101 Resp: 122245

Ion	Ratio	Lower	Upper
101	100		
103	64.4	35.0	95.0
105	11.0	0.0	40.7

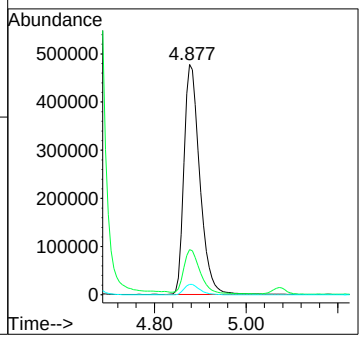


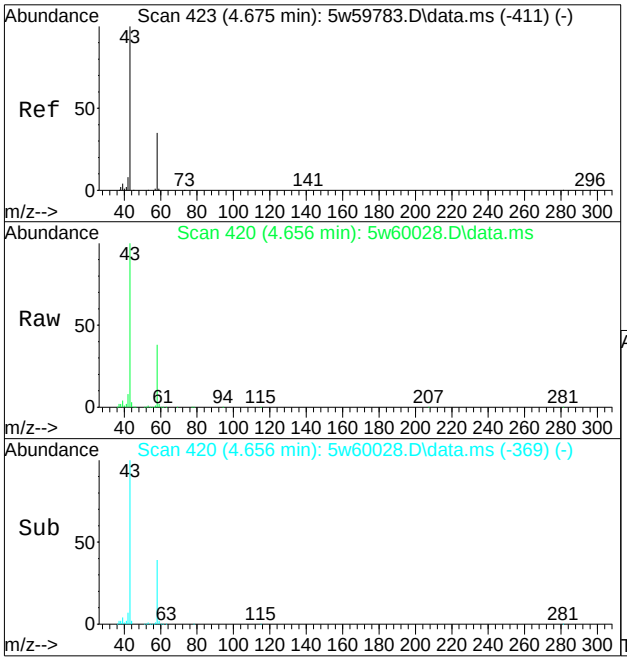


#22
ISOPROPYL ALCOHOL
Concen: 11.8930 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.007 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 45 Resp: 1138064

Ion	Ratio	Lower	Upper
45	100		
43	19.7	0.0	47.8
59	4.5	0.0	34.1

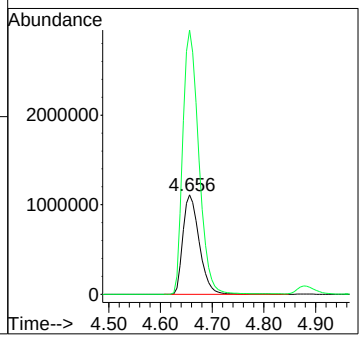


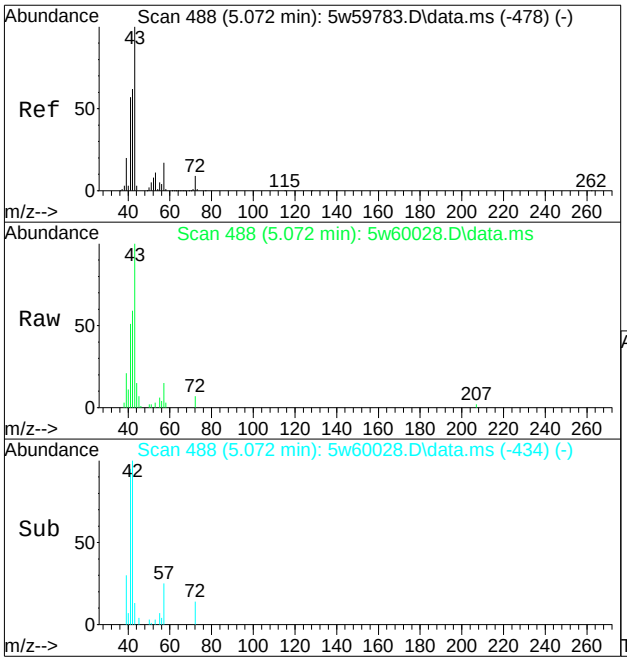


#23
ACETONE
Concen: 128.0719 PPBV
RT: 4.656 min Scan# 420
Delta R.T. -0.019 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 58 Resp: 2451189

Ion	Ratio	Lower	Upper
58	100		
43	260.4	252.3	312.3

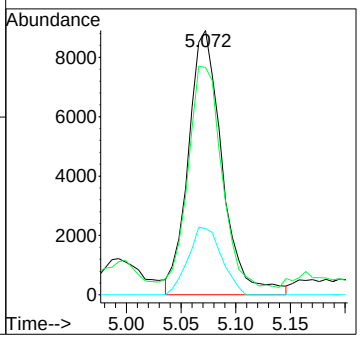


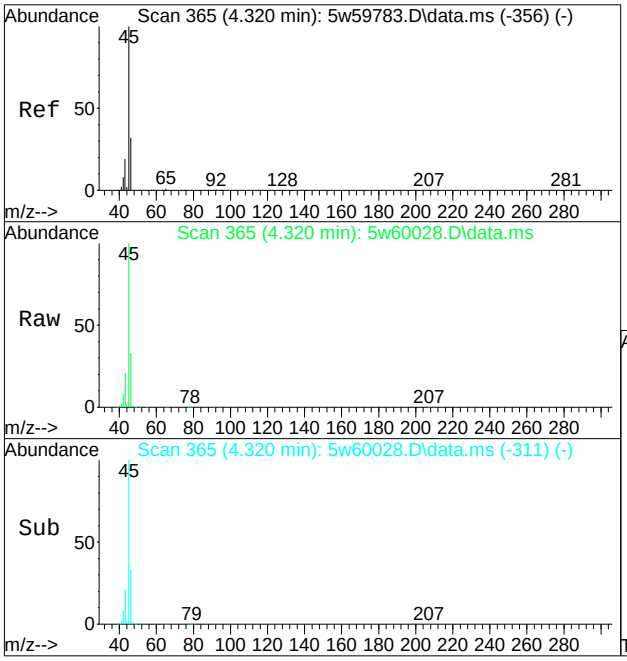


#24
PENTANE
Concen: 0.3847 PPBV m
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 42 Resp: 19127

Ion	Ratio	Lower	Upper
42	100		
41	83.2	62.3	122.3
57	25.3	0.0	57.7

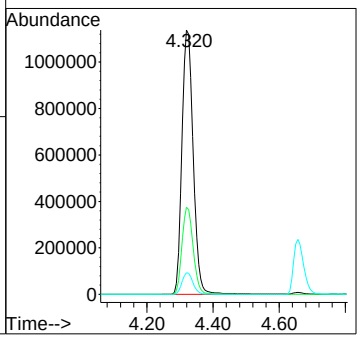


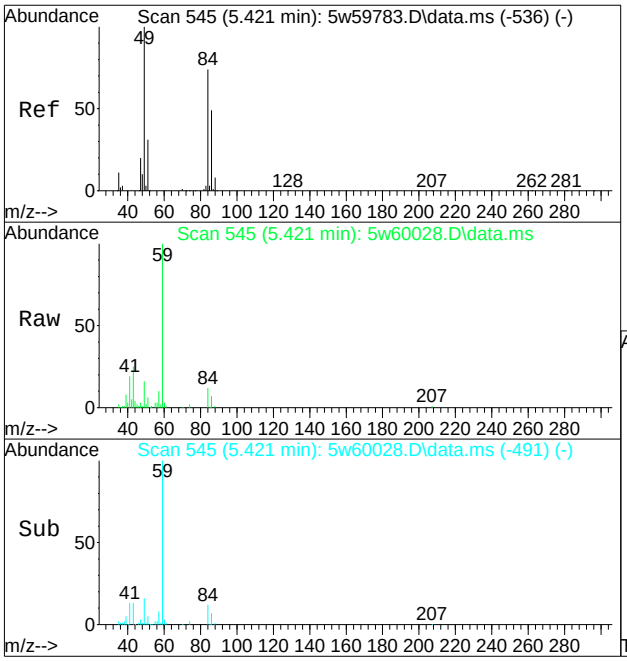


#28
ETHANOL
Concen: 168.4986 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 45 Resp: 2701351

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	8.0	0.0	38.5

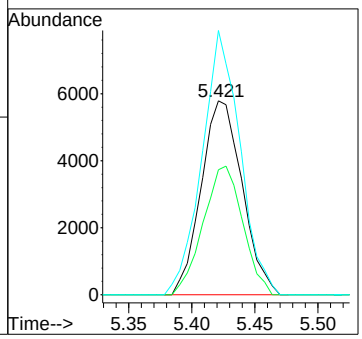


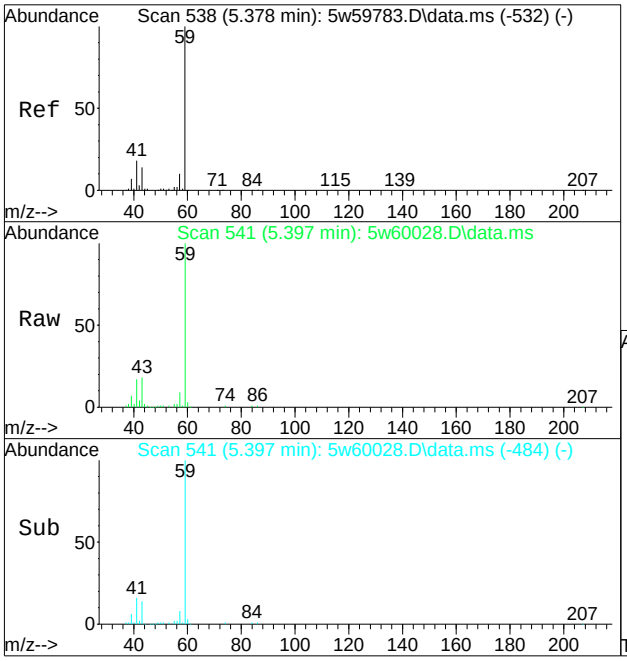


#31
METHYLENE CHLORIDE
Concen: 0.2672 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 84 Resp: 13082

Ion	Ratio	Lower	Upper
84	100		
86	63.9	35.2	95.2
49	126.0	105.3	165.3

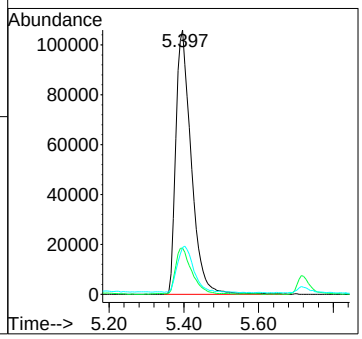


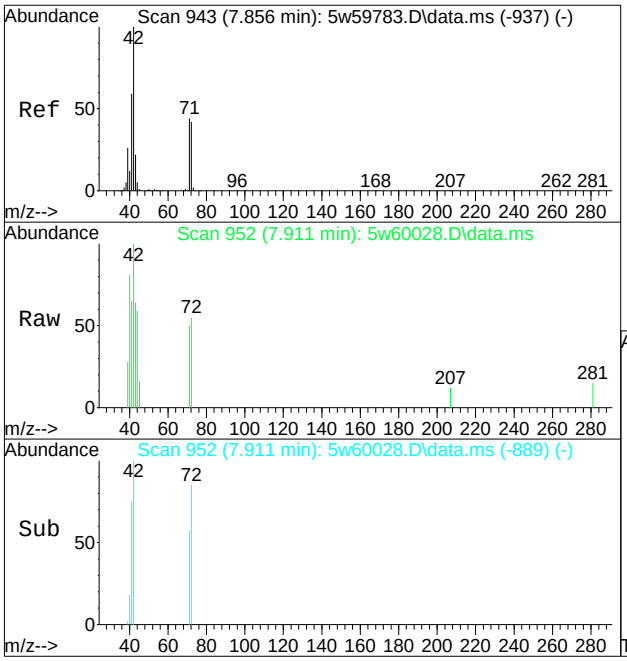


#35
TERTIARY BUTYL ALCOHOL
Concen: 3.1093 PPBV
RT: 5.397 min Scan# 541
Delta R.T. 0.019 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 59 Resp: 304244

Ion	Ratio	Lower	Upper
59	100		
41	18.8	0.0	49.3
43	19.4	0.0	44.1

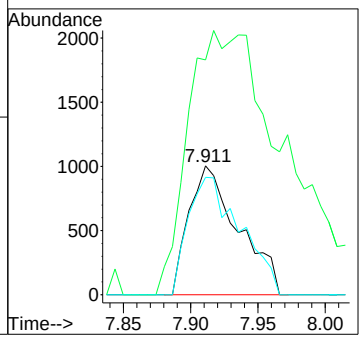


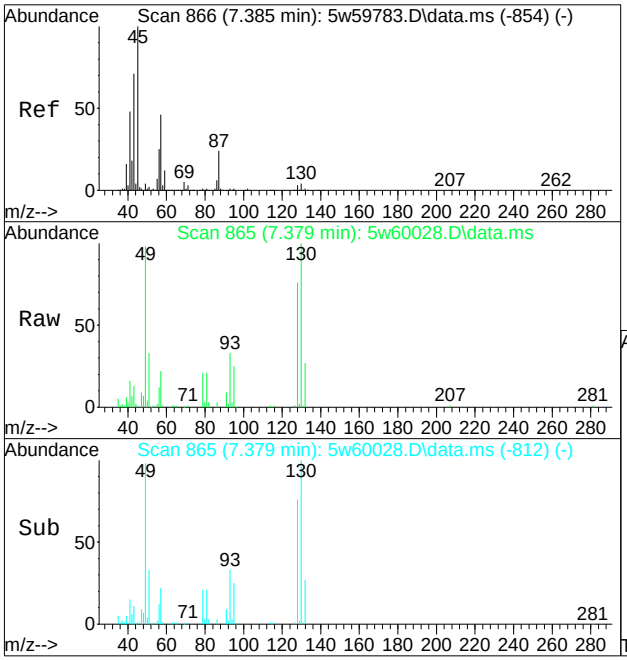


#37
TETRAHYDROFURAN
Concen: 0.1357 PPBV
RT: 7.911 min Scan# 952
Delta R.T. 0.055 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 72 Resp: 2572

Ion	Ratio	Lower	Upper
72	100		
42	448.9	202.4	262.4#
71	96.6	71.1	131.1

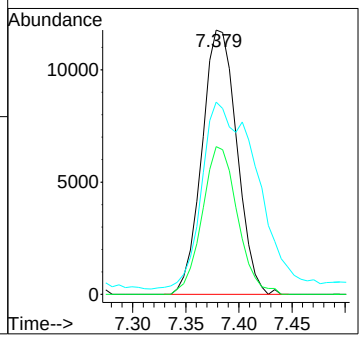


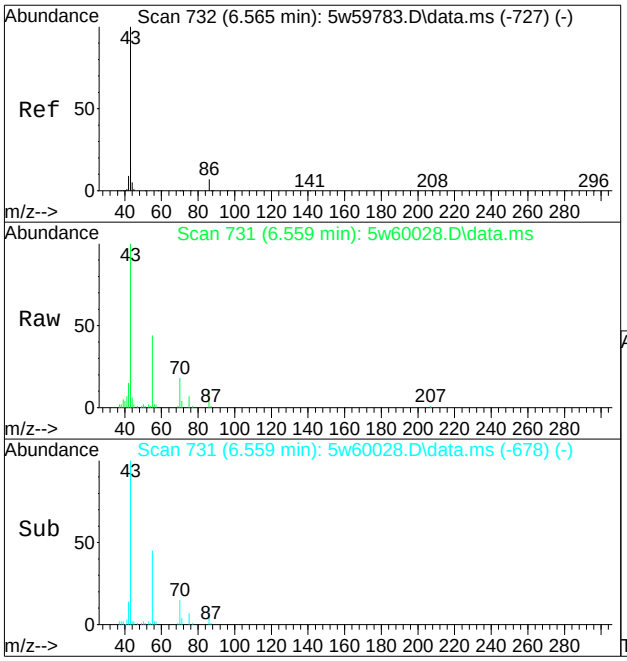


#38
HEXANE
Concen: 0.3450 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 57 Resp: 26876

Ion	Ratio	Lower	Upper
57	100		
56	56.6	25.9	85.9
41	114.0	74.7	134.7

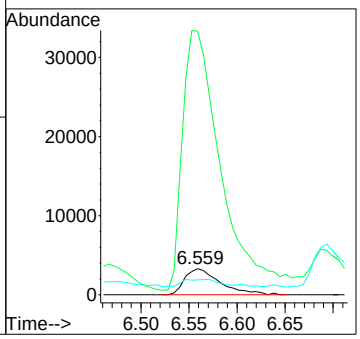


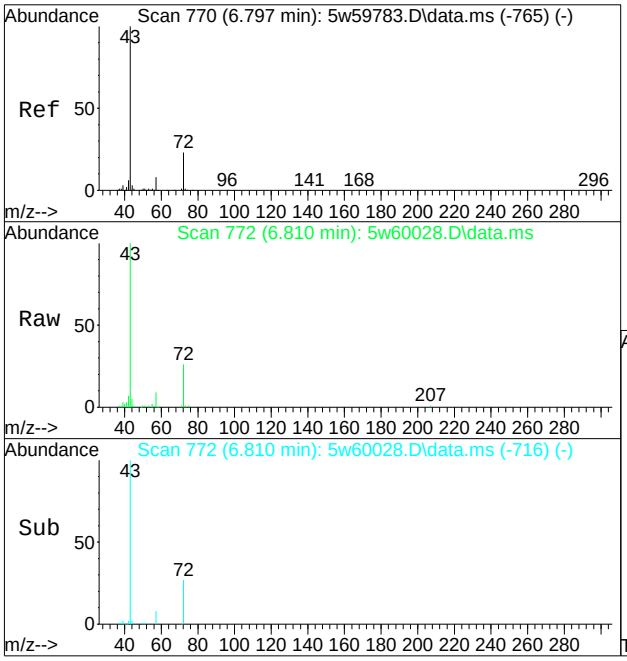


#39
VINYL ACETATE
Concen: 1.0799 PPBV
RT: 6.559 min Scan# 731
Delta R.T. -0.006 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 86 Resp: 8509

Ion	Ratio	Lower	Upper
86	100		
43	1087.7	1379.7	1439.7#
44	29.4	36.9	96.9#

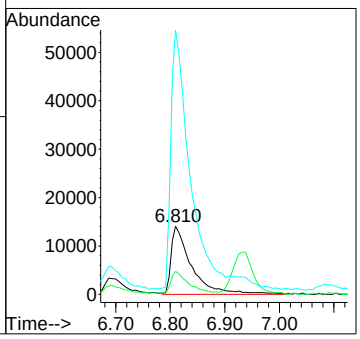


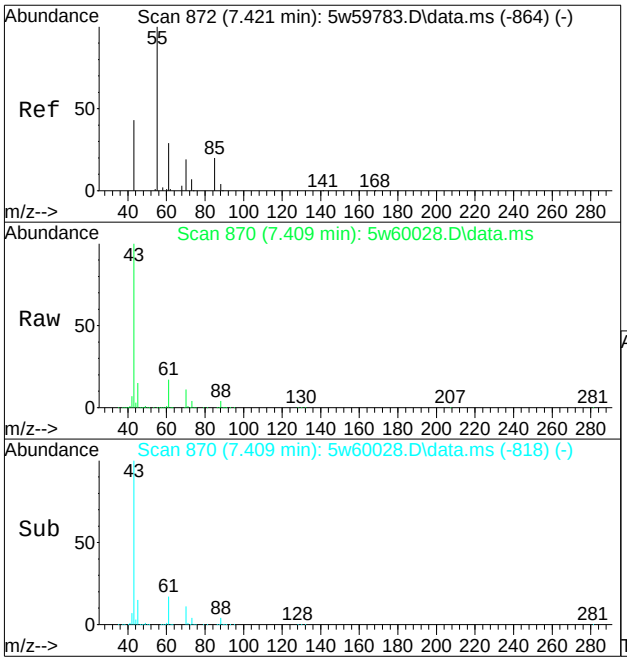


#41
METHYL ETHYL KETONE
Concen: 1.9524 PPBV
RT: 6.810 min Scan# 772
Delta R.T. 0.013 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 72 Resp: 36801

Ion	Ratio	Lower	Upper
72	100		
57	33.8	4.8	64.8
43	388.7	415.9	475.9#

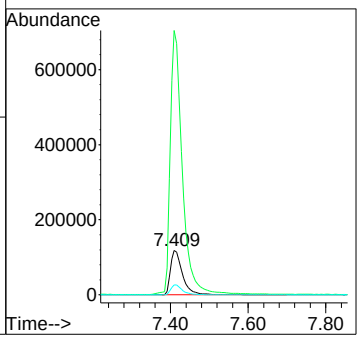


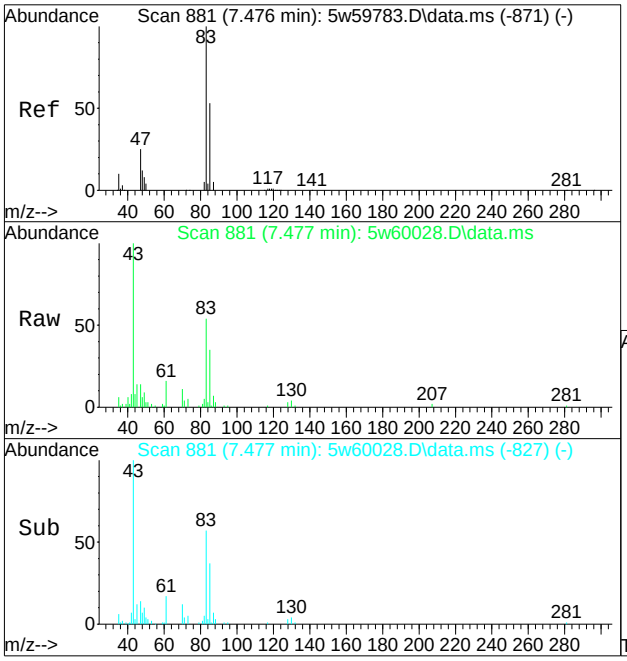


#44
ETHYL ACETATE
Concen: 17.7097 PPBV
RT: 7.409 min Scan# 870
Delta R.T. -0.012 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 61 Resp: 255075

Ion	Ratio	Lower	Upper
61	100		
43	598.2	560.5	620.5
88	21.6	4.5	64.5

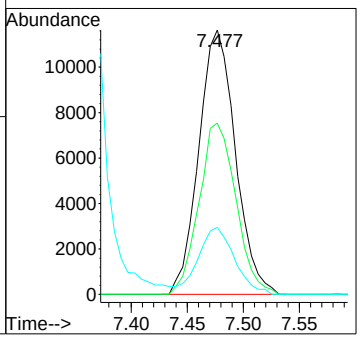


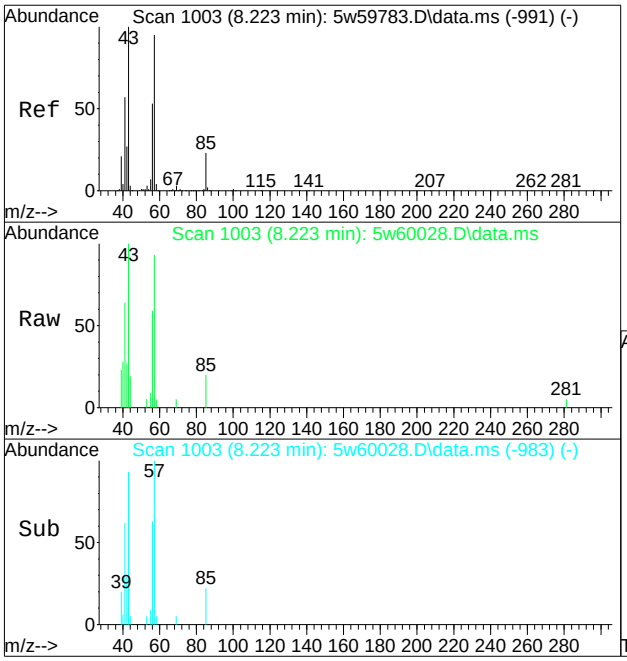


#46
CHLOROFORM
Concen: 0.2436 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 83 Resp: 26429

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.6	95.6
47	25.0	0.0	55.2

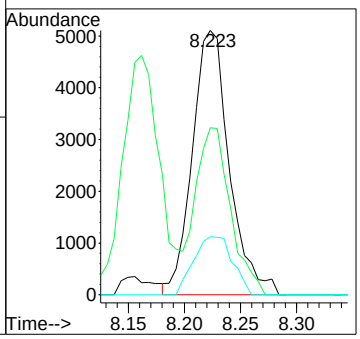


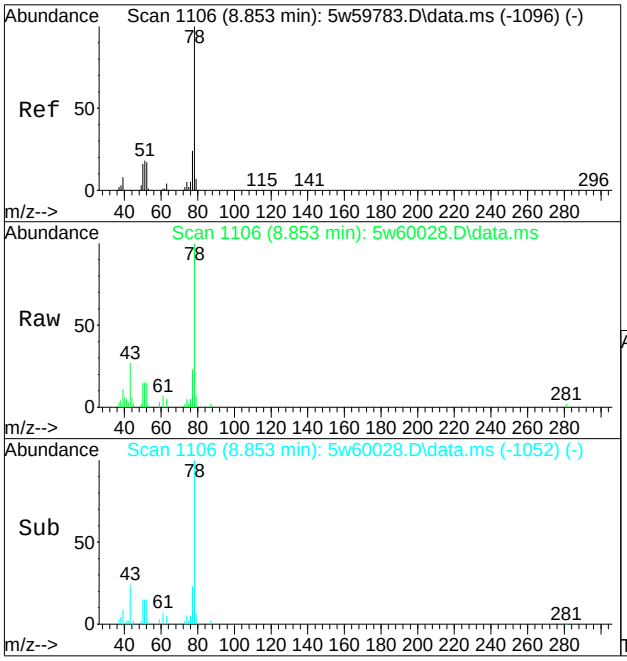


#47
2,4-DIMETHYLPENTANE
Concen: 0.1329 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 57 Resp: 11721

Ion	Ratio	Lower	Upper
57	100		
56	59.0	26.5	86.5
85	23.0	0.0	53.8

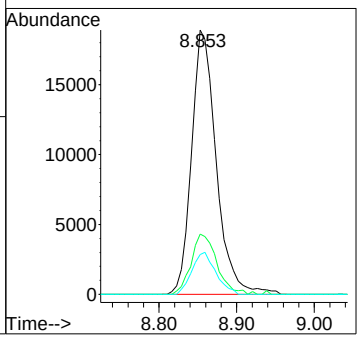


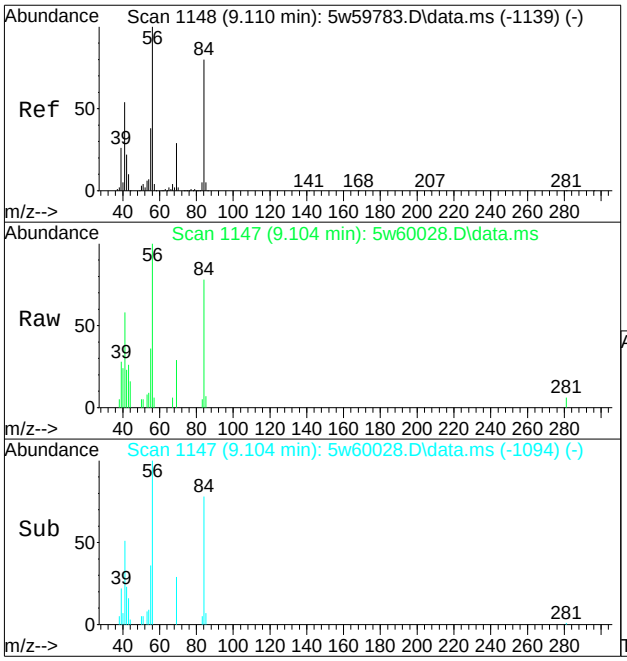


#52
BENZENE
Concen: 0.2841 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 78 Resp: 41714

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	15.4	0.0	46.9

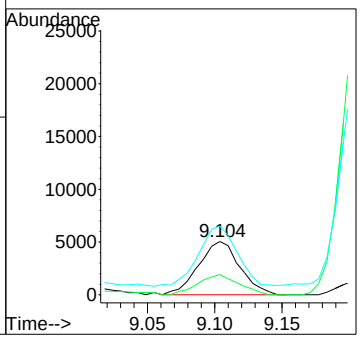


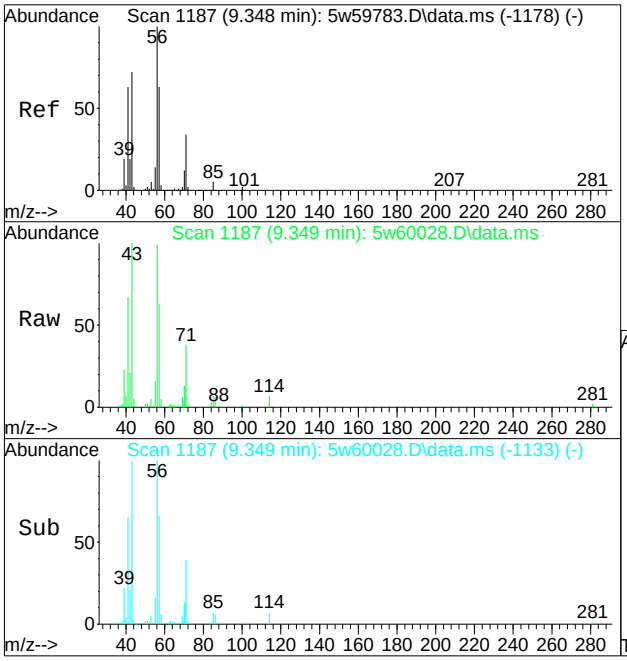


#53
CYCLOHEXANE
Concen: 0.1838 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 84 Resp: 10784

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	140.9	98.2	158.2

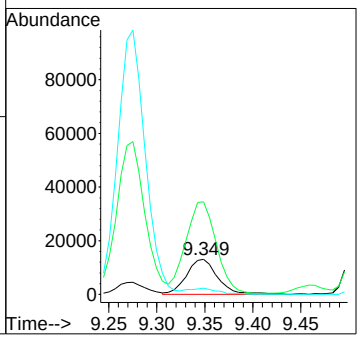


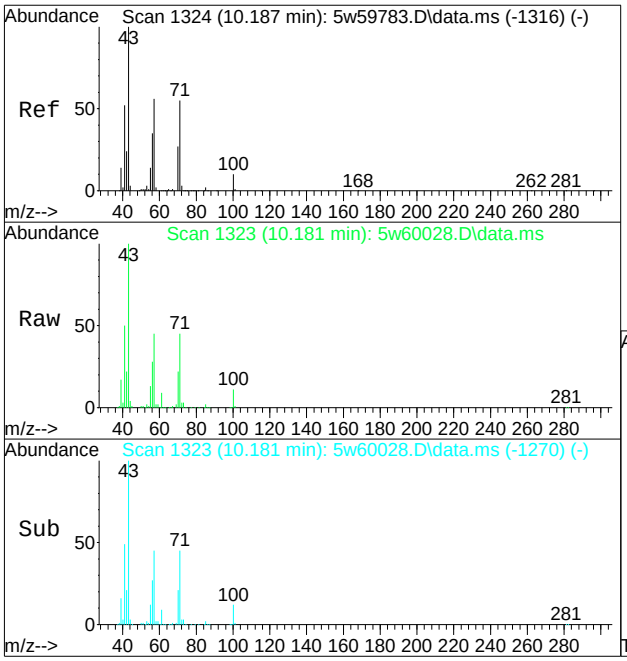


#54
2,3-DIMETHYLPENTANE
Concen: 0.9998 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 71 Resp: 29638

Ion	Ratio	Lower	Upper
71	100		
56	250.4	264.6	324.6#
85	0.0	0.0	45.3

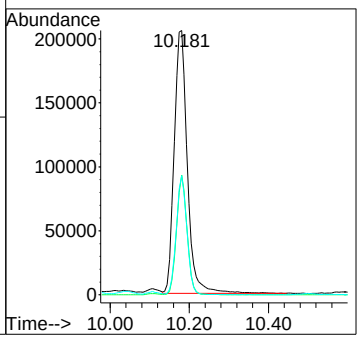


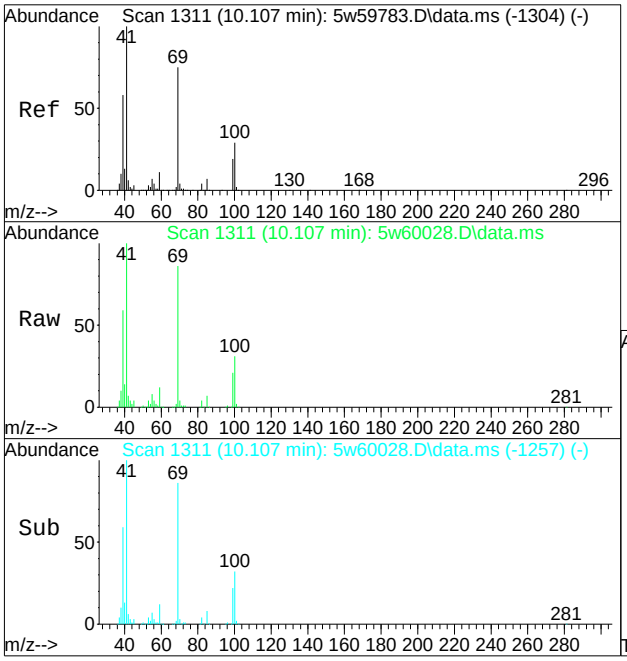


#62
HEPTANE
Concen: 5.6282 PPBV
RT: 10.181 min Scan# 1323
Delta R.T. -0.006 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 43 Resp: 475540

Ion	Ratio	Lower	Upper
43	100		
71	36.5	24.5	84.5
57	36.9	26.2	86.2

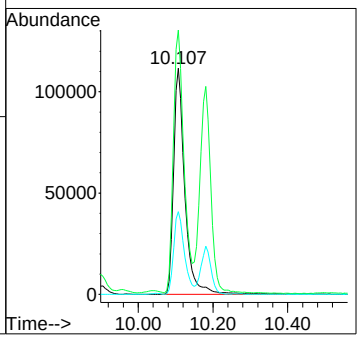


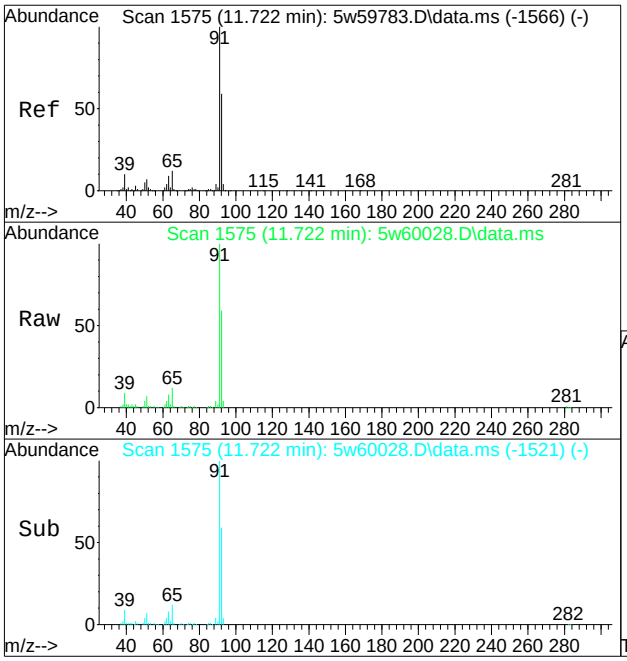


#63
METHYL METHACRYLATE
Concen: 4.8963 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 69 Resp: 234326

Ion	Ratio	Lower	Upper
69	100		
41	108.5	95.3	155.3
100	34.7	6.3	66.3

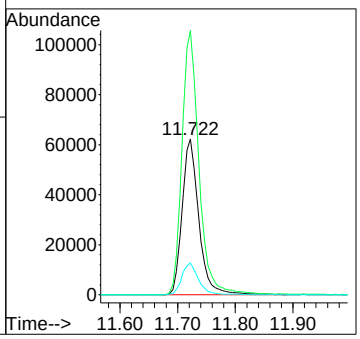


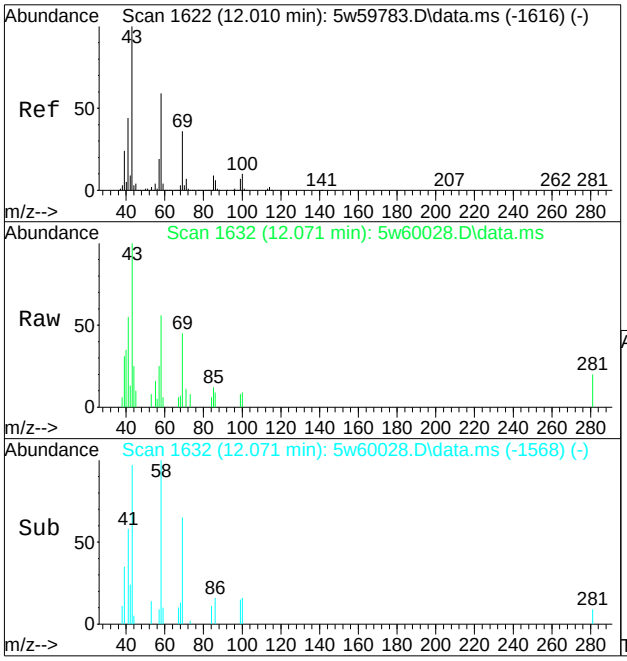


#66
TOLUENE
Concen: 1.1415 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 92 Resp: 125292

Ion	Ratio	Lower	Upper
92	100		
91	173.5	140.1	200.1
65	20.6	0.0	53.1

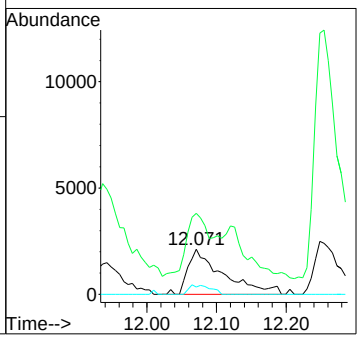


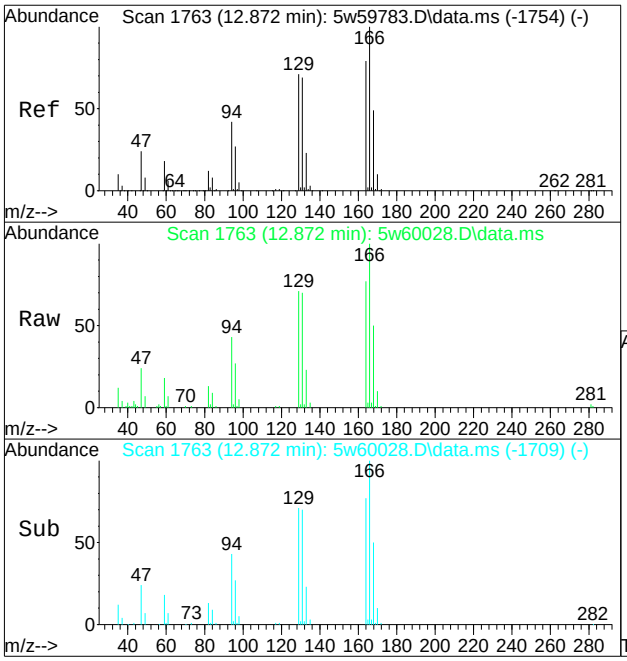


#71
2-HEXANONE
Concen: 0.1312 PPBV
RT: 12.071 min Scan# 1632
Delta R.T. 0.061 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 58 Resp: 7447

Ion	Ratio	Lower	Upper
58	100		
43	187.9	137.2	197.2
100	12.6	0.0	46.9

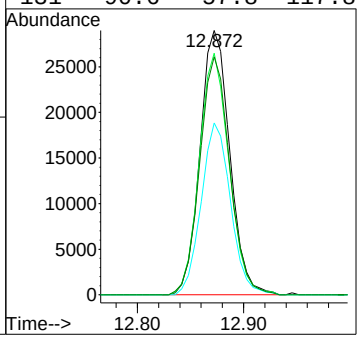


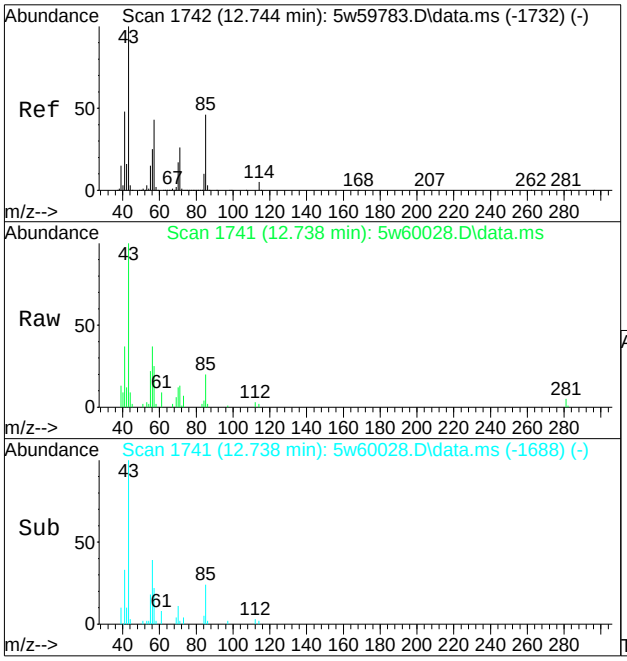


#73
TETRACHLOROETHYLENE
Concen: 0.7628 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion:164 Resp: 56457

Ion	Ratio	Lower	Upper
164	100		
129	91.4	59.7	119.7
168	63.9	32.2	92.2
131	90.6	57.8	117.8

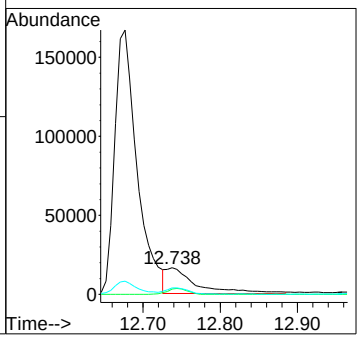


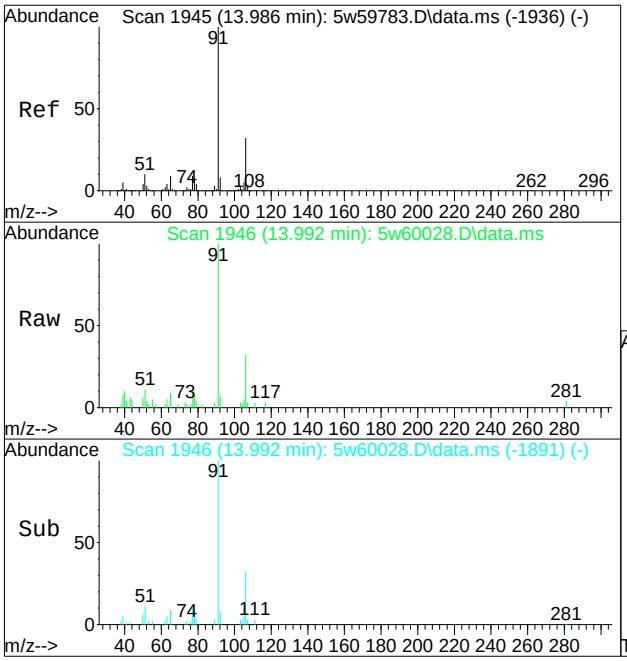


#76
OCTANE
Concen: 0.4387 PPBV m
RT: 12.738 min Scan# 1741
Delta R.T. -0.006 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 43 Resp: 45215

Ion	Ratio	Lower	Upper
43	100		
85	0.0	14.6	74.6#
57	36.4	13.7	73.7

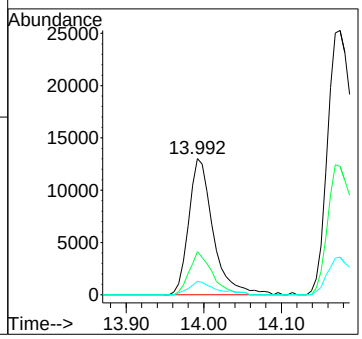


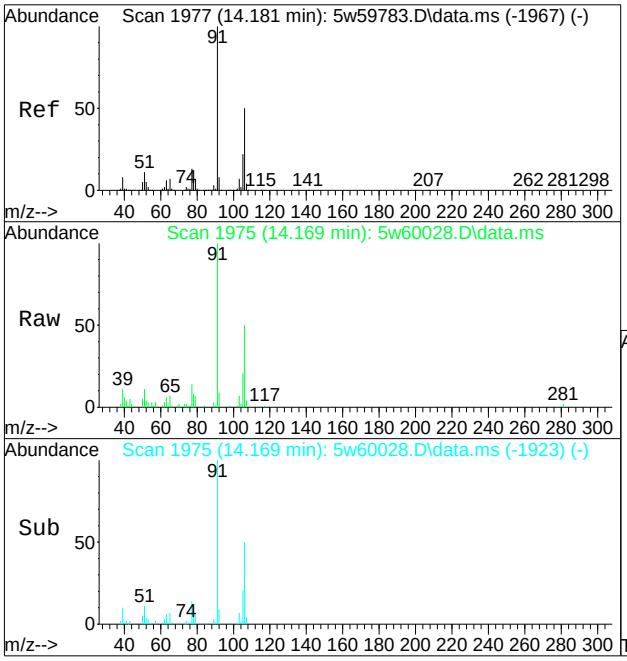


#79
ETHYLBENZENE
Concen: 0.1374 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 91 Resp: 28570

Ion	Ratio	Lower	Upper
91	100		
106	29.8	1.3	61.3
77	10.9	0.0	38.6

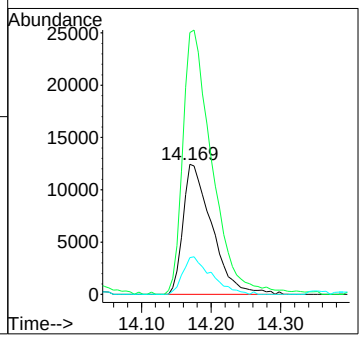


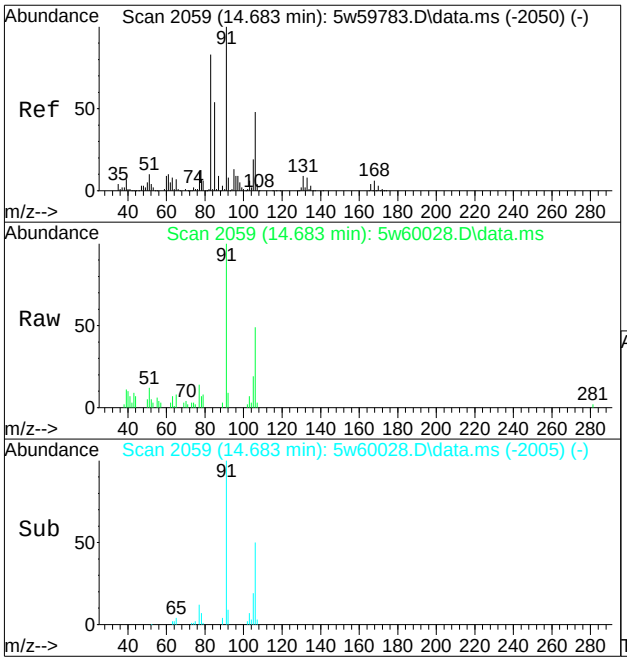


#80
m,p-XYLENE
Concen: 0.4389 PPBV
RT: 14.169 min Scan# 1975
Delta R.T. -0.012 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion:106 Resp: 35971

Ion	Ratio	Lower	Upper
106	100		
91	201.1	171.0	231.0
77	28.3	0.0	56.7

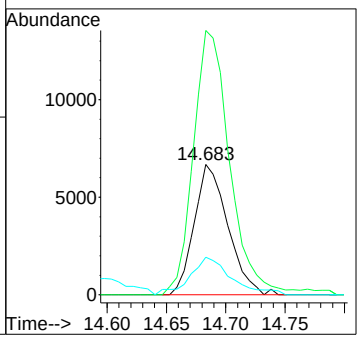


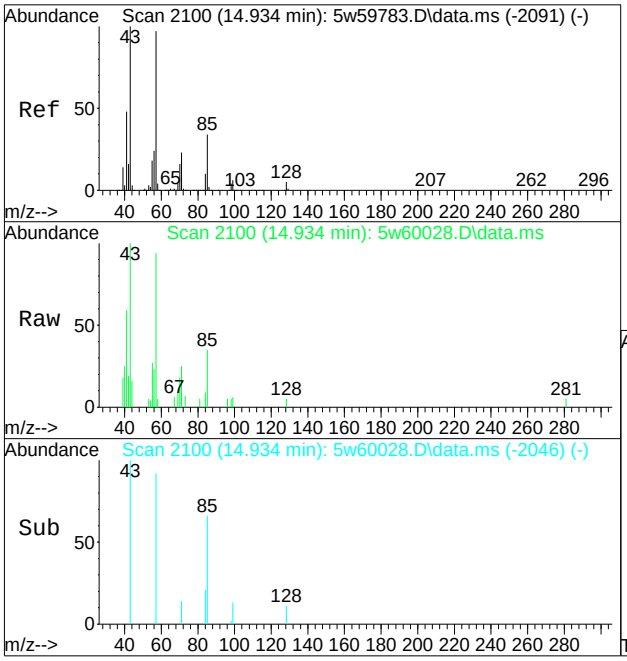


#81
o-XYLENE
Concen: 0.1714 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion:106 Resp: 13156

Ion	Ratio	Lower	Upper
106	100		
91	221.5	181.6	241.6
77	35.1	0.0	56.6

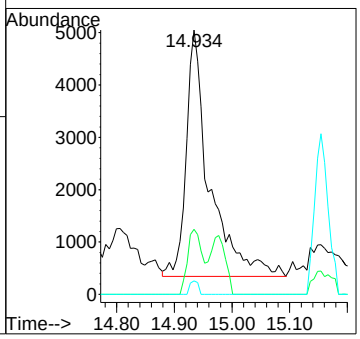


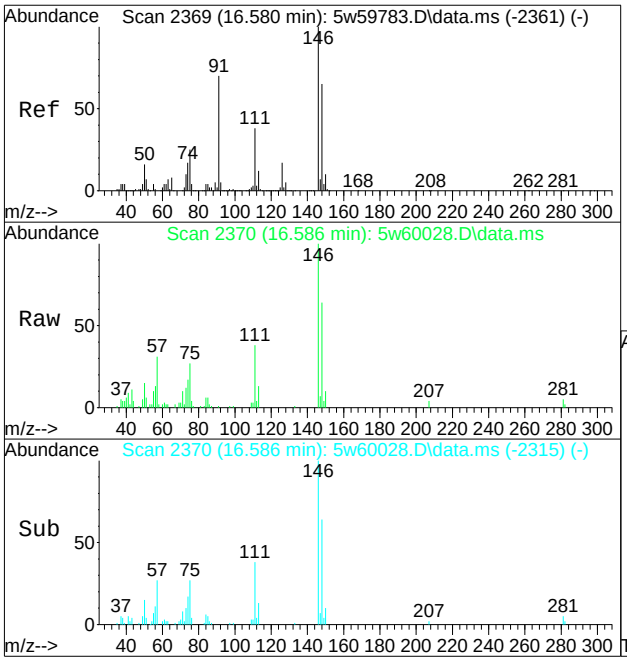


#83
NONANE
Concen: 0.1262 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion: 43 Resp: 13156

Ion	Ratio	Lower	Upper
43	100		
71	17.9	0.0	52.7
128	1.9	0.0	34.7

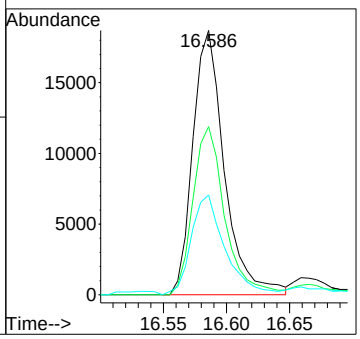




#97
m-DICHLOROBENZENE
Concen: 0.2278 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w60028.D
Acq: 25 Nov 2025 7:20 am

Tgt Ion:146 Resp: 32480

Ion	Ratio	Lower	Upper
146	100		
148	63.8	34.8	94.8
111	40.3	8.2	68.2



Manual Integration Approval Summary

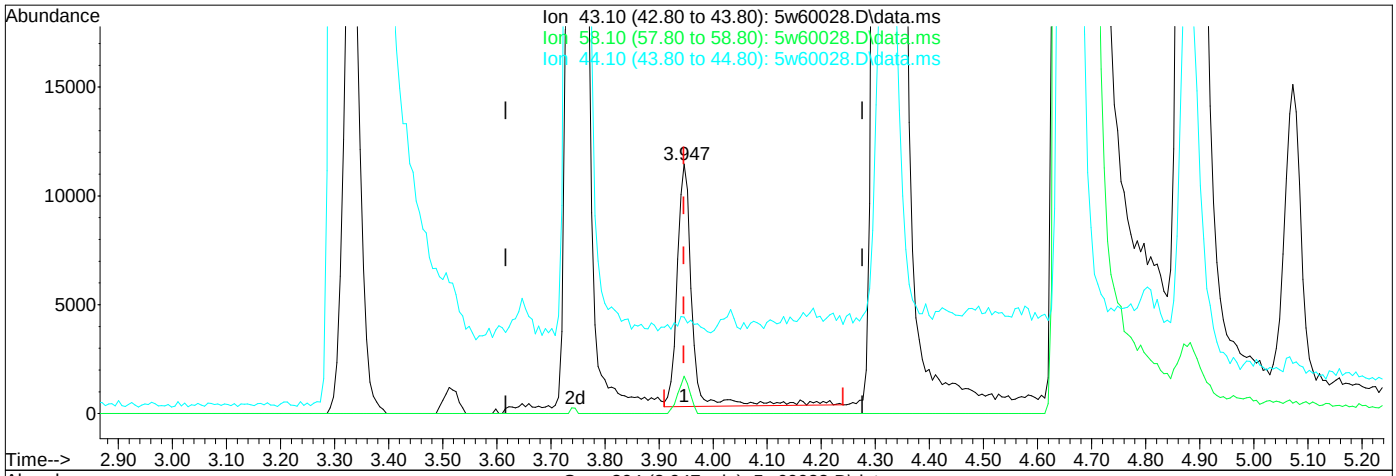
Sample Number: JE23789-3 **Method:** TO-15
Lab FileID: 5W60028.D **Analyst approved:** 11/26/25 08:03 Geralyn Gomez
Injection Time: 11/25/25 07:20 **Supervisor approved:** 11/26/25 13:42 Kanya Veerawat

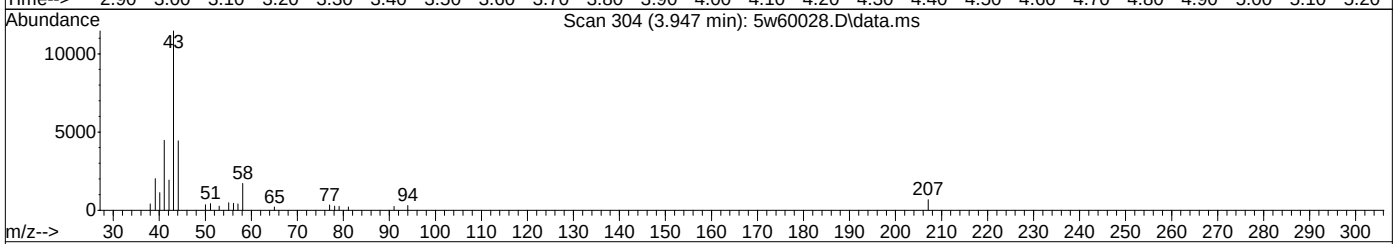
Parameter	CAS	Sig#	R.T. (min.)	Reason
n-Butane	106-97-8		3.95	Overlapping peak
Pentane	109-66-0		5.07	Poorly defined baseline
Octane	111-65-9		12.74	Overlapping peak

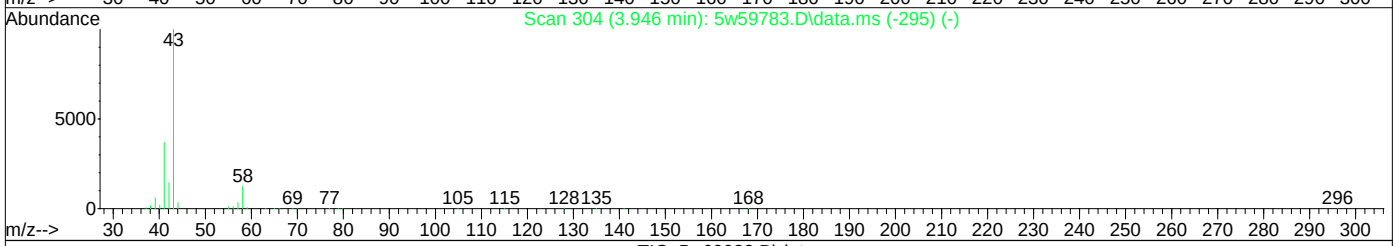
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60028.D
Acq On : 25 Nov 2025 7:20 am
Operator : benk
Sample : je23789-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 20:04:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60028.D\data.ms

(13) n-BUTANE

3.947min (+0.001) 0.46PPBV

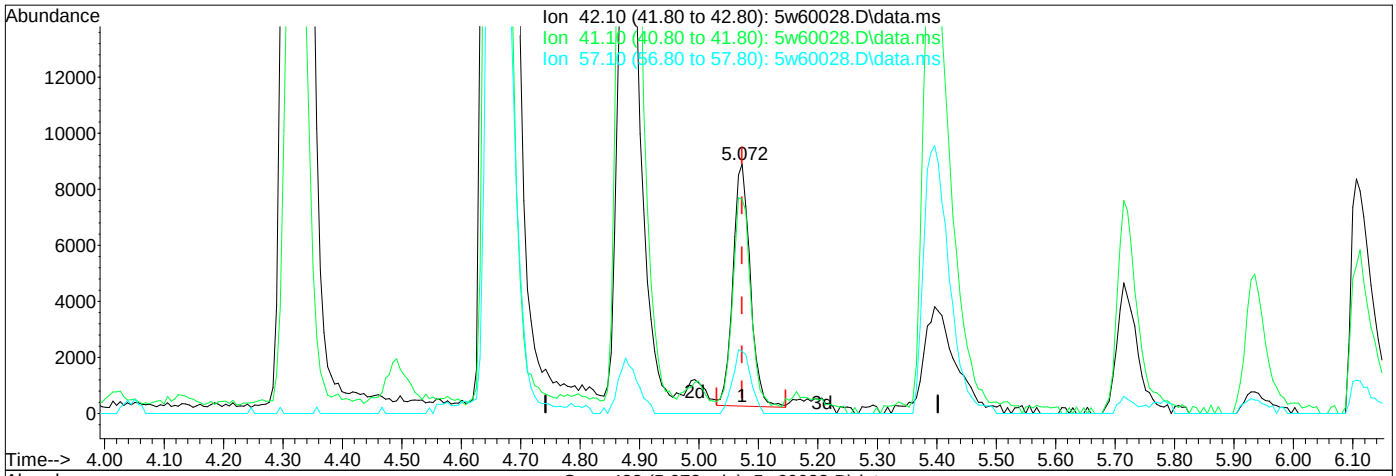
response 21427

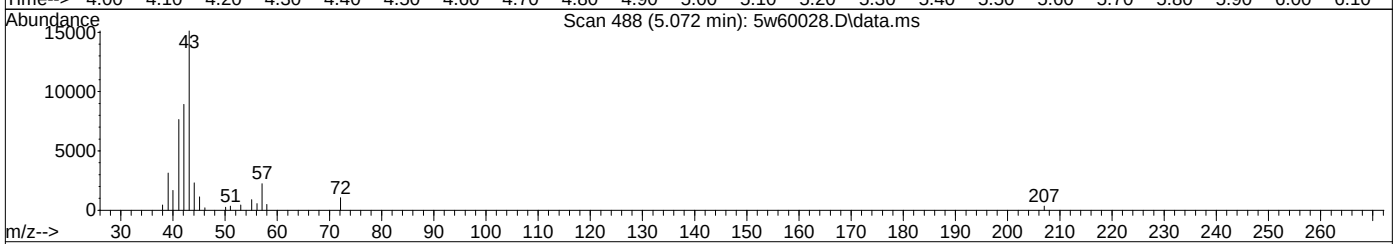
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	12.19
44.10	4.90	7.84
0.00	0.00	0.00

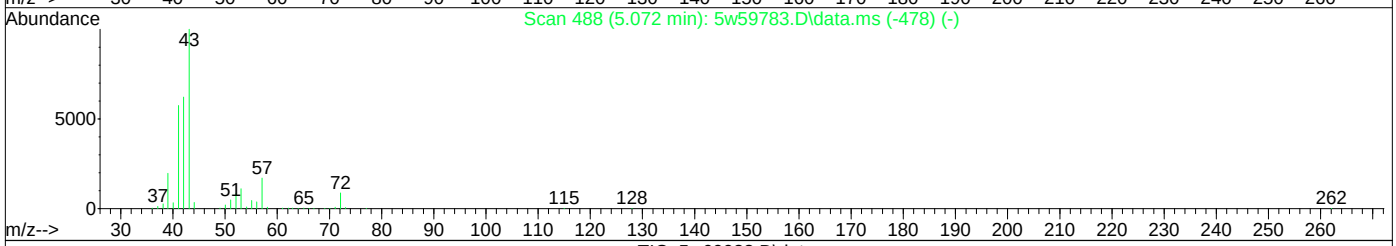
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60028.D
Acq On : 25 Nov 2025 7:20 am
Operator : benk
Sample : je23789-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 20:04:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60028.D\data.ms

(24) PENTANE

5.072min (+0.000) 0.35PPBV

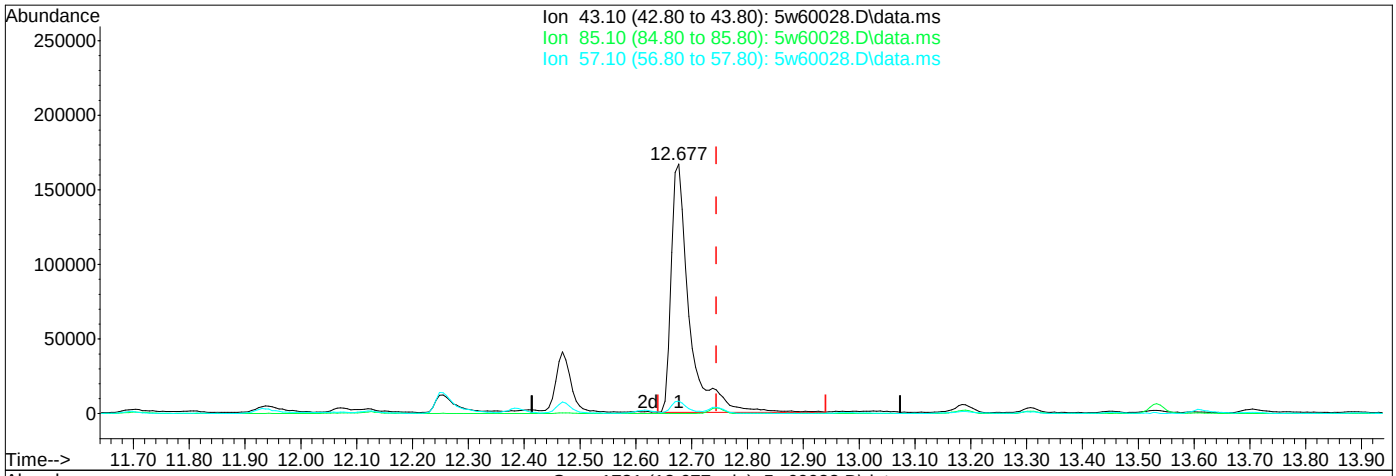
response 17528

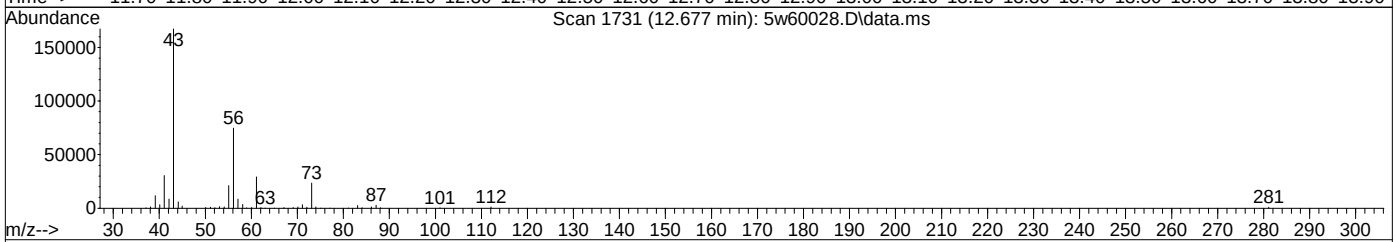
Ion	Exp%	Act%
42.10	100	100
41.10	92.30	90.80
57.10	27.70	27.62
0.00	0.00	0.00

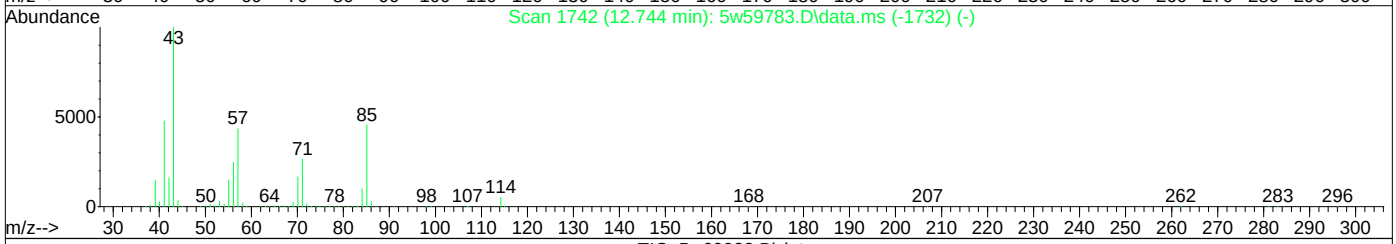
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-26-2025\V5W2301\
Data File : 5w60028.D
Acq On : 25 Nov 2025 7:20 am
Operator : benk
Sample : je23789-3 Inst : GCMS5W
Misc : MS99437,V5W2301,400,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 20:04:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration







TIC: 5w60028.D\data.ms

(76) OCTANE

12.677min (-0.067) 3.65PPBV

response 375917

Ion	Exp%	Act%
43.10	100	100
85.10	44.60	0.00#
57.10	43.70	4.37#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18784.D
Acq On : 25 Nov 2025 12:38 am
Operator : williamc
Sample : je23789-4 Inst : MS7W
Misc : MS99437,v7w655,500,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 26 03:41:59 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

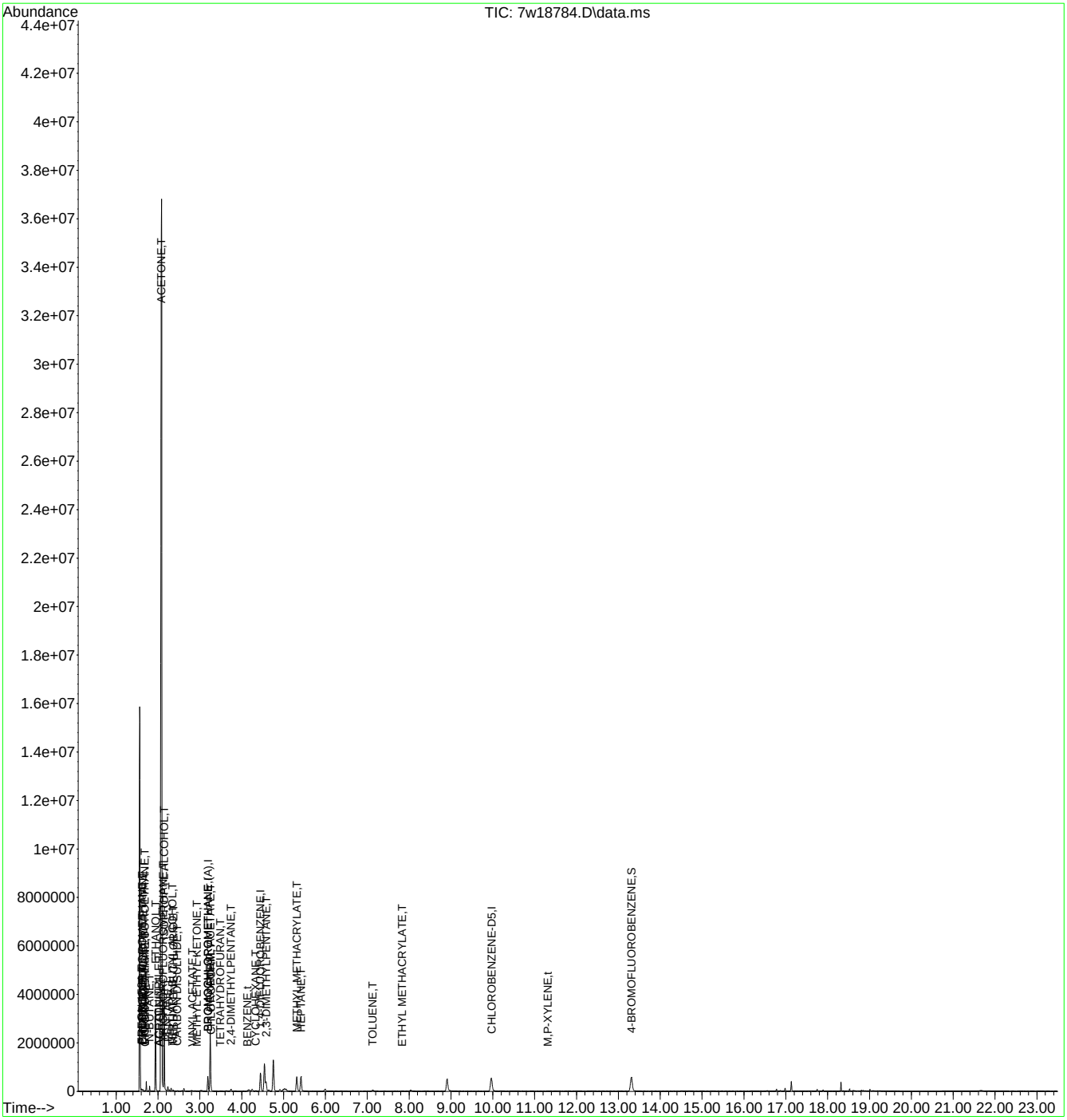
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	117290	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	575492	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	539805	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	117290	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	405630	9.33	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	15514	2.1135	PPBV		95
4) CHLORODIFLUOROMETHANE	1.618	67	4423	1.3879	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	16684	0.5940	PPBV	#	93
7) PROPYLENE	1.631	41	9840	1.0357	PPBV		81
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	7428	0.2972	PPBV	#	81
10) CHLOROMETHANE	1.688	52	2483	0.6164	PPBV		100
13) N-BUTANE	1.798	43	81350	4.2670	PPBV		95
17) ACETONITRILE	2.010	41	2622	0.1968	PPBV	#	91
18) ACROLEIN	2.036	56	5521	0.8724	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.123	101	17315	0.5676	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	2732429	105.6925	PPBV	#	89
23) ACETONE	2.074	58	15969119	2259.2441	PPBV	#	16
24) PENTANE	2.235	42	39189	2.7990	PPBV		96
27) CARBON DISULFIDE	2.460	76	4153	0.1259	PPBV	#	1
28) ETHANOL	1.939	45	2061600	299.5382	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	4056	0.3558	PPBV		95
35) TERTIARY BUTYL ALCOHOL	2.341	59	9086	0.2813	PPBV	#	1
37) TETRAHYDROFURAN	3.483	72	1849	0.3132	PPBV	#	34
38) HEXANE	3.238	57	7496	0.3058	PPBV	#	1
39) VINYL ACETATE	2.817	86	699	0.1998	PPBV	#	1
41) METHYL ETHYL KETONE	2.926	72	2652	0.3964	PPBV	#	1
44) ETHYL ACETATE	3.248	61	322972	68.7331	PPBV	#	1
46) CHLOROFORM	3.264	83	19467	0.7604	PPBV		84
47) 2,4-DIMETHYLPENTANE	3.740	57	31930	1.1637	PPBV		93
51) BENZENE	4.129	78	11977	0.3050	PPBV		86
53) CYCLOHEXANE	4.331	84	6229	0.3700	PPBV	#	71
54) 2,3-DIMETHYLPENTANE	4.582	71	54934	6.5426	PPBV	#	82
62) HEPTANE	5.418	43	312667	12.1866	PPBV		90
63) METHYL METHACRYLATE	5.315	69	225354	15.6310	PPBV		86
66) TOLUENE	7.126	91	43523	0.9525	PPBV		100
71) ETHYL METHACRYLATE	7.830	69	6268	0.2606	PPBV		92
80) M,P-XYLENE	11.305	91	9167	0.1873	PPBV		72

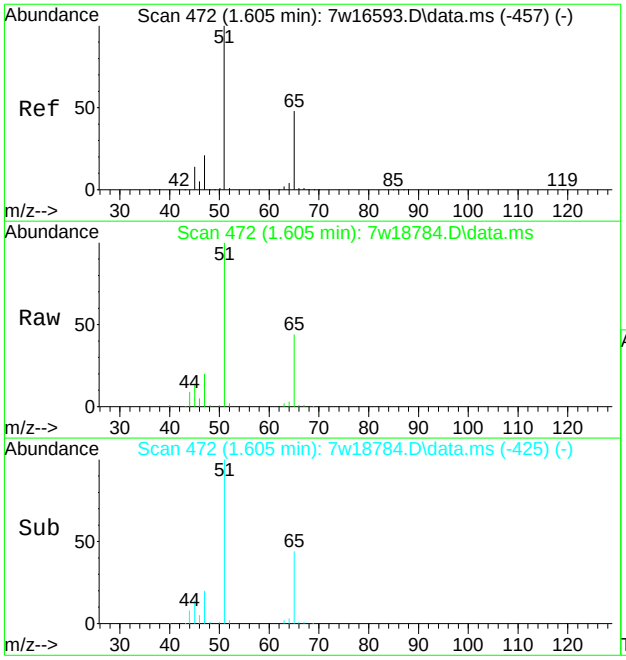
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18784.D
Acq On : 25 Nov 2025 12:38 am
Operator : williamc
Sample : je23789-4 Inst : MS7W
Misc : MS99437,v7w655,500,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 26 03:41:59 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

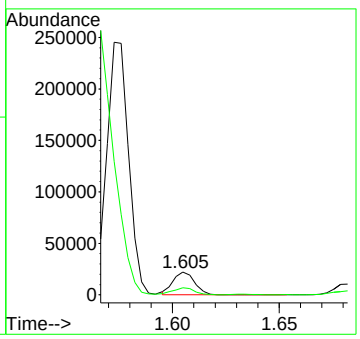


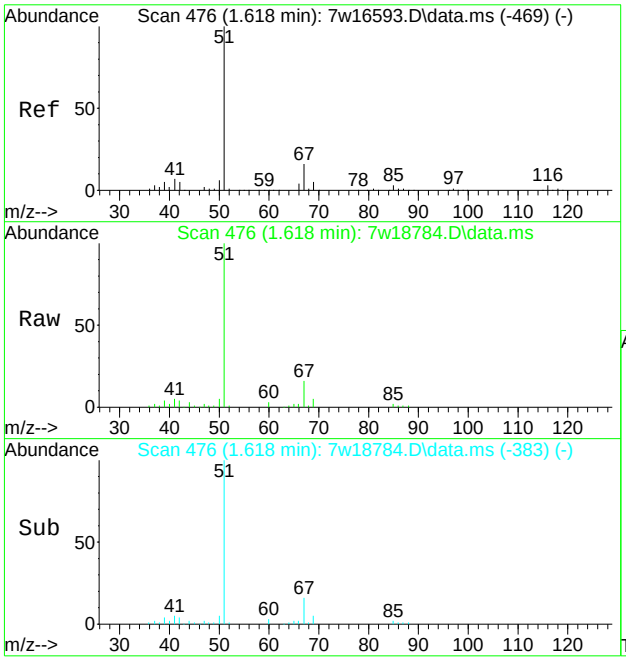


#3
FREON 152A
Concen: 2.1135 PPBV
RT: 1.605 min Scan# 472
Delta R.T. -0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 65 Resp: 15514

Ion	Ratio	Lower	Upper
65	100		
45	30.1	23.0	42.8

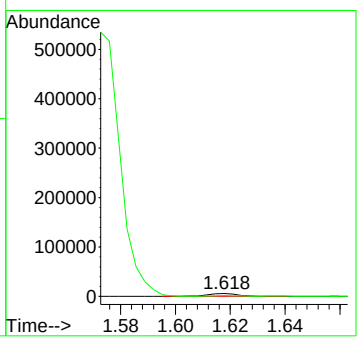


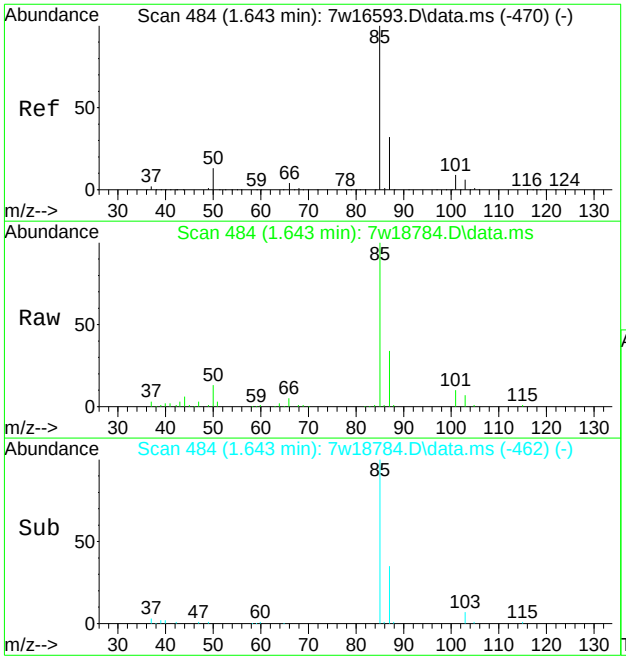


#4
CHLORODIFLUOROMETHANE
Concen: 1.3879 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 67 Resp: 4423

Ion	Ratio	Lower	Upper
67	100		
69	39.2	25.3	47.1

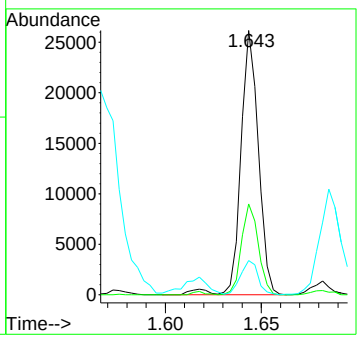


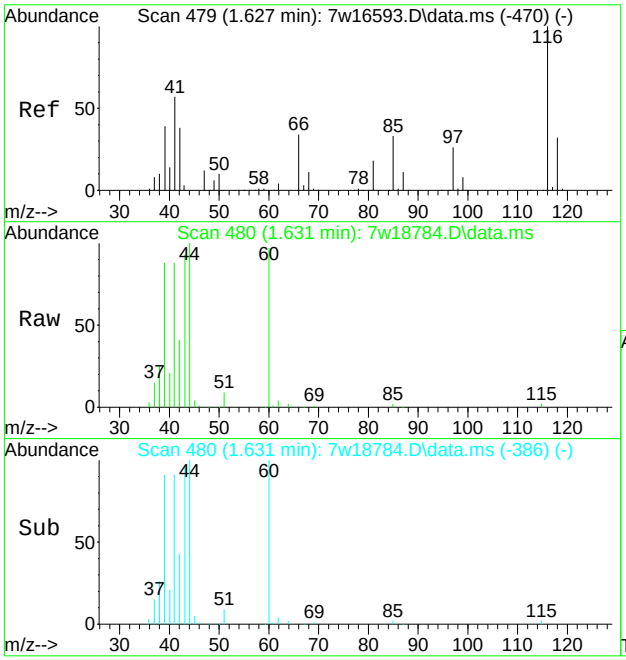


#6
DICHLORODIFLUOROMETHANE
Concen: 0.5940 PPBV
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 85 Resp: 16684

Ion	Ratio	Lower	Upper
85	100		
87	33.8	23.0	42.6
50	12.4	13.5	25.1#

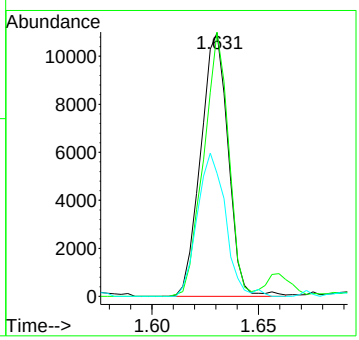


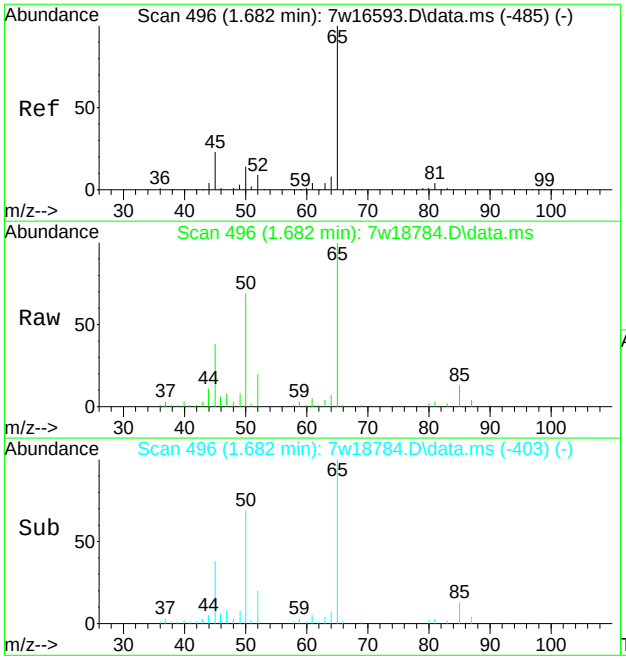


#7
PROPYLENE
Concen: 1.0357 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 41 Resp: 9840

Ion	Ratio	Lower	Upper
41	100		
39	91.9	50.5	93.7
42	55.6	47.0	87.4

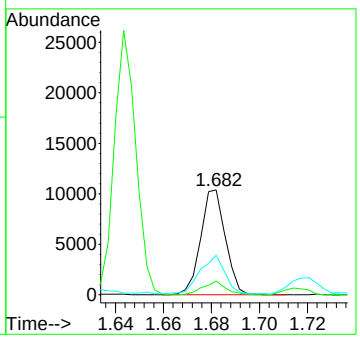


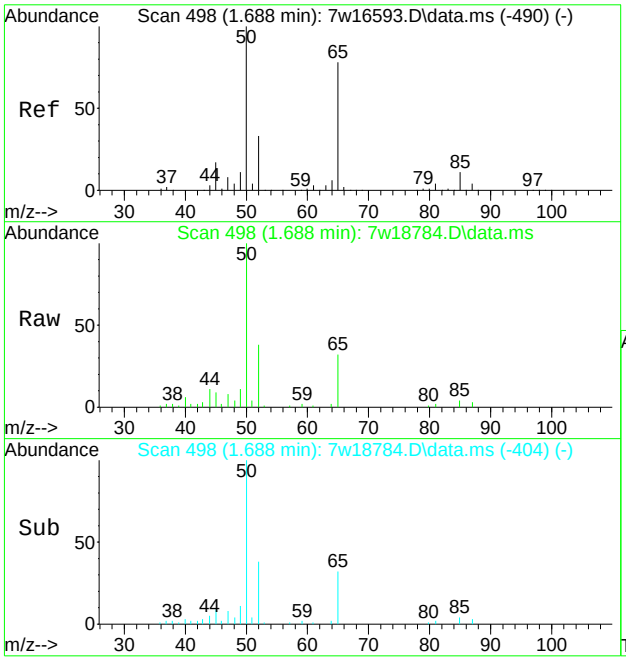


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.2972 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 65 Resp: 7428

Ion	Ratio	Lower	Upper
65	100		
85	12.0	9.4	17.4
45	37.8	16.9	31.3#

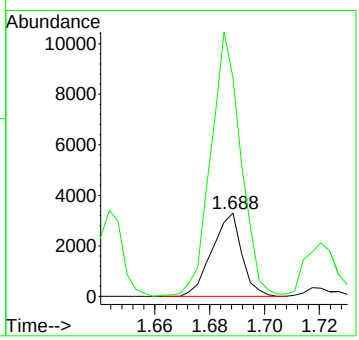


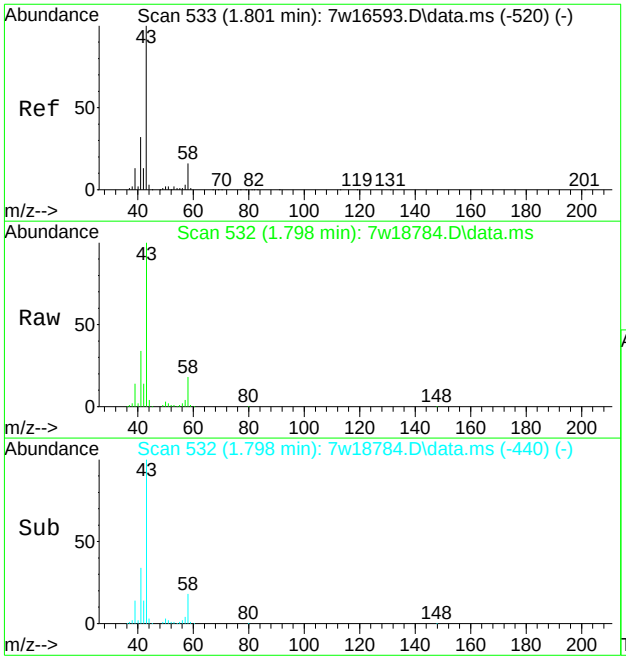


#10
CHLOROMETHANE
Concen: 0.6164 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 52 Resp: 2483

Ion	Ratio	Lower	Upper
52	100		
50	322.1	225.6	419.0

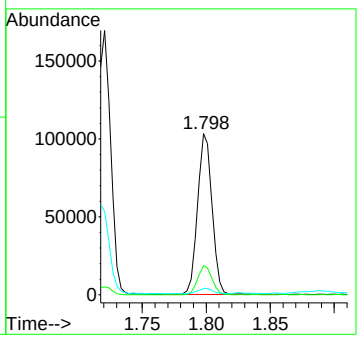


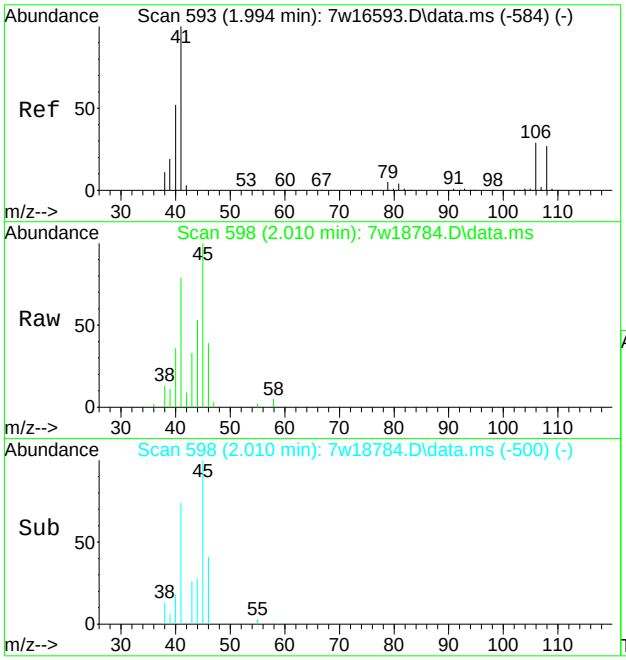


#13
N-BUTANE
Concen: 4.2670 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 43 Resp: 81350

Ion	Ratio	Lower	Upper
43	100		
58	18.1	11.0	20.4
44	3.5	2.6	4.8

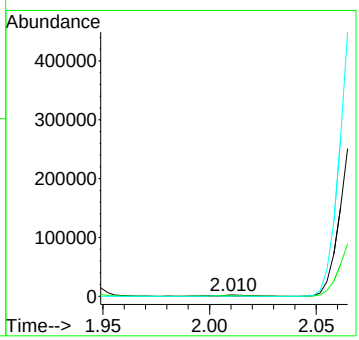


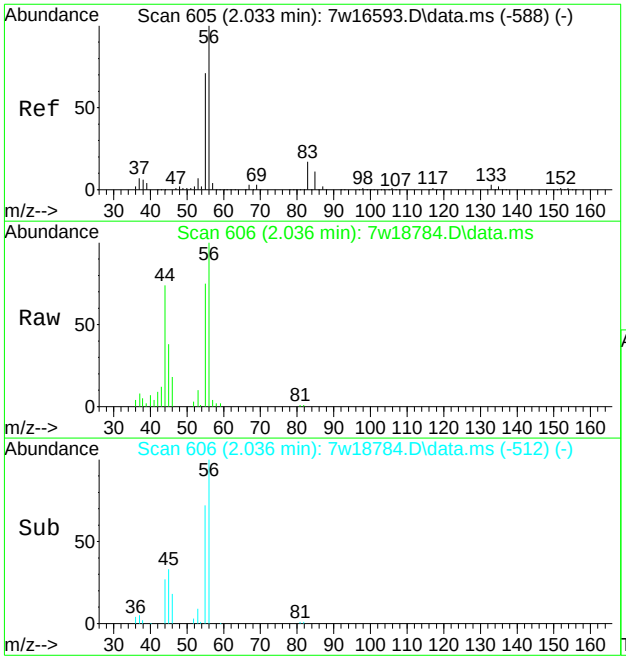


#17
ACETONITRILE
Concen: 0.1968 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.016 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 41 Resp: 2622

Ion	Ratio	Lower	Upper
41	100		
40	51.1	36.7	68.1
39	31.1	13.1	24.3#

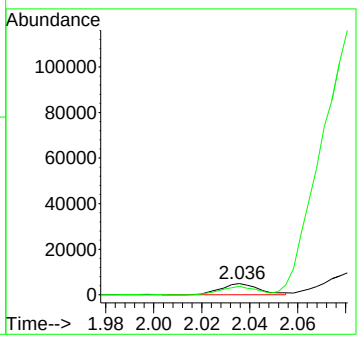


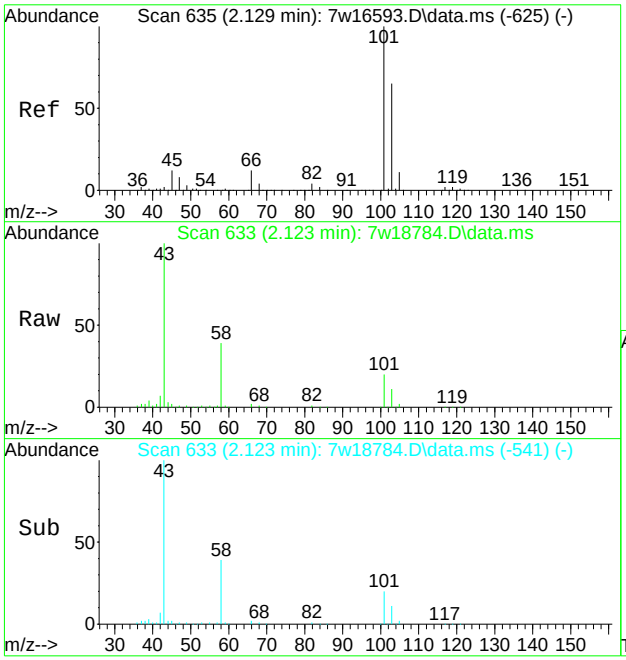


#18
ACROLEIN
Concen: 0.8724 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.004 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 56 Resp: 5521

Ion	Ratio	Lower	Upper
56	100		
55	67.8	48.9	90.7

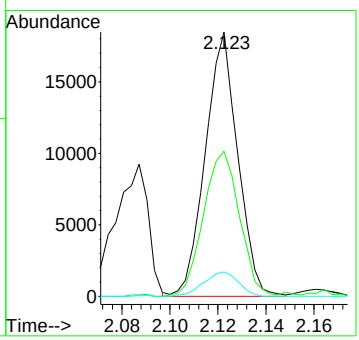


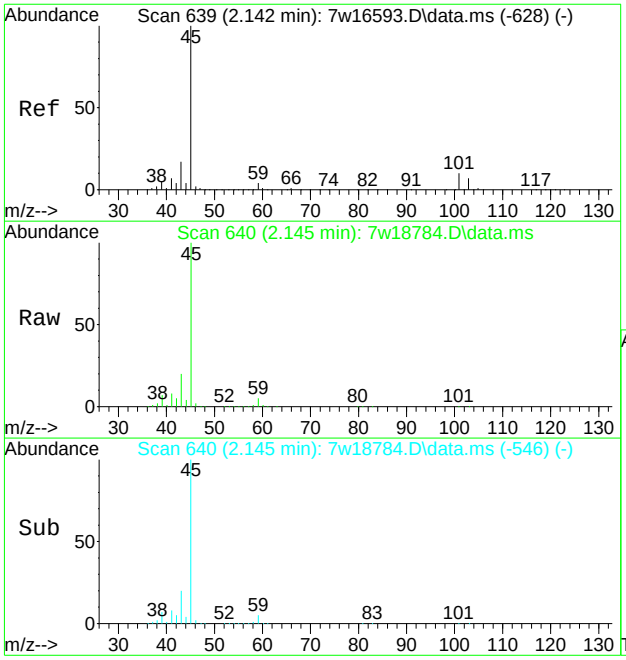


#21
TRICHLOROFLUOROMETHANE
Concen: 0.5676 PPBV
RT: 2.123 min Scan# 633
Delta R.T. -0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion:101 Resp: 17315

Ion	Ratio	Lower	Upper
101	100		
103	63.4	45.2	84.0
105	10.0	7.3	13.5

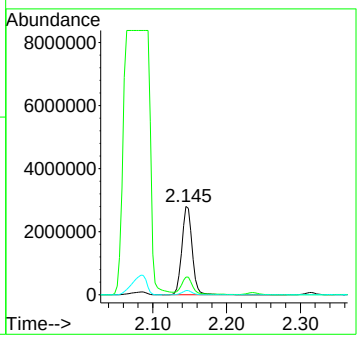


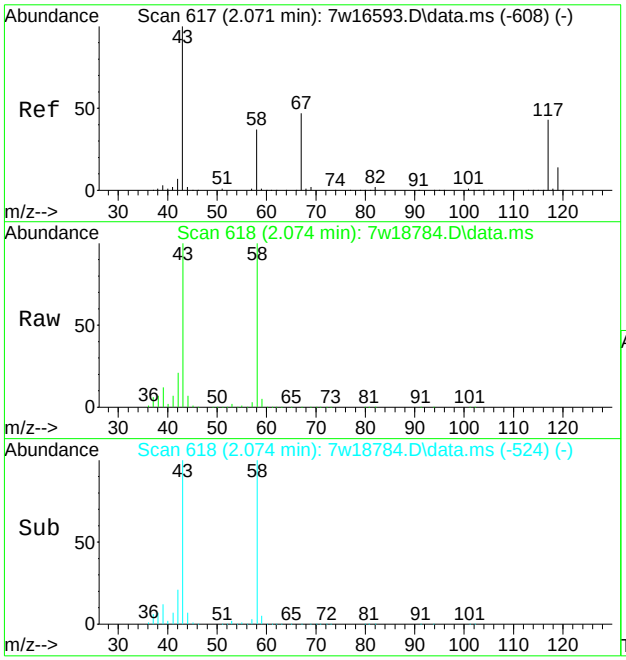


#22
ISOPROPYL ALCOHOL
Concen: 105.6925 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 45 Resp: 2732429

Ion	Ratio	Lower	Upper
45	100		
43	24.0	12.5	23.3#
59	4.9	3.1	5.7

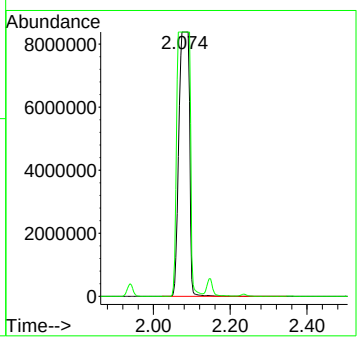


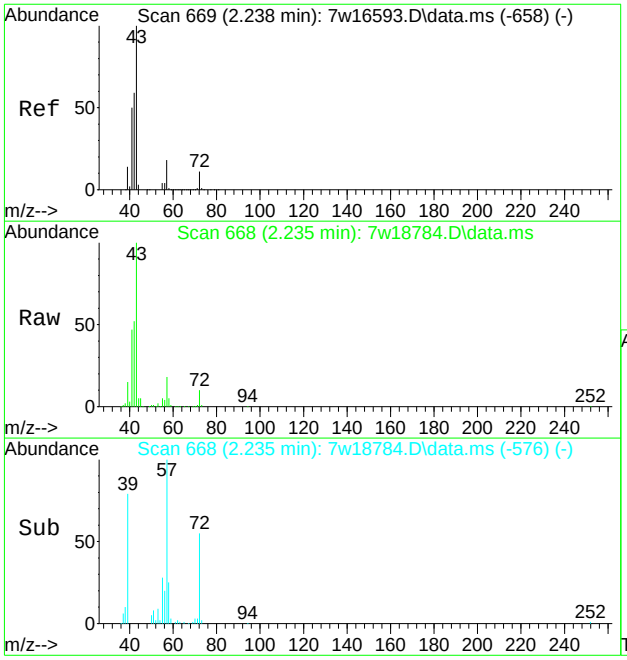


#23
ACETONE
Concen: 2259.2441 PPBV
RT: 2.074 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 58 Resp:15969119

Ion	Ratio	Lower	Upper
58	100		
43	125.4	198.6	368.8#

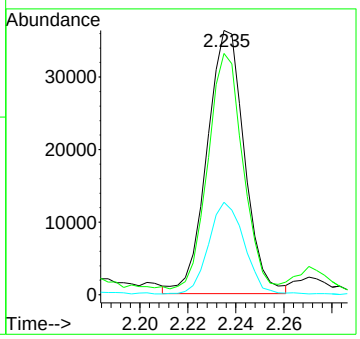


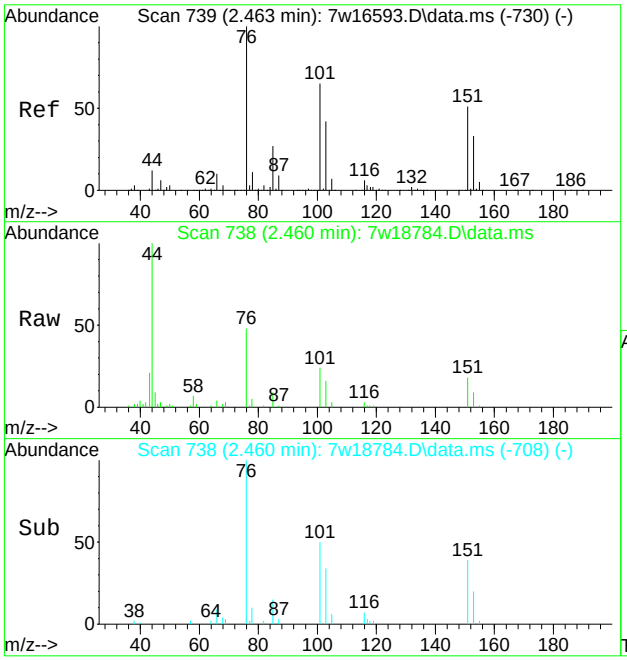


#24
PENTANE
Concen: 2.7990 PPBV
RT: 2.235 min Scan# 668
Delta R.T. -0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 42 Resp: 39189

Ion	Ratio	Lower	Upper
42	100		
41	87.6	59.8	111.0
57	34.3	21.1	39.1

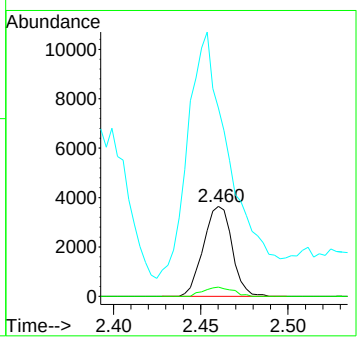


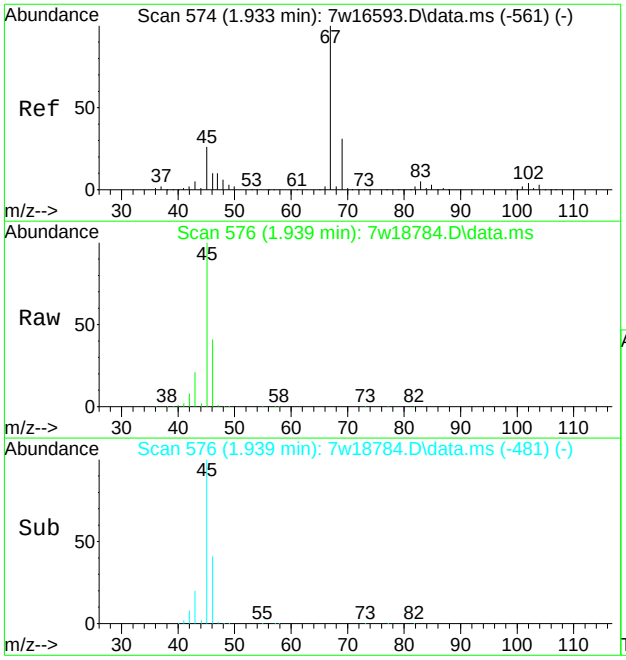


#27
CARBON DISULFIDE
Concen: 0.1259 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 76 Resp: 4153

Ion	Ratio	Lower	Upper
76	100		
78	10.5	7.7	14.3
44	386.8	10.2	19.0#

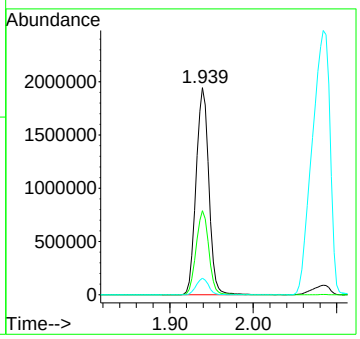


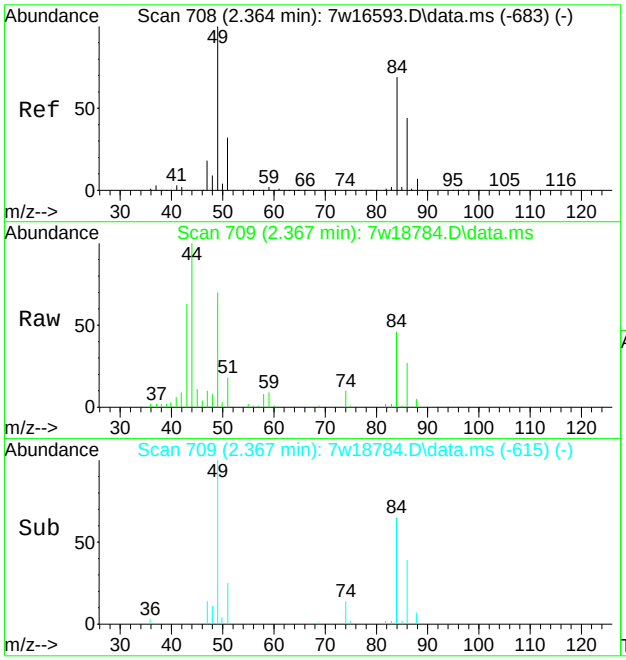


#28
ETHANOL
Concen: 299.5382 PPBV
RT: 1.939 min Scan# 576
Delta R.T. 0.006 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 45 Resp: 2061600

Ion	Ratio	Lower	Upper
45	100		
46	40.4	29.0	53.9
42	7.9	5.7	10.5

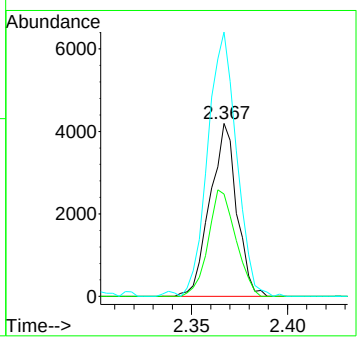


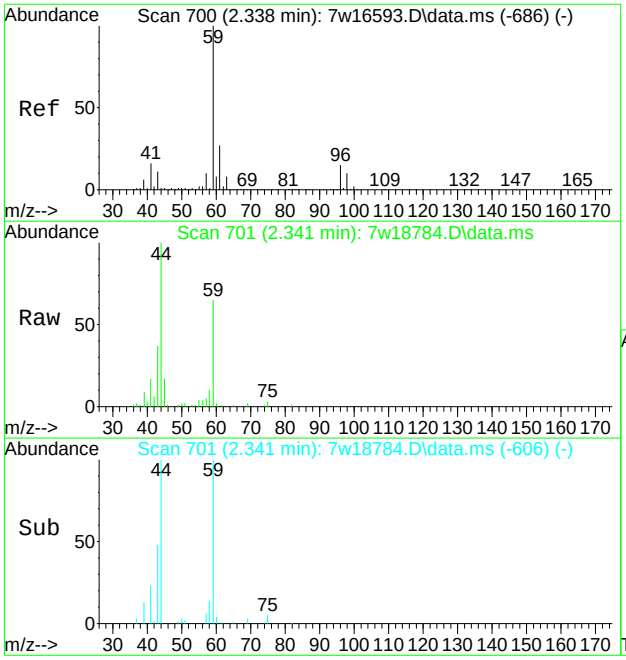


#31
METHYLENE CHLORIDE
Concen: 0.3558 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 84 Resp: 4056

Ion	Ratio	Lower	Upper
84	100		
86	63.5	44.3	82.3
49	166.0	109.5	203.3

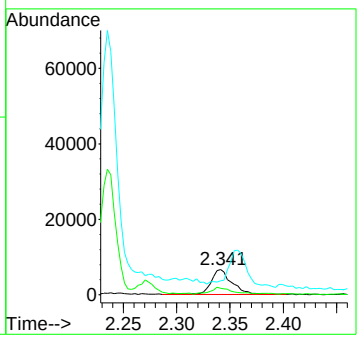


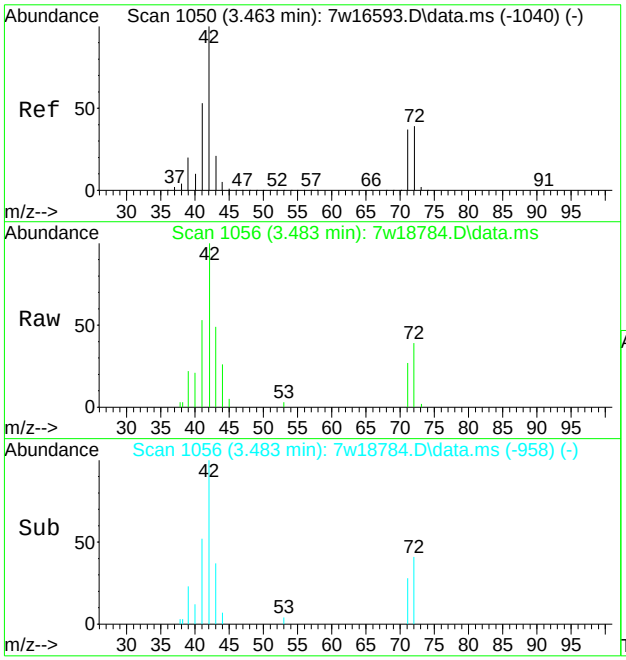


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.2813 PPBV
RT: 2.341 min Scan# 701
Delta R.T. 0.006 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 59 Resp: 9086

Ion	Ratio	Lower	Upper
59	100		
41	22.9	12.9	23.9
43	167.6	8.0	14.8#

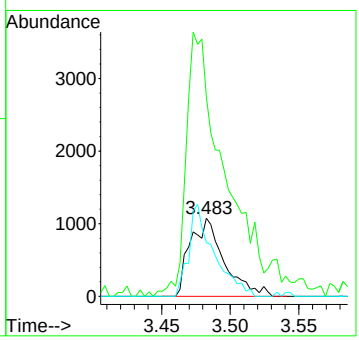


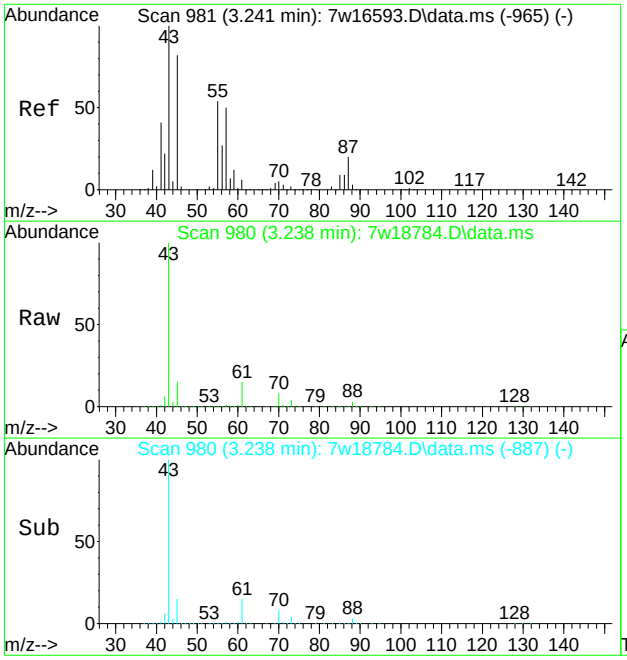


#37
TETRAHYDROFURAN
Concen: 0.3132 PPBV
RT: 3.483 min Scan# 1056
Delta R.T. 0.017 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 72 Resp: 1849

Ion	Ratio	Lower	Upper
72	100		
42	414.4	180.3	334.8#
71	87.6	65.8	122.2

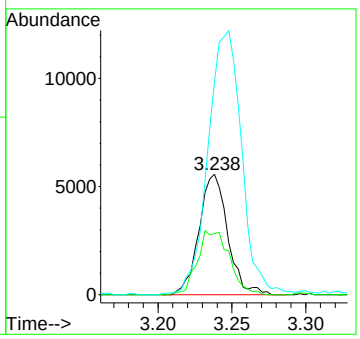


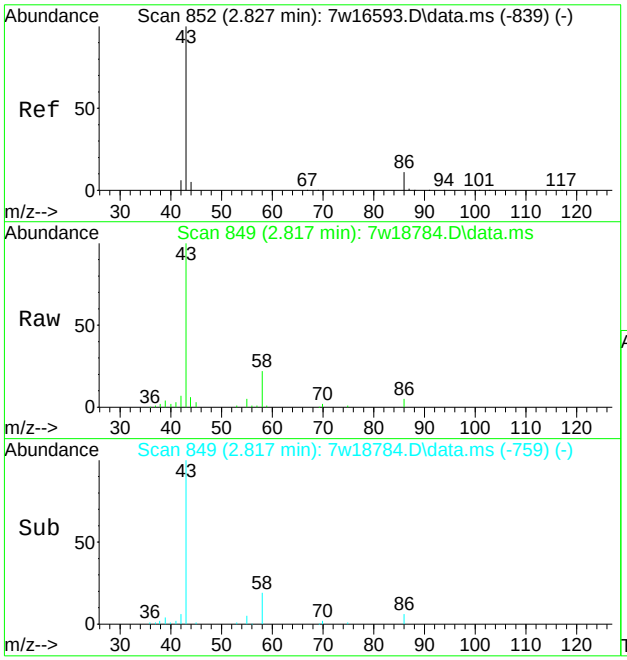


#38
HEXANE
Concen: 0.3058 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 57 Resp: 7496

Ion	Ratio	Lower	Upper
57	100		
56	59.5	38.0	70.6
41	257.6	65.9	122.5#

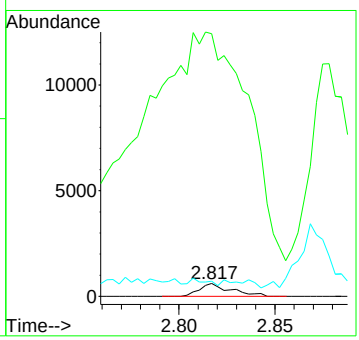


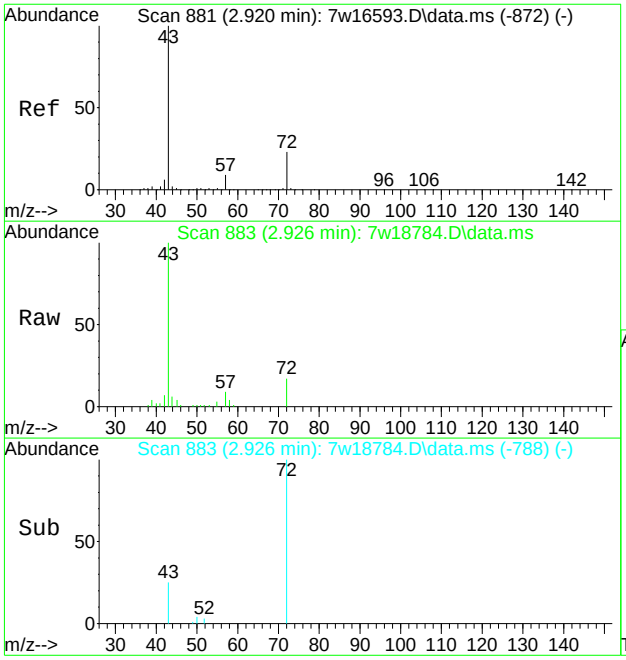


#39
VINYL ACETATE
Concen: 0.1998 PPBV
RT: 2.817 min Scan# 849
Delta R.T. -0.010 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 86 Resp: 699

Ion	Ratio	Lower	Upper
86	100		
43	7087.3	758.7	1408.9#
44	69.0	39.5	73.3

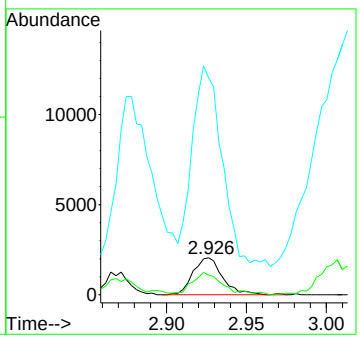


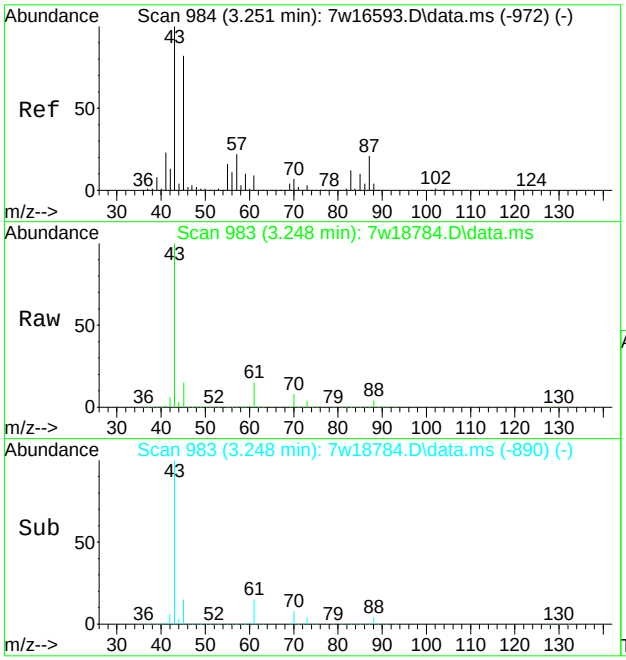


#41
METHYL ETHYL KETONE
Concen: 0.3964 PPBV
RT: 2.926 min Scan# 883
Delta R.T. 0.006 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 72 Resp: 2652

Ion	Ratio	Lower	Upper
72	100		
57	62.2	26.9	49.9#
43	712.7	309.4	574.6#

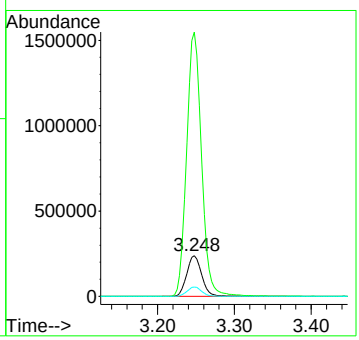


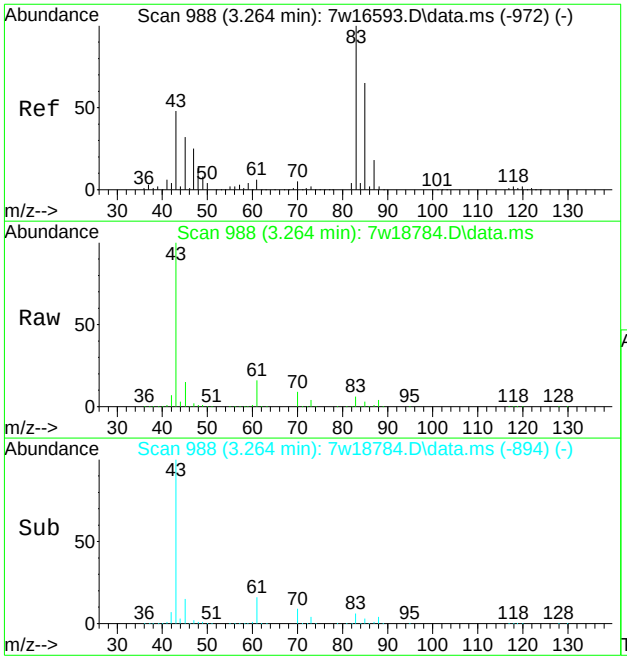


#44
ETHYL ACETATE
Concen: 68.7331 PPBV
RT: 3.248 min Scan# 983
Delta R.T. -0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 61 Resp: 322972

Ion	Ratio	Lower	Upper
61	100		
43	647.8	955.4	1774.4#
88	22.9	27.6	51.2#

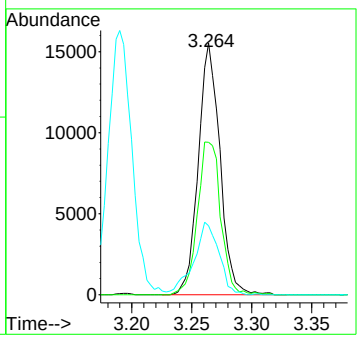


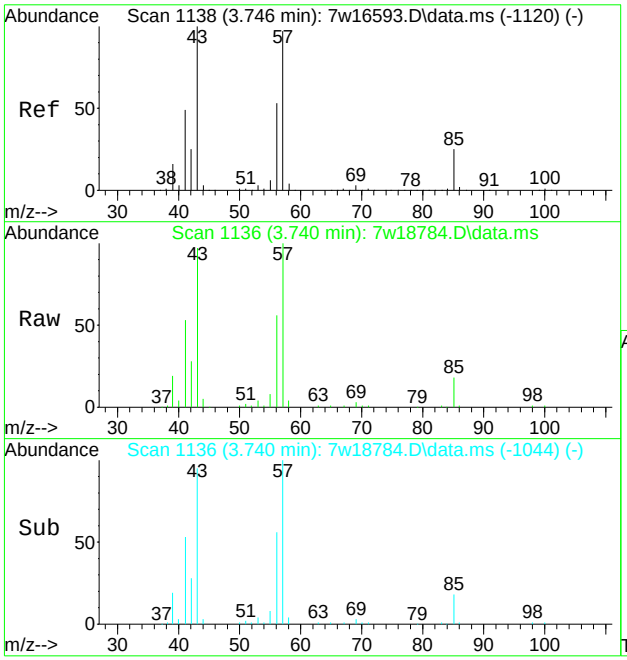


#46
CHLOROFORM
Concen: 0.7604 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 83 Resp: 19467

Ion	Ratio	Lower	Upper
83	100		
85	65.3	56.0	104.0
47	33.8	19.0	35.4

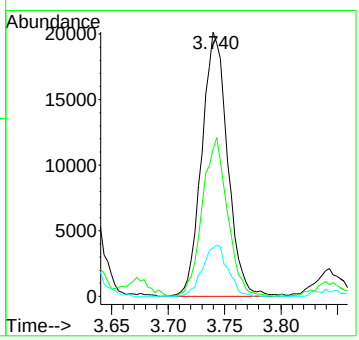


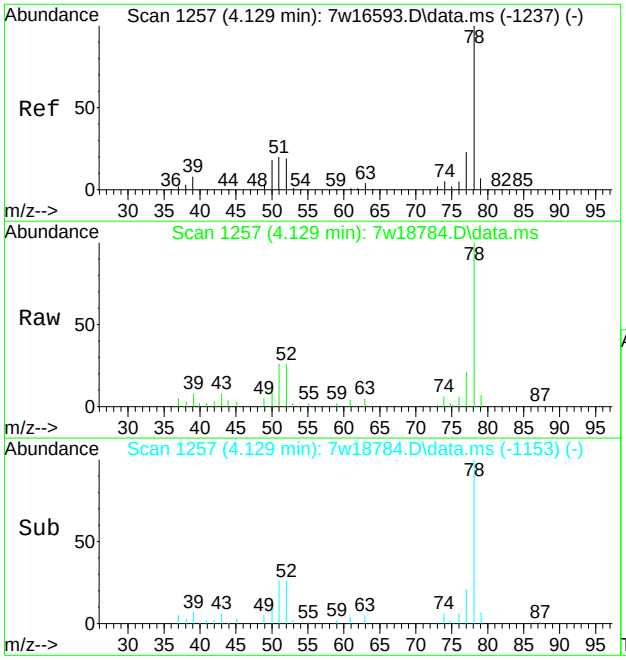


#47
2,4-DIMETHYLPENTANE
Concen: 1.1637 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 57 Resp: 31930

Ion	Ratio	Lower	Upper
57	100		
56	58.6	38.4	71.2
85	19.0	17.5	32.5

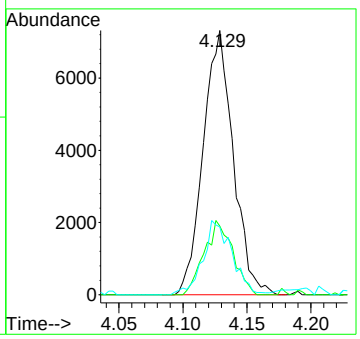


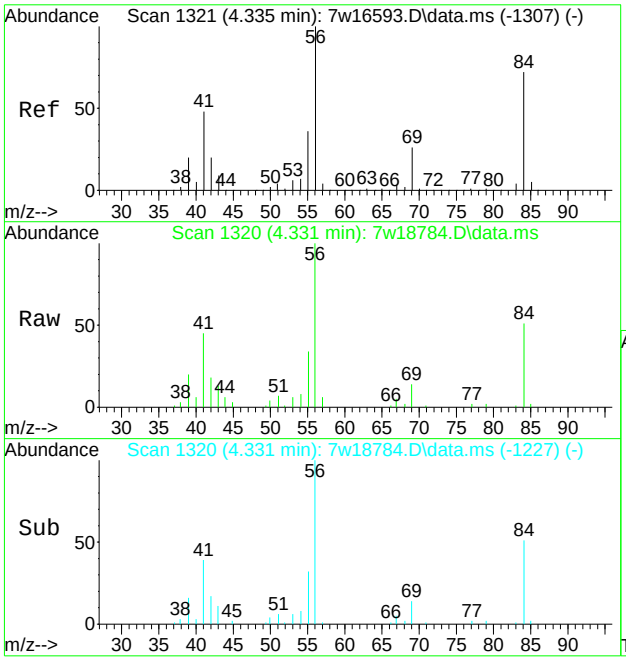


#51
BENZENE
Concen: 0.3050 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 78 Resp: 11977

Ion	Ratio	Lower	Upper
78	100		
52	26.8	0.0	49.9
51	27.1	0.0	50.6

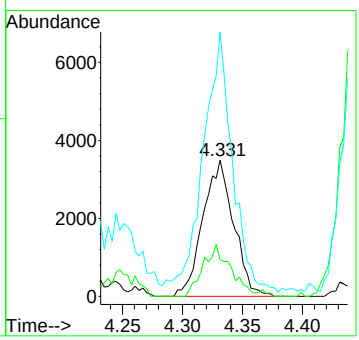


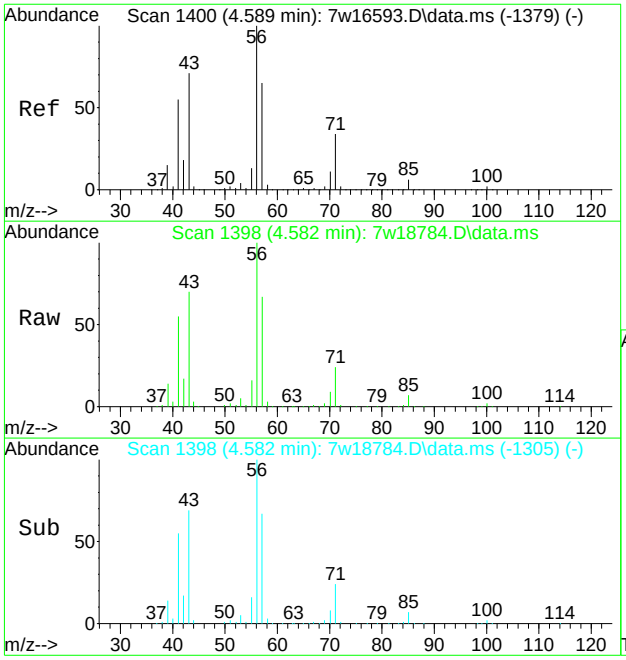


#53
CYCLOHEXANE
Concen: 0.3700 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 84 Resp: 6229

Ion	Ratio	Lower	Upper
84	100		
69	35.2	24.6	45.6
56	181.8	96.4	179.0#

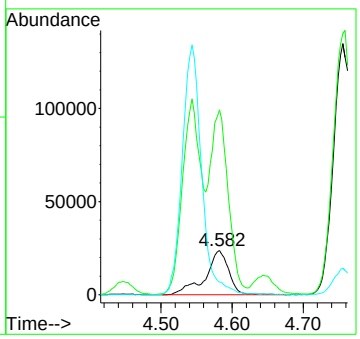


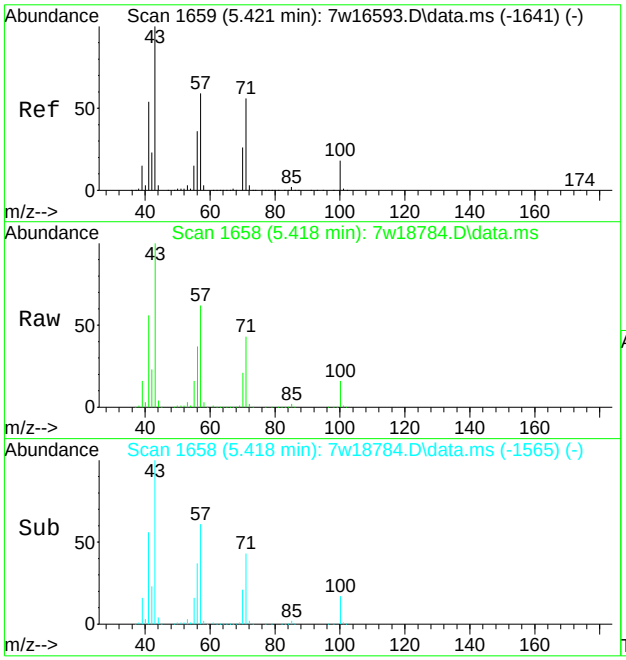


#54
2,3-DIMETHYLPENTANE
Concen: 6.5426 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 71 Resp: 54934

Ion	Ratio	Lower	Upper
71	100		
56	337.7	213.2	396.0
85	0.0	12.2	22.6#

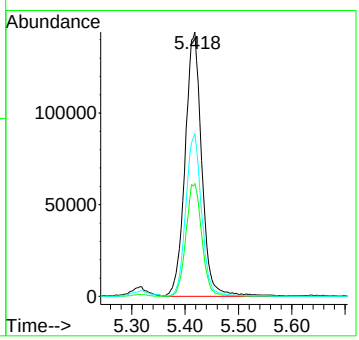


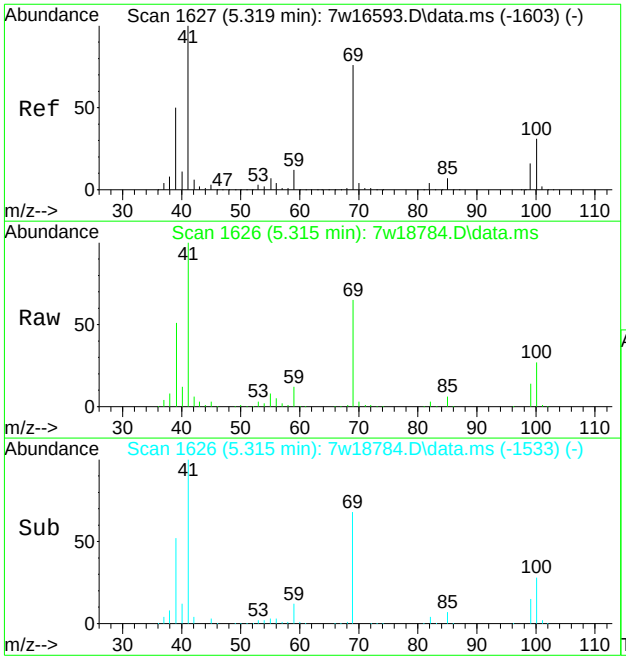


#62
HEPTANE
Concen: 12.1866 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 43 Resp: 312667

Ion	Ratio	Lower	Upper
43	100		
71	40.9	38.9	72.2
57	58.5	40.5	75.3

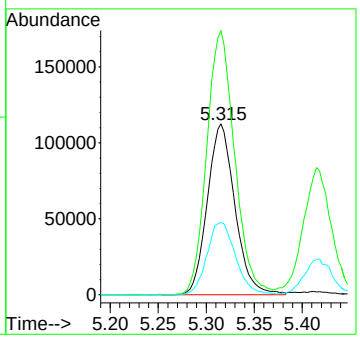


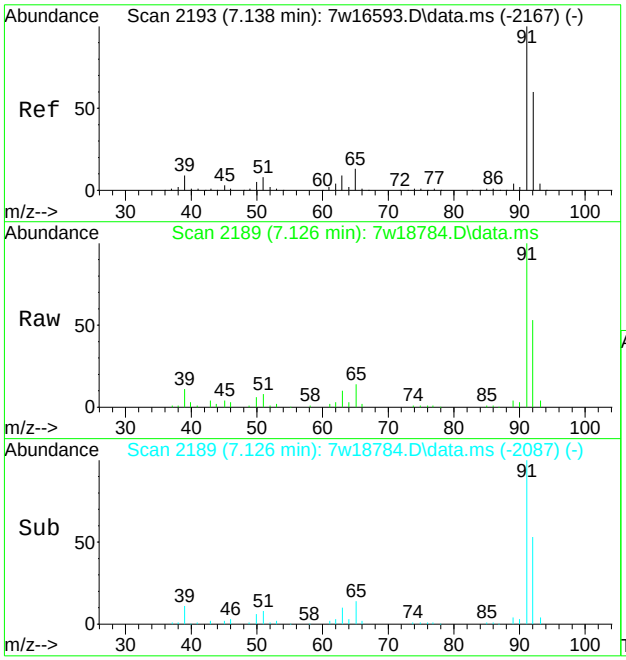


#63
METHYL METHACRYLATE
Concen: 15.6310 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 69 Resp: 225354

Ion	Ratio	Lower	Upper
69	100		
41	156.1	95.5	177.4
100	44.1	28.1	52.1

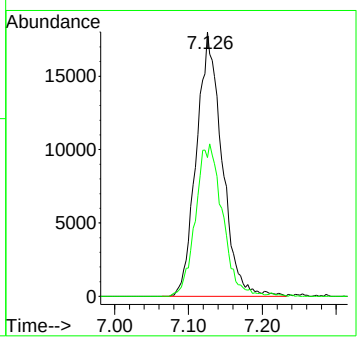


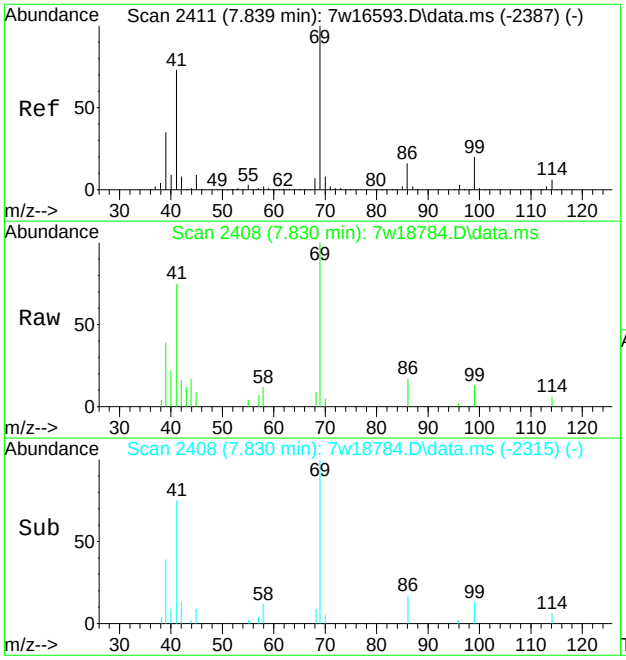


#66
TOLUENE
Concen: 0.9525 PPBV
RT: 7.126 min Scan# 2189
Delta R.T. -0.003 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 91 Resp: 43523

Ion	Ratio	Lower	Upper
91	100		
92	60.7	30.3	90.3

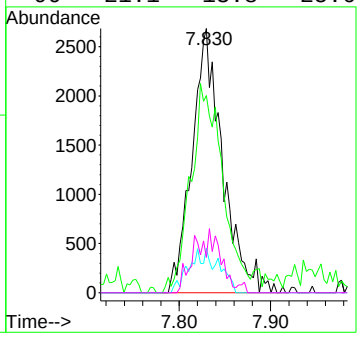


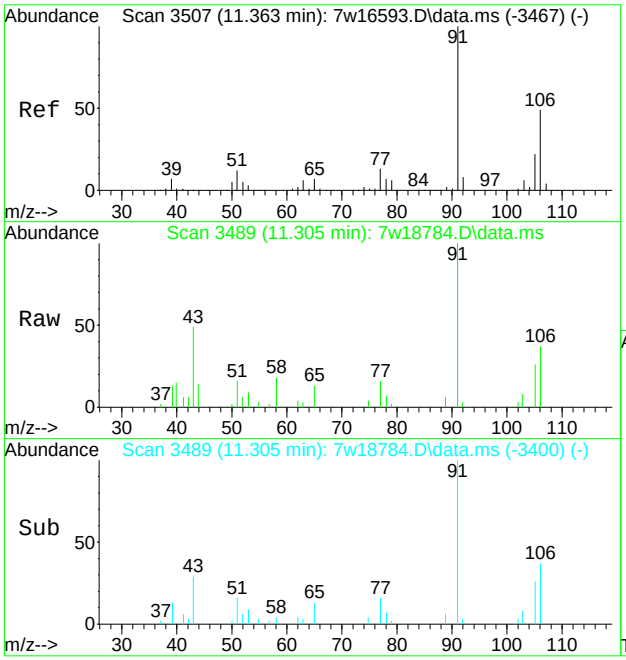


#71
ETHYL METHACRYLATE
Concen: 0.2606 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. -0.000 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 69 Resp: 6268

Ion	Ratio	Lower	Upper
69	100		
41	86.1	53.6	99.6
86	15.9	11.3	20.9
99	21.1	13.8	25.6

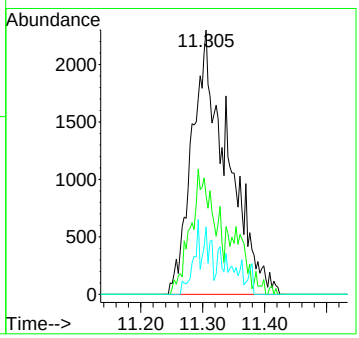




#80
M,P-XYLENE
Concen: 0.1873 PPBV
RT: 11.305 min Scan# 3489
Delta R.T. -0.045 min
Lab File: 7w18784.D
Acq: 25 Nov 2025 12:38 am

Tgt Ion: 91 Resp: 9167

Ion	Ratio	Lower	Upper
91	100		
106	45.8	0.0	56.1
105	10.5	0.0	42.1



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18806.D
Acq On : 25 Nov 2025 4:48 pm
Operator : williamc
Sample : je23789-4(a2165,m332) Inst : MS7W
Misc : MS99437,v7w656,400,,,,155
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 01:37:35 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

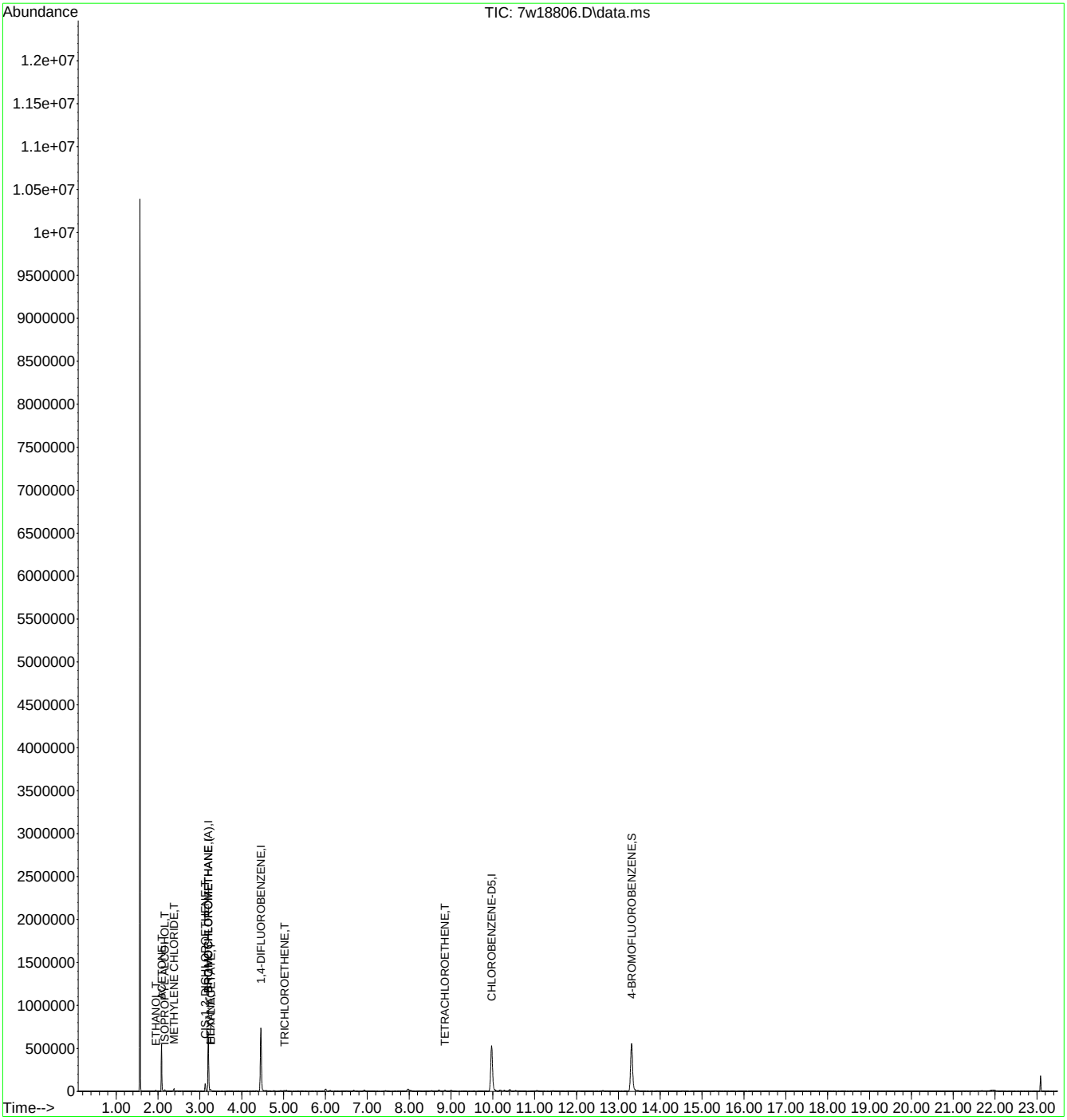
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.203	128	119828	10.00	PPBV	0.01
52) 1,4-DIFLUOROBENZENE	4.457	114	573748	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.971	117	533917	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.203	128	119729	10.00	PPBV	0.01
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	393786	9.16	PPBV	0.00
Target Compounds						Qvalue
22) ISOPROPYL ALCOHOL	2.161	45	11844	0.4484	PPBV #	62
23) ACETONE	2.084	58	128117	17.7416	PPBV	87
28) ETHANOL	1.946	45	8105	1.1527	PPBV	91
31) METHYLENE CHLORIDE	2.380	84	7267	0.6240	PPBV	93
38) HEXANE	3.251	57	7399	0.2954	PPBV #	76
42) CIS-1,2-DICHLOROETHENE	3.129	96	24112	1.7783	PPBV	90
44) ETHYL ACETATE	3.264	61	1316	0.2741	PPBV #	17
55) TRICHLOROETHENE	5.023	95	1160	0.0648	PPBV	94
72) TETRACHLOROETHENE	8.849	164	3643	0.2192	PPBV	89

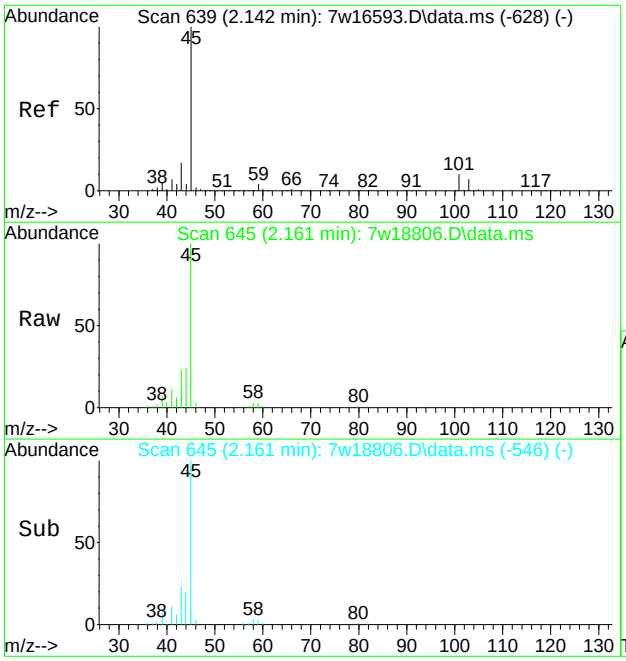
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18806.D
Acq On : 25 Nov 2025 4:48 pm
Operator : williamc
Sample : je23789-4(a2165,m332) Inst : MS7W
Misc : MS99437,v7w656,400,,,,155
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 01:37:35 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

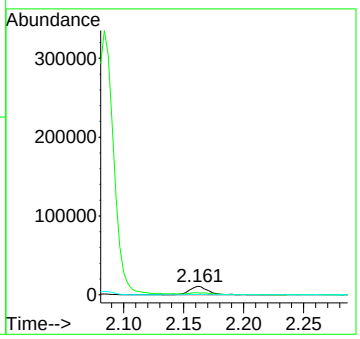


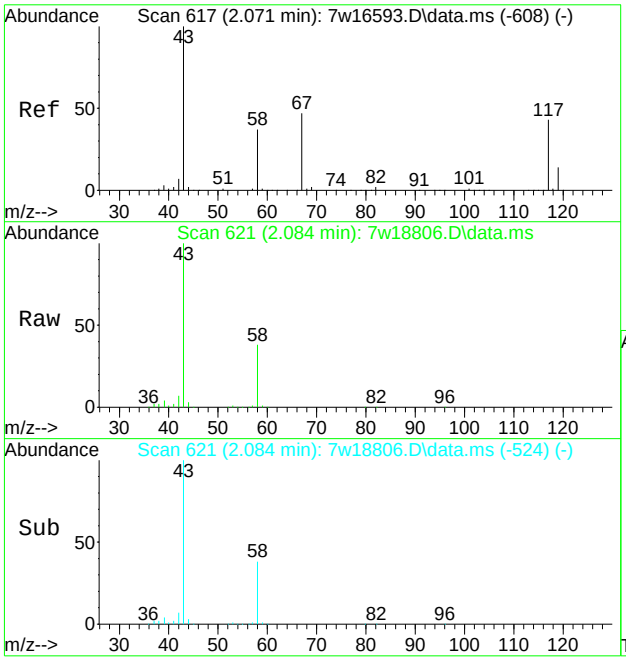


#22
ISOPROPYL ALCOHOL
Concen: 0.4484 PPBV
RT: 2.161 min Scan# 645
Delta R.T. 0.019 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion: 45 Resp: 11844

Ion	Ratio	Lower	Upper
45	100		
43	38.7	12.5	23.3#
59	5.3	3.1	5.7

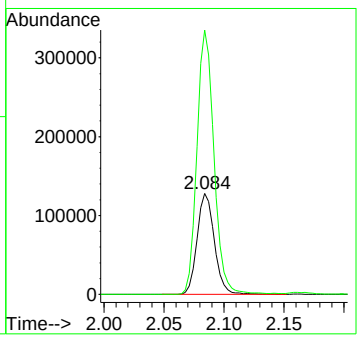


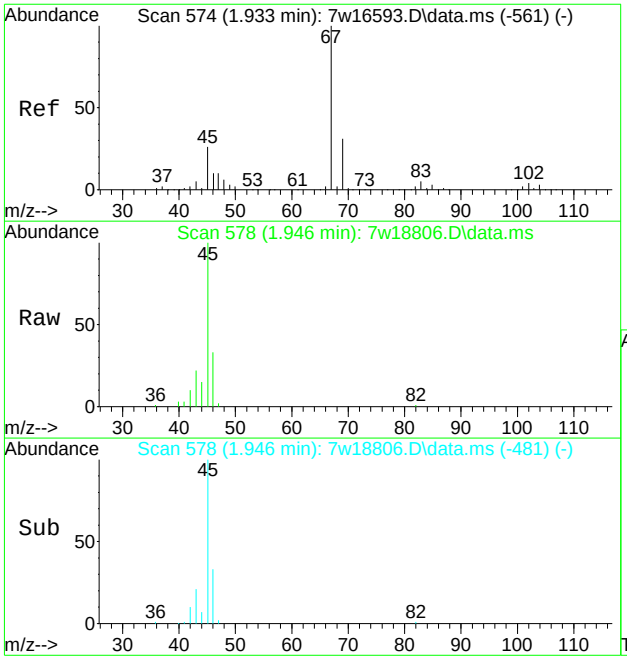


#23
ACETONE
Concen: 17.7416 PPBV
RT: 2.084 min Scan# 621
Delta R.T. 0.013 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion: 58 Resp: 128117

Ion	Ratio	Lower	Upper
58	100		
43	258.8	198.6	368.8

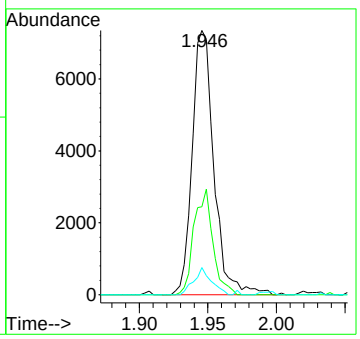


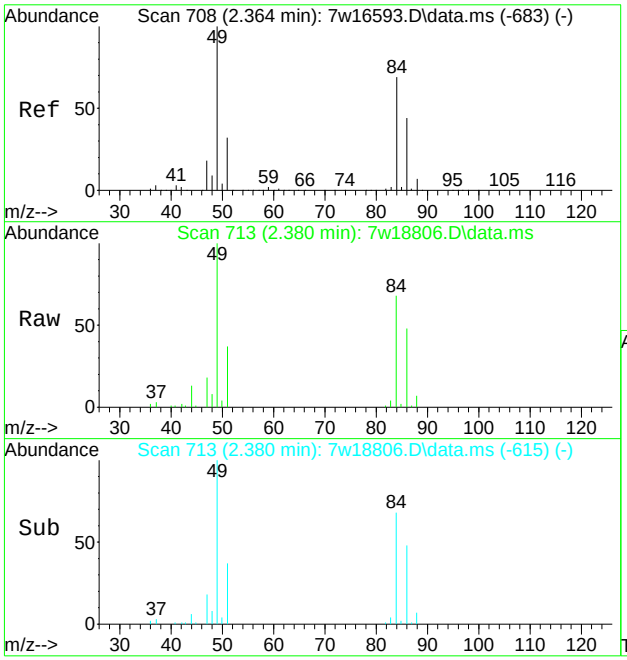


#28
ETHANOL
Concen: 1.1527 PPBV
RT: 1.946 min Scan# 578
Delta R.T. 0.013 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion: 45 Resp: 8105

Ion	Ratio	Lower	Upper
45	100		
46	34.6	29.0	53.9
42	8.6	5.7	10.5

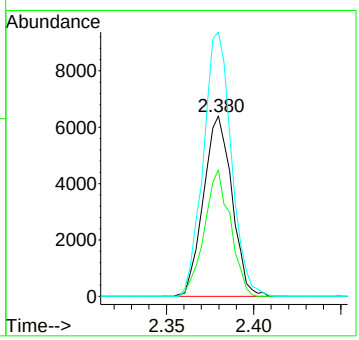


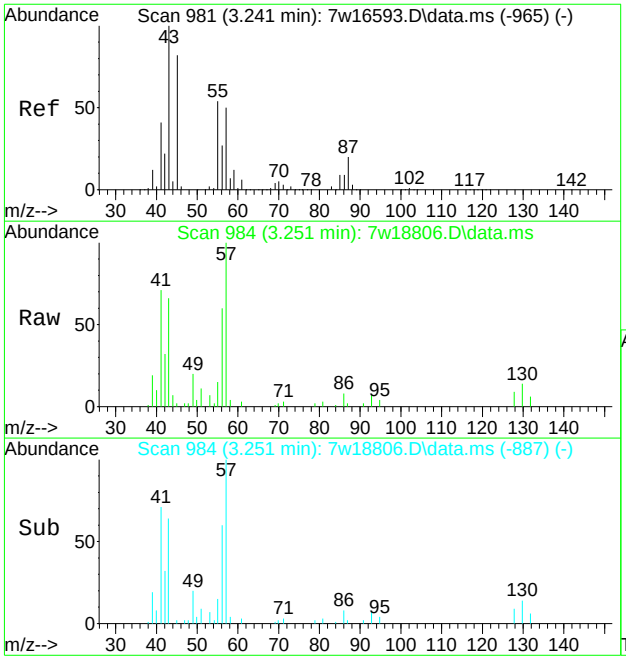


#31
METHYLENE CHLORIDE
Concen: 0.6240 PPBV
RT: 2.380 min Scan# 713
Delta R.T. 0.016 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion: 84 Resp: 7267

Ion	Ratio	Lower	Upper
84	100		
86	64.3	44.3	82.3
49	144.0	109.5	203.3

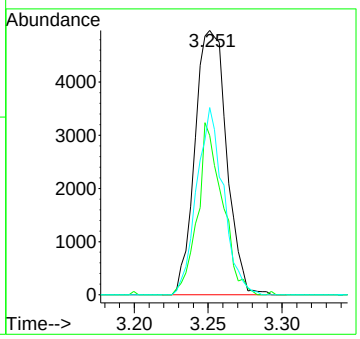


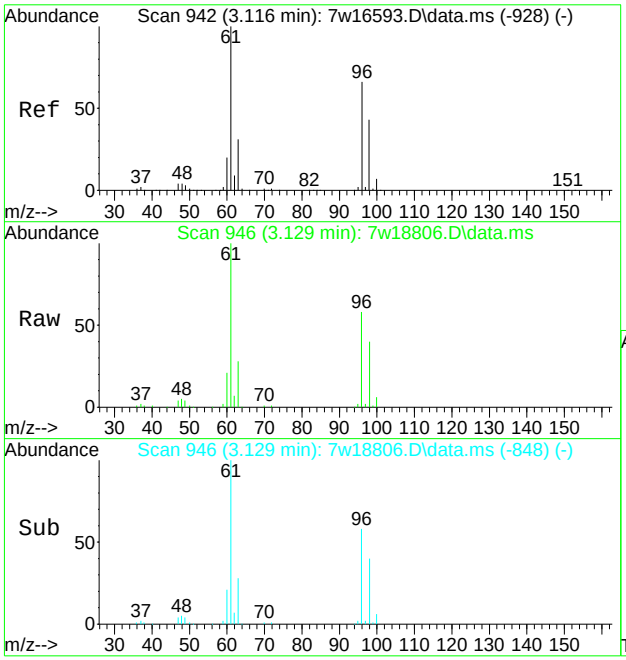


#38
HEXANE
Concen: 0.2954 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.013 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion: 57 Resp: 7399

Ion	Ratio	Lower	Upper
57	100		
56	50.9	38.0	70.6
41	59.9	65.9	122.5#

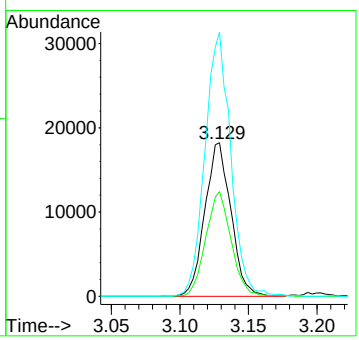


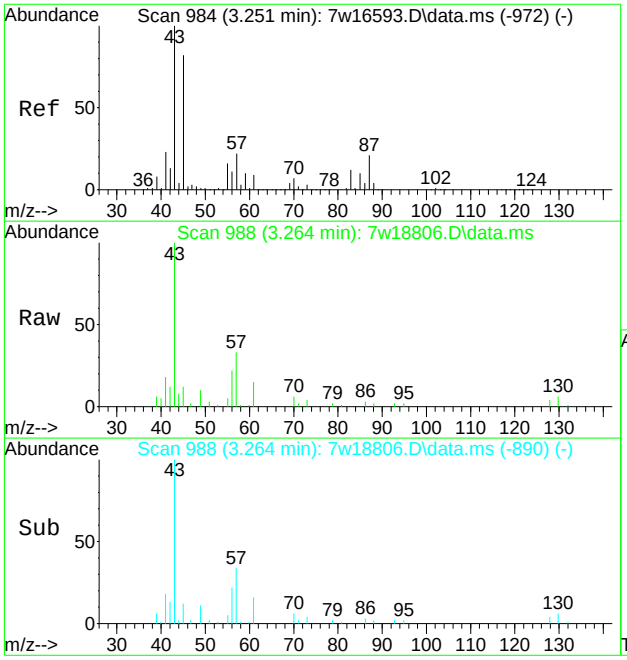


#42
CIS-1,2-DICHLOROETHENE
Concen: 1.7783 PPBV
RT: 3.129 min Scan# 946
Delta R.T. 0.016 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion: 96 Resp: 24112

Ion	Ratio	Lower	Upper
96	100		
98	66.5	44.7	83.1
61	170.4	107.3	199.3

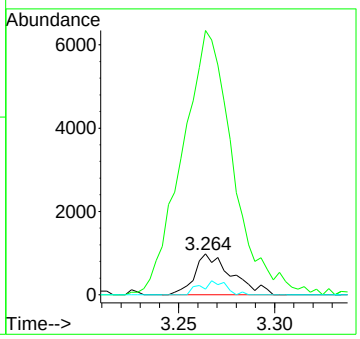


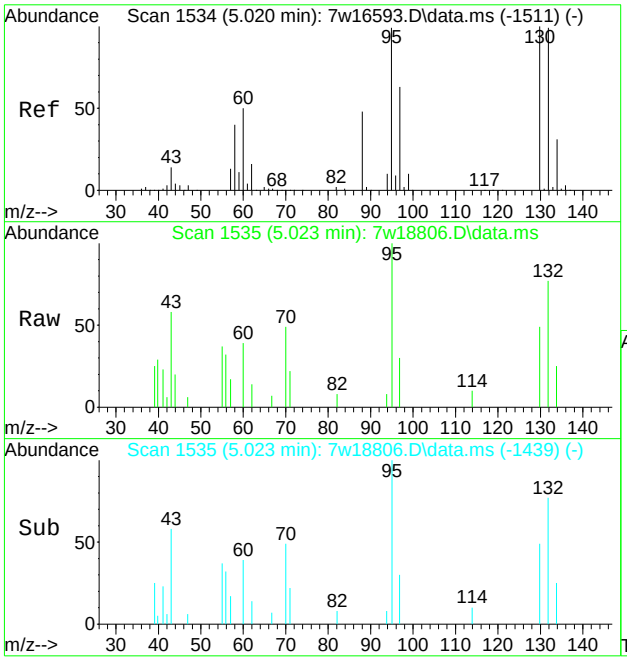


#44
ETHYL ACETATE
Concen: 0.2741 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.016 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion: 61 Resp: 1316

Ion	Ratio	Lower	Upper
61	100		
43	892.8	955.4	1774.4#
88	23.7	27.6	51.2#

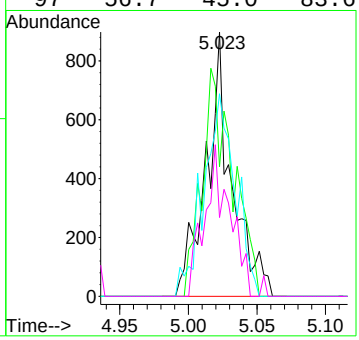


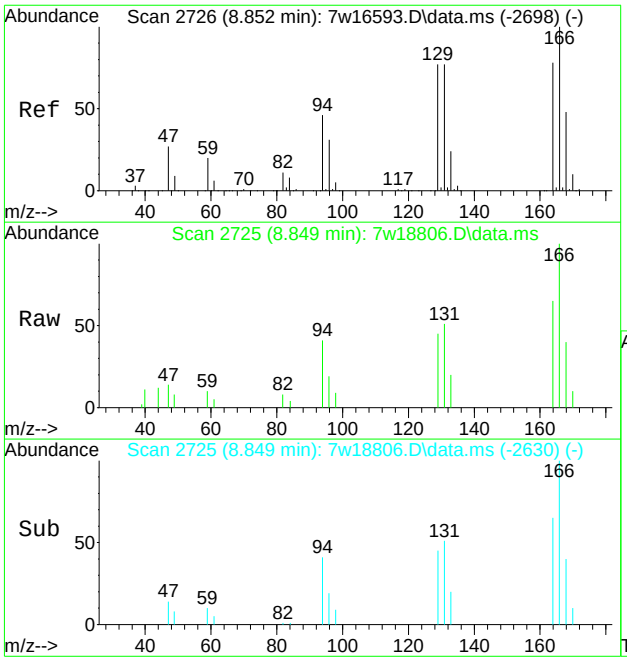


#55
TRICHLOROETHENE
Concen: 0.0648 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.010 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion: 95 Resp: 1160

Ion	Ratio	Lower	Upper
95	100		
130	104.3	69.4	129.0
132	94.5	69.4	128.8
97	56.7	45.0	83.6

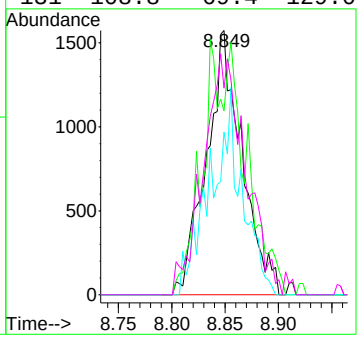




#72
TETRACHLOROETHENE
Concen: 0.2192 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w18806.D
Acq: 25 Nov 2025 4:48 pm

Tgt Ion:164 Resp: 3643

Ion	Ratio	Lower	Upper
164	100		
129	112.4	69.6	129.2
168	69.1	42.5	78.9
131	108.8	69.4	129.0



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18769.D
Acq On : 24 Nov 2025 12:43 pm
Operator : williamc
Sample : mb Inst : MS7W
Misc : MS92114,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:18:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

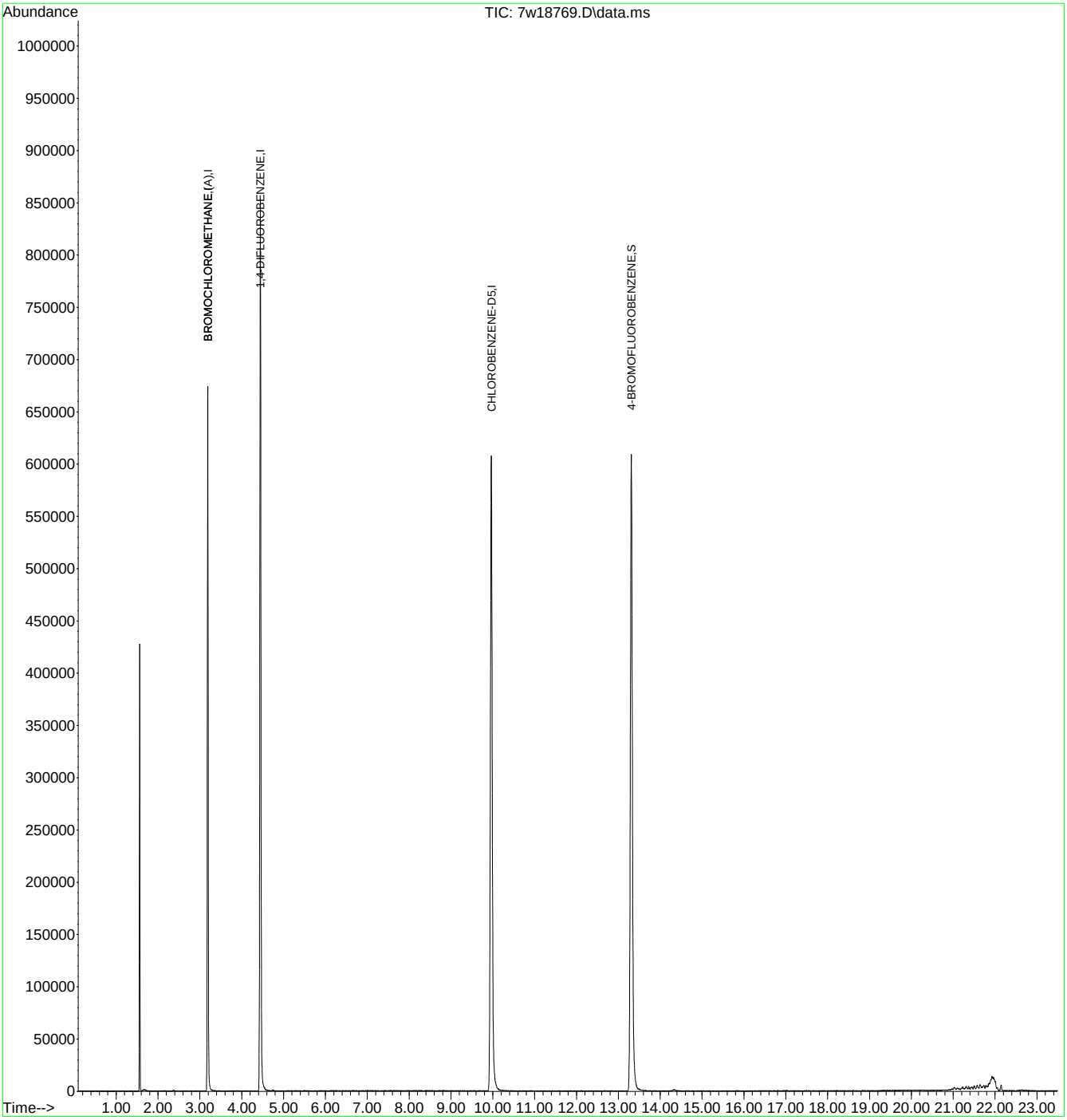
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	138916	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.444	114	676090	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	624942	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	138916	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.309	95	433098	8.61	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18769.D
Acq On : 24 Nov 2025 12:43 pm
Operator : williamc
Sample : mb Inst : MS7W
Misc : MS92114,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:18:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	551412	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2422137	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1175032	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	553790	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1558462	10.62	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.20%			
Target Compounds						Qvalue

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

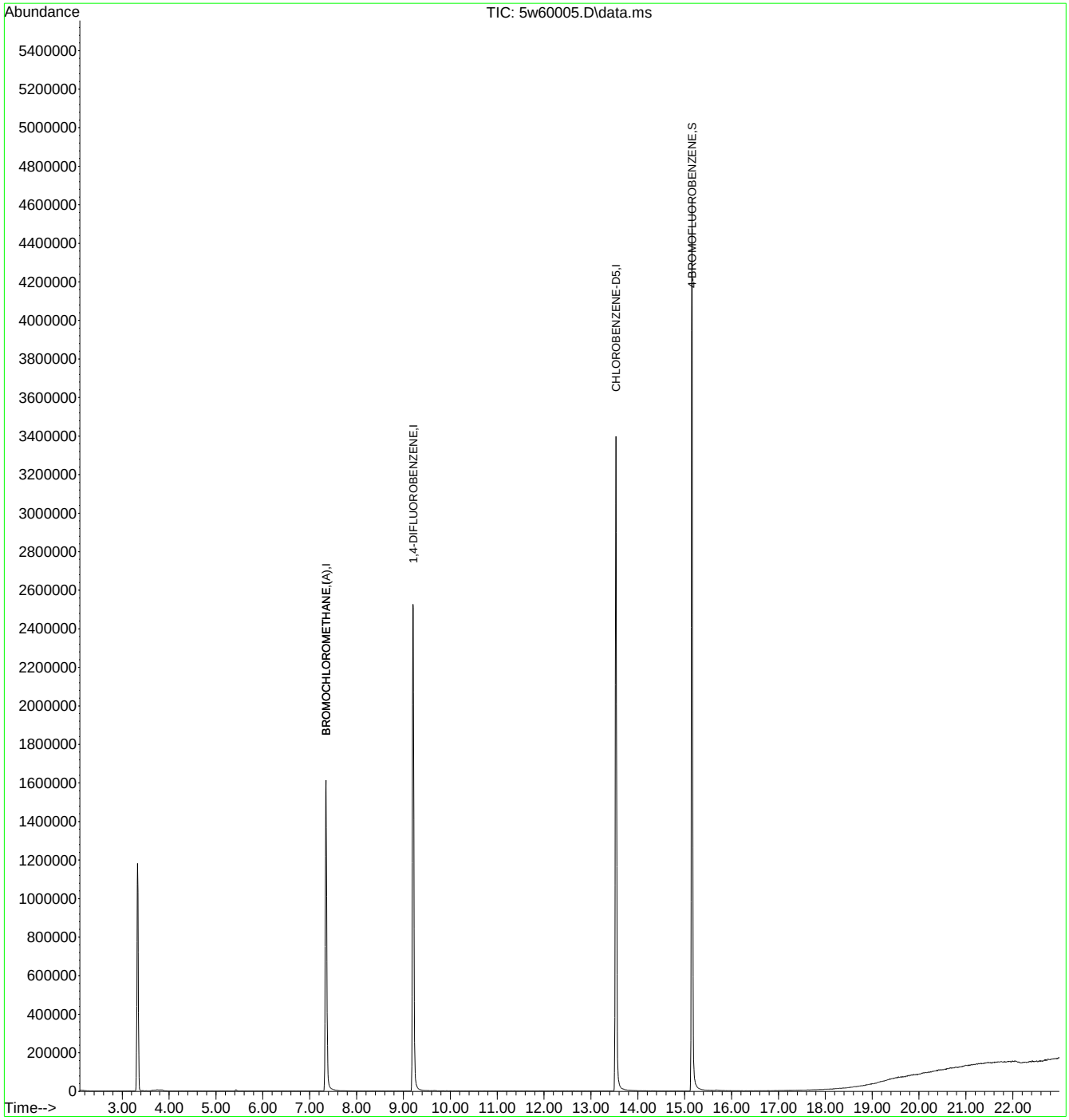
7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60005.D
Acq On : 24 Nov 2025 2:27 pm
Operator : benk
Sample : mb Inst : GCMS5W
Misc : MS92114,V5W2301,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:16:37 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18802.D
Acq On : 25 Nov 2025 1:43 pm
Operator : williamc
Sample : mb Inst : MS7W
Misc : MS92114,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:21:29 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

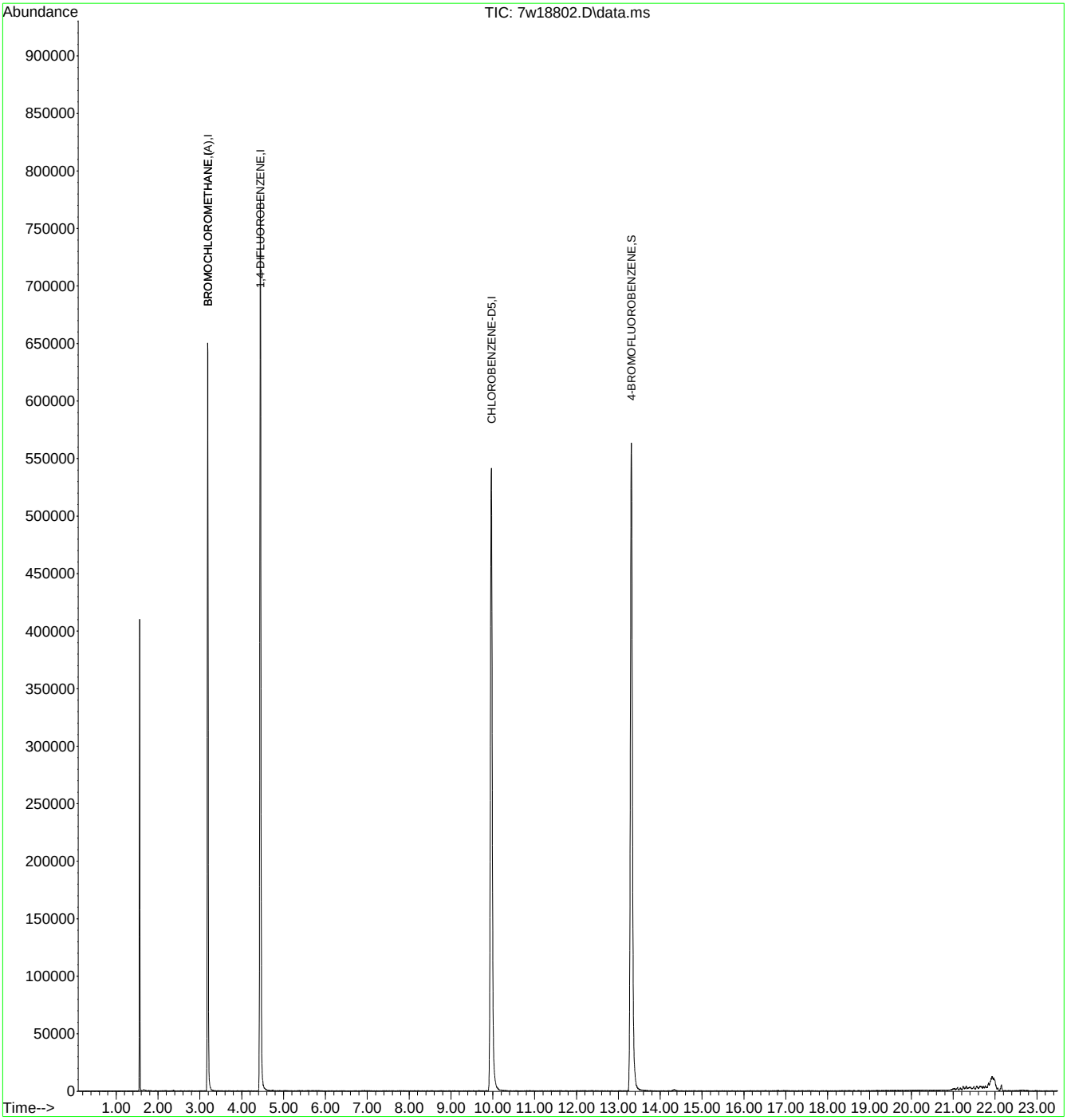
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	134761	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.444	114	623275	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	569543	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	134761	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.309	95	400789	8.74	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18802.D
Acq On : 25 Nov 2025 1:43 pm
Operator : williamc
Sample : mb Inst : MS7W
Misc : MS92114,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:21:29 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

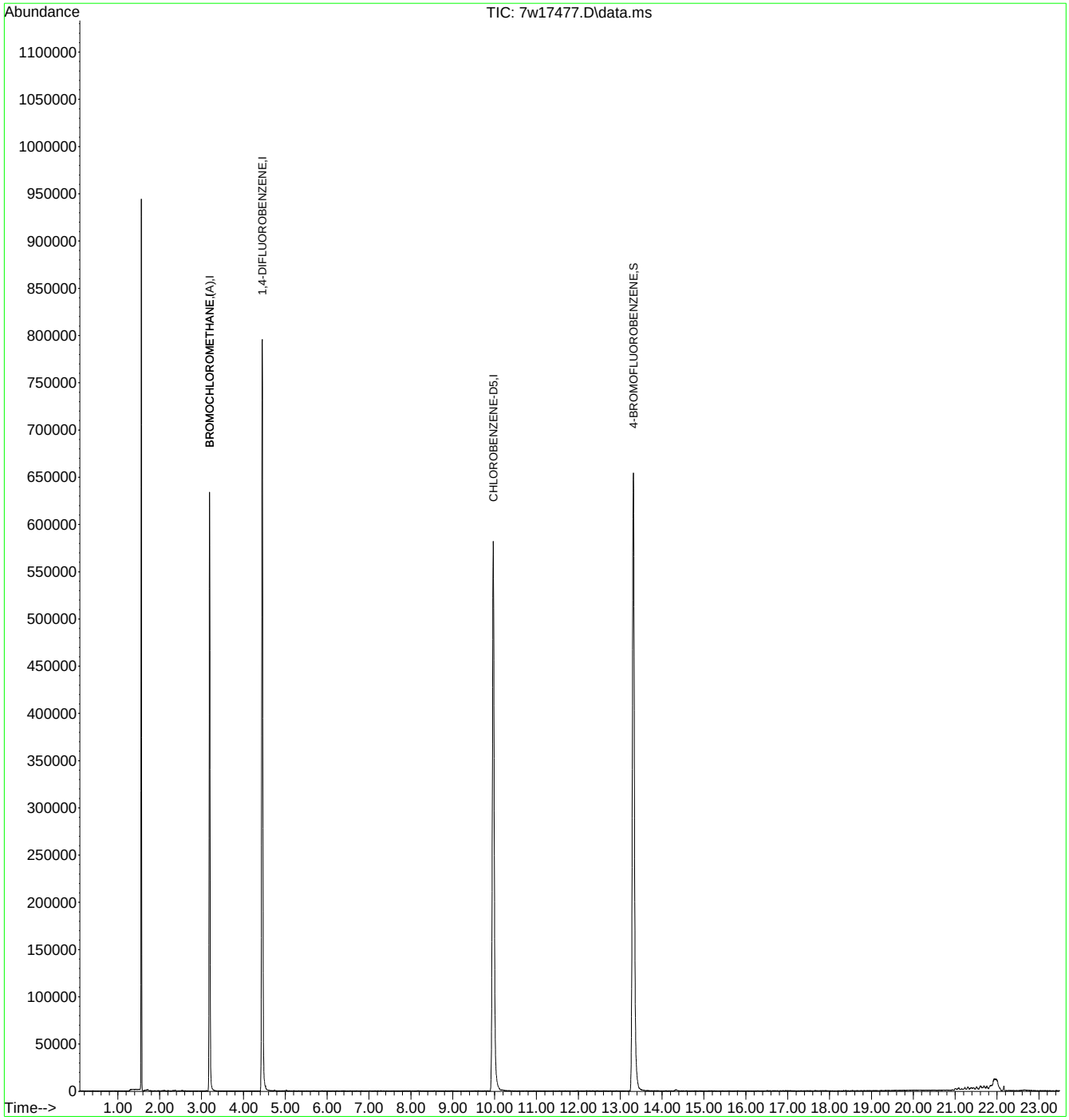
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	128174	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	642694	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	594320	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	128174	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	451678	9.44	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17477.D
Acq On : 26 Sep 2025 2:01 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w613,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 17:15:24 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

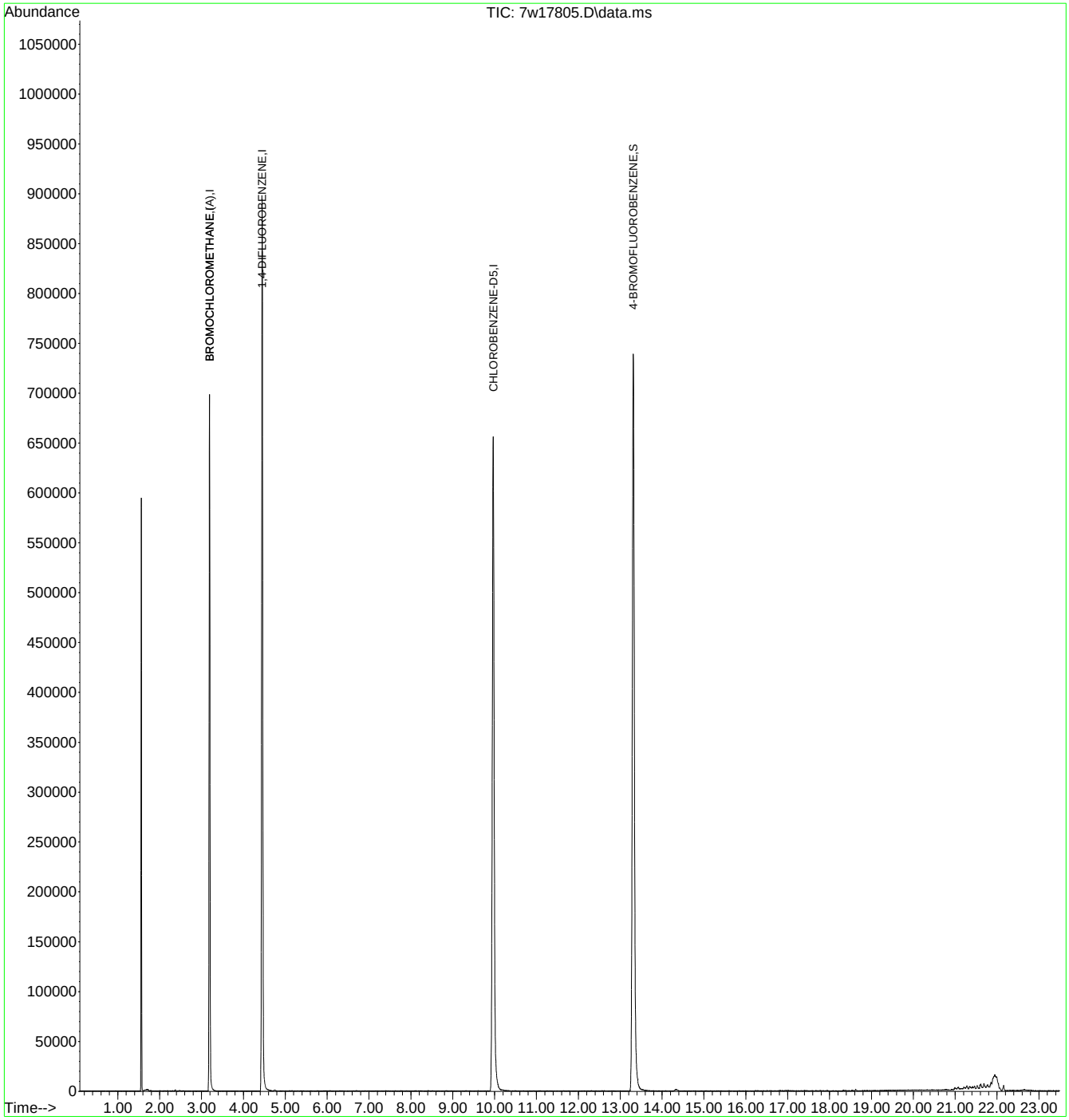
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	141808	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	703798	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	657479	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	141808	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	501563	9.47	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17805.D
Acq On : 13 Oct 2025 2:03 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS92114,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:36:17 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18508.D
Acq On : 12 Nov 2025 2:23 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS93644,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:21:04 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

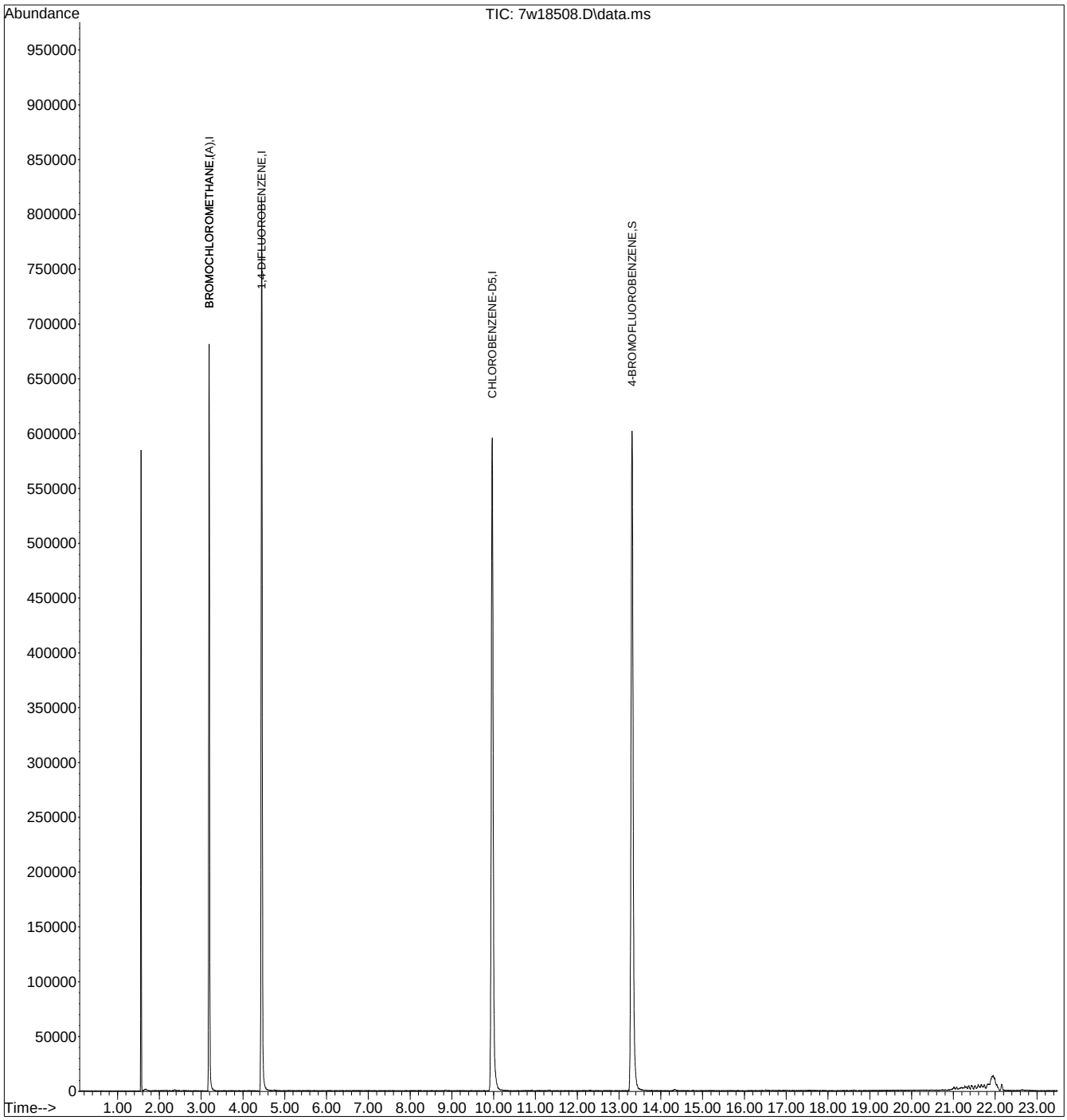
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	134794	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	620388	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.962	117	608317	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	134794	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	419326	8.56	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18508.D
Acq On : 12 Nov 2025 2:23 pm
Operator : thomash
Sample : mb Inst : MS7W
Misc : MS93644,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:21:04 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/25/25 18:38

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:57:41 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	127067	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	594082	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	555791	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	127067	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	421047	9.41	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	163094	10.5806	PPBV		85
3) FREON 152A	1.605	65	69206	8.7026	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	34526	10.0004	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.628	116	178104	10.7213	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	343402m	11.2845	PPBV		
7) PROPYLENE	1.628	41	77948	7.5732	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	325663	12.0282	PPBV		96
9) FREON 114	1.714	85	321722	10.2566	PPBV		90
10) CHLOROMETHANE	1.685	52	43649	10.0017	PPBV		88
11) VINYL CHLORIDE	1.747	62	152204	9.8492	PPBV		98
12) 1,3-BUTADIENE	1.785	54	121051	9.9172	PPBV		93
13) N-BUTANE	1.798	43	190828	9.2393	PPBV		96
14) BROMOMETHANE	1.856	94	119776	9.9957	PPBV		100
15) CHLOROETHANE	1.904	64	77896	9.2866	PPBV		91
16) DICHLOROFLUOROMETHANE	1.930	67	287874	9.9107	PPBV		98
17) ACETONITRILE	1.994	41	106466	7.3765	PPBV		100
18) ACROLEIN	2.033	56	69912	10.1967	PPBV		96
19) FREON 123	2.046	83	288819	9.8687	PPBV	#	95
20) FREON 123A	2.062	117	212339	12.2470	PPBV		79
21) TRICHLOROFLUOROMETHANE	2.126	101	391238	11.8374	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	287398	10.2614	PPBV		97
23) ACETONE	2.068	58	81953	10.7023	PPBV		88
24) PENTANE	2.238	42	132467	8.7331	PPBV		93
25) IODOMETHANE	2.300	142	360086	11.8417	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.325	96	130669	10.3717	PPBV		95
27) CARBON DISULFIDE	2.460	76	319954	8.9505	PPBV		99
28) ETHANOL	1.933	45	63856	8.5640	PPBV		98
29) BROMOETHENE	2.004	106	124693	10.3649	PPBV		99
30) ACRYLONITRILE	2.210	52	116550	10.8237	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	107904	8.7370	PPBV		99
32) 3-CHLOROPROPENE	2.406	76	56070	8.3205	PPBV		88
33) FREON 113	2.460	151	222801	11.7407	PPBV		92
34) TRANS-1,2-DICHLOROETHENE	2.685	96	129039	9.3093	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.338	59	291259	8.3236	PPBV		94
36) METHYL TERTIARY BUTYL ...	2.792	73	339256	8.6040	PPBV		98
37) TETRAHYDROFURAN	3.467	72	46424	7.2597	PPBV		99
38) HEXANE	3.238	57	253296	9.5372	PPBV		94
39) VINYL ACETATE	2.827	86	29418	7.7623	PPBV		72
40) 1,1-DICHLOROETHANE	2.759	63	265529	9.9091	PPBV		99
41) METHYL ETHYL KETONE	2.920	72	54844	7.5678	PPBV		82
42) CIS-1,2-DICHLOROETHENE	3.113	96	129772	9.0256	PPBV		94
43) DIISOPROPYL ETHER	3.242	59	70962	9.4239	PPBV		79
44) ETHYL ACETATE	3.248	61	48684	9.5635	PPBV		81
45) METHYL ACRYLATE	3.235	55	314650	9.7907	PPBV	#	100
46) CHLOROFORM	3.261	83	267669	9.6514	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	268472	9.0317	PPBV		98
48) 1,1,1-TRICHLOROETHANE	3.820	97	298172	10.2013	PPBV		97
49) CARBON TETRACHLORIDE	4.235	117	338544	11.1804	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:57:41 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	3.660	62	207408	9.6204	PPBV	99
51) BENZENE	4.126	78	319876	7.5188	PPBV	96
53) CYCLOHEXANE	4.328	84	144219	8.2977	PPBV	85
54) 2,3-DIMETHYLPENTANE	4.582	71	69099	7.9722	PPBV	65
55) TRICHLOROETHENE	5.013	95	171084	9.2339	PPBV	94
56) 1,2-DICHLOROPROPANE	4.779	63	146716	8.9593	PPBV	96
57) DIBROMOMETHANE	4.740	174	168876	10.6963	PPBV	89
58) ETHYL ACRYLATE	4.898	55	349578	9.5374	PPBV	99
59) BROMODICHLOROMETHANE	4.959	83	287677	9.6101	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	721716	8.9974	PPBV	99
61) 1,4-DIOXANE	5.026	88	73362	8.3649	PPBV	91
62) HEPTANE	5.415	43	212995	8.0420	PPBV	91
63) METHYL METHACRYLATE	5.312	69	117970	7.9266	PPBV	96
64) METHYL ISOBUTYL KETONE	6.036	58	138429	8.7158	PPBV	86
65) CIS-1,3-DICHLOROPROPENE	5.933	75	216672	8.6290	PPBV	98
66) TOLUENE	7.126	91	440300	9.3340	PPBV	99
67) 1,3-DICHLOROPROPANE	7.187	76	213535	9.0294	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.608	75	199055	8.7741	PPBV	96
69) 1,1,2-TRICHLOROETHANE	6.762	83	120599	8.9720	PPBV	92
70) 2-HEXANONE	7.692	58	184611	8.3302	PPBV	85
71) ETHYL METHACRYLATE	7.827	69	205720	8.2865	PPBV	98
72) TETRACHLOROETHENE	8.843	164	205144	11.9227	PPBV	99
73) DIBROMOCHLOROMETHANE	7.656	129	341224	12.4916	PPBV	99
74) 1,2-DIBROMOETHANE	7.997	107	263615	10.8406	PPBV	100
75) OCTANE	8.991	43	300216	8.4621	PPBV	95
77) 1,1,1,2-TETRACHLOROETHANE	10.052	131	236408	11.8534	PPBV	98
78) CHLOROBENZENE	10.042	112	404229	10.6464	PPBV	92
79) ETHYLBENZENE	10.923	91	619501	9.9571	PPBV	100
80) M,P-XYLENE	11.344	91	989664	19.6357	PPBV	99
81) O-XYLENE	12.277	91	506538	10.3548	PPBV	97
82) STYRENE	12.068	104	375860	10.2489	PPBV	99
83) NONANE	13.399	43	317297	8.3328	PPBV	88
84) BROMOFORM	11.151	173	300866	12.8238	PPBV	98
85) 1,1,2,2-TETRACHLOROETHANE	12.286	83	321853	9.1850	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	12.572	75	261871	9.5352	PPBV	100
88) ISOPROPYLBENZENE	13.785	120	200008	10.7556	PPBV	92
89) BROMOBENZENE	13.650	77	323265	9.0514	PPBV	83
90) 2-CHLOROTOLUENE	14.781	126	183498	10.5802	PPBV	99
91) N-PROPYLBENZENE	15.122	120	209515	10.6155	PPBV	99
92) 4-ETHYLTOLUENE	15.569	105	753107	10.3108	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	15.836	105	636689	10.4739	PPBV	99
94) ALPHA-METHYLSTYRENE	16.170	118	319771	10.6069	PPBV	99
95) TERT-BUTYLBENZENE	16.495	134	155423	10.4868	PPBV	87
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	667975	11.0842	PPBV	96
97) BENZYL CHLORIDE	16.598	91	481058	9.8808	PPBV	98
98) M-DICHLOROBENZENE	16.569	146	445813	10.7675	PPBV	99
99) P-DICHLOROBENZENE	16.662	146	451358	11.0632	PPBV	99
100) O-DICHLOROBENZENE	16.984	146	424149	11.0436	PPBV	99
101) SEC-BUTYLBENZENE	16.813	134	190081	10.7705	PPBV	97
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	639653	10.5882	PPBV	99
103) P-ISOPROPYLTOLUENE	17.010	134	207830	10.5951	PPBV	86
104) N-BUTYLBENZENE	17.376	134	207704	11.1067	PPBV	94
105) HEXACHLOROETHANE	17.553	117	259631	11.2692	PPBV	100
106) HEXACHLOROBUTADIENE	18.620	225	330768	12.1096	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.309	180	422002	12.8820	PPBV	98
108) NAPHTHALENE	18.354	128	1071047	14.5746	PPBV	100
110) TVHC as equiv Pentane	2.238	TIC	666146	9.2882	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:57:41 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

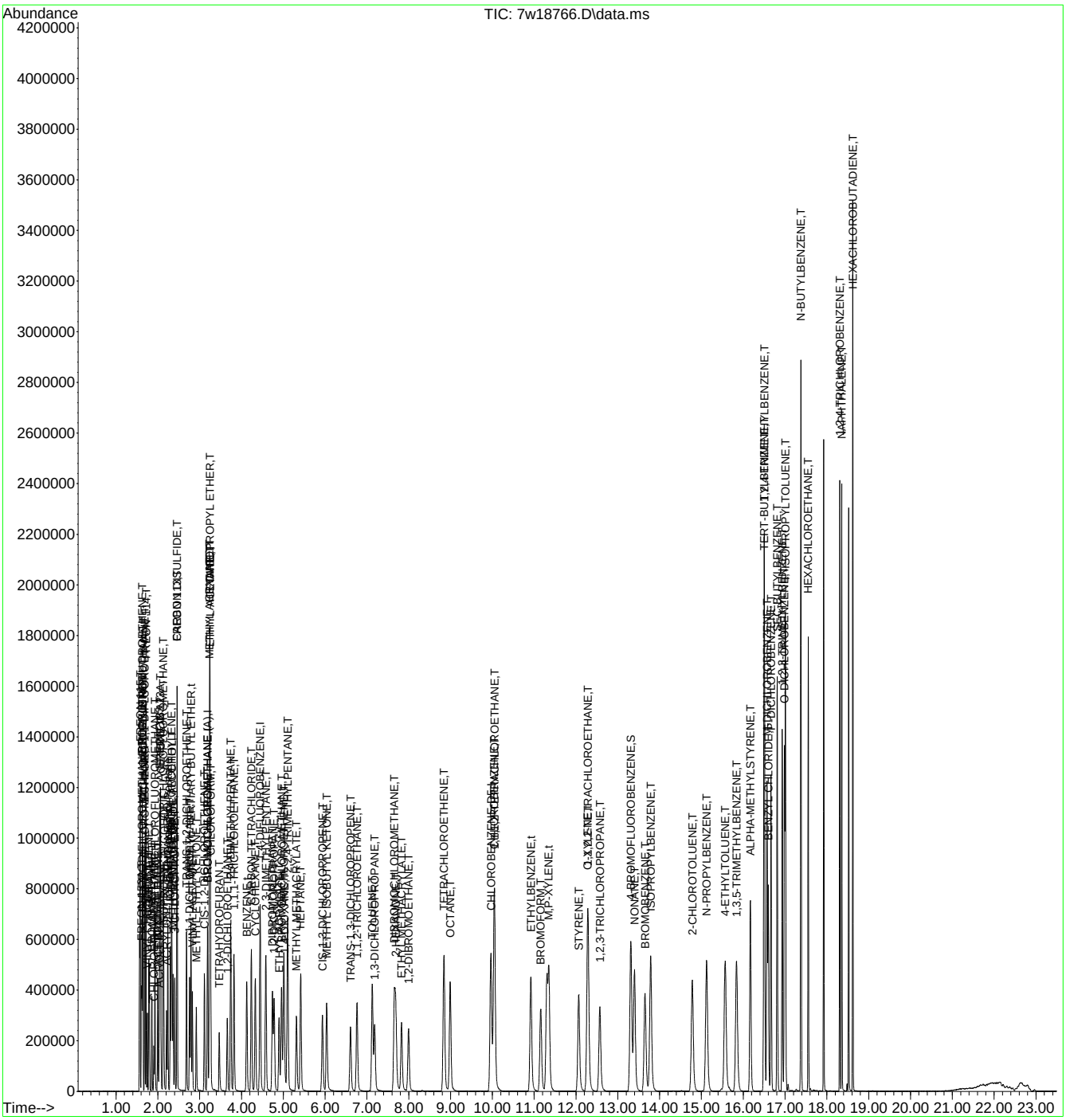
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:57:41 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

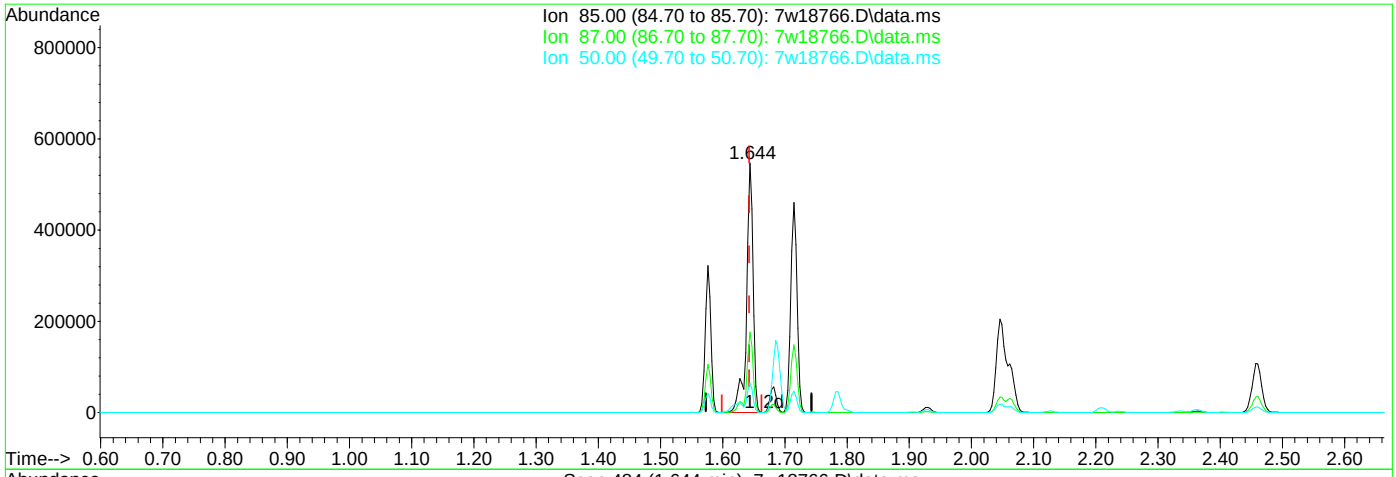
Sample Number: V7W655-BS
Lab FileID: 7W18766.D
Injection Time: 11/24/25 10:35
Method: TO-15
Analyst approved: 11/25/25 13:16 Claire Basilio
Supervisor approved: 11/25/25 18:38 Kanya Veerawat

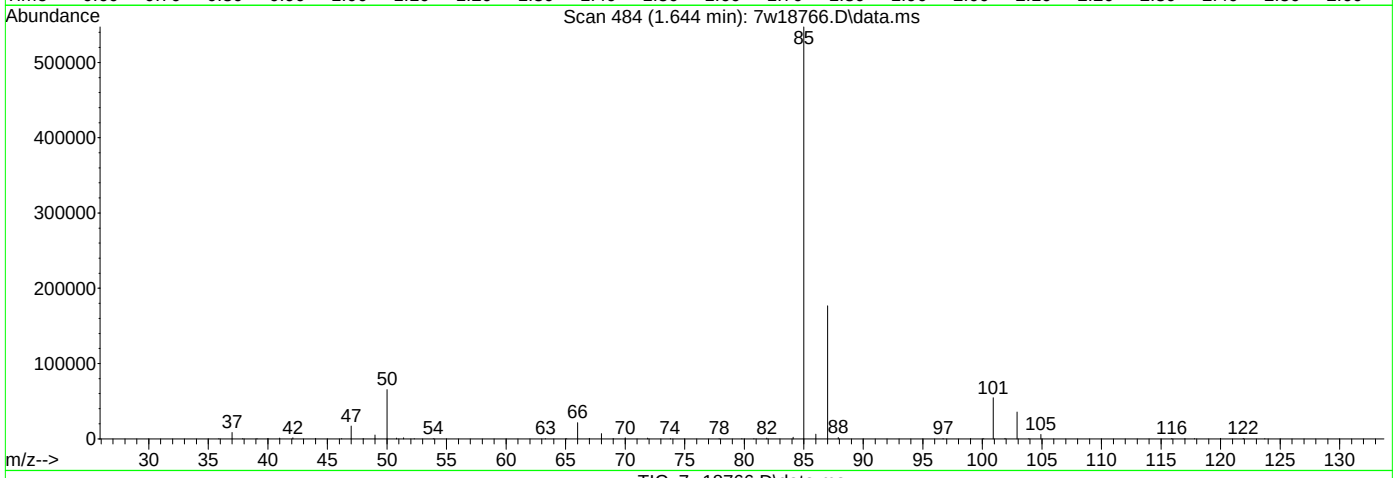
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:02:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18766.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 13.06PPBV

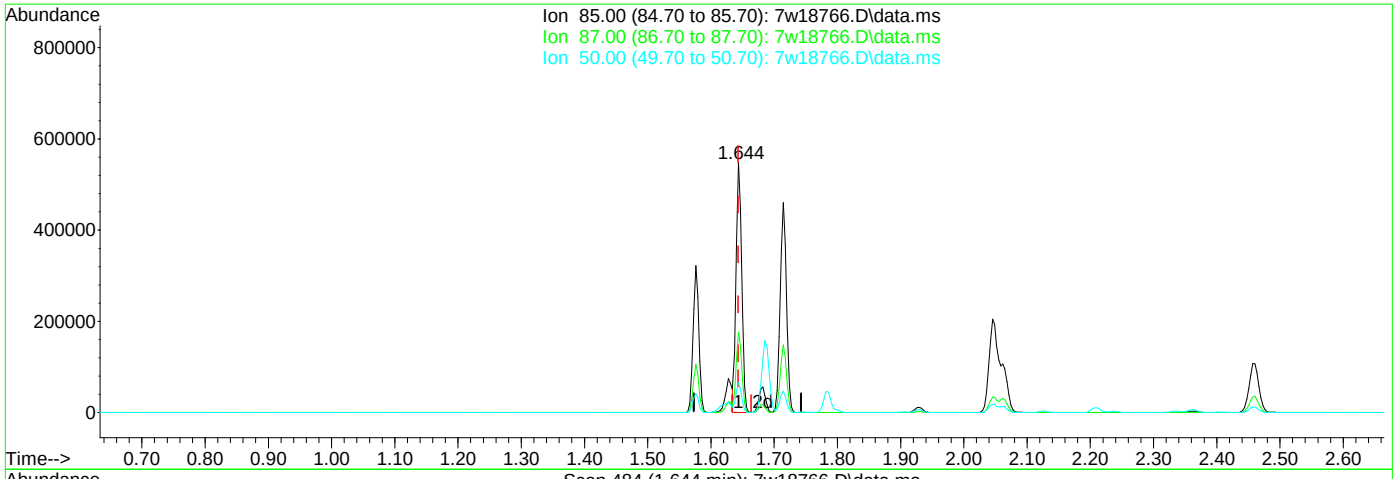
response 397517

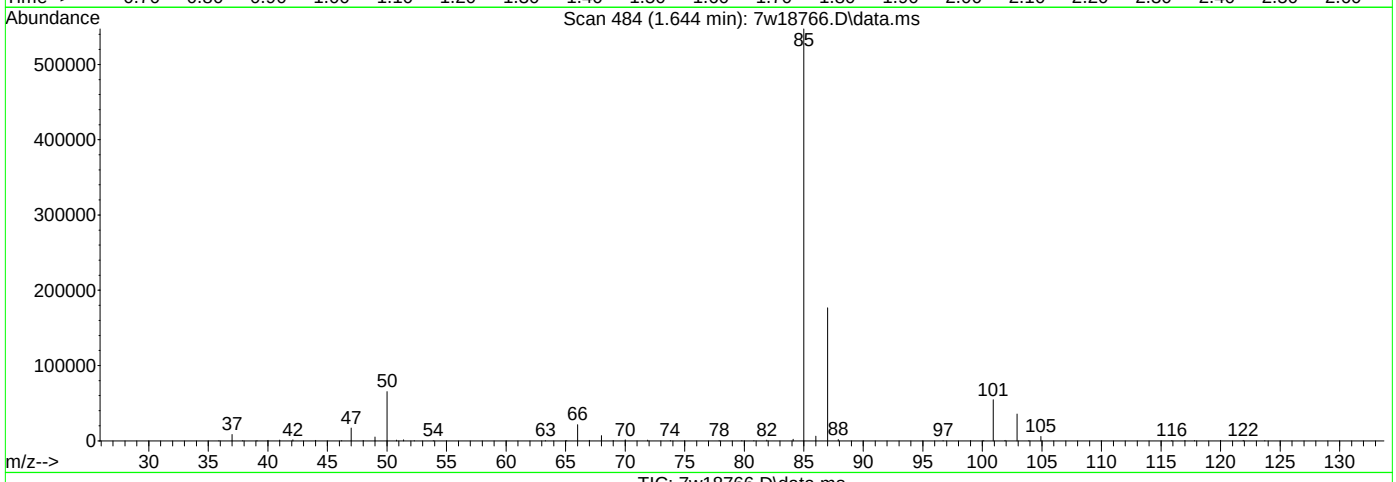
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.31
50.00	19.30	16.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18766.D
Acq On : 24 Nov 2025 10:35 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:02:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18766.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 11.28PPBV m

response 343402

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.40
50.00	19.30	19.66
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/25/25 18:38

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:08:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	130042	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	617828	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	553873	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	130042	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	420626	9.43	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	173368	10.9898	PPBV		85
3) FREON 152A	1.605	65	70277	8.6351	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	34839	9.8602	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.628	116	184526	10.8538	PPBV		99
6) DICHLORODIFLUOROMETHANE	1.644	85	347783m	11.1670	PPBV		
7) PROPYLENE	1.628	41	78736	7.4748	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.679	65	330997	11.9455	PPBV		96
9) FREON 114	1.714	85	326696	10.1769	PPBV		90
10) CHLOROMETHANE	1.685	52	43801	9.8069	PPBV		91
11) VINYL CHLORIDE	1.746	62	156029	9.8658	PPBV		99
12) 1,3-BUTADIENE	1.785	54	126483	10.1252	PPBV		91
13) N-BUTANE	1.798	43	191252	9.0480	PPBV		94
14) BROMOMETHANE	1.856	94	123231	10.0487	PPBV		99
15) CHLOROETHANE	1.904	64	78562	9.1518	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	292494	9.8393	PPBV		98
17) ACETONITRILE	1.994	41	107536	7.2802	PPBV		100
18) ACROLEIN	2.033	56	70271	10.0146	PPBV		99
19) FREON 123	2.046	83	297775	9.9419	PPBV	#	96
20) FREON 123A	2.062	117	216614	12.2078	PPBV		79
21) TRICHLOROFLUOROMETHANE	2.126	101	395784	11.7010	PPBV		100
22) ISOPROPYL ALCOHOL	2.139	45	290029	10.1185	PPBV		96
23) ACETONE	2.068	58	82718	10.5550	PPBV		88
24) PENTANE	2.238	42	136763	8.8100	PPBV		93
25) IODOMETHANE	2.300	142	363827	11.6910	PPBV		94
26) 1,1-DICHLOROETHYLENE	2.325	96	134360	10.4207	PPBV		93
27) CARBON DISULFIDE	2.460	76	325677	8.9021	PPBV		98
28) ETHANOL	1.930	45	64390	8.4381	PPBV		98
29) BROMOETHENE	2.004	106	128409	10.4296	PPBV		99
30) ACRYLONITRILE	2.209	52	121380	11.0143	PPBV		98
31) METHYLENE CHLORIDE	2.364	84	108091	8.5520	PPBV		93
32) 3-CHLOROPROPENE	2.402	76	58718	8.5141	PPBV		90
33) FREON 113	2.460	151	227229	11.7001	PPBV		92
34) TRANS-1,2-DICHLOROETHENE	2.685	96	132005	9.3054	PPBV		94
35) TERTIARY BUTYL ALCOHOL	2.335	59	307013	8.5731	PPBV		95
36) METHYL TERTIARY BUTYL ...	2.788	73	346556	8.5881	PPBV		99
37) TETRAHYDROFURAN	3.467	72	49893	7.6237	PPBV		89
38) HEXANE	3.238	57	269924	9.9307	PPBV		94
39) VINYL ACETATE	2.827	86	31368	8.0874	PPBV		78
40) 1,1-DICHLOROETHANE	2.759	63	271065	9.8843	PPBV		98
41) METHYL ETHYL KETONE	2.920	72	57923	7.8098	PPBV		78
42) CIS-1,2-DICHLOROETHENE	3.113	96	133301	9.0590	PPBV		92
43) DIISOPROPYL ETHER	3.242	59	75341	9.7765	PPBV		81
44) ETHYL ACETATE	3.245	61	50573	9.7073	PPBV		89
45) METHYL ACRYLATE	3.232	55	336892	10.2430	PPBV	#	99
46) CHLOROFORM	3.261	83	279014	9.8303	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	312903	10.2856	PPBV		96
48) 1,1,1-TRICHLOROETHANE	3.820	97	321139	10.7357	PPBV		98
49) CARBON TETRACHLORIDE	4.235	117	358476	11.5678	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:08:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.656	62	227328	10.3032	PPBV	99
51)	BENZENE	4.126	78	343529	7.8900	PPBV	92
53)	CYCLOHEXANE	4.328	84	155995	8.6303	PPBV	79
54)	2,3-DIMETHYLPENTANE	4.582	71	75903	8.4206	PPBV	57
55)	TRICHLOROETHENE	5.013	95	184588	9.5798	PPBV	96
56)	1,2-DICHLOROPROPANE	4.782	63	162929	9.5670	PPBV	97
57)	DIBROMOMETHANE	4.743	174	172308	10.4942	PPBV	93
58)	ETHYL ACRYLATE	4.897	55	404570	10.6135	PPBV	99
59)	BROMODICHLOROMETHANE	4.959	83	311678	10.0117	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	819048	9.8184	PPBV	99
61)	1,4-DIOXANE	5.023	88	79264	8.6905	PPBV	87
62)	HEPTANE	5.415	43	248776	9.0320	PPBV	90
63)	METHYL METHACRYLATE	5.312	69	130876	8.4558	PPBV	93
64)	METHYL ISOBUTYL KETONE	6.036	58	155531	9.4162	PPBV	87
65)	CIS-1,3-DICHLOROPROPENE	5.933	75	233970	8.9597	PPBV	99
66)	TOLUENE	7.126	91	456259	9.3006	PPBV	98
67)	1,3-DICHLOROPROPANE	7.187	76	218038	8.8654	PPBV	98
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	213696	9.0575	PPBV	97
69)	1,1,2-TRICHLOROETHANE	6.762	83	130795	9.3565	PPBV	93
70)	2-HEXANONE	7.688	58	188538	8.1804	PPBV	85
71)	ETHYL METHACRYLATE	7.827	69	210898	8.1686	PPBV	97
72)	TETRACHLOROETHENE	8.843	164	208129	11.6313	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.659	129	345850	12.1744	PPBV	99
74)	1,2-DIBROMOETHANE	7.997	107	271439	10.7333	PPBV	99
75)	OCTANE	8.991	43	300425	8.1425	PPBV	94
77)	1,1,1,2-TETRACHLOROETHANE	10.052	131	240283	12.0894	PPBV	98
78)	CHLOROBENZENE	10.042	112	411064	10.8639	PPBV	92
79)	ETHYLBENZENE	10.923	91	635716	10.2531	PPBV	100
80)	M,P-XYLENE	11.344	91	1009065	20.0900	PPBV	97
81)	O-XYLENE	12.273	91	516198	10.5888	PPBV	97
82)	STYRENE	12.064	104	385852	10.5578	PPBV	99
83)	NONANE	13.402	43	325572	8.5797	PPBV	88
84)	BROMOFORM	11.151	173	306852	13.1243	PPBV	98
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	328463	9.4061	PPBV	99
86)	1,2,3-TRICHLOROPROPANE	12.569	75	270897	9.8981	PPBV	100
88)	ISOPROPYLBENZENE	13.788	120	204961	11.0602	PPBV	93
89)	BROMOBENZENE	13.653	77	328865	9.2401	PPBV	82
90)	2-CHLOROTOLUENE	14.781	126	189553	10.9672	PPBV	99
91)	N-PROPYLBENZENE	15.125	120	214748	10.9183	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	768985	10.5646	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	649621	10.7236	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.170	118	324904	10.8144	PPBV	100
95)	TERT-BUTYLBENZENE	16.495	134	158780	10.7504	PPBV	87
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	673628	11.2167	PPBV	95
97)	BENZYL CHLORIDE	16.598	91	497027	10.2442	PPBV	98
98)	M-DICHLOROBENZENE	16.569	146	453973	11.0026	PPBV	99
99)	P-DICHLOROBENZENE	16.662	146	456398	11.2255	PPBV	99
100)	O-DICHLOROBENZENE	16.984	146	432720	11.3057	PPBV	99
101)	SEC-BUTYLBENZENE	16.813	134	194151	11.0392	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	653955	10.8624	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.006	134	213271	10.9102	PPBV	85
104)	N-BUTYLBENZENE	17.376	134	210642	11.3028	PPBV	95
105)	HEXACHLOROETHANE	17.553	117	267030	11.6305	PPBV	99
106)	HEXACHLOROBUTADIENE	18.617	225	345007	12.6747	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.305	180	430210	13.1780	PPBV	99
108)	NAPHTHALENE	18.354	128	1089339	14.8749	PPBV	100
110)	TVHC as equiv Pentane	2.238	TIC	693935	9.4543	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:08:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

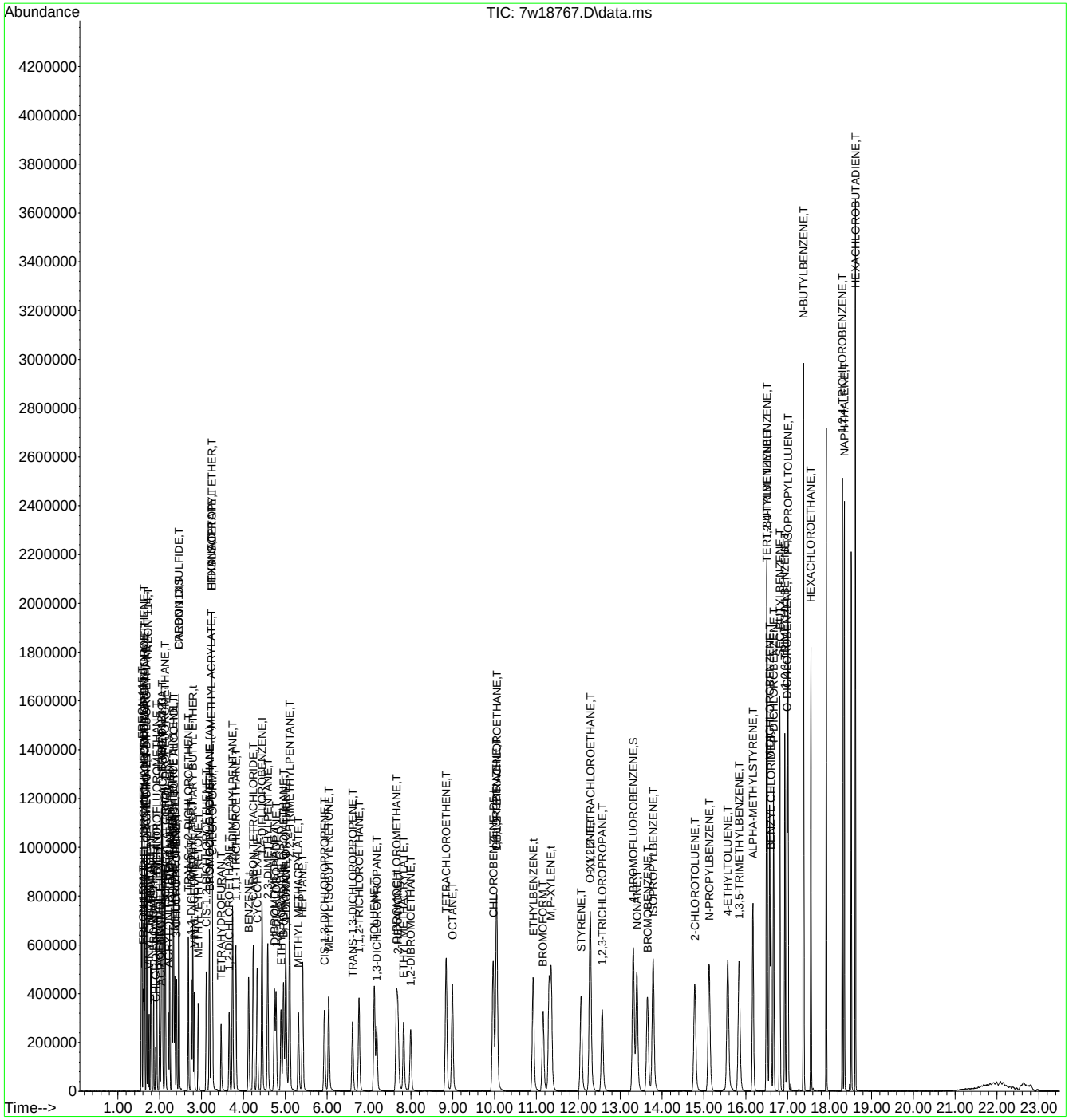
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:08:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

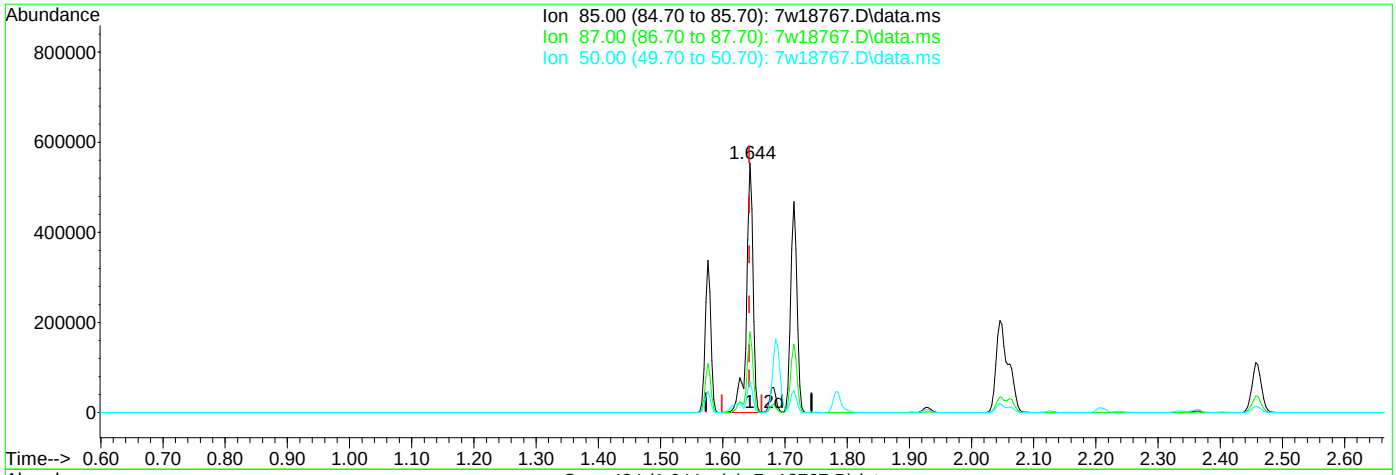
Sample Number: V7W655-BSD
Lab FileID: 7W18767.D
Injection Time: 11/24/25 11:15
Method: TO-15
Analyst approved: 11/25/25 13:16 Claire Basilio
Supervisor approved: 11/25/25 18:38 Kanya Veerawat

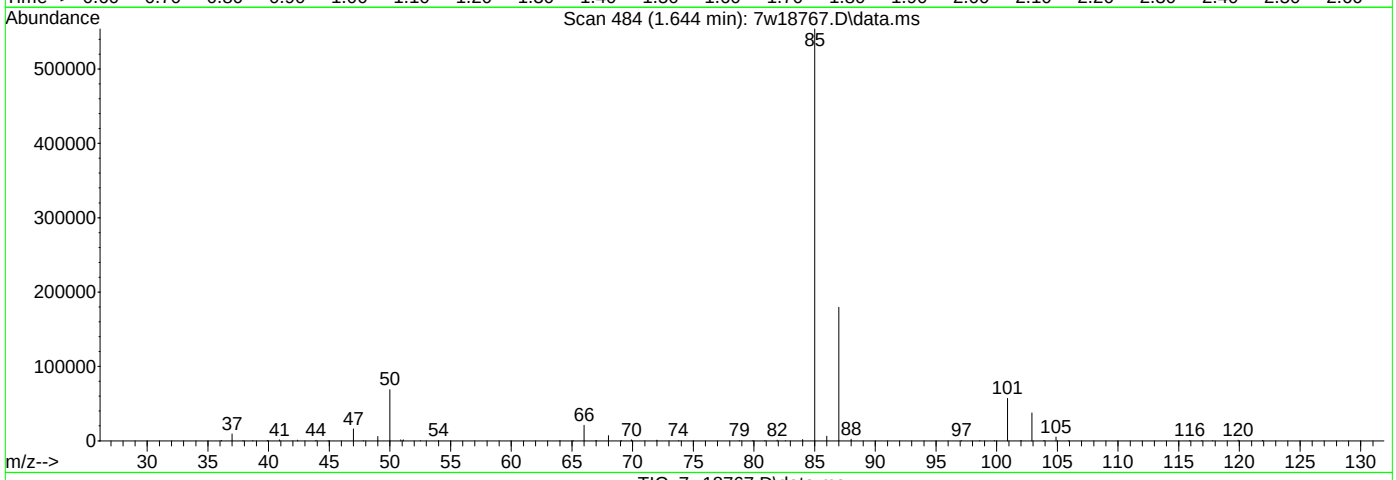
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:02:50 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18767.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.97PPBV

response 404041

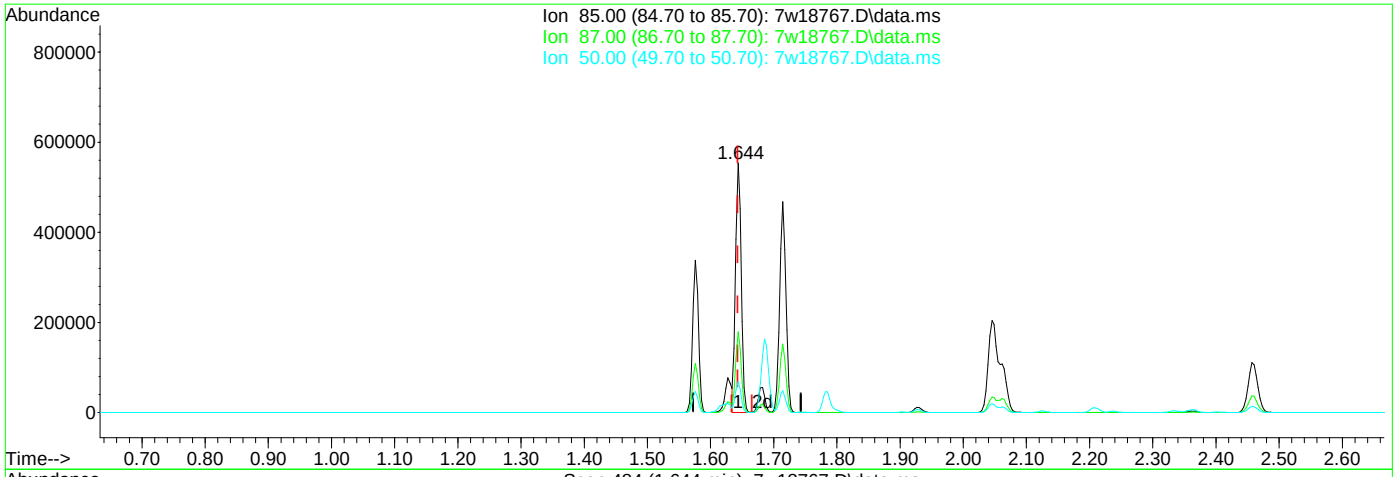
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.27
50.00	19.30	16.73
0.00	0.00	0.00

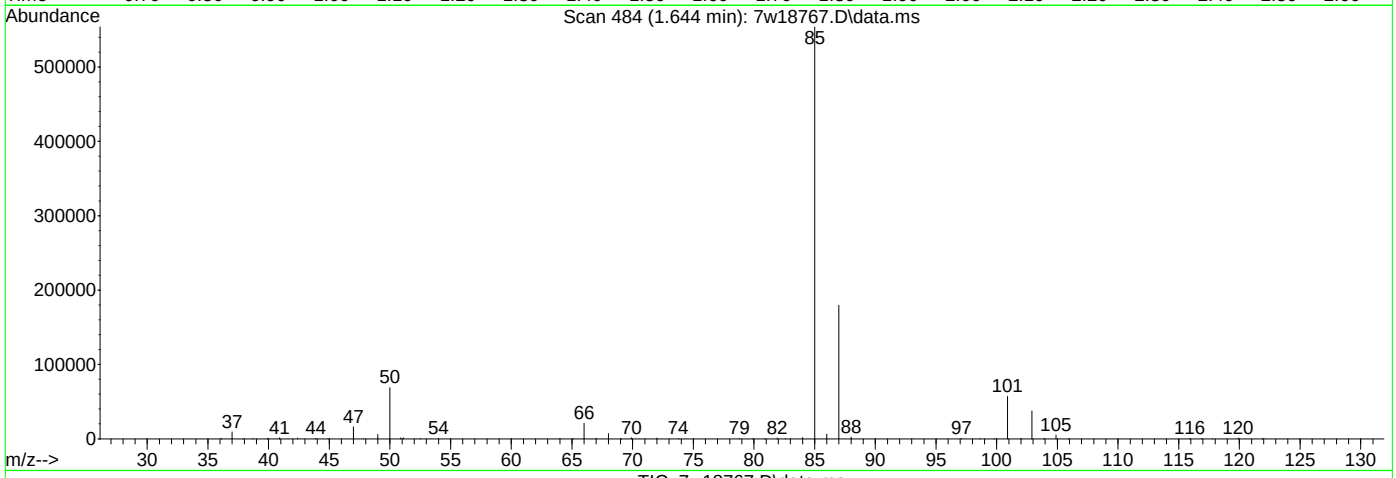
7W18767.D edits: DICHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18767.D
Acq On : 24 Nov 2025 11:15 am
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:02:50 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18767.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 11.17PPBV m

response 347783

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.49
50.00	19.30	19.43
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	477635	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2106400	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1093252	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	477635	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1356906	9.93	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.30%			
Target Compounds						Qvalue
2) FREON 115	3.378	119	240600	7.3523	PPBV	99
3) FREON 152A	3.451	65	340897	9.6234	PPBV	96
4) CHLORODIFLUOROMETHANE	3.482	67	173657	11.7195	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.512	116	869018	11.7123	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.555	85	1610737	11.7838	PPBV	98
7) PROPYLENE	3.506	41	350050	9.5479	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	1227255	11.0863	PPBV	98
9) FREON 114	3.739	85	1541030	12.3325	PPBV	100
10) CHLOROMETHANE	3.671	52	145917	9.7203	PPBV	97
11) VINYL CHLORIDE	3.824	62	498599	10.7753	PPBV	100
12) 1,3-BUTADIENE	3.916	54	301164	10.8112	PPBV	99
13) n-BUTANE	3.953	43	488858	10.7389	PPBV	98
14) BROMOMETHANE	4.112	94	569388	11.5706	PPBV	100
15) CHLOROETHANE	4.234	64	221549	9.8142	PPBV	99
16) DICHLOROFLUOROMETHANE	4.295	67	1109461	11.2826	PPBV	99
17) ACETONITRILE	4.485	41	262953	10.1114	PPBV	100
18) ACROLEIN	4.577	56	156039	10.5589	PPBV	98
19) FREON 123	4.595	83	1275447	11.2118	PPBV #	71
20) FREON 123A	4.638	117	772471	11.8230	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.797	101	1369754	11.7315	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	890471	9.5073	PPBV	99
23) ACETONE	4.681	58	190458	10.1670	PPBV	94
24) PENTANE	5.078	42	438928	9.0202	PPBV	99
25) IODOMETHANE	5.256	142	1749912	12.0245	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.323	96	543628	10.6119	PPBV	93
27) CARBON DISULFIDE	5.678	76	1448112	10.7882	PPBV	98
28) ETHANOL	4.326	45	178411	11.3698	PPBV	99
29) BROMOETHENE	4.485	106	577429	11.8977	PPBV	100
30) ACRYLONITRILE	5.048	52	316874	9.9950	PPBV	99
31) METHYLENE CHLORIDE	5.427	84	467883	9.7626	PPBV	92
32) 3-CHLOROPROPENE	5.525	76	226892	9.8346	PPBV	88
33) FREON 113	5.647	151	974773	11.4357	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	548163	10.2055	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.384	59	972270	10.1517	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.479	73	1396961	10.3330	PPBV	97
37) TETRAHYDROFURAN	7.856	72	210812	11.3678	PPBV	91
38) HEXANE	7.385	57	756923	9.9262	PPBV	99
39) VINYL ACETATE	6.571	86	87754	11.3789	PPBV #	75
40) 1,1-DICHLOROETHANE	6.424	63	953472	9.6741	PPBV	99
41) METHYL ETHYL KETONE	6.798	72	230629	12.5008	PPBV #	84
42) cis-1,2-DICHLOROETHYLENE	7.201	96	583866	9.9734	PPBV	94
43) DIISOPROPYL ETHER	7.391	59	237718	11.8560	PPBV	94
44) ETHYL ACETATE	7.422	61	176619	12.5284	PPBV #	1
45) METHYL ACRYLATE	7.409	55	948114	12.5543	PPBV	98
46) CHLOROFORM	7.477	83	1211542	11.4081	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.223	57	866235	10.0371	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1247024	11.2579	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1372682	11.4094	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	801218	10.8575	PPBV		99
52)	BENZENE	8.853	78	1557974	11.0402	PPBV		98
53)	CYCLOHEXANE	9.104	84	613975	10.8904	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.349	71	306612	10.7626	PPBV		92
55)	TRICHLOROETHYLENE	9.887	95	797832	11.0985	PPBV		100
56)	1,2-DICHLOROPROPANE	9.648	63	593320	9.0562	PPBV		99
57)	DIBROMOMETHANE	9.630	174	871066	10.8406	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	1136650	11.1015	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1381772	11.0855	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2319907	10.3884	PPBV		100
61)	1,4-DIOXANE	9.899	88	350755	10.8965	PPBV		94
62)	HEPTANE	10.181	43	766095	9.4348	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	517632	11.2549	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.792	58	471710	11.3302	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1017497	10.1371	PPBV		95
66)	TOLUENE	11.716	92	1121935	10.6362	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	902626	10.4980	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	919315	9.7025	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	631574	11.0269	PPBV		100
71)	2-HEXANONE	12.010	58	684568	11.9712	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	912136	12.0768	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	963989	12.9264	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.144	129	1579609	12.2672	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1280981	12.7862	PPBV		100
76)	OCTANE	12.738	43	1084136	10.4396	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1018658	12.4242	PPBV		99
78)	CHLOROBENZENE	13.582	112	1637921	11.9899	PPBV		100
79)	ETHYLBENZENE	13.980	91	2539898	12.1204	PPBV		100
80)	m,p-XYLENE	14.169	106	1940190	23.4941	PPBV		99
81)	o-XYLENE	14.677	106	958925	12.4007	PPBV		100
82)	STYRENE	14.567	104	1511270	12.5221	PPBV		99
83)	NONANE	14.928	43	1114955	10.6142	PPBV		97
84)	BROMOFORM	14.243	173	1714310	13.4966	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1674189	12.4499	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1150923	10.6445	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2755878	11.6391	PPBV		100
89)	BROMOBENZENE	15.375	77	1347534	10.9390	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	747013	11.3913	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	769370	12.1202	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2824547	13.0416	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2342515	11.6338	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1204069	12.1371	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	534840	13.0829	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2503827	13.3251	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1863396	12.9729	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2290925	13.2334	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1868035	12.0955	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	634126	12.2457	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2573220	12.9495	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	788089	13.4263	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1788603	12.4134	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	738576	12.8477	PPBV		99
105)	HEXACHLOROETHANE	17.607	117	1125990	11.3634	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1828537	13.6527	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1796737	13.4571	PPBV		100
108)	NAPHTHALENE	18.660	128	3954766	13.5904	PPBV		100
110)	TVHC as equiv Pentane	5.078	TIC	2952896	10.2236	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

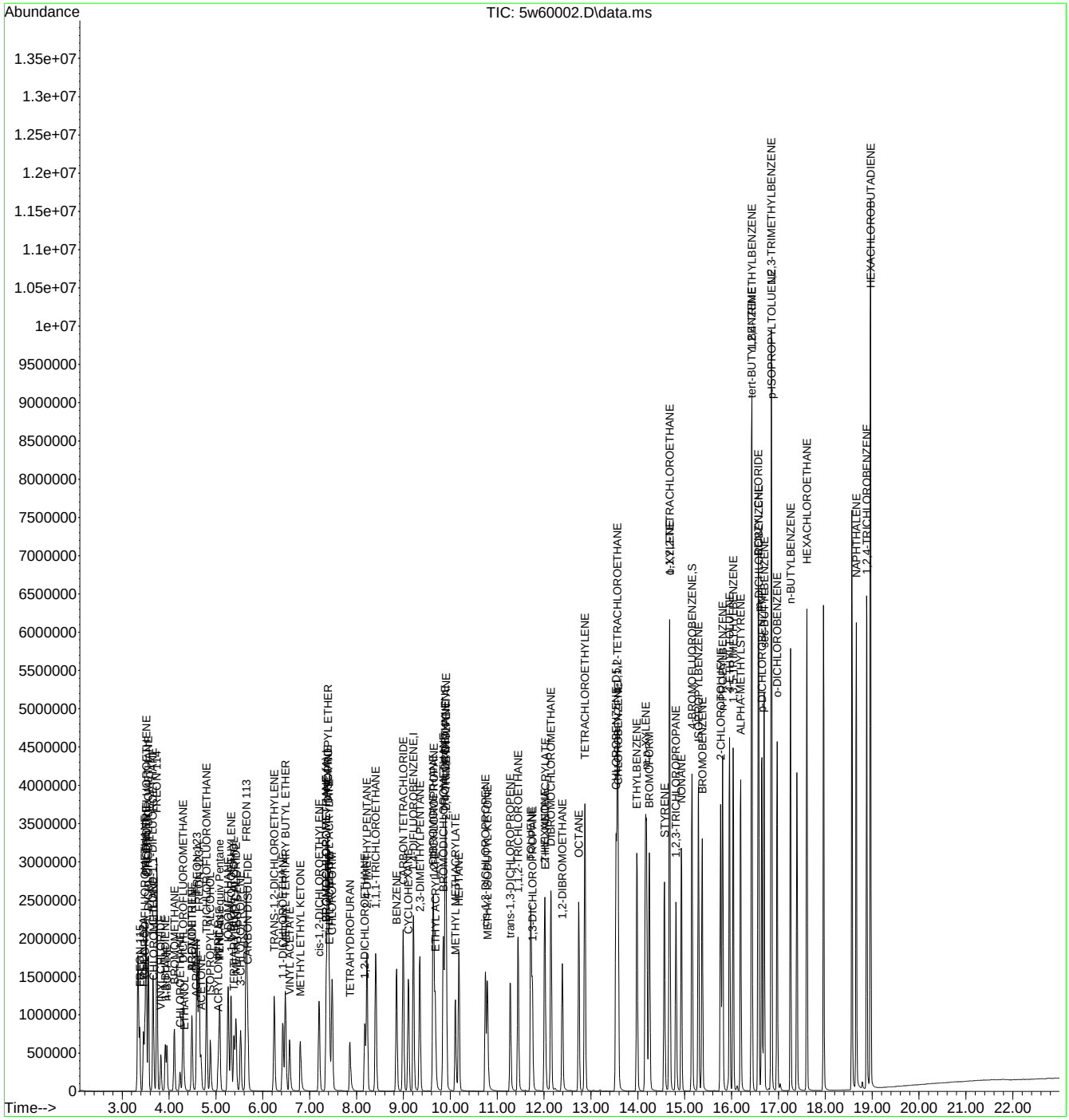
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60002.D
Acq On : 24 Nov 2025 12:02 pm
Operator : benk
Sample : bs Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 22:59:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.348	128	479179	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2114849	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.533	82	1129270	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	479285	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1394712	9.88	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.80%			
Target Compounds						Qvalue
2) FREON 115	3.359	119	349972	10.6600	PPBV	100
3) FREON 152A	3.439	65	316320	8.9009	PPBV	96
4) CHLORODIFLUOROMETHANE	3.470	67	162018	10.8988	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.500	116	828169	11.1258	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.543	85	1534563	11.1904	PPBV	98
7) PROPYLENE	3.494	41	329492	8.9582	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.641	65	1195554	10.7651	PPBV	98
9) FREON 114	3.726	85	1510187	12.0467	PPBV	99
10) CHLOROMETHANE	3.659	52	144738	9.6107	PPBV	99
11) VINYL CHLORIDE	3.812	62	495530	10.6745	PPBV	99
12) 1,3-BUTADIENE	3.904	54	292494	10.4661	PPBV	98
13) n-BUTANE	3.941	43	458598	10.0417	PPBV	98
14) BROMOMETHANE	4.100	94	567948	11.5041	PPBV	99
15) CHLOROETHANE	4.216	64	222236	9.8129	PPBV	98
16) DICHLOROFLUOROMETHANE	4.283	67	1068372	10.8297	PPBV	99
17) ACETONITRILE	4.473	41	251312	9.6326	PPBV	99
18) ACROLEIN	4.565	56	155502	10.4886	PPBV	98
19) FREON 123	4.583	83	1272619	11.1509	PPBV	71
20) FREON 123A	4.626	117	764670	11.6659	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.785	101	1500156	12.8070	PPBV	100
22) ISOPROPYL ALCOHOL	4.864	45	862773	9.1819	PPBV	98
23) ACETONE	4.669	58	186096	9.9021	PPBV	94
24) PENTANE	5.066	42	428867	8.7850	PPBV	99
25) IODOMETHANE	5.250	142	1697179	11.6246	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.311	96	525383	10.2227	PPBV	93
27) CARBON DISULFIDE	5.666	76	1428932	10.6111	PPBV	98
28) ETHANOL	4.314	45	168540	10.7061	PPBV	99
29) BROMOETHENE	4.473	106	568162	11.6690	PPBV	100
30) ACRYLONITRILE	5.036	52	305406	9.6023	PPBV	99
31) METHYLENE CHLORIDE	5.415	84	455621	9.4761	PPBV	92
32) 3-CHLOROPROPENE	5.513	76	224082	9.6815	PPBV	87
33) FREON 113	5.635	151	976601	11.4203	PPBV	96
34) TRANS-1,2-DICHLOROETHY...	6.235	96	544122	10.0977	PPBV	92
35) TERTIARY BUTYL ALCOHOL	5.372	59	930895	9.6884	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1388096	10.2344	PPBV	97
37) TETRAHYDROFURAN	7.850	72	205030	11.0204	PPBV	90
38) HEXANE	7.379	57	739090	9.6611	PPBV	99
39) VINYL ACETATE	6.559	86	87525	11.3126	PPBV #	70
40) 1,1-DICHLOROETHANE	6.418	63	946262	9.5700	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	225201	12.1673	PPBV #	82
42) cis-1,2-DICHLOROETHYLENE	7.195	96	583002	9.9265	PPBV	94
43) DIISOPROPYL ETHER	7.385	59	234562	11.6609	PPBV	94
44) ETHYL ACETATE	7.415	61	171373	12.1171	PPBV #	1
45) METHYL ACRYLATE	7.403	55	931131	12.2897	PPBV	98
46) CHLOROFORM	7.471	83	1190185	11.1709	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.217	57	848788	9.8032	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.407	97	1227800	11.0486	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.988	117	1379991	11.4332	PPBV		100
50)	1,2-DICHLOROETHANE	8.168	62	792023	10.6983	PPBV		100
52)	BENZENE	8.847	78	1523228	10.7509	PPBV		99
53)	CYCLOHEXANE	9.104	84	604407	10.6779	PPBV		92
54)	2,3-DIMETHYLPENTANE	9.343	71	304244	10.6368	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	800597	11.0925	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	596490	9.0682	PPBV		99
57)	DIBROMOMETHANE	9.630	174	889311	11.0234	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1144267	11.1312	PPBV		99
59)	BROMODICHLOROMETHANE	9.844	83	1392832	11.1295	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.905	57	2373633	10.5865	PPBV		100
61)	1,4-DIOXANE	9.893	88	356621	11.0344	PPBV	#	75
62)	HEPTANE	10.181	43	763072	9.3600	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	518879	11.2369	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	478608	11.4499	PPBV		96
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1029199	10.2127	PPBV		95
66)	TOLUENE	11.716	92	1141793	10.7812	PPBV		99
67)	1,3-DICHLOROPROPANE	11.747	76	915403	10.6041	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.276	75	914117	9.6091	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.441	83	642885	11.1796	PPBV		99
71)	2-HEXANONE	12.010	58	687139	11.6329	PPBV		98
72)	ETHYL METHACRYLATE	12.022	69	924260	11.8470	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	965929	12.5393	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.144	129	1569979	11.8035	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1268536	12.2581	PPBV		99
76)	OCTANE	12.738	43	1078013	10.0496	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1040956	12.2912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1676579	11.8814	PPBV		99
79)	ETHYLBENZENE	13.980	91	2558019	11.8175	PPBV		100
80)	m,p-XYLENE	14.169	106	1994813	23.3851	PPBV		99
81)	o-XYLENE	14.677	106	961640	12.0392	PPBV		100
82)	STYRENE	14.567	104	1523708	12.2225	PPBV		99
83)	NONANE	14.928	43	1112505	10.2531	PPBV		98
84)	BROMOFORM	14.249	173	1725817	13.1538	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1686640	12.1424	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1146826	10.2683	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2846838	11.6398	PPBV		100
89)	BROMOBENZENE	15.375	77	1373208	10.7919	PPBV		97
90)	2-CHLOROTOLUENE	15.766	126	767010	11.3232	PPBV		99
91)	n-PROPYLBENZENE	15.809	120	793940	12.1083	PPBV		99
92)	4-ETHYLTOLUENE	15.956	105	2873727	12.8454	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2364619	11.3690	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1214522	11.8520	PPBV		100
95)	tert-BUTYLBENZENE	16.427	134	529036	12.5282	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.433	105	2518685	12.9767	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	1900758	12.8109	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	2352253	13.1542	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1890803	11.8524	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	651887	12.1872	PPBV		98
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2595477	12.6449	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	801855	13.2251	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1781932	11.9726	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	733212	12.3476	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	1190740	11.6336	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	1877270	13.5695	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1809449	13.1201	PPBV		100
108)	NAPHTHALENE	18.660	128	4030657	13.4094	PPBV		100
110)	TVHC as equiv Pentane	5.066	TIC	2846840	9.8225	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

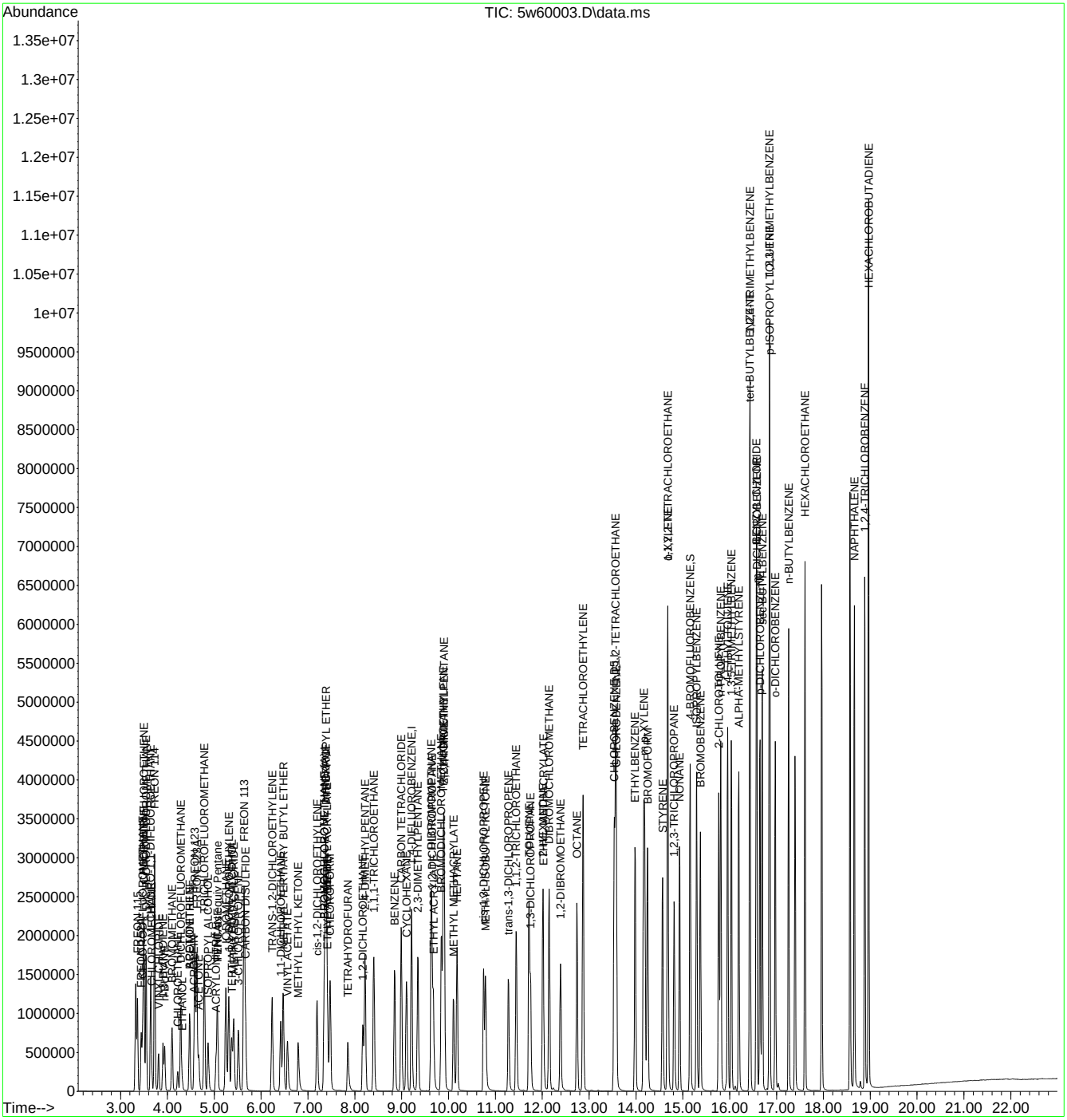
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60003.D
Acq On : 24 Nov 2025 12:39 pm
Operator : benk
Sample : bsd Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 23:00:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 13:58

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025
Data File : 7w18799.D
Acq On : 25 Nov 2025 11:31 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:16:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	120606	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.444	114	573425	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	520859	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	120606	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	402497	9.60	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	173469	11.8565	PPBV		86
3) FREON 152A	1.605	65	73282	9.7088	PPBV		98
4) CHLORODIFLUOROMETHANE	1.615	67	36303	11.0784	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.627	116	180790	11.4660	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	325627m	11.2736	PPBV		
7) PROPYLENE	1.624	41	88570	9.0662	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.679	65	295132	11.4845	PPBV		94
9) FREON 114	1.714	85	292586	9.8274	PPBV		89
10) CHLOROMETHANE	1.685	52	35539	8.5796	PPBV		89
11) VINYL CHLORIDE	1.743	62	128977	8.7933	PPBV		99
12) 1,3-BUTADIENE	1.782	54	99320	8.5728	PPBV		91
13) N-BUTANE	1.798	43	146574	7.4768	PPBV		92
14) BROMOMETHANE	1.856	94	108815	9.5674	PPBV		100
15) CHLOROETHANE	1.901	64	66877	8.4001	PPBV		97
16) DICHLOROFLUOROMETHANE	1.926	67	252105	9.1442	PPBV		99
17) ACETONITRILE	1.991	41	81874	5.9765	PPBV		98
18) ACROLEIN	2.029	56	56536	8.6876	PPBV		95
19) FREON 123	2.045	83	262958	9.4664	PPBV	#	97
20) FREON 123A	2.061	117	195282	11.8666	PPBV		74
21) TRICHLOROFLUOROMETHANE	2.126	101	356352	11.3595	PPBV		99
22) ISOPROPYL ALCOHOL	2.139	45	229210	8.6223	PPBV		97
23) ACETONE	2.068	58	67503	9.2875	PPBV		85
24) PENTANE	2.235	42	107597	7.4735	PPBV		92
25) IODOMETHANE	2.296	142	332085	11.5059	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.325	96	120359	10.0651	PPBV		100
27) CARBON DISULFIDE	2.460	76	289540	8.5336	PPBV		99
28) ETHANOL	1.930	45	50040	7.0706	PPBV		98
29) BROMOETHENE	2.000	106	114644	10.0401	PPBV		99
30) ACRYLONITRILE	2.206	52	94668	9.2625	PPBV		98
31) METHYLENE CHLORIDE	2.361	84	96522	8.2341	PPBV		96
32) 3-CHLOROPROPENE	2.402	76	51027	7.9778	PPBV		91
33) FREON 113	2.457	151	210109	11.6650	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.685	96	117554	8.9350	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.335	59	254773	7.6709	PPBV		96
36) METHYL TERTIARY BUTYL ...	2.788	73	320886	8.5741	PPBV		99
37) TETRAHYDROFURAN	3.463	72	46144	7.6025	PPBV		88
38) HEXANE	3.238	57	254671	10.1026	PPBV		95
39) VINYL ACETATE	2.824	86	28306	7.8690	PPBV		61
40) 1,1-DICHLOROETHANE	2.759	63	230579	9.0658	PPBV		99
41) METHYL ETHYL KETONE	2.920	72	51619	7.5043	PPBV	#	67
42) CIS-1,2-DICHLOROETHENE	3.113	96	123180	9.0261	PPBV		90
43) DIISOPROPYL ETHER	3.241	59	71060	9.9424	PPBV		83
44) ETHYL ACETATE	3.245	61	48242	9.9843	PPBV		87
45) METHYL ACRYLATE	3.235	55	314291	10.3035	PPBV	#	100
46) CHLOROFORM	3.261	83	260525	9.8971	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	294500	10.4380	PPBV		97
48) 1,1,1-TRICHLOROETHANE	3.820	97	306796	11.0586	PPBV		98
49) CARBON TETRACHLORIDE	4.235	117	345023	12.0048	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18799.D
Acq On : 25 Nov 2025 11:31 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:16:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.659	62	222370	10.8670	PPBV		99
51)	BENZENE	4.126	78	319114	7.9027	PPBV		90
53)	CYCLOHEXANE	4.331	84	145762	8.6886	PPBV		77
54)	2,3-DIMETHYLPENTANE	4.582	71	71031	8.4903	PPBV	#	51
55)	TRICHLOROETHENE	5.010	95	172967	9.6718	PPBV		96
56)	1,2-DICHLOROPROPANE	4.778	63	154176	9.7540	PPBV		96
57)	DIBROMOMETHANE	4.743	174	161345	10.5874	PPBV		93
58)	ETHYL ACRYLATE	4.897	55	388348	10.9768	PPBV		99
59)	BROMODICHLOROMETHANE	4.958	83	294459	10.1910	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	788125	10.1793	PPBV		99
61)	1,4-DIOXANE	5.023	88	73933	8.7337	PPBV		86
62)	HEPTANE	5.418	43	243584	9.5282	PPBV		90
63)	METHYL METHACRYLATE	5.315	69	120513	8.3891	PPBV		90
64)	METHYL ISOBUTYL KETONE	6.036	58	150214	9.7985	PPBV		89
65)	CIS-1,3-DICHLOROPROPENE	5.933	75	218264	9.0055	PPBV		98
66)	TOLUENE	7.126	91	438923	9.6400	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	214862	9.4128	PPBV		98
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	203448	9.2908	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.762	83	121093	9.3333	PPBV		91
70)	2-HEXANONE	7.691	58	194754	9.1045	PPBV		89
71)	ETHYL METHACRYLATE	7.827	69	206016	8.5974	PPBV		94
72)	TETRACHLOROETHENE	8.843	164	196947	11.8586	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.656	129	338255	12.8290	PPBV		99
74)	1,2-DIBROMOETHANE	7.997	107	263281	11.2169	PPBV		100
75)	OCTANE	8.994	43	323486	9.4464	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	233381	12.4864	PPBV		99
78)	CHLOROBENZENE	10.042	112	392946	11.0433	PPBV		95
79)	ETHYLBENZENE	10.920	91	614340	10.5363	PPBV		100
80)	M,P-XYLENE	11.347	91	978900	20.7247	PPBV		98
81)	O-XYLENE	12.277	91	499168	10.8885	PPBV		98
82)	STYRENE	12.064	104	368603	10.7251	PPBV		100
83)	NONANE	13.395	43	338470	9.4849	PPBV		89
84)	BROMOFORM	11.158	173	291658	13.2651	PPBV		98
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	317619	9.6721	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.566	75	263935	10.2549	PPBV	#	100
88)	ISOPROPYLBENZENE	13.788	120	196875	11.2972	PPBV		94
89)	BROMOBENZENE	13.649	77	325286	9.7189	PPBV		86
90)	2-CHLOROTOLUENE	14.781	126	176899	10.8838	PPBV		100
91)	N-PROPYLBENZENE	15.128	120	199799	10.8021	PPBV		98
92)	4-ETHYLTOLUENE	15.572	105	707894	10.3418	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	611533	10.7347	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.170	118	306433	10.8461	PPBV		99
95)	TERT-BUTYLBENZENE	16.495	134	146204	10.5264	PPBV		84
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	636361	11.2678	PPBV		96
97)	BENZYL CHLORIDE	16.601	91	458316	10.0451	PPBV		98
98)	M-DICHLOROBENZENE	16.569	146	426454	10.9907	PPBV		99
99)	P-DICHLOROBENZENE	16.662	146	433523	11.3387	PPBV		99
100)	O-DICHLOROBENZENE	16.987	146	405141	11.2561	PPBV		99
101)	SEC-BUTYLBENZENE	16.813	134	183034	11.0668	PPBV		96
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	612428	10.8174	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	200900	10.9287	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	196967	11.2389	PPBV		95
105)	HEXACHLOROETHANE	17.556	117	249499	11.5557	PPBV		99
106)	HEXACHLOROBUTADIENE	18.624	225	317756	12.4134	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.308	180	396682	12.9212	PPBV		99
108)	NAPHTHALENE	18.357	128	996730	14.4730	PPBV		99
110)	TVHC as equiv Pentane	2.235	TIC	536698	7.8841	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18799.D
Acq On : 25 Nov 2025 11:31 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:16:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

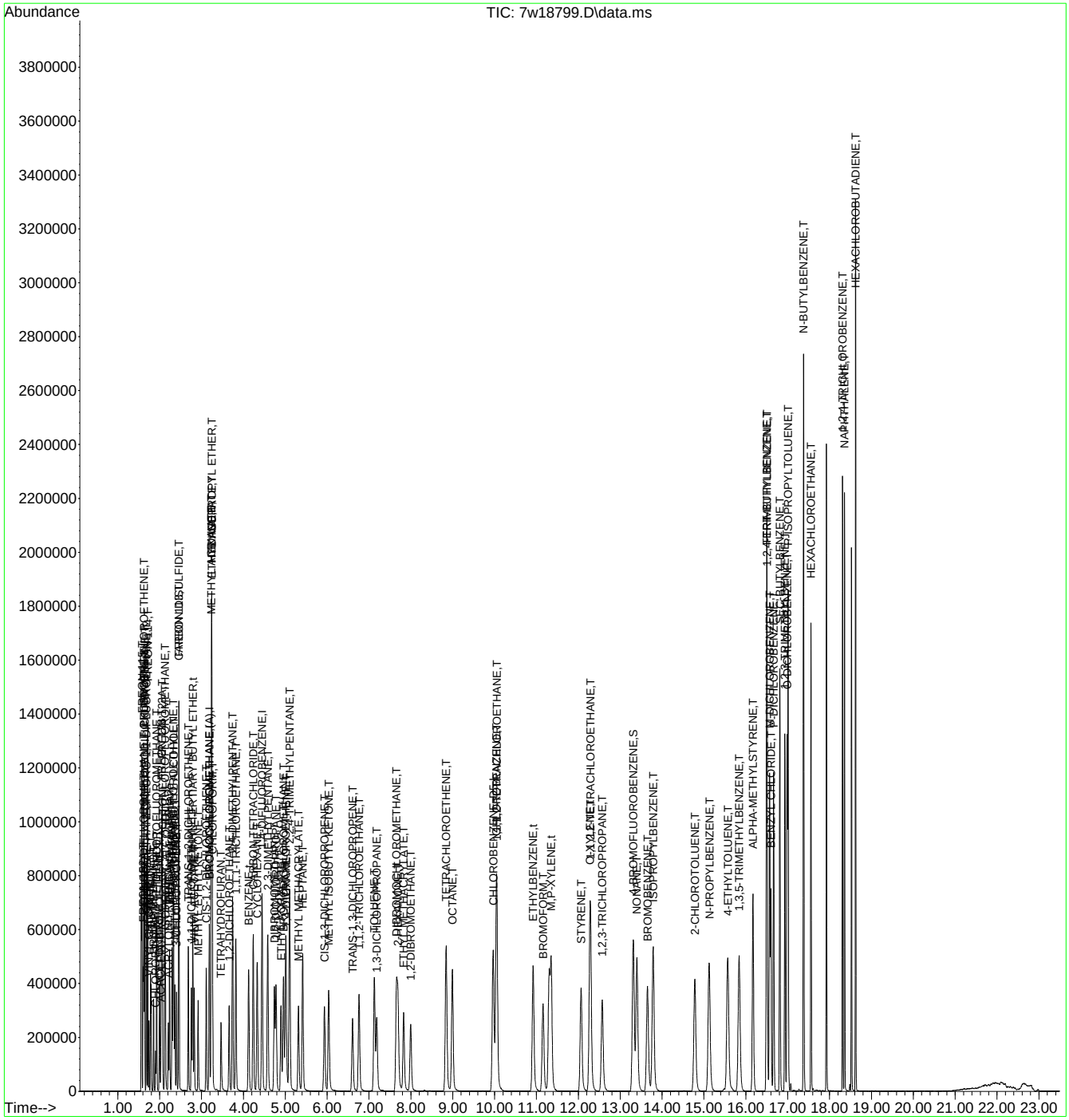
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18799.D
Acq On : 25 Nov 2025 11:31 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:16:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

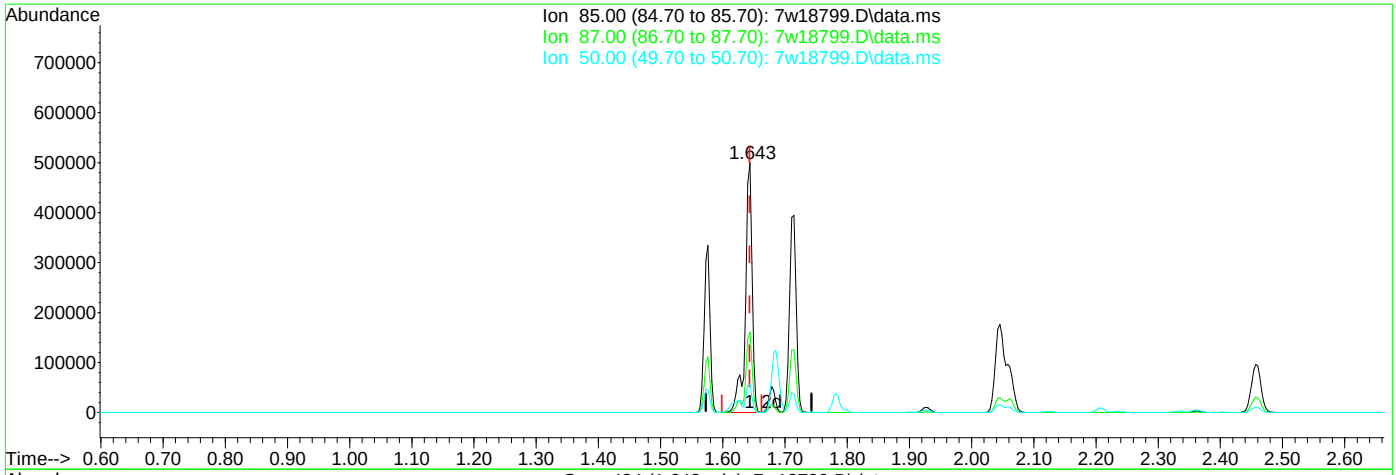
Sample Number: V7W656-BS
Lab FileID: 7W18799.D
Injection Time: 11/25/25 11:31
Method: TO-15
Analyst approved: 11/26/25 12:48 Claire Basilio
Supervisor approved: 11/26/25 13:58 Kanya Veerawat

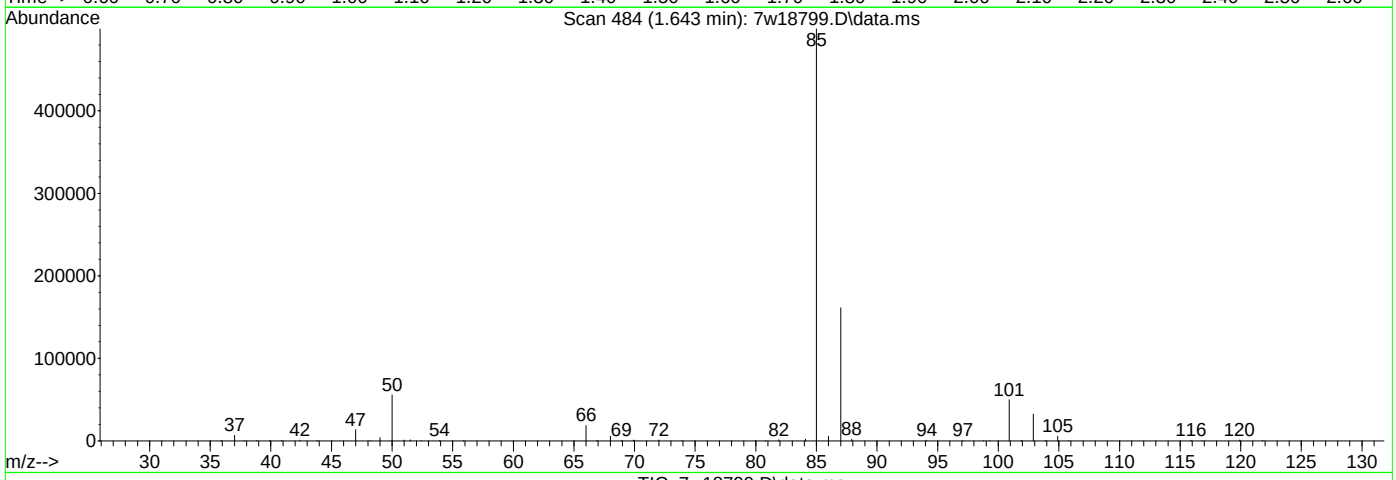
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18799.D
Acq On : 25 Nov 2025 11:31 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:26:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18799.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 13.00PPBV

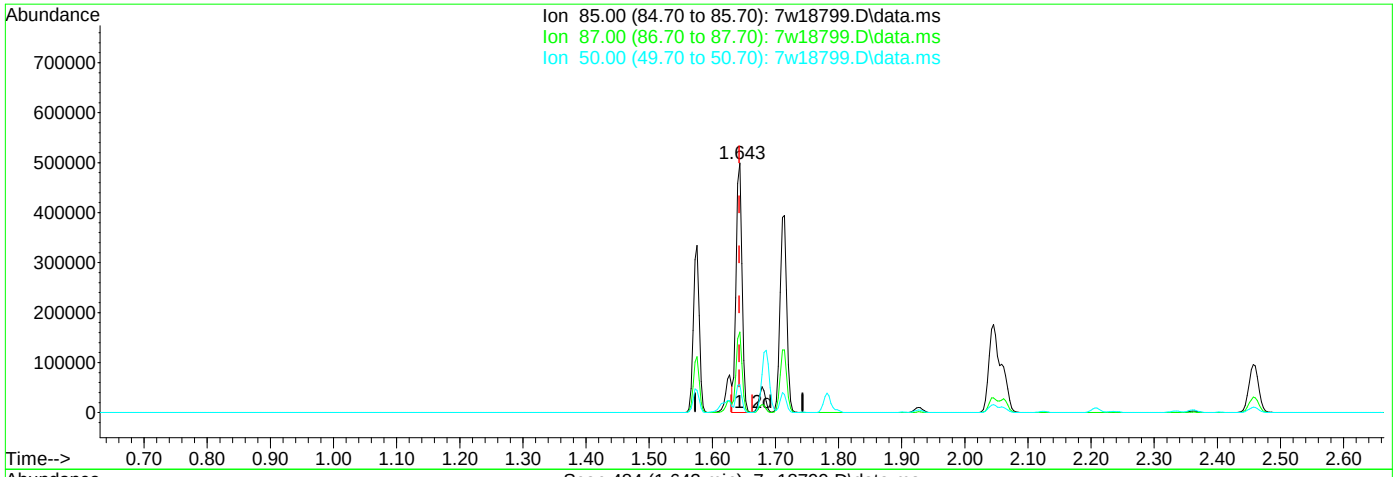
response 375558

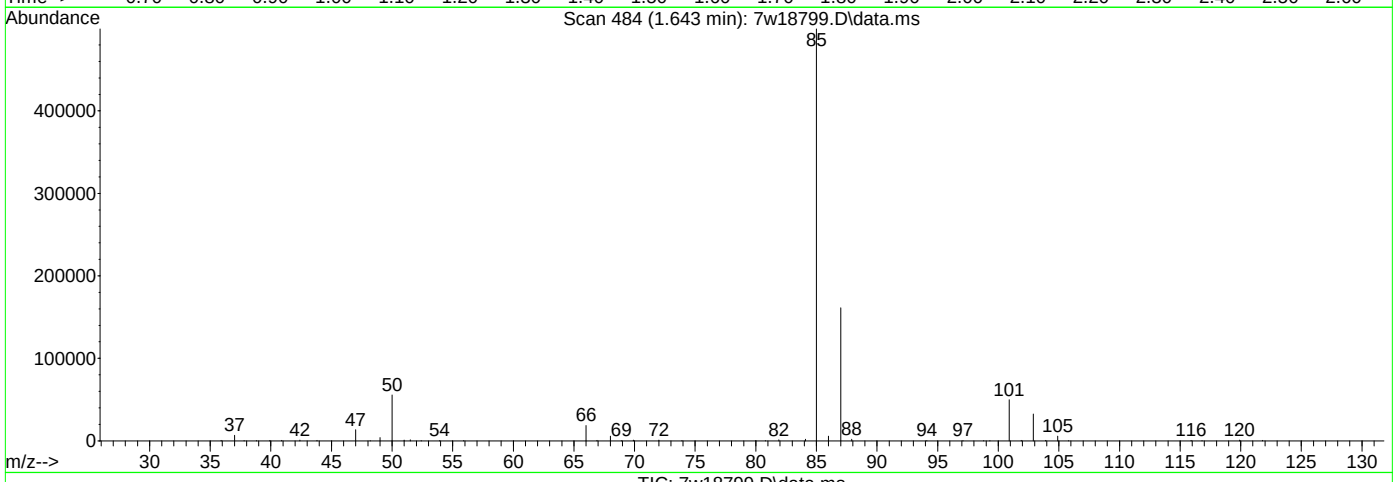
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.50
50.00	19.30	17.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18799.D
Acq On : 25 Nov 2025 11:31 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:26:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18799.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 11.27PPBV m

response 325627

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.48
50.00	19.30	19.96
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 13:58

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025
Data File : 7w18800.D
Acq On : 25 Nov 2025 12:09 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:19:01 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	122225	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	576600	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.962	117	526129	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	122225	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	403342	9.52	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	172123	11.6087	PPBV		85
3) FREON 152A	1.605	65	71455	9.3413	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	36497	10.9901	PPBV		93
5) CHLOROTRIFLUOROETHENE	1.631	116	181035	11.3295	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	331935m	11.3398	PPBV		
7) PROPYLENE	1.628	41	80886	8.1700	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	299150	11.4866	PPBV		94
9) FREON 114	1.714	85	306881	10.1710	PPBV		88
10) CHLOROMETHANE	1.689	52	36953	8.8028	PPBV		84
11) VINYL CHLORIDE	1.747	62	136845	9.2061	PPBV		99
12) 1,3-BUTADIENE	1.785	54	104386	8.8907	PPBV		91
13) N-BUTANE	1.801	43	155841	7.8442	PPBV		93
14) BROMOMETHANE	1.859	94	117261	10.1735	PPBV		99
15) CHLOROETHANE	1.904	64	70493	8.7370	PPBV		96
16) DICHLOROFLUOROMETHANE	1.930	67	264718	9.4745	PPBV		99
17) ACETONITRILE	1.994	41	84365	6.0768	PPBV		100
18) ACROLEIN	2.033	56	57721	8.7522	PPBV		96
19) FREON 123	2.049	83	278105	9.8790	PPBV	#	97
20) FREON 123A	2.065	117	206624	12.3895	PPBV		74
21) TRICHLOROFLUOROMETHANE	2.129	101	369765	11.6309	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	235288	8.7337	PPBV		95
23) ACETONE	2.071	58	70475	9.5679	PPBV		82
24) PENTANE	2.238	42	109693	7.5182	PPBV		93
25) IODOMETHANE	2.300	142	352455	12.0499	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.325	96	126872	10.4693	PPBV		98
27) CARBON DISULFIDE	2.460	76	301438	8.7665	PPBV		98
28) ETHANOL	1.933	45	51039	7.1162	PPBV		98
29) BROMOETHENE	2.004	106	122148	10.5556	PPBV		99
30) ACRYLONITRILE	2.210	52	97037	9.3686	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	103923	8.7480	PPBV		88
32) 3-CHLOROPROPENE	2.406	76	54400	8.3925	PPBV		90
33) FREON 113	2.460	151	218537	11.9722	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.685	96	123001	9.2252	PPBV		99
35) TERTIARY BUTYL ALCOHOL	2.338	59	265160	7.8779	PPBV		96
36) METHYL TERTIARY BUTYL ...	2.788	73	321492	8.4765	PPBV		99
37) TETRAHYDROFURAN	3.467	72	44237	7.1918	PPBV		99
38) HEXANE	3.238	57	223850	8.7623	PPBV		92
39) VINYL ACETATE	2.827	86	28201	7.7359	PPBV		89
40) 1,1-DICHLOROETHANE	2.759	63	253448	9.8330	PPBV		98
41) METHYL ETHYL KETONE	2.920	72	50559	7.2529	PPBV		97
42) CIS-1,2-DICHLOROETHENE	3.113	96	120819	8.7359	PPBV		97
43) DIISOPROPYL ETHER	3.242	59	62887	8.6824	PPBV		72
44) ETHYL ACETATE	3.245	61	43559	8.8957	PPBV		72
45) METHYL ACRYLATE	3.232	55	273275	8.8402	PPBV	#	99
46) CHLOROFORM	3.258	83	250899	9.4051	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	263116	9.2021	PPBV		98
48) 1,1,1-TRICHLOROETHANE	3.820	97	295103	10.4962	PPBV		96
49) CARBON TETRACHLORIDE	4.235	117	329769	11.3221	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18800.D
Acq On : 25 Nov 2025 12:09 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:19:01 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	3.660	62	203367	9.8067	PPBV	99
51) BENZENE	4.126	78	309926	7.5735	PPBV	95
53) CYCLOHEXANE	4.328	84	141118	8.3655	PPBV	87
54) 2,3-DIMETHYLPENTANE	4.579	71	68697	8.1661	PPBV	67
55) TRICHLOROETHENE	5.010	95	171123	9.5160	PPBV	95
56) 1,2-DICHLOROPROPANE	4.782	63	140884	8.8640	PPBV	95
57) DIBROMOMETHANE	4.740	174	163898	10.6957	PPBV	90
58) ETHYL ACRYLATE	4.898	55	338905	9.5265	PPBV	99
59) BROMODICHLOROMETHANE	4.959	83	281340	9.6833	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	706056	9.0691	PPBV	98
61) 1,4-DIOXANE	5.023	88	72375	8.5026	PPBV	91
62) HEPTANE	5.415	43	208459	8.1094	PPBV	92
63) METHYL METHACRYLATE	5.312	69	116401	8.0583	PPBV	96
64) METHYL ISOBUTYL KETONE	6.036	58	134989	8.7569	PPBV	84
65) CIS-1,3-DICHLOROPROPENE	5.933	75	210645	8.6433	PPBV	98
66) TOLUENE	7.129	91	435919	9.5214	PPBV	98
67) 1,3-DICHLOROPROPANE	7.187	76	211041	9.1945	PPBV	98
68) TRANS-1,3-DICHLOROPROPENE	6.608	75	196534	8.9257	PPBV	95
69) 1,1,2-TRICHLOROETHANE	6.762	83	119469	9.1574	PPBV	91
70) 2-HEXANONE	7.692	58	179856	8.3617	PPBV	84
71) ETHYL METHACRYLATE	7.827	69	202576	8.4073	PPBV	97
72) TETRACHLOROETHENE	8.839	164	202263	12.1117	PPBV	99
73) DIBROMOCHLOROMETHANE	7.656	129	333286	12.5710	PPBV	100
74) 1,2-DIBROMOETHANE	7.994	107	262582	11.1255	PPBV	99
75) OCTANE	8.991	43	287788	8.3577	PPBV	94
77) 1,1,1,2-TETRACHLOROETHANE	10.052	131	231712	12.2729	PPBV	98
78) CHLOROBENZENE	10.039	112	396801	11.0399	PPBV	93
79) ETHYLBENZENE	10.917	91	611532	10.3831	PPBV	99
80) M,P-XYLENE	11.351	91	973340	20.4006	PPBV	98
81) O-XYLENE	12.283	91	494987	10.6891	PPBV	99
82) STYRENE	12.064	104	372210	10.7216	PPBV	100
83) NONANE	13.402	43	308932	8.5705	PPBV	87
84) BROMOFORM	11.158	173	291742	13.1360	PPBV	98
85) 1,1,2,2-TETRACHLOROETHANE	12.286	83	315211	9.5026	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	12.572	75	258937	9.9600	PPBV	100
88) ISOPROPYLBENZENE	13.781	120	196303	11.1515	PPBV	93
89) BROMOBENZENE	13.650	77	318905	9.4328	PPBV	82
90) 2-CHLOROTOLUENE	14.781	126	183823	11.1965	PPBV	99
91) N-PROPYLBENZENE	15.119	120	209055	11.1894	PPBV	98
92) 4-ETHYLTOLUENE	15.569	105	736372	10.6501	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	15.839	105	629024	10.9312	PPBV	99
94) ALPHA-METHYLSTYRENE	16.174	118	316254	11.0816	PPBV	99
95) TERT-BUTYLBENZENE	16.495	134	151427	10.7932	PPBV	85
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	647041	11.3422	PPBV	95
97) BENZYL CHLORIDE	16.598	91	469488	10.1869	PPBV	98
98) M-DICHLOROBENZENE	16.569	146	439283	11.2079	PPBV	99
99) P-DICHLOROBENZENE	16.662	146	444783	11.5167	PPBV	99
100) O-DICHLOROBENZENE	16.987	146	418435	11.5090	PPBV	99
101) SEC-BUTYLBENZENE	16.813	134	189731	11.3568	PPBV	95
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	626633	10.9574	PPBV	99
103) P-ISOPROPYLTOLUENE	17.010	134	207084	11.1523	PPBV	87
104) N-BUTYLBENZENE	17.376	134	200793	11.3424	PPBV	96
105) HEXACHLOROETHANE	17.556	117	253996	11.6462	PPBV	99
106) HEXACHLOROBUTADIENE	18.620	225	318869	12.3321	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.309	180	410907	13.2504	PPBV	98
108) NAPHTHALENE	18.357	128	1051931	15.1215	PPBV	100
110) TVHC as equiv Pentane	2.238	TIC	559365	8.1083	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18800.D
Acq On : 25 Nov 2025 12:09 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:19:01 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

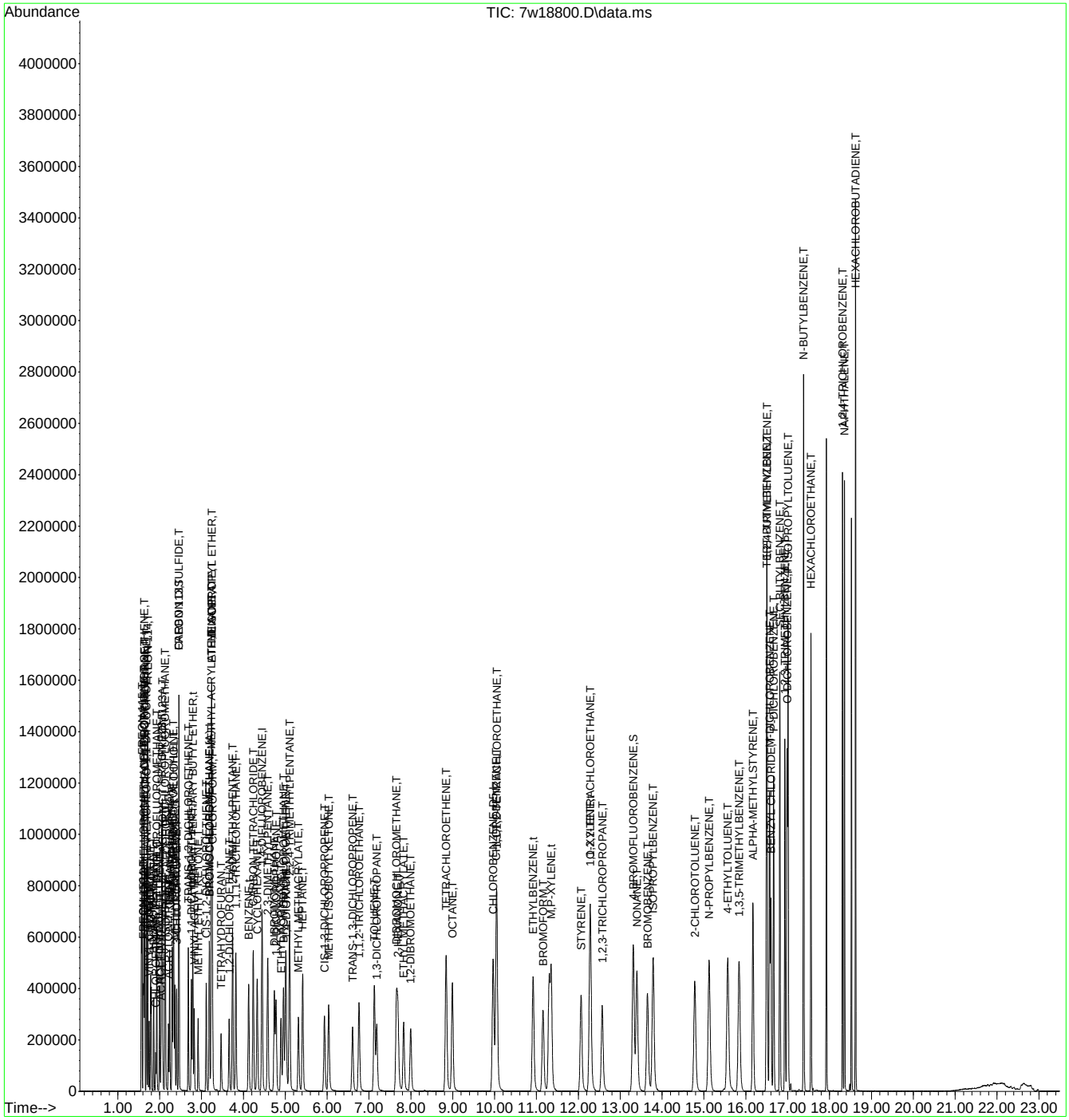
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18800.D
Acq On : 25 Nov 2025 12:09 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:19:01 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V7W656-BSD
Lab FileID: 7W18800.D
Injection Time: 11/25/25 12:09

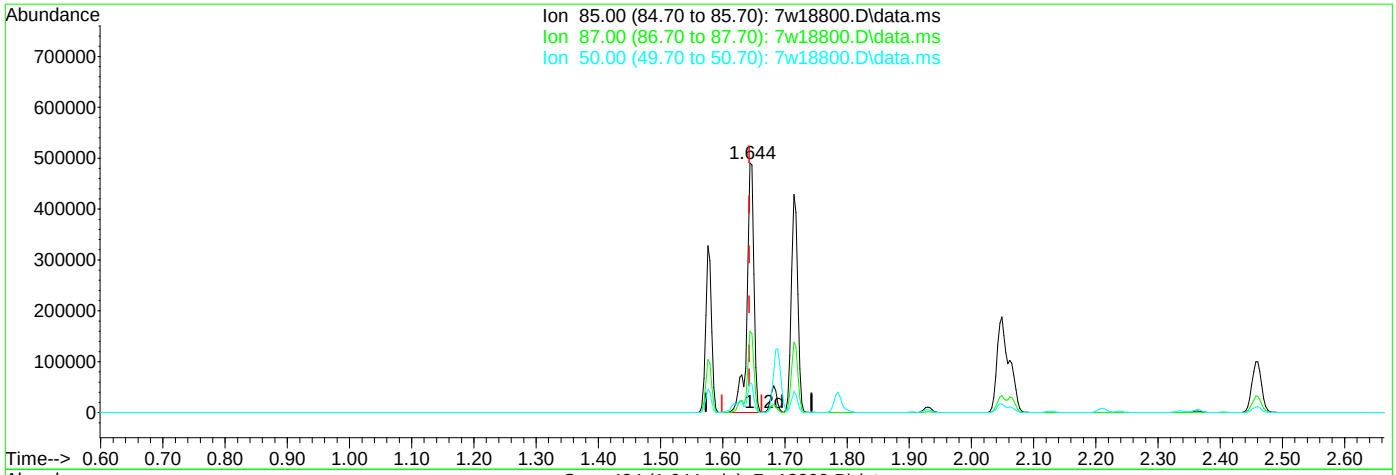
Method: TO-15
Analyst approved: 11/26/25 12:48 Claire Basilio
Supervisor approved: 11/26/25 13:58 Kanya Veerawat

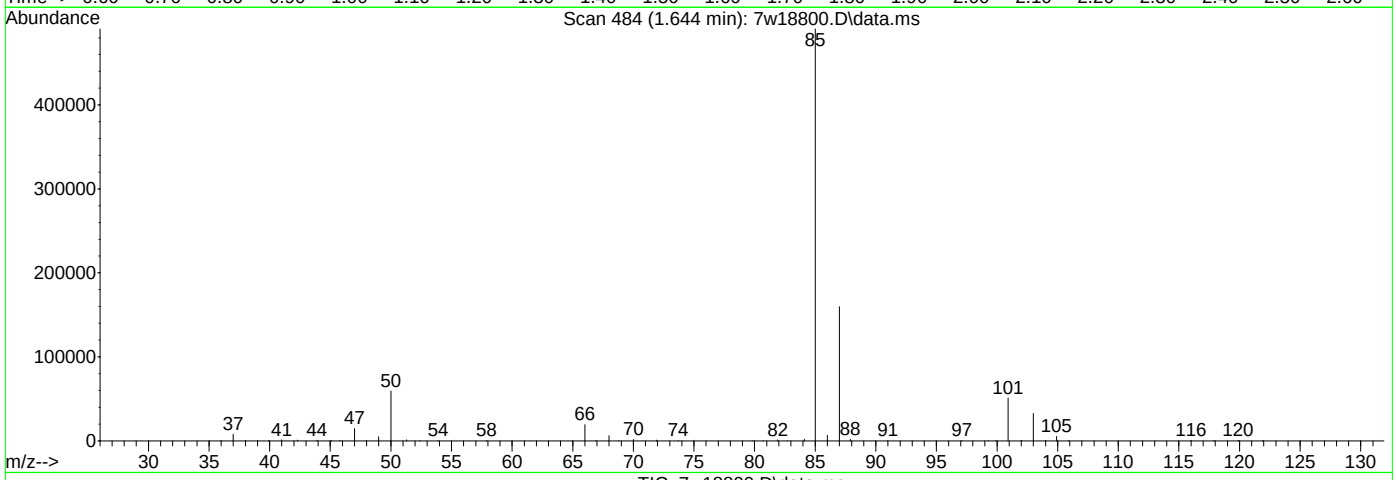
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18800.D
Acq On : 25 Nov 2025 12:09 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:27:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18800.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 13.10PPBV

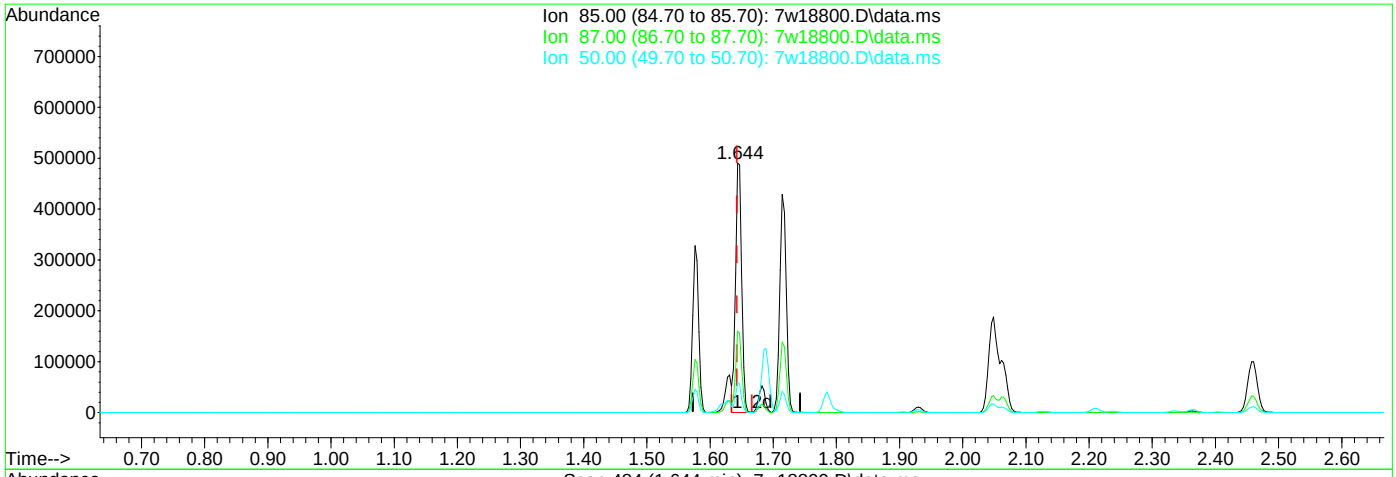
response 383447

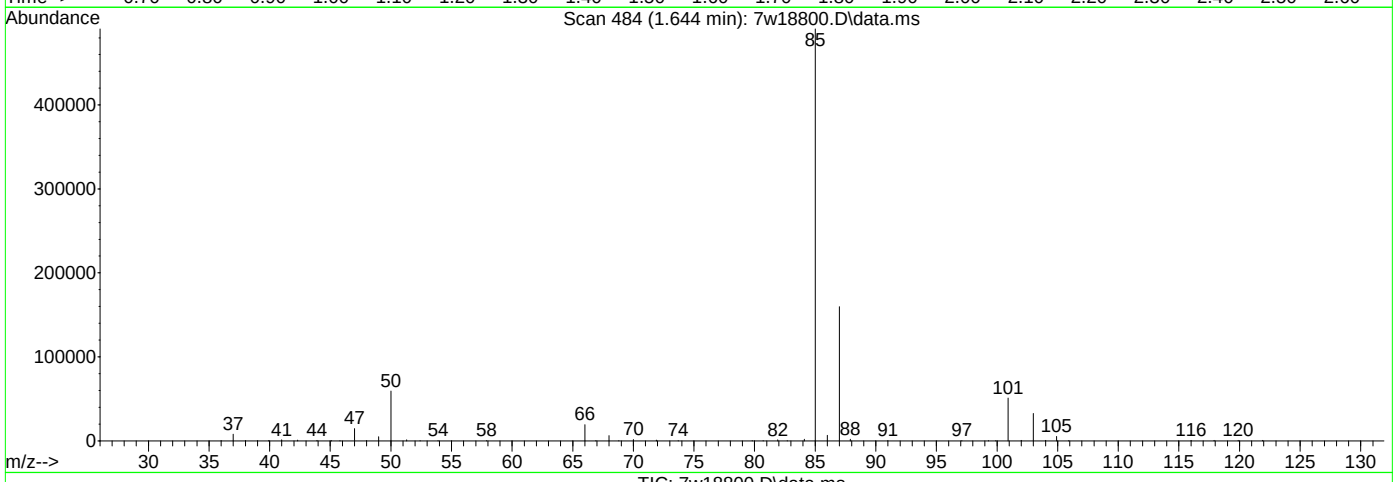
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.54
50.00	19.30	16.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18800.D
Acq On : 25 Nov 2025 12:09 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:27:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18800.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 11.34PPBV m

response 331935

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.59
50.00	19.30	19.56
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	117537	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	576557	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	537853	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	117431	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	424524	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	166464	11.6748	PPBV		98
3) FREON 152A	1.605	65	78132	10.6216	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	34082	10.6722	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	177991	11.5833	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	301836m	10.7228	PPBV		
7) PROPYLENE	1.627	41	94847	9.9623	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	251622	10.0470	PPBV		99
9) FREON 114	1.717	85	293840	10.1272	PPBV		98
10) CHLOROMETHANE	1.689	52	33784	8.3689	PPBV		98
11) VINYL CHLORIDE	1.746	62	120764m	8.4483	PPBV		
12) 1,3-BUTADIENE	1.785	54	95122	8.4248	PPBV		99
13) N-BUTANE	1.801	43	167061	8.7444	PPBV		99
14) BROMOMETHANE	1.859	94	106278	9.5883	PPBV		100
15) CHLOROETHANE	1.907	64	66166	8.5278	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	249903	9.3010	PPBV		100
17) ACETONITRILE	1.997	41	94569	7.0834	PPBV		100
18) ACROLEIN	2.036	56	54010	8.5161	PPBV		99
19) FREON 123	2.049	83	274608	10.1439	PPBV		99
20) FREON 123A	2.068	117	172350	10.7466	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	314396	10.2837	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	232486	8.9738	PPBV		96
23) ACETONE	2.074	58	62370	8.8053	PPBV		96
24) PENTANE	2.242	42	120801	8.6097	PPBV		97
25) IODOMETHANE	2.303	142	308750	10.9767	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	116988	10.0387	PPBV		91
27) CARBON DISULFIDE	2.467	76	301097	9.1059	PPBV		98
28) ETHANOL	1.933	45	60214	8.7304	PPBV		99
29) BROMOETHENE	2.007	106	110839	9.9603	PPBV		100
30) ACRYLONITRILE	2.213	52	91814	9.2178	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	103212	9.0347	PPBV		89
32) 3-CHLOROPROPENE	2.409	76	54741	8.7819	PPBV		93
33) FREON 113	2.463	151	196110	11.1721	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	113209	8.8294	PPBV		92
35) TERTIARY BUTYL ALCOHOL	2.341	59	232200	7.1738	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.795	73	349229	9.5751	PPBV		99
37) TETRAHYDROFURAN	3.470	72	56702	9.5859	PPBV		93
38) HEXANE	3.242	57	233347	9.4984	PPBV		99
39) VINYL ACETATE	2.830	86	34231	9.7646	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	234708	9.4691	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	64142	9.5684	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	134876	10.1412	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	65603	9.4186	PPBV		95
44) ETHYL ACETATE	3.251	61	45389	9.6391	PPBV		99
45) METHYL ACRYLATE	3.238	55	284596	9.5736	PPBV	#	100
46) CHLOROFORM	3.264	83	265353	10.3437	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	270843	9.8502	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279613	10.3419	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	300115	10.7149	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.663	62	187132	9.3837	PPBV		98
51) BENZENE	4.129	78	385720	9.8016	PPBV		98
53) CYCLOHEXANE	4.335	84	174716	10.3579	PPBV		97
54) 2,3-DIMETHYLPENTANE	4.586	71	88179	10.4827	PPBV		97
55) TRICHLOROETHENE	5.016	95	179264	9.9695	PPBV		98
56) 1,2-DICHLOROPROPANE	4.785	63	156598	9.8534	PPBV		98
57) DIBROMOMETHANE	4.746	174	193825	12.6496	PPBV		82
58) ETHYL ACRYLATE	4.901	55	350540	9.8543	PPBV		99
59) BROMODICHLOROMETHANE	4.962	83	297958	10.2561	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.106	57	729930	9.3764	PPBV		100
61) 1,4-DIOXANE	5.029	88	88045	10.3442	PPBV		96
62) HEPTANE	5.418	43	246005	9.5707	PPBV		98
63) METHYL METHACRYLATE	5.319	69	143934	9.9651	PPBV		94
64) METHYL ISOBUTYL KETONE	6.042	58	136749	8.8717	PPBV		98
65) CIS-1,3-DICHLOROPROPENE	5.939	75	247041	10.1375	PPBV		96
66) TOLUENE	7.132	91	482354	10.5364	PPBV		99
67) 1,3-DICHLOROPROPANE	7.190	76	245416	10.6929	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	6.608	75	214544	9.7443	PPBV		96
69) 1,1,2-TRICHLOROETHANE	6.766	83	140276	10.7531	PPBV		97
70) 2-HEXANONE	7.695	58	183274	8.5213	PPBV		98
71) ETHYL METHACRYLATE	7.833	69	246125	10.2154	PPBV		95
72) TETRACHLOROETHENE	8.849	164	215940	12.9316	PPBV		87
73) DIBROMOCHLOROMETHANE	7.659	129	310840	11.7252	PPBV		99
74) 1,2-DIBROMOETHANE	8.000	107	266221	11.2805	PPBV	#	99
75) OCTANE	8.997	43	341515	9.9187	PPBV		98
77) 1,1,1,2-TETRACHLOROETHANE	10.058	131	213785	11.0766	PPBV		98
78) CHLOROBENZENE	10.045	112	396327	10.7864	PPBV		99
79) ETHYLBENZENE	10.926	91	655869	10.8932	PPBV		100
80) M,P-XYLENE	11.351	91	1023644	20.9873	PPBV		97
81) O-XYLENE	12.280	91	519895	10.9823	PPBV		99
82) STYRENE	12.068	104	395063	11.1318	PPBV		100
83) NONANE	13.399	43	360332	9.7785	PPBV		98
84) BROMOFORM	11.161	173	350108	15.4204	PPBV		97
85) 1,1,2,2-TETRACHLOROETHANE	12.296	83	367207	10.8288	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	12.576	75	288503	10.8553	PPBV		100
88) ISOPROPYLBENZENE	13.791	120	195144	10.8441	PPBV		98
89) BROMOBENZENE	13.656	77	359353	10.3975	PPBV		87
90) 2-CHLOROTOLUENE	14.788	126	178666	10.6452	PPBV		100
91) N-PROPYLBENZENE	15.129	120	203706	10.6654	PPBV		100
92) 4-ETHYLTOLUENE	15.569	105	763752	10.8053	PPBV		98
93) 1,3,5-TRIMETHYLBENZENE	15.846	105	637092	10.8300	PPBV		99
94) ALPHA-METHYLSTYRENE	16.170	118	310988	10.6596	PPBV		99
95) TERT-BUTYLBENZENE	16.498	134	146662	10.2257	PPBV		90
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	648383	11.1180	PPBV		100
97) BENZYL CHLORIDE	16.598	91	467740	9.9277	PPBV		99
98) M-DICHLOROBENZENE	16.569	146	423012	10.5575	PPBV		97
99) P-DICHLOROBENZENE	16.662	146	425526	10.7779	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	395575	10.6431	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	177791	10.4101	PPBV		91
102) 1,2,3-TRIMETHYLBENZENE	16.936	105	621853	10.6368	PPBV		100
103) P-ISOPROPYLTOLUENE	17.013	134	195199	10.2831	PPBV		88
104) N-BUTYLBENZENE	17.379	134	192735	10.6499	PPBV		93
105) HEXACHLOROETHANE	17.559	117	257445	11.5470	PPBV	#	84
106) HEXACHLOROBUTADIENE	18.630	225	500479	18.9339	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.315	180	517111	16.3117	PPBV		97
108) NAPHTHALENE	18.363	128	993777	13.9741	PPBV		99
110) TVHC as equiv Pentane	2.242	TIC	579819	8.7479	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

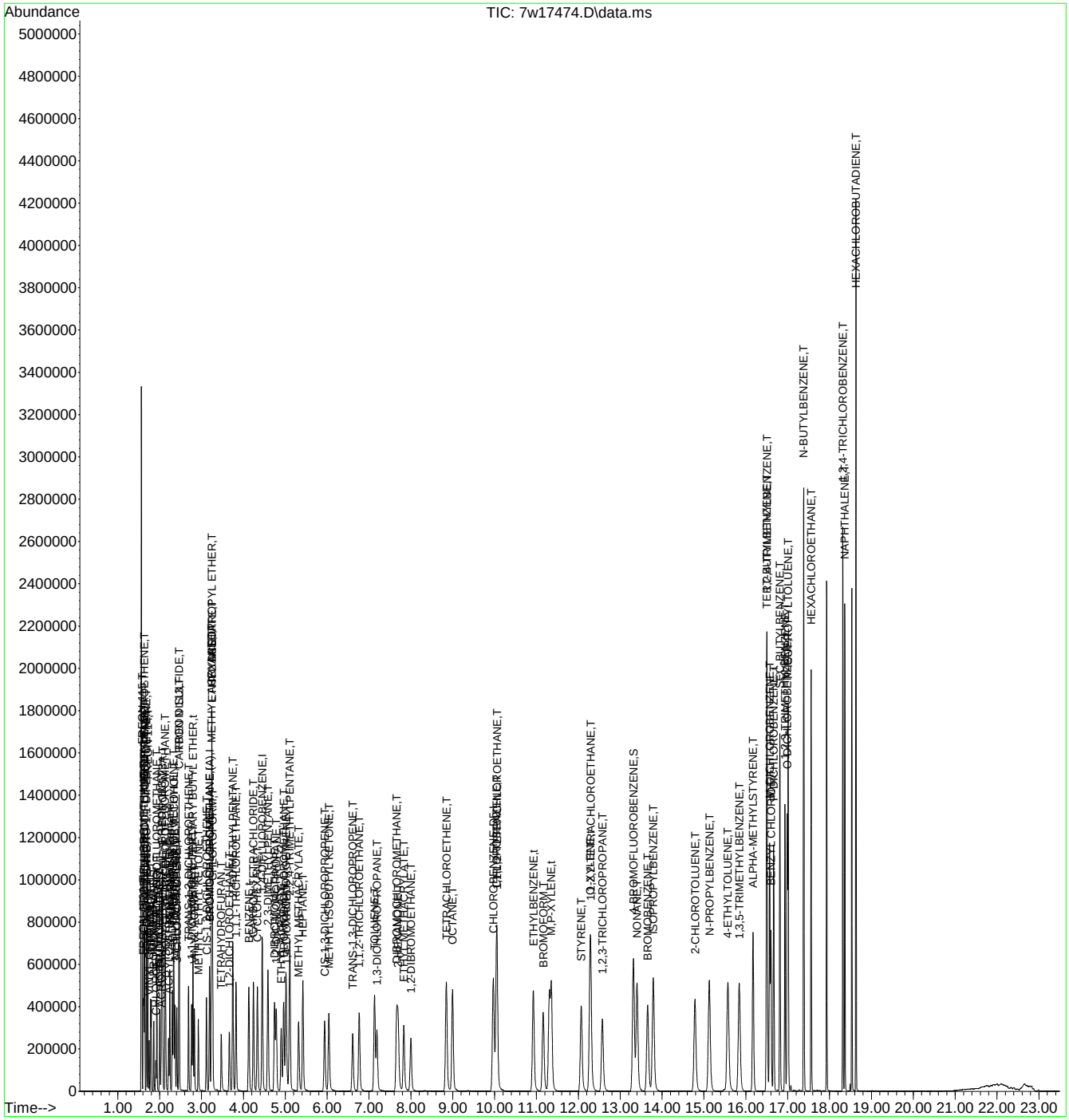
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:10:57 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

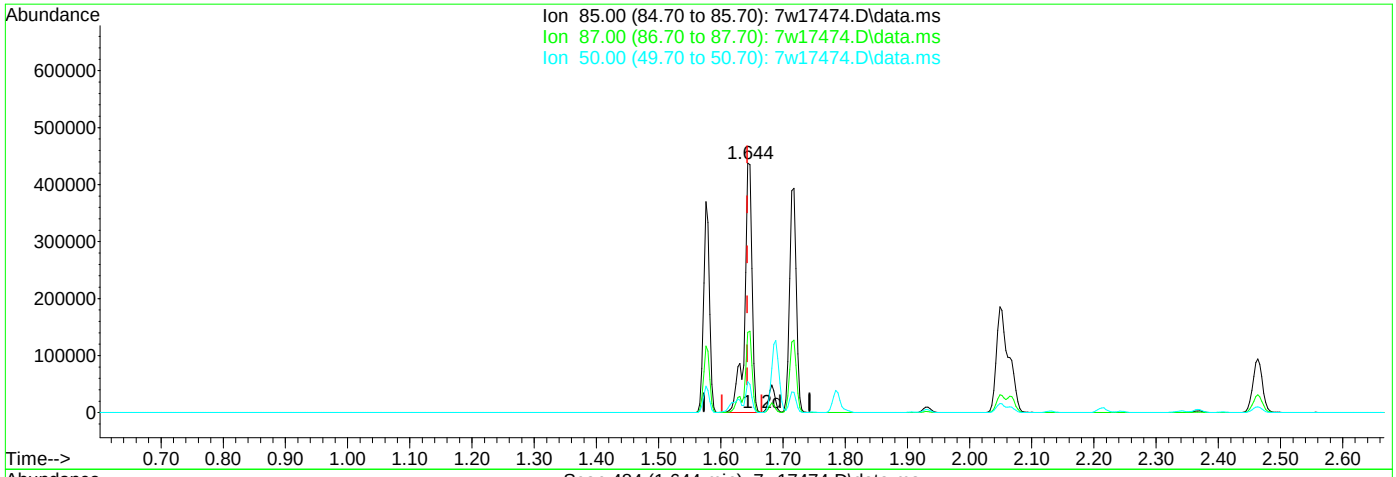
Sample Number: V7W613-BS
Lab FileID: 7W17474.D
Injection Time: 09/26/25 11:54
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

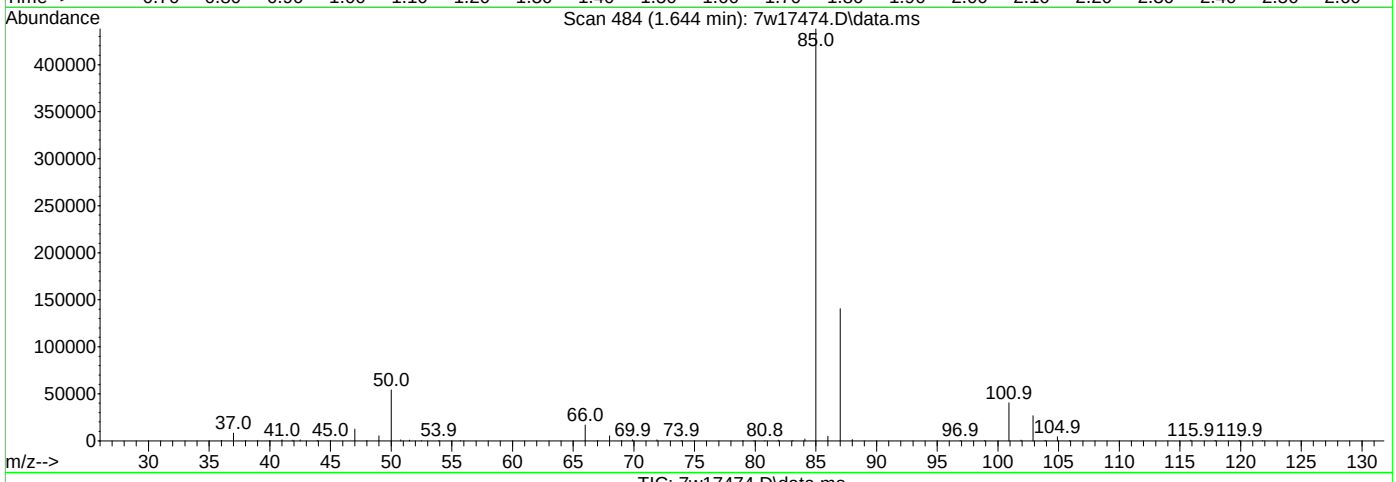
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.85PPBV

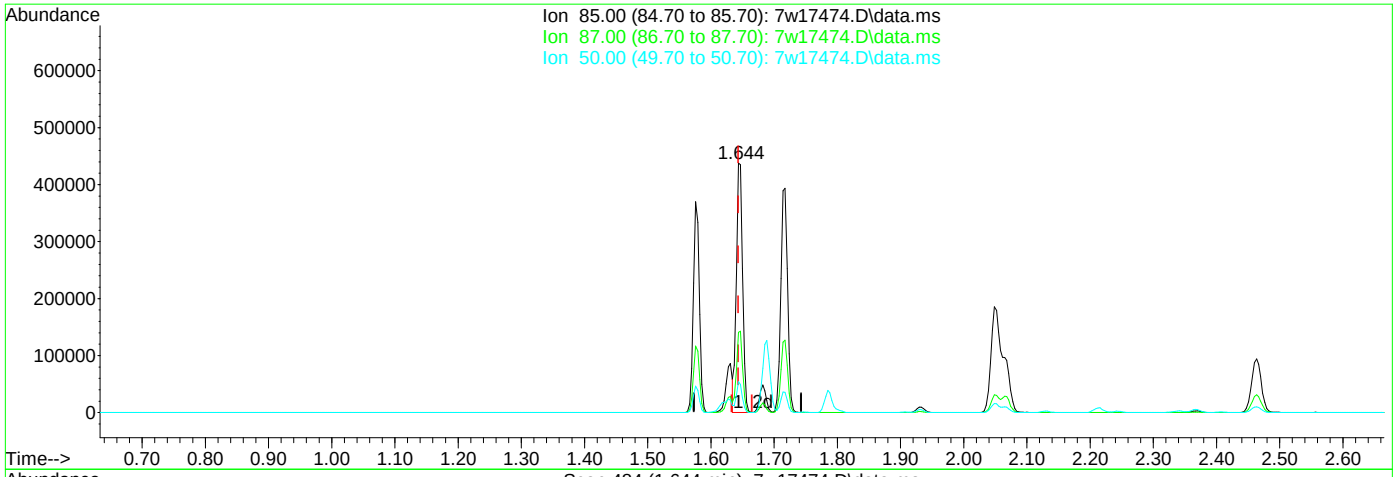
response 361845

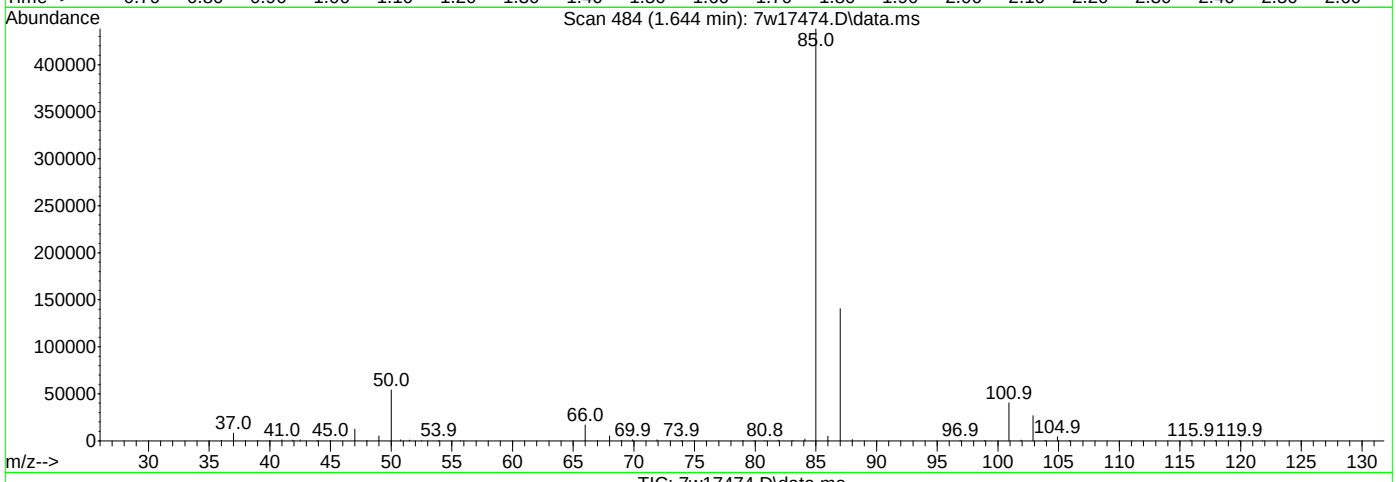
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.38
50.00	19.30	17.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.72PPBV m

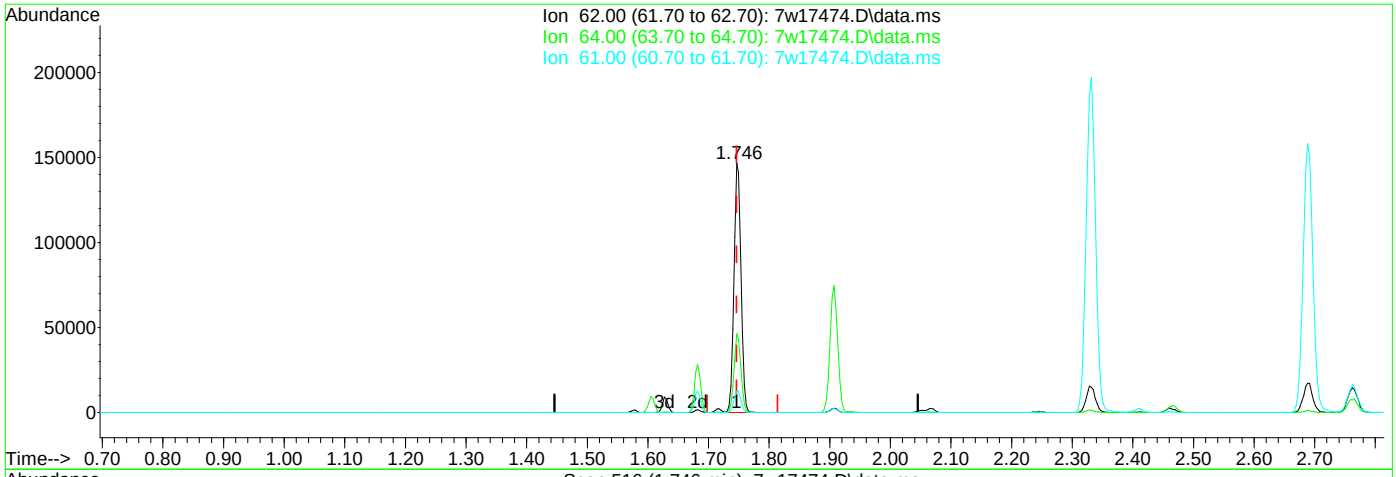
response 301836

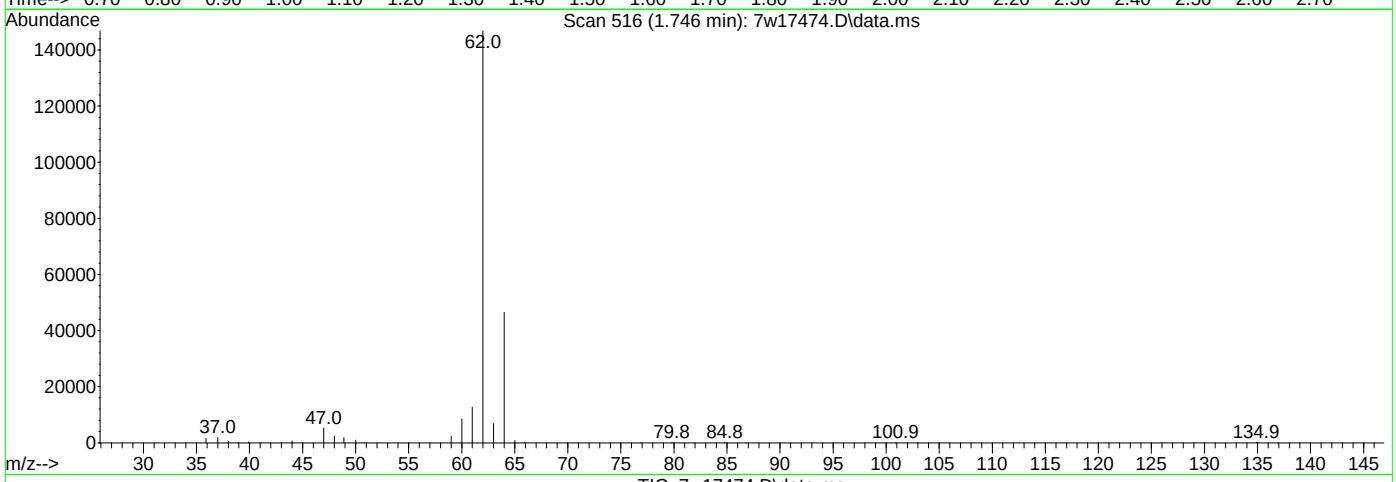
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.81
50.00	19.30	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.57PPBV

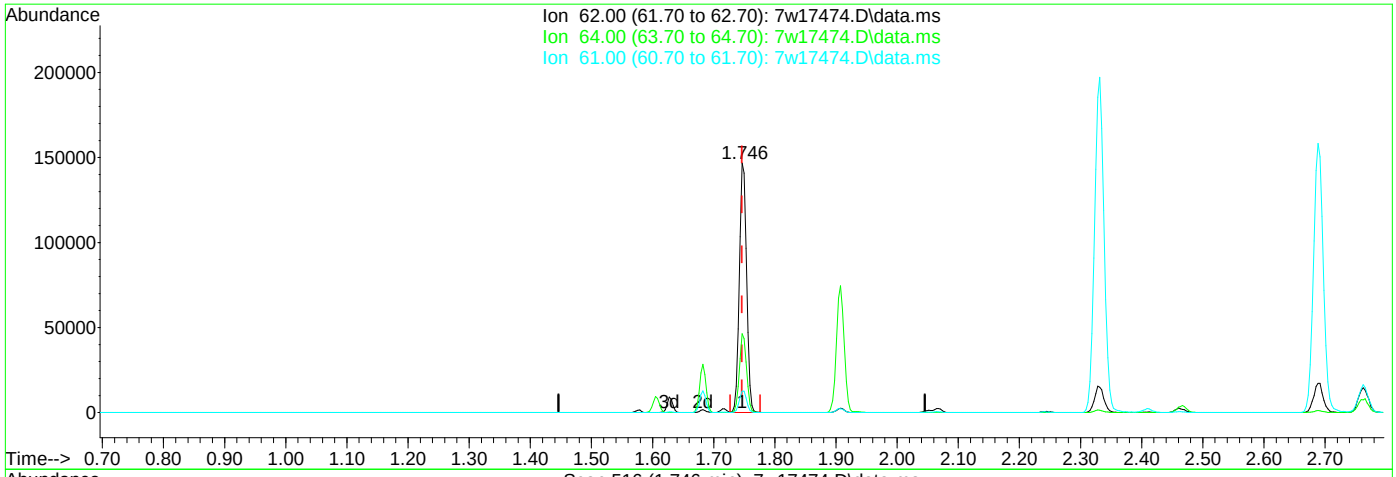
response 122511

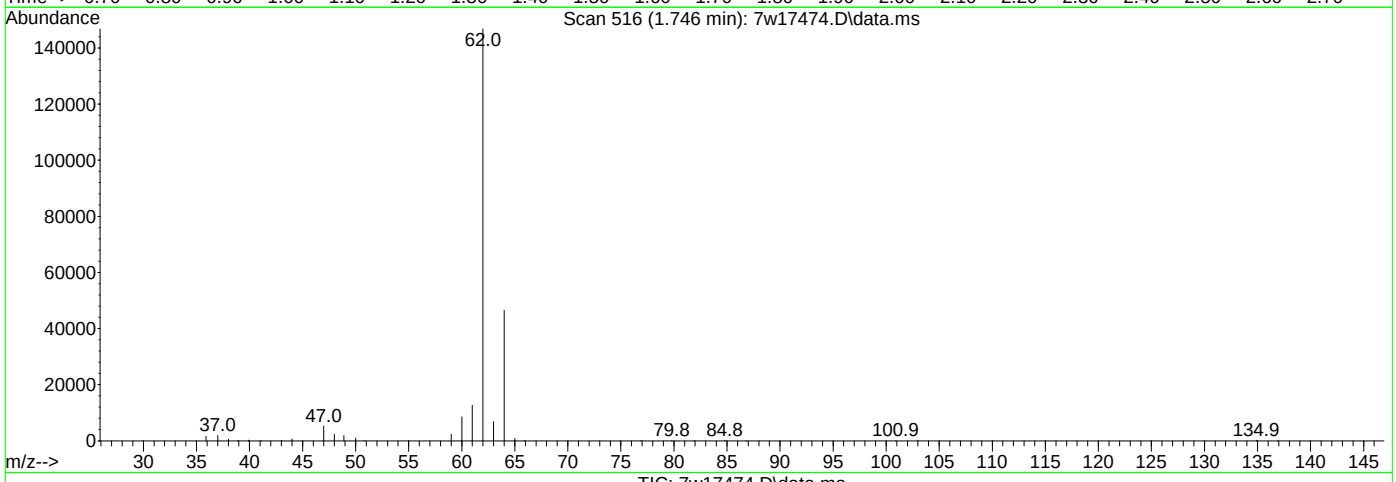
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	30.89
61.00	8.10	8.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17474.D
Acq On : 26 Sep 2025 11:54 am
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:08 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17474.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.45PPBV m

response 120764

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.33
61.00	8.10	9.03
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.194	128	119187	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	585415	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	537645	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.194	128	119187	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	430611	9.95	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	161488	11.1690	PPBV		98
3) FREON 152A	1.605	65	75759	10.1564	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	33425	10.3216	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.628	116	174440	11.1950	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.644	85	291674m	10.2183	PPBV		
7) PROPYLENE	1.628	41	92093	9.5391	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.683	65	249388	9.8200	PPBV		98
9) FREON 114	1.715	85	289184	9.8288	PPBV		99
10) CHLOROMETHANE	1.686	52	33293	8.1331	PPBV		96
11) VINYL CHLORIDE	1.747	62	119109m	8.2172	PPBV		
12) 1,3-BUTADIENE	1.785	54	92631	8.0906	PPBV		97
13) N-BUTANE	1.801	43	164144	8.4728	PPBV		99
14) BROMOMETHANE	1.859	94	104635	9.3094	PPBV		100
15) CHLOROETHANE	1.908	64	65277	8.2967	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.930	67	246489	9.0469	PPBV		100
17) ACETONITRILE	1.998	41	92543	6.8357	PPBV		99
18) ACROLEIN	2.036	56	52535	8.1689	PPBV		96
19) FREON 123	2.049	83	272708	9.9342	PPBV		99
20) FREON 123A	2.065	117	170374	10.4763	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.129	101	311447	10.0462	PPBV		100
22) ISOPROPYL ALCOHOL	2.146	45	230027	8.7560	PPBV		97
23) ACETONE	2.075	58	61137	8.5117	PPBV		92
24) PENTANE	2.242	42	118430	8.3239	PPBV		97
25) IODOMETHANE	2.303	142	303085	10.6261	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	115657	9.7871	PPBV		90
27) CARBON DISULFIDE	2.467	76	301432m	8.9898	PPBV		
28) ETHANOL	1.933	45	59051	8.4432	PPBV		99
29) BROMOETHENE	2.007	106	109124	9.6704	PPBV		100
30) ACRYLONITRILE	2.213	52	91360	9.0453	PPBV		97
31) METHYLENE CHLORIDE	2.367	84	102065	8.8106	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	54180	8.5716	PPBV		94
33) FREON 113	2.464	151	195458	10.9808	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.689	96	111522	8.5775	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.342	59	233489	7.1138	PPBV		92
36) METHYL TERTIARY BUTYL ...	2.795	73	345519	9.3422	PPBV		99
37) TETRAHYDROFURAN	3.473	72	55023	9.1733	PPBV		95
38) HEXANE	3.242	57	229499	9.2124	PPBV		98
39) VINYL ACETATE	2.830	86	34282	9.6437	PPBV		86
40) 1,1-DICHLOROETHANE	2.763	63	229340	9.1245	PPBV		99
41) METHYL ETHYL KETONE	2.924	72	63545	9.3481	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.117	96	132692	9.8389	PPBV		95
43) DIISOPROPYL ETHER	3.248	59	63868	9.0426	PPBV		99
44) ETHYL ACETATE	3.248	61	45705	9.5719	PPBV		94
45) METHYL ACRYLATE	3.239	55	278453	9.2373	PPBV	#	100
46) CHLOROFORM	3.264	83	261849	10.0658	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.747	57	269368	9.6609	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	276376	10.0807	PPBV		97
49) CARBON TETRACHLORIDE	4.242	117	298654	10.5152	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	186432	9.2192	PPBV		98
51)	BENZENE	4.129	78	383912	9.6206	PPBV		97
53)	CYCLOHEXANE	4.335	84	173211	10.1133	PPBV		96
54)	2,3-DIMETHYLPENTANE	4.586	71	88496	10.3612	PPBV		94
55)	TRICHLOROETHENE	5.020	95	177169	9.7039	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	154800	9.5929	PPBV		99
57)	DIBROMOMETHANE	4.747	174	192245	12.3567	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	347251	9.6141	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	296513	10.0519	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.107	57	724228	9.1624	PPBV		100
61)	1,4-DIOXANE	5.026	88	86594	10.0198	PPBV		98
62)	HEPTANE	5.422	43	242237	9.2815	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	142858	9.7409	PPBV		93
64)	METHYL ISOBUTYL KETONE	6.039	58	138357	8.8402	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.940	75	245439	9.9193	PPBV		96
66)	TOLUENE	7.132	91	479641	10.3186	PPBV		99
67)	1,3-DICHLOROPROPANE	7.190	76	243826	10.4629	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	212620	9.5108	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.769	83	139676	10.5451	PPBV		99
70)	2-HEXANONE	7.695	58	183154	8.3868	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	244235	9.9836	PPBV		95
72)	TETRACHLOROETHENE	8.846	164	214993	12.6801	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	308974	11.4785	PPBV		99
74)	1,2-DIBROMOETHANE	8.001	107	264374	11.0327	PPBV	#	99
75)	OCTANE	8.997	43	340227	9.7318	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	213802	11.0818	PPBV		98
78)	CHLOROBENZENE	10.046	112	392719	10.6923	PPBV		99
79)	ETHYLBENZENE	10.923	91	651683	10.8278	PPBV		100
80)	M,P-XYLENE	11.351	91	1010310	20.7219	PPBV		100
81)	O-XYLENE	12.280	91	515533	10.8943	PPBV		99
82)	STYRENE	12.068	104	395209	11.1402	PPBV		100
83)	NONANE	13.402	43	357848	9.7149	PPBV		98
84)	BROMOFORM	11.158	173	342855	15.1068	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	361121	10.6535	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.576	75	285430	10.7439	PPBV	#	100
88)	ISOPROPYLBENZENE	13.788	120	191225	10.6304	PPBV		99
89)	BROMOBENZENE	13.653	77	356600	10.3218	PPBV		88
90)	2-CHLOROTOLUENE	14.785	126	177031	10.5518	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	202037	10.5821	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	756559	10.7077	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.843	105	633103	10.7664	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.171	118	305574	10.4780	PPBV		99
95)	TERT-BUTYLBENZENE	16.499	134	146423	10.2130	PPBV		91
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	646508	11.0901	PPBV		100
97)	BENZYL CHLORIDE	16.602	91	458275	9.7306	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	418818	10.4569	PPBV		97
99)	P-DICHLOROBENZENE	16.663	146	428379	10.8544	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	393831	10.6003	PPBV		97
101)	SEC-BUTYLBENZENE	16.814	134	177863	10.4183	PPBV		92
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	620374	10.6156	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.010	134	193374	10.1909	PPBV		89
104)	N-BUTYLBENZENE	17.380	134	191374	10.5788	PPBV		94
105)	HEXACHLOROETHANE	17.560	117	252934	11.3491	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.630	225	499473	18.9032	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.315	180	516000	16.2830	PPBV		97
108)	NAPHTHALENE	18.363	128	991089	13.9417	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	565634	8.4081	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

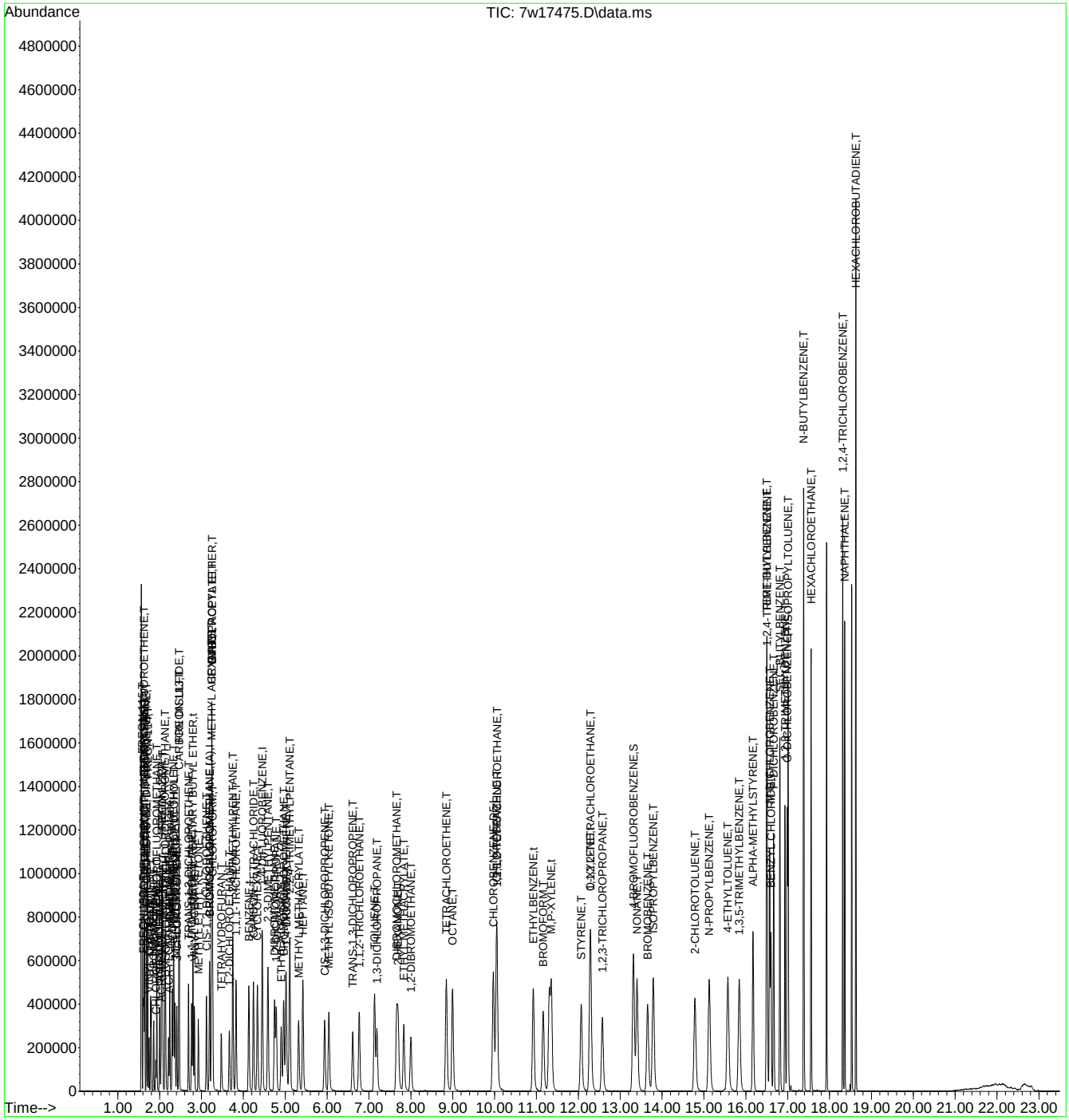
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:13:12 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

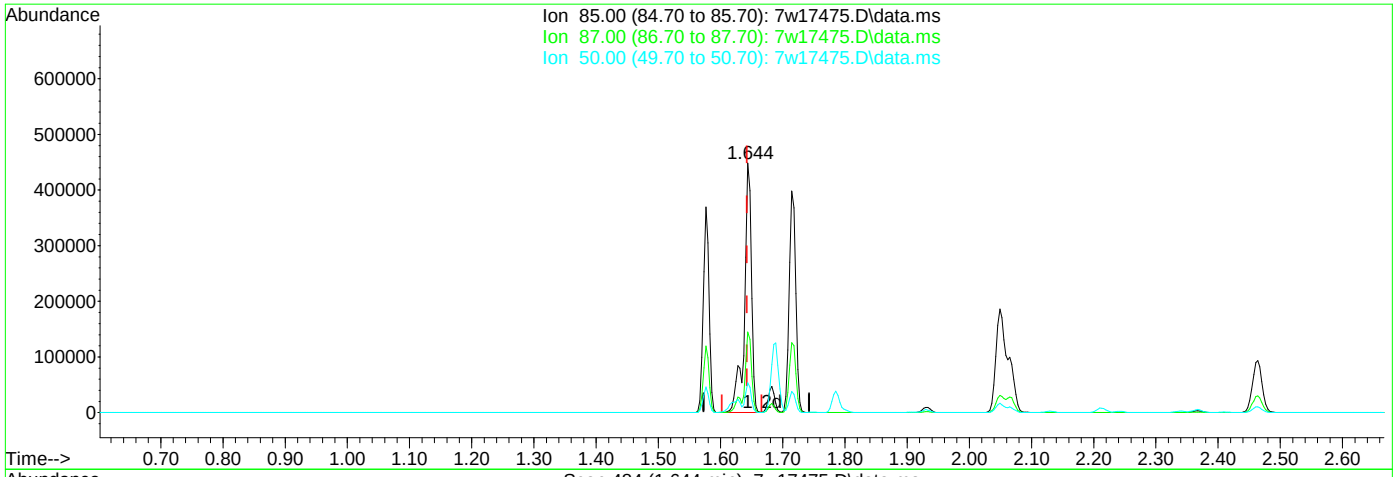
Sample Number: V7W613-BSD
Lab FileID: 7W17475.D
Injection Time: 09/26/25 12:32
Method: TO-15
Analyst approved: 09/29/25 13:50 Kristel Valladolid
Supervisor approved: 09/29/25 15:16 Kanya Veerawat

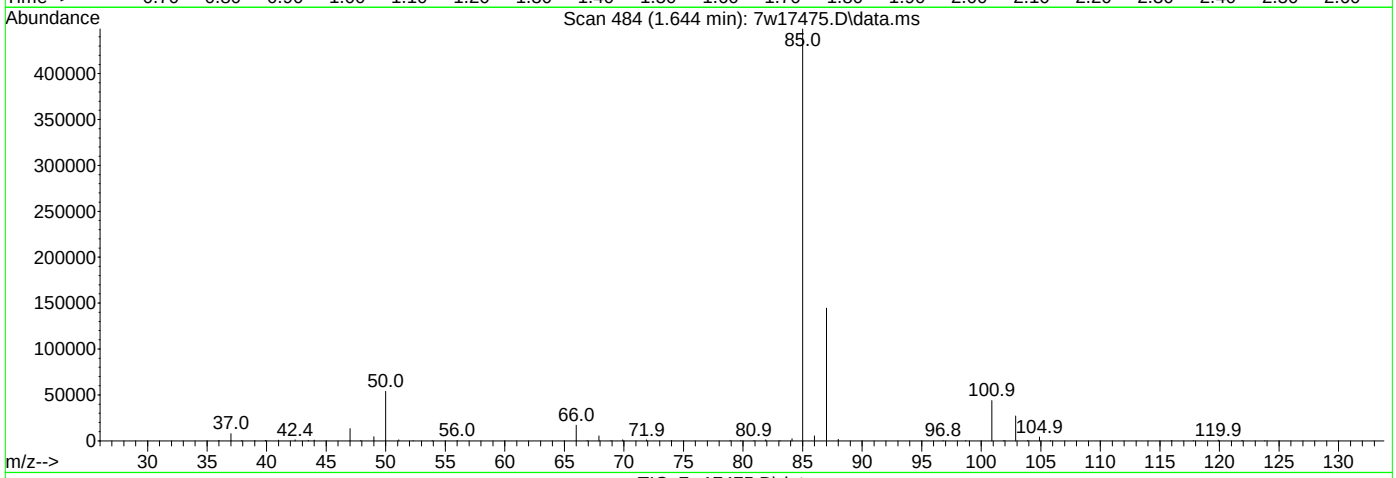
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak
Carbon disulfide	75-15-0		2.47	Missed peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 12.35PPBV

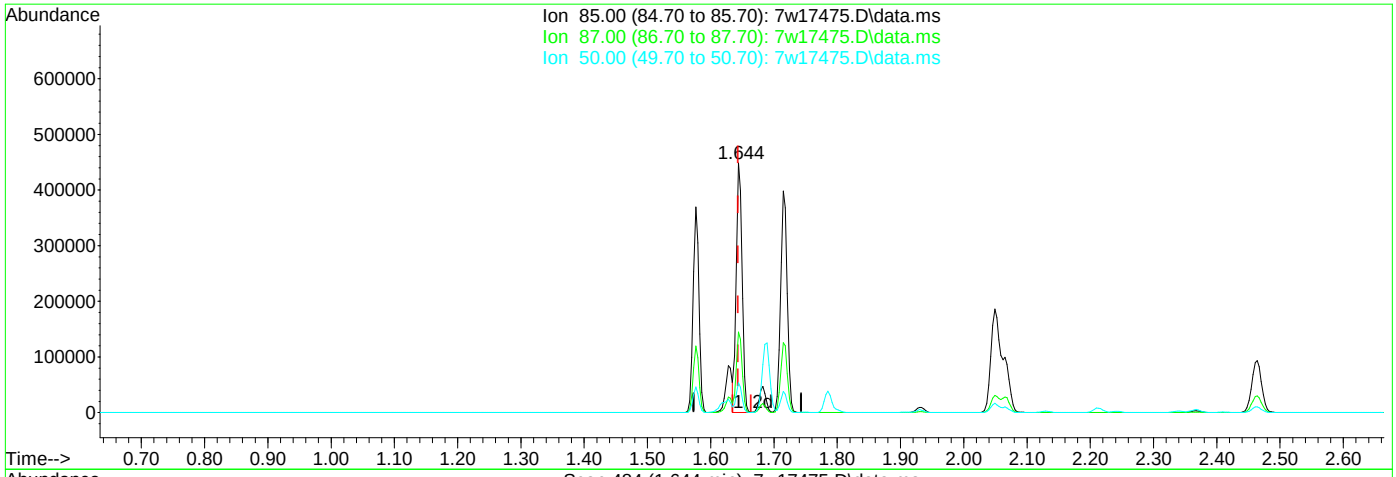
response 352449

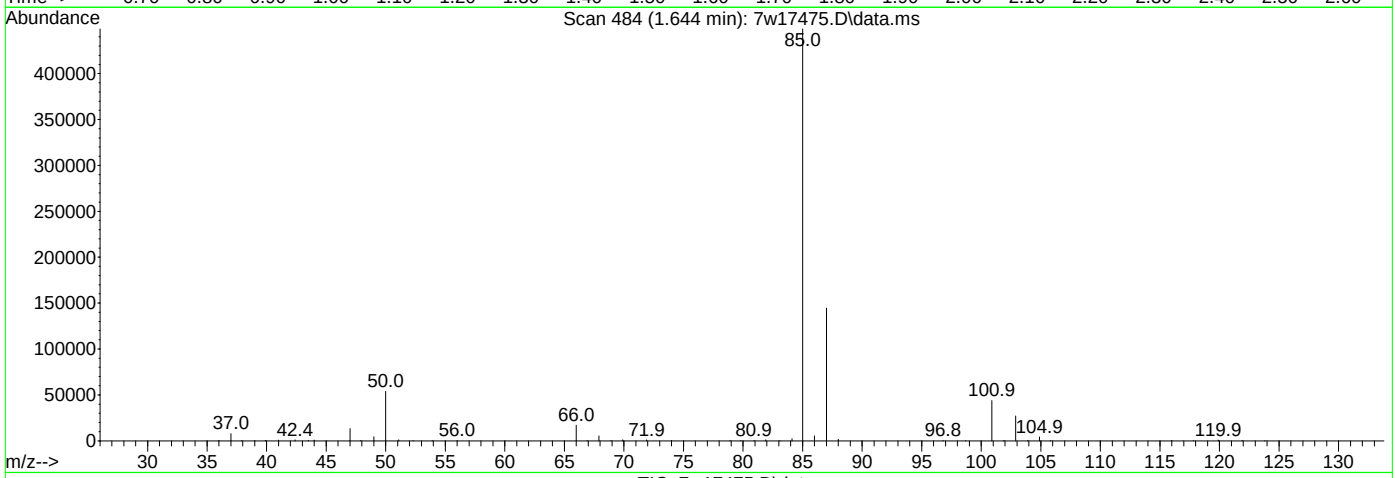
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.29
50.00	19.30	17.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 10.22PPBV m

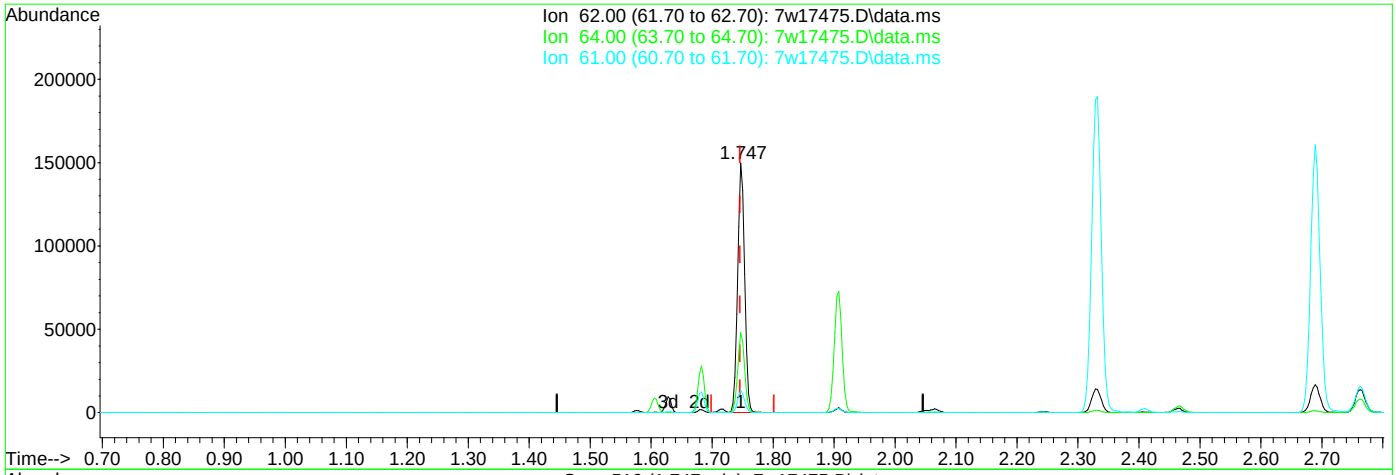
response 291674

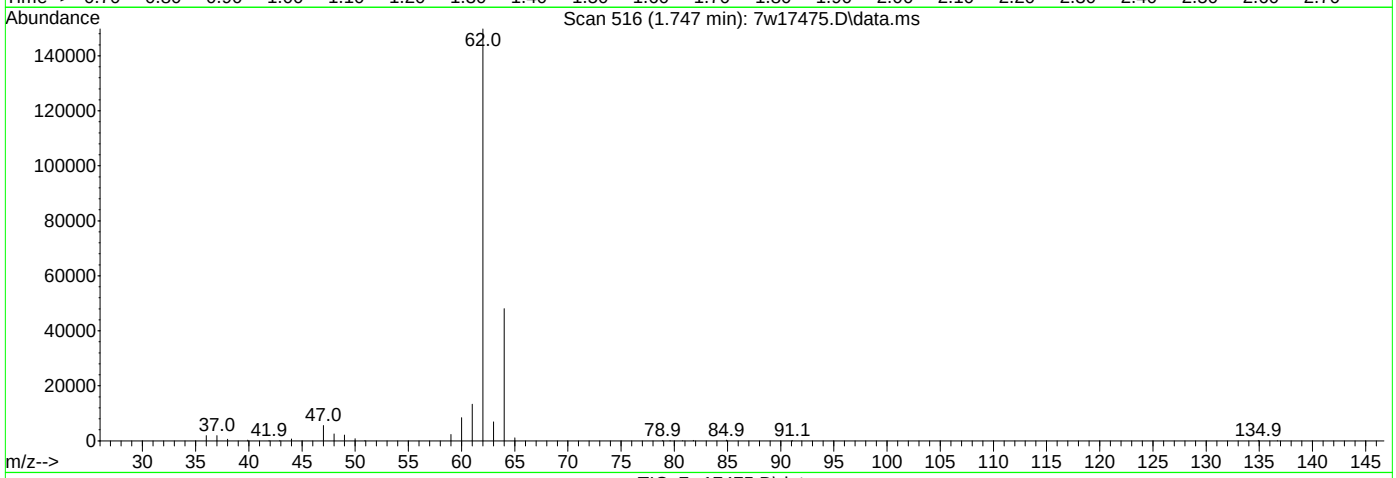
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.02
50.00	19.30	20.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.33PPBV

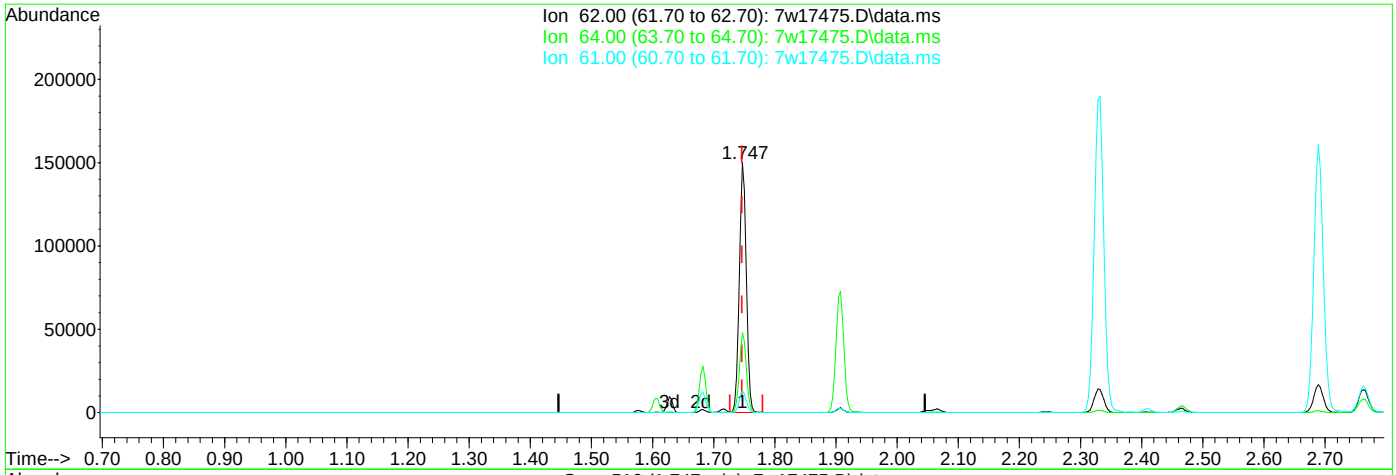
response 120814

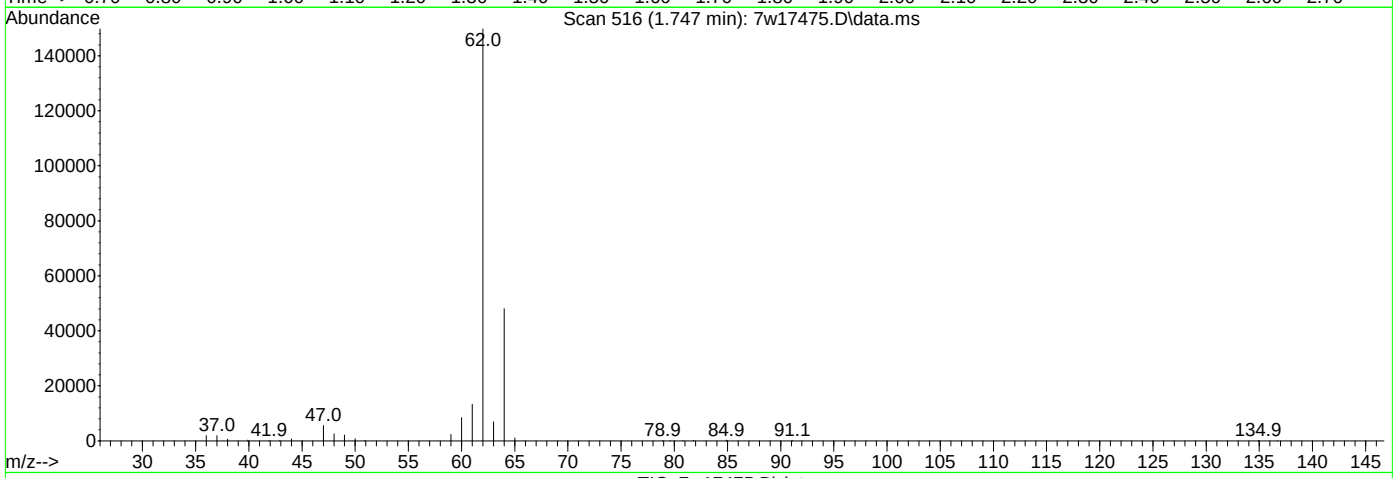
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.28
61.00	8.10	8.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(11) VINYL CHLORIDE (T)

1.747min (+0.001) 8.22PPBV m

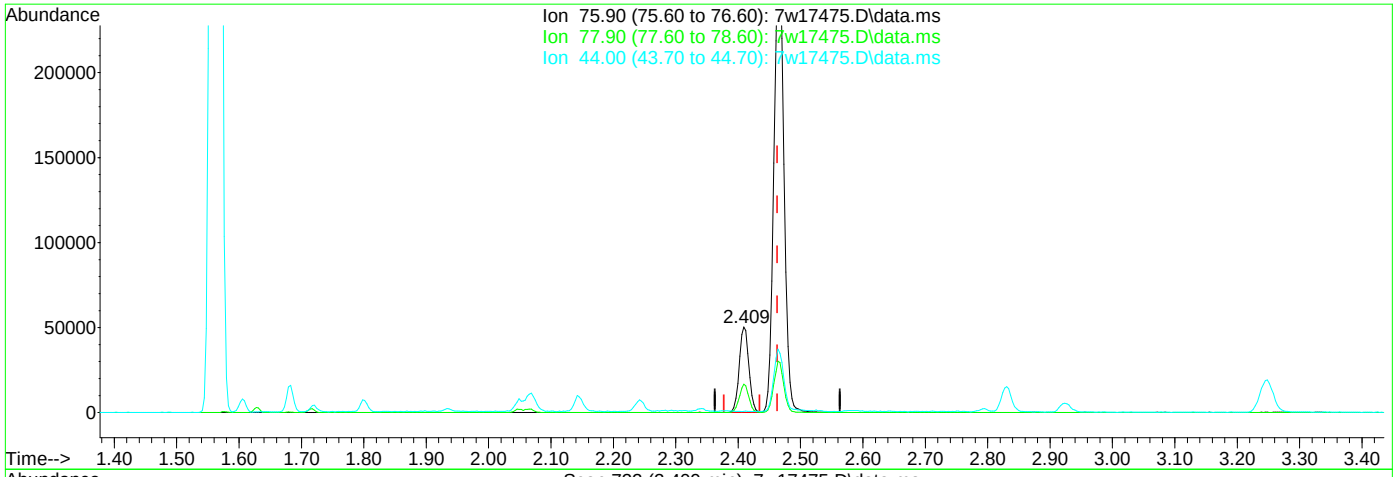
response 119109

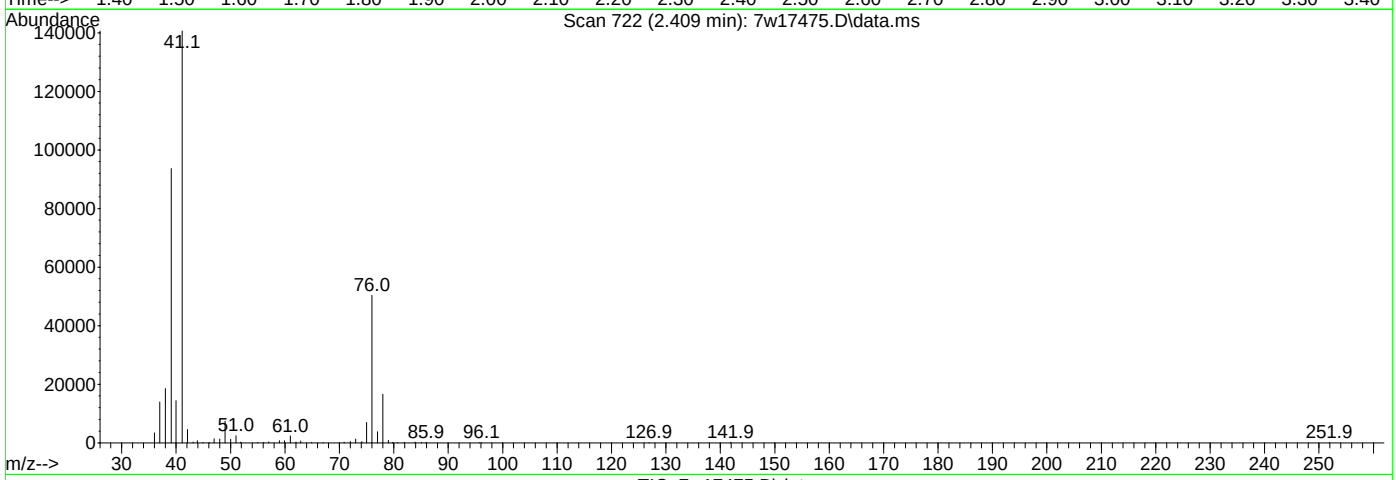
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.73
61.00	8.10	8.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.409min (-0.054) 1.62PPBV

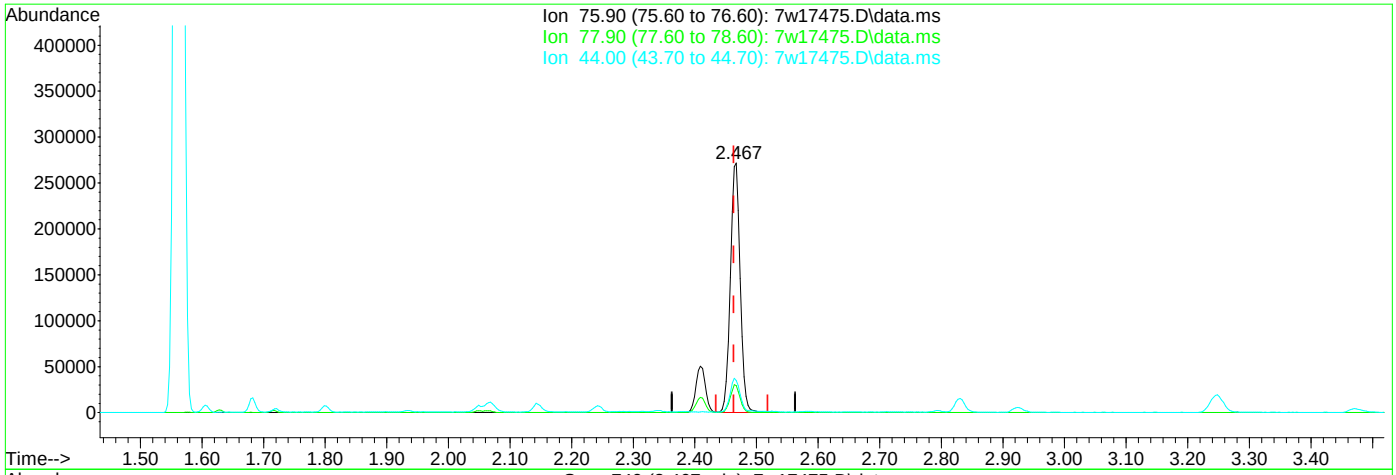
response 54178

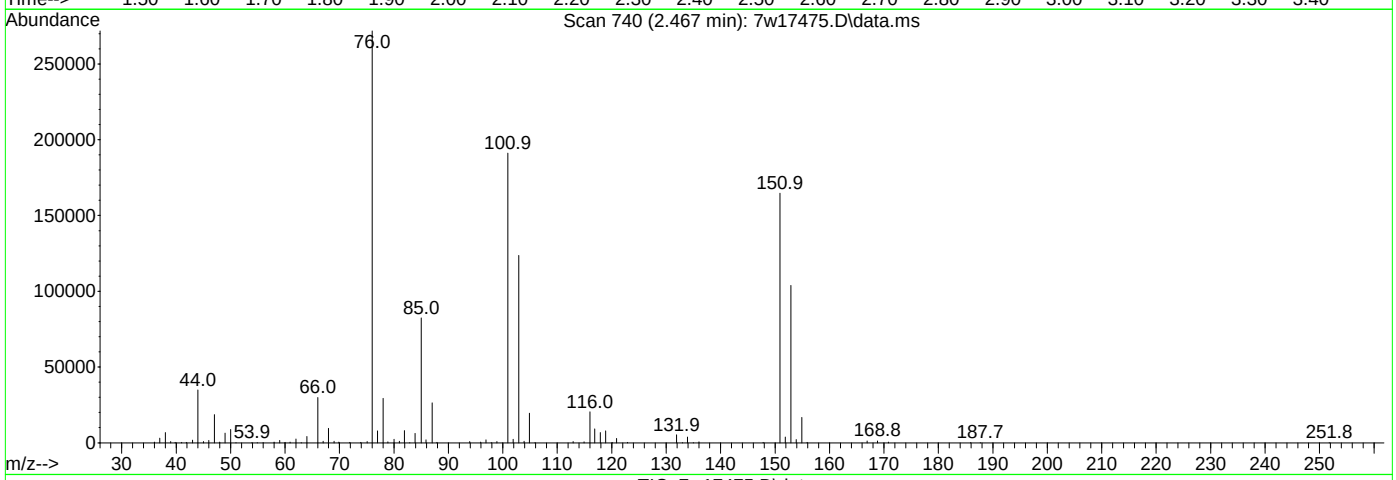
Ion	Exp%	Act%
75.90	100	100
77.90	11.00	32.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17475.D
Acq On : 26 Sep 2025 12:32 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:56:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17475.D\data.ms

(27) CARBON DISULFIDE (T)

2.467min (+0.004) 8.99PPBV m

response 301432

Ion	Exp%	Act%
75.90	100	100
77.90	11.00	5.92#
44.00	14.60	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	130379	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	642815	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	599585	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	130461	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	486335	10.07	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	176735	11.1743	PPBV		99
3) FREON 152A	1.608	65	89326	10.9473	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	40053	11.3065	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	197338	11.5774	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	331395m	10.6133	PPBV		
7) PROPYLENE	1.627	41	107588	10.1874	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	298348	10.7394	PPBV		99
9) FREON 114	1.717	85	333202	10.3527	PPBV		98
10) CHLOROMETHANE	1.689	52	39113	8.7346	PPBV		96
11) VINYL CHLORIDE	1.750	62	140496m	8.8606	PPBV		
12) 1,3-BUTADIENE	1.785	54	109540	8.7462	PPBV		99
13) N-BUTANE	1.801	43	189708	8.9517	PPBV		98
14) BROMOMETHANE	1.859	94	120340	9.7876	PPBV		99
15) CHLOROETHANE	1.907	64	77444	8.9982	PPBV	#	89
16) DICHLOROFLUOROMETHANE	1.933	67	293933	9.8622	PPBV		99
17) ACETONITRILE	1.997	41	106613	7.1990	PPBV		100
18) ACROLEIN	2.036	56	60964	8.6658	PPBV		97
19) FREON 123	2.049	83	313937	10.4544	PPBV		99
20) FREON 123A	2.068	117	196771	11.0608	PPBV		94
21) TRICHLOROFLUOROMETHANE	2.129	101	362130	10.6783	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	277425	9.6537	PPBV		97
23) ACETONE	2.074	58	72195	9.1885	PPBV		96
24) PENTANE	2.242	42	135958	8.7355	PPBV		95
25) IODOMETHANE	2.303	142	352266	11.2902	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	134028	10.3681	PPBV		95
27) CARBON DISULFIDE	2.463	76	345454	9.4183	PPBV		99
28) ETHANOL	1.936	45	58852	7.6924	PPBV		98
29) BROMOETHENE	2.007	106	125973	10.2053	PPBV		100
30) ACRYLONITRILE	2.213	52	103889	9.4028	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	117155	9.2451	PPBV		90
32) 3-CHLOROPROPENE	2.409	76	62884	9.0946	PPBV		93
33) FREON 113	2.463	151	222768	11.4407	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	127816	8.9868	PPBV		95
35) TERTIARY BUTYL ALCOHOL	2.341	59	281570	7.8423	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	403327	9.9691	PPBV		100
37) TETRAHYDROFURAN	3.470	72	63152	9.6247	PPBV		95
38) HEXANE	3.242	57	265163	9.7303	PPBV		100
39) VINYL ACETATE	2.830	86	39734	10.2179	PPBV		91
40) 1,1-DICHLOROETHANE	2.762	63	268535	9.7668	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	72677	9.7738	PPBV		93
42) CIS-1,2-DICHLOROETHENE	3.116	96	152205	10.3170	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	75942	9.8290	PPBV		95
44) ETHYL ACETATE	3.251	61	53380	10.2196	PPBV		96
45) METHYL ACRYLATE	3.238	55	326671	9.9066	PPBV	#	100
46) CHLOROFORM	3.264	83	302027	10.6136	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	312976	10.2614	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	322542	10.7547	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	344735	11.0957	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224224	10.1362	PPBV		99
51)	BENZENE	4.129	78	434136	9.9453	PPBV		99
53)	CYCLOHEXANE	4.335	84	195153	10.3770	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.586	71	100086	10.6718	PPBV		100
55)	TRICHLOROETHENE	5.013	95	203318	10.1417	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	182672	10.3093	PPBV		99
57)	DIBROMOMETHANE	4.746	174	219183	12.8301	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	405297	10.2192	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	344428	10.6336	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	843872	9.7228	PPBV		99
61)	1,4-DIOXANE	5.029	88	102208	10.7705	PPBV		97
62)	HEPTANE	5.418	43	281372	9.8183	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	166045	10.3110	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	163064	9.4885	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	281698	10.3681	PPBV		97
66)	TOLUENE	7.132	91	550062	10.7769	PPBV		98
67)	1,3-DICHLOROPROPANE	7.190	76	278241	10.8735	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	247748	10.0926	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.765	83	159511	10.9672	PPBV		98
70)	2-HEXANONE	7.691	58	219736	9.1635	PPBV		97
71)	ETHYL METHACRYLATE	7.830	69	282972	10.5342	PPBV		96
72)	TETRACHLOROETHENE	8.846	164	255210	13.7080	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	361003	12.2138	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	305704	11.6183	PPBV	#	98
75)	OCTANE	8.994	43	390745	10.1788	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	247746	11.5146	PPBV		98
78)	CHLOROBENZENE	10.045	112	451175	11.0149	PPBV		99
79)	ETHYLBENZENE	10.926	91	750408	11.1801	PPBV		99
80)	M,P-XYLENE	11.351	91	1163998	21.4078	PPBV		98
81)	O-XYLENE	12.280	91	593266	11.2419	PPBV		99
82)	STYRENE	12.071	104	449108	11.3517	PPBV		99
83)	NONANE	13.402	43	415056	10.1039	PPBV		97
84)	BROMOFORM	11.161	173	406205	16.0491	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	423563	11.2047	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.576	75	333873	11.2690	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218081	10.8709	PPBV		99
89)	BROMOBENZENE	13.656	77	410584	10.6567	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	201788	10.7850	PPBV		100
91)	N-PROPYLBENZENE	15.125	120	231395	10.8678	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	870118	11.0427	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.846	105	731717	11.1579	PPBV		98
94)	ALPHA-METHYLSTYRENE	16.173	118	351353	10.8032	PPBV		99
95)	TERT-BUTYLBENZENE	16.495	134	165463	10.3488	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	747610	11.4996	PPBV		99
97)	BENZYL CHLORIDE	16.598	91	551134	10.4934	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	482591	10.8044	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	486723	11.0587	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	460040	11.1032	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	202794	10.6516	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	718118	11.0188	PPBV		98
103)	P-ISOPROPYLTOLUENE	17.009	134	221605	10.4722	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218487	10.8299	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	282989	11.3859	PPBV	#	83
106)	HEXACHLOROBUTADIENE	18.620	225	578900	19.6459	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.308	180	586728	16.6022	PPBV		97
108)	NAPHTHALENE	18.357	128	1106673	13.9595	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	673394	9.1450	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

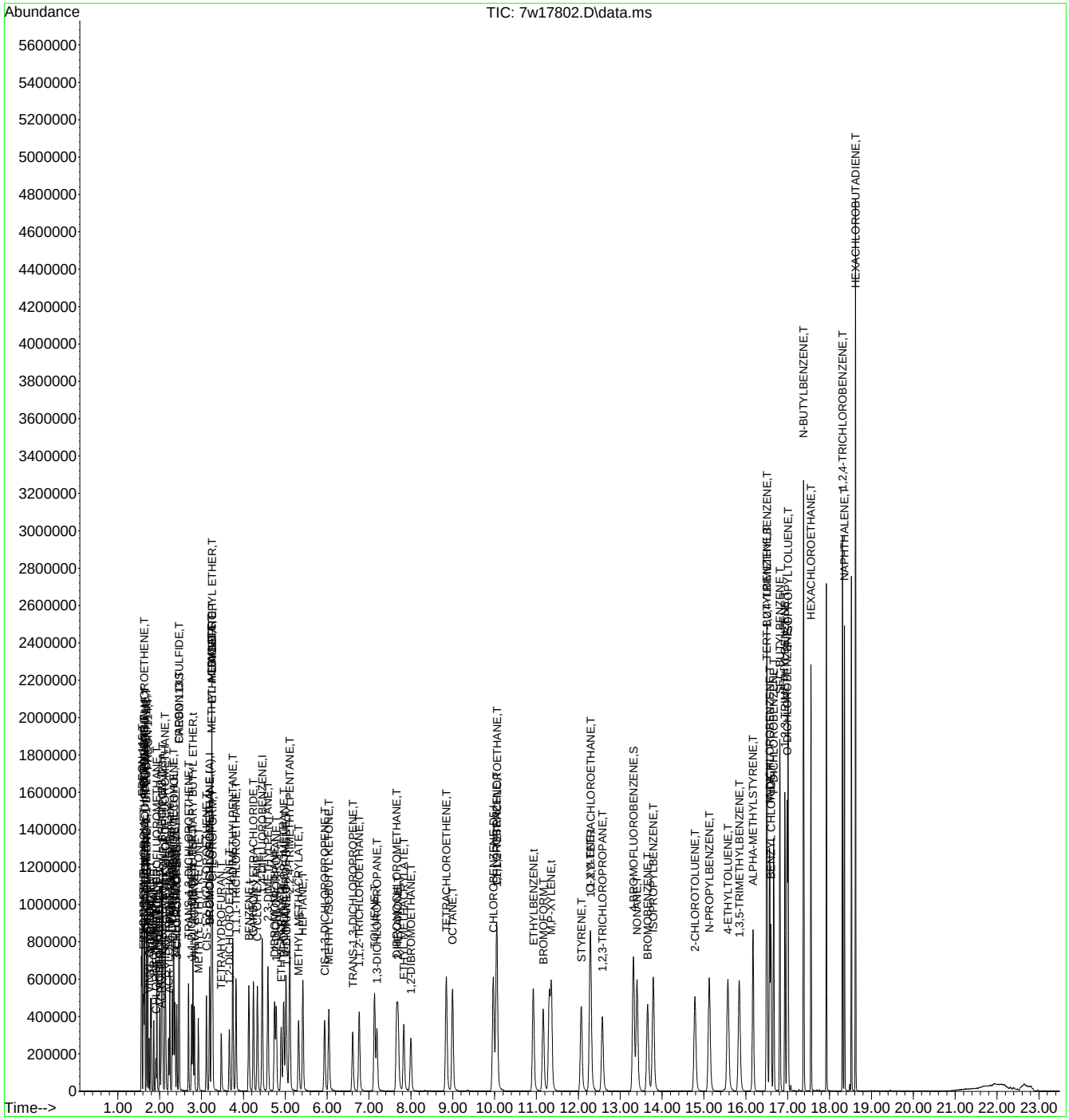
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

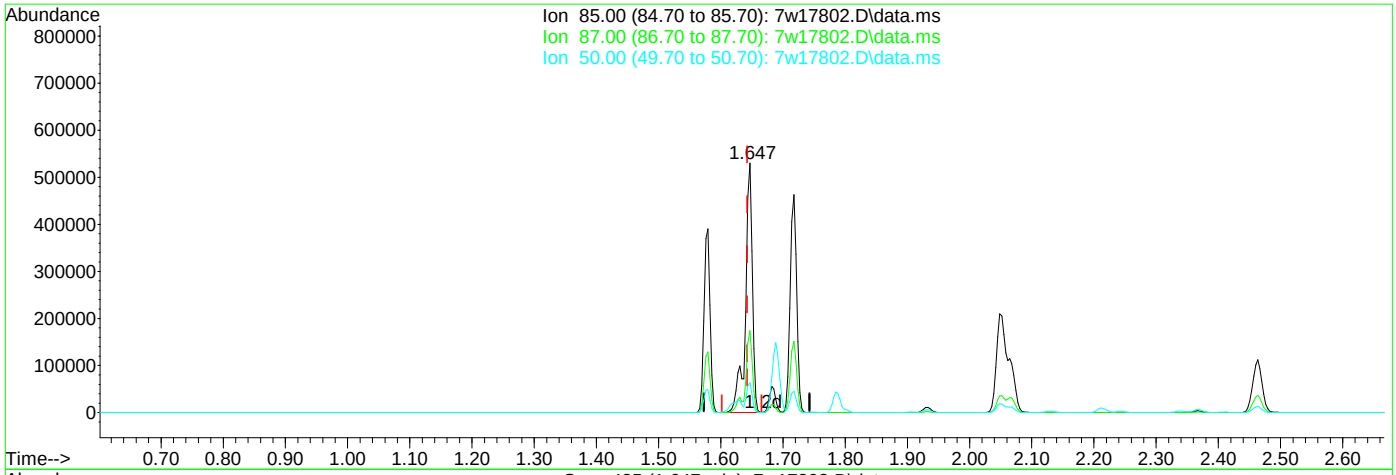
Sample Number: V7W624-BS
Lab FileID: 7W17802.D
Injection Time: 10/13/25 12:00
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

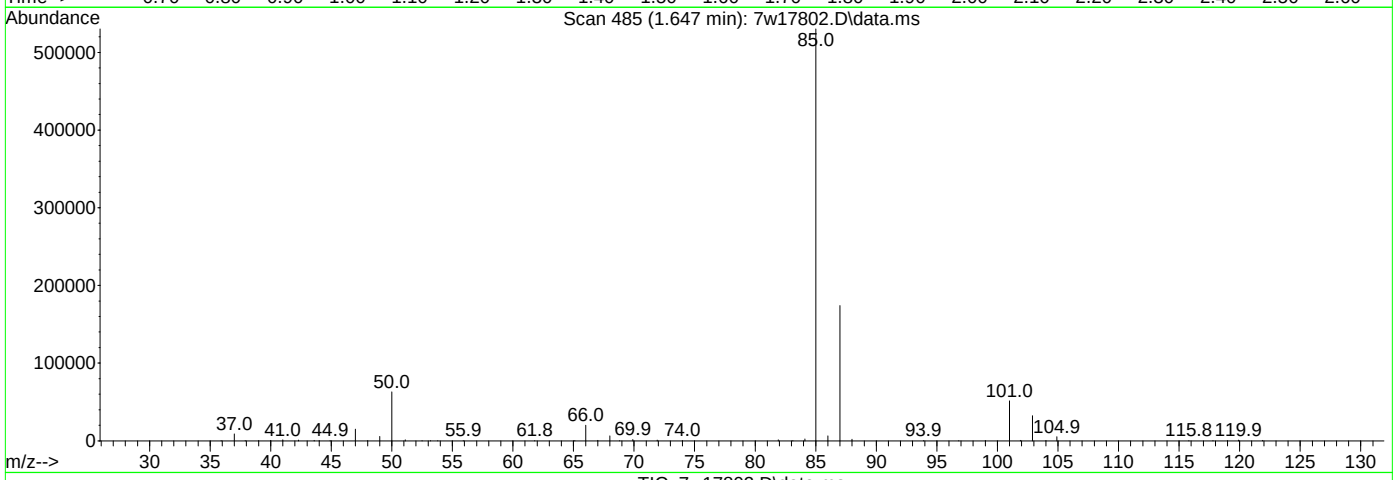
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.10PPBV

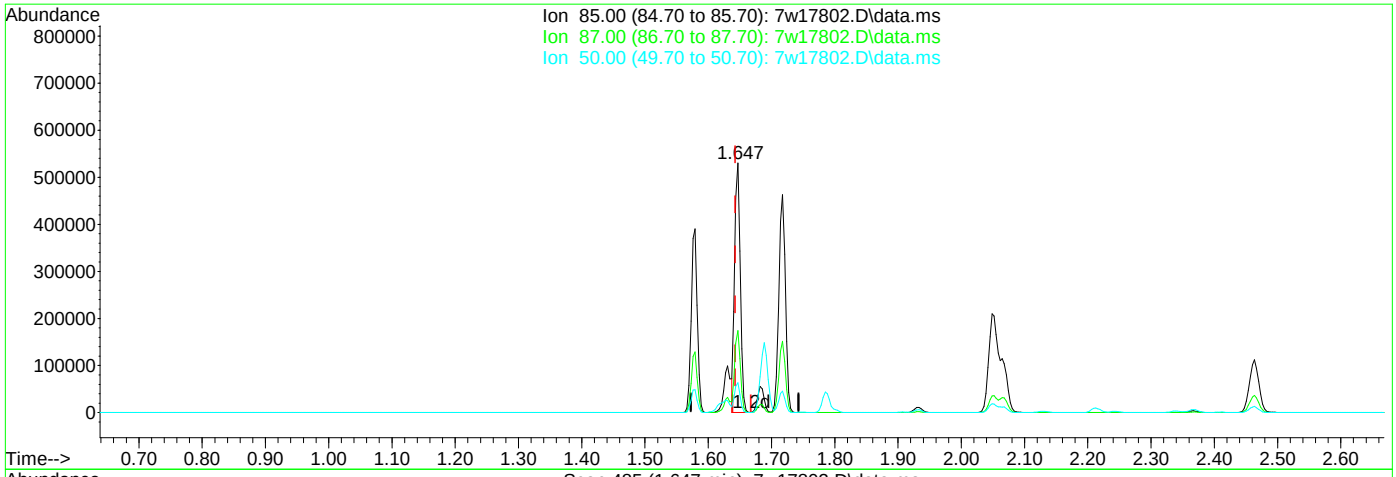
response 409190

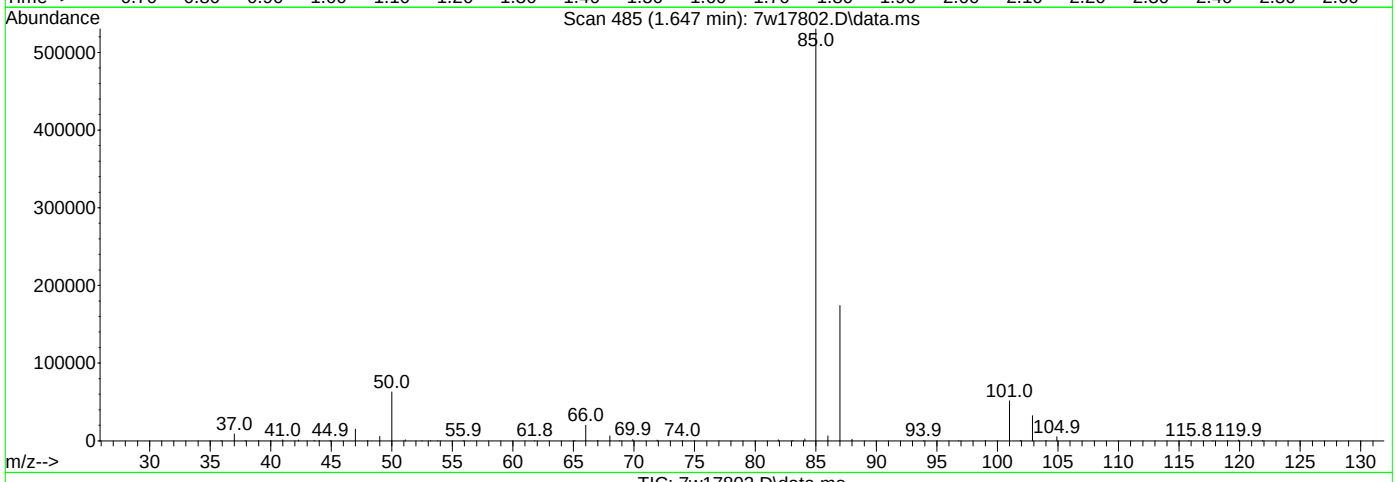
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.71
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.61PPBV m

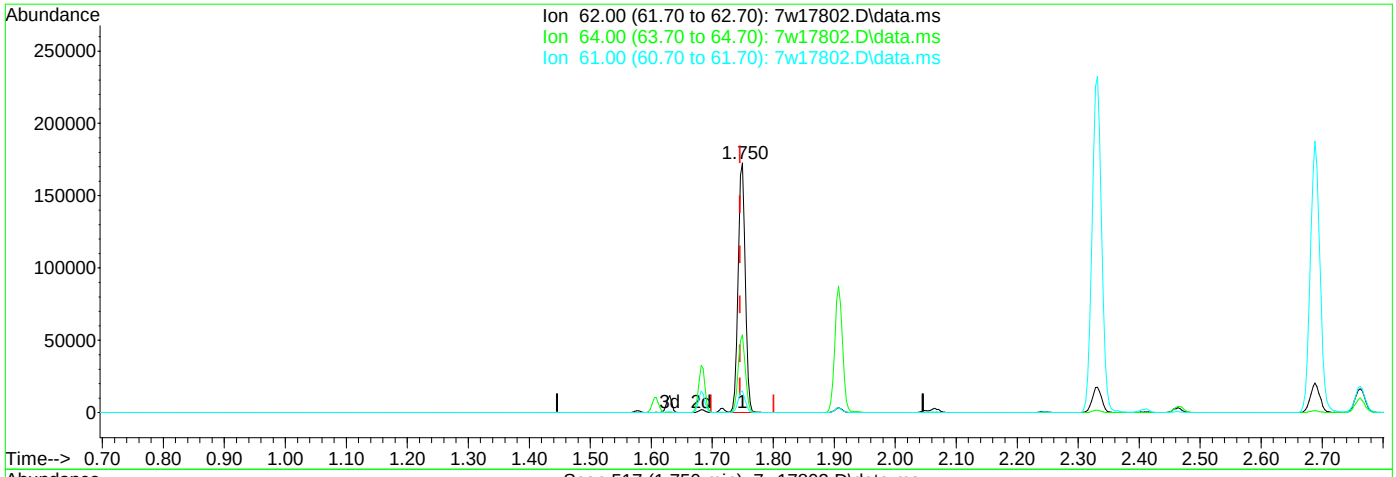
response 331395

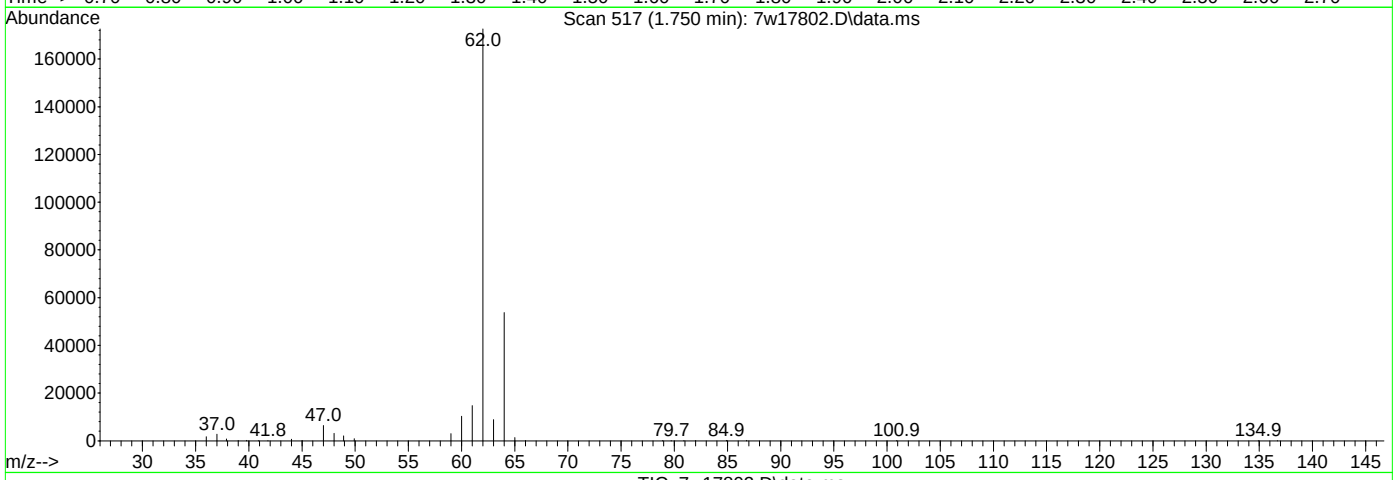
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.39
50.00	19.30	21.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.98PPBV

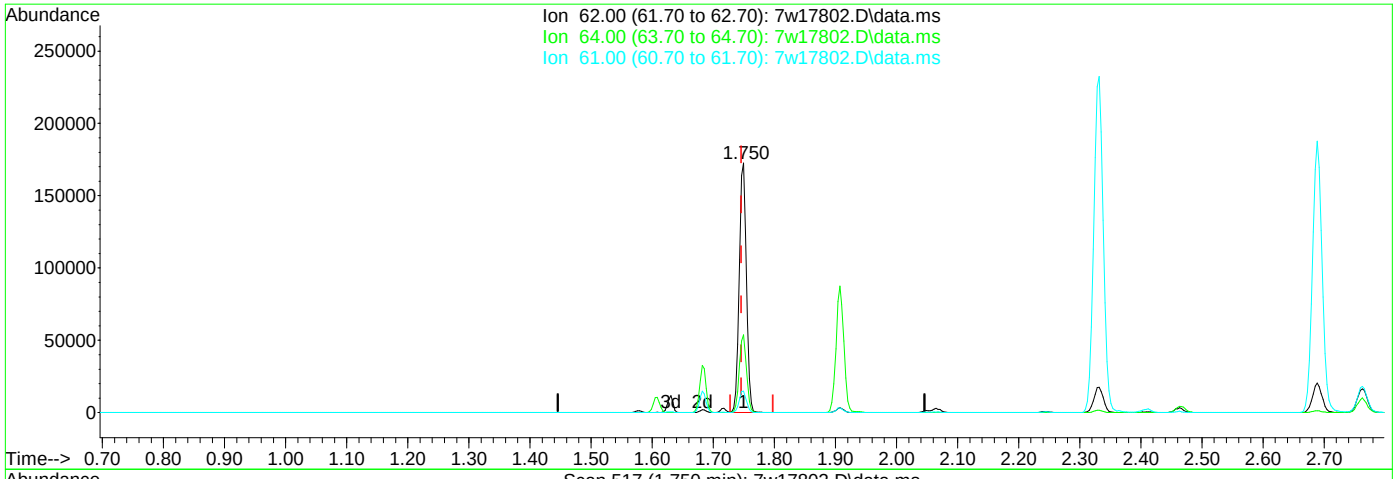
response 142442

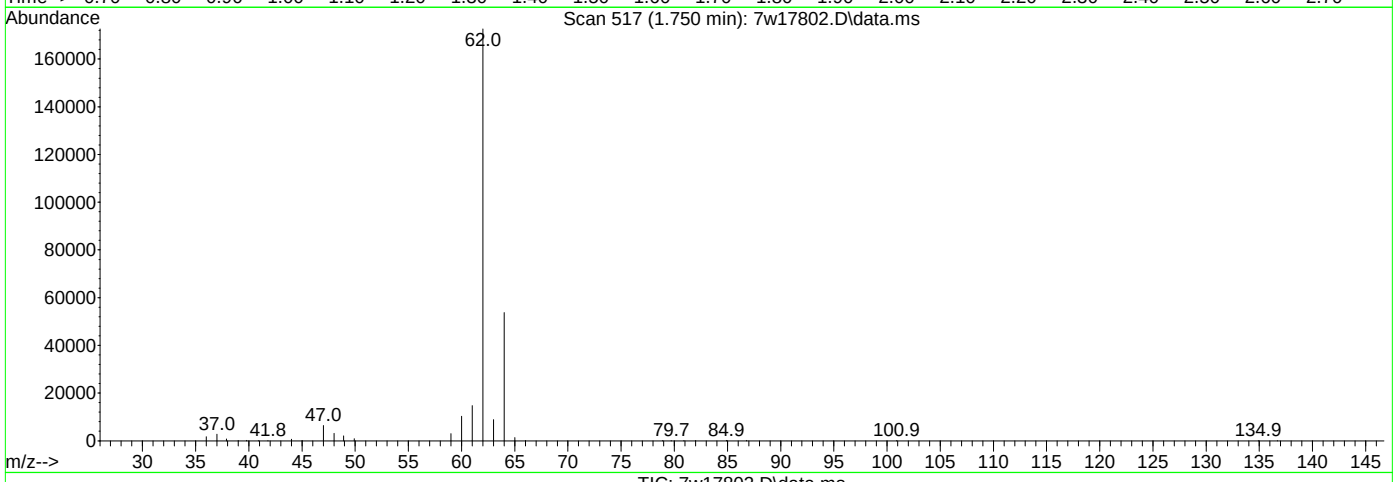
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.06
61.00	8.10	8.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17802.D
Acq On : 13 Oct 2025 12:00 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:23 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17802.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.86PPBV m

response 140496

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.49
61.00	8.10	9.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	133015	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	654252	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	606507	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	133015	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	488885	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	184518	11.4351	PPBV		97
3) FREON 152A	1.608	65	88561	10.6384	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	39504	10.9306	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	198082	11.3907	PPBV		93
6) DICHLORODIFLUOROMETHANE	1.647	85	330825m	10.3850	PPBV		
7) PROPYLENE	1.627	41	106360	9.8716	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	294346	10.3854	PPBV		99
9) FREON 114	1.718	85	333590	10.1593	PPBV		98
10) CHLOROMETHANE	1.689	52	38875	8.5094	PPBV		95
11) VINYL CHLORIDE	1.750	62	141171m	8.7268	PPBV		
12) 1,3-BUTADIENE	1.788	54	109232	8.5488	PPBV		98
13) N-BUTANE	1.801	43	188556	8.7211	PPBV		98
14) BROMOMETHANE	1.859	94	120595	9.6140	PPBV		100
15) CHLOROETHANE	1.907	64	77077	8.7781	PPBV		97
16) DICHLOROFLUOROMETHANE	1.933	67	293626	9.6567	PPBV		99
17) ACETONITRILE	1.997	41	107546	7.1181	PPBV		100
18) ACROLEIN	2.036	56	60096	8.3731	PPBV		98
19) FREON 123	2.049	83	313055	10.2185	PPBV		99
20) FREON 123A	2.068	117	194913	10.7393	PPBV		95
21) TRICHLOROFLUOROMETHANE	2.129	101	360832	10.4292	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	271841	9.2719	PPBV		97
23) ACETONE	2.074	58	71308	8.8957	PPBV		93
24) PENTANE	2.245	42	137594	8.6655	PPBV		97
25) IODOMETHANE	2.303	142	349118	10.9676	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.332	96	133461	10.1196	PPBV		93
27) CARBON DISULFIDE	2.463	76	347514	9.2867	PPBV		99
28) ETHANOL	1.936	45	58793	7.5324	PPBV		99
29) BROMOETHENE	2.007	106	126156	10.0176	PPBV		99
30) ACRYLONITRILE	2.213	52	102809	9.1206	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	116850	9.0383	PPBV		91
32) 3-CHLOROPROPENE	2.409	76	62225	8.8210	PPBV		94
33) FREON 113	2.463	151	226512	11.4025	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.689	96	126753	8.7354	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.341	59	282424	7.7102	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	404326	9.7958	PPBV		100
37) TETRAHYDROFURAN	3.470	72	64425	9.6242	PPBV		94
38) HEXANE	3.242	57	266392	9.5817	PPBV		99
39) VINYL ACETATE	2.830	86	39170	9.8733	PPBV		92
40) 1,1-DICHLOROETHANE	2.762	63	279927	9.9793	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	72215	9.5192	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	151940	10.0949	PPBV		97
43) DIISOPROPYL ETHER	3.245	59	75945	9.6346	PPBV		93
44) ETHYL ACETATE	3.251	61	53799	10.0957	PPBV		93
45) METHYL ACRYLATE	3.238	55	325302	9.6696	PPBV	#	99
46) CHLOROFORM	3.264	83	301909	10.3992	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313273	10.0676	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	320180	10.4644	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	344405	10.8654	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	222139	9.8429	PPBV		98
51)	BENZENE	4.129	78	434777	9.7626	PPBV		99
53)	CYCLOHEXANE	4.335	84	196451	10.2634	PPBV		98
54)	2,3-DIMETHYLPENTANE	4.589	71	99309	10.4039	PPBV		100
55)	TRICHLOROETHENE	5.016	95	203186	9.9580	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181676	10.0739	PPBV		99
57)	DIBROMOMETHANE	4.746	174	220157	12.6619	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	408747	10.1261	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	340157	10.3182	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	830339	9.3996	PPBV		100
61)	1,4-DIOXANE	5.029	88	100689	10.4249	PPBV		99
62)	HEPTANE	5.418	43	278969	9.5643	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	165333	10.0873	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.039	58	164209	9.3881	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	282530	10.2170	PPBV		96
66)	TOLUENE	7.129	91	547970	10.5482	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	280485	10.7696	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	247201	9.8943	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	160800	10.8626	PPBV		98
70)	2-HEXANONE	7.692	58	221370	9.0703	PPBV		96
71)	ETHYL METHACRYLATE	7.830	69	280723	10.2678	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	253519	13.3791	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.663	129	357061	11.8692	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	302895	11.3103	PPBV	#	100
75)	OCTANE	8.997	43	389859	9.9782	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	244269	11.2234	PPBV		97
78)	CHLOROBENZENE	10.045	112	450459	10.8719	PPBV		100
79)	ETHYLBENZENE	10.923	91	751257	11.0651	PPBV		99
80)	M,P-XYLENE	11.347	91	1173523	21.3367	PPBV		99
81)	O-XYLENE	12.277	91	592934	11.1073	PPBV		99
82)	STYRENE	12.068	104	454402	11.3545	PPBV		99
83)	NONANE	13.402	43	413963	9.9623	PPBV		98
84)	BROMOFORM	11.161	173	406068	15.8606	PPBV	#	97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	423094	11.0646	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	334705	11.1682	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	218245	10.7550	PPBV		100
89)	BROMOBENZENE	13.656	77	409590	10.5096	PPBV		87
90)	2-CHLOROTOLUENE	14.785	126	203896	10.7733	PPBV		100
91)	N-PROPYLBENZENE	15.129	120	231345	10.7414	PPBV		100
92)	4-ETHYLTOLUENE	15.569	105	877241	11.0060	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	734177	11.0677	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.170	118	351054	10.6708	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	165961	10.2615	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	742070	11.2841	PPBV		100
97)	BENZYL CHLORIDE	16.598	91	548913	10.3318	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	486045	10.7576	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	485602	10.9073	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	457928	10.9261	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	201843	10.4806	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	720134	10.9236	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	221195	10.3336	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	218571	10.7104	PPBV		92
105)	HEXACHLOROETHANE	17.556	117	284764	11.3265	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.624	225	569272	19.0986	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	587813	16.4431	PPBV		97
108)	NAPHTHALENE	18.357	128	1114796	13.9014	PPBV		100
110)	TVHC as equiv Pentane	2.245	TIC	677533	9.0245	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

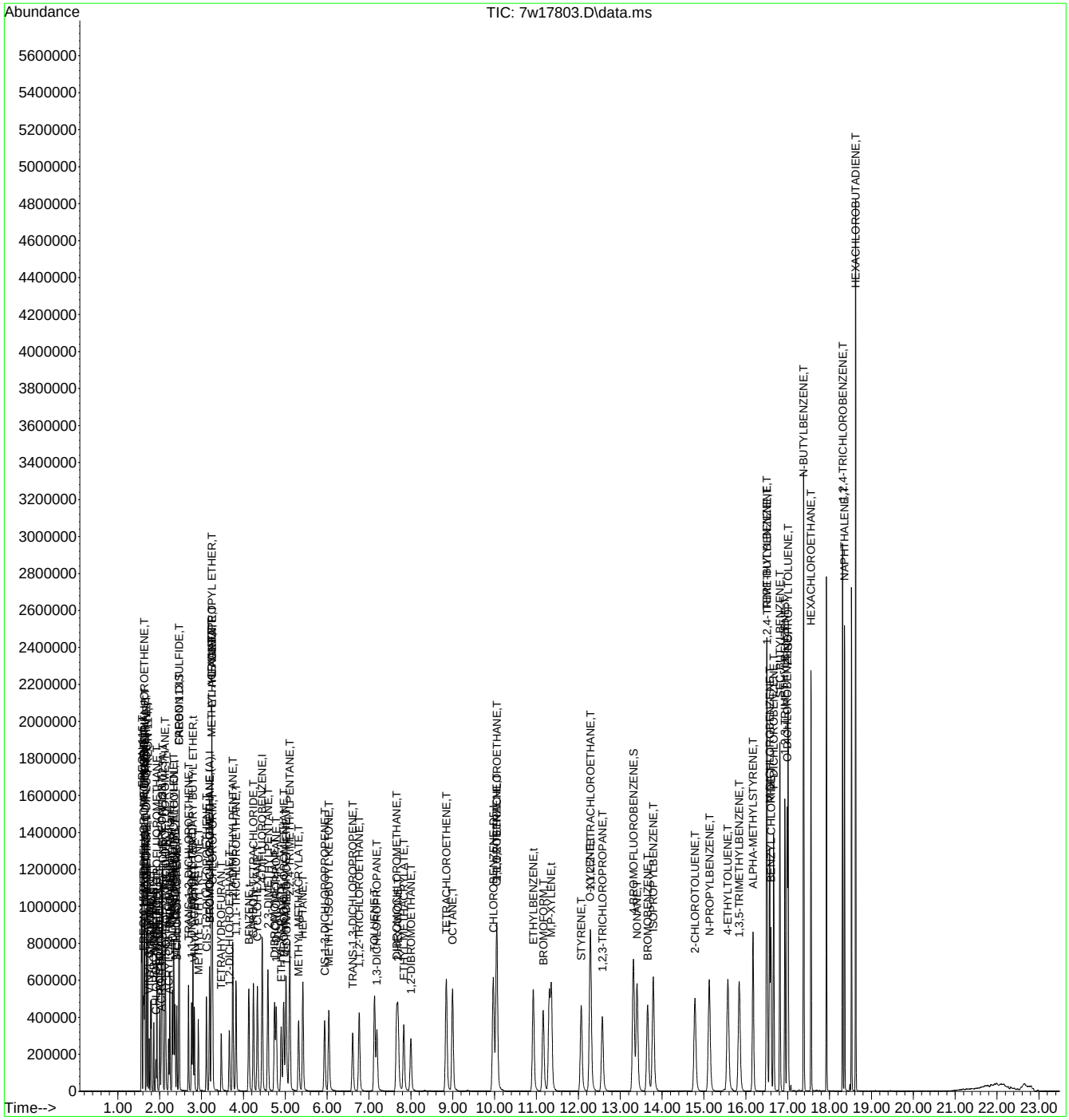
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:34:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

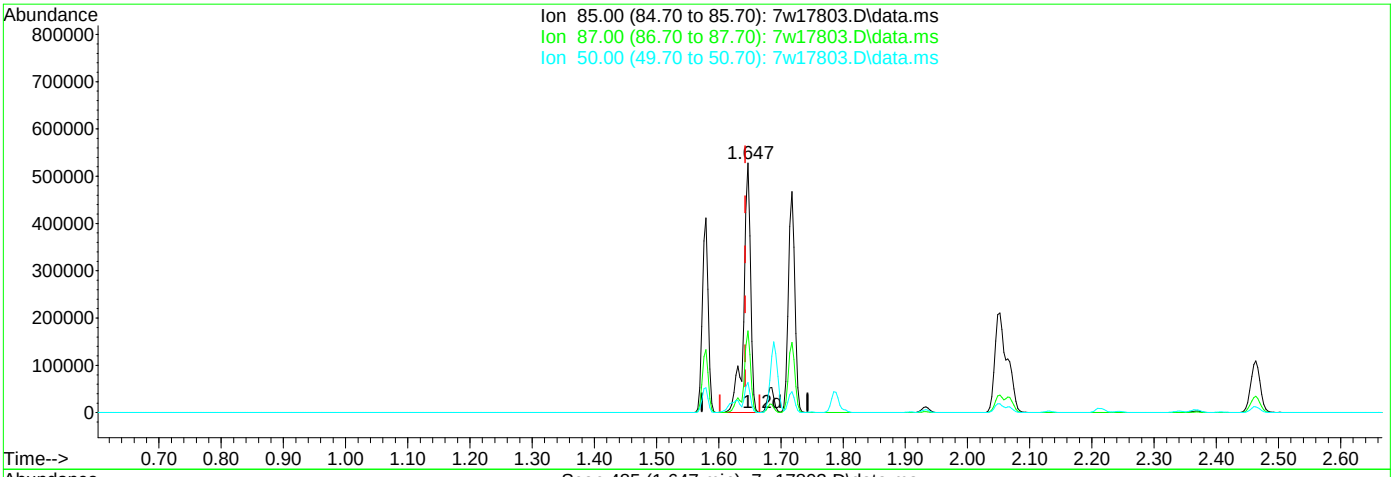
Sample Number: V7W624-BSD
Lab FileID: 7W17803.D
Injection Time: 10/13/25 12:37
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

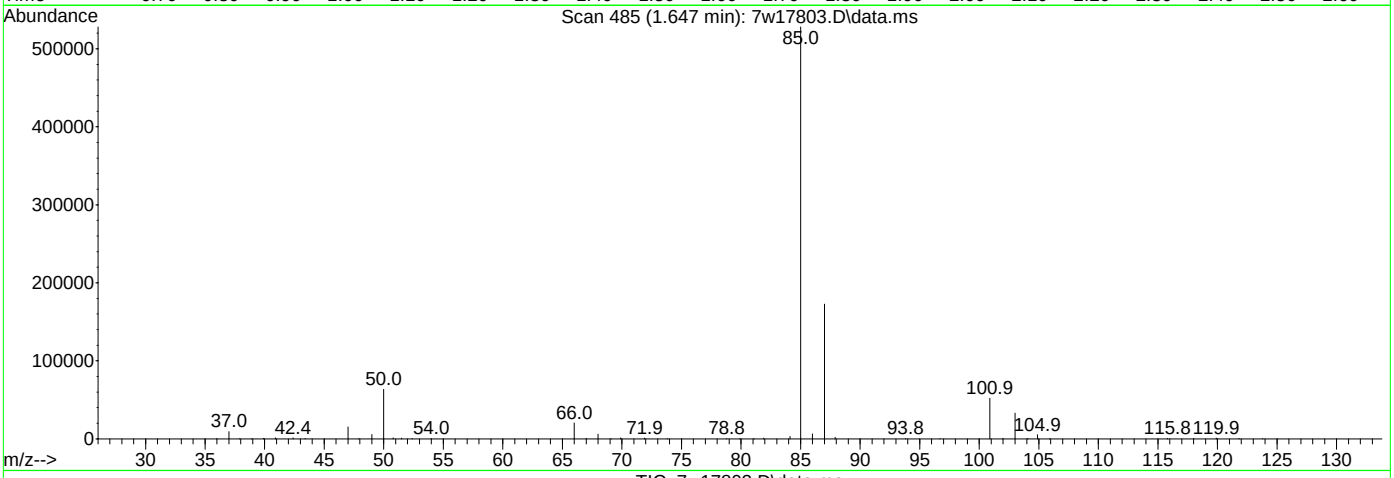
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

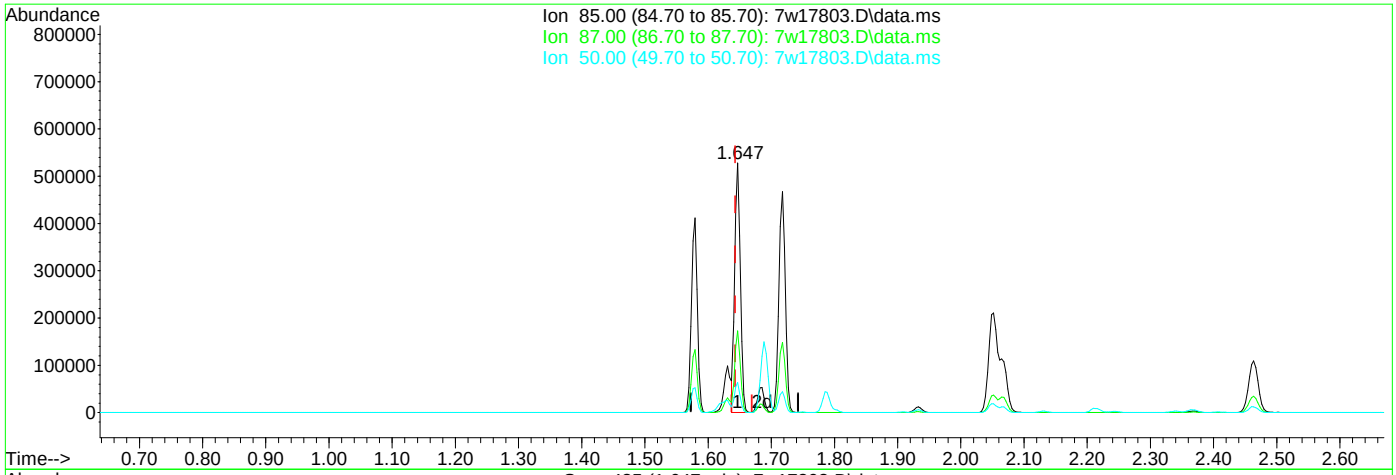
response 406017

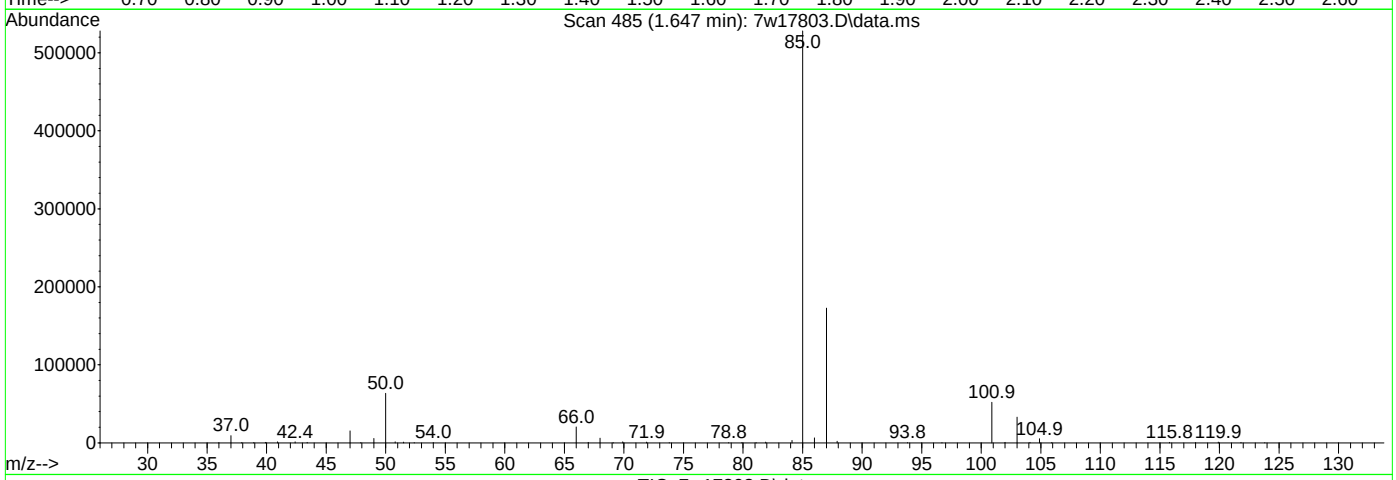
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.62
50.00	19.30	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.39PPBV m

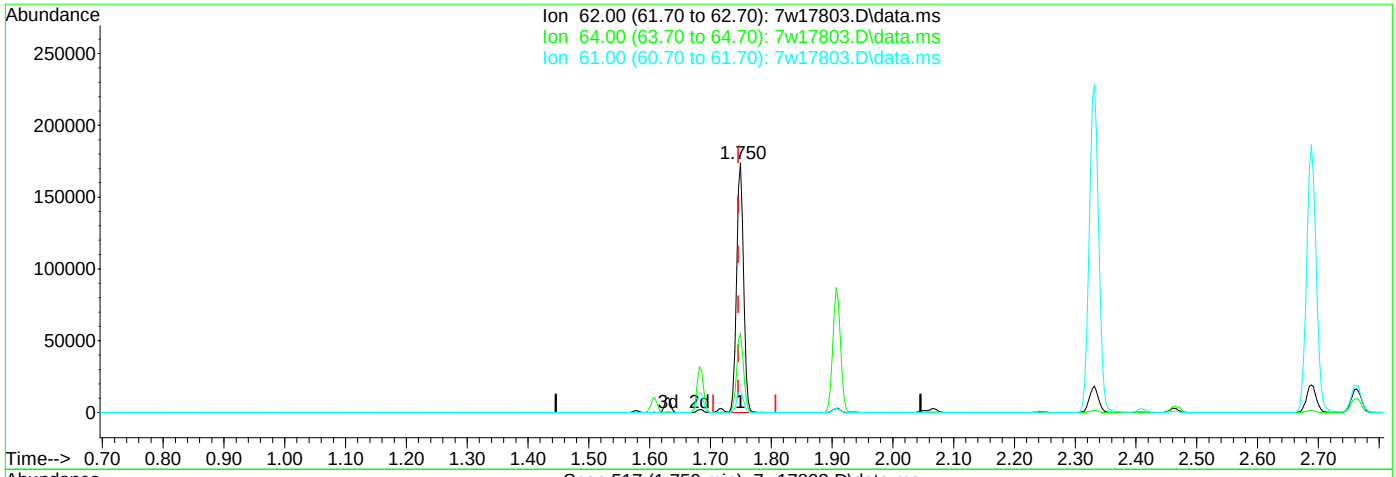
response 330825

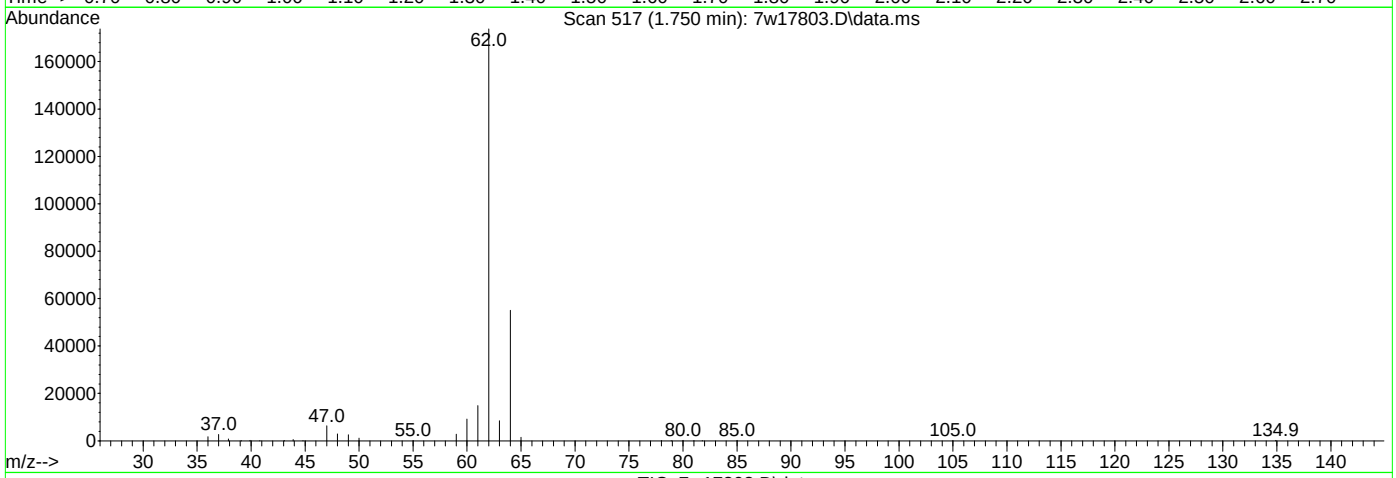
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	40.03
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.85PPBV

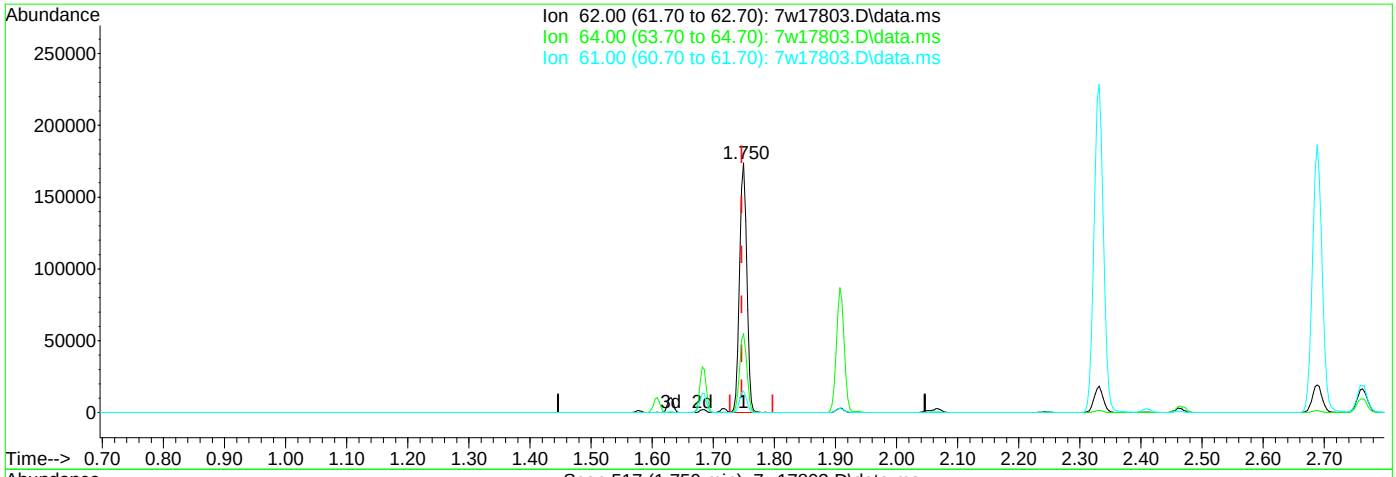
response 143146

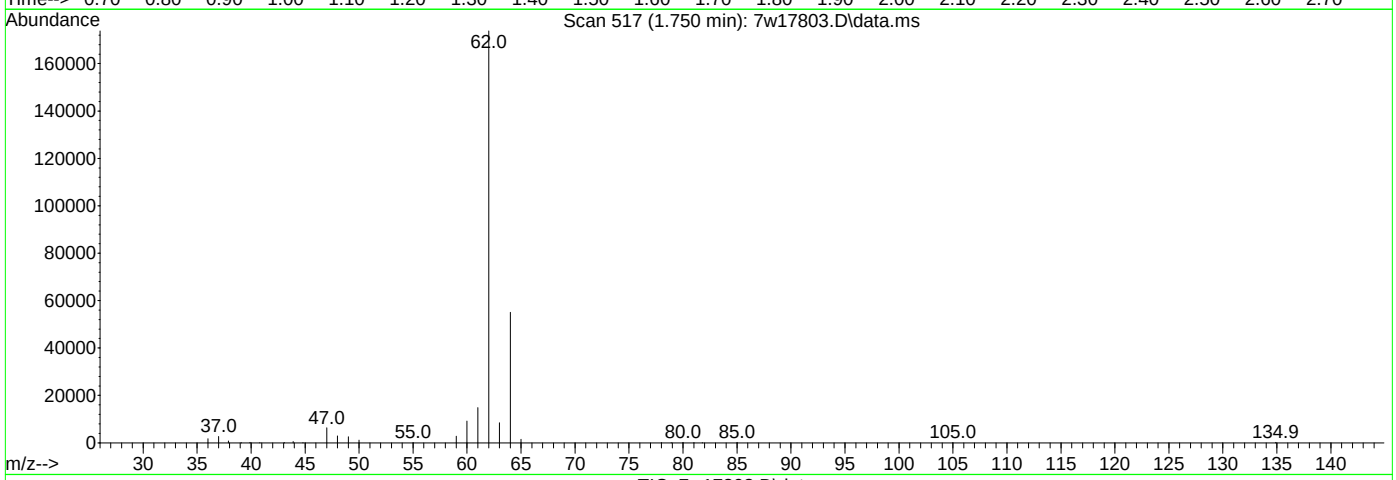
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.17
61.00	8.10	8.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17803.D
Acq On : 13 Oct 2025 12:37 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:29:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17803.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.73PPBV m

response 141171

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.61
61.00	8.10	8.79
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/13/25 17:36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18505.D
Acq On : 12 Nov 2025 12:15 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:17:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	123667	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	570449	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	553940	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	123667	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	408549	9.16	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	172159	11.4757	PPBV		88
3) FREON 152A	1.605	65	76050	9.8261	PPBV		97
4) CHLORODIFLUOROMETHANE	1.618	67	35494	10.5634	PPBV		94
5) CHLOROTRIFLUOROETHENE	1.631	116	182293	11.2752	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.643	85	324165m	10.9452	PPBV		
7) PROPYLENE	1.627	41	100592	10.0420	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	297668	11.2965	PPBV		97
9) FREON 114	1.714	85	298974	9.7934	PPBV		89
10) CHLOROMETHANE	1.688	52	43838	10.3212	PPBV		96
11) VINYL CHLORIDE	1.746	62	142246m	9.4579	PPBV		
12) 1,3-BUTADIENE	1.785	54	122490	10.3110	PPBV		93
13) N-BUTANE	1.801	43	195848	9.7430	PPBV		97
14) BROMOMETHANE	1.859	94	106721	9.1510	PPBV		99
15) CHLOROETHANE	1.907	64	72719	8.9078	PPBV		92
16) DICHLOROFLUOROMETHANE	1.930	67	259024	9.1626	PPBV		98
17) ACETONITRILE	1.997	41	112017	7.9744	PPBV		100
18) ACROLEIN	2.036	56	69363	10.3948	PPBV		95
19) FREON 123	2.049	83	257940	9.0559	PPBV	#	91
20) FREON 123A	2.068	117	194054	11.5001	PPBV		79
21) TRICHLOROFLUOROMETHANE	2.129	101	358715	11.1517	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	281145	10.3141	PPBV		98
23) ACETONE	2.074	58	78462	10.5281	PPBV		96
24) PENTANE	2.241	42	141493	9.5846	PPBV		97
25) IODOMETHANE	2.303	142	342276	11.5654	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.331	96	113527	9.2588	PPBV		83
27) CARBON DISULFIDE	2.466	76	285672	8.2112	PPBV		96
28) ETHANOL	1.933	45	64273	8.8569	PPBV		98
29) BROMOETHENE	2.007	106	115644	9.8770	PPBV		99
30) ACRYLONITRILE	2.212	52	118805	11.3364	PPBV		97
31) METHYLENE CHLORIDE	2.367	84	94970	7.9012	PPBV		83
32) 3-CHLOROPROPENE	2.409	76	50835	7.7510	PPBV		70
33) FREON 113	2.463	151	210327	11.3881	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.688	96	112504	8.3395	PPBV		89
35) TERTIARY BUTYL ALCOHOL	2.341	59	282736	8.3021	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.794	73	312230	8.1363	PPBV		97
37) TETRAHYDROFURAN	3.473	72	46886	7.5335	PPBV		77
38) HEXANE	3.241	57	266848	10.3237	PPBV		95
39) VINYL ACETATE	2.830	86	30664	8.3135	PPBV		66
40) 1,1-DICHLOROETHANE	2.762	63	249661	9.5731	PPBV		98
41) METHYL ETHYL KETONE	2.923	72	53602	7.5997	PPBV	#	59
42) CIS-1,2-DICHLOROETHENE	3.119	96	122076	8.7238	PPBV		88
43) DIISOPROPYL ETHER	3.248	59	73727	10.0603	PPBV		91
44) ETHYL ACETATE	3.251	61	49998	10.0916	PPBV		97
45) METHYL ACRYLATE	3.238	55	331120	10.5865	PPBV	#	99
46) CHLOROFORM	3.264	83	246252	9.1233	PPBV		96
47) 2,4-DIMETHYLPENTANE	3.746	57	310231	10.7234	PPBV		96
48) 1,1,1-TRICHLOROETHANE	3.823	97	284613	10.0051	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	330686	11.2212	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18505.D
Acq On : 12 Nov 2025 12:15 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:17:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	213492	10.1749	PPBV	99
51)	BENZENE	4.129	78	319949	7.7273	PPBV	87
53)	CYCLOHEXANE	4.335	84	145619	8.7254	PPBV #	69
54)	2,3-DIMETHYLPENTANE	4.585	71	73430	8.8228	PPBV #	46
55)	TRICHLOROETHENE	5.013	95	165667	9.3120	PPBV	91
56)	1,2-DICHLOROPROPANE	4.785	63	160233	10.1901	PPBV	98
57)	DIBROMOMETHANE	4.743	174	165383	10.9090	PPBV	90
58)	ETHYL ACRYLATE	4.900	55	414078	11.7651	PPBV	98
59)	BROMODICHLOROMETHANE	4.962	83	282350	9.8229	PPBV	98
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	833241	10.8181	PPBV	99
61)	1,4-DIOXANE	5.026	88	77618	9.2168	PPBV	83
62)	HEPTANE	5.421	43	267772	10.5291	PPBV	89
63)	METHYL METHACRYLATE	5.318	69	122291	8.5573	PPBV	83
64)	METHYL ISOBUTYL KETONE	6.039	58	157765	10.3447	PPBV	93
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	215885	8.9538	PPBV	96
66)	TOLUENE	7.129	91	433673	9.5744	PPBV	99
67)	1,3-DICHLOROPROPANE	7.187	76	215730	9.5001	PPBV	99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	195957	8.9954	PPBV	98
69)	1,1,2-TRICHLOROETHANE	6.765	83	120487	9.3350	PPBV	92
70)	2-HEXANONE	7.698	58	209795	9.8588	PPBV	93
71)	ETHYL METHACRYLATE	7.833	69	211816	8.8856	PPBV	89
72)	TETRACHLOROETHENE	8.846	164	197569	11.9582	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.659	129	330971	12.6182	PPBV	99
74)	1,2-DIBROMOETHANE	7.997	107	262521	11.2428	PPBV	100
75)	OCTANE	8.994	43	372553	10.9360	PPBV	92
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	237794	11.9627	PPBV	95
78)	CHLOROBENZENE	10.045	112	382253	10.1012	PPBV	95
79)	ETHYLBENZENE	10.920	91	606409	9.7792	PPBV	98
80)	M,P-XYLENE	11.347	91	952510	18.9617	PPBV	99
81)	O-XYLENE	12.276	91	488104	10.0113	PPBV	97
82)	STYRENE	12.067	104	381238	10.4303	PPBV	98
83)	NONANE	13.395	43	397311	10.4689	PPBV	93
84)	BROMOFORM	11.157	173	299034	12.7883	PPBV	97
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	322043	9.2211	PPBV	95
86)	1,2,3-TRICHLOROPROPANE	12.575	75	263867	9.6400	PPBV	100
88)	ISOPROPYLBENZENE	13.788	120	200670	10.8273	PPBV	91
89)	BROMOBENZENE	13.649	77	319669	8.9807	PPBV	81
90)	2-CHLOROTOLUENE	14.781	126	183775	10.6316	PPBV	99
91)	N-PROPYLBENZENE	15.128	120	210718	10.7121	PPBV	99
92)	4-ETHYLTOLUENE	15.569	105	749749	10.2991	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	637797	10.5272	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.173	118	320432	10.6643	PPBV	99
95)	TERT-BUTYLBENZENE	16.498	134	159351	10.7877	PPBV	96
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	658422	10.9622	PPBV	97
97)	BENZYL CHLORIDE	16.598	91	464164	9.5657	PPBV	98
98)	M-DICHLOROBENZENE	16.569	146	452016	10.9538	PPBV	98
99)	P-DICHLOROBENZENE	16.662	146	455924	11.2125	PPBV	98
100)	O-DICHLOROBENZENE	16.984	146	425631	11.1192	PPBV	98
101)	SEC-BUTYLBENZENE	16.813	134	195364	11.1068	PPBV	92
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	632868	10.5109	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.009	134	213596	10.9255	PPBV	93
104)	N-BUTYLBENZENE	17.376	134	211167	11.3296	PPBV	87
105)	HEXACHLOROETHANE	17.553	117	268948	11.7126	PPBV	99
106)	HEXACHLOROBUTADIENE	18.617	225	334750	12.2964	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.305	180	418924	12.8307	PPBV	98
108)	NAPHTHALENE	18.353	128	1022602	13.9619	PPBV	99
110)	TVHC as equiv Pentane	2.241	TIC	688283	9.8607	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18505.D
Acq On : 12 Nov 2025 12:15 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:17:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

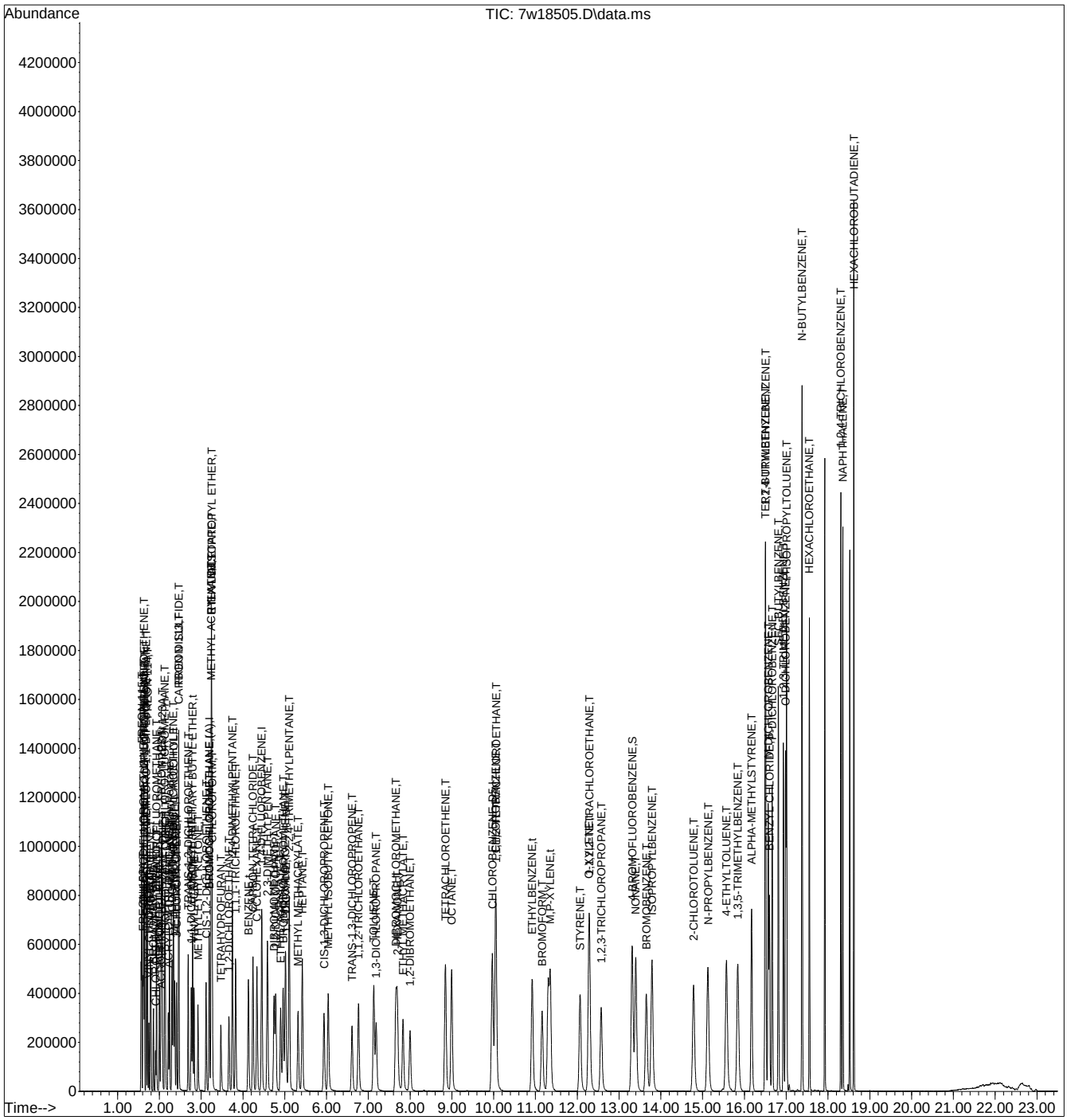
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18505.D
Acq On : 12 Nov 2025 12:15 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:17:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

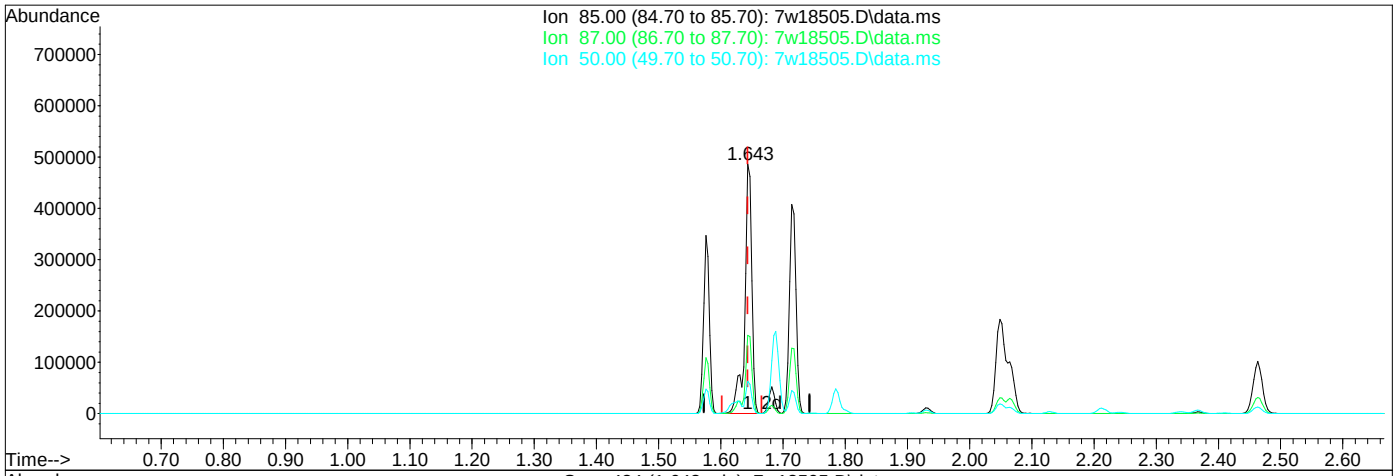
Sample Number: V7W647-BS
Lab FileID: 7W18505.D
Injection Time: 11/12/25 12:15
Method: TO-15
Analyst approved: 11/13/25 05:26 Geralyn Gomez
Supervisor approved: 11/13/25 17:36 Kanya Veerawat

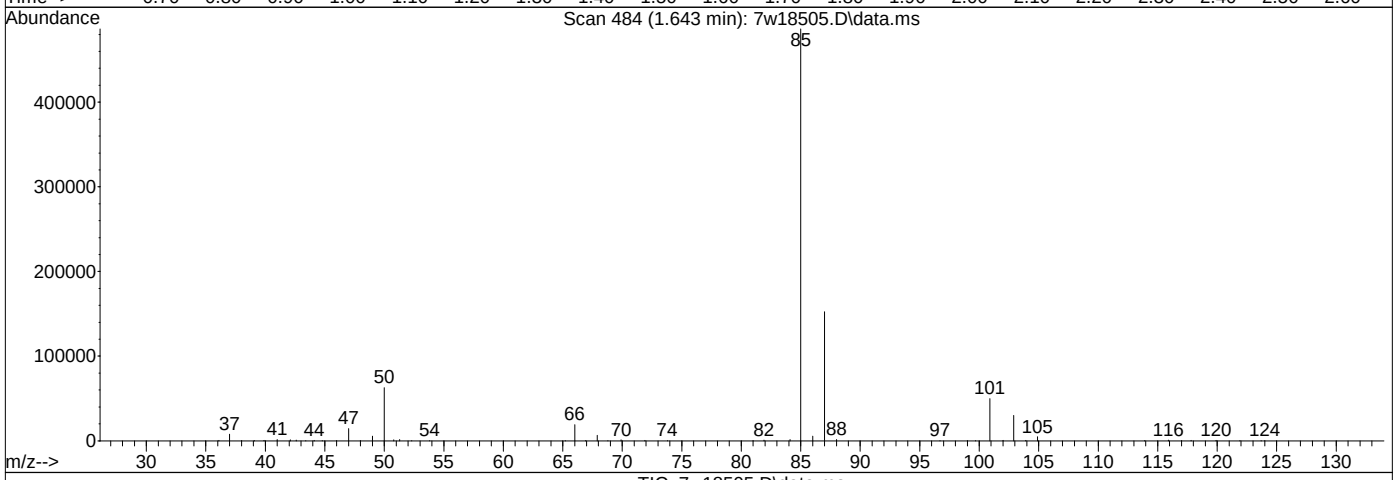
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18505.D
Acq On : 12 Nov 2025 12:15 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:07:05 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18505.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 12.76PPBV

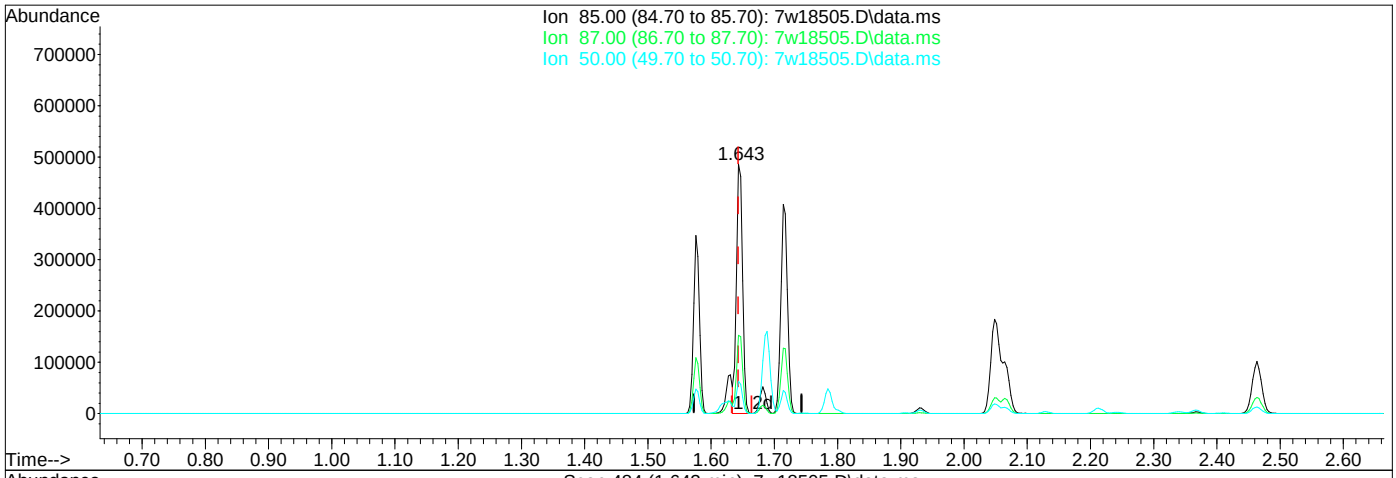
response 377864

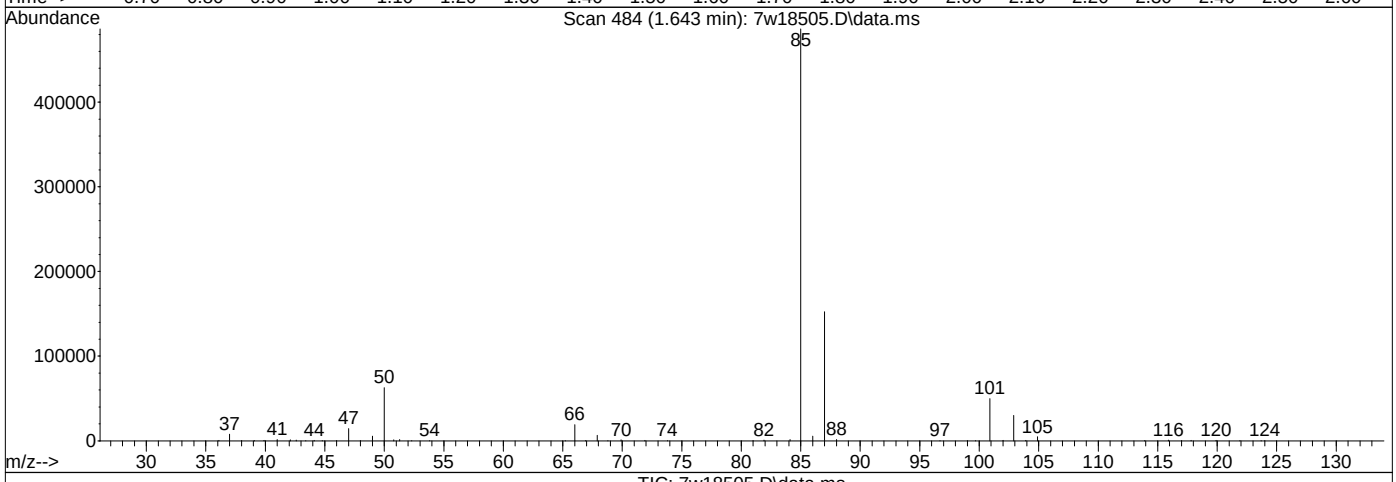
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.04
50.00	19.30	18.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18505.D
Acq On : 12 Nov 2025 12:15 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:07:05 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18505.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 10.95PPBV m

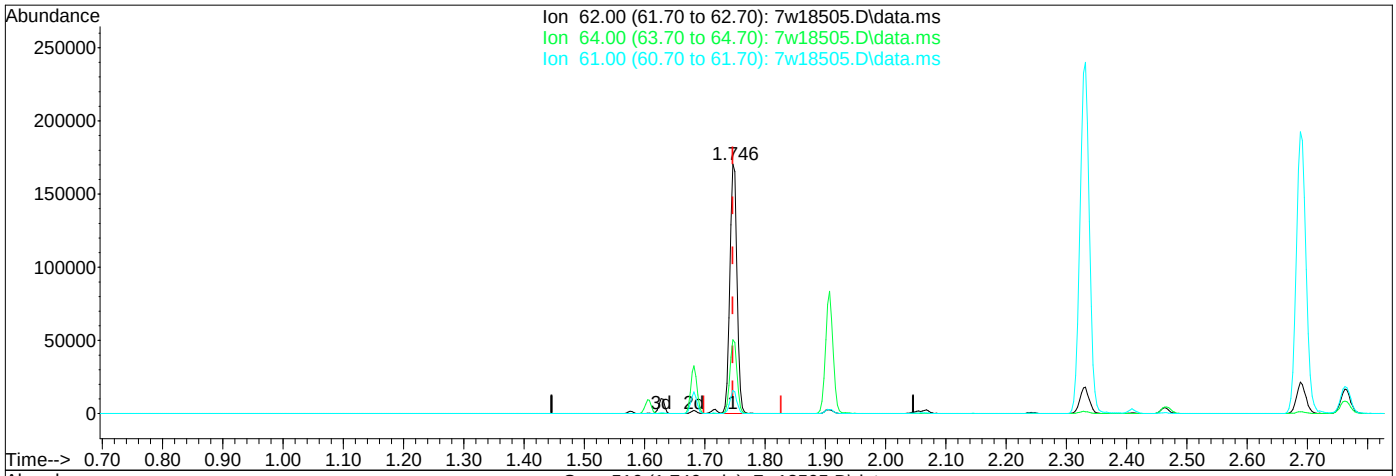
response 324165

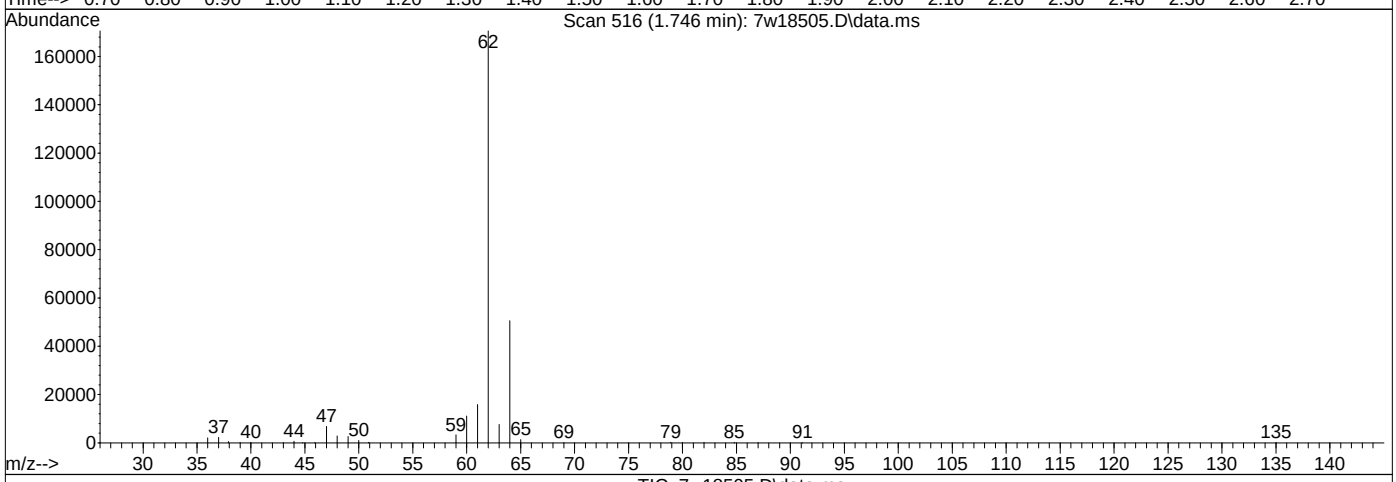
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.35
50.00	19.30	22.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18505.D
Acq On : 12 Nov 2025 12:15 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:07:05 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18505.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 9.60PPBV

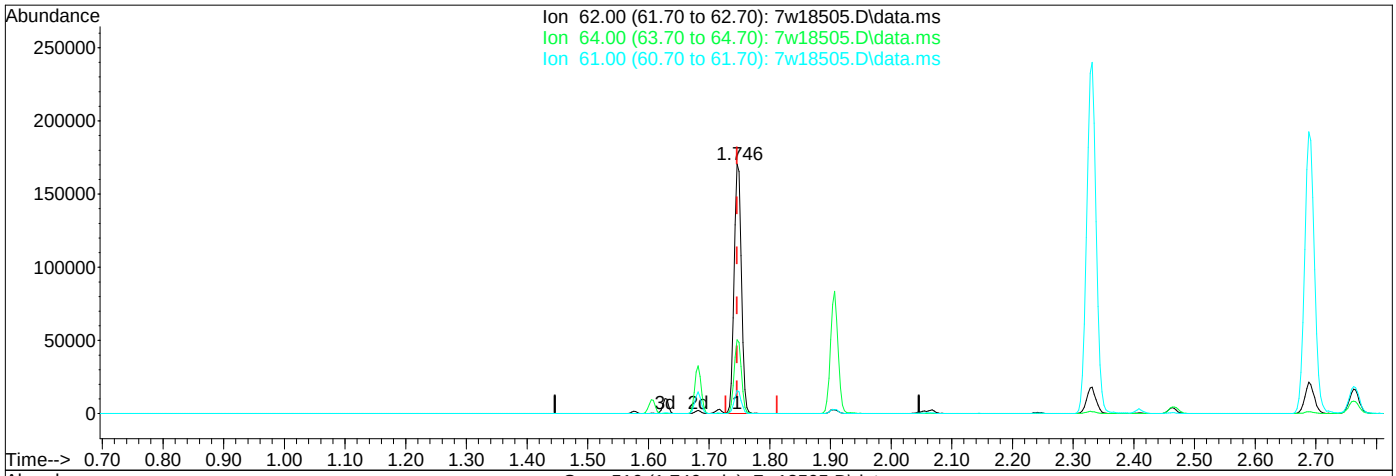
response 144406

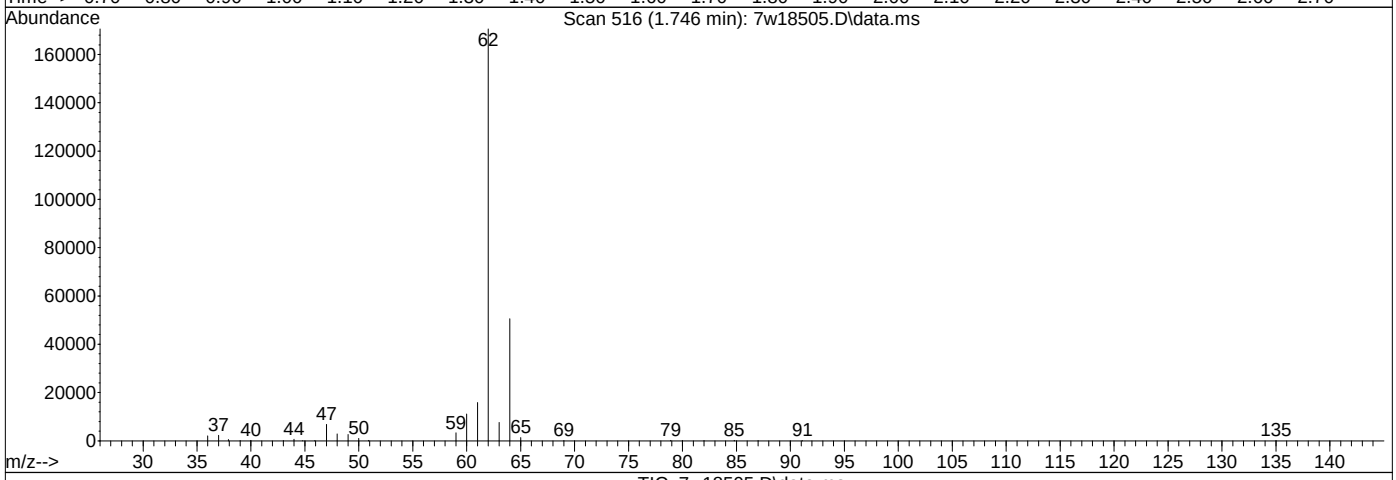
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	29.17
61.00	8.10	9.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18505.D
Acq On : 12 Nov 2025 12:15 pm
Operator : thomash
Sample : bs Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:07:05 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18505.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 9.46PPBV m

response 142246

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	29.62
61.00	8.10	9.26
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/13/25 17:36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18506.D
Acq On : 12 Nov 2025 12:53 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:18:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	125671	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	576768	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	560447	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	125671	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	409598	9.08	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	177212	11.6242	PPBV		88
3) FREON 152A	1.605	65	79669	10.1296	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	35780	10.4787	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.627	116	185425	11.2860	PPBV		96
6) DICHLORODIFLUOROMETHANE	1.644	85	332091m	11.0340	PPBV		
7) PROPYLENE	1.627	41	105645	10.3782	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	309487	11.5577	PPBV		98
9) FREON 114	1.714	85	309375	9.9725	PPBV		90
10) CHLOROMETHANE	1.689	52	47363	10.9733	PPBV		92
11) VINYL CHLORIDE	1.746	62	149654	9.7918	PPBV		98
12) 1,3-BUTADIENE	1.785	54	131612	10.9022	PPBV		93
13) N-BUTANE	1.801	43	214660	10.5086	PPBV		98
14) BROMOMETHANE	1.859	94	110349	9.3113	PPBV		100
15) CHLOROETHANE	1.907	64	75967	9.1573	PPBV		91
16) DICHLOROFLUOROMETHANE	1.930	67	271224	9.4412	PPBV		98
17) ACETONITRILE	1.997	41	124675	8.7340	PPBV		98
18) ACROLEIN	2.036	56	74593	11.0003	PPBV		97
19) FREON 123	2.049	83	273392	9.4453	PPBV	#	93
20) FREON 123A	2.065	117	198218	11.5596	PPBV		82
21) TRICHLOROFLUOROMETHANE	2.129	101	368656	11.2780	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	306697	11.0721	PPBV		98
23) ACETONE	2.071	58	83552	11.0323	PPBV		96
24) PENTANE	2.242	42	155306	10.3525	PPBV		98
25) IODOMETHANE	2.303	142	352438	11.7189	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.332	96	121532	9.7536	PPBV		85
27) CARBON DISULFIDE	2.463	76	299343	8.4669	PPBV		95
28) ETHANOL	1.933	45	70141	9.5114	PPBV		100
29) BROMOETHENE	2.004	106	119058	10.0064	PPBV		100
30) ACRYLONITRILE	2.213	52	128761	12.0905	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	99557	8.1507	PPBV		77
32) 3-CHLOROPROPENE	2.409	76	54125	8.1211	PPBV		68
33) FREON 113	2.463	151	215442	11.4790	PPBV		91
34) TRANS-1,2-DICHLOROETHENE	2.688	96	116571	8.5032	PPBV		86
35) TERTIARY BUTYL ALCOHOL	2.341	59	301110	8.7007	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	325454	8.3457	PPBV		97
37) TETRAHYDROFURAN	3.470	72	48471	7.6640	PPBV		74
38) HEXANE	3.242	57	277684	10.5716	PPBV		94
39) VINYL ACETATE	2.830	86	31695	8.4560	PPBV		63
40) 1,1-DICHLOROETHANE	2.762	63	265606	10.0221	PPBV		98
41) METHYL ETHYL KETONE	2.923	72	54968	7.6691	PPBV	#	53
42) CIS-1,2-DICHLOROETHENE	3.116	96	126599	8.9028	PPBV		88
43) DIISOPROPYL ETHER	3.245	59	76482	10.2698	PPBV		93
44) ETHYL ACETATE	3.248	61	53147	10.5562	PPBV		94
45) METHYL ACRYLATE	3.238	55	345830	10.8805	PPBV	#	98
46) CHLOROFORM	3.264	83	254864	9.2918	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	323342	10.9984	PPBV		95
48) 1,1,1-TRICHLOROETHANE	3.823	97	288410	9.9769	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	337247	11.2613	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18506.D
Acq On : 12 Nov 2025 12:53 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:18:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	219646	10.3012	PPBV		99
51)	BENZENE	4.129	78	335050	7.9629	PPBV		87
53)	CYCLOHEXANE	4.335	84	151718	8.9912	PPBV	#	68
54)	2,3-DIMETHYLPENTANE	4.585	71	75709	8.9970	PPBV	#	45
55)	TRICHLOROETHENE	5.013	95	171201	9.5176	PPBV		90
56)	1,2-DICHLOROPROPANE	4.782	63	166631	10.4809	PPBV		98
57)	DIBROMOMETHANE	4.743	174	169448	11.0547	PPBV		90
58)	ETHYL ACRYLATE	4.901	55	434379	12.2067	PPBV		98
59)	BROMODICHLOROMETHANE	4.958	83	288184	9.9160	PPBV		97
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	875454	11.2417	PPBV		99
61)	1,4-DIOXANE	5.026	88	82069	9.6386	PPBV		84
62)	HEPTANE	5.418	43	280453	10.9069	PPBV		89
63)	METHYL METHACRYLATE	5.315	69	127745	8.8410	PPBV		81
64)	METHYL ISOBUTYL KETONE	6.039	58	164080	10.6409	PPBV		94
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	223853	9.1826	PPBV		96
66)	TOLUENE	7.129	91	453503	9.9025	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	223494	9.7342	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	204719	9.2947	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.762	83	127374	9.7605	PPBV		93
70)	2-HEXANONE	7.695	58	218938	10.1757	PPBV		94
71)	ETHYL METHACRYLATE	7.830	69	220207	9.1363	PPBV		89
72)	TETRACHLOROETHENE	8.846	164	202987	12.1515	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.663	129	340457	12.8377	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	271731	11.5098	PPBV		100
75)	OCTANE	8.994	43	391999	11.3808	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	242654	12.0655	PPBV		96
78)	CHLOROBENZENE	10.042	112	398315	10.4034	PPBV		94
79)	ETHYLBENZENE	10.926	91	626796	9.9906	PPBV		98
80)	M,P-XYLENE	11.351	91	984606	19.3731	PPBV		98
81)	O-XYLENE	12.277	91	502571	10.1883	PPBV		98
82)	STYRENE	12.064	104	394063	10.6560	PPBV		98
83)	NONANE	13.399	43	410747	10.6973	PPBV		93
84)	BROMOFORM	11.154	173	305868	12.9287	PPBV		98
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	332127	9.3995	PPBV		96
86)	1,2,3-TRICHLOROPROPANE	12.576	75	272265	9.8314	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	203596	10.8576	PPBV		92
89)	BROMOBENZENE	13.646	77	331443	9.2033	PPBV		82
90)	2-CHLOROTOLUENE	14.781	126	188700	10.7898	PPBV		100
91)	N-PROPYLBENZENE	15.125	120	216021	10.8542	PPBV		99
92)	4-ETHYLTOLUENE	15.569	105	764801	10.3839	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	653980	10.6689	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.173	118	329249	10.8305	PPBV		99
95)	TERT-BUTYLBENZENE	16.495	134	163338	10.9293	PPBV		95
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	671963	11.0578	PPBV		96
97)	BENZYL CHLORIDE	16.598	91	483005	9.8384	PPBV		98
98)	M-DICHLOROBENZENE	16.569	146	461075	11.0436	PPBV		98
99)	P-DICHLOROBENZENE	16.662	146	466681	11.3438	PPBV		98
100)	O-DICHLOROBENZENE	16.987	146	437883	11.3064	PPBV		98
101)	SEC-BUTYLBENZENE	16.813	134	201325	11.3128	PPBV		91
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	651280	10.6911	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	219437	11.0939	PPBV		95
104)	N-BUTYLBENZENE	17.376	134	216658	11.4892	PPBV		87
105)	HEXACHLOROETHANE	17.553	117	278092	11.9702	PPBV		99
106)	HEXACHLOROBUTADIENE	18.620	225	341299	12.3914	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.305	180	429189	12.9925	PPBV		99
108)	NAPHTHALENE	18.353	128	1056410	14.2560	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	745182	10.5056	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18506.D
Acq On : 12 Nov 2025 12:53 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:18:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

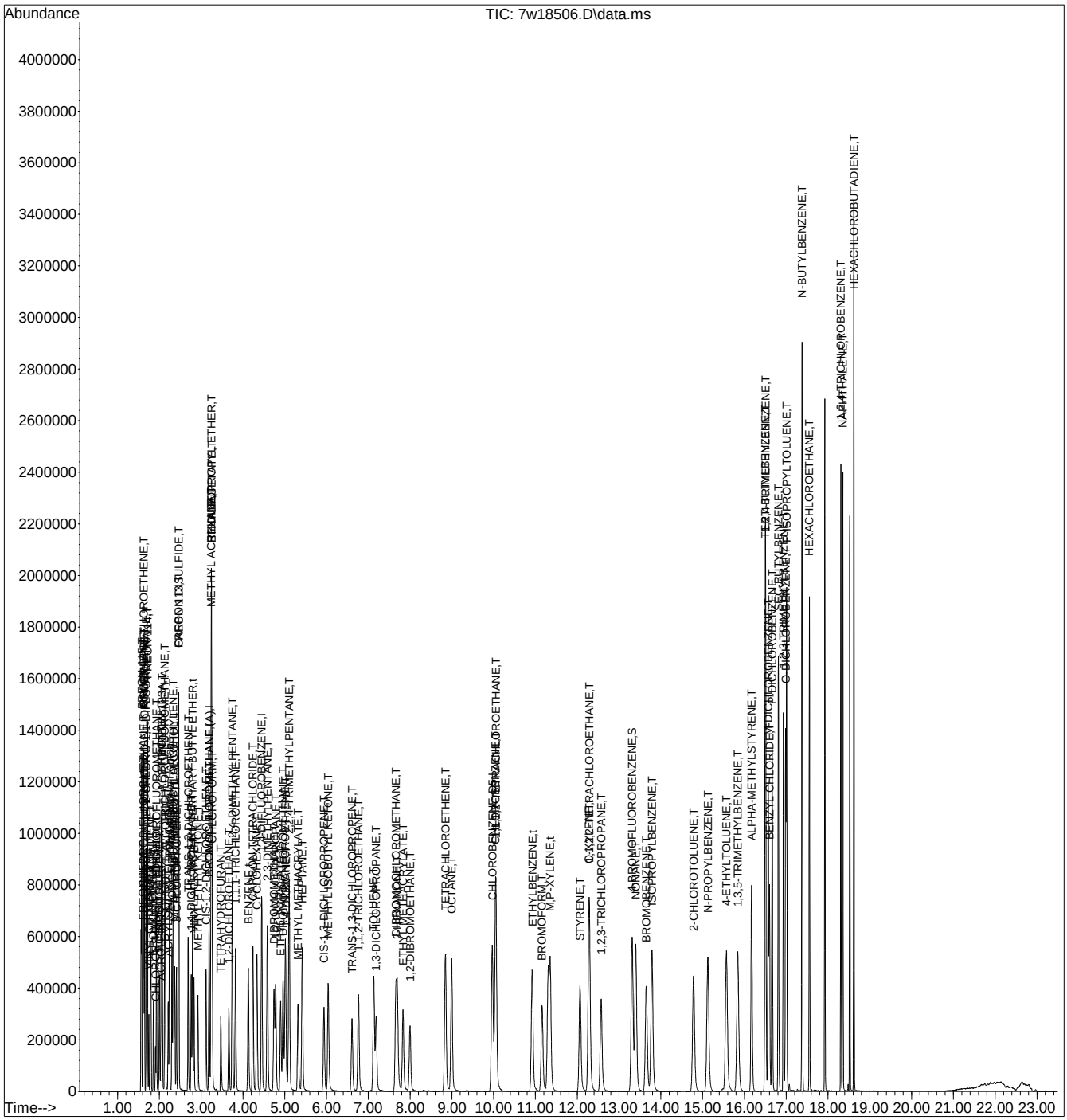
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18506.D
Acq On : 12 Nov 2025 12:53 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:18:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

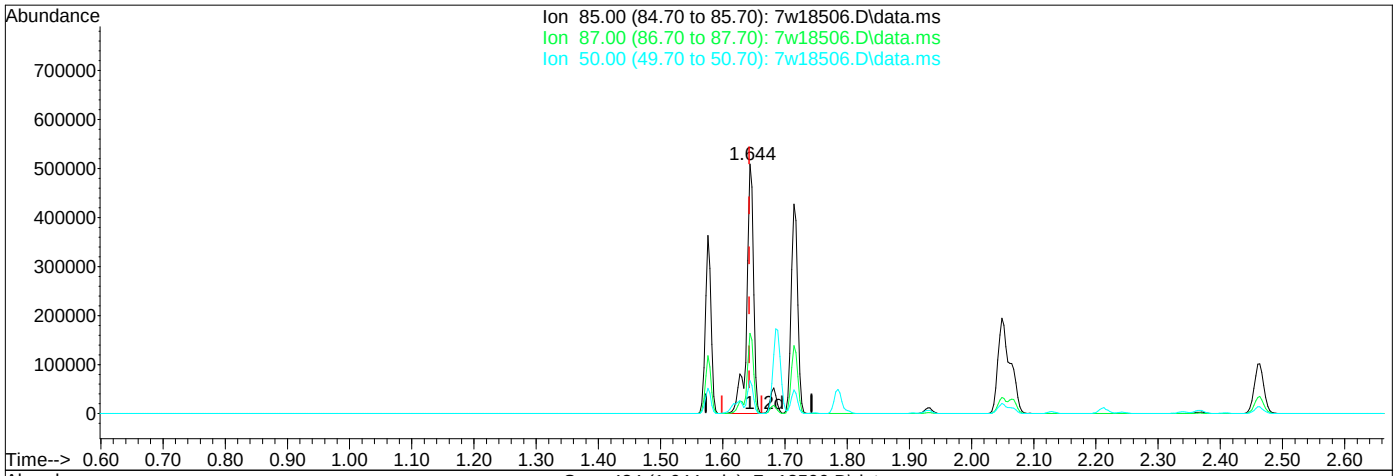
Sample Number: V7W647-BSD
Lab FileID: 7W18506.D
Injection Time: 11/12/25 12:53
Method: TO-15
Analyst approved: 11/13/25 05:26 Geralyn Gomez
Supervisor approved: 11/13/25 17:36 Kanya Veerawat

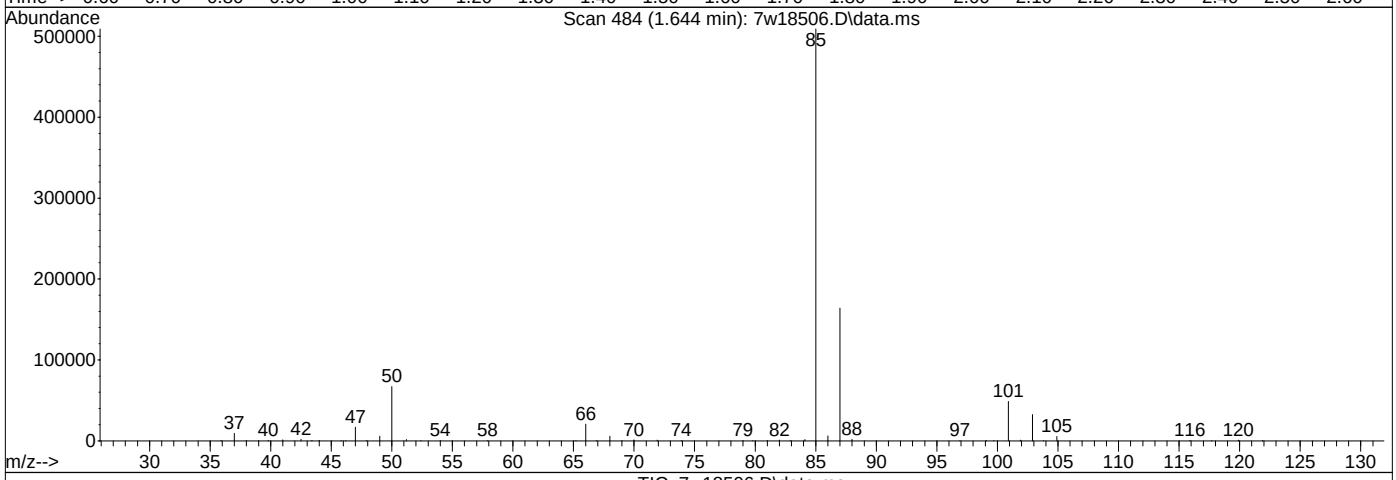
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18506.D
Acq On : 12 Nov 2025 12:53 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:07:30 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18506.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 12.96PPBV

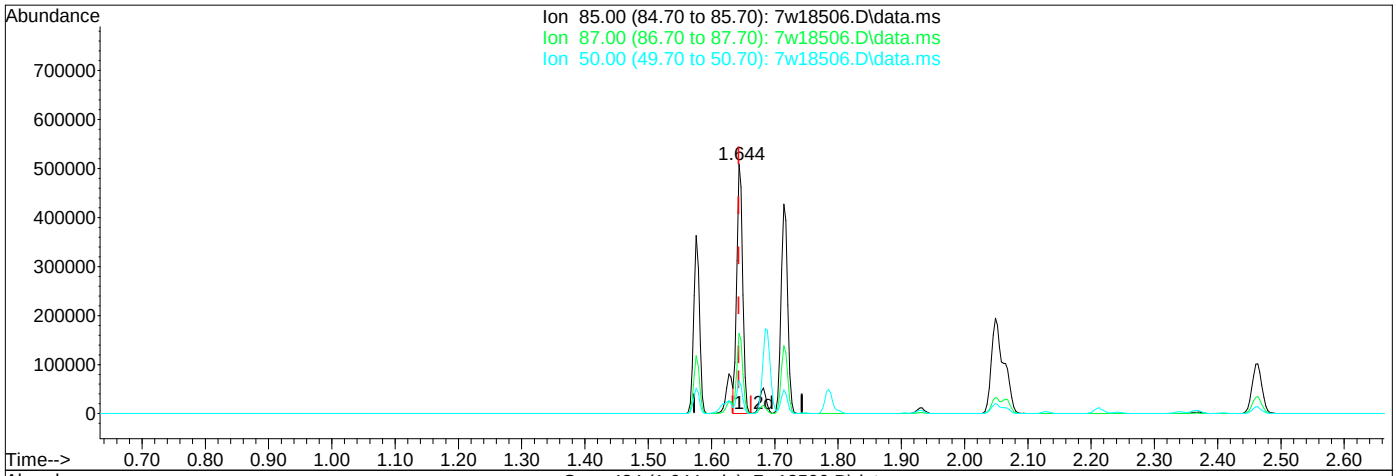
response 390065

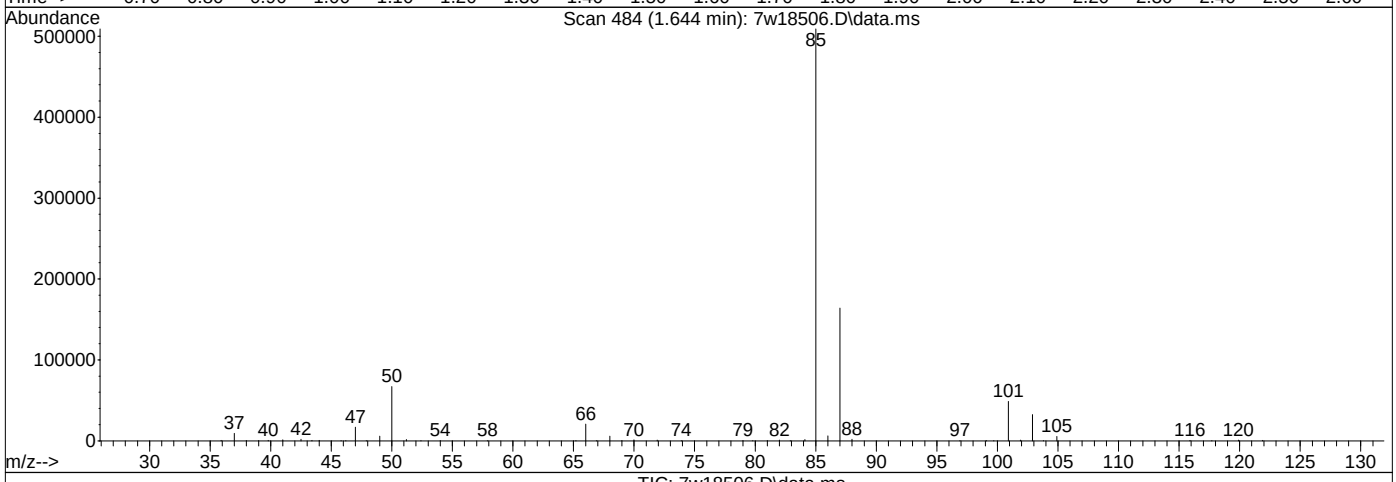
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.52
50.00	19.30	18.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18506.D
Acq On : 12 Nov 2025 12:53 pm
Operator : thomash
Sample : bsd Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:07:30 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18506.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 11.03PPBV m

response 332091

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.20
50.00	19.30	22.03
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

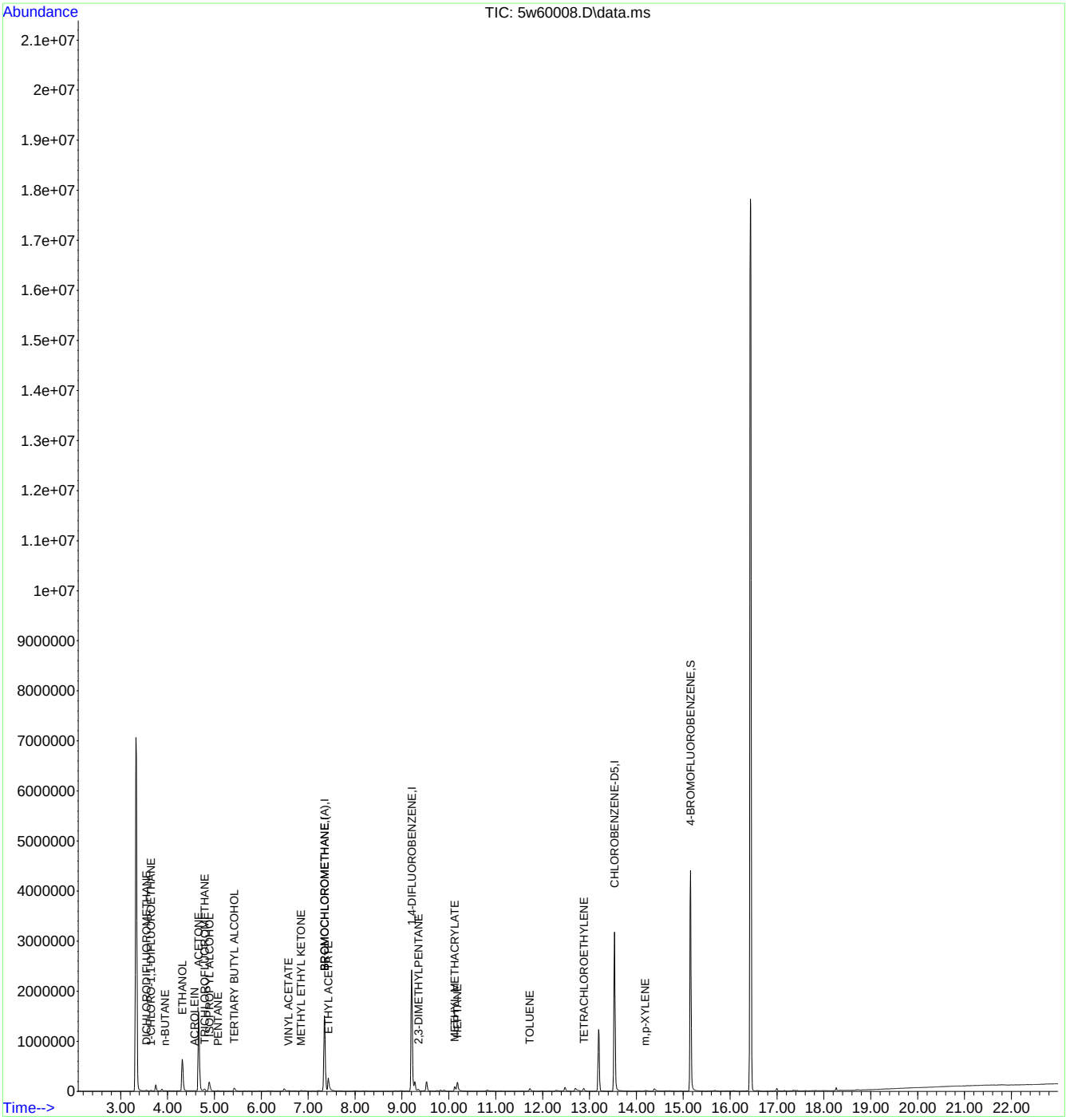
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	490041	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2190031	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1089506	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	490778	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1484212	10.90	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.00%				
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	3.549	85	17723	0.1264	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13929	0.1226	PPBV		96
13) n-BUTANE	3.946	43	4731	0.1013	PPBV		92
18) ACROLEIN	4.577	56	3620	0.2388	PPBV		79
21) TRICHLOROFLUOROMETHANE	4.791	101	31215	0.2606	PPBV		99
22) ISOPROPYL ALCOHOL	4.888	45	300854	3.1308	PPBV		95
23) ACETONE	4.662	58	752725	39.1644	PPBV		89
24) PENTANE	5.072	42	5091	0.1020	PPBV		98
28) ETHANOL	4.313	45	842689	52.3433	PPBV		98
35) TERTIARY BUTYL ALCOHOL	5.421	59	84382	0.8587	PPBV		95
39) VINYL ACETATE	6.577	86	1682	0.2126	PPBV	#	89
41) METHYL ETHYL KETONE	6.840	72	7867	0.4156	PPBV		95
44) ETHYL ACETATE	7.427	61	58928	4.0742	PPBV		94
54) 2,3-DIMETHYLPENTANE	9.342	71	6241	0.2107	PPBV	#	92
62) HEPTANE	10.180	43	107980	1.2790	PPBV		78
63) METHYL METHACRYLATE	10.125	69	55112	1.1525	PPBV	#	73
66) TOLUENE	11.728	92	30163	0.2750	PPBV		94
73) TETRACHLOROETHYLENE	12.878	164	14795	0.1991	PPBV		97
80) m,p-XYLENE	14.194	106	8586	0.1043	PPBV		96

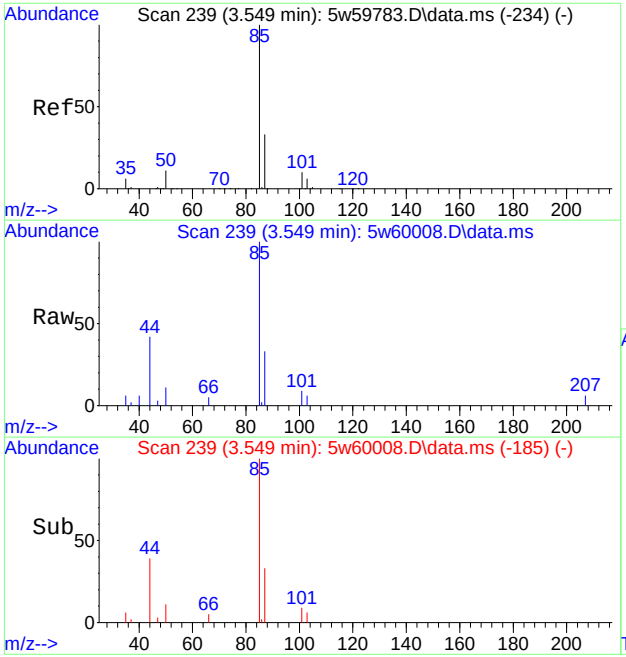
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\Dayton\MSAIR\Done\2025\11. November\11-26-2025\V5W2301\
Data File : 5w60008.D
Acq On : 24 Nov 2025 4:33 pm
Operator : benk
Sample : je23789-3dup
Misc : MS99437,V5W2301,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:37:56 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

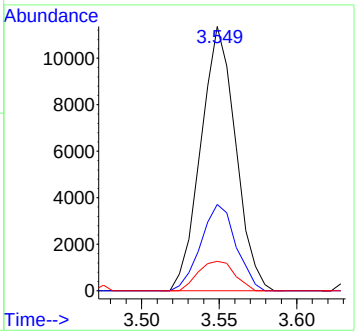


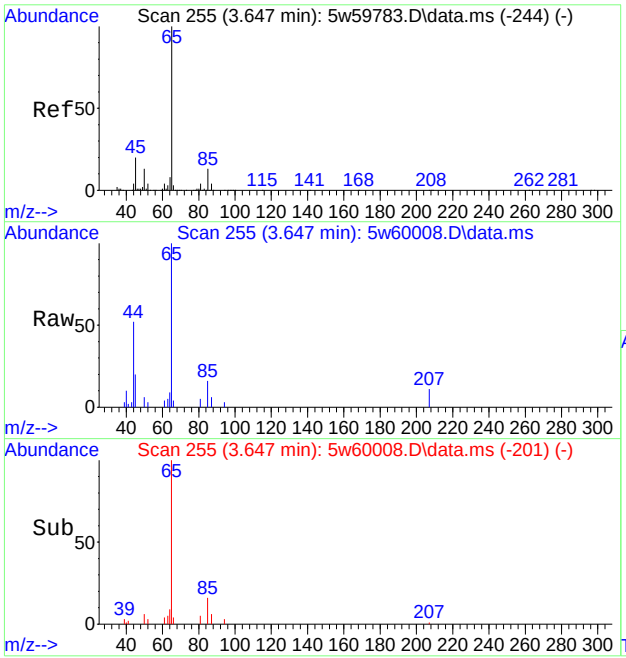


#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 85 Resp: 17723

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

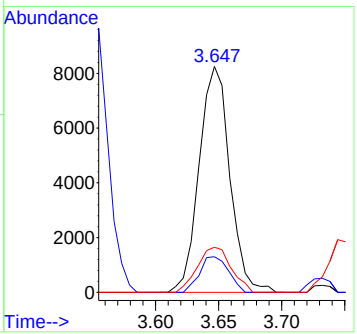


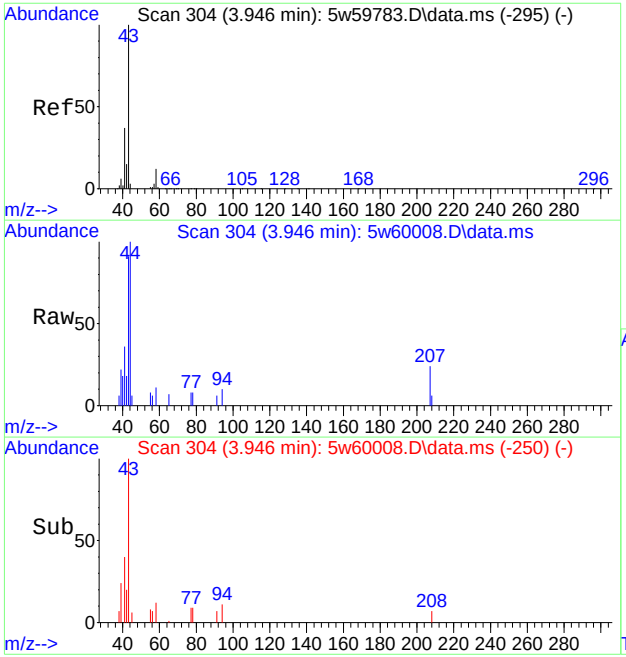


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.12 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 65 Resp: 13929

Ion	Ratio	Lower	Upper
65	100		
85	14.8	11.5	21.3
45	22.0	14.0	26.0

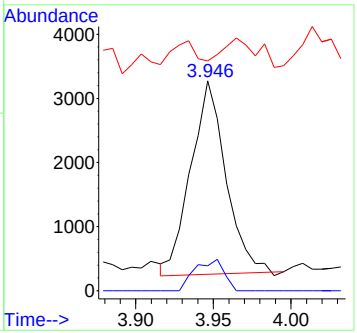


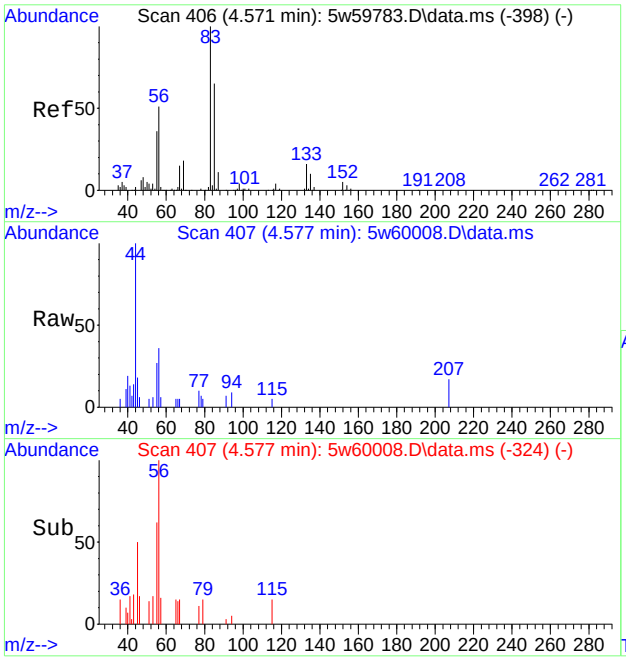


#13
n-BUTANE
Concen: 0.10 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 4731

Ion	Ratio	Lower	Upper
43	100		
58	13.4	0.0	42.6
44	13.1	0.0	34.9

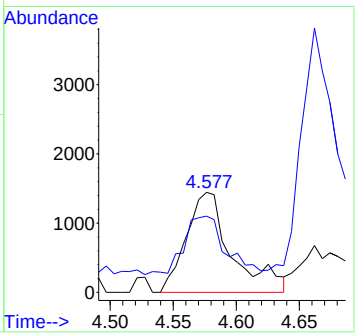


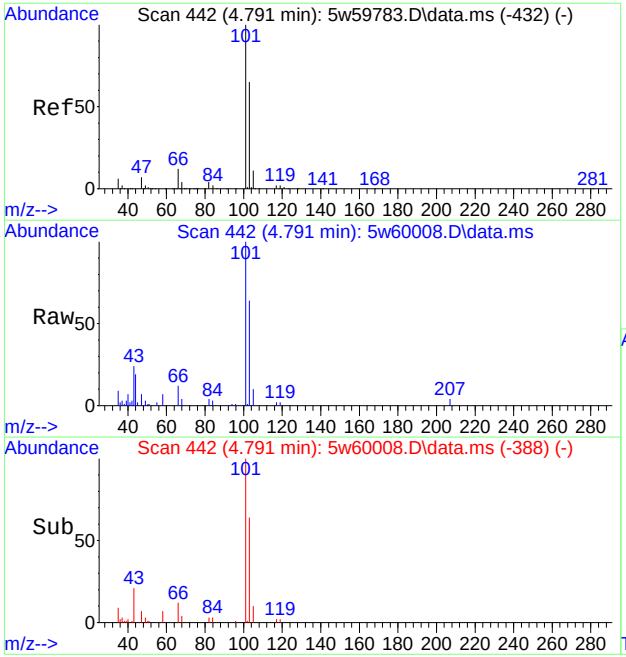


#18
ACROLEIN
Concen: 0.24 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 56 Resp: 3620

Ion	Ratio	Lower	Upper
56	100		
55	50.0	46.6	86.6

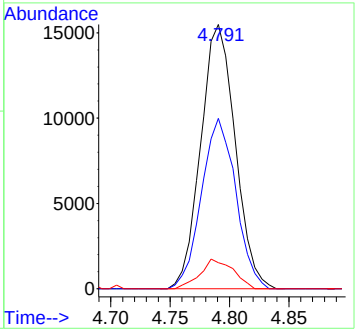


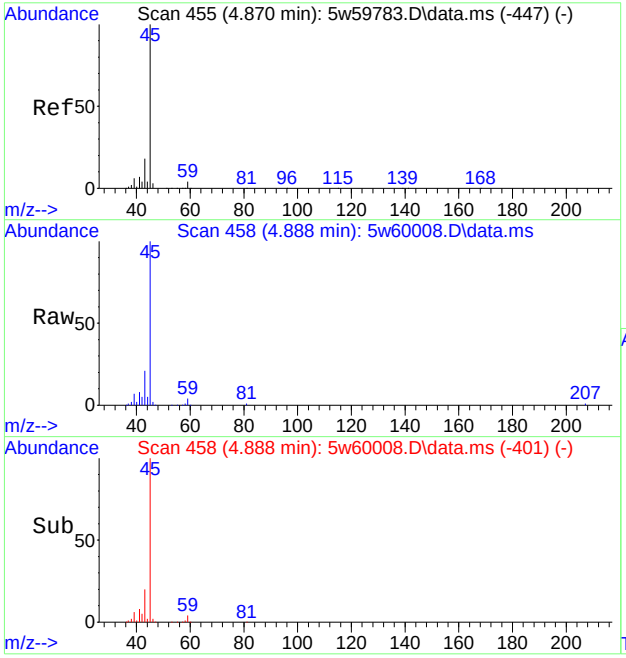


#21
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:101 Resp: 31215

Ion	Ratio	Lower	Upper
101	100		
103	64.1	35.0	95.0
105	10.8	0.0	40.7

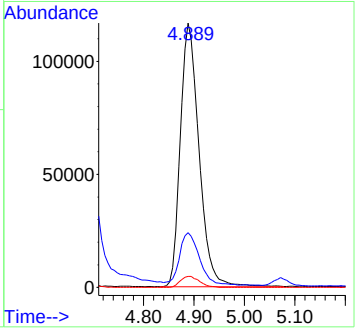


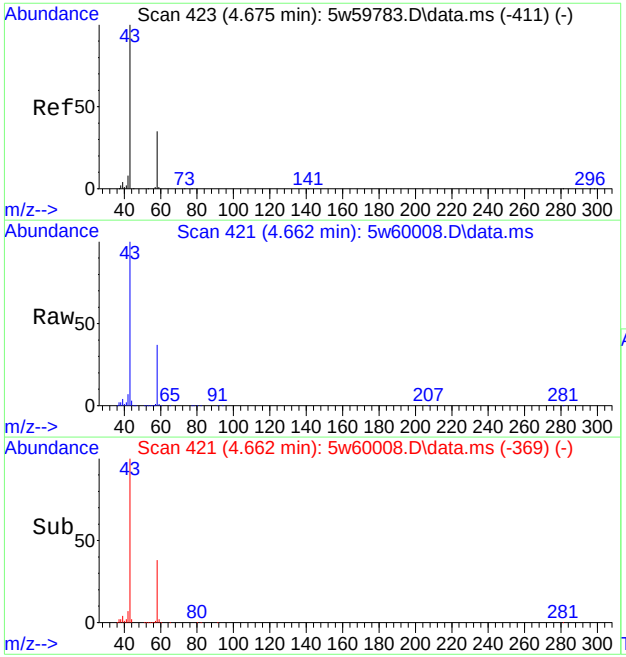


#22
ISOPROPYL ALCOHOL
Concen: 3.13 PPBV
RT: 4.888 min Scan# 458
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 300854

Ion	Ratio	Lower	Upper
45	100		
43	20.7	0.0	47.8
59	4.1	0.0	34.1

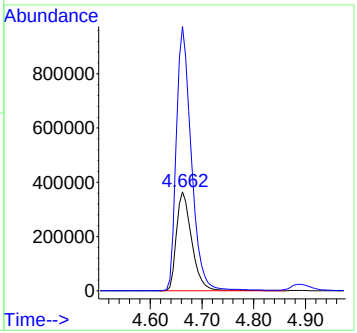


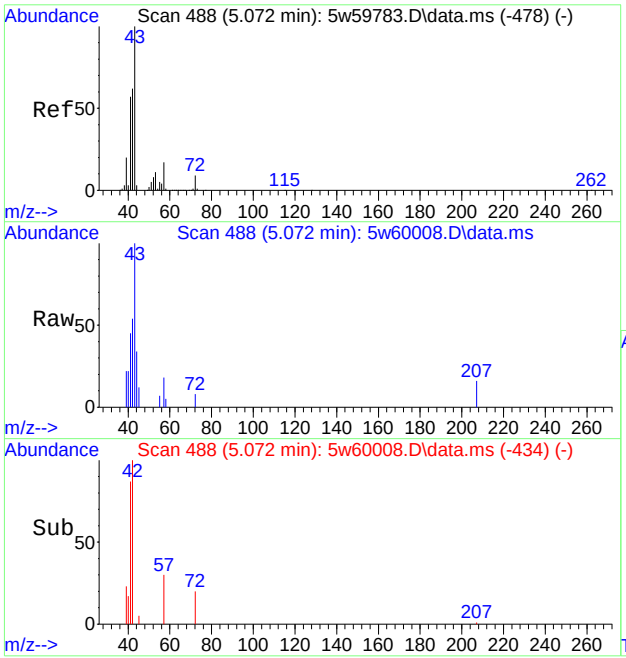


#23
ACETONE
Concen: 39.16 PPBV
RT: 4.662 min Scan# 421
Delta R.T. -0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 58 Resp: 752725

Ion	Ratio	Lower	Upper
58	100		
43	261.3	252.3	312.3

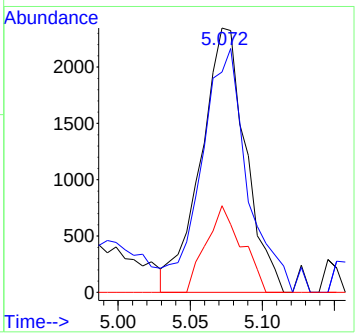


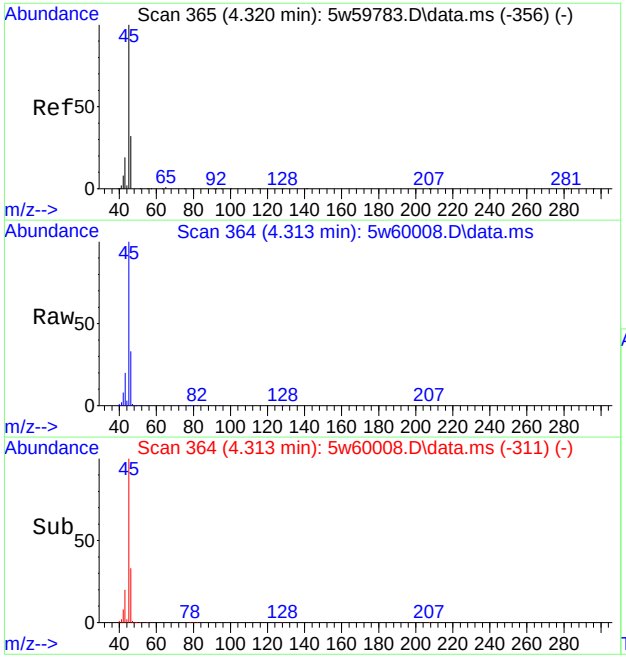


#24
PENTANE
Concen: 0.10 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 42 Resp: 5091

Ion	Ratio	Lower	Upper
42	100		
41	93.8	62.3	122.3
57	26.0	0.0	57.7

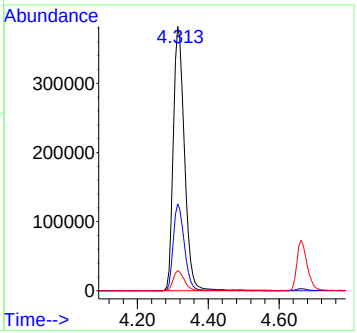


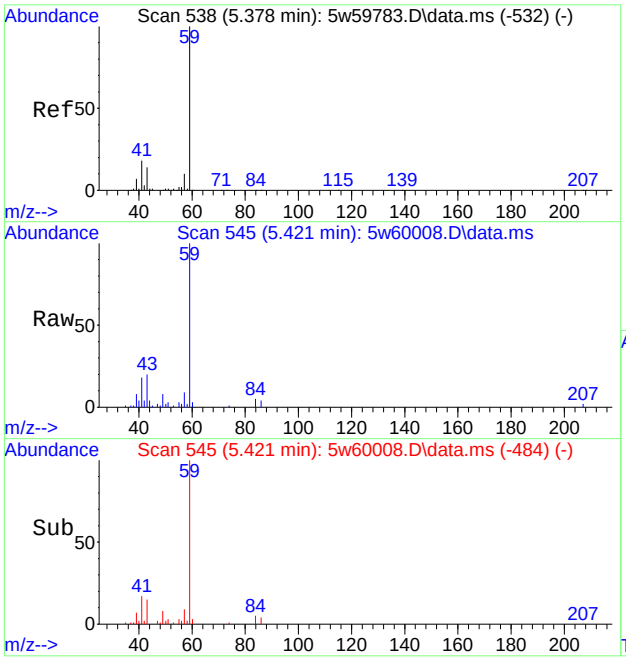


#28
ETHANOL
Concen: 52.34 PPBV
RT: 4.313 min Scan# 364
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 45 Resp: 842689

Ion	Ratio	Lower	Upper
45	100		
46	32.9	2.0	62.0
42	7.8	0.0	38.5

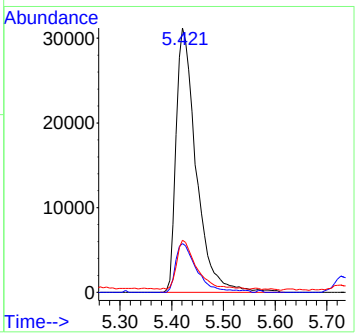


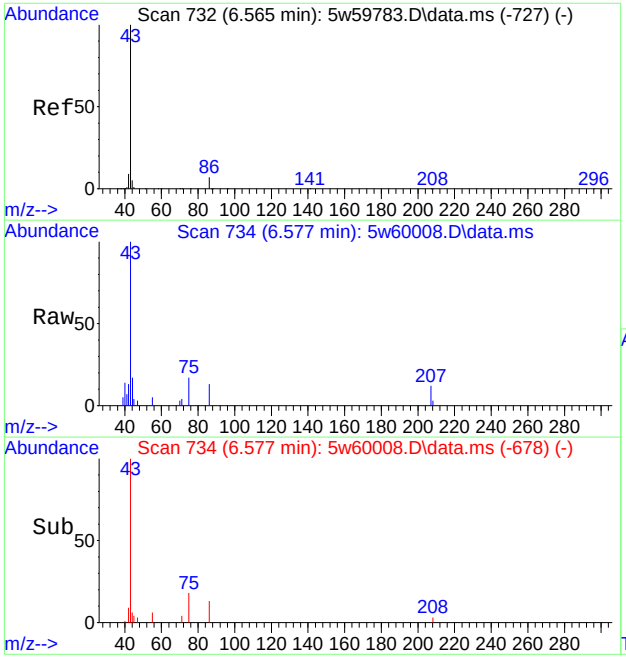


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.86 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 59 Resp: 84382

Ion	Ratio	Lower	Upper
59	100		
41	19.7	0.0	49.3
43	18.9	0.0	44.1

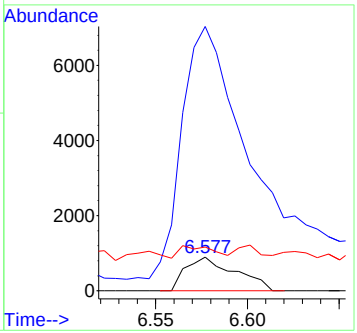


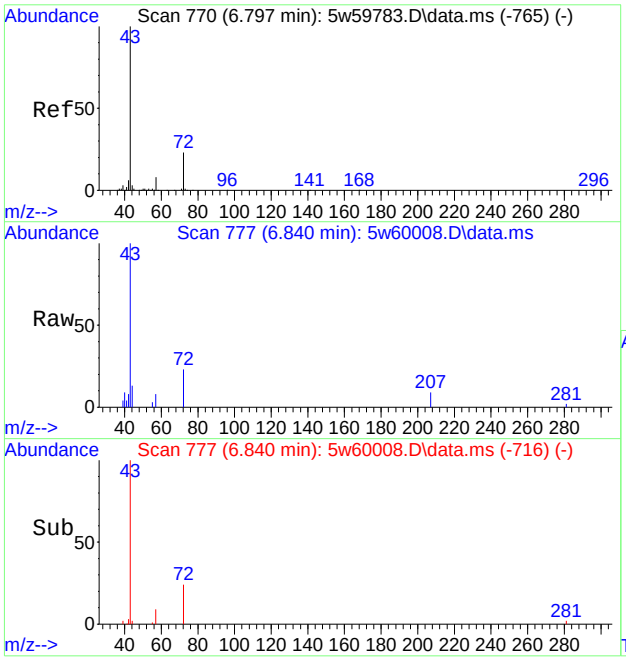


#39
VINYL ACETATE
Concen: 0.21 PPBV
RT: 6.577 min Scan# 734
Delta R.T. 0.012 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 86 Resp: 1682

Ion	Ratio	Lower	Upper
86	100		
43	1459.6	1379.7	1439.7#
44	24.5	36.9	96.9#

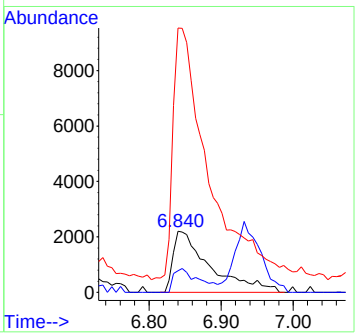


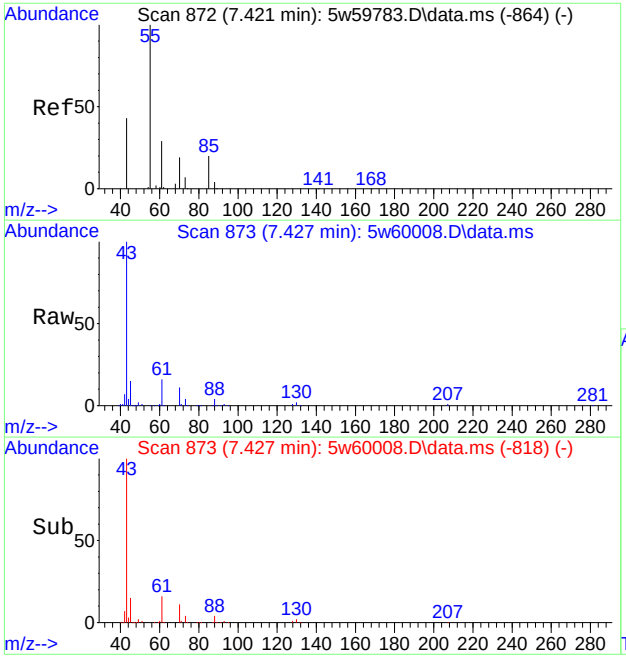


#41
METHYL ETHYL KETONE
Concen: 0.42 PPBV
RT: 6.840 min Scan# 777
Delta R.T. 0.043 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 72 Resp: 7867

Ion	Ratio	Lower	Upper
72	100		
57	35.4	4.8	64.8
43	431.7	415.9	475.9

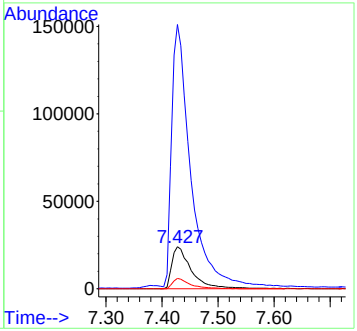


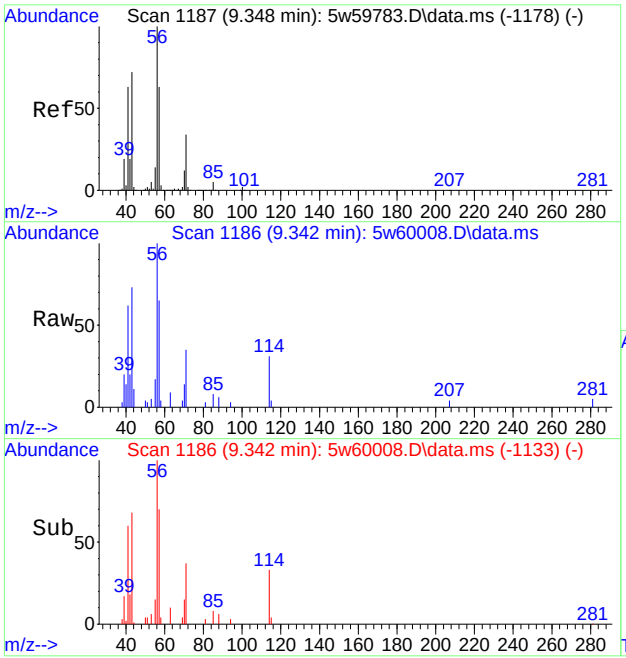


#44
ETHYL ACETATE
Concen: 4.07 PPBV
RT: 7.427 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 61 Resp: 58928

Ion	Ratio	Lower	Upper
61	100		
43	606.5	560.5	620.5
88	22.1	4.5	64.5

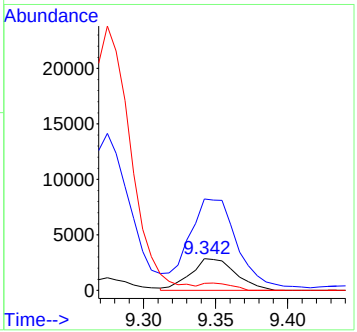


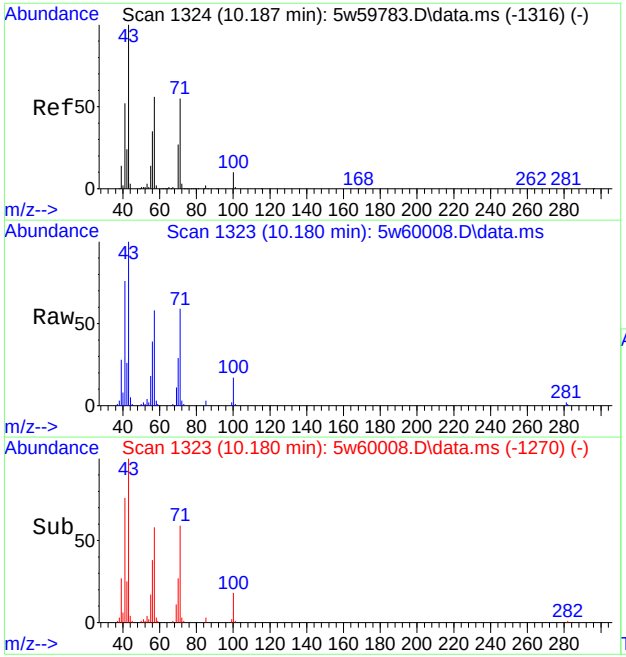


#54
2,3-DIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.342 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 71 Resp: 6241

Ion	Ratio	Lower	Upper
71	100		
56	306.2	264.6	324.6
85	0.0	0.0	45.3

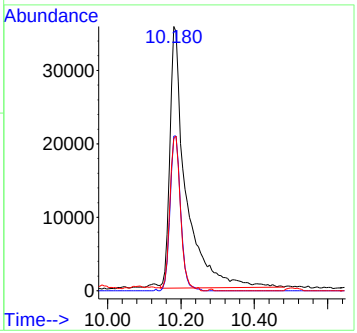


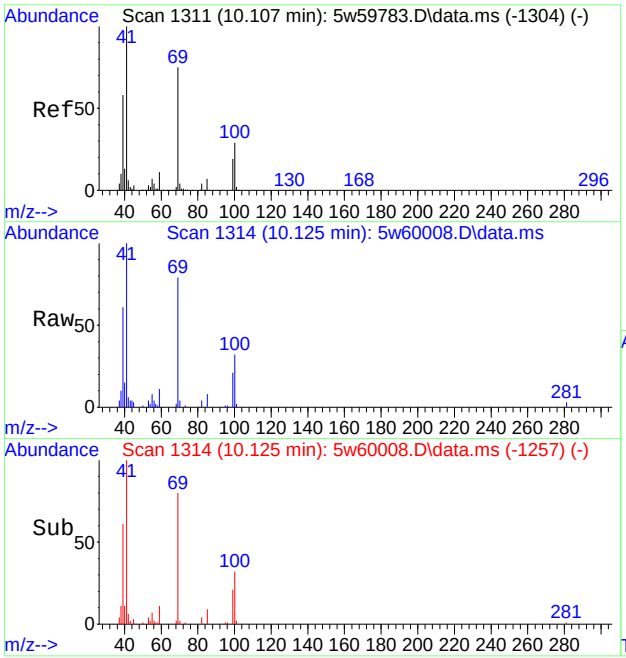


#62
HEPTANE
Concen: 1.28 PPBV
RT: 10.180 min Scan# 1323
Delta R.T. -0.007 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 43 Resp: 107980

Ion	Ratio	Lower	Upper
43	100		
71	39.3	24.5	84.5
57	39.6	26.2	86.2

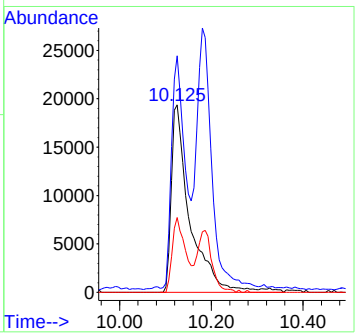


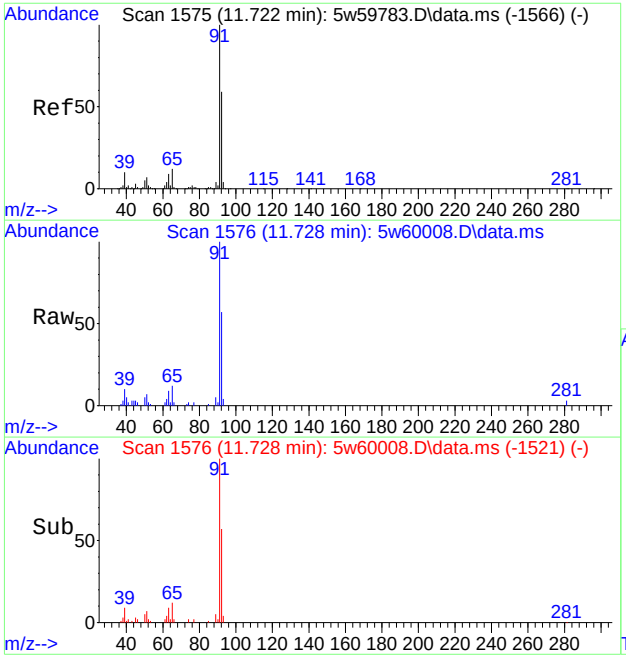


#63
METHYL METHACRYLATE
Concen: 1.15 PPBV
RT: 10.125 min Scan# 1314
Delta R.T. 0.018 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 69 Resp: 55112

Ion	Ratio	Lower	Upper
69	100		
41	90.0	95.3	155.3#
100	29.5	6.3	66.3

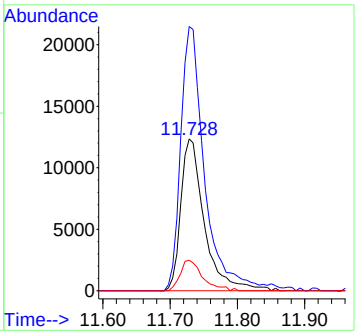


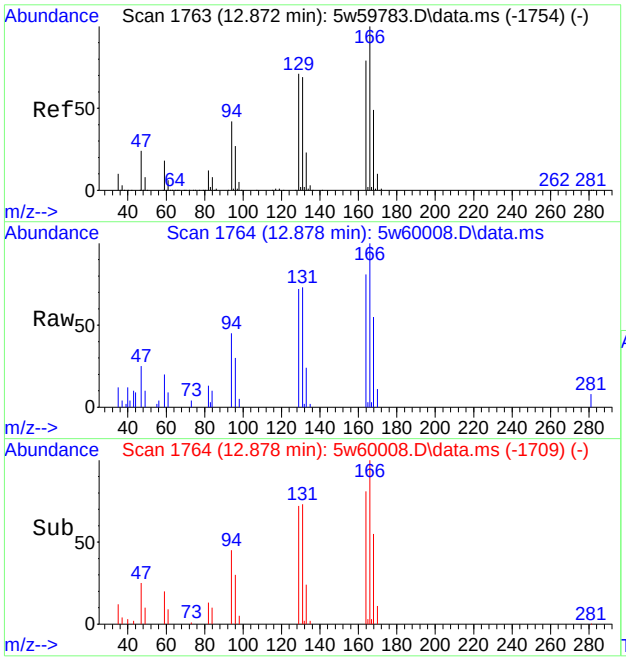


#66
TOLUENE
Concen: 0.28 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion: 92 Resp: 30163

Ion	Ratio	Lower	Upper
92	100		
91	177.8	140.1	200.1
65	19.2	0.0	53.1

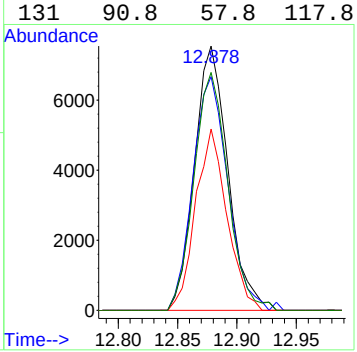


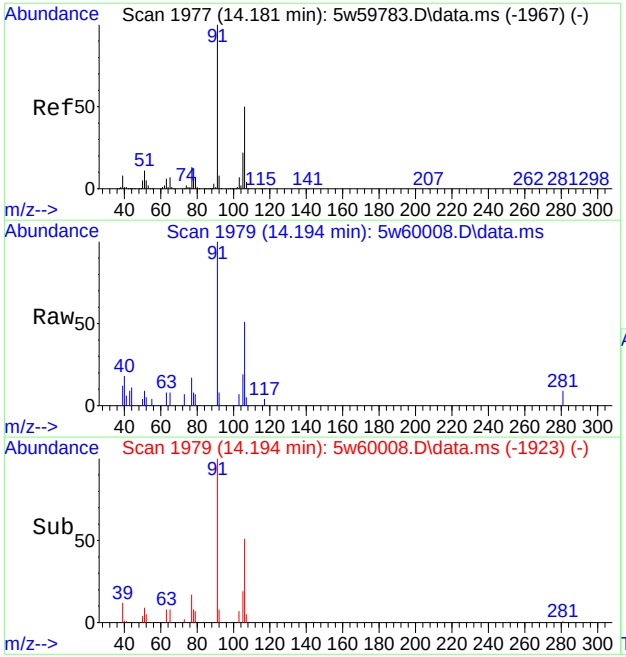


#73
TETRACHLOROETHYLENE
Concen: 0.20 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:164 Resp: 14795

Ion	Ratio	Lower	Upper
164	100		
129	92.6	59.7	119.7
168	64.1	32.2	92.2
131	90.8	57.8	117.8

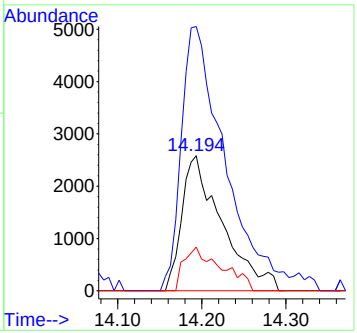




#80
m,p-XYLENE
Concen: 0.10 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w60008.D
Acq: 24 Nov 2025 4:33 pm

Tgt Ion:106 Resp: 8586

Ion	Ratio	Lower	Upper
106	100		
91	195.5	171.0	231.0
77	32.4	0.0	56.7



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18777.D
Acq On : 24 Nov 2025 7:27 pm
Operator : williamc
Sample : je23787-3dup Inst : MS7W
Misc : MS99437,v7w655,100,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:30:59 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

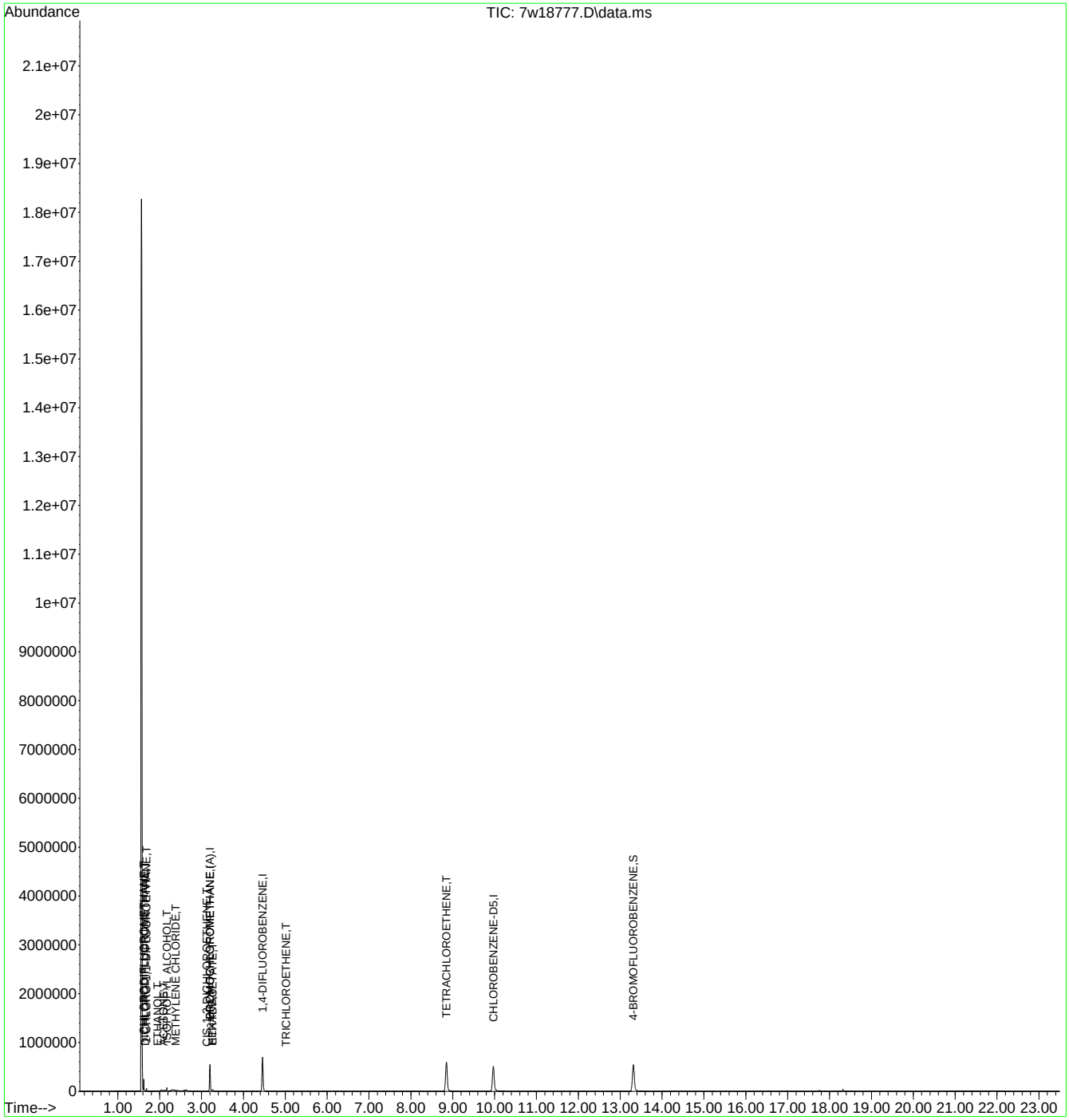
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.200	128	115035	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.457	114	554330	10.00	PPBV	0.01
76) CHLOROBENZENE-D5	9.971	117	518508	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.200	128	115035	10.00	PPBV	# 0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	382402	9.16	PPBV	0.00
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	1.621	67	20822	6.6619	PPBV	91
6) DICHLORODIFLUOROMETHANE	1.647	85	3112	0.1130	PPBV	95
8) 1-CHLORO-1,1-DIFLUOROE...	1.685	65	24986	1.0194	PPBV	96
22) ISOPROPYL ALCOHOL	2.171	45	9664	0.3811	PPBV #	80
23) ACETONE	2.087	58	3853	0.5558	PPBV	65
28) ETHANOL	1.946	45	6715	0.9948	PPBV	98
31) METHYLENE CHLORIDE	2.377	84	1518	0.1358	PPBV	92
38) HEXANE	3.248	57	2494	0.1037	PPBV	84
42) CIS-1,2-DICHLOROETHENE	3.123	96	1421	0.1092	PPBV	90
44) ETHYL ACETATE	3.264	61	4752	1.0311	PPBV #	1
55) TRICHLOROETHENE	5.020	95	3253	0.1882	PPBV	87
72) TETRACHLOROETHENE	8.846	164	223192	13.9019	PPBV	98

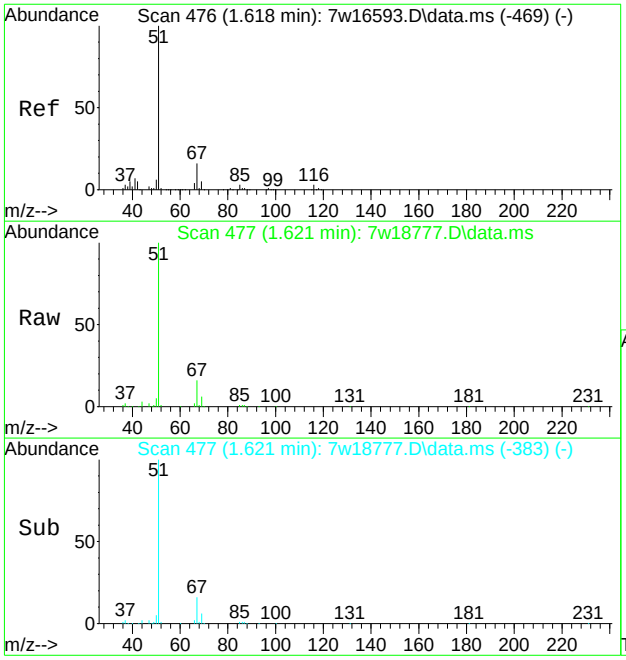
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18777.D
Acq On : 24 Nov 2025 7:27 pm
Operator : williamc
Sample : je23787-3dup Inst : MS7W
Misc : MS99437,v7w655,100,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 02:30:59 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

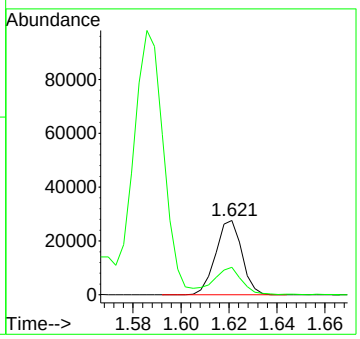


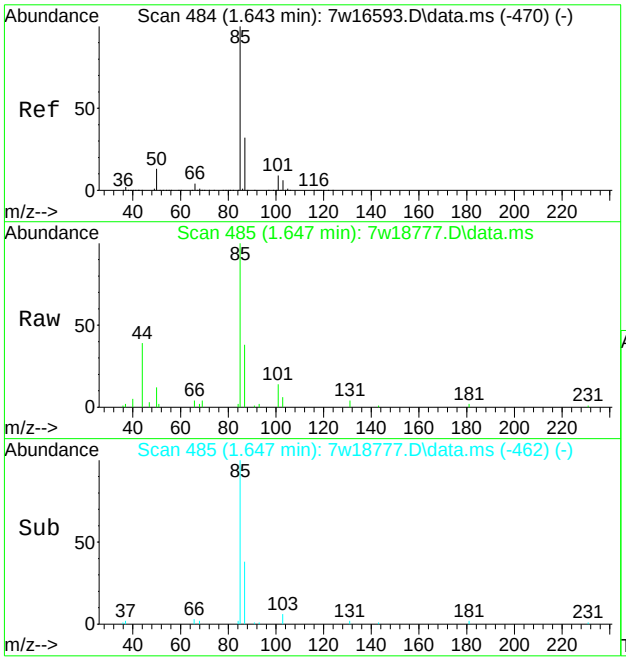


#4
CHLORODIFLUOROMETHANE
Concen: 6.6619 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 67 Resp: 20822

Ion	Ratio	Lower	Upper
67	100		
69	41.3	25.3	47.1

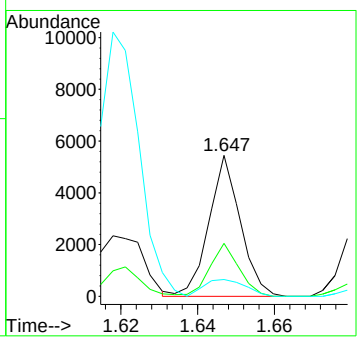


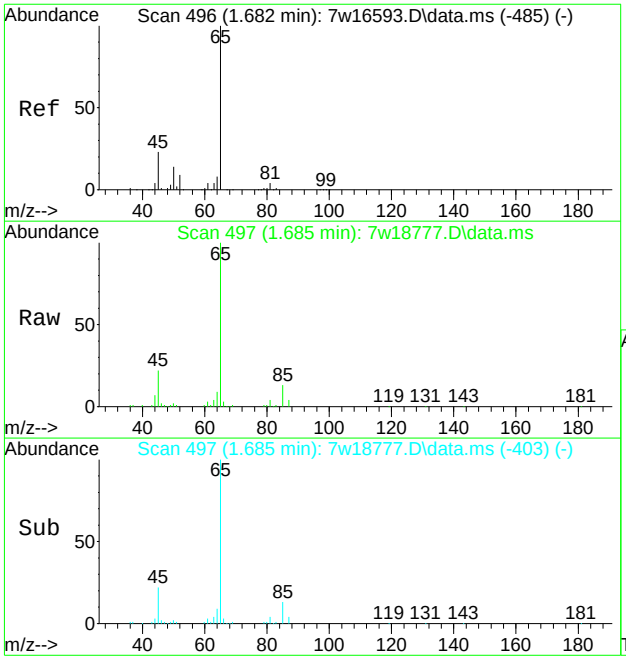


#6
DICHLORODIFLUOROMETHANE
Concen: 0.1130 PPBV
RT: 1.647 min Scan# 485
Delta R.T. 0.004 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 85 Resp: 3112

Ion	Ratio	Lower	Upper
85	100		
87	34.4	23.0	42.6
50	15.8	13.5	25.1

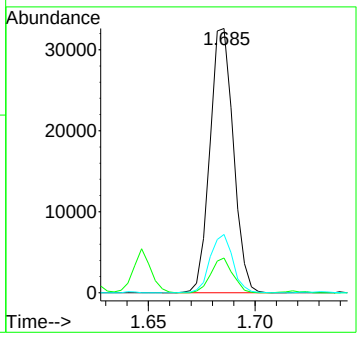


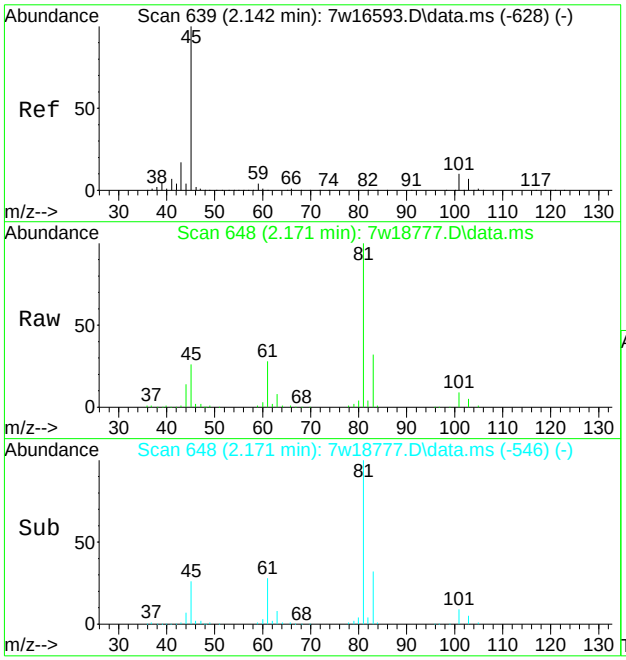


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 1.0194 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.003 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 65 Resp: 24986

Ion	Ratio	Lower	Upper
65	100		
85	12.3	9.4	17.4
45	21.4	16.9	31.3

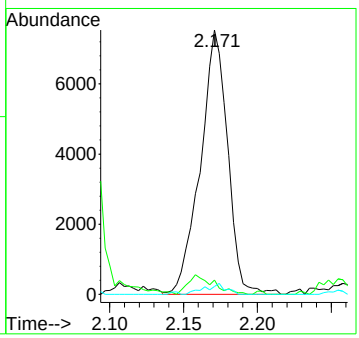


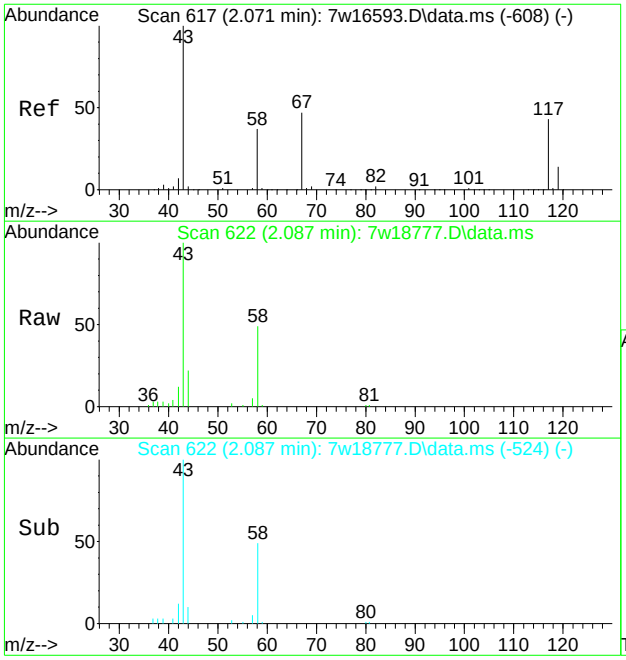


#22
ISOPROPYL ALCOHOL
Concen: 0.3811 PPBV
RT: 2.171 min Scan# 648
Delta R.T. 0.029 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 45 Resp: 9664

Ion	Ratio	Lower	Upper
45	100		
43	7.0	12.5	23.3#
59	3.4	3.1	5.7

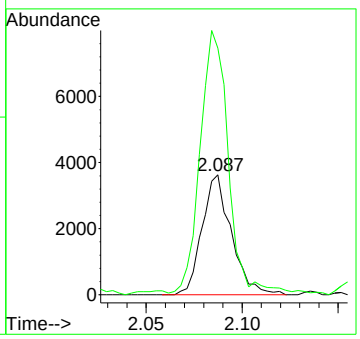


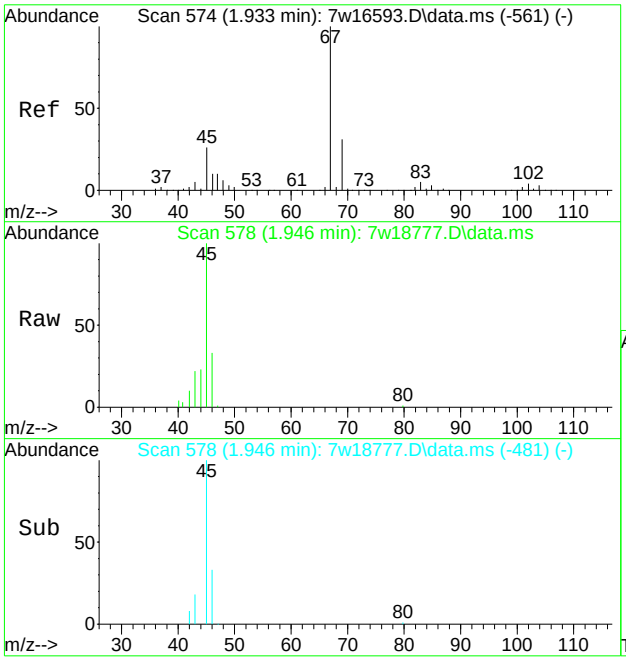


#23
ACETONE
Concen: 0.5558 PPBV
RT: 2.087 min Scan# 622
Delta R.T. 0.016 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 58 Resp: 3853

Ion	Ratio	Lower	Upper
58	100		
43	218.3	198.6	368.8

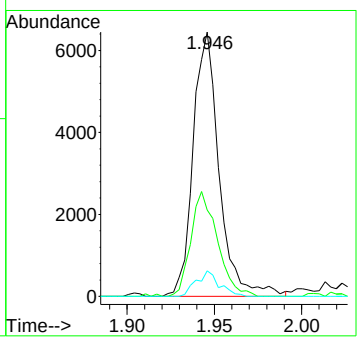


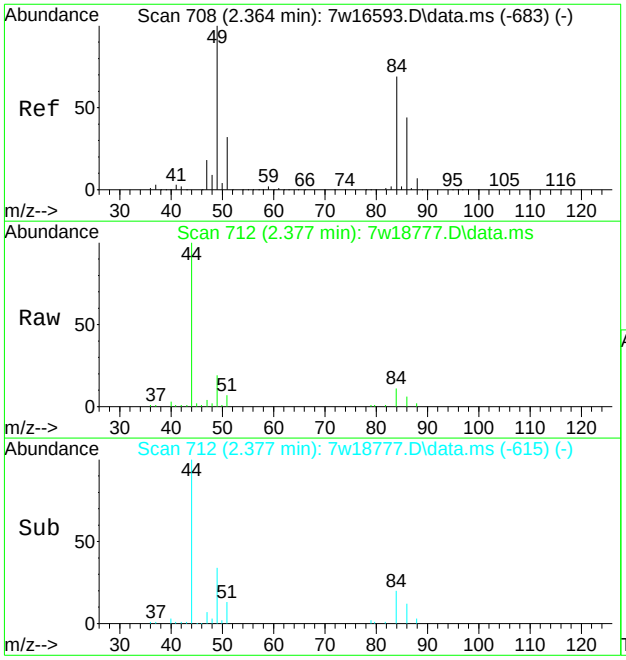


#28
ETHANOL
Concen: 0.9948 PPBV
RT: 1.946 min Scan# 578
Delta R.T. 0.013 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 45 Resp: 6715

Ion	Ratio	Lower	Upper
45	100		
46	40.5	29.0	53.9
42	8.5	5.7	10.5

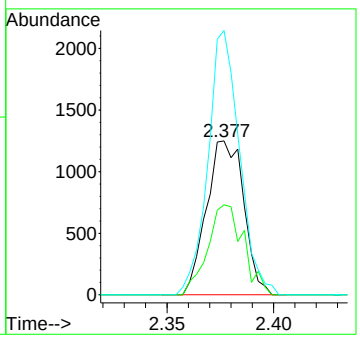


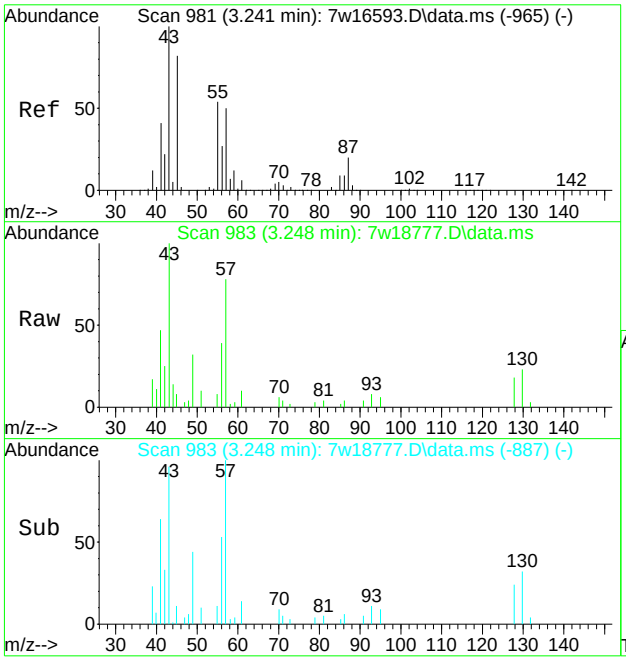


#31
METHYLENE CHLORIDE
Concen: 0.1358 PPBV
RT: 2.377 min Scan# 712
Delta R.T. 0.013 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 84 Resp: 1518

Ion	Ratio	Lower	Upper
84	100		
86	56.1	44.3	82.3
49	145.8	109.5	203.3

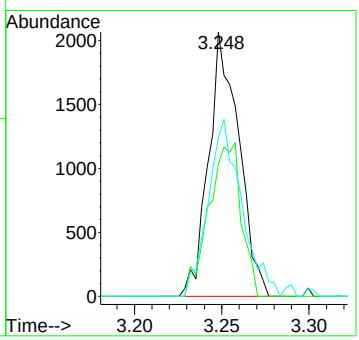


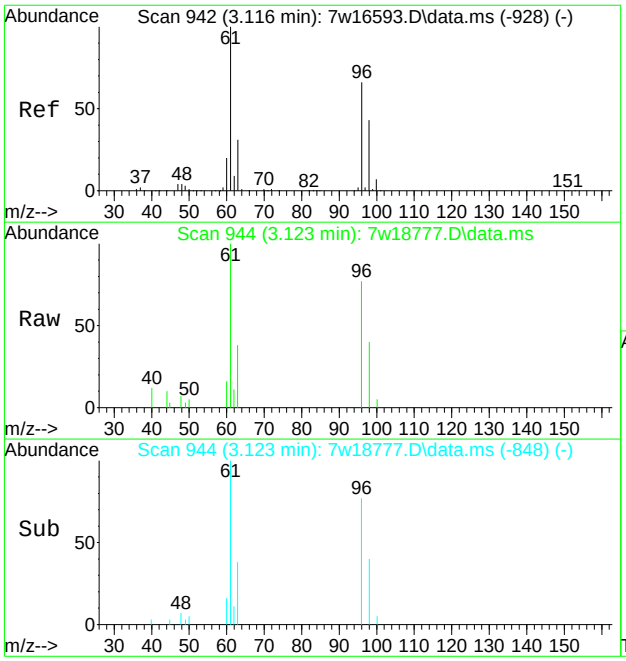


#38
HEXANE
Concen: 0.1037 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.010 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 57 Resp: 2494

Ion	Ratio	Lower	Upper
57	100		
56	62.1	38.0	70.6
41	76.0	65.9	122.5

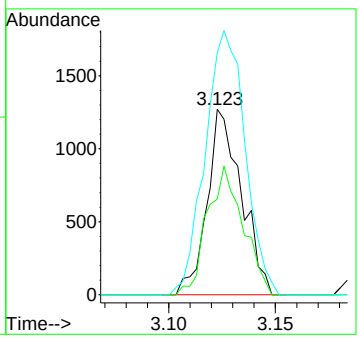


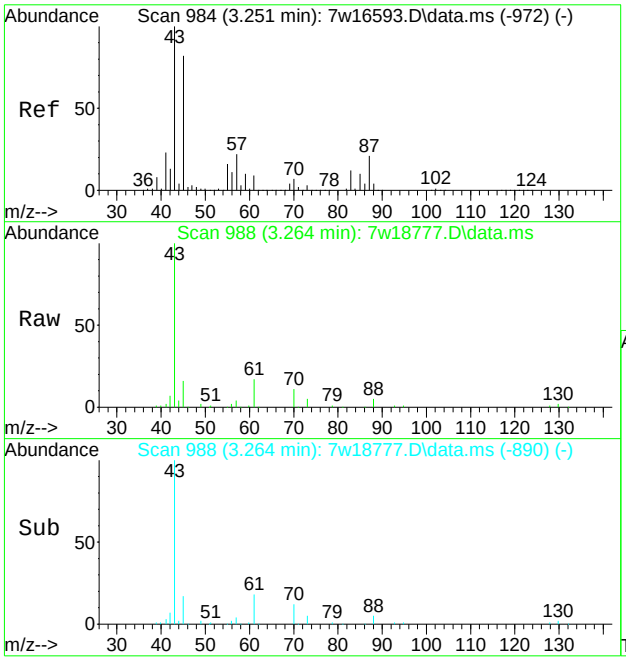


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.1092 PPBV
RT: 3.123 min Scan# 944
Delta R.T. 0.010 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 96 Resp: 1421

Ion	Ratio	Lower	Upper
96	100		
98	72.6	44.7	83.1
61	166.4	107.3	199.3

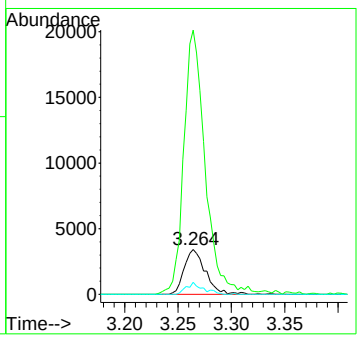


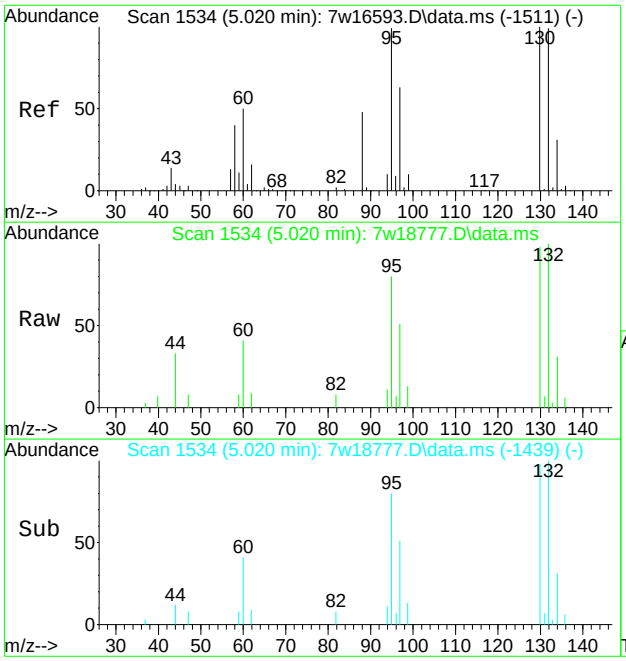


#44
ETHYL ACETATE
Concen: 1.0311 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.016 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 61 Resp: 4752

Ion	Ratio	Lower	Upper
61	100		
43	599.1	955.4	1774.4#
88	20.7	27.6	51.2#

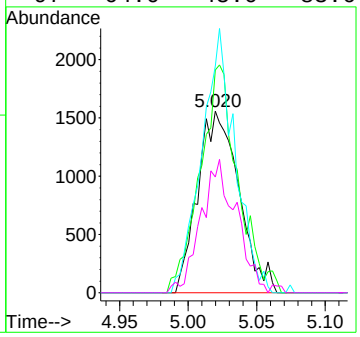


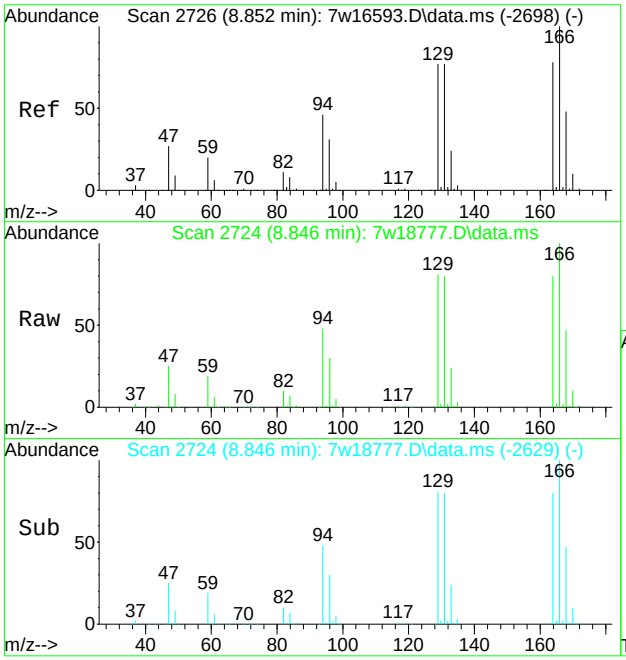


#55
TRICHLOROETHENE
Concen: 0.1882 PPBV
RT: 5.020 min Scan# 1534
Delta R.T. 0.007 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion: 95 Resp: 3253

Ion	Ratio	Lower	Upper
95	100		
130	114.7	69.4	129.0
132	117.8	69.4	128.8
97	64.0	45.0	83.6

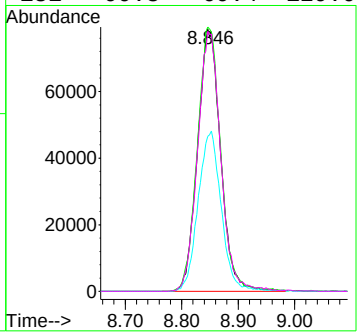




#72
TETRACHLOROETHENE
Concen: 13.9019 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.004 min
Lab File: 7w18777.D
Acq: 24 Nov 2025 7:27 pm

Tgt Ion:164 Resp: 223192

Ion	Ratio	Lower	Upper
164	100		
129	102.7	69.6	129.2
168	61.1	42.5	78.9
131	99.8	69.4	129.0



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 14:08

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025
Data File : 7w18804.D
Acq On : 25 Nov 2025 3:24 pm
Operator : williamc
Sample : je24006-1dup Inst : MS7W
Misc : MS99535,v7w656,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 01:32:35 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

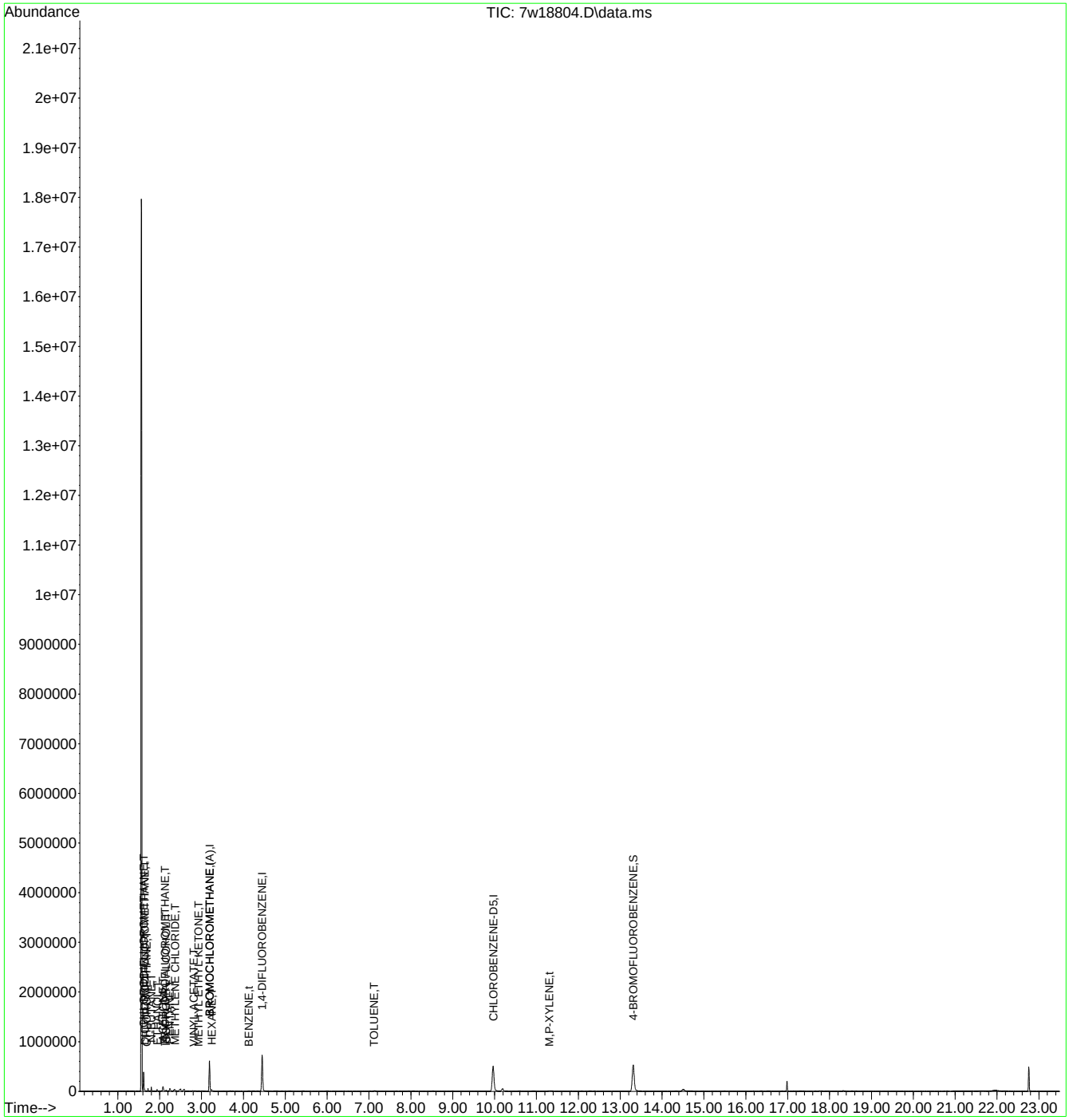
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	117089	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	568232	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.965	117	510968	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	117089	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	373528	9.08	PPBV	0.00
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	1.618	67	31668	9.9542	PPBV	94
6) DICHLORODIFLUOROMETHANE	1.644	85	10627	0.3790	PPBV #	94
10) CHLOROMETHANE	1.689	52	1538	0.3824	PPBV	81
13) N-BUTANE	1.801	43	33584	1.7646	PPBV #	92
21) TRICHLOROFLUOROMETHANE	2.129	101	5696	0.1870	PPBV	98
22) ISOPROPYL ALCOHOL	2.155	45	4200	0.1627	PPBV	92
23) ACETONE	2.078	58	18531	2.6262	PPBV	99
24) PENTANE	2.242	42	6195	0.4432	PPBV	88
28) ETHANOL	1.939	45	21786	3.1708	PPBV	100
31) METHYLENE CHLORIDE	2.367	84	4774	0.4195	PPBV	88
38) HEXANE	3.242	57	11391	0.4654	PPBV	81
39) VINYL ACETATE	2.814	86	402	0.1151	PPBV #	1
41) METHYL ETHYL KETONE	2.923	72	1249	0.1870	PPBV #	60
51) BENZENE	4.126	78	4223	0.1077	PPBV	85
66) TOLUENE	7.122	91	9335	0.2069	PPBV	98
80) M,P-XYLENE	11.299	91	13058m	0.2818	PPBV	

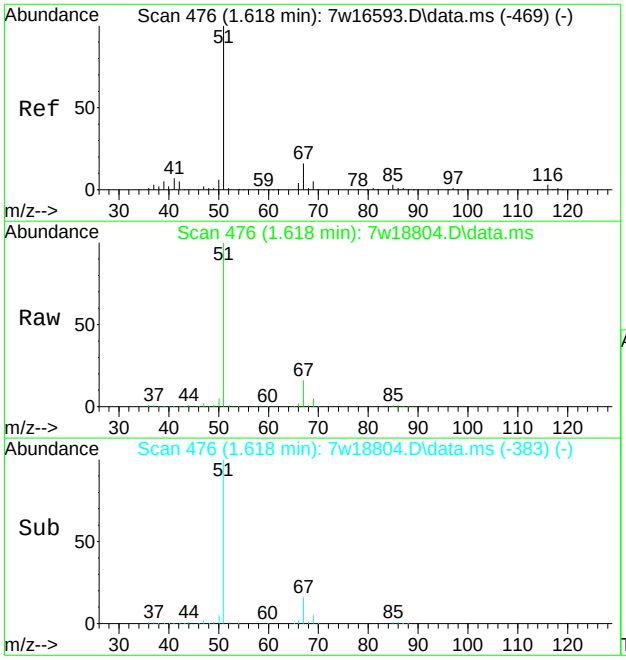
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18804.D
Acq On : 25 Nov 2025 3:24 pm
Operator : williamc
Sample : je24006-1dup Inst : MS7W
Misc : MS99535,v7w656,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 01:32:35 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

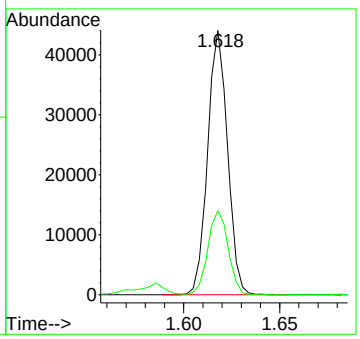


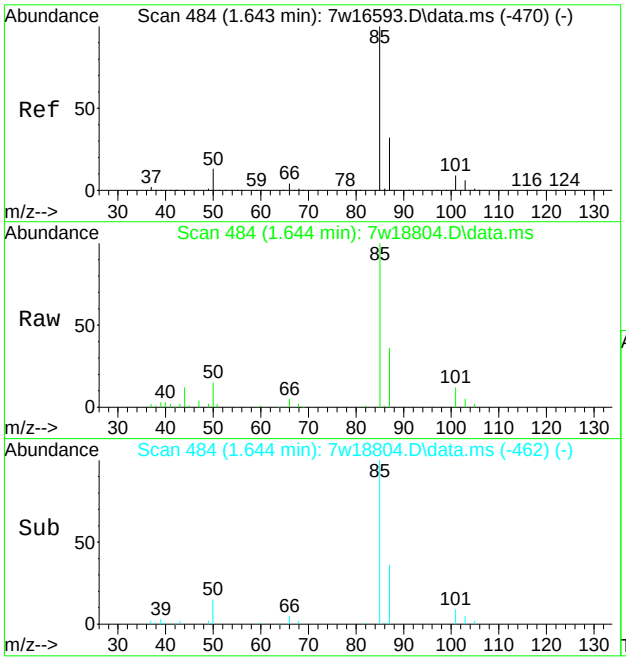


#4
CHLORODIFLUOROMETHANE
Concen: 9.9542 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 67 Resp: 31668

Ion	Ratio	Lower	Upper
67	100		
69	32.7	25.3	47.1

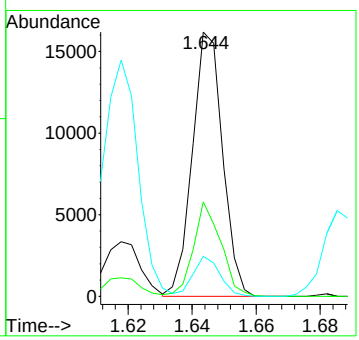


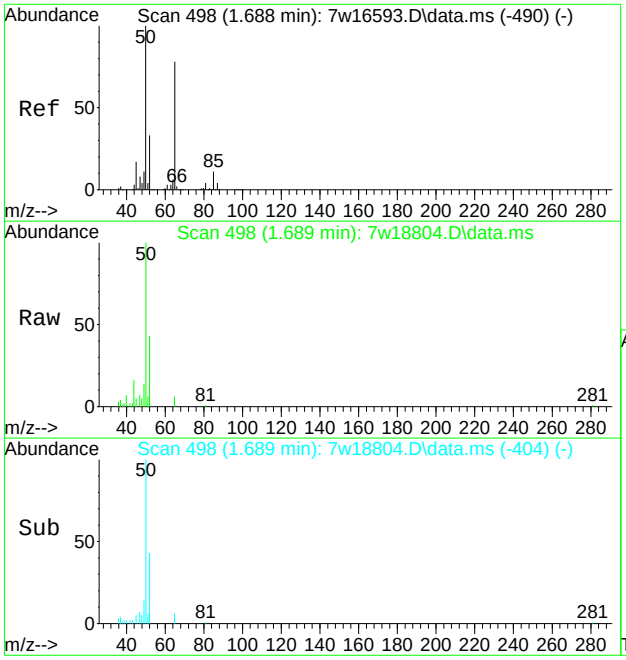


#6
DICHLORODIFLUOROMETHANE
Concen: 0.3790 PPBV
RT: 1.644 min Scan# 484
Delta R.T. 0.001 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 85 Resp: 10627

Ion	Ratio	Lower	Upper
85	100		
87	32.3	23.0	42.6
50	12.9	13.5	25.1#

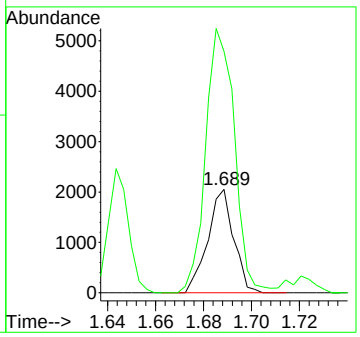


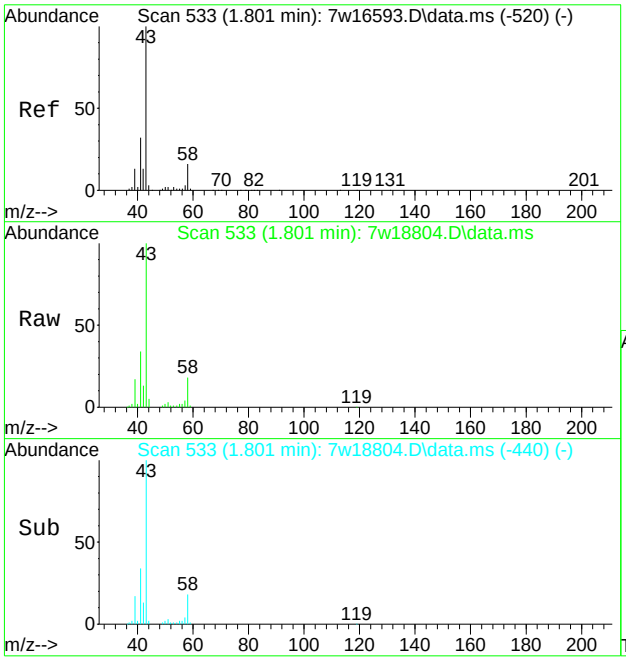


#10
CHLOROMETHANE
Concen: 0.3824 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.004 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 52 Resp: 1538

Ion	Ratio	Lower	Upper
52	100		
50	283.1	225.6	419.0

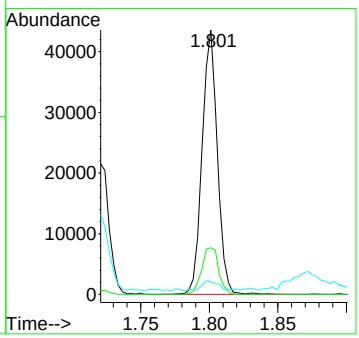


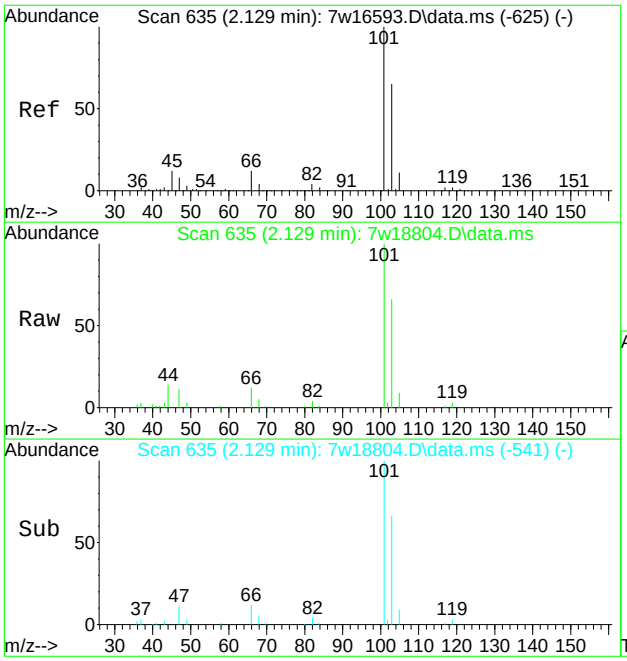


#13
N-BUTANE
Concen: 1.7646 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 43 Resp: 33584

Ion	Ratio	Lower	Upper
43	100		
58	19.6	11.0	20.4
44	5.3	2.6	4.8#

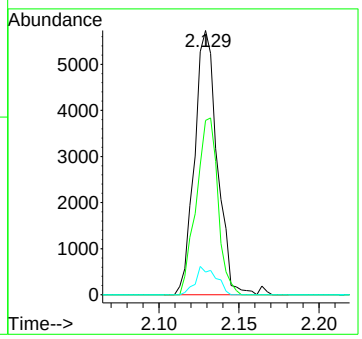


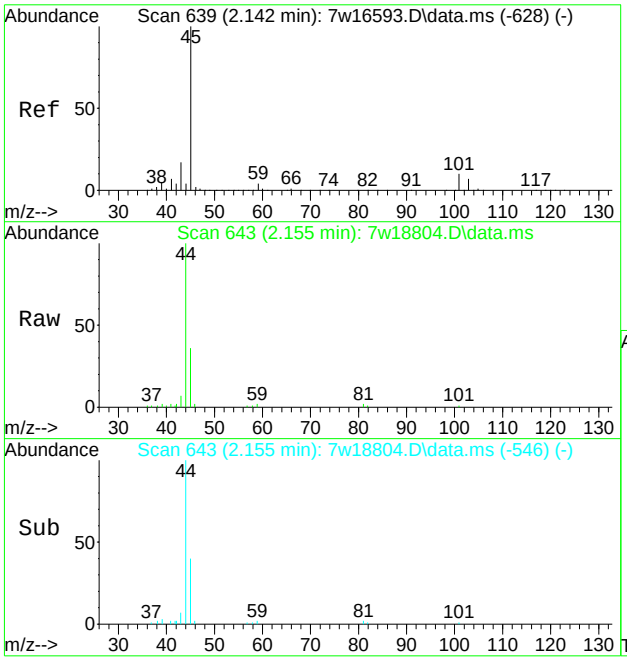


#21
TRICHLOROFLUOROMETHANE
Concen: 0.1870 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion:101 Resp: 5696

Ion	Ratio	Lower	Upper
101	100		
103	63.3	45.2	84.0
105	9.6	7.3	13.5

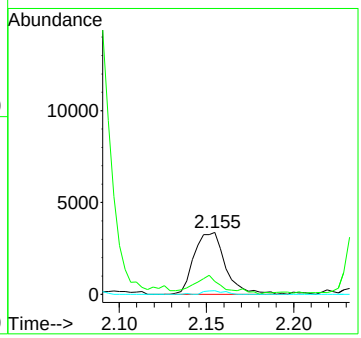


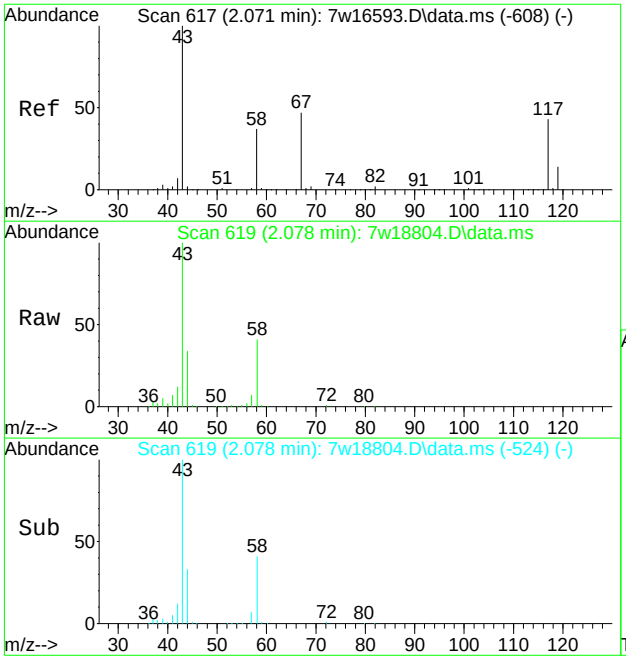


#22
ISOPROPYL ALCOHOL
Concen: 0.1627 PPBV
RT: 2.155 min Scan# 643
Delta R.T. 0.013 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 45 Resp: 4200

Ion	Ratio	Lower	Upper
45	100		
43	22.2	12.5	23.3
59	4.2	3.1	5.7

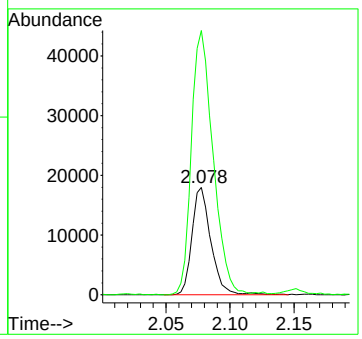


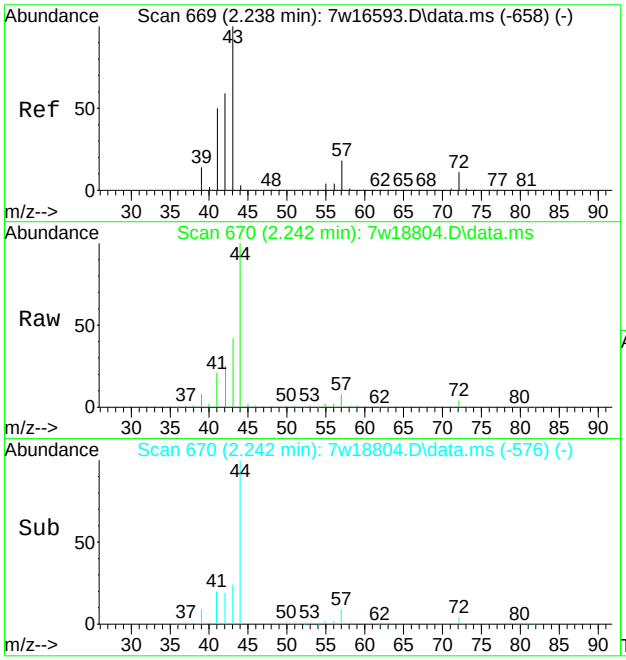


#23
ACETONE
Concen: 2.6262 PPBV
RT: 2.078 min Scan# 619
Delta R.T. 0.007 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 58 Resp: 18531

Ion	Ratio	Lower	Upper
58	100		
43	282.7	198.6	368.8

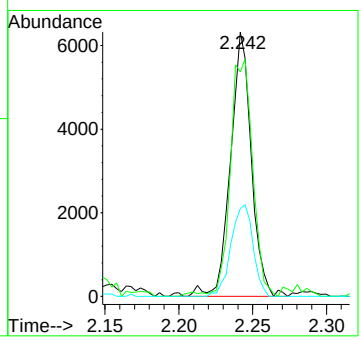


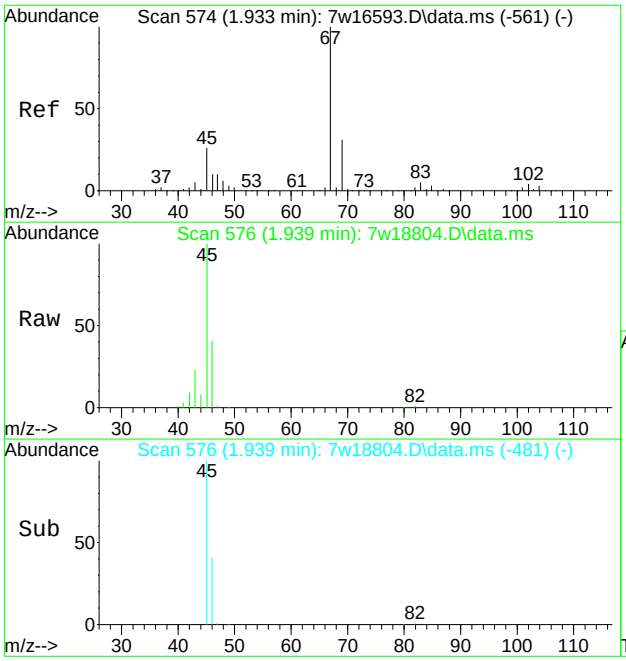


#24
PENTANE
Concen: 0.4432 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 42 Resp: 6195

Ion	Ratio	Lower	Upper
42	100		
41	96.6	59.8	111.0
57	36.4	21.1	39.1

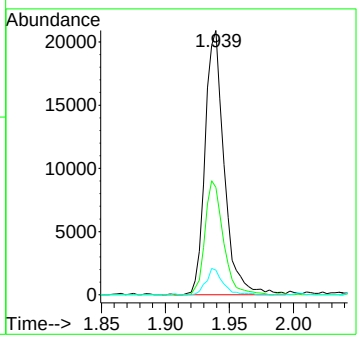


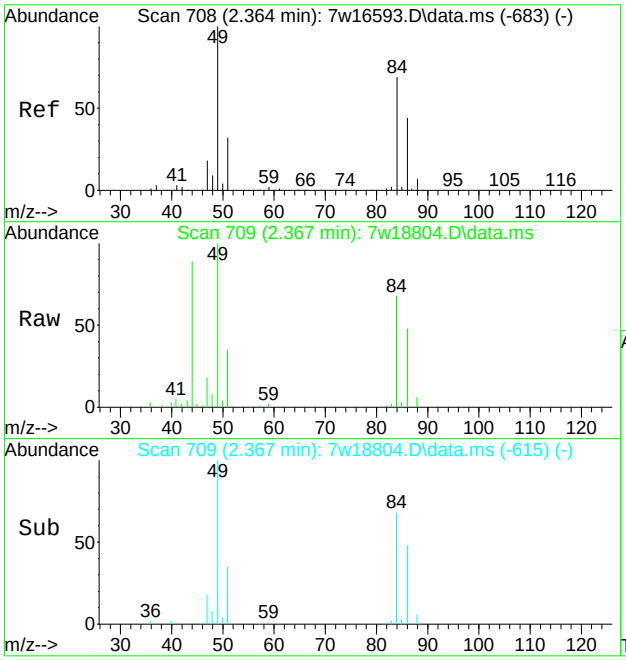


#28
ETHANOL
Concen: 3.1708 PPBV
RT: 1.939 min Scan# 576
Delta R.T. 0.006 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 45 Resp: 21786

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	8.7	5.7	10.5

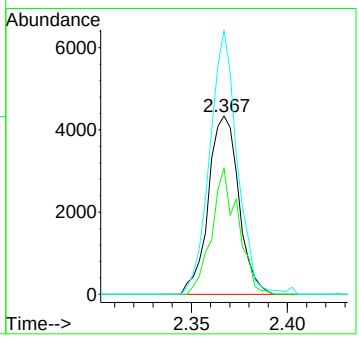


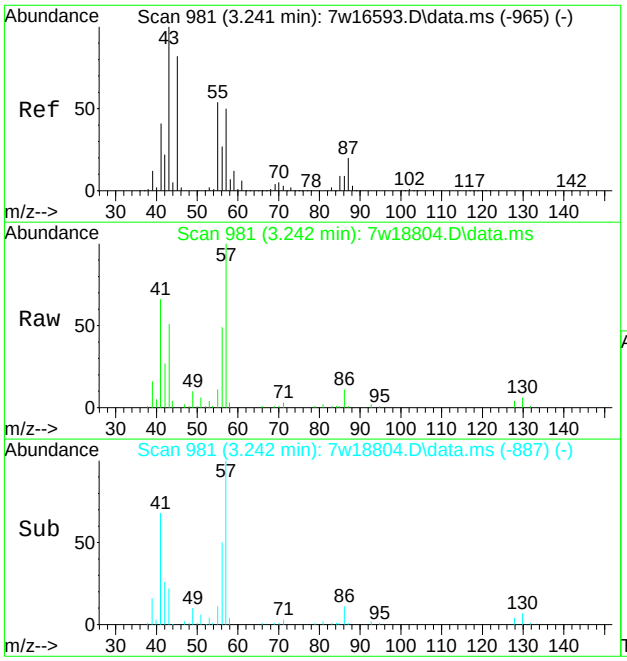


#31
METHYLENE CHLORIDE
Concen: 0.4195 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 84 Resp: 4774

Ion	Ratio	Lower	Upper
84	100		
86	61.8	44.3	82.3
49	135.0	109.5	203.3

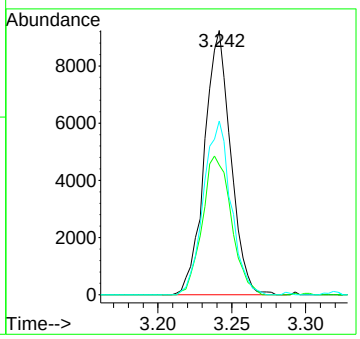


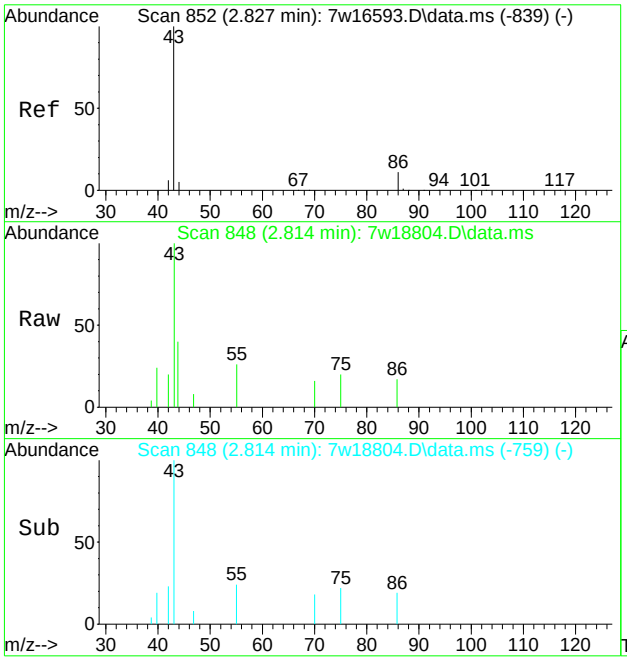


#38
HEXANE
Concen: 0.4654 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.004 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 57 Resp: 11391

Ion	Ratio	Lower	Upper
57	100		
56	57.9	38.0	70.6
41	68.8	65.9	122.5

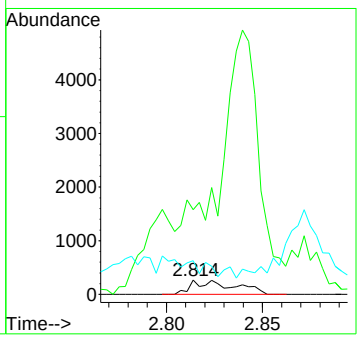


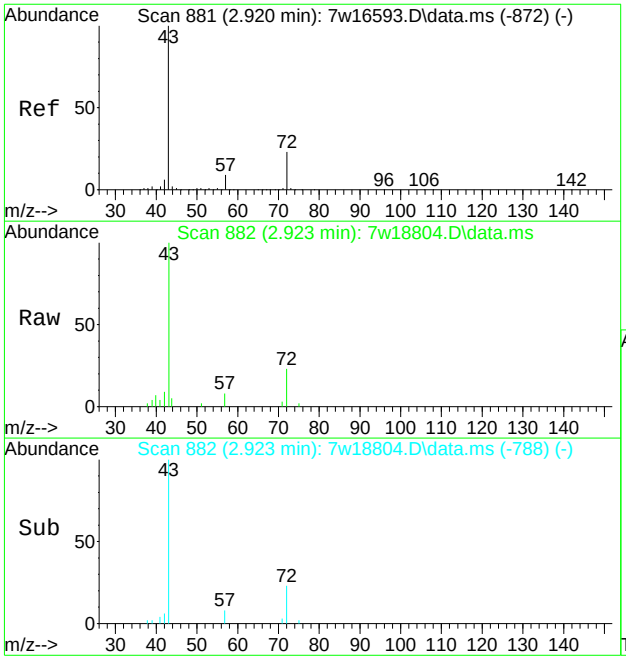


#39
VINYL ACETATE
Concen: 0.1151 PPBV
RT: 2.814 min Scan# 848
Delta R.T. -0.013 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 86 Resp: 402

Ion	Ratio	Lower	Upper
86	100		
43	0.0	758.7	1408.9#
44	262.7	39.5	73.3#

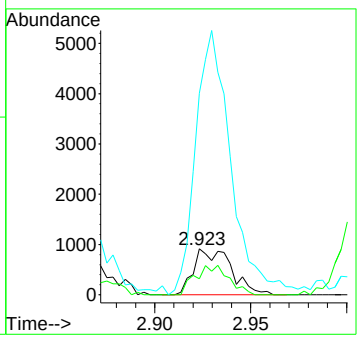


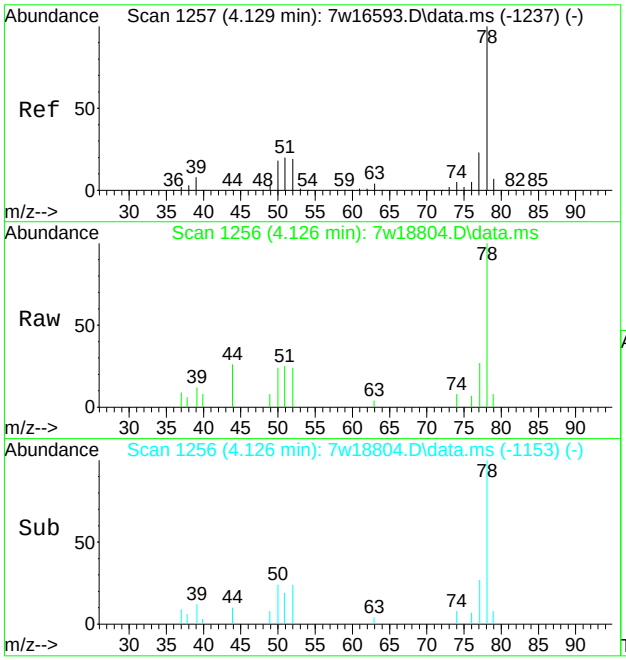


#41
METHYL ETHYL KETONE
Concen: 0.1870 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 72 Resp: 1249

Ion	Ratio	Lower	Upper
72	100		
57	57.0	26.9	49.9#
43	546.7	309.4	574.6

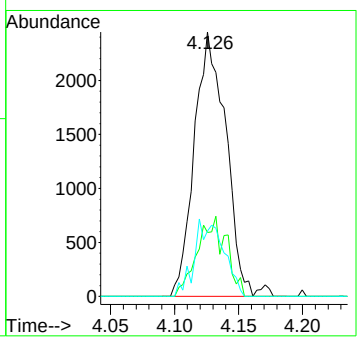


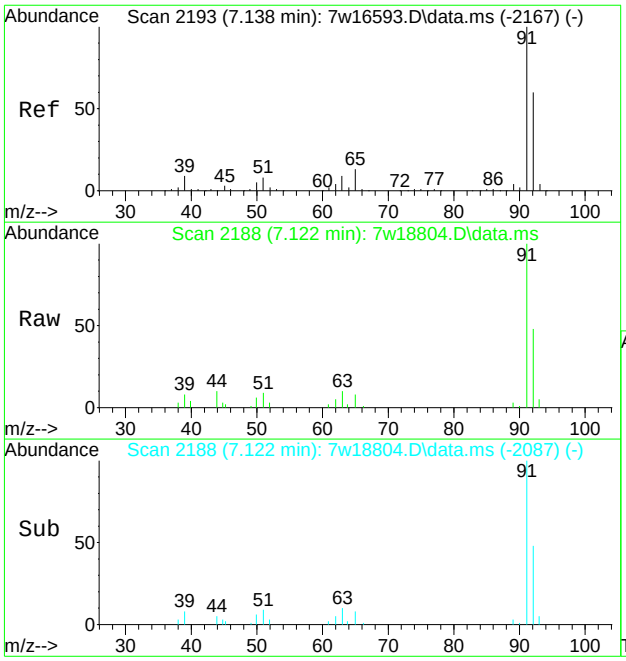


#51
BENZENE
Concen: 0.1077 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 78 Resp: 4223

Ion	Ratio	Lower	Upper
78	100		
52	27.7	0.0	49.9
51	26.6	0.0	50.6

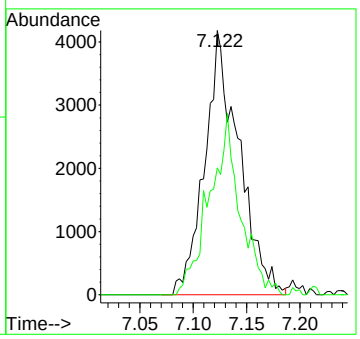


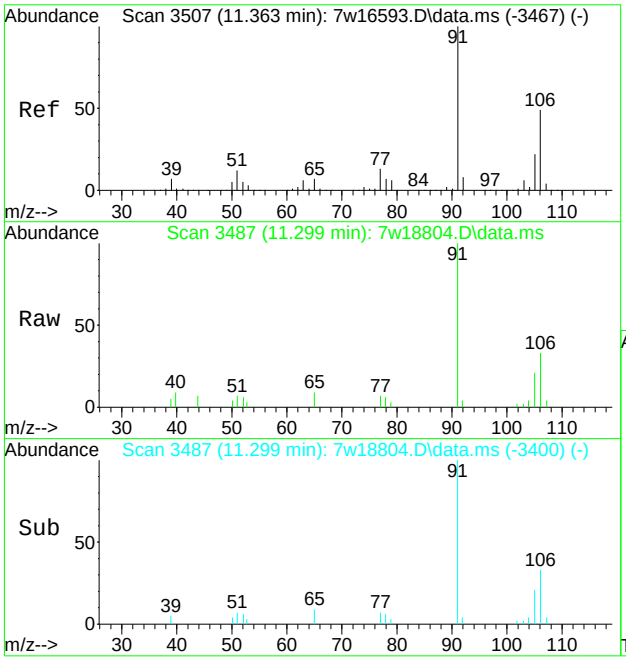


#66
TOLUENE
Concen: 0.2069 PPBV
RT: 7.122 min Scan# 2188
Delta R.T. -0.007 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 91 Resp: 9335

Ion	Ratio	Lower	Upper
91	100		
92	61.5	30.3	90.3

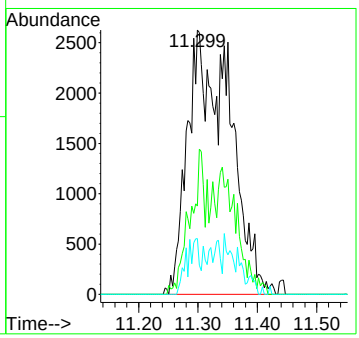




#80
M,P-XYLENE
Concen: 0.2818 PPBV m
RT: 11.299 min Scan# 3487
Delta R.T. -0.051 min
Lab File: 7w18804.D
Acq: 25 Nov 2025 3:24 pm

Tgt Ion: 91 Resp: 13058

Ion	Ratio	Lower	Upper
91	100		
106	20.7	0.0	56.1
105	7.6	0.0	42.1



Manual Integration Approval Summary

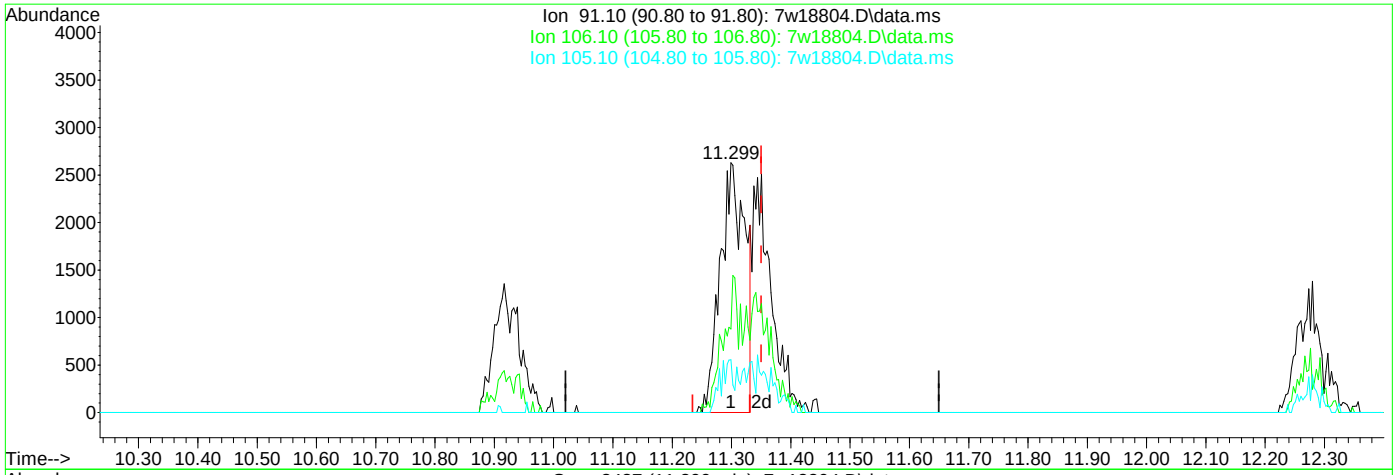
Sample Number:	JE24006-1DUP	**Method:**	TO-15
Lab FileID:	7W18804.D	**Analyst approved:**	11/26/25 12:50 Claire Basilio
Injection Time:	11/25/25 15:24	**Supervisor approved:**	11/26/25 14:08 Kanya Veerawat

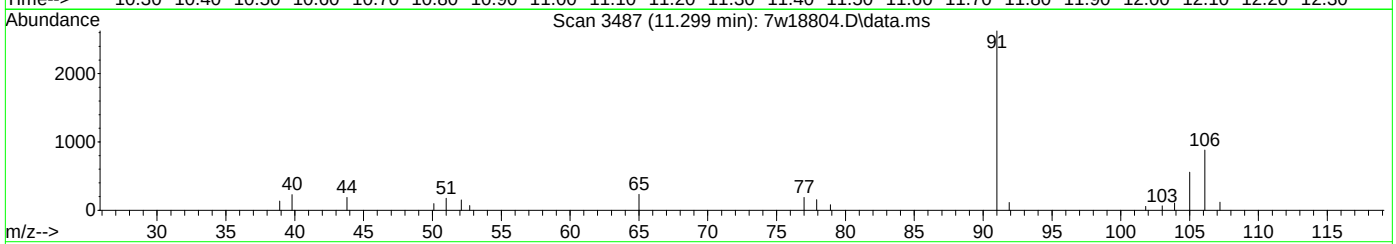
Parameter	CAS	Sig#	R.T. (min.)	Reason
m,p-Xylene			11.30	Split peak

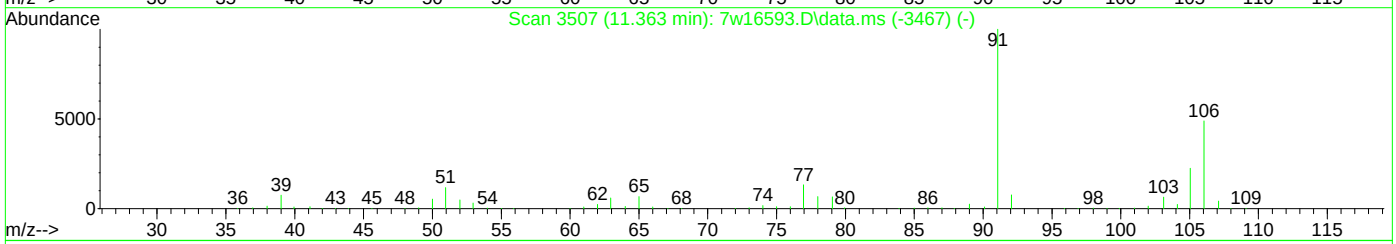
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18804.D
Acq On : 25 Nov 2025 3:24 pm
Operator : williamc
Sample : je24006-1dup Inst : MS7W
Misc : MS99535,v7w656,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 01:31:07 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration







TIC: 7w18804.D\data.ms

(80) M,P-XYLENE (t)

11.299min (-0.051) 0.16PPBV

response 7569

Ion	Exp%	Act%
91.10	100	100
106.10	26.10	35.67
105.10	12.10	13.09
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

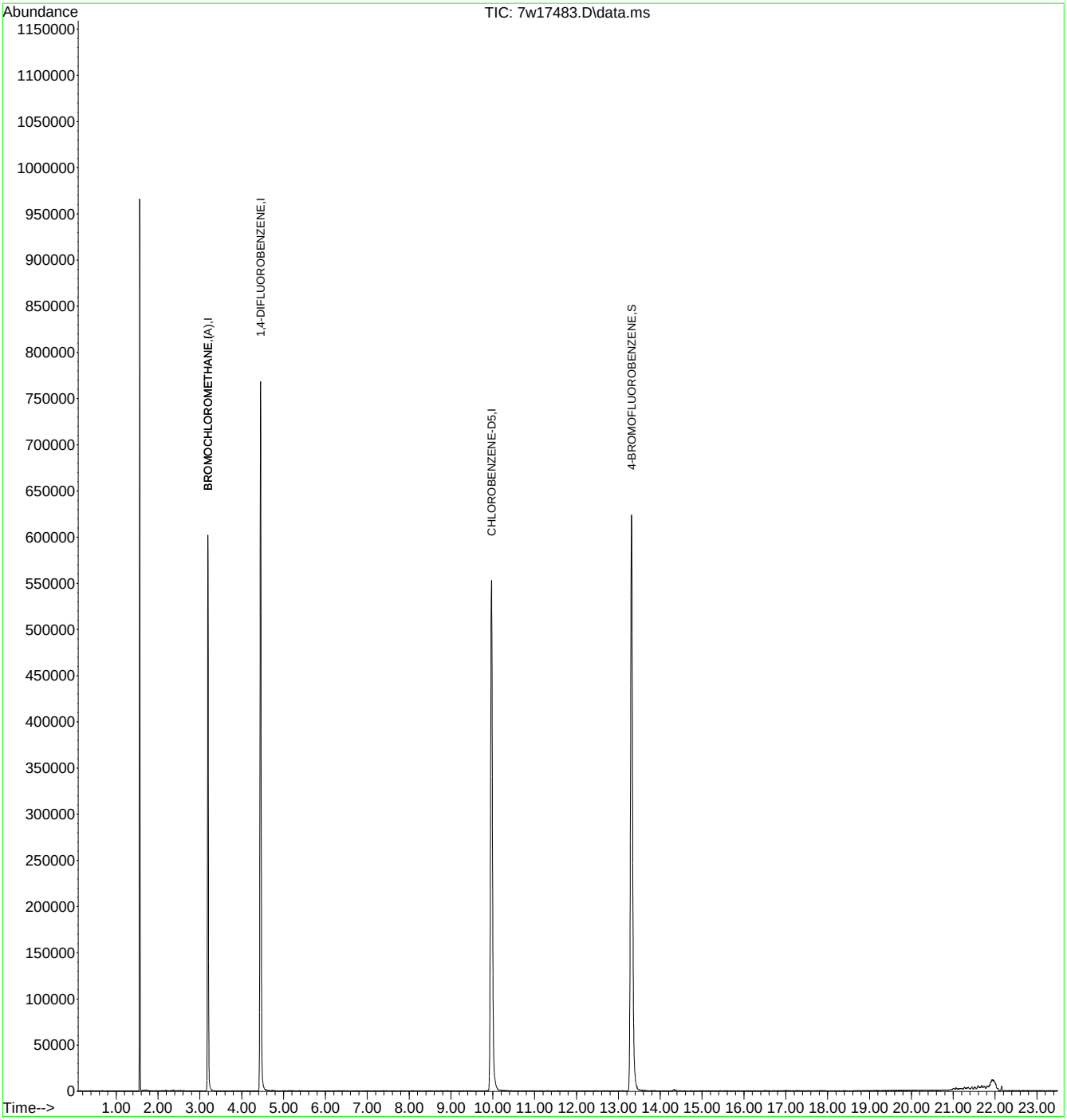
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.193	128	122841	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	609530	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	568575	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	122841	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	430277	9.40	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17483.D
Acq On : 26 Sep 2025 7:55 pm
Operator : thomash
Sample : scc(a053),cp13198 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 18:00:00 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

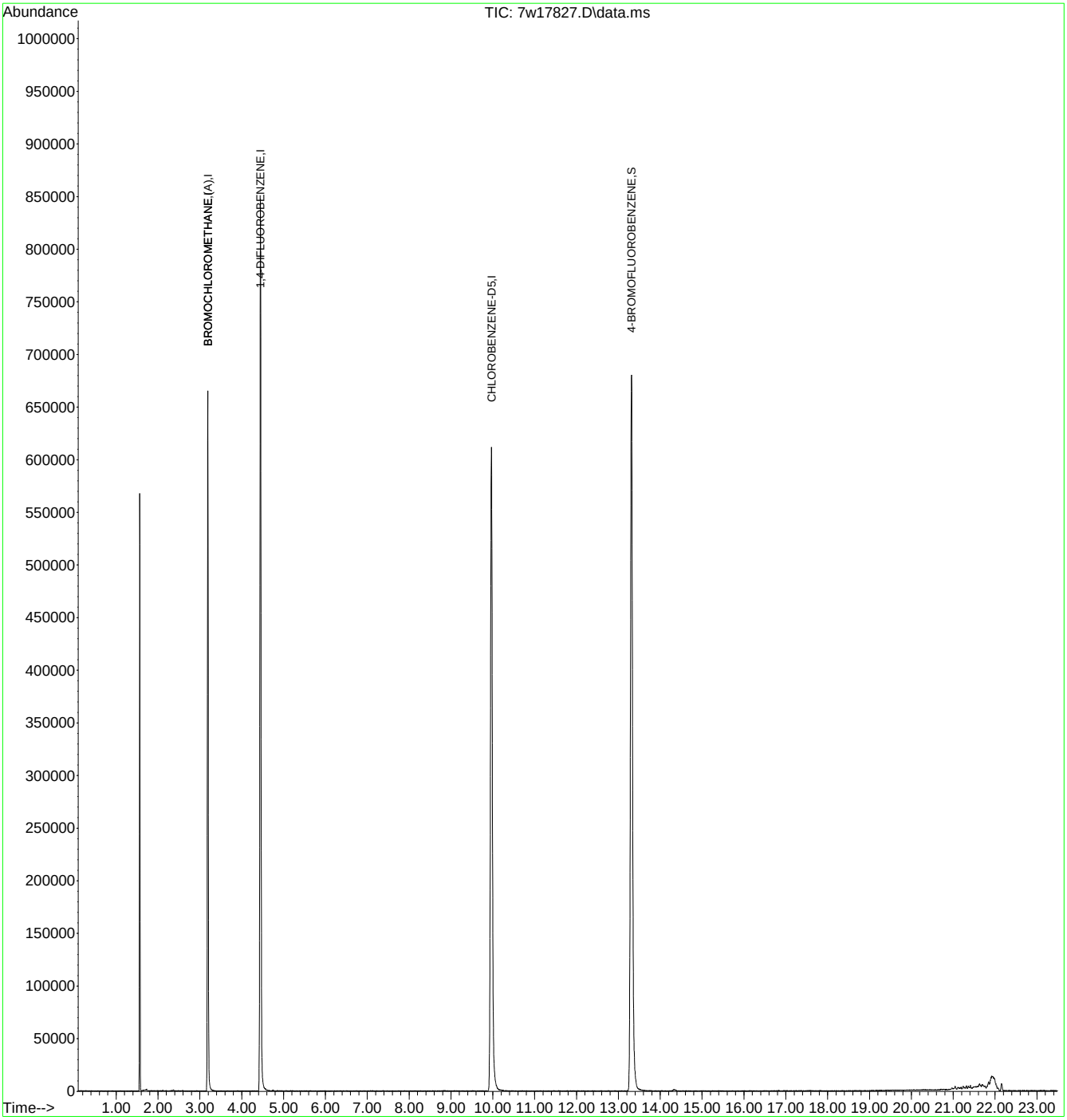
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.190	128	133491	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659279	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	9.968	117	611978	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133491	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.312	95	469303	9.52	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\natalil\2025\10. Oct\10142025\V7W624\
Data File : 7w17827.D
Acq On : 14 Oct 2025 7:39 am
Operator : thomash
Sample : scc(a1088),cp13206 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:08:33 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18509.D
Acq On : 12 Nov 2025 3:20 pm
Operator : thomash
Sample : scc(a793),cp13217 Inst : MS7W
Misc : MS99029,v7w647,100,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:22:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

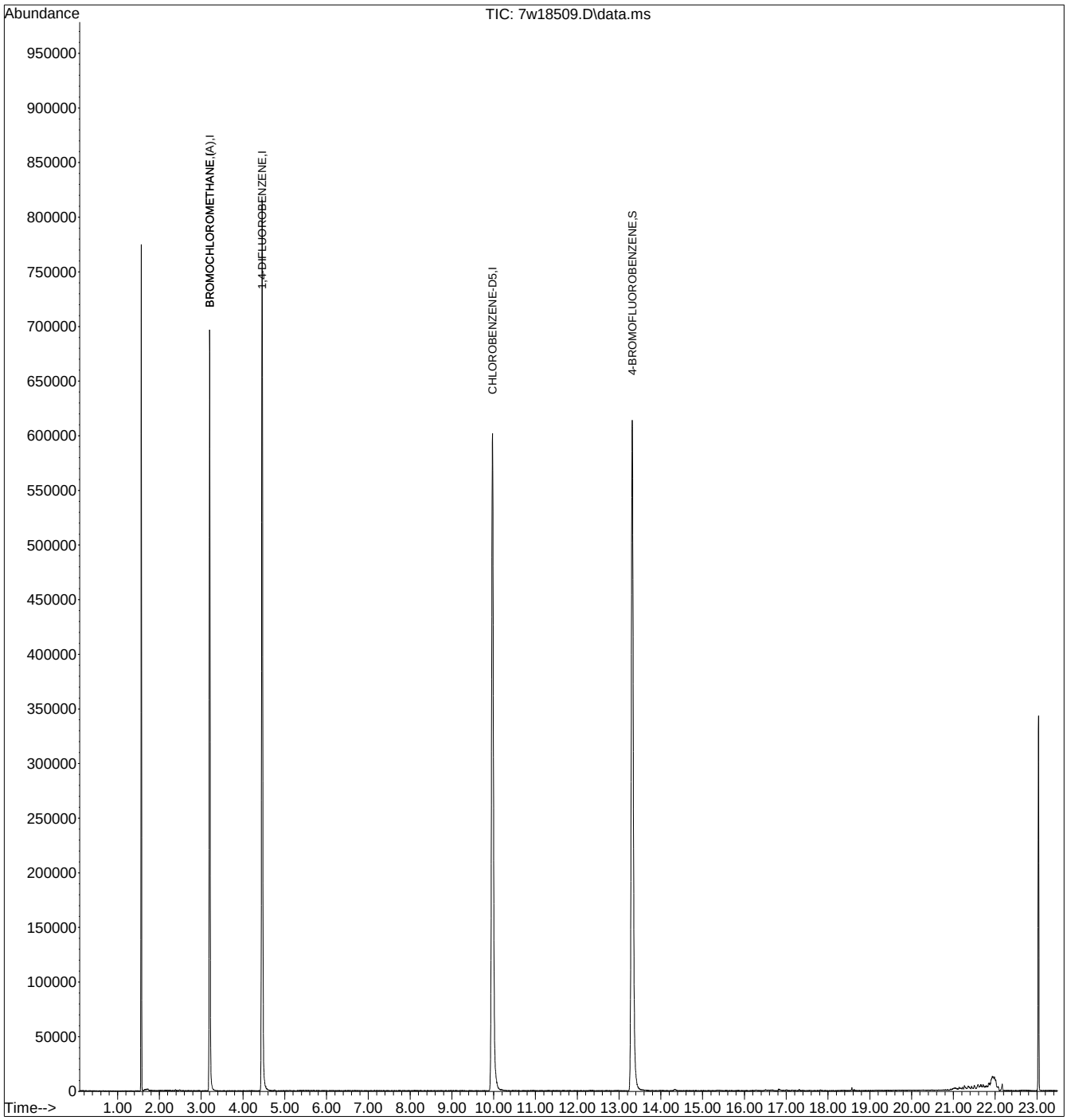
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.206	128	136633	10.00	PPBV	0.02
52) 1,4-DIFLUOROBENZENE	4.457	114	634514	10.00	PPBV	0.01
76) CHLOROBENZENE-D5	9.975	117	610228	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.206	128	137104	10.00	PPBV	0.02
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.315	95	427868	8.71	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18509.D
Acq On : 12 Nov 2025 3:20 pm
Operator : thomash
Sample : scc(a793),cp13217 Inst : MS7W
Misc : MS99029,v7w647,100,,,,1
ALS Vial : 1 Sample Multiplier: 1

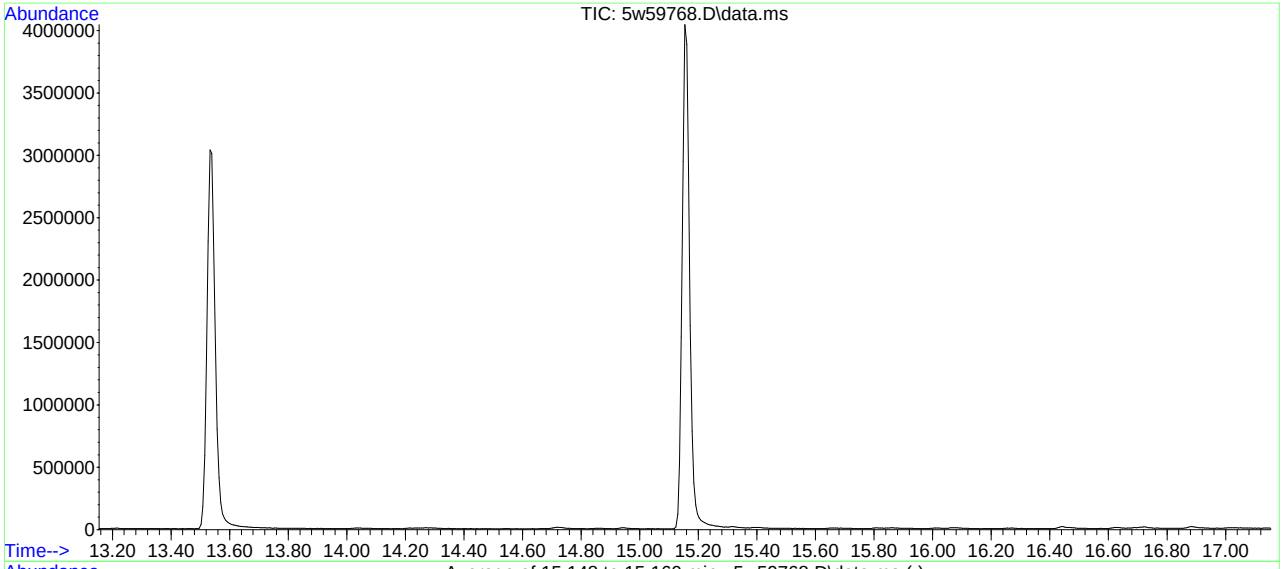
Quant Time: Nov 13 17:22:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



BFB

Data File : C:\msdchem\1\data\5w\5w59768.D Vial: 2
Acq On : 6 Nov 2025 9:59 pm Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS96315,V5W2292,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5wBFB.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	135749	PASS
75	95	30	66	46.4	334528	PASS
95	95	100	100	100.0	720341	PASS
96	95	5	9	6.9	49469	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.0	662677	PASS
175	174	4	9	7.8	51795	PASS
176	174	93	101	99.2	657579	PASS
177	176	5	9	6.9	45267	PASS

5w59768.D M5wBFB.M Fri Nov 07 21:29:07 2025

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	5545	48.00	3946	61.05	32339	74.05	112597
37.10	30280	49.05	27840	62.10	32435	75.05	334528
38.10	26987	50.10	135749	63.10	24125	76.10	29141
39.10	10667	51.05	41606	64.05	2305	77.00	4066
40.00	348	52.05	1737	67.05	1826	78.00	3098
41.05	175	55.05	2016	68.00	72219	78.90	24720
43.00	450	56.05	10826	69.00	70581	80.00	6986
44.00	3502	57.05	20024	70.00	5326	80.90	25387
45.10	6092	58.05	889	71.10	296	81.95	5504
46.05	426	59.10	145	72.05	3398	82.95	490
47.10	8871	60.00	6445	73.00	28839	86.05	874

Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	35085	104.90	1175	118.90	3821	133.90	92
88.00	33645	105.95	3347	121.90	77	134.95	1334
90.95	2907	106.95	762	123.00	102	135.95	160
92.00	19285	109.95	420	123.90	511	136.90	1385
93.00	29085	110.95	751	124.95	264	138.95	431
94.00	80680	111.95	485	125.90	315	139.90	588
95.05	720341	112.90	723	126.95	311	141.00	7227
96.05	49469	114.95	770	127.95	2733	141.90	954
97.05	1483	115.90	2767	128.95	1406	143.00	7195
102.90	330	116.95	4700	129.90	2746	143.95	411
103.95	3663	117.90	2744	130.90	1002	144.95	616

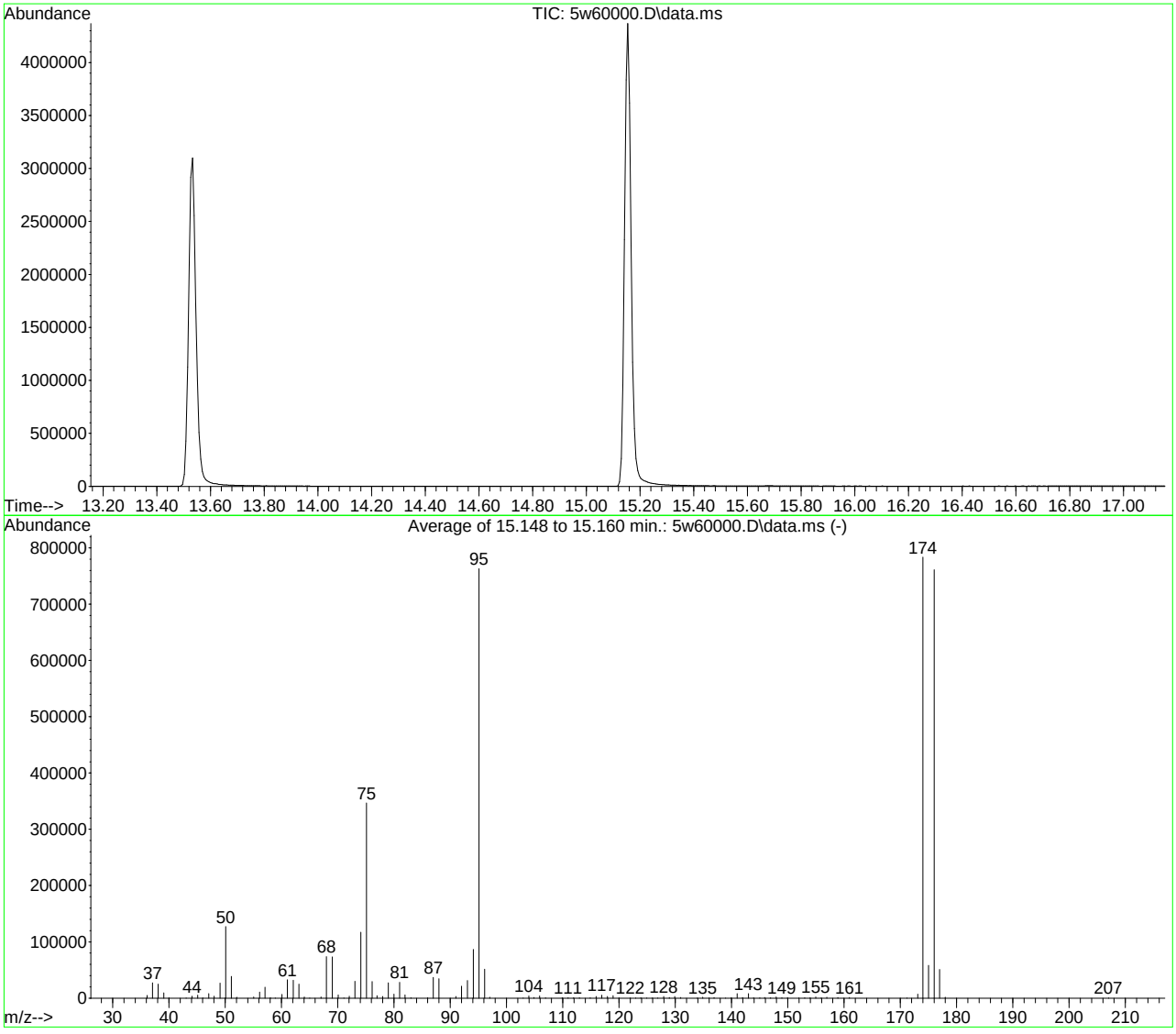
Average of 15.148 to 15.160 min.: 5w59768.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.90	1065	158.00	77	177.95	1268		
146.95	543	158.90	800	207.00	73		
147.95	1676	160.95	830	262.10	64		
148.95	564	168.05	273	267.00	88		
149.90	853	169.15	140	296.00	119		
151.90	371	170.10	70				
152.95	529	170.95	154				
153.95	452	174.00	662677				
154.95	1955	175.00	51795				
155.90	102	176.00	657579				
156.95	1271	177.00	45267				

BFB

Data File : X:\Dayton VOA GCMS\C...025\V5W2301\5w60000.D Vial: 1
Acq On : 24 Nov 2025 9:12 am Operator: benk
Sample : bfb Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2292.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2135, 2136, 2137; Background Corrected with Scan 2127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	126995	PASS
75	95	30	66	45.5	346987	PASS
95	95	100	100	100.0	763029	PASS
96	95	5	9	6.7	51400	PASS
173	174	0.00	2	0.9	6908	PASS
174	95	50	120	102.7	783595	PASS
175	174	4	9	7.4	58229	PASS
176	174	93	101	97.1	761195	PASS
177	176	5	9	6.7	50824	PASS

5w60000.D M5w2292.M Tue Nov 25 23:08:37 2025

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	4650	49.10	26525	62.10	31869	74.10	117019
37.10	27331	50.10	126995	63.10	24912	75.10	346987
38.10	24979	51.10	38837	64.05	2223	76.10	29517
39.10	9324	52.05	1658	65.00	241	77.00	4337
40.00	204	55.05	1920	67.05	1906	78.00	3156
43.05	281	56.10	10853	68.00	73867	79.00	27331
44.10	3527	57.10	19475	69.05	73197	80.00	7302
45.10	5492	58.05	758	70.10	5545	81.00	28117
46.05	417	58.90	105	71.10	91	81.95	5771
47.10	8187	60.10	6537	72.05	3589	83.00	606
48.05	3627	61.05	32525	73.05	29765	86.00	841

Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	36965	104.90	1240	118.95	4253	130.95	1208
88.00	34704	105.90	3734	120.00	67	133.90	164
91.00	3137	106.95	790	122.00	69	134.90	1543
92.00	21184	109.90	548	122.95	268	136.00	273
93.05	31387	110.95	694	123.90	547	136.90	1399
94.10	86395	111.90	555	124.95	239	138.95	311
95.10	763029	112.95	714	125.95	349	139.95	560
96.10	51400	114.90	873	126.90	319	141.00	7918
97.05	1522	115.95	3019	127.95	3130	141.95	985
102.95	392	116.95	5208	128.95	1381	143.00	8168
103.95	3865	117.95	3230	129.90	3066	143.90	507

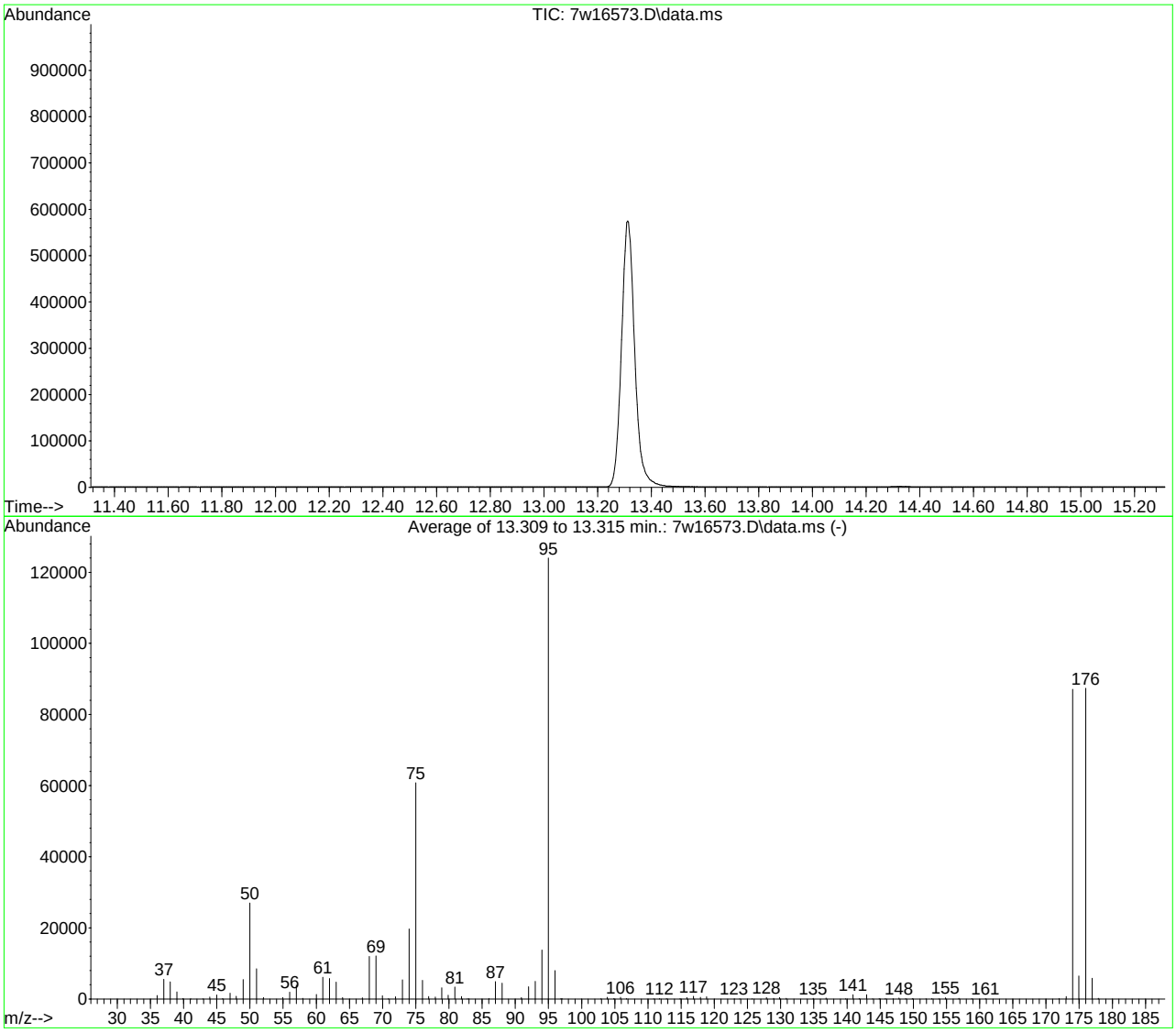
Average of 15.148 to 15.160 min.: 5w60000.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.00	756	156.95	1491				
145.90	1168	158.90	960				
146.95	496	160.95	1022				
147.95	2087	171.20	121				
148.95	494	173.10	6908				
149.95	844	174.00	783595				
151.95	343	175.00	58229				
153.00	621	176.00	761195				
153.95	558	177.00	50824				
154.95	2182	178.00	1438				
155.95	294	207.00	83				

BFB

Data File : C:\msdchem\1\data\GCMS7W\7w16573.D Vial: 1
Acq On : 7 Aug 2025 2:05 am Operator: benk
Sample : bfb Inst : MS7W
Misc : MS93209,v7w577,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7wbfb.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.8	26979	PASS
75	95	30	66	49.0	60811	PASS
95	95	100	100	100.0	123992	PASS
96	95	5	9	6.4	7953	PASS
173	174	0.00	2	0.8	724	PASS
174	95	50	120	70.2	87088	PASS
175	174	4	9	7.5	6502	PASS
176	174	93	101	100.3	87355	PASS
177	176	5	9	6.7	5835	PASS

7w16573.D M7wbfb.M Thu Aug 07 19:41:55 2025

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1003	47.95	740	62.00	5766	75.00	60811
37.00	5547	49.00	5430	63.00	4750	76.00	5229
38.00	4772	50.00	26979	63.95	424	76.95	708
39.00	2026	51.00	8474	66.95	299	77.95	540
39.90	124	52.05	389	68.00	11924	78.90	3135
41.10	25	54.95	396	69.00	12070	79.90	1017
42.90	41	56.00	1901	69.95	941	80.90	3372
43.95	582	57.00	3847	70.85	48	81.90	685
45.00	1100	57.95	166	71.95	619	82.80	43
45.90	98	60.00	1293	73.00	5387	83.00	36
47.00	1625	61.00	6112	74.00	19688	86.05	112

Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	4905	103.85	440	118.85	584	140.90	1229
88.00	4464	104.85	140	123.00	27	141.85	127
90.90	435	105.85	490	123.85	46	142.95	1190
92.00	3416	106.75	134	125.70	18	143.85	47
93.00	4959	110.85	68	127.85	413	144.85	107
94.00	13797	111.75	95	128.95	195	145.80	112
95.00	123992	112.80	80	129.85	393	146.95	49
96.00	7953	114.85	127	130.85	195	147.85	242
96.90	94	115.85	424	134.90	189	148.85	86
97.05	108	116.85	766	136.85	220	149.85	102
102.90	18	117.90	451	139.80	24	151.90	32

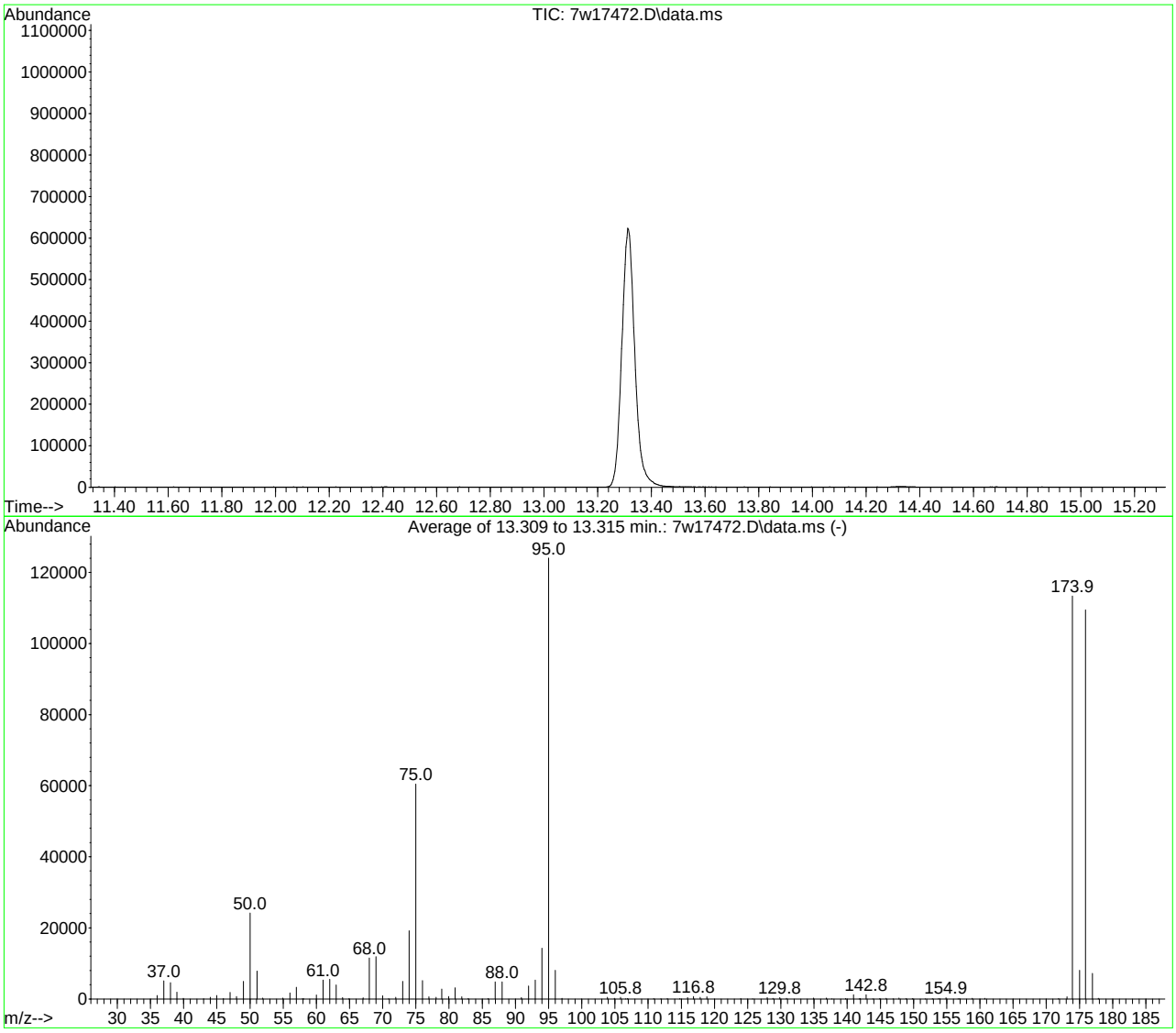
Average of 13.309 to 13.315 min.: 7w16573.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.80	91	176.95	5835				
153.85	70	177.90	218				
154.85	324						
156.85	216						
158.80	101						
160.90	114						
171.95	93						
173.05	724						
174.00	87088						
174.95	6502						
176.00	87355						

BFB

Data File : X:\Dayton VOA GCMS\k...2925\v7w613\7w17472.D Vial: 1
Acq On : 26 Sep 2025 10:25 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97385,v7w613,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4112, 4113, 4114; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	24211	PASS
75	95	30	66	48.8	60491	PASS
95	95	100	100	100.0	124040	PASS
96	95	5	9	6.5	8048	PASS
173	174	0.00	2	0.6	644	PASS
174	95	50	120	91.4	113392	PASS
175	174	4	9	7.1	8039	PASS
176	174	93	101	96.6	109491	PASS
177	176	5	9	6.6	7193	PASS

7w17472.D M7W577.M Mon Sep 29 17:06:33 2025

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	994	49.00	4950	62.00	5501	74.00	19179
37.00	5126	50.00	24211	63.00	3974	75.00	60491
38.00	4613	51.05	7854	63.95	379	76.00	5147
39.00	1932	51.90	257	64.90	32	76.95	609
39.95	151	54.95	267	67.05	309	78.05	463
43.00	44	56.00	1686	68.00	11538	78.90	2810
44.00	503	57.00	3259	69.00	11858	79.95	727
45.00	1015	57.90	119	70.00	932	80.90	3140
46.00	92	58.10	23	70.90	21	81.90	597
47.00	1841	60.00	1139	71.95	510	82.90	78
47.95	717	61.00	5344	73.00	4973	85.85	98

Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	4797	105.85	510	123.95	77	141.80	28
88.00	4809	106.60	20	125.75	39	141.95	105
90.90	382	106.90	116	127.95	391	142.85	1231
92.00	3682	110.85	88	128.80	181	143.85	52
93.00	5316	111.90	44	129.85	412	144.90	88
94.00	14286	112.90	99	130.85	210	145.85	149
95.00	124040	114.80	128	134.90	238	146.90	68
96.00	8048	115.95	365	136.85	239	147.80	291
97.00	215	116.85	679	137.70	22	148.85	103
103.85	482	117.85	469	139.75	93	149.80	113
104.90	165	118.85	609	140.95	1166	151.75	39

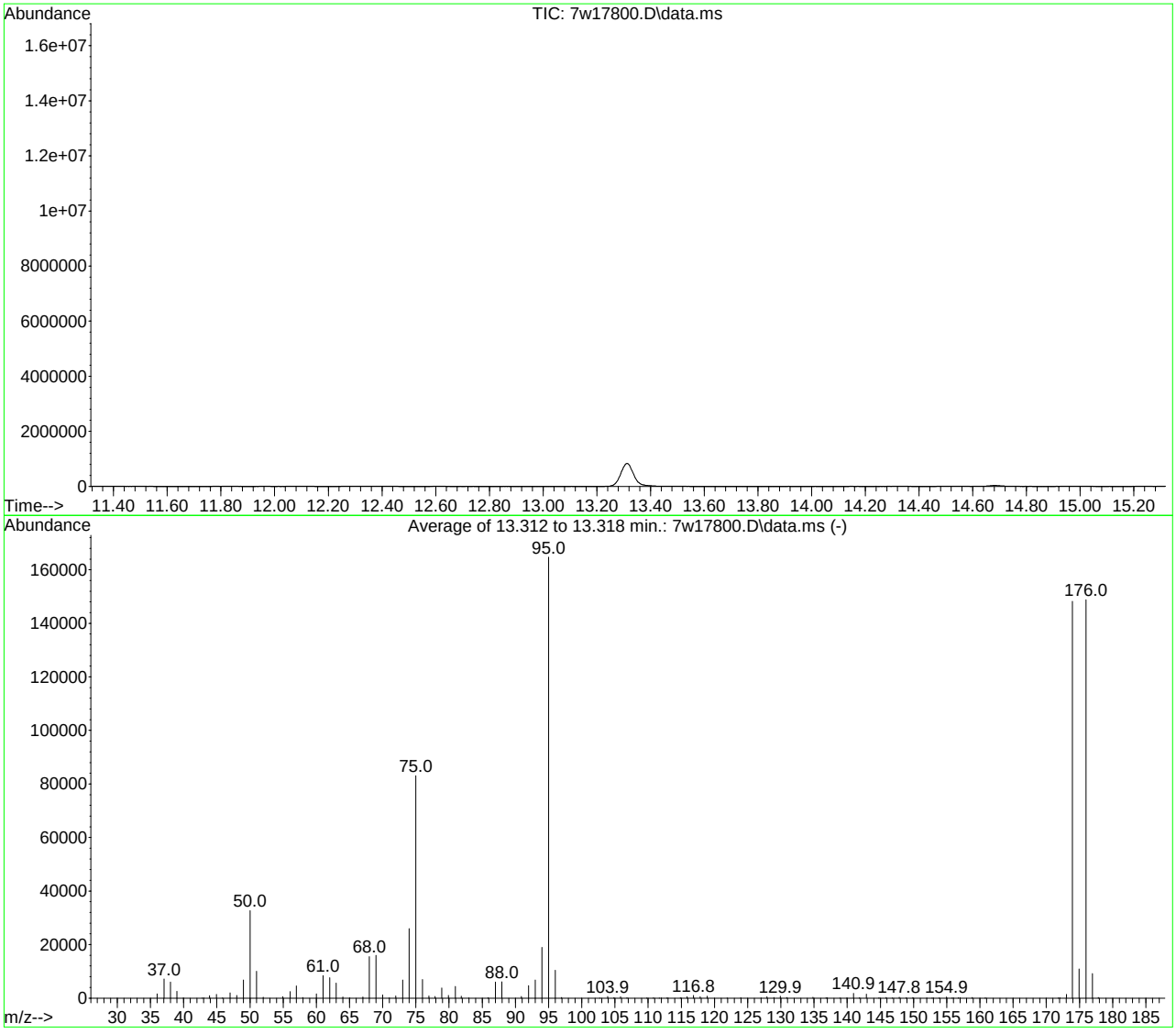
Average of 13.309 to 13.315 min.: 7w17472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.85	109	175.00	8039				
153.75	100	175.90	109491				
154.00	27	176.95	7193				
154.90	329	177.85	205				
156.70	41						
156.95	84						
158.85	175						
160.75	178						
171.85	118						
173.10	644						
173.95	113392						

BFB

Data File : X:\Dayton VOA GCMS\m...2025\V7W624\7w17800.D Vial: 4
Acq On : 13 Oct 2025 10:41 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS97882,v7w624,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4113, 4114, 4115; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.8	32653	PASS
75	95	30	66	50.4	83059	PASS
95	95	100	100	100.0	164693	PASS
96	95	5	9	6.3	10435	PASS
173	174	0.00	2	0.9	1376	PASS
174	95	50	120	90.0	148181	PASS
175	174	4	9	7.4	10927	PASS
176	174	93	101	100.4	148821	PASS
177	176	5	9	6.2	9210	PASS

7w17800.D M7W577.M Mon Oct 13 21:32:02 2025

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1548	48.00	998	62.00	7648	74.00	25928
37.05	7146	49.00	6797	63.00	5647	75.00	83059
38.00	6017	50.00	32653	64.00	469	76.00	6950
39.00	2546	51.00	10056	65.05	77	76.95	868
39.95	76	52.00	373	67.00	420	77.90	624
42.80	54	54.95	497	68.00	15526	78.90	3753
43.05	93	56.05	2421	69.00	16030	79.90	1027
43.90	913	57.00	4596	70.00	1185	80.95	4363
44.95	1374	57.95	241	71.00	23	81.85	687
45.85	94	60.00	1599	71.95	837	82.95	81
47.00	1988	61.00	8422	73.00	6766	85.85	192

Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	6024	104.85	174	116.85	972	136.80	132
87.95	6118	105.85	560	117.85	490	137.00	170
90.90	612	106.80	151	118.90	774	138.90	18
92.00	4652	109.80	57	121.90	30	139.95	66
93.00	6777	110.80	117	123.95	114	140.95	1778
94.00	18955	111.70	57	127.00	18	141.85	181
95.00	164693	112.00	28	127.90	524	142.90	1542
96.00	10435	112.80	81	128.95	268	144.80	153
96.95	293	113.00	43	129.90	709	145.85	237
102.70	47	114.85	180	130.90	269	146.80	75
103.90	664	115.85	548	134.85	315	147.85	387

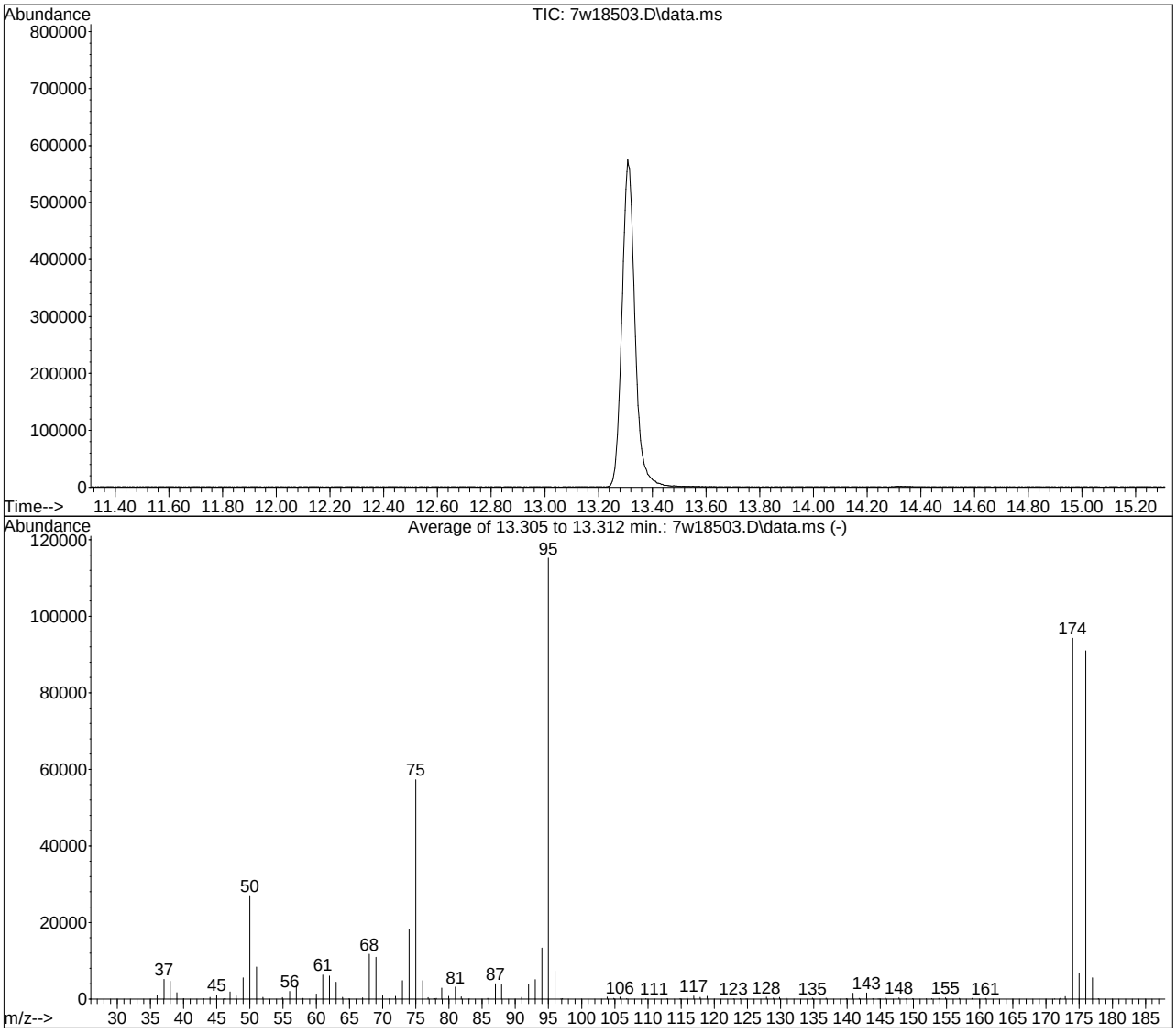
Average of 13.312 to 13.318 min.: 7w17800.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.90	132	158.85	205				
149.90	249	160.80	198				
152.00	18	171.80	84				
152.80	36	172.05	152				
153.00	89	173.05	1376				
153.85	77	173.95	148181				
154.95	434	174.95	10927				
155.80	23	176.00	148821				
156.00	23	176.95	9210				
156.75	173	177.85	232				
157.00	105						

BFB

Data File : C:\msdchem\1\data\ge...2025\V7W647\7w18503.D Vial: 1
Acq On : 12 Nov 2025 10:56 am Operator: thomash
Sample : bfb Inst : MS7W
Misc : MS99029,v7w647,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4111, 4112, 4113; Background Corrected with Scan 4084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.5	27053	PASS
75	95	30	66	49.7	57293	PASS
95	95	100	100	100.0	115216	PASS
96	95	5	9	6.4	7334	PASS
173	174	0.00	2	0.7	656	PASS
174	95	50	120	81.8	94288	PASS
175	174	4	9	7.2	6833	PASS
176	174	93	101	96.5	91013	PASS
177	176	5	9	6.1	5531	PASS

7w18503.D M7W577.M Thu Nov 13 17:12:00 2025

Average of 13.305 to 13.312 min.: 7w18503.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	951	47.95	812	62.00	6038	74.00	18283
37.05	5170	49.00	5528	63.00	4428	75.00	57293
38.00	4645	50.00	27053	63.95	475	76.05	4809
39.00	1659	51.00	8373	64.95	53	76.85	394
40.00	79	51.95	439	67.00	275	77.70	104
43.00	104	54.90	396	68.00	11736	77.90	93
44.00	456	56.00	1954	69.00	10913	78.10	159
45.00	1027	57.00	3546	70.00	825	78.90	2841
46.10	21	58.00	167	71.00	20	79.95	728
46.30	33	60.00	1326	71.95	687	80.95	3118
47.00	1846	61.00	6254	73.00	4782	81.85	572

Average of 13.305 to 13.312 min.: 7w18503.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.05	63	97.10	133	117.85	434	136.85	237
85.85	173	103.85	505	118.90	737	139.90	89
87.00	3974	104.85	164	122.90	17	140.90	1481
87.95	3752	105.80	537	123.90	98	141.85	150
90.95	413	106.80	100	124.80	18	142.95	1612
92.00	3764	109.70	74	127.85	521	143.90	79
93.00	5054	110.95	79	128.90	242	144.70	26
94.00	13348	112.90	109	129.85	463	144.95	59
95.00	115216	114.85	82	130.85	222	145.80	222
96.00	7334	115.90	507	134.80	239	147.85	320
96.90	38	116.90	790	135.80	22	148.90	20

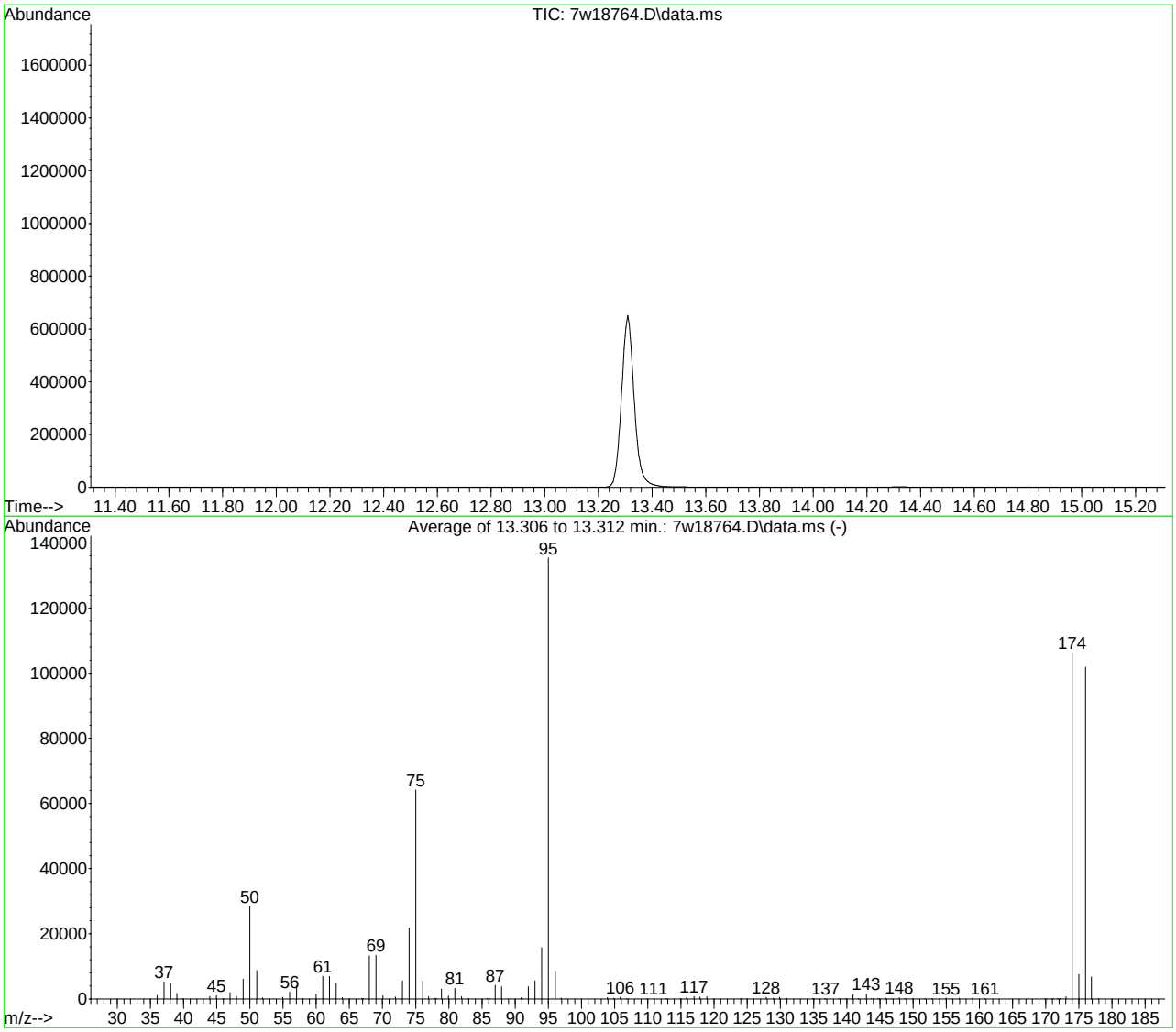
Average of 13.305 to 13.312 min.: 7w18503.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.90	101	174.00	94288				
151.95	68	175.00	6833				
152.75	93	176.00	91013				
153.85	140	177.00	5531				
154.85	320	177.90	133				
156.95	193						
158.85	150						
160.90	152						
171.30	64						
172.15	152						
172.90	656						

BFB

Data File : X:\Dayton VOA GCMS\C...2025\V7W655\7w18764.D Vial: 1
Acq On : 24 Nov 2025 9:14 am Operator: williamc
Sample : bfb Inst : MS7W
Misc : MS99437,v7w655,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4111, 4112, 4113; Background Corrected with Scan 4082

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.0	28461	PASS
75	95	30	66	47.4	64213	PASS
95	95	100	100	100.0	135381	PASS
96	95	5	9	6.3	8482	PASS
173	174	0.00	2	0.7	713	PASS
174	95	50	120	78.5	106256	PASS
175	174	4	9	7.1	7559	PASS
176	174	93	101	95.9	101904	PASS
177	176	5	9	6.6	6737	PASS

7w18764.D M7W577.M Wed Nov 26 01:52:34 2025

Average of 13.306 to 13.312 min.: 7w18764.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1063	49.00	6077	63.00	4803	75.00	64213
37.05	5237	50.00	28461	63.95	441	76.05	5595
38.05	4754	51.05	8691	65.10	40	76.95	684
39.00	1737	51.90	324	66.90	179	77.85	192
39.85	118	54.95	484	67.10	123	78.10	187
43.95	777	56.00	2105	68.00	13199	78.90	3030
44.95	990	57.05	3980	69.00	13380	79.95	942
45.90	26	58.00	154	70.05	977	80.90	3316
46.10	83	60.00	1452	71.95	618	81.90	718
47.00	1909	61.00	7022	73.00	5590	83.00	92
48.00	872	62.00	6944	74.00	21773	85.80	95

Average of 13.306 to 13.312 min.: 7w18764.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.15	89	103.90	476	116.95	724	135.85	61
87.00	4246	104.85	204	117.85	567	136.70	73
87.95	3753	105.85	522	118.90	678	136.85	142
90.90	350	106.80	69	124.00	97	138.80	69
91.10	109	107.00	73	126.00	18	139.85	138
92.00	3756	109.75	37	127.85	536	140.95	1327
93.00	5589	110.90	68	128.90	201	141.75	153
94.00	15726	112.70	51	129.85	506	142.95	1479
95.00	135381	112.90	48	130.95	213	143.70	27
96.05	8482	114.95	153	134.85	126	144.00	34
96.95	246	115.85	513	135.05	92	144.70	26

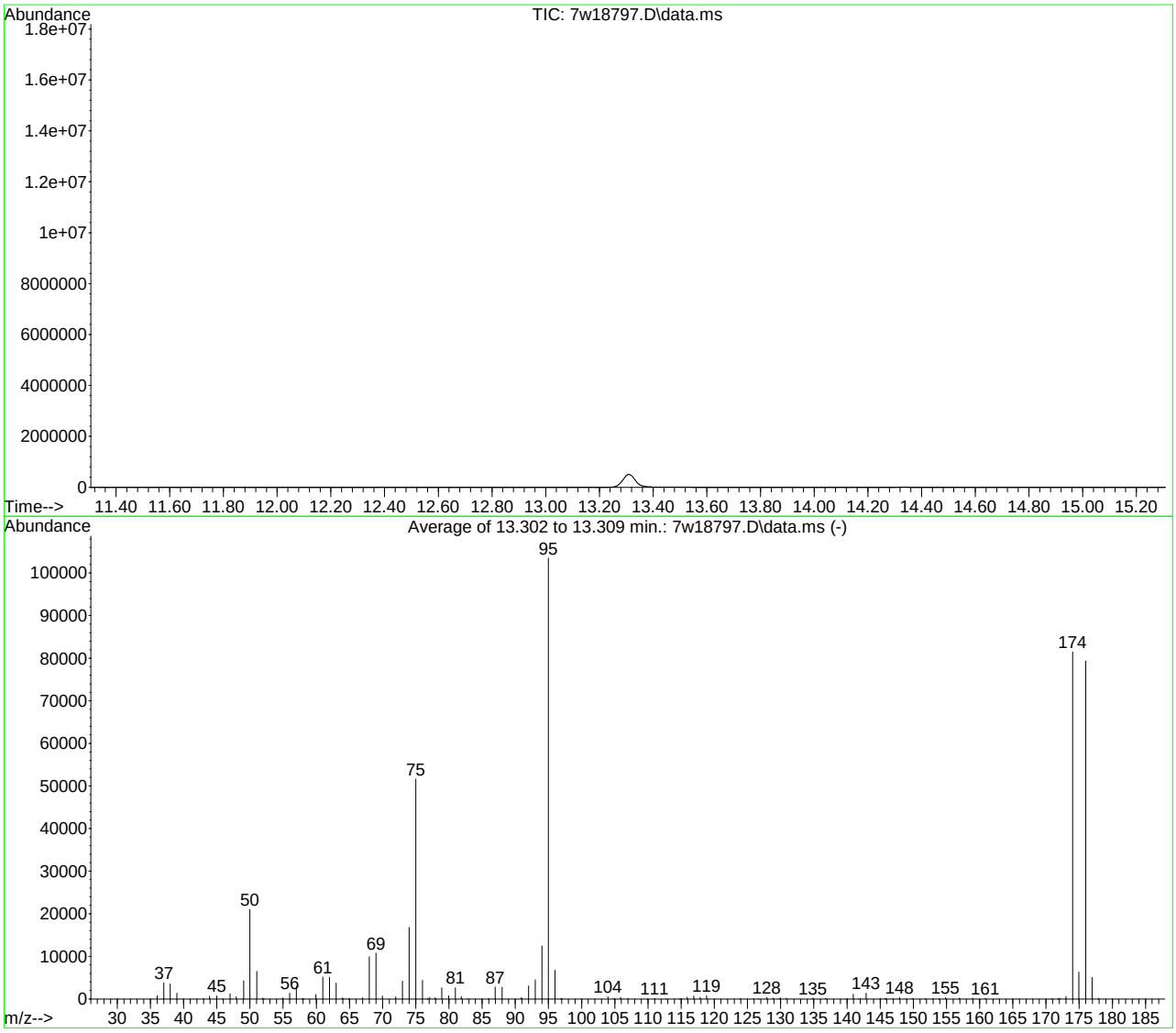
Average of 13.306 to 13.312 min.: 7w18764.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.90	89	155.90	55	173.05	713		
145.90	206	156.95	232	174.00	106256		
146.80	38	158.90	221	175.00	7559		
147.90	348	160.85	166	176.00	101904		
148.75	89	169.85	39	176.90	6737		
149.00	34	170.20	20	177.95	163		
149.95	198	170.90	42				
151.80	92	171.20	46				
152.85	135	171.70	31				
154.00	124	171.90	55				
154.95	287	172.15	155				

BFB

Data File : X:\Dayton VOA GCMS\C...2025\V7W656\7w18797.D Vial: 1
Acq On : 25 Nov 2025 10:02 am Operator: williamc
Sample : bfb Inst : MS7W
Misc : MS99437,v7w656,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W577.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4110, 4111, 4112; Background Corrected with Scan 4082

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.3	21043	PASS
75	95	30	66	49.9	51613	PASS
95	95	100	100	100.0	103501	PASS
96	95	5	9	6.5	6738	PASS
173	174	0.00	2	0.7	605	PASS
174	95	50	120	78.7	81472	PASS
175	174	4	9	7.7	6279	PASS
176	174	93	101	97.3	79312	PASS
177	176	5	9	6.4	5053	PASS

7w18797.D M7W577.M Thu Nov 27 01:11:51 2025

Average of 13.302 to 13.309 min.: 7w18797.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	733	50.00	21043	62.00	5087	74.00	16796
37.00	3757	51.05	6498	63.00	3708	75.00	51613
38.00	3533	51.90	235	63.90	252	76.00	4405
39.00	1364	52.10	101	64.10	70	76.80	151
43.00	18	54.95	273	64.90	114	77.10	408
43.90	650	56.00	1377	67.00	303	77.90	253
45.00	693	57.00	2965	68.00	9915	78.10	51
45.90	54	57.90	82	69.00	10755	78.90	2610
47.00	1209	58.10	40	69.95	698	79.95	729
47.95	495	59.95	1069	72.00	508	80.95	2613
49.05	4264	61.00	5175	73.00	4208	81.85	503

Average of 13.302 to 13.309 min.: 7w18797.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.80	18	97.10	55	116.90	727	134.85	238
86.05	67	103.95	544	117.85	384	136.80	153
86.95	2790	104.90	160	118.85	745	139.90	62
88.00	2768	105.85	404	123.90	31	140.95	1135
90.90	341	106.95	65	125.90	30	141.70	40
92.00	3070	109.85	59	126.70	17	142.00	120
93.00	4495	111.00	71	127.90	360	142.90	1352
94.00	12456	112.70	39	128.85	223	145.00	136
95.00	103501	114.80	60	129.80	118	145.70	42
96.00	6738	115.00	26	129.95	275	145.85	141
96.90	140	115.90	412	130.85	162	146.90	97

Average of 13.302 to 13.309 min.: 7w18797.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.90	319	171.85	124				
148.90	34	172.10	108				
149.80	151	173.00	605				
151.80	31	174.00	81472				
152.90	64	174.95	6279				
153.90	70	176.00	79312				
154.85	300	176.95	5053				
156.95	193	177.90	166				
158.90	143						
160.85	177						
170.80	23						

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	470818	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2113713	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1047801	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	474427	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1393397	10.72	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 107.20%				
Target Compounds							Qvalue
2) FREON 115	3.378	119	1822	0.06	PPBV		95
3) FREON 152A	3.457	65	2398	0.07	PPBV		97
4) CHLORODIFLUOROMETHANE	3.482	67	522	0.04	PPBV	#	44
5) CHLOROTRIFLUOROETHENE	3.512	116	3060	0.04	PPBV		95
6) DICHLORODIFLUOROMETHANE	3.555	85	5958	0.04	PPBV		95
7) PROPYLENE	3.512	41	2388m	0.07	PPBV		
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	5550m	0.05	PPBV		
9) FREON 114	3.732	85	6084	0.05	PPBV		93
10) CHLOROMETHANE	3.671	52	845	0.06	PPBV	#	32
11) VINYL CHLORIDE	3.824	62	2035	0.05	PPBV	#	39
12) 1,3-BUTADIENE	3.928	54	1523	0.06	PPBV	#	42
13) n-BUTANE	3.953	43	2825m	0.07	PPBV		
14) BROMOMETHANE	4.112	94	2464	0.05	PPBV	#	53
15) CHLOROETHANE	4.234	64	1697m	0.08	PPBV		
16) DICHLOROFLUOROMETHANE	4.301	67	4942	0.05	PPBV	#	84
17) ACETONITRILE	4.534	41	1278	0.05	PPBV	#	61
18) ACROLEIN	4.620	56	728m	0.05	PPBV		
19) FREON 123	4.607	83	6421	0.06	PPBV		76
20) FREON 123A	4.644	117	3274	0.05	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	5153	0.05	PPBV	#	77
22) ISOPROPYL ALCOHOL	4.938	45	5219m	0.06	PPBV		
23) ACETONE	4.730	58	1951	0.11	PPBV		95
24) PENTANE	5.084	42	3370	0.08	PPBV		76
25) IODOMETHANE	5.256	142	6273	0.04	PPBV		87
26) 1,1-DICHLOROETHYLENE	5.323	96	2915	0.06	PPBV	#	58
27) CARBON DISULFIDE	5.684	76	5982	0.05	PPBV		90
28) ETHANOL	4.350	45	2592	0.17	PPBV		78
29) BROMOETHENE	4.491	106	2283	0.05	PPBV	#	64
30) ACRYLONITRILE	5.109	52	1514	0.05	PPBV	#	71
31) METHYLENE CHLORIDE	5.427	84	2871	0.06	PPBV		97
32) 3-CHLOROPROPENE	5.537	76	1170	0.05	PPBV	#	68
33) FREON 113	5.647	151	3628	0.04	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.253	96	2781m	0.05	PPBV		
35) TERTIARY BUTYL ALCOHOL	5.482	59	3750	0.04	PPBV		78
36) METHYL TERTIARY BUTYL ...	6.565	73	7842	0.06	PPBV		90
38) HEXANE	7.385	57	3894	0.05	PPBV		89
40) 1,1-DICHLOROETHANE	6.436	63	5305	0.06	PPBV		94
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3901	0.07	PPBV	#	54
43) DIISOPROPYL ETHER	7.458	59	536	0.03	PPBV	#	1
44) ETHYL ACETATE	7.207	61	3226	0.23	PPBV	#	1
45) METHYL ACRYLATE	7.397	55	878	0.01	PPBV	#	65
46) CHLOROFORM	7.489	83	4783	0.05	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	8.229	57	4175	0.05	PPBV		91
48) 1,1,1-TRICHLOROETHANE	8.413	97	4728	0.04	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	4970	0.04	PPBV		99
50) 1,2-DICHLOROETHANE	8.192	62	3147	0.04	PPBV	#	73
52) BENZENE	8.871	78	6471	0.05	PPBV		84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

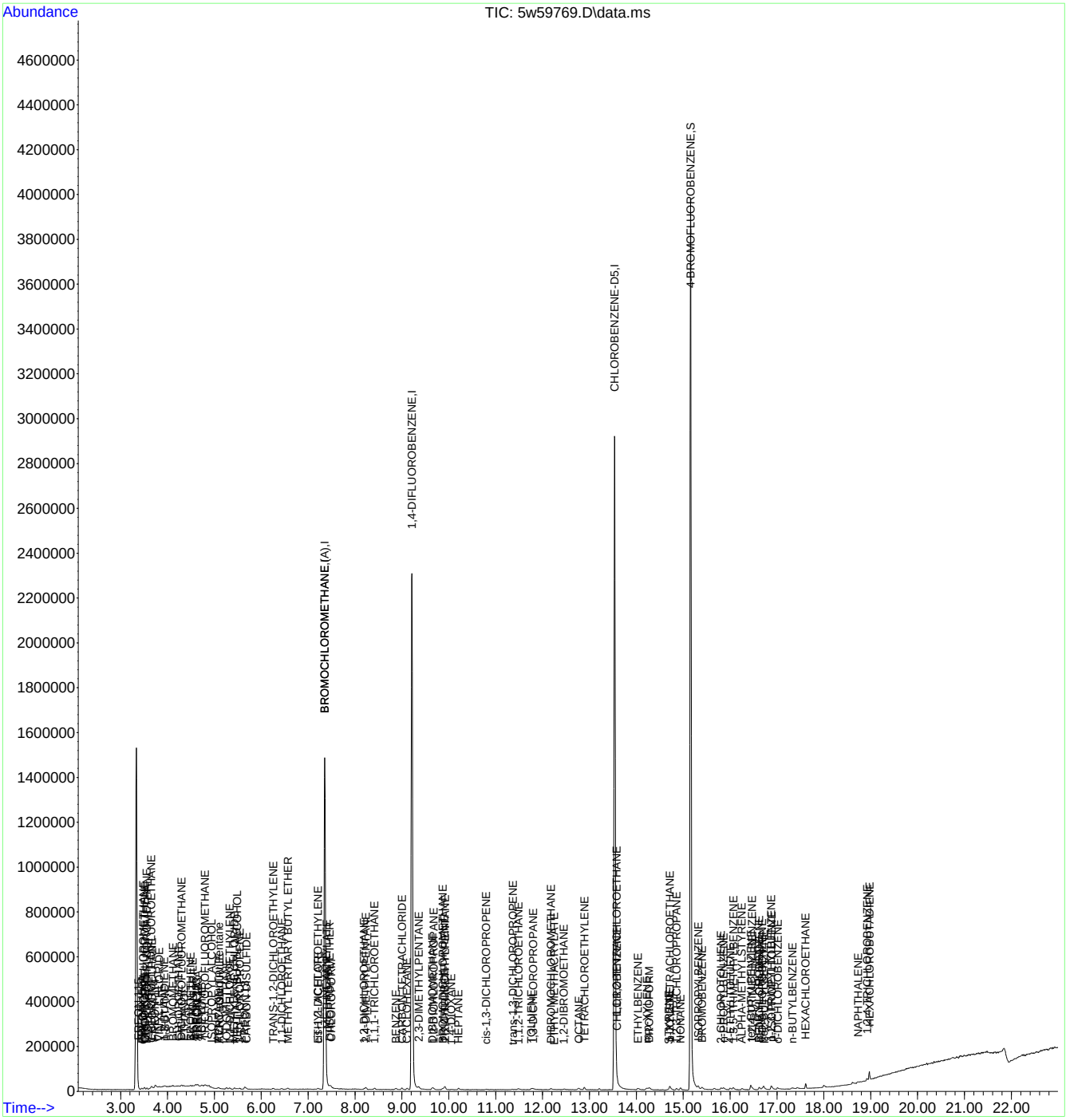
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53)	CYCLOHEXANE	9.104	84	2517	0.04	PPBV		86
54)	2,3-DIMETHYLPENTANE	9.361	71	1176	0.04	PPBV	#	68
55)	TRICHLOROETHYLENE	9.905	95	2913	0.04	PPBV		91
56)	1,2-DICHLOROPROPANE	9.673	63	3887m	0.06	PPBV		
57)	DIBROMOMETHANE	9.648	174	3768	0.05	PPBV		94
59)	BROMODICHLOROMETHANE	9.869	83	4912	0.04	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	10699	0.05	PPBV		97
61)	1,4-DIOXANE	10.052	88	1059	0.03	PPBV	#	1
62)	HEPTANE	10.205	43	4522	0.06	PPBV		88
65)	cis-1,3-DICHLOROPROPENE	10.792	75	4969	0.05	PPBV		77
66)	TOLUENE	11.759	92	4059	0.04	PPBV		84
67)	1,3-DICHLOROPROPANE	11.796	76	3478	0.04	PPBV	#	53
68)	trans-1,3-DICHLOROPROPENE	11.361	75	4586	0.05	PPBV		80
69)	1,1,2-TRICHLOROETHANE	11.484	83	2006	0.03	PPBV		89
72)	ETHYL METHACRYLATE	12.248	69	735	0.01	PPBV	#	1
73)	TETRACHLOROETHYLENE	12.891	164	3089	0.04	PPBV		89
74)	DIBROMOCHLOROMETHANE	12.181	129	5067	0.04	PPBV		93
75)	1,2-DIBROMOETHANE	12.450	107	3668	0.04	PPBV	#	91
76)	OCTANE	12.768	43	6243m	0.07	PPBV		
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	3434	0.04	PPBV		95
78)	CHLOROBENZENE	13.588	112	6320	0.05	PPBV	#	50
79)	ETHYLBENZENE	14.035	91	9593	0.05	PPBV		86
80)	m,p-XYLENE	14.224	106	6608	0.08	PPBV	#	91
81)	o-XYLENE	14.714	106	3154	0.04	PPBV	#	64
82)	STYRENE	14.695	104	3881	0.03	PPBV		84
83)	NONANE	14.940	43	5771	0.06	PPBV		90
84)	BROMOFORM	14.273	173	4371	0.04	PPBV	#	93
86)	1,1,2,2-TETRACHLOROETHANE	14.714	83	5918	0.05	PPBV		95
87)	1,2,3-TRICHLOROPROPANE	14.854	75	5967	0.06	PPBV		74
88)	ISOPROPYLBENZENE	15.319	105	9953	0.04	PPBV		87
89)	BROMOBENZENE	15.399	77	5423	0.05	PPBV		89
90)	2-CHLOROTOLUENE	15.803	126	2313	0.04	PPBV		63
91)	n-PROPYLBENZENE	15.858	120	2252	0.04	PPBV	#	61
92)	4-ETHYLTOLUENE	16.005	105	7489m	0.04	PPBV		
93)	1,3,5-TRIMETHYLBENZENE	16.066	105	9751m	0.05	PPBV		
94)	ALPHA-METHYLSTYRENE	16.249	118	2895	0.03	PPBV		87
95)	tert-BUTYLBENZENE	16.445	134	1525	0.04	PPBV	#	63
96)	1,2,4-TRIMETHYLBENZENE	16.470	105	8180	0.05	PPBV	#	29
97)	m-DICHLOROBENZENE	16.622	146	4669	0.03	PPBV		89
98)	BENZYL CHLORIDE	16.622	91	4703	0.03	PPBV		83
99)	p-DICHLOROBENZENE	16.684	146	6829m	0.05	PPBV		
100)	sec-BUTYLBENZENE	16.714	134	2023	0.04	PPBV	#	72
101)	1,2,3-TRIMETHYLBENZENE	16.873	105	8480	0.04	PPBV		93
102)	p-ISOPROPYLTOLUENE	16.886	134	2164	0.04	PPBV	#	60
103)	o-DICHLOROBENZENE	17.014	146	5480	0.04	PPBV		94
104)	n-BUTYLBENZENE	17.332	134	1780	0.03	PPBV	#	47
105)	HEXACHLOROETHANE	17.607	117	4357	0.05	PPBV		95
106)	HEXACHLOROBUTADIENE	18.972	225	5840	0.05	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.923	180	5141	0.04	PPBV		96
108)	NAPHTHALENE	18.727	128	11614m	0.04	PPBV		
110)	TVHC as equiv Pentane	5.097	TIC	13430m	0.05	PPBV		

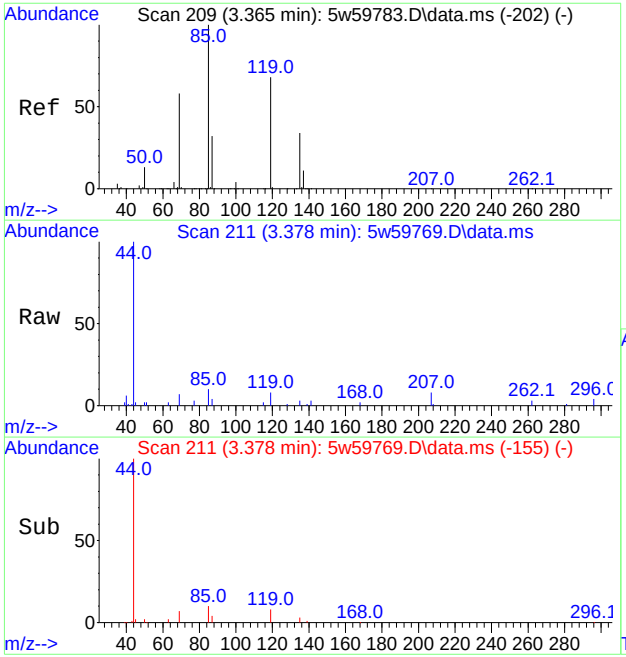
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 21:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration

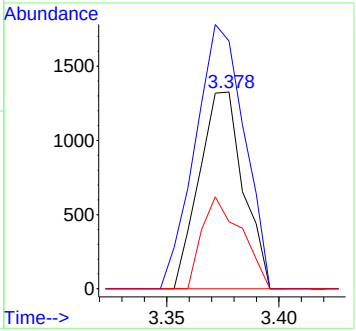


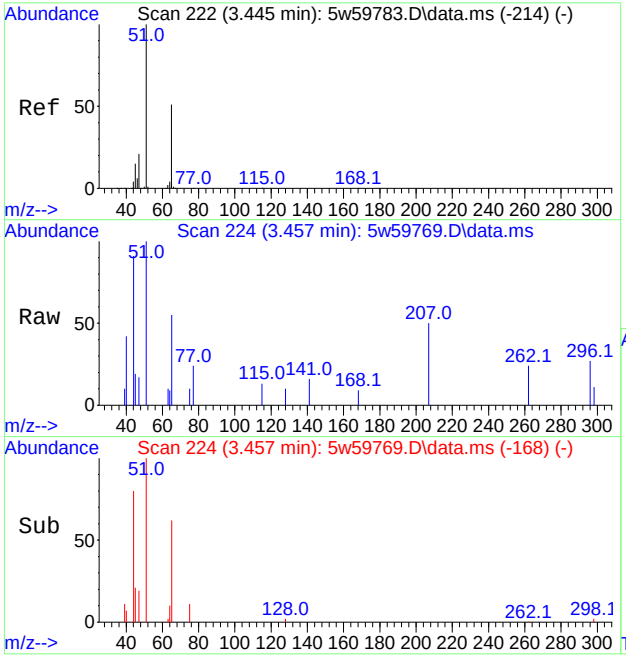


#2
FREON 115
Concen: 0.06 PPBV
RT: 3.378 min Scan# 211
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:119 Resp: 1822

Ion	Ratio	Lower	Upper
119	100		
85	149.2	116.2	176.2
135	41.9	20.6	80.6

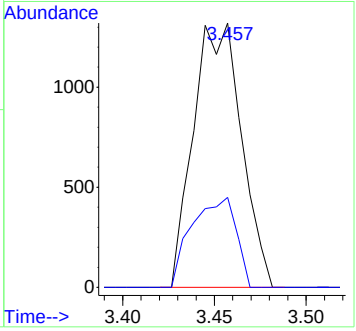


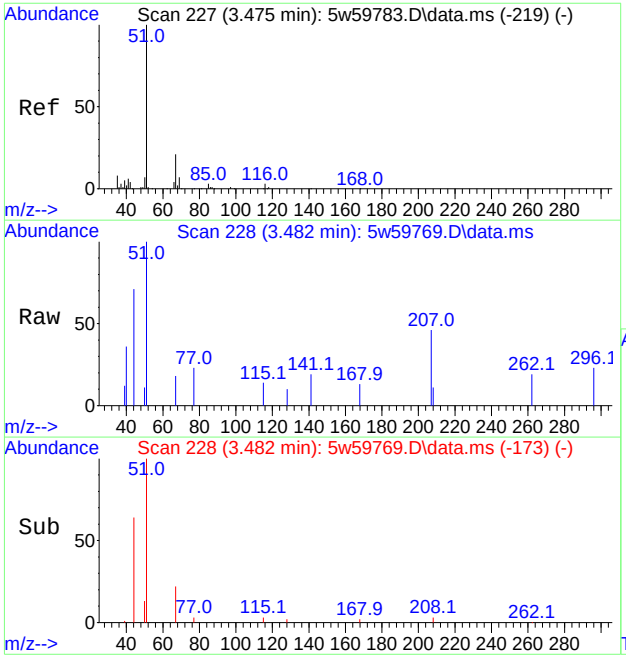


#3
FREON 152A
Concen: 0.07 PPBV
RT: 3.457 min Scan# 224
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 2398

Ion	Ratio	Lower	Upper
65	100		
45	31.4	0.0	60.0

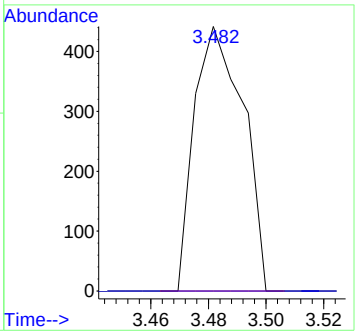


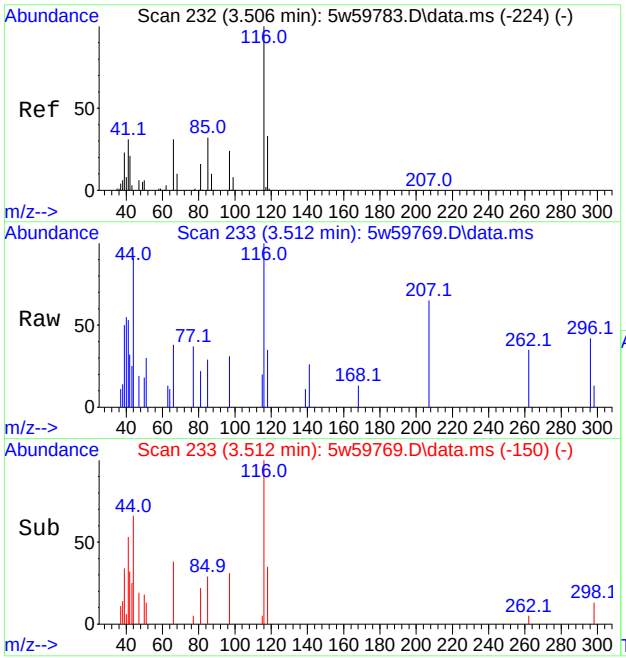


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 522

Ion	Ratio	Lower	Upper
67	100		
69	0.0	1.0	61.0#

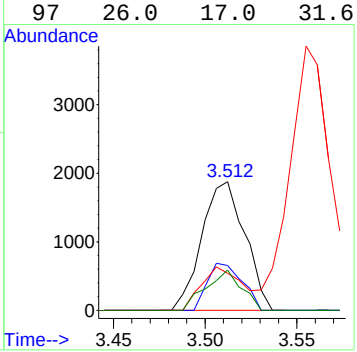


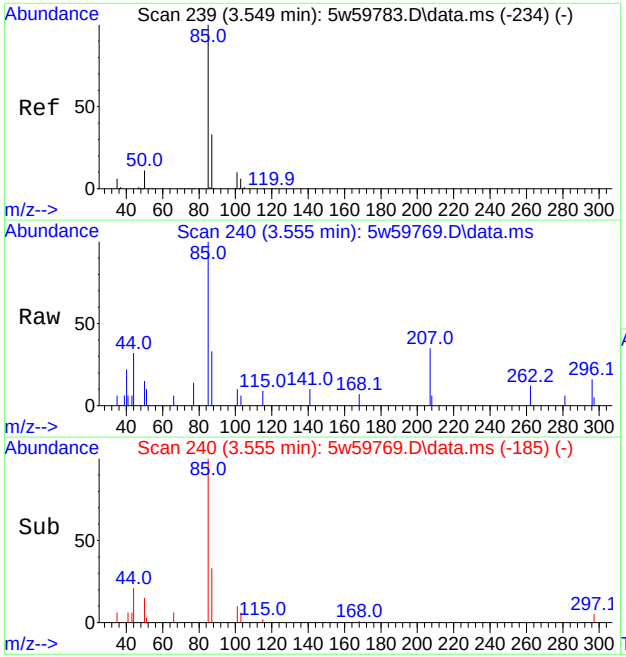


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 3.512 min Scan# 233
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:116 Resp: 3060

Ion	Ratio	Lower	Upper
116	100		
118	29.7	22.9	42.5
85	31.1	23.7	44.1
97	26.0	17.0	31.6

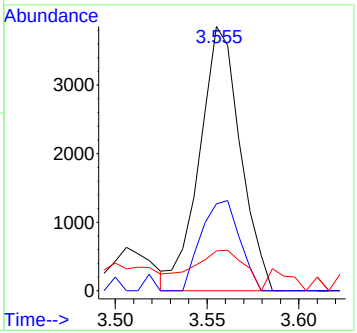


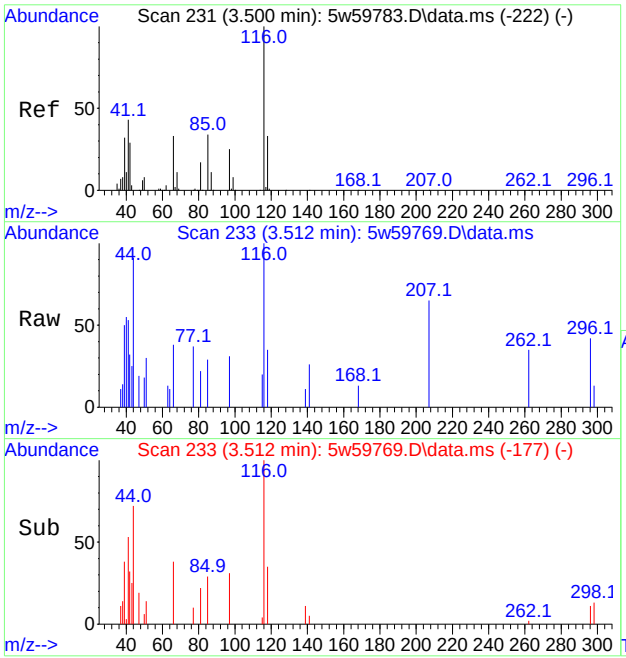


#6
DICHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 5958

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	18.7	0.0	41.7

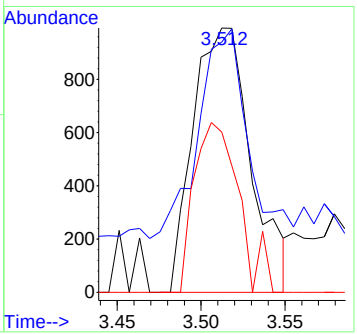


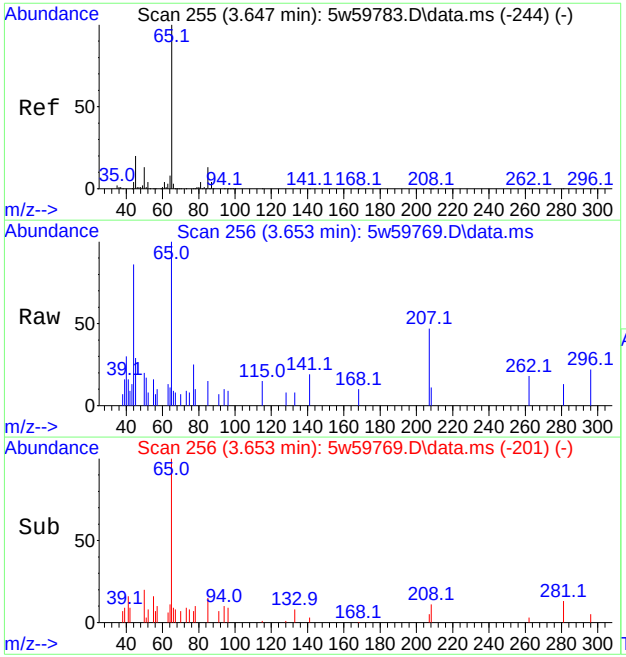


#7
PROPYLENE
Concen: 0.07 PPBV m
RT: 3.512 min Scan# 233
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 2388

Ion	Ratio	Lower	Upper
41	100		
39	236.5	45.1	105.1#
42	49.5	36.3	96.3

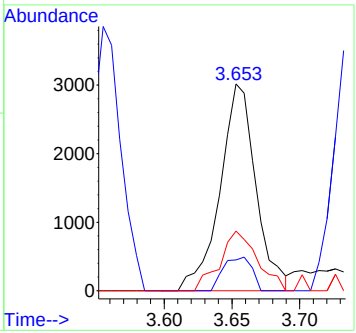


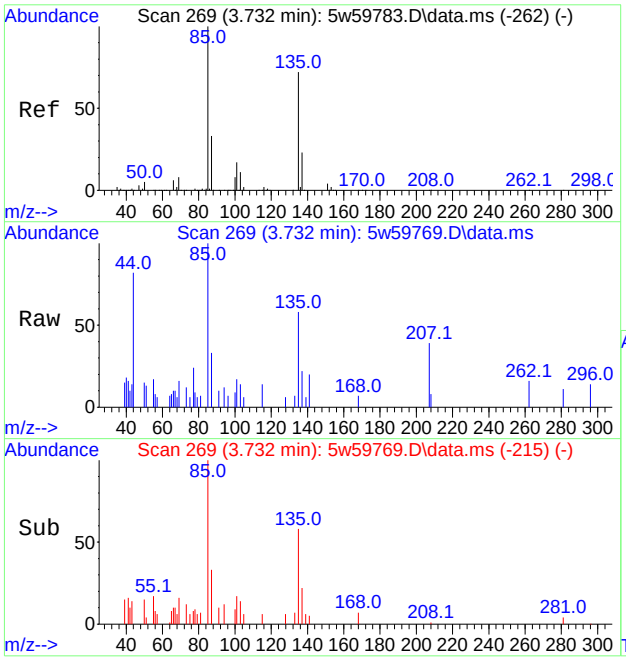


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.05 PPBV m
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 65 Resp: 5550

Ion	Ratio	Lower	Upper
65	100		
85	12.9	11.5	21.3
45	30.0	14.0	26.0#

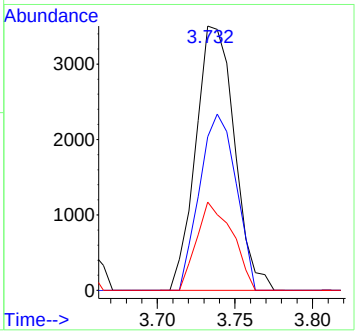


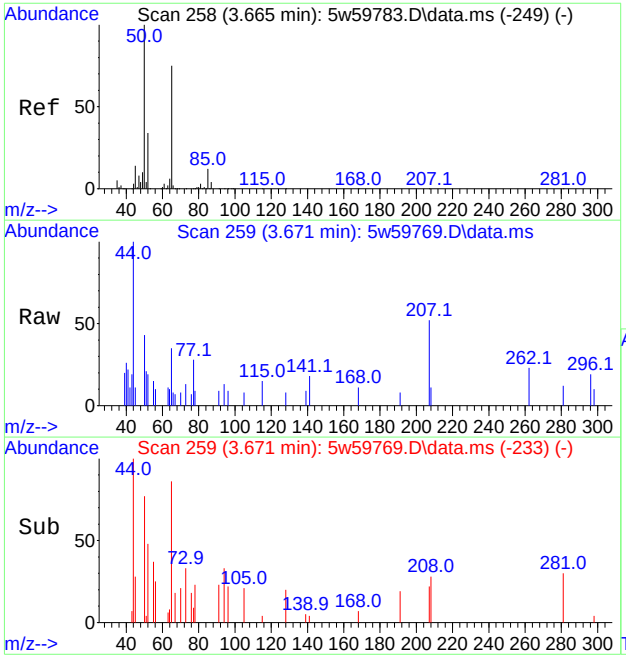


#9
FREON 114
Concen: 0.05 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 85 Resp: 6084

Ion	Ratio	Lower	Upper
85	100		
135	63.0	40.5	100.5
87	30.9	3.0	63.0

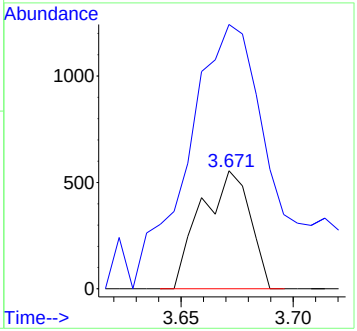


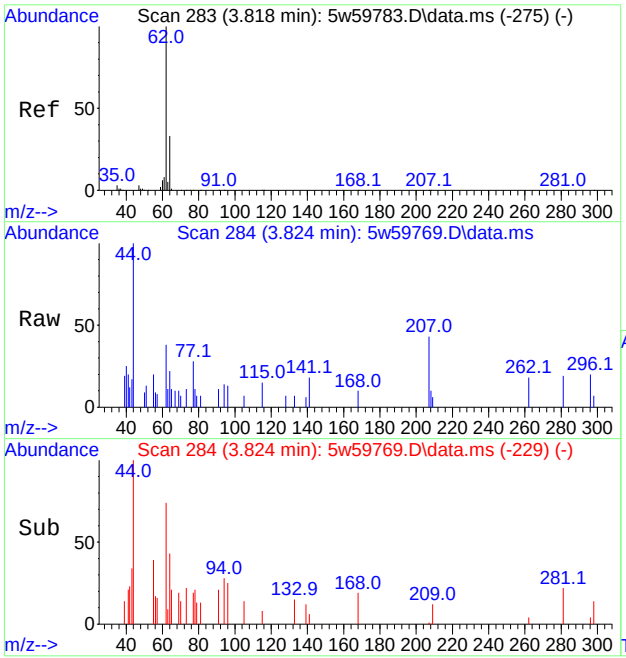


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 3.671 min Scan# 259
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 845

Ion	Ratio	Lower	Upper
52	100		
50	165.1	267.9	327.9#

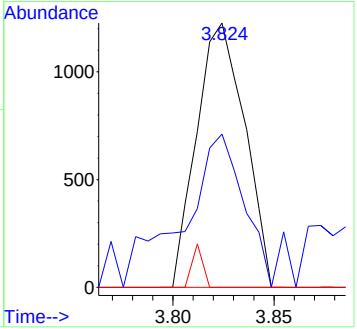


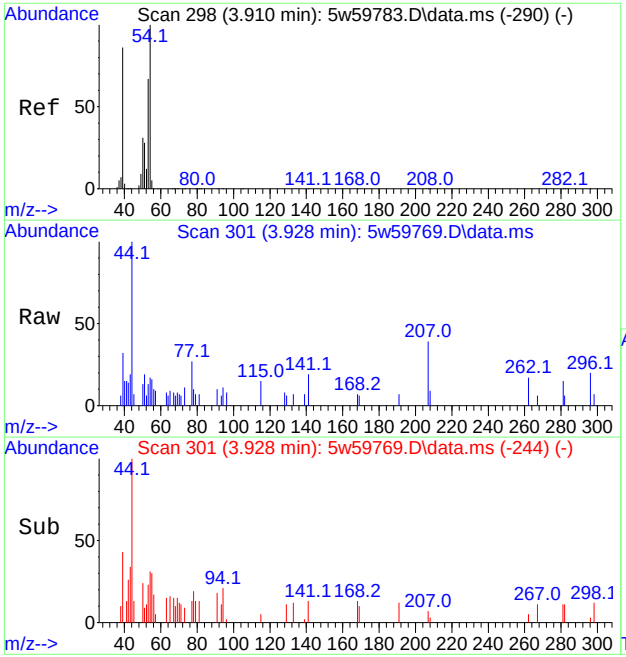


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 3.824 min Scan# 284
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 2035

Ion	Ratio	Lower	Upper
62	100		
64	73.5	3.6	63.6#
61	0.0	0.0	38.2

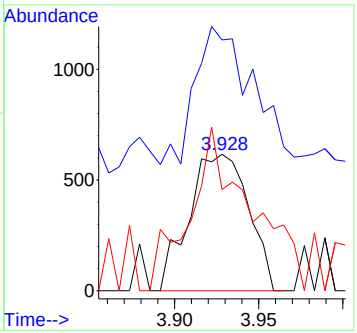


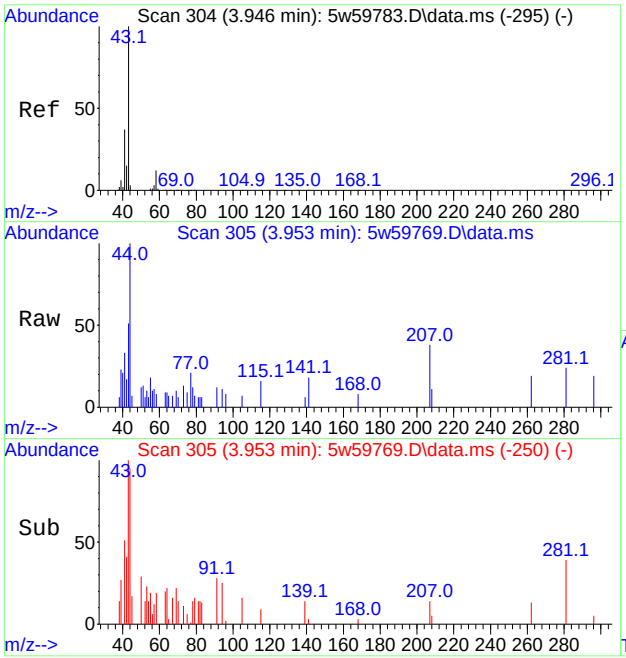


#12
1,3-BUTADIENE
Concen: 0.06 PPBV
RT: 3.928 min Scan# 301
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 54 Resp: 1523

Ion	Ratio	Lower	Upper
54	100		
39	168.7	82.0	142.0#
53	123.3	40.2	100.2#

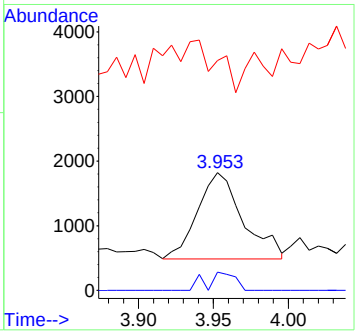


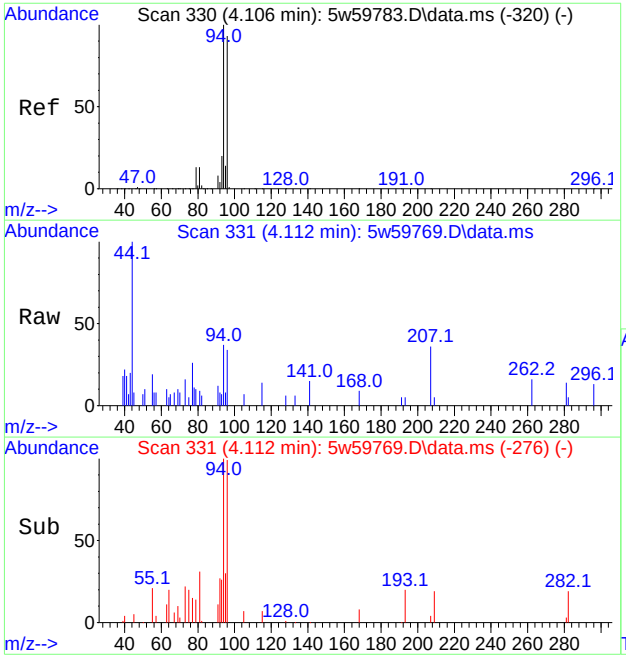


#13
n-BUTANE
Concen: 0.07 PPBV m
RT: 3.953 min Scan# 305
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 2825

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	0.0	0.0	34.9

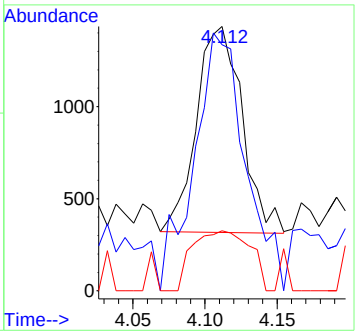


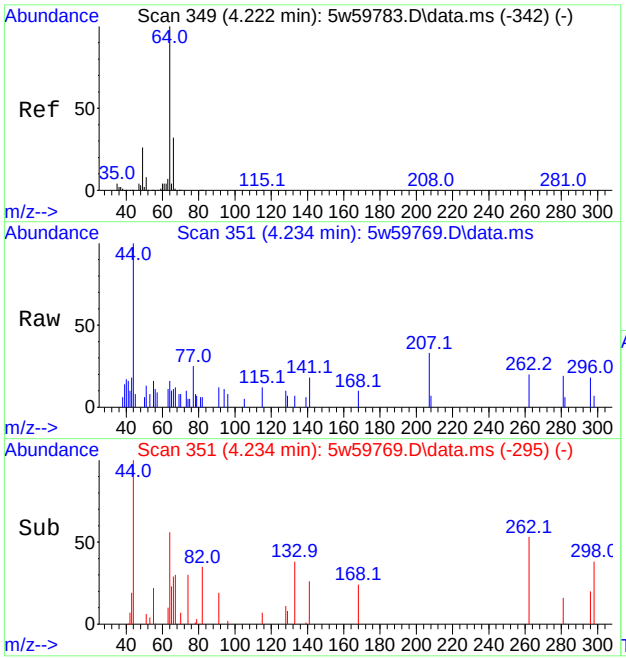


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 4.112 min Scan# 331
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 94 Resp: 2464

Ion	Ratio	Lower	Upper
94	100		
96	140.0	65.3	125.3#
95	36.8	0.0	44.1

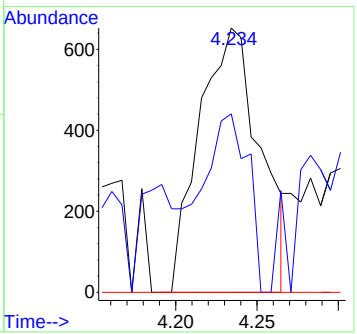


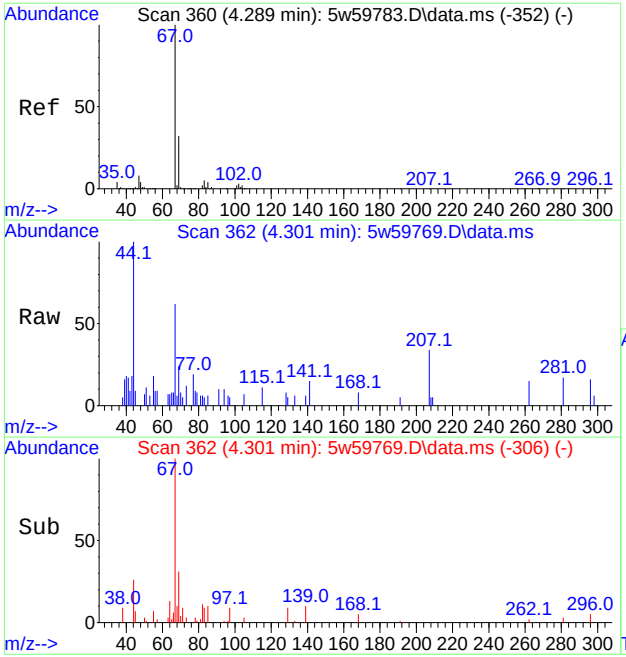


#15
CHLOROETHANE
Concen: 0.08 PPBV m
RT: 4.234 min Scan# 351
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 64 Resp: 1697

Ion	Ratio	Lower	Upper
64	100		
66	45.4	3.1	63.1
49	0.0	0.0	55.3

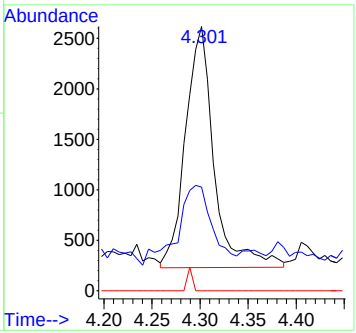


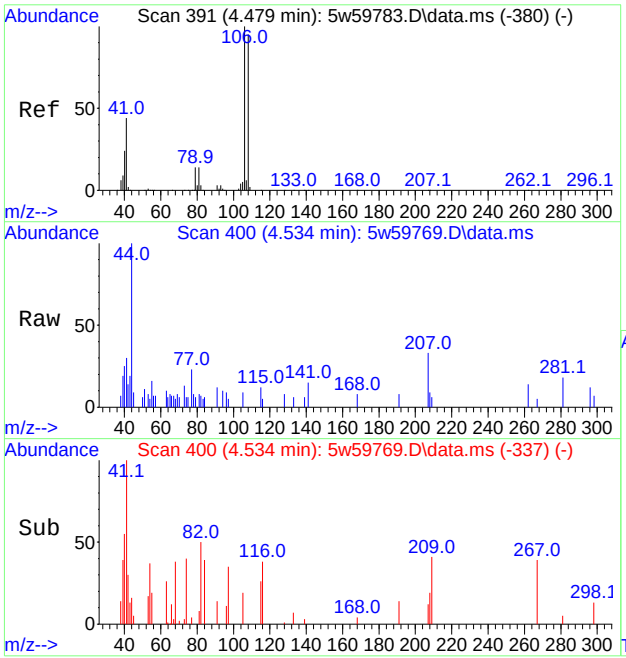


#16
DICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.301 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 67 Resp: 4942

Ion	Ratio	Lower	Upper
67	100		
69	40.5	22.7	42.3
47	0.0	5.6	10.4#

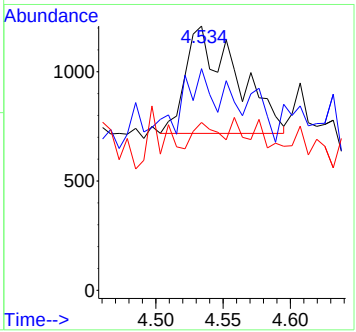


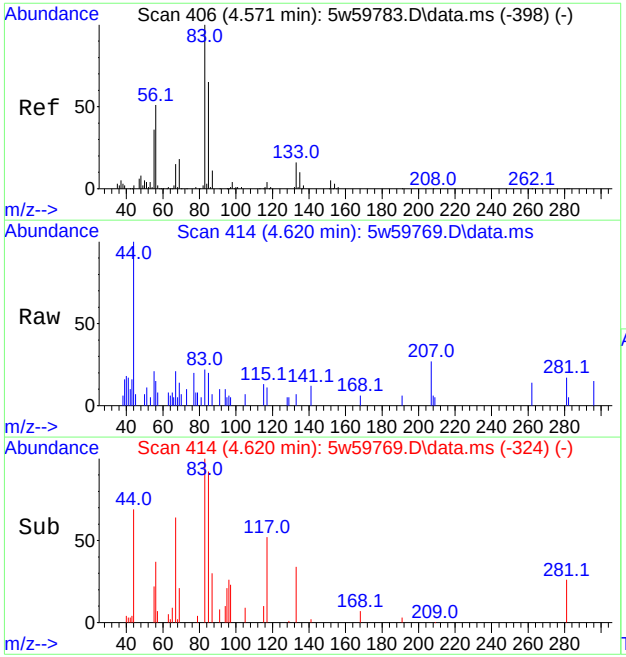


#17
ACETONITRILE
Concen: 0.05 PPBV
RT: 4.534 min Scan# 400
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 41 Resp: 1278

Ion	Ratio	Lower	Upper
41	100		
40	81.2	37.9	70.5#
39	0.0	13.4	24.8#

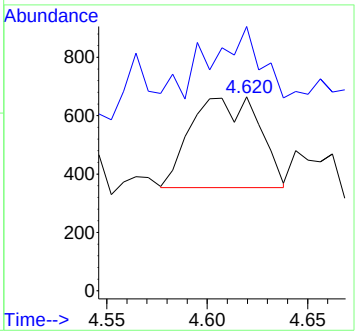


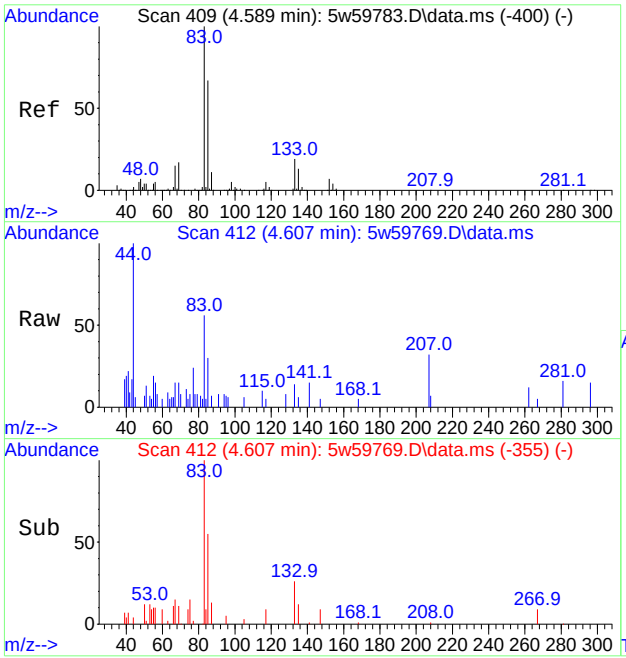


#18
ACROLEIN
Concen: 0.05 PPBV m
RT: 4.620 min Scan# 414
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 56 Resp: 728

Ion	Ratio	Lower	Upper
56	100		
55	401.2	46.6	86.6#

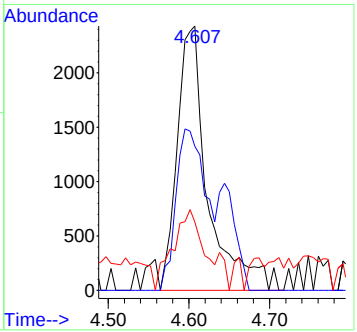


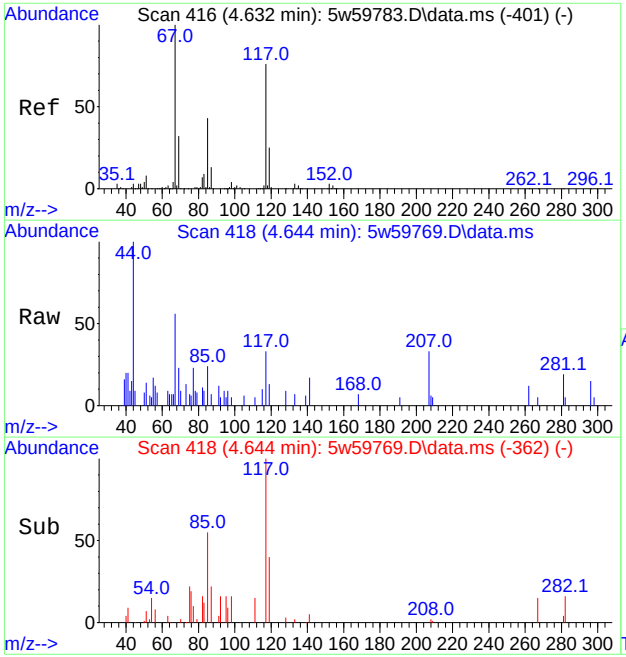


#19
FREON 123
Concen: 0.06 PPBV
RT: 4.607 min Scan# 412
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 6421

Ion	Ratio	Lower	Upper
83	100		
85	82.3	34.0	94.0
133	33.3	0.0	50.7

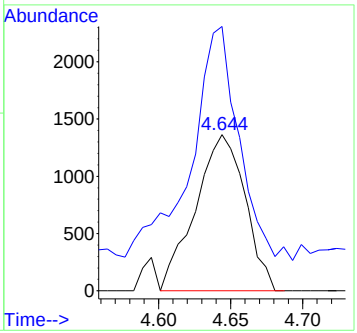


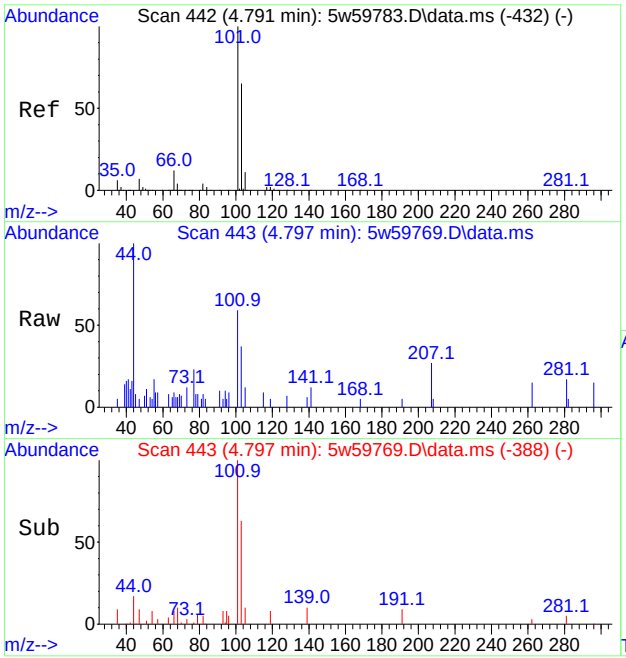


#20
FREON 123A
Concen: 0.05 PPBV
RT: 4.644 min Scan# 418
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 3274

Ion	Ratio	Lower	Upper
117	100		
67	146.4	114.6	174.6

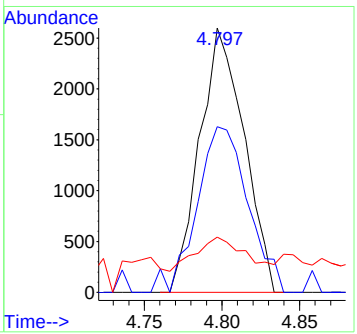


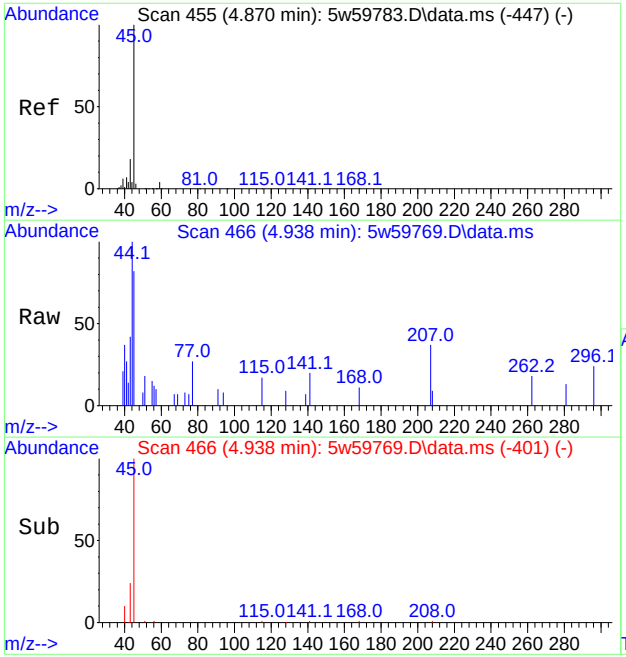


#21
TRICHLOROFLUOROMETHANE
Concen: 0.05 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:101 Resp: 5153

Ion	Ratio	Lower	Upper
101	100		
103	72.3	35.0	95.0
105	51.3	0.0	40.7#

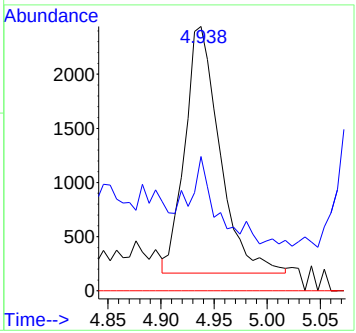


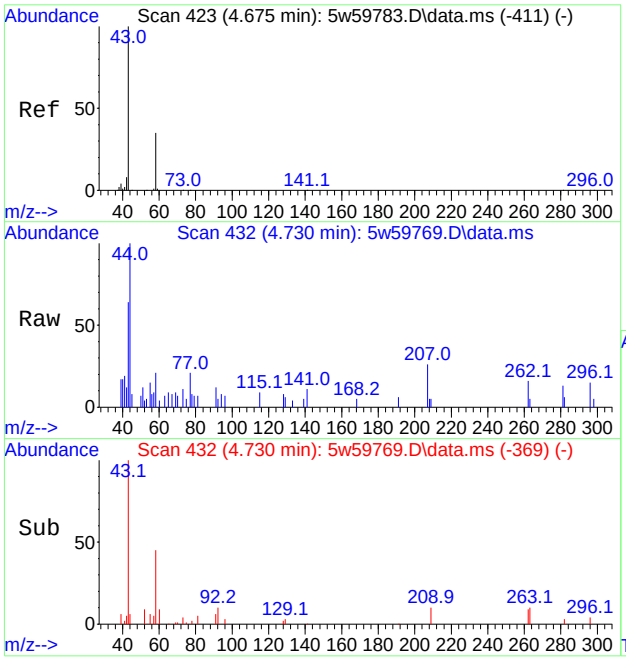


#22
ISOPROPYL ALCOHOL
Concen: 0.06 PPBV m
RT: 4.938 min Scan# 466
Delta R.T. 0.068 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 45 Resp: 5219

Ion	Ratio	Lower	Upper
45	100		
43	50.8	0.0	47.8#
59	0.0	0.0	34.1

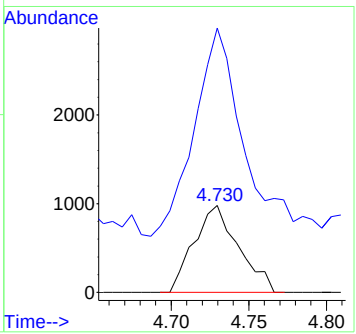


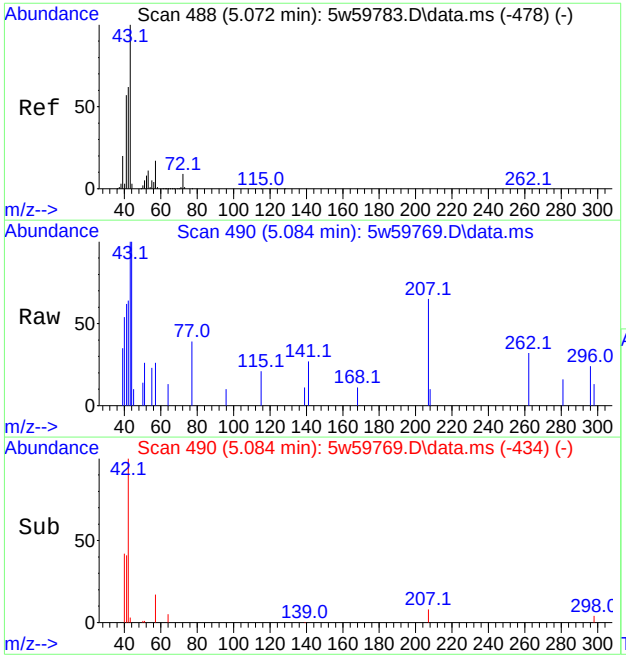


#23
ACETONE
Concen: 0.11 PPBV
RT: 4.730 min Scan# 432
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 58 Resp: 1951

Ion	Ratio	Lower	Upper
58	100		
43	292.5	252.3	312.3

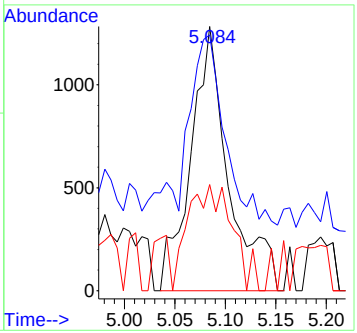


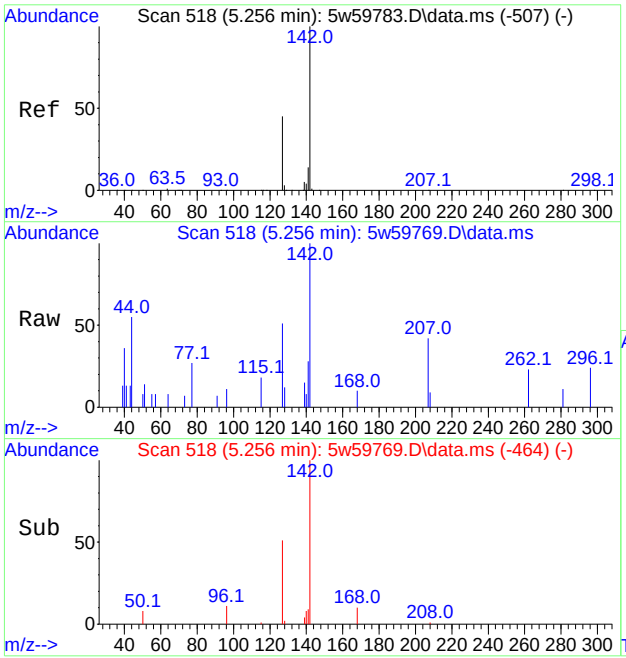


#24
PENTANE
Concen: 0.08 PPBV
RT: 5.084 min Scan# 490
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 42 Resp: 3370

Ion	Ratio	Lower	Upper
42	100		
41	72.5	62.3	122.3
57	46.9	0.0	57.7

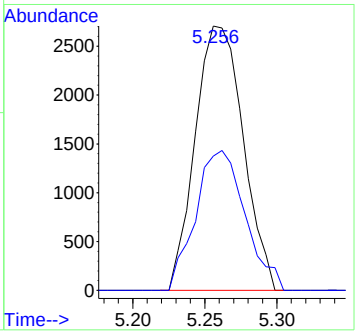


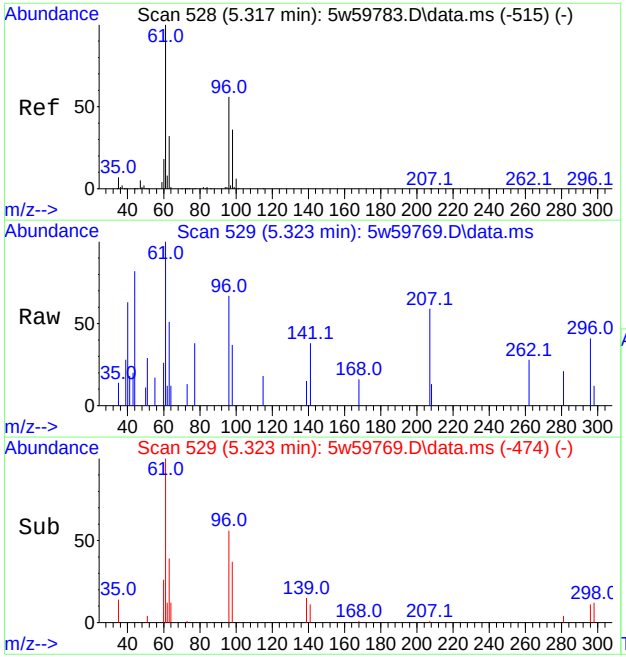


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:142 Resp: 6273

Ion	Ratio	Lower	Upper
142	100		
127	54.7	16.0	76.0

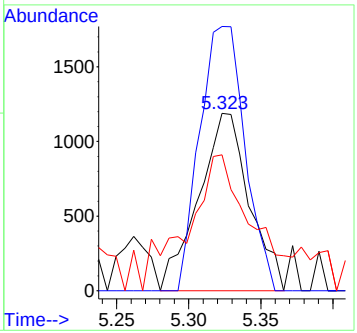


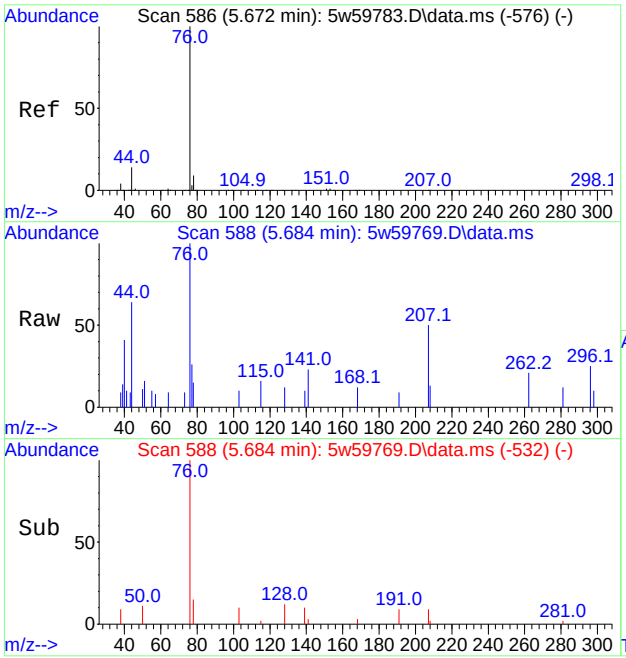


#26
1,1-DICHLOROETHYLENE
Concen: 0.06 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2915

Ion	Ratio	Lower	Upper
96	100		
61	132.6	148.5	208.5#
63	110.9	27.4	87.4#

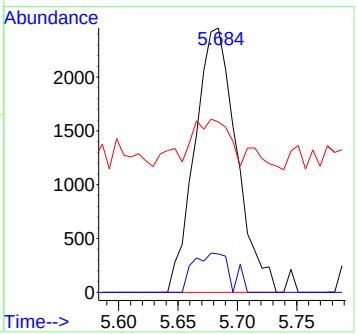


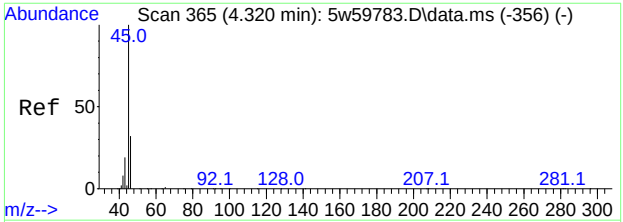


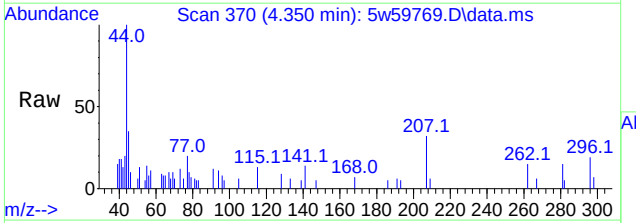
#27
CARBON DISULFIDE
Concen: 0.05 PPBV
RT: 5.684 min Scan# 588
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

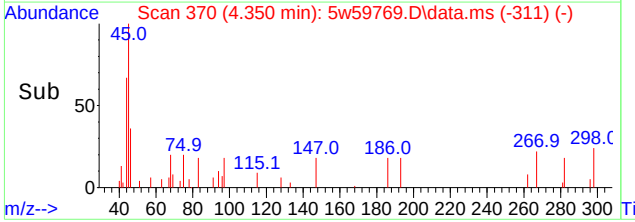
Tgt Ion: 76 Resp: 5982

Ion	Ratio	Lower	Upper
76	100		
78	13.3	0.0	41.5
44	20.2	0.0	44.6





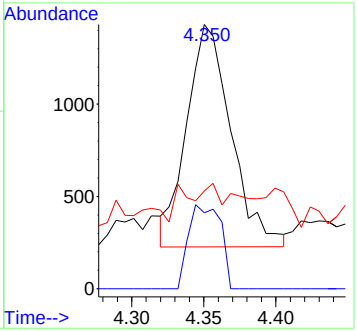


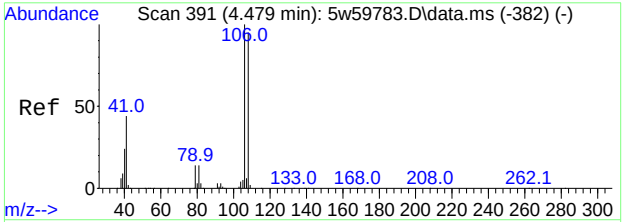


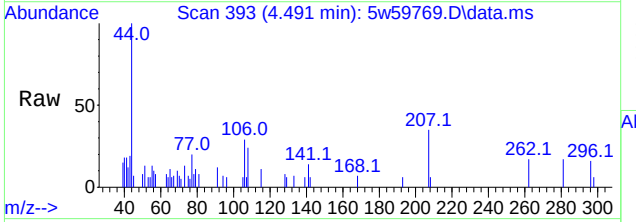
#28
ETHANOL
Concen: 0.17 PPBV
RT: 4.350 min Scan# 370
Delta R.T. 0.030 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

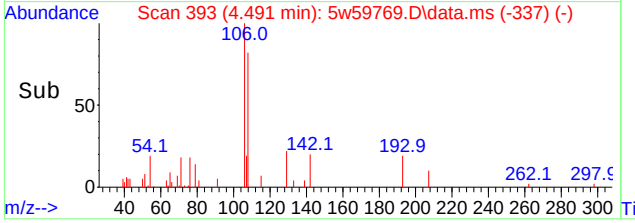
Tgt Ion: 45 Resp: 2592

Ion	Ratio	Lower	Upper
45	100		
46	27.1	2.0	62.0
42	34.5	0.0	38.5





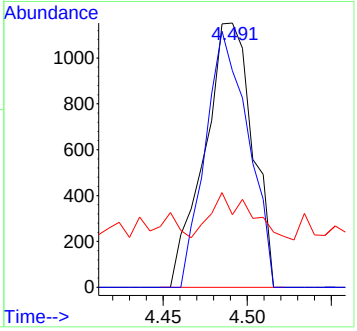


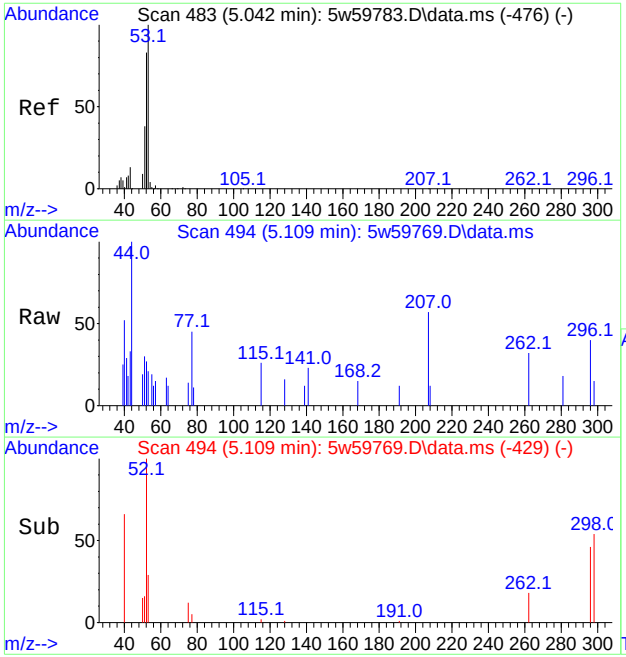


#29
BROMOETHENE
Concen: 0.05 PPBV
RT: 4.491 min Scan# 393
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 2283

Ion	Ratio	Lower	Upper
106	100		
108	86.8	65.6	125.6
81	103.9	0.0	43.9#

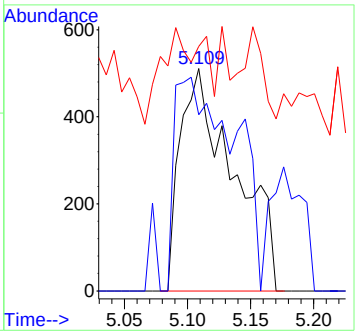


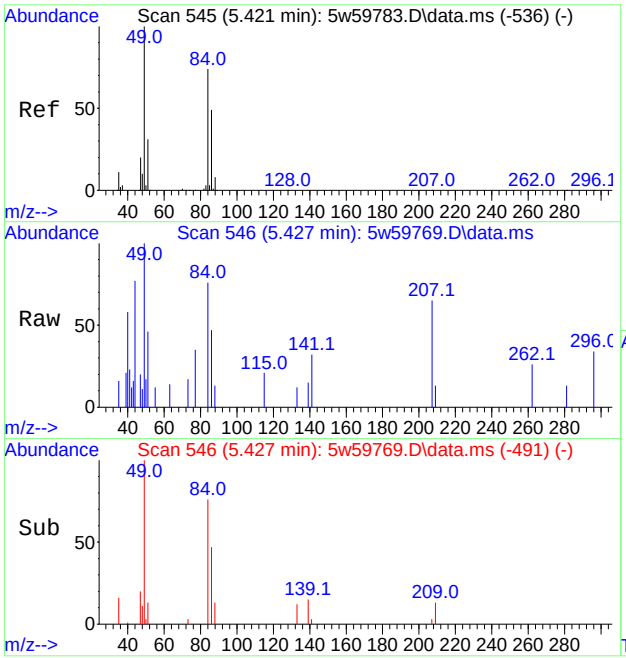


#30
ACRYLONITRILE
Concen: 0.05 PPBV
RT: 5.109 min Scan# 494
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 52 Resp: 1514

Ion	Ratio	Lower	Upper
52	100		
53	107.2	85.8	159.4
51	0.0	32.3	60.1#

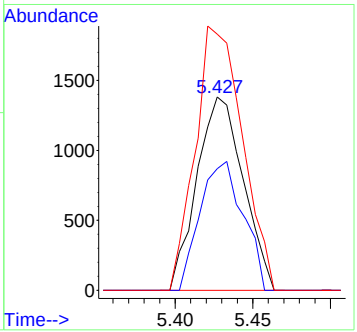


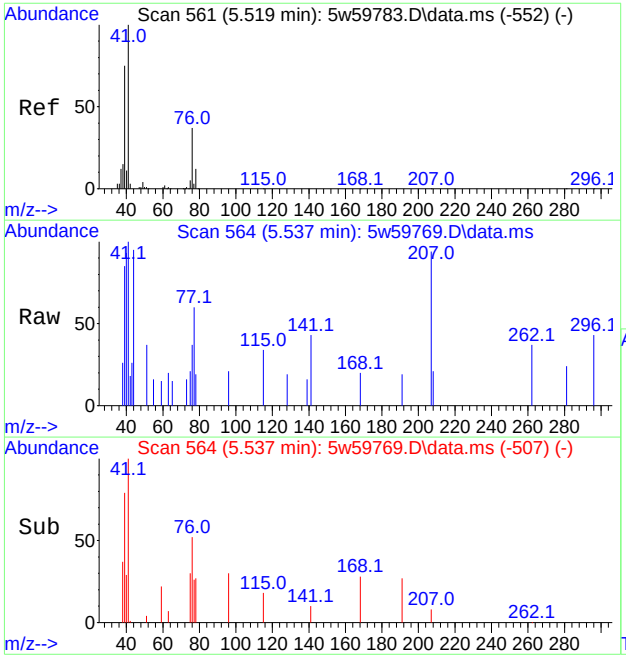


#31
METHYLENE CHLORIDE
Concen: 0.06 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2871

Ion	Ratio	Lower	Upper
84	100		
86	61.9	35.2	95.2
49	139.0	105.3	165.3

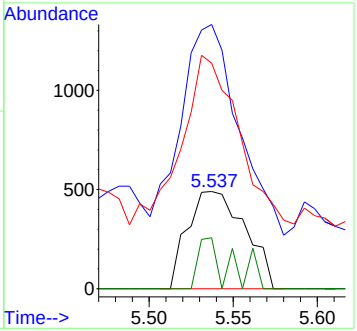


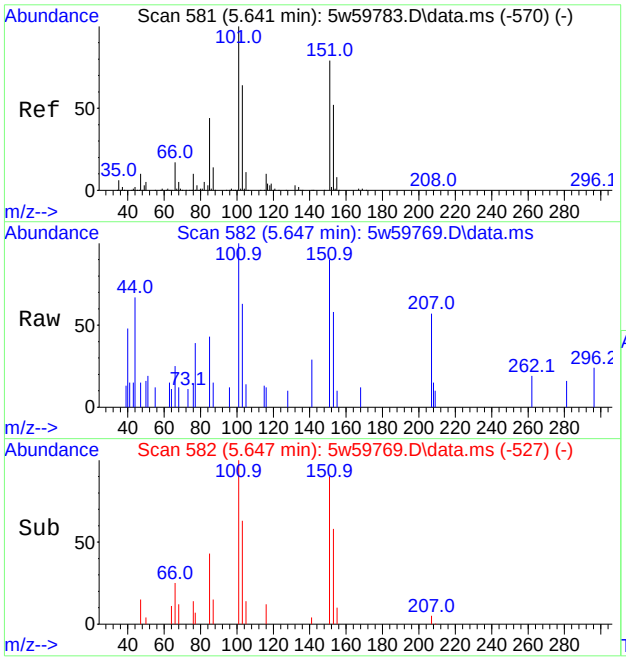


#32
3-CHLOROPROPENE
Concen: 0.05 PPBV
RT: 5.537 min Scan# 564
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 1170

Ion	Ratio	Lower	Upper
76	100		
41	199.4	240.8	300.8#
39	168.5	173.6	233.6#
78	15.9	2.8	62.8

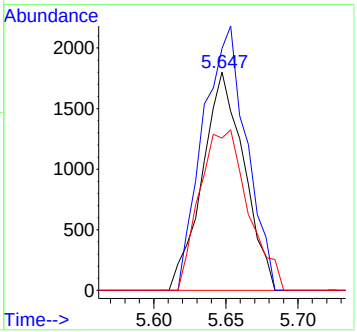


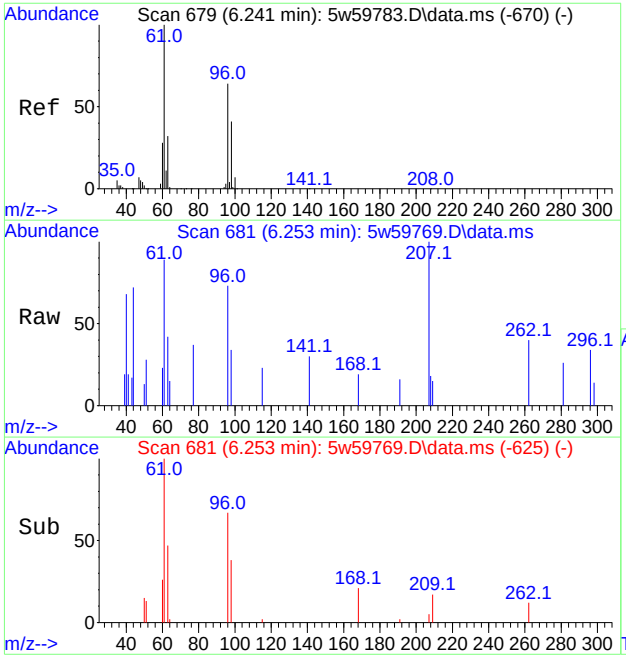


#33
FREON 113
Concen: 0.04 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:151 Resp: 3628

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	85.4	52.5	112.5

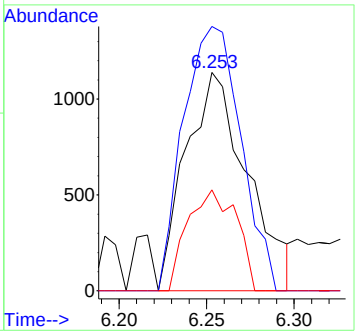


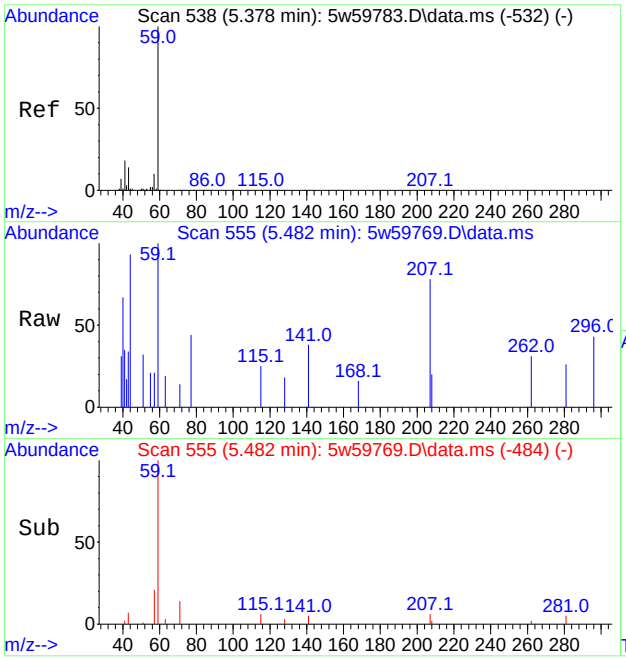


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.05 PPBV m
RT: 6.253 min Scan# 681
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 2781

Ion	Ratio	Lower	Upper
96	100		
61	113.3	126.4	186.4#
98	36.7	34.1	94.1

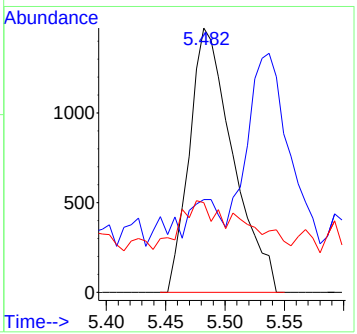


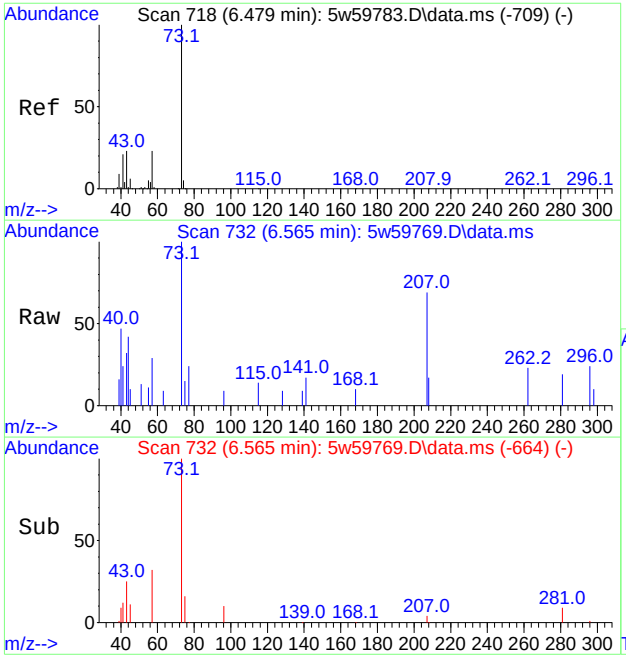


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.04 PPBV
RT: 5.482 min Scan# 555
Delta R.T. 0.104 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 3750

Ion	Ratio	Lower	Upper
59	100		
41	11.0	0.0	49.3
43	25.6	0.0	44.1

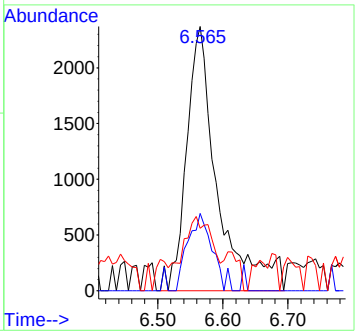


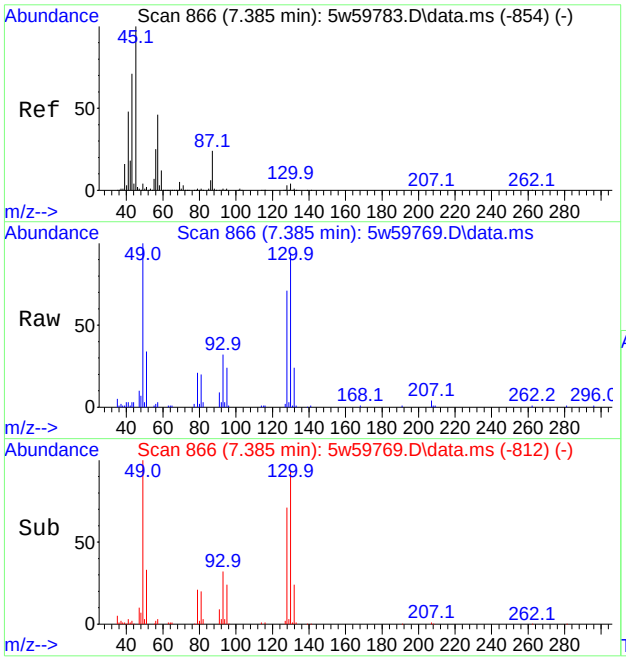


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.06 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.086 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 73 Resp: 7842

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	30.5	0.0	50.6

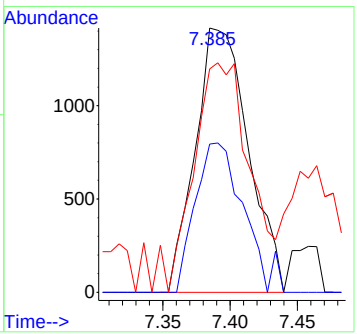


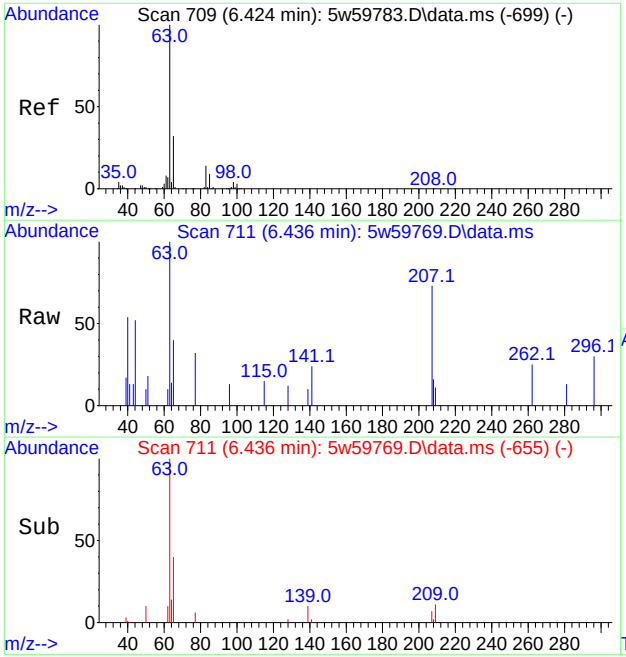


#38
HEXANE
Concen: 0.05 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 3894

Ion	Ratio	Lower	Upper
57	100		
56	51.6	25.9	85.9
41	90.7	74.7	134.7

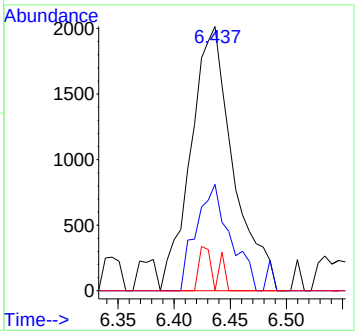


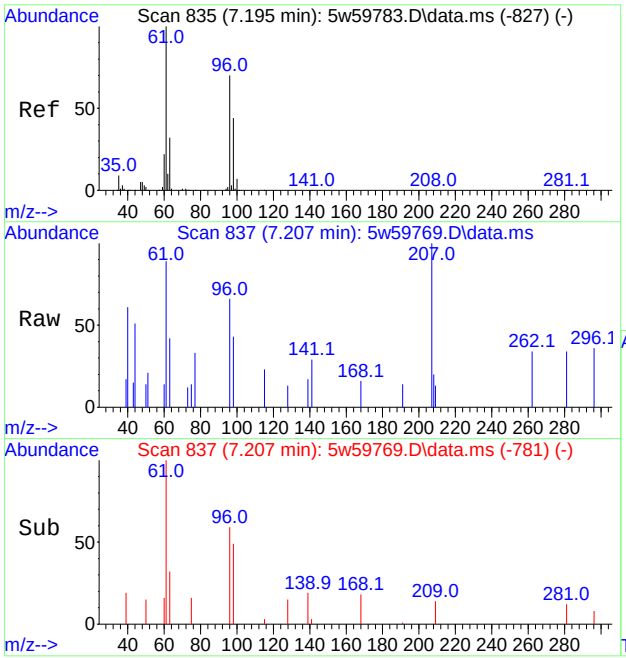


#40
1,1-DICHLOROETHANE
Concen: 0.06 PPBV
RT: 6.436 min Scan# 711
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 5305

Ion	Ratio	Lower	Upper
63	100		
65	32.5	1.7	61.7
83	6.6	0.0	43.5

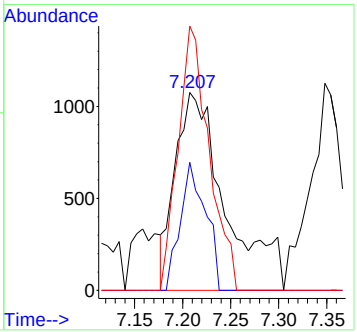


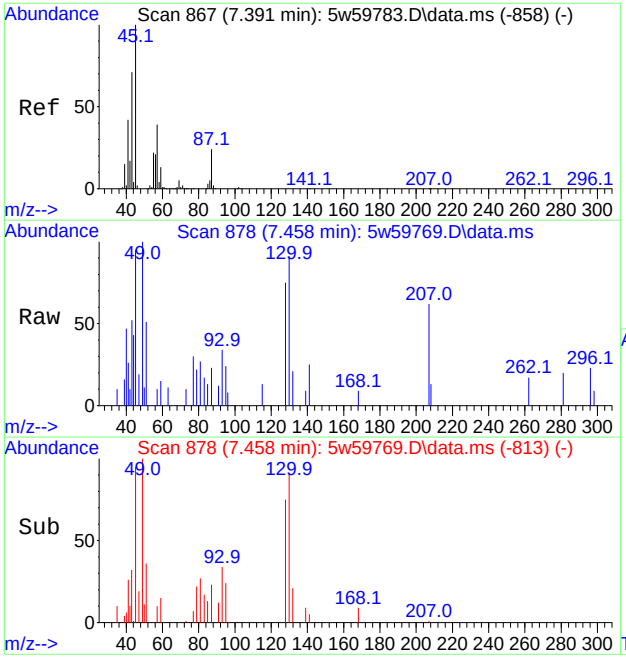


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.07 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 96 Resp: 3901

Ion	Ratio	Lower	Upper
96	100		
98	32.6	34.0	94.0#
61	82.7	111.5	171.5#

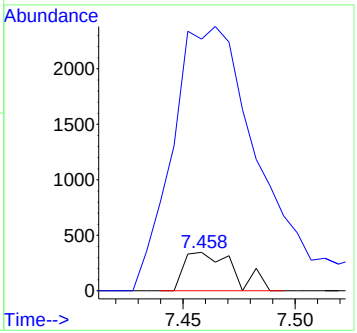


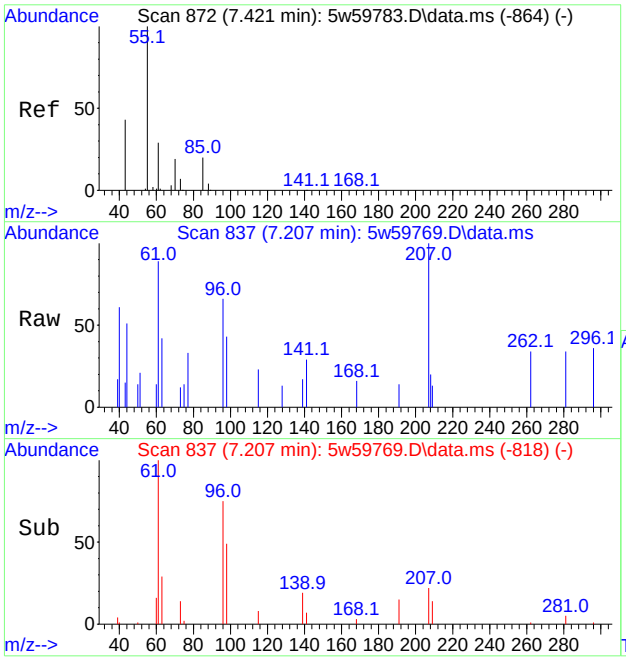


#43
DIISOPROPYL ETHER
Concen: 0.03 PPBV
RT: 7.458 min Scan# 878
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 59 Resp: 536

Ion	Ratio	Lower	Upper
59	100		
45	1232.1	720.9	780.9#

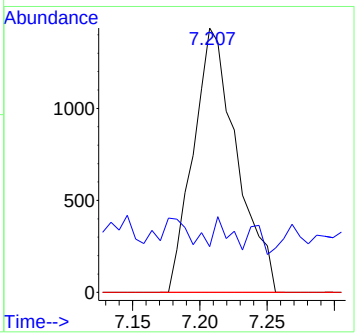


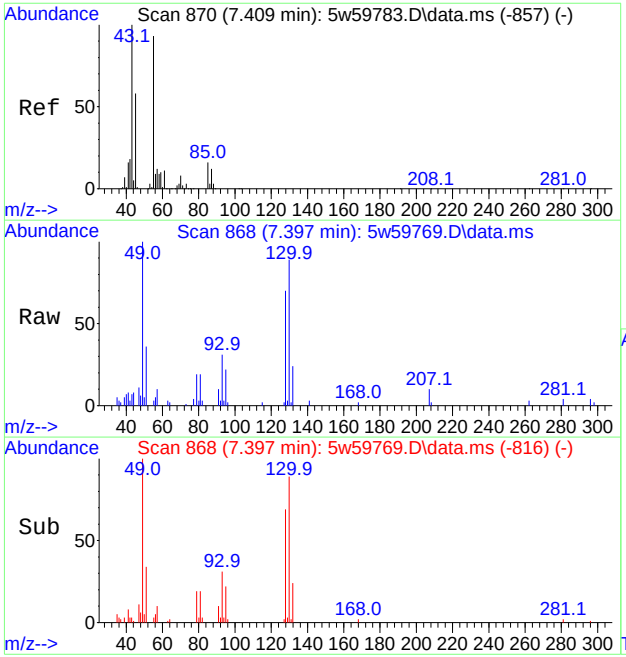


#44
ETHYL ACETATE
Concen: 0.23 PPBV
RT: 7.207 min Scan# 837
Delta R.T. -0.214 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 61 Resp: 3226

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	0.0	4.5	64.5#

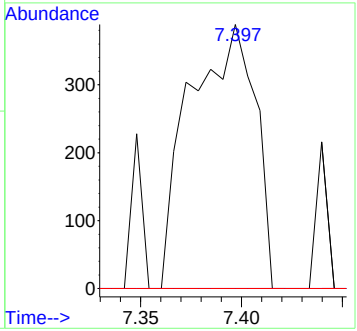


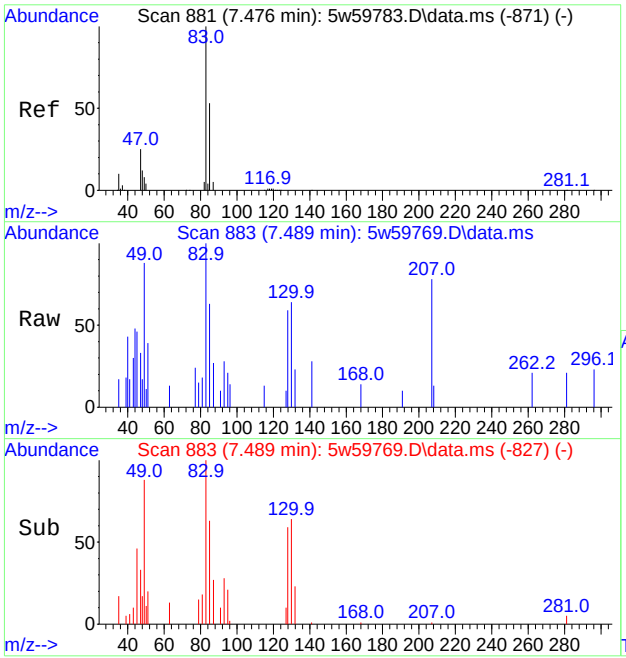


#45
METHYL ACRYLATE
Concen: 0.01 PPBV
RT: 7.397 min Scan# 868
Delta R.T. -0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 55 Resp: 878

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

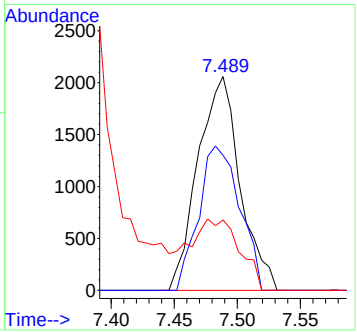


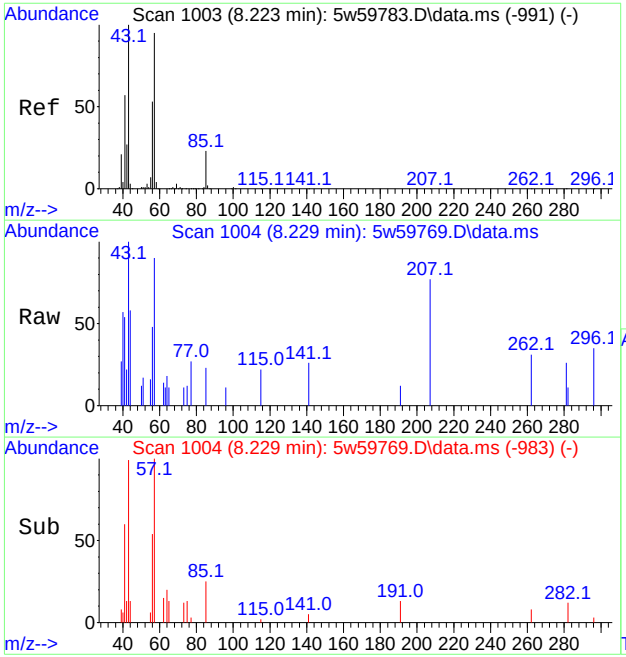


#46
CHLOROFORM
Concen: 0.05 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4783

Ion	Ratio	Lower	Upper
83	100		
85	65.9	35.6	95.6
47	0.0	0.0	55.2

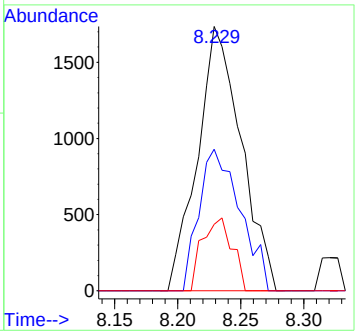


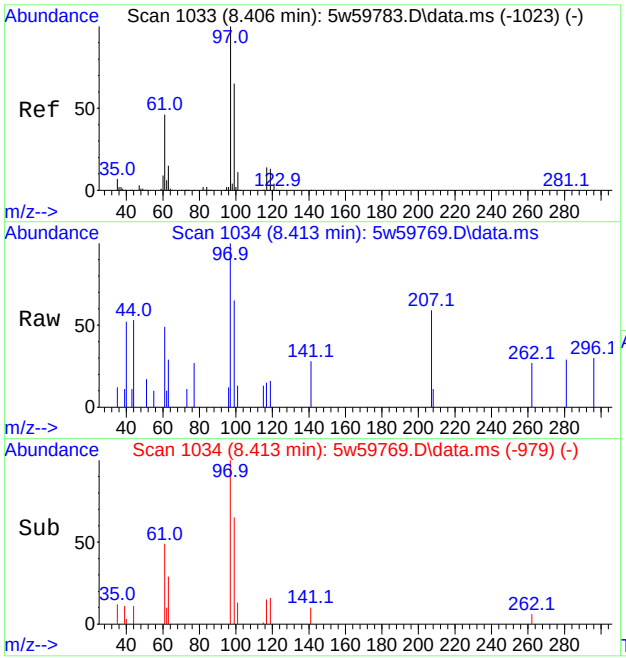


#47
2,4-DIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 4175

Ion	Ratio	Lower	Upper
57	100		
56	50.5	26.5	86.5
85	18.8	0.0	53.8

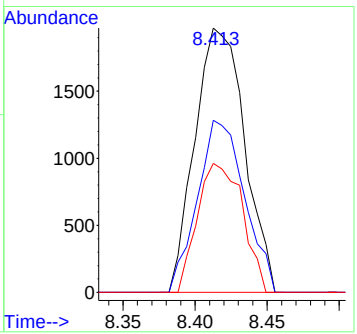


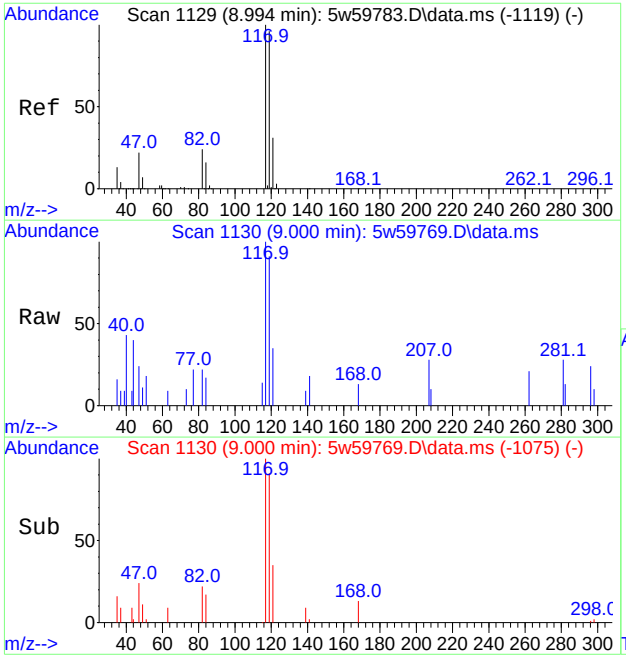


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 97 Resp: 4728

Ion	Ratio	Lower	Upper
97	100		
99	61.8	34.8	94.8
61	44.4	15.8	75.8

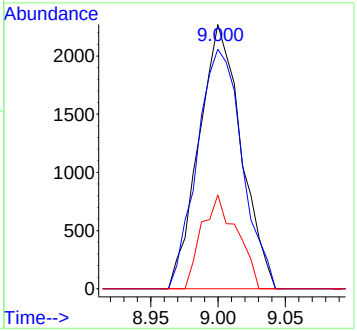


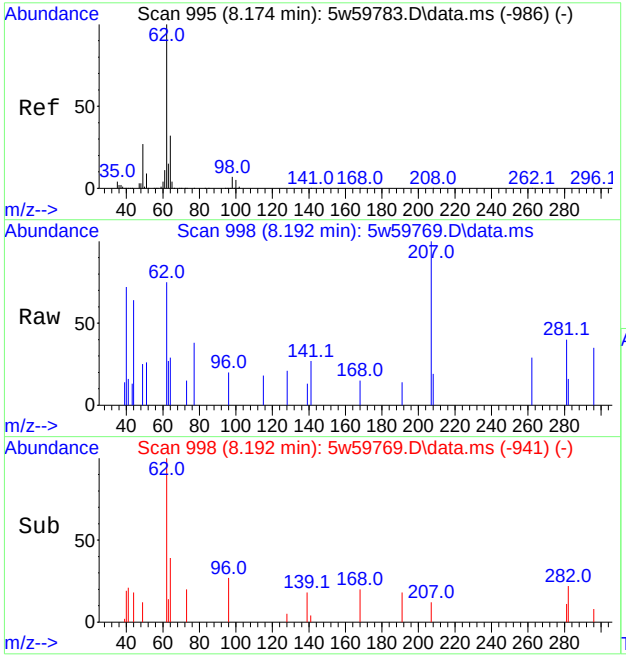


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4970

Ion	Ratio	Lower	Upper
117	100		
119	96.1	66.9	126.9
121	29.5	1.3	61.3

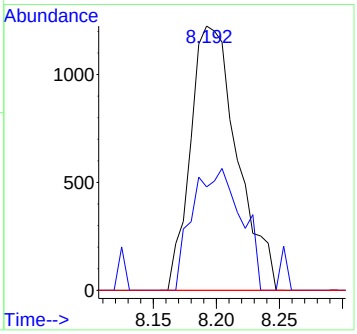


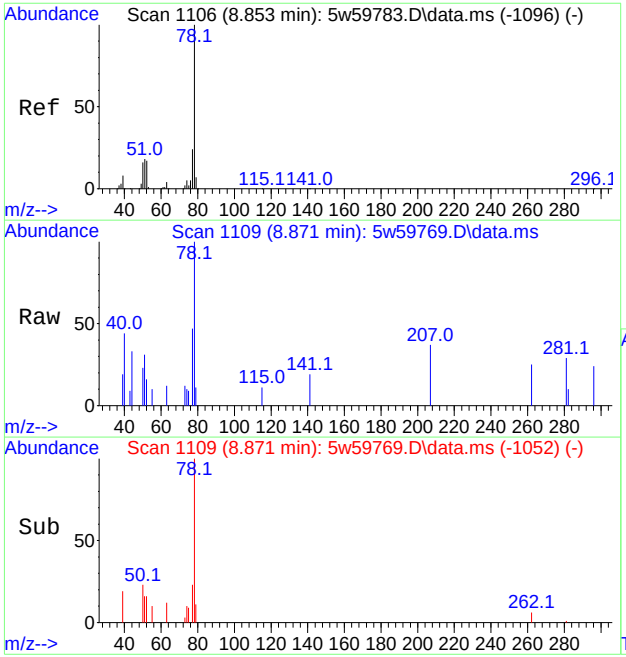


#50
1,2-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 8.192 min Scan# 998
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 62 Resp: 3147

Ion	Ratio	Lower	Upper
62	100		
64	48.3	2.3	62.3
98	0.0	0.0	36.9

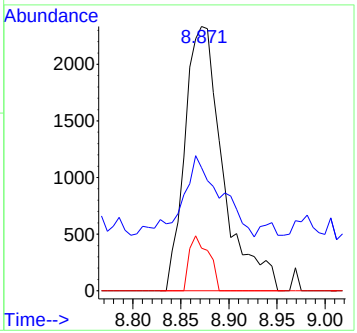


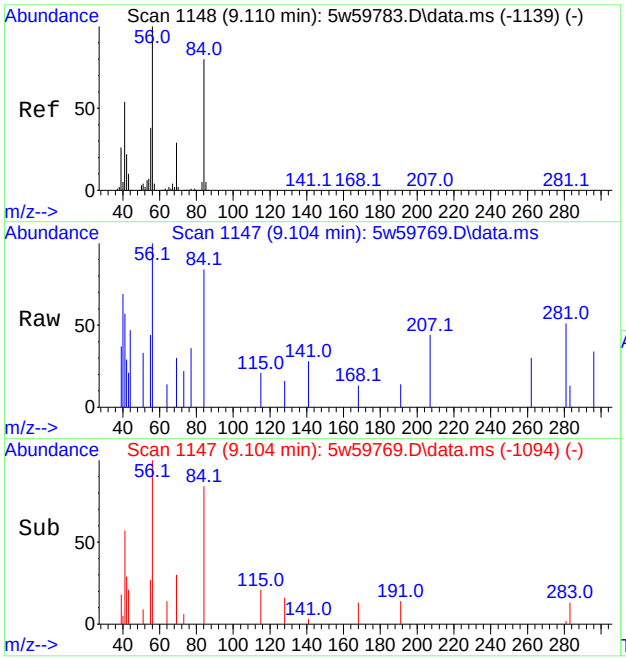


#52
BENZENE
Concen: 0.05 PPBV
RT: 8.871 min Scan# 1109
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 78 Resp: 6471

Ion	Ratio	Lower	Upper
78	100		
77	31.7	0.0	53.8
52	10.6	0.0	46.9

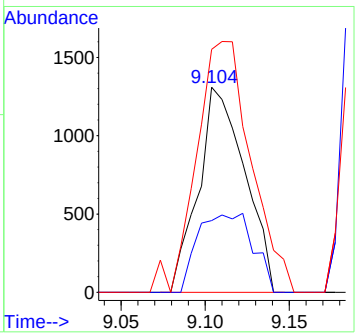


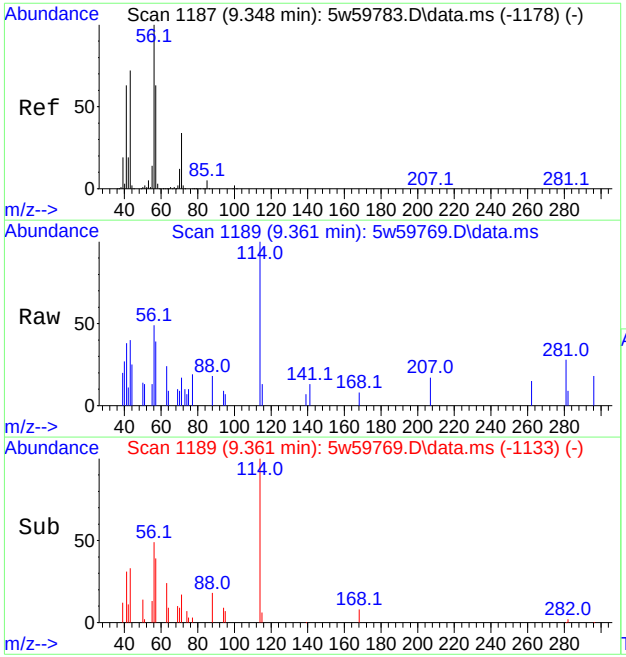


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 84 Resp: 2517

Ion	Ratio	Lower	Upper
84	100		
69	45.4	6.9	66.9
56	143.8	98.2	158.2

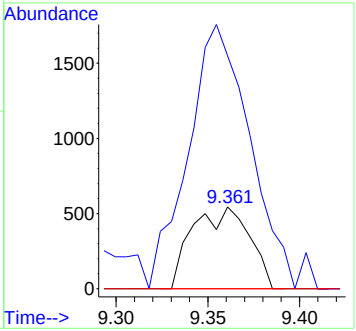


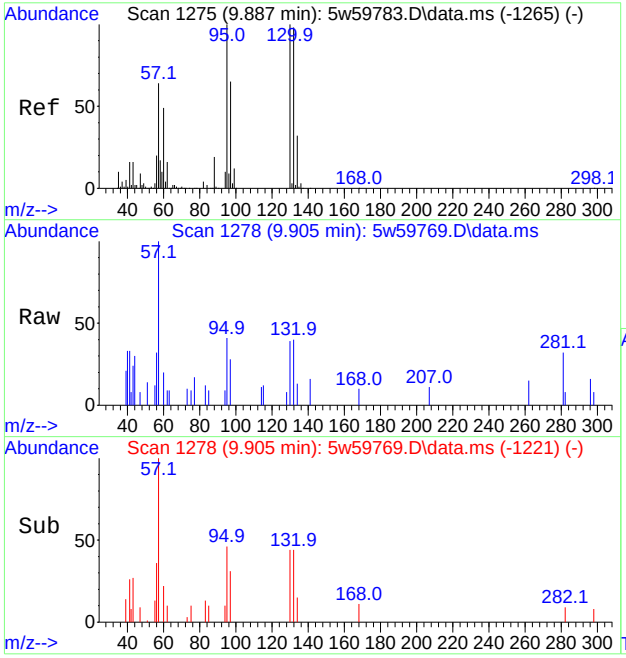


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 71 Resp: 1176

Ion	Ratio	Lower	Upper
71	100		
56	356.8	264.6	324.6#
85	0.0	0.0	45.3

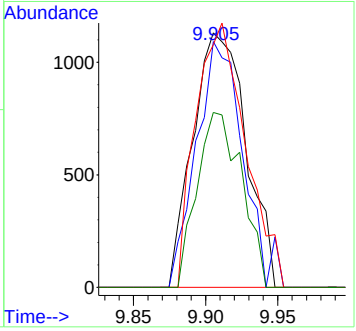


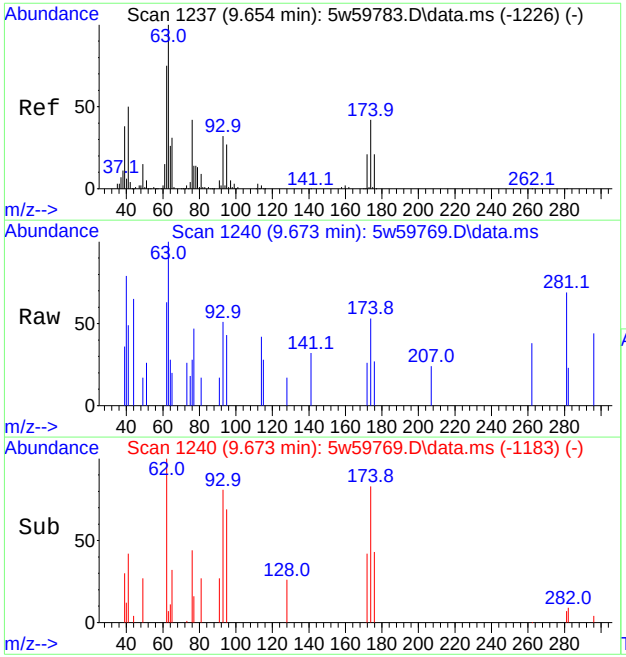


#55
TRICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 9.905 min Scan# 1278
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 95 Resp: 2913

Ion	Ratio	Lower	Upper
95	100		
132	84.8	69.0	129.0
130	97.2	70.6	130.6
97	57.5	34.6	94.6

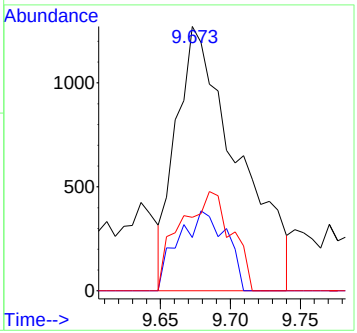


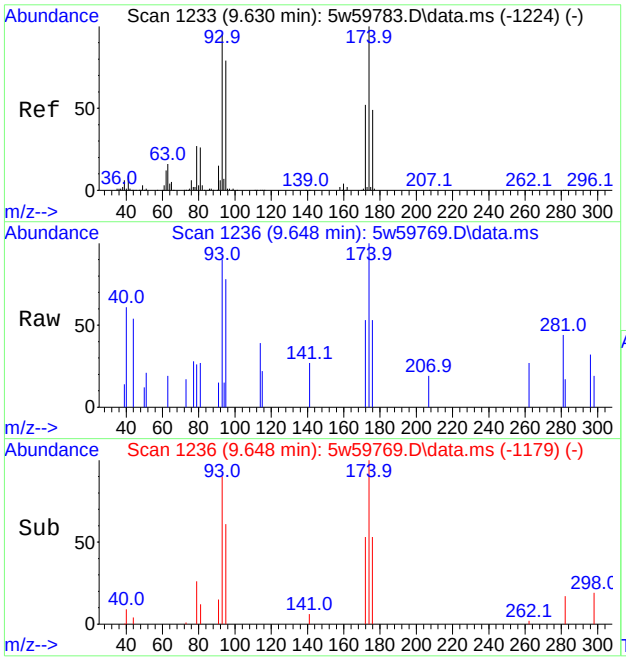


#56
1,2-DICHLOROPROPANE
Concen: 0.06 PPBV m
RT: 9.673 min Scan# 1240
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 63 Resp: 3887

Ion	Ratio	Lower	Upper
63	100		
65	23.5	0.5	60.5
76	31.3	11.5	71.5

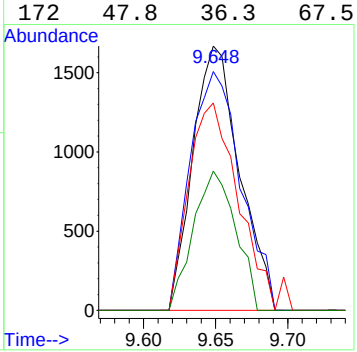


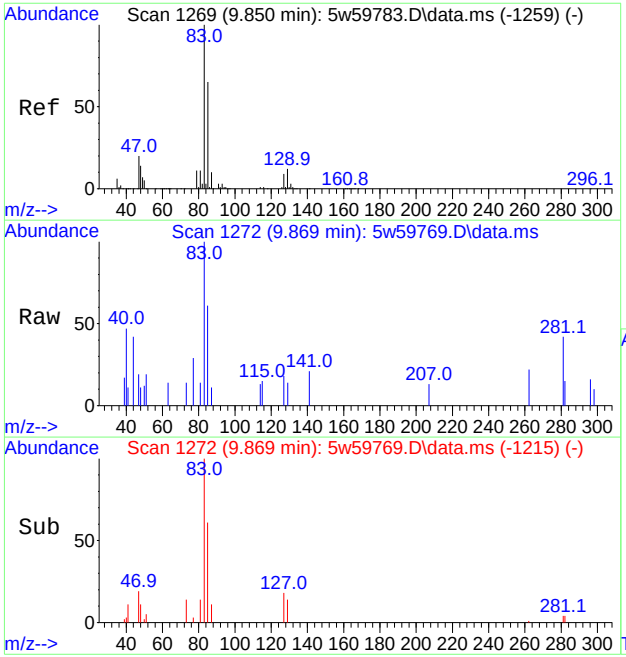


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:174 Resp: 3768

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	84.4	54.5	101.1
172	47.8	36.3	67.5

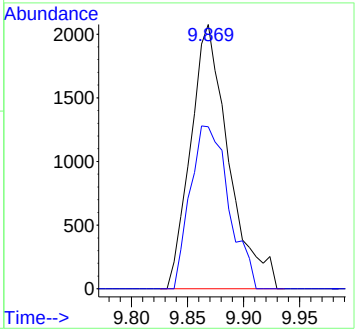


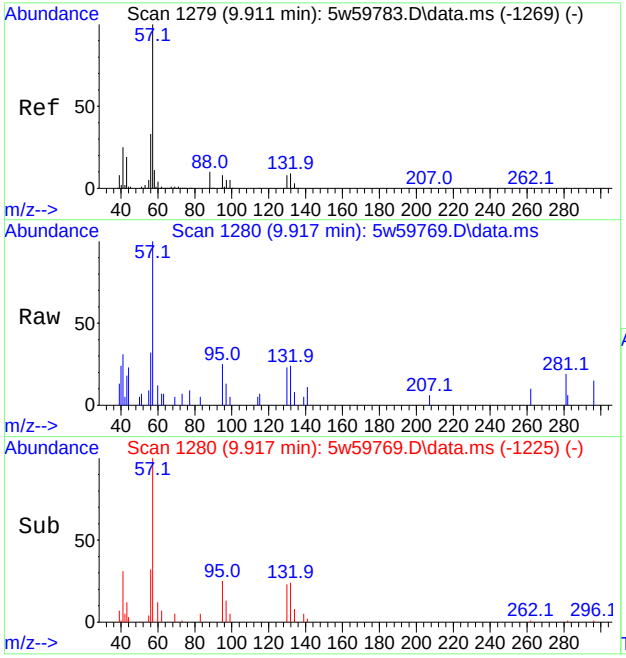


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 9.869 min Scan# 1272
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 4912

Ion	Ratio	Lower	Upper
83	100		
85	62.2	33.4	93.4

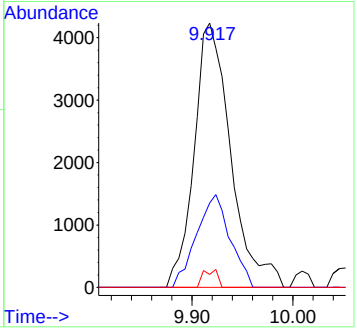


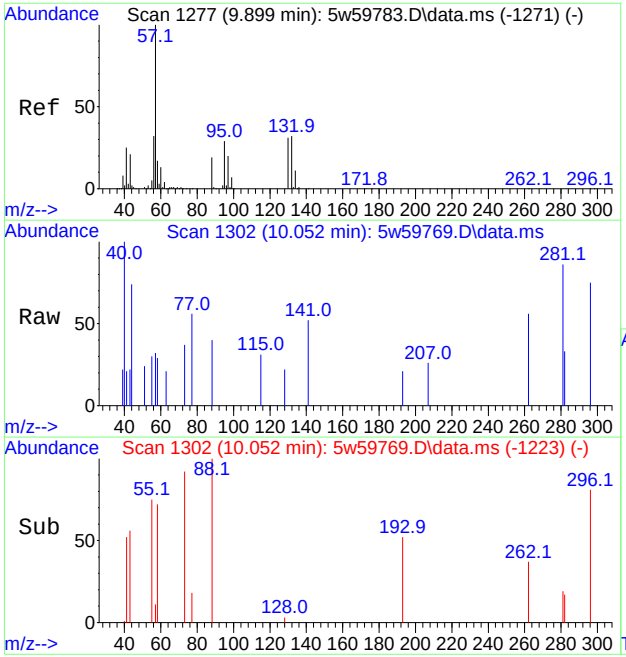


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 57 Resp: 10699

Ion	Ratio	Lower	Upper
57	100		
56	32.2	2.5	62.5
99	2.6	0.0	37.3

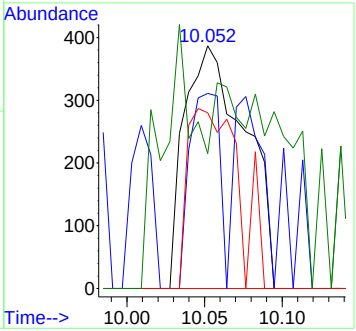


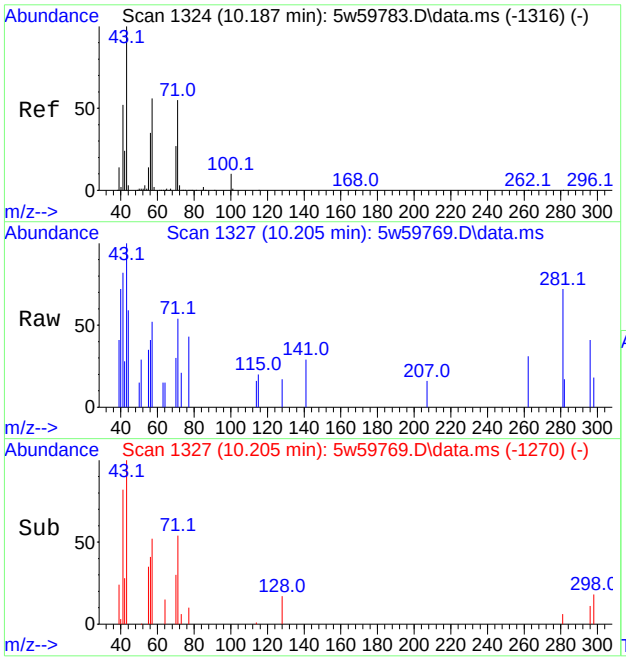


#61
1,4-DIOXANE
Concen: 0.03 PPBV
RT: 10.052 min Scan# 1302
Delta R.T. 0.153 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 88 Resp: 1059

Ion	Ratio	Lower	Upper
88	100		
57	80.4	494.2	554.2#
58	72.4	58.9	118.9
43	55.6	78.3	138.3#

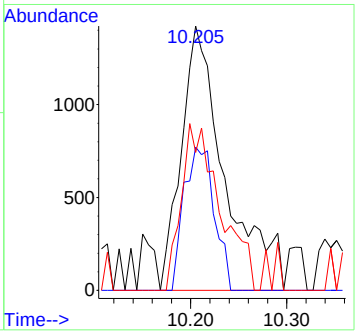


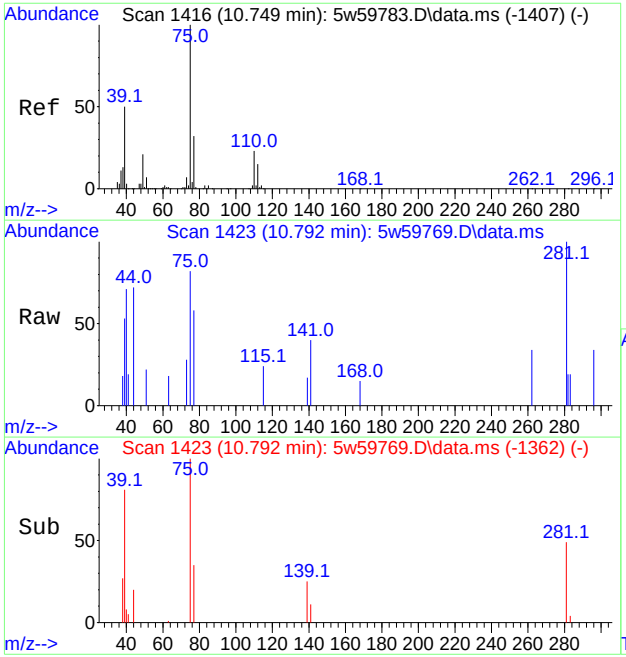


#62
HEPTANE
Concen: 0.06 PPBV
RT: 10.205 min Scan# 1327
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 4522

Ion	Ratio	Lower	Upper
43	100		
71	37.6	24.5	84.5
57	55.7	26.2	86.2

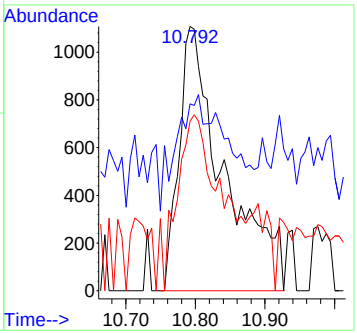


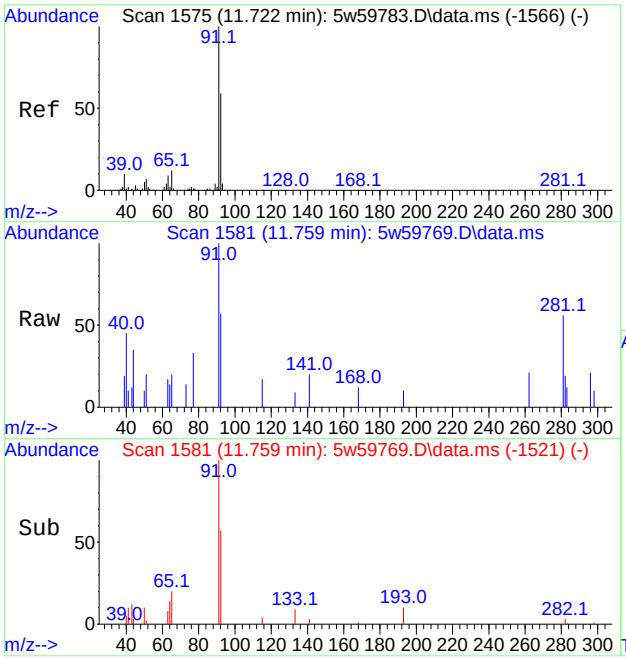


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4969

Ion	Ratio	Lower	Upper
75	100		
77	49.8	2.2	62.2
39	78.5	34.3	94.3

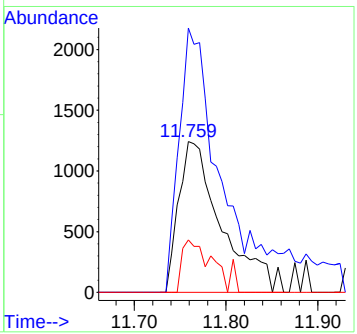


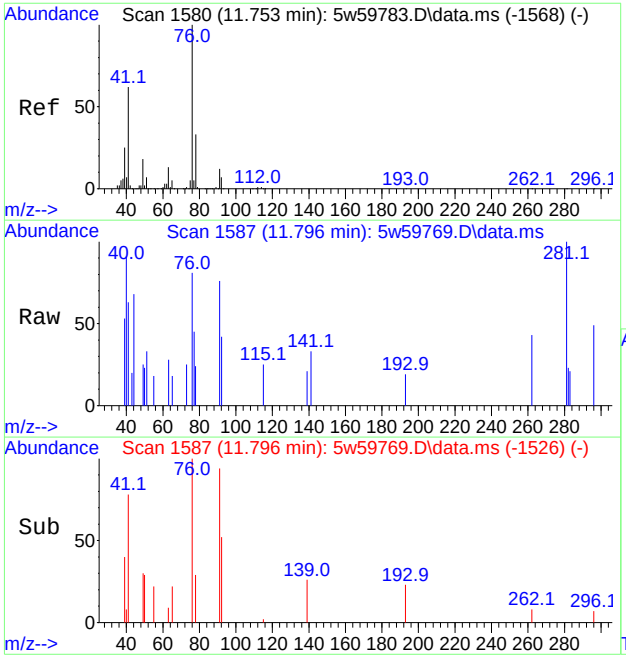


#66
TOLUENE
Concen: 0.04 PPBV
RT: 11.759 min Scan# 1581
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 92 Resp: 4059

Ion	Ratio	Lower	Upper
92	100		
91	195.5	140.1	200.1
65	22.8	0.0	53.1

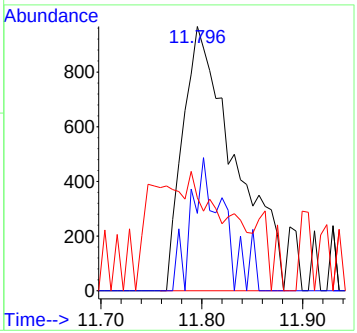


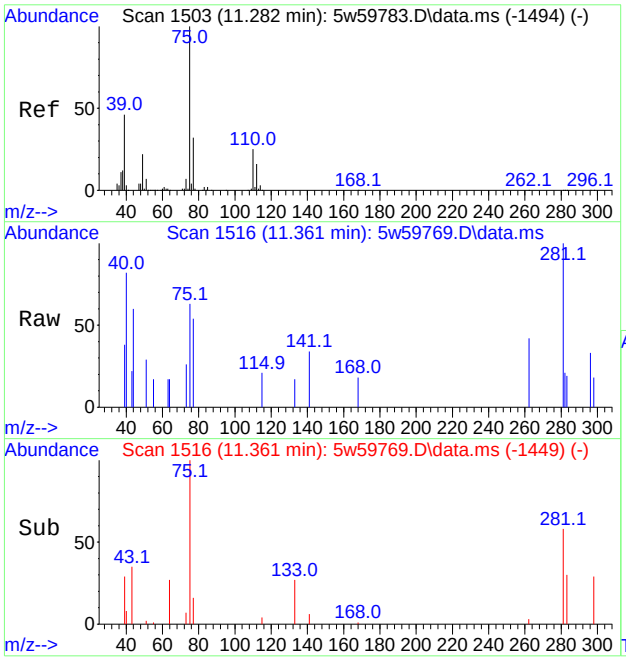


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 11.796 min Scan# 1587
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 76 Resp: 3478

Ion	Ratio	Lower	Upper
76	100		
78	27.2	23.2	43.0
63	71.6	7.1	13.1#

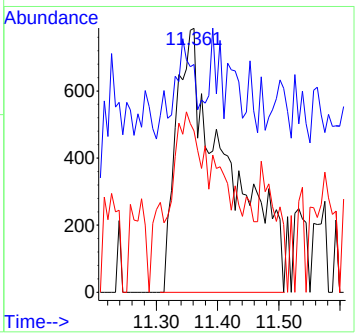


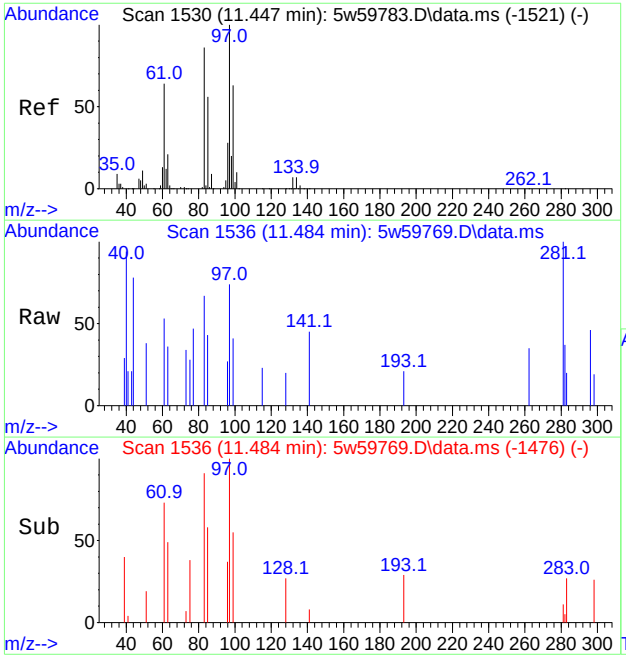


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.05 PPBV
RT: 11.361 min Scan# 1516
Delta R.T. 0.079 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 4586

Ion	Ratio	Lower	Upper
75	100		
77	16.9	1.6	61.6
39	35.7	16.1	76.1

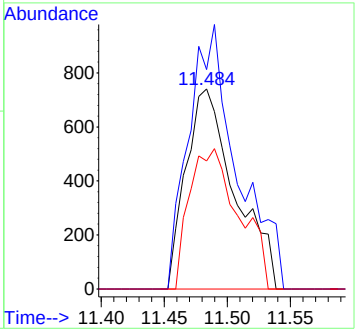


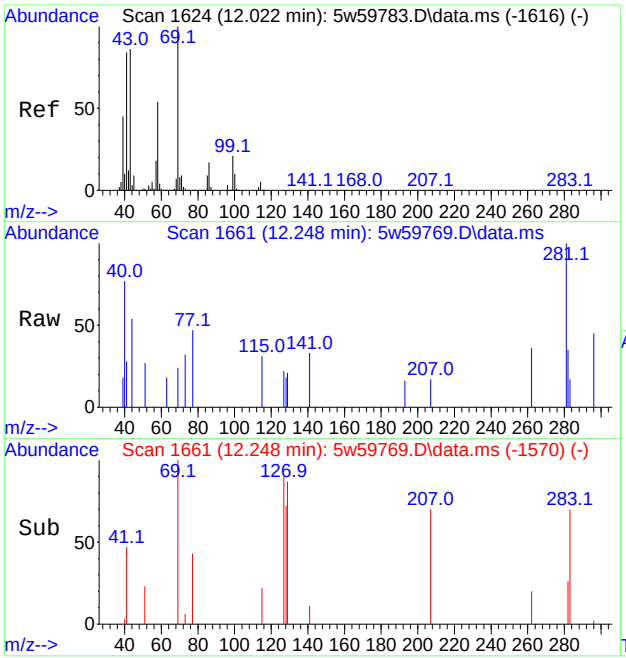


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 11.484 min Scan# 1536
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 2006

Ion	Ratio	Lower	Upper
83	100		
97	130.6	86.3	146.3
85	70.5	35.3	95.3

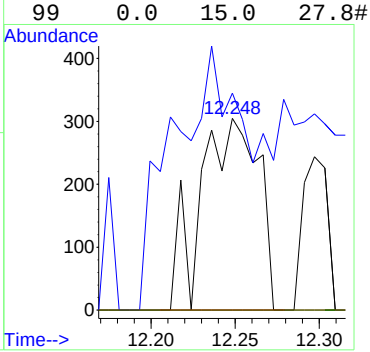


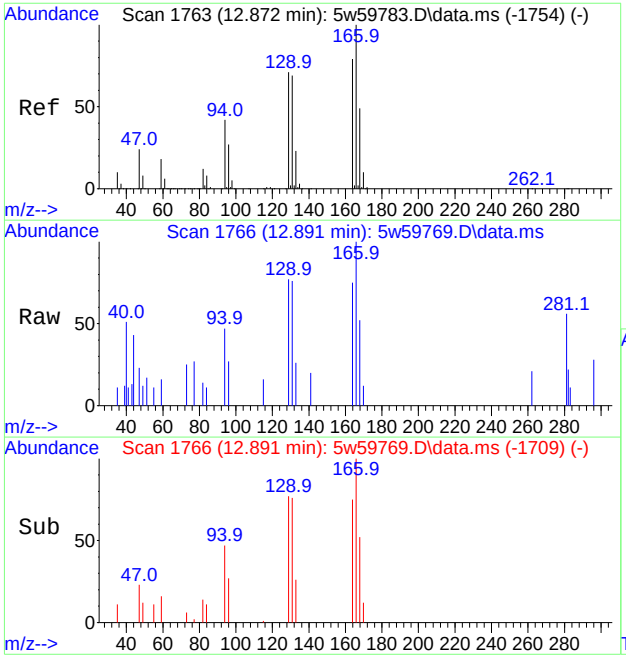


#72
ETHYL METHACRYLATE
Concen: 0.01 PPBV
RT: 12.248 min Scan# 1661
Delta R.T. 0.226 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 69 Resp: 735

Ion	Ratio	Lower	Upper
69	100		
41	291.7	64.0	119.0#
86	0.0	12.0	22.4#
99	0.0	15.0	27.8#

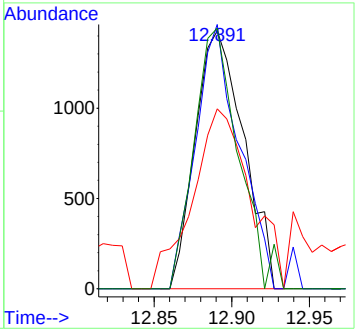


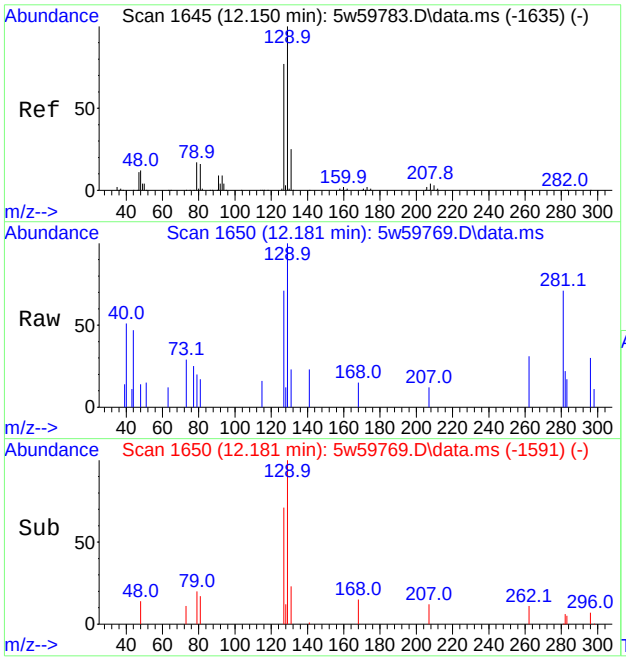


#73
TETRACHLOROETHYLENE
Concen: 0.04 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:164 Resp: 3089

Ion	Ratio	Lower	Upper
164	100		
129	93.4	59.7	119.7
168	83.4	32.2	92.2
131	92.9	57.8	117.8

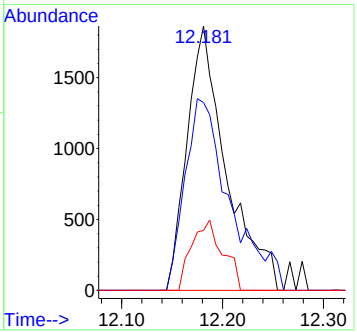


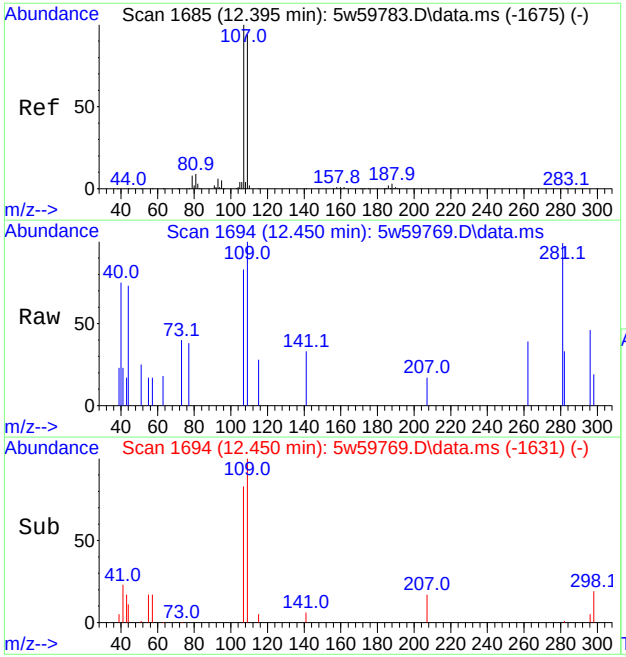


#74
DIBROMOCHLOROMETHANE
Concen: 0.04 PPBV
RT: 12.181 min Scan# 1650
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:129 Resp: 5067

Ion	Ratio	Lower	Upper
129	100		
127	82.7	47.1	107.1
131	21.0	0.0	54.5

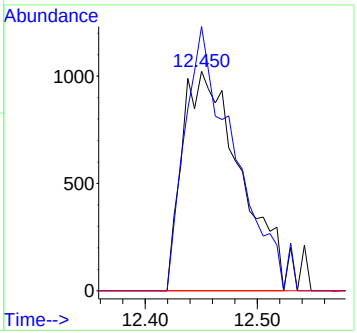


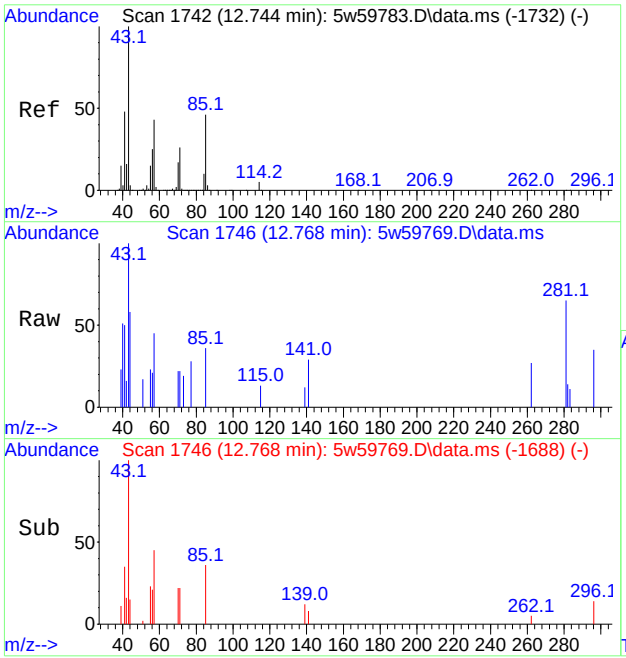


#75
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 12.450 min Scan# 1694
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:107 Resp: 3668

Ion	Ratio	Lower	Upper
107	100		
109	103.5	64.8	124.8
188	0.0	0.0	32.8

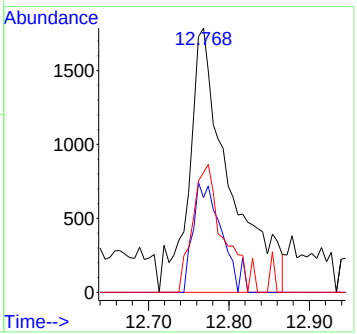


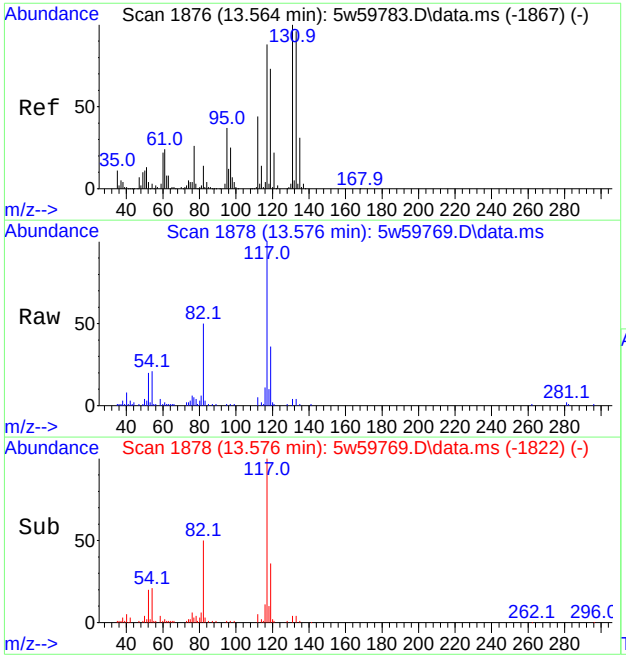


#76
OCTANE
Concen: 0.07 PPBV m
RT: 12.768 min Scan# 1746
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 6243

Ion	Ratio	Lower	Upper
43	100		
85	29.3	14.6	74.6
57	37.0	13.7	73.7

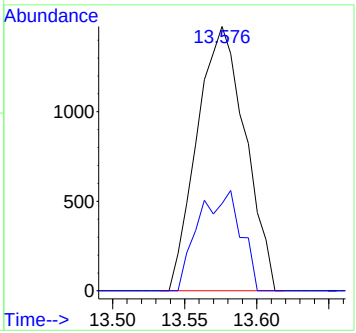


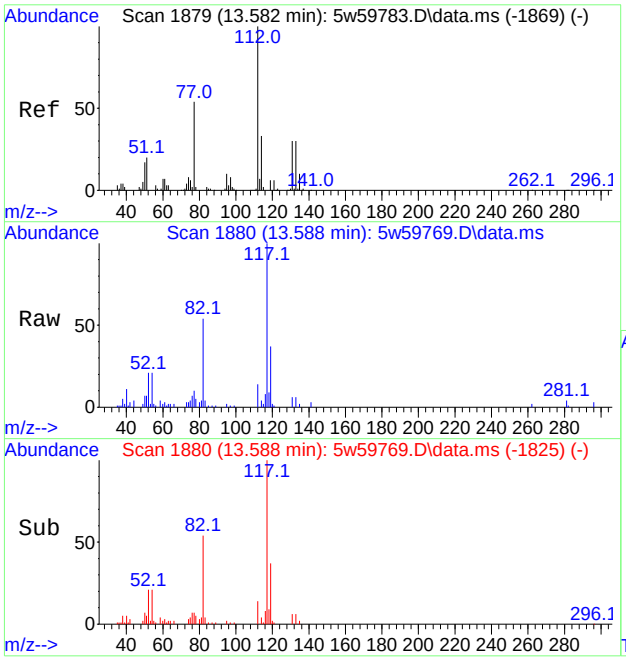


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:131 Resp: 3434

Ion	Ratio	Lower	Upper
131	100		
95	33.4	6.5	66.5

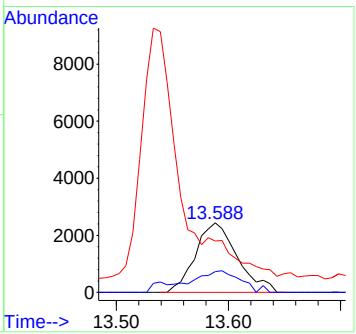


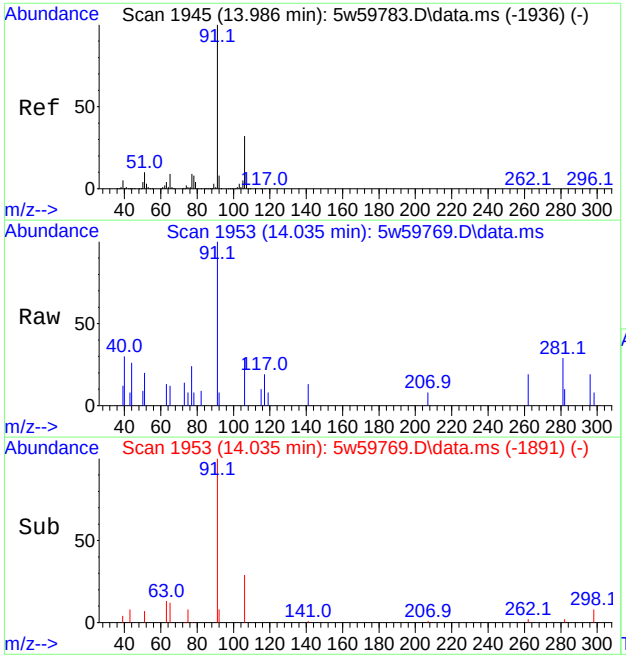


#78
CHLOROBENZENE
Concen: 0.05 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:112 Resp: 6320

Ion	Ratio	Lower	Upper
112	100		
114	30.4	2.6	62.6
77	0.0	25.4	85.4#

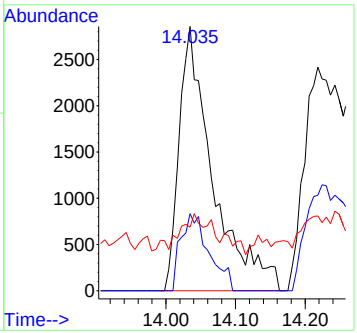


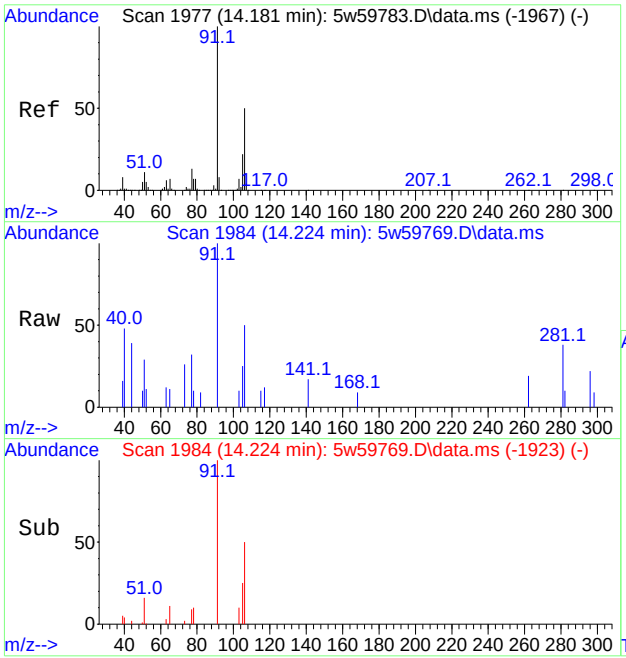


#79
ETHYLBENZENE
Concen: 0.05 PPBV
RT: 14.035 min Scan# 1953
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 9593

Ion	Ratio	Lower	Upper
91	100		
106	24.4	1.3	61.3
77	16.4	0.0	38.6

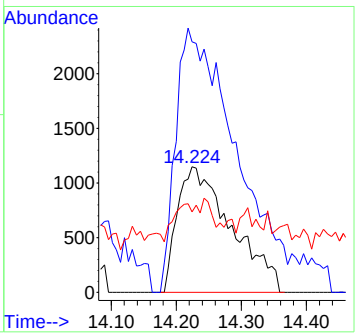


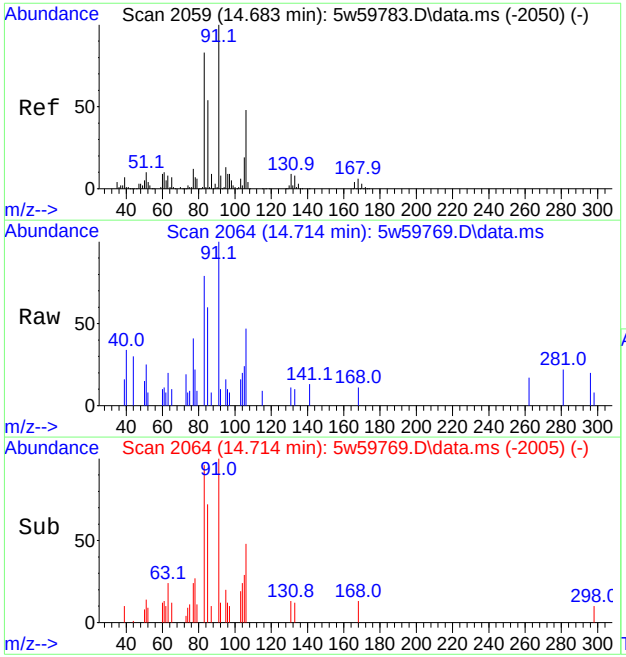


#80
m,p-XYLENE
Concen: 0.08 PPBV
RT: 14.224 min Scan# 1984
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 6608

Ion	Ratio	Lower	Upper
106	100		
91	199.7	171.0	231.0
77	64.2	0.0	56.7#

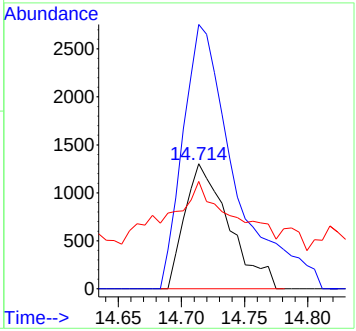


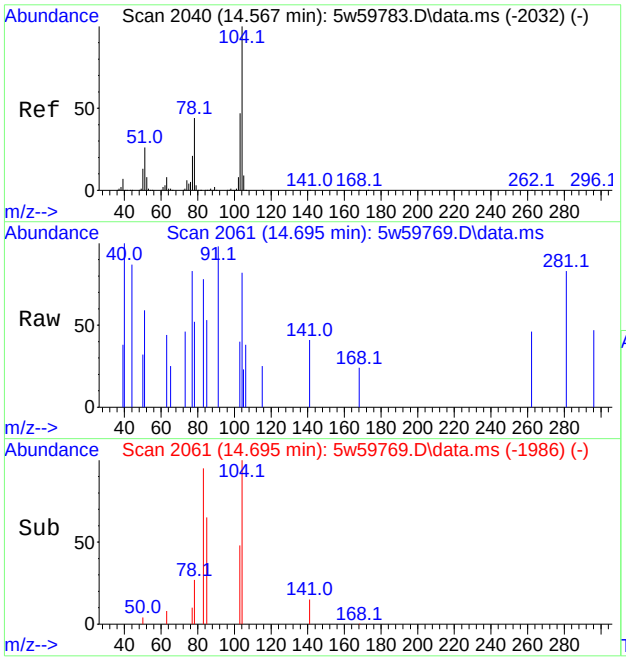


#81
o-XYLENE
Concen: 0.04 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:106 Resp: 3154

Ion	Ratio	Lower	Upper
106	100		
91	249.6	181.6	241.6#
77	92.1	0.0	56.6#

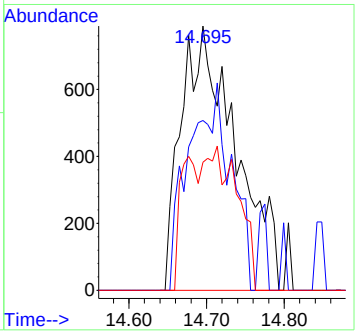


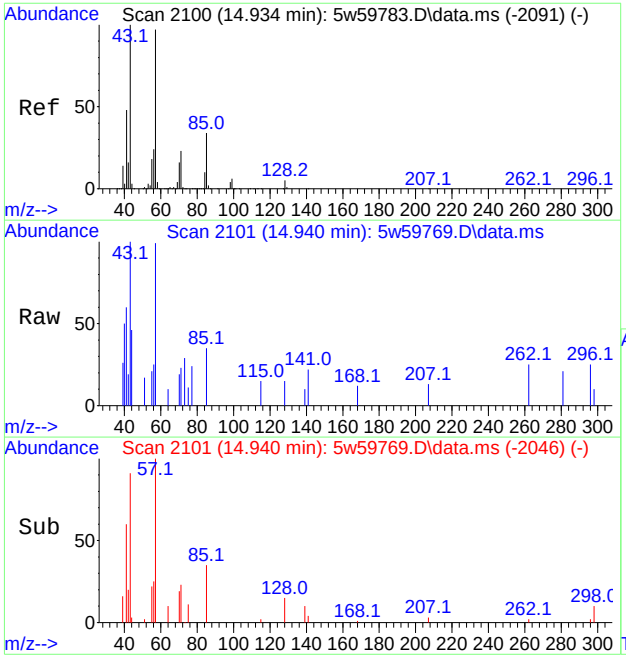


#82
STYRENE
Concen: 0.03 PPBV
RT: 14.695 min Scan# 2061
Delta R.T. 0.128 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:104 Resp: 3881

Ion	Ratio	Lower	Upper
104	100		
78	60.7	13.3	73.3
103	51.1	17.2	77.2

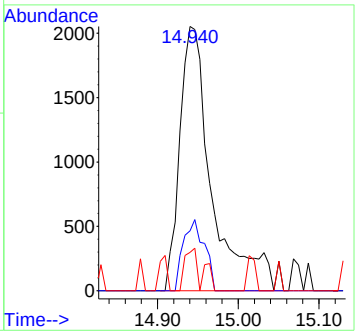


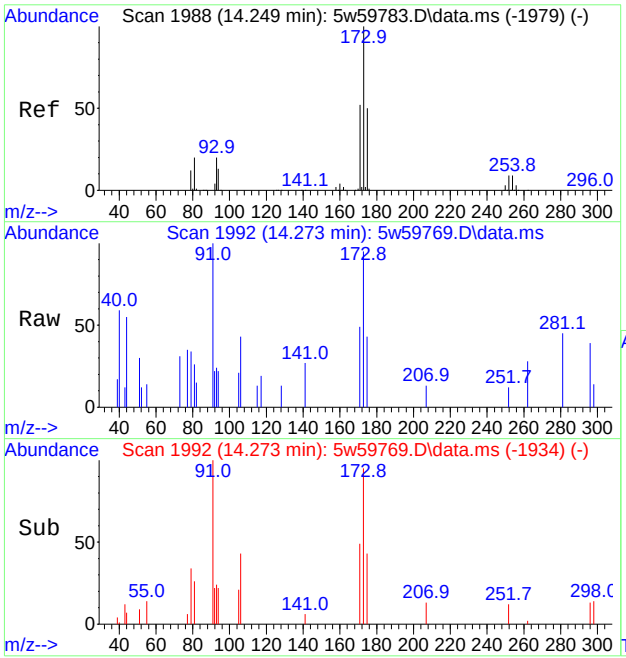


#83
NONANE
Concen: 0.06 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 43 Resp: 5771

Ion	Ratio	Lower	Upper
43	100		
71	17.4	0.0	52.7
128	5.8	0.0	34.7

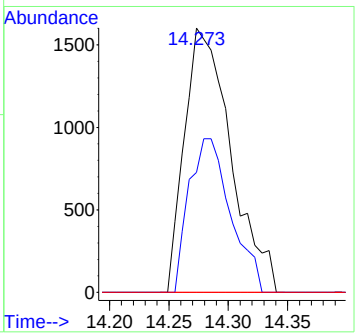


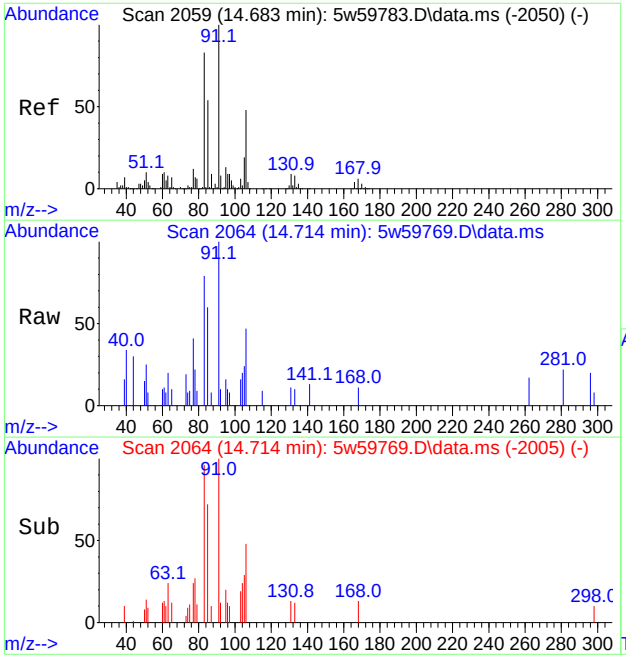


#84
BROMOFORM
Concen: 0.04 PPBV
RT: 14.273 min Scan# 1992
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:173 Resp: 4371

Ion	Ratio	Lower	Upper
173	100		
175	52.0	19.6	79.6
254	0.0	0.0	39.0

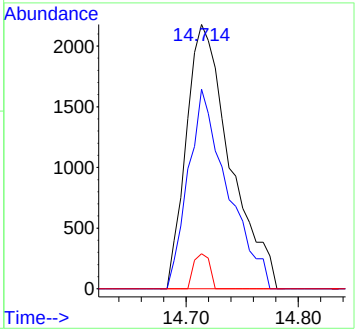


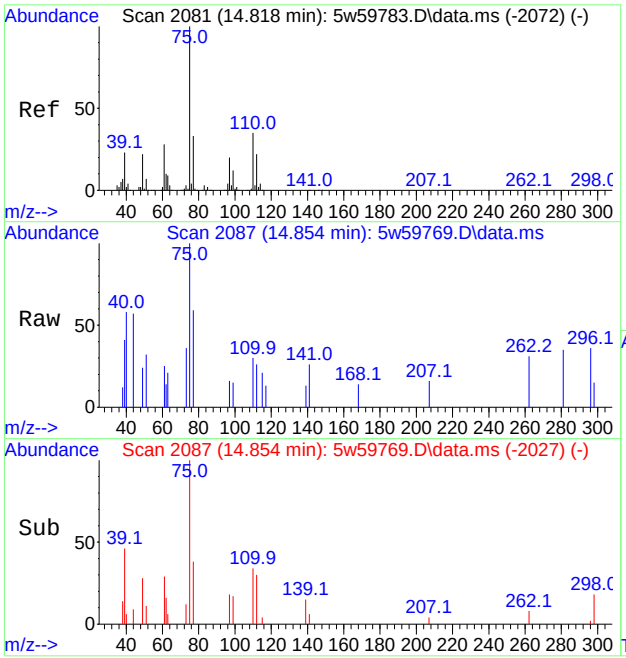


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.05 PPBV
RT: 14.714 min Scan# 2064
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 83 Resp: 5918

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	4.8	0.0	40.3

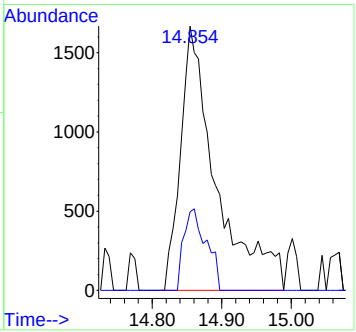


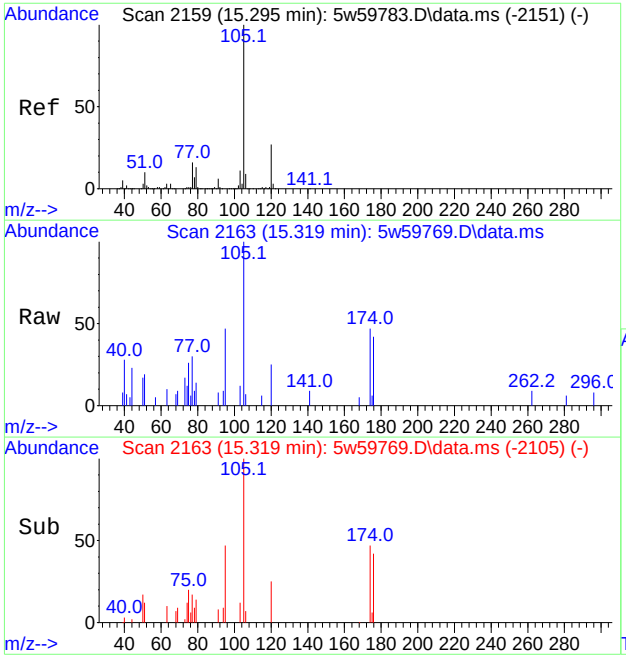


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.06 PPBV
RT: 14.854 min Scan# 2087
Delta R.T. 0.036 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 75 Resp: 5967

Ion	Ratio	Lower	Upper
75	100		
110	19.5	4.4	64.4

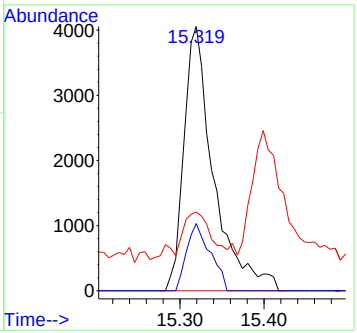


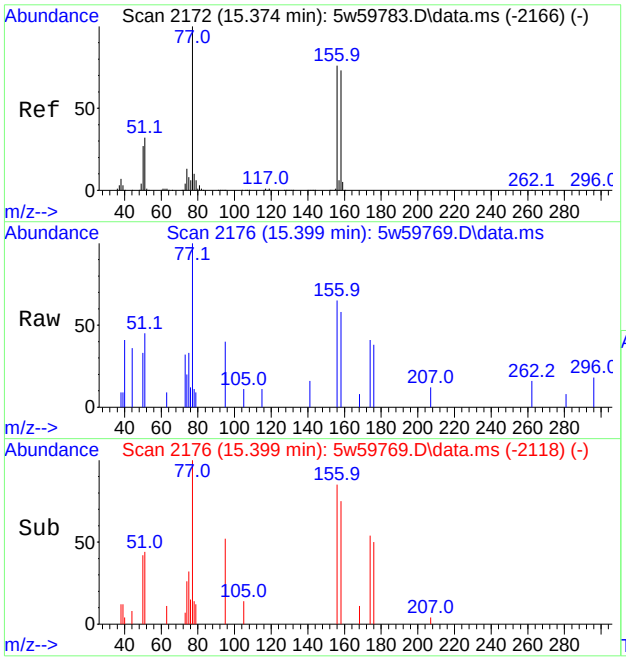


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.319 min Scan# 2163
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9953

Ion	Ratio	Lower	Upper
105	100		
120	20.2	0.0	56.0
77	22.4	0.0	45.6

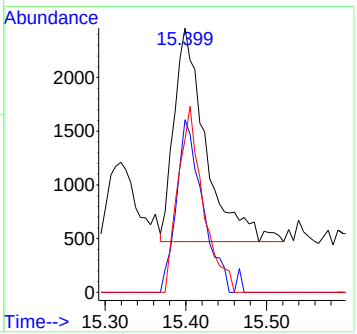


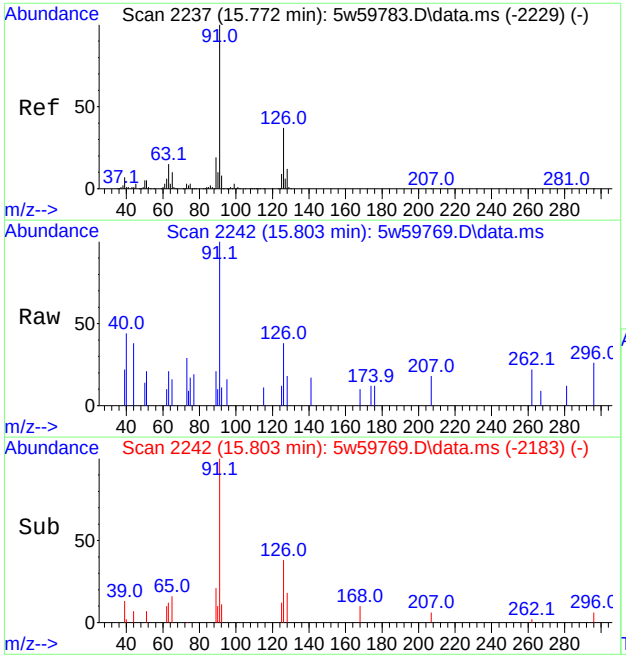


#89
BROMOBENZENE
Concen: 0.05 PPBV
RT: 15.399 min Scan# 2176
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 77 Resp: 5423

Ion	Ratio	Lower	Upper
77	100		
156	66.4	54.9	101.9
158	69.0	53.5	99.3

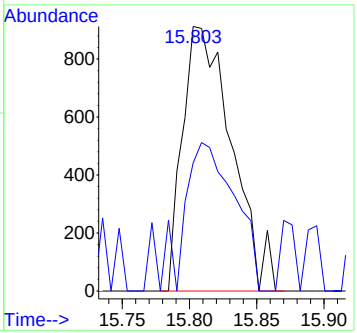


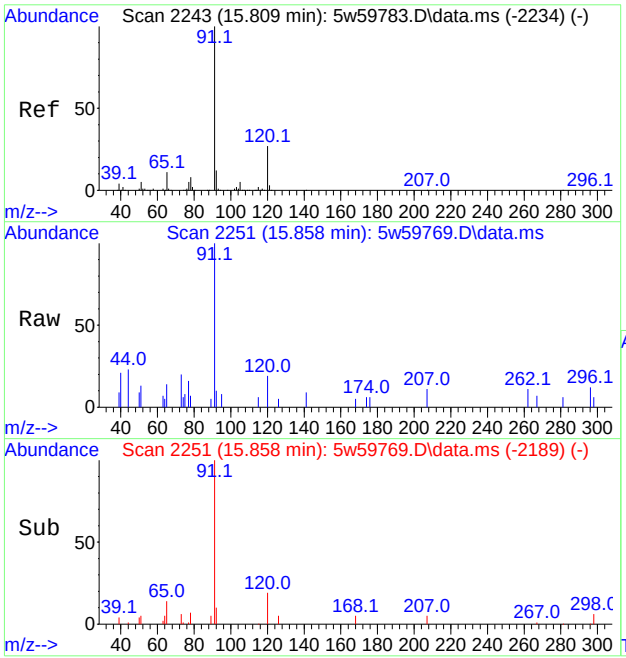


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 15.803 min Scan# 2242
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:126 Resp: 2313

Ion	Ratio	Lower	Upper
126	100		
128	53.8	2.7	62.7

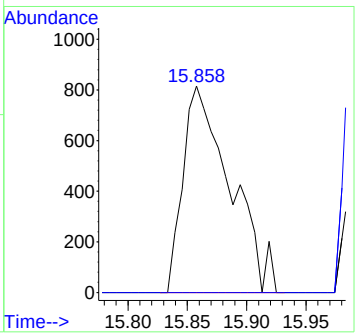


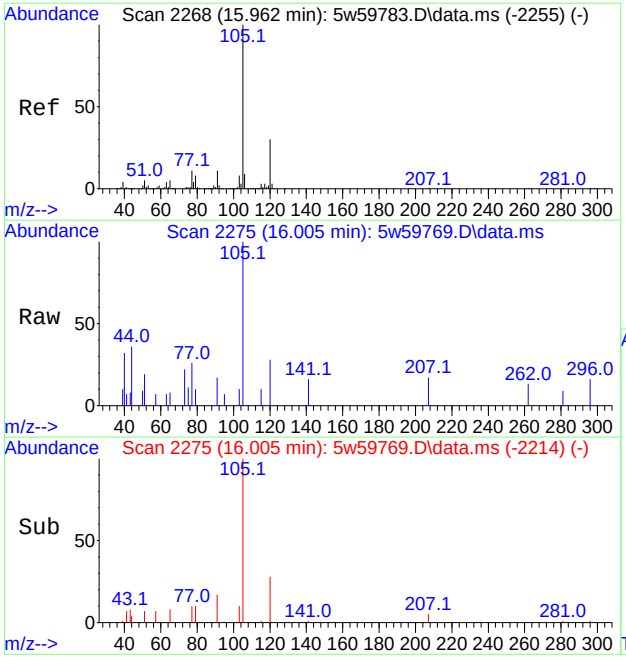


#91
n-PROPYLBENZENE
Concen: 0.04 PPBV
RT: 15.858 min Scan# 2251
Delta R.T. 0.049 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:120 Resp: 2252

Ion	Ratio	Lower	Upper
120	100		
105	0.0	0.0	47.0

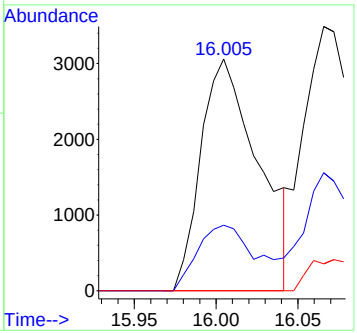


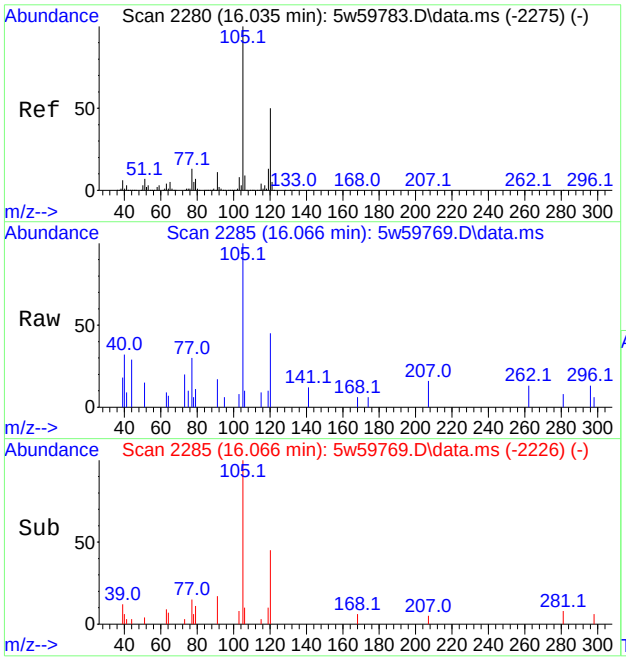


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV m
RT: 16.005 min Scan# 2275
Delta R.T. 0.043 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 7489

Ion	Ratio	Lower	Upper
105	100		
120	55.0	0.0	59.9
119	12.2	0.0	32.3

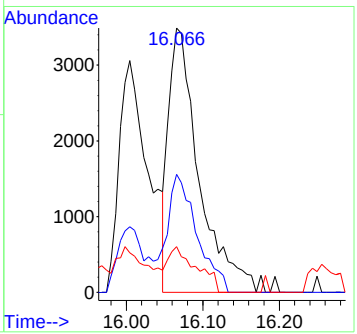


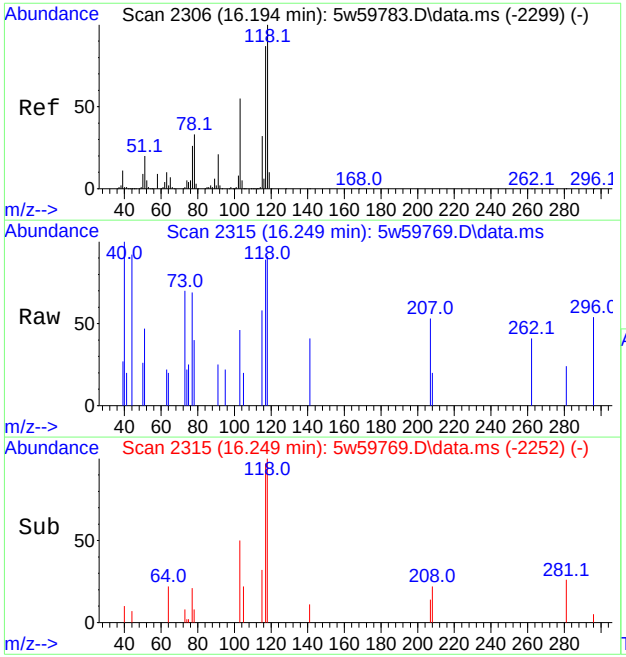


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.05 PPBV m
RT: 16.066 min Scan# 2285
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 9751

Ion	Ratio	Lower	Upper
105	100		
120	23.3	19.4	79.4
91	17.0	0.0	40.8

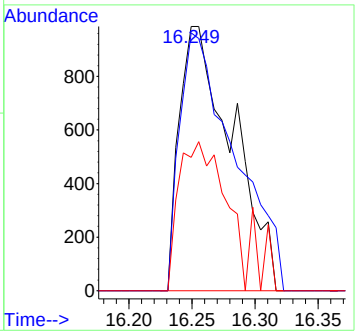


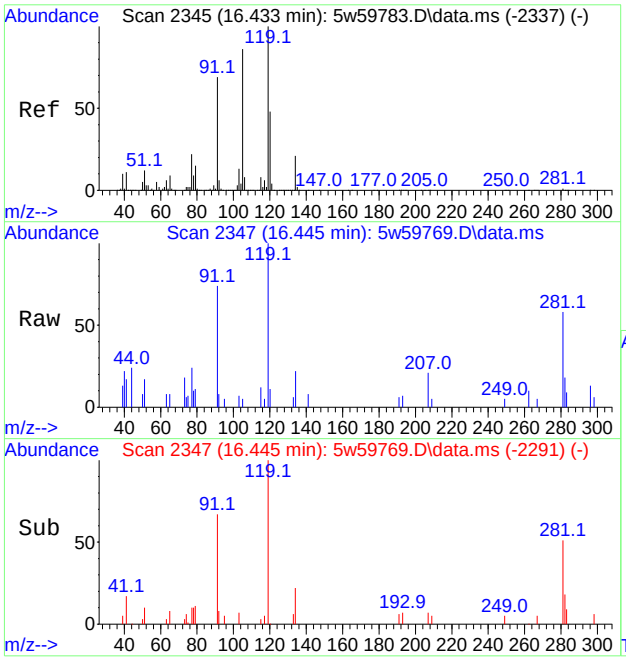


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.249 min Scan# 2315
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:118 Resp: 2895

Ion	Ratio	Lower	Upper
118	100		
117	100.8	60.9	113.1
103	48.7	38.6	71.8

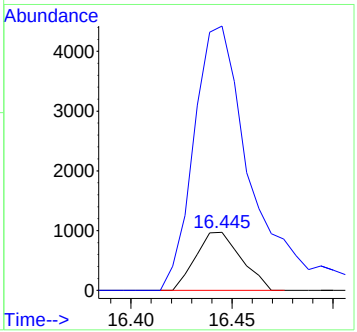


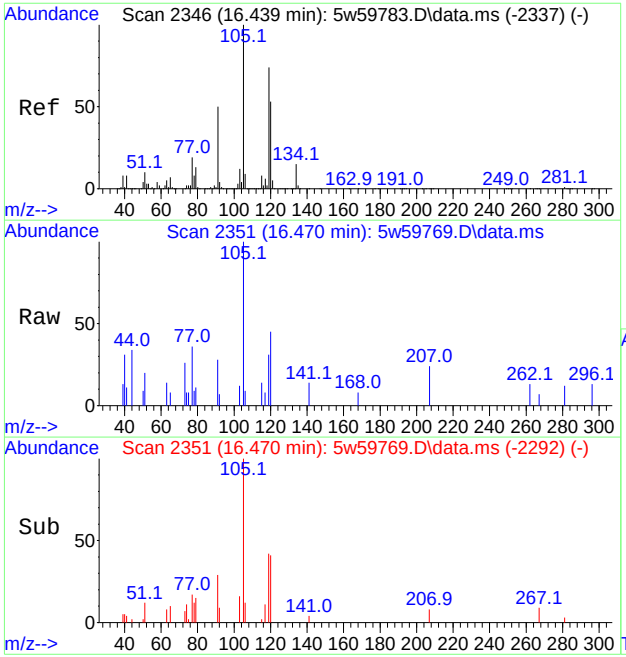


#95
tert-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.012 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1525

Ion	Ratio	Lower	Upper
134	100		
119	590.2	459.3	519.3#

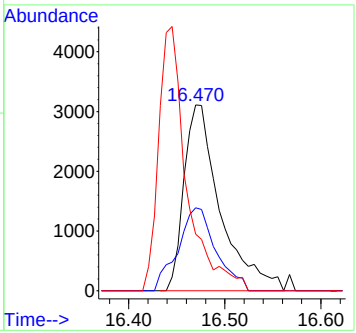


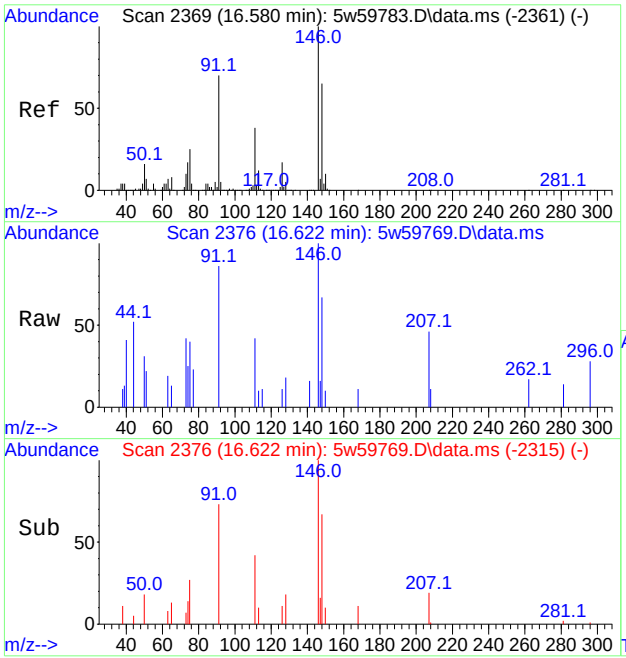


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.05 PPBV
RT: 16.470 min Scan# 2351
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8180

Ion	Ratio	Lower	Upper
105	100		
120	46.7	25.7	85.7
119	0.0	75.7	135.7#

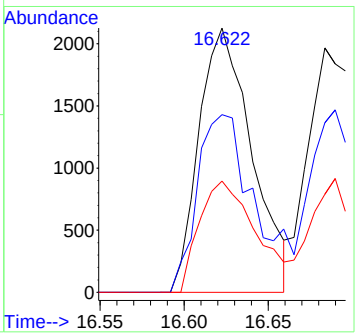


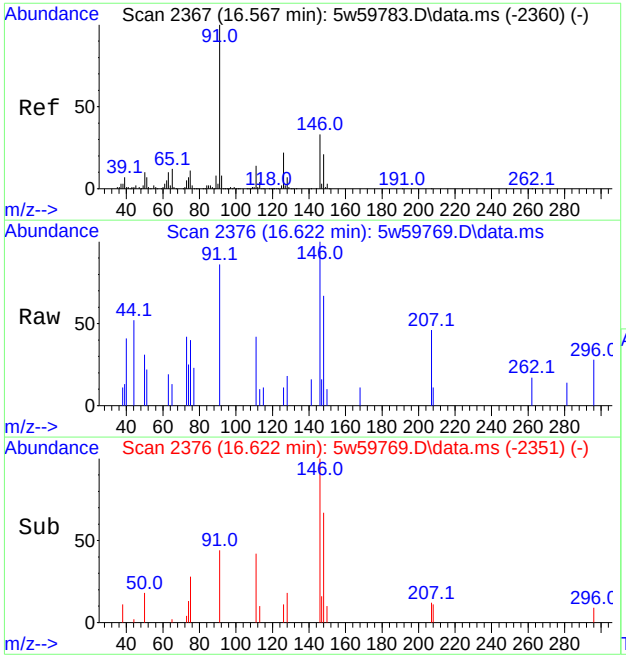


#97
m-DICHLOROBENZENE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.042 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 4669

Ion	Ratio	Lower	Upper
146	100		
148	73.3	34.8	94.8
111	44.7	8.2	68.2

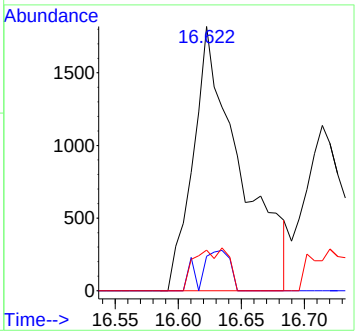


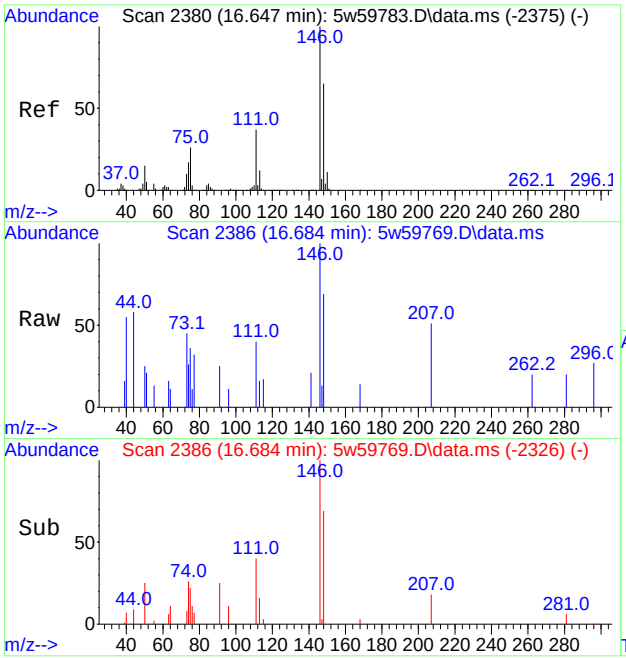


#98
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.622 min Scan# 2376
Delta R.T. 0.055 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion: 91 Resp: 4703

Ion	Ratio	Lower	Upper
91	100		
126	9.6	0.0	51.7
65	11.6	0.0	42.2

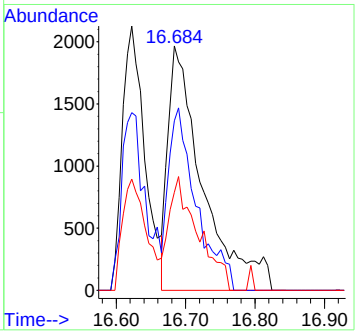


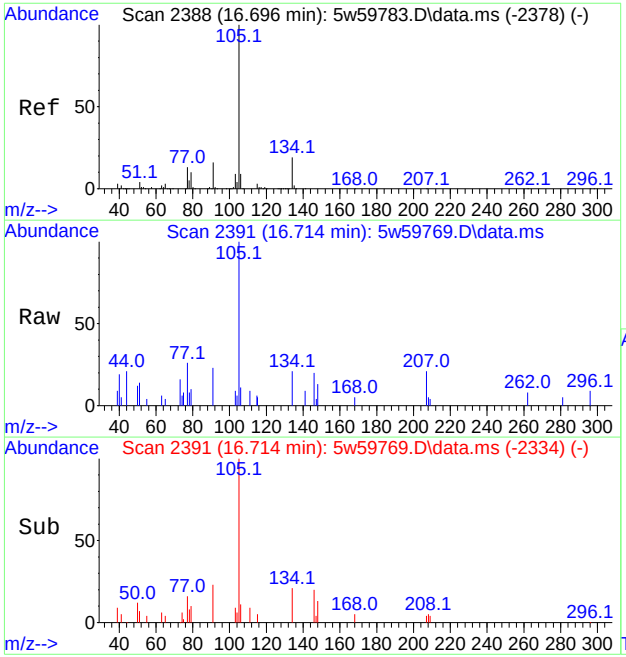


#99
p-DICHLOROBENZENE
Concen: 0.05 PPBV m
RT: 16.684 min Scan# 2386
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 6829

Ion	Ratio	Lower	Upper
146	100		
148	50.1	34.6	94.6
111	30.5	6.7	66.7

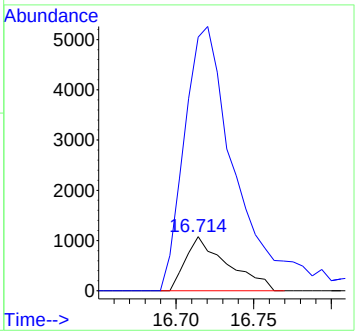


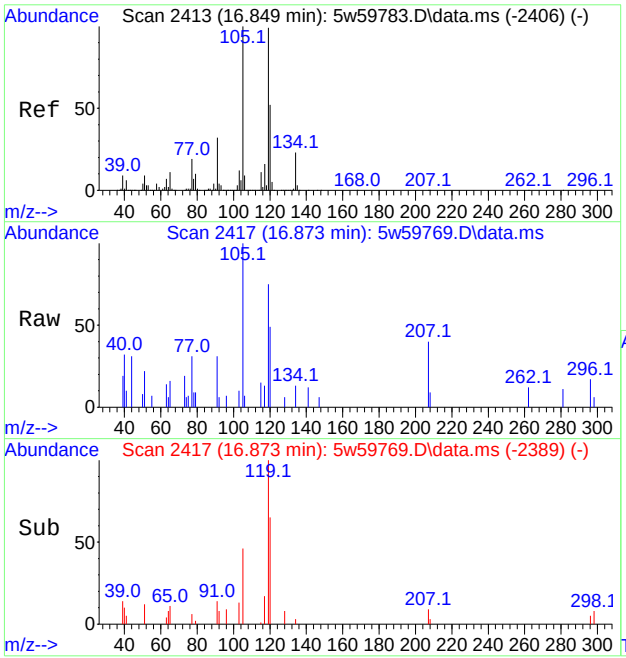


#100
sec-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.714 min Scan# 2391
Delta R.T. 0.018 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2023

Ion	Ratio	Lower	Upper
134	100		
105	613.6	502.5	562.5#

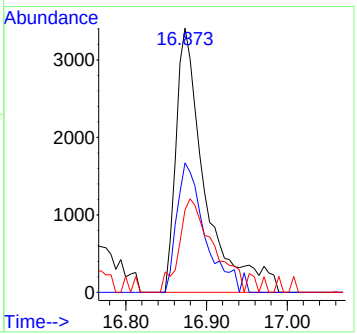


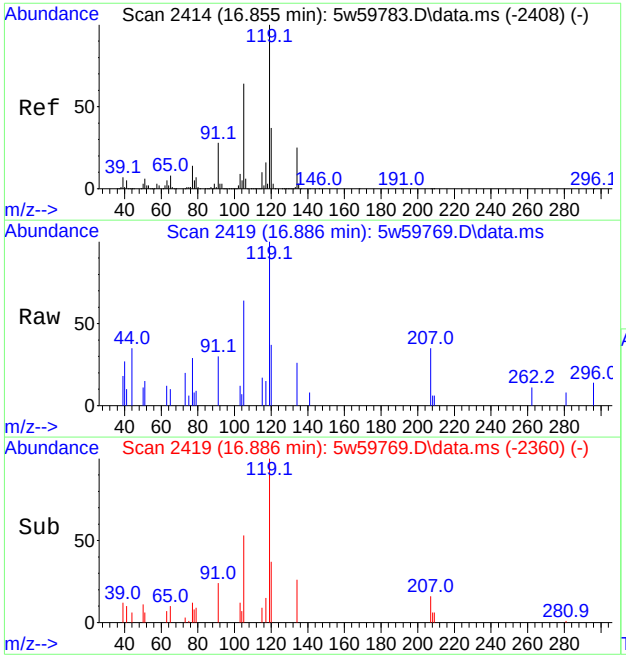


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.873 min Scan# 2417
Delta R.T. 0.024 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:105 Resp: 8480

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	41.5	7.4	67.4

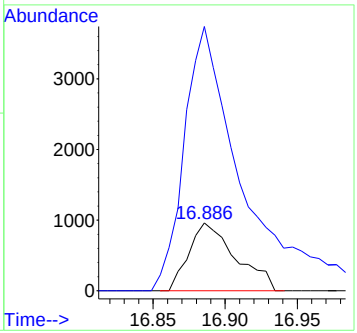


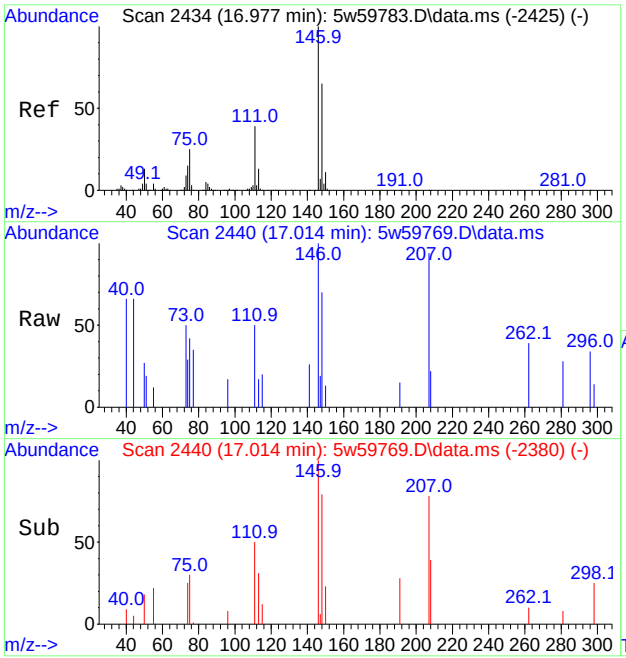


#102
p-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 16.886 min Scan# 2419
Delta R.T. 0.031 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 2164

Ion	Ratio	Lower	Upper
134	100		
119	504.7	377.7	437.7#

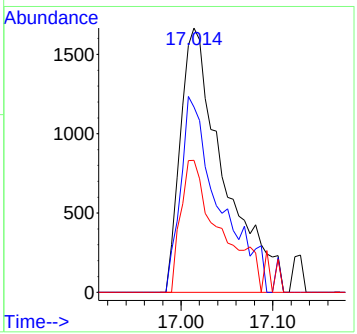


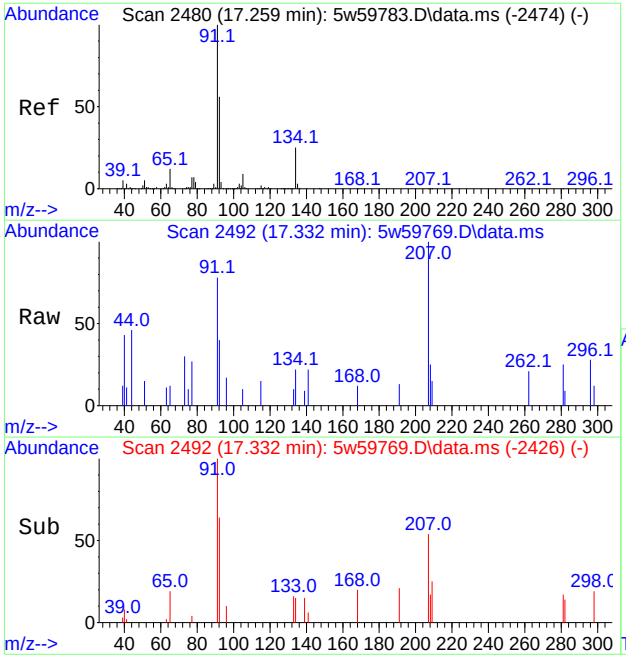


#103
o-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 17.014 min Scan# 2440
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:146 Resp: 5480

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.3	94.3
111	45.3	9.2	69.2

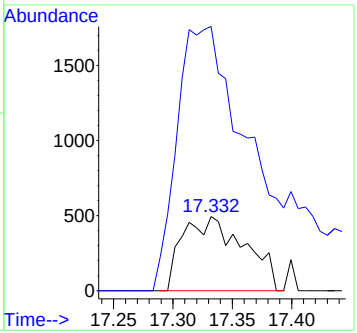


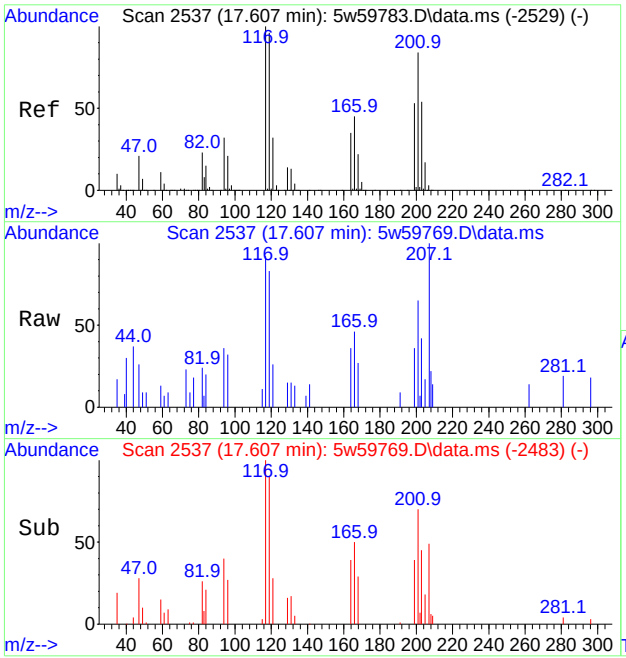


#104
n-BUTYLBENZENE
Concen: 0.03 PPBV
RT: 17.332 min Scan# 2492
Delta R.T. 0.073 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:134 Resp: 1780

Ion	Ratio	Lower	Upper
134	100		
91	517.0	363.1	423.1#

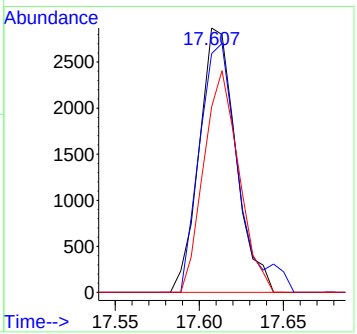


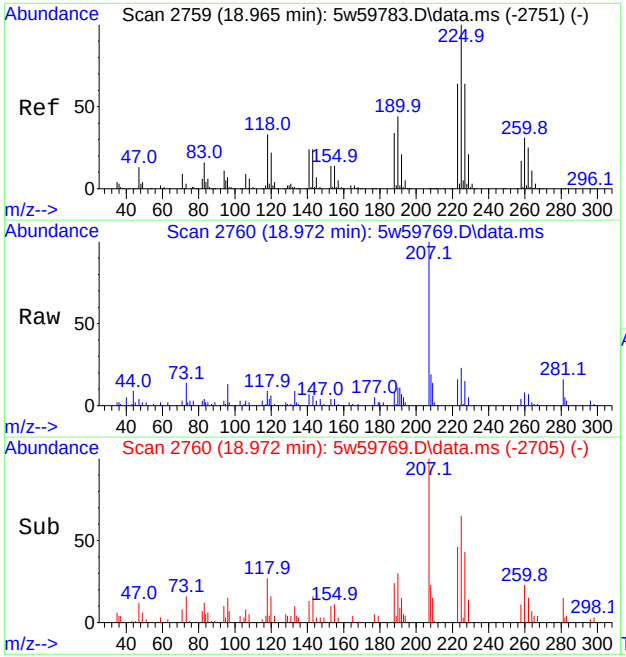


#105
HEXACHLOROETHANE
Concen: 0.05 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:117 Resp: 4357

Ion	Ratio	Lower	Upper
117	100		
119	99.3	67.2	124.8
201	80.2	61.1	113.5

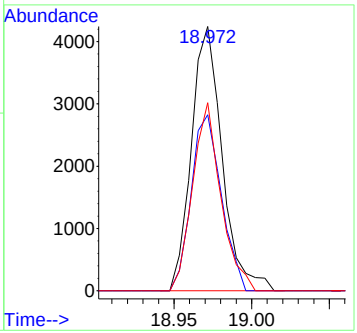


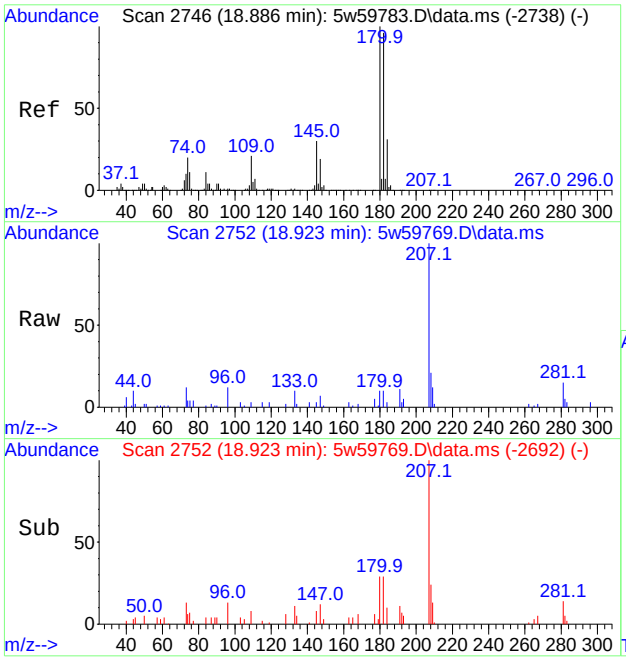


#106
HEXACHLOROBUTADIENE
Concen: 0.05 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:225 Resp: 5840

Ion	Ratio	Lower	Upper
225	100		
227	65.1	34.2	94.2
223	65.4	33.3	93.3

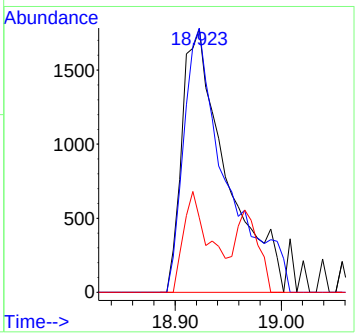


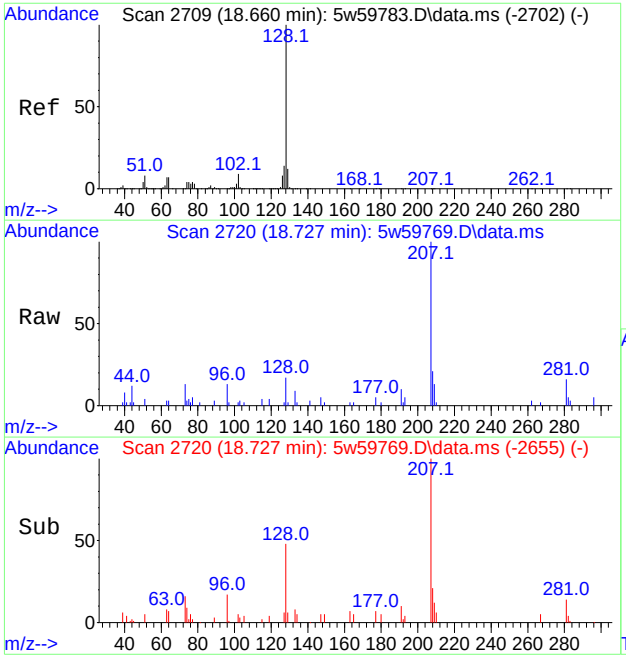


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.04 PPBV
RT: 18.923 min Scan# 2752
Delta R.T. 0.037 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:180 Resp: 5141

Ion	Ratio	Lower	Upper
180	100		
182	97.1	65.4	125.4
145	22.6	0.0	59.4

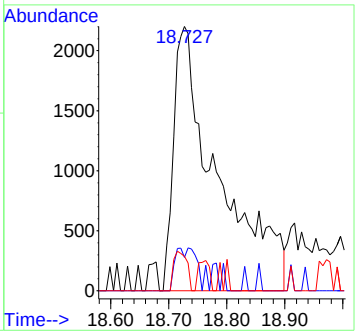


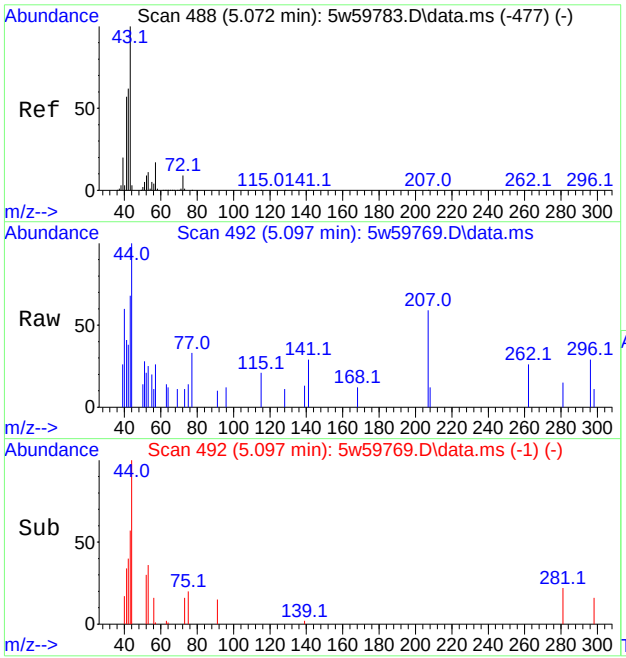


#108
NAPHTHALENE
Concen: 0.04 PPBV m
RT: 18.727 min Scan# 2720
Delta R.T. 0.067 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:128 Resp: 11614

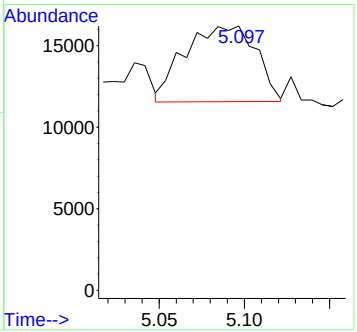
Ion	Ratio	Lower	Upper
128	100		
127	7.7	0.0	43.3
129	4.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.05 PPBV m
RT: 5.097 min Scan# 492
Delta R.T. 0.025 min
Lab File: 5w59769.D
Acq: 6 Nov 2025 10:35 pm

Tgt Ion:TIC Resp: 13430



Manual Integration Approval Summary

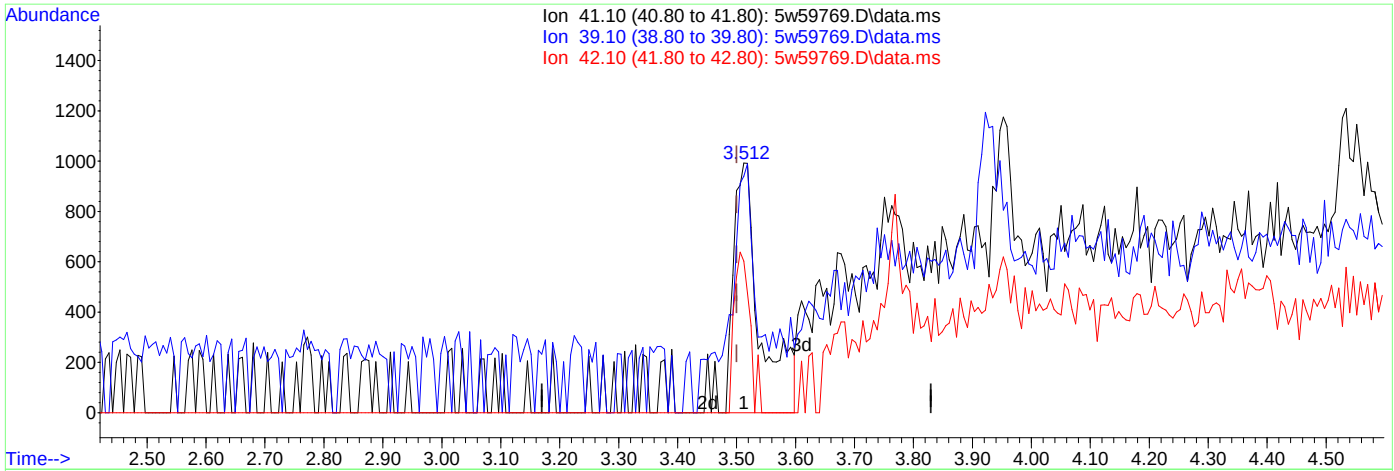
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59769.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/06/25 22:35 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

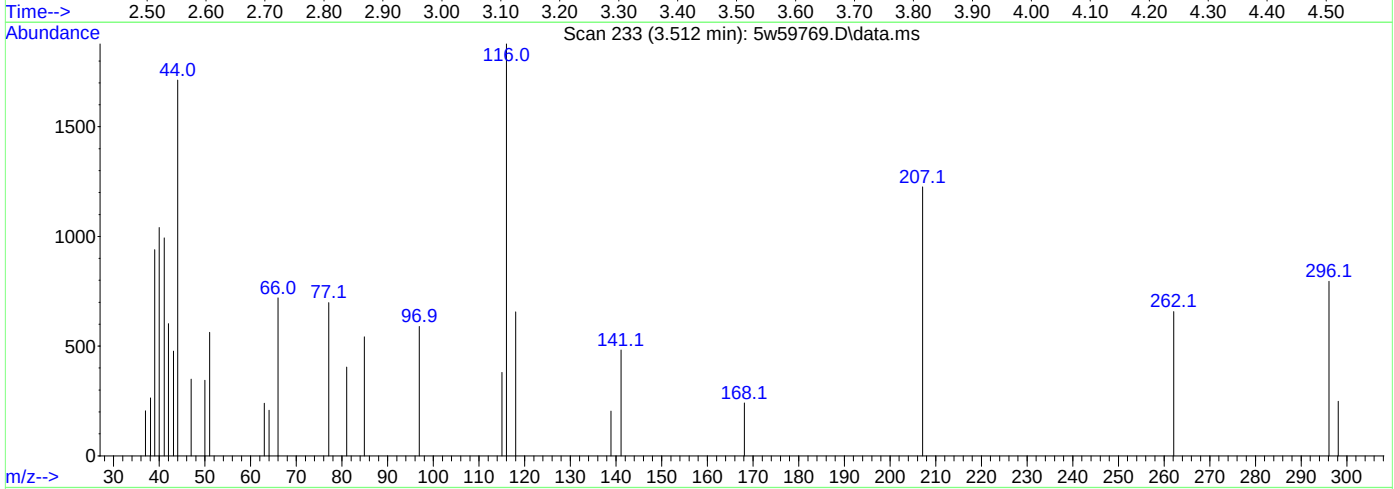
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propylene	115-07-1		3.51	Poor instrument integration
Freon 142B	75-68-3		3.65	Poor instrument integration
n-Butane	106-97-8		3.95	Poor instrument integration
Chloroethane	75-00-3		4.23	Poor instrument integration
Acrolein	107-02-8		4.62	Poor instrument integration
Isopropyl Alcohol	67-63-0		4.94	Poor instrument integration
TVHC As Equiv Pentane			5.10	Missed peak
trans-1,2-Dichloroethylene	156-60-5		6.25	Poor instrument integration
1,2-Dichloropropane	78-87-5		9.67	Poor instrument integration
Octane	111-65-9		12.77	Poor instrument integration
4-Ethyltoluene	622-96-8		16.00	Missed peak
1,3,5-Trimethylbenzene	108-67-8		16.07	Missed peak
p-Dichlorobenzene	106-46-7		16.68	Missed peak
Naphthalene	91-20-3		18.73	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.09PPBV

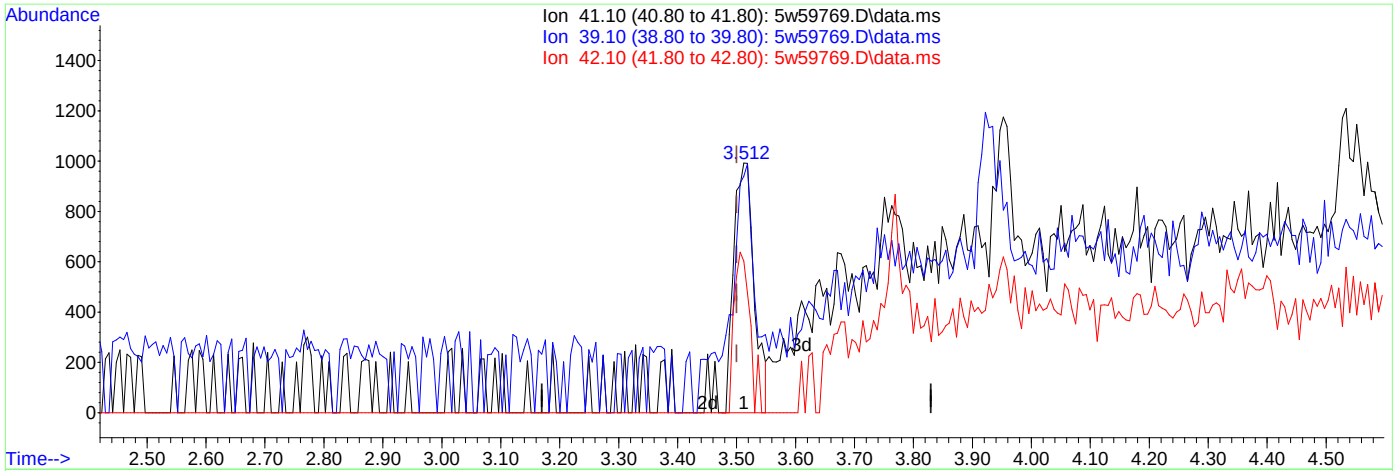
response 3070

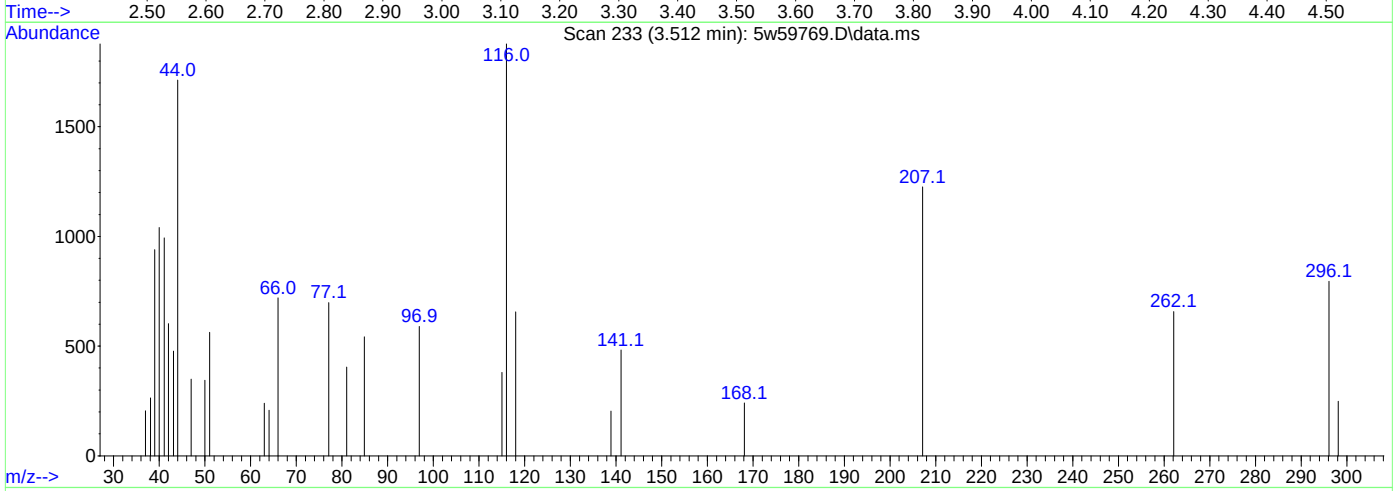
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	183.94#
42.10	66.30	38.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(7) PROPYLENE

3.512min (+0.012) 0.07PPBV m

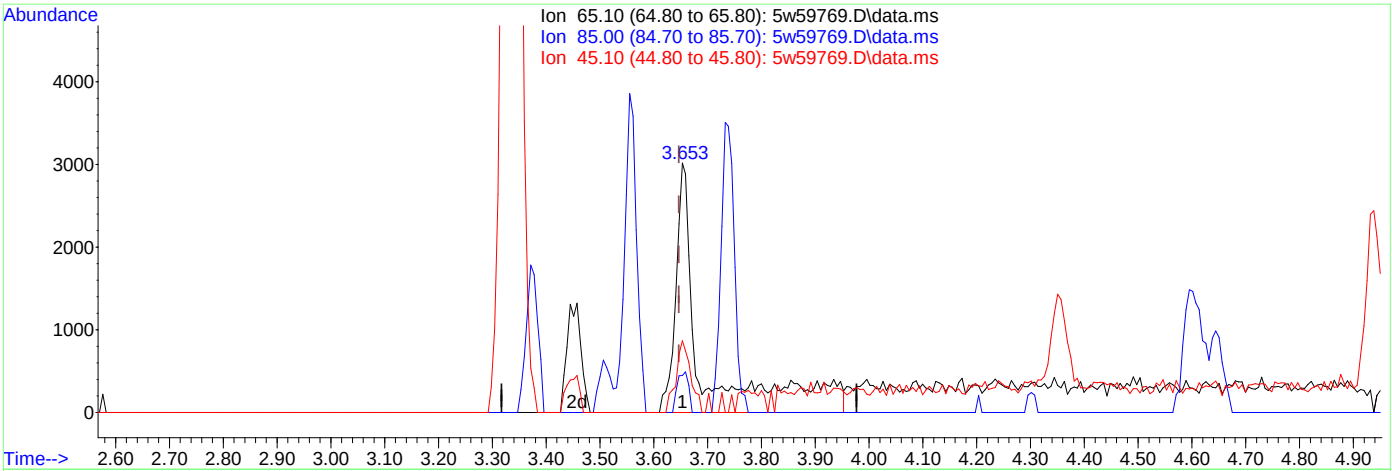
response 2388

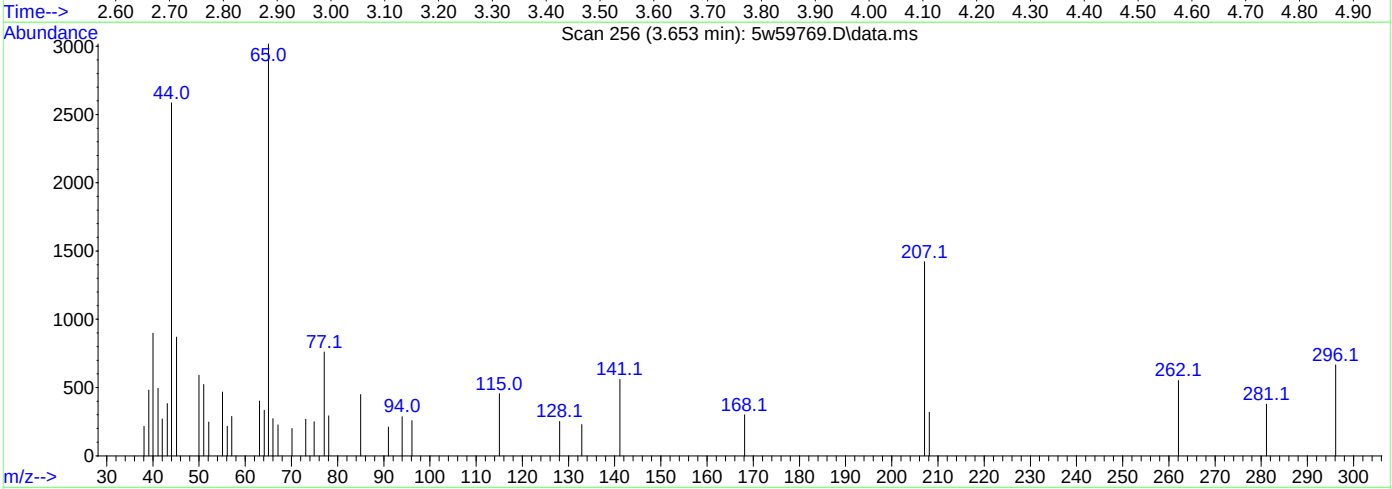
Ion	Exp%	Act%
41.10	100	100
39.10	75.10	236.47#
42.10	66.30	49.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.10PPBV

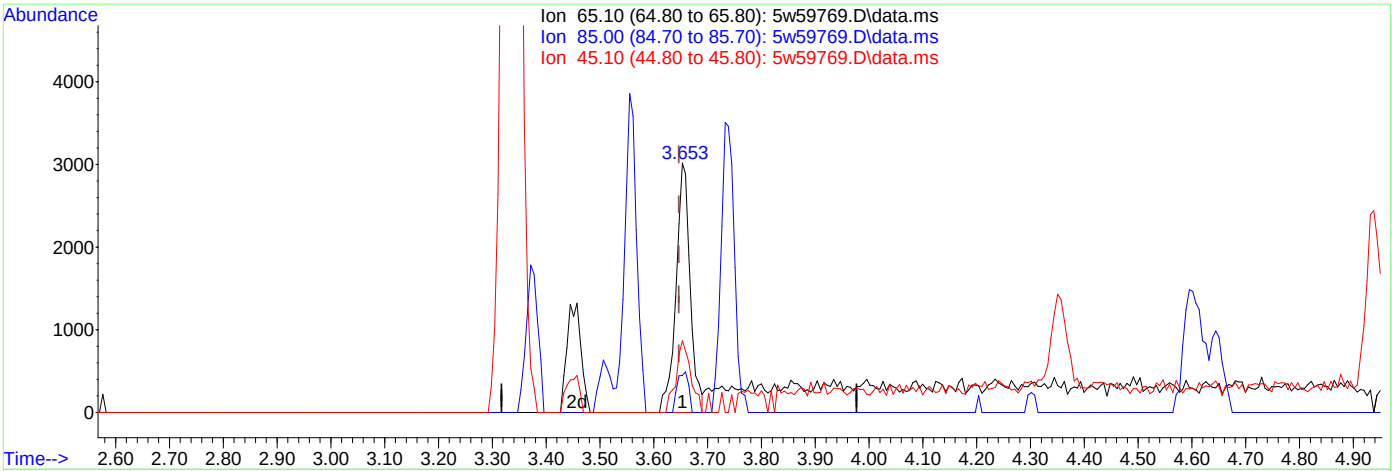
response 10348

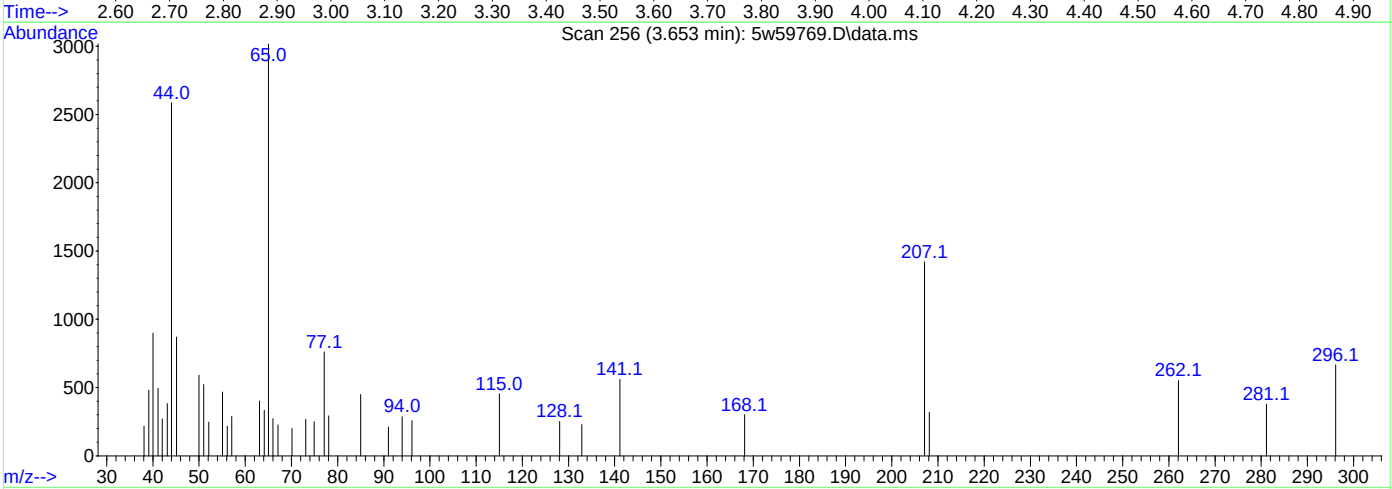
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	6.94#
45.10	20.00	16.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.653min (+0.006) 0.05PPBV m

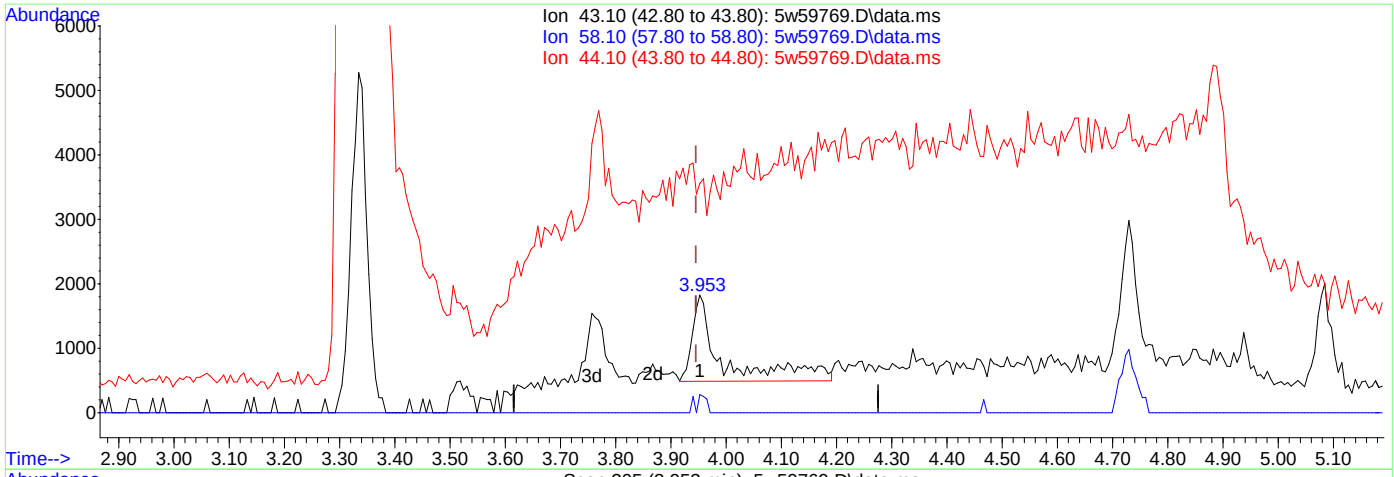
response 5550

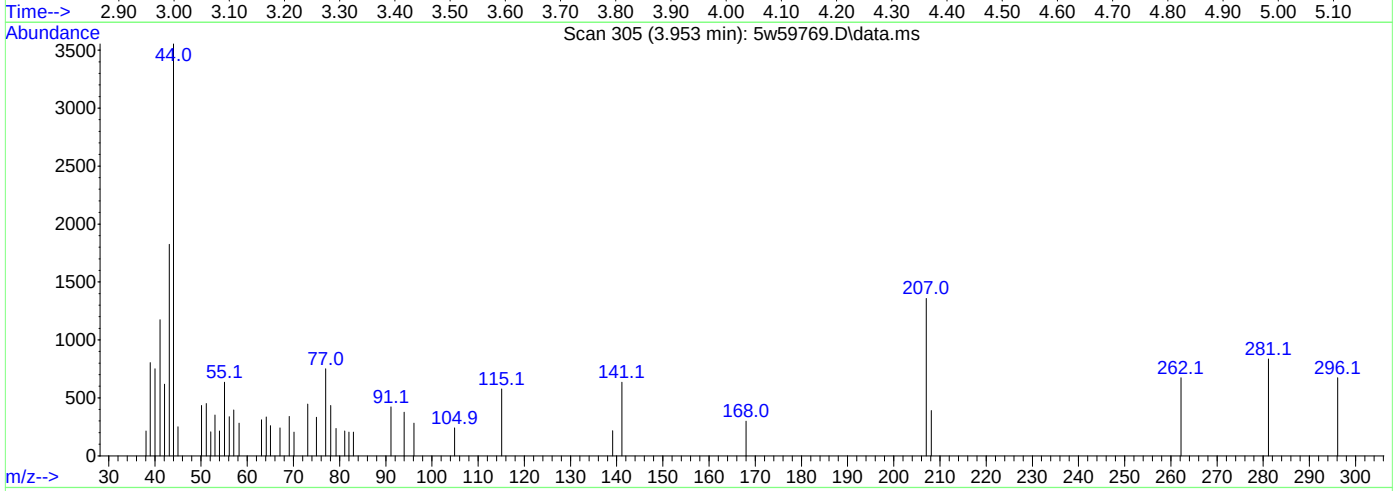
Ion	Exp%	Act%
65.10	100	100
85.00	16.40	12.94
45.10	20.00	29.96#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.12PPBV

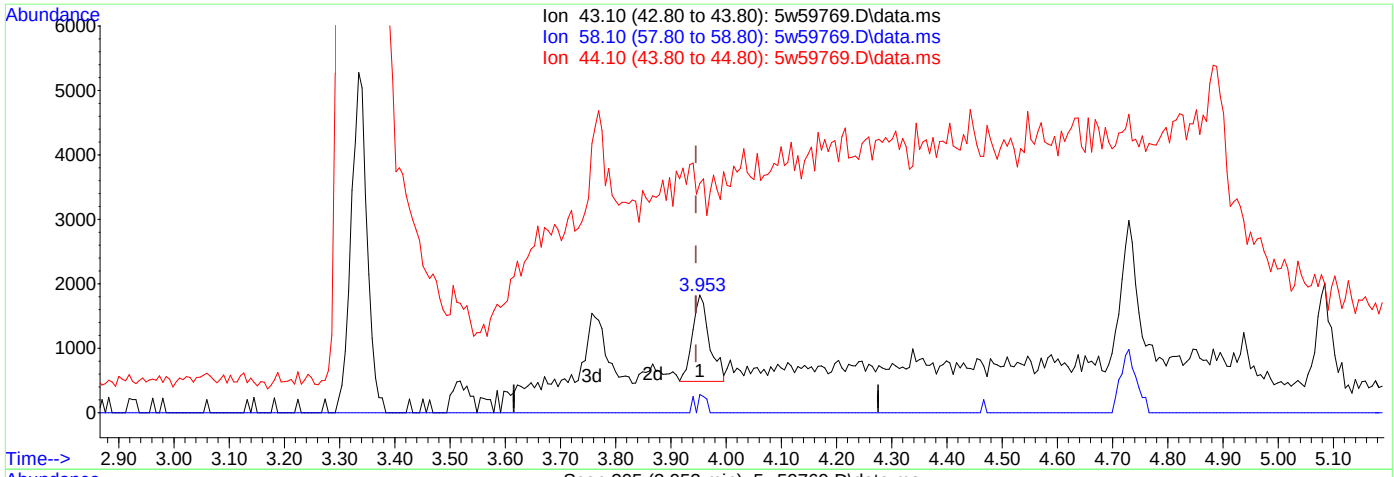
response 5032

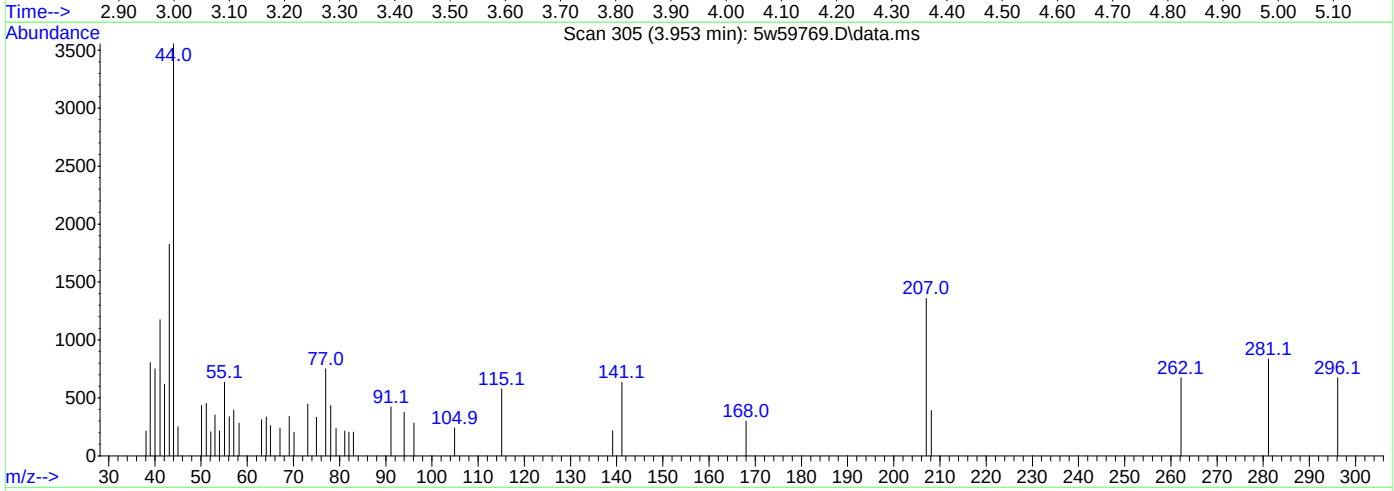
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	7.21
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(13) n-BUTANE

3.953min (+0.007) 0.07PPBV m

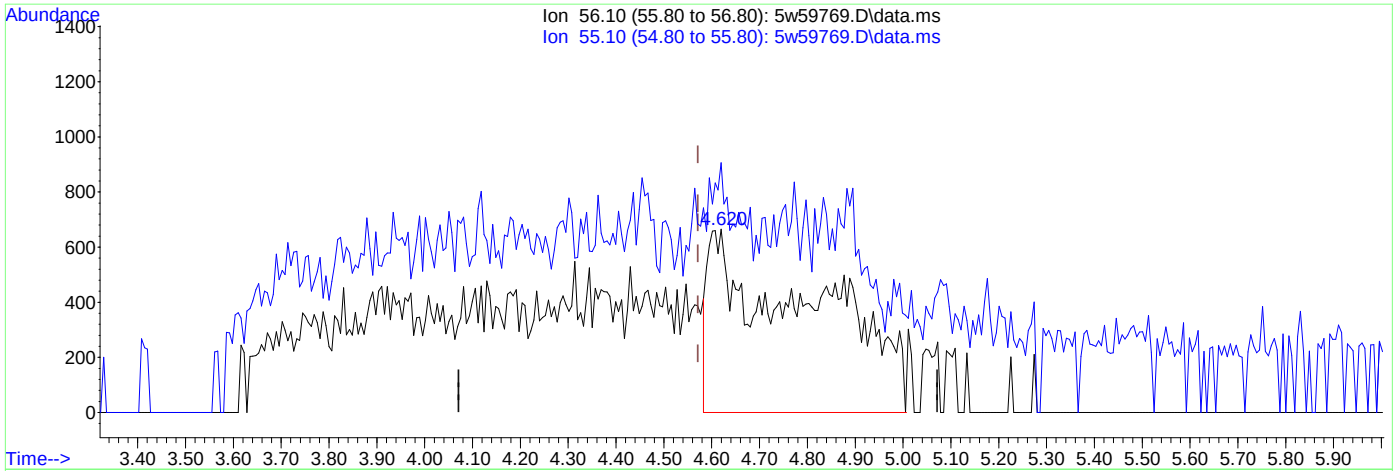
response 2825

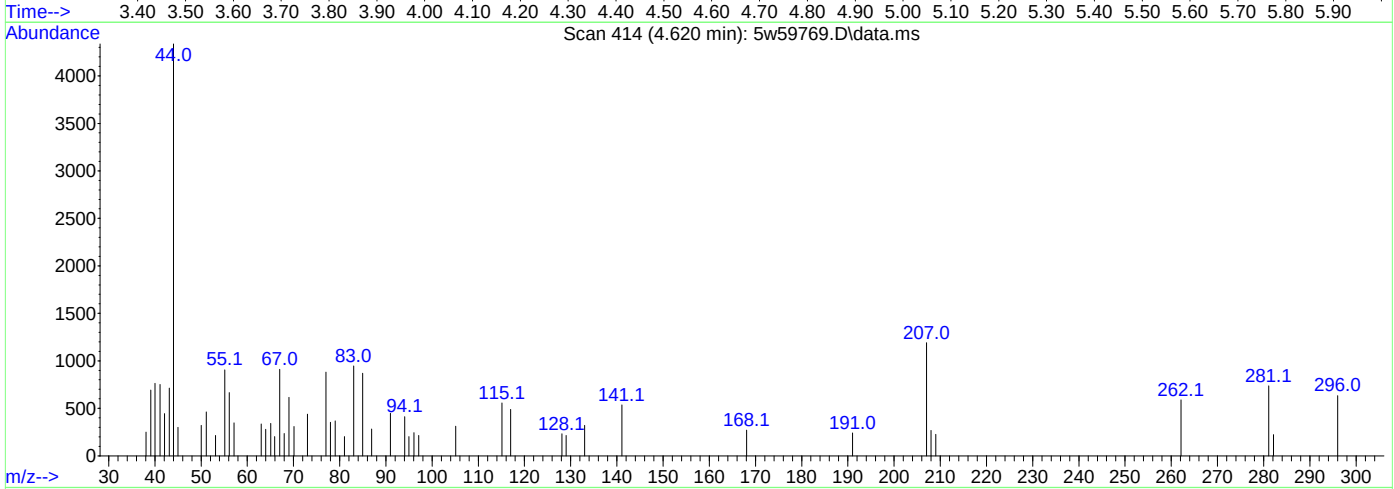
Ion	Exp%	Act%
43.10	100	100
58.10	12.60	12.85
44.10	4.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.69PPBV

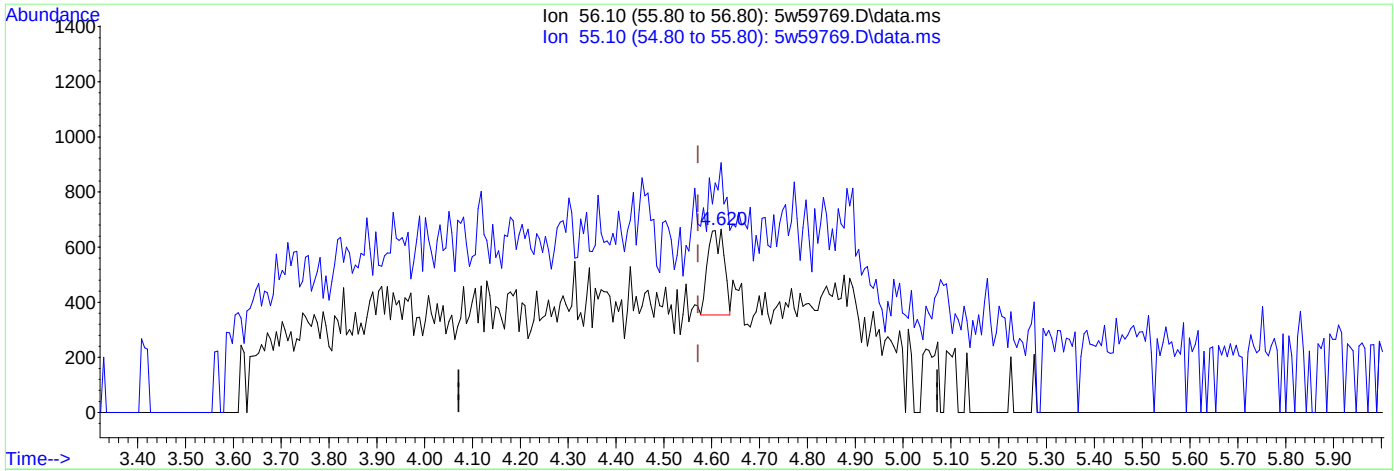
response 9827

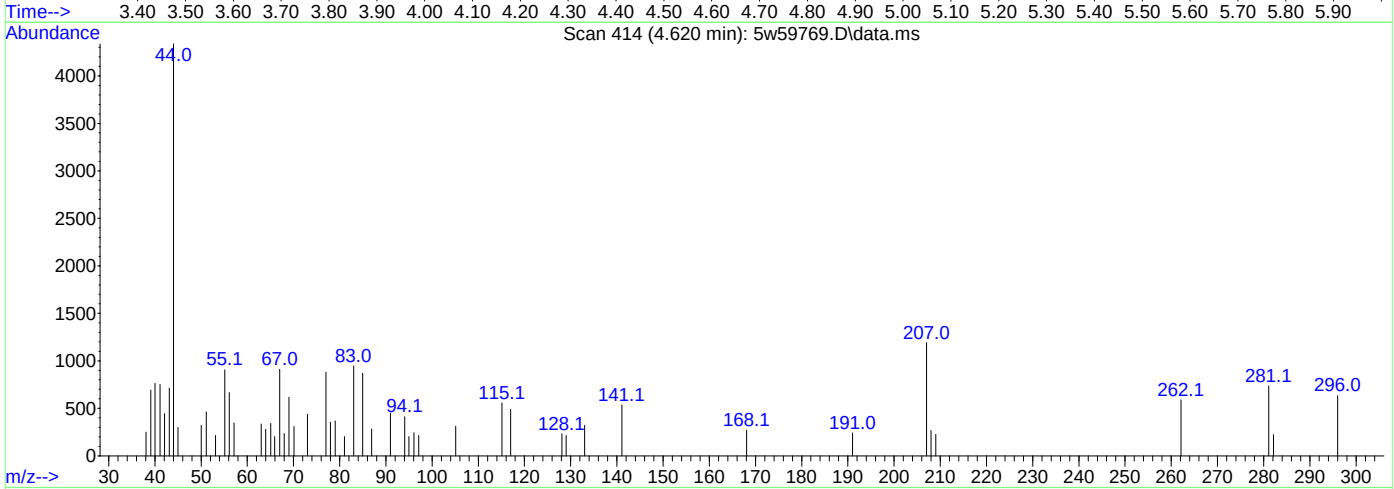
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	29.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(18) ACROLEIN

4.620min (+0.049) 0.05PPBV m

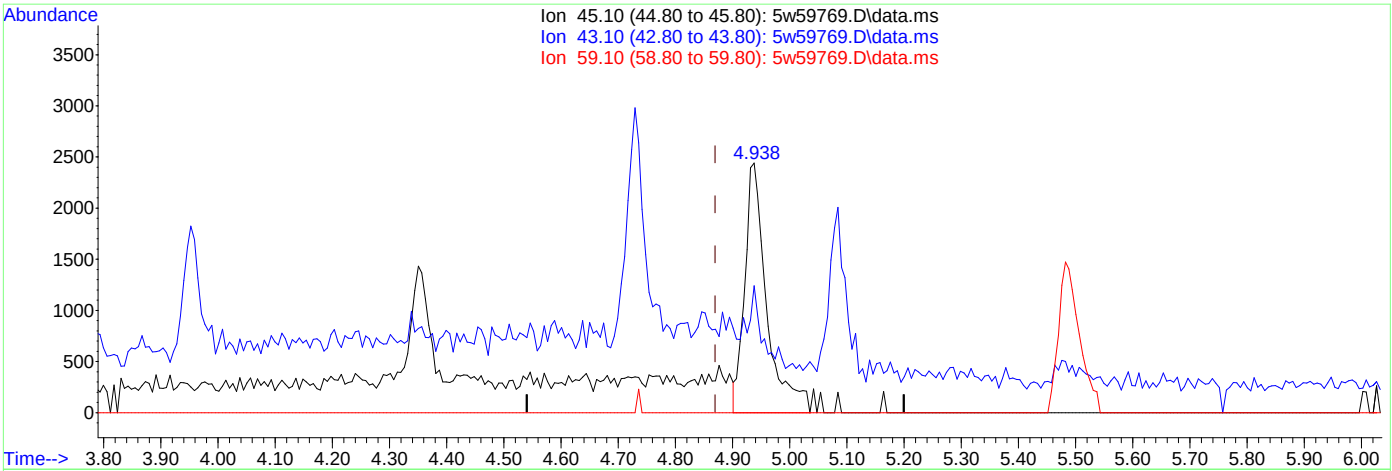
response 728

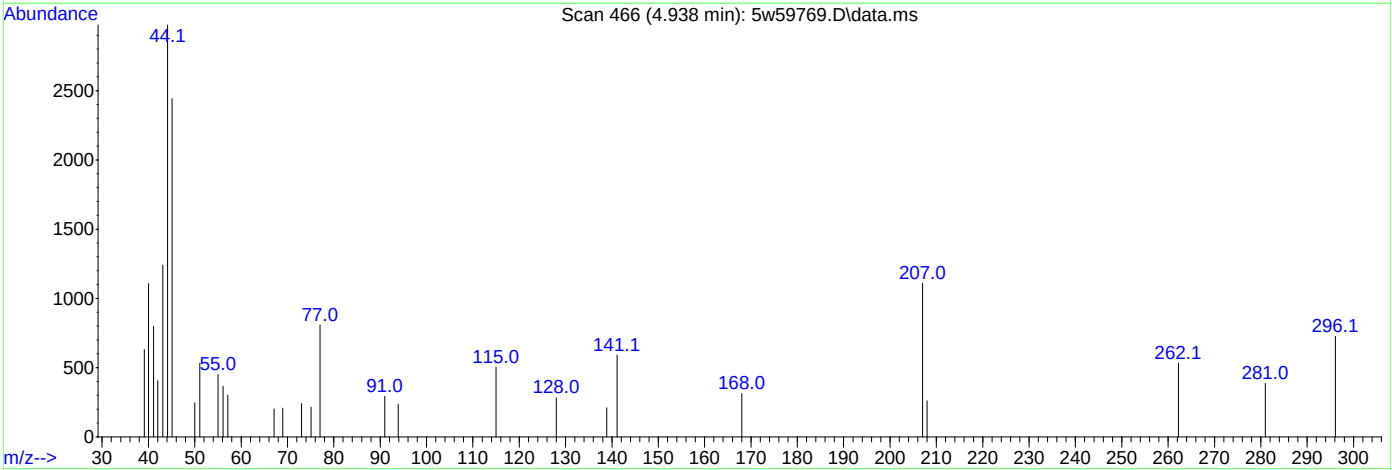
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	401.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.07PPBV

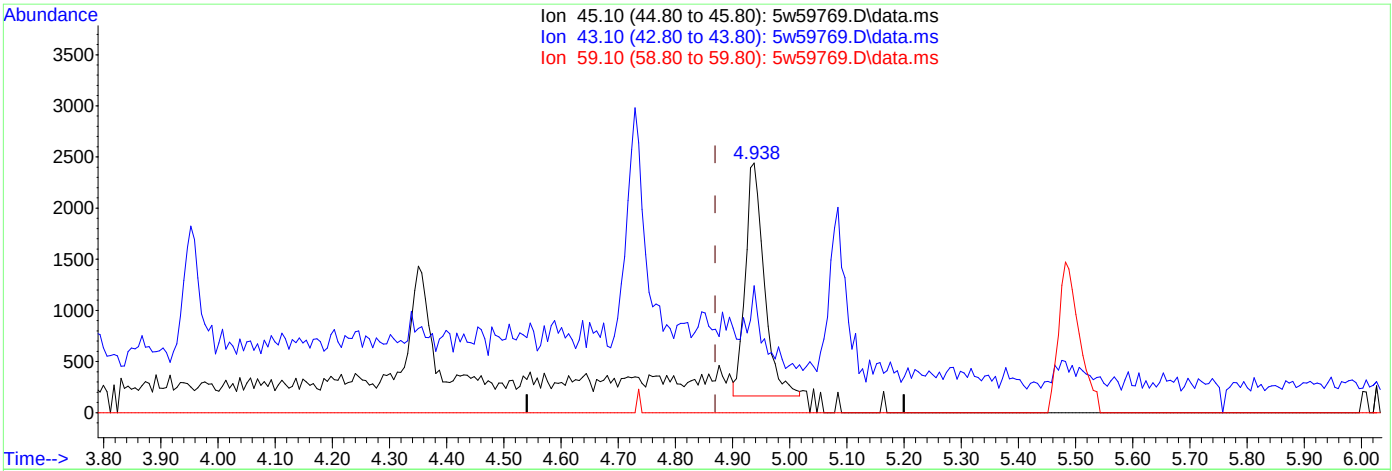
response 6511

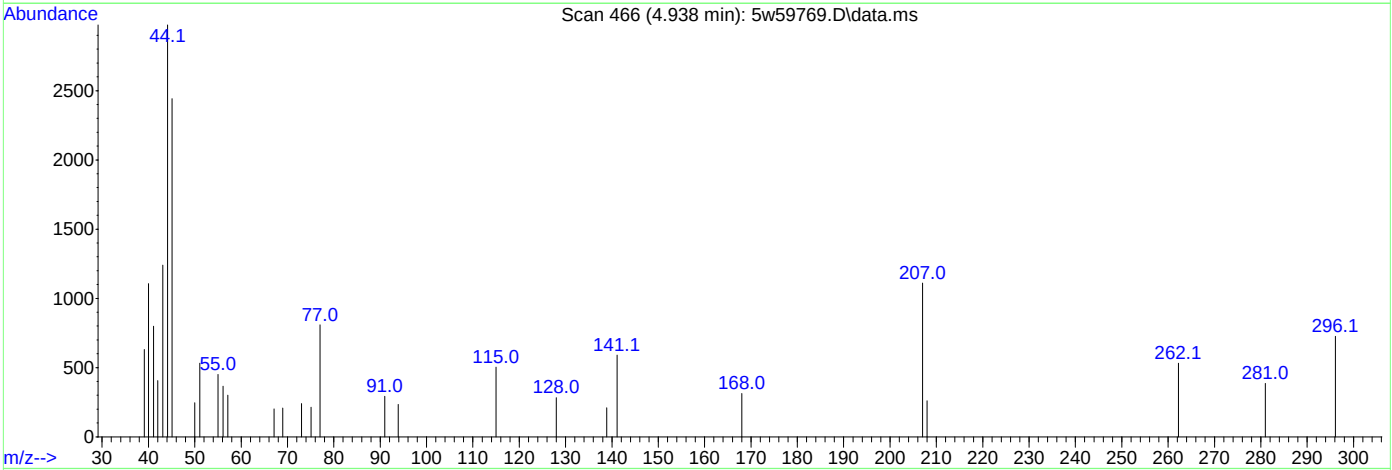
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(22) ISOPROPYL ALCOHOL

4.938min (+0.068) 0.06PPBV m

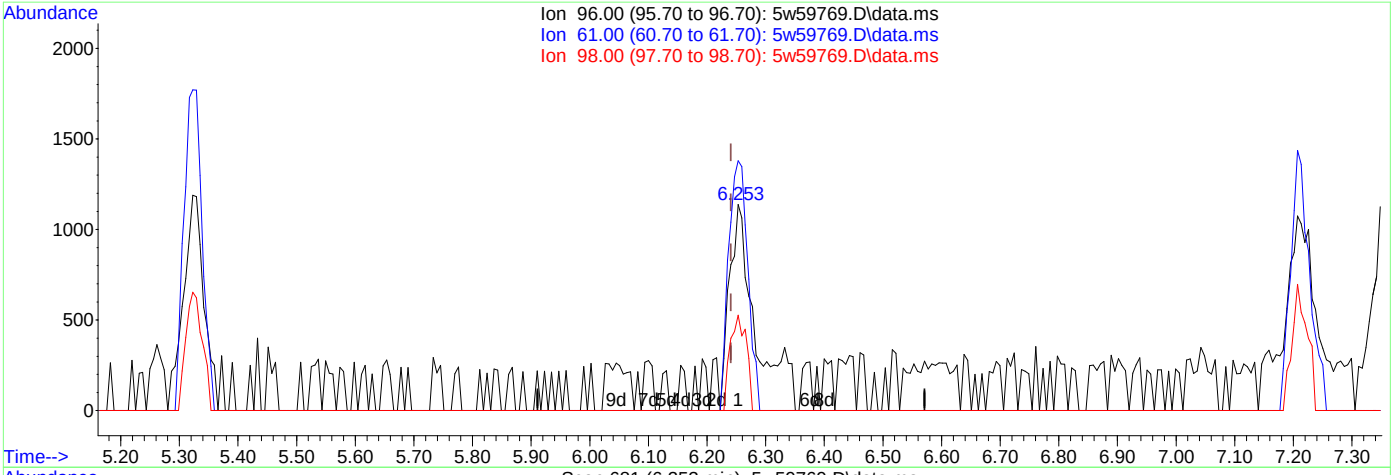
response 5219

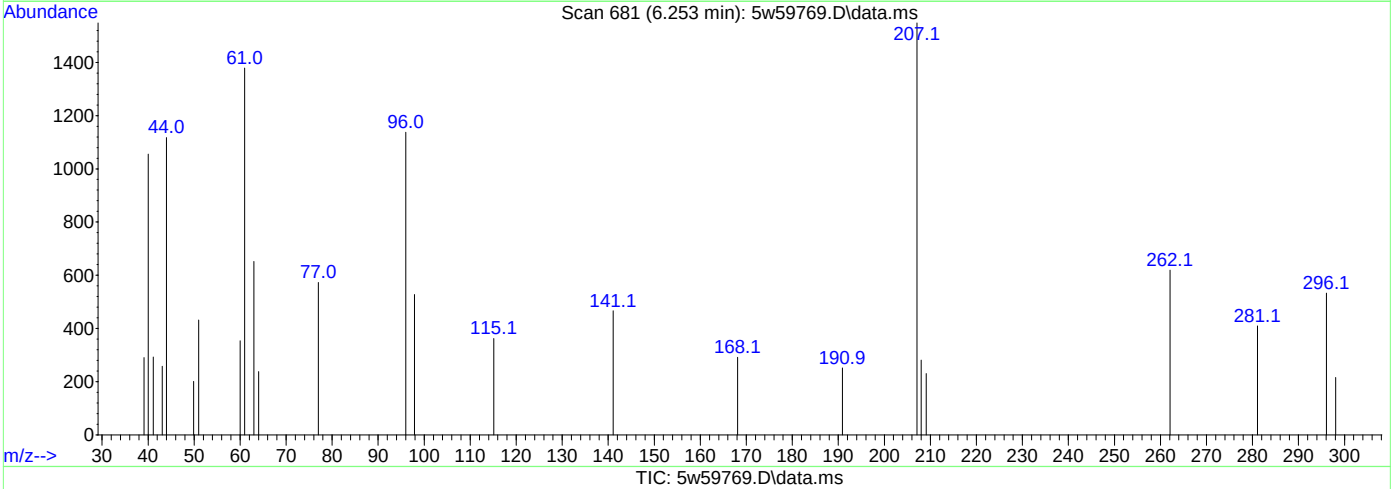
Ion	Exp%	Act%
45.10	100	100
43.10	17.80	50.82#
59.10	4.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.07PPBV

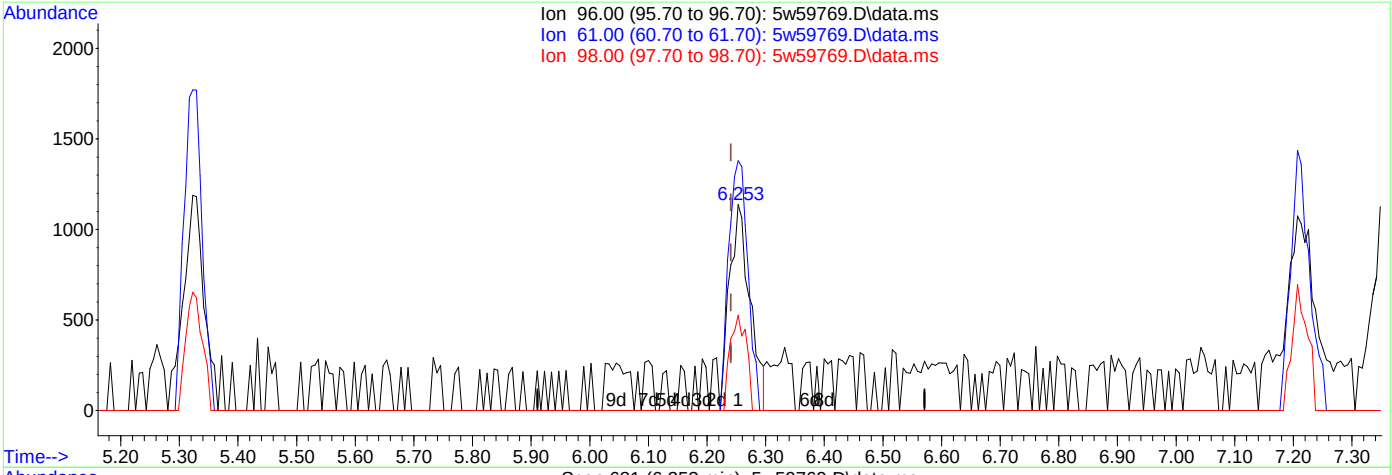
response 3570

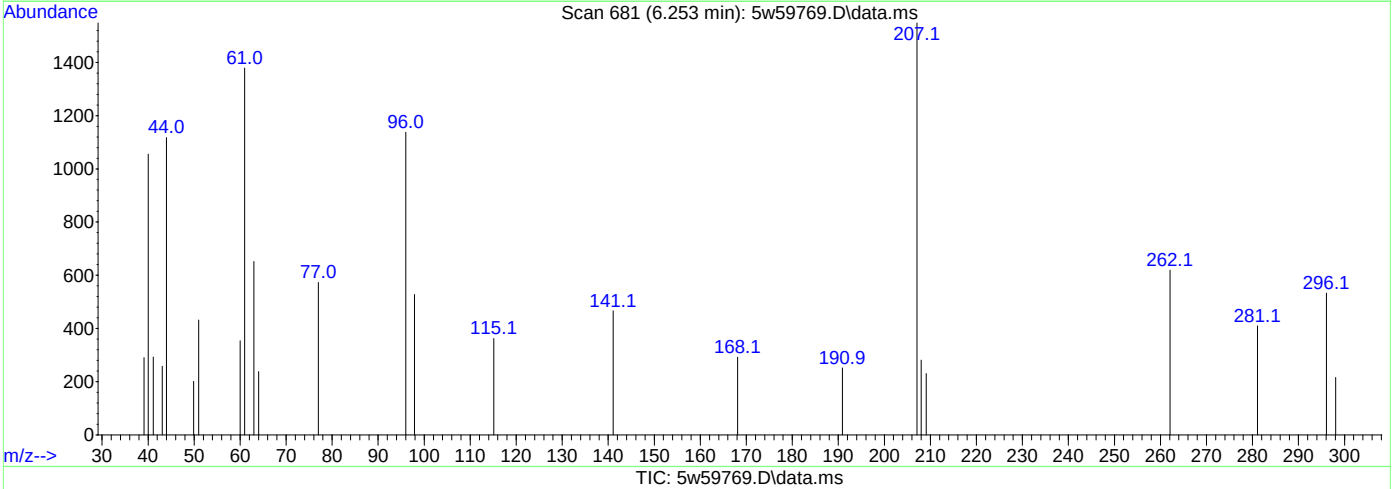
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	88.26#
98.00	64.10	28.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(34) TRANS-1,2-DICHLOROETHYLENE

6.253min (+0.012) 0.05PPBV m

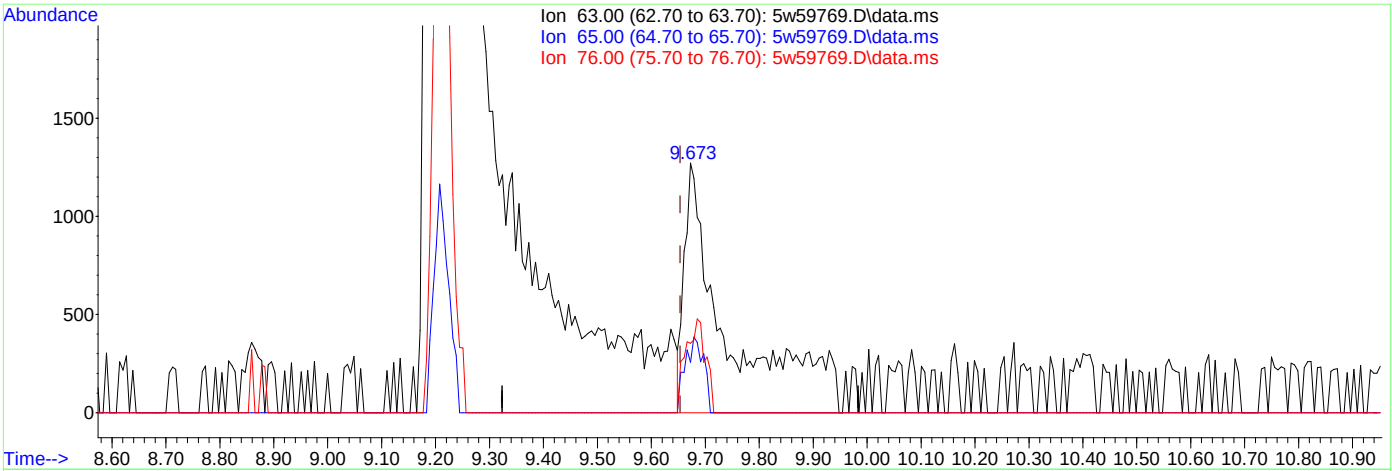
response 2781

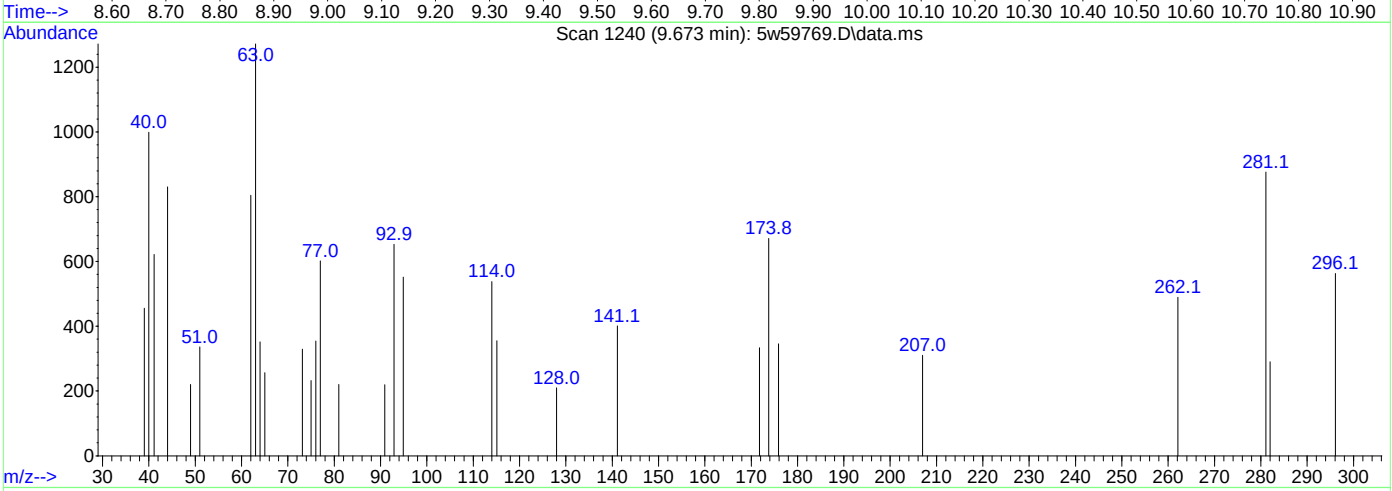
Ion	Exp%	Act%
96.00	100	100
61.00	156.40	113.30#
98.00	64.10	36.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.11PPBV

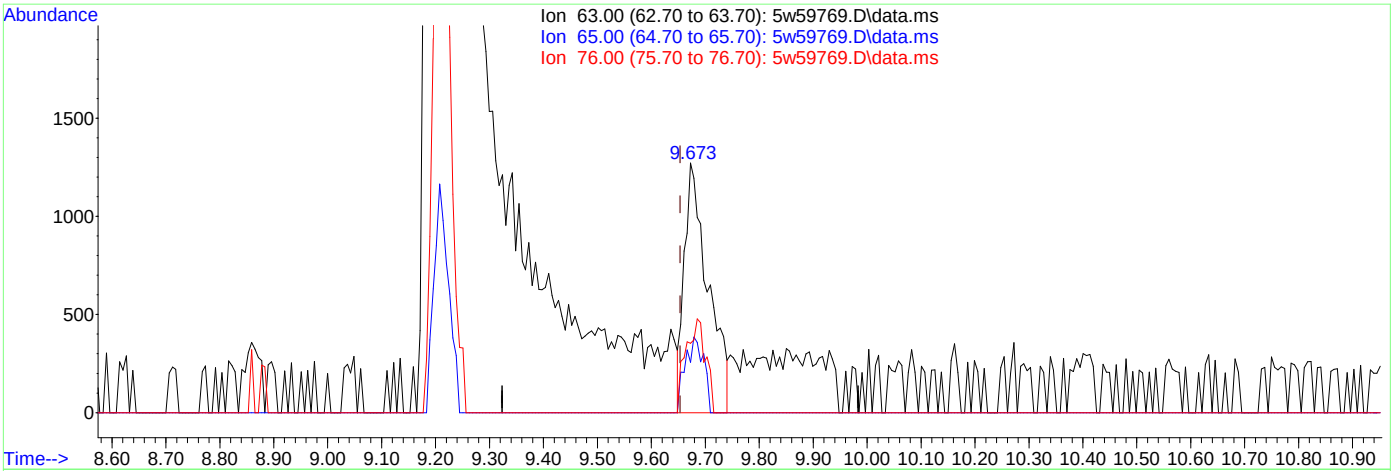
response 7133

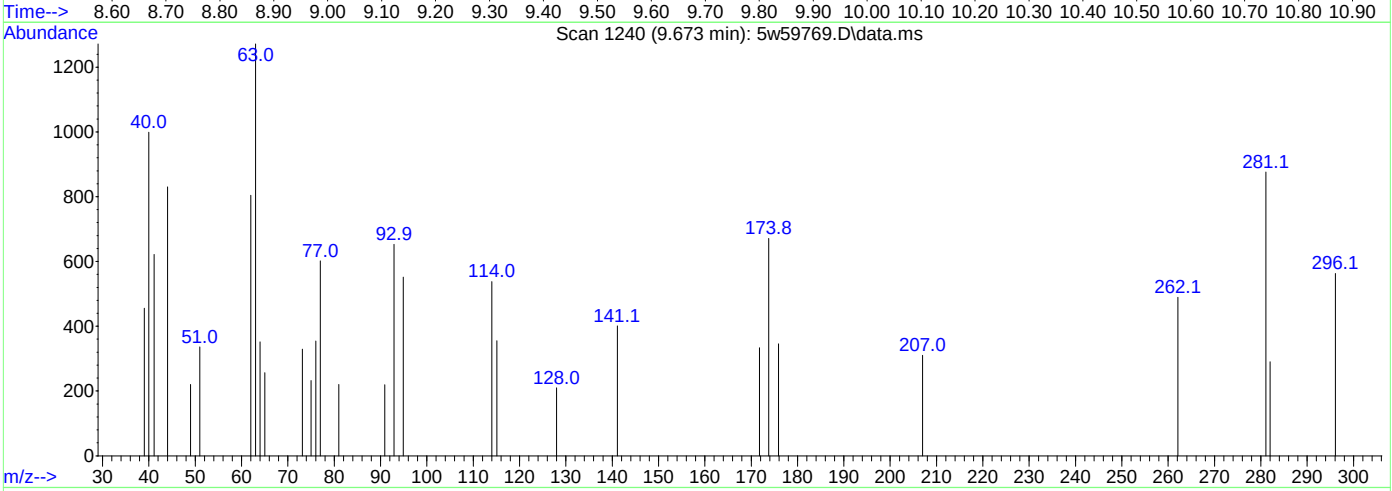
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	12.81
76.00	41.50	17.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(56) 1,2-DICHLOROPROPANE

9.673min (+0.019) 0.06PPBV m

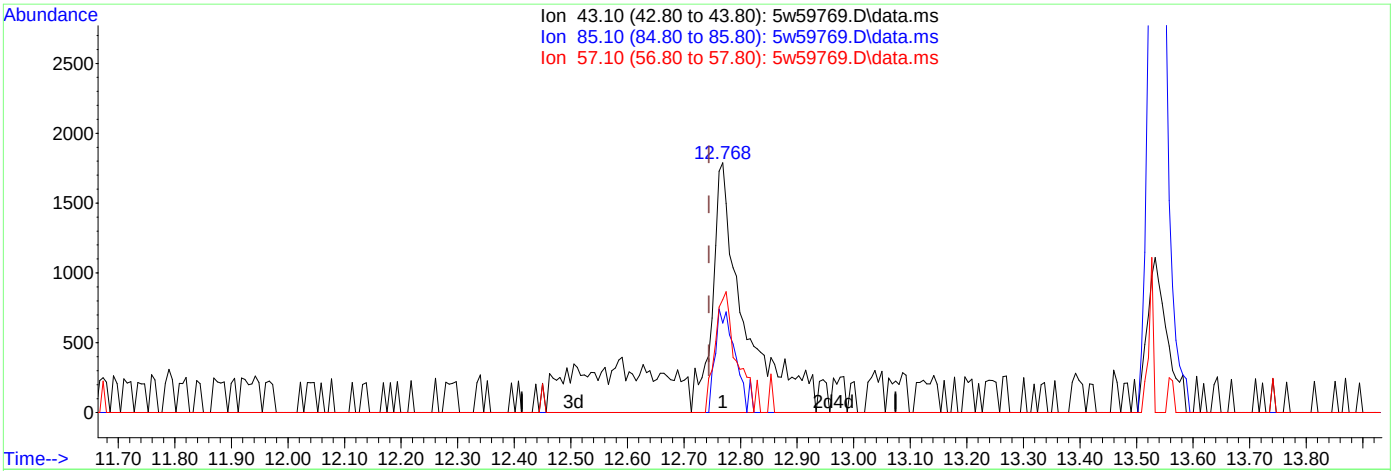
response 3887

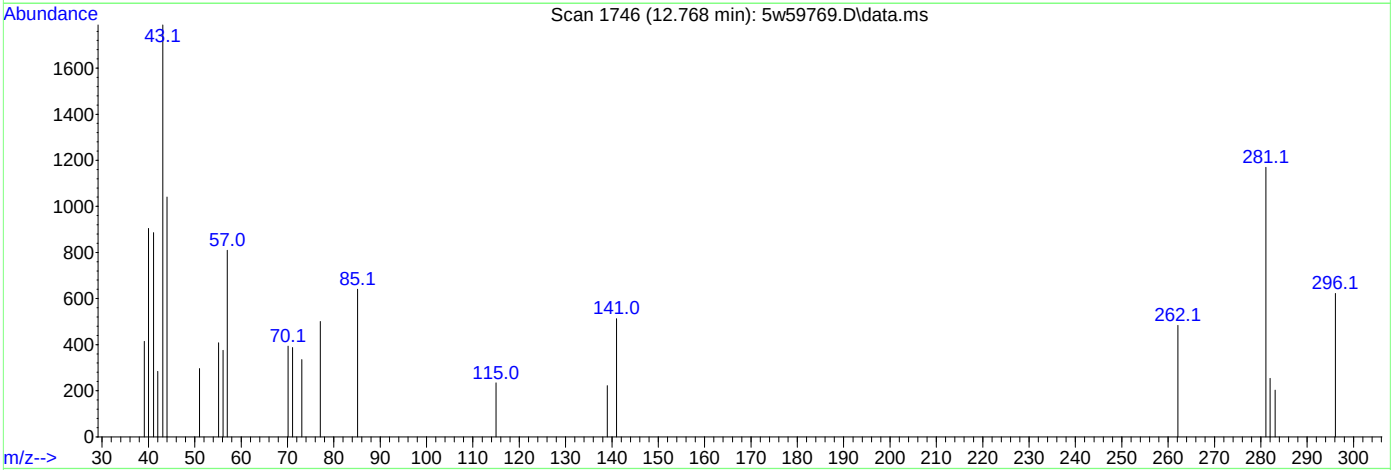
Ion	Exp%	Act%
63.00	100	100
65.00	30.50	23.51
76.00	41.50	31.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.08PPBV

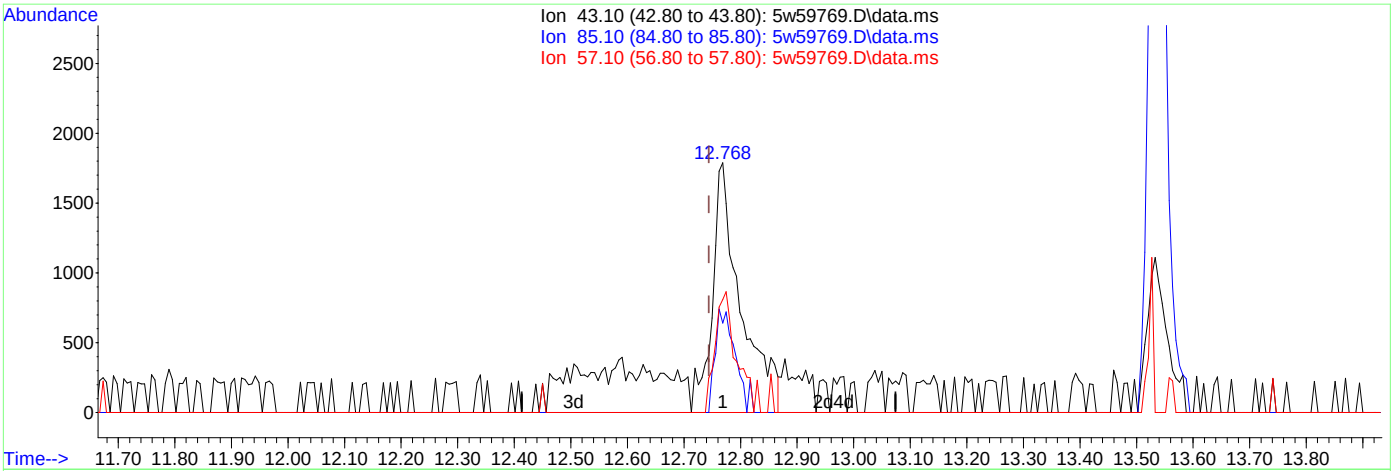
response 7210

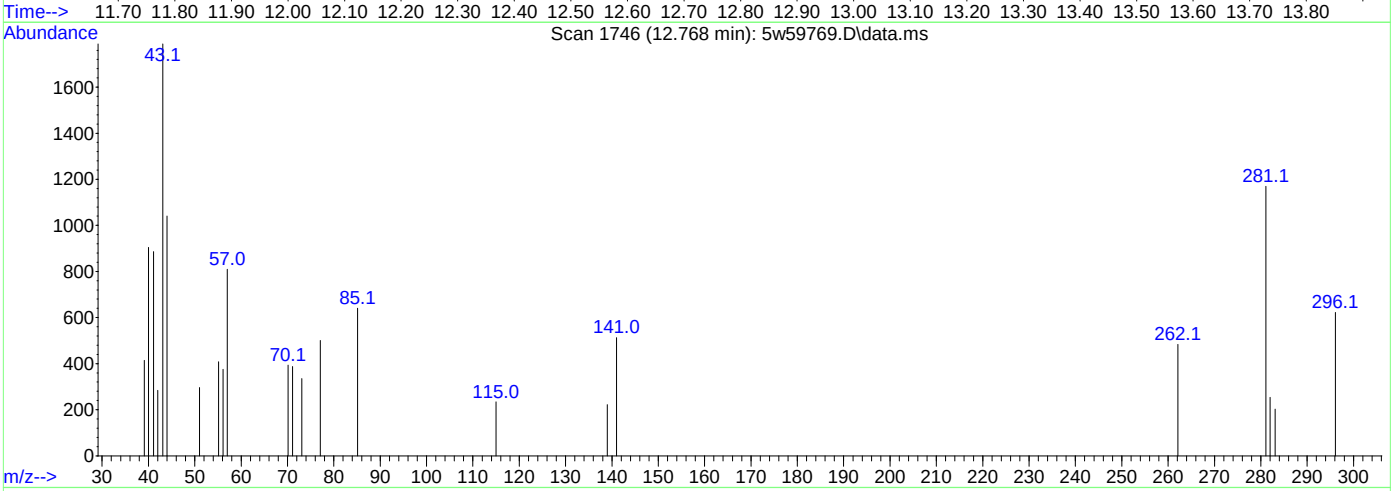
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	25.34
57.10	43.70	32.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(76) OCTANE

12.768min (+0.024) 0.07PPBV m

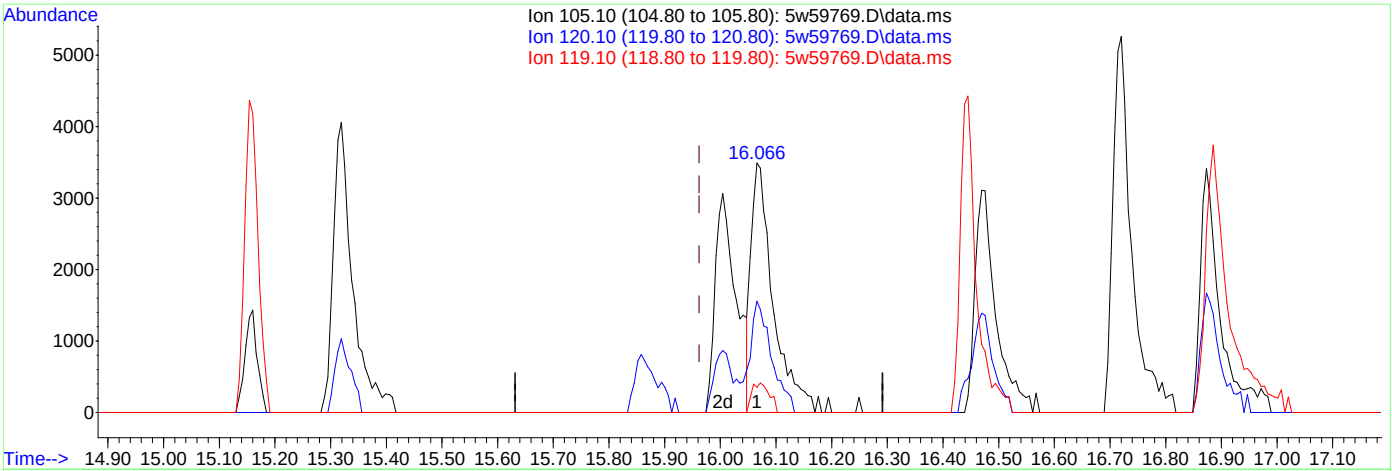
response 6243

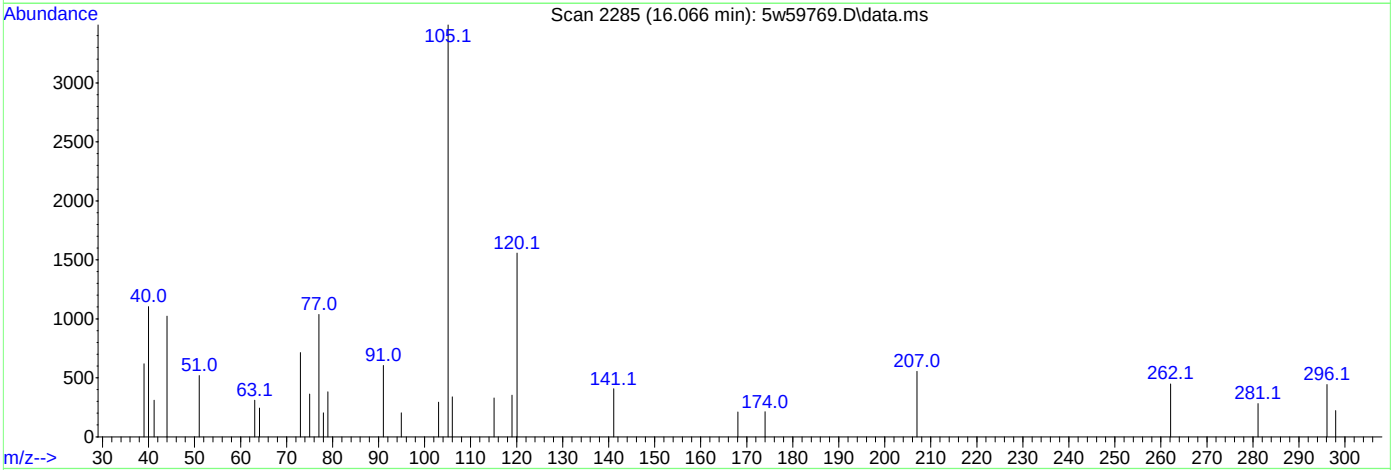
Ion	Exp%	Act%
43.10	100	100
85.10	44.60	29.26
57.10	43.70	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.066min (+0.104) 0.05PPBV

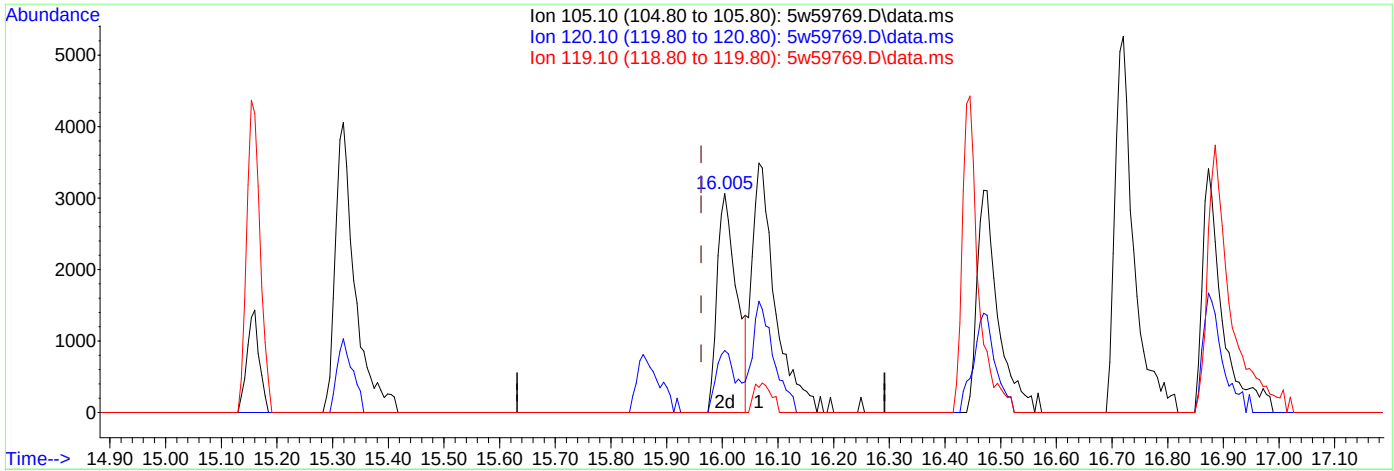
response 9673

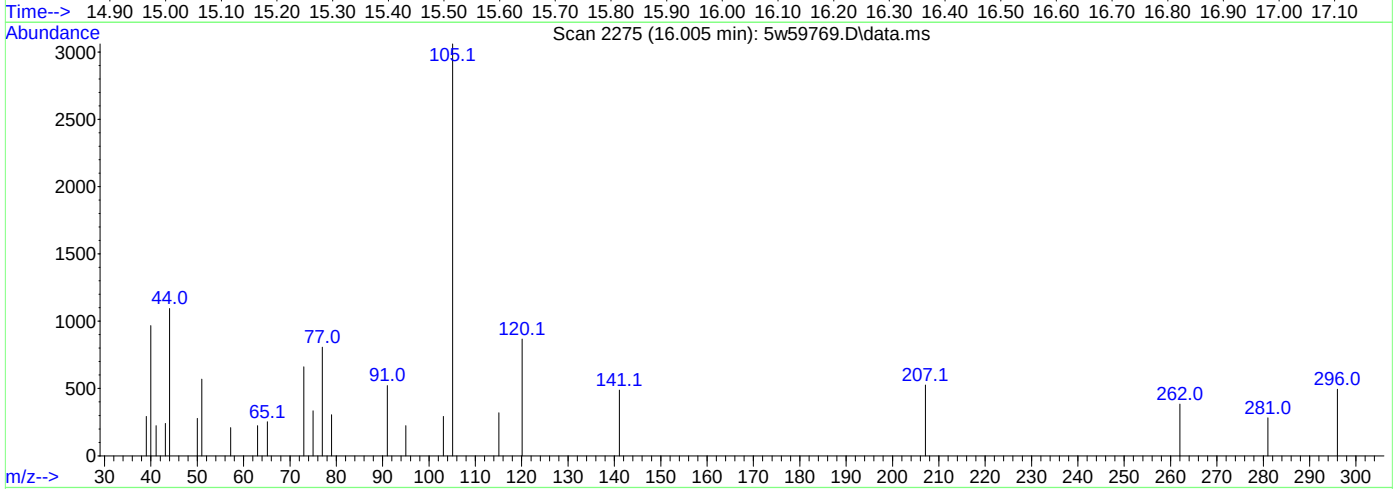
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	42.57
119.10	2.30	9.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(92) 4-ETHYLTOLUENE

16.005min (+0.043) 0.04PPBV m

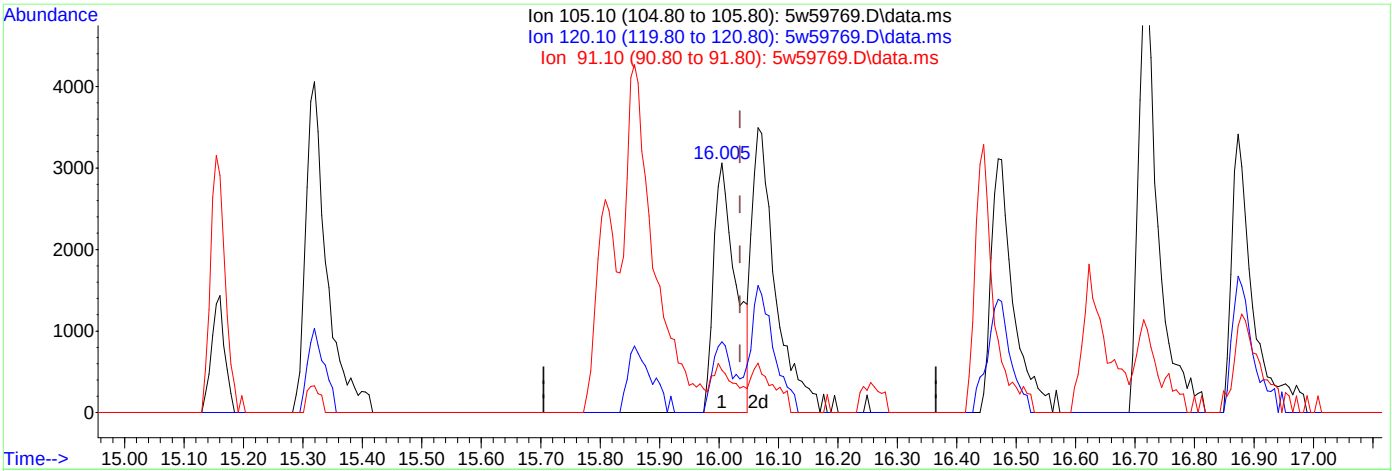
response 7489

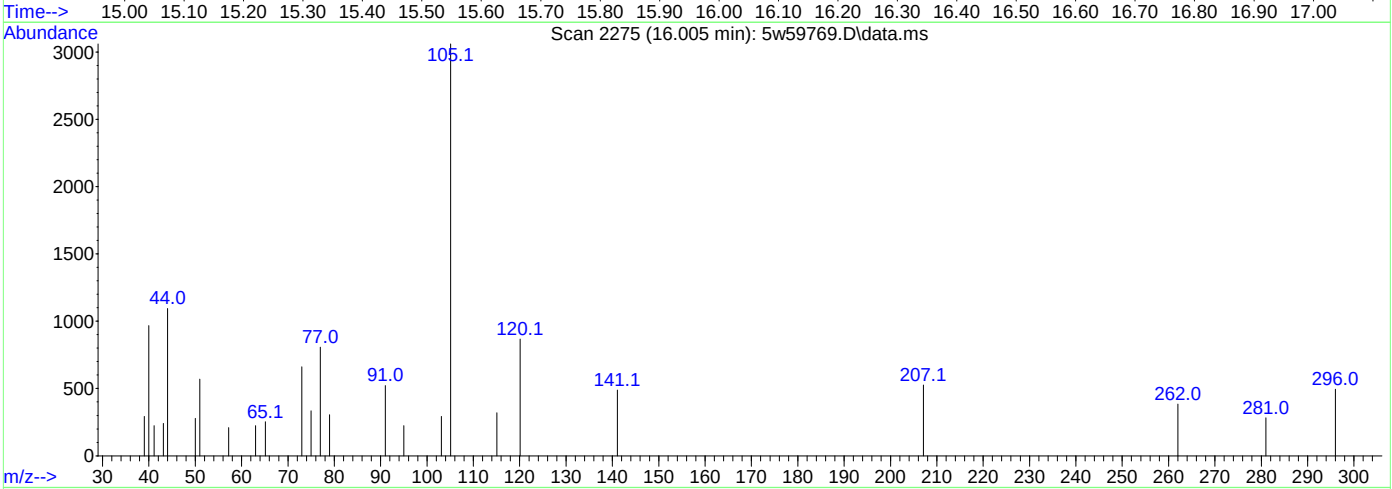
Ion	Exp%	Act%
105.10	100	100
120.10	29.90	54.99
119.10	2.30	12.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.005min (-0.030) 0.04PPBV

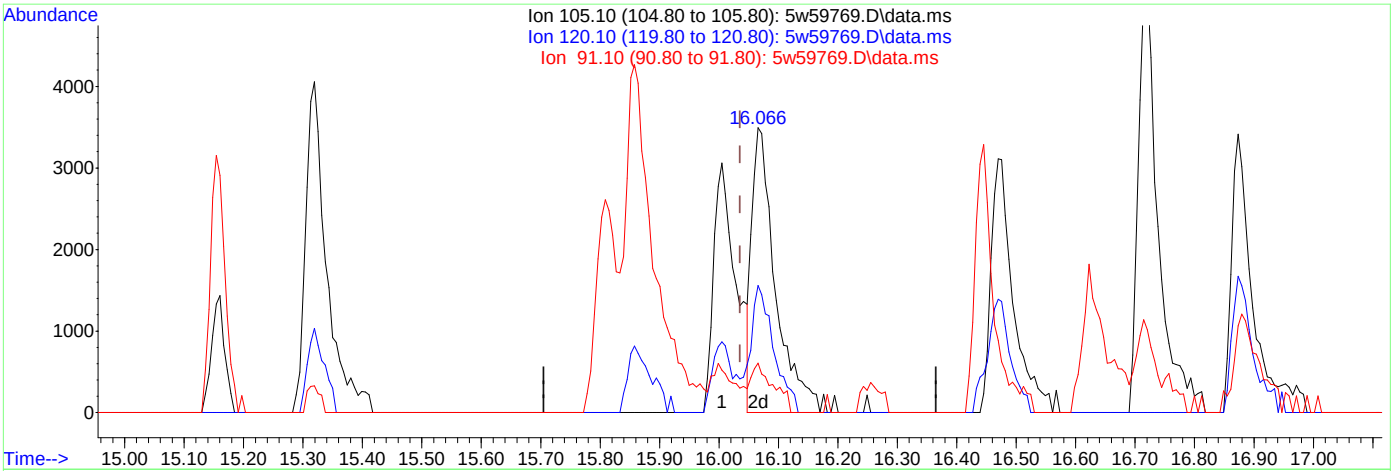
response 7976

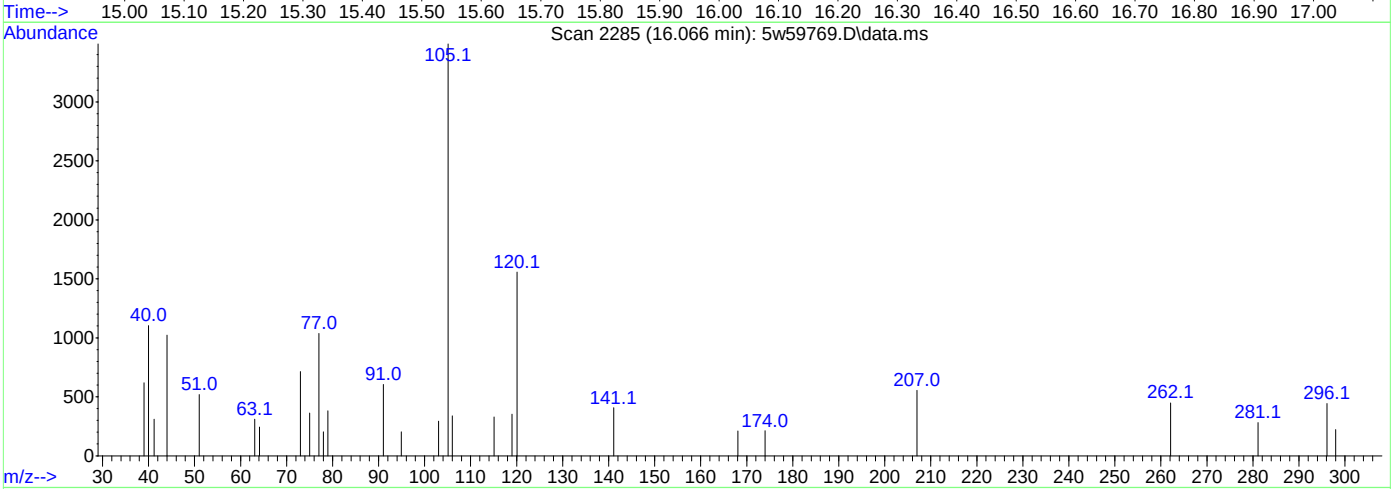
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	28.45
91.10	10.80	20.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(93) 1,3,5-TRIMETHYLBENZENE

16.066min (+0.031) 0.05PPBV m

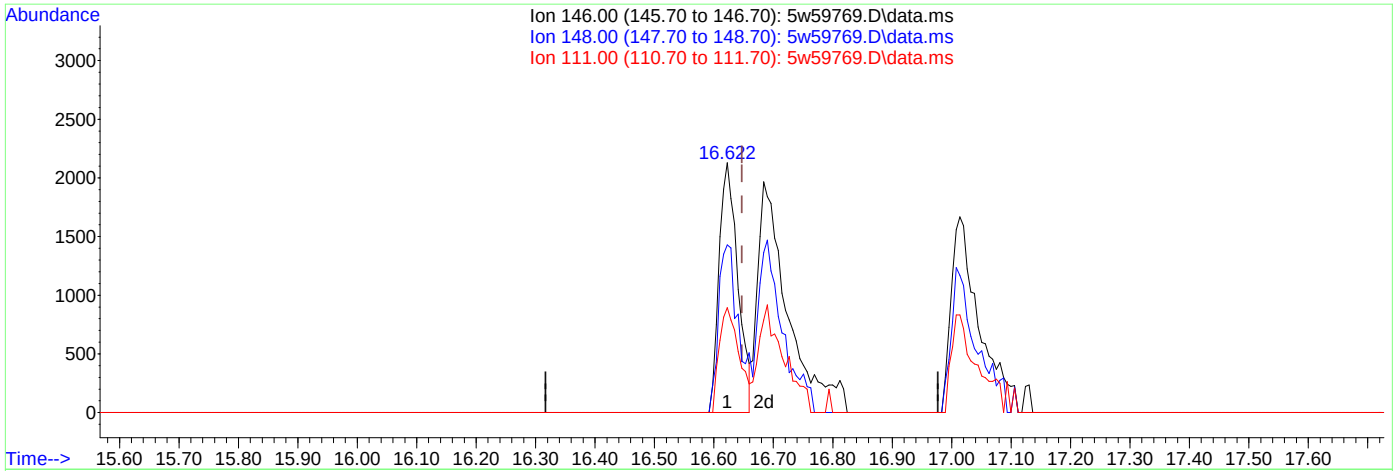
response 9751

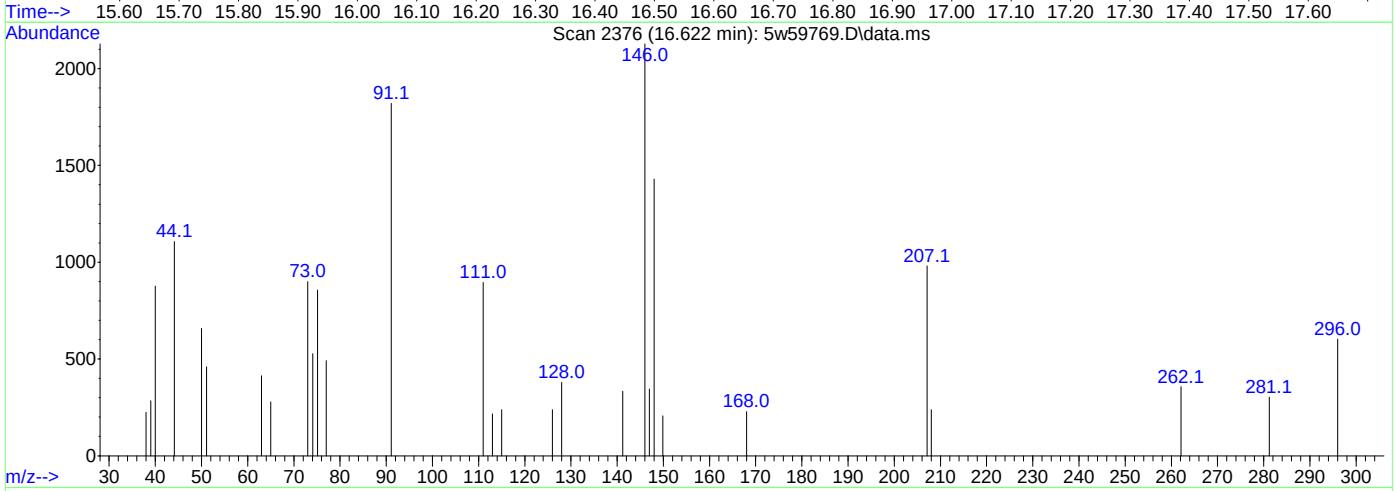
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	23.27
91.10	10.80	17.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.622min (-0.025) 0.03PPBV

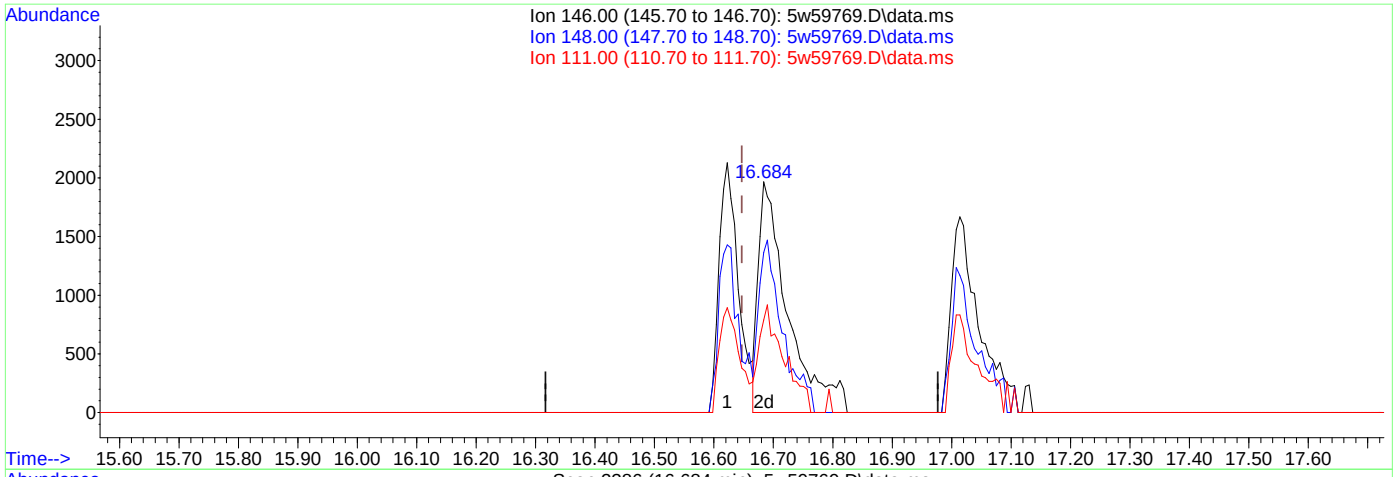
response 4669

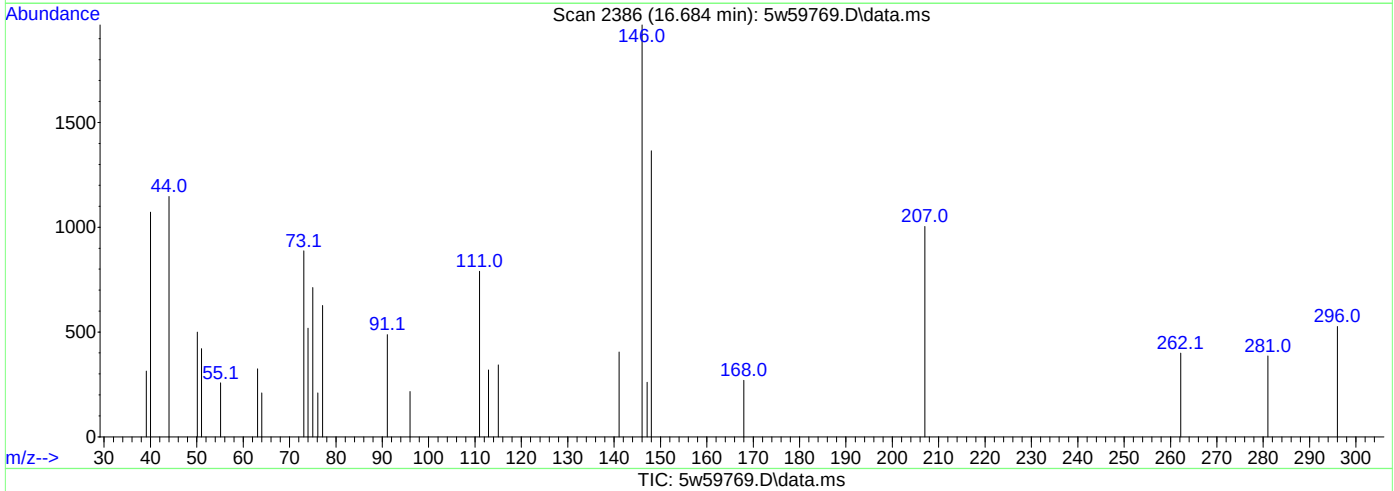
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	73.29
111.00	36.70	44.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(99) p-DICHLOROBENZENE

16.684min (+0.037) 0.05PPBV m

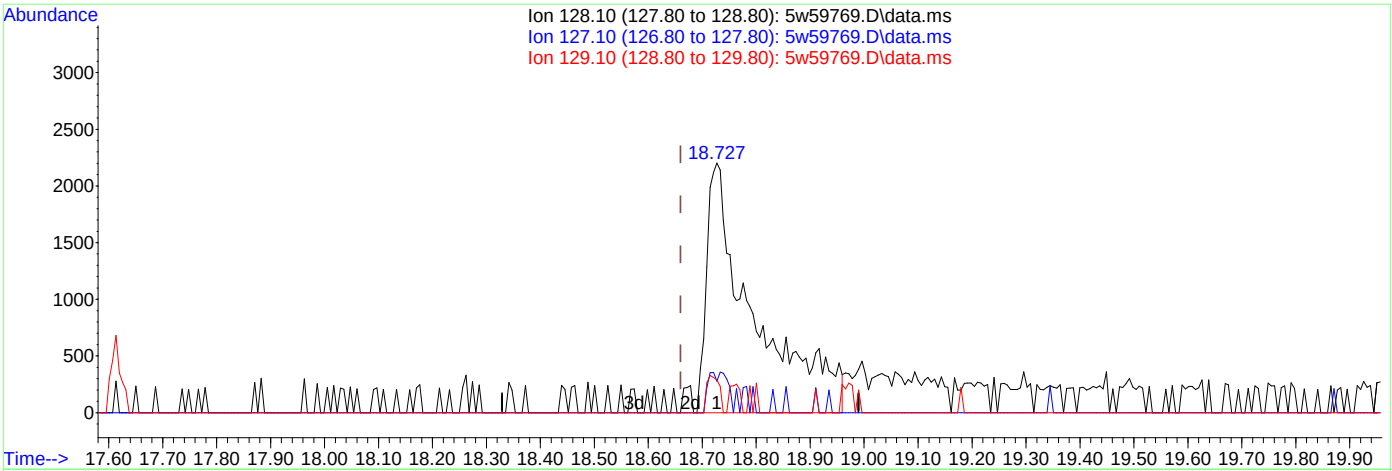
response 6829

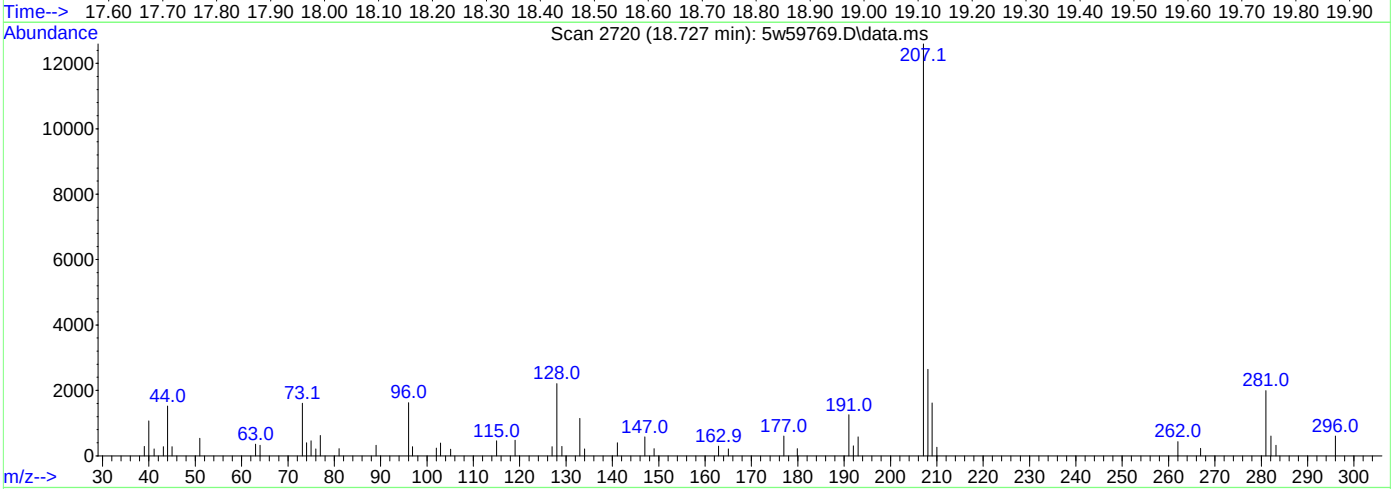
Ion	Exp%	Act%
146.00	100	100
148.00	64.60	50.11
111.00	36.70	30.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.05PPBV

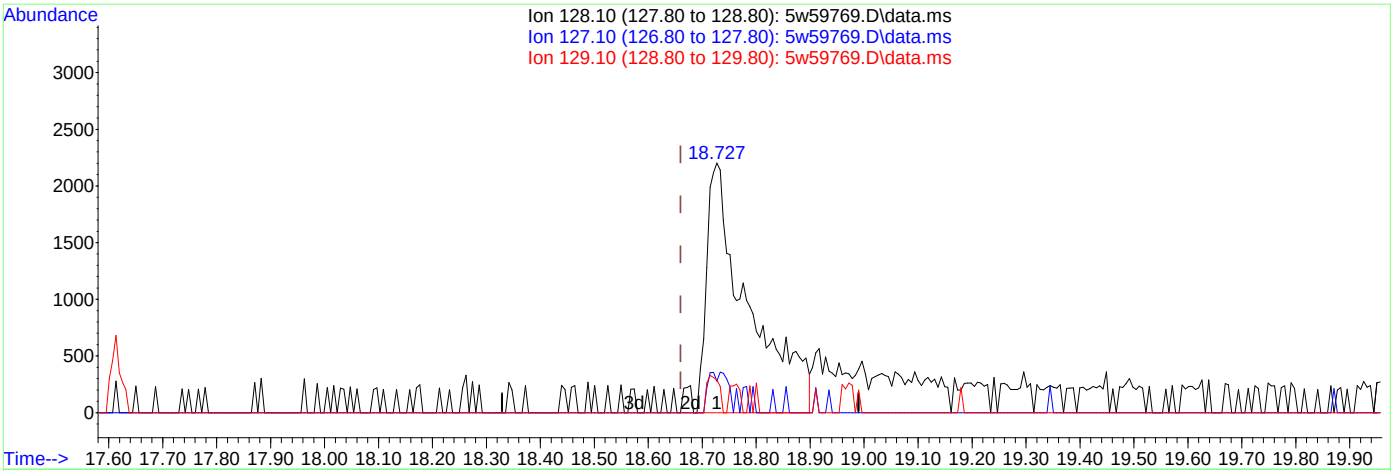
response 13130

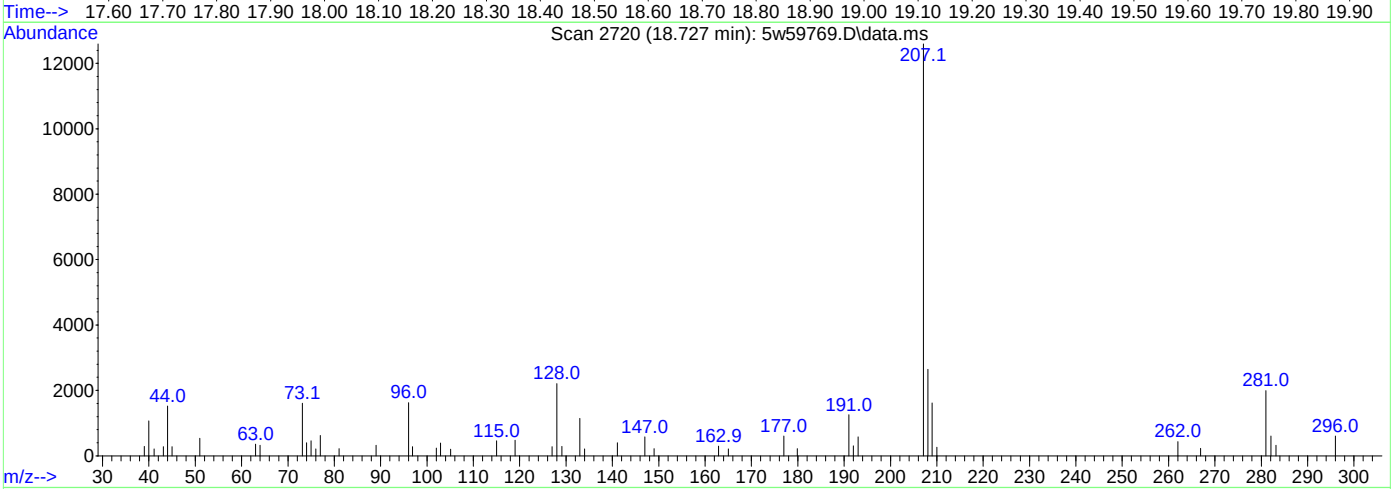
Ion	Exp%	Act%
128.10	100	100
127.10	13.30	6.81
129.10	11.40	3.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(108) NAPHTHALENE

18.727min (+0.067) 0.04PPBV m

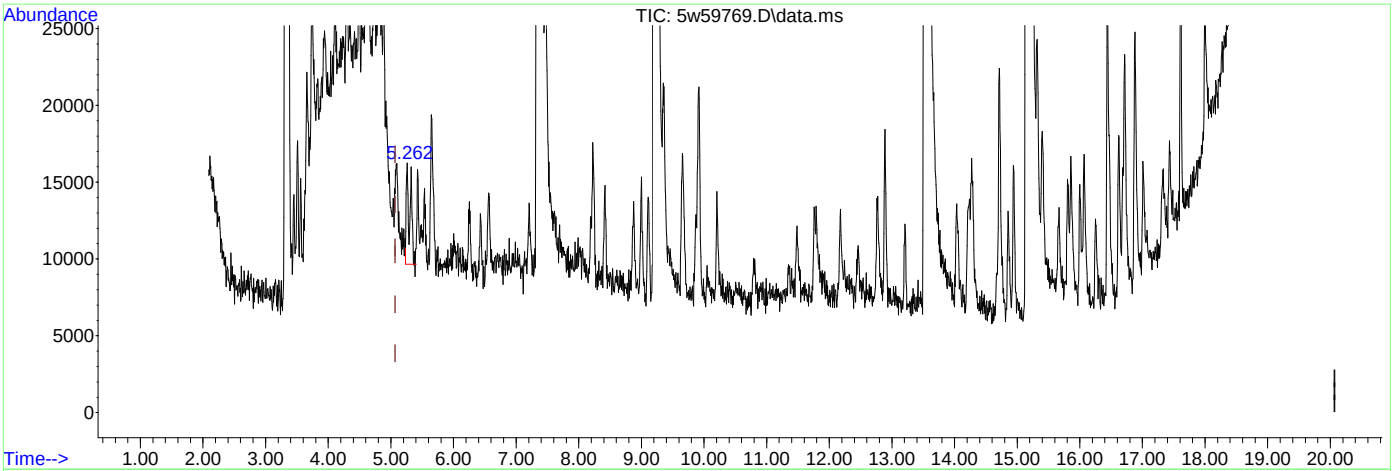
response 11614

Ion	Exp%	Act%
128.10	100	100
127.10	13.30	7.70
129.10	11.40	4.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.262min (+0.190) 0.10PPBV

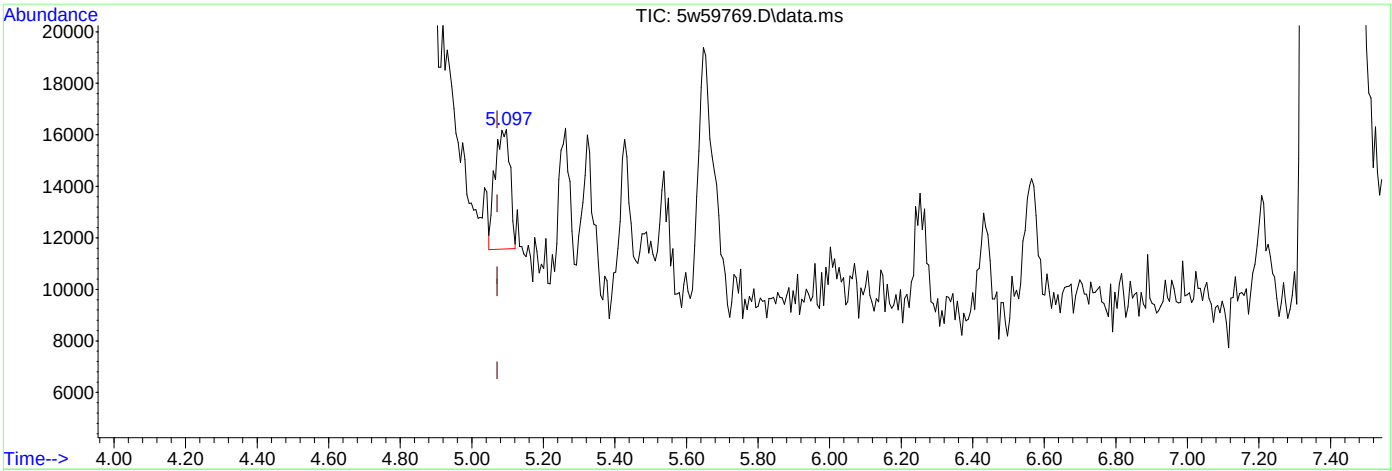
response 28223

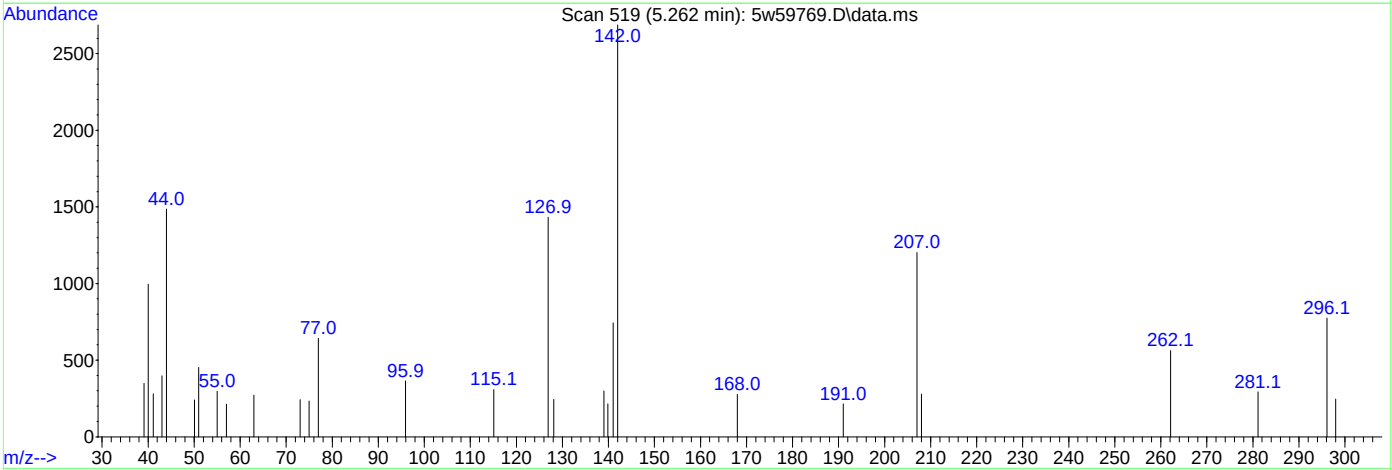
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:53:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





(110) TVHC as equiv Pentane

5.097min (+0.025) 0.05PPBV m

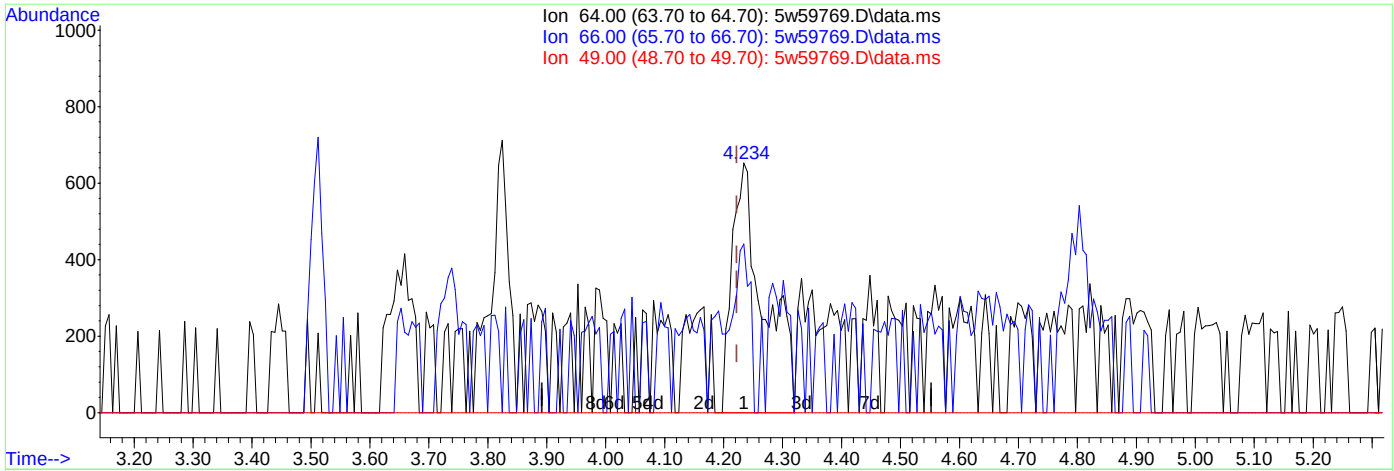
response 13430

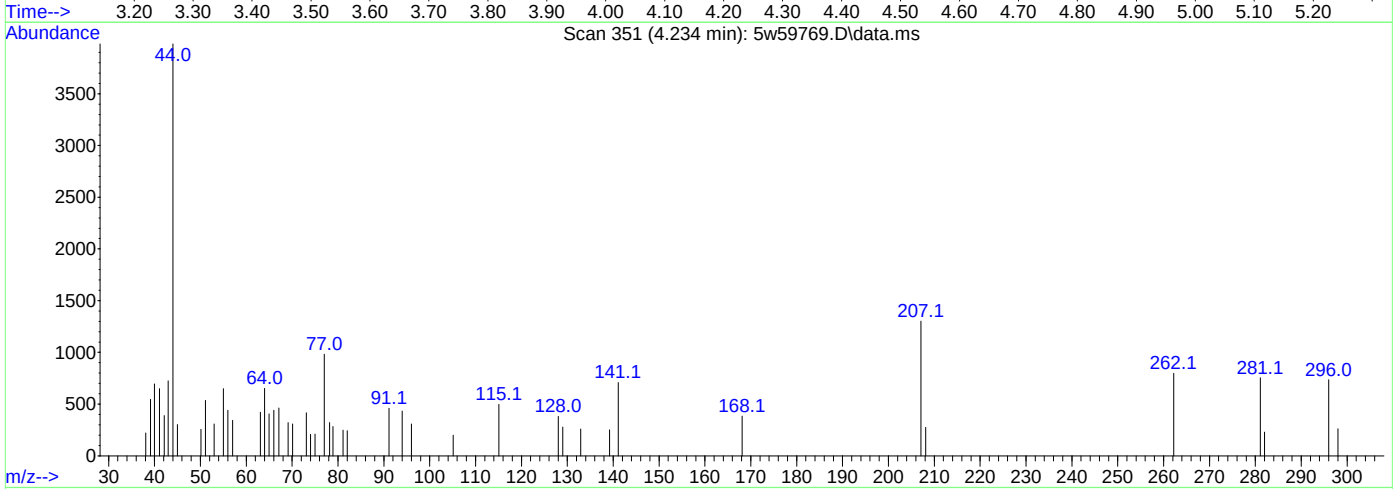
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.11PPBV

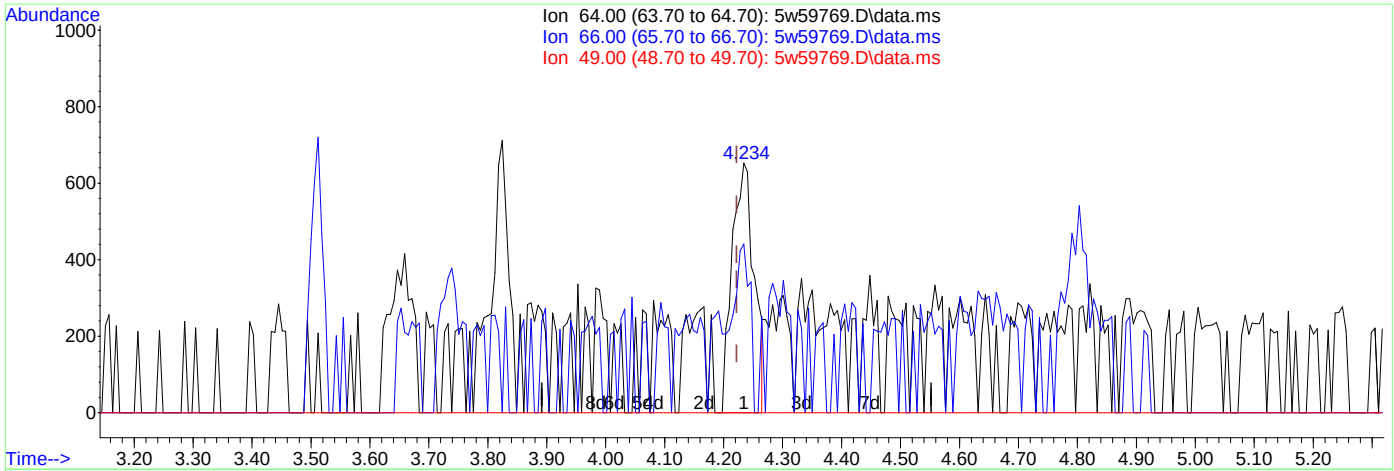
response 2438

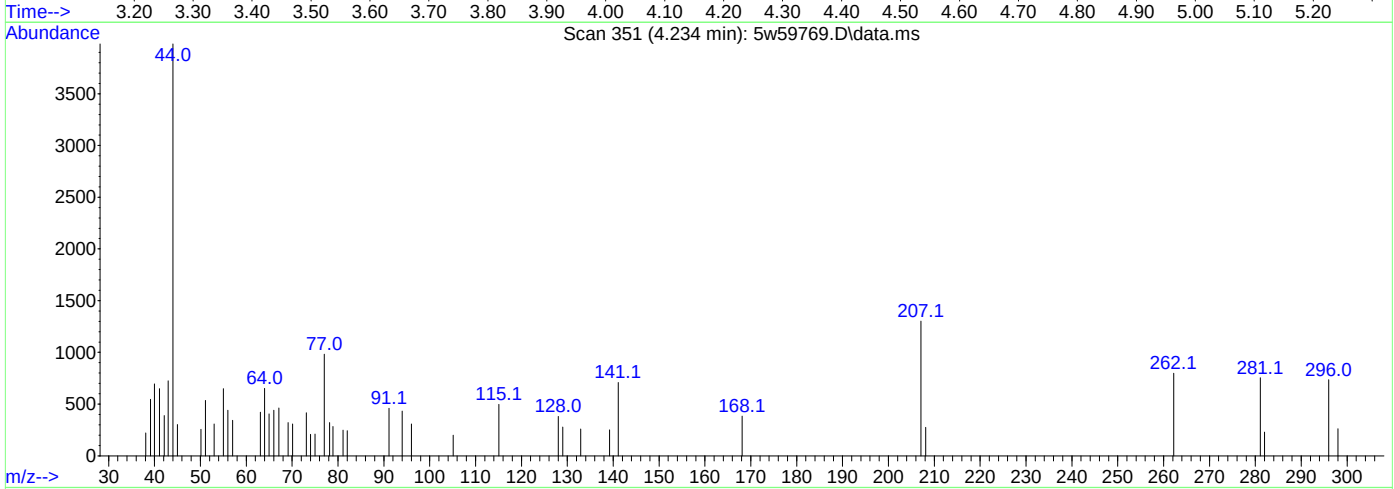
Ion	Exp%	Act%
64.00	100	100
66.00	33.10	31.58
49.00	25.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59769.D
Acq On : 6 Nov 2025 10:35 pm
Operator : benk
Sample : ic2292-0.04
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 14:00:06 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:52:47 2025
Response via : Initial Calibration





TIC: 5w59769.D\data.ms

(15) CHLOROETHANE

4.234min (+0.012) 0.08PPBV m

response 1697

Ion	Exp%	Act%
64.00	100	100
66.00	33.10	45.37
49.00	25.30	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	483296	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2143191	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1063437	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	486994	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1424858	10.91	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.10%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	3221	0.10	PPBV		95
3) FREON 152A	3.445	65	4358	0.13	PPBV		89
4) CHLORODIFLUOROMETHANE	3.482	67	1589	0.10	PPBV		90
5) CHLOROTRIFLUOROETHENE	3.506	116	7707	0.10	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	15163	0.11	PPBV		95
7) PROPYLENE	3.506	41	4519	0.13	PPBV	#	69
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	13862	0.13	PPBV		96
9) FREON 114	3.732	85	15211	0.12	PPBV		98
10) CHLOROMETHANE	3.665	52	1901	0.13	PPBV	#	75
11) VINYL CHLORIDE	3.818	62	4992	0.11	PPBV		78
12) 1,3-BUTADIENE	3.916	54	3400	0.13	PPBV		93
13) n-BUTANE	3.947	43	5567	0.13	PPBV	#	95
14) BROMOMETHANE	4.106	94	5574	0.12	PPBV		88
15) CHLOROETHANE	4.228	64	3723	0.18	PPBV		72
16) DICHLOROFLUOROMETHANE	4.289	67	10972	0.11	PPBV		90
17) ACETONITRILE	4.522	41	2670m	0.10	PPBV		
18) ACROLEIN	4.601	56	1642m	0.11	PPBV		
19) FREON 123	4.595	83	13808m	0.13	PPBV		
20) FREON 123A	4.638	117	8167	0.13	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.797	101	13248	0.11	PPBV		89
22) ISOPROPYL ALCOHOL	4.932	45	12850	0.15	PPBV		84
23) ACETONE	4.724	58	3503	0.18	PPBV		87
24) PENTANE	5.072	42	6510	0.15	PPBV	#	42
25) IODOMETHANE	5.256	142	16474	0.11	PPBV		98
26) 1,1-DICHLOROETHYLENE	5.317	96	6043	0.12	PPBV		88
27) CARBON DISULFIDE	5.672	76	15443	0.12	PPBV		89
28) ETHANOL	4.344	45	5592	0.26	PPBV		87
29) BROMOETHENE	4.485	106	5356	0.11	PPBV		95
30) ACRYLONITRILE	5.091	52	3869	0.12	PPBV	#	91
31) METHYLENE CHLORIDE	5.427	84	6090	0.14	PPBV		98
32) 3-CHLOROPROPENE	5.531	76	2581	0.11	PPBV	#	52
33) FREON 113	5.647	151	8991	0.10	PPBV		97
34) TRANS-1,2-DICHLOROETHY...	6.247	96	6117	0.12	PPBV		82
35) TERTIARY BUTYL ALCOHOL	5.476	59	9217	0.09	PPBV		76
36) METHYL TERTIARY BUTYL ...	6.547	73	15796	0.12	PPBV		87
37) TETRAHYDROFURAN	7.966	72	1469	0.08	PPBV	#	45
38) HEXANE	7.385	57	9533	0.13	PPBV		83
40) 1,1-DICHLOROETHANE	6.430	63	12904	0.14	PPBV		91
41) METHYL ETHYL KETONE	6.920	72	956m	0.05	PPBV		
42) cis-1,2-DICHLOROETHYLENE	7.207	96	6979	0.13	PPBV		77
43) DIISOPROPYL ETHER	7.452	59	1846	0.09	PPBV	#	39
44) ETHYL ACETATE	7.544	61	434m	0.03	PPBV		
45) METHYL ACRYLATE	7.507	55	6719m	0.08	PPBV		
46) CHLOROFORM	7.483	83	11842	0.11	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	9616	0.11	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	11905	0.11	PPBV		97
49) CARBON TETRACHLORIDE	9.000	117	12586	0.10	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

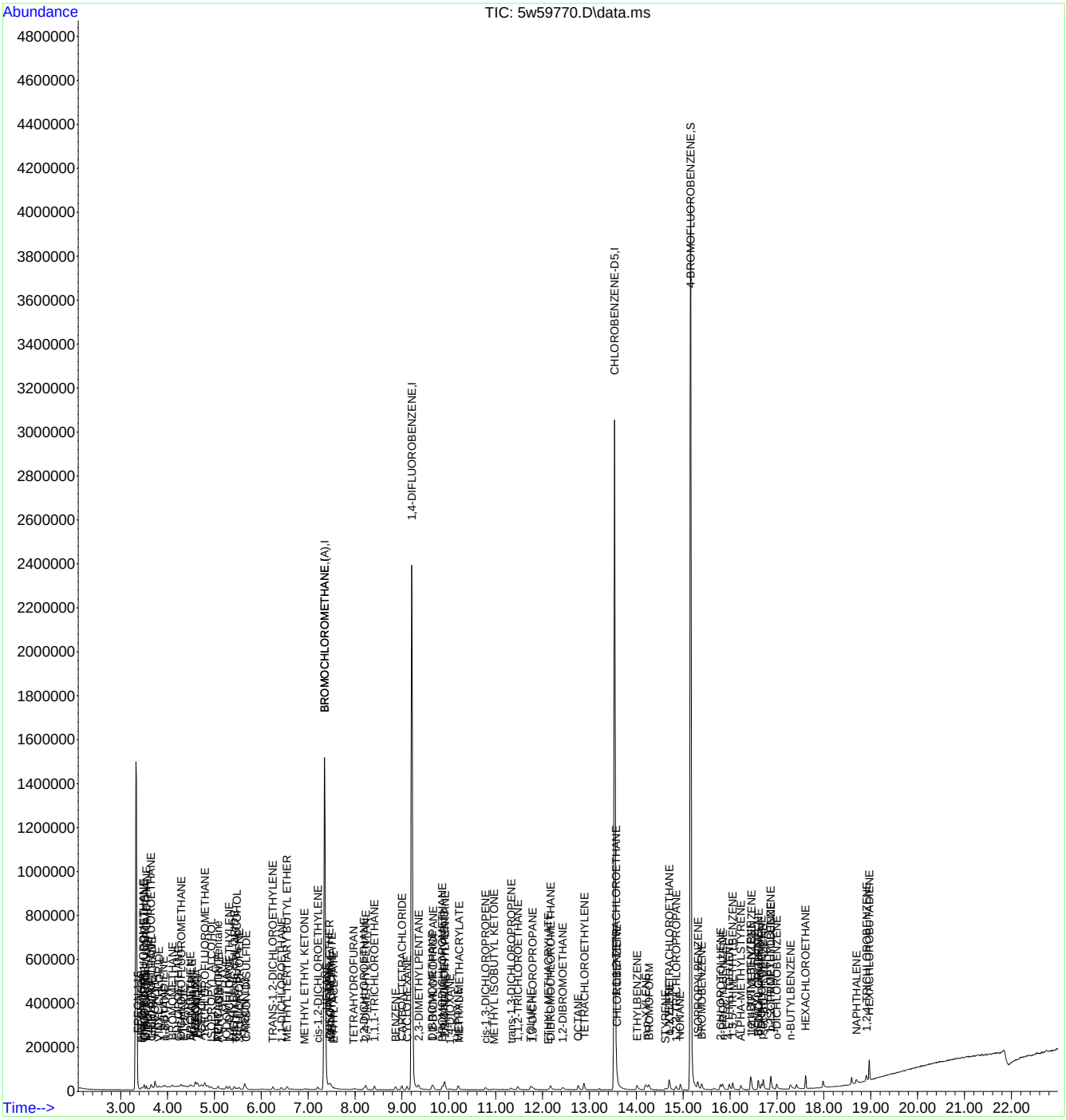
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	8.186	62	7761	0.10	PPBV		85
52)	BENZENE	8.865	78	15430	0.11	PPBV		91
53)	CYCLOHEXANE	9.110	84	5905	0.10	PPBV		90
54)	2,3-DIMETHYLPENTANE	9.361	71	2989	0.10	PPBV		89
55)	TRICHLOROETHYLENE	9.899	95	7303	0.10	PPBV		98
56)	1,2-DICHLOROPROPANE	9.667	63	9099	0.15	PPBV		85
57)	DIBROMOMETHANE	9.642	174	8479	0.11	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	12436	0.10	PPBV		94
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	24769	0.11	PPBV		93
61)	1,4-DIOXANE	10.028	88	3670	0.11	PPBV	#	1
62)	HEPTANE	10.199	43	10112	0.13	PPBV		90
63)	METHYL METHACRYLATE	10.217	69	3857	0.08	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.964	58	2182	0.05	PPBV	#	26
65)	cis-1,3-DICHLOROPROPENE	10.780	75	10824	0.11	PPBV		90
66)	TOLUENE	11.747	92	10446	0.10	PPBV		90
67)	1,3-DICHLOROPROPANE	11.789	76	9064	0.10	PPBV	#	90
68)	trans-1,3-DICHLOROPROPENE	11.331	75	9955	0.11	PPBV		88
69)	1,1,2-TRICHLOROETHANE	11.471	83	5972	0.10	PPBV		90
72)	ETHYL METHACRYLATE	12.120	69	5758	0.08	PPBV	#	65
73)	TETRACHLOROETHYLENE	12.891	164	8344	0.12	PPBV		90
74)	DIBROMOCHLOROMETHANE	12.169	129	13809	0.11	PPBV		97
75)	1,2-DIBROMOETHANE	12.426	107	10727	0.11	PPBV	#	98
76)	OCTANE	12.756	43	11856	0.13	PPBV		95
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	8635	0.11	PPBV		99
78)	CHLOROBENZENE	13.588	112	15456	0.12	PPBV	#	49
79)	ETHYLBENZENE	14.016	91	24398	0.12	PPBV		95
80)	m,p-XYLENE	14.200	106	17695	0.22	PPBV		94
81)	o-XYLENE	14.701	106	8363	0.11	PPBV		88
82)	STYRENE	14.616	104	12755	0.11	PPBV		84
83)	NONANE	14.934	43	13253	0.14	PPBV		94
84)	BROMOFORM	14.267	173	12500	0.10	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.701	83	15380	0.12	PPBV		96
87)	1,2,3-TRICHLOROPROPANE	14.848	75	13012	0.13	PPBV		86
88)	ISOPROPYLBENZENE	15.313	105	26261	0.12	PPBV		98
89)	BROMOBENZENE	15.393	77	13681	0.12	PPBV		90
90)	2-CHLOROTOLUENE	15.797	126	6870	0.11	PPBV		79
91)	n-PROPYLBENZENE	15.845	120	6334	0.10	PPBV		96
92)	4-ETHYLTOLUENE	15.980	105	22792	0.11	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.054	105	24501	0.13	PPBV		92
94)	ALPHA-METHYLSTYRENE	16.231	118	9018	0.09	PPBV		93
95)	tert-BUTYLBENZENE	16.439	134	4502	0.11	PPBV		89
96)	1,2,4-TRIMETHYLBENZENE	16.457	105	21144	0.12	PPBV		95
97)	m-DICHLOROBENZENE	16.604	146	14099	0.10	PPBV		98
98)	BENZYL CHLORIDE	16.598	91	15140	0.09	PPBV		92
99)	p-DICHLOROBENZENE	16.671	146	17844	0.12	PPBV		99
100)	sec-BUTYLBENZENE	16.708	134	5680	0.11	PPBV	#	86
101)	1,2,3-TRIMETHYLBENZENE	16.861	105	23306	0.12	PPBV		93
102)	p-ISOPROPYLTOLUENE	16.867	134	6197	0.11	PPBV	#	80
103)	o-DICHLOROBENZENE	16.996	146	15528	0.11	PPBV		97
104)	n-BUTYLBENZENE	17.289	134	5383	0.09	PPBV	#	64
105)	HEXACHLOROETHANE	17.607	117	10817	0.11	PPBV		96
106)	HEXACHLOROBUTADIENE	18.966	225	14991	0.12	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.910	180	13603	0.10	PPBV		93
108)	NAPHTHALENE	18.696	128	31596	0.11	PPBV		94
110)	TVHC as equiv Pentane	5.078	TIC	29029	0.10	PPBV		100

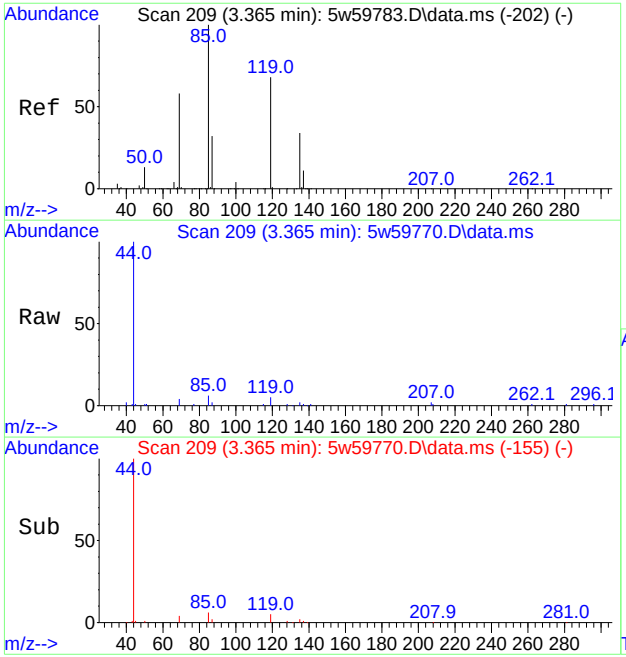
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:35:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration

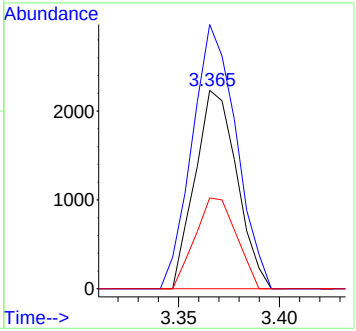


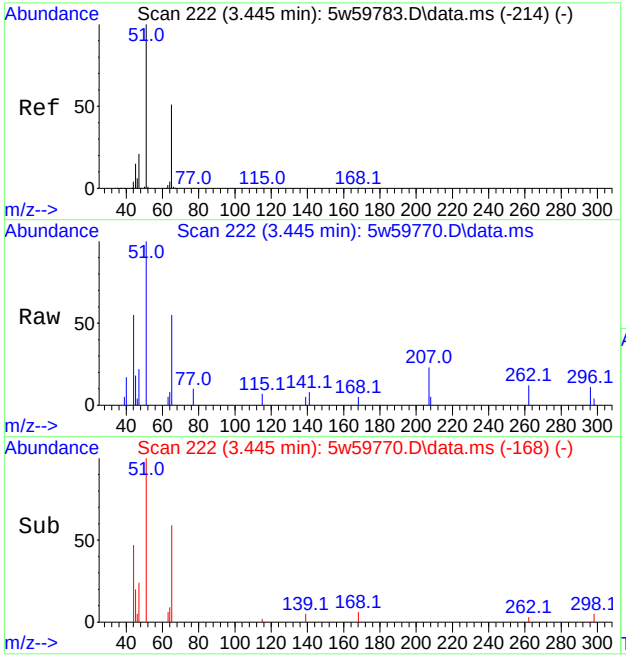


#2
FREON 115
Concen: 0.10 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:119 Resp: 3221

Ion	Ratio	Lower	Upper
119	100		
85	140.3	116.2	176.2
135	45.2	20.6	80.6

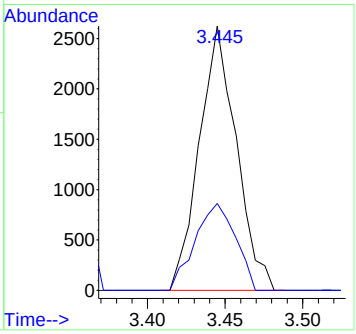


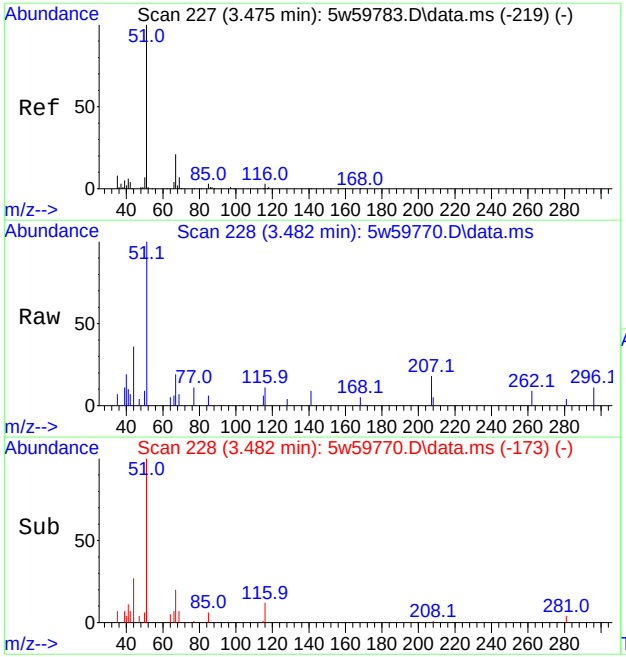


#3
FREON 152A
Concen: 0.13 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 4358

Ion	Ratio	Lower	Upper
65	100		
45	35.8	0.0	60.0

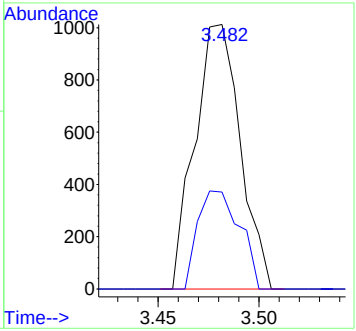


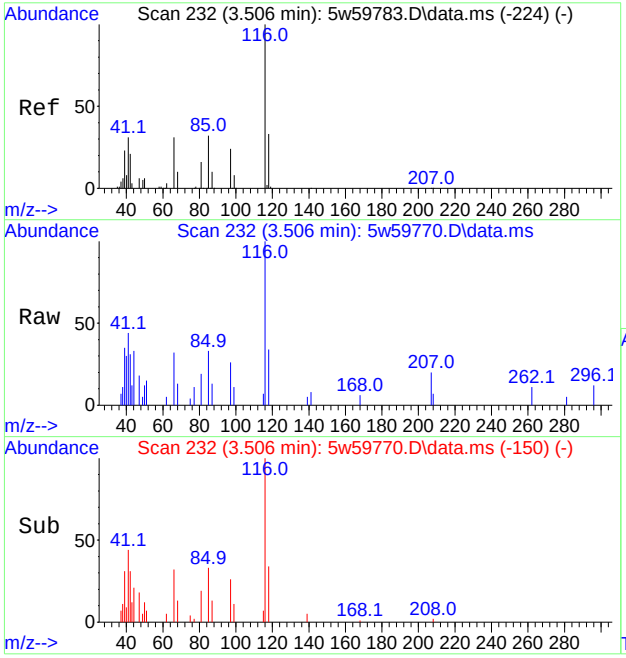


#4
CHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 1589

Ion	Ratio	Lower	Upper
67	100		
69	36.6	1.0	61.0

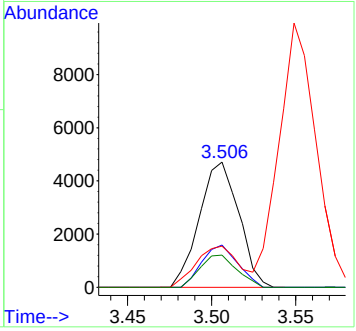


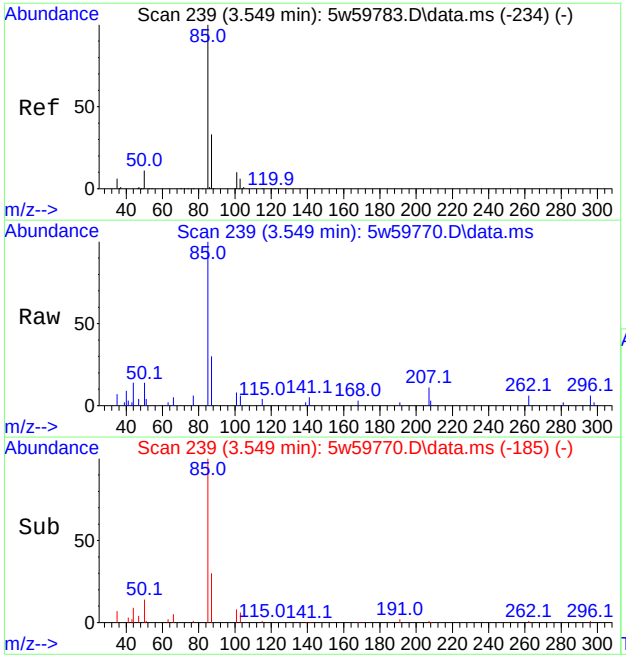


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:116 Resp: 7707

Ion	Ratio	Lower	Upper
116	100		
118	30.8	22.9	42.5
85	36.3	23.7	44.1
97	24.1	17.0	31.6

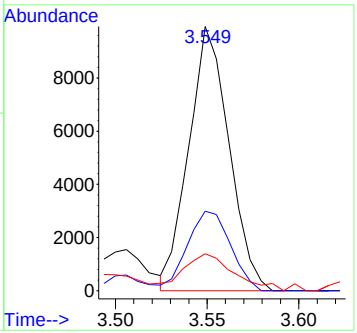


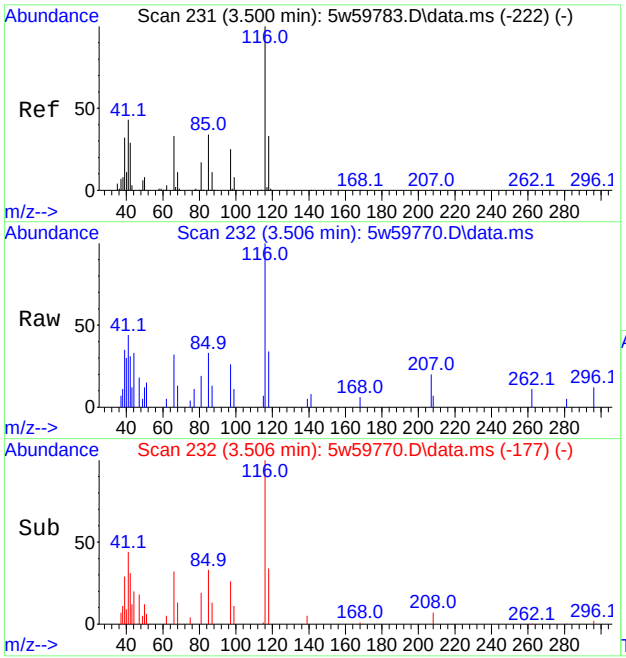


#6
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15163

Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.5	62.5
50	18.6	0.0	41.7

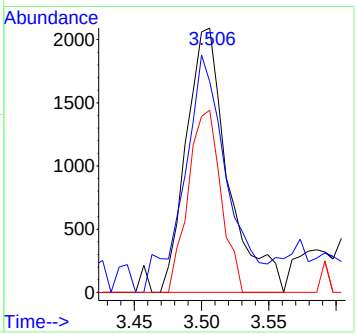


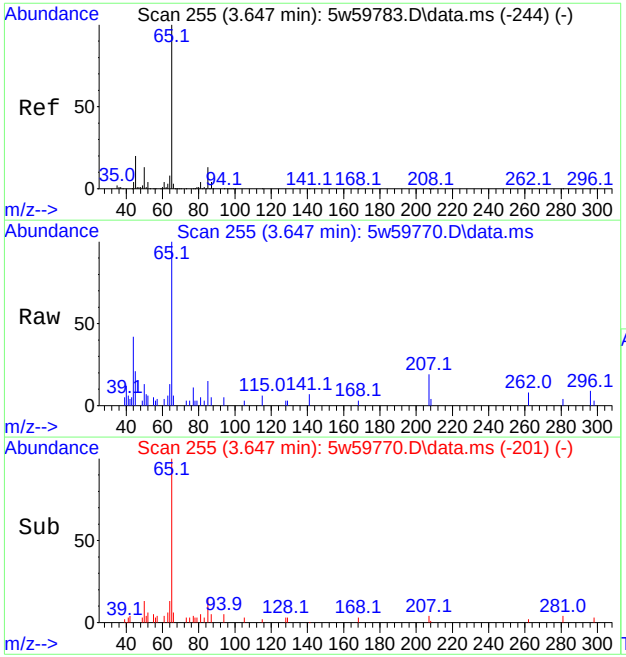


#7
PROPYLENE
Concen: 0.13 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 4519

Ion	Ratio	Lower	Upper
41	100		
39	113.7	45.1	105.1#
42	54.2	36.3	96.3

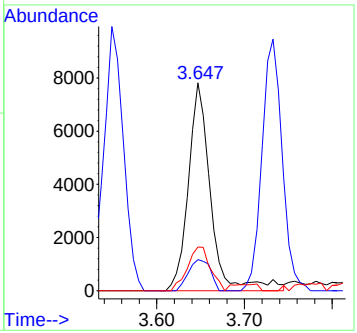


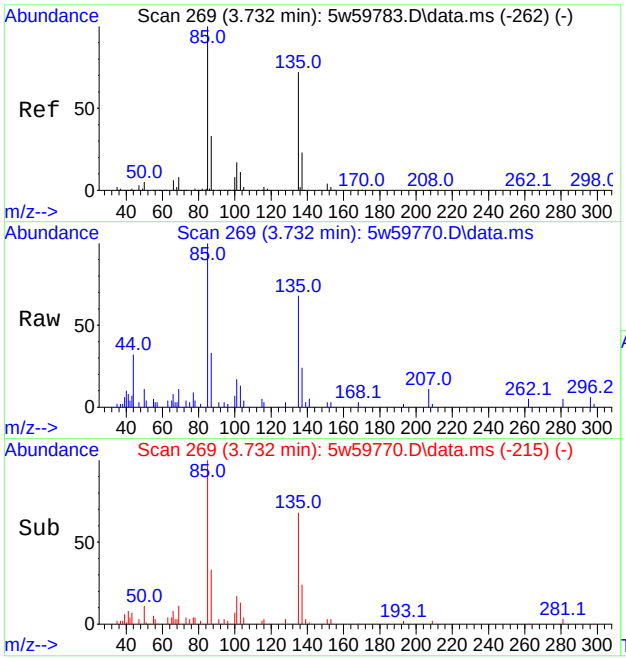


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.13 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 65 Resp: 13862

Ion	Ratio	Lower	Upper
65	100		
85	14.7	11.5	21.3
45	21.5	14.0	26.0

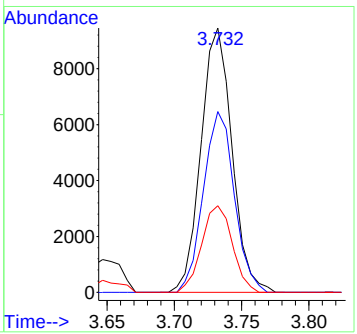


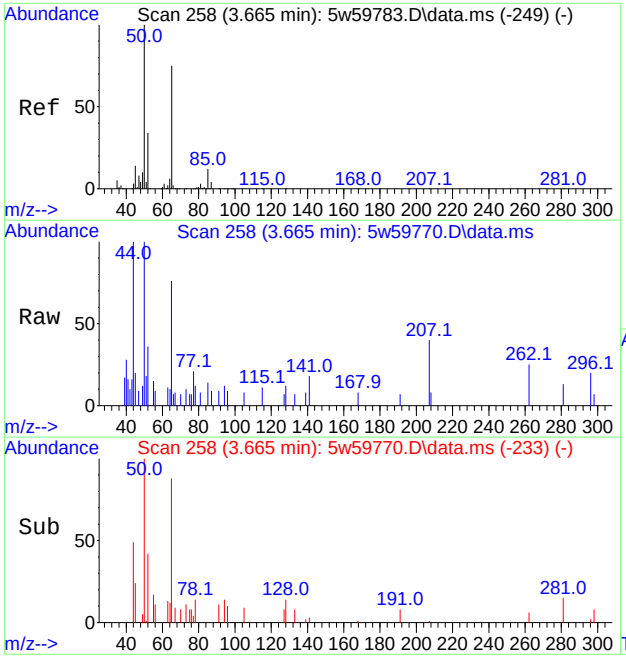


#9
FREON 114
Concen: 0.12 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 85 Resp: 15211

Ion	Ratio	Lower	Upper
85	100		
135	68.1	40.5	100.5
87	32.4	3.0	63.0

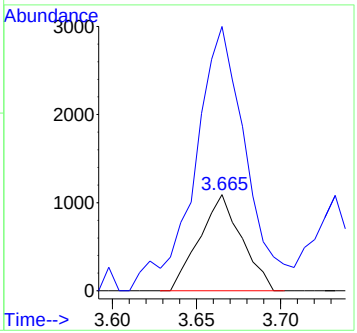


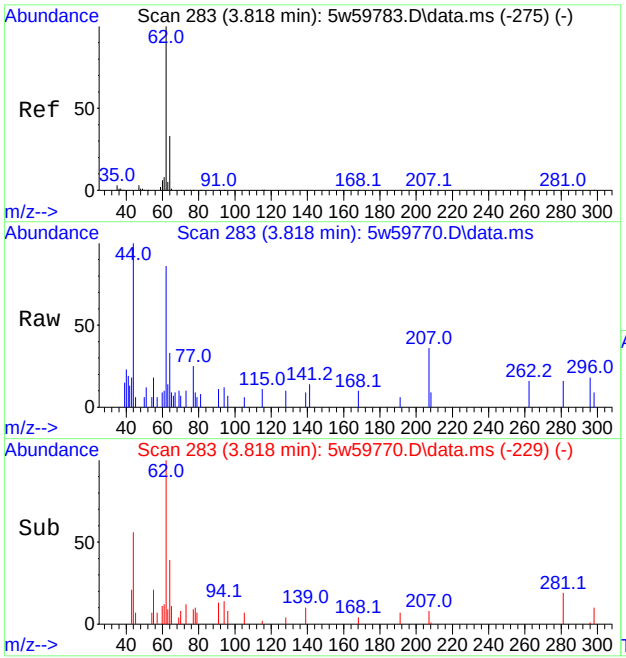


#10
CHLOROMETHANE
Concen: 0.13 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 1901

Ion	Ratio	Lower	Upper
52	100		
50	249.3	267.9	327.9#

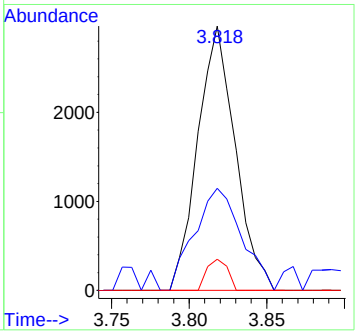


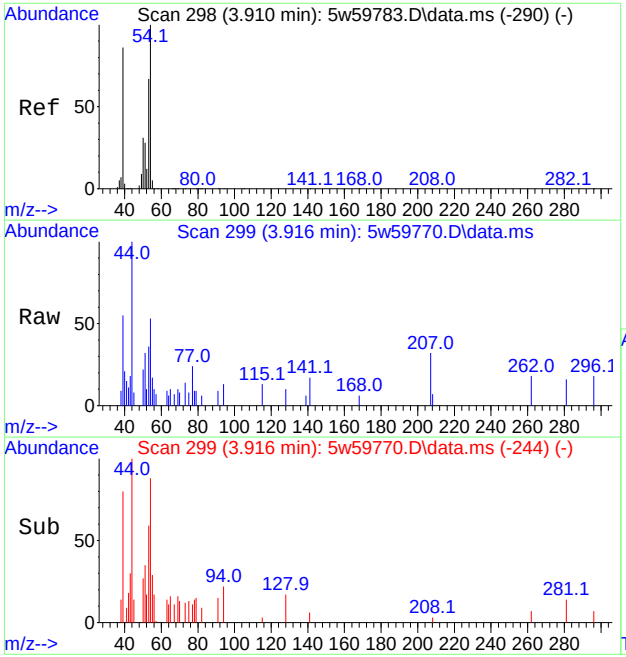


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 4992

Ion	Ratio	Lower	Upper
62	100		
64	48.5	3.6	63.6
61	6.6	0.0	38.2

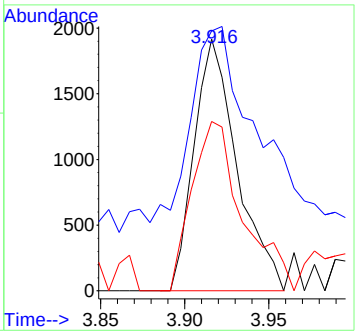


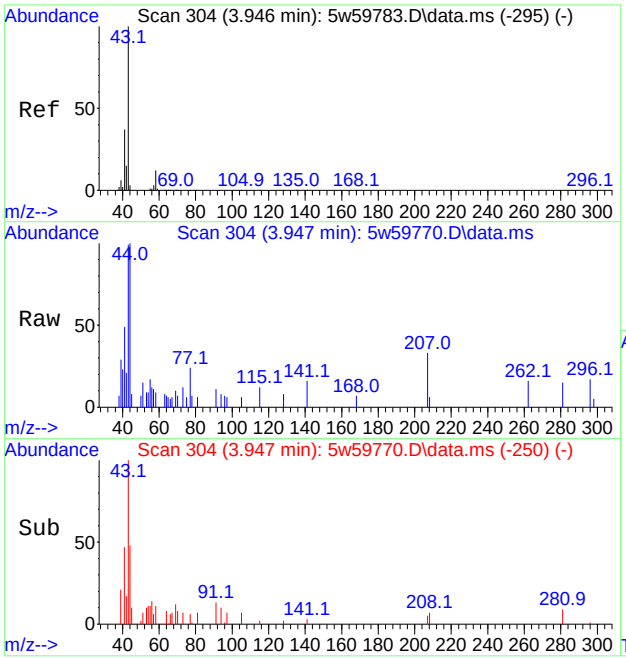


#12
1,3-BUTADIENE
Concen: 0.13 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 54 Resp: 3400

Ion	Ratio	Lower	Upper
54	100		
39	107.9	82.0	142.0
53	79.3	40.2	100.2

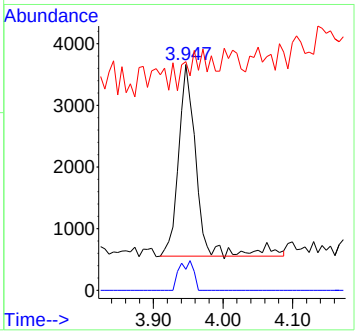


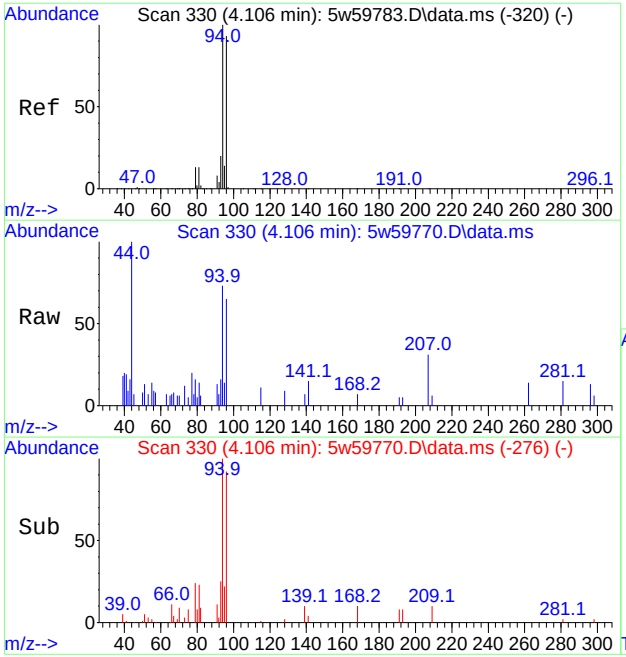


#13
n-BUTANE
Concen: 0.13 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 5567

Ion	Ratio	Lower	Upper
43	100		
58	12.4	0.0	42.6
44	0.0	0.0	34.9

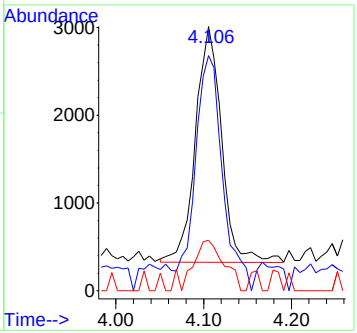


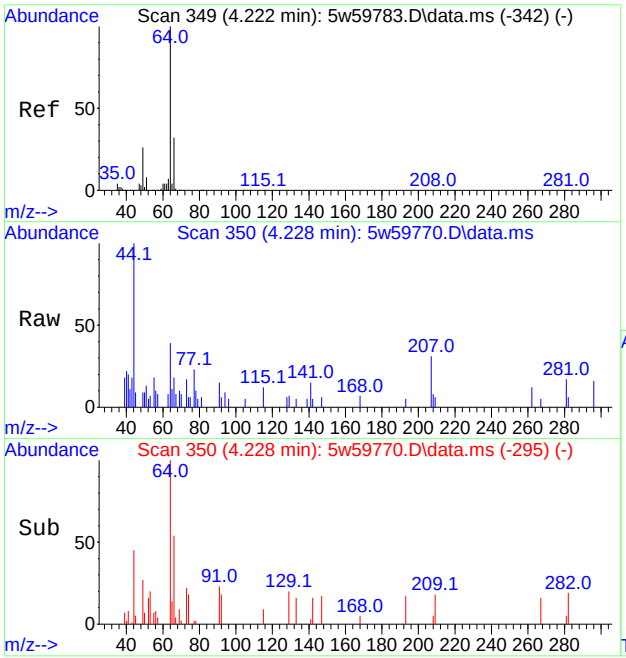


#14
BROMOMETHANE
Concen: 0.12 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 94 Resp: 5574

Ion	Ratio	Lower	Upper
94	100		
96	104.1	65.3	125.3
95	26.0	0.0	44.1

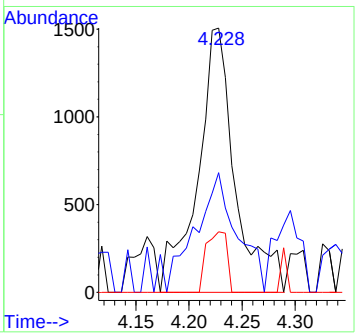


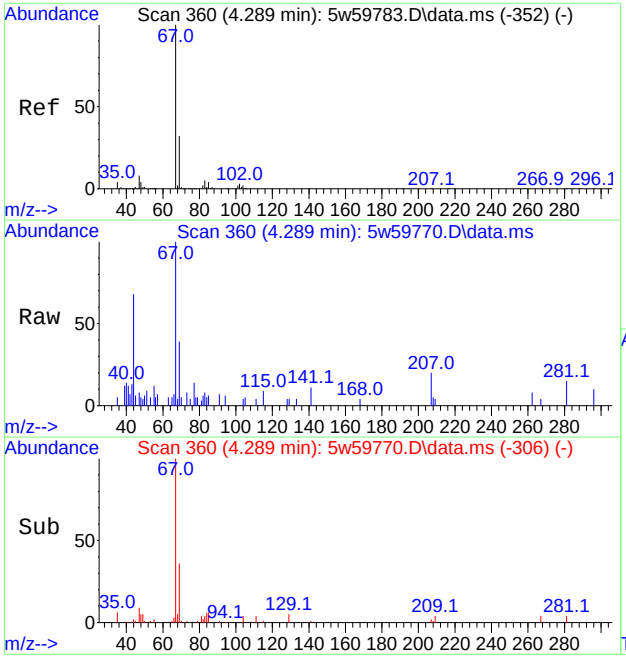


#15
CHLOROETHANE
Concen: 0.18 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 64 Resp: 3723

Ion	Ratio	Lower	Upper
64	100		
66	49.7	3.1	63.1
49	12.5	0.0	55.3

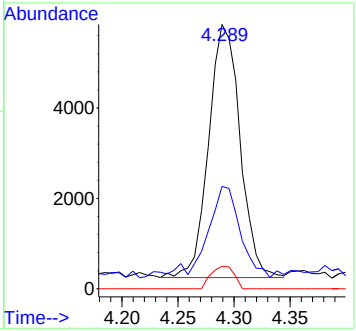


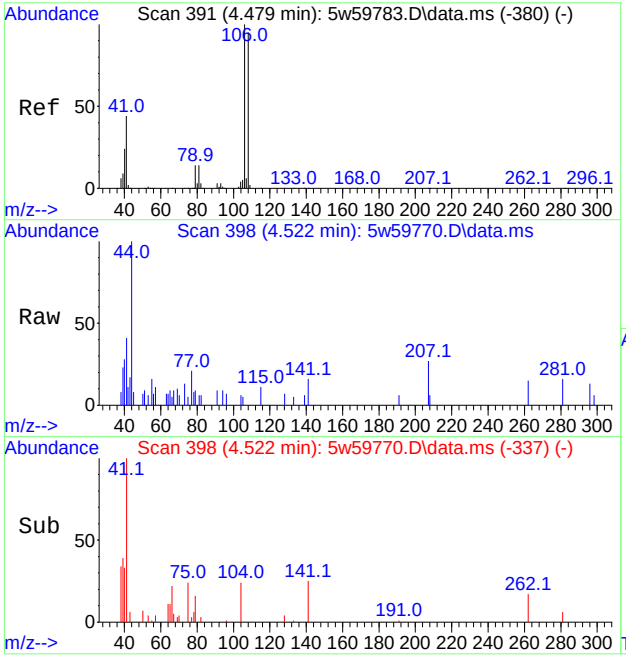


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 67 Resp: 10972

Ion	Ratio	Lower	Upper
67	100		
69	38.6	22.7	42.3
47	6.5	5.6	10.4

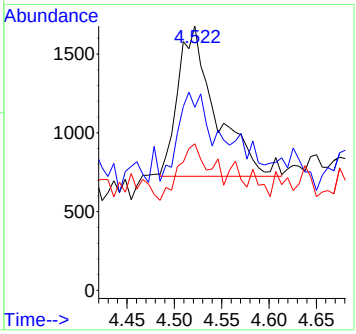


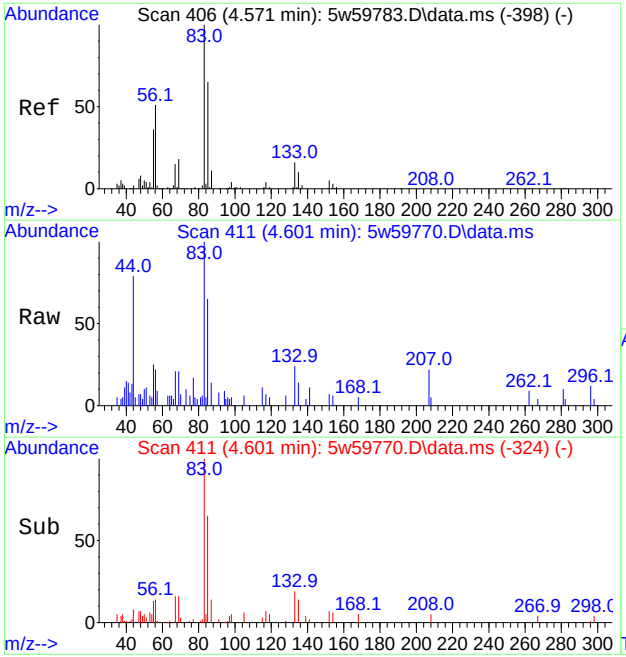


#17
ACETONITRILE
Concen: 0.10 PPBV m
RT: 4.522 min Scan# 398
Delta R.T. 0.043 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 41 Resp: 2670

Ion	Ratio	Lower	Upper
41	100		
40	100.2	37.9	70.5#
39	46.6	13.4	24.8#

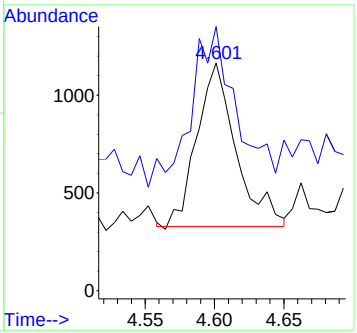


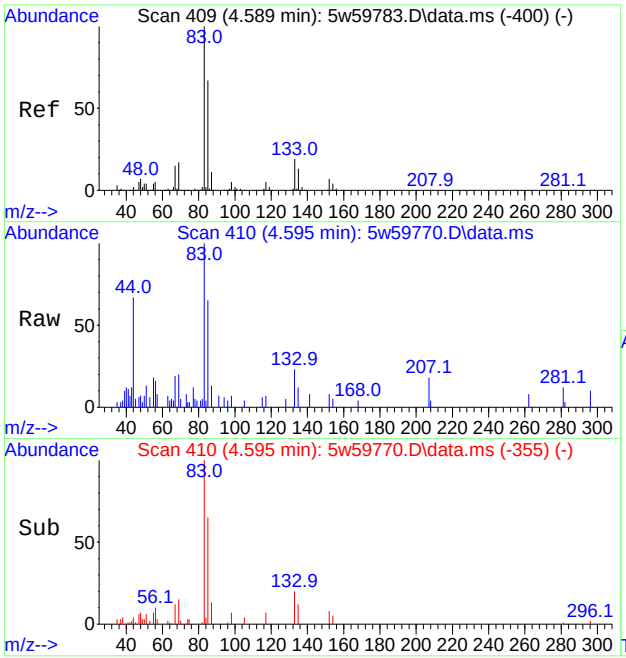


#18
ACROLEIN
Concen: 0.11 PPBV m
RT: 4.601 min Scan# 411
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 56 Resp: 1642

Ion	Ratio	Lower	Upper
56	100		
55	106.4	46.6	86.6#

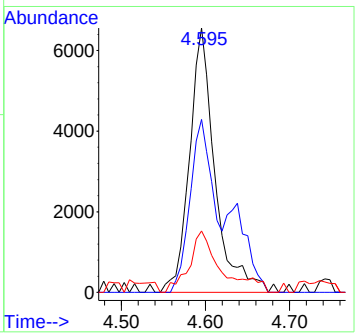


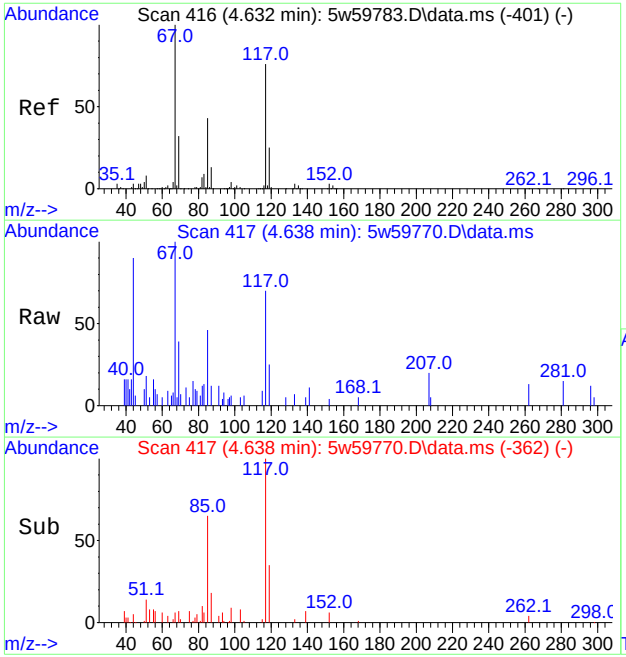


#19
FREON 123
Concen: 0.13 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 13808

Ion	Ratio	Lower	Upper
83	100		
85	60.2	34.0	94.0
133	28.7	0.0	50.7

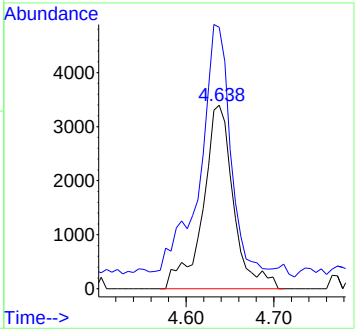


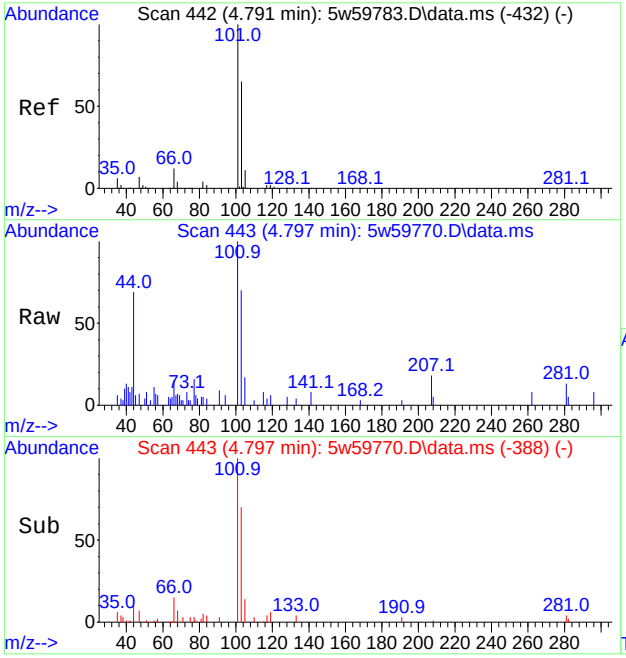


#20
FREON 123A
Concen: 0.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 8167

Ion	Ratio	Lower	Upper
117	100		
67	143.7	114.6	174.6

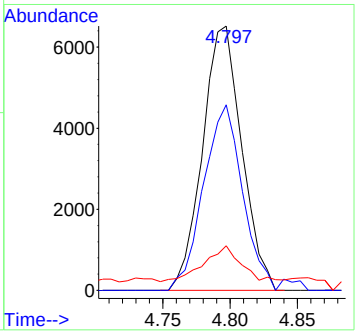


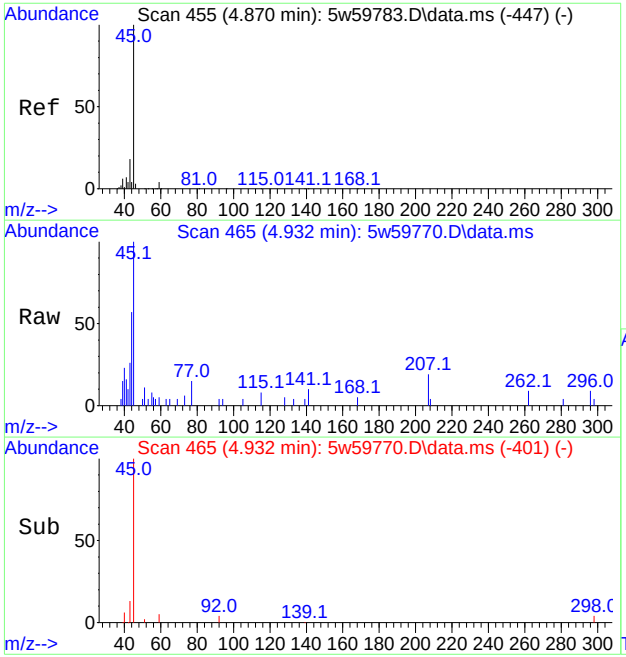


#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:101 Resp: 13248

Ion	Ratio	Lower	Upper
101	100		
103	69.6	35.0	95.0
105	25.5	0.0	40.7

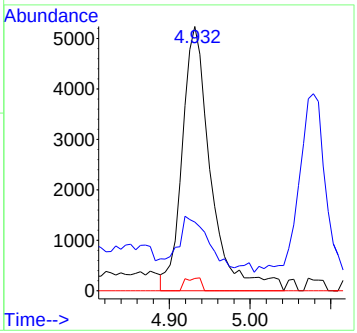


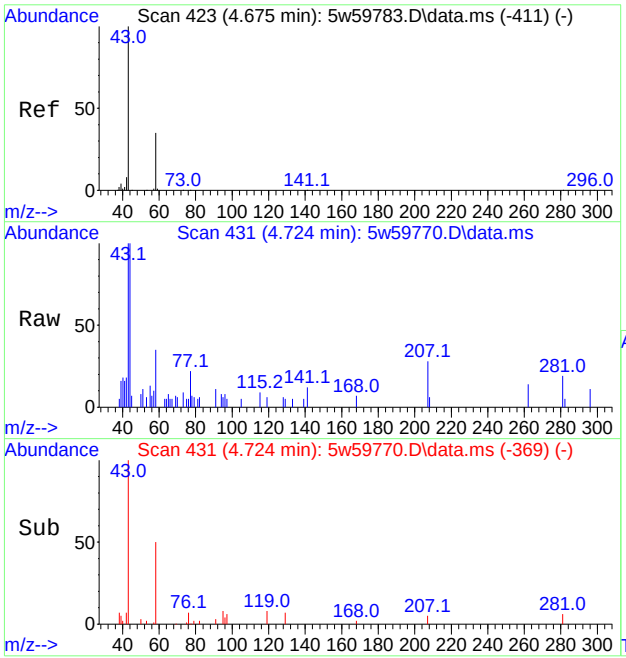


#22
ISOPROPYL ALCOHOL
Concen: 0.15 PPBV
RT: 4.932 min Scan# 465
Delta R.T. 0.062 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 12850

Ion	Ratio	Lower	Upper
45	100		
43	26.0	0.0	47.8
59	4.7	0.0	34.1

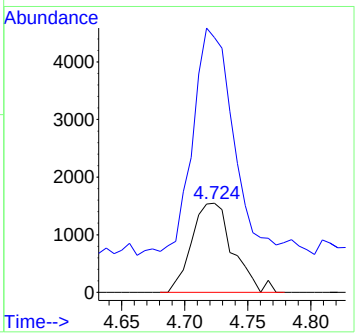


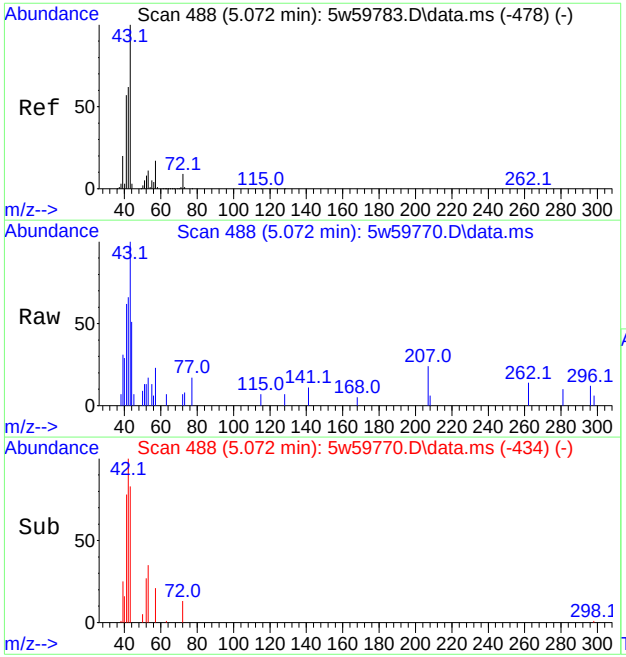


#23
ACETONE
Concen: 0.18 PPBV
RT: 4.724 min Scan# 431
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 3503

Ion	Ratio	Lower	Upper
58	100		
43	258.5	252.3	312.3

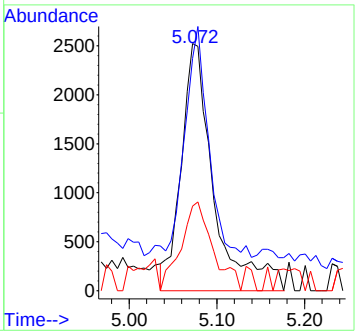


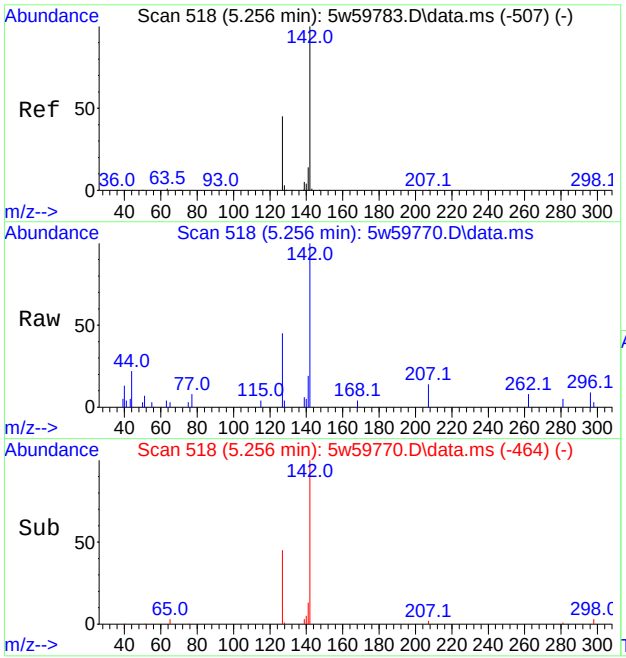


#24
PENTANE
Concen: 0.15 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 42 Resp: 6510

Ion	Ratio	Lower	Upper
42	100		
41	160.1	62.3	122.3#
57	35.3	0.0	57.7

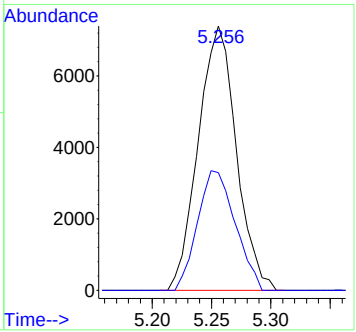


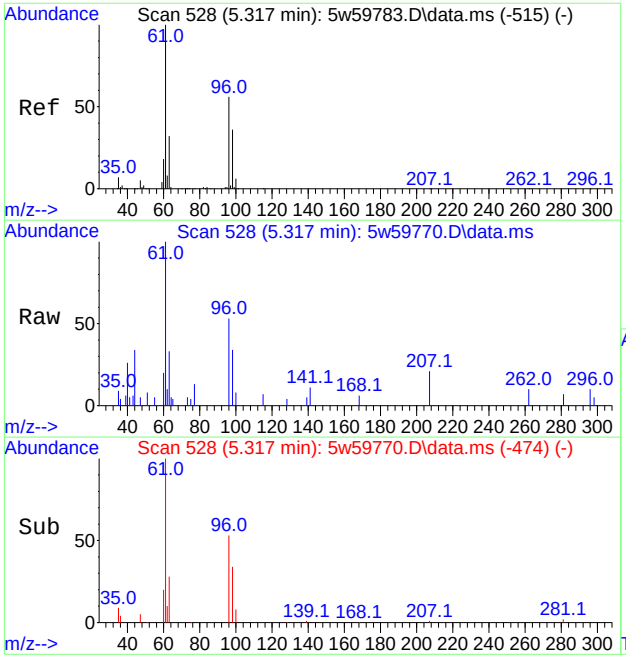


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:142 Resp: 16474

Ion	Ratio	Lower	Upper
142	100		
127	44.7	16.0	76.0

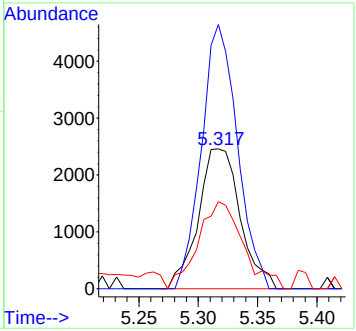


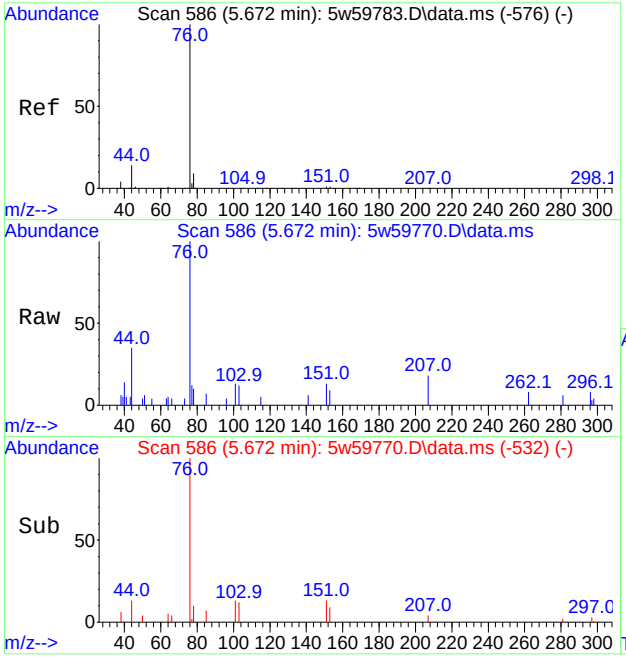


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6043

Ion	Ratio	Lower	Upper
96	100		
61	161.4	148.5	208.5
63	66.7	27.4	87.4

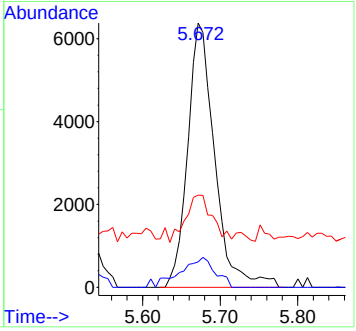


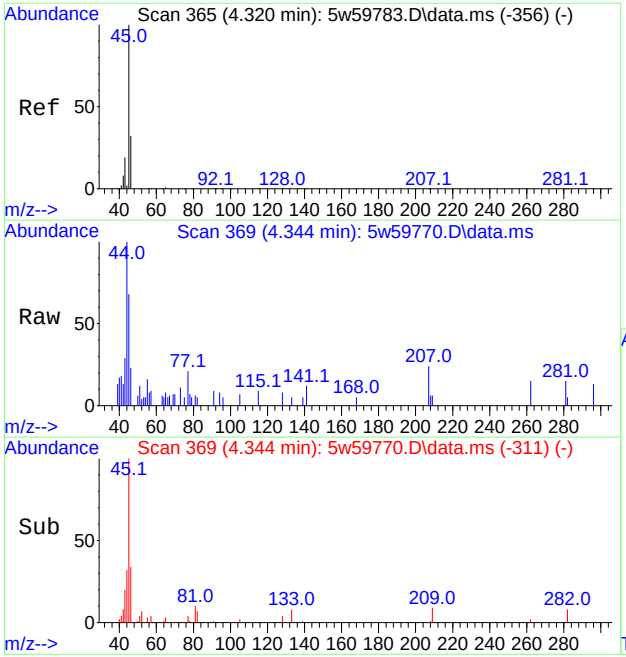


#27
CARBON DISULFIDE
Concen: 0.12 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 15443

Ion	Ratio	Lower	Upper
76	100		
78	14.8	0.0	41.5
44	19.6	0.0	44.6

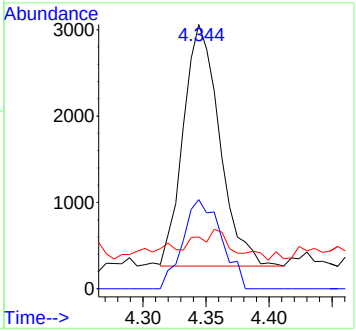


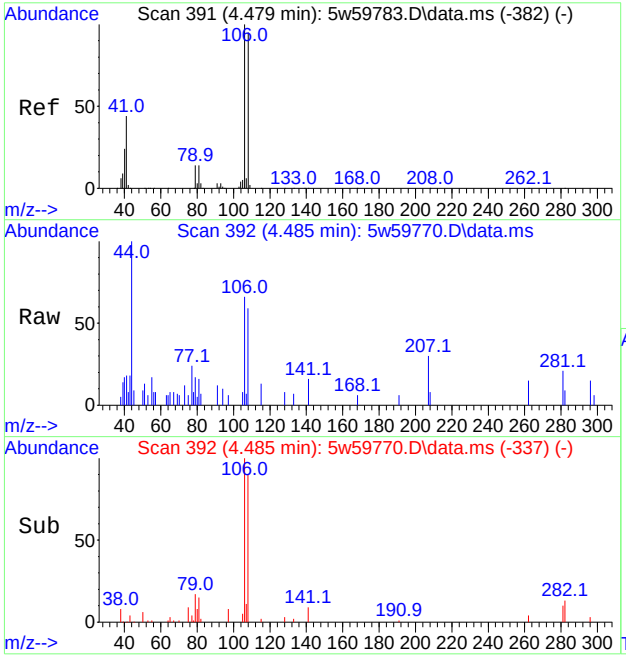


#28
ETHANOL
Concen: 0.26 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 45 Resp: 5592

Ion	Ratio	Lower	Upper
45	100		
46	39.3	2.0	62.0
42	12.5	0.0	38.5

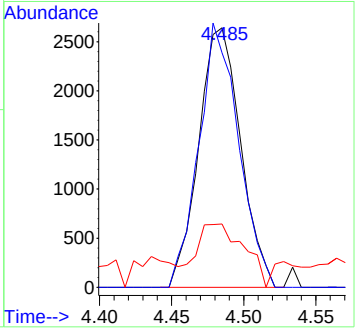


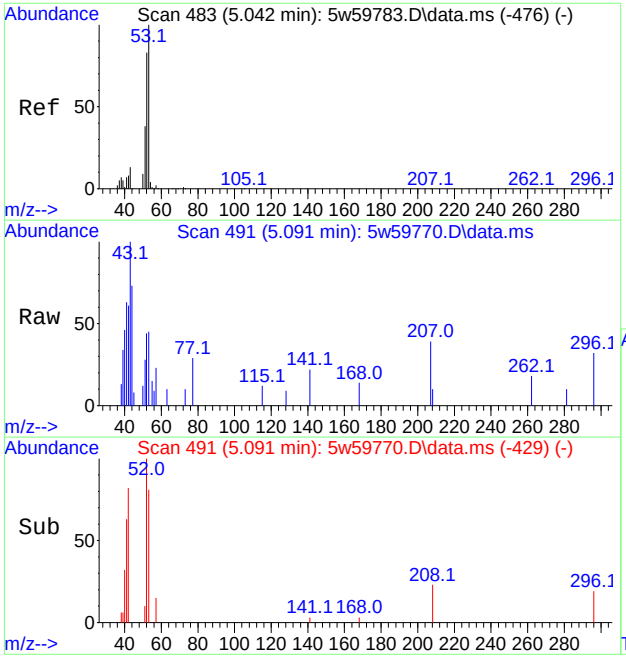


#29
BROMOETHENE
Concen: 0.11 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 5356

Ion	Ratio	Lower	Upper
106	100		
108	96.6	65.6	125.6
81	28.1	0.0	43.9

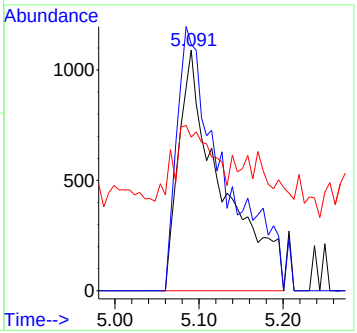


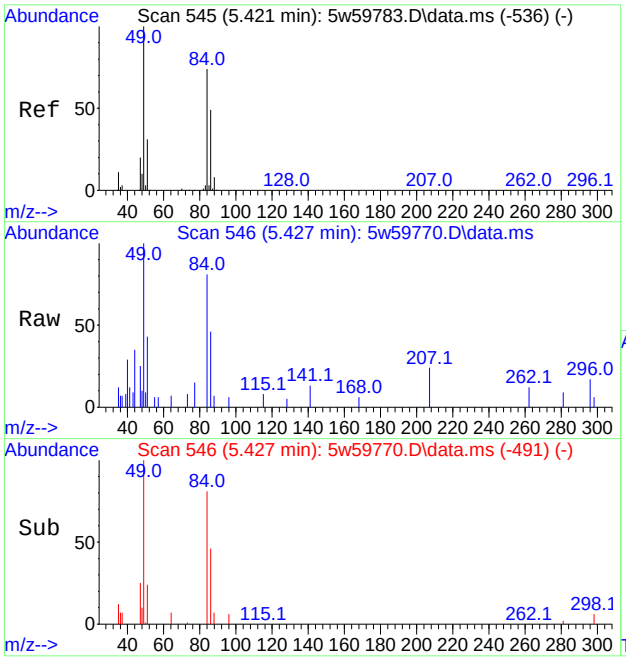


#30
ACRYLONITRILE
Concen: 0.12 PPBV
RT: 5.091 min Scan# 491
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 52 Resp: 3869

Ion	Ratio	Lower	Upper
52	100		
53	121.0	85.8	159.4
51	65.0	32.3	60.1#

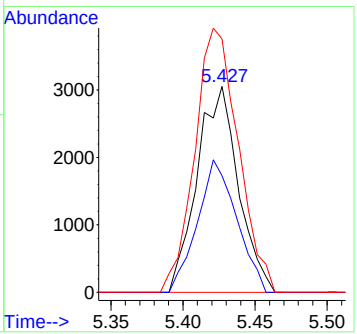


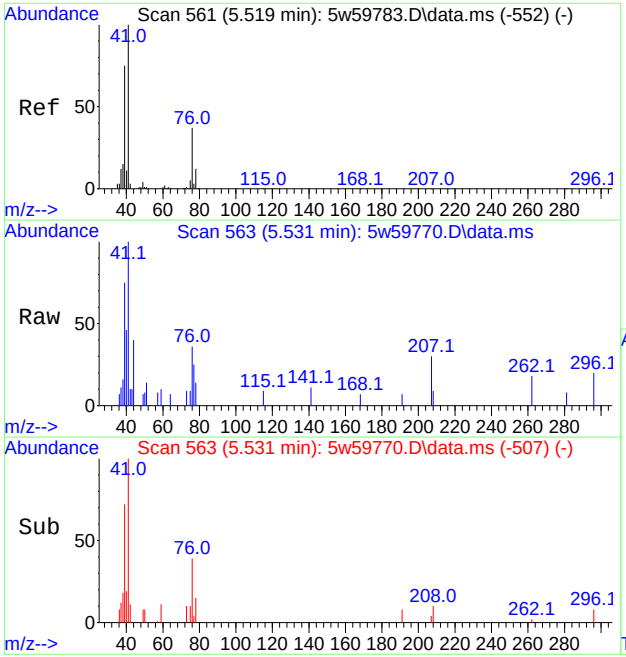


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 6090

Ion	Ratio	Lower	Upper
84	100		
86	61.0	35.2	95.2
49	135.4	105.3	165.3

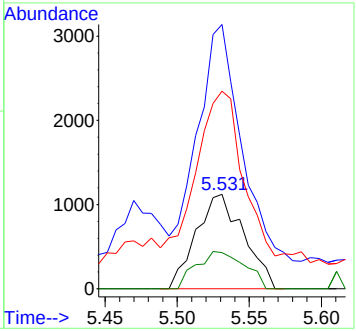


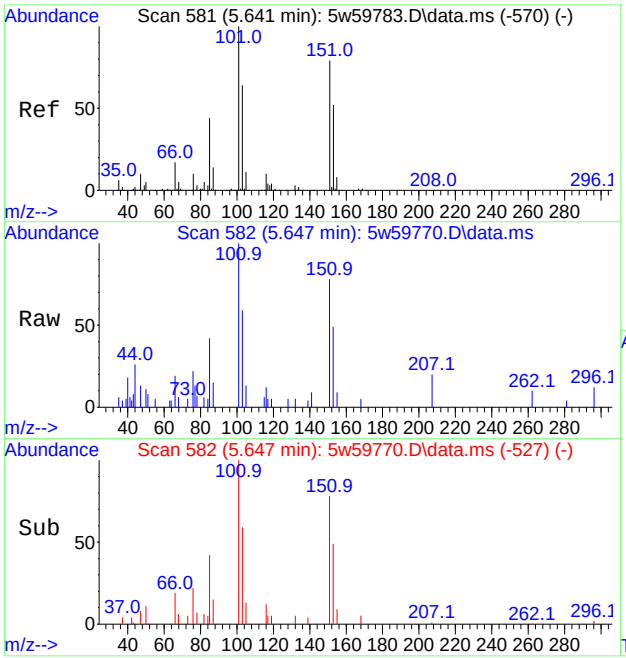


#32
3-CHLOROPROPENE
Concen: 0.11 PPBV
RT: 5.531 min Scan# 563
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 2581

Ion	Ratio	Lower	Upper
76	100		
41	416.2	240.8	300.8#
39	186.5	173.6	233.6
78	40.1	2.8	62.8

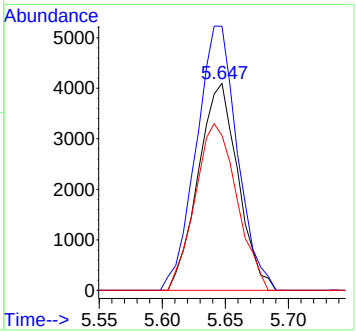


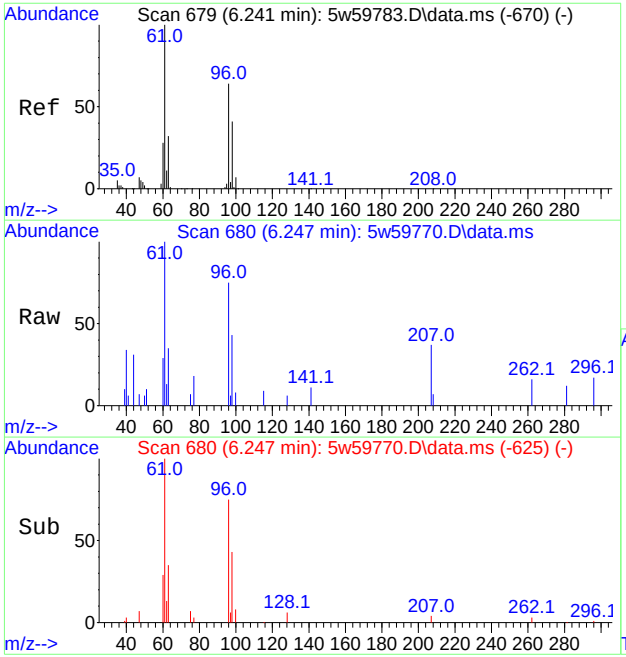


#33
FREON 113
Concen: 0.10 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:151 Resp: 8991

Ion	Ratio	Lower	Upper
151	100		
101	131.6	97.5	157.5
103	84.2	52.5	112.5

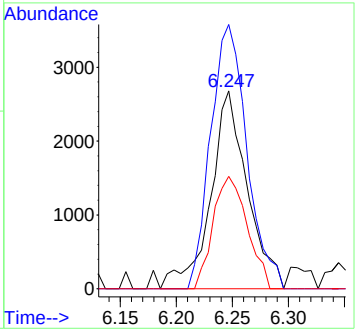


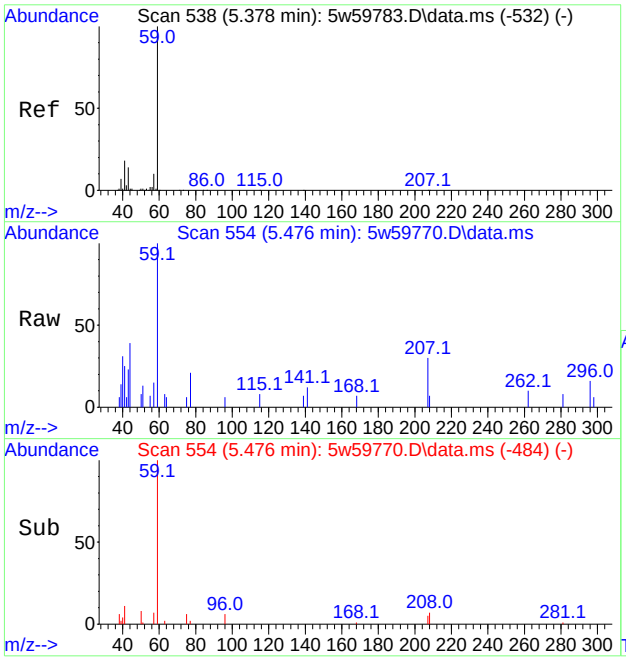


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6117

Ion	Ratio	Lower	Upper
96	100		
61	131.9	126.4	186.4
98	52.8	34.1	94.1

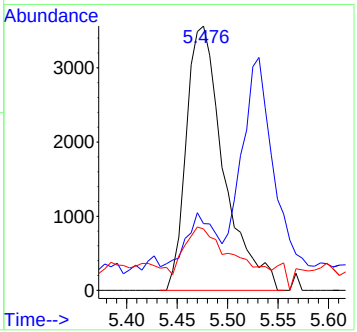


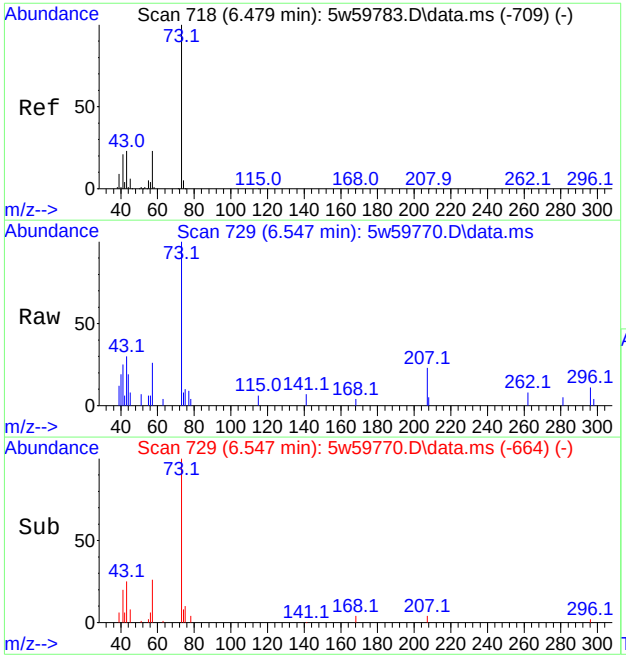


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.09 PPBV
RT: 5.476 min Scan# 554
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 9217

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	36.4	0.0	44.1

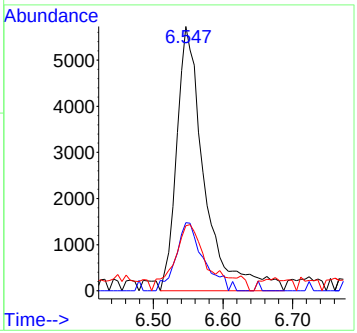


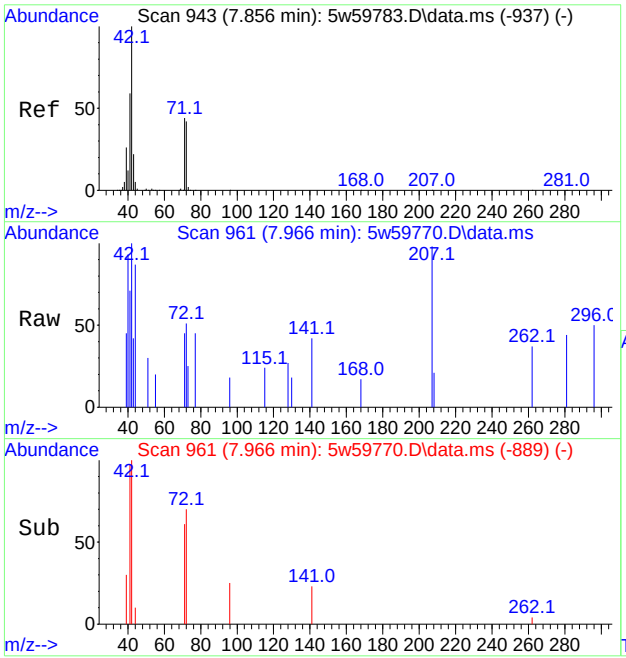


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.12 PPBV
RT: 6.547 min Scan# 729
Delta R.T. 0.068 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 73 Resp: 15796

Ion	Ratio	Lower	Upper
73	100		
57	25.8	0.0	53.1
41	30.7	0.0	50.6

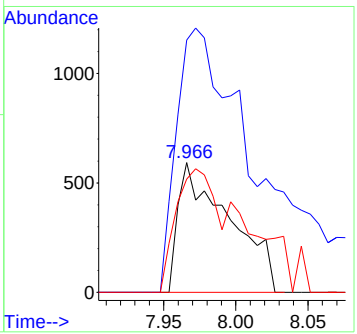


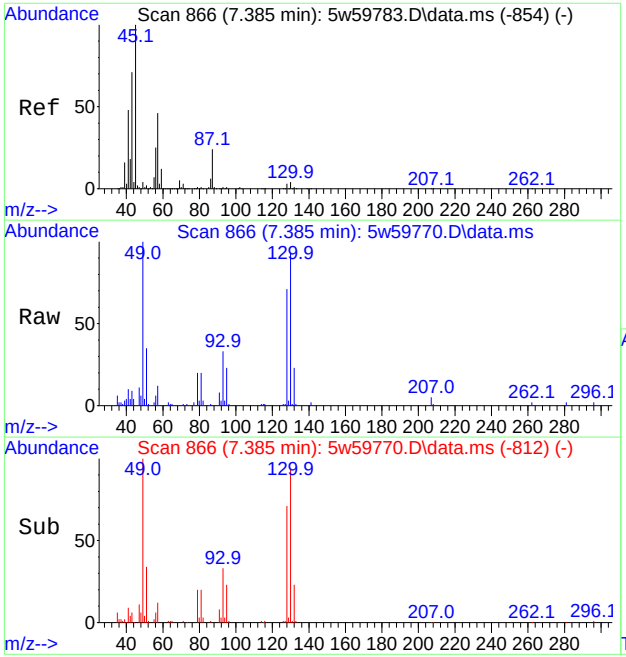


#37
TETRAHYDROFURAN
Concen: 0.08 PPBV
RT: 7.966 min Scan# 961
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 1469

Ion	Ratio	Lower	Upper
72	100		
42	342.0	202.4	262.4#
71	131.0	71.1	131.1

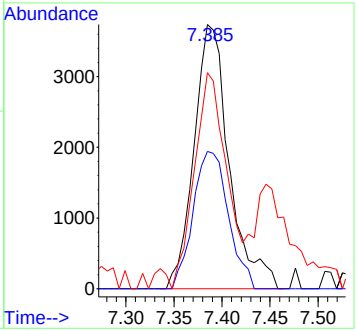


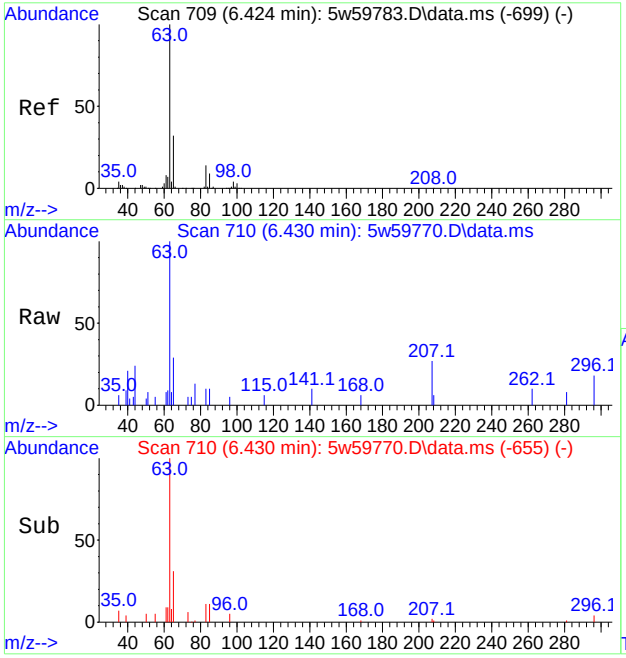


#38
HEXANE
Concen: 0.13 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9533

Ion	Ratio	Lower	Upper
57	100		
56	52.0	25.9	85.9
41	80.5	74.7	134.7

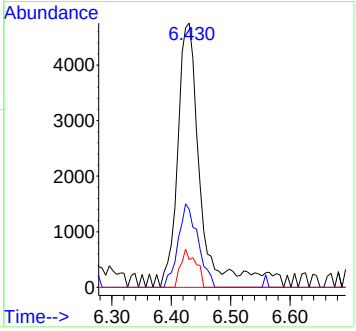


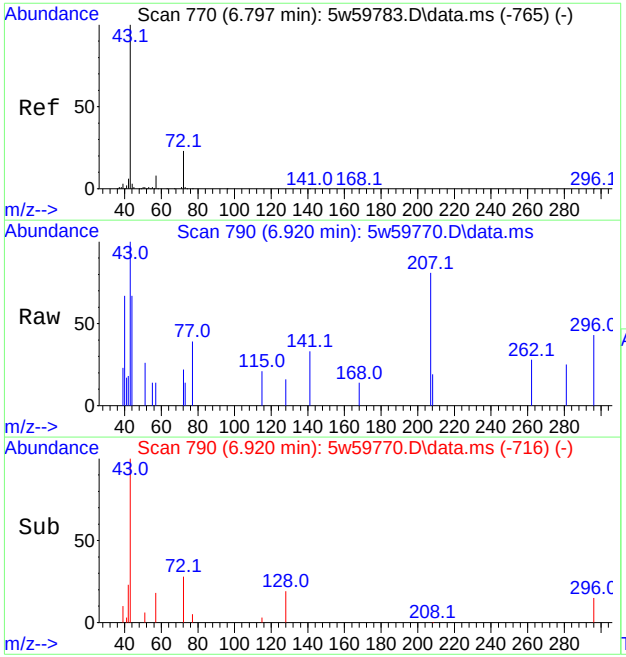


#40
1,1-DICHLOROETHANE
Concen: 0.14 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 12904

Ion	Ratio	Lower	Upper
63	100		
65	27.4	1.7	61.7
83	9.4	0.0	43.5

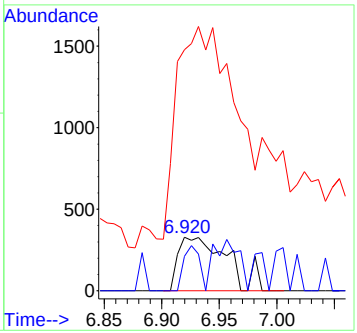


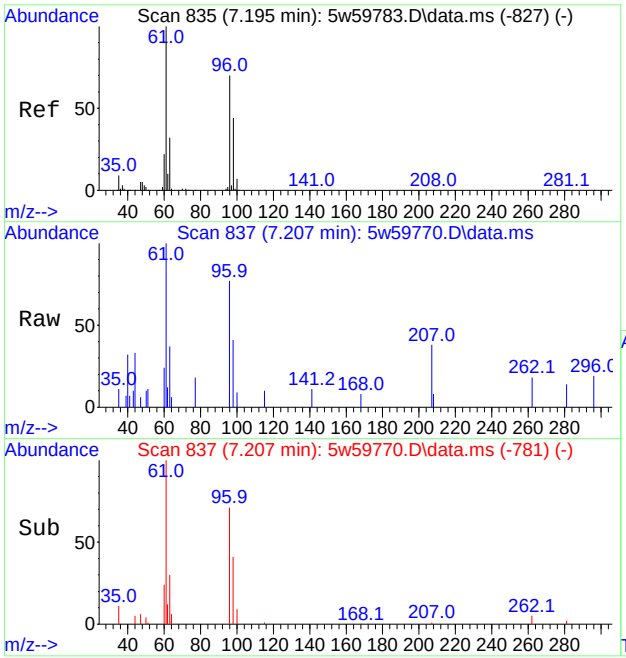


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV m
RT: 6.920 min Scan# 790
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 72 Resp: 956

Ion	Ratio	Lower	Upper
72	100		
57	64.6	4.8	64.8
43	450.9	415.9	475.9

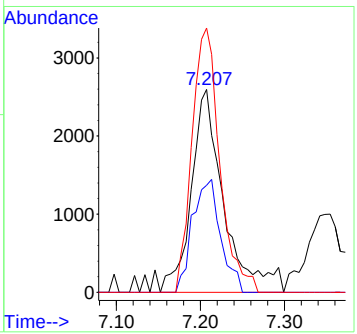


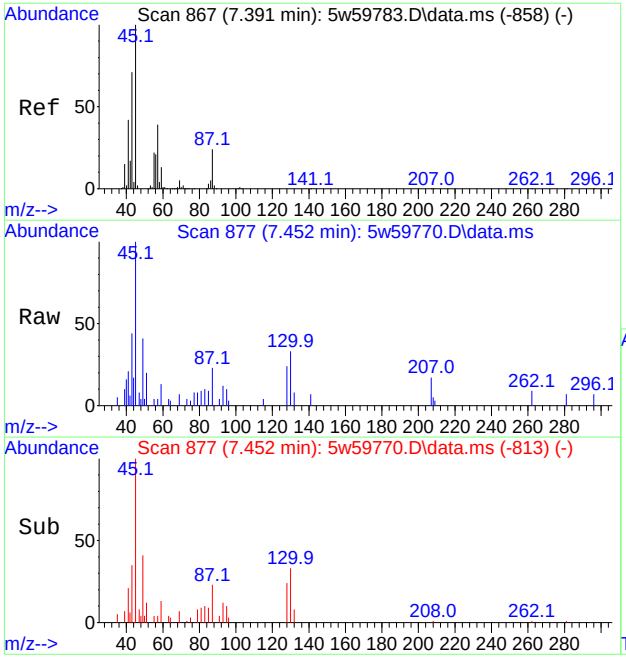


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.13 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 96 Resp: 6979

Ion	Ratio	Lower	Upper
96	100		
98	48.0	34.0	94.0
61	111.6	111.5	171.5

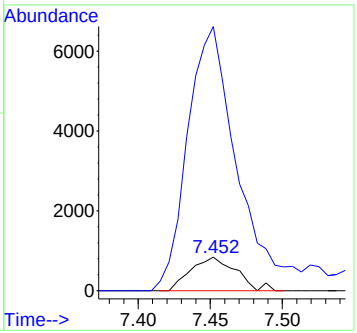


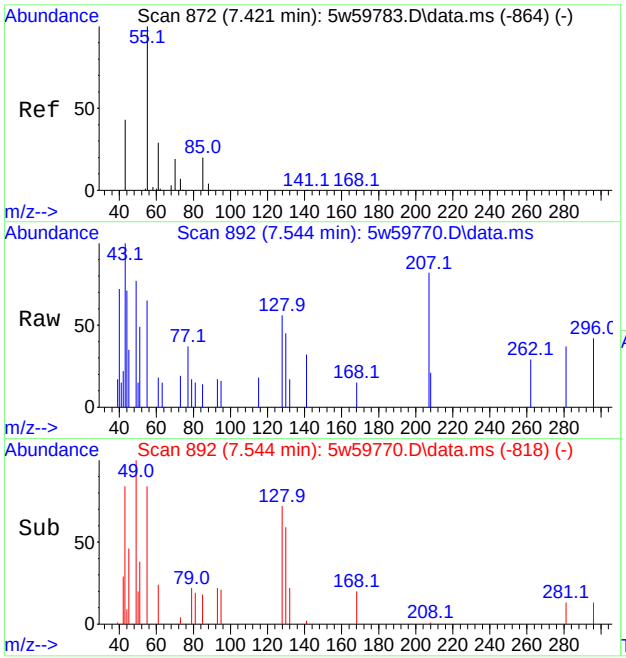


#43
DIISOPROPYL ETHER
Concen: 0.09 PPBV
RT: 7.452 min Scan# 877
Delta R.T. 0.061 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 59 Resp: 1846

Ion	Ratio	Lower	Upper
59	100		
45	973.3	720.9	780.9#

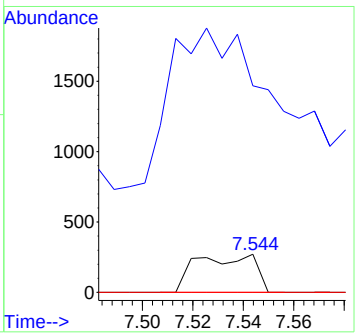


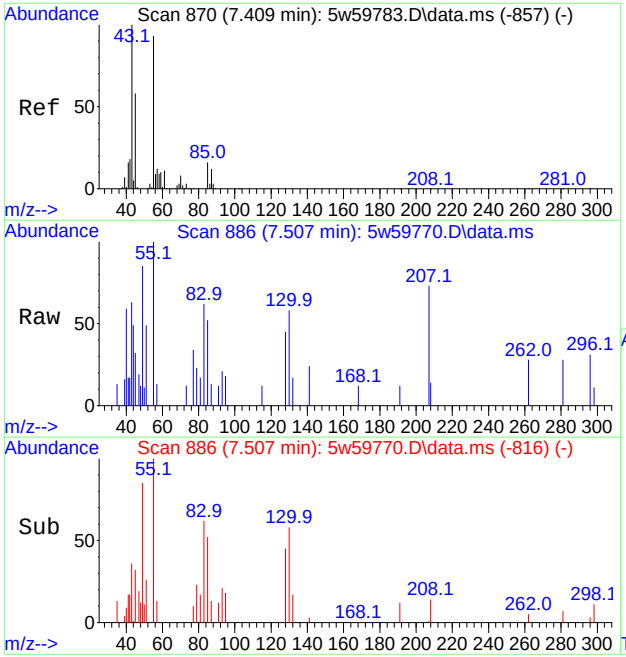


#44
ETHYL ACETATE
Concen: 0.03 PPBV m
RT: 7.544 min Scan# 892
Delta R.T. 0.123 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 61 Resp: 434

Ion	Ratio	Lower	Upper
61	100		
43	829.0	560.5	620.5#
88	0.0	4.5	64.5#

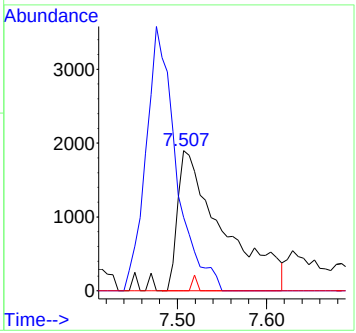


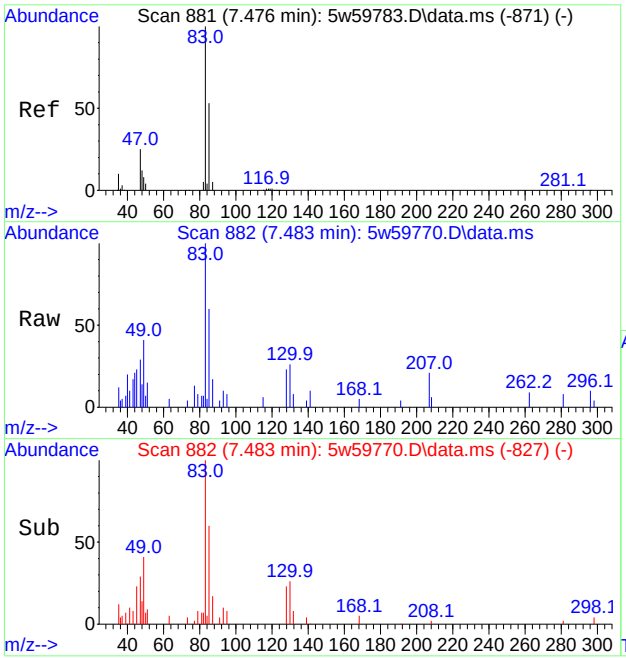


#45
METHYL ACRYLATE
Concen: 0.08 PPBV m
RT: 7.507 min Scan# 886
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 55 Resp: 6719

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	0.0	9.4	17.6#

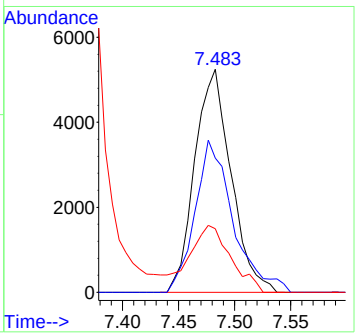


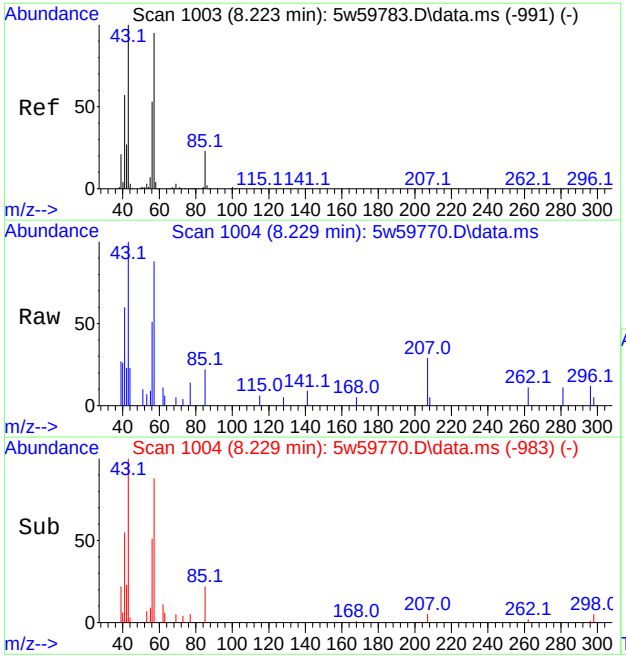


#46
CHLOROFORM
Concen: 0.11 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 11842

Ion	Ratio	Lower	Upper
83	100		
85	71.3	35.6	95.6
47	32.6	0.0	55.2

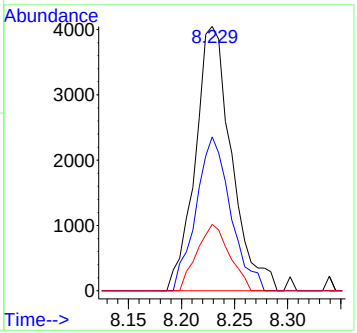


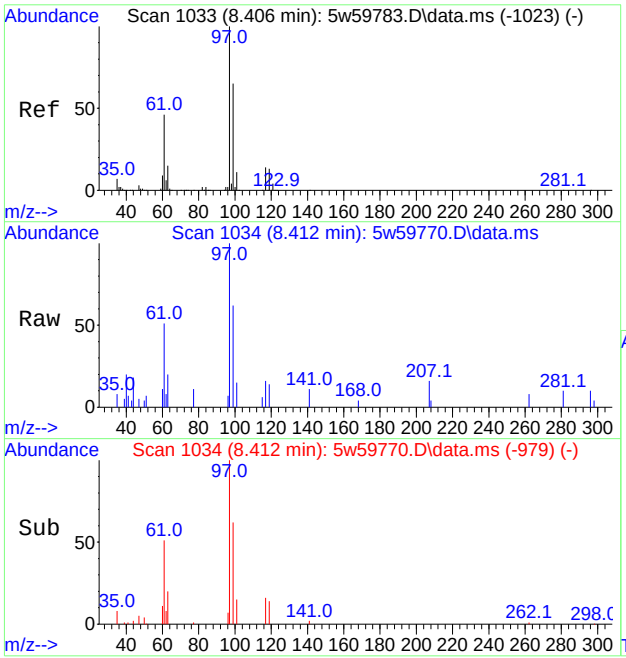


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 9616

Ion	Ratio	Lower	Upper
57	100		
56	55.5	26.5	86.5
85	22.6	0.0	53.8

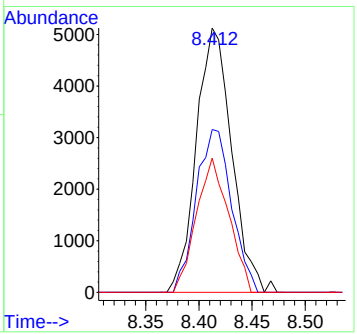


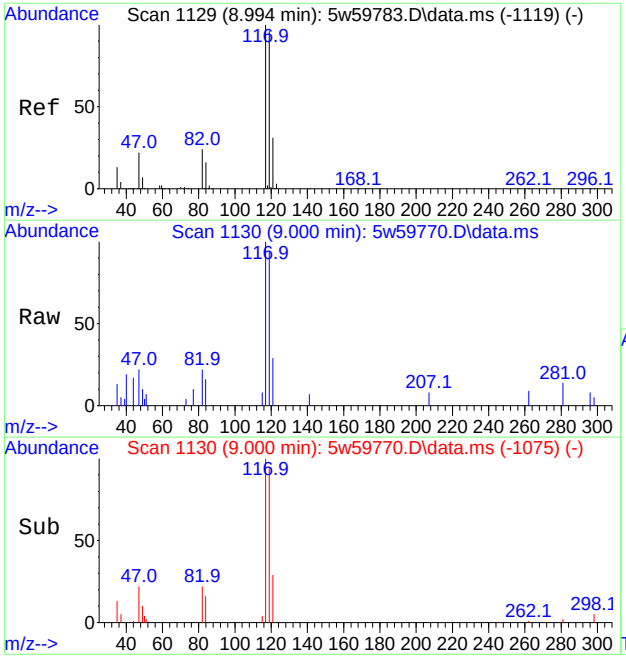


#48
1,1,1-TRICHLOROETHANE
Concen: 0.11 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 97 Resp: 11905

Ion	Ratio	Lower	Upper
97	100		
99	61.5	34.8	94.8
61	46.5	15.8	75.8

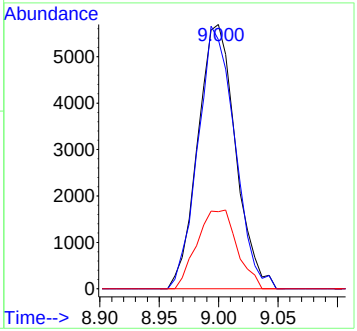


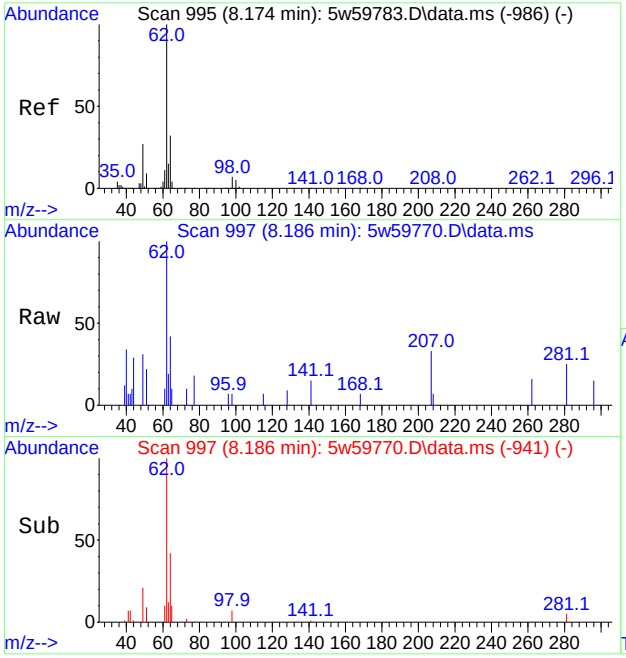


#49
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 12586

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.4	1.3	61.3

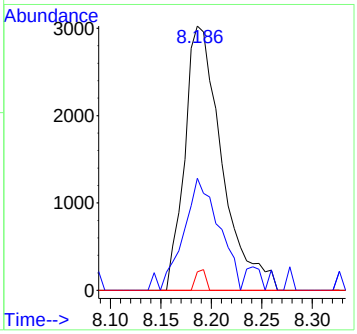


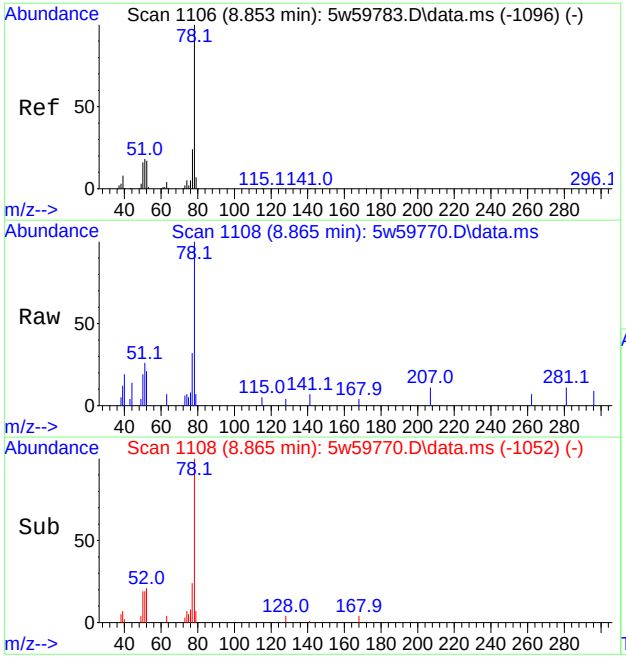


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 62 Resp: 7761

Ion	Ratio	Lower	Upper
62	100		
64	40.9	2.3	62.3
98	2.1	0.0	36.9

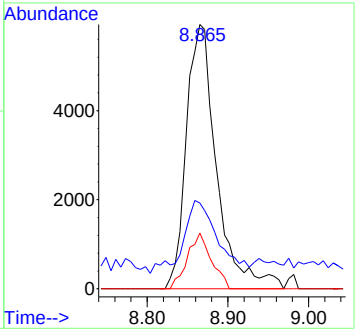


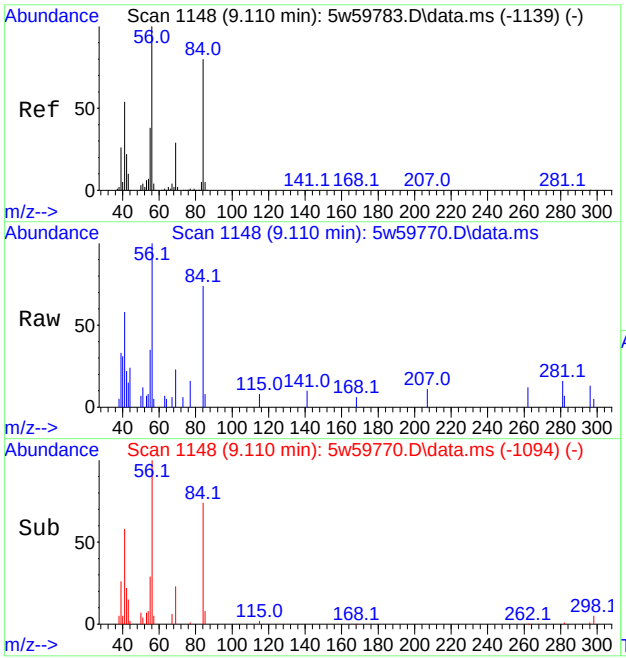


#52
BENZENE
Concen: 0.11 PPBV
RT: 8.865 min Scan# 1108
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 78 Resp: 15430

Ion	Ratio	Lower	Upper
78	100		
77	31.0	0.0	53.8
52	16.7	0.0	46.9

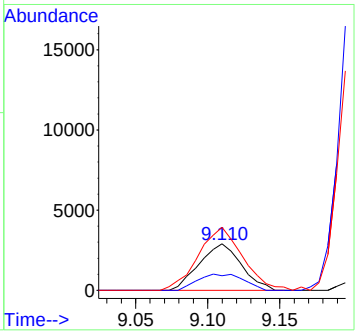


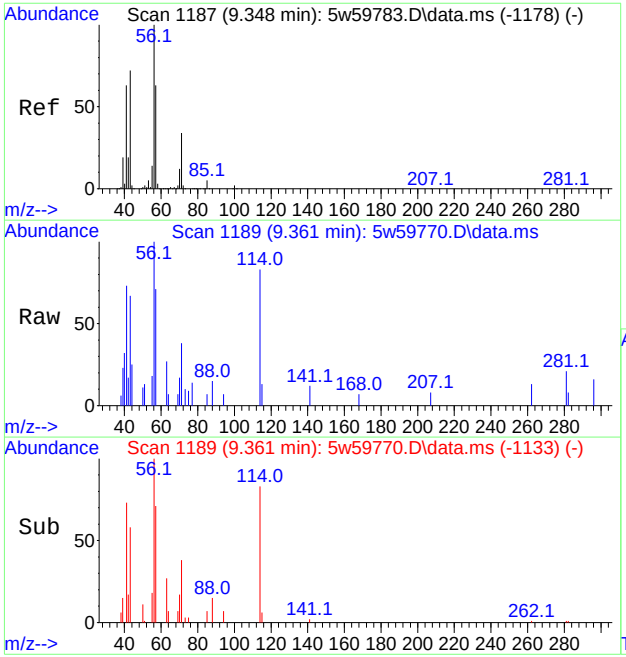


#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 84 Resp: 5905

Ion	Ratio	Lower	Upper
84	100		
69	38.2	6.9	66.9
56	142.3	98.2	158.2

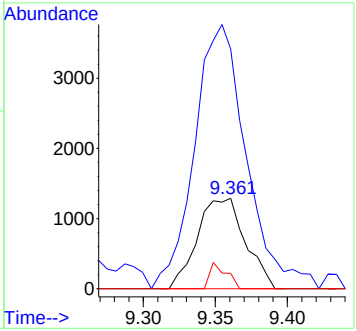


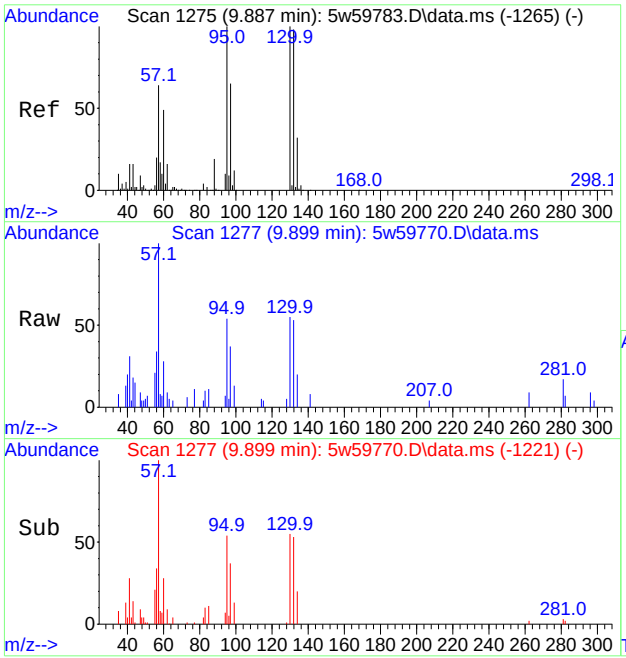


#54
2,3-DIMETHYLPENTANE
Concen: 0.10 PPBV
RT: 9.361 min Scan# 1189
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 71 Resp: 2989

Ion	Ratio	Lower	Upper
71	100		
56	315.8	264.6	324.6
85	10.1	0.0	45.3

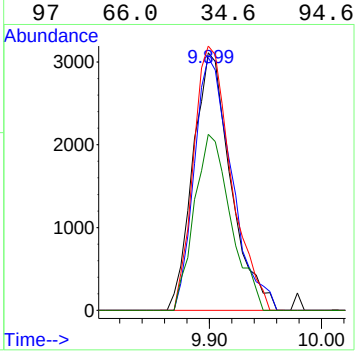


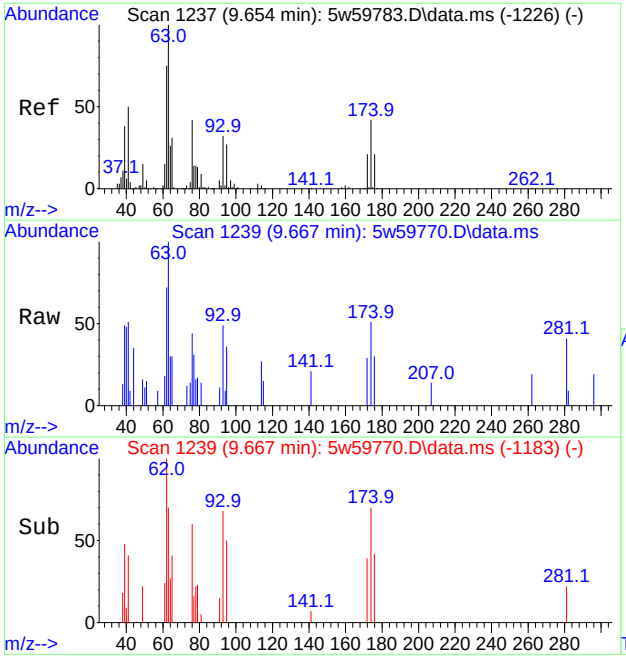


#55
TRICHLOROETHYLENE
Concen: 0.10 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 95 Resp: 7303

Ion	Ratio	Lower	Upper
95	100		
132	97.0	69.0	129.0
130	101.9	70.6	130.6
97	66.0	34.6	94.6

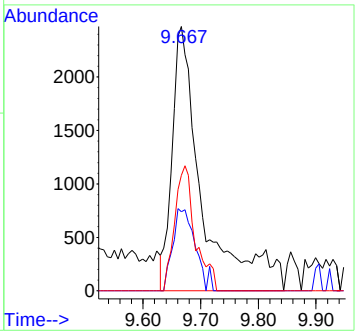


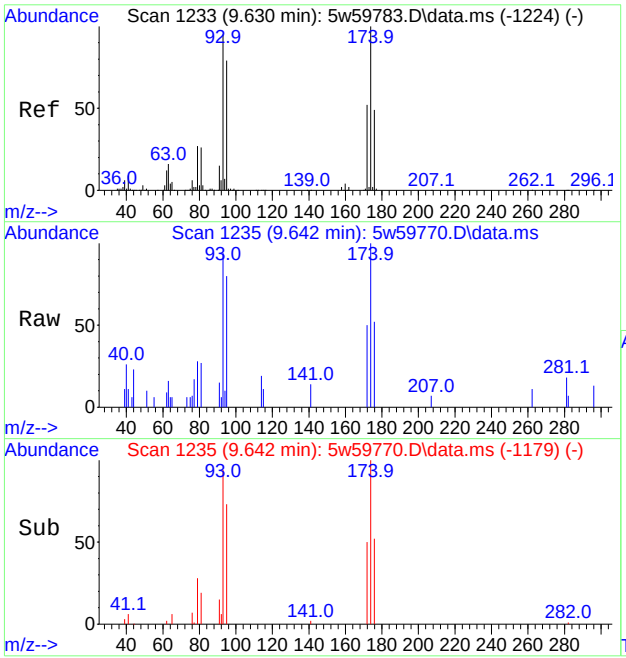


#56
1,2-DICHLOROPROPANE
Concen: 0.15 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 63 Resp: 9099

Ion	Ratio	Lower	Upper
63	100		
65	22.9	0.5	60.5
76	31.9	11.5	71.5

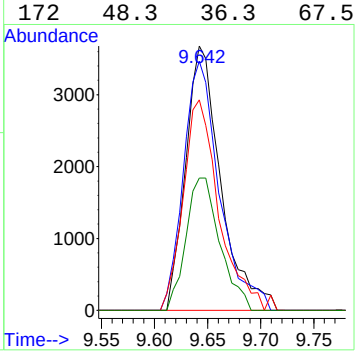


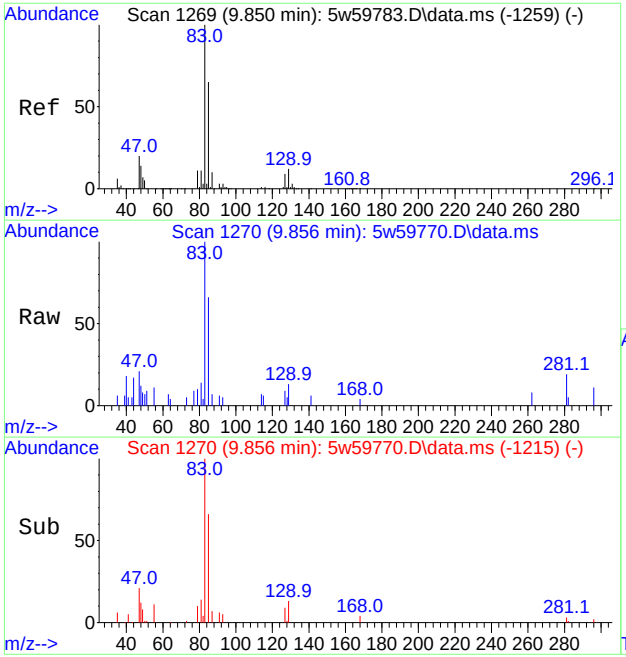


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:174 Resp: 8479

Ion	Ratio	Lower	Upper
174	100		
93	96.7	65.0	120.6
95	81.4	54.5	101.1
172	48.3	36.3	67.5

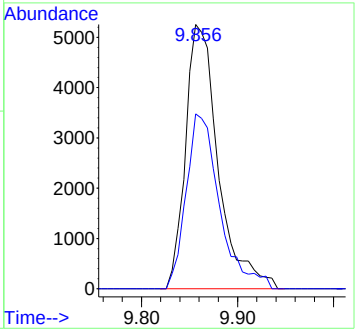


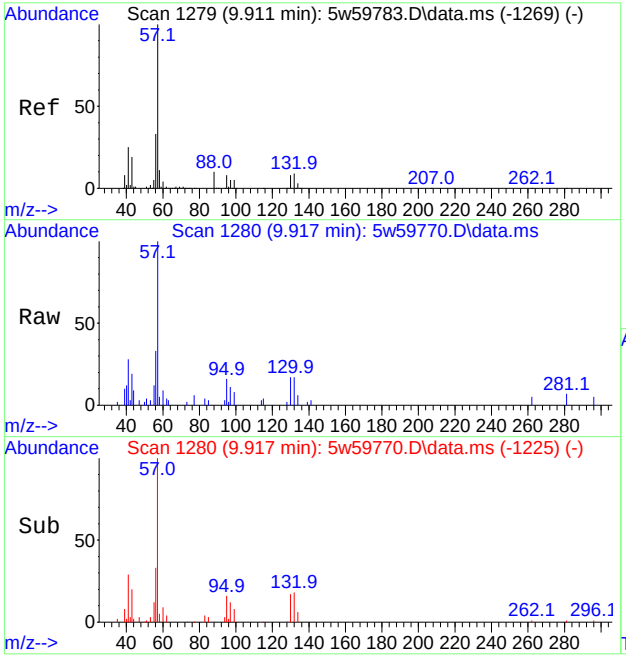


#59
BROMODICHLOROMETHANE
Concen: 0.10 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 12436

Ion	Ratio	Lower	Upper
83	100		
85	67.7	33.4	93.4

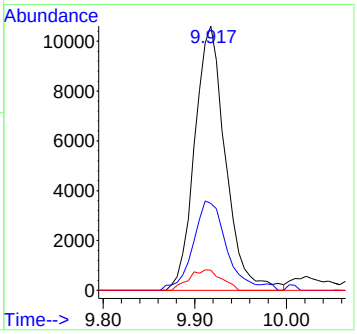


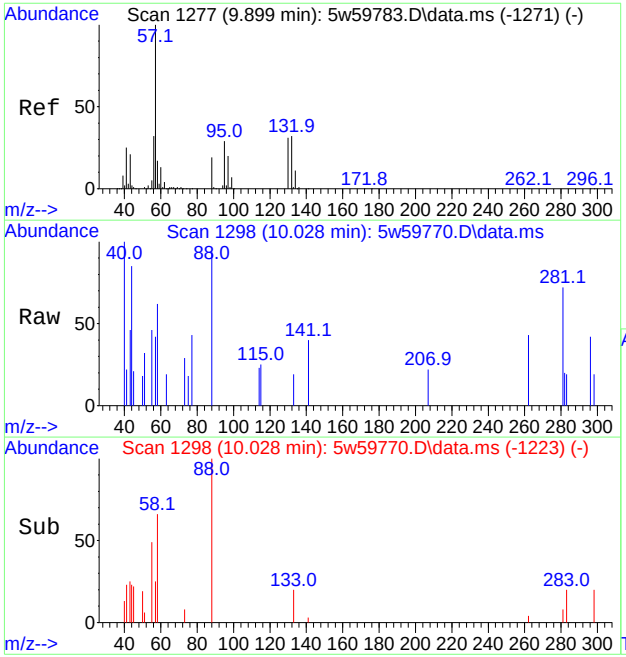


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 57 Resp: 24769

Ion	Ratio	Lower	Upper
57	100		
56	37.1	2.5	62.5
99	8.2	0.0	37.3

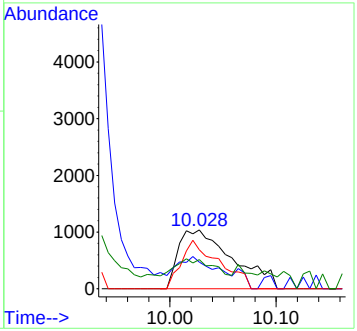


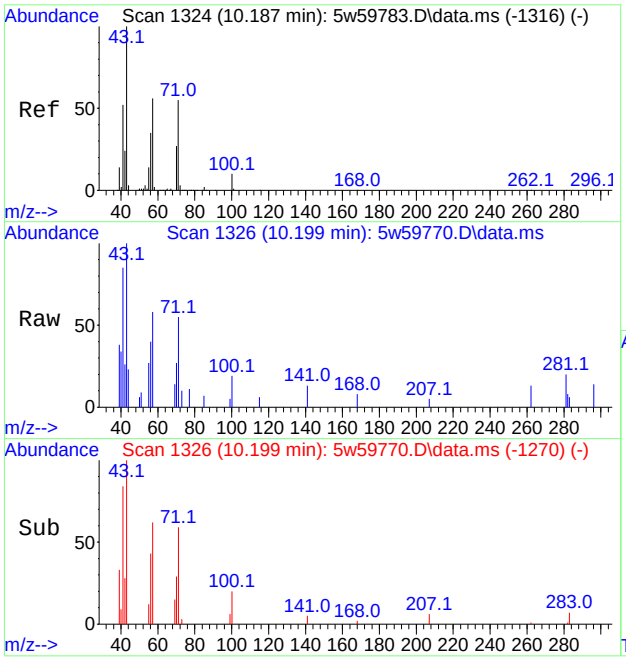


#61
1,4-DIOXANE
Concen: 0.11 PPBV
RT: 10.028 min Scan# 1298
Delta R.T. 0.129 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 88 Resp: 3670

Ion	Ratio	Lower	Upper
88	100		
57	45.3	494.2	554.2#
58	66.2	58.9	118.9
43	49.4	78.3	138.3#

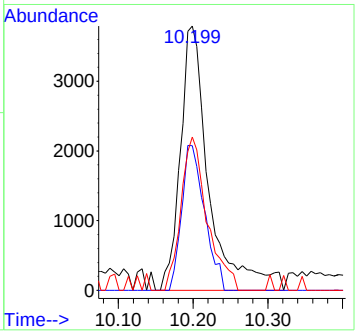


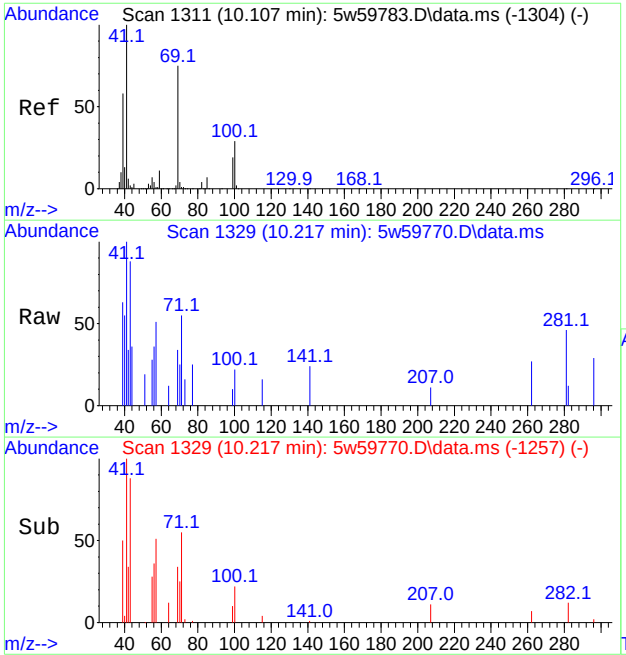


#62
HEPTANE
Concen: 0.13 PPBV
RT: 10.199 min Scan# 1326
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 10112

Ion	Ratio	Lower	Upper
43	100		
71	43.8	24.5	84.5
57	52.9	26.2	86.2

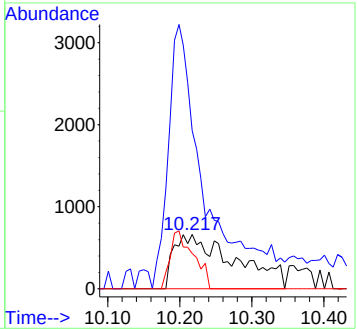


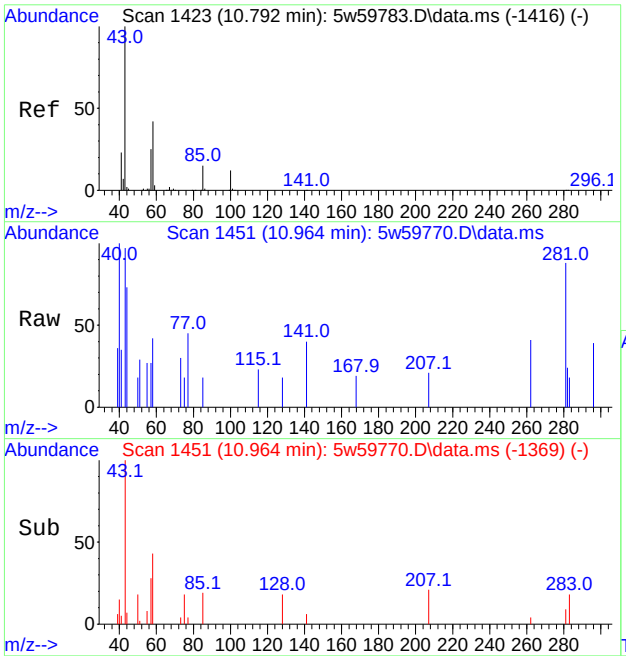


#63
METHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 10.217 min Scan# 1329
Delta R.T. 0.110 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 3857

Ion	Ratio	Lower	Upper
69	100		
41	336.7	95.3	155.3#
100	41.2	6.3	66.3

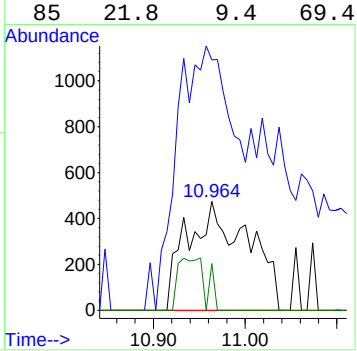


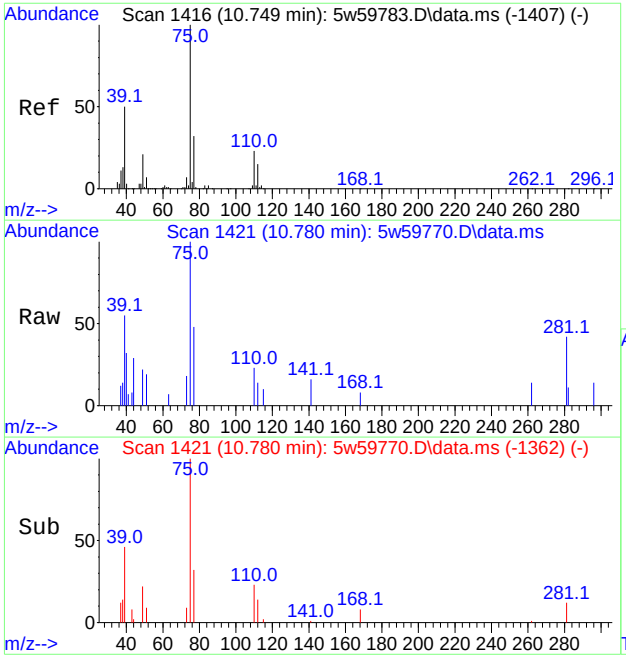


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 10.964 min Scan# 1451
Delta R.T. 0.172 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 58 Resp: 2182

Ion	Ratio	Lower	Upper
58	100		
43	381.4	209.2	269.2#
100	0.0	0.0	58.8
85	21.8	9.4	69.4

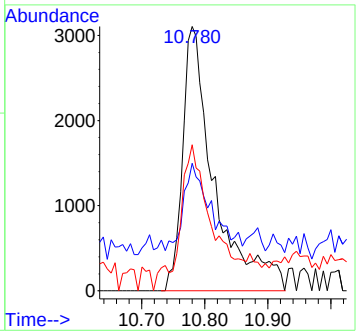


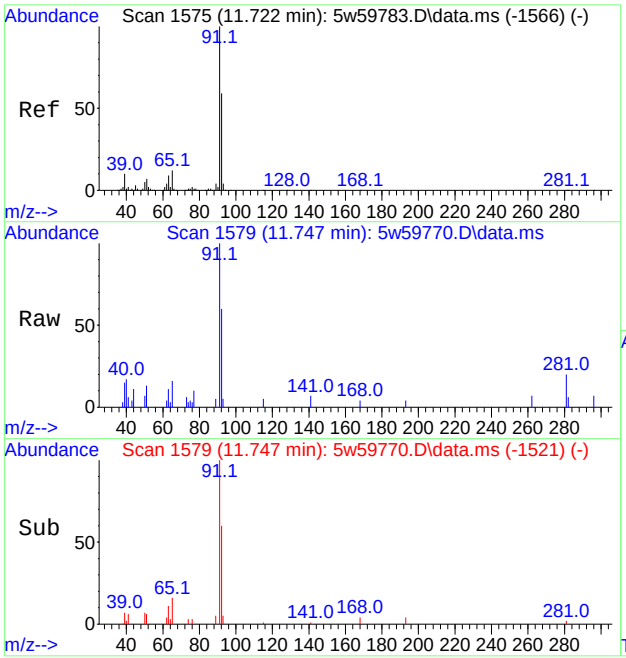


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 10.780 min Scan# 1421
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 10824

Ion	Ratio	Lower	Upper
75	100		
77	30.2	2.2	62.2
39	53.8	34.3	94.3

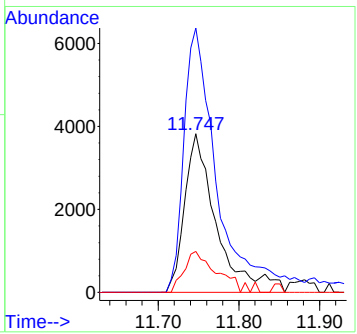


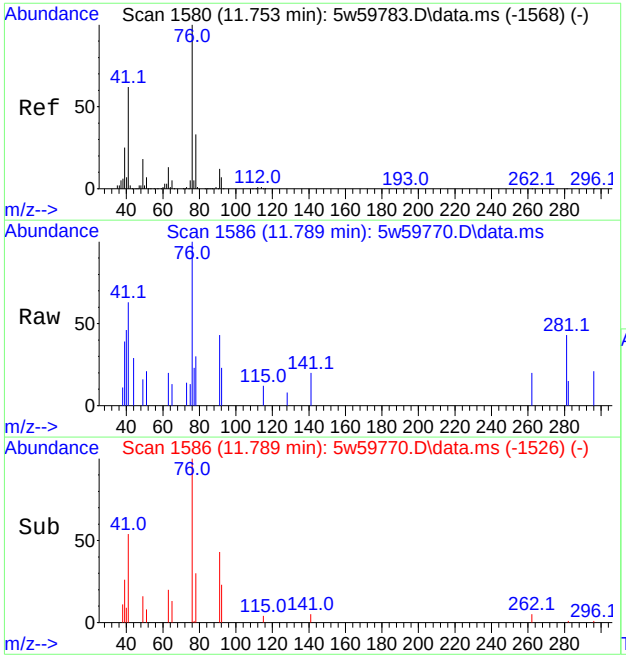


#66
TOLUENE
Concen: 0.10 PPBV
RT: 11.747 min Scan# 1579
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 92 Resp: 10446

Ion	Ratio	Lower	Upper
92	100		
91	184.4	140.1	200.1
65	27.5	0.0	53.1

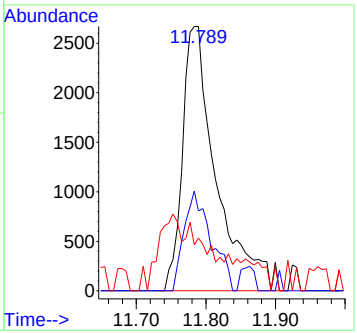


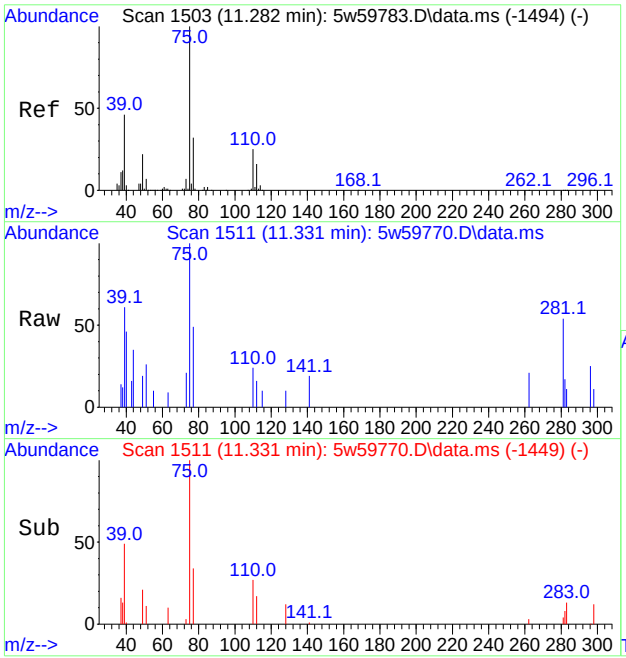


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 11.789 min Scan# 1586
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 76 Resp: 9064

Ion	Ratio	Lower	Upper
76	100		
78	30.1	23.2	43.0
63	0.0	7.1	13.1#

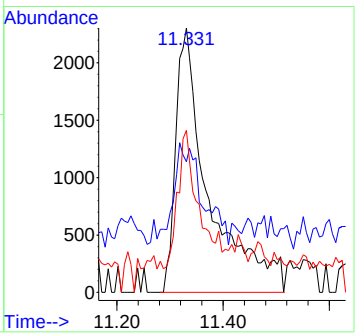


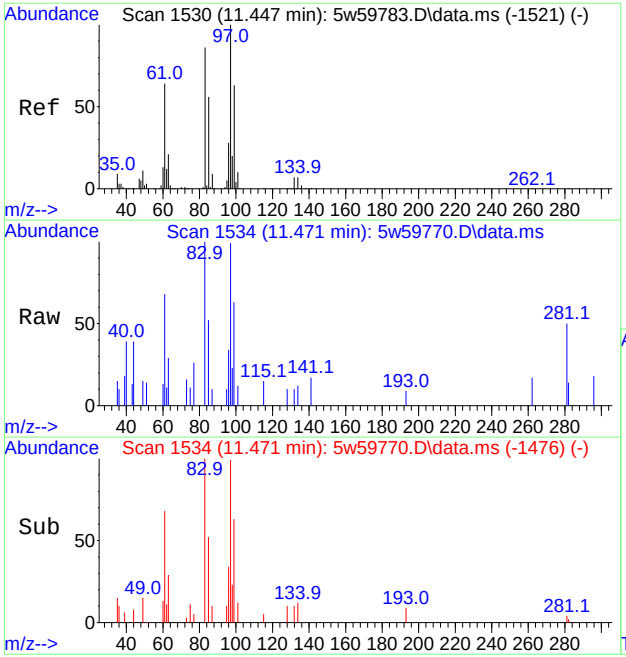


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.11 PPBV
RT: 11.331 min Scan# 1511
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 9955

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	58.2	16.1	76.1

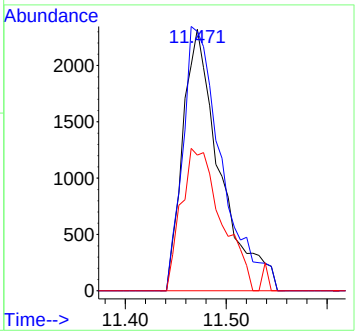


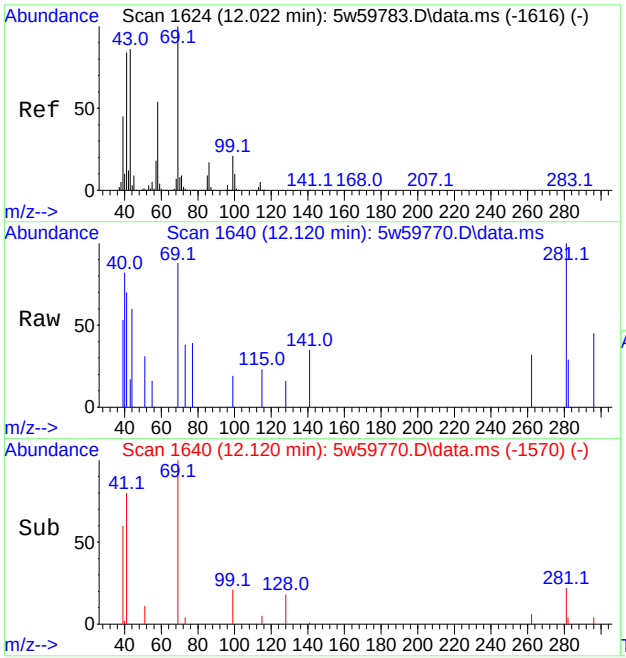


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 11.471 min Scan# 1534
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 5972

Ion	Ratio	Lower	Upper
83	100		
97	105.4	86.3	146.3
85	58.5	35.3	95.3

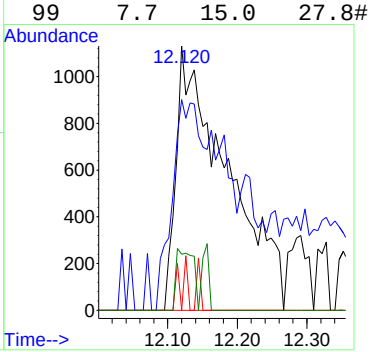


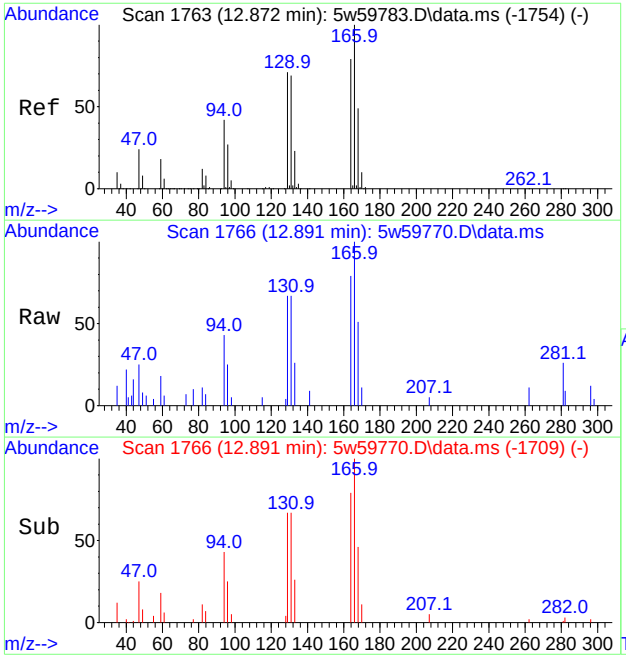


#72
ETHYL METHACRYLATE
Concen: 0.08 PPBV
RT: 12.120 min Scan# 1640
Delta R.T. 0.098 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 69 Resp: 5758

Ion	Ratio	Lower	Upper
69	100		
41	125.5	64.0	119.0#
86	0.0	12.0	22.4#
99	7.7	15.0	27.8#

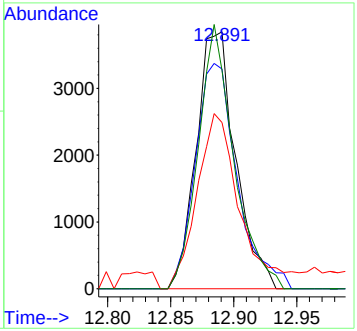


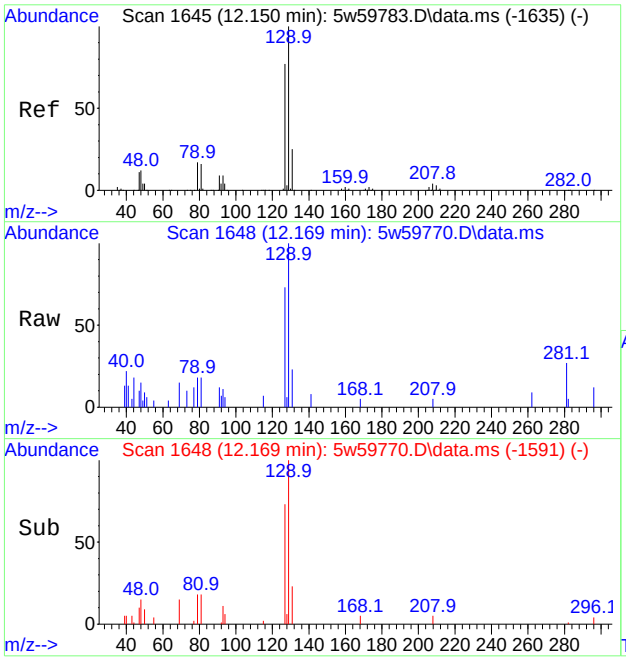


#73
TETRACHLOROETHYLENE
Concen: 0.12 PPBV
RT: 12.891 min Scan# 1766
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:164 Resp: 8344

Ion	Ratio	Lower	Upper
164	100		
129	93.5	59.7	119.7
168	81.8	32.2	92.2
131	93.3	57.8	117.8

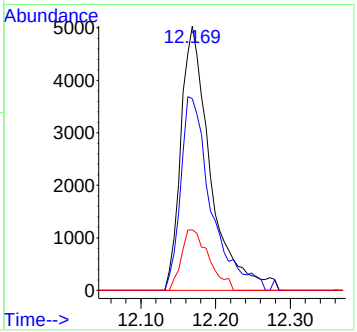


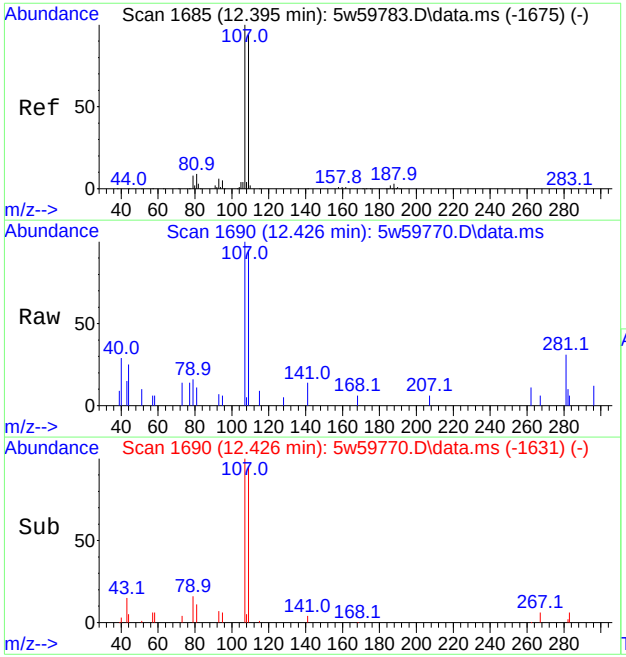


#74
DIBROMOCHLOROMETHANE
Concen: 0.11 PPBV
RT: 12.169 min Scan# 1648
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:129 Resp: 13809

Ion	Ratio	Lower	Upper
129	100		
127	75.3	47.1	107.1
131	21.3	0.0	54.5

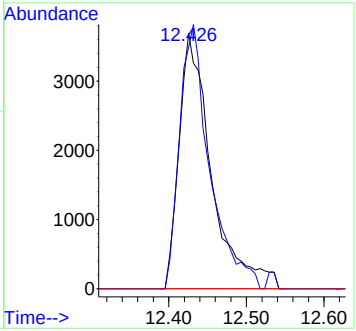


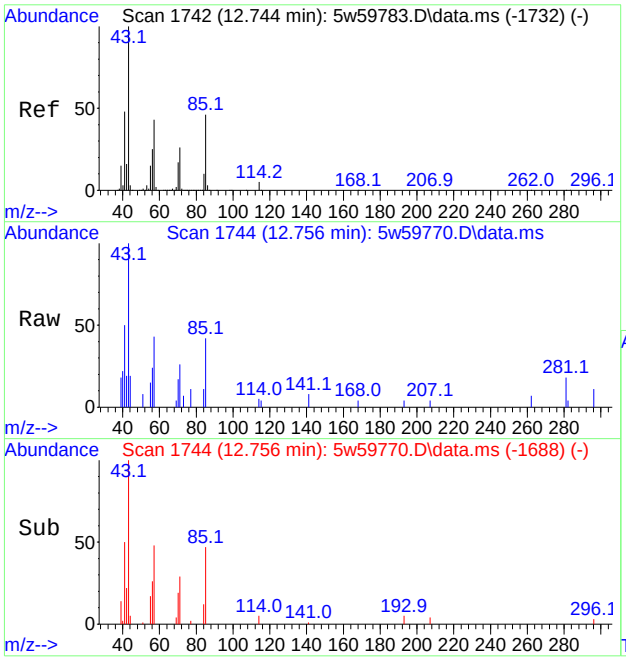


#75
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 12.426 min Scan# 1690
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:107 Resp: 10727

Ion	Ratio	Lower	Upper
107	100		
109	96.3	64.8	124.8
188	0.0	0.0	32.8

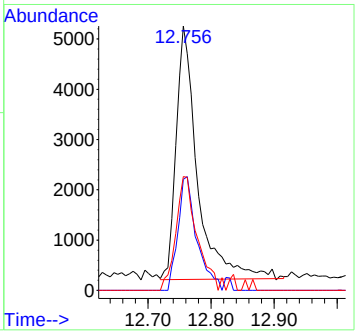


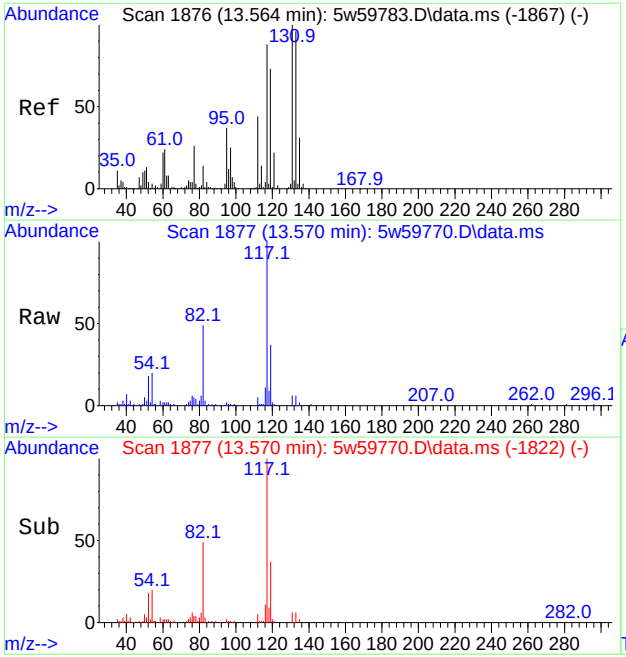


#76
OCTANE
Concen: 0.13 PPBV
RT: 12.756 min Scan# 1744
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 11856

Ion	Ratio	Lower	Upper
43	100		
85	39.5	14.6	74.6
57	45.0	13.7	73.7

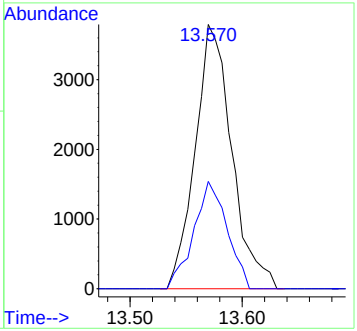


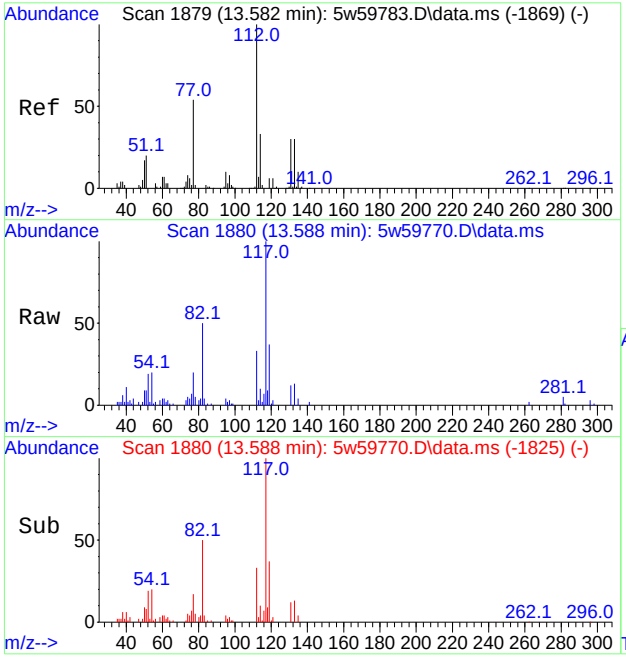


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.11 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:131 Resp: 8635

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

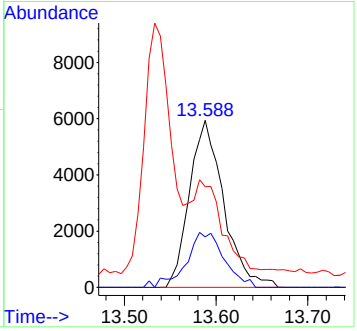


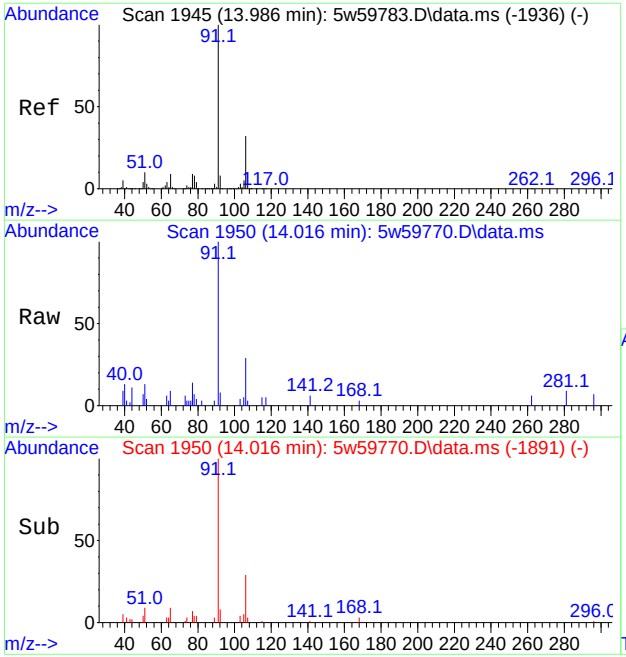


#78
CHLOROBENZENE
Concen: 0.12 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:112 Resp: 15456

Ion	Ratio	Lower	Upper
112	100		
114	36.4	2.6	62.6
77	0.0	25.4	85.4#

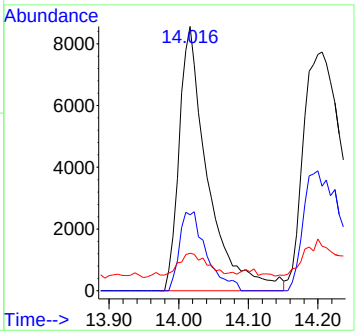


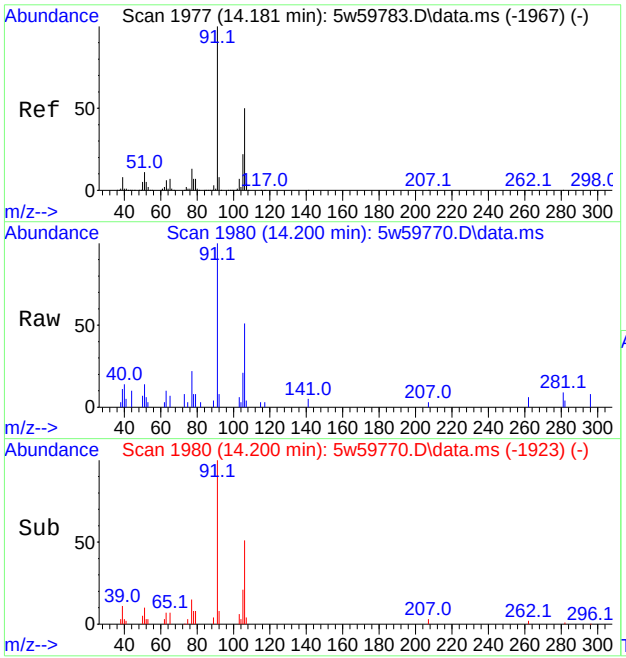


#79
ETHYLBENZENE
Concen: 0.12 PPBV
RT: 14.016 min Scan# 1950
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 24398

Ion	Ratio	Lower	Upper
91	100		
106	28.2	1.3	61.3
77	8.1	0.0	38.6

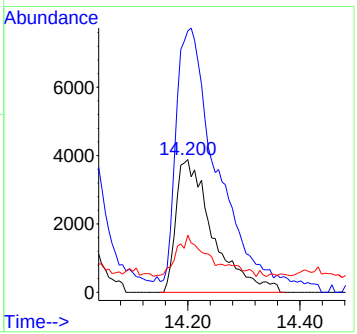


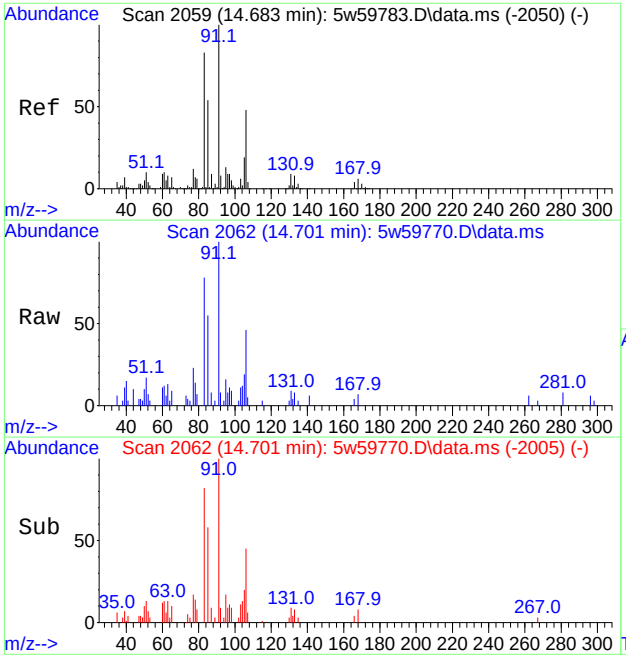


#80
m,p-XYLENE
Concen: 0.22 PPBV
RT: 14.200 min Scan# 1980
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 17695

Ion	Ratio	Lower	Upper
106	100		
91	196.6	171.0	231.0
77	43.1	0.0	56.7

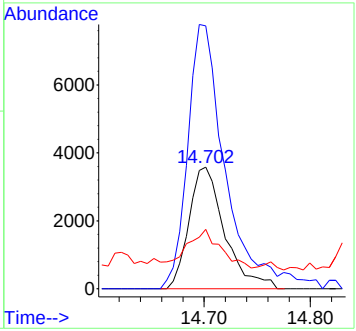


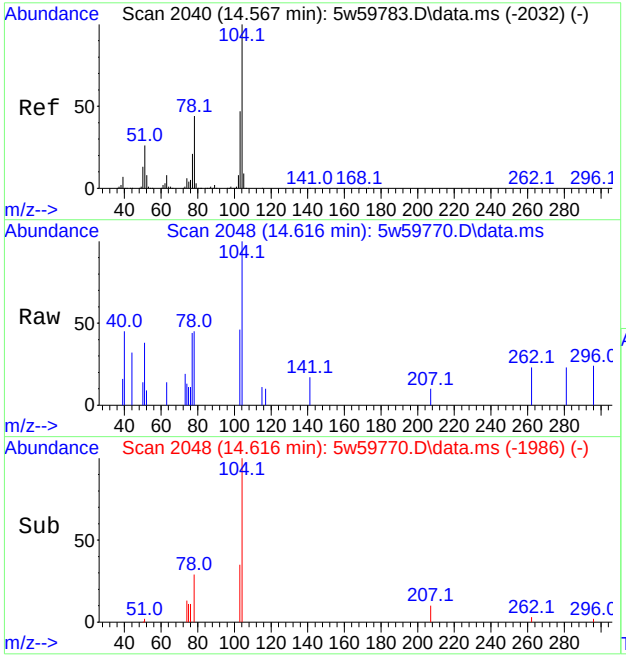


#81
o-XYLENE
Concen: 0.11 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:106 Resp: 8363

Ion	Ratio	Lower	Upper
106	100		
91	232.2	181.6	241.6
77	28.4	0.0	56.6

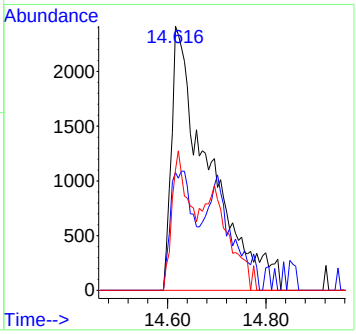


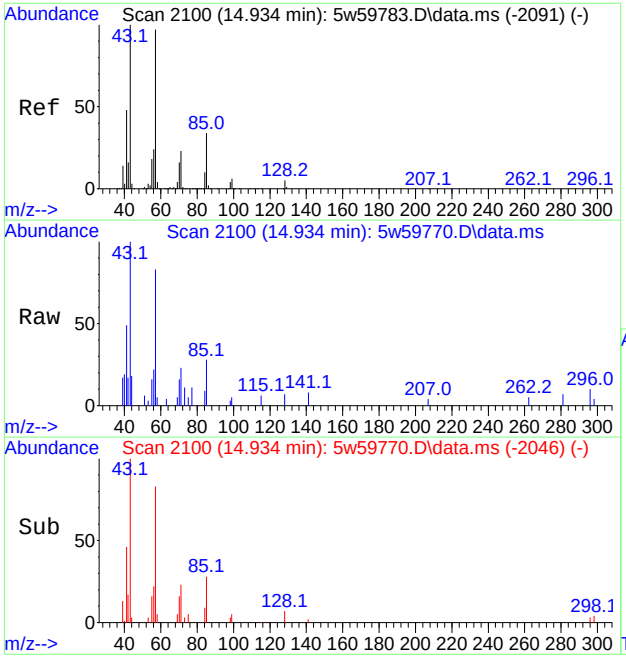


#82
STYRENE
Concen: 0.11 PPBV
RT: 14.616 min Scan# 2048
Delta R.T. 0.049 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:104 Resp: 12755

Ion	Ratio	Lower	Upper
104	100		
78	58.0	13.3	73.3
103	54.2	17.2	77.2

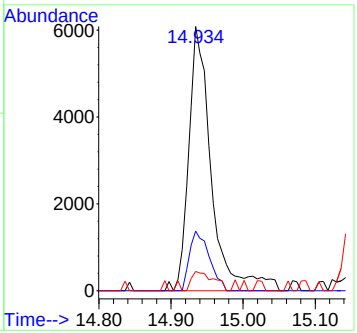


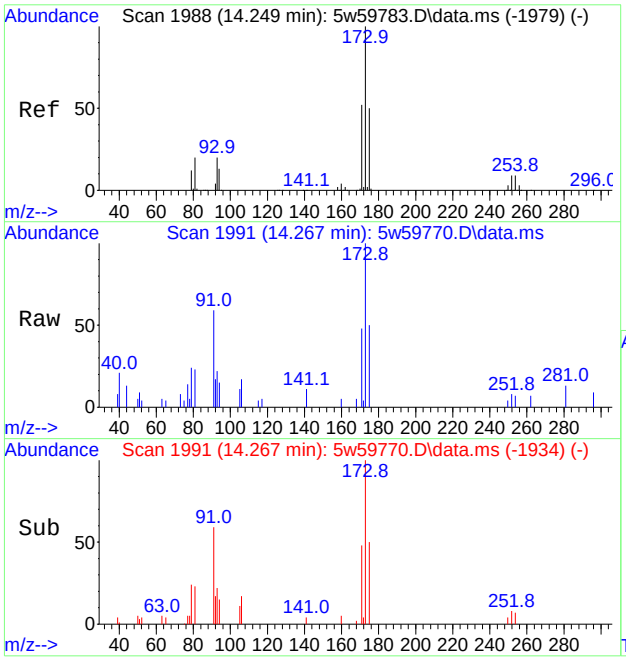


#83
NONANE
Concen: 0.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 43 Resp: 13253

Ion	Ratio	Lower	Upper
43	100		
71	19.7	0.0	52.7
128	7.1	0.0	34.7

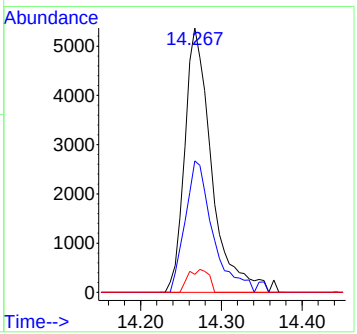


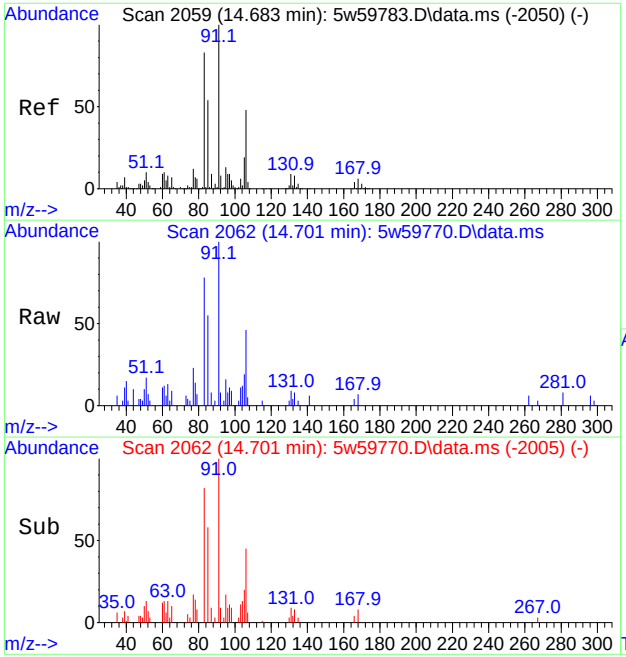


#84
BROMOFORM
Concen: 0.10 PPBV
RT: 14.267 min Scan# 1991
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:173 Resp: 12500

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	6.7	0.0	39.0

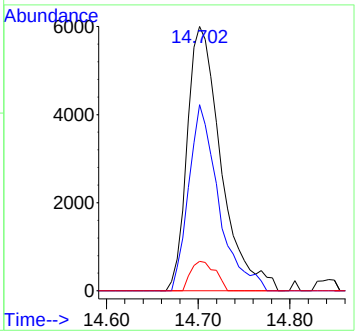


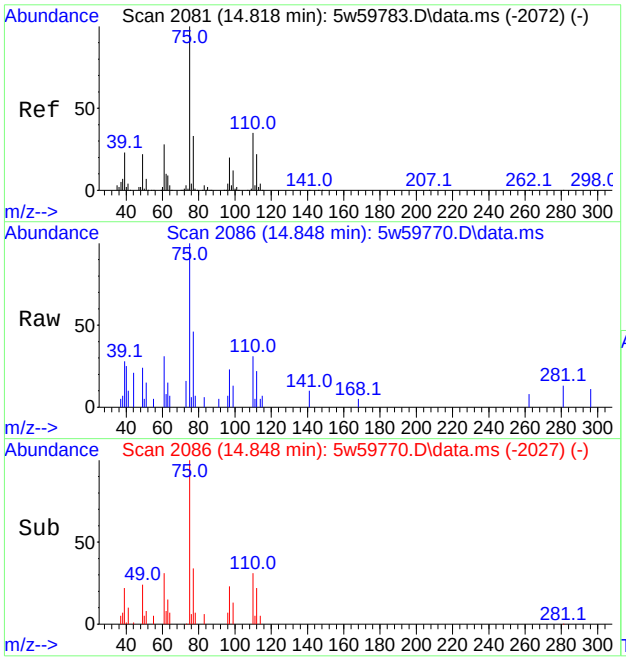


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.12 PPBV
RT: 14.701 min Scan# 2062
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 83 Resp: 15380

Ion	Ratio	Lower	Upper
83	100		
85	62.5	35.2	95.2
131	8.1	0.0	40.3

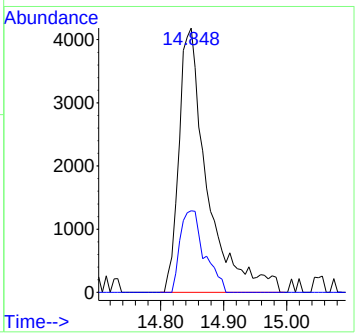


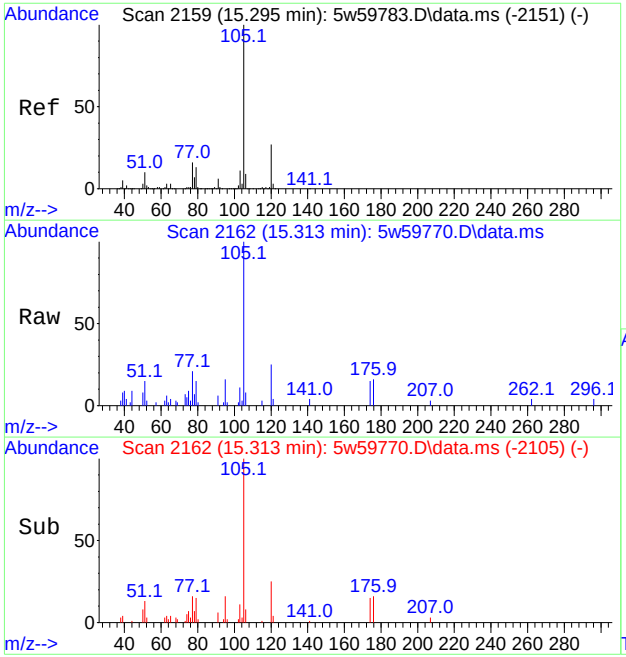


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.13 PPBV
RT: 14.848 min Scan# 2086
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 75 Resp: 13012

Ion	Ratio	Lower	Upper
75	100		
110	26.6	4.4	64.4

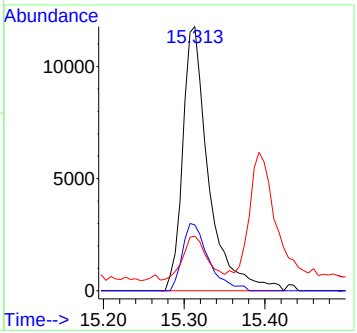


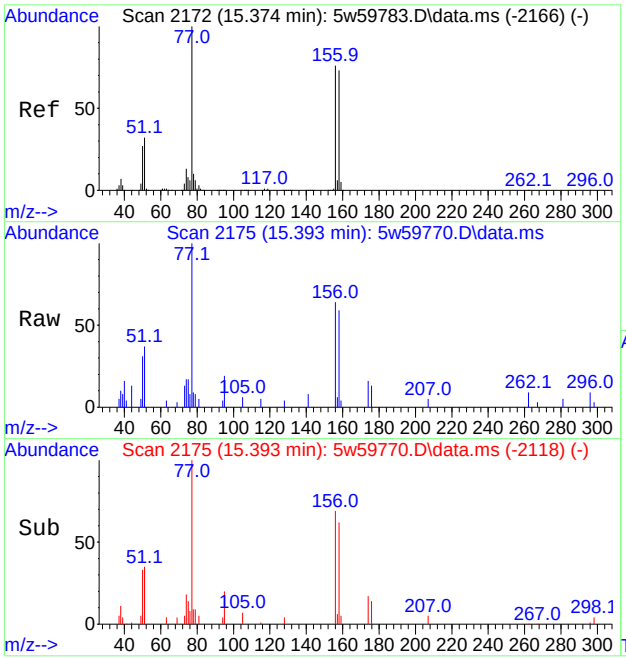


#88
ISOPROPYLBENZENE
Concen: 0.12 PPBV
RT: 15.313 min Scan# 2162
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 26261

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	17.6	0.0	45.6

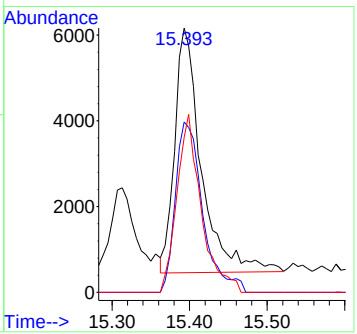


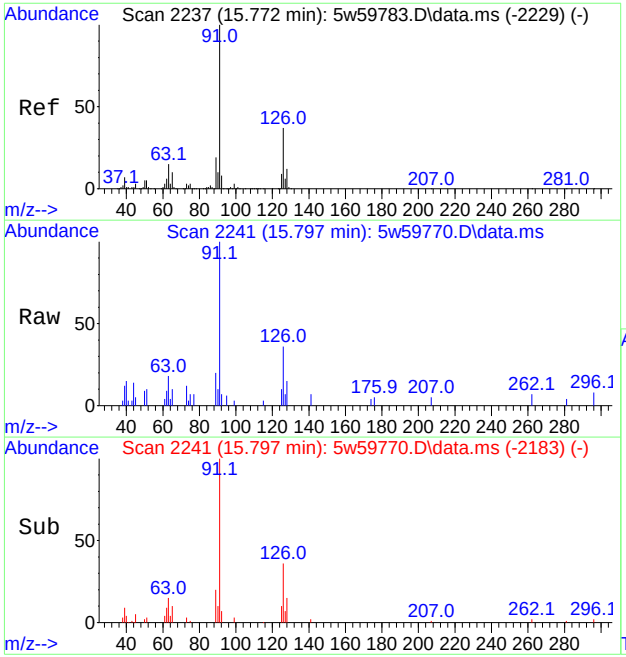


#89
BROMOBENZENE
Concen: 0.12 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 77 Resp: 13681

Ion	Ratio	Lower	Upper
77	100		
156	71.4	54.9	101.9
158	66.2	53.5	99.3

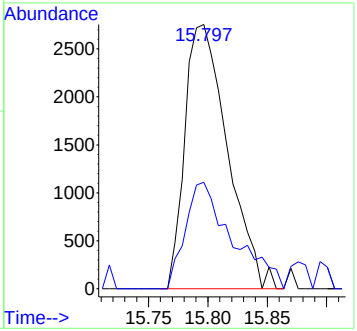


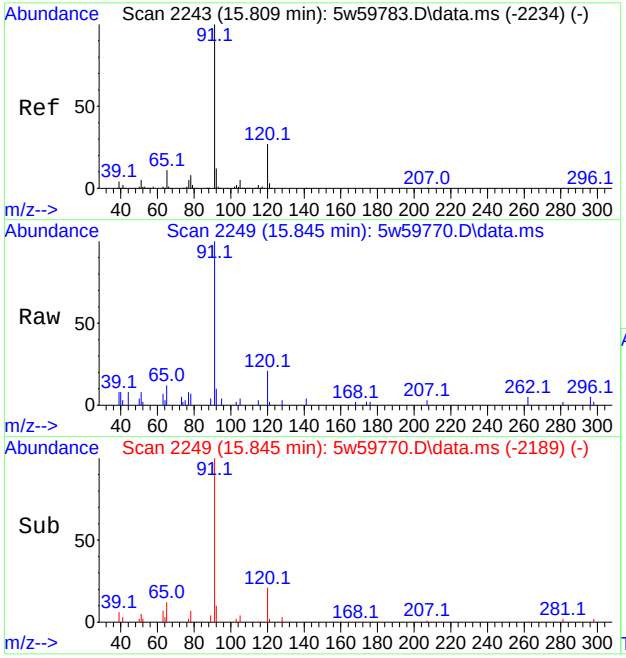


#90
2-CHLOROTOLUENE
Concen: 0.11 PPBV
RT: 15.797 min Scan# 2241
Delta R.T. 0.025 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:126 Resp: 6870

Ion	Ratio	Lower	Upper
126	100		
128	44.7	2.7	62.7

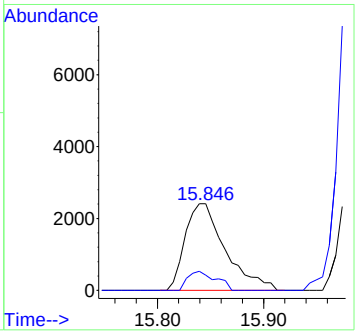


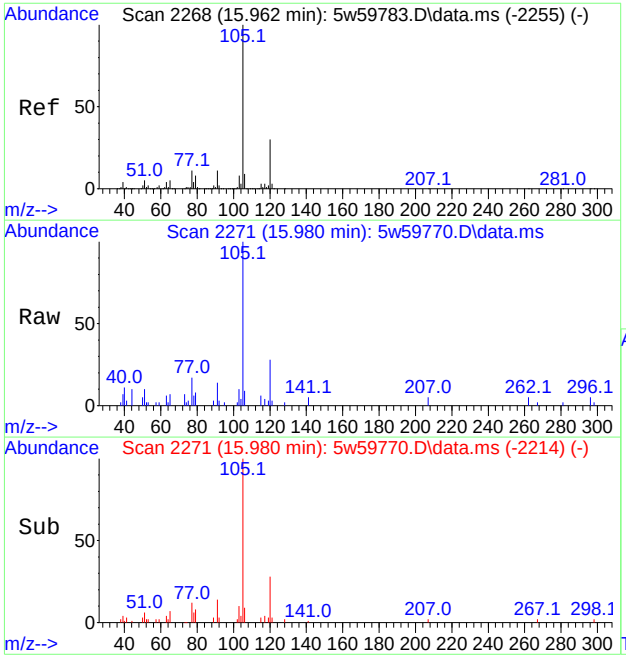


#91
n-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.845 min Scan# 2249
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:120 Resp: 6334

Ion	Ratio	Lower	Upper
120	100		
105	15.4	0.0	47.0

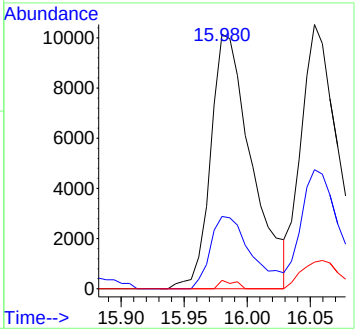


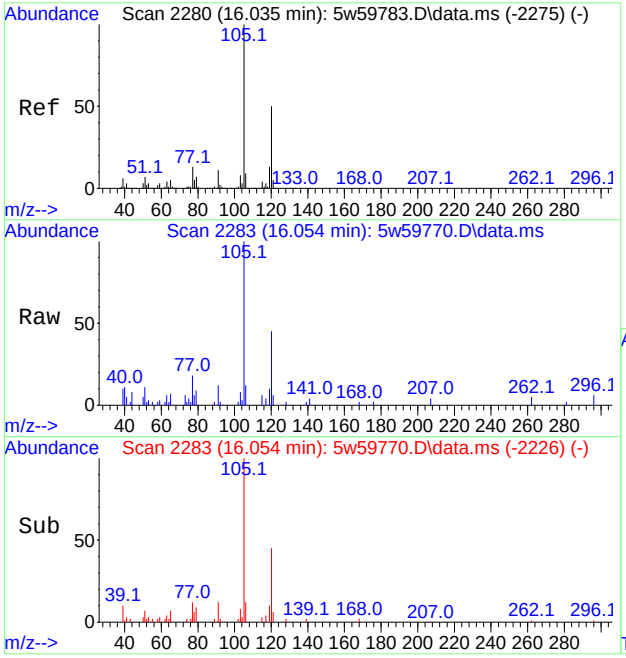


#92
4-ETHYLTOLUENE
Concen: 0.11 PPBV
RT: 15.980 min Scan# 2271
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 22792

Ion	Ratio	Lower	Upper
105	100		
120	29.0	0.0	59.9
119	1.3	0.0	32.3

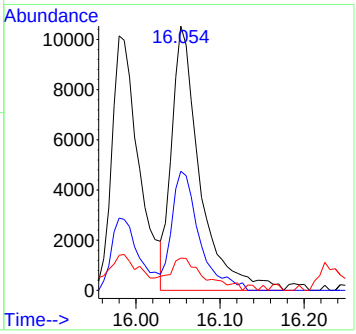


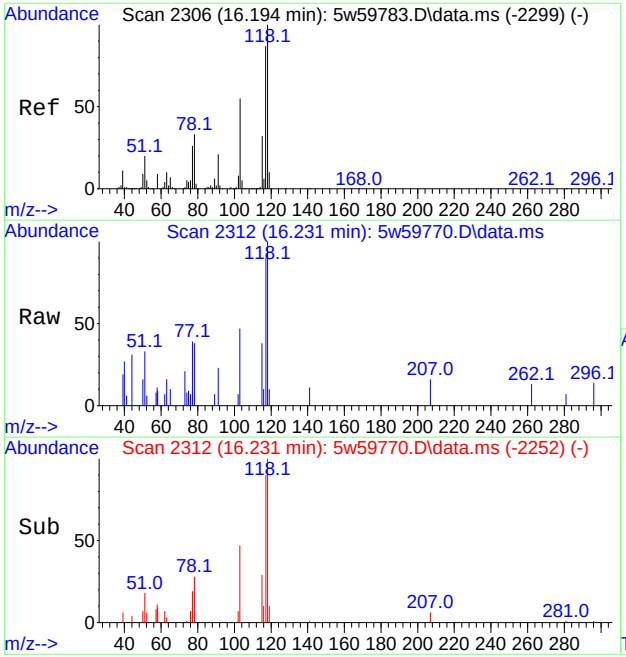


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.13 PPBV
RT: 16.054 min Scan# 2283
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 24501

Ion	Ratio	Lower	Upper
105	100		
120	43.9	19.4	79.4
91	14.7	0.0	40.8

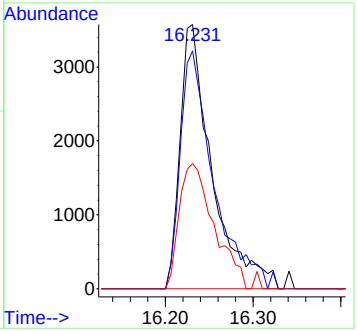


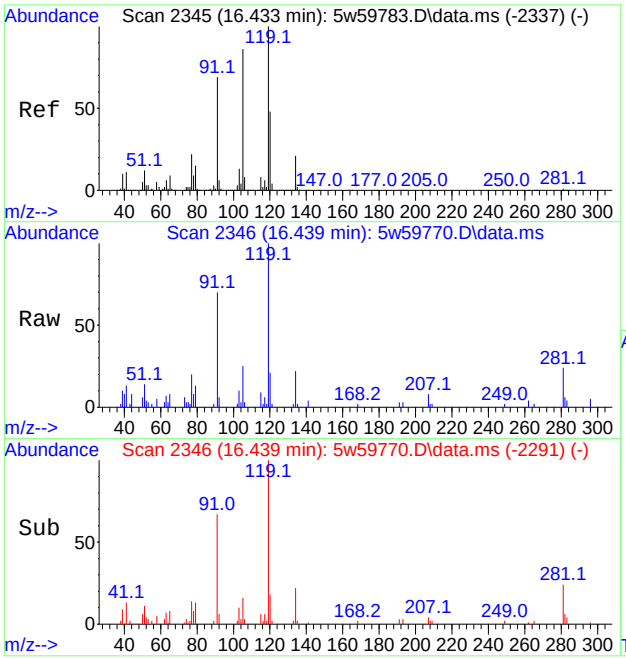


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.231 min Scan# 2312
Delta R.T. 0.037 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:118 Resp: 9018

Ion	Ratio	Lower	Upper
118	100		
117	94.5	60.9	113.1
103	51.7	38.6	71.8

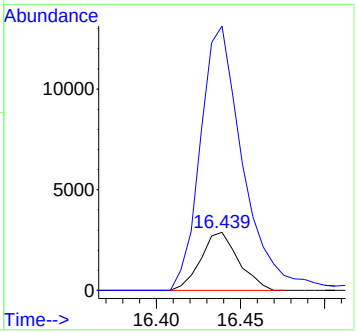


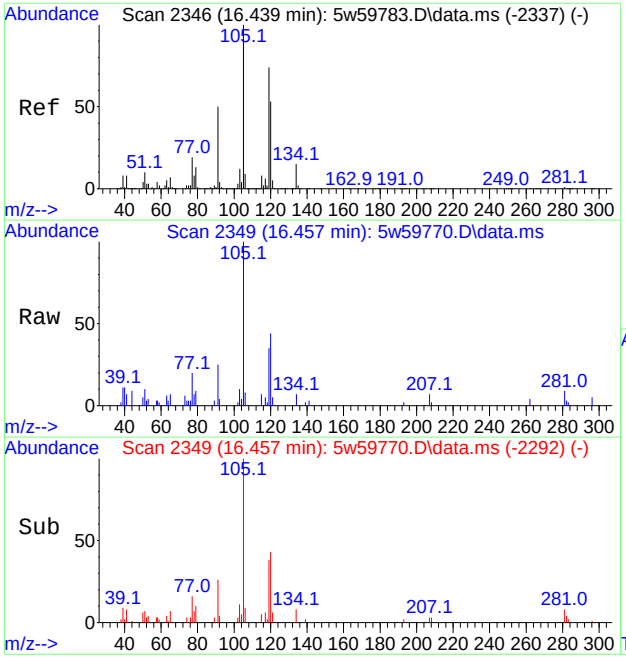


#95
tert-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 4502

Ion	Ratio	Lower	Upper
134	100		
119	518.7	459.3	519.3

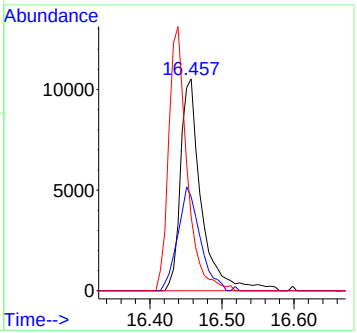


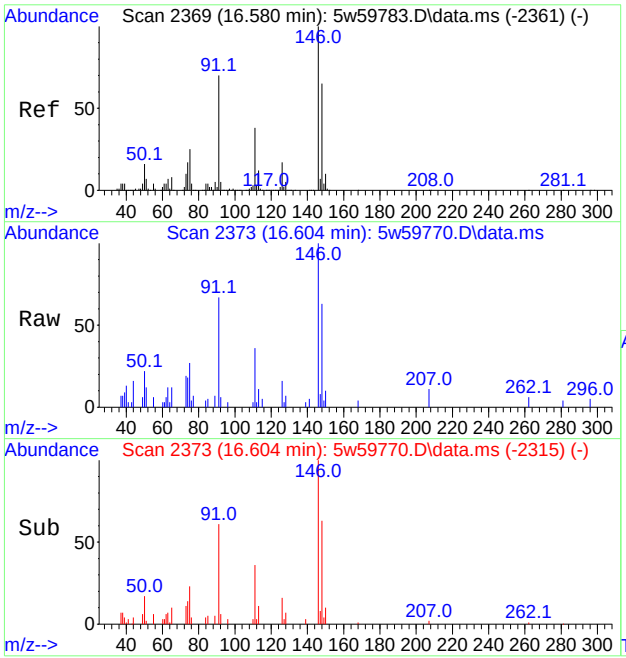


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.457 min Scan# 2349
Delta R.T. 0.018 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 21144

Ion	Ratio	Lower	Upper
105	100		
120	52.5	25.7	85.7
119	110.4	75.7	135.7

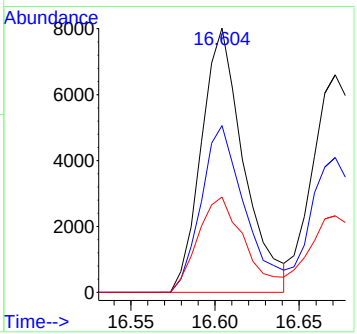


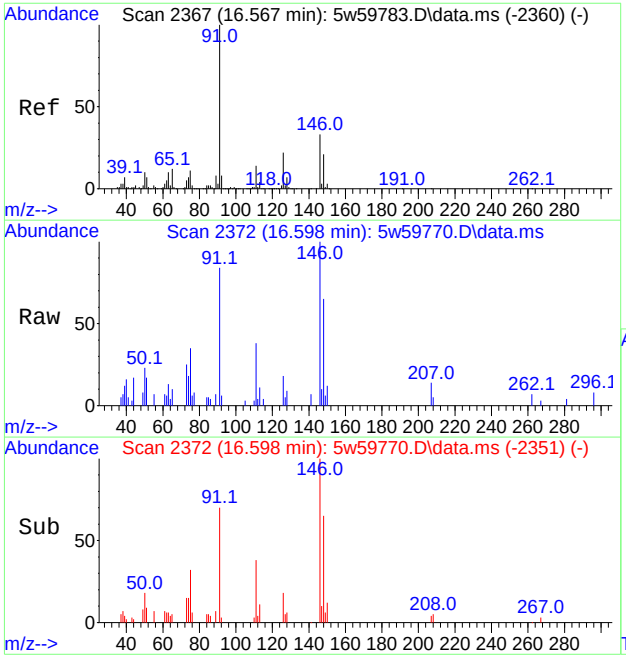


#97
m-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.604 min Scan# 2373
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 14099

Ion	Ratio	Lower	Upper
146	100		
148	65.5	34.8	94.8
111	40.2	8.2	68.2

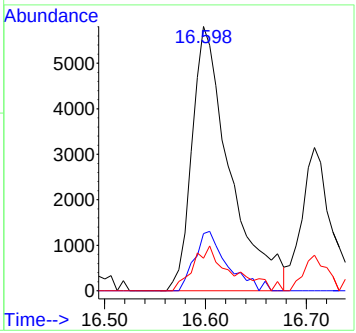


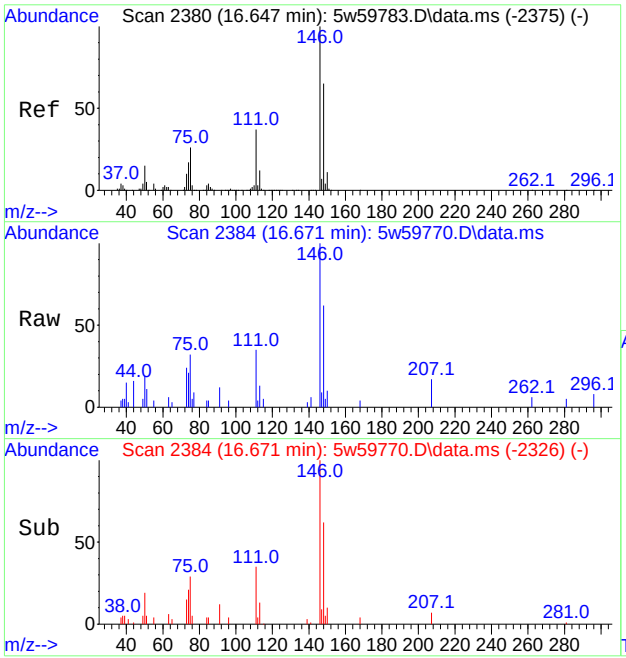


#98
BENZYL CHLORIDE
Concen: 0.09 PPBV
RT: 16.598 min Scan# 2372
Delta R.T. 0.031 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion: 91 Resp: 15140

Ion	Ratio	Lower	Upper
91	100		
126	19.2	0.0	51.7
65	16.9	0.0	42.2

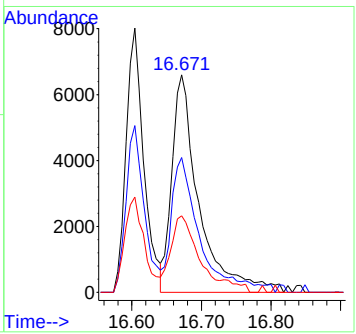


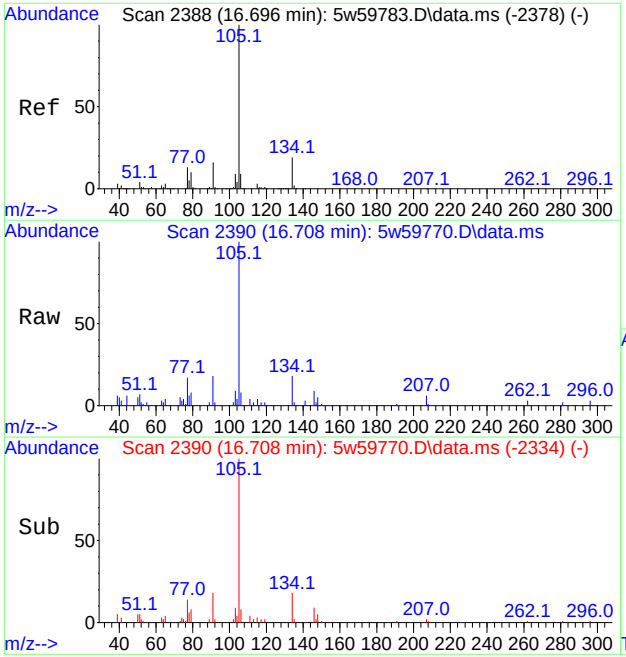


#99
p-DICHLOROBENZENE
Concen: 0.12 PPBV
RT: 16.671 min Scan# 2384
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 17844

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	38.4	6.7	66.7

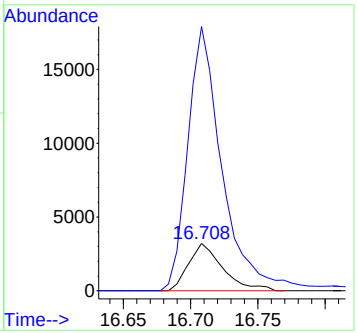


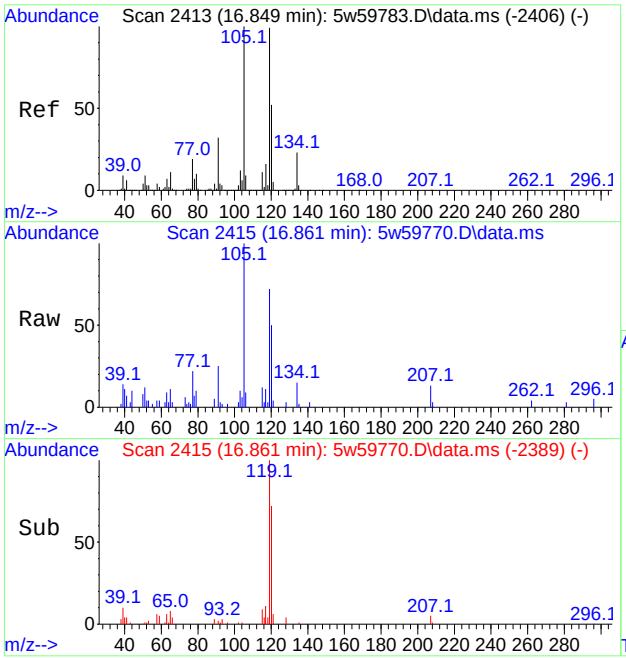


#100
sec-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.708 min Scan# 2390
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5680

Ion	Ratio	Lower	Upper
134	100		
105	572.9	502.5	562.5#

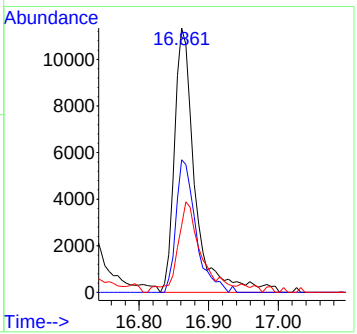


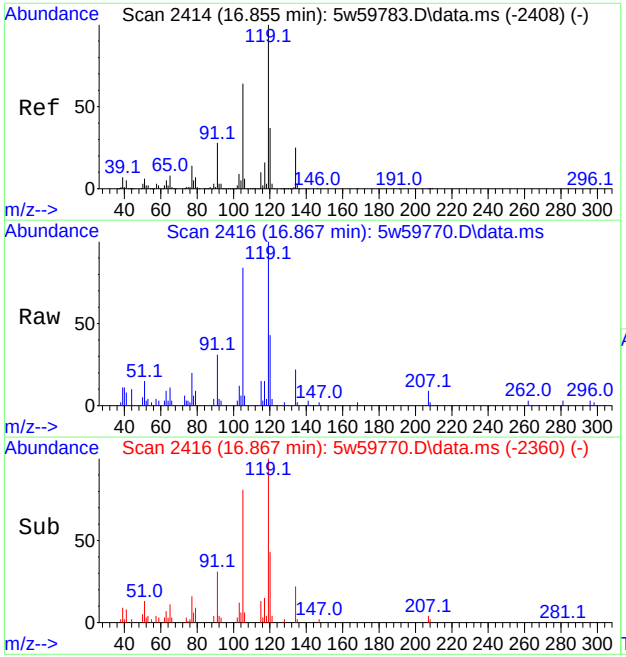


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:105 Resp: 23306

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.5	83.5
91	41.1	7.4	67.4

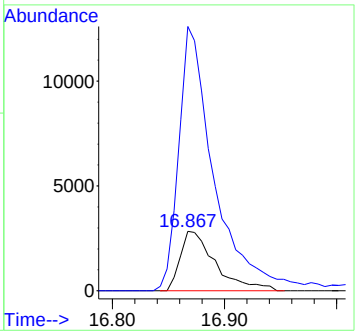


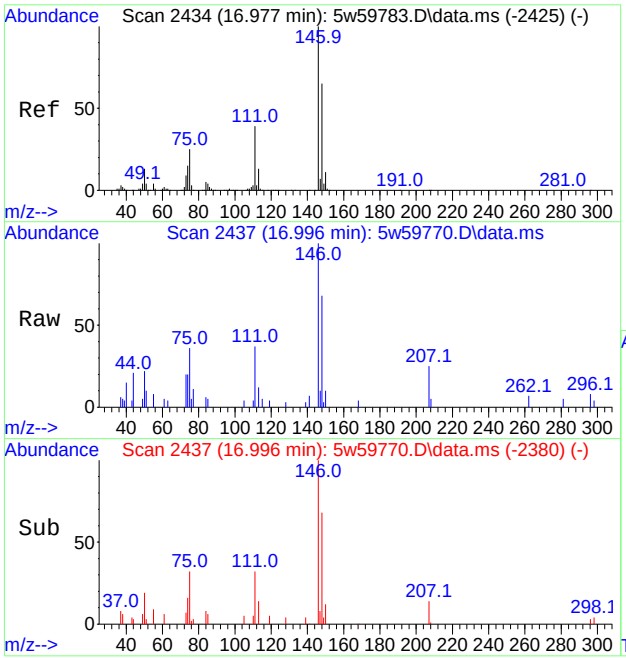


#102
p-ISOPROPYLTOLUENE
Concen: 0.11 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 6197

Ion	Ratio	Lower	Upper
134	100		
119	456.3	377.7	437.7#

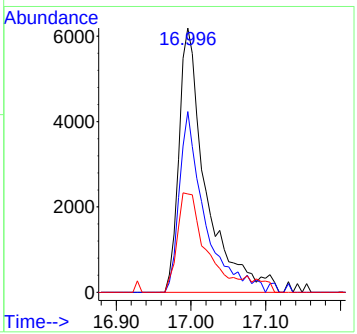


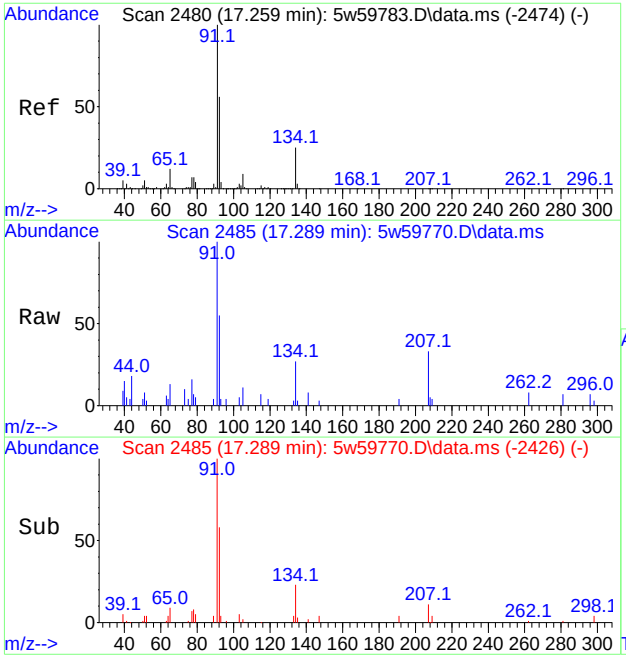


#103
o-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.996 min Scan# 2437
Delta R.T. 0.019 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:146 Resp: 15528

Ion	Ratio	Lower	Upper
146	100		
148	64.1	34.3	94.3
111	44.3	9.2	69.2

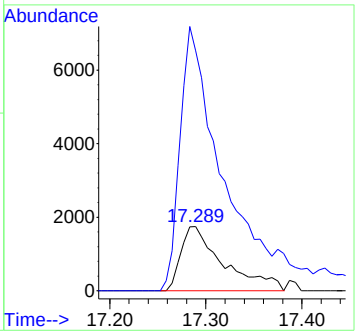


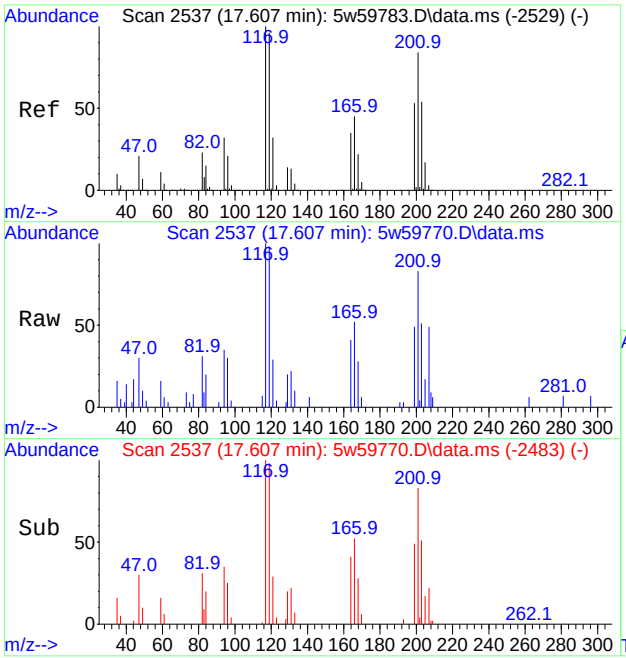


#104
n-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.289 min Scan# 2485
Delta R.T. 0.030 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:134 Resp: 5383

Ion	Ratio	Lower	Upper
134	100		
91	477.2	363.1	423.1#

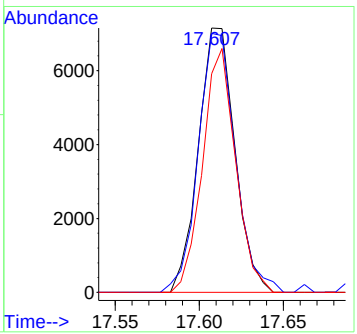


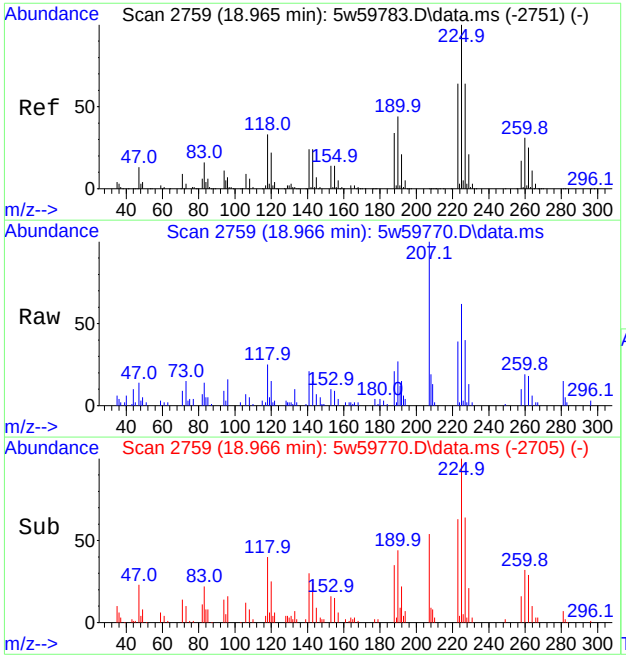


#105
HEXACHLOROETHANE
Concen: 0.11 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:117 Resp: 10817

Ion	Ratio	Lower	Upper
117	100		
119	99.7	67.2	124.8
201	83.6	61.1	113.5

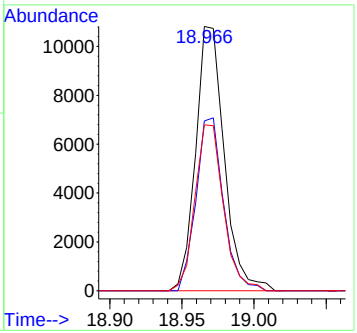


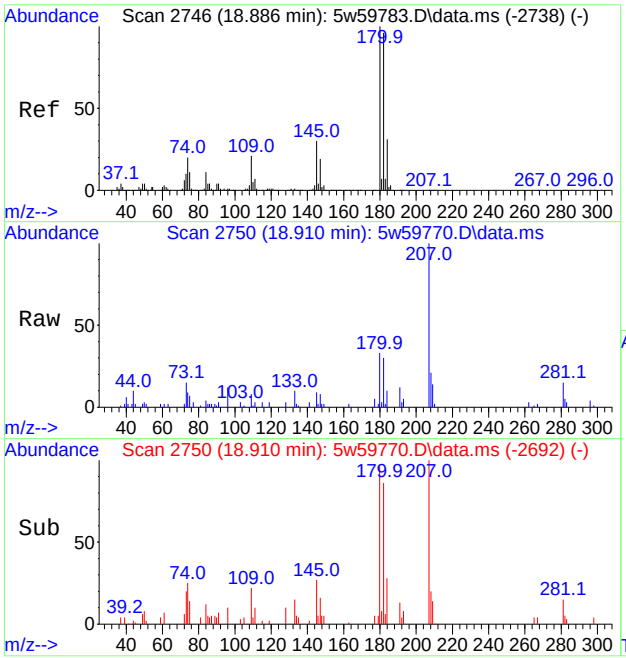


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:225 Resp: 14991

Ion	Ratio	Lower	Upper
225	100		
227	62.5	34.2	94.2
223	62.2	33.3	93.3

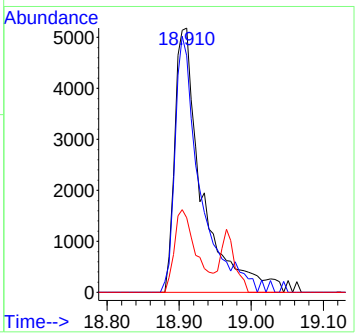


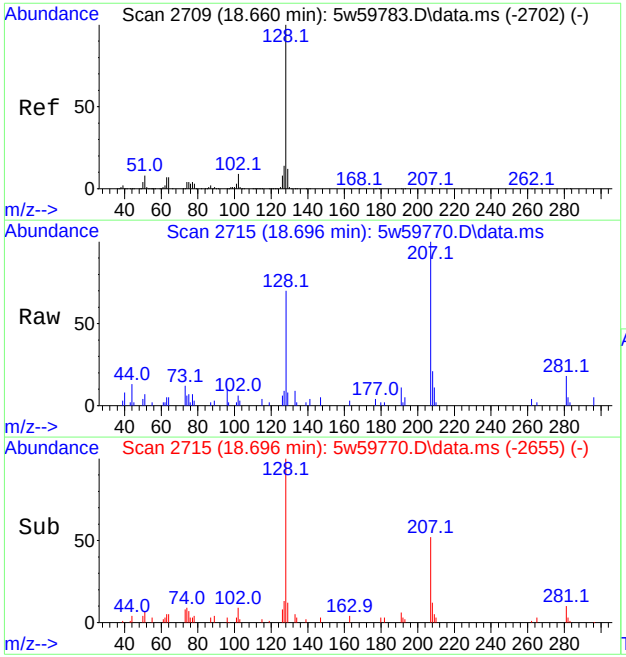


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.10 PPBV
RT: 18.910 min Scan# 2750
Delta R.T. 0.024 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:180 Resp: 13603

Ion	Ratio	Lower	Upper
180	100		
182	88.7	65.4	125.4
145	25.3	0.0	59.4

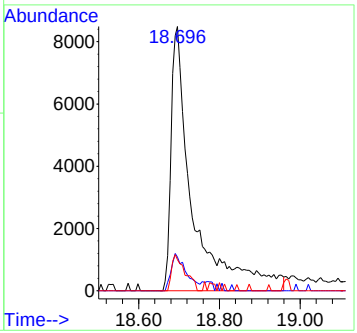


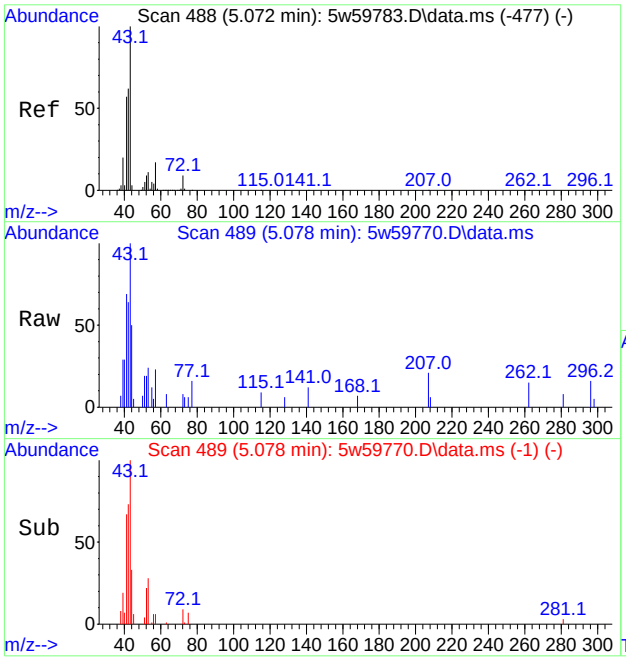


#108
NAPHTHALENE
Concen: 0.11 PPBV
RT: 18.696 min Scan# 2715
Delta R.T. 0.036 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:128 Resp: 31596

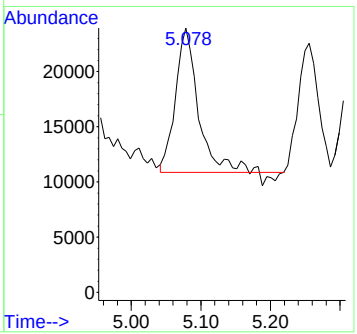
Ion	Ratio	Lower	Upper
128	100		
127	11.5	0.0	43.3
129	8.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.10 PPBV
RT: 5.078 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59770.D
Acq: 6 Nov 2025 11:11 pm

Tgt Ion:TIC Resp: 29029



Manual Integration Approval Summary

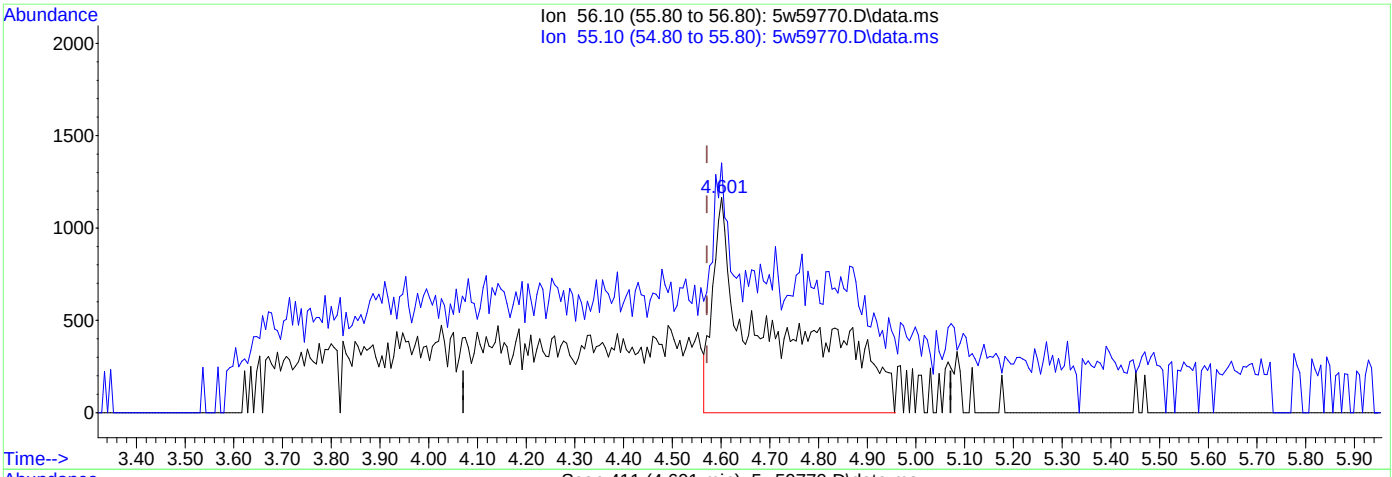
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59770.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:11 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

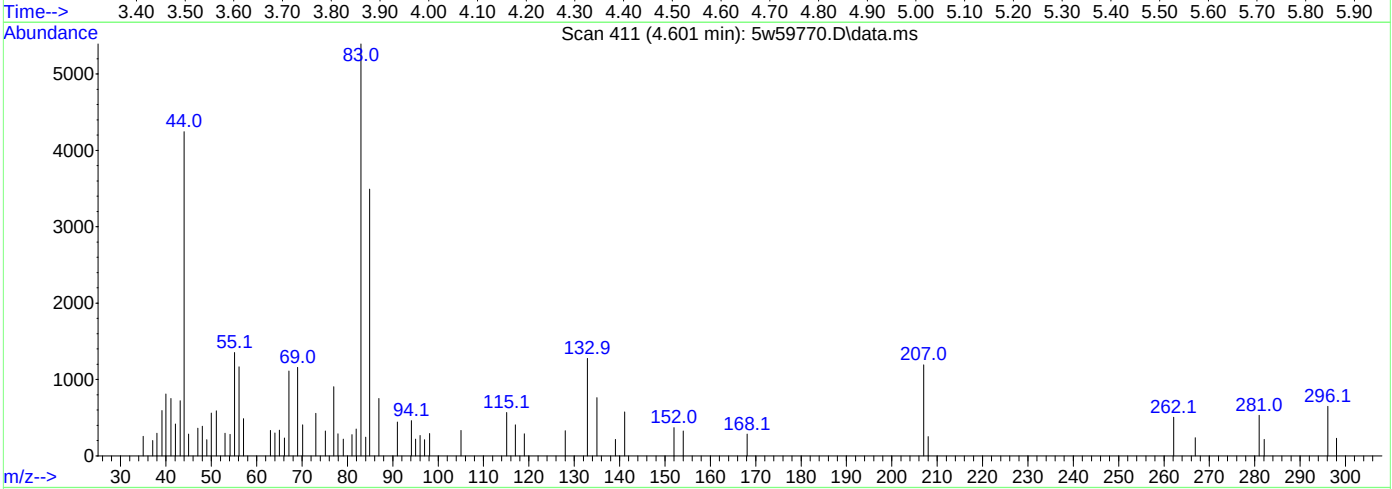
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		4.52	Poor instrument integration
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl ethyl ketone	78-93-3		6.92	Poor instrument integration
Methyl Acrylate	96-33-3		7.51	Missed peak
Ethyl Acetate	141-78-6		7.54	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.70PPBV

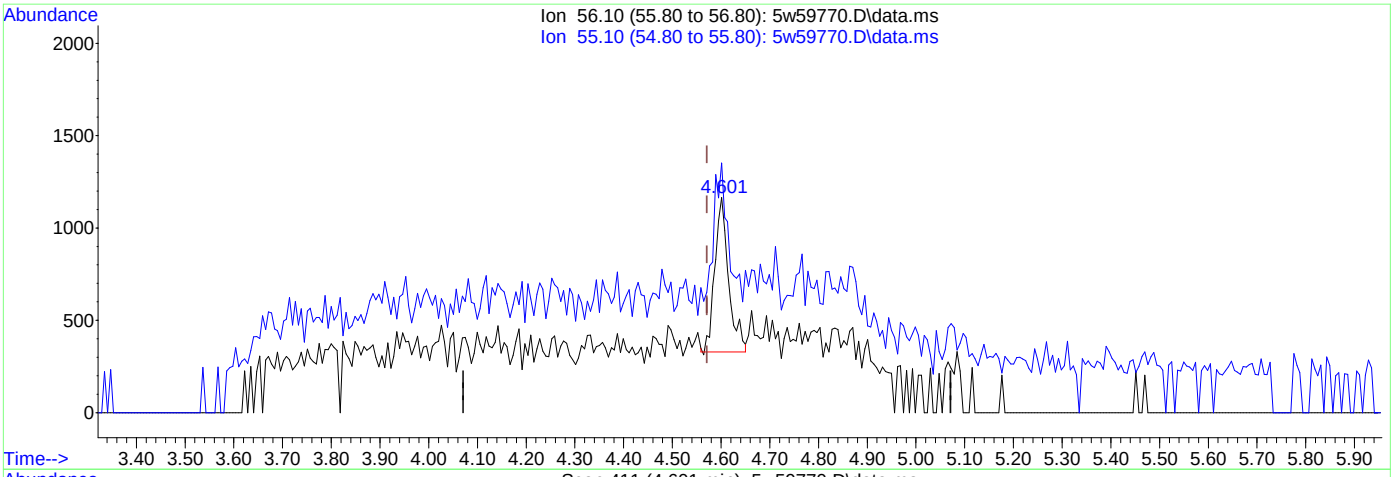
response 10153

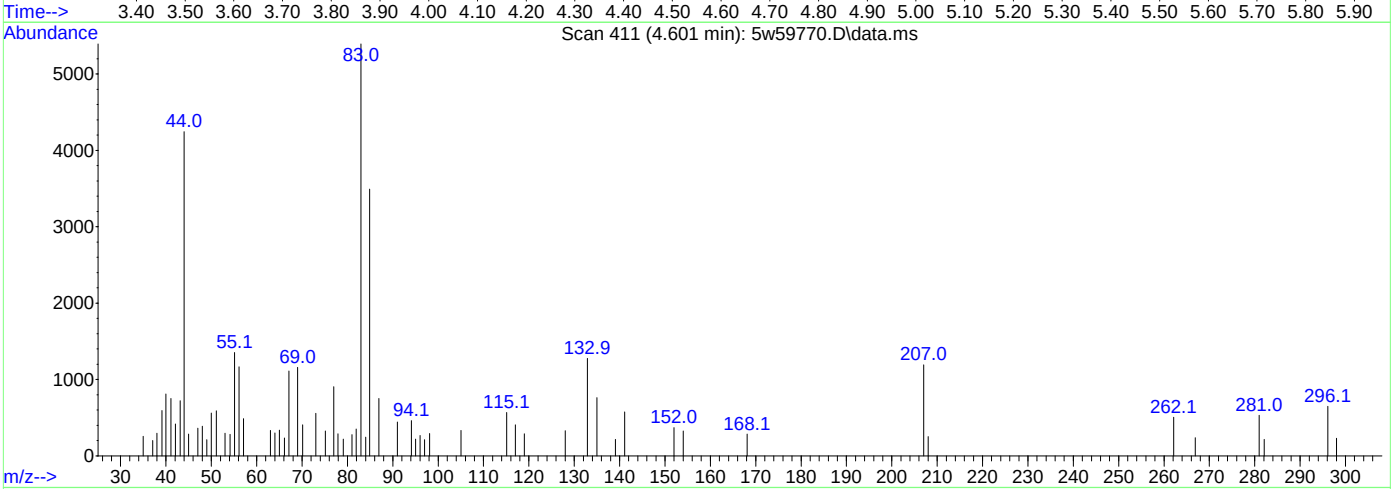
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	17.21#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(18) ACROLEIN

4.601min (+0.030) 0.11PPBV m

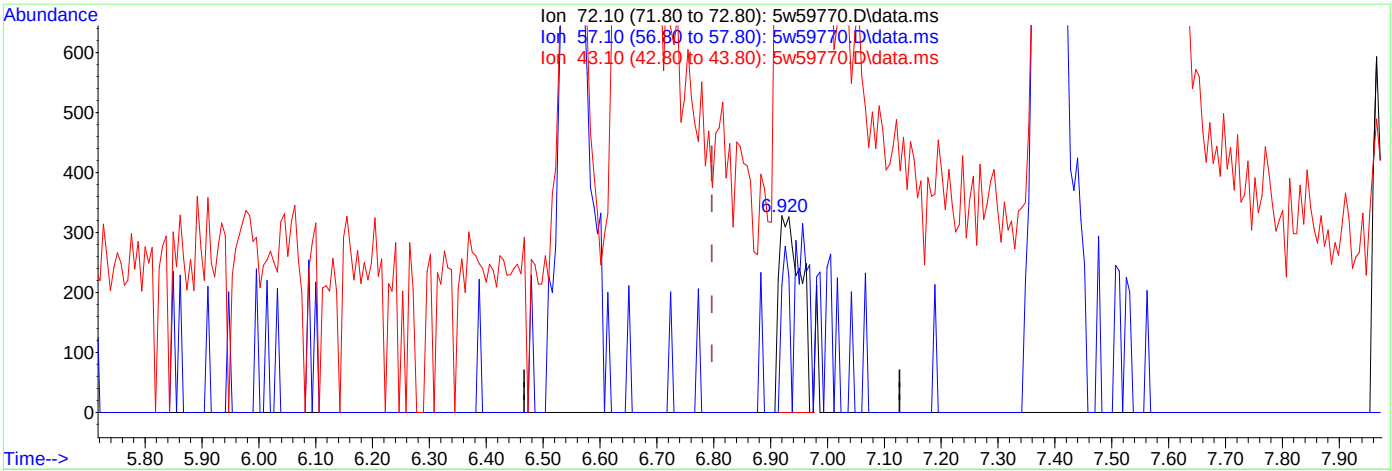
response 1642

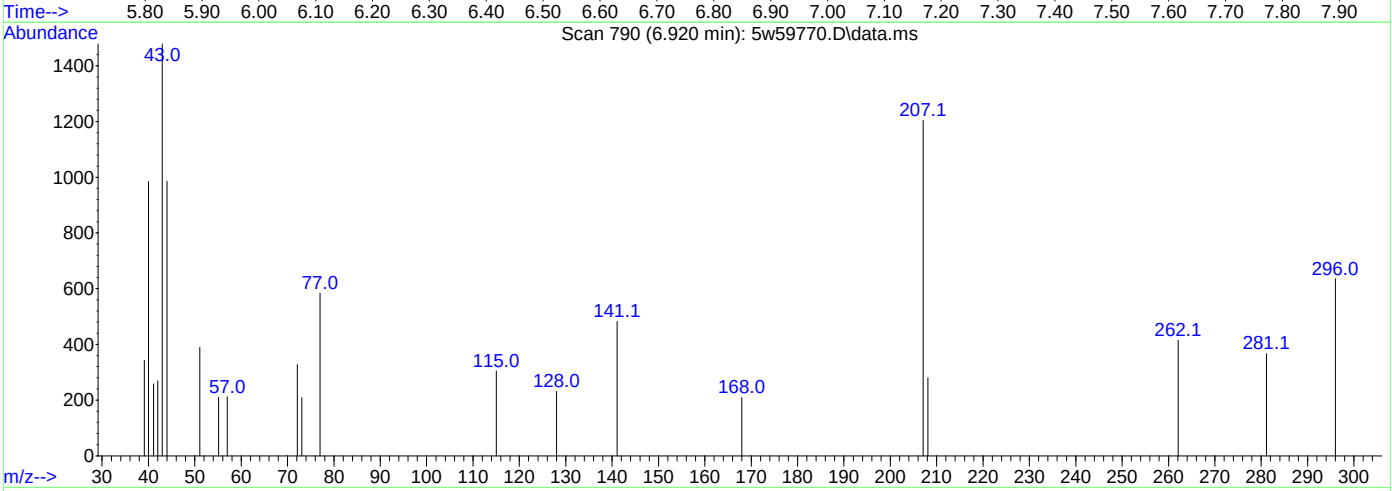
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	106.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.04PPBV

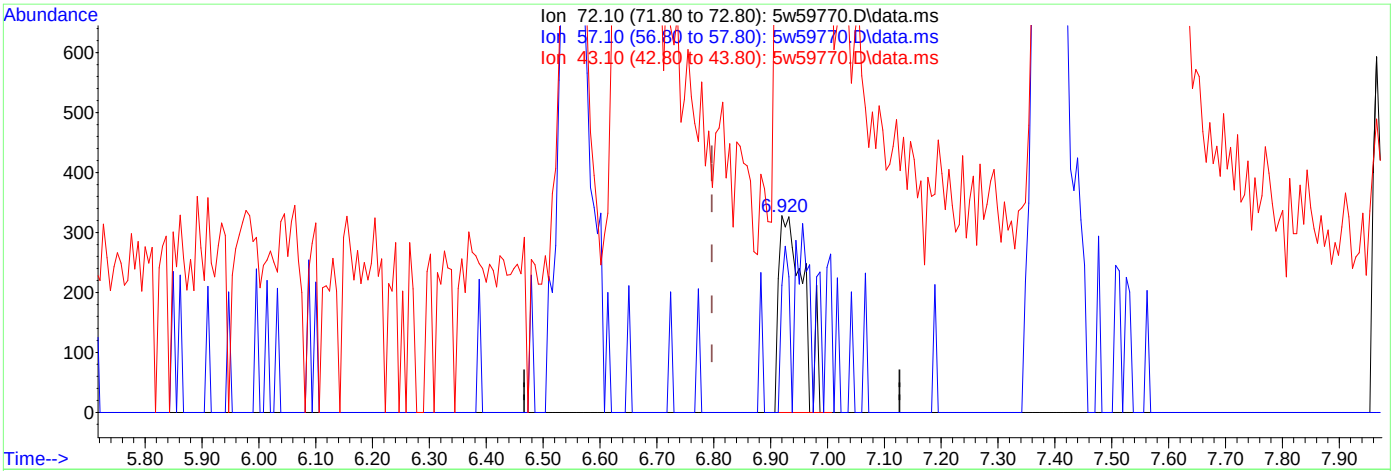
response 878

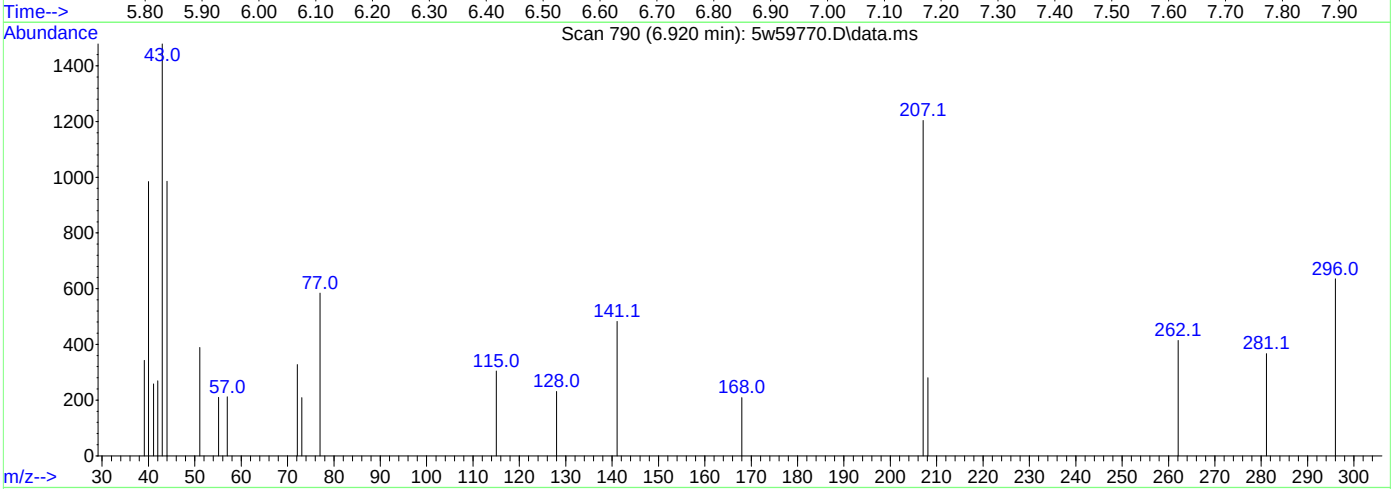
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:18:18 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(41) METHYL ETHYL KETONE

6.920min (+0.123) 0.05PPBV m

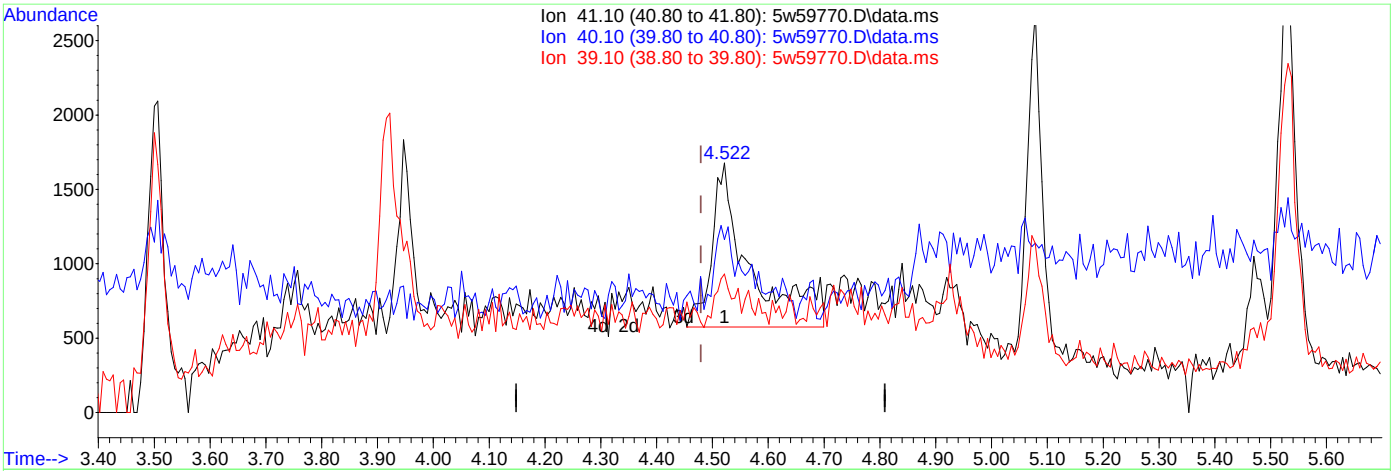
response 956

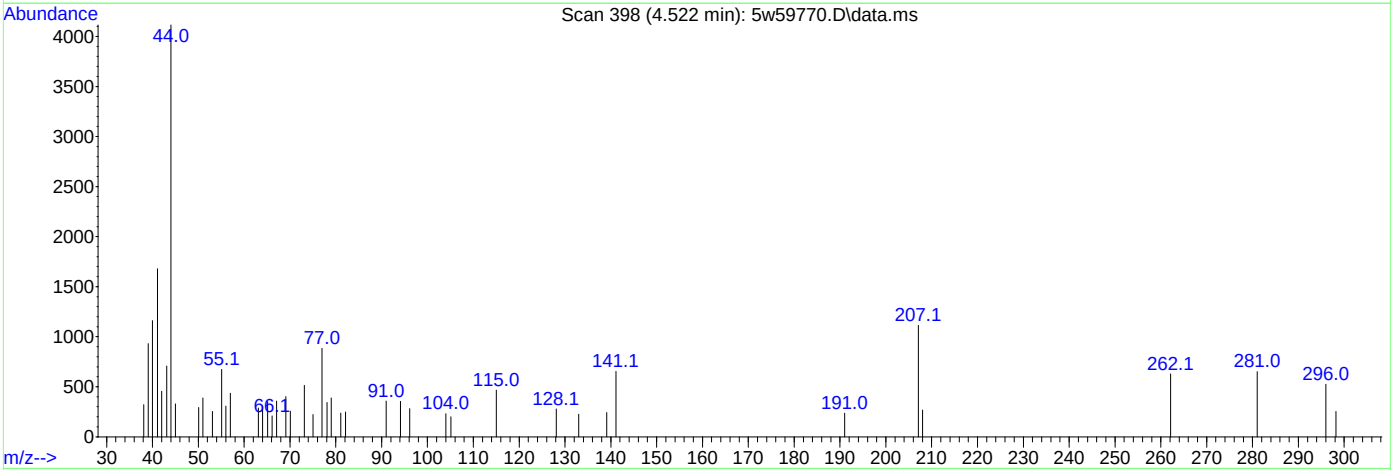
Ion	Exp%	Act%
72.10	100	100
57.10	34.80	64.63
43.10	445.90	450.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.21PPBV

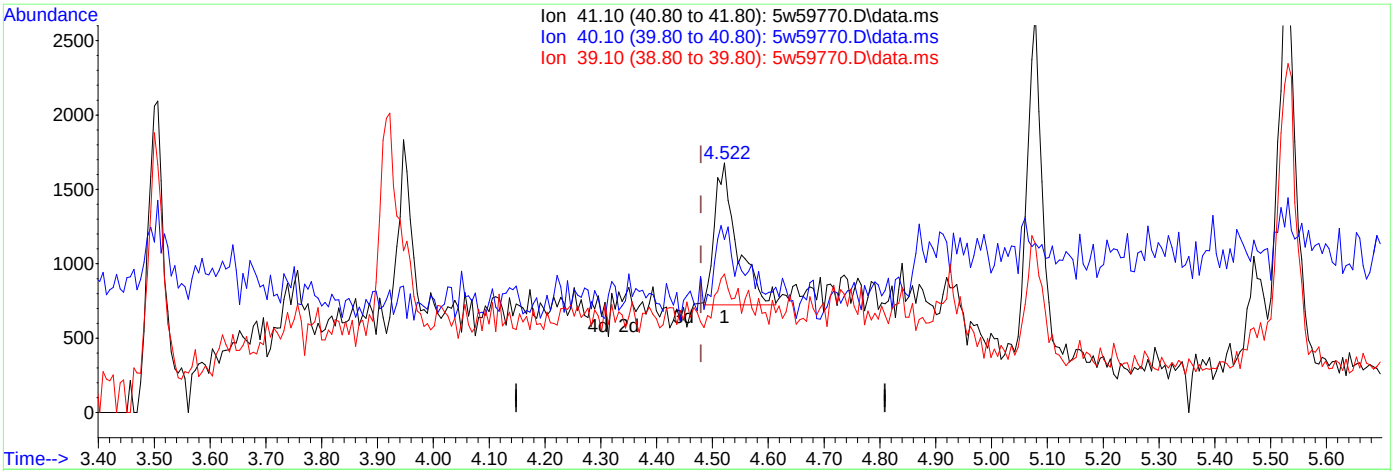
response 5252

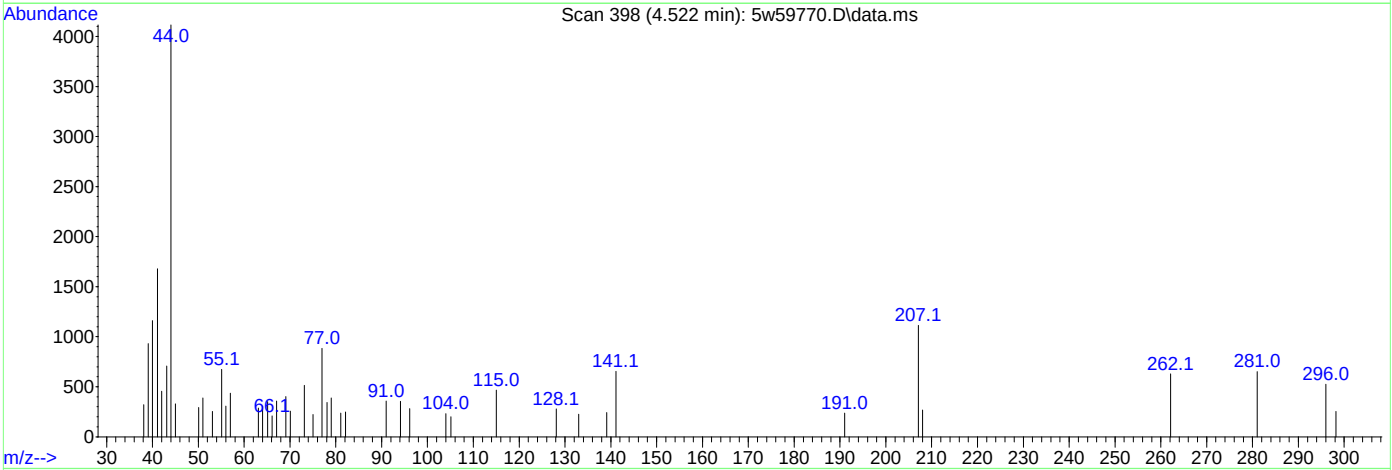
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	50.95
39.10	19.10	23.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(17) ACETONITRILE

4.522min (+0.043) 0.10PPBV m

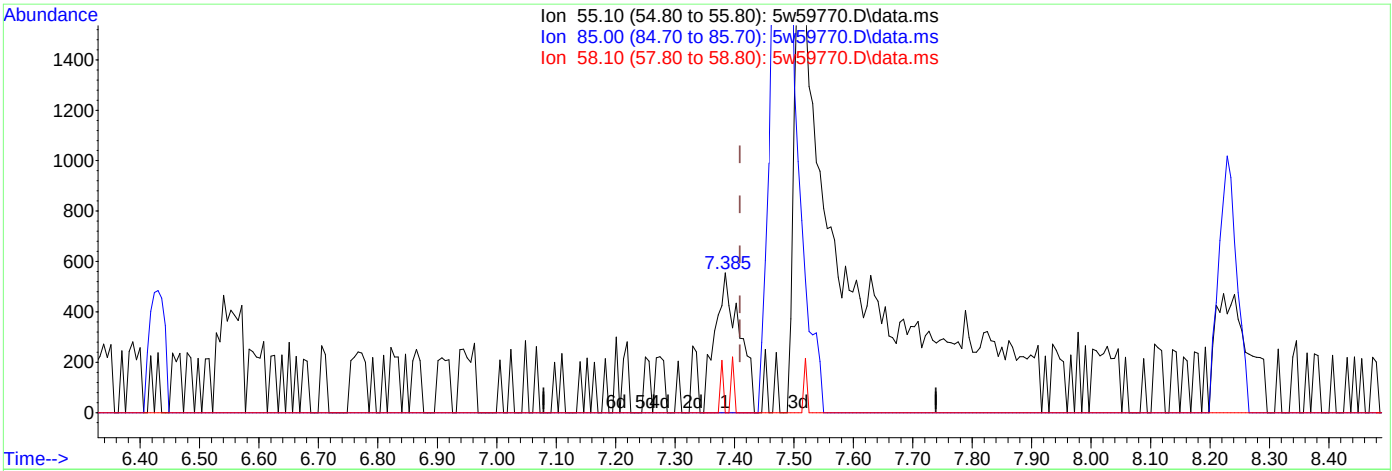
response 2670

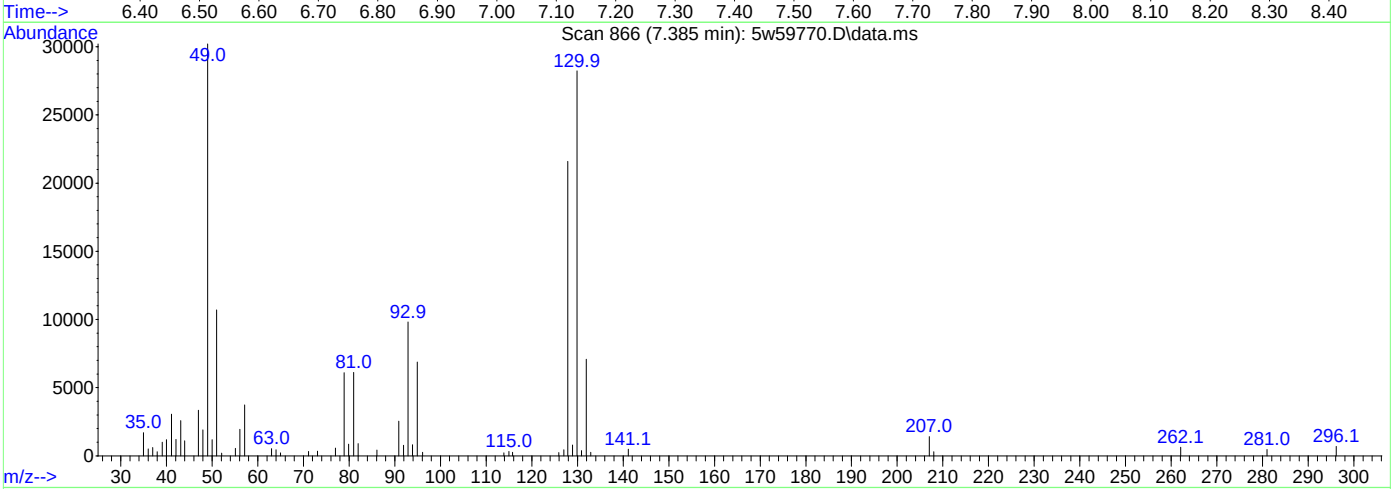
Ion	Exp%	Act%
41.10	100	100
40.10	54.20	100.22#
39.10	19.10	46.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:37:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.02PPBV

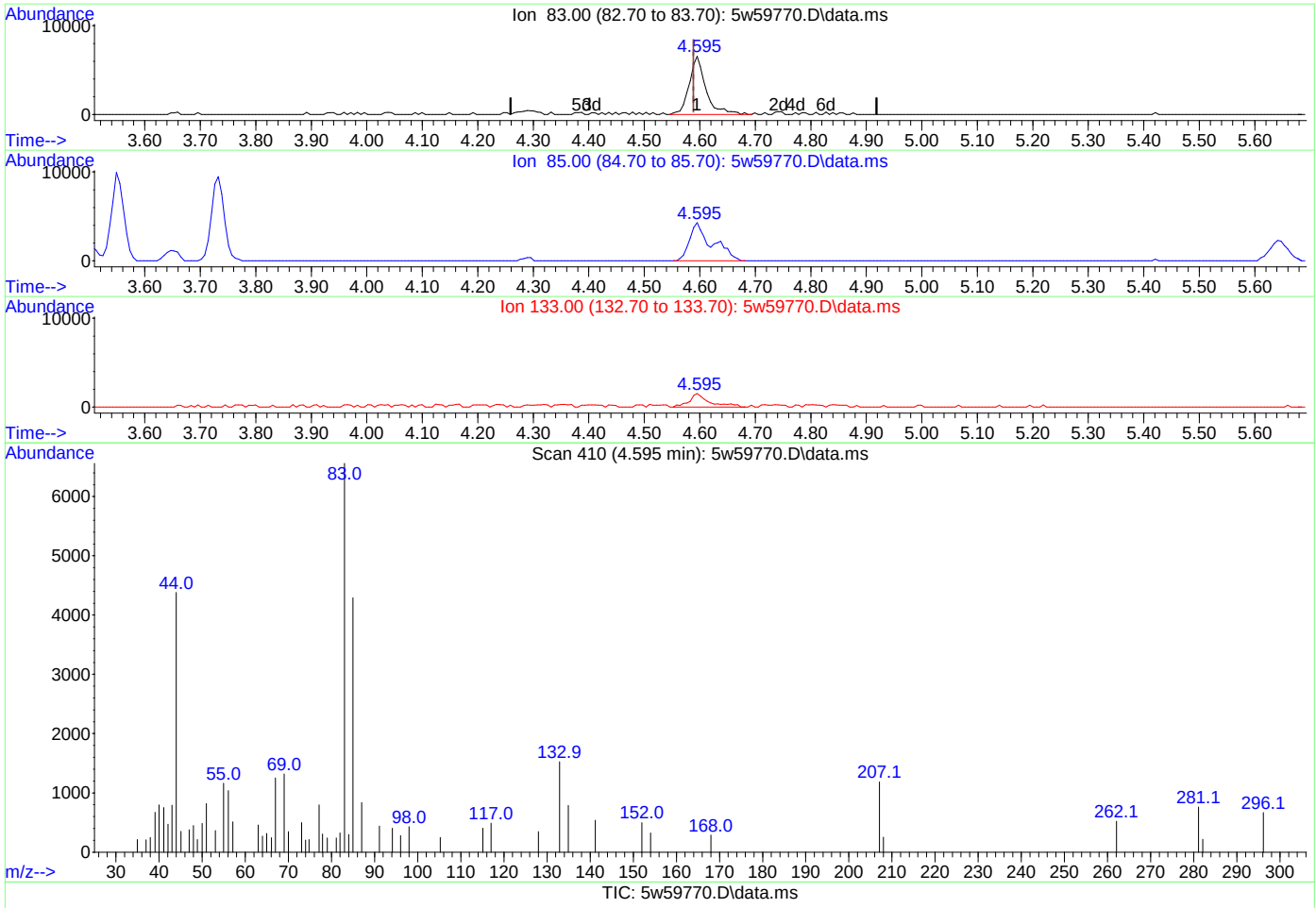
response 1598

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV

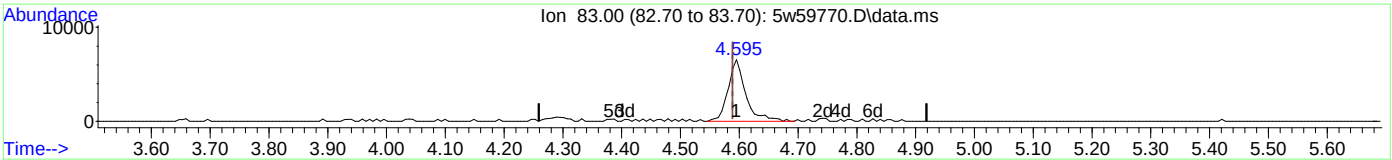
response 13808

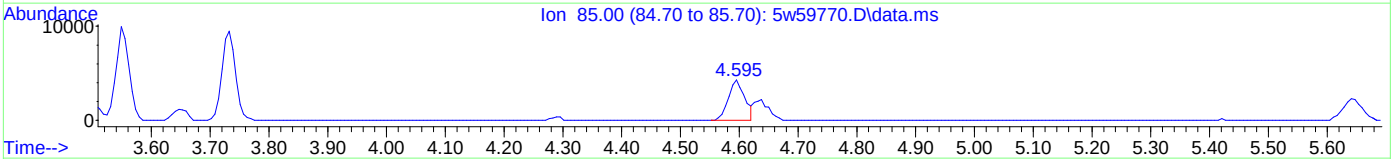
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	87.89
133.00	20.70	28.69
0.00	0.00	0.00

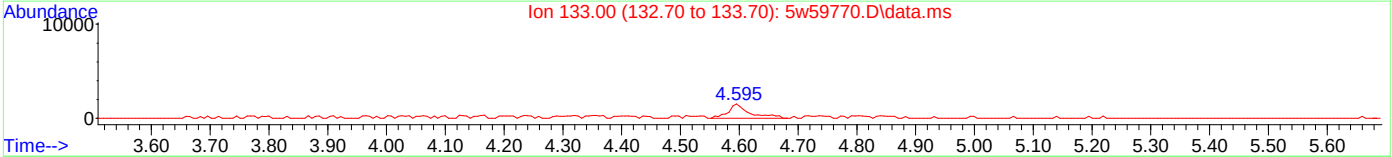
Quantitation Report (Qedit)

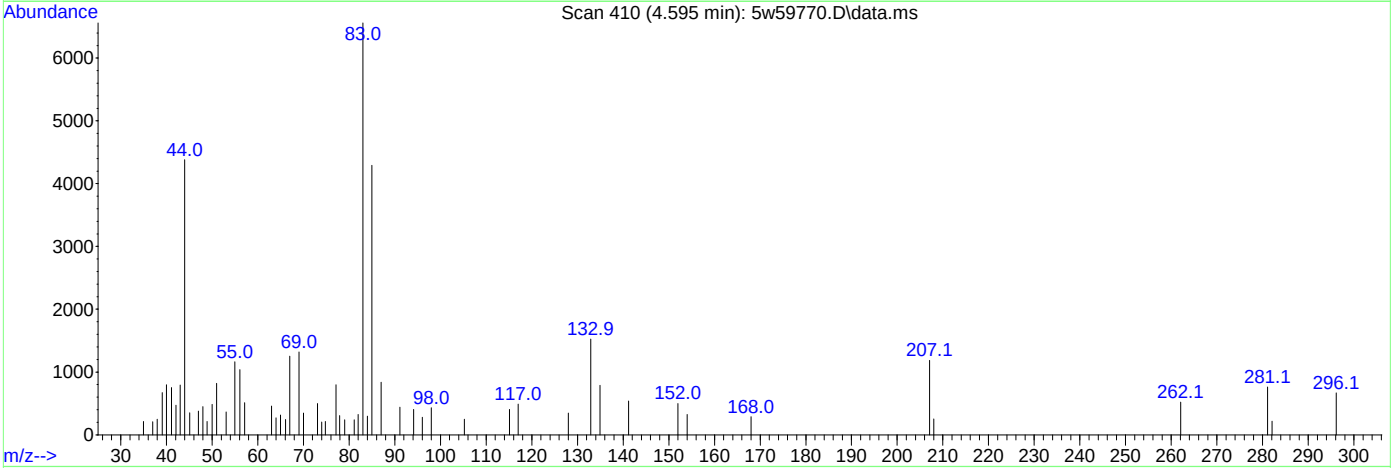
Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration









TIC: 5w59770.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.13PPBV m

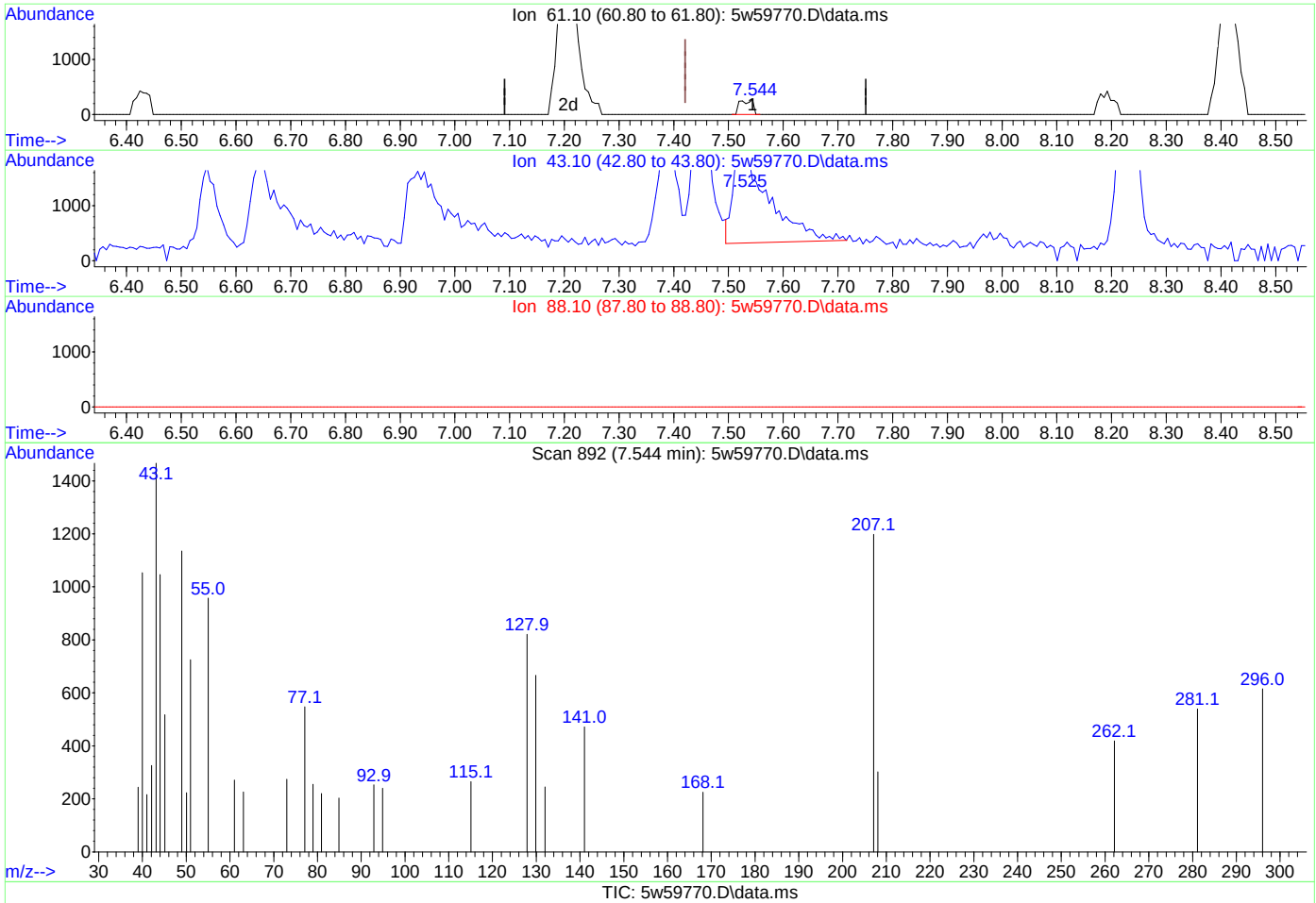
response 13808

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	60.19
133.00	20.70	28.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV

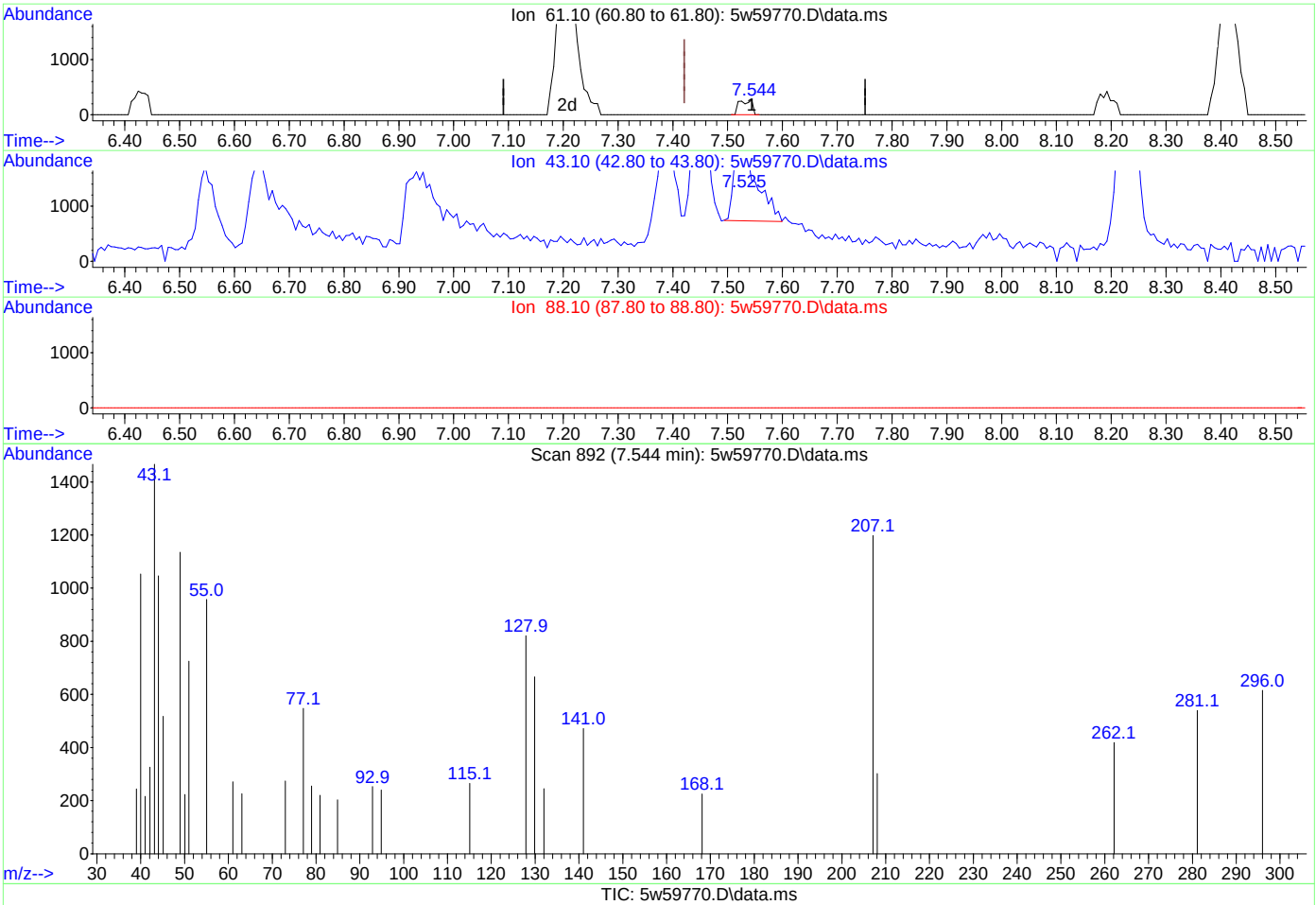
response 434

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1705.99#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:47:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration



TIC: 5w59770.D\data.ms

(44) ETHYL ACETATE

7.544min (+0.123) 0.03PPBV m

response 434

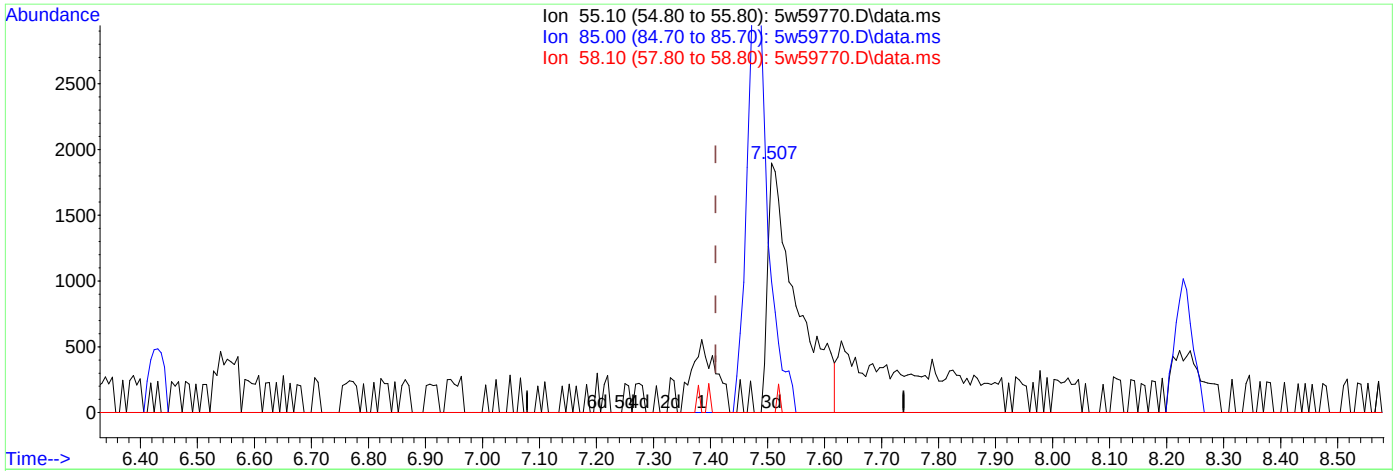
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	829.03#
88.10	34.50	0.00#
0.00	0.00	0.00

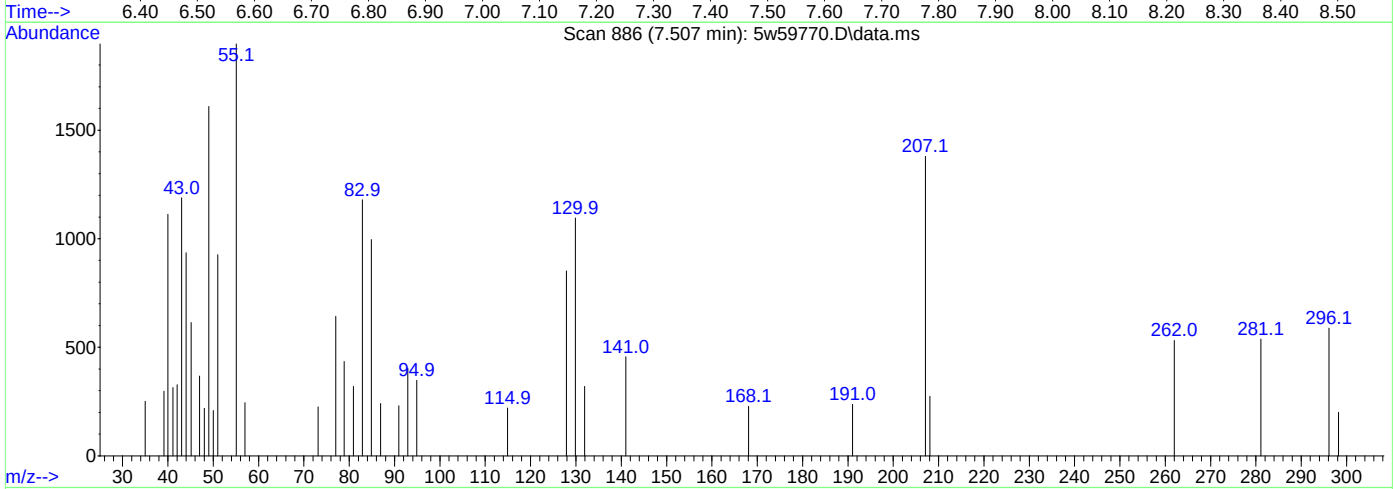
5W59770.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59770.D
Acq On : 6 Nov 2025 11:11 pm
Operator : benk
Sample : ic2292-0.1
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:51:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:18:04 2025
Response via : Initial Calibration





TIC: 5w59770.D\data.ms

(45) METHYL ACRYLATE

7.507min (+0.098) 0.08PPBV m

response 6719

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	467597	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2126307	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1045384	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	471090	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1427663	11.16	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.60%				
Target Compounds							Qvalue
2) FREON 115	3.372	119	4412	0.12	PPBV		95
3) FREON 152A	3.445	65	7777	0.24	PPBV		98
4) CHLORODIFLUOROMETHANE	3.482	67	3190	0.21	PPBV		100
5) CHLOROTRIFLUOROETHENE	3.506	116	14712	0.20	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	29673	0.22	PPBV		99
7) PROPYLENE	3.506	41	8750	0.24	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	25496	0.24	PPBV		98
9) FREON 114	3.733	85	30048	0.24	PPBV		100
10) CHLOROMETHANE	3.665	52	3463	0.25	PPBV	#	84
11) VINYL CHLORIDE	3.818	62	10347	0.23	PPBV		91
12) 1,3-BUTADIENE	3.916	54	6663	0.25	PPBV		93
13) n-BUTANE	3.947	43	10741	0.25	PPBV	#	93
14) BROMOMETHANE	4.106	94	10837	0.23	PPBV		77
15) CHLOROETHANE	4.228	64	5570	0.26	PPBV		90
16) DICHLOROFLUOROMETHANE	4.289	67	22344	0.23	PPBV		99
17) ACETONITRILE	4.510	41	6047	0.24	PPBV	#	74
18) ACROLEIN	4.595	56	3414m	0.24	PPBV		
19) FREON 123	4.595	83	25775m	0.24	PPBV		
20) FREON 123A	4.638	117	14980	0.23	PPBV		96
21) TRICHLOROFLUOROMETHANE	4.797	101	26063	0.22	PPBV		93
22) ISOPROPYL ALCOHOL	4.926	45	22029	0.25	PPBV		87
23) ACETONE	4.718	58	6066	0.34	PPBV		100
24) PENTANE	5.079	42	10859	0.25	PPBV		93
25) IODOMETHANE	5.256	142	32697	0.22	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.323	96	10700	0.22	PPBV		95
27) CARBON DISULFIDE	5.678	76	29507	0.22	PPBV		92
28) ETHANOL	4.344	45	12121	0.73	PPBV		98
29) BROMOETHENE	4.485	106	10750	0.22	PPBV		92
30) ACRYLONITRILE	5.085	52	7876	0.26	PPBV		94
31) METHYLENE CHLORIDE	5.427	84	11602	0.27	PPBV		97
32) 3-CHLOROPROPENE	5.525	76	4977	0.22	PPBV		98
33) FREON 113	5.647	151	17747	0.21	PPBV		95
34) TRANS-1,2-DICHLOROETHY...	6.247	96	11590	0.22	PPBV		85
35) TERTIARY BUTYL ALCOHOL	5.464	59	19541	0.20	PPBV		97
36) METHYL TERTIARY BUTYL ...	6.541	73	29335	0.23	PPBV		89
37) TETRAHYDROFURAN	7.954	72	3172	0.16	PPBV	#	59
38) HEXANE	7.385	57	18650	0.26	PPBV	#	77
39) VINYL ACETATE	6.620	86	653	0.09	PPBV	#	1
40) 1,1-DICHLOROETHANE	6.431	63	21909	0.23	PPBV		96
41) METHYL ETHYL KETONE	6.902	72	2781	0.14	PPBV	#	80
42) cis-1,2-DICHLOROETHYLENE	7.207	96	12027	0.22	PPBV		91
43) DIISOPROPYL ETHER	7.440	59	3909	0.18	PPBV	#	53
44) ETHYL ACETATE	7.501	61	2309m	0.15	PPBV		
45) METHYL ACRYLATE	7.489	55	14366m	0.17	PPBV		
46) CHLOROFORM	7.483	83	23090	0.22	PPBV		91
47) 2,4-DIMETHYLPENTANE	8.229	57	18643	0.22	PPBV		100
48) 1,1,1-TRICHLOROETHANE	8.413	97	24304	0.22	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	25552	0.21	PPBV		100
50)	1,2-DICHLOROETHANE	8.186	62	16304	0.22	PPBV		94
52)	BENZENE	8.859	78	30072	0.21	PPBV		99
53)	CYCLOHEXANE	9.110	84	12037	0.20	PPBV		94
54)	2,3-DIMETHYLPENTANE	9.355	71	5961	0.20	PPBV		91
55)	TRICHLOROETHYLENE	9.899	95	14290	0.19	PPBV		99
56)	1,2-DICHLOROPROPANE	9.667	63	12562	0.20	PPBV		99
57)	DIBROMOMETHANE	9.642	174	16323	0.20	PPBV		98
58)	ETHYL ACRYLATE	9.801	55	11494m	0.10	PPBV		
59)	BROMODICHLOROMETHANE	9.856	83	25637	0.20	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	49437	0.21	PPBV		95
61)	1,4-DIOXANE	9.997	88	7396	0.22	PPBV	#	1
62)	HEPTANE	10.193	43	19280	0.24	PPBV		92
63)	METHYL METHACRYLATE	10.175	69	8860	0.18	PPBV	#	1
64)	METHYL ISOBUTYL KETONE	10.890	58	6548	0.14	PPBV	#	70
65)	cis-1,3-DICHLOROPROPENE	10.774	75	20672	0.20	PPBV		93
66)	TOLUENE	11.735	92	21289	0.19	PPBV		93
67)	1,3-DICHLOROPROPANE	11.777	76	18562m	0.21	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.312	75	19068	0.20	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.465	83	11660	0.19	PPBV		99
71)	2-HEXANONE	12.169	58	9038m	0.16	PPBV		
72)	ETHYL METHACRYLATE	12.083	69	14602	0.19	PPBV	#	86
73)	TETRACHLOROETHYLENE	12.879	164	16678	0.23	PPBV		96
74)	DIBROMOCHLOROMETHANE	12.163	129	26574	0.21	PPBV		99
75)	1,2-DIBROMOETHANE	12.414	107	22241	0.22	PPBV		100
76)	OCTANE	12.750	43	23489	0.25	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	17410	0.21	PPBV		95
78)	CHLOROBENZENE	13.588	112	29927	0.23	PPBV		100
79)	ETHYLBENZENE	14.004	91	48060	0.24	PPBV		96
80)	m,p-XYLENE	14.188	106	36141	0.45	PPBV		97
81)	o-XYLENE	14.689	106	17278	0.23	PPBV		90
82)	STYRENE	14.598	104	26105	0.21	PPBV		86
83)	NONANE	14.934	43	25033	0.26	PPBV		94
84)	BROMOFORM	14.261	173	25461	0.20	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.696	83	30281	0.23	PPBV		97
87)	1,2,3-TRICHLOROPROPANE	14.836	75	24248	0.24	PPBV		93
88)	ISOPROPYLBENZENE	15.307	105	52329	0.23	PPBV		98
89)	BROMOBENZENE	15.393	77	27933	0.24	PPBV		92
90)	2-CHLOROTOLUENE	15.785	126	13598	0.21	PPBV		86
91)	n-PROPYLBENZENE	15.827	120	13388	0.21	PPBV		99
92)	4-ETHYLTOLUENE	15.974	105	48336	0.22	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.048	105	48446	0.26	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.219	118	19855	0.19	PPBV		97
95)	tert-BUTYLBENZENE	16.433	134	8909	0.22	PPBV	#	87
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	44191	0.24	PPBV		99
97)	m-DICHLOROBENZENE	16.592	146	29601	0.20	PPBV		98
98)	BENZYL CHLORIDE	16.586	91	33418	0.19	PPBV		96
99)	p-DICHLOROBENZENE	16.659	146	36208	0.24	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	11583	0.23	PPBV		91
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	45724	0.24	PPBV		94
102)	p-ISOPROPYLTOLUENE	16.867	134	13423	0.23	PPBV		93
103)	o-DICHLOROBENZENE	16.990	146	31360	0.22	PPBV		98
104)	n-BUTYLBENZENE	17.271	134	12074	0.20	PPBV	#	83
105)	HEXACHLOROETHANE	17.608	117	22122	0.23	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	30270	0.23	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.898	180	27720	0.21	PPBV		97
108)	NAPHTHALENE	18.678	128	62904	0.22	PPBV		97
110)	TVHC as equiv Pentane	5.079	TIC	73523	0.25	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

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

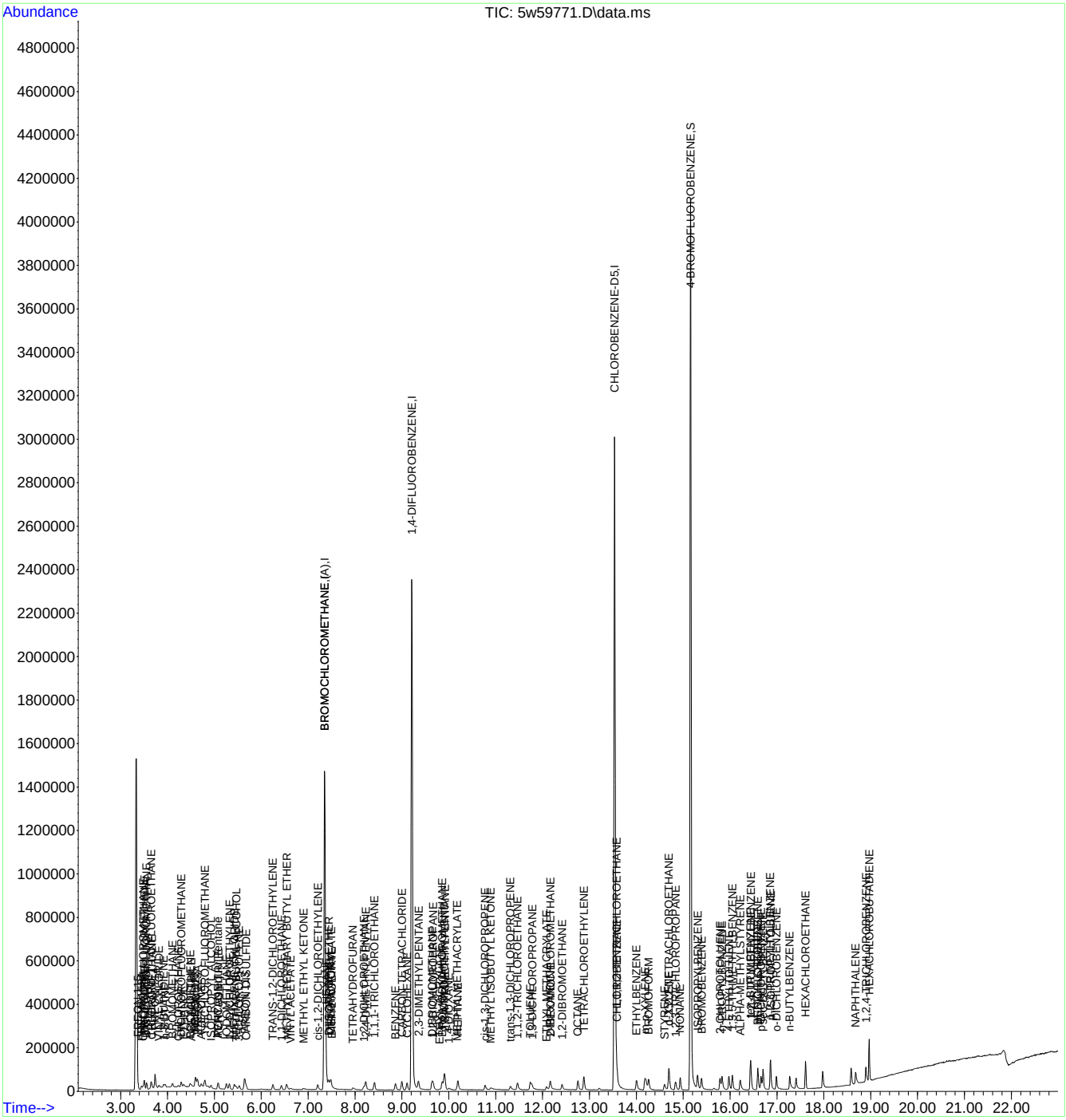
(#) = qualifier out of range (m) = manual integration (+) = signals summed

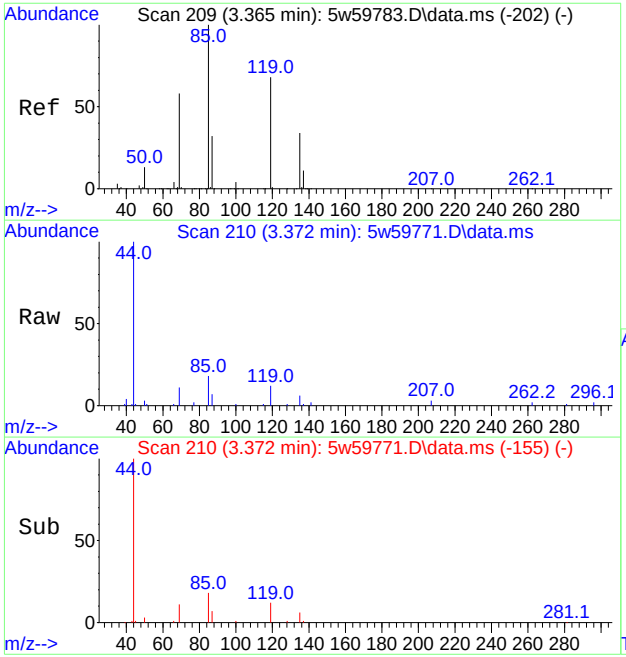
7.7.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:39:35 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration

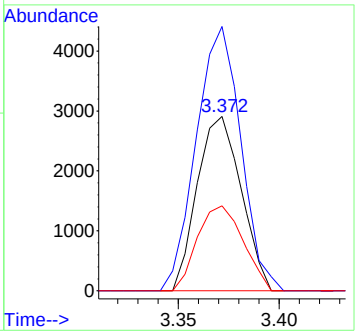


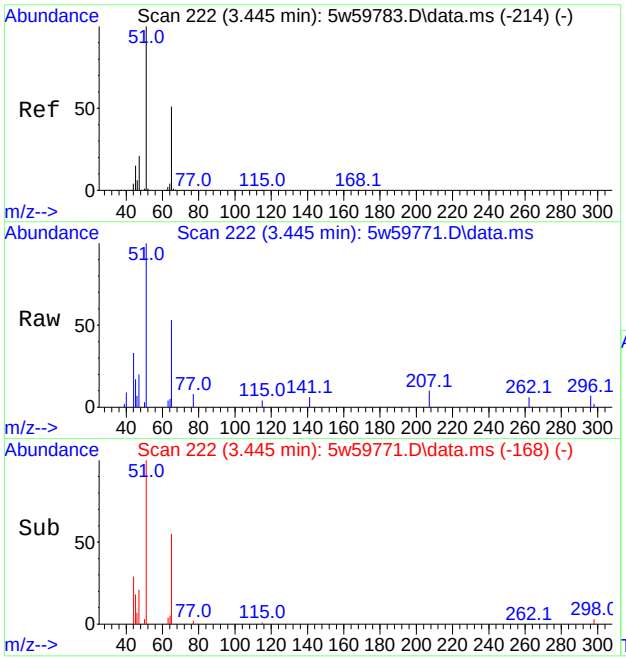


#2
FREON 115
Concen: 0.12 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:119 Resp: 4412

Ion	Ratio	Lower	Upper
119	100		
85	153.9	116.2	176.2
135	50.8	20.6	80.6

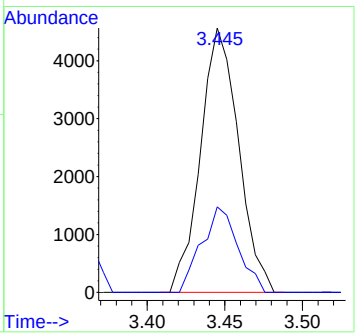


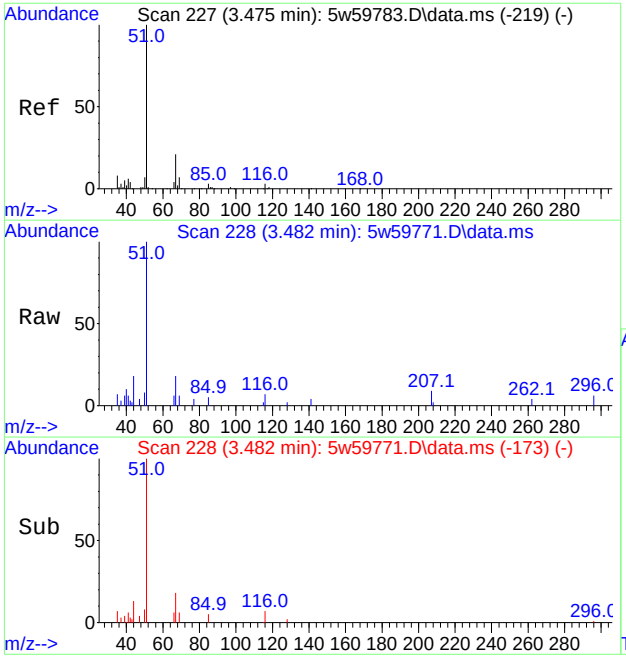


#3
FREON 152A
Concen: 0.24 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 7777

Ion	Ratio	Lower	Upper
65	100		
45	30.9	0.0	60.0

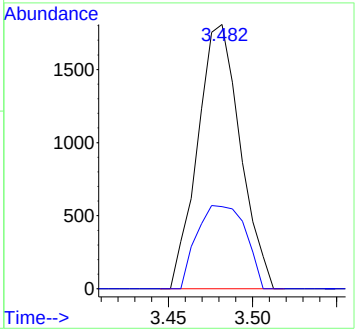


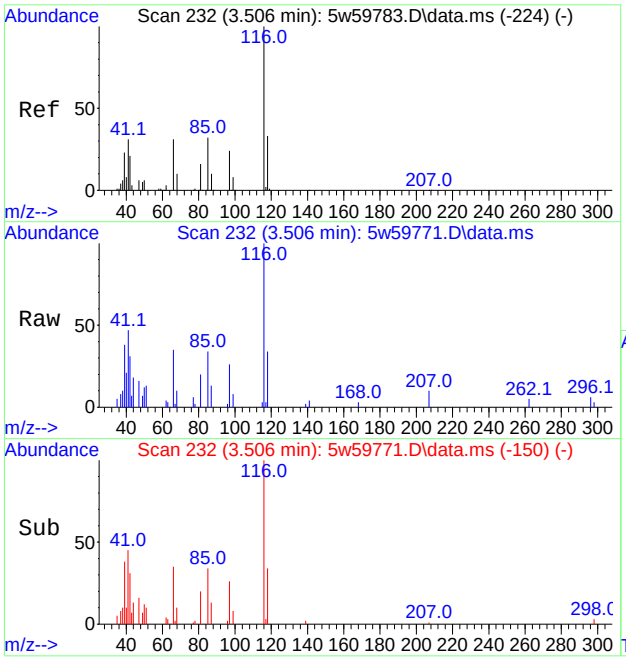


#4
CHLORODIFLUOROMETHANE
Concen: 0.21 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 3190

Ion	Ratio	Lower	Upper
67	100		
69	31.1	1.0	61.0

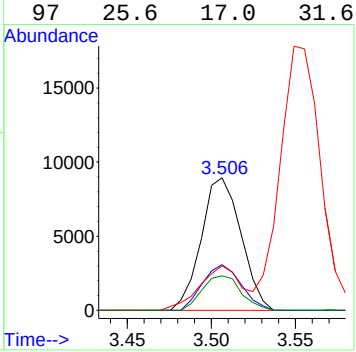


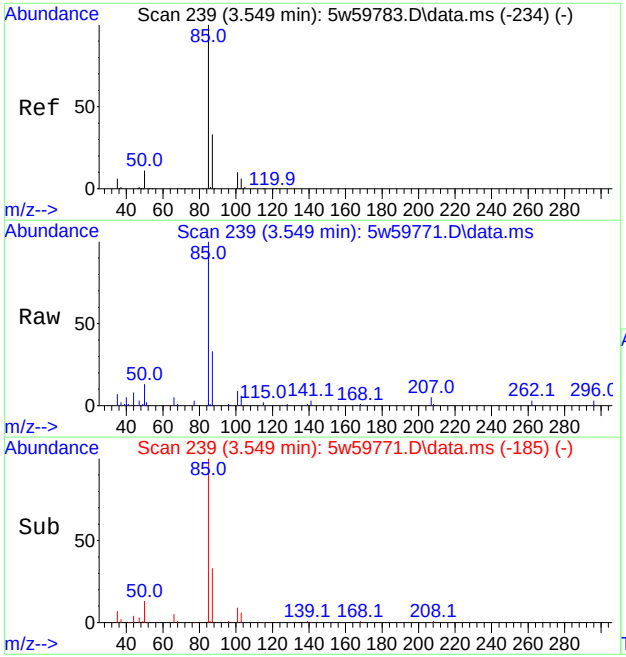


#5
CHLOROTRIFLUOROETHENE
Concen: 0.20 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:116 Resp: 14712

Ion	Ratio	Lower	Upper
116	100		
118	33.6	22.9	42.5
85	35.8	23.7	44.1
97	25.6	17.0	31.6

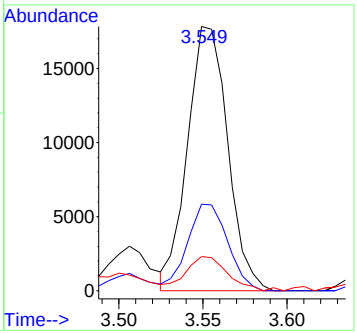


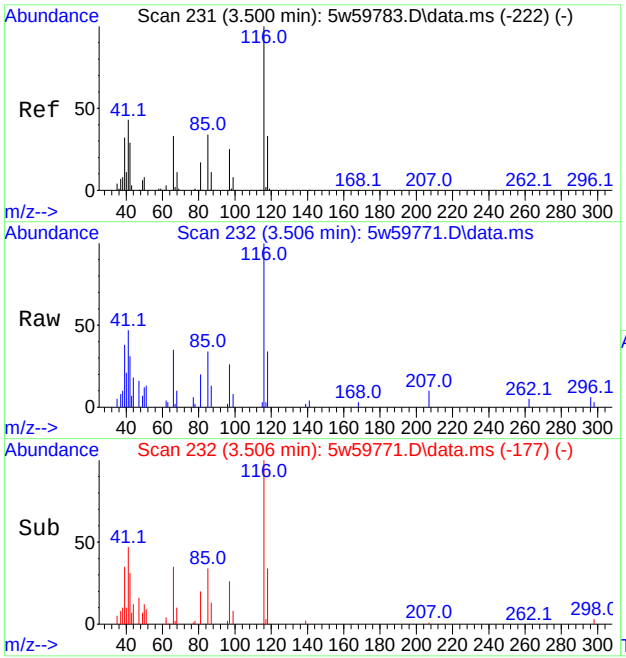


#6
DICHLORODIFLUOROMETHANE
Concen: 0.22 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 29673

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	13.3	0.0	41.7

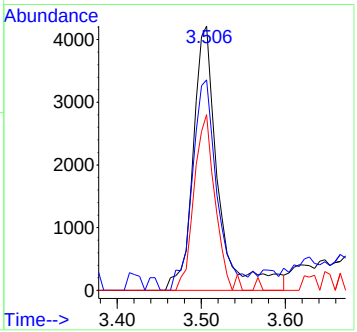


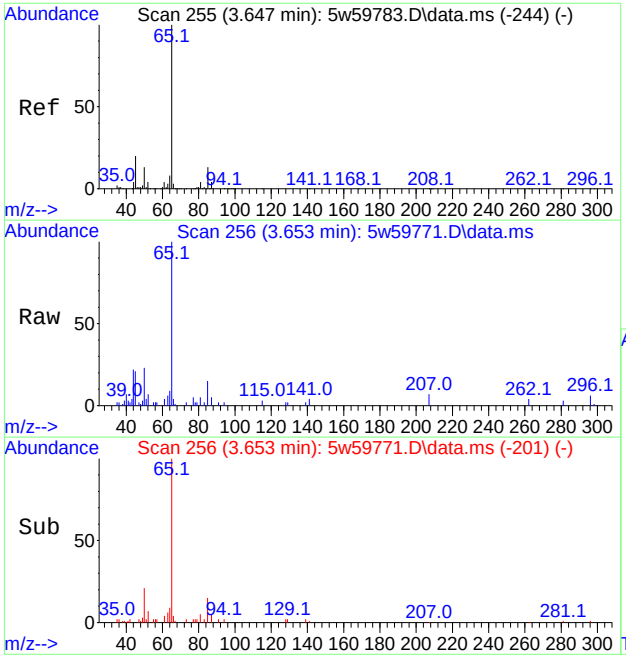


#7
PROPYLENE
Concen: 0.24 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 8750

Ion	Ratio	Lower	Upper
41	100		
39	85.7	45.1	105.1
42	55.7	36.3	96.3

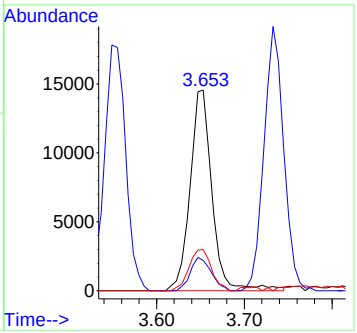


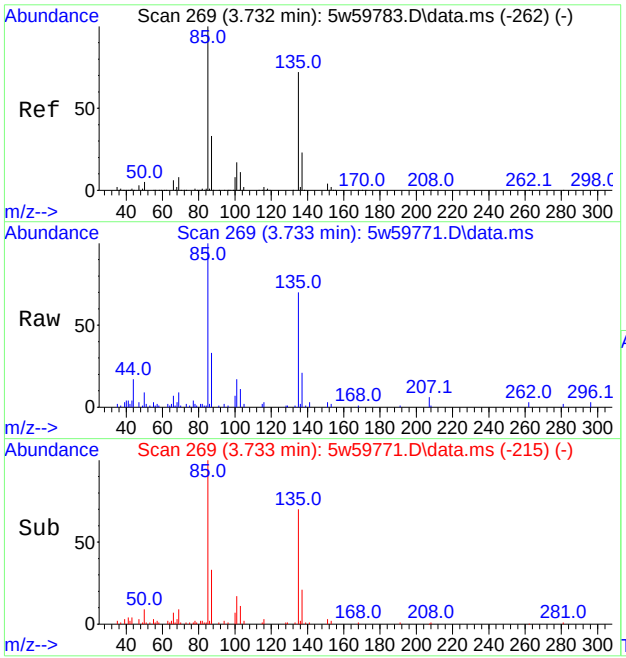


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.24 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 65 Resp: 25496

Ion	Ratio	Lower	Upper
65	100		
85	15.6	11.5	21.3
45	21.1	14.0	26.0

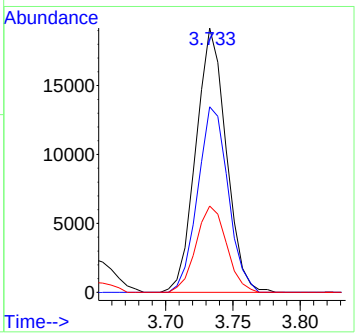


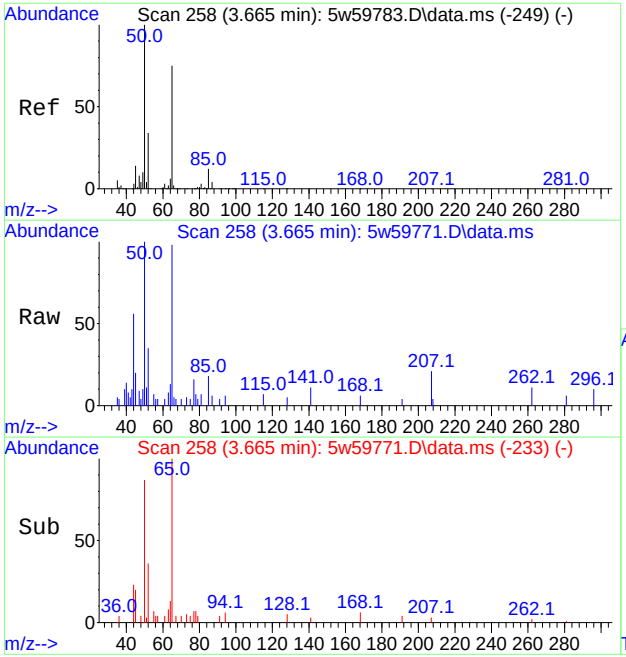


#9
FREON 114
Concen: 0.24 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 85 Resp: 30048

Ion	Ratio	Lower	Upper
85	100		
135	70.7	40.5	100.5
87	33.1	3.0	63.0

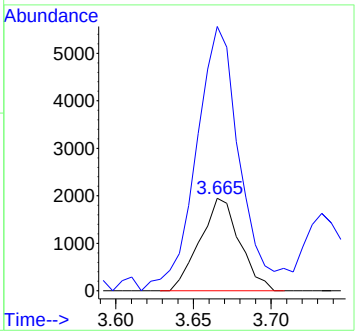


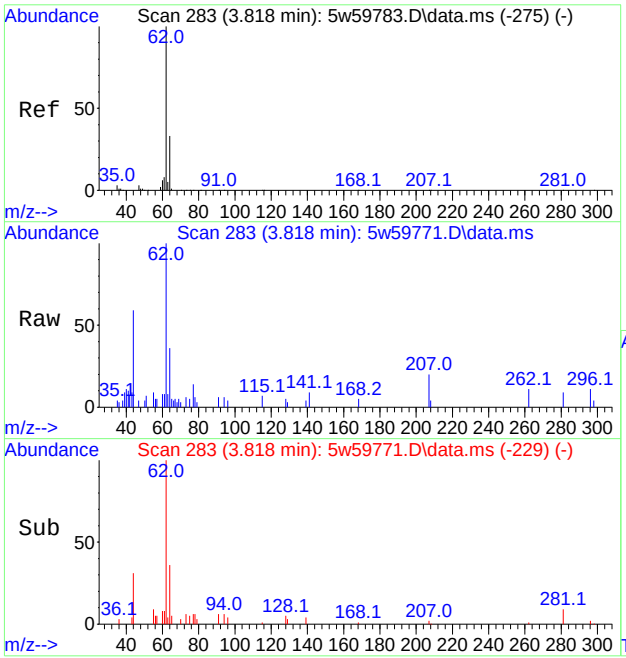


#10
CHLOROMETHANE
Concen: 0.25 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 3463

Ion	Ratio	Lower	Upper
52	100		
50	267.4	267.9	327.9#

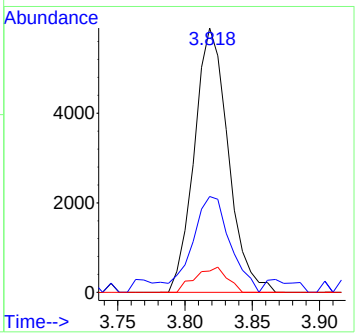


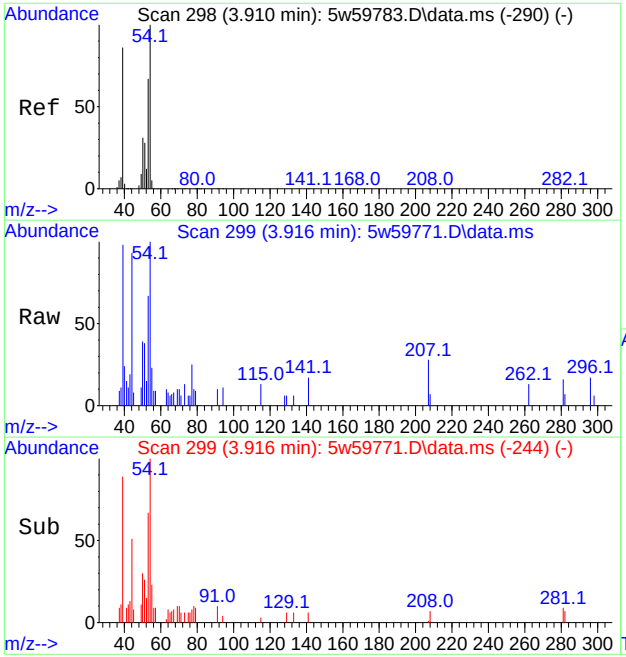


#11
VINYL CHLORIDE
Concen: 0.23 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 10347

Ion	Ratio	Lower	Upper
62	100		
64	39.8	3.6	63.6
61	9.1	0.0	38.2

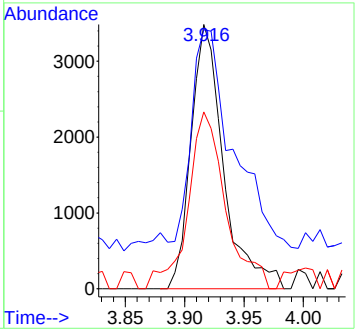


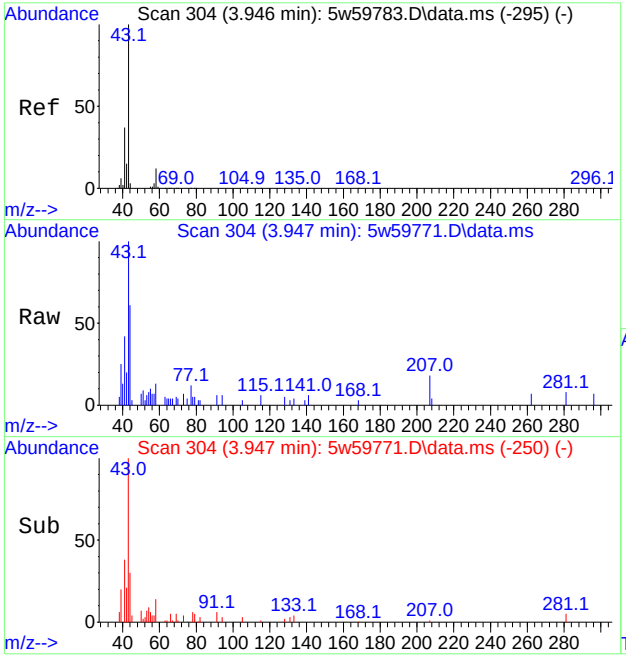


#12
1,3-BUTADIENE
Concen: 0.25 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 54 Resp: 6663

Ion	Ratio	Lower	Upper
54	100		
39	104.6	82.0	142.0
53	76.7	40.2	100.2

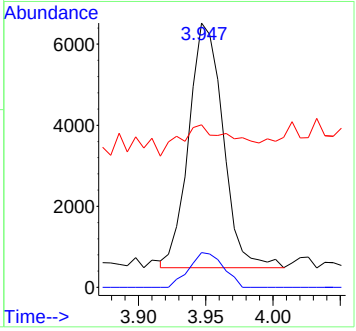


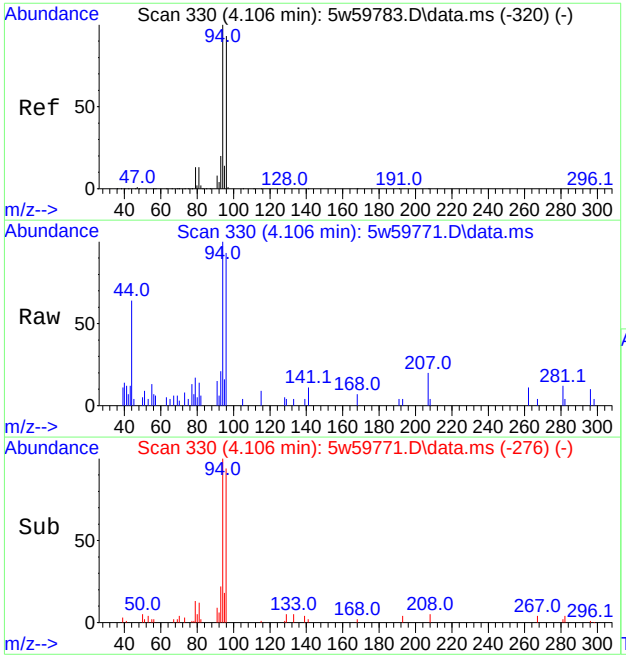


#13
n-BUTANE
Concen: 0.25 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 10741

Ion	Ratio	Lower	Upper
43	100		
58	14.2	0.0	42.6
44	0.0	0.0	34.9

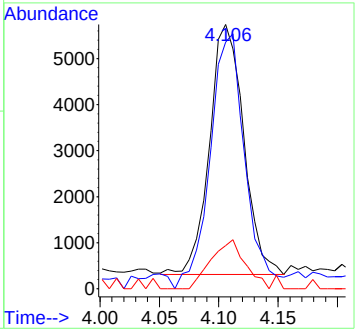


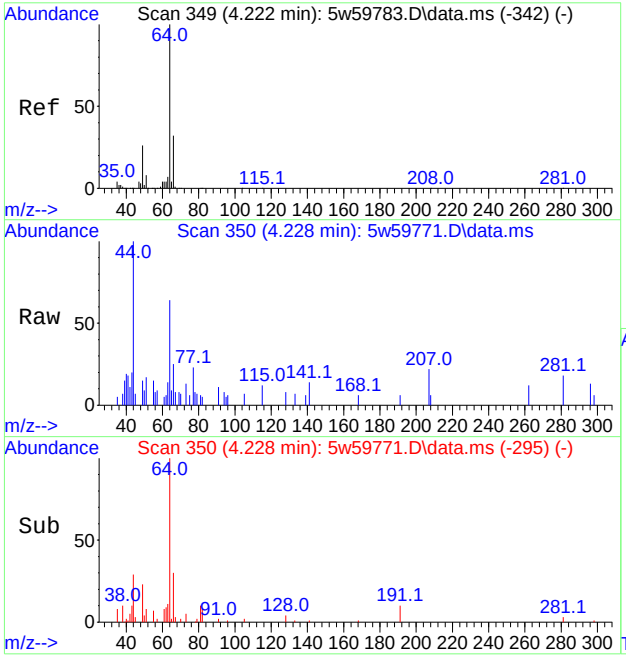


#14
BROMOMETHANE
Concen: 0.23 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 94 Resp: 10837

Ion	Ratio	Lower	Upper
94	100		
96	119.6	65.3	125.3
95	19.5	0.0	44.1

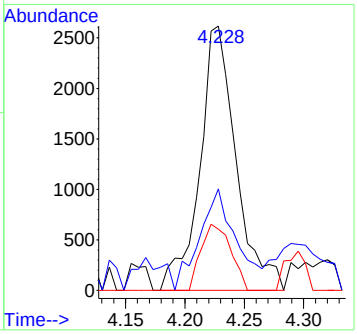


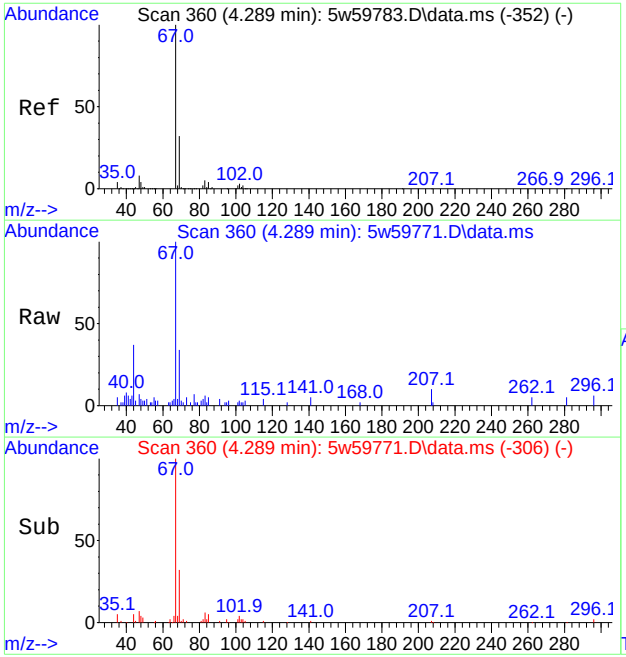


#15
CHLOROETHANE
Concen: 0.26 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 64 Resp: 5570

Ion	Ratio	Lower	Upper
64	100		
66	38.9	3.1	63.1
49	20.5	0.0	55.3

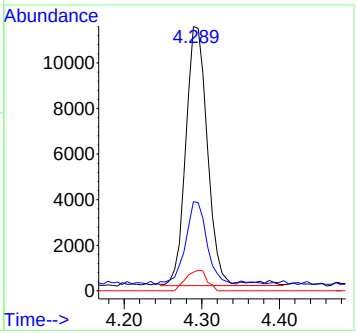


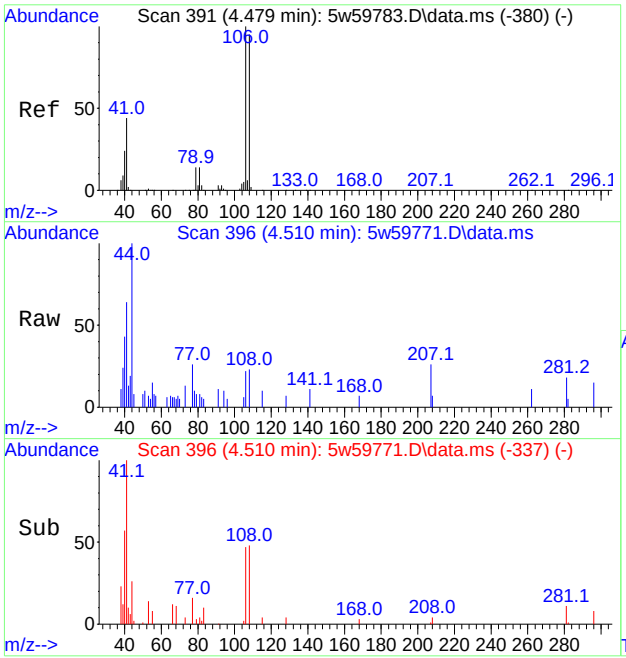


#16
DICHLOROFLUOROMETHANE
Concen: 0.23 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 67 Resp: 22344

Ion	Ratio	Lower	Upper
67	100		
69	31.7	22.7	42.3
47	7.6	5.6	10.4

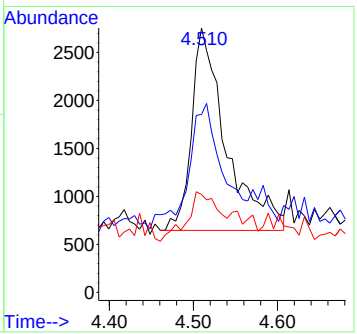


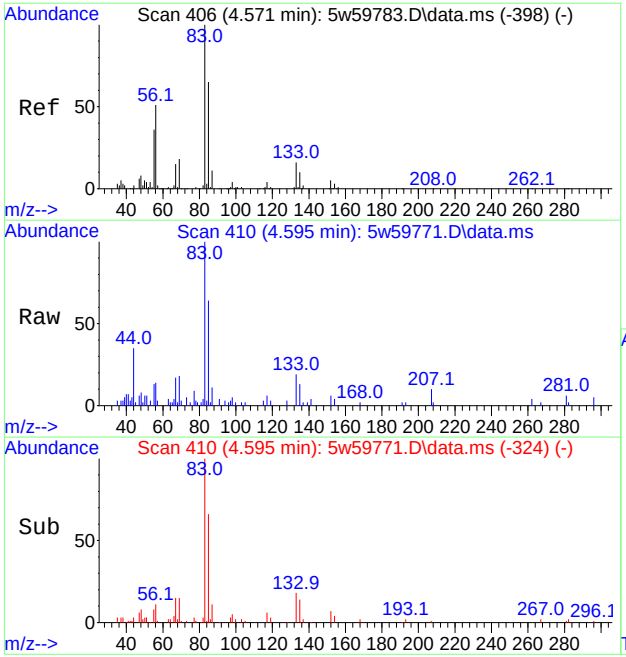


#17
ACETONITRILE
Concen: 0.24 PPBV
RT: 4.510 min Scan# 396
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 41 Resp: 6047

Ion	Ratio	Lower	Upper
41	100		
40	72.0	37.9	70.5#
39	31.5	13.4	24.8#

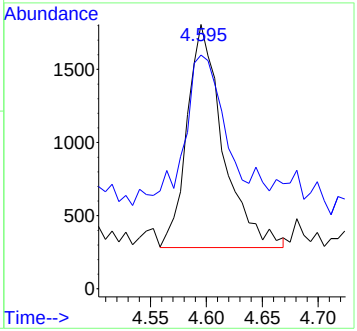


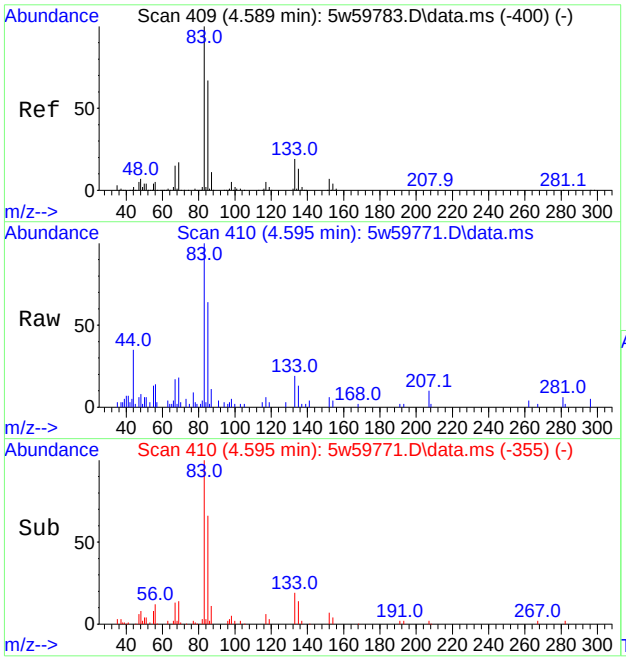


#18
ACROLEIN
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 56 Resp: 3414

Ion	Ratio	Lower	Upper
56	100		
55	99.6	46.6	86.6#

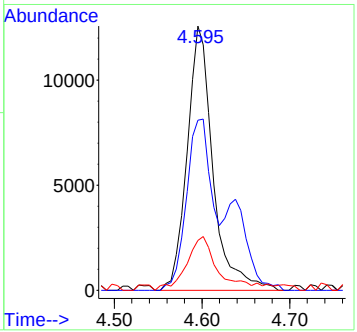


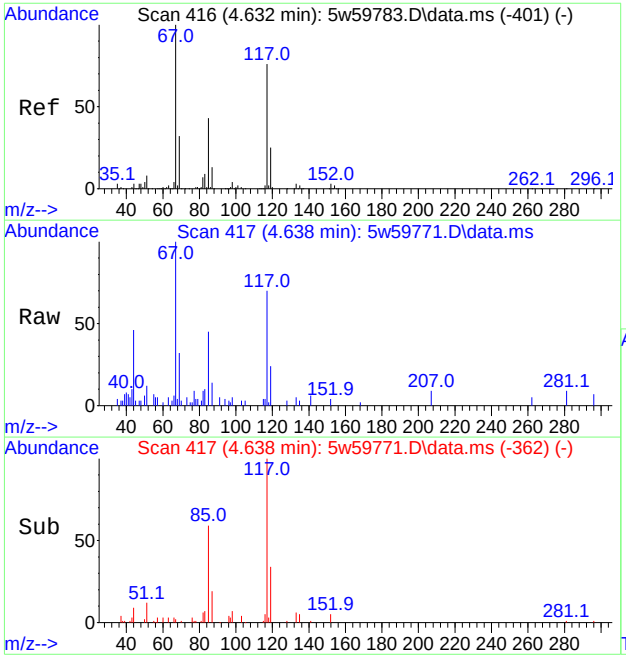


#19
FREON 123
Concen: 0.24 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25775

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.0	94.0
133	26.8	0.0	50.7

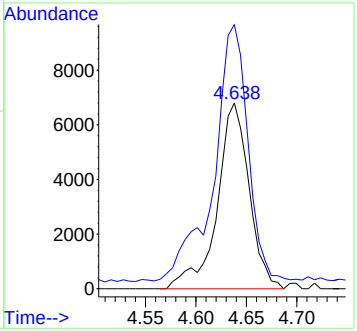


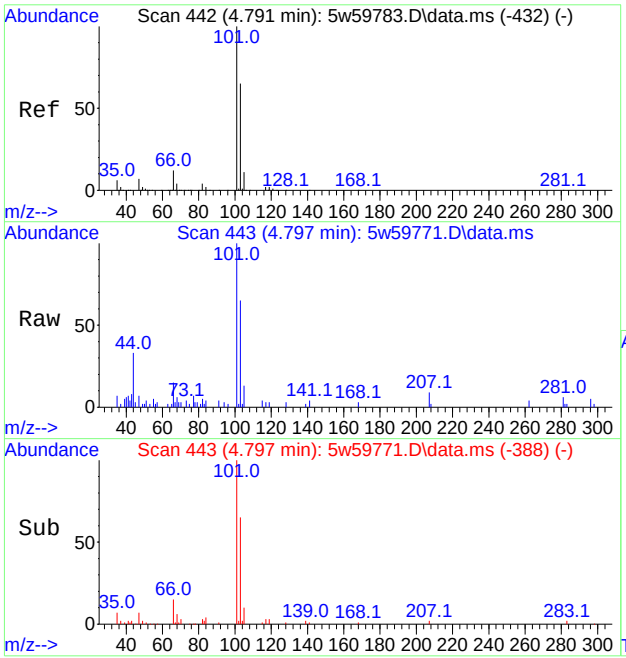


#20
FREON 123A
Concen: 0.23 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 14980

Ion	Ratio	Lower	Upper
117	100		
67	149.3	114.6	174.6

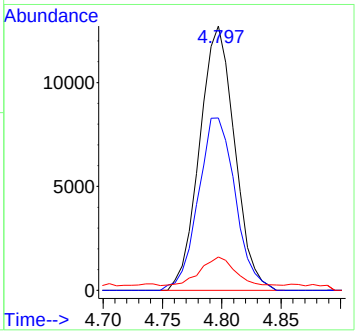


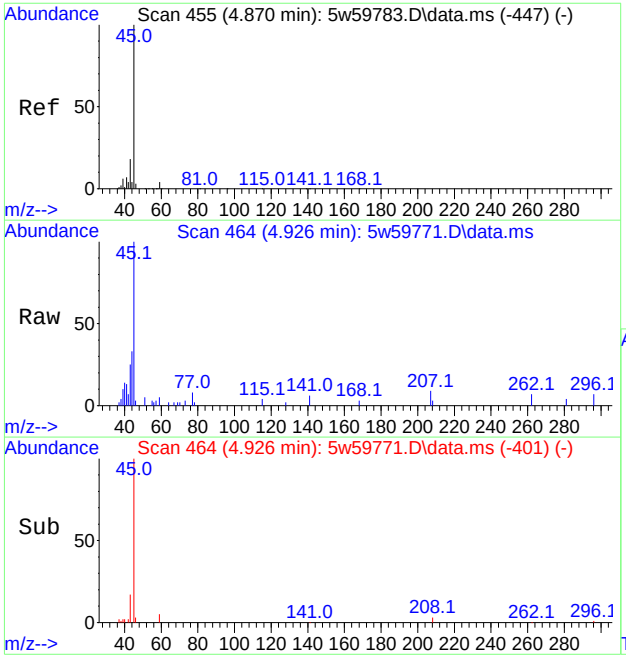


#21
TRICHLOROFLUOROMETHANE
Concen: 0.22 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:101 Resp: 26063

Ion	Ratio	Lower	Upper
101	100		
103	69.0	35.0	95.0
105	17.9	0.0	40.7

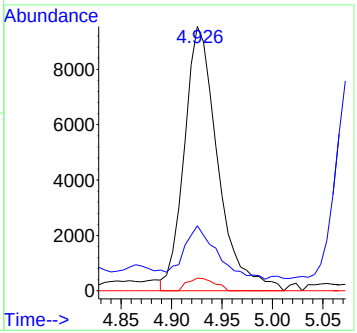


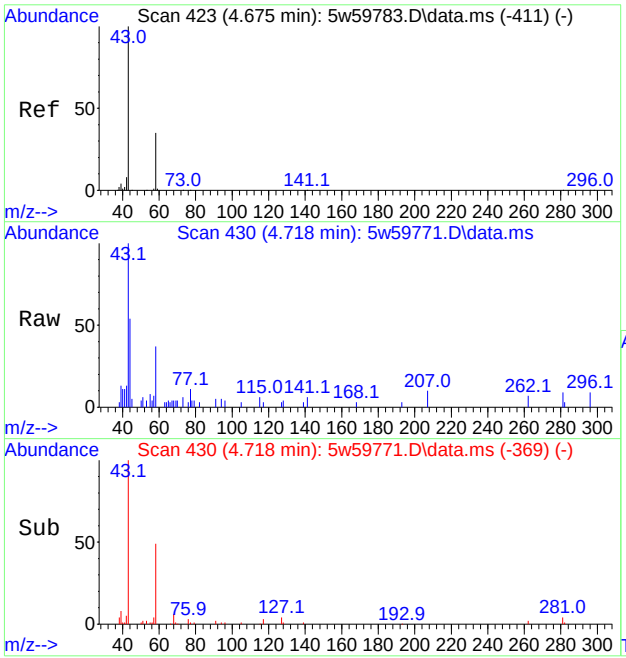


#22
ISOPROPYL ALCOHOL
Concen: 0.25 PPBV
RT: 4.926 min Scan# 464
Delta R.T. 0.056 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 22029

Ion	Ratio	Lower	Upper
45	100		
43	24.6	0.0	47.8
59	4.8	0.0	34.1

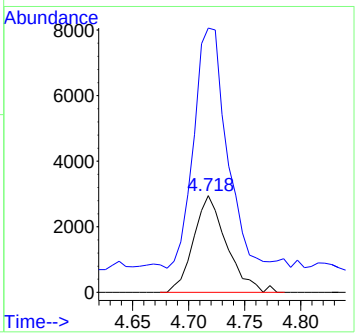


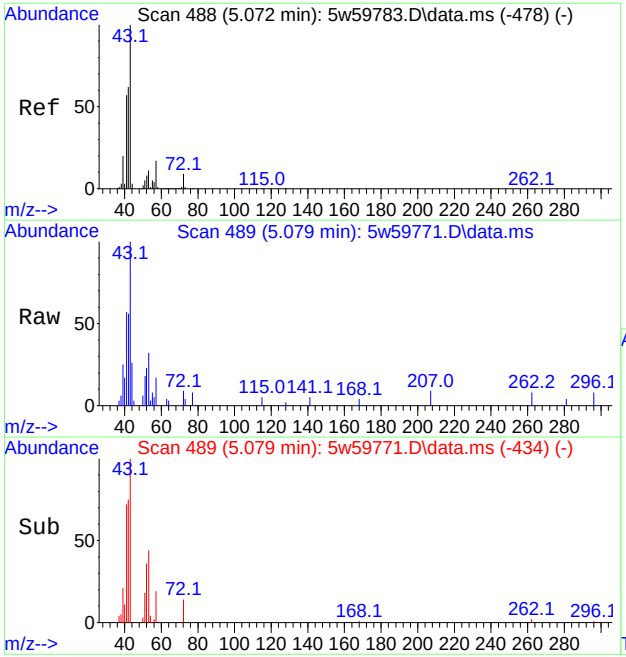


#23
ACETONE
Concen: 0.34 PPBV
RT: 4.718 min Scan# 430
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6066

Ion	Ratio	Lower	Upper
58	100		
43	283.0	252.3	312.3

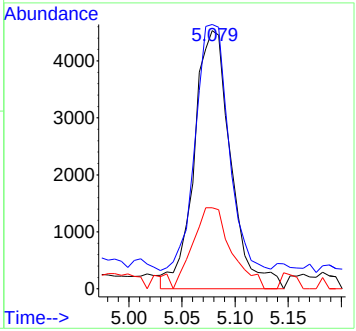


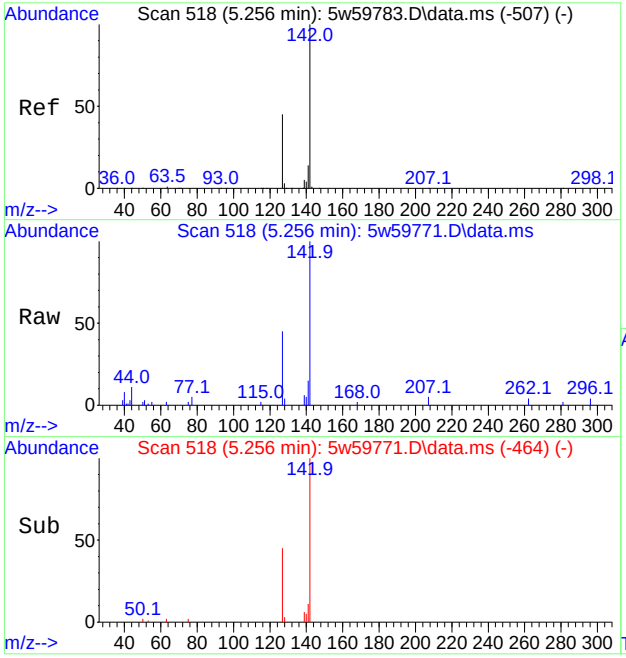


#24
PENTANE
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 42 Resp: 10859

Ion	Ratio	Lower	Upper
42	100		
41	86.3	62.3	122.3
57	32.8	0.0	57.7

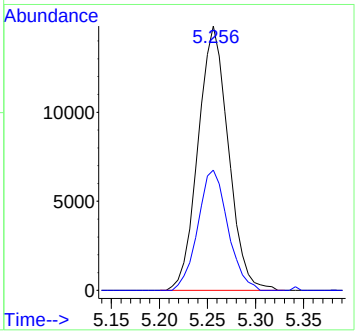


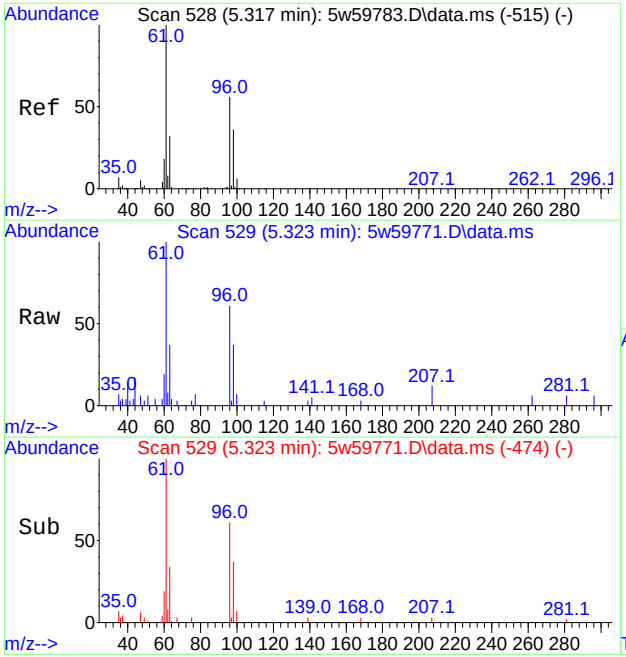


#25
IODOMETHANE
Concen: 0.22 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:142 Resp: 32697

Ion	Ratio	Lower	Upper
142	100		
127	45.0	16.0	76.0

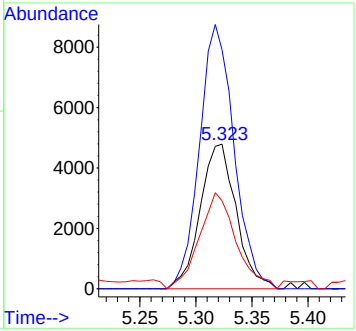


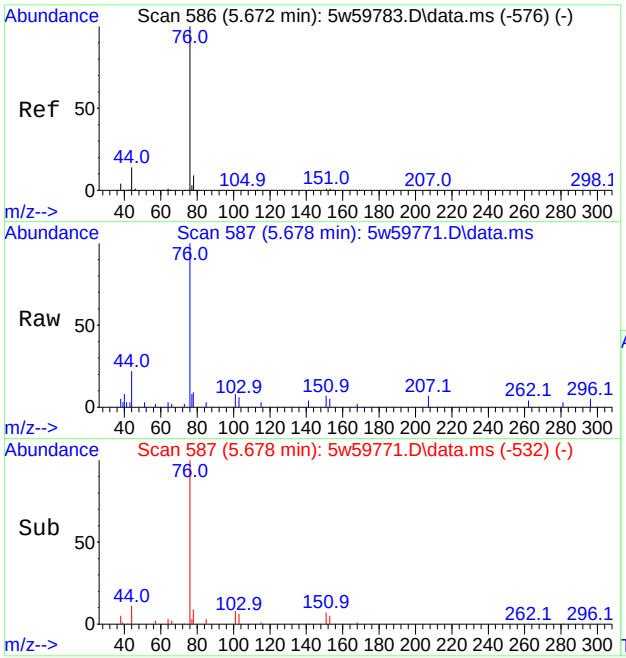


#26
1,1-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 5.323 min Scan# 529
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 10700

Ion	Ratio	Lower	Upper
96	100		
61	175.5	148.5	208.5
63	67.6	27.4	87.4

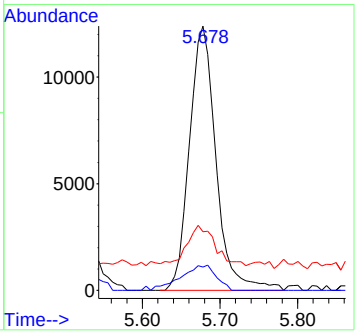


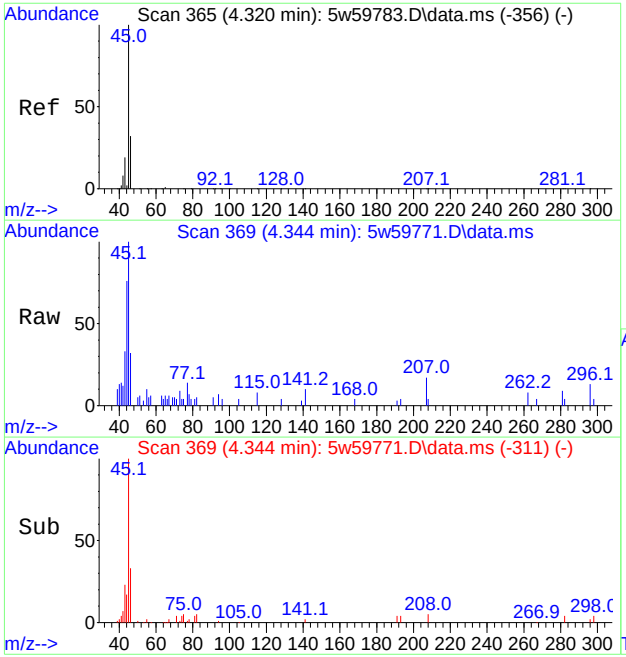


#27
CARBON DISULFIDE
Concen: 0.22 PPBV
RT: 5.678 min Scan# 587
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 29507

Ion	Ratio	Lower	Upper
76	100		
78	12.8	0.0	41.5
44	19.7	0.0	44.6

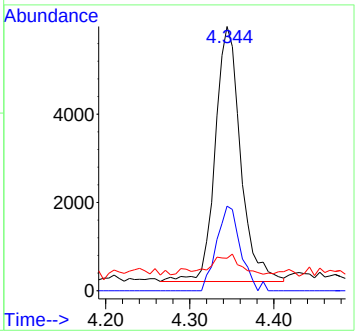


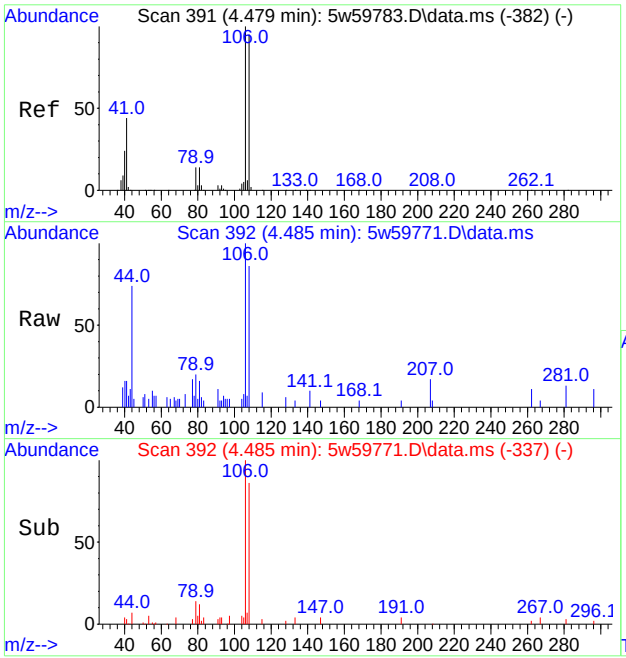


#28
ETHANOL
Concen: 0.73 PPBV
RT: 4.344 min Scan# 369
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 45 Resp: 12121

Ion	Ratio	Lower	Upper
45	100		
46	31.3	2.0	62.0
42	10.3	0.0	38.5

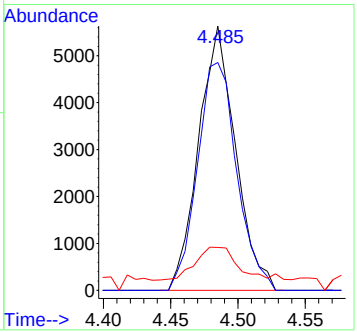


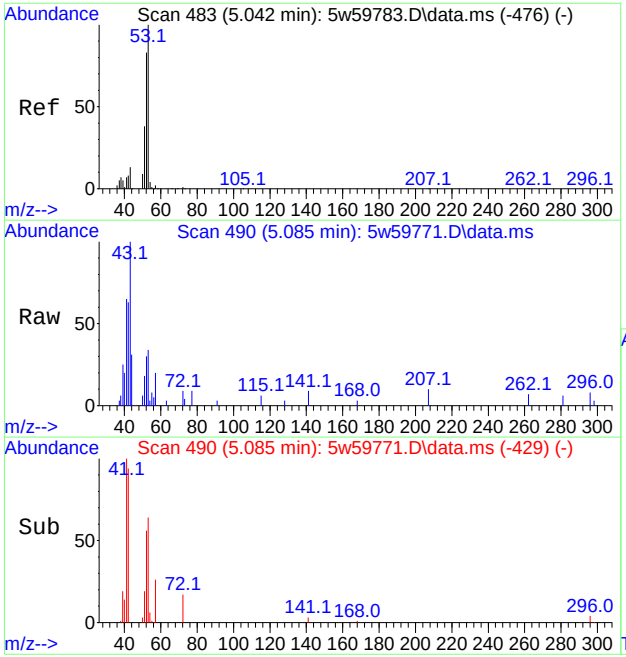


#29
BROMOETHENE
Concen: 0.22 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 10750

Ion	Ratio	Lower	Upper
106	100		
108	92.0	65.6	125.6
81	28.2	0.0	43.9

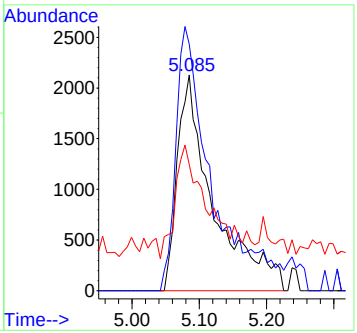


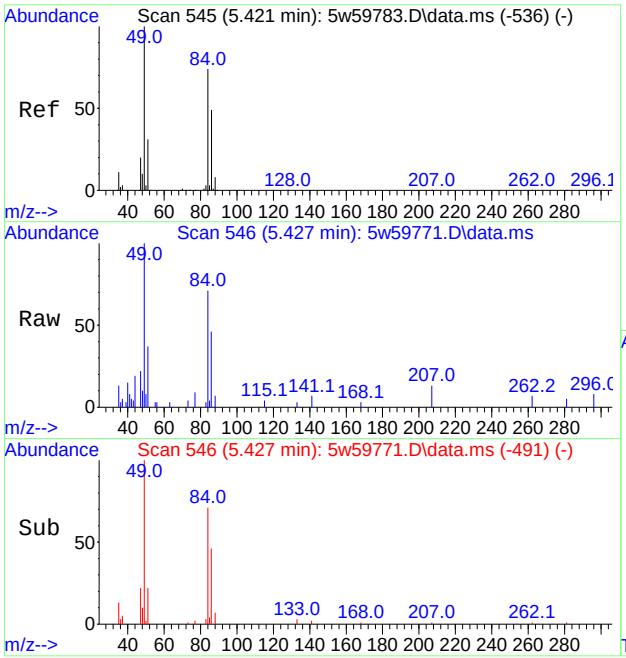


#30
ACRYLONITRILE
Concen: 0.26 PPBV
RT: 5.085 min Scan# 490
Delta R.T. 0.043 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 52 Resp: 7876

Ion	Ratio	Lower	Upper
52	100		
53	128.6	85.8	159.4
51	50.1	32.3	60.1

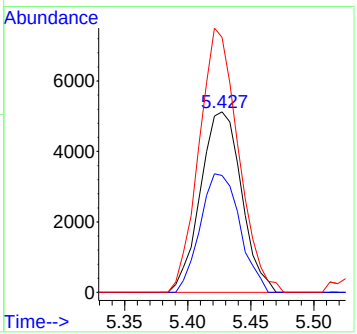


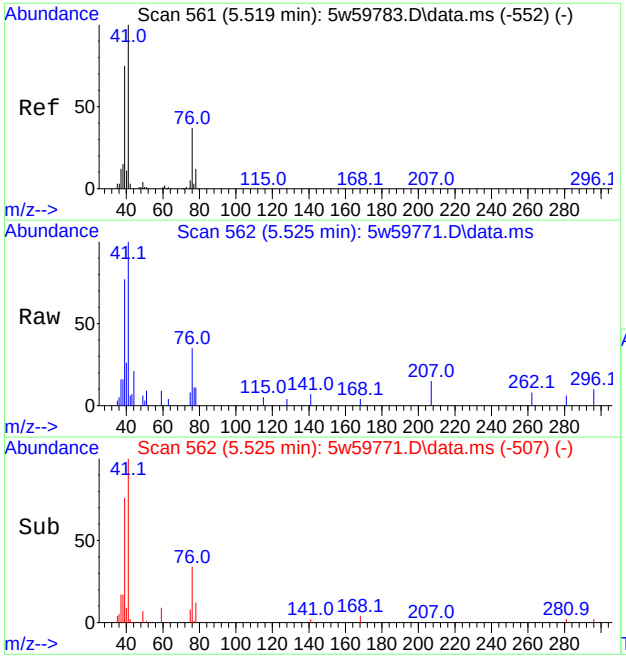


#31
METHYLENE CHLORIDE
Concen: 0.27 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 11602

Ion	Ratio	Lower	Upper
84	100		
86	63.2	35.2	95.2
49	139.5	105.3	165.3

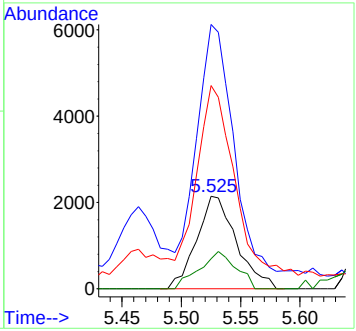


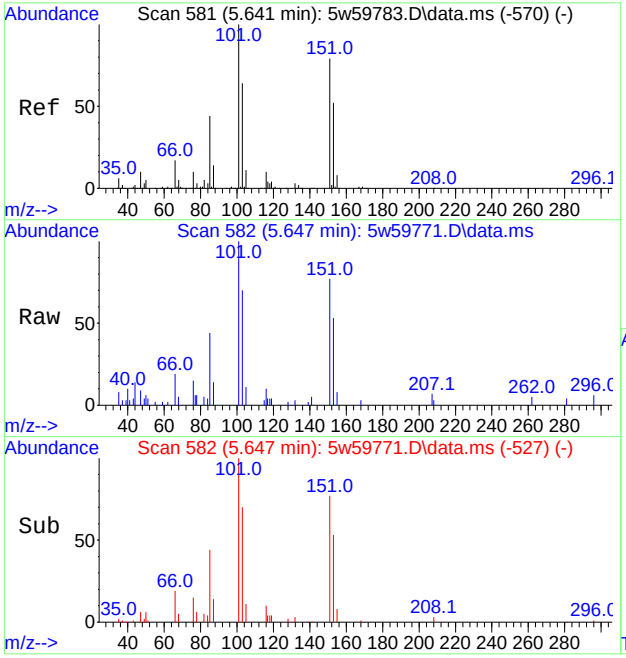


#32
3-CHLOROPROPENE
Concen: 0.22 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 4977

Ion	Ratio	Lower	Upper
76	100		
41	272.3	240.8	300.8
39	208.6	173.6	233.6
78	37.2	2.8	62.8

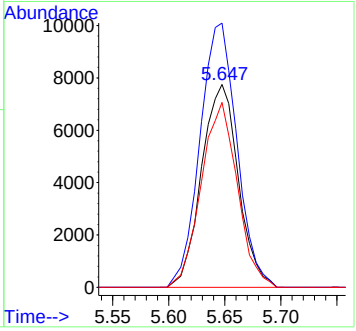


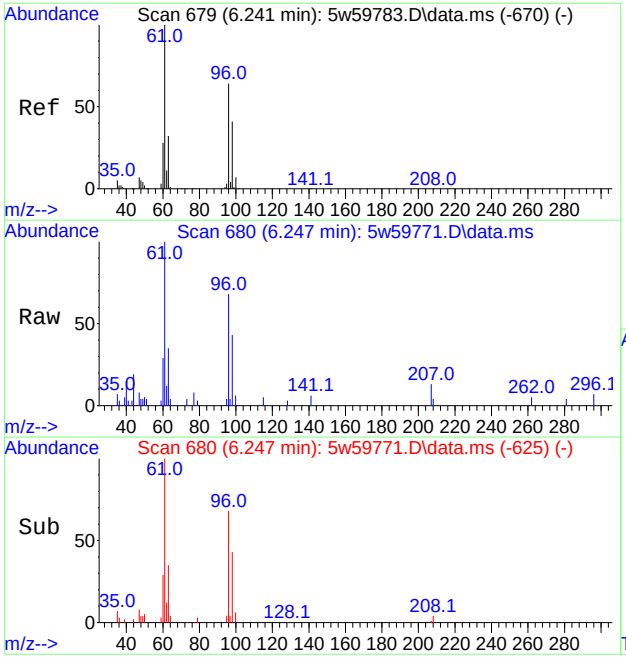


#33
FREON 113
Concen: 0.21 PPBV
RT: 5.647 min Scan# 582
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:151 Resp: 17747

Ion	Ratio	Lower	Upper
151	100		
101	130.5	97.5	157.5
103	89.3	52.5	112.5

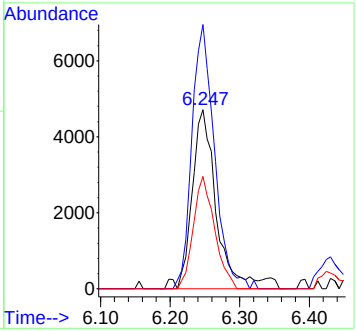


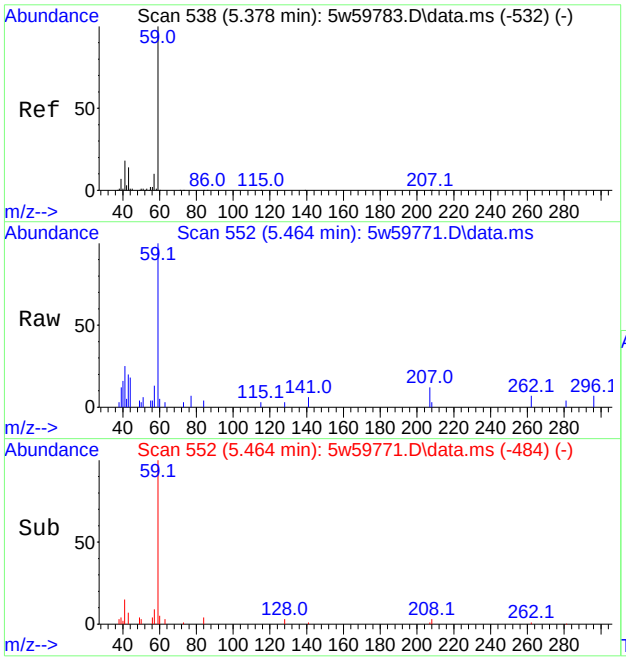


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 6.247 min Scan# 680
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 11590

Ion	Ratio	Lower	Upper
96	100		
61	135.4	126.4	186.4
98	54.1	34.1	94.1

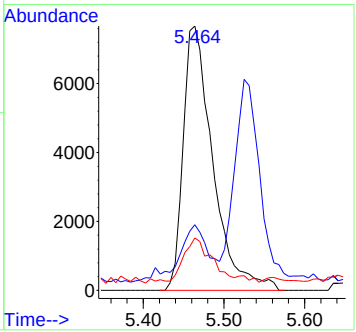


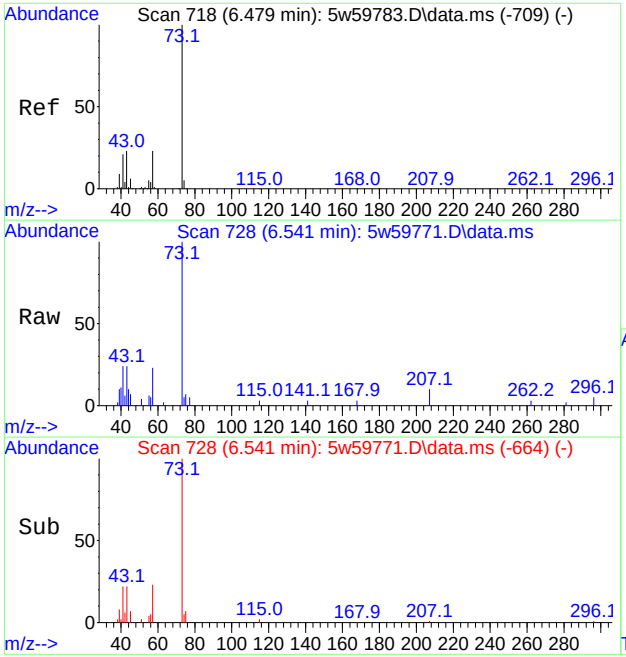


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.20 PPBV
RT: 5.464 min Scan# 552
Delta R.T. 0.086 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 19541

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	16.8	0.0	44.1

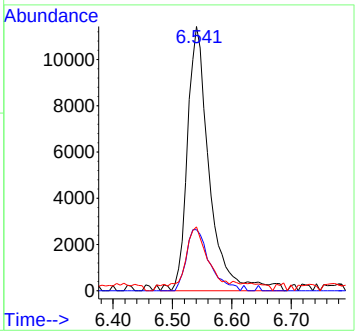


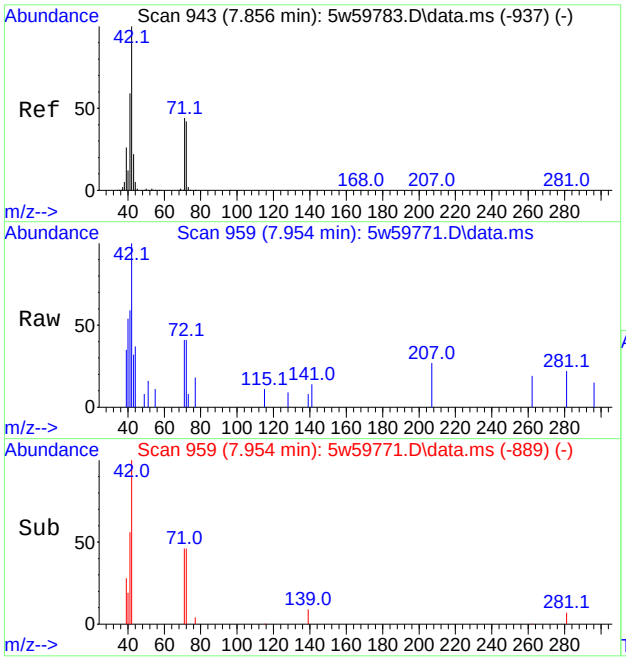


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.23 PPBV
RT: 6.541 min Scan# 728
Delta R.T. 0.062 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 73 Resp: 29335

Ion	Ratio	Lower	Upper
73	100		
57	24.5	0.0	53.1
41	30.1	0.0	50.6

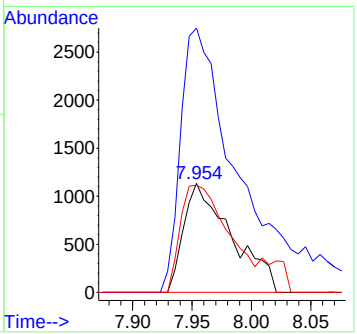


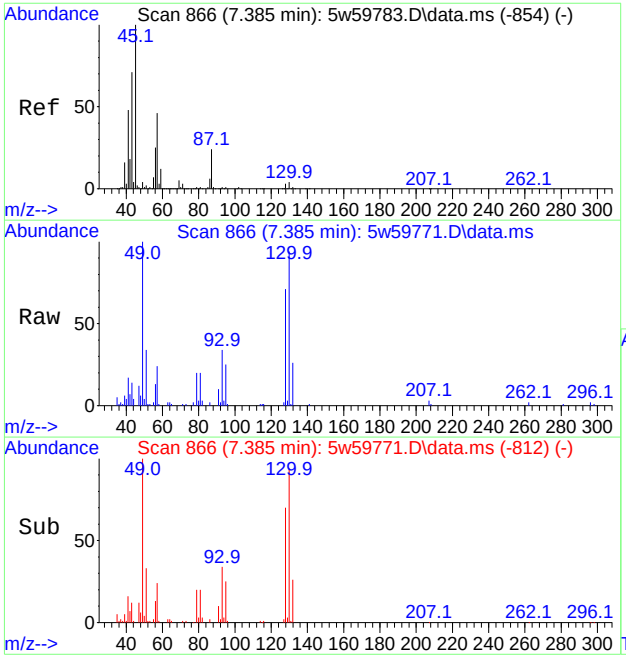


#37
TETRAHYDROFURAN
Concen: 0.16 PPBV
RT: 7.954 min Scan# 959
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 3172

Ion	Ratio	Lower	Upper
72	100		
42	320.8	202.4	262.4#
71	114.2	71.1	131.1

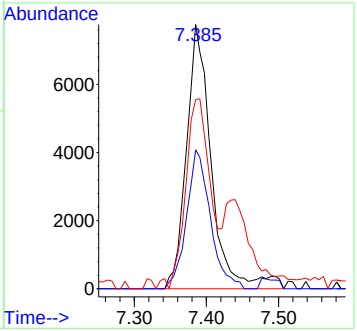


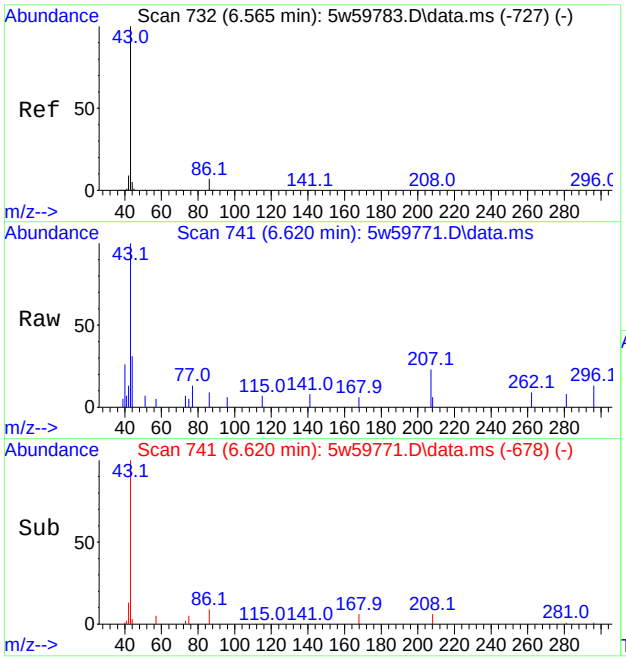


#38
HEXANE
Concen: 0.26 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18650

Ion	Ratio	Lower	Upper
57	100		
56	50.0	25.9	85.9
41	73.1	74.7	134.7#

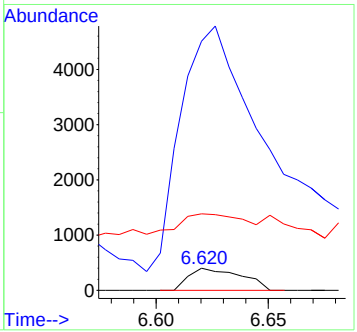


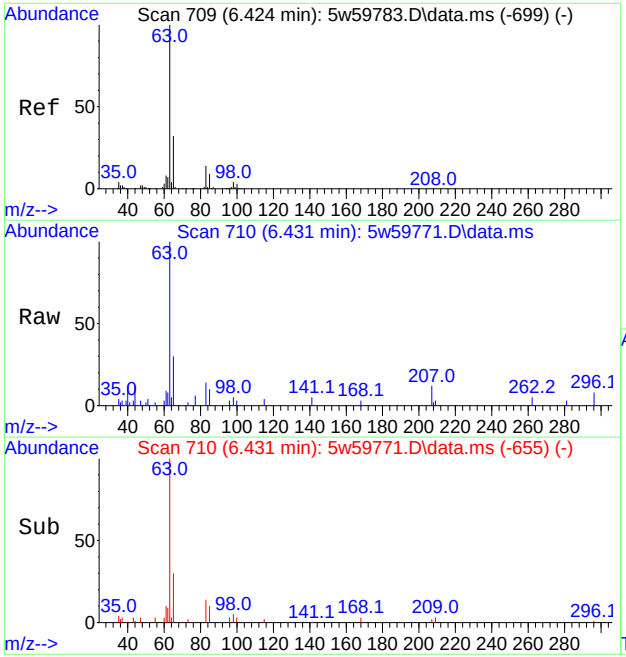


#39
VINYL ACETATE
Concen: 0.09 PPBV
RT: 6.620 min Scan# 741
Delta R.T. 0.055 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 86 Resp: 653

Ion	Ratio	Lower	Upper
86	100		
43	2548.1	1379.7	1439.7#
44	190.8	36.9	96.9#

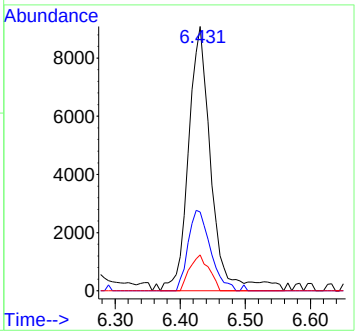


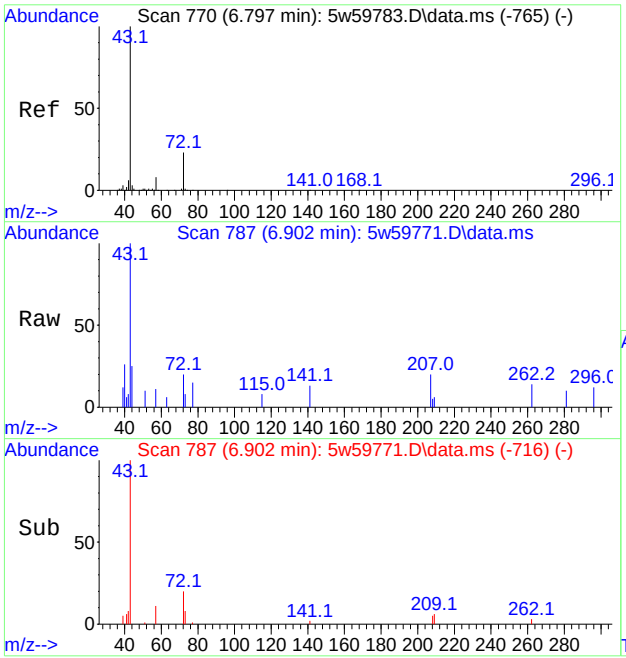


#40
1,1-DICHLOROETHANE
Concen: 0.23 PPBV
RT: 6.431 min Scan# 710
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 21909

Ion	Ratio	Lower	Upper
63	100		
65	30.0	1.7	61.7
83	11.7	0.0	43.5

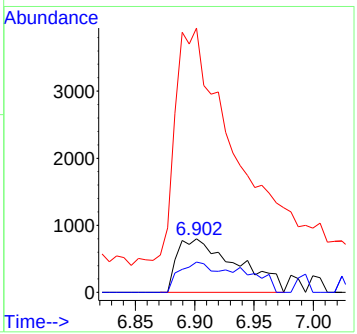


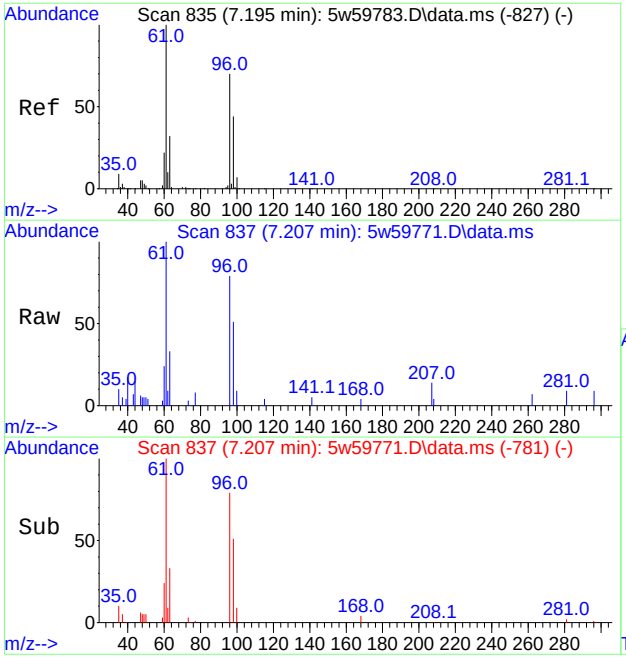


#41
METHYL ETHYL KETONE
Concen: 0.14 PPBV
RT: 6.902 min Scan# 787
Delta R.T. 0.105 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 72 Resp: 2781

Ion	Ratio	Lower	Upper
72	100		
57	56.4	4.8	64.8
43	493.5	415.9	475.9#

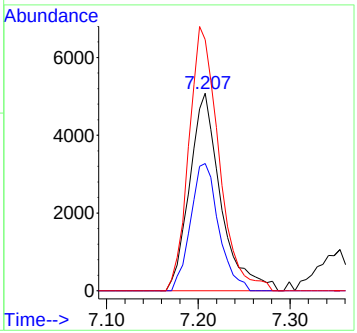


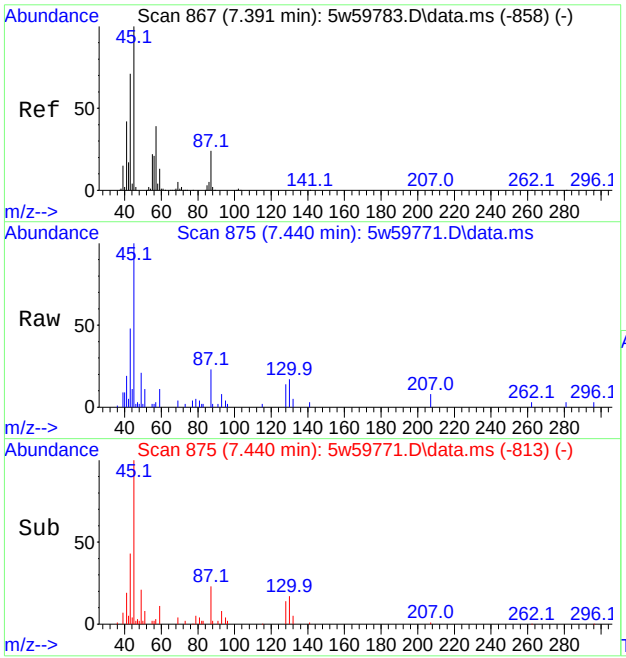


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.22 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 96 Resp: 12027

Ion	Ratio	Lower	Upper
96	100		
98	58.2	34.0	94.0
61	128.8	111.5	171.5

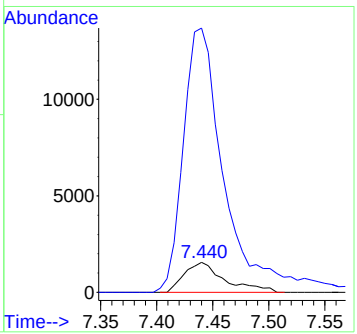


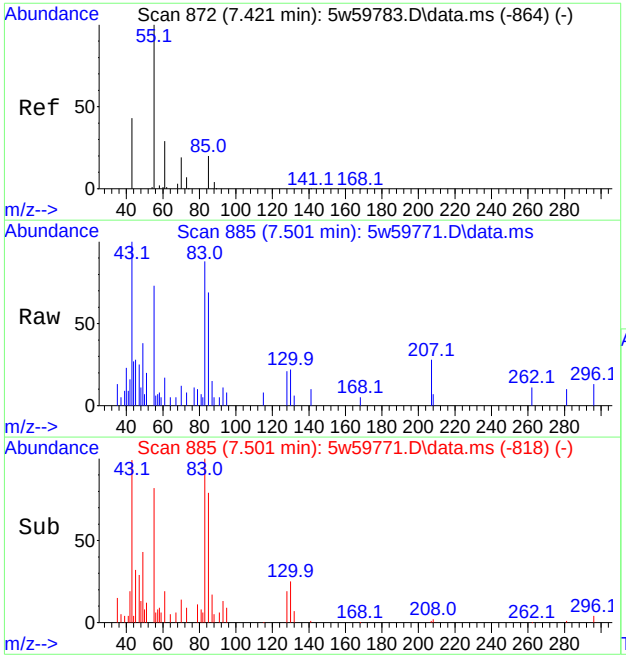


#43
DIISOPROPYL ETHER
Concen: 0.18 PPBV
RT: 7.440 min Scan# 875
Delta R.T. 0.049 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 59 Resp: 3909

Ion	Ratio	Lower	Upper
59	100		
45	923.5	720.9	780.9#

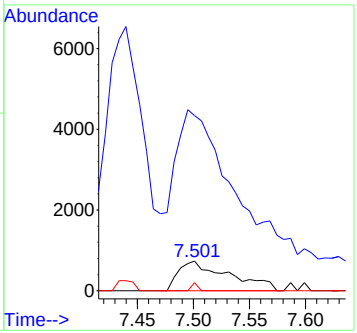


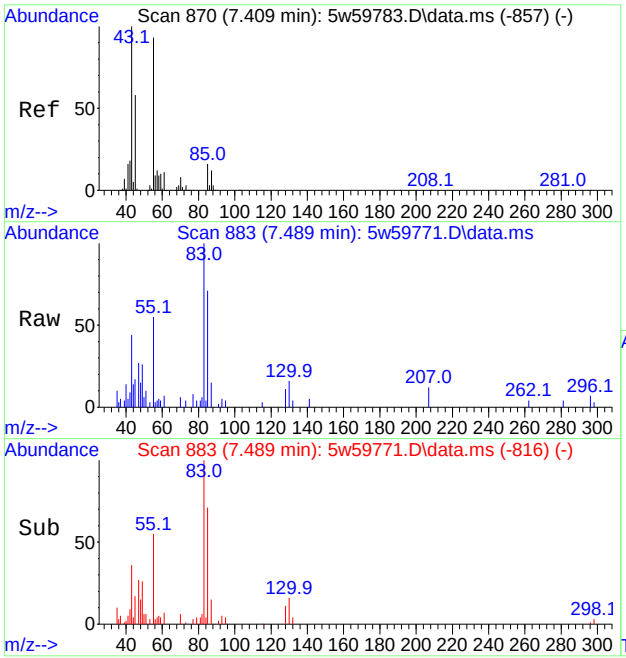


#44
ETHYL ACETATE
Concen: 0.15 PPBV m
RT: 7.501 min Scan# 885
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 61 Resp: 2309

Ion	Ratio	Lower	Upper
61	100		
43	613.1	560.5	620.5
88	3.2	4.5	64.5#

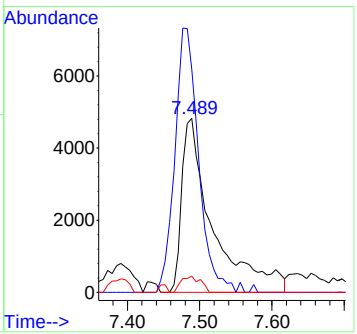


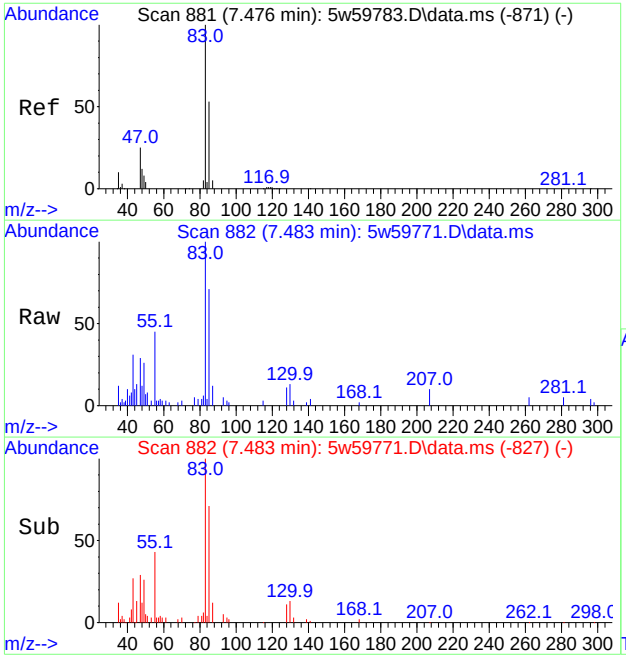


#45
METHYL ACRYLATE
Concen: 0.17 PPBV m
RT: 7.489 min Scan# 883
Delta R.T. 0.080 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 14366

Ion	Ratio	Lower	Upper
55	100		
85	116.3	10.9	20.3#
58	5.8	9.4	17.6#

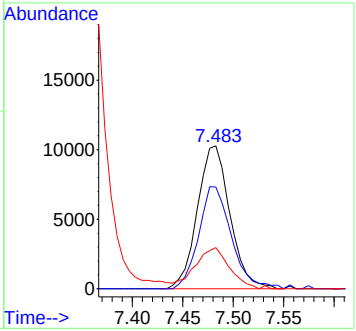


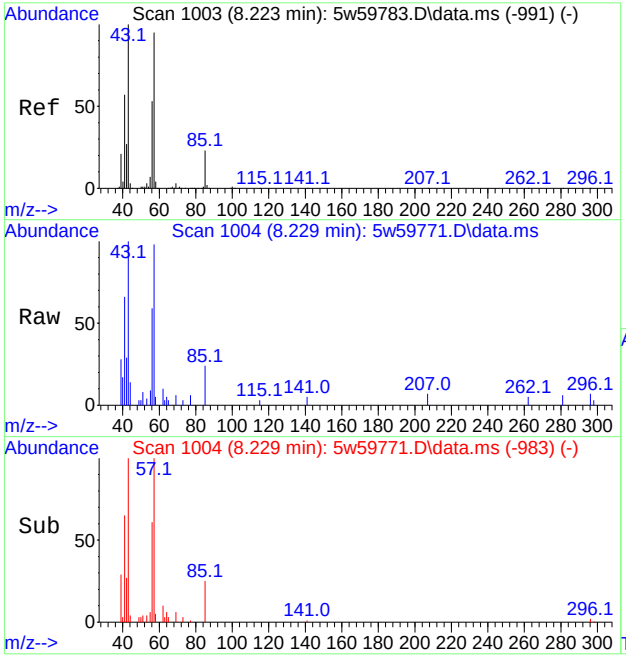


#46
CHLOROFORM
Concen: 0.22 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 23090

Ion	Ratio	Lower	Upper
83	100		
85	72.4	35.6	95.6
47	30.7	0.0	55.2

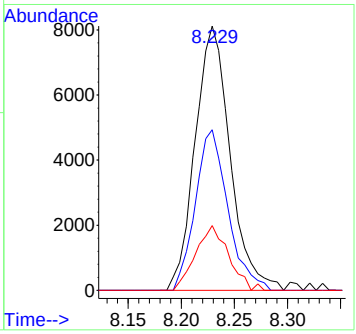


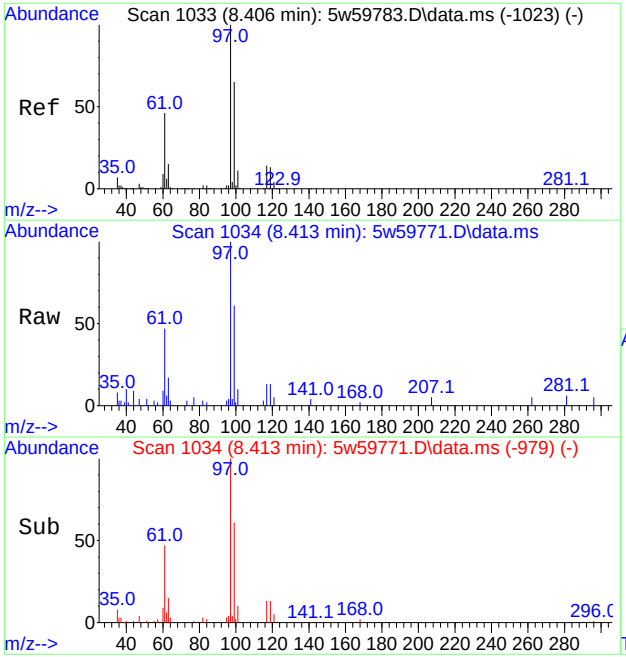


#47
2,4-DIMETHYLPENTANE
Concen: 0.22 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 18643

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.1	0.0	53.8

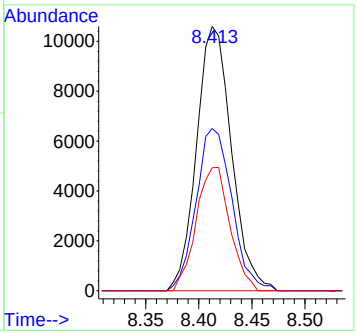


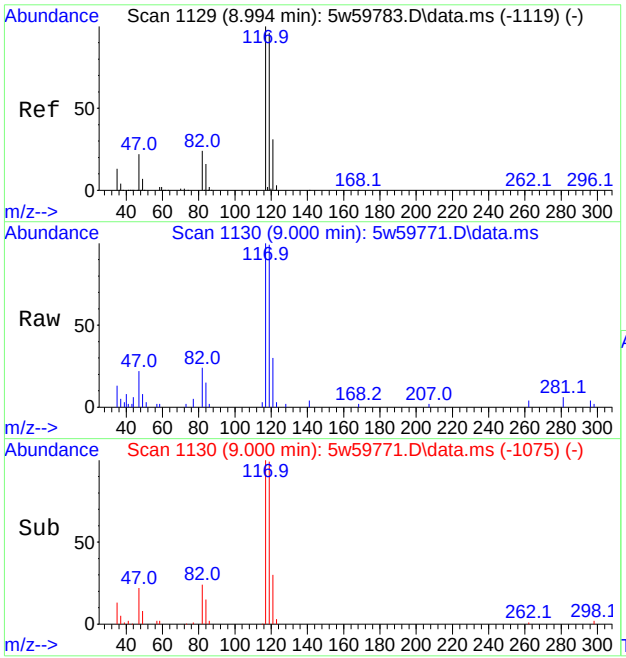


#48
1,1,1-TRICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 97 Resp: 24304

Ion	Ratio	Lower	Upper
97	100		
99	62.9	34.8	94.8
61	44.9	15.8	75.8

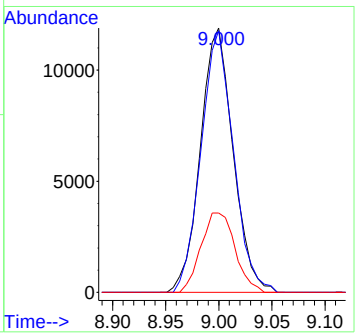


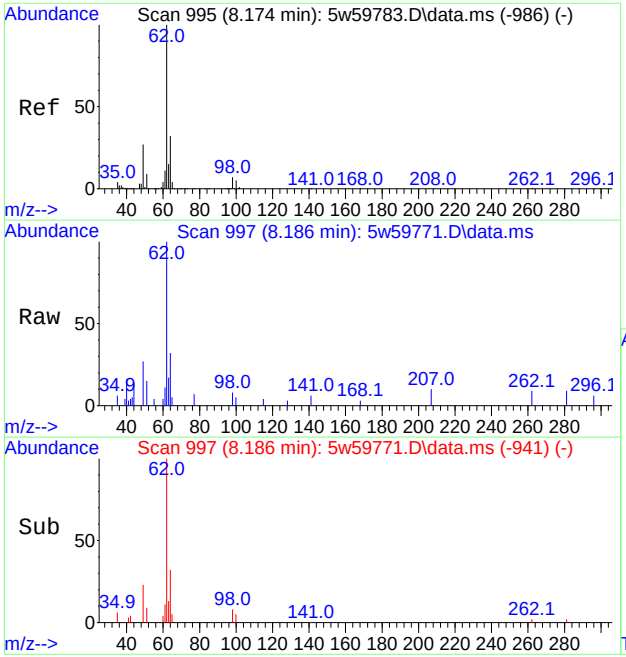


#49
CARBON TETRACHLORIDE
Concen: 0.21 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 25552

Ion	Ratio	Lower	Upper
117	100		
119	97.5	66.9	126.9
121	31.2	1.3	61.3

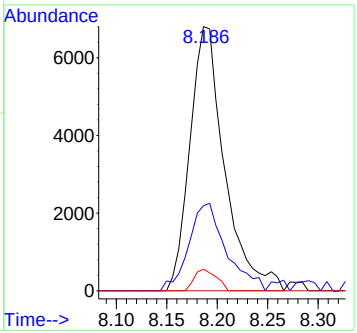


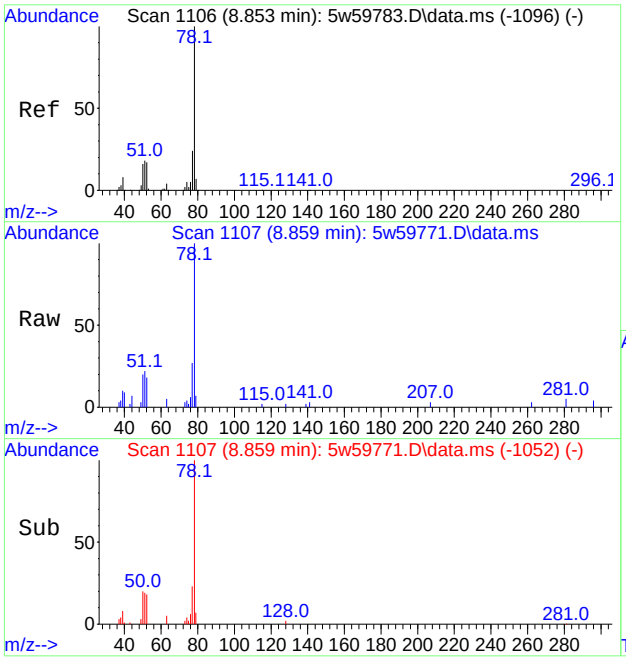


#50
1,2-DICHLOROETHANE
Concen: 0.22 PPBV
RT: 8.186 min Scan# 997
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 62 Resp: 16304

Ion	Ratio	Lower	Upper
62	100		
64	35.5	2.3	62.3
98	5.2	0.0	36.9

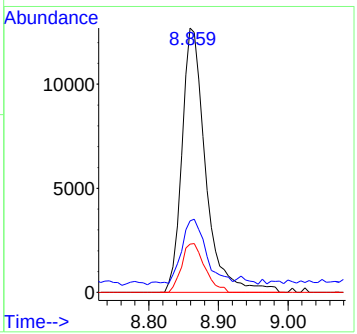


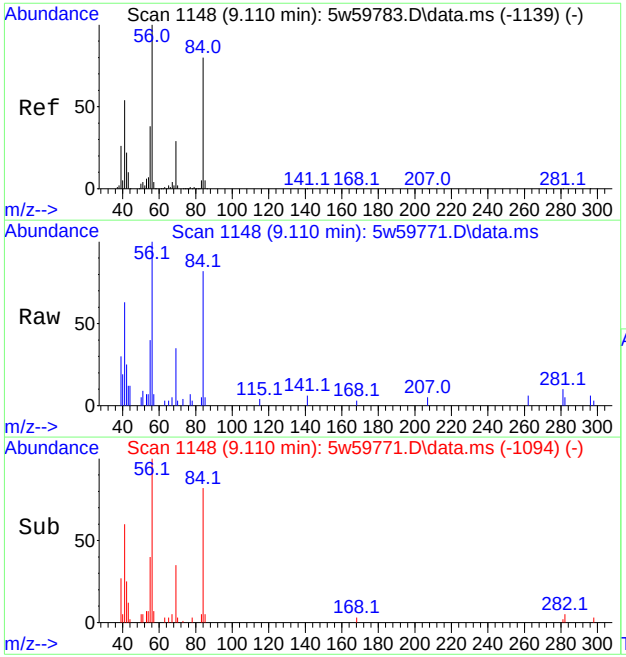


#52
BENZENE
Concen: 0.21 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 78 Resp: 30072

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	18.0	0.0	46.9

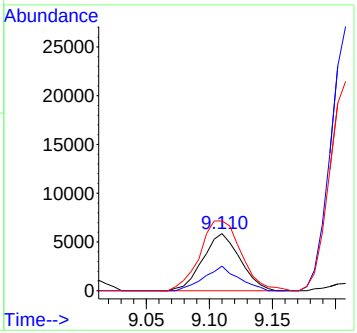


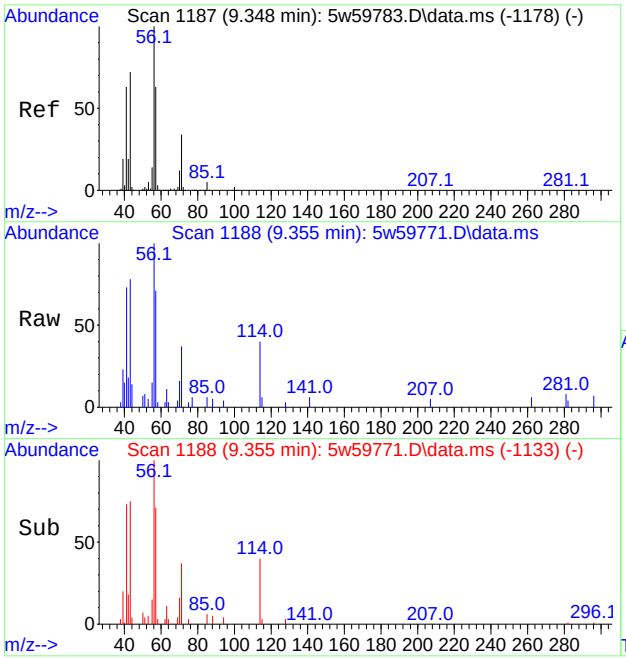


#53
CYCLOHEXANE
Concen: 0.20 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 84 Resp: 12037

Ion	Ratio	Lower	Upper
84	100		
69	39.7	6.9	66.9
56	135.6	98.2	158.2

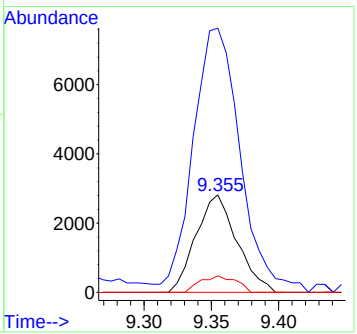




#54
2,3-DIMETHYLPENTANE
Concen: 0.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

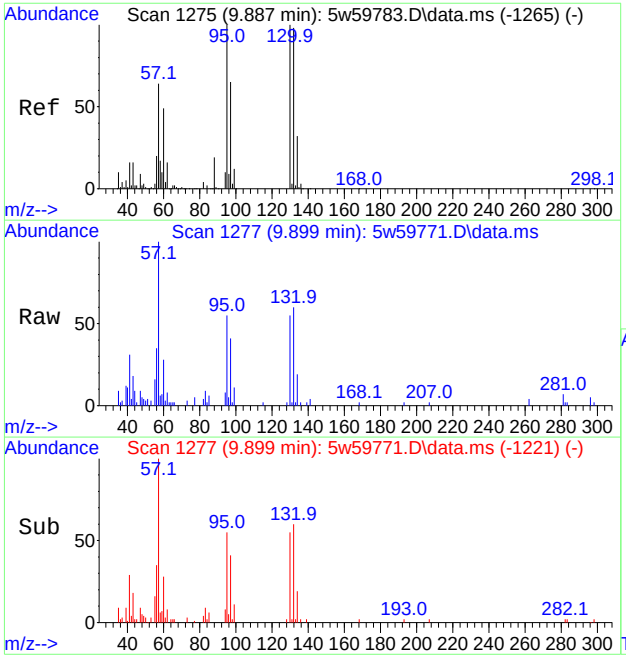
Tgt Ion: 71 Resp: 5961

Ion	Ratio	Lower	Upper
71	100		
56	313.5	264.6	324.6
85	14.8	0.0	45.3



7.7.3

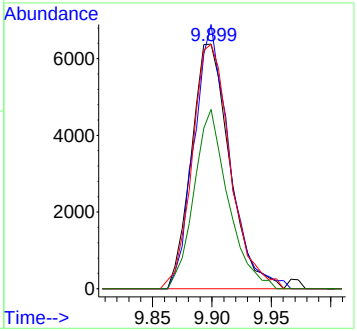
7

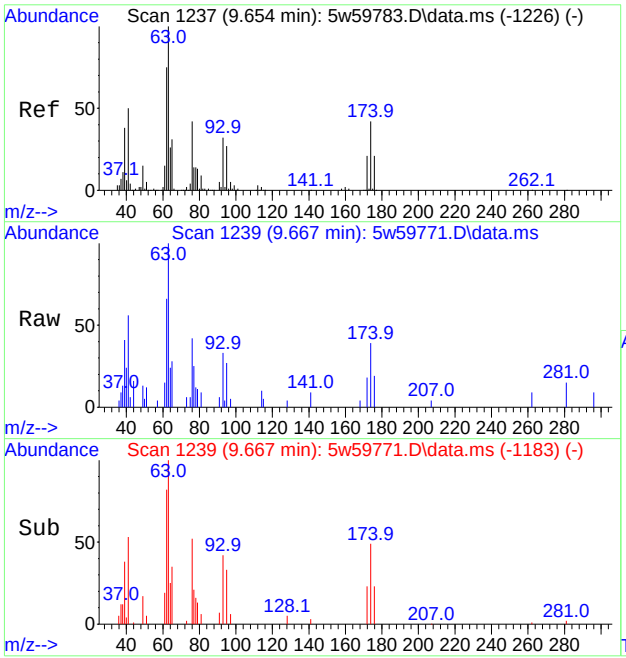


#55
TRICHLOROETHYLENE
Concen: 0.19 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 95 Resp: 14290

Ion	Ratio	Lower	Upper
95	100		
132	99.8	69.0	129.0
130	99.4	70.6	130.6
97	65.4	34.6	94.6

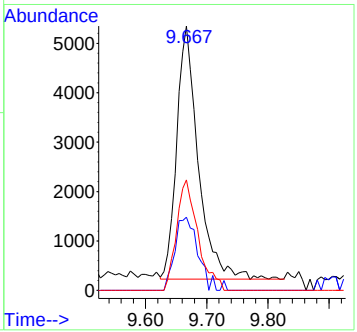


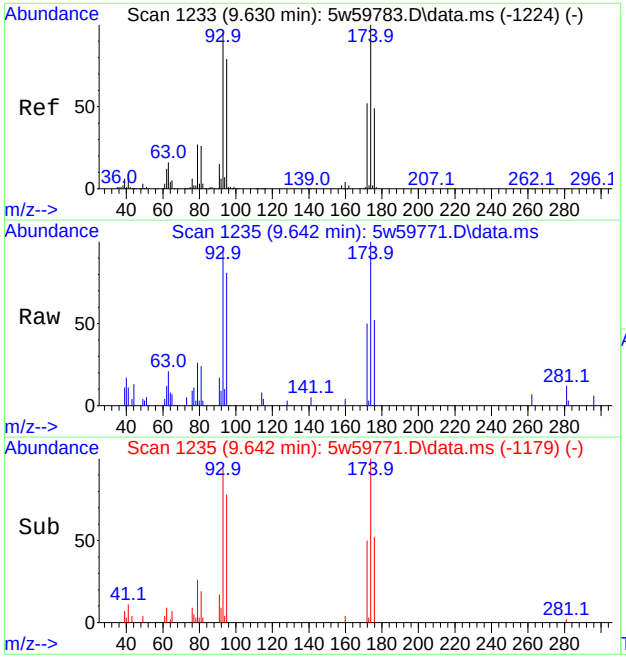


#56
1,2-DICHLOROPROPANE
Concen: 0.20 PPBV
RT: 9.667 min Scan# 1239
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 63 Resp: 12562

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	43.0	11.5	71.5

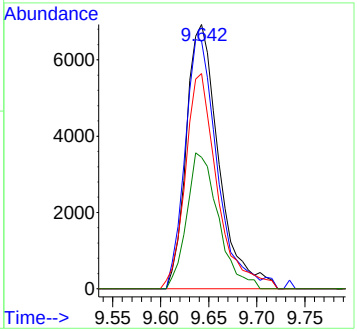


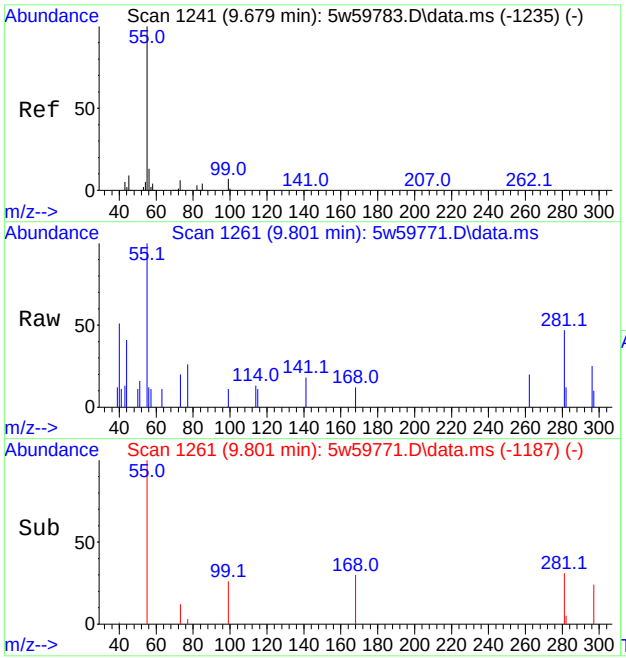


#57
DIBROMOMETHANE
Concen: 0.20 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:174 Resp: 16323

Ion	Ratio	Lower	Upper
174	100		
93	94.4	65.0	120.6
95	79.7	54.5	101.1
172	50.0	36.3	67.5

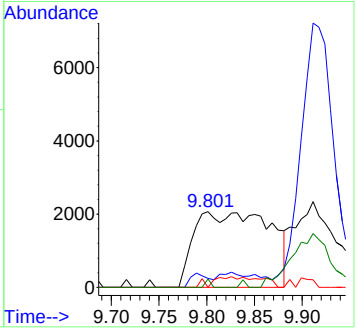


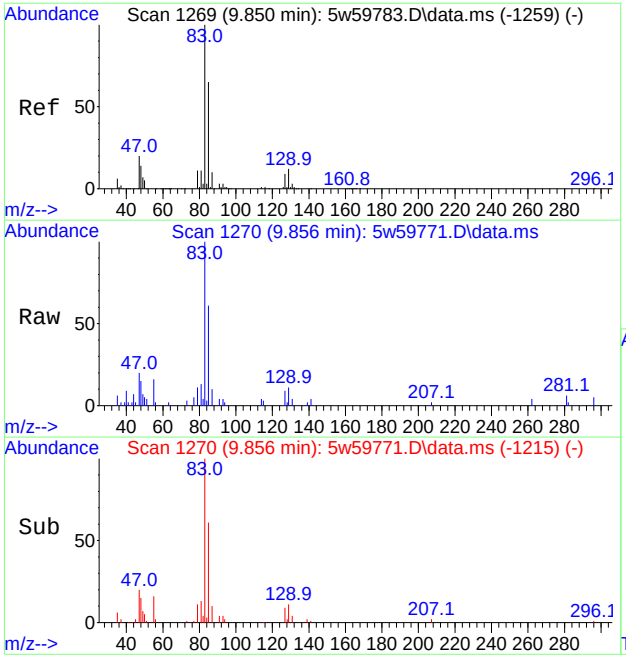


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV m
RT: 9.801 min Scan# 1261
Delta R.T. 0.122 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 55 Resp: 11494

Ion	Ratio	Lower	Upper
55	100		
56	0.0	8.6	16.0#
45	0.0	6.6	12.2#
99	0.0	6.4	12.0#

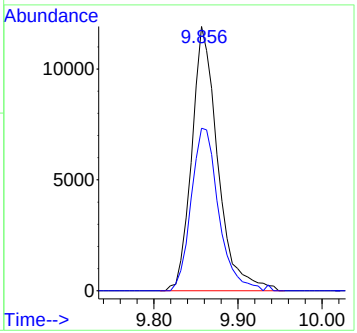


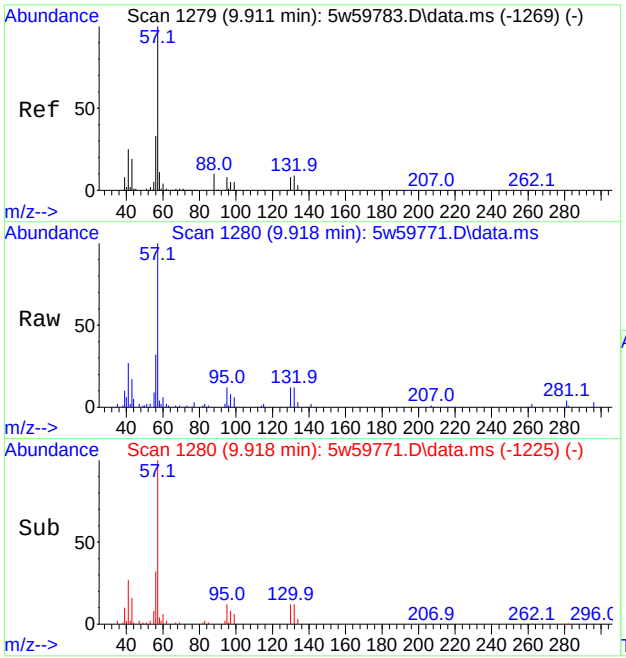


#59
BROMODICHLOROMETHANE
Concen: 0.20 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 25637

Ion	Ratio	Lower	Upper
83	100		
85	64.9	33.4	93.4

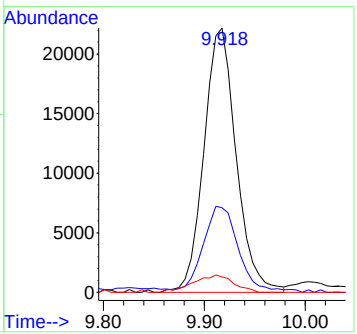


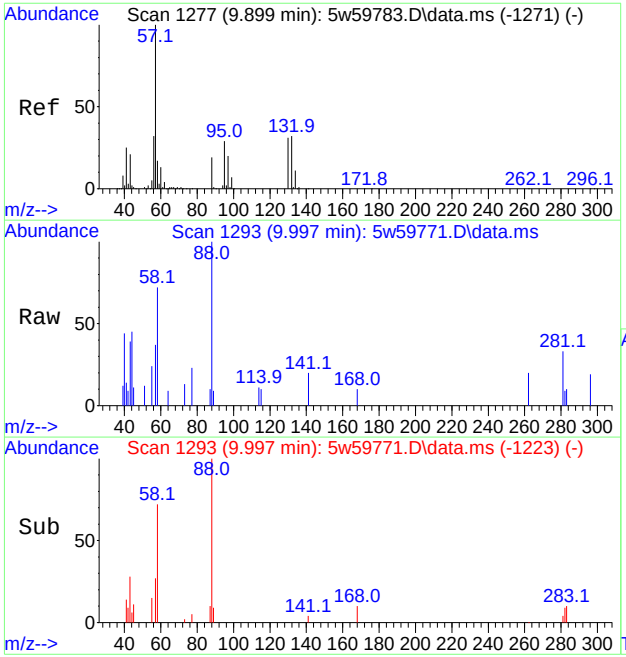


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.21 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 57 Resp: 49437

Ion	Ratio	Lower	Upper
57	100		
56	35.7	2.5	62.5
99	8.3	0.0	37.3

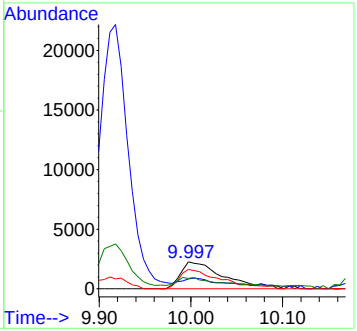


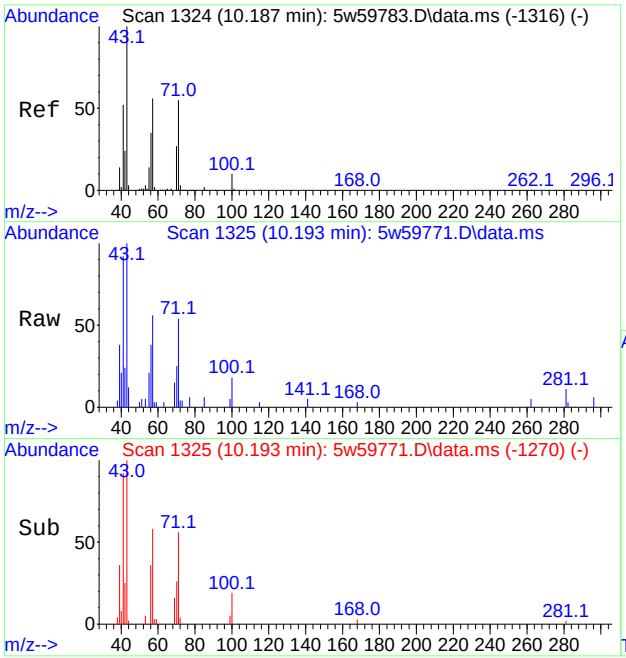


#61
1,4-DIOXANE
Concen: 0.22 PPBV
RT: 9.997 min Scan# 1293
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 88 Resp: 7396

Ion	Ratio	Lower	Upper
88	100		
57	36.9	494.2	554.2#
58	72.0	58.9	118.9
43	38.6	78.3	138.3#

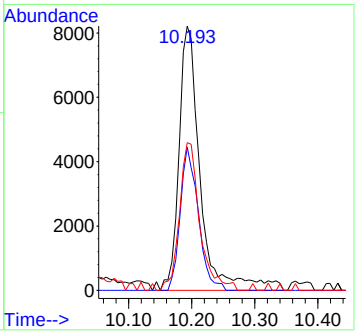


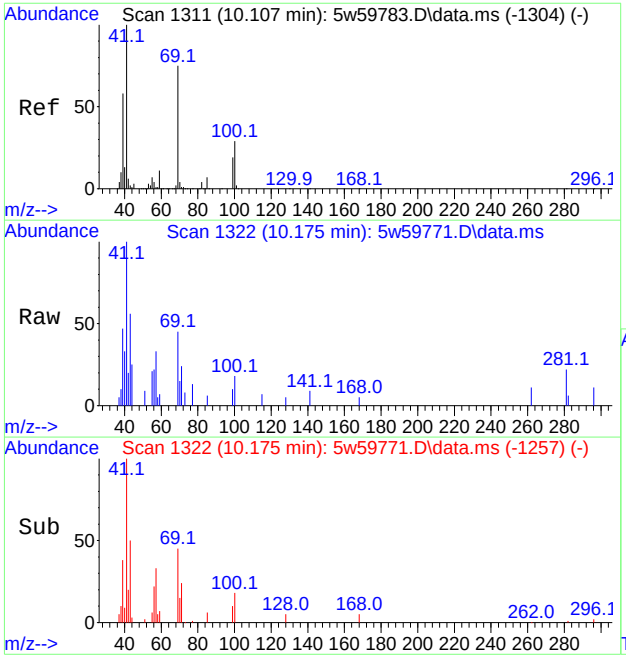


#62
HEPTANE
Concen: 0.24 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 19280

Ion	Ratio	Lower	Upper
43	100		
71	45.8	24.5	84.5
57	53.5	26.2	86.2

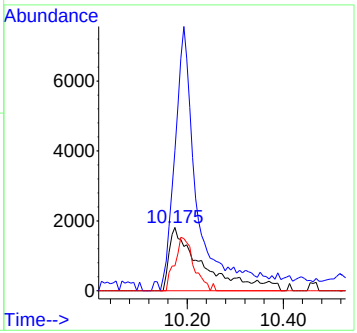


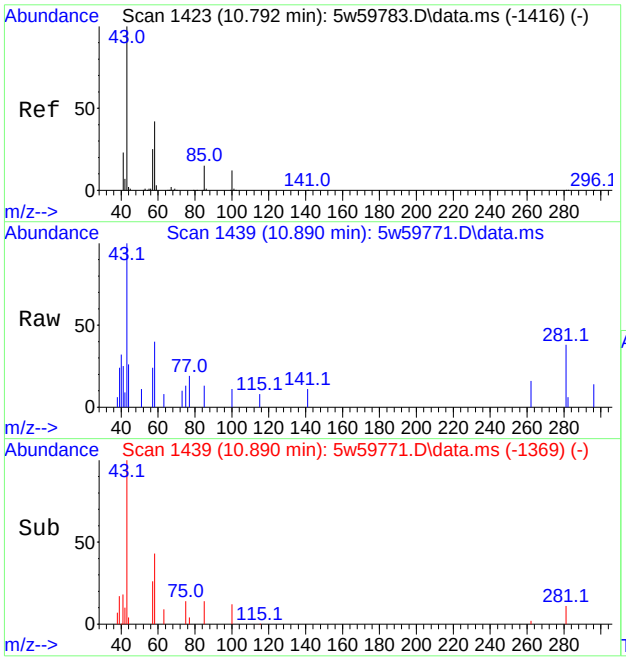


#63
METHYL METHACRYLATE
Concen: 0.18 PPBV
RT: 10.175 min Scan# 1322
Delta R.T. 0.068 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 8860

Ion	Ratio	Lower	Upper
69	100		
41	286.0	95.3	155.3#
100	47.7	6.3	66.3

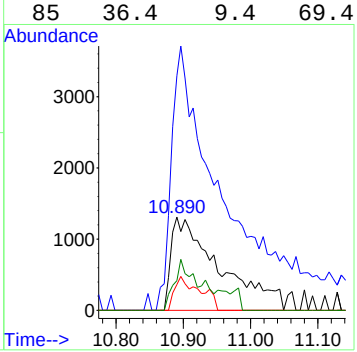


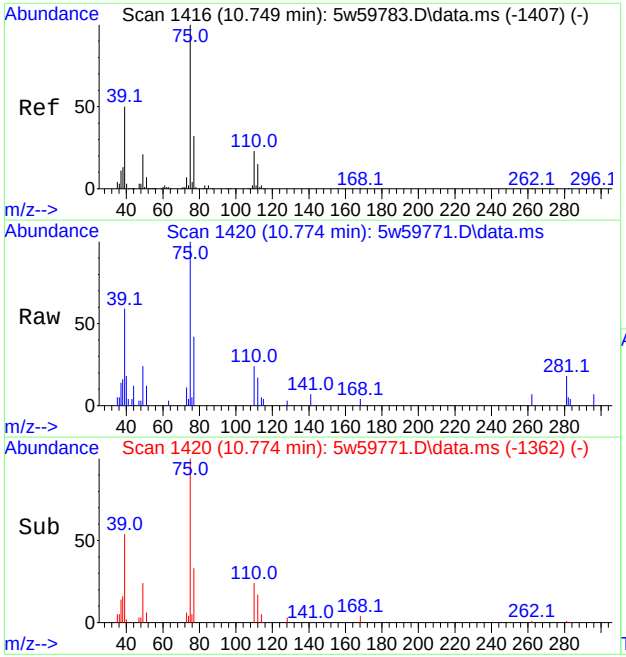


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 10.890 min Scan# 1439
Delta R.T. 0.098 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 6548

Ion	Ratio	Lower	Upper
58	100		
43	299.8	209.2	269.2#
100	19.0	0.0	58.8
85	36.4	9.4	69.4

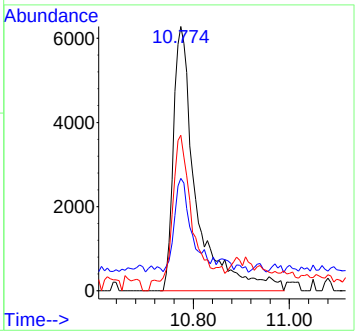


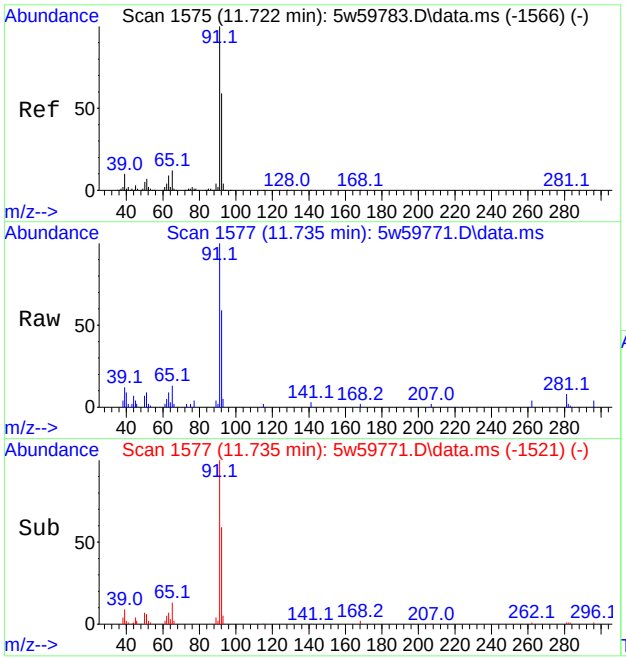


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 10.774 min Scan# 1420
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 20672

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	57.0	34.3	94.3

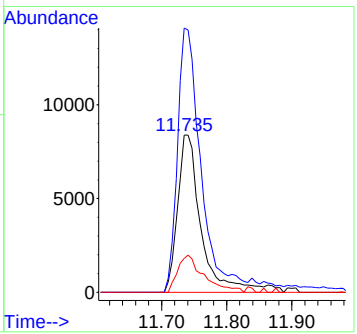


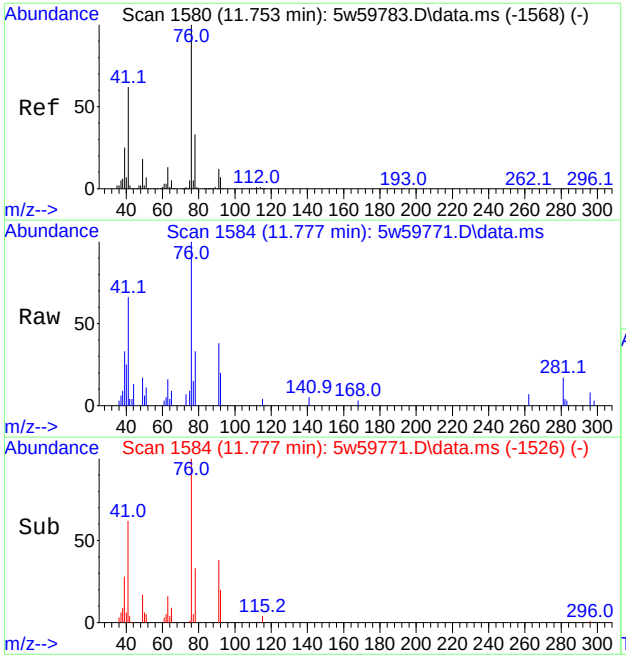


#66
TOLUENE
Concen: 0.19 PPBV
RT: 11.735 min Scan# 1577
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 92 Resp: 21289

Ion	Ratio	Lower	Upper
92	100		
91	180.0	140.1	200.1
65	25.9	0.0	53.1

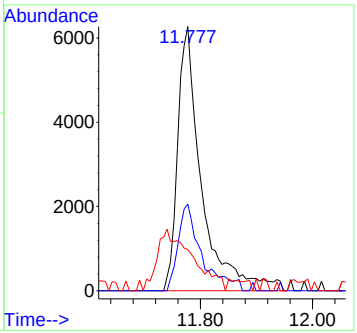


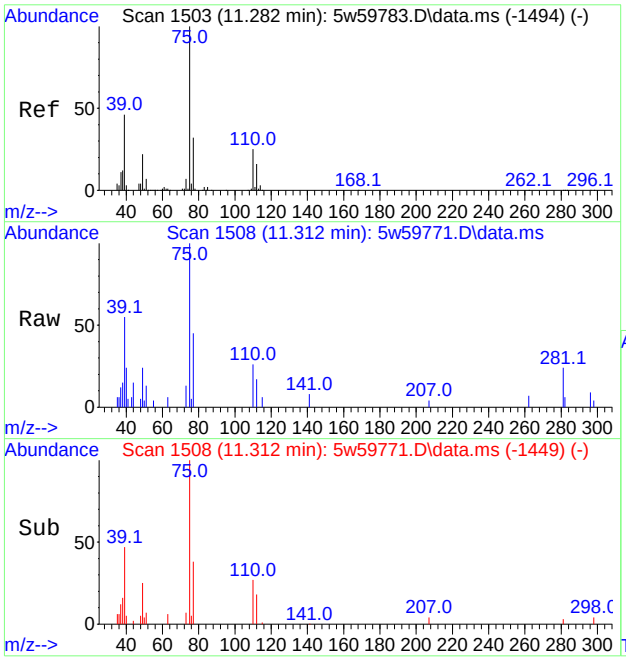


#67
1,3-DICHLOROPROPANE
Concen: 0.21 PPBV m
RT: 11.777 min Scan# 1584
Delta R.T. 0.024 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 76 Resp: 18562

Ion	Ratio	Lower	Upper
76	100		
78	32.2	23.2	43.0
63	9.4	7.1	13.1

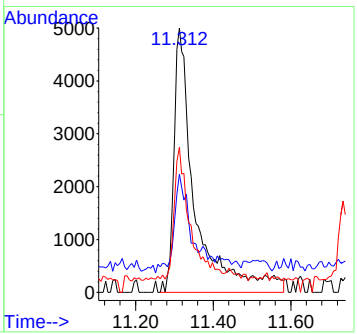


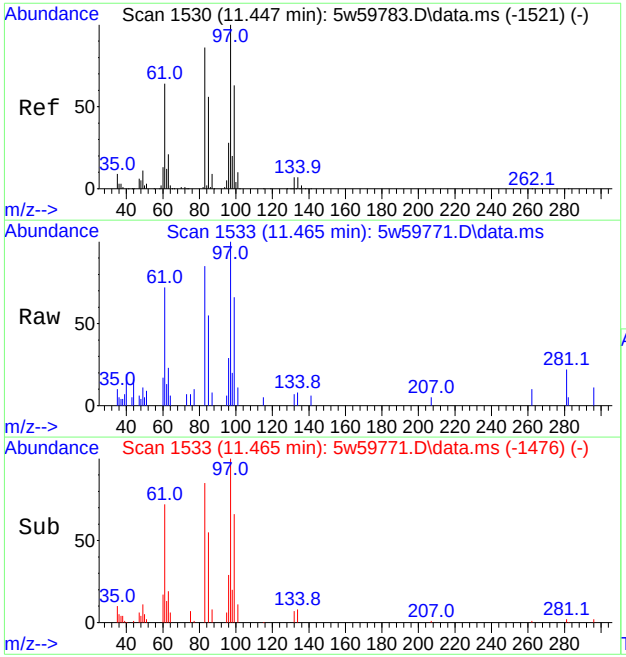


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.20 PPBV
RT: 11.312 min Scan# 1508
Delta R.T. 0.030 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 19068

Ion	Ratio	Lower	Upper
75	100		
77	35.2	1.6	61.6
39	50.1	16.1	76.1

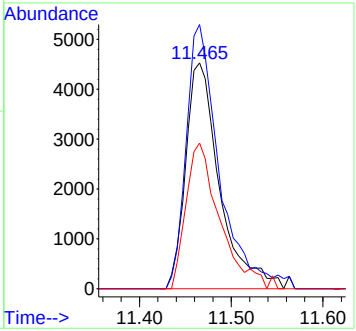


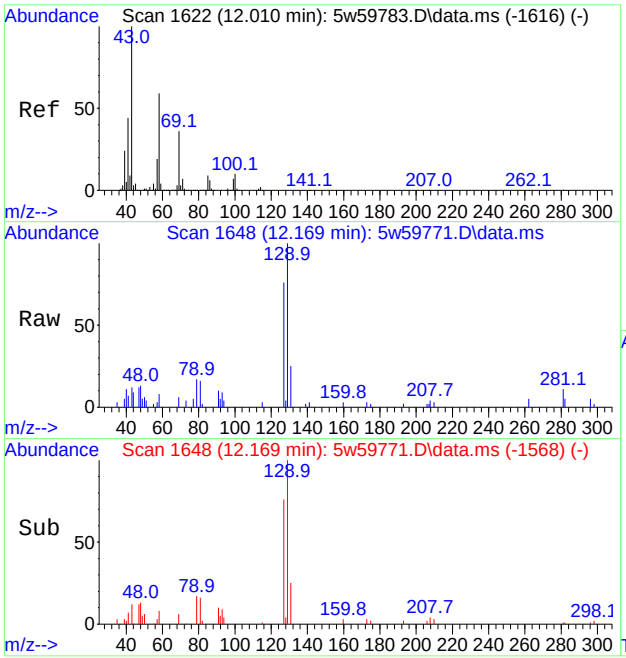


#69
1,1,2-TRICHLOROETHANE
Concen: 0.19 PPBV
RT: 11.465 min Scan# 1533
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 11660

Ion	Ratio	Lower	Upper
83	100		
97	114.8	86.3	146.3
85	64.7	35.3	95.3

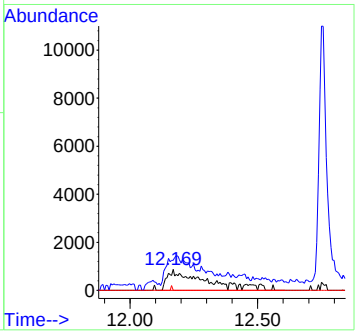


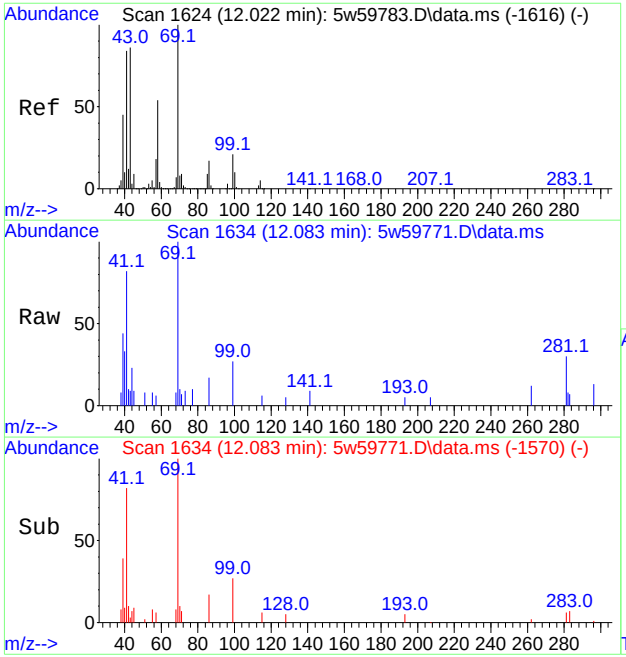


#71
2-HEXANONE
Concen: 0.16 PPBV m
RT: 12.169 min Scan# 1648
Delta R.T. 0.159 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 58 Resp: 9038

Ion	Ratio	Lower	Upper
58	100		
43	104.3	137.2	197.2#
100	0.0	0.0	46.9

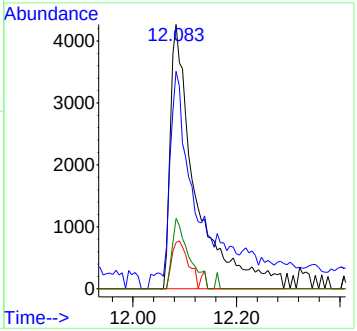


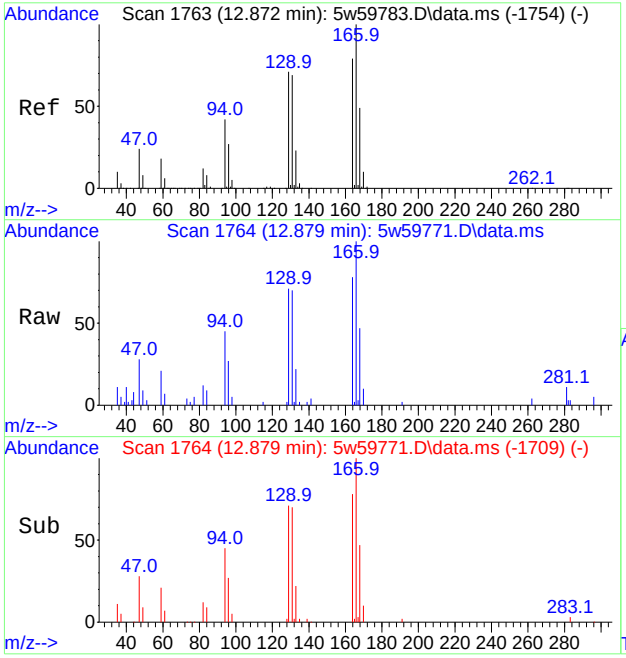


#72
ETHYL METHACRYLATE
Concen: 0.19 PPBV
RT: 12.083 min Scan# 1634
Delta R.T. 0.061 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 69 Resp: 14602

Ion	Ratio	Lower	Upper
69	100		
41	106.4	64.0	119.0
86	11.8	12.0	22.4#
99	17.3	15.0	27.8

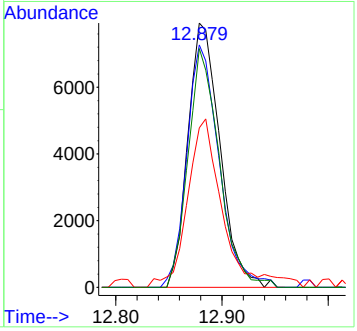


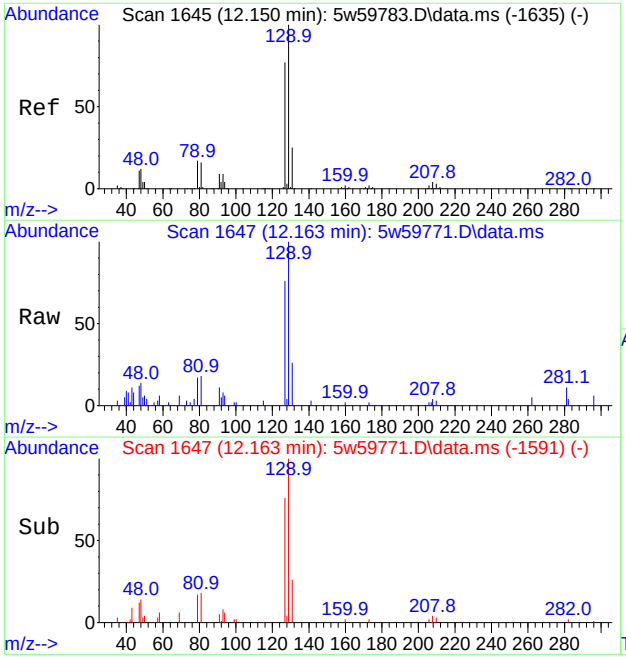


#73
TETRACHLOROETHYLENE
Concen: 0.23 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:164 Resp: 16678

Ion	Ratio	Lower	Upper
164	100		
129	92.5	59.7	119.7
168	69.8	32.2	92.2
131	88.1	57.8	117.8

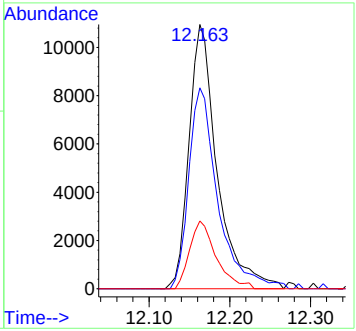


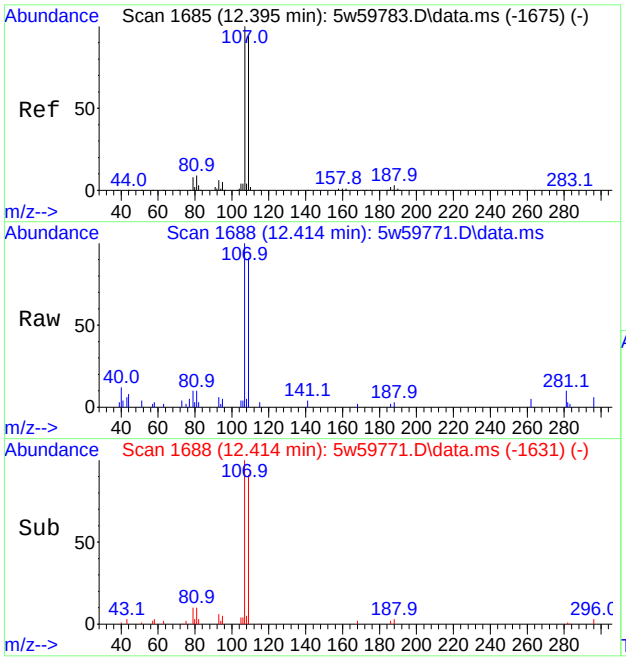


#74
DIBROMOCHLOROMETHANE
Concen: 0.21 PPBV
RT: 12.163 min Scan# 1647
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:129 Resp: 26574

Ion	Ratio	Lower	Upper
129	100		
127	78.2	47.1	107.1
131	24.1	0.0	54.5

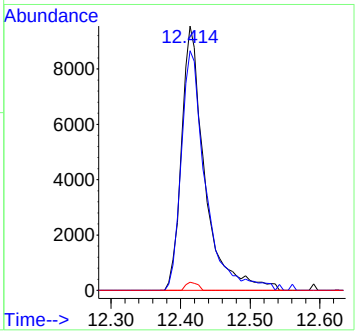


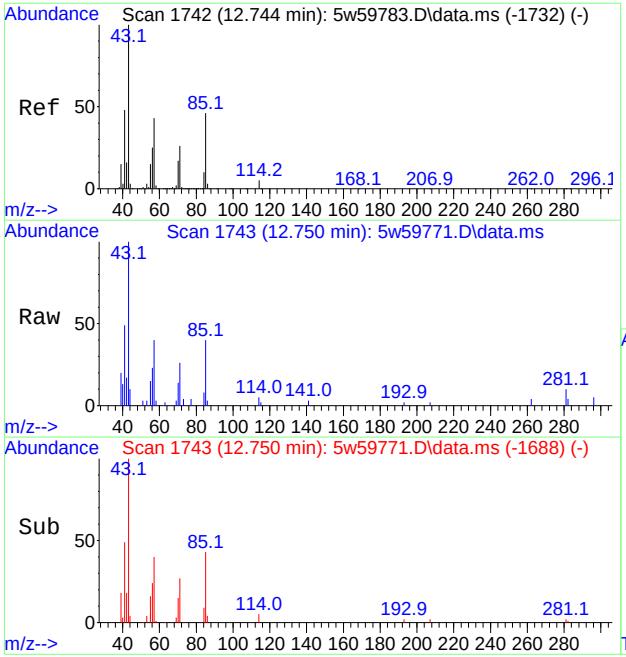


#75
1,2-DIBROMOETHANE
Concen: 0.22 PPBV
RT: 12.414 min Scan# 1688
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:107 Resp: 22241

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	1.6	0.0	32.8

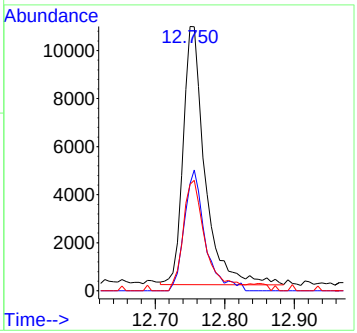


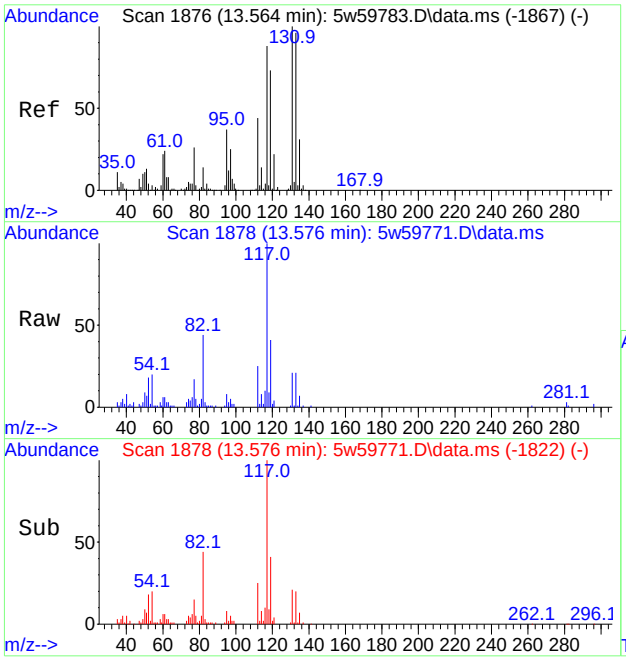


#76
OCTANE
Concen: 0.25 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 23489

Ion	Ratio	Lower	Upper
43	100		
85	44.5	14.6	74.6
57	46.5	13.7	73.7

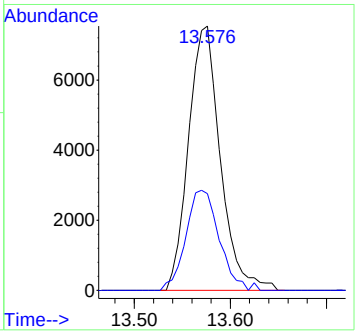


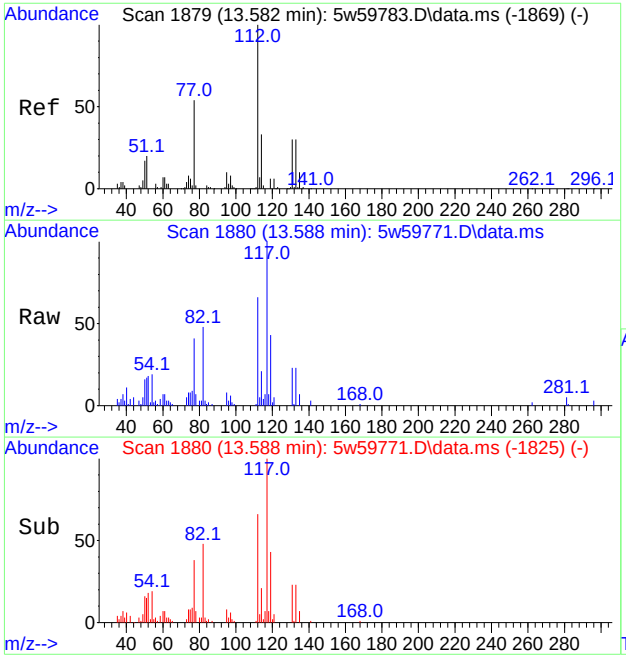


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.21 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:131 Resp: 17410

Ion	Ratio	Lower	Upper
131	100		
95	39.7	6.5	66.5

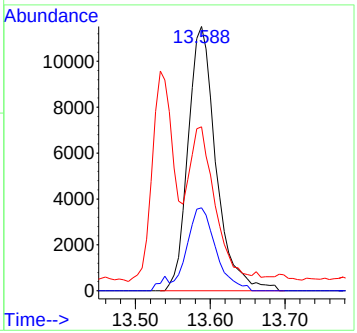


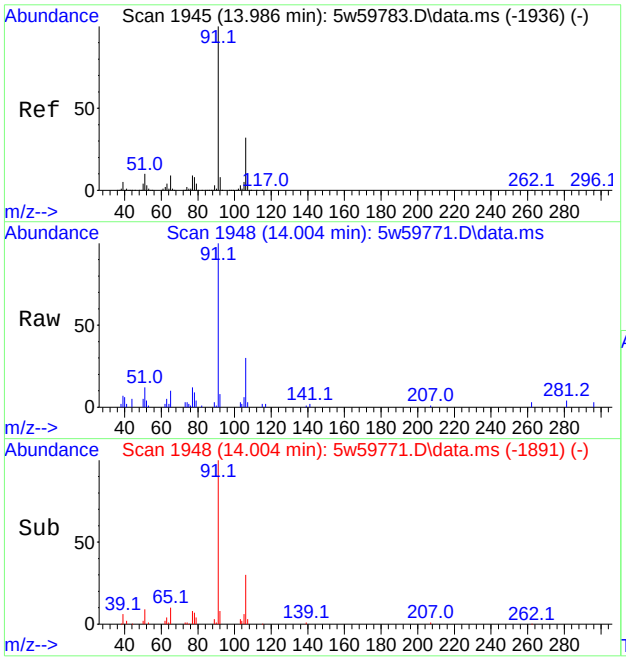


#78
CHLOROBENZENE
Concen: 0.23 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:112 Resp: 29927

Ion	Ratio	Lower	Upper
112	100		
114	32.2	2.6	62.6
77	55.6	25.4	85.4

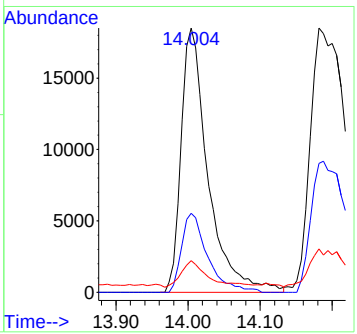


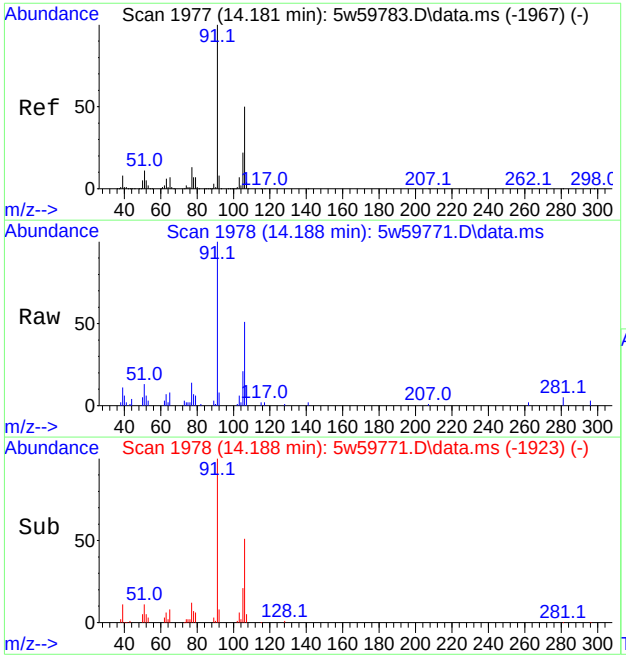


#79
ETHYLBENZENE
Concen: 0.24 PPBV
RT: 14.004 min Scan# 1948
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 48060

Ion	Ratio	Lower	Upper
91	100		
106	28.9	1.3	61.3
77	10.2	0.0	38.6

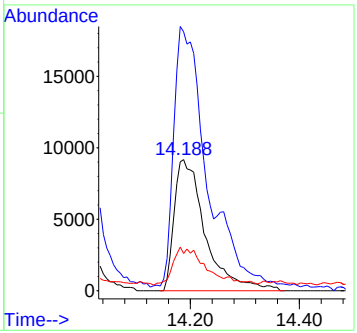


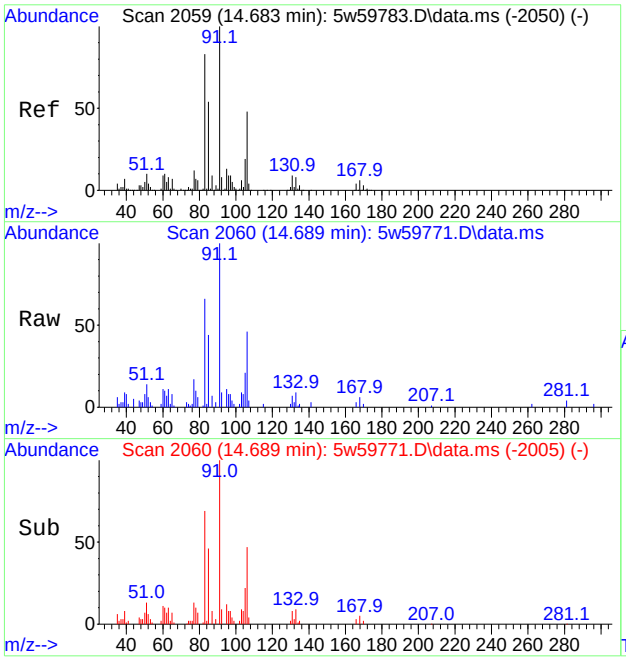


#80
m,p-XYLENE
Concen: 0.45 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 36141

Ion	Ratio	Lower	Upper
106	100		
91	197.2	171.0	231.0
77	28.5	0.0	56.7

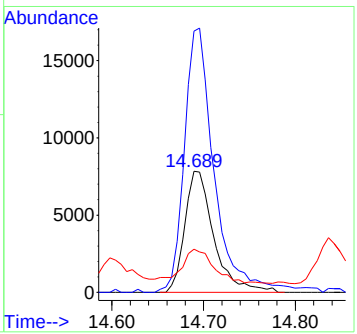


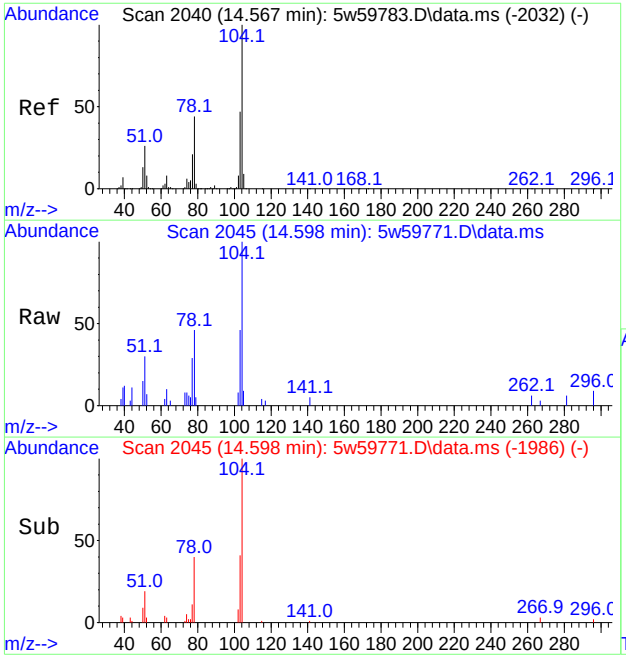


#81
o-XYLENE
Concen: 0.23 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:106 Resp: 17278

Ion	Ratio	Lower	Upper
106	100		
91	226.2	181.6	241.6
77	34.4	0.0	56.6

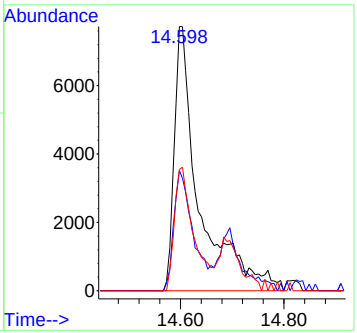


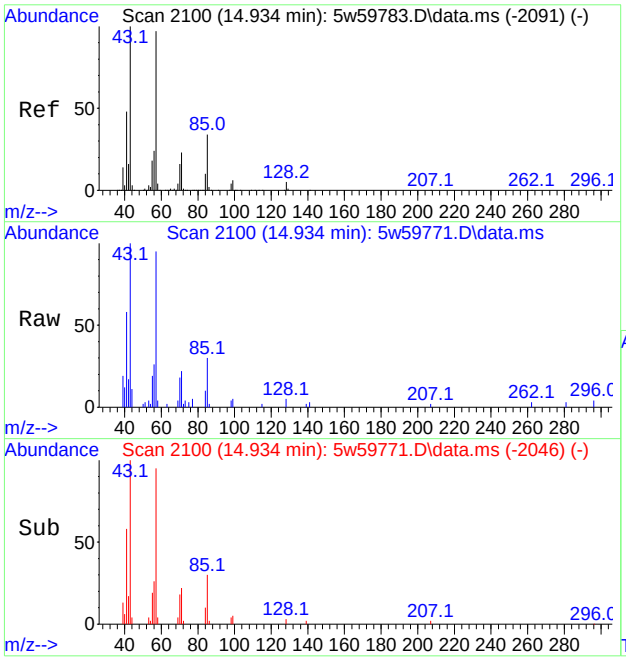


#82
STYRENE
Concen: 0.21 PPBV
RT: 14.598 min Scan# 2045
Delta R.T. 0.031 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:104 Resp: 26105

Ion	Ratio	Lower	Upper
104	100		
78	36.1	13.3	73.3
103	36.3	17.2	77.2

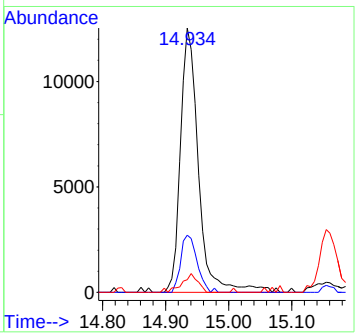


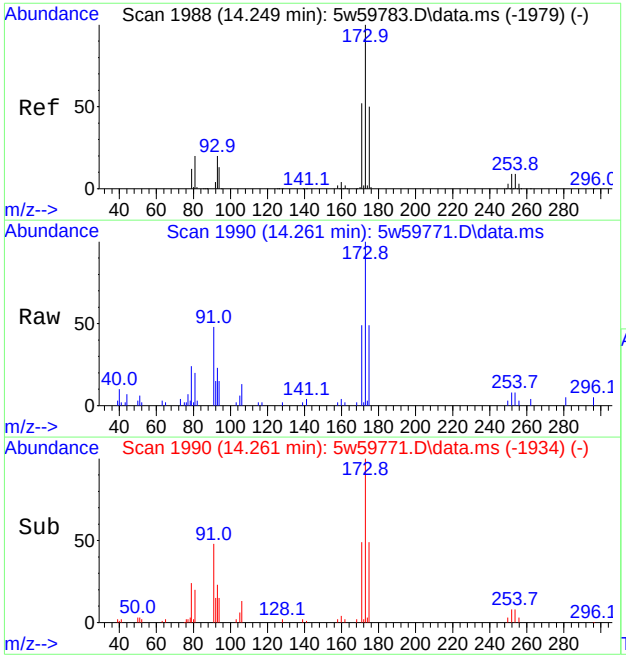


#83
NONANE
Concen: 0.26 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 43 Resp: 25033

Ion	Ratio	Lower	Upper
43	100		
71	19.6	0.0	52.7
128	6.3	0.0	34.7

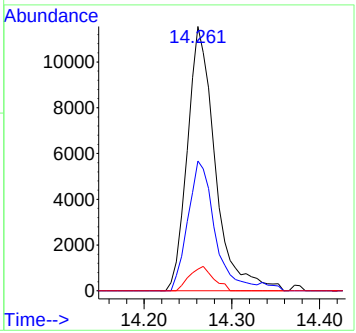


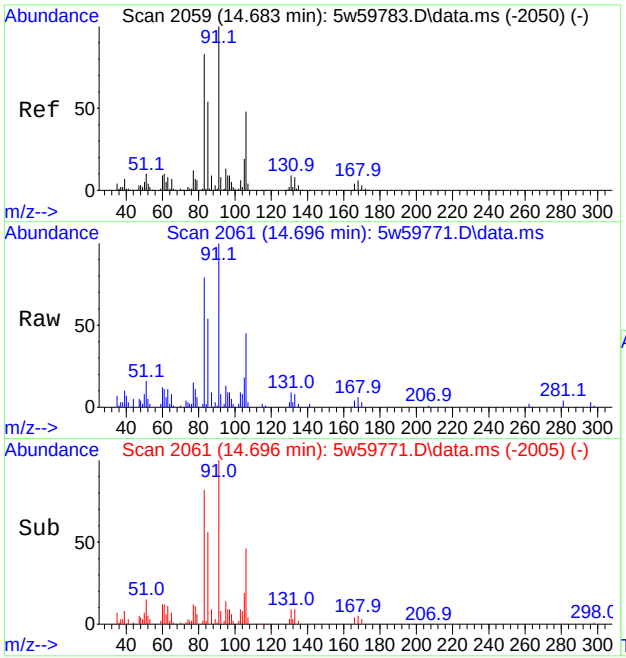


#84
BROMOFORM
Concen: 0.20 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:173 Resp: 25461

Ion	Ratio	Lower	Upper
173	100		
175	49.1	19.6	79.6
254	7.9	0.0	39.0

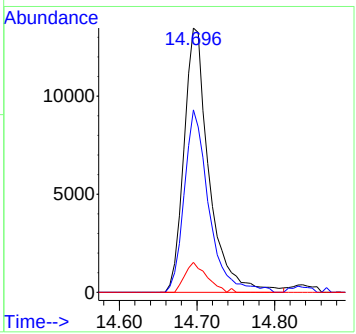


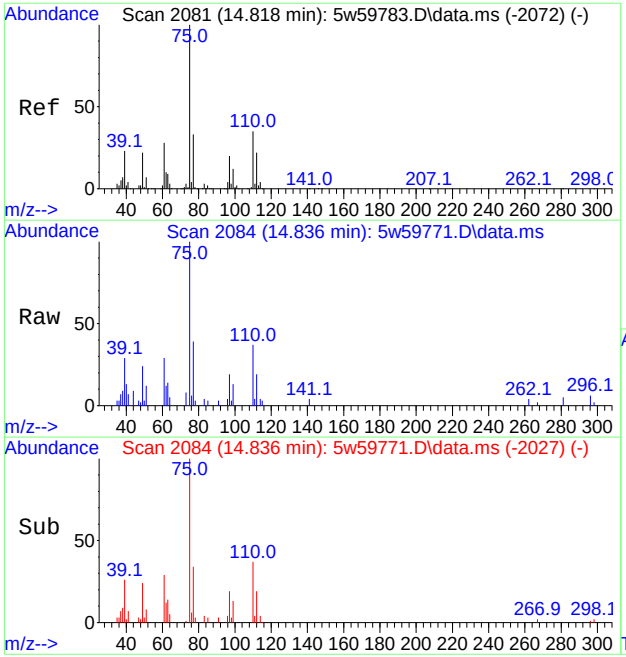


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.23 PPBV
RT: 14.696 min Scan# 2061
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 83 Resp: 30281

Ion	Ratio	Lower	Upper
83	100		
85	67.8	35.2	95.2
131	10.0	0.0	40.3

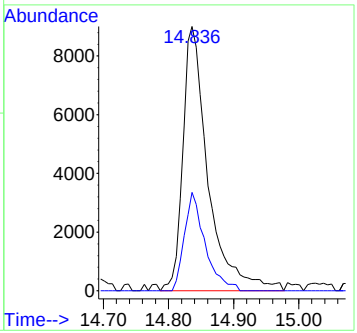


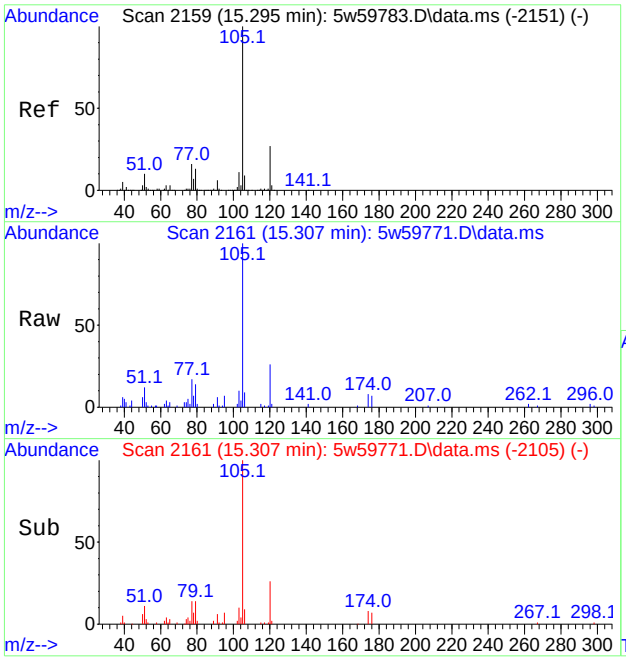


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.24 PPBV
RT: 14.836 min Scan# 2084
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 75 Resp: 24248

Ion	Ratio	Lower	Upper
75	100		
110	30.6	4.4	64.4

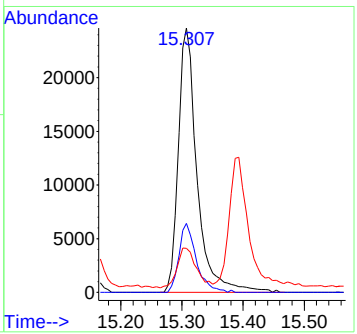




#88
ISOPROPYLBENZENE
Concen: 0.23 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

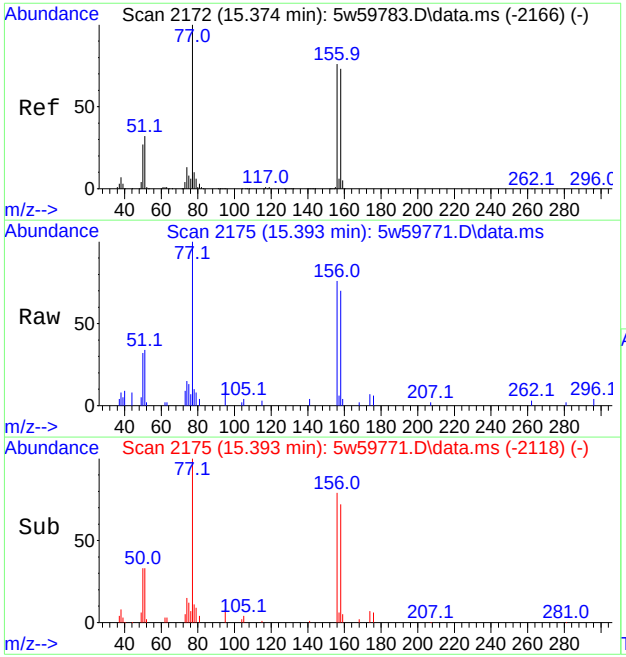
Tgt Ion:105 Resp: 52329

Ion	Ratio	Lower	Upper
105	100		
120	24.2	0.0	56.0
77	15.5	0.0	45.6



7.7.3

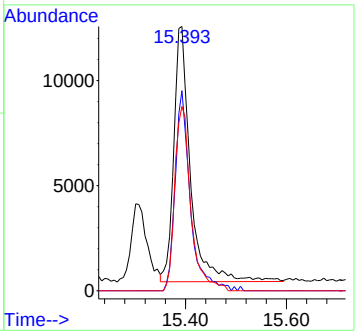
7

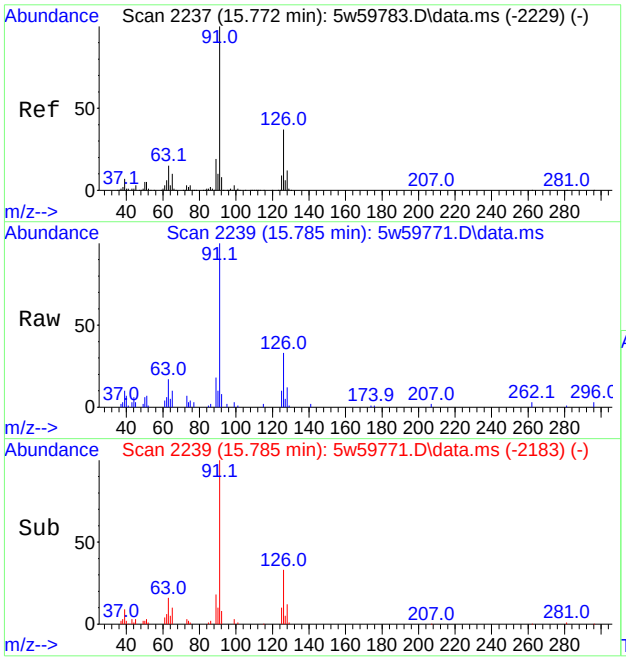


#89
BROMOBENZENE
Concen: 0.24 PPBV
RT: 15.393 min Scan# 2175
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 77 Resp: 27933

Ion	Ratio	Lower	Upper
77	100		
156	70.8	54.9	101.9
158	69.8	53.5	99.3

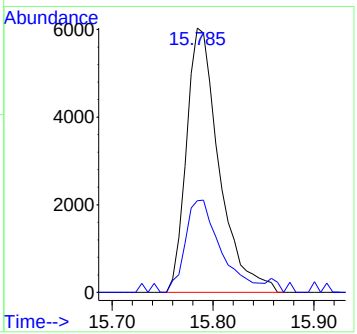


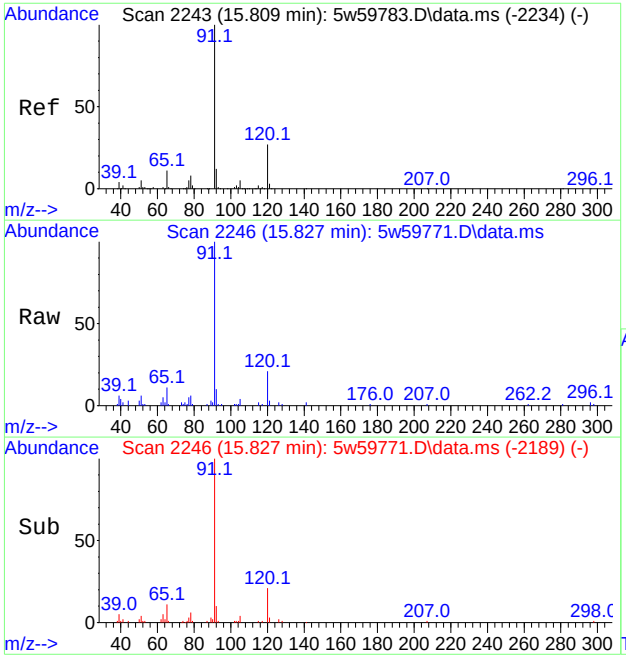


#90
2-CHLOROTOLUENE
Concen: 0.21 PPBV
RT: 15.785 min Scan# 2239
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:126 Resp: 13598

Ion	Ratio	Lower	Upper
126	100		
128	40.4	2.7	62.7

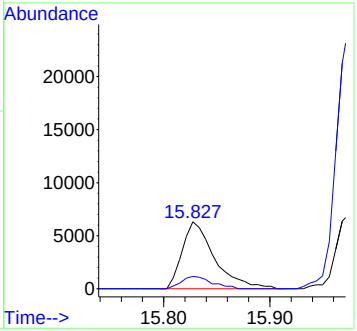


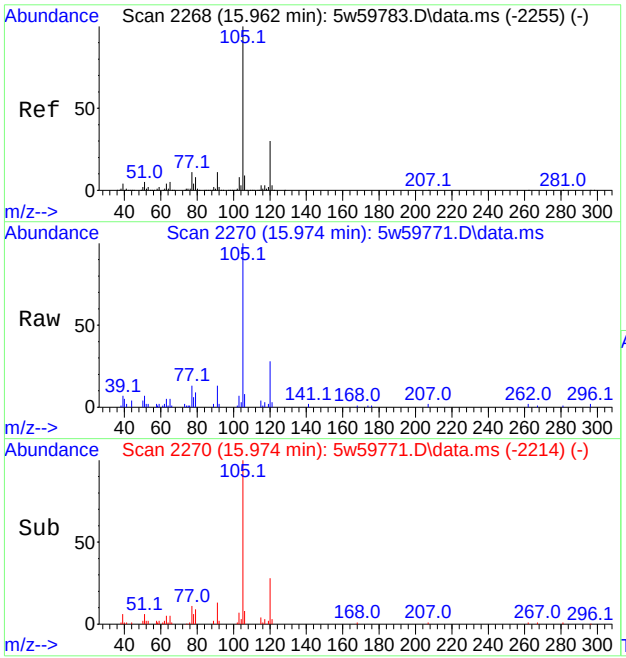


#91
n-PROPYLBENZENE
Concen: 0.21 PPBV
RT: 15.827 min Scan# 2246
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:120 Resp: 13388

Ion	Ratio	Lower	Upper
120	100		
105	17.4	0.0	47.0

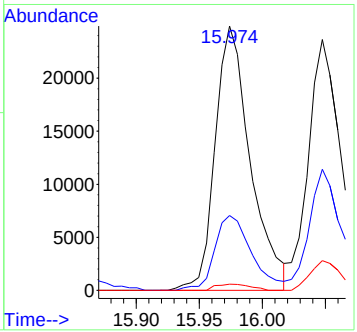


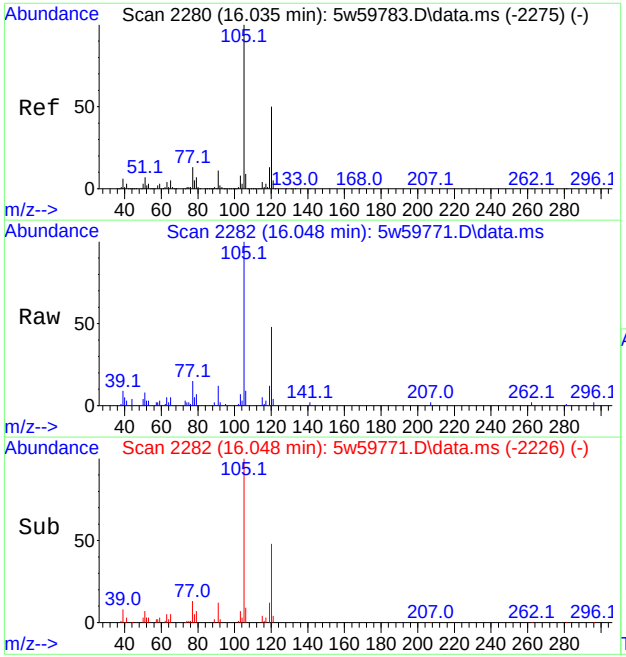


#92
4-ETHYLTOLUENE
Concen: 0.22 PPBV
RT: 15.974 min Scan# 2270
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48336

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	59.9
119	2.3	0.0	32.3

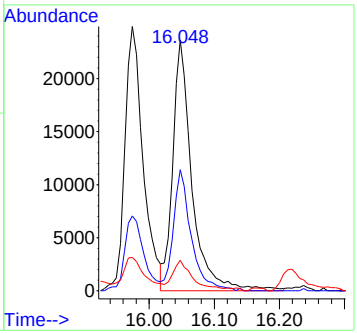


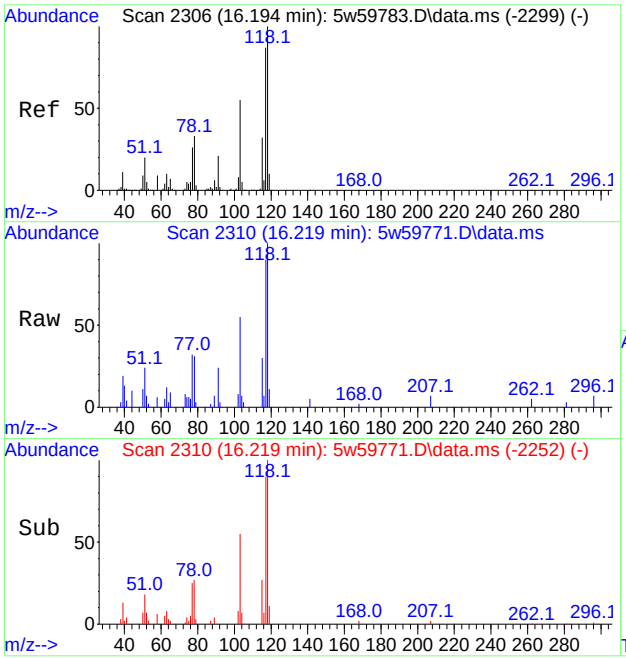


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.26 PPBV
RT: 16.048 min Scan# 2282
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 48446

Ion	Ratio	Lower	Upper
105	100		
120	45.0	19.4	79.4
91	13.3	0.0	40.8

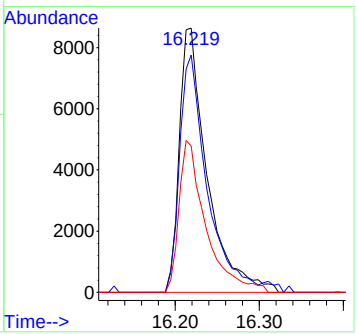


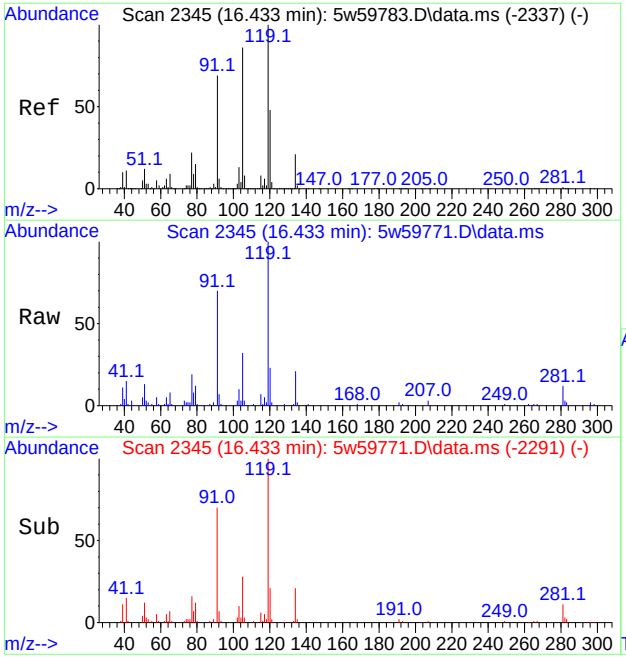


#94
ALPHA-METHYLSTYRENE
Concen: 0.19 PPBV
RT: 16.219 min Scan# 2310
Delta R.T. 0.025 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:118 Resp: 19855

Ion	Ratio	Lower	Upper
118	100		
117	90.9	60.9	113.1
103	55.4	38.6	71.8

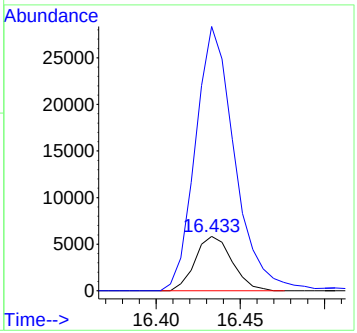


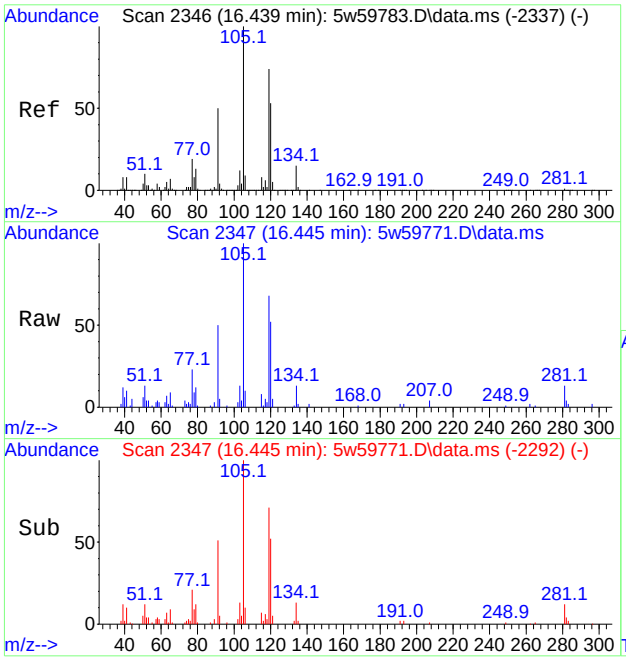


#95
tert-BUTYLBENZENE
Concen: 0.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 8909

Ion	Ratio	Lower	Upper
134	100		
119	524.3	459.3	519.3#

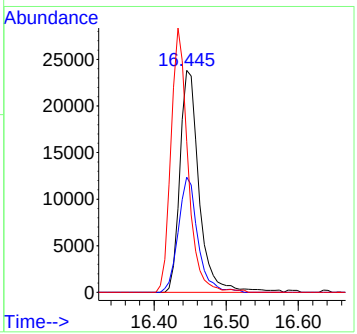


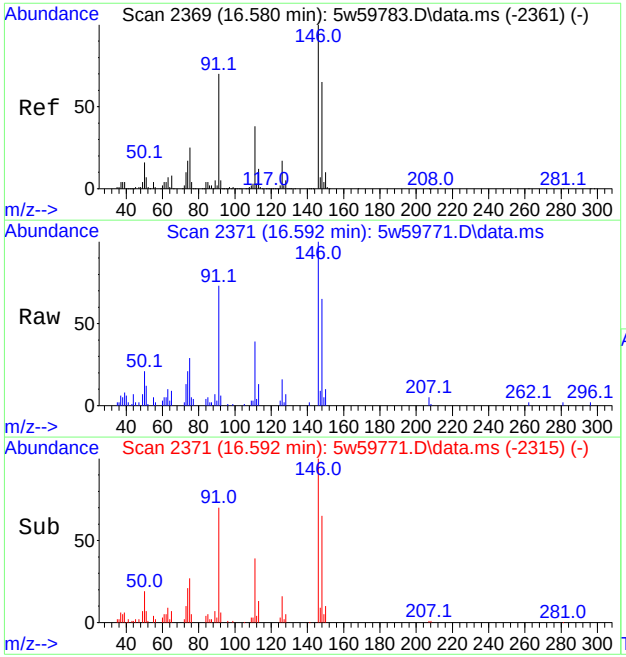


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 44191

Ion	Ratio	Lower	Upper
105	100		
120	52.7	25.7	85.7
119	105.7	75.7	135.7

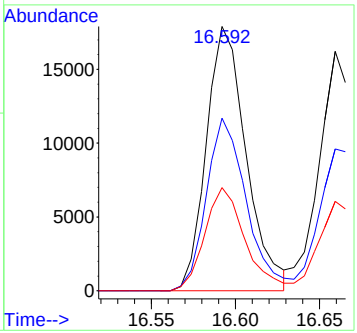


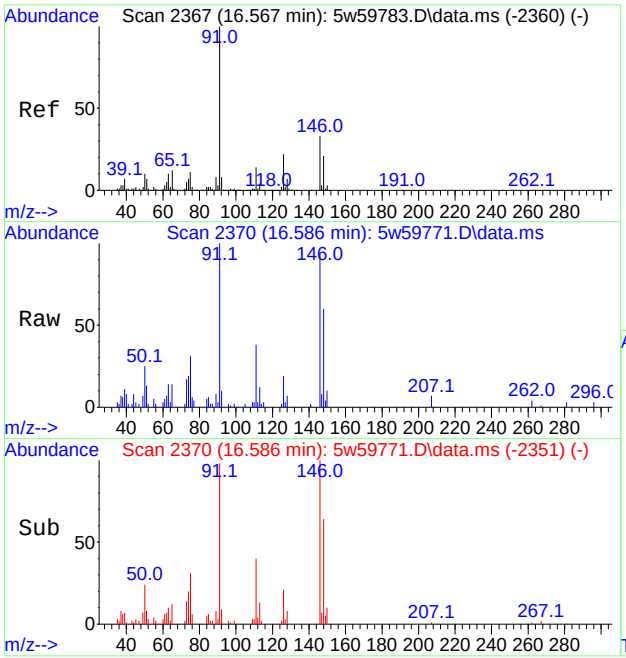


#97
m-DICHLOROBENZENE
Concen: 0.20 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 29601

Ion	Ratio	Lower	Upper
146	100		
148	66.0	34.8	94.8
111	39.3	8.2	68.2

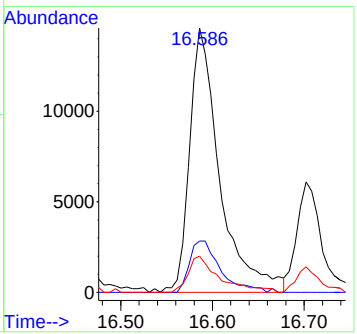


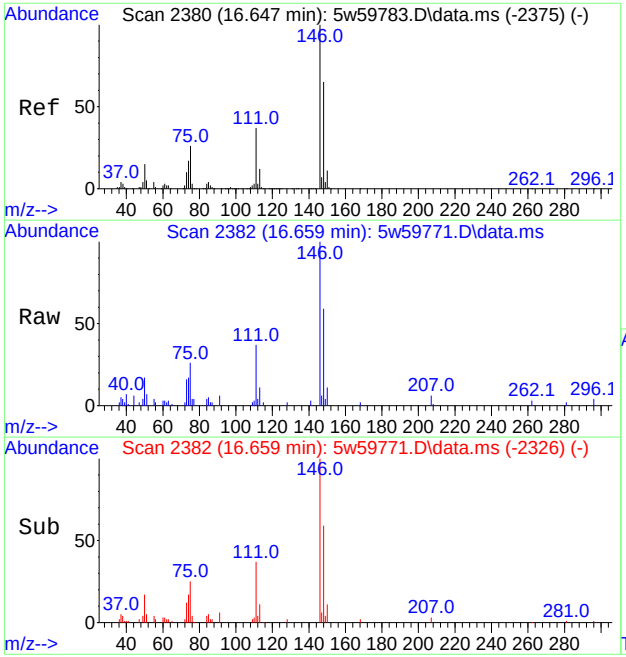


#98
BENZYL CHLORIDE
Concen: 0.19 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.019 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion: 91 Resp: 33418

Ion	Ratio	Lower	Upper
91	100		
126	20.0	0.0	51.7
65	14.3	0.0	42.2

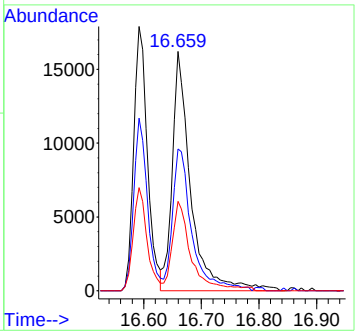


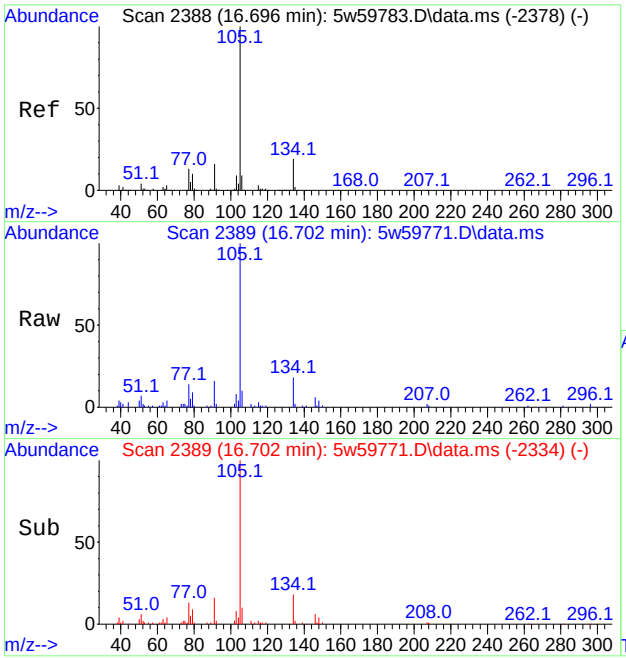


#99
p-DICHLOROBENZENE
Concen: 0.24 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 36208

Ion	Ratio	Lower	Upper
146	100		
148	61.8	34.6	94.6
111	38.4	6.7	66.7

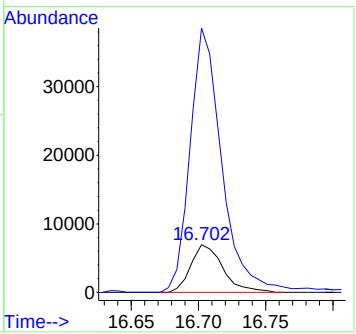




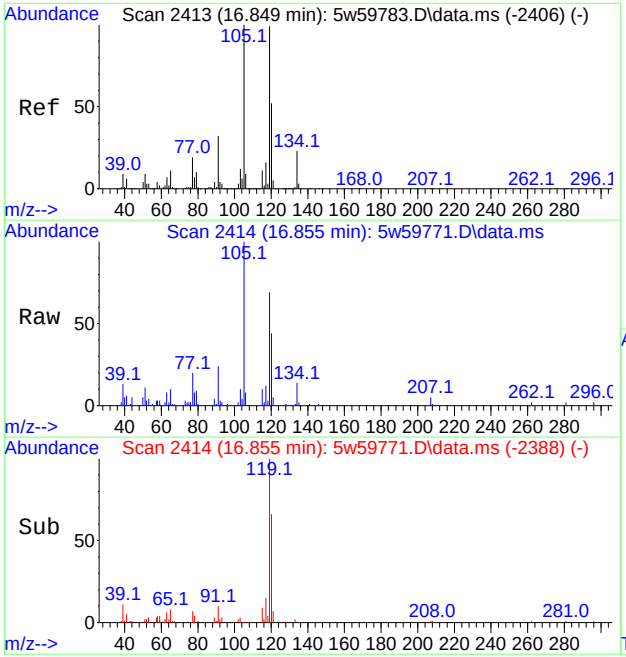
#100
sec-BUTYLBENZENE
Concen: 0.23 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 11583

Ion	Ratio	Lower	Upper
134	100		
105	557.6	502.5	562.5



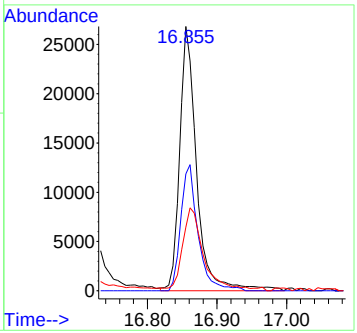
7.7.3

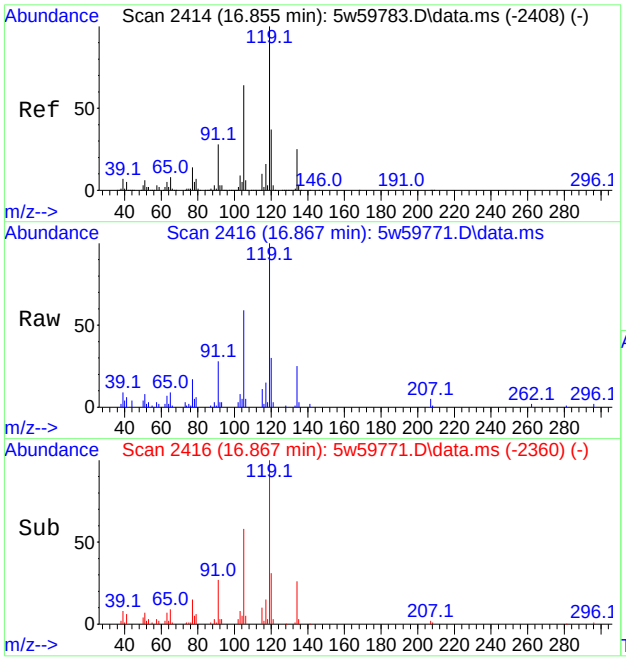


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:105 Resp: 45724

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.5	83.5
91	39.5	7.4	67.4

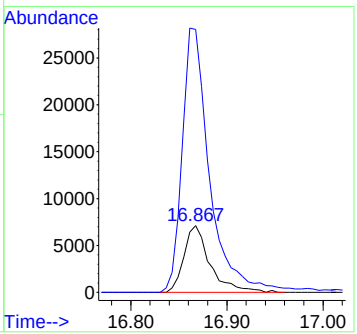




#102
p-ISOPROPYLTOLUENE
Concen: 0.23 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

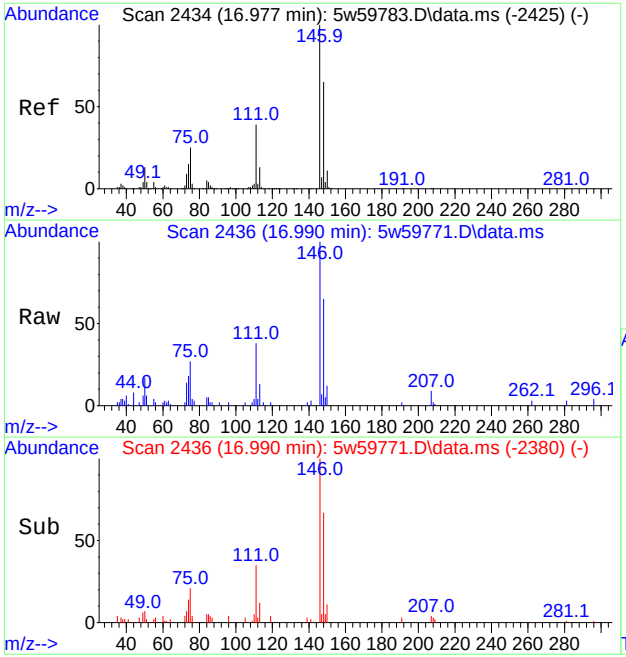
Tgt Ion:134 Resp: 13423

Ion	Ratio	Lower	Upper
134	100		
119	423.6	377.7	437.7



7.7.3

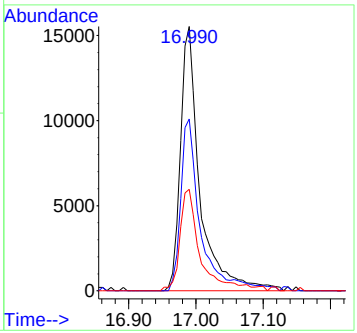
7

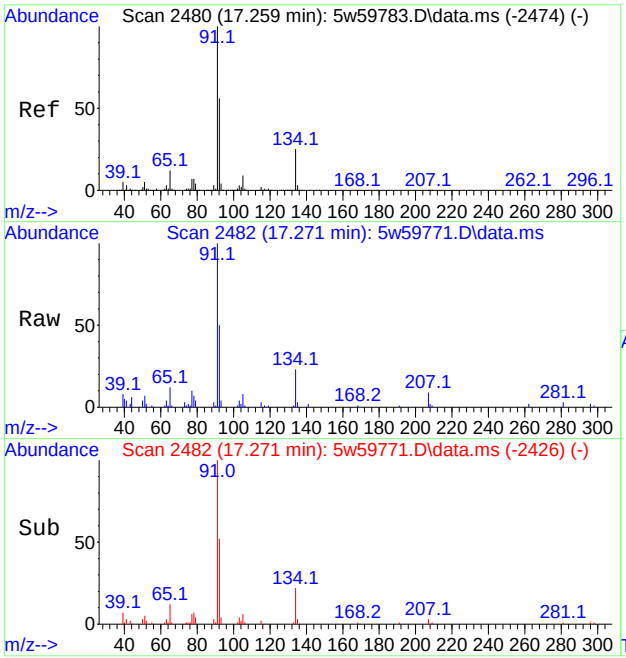


#103
o-DICHLOROBENZENE
Concen: 0.22 PPBV
RT: 16.990 min Scan# 2436
Delta R.T. 0.013 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:146 Resp: 31360

Ion	Ratio	Lower	Upper
146	100		
148	65.8	34.3	94.3
111	40.0	9.2	69.2

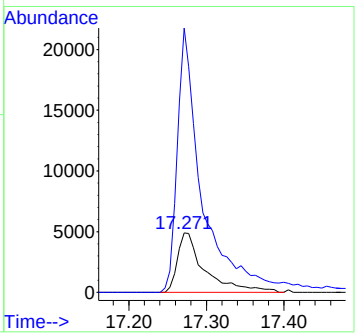


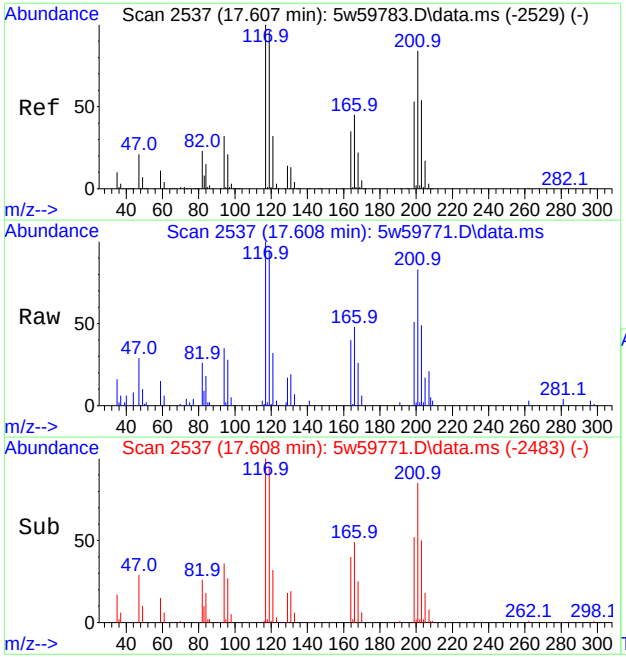


#104
n-BUTYLBENZENE
Concen: 0.20 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:134 Resp: 12074

Ion	Ratio	Lower	Upper
134	100		
91	432.2	363.1	423.1#

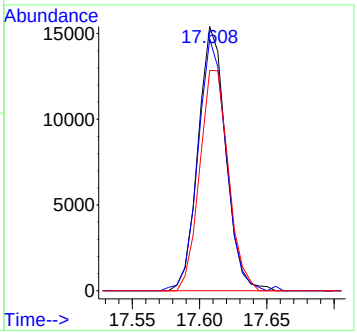


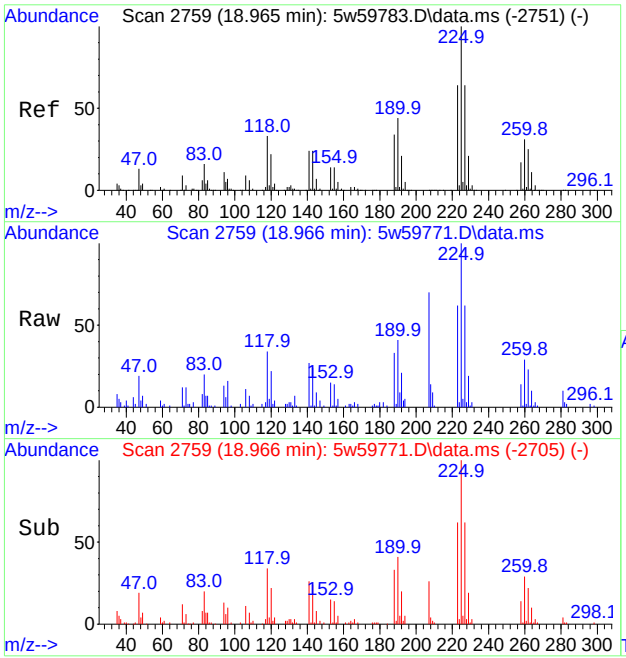


#105
HEXACHLOROETHANE
Concen: 0.23 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:117 Resp: 22122

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.2	124.8
201	86.3	61.1	113.5

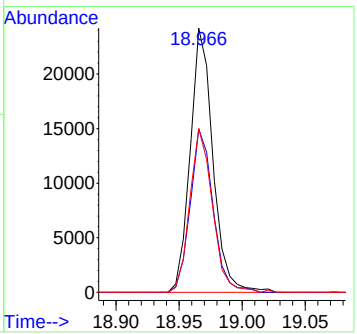


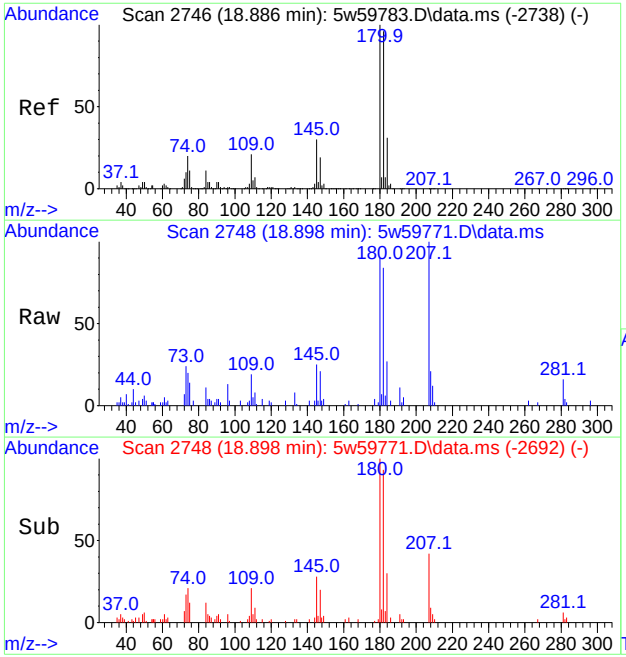


#106
HEXACHLOROBUTADIENE
Concen: 0.23 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:225 Resp: 30270

Ion	Ratio	Lower	Upper
225	100		
227	62.2	34.2	94.2
223	62.0	33.3	93.3

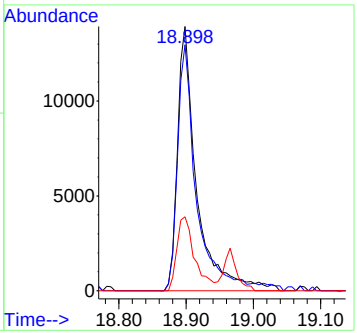


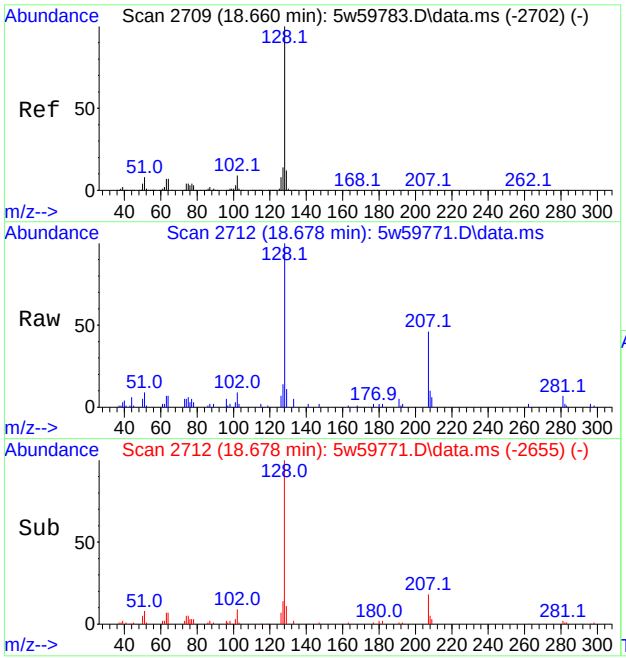


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.21 PPBV
RT: 18.898 min Scan# 2748
Delta R.T. 0.012 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:180 Resp: 27720

Ion	Ratio	Lower	Upper
180	100		
182	93.4	65.4	125.4
145	26.0	0.0	59.4

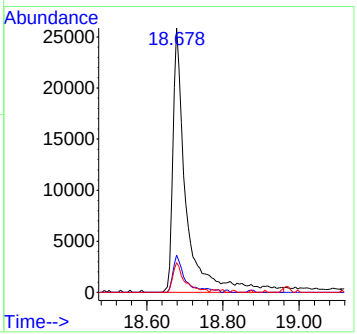


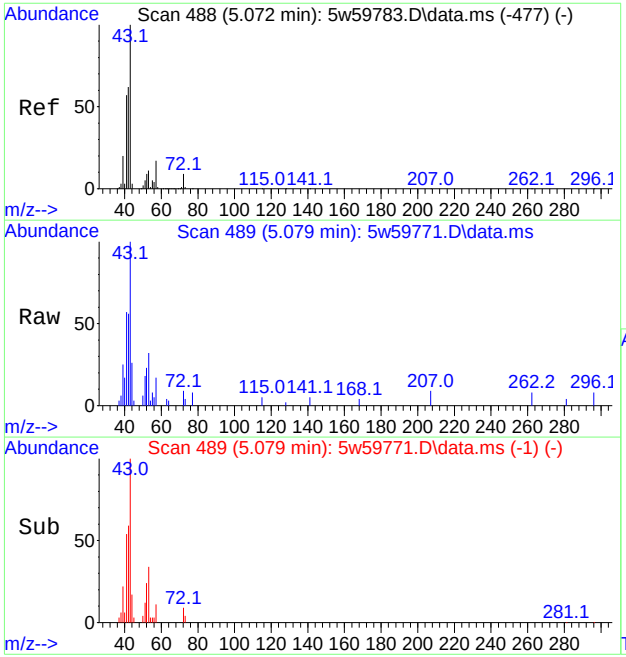


#108
NAPHTHALENE
Concen: 0.22 PPBV
RT: 18.678 min Scan# 2712
Delta R.T. 0.018 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:128 Resp: 62904

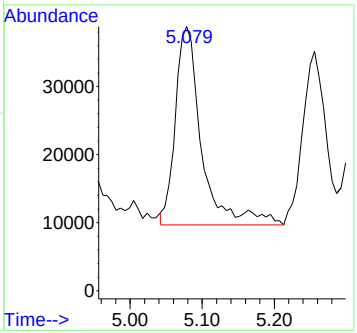
Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	43.3
129	9.9	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 0.25 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.007 min
Lab File: 5w59771.D
Acq: 6 Nov 2025 11:50 pm

Tgt Ion:TIC Resp: 73523



7.7.3

7

Manual Integration Approval Summary

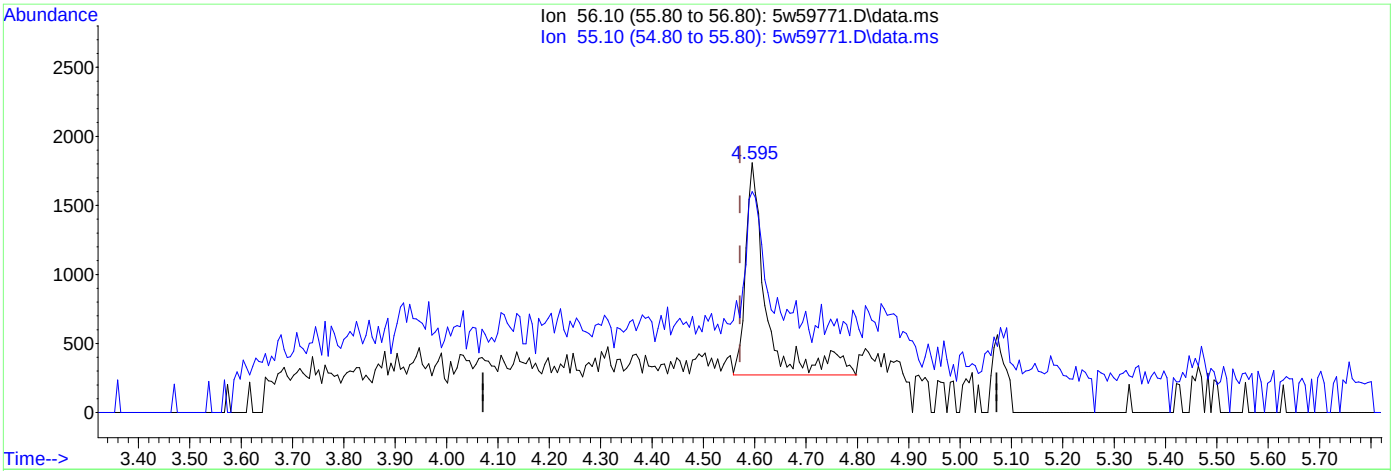
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59771.D **Analyst approved:** 11/10/25 12:33 Benjamin Kim
Injection Time: 11/06/25 23:50 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

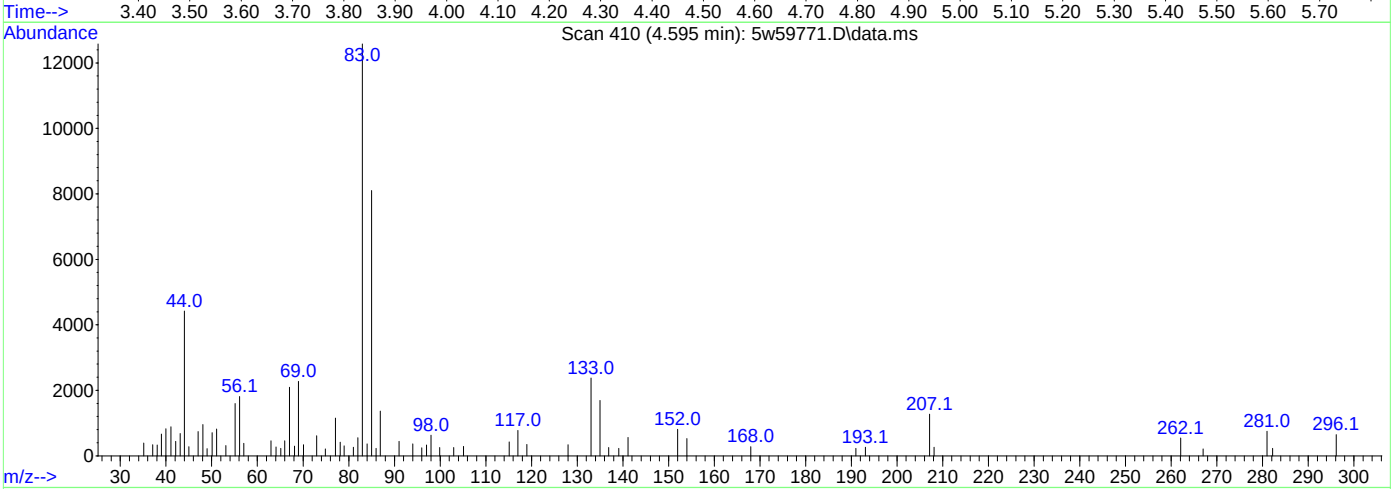
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.60	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Methyl Acrylate	96-33-3		7.49	Missed peak
Ethyl Acetate	141-78-6		7.50	Poor instrument integration
Ethyl Acrylate	140-88-5		9.80	Missed peak
1,3-Dichloropropane	142-28-9		11.78	Poor instrument integration
2-Hexanone	591-78-6		12.17	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.29PPBV

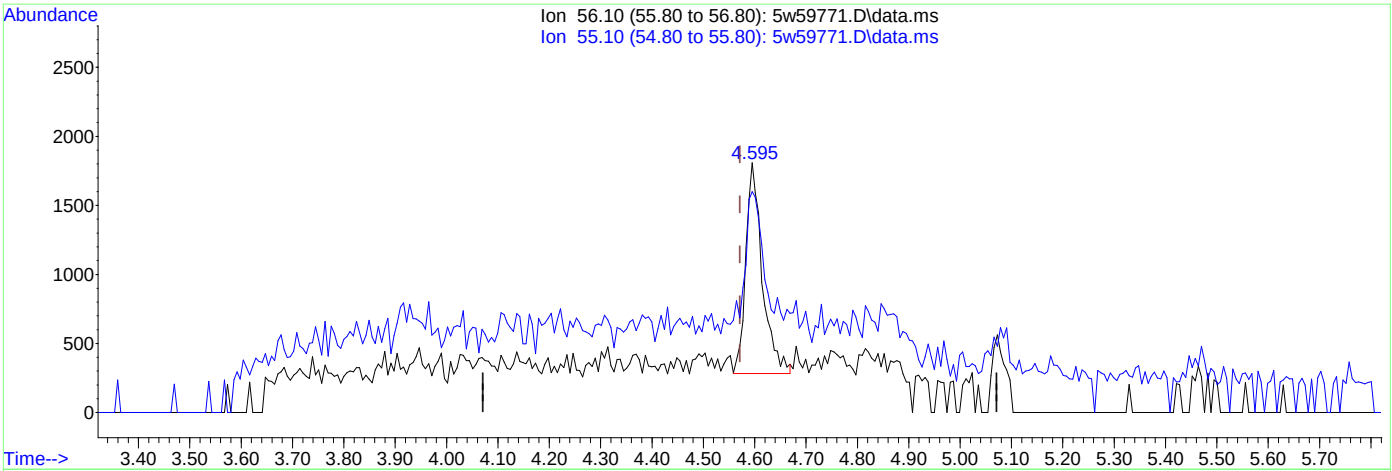
response 4217

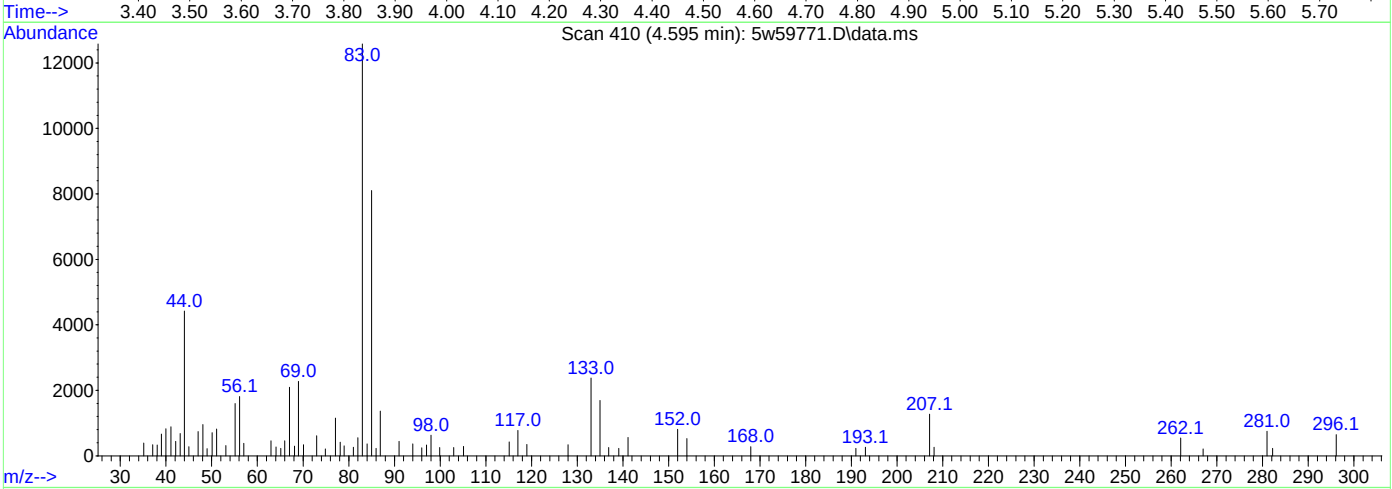
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	80.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(18) ACROLEIN

4.595min (+0.024) 0.24PPBV m

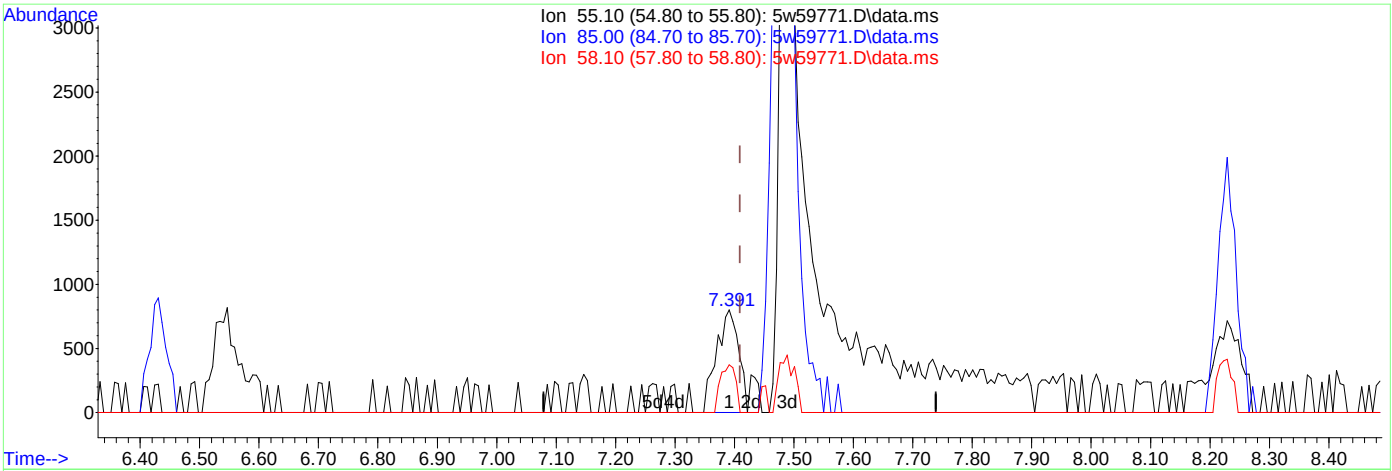
response 3414

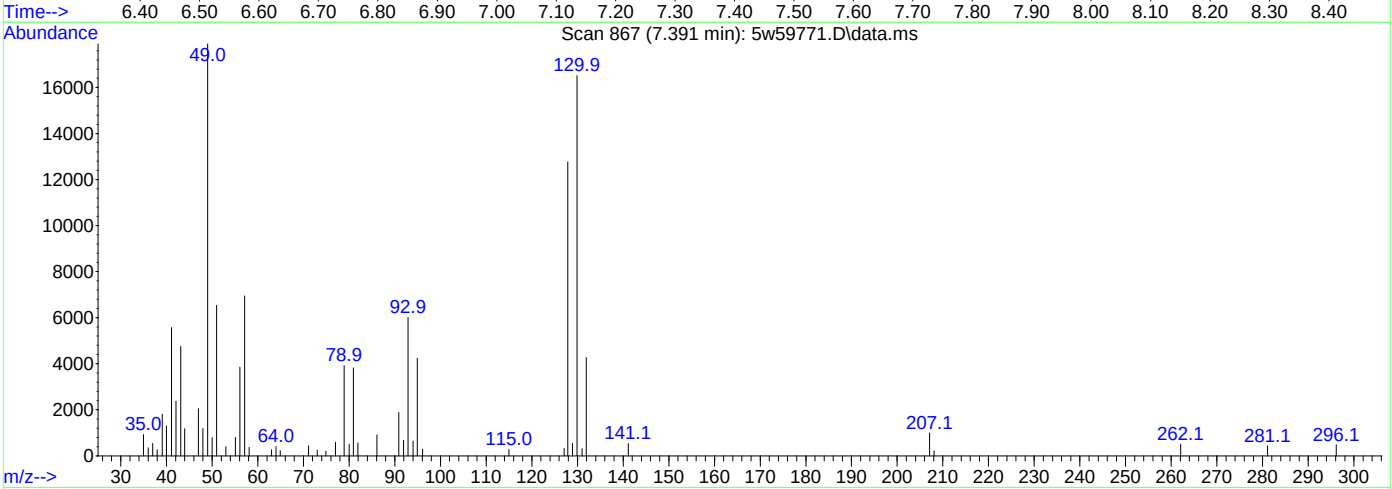
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	99.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.391min (-0.018) 0.03PPBV

response 2074

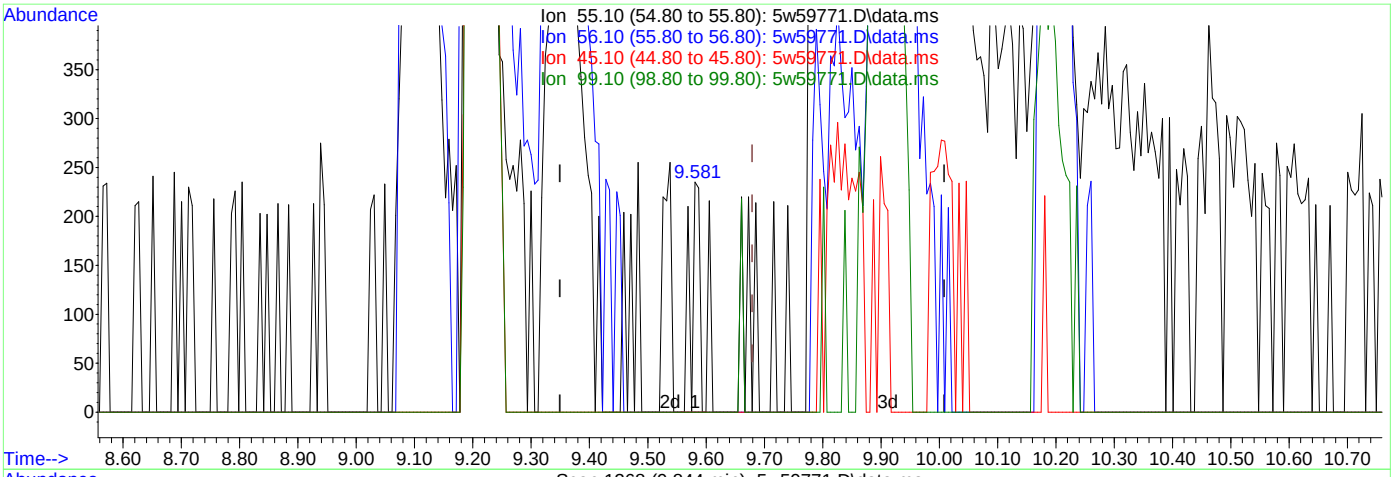
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	31.97#
0.00	0.00	0.00

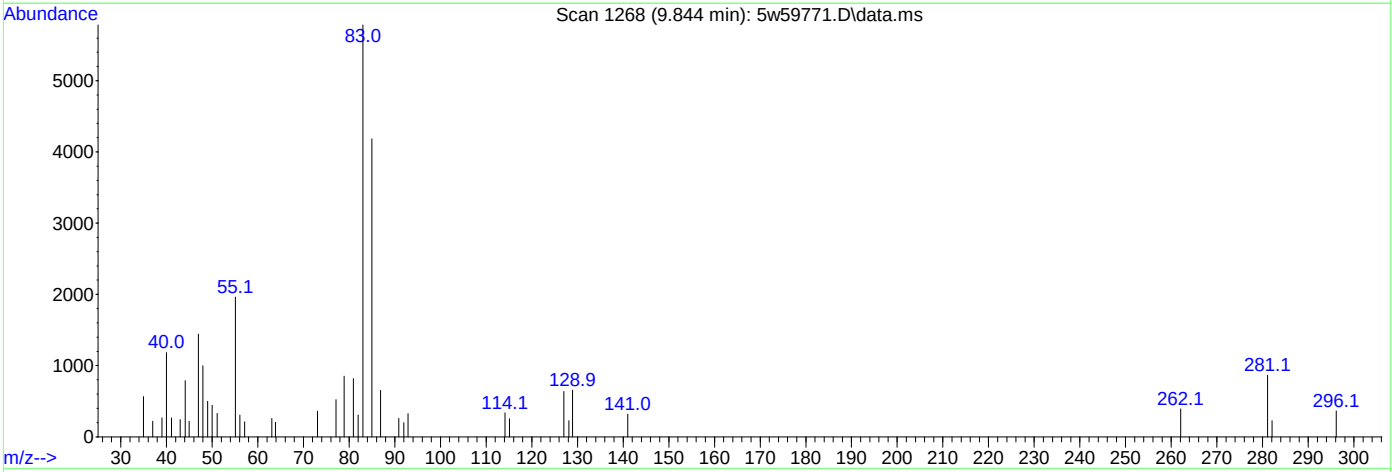
5W59771.D edits: METHYL ACRYLATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:07:33 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.581min (-0.098) 0.00PPBV

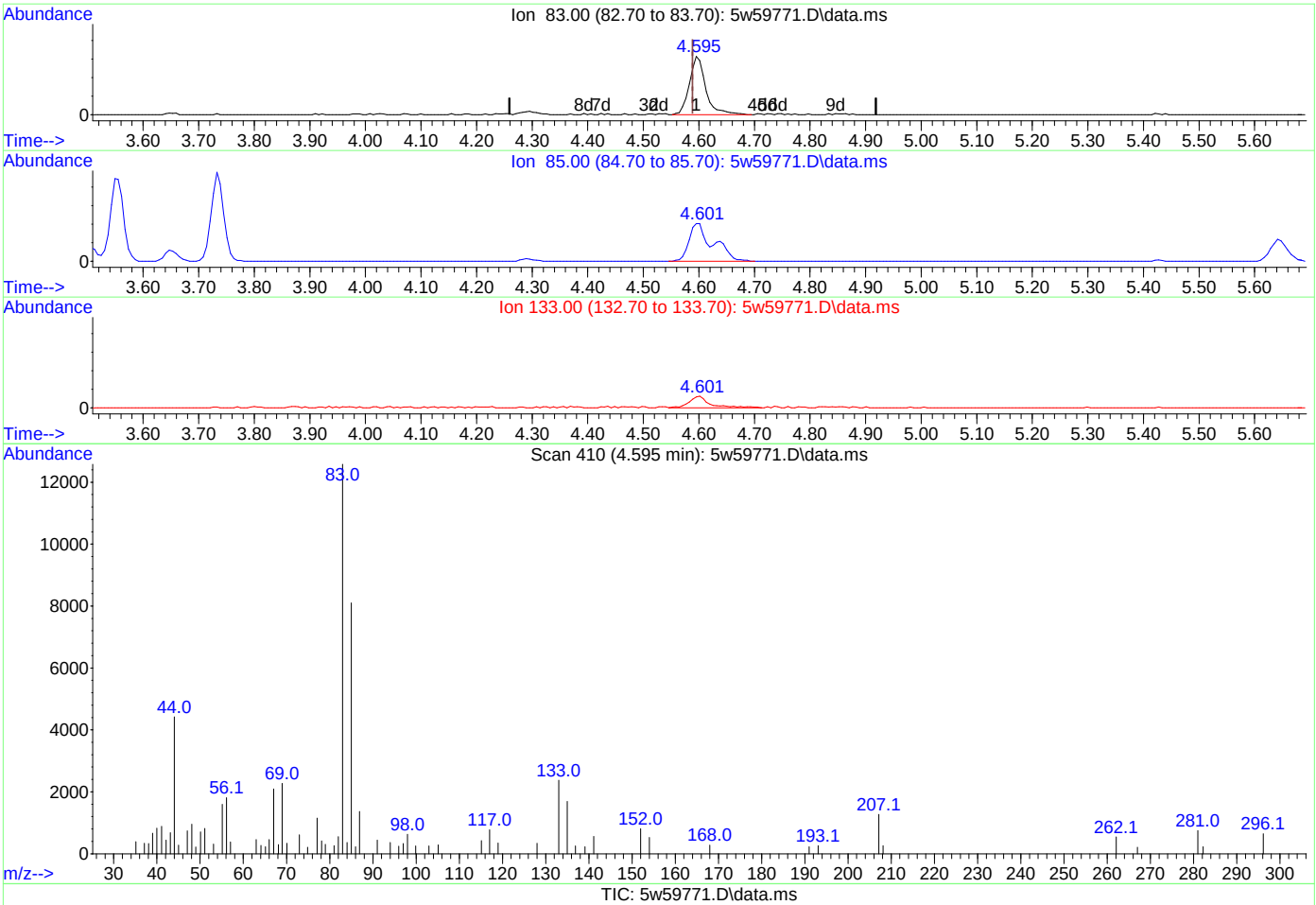
response 247

Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV

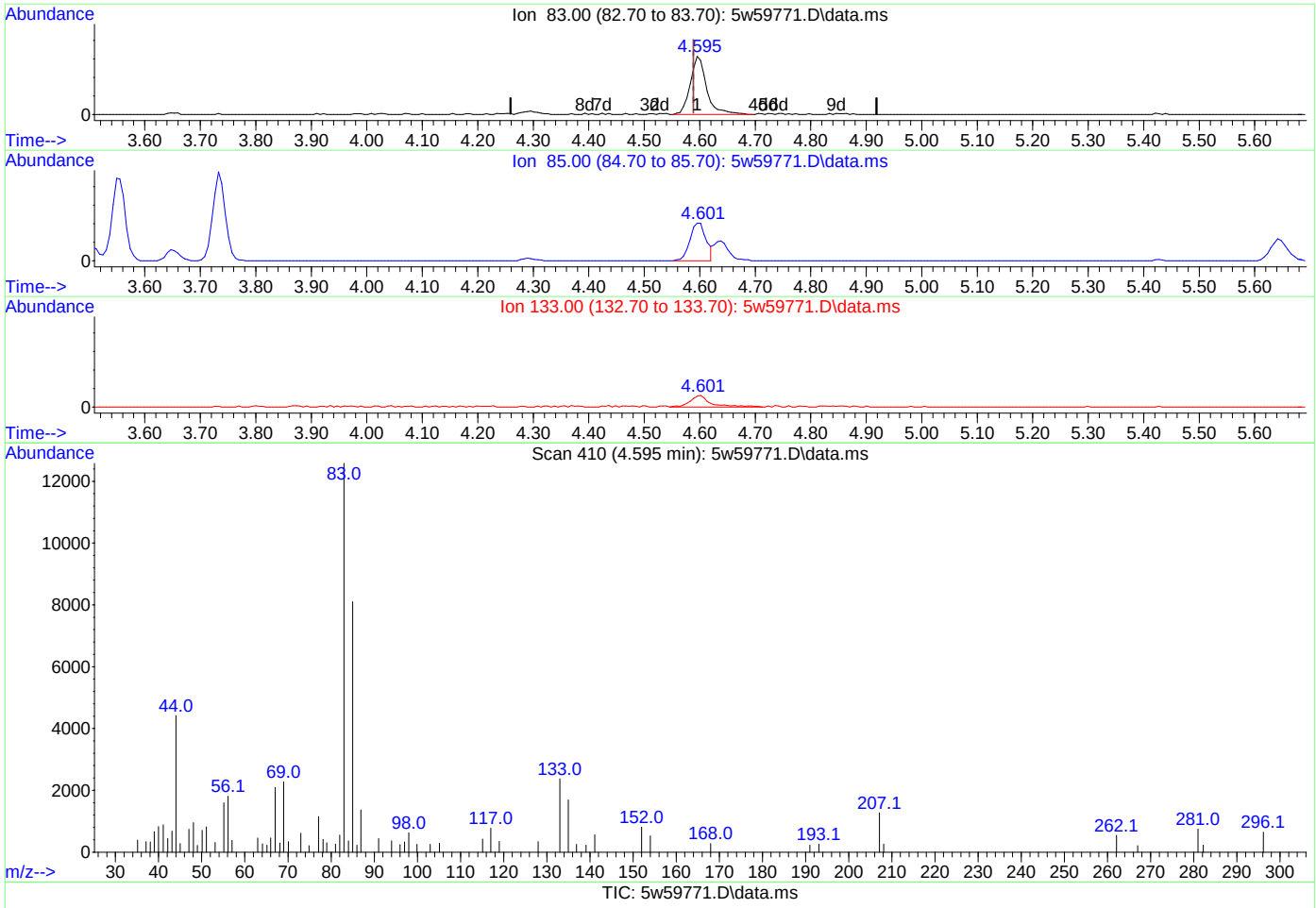
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.04#
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(19) FREON 123

4.595min (+0.006) 0.24PPBV m

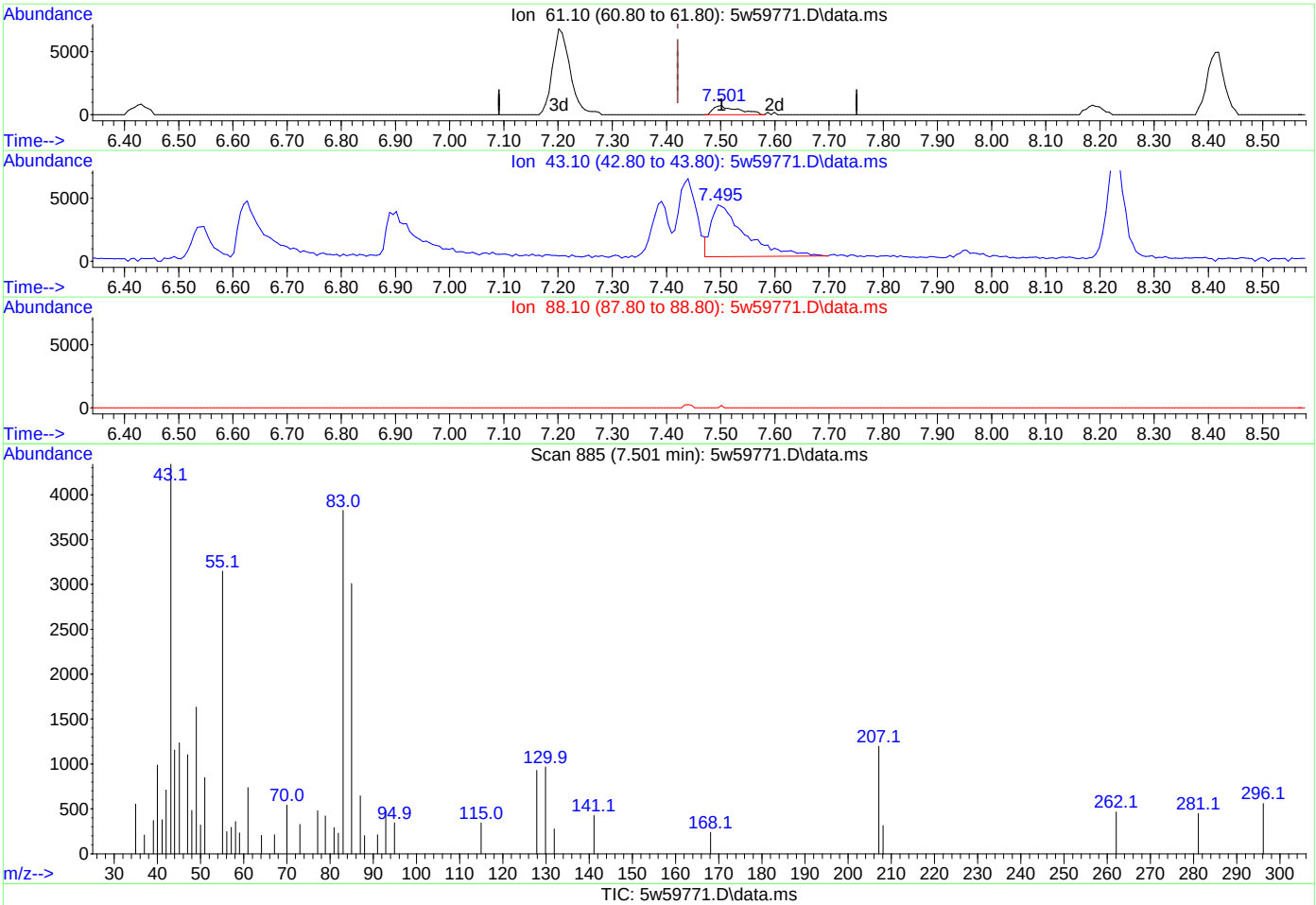
response 25775

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	64.29
133.00	20.70	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV

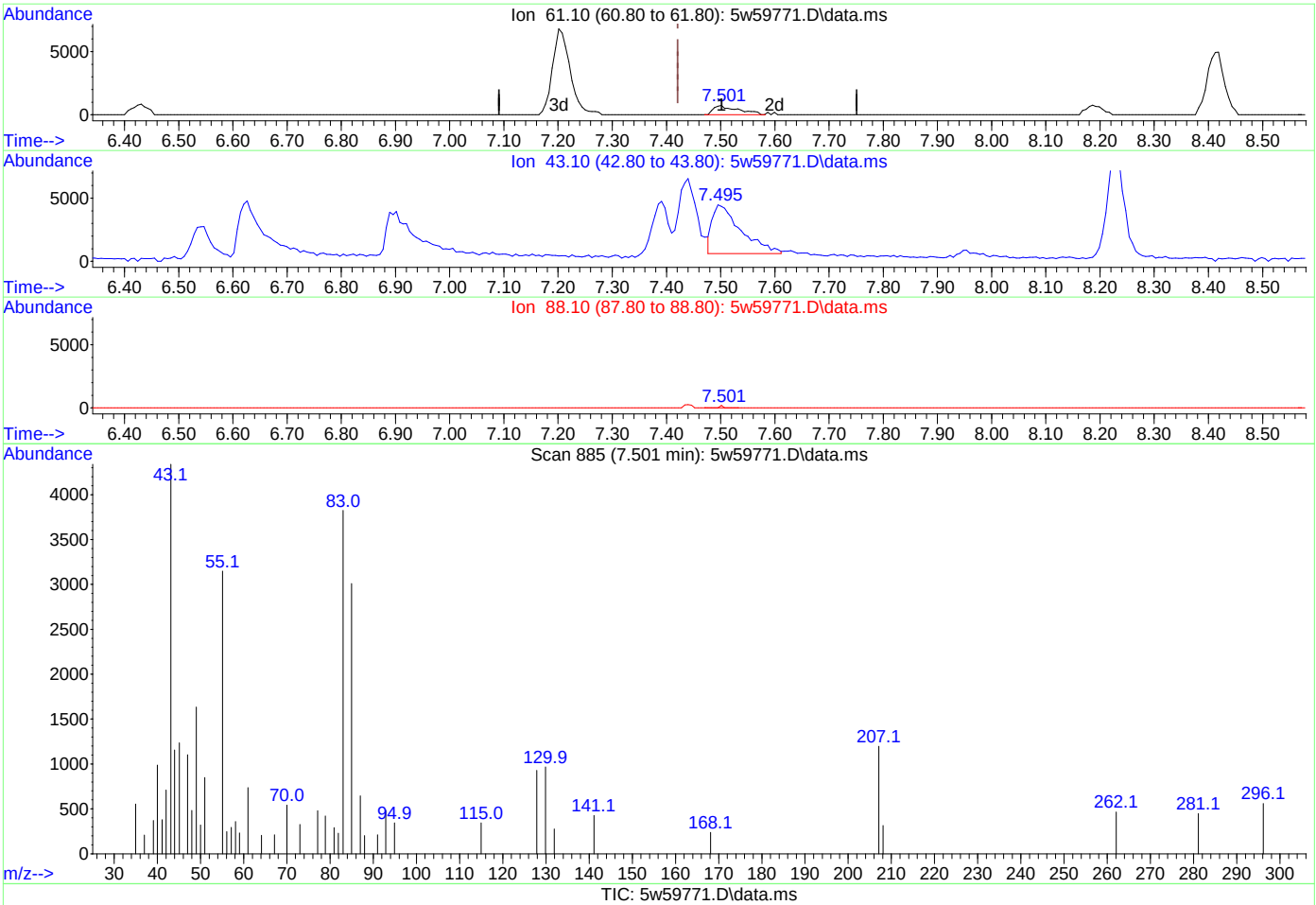
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	764.40#
88.10	34.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(44) ETHYL ACETATE

7.501min (+0.080) 0.15PPBV m

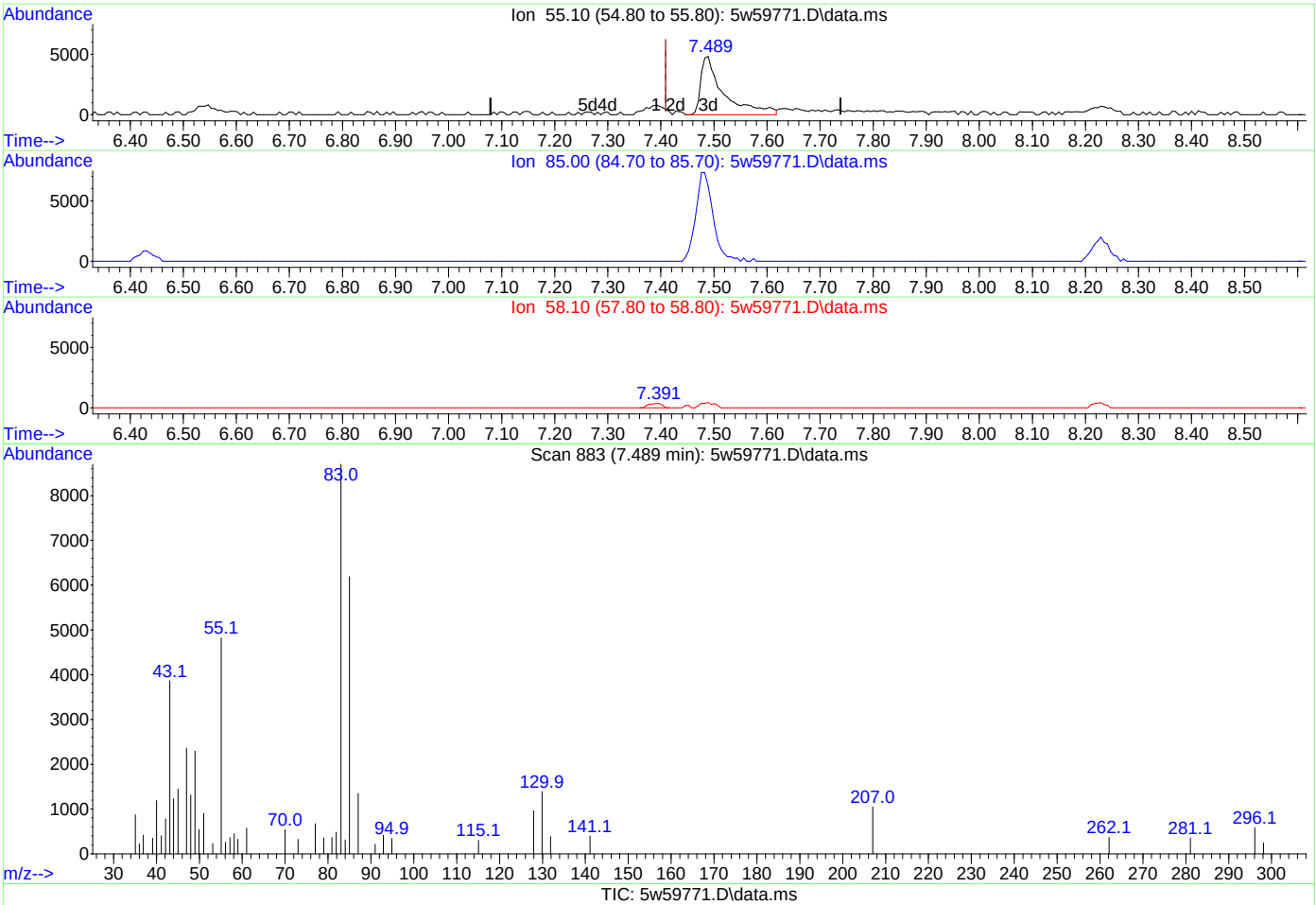
response 2309

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	613.12
88.10	34.50	3.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(45) METHYL ACRYLATE

7.489min (+0.080) 0.17PPBV m

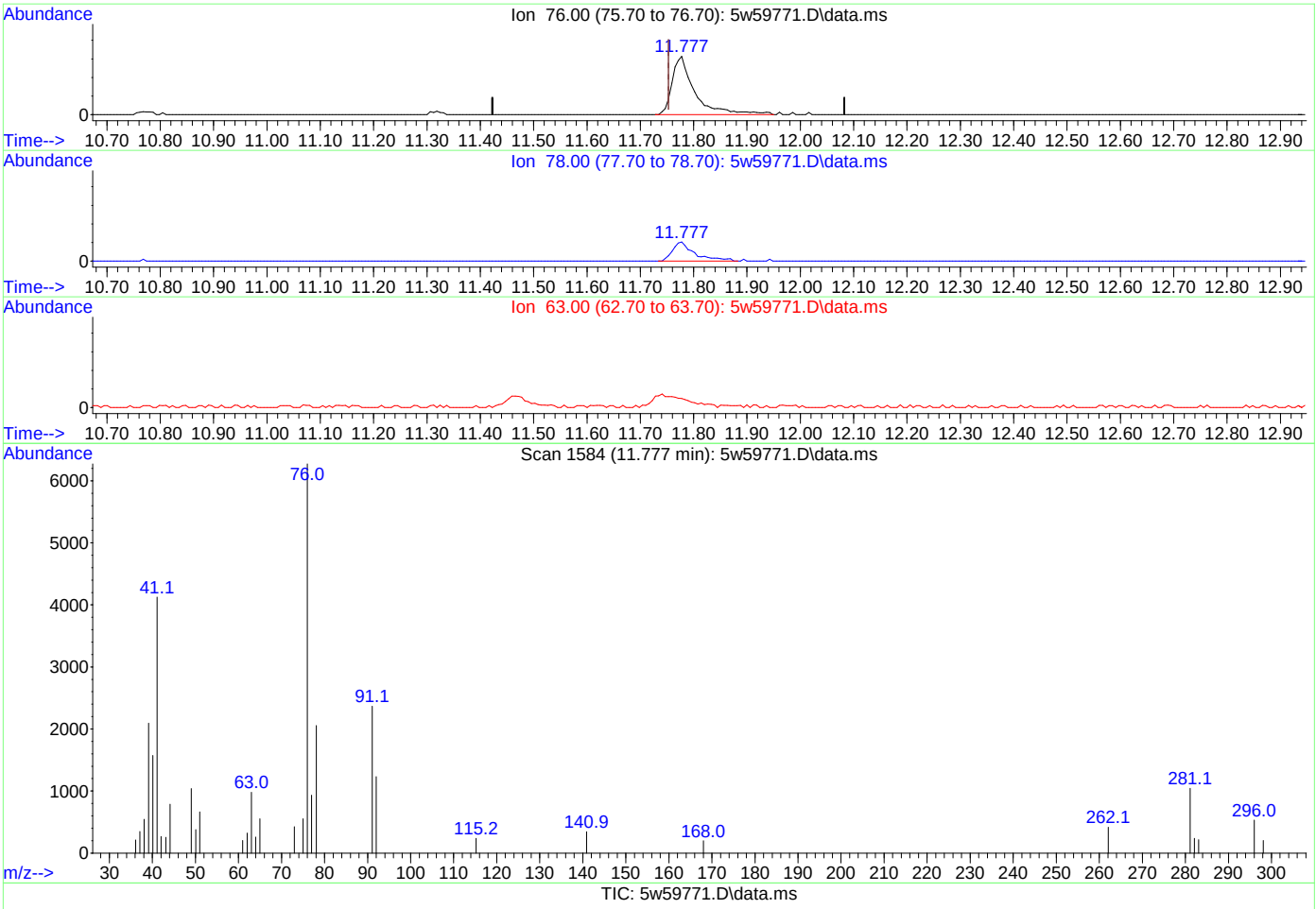
response 14366

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	4.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV

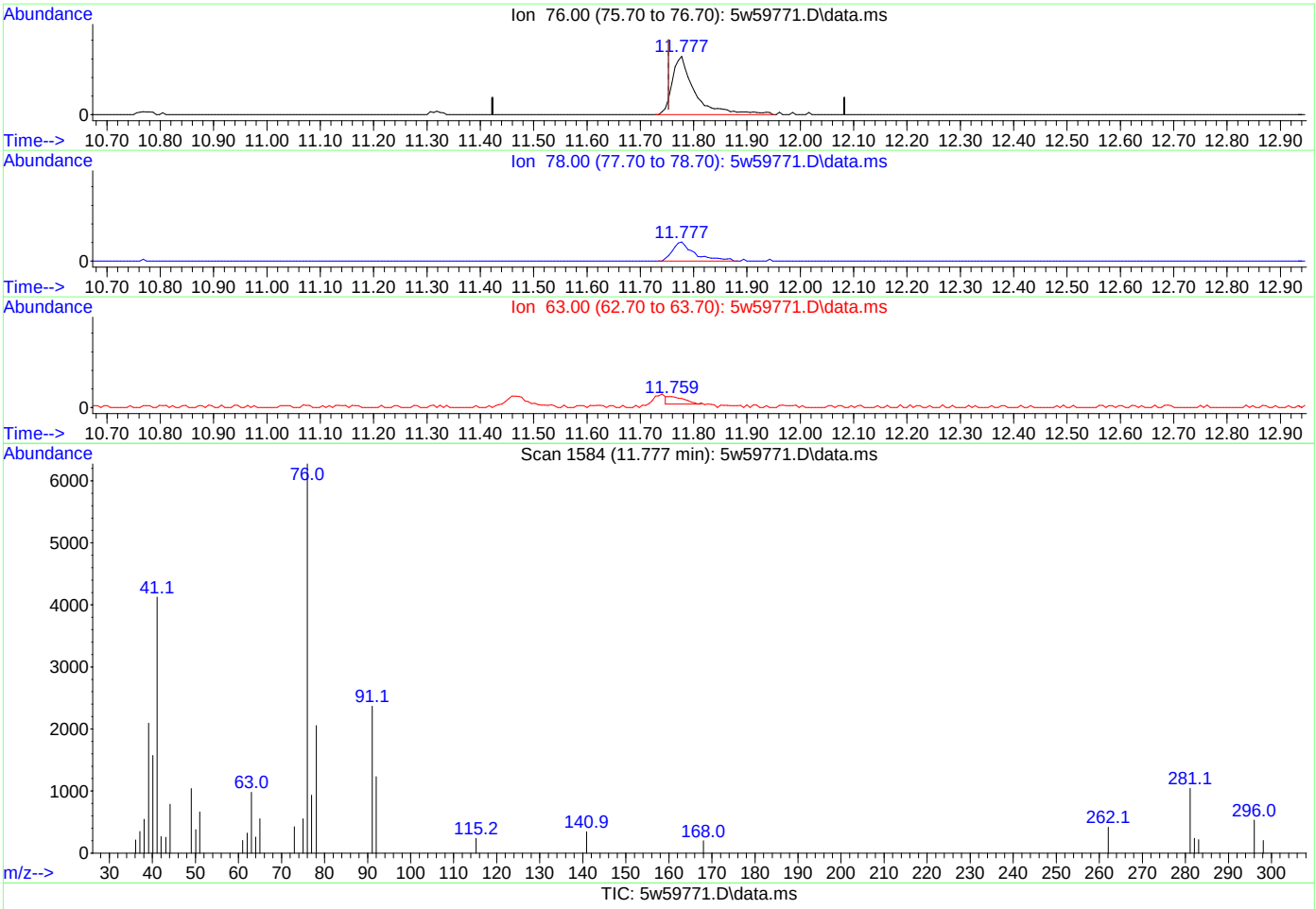
response 18562

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:10:27 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration



TIC: 5w59771.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.777min (+0.024) 0.21PPBV m

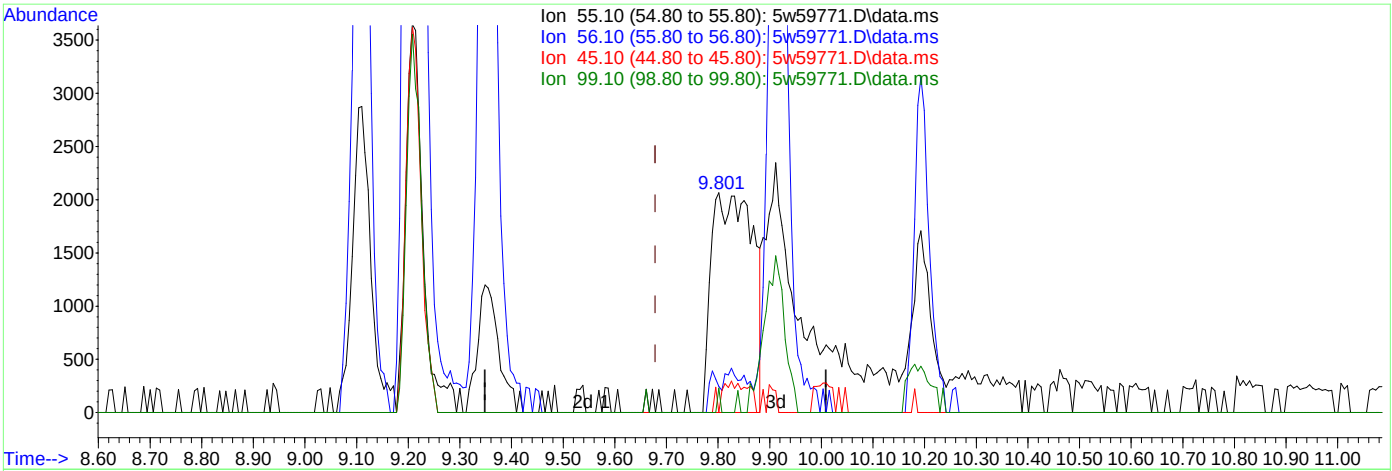
response 18562

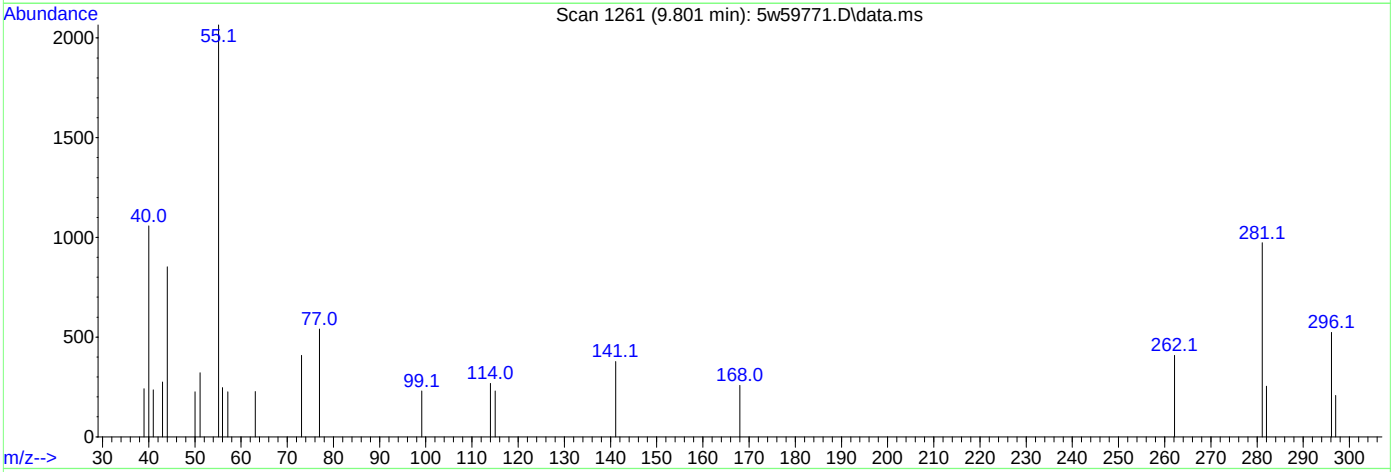
Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.22
63.00	10.10	9.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 13:17:39 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(58) ETHYL ACRYLATE

9.801min (+0.122) 0.10PPBV m

response 11494

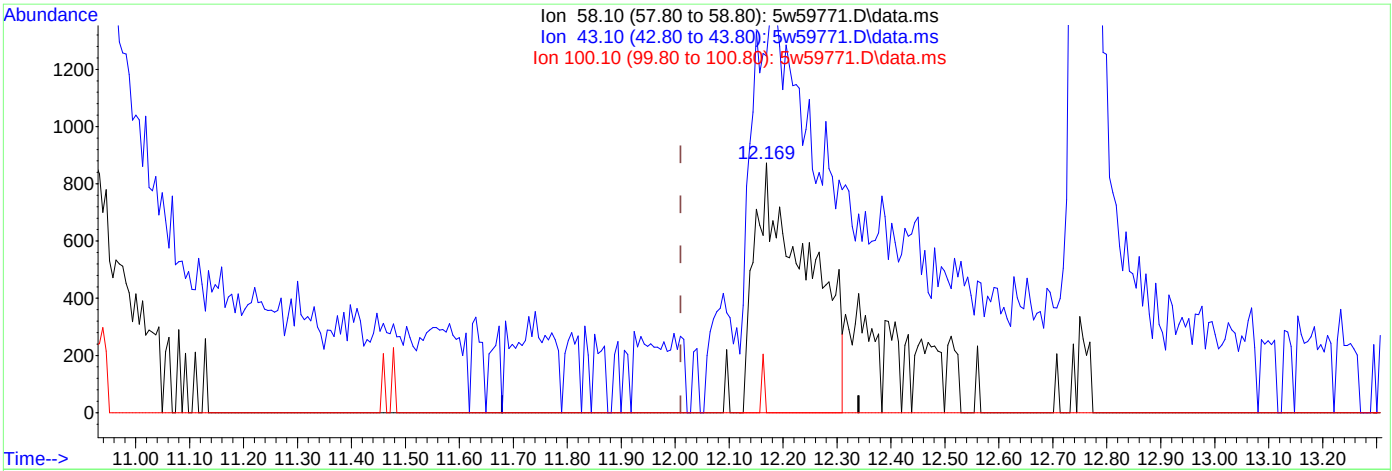
Ion	Exp%	Act%
55.10	100	100
56.10	12.30	0.00#
45.10	9.40	0.00#
99.10	9.20	0.00#

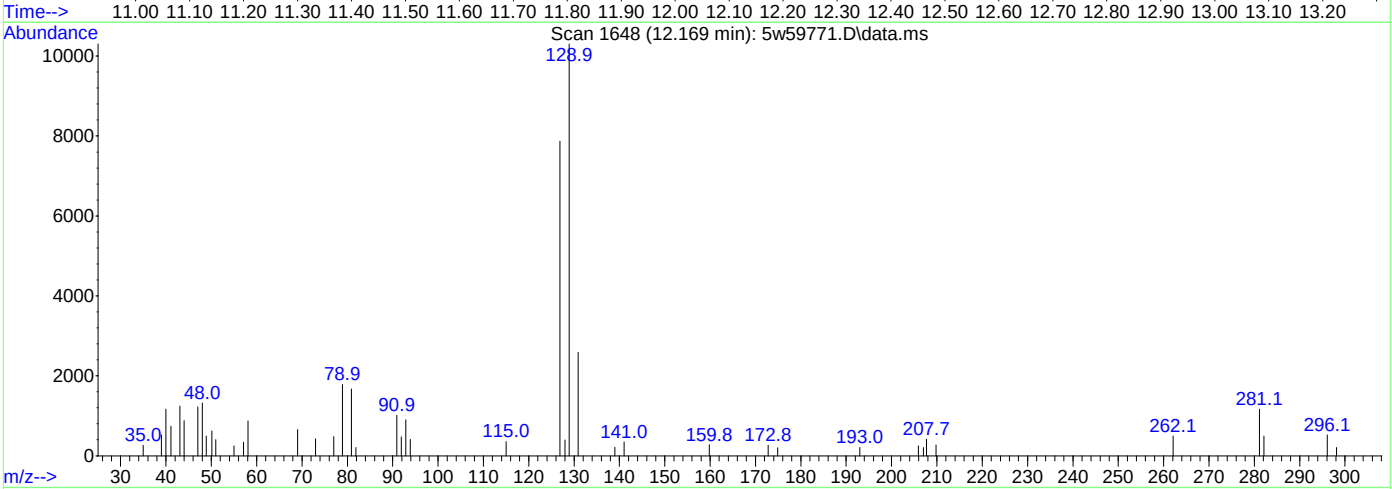
5W59771.D edits: ETHYL ACRYLATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.11PPBV

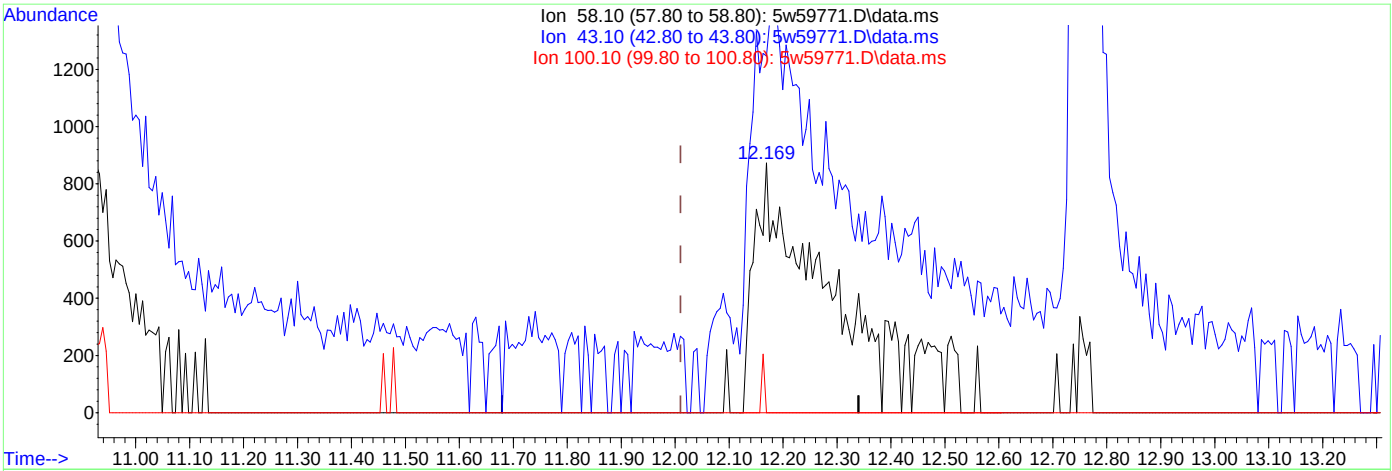
response 5939

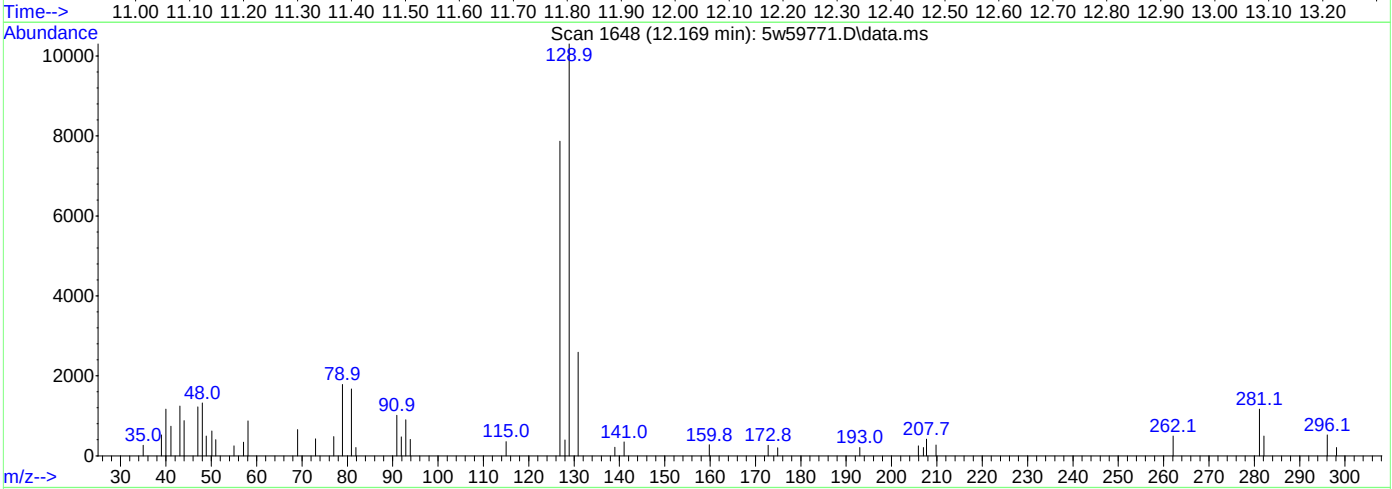
Ion	Exp%	Act%
58.10	100	100
43.10	167.20	158.80
100.10	16.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59771.D
Acq On : 6 Nov 2025 11:50 pm
Operator : benk
Sample : ic2292-0.2
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:37:29 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 13:04:59 2025
Response via : Initial Calibration





TIC: 5w59771.D\data.ms

(71) 2-HEXANONE

12.169min (+0.159) 0.16PPBV m

response 9038

Ion	Exp%	Act%
58.10	100	100
43.10	167.20	104.35#
100.10	16.90	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.348	128	472964	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.208	114	2121089	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1052969	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.348	128	476464	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1418470	11.18	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 111.80%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	21944	0.27	PPBV		98
3) FREON 152A	3.445	65	16180	0.33	PPBV		98
4) CHLORODIFLUOROMETHANE	3.476	67	7935	0.34	PPBV		97
5) CHLOROTRIFLUOROETHENE	3.500	116	37384	0.32	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	74611	0.34	PPBV		99
7) PROPYLENE	3.500	41	19764	0.39	PPBV		87
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	65023	0.39	PPBV		98
9) FREON 114	3.732	85	75616	0.38	PPBV		98
10) CHLOROMETHANE	3.665	52	8248	0.38	PPBV		89
11) VINYL CHLORIDE	3.818	62	25119	0.33	PPBV		95
12) 1,3-BUTADIENE	3.910	54	15745	0.37	PPBV		97
13) n-BUTANE	3.947	43	26092	0.38	PPBV	#	94
14) BROMOMETHANE	4.106	94	25633	0.33	PPBV		84
15) CHLOROETHANE	4.222	64	12538	0.39	PPBV		96
16) DICHLOROFLUOROMETHANE	4.289	67	56285	0.36	PPBV		97
17) ACETONITRILE	4.497	41	14827	0.37	PPBV		98
18) ACROLEIN	4.589	56	7542m	0.30	PPBV		
19) FREON 123	4.589	83	65470m	0.37	PPBV		
20) FREON 123A	4.632	117	39245	0.38	PPBV		99
21) TRICHLOROFLUOROMETHANE	4.791	101	67375	0.36	PPBV		98
22) ISOPROPYL ALCOHOL	4.907	45	51138	0.37	PPBV		95
23) ACETONE	4.705	58	10630	0.38	PPBV		97
24) PENTANE	5.072	42	25466	0.38	PPBV		99
25) IODOMETHANE	5.250	142	79998	0.35	PPBV		100
26) 1,1-DICHLOROETHYLENE	5.317	96	27579	0.36	PPBV		96
27) CARBON DISULFIDE	5.672	76	72450	0.34	PPBV		99
28) ETHANOL	4.338	45	9883	0.39	PPBV		97
29) BROMOETHENE	4.479	106	27007	0.35	PPBV		98
30) ACRYLONITRILE	5.060	52	17143	0.37	PPBV		98
31) METHYLENE CHLORIDE	5.421	84	22923	0.34	PPBV		98
32) 3-CHLOROPROPENE	5.525	76	12479	0.36	PPBV	#	88
33) FREON 113	5.641	151	45001	0.33	PPBV		99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	28115	0.35	PPBV		87
35) TERTIARY BUTYL ALCOHOL	5.439	59	48711	0.31	PPBV		96
36) METHYL TERTIARY BUTYL ...	6.516	73	72222	0.36	PPBV		95
37) TETRAHYDROFURAN	7.917	72	9128	0.29	PPBV	#	81
38) HEXANE	7.385	57	38643	0.34	PPBV		92
39) VINYL ACETATE	6.602	86	2461	0.19	PPBV	#	68
40) 1,1-DICHLOROETHANE	6.424	63	51689	0.36	PPBV		98
41) METHYL ETHYL KETONE	6.859	72	9022	0.28	PPBV		97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	29380	0.35	PPBV		94
43) DIISOPROPYL ETHER	7.415	59	10994	0.31	PPBV	#	84
44) ETHYL ACETATE	7.470	61	7547	0.29	PPBV	#	73
45) METHYL ACRYLATE	7.452	55	42153m	0.30	PPBV		
46) CHLOROFORM	7.477	83	58038	0.34	PPBV		88
47) 2,4-DIMETHYLPENTANE	8.223	57	46136	0.34	PPBV		99
48) 1,1,1-TRICHLOROETHANE	8.413	97	60433	0.34	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	65062	0.33	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	41098	0.34	PPBV		99
52)	BENZENE	8.859	78	76538	0.34	PPBV		99
53)	CYCLOHEXANE	9.110	84	30877	0.34	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	14658	0.32	PPBV		92
55)	TRICHLOROETHYLENE	9.893	95	37369	0.32	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	33377	0.35	PPBV		96
57)	DIBROMOMETHANE	9.636	174	39103	0.31	PPBV		97
58)	ETHYL ACRYLATE	9.740	55	44771	0.25	PPBV		96
59)	BROMODICHLOROMETHANE	9.856	83	64038	0.31	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	127085	0.35	PPBV		99
61)	1,4-DIOXANE	9.973	88	17043	0.32	PPBV	#	1
62)	HEPTANE	10.187	43	45917	0.38	PPBV		94
63)	METHYL METHACRYLATE	10.144	69	24229	0.31	PPBV	#	60
64)	METHYL ISOBUTYL KETONE	10.854	58	20298	0.27	PPBV		89
65)	cis-1,3-DICHLOROPROPENE	10.762	75	50330	0.32	PPBV		85
66)	TOLUENE	11.728	92	53175	0.31	PPBV		97
67)	1,3-DICHLOROPROPANE	11.765	76	45275	0.32	PPBV	#	92
68)	trans-1,3-DICHLOROPROPENE	11.300	75	44098	0.30	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.459	83	29376	0.31	PPBV		99
71)	2-HEXANONE	12.077	58	24053	0.25	PPBV		89
72)	ETHYL METHACRYLATE	12.053	69	39133	0.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	42039	0.36	PPBV		97
74)	DIBROMOCHLOROMETHANE	12.157	129	68347	0.33	PPBV		100
75)	1,2-DIBROMOETHANE	12.401	107	57560	0.36	PPBV		99
76)	OCTANE	12.750	43	57196	0.37	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	44229	0.34	PPBV		99
78)	CHLOROBENZENE	13.588	112	76482	0.36	PPBV		99
79)	ETHYLBENZENE	13.992	91	119442	0.37	PPBV		98
80)	m,p-XYLENE	14.175	106	91065	0.70	PPBV		98
81)	o-XYLENE	14.683	106	43793	0.35	PPBV		94
82)	STYRENE	14.585	104	68779	0.36	PPBV		91
83)	NONANE	14.934	43	61419	0.39	PPBV		97
84)	BROMOFORM	14.255	173	65517	0.31	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	78542	0.37	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.830	75	59513	0.37	PPBV		94
88)	ISOPROPYLBENZENE	15.301	105	132085	0.35	PPBV		99
89)	BROMOBENZENE	15.381	77	64086	0.34	PPBV		99
90)	2-CHLOROTOLUENE	15.778	126	34084	0.33	PPBV		96
91)	n-PROPYLBENZENE	15.821	120	35058	0.34	PPBV		100
92)	4-ETHYLTOLUENE	15.968	105	126699	0.35	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	115870	0.38	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.206	118	51966	0.31	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	23128	0.35	PPBV		93
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	112549	0.37	PPBV		98
97)	m-DICHLOROBENZENE	16.586	146	80323	0.33	PPBV		99
98)	BENZYL CHLORIDE	16.580	91	94193	0.31	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	89982	0.38	PPBV		99
100)	sec-BUTYLBENZENE	16.702	134	28746	0.34	PPBV	#	87
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	117540	0.37	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	34620	0.35	PPBV		94
103)	o-DICHLOROBENZENE	16.983	146	81336	0.35	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	31100	0.32	PPBV	#	83
105)	HEXACHLOROETHANE	17.607	117	56860	0.36	PPBV		98
106)	HEXACHLOROBUTADIENE	18.966	225	78824	0.35	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.892	180	74442	0.33	PPBV		99
108)	NAPHTHALENE	18.672	128	165689	0.33	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	163703	0.37	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

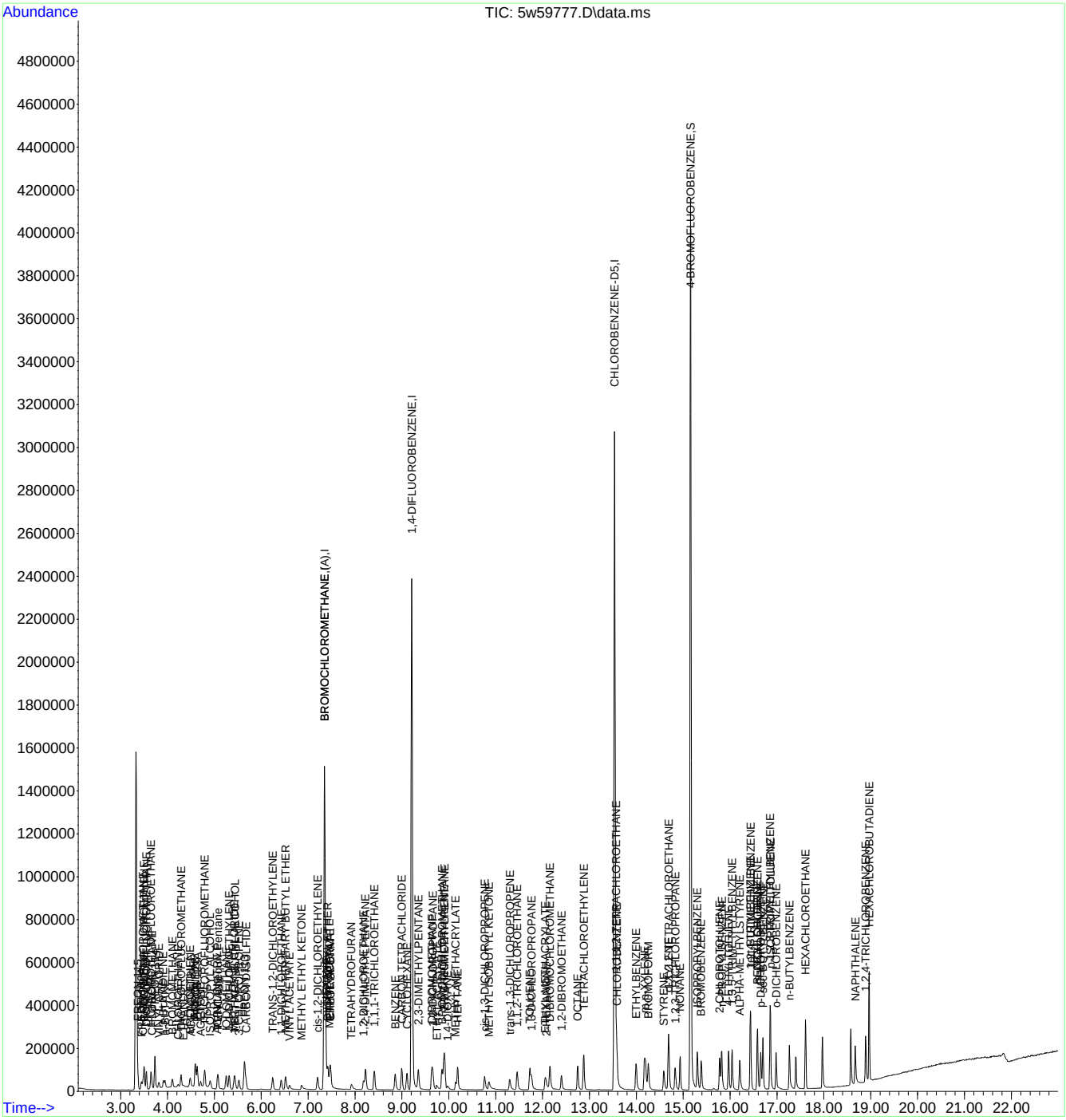
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

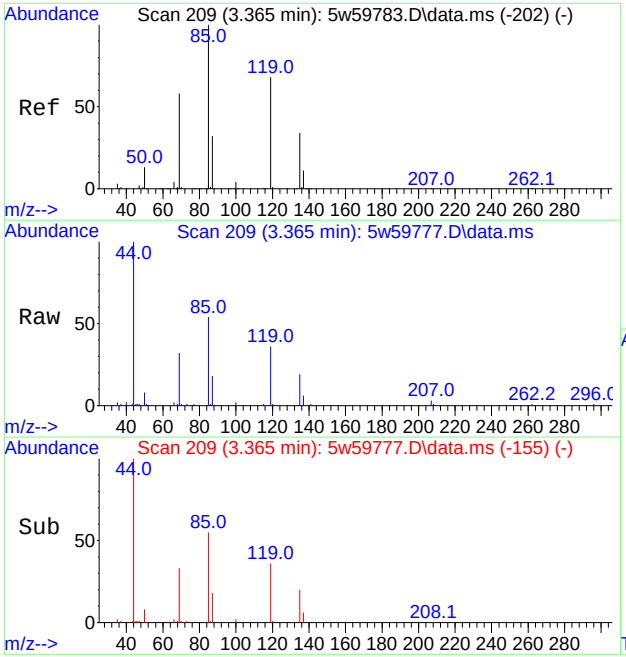
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:50:42 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration

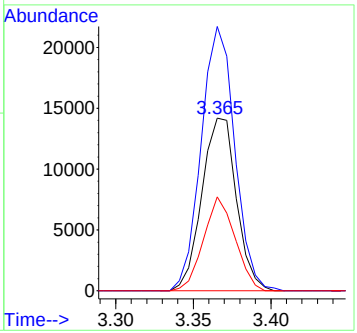


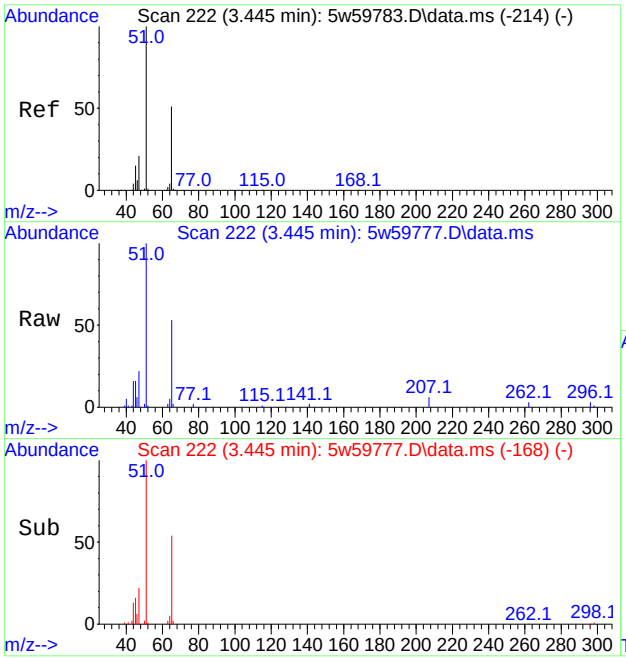


#2
FREON 115
Concen: 0.27 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:119 Resp: 21944

Ion	Ratio	Lower	Upper
119	100		
85	148.6	116.2	176.2
135	49.6	20.6	80.6

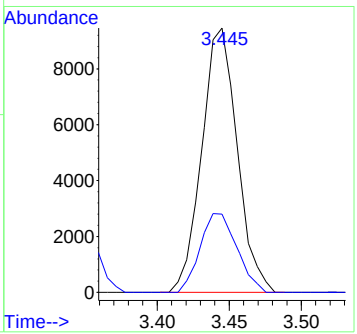


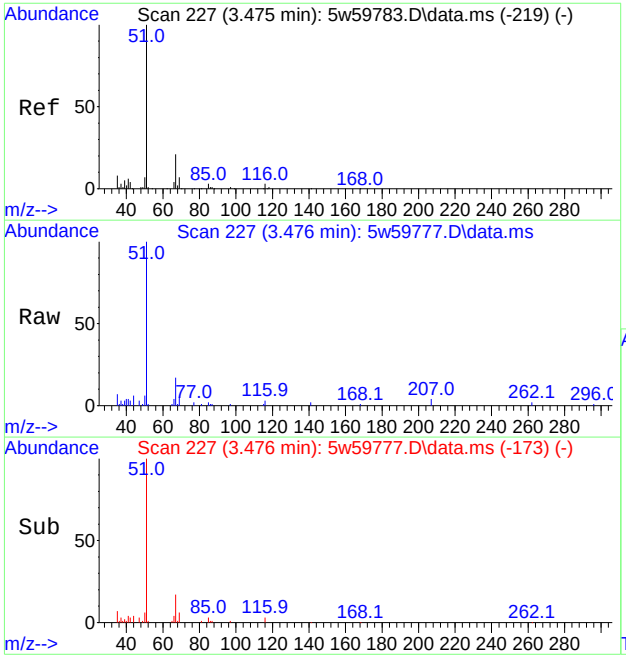


#3
FREON 152A
Concen: 0.33 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 16180

Ion	Ratio	Lower	Upper
65	100		
45	31.0	0.0	60.0

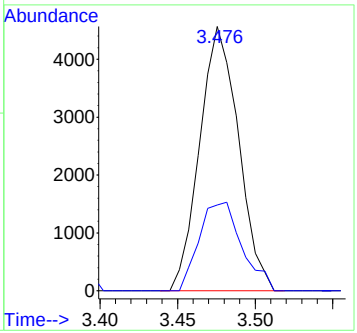


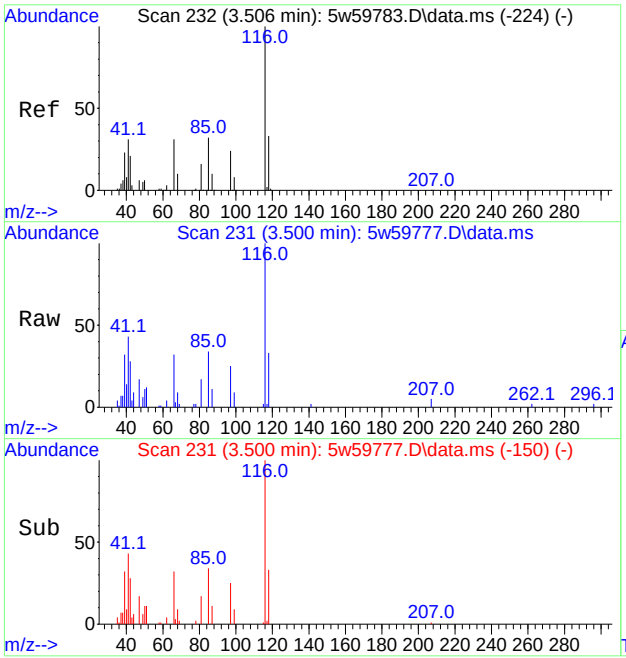


#4
CHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 7935

Ion	Ratio	Lower	Upper
67	100		
69	32.4	1.0	61.0

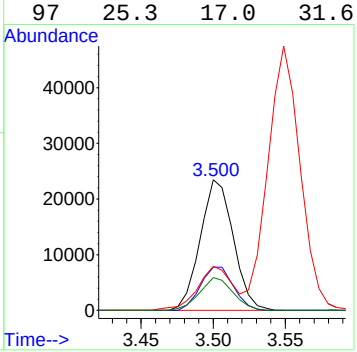


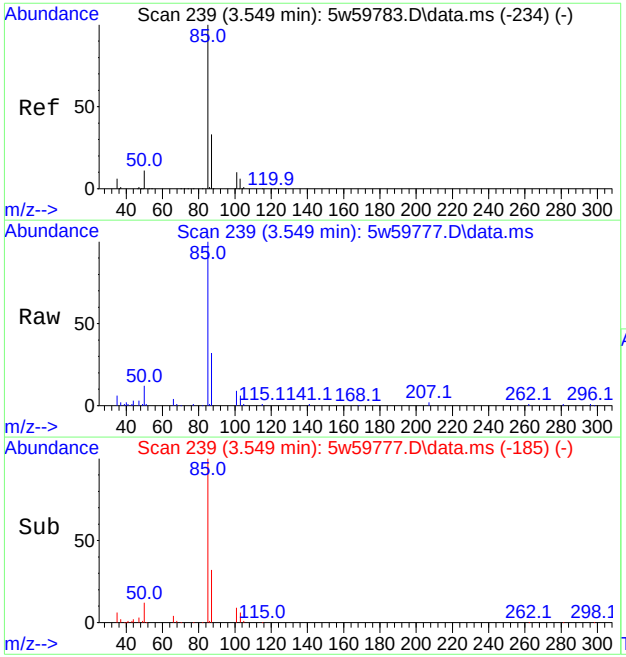


#5
CHLOROTRIFLUOROETHENE
Concen: 0.32 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:116 Resp: 37384

Ion	Ratio	Lower	Upper
116	100		
118	33.2	22.9	42.5
85	35.1	23.7	44.1
97	25.3	17.0	31.6

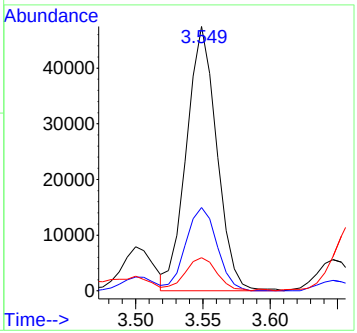


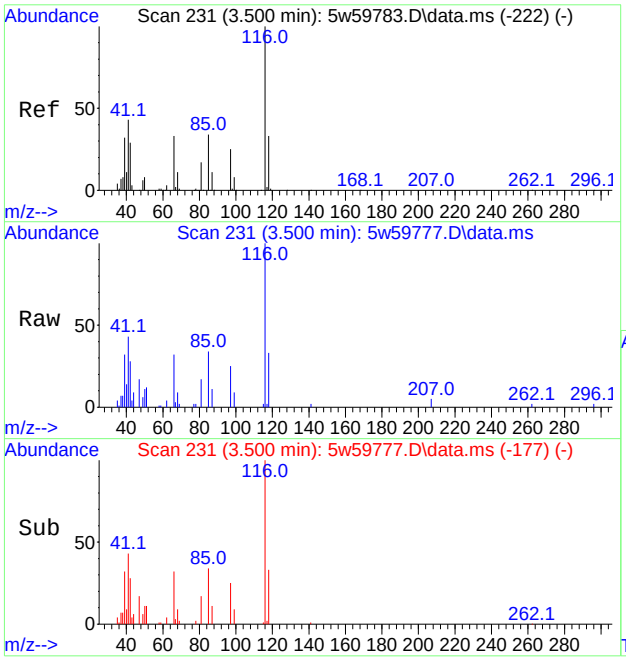


#6
DICHLORODIFLUOROMETHANE
Concen: 0.34 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 74611

Ion	Ratio	Lower	Upper
85	100		
87	32.4	2.5	62.5
50	13.2	0.0	41.7

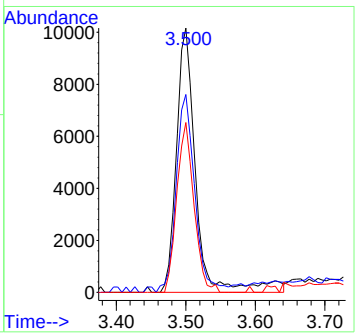


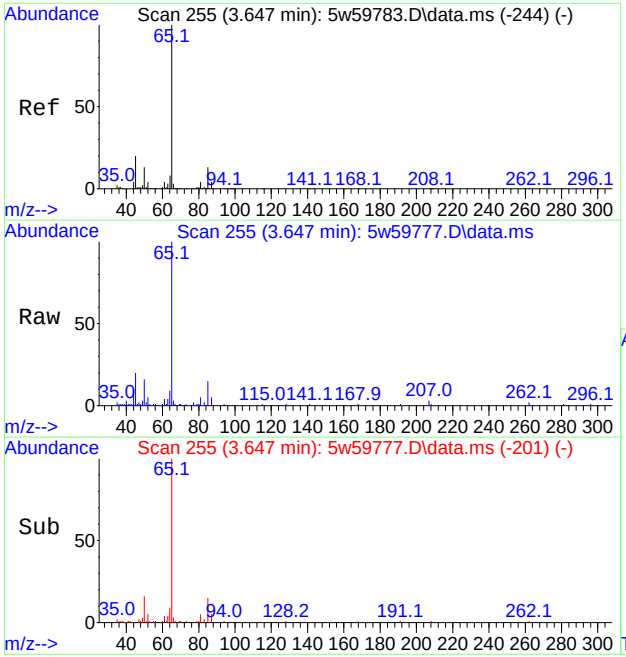


#7
PROPYLENE
Concen: 0.39 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 19764

Ion	Ratio	Lower	Upper
41	100		
39	87.7	45.1	105.1
42	56.8	36.3	96.3

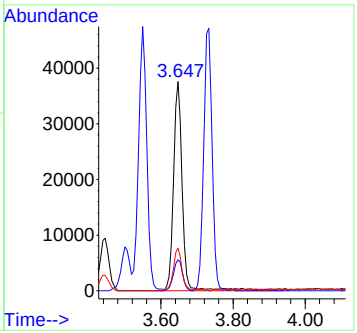


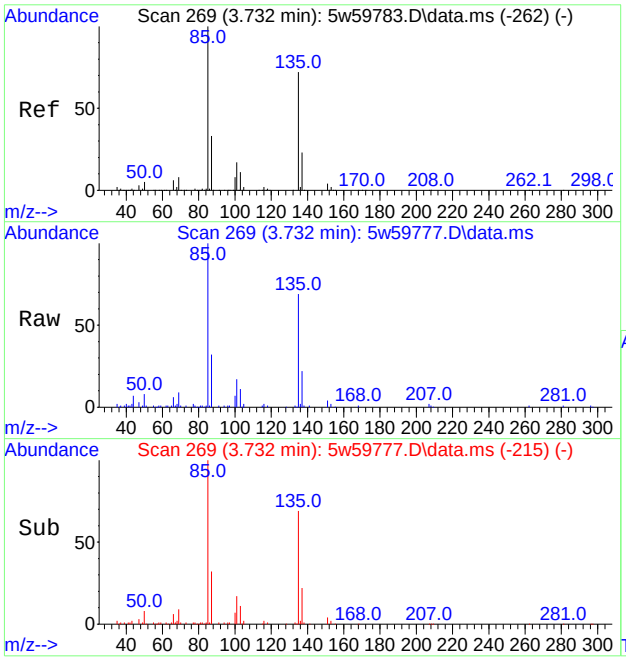


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.39 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 65 Resp: 65023

Ion	Ratio	Lower	Upper
65	100		
85	15.0	11.5	21.3
45	20.1	14.0	26.0

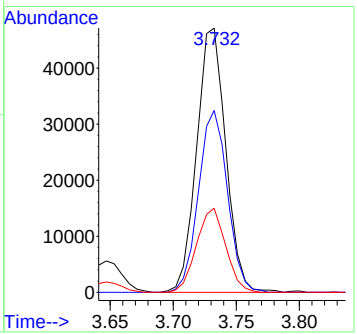


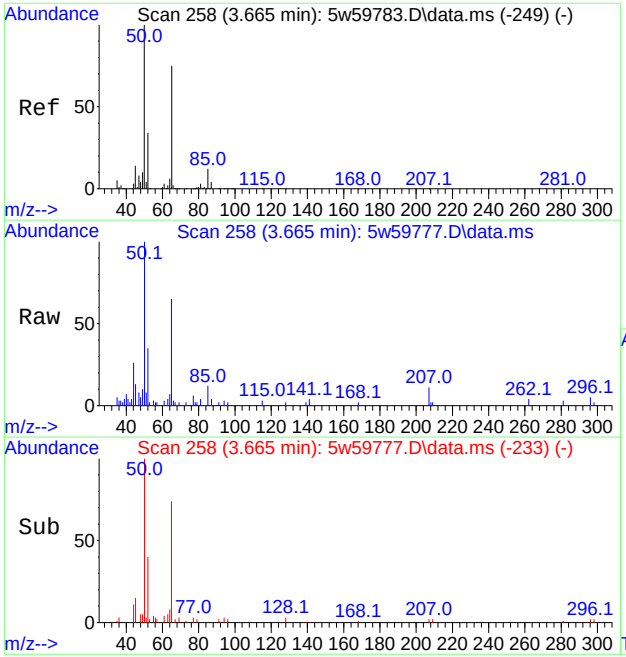


#9
FREON 114
Concen: 0.38 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 85 Resp: 75616

Ion	Ratio	Lower	Upper
85	100		
135	68.6	40.5	100.5
87	31.9	3.0	63.0

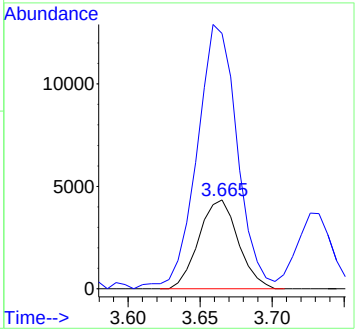


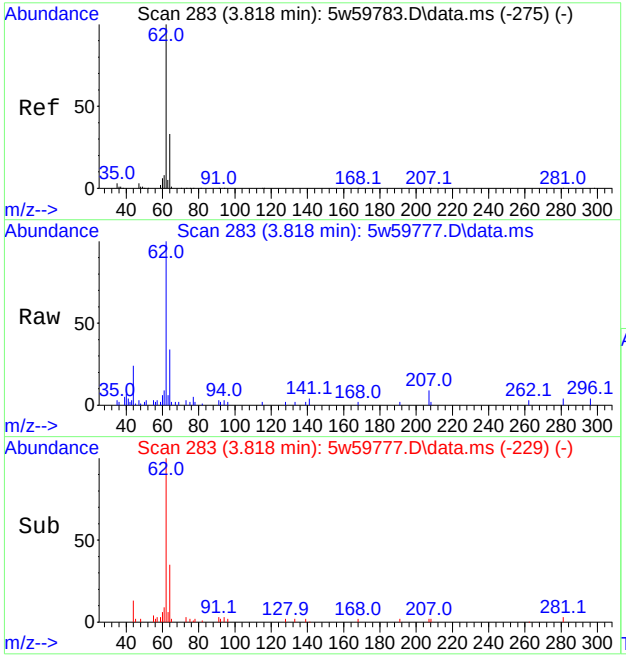


#10
CHLOROMETHANE
Concen: 0.38 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 8248

Ion	Ratio	Lower	Upper
52	100		
50	276.5	267.9	327.9

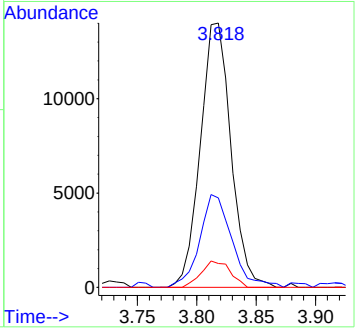




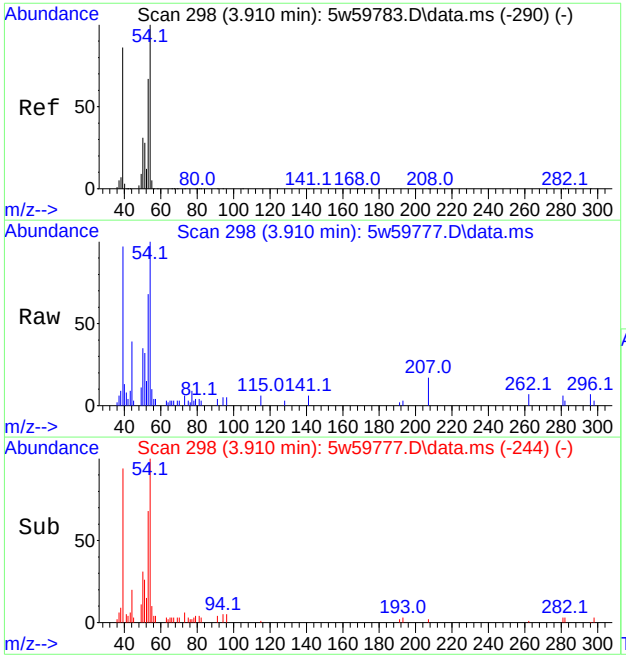
#11
VINYL CHLORIDE
Concen: 0.33 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 25119

Ion	Ratio	Lower	Upper
62	100		
64	36.8	3.6	63.6
61	9.4	0.0	38.2



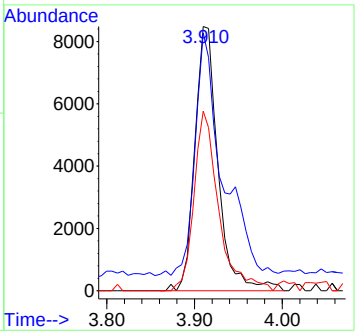
7.7.4

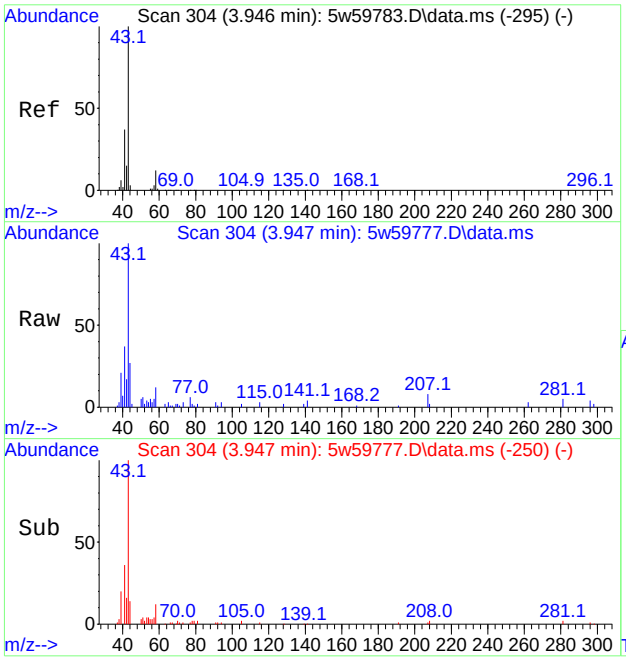


#12
1,3-BUTADIENE
Concen: 0.37 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 54 Resp: 15745

Ion	Ratio	Lower	Upper
54	100		
39	115.9	82.0	142.0
53	71.6	40.2	100.2

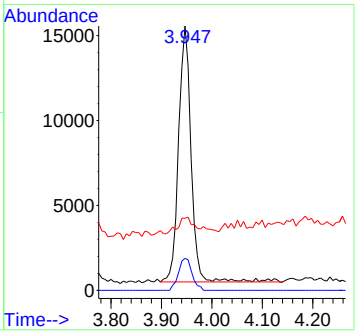


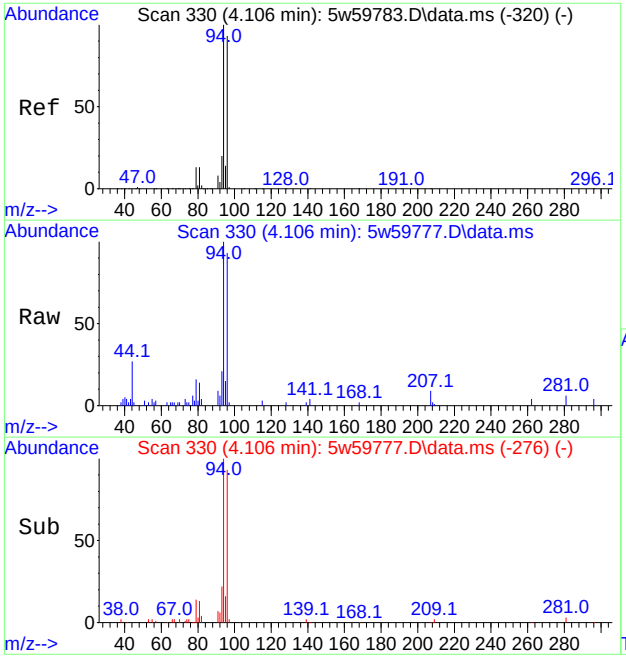


#13
n-BUTANE
Concen: 0.38 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 26092

Ion	Ratio	Lower	Upper
43	100		
58	13.5	0.0	42.6
44	0.0	0.0	34.9

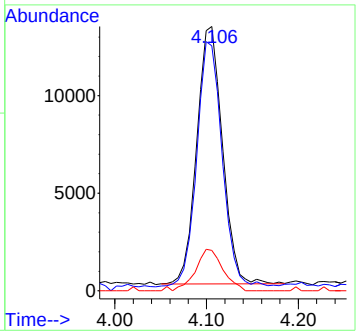


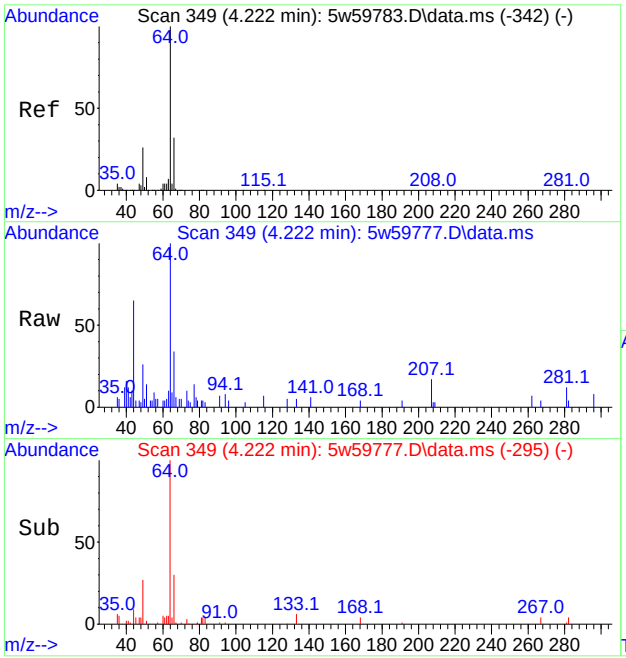


#14
BROMOMETHANE
Concen: 0.33 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 94 Resp: 25633

Ion	Ratio	Lower	Upper
94	100		
96	111.8	65.3	125.3
95	17.3	0.0	44.1

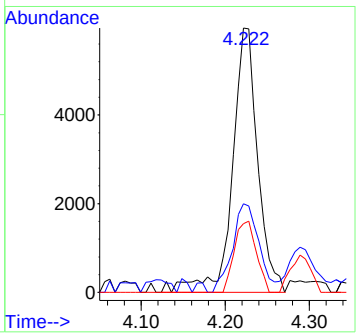


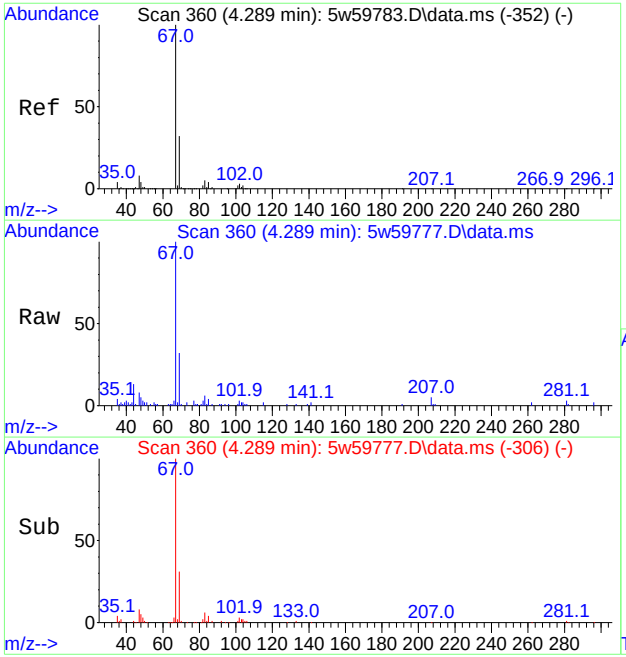


#15
CHLOROETHANE
Concen: 0.39 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 64 Resp: 12538

Ion	Ratio	Lower	Upper
64	100		
66	34.9	3.1	63.1
49	23.3	0.0	55.3

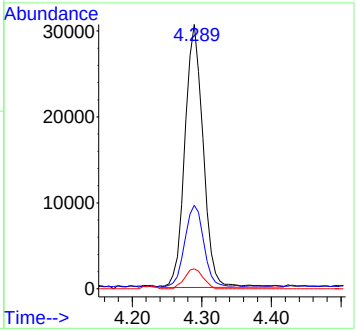


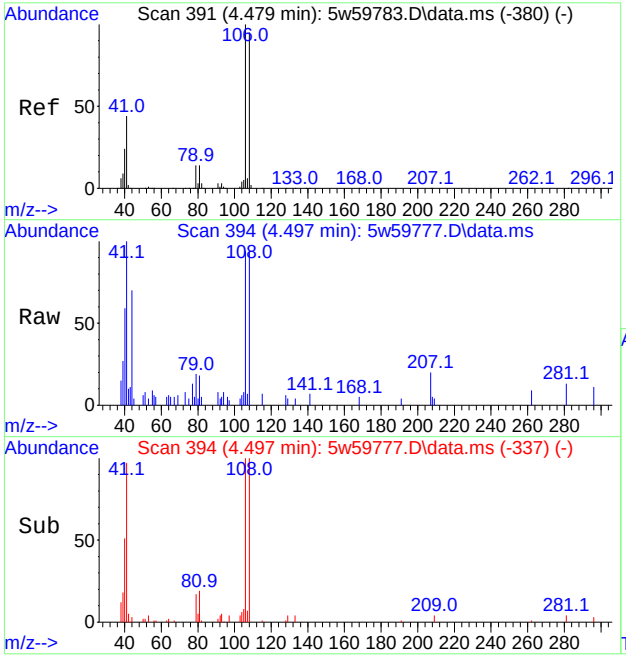


#16
DICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 67 Resp: 56285

Ion	Ratio	Lower	Upper
67	100		
69	34.4	22.7	42.3
47	7.6	5.6	10.4

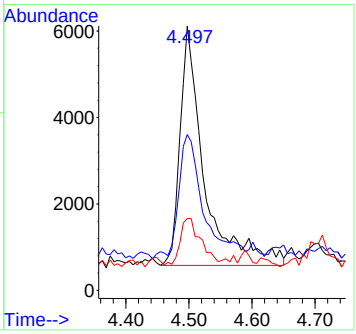


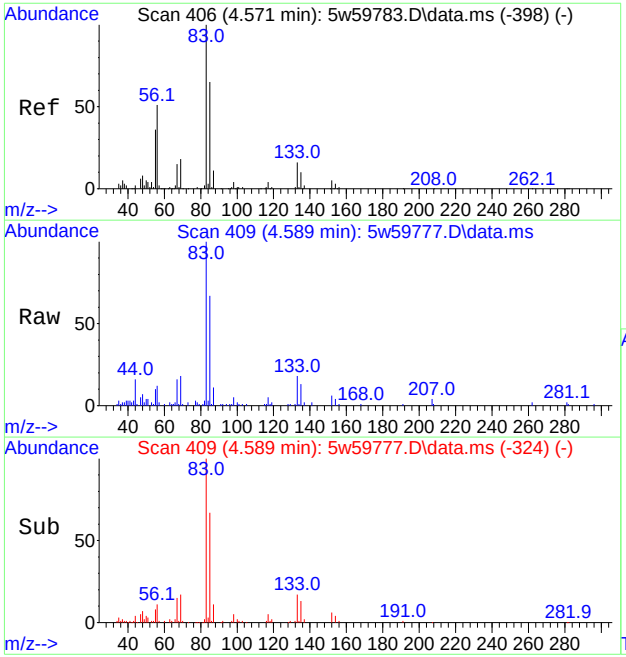


#17
ACETONITRILE
Concen: 0.37 PPBV
RT: 4.497 min Scan# 394
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 41 Resp: 14827

Ion	Ratio	Lower	Upper
41	100		
40	55.5	37.9	70.5
39	17.7	13.4	24.8

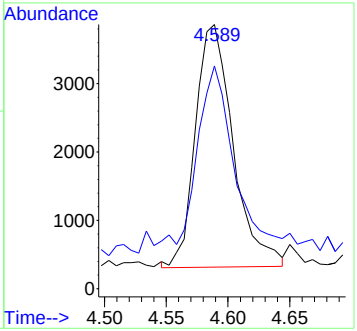


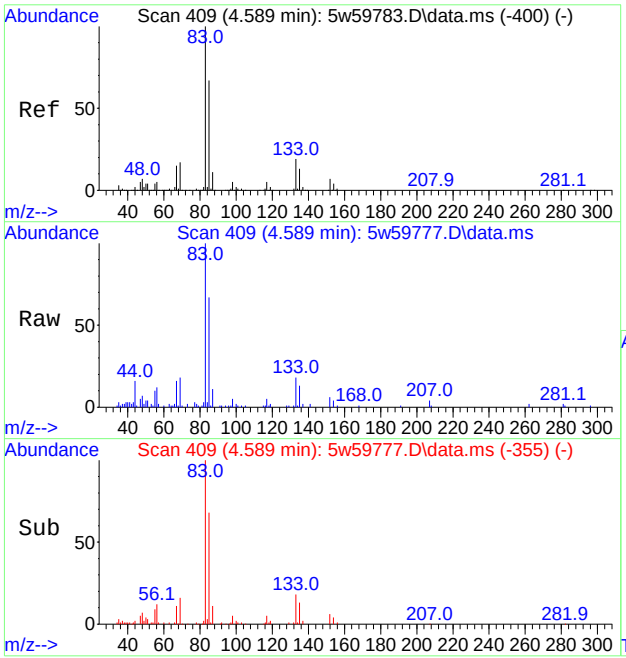


#18
ACROLEIN
Concen: 0.30 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 56 Resp: 7542

Ion	Ratio	Lower	Upper
56	100		
55	78.8	46.6	86.6

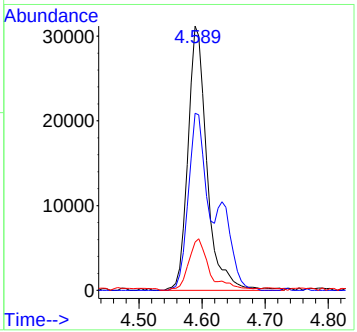


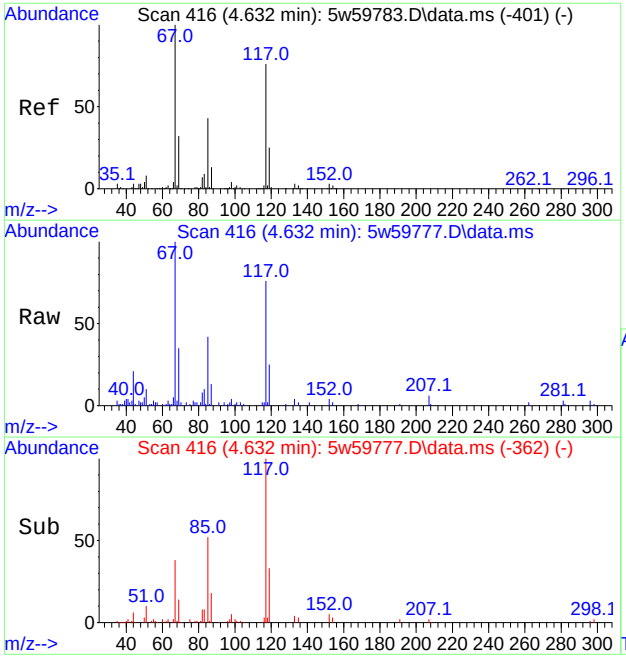


#19
FREON 123
Concen: 0.37 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 65470

Ion	Ratio	Lower	Upper
83	100		
85	65.8	34.0	94.0
133	22.6	0.0	50.7

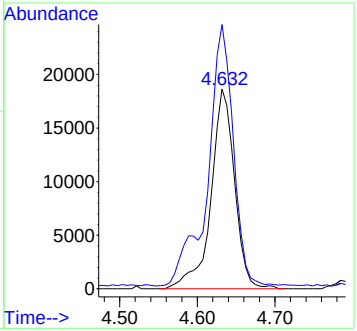


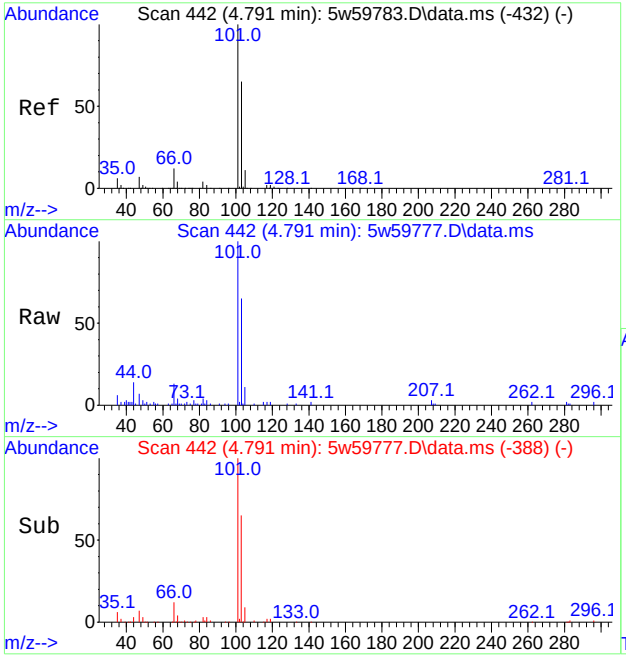


#20
FREON 123A
Concen: 0.38 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 39245

Ion	Ratio	Lower	Upper
117	100		
67	143.3	114.6	174.6

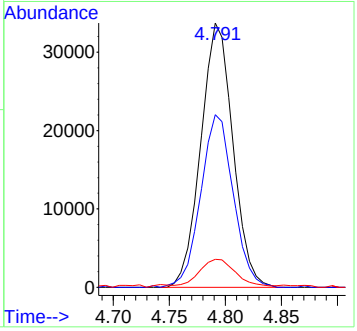


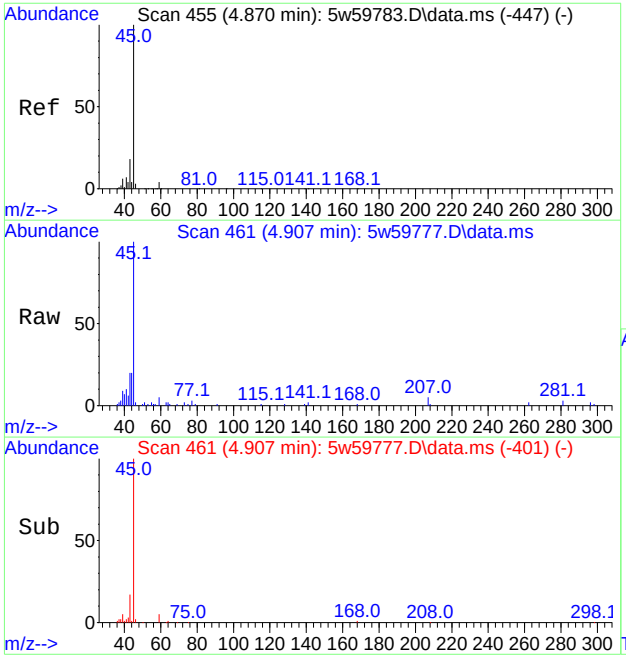


#21
TRICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:101 Resp: 67375

Ion	Ratio	Lower	Upper
101	100		
103	66.3	35.0	95.0
105	12.9	0.0	40.7

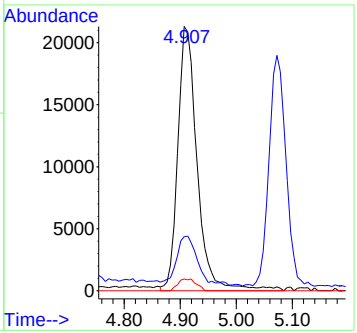


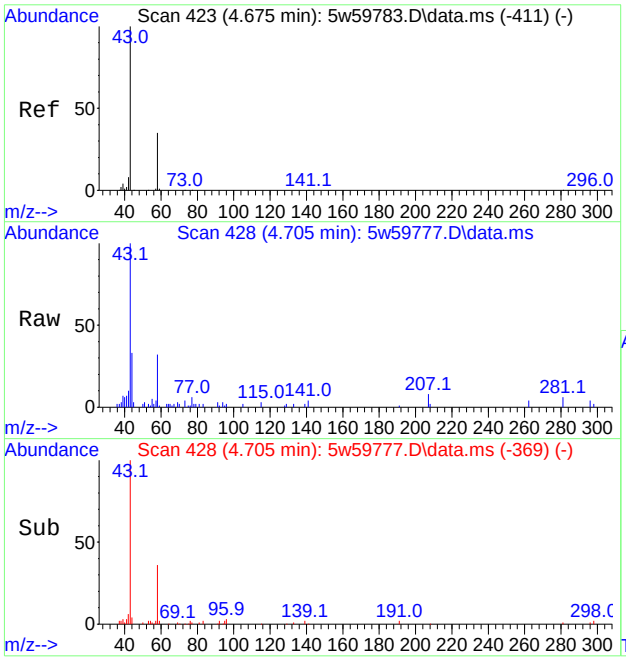


#22
ISOPROPYL ALCOHOL
Concen: 0.37 PPBV
RT: 4.907 min Scan# 461
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 51138

Ion	Ratio	Lower	Upper
45	100		
43	20.4	0.0	47.8
59	4.5	0.0	34.1

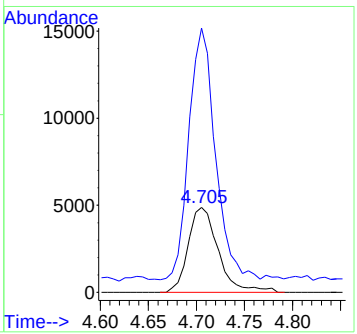


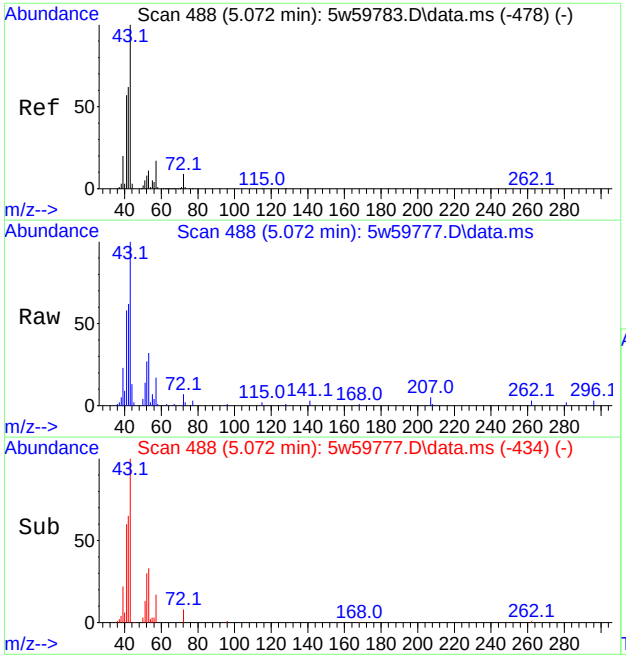


#23
ACETONE
Concen: 0.38 PPBV
RT: 4.705 min Scan# 428
Delta R.T. 0.030 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 10630

Ion	Ratio	Lower	Upper
58	100		
43	277.1	252.3	312.3

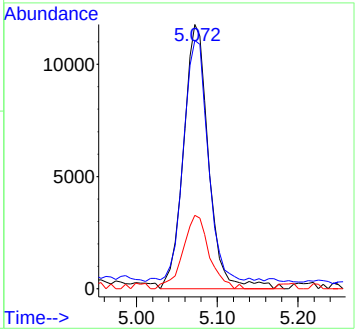


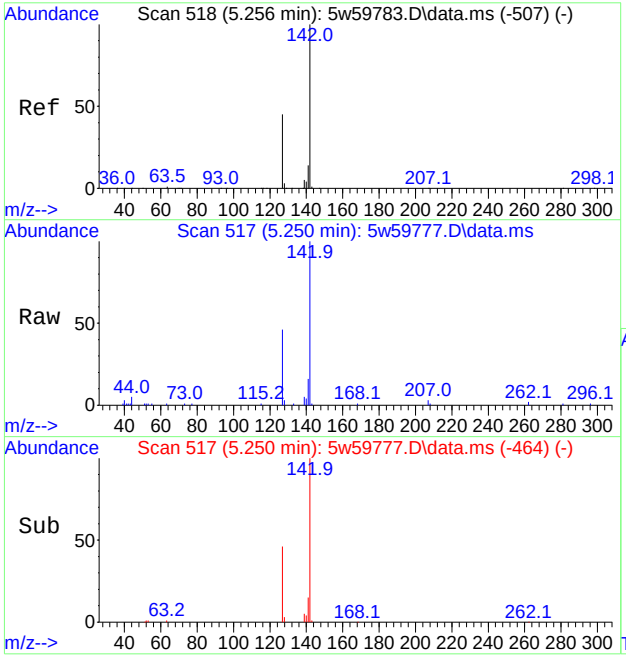


#24
PENTANE
Concen: 0.38 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 42 Resp: 25466

Ion	Ratio	Lower	Upper
42	100		
41	92.5	62.3	122.3
57	29.1	0.0	57.7

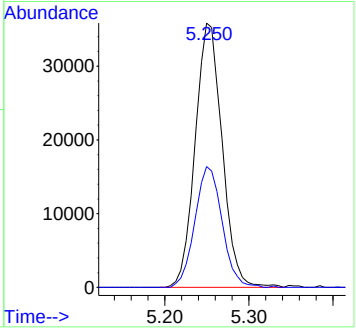


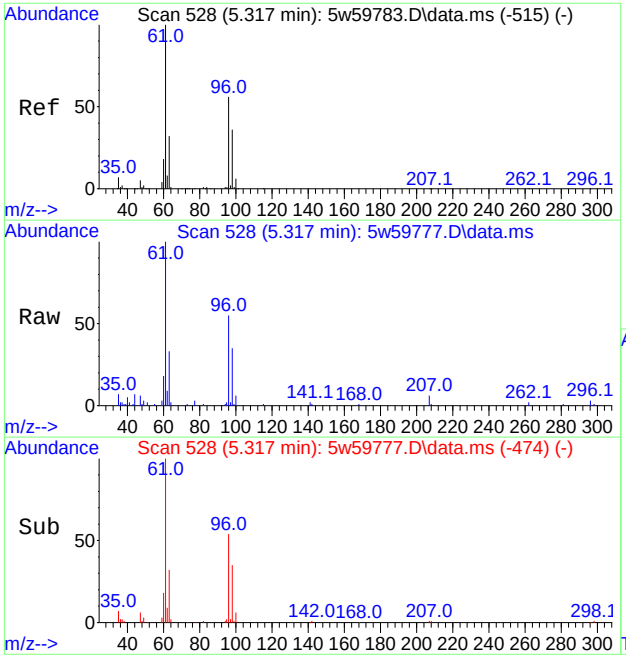


#25
IODOMETHANE
Concen: 0.35 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:142 Resp: 79998

Ion	Ratio	Lower	Upper
142	100		
127	46.1	16.0	76.0

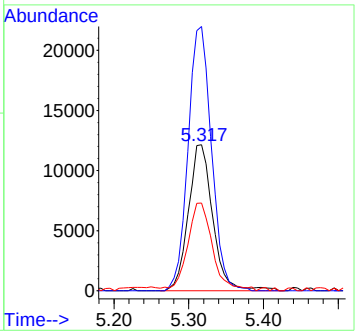


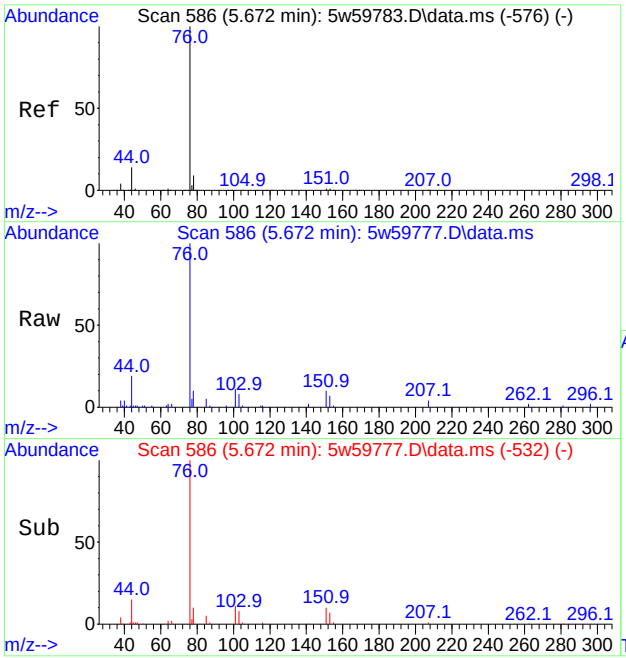


#26
1,1-DICHLOROETHYLENE
Concen: 0.36 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 27579

Ion	Ratio	Lower	Upper
96	100		
61	173.2	148.5	208.5
63	60.6	27.4	87.4

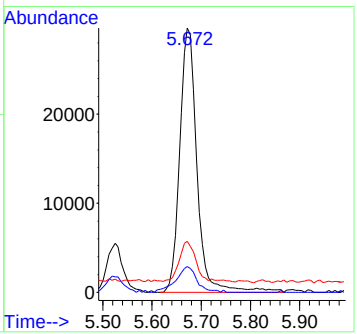


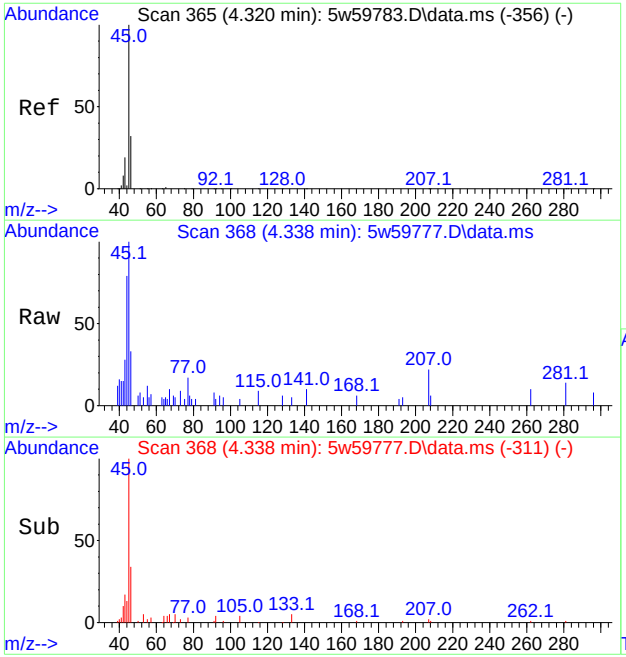


#27
CARBON DISULFIDE
Concen: 0.34 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 72450

Ion	Ratio	Lower	Upper
76	100		
78	11.8	0.0	41.5
44	15.1	0.0	44.6

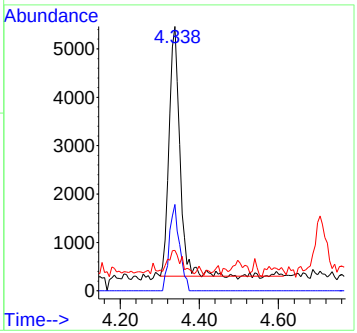


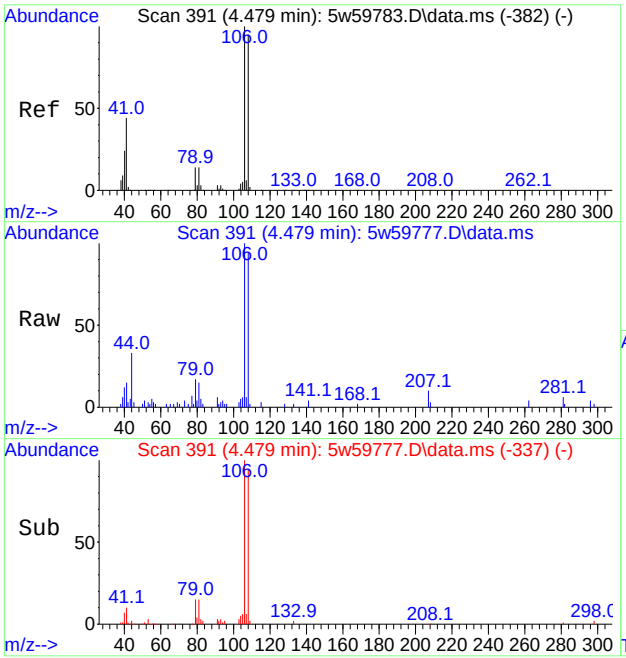


#28
ETHANOL
Concen: 0.39 PPBV
RT: 4.338 min Scan# 368
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 45 Resp: 9883

Ion	Ratio	Lower	Upper
45	100		
46	32.7	2.0	62.0
42	12.7	0.0	38.5

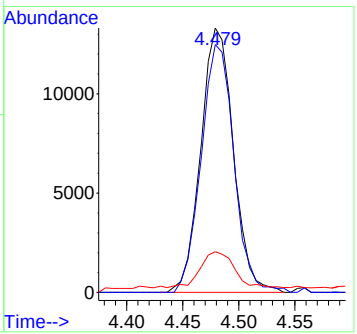


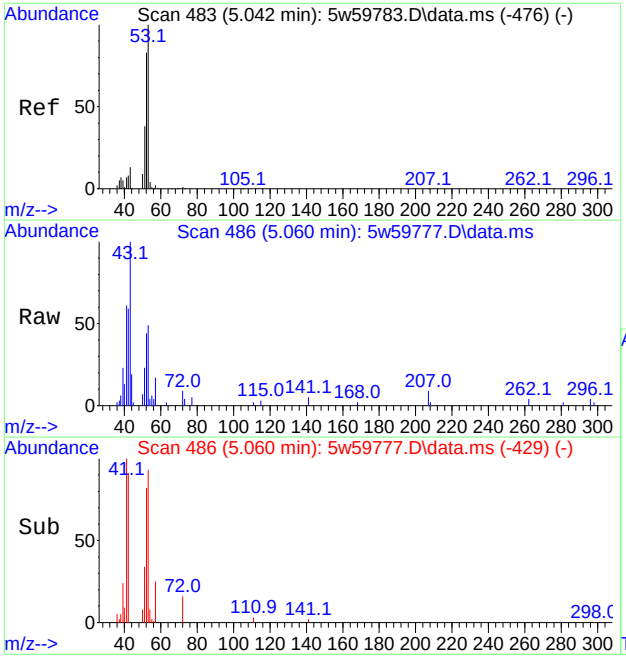


#29
BROMOETHENE
Concen: 0.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 27007

Ion	Ratio	Lower	Upper
106	100		
108	93.9	65.6	125.6
81	13.1	0.0	43.9

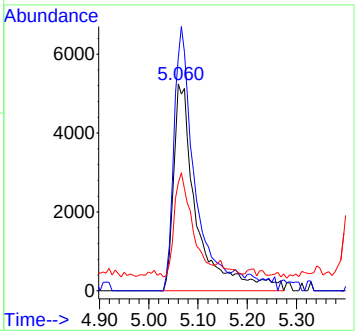


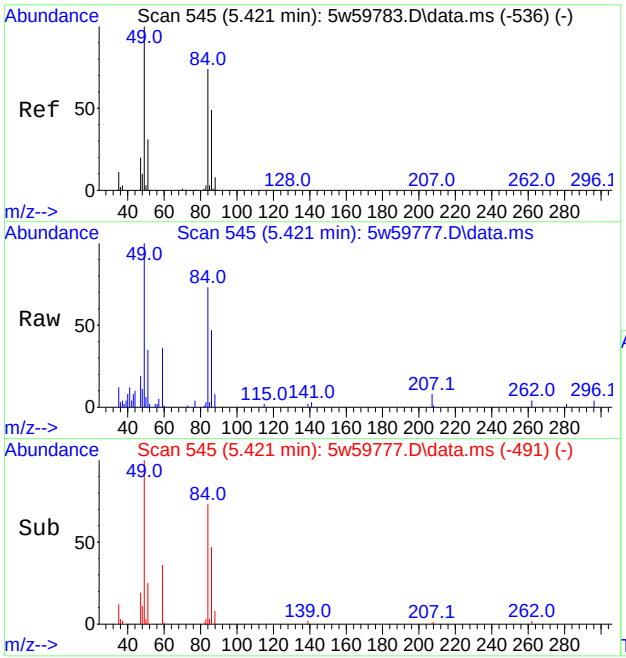


#30
ACRYLONITRILE
Concen: 0.37 PPBV
RT: 5.060 min Scan# 486
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 52 Resp: 17143

Ion	Ratio	Lower	Upper
52	100		
53	123.5	85.8	159.4
51	43.9	32.3	60.1

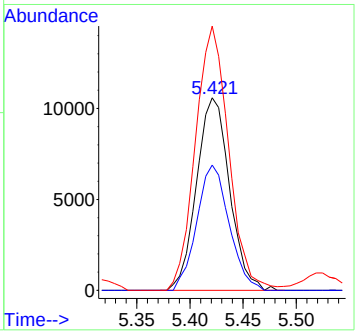


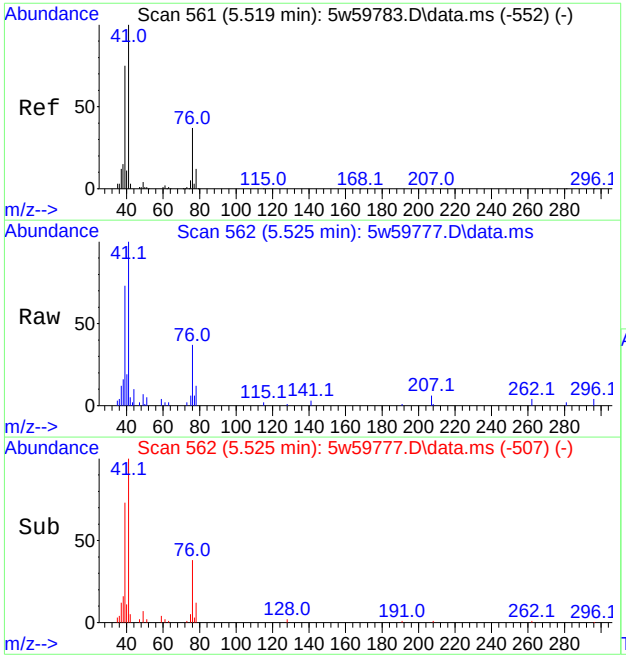


#31
METHYLENE CHLORIDE
Concen: 0.34 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 22923

Ion	Ratio	Lower	Upper
84	100		
86	63.7	35.2	95.2
49	138.4	105.3	165.3

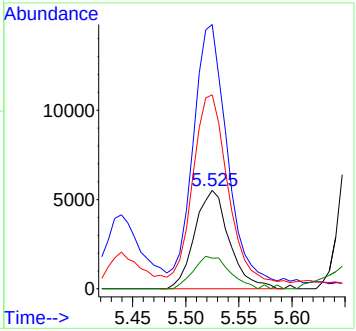


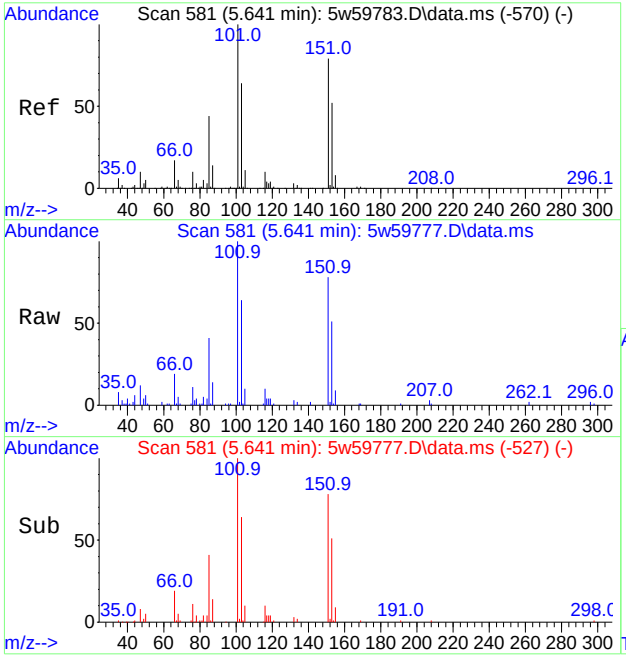


#32
3-CHLOROPROPENE
Concen: 0.36 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 12479

Ion	Ratio	Lower	Upper
76	100		
41	307.5	240.8	300.8#
39	198.9	173.6	233.6
78	34.4	2.8	62.8

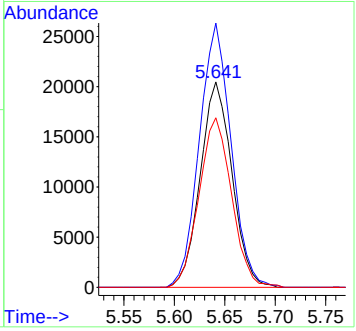


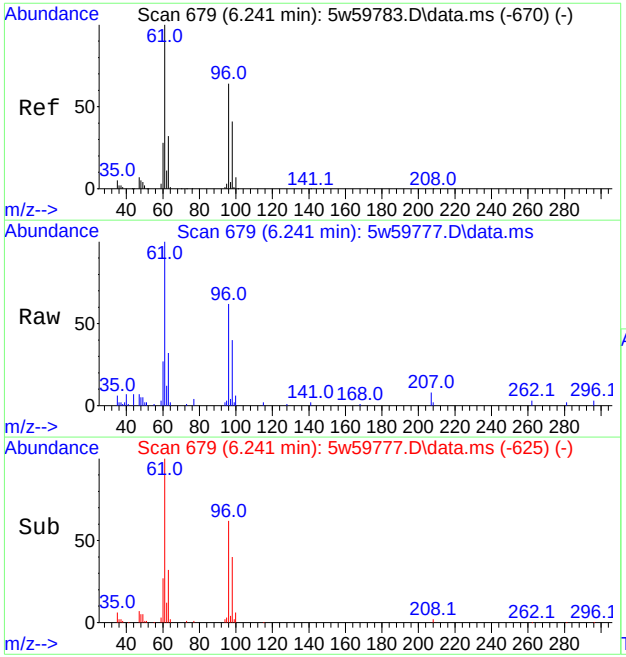


#33
FREON 113
Concen: 0.33 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:151 Resp: 45001

Ion	Ratio	Lower	Upper
151	100		
101	128.1	97.5	157.5
103	84.5	52.5	112.5

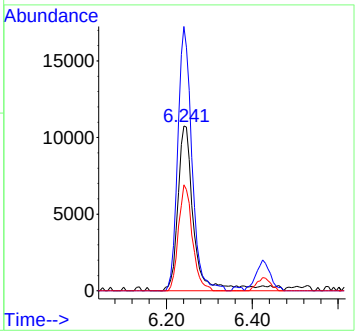


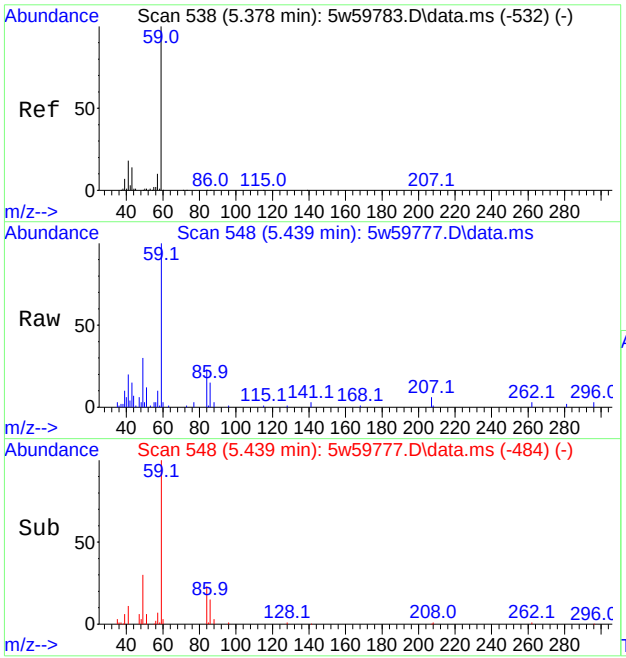


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 28115

Ion	Ratio	Lower	Upper
96	100		
61	139.5	126.4	186.4
98	55.2	34.1	94.1

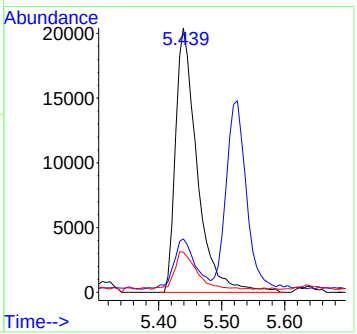


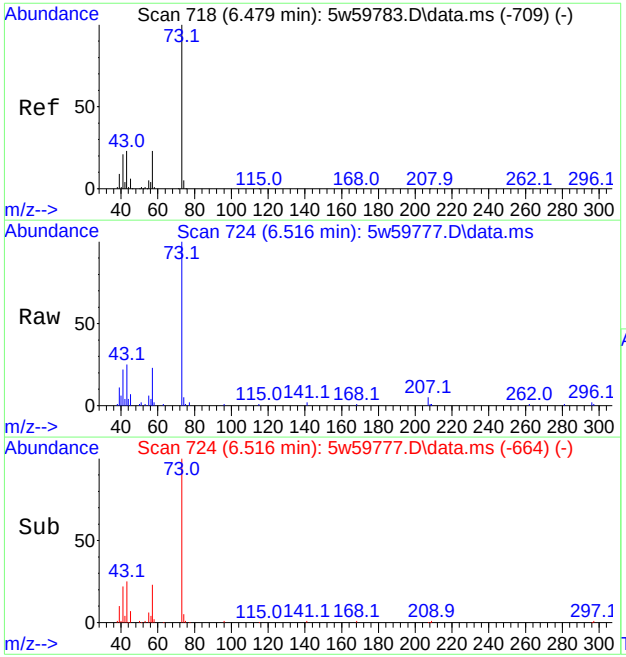


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.31 PPBV
RT: 5.439 min Scan# 548
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 48711

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	17.9	0.0	44.1

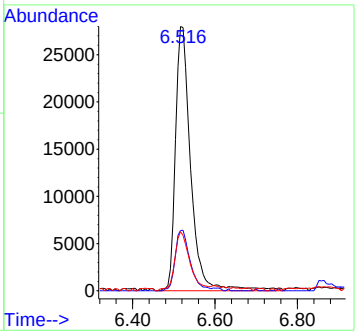


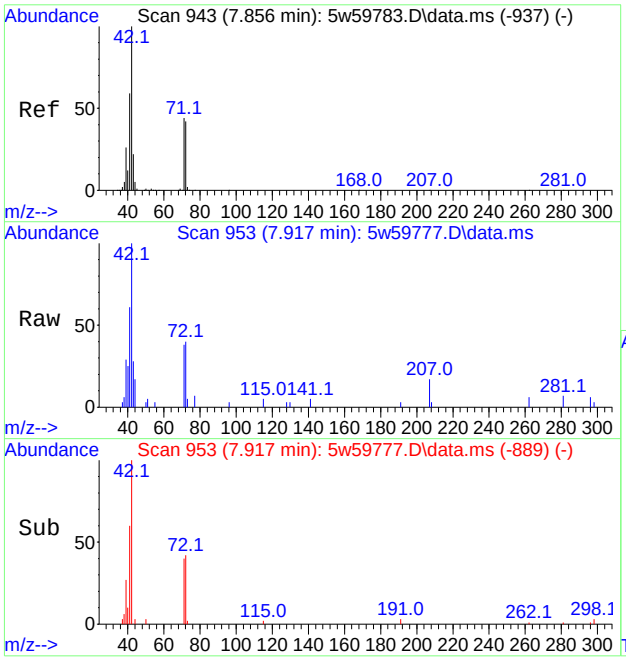


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.36 PPBV
RT: 6.516 min Scan# 724
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 73 Resp: 72222

Ion	Ratio	Lower	Upper
73	100		
57	22.9	0.0	53.1
41	25.0	0.0	50.6

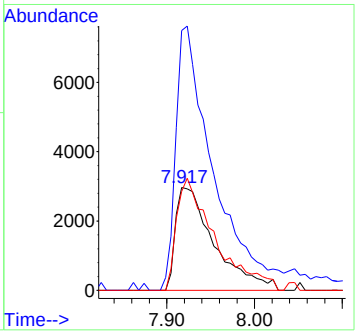


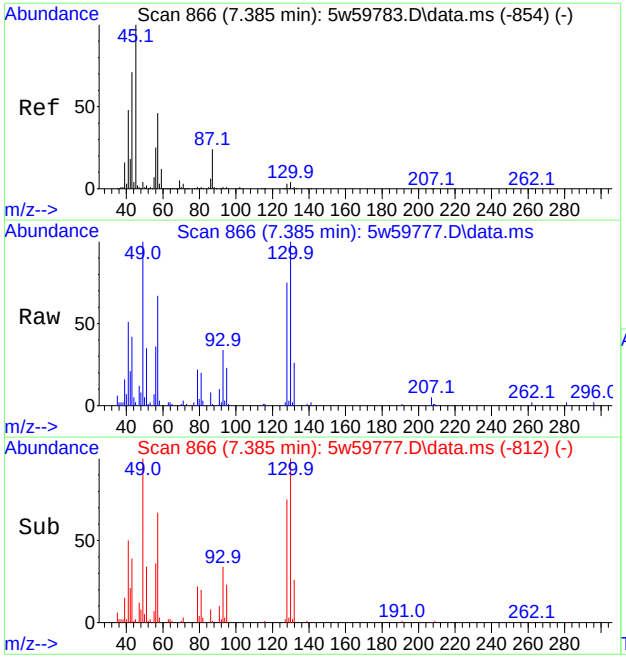


#37
TETRAHYDROFURAN
Concen: 0.29 PPBV
RT: 7.917 min Scan# 953
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9128

Ion	Ratio	Lower	Upper
72	100		
42	273.5	202.4	262.4#
71	107.4	71.1	131.1

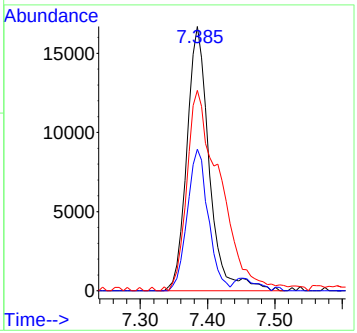


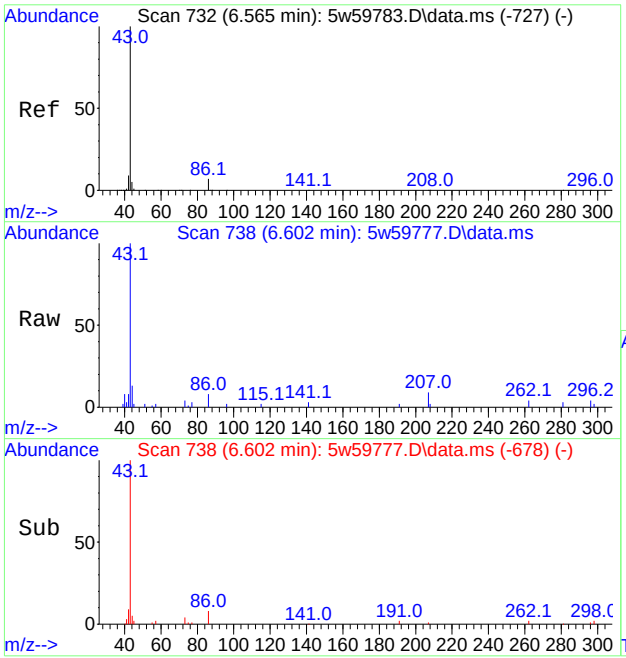


#38
HEXANE
Concen: 0.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 38643

Ion	Ratio	Lower	Upper
57	100		
56	50.3	25.9	85.9
41	113.5	74.7	134.7

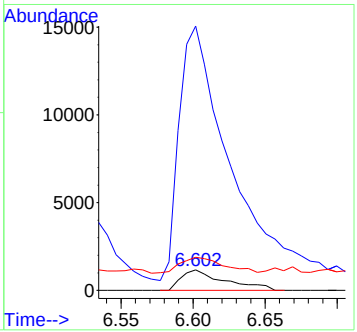


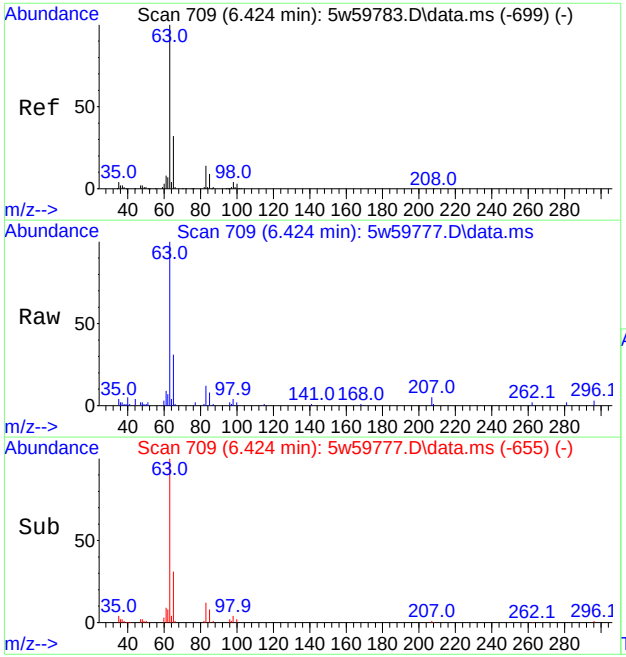


#39
VINYL ACETATE
Concen: 0.19 PPBV
RT: 6.602 min Scan# 738
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 86 Resp: 2461

Ion	Ratio	Lower	Upper
86	100		
43	1595.3	1379.7	1439.7#
44	82.6	36.9	96.9

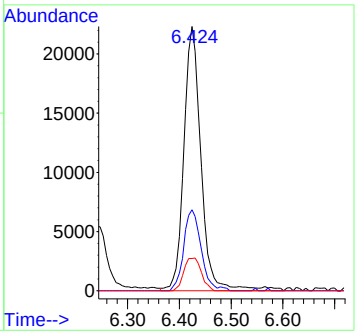


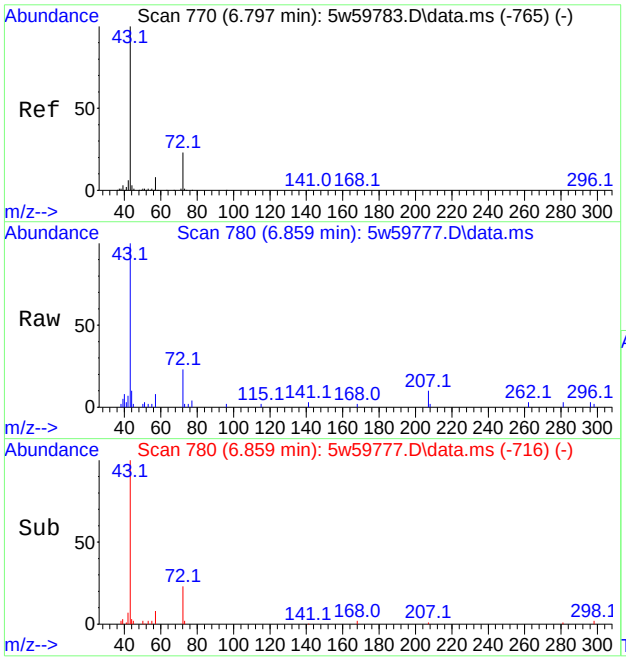


#40
1,1-DICHLOROETHANE
Concen: 0.36 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 51689

Ion	Ratio	Lower	Upper
63	100		
65	31.0	1.7	61.7
83	12.6	0.0	43.5

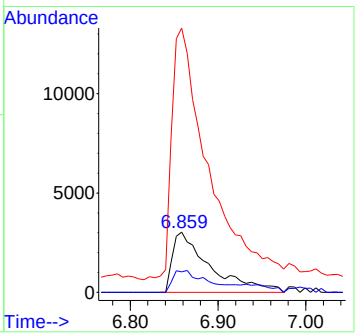


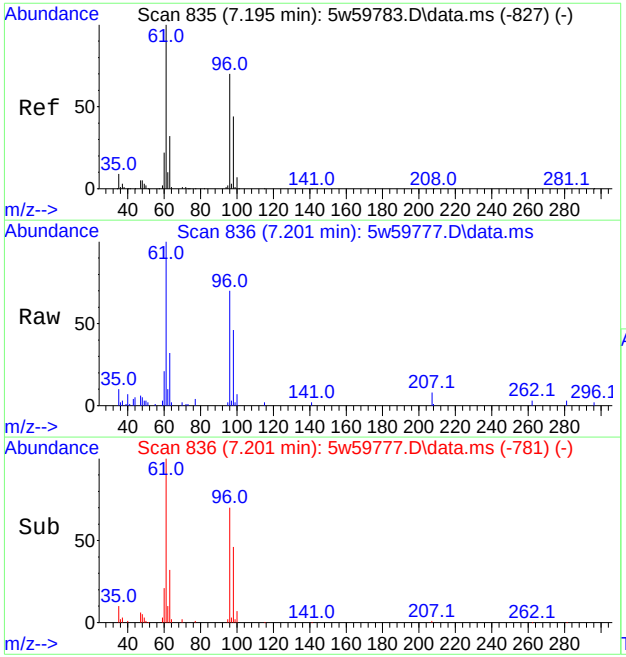


#41
METHYL ETHYL KETONE
Concen: 0.28 PPBV
RT: 6.859 min Scan# 780
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 72 Resp: 9022

Ion	Ratio	Lower	Upper
72	100		
57	34.2	4.8	64.8
43	439.2	415.9	475.9

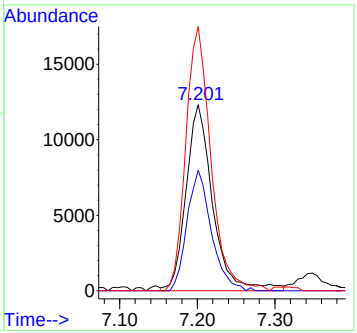


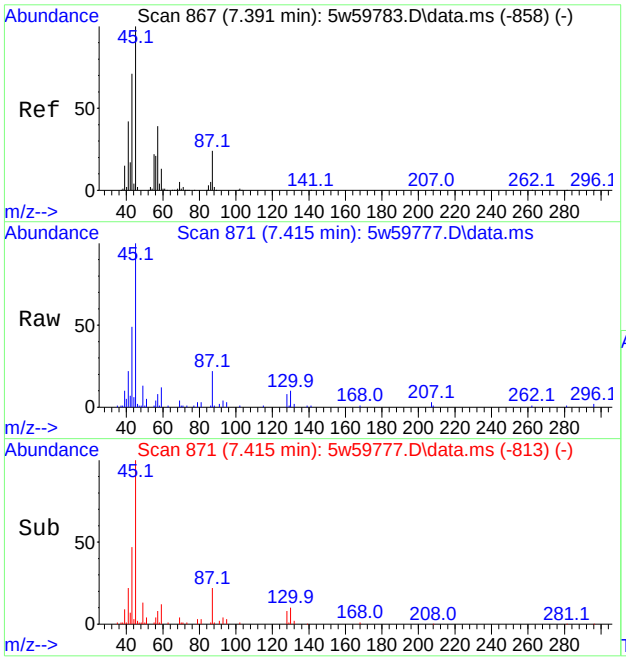


#42
cis-1,2-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 96 Resp: 29380

Ion	Ratio	Lower	Upper
96	100		
98	59.0	34.0	94.0
61	133.9	111.5	171.5

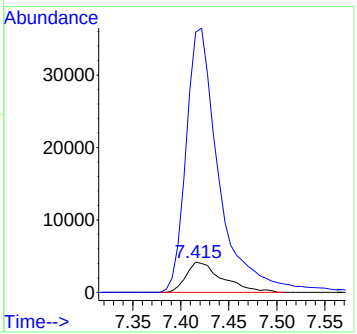


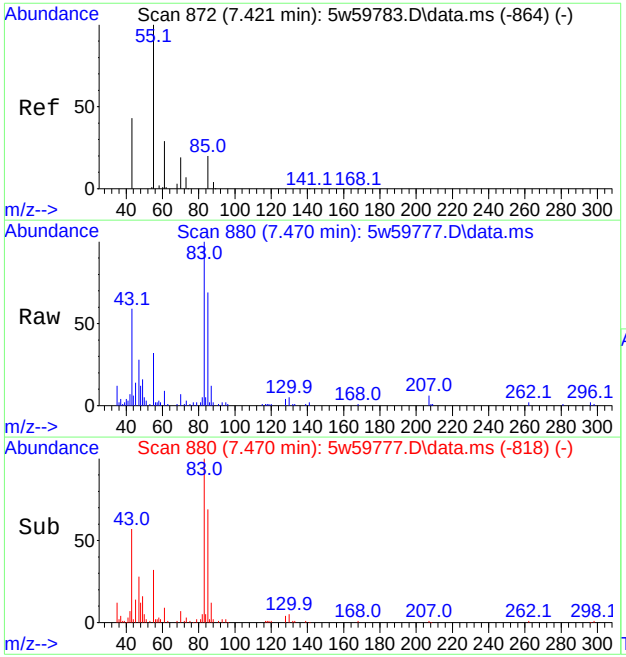


#43
DIISOPROPYL ETHER
Concen: 0.31 PPBV
RT: 7.415 min Scan# 871
Delta R.T. 0.024 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 59 Resp: 10994

Ion	Ratio	Lower	Upper
59	100		
45	807.5	720.9	780.9#

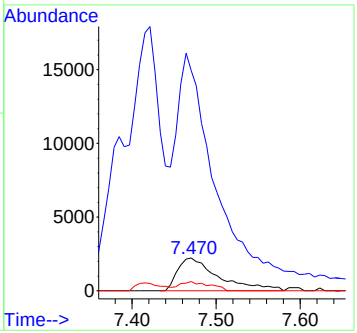


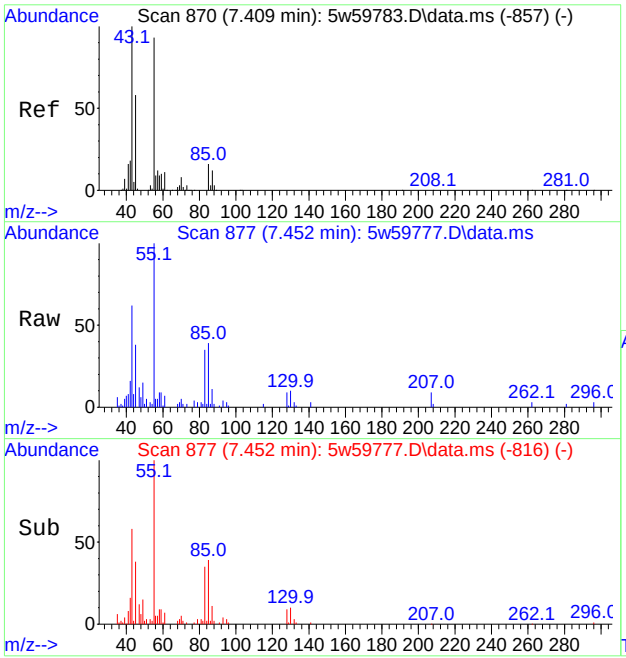


#44
ETHYL ACETATE
Concen: 0.29 PPBV
RT: 7.470 min Scan# 880
Delta R.T. 0.049 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 61 Resp: 7547

Ion	Ratio	Lower	Upper
61	100		
43	674.6	560.5	620.5#
88	20.6	4.5	64.5

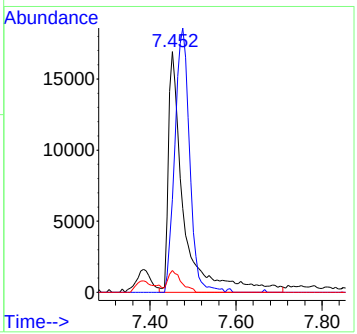


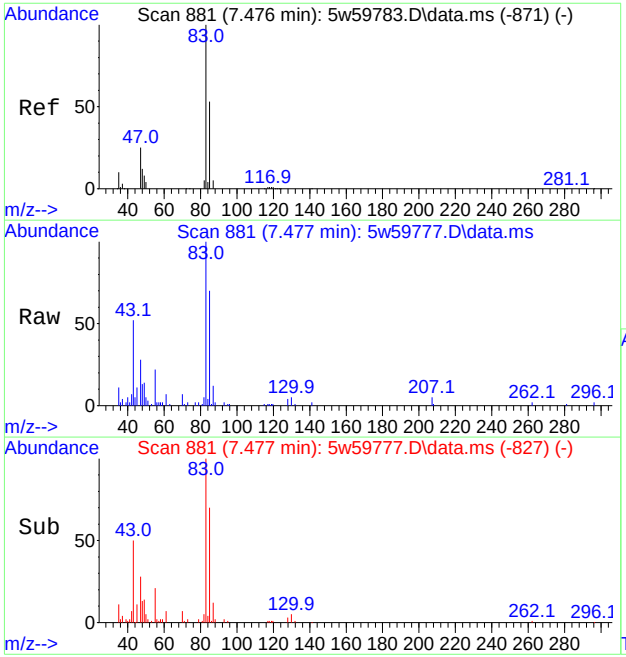


#45
METHYL ACRYLATE
Concen: 0.30 PPBV m
RT: 7.452 min Scan# 877
Delta R.T. 0.043 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 42153

Ion	Ratio	Lower	Upper
55	100		
85	0.0	10.9	20.3#
58	6.0	9.4	17.6#

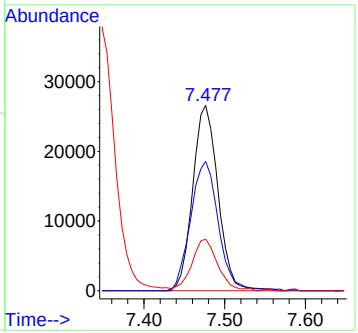


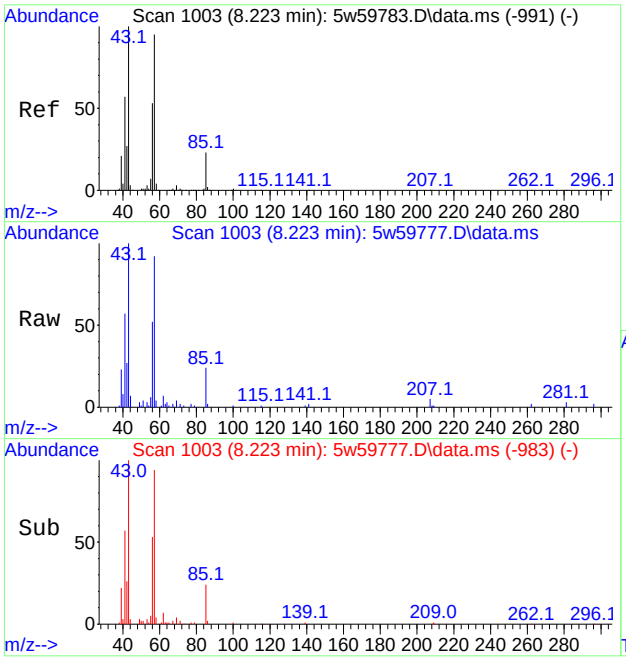


#46
CHLOROFORM
Concen: 0.34 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 58038

Ion	Ratio	Lower	Upper
83	100		
85	76.4	35.6	95.6
47	28.3	0.0	55.2

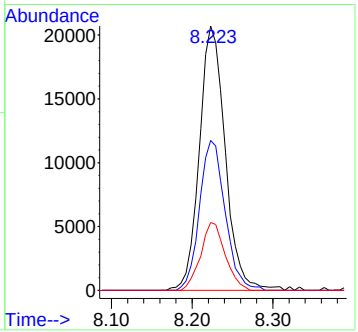


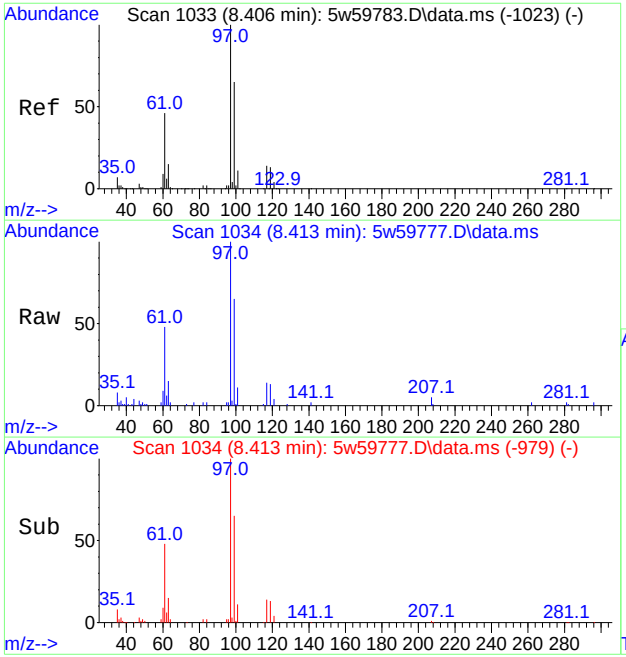


#47
2,4-DIMETHYLPENTANE
Concen: 0.34 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 46136

Ion	Ratio	Lower	Upper
57	100		
56	56.2	26.5	86.5
85	24.4	0.0	53.8

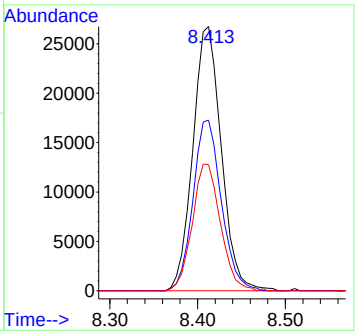


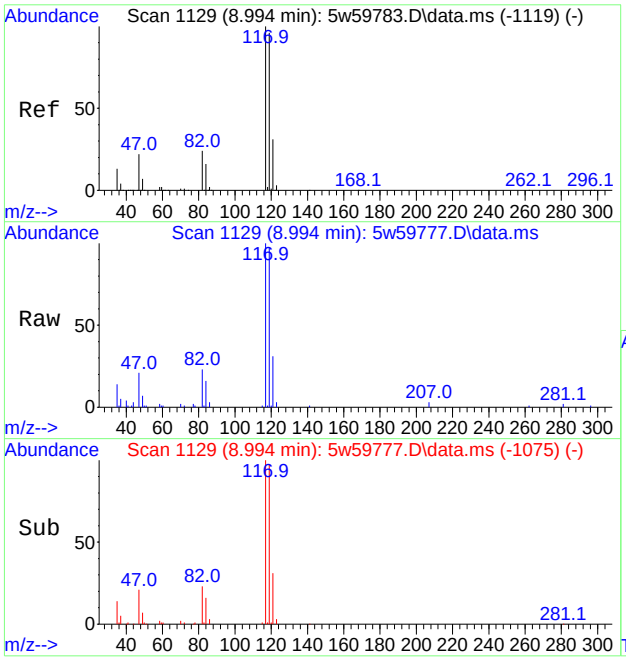


#48
1,1,1-TRICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 97 Resp: 60433

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.8	94.8
61	47.5	15.8	75.8

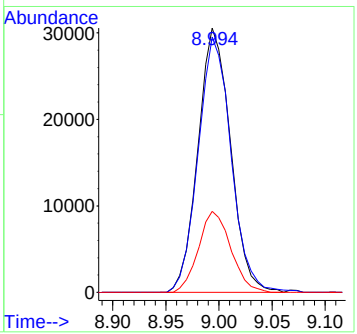


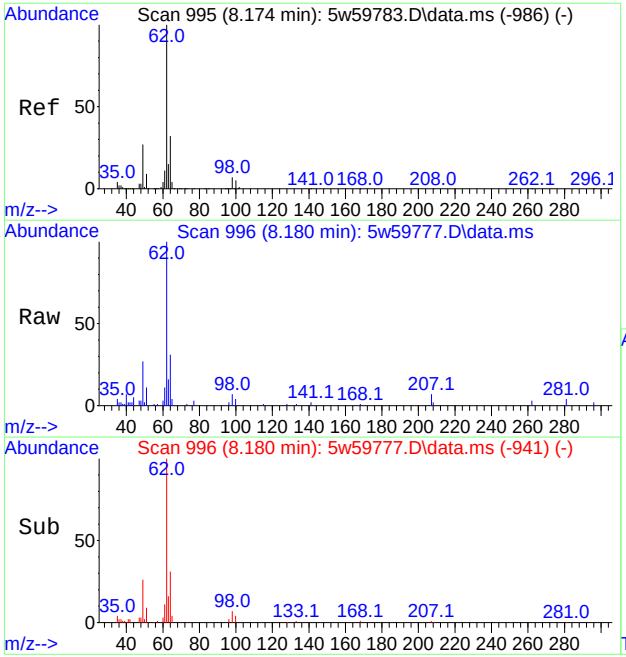


#49
CARBON TETRACHLORIDE
Concen: 0.33 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 65062

Ion	Ratio	Lower	Upper
117	100		
119	98.1	66.9	126.9
121	30.5	1.3	61.3

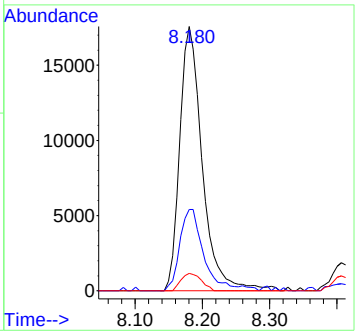


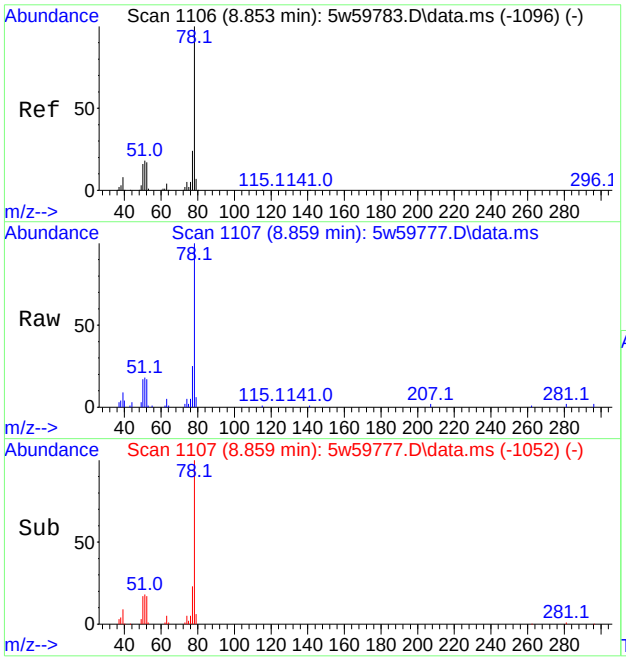


#50
1,2-DICHLOROETHANE
Concen: 0.34 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 62 Resp: 41098

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	5.9	0.0	36.9

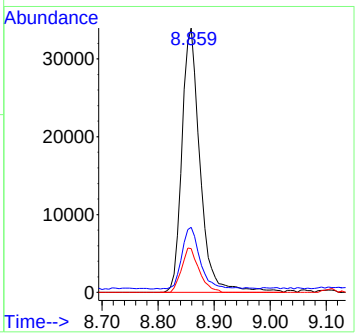


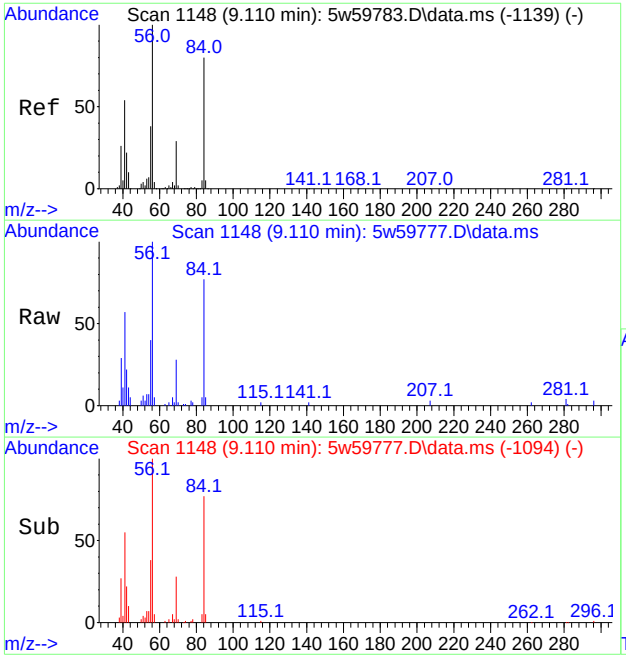


#52
BENZENE
Concen: 0.34 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 78 Resp: 76538

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.8
52	16.1	0.0	46.9

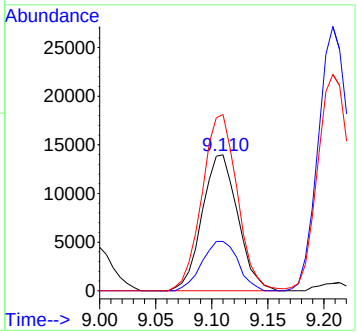


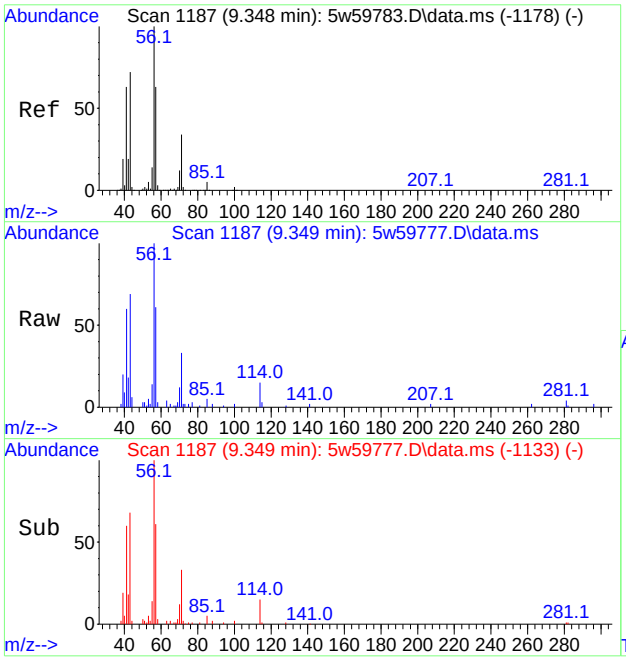


#53
CYCLOHEXANE
Concen: 0.34 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 84 Resp: 30877

Ion	Ratio	Lower	Upper
84	100		
69	37.0	6.9	66.9
56	128.6	98.2	158.2

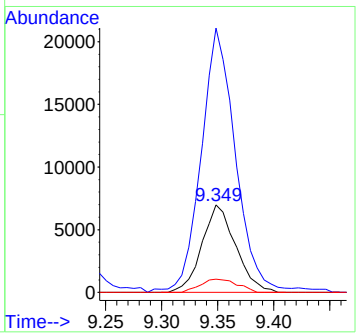


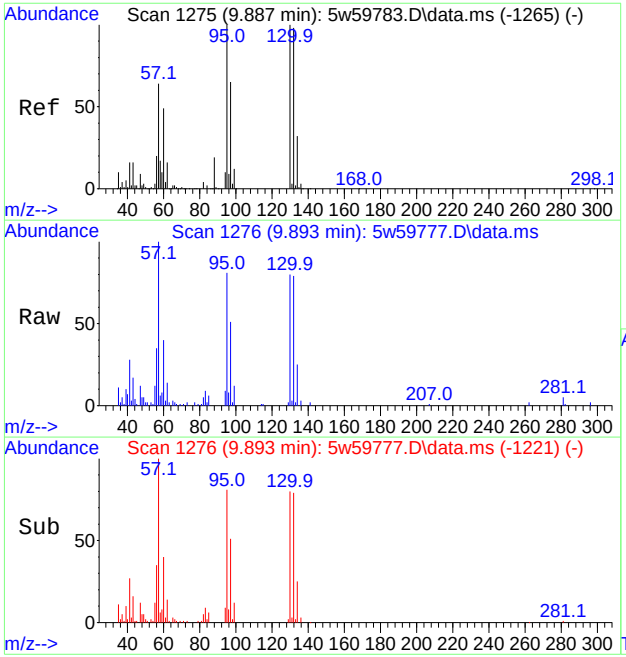


#54
2,3-DIMETHYLPENTANE
Concen: 0.32 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 71 Resp: 14658

Ion	Ratio	Lower	Upper
71	100		
56	309.7	264.6	324.6
85	16.6	0.0	45.3

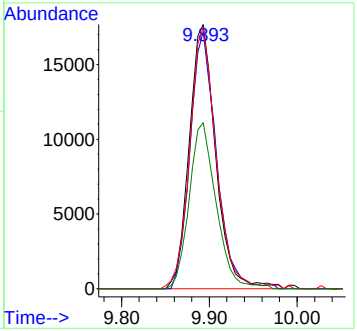


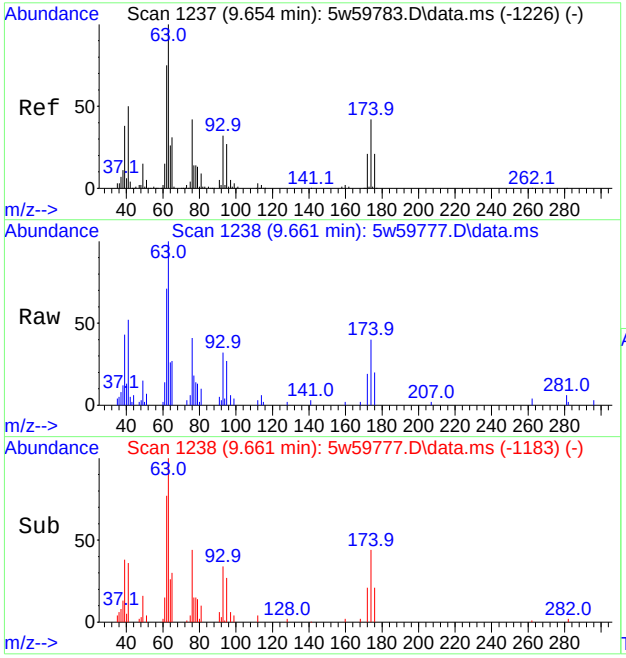


#55
TRICHLOROETHYLENE
Concen: 0.32 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 95 Resp: 37369

Ion	Ratio	Lower	Upper
95	100		
132	96.2	69.0	129.0
130	98.7	70.6	130.6
97	63.6	34.6	94.6

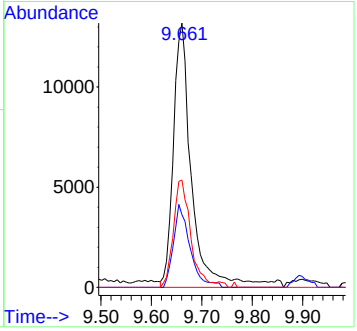


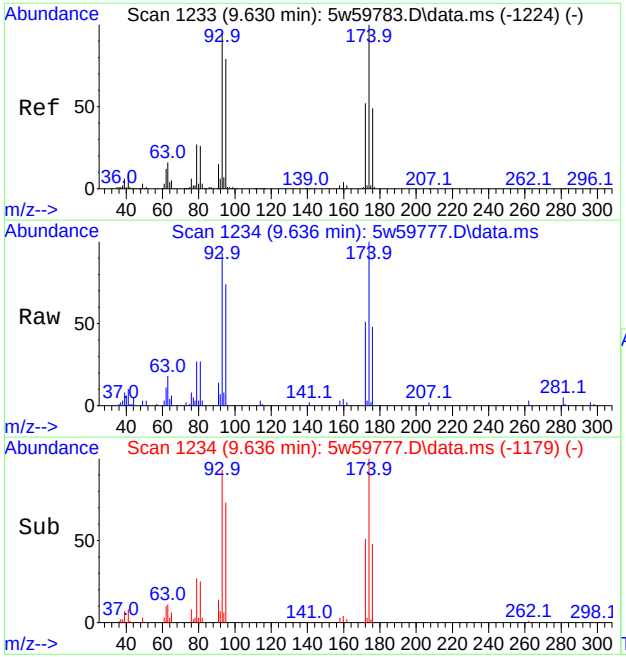


#56
1,2-DICHLOROPROPANE
Concen: 0.35 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 63 Resp: 33377

Ion	Ratio	Lower	Upper
63	100		
65	28.2	0.5	60.5
76	39.1	11.5	71.5

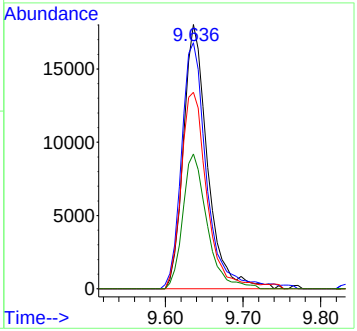


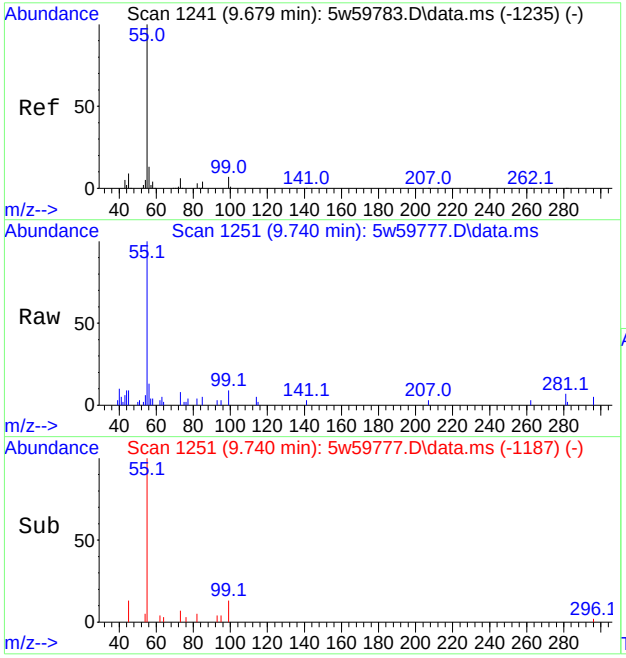


#57
DIBROMOMETHANE
Concen: 0.31 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:174 Resp: 39103

Ion	Ratio	Lower	Upper
174	100		
93	97.7	65.0	120.6
95	80.0	54.5	101.1
172	51.2	36.3	67.5

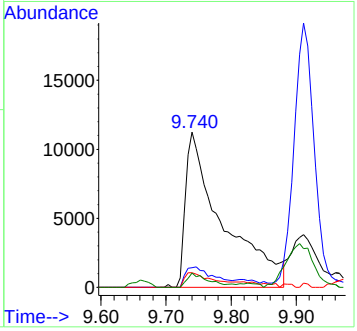


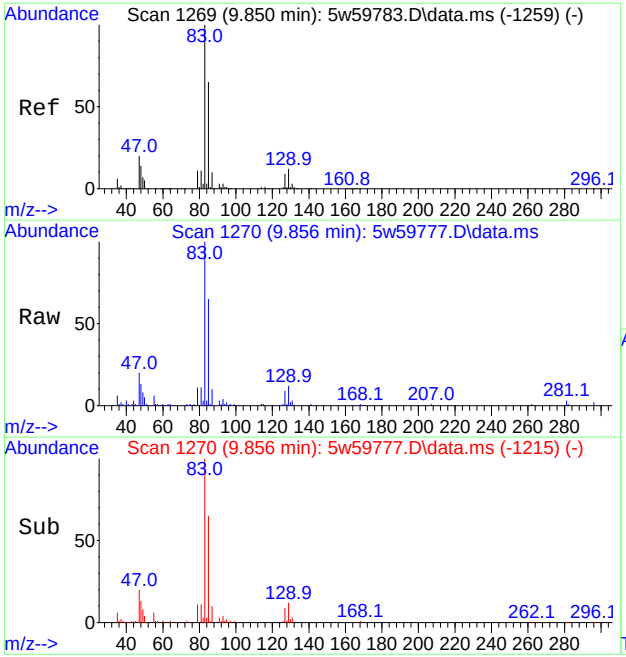


#58
ETHYL ACRYLATE
Concen: 0.25 PPBV
RT: 9.740 min Scan# 1251
Delta R.T. 0.061 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 55 Resp: 44771

Ion	Ratio	Lower	Upper
55	100		
56	13.8	8.6	16.0
45	9.9	6.6	12.2
99	6.9	6.4	12.0

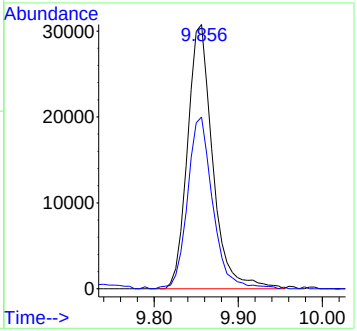


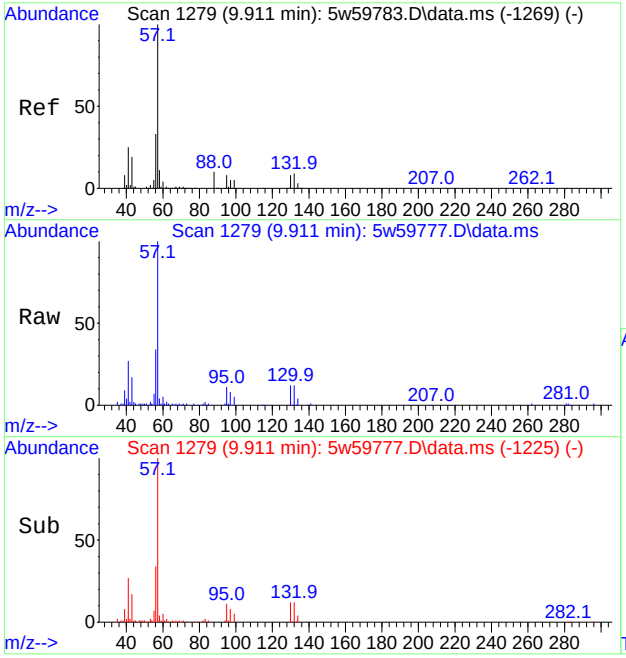


#59
BROMODICHLOROMETHANE
Concen: 0.31 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 64038

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

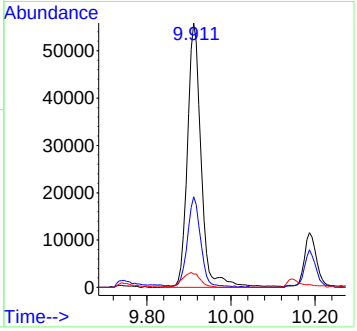


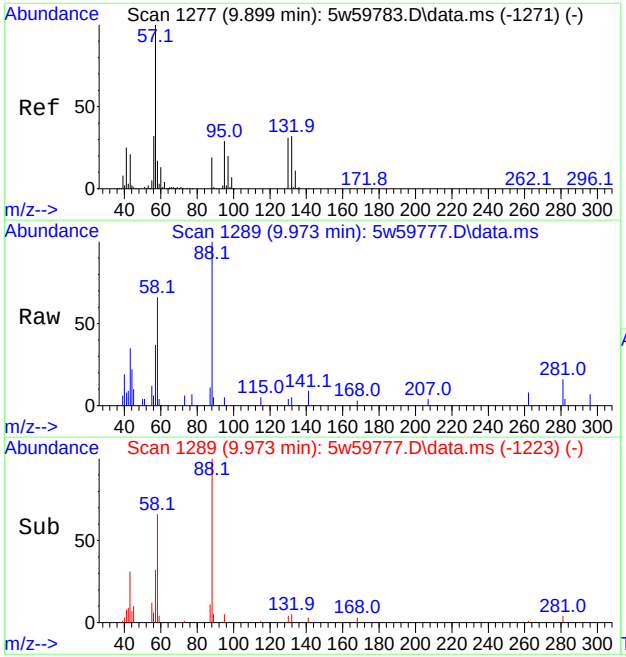


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.35 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 57 Resp: 127085

Ion	Ratio	Lower	Upper
57	100		
56	33.3	2.5	62.5
99	7.3	0.0	37.3

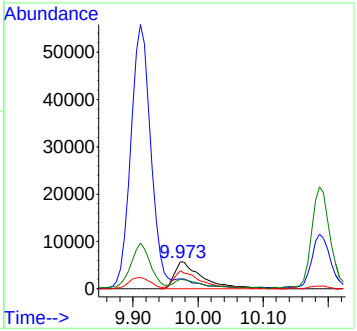


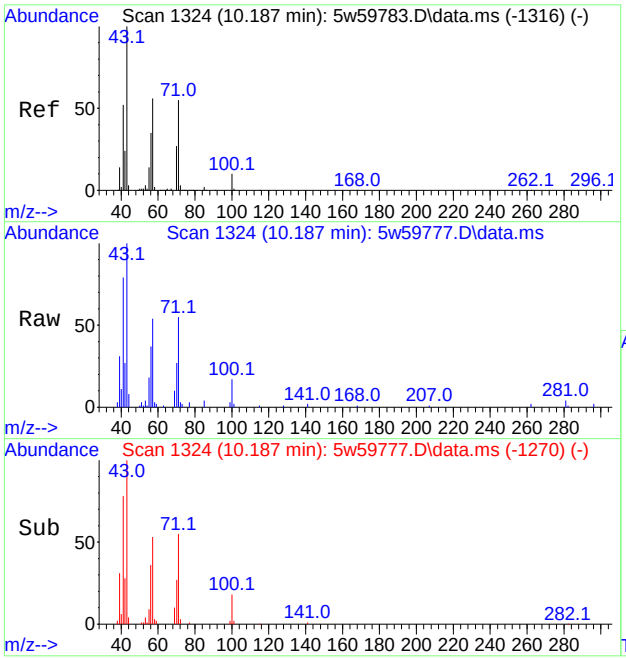


#61
1,4-DIOXANE
Concen: 0.32 PPBV
RT: 9.973 min Scan# 1289
Delta R.T. 0.074 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 88 Resp: 17043

Ion	Ratio	Lower	Upper
88	100		
57	36.5	494.2	554.2#
58	66.1	58.9	118.9
43	35.3	78.3	138.3#

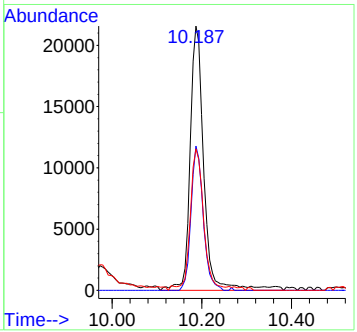


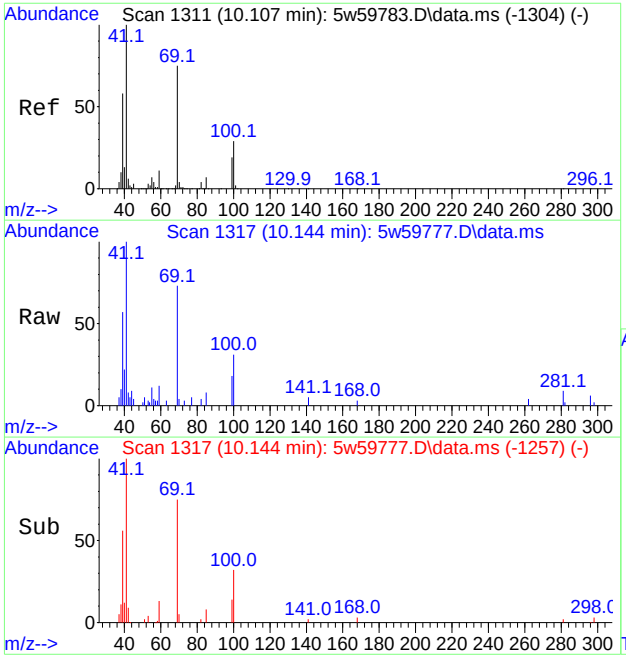


#62
HEPTANE
Concen: 0.38 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 45917

Ion	Ratio	Lower	Upper
43	100		
71	48.0	24.5	84.5
57	53.4	26.2	86.2

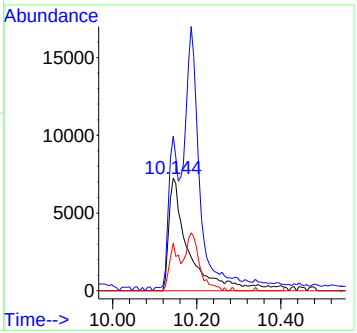


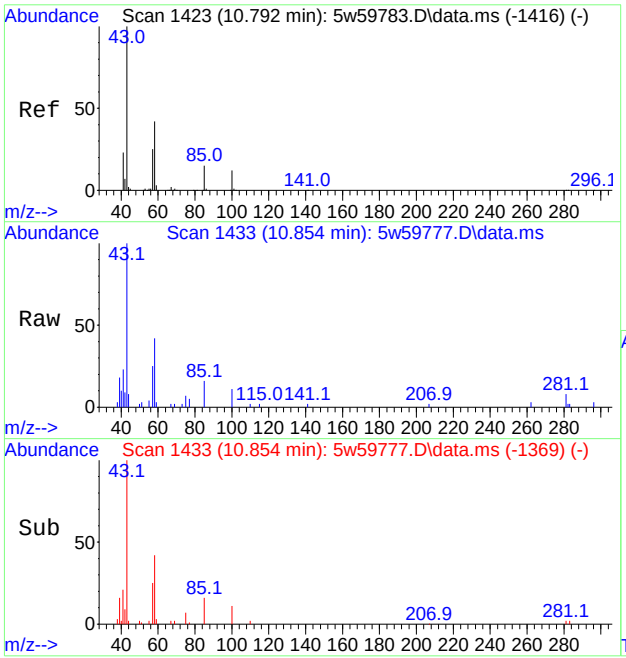


#63
METHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 10.144 min Scan# 1317
Delta R.T. 0.037 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 24229

Ion	Ratio	Lower	Upper
69	100		
41	73.7	95.3	155.3#
100	22.5	6.3	66.3

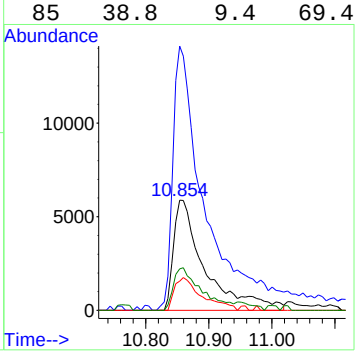


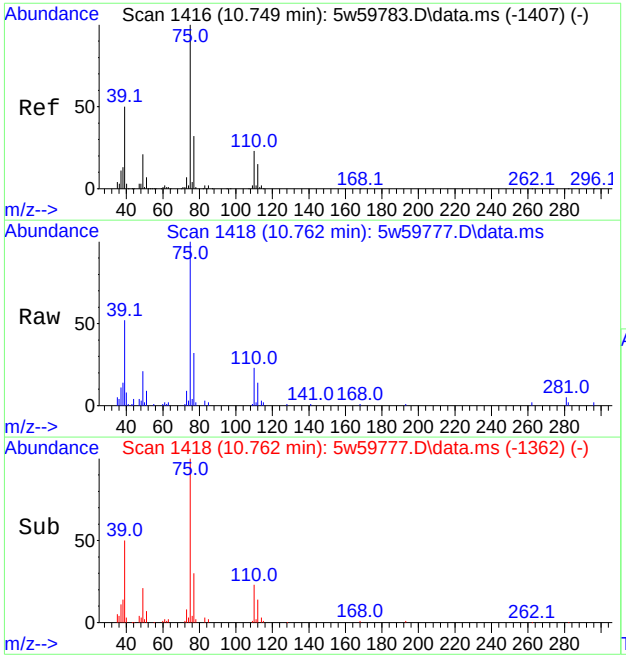


#64
METHYL ISOBUTYL KETONE
Concen: 0.27 PPBV
RT: 10.854 min Scan# 1433
Delta R.T. 0.062 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 20298

Ion	Ratio	Lower	Upper
58	100		
43	262.8	209.2	269.2
100	26.0	0.0	58.8
85	38.8	9.4	69.4

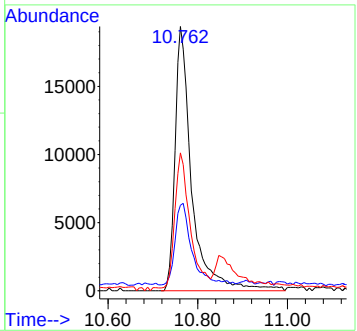


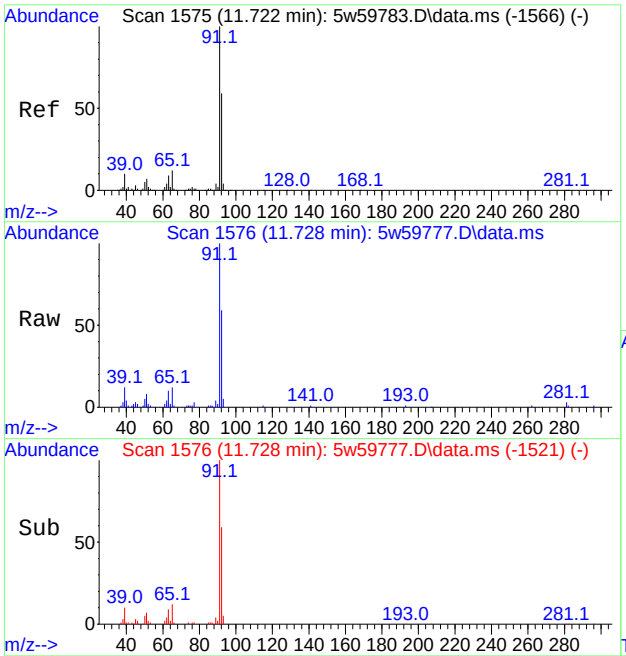


#65
cis-1,3-DICHLOROPROPENE
Concen: 0.32 PPBV
RT: 10.762 min Scan# 1418
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 50330

Ion	Ratio	Lower	Upper
75	100		
77	31.0	2.2	62.2
39	47.9	34.3	94.3

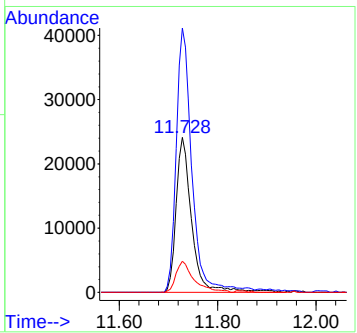


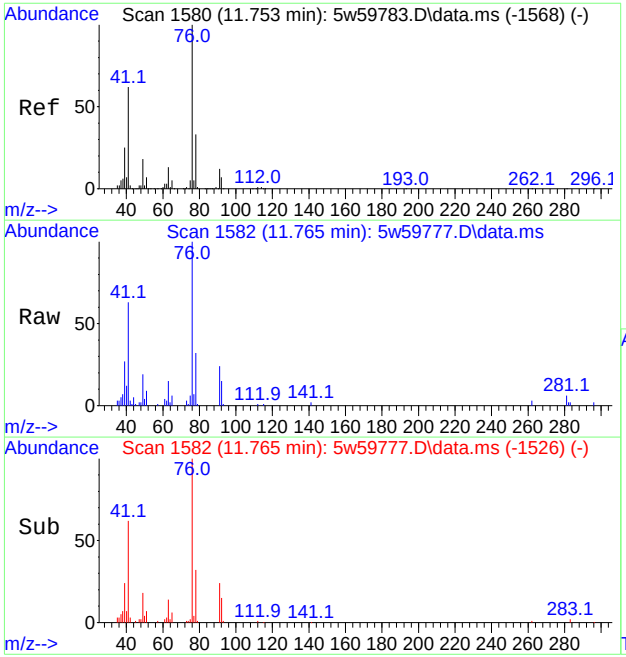


#66
TOLUENE
Concen: 0.31 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 92 Resp: 53175

Ion	Ratio	Lower	Upper
92	100		
91	174.5	140.1	200.1
65	23.0	0.0	53.1

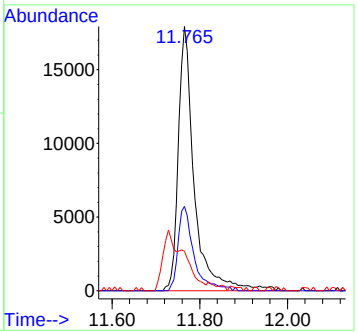


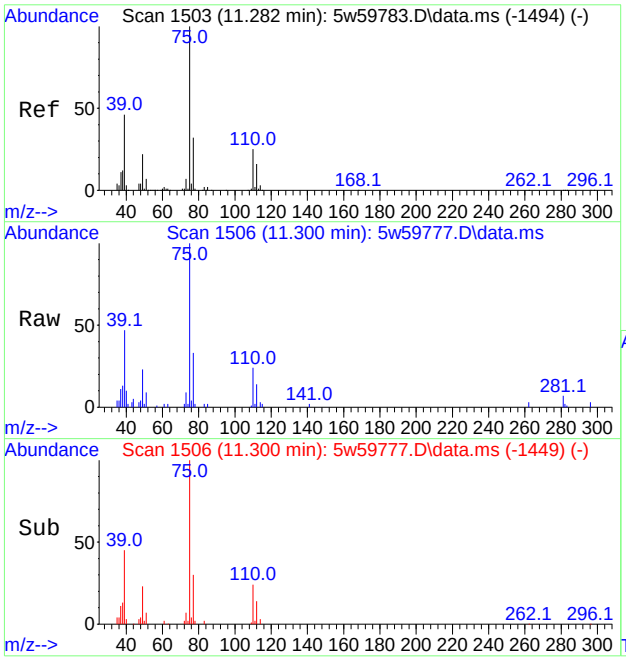


#67
1,3-DICHLOROPROPANE
Concen: 0.32 PPBV
RT: 11.765 min Scan# 1582
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 76 Resp: 45275

Ion	Ratio	Lower	Upper
76	100		
78	31.9	23.2	43.0
63	0.0	7.1	13.1#

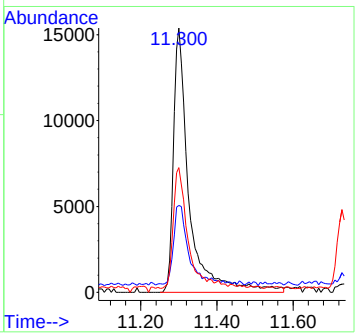


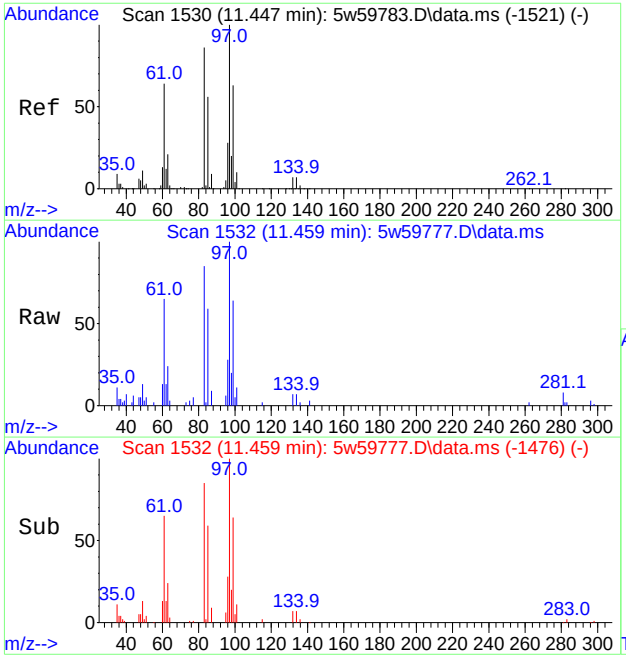


#68
trans-1,3-DICHLOROPROPENE
Concen: 0.30 PPBV
RT: 11.300 min Scan# 1506
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 44098

Ion	Ratio	Lower	Upper
75	100		
77	28.5	1.6	61.6
39	49.3	16.1	76.1

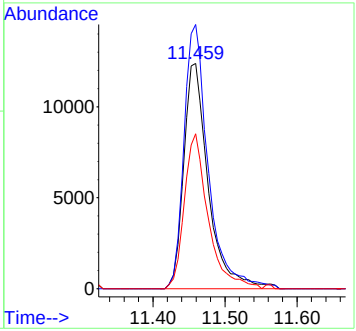


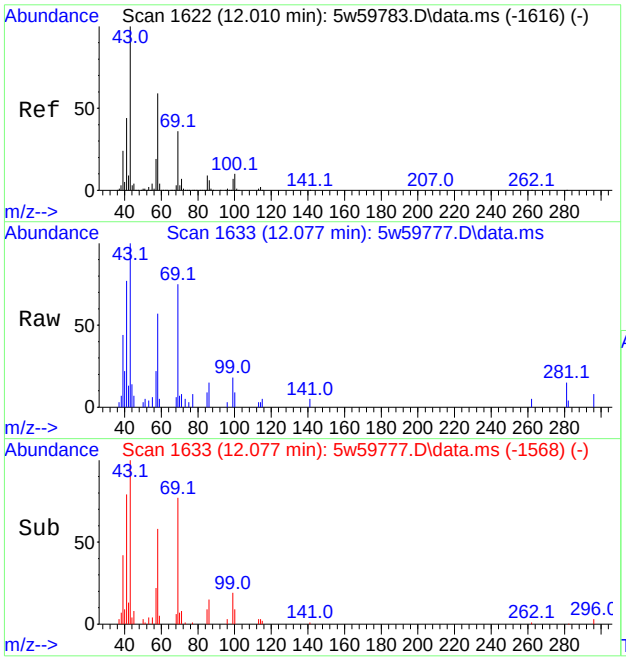


#69
1,1,2-TRICHLOROETHANE
Concen: 0.31 PPBV
RT: 11.459 min Scan# 1532
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 29376

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	66.8	35.3	95.3

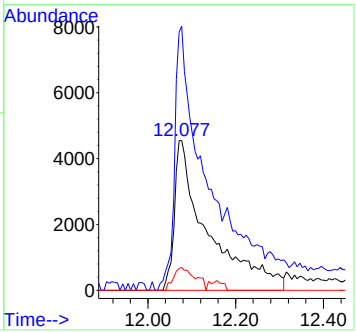


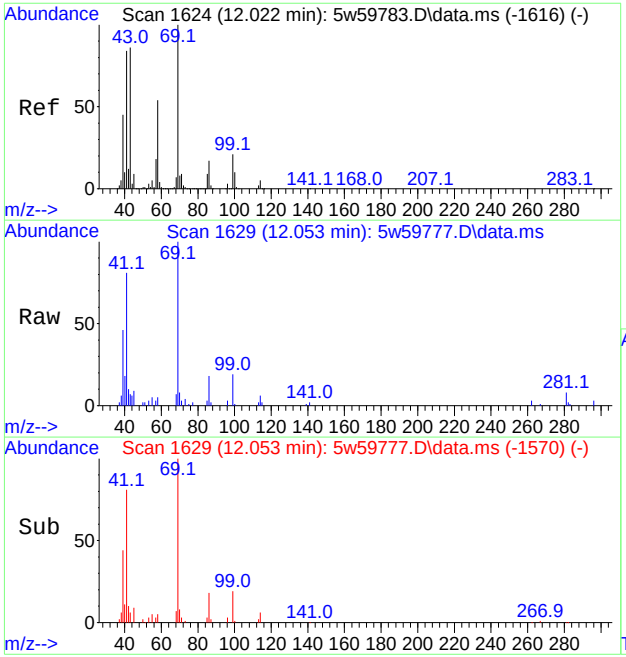


#71
2-HEXANONE
Concen: 0.25 PPBV
RT: 12.077 min Scan# 1633
Delta R.T. 0.067 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 58 Resp: 24053

Ion	Ratio	Lower	Upper
58	100		
43	181.6	137.2	197.2
100	9.8	0.0	46.9

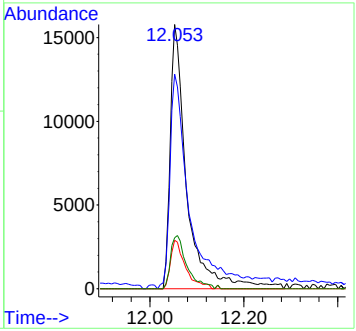


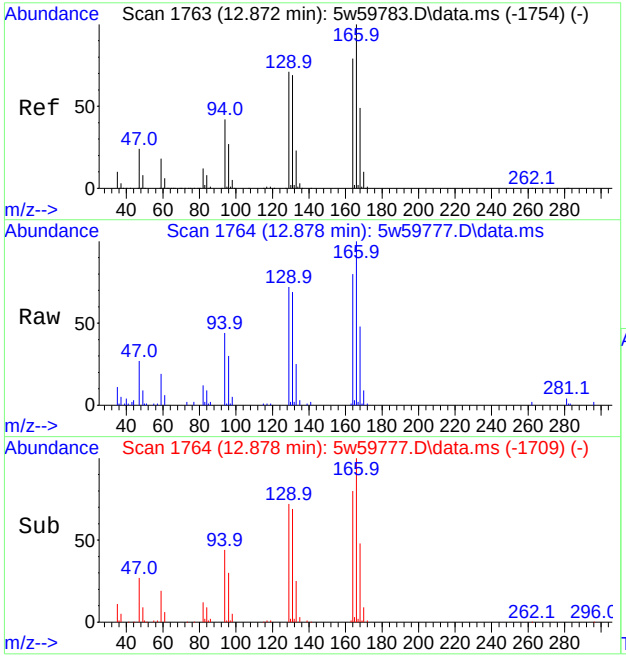


#72
ETHYL METHACRYLATE
Concen: 0.31 PPBV
RT: 12.053 min Scan# 1629
Delta R.T. 0.031 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 69 Resp: 39133

Ion	Ratio	Lower	Upper
69	100		
41	104.7	64.0	119.0
86	16.5	12.0	22.4
99	19.9	15.0	27.8

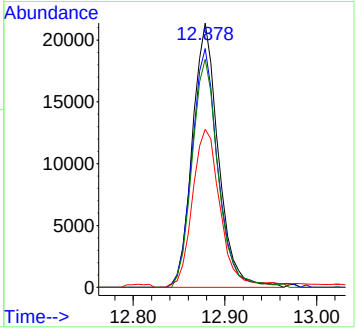


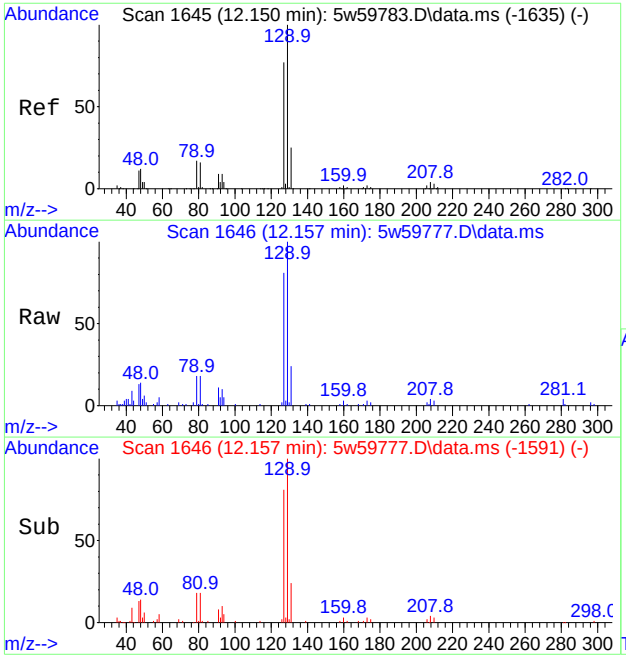


#73
TETRACHLOROETHYLENE
Concen: 0.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:164 Resp: 42039

Ion	Ratio	Lower	Upper
164	100		
129	92.1	59.7	119.7
168	67.5	32.2	92.2
131	87.3	57.8	117.8

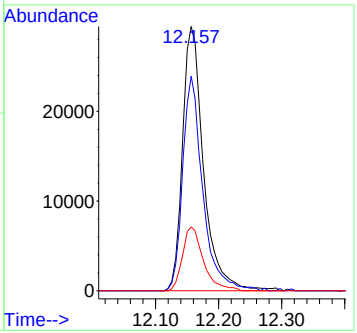


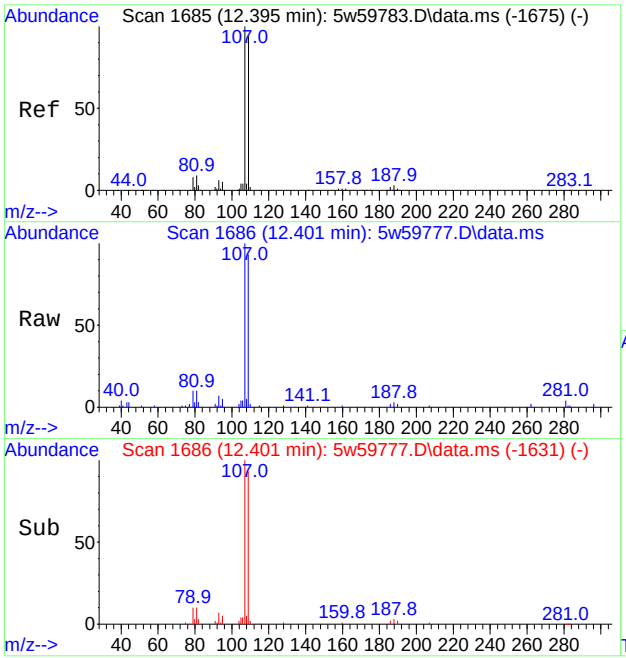


#74
DIBROMOCHLOROMETHANE
Concen: 0.33 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:129 Resp: 68347

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.0	0.0	54.5

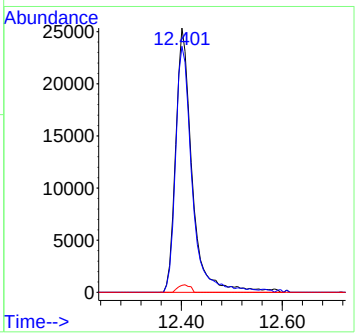


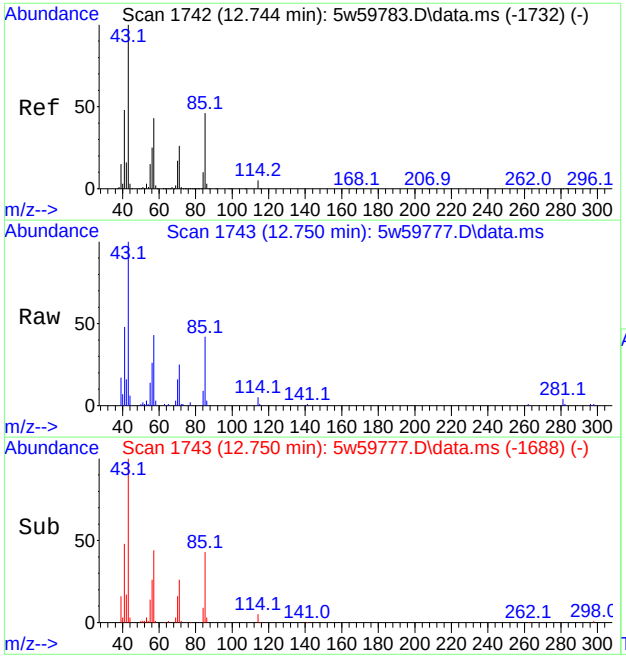


#75
1,2-DIBROMOETHANE
Concen: 0.36 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:107 Resp: 57560

Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.8	124.8
188	2.2	0.0	32.8

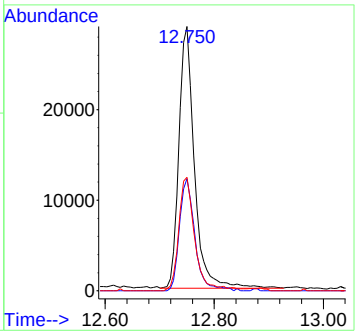


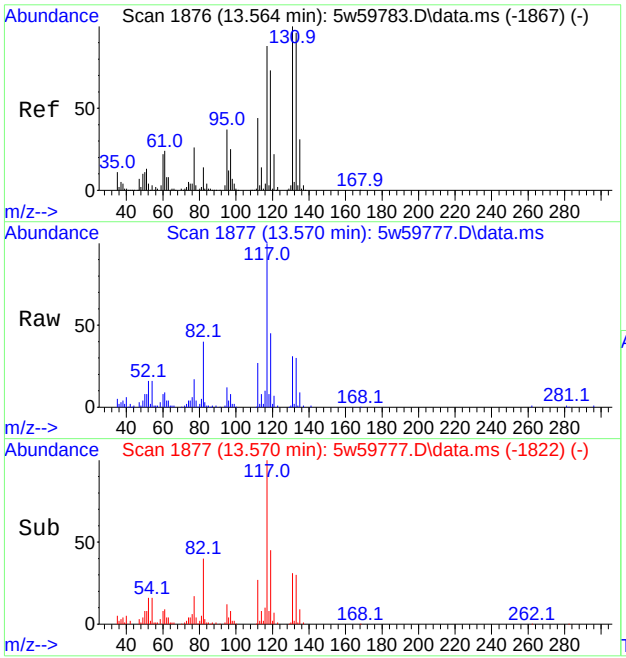


#76
OCTANE
Concen: 0.37 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 57196

Ion	Ratio	Lower	Upper
43	100		
85	42.4	14.6	74.6
57	45.8	13.7	73.7

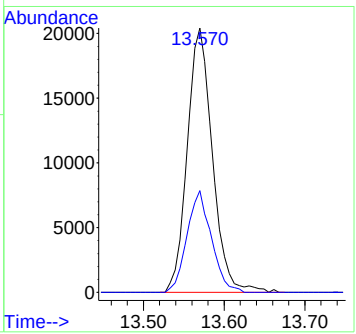


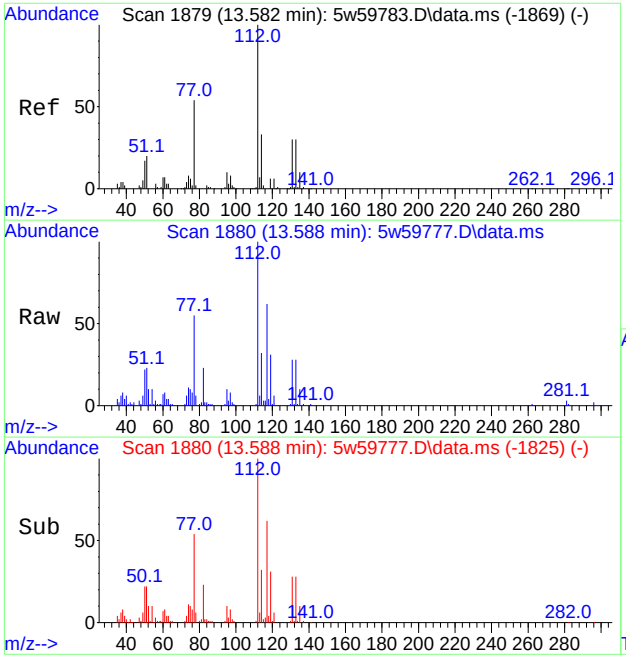


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.34 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:131 Resp: 44229

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

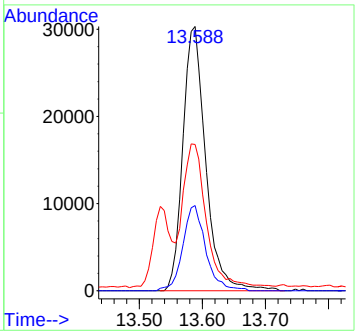


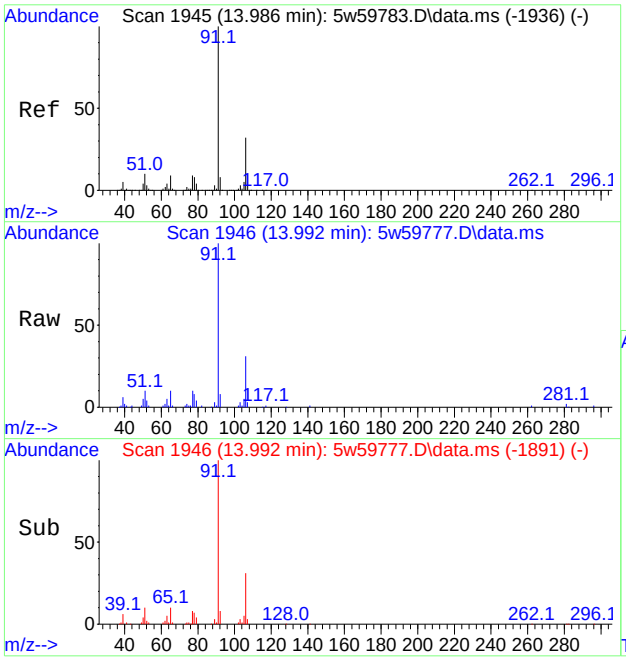


#78
CHLOROBENZENE
Concen: 0.36 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:112 Resp: 76482

Ion	Ratio	Lower	Upper
112	100		
114	32.3	2.6	62.6
77	54.6	25.4	85.4

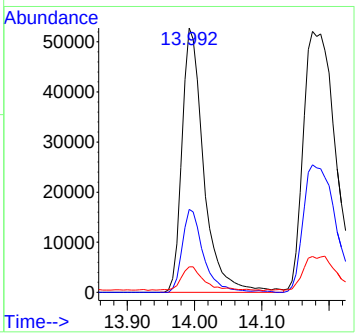


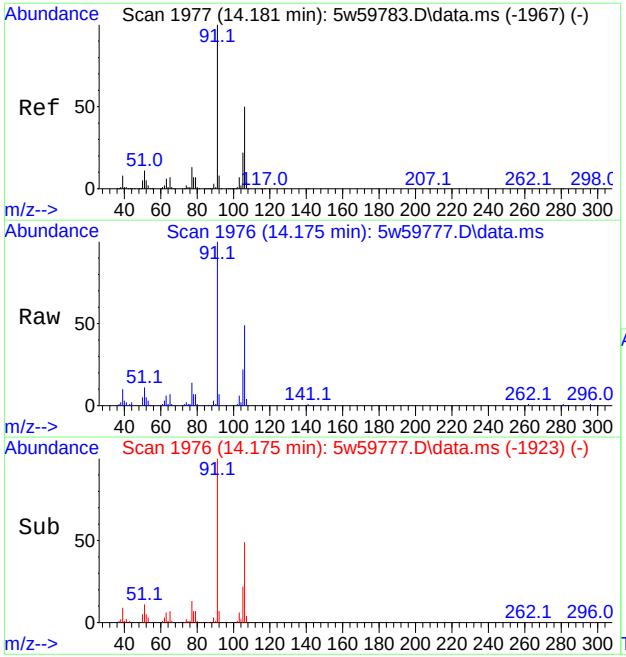


#79
ETHYLBENZENE
Concen: 0.37 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 119442

Ion	Ratio	Lower	Upper
91	100		
106	30.6	1.3	61.3
77	9.8	0.0	38.6

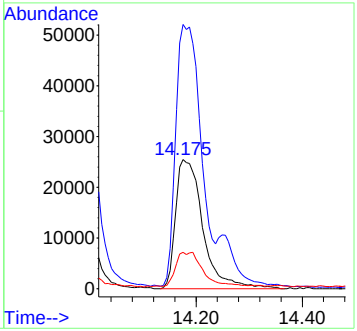


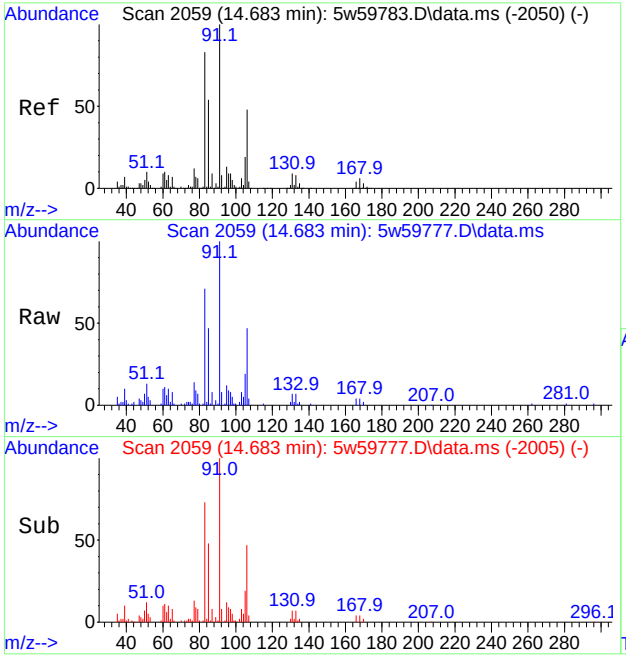


#80
m,p-XYLENE
Concen: 0.70 PPBV
RT: 14.175 min Scan# 1976
Delta R.T. -0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 91065

Ion	Ratio	Lower	Upper
106	100		
91	204.5	171.0	231.0
77	28.2	0.0	56.7

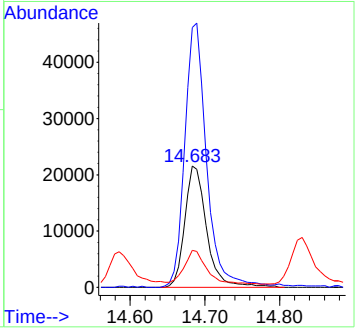


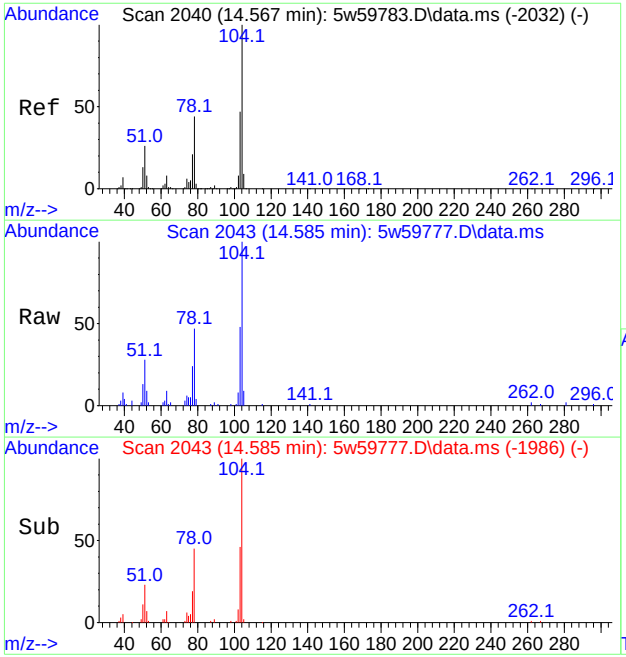


#81
o-XYLENE
Concen: 0.35 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:106 Resp: 43793

Ion	Ratio	Lower	Upper
106	100		
91	220.8	181.6	241.6
77	30.0	0.0	56.6

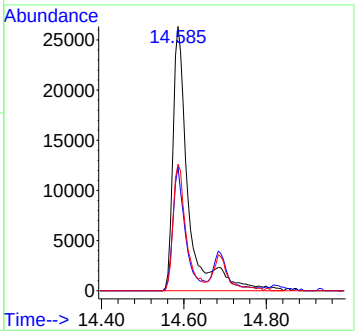


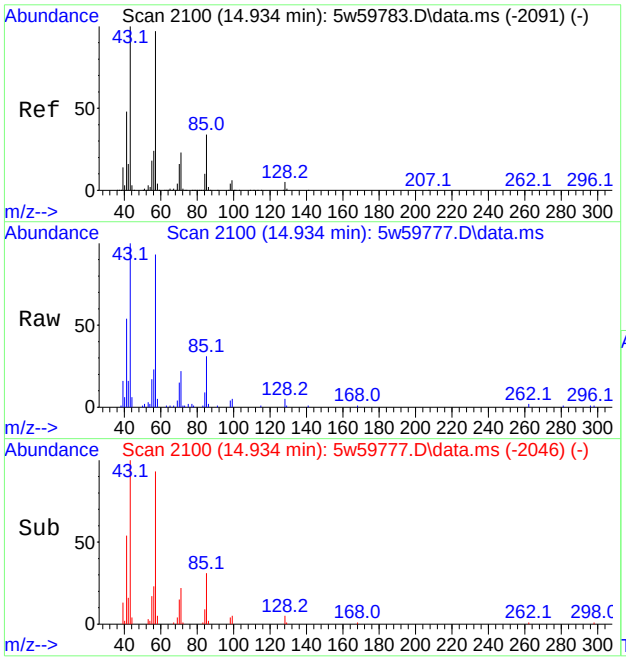


#82
STYRENE
Concen: 0.36 PPBV
RT: 14.585 min Scan# 2043
Delta R.T. 0.018 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:104 Resp: 68779

Ion	Ratio	Lower	Upper
104	100		
78	38.1	13.3	73.3
103	40.5	17.2	77.2

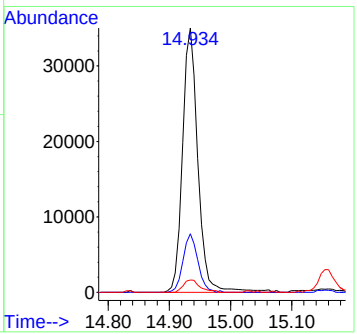


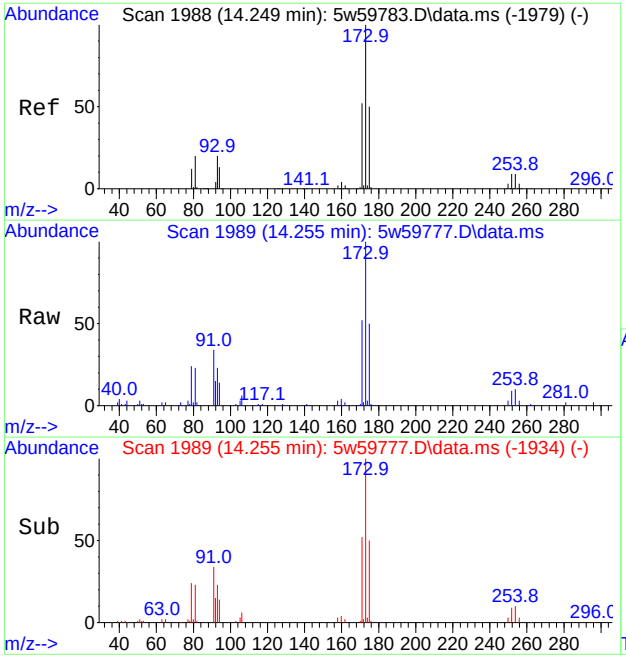


#83
NONANE
Concen: 0.39 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 43 Resp: 61419

Ion	Ratio	Lower	Upper
43	100		
71	21.3	0.0	52.7
128	5.1	0.0	34.7

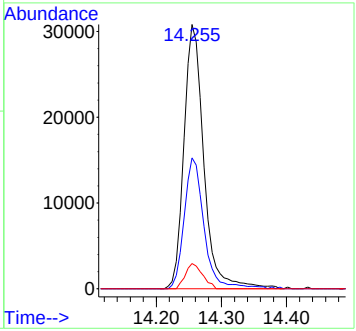


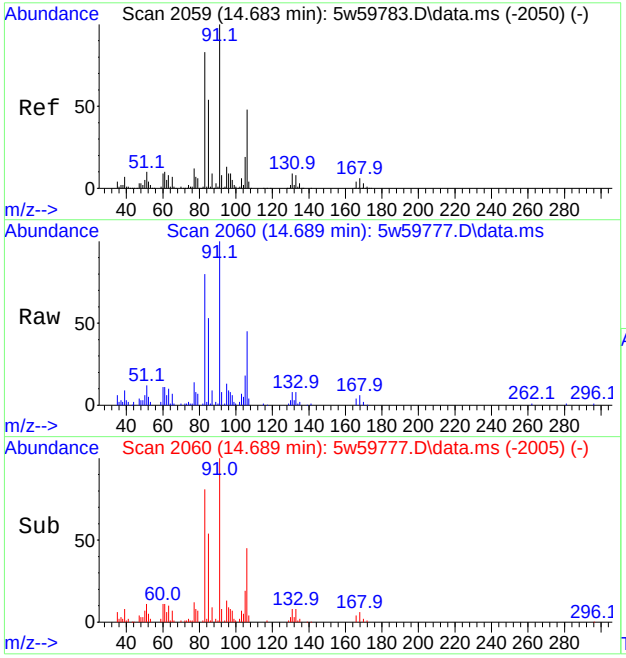


#84
BROMOFORM
Concen: 0.31 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:173 Resp: 65517

Ion	Ratio	Lower	Upper
173	100		
175	49.3	19.6	79.6
254	8.2	0.0	39.0

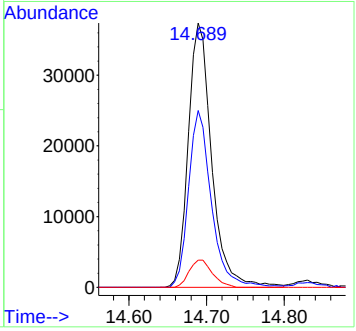


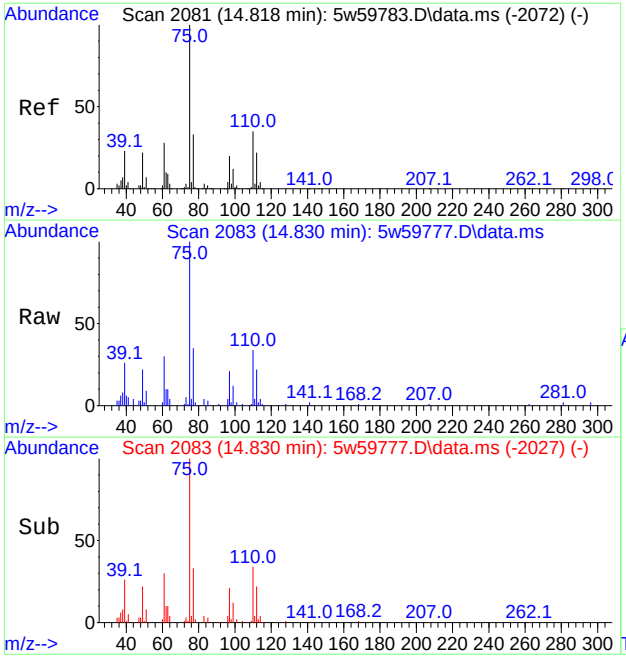


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 0.37 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 83 Resp: 78542

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.2	95.2
131	10.3	0.0	40.3

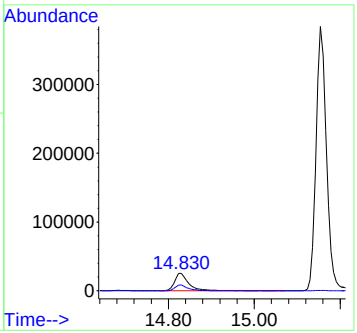


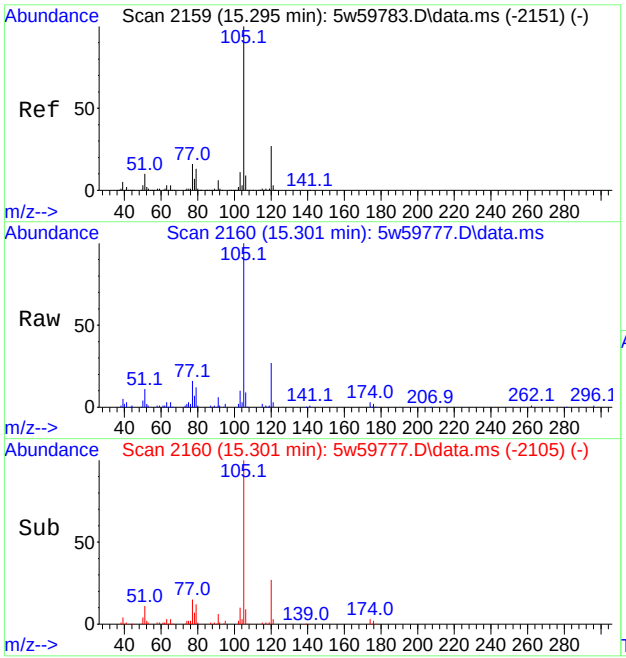


#87
1,2,3-TRICHLOROPROPANE
Concen: 0.37 PPBV
RT: 14.830 min Scan# 2083
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 75 Resp: 59513

Ion	Ratio	Lower	Upper
75	100		
110	30.7	4.4	64.4

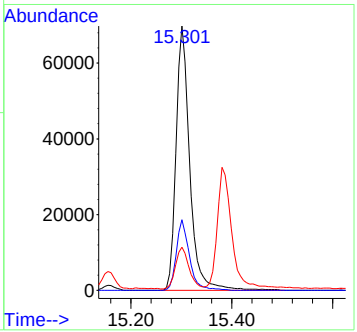


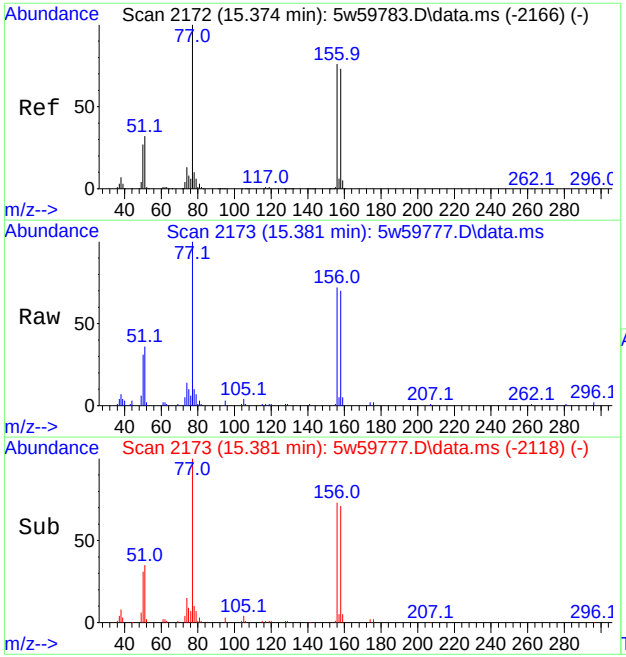


#88
ISOPROPYLBENZENE
Concen: 0.35 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 132085

Ion	Ratio	Lower	Upper
105	100		
120	25.5	0.0	56.0
77	15.4	0.0	45.6

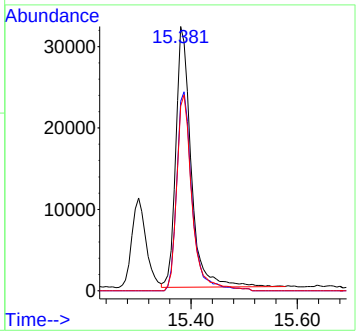


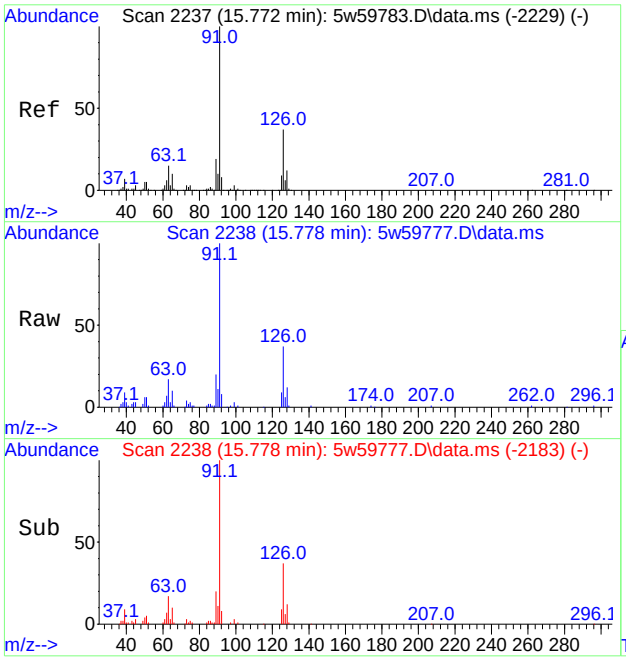


#89
BROMOBENZENE
Concen: 0.34 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.007 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 77 Resp: 64086

Ion	Ratio	Lower	Upper
77	100		
156	76.9	54.9	101.9
158	75.5	53.5	99.3

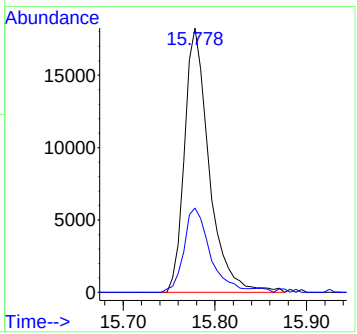


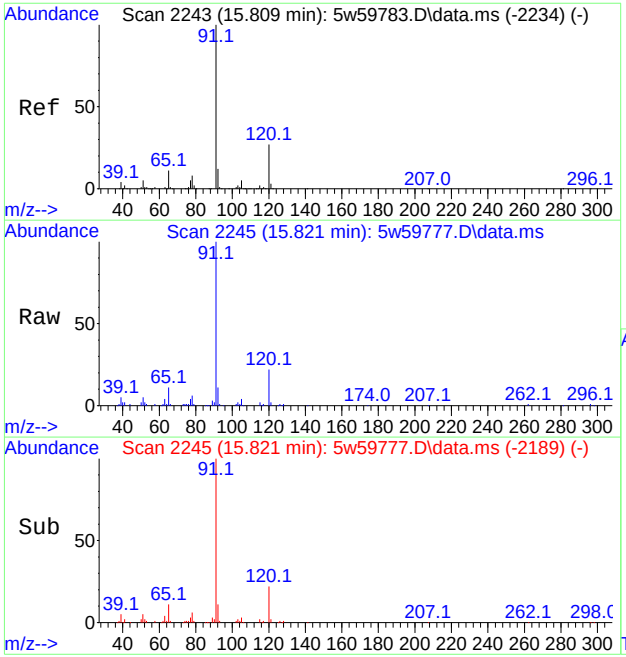


#90
2-CHLOROTOLUENE
Concen: 0.33 PPBV
RT: 15.778 min Scan# 2238
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:126 Resp: 34084

Ion	Ratio	Lower	Upper
126	100		
128	34.8	2.7	62.7

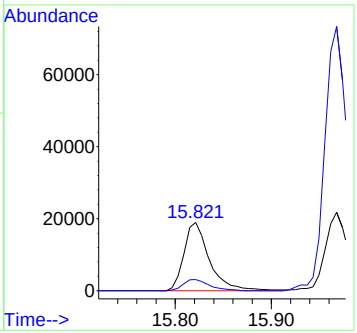


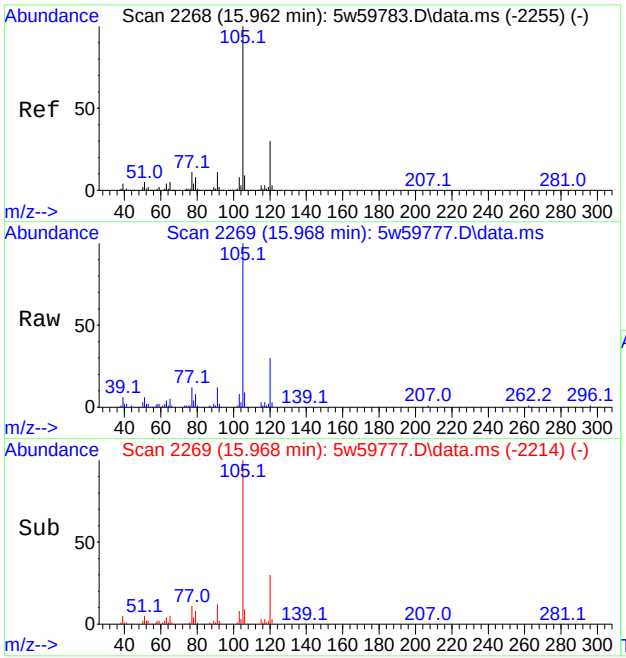


#91
n-PROPYLBENZENE
Concen: 0.34 PPBV
RT: 15.821 min Scan# 2245
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:120 Resp: 35058

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

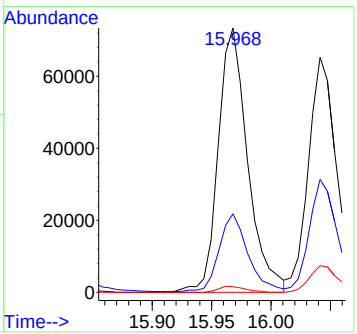


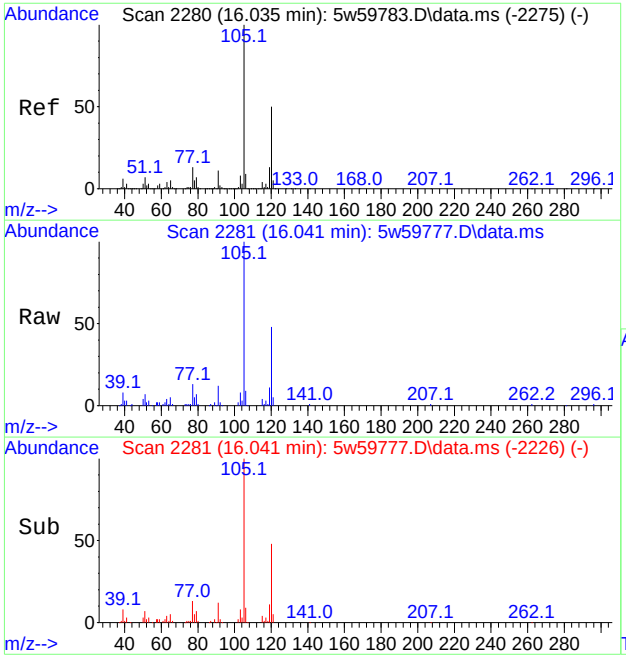


#92
4-ETHYLTOLUENE
Concen: 0.35 PPBV
RT: 15.968 min Scan# 2269
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 126699

Ion	Ratio	Lower	Upper
105	100		
120	29.4	0.0	59.9
119	2.1	0.0	32.3

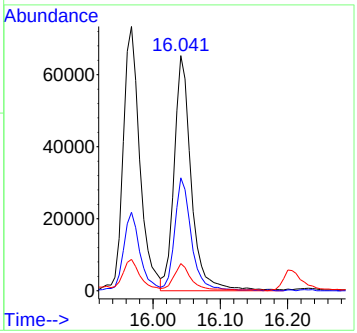


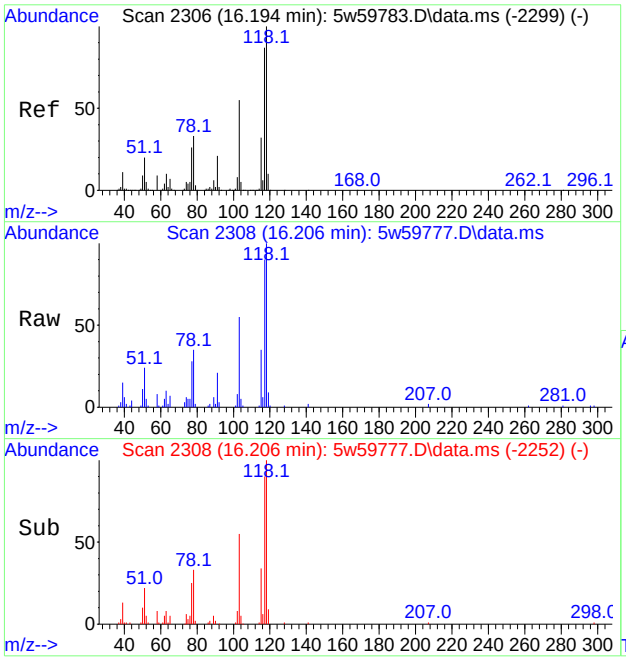


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.38 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 115870

Ion	Ratio	Lower	Upper
105	100		
120	47.0	19.4	79.4
91	12.8	0.0	40.8

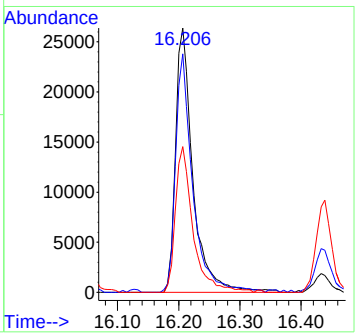


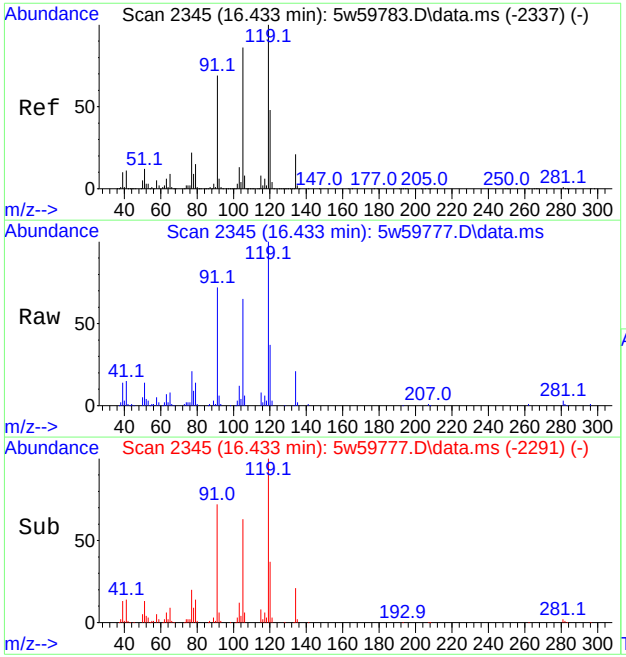


#94
ALPHA-METHYLSTYRENE
Concen: 0.31 PPBV
RT: 16.206 min Scan# 2308
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:118 Resp: 51966

Ion	Ratio	Lower	Upper
118	100		
117	89.3	60.9	113.1
103	55.9	38.6	71.8

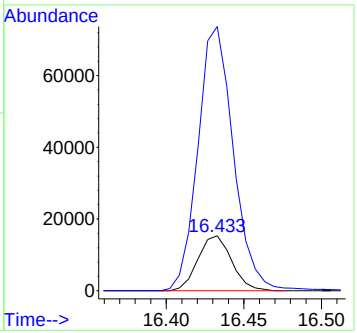


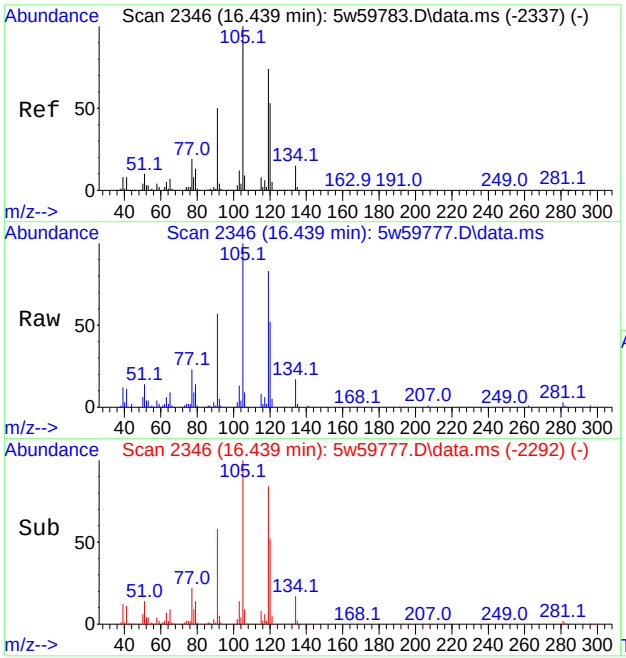


#95
tert-BUTYLBENZENE
Concen: 0.35 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 23128

Ion	Ratio	Lower	Upper
134	100		
119	509.5	459.3	519.3

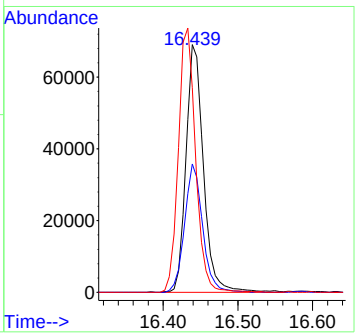


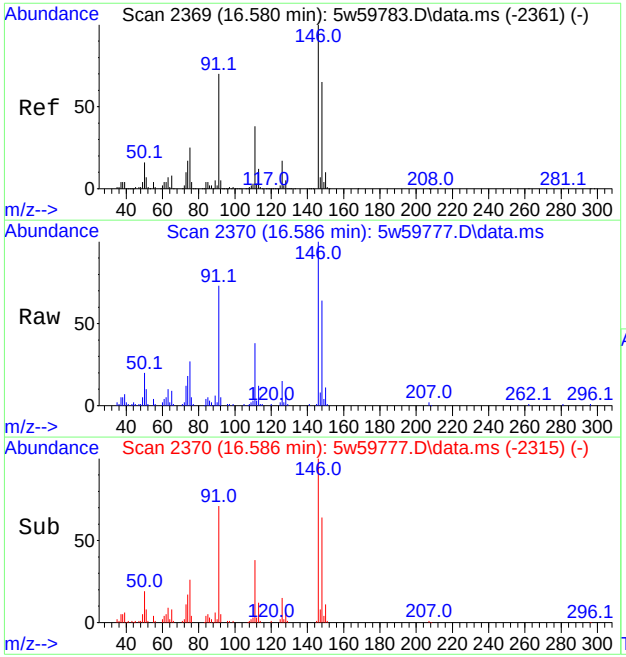


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 112549

Ion	Ratio	Lower	Upper
105	100		
120	53.3	25.7	85.7
119	104.7	75.7	135.7

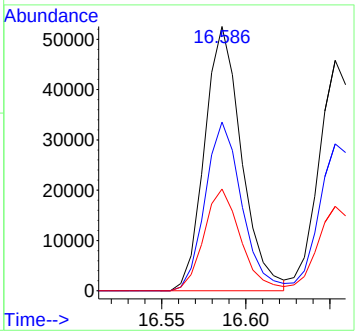


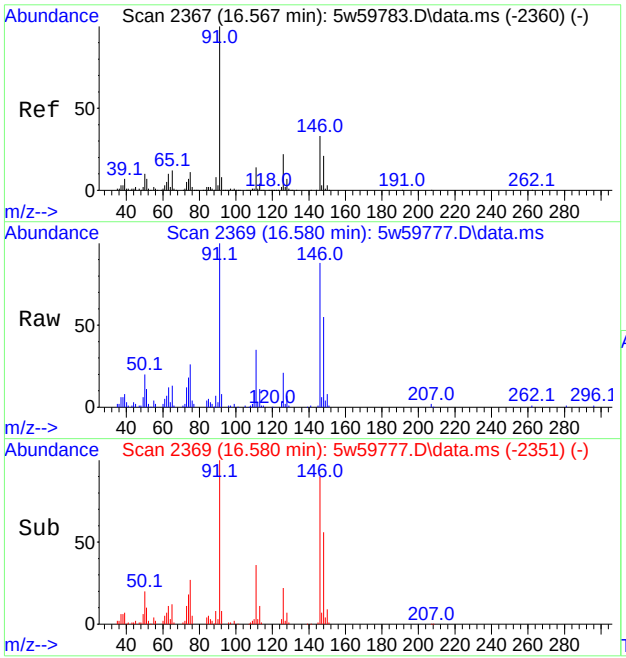


#97
m-DICHLOROBENZENE
Concen: 0.33 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 80323

Ion	Ratio	Lower	Upper
146	100		
148	63.5	34.8	94.8
111	38.5	8.2	68.2

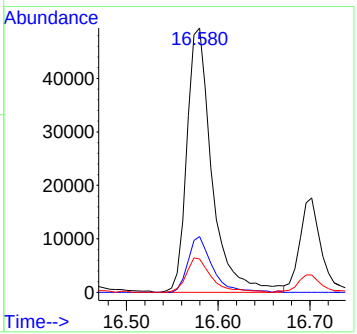


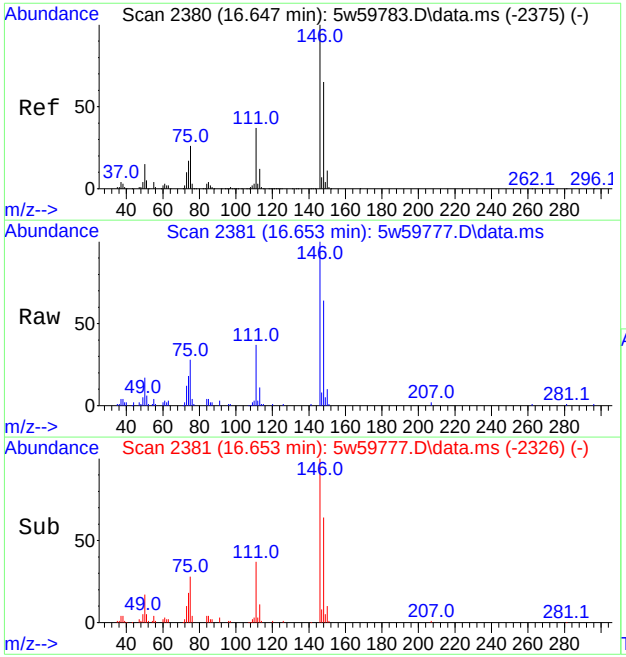


#98
BENZYL CHLORIDE
Concen: 0.31 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion: 91 Resp: 94193

Ion	Ratio	Lower	Upper
91	100		
126	20.4	0.0	51.7
65	13.1	0.0	42.2

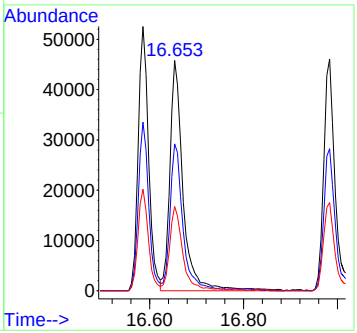


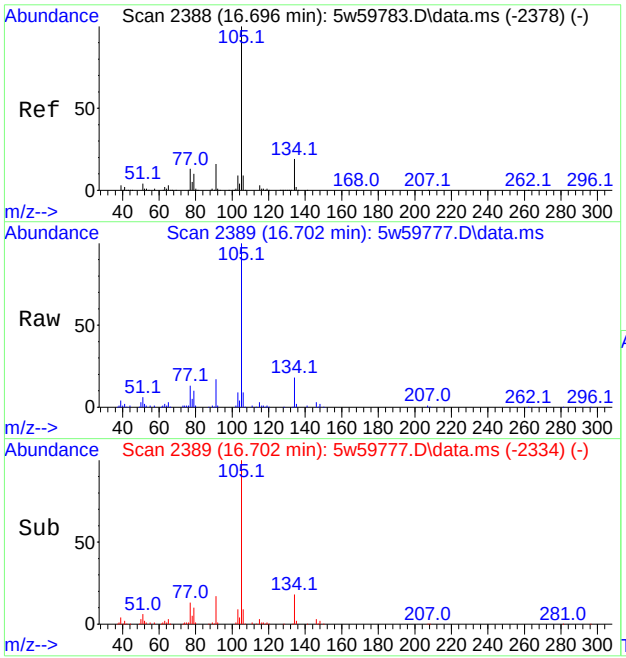


#99
p-DICHLOROBENZENE
Concen: 0.38 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 89982

Ion	Ratio	Lower	Upper
146	100		
148	63.9	34.6	94.6
111	37.0	6.7	66.7

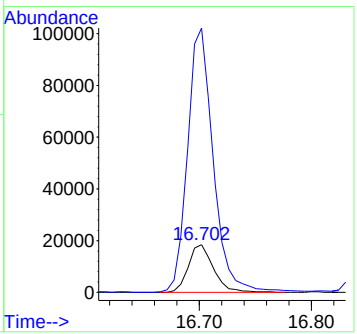


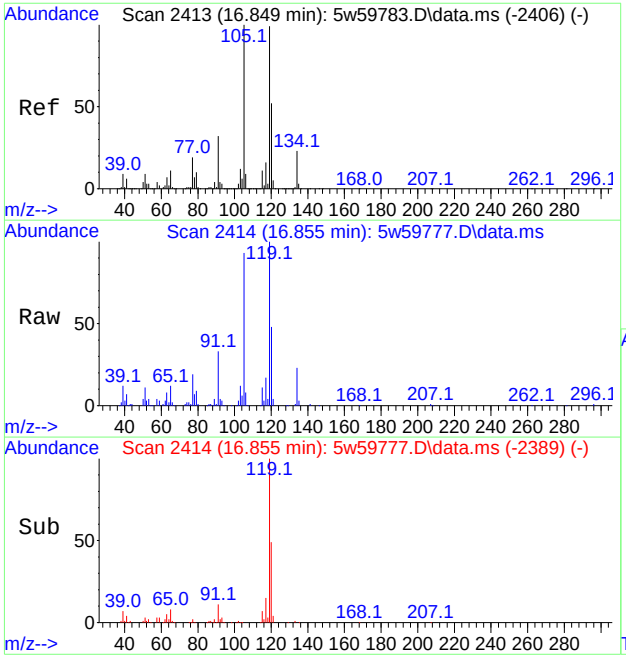


#100
sec-BUTYLBENZENE
Concen: 0.34 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 28746

Ion	Ratio	Lower	Upper
134	100		
105	570.2	502.5	562.5#

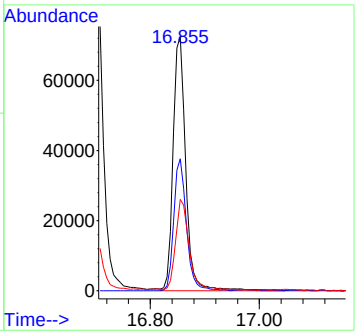


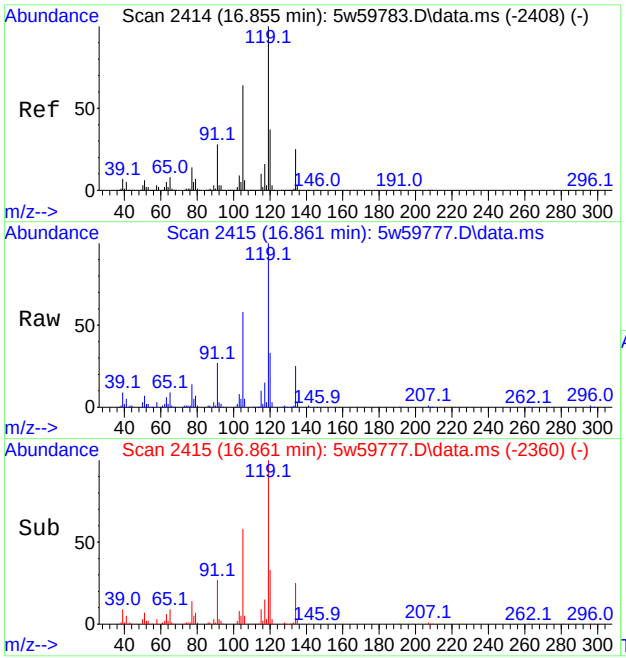


#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:105 Resp: 117540

Ion	Ratio	Lower	Upper
105	100		
120	51.6	23.5	83.5
91	39.7	7.4	67.4

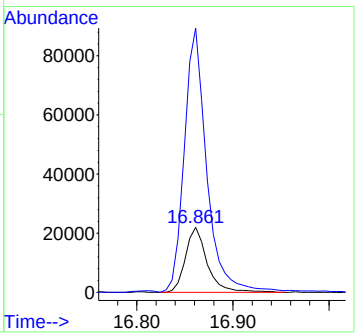


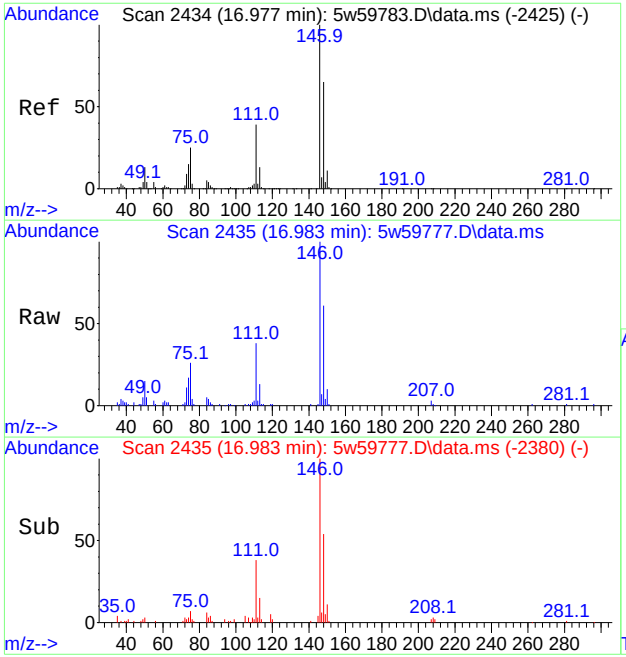


#102
p-ISOPROPYLTOLUENE
Concen: 0.35 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 34620

Ion	Ratio	Lower	Upper
134	100		
119	423.3	377.7	437.7

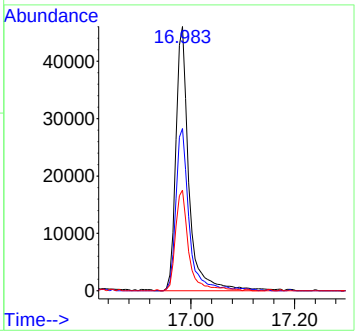


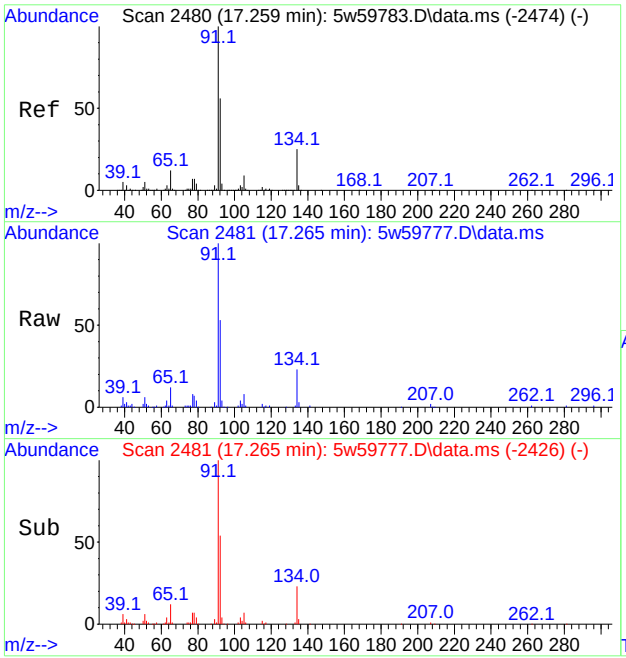


#103
o-DICHLOROBENZENE
Concen: 0.35 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:146 Resp: 81336

Ion	Ratio	Lower	Upper
146	100		
148	61.4	34.3	94.3
111	38.4	9.2	69.2

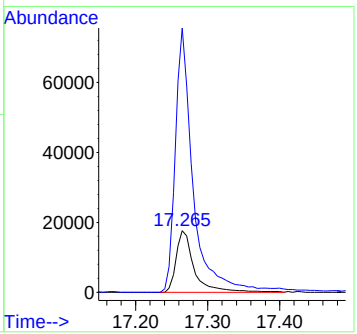


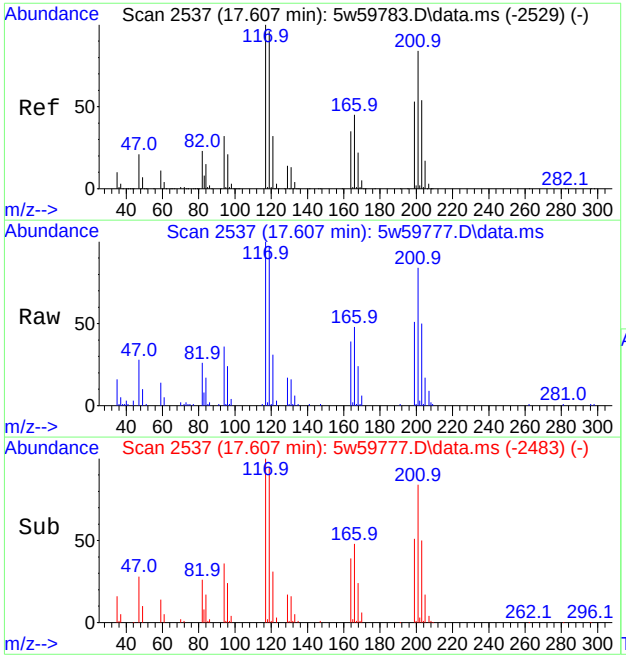


#104
n-BUTYLBENZENE
Concen: 0.32 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:134 Resp: 31100

Ion	Ratio	Lower	Upper
134	100		
91	433.4	363.1	423.1#

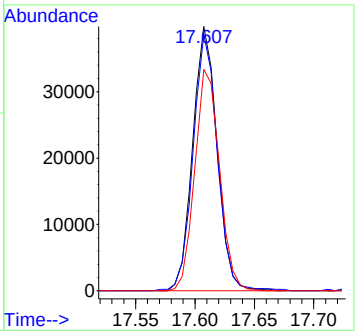


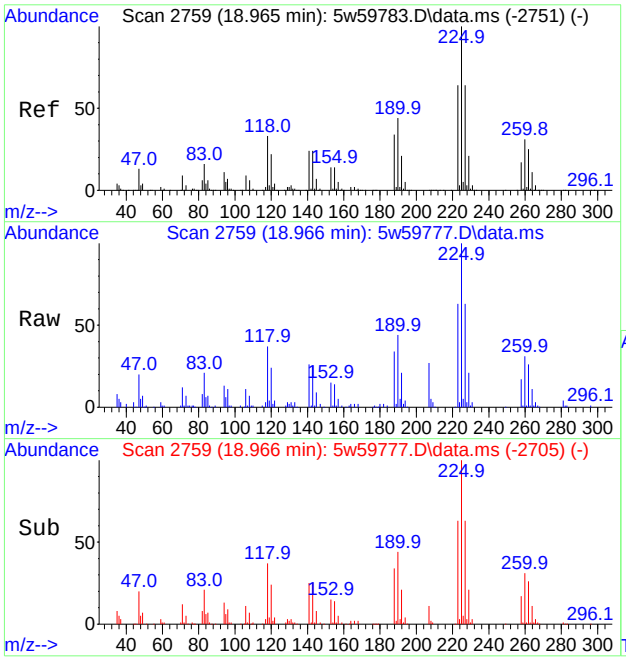


#105
HEXACHLOROETHANE
Concen: 0.36 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:117 Resp: 56860

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	84.8	61.1	113.5

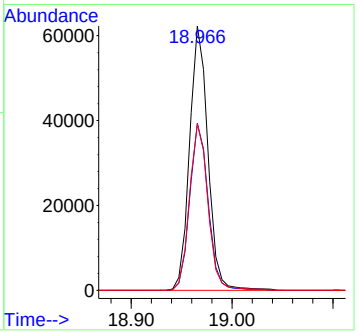


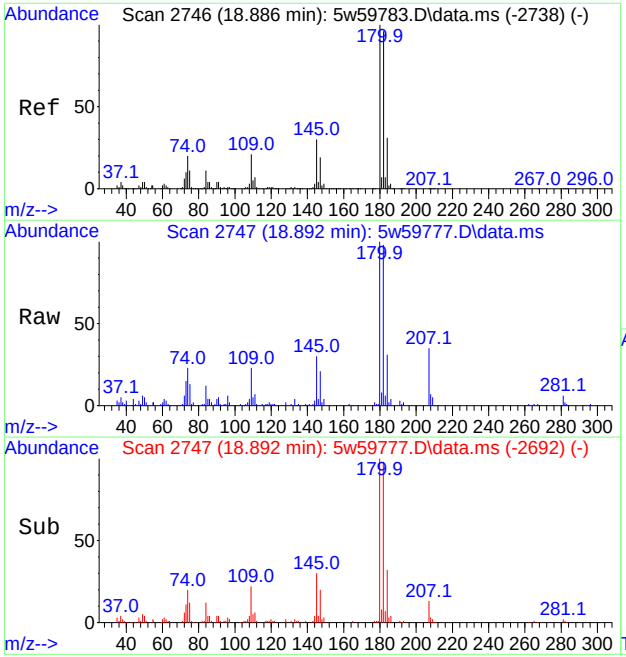


#106
HEXACHLOROBUTADIENE
Concen: 0.35 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:225 Resp: 78824

Ion	Ratio	Lower	Upper
225	100		
227	63.7	34.2	94.2
223	63.4	33.3	93.3

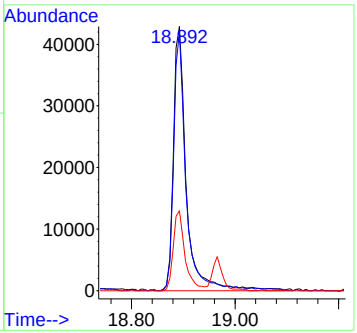


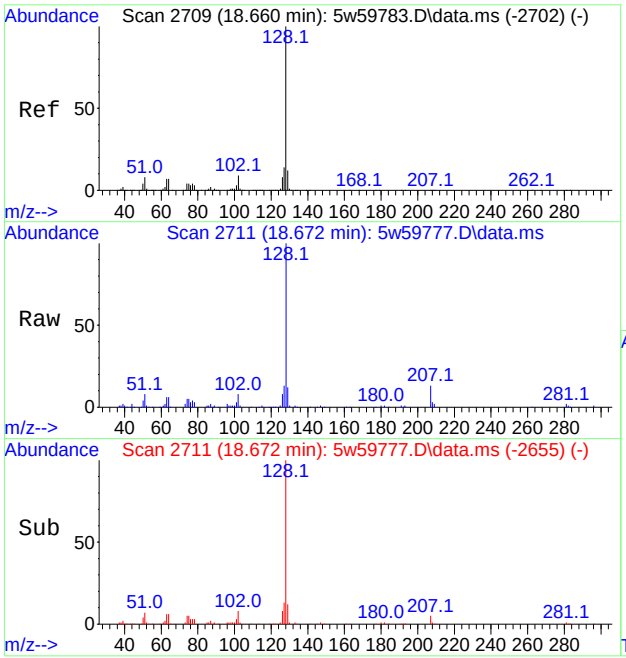


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.33 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:180 Resp: 74442

Ion	Ratio	Lower	Upper
180	100		
182	94.6	65.4	125.4
145	27.7	0.0	59.4

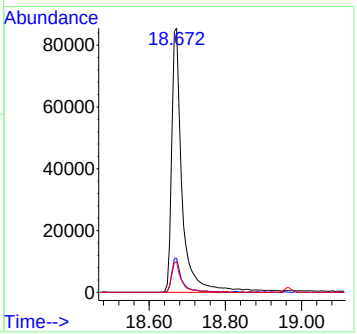


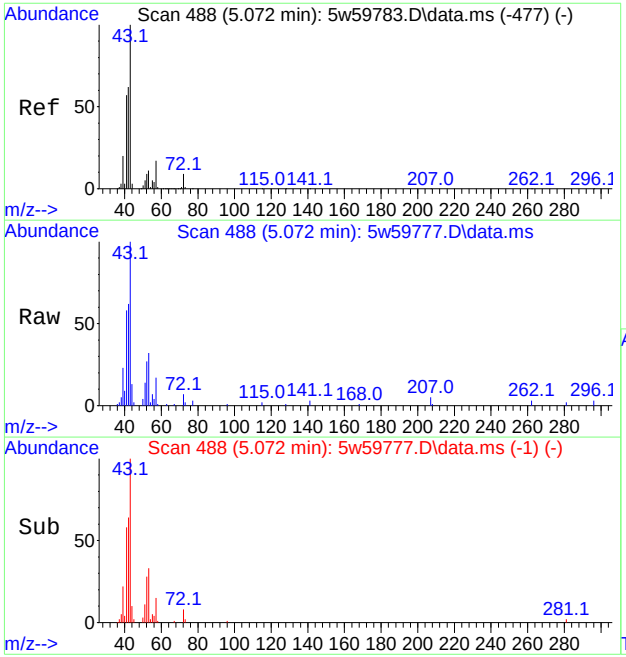


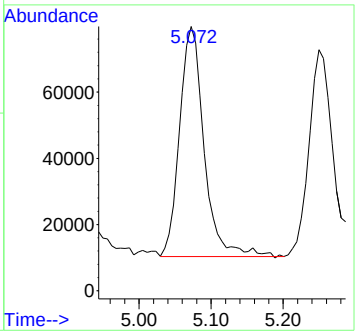
#108
NAPHTHALENE
Concen: 0.33 PPBV
RT: 18.672 min Scan# 2711
Delta R.T. 0.012 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:128 Resp: 165689

Ion	Ratio	Lower	Upper
128	100		
127	12.3	0.0	43.3
129	10.7	0.0	41.4







#110
TVHC as equiv Pentane
Concen: 0.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59777.D
Acq: 7 Nov 2025 3:41 am

Tgt Ion:TIC Resp: 163703

Manual Integration Approval Summary

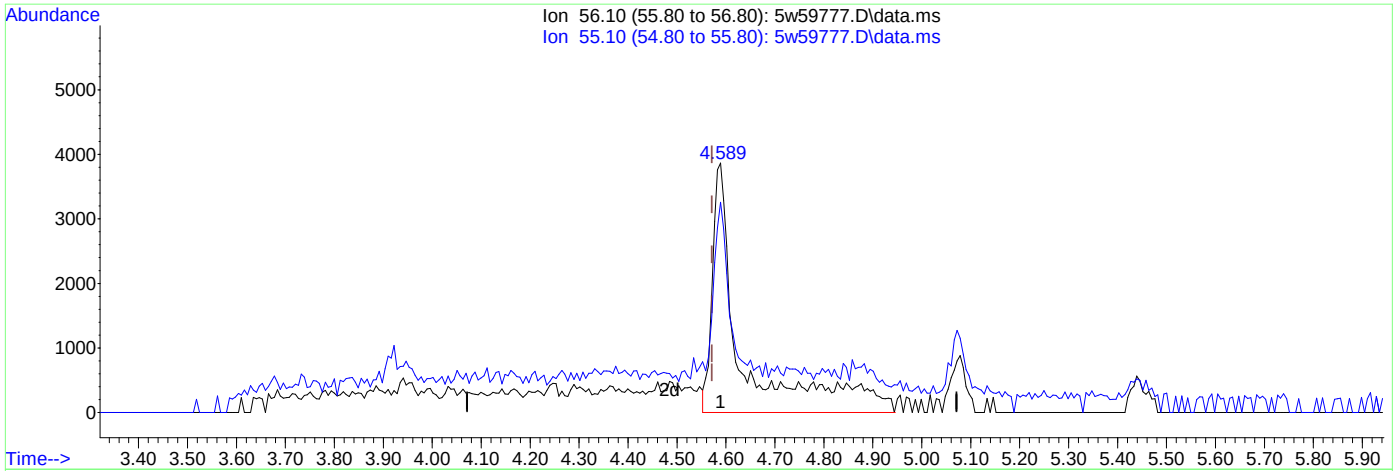
Sample Number: V5W2292-IC2292
Lab FileID: 5W59777.D
Injection Time: 11/07/25 03:41
Method: TO-15
Analyst approved: 11/07/25 21:30 Benjamin Kim
Supervisor approved: 11/10/25 12:57 Kanya Veerawat

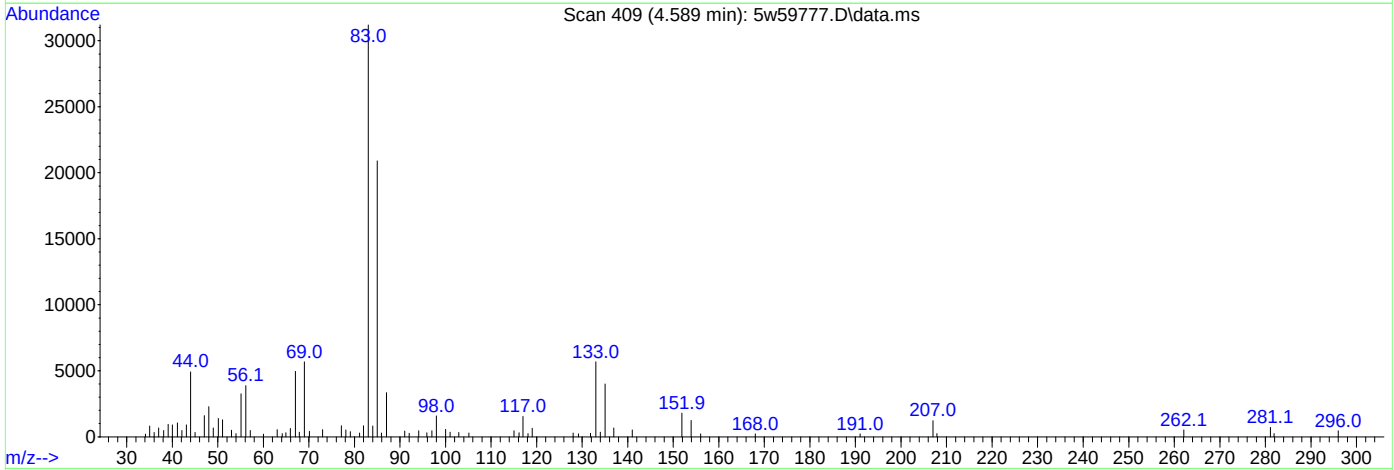
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.59	Poor instrument integration
Freon 123	306-83-2		4.59	Poor instrument integration
Methyl Acrylate	96-33-3		7.45	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.63PPBV

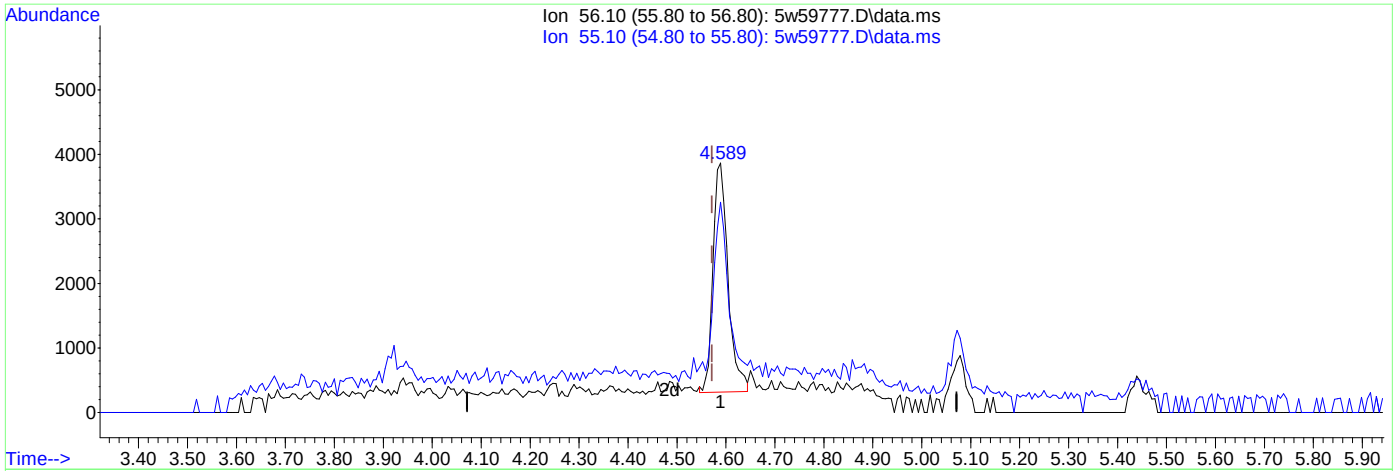
response 15953

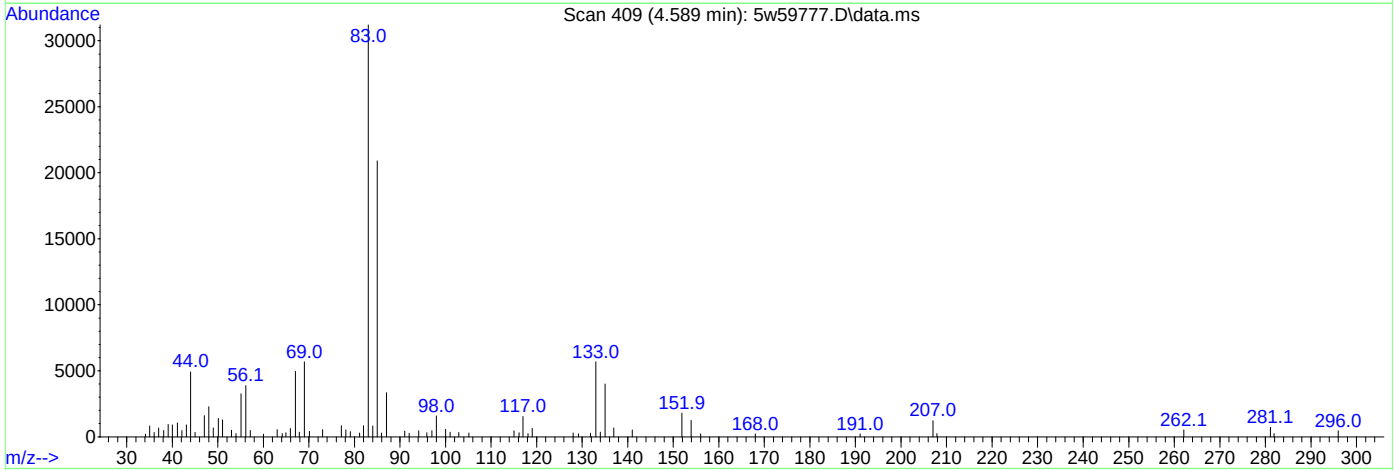
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	37.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(18) ACROLEIN

4.589min (+0.018) 0.30PPBV m

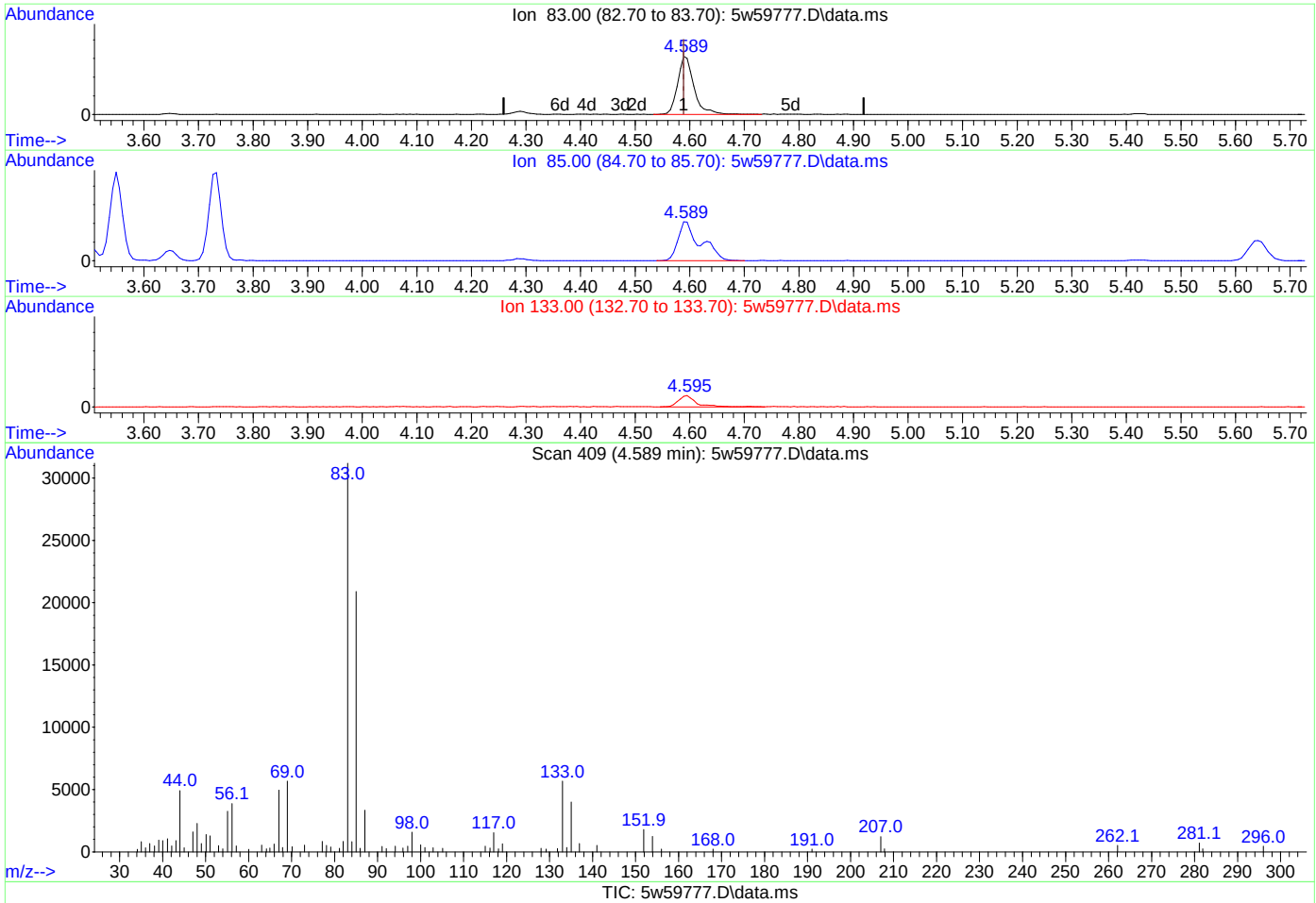
response 7542

Ion	Exp%	Act%
56.10	100	100
55.10	66.60	78.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV

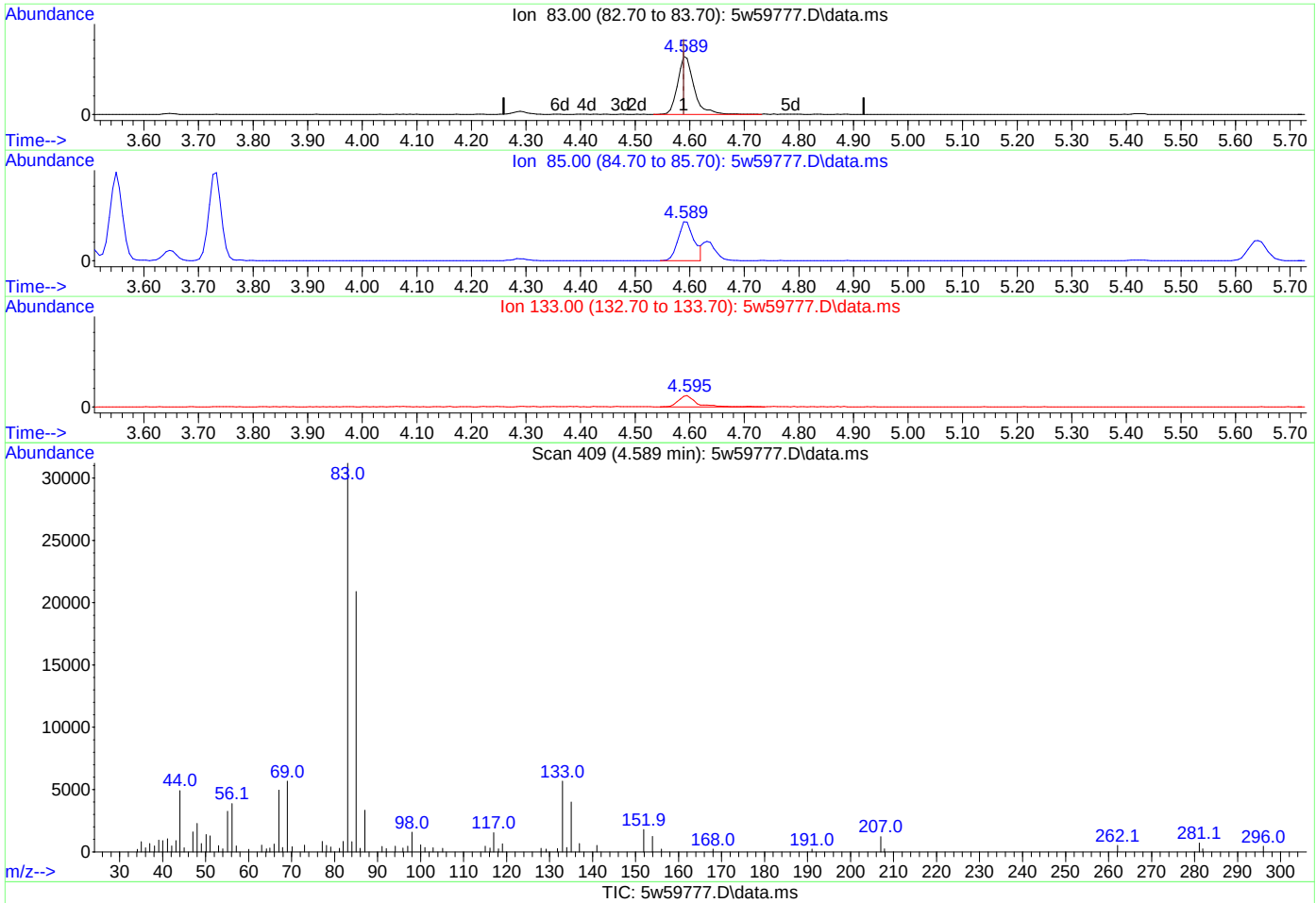
response 65470

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	91.44
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration



TIC: 5w59777.D\data.ms

(19) FREON 123

4.589min (-0.000) 0.37PPBV m

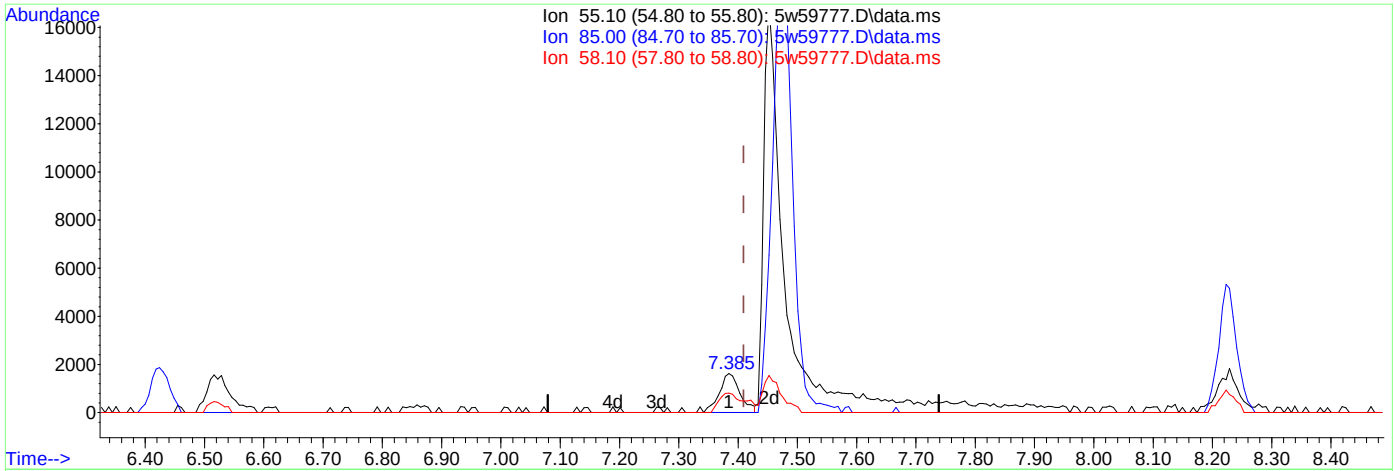
response 65470

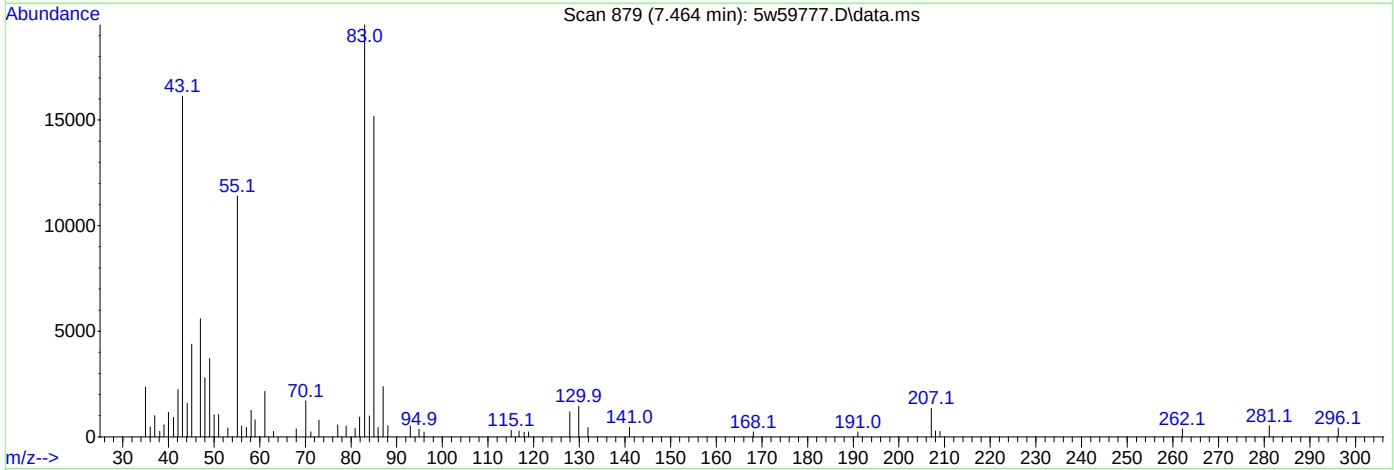
Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.82
133.00	20.70	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.385min (-0.024) 0.03PPBV

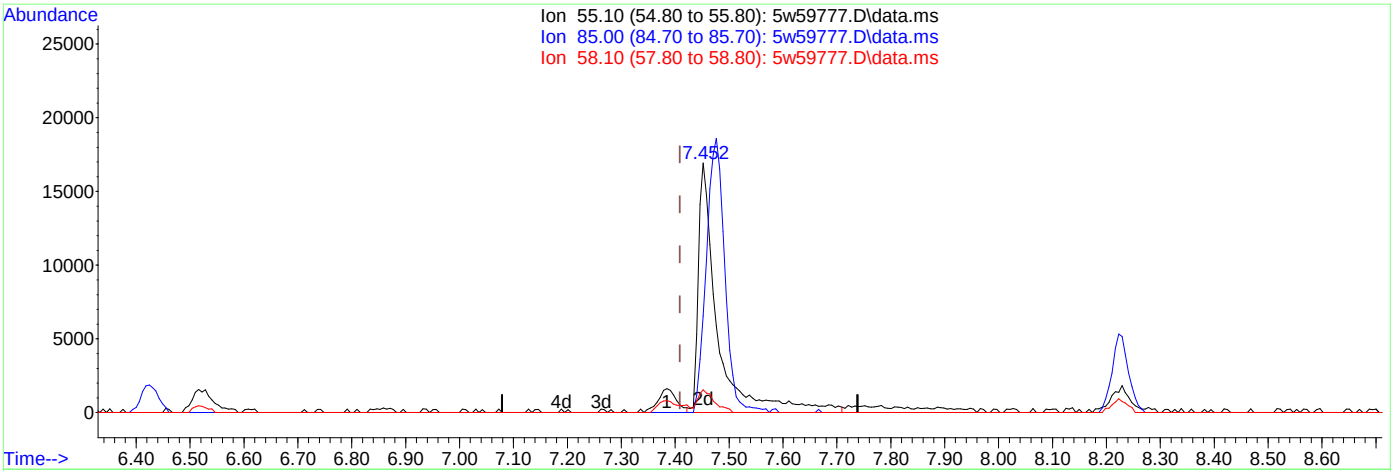
response 4031

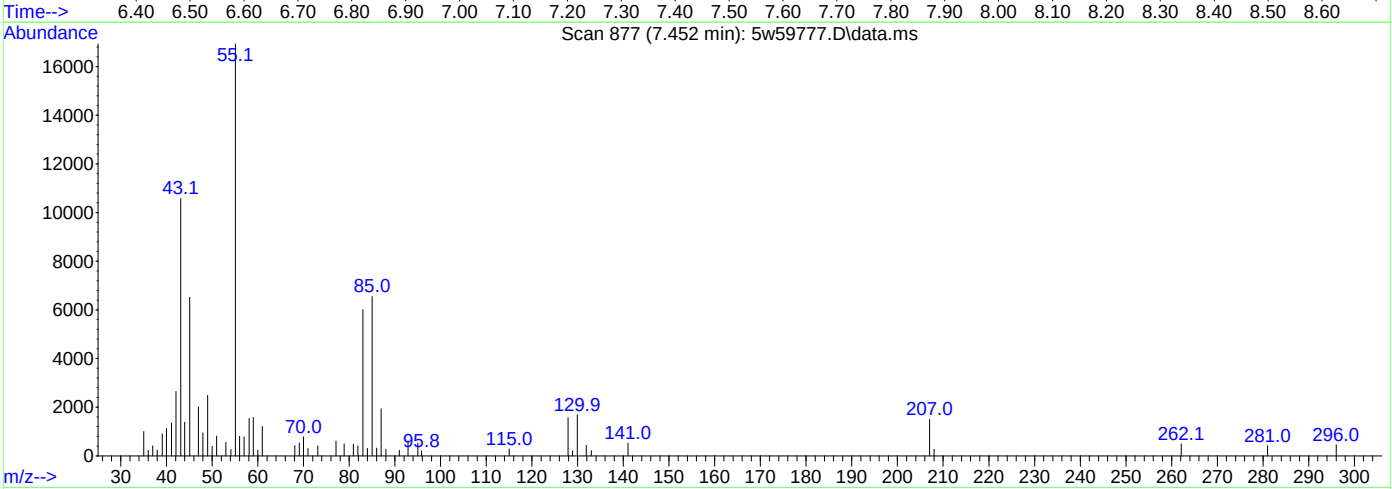
Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	63.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59777.D
Acq On : 7 Nov 2025 3:41 am
Operator : benk
Sample : ic2292-0.5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 12:48:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 12:48:22 2025
Response via : Initial Calibration





TIC: 5w59777.D\data.ms

(45) METHYL ACRYLATE

7.452min (+0.043) 0.30PPBV m

response 42153

Ion	Exp%	Act%
55.10	100	100
85.00	15.60	0.00#
58.10	13.50	6.03#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	462457	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2061895	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1060612	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	463168	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.154	95	1407517	10.67	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.70%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	208779	4.00	PPBV	100
3) FREON 152A	3.445	65	155544	4.45	PPBV	99
4) CHLORODIFLUOROMETHANE	3.482	67	78206	4.97	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	379587	5.00	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	728724	4.91	PPBV	99
7) PROPYLENE	3.500	41	173008	4.61	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	566971	4.38	PPBV	99
9) FREON 114	3.733	85	711067	5.56	PPBV	99
10) CHLOROMETHANE	3.665	52	72544	4.72	PPBV	94
11) VINYL CHLORIDE	3.818	62	241017	4.89	PPBV	100
12) 1,3-BUTADIENE	3.916	54	147915	4.60	PPBV	99
13) n-BUTANE	3.947	43	235159	4.12	PPBV	98
14) BROMOMETHANE	4.106	94	254496	5.13	PPBV	99
15) CHLOROETHANE	4.228	64	109032	4.83	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	519301	4.56	PPBV	100
17) ACETONITRILE	4.485	41	129687	3.95	PPBV	100
18) ACROLEIN	4.577	56	83602	4.77	PPBV	95
19) FREON 123	4.595	83	601219m	5.20	PPBV	
20) FREON 123A	4.638	117	365750	5.13	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.797	101	638121	4.08	PPBV	100
22) ISOPROPYL ALCOHOL	4.877	45	477900	4.35	PPBV	98
23) ACETONE	4.681	58	90961	4.50	PPBV	95
24) PENTANE	5.079	42	223509	3.74	PPBV	99
25) IODOMETHANE	5.256	142	791555	5.20	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	251542	4.66	PPBV	99
27) CARBON DISULFIDE	5.672	76	690855	4.87	PPBV	100
28) ETHANOL	4.320	45	86798	4.05	PPBV	100
29) BROMOETHENE	4.485	106	258283	5.39	PPBV	100
30) ACRYLONITRILE	5.048	52	155799	4.59	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	220204	4.55	PPBV	99
32) 3-CHLOROPROPENE	5.525	76	110268	4.99	PPBV	99
33) FREON 113	5.641	151	441351	4.66	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	257488	4.68	PPBV	97
35) TERTIARY BUTYL ALCOHOL	5.384	59	498869	4.44	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.486	73	676684	5.04	PPBV	100
37) TETRAHYDROFURAN	7.868	72	99619	5.53	PPBV	100
38) HEXANE	7.385	57	379941	5.02	PPBV	99
39) VINYL ACETATE	6.571	86	40455	4.63	PPBV	96
40) 1,1-DICHLOROETHANE	6.424	63	482232	4.85	PPBV	99
41) METHYL ETHYL KETONE	6.804	72	108805	5.80	PPBV	98
42) cis-1,2-DICHLOROETHYLENE	7.201	96	269410	4.74	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	116383	5.65	PPBV	97
44) ETHYL ACETATE	7.428	61	87258m	5.60	PPBV	
45) METHYL ACRYLATE	7.409	55	471994	5.35	PPBV	99
46) CHLOROFORM	7.477	83	570969	4.95	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	444023	5.08	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	592452	4.75	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	658939	4.82	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	401494	4.97	PPBV		100
52)	BENZENE	8.853	78	741517	5.39	PPBV		100
53)	CYCLOHEXANE	9.110	84	297316	5.48	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.349	71	144492	5.25	PPBV		97
55)	TRICHLOROETHYLENE	9.887	95	369372	5.01	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	300591	5.12	PPBV		100
57)	DIBROMOMETHANE	9.630	174	391164	4.83	PPBV		99
58)	ETHYL ACRYLATE	9.685	55	582502	5.68	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	653402	5.05	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.912	57	1206122	5.26	PPBV		100
61)	1,4-DIOXANE	9.912	88	168473	5.89	PPBV	#	8
62)	HEPTANE	10.187	43	406924	4.93	PPBV		99
63)	METHYL METHACRYLATE	10.113	69	247000	5.84	PPBV		97
64)	METHYL ISOBUTYL KETONE	10.799	58	240795	5.60	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	10.750	75	494703	5.47	PPBV		86
66)	TOLUENE	11.722	92	547474	5.55	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	446082m	5.43	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	434584	5.29	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	301561	5.53	PPBV		99
71)	2-HEXANONE	12.022	58	344921	6.43	PPBV		99
72)	ETHYL METHACRYLATE	12.028	69	445397	6.46	PPBV		97
73)	TETRACHLOROETHYLENE	12.872	164	427336	5.33	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	728217	5.41	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	595110	5.98	PPBV		100
76)	OCTANE	12.744	43	576898	5.29	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	463451	5.26	PPBV		99
78)	CHLOROBENZENE	13.582	112	750075	5.17	PPBV		98
79)	ETHYLBENZENE	13.986	91	1198151	5.80	PPBV		100
80)	m,p-XYLENE	14.182	106	943241	11.83	PPBV		99
81)	o-XYLENE	14.677	106	456348	6.21	PPBV		100
82)	STYRENE	14.573	104	711140	6.37	PPBV		100
83)	NONANE	14.934	43	586796	5.44	PPBV		99
84)	BROMOFORM	14.249	173	765790	5.54	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	804240	6.16	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	563086	5.21	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	1351649	5.60	PPBV		100
89)	BROMOBENZENE	15.375	77	663458	5.25	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	351599	5.42	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	357322	5.54	PPBV		99
92)	4-ETHYLTOLUENE	15.962	105	1362882	6.29	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	1159491	5.77	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	573224	5.89	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	250823	6.02	PPBV		96
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	1191915	6.18	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	871935	5.56	PPBV		100
98)	BENZYL CHLORIDE	16.568	91	1137176	6.44	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	878264	5.40	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	309649	5.79	PPBV		97
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	1209627	5.87	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	367882	6.01	PPBV		96
103)	o-DICHLOROBENZENE	16.977	146	831952	5.25	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	353476	6.27	PPBV		99
105)	HEXACHLOROETHANE	17.608	117	597723	5.71	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	827665	5.13	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	807736	7.16	PPBV		100
108)	NAPHTHALENE	18.660	128	1912544	7.30	PPBV		99
110)	TVHC as equiv Pentane	5.072	TIC	1469674	4.29	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

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

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

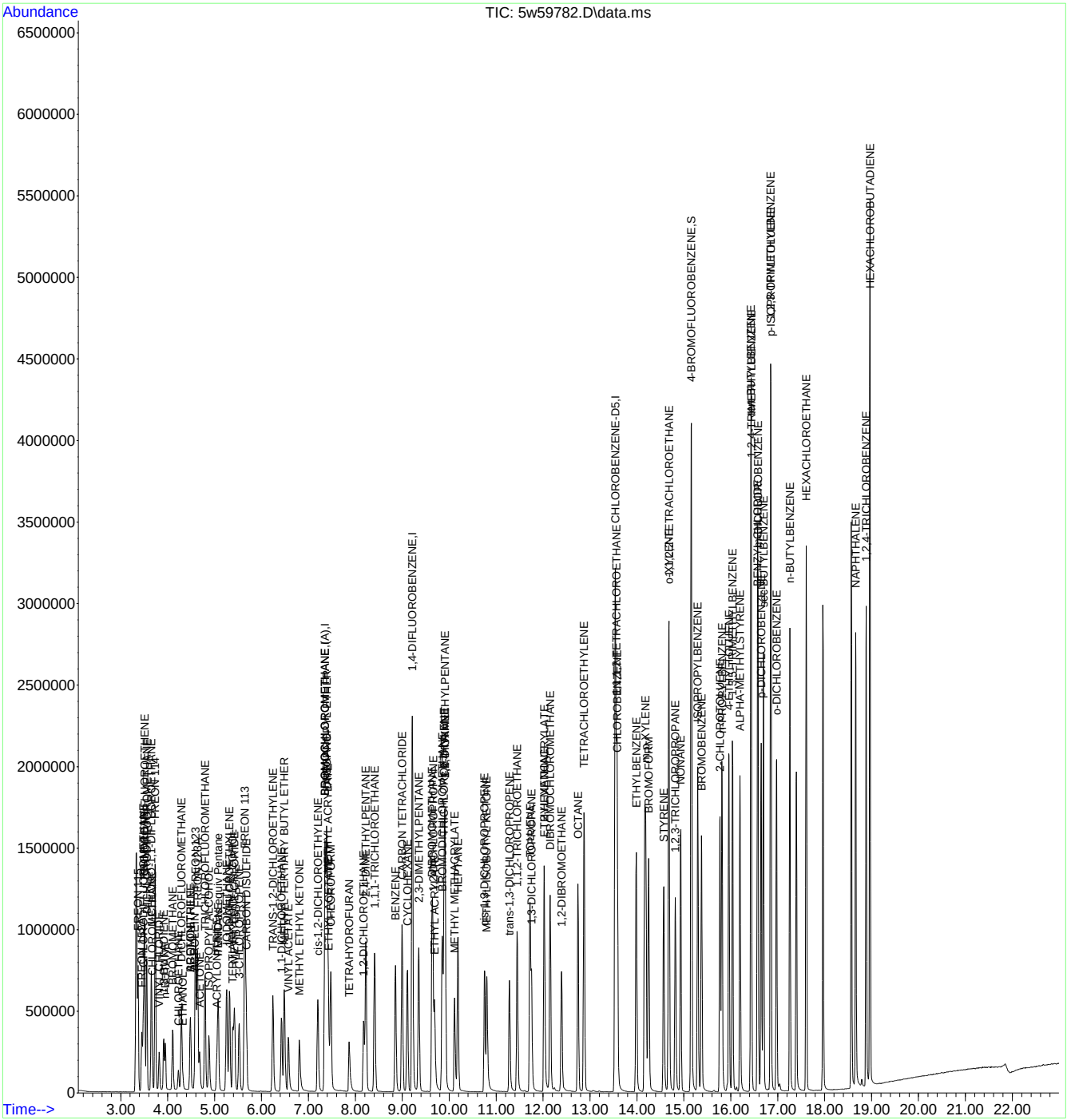
7.7.5

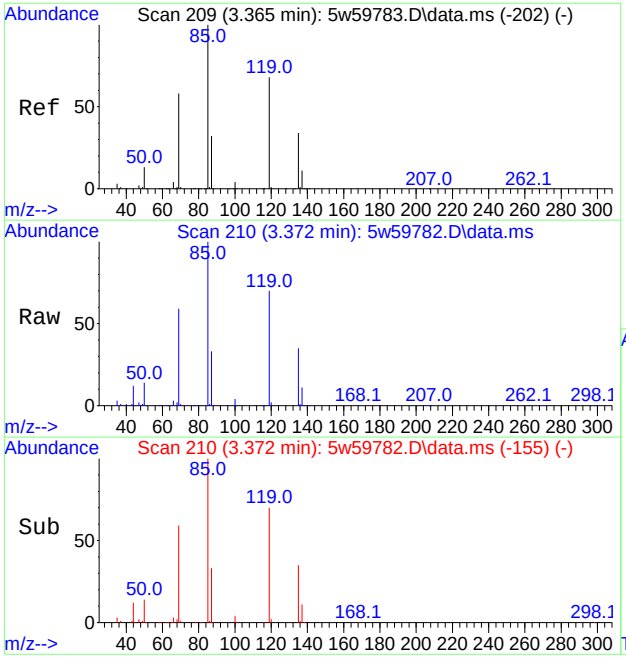
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:54:49 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration

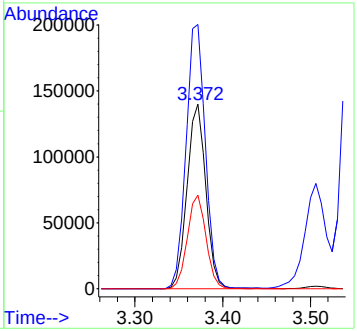


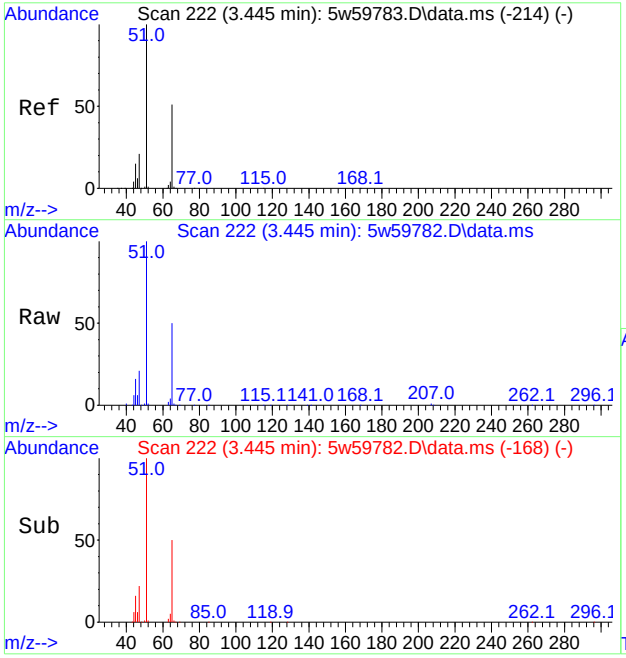


#2
FREON 115
Concen: 4.00 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:119 Resp: 208779

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.6	20.6	80.6

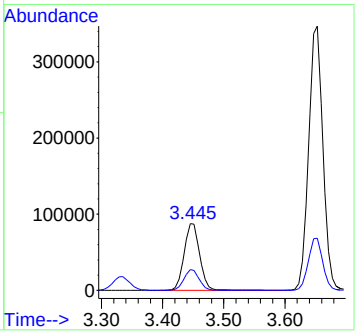


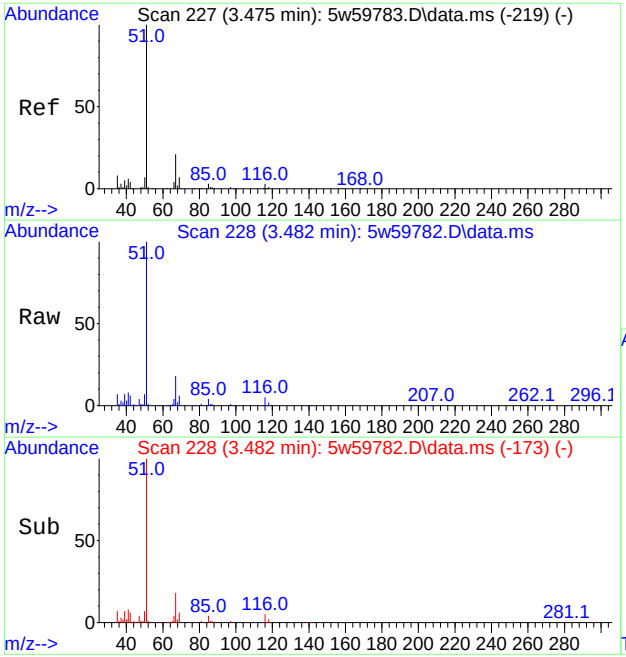


#3
FREON 152A
Concen: 4.45 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 155544

Ion	Ratio	Lower	Upper
65	100		
45	30.4	0.0	60.0

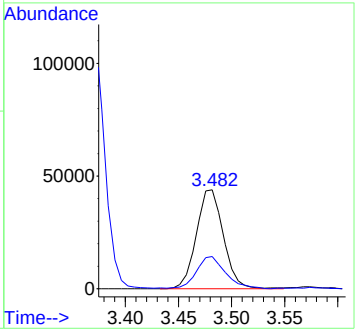


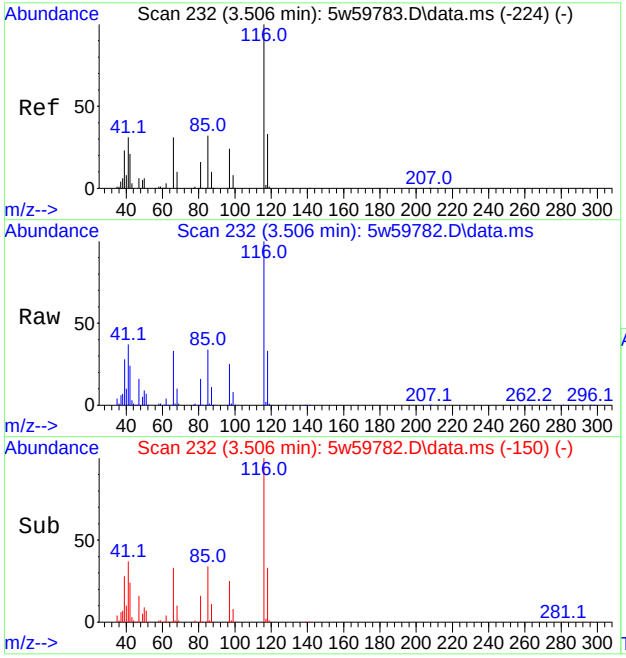


#4
CHLORODIFLUOROMETHANE
Concen: 4.97 PPBV
RT: 3.482 min Scan# 228
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 78206

Ion	Ratio	Lower	Upper
67	100		
69	32.7	1.0	61.0

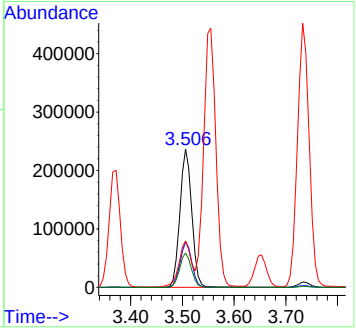


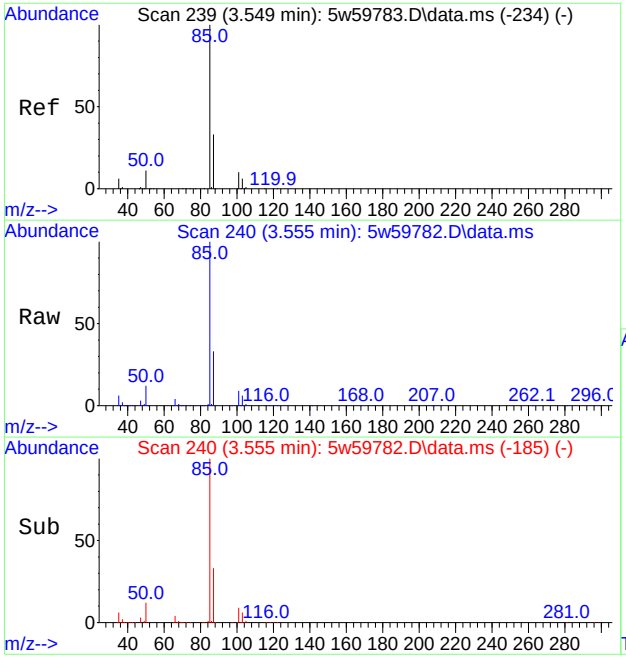


#5
CHLOROTRIFLUOROETHENE
Concen: 5.00 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:116 Resp: 379587

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.9	42.5
85	35.3	23.7	44.1
97	24.4	17.0	31.6

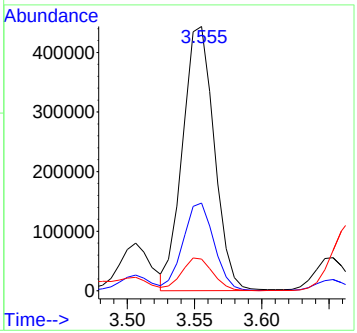


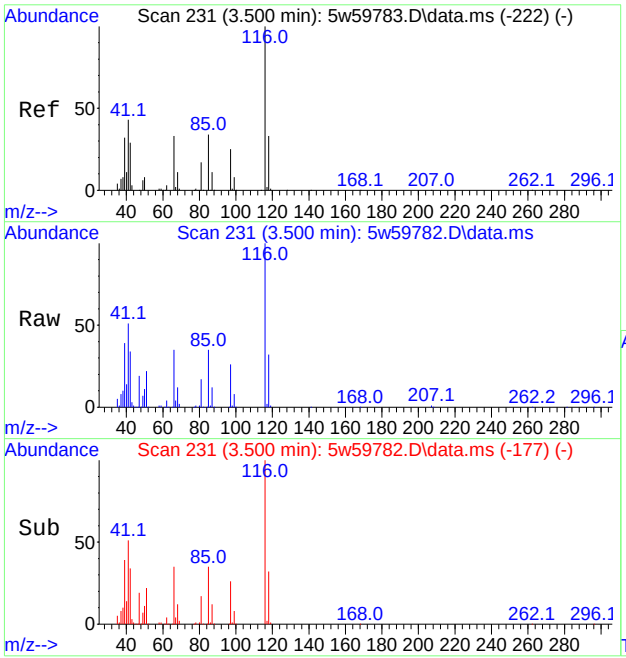


#6
DICHLORODIFLUOROMETHANE
Concen: 4.91 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 728724

Ion	Ratio	Lower	Upper
85	100		
87	32.7	2.5	62.5
50	12.3	0.0	41.7

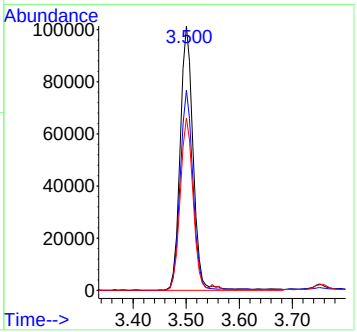


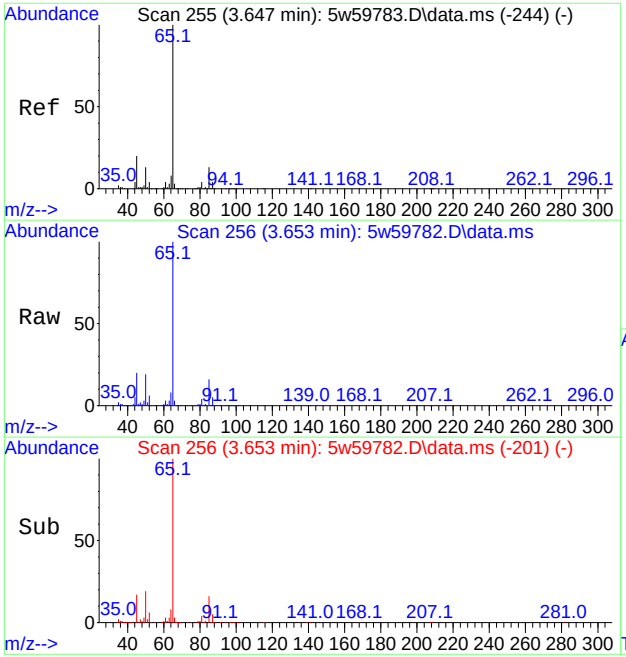


#7
PROPYLENE
Concen: 4.61 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 173008

Ion	Ratio	Lower	Upper
41	100		
39	77.1	45.1	105.1
42	63.7	36.3	96.3

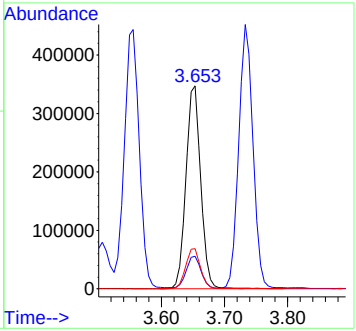


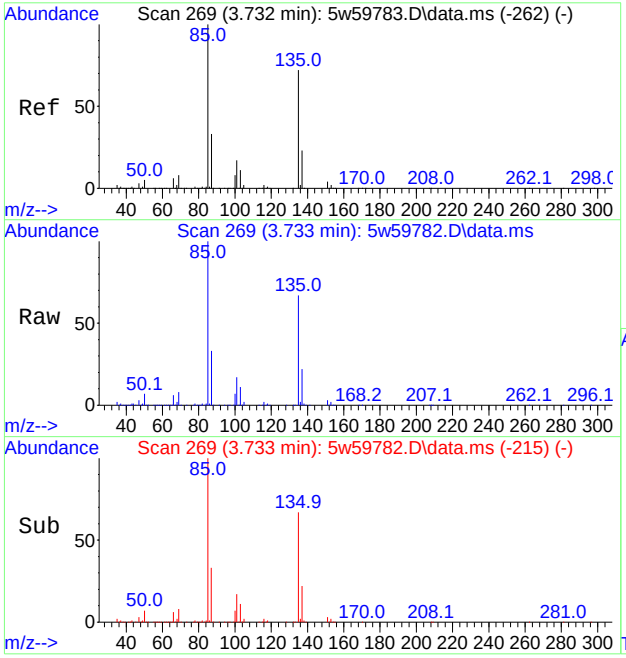


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 4.38 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 65 Resp: 566971

Ion	Ratio	Lower	Upper
65	100		
85	16.1	11.5	21.3
45	20.3	14.0	26.0

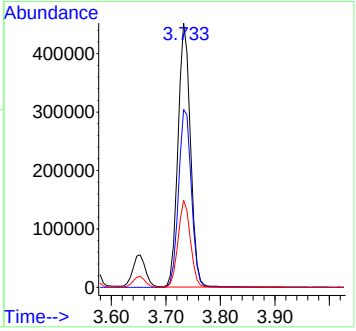


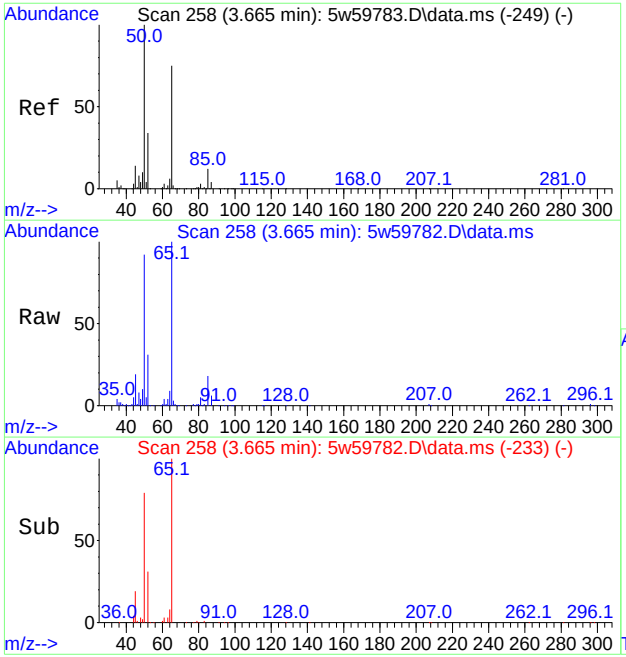


#9
FREON 114
Concen: 5.56 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 85 Resp: 711067

Ion	Ratio	Lower	Upper
85	100		
135	69.7	40.5	100.5
87	32.8	3.0	63.0

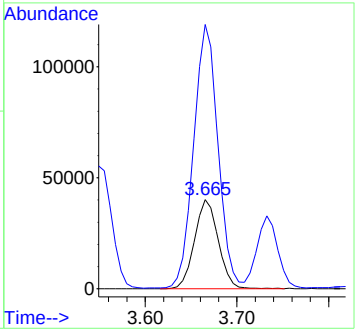


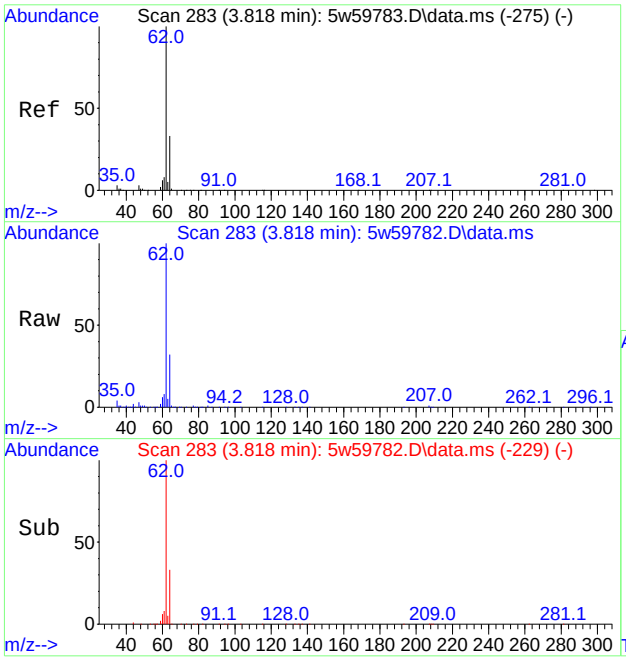


#10
CHLOROMETHANE
Concen: 4.72 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 72544

Ion	Ratio	Lower	Upper
52	100		
50	285.9	267.9	327.9

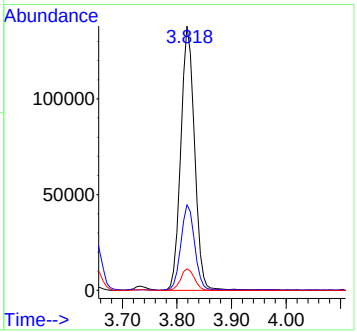


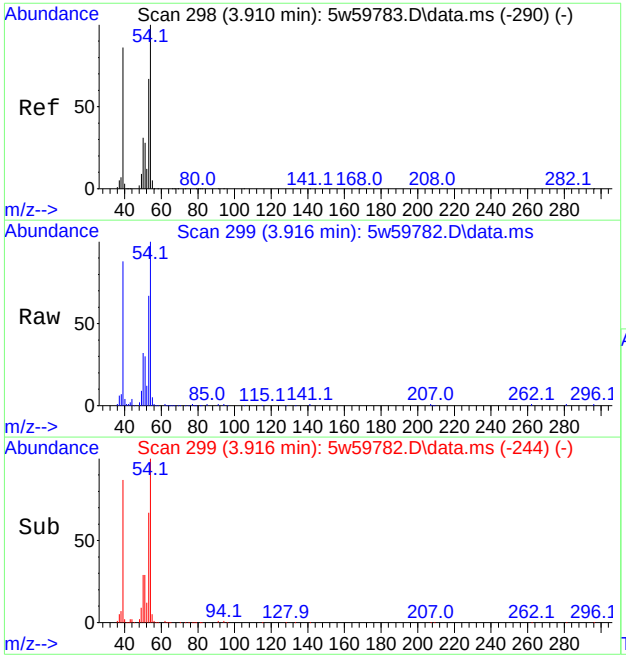


#11
VINYL CHLORIDE
Concen: 4.89 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 241017

Ion	Ratio	Lower	Upper
62	100		
64	33.5	3.6	63.6
61	8.2	0.0	38.2

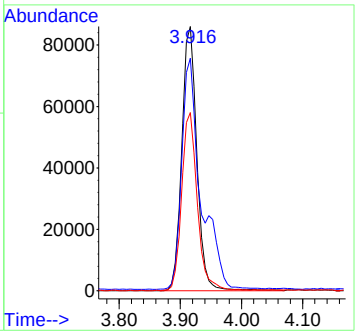


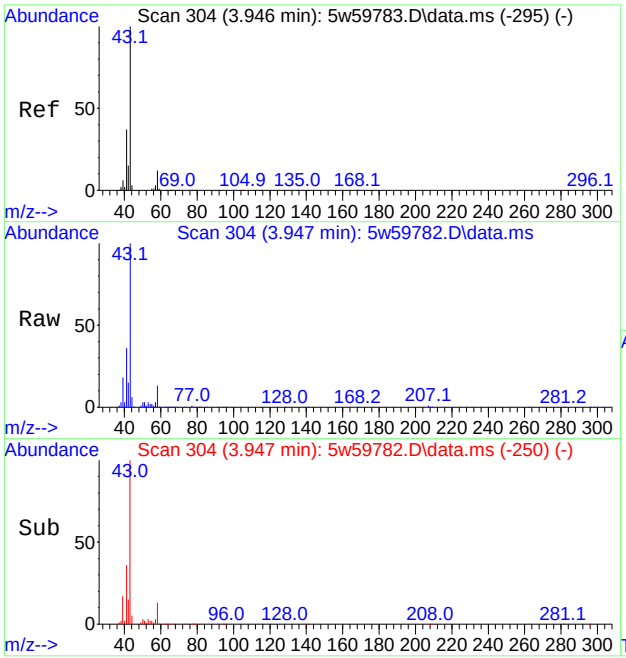


#12
1,3-BUTADIENE
Concen: 4.60 PPBV
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 54 Resp: 147915

Ion	Ratio	Lower	Upper
54	100		
39	111.9	82.0	142.0
53	71.7	40.2	100.2

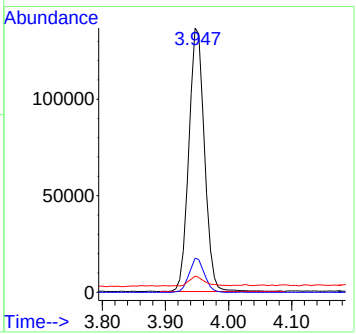


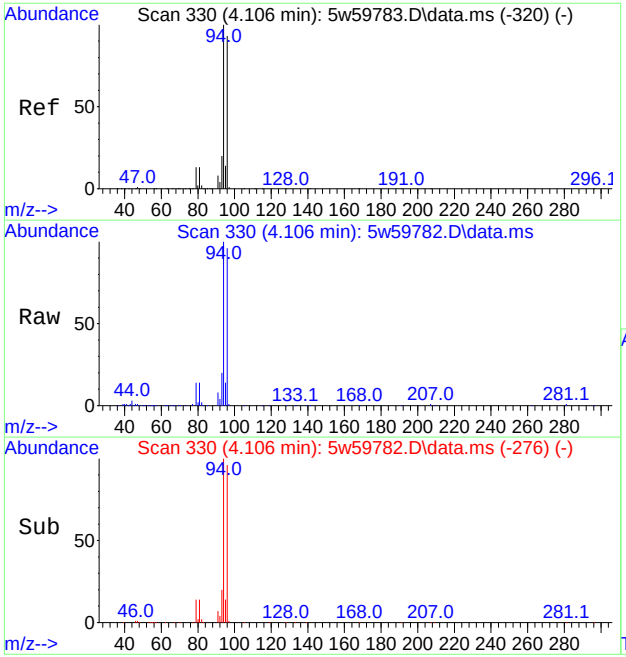


#13
n-BUTANE
Concen: 4.12 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 235159

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	6.5	0.0	34.9

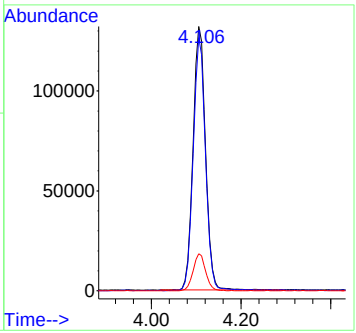


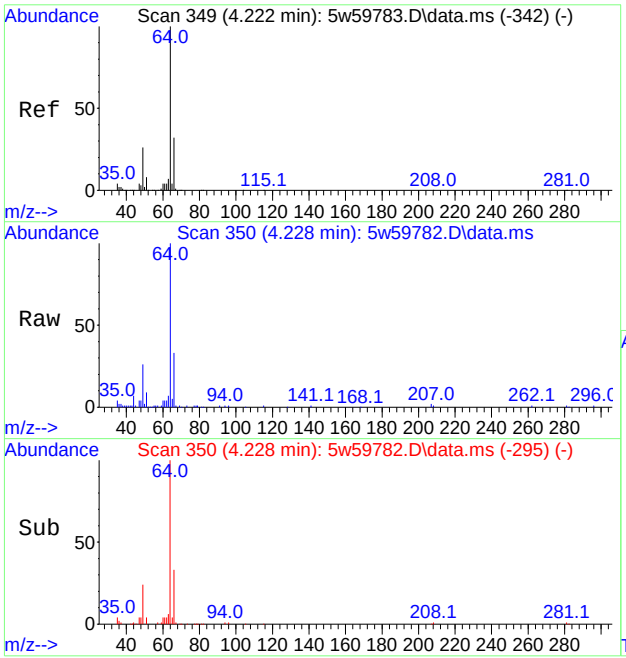


#14
BROMOMETHANE
Concen: 5.13 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 94 Resp: 254496

Ion	Ratio	Lower	Upper
94	100		
96	96.4	65.3	125.3
95	14.1	0.0	44.1

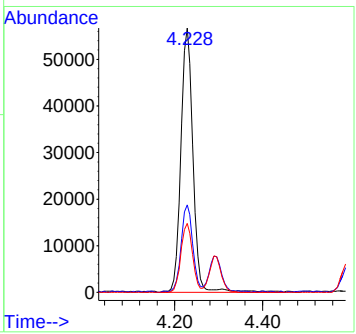


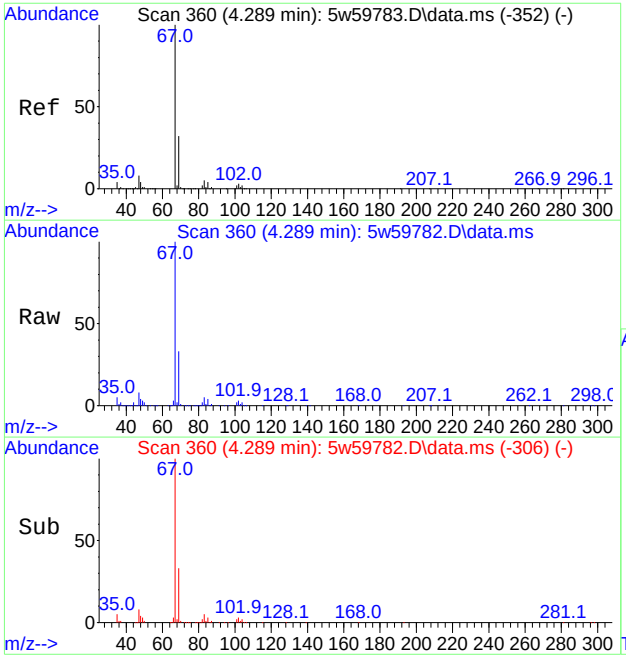


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 64 Resp: 109032

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

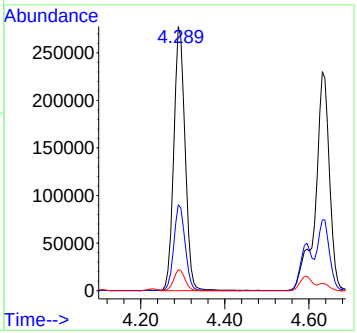


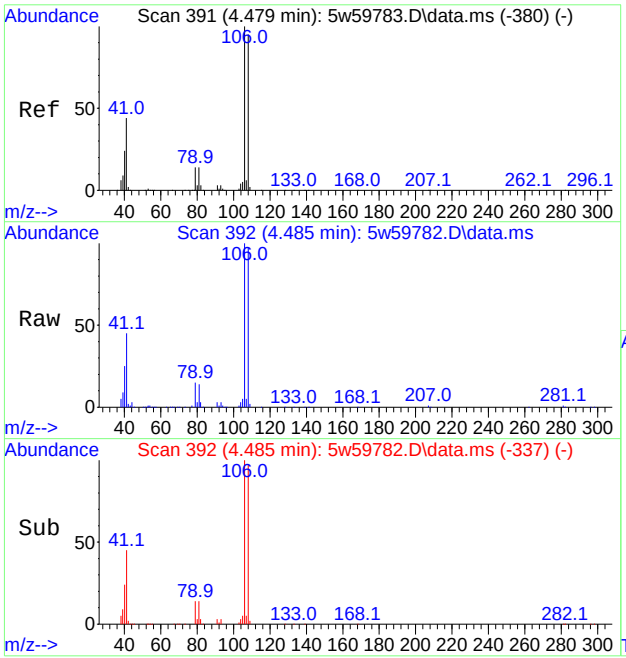


#16
DICHLOROFLUOROMETHANE
Concen: 4.56 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 67 Resp: 519301

Ion	Ratio	Lower	Upper
67	100		
69	32.7	22.7	42.3
47	8.0	5.6	10.4

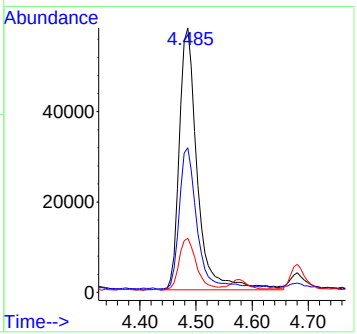


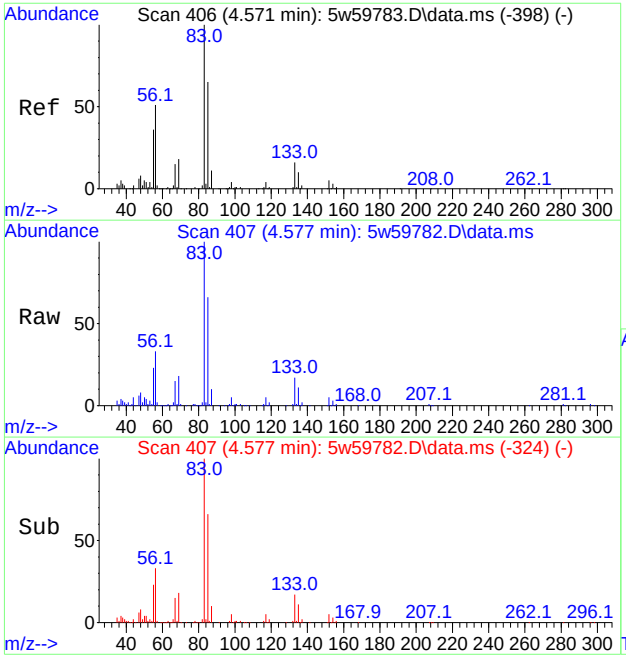


#17
ACETONITRILE
Concen: 3.95 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 41 Resp: 129687

Ion	Ratio	Lower	Upper
41	100		
40	54.3	37.9	70.5
39	19.1	13.4	24.8

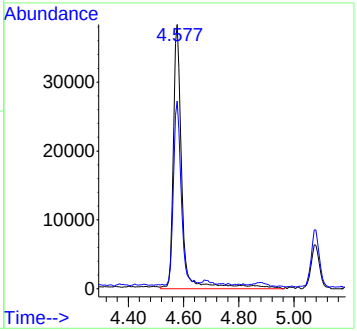


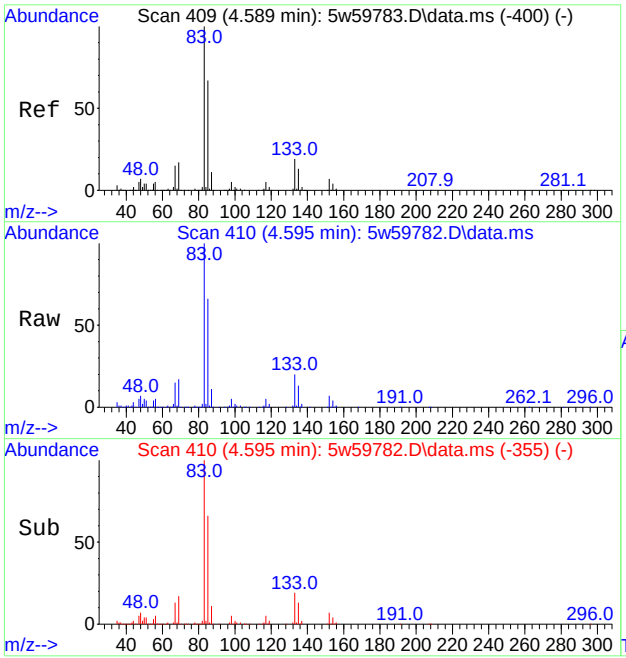


#18
ACROLEIN
Concen: 4.77 PPBV
RT: 4.577 min Scan# 407
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 56 Resp: 83602

Ion	Ratio	Lower	Upper
56	100		
55	62.6	46.6	86.6

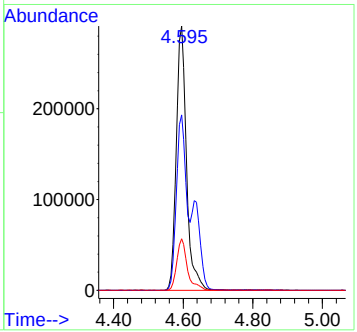


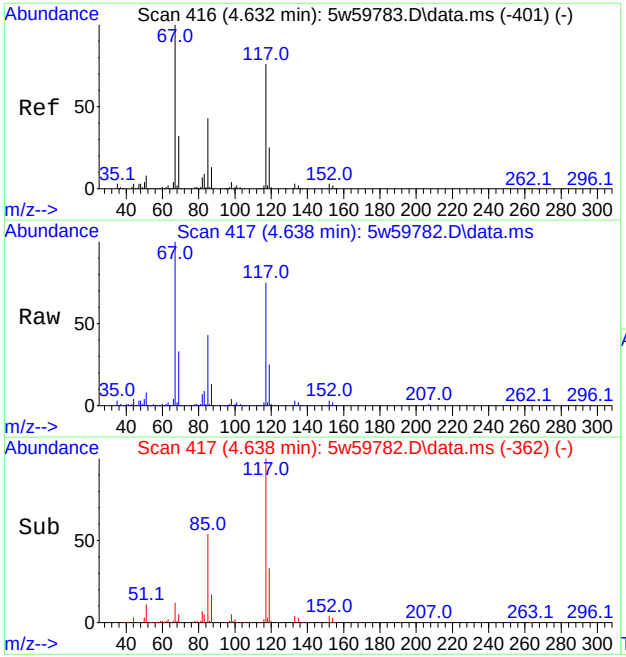


#19
FREON 123
Concen: 5.20 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 601219

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	20.5	0.0	50.7

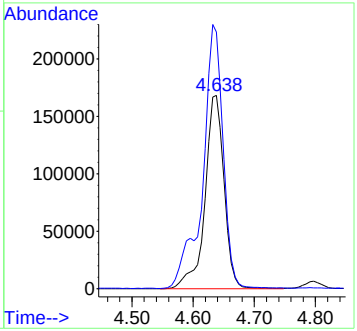


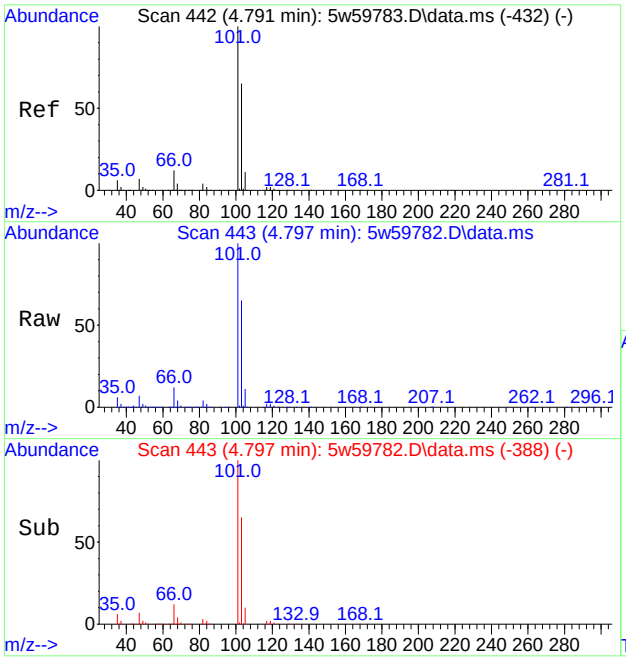


#20
FREON 123A
Concen: 5.13 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 365750

Ion	Ratio	Lower	Upper
117	100		
67	145.9	114.6	174.6

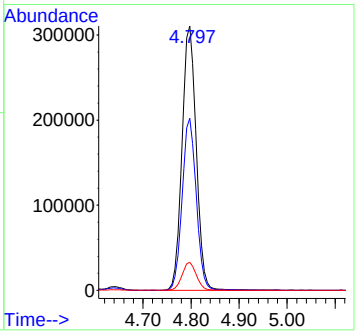


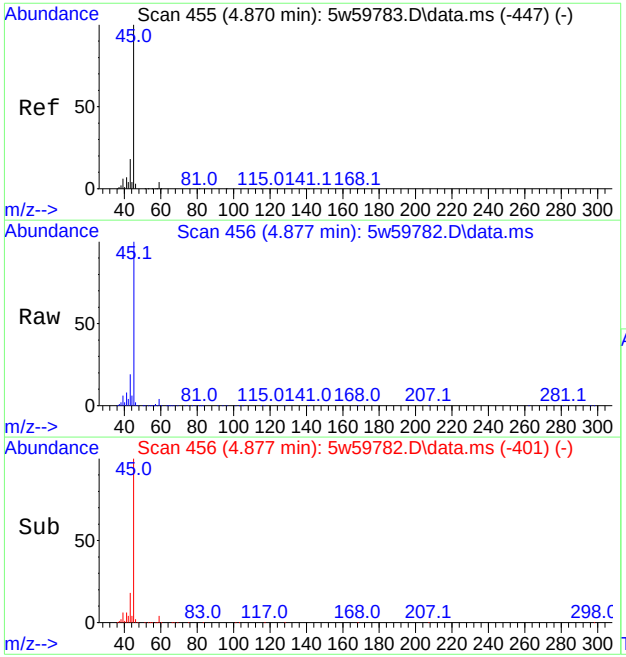


#21
TRICHLOROFLUOROMETHANE
Concen: 4.08 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:101 Resp: 638121

Ion	Ratio	Lower	Upper
101	100		
103	64.6	35.0	95.0
105	10.8	0.0	40.7

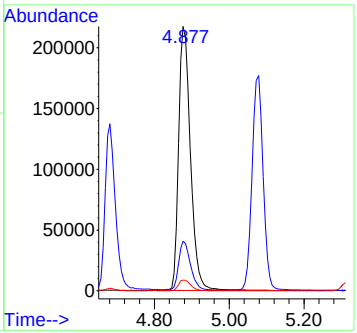


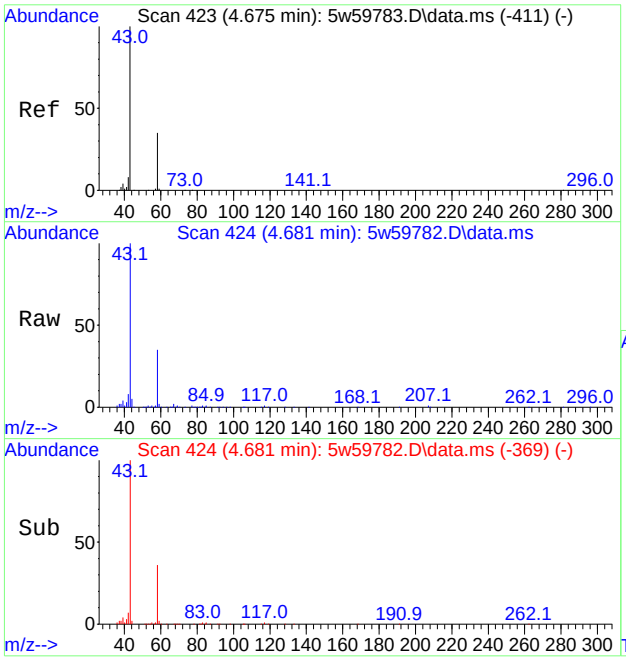


#22
ISOPROPYL ALCOHOL
Concen: 4.35 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 477900

Ion	Ratio	Lower	Upper
45	100		
43	18.8	0.0	47.8
59	4.1	0.0	34.1

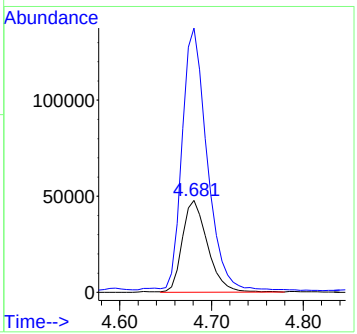


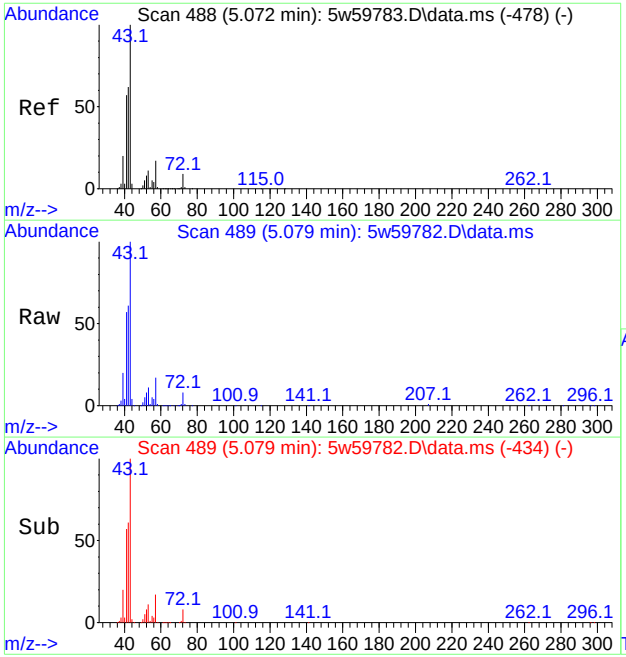


#23
ACETONE
Concen: 4.50 PPBV
RT: 4.681 min Scan# 424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 90961

Ion	Ratio	Lower	Upper
58	100		
43	290.9	252.3	312.3

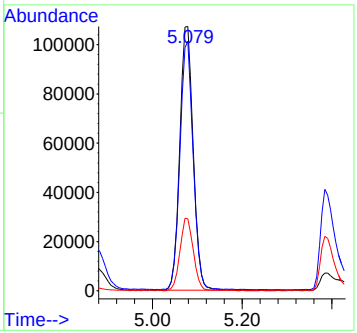


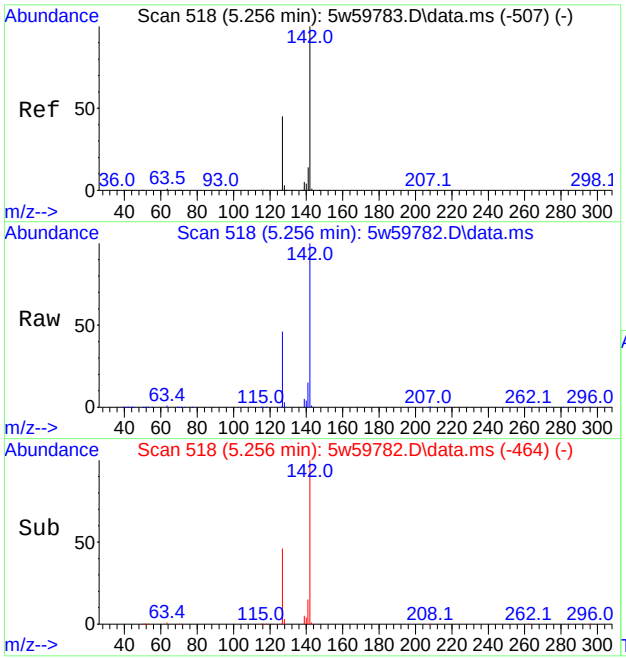


#24
PENTANE
Concen: 3.74 PPBV
RT: 5.079 min Scan# 489
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 42 Resp: 223509

Ion	Ratio	Lower	Upper
42	100		
41	93.1	62.3	122.3
57	27.7	0.0	57.7

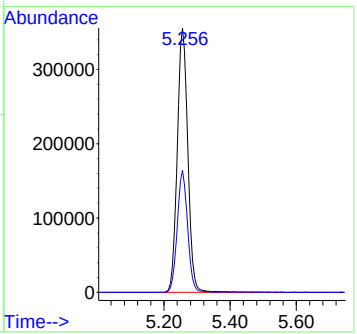


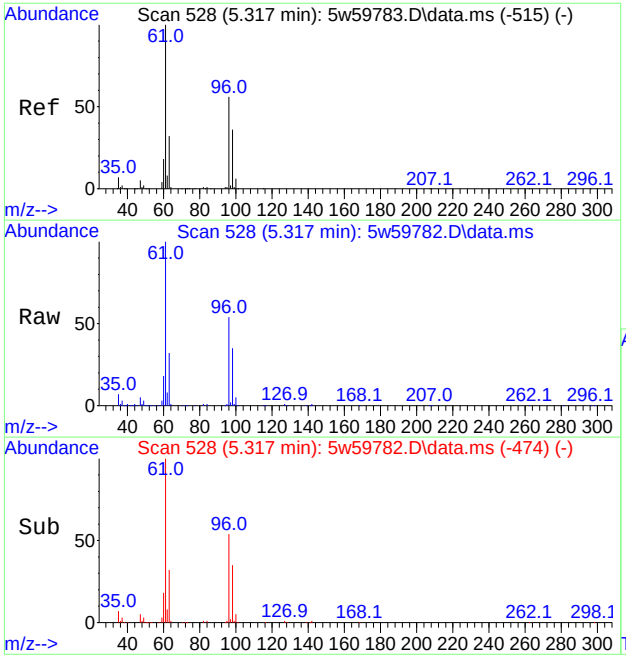


#25
IODOMETHANE
Concen: 5.20 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:142 Resp: 791555

Ion	Ratio	Lower	Upper
142	100		
127	45.5	16.0	76.0

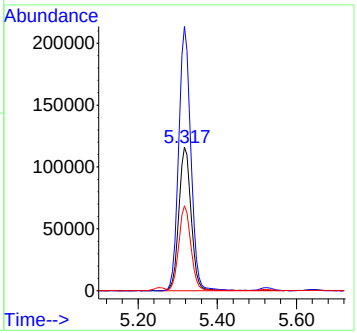


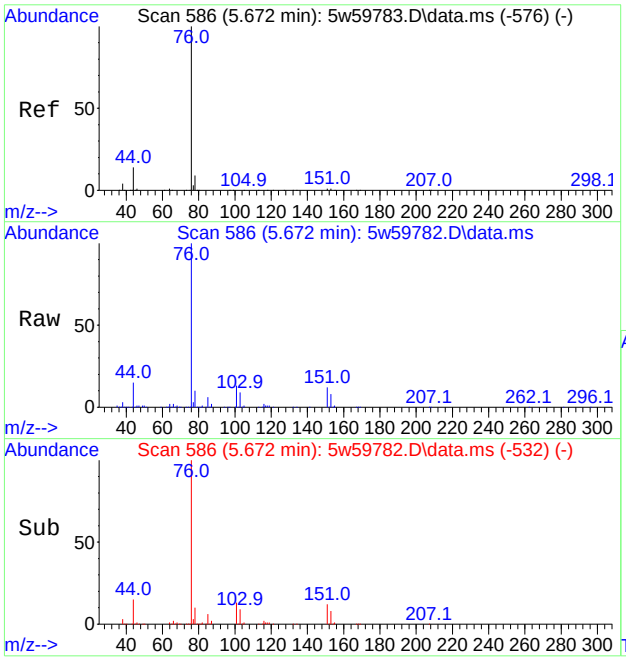


#26
1,1-DICHLOROETHYLENE
Concen: 4.66 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 251542

Ion	Ratio	Lower	Upper
96	100		
61	180.6	148.5	208.5
63	57.9	27.4	87.4

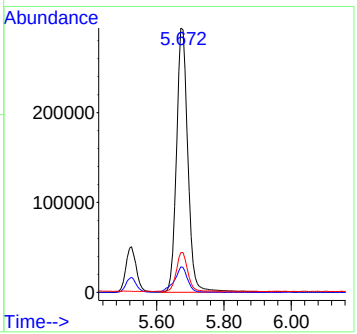


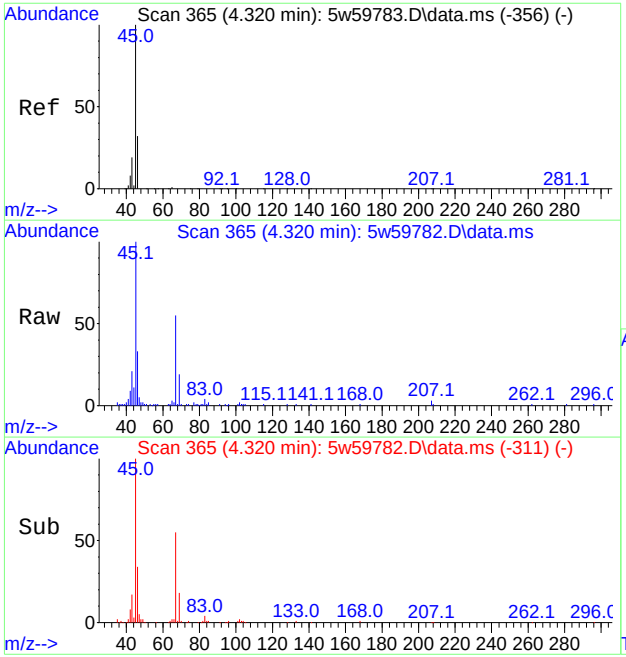


#27
CARBON DISULFIDE
Concen: 4.87 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 690855

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

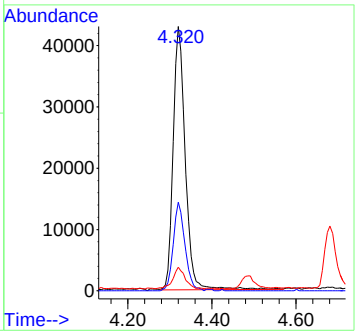


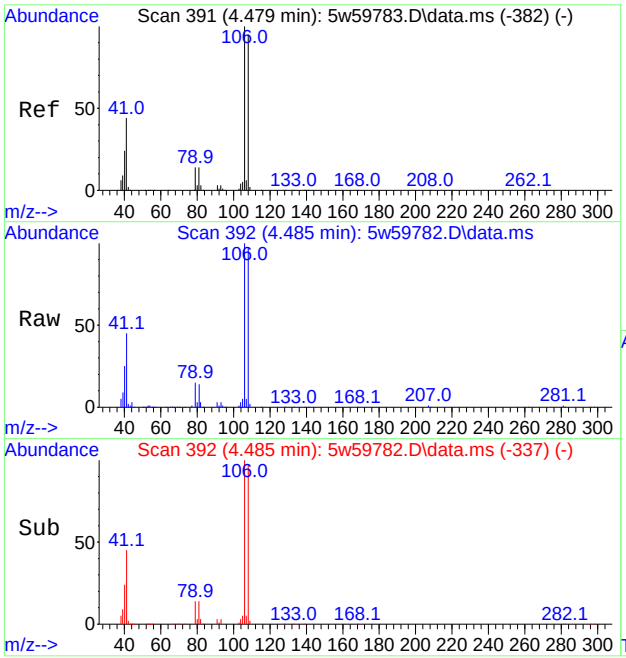


#28
ETHANOL
Concen: 4.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 45 Resp: 86798

Ion	Ratio	Lower	Upper
45	100		
46	32.2	2.0	62.0
42	8.5	0.0	38.5

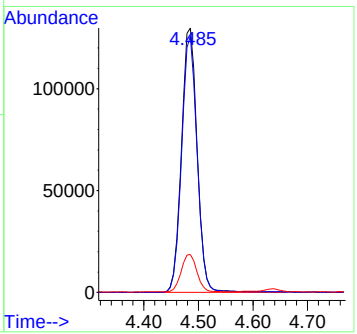


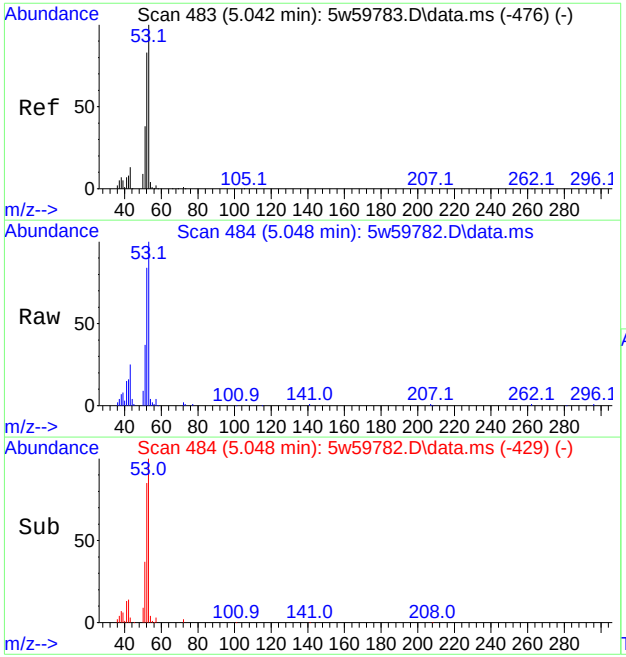


#29
BROMOETHENE
Concen: 5.39 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 258283

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	14.5	0.0	43.9

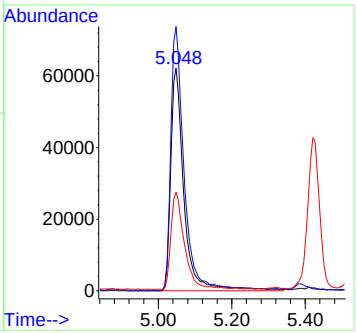


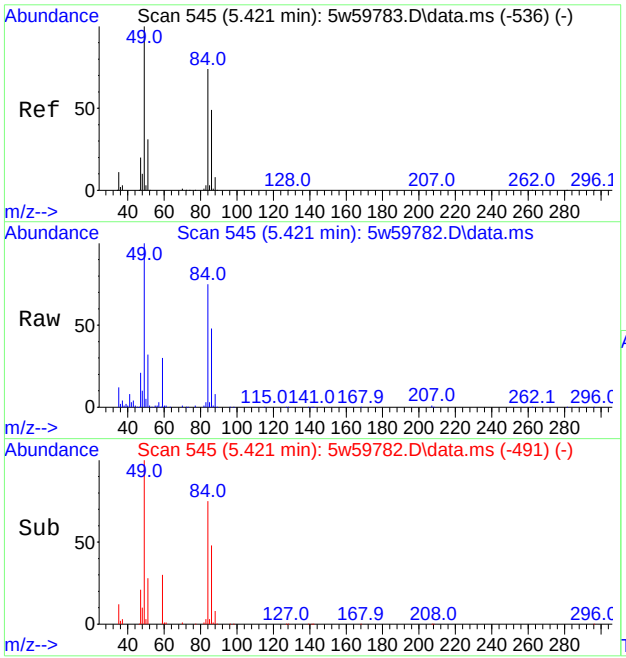


#30
ACRYLONITRILE
Concen: 4.59 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 52 Resp: 155799

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.6	32.3	60.1

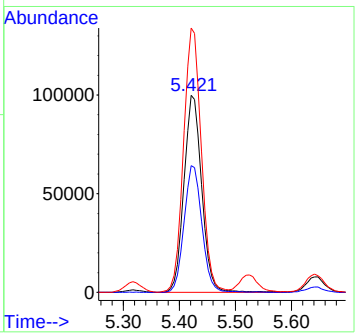


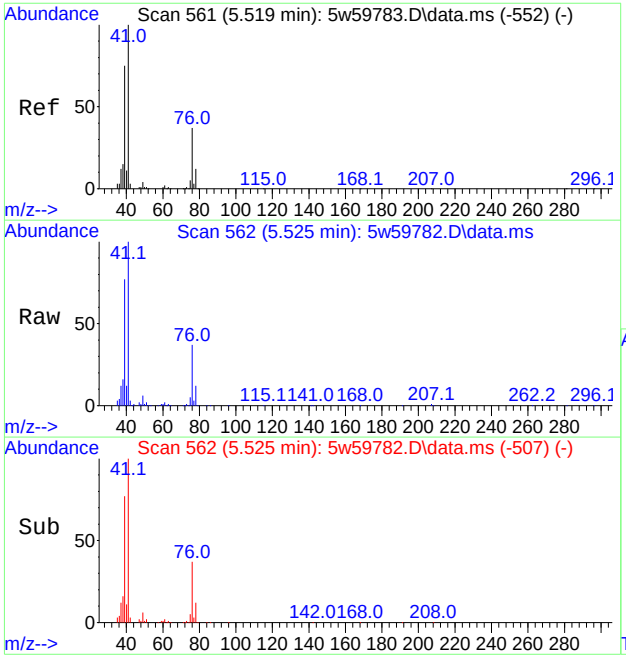


#31
METHYLENE CHLORIDE
Concen: 4.55 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 220204

Ion	Ratio	Lower	Upper
84	100		
86	64.5	35.2	95.2
49	134.2	105.3	165.3

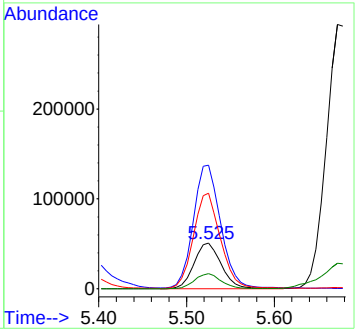


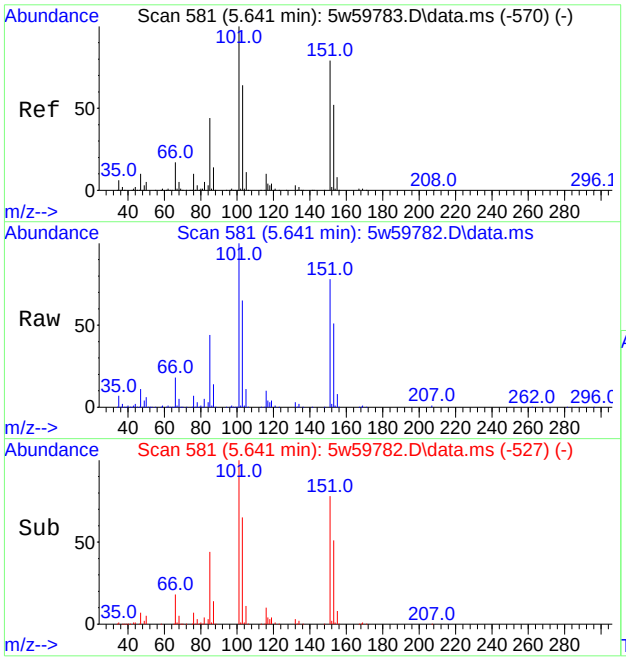


#32
3-CHLOROPROPENE
Concen: 4.99 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 110268

Ion	Ratio	Lower	Upper
76	100		
41	271.1	240.8	300.8
39	207.1	173.6	233.6
78	32.9	2.8	62.8

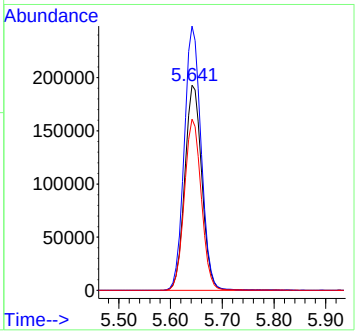


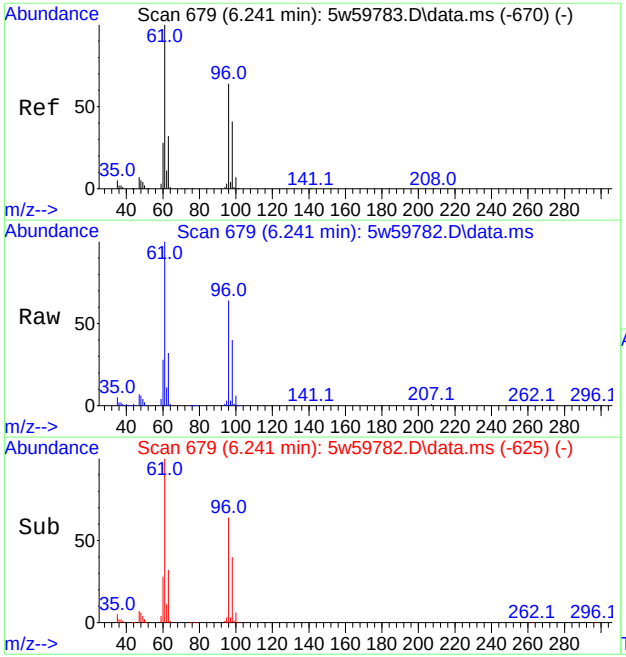


#33
FREON 113
Concen: 4.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:151 Resp: 441351

Ion	Ratio	Lower	Upper
151	100		
101	127.4	97.5	157.5
103	83.0	52.5	112.5

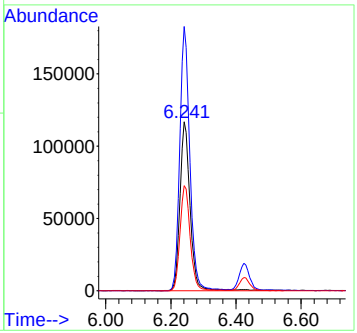


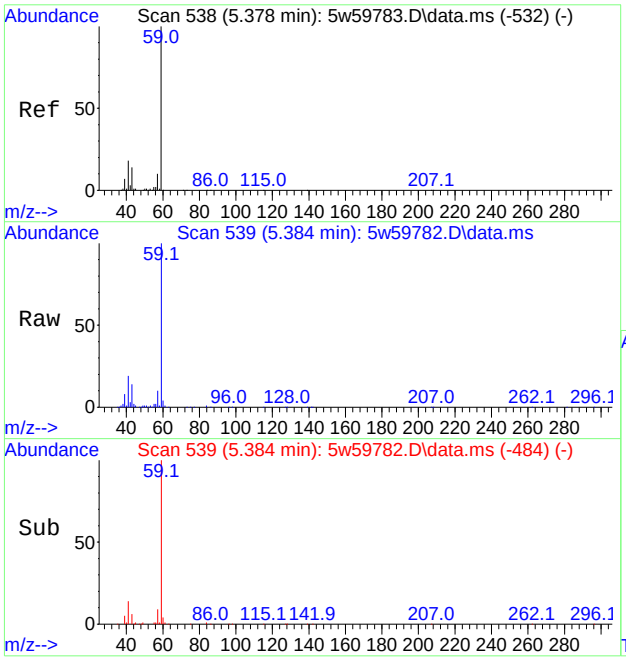


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 4.68 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 257488

Ion	Ratio	Lower	Upper
96	100		
61	152.8	126.4	186.4
98	62.3	34.1	94.1

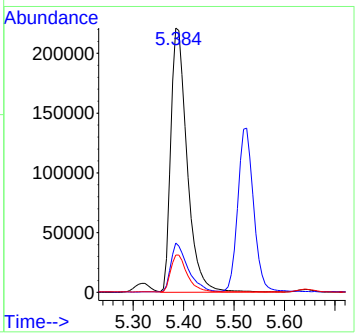


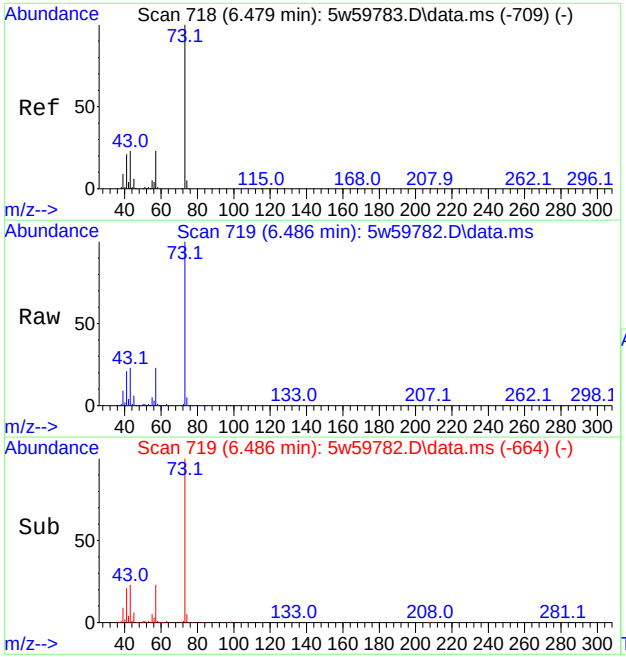


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.44 PPBV
RT: 5.384 min Scan# 539
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 498869

Ion	Ratio	Lower	Upper
59	100		
41	19.5	0.0	49.3
43	14.1	0.0	44.1

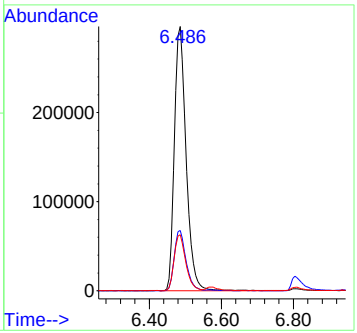


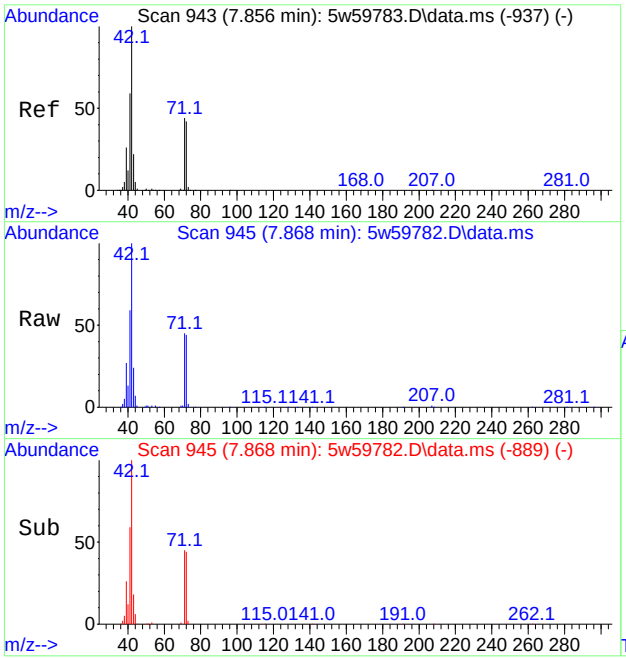


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.04 PPBV
RT: 6.486 min Scan# 719
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 73 Resp: 676684

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.9	0.0	50.6

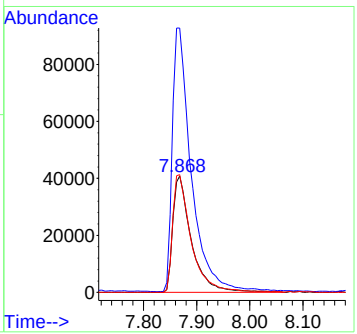


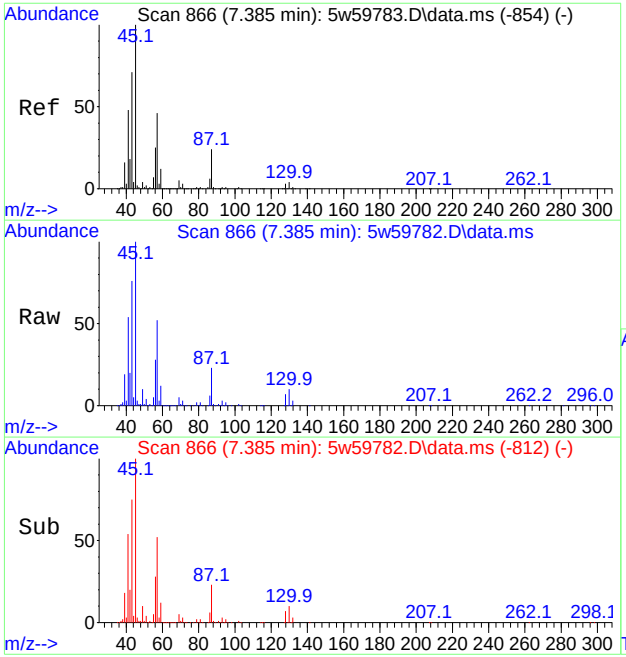


#37
TETRAHYDROFURAN
Concen: 5.53 PPBV
RT: 7.868 min Scan# 945
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 99619

Ion	Ratio	Lower	Upper
72	100		
42	231.9	202.4	262.4
71	101.4	71.1	131.1

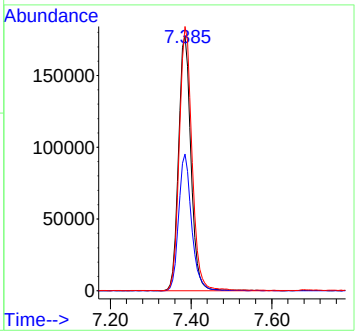


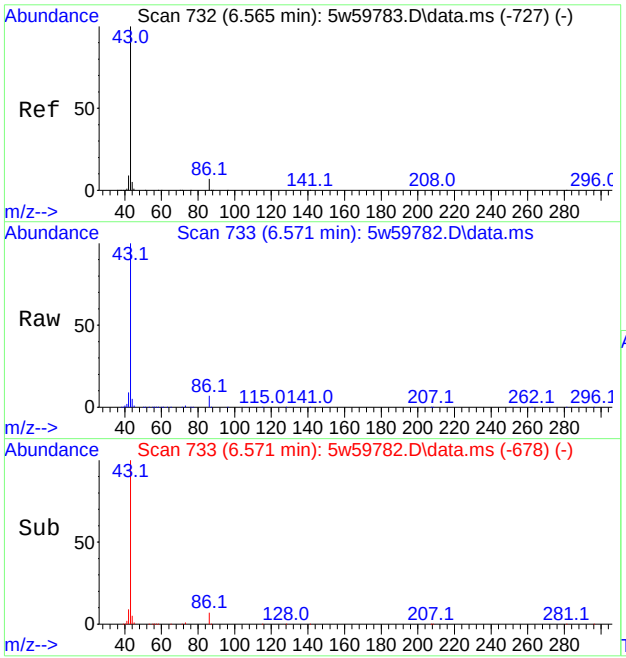


#38
HEXANE
Concen: 5.02 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 379941

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	106.7	74.7	134.7

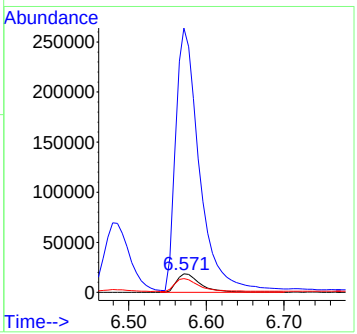




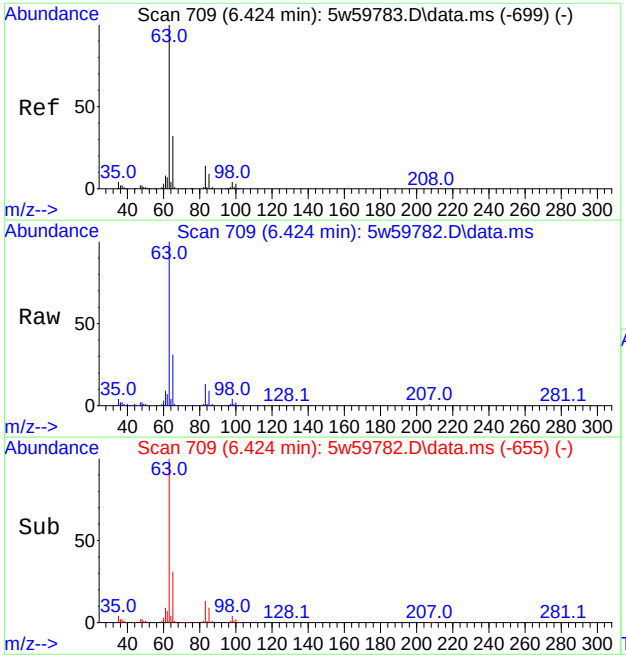
#39
VINYL ACETATE
Concen: 4.63 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 86 Resp: 40455

Ion	Ratio	Lower	Upper
86	100		
43	1388.3	1379.7	1439.7
44	68.5	36.9	96.9



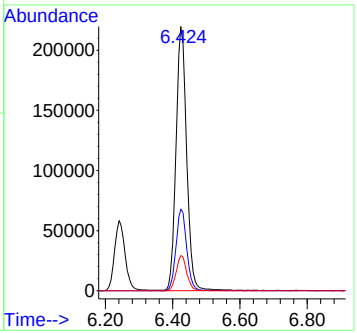
7.7.5

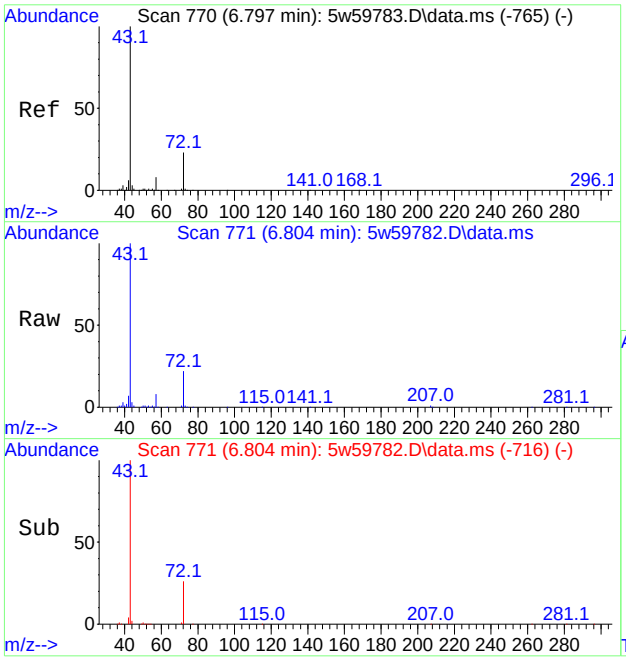


#40
1,1-DICHLOROETHANE
Concen: 4.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 482232

Ion	Ratio	Lower	Upper
63	100		
65	31.3	1.7	61.7
83	13.2	0.0	43.5

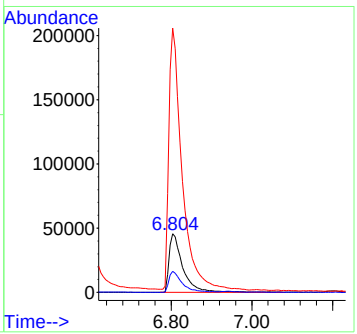


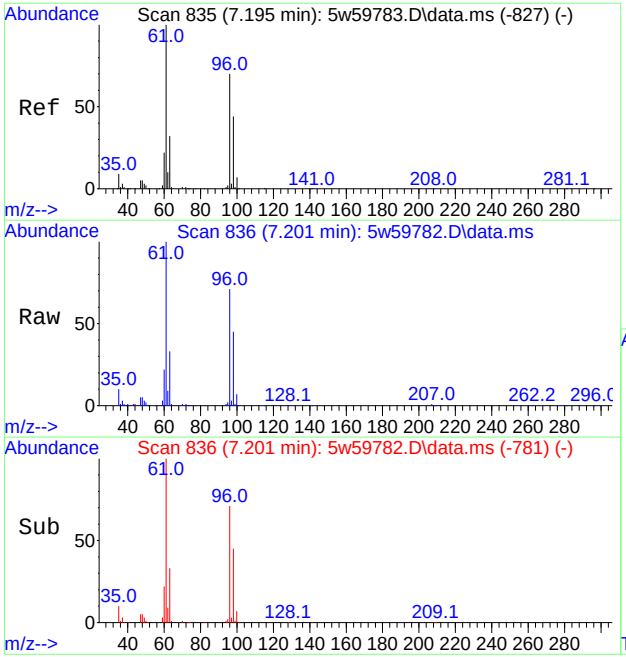


#41
METHYL ETHYL KETONE
Concen: 5.80 PPBV
RT: 6.804 min Scan# 771
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 72 Resp: 108805

Ion	Ratio	Lower	Upper
72	100		
57	35.8	4.8	64.8
43	450.4	415.9	475.9

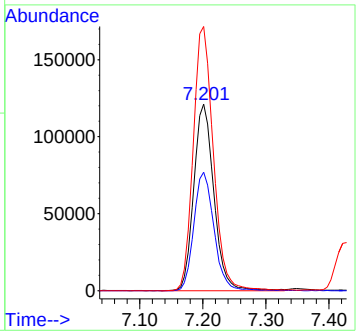


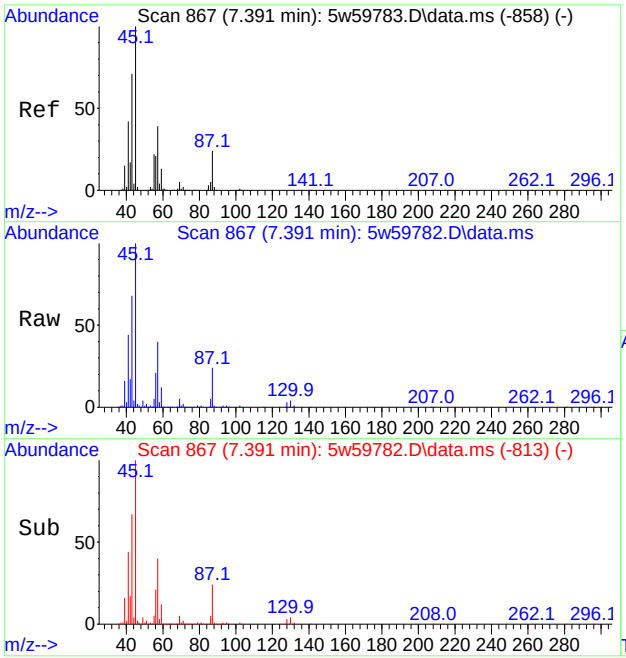


#42
cis-1,2-DICHLOROETHYLENE
Concen: 4.74 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 96 Resp: 269410

Ion	Ratio	Lower	Upper
96	100		
98	63.6	34.0	94.0
61	142.1	111.5	171.5

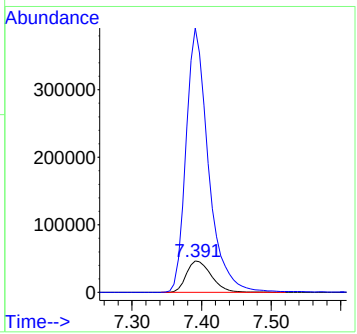


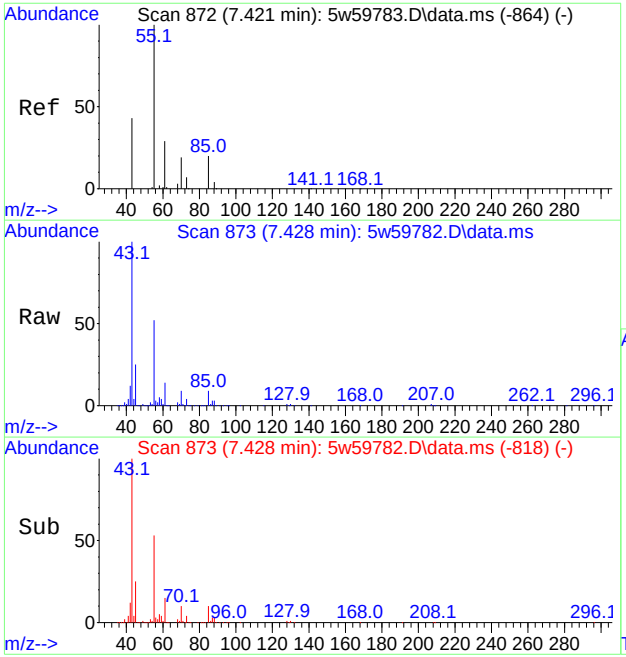


#43
DIISOPROPYL ETHER
Concen: 5.65 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 59 Resp: 116383

Ion	Ratio	Lower	Upper
59	100		
45	760.3	720.9	780.9

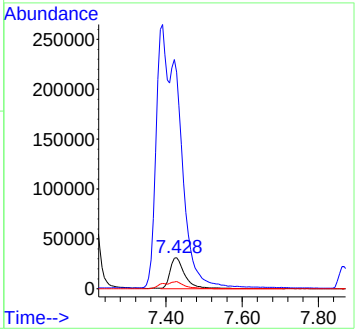


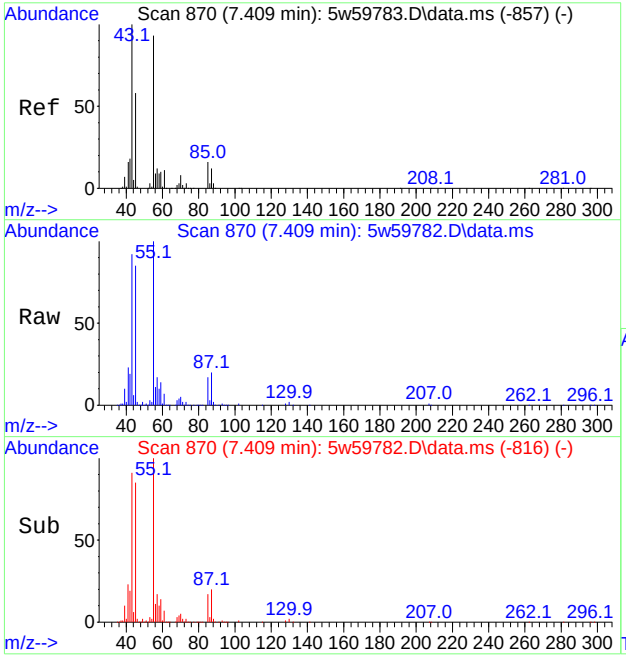


#44
ETHYL ACETATE
Concen: 5.60 PPBV m
RT: 7.428 min Scan# 873
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 61 Resp: 87258

Ion	Ratio	Lower	Upper
61	100		
43	636.4	560.5	620.5#
88	32.9	4.5	64.5

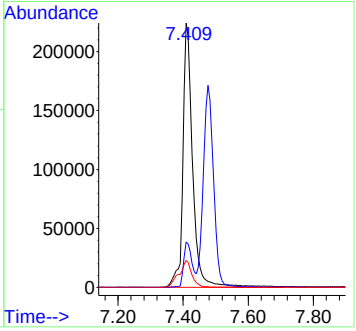


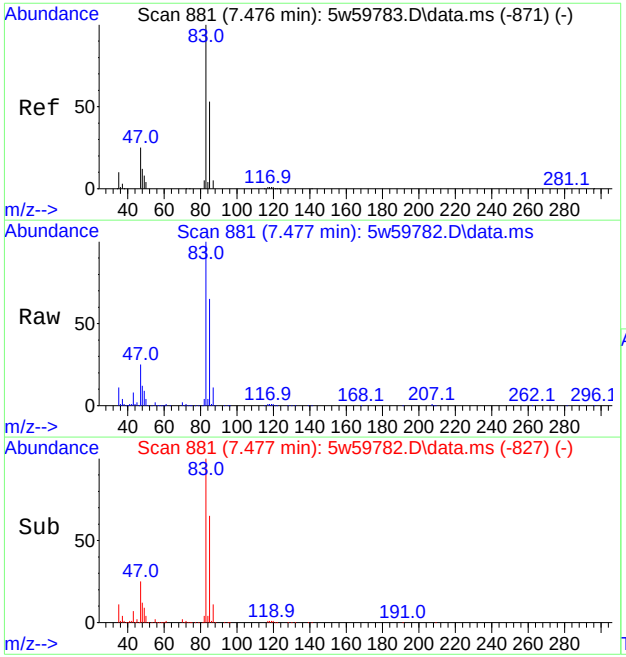


#45
METHYL ACRYLATE
Concen: 5.35 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 471994

Ion	Ratio	Lower	Upper
55	100		
85	15.0	10.9	20.3
58	13.3	9.4	17.6

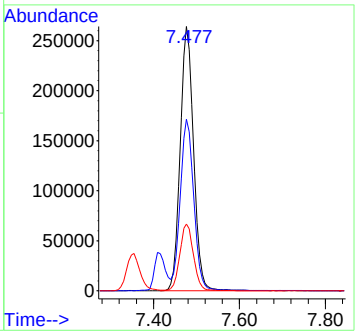


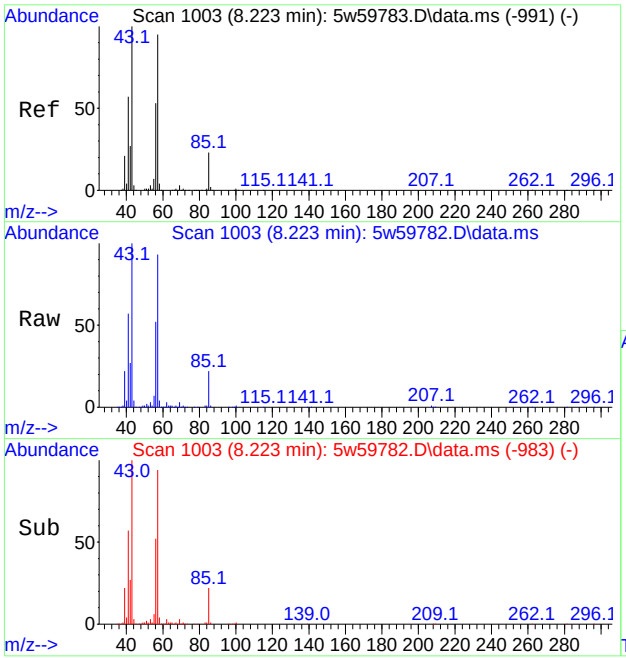


#46
CHLOROFORM
Concen: 4.95 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 570969

Ion	Ratio	Lower	Upper
83	100		
85	66.4	35.6	95.6
47	25.9	0.0	55.2

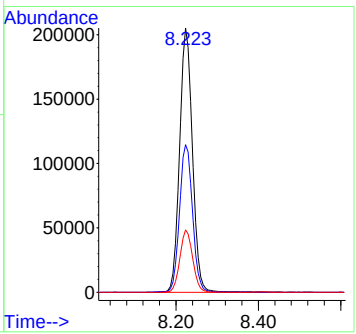




#47
2,4-DIMETHYLPENTANE
Concen: 5.08 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

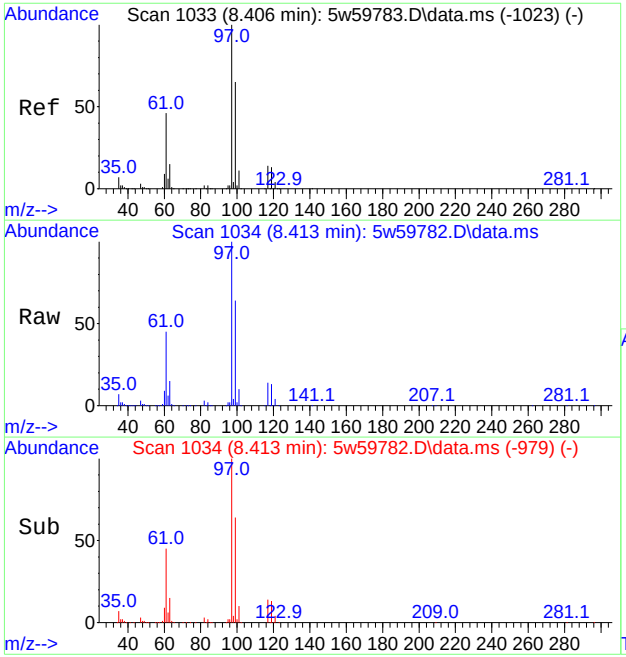
Tgt Ion: 57 Resp: 444023

Ion	Ratio	Lower	Upper
57	100		
56	57.0	26.5	86.5
85	23.7	0.0	53.8



7.7.5

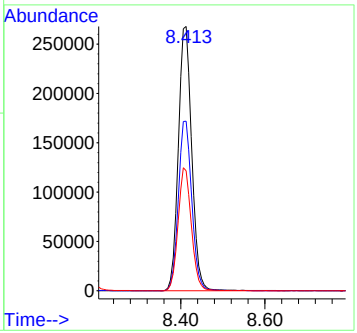
7

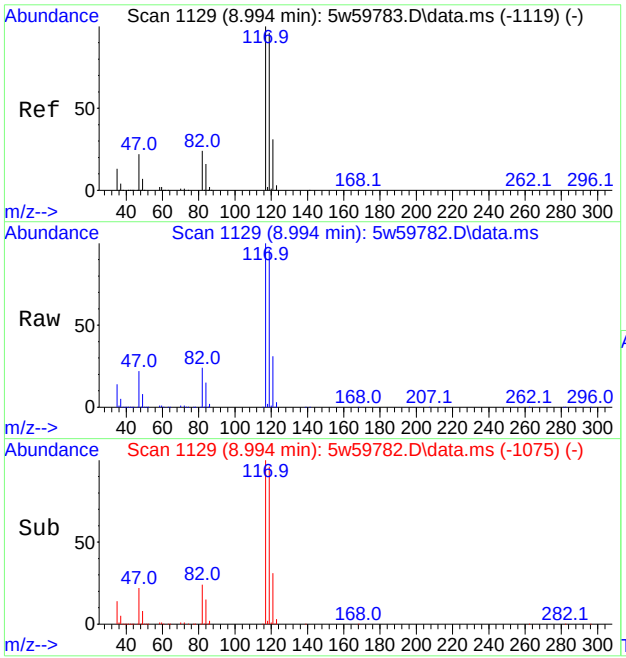


#48
1,1,1-TRICHLOROETHANE
Concen: 4.75 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 97 Resp: 592452

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.8	94.8
61	46.2	15.8	75.8

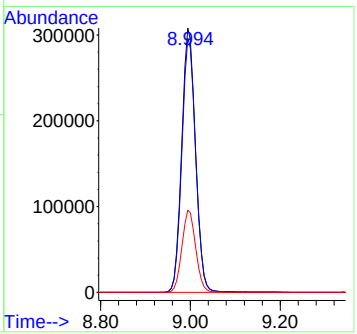


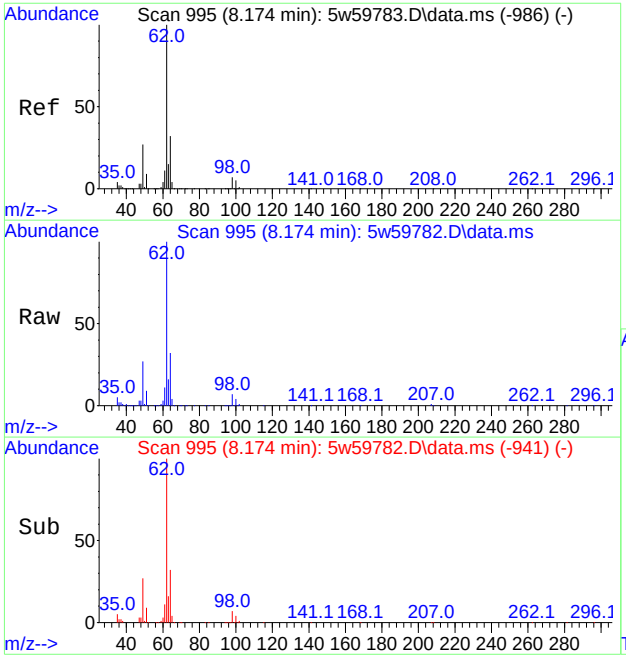


#49
CARBON TETRACHLORIDE
Concen: 4.82 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 658939

Ion	Ratio	Lower	Upper
117	100		
119	96.4	66.9	126.9
121	31.1	1.3	61.3

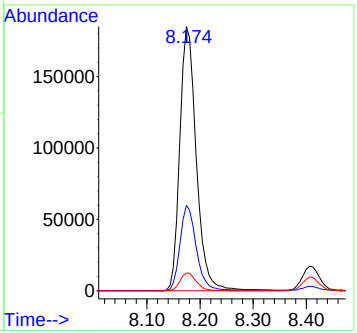


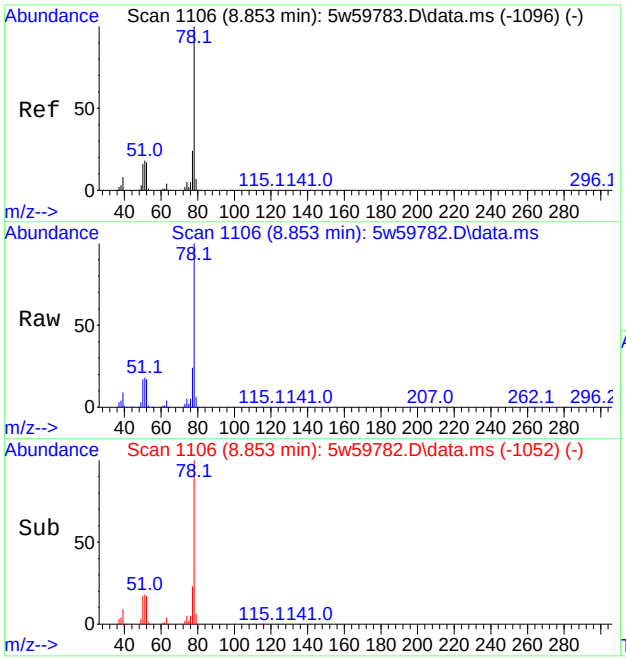


#50
1,2-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 62 Resp: 401494

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.7	0.0	36.9

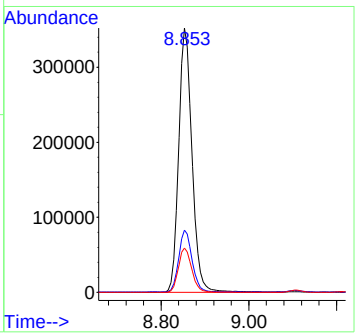


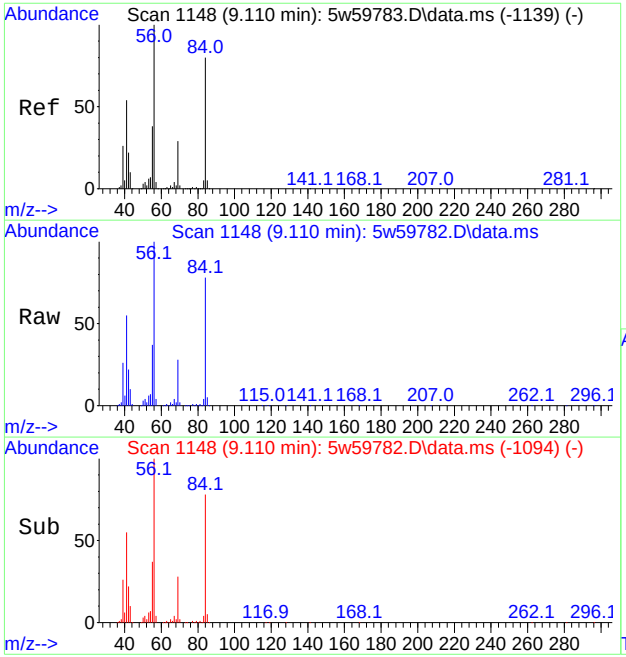


#52
BENZENE
Concen: 5.39 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 78 Resp: 741517

Ion	Ratio	Lower	Upper
78	100		
77	23.5	0.0	53.8
52	16.9	0.0	46.9

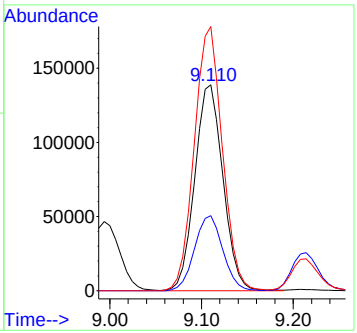


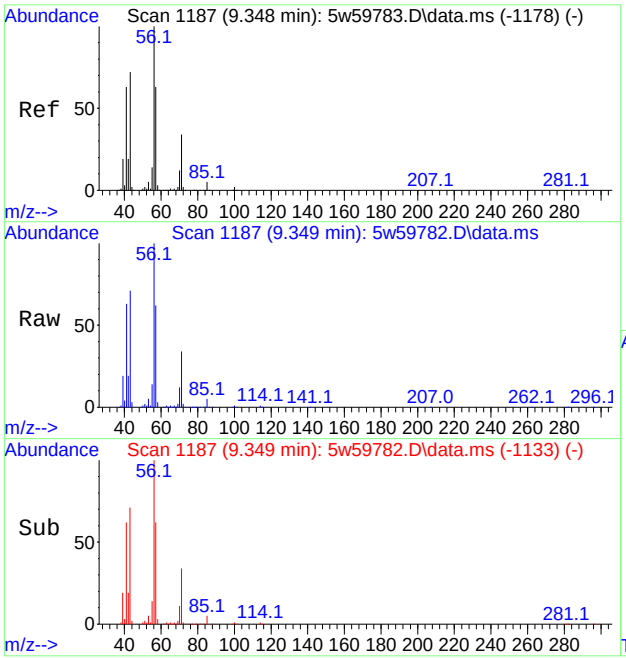


#53
CYCLOHEXANE
Concen: 5.48 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 84 Resp: 297316

Ion	Ratio	Lower	Upper
84	100		
69	36.6	6.9	66.9
56	127.4	98.2	158.2

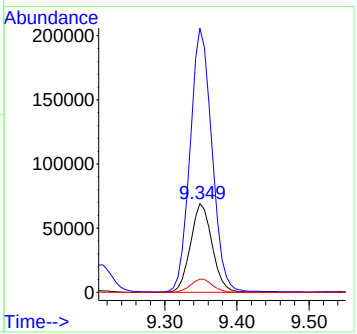


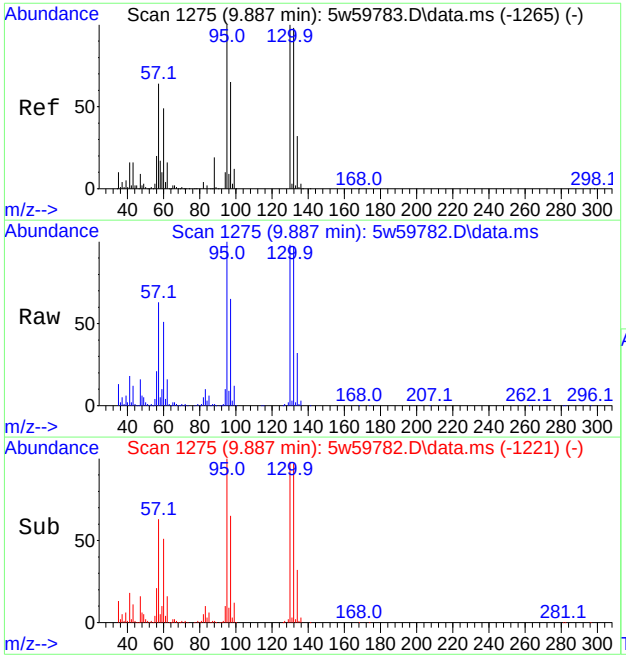


#54
2,3-DIMETHYLPENTANE
Concen: 5.25 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 71 Resp: 144492

Ion	Ratio	Lower	Upper
71	100		
56	300.3	264.6	324.6
85	15.2	0.0	45.3

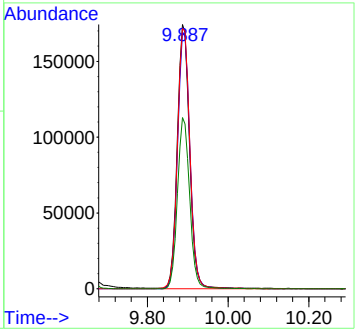


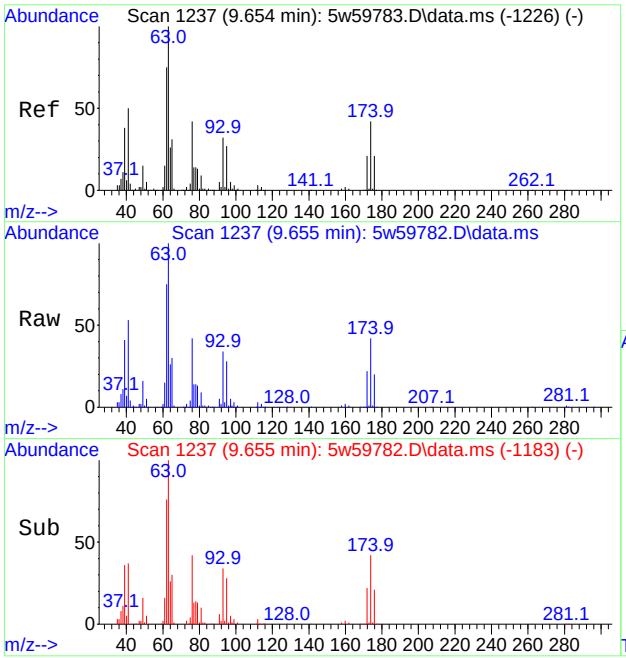


#55
TRICHLOROETHYLENE
Concen: 5.01 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 95 Resp: 369372

Ion	Ratio	Lower	Upper
95	100		
132	97.7	69.0	129.0
130	99.7	70.6	130.6
97	63.9	34.6	94.6

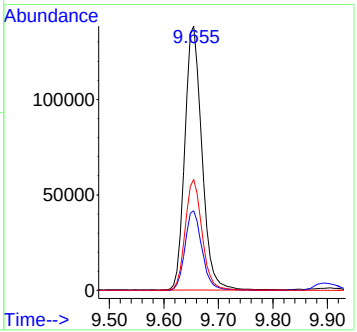


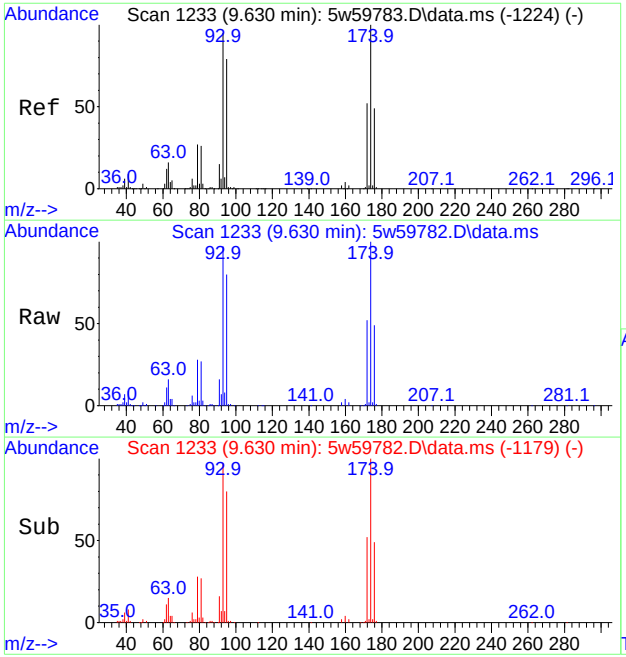


#56
1,2-DICHLOROPROPANE
Concen: 5.12 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 63 Resp: 300591

Ion	Ratio	Lower	Upper
63	100		
65	30.0	0.5	60.5
76	41.6	11.5	71.5

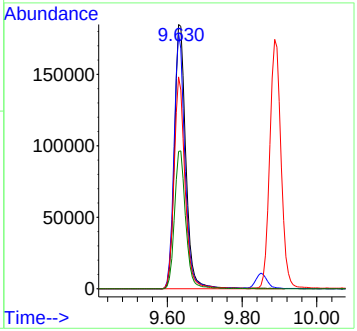


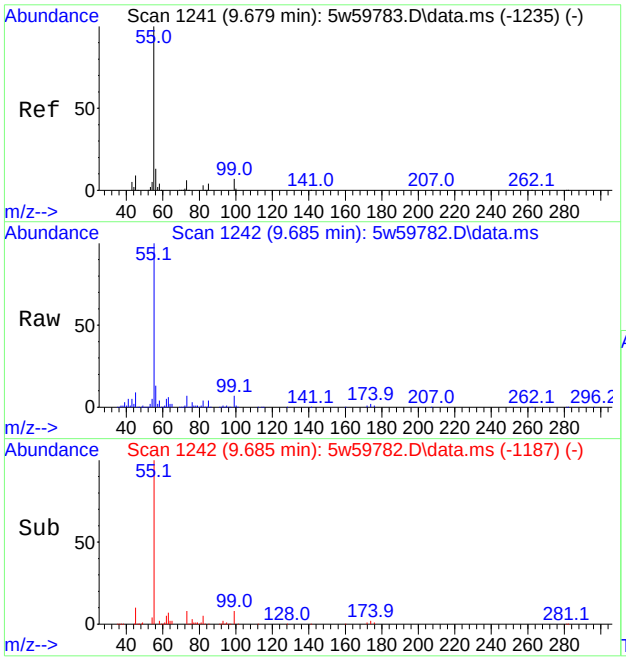


#57
DIBROMOMETHANE
Concen: 4.83 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:174 Resp: 391164

Ion	Ratio	Lower	Upper
174	100		
93	94.0	65.0	120.6
95	78.2	54.5	101.1
172	51.8	36.3	67.5

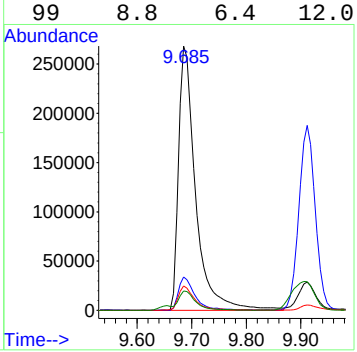


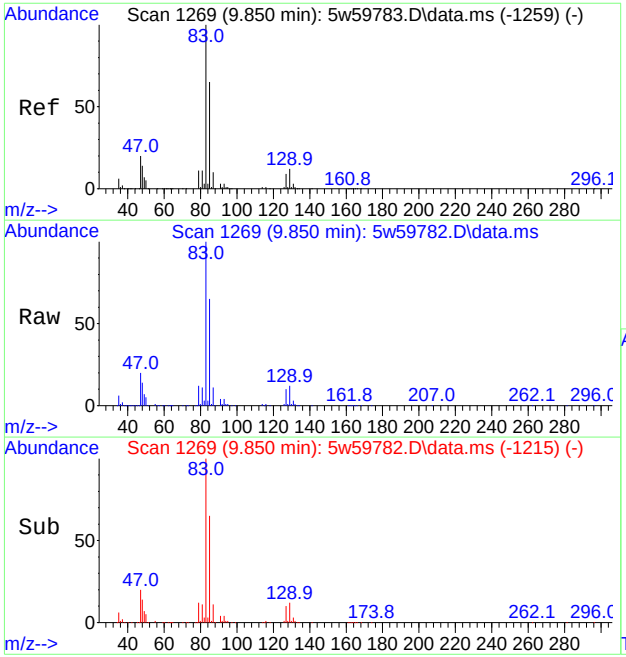


#58
ETHYL ACRYLATE
Concen: 5.68 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 55 Resp: 582502

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.5	6.6	12.2
99	8.8	6.4	12.0

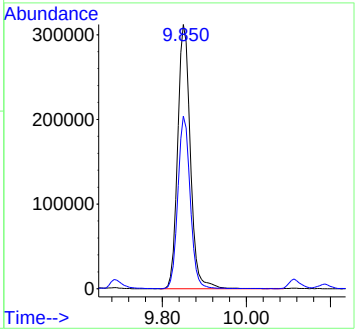


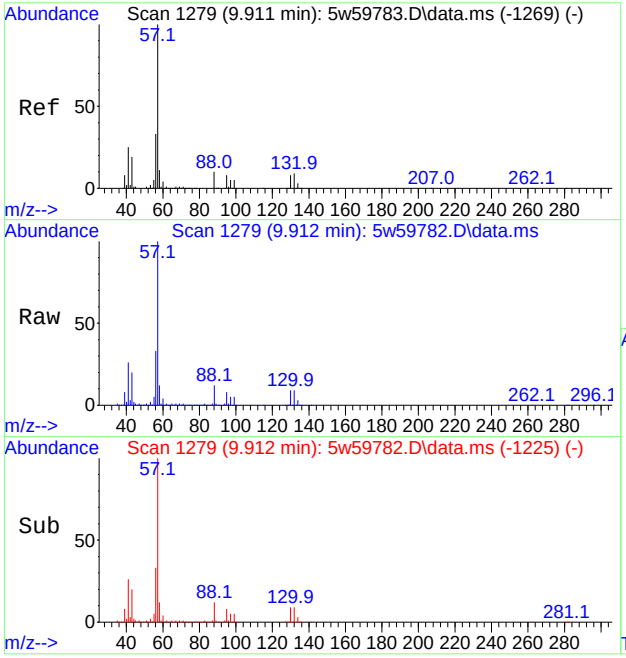


#59
BROMODICHLOROMETHANE
Concen: 5.05 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 653402

Ion	Ratio	Lower	Upper
83	100		
85	63.8	33.4	93.4

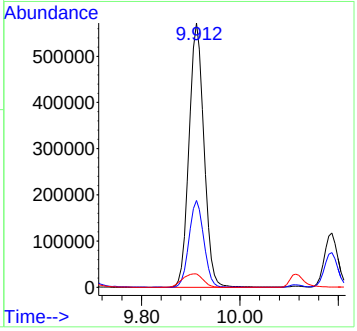


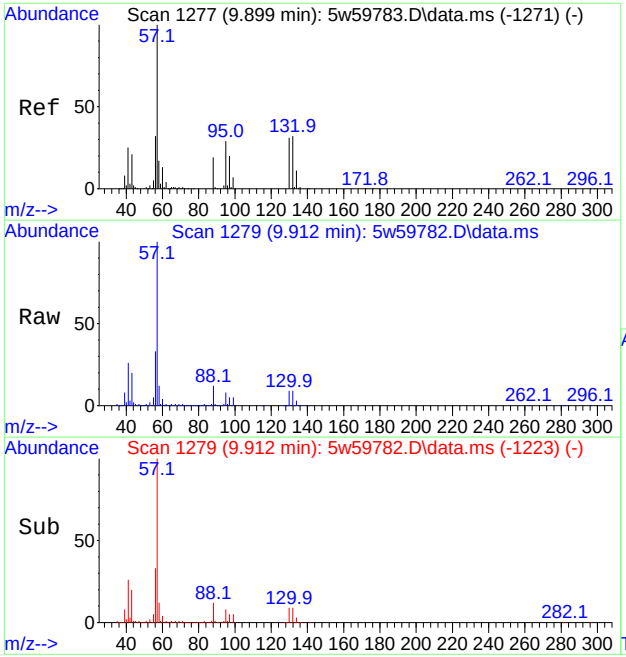


#60
2,2,4-TRIMETHYLPENTANE
Concen: 5.26 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 57 Resp: 1206122

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.2	0.0	37.3

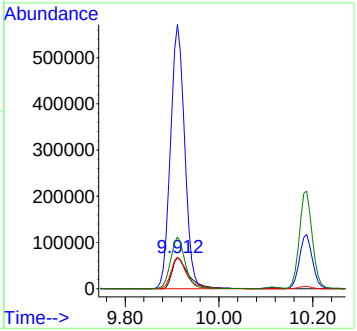


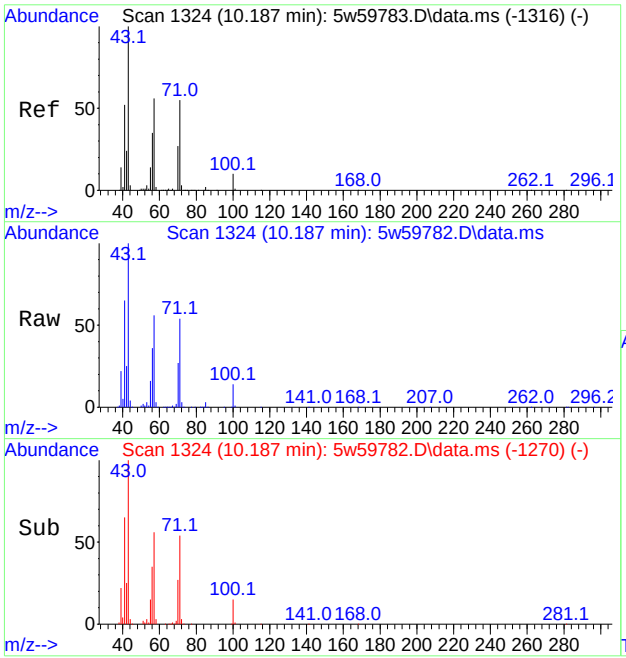


#61
1,4-DIOXANE
Concen: 5.89 PPBV
RT: 9.912 min Scan# 1279
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 88 Resp: 168473

Ion	Ratio	Lower	Upper
88	100		
57	845.3	494.2	554.2#
58	100.5	58.9	118.9
43	165.6	78.3	138.3#

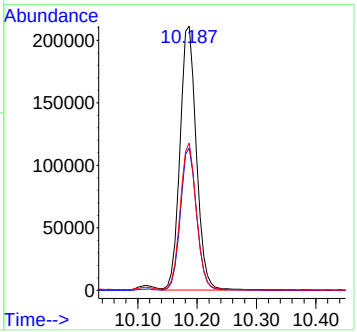


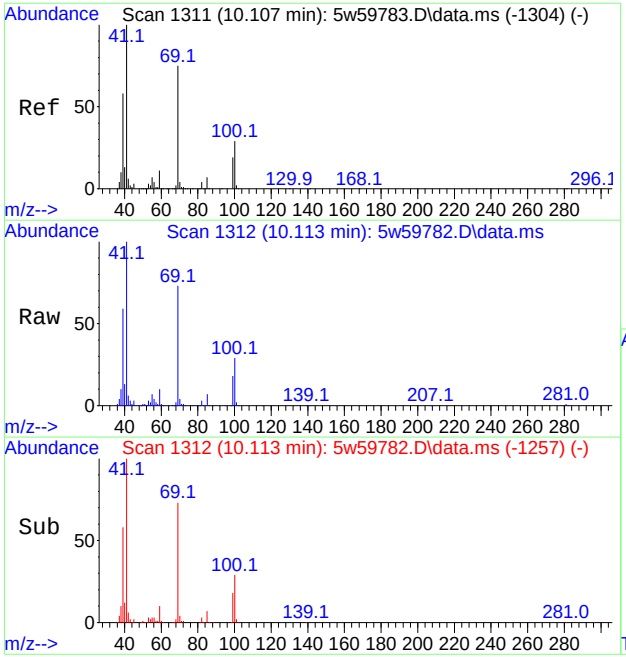


#62
HEPTANE
Concen: 4.93 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 406924

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.4	26.2	86.2

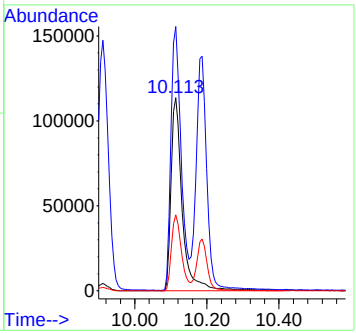


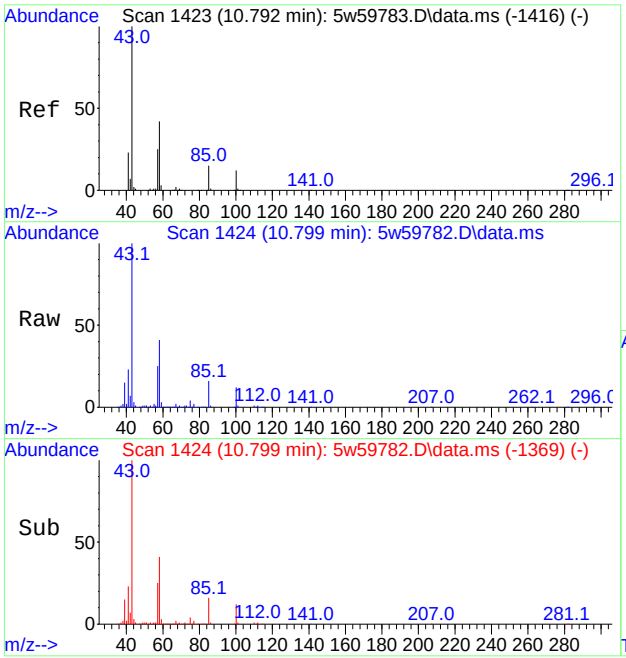


#63
METHYL METHACRYLATE
Concen: 5.84 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 247000

Ion	Ratio	Lower	Upper
69	100		
41	122.1	95.3	155.3
100	35.3	6.3	66.3

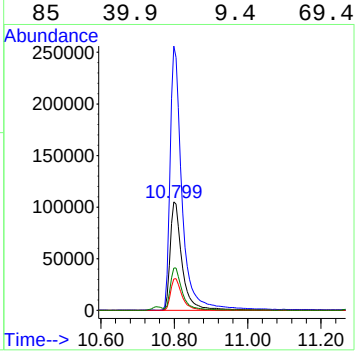


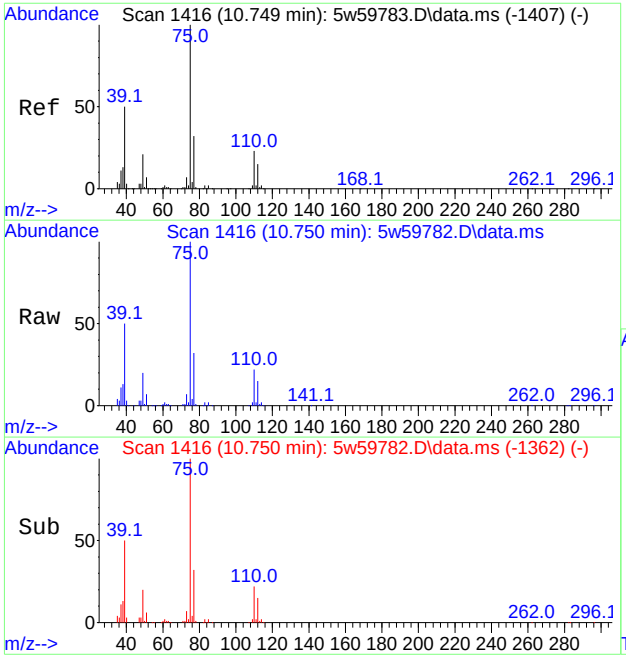


#64
METHYL ISOBUTYL KETONE
Concen: 5.60 PPBV
RT: 10.799 min Scan# 1424
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 240795

Ion	Ratio	Lower	Upper
58	100		
43	242.6	209.2	269.2
100	29.0	0.0	58.8
85	39.9	9.4	69.4

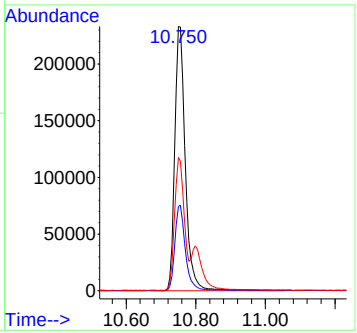


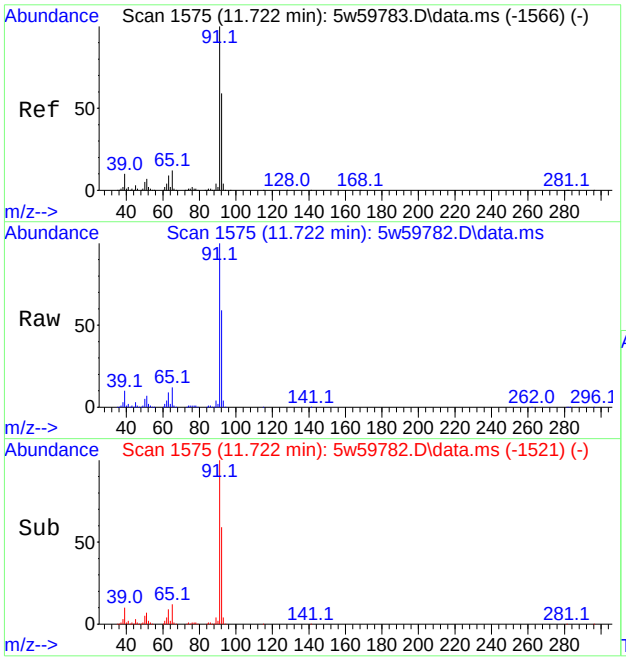


#65
cis-1,3-DICHLOROPROPENE
Concen: 5.47 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 494703

Ion	Ratio	Lower	Upper
75	100		
77	31.7	2.2	62.2
39	48.4	34.3	94.3

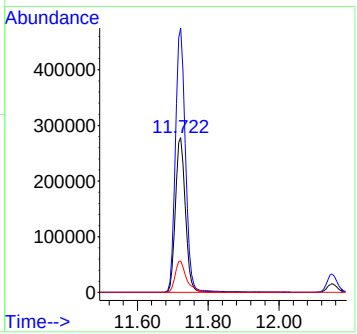


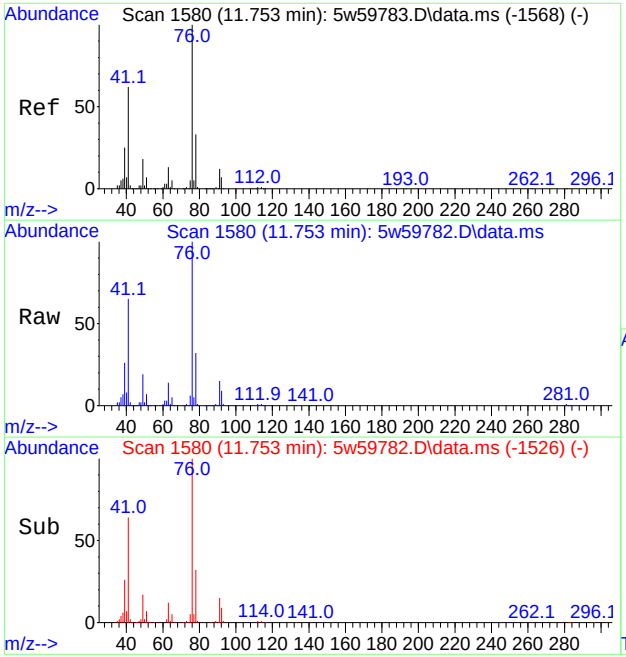


#66
TOLUENE
Concen: 5.55 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 92 Resp: 547474

Ion	Ratio	Lower	Upper
92	100		
91	170.9	140.1	200.1
65	23.1	0.0	53.1

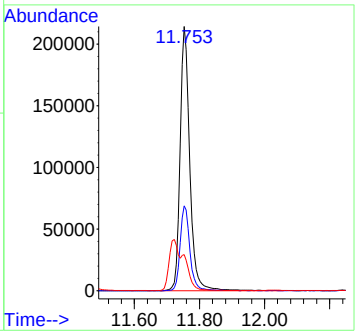


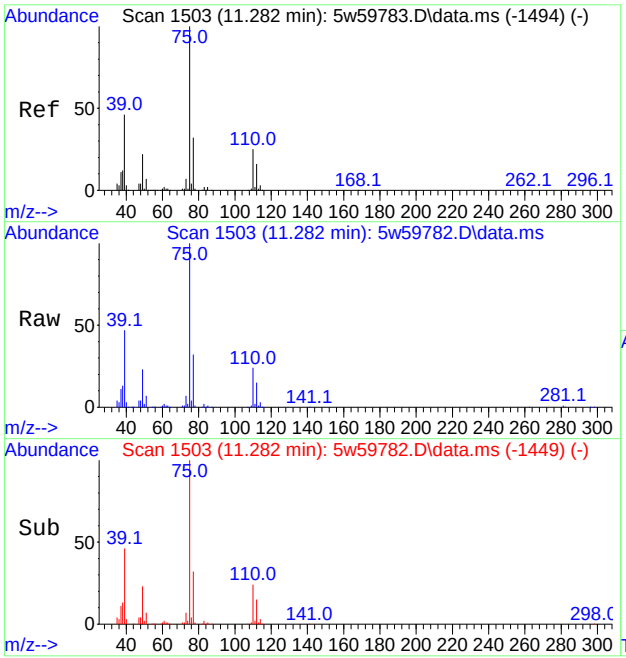


#67
1,3-DICHLOROPROPANE
Concen: 5.43 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 76 Resp: 446082

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	11.2	7.1	13.1

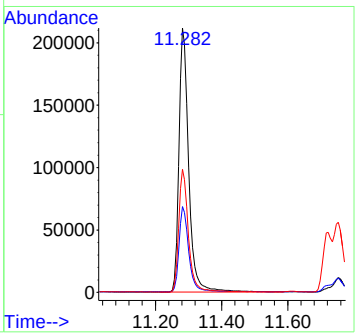


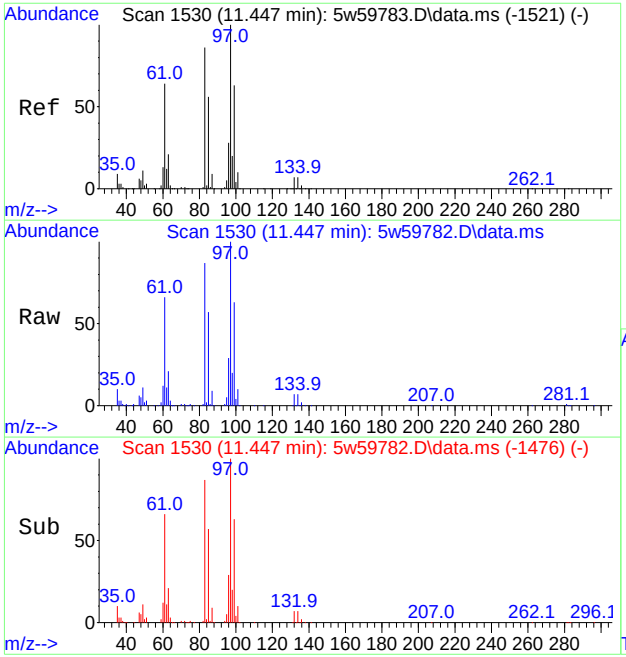


#68
trans-1,3-DICHLOROPROPENE
Concen: 5.29 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 434584

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	46.8	16.1	76.1

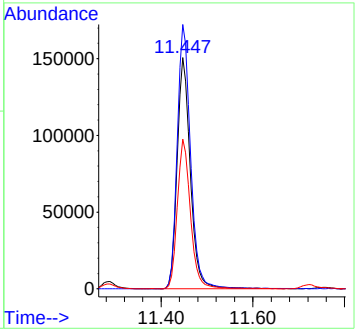


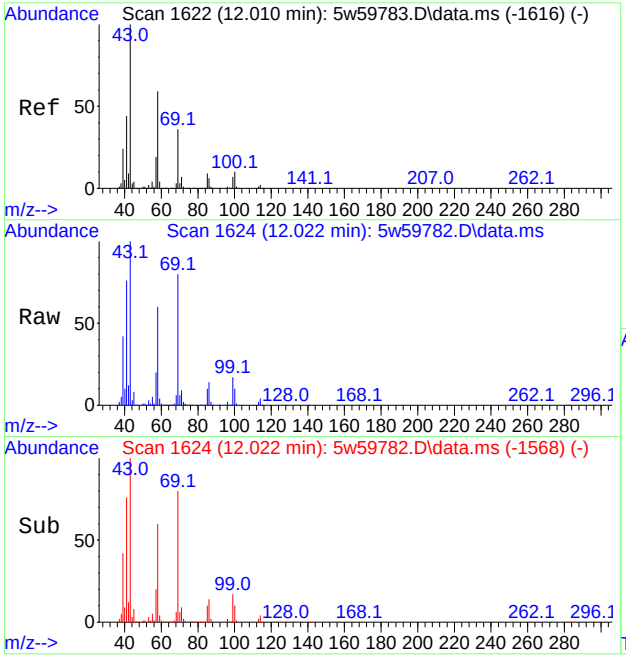


#69
1,1,2-TRICHLOROETHANE
Concen: 5.53 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 301561

Ion	Ratio	Lower	Upper
83	100		
97	115.8	86.3	146.3
85	64.7	35.3	95.3

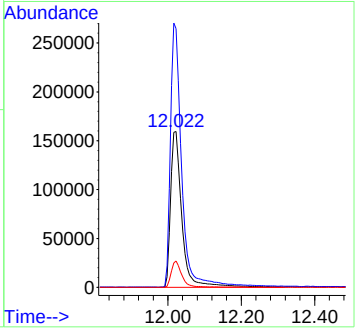


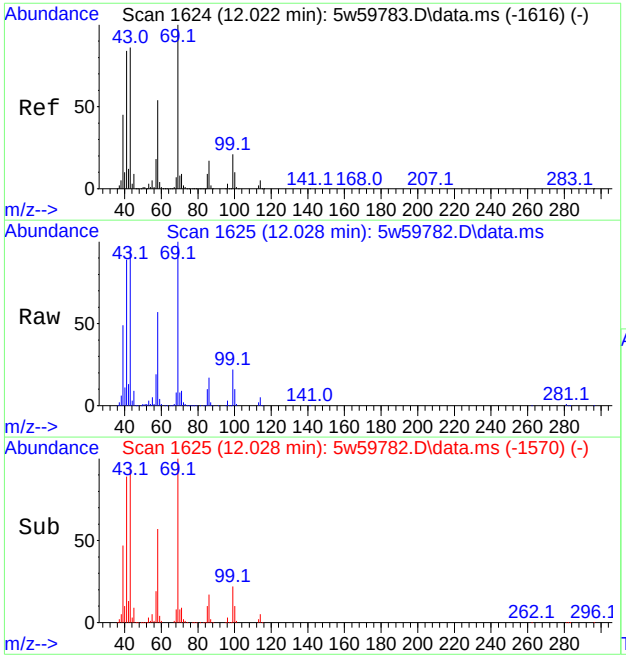


#71
2-HEXANONE
Concen: 6.43 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.012 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 58 Resp: 344921

Ion	Ratio	Lower	Upper
58	100		
43	169.0	137.2	197.2
100	16.2	0.0	46.9

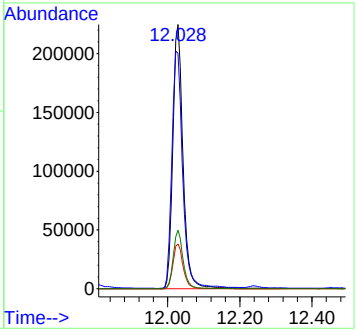


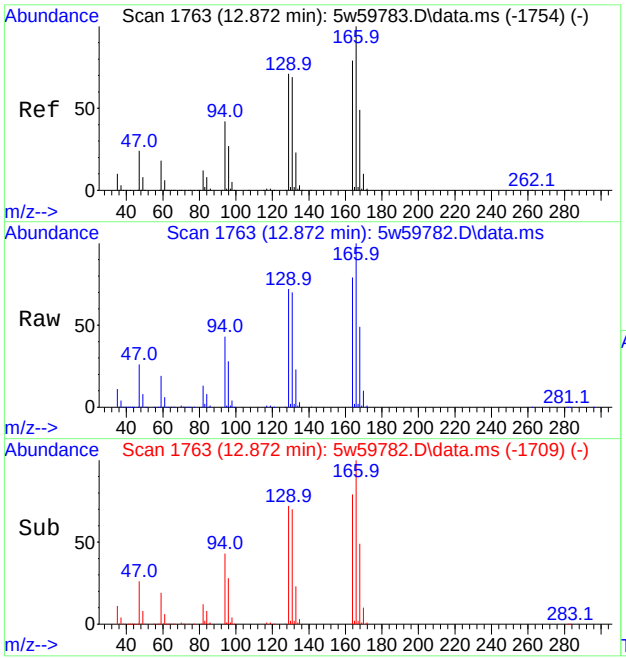


#72
ETHYL METHACRYLATE
Concen: 6.46 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 69 Resp: 445397

Ion	Ratio	Lower	Upper
69	100		
41	94.9	64.0	119.0
86	16.9	12.0	22.4
99	21.6	15.0	27.8

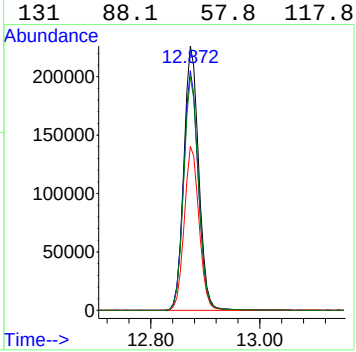


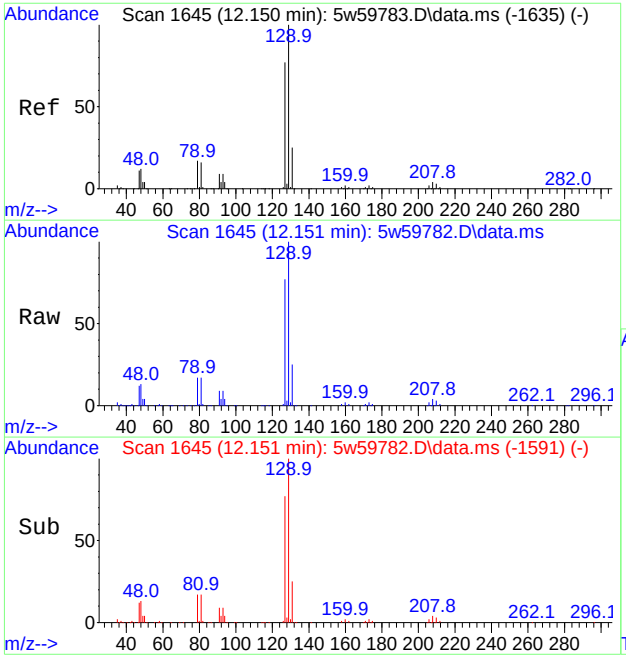


#73
TETRACHLOROETHYLENE
Concen: 5.33 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:164 Resp: 427336

Ion	Ratio	Lower	Upper
164	100		
129	90.2	59.7	119.7
168	62.2	32.2	92.2
131	88.1	57.8	117.8

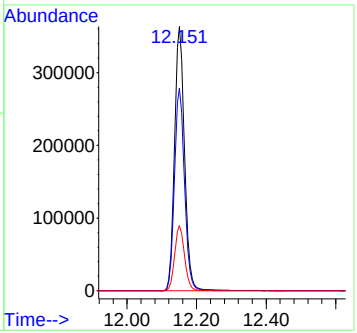


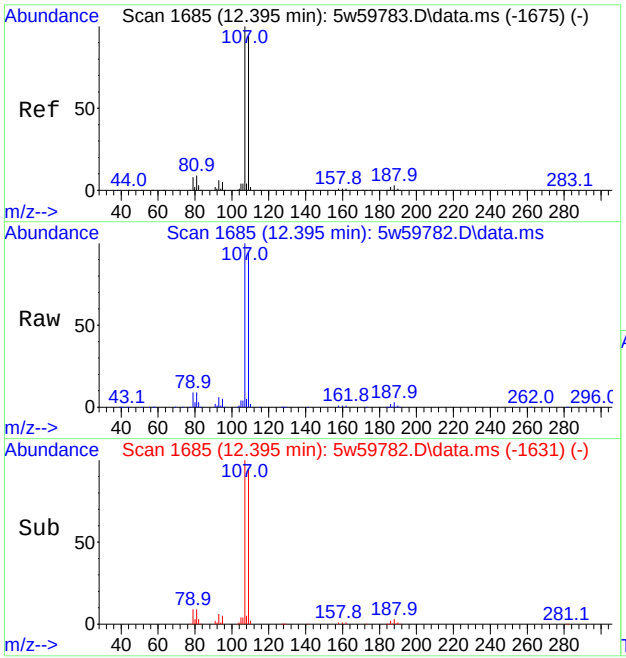


#74
DIBROMOCHLOROMETHANE
Concen: 5.41 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:129 Resp: 728217

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.5	0.0	54.5

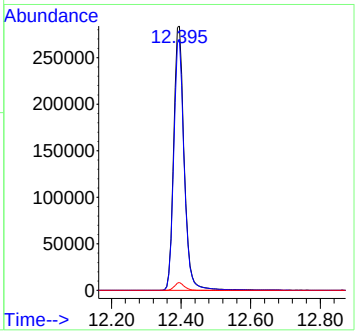


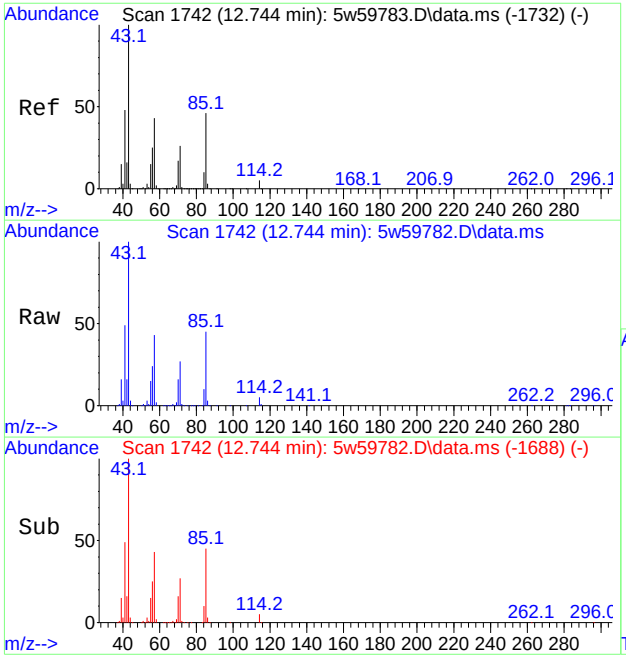


#75
1,2-DIBROMOETHANE
Concen: 5.98 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:107 Resp: 595110

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

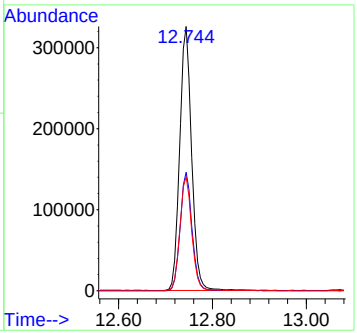


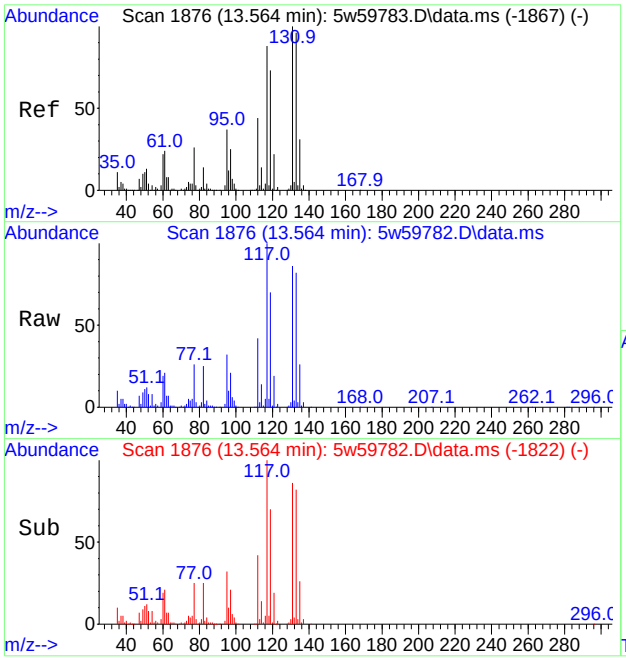


#76
OCTANE
Concen: 5.29 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 576898

Ion	Ratio	Lower	Upper
43	100		
85	44.8	14.6	74.6
57	43.5	13.7	73.7

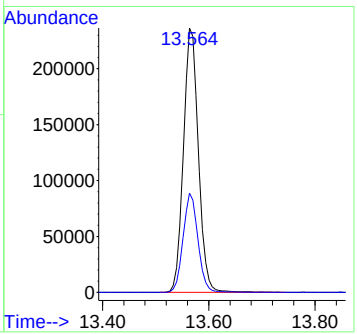


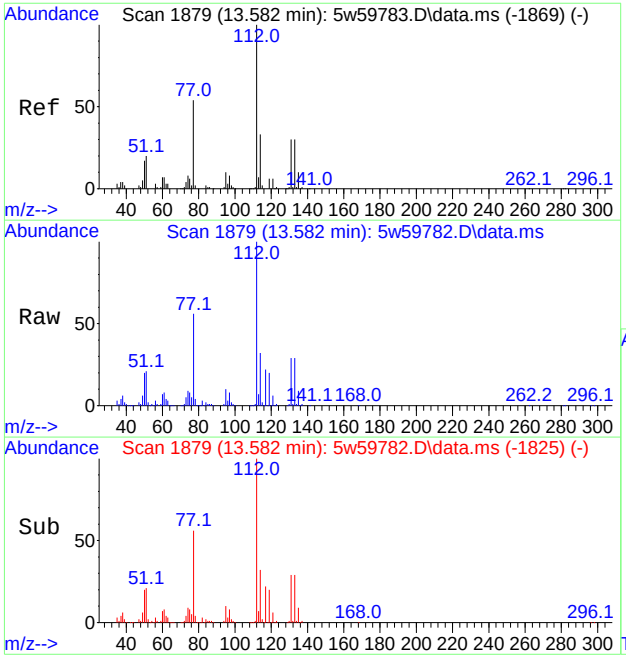


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.26 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:131 Resp: 463451

Ion	Ratio	Lower	Upper
131	100		
95	37.2	6.5	66.5

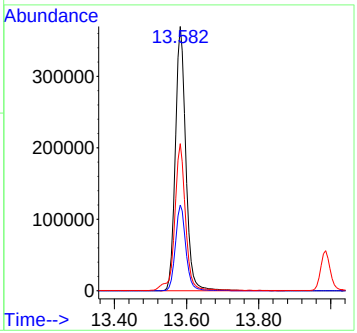


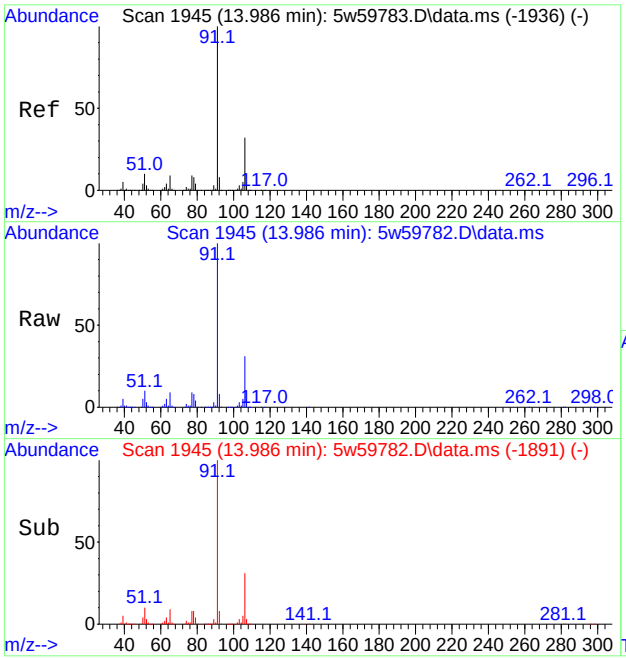


#78
CHLOROBENZENE
Concen: 5.17 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:112 Resp: 750075

Ion	Ratio	Lower	Upper
112	100		
114	32.5	2.6	62.6
77	57.4	25.4	85.4

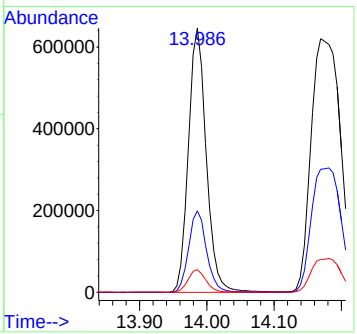


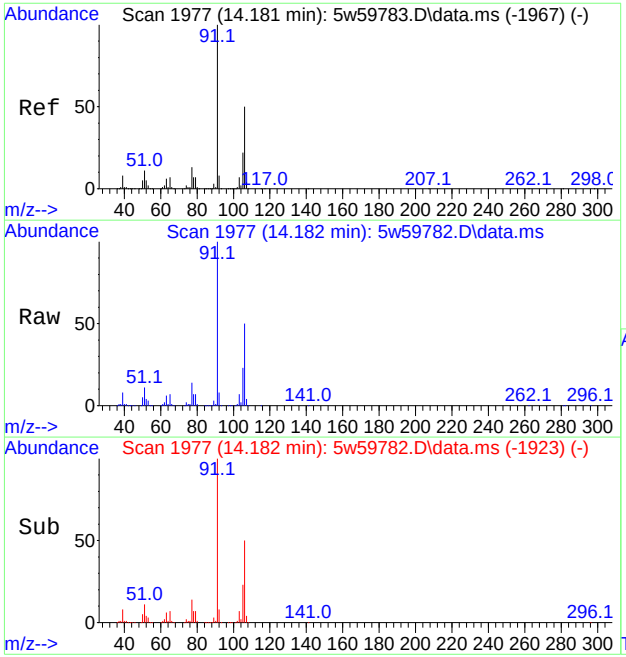


#79
ETHYLBENZENE
Concen: 5.80 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1198151

Ion	Ratio	Lower	Upper
91	100		
106	31.0	1.3	61.3
77	8.6	0.0	38.6

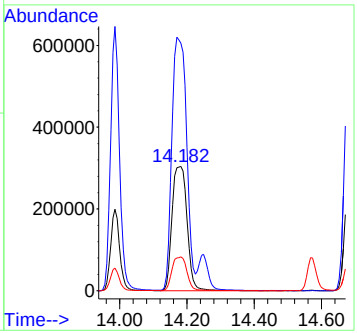


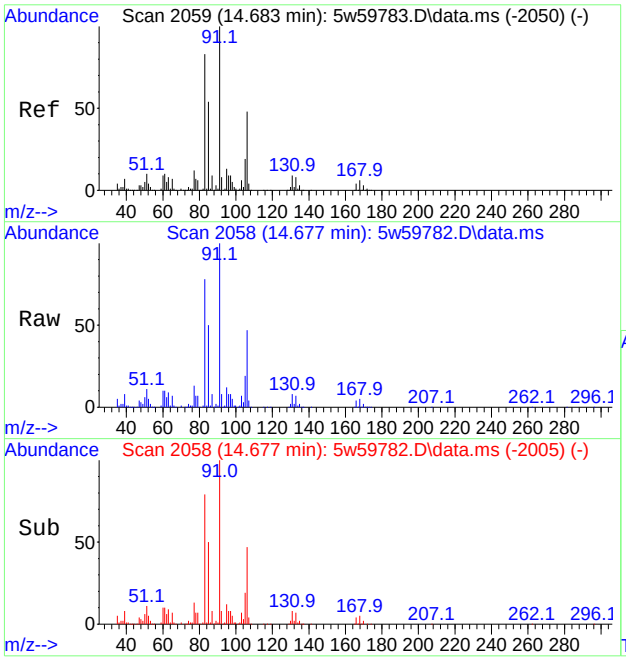


#80
m,p-XYLENE
Concen: 11.83 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 943241

Ion	Ratio	Lower	Upper
106	100		
91	199.4	171.0	231.0
77	27.3	0.0	56.7

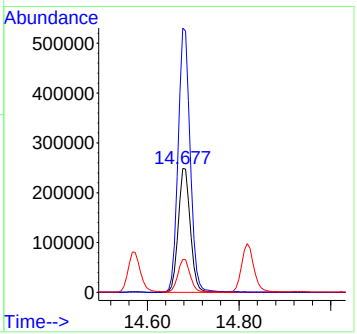


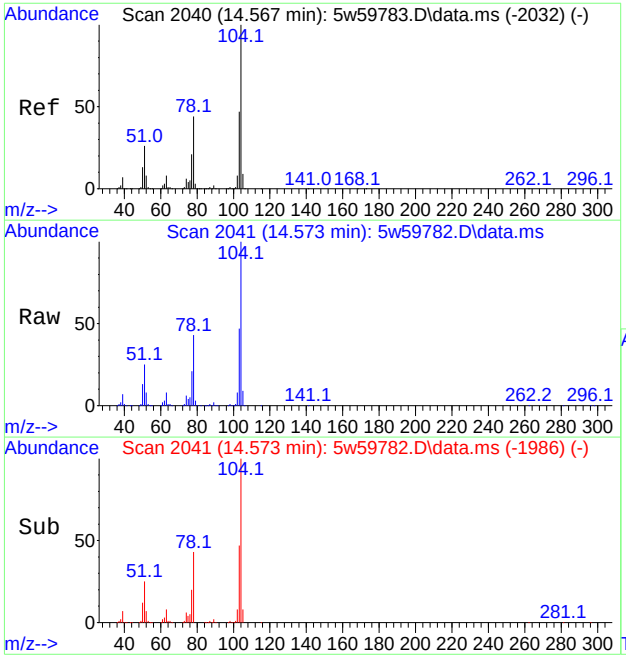


#81
o-XYLENE
Concen: 6.21 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:106 Resp: 456348

Ion	Ratio	Lower	Upper
106	100		
91	212.0	181.6	241.6
77	27.1	0.0	56.6

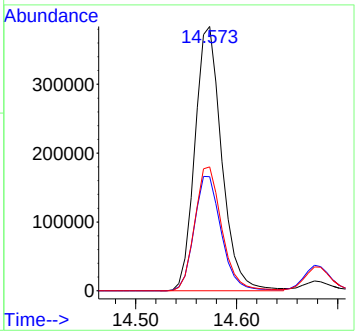


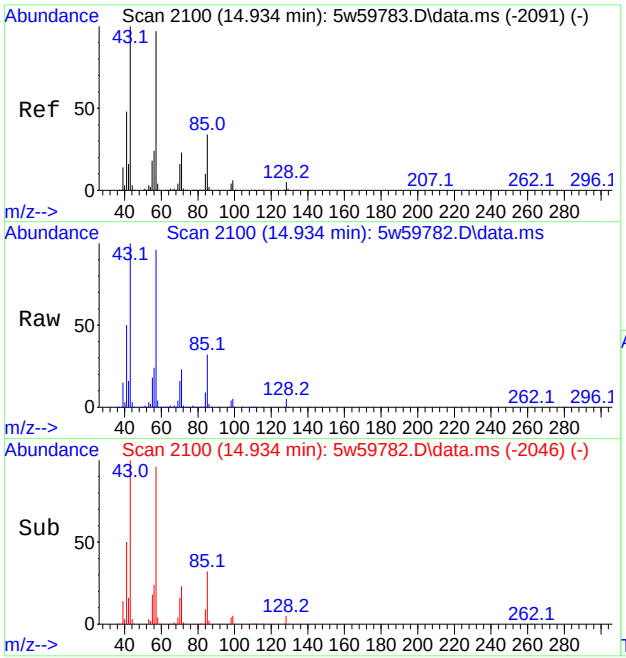


#82
STYRENE
Concen: 6.37 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:104 Resp: 711140

Ion	Ratio	Lower	Upper
104	100		
78	43.6	13.3	73.3
103	47.1	17.2	77.2

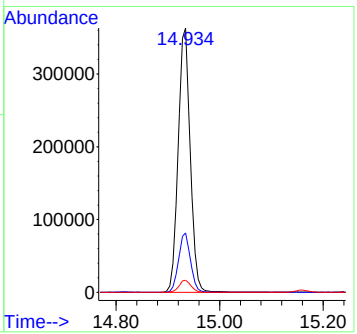


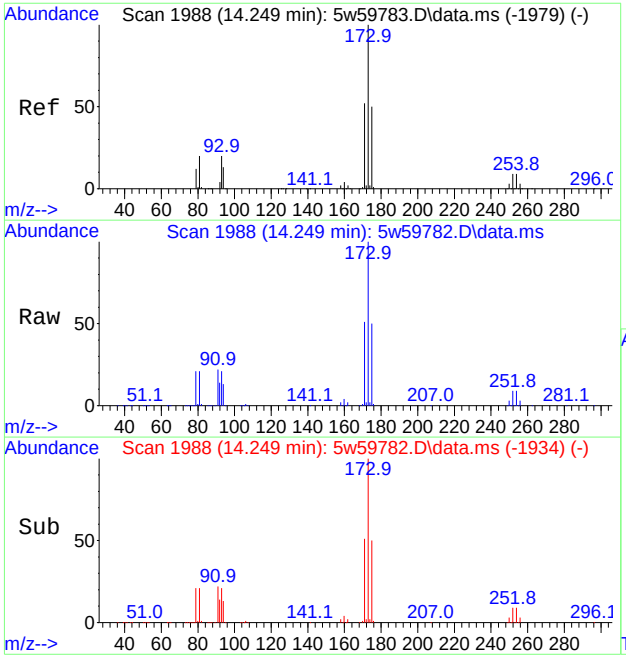


#83
NONANE
Concen: 5.44 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 43 Resp: 586796

Ion	Ratio	Lower	Upper
43	100		
71	22.3	0.0	52.7
128	4.6	0.0	34.7

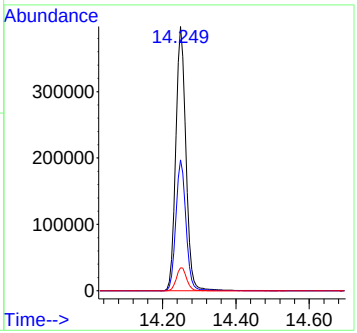


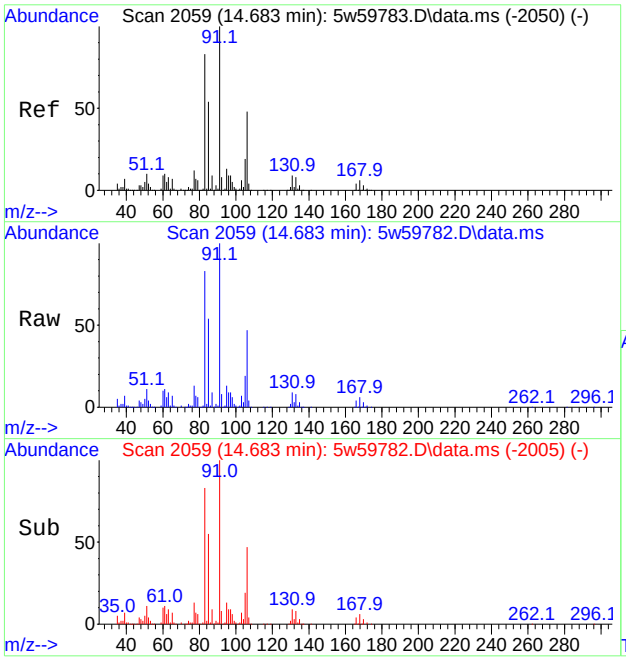


#84
BROMOFORM
Concen: 5.54 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:173 Resp: 765790

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	8.9	0.0	39.0

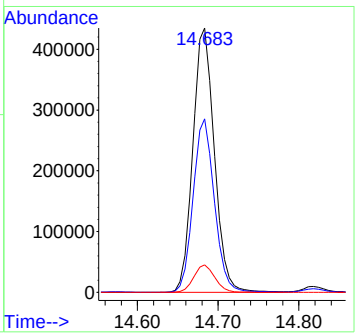


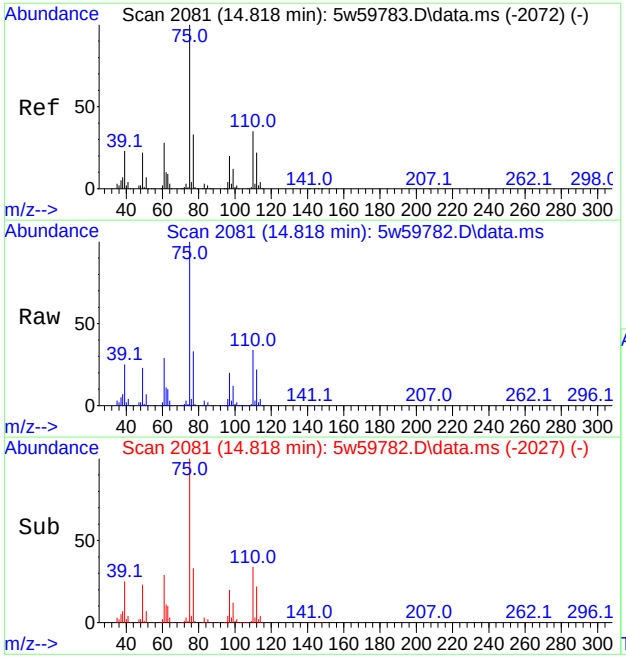


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 6.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 83 Resp: 804240

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.2	95.2
131	10.3	0.0	40.3

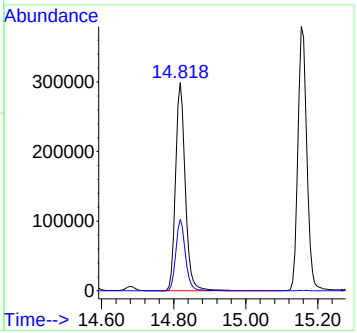


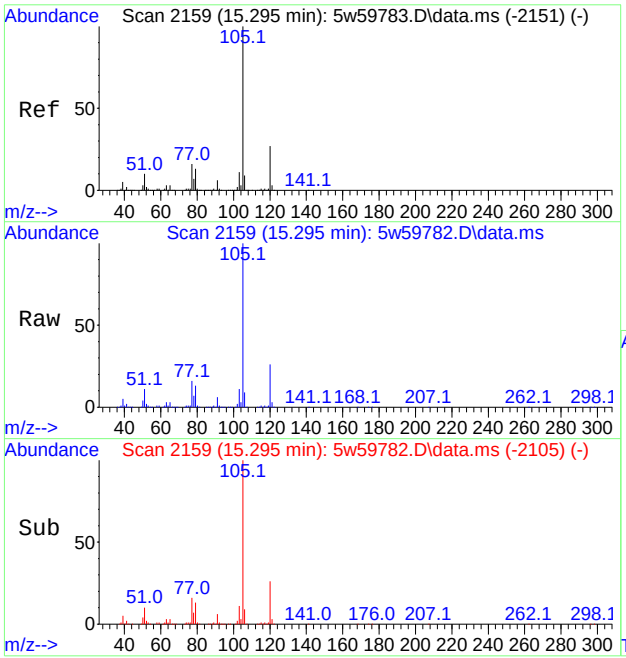


#87
1,2,3-TRICHLOROPROPANE
Concen: 5.21 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 75 Resp: 563086

Ion	Ratio	Lower	Upper
75	100		
110	34.0	4.4	64.4

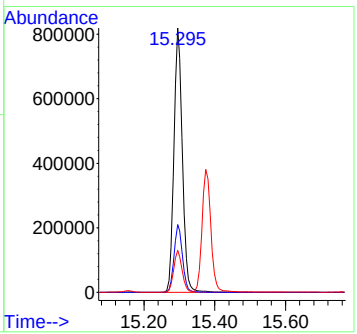


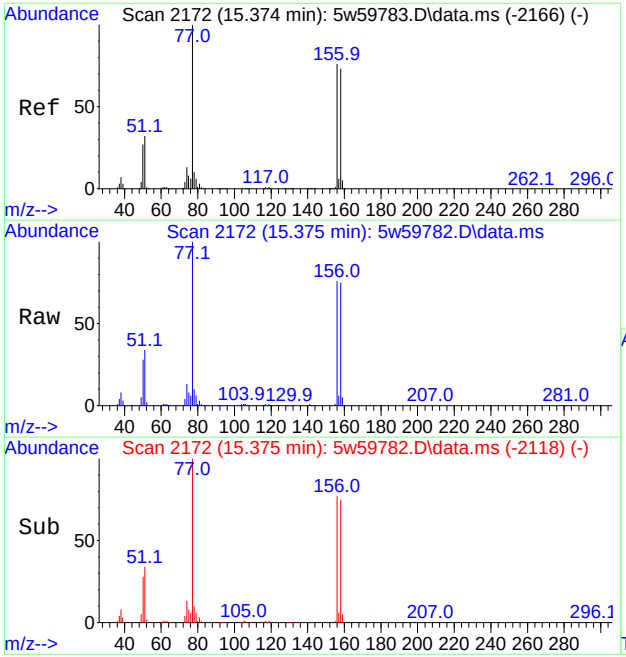


#88
ISOPROPYLBENZENE
Concen: 5.60 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1351649

Ion	Ratio	Lower	Upper
105	100		
120	25.7	0.0	56.0
77	15.5	0.0	45.6

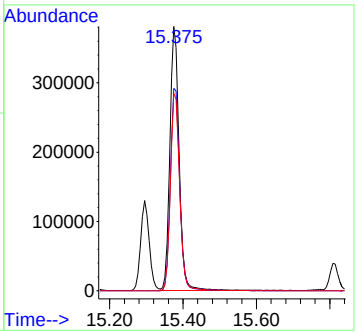


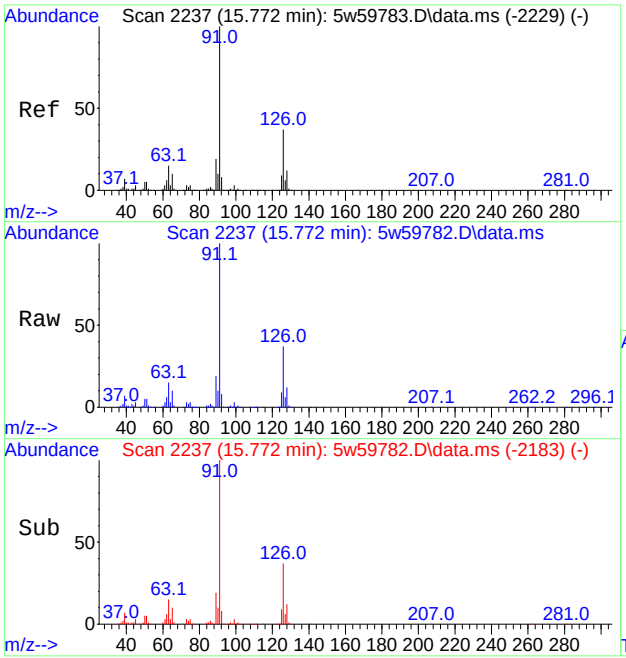


#89
BROMOBENZENE
Concen: 5.25 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 77 Resp: 663458

Ion	Ratio	Lower	Upper
77	100		
156	78.3	54.9	101.9
158	75.8	53.5	99.3

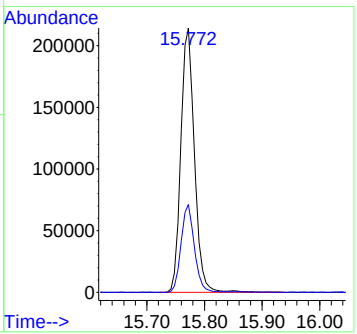


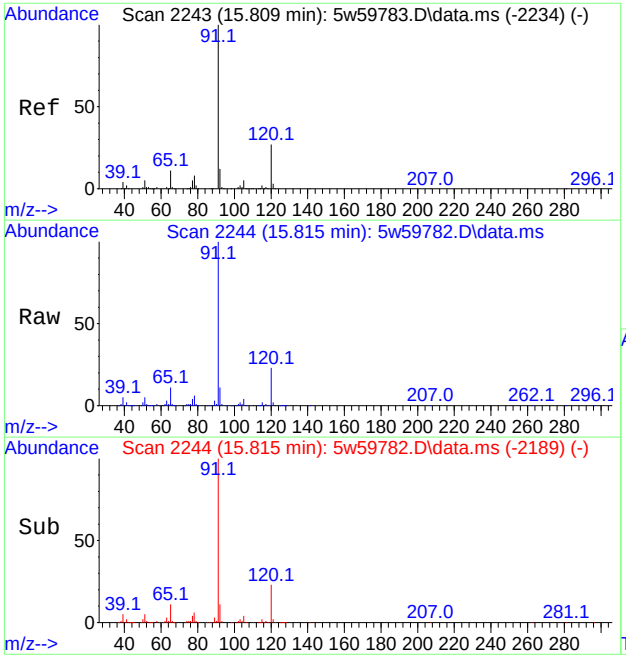


#90
2-CHLOROTOLUENE
Concen: 5.42 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:126 Resp: 351599

Ion	Ratio	Lower	Upper
126	100		
128	32.9	2.7	62.7

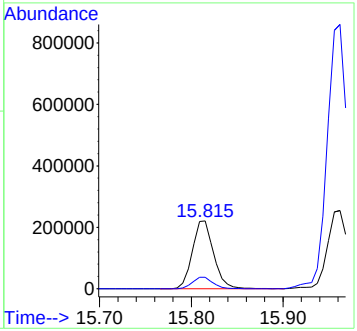


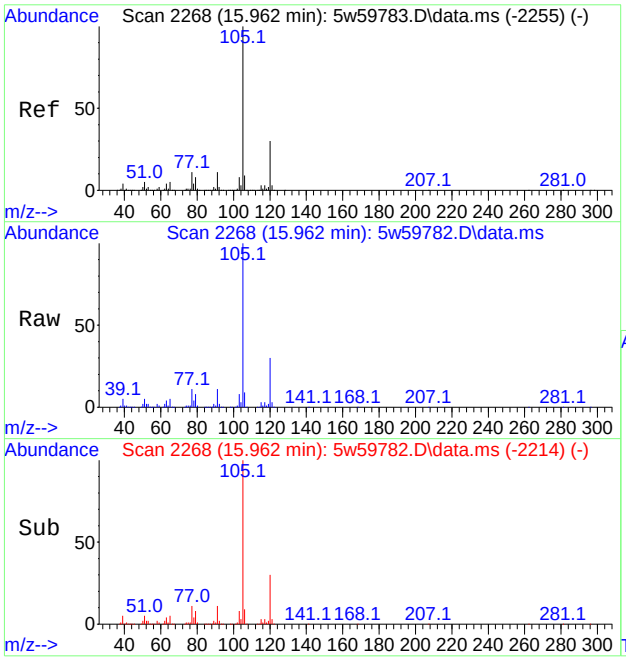


#91
n-PROPYLBENZENE
Concen: 5.54 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:120 Resp: 357322

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

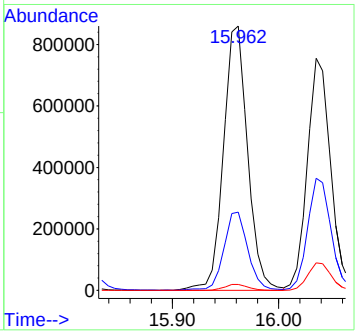


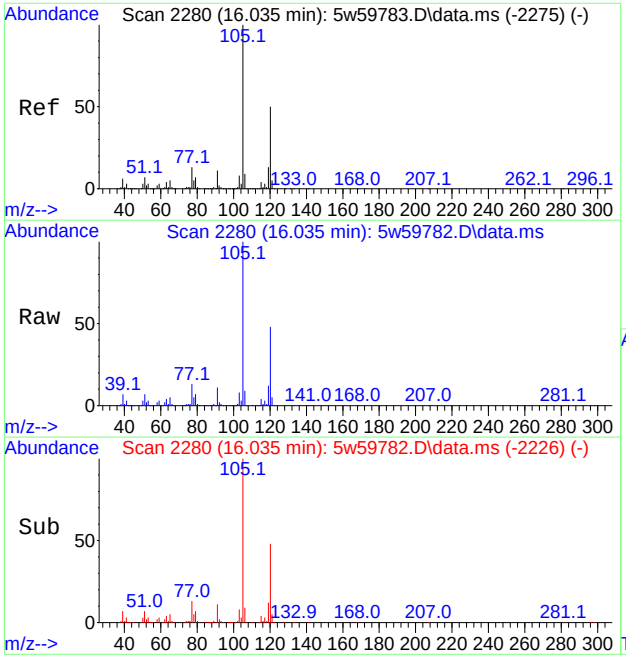


#92
4-ETHYLTOLUENE
Concen: 6.29 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1362882

Ion	Ratio	Lower	Upper
105	100		
120	29.5	0.0	59.9
119	2.3	0.0	32.3

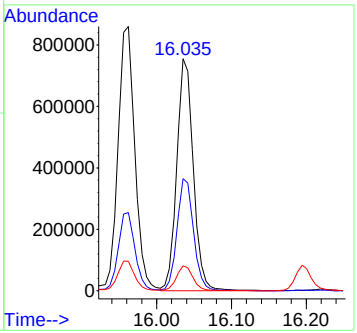


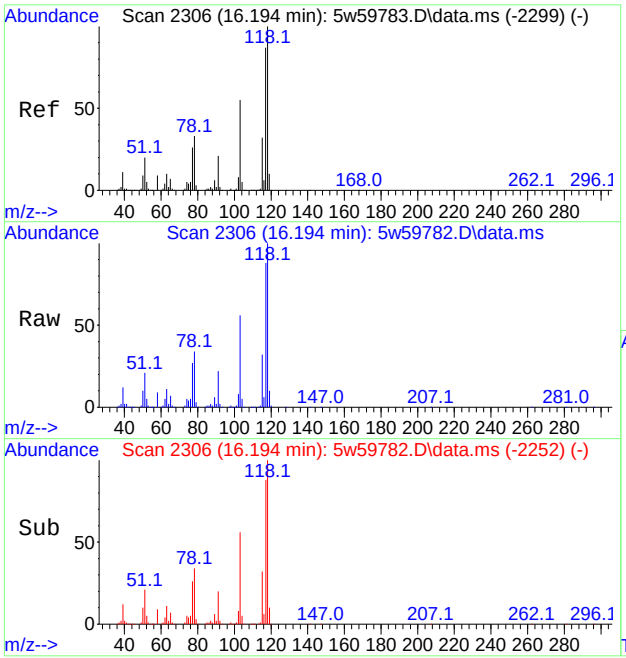


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.77 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1159491

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.4	79.4
91	10.9	0.0	40.8

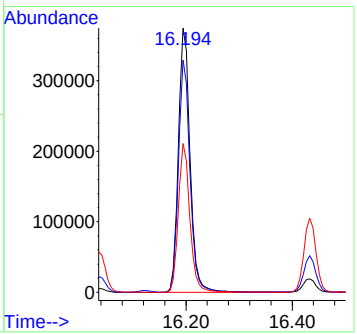


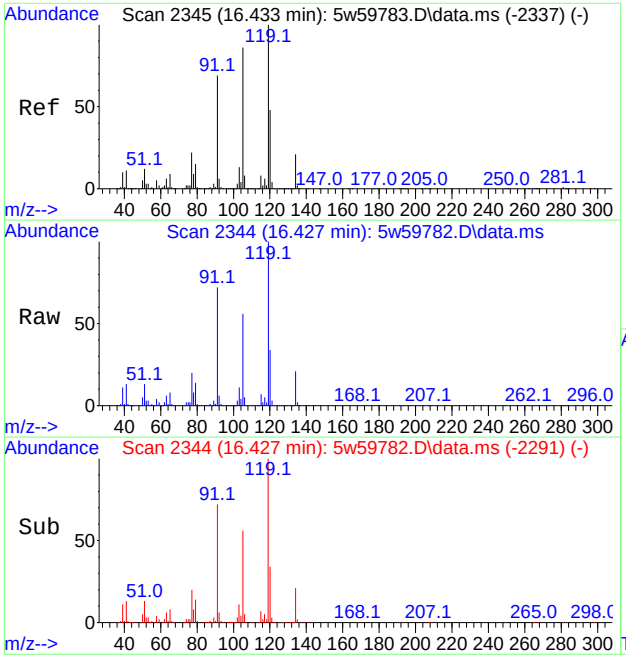


#94
ALPHA-METHYLSTYRENE
Concen: 5.89 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:118 Resp: 573224

Ion	Ratio	Lower	Upper
118	100		
117	87.5	60.9	113.1
103	55.8	38.6	71.8

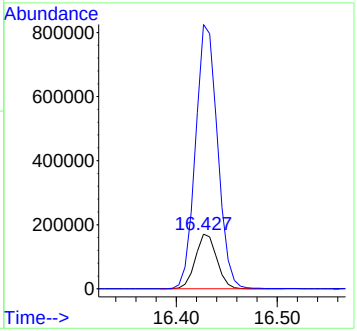


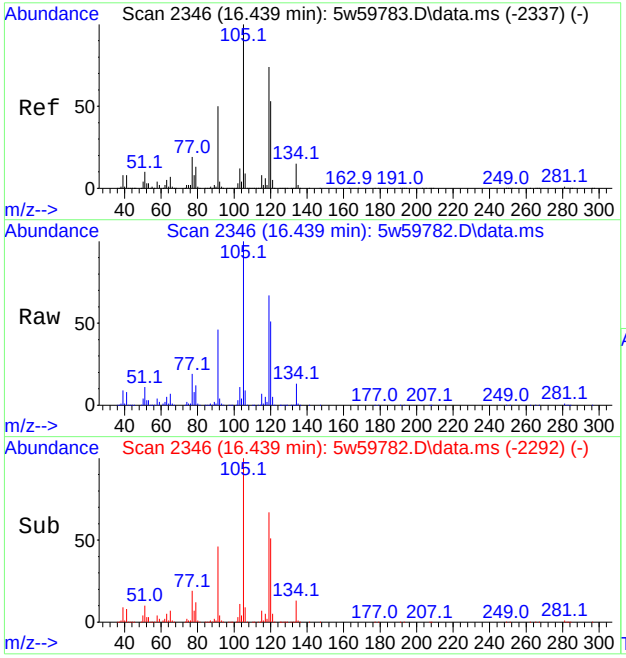


#95
tert-BUTYLBENZENE
Concen: 6.02 PPBV
RT: 16.427 min Scan# 2344
Delta R.T. -0.006 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 250823

Ion	Ratio	Lower	Upper
134	100		
119	500.9	459.3	519.3

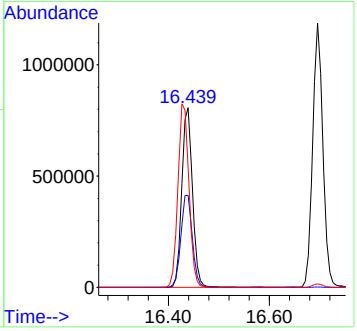


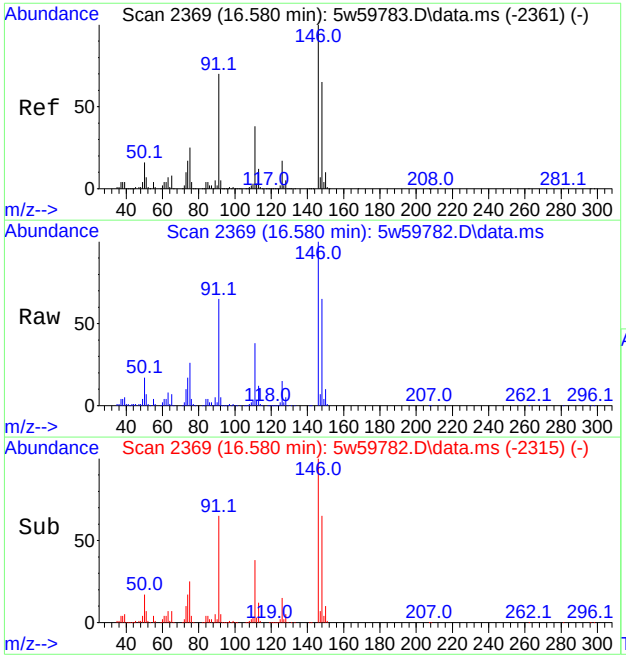


#96
1,2,4-TRIMETHYLBENZENE
Concen: 6.18 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1191915

Ion	Ratio	Lower	Upper
105	100		
120	55.1	25.7	85.7
119	105.4	75.7	135.7

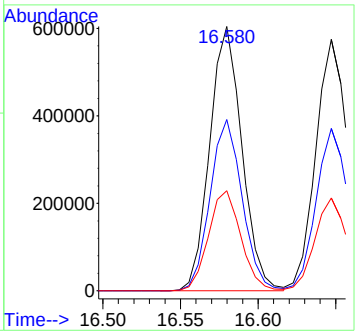


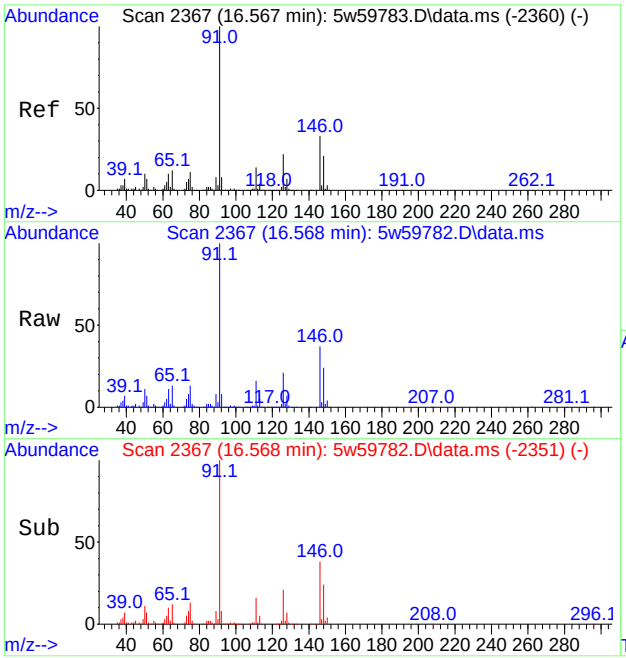


#97
m-DICHLOROBENZENE
Concen: 5.56 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 871935

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.8	94.8
111	38.2	8.2	68.2

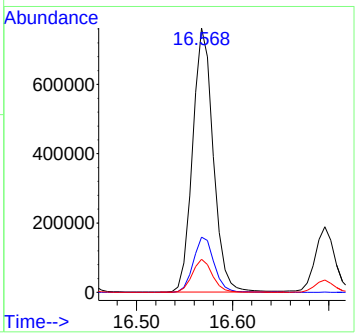


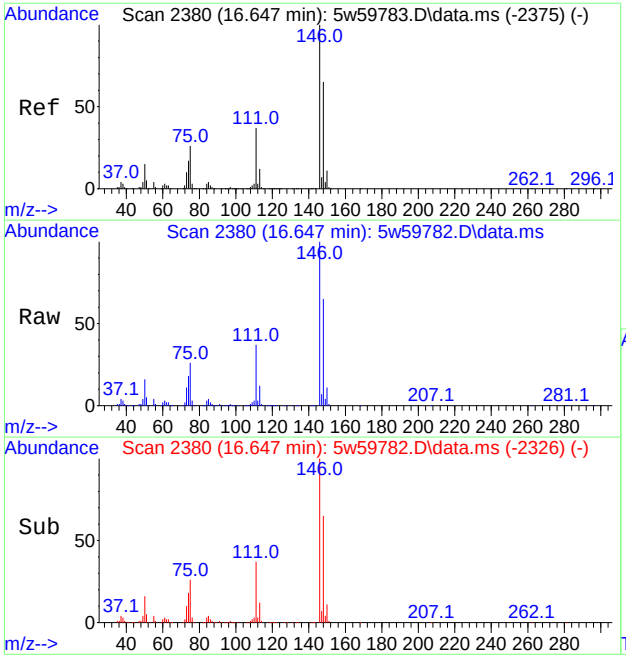


#98
BENZYL CHLORIDE
Concen: 6.44 PPBV
RT: 16.568 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion: 91 Resp: 1137176

Ion	Ratio	Lower	Upper
91	100		
126	21.2	0.0	51.7
65	12.5	0.0	42.2

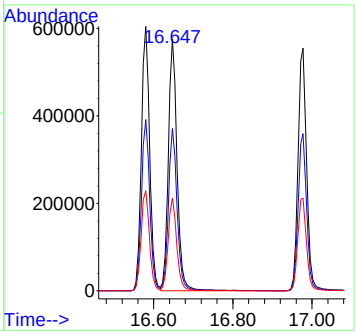


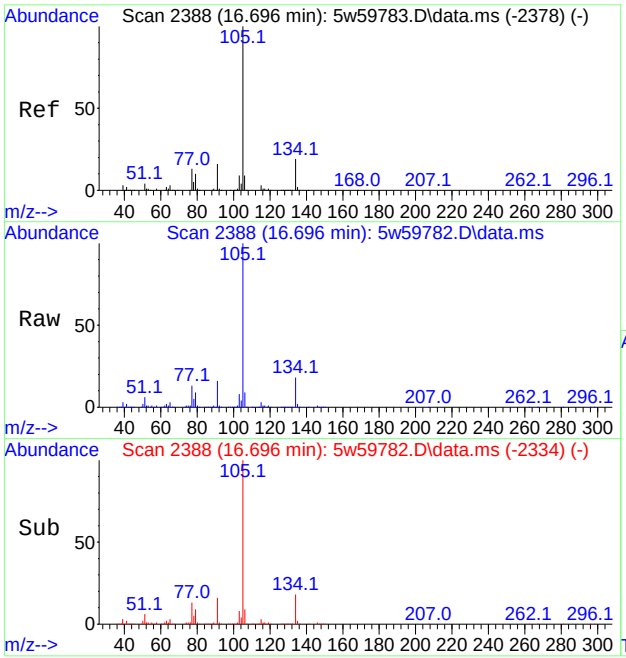


#99
p-DICHLOROBENZENE
Concen: 5.40 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 878264

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.6	94.6
111	36.4	6.7	66.7

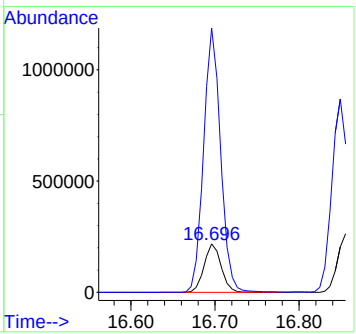


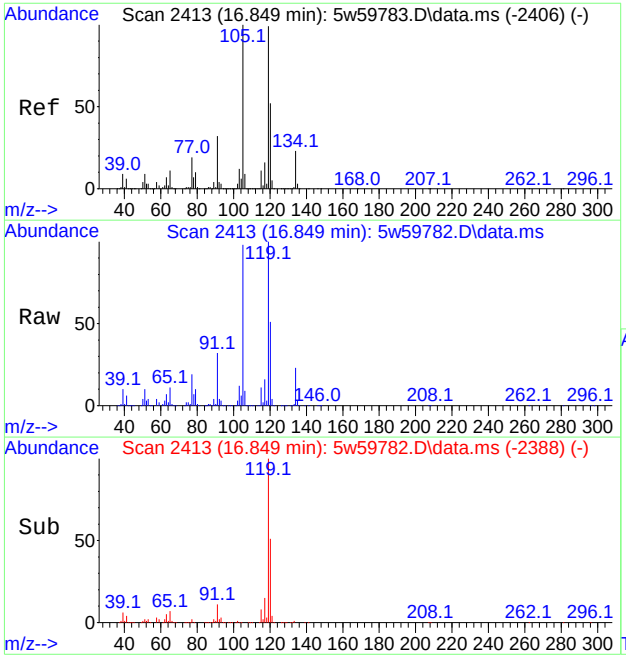


#100
sec-BUTYLBENZENE
Concen: 5.79 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 309649

Ion	Ratio	Lower	Upper
134	100		
105	540.4	502.5	562.5

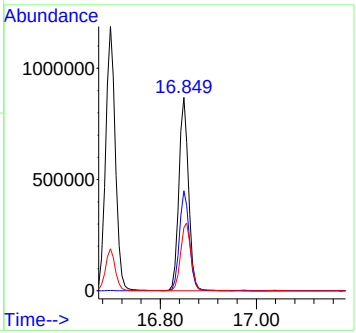


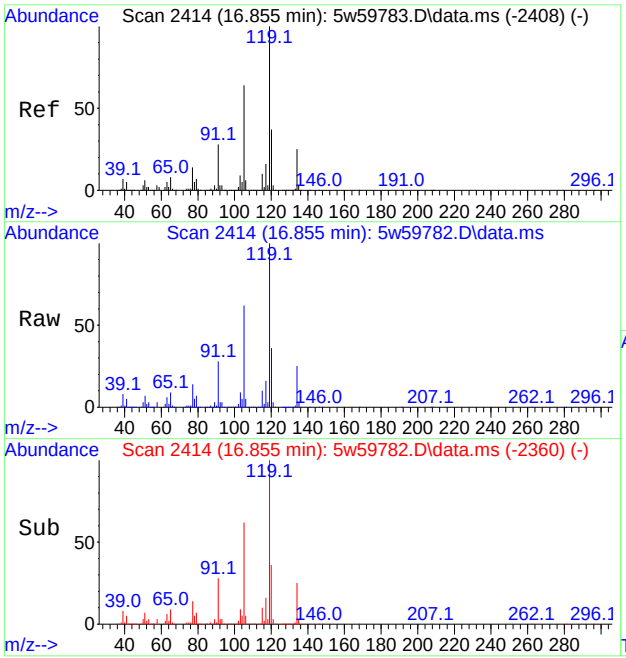


#101
1,2,3-TRIMETHYLBENZENE
Concen: 5.87 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:105 Resp: 1209627

Ion	Ratio	Lower	Upper
105	100		
120	53.0	23.5	83.5
91	37.7	7.4	67.4

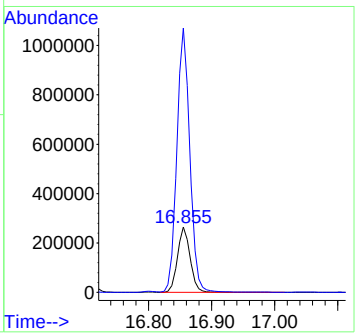


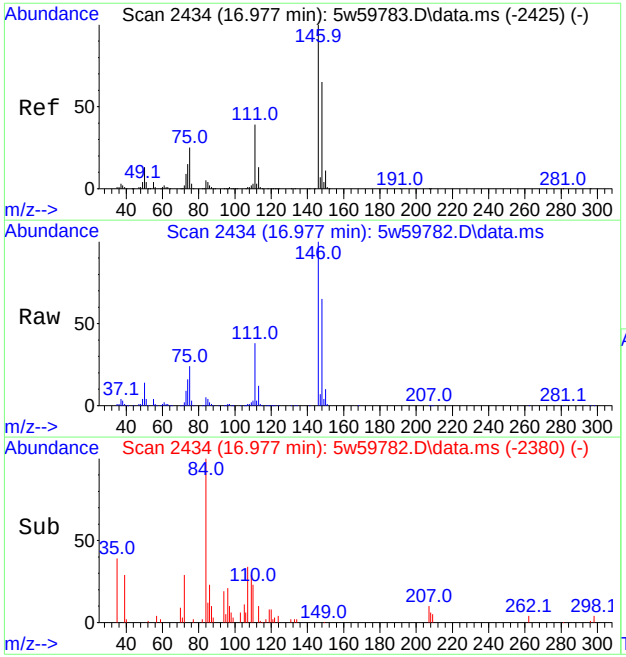


#102
p-ISOPROPYLTOLUENE
Concen: 6.01 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 367882

Ion	Ratio	Lower	Upper
134	100		
119	416.3	377.7	437.7

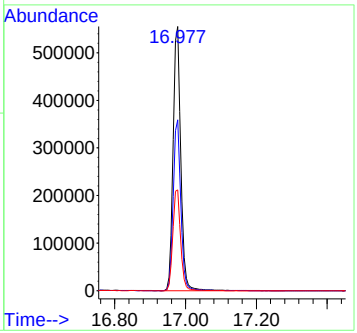


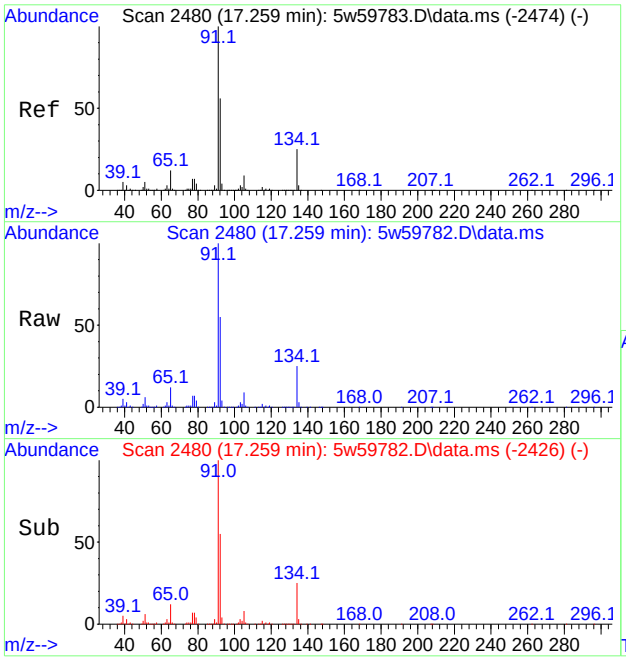


#103
o-DICHLOROBENZENE
Concen: 5.25 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:146 Resp: 831952

Ion	Ratio	Lower	Upper
146	100		
148	64.2	34.3	94.3
111	39.5	9.2	69.2

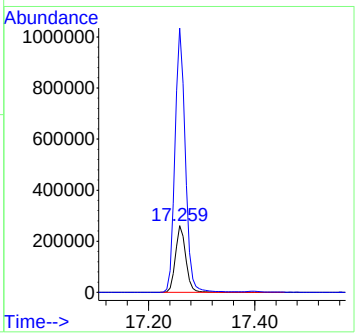


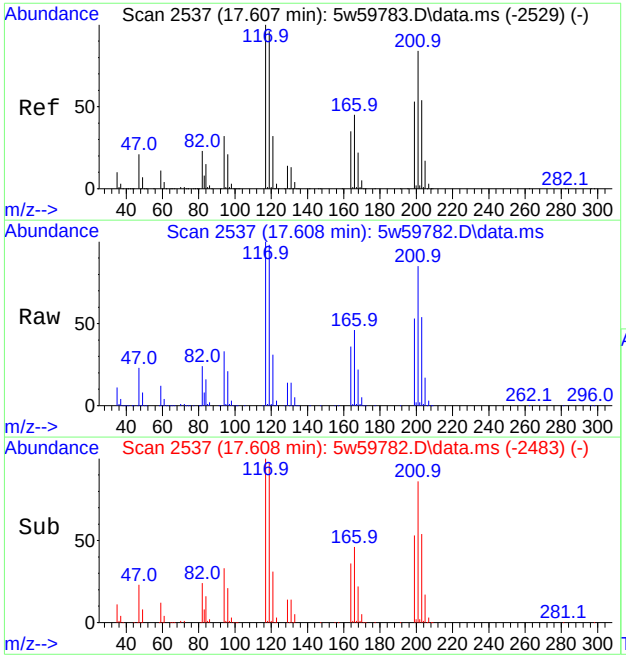


#104
n-BUTYLBENZENE
Concen: 6.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:134 Resp: 353476

Ion	Ratio	Lower	Upper
134	100		
91	394.8	363.1	423.1

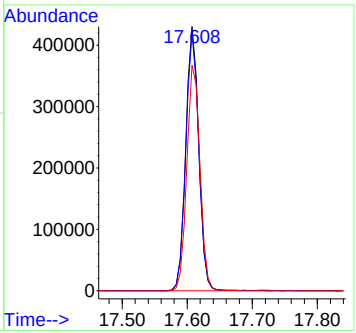


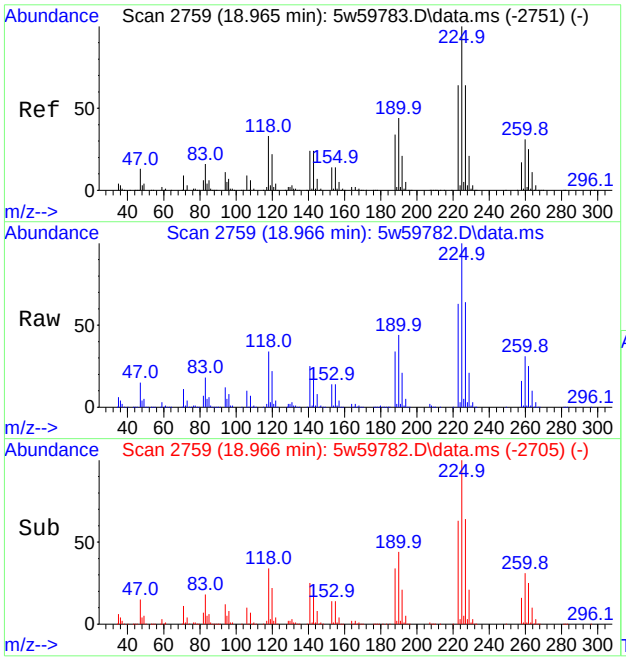


#105
HEXACHLOROETHANE
Concen: 5.71 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:117 Resp: 597723

Ion	Ratio	Lower	Upper
117	100		
119	96.4	67.2	124.8
201	86.1	61.1	113.5

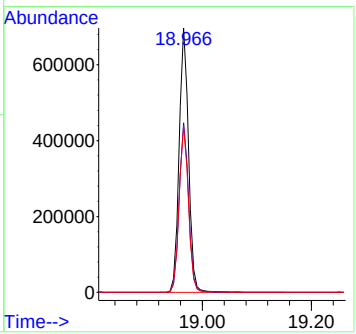


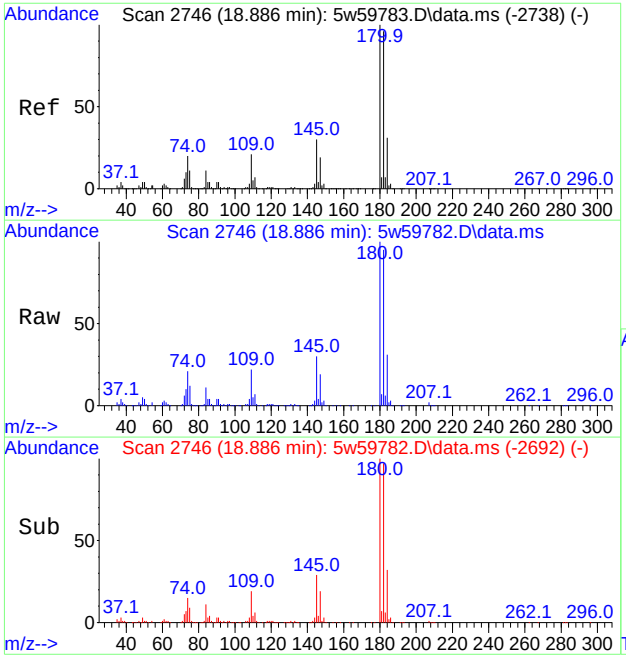


#106
HEXACHLOROBUTADIENE
Concen: 5.13 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:225 Resp: 827665

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	62.9	33.3	93.3

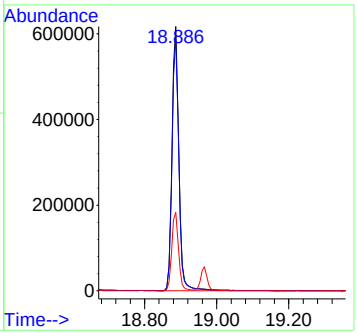


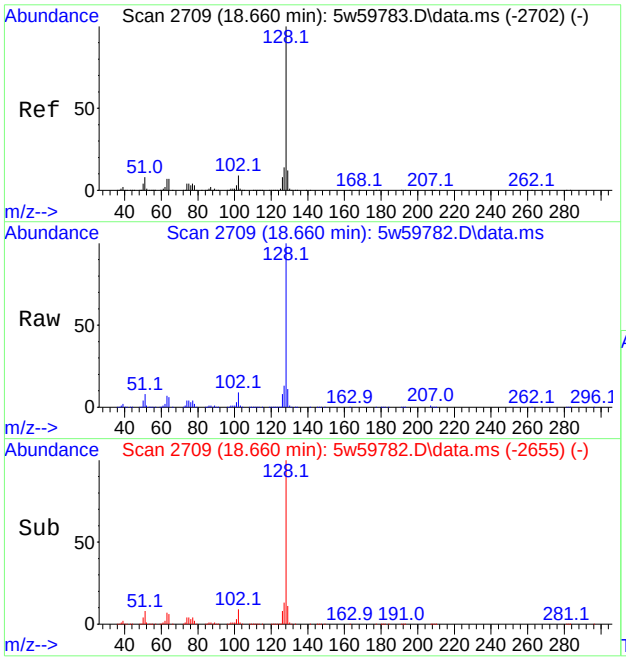


#107
1,2,4-TRICHLOROBENZENE
Concen: 7.16 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:180 Resp: 807736

Ion	Ratio	Lower	Upper
180	100		
182	95.5	65.4	125.4
145	29.5	0.0	59.4

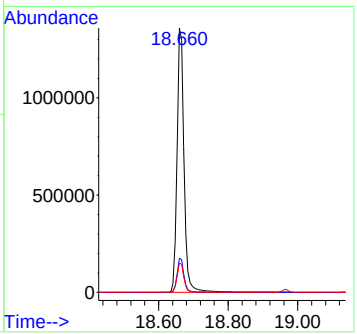


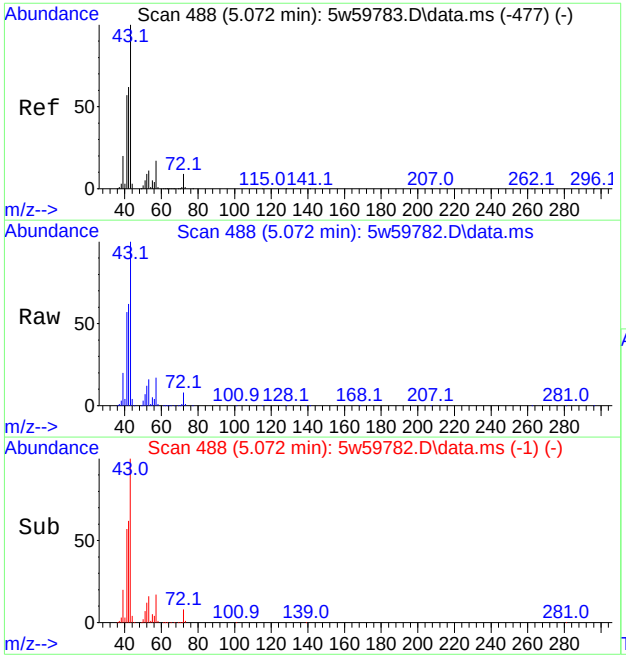


#108
NAPHTHALENE
Concen: 7.30 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:128 Resp: 1912544

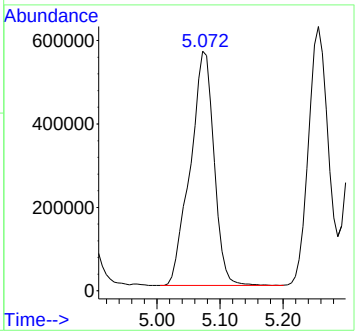
Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	43.3
129	11.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 4.29 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59782.D
Acq: 7 Nov 2025 6:57 am

Tgt Ion:TIC Resp: 1469674



7.7.5

7

Manual Integration Approval Summary

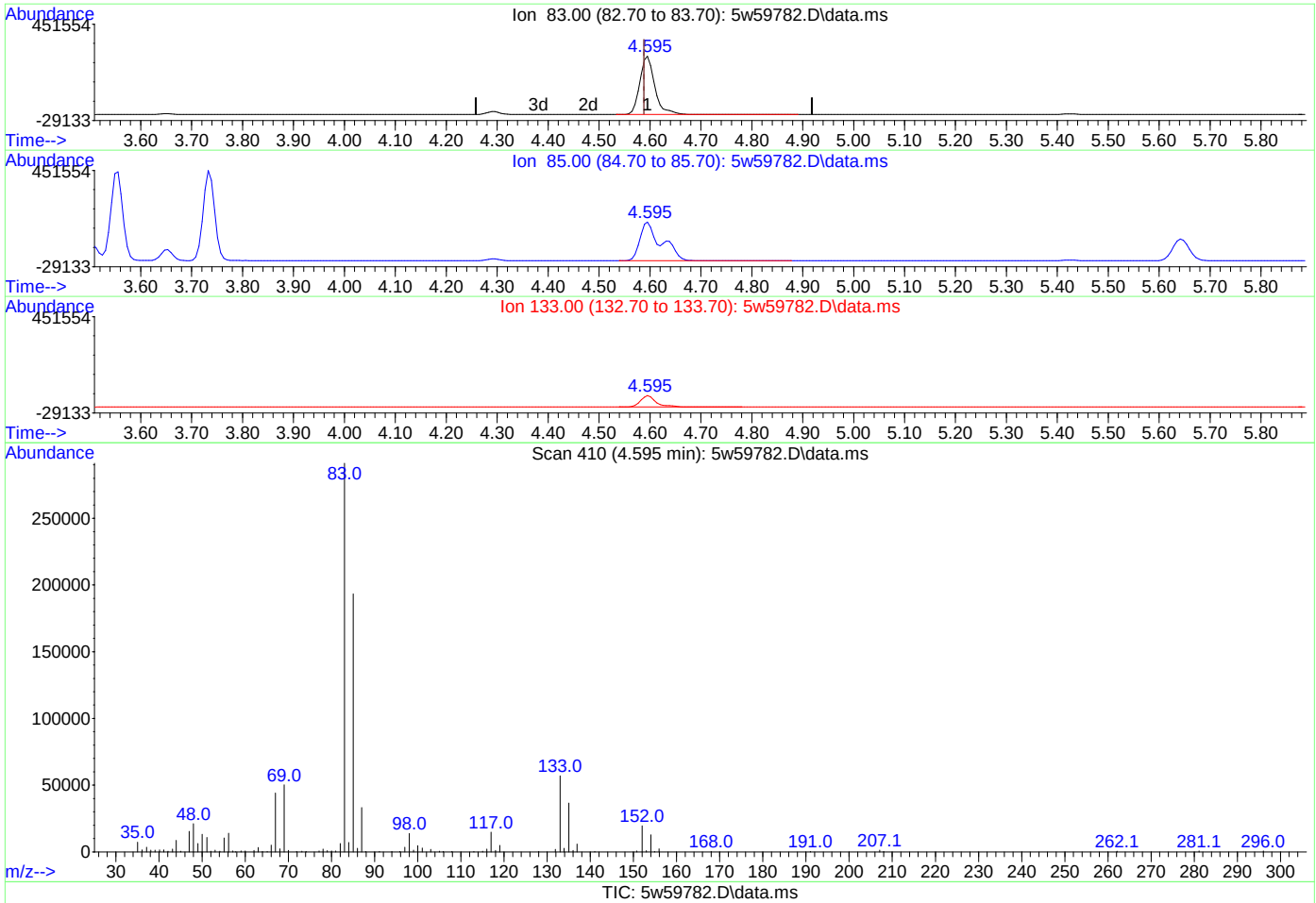
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59782.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 06:57 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.43	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV

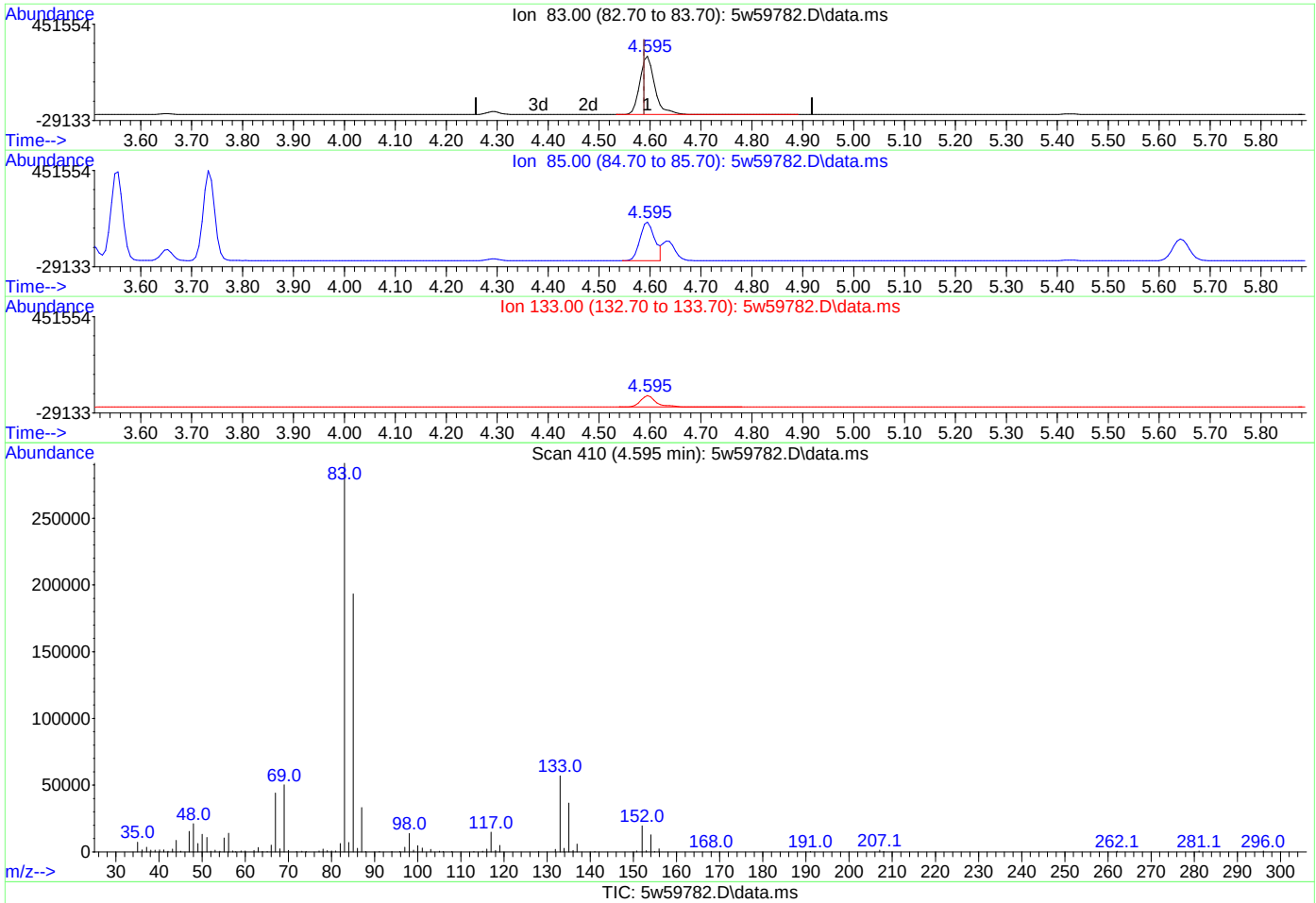
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.31#
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(19) FREON 123

4.595min (+0.006) 5.20PPBV m

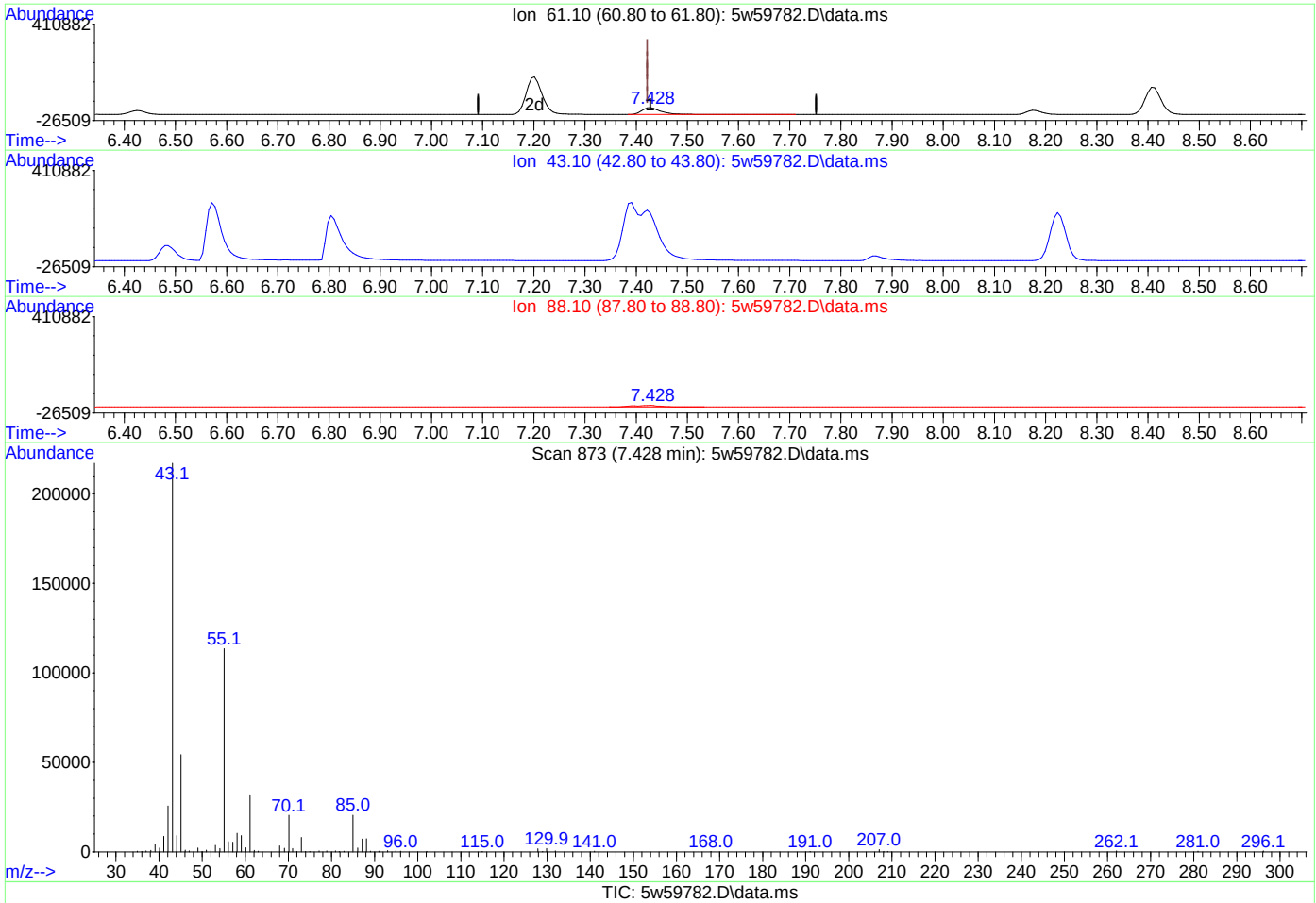
response 601219

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.72
133.00	20.70	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV

response 87258

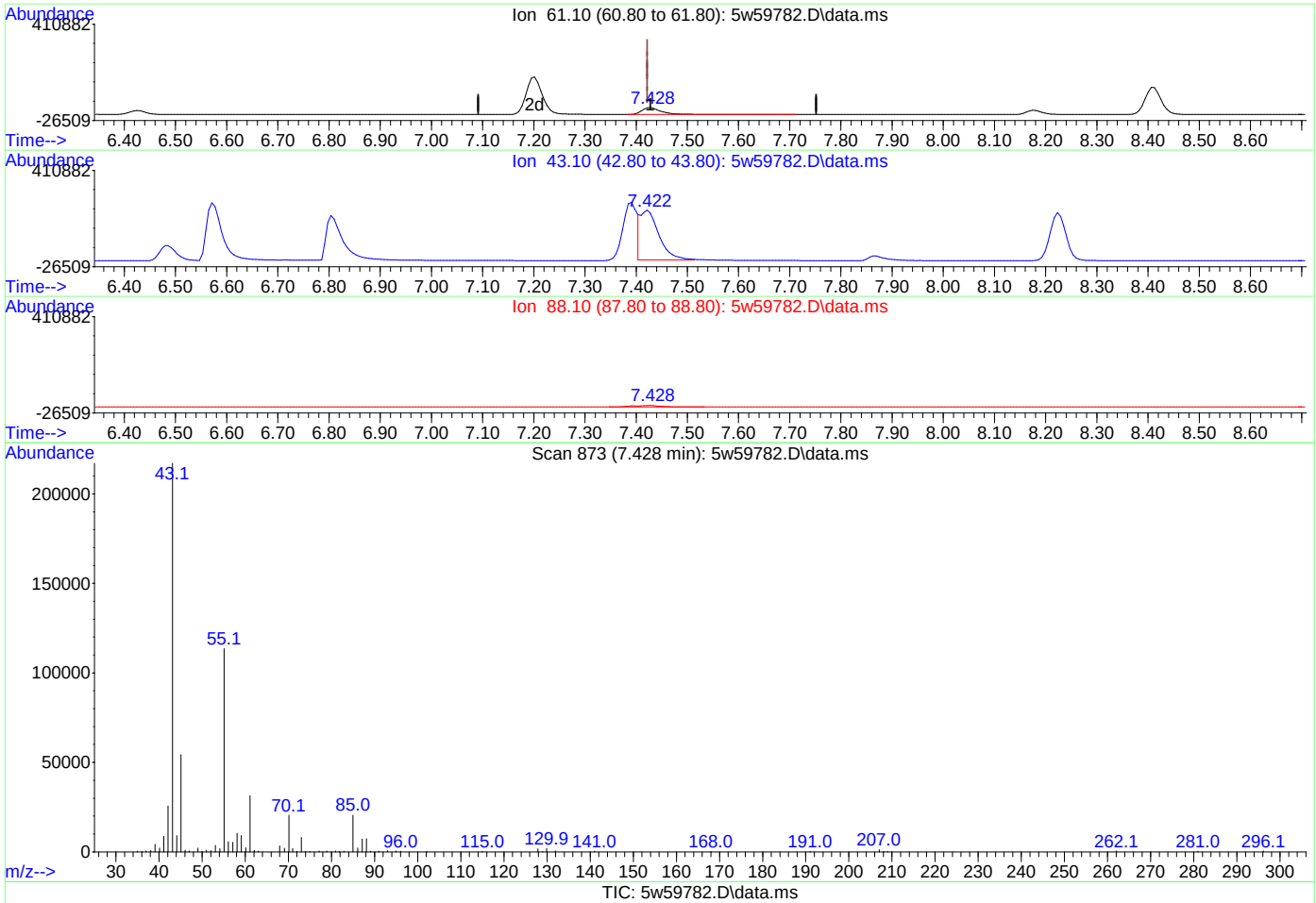
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	32.87
0.00	0.00	0.00

5W59782.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(44) ETHYL ACETATE

7.428min (+0.006) 5.60PPBV m

response 87258

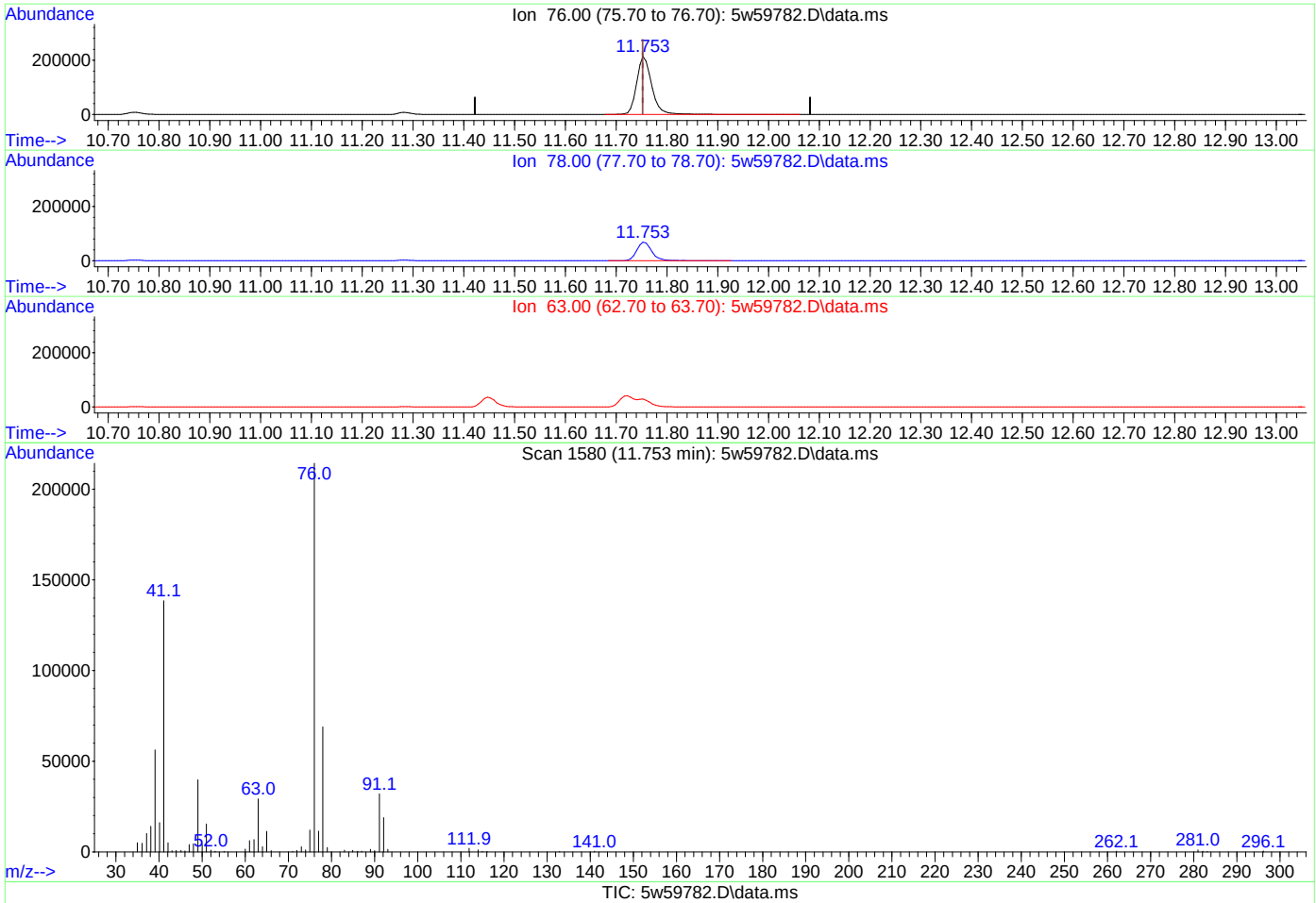
Ion	Exp%	Act%
61.10	100	100
43.10	590.50	636.36#
88.10	34.50	32.87
0.00	0.00	0.00

5W59782.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration



TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV

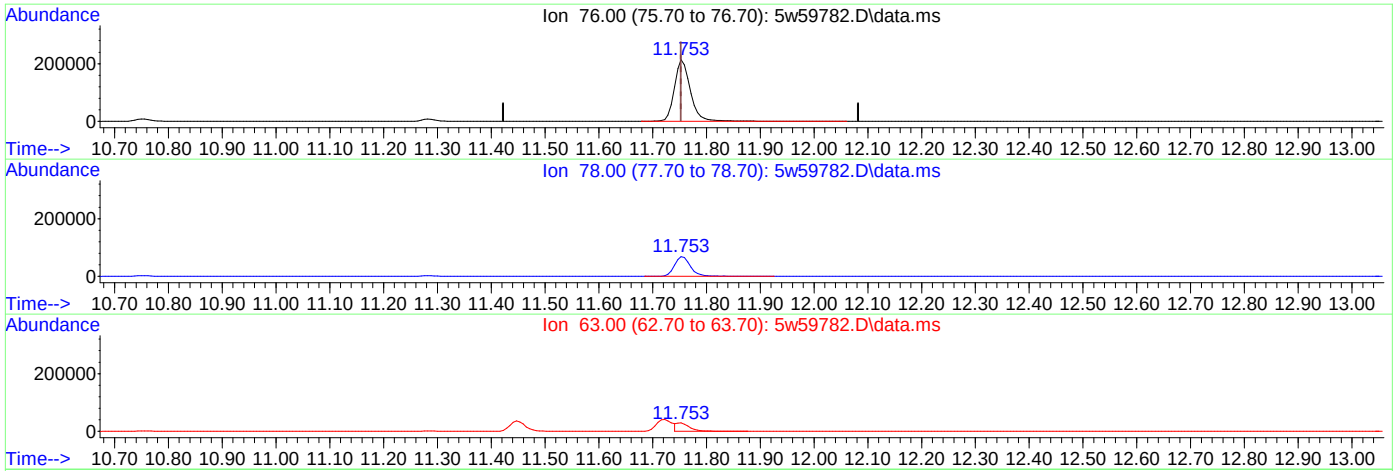
response 446082

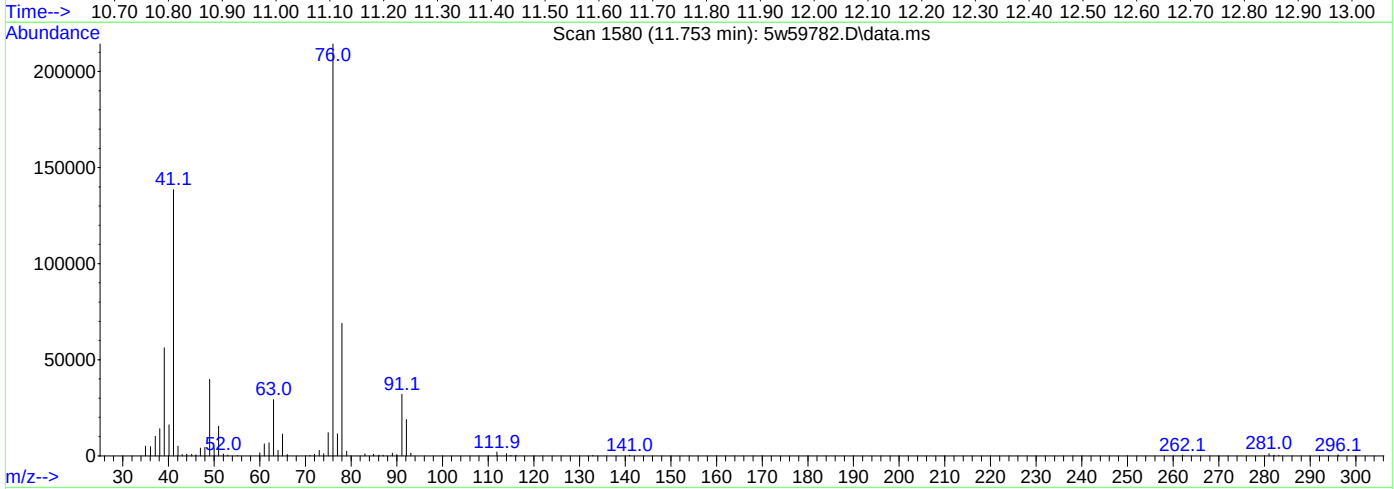
Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59782.D
Acq On : 7 Nov 2025 6:57 am
Operator : benk
Sample : ic2292-5
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:48:25 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:47:43 2025
Response via : Initial Calibration





TIC: 5w59782.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 5.43PPBV m

response 446082

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.63
63.00	10.10	11.22
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	458592	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2019630	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1088548	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	459307	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1400456	10.41	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.10%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	318291	5.37	PPBV	100
3) FREON 152A	3.445	65	311212	8.83	PPBV	100
4) CHLORODIFLUOROMETHANE	3.475	67	154727	9.59	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.506	116	762524	10.03	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.549	85	1445515	9.55	PPBV	100
7) PROPYLENE	3.500	41	343468	8.81	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1103467	8.04	PPBV	100
9) FREON 114	3.732	85	1375524	10.56	PPBV	100
10) CHLOROMETHANE	3.665	52	141881	8.80	PPBV	100
11) VINYL CHLORIDE	3.818	62	472875	9.34	PPBV	100
12) 1,3-BUTADIENE	3.910	54	284232	8.35	PPBV	100
13) n-BUTANE	3.946	43	454503	7.37	PPBV	100
14) BROMOMETHANE	4.106	94	500092	10.05	PPBV	100
15) CHLOROETHANE	4.222	64	205309	8.90	PPBV	100
16) DICHLOROFLUOROMETHANE	4.289	67	1019855	8.67	PPBV	100
17) ACETONITRILE	4.479	41	252958	7.21	PPBV	100
18) ACROLEIN	4.571	56	155868	8.51	PPBV	100
19) FREON 123	4.589	83	1157483m	9.93	PPBV	
20) FREON 123A	4.632	117	701588	9.69	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1209415	7.29	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	906732	7.67	PPBV	100
23) ACETONE	4.675	58	180987	8.59	PPBV	100
24) PENTANE	5.072	42	444915	7.13	PPBV	100
25) IODOMETHANE	5.256	142	1538968	10.06	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	488317	8.97	PPBV	100
27) CARBON DISULFIDE	5.672	76	1343447	9.35	PPBV	100
28) ETHANOL	4.320	45	168471	7.22	PPBV	100
29) BROMOETHENE	4.479	106	508476	10.65	PPBV	100
30) ACRYLONITRILE	5.042	52	310247	8.54	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	424759	8.70	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	218615	9.74	PPBV	100
33) FREON 113	5.641	151	865046	9.06	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.241	96	496473	8.93	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.378	59	968852	8.31	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.479	73	1323434	9.62	PPBV	100
37) TETRAHYDROFURAN	7.856	72	199227	10.87	PPBV	100
38) HEXANE	7.385	57	758015	9.88	PPBV	100
39) VINYL ACETATE	6.565	86	82624	9.01	PPBV	100
40) 1,1-DICHLOROETHANE	6.424	63	931030	9.18	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	216147	11.31	PPBV	100
42) cis-1,2-DICHLOROETHYLENE	7.195	96	529578	9.24	PPBV	100
43) DIISOPROPYL ETHER	7.391	59	234936	11.29	PPBV	100
44) ETHYL ACETATE	7.421	61	169787m	10.80	PPBV	
45) METHYL ACRYLATE	7.409	55	948651	10.40	PPBV	100
46) CHLOROFORM	7.476	83	1113306	9.51	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	877406	9.73	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.406	97	1165134	9.11	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1296040	9.17	PPBV	100
50)	1,2-DICHLOROETHANE	8.174	62	793795	9.55	PPBV	100
52)	BENZENE	8.853	78	1461752	10.93	PPBV	100
53)	CYCLOHEXANE	9.110	84	573806	10.80	PPBV	100
54)	2,3-DIMETHYLPENTANE	9.348	71	294377	10.99	PPBV	100
55)	TRICHLOROETHYLENE	9.887	95	733457	10.30	PPBV	100
56)	1,2-DICHLOROPROPANE	9.654	63	587338	10.35	PPBV	100
57)	DIBROMOMETHANE	9.630	174	777595	9.96	PPBV	100
58)	ETHYL ACRYLATE	9.679	55	1150308	11.15	PPBV	100
59)	BROMODICHLOROMETHANE	9.850	83	1291376	10.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2382864	10.46	PPBV	100
61)	1,4-DIOXANE	9.899	88	335180	12.16	PPBV	100
62)	HEPTANE	10.187	43	809108	9.62	PPBV	100
63)	METHYL METHACRYLATE	10.107	69	505563	12.20	PPBV	100
64)	METHYL ISOBUTYL KETONE	10.792	58	480676	11.29	PPBV	100
65)	cis-1,3-DICHLOROPROPENE	10.749	75	988291	11.23	PPBV	87
66)	TOLUENE	11.722	92	1078428	11.29	PPBV	100
67)	1,3-DICHLOROPROPANE	11.753	76	866163m	10.80	PPBV	
68)	trans-1,3-DICHLOROPROPENE	11.282	75	890794	11.02	PPBV	100
69)	1,1,2-TRICHLOROETHANE	11.447	83	593800	11.35	PPBV	100
71)	2-HEXANONE	12.010	58	708433	12.76	PPBV	100
72)	ETHYL METHACRYLATE	12.022	69	915611	13.03	PPBV	100
73)	TETRACHLOROETHYLENE	12.872	164	851797	10.39	PPBV	100
74)	DIBROMOCHLOROMETHANE	12.150	129	1470928	10.66	PPBV	100
75)	1,2-DIBROMOETHANE	12.395	107	1182589	11.73	PPBV	100
76)	OCTANE	12.744	43	1128893	9.72	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	951903	10.52	PPBV	100
78)	CHLOROBENZENE	13.582	112	1532486	10.30	PPBV	100
79)	ETHYLBENZENE	13.986	91	2426187	11.38	PPBV	100
80)	m,p-XYLENE	14.181	106	1894377	23.39	PPBV	100
81)	o-XYLENE	14.683	106	921132	12.40	PPBV	100
82)	STYRENE	14.567	104	1485661	13.06	PPBV	100
83)	NONANE	14.934	43	1167938	10.14	PPBV	100
84)	BROMOFORM	14.249	173	1553327	10.92	PPBV	100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1606320	12.27	PPBV	100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1108756	9.96	PPBV	100
88)	ISOPROPYLBENZENE	15.295	105	2737713	11.04	PPBV	100
89)	BROMOBENZENE	15.374	77	1323542	10.19	PPBV	100
90)	2-CHLOROTOLUENE	15.772	126	723050	10.93	PPBV	100
91)	n-PROPYLBENZENE	15.809	120	754817	11.44	PPBV	100
92)	4-ETHYLTOLUENE	15.962	105	2719805	12.20	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2300675	11.13	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.194	118	1195904	12.09	PPBV	100
95)	tert-BUTYLBENZENE	16.433	134	523380	12.22	PPBV	100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2423323	12.17	PPBV	100
97)	m-DICHLOROBENZENE	16.580	146	1782947	11.15	PPBV	100
98)	BENZYL CHLORIDE	16.567	91	2316167	12.73	PPBV	100
99)	p-DICHLOROBENZENE	16.647	146	1775311	10.72	PPBV	100
100)	sec-BUTYLBENZENE	16.696	134	618616	11.27	PPBV	100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2427524	11.39	PPBV	100
102)	p-ISOPROPYLTOLUENE	16.855	134	746734	11.87	PPBV	100
103)	o-DICHLOROBENZENE	16.977	146	1665215	10.31	PPBV	100
104)	n-BUTYLBENZENE	17.259	134	703045	12.21	PPBV	100
105)	HEXACHLOROETHANE	17.607	117	1210974	11.22	PPBV	100
106)	HEXACHLOROBUTADIENE	18.965	225	1667734	9.84	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1638870	14.54	PPBV	100
108)	NAPHTHALENE	18.660	128	3829842	14.35	PPBV	100
110)	TVHC as equiv Pentane	5.072	TIC	2959189	8.08	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

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

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

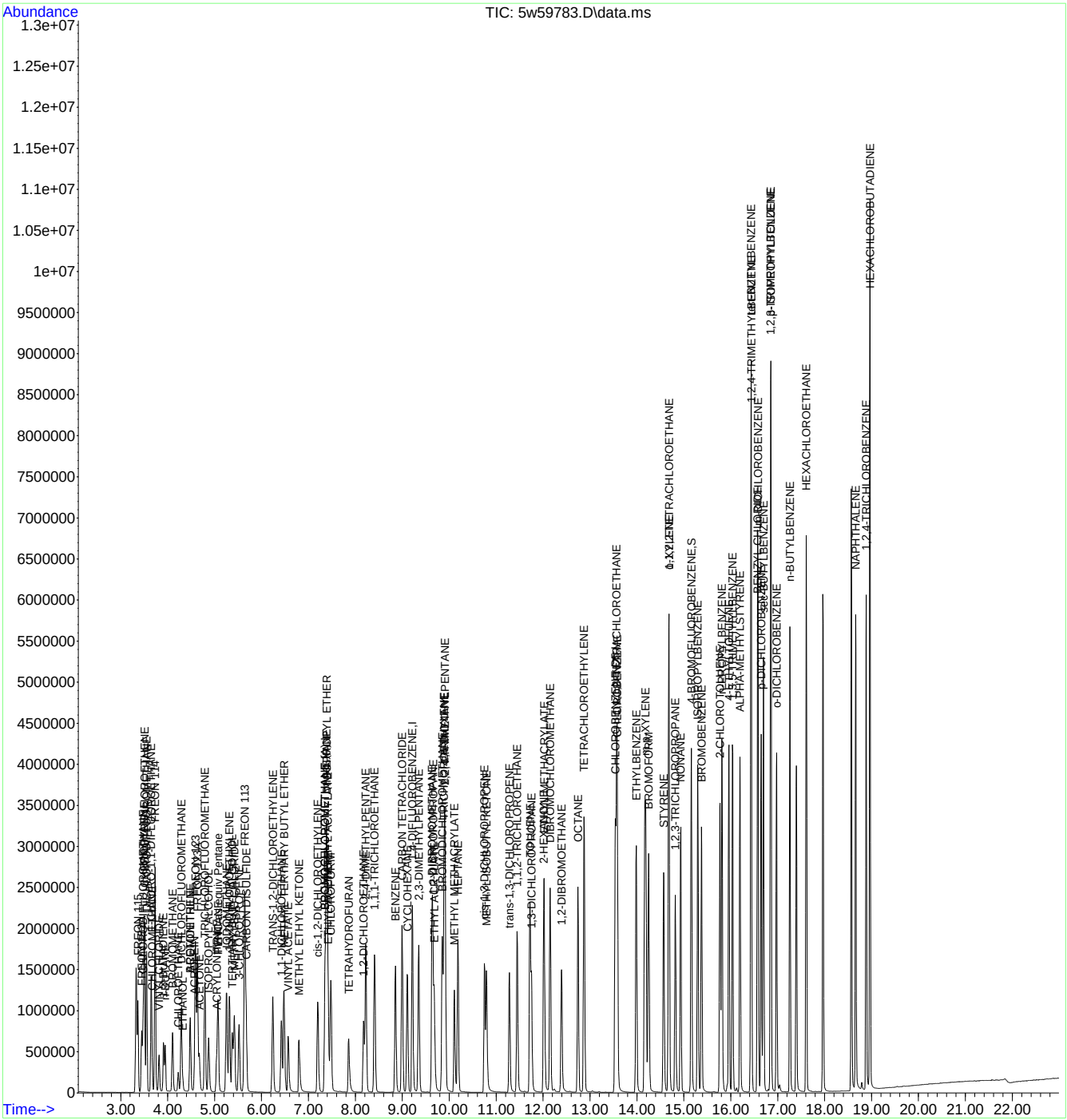
7.7.6

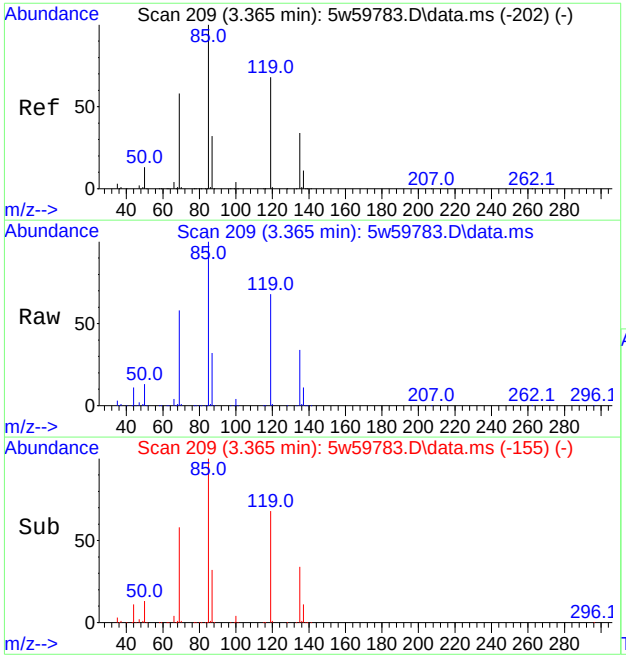
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:33:12 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration

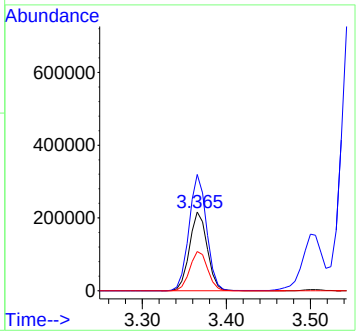


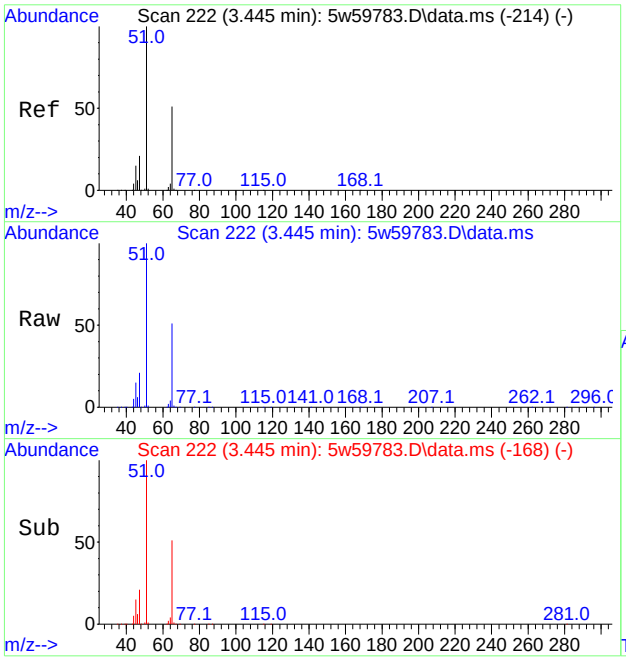


#2
FREON 115
Concen: 5.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:119 Resp: 318291

Ion	Ratio	Lower	Upper
119	100		
85	146.2	116.2	176.2
135	50.6	20.6	80.6

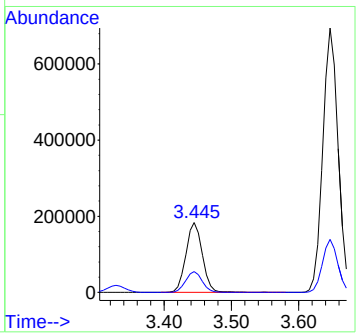


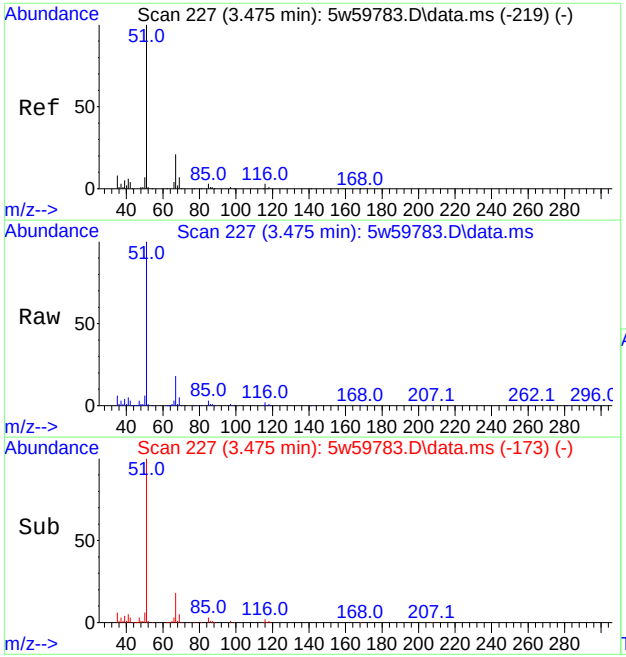


#3
FREON 152A
Concen: 8.83 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 311212

Ion	Ratio	Lower	Upper
65	100		
45	30.0	0.0	60.0

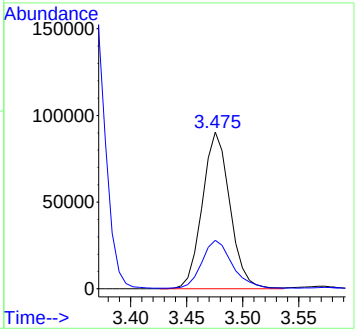


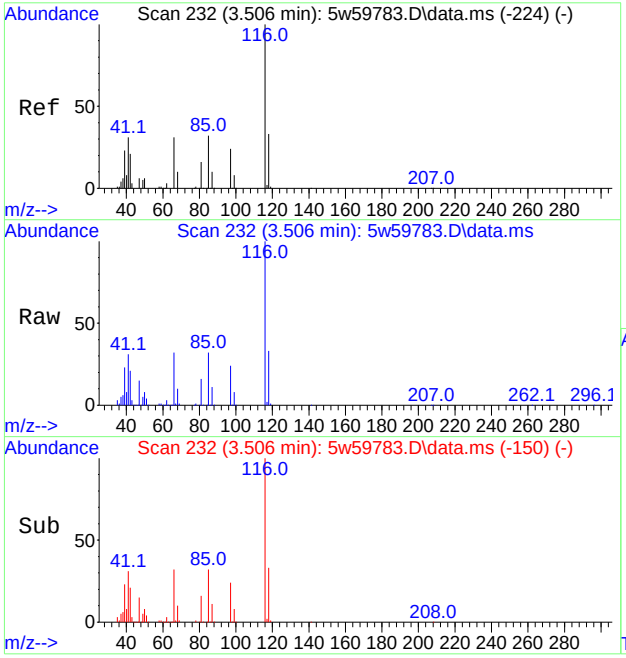


#4
CHLORODIFLUOROMETHANE
Concen: 9.59 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 154727

Ion	Ratio	Lower	Upper
67	100		
69	31.0	1.0	61.0

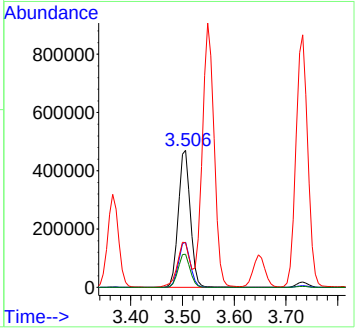


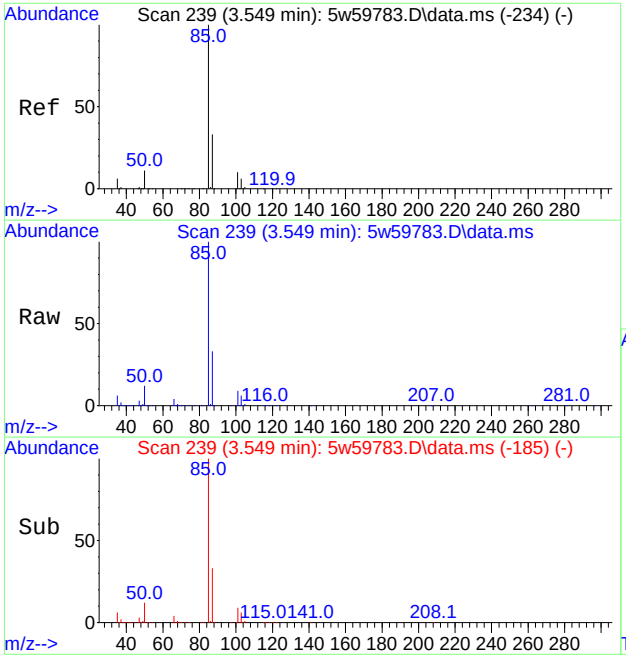


#5
CHLOROTRIFLUOROETHENE
Concen: 10.03 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:116 Resp: 762524

Ion	Ratio	Lower	Upper
116	100		
118	32.7	22.9	42.5
85	33.9	23.7	44.1
97	24.3	17.0	31.6

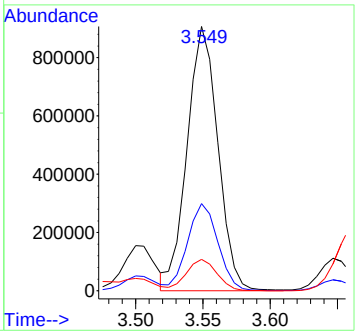


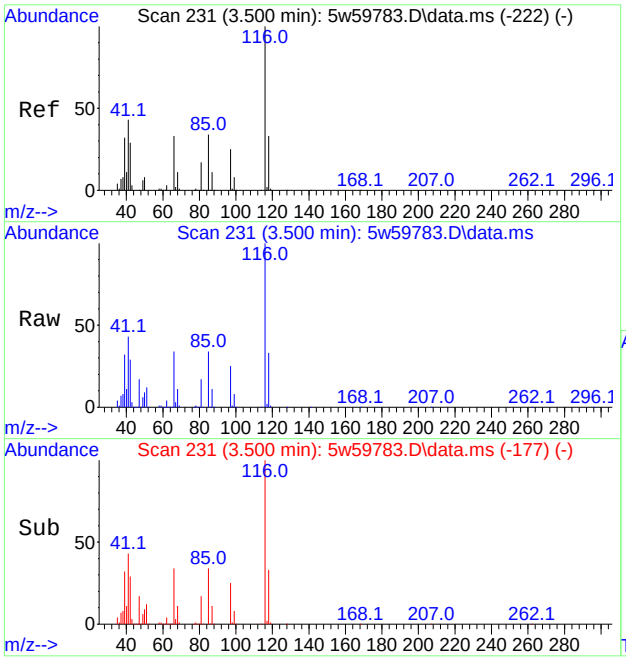


#6
DICHLORODIFLUOROMETHANE
Concen: 9.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1445515

Ion	Ratio	Lower	Upper
85	100		
87	32.5	2.5	62.5
50	11.7	0.0	41.7

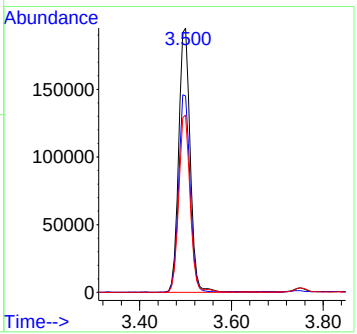


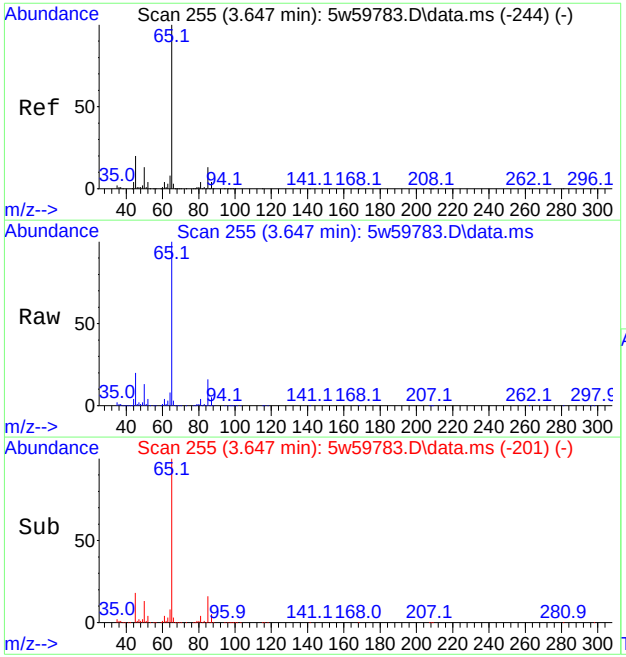


#7
PROPYLENE
Concen: 8.81 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 343468

Ion	Ratio	Lower	Upper
41	100		
39	75.1	45.1	105.1
42	66.3	36.3	96.3

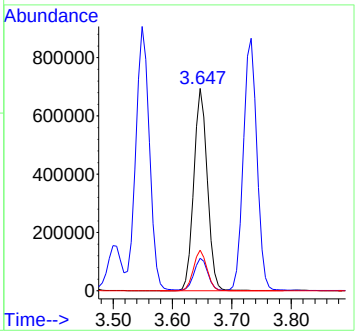


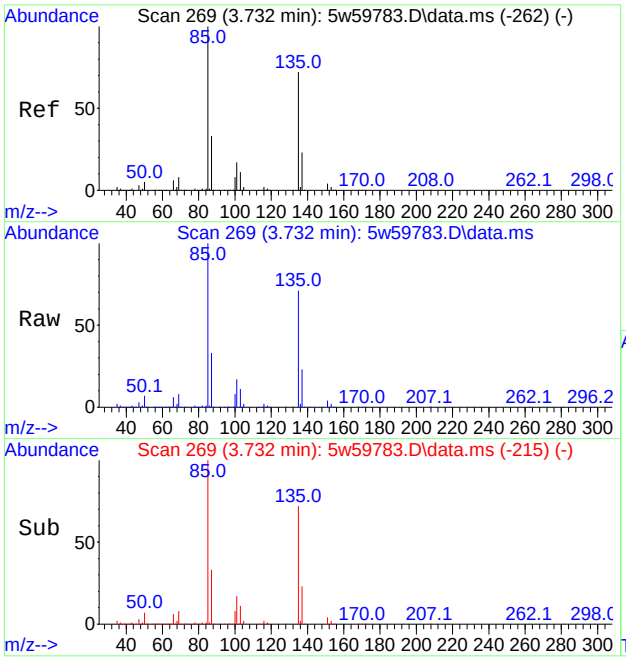


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 8.04 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 65 Resp: 1103467

Ion	Ratio	Lower	Upper
65	100		
85	16.4	11.3	21.1
45	20.0	14.0	26.0

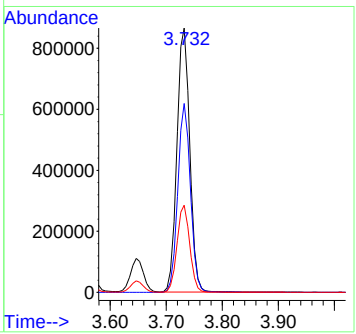


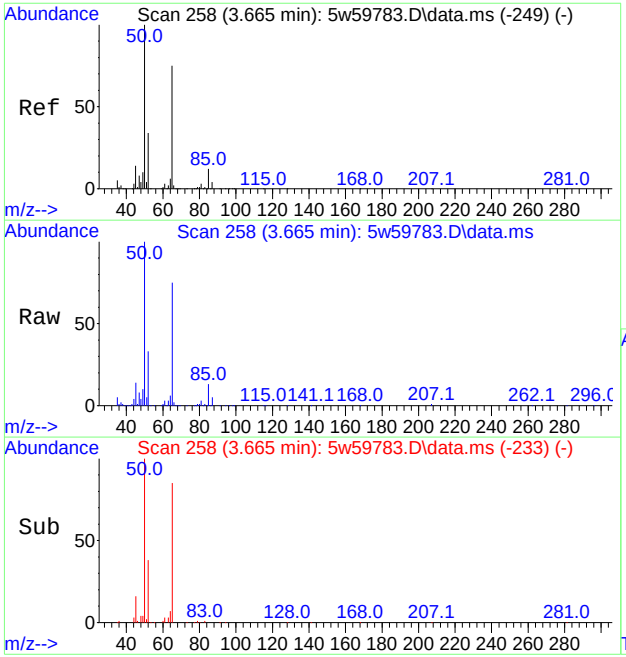


#9
FREON 114
Concen: 10.56 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 85 Resp: 1375524

Ion	Ratio	Lower	Upper
85	100		
135	70.5	40.5	100.5
87	33.0	3.0	63.0

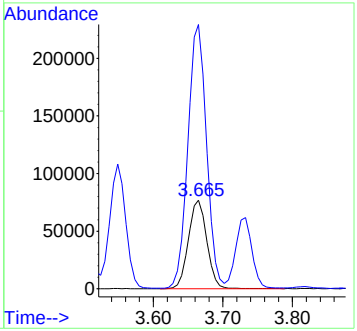


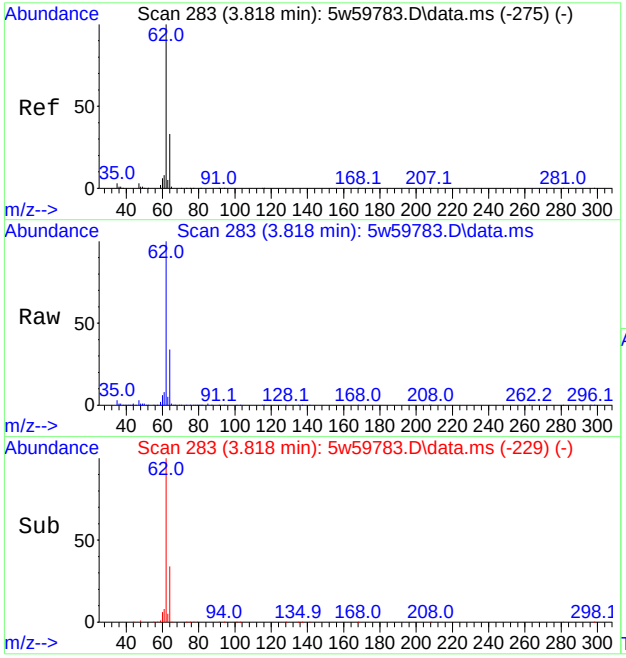


#10
CHLOROMETHANE
Concen: 8.80 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 141881

Ion	Ratio	Lower	Upper
52	100		
50	297.9	267.9	327.9

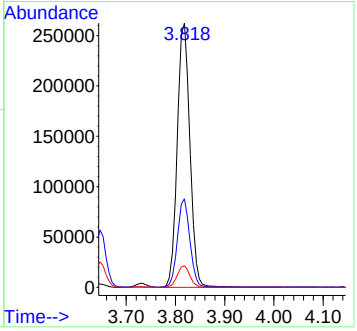


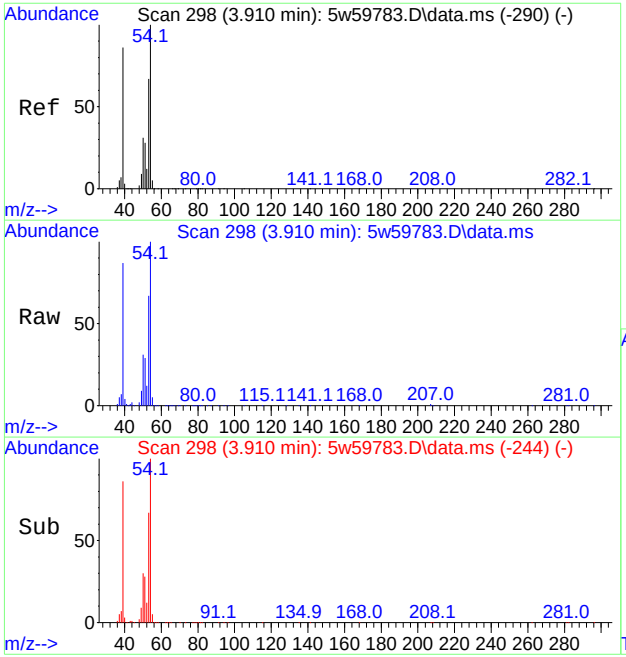


#11
VINYL CHLORIDE
Concen: 9.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 472875

Ion	Ratio	Lower	Upper
62	100		
64	33.6	3.6	63.6
61	8.2	0.0	38.2

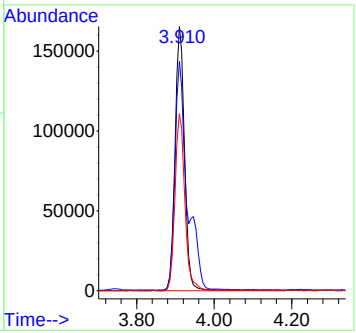


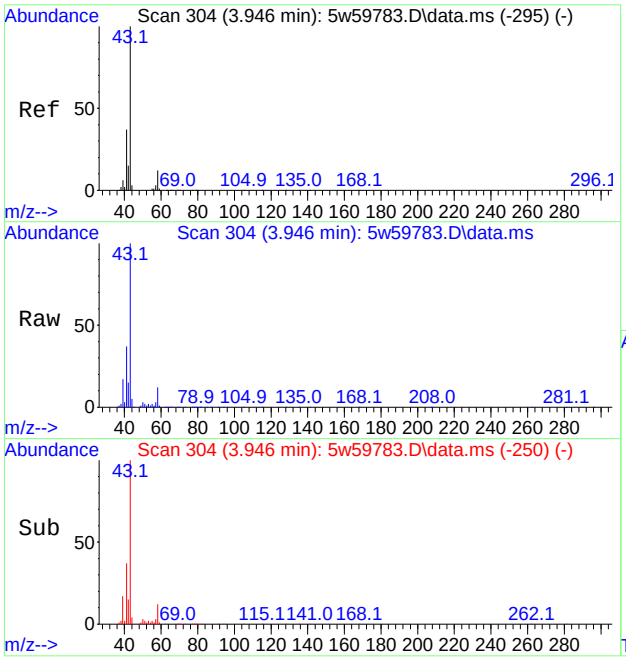


#12
1,3-BUTADIENE
Concen: 8.35 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 54 Resp: 284232

Ion	Ratio	Lower	Upper
54	100		
39	112.0	82.0	142.0
53	70.2	40.2	100.2

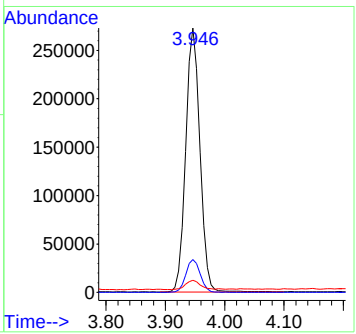


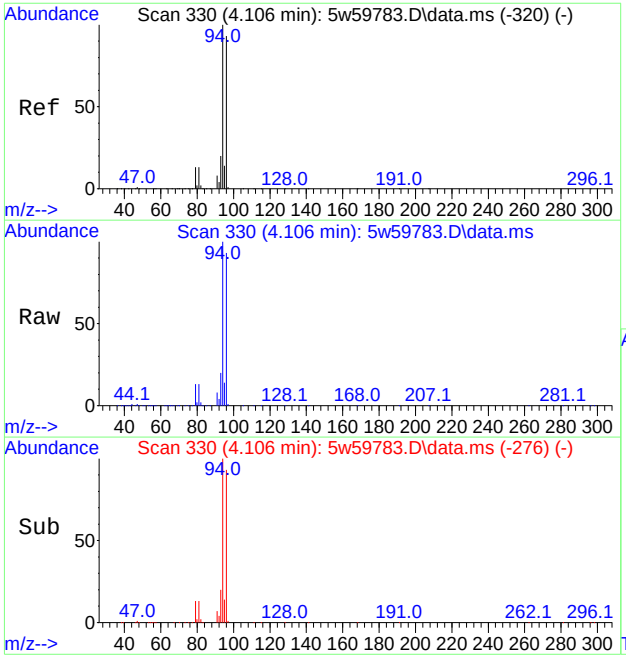


#13
n-BUTANE
Concen: 7.37 PPBV
RT: 3.946 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 454503

Ion	Ratio	Lower	Upper
43	100		
58	12.6	0.0	42.6
44	4.9	0.0	34.9

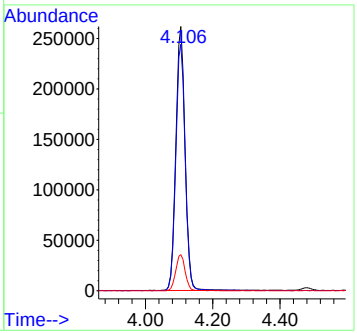


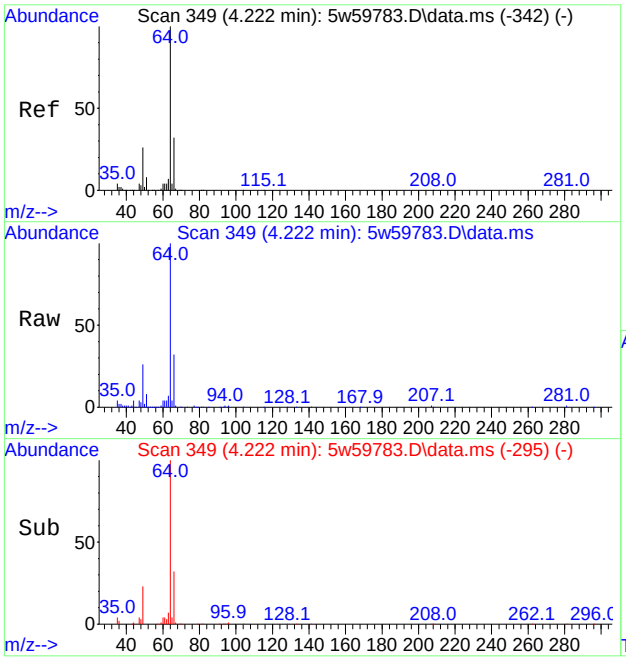


#14
BROMOMETHANE
Concen: 10.05 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 94 Resp: 500092

Ion	Ratio	Lower	Upper
94	100		
96	95.3	65.3	125.3
95	14.1	0.0	44.1

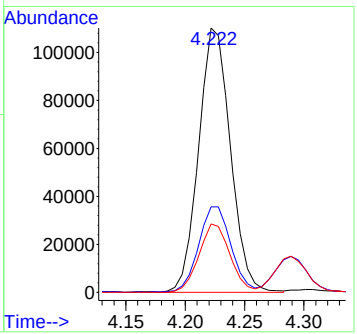


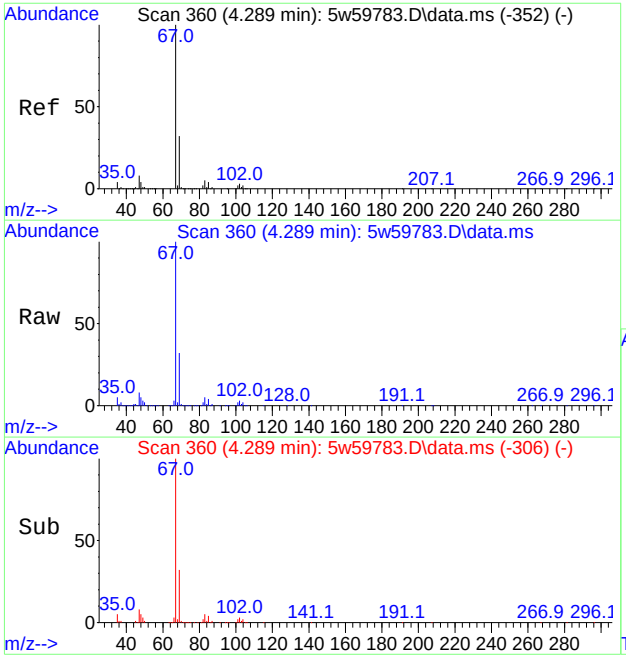


#15
CHLOROETHANE
Concen: 8.90 PPBV
RT: 4.222 min Scan# 349
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 64 Resp: 205309

Ion	Ratio	Lower	Upper
64	100		
66	33.1	3.1	63.1
49	25.3	0.0	55.3

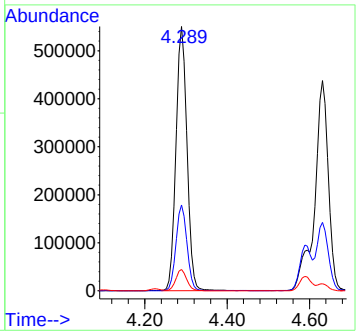


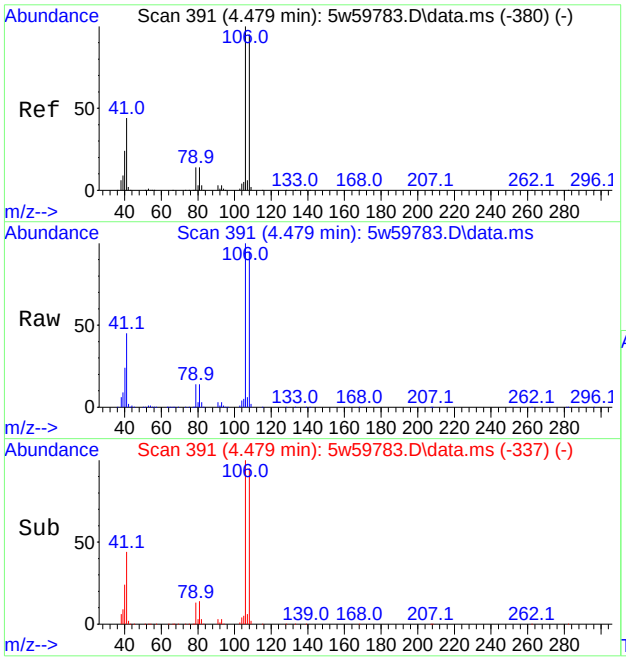


#16
DICHLOROFLUOROMETHANE
Concen: 8.67 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 67 Resp: 1019855

Ion	Ratio	Lower	Upper
67	100		
69	32.5	22.7	42.3
47	8.0	5.6	10.4

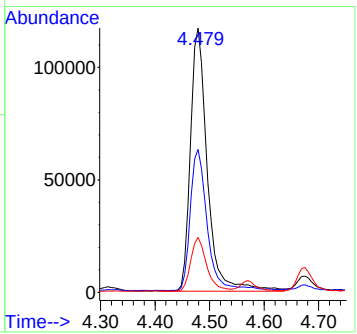


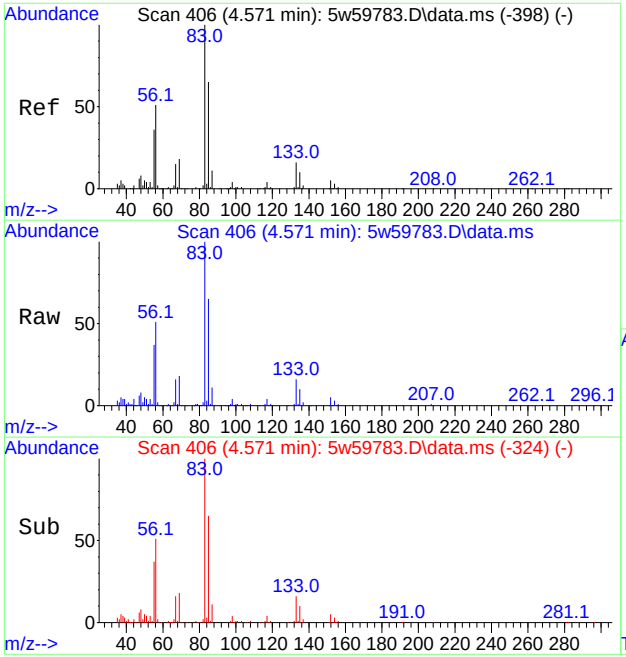


#17
ACETONITRILE
Concen: 7.21 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 41 Resp: 252958

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.1	13.4	24.8

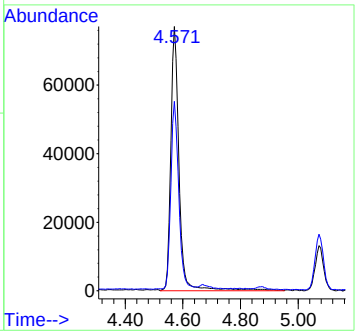


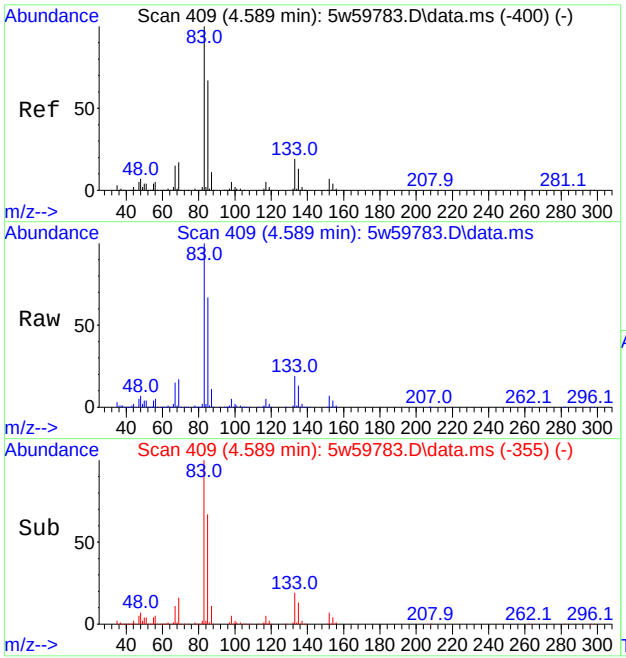


#18
ACROLEIN
Concen: 8.51 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 56 Resp: 155868

Ion	Ratio	Lower	Upper
56	100		
55	66.6	46.6	86.6

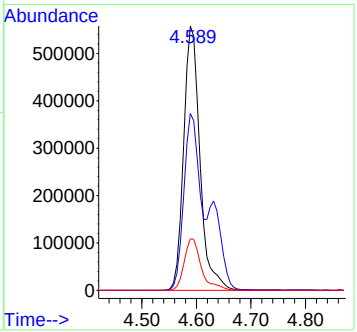


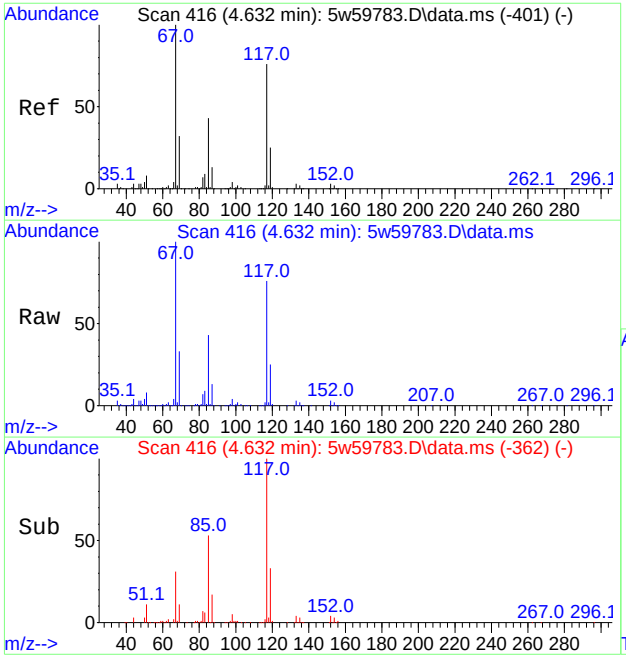


#19
FREON 123
Concen: 9.93 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1157483

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.0	94.0
133	20.7	0.0	50.7

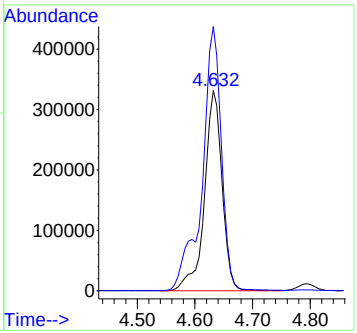


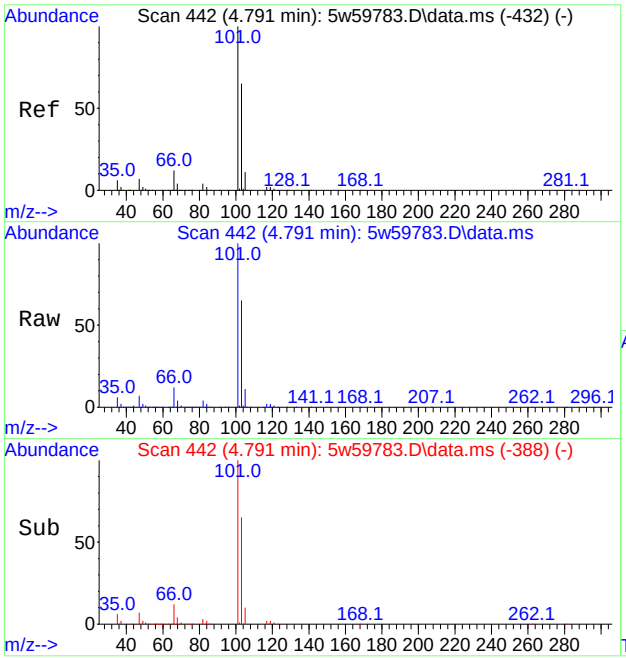


#20
FREON 123A
Concen: 9.69 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 701588

Ion	Ratio	Lower	Upper
117	100		
67	144.6	114.6	174.6

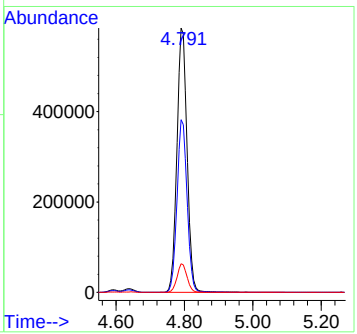




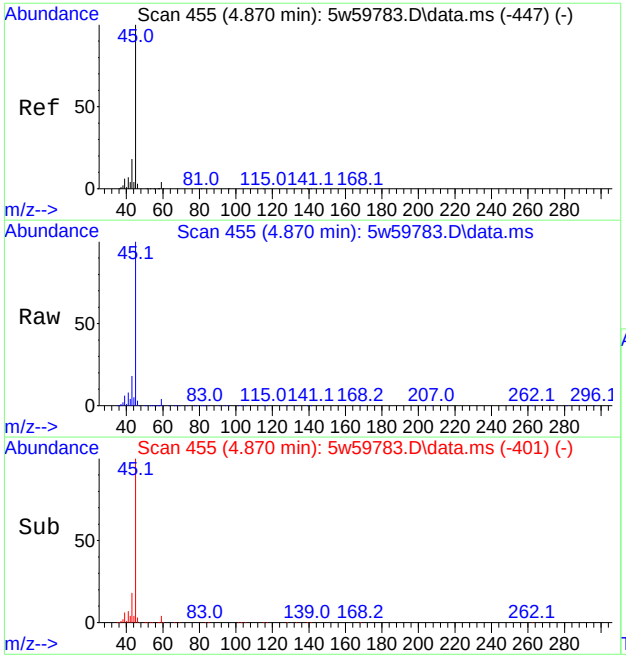
#21
TRICHLOROFLUOROMETHANE
Concen: 7.29 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:101 Resp: 1209415

Ion	Ratio	Lower	Upper
101	100		
103	65.0	35.0	95.0
105	10.7	0.0	40.7



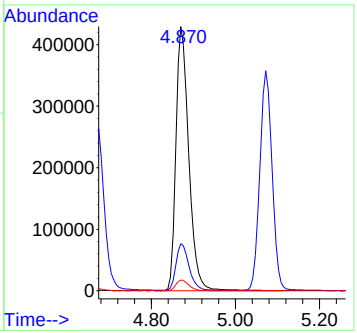
7.7.6

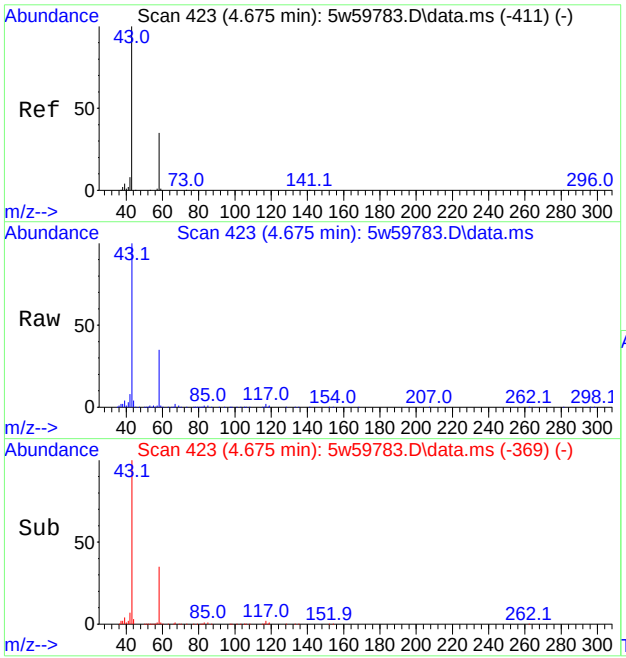


#22
ISOPROPYL ALCOHOL
Concen: 7.67 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 906732

Ion	Ratio	Lower	Upper
45	100		
43	17.8	0.0	47.8
59	4.1	0.0	34.1

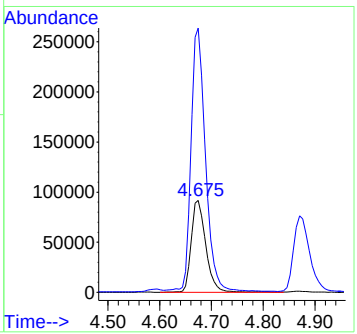


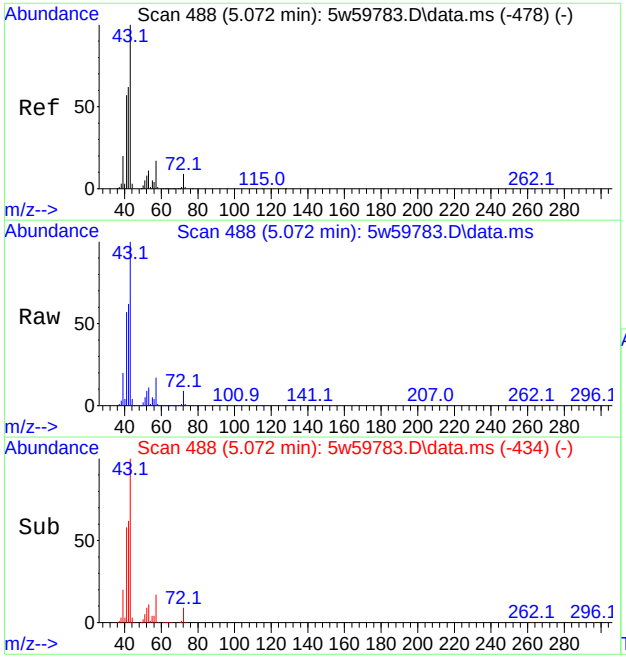


#23
ACETONE
Concen: 8.59 PPBV
RT: 4.675 min Scan# 423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 180987

Ion	Ratio	Lower	Upper
58	100		
43	282.3	252.1	312.1

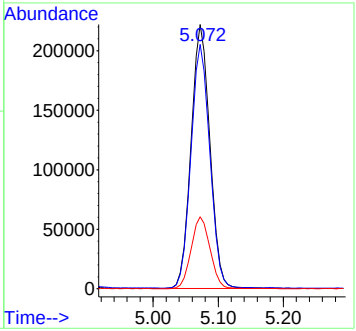


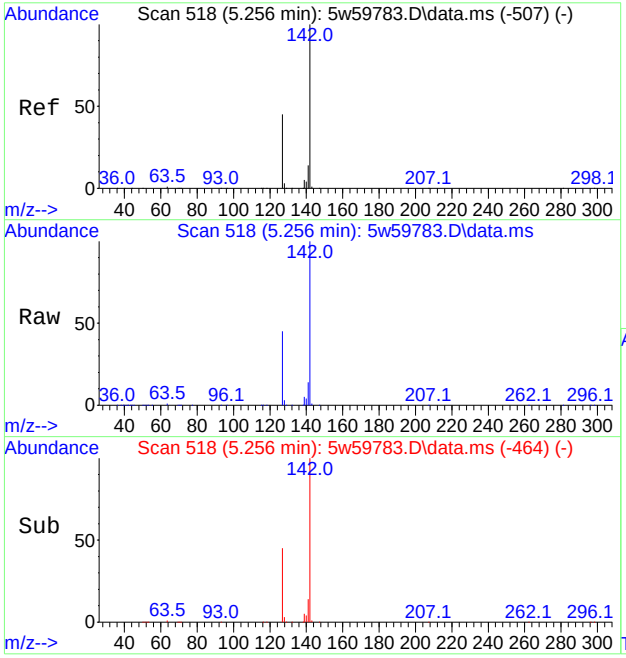


#24
PENTANE
Concen: 7.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 42 Resp: 444915

Ion	Ratio	Lower	Upper
42	100		
41	92.3	62.3	122.3
57	27.7	0.0	57.7

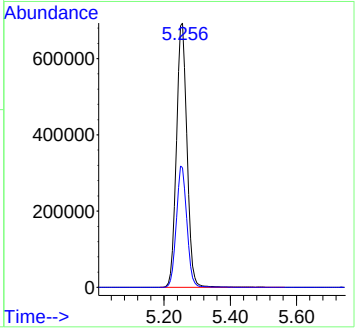


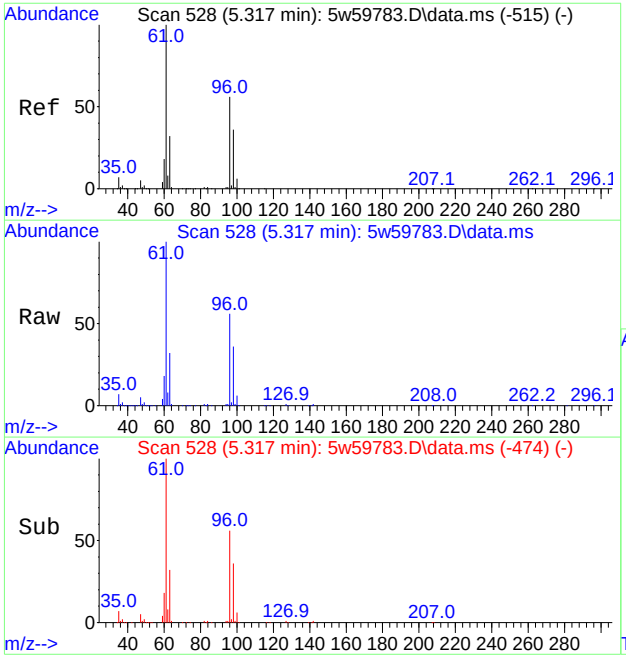


#25
IODOMETHANE
Concen: 10.06 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:142 Resp: 1538968

Ion	Ratio	Lower	Upper
142	100		
127	46.0	16.0	76.0

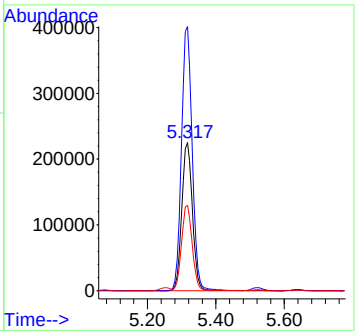


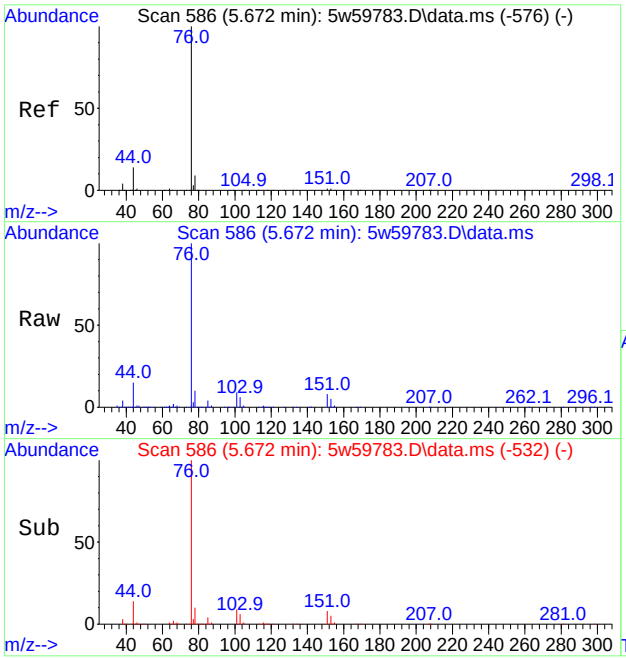


#26
1,1-DICHLOROETHYLENE
Concen: 8.97 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 488317

Ion	Ratio	Lower	Upper
96	100		
61	178.5	148.5	208.5
63	57.4	27.4	87.4

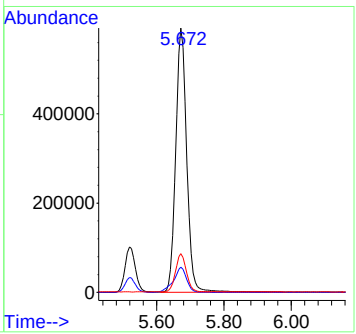


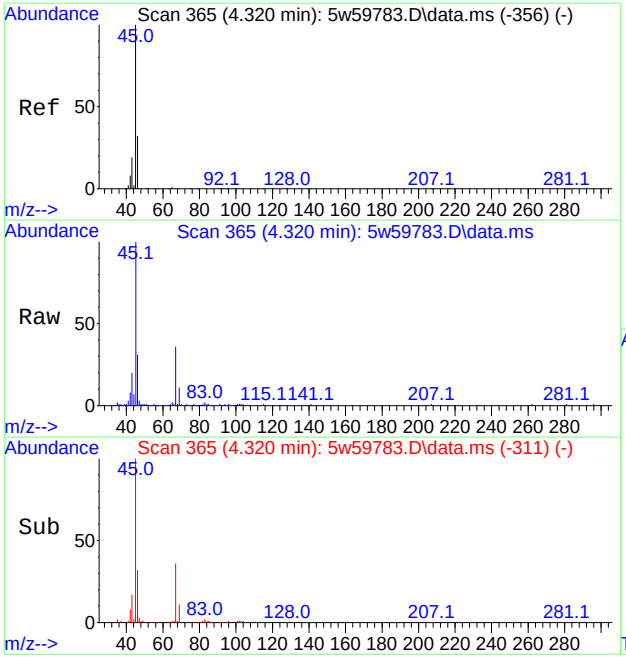


#27
CARBON DISULFIDE
Concen: 9.35 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 1343447

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	41.5
44	14.6	0.0	44.6

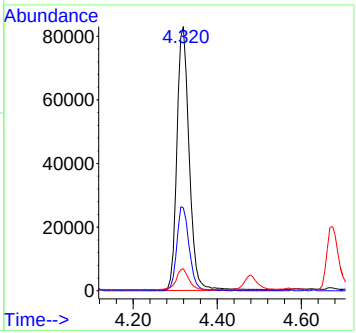


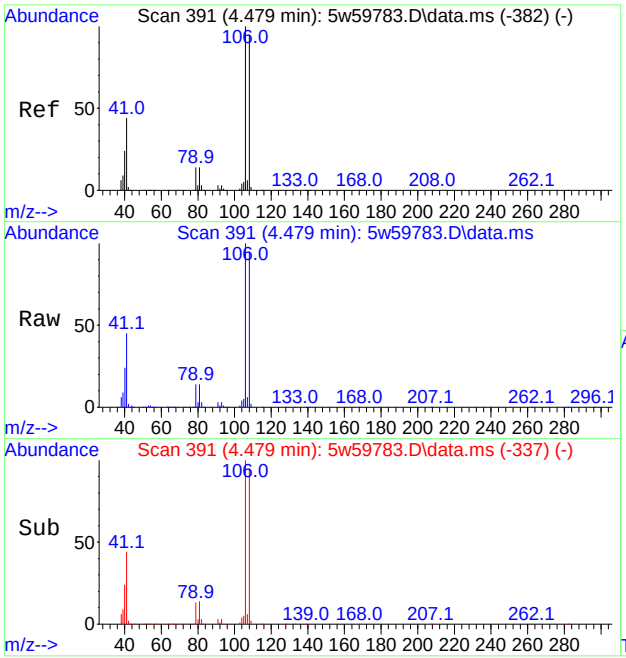


#28
ETHANOL
Concen: 7.22 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 45 Resp: 168471

Ion	Ratio	Lower	Upper
45	100		
46	32.0	2.0	62.0
42	8.5	0.0	38.5

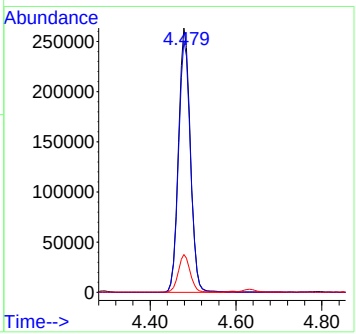


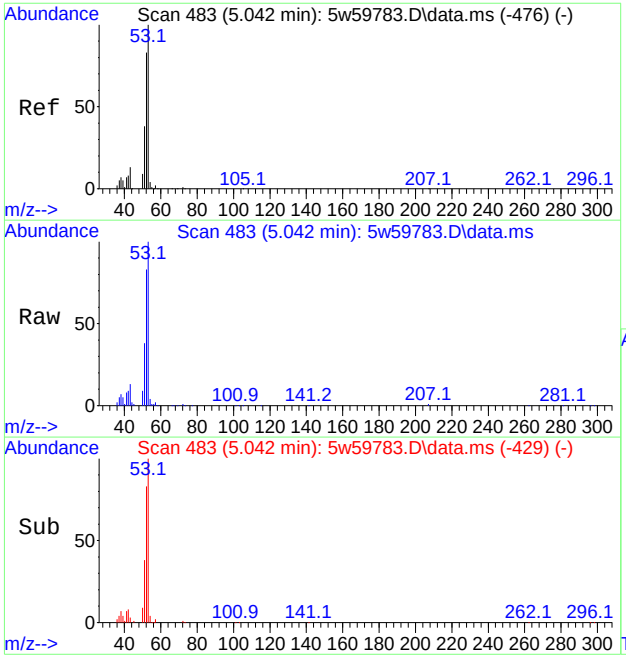


#29
BROMOETHENE
Concen: 10.65 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 508476

Ion	Ratio	Lower	Upper
106	100		
108	95.6	65.6	125.6
81	13.9	0.0	44.0

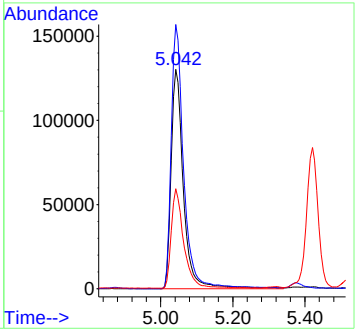


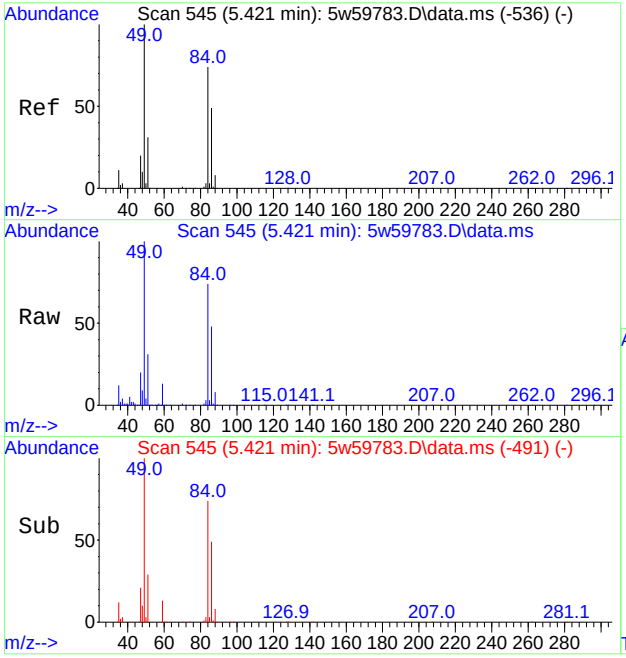


#30
ACRYLONITRILE
Concen: 8.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 52 Resp: 310247

Ion	Ratio	Lower	Upper
52	100		
53	122.6	85.8	159.4
51	46.2	32.3	59.9

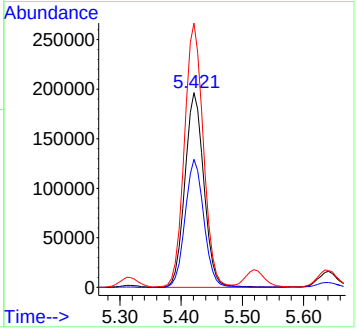


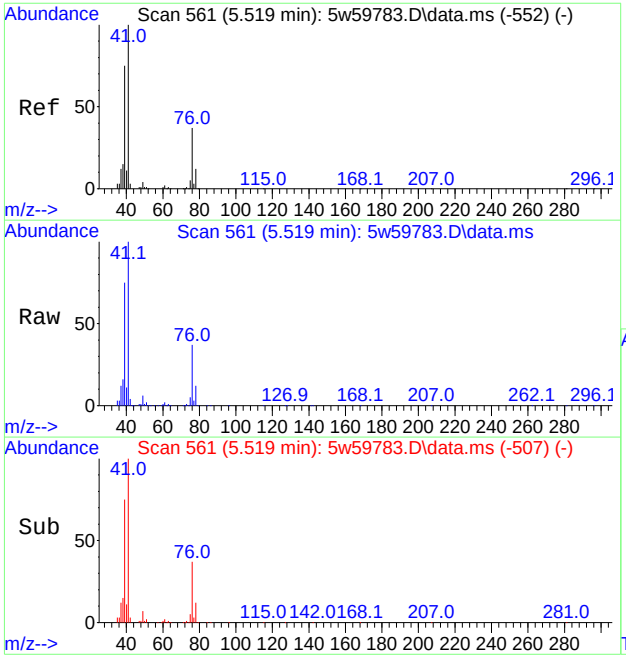


#31
METHYLENE CHLORIDE
Concen: 8.70 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 424759

Ion	Ratio	Lower	Upper
84	100		
86	65.2	35.2	95.2
49	135.3	105.3	165.3

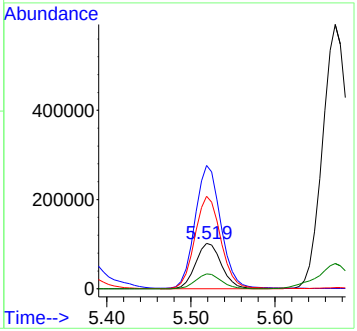


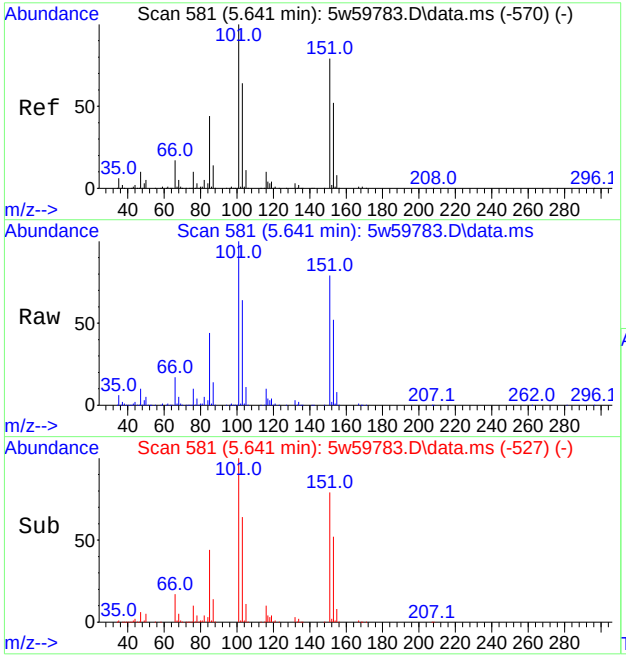


#32
3-CHLOROPROPENE
Concen: 9.74 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 218615

Ion	Ratio	Lower	Upper
76	100		
41	270.8	240.9	300.9
39	203.6	173.3	233.3
78	32.8	2.8	62.8

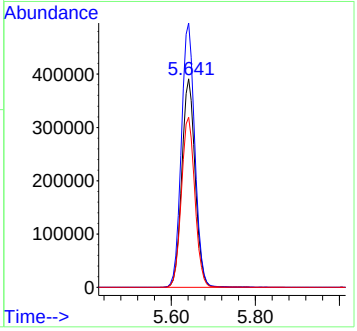


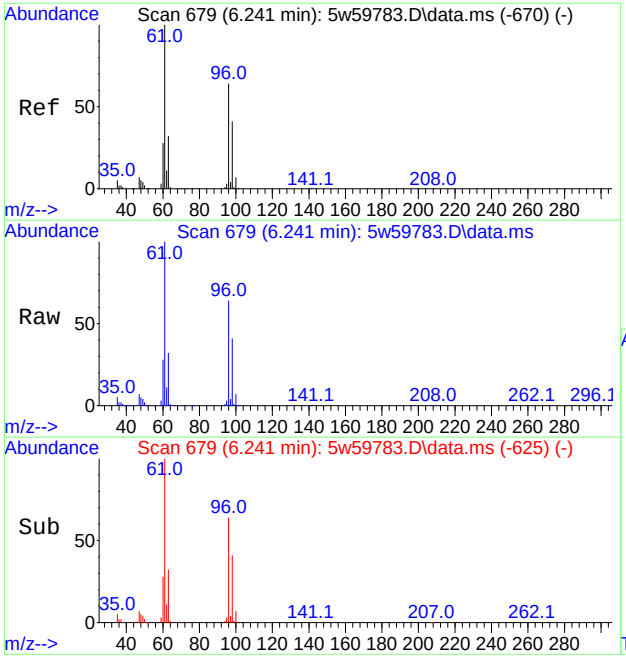


#33
FREON 113
Concen: 9.06 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:151 Resp: 865046

Ion	Ratio	Lower	Upper
151	100		
101	127.5	97.5	157.5
103	82.5	52.5	112.5

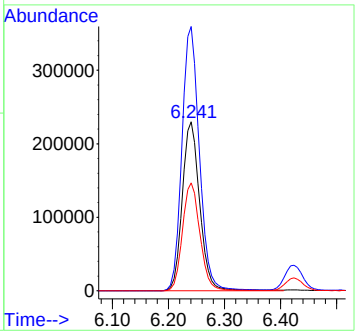


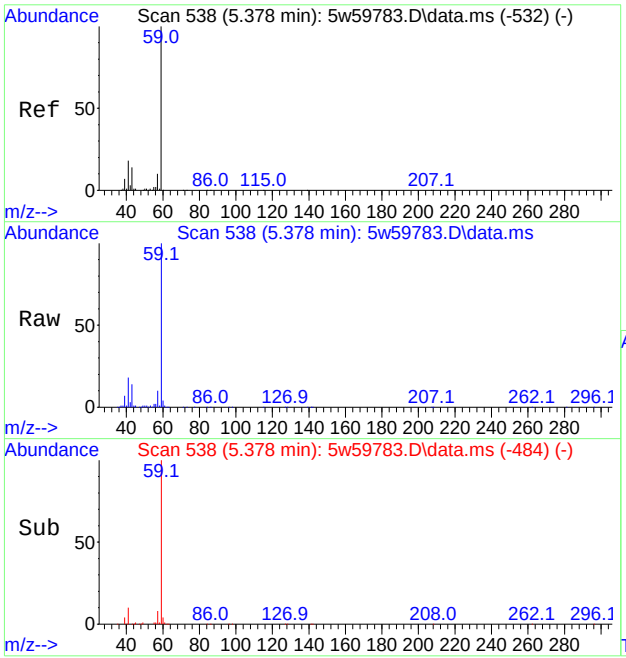


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 8.93 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 496473

Ion	Ratio	Lower	Upper
96	100		
61	156.4	126.4	186.4
98	64.1	34.1	94.1

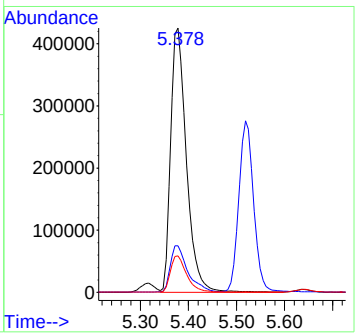


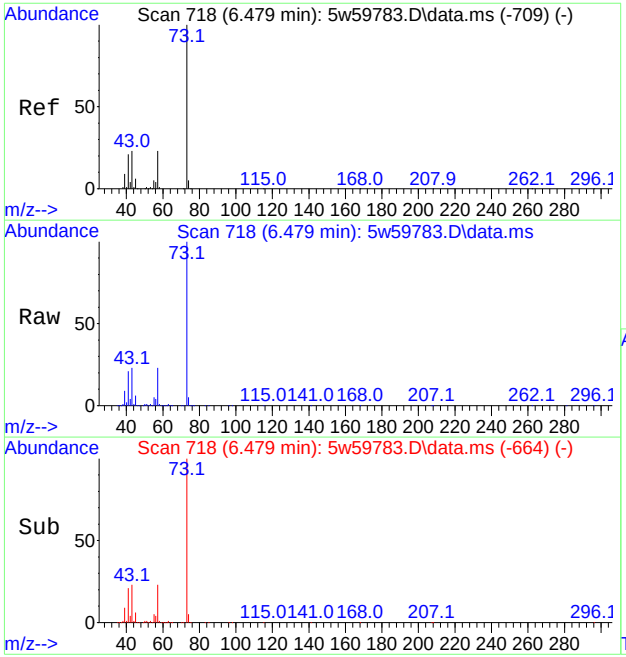


#35
TERTIARY BUTYL ALCOHOL
Concen: 8.31 PPBV
RT: 5.378 min Scan# 538
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 968852

Ion	Ratio	Lower	Upper
59	100		
41	19.3	0.0	49.3
43	14.1	0.0	44.1

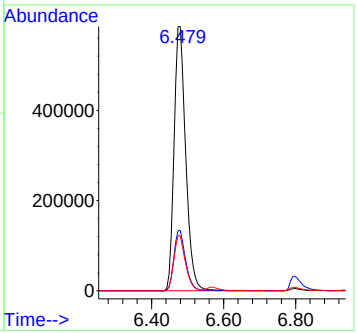


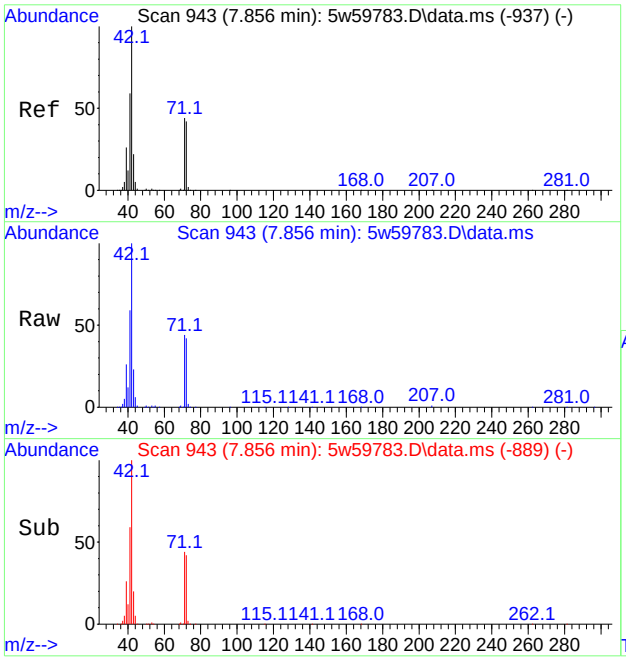


#36
METHYL TERTIARY BUTYL ETHER
Concen: 9.62 PPBV
RT: 6.479 min Scan# 718
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 73 Resp: 1323434

Ion	Ratio	Lower	Upper
73	100		
57	23.1	0.0	53.1
41	20.6	0.0	50.6

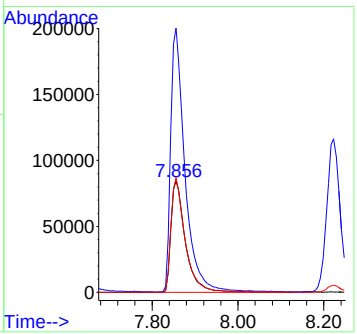


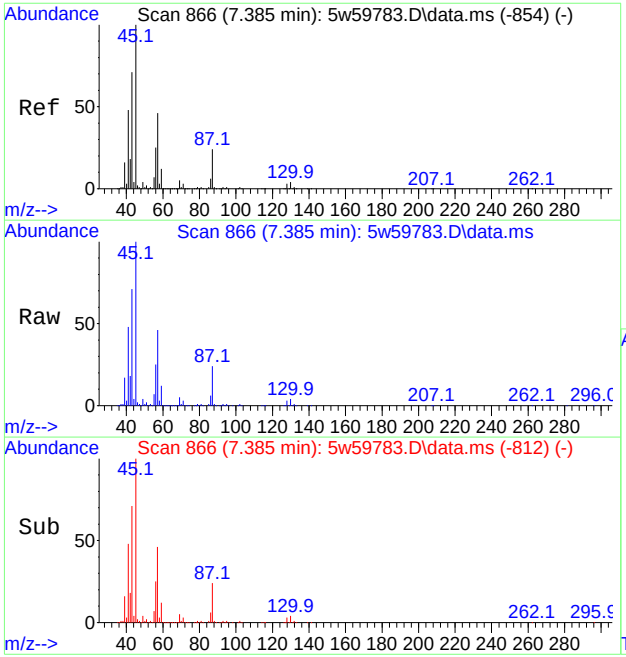


#37
TETRAHYDROFURAN
Concen: 10.87 PPBV
RT: 7.856 min Scan# 943
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 199227

Ion	Ratio	Lower	Upper
72	100		
42	232.4	202.4	262.4
71	101.1	71.1	131.1

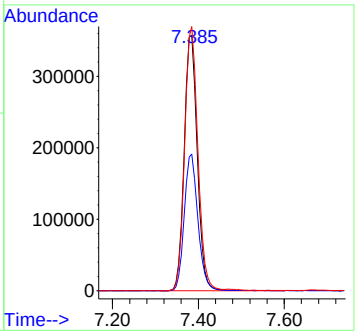


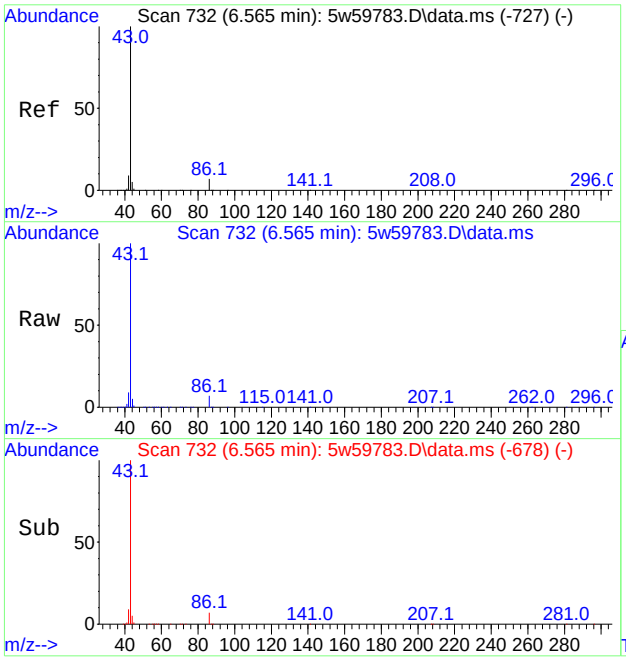


#38
HEXANE
Concen: 9.88 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 758015

Ion	Ratio	Lower	Upper
57	100		
56	55.9	25.9	85.9
41	104.7	74.7	134.7

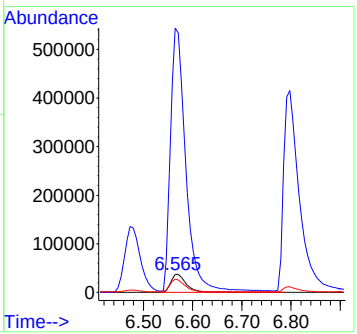


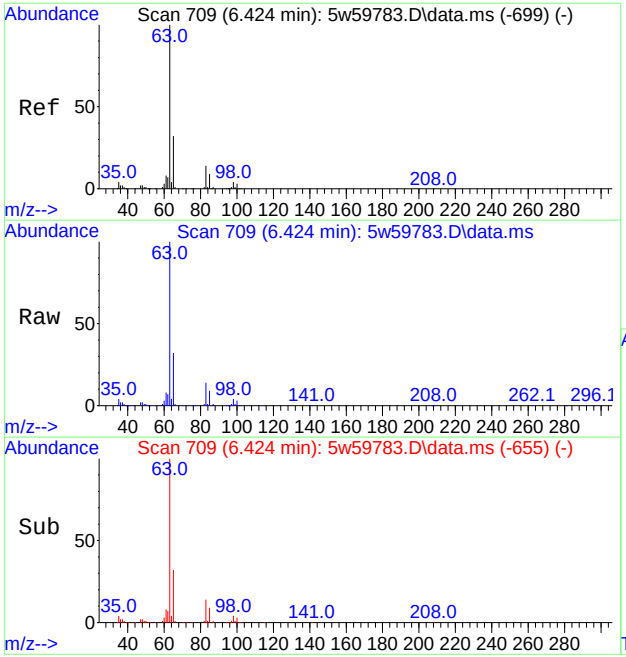


#39
VINYL ACETATE
Concen: 9.01 PPBV
RT: 6.565 min Scan# 732
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 86 Resp: 82624

Ion	Ratio	Lower	Upper
86	100		
43	1409.7	1379.7	1439.7
44	66.9	36.9	96.9

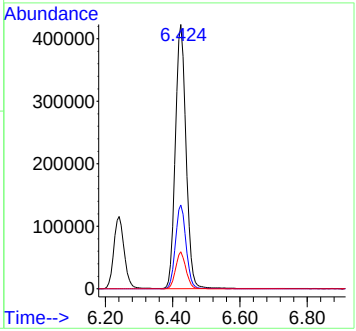


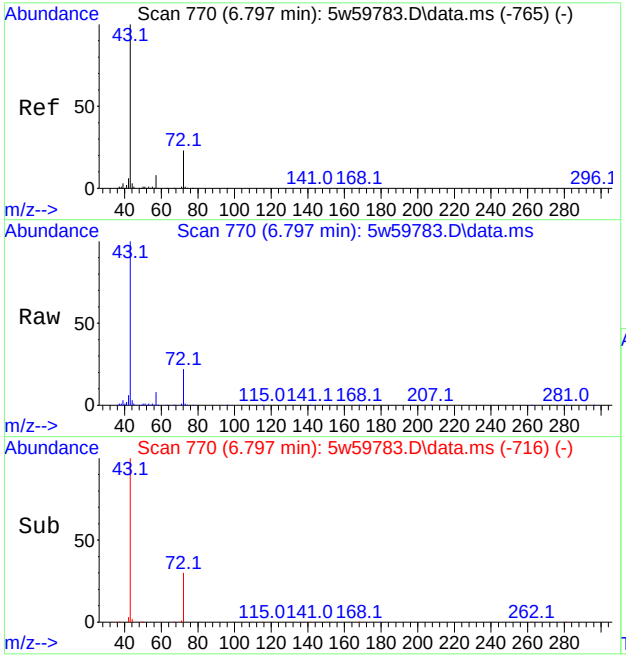


#40
1,1-DICHLOROETHANE
Concen: 9.18 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 931030

Ion	Ratio	Lower	Upper
63	100		
65	31.7	1.7	61.7
83	13.5	0.0	43.5

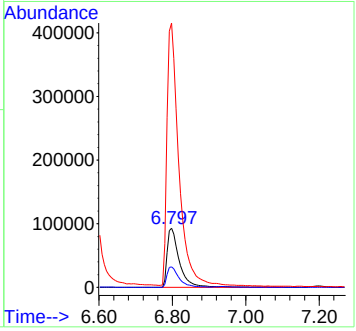


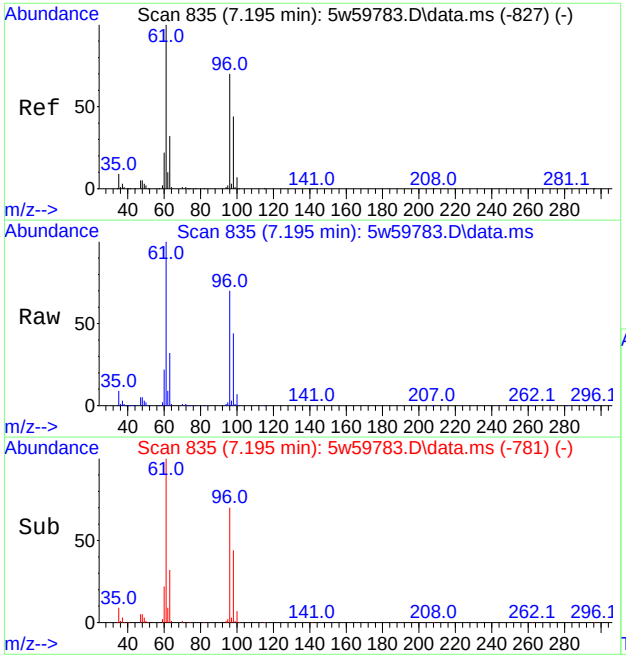


#41
METHYL ETHYL KETONE
Concen: 11.31 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 72 Resp: 216147

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	445.9	415.9	475.9

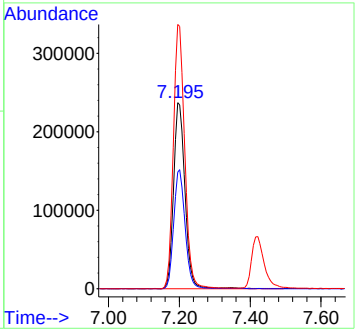


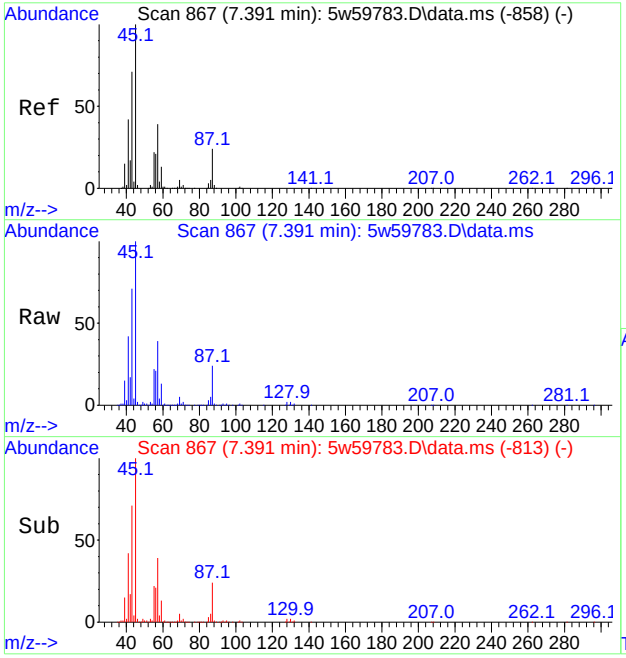


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.24 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 96 Resp: 529578

Ion	Ratio	Lower	Upper
96	100		
98	64.0	34.0	94.0
61	141.5	111.5	171.5

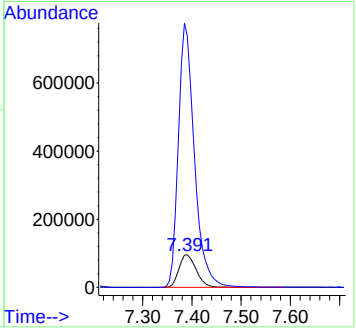


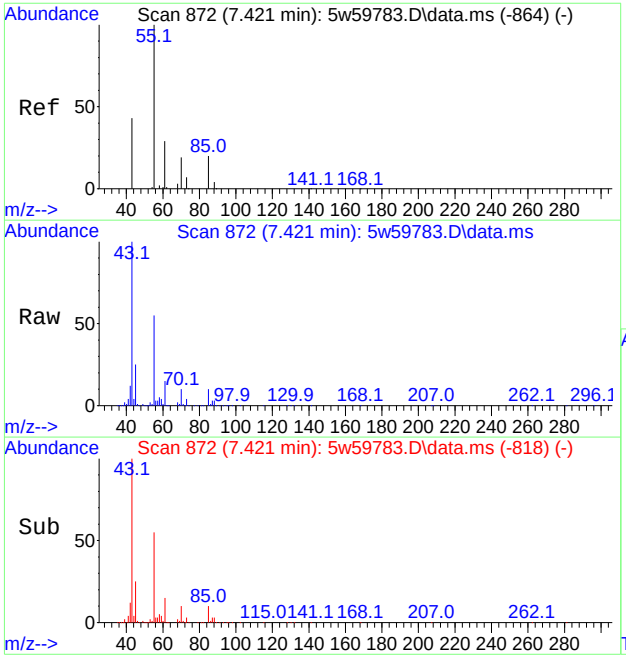


#43
DIISOPROPYL ETHER
Concen: 11.29 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 59 Resp: 234936

Ion	Ratio	Lower	Upper
59	100		
45	750.9	720.9	780.9

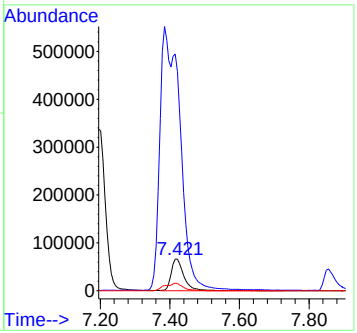


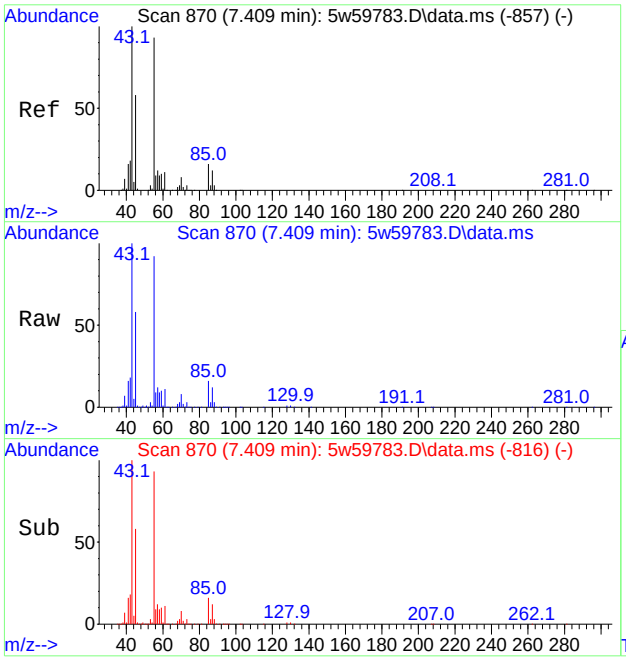


#44
ETHYL ACETATE
Concen: 10.80 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 61 Resp: 169787

Ion	Ratio	Lower	Upper
61	100		
43	590.5	581.3	641.3
88	34.5	4.5	64.5

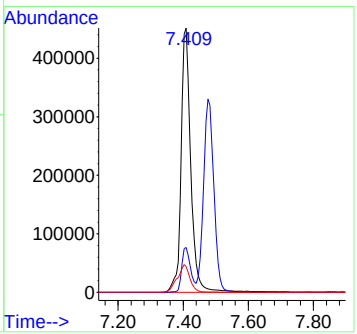


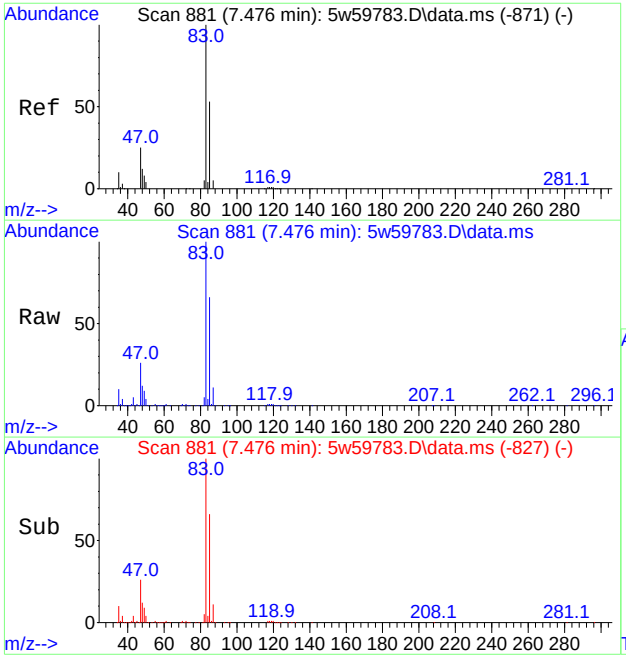


#45
METHYL ACRYLATE
Concen: 10.40 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 948651

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.5	9.4	17.6

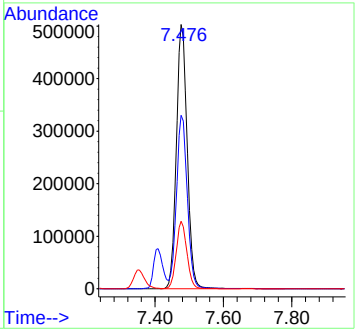


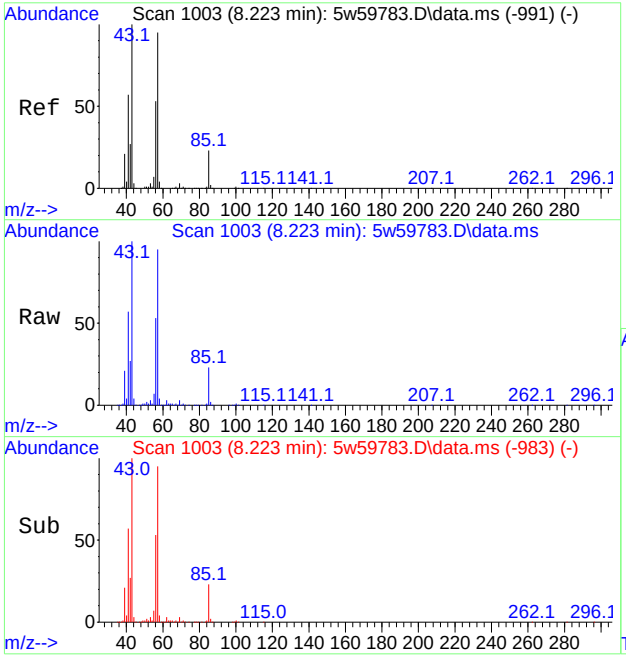


#46
CHLOROFORM
Concen: 9.51 PPBV
RT: 7.476 min Scan# 881
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1113306

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.5	95.5
47	25.2	0.0	55.2

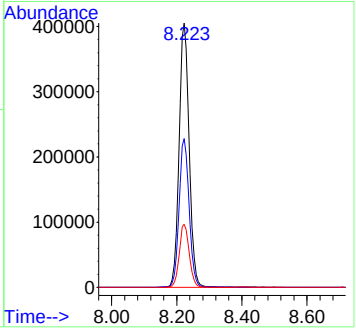


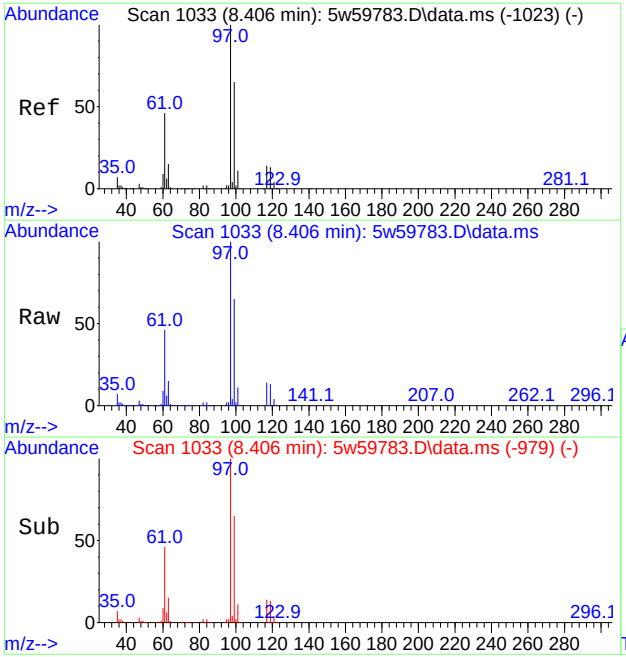


#47
2,4-DIMETHYLPENTANE
Concen: 9.73 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 877406

Ion	Ratio	Lower	Upper
57	100		
56	56.5	26.5	86.5
85	23.8	0.0	53.8

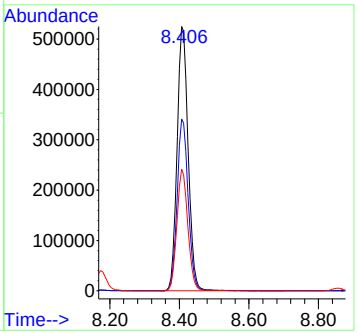


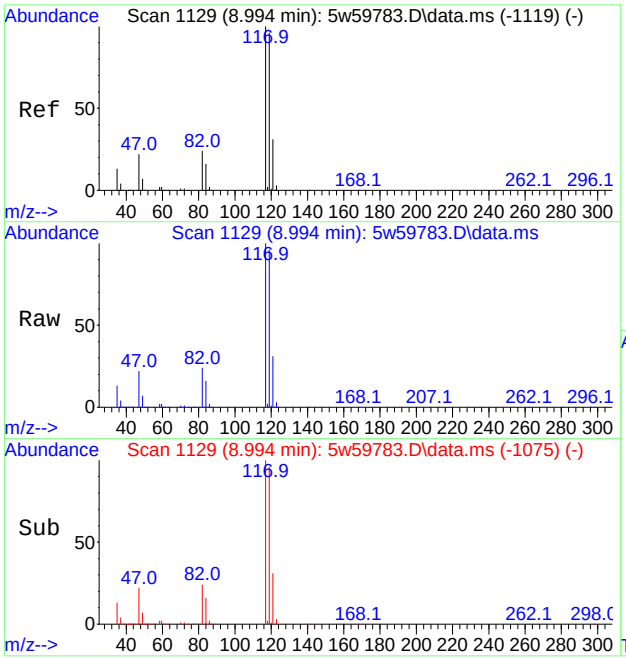


#48
1,1,1-TRICHLOROETHANE
Concen: 9.11 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 97 Resp: 1165134

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.8	94.8
61	45.8	15.8	75.8

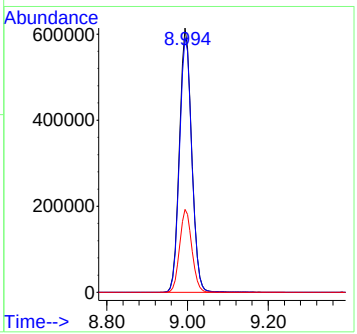


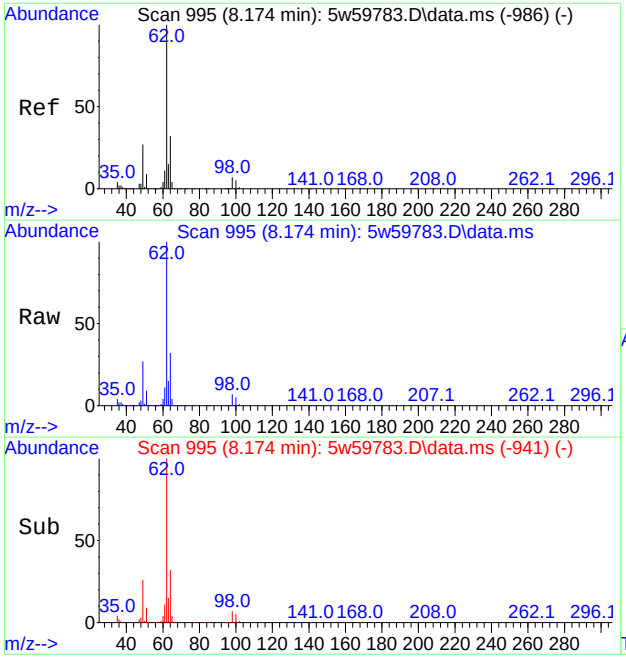


#49
CARBON TETRACHLORIDE
Concen: 9.17 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1296040

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.3	1.3	61.3

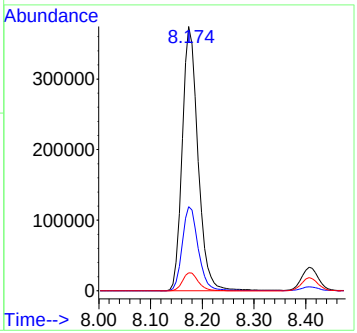


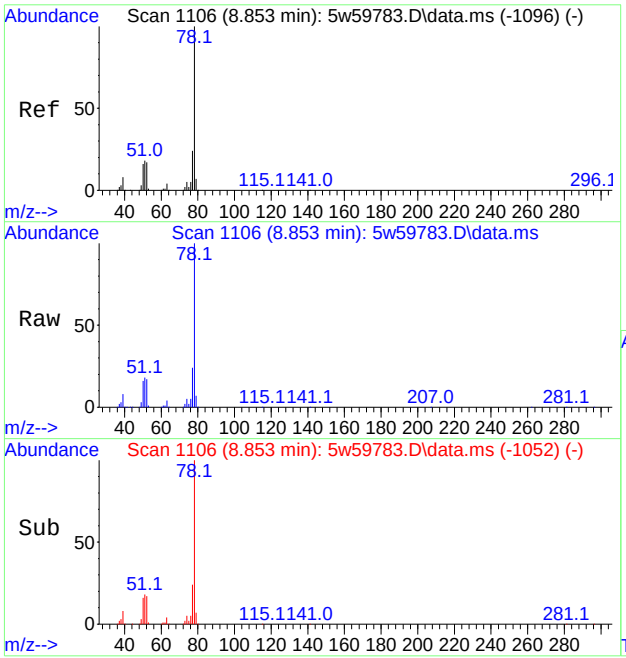


#50
1,2-DICHLOROETHANE
Concen: 9.55 PPBV
RT: 8.174 min Scan# 995
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 62 Resp: 793795

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	6.9	0.0	36.9

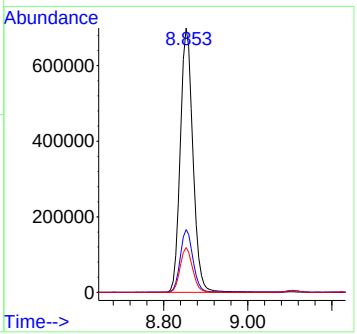


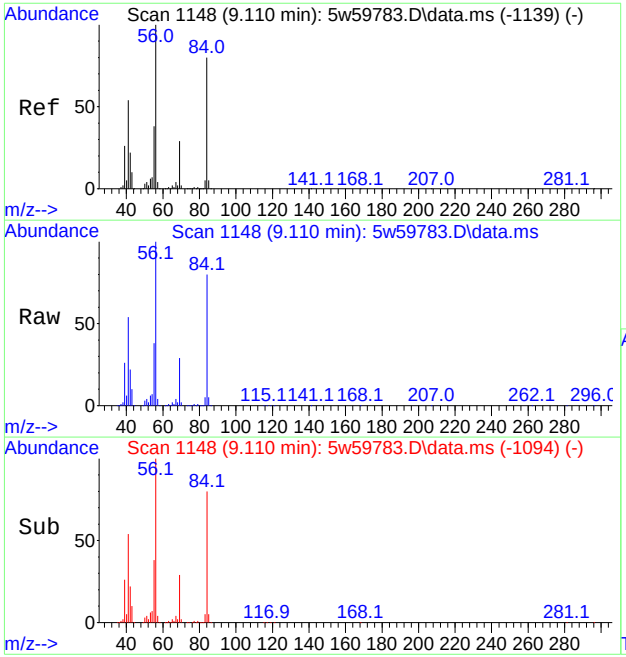


#52
BENZENE
Concen: 10.93 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 78 Resp: 1461752

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.8
52	16.9	0.0	46.9

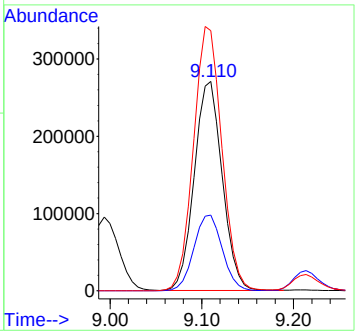


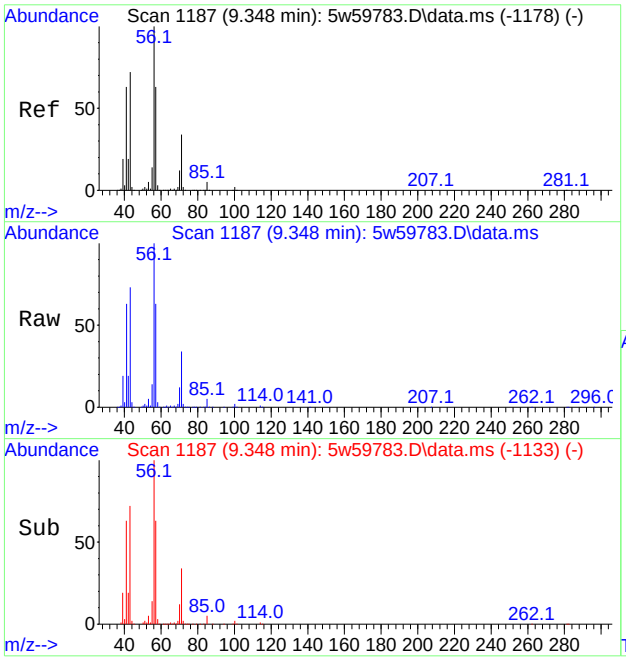


#53
CYCLOHEXANE
Concen: 10.80 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 84 Resp: 573806

Ion	Ratio	Lower	Upper
84	100		
69	36.9	6.9	66.9
56	128.2	98.2	158.2

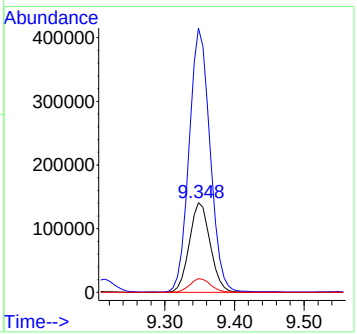


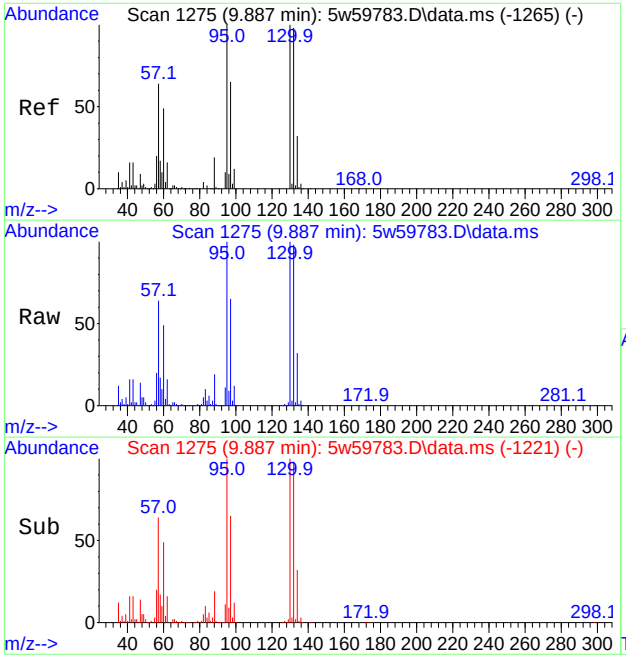


#54
2,3-DIMETHYLPENTANE
Concen: 10.99 PPBV
RT: 9.348 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 71 Resp: 294377

Ion	Ratio	Lower	Upper
71	100		
56	294.6	264.6	324.6
85	15.3	0.0	45.3

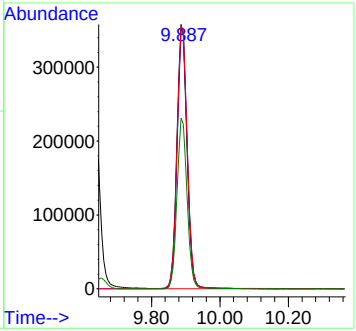


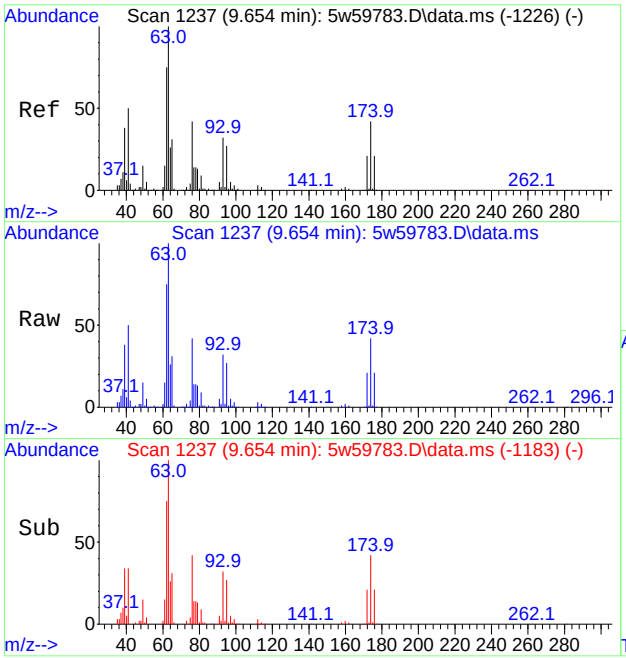


#55
TRICHLOROETHYLENE
Concen: 10.30 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 95 Resp: 733457

Ion	Ratio	Lower	Upper
95	100		
132	99.0	69.0	129.0
130	100.6	70.6	130.6
97	64.6	34.6	94.6

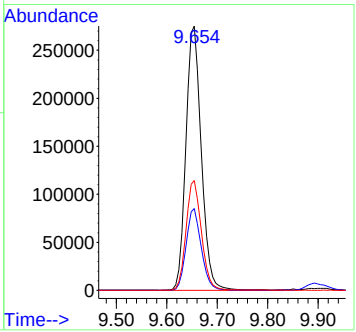


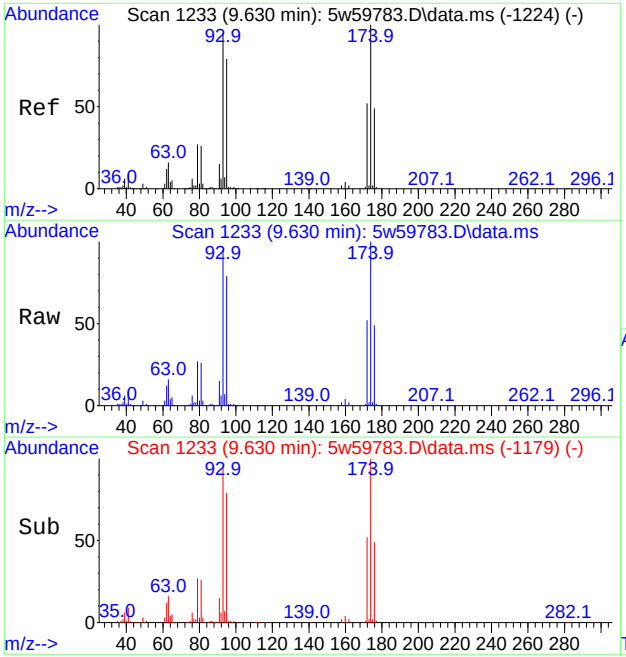


#56
1,2-DICHLOROPROPANE
Concen: 10.35 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 63 Resp: 587338

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.5	11.5	71.5

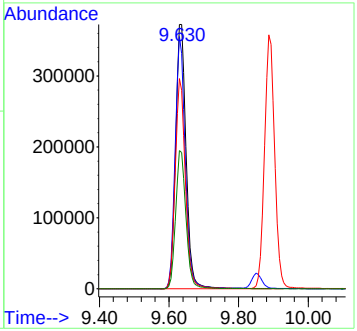


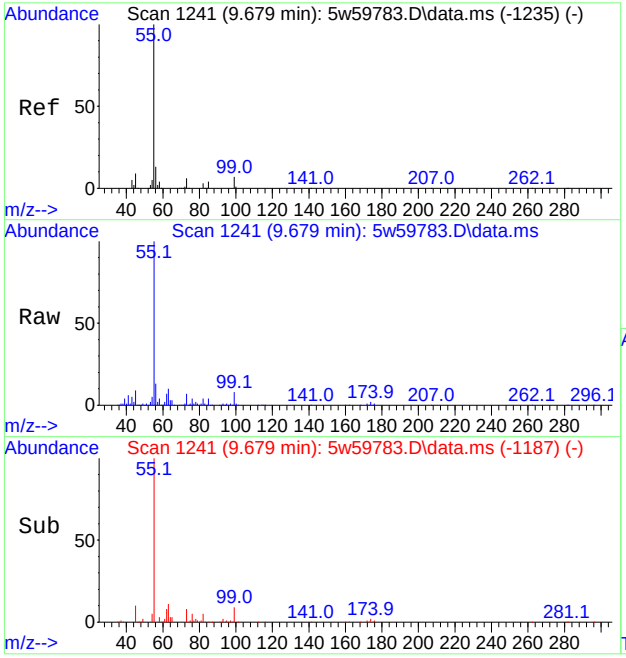


#57
DIBROMOMETHANE
Concen: 9.96 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:174 Resp: 777595

Ion	Ratio	Lower	Upper
174	100		
93	92.8	65.0	120.6
95	77.8	54.5	101.1
172	51.9	36.3	67.5

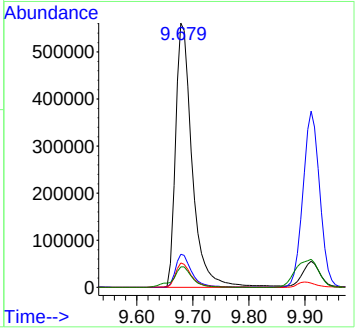


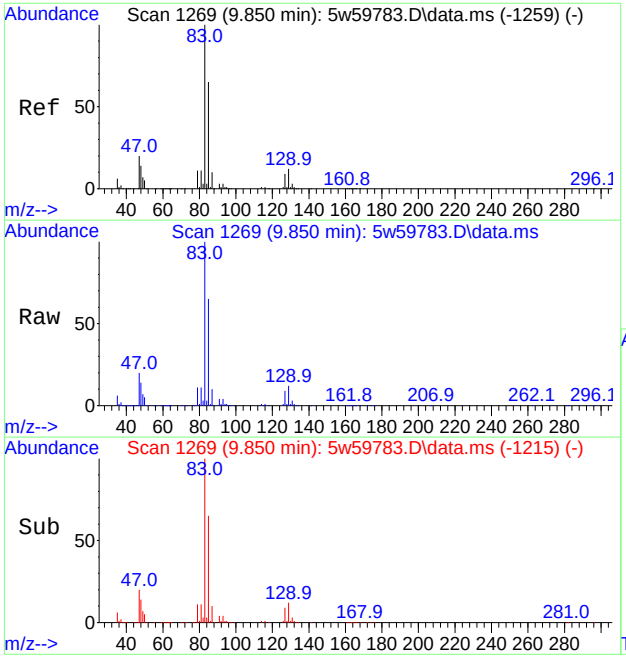


#58
ETHYL ACRYLATE
Concen: 11.15 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 55 Resp: 1150308

Ion	Ratio	Lower	Upper
55	100		
56	12.3	8.6	16.0
45	9.4	6.6	12.2
99	9.2	6.4	12.0

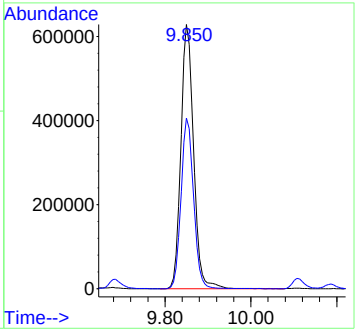


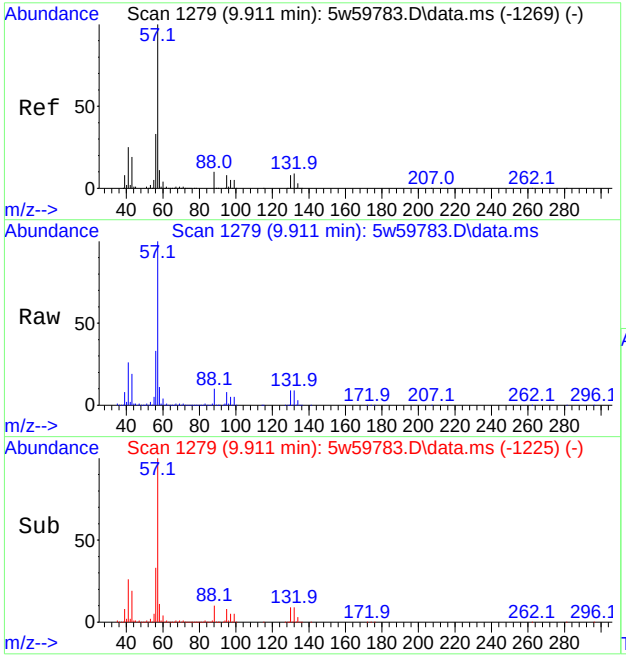


#59
BROMODICHLOROMETHANE
Concen: 10.19 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1291376

Ion	Ratio	Lower	Upper
83	100		
85	63.4	33.4	93.4

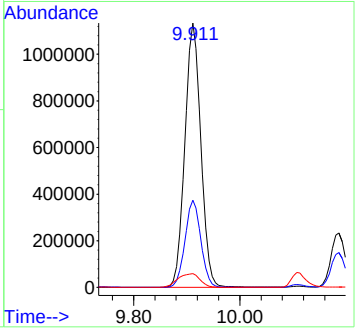


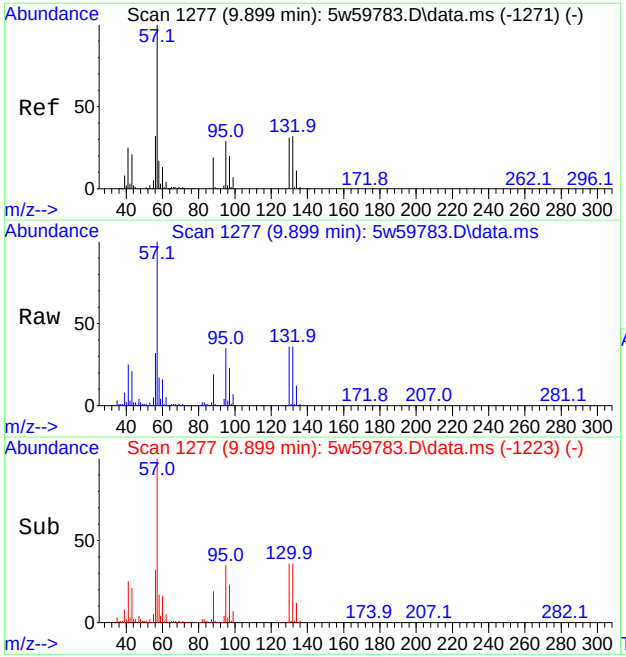


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.46 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 57 Resp: 2382864

Ion	Ratio	Lower	Upper
57	100		
56	32.5	2.5	62.5
99	7.3	0.0	37.3

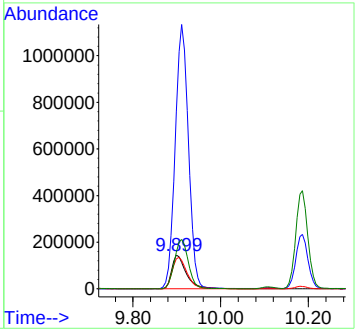


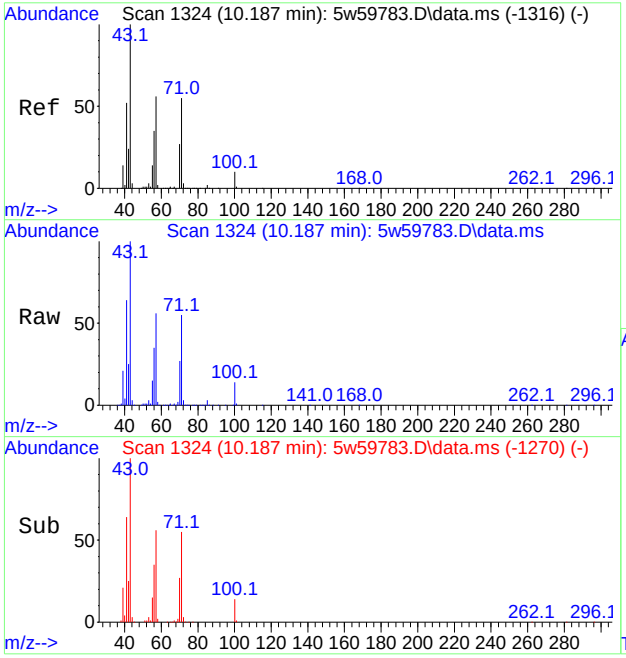


#61
1,4-DIOXANE
Concen: 12.16 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 88 Resp: 335180

Ion	Ratio	Lower	Upper
88	100		
57	524.2	494.2	554.2
58	88.9	58.9	118.9
43	108.3	78.3	138.3

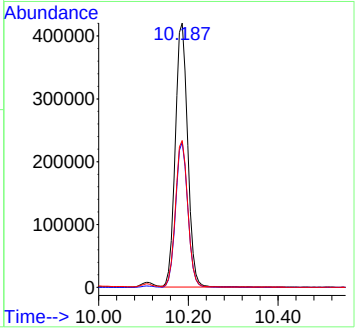


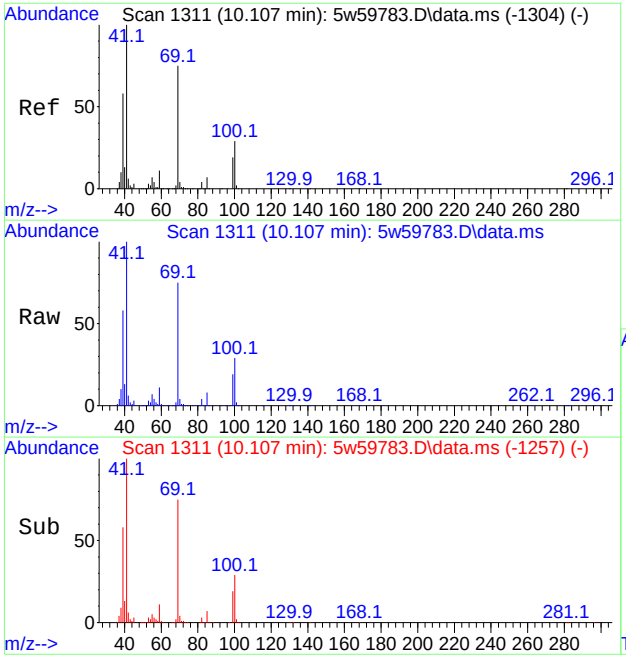


#62
HEPTANE
Concen: 9.62 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 809108

Ion	Ratio	Lower	Upper
43	100		
71	54.5	24.5	84.5
57	56.2	26.2	86.2

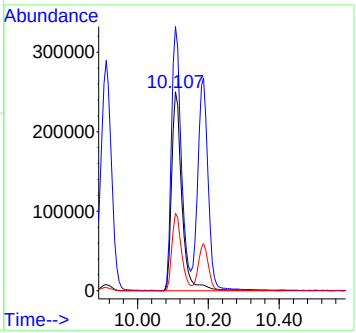


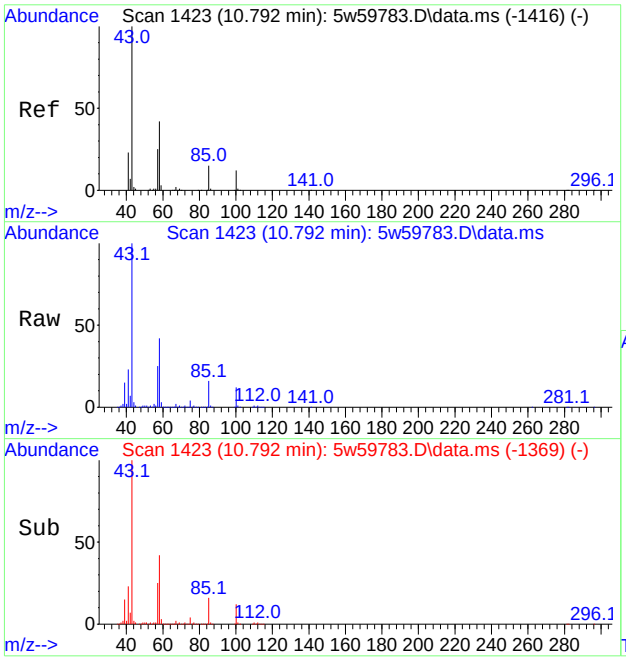


#63
METHYL METHACRYLATE
Concen: 12.20 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 505563

Ion	Ratio	Lower	Upper
69	100		
41	125.3	95.3	155.3
100	36.3	6.3	66.3

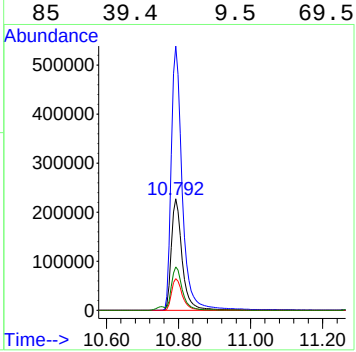


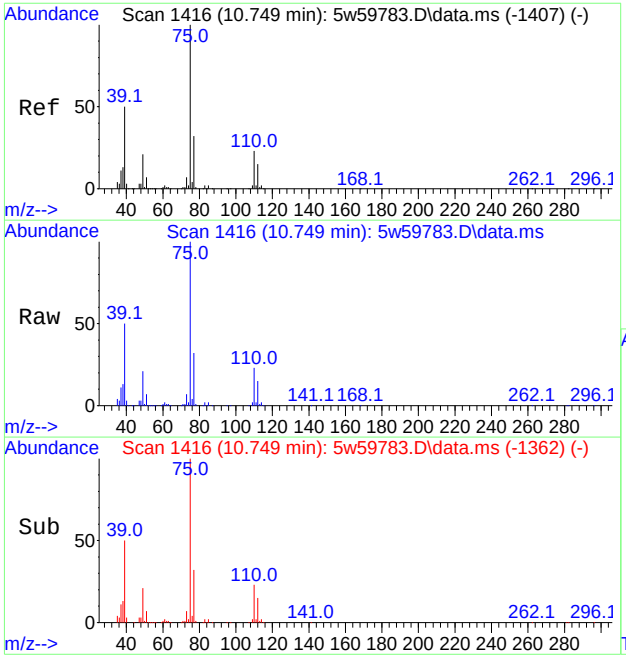


#64
METHYL ISOBUTYL KETONE
Concen: 11.29 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 480676

Ion	Ratio	Lower	Upper
58	100		
43	239.2	209.1	269.1
100	28.8	0.0	58.8
85	39.4	9.5	69.5

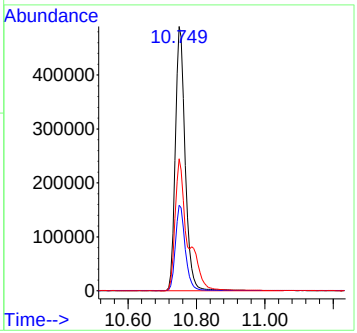


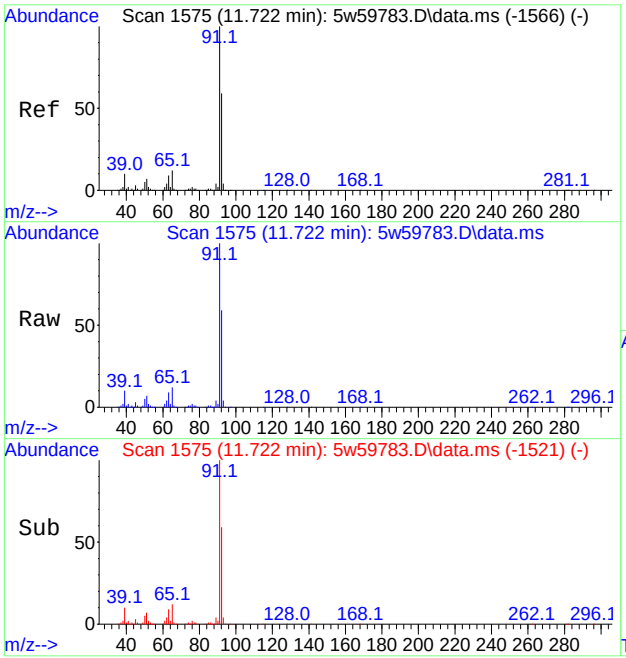


#65
cis-1,3-DICHLOROPROPENE
Concen: 11.23 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 988291

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.3	19.2	79.2

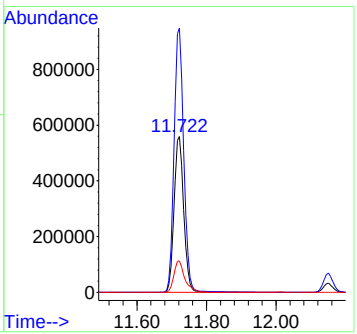


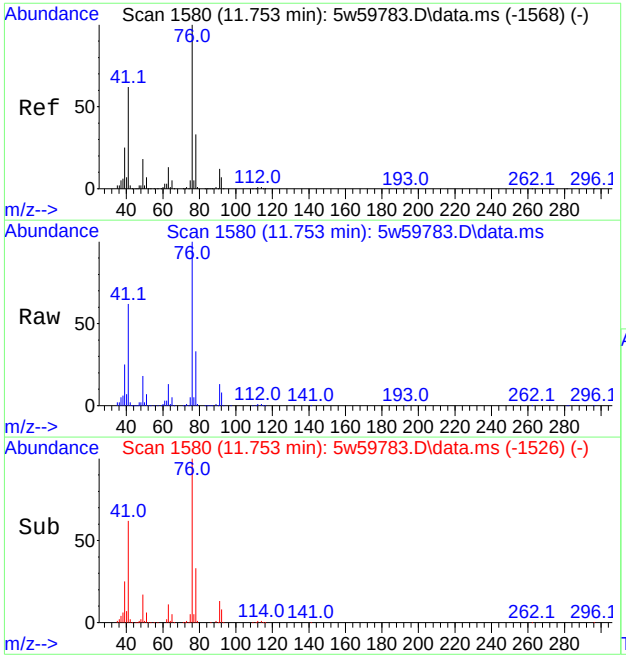


#66
TOLUENE
Concen: 11.29 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 92 Resp: 1078428

Ion	Ratio	Lower	Upper
92	100		
91	170.1	140.1	200.1
65	23.1	0.0	53.1

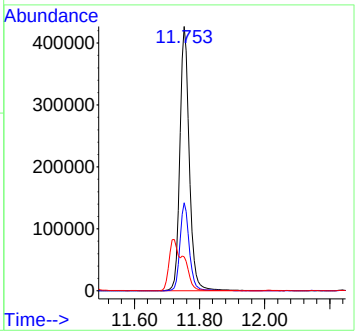


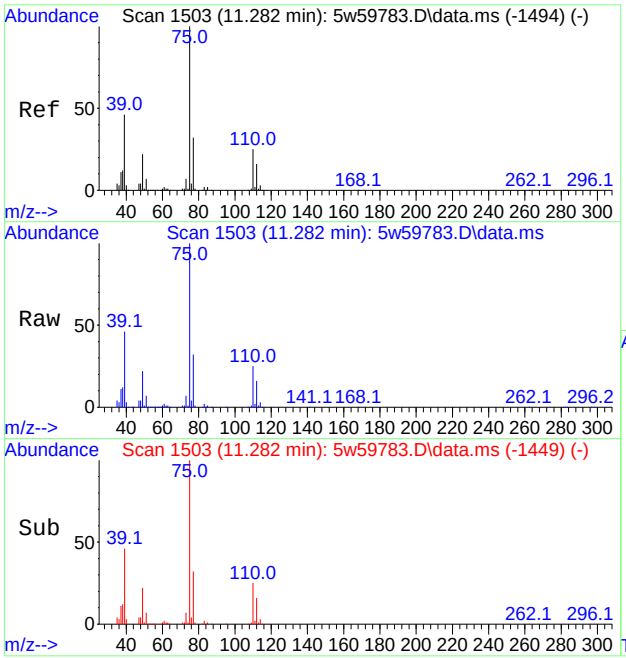


#67
1,3-DICHLOROPROPANE
Concen: 10.80 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 76 Resp: 866163

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	10.1	7.2	13.4

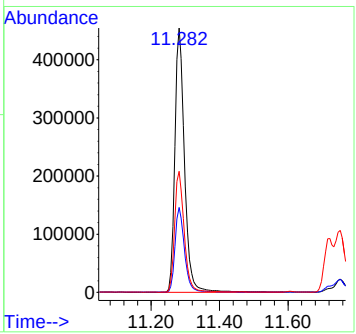


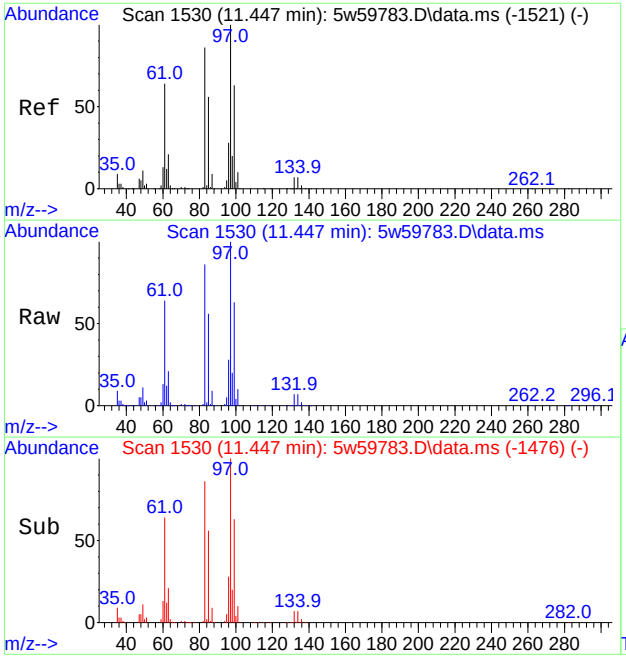


#68
trans-1,3-DICHLOROPROPENE
Concen: 11.02 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 890794

Ion	Ratio	Lower	Upper
75	100		
77	31.6	1.7	61.7
39	46.1	16.2	76.2

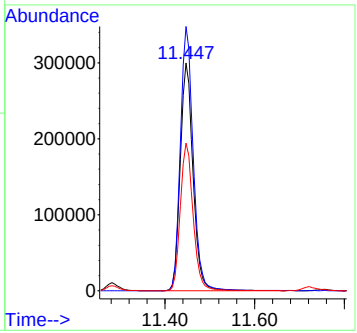


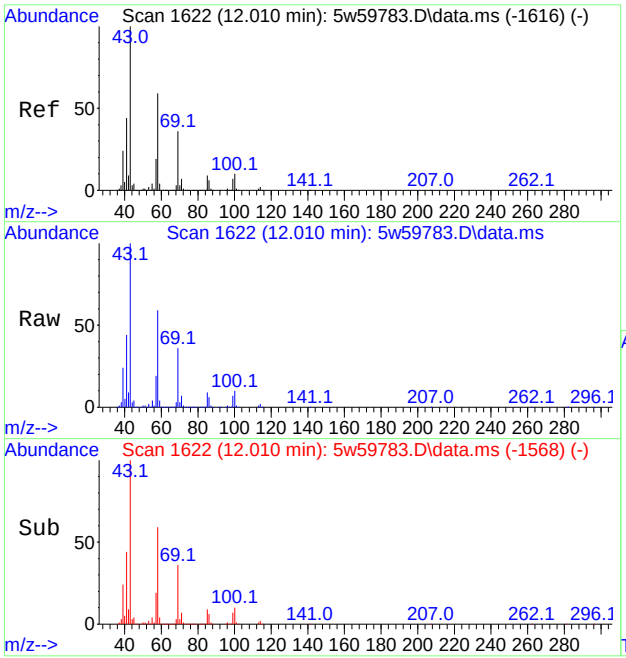


#69
1,1,2-TRICHLOROETHANE
Concen: 11.35 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 593800

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.3	35.3	95.3

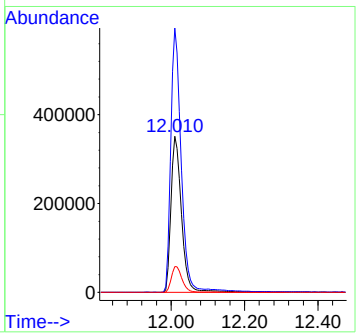


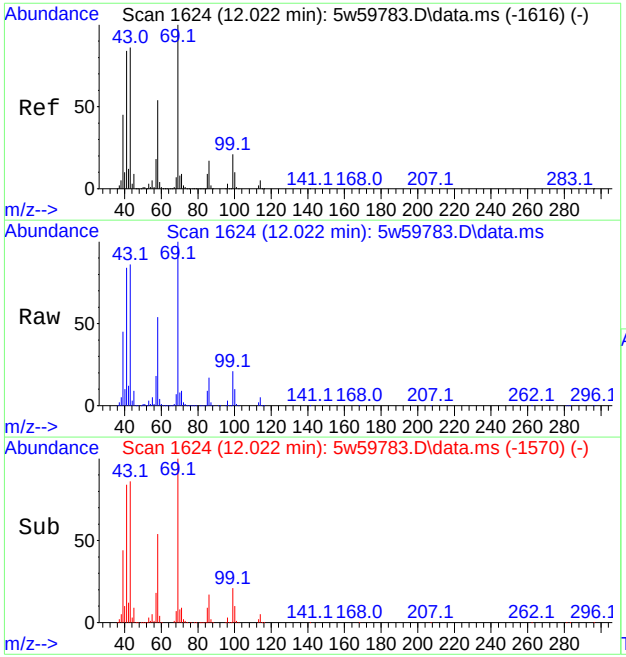


#71
2-HEXANONE
Concen: 12.76 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 58 Resp: 708433

Ion	Ratio	Lower	Upper
58	100		
43	167.2	137.2	197.2
100	16.9	0.0	46.9

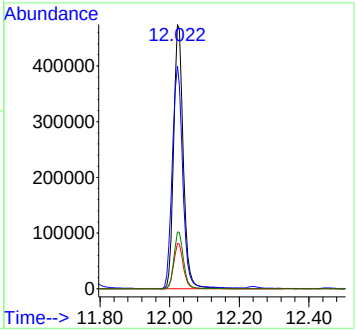


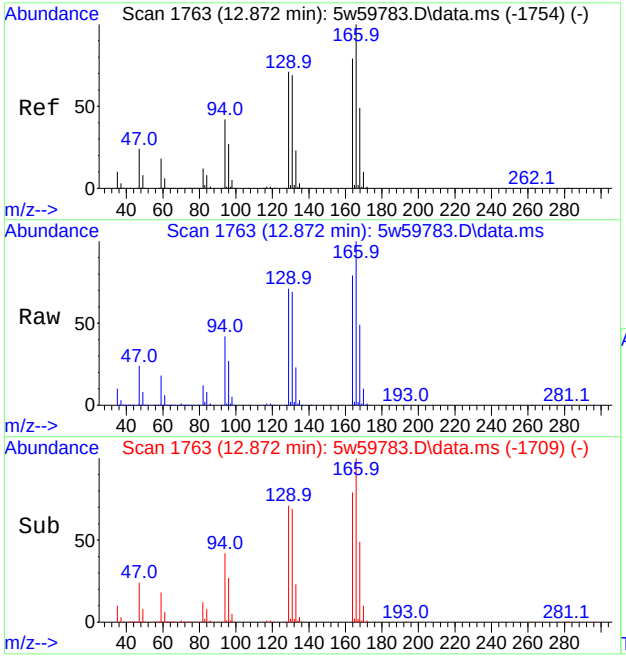


#72
ETHYL METHACRYLATE
Concen: 13.03 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 69 Resp: 915611

Ion	Ratio	Lower	Upper
69	100		
41	91.5	64.0	119.0
86	17.2	12.0	22.4
99	21.4	15.0	27.8

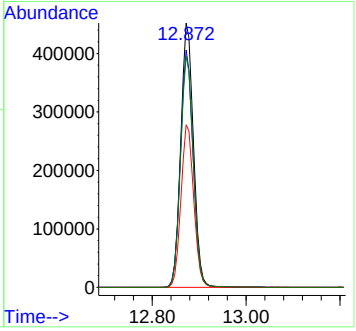


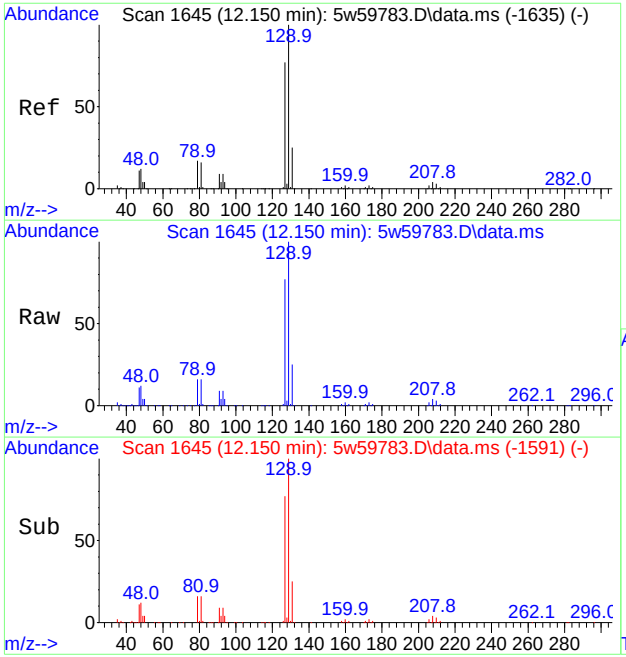


#73
TETRACHLOROETHYLENE
Concen: 10.39 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:164 Resp: 851797

Ion	Ratio	Lower	Upper
164	100		
129	89.7	59.7	119.7
168	62.2	32.2	92.2
131	87.8	57.8	117.8

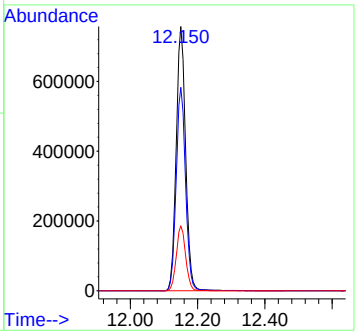


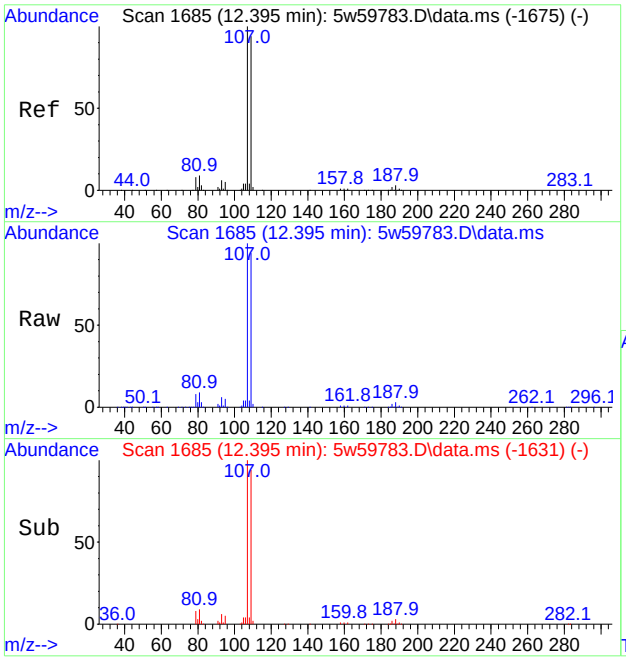


#74
DIBROMOCHLOROMETHANE
Concen: 10.66 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:129 Resp: 1470928

Ion	Ratio	Lower	Upper
129	100		
127	77.1	47.1	107.1
131	24.5	0.0	54.5

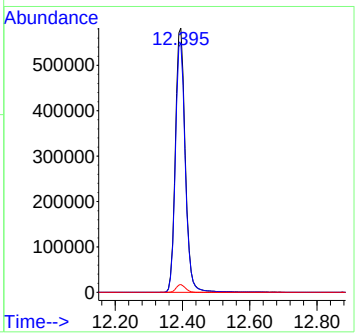


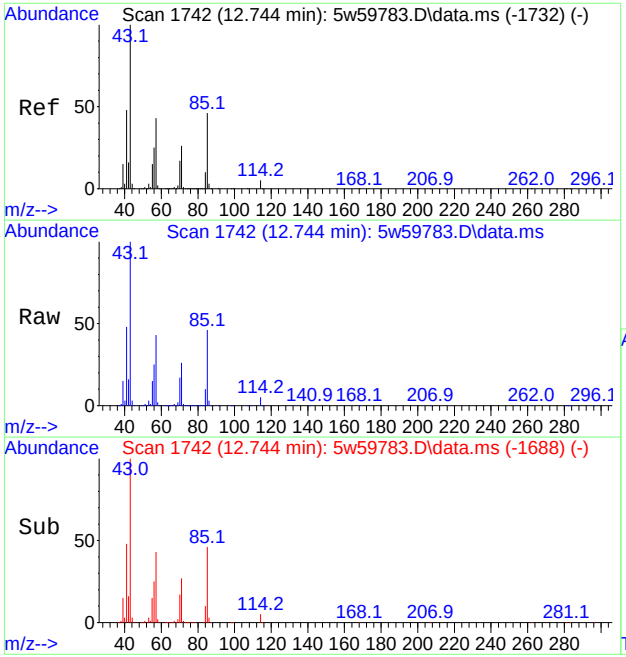


#75
1,2-DIBROMOETHANE
Concen: 11.73 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:107 Resp: 1182589

Ion	Ratio	Lower	Upper
107	100		
109	94.8	64.8	124.8
188	2.8	0.0	32.8

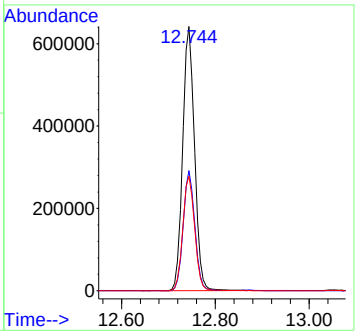


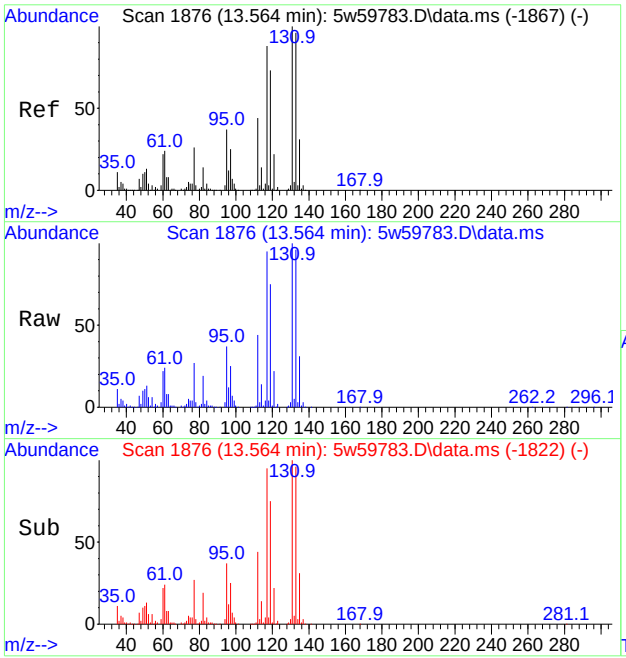


#76
OCTANE
Concen: 9.72 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1128893

Ion	Ratio	Lower	Upper
43	100		
85	44.6	14.6	74.6
57	43.7	13.7	73.7

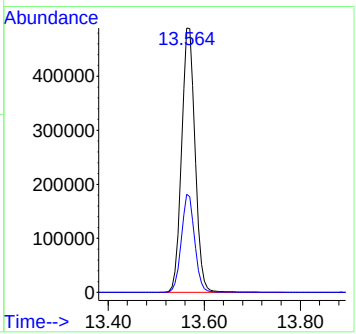


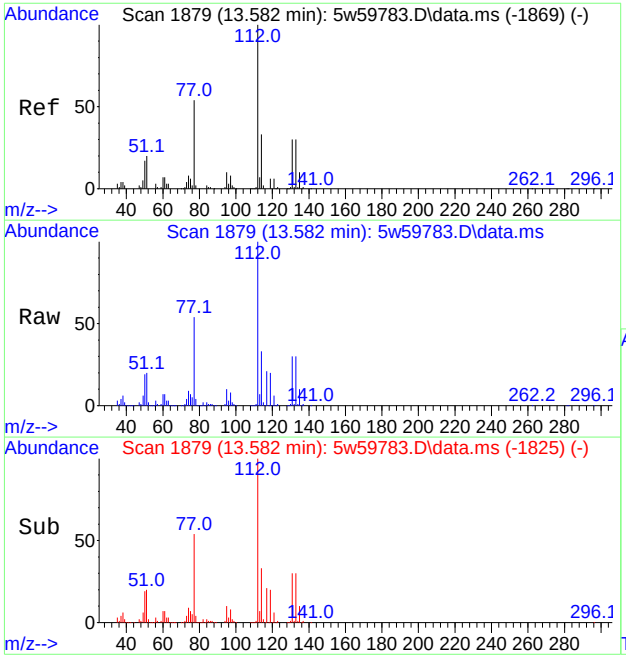


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.52 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:131 Resp: 951903

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

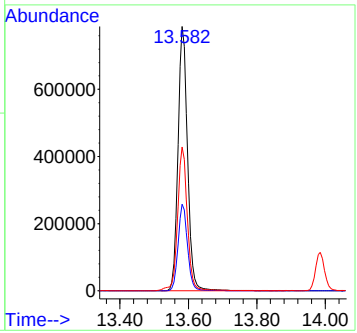


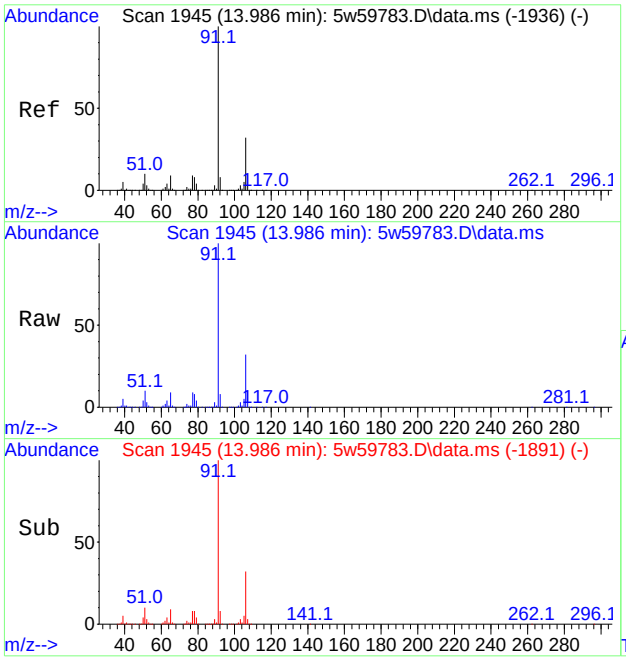


#78
CHLOROBENZENE
Concen: 10.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:112 Resp: 1532486

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.4	25.4	85.4

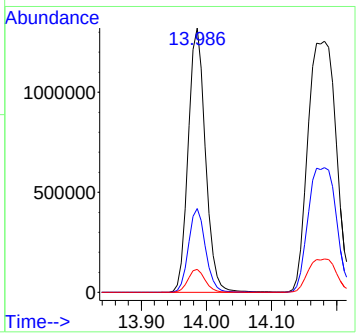


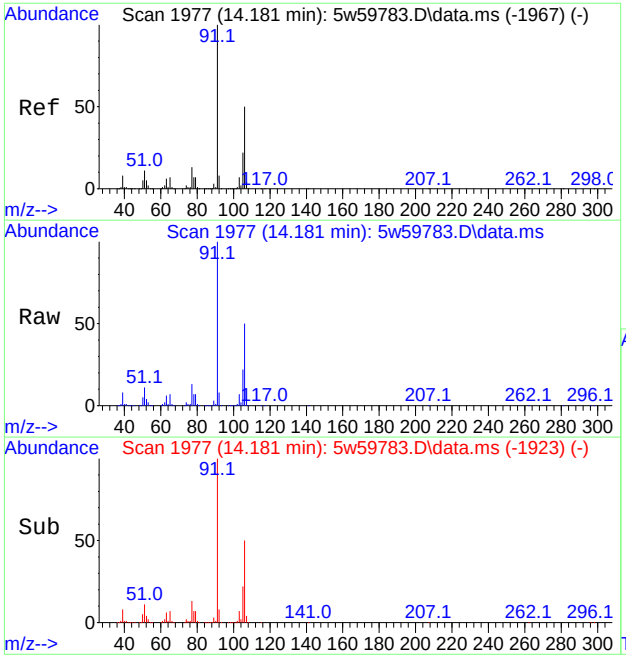


#79
ETHYLBENZENE
Concen: 11.38 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2426187

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.3	61.3
77	8.6	0.0	38.6

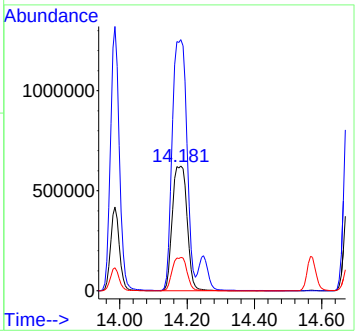


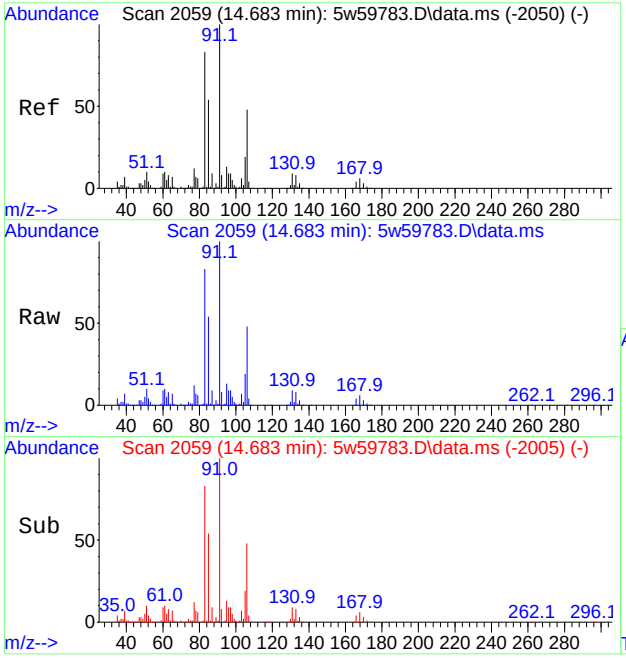


#80
m,p-XYLENE
Concen: 23.39 PPBV
RT: 14.181 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 1894377

Ion	Ratio	Lower	Upper
106	100		
91	201.0	171.0	231.0
77	26.7	0.0	56.7

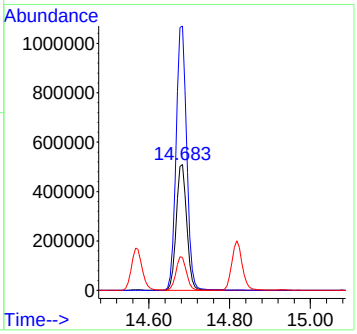


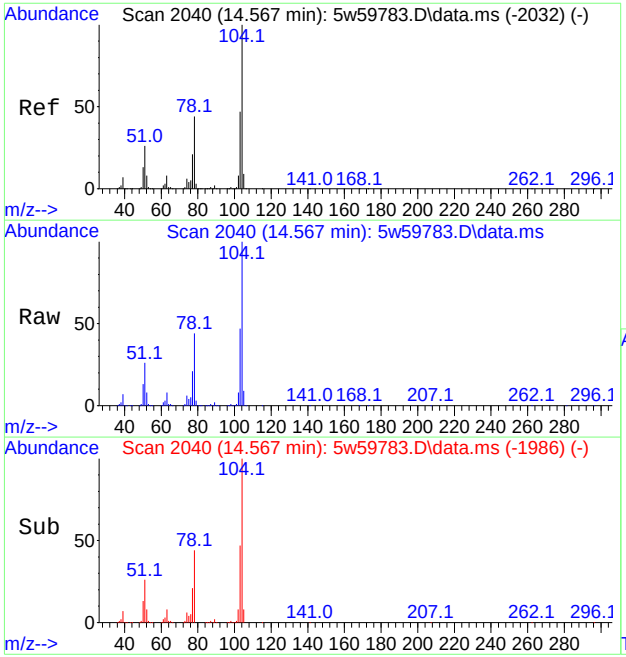


#81
o-XYLENE
Concen: 12.40 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:106 Resp: 921132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	181.6	241.6
77	26.6	0.0	56.6

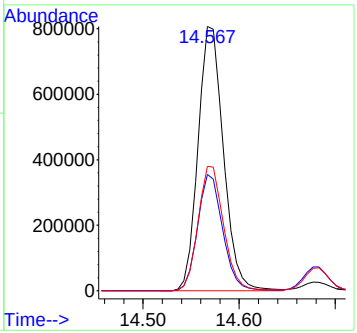


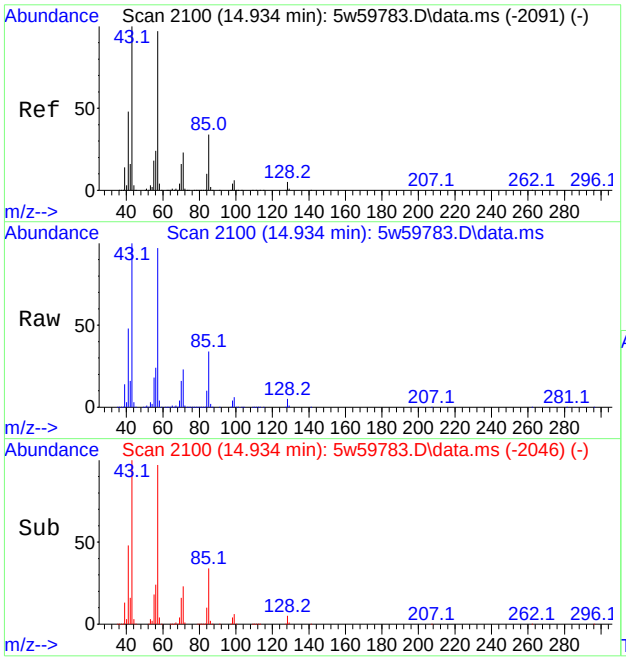


#82
STYRENE
Concen: 13.06 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:104 Resp: 1485661

Ion	Ratio	Lower	Upper
104	100		
78	43.3	13.3	73.3
103	47.2	17.2	77.2

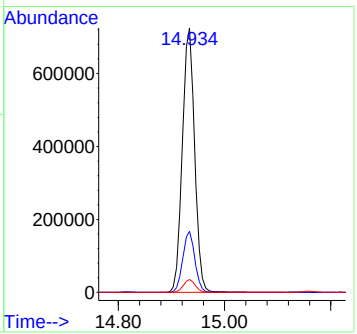


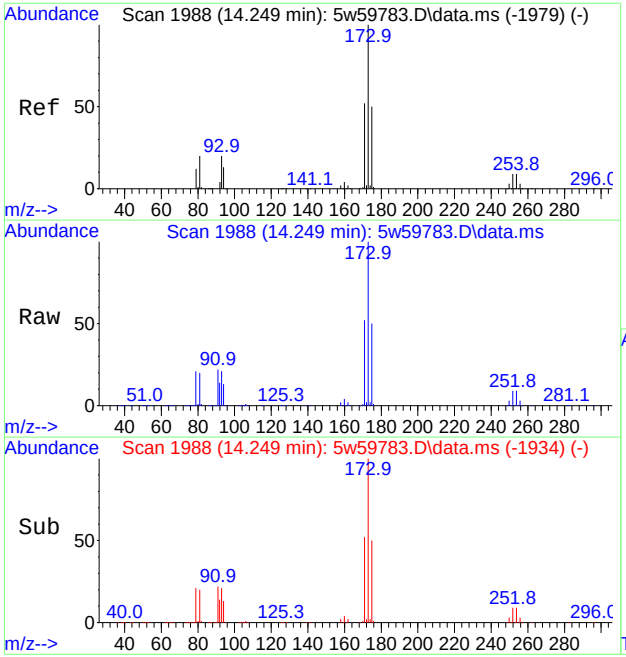


#83
NONANE
Concen: 10.14 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 43 Resp: 1167938

Ion	Ratio	Lower	Upper
43	100		
71	22.7	0.0	52.7
128	4.7	0.0	34.7

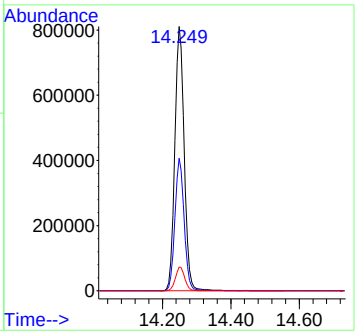


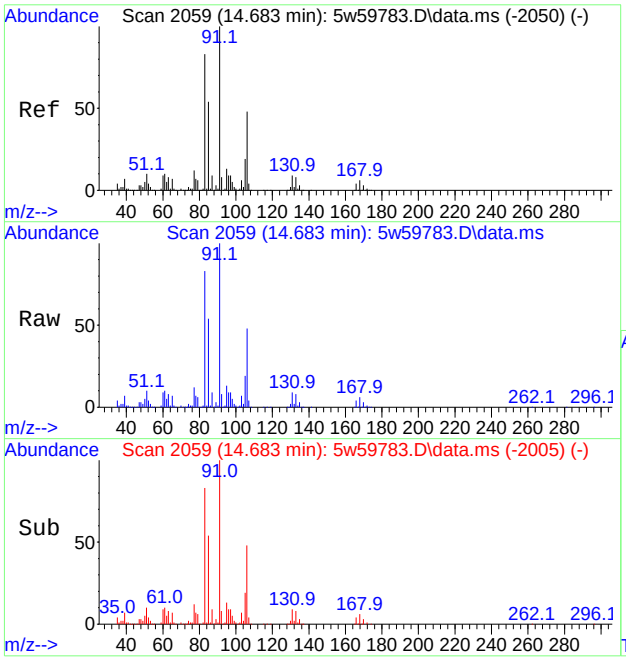


#84
BROMOFORM
Concen: 10.92 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:173 Resp: 1553327

Ion	Ratio	Lower	Upper
173	100		
175	49.6	19.6	79.6
254	9.0	0.0	39.0

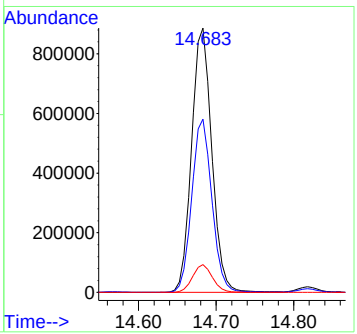


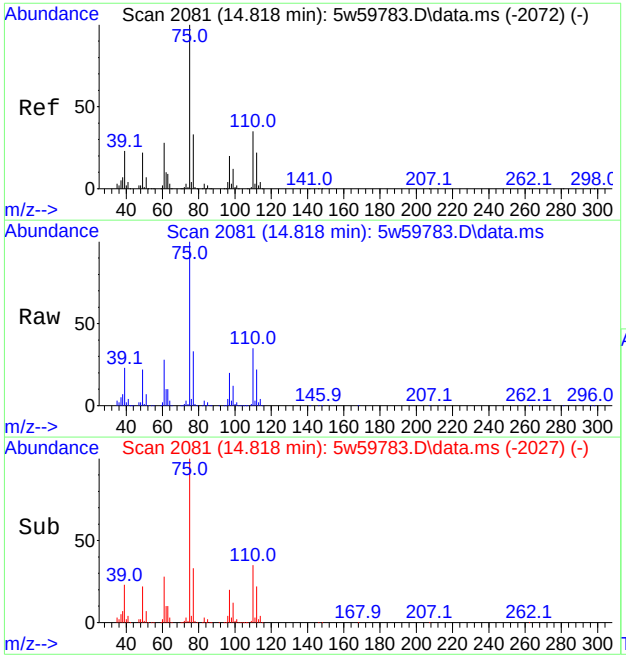


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.27 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 83 Resp: 1606320

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.2	95.2
131	10.3	0.0	40.3

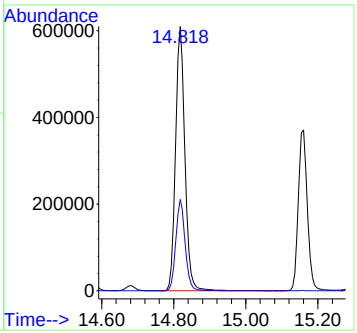


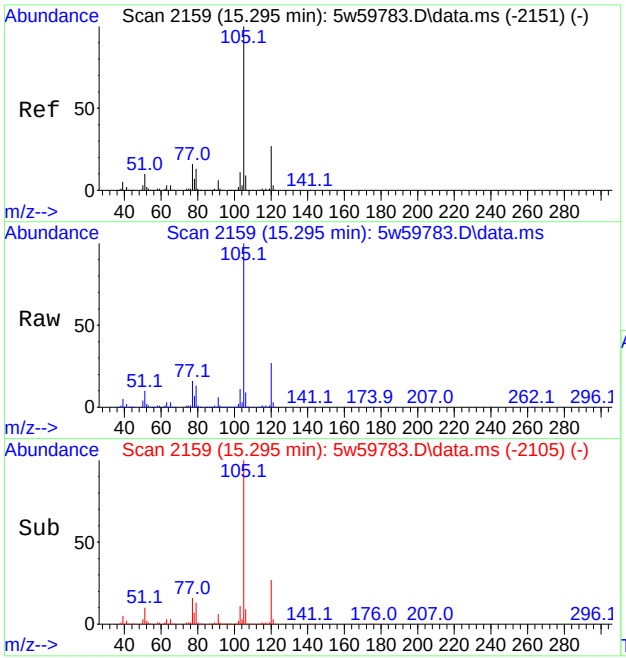


#87
1,2,3-TRICHLOROPROPANE
Concen: 9.96 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 75 Resp: 1108756

Ion	Ratio	Lower	Upper
75	100		
110	34.4	4.4	64.4

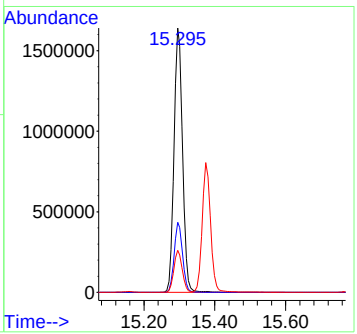


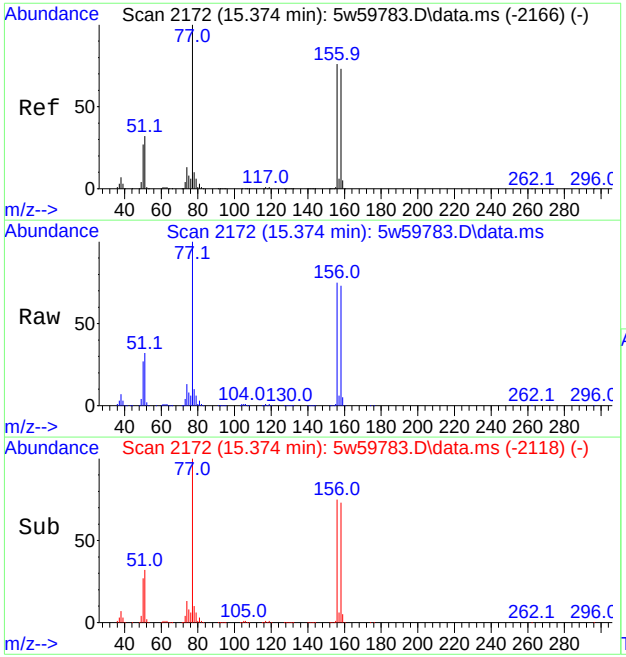


#88
ISOPROPYLBENZENE
Concen: 11.04 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2737713

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

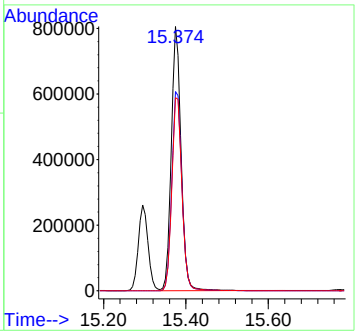


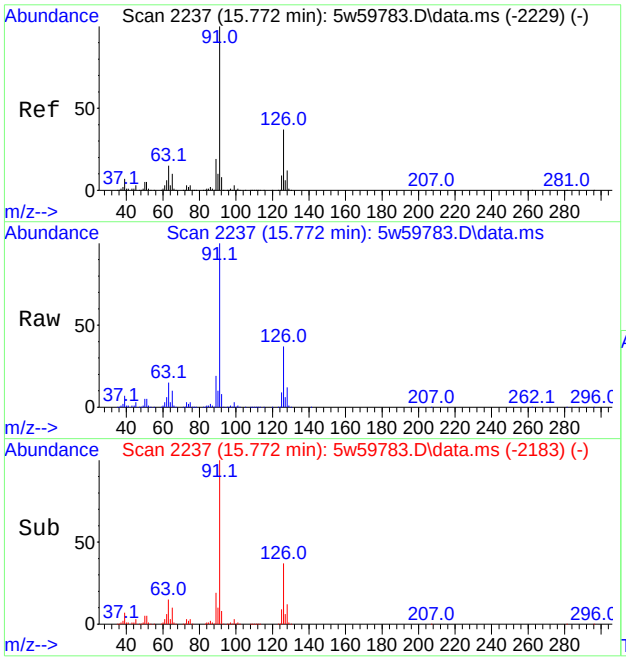


#89
BROMOBENZENE
Concen: 10.19 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 77 Resp: 1323542

Ion	Ratio	Lower	Upper
77	100		
156	78.4	54.9	101.9
158	76.4	53.5	99.3

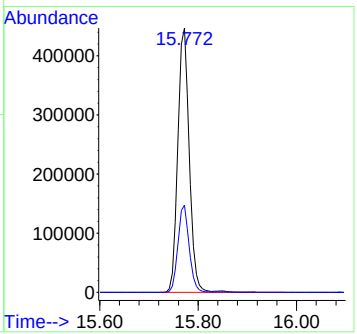


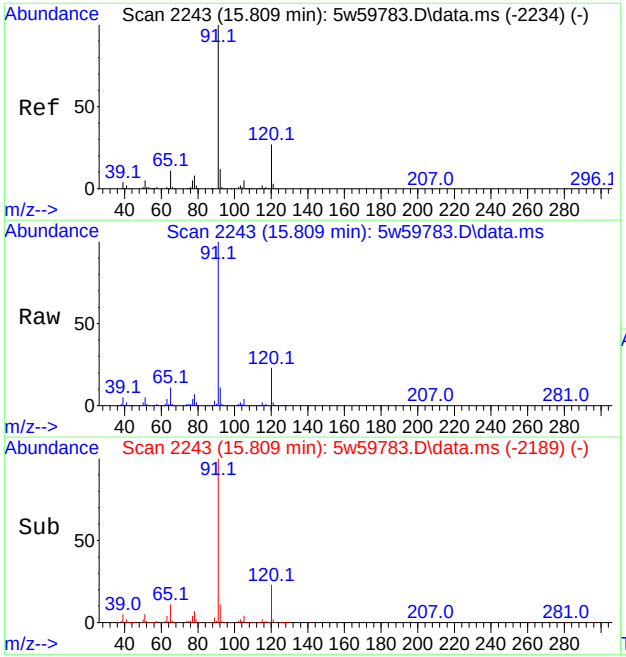


#90
2-CHLOROTOLUENE
Concen: 10.93 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:126 Resp: 723050

Ion	Ratio	Lower	Upper
126	100		
128	32.7	2.7	62.7

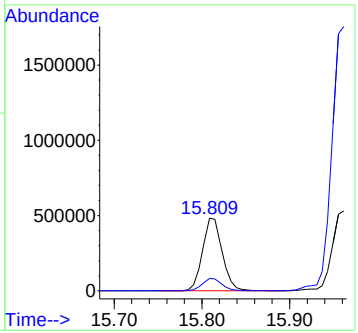


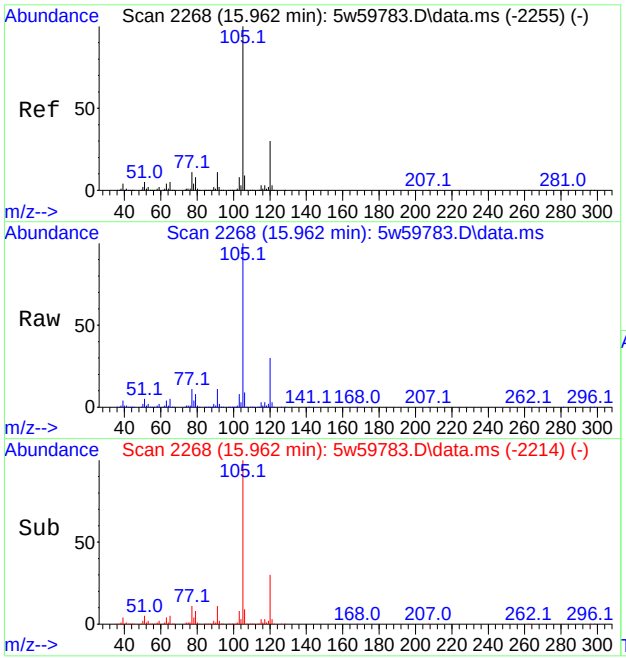


#91
n-PROPYLBENZENE
Concen: 11.44 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:120 Resp: 754817

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

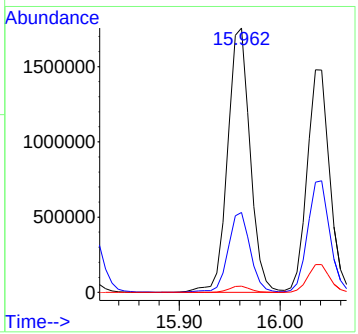


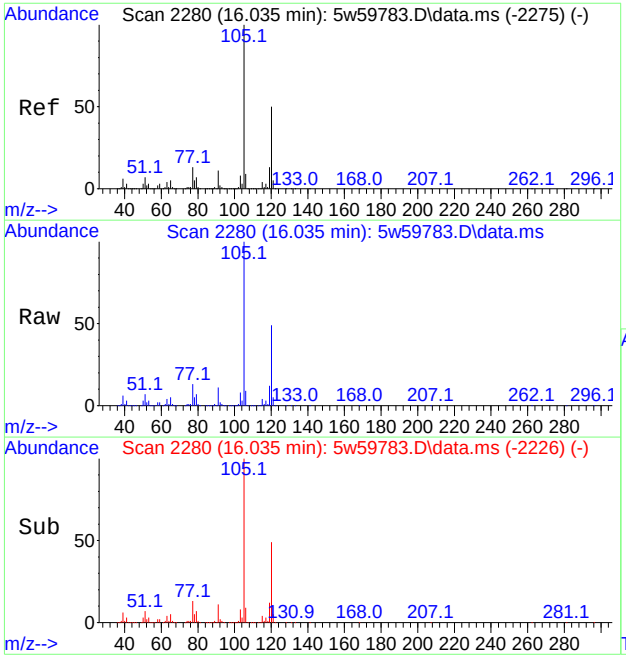


#92
4-ETHYLTOLUENE
Concen: 12.20 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2719805

Ion	Ratio	Lower	Upper
105	100		
120	29.9	0.0	59.9
119	2.3	0.0	32.3

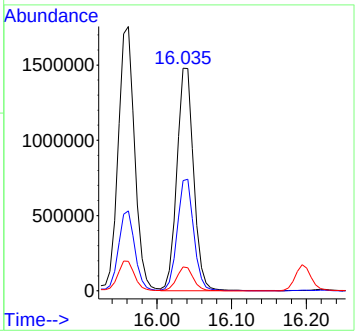


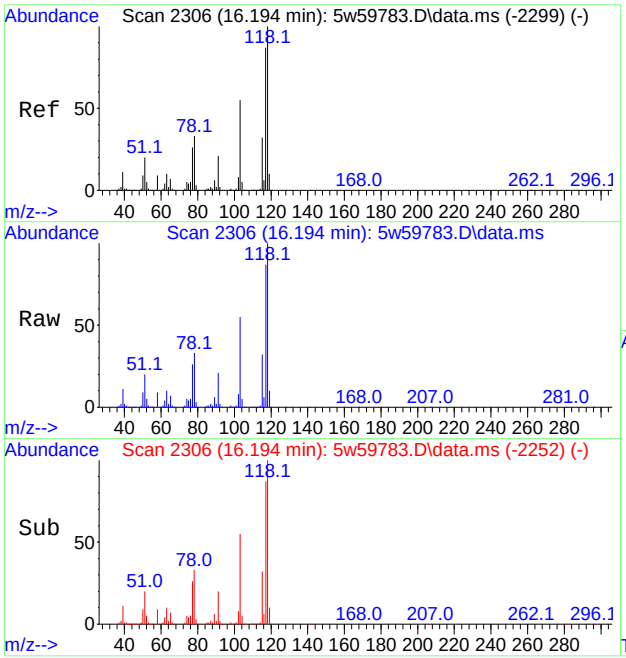


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.13 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2300675

Ion	Ratio	Lower	Upper
105	100		
120	49.4	19.4	79.4
91	10.8	0.0	40.7

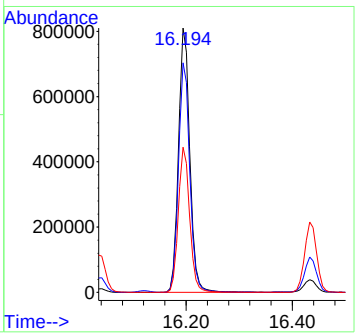


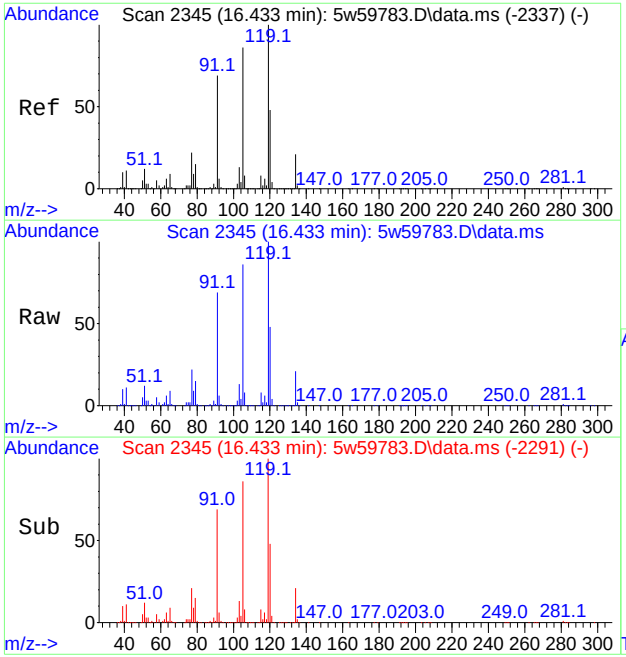


#94
ALPHA-METHYLSTYRENE
Concen: 12.09 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:118 Resp: 1195904

Ion	Ratio	Lower	Upper
118	100		
117	87.0	60.9	113.1
103	55.2	38.6	71.8

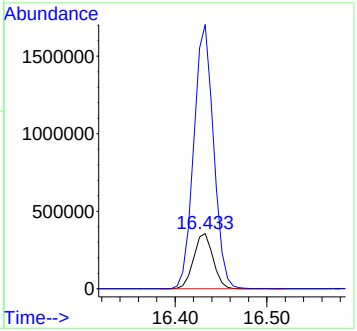


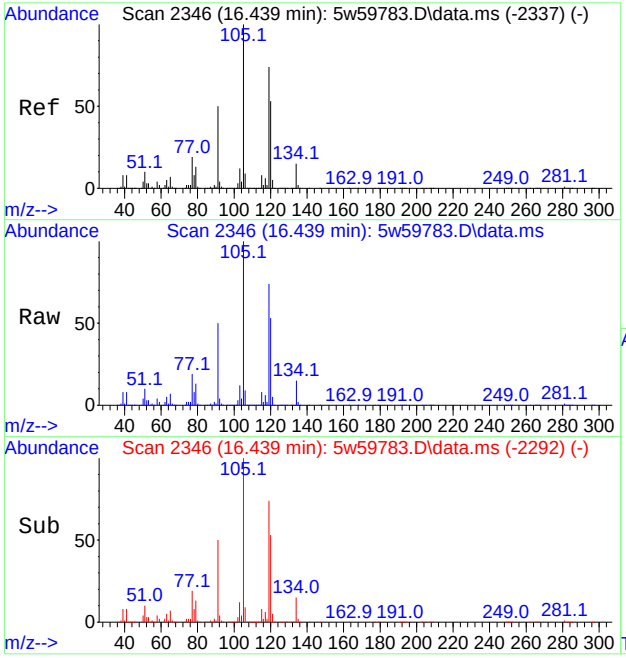


#95
tert-BUTYLBENZENE
Concen: 12.22 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 523380

Ion	Ratio	Lower	Upper
134	100		
119	489.3	459.3	519.3

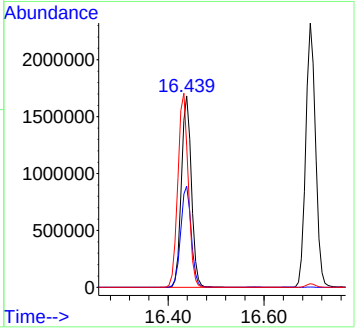


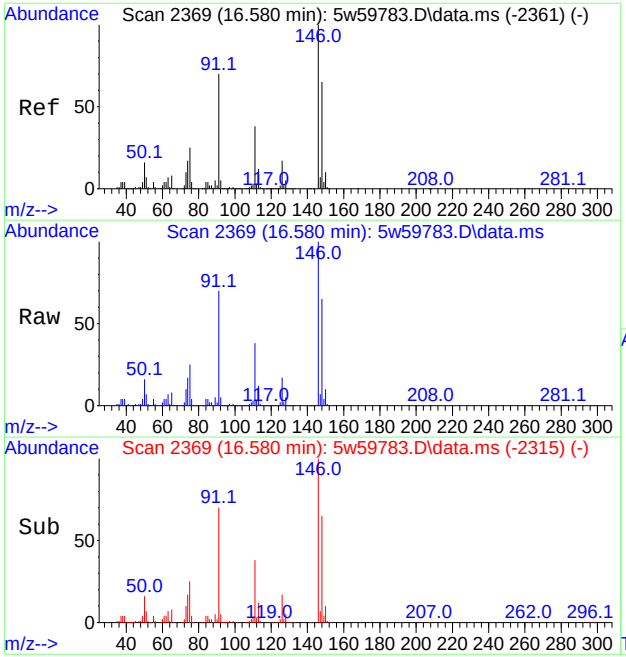


#96
1,2,4-TRIMETHYLBENZENE
Concen: 12.17 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2423323

Ion	Ratio	Lower	Upper
105	100		
120	55.7	25.7	85.7
119	105.7	75.7	135.7

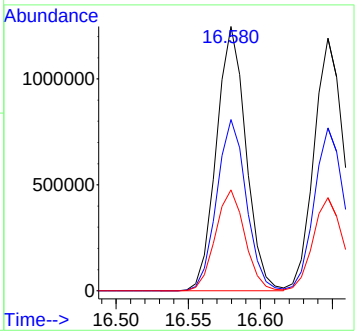


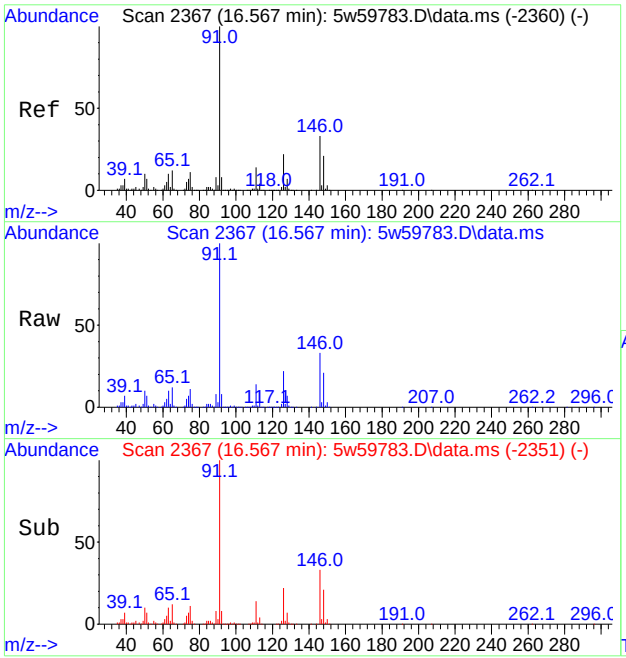


#97
m-DICHLOROBENZENE
Concen: 11.15 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1782947

Ion	Ratio	Lower	Upper
146	100		
148	64.8	34.8	94.8
111	38.2	8.2	68.2

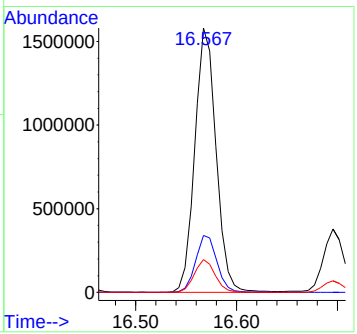


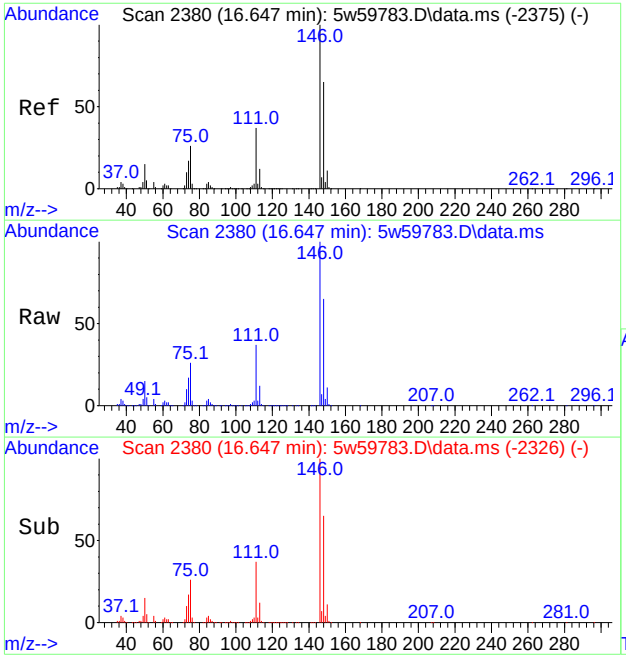


#98
BENZYL CHLORIDE
Concen: 12.73 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion: 91 Resp: 2316167

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.2	0.0	42.2

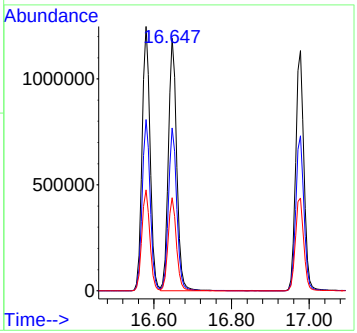


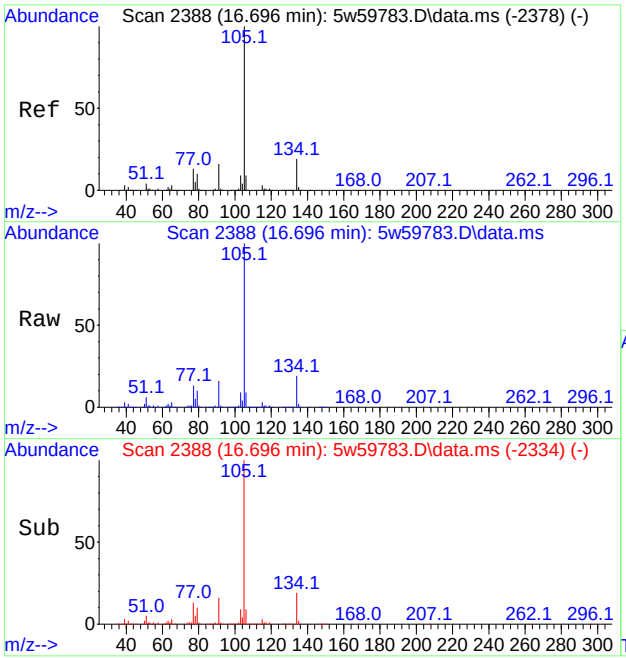


#99
p-DICHLOROBENZENE
Concen: 10.72 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1775311

Ion	Ratio	Lower	Upper
146	100		
148	64.6	34.6	94.6
111	36.7	6.7	66.7

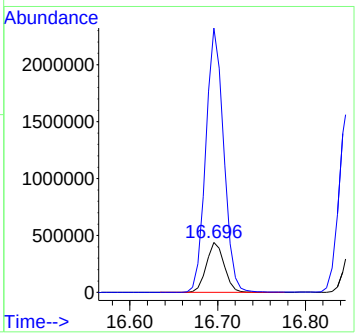


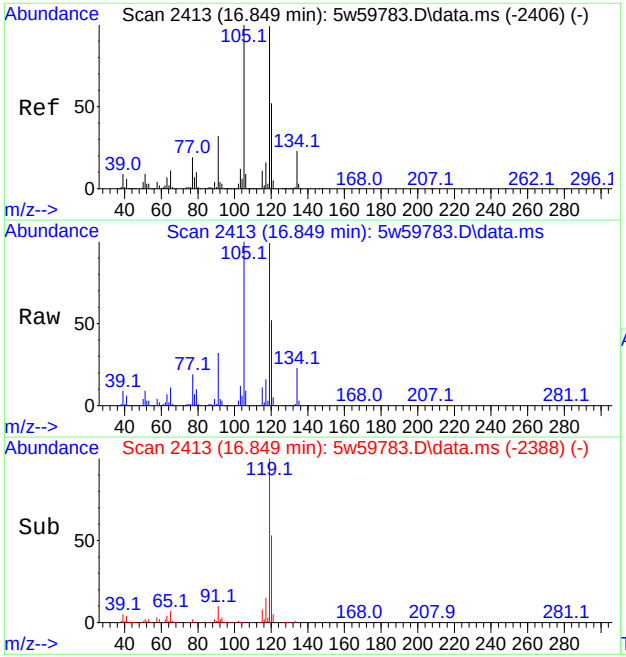


#100
sec-BUTYLBENZENE
Concen: 11.27 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 618616

Ion	Ratio	Lower	Upper
134	100		
105	532.5	502.5	562.5

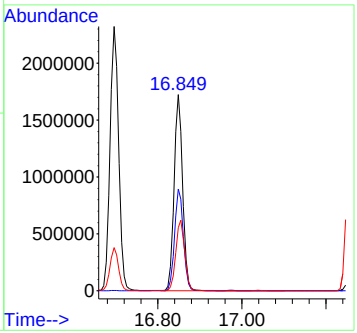


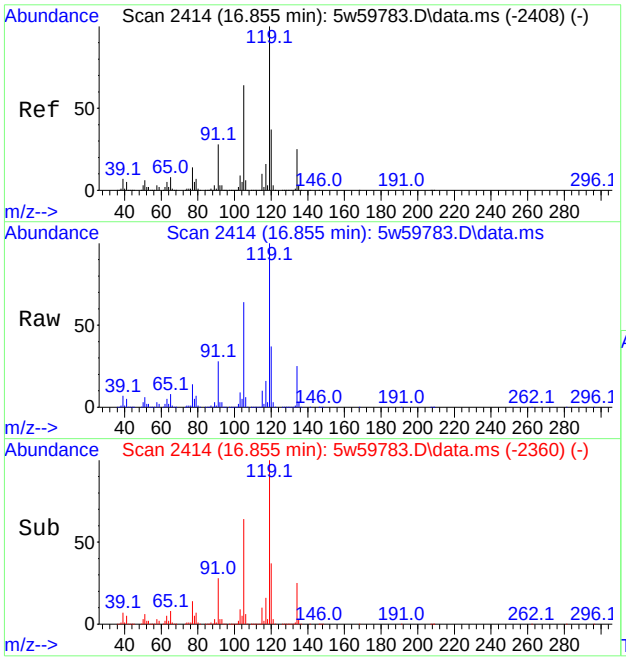


#101
1,2,3-TRIMETHYLBENZENE
Concen: 11.39 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:105 Resp: 2427524

Ion	Ratio	Lower	Upper
105	100		
120	53.5	23.5	83.5
91	37.4	7.4	67.4

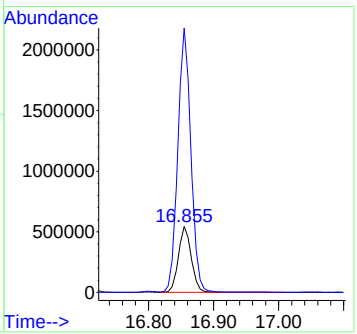


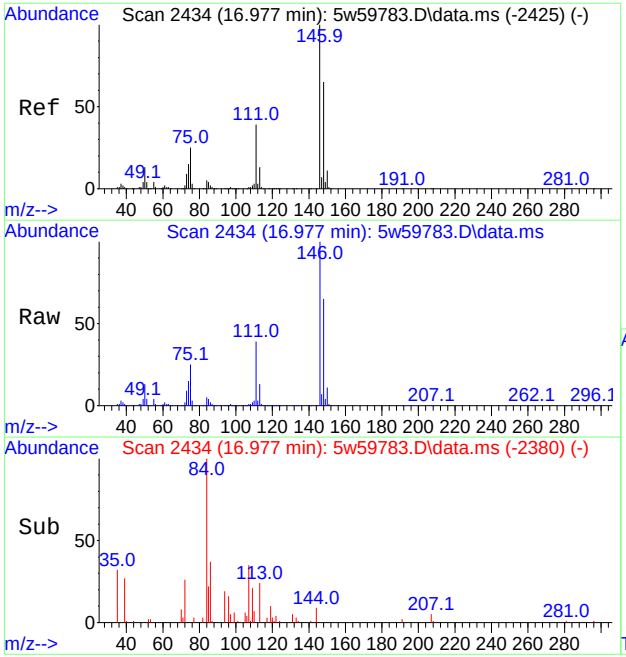


#102
p-ISOPROPYLTOLUENE
Concen: 11.87 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 746734

Ion	Ratio	Lower	Upper
134	100		
119	407.7	377.7	437.7

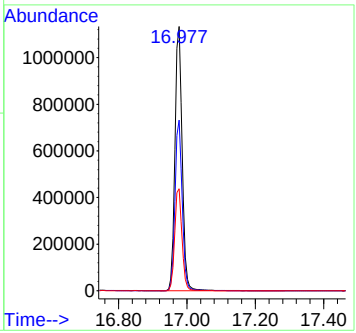


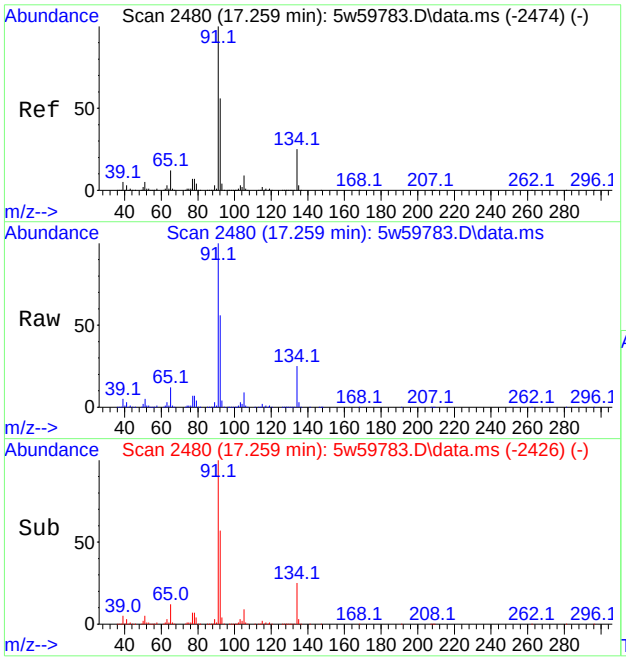


#103
o-DICHLOROBENZENE
Concen: 10.31 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:146 Resp: 1665215

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.3	94.3
111	39.2	9.2	69.2

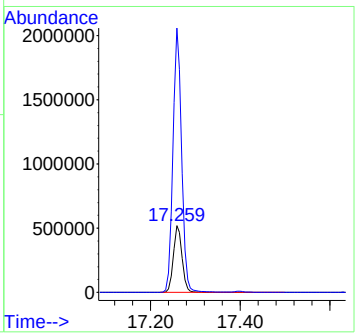


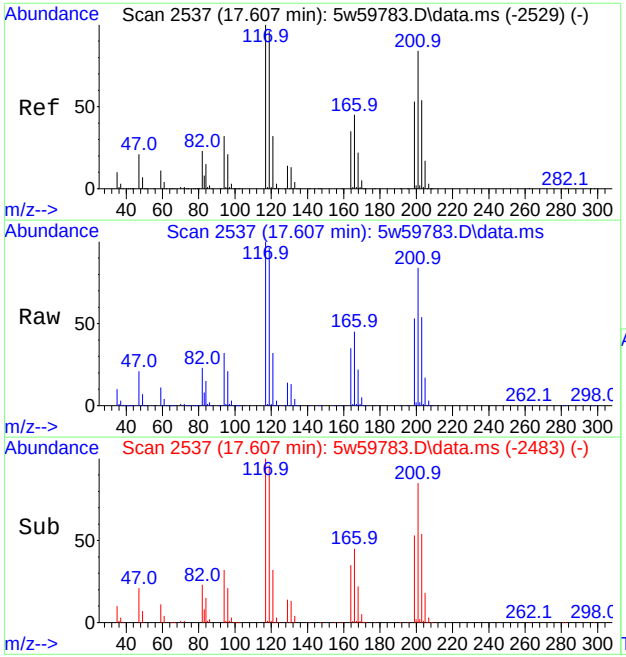


#104
n-BUTYLBENZENE
Concen: 12.21 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:134 Resp: 703045

Ion	Ratio	Lower	Upper
134	100		
91	393.1	363.1	423.1

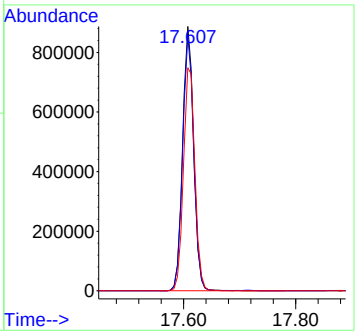


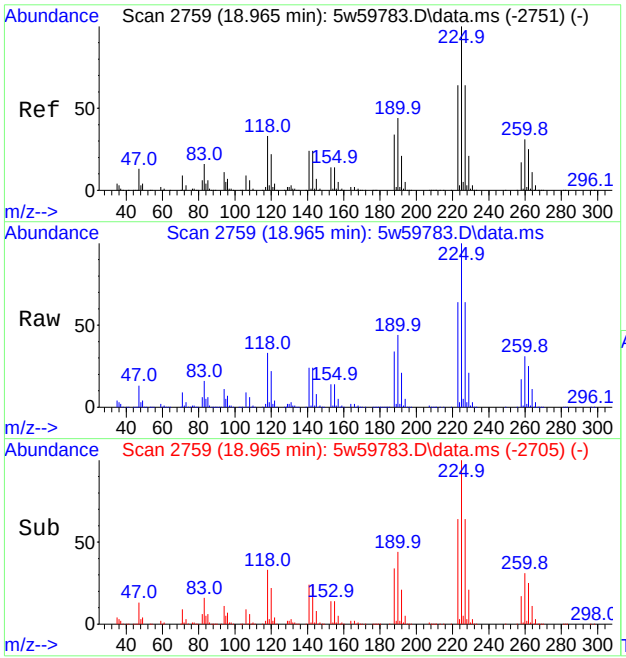


#105
HEXACHLOROETHANE
Concen: 11.22 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:117 Resp: 1210974

Ion	Ratio	Lower	Upper
117	100		
119	96.0	67.2	124.8
201	87.3	61.1	113.5

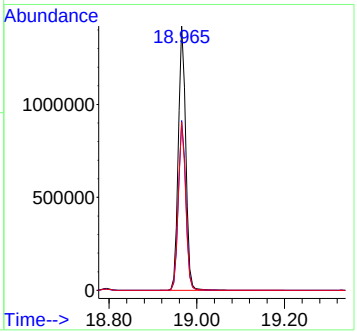


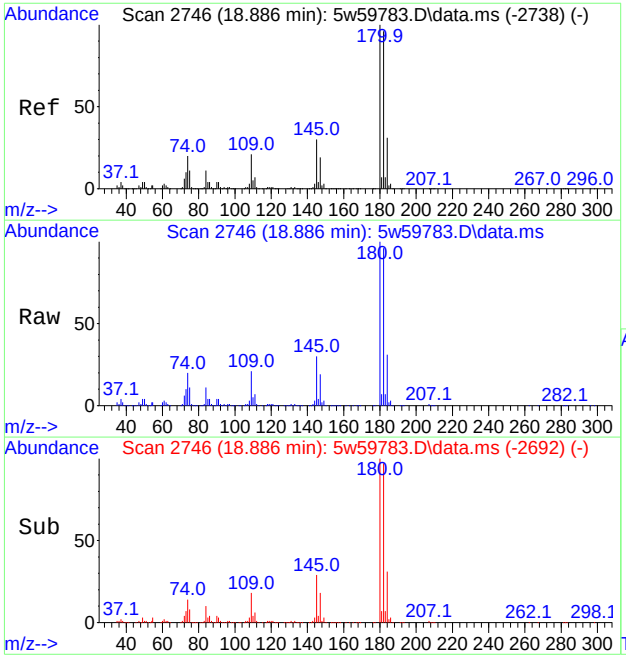


#106
HEXACHLOROBUTADIENE
Concen: 9.84 PPBV
RT: 18.965 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:225 Resp: 1667734

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.3	33.3	93.3

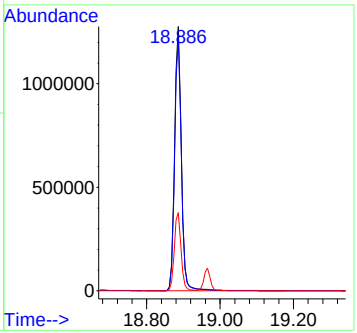


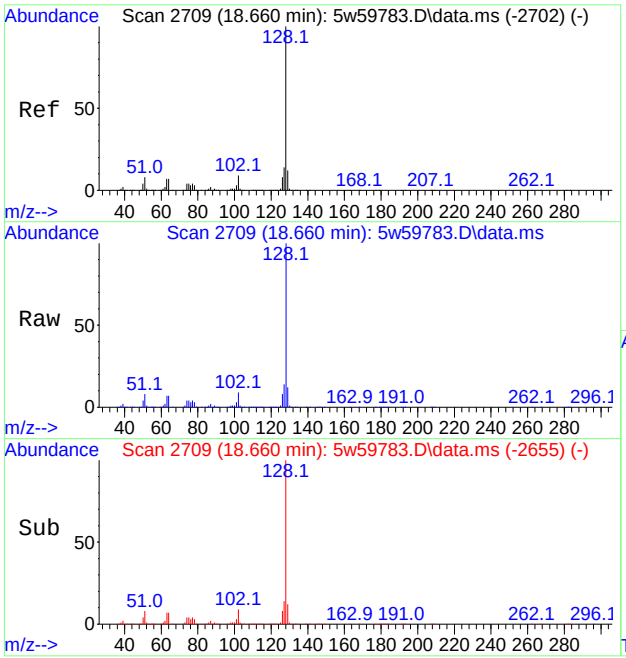


#107
1,2,4-TRICHLOROBENZENE
Concen: 14.54 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:180 Resp: 1638870

Ion	Ratio	Lower	Upper
180	100		
182	95.4	65.4	125.4
145	29.4	0.0	59.4

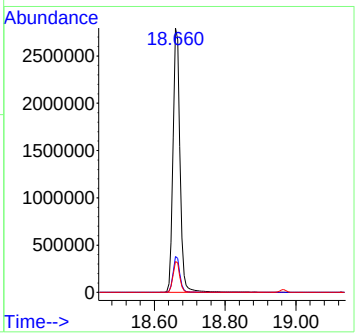


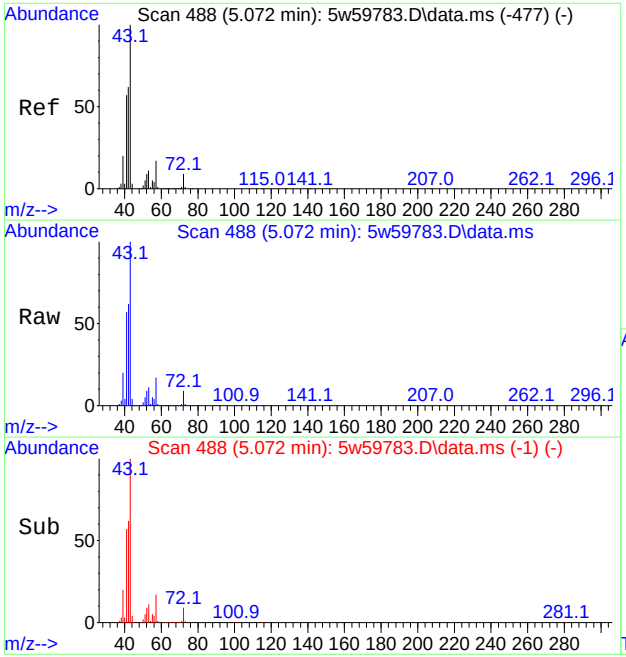


#108
NAPHTHALENE
Concen: 14.35 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:128 Resp: 3829842

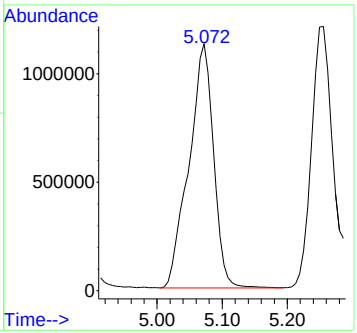
Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	43.3
129	11.4	0.0	41.5





#110
TVHC as equiv Pentane
Concen: 8.08 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59783.D
Acq: 7 Nov 2025 7:33 am

Tgt Ion:TIC Resp: 2959189



Manual Integration Approval Summary

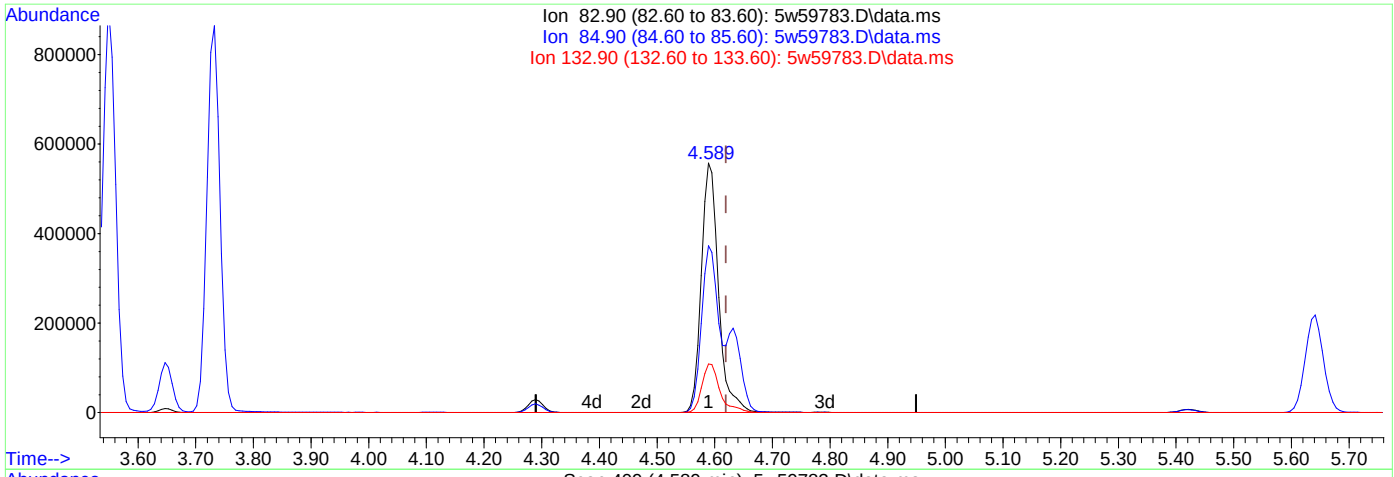
Sample Number: V5W2292-ICC2292 **Method:** TO-15
Lab FileID: 5W59783.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 07:33 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

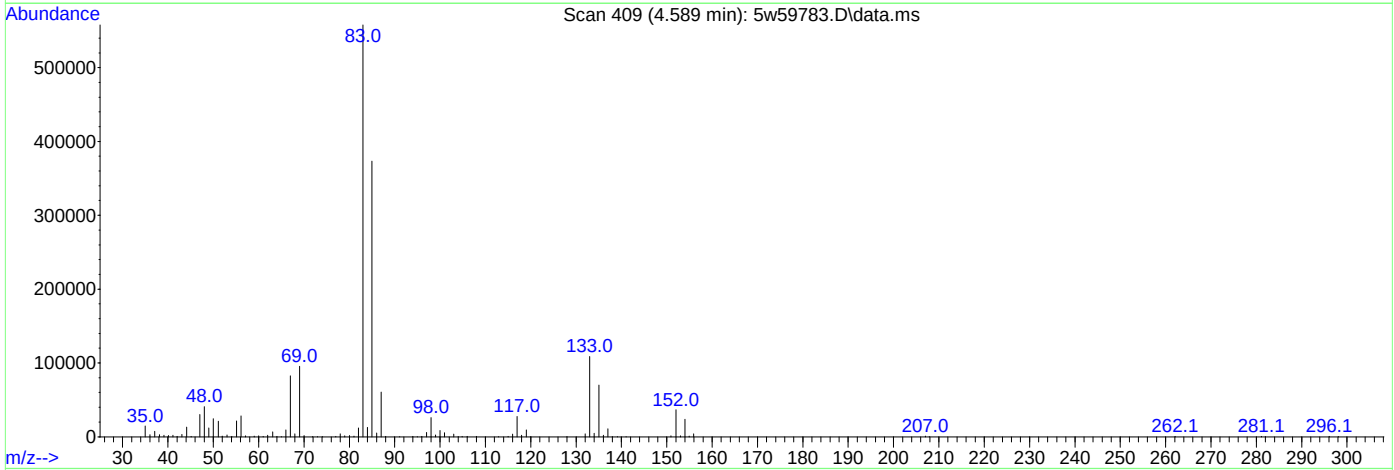
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration





TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (-0.031) 9.91PPBV

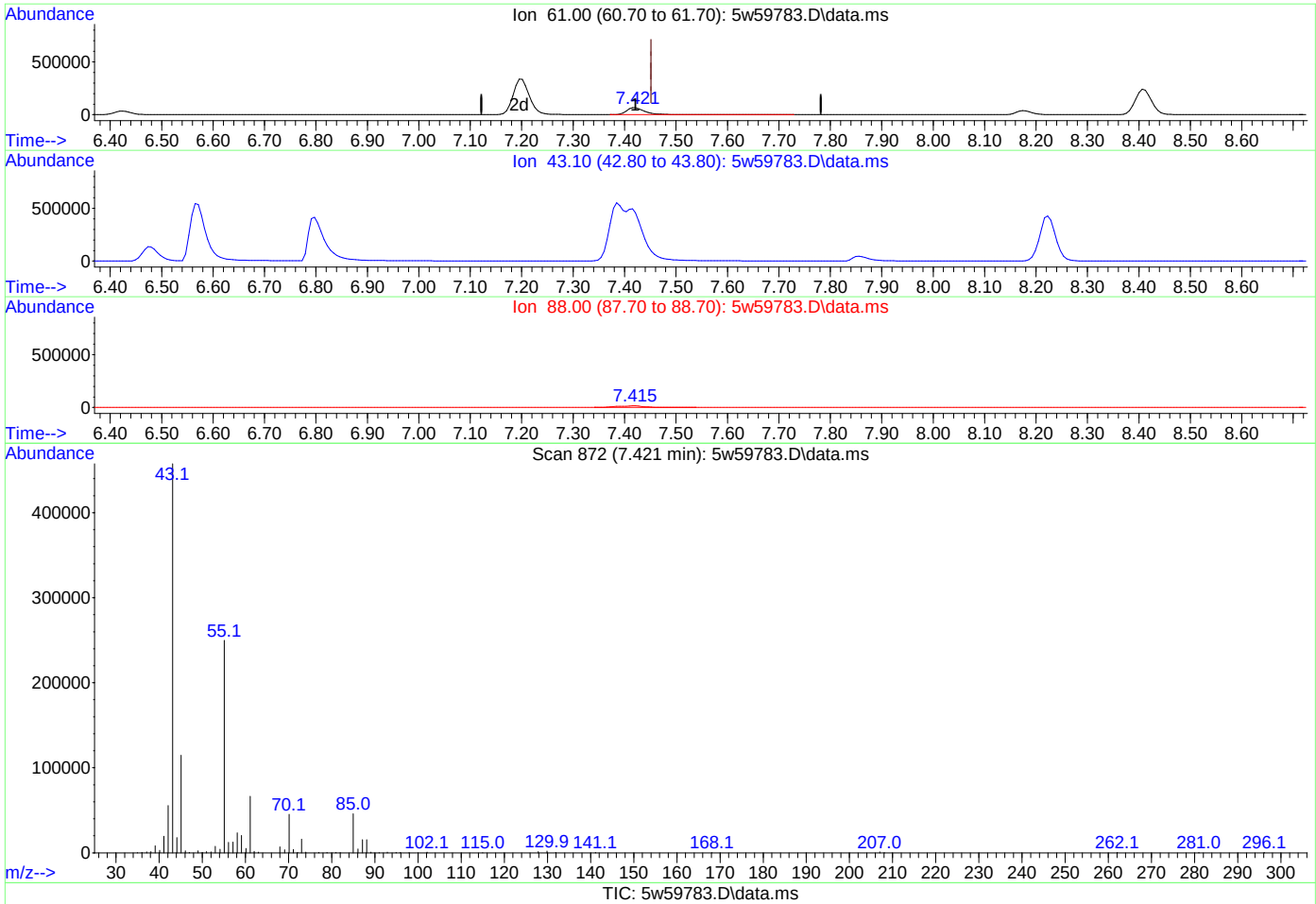
response 1157483

Ion	Exp%	Act%
82.90	100	100
84.90	94.90	94.40
132.90	27.20	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (-0.031) 10.63PPBV

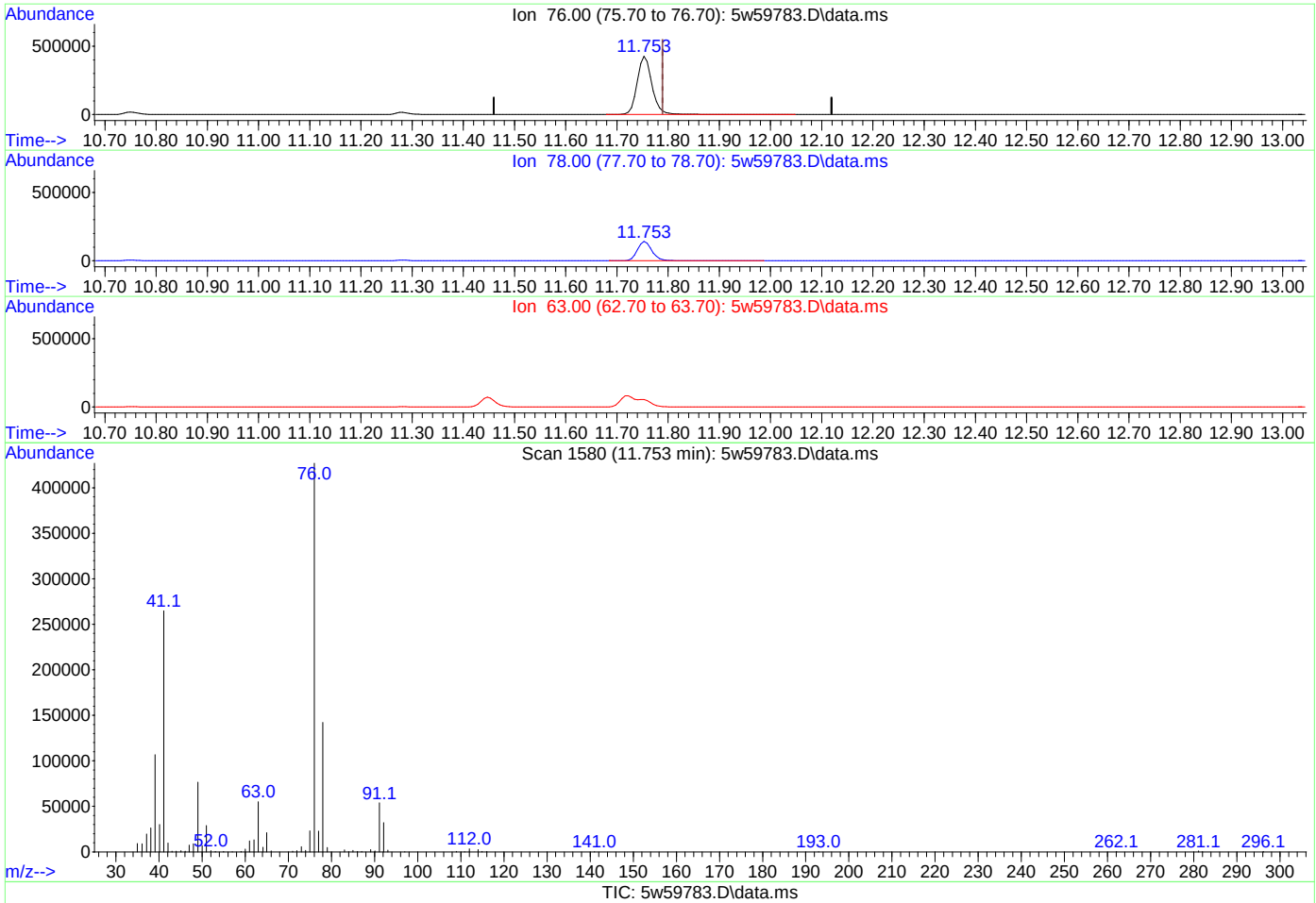
response 169787

Ion	Exp%	Act%
61.00	100	100
43.10	0.00	0.00
88.00	34.00	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:12:44 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Oct 13 14:42:35 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (-0.037) 10.74PPBV

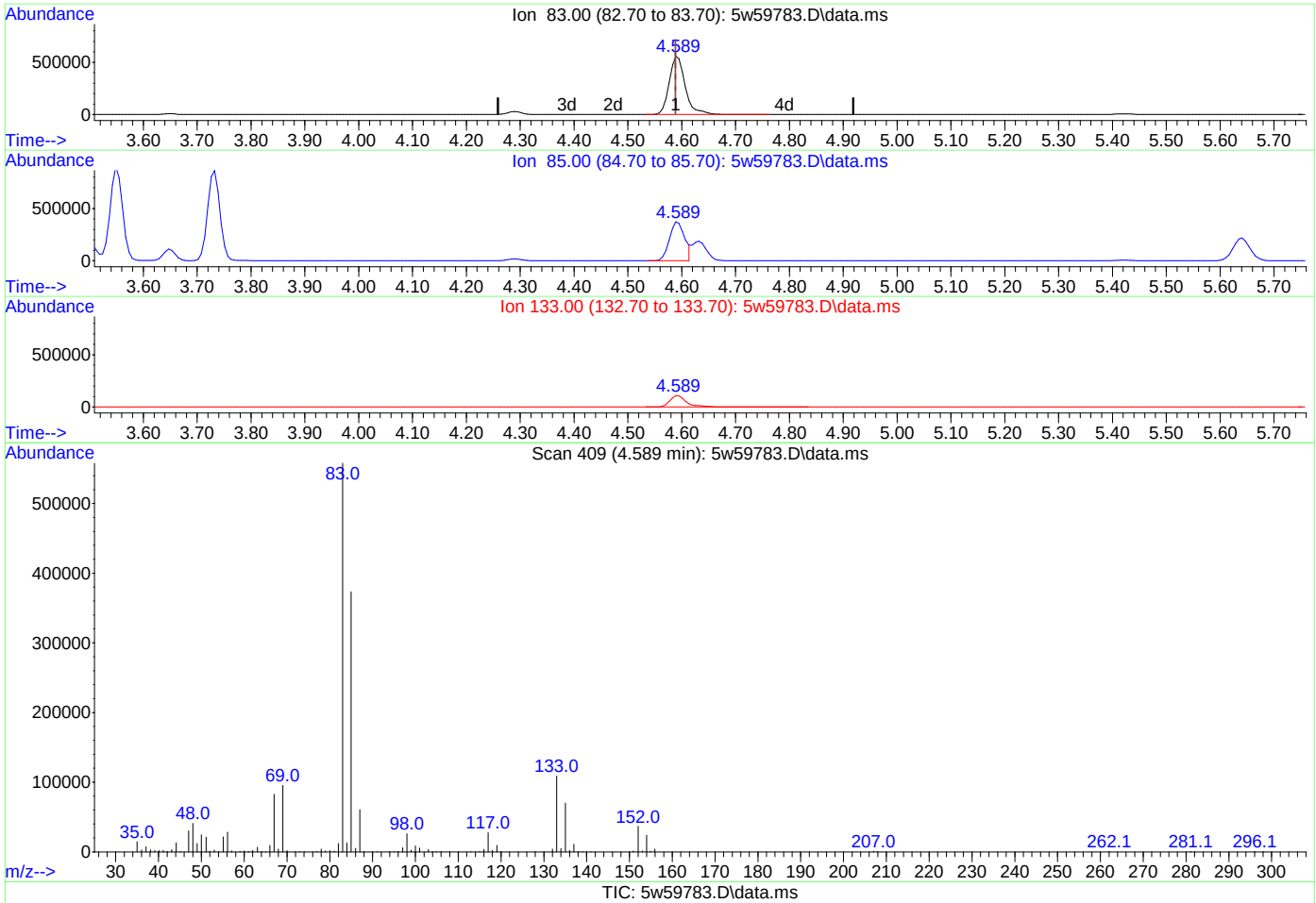
response 865913

Ion	Exp%	Act%
76.00	100	100
78.00	32.00	33.09
63.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(19) FREON 123

4.589min (0.000) 9.93PPBV m

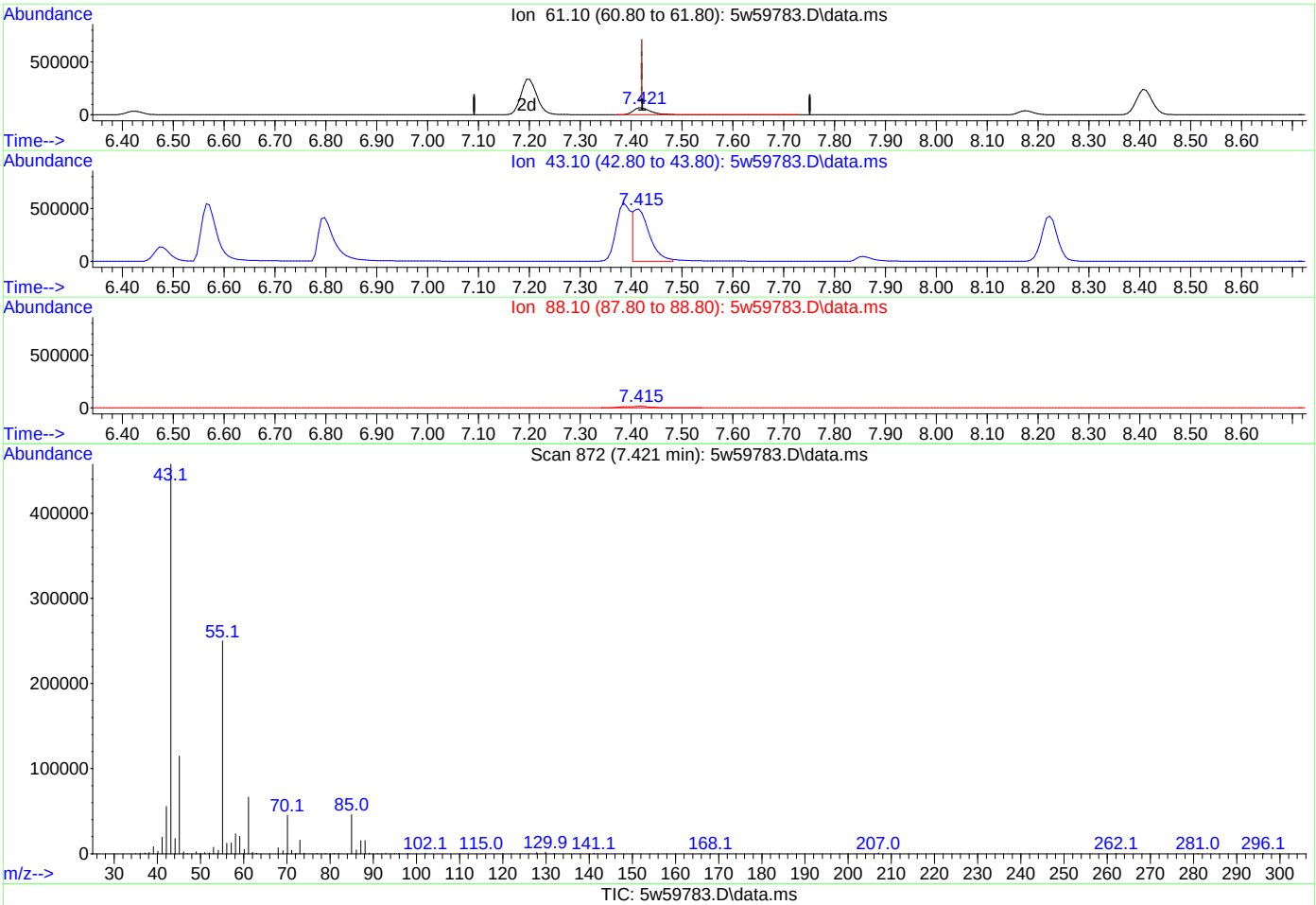
response 1157483

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.96
133.00	20.70	20.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(44) ETHYL ACETATE

7.421min (0.000) 10.80PPBV m

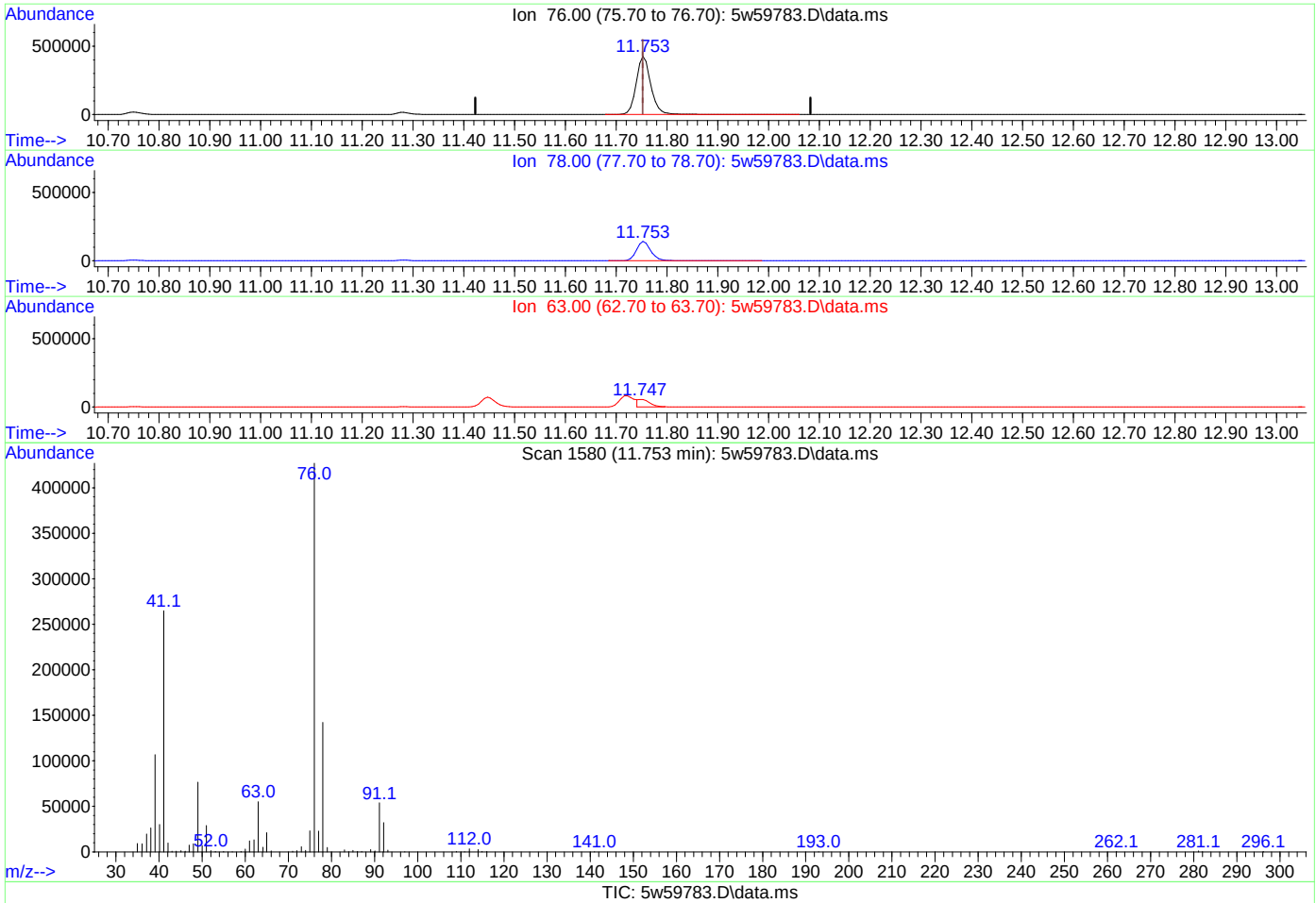
response 169787

Ion	Exp%	Act%
61.10	100	100
43.10	611.30	590.54
88.10	34.50	34.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59783.D
Acq On : 7 Nov 2025 7:33 am
Operator : benk
Sample : icc2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:31:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:31:23 2025
Response via : Initial Calibration



TIC: 5w59783.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (0.000) 10.80PPBV m

response 866163

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.08
63.00	10.30	10.05
0.00	0.00	0.00

5W59784.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	450013	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	1932450	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1113631	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	450746	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1356787	9.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
2) FREON 115	3.372	119	450963	7.75	PPBV	100
3) FREON 152A	3.445	65	629601	18.20	PPBV	98
4) CHLORODIFLUOROMETHANE	3.476	67	306106	19.32	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	1520054	20.38	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.555	85	2793626	18.80	PPBV	99
7) PROPYLENE	3.500	41	679227	17.76	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.653	65	2117806	15.73	PPBV	99
9) FREON 114	3.733	85	2612576	20.44	PPBV	99
10) CHLOROMETHANE	3.665	52	274402	17.35	PPBV	100
11) VINYL CHLORIDE	3.818	62	907868	18.27	PPBV	99
12) 1,3-BUTADIENE	3.916	54	526623m	15.76	PPBV	
13) n-BUTANE	3.947	43	848889	14.02	PPBV	99
14) BROMOMETHANE	4.106	94	947413	19.40	PPBV	100
15) CHLOROETHANE	4.228	64	401918	17.76	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1915216	16.60	PPBV	100
17) ACETONITRILE	4.479	41	467576	13.59	PPBV	99
18) ACROLEIN	4.571	56	282182	15.70	PPBV	95
19) FREON 123	4.595	83	2144663m	18.75	PPBV	
20) FREON 123A	4.632	117	1303591	18.34	PPBV	97
21) TRICHLOROFLUOROMETHANE	4.797	101	2321202	14.25	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	1635668	14.11	PPBV	99
23) ACETONE	4.669	58	334468	16.18	PPBV	99
24) PENTANE	5.072	42	880198	14.37	PPBV	99
25) IODOMETHANE	5.256	142	3031933	20.19	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	959349	17.96	PPBV	99
27) CARBON DISULFIDE	5.672	76	2608827	18.51	PPBV	99
28) ETHANOL	4.320	45	298730	13.05	PPBV	99
29) BROMOETHENE	4.485	106	957242	20.43	PPBV	100
30) ACRYLONITRILE	5.042	52	624246	17.51	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	836157	17.45	PPBV	98
32) 3-CHLOROPROPENE	5.525	76	430205	19.53	PPBV	96
33) FREON 113	5.641	151	1722837	18.38	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	990650	18.16	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.372	59	1868378	16.33	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	2584253	19.14	PPBV	99
37) TETRAHYDROFURAN	7.850	72	399188	22.19	PPBV	98
38) HEXANE	7.385	57	1526495	20.27	PPBV	96
39) VINYL ACETATE	6.571	86	179566	19.94	PPBV #	89
40) 1,1-DICHLOROETHANE	6.424	63	1823762	18.32	PPBV	100
41) METHYL ETHYL KETONE	6.791	72	430294	22.94	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.201	96	1068157	19.00	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	472029	23.11	PPBV	94
44) ETHYL ACETATE	7.415	61	340212m	22.04	PPBV	
45) METHYL ACRYLATE	7.409	55	1885856	21.07	PPBV	99
46) CHLOROFORM	7.483	83	2134176	18.57	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	1747860	19.75	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.413	97	2289683	18.23	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	2555242	18.43	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	1561332	19.15	PPBV		100
52)	BENZENE	8.853	78	2903342	22.68	PPBV		100
53)	CYCLOHEXANE	9.110	84	1139585	22.41	PPBV		99
54)	2,3-DIMETHYLPENTANE	9.355	71	573637	22.39	PPBV		100
55)	TRICHLOROETHYLENE	9.893	95	1474907	21.65	PPBV		99
56)	1,2-DICHLOROPROPANE	9.655	63	1173566	21.61	PPBV		100
57)	DIBROMOMETHANE	9.636	174	1578012	21.13	PPBV		99
58)	ETHYL ACRYLATE	9.679	55	2306359	23.37	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	2548286	21.01	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	4564310	20.94	PPBV		99
61)	1,4-DIOXANE	9.893	88	653321	24.77	PPBV	#	20
62)	HEPTANE	10.187	43	1555190	19.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	1000168	25.22	PPBV		99
64)	METHYL ISOBUTYL KETONE	10.786	58	969468	23.79	PPBV		97
65)	cis-1,3-DICHLOROPROPENE	10.750	75	1985103	23.56	PPBV		97
66)	TOLUENE	11.722	92	2187710	23.93	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	1738240m	22.65	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	1772531	22.91	PPBV		98
69)	1,1,2-TRICHLOROETHANE	11.447	83	1196566	23.91	PPBV		100
71)	2-HEXANONE	12.004	58	1425280	25.09	PPBV		96
72)	ETHYL METHACRYLATE	12.022	69	1817206	25.28	PPBV		97
73)	TETRACHLOROETHYLENE	12.879	164	1702539	20.29	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.151	129	2900352	20.55	PPBV		99
75)	1,2-DIBROMOETHANE	12.395	107	2366337	22.95	PPBV		100
76)	OCTANE	12.744	43	2238080	18.84	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	1899714	20.52	PPBV		100
78)	CHLOROBENZENE	13.582	112	3046547	20.02	PPBV		99
79)	ETHYLBENZENE	13.986	91	4800136	22.00	PPBV		99
80)	m,p-XYLENE	14.188	106	3838940	46.33	PPBV		95
81)	o-XYLENE	14.683	106	1866956	24.57	PPBV		98
82)	STYRENE	14.573	104	2939414	25.25	PPBV		99
83)	NONANE	14.934	43	2271246	19.27	PPBV		98
84)	BROMOFORM	14.249	173	3083788	21.19	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	3171683	23.67	PPBV		99
87)	1,2,3-TRICHLOROPROPANE	14.818	75	2166410	19.01	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	5426205	21.38	PPBV		99
89)	BROMOBENZENE	15.375	77	2635582	19.84	PPBV		99
90)	2-CHLOROTOLUENE	15.772	126	1458347	21.55	PPBV		100
91)	n-PROPYLBENZENE	15.815	120	1498983	22.21	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	5359201	23.50	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	4517483	21.37	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	2401651	23.73	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1027177	23.44	PPBV		95
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	4619537	22.68	PPBV		99
97)	m-DICHLOROBENZENE	16.580	146	3436542	21.01	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	4433280	23.83	PPBV		99
99)	p-DICHLOROBENZENE	16.647	146	3529112	20.84	PPBV		99
100)	sec-BUTYLBENZENE	16.696	134	1236753	22.03	PPBV		92
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	4652009	21.34	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.855	134	1464768	22.76	PPBV		94
103)	o-DICHLOROBENZENE	16.977	146	3353483	20.30	PPBV		99
104)	n-BUTYLBENZENE	17.265	134	1447206	24.56	PPBV		93
105)	HEXACHLOROETHANE	17.608	117	2435886	22.06	PPBV		99
106)	HEXACHLOROBUTADIENE	18.966	225	3259497	18.79	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.886	180	3337105	28.94	PPBV		100
108)	NAPHTHALENE	18.666	128	7329968	26.85	PPBV		98
110)	TVHC as equiv Pentane	5.072	TIC	5936529	16.52	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

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

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

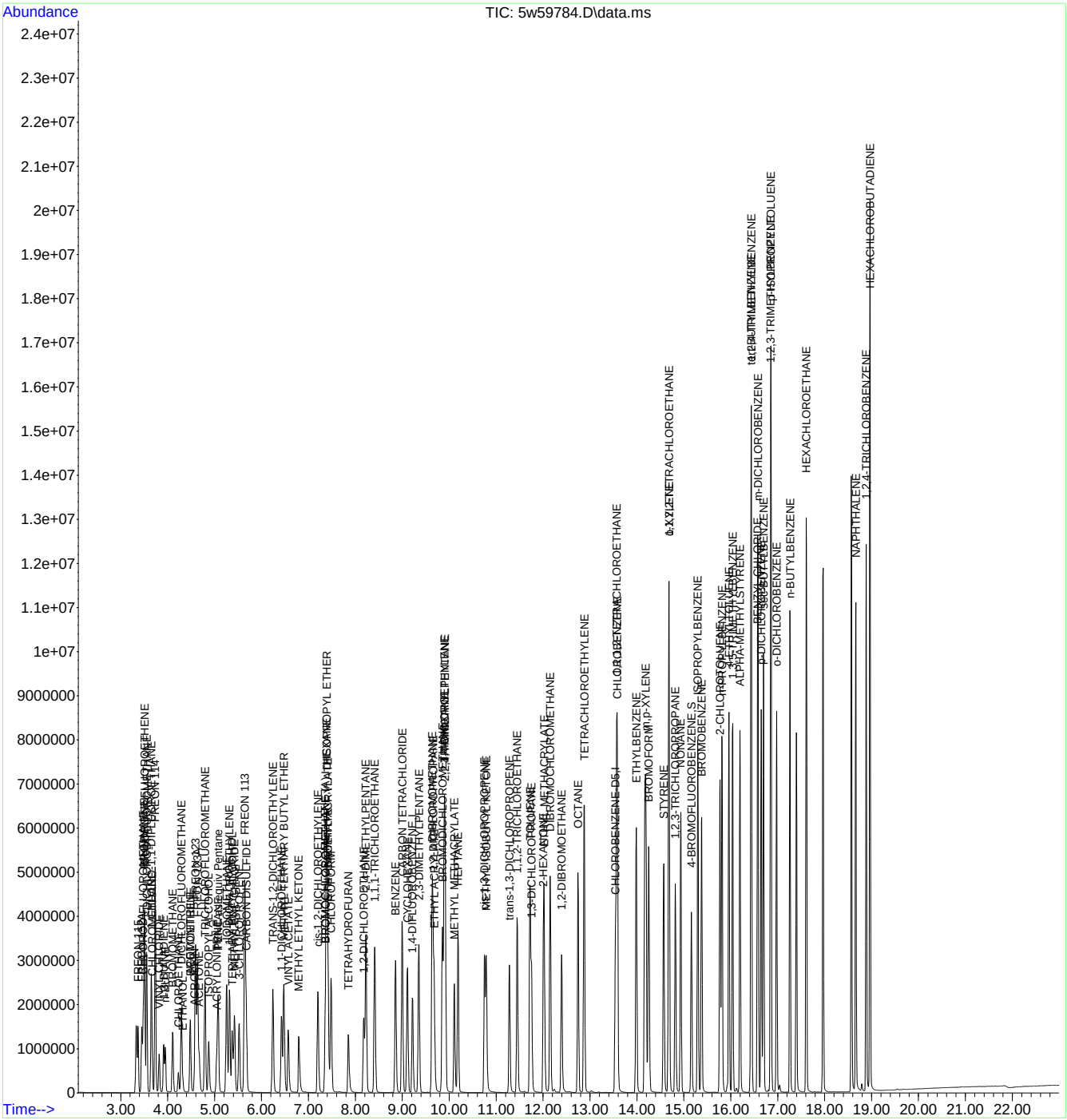
7.2.7

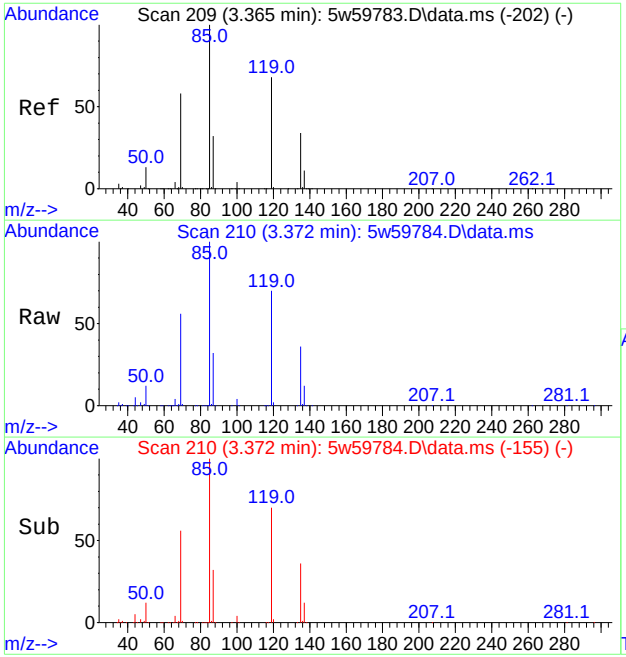
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:39:46 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration

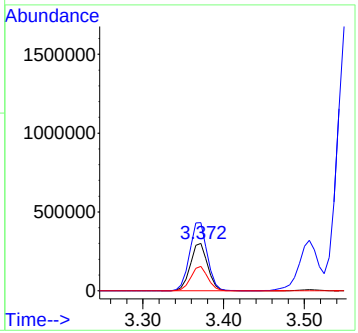


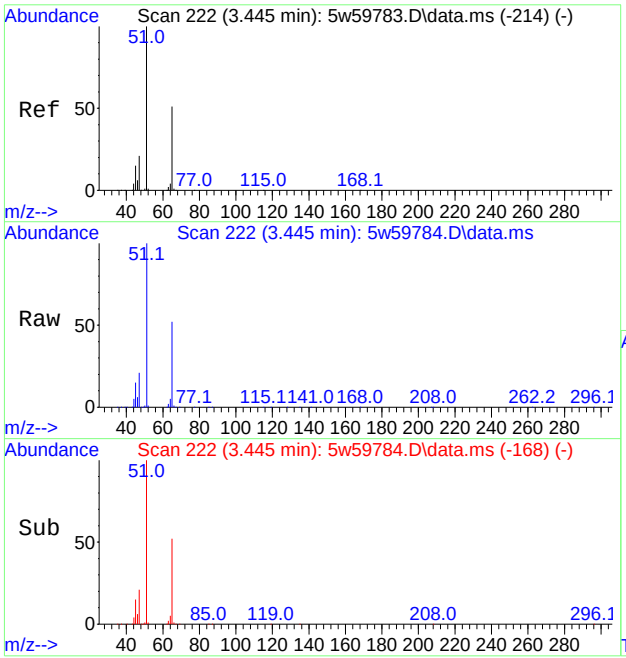


#2
FREON 115
Concen: 7.75 PPBV
RT: 3.372 min Scan# 210
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:119 Resp: 450963

Ion	Ratio	Lower	Upper
119	100		
85	146.0	116.2	176.2
135	50.3	20.6	80.6

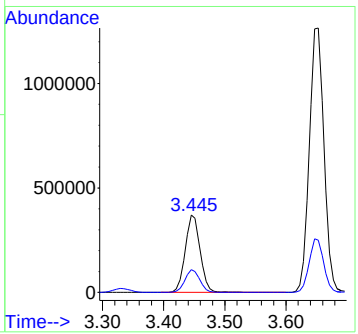


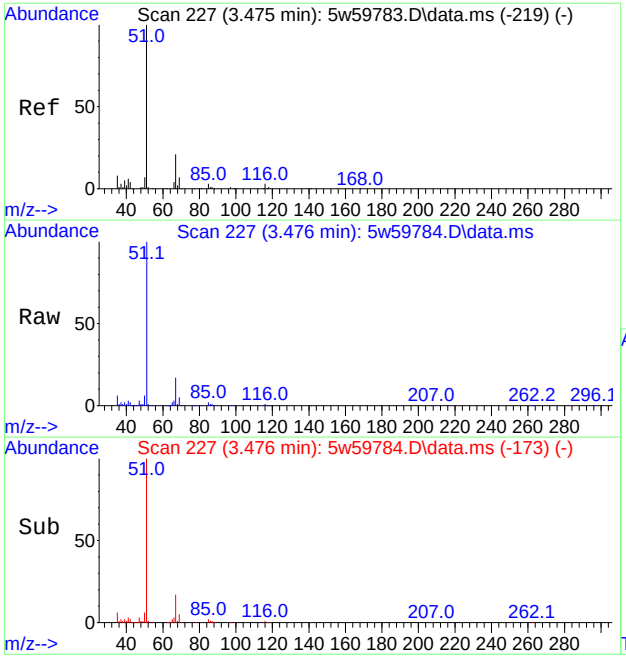


#3
FREON 152A
Concen: 18.20 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 629601

Ion	Ratio	Lower	Upper
65	100		
45	29.1	0.0	60.0

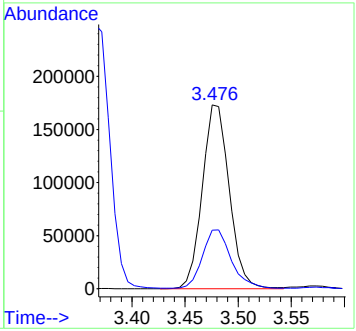


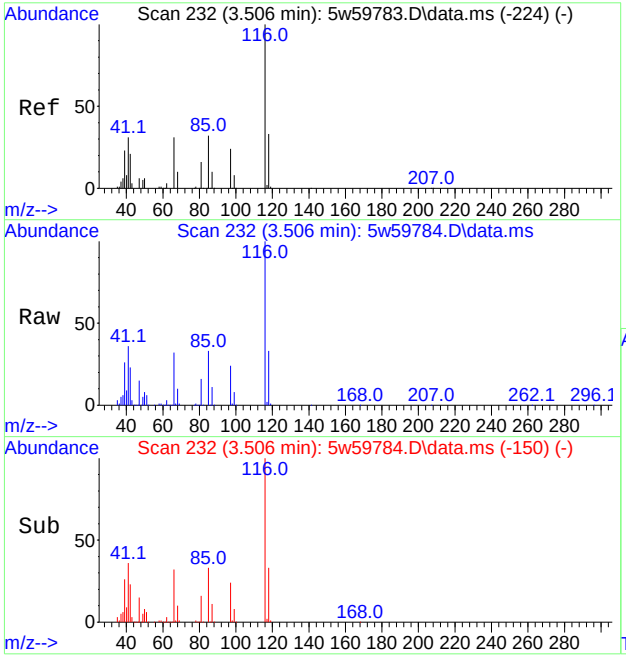


#4
CHLORODIFLUOROMETHANE
Concen: 19.32 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 306106

Ion	Ratio	Lower	Upper
67	100		
69	31.9	1.0	61.0

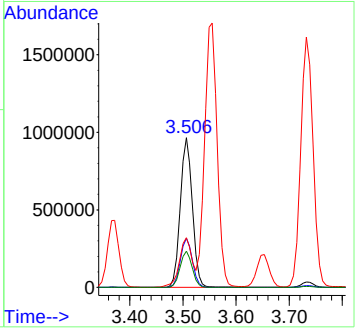


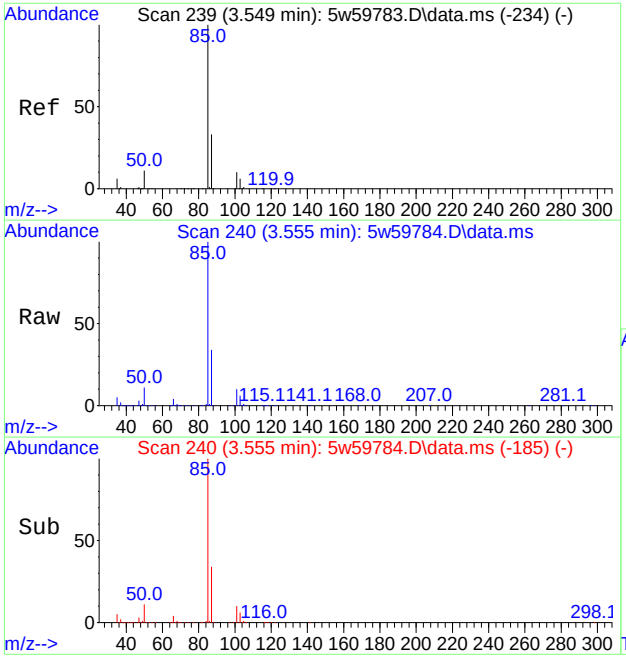


#5
CHLOROTRIFLUOROETHENE
Concen: 20.38 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:116 Resp: 1520054

Ion	Ratio	Lower	Upper
116	100		
118	32.8	22.9	42.5
85	35.4	23.7	44.1
97	24.2	17.0	31.6

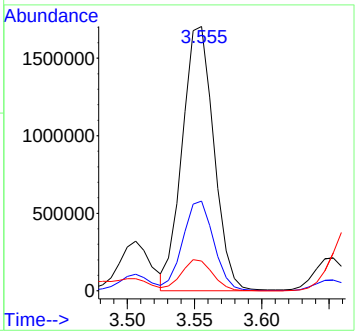


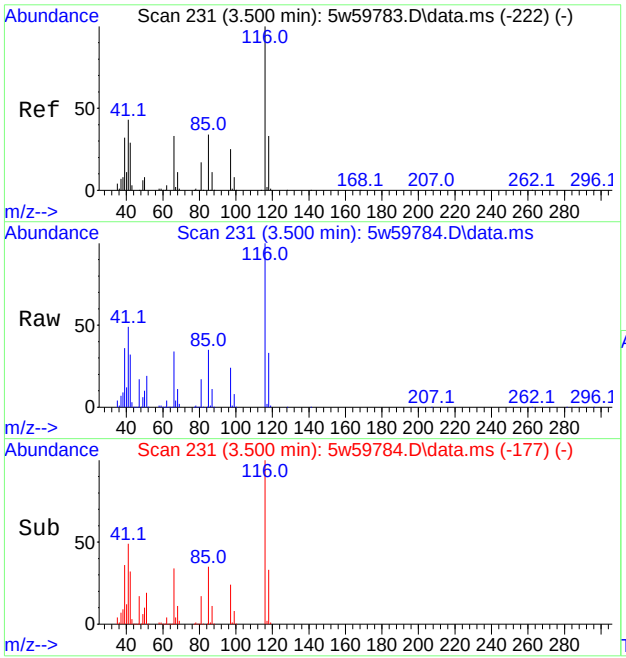


#6
DICHLORODIFLUOROMETHANE
Concen: 18.80 PPBV
RT: 3.555 min Scan# 240
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2793626

Ion	Ratio	Lower	Upper
85	100		
87	33.4	2.5	62.5
50	11.7	0.0	41.7

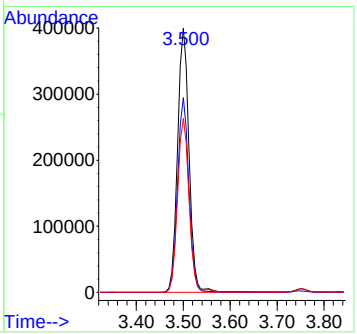


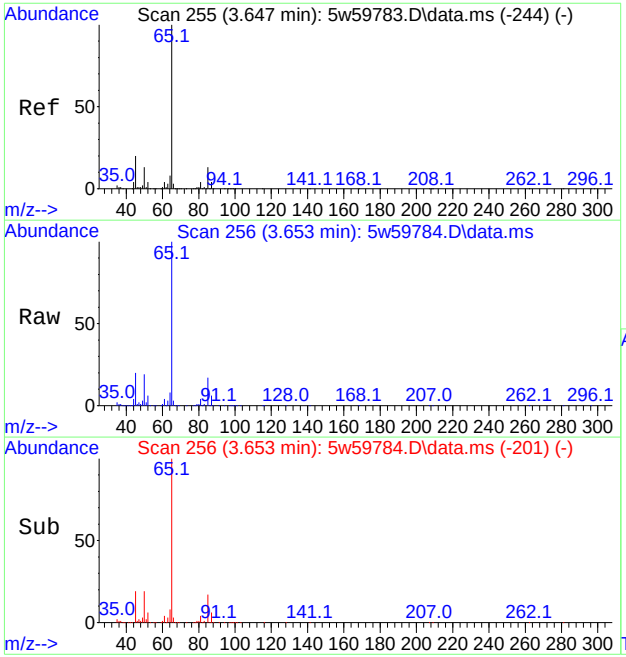


#7
PROPYLENE
Concen: 17.76 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 679227

Ion	Ratio	Lower	Upper
41	100		
39	73.5	45.1	105.1
42	66.1	36.3	96.3

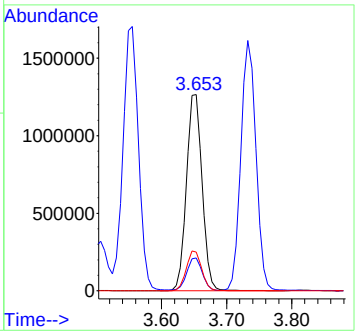


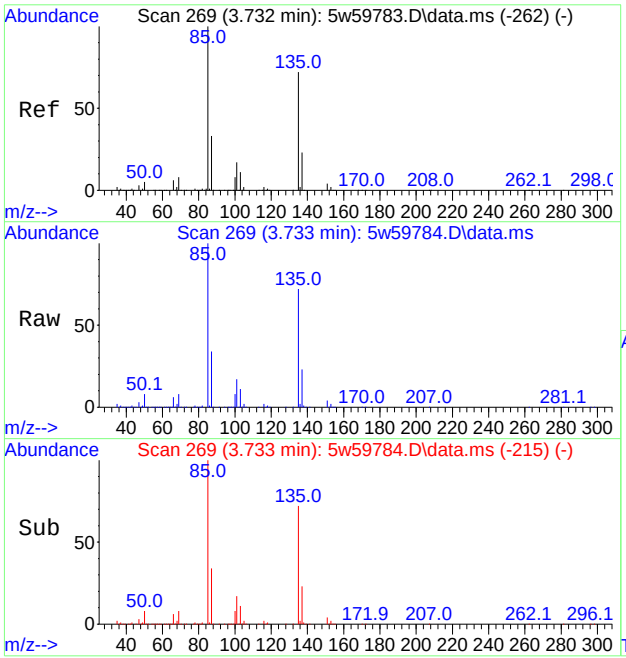


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 15.73 PPBV
RT: 3.653 min Scan# 256
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 65 Resp: 2117806

Ion	Ratio	Lower	Upper
65	100		
85	16.6	11.5	21.3
45	20.2	14.0	26.0

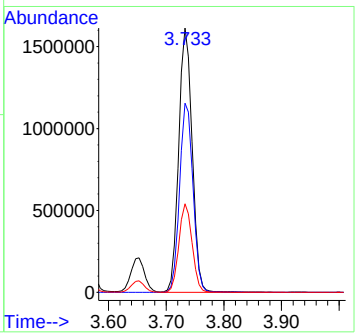


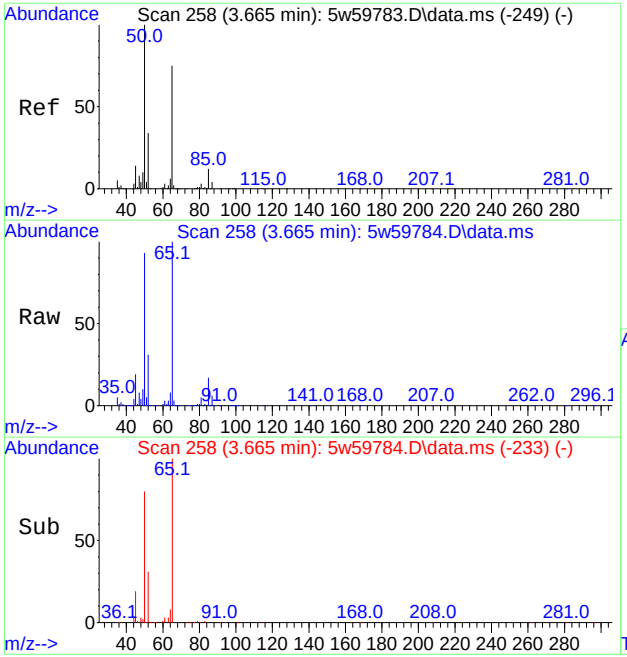


#9
FREON 114
Concen: 20.44 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 85 Resp: 2612576

Ion	Ratio	Lower	Upper
85	100		
135	71.9	40.5	100.5
87	33.3	3.0	63.0

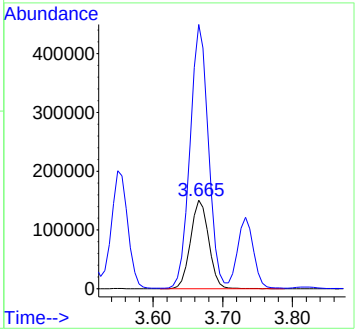


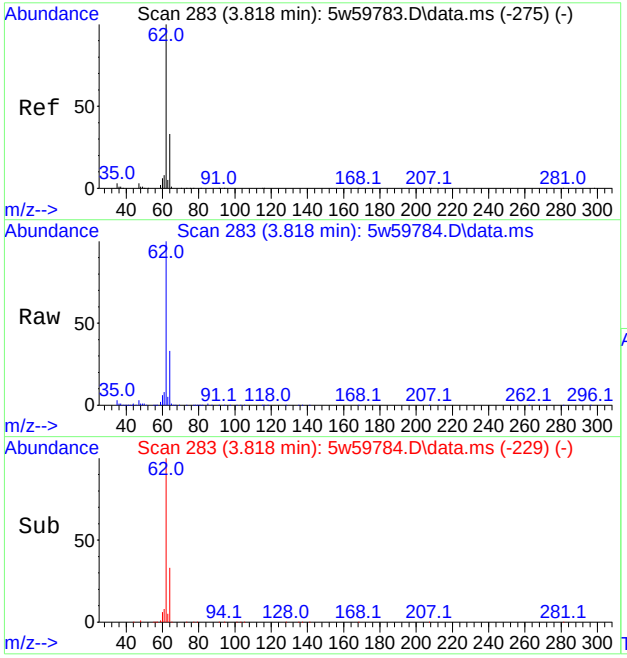


#10
CHLOROMETHANE
Concen: 17.35 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 274402

Ion	Ratio	Lower	Upper
52	100		
50	298.2	267.9	327.9

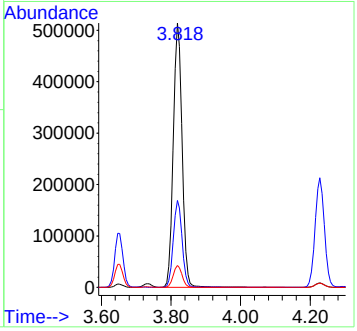


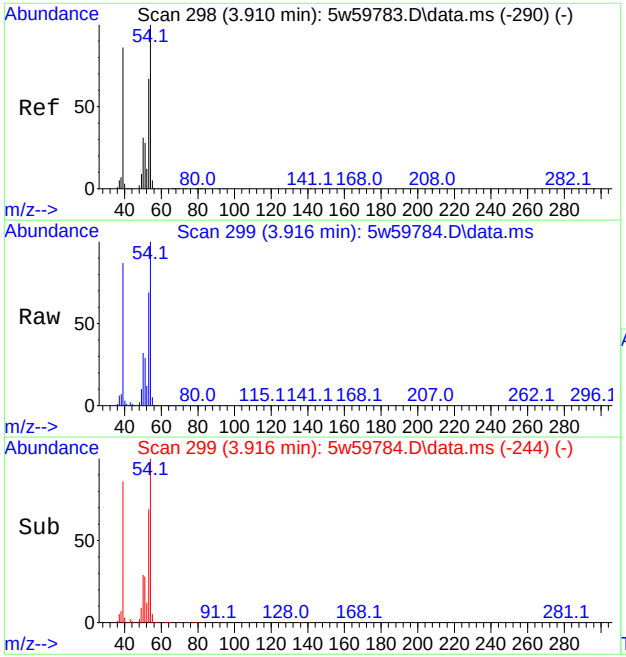


#11
VINYL CHLORIDE
Concen: 18.27 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 907868

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.3	0.0	38.2

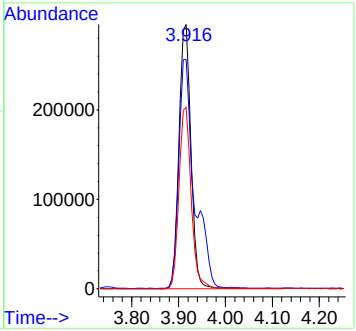


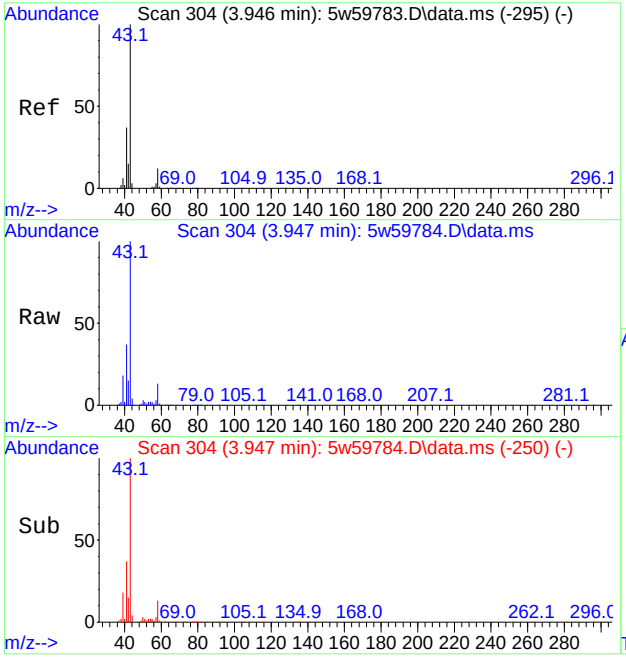


#12
1,3-BUTADIENE
Concen: 15.76 PPBV m
RT: 3.916 min Scan# 299
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 54 Resp: 526623

Ion	Ratio	Lower	Upper
54	100		
39	93.3	82.0	142.0
53	70.7	40.2	100.2

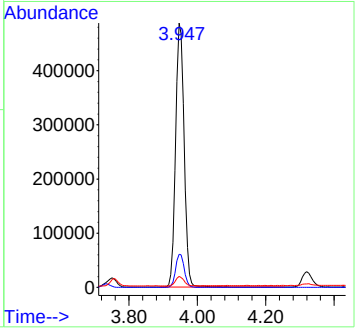


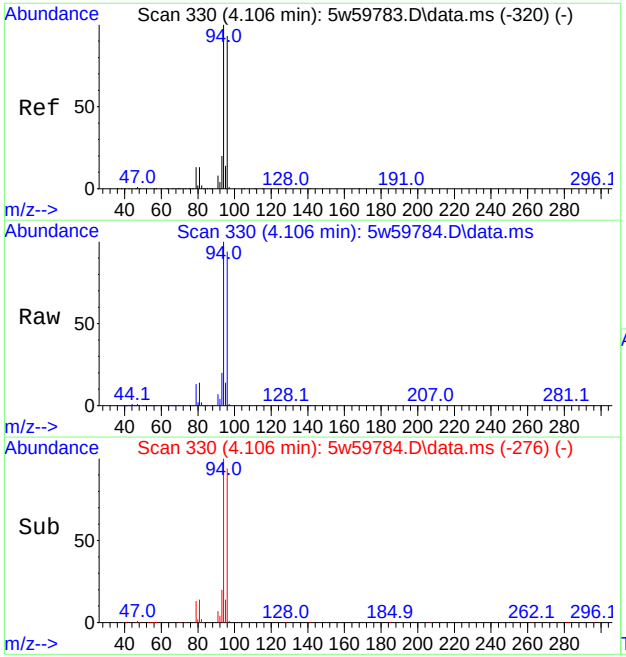


#13
n-BUTANE
Concen: 14.02 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 848889

Ion	Ratio	Lower	Upper
43	100		
58	12.7	0.0	42.6
44	3.5	0.0	34.9

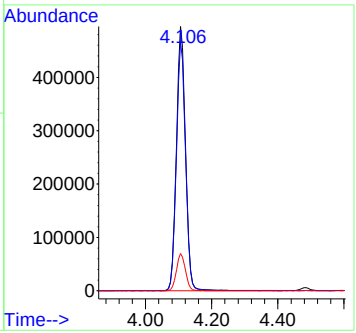


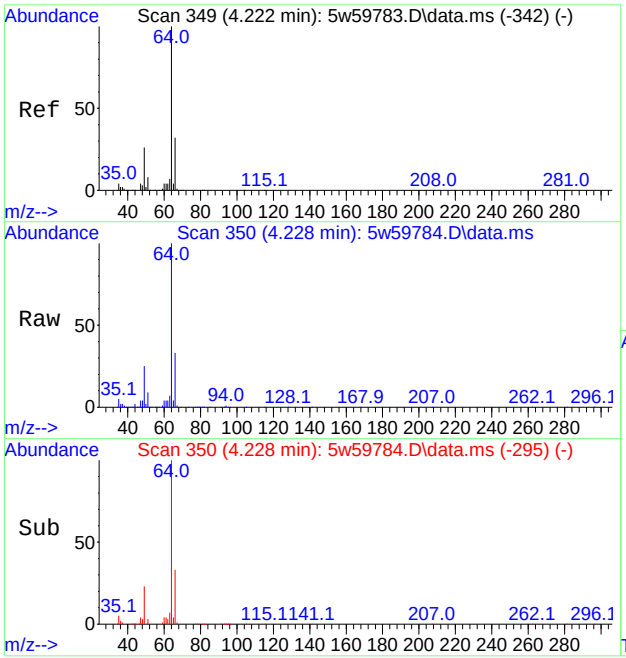


#14
BROMOMETHANE
Concen: 19.40 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 94 Resp: 947413

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

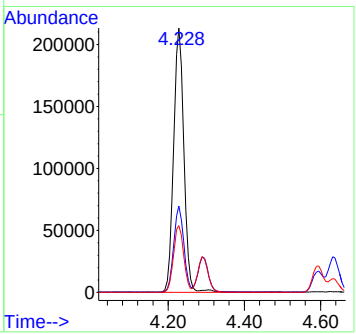


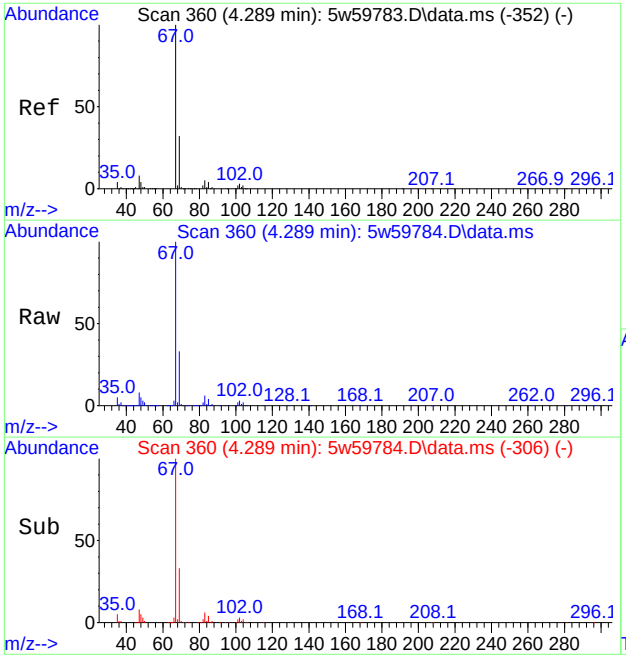


#15
CHLOROETHANE
Concen: 17.76 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 64 Resp: 401918

Ion	Ratio	Lower	Upper
64	100		
66	32.2	3.1	63.1
49	24.9	0.0	55.3

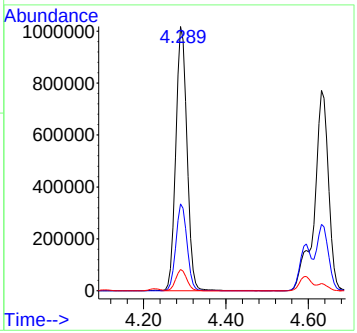


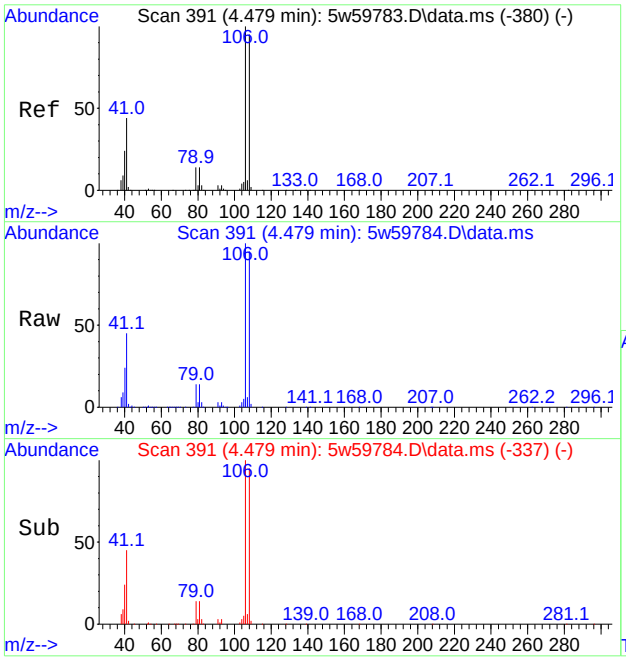


#16
DICHLOROFLUOROMETHANE
Concen: 16.60 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 67 Resp: 1915216

Ion	Ratio	Lower	Upper
67	100		
69	32.8	22.7	42.3
47	8.1	5.6	10.4

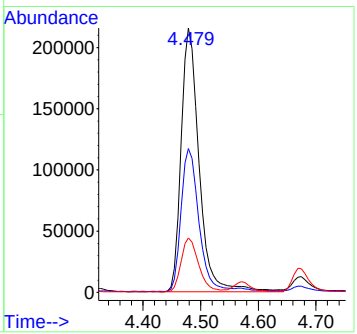


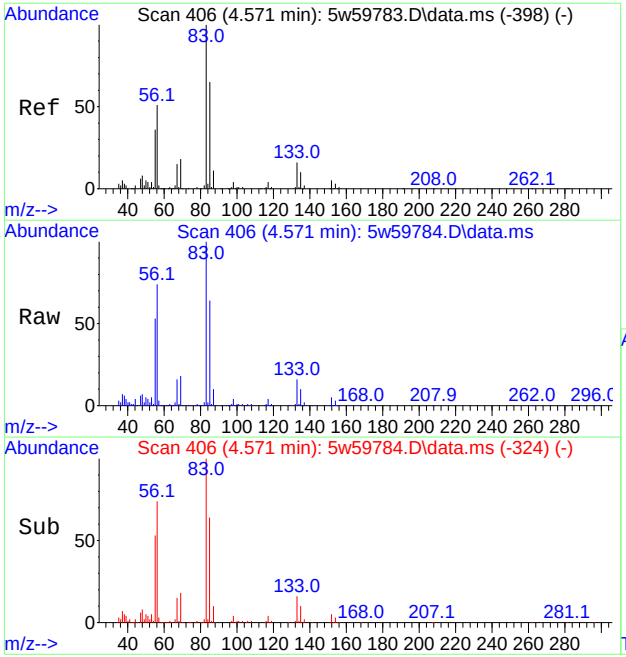


#17
ACETONITRILE
Concen: 13.59 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 41 Resp: 467576

Ion	Ratio	Lower	Upper
41	100		
40	54.4	37.9	70.5
39	19.7	13.4	24.8

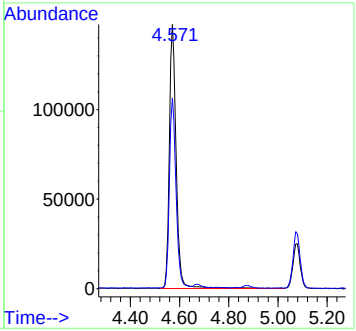


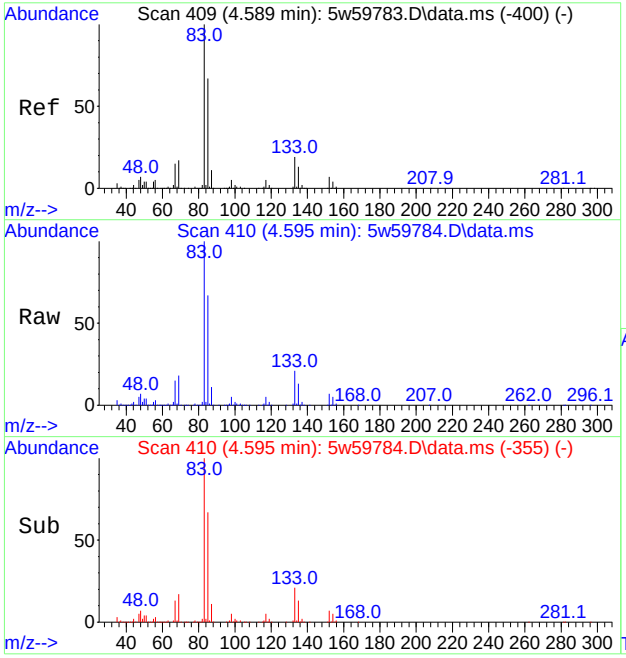


#18
ACROLEIN
Concen: 15.70 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 56 Resp: 282182

Ion	Ratio	Lower	Upper
56	100		
55	70.3	46.6	86.6

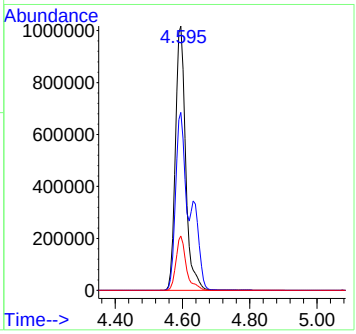


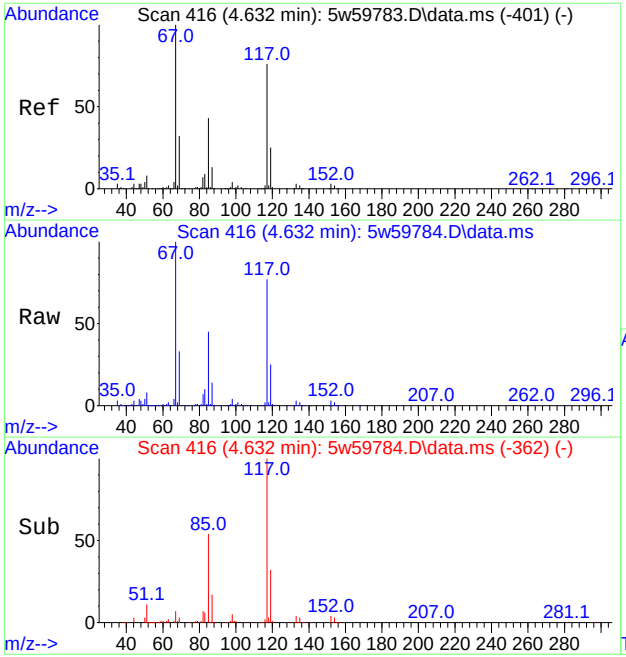


#19
FREON 123
Concen: 18.75 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2144663

Ion	Ratio	Lower	Upper
83	100		
85	66.7	34.0	94.0
133	20.9	0.0	50.7

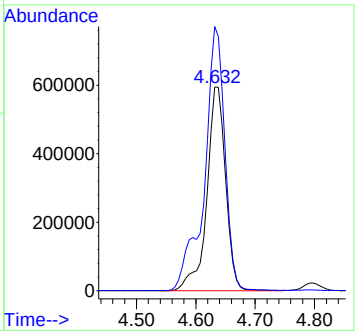


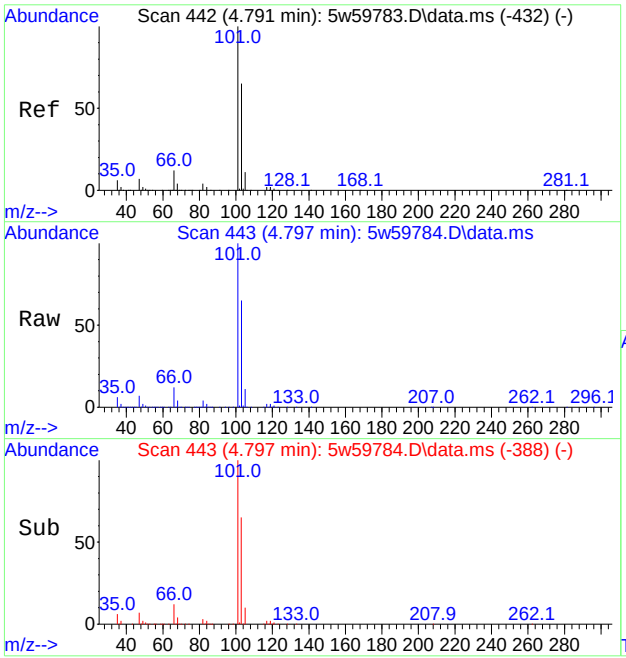


#20
FREON 123A
Concen: 18.34 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 1303591

Ion	Ratio	Lower	Upper
117	100		
67	141.5	114.6	174.6

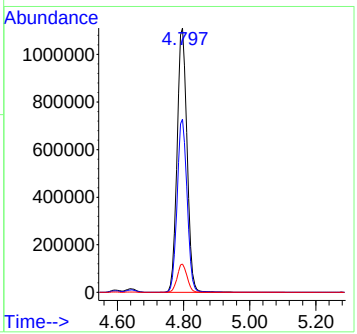


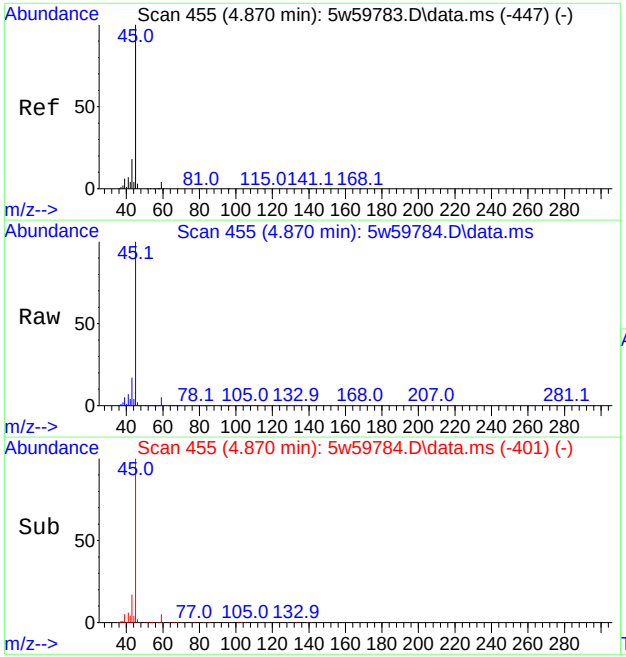


#21
TRICHLOROFLUOROMETHANE
Concen: 14.25 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:101 Resp: 2321202

Ion	Ratio	Lower	Upper
101	100		
103	65.6	35.0	95.0
105	10.8	0.0	40.7

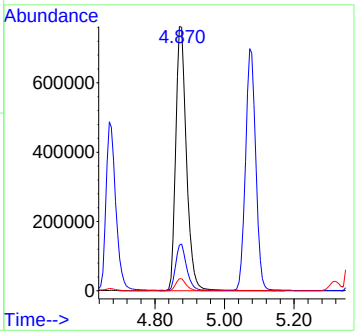


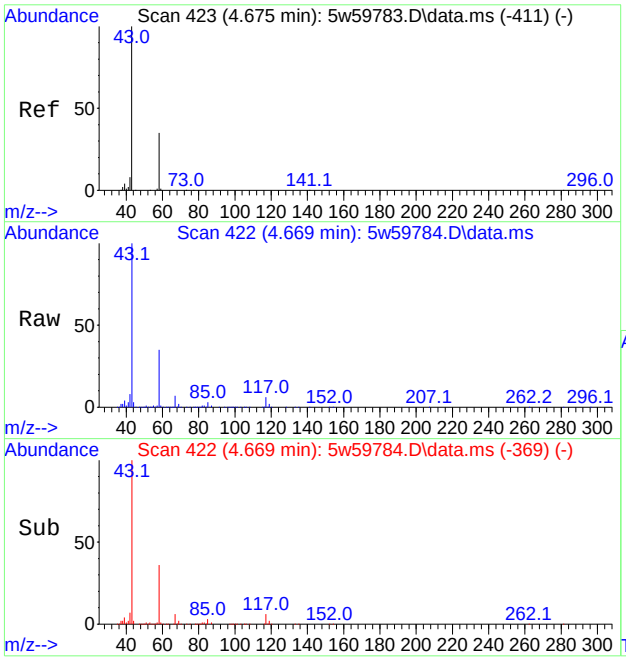


#22
ISOPROPYL ALCOHOL
Concen: 14.11 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 1635668

Ion	Ratio	Lower	Upper
45	100		
43	17.2	0.0	47.8
59	4.6	0.0	34.1

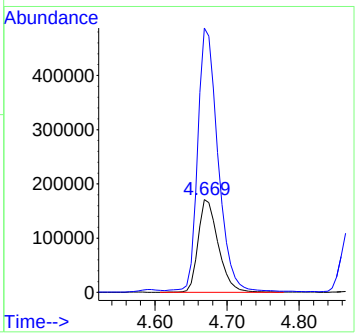


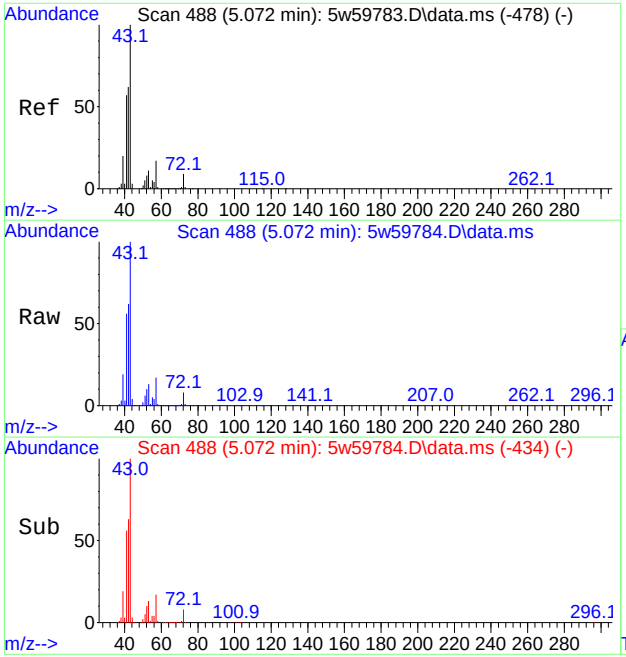


#23
ACETONE
Concen: 16.18 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 334468

Ion	Ratio	Lower	Upper
58	100		
43	284.6	252.3	312.3

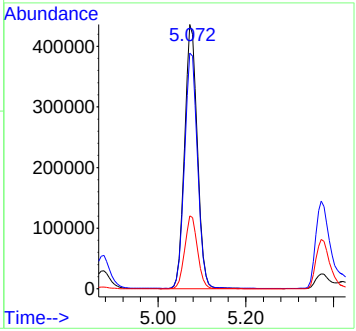


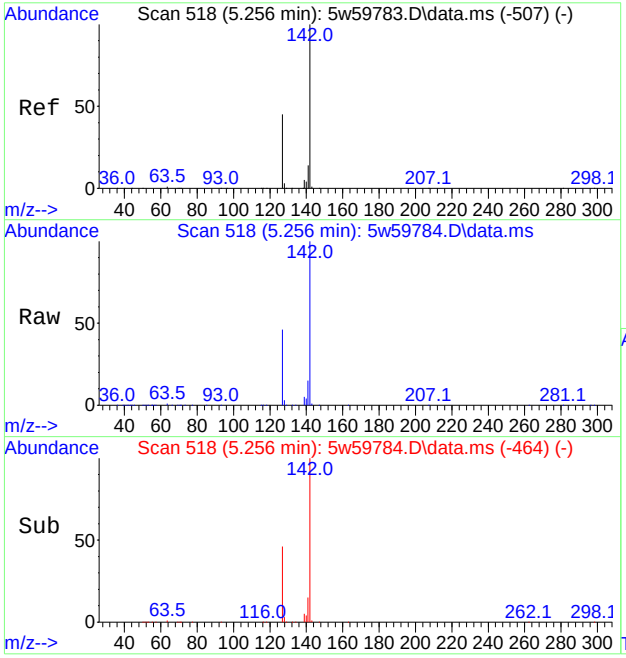


#24
PENTANE
Concen: 14.37 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 42 Resp: 880198

Ion	Ratio	Lower	Upper
42	100		
41	91.2	62.3	122.3
57	27.8	0.0	57.7

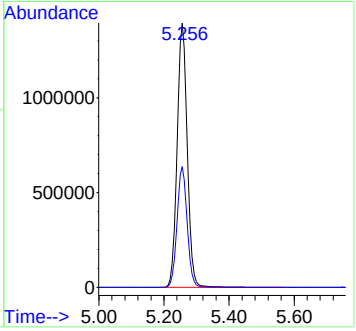


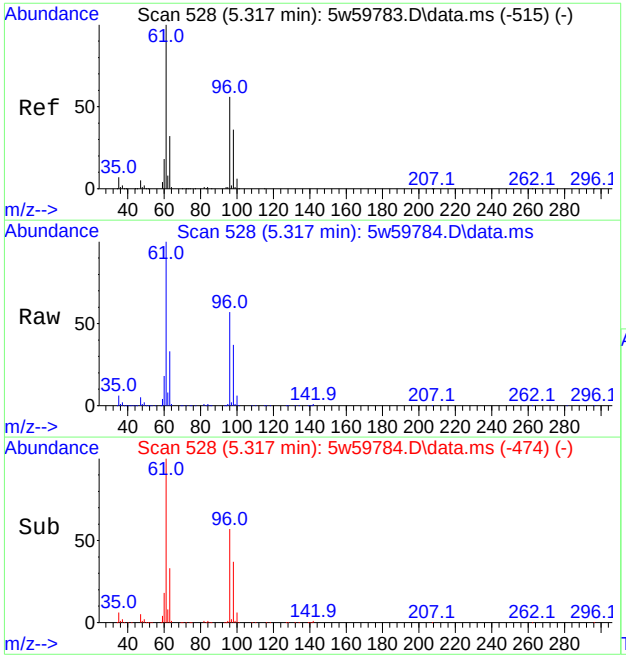


#25
IODOMETHANE
Concen: 20.19 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:142 Resp: 3031933

Ion	Ratio	Lower	Upper
142	100		
127	45.9	16.0	76.0

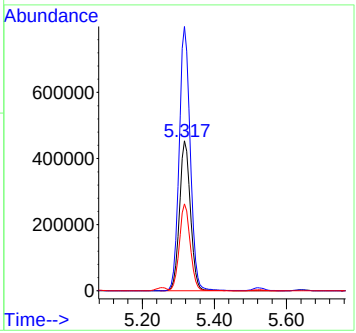


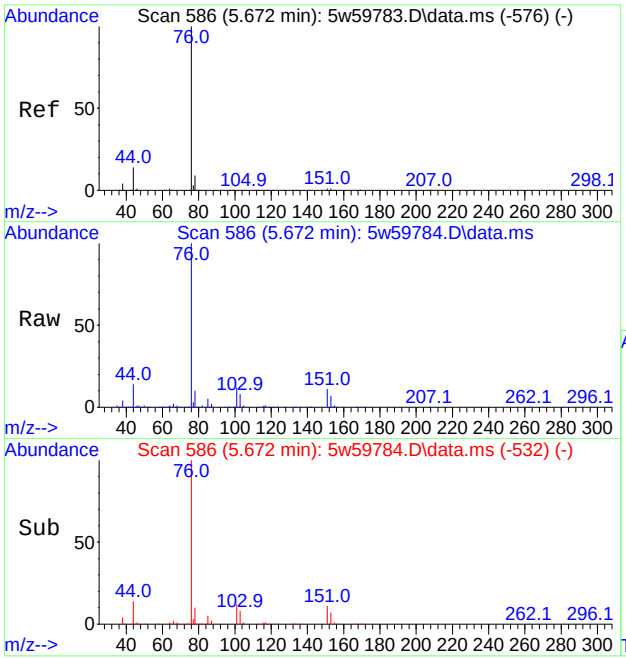


#26
1,1-DICHLOROETHYLENE
Concen: 17.96 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 959349

Ion	Ratio	Lower	Upper
96	100		
61	177.3	148.5	208.5
63	57.4	27.4	87.4

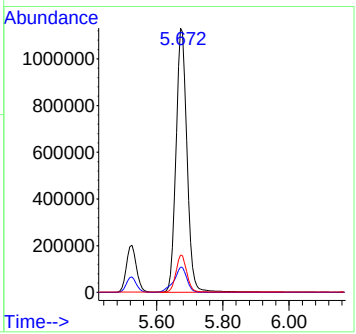


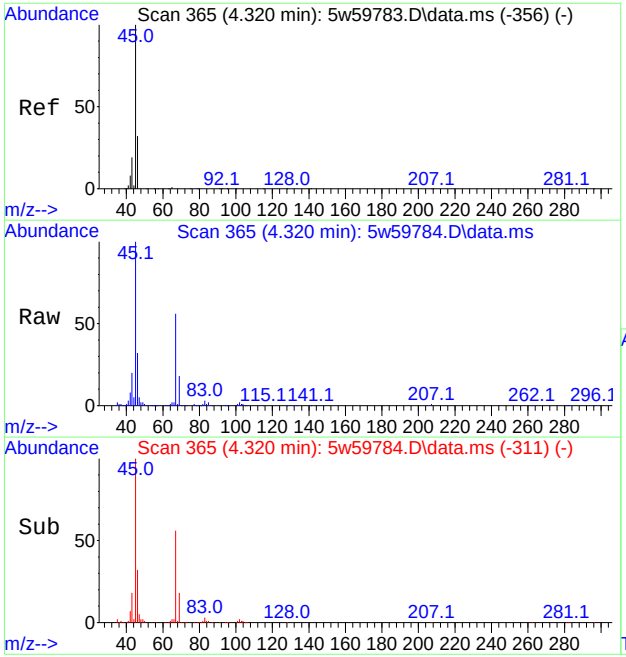


#27
CARBON DISULFIDE
Concen: 18.51 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 2608827

Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	41.5
44	14.0	0.0	44.6

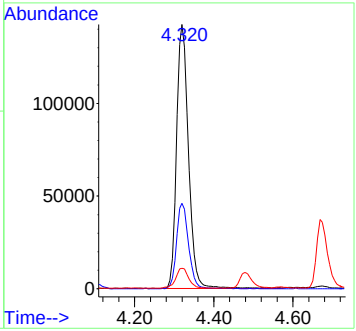


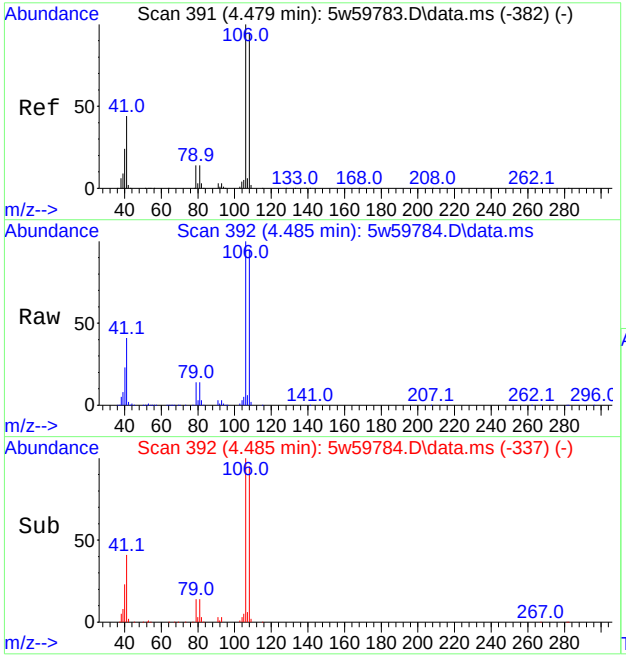


#28
ETHANOL
Concen: 13.05 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 45 Resp: 298730

Ion	Ratio	Lower	Upper
45	100		
46	32.8	2.0	62.0
42	8.4	0.0	38.5

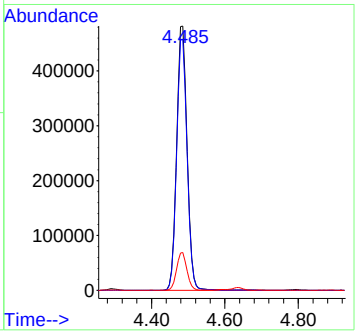


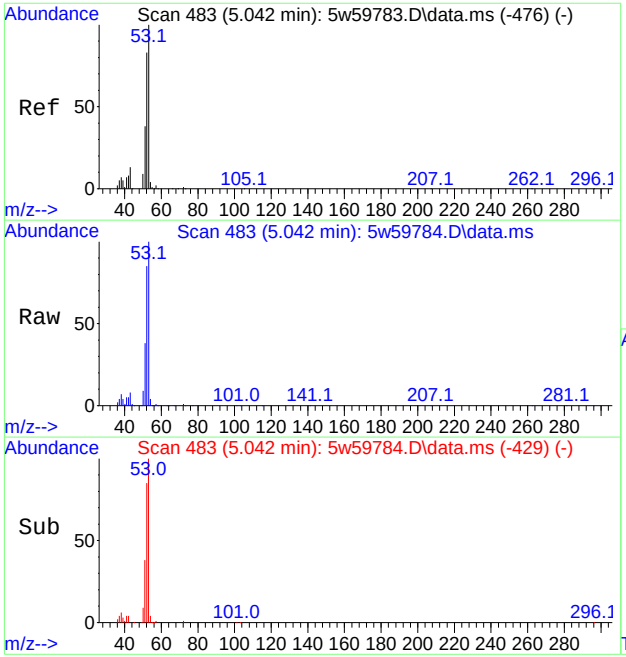


#29
BROMOETHENE
Concen: 20.43 PPBV
RT: 4.485 min Scan# 392
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 957242

Ion	Ratio	Lower	Upper
106	100		
108	95.3	65.6	125.6
81	14.2	0.0	43.9

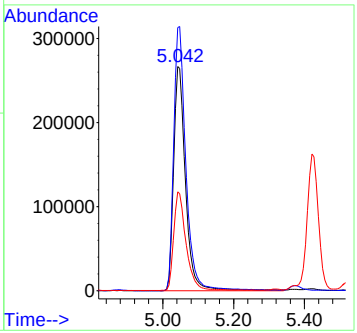


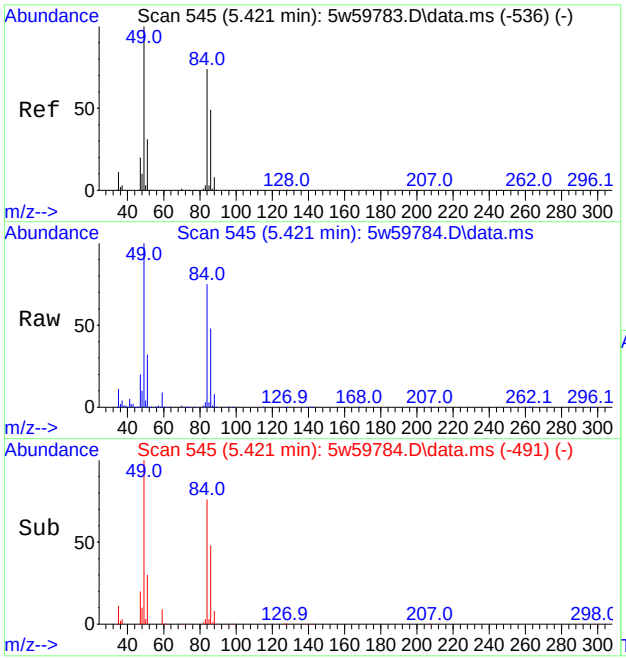


#30
ACRYLONITRILE
Concen: 17.51 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 52 Resp: 624246

Ion	Ratio	Lower	Upper
52	100		
53	121.1	85.8	159.4
51	45.8	32.3	60.1

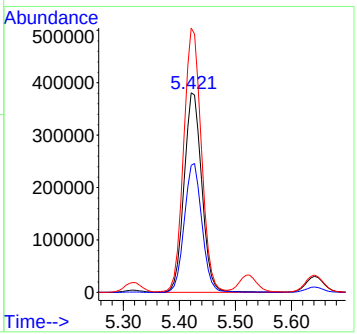


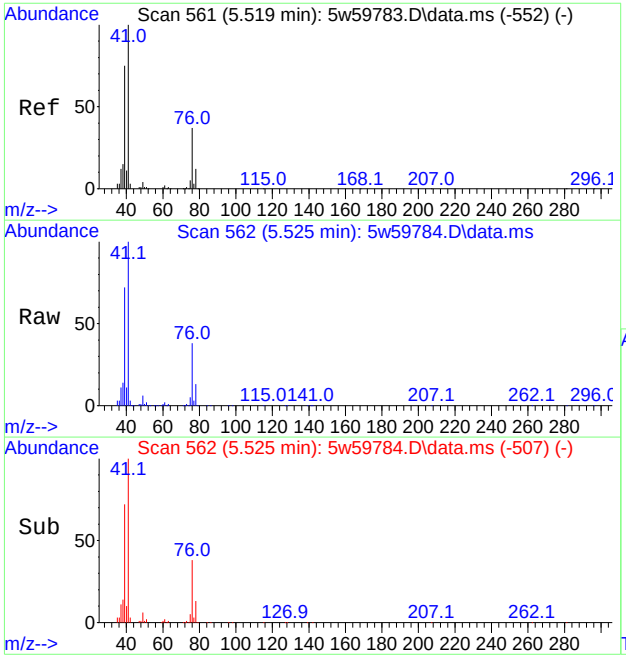


#31
METHYLENE CHLORIDE
Concen: 17.45 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 836157

Ion	Ratio	Lower	Upper
84	100		
86	64.4	35.2	95.2
49	132.4	105.3	165.3

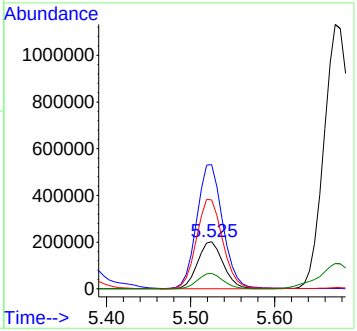


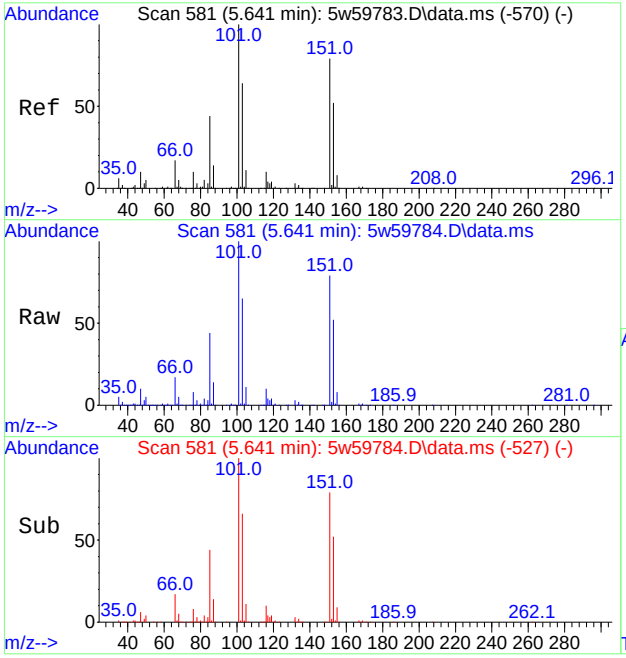


#32
3-CHLOROPROPENE
Concen: 19.53 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 430205

Ion	Ratio	Lower	Upper
76	100		
41	267.1	240.8	300.8
39	193.9	173.6	233.6
78	32.7	2.8	62.8

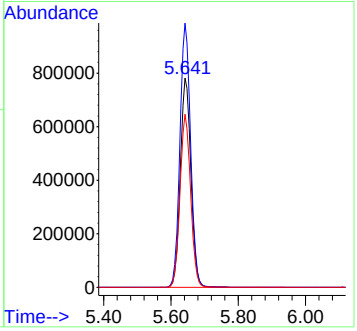


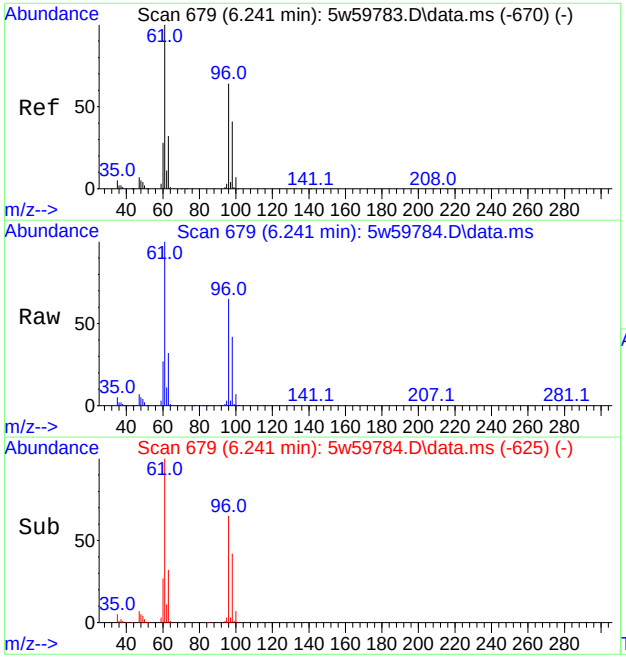


#33
FREON 113
Concen: 18.38 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:151 Resp: 1722837

Ion	Ratio	Lower	Upper
151	100		
101	126.3	97.5	157.5
103	82.1	52.5	112.5

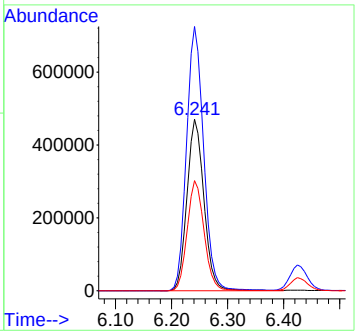


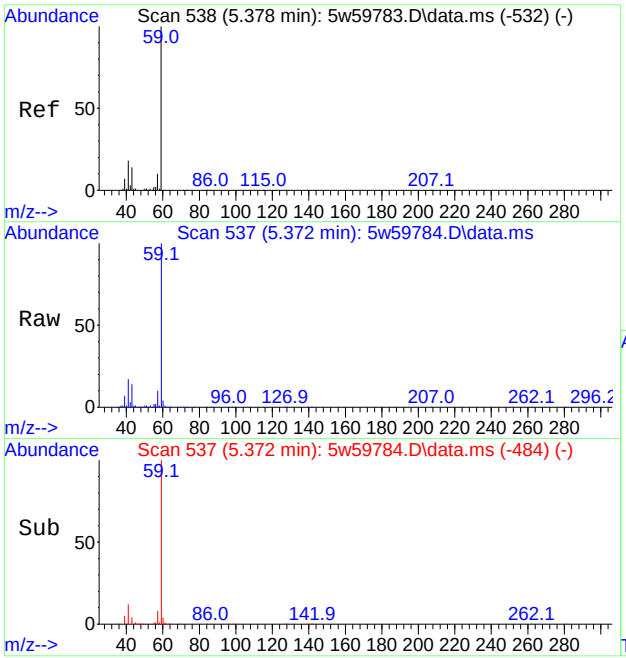


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 18.16 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 990650

Ion	Ratio	Lower	Upper
96	100		
61	155.3	126.4	186.4
98	64.1	34.1	94.1

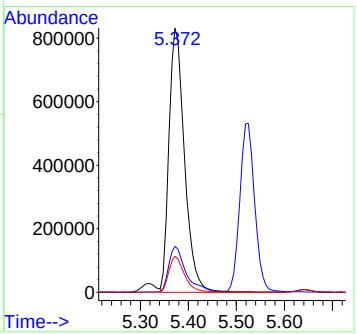


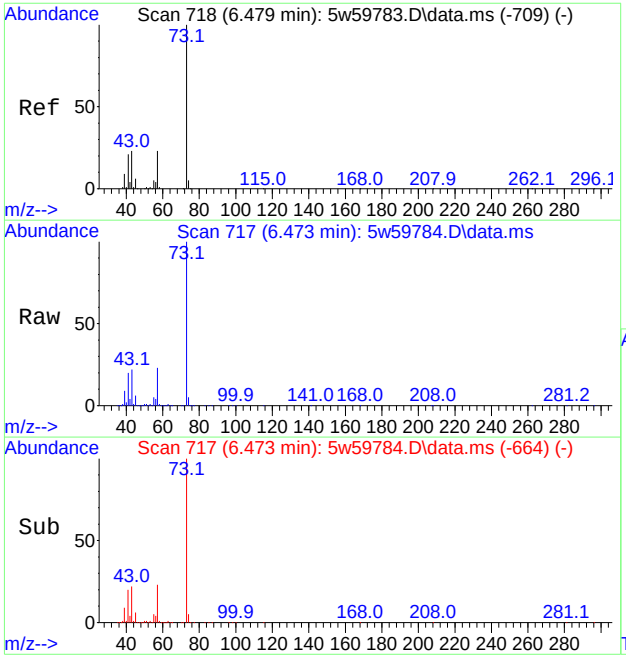


#35
TERTIARY BUTYL ALCOHOL
Concen: 16.33 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 1868378

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.7	0.0	44.1

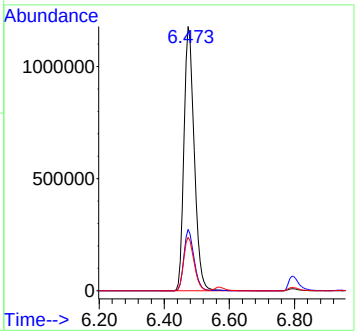


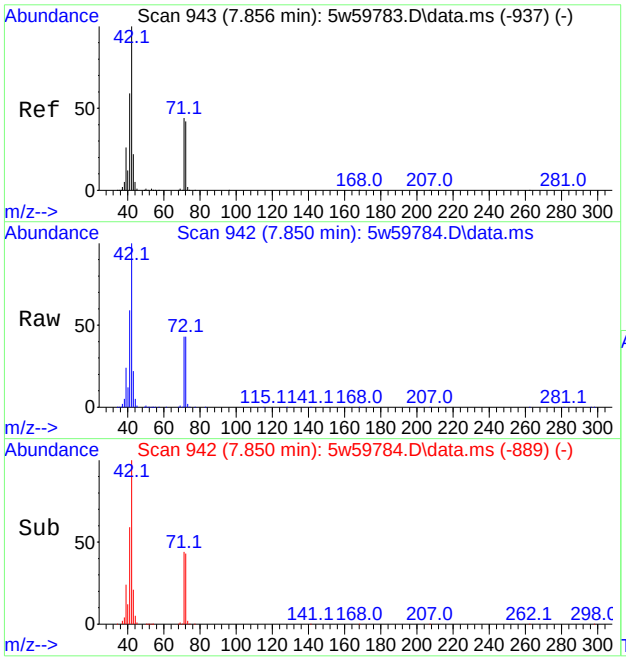


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.14 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 73 Resp: 2584253

Ion	Ratio	Lower	Upper
73	100		
57	22.8	0.0	53.1
41	20.4	0.0	50.6

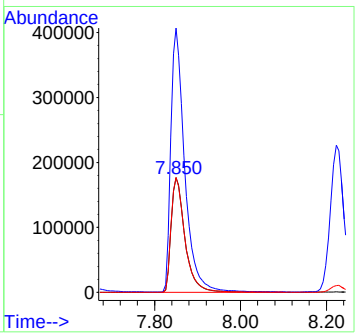


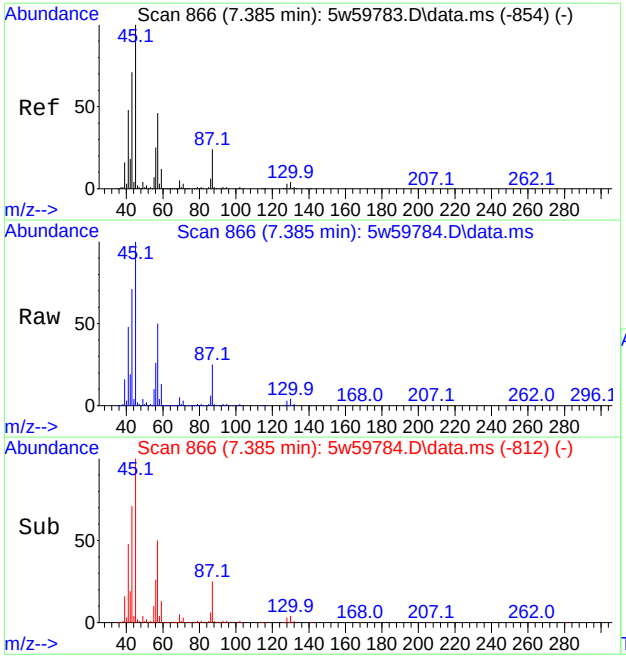


#37
TETRAHYDROFURAN
Concen: 22.19 PPBV
RT: 7.850 min Scan# 942
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 399188

Ion	Ratio	Lower	Upper
72	100		
42	228.7	202.4	262.4
71	100.4	71.1	131.1

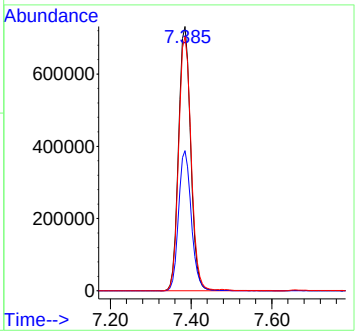


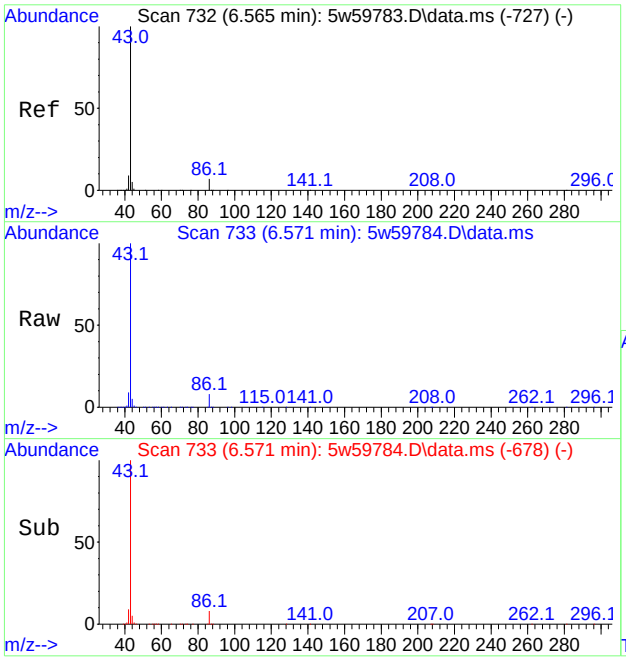


#38
HEXANE
Concen: 20.27 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1526495

Ion	Ratio	Lower	Upper
57	100		
56	55.6	25.9	85.9
41	99.2	74.7	134.7

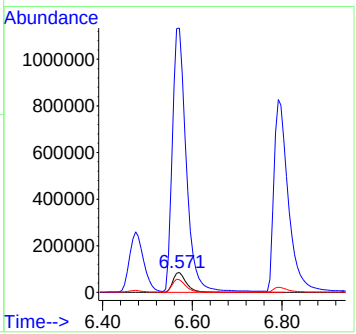


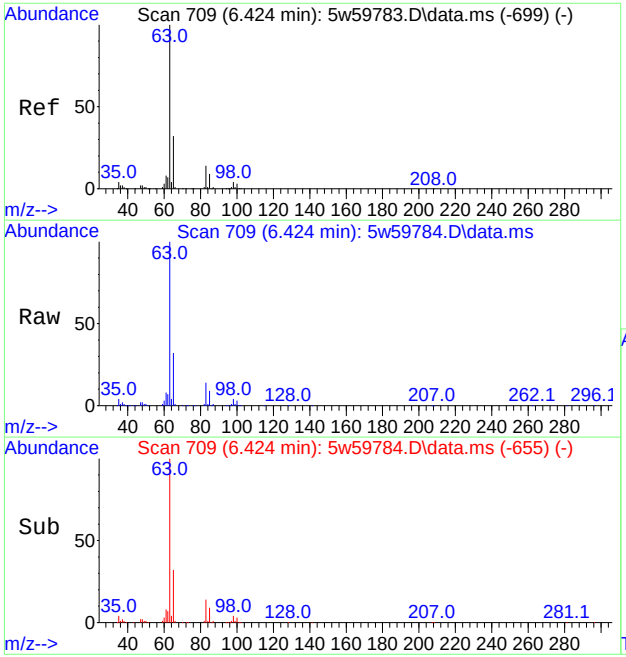


#39
VINYL ACETATE
Concen: 19.94 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 86 Resp: 179566

Ion	Ratio	Lower	Upper
86	100		
43	1346.7	1379.7	1439.7#
44	64.7	36.9	96.9

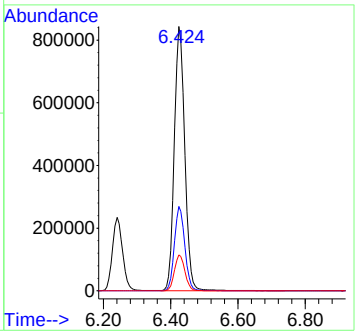


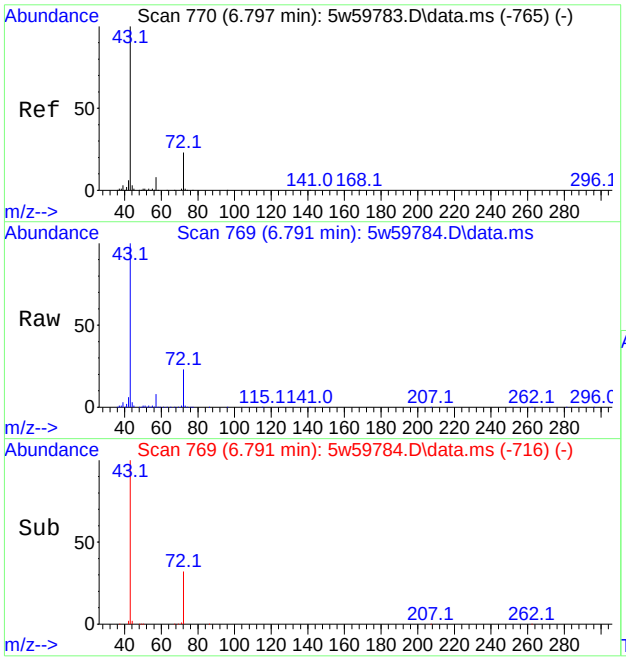


#40
1,1-DICHLOROETHANE
Concen: 18.32 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1823762

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.7	61.7
83	13.6	0.0	43.5

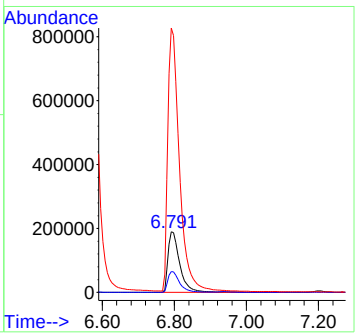


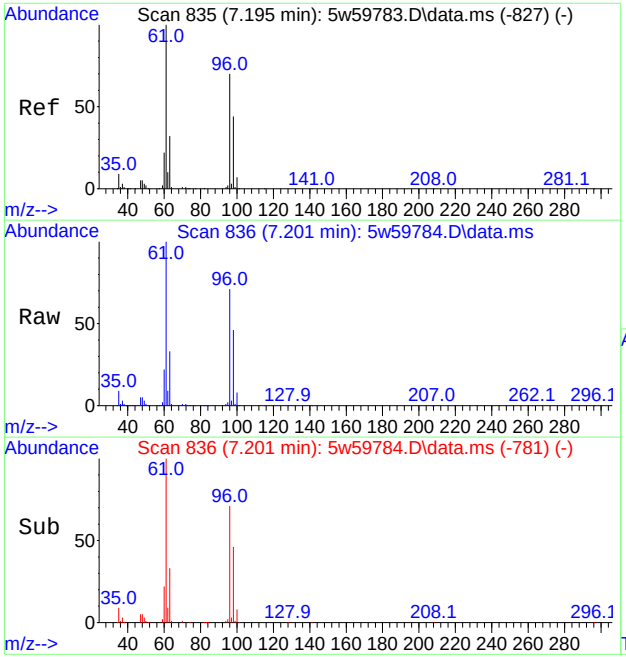


#41
METHYL ETHYL KETONE
Concen: 22.94 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 72 Resp: 430294

Ion	Ratio	Lower	Upper
72	100		
57	34.5	4.8	64.8
43	437.4	415.9	475.9

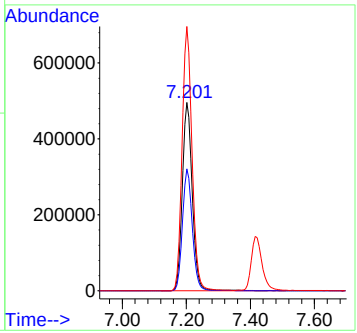


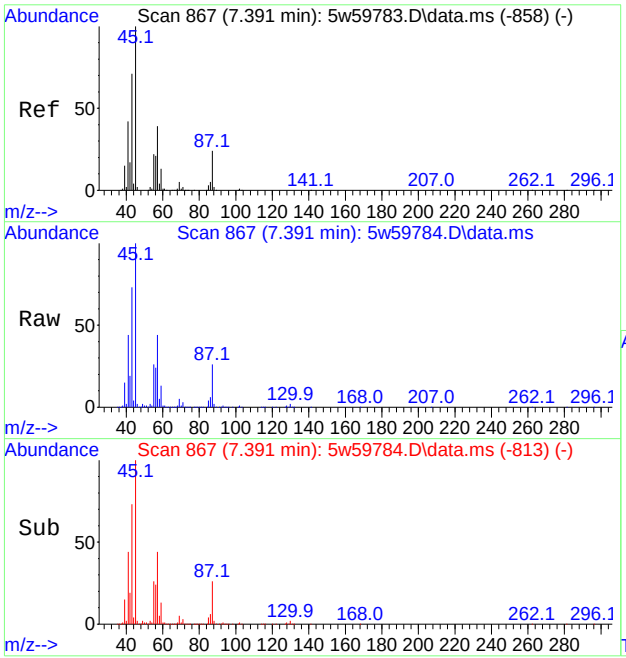


#42
cis-1,2-DICHLOROETHYLENE
Concen: 19.00 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 96 Resp: 1068157

Ion	Ratio	Lower	Upper
96	100		
98	64.3	34.0	94.0
61	140.2	111.5	171.5

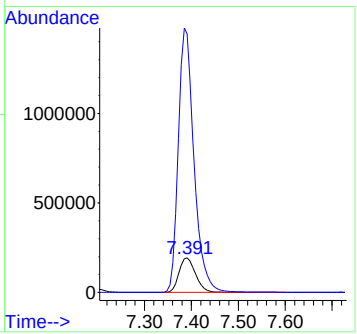


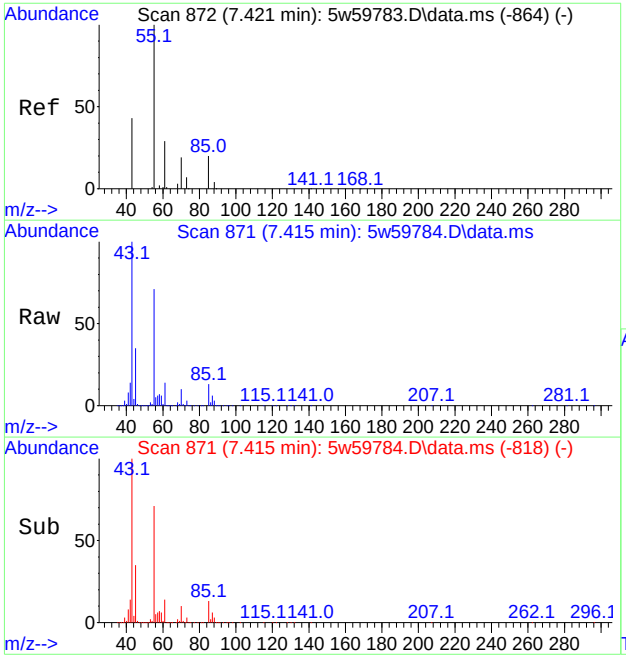


#43
DIISOPROPYL ETHER
Concen: 23.11 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 59 Resp: 472029

Ion	Ratio	Lower	Upper
59	100		
45	729.2	720.9	780.9

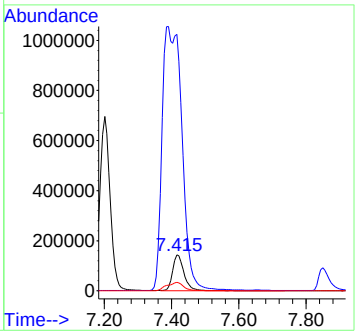


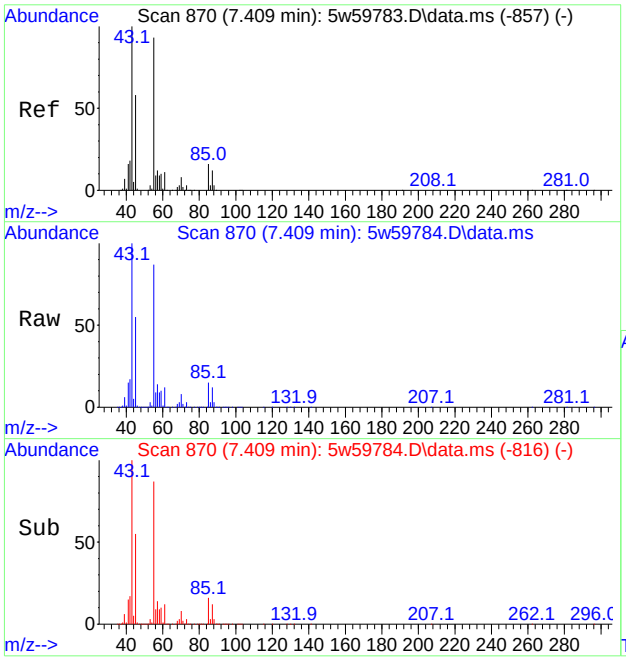


#44
ETHYL ACETATE
Concen: 22.04 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 61 Resp: 340212

Ion	Ratio	Lower	Upper
61	100		
43	580.2	560.5	620.5
88	35.0	4.5	64.5

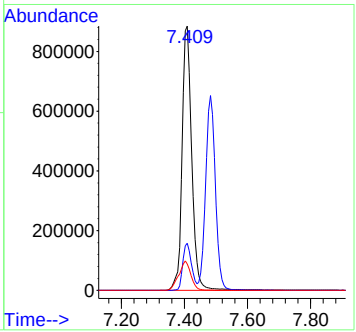


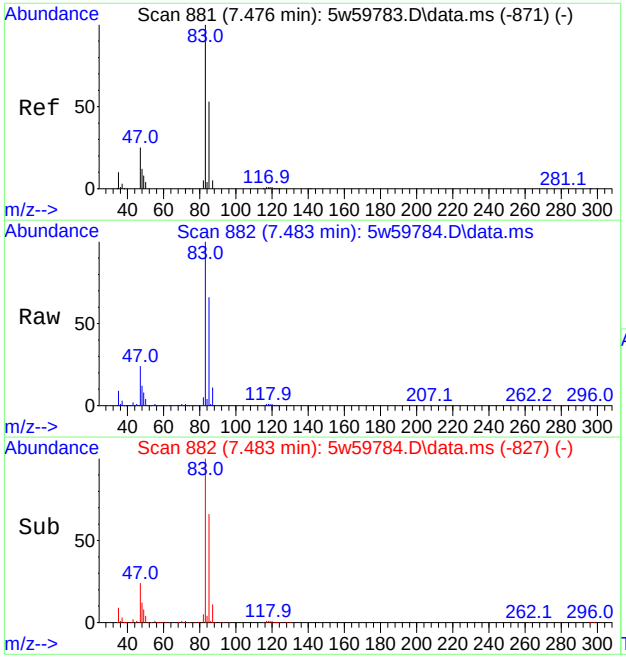


#45
METHYL ACRYLATE
Concen: 21.07 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 1885856

Ion	Ratio	Lower	Upper
55	100		
85	16.1	10.9	20.3
58	13.9	9.4	17.6

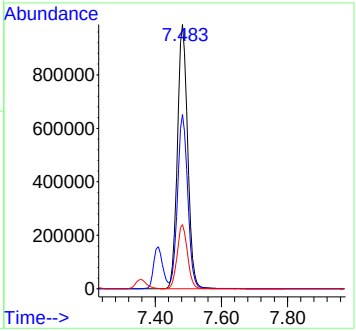


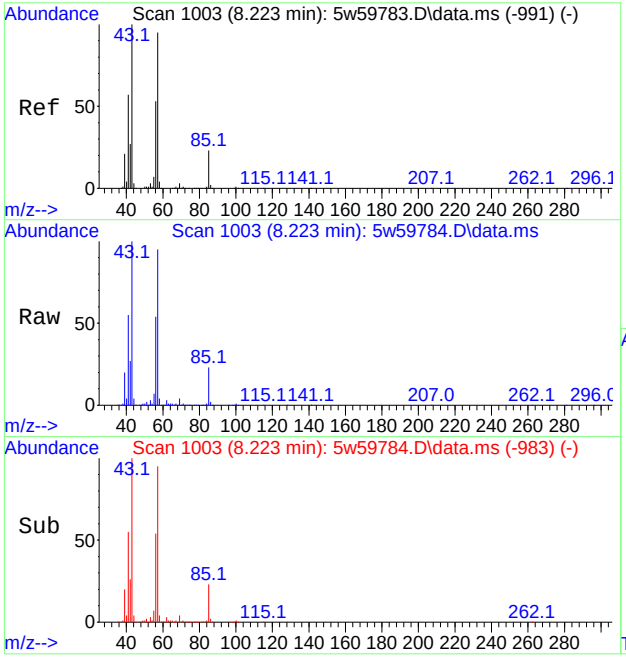


#46
CHLOROFORM
Concen: 18.57 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2134176

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	24.5	0.0	55.2

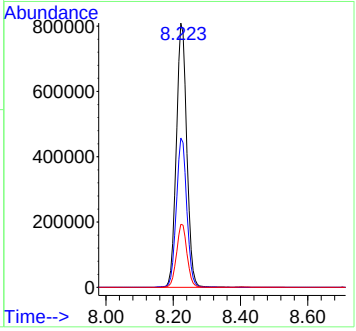


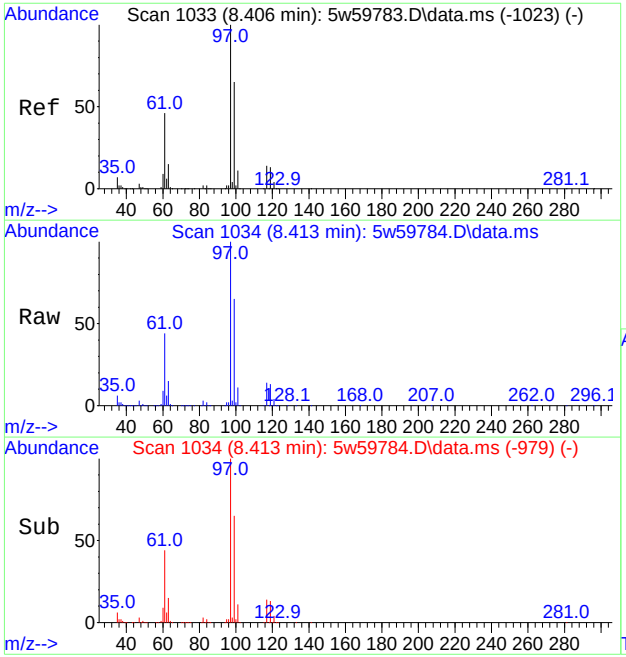


#47
2,4-DIMETHYLPENTANE
Concen: 19.75 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 1747860

Ion	Ratio	Lower	Upper
57	100		
56	56.8	26.5	86.5
85	24.0	0.0	53.8

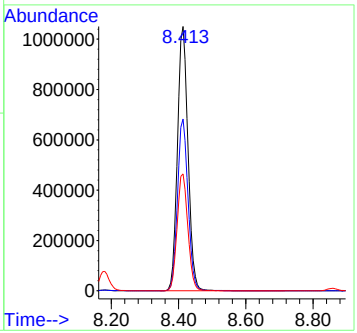


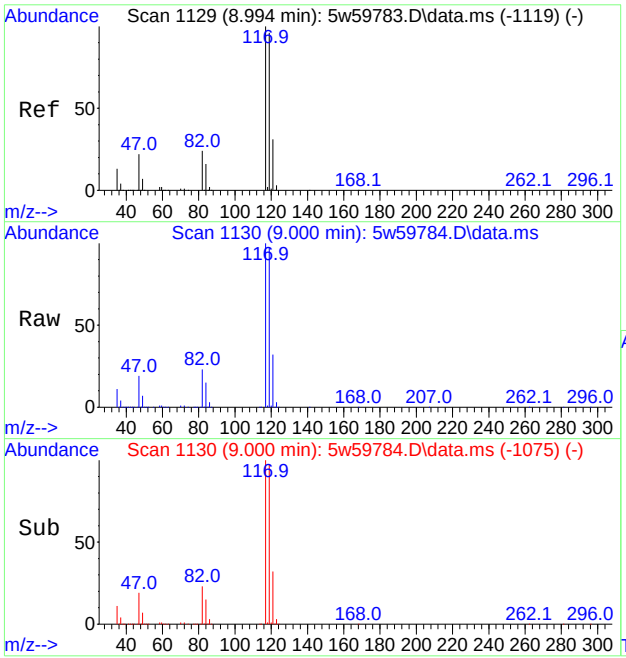


#48
1,1,1-TRICHLOROETHANE
Concen: 18.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 97 Resp: 2289683

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.8	94.8
61	45.3	15.8	75.8

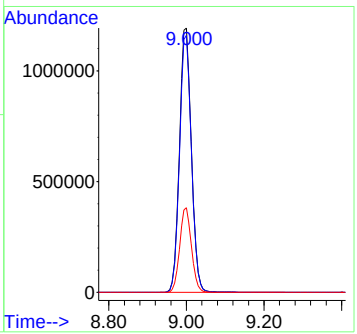


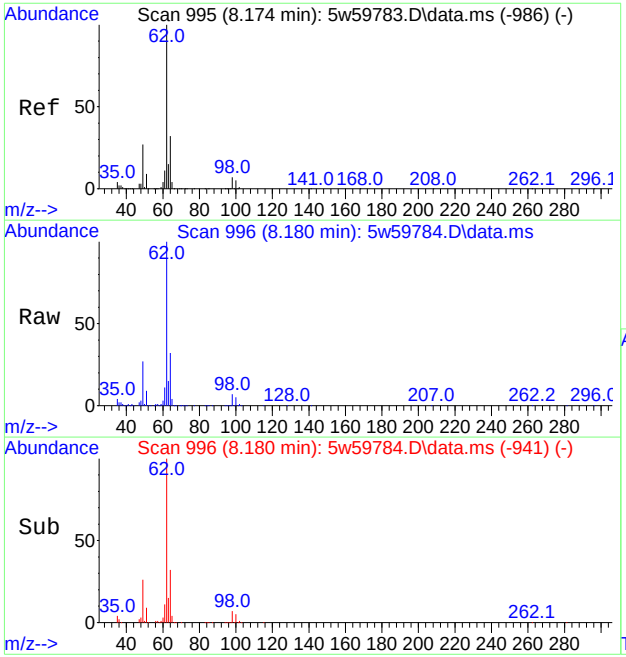


#49
CARBON TETRACHLORIDE
Concen: 18.43 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2555242

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	31.5	1.3	61.3

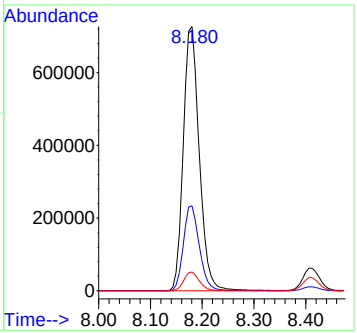


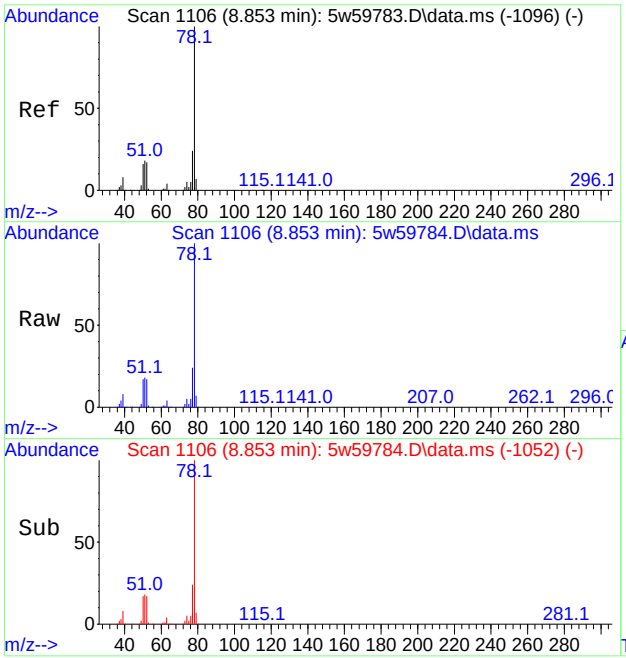


#50
1,2-DICHLOROETHANE
Concen: 19.15 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 62 Resp: 1561332

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.3	62.3
98	7.0	0.0	36.9

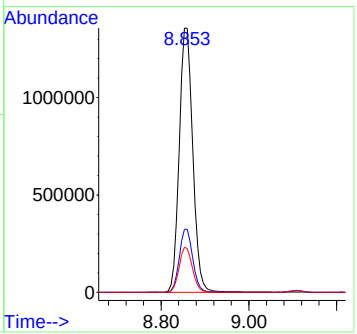


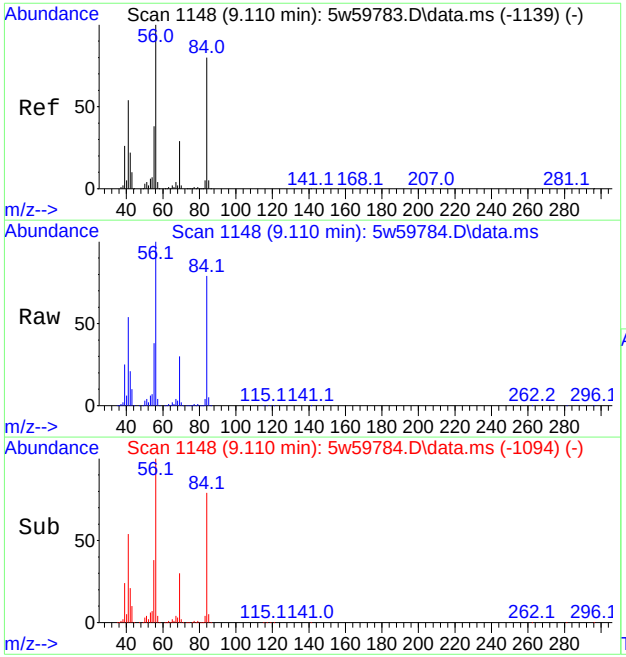


#52
BENZENE
Concen: 22.68 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 78 Resp: 2903342

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

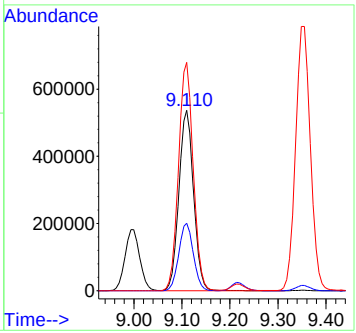


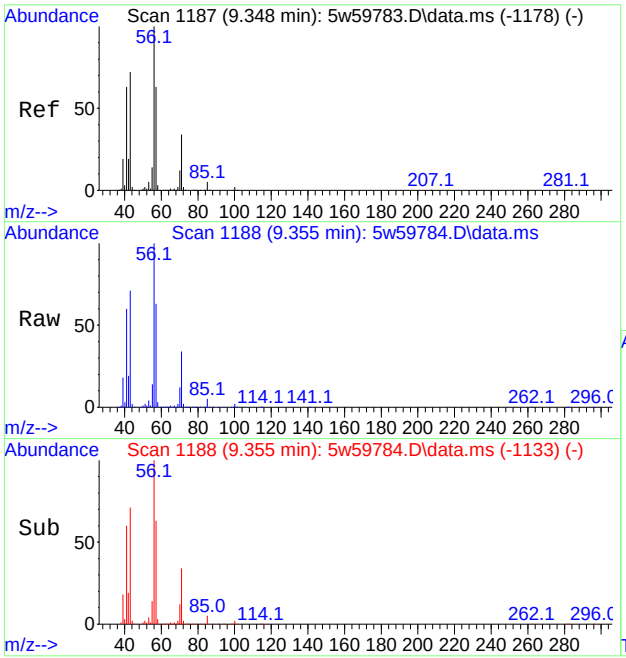


#53
CYCLOHEXANE
Concen: 22.41 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 84 Resp: 1139585

Ion	Ratio	Lower	Upper
84	100		
69	37.2	6.9	66.9
56	126.2	98.2	158.2

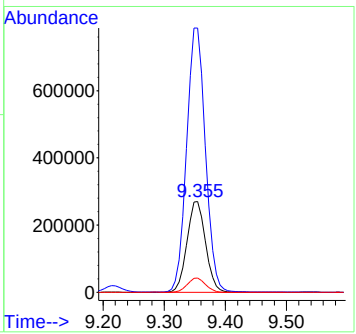


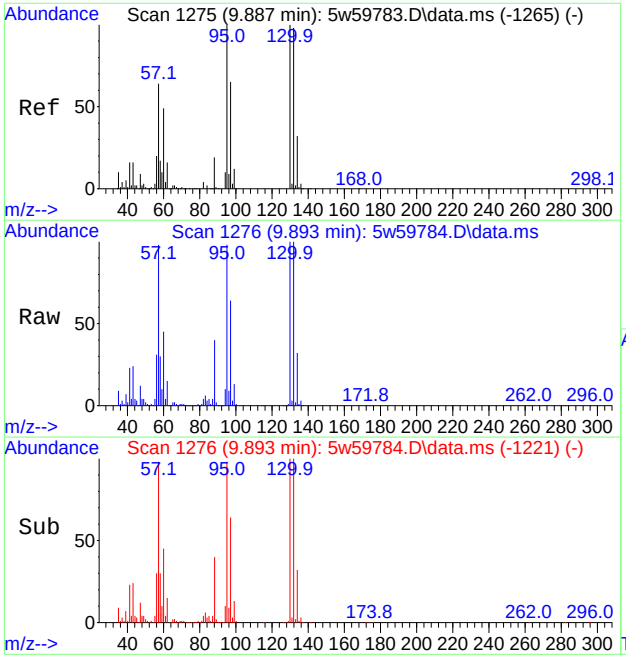


#54
2,3-DIMETHYLPENTANE
Concen: 22.39 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 71 Resp: 573637

Ion	Ratio	Lower	Upper
71	100		
56	294.3	264.6	324.6
85	15.5	0.0	45.3

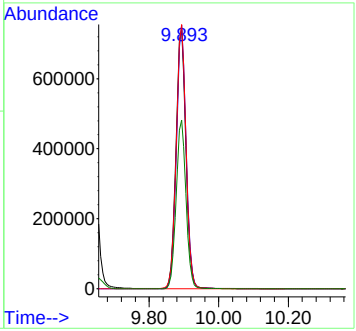


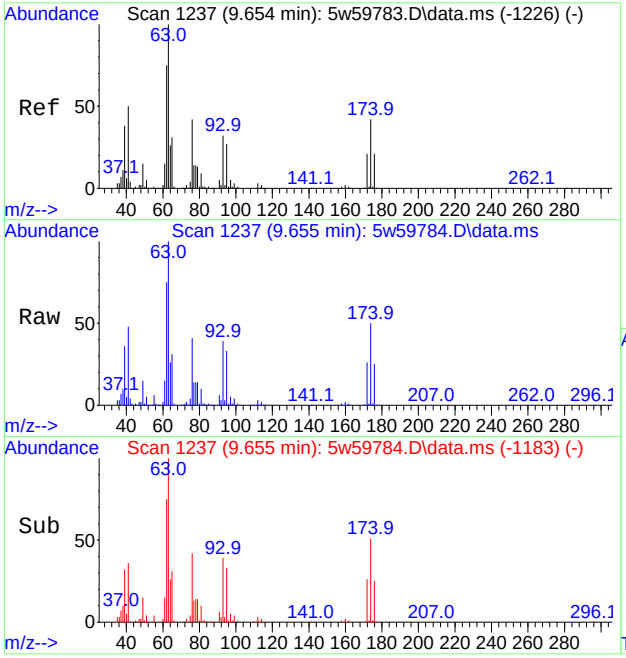


#55
TRICHLOROETHYLENE
Concen: 21.65 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 95 Resp: 1474907

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.3	70.6	130.6
97	64.8	34.6	94.6

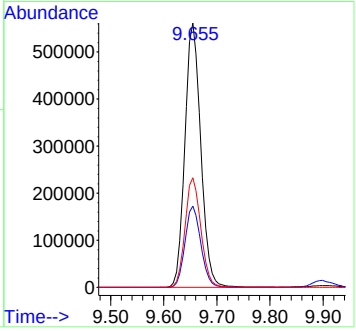


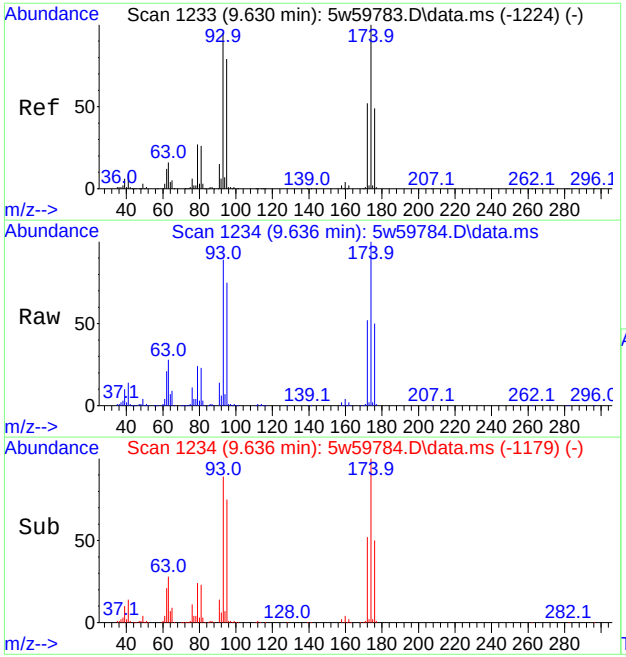


#56
1,2-DICHLOROPROPANE
Concen: 21.61 PPBV
RT: 9.655 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 63 Resp: 1173566

Ion	Ratio	Lower	Upper
63	100		
65	30.7	0.5	60.5
76	41.3	11.5	71.5

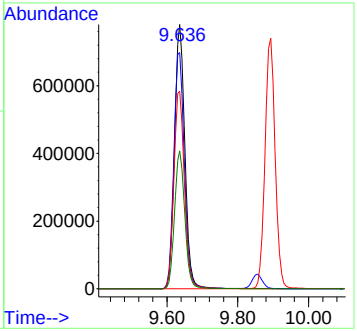


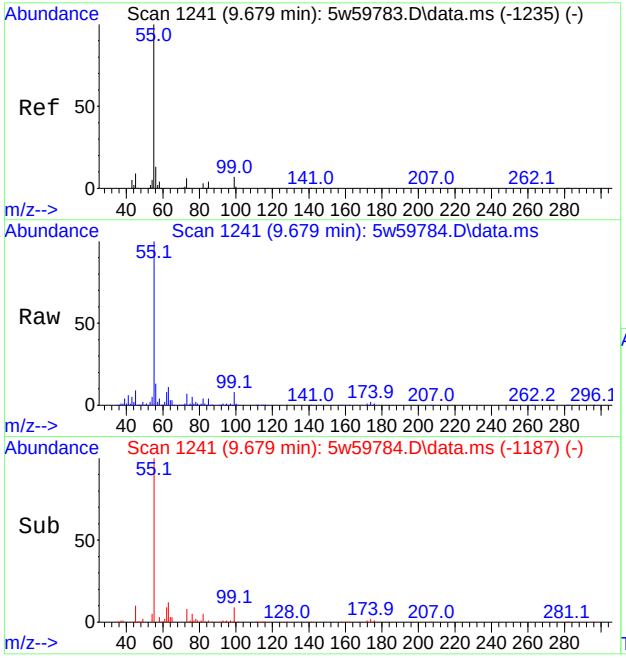


#57
DIBROMOMETHANE
Concen: 21.13 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:174 Resp: 1578012

Ion	Ratio	Lower	Upper
174	100		
93	91.6	65.0	120.6
95	76.8	54.5	101.1
172	52.1	36.3	67.5

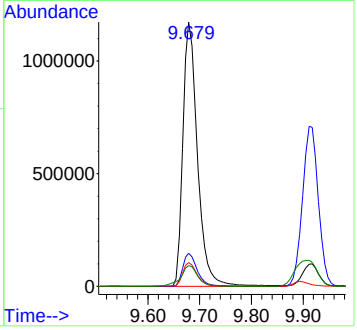


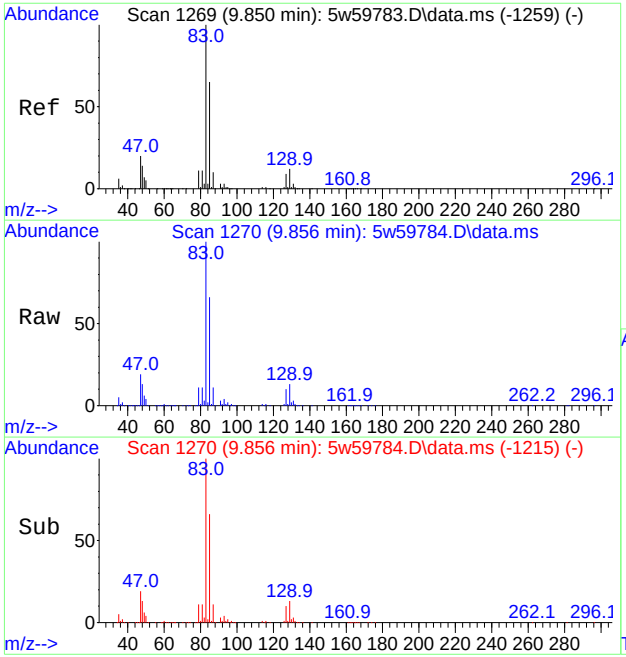


#58
ETHYL ACRYLATE
Concen: 23.37 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 55 Resp: 2306359

Ion	Ratio	Lower	Upper
55	100		
56	12.5	8.6	16.0
45	9.0	6.6	12.2
99	9.3	6.4	12.0

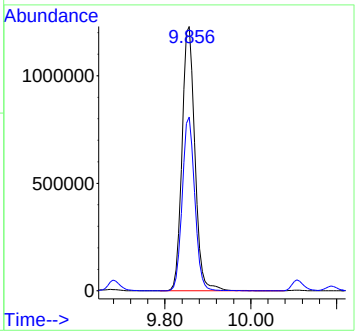


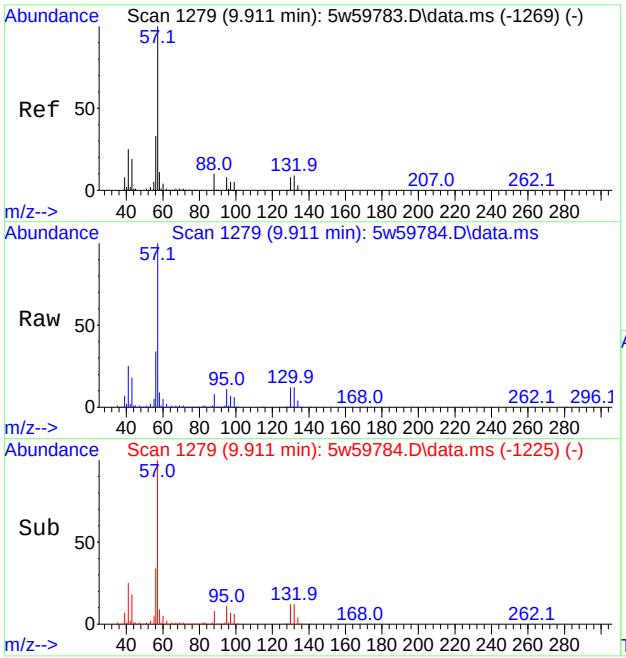


#59
BROMODICHLOROMETHANE
Concen: 21.01 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 2548286

Ion	Ratio	Lower	Upper
83	100		
85	64.1	33.4	93.4

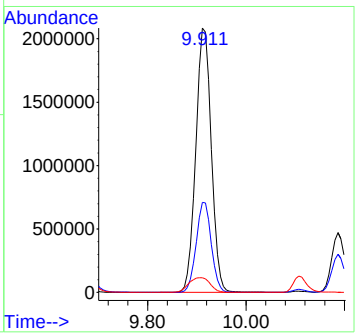


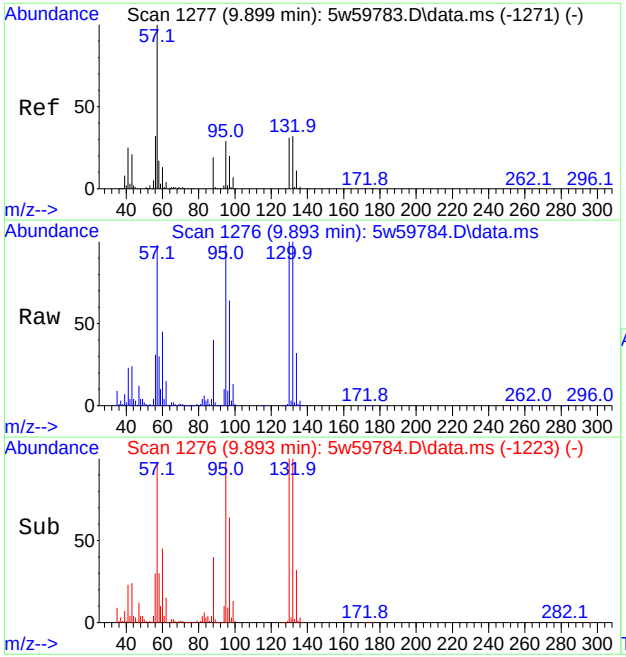


#60
2,2,4-TRIMETHYLPENTANE
Concen: 20.94 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 57 Resp: 4564310

Ion	Ratio	Lower	Upper
57	100		
56	33.1	2.5	62.5
99	7.7	0.0	37.3

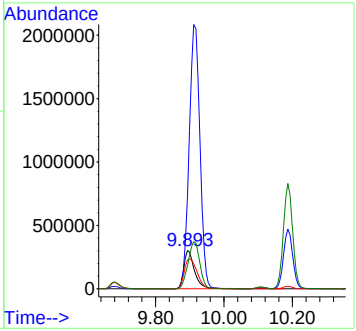


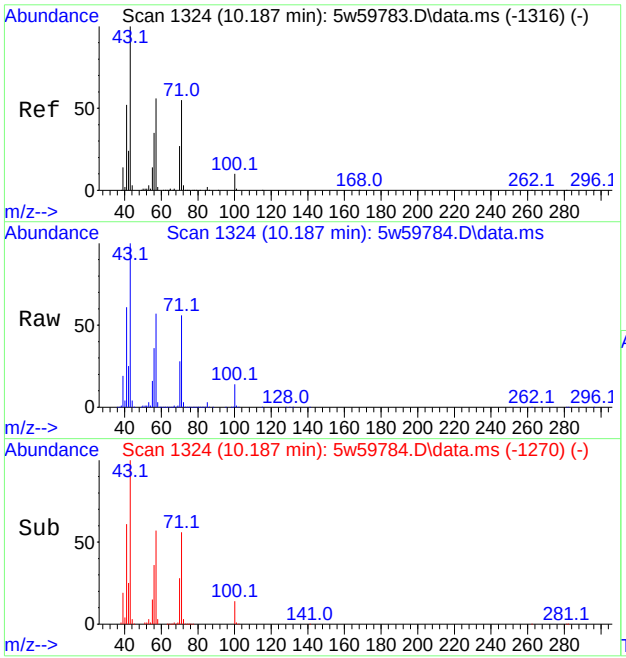


#61
1,4-DIOXANE
Concen: 24.77 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 88 Resp: 653321

Ion	Ratio	Lower	Upper
88	100		
57	243.5	494.2	554.2#
58	75.6	58.9	118.9
43	60.5	78.3	138.3#

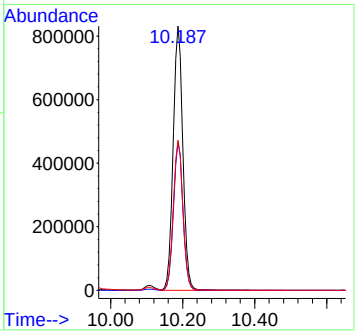


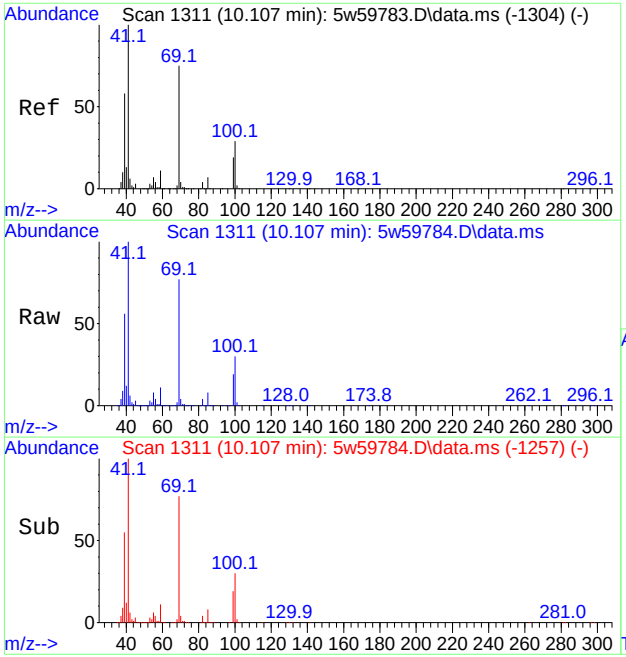


#62
HEPTANE
Concen: 19.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 1555190

Ion	Ratio	Lower	Upper
43	100		
71	55.3	24.5	84.5
57	56.8	26.2	86.2

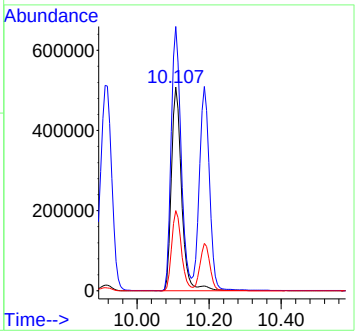


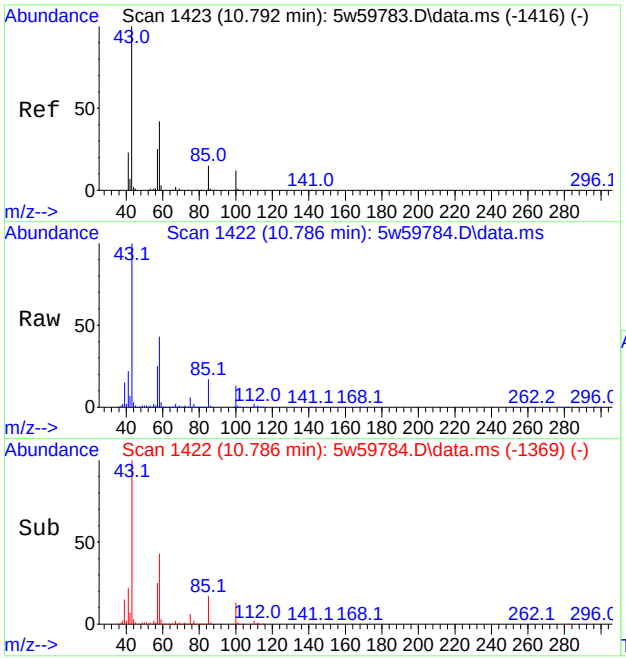


#63
METHYL METHACRYLATE
Concen: 25.22 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1000168

Ion	Ratio	Lower	Upper
69	100		
41	124.8	95.3	155.3
100	37.7	6.3	66.3

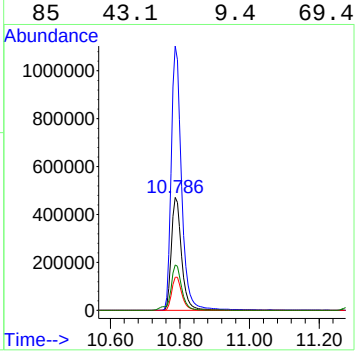


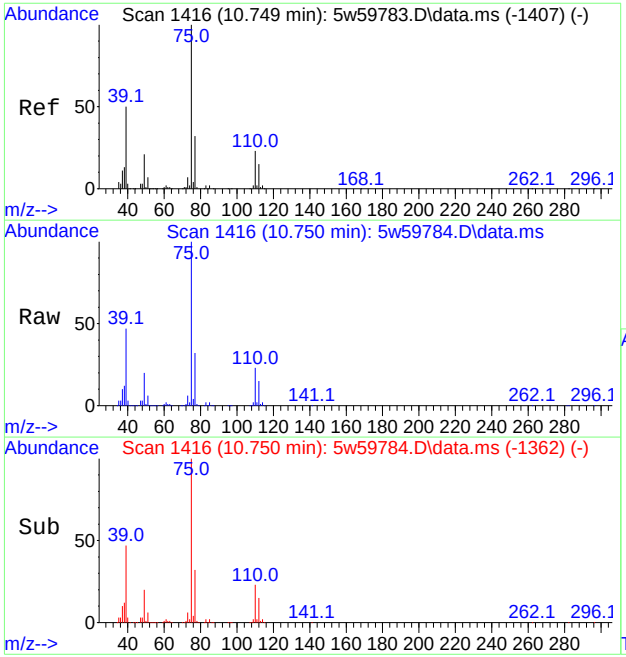


#64
METHYL ISOBUTYL KETONE
Concen: 23.79 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 969468

Ion	Ratio	Lower	Upper
58	100		
43	234.9	209.2	269.2
100	29.7	0.0	58.8
85	43.1	9.4	69.4

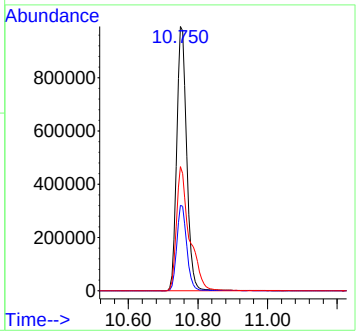


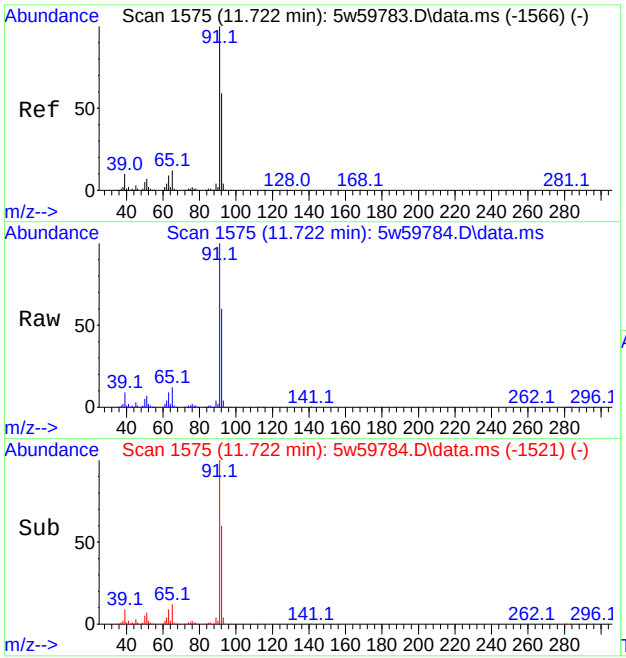


#65
cis-1,3-DICHLOROPROPENE
Concen: 23.56 PPBV
RT: 10.750 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1985103

Ion	Ratio	Lower	Upper
75	100		
77	32.3	2.2	62.2
39	61.2	34.3	94.3

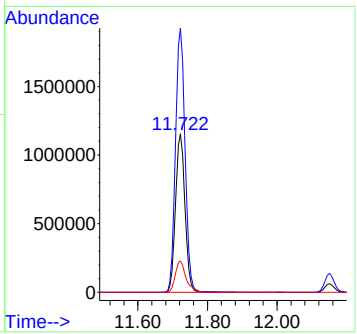


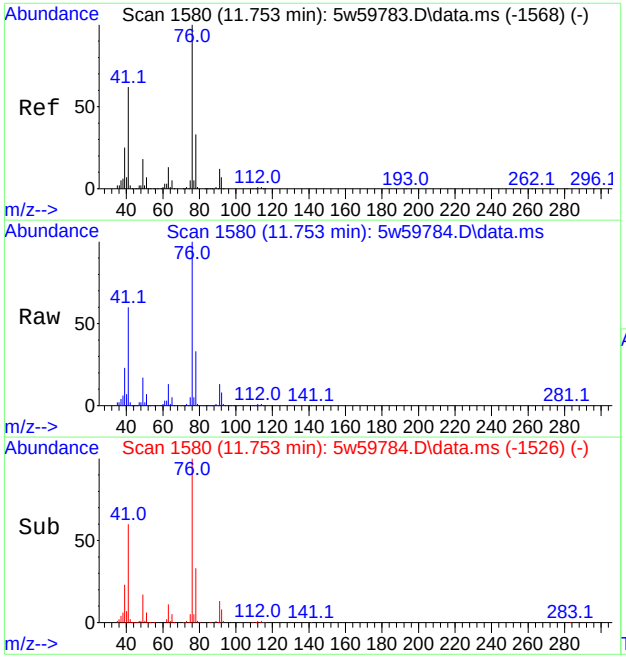


#66
TOLUENE
Concen: 23.93 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 92 Resp: 2187710

Ion	Ratio	Lower	Upper
92	100		
91	168.7	140.1	200.1
65	22.8	0.0	53.1

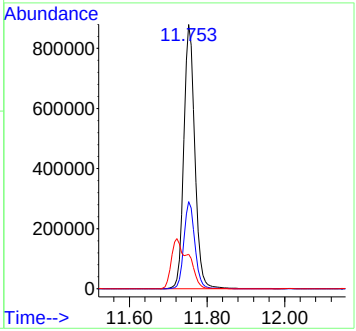


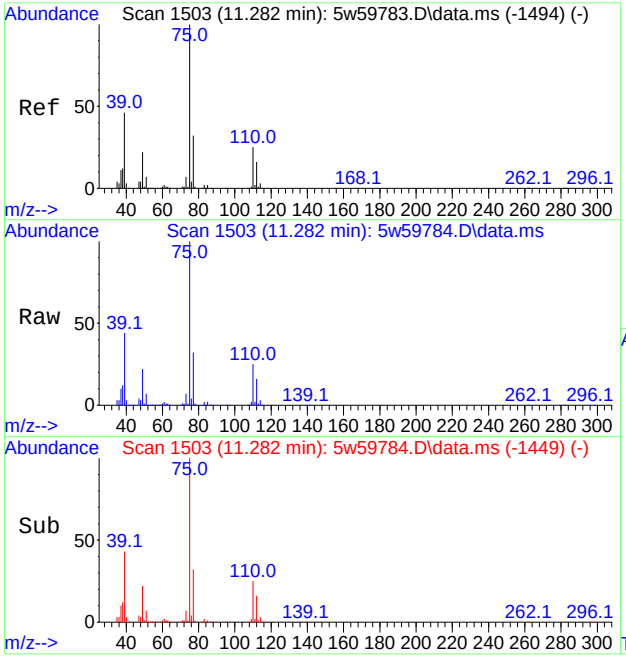


#67
1,3-DICHLOROPROPANE
Concen: 22.65 PPBV m
RT: 11.753 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 76 Resp: 1738240

Ion	Ratio	Lower	Upper
76	100		
78	33.0	23.2	43.0
63	10.3	7.1	13.1

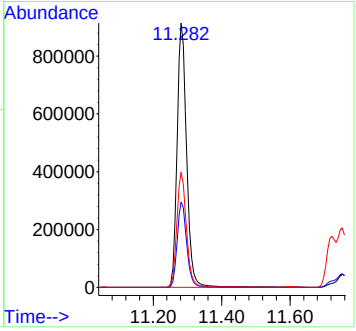


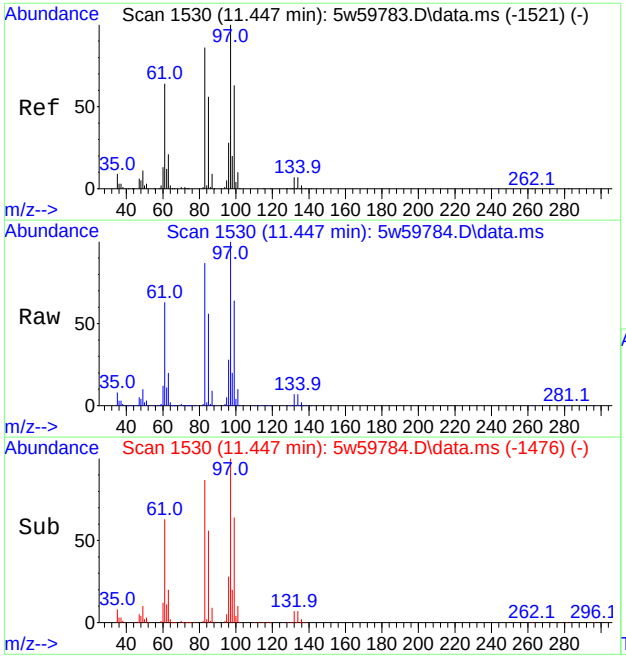


#68
trans-1,3-DICHLOROPROPENE
Concen: 22.91 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 1772531

Ion	Ratio	Lower	Upper
75	100		
77	32.4	1.6	61.6
39	44.2	16.1	76.1

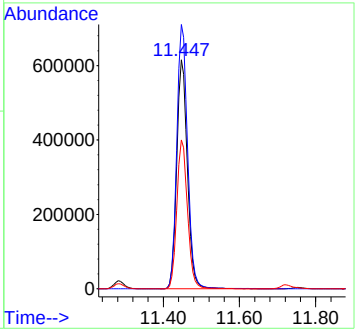


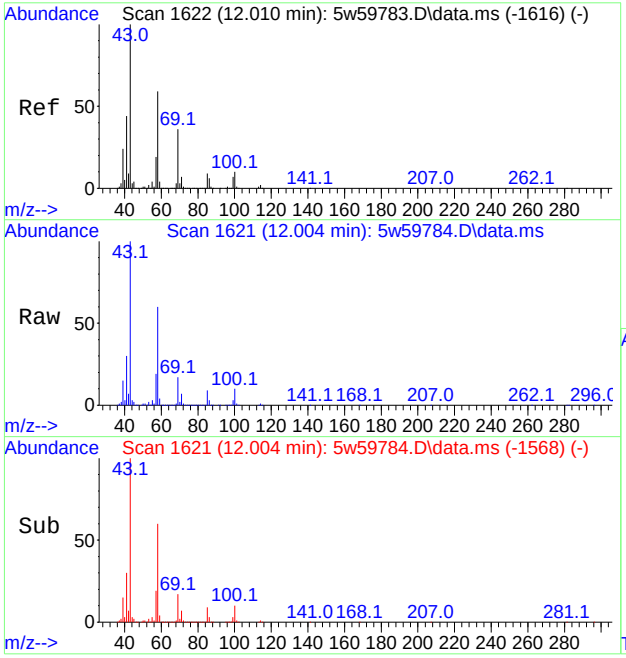


#69
1,1,2-TRICHLOROETHANE
Concen: 23.91 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 1196566

Ion	Ratio	Lower	Upper
83	100		
97	116.3	86.3	146.3
85	65.2	35.3	95.3

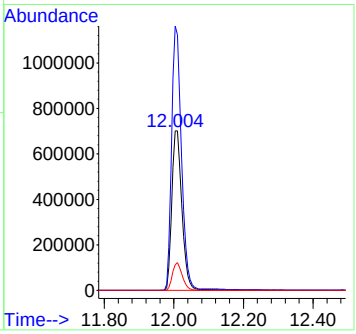


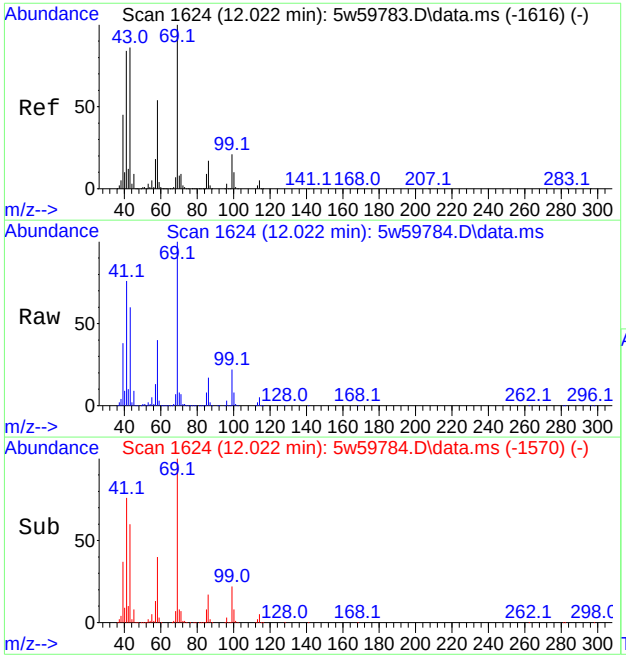


#71
2-HEXANONE
Concen: 25.09 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 58 Resp: 1425280

Ion	Ratio	Lower	Upper
58	100		
43	161.8	137.2	197.2
100	17.1	0.0	46.9

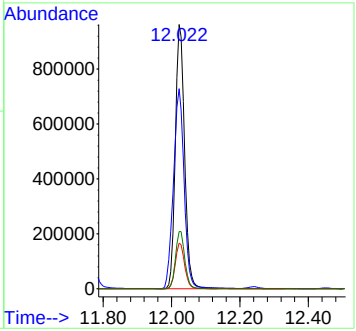


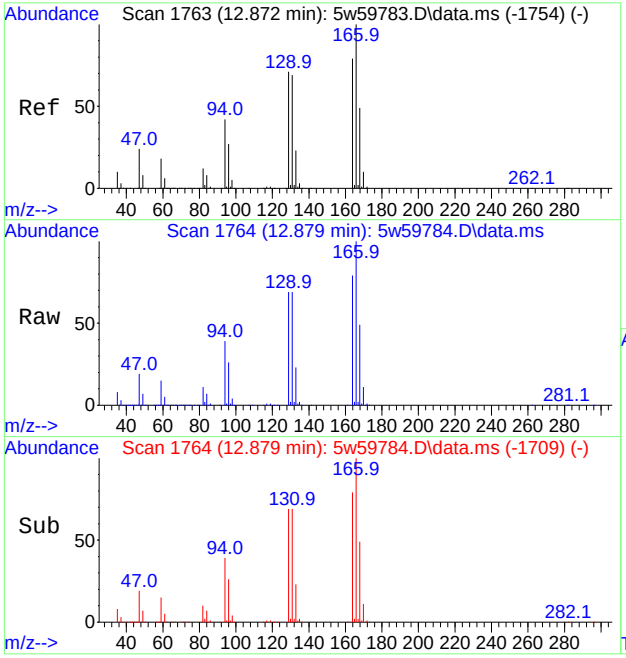


#72
ETHYL METHACRYLATE
Concen: 25.28 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 69 Resp: 1817206

Ion	Ratio	Lower	Upper
69	100		
41	87.2	64.0	119.0
86	17.4	12.0	22.4
99	21.8	15.0	27.8

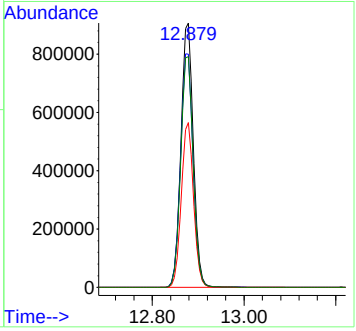


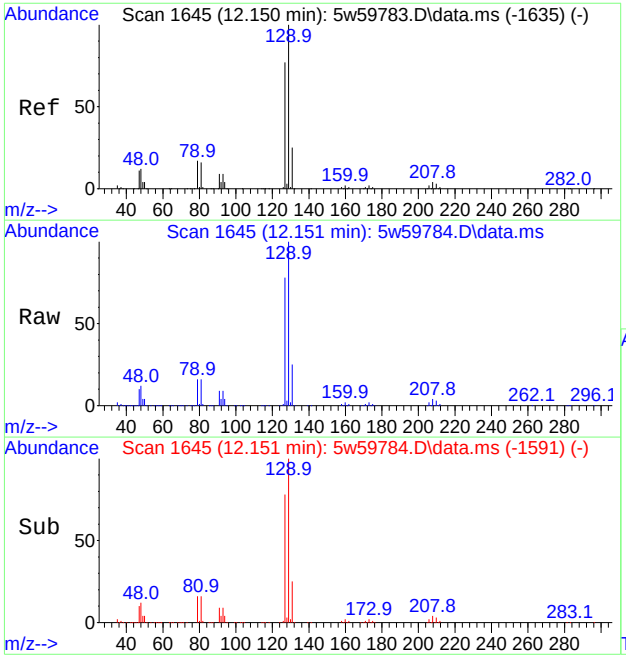


#73
TETRACHLOROETHYLENE
Concen: 20.29 PPBV
RT: 12.879 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:164 Resp: 1702539

Ion	Ratio	Lower	Upper
164	100		
129	89.5	59.7	119.7
168	62.0	32.2	92.2
131	88.0	57.8	117.8

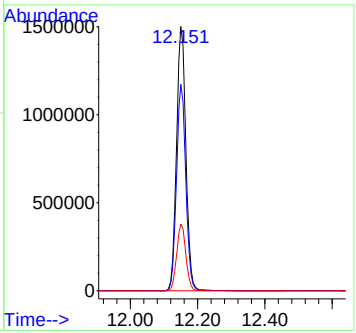


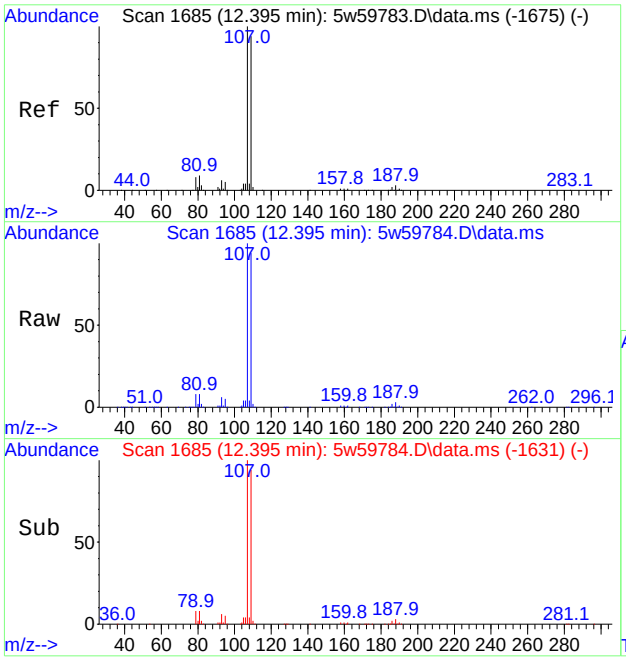


#74
DIBROMOCHLOROMETHANE
Concen: 20.55 PPBV
RT: 12.151 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:129 Resp: 2900352

Ion	Ratio	Lower	Upper
129	100		
127	77.8	47.1	107.1
131	25.0	0.0	54.5

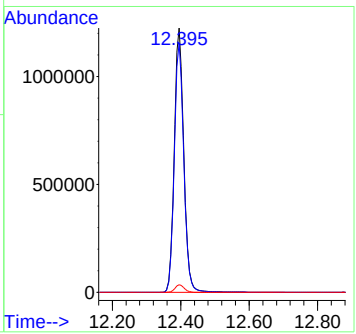


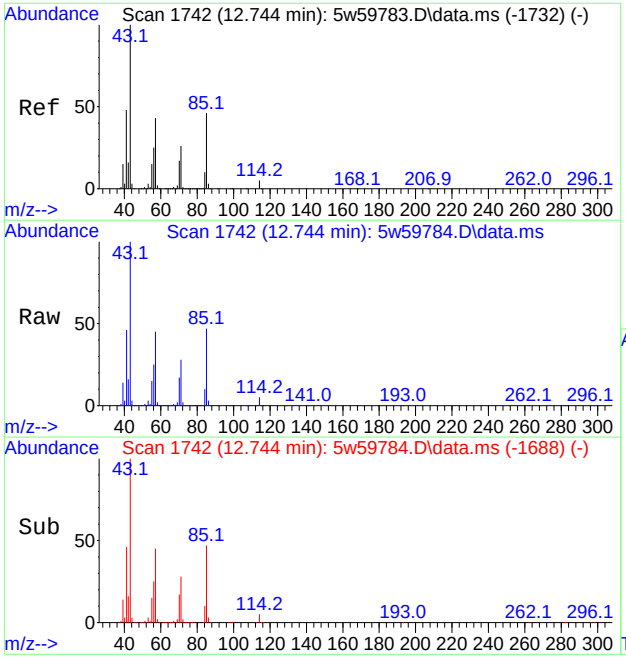


#75
1,2-DIBROMOETHANE
Concen: 22.95 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:107 Resp: 2366337

Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.8	124.8
188	2.8	0.0	32.8

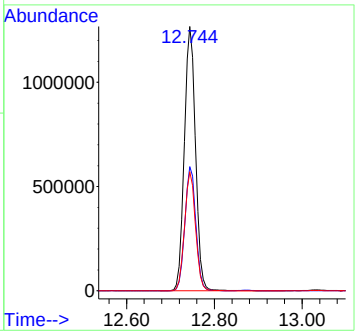


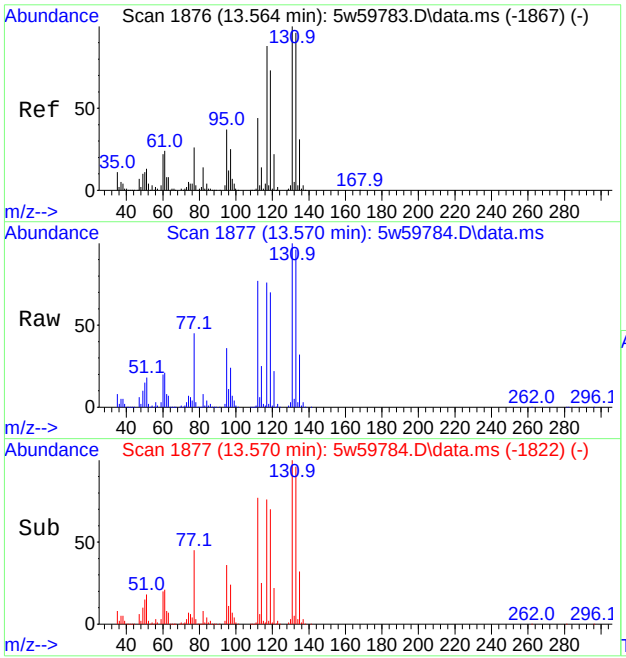


#76
OCTANE
Concen: 18.84 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2238080

Ion	Ratio	Lower	Upper
43	100		
85	46.2	14.6	74.6
57	44.3	13.7	73.7

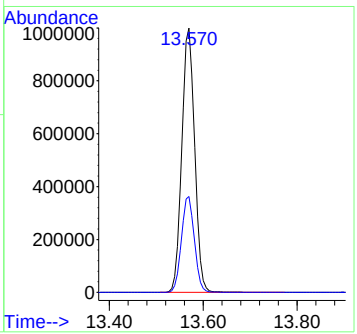


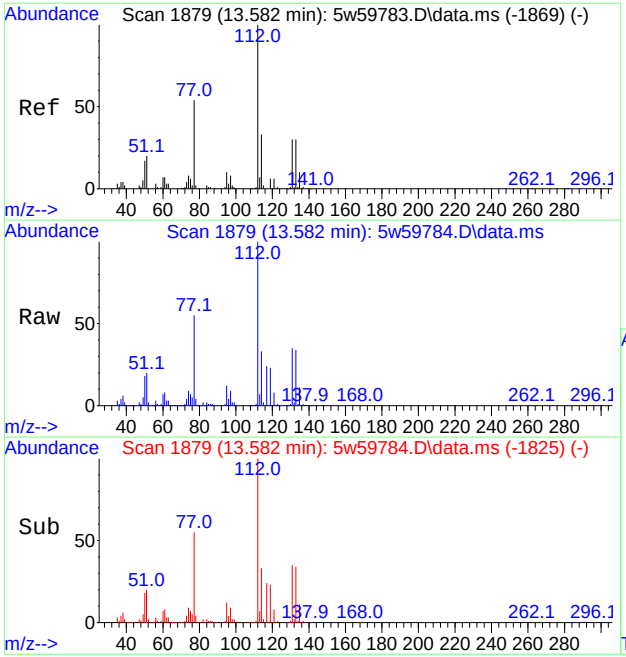


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.52 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:131 Resp: 1899714

Ion	Ratio	Lower	Upper
131	100		
95	36.5	6.5	66.5

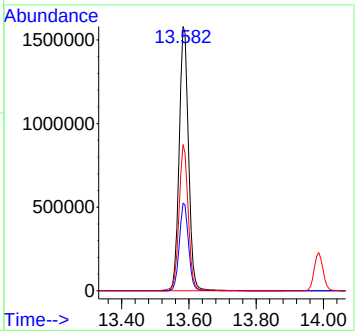


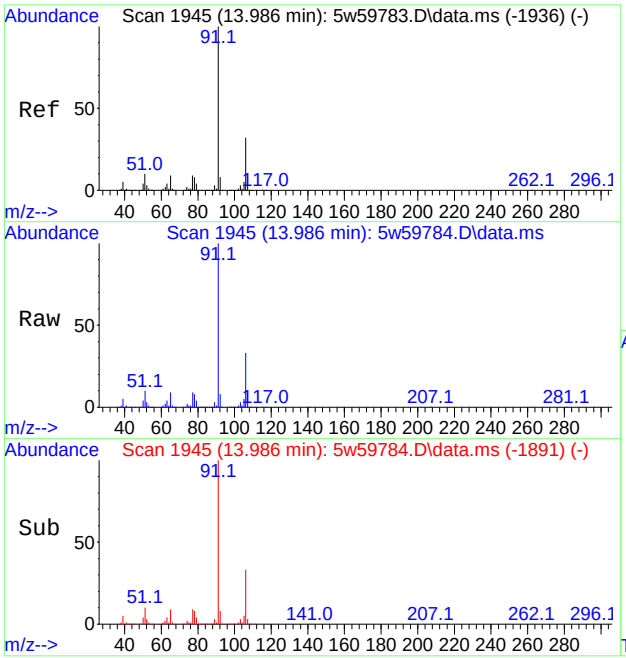


#78
CHLOROBENZENE
Concen: 20.02 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:112 Resp: 3046547

Ion	Ratio	Lower	Upper
112	100		
114	33.0	2.6	62.6
77	55.1	25.4	85.4

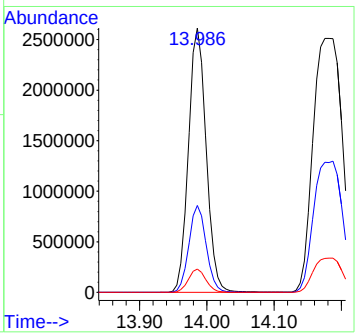


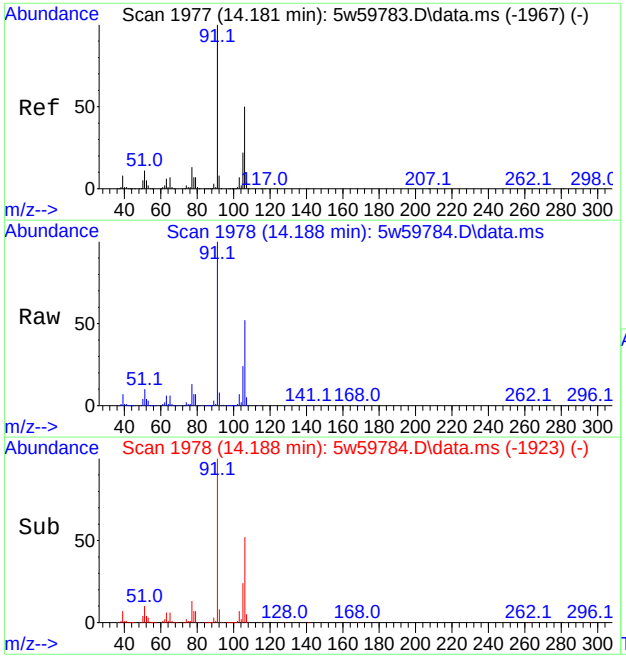


#79
ETHYLBENZENE
Concen: 22.00 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4800136

Ion	Ratio	Lower	Upper
91	100		
106	32.3	1.3	61.3
77	8.7	0.0	38.6

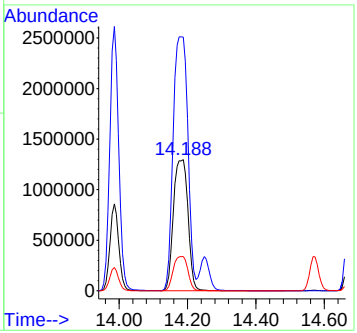


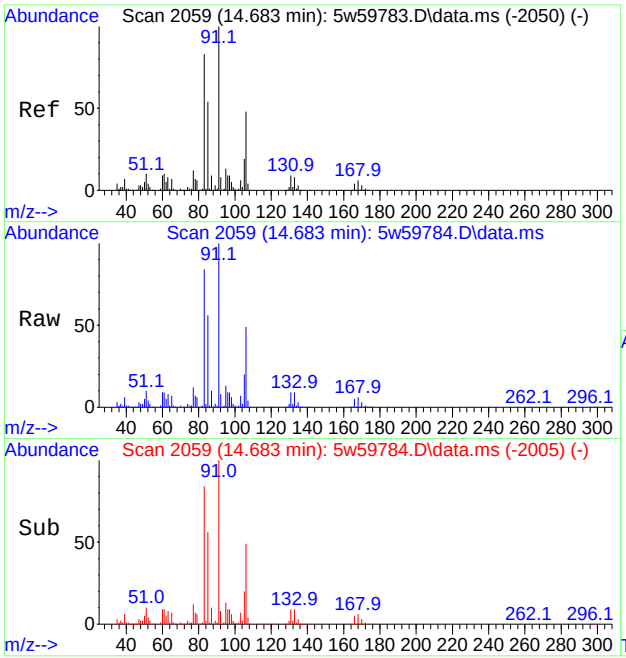


#80
m,p-XYLENE
Concen: 46.33 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 3838940

Ion	Ratio	Lower	Upper
106	100		
91	193.3	171.0	231.0
77	26.1	0.0	56.7

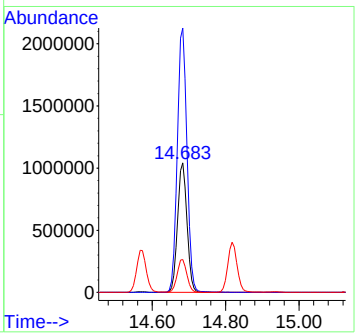


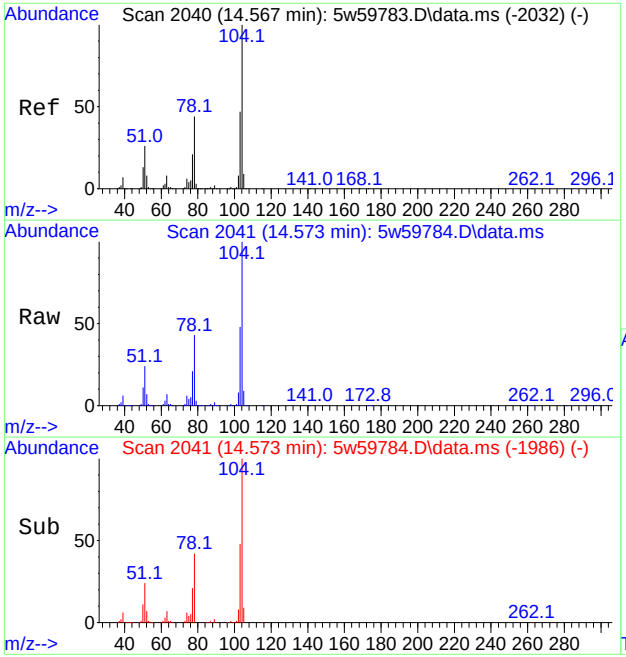


#81
o-XYLENE
Concen: 24.57 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:106 Resp: 1866956

Ion	Ratio	Lower	Upper
106	100		
91	207.5	181.6	241.6
77	26.0	0.0	56.6

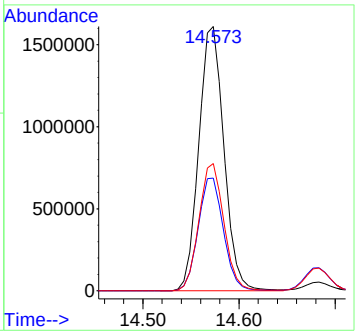


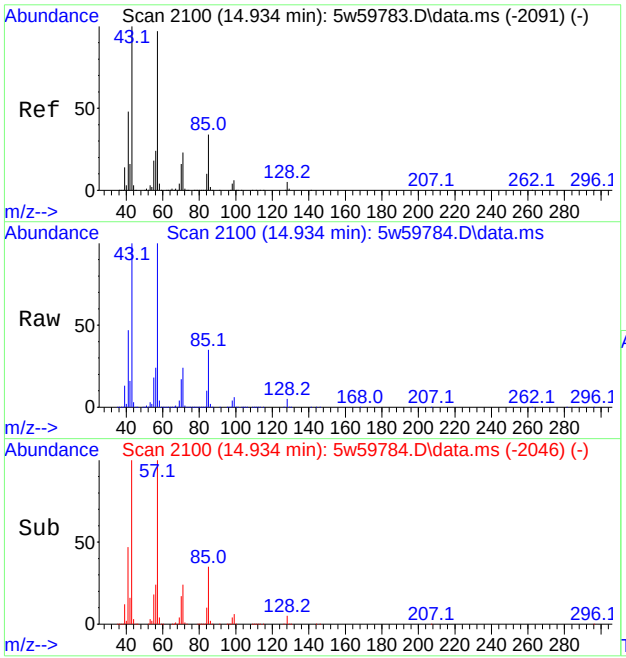


#82
STYRENE
Concen: 25.25 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:104 Resp: 2939414

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.7	17.2	77.2

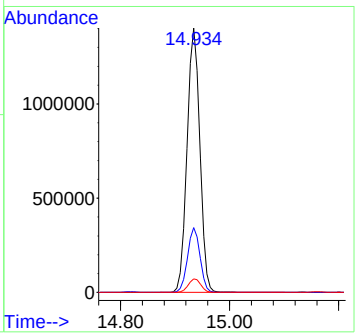


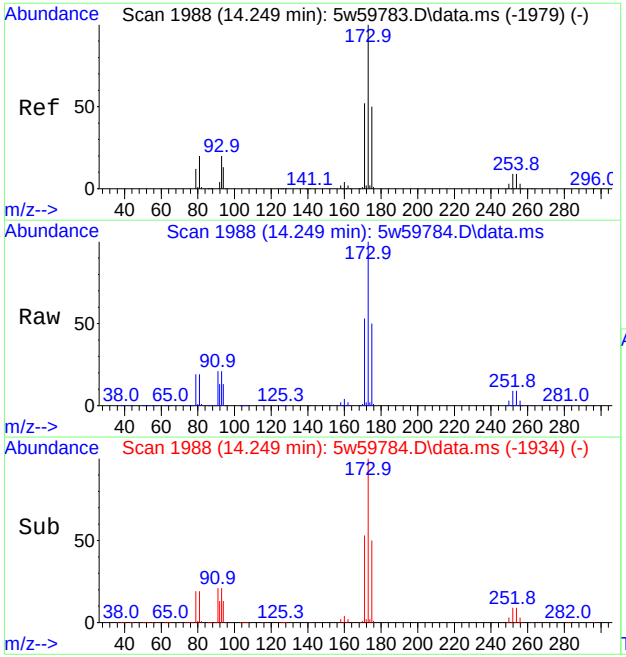


#83
NONANE
Concen: 19.27 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 43 Resp: 2271246

Ion	Ratio	Lower	Upper
43	100		
71	23.9	0.0	52.7
128	5.0	0.0	34.7

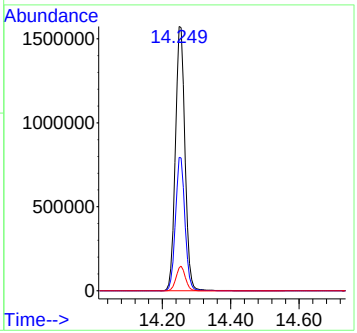


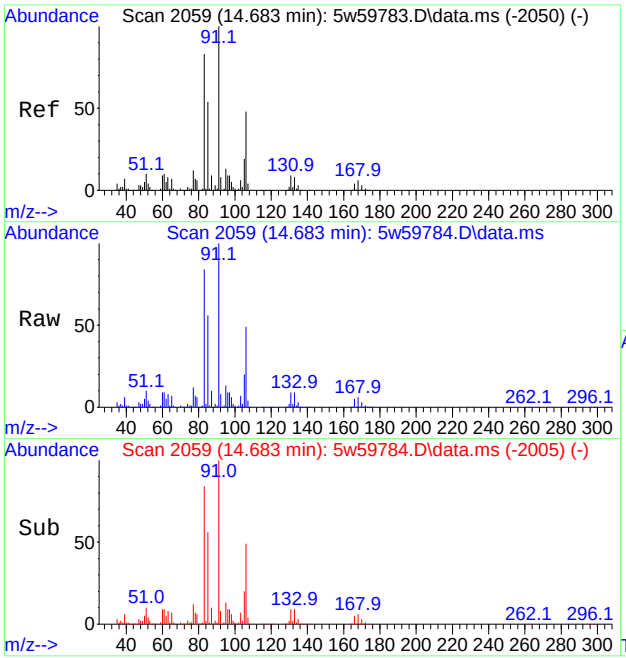


#84
BROMOFORM
Concen: 21.19 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:173 Resp: 3083788

Ion	Ratio	Lower	Upper
173	100		
175	49.9	19.6	79.6
254	9.1	0.0	39.0

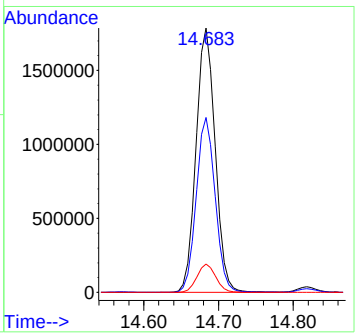


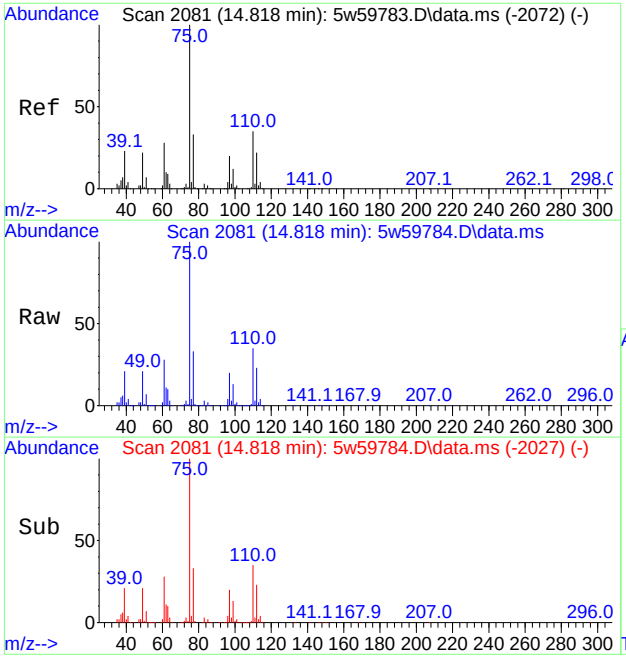


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 23.67 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 83 Resp: 3171683

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.2	95.2
131	10.5	0.0	40.3

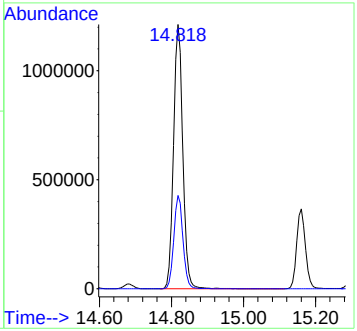


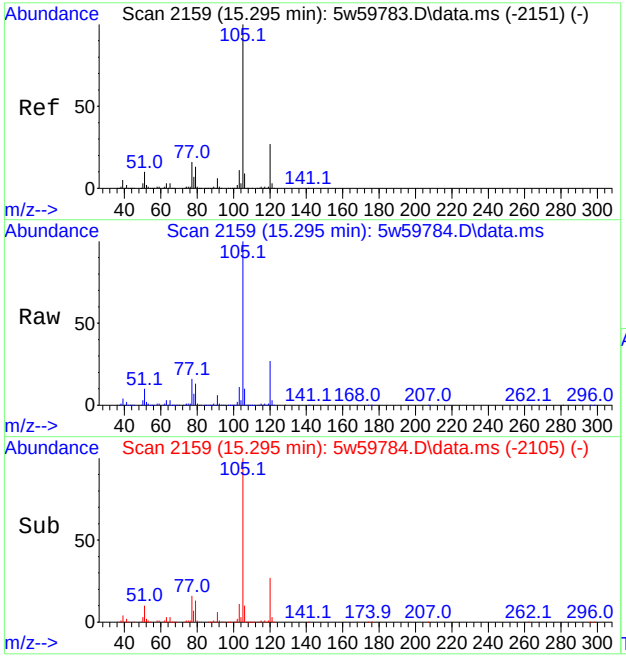


#87
1,2,3-TRICHLOROPROPANE
Concen: 19.01 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 75 Resp: 2166410

Ion	Ratio	Lower	Upper
75	100		
110	35.1	4.4	64.4

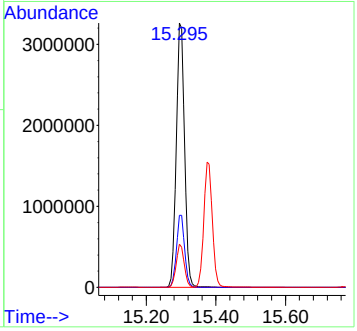


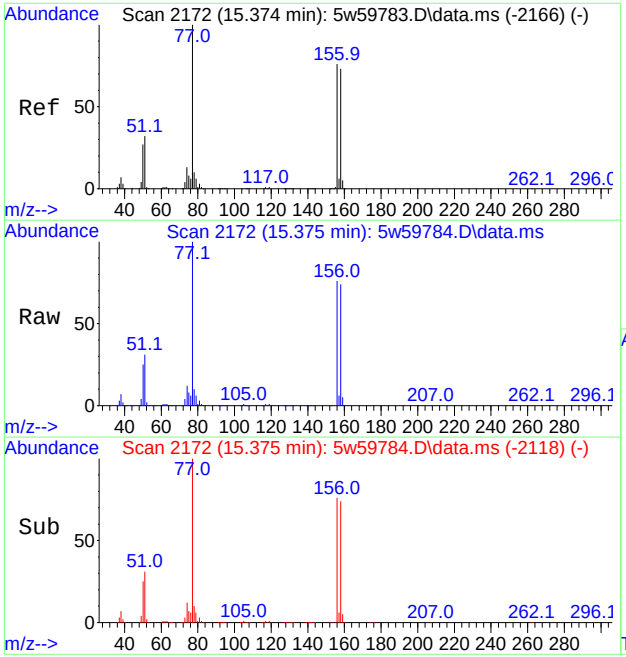


#88
ISOPROPYLBENZENE
Concen: 21.38 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5426205

Ion	Ratio	Lower	Upper
105	100		
120	26.8	0.0	56.0
77	15.7	0.0	45.6

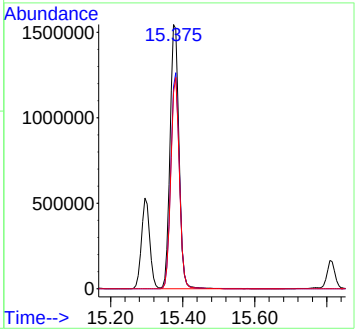


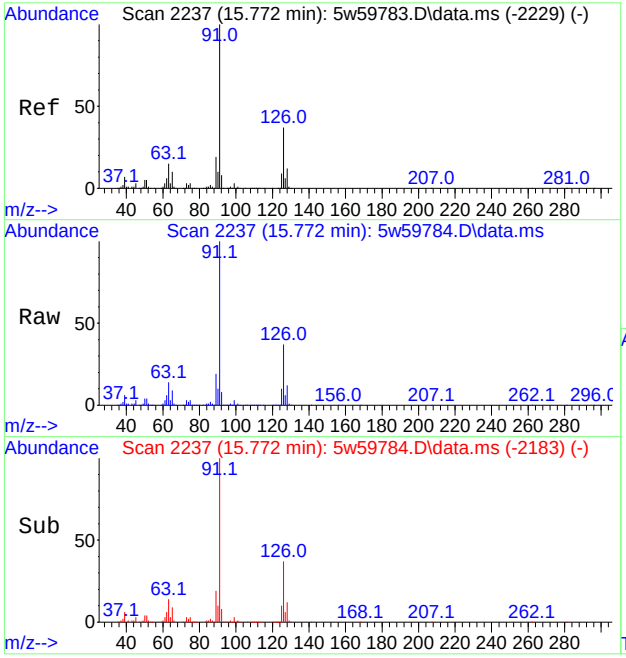


#89
BROMOBENZENE
Concen: 19.84 PPBV
RT: 15.375 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 77 Resp: 2635582

Ion	Ratio	Lower	Upper
77	100		
156	79.3	54.9	101.9
158	77.4	53.5	99.3

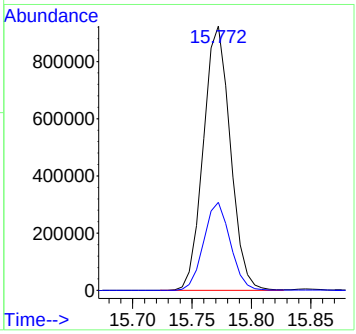


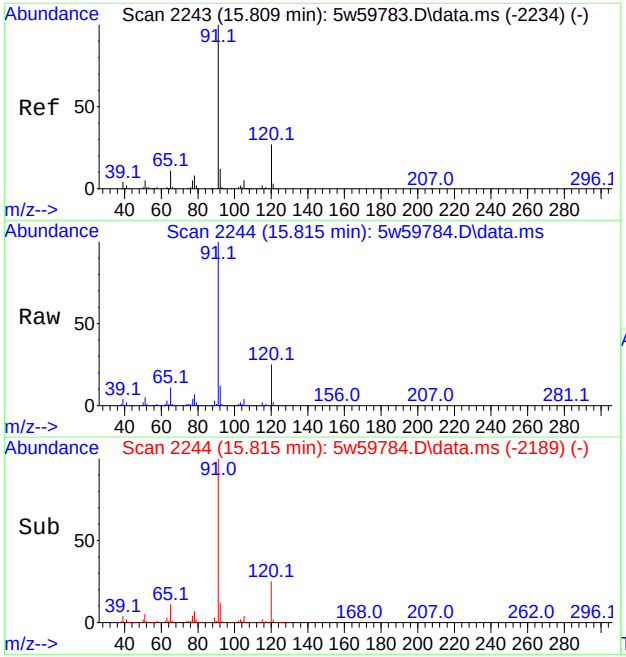


#90
2-CHLOROTOLUENE
Concen: 21.55 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:126 Resp: 1458347

Ion	Ratio	Lower	Upper
126	100		
128	33.0	2.7	62.7

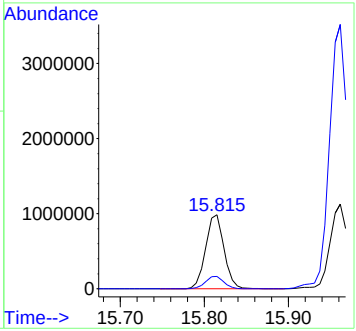


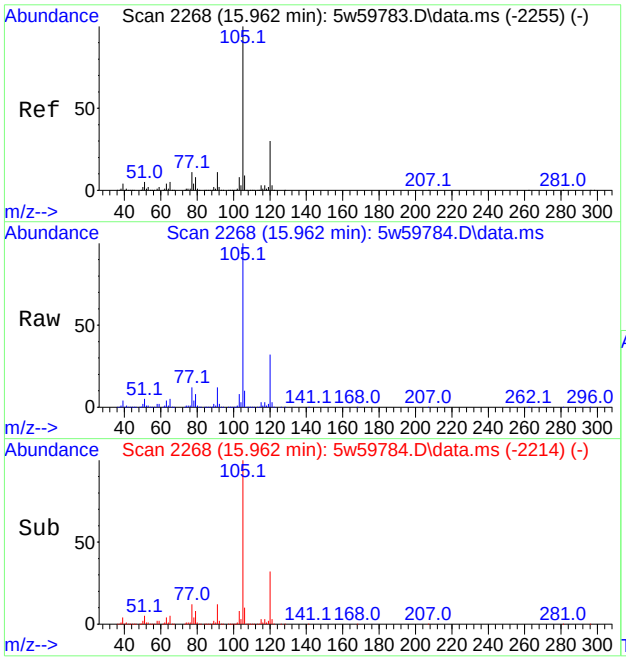


#91
n-PROPYLBENZENE
Concen: 22.21 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:120 Resp: 1498983

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

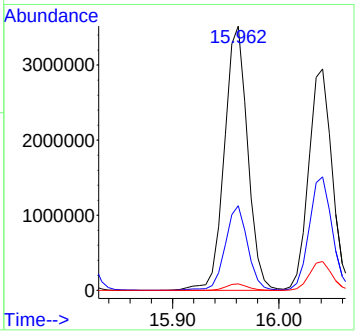


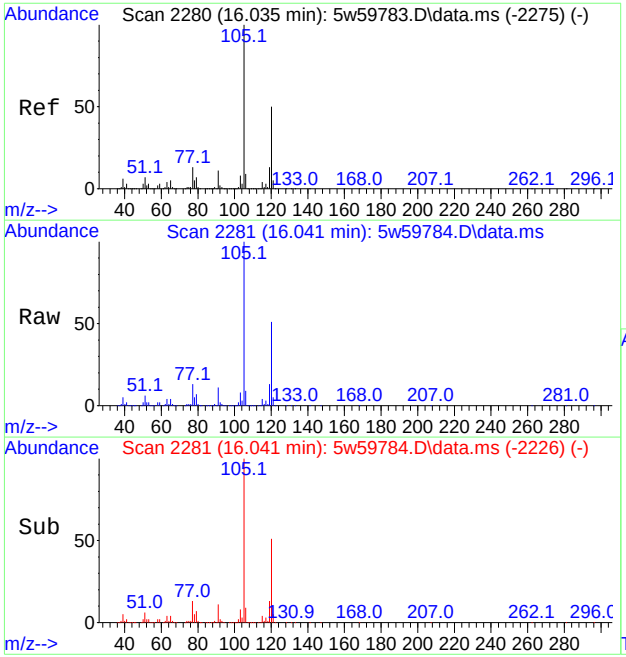


#92
4-ETHYLTOLUENE
Concen: 23.50 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 5359201

Ion	Ratio	Lower	Upper
105	100		
120	30.9	0.0	59.9
119	2.4	0.0	32.3

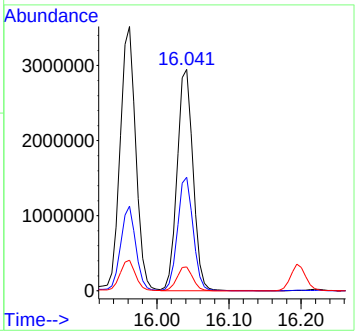


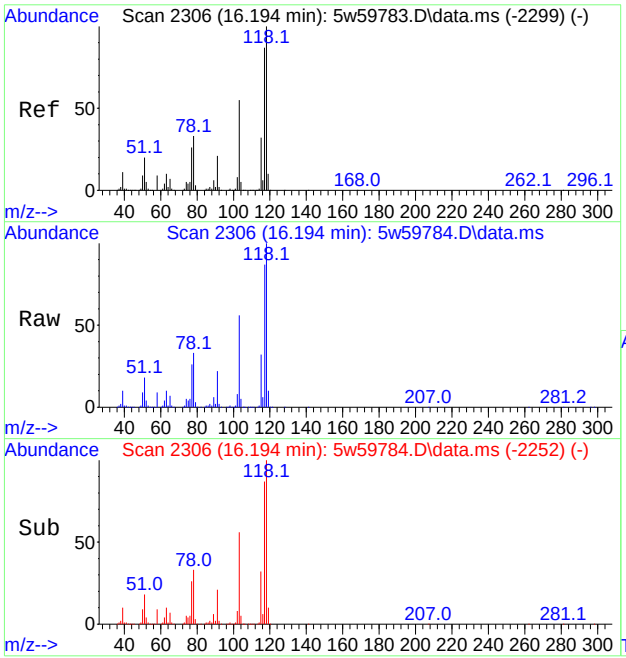


#93
1,3,5-TRIMETHYLBENZENE
Concen: 21.37 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4517483

Ion	Ratio	Lower	Upper
105	100		
120	50.2	19.4	79.4
91	10.8	0.0	40.8

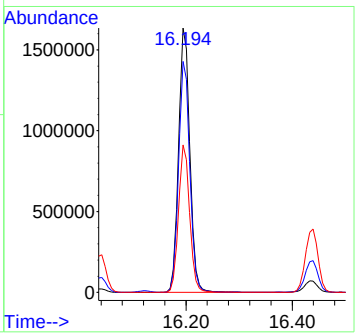


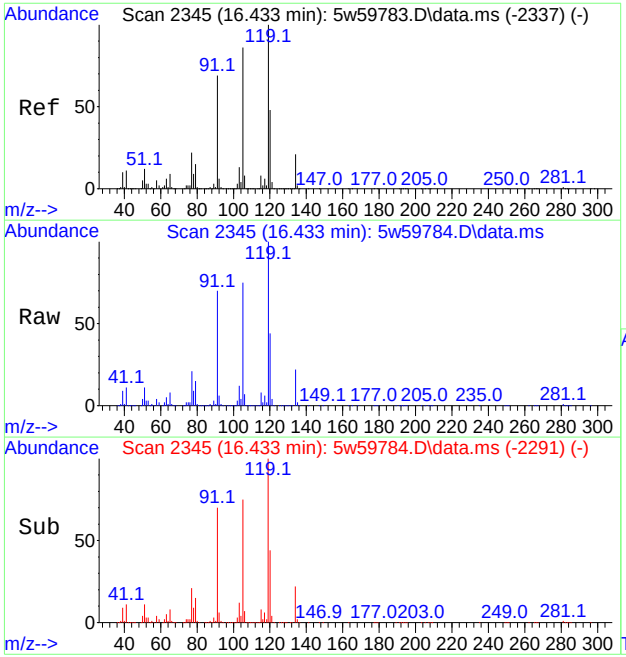


#94
ALPHA-METHYLSTYRENE
Concen: 23.73 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:118 Resp: 2401651

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.1	38.6	71.8

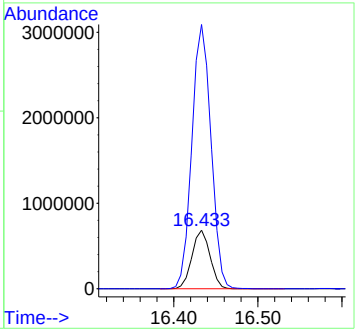


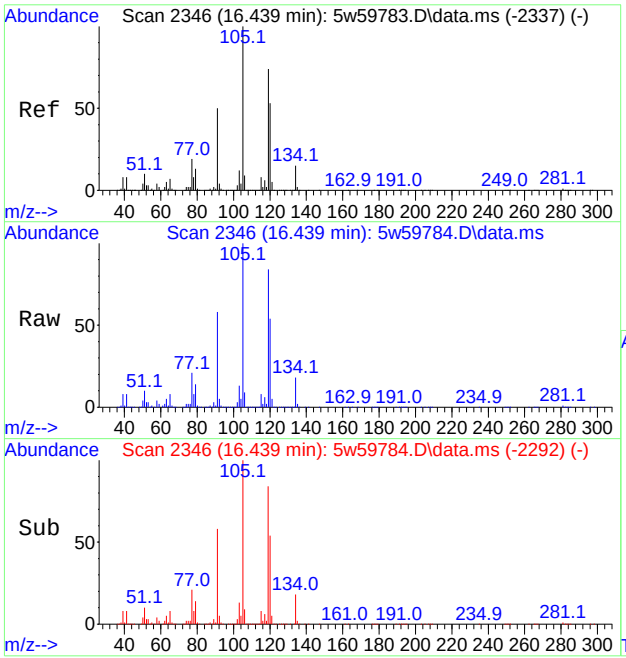


#95
tert-BUTYLBENZENE
Concen: 23.44 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1027177

Ion	Ratio	Lower	Upper
134	100		
119	476.8	459.3	519.3

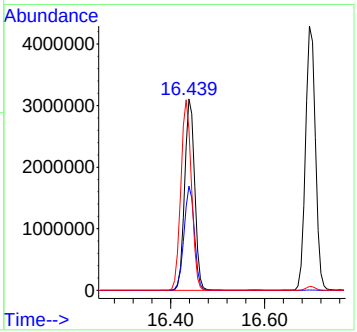


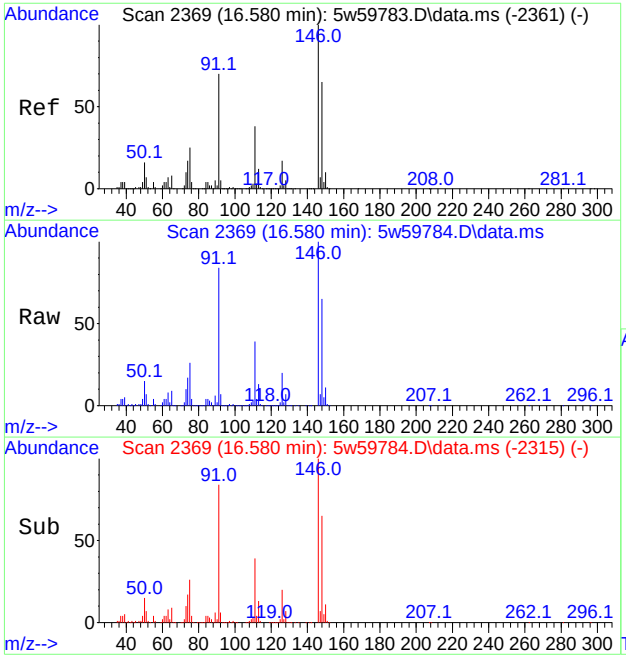


#96
1,2,4-TRIMETHYLBENZENE
Concen: 22.68 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4619537

Ion	Ratio	Lower	Upper
105	100		
120	56.6	25.7	85.7
119	106.0	75.7	135.7

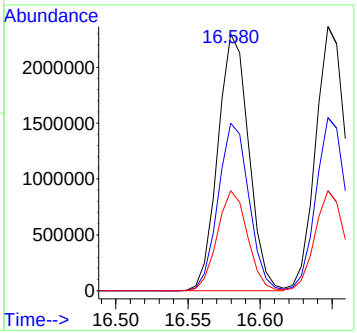


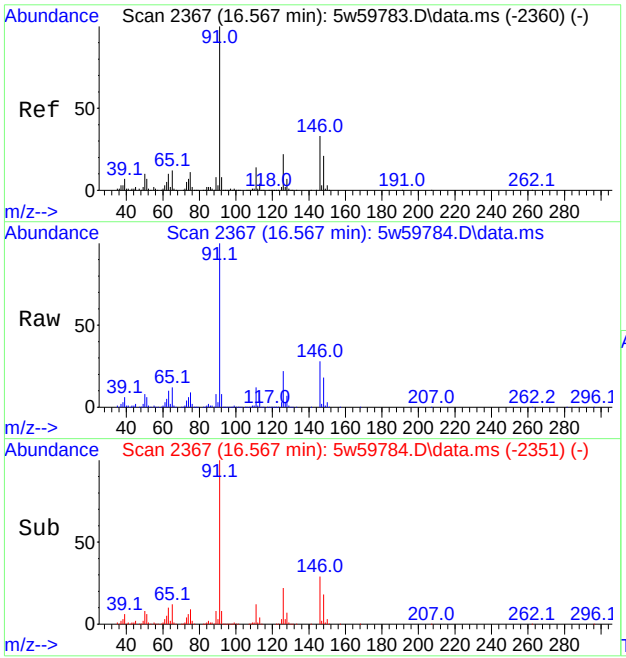


#97
m-DICHLOROBENZENE
Concen: 21.01 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3436542

Ion	Ratio	Lower	Upper
146	100		
148	65.0	34.8	94.8
111	38.3	8.2	68.2

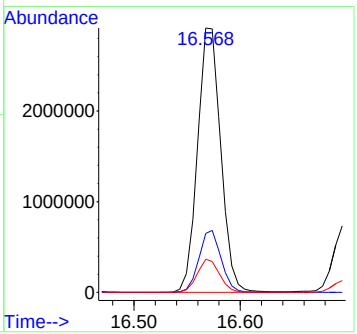


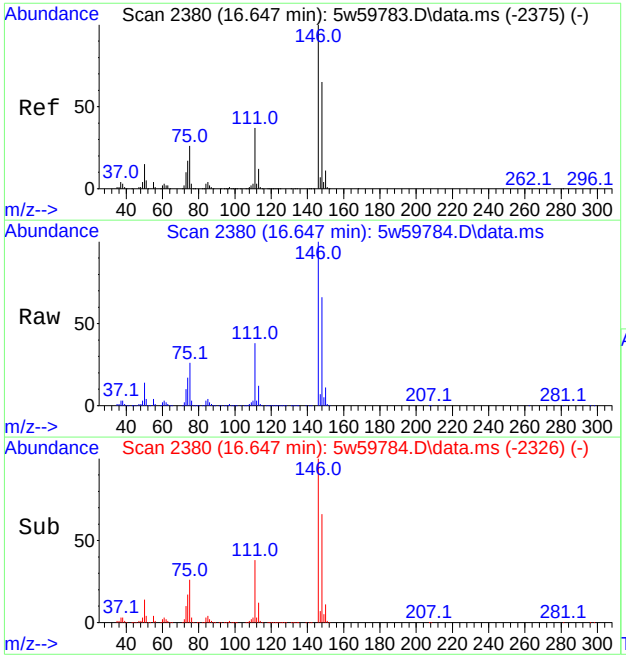


#98
BENZYL CHLORIDE
Concen: 23.83 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion: 91 Resp: 4433280

Ion	Ratio	Lower	Upper
91	100		
126	22.5	0.0	51.7
65	12.0	0.0	42.2

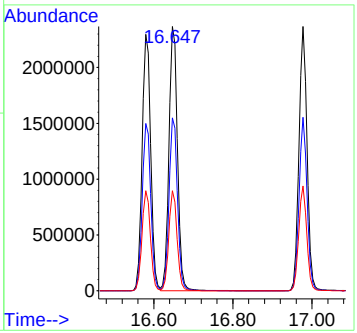


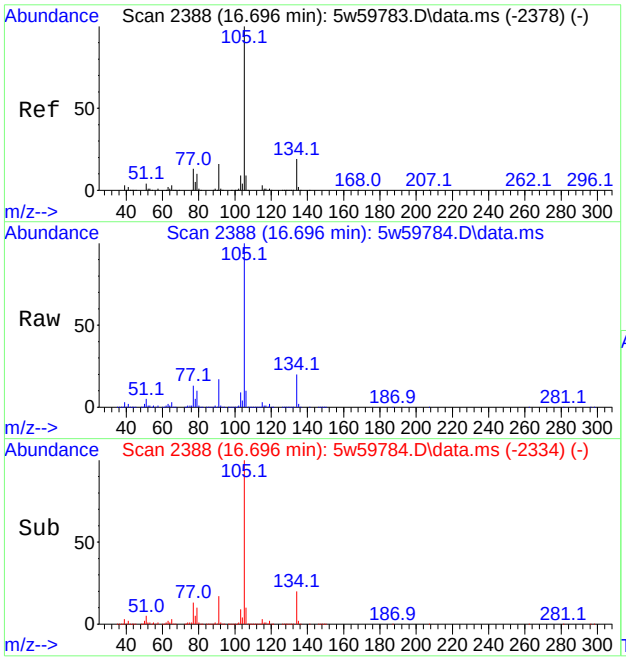


#99
p-DICHLOROBENZENE
Concen: 20.84 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3529112

Ion	Ratio	Lower	Upper
146	100		
148	65.1	34.6	94.6
111	37.0	6.7	66.7

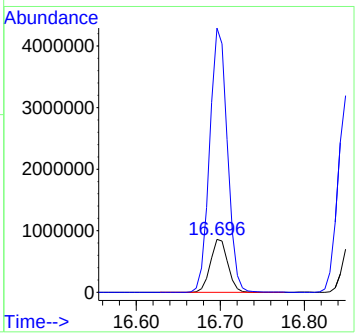


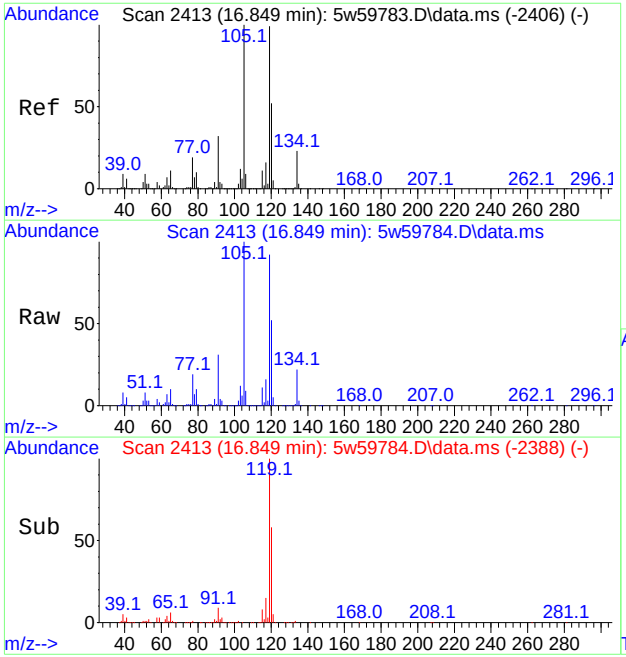


#100
sec-BUTYLBENZENE
Concen: 22.03 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1236753

Ion	Ratio	Lower	Upper
134	100		
105	509.0	502.5	562.5

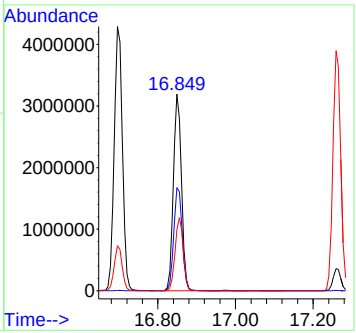


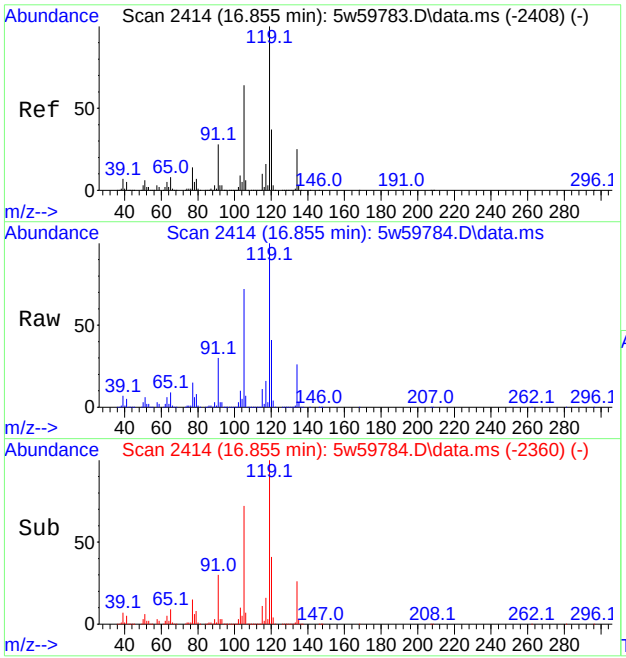


#101
1,2,3-TRIMETHYLBENZENE
Concen: 21.34 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:105 Resp: 4652009

Ion	Ratio	Lower	Upper
105	100		
120	54.4	23.5	83.5
91	37.5	7.4	67.4

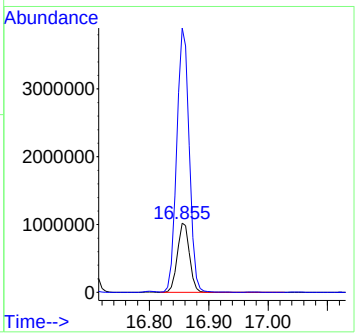


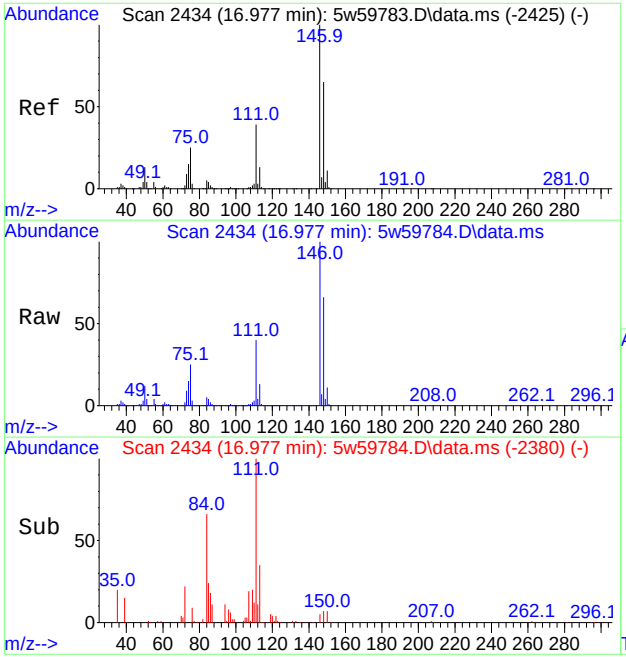


#102
p-ISOPROPYLTOLUENE
Concen: 22.76 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1464768

Ion	Ratio	Lower	Upper
134	100		
119	393.7	377.7	437.7

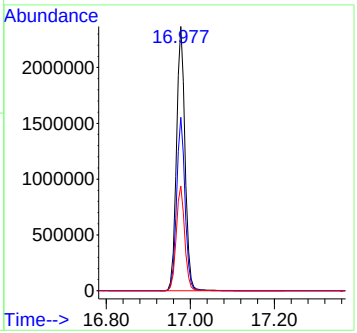


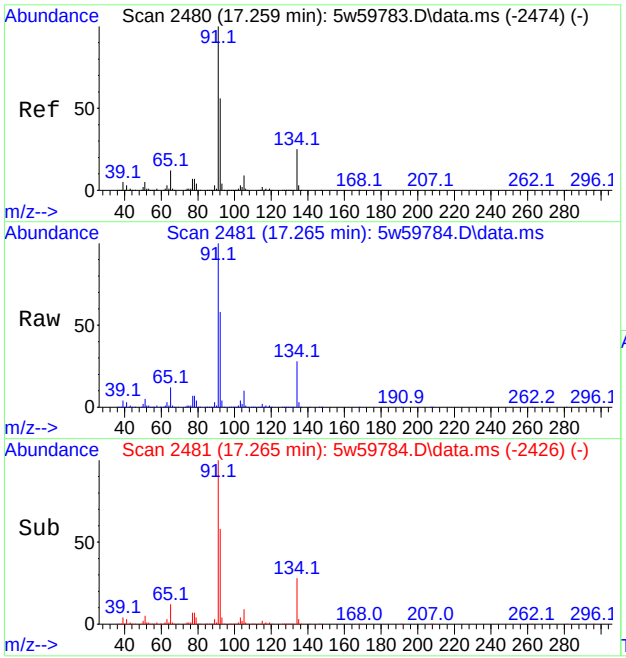


#103
o-DICHLOROBENZENE
Concen: 20.30 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:146 Resp: 3353483

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.3	94.3
111	39.4	9.2	69.2

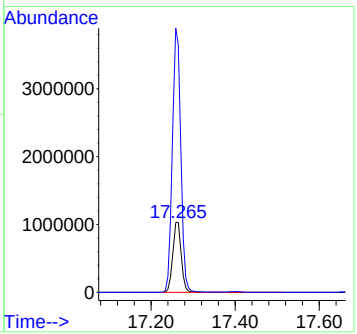


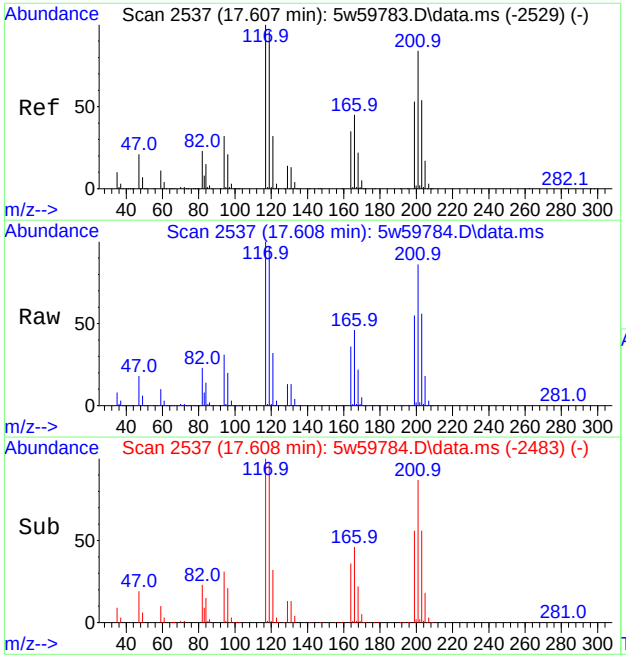


#104
n-BUTYLBENZENE
Concen: 24.56 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:134 Resp: 1447206

Ion	Ratio	Lower	Upper
134	100		
91	376.5	363.1	423.1

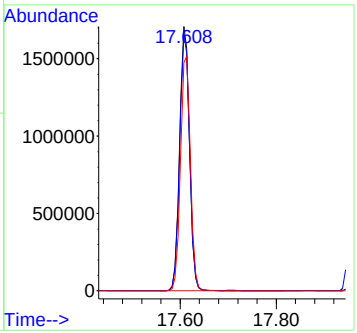


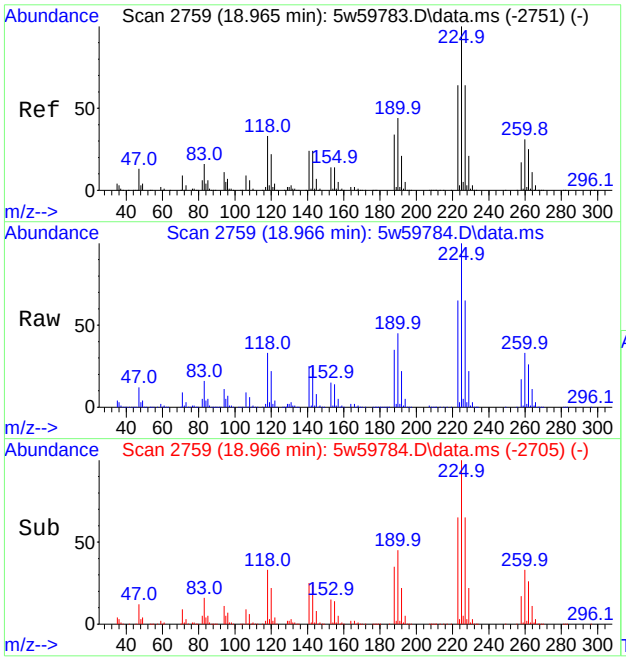


#105
HEXACHLOROETHANE
Concen: 22.06 PPBV
RT: 17.608 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:117 Resp: 2435886

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	89.0	61.1	113.5

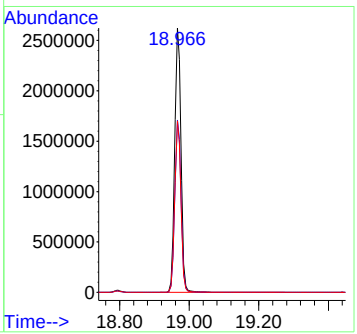


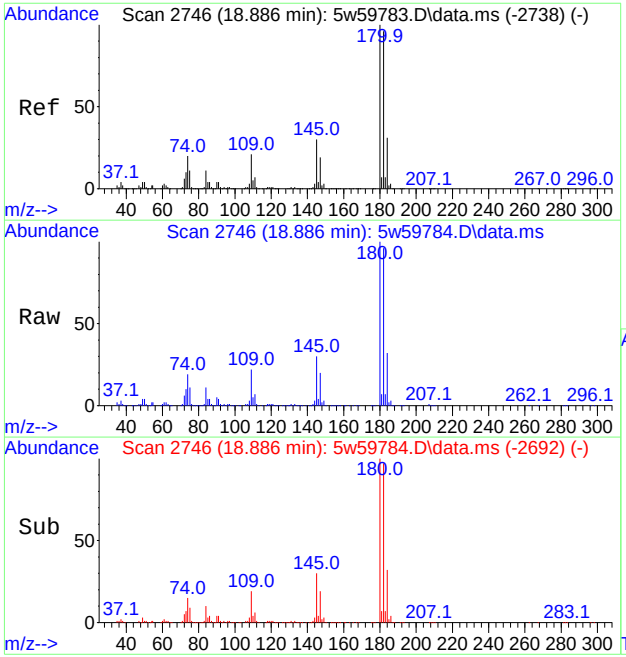


#106
HEXACHLOROBUTADIENE
Concen: 18.79 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:225 Resp: 3259497

Ion	Ratio	Lower	Upper
225	100		
227	64.9	34.2	94.2
223	64.0	33.3	93.3

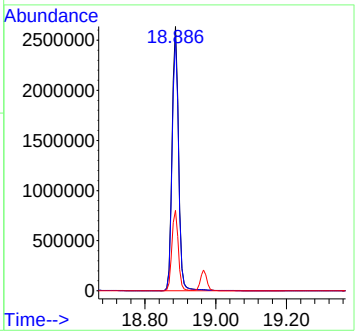


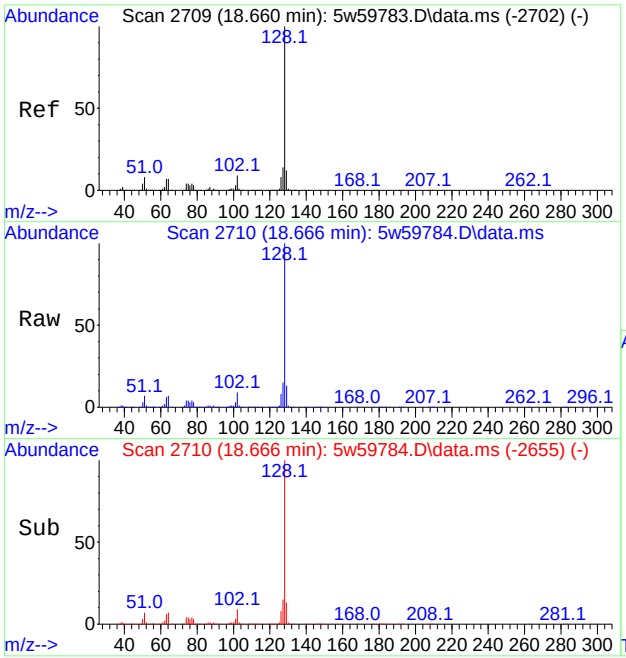


#107
1,2,4-TRICHLOROBENZENE
Concen: 28.94 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:180 Resp: 3337105

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	30.1	0.0	59.4

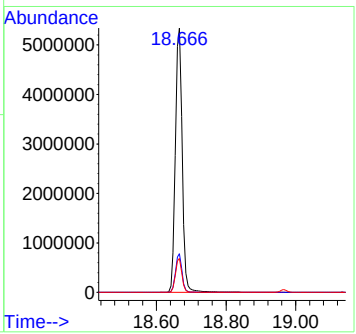


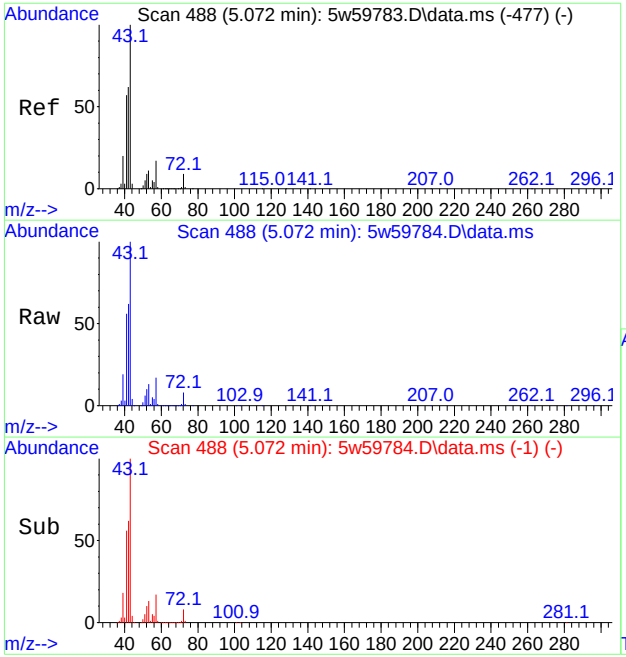


#108
NAPHTHALENE
Concen: 26.85 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:128 Resp: 7329968

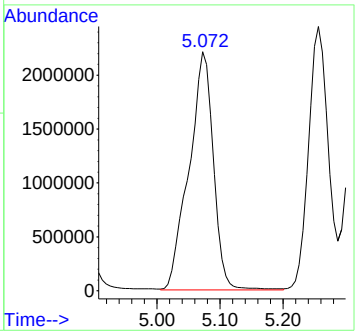
Ion	Ratio	Lower	Upper
128	100		
127	14.0	0.0	43.3
129	12.2	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 16.52 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59784.D
Acq: 7 Nov 2025 8:12 am

Tgt Ion:TIC Resp: 5936529



Manual Integration Approval Summary

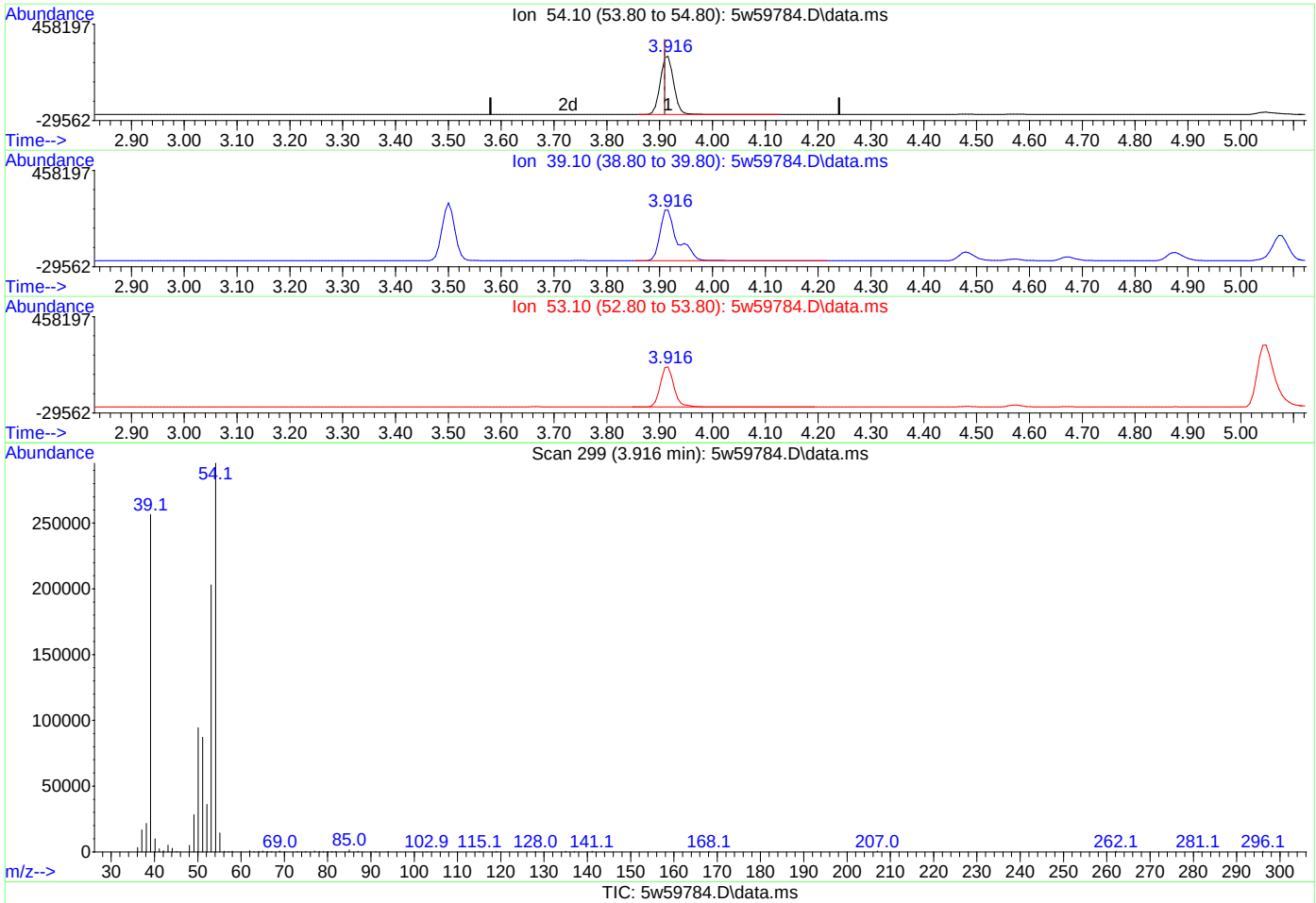
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59784.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:12 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		3.92	Poor instrument integration
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV

response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	113.35
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
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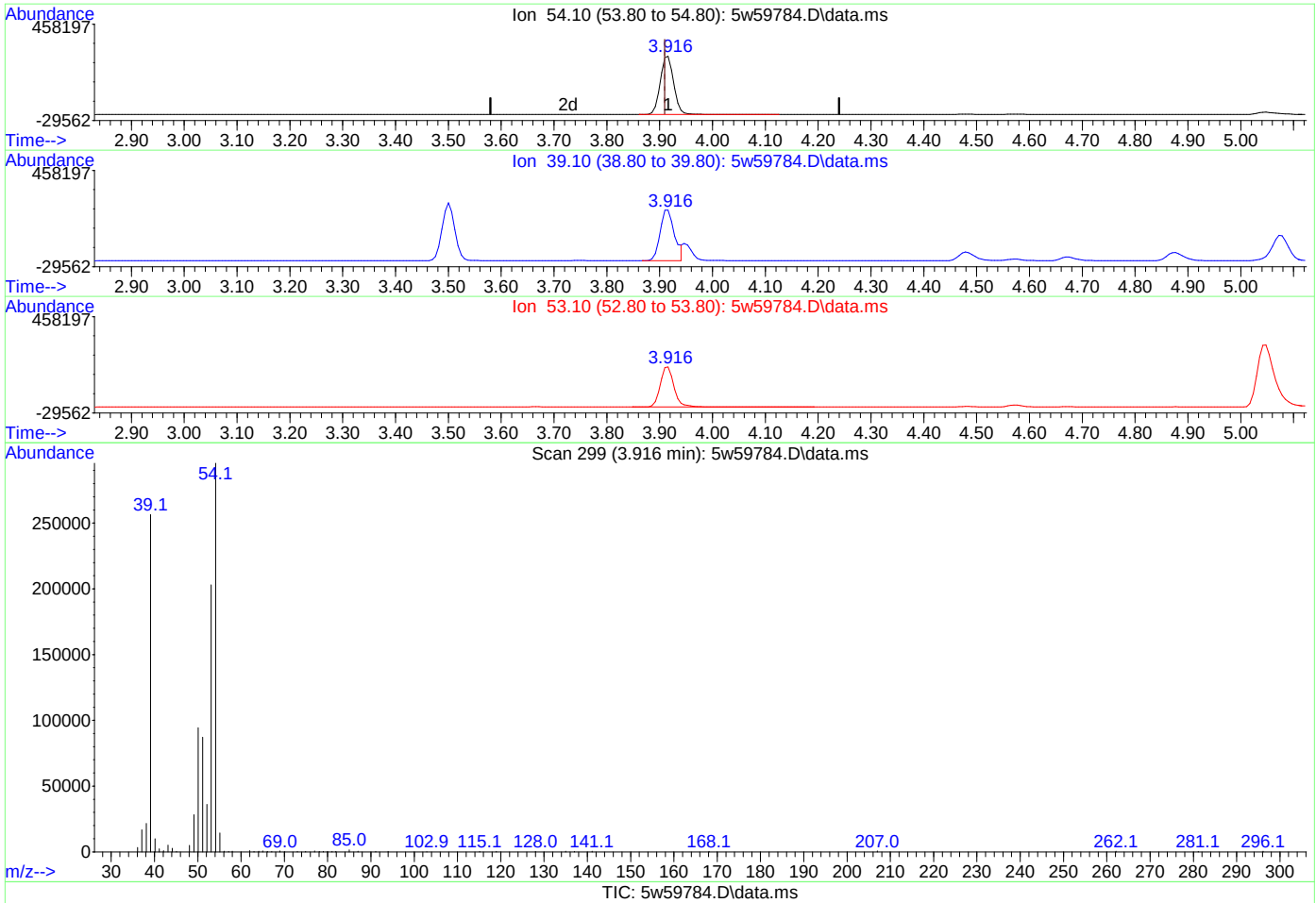
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(12) 1,3-BUTADIENE

3.916min (+0.006) 15.76PPBV m

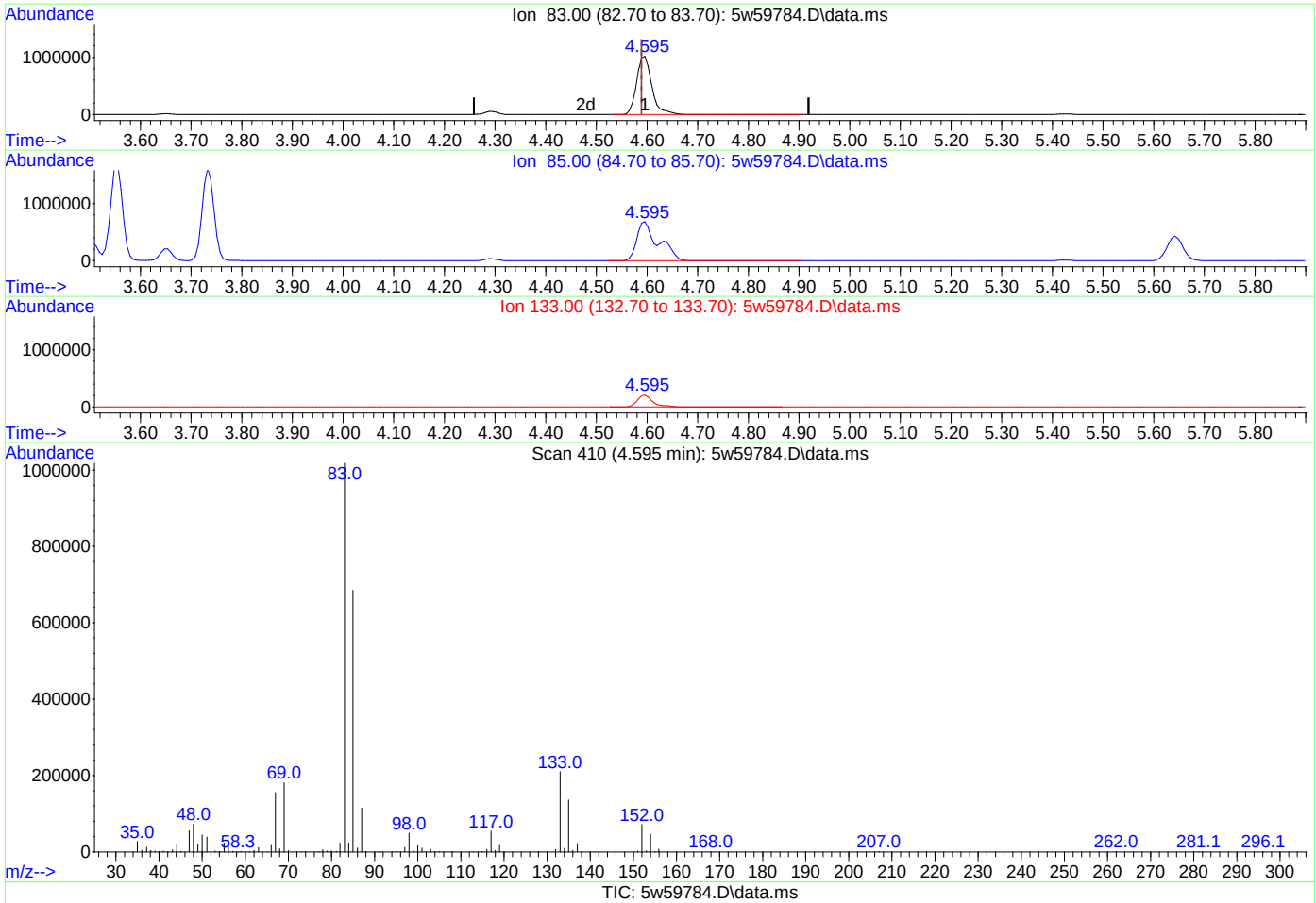
response 526623

Ion	Exp%	Act%
54.10	100	100
39.10	112.00	93.33
53.10	70.20	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV

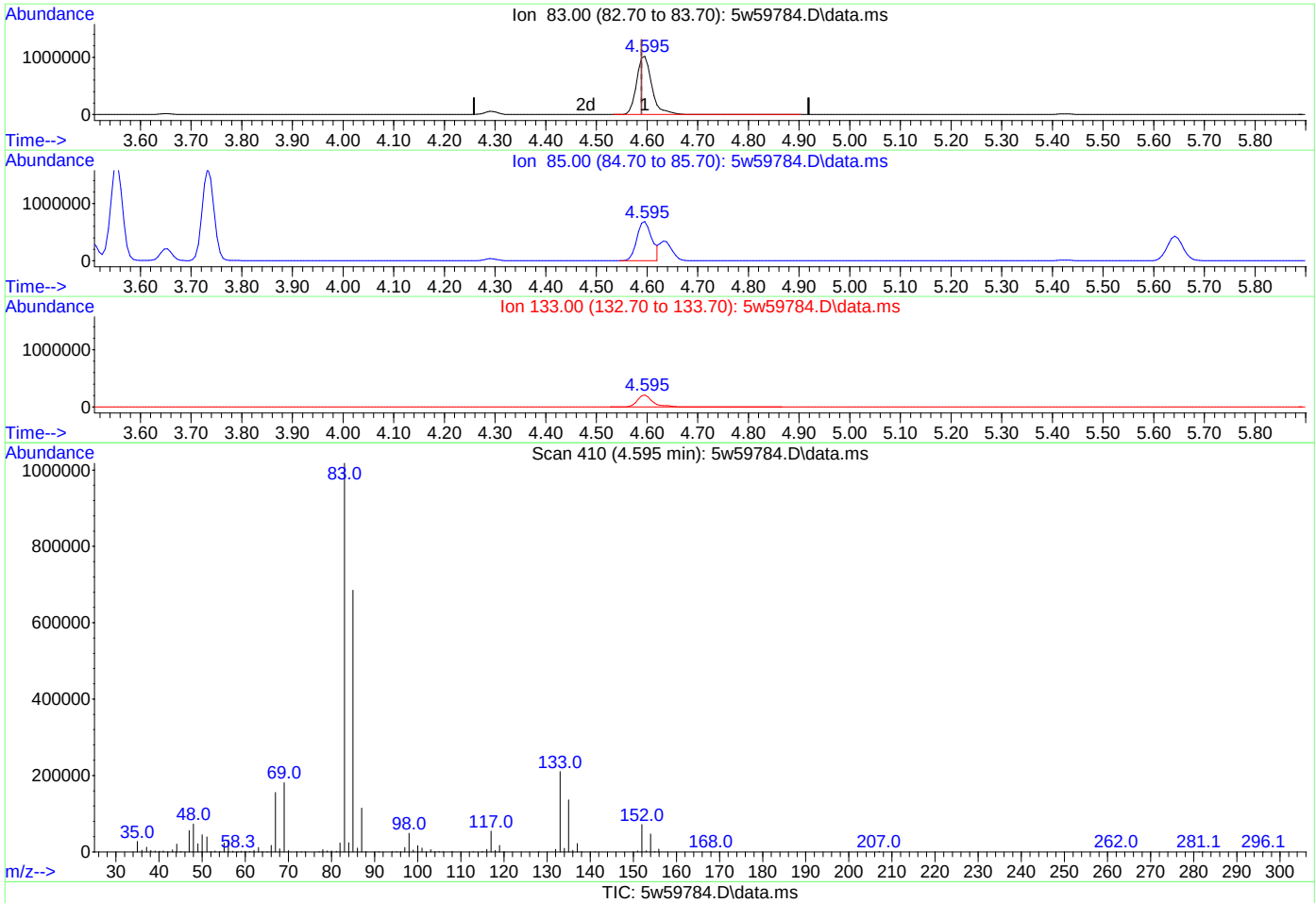
response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	94.23#
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(19) FREON 123

4.595min (+0.006) 18.75PPBV m

response 2144663

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	66.65
133.00	20.70	20.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
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Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
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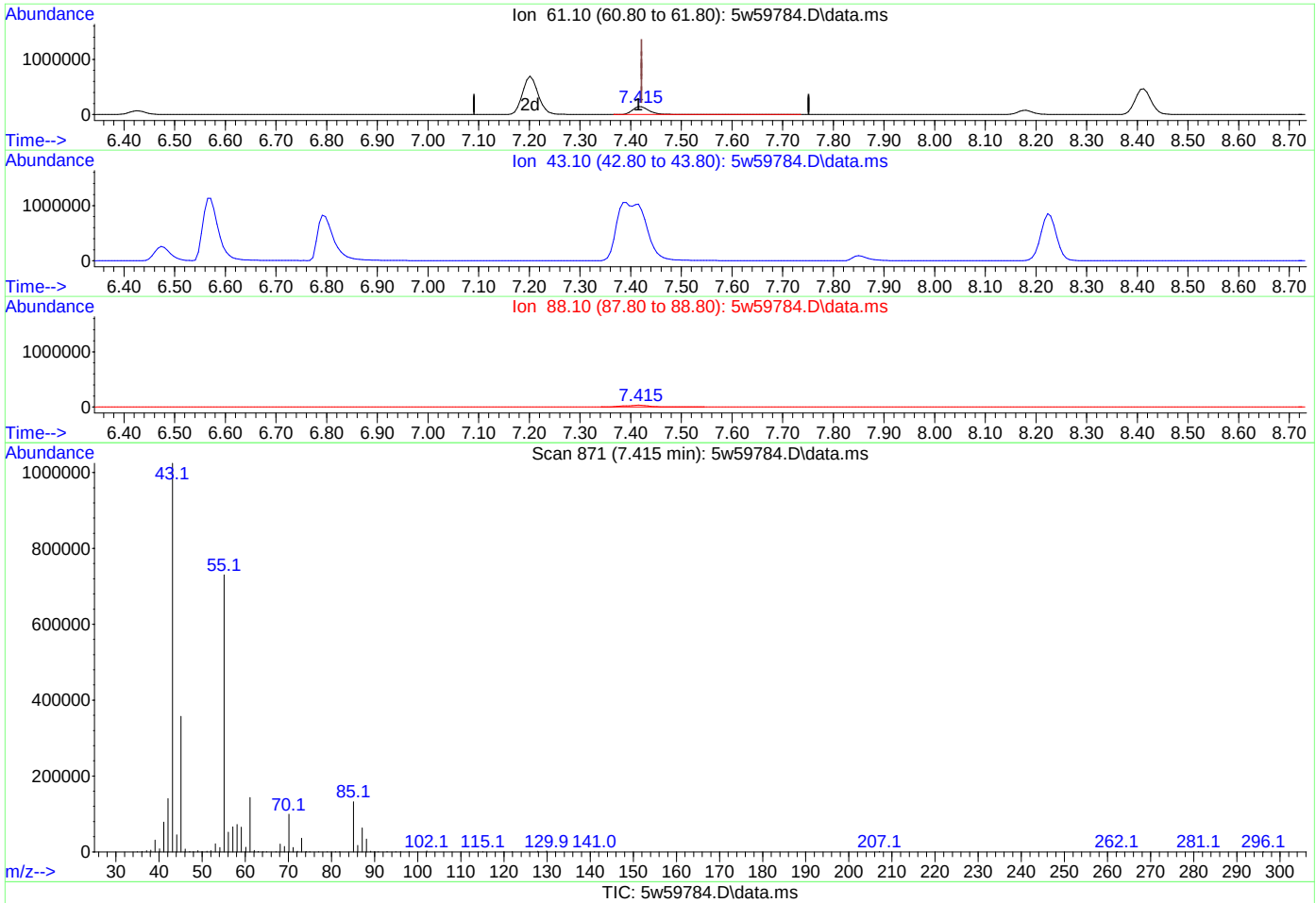


TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV

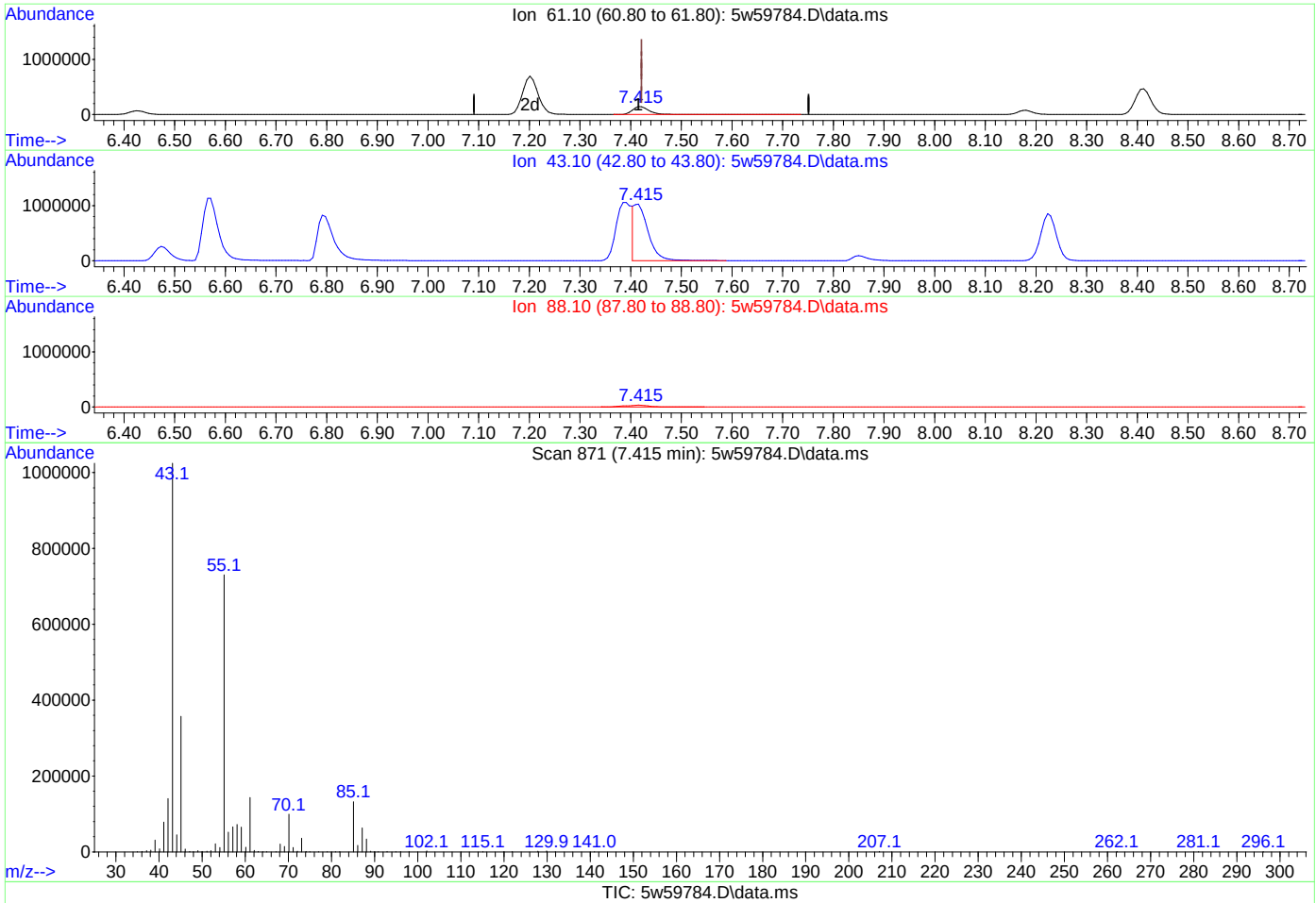
response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	0.00#
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 22.04PPBV m

response 340212

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	580.22
88.10	34.50	35.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
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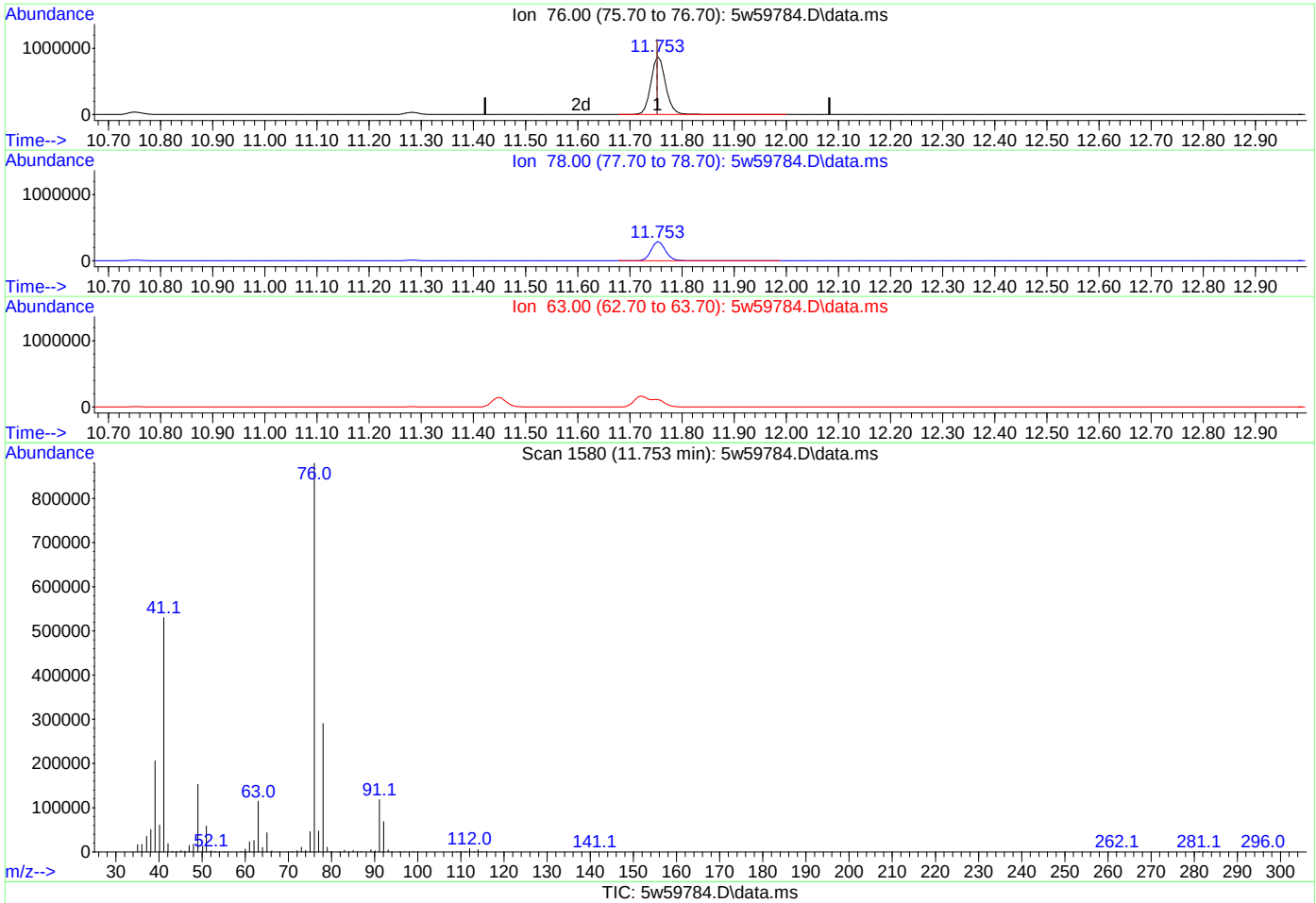


TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV

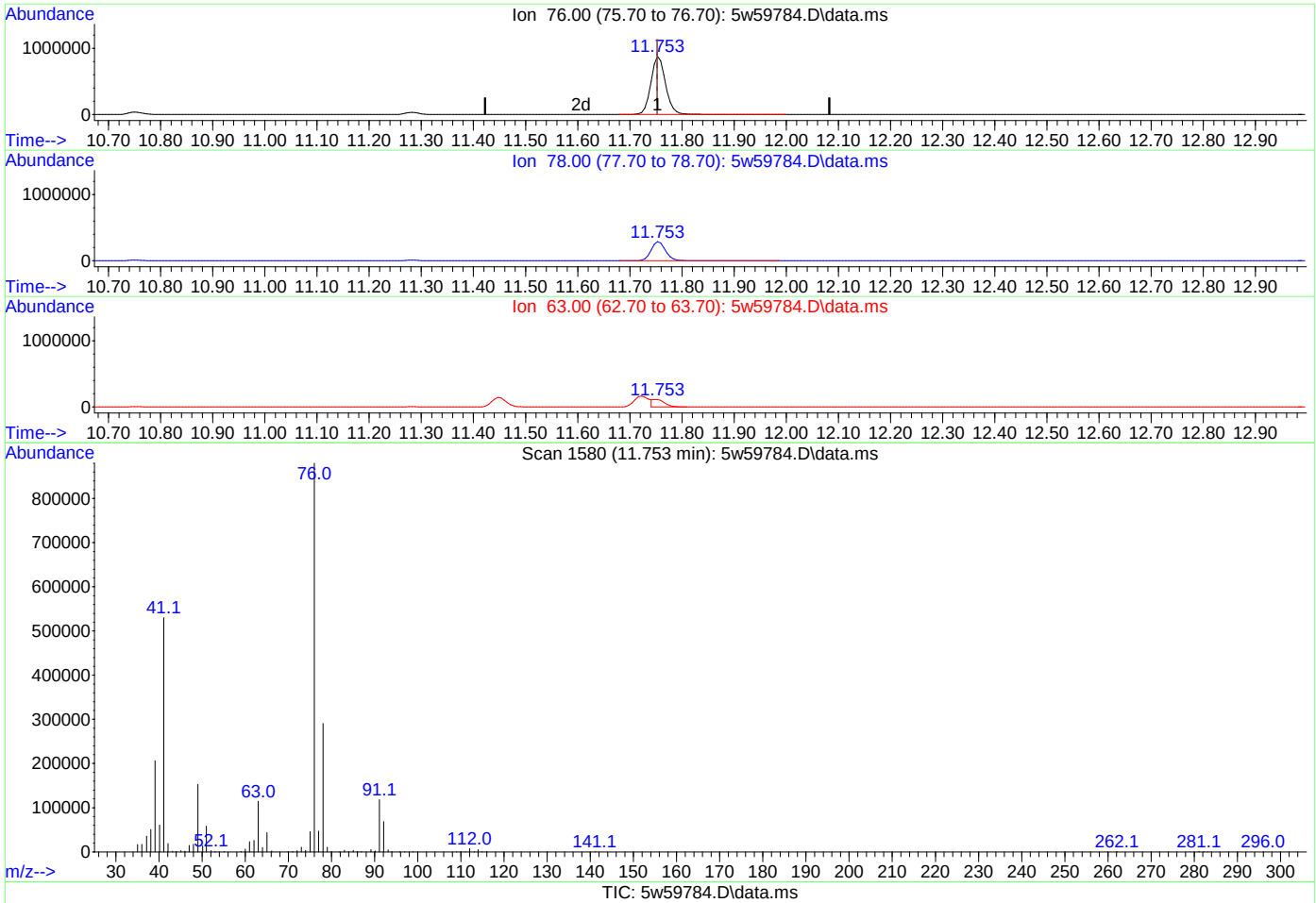
response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59784.D
Acq On : 7 Nov 2025 8:12 am
Operator : benk
Sample : ic2292-20
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:35:57 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:34:24 2025
Response via : Initial Calibration



TIC: 5w59784.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.753min (+0.000) 22.65PPBV m

response 1738240

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	32.96
63.00	10.10	10.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.360	128	458599	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1942721	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1247352	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	458722	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1398246	9.05	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.50%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	510693	9.37	PPBV	100
3) FREON 152A	3.445	65	1313214	37.53	PPBV	97
4) CHLORODIFLUOROMETHANE	3.476	67	606229	38.04	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.506	116	3030922	39.97	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.549	85	5182161	34.55	PPBV	98
7) PROPYLENE	3.500	41	1339768	35.21	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	3864501	29.06	PPBV	99
9) FREON 114	3.733	85	4558389	35.25	PPBV	98
10) CHLOROMETHANE	3.665	52	502015	31.88	PPBV	97
11) VINYL CHLORIDE	3.818	62	1652876	33.07	PPBV	99
12) 1,3-BUTADIENE	3.910	54	986783	29.91	PPBV	99
13) n-BUTANE	3.947	43	1549667	26.23	PPBV	99
14) BROMOMETHANE	4.106	94	1791748	36.10	PPBV	100
15) CHLOROETHANE	4.228	64	730406	32.03	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	3504203	30.34	PPBV	99
17) ACETONITRILE	4.479	41	862154	25.50	PPBV	99
18) ACROLEIN	4.571	56	516183	28.89	PPBV	95
19) FREON 123	4.589	83	3786151m	32.62	PPBV	
20) FREON 123A	4.632	117	2385952	33.24	PPBV	94
21) TRICHLOROFLUOROMETHANE	4.791	101	4286330	26.66	PPBV	99
22) ISOPROPYL ALCOHOL	4.870	45	3091991	27.22	PPBV	99
23) ACETONE	4.669	58	611815	29.72	PPBV	97
24) PENTANE	5.072	42	1748442	28.85	PPBV	97
25) IODOMETHANE	5.256	142	6000517	39.54	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.317	96	1913922	35.49	PPBV	96
27) CARBON DISULFIDE	5.672	76	5159120	36.29	PPBV	98
28) ETHANOL	4.320	45	528233	23.67	PPBV	99
29) BROMOETHENE	4.479	106	1797717	37.63	PPBV	100
30) ACRYLONITRILE	5.042	52	1271597	36.54	PPBV	99
31) METHYLENE CHLORIDE	5.421	84	1660696	34.35	PPBV	97
32) 3-CHLOROPROPENE	5.525	76	861126	38.85	PPBV	93
33) FREON 113	5.641	151	3469148	36.66	PPBV	98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2022318	36.73	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.372	59	3394797	29.74	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	5102873	37.67	PPBV	99
37) TETRAHYDROFURAN	7.844	72	801341	44.15	PPBV	98
38) HEXANE	7.385	57	2879156	37.98	PPBV	93
39) VINYL ACETATE	6.571	86	363965	40.72	PPBV #	86
40) 1,1-DICHLOROETHANE	6.424	63	3644940	36.44	PPBV	99
41) METHYL ETHYL KETONE	6.791	72	879599	46.66	PPBV	90
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2133694	37.52	PPBV	98
43) DIISOPROPYL ETHER	7.391	59	905463	43.95	PPBV #	83
44) ETHYL ACETATE	7.415	61	671399m	43.14	PPBV	
45) METHYL ACRYLATE	7.409	55	3595052	40.28	PPBV	97
46) CHLOROFORM	7.483	83	4216969	36.42	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.223	57	3428957	38.76	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.413	97	4473116	35.48	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	4942966	35.62	PPBV		100
50)	1,2-DICHLOROETHANE	8.180	62	3028960	37.08	PPBV		99
52)	BENZENE	8.859	78	5773385	44.75	PPBV		100
53)	CYCLOHEXANE	9.110	84	2282258	44.64	PPBV		98
54)	2,3-DIMETHYLPENTANE	9.355	71	1205121	46.80	PPBV		95
55)	TRICHLOROETHYLENE	9.893	95	2886125	41.87	PPBV		99
56)	1,2-DICHLOROPROPANE	9.654	63	2329113	42.47	PPBV		99
57)	DIBROMOMETHANE	9.636	174	3208165	42.48	PPBV		98
58)	ETHYL ACRYLATE	9.679	55	4517787	46.25	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	4951368	40.63	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.918	57	8459039	38.93	PPBV		97
61)	1,4-DIOXANE	9.893	88	1215269	45.35	PPBV	#	1
62)	HEPTANE	10.187	43	2988992	37.77	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	1989625	49.92	PPBV		98
64)	METHYL ISOBUTYL KETONE	10.786	58	1921879	47.23	PPBV		92
65)	cis-1,3-DICHLOROPROPENE	10.756	75	4023307	47.39	PPBV		92
66)	TOLUENE	11.722	92	4414753	47.83	PPBV		97
67)	1,3-DICHLOROPROPANE	11.759	76	3397591m	44.02	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.282	75	3536223	45.59	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.453	83	2422259	47.73	PPBV		100
71)	2-HEXANONE	12.004	58	2753205	43.59	PPBV		91
72)	ETHYL METHACRYLATE	12.028	69	3484828	43.20	PPBV		92
73)	TETRACHLOROETHYLENE	12.878	164	3370251	35.84	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	5622668	35.57	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	4750806	40.93	PPBV		100
76)	OCTANE	12.750	43	4235557	32.56	PPBV		94
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	3854037	37.26	PPBV		100
78)	CHLOROBENZENE	13.588	112	6101033	35.87	PPBV		99
79)	ETHYLBENZENE	13.986	91	9323124	38.31	PPBV		96
80)	m,p-XYLENE	14.188	106	7385992	79.24	PPBV		91
81)	o-XYLENE	14.683	106	3531781	41.16	PPBV		95
82)	STYRENE	14.573	104	5945197	45.55	PPBV		99
83)	NONANE	14.940	43	4120325	31.95	PPBV		94
84)	BROMOFORM	14.255	173	6063084	37.29	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	5834633	38.41	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	4239056	33.30	PPBV		98
88)	ISOPROPYLBENZENE	15.301	105	10105051	35.54	PPBV		96
89)	BROMOBENZENE	15.381	77	5092227	34.24	PPBV		97
90)	2-CHLOROTOLUENE	15.772	126	2919479	38.46	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	2929586	38.73	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	9932010	38.91	PPBV		95
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	8308295	35.08	PPBV		96
94)	ALPHA-METHYLSTYRENE	16.200	118	4732251	41.57	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	1826681	37.13	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.445	105	7744703	33.90	PPBV		97
97)	m-DICHLOROBENZENE	16.586	146	6361294	34.54	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	7942485	38.06	PPBV		97
99)	p-DICHLOROBENZENE	16.653	146	6796416	35.68	PPBV		98
100)	sec-BUTYLBENZENE	16.702	134	2382473	37.89	PPBV	#	76
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	7842082	32.09	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.861	134	2537472	35.07	PPBV	#	85
103)	o-DICHLOROBENZENE	16.983	146	6444852	34.67	PPBV		98
104)	n-BUTYLBENZENE	17.265	134	2846318	43.05	PPBV	#	78
105)	HEXACHLOROETHANE	17.614	117	4455103	36.00	PPBV		97
106)	HEXACHLOROBUTADIENE	18.972	225	5455879	28.29	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.886	180	6383531	48.55	PPBV		99
108)	NAPHTHALENE	18.666	128	12695949	41.10	PPBV		93
110)	TVHC as equiv Pentane	5.072	TIC	11631459	33.13	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

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

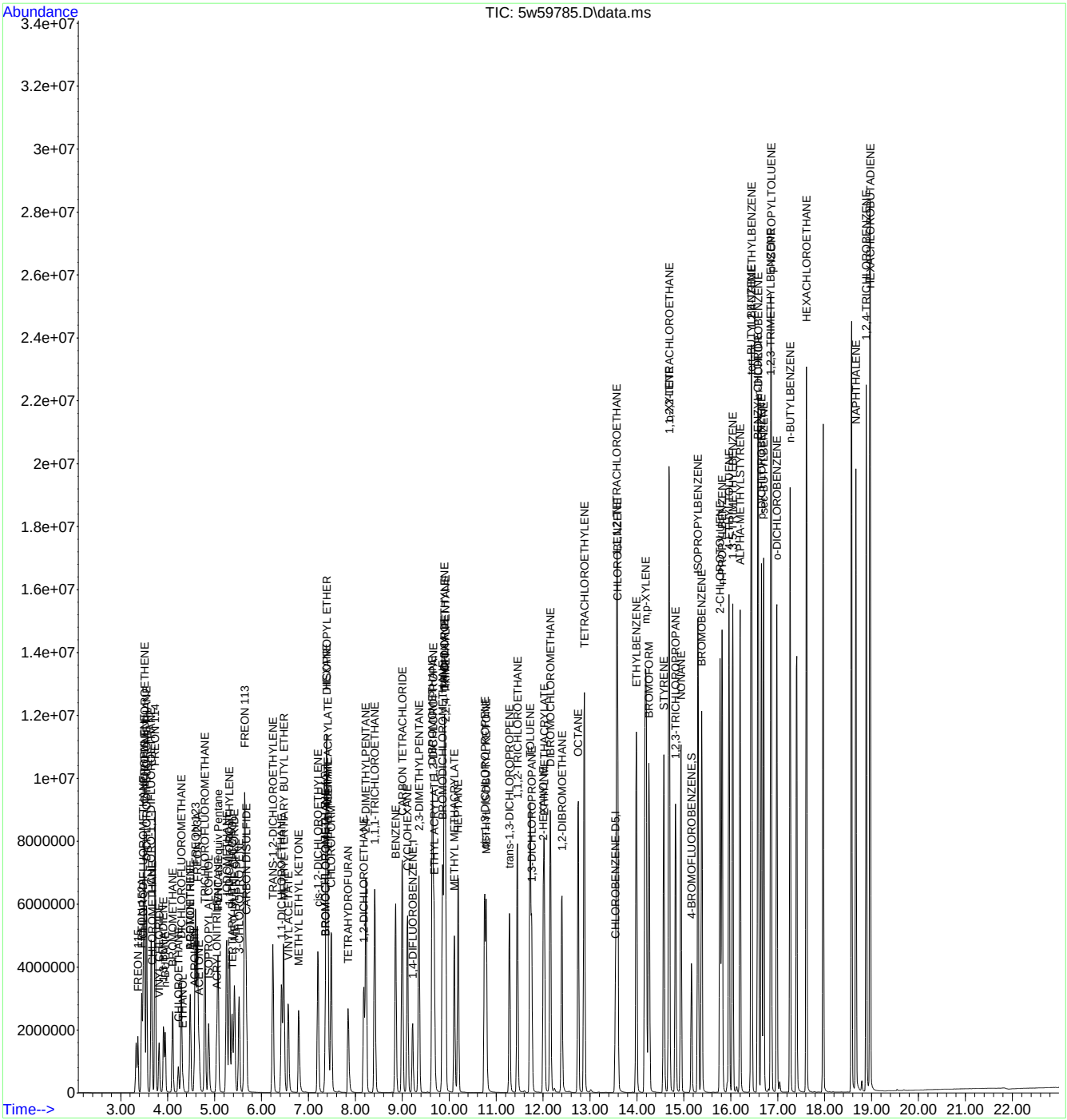
(#) = qualifier out of range (m) = manual integration (+) = signals summed

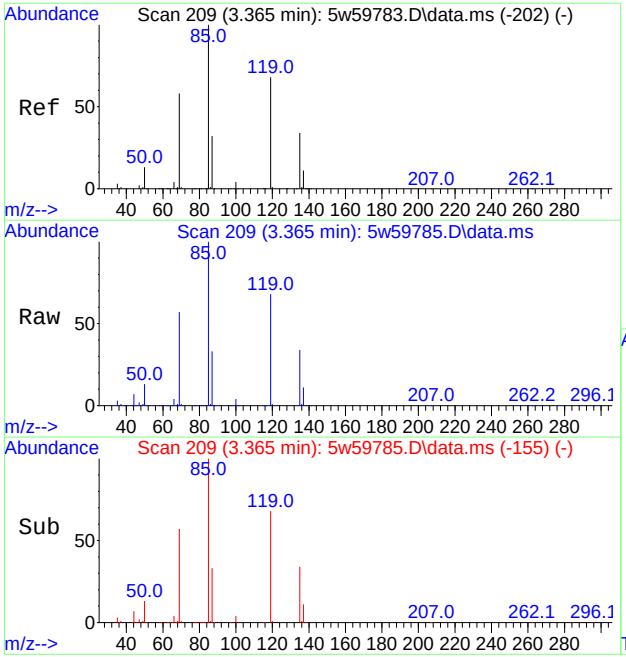
7.7.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:46:58 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration

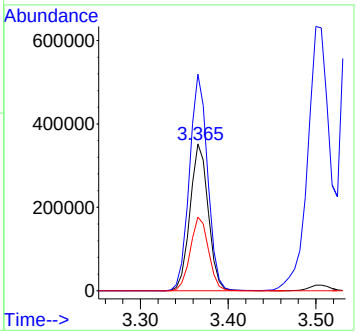


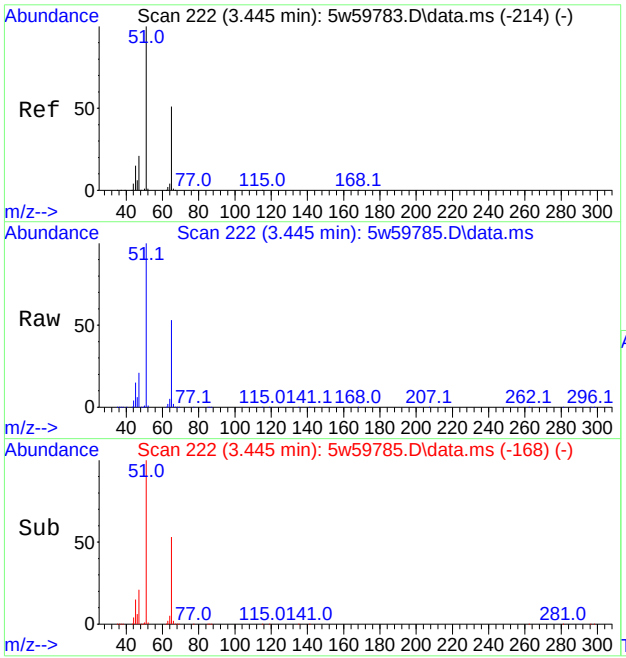


#2
FREON 115
Concen: 9.37 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:119 Resp: 510693

Ion	Ratio	Lower	Upper
119	100		
85	146.8	116.2	176.2
135	50.3	20.6	80.6

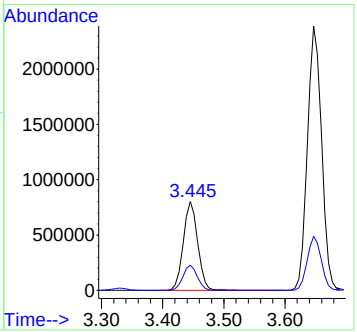


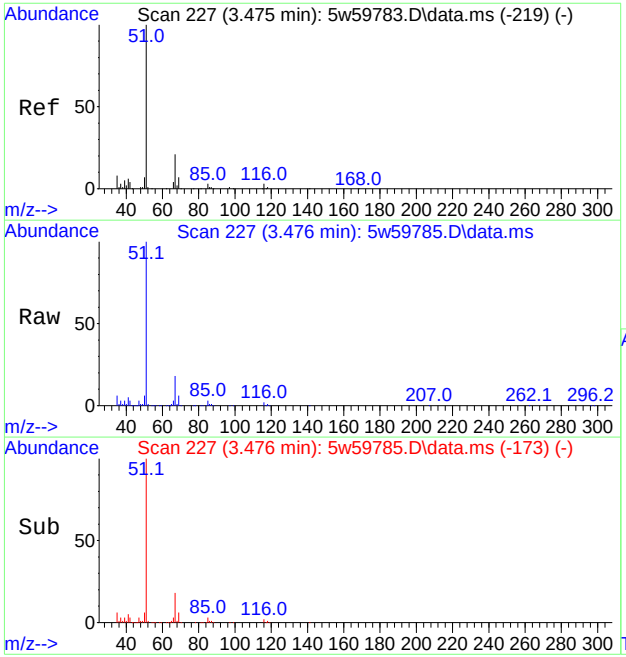


#3
FREON 152A
Concen: 37.53 PPBV
RT: 3.445 min Scan# 222
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 1313214

Ion	Ratio	Lower	Upper
65	100		
45	28.4	0.0	60.0

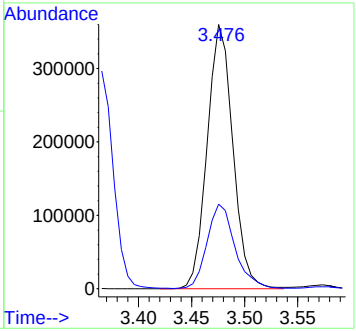


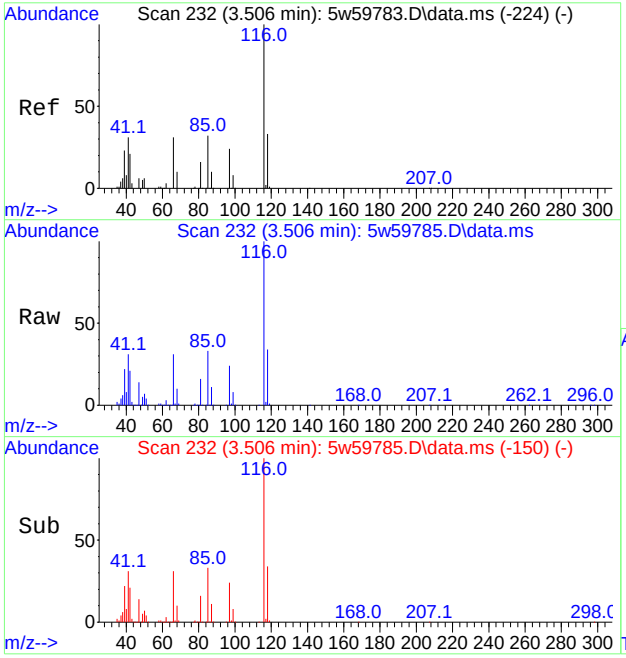


#4
CHLORODIFLUOROMETHANE
Concen: 38.04 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 606229

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

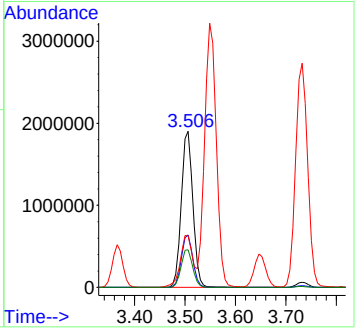


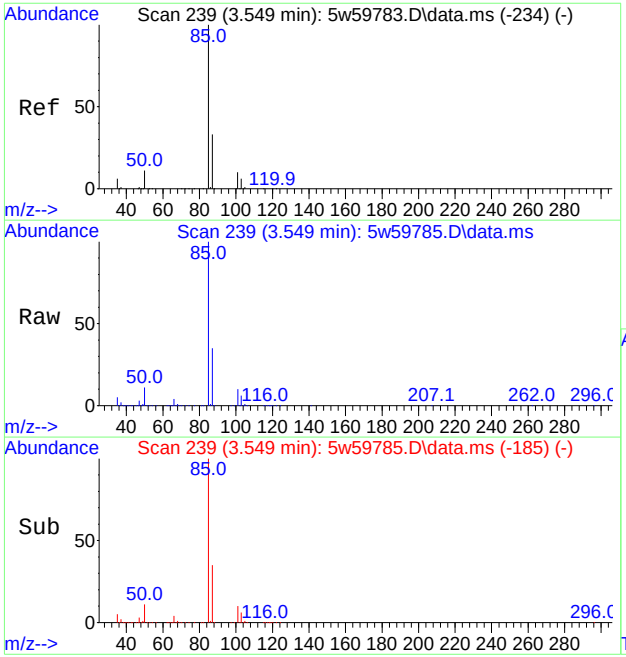


#5
CHLOROTRIFLUOROETHENE
Concen: 39.97 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:116 Resp: 3030922

Ion	Ratio	Lower	Upper
116	100		
118	33.3	22.9	42.5
85	37.1	23.7	44.1
97	24.2	17.0	31.6

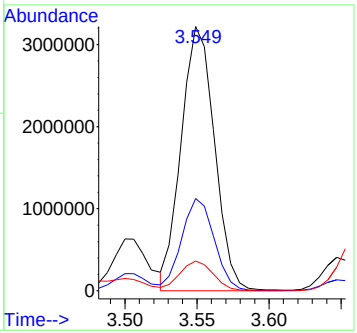


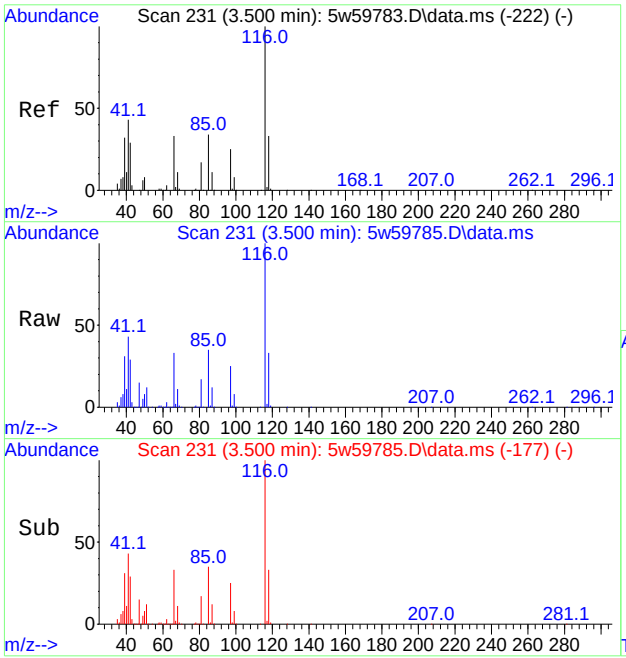


#6
DICHLORODIFLUOROMETHANE
Concen: 34.55 PPBV
RT: 3.549 min Scan# 239
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 5182161

Ion	Ratio	Lower	Upper
85	100		
87	34.2	2.5	62.5
50	11.3	0.0	41.7

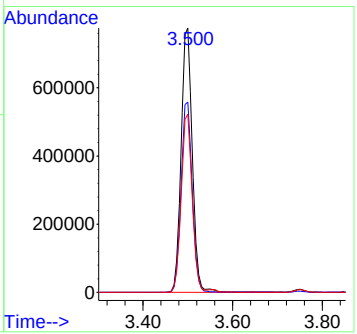


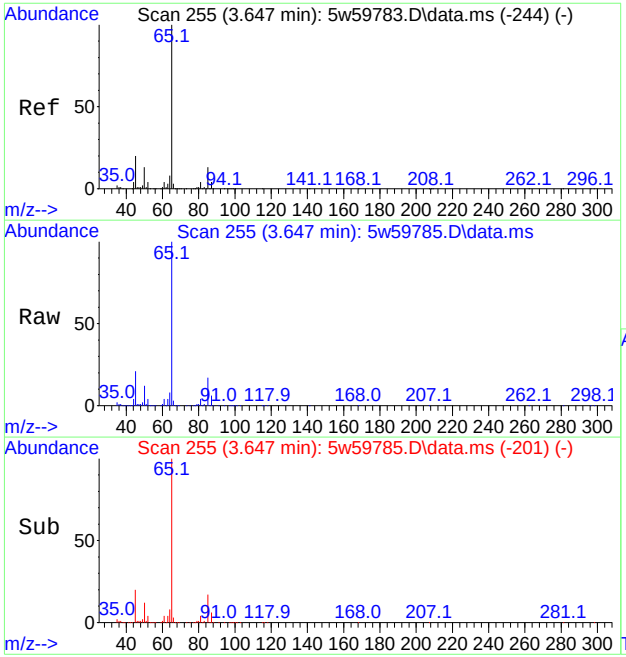


#7
PROPYLENE
Concen: 35.21 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 1339768

Ion	Ratio	Lower	Upper
41	100		
39	72.3	45.1	105.1
42	67.0	36.3	96.3

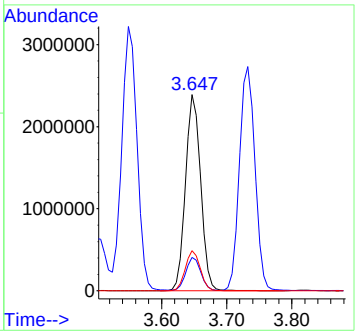


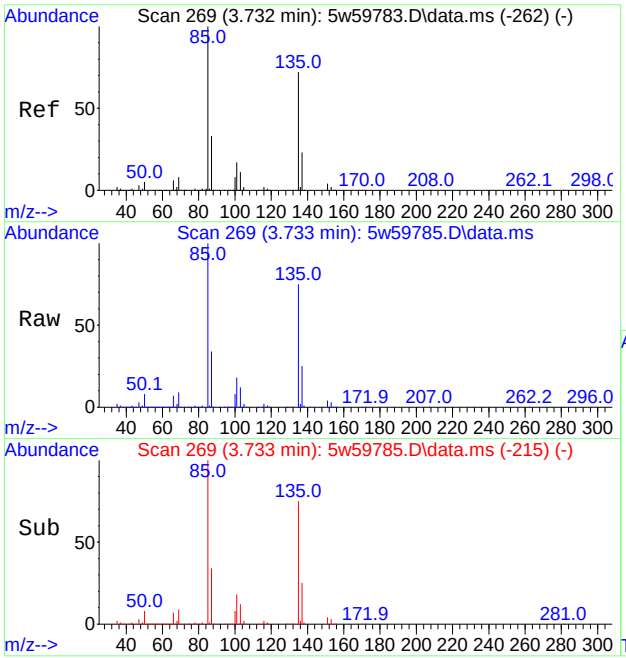


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 29.06 PPBV
RT: 3.647 min Scan# 255
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 65 Resp: 3864501

Ion	Ratio	Lower	Upper
65	100		
85	16.9	11.5	21.3
45	20.4	14.0	26.0

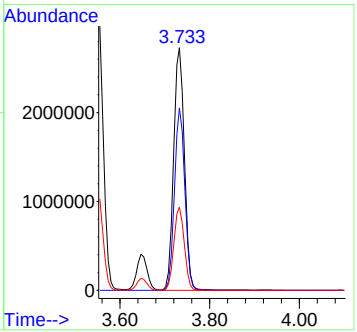


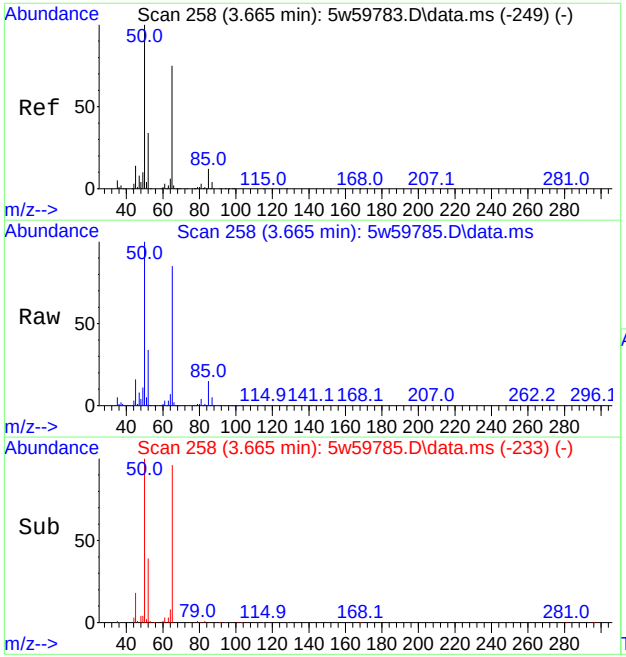


#9
FREON 114
Concen: 35.25 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 85 Resp: 4558389

Ion	Ratio	Lower	Upper
85	100		
135	73.1	40.5	100.5
87	33.6	3.0	63.0

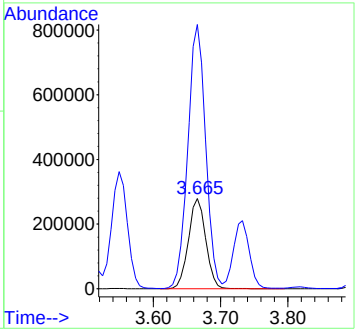


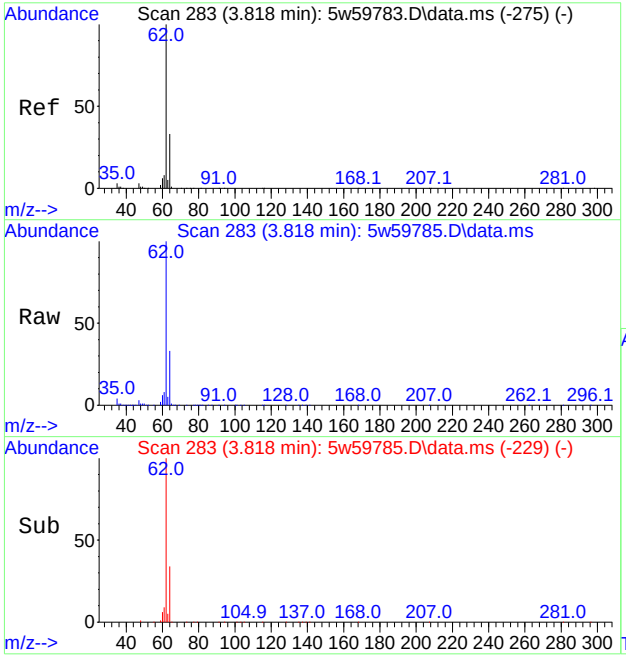


#10
CHLOROMETHANE
Concen: 31.88 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 502015

Ion	Ratio	Lower	Upper
52	100		
50	292.3	267.9	327.9

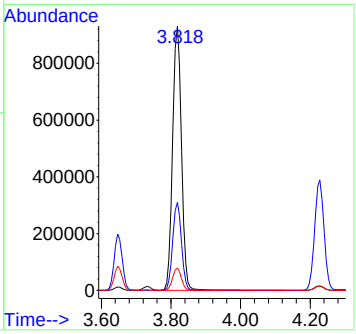


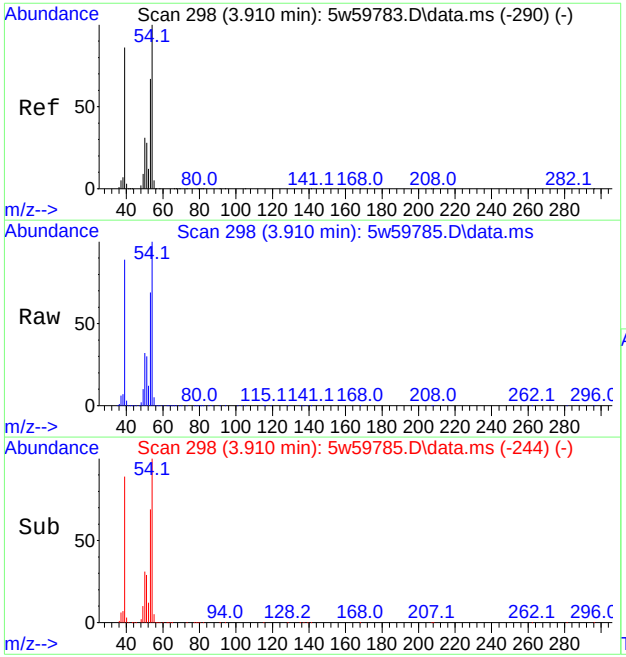


#11
VINYL CHLORIDE
Concen: 33.07 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 1652876

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

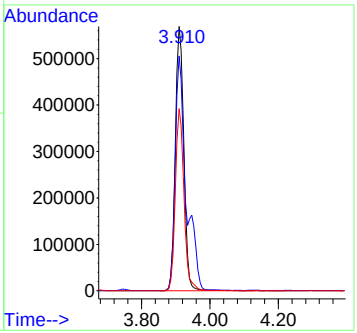


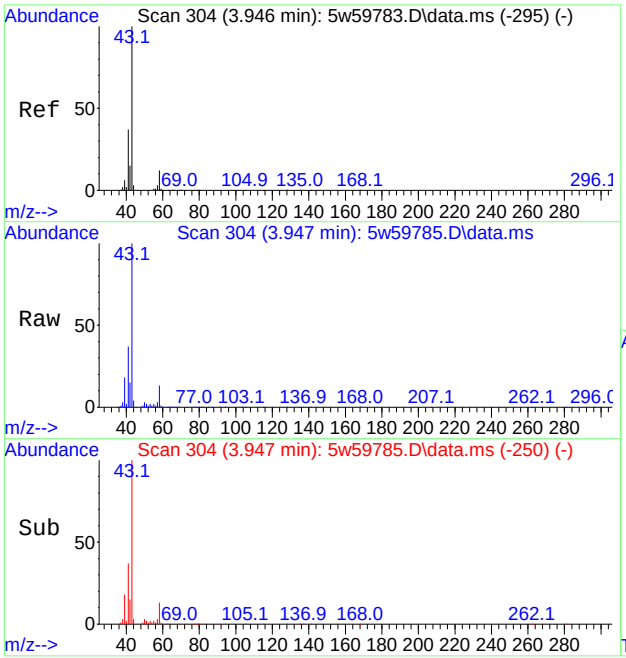


#12
1,3-BUTADIENE
Concen: 29.91 PPBV
RT: 3.910 min Scan# 298
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 54 Resp: 986783

Ion	Ratio	Lower	Upper
54	100		
39	113.9	82.0	142.0
53	70.3	40.2	100.2

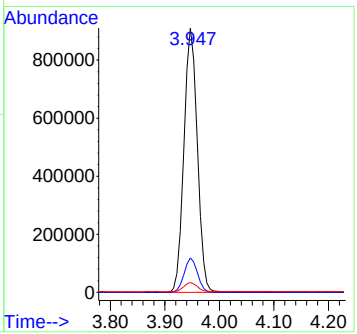


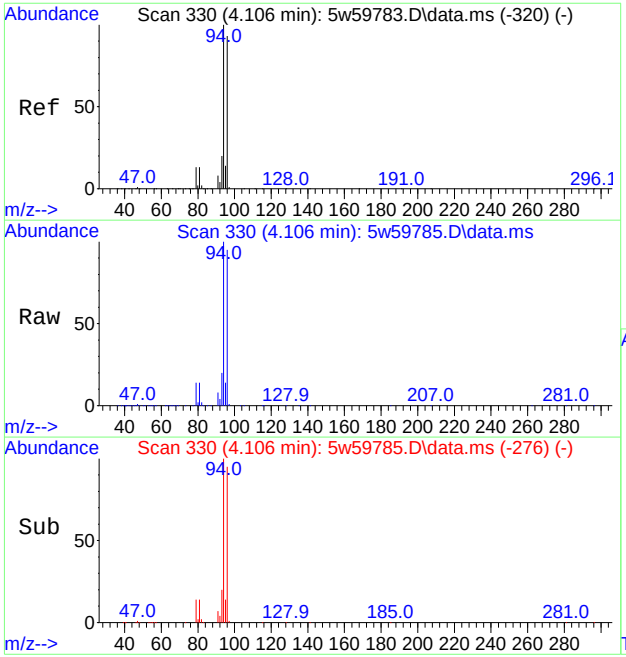


#13
n-BUTANE
Concen: 26.23 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 1549667

Ion	Ratio	Lower	Upper
43	100		
58	12.9	0.0	42.6
44	4.1	0.0	34.9

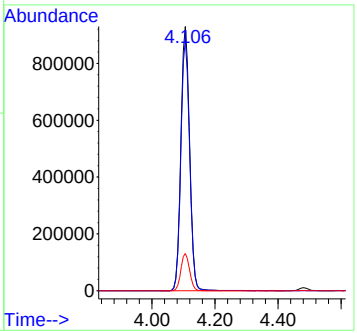


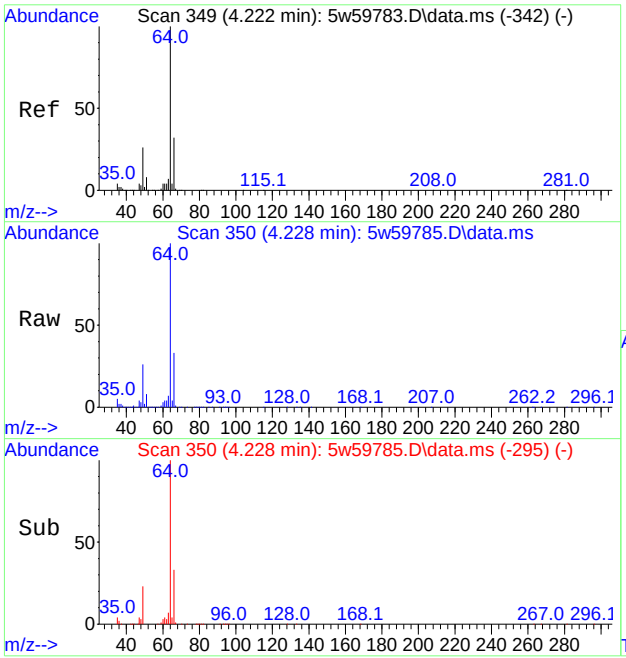


#14
BROMOMETHANE
Concen: 36.10 PPBV
RT: 4.106 min Scan# 330
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 94 Resp: 1791748

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.1	0.0	44.1

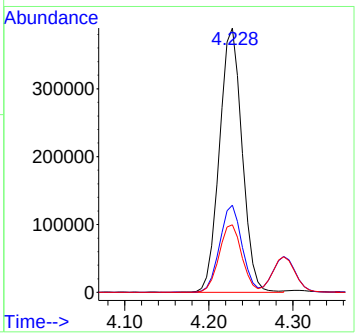


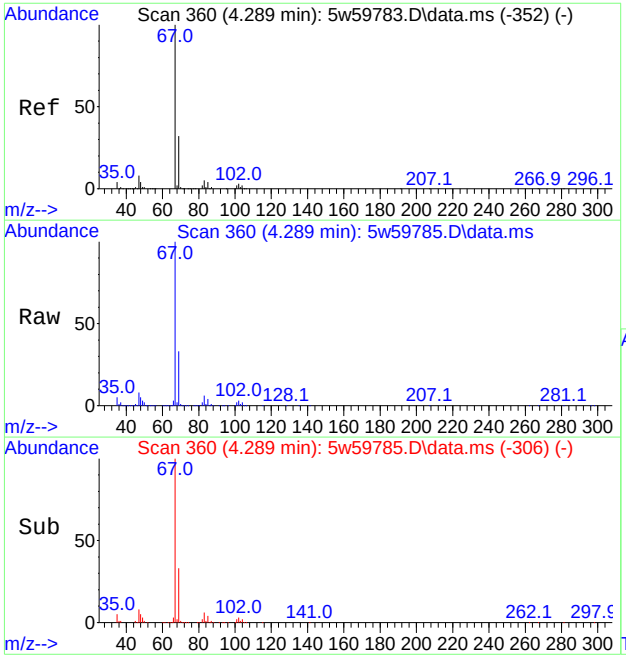


#15
CHLOROETHANE
Concen: 32.03 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 64 Resp: 730406

Ion	Ratio	Lower	Upper
64	100		
66	32.5	3.1	63.1
49	25.7	0.0	55.3

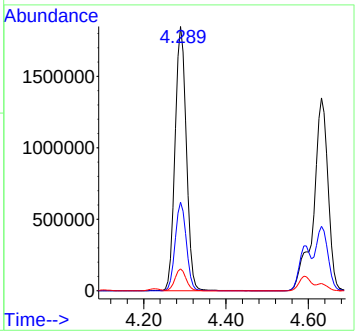


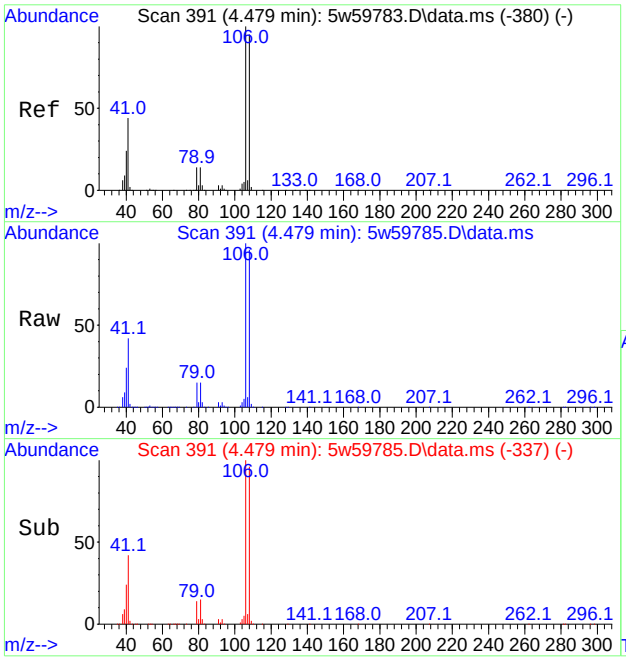


#16
DICHLOROFLUOROMETHANE
Concen: 30.34 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 67 Resp: 3504203

Ion	Ratio	Lower	Upper
67	100		
69	33.3	22.7	42.3
47	8.3	5.6	10.4

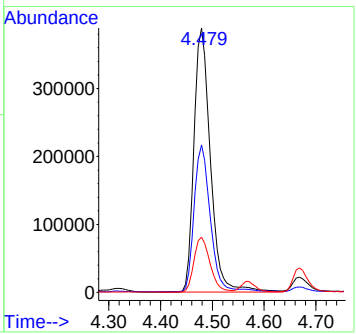


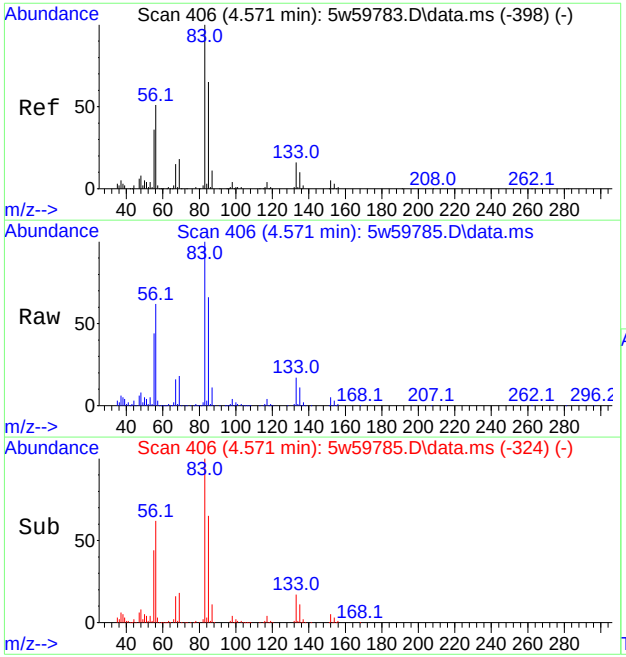


#17
ACETONITRILE
Concen: 25.50 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 41 Resp: 862154

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

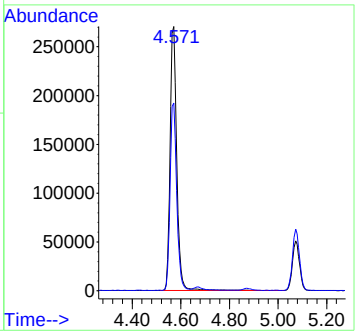


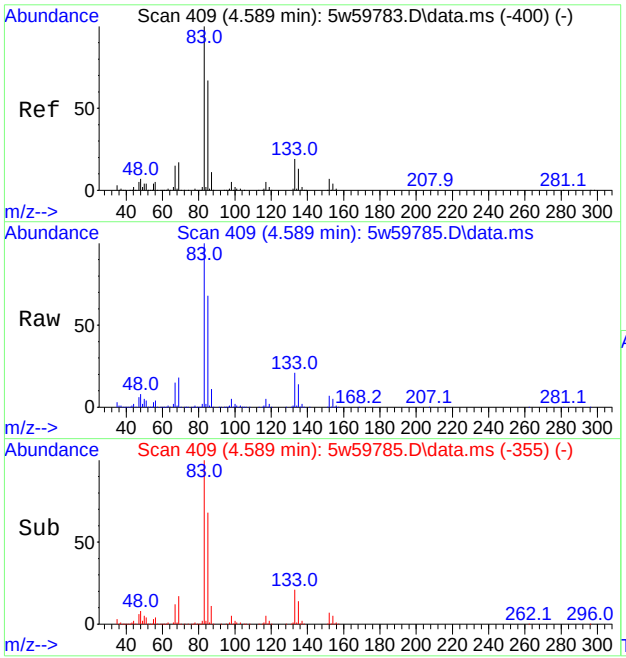


#18
ACROLEIN
Concen: 28.89 PPBV
RT: 4.571 min Scan# 406
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 56 Resp: 516183

Ion	Ratio	Lower	Upper
56	100		
55	70.8	46.6	86.6

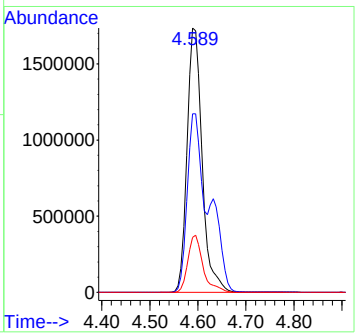


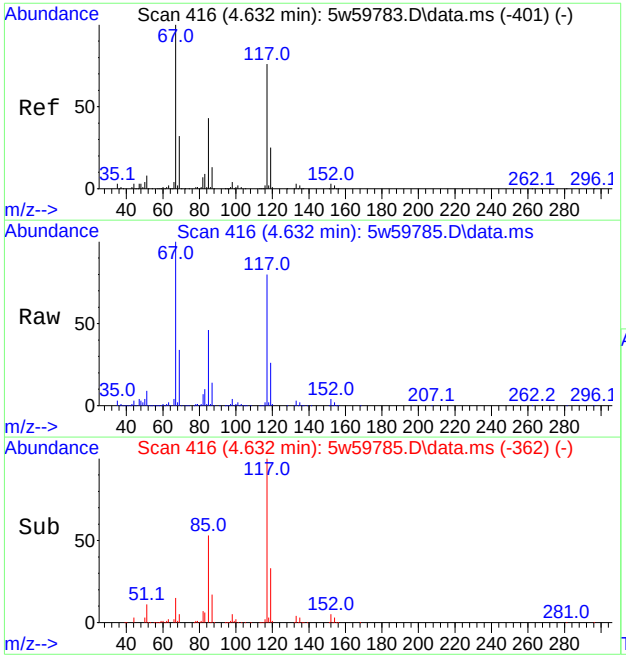


#19
FREON 123
Concen: 32.62 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 3786151

Ion	Ratio	Lower	Upper
83	100		
85	63.6	34.0	94.0
133	21.9	0.0	50.7

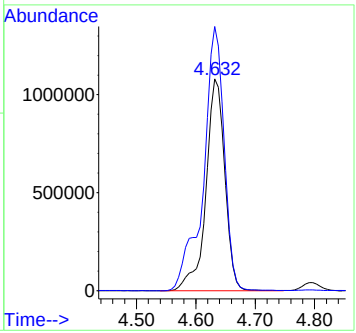


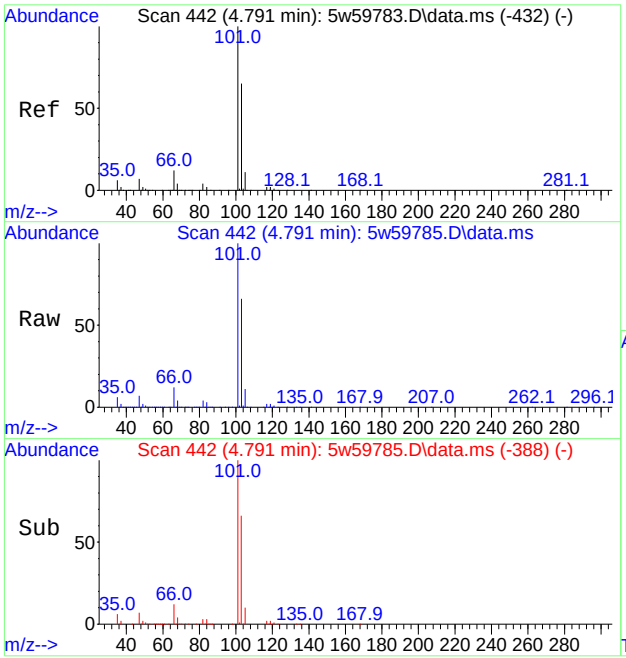


#20
FREON 123A
Concen: 33.24 PPBV
RT: 4.632 min Scan# 416
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 2385952

Ion	Ratio	Lower	Upper
117	100		
67	137.4	114.6	174.6

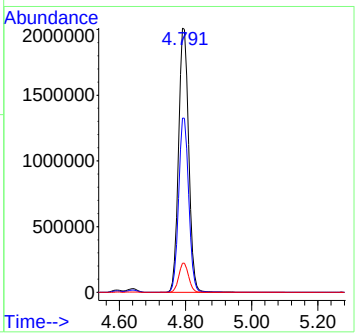


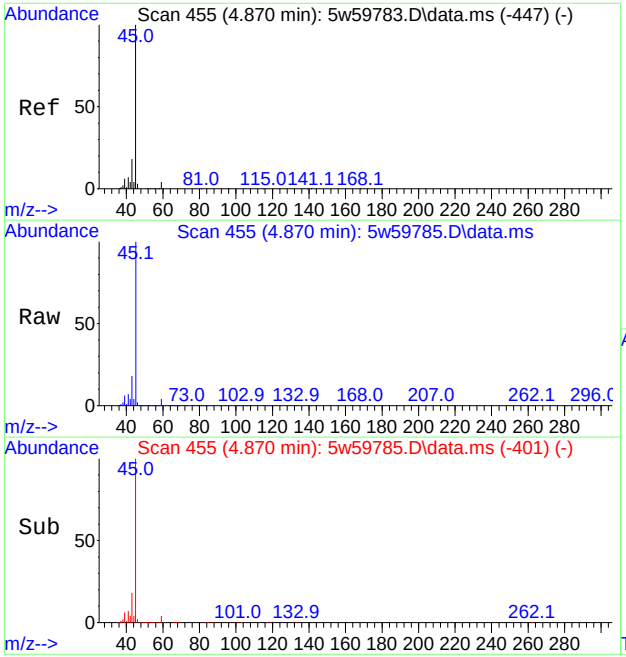


#21
TRICHLOROFLUOROMETHANE
Concen: 26.66 PPBV
RT: 4.791 min Scan# 442
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:101 Resp: 4286330

Ion	Ratio	Lower	Upper
101	100		
103	65.8	35.0	95.0
105	10.9	0.0	40.7

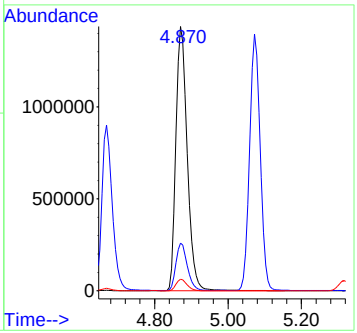


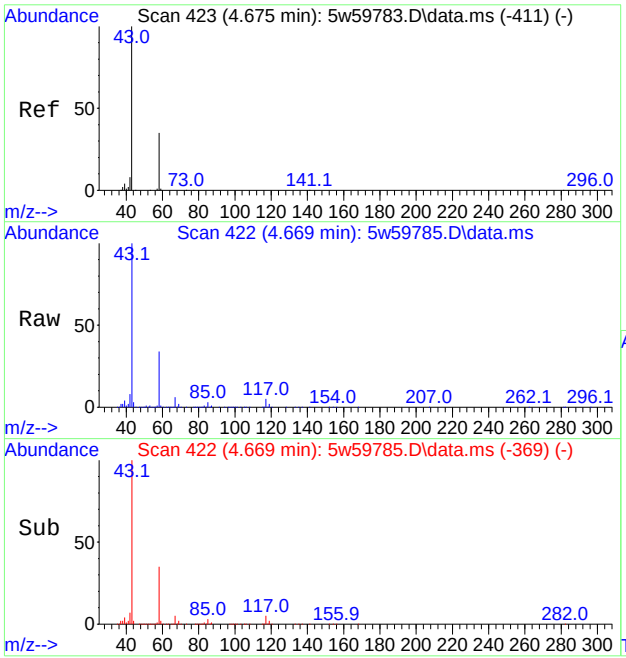


#22
ISOPROPYL ALCOHOL
Concen: 27.22 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 3091991

Ion	Ratio	Lower	Upper
45	100		
43	18.0	0.0	47.8
59	4.4	0.0	34.1

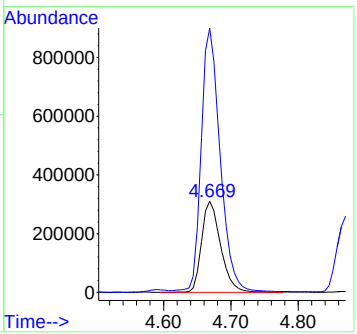


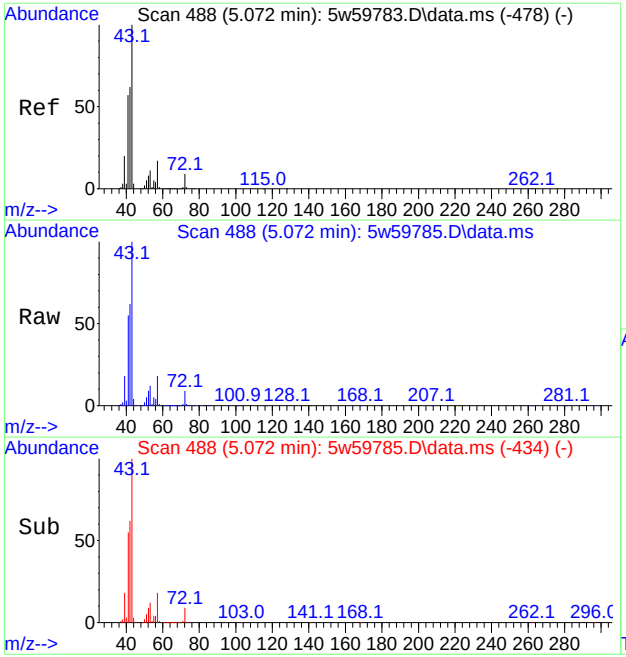


#23
ACETONE
Concen: 29.72 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 611815

Ion	Ratio	Lower	Upper
58	100		
43	288.5	252.3	312.3

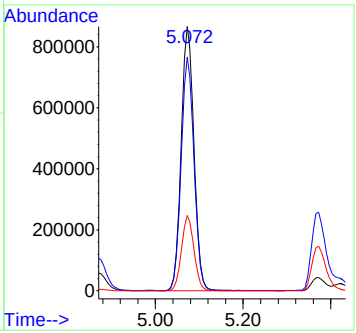


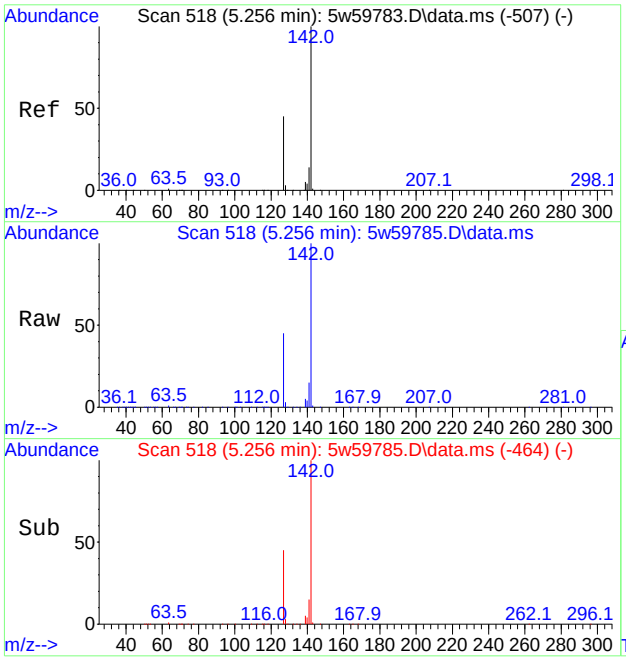


#24
PENTANE
Concen: 28.85 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 42 Resp: 1748442

Ion	Ratio	Lower	Upper
42	100		
41	89.0	62.3	122.3
57	28.1	0.0	57.7

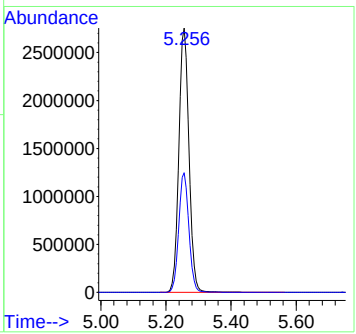


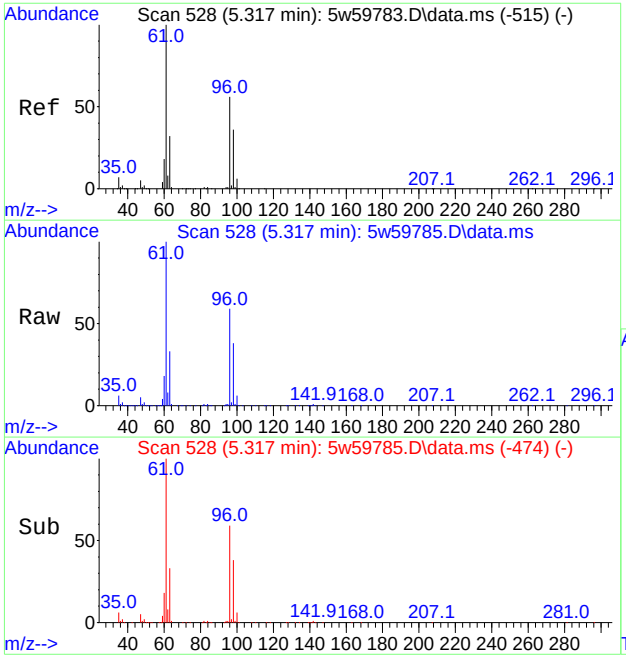


#25
IODOMETHANE
Concen: 39.54 PPBV
RT: 5.256 min Scan# 518
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:142 Resp: 6000517

Ion	Ratio	Lower	Upper
142	100		
127	45.4	16.0	76.0

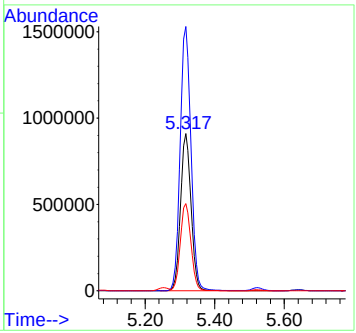


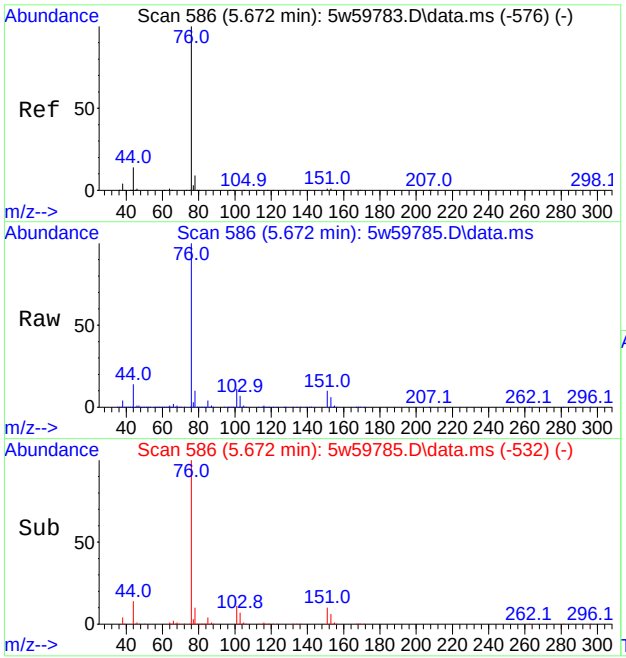


#26
1,1-DICHLOROETHYLENE
Concen: 35.49 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 1913922

Ion	Ratio	Lower	Upper
96	100		
61	172.5	148.5	208.5
63	56.3	27.4	87.4

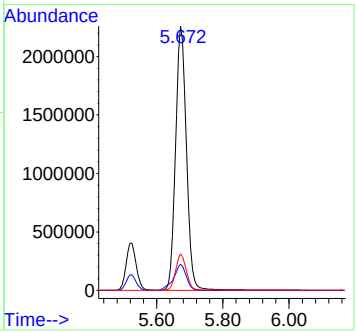


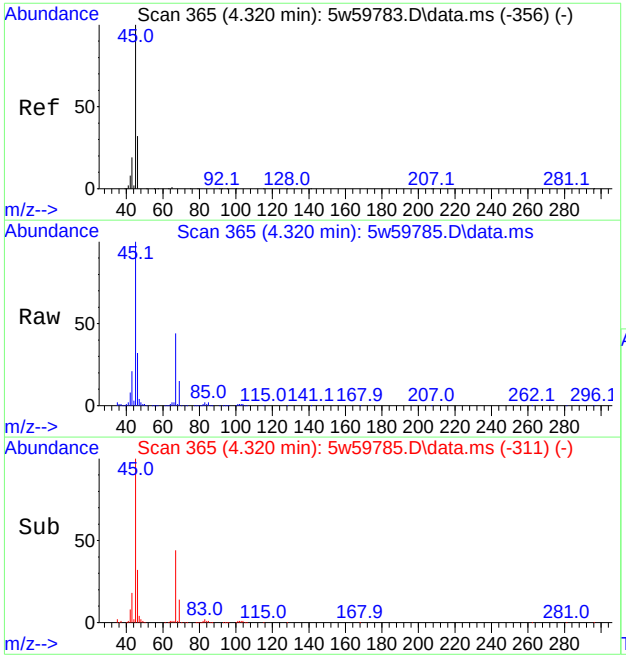


#27
CARBON DISULFIDE
Concen: 36.29 PPBV
RT: 5.672 min Scan# 586
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 5159120

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.5	0.0	44.6

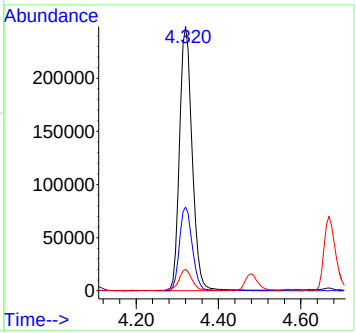


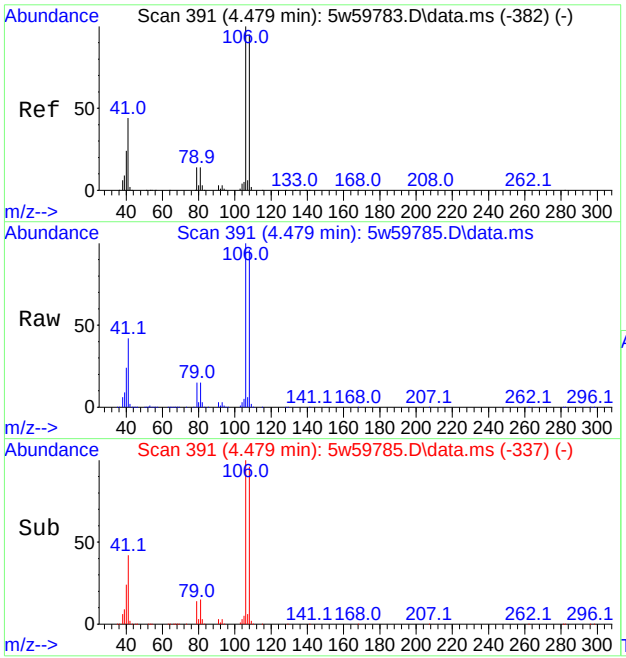


#28
ETHANOL
Concen: 23.67 PPBV
RT: 4.320 min Scan# 365
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 45 Resp: 528233

Ion	Ratio	Lower	Upper
45	100		
46	32.3	2.0	62.0
42	8.3	0.0	38.5

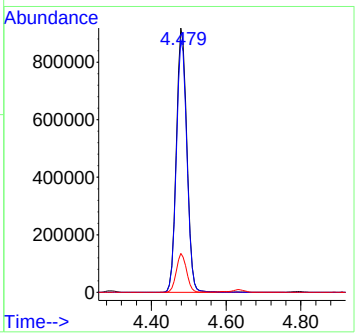


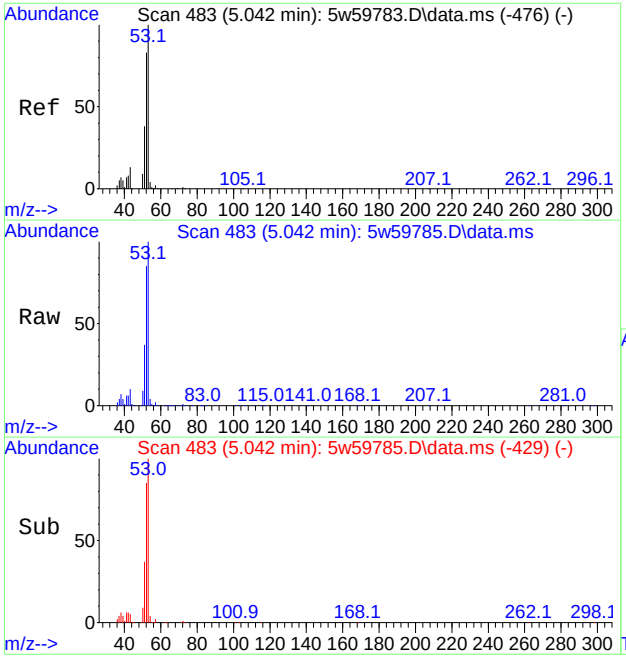


#29
BROMOETHENE
Concen: 37.63 PPBV
RT: 4.479 min Scan# 391
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 1797717

Ion	Ratio	Lower	Upper
106	100		
108	95.5	65.6	125.6
81	14.2	0.0	43.9

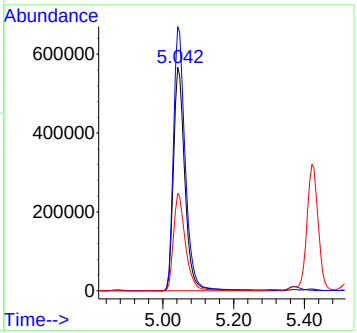


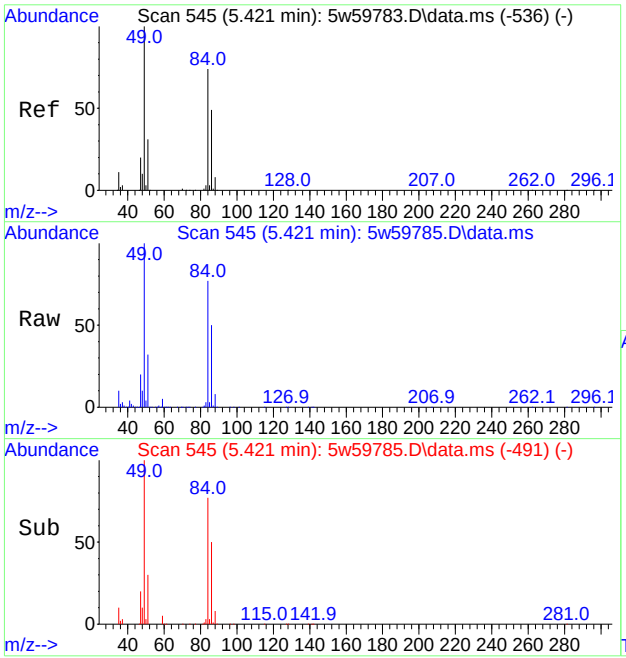


#30
ACRYLONITRILE
Concen: 36.54 PPBV
RT: 5.042 min Scan# 483
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 52 Resp: 1271597

Ion	Ratio	Lower	Upper
52	100		
53	121.6	85.8	159.4
51	45.4	32.3	60.1

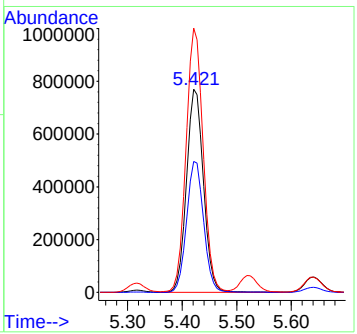


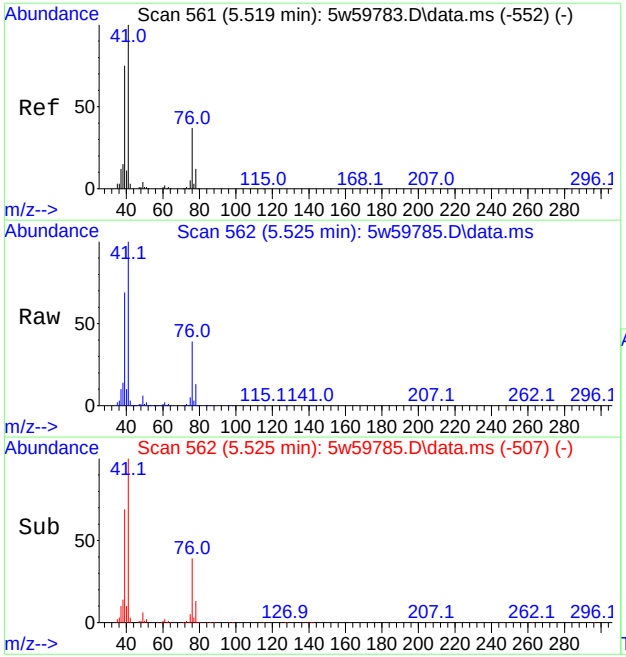


#31
METHYLENE CHLORIDE
Concen: 34.35 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 1660696

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	130.9	105.3	165.3

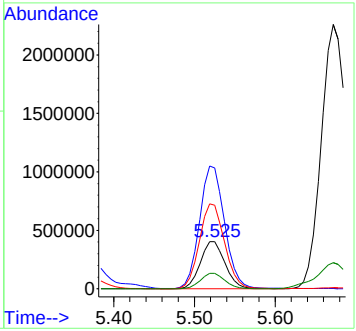


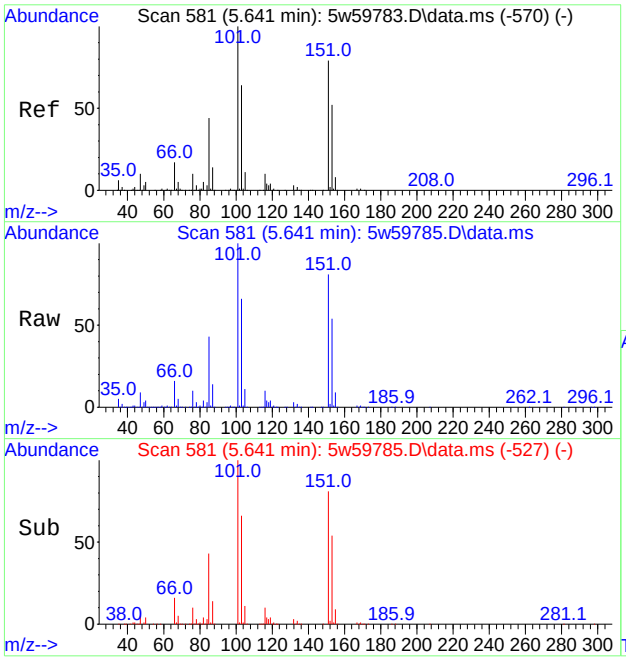


#32
3-CHLOROPROPENE
Concen: 38.85 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 861126

Ion	Ratio	Lower	Upper
76	100		
41	263.0	240.8	300.8
39	183.7	173.6	233.6
78	32.6	2.8	62.8

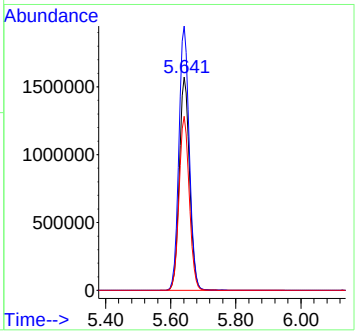


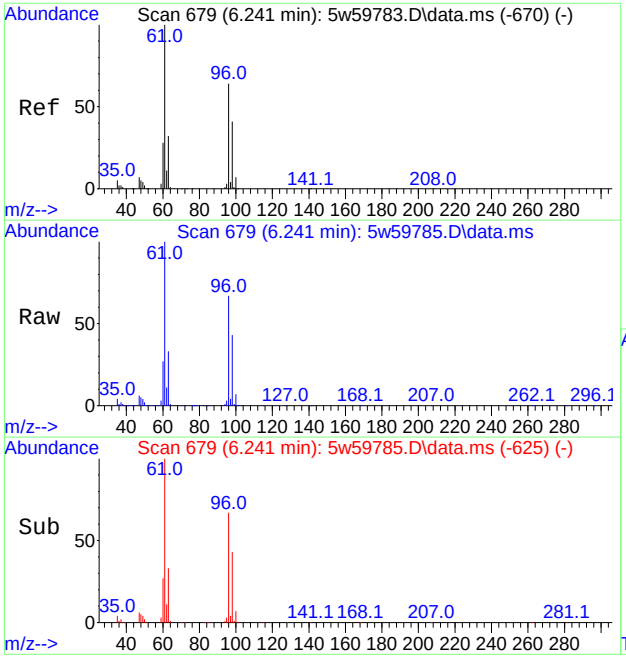


#33
FREON 113
Concen: 36.66 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:151 Resp: 3469148

Ion	Ratio	Lower	Upper
151	100		
101	125.0	97.5	157.5
103	81.5	52.5	112.5

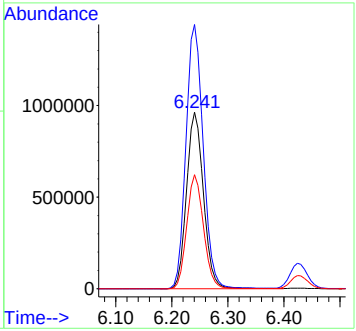


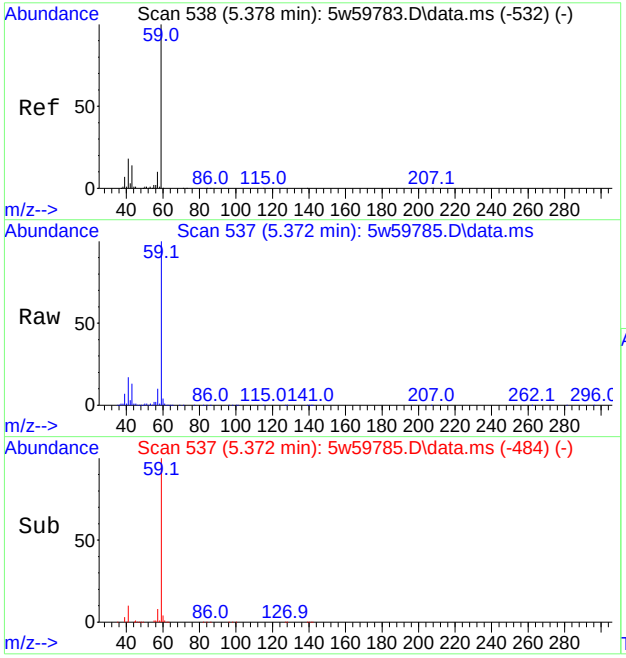


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 36.73 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2022318

Ion	Ratio	Lower	Upper
96	100		
61	152.5	126.4	186.4
98	64.2	34.1	94.1

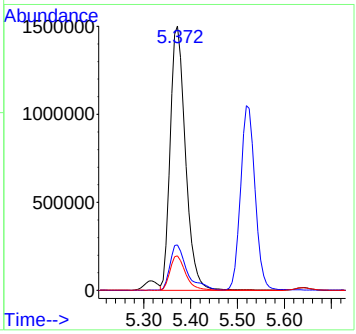


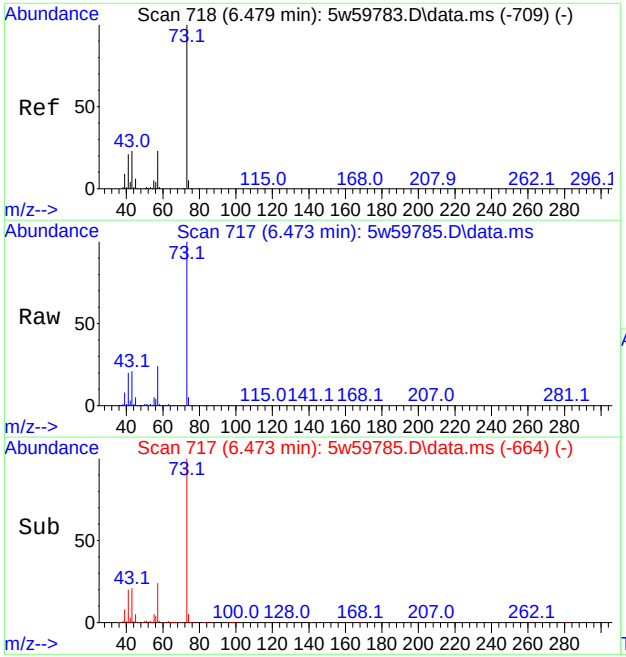


#35
TERTIARY BUTYL ALCOHOL
Concen: 29.74 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 3394797

Ion	Ratio	Lower	Upper
59	100		
41	19.2	0.0	49.3
43	13.3	0.0	44.1

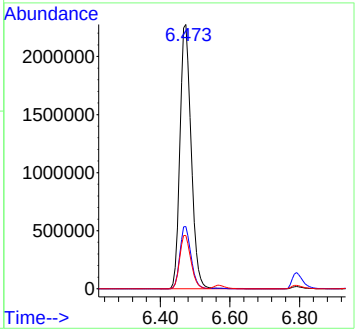


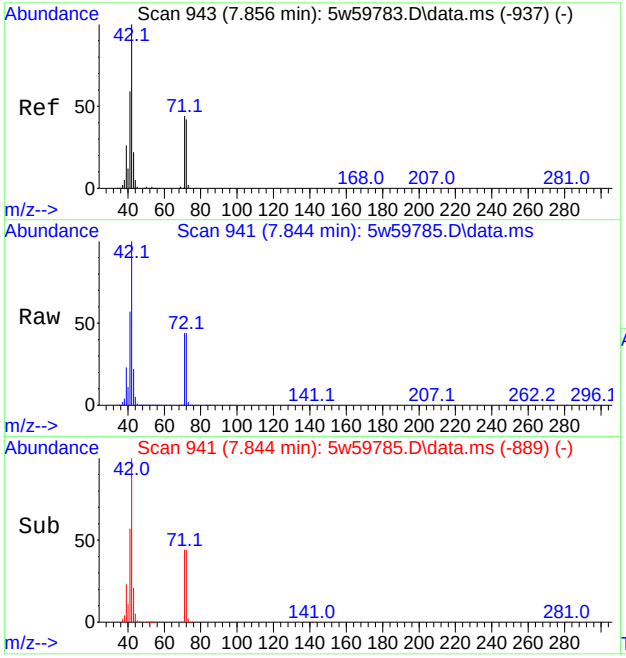


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.67 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 73 Resp: 5102873

Ion	Ratio	Lower	Upper
73	100		
57	23.4	0.0	53.1
41	20.3	0.0	50.6

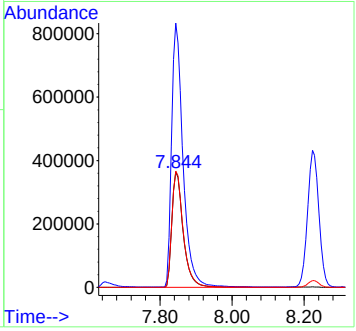


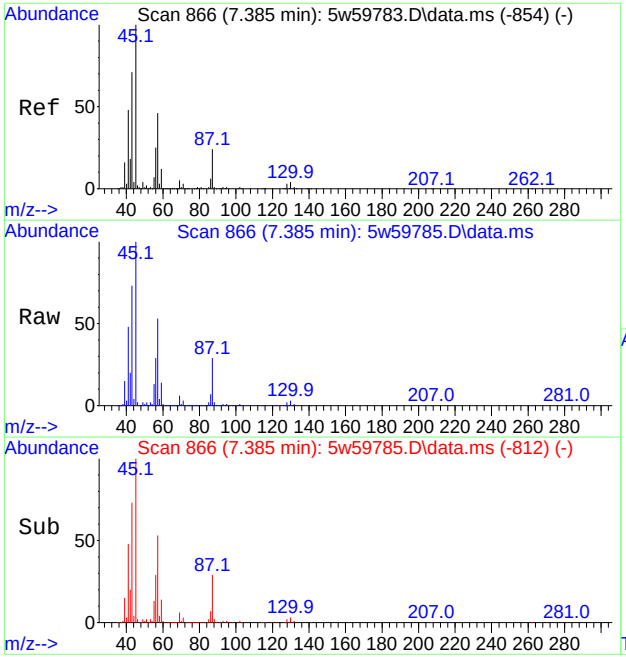


#37
TETRAHYDROFURAN
Concen: 44.15 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 801341

Ion	Ratio	Lower	Upper
72	100		
42	228.6	202.4	262.4
71	101.0	71.1	131.1

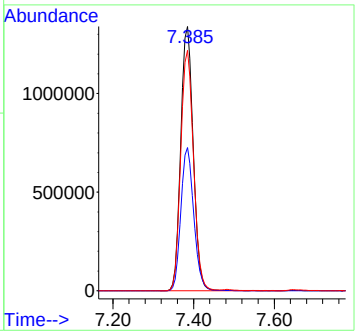


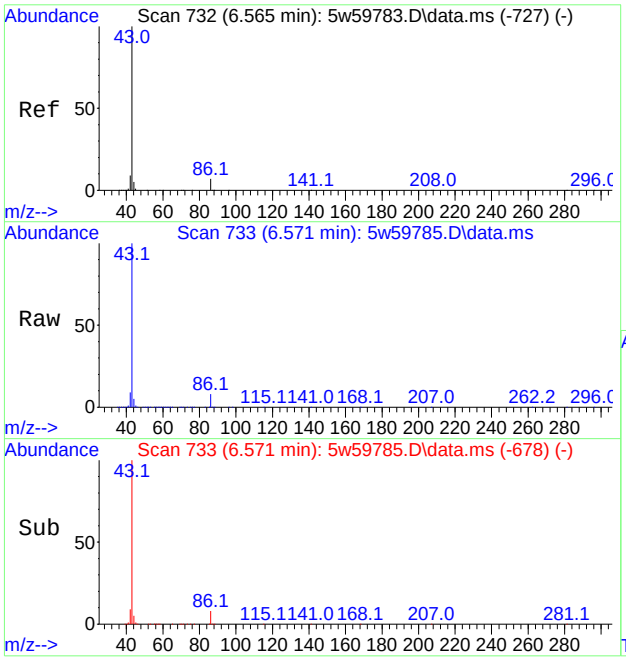


#38
HEXANE
Concen: 37.98 PPBV
RT: 7.385 min Scan# 866
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 2879156

Ion	Ratio	Lower	Upper
57	100		
56	56.3	25.9	85.9
41	93.3	74.7	134.7

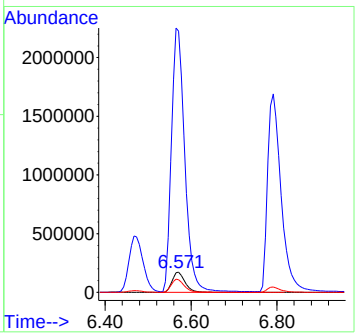


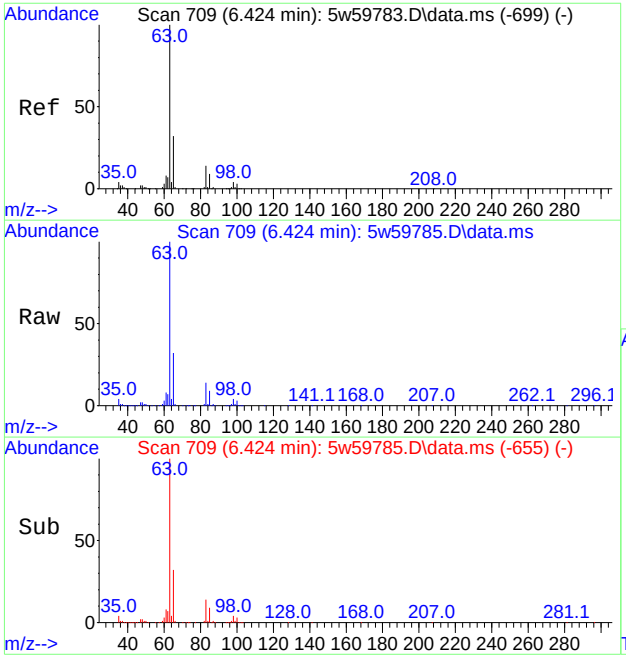


#39
VINYL ACETATE
Concen: 40.72 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 86 Resp: 363965

Ion	Ratio	Lower	Upper
86	100		
43	1327.9	1379.7	1439.7#
44	64.4	36.9	96.9

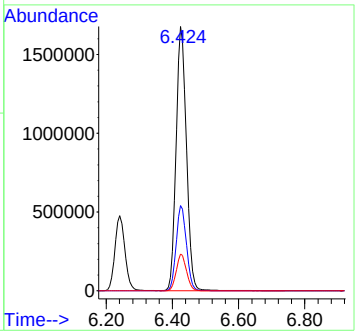


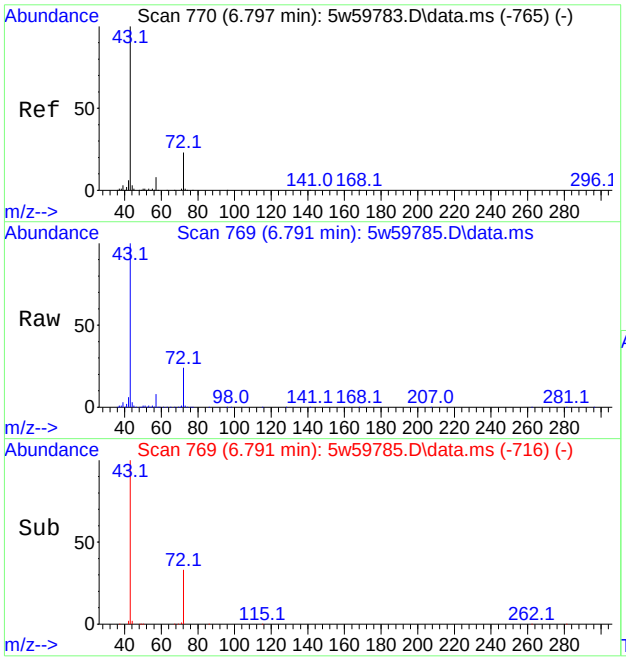


#40
1,1-DICHLOROETHANE
Concen: 36.44 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 3644940

Ion	Ratio	Lower	Upper
63	100		
65	32.2	1.7	61.7
83	13.7	0.0	43.5

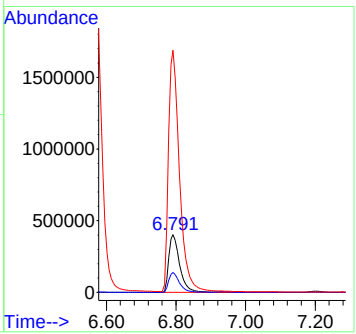


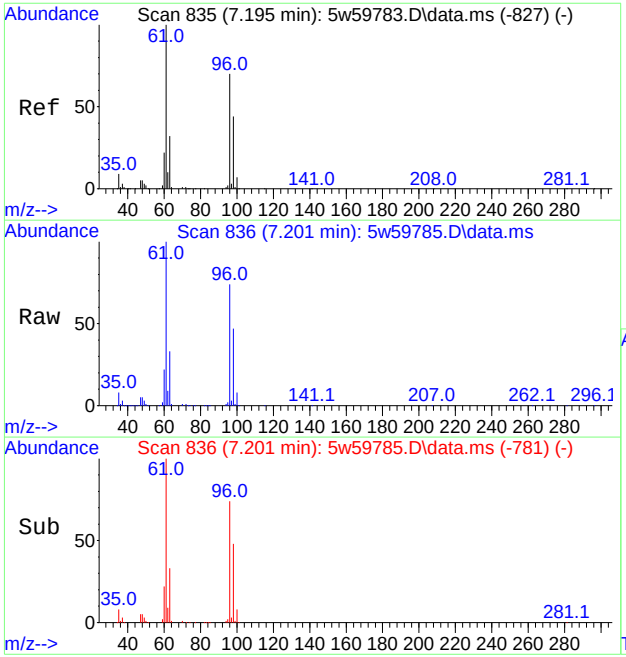


#41
METHYL ETHYL KETONE
Concen: 46.66 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 72 Resp: 879599

Ion	Ratio	Lower	Upper
72	100		
57	34.6	4.8	64.8
43	418.8	415.9	475.9

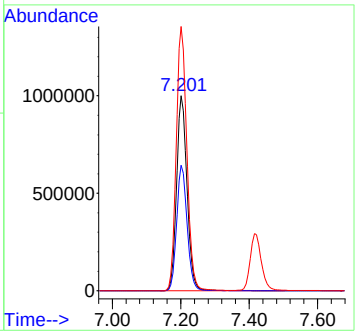


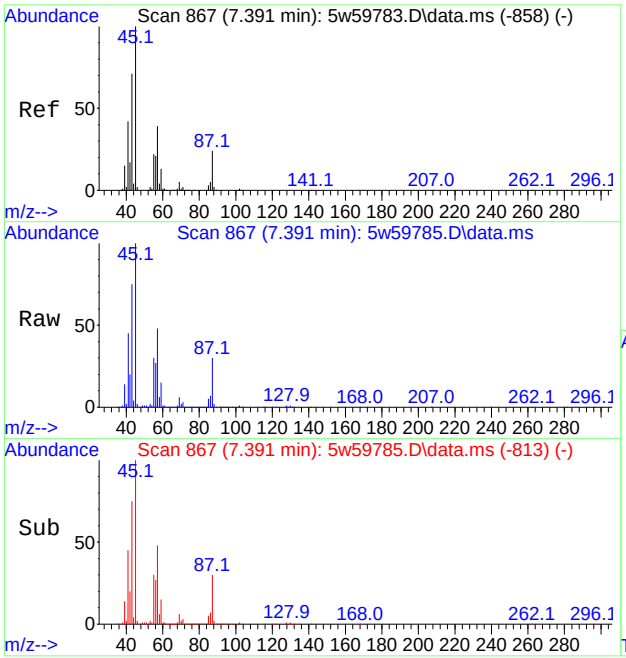


#42
cis-1,2-DICHLOROETHYLENE
Concen: 37.52 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 96 Resp: 2133694

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	137.7	111.5	171.5

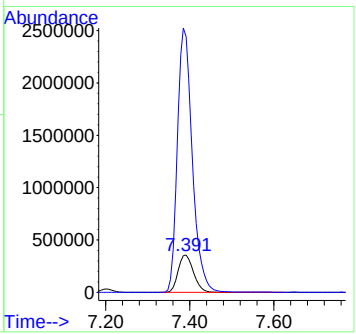


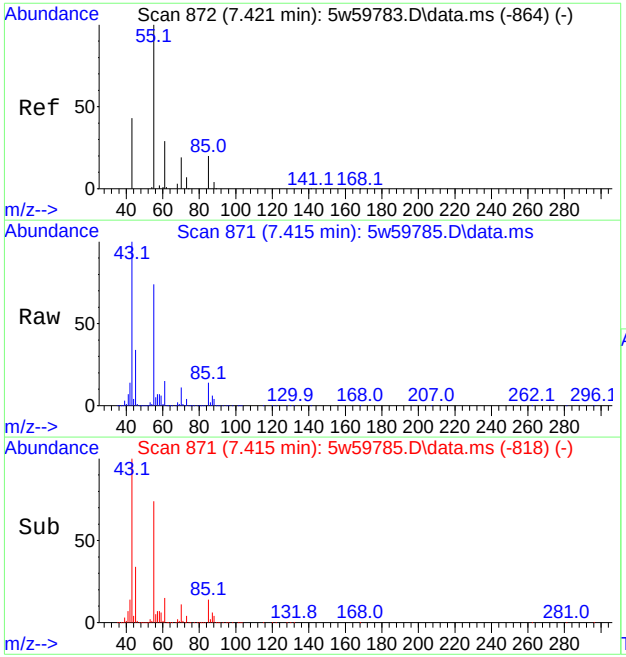


#43
DIISOPROPYL ETHER
Concen: 43.95 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 59 Resp: 905463

Ion	Ratio	Lower	Upper
59	100		
45	688.0	720.9	780.9#

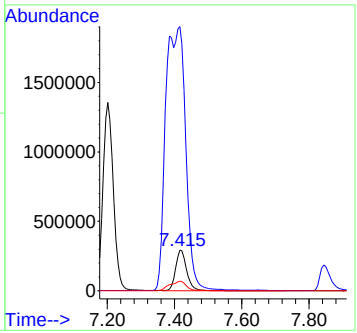


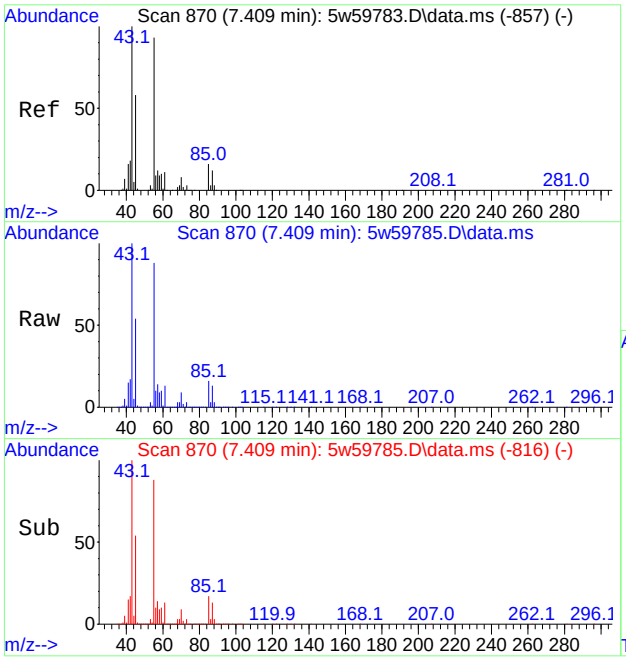


#44
ETHYL ACETATE
Concen: 43.14 PPBV m
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 61 Resp: 671399

Ion	Ratio	Lower	Upper
61	100		
43	592.5	560.5	620.5
88	35.9	4.5	64.5

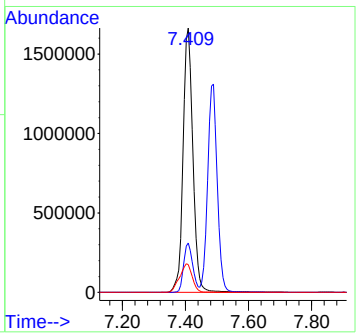


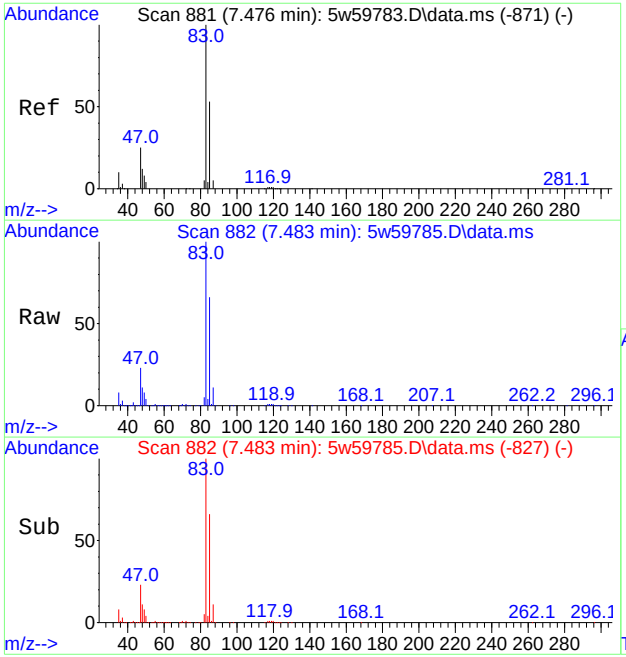


#45
METHYL ACRYLATE
Concen: 40.28 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 3595052

Ion	Ratio	Lower	Upper
55	100		
85	17.5	10.9	20.3
58	14.0	9.4	17.6

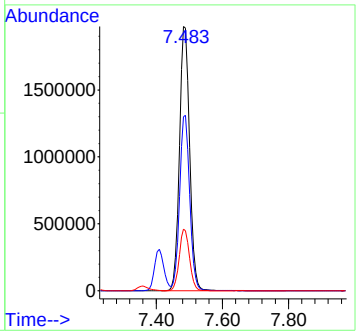


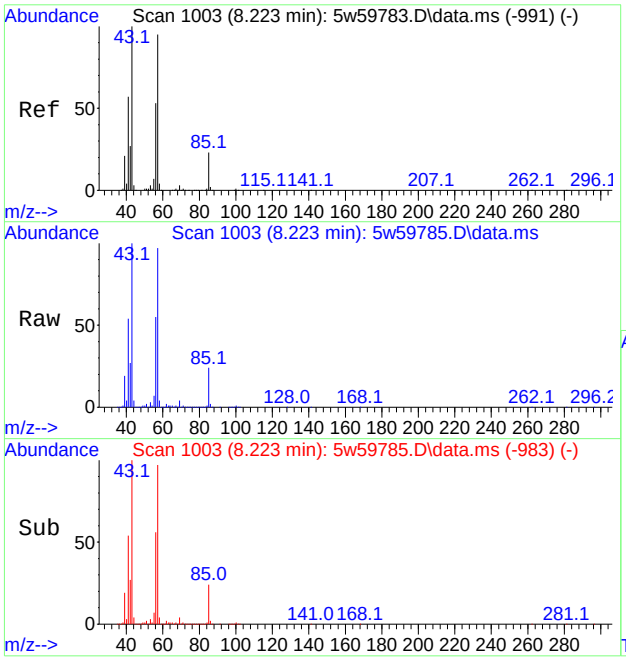


#46
CHLOROFORM
Concen: 36.42 PPBV
RT: 7.483 min Scan# 882
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4216969

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.6	95.6
47	23.6	0.0	55.2

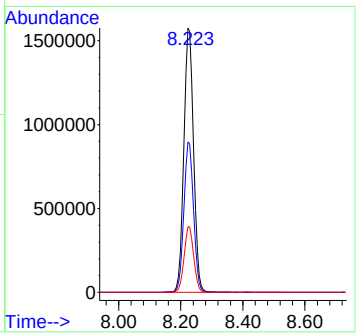


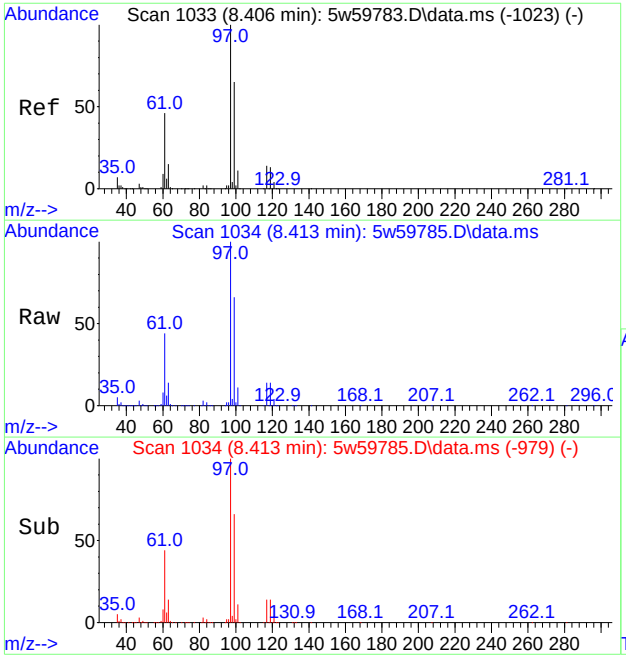


#47
2,4-DIMETHYLPENTANE
Concen: 38.76 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 3428957

Ion	Ratio	Lower	Upper
57	100		
56	57.1	26.5	86.5
85	24.6	0.0	53.8

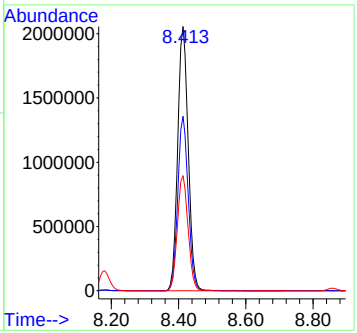


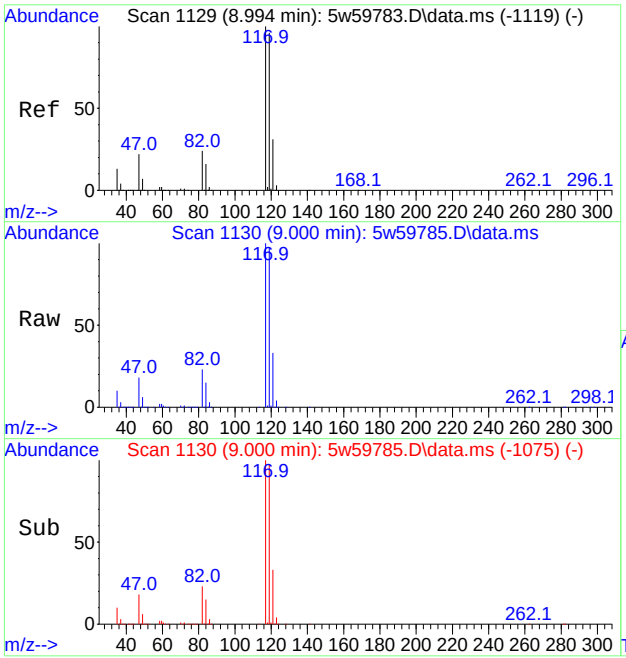


#48
1,1,1-TRICHLOROETHANE
Concen: 35.48 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 97 Resp: 4473116

Ion	Ratio	Lower	Upper
97	100		
99	65.5	34.8	94.8
61	44.3	15.8	75.8

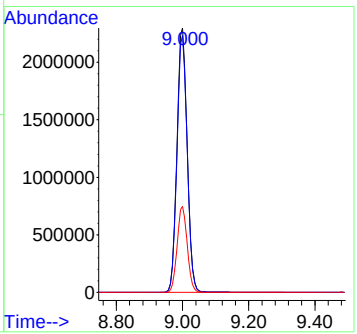


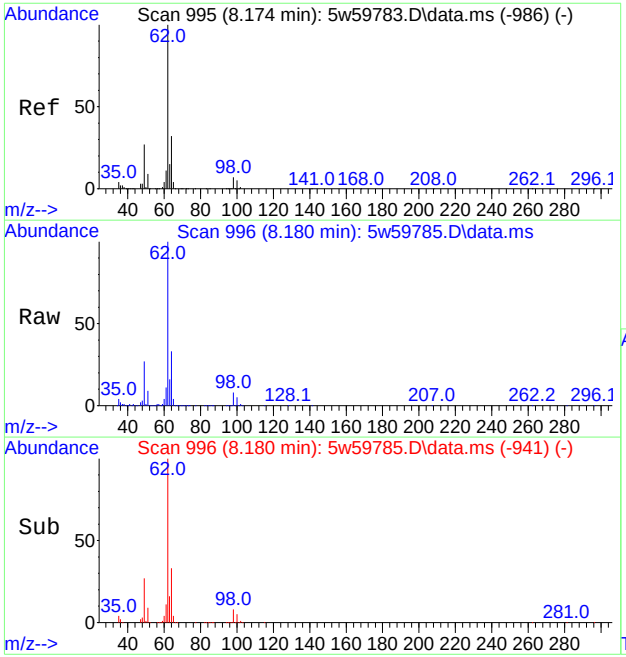


#49
CARBON TETRACHLORIDE
Concen: 35.62 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4942966

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.9	126.9
121	32.2	1.3	61.3

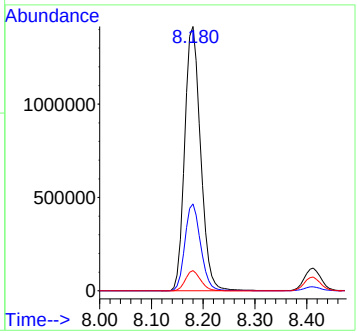


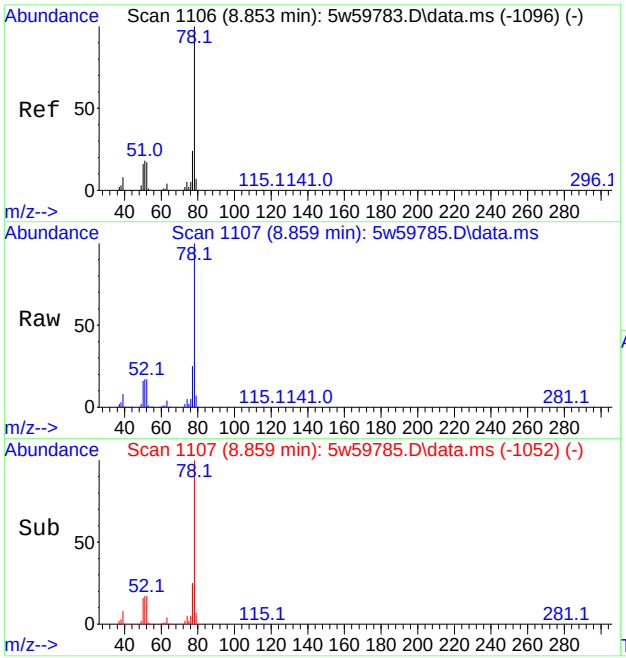


#50
1,2-DICHLOROETHANE
Concen: 37.08 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 62 Resp: 3028960

Ion	Ratio	Lower	Upper
62	100		
64	32.6	2.3	62.3
98	7.4	0.0	36.9

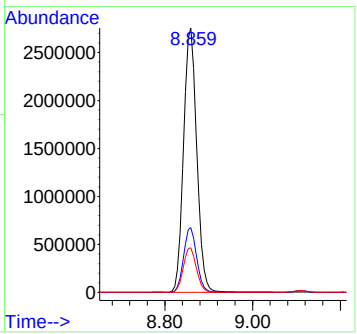


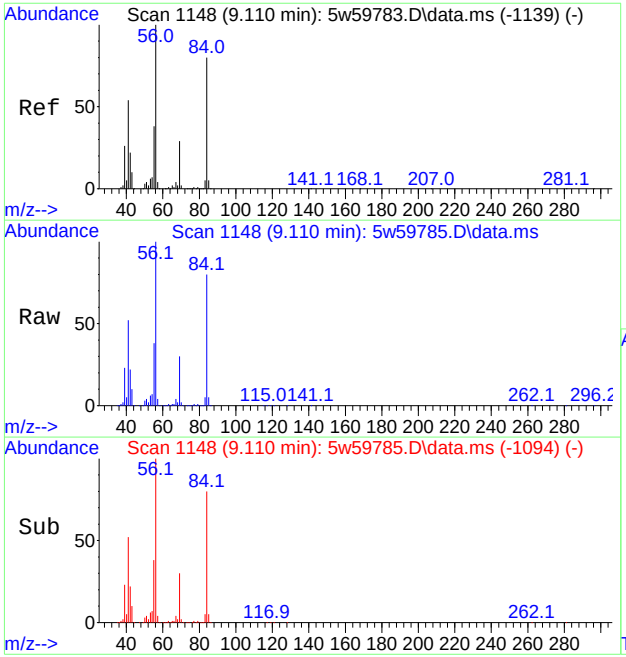


#52
BENZENE
Concen: 44.75 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 78 Resp: 5773385

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	53.8
52	16.9	0.0	46.9

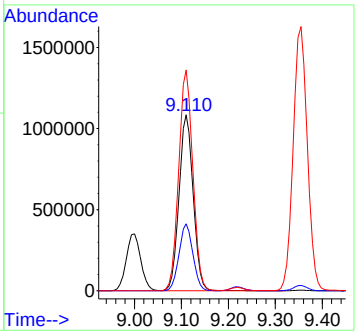


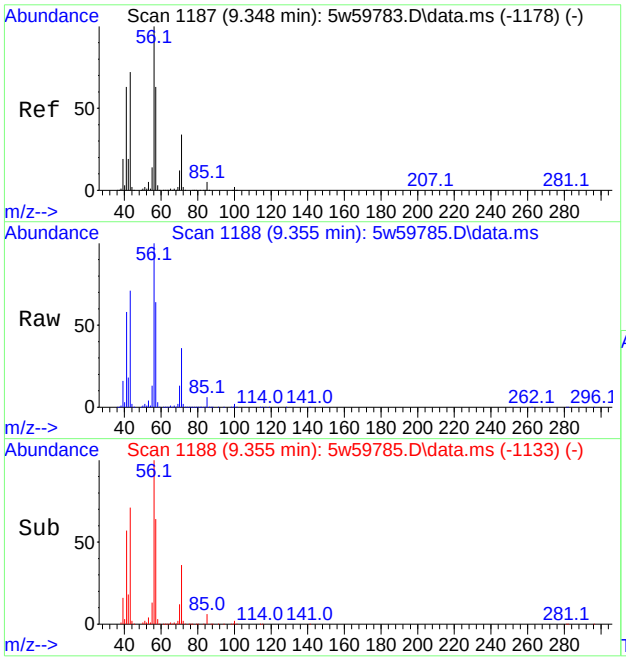


#53
CYCLOHEXANE
Concen: 44.64 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 84 Resp: 2282258

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	125.1	98.2	158.2

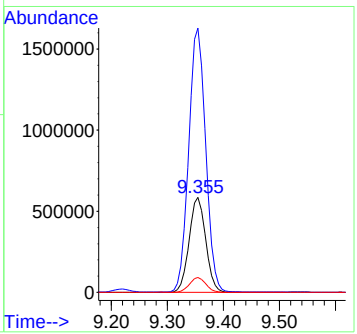


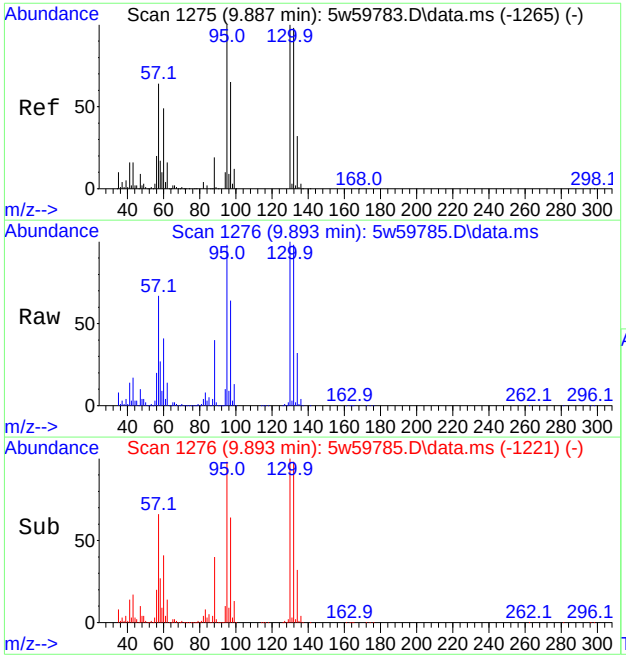


#54
2,3-DIMETHYLPENTANE
Concen: 46.80 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 71 Resp: 1205121

Ion	Ratio	Lower	Upper
71	100		
56	284.5	264.6	324.6
85	15.5	0.0	45.3

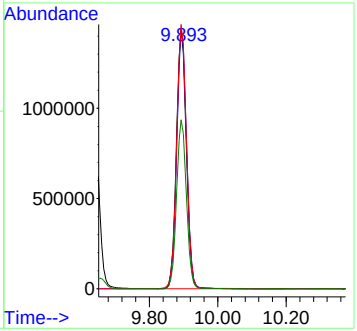


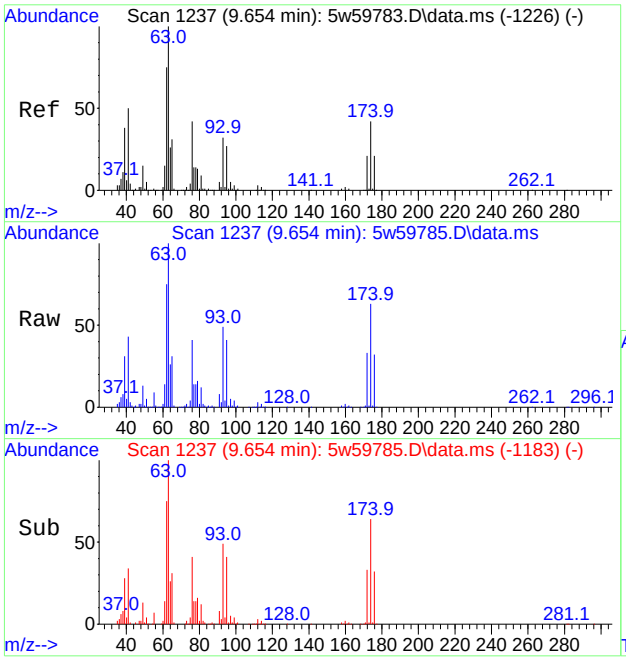


#55
TRICHLOROETHYLENE
Concen: 41.87 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 95 Resp: 2886125

Ion	Ratio	Lower	Upper
95	100		
132	99.9	69.0	129.0
130	102.3	70.6	130.6
97	65.1	34.6	94.6

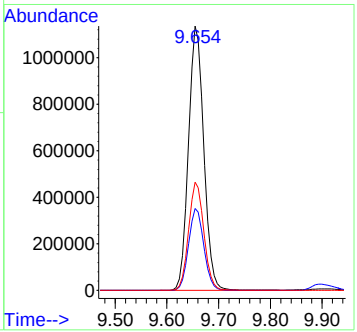


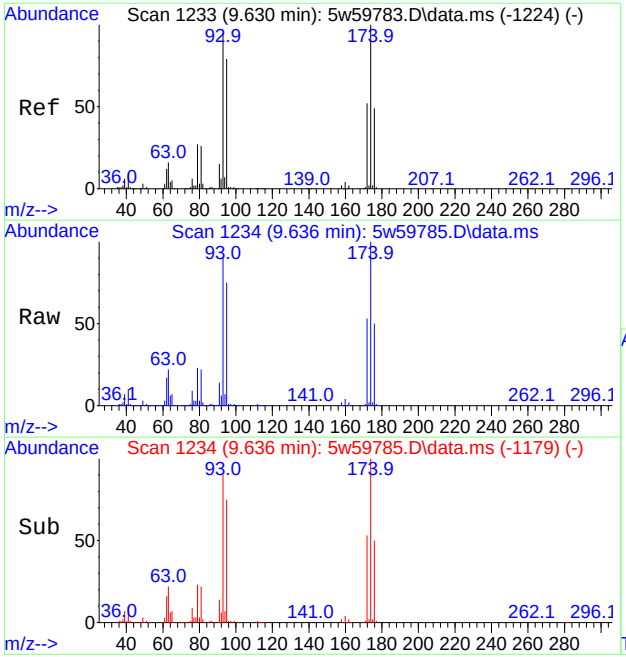


#56
1,2-DICHLOROPROPANE
Concen: 42.47 PPBV
RT: 9.654 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 63 Resp: 2329113

Ion	Ratio	Lower	Upper
63	100		
65	31.1	0.5	60.5
76	40.9	11.5	71.5

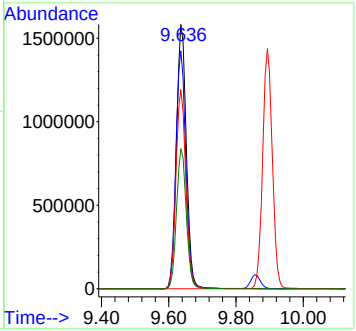


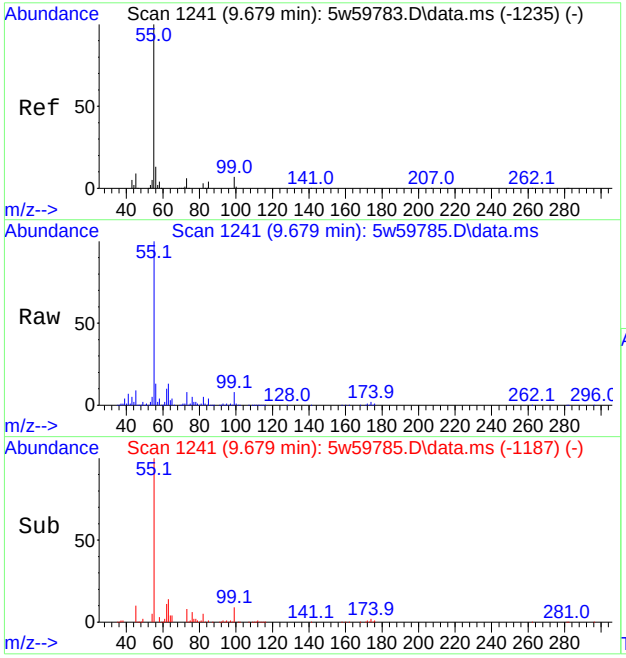


#57
DIBROMOMETHANE
Concen: 42.48 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:174 Resp: 3208165

Ion	Ratio	Lower	Upper
174	100		
93	90.6	65.0	120.6
95	76.0	54.5	101.1
172	52.7	36.3	67.5

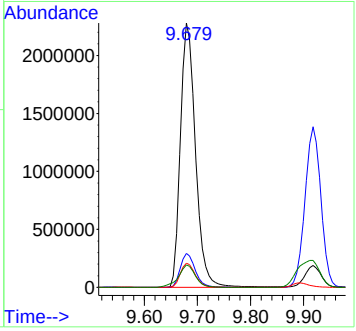


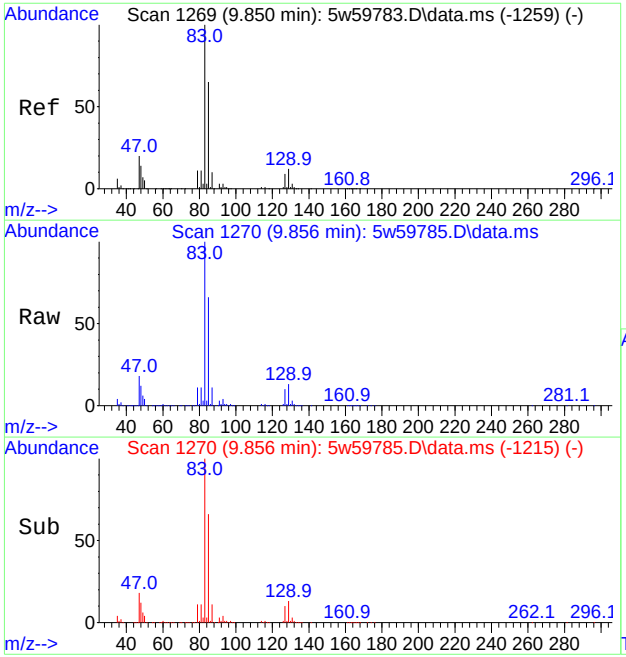


#58
ETHYL ACRYLATE
Concen: 46.25 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 55 Resp: 4517787

Ion	Ratio	Lower	Upper
55	100		
56	12.6	8.6	16.0
45	9.1	6.6	12.2
99	9.6	6.4	12.0

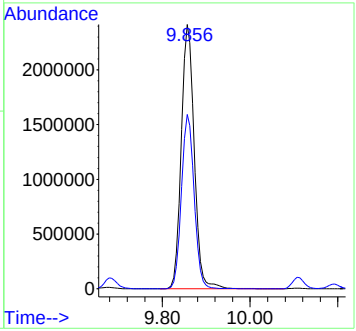


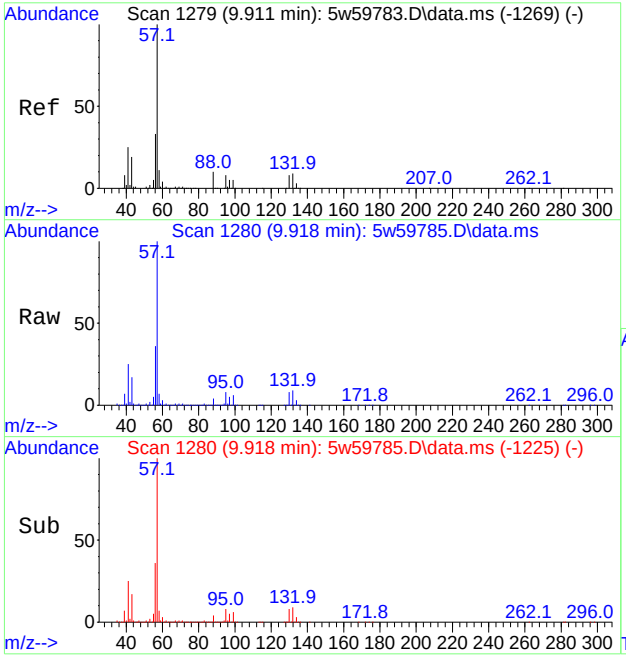


#59
BROMODICHLOROMETHANE
Concen: 40.63 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 4951368

Ion	Ratio	Lower	Upper
83	100		
85	64.6	33.4	93.4

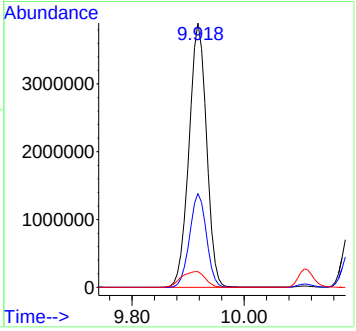


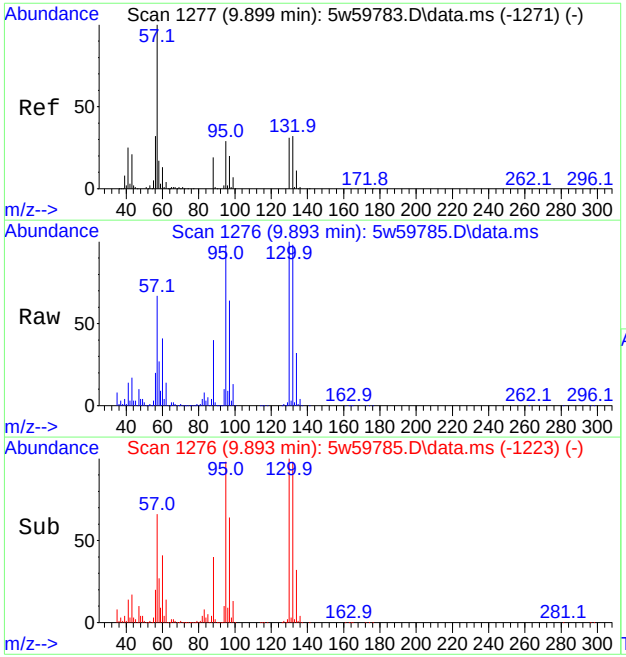


#60
2,2,4-TRIMETHYLPENTANE
Concen: 38.93 PPBV
RT: 9.918 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 57 Resp: 8459039

Ion	Ratio	Lower	Upper
57	100		
56	34.0	2.5	62.5
99	8.2	0.0	37.3

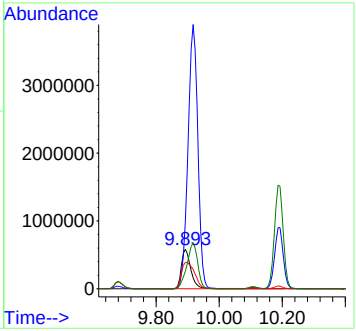


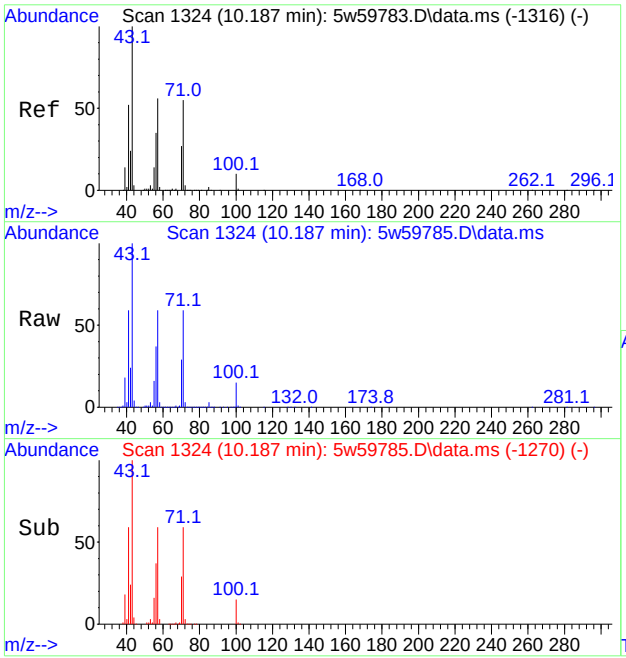


#61
1,4-DIOXANE
Concen: 45.35 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 88 Resp: 1215269

Ion	Ratio	Lower	Upper
88	100		
57	167.4	494.2	554.2#
58	67.1	58.9	118.9
43	43.9	78.3	138.3#

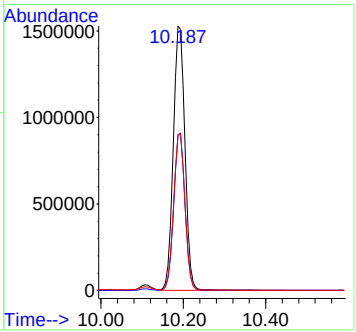


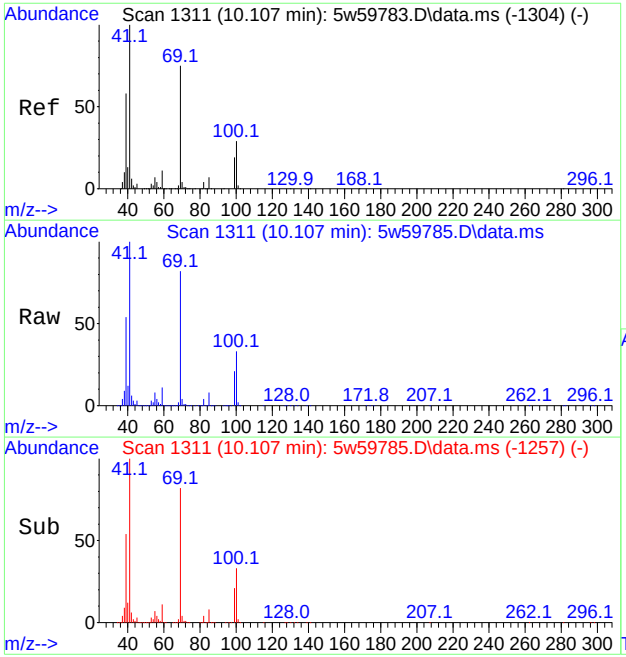


#62
HEPTANE
Concen: 37.77 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 2988992

Ion	Ratio	Lower	Upper
43	100		
71	57.8	24.5	84.5
57	58.3	26.2	86.2

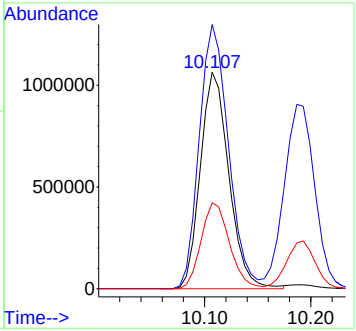


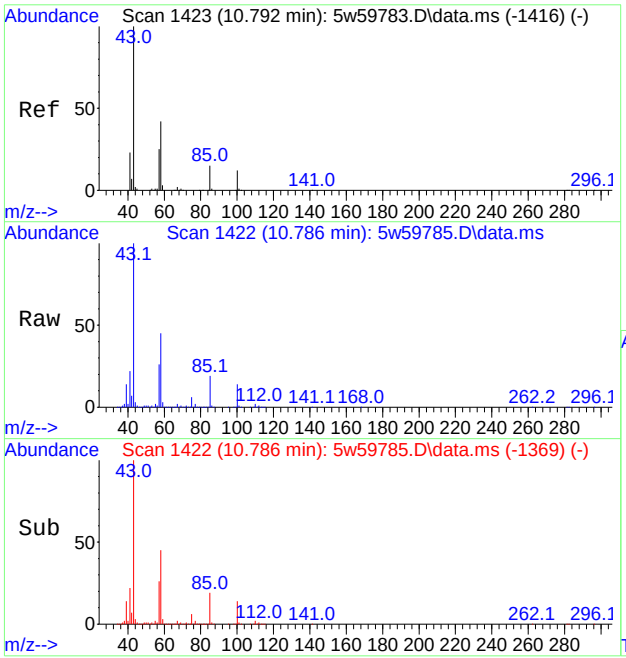


#63
METHYL METHACRYLATE
Concen: 49.92 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 1989625

Ion	Ratio	Lower	Upper
69	100		
41	124.2	95.3	155.3
100	39.6	6.3	66.3

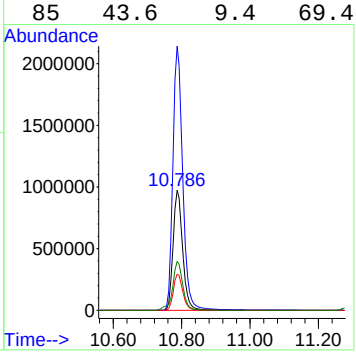


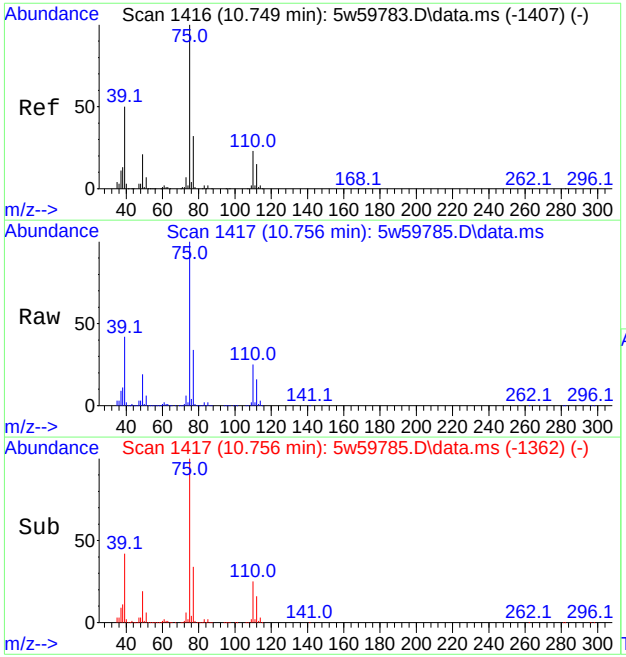


#64
METHYL ISOBUTYL KETONE
Concen: 47.23 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 1921879

Ion	Ratio	Lower	Upper
58	100		
43	225.1	209.2	269.2
100	30.1	0.0	58.8
85	43.6	9.4	69.4

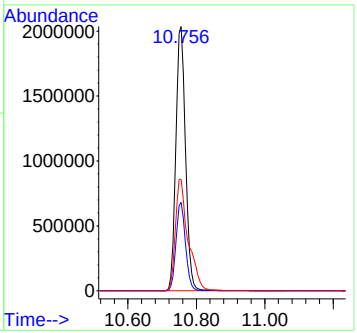


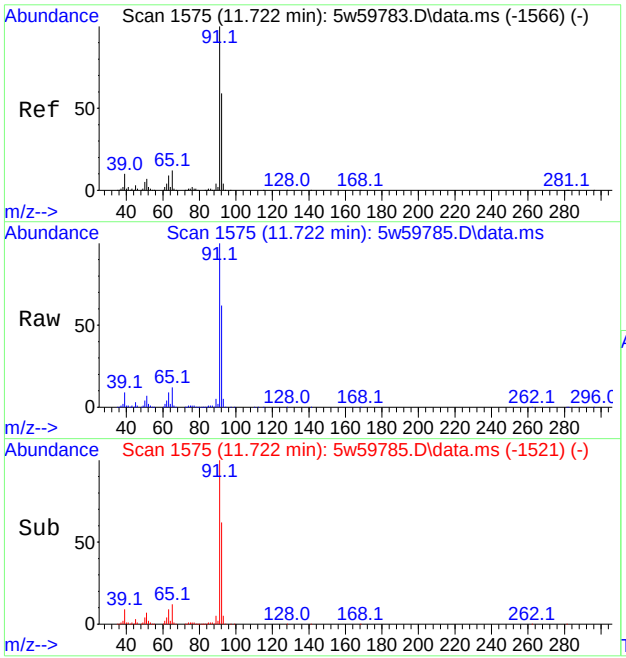


#65
cis-1,3-DICHLOROPROPENE
Concen: 47.39 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4023307

Ion	Ratio	Lower	Upper
75	100		
77	33.0	2.2	62.2
39	56.0	34.3	94.3

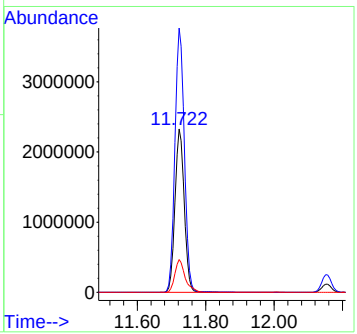


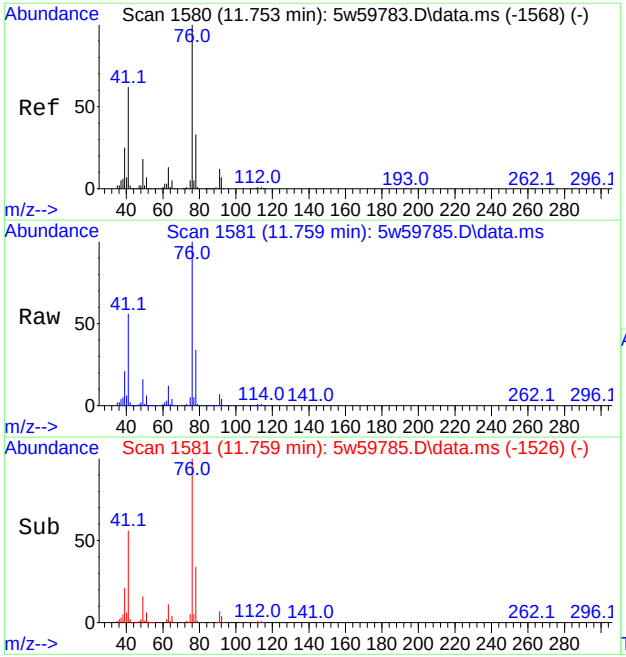


#66
TOLUENE
Concen: 47.83 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 92 Resp: 4414753

Ion	Ratio	Lower	Upper
92	100		
91	164.9	140.1	200.1
65	22.5	0.0	53.1

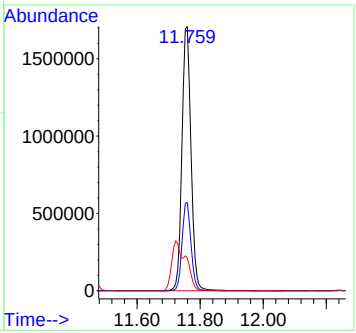


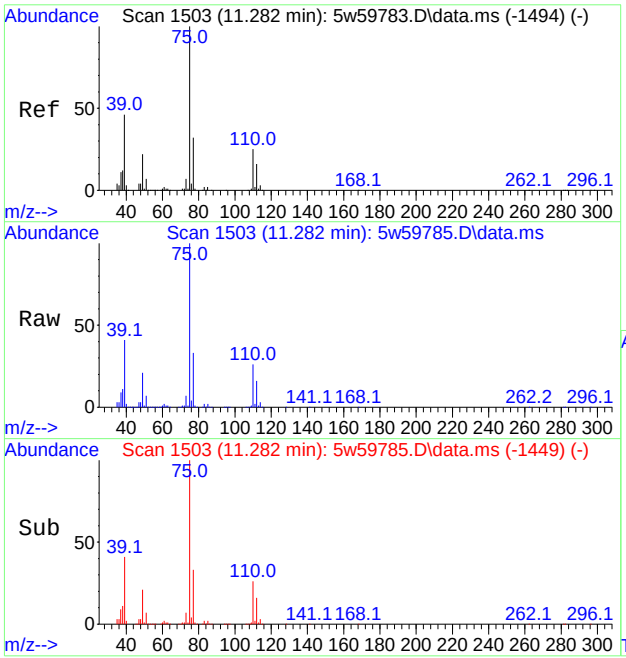


#67
1,3-DICHLOROPROPANE
Concen: 44.02 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 76 Resp: 3397591

Ion	Ratio	Lower	Upper
76	100		
78	33.1	23.2	43.0
63	11.1	7.1	13.1

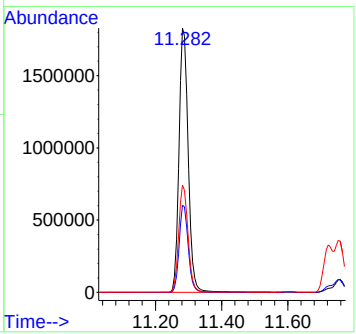


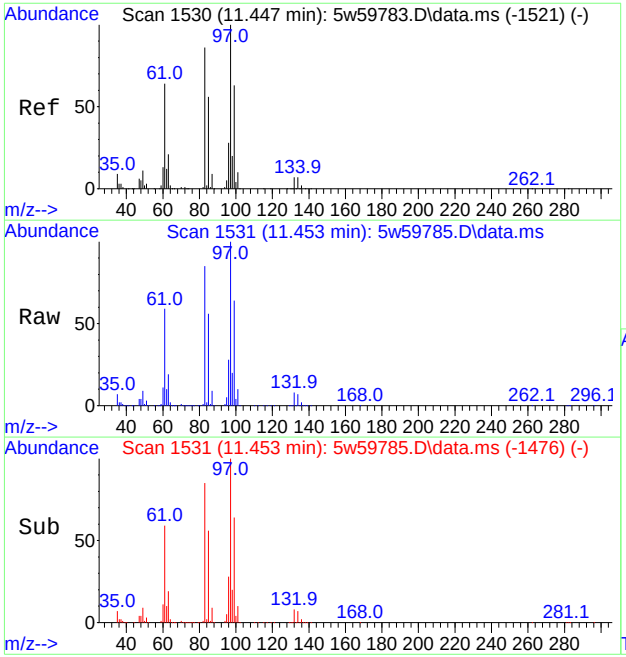


#68
trans-1,3-DICHLOROPROPENE
Concen: 45.59 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 3536223

Ion	Ratio	Lower	Upper
75	100		
77	32.7	1.6	61.6
39	41.6	16.1	76.1

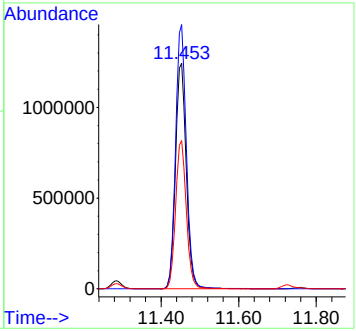


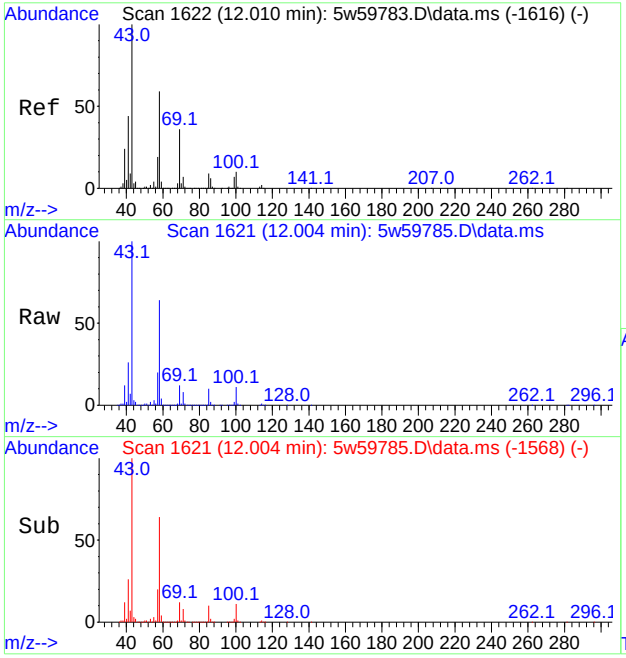


#69
1,1,2-TRICHLOROETHANE
Concen: 47.73 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 2422259

Ion	Ratio	Lower	Upper
83	100		
97	116.5	86.3	146.3
85	65.3	35.3	95.3

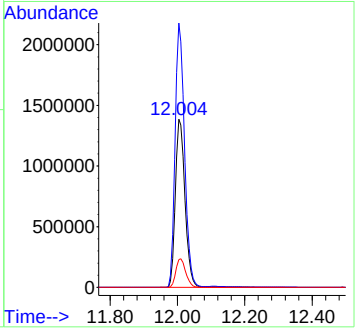


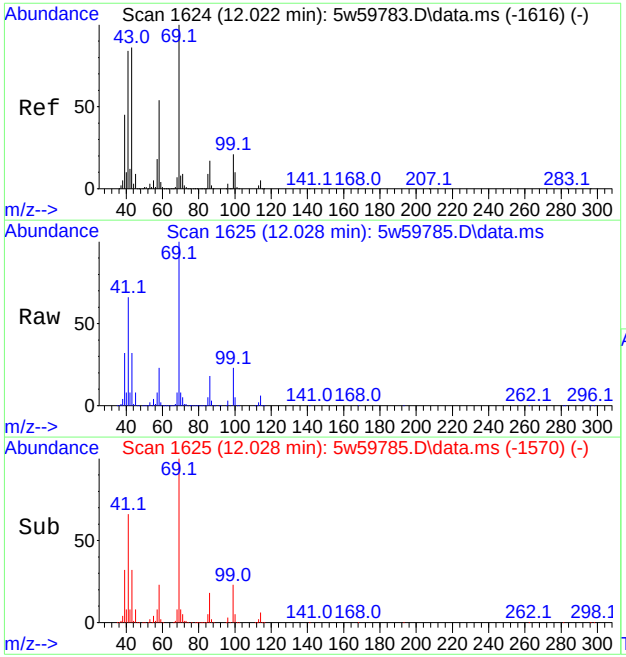


#71
2-HEXANONE
Concen: 43.59 PPBV
RT: 12.004 min Scan# 1621
Delta R.T. -0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 58 Resp: 2753205

Ion	Ratio	Lower	Upper
58	100		
43	154.2	137.2	197.2
100	17.6	0.0	46.9

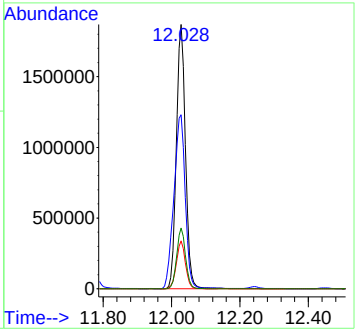


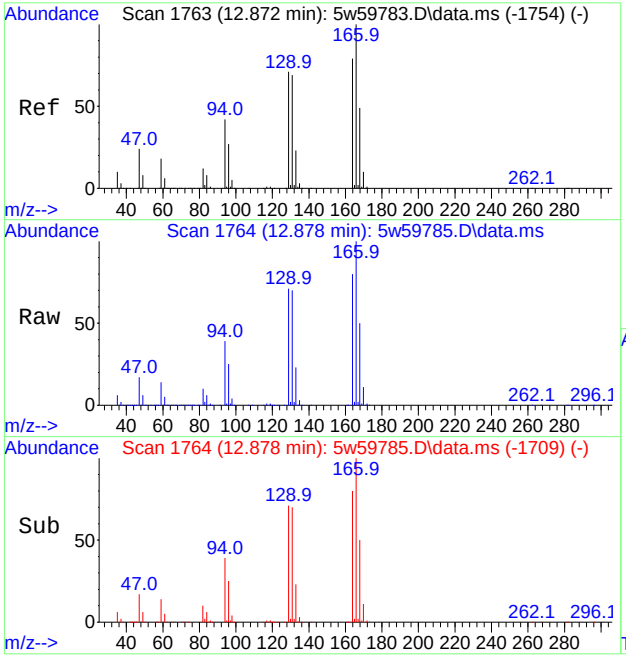


#72
ETHYL METHACRYLATE
Concen: 43.20 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 69 Resp: 3484828

Ion	Ratio	Lower	Upper
69	100		
41	81.9	64.0	119.0
86	18.0	12.0	22.4
99	22.5	15.0	27.8

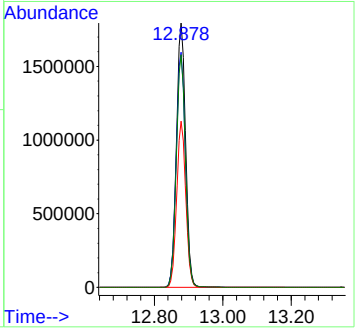


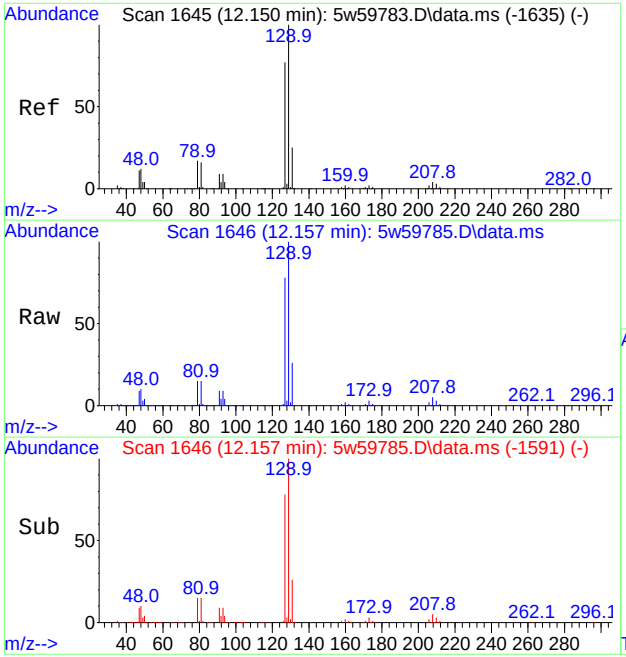


#73
TETRACHLOROETHYLENE
Concen: 35.84 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:164 Resp: 3370251

Ion	Ratio	Lower	Upper
164	100		
129	89.6	59.7	119.7
168	62.4	32.2	92.2
131	87.9	57.8	117.8

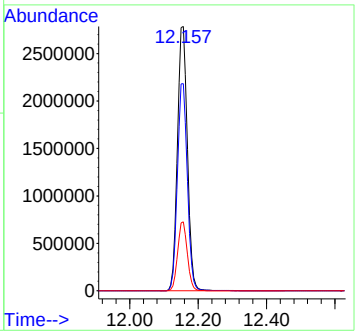


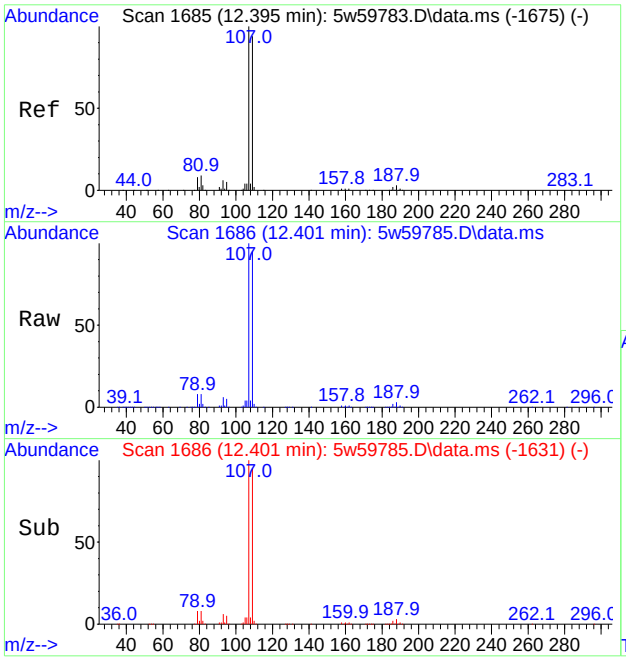


#74
DIBROMOCHLOROMETHANE
Concen: 35.57 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:129 Resp: 5622668

Ion	Ratio	Lower	Upper
129	100		
127	78.3	47.1	107.1
131	25.5	0.0	54.5

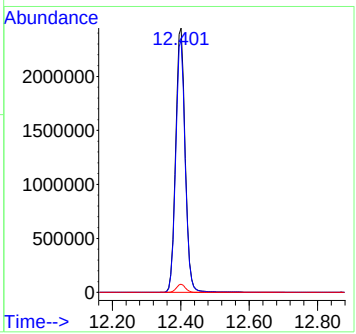


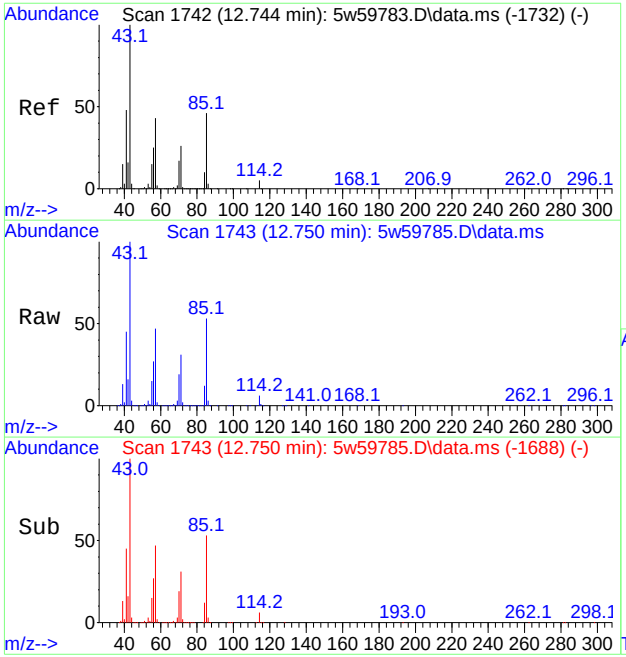


#75
1,2-DIBROMOETHANE
Concen: 40.93 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:107 Resp: 4750806

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

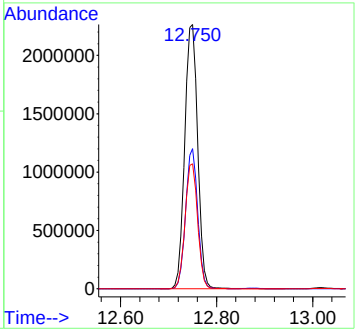


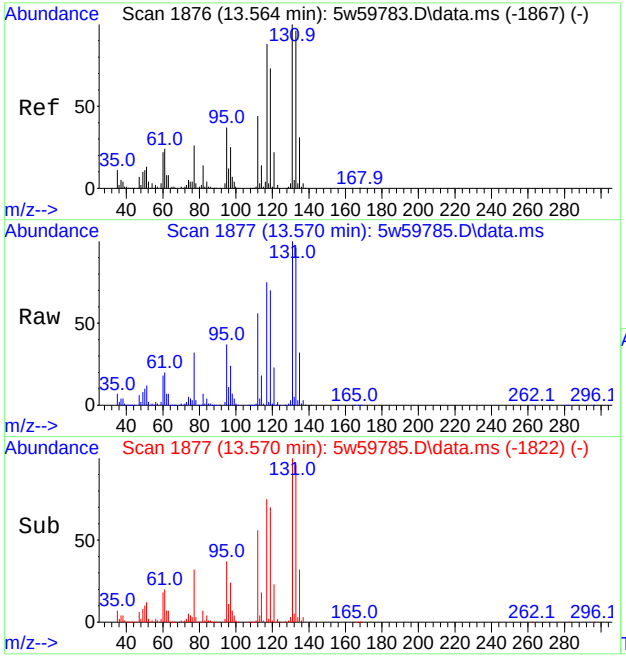


#76
OCTANE
Concen: 32.56 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4235557

Ion	Ratio	Lower	Upper
43	100		
85	49.4	14.6	74.6
57	46.0	13.7	73.7

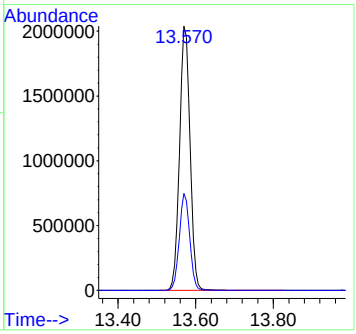


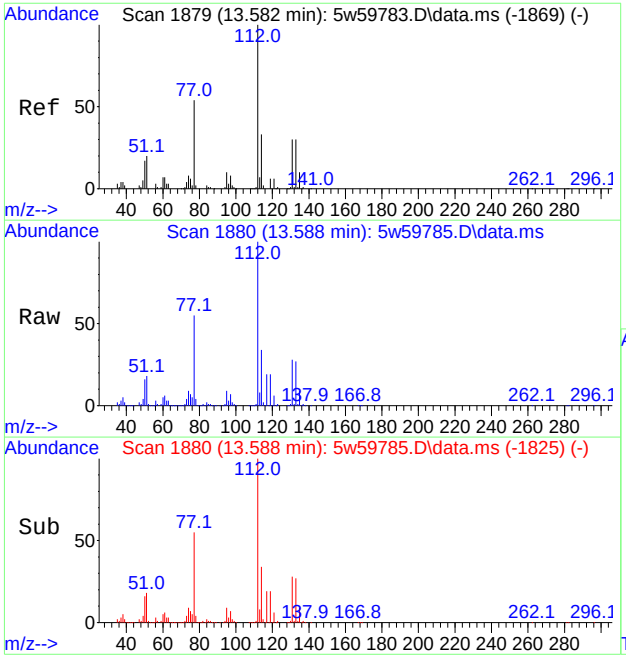


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 37.26 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:131 Resp: 3854037

Ion	Ratio	Lower	Upper
131	100		
95	36.3	6.5	66.5

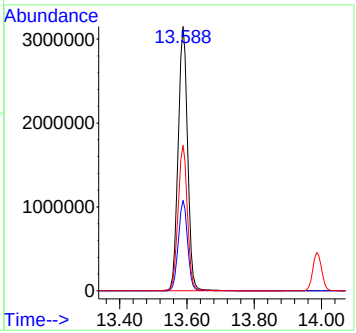


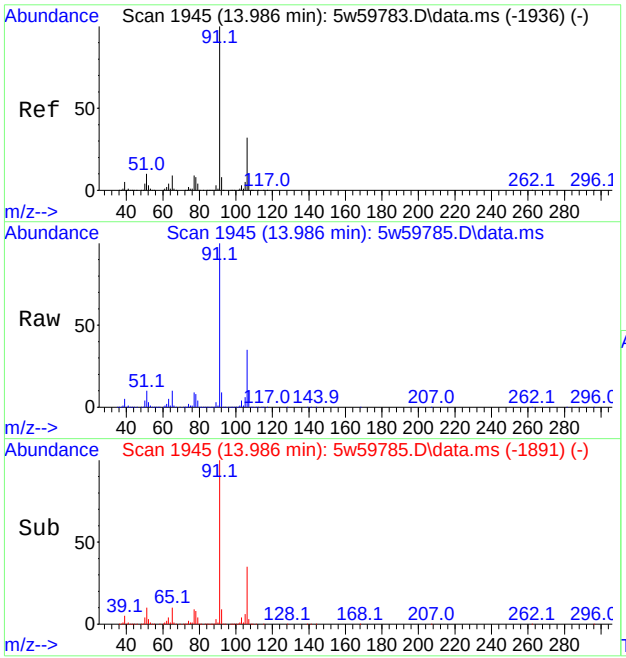


#78
CHLOROBENZENE
Concen: 35.87 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:112 Resp: 6101033

Ion	Ratio	Lower	Upper
112	100		
114	33.7	2.6	62.6
77	55.0	25.4	85.4

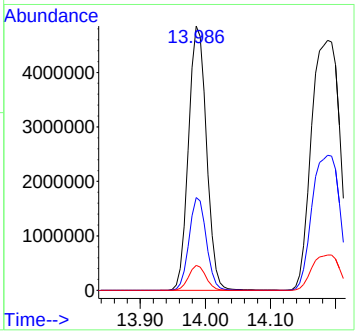


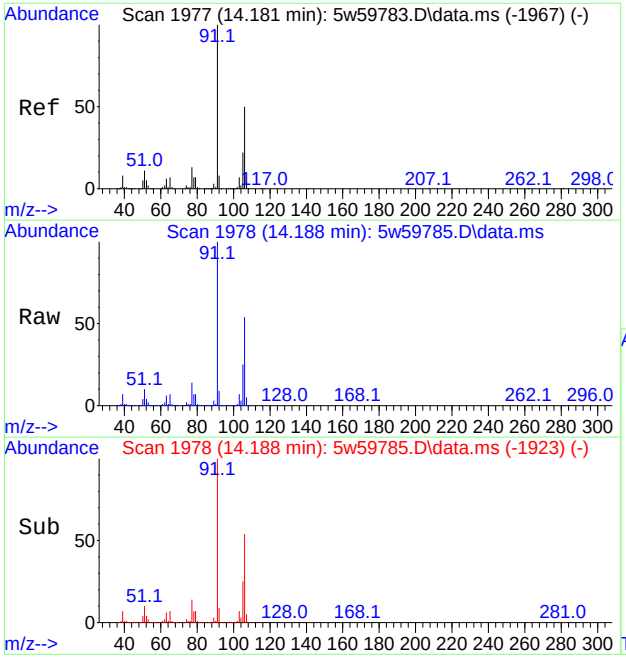


#79
ETHYLBENZENE
Concen: 38.31 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 9323124

Ion	Ratio	Lower	Upper
91	100		
106	33.7	1.3	61.3
77	9.0	0.0	38.6

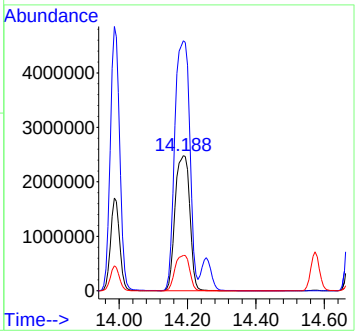


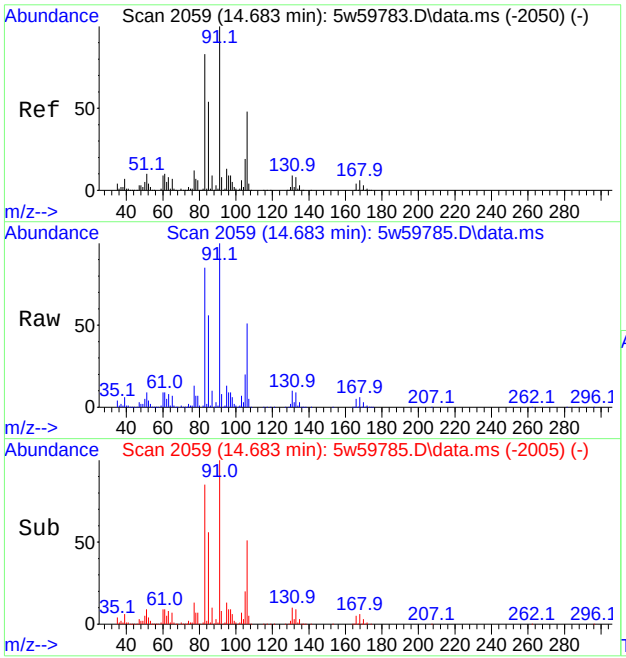


#80
m,p-XYLENE
Concen: 79.24 PPBV
RT: 14.188 min Scan# 1978
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 7385992

Ion	Ratio	Lower	Upper
106	100		
91	184.9	171.0	231.0
77	26.2	0.0	56.7

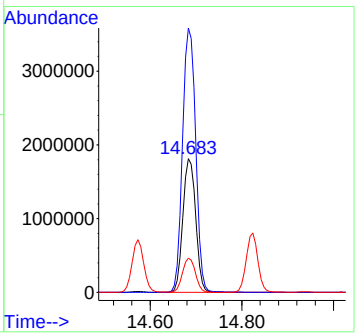


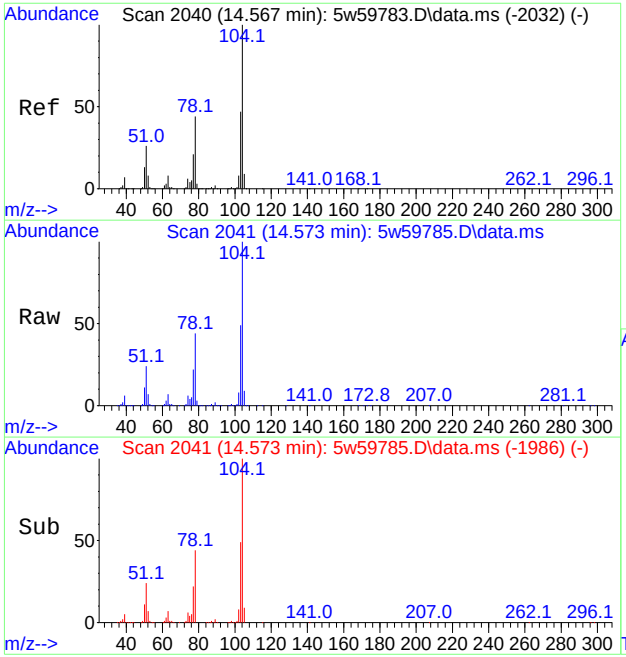


#81
o-XYLENE
Concen: 41.16 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:106 Resp: 3531781

Ion	Ratio	Lower	Upper
106	100		
91	202.6	181.6	241.6
77	25.7	0.0	56.6

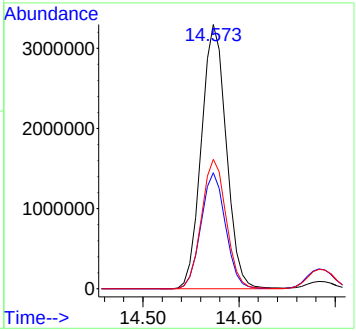


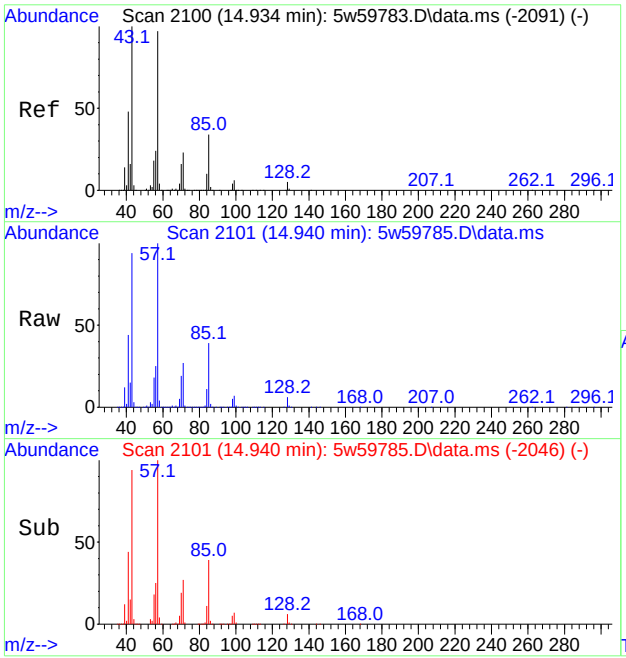


#82
STYRENE
Concen: 45.55 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:104 Resp: 5945197

Ion	Ratio	Lower	Upper
104	100		
78	43.2	13.3	73.3
103	48.5	17.2	77.2

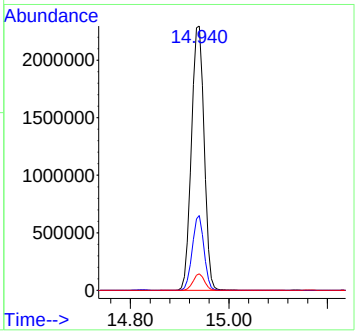


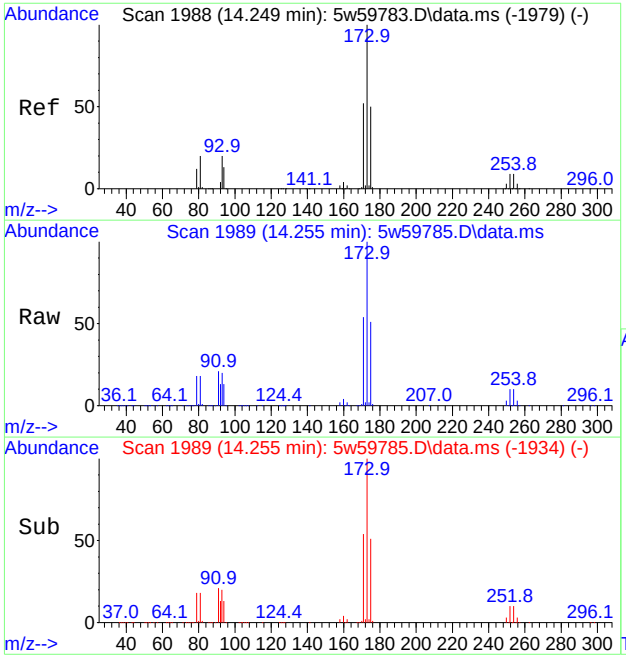


#83
NONANE
Concen: 31.95 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 43 Resp: 4120325

Ion	Ratio	Lower	Upper
43	100		
71	26.0	0.0	52.7
128	5.7	0.0	34.7

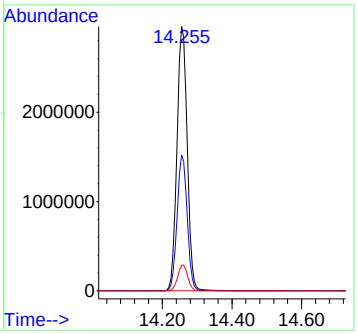


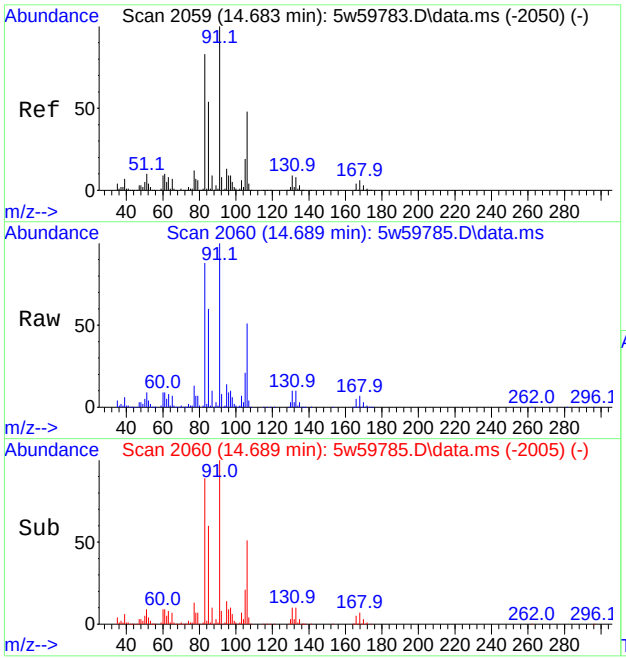


#84
BROMOFORM
Concen: 37.29 PPBV
RT: 14.255 min Scan# 1989
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:173 Resp: 6063084

Ion	Ratio	Lower	Upper
173	100		
175	50.6	19.6	79.6
254	9.5	0.0	39.0

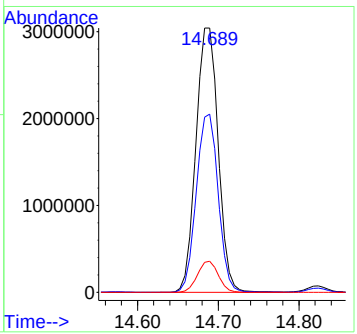


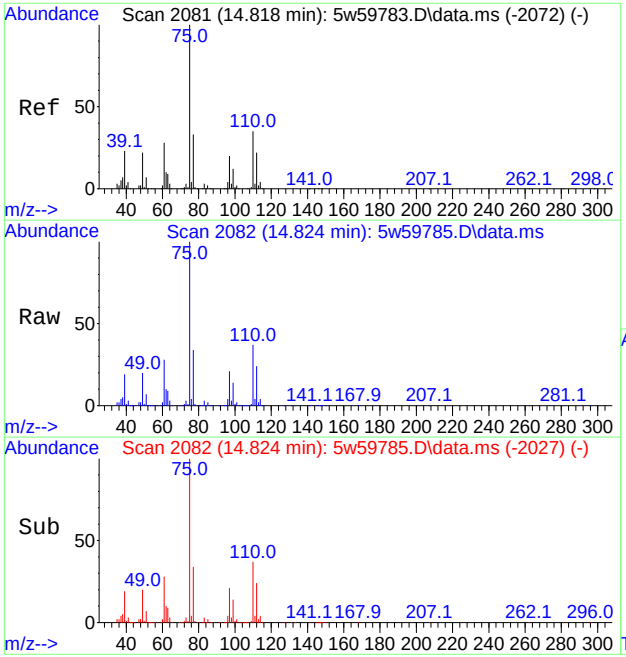


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 38.41 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 83 Resp: 5834633

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.2	95.2
131	11.1	0.0	40.3

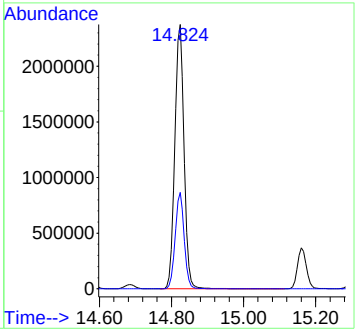


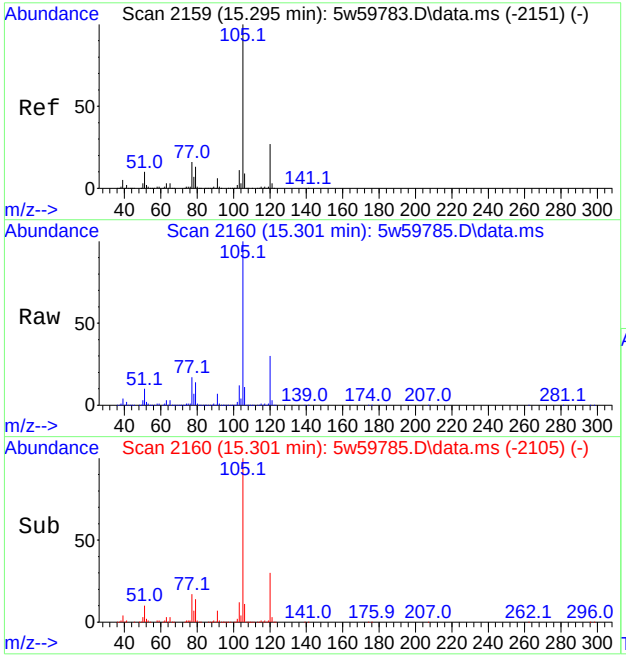


#87
1,2,3-TRICHLOROPROPANE
Concen: 33.30 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 75 Resp: 4239056

Ion	Ratio	Lower	Upper
75	100		
110	35.6	4.4	64.4

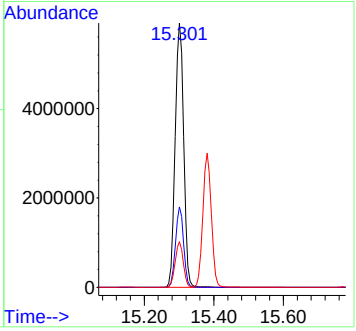


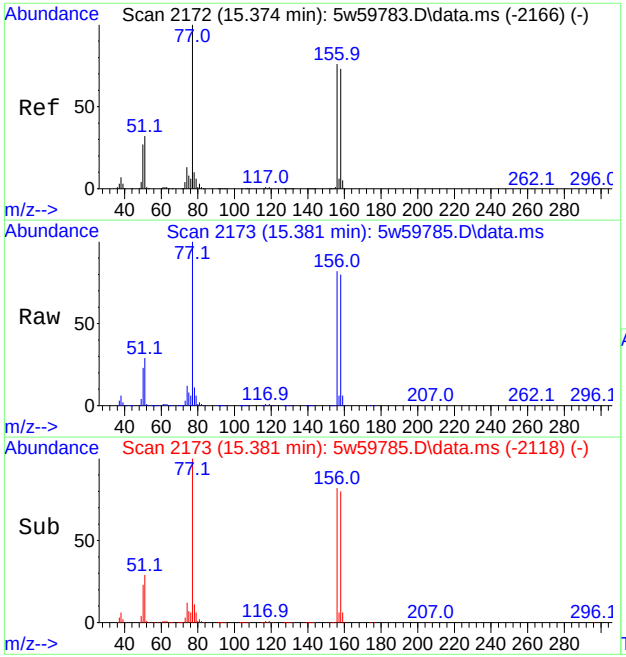


#88
ISOPROPYLBENZENE
Concen: 35.54 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp:10105051

Ion	Ratio	Lower	Upper
105	100		
120	28.8	0.0	56.0
77	16.4	0.0	45.6

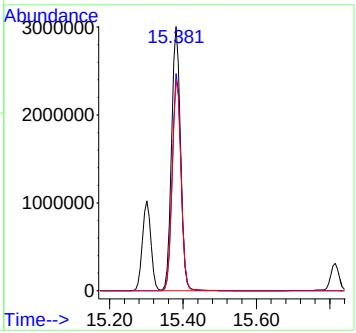


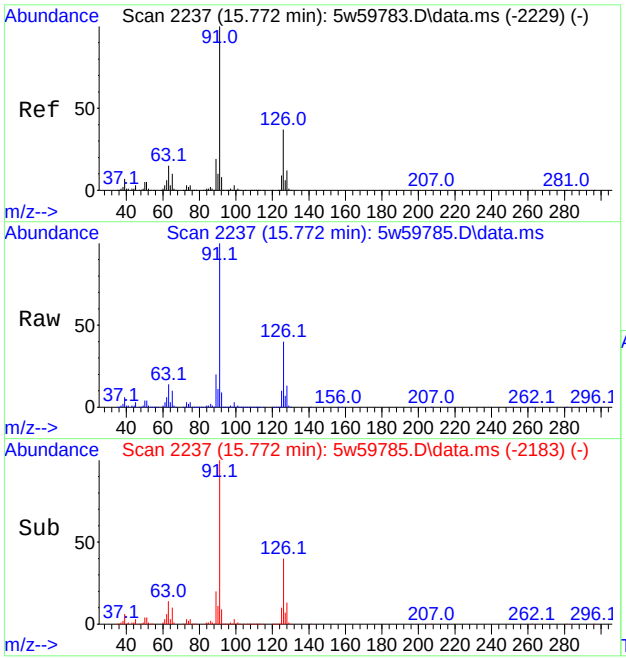


#89
BROMOBENZENE
Concen: 34.24 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 77 Resp: 5092227

Ion	Ratio	Lower	Upper
77	100		
156	81.3	54.9	101.9
158	79.0	53.5	99.3

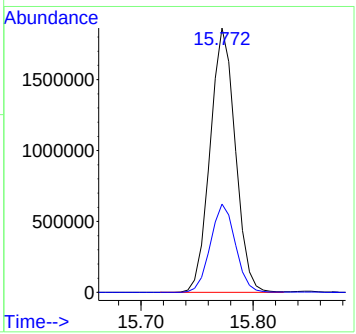


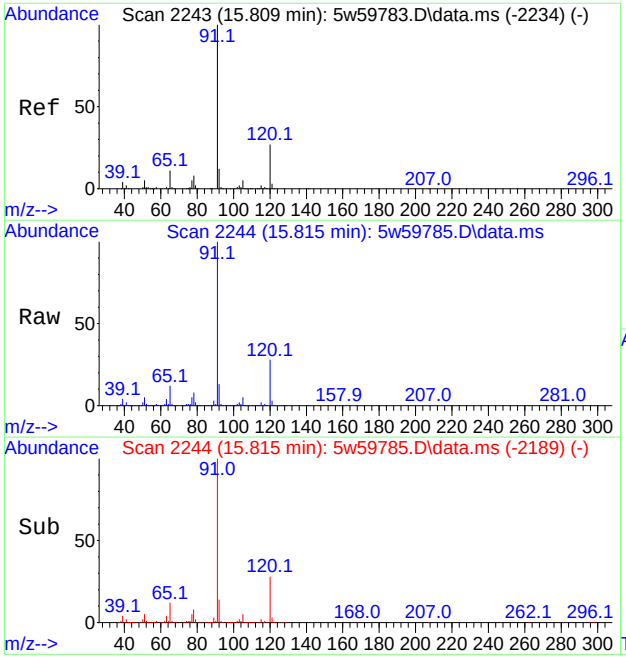


#90
2-CHLOROTOLUENE
Concen: 38.46 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:126 Resp: 2919479

Ion	Ratio	Lower	Upper
126	100		
128	33.1	2.7	62.7

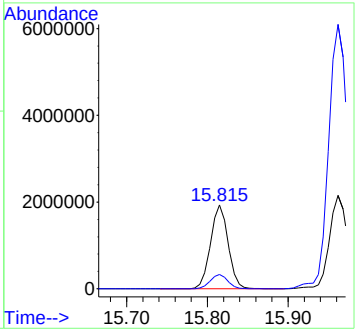


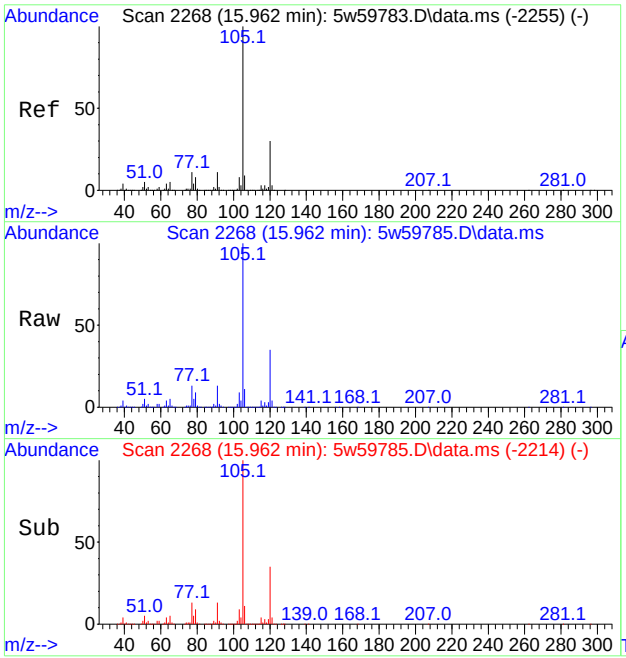


#91
n-PROPYLBENZENE
Concen: 38.73 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:120 Resp: 2929586

Ion	Ratio	Lower	Upper
120	100		
105	17.0	0.0	47.0

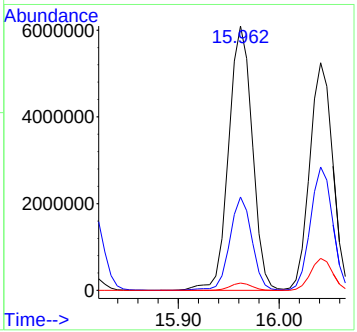


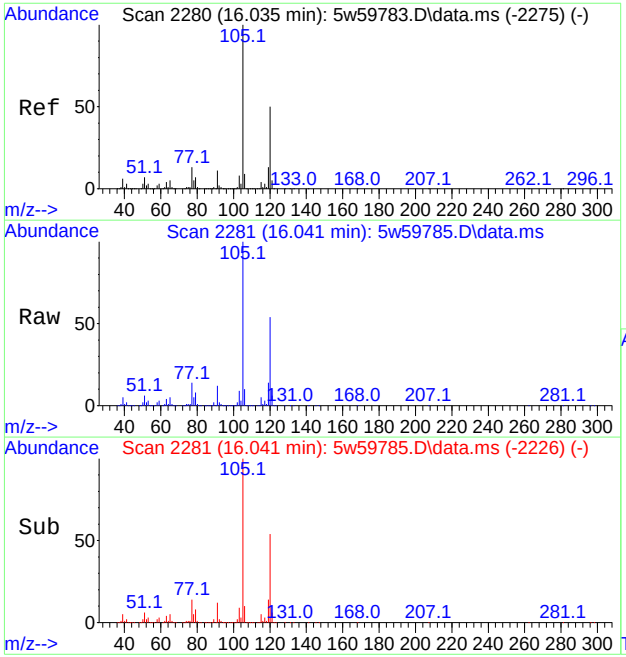


#92
4-ETHYLTOLUENE
Concen: 38.91 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 9932010

Ion	Ratio	Lower	Upper
105	100		
120	33.0	0.0	59.9
119	2.6	0.0	32.3

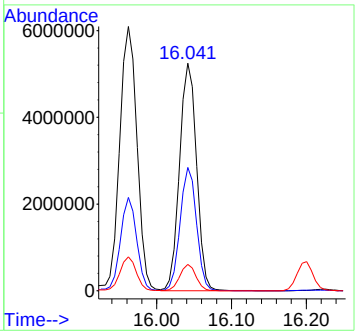


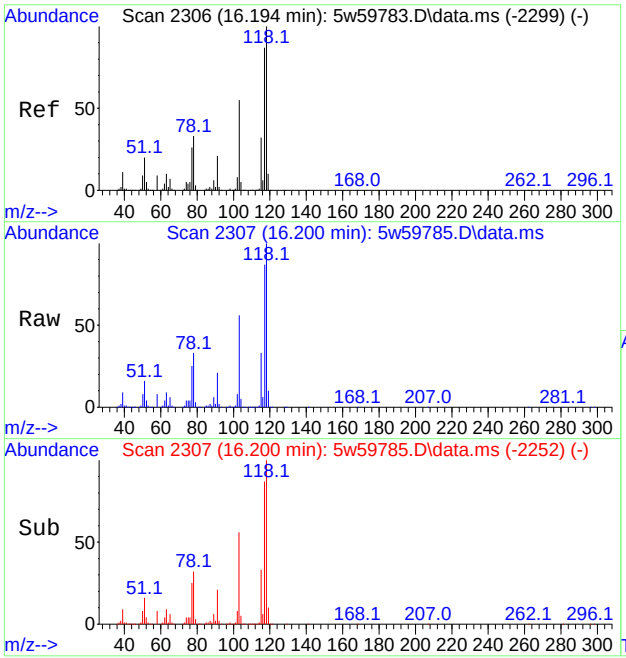


#93
1,3,5-TRIMETHYLBENZENE
Concen: 35.08 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 8308295

Ion	Ratio	Lower	Upper
105	100		
120	52.2	19.4	79.4
91	11.1	0.0	40.8

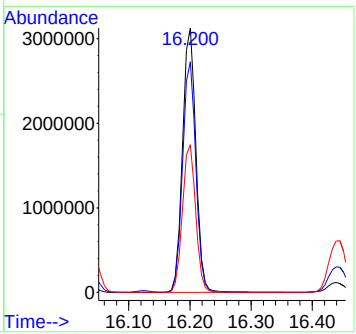


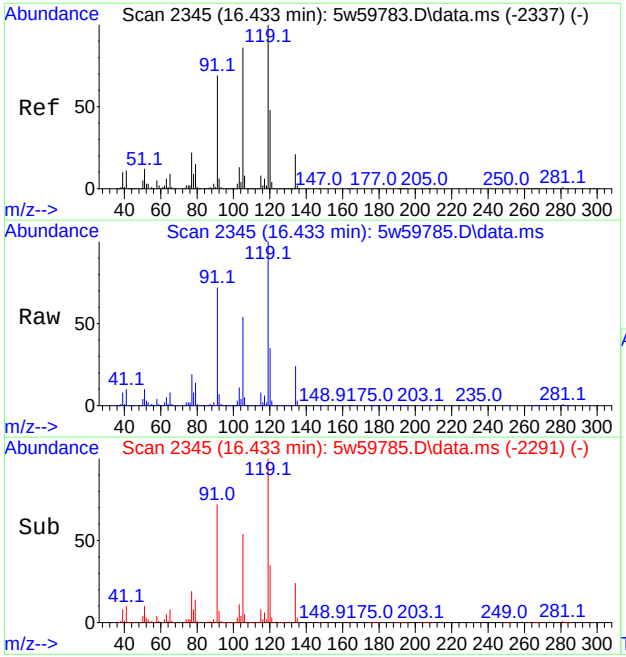


#94
ALPHA-METHYLSTYRENE
Concen: 41.57 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:118 Resp: 4732251

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.7	38.6	71.8

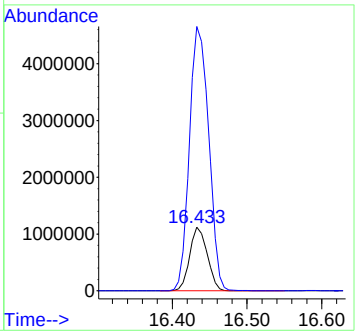


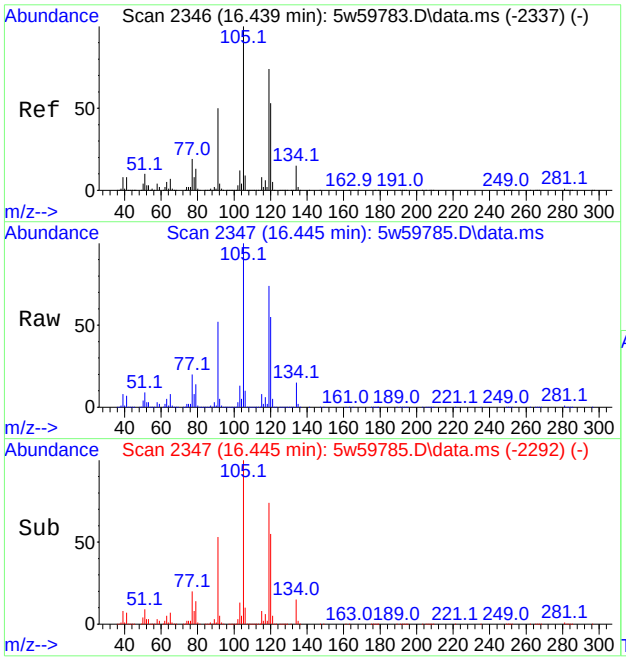


#95
tert-BUTYLBENZENE
Concen: 37.13 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 1826681

Ion	Ratio	Lower	Upper
134	100		
119	457.8	459.3	519.3#

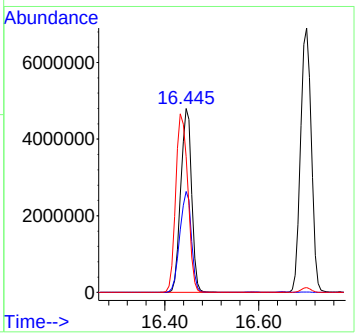


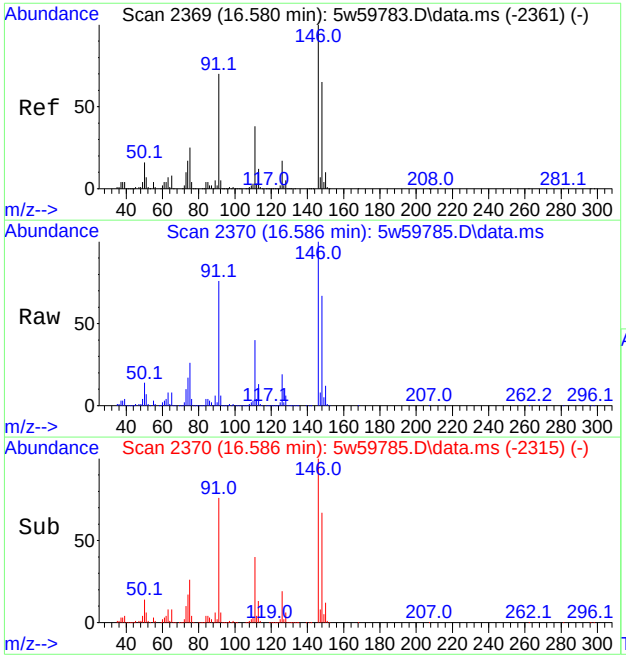


#96
1,2,4-TRIMETHYLBENZENE
Concen: 33.90 PPBV
RT: 16.445 min Scan# 2347
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7744703

Ion	Ratio	Lower	Upper
105	100		
120	58.3	25.7	85.7
119	108.0	75.7	135.7

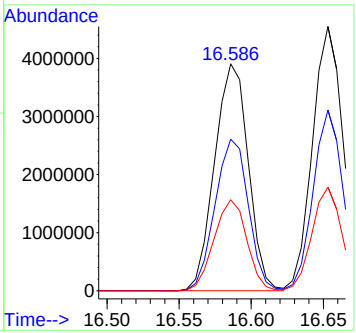


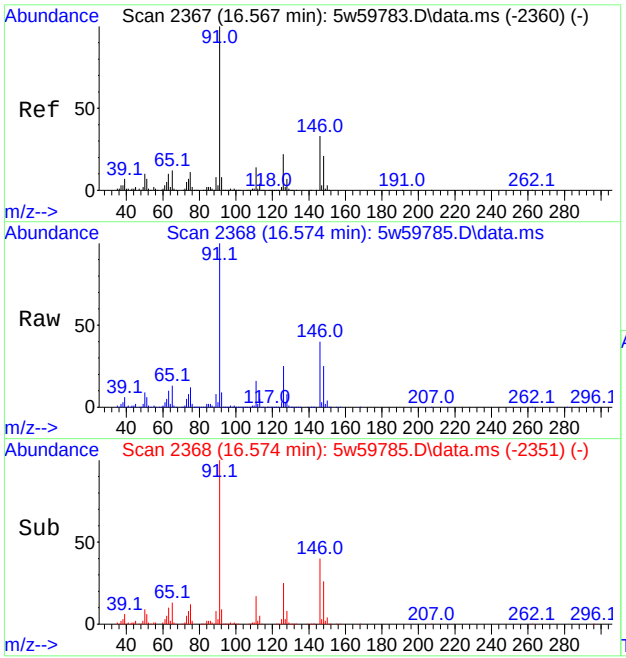


#97
m-DICHLOROBENZENE
Concen: 34.54 PPBV
RT: 16.586 min Scan# 2370
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6361294

Ion	Ratio	Lower	Upper
146	100		
148	66.1	34.8	94.8
111	39.0	8.2	68.2

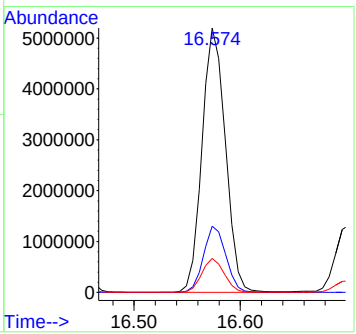


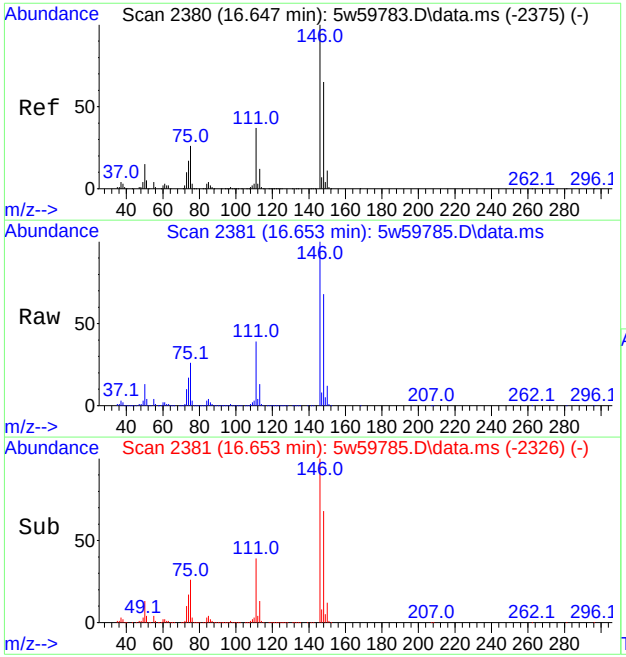


#98
BENZYL CHLORIDE
Concen: 38.06 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion: 91 Resp: 7942485

Ion	Ratio	Lower	Upper
91	100		
126	24.0	0.0	51.7
65	12.3	0.0	42.2

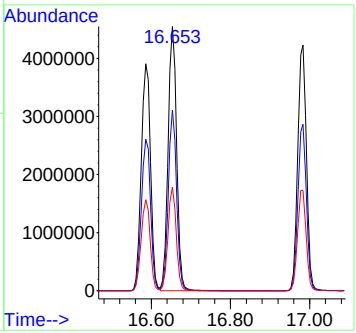


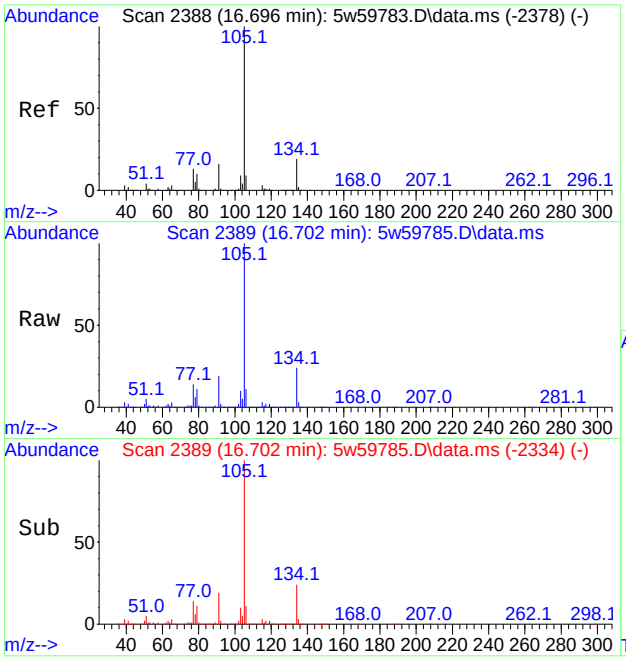


#99
p-DICHLOROBENZENE
Concen: 35.68 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6796416

Ion	Ratio	Lower	Upper
146	100		
148	66.6	34.6	94.6
111	38.0	6.7	66.7

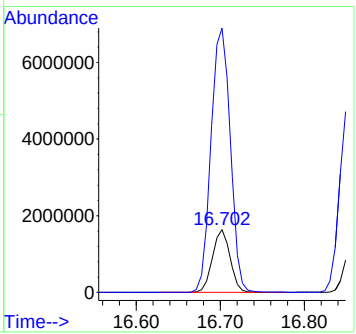


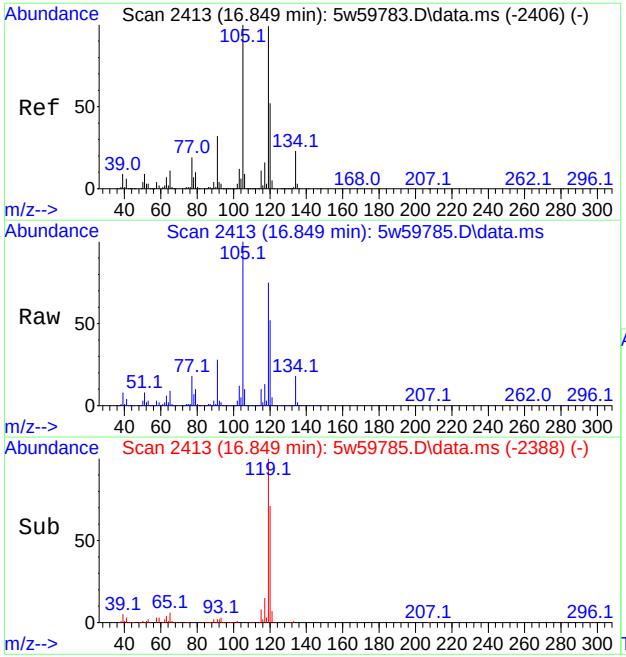


#100
sec-BUTYLBENZENE
Concen: 37.89 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2382473

Ion	Ratio	Lower	Upper
134	100		
105	462.5	502.5	562.5#

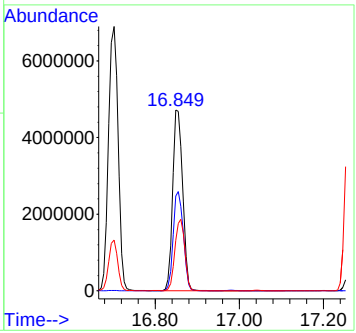


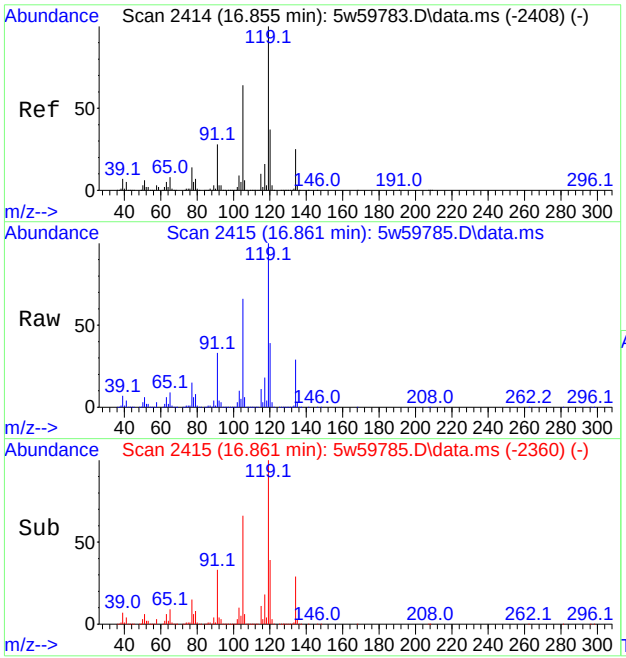


#101
1,2,3-TRIMETHYLBENZENE
Concen: 32.09 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:105 Resp: 7842082

Ion	Ratio	Lower	Upper
105	100		
120	55.3	23.5	83.5
91	38.9	7.4	67.4

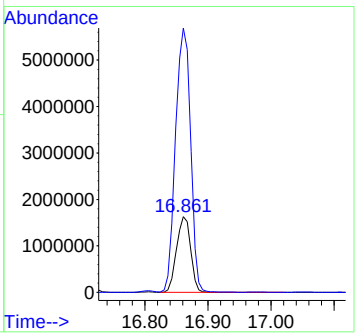


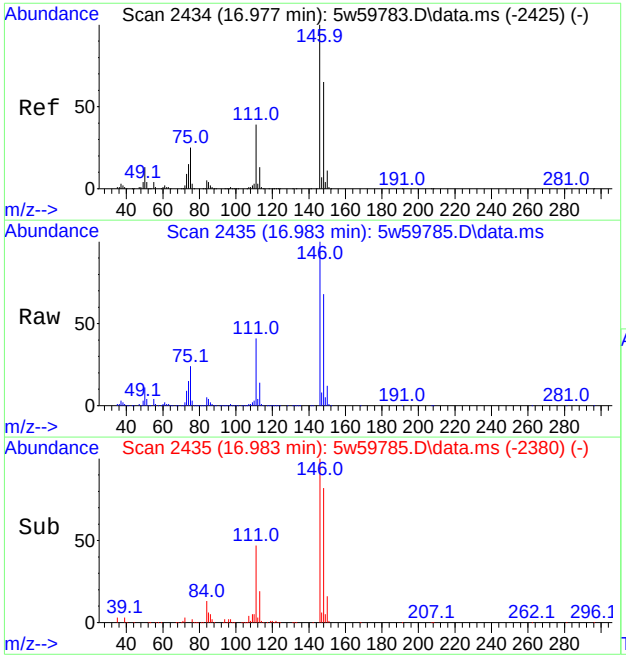


#102
p-ISOPROPYLTOLUENE
Concen: 35.07 PPBV
RT: 16.861 min Scan# 2415
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2537472

Ion	Ratio	Lower	Upper
134	100		
119	372.6	377.7	437.7#

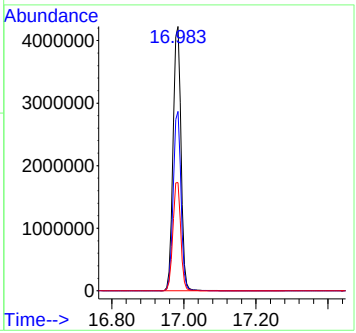


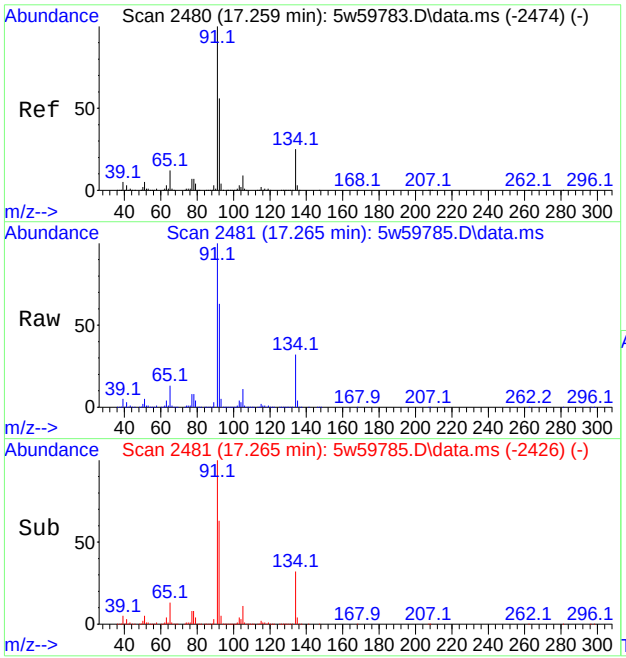


#103
o-DICHLOROBENZENE
Concen: 34.67 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:146 Resp: 6444852

Ion	Ratio	Lower	Upper
146	100		
148	66.3	34.3	94.3
111	40.6	9.2	69.2

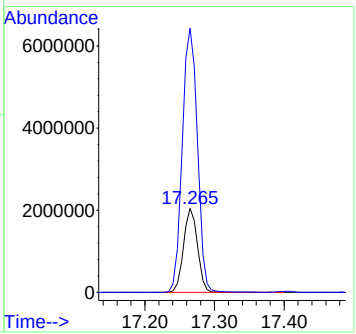


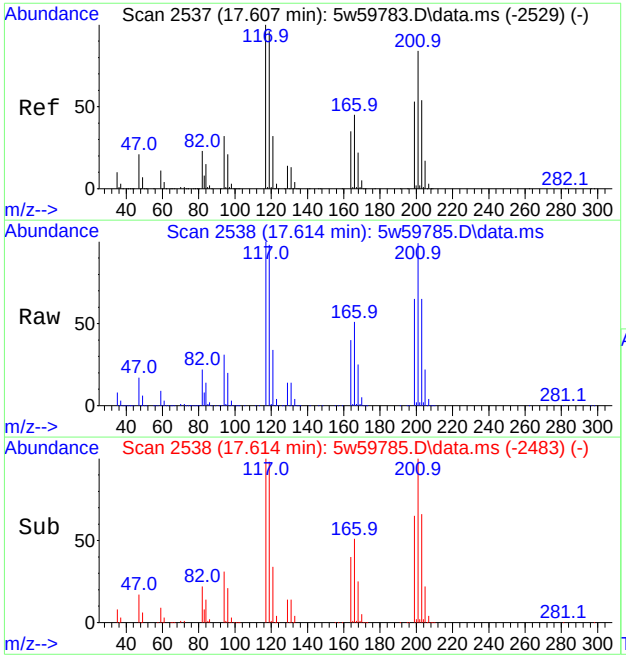


#104
n-BUTYLBENZENE
Concen: 43.05 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:134 Resp: 2846318

Ion	Ratio	Lower	Upper
134	100		
91	341.3	363.1	423.1#

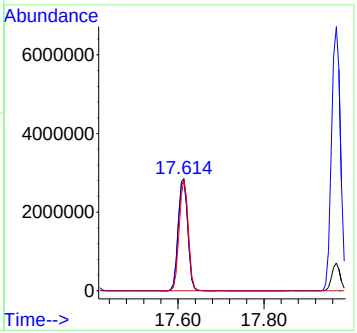


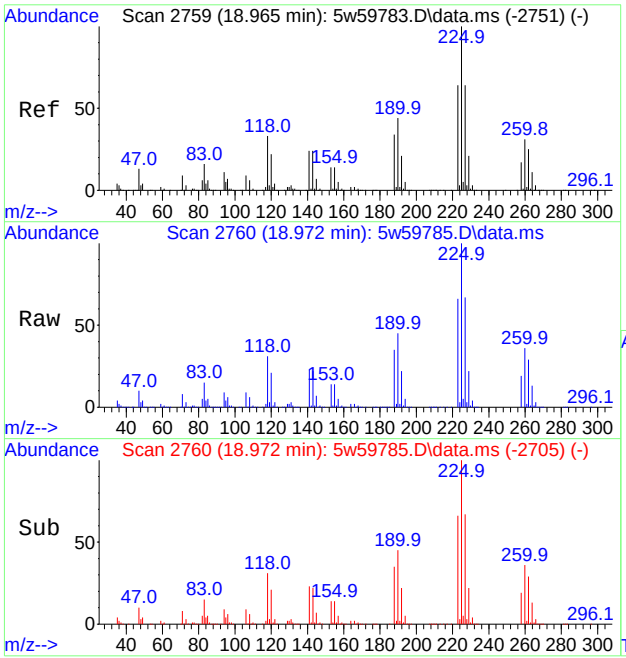


#105
HEXACHLOROETHANE
Concen: 36.00 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:117 Resp: 4455103

Ion	Ratio	Lower	Upper
117	100		
119	96.9	67.2	124.8
201	93.1	61.1	113.5

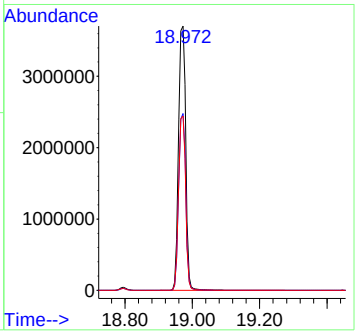


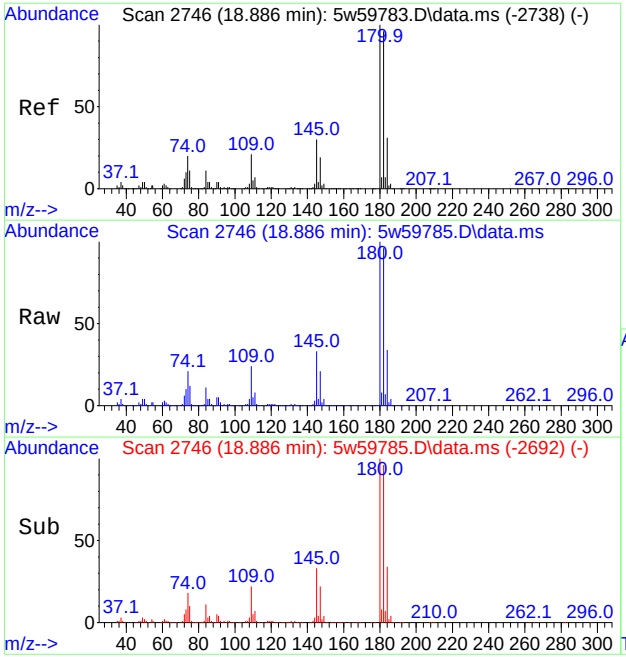


#106
HEXACHLOROBUTADIENE
Concen: 28.29 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:225 Resp: 5455879

Ion	Ratio	Lower	Upper
225	100		
227	65.9	34.2	94.2
223	65.2	33.3	93.3

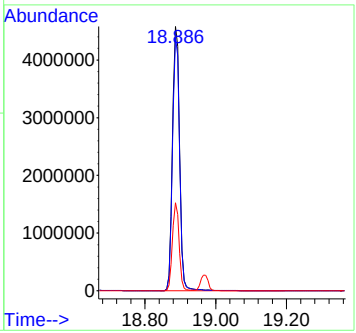


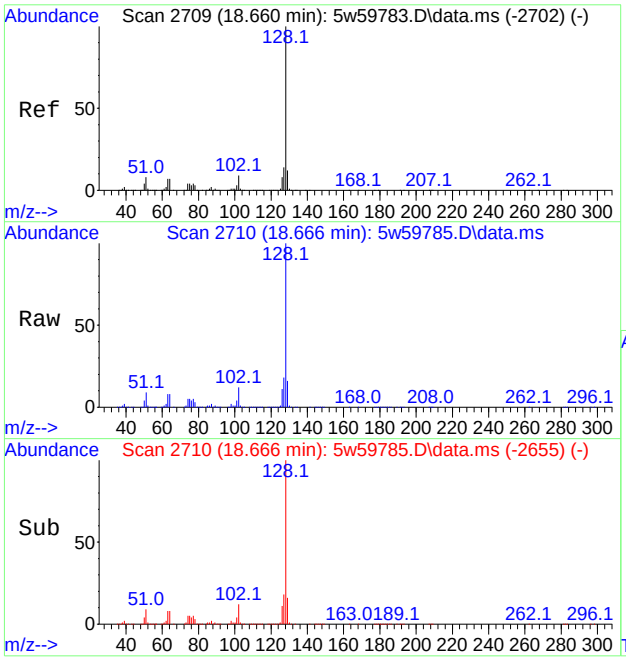


#107
1,2,4-TRICHLOROBENZENE
Concen: 48.55 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:180 Resp: 6383531

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	31.5	0.0	59.4

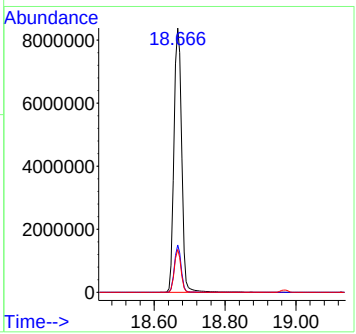


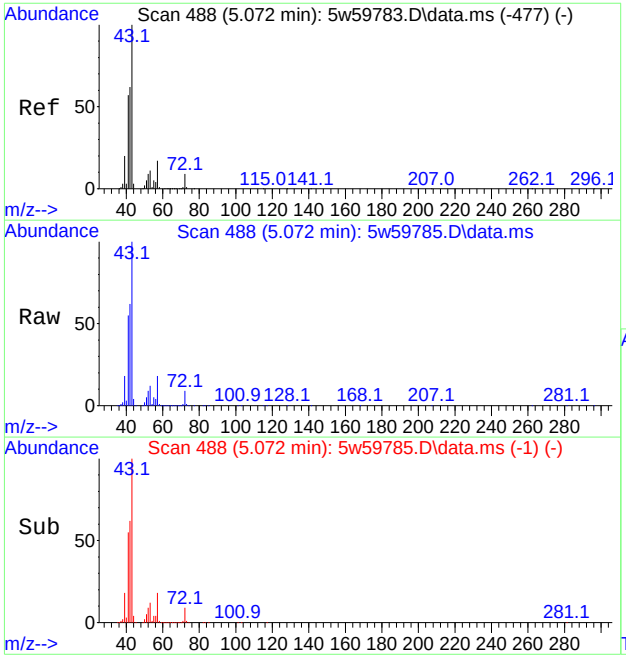


#108
NAPHTHALENE
Concen: 41.10 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:128 Resp:12695949

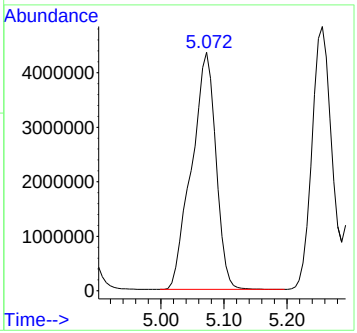
Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	43.3
129	14.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 33.13 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59785.D
Acq: 7 Nov 2025 8:54 am

Tgt Ion:TIC Resp:11631459



Manual Integration Approval Summary

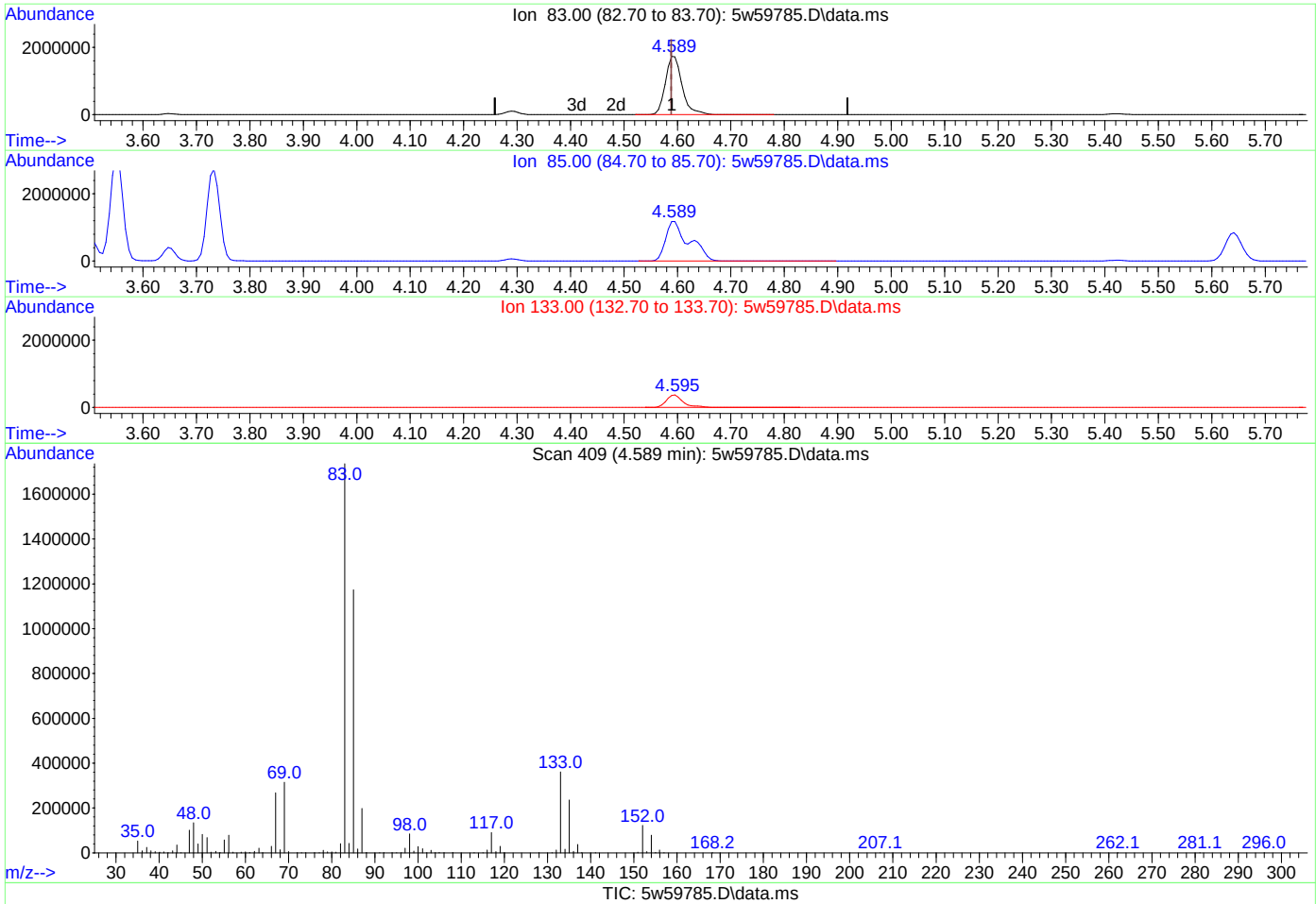
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59785.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 08:54 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV

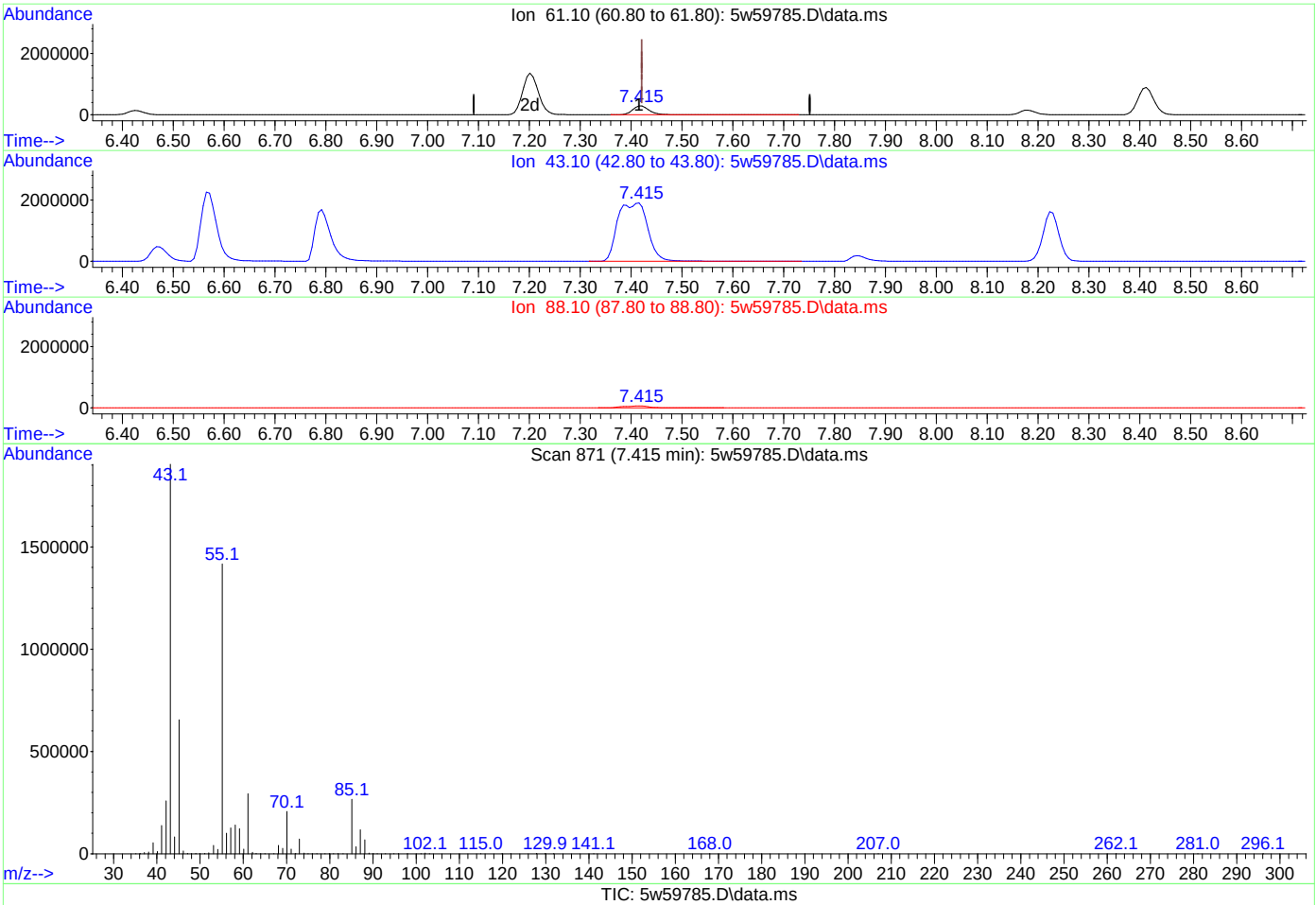
response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.18#
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV

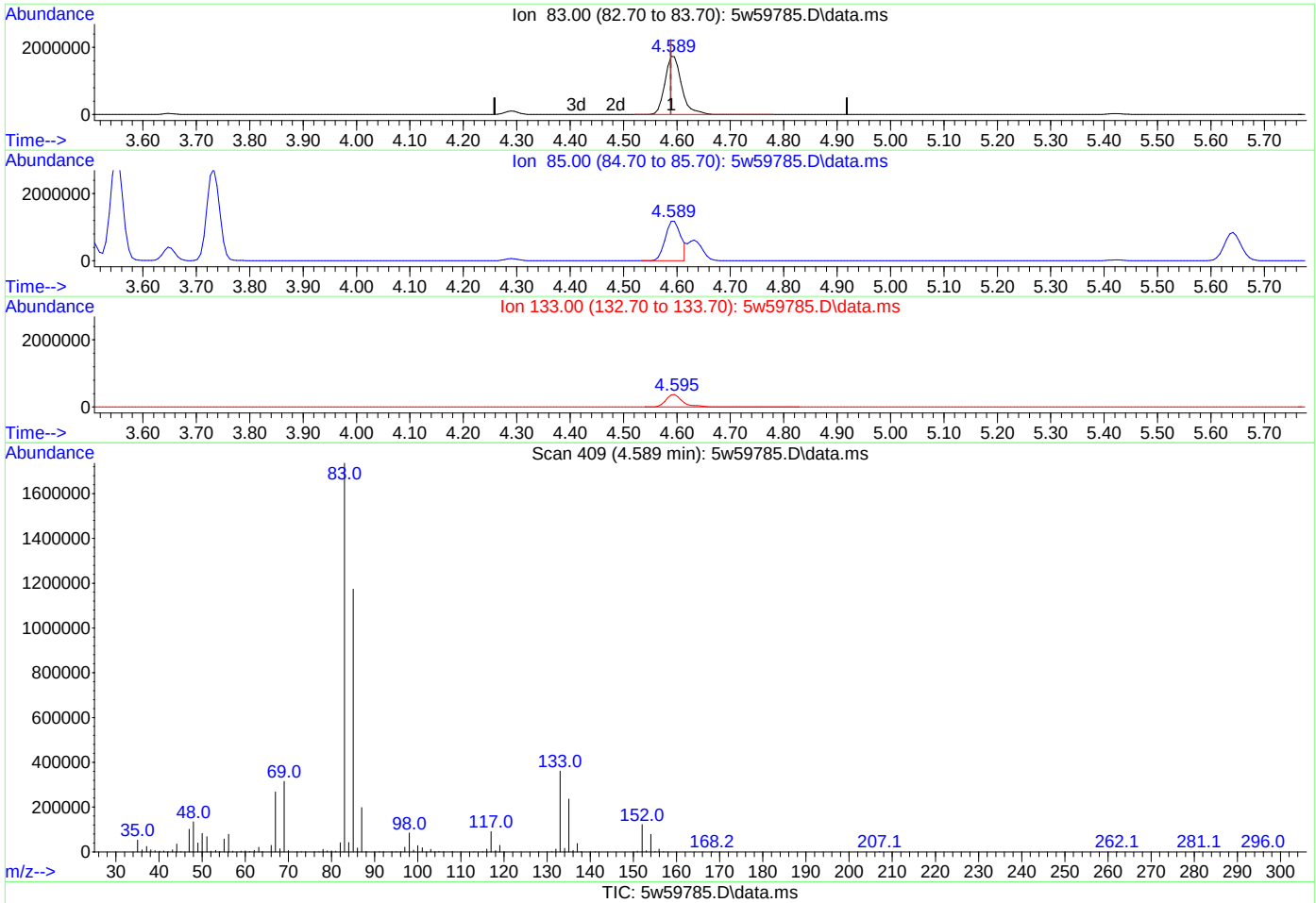
response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1167.91#
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(19) FREON 123

4.589min (+0.000) 32.62PPBV m

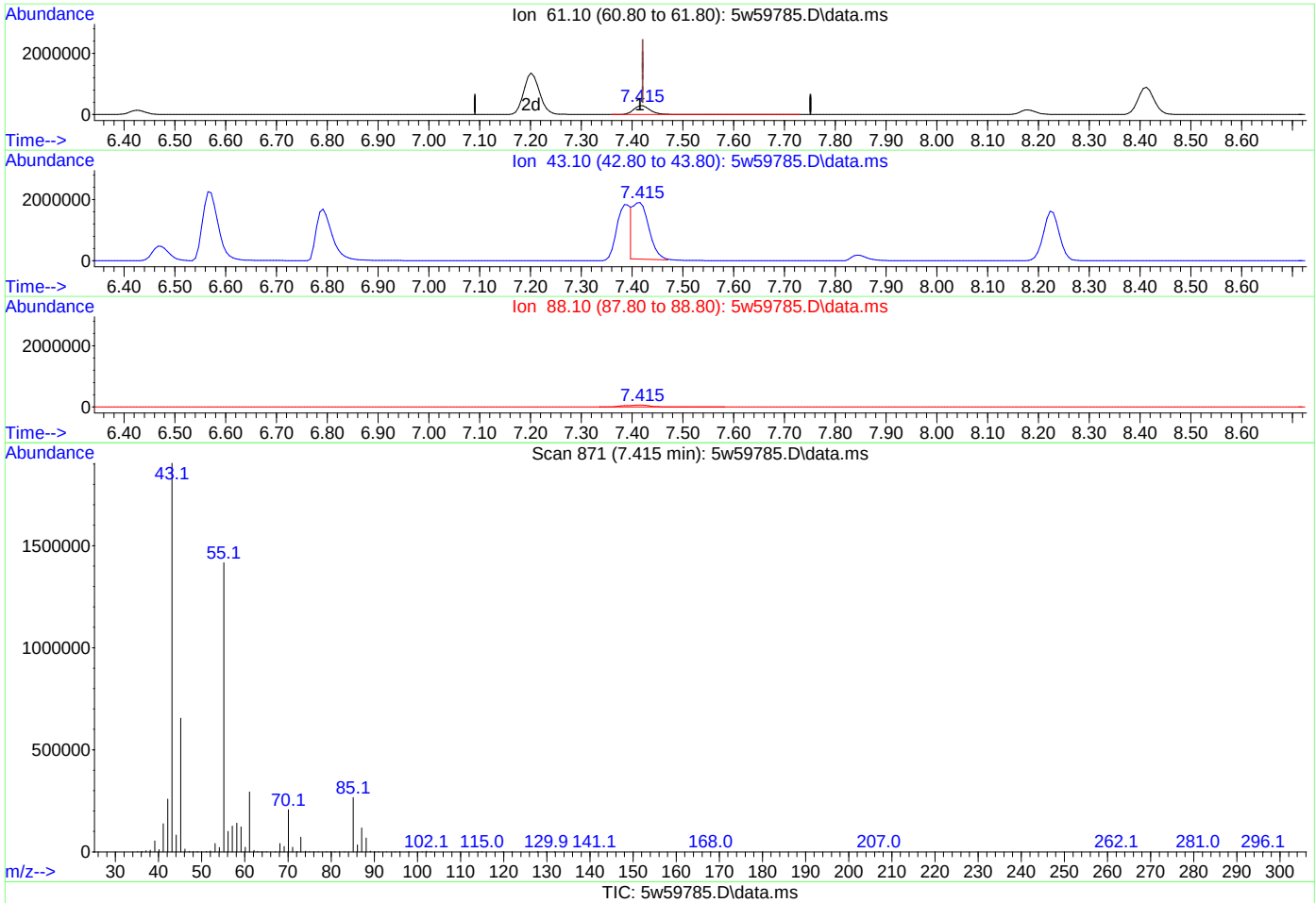
response 3786151

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	63.60
133.00	20.70	21.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(44) ETHYL ACETATE

7.415min (-0.006) 43.14PPBV m

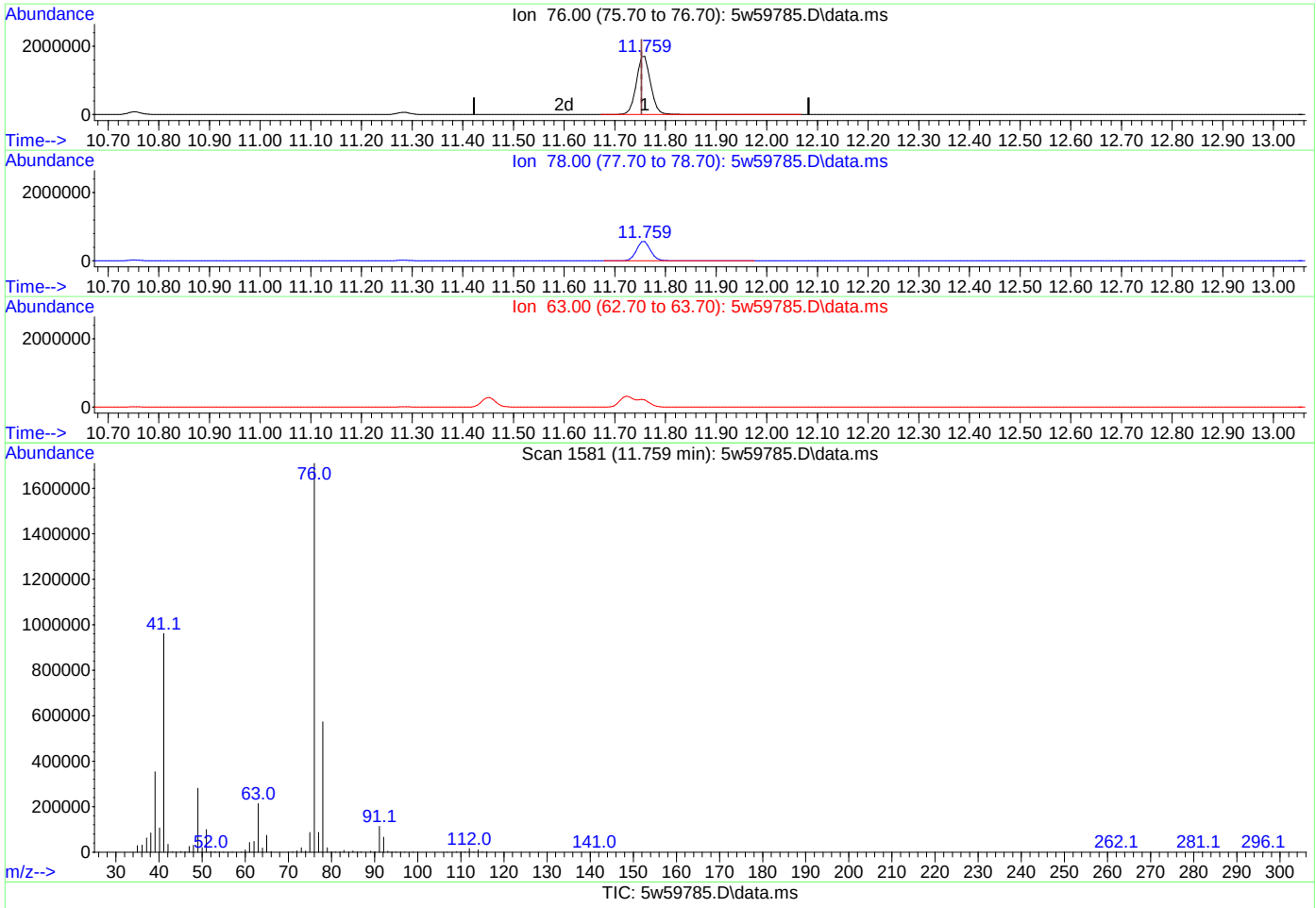
response 671399

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	592.51
88.10	34.50	35.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV

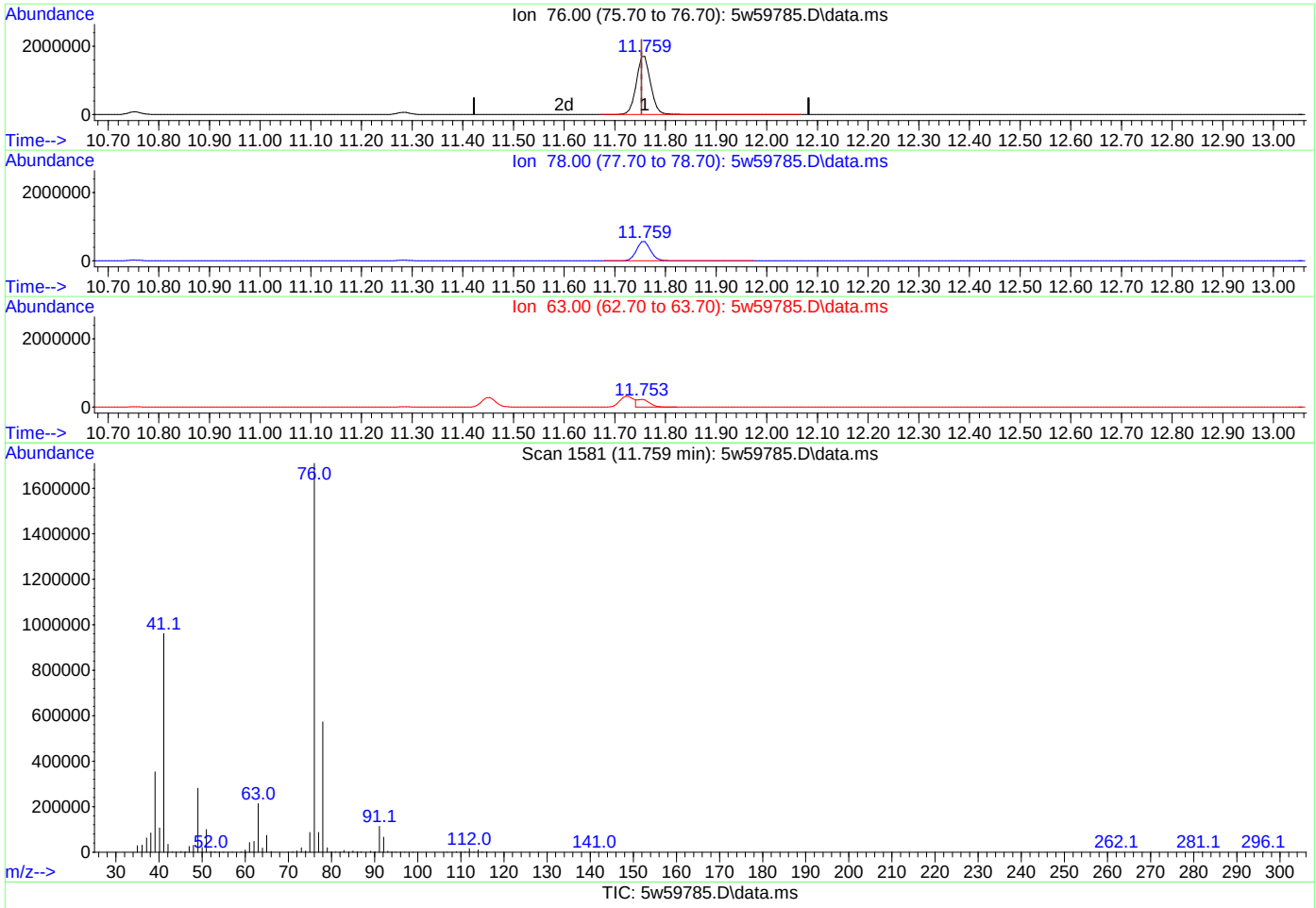
response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59785.D
Acq On : 7 Nov 2025 8:54 am
Operator : benk
Sample : ic2292-40
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 09:40:54 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:40:43 2025
Response via : Initial Calibration



TIC: 5w59785.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 44.02PPBV m

response 3397591

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.12
63.00	10.10	11.06
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.360	128	467162	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.220	114	1929313	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1280918	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.360	128	467697	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.160	95	1403075	8.83	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 88.30%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	512492	7.63	PPBV		99
3) FREON 152A	3.445	65	1696184	36.17	PPBV		95
4) CHLORODIFLUOROMETHANE	3.475	67	765807	35.25	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.500	116	3809315	35.53	PPBV		98
6) DICHLORODIFLUOROMETHANE	3.549	85	6454003	31.33	PPBV		97
7) PROPYLENE	3.494	41	1647441	32.49	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	4644392	27.21	PPBV		99
9) FREON 114	3.726	85	5332552	28.55	PPBV		96
10) CHLOROMETHANE	3.659	52	593159	28.33	PPBV		99
11) VINYL CHLORIDE	3.812	62	2006744	28.44	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1201486	27.81	PPBV		98
13) n-BUTANE	3.940	43	1865429	24.94	PPBV		98
14) BROMOMETHANE	4.099	94	2201552	30.01	PPBV		100
15) CHLOROETHANE	4.222	64	910647	29.04	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	4344933	28.26	PPBV		99
17) ACETONITRILE	4.479	41	1047676	24.43	PPBV		99
18) ACROLEIN	4.564	56	630972	24.71	PPBV		96
19) FREON 123	4.589	83	4570353m	27.57	PPBV		
20) FREON 123A	4.632	117	2921341	29.40	PPBV		93
21) TRICHLOROFLUOROMETHANE	4.791	101	5263086	26.51	PPBV		99
22) ISOPROPYL ALCOHOL	4.870	45	3712437	25.25	PPBV		100
23) ACETONE	4.668	58	738868	25.68	PPBV		96
24) PENTANE	5.072	42	2159289	29.26	PPBV		97
25) IODOMETHANE	5.250	142	7543155	35.46	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2443503	33.22	PPBV		95
27) CARBON DISULFIDE	5.672	76	6480951	33.10	PPBV		98
28) ETHANOL	4.320	45	668282	25.13	PPBV		99
29) BROMOETHENE	4.479	106	2216899	32.02	PPBV		100
30) ACRYLONITRILE	5.042	52	1601584	34.08	PPBV		99
31) METHYLENE CHLORIDE	5.421	84	2117266	32.13	PPBV		96
32) 3-CHLOROPROPENE	5.519	76	1102190	35.87	PPBV		90
33) FREON 113	5.641	151	4335347	33.71	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	2566855	33.70	PPBV		97
35) TERTIARY BUTYL ALCOHOL	5.372	59	4270952	27.79	PPBV		99
36) METHYL TERTIARY BUTYL ...	6.467	73	6337595	33.80	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1023793	37.42	PPBV		97
38) HEXANE	7.379	57	3623516	34.89	PPBV		91
39) VINYL ACETATE	6.571	86	477066	39.37	PPBV	#	79
40) 1,1-DICHLOROETHANE	6.424	63	4545260	33.30	PPBV		99
41) METHYL ETHYL KETONE	6.791	72	1116320	39.33	PPBV	#	86
42) cis-1,2-DICHLOROETHYLENE	7.201	96	2772689	35.23	PPBV		97
43) DIISOPROPYL ETHER	7.391	59	1134199	38.69	PPBV	#	77
44) ETHYL ACETATE	7.421	61	845012m	34.91	PPBV		
45) METHYL ACRYLATE	7.409	55	4442118	33.33	PPBV		96
46) CHLOROFORM	7.489	83	5265891	33.15	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.223	57	4372372	35.95	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.412	97	5674011	33.44	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	6150579	33.09	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	3745660	33.65	PPBV		99
52)	BENZENE	8.859	78	7354311	40.36	PPBV		99
53)	CYCLOHEXANE	9.110	84	2949070	40.67	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1522391	42.20	PPBV		93
55)	TRICHLOROETHYLENE	9.893	95	3632086	37.53	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	2868397	37.03	PPBV		99
57)	DIBROMOMETHANE	9.636	174	4006214	38.37	PPBV		98
58)	ETHYL ACRYLATE	9.685	55	5610538	37.54	PPBV		99
59)	BROMODICHLOROMETHANE	9.856	83	6264555	37.04	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	9.917	57	10265949	34.27	PPBV		97
61)	1,4-DIOXANE	9.893	88	1571741	39.31	PPBV	#	1
62)	HEPTANE	10.193	43	3734901	36.15	PPBV		94
63)	METHYL METHACRYLATE	10.107	69	2494133	41.16	PPBV		96
64)	METHYL ISOBUTYL KETONE	10.786	58	2440543	38.84	PPBV		90
65)	cis-1,3-DICHLOROPROPENE	10.756	75	5041121	41.46	PPBV		91
66)	TOLUENE	11.722	92	5480196	41.16	PPBV		95
67)	1,3-DICHLOROPROPANE	11.759	76	4271872m	38.74	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	4565890	40.93	PPBV		94
69)	1,1,2-TRICHLOROETHANE	11.453	83	3077034	42.06	PPBV		100
71)	2-HEXANONE	12.010	58	3450029	32.66	PPBV		89
72)	ETHYL METHACRYLATE	12.028	69	4427593	33.31	PPBV		90
73)	TETRACHLOROETHYLENE	12.878	164	4203511	31.36	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.157	129	7029117	30.46	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	5931699	33.98	PPBV		100
76)	OCTANE	12.750	43	5161401	28.88	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	13.570	131	4713028	31.92	PPBV		99
78)	CHLOROBENZENE	13.588	112	7439915	30.47	PPBV		99
79)	ETHYLBENZENE	13.992	91	11379916	31.54	PPBV		95
80)	m,p-XYLENE	14.194	106	9117454	65.12	PPBV		89
81)	o-XYLENE	14.689	106	4240336	32.29	PPBV		94
82)	STYRENE	14.573	104	7405410	37.26	PPBV		99
83)	NONANE	14.940	43	4961142	27.57	PPBV		91
84)	BROMOFORM	14.261	173	7504388	32.02	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	6869258	29.32	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	5400423	29.33	PPBV		96
88)	ISOPROPYLBENZENE	15.301	105	11977220	28.72	PPBV		94
89)	BROMOBENZENE	15.381	77	6360723	29.55	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	3685448	32.56	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	3584454	31.94	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	11670979	30.19	PPBV		93
93)	1,3,5-TRIMETHYLBENZENE	16.041	105	9865714	28.34	PPBV		95
94)	ALPHA-METHYLSTYRENE	16.200	118	5900787	33.71	PPBV		99
95)	tert-BUTYLBENZENE	16.433	134	2122779	28.46	PPBV	#	88
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	8886934	26.06	PPBV		97
97)	m-DICHLOROBENZENE	16.592	146	7359121	27.06	PPBV		98
98)	BENZYL CHLORIDE	16.574	91	9095992	28.12	PPBV		96
99)	p-DICHLOROBENZENE	16.653	146	7993903	28.96	PPBV		97
100)	sec-BUTYLBENZENE	16.702	134	2827725	30.67	PPBV	#	70
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9024748	24.94	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	2924462	27.10	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	7985671	29.61	PPBV		97
104)	n-BUTYLBENZENE	17.265	134	3481921	34.55	PPBV	#	72
105)	HEXACHLOROETHANE	17.614	117	5208368	28.92	PPBV		96
106)	HEXACHLOROBUTADIENE	18.972	225	6236008	22.78	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	7600427	32.01	PPBV		99
108)	NAPHTHALENE	18.666	128	14205927	26.02	PPBV		91
110)	TVHC as equiv Pentane	5.066	TIC	14466620	31.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

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

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

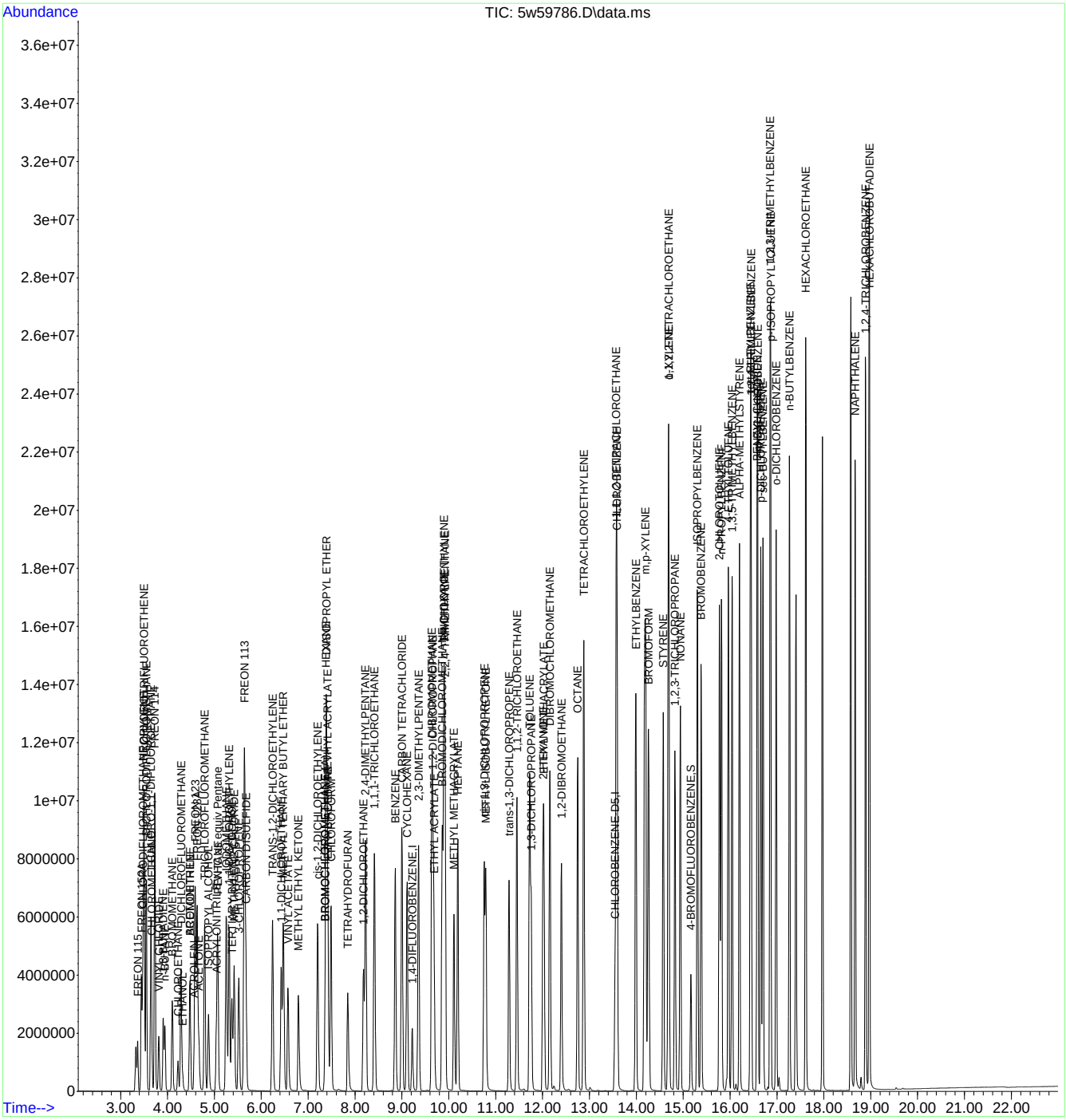
7.7.9

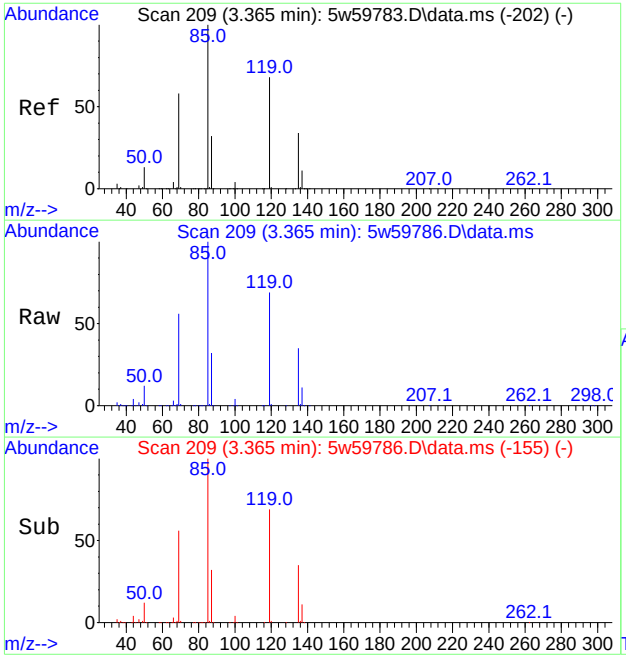
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:05:08 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

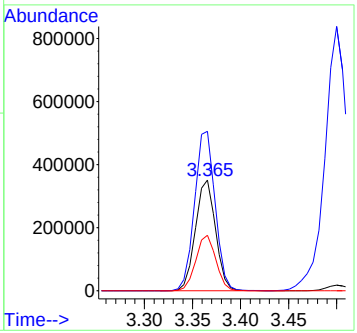


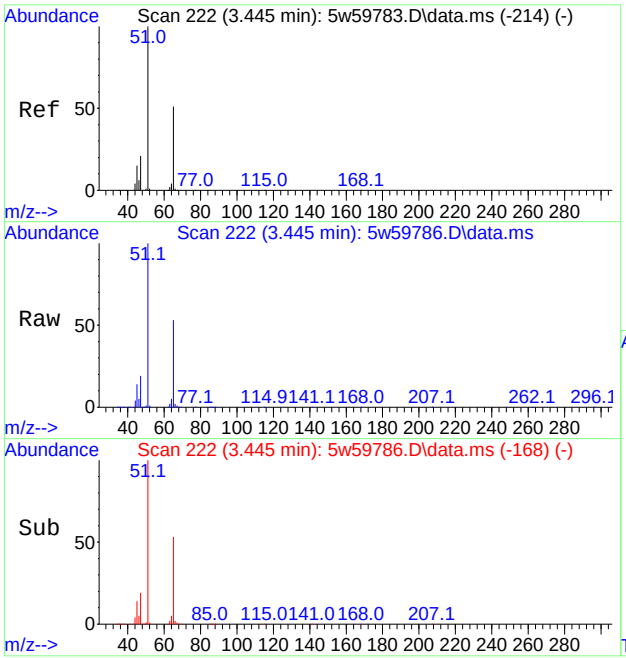


#2
FREON 115
Concen: 7.63 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:119 Resp: 512492

Ion	Ratio	Lower	Upper
119	100		
85	146.9	116.2	176.2
135	50.1	20.6	80.6

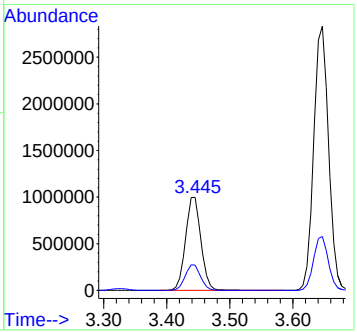


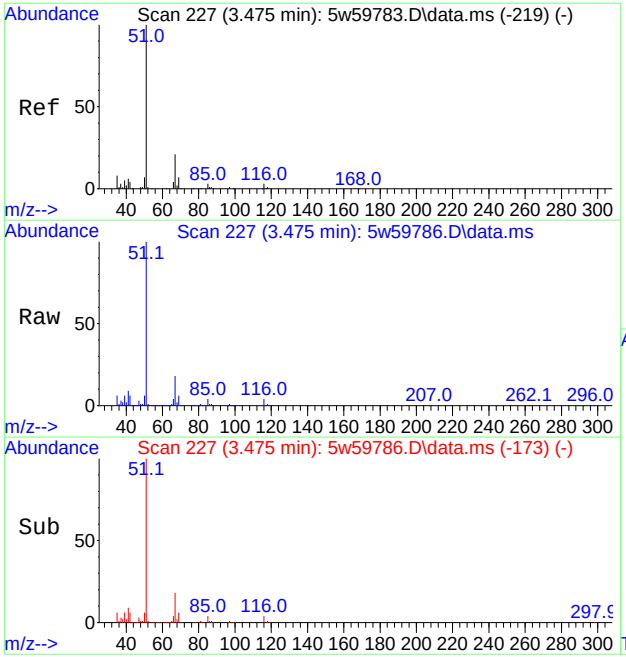


#3
FREON 152A
Concen: 36.17 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 1696184

Ion	Ratio	Lower	Upper
65	100		
45	27.4	0.0	60.0

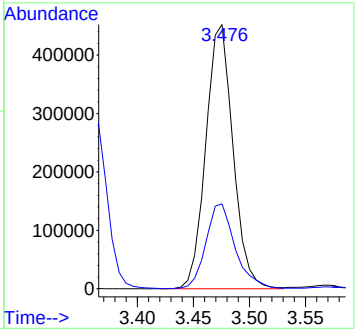


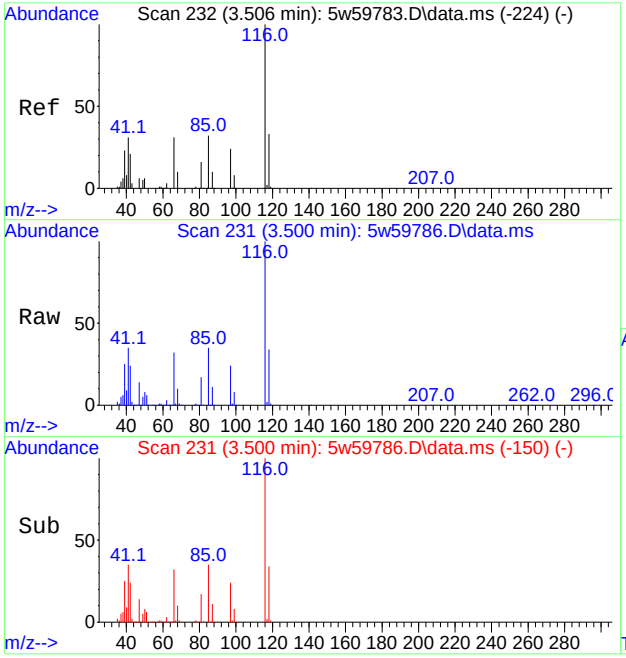


#4
CHLORODIFLUOROMETHANE
Concen: 35.25 PPBV
RT: 3.475 min Scan# 227
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 765807

Ion	Ratio	Lower	Upper
67	100		
69	32.1	1.0	61.0

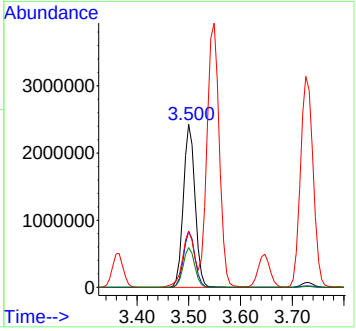


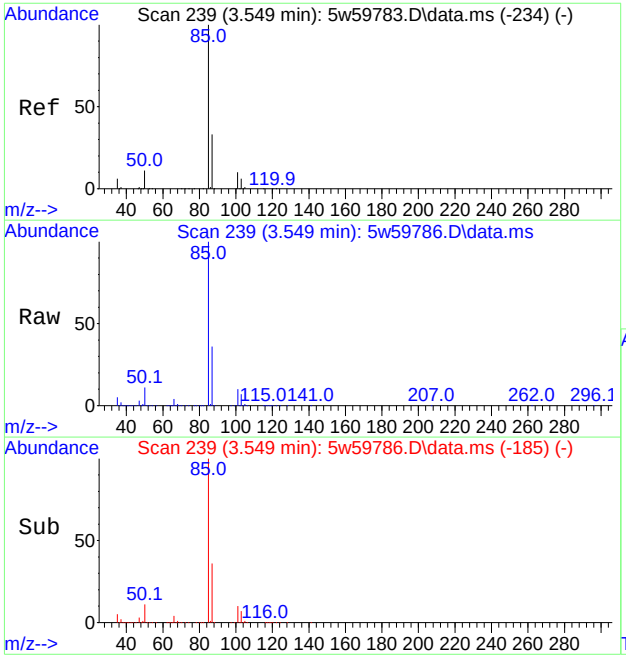


#5
CHLOROTRIFLUOROETHENE
Concen: 35.53 PPBV
RT: 3.500 min Scan# 231
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:116 Resp: 3809315

Ion	Ratio	Lower	Upper
116	100		
118	33.7	22.9	42.5
85	36.0	23.7	44.1
97	24.2	17.0	31.6

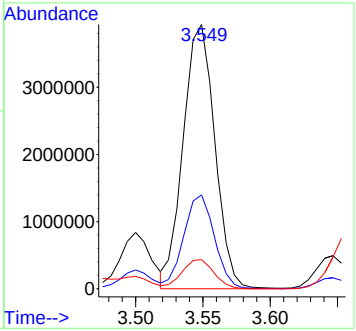


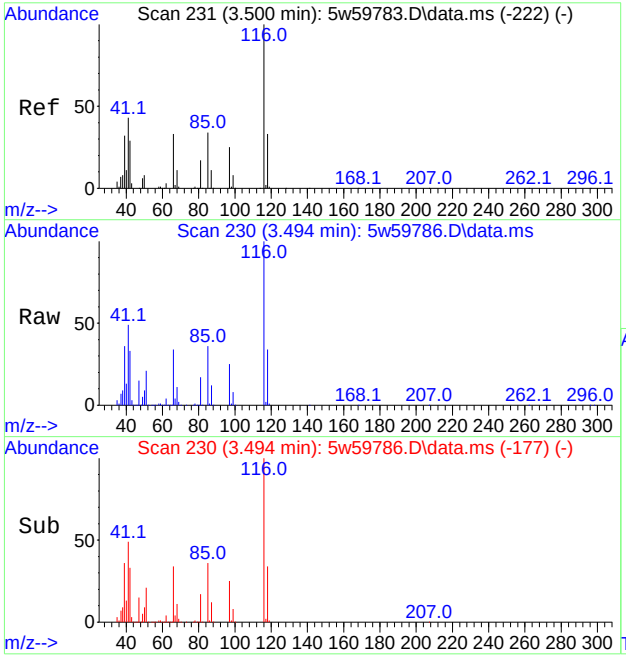


#6
DICHLORODIFLUOROMETHANE
Concen: 31.33 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 6454003

Ion	Ratio	Lower	Upper
85	100		
87	34.5	2.5	62.5
50	11.2	0.0	41.7

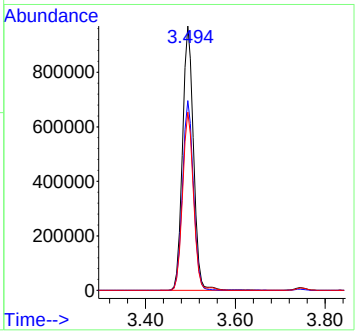


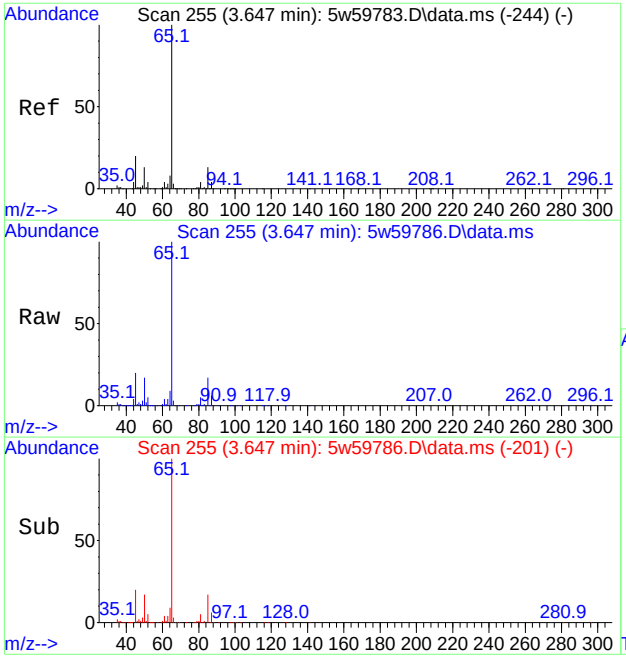


#7
PROPYLENE
Concen: 32.49 PPBV
RT: 3.494 min Scan# 230
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1647441

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.1	36.3	96.3

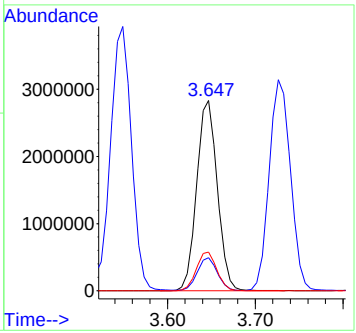


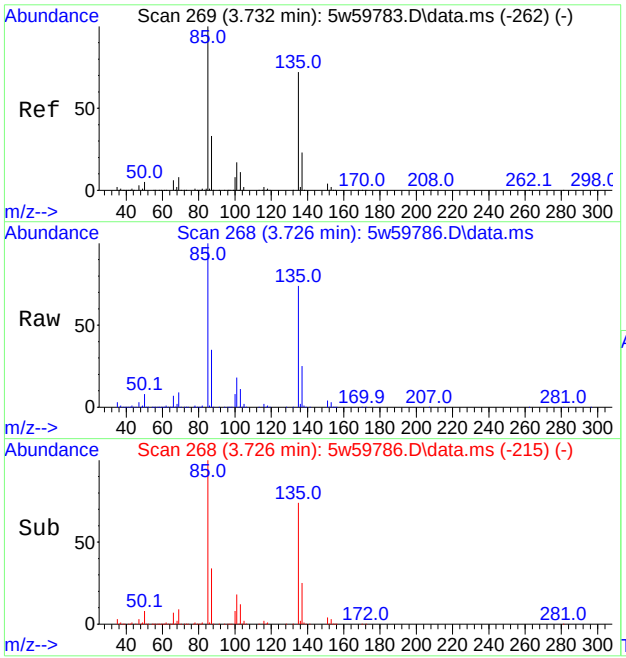


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 27.21 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 65 Resp: 4644392

Ion	Ratio	Lower	Upper
65	100		
85	17.0	11.5	21.3
45	20.3	14.0	26.0

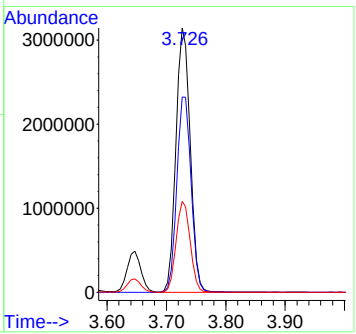


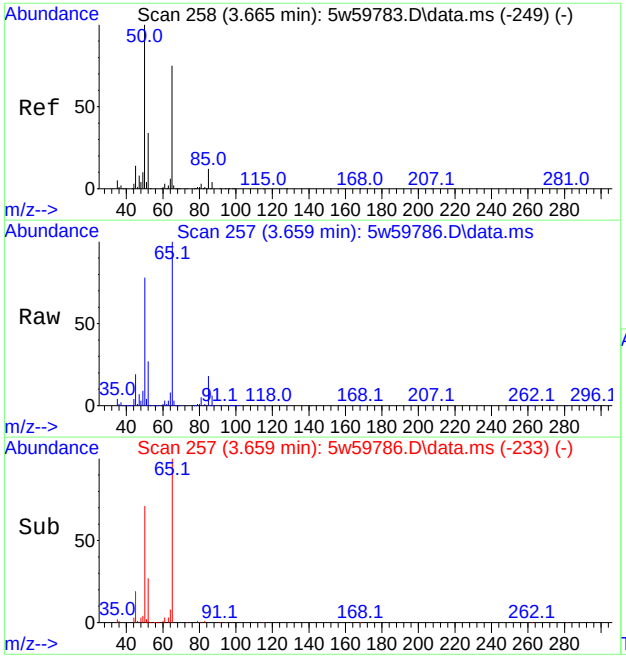


#9
FREON 114
Concen: 28.55 PPBV
RT: 3.726 min Scan# 268
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 85 Resp: 5332552

Ion	Ratio	Lower	Upper
85	100		
135	74.3	40.5	100.5
87	33.9	3.0	63.0

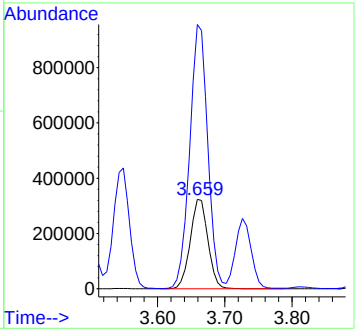


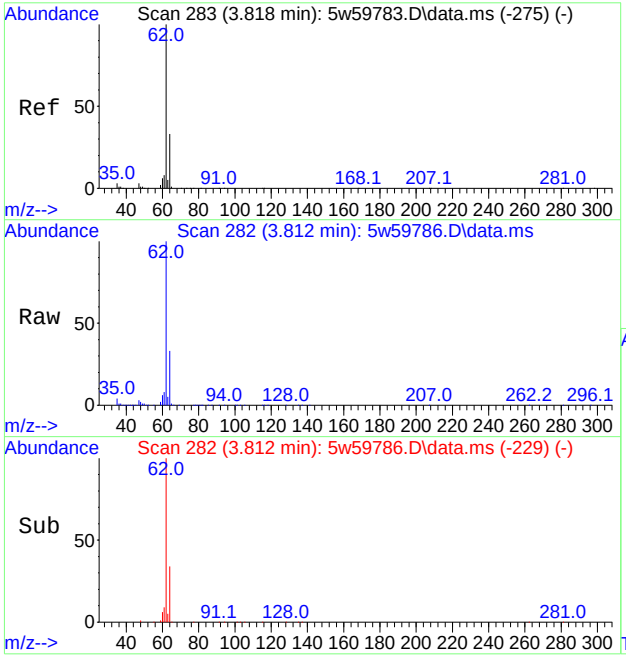


#10
CHLOROMETHANE
Concen: 28.33 PPBV
RT: 3.659 min Scan# 257
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 593159

Ion	Ratio	Lower	Upper
52	100		
50	295.1	267.9	327.9

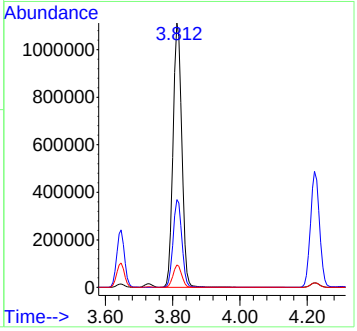


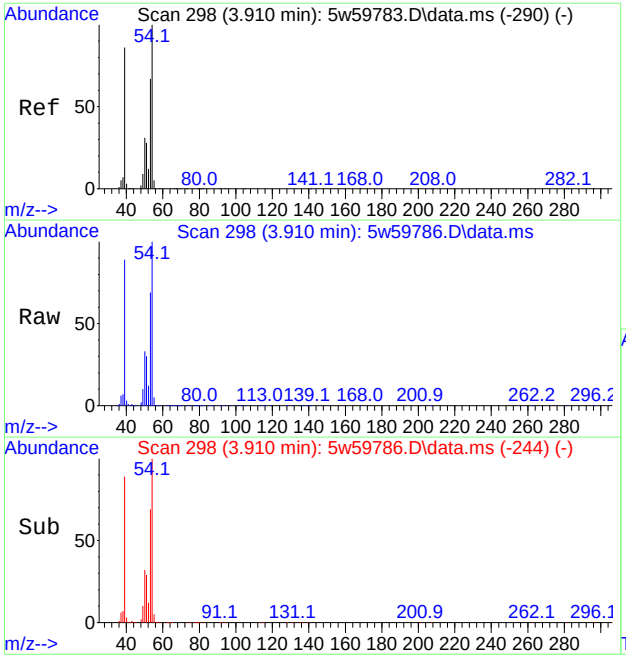


#11
VINYL CHLORIDE
Concen: 28.44 PPBV
RT: 3.812 min Scan# 282
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 2006744

Ion	Ratio	Lower	Upper
62	100		
64	33.3	3.6	63.6
61	8.4	0.0	38.2

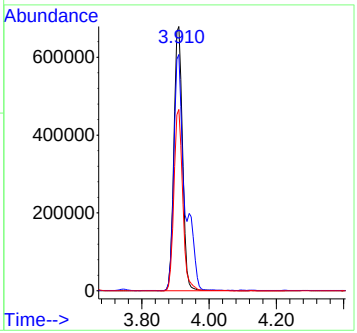


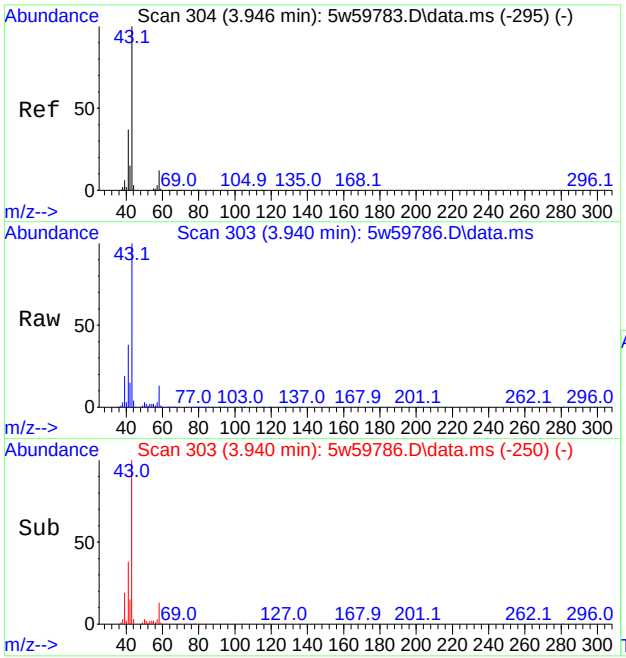


#12
1,3-BUTADIENE
Concen: 27.81 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 54 Resp: 1201486

Ion	Ratio	Lower	Upper
54	100		
39	114.6	82.0	142.0
53	70.5	40.2	100.2

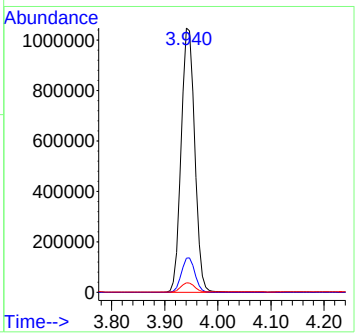


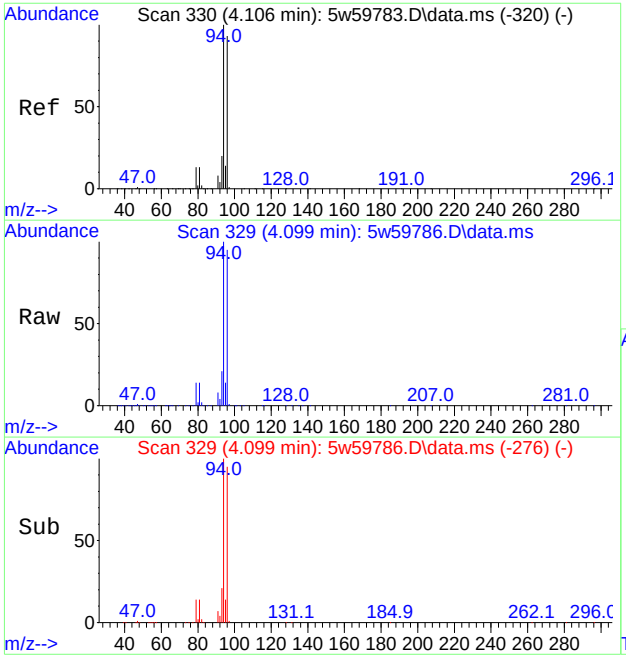


#13
n-BUTANE
Concen: 24.94 PPBV
RT: 3.940 min Scan# 303
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 1865429

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.8	0.0	34.9

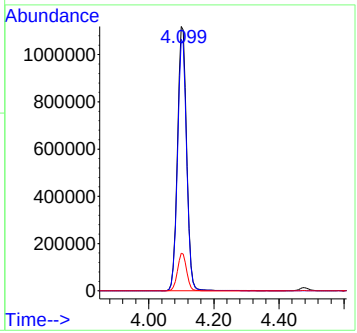


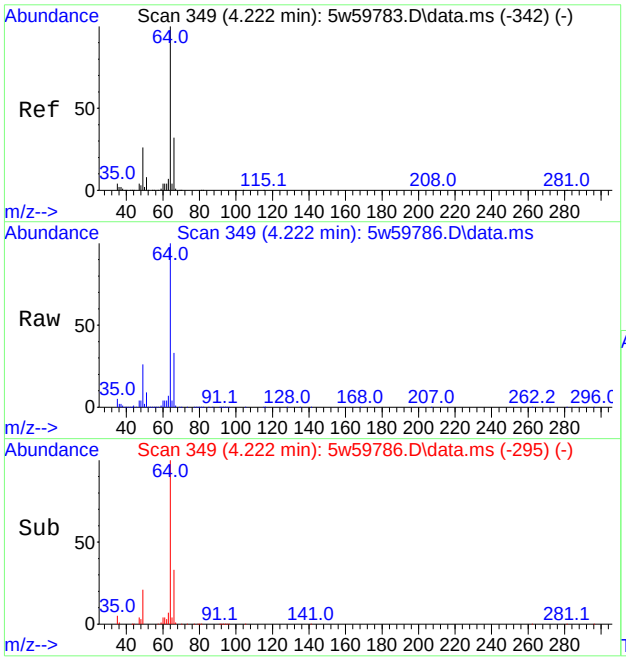


#14
BROMOMETHANE
Concen: 30.01 PPBV
RT: 4.099 min Scan# 329
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 94 Resp: 2201552

Ion	Ratio	Lower	Upper
94	100		
96	95.0	65.3	125.3
95	14.2	0.0	44.1

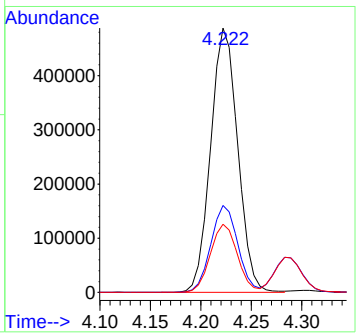


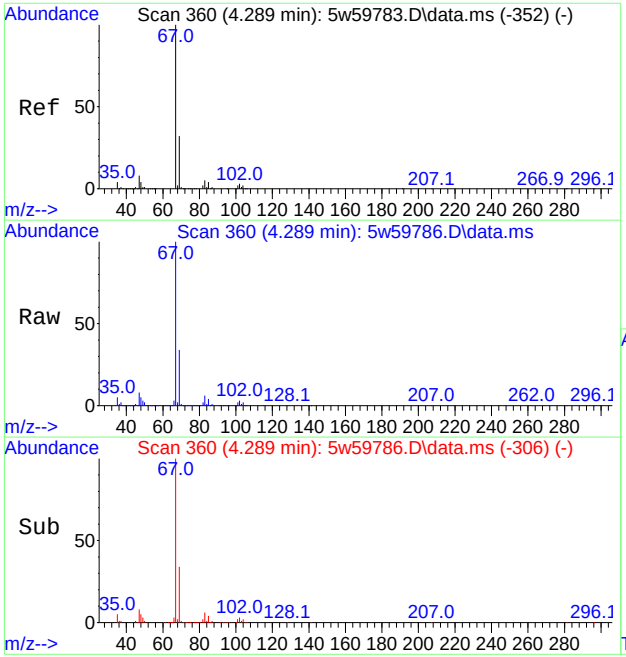


#15
CHLOROETHANE
Concen: 29.04 PPBV
RT: 4.222 min Scan# 349
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 64 Resp: 910647

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

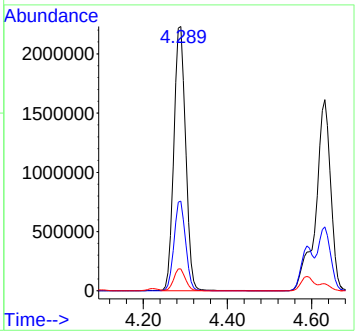


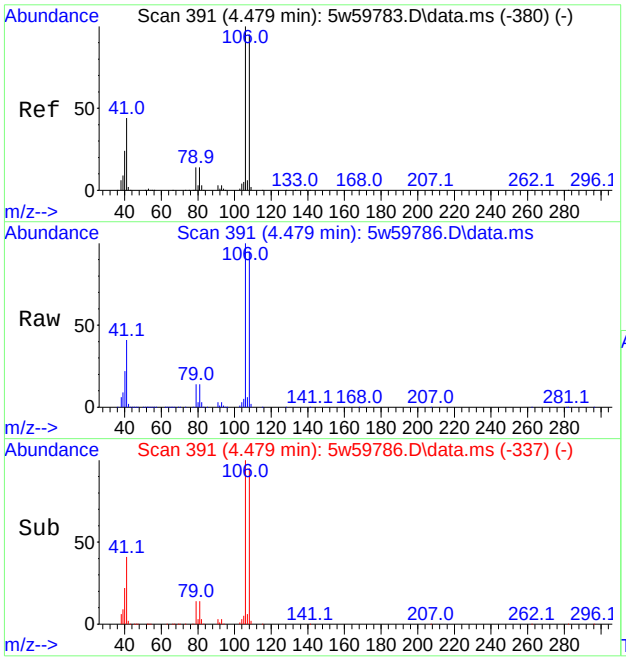


#16
DICHLOROFLUOROMETHANE
Concen: 28.26 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 67 Resp: 4344933

Ion	Ratio	Lower	Upper
67	100		
69	33.4	22.7	42.3
47	8.3	5.6	10.4

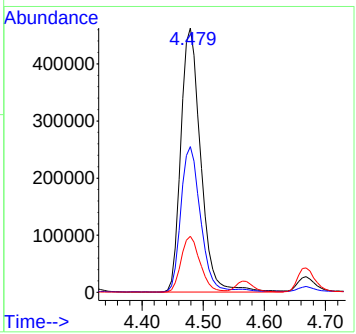


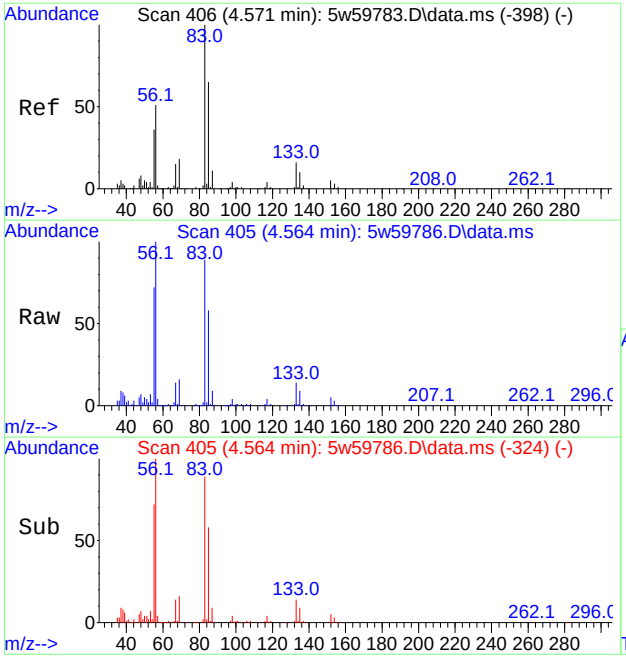


#17
ACETONITRILE
Concen: 24.43 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 41 Resp: 1047676

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.2	13.4	24.8

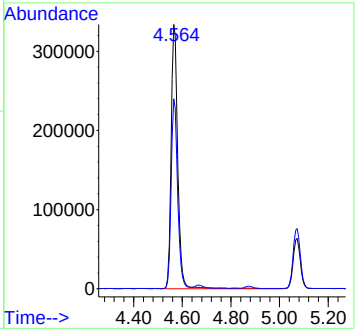


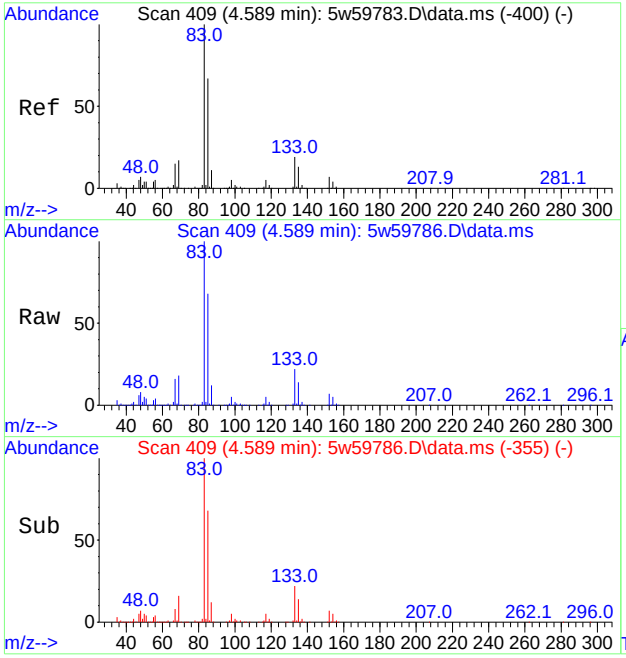


#18
ACROLEIN
Concen: 24.71 PPBV
RT: 4.564 min Scan# 405
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 56 Resp: 630972

Ion	Ratio	Lower	Upper
56	100		
55	70.2	46.6	86.6

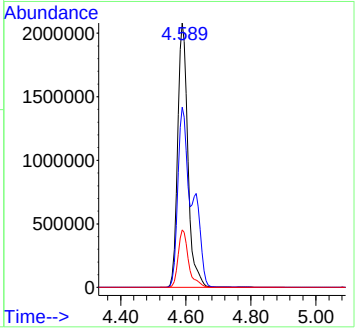


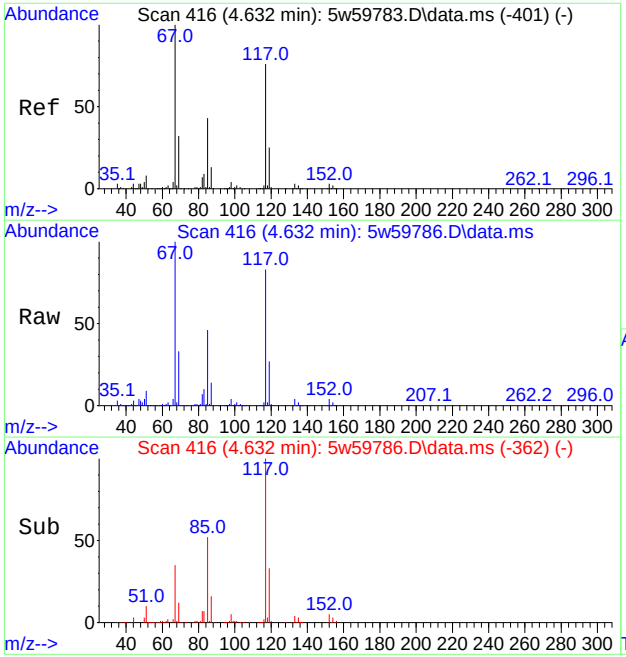


#19
FREON 123
Concen: 27.57 PPBV m
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 4570353

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.0	94.0
133	22.3	0.0	50.7

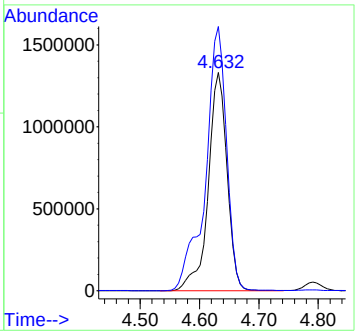


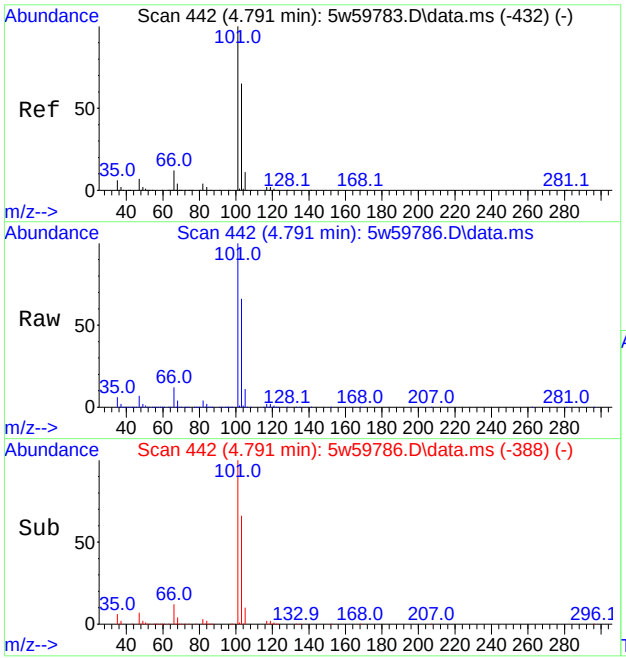


#20
FREON 123A
Concen: 29.40 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 2921341

Ion	Ratio	Lower	Upper
117	100		
67	135.7	114.6	174.6

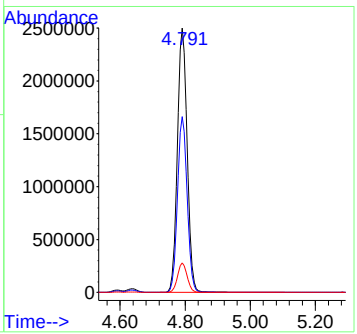


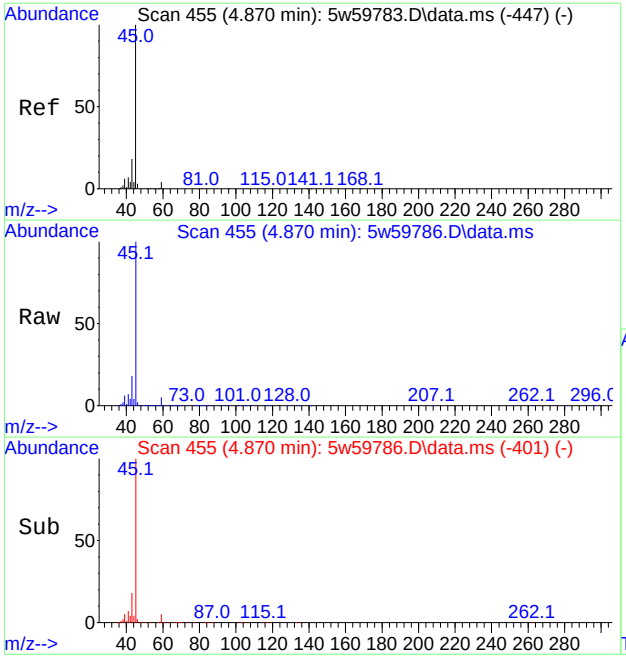


#21
TRICHLOROFLUOROMETHANE
Concen: 26.51 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:101 Resp: 5263086

Ion	Ratio	Lower	Upper
101	100		
103	65.9	35.0	95.0
105	11.0	0.0	40.7

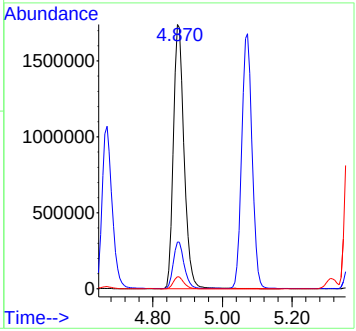


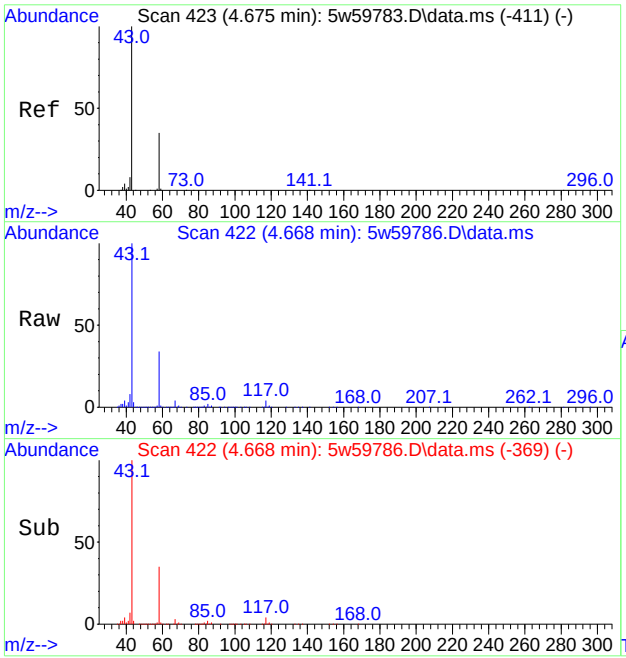


#22
ISOPROPYL ALCOHOL
Concen: 25.25 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 3712437

Ion	Ratio	Lower	Upper
45	100		
43	17.7	0.0	47.8
59	4.6	0.0	34.1

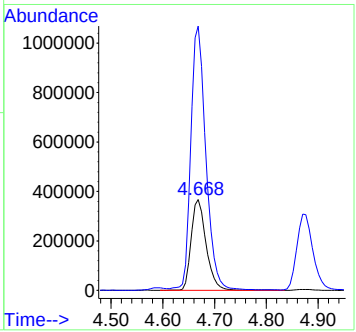


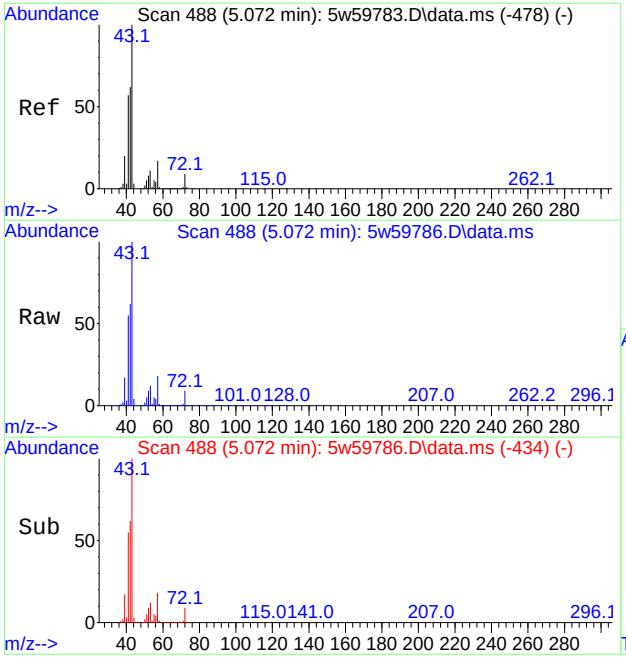


#23
ACETONE
Concen: 25.68 PPBV
RT: 4.668 min Scan# 422
Delta R.T. -0.007 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 738868

Ion	Ratio	Lower	Upper
58	100		
43	289.9	252.3	312.3

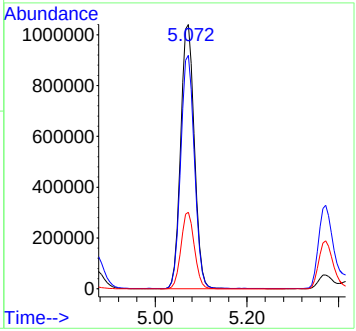


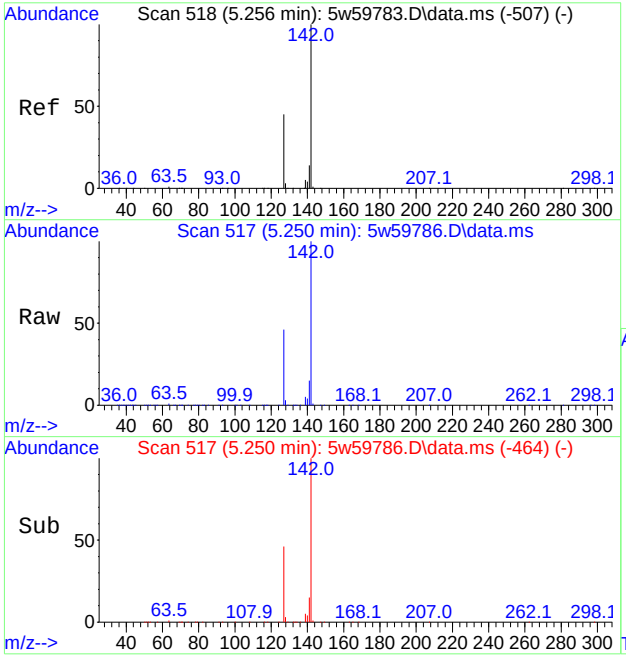


#24
PENTANE
Concen: 29.26 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 42 Resp: 2159289

Ion	Ratio	Lower	Upper
42	100		
41	88.6	62.3	122.3
57	28.5	0.0	57.7

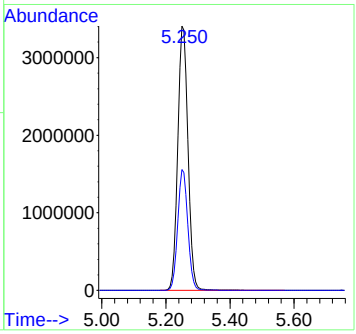


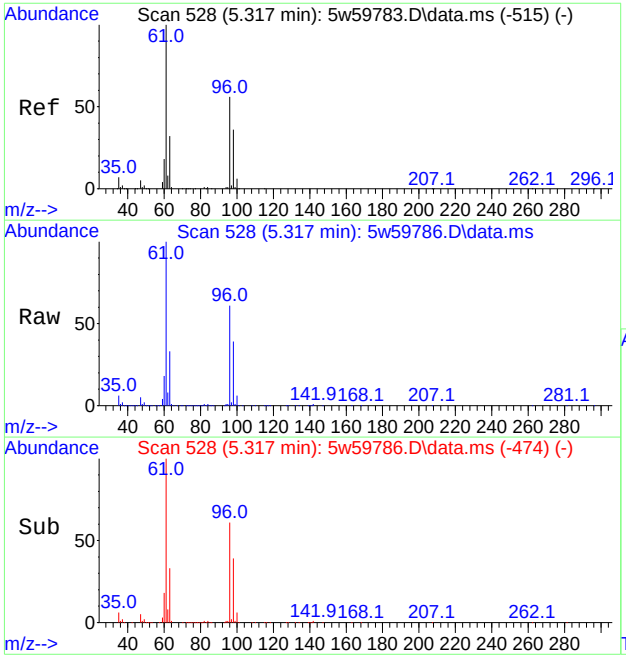


#25
IODOMETHANE
Concen: 35.46 PPBV
RT: 5.250 min Scan# 517
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:142 Resp: 7543155

Ion	Ratio	Lower	Upper
142	100		
127	45.2	16.0	76.0

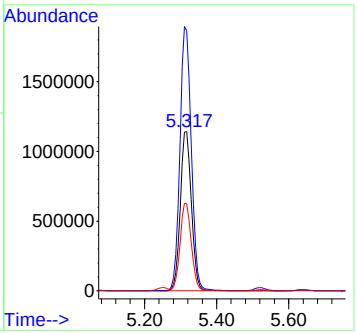


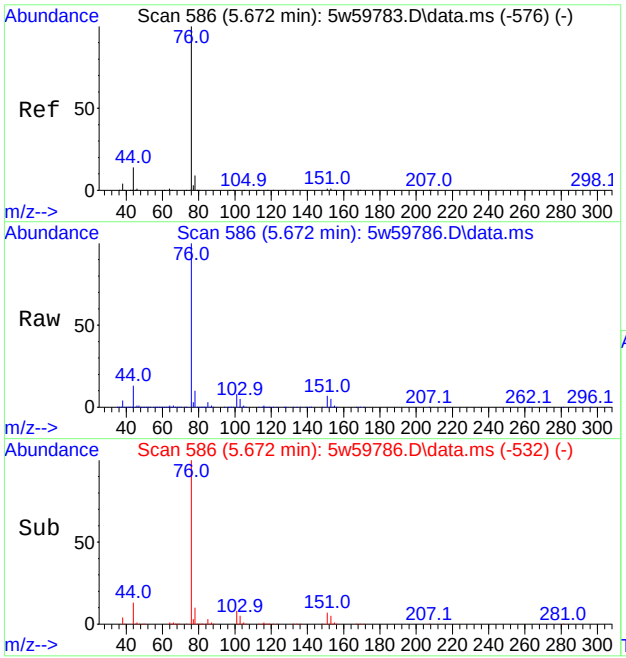


#26
1,1-DICHLOROETHYLENE
Concen: 33.22 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2443503

Ion	Ratio	Lower	Upper
96	100		
61	169.6	148.5	208.5
63	55.5	27.4	87.4

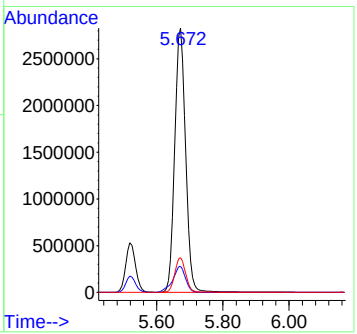


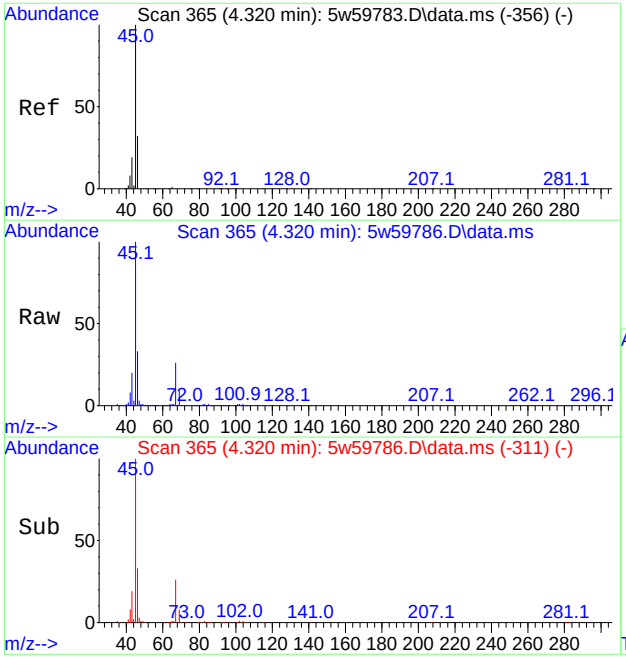


#27
CARBON DISULFIDE
Concen: 33.10 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 6480951

Ion	Ratio	Lower	Upper
76	100		
78	11.6	0.0	41.5
44	13.1	0.0	44.6

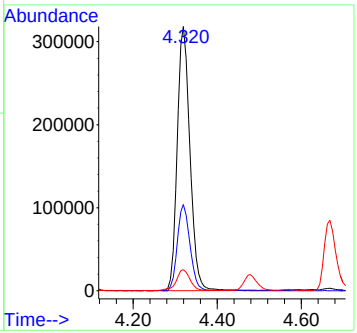


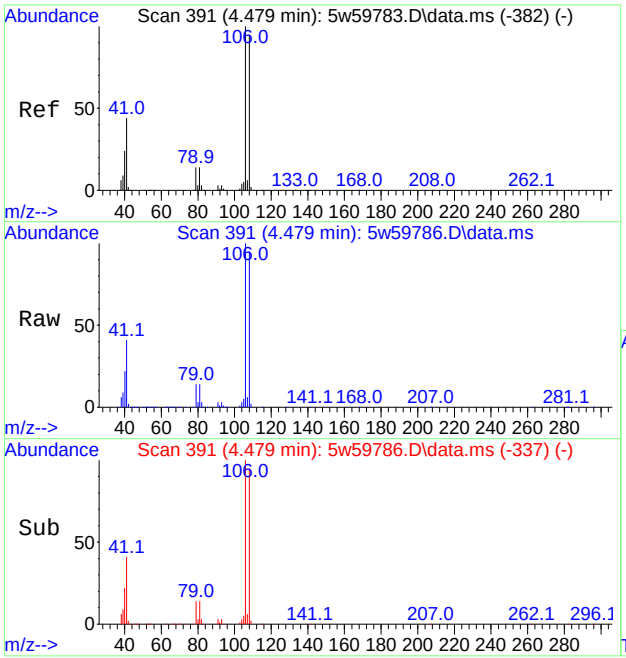


#28
ETHANOL
Concen: 25.13 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 45 Resp: 668282

Ion	Ratio	Lower	Upper
45	100		
46	32.6	2.0	62.0
42	8.5	0.0	38.5

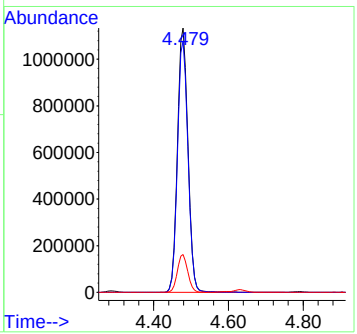


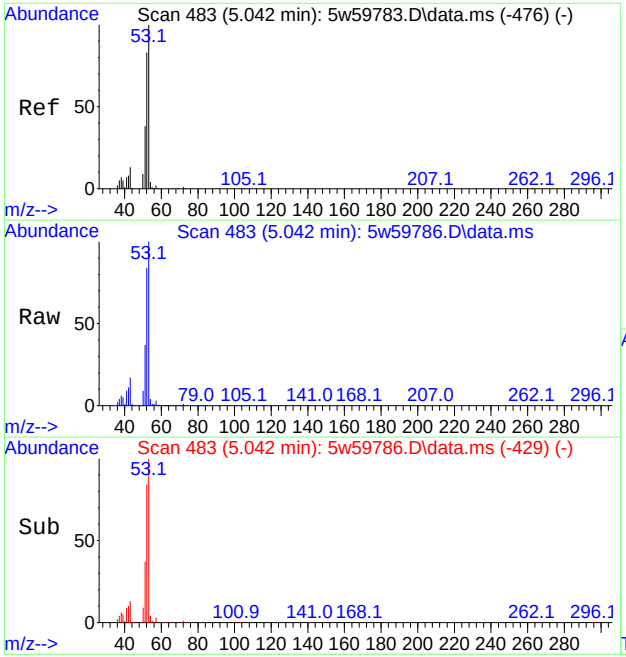


#29
BROMOETHENE
Concen: 32.02 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 2216899

Ion	Ratio	Lower	Upper
106	100		
108	95.4	65.6	125.6
81	14.3	0.0	43.9

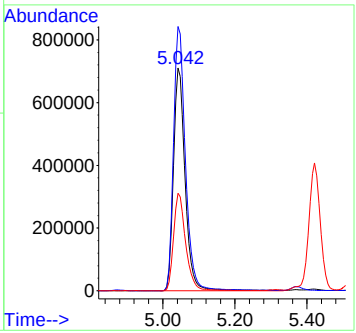


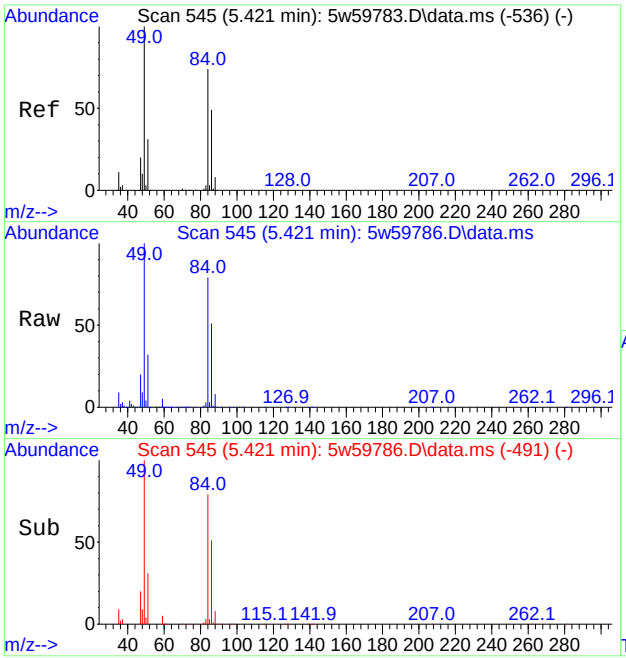


#30
ACRYLONITRILE
Concen: 34.08 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 52 Resp: 1601584

Ion	Ratio	Lower	Upper
52	100		
53	121.7	85.8	159.4
51	45.3	32.3	60.1

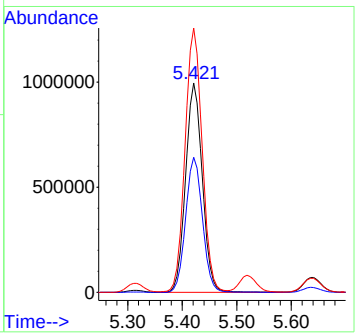


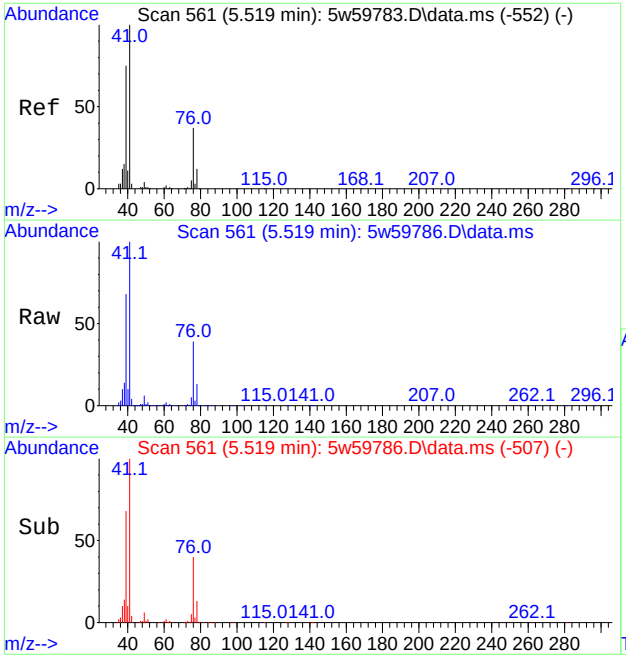


#31
METHYLENE CHLORIDE
Concen: 32.13 PPBV
RT: 5.421 min Scan# 545
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2117266

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	128.7	105.3	165.3

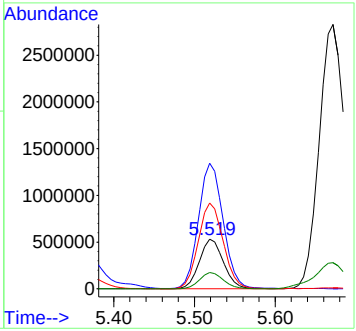


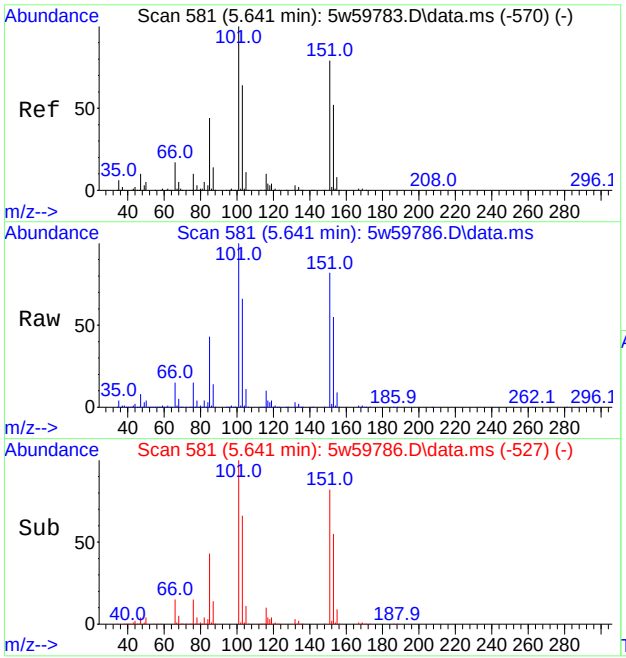


#32
3-CHLOROPROPENE
Concen: 35.87 PPBV
RT: 5.519 min Scan# 561
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 1102190

Ion	Ratio	Lower	Upper
76	100		
41	259.8	240.8	300.8
39	178.8	173.6	233.6
78	32.8	2.8	62.8

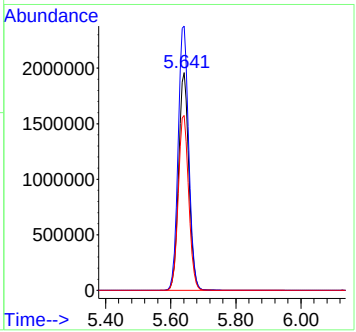


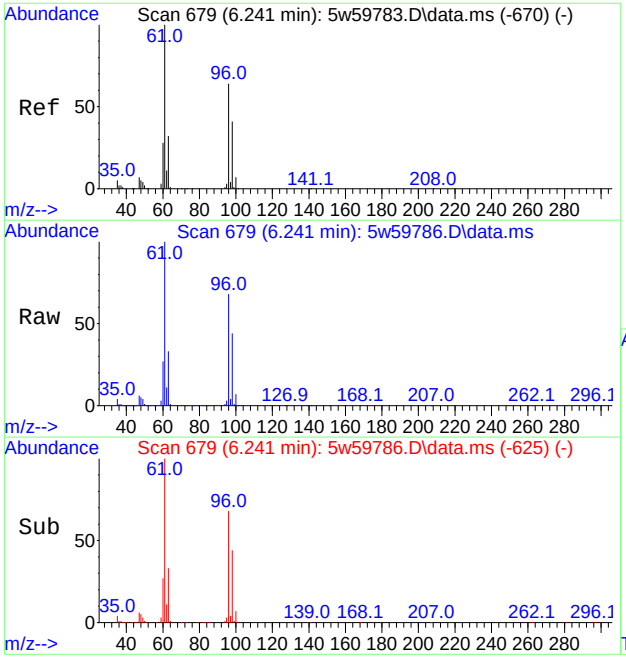


#33
FREON 113
Concen: 33.71 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:151 Resp: 4335347

Ion	Ratio	Lower	Upper
151	100		
101	124.7	97.5	157.5
103	81.6	52.5	112.5

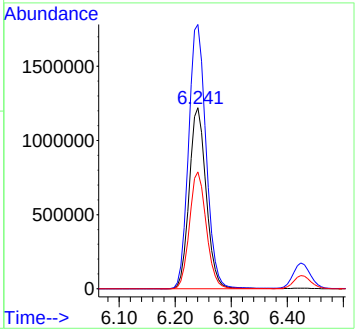


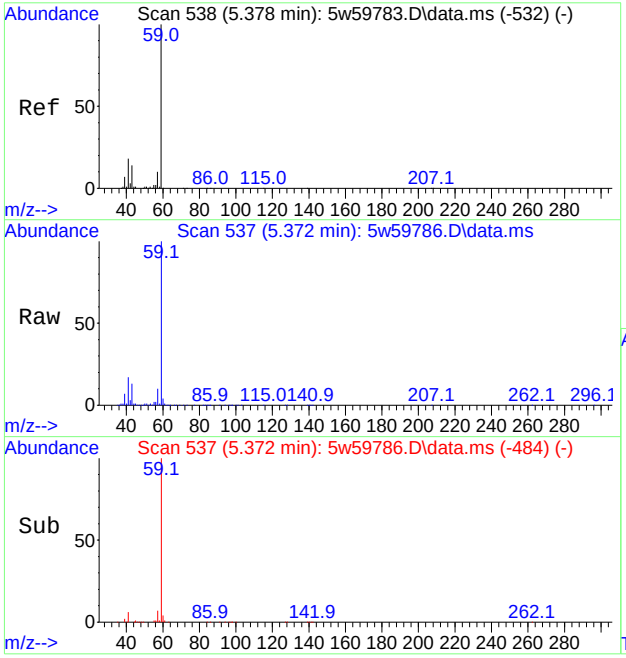


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 33.70 PPBV
RT: 6.241 min Scan# 679
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2566855

Ion	Ratio	Lower	Upper
96	100		
61	150.4	126.4	186.4
98	64.4	34.1	94.1

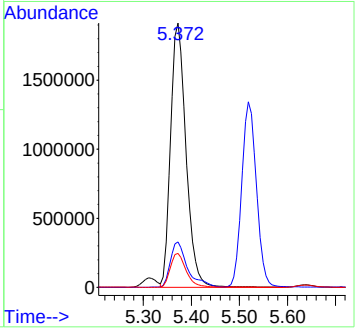


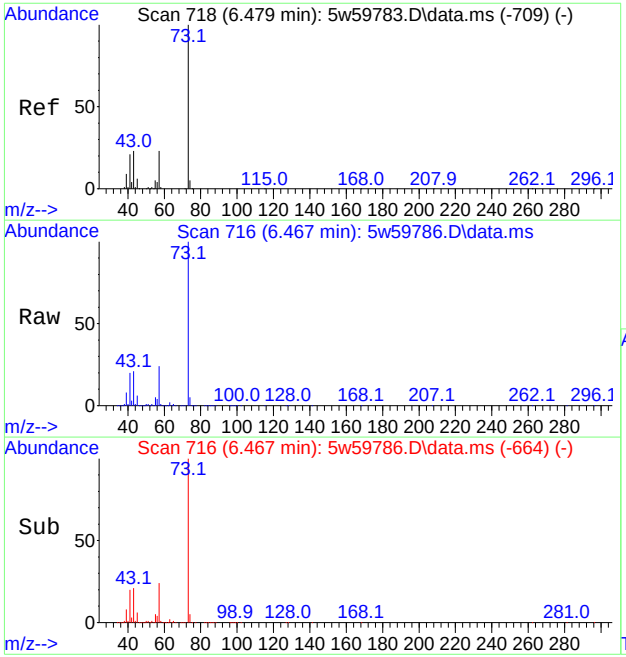


#35
TERTIARY BUTYL ALCOHOL
Concen: 27.79 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 4270952

Ion	Ratio	Lower	Upper
59	100		
41	19.1	0.0	49.3
43	13.2	0.0	44.1

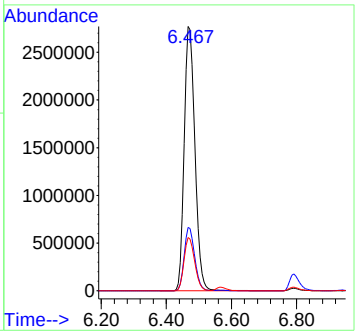


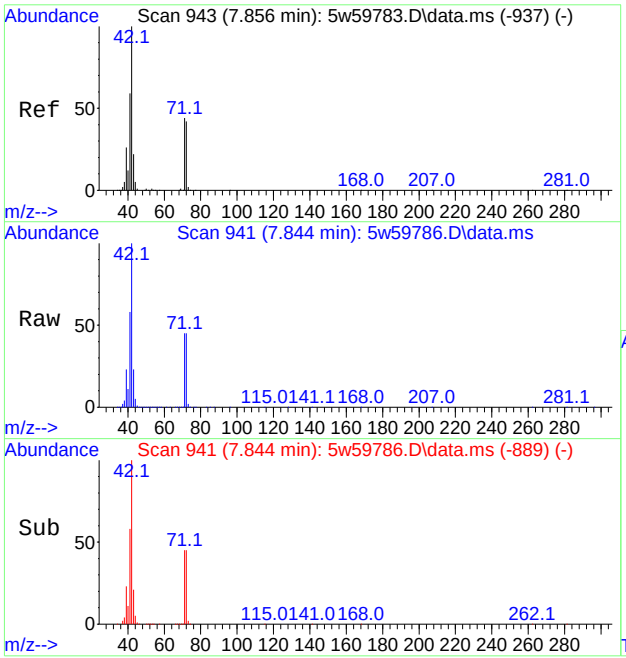


#36
METHYL TERTIARY BUTYL ETHER
Concen: 33.80 PPBV
RT: 6.467 min Scan# 716
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 73 Resp: 6337595

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	53.1
41	20.0	0.0	50.6

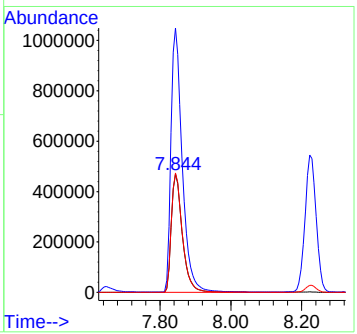


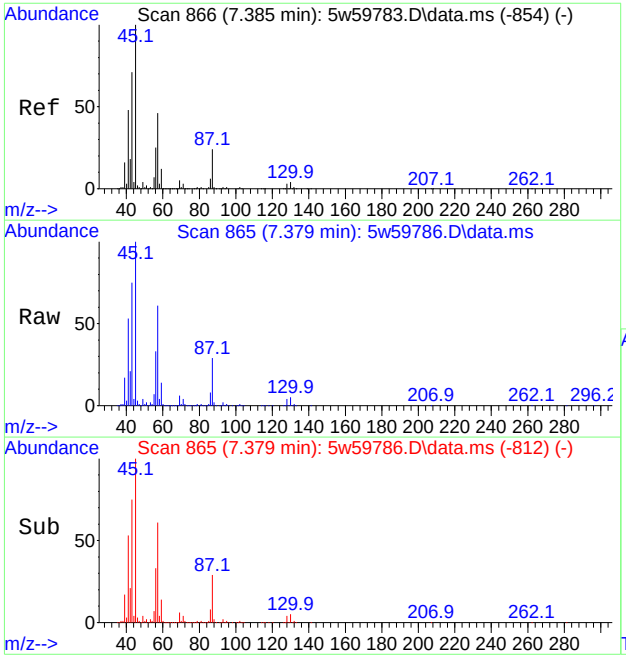


#37
TETRAHYDROFURAN
Concen: 37.42 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1023793

Ion	Ratio	Lower	Upper
72	100		
42	225.7	202.4	262.4
71	100.8	71.1	131.1

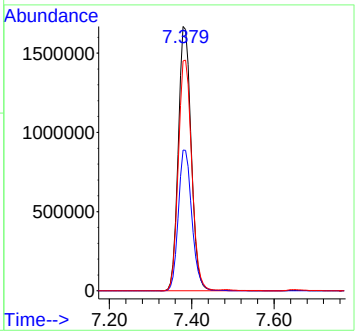


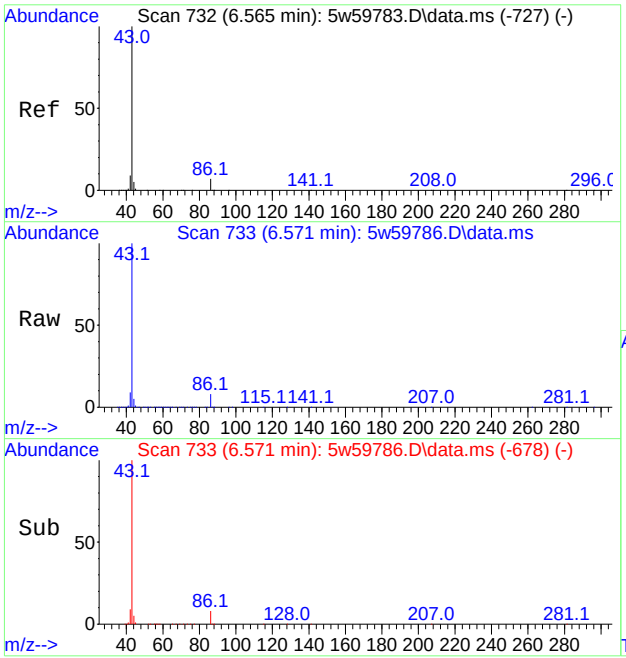


#38
HEXANE
Concen: 34.89 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 3623516

Ion	Ratio	Lower	Upper
57	100		
56	56.2	25.9	85.9
41	91.2	74.7	134.7

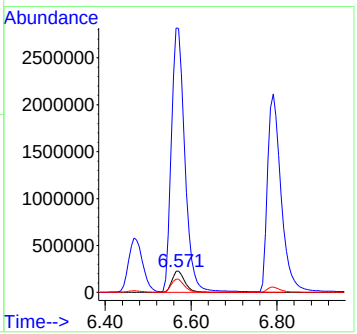


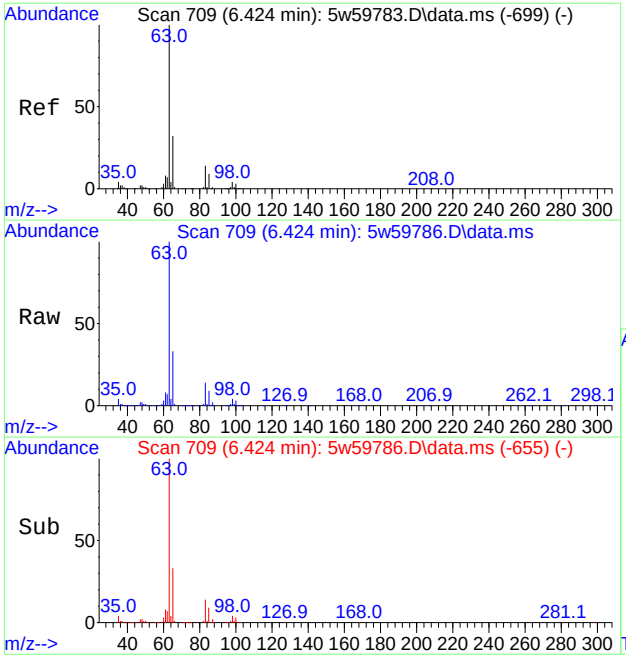


#39
VINYL ACETATE
Concen: 39.37 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 86 Resp: 477066

Ion	Ratio	Lower	Upper
86	100		
43	1285.9	1379.7	1439.7#
44	63.4	36.9	96.9

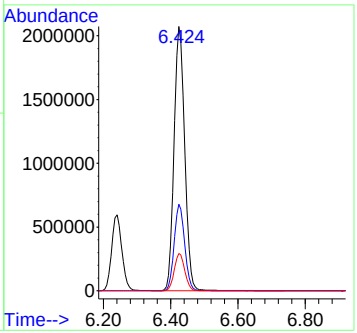


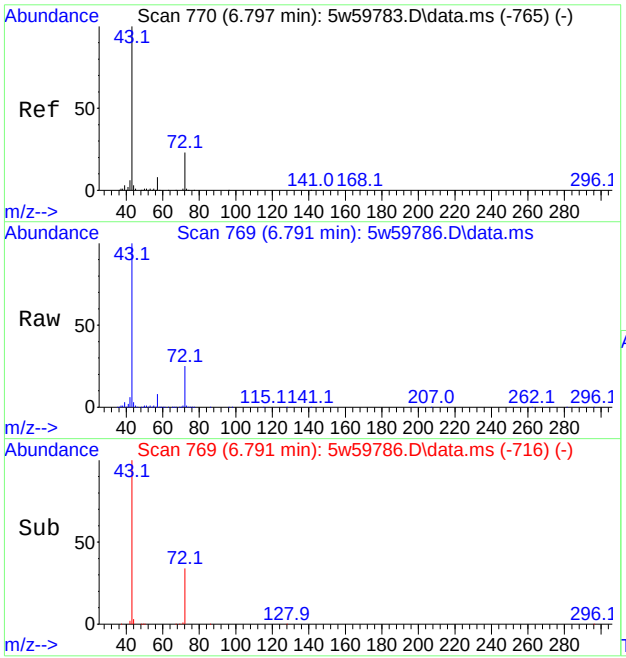


#40
1,1-DICHLOROETHANE
Concen: 33.30 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 4545260

Ion	Ratio	Lower	Upper
63	100		
65	32.4	1.7	61.7
83	13.9	0.0	43.5

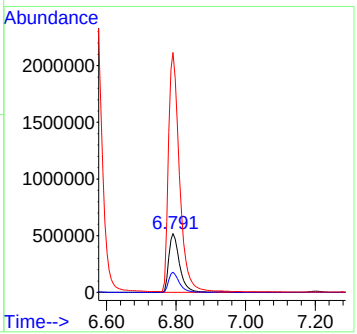


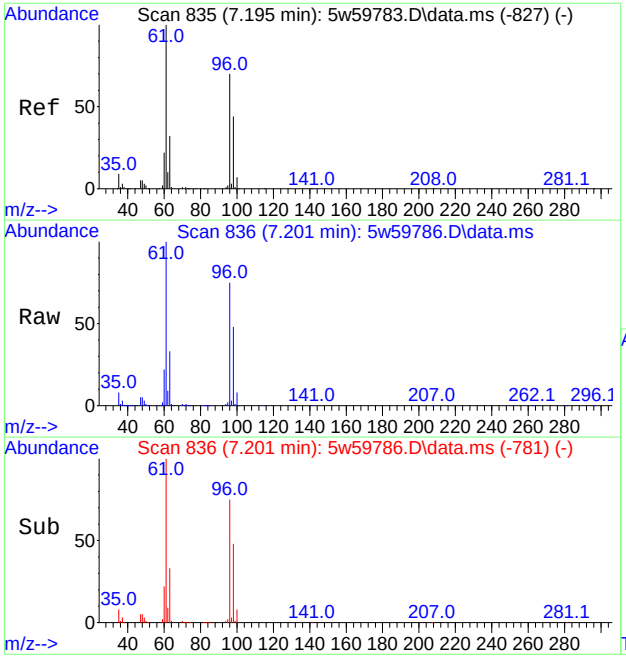


#41
METHYL ETHYL KETONE
Concen: 39.33 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 72 Resp: 1116320

Ion	Ratio	Lower	Upper
72	100		
57	34.3	4.8	64.8
43	407.4	415.9	475.9#

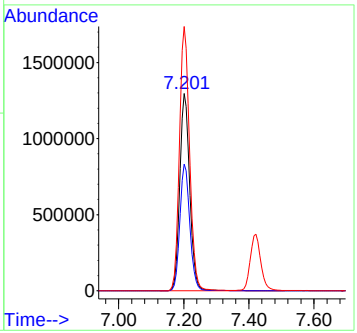


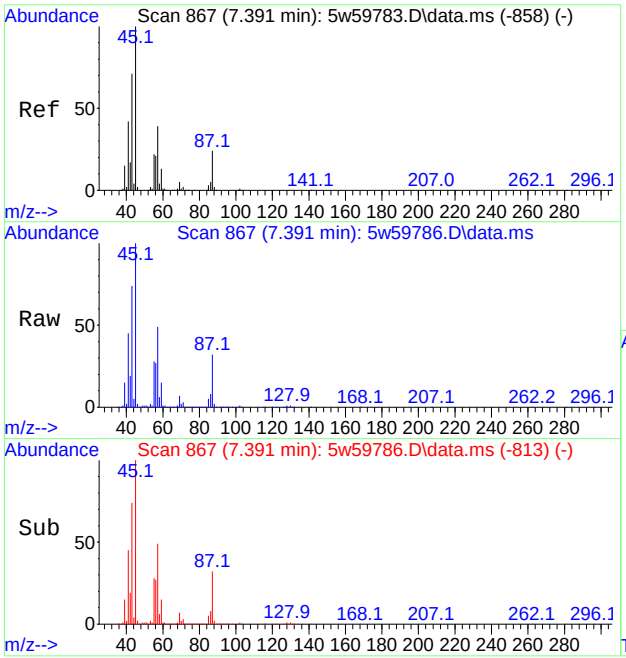


#42
cis-1,2-DICHLOROETHYLENE
Concen: 35.23 PPBV
RT: 7.201 min Scan# 836
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 96 Resp: 2772689

Ion	Ratio	Lower	Upper
96	100		
98	64.5	34.0	94.0
61	136.2	111.5	171.5

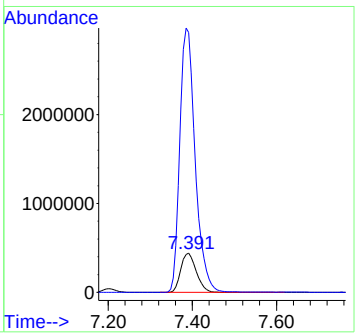


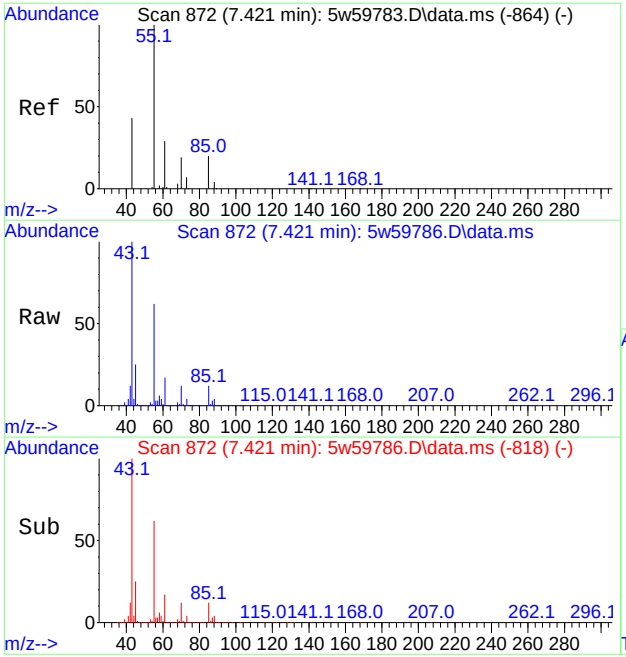


#43
DIISOPROPYL ETHER
Concen: 38.69 PPBV
RT: 7.391 min Scan# 867
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 59 Resp: 1134199

Ion	Ratio	Lower	Upper
59	100		
45	668.8	720.9	780.9#

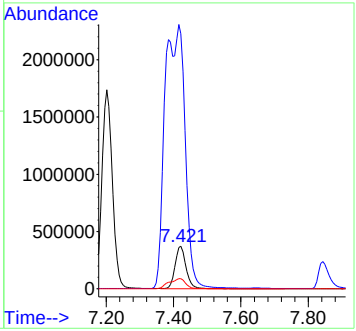


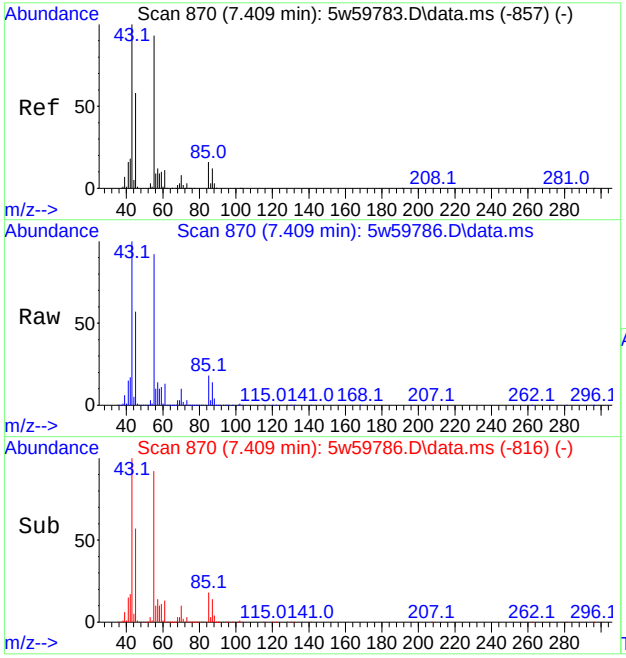


#44
ETHYL ACETATE
Concen: 34.91 PPBV m
RT: 7.421 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 61 Resp: 845012

Ion	Ratio	Lower	Upper
61	100		
43	618.0	560.5	620.5
88	37.0	4.5	64.5

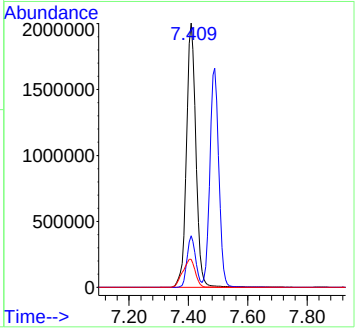


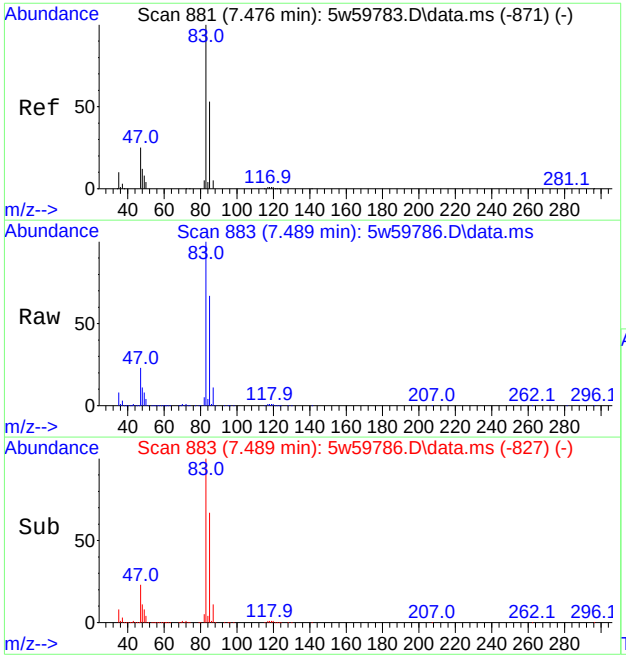


#45
METHYL ACRYLATE
Concen: 33.33 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 4442118

Ion	Ratio	Lower	Upper
55	100		
85	17.9	10.9	20.3
58	14.3	9.4	17.6

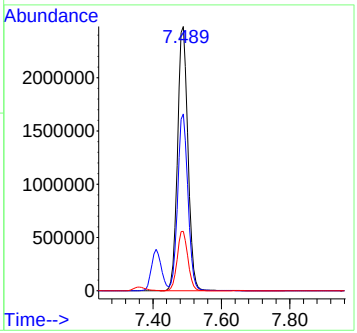


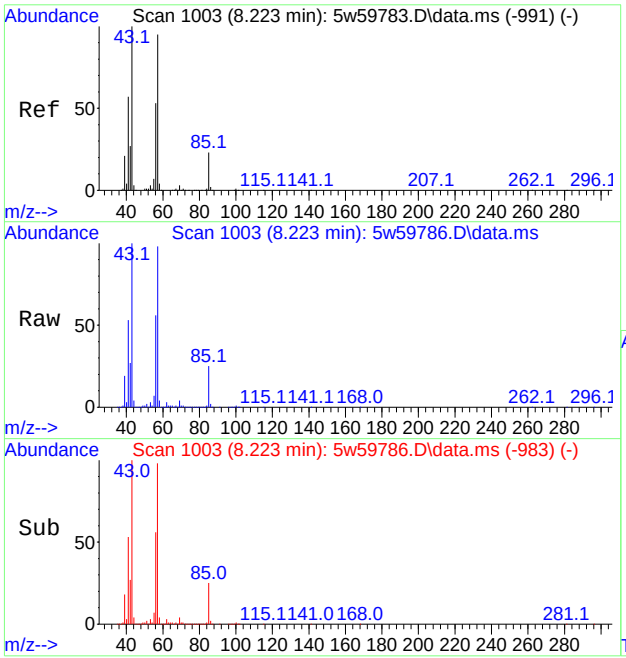


#46
CHLOROFORM
Concen: 33.15 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 5265891

Ion	Ratio	Lower	Upper
83	100		
85	66.3	35.6	95.6
47	23.1	0.0	55.2

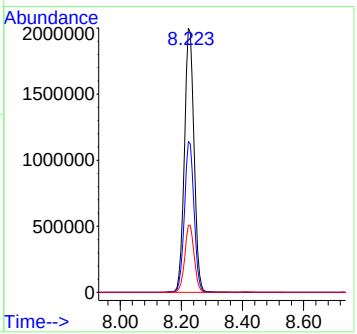


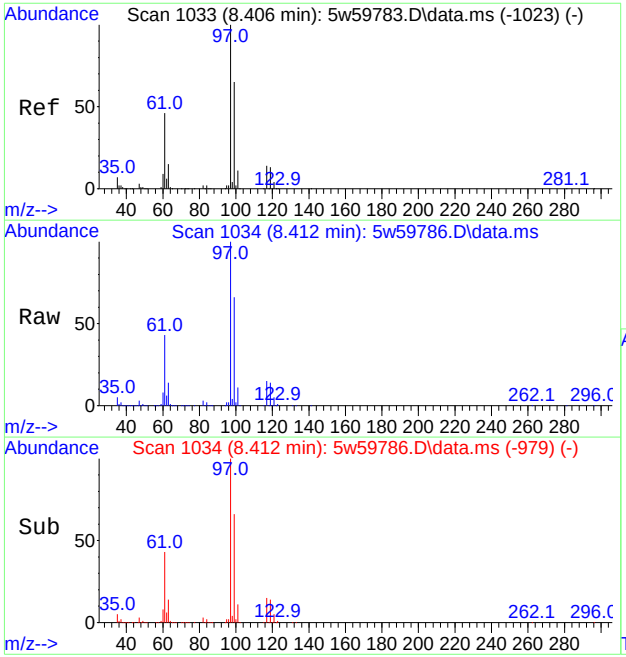


#47
2,4-DIMETHYLPENTANE
Concen: 35.95 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp: 4372372

Ion	Ratio	Lower	Upper
57	100		
56	57.3	26.5	86.5
85	25.1	0.0	53.8

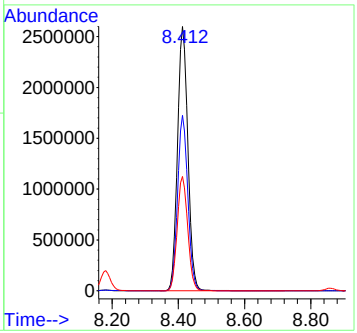


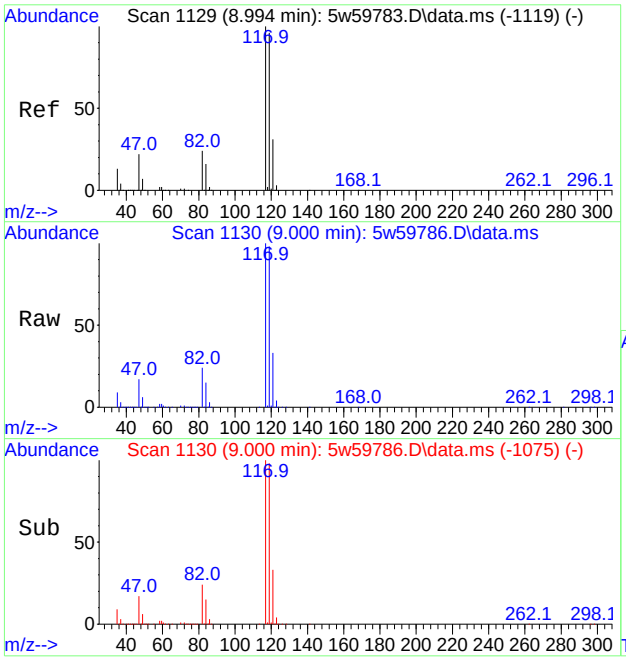


#48
1,1,1-TRICHLOROETHANE
Concen: 33.44 PPBV
RT: 8.412 min Scan# 1034
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 97 Resp: 5674011

Ion	Ratio	Lower	Upper
97	100		
99	65.7	34.8	94.8
61	43.9	15.8	75.8

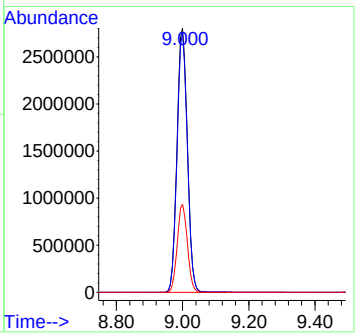


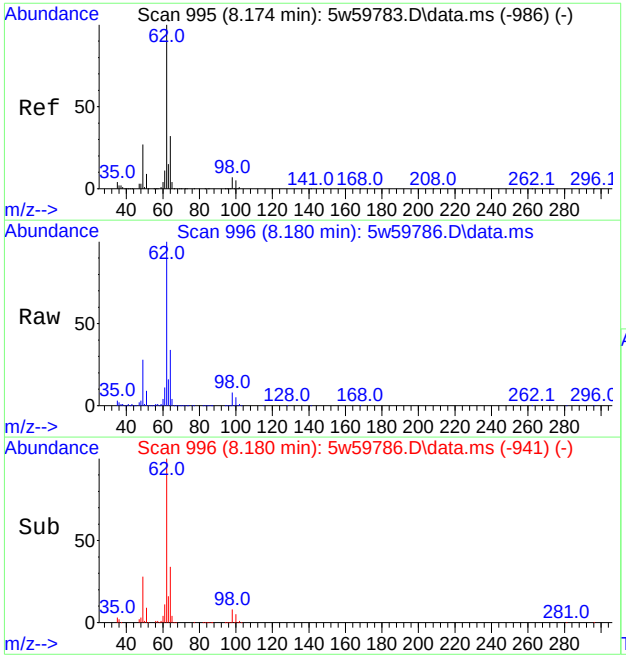


#49
CARBON TETRACHLORIDE
Concen: 33.09 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 6150579

Ion	Ratio	Lower	Upper
117	100		
119	97.1	66.9	126.9
121	32.6	1.3	61.3

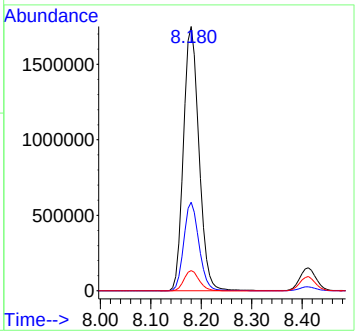


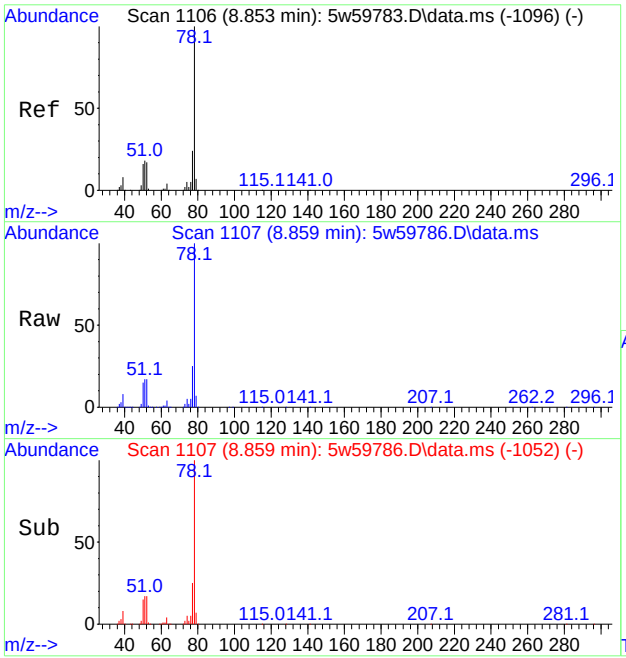


#50
1,2-DICHLOROETHANE
Concen: 33.65 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 62 Resp: 3745660

Ion	Ratio	Lower	Upper
62	100		
64	32.9	2.3	62.3
98	7.5	0.0	36.9

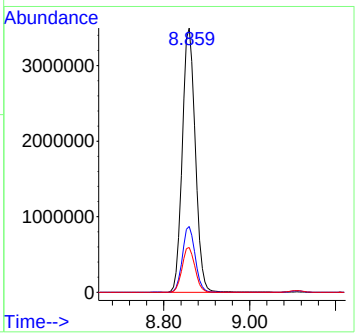


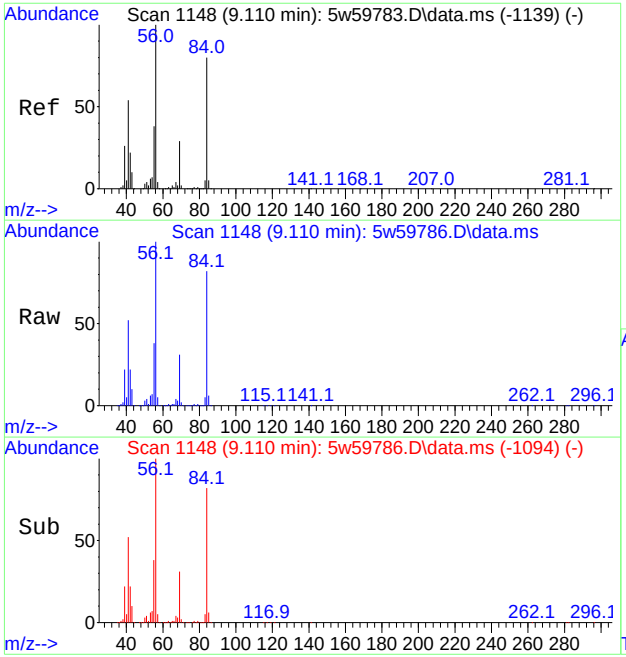


#52
BENZENE
Concen: 40.36 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 78 Resp: 7354311

Ion	Ratio	Lower	Upper
78	100		
77	24.5	0.0	53.8
52	17.0	0.0	46.9

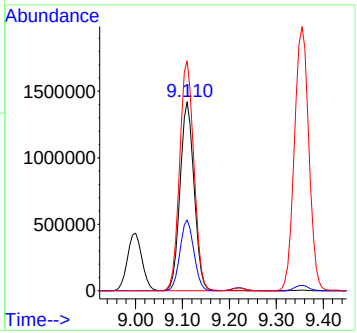


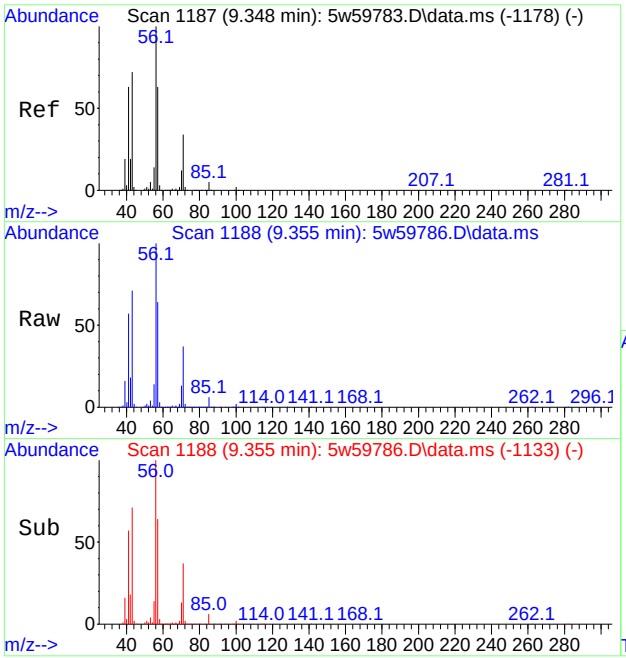


#53
CYCLOHEXANE
Concen: 40.67 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 84 Resp: 2949070

Ion	Ratio	Lower	Upper
84	100		
69	37.3	6.9	66.9
56	124.0	98.2	158.2

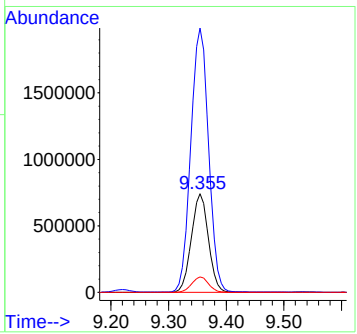


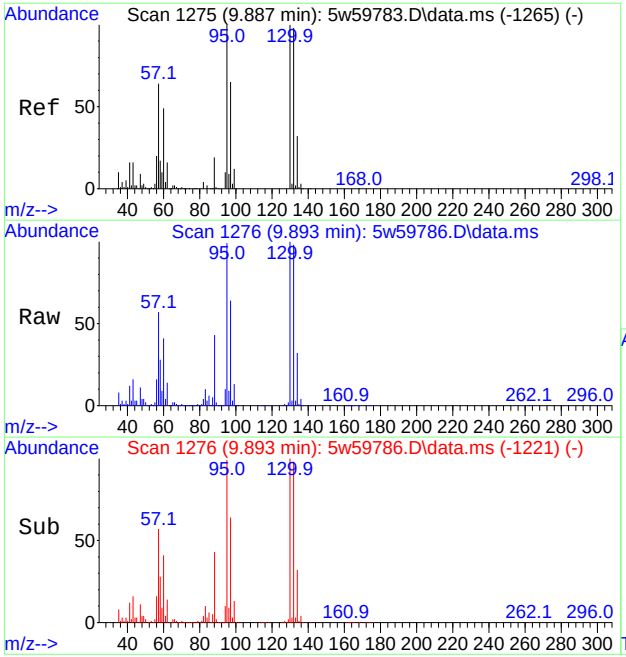


#54
2,3-DIMETHYLPENTANE
Concen: 42.20 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 71 Resp: 1522391

Ion	Ratio	Lower	Upper
71	100		
56	280.1	264.6	324.6
85	15.6	0.0	45.3

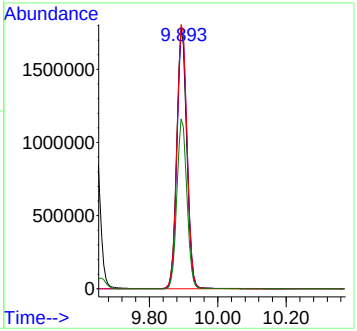


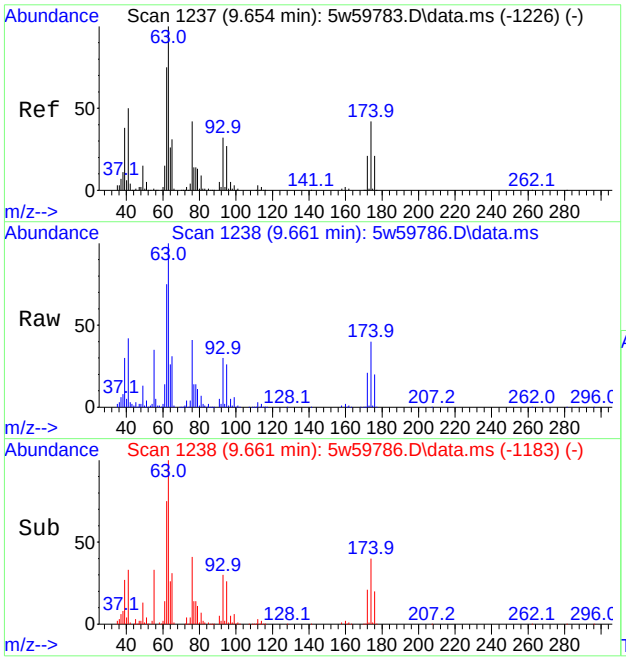


#55
TRICHLOROETHYLENE
Concen: 37.53 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 95 Resp: 3632086

Ion	Ratio	Lower	Upper
95	100		
132	100.6	69.0	129.0
130	103.1	70.6	130.6
97	65.4	34.6	94.6

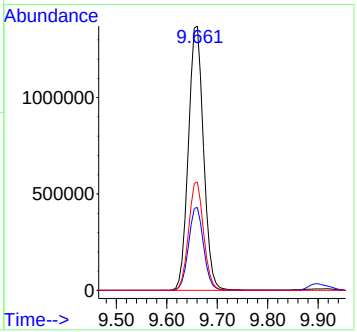


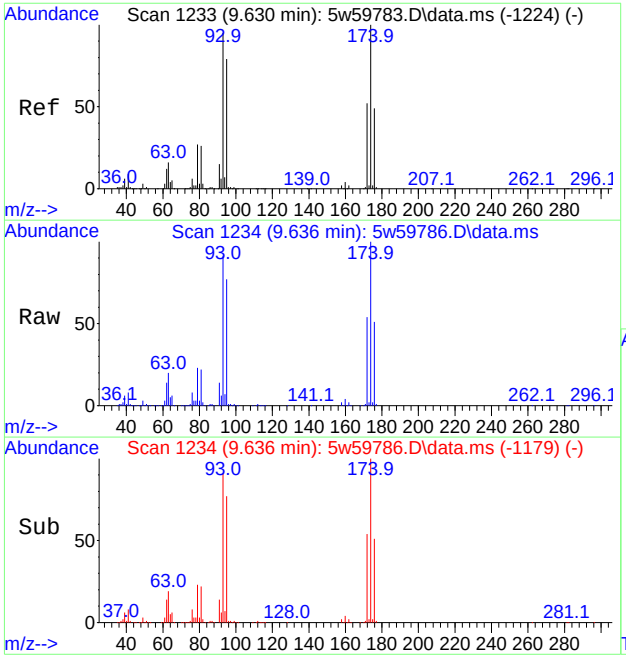


#56
1,2-DICHLOROPROPANE
Concen: 37.03 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 63 Resp: 2868397

Ion	Ratio	Lower	Upper
63	100		
65	31.3	0.5	60.5
76	40.8	11.5	71.5

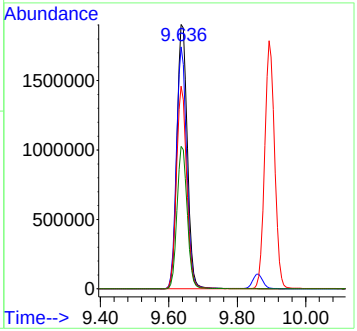


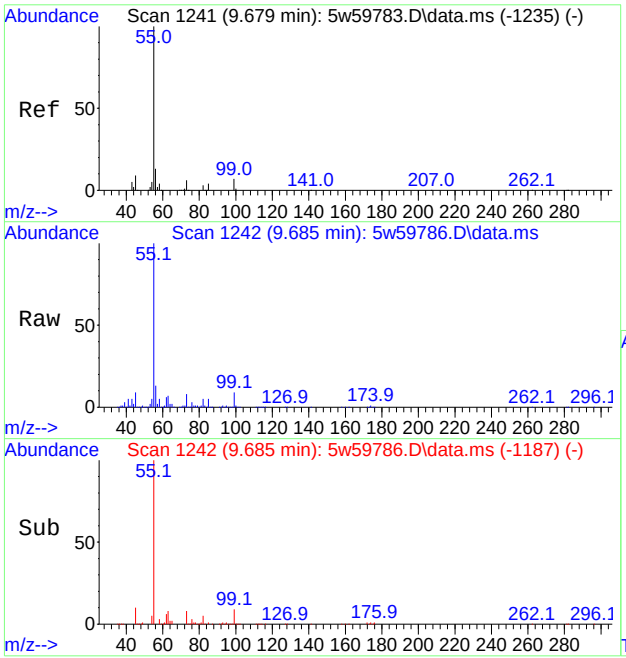


#57
DIBROMOMETHANE
Concen: 38.37 PPBV
RT: 9.636 min Scan# 1234
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:174 Resp: 4006214

Ion	Ratio	Lower	Upper
174	100		
93	90.3	65.0	120.6
95	75.8	54.5	101.1
172	53.2	36.3	67.5

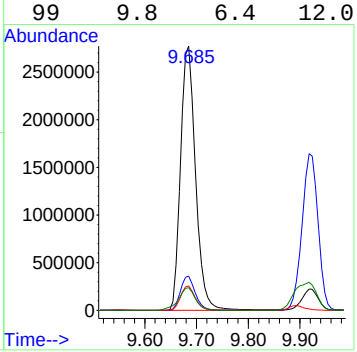


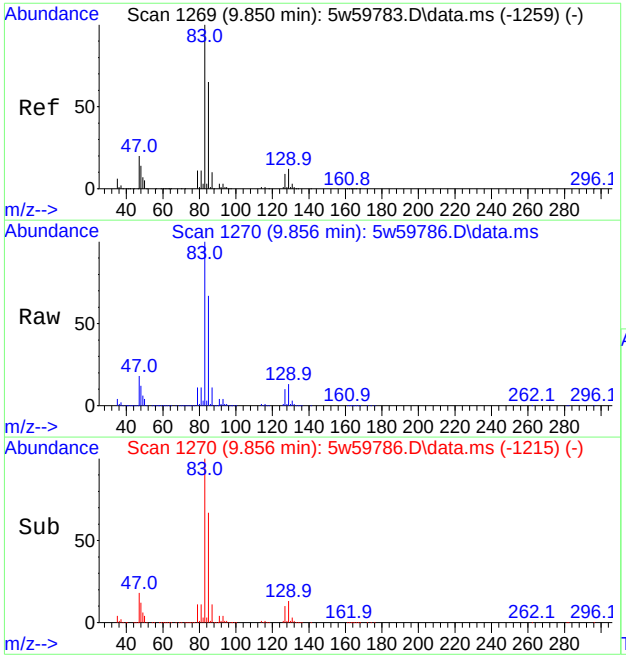


#58
ETHYL ACRYLATE
Concen: 37.54 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 55 Resp: 5610538

Ion	Ratio	Lower	Upper
55	100		
56	12.7	8.6	16.0
45	9.0	6.6	12.2
99	9.8	6.4	12.0

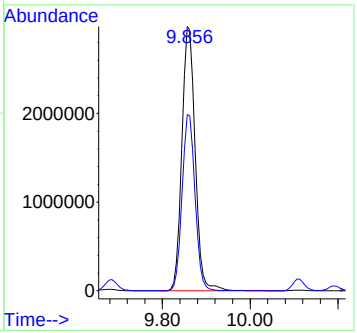


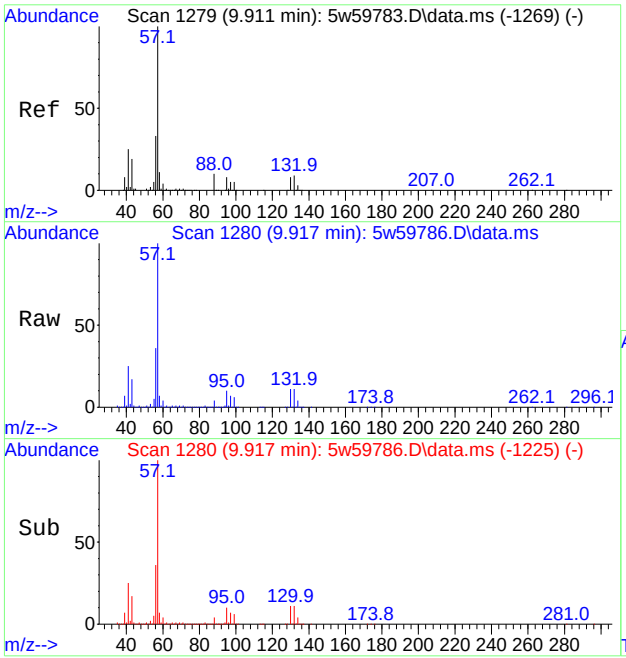


#59
BROMODICHLOROMETHANE
Concen: 37.04 PPBV
RT: 9.856 min Scan# 1270
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6264555

Ion	Ratio	Lower	Upper
83	100		
85	65.2	33.4	93.4

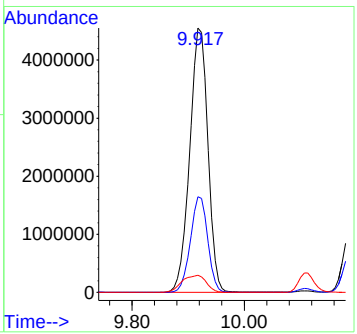


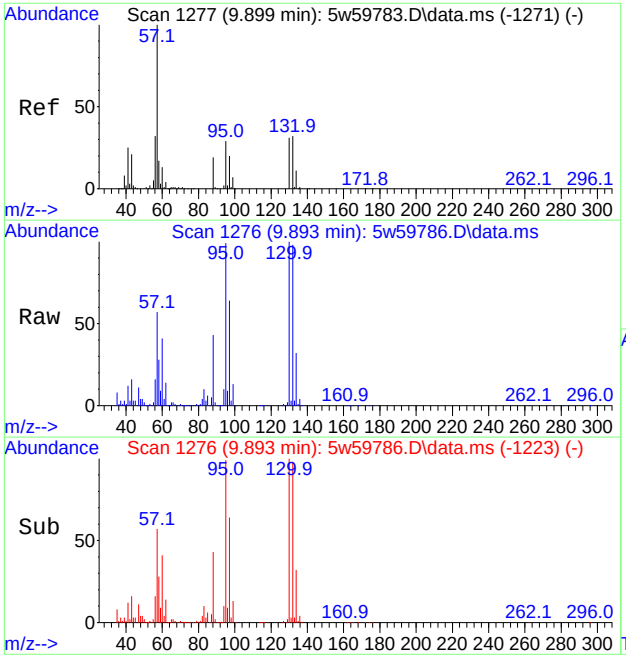


#60
2,2,4-TRIMETHYLPENTANE
Concen: 34.27 PPBV
RT: 9.917 min Scan# 1280
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 57 Resp:10265949

Ion	Ratio	Lower	Upper
57	100		
56	34.3	2.5	62.5
99	8.6	0.0	37.3

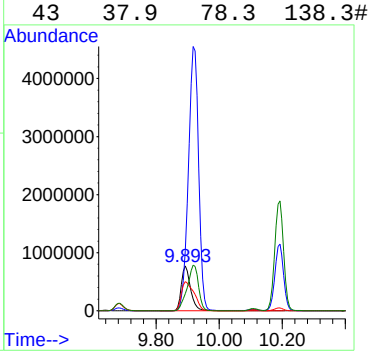


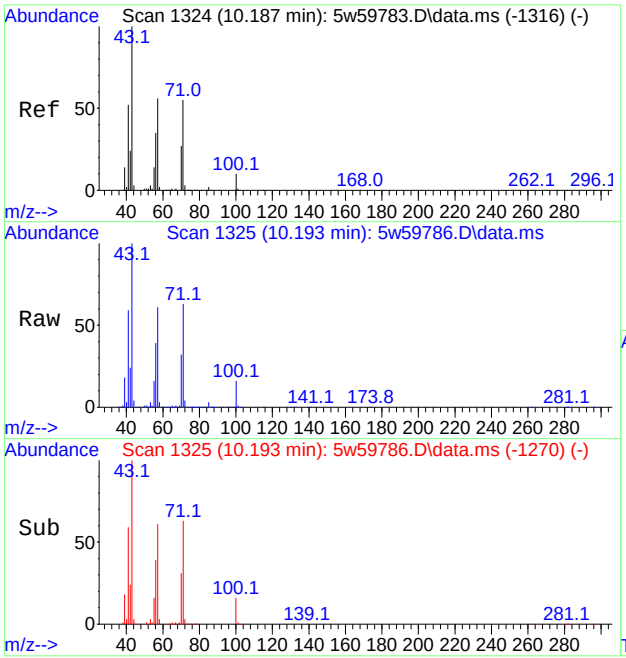


#61
1,4-DIOXANE
Concen: 39.31 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 88 Resp: 1571741

Ion	Ratio	Lower	Upper
88	100		
57	134.3	494.2	554.2#
58	65.0	58.9	118.9
43	37.9	78.3	138.3#

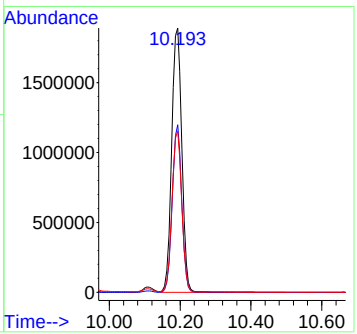


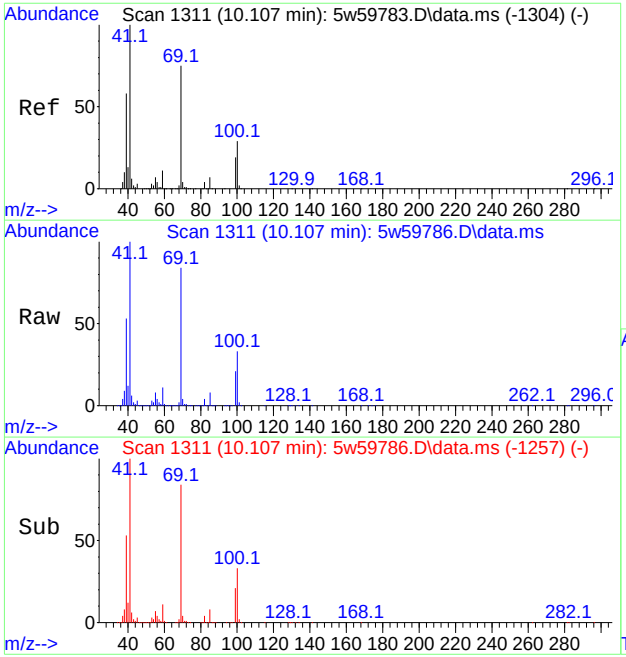


#62
HEPTANE
Concen: 36.15 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 3734901

Ion	Ratio	Lower	Upper
43	100		
71	59.6	24.5	84.5
57	59.3	26.2	86.2

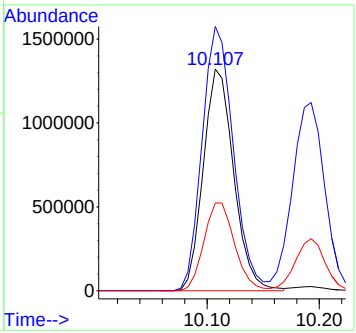


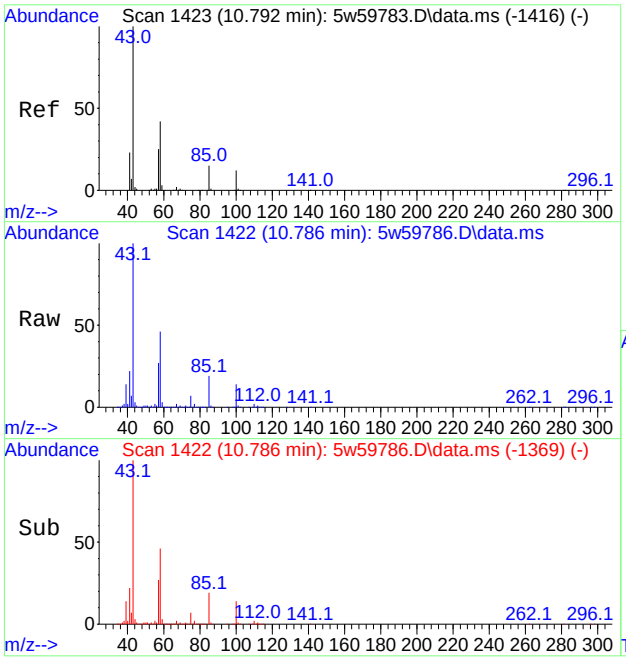


#63
METHYL METHACRYLATE
Concen: 41.16 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 2494133

Ion	Ratio	Lower	Upper
69	100		
41	121.8	95.3	155.3
100	40.1	6.3	66.3

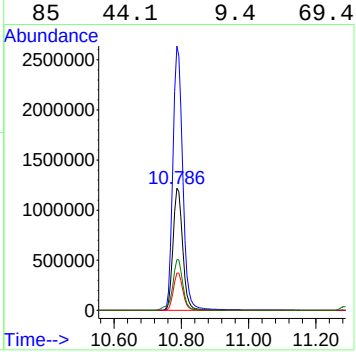


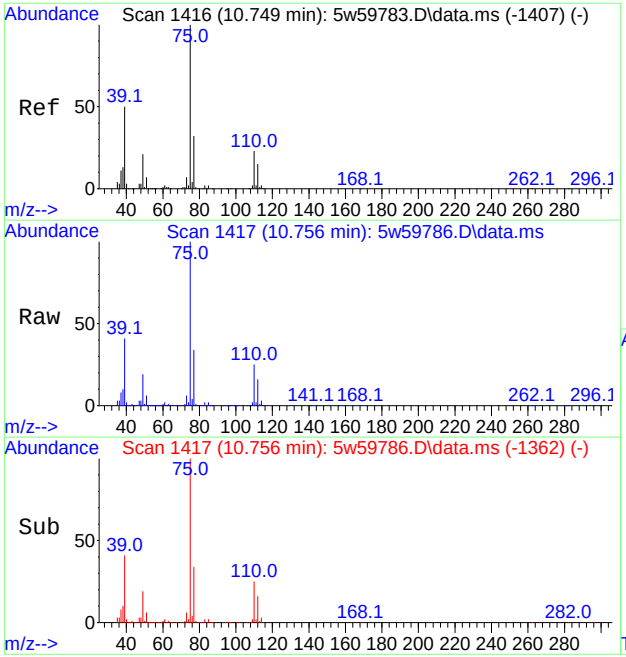


#64
METHYL ISOBUTYL KETONE
Concen: 38.84 PPBV
RT: 10.786 min Scan# 1422
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 2440543

Ion	Ratio	Lower	Upper
58	100		
43	220.5	209.2	269.2
100	30.5	0.0	58.8
85	44.1	9.4	69.4

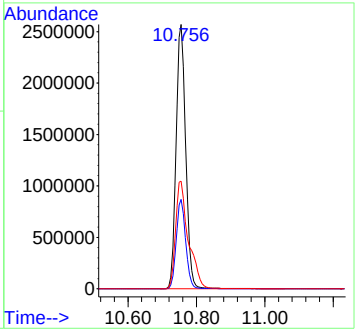


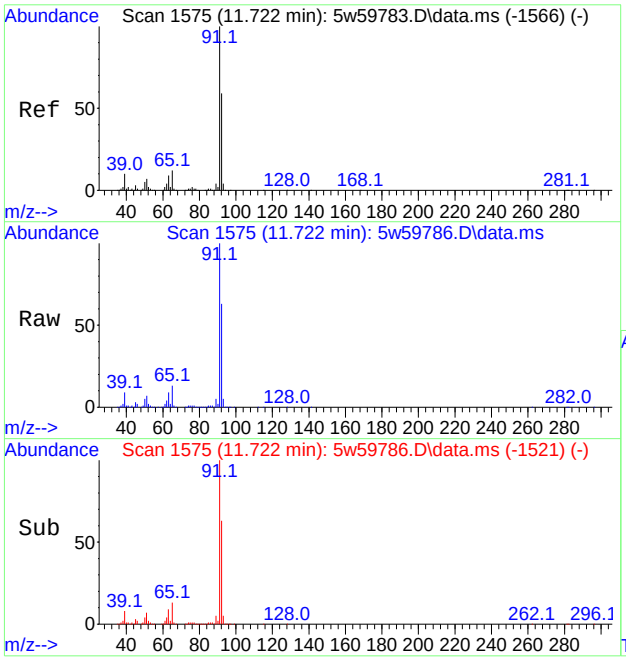


#65
cis-1,3-DICHLOROPROPENE
Concen: 41.46 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5041121

Ion	Ratio	Lower	Upper
75	100		
77	33.3	2.2	62.2
39	54.5	34.3	94.3

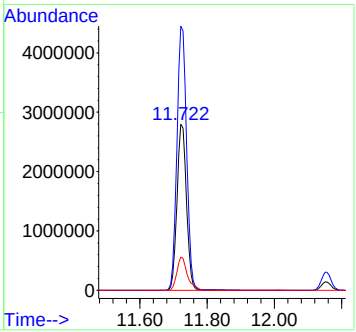


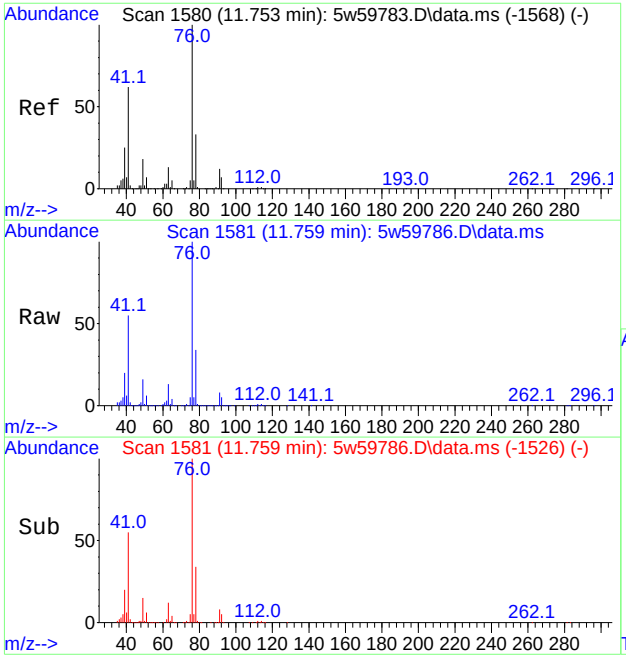


#66
TOLUENE
Concen: 41.16 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 92 Resp: 5480196

Ion	Ratio	Lower	Upper
92	100		
91	163.0	140.1	200.1
65	22.6	0.0	53.1

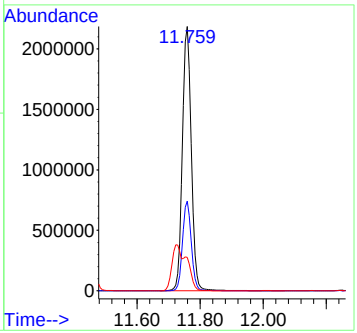


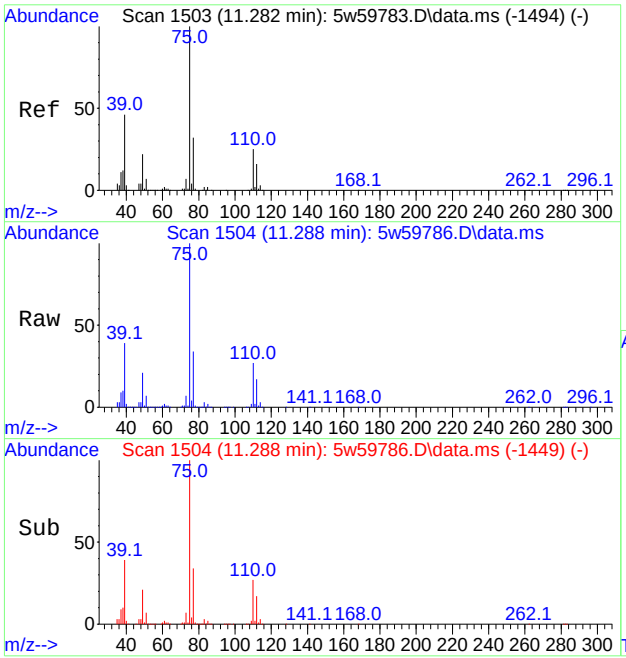


#67
1,3-DICHLOROPROPANE
Concen: 38.74 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 76 Resp: 4271872

Ion	Ratio	Lower	Upper
76	100		
78	33.4	23.2	43.0
63	11.6	7.1	13.1

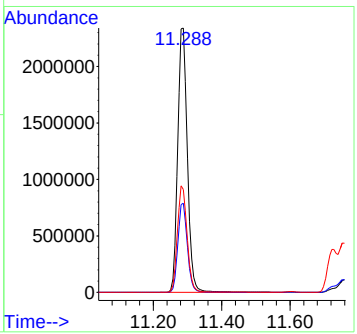


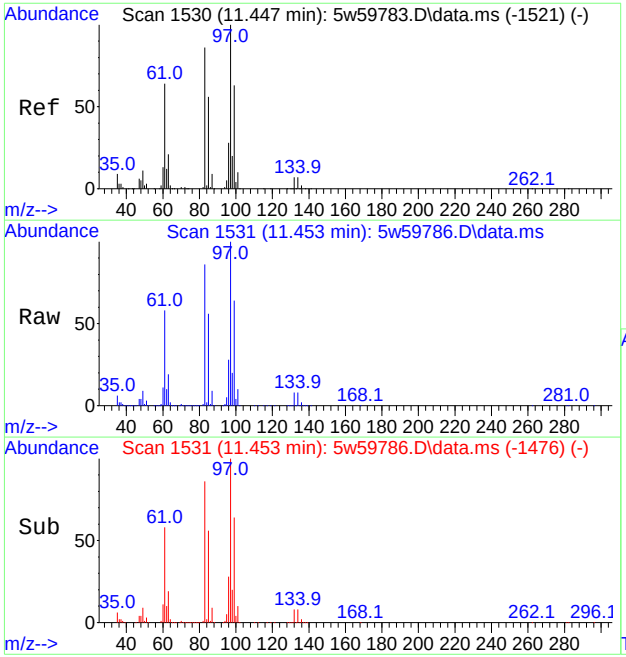


#68
trans-1,3-DICHLOROPROPENE
Concen: 40.93 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 4565890

Ion	Ratio	Lower	Upper
75	100		
77	33.1	1.6	61.6
39	40.9	16.1	76.1

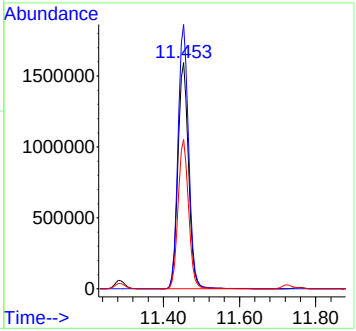


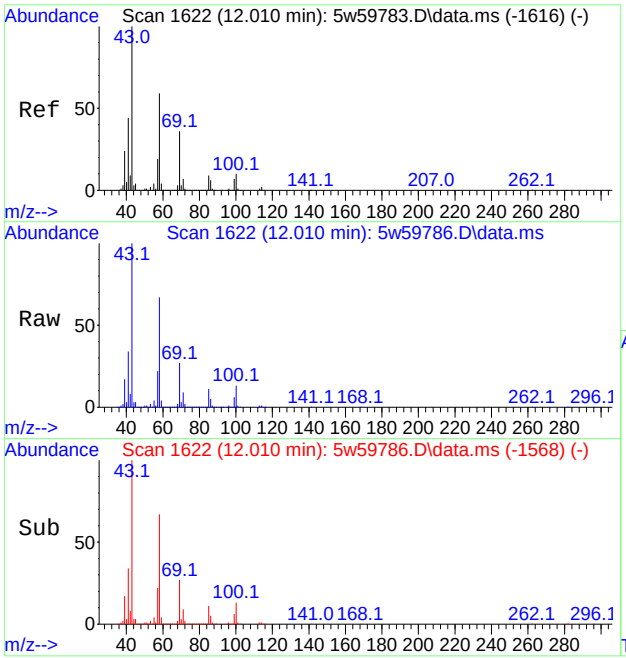


#69
1,1,2-TRICHLOROETHANE
Concen: 42.06 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 3077034

Ion	Ratio	Lower	Upper
83	100		
97	116.8	86.3	146.3
85	65.4	35.3	95.3

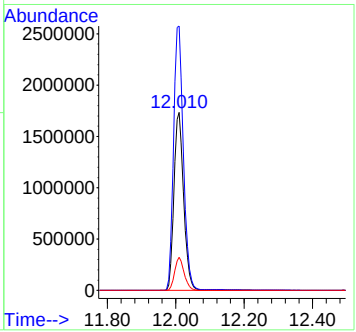


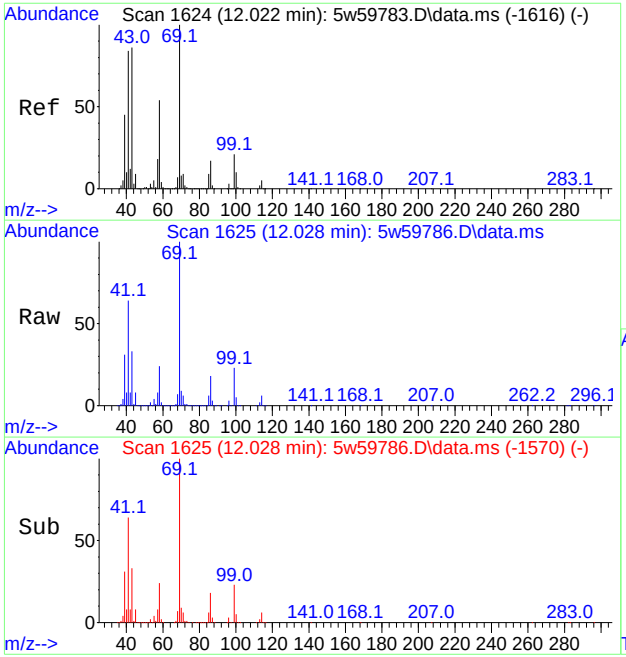


#71
2-HEXANONE
Concen: 32.66 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 58 Resp: 3450029

Ion	Ratio	Lower	Upper
58	100		
43	150.6	137.2	197.2
100	18.4	0.0	46.9

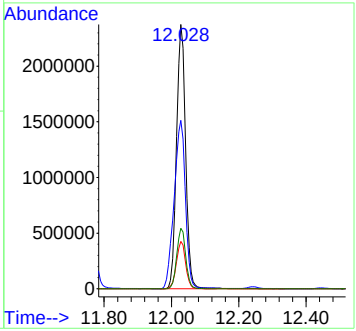


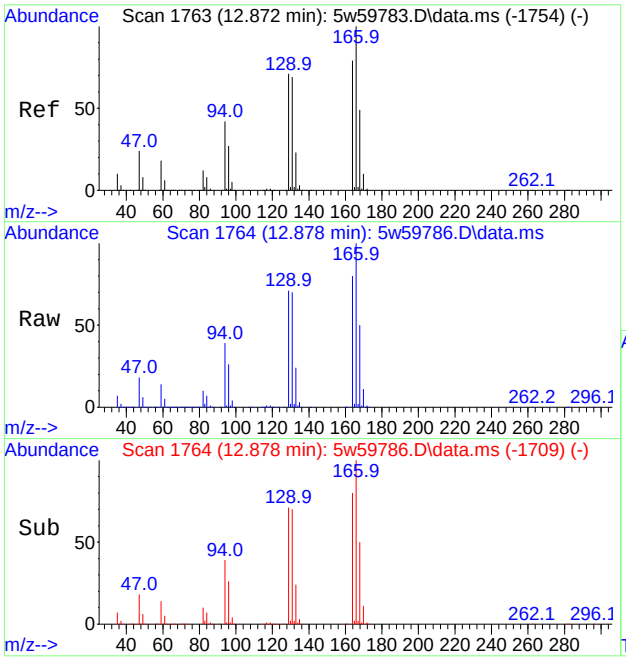


#72
ETHYL METHACRYLATE
Concen: 33.31 PPBV
RT: 12.028 min Scan# 1625
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 69 Resp: 4427593

Ion	Ratio	Lower	Upper
69	100		
41	79.2	64.0	119.0
86	18.2	12.0	22.4
99	22.8	15.0	27.8

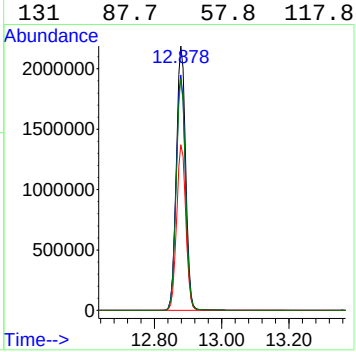


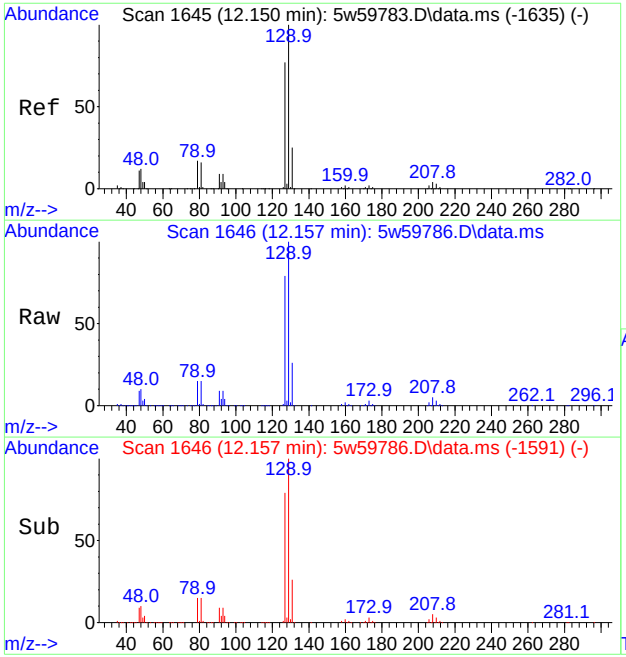


#73
TETRACHLOROETHYLENE
Concen: 31.36 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:164 Resp: 4203511

Ion	Ratio	Lower	Upper
164	100		
129	89.3	59.7	119.7
168	62.4	32.2	92.2
131	87.7	57.8	117.8

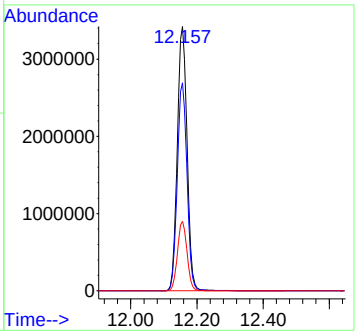


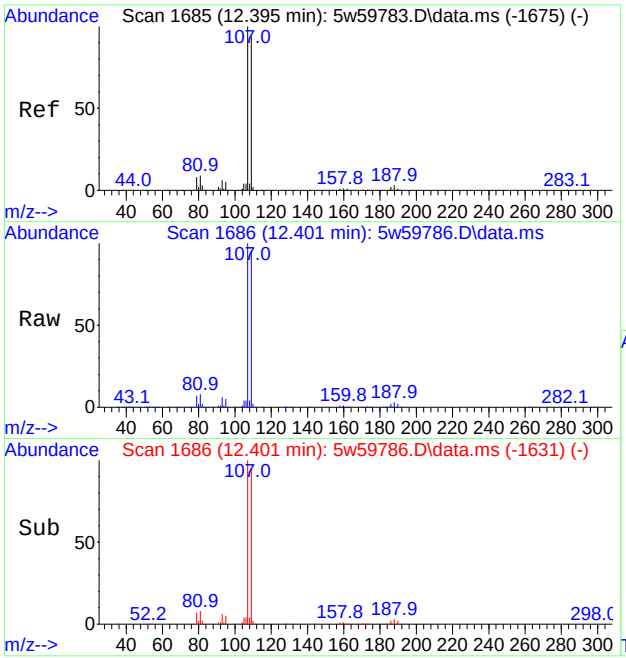


#74
DIBROMOCHLOROMETHANE
Concen: 30.46 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:129 Resp: 7029117

Ion	Ratio	Lower	Upper
129	100		
127	78.5	47.1	107.1
131	25.8	0.0	54.5

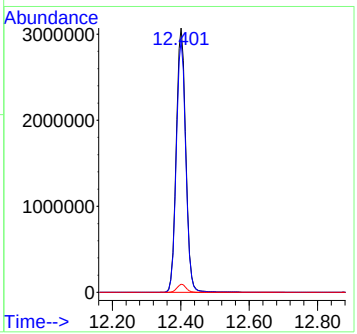


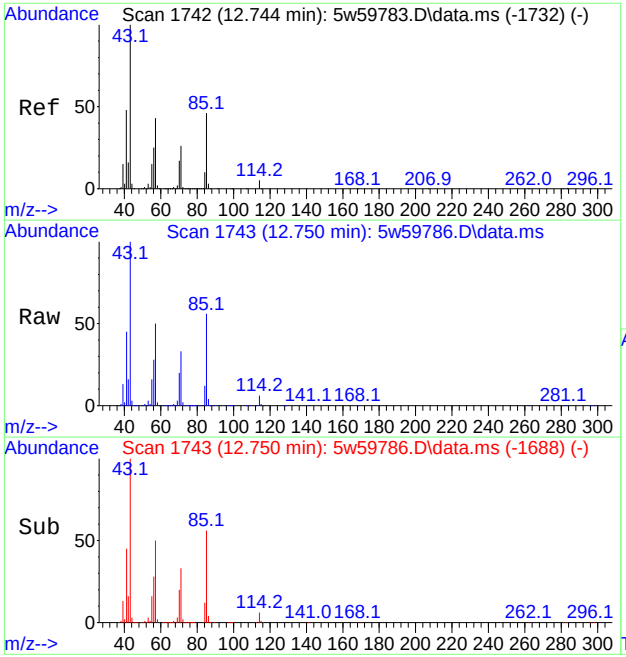


#75
1,2-DIBROMOETHANE
Concen: 33.98 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:107 Resp: 5931699

Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	124.8
188	3.0	0.0	32.8

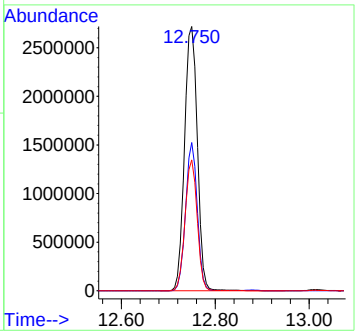


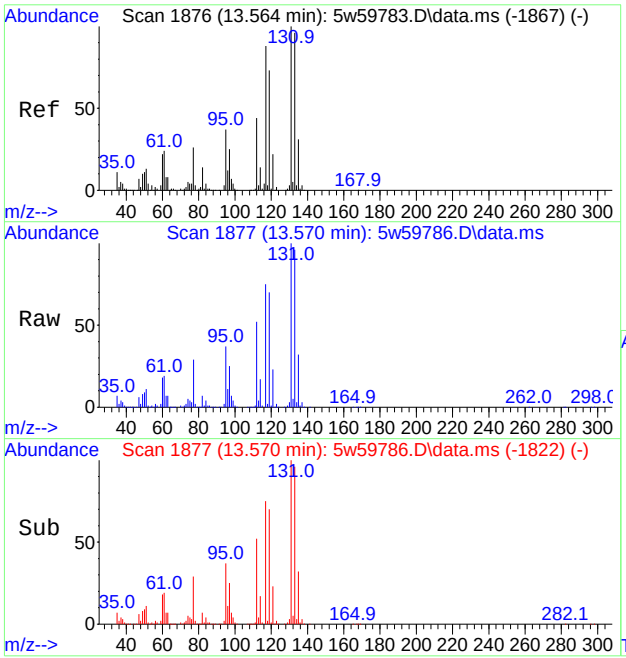


#76
OCTANE
Concen: 28.88 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 5161401

Ion	Ratio	Lower	Upper
43	100		
85	51.2	14.6	74.6
57	46.9	13.7	73.7

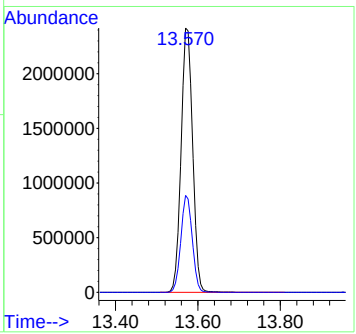


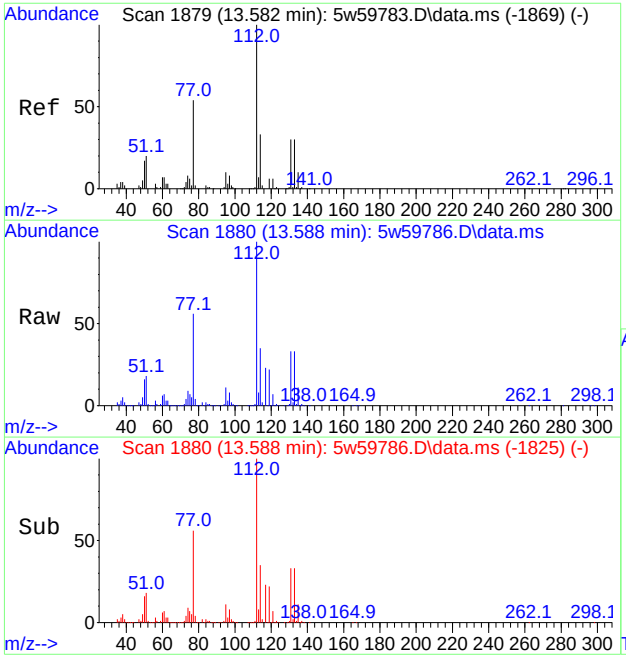


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 31.92 PPBV
RT: 13.570 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:131 Resp: 4713028

Ion	Ratio	Lower	Upper
131	100		
95	36.1	6.5	66.5

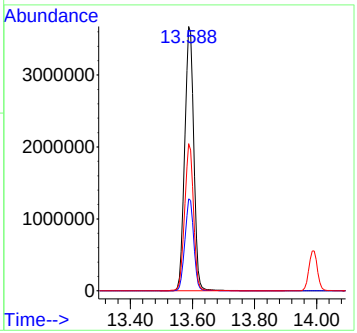


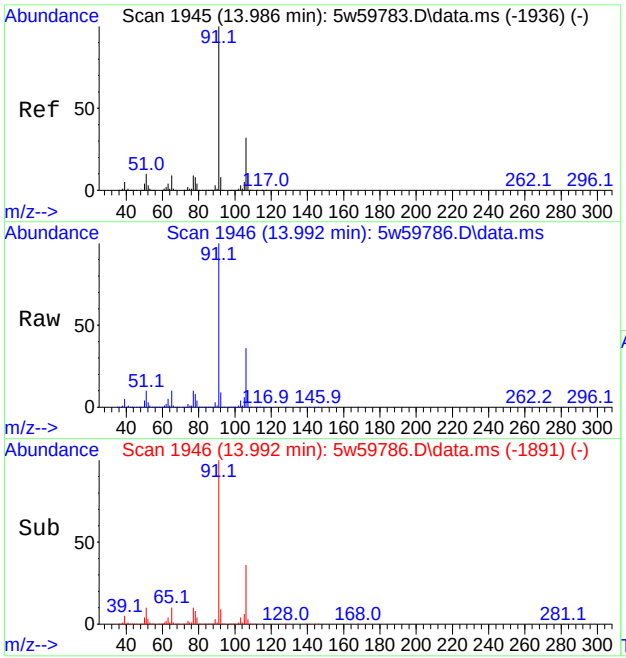


#78
CHLOROBENZENE
Concen: 30.47 PPBV
RT: 13.588 min Scan# 1880
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:112 Resp: 7439915

Ion	Ratio	Lower	Upper
112	100		
114	34.0	2.6	62.6
77	54.9	25.4	85.4

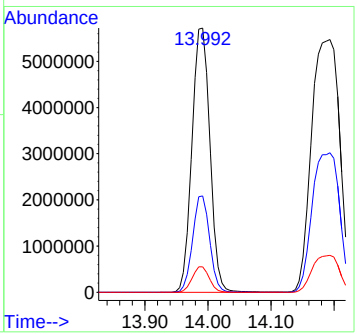


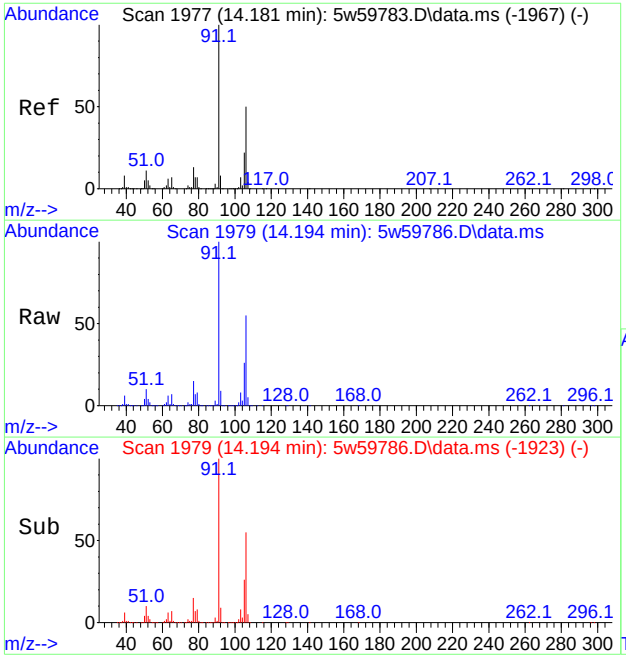


#79
ETHYLBENZENE
Concen: 31.54 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp:11379916

Ion	Ratio	Lower	Upper
91	100		
106	34.6	1.3	61.3
77	9.2	0.0	38.6

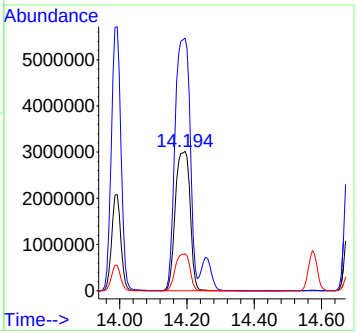


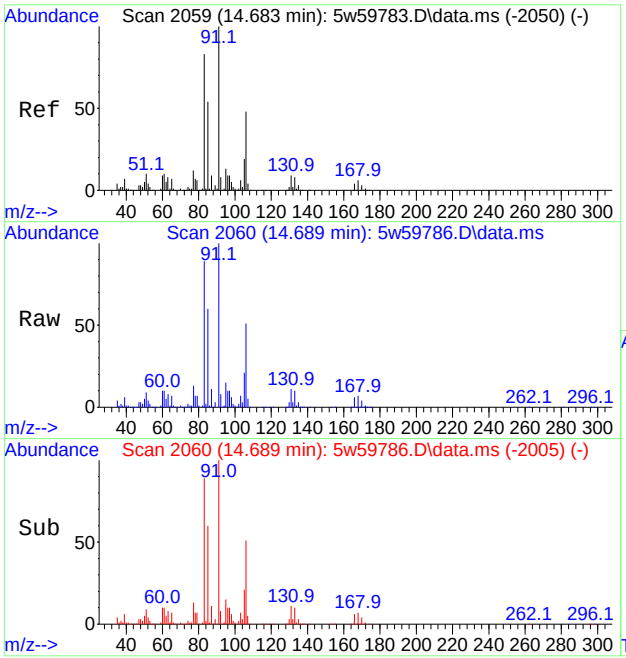


#80
m,p-XYLENE
Concen: 65.12 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 9117454

Ion	Ratio	Lower	Upper
106	100		
91	181.2	171.0	231.0
77	26.6	0.0	56.7

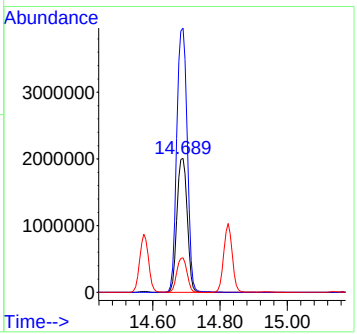


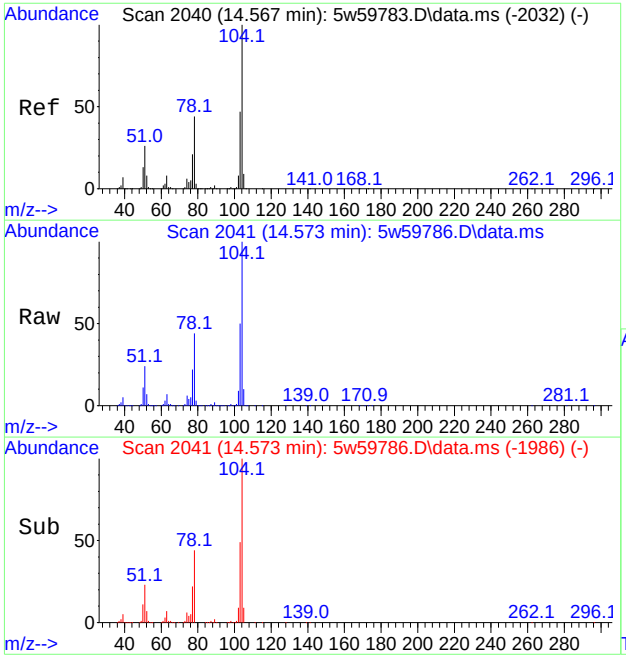


#81
o-XYLENE
Concen: 32.29 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:106 Resp: 4240336

Ion	Ratio	Lower	Upper
106	100		
91	200.7	181.6	241.6
77	25.7	0.0	56.6

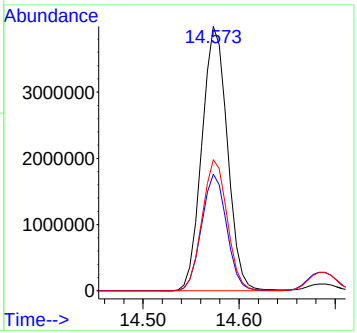


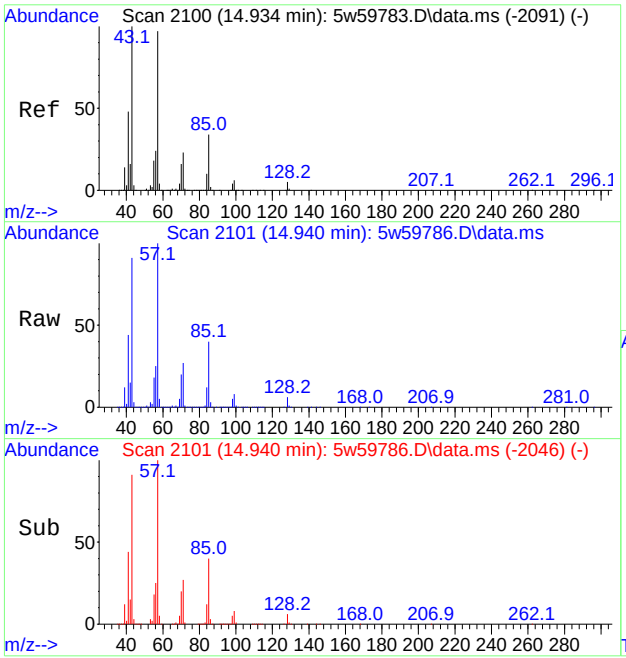


#82
STYRENE
Concen: 37.26 PPBV
RT: 14.573 min Scan# 2041
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:104 Resp: 7405410

Ion	Ratio	Lower	Upper
104	100		
78	43.4	13.3	73.3
103	48.7	17.2	77.2

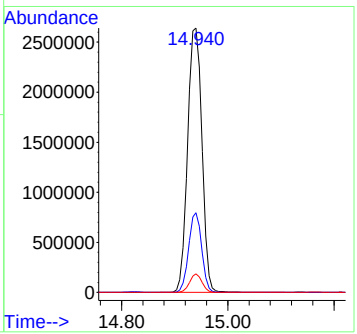


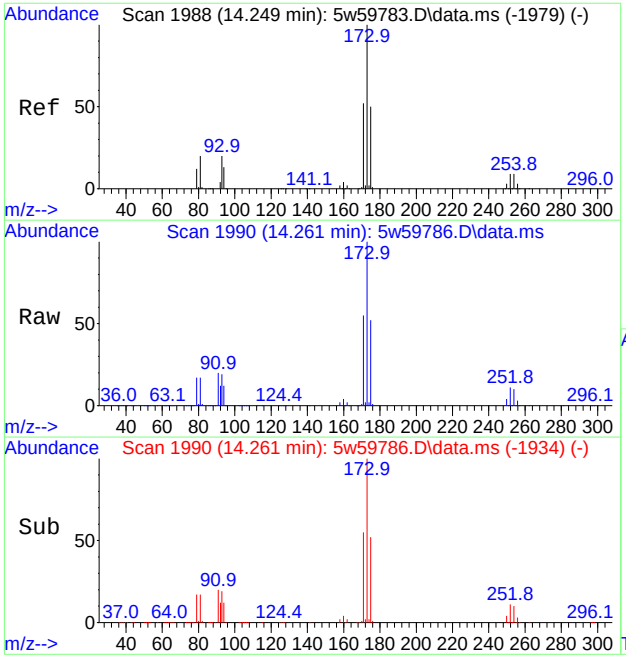


#83
NONANE
Concen: 27.57 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 43 Resp: 4961142

Ion	Ratio	Lower	Upper
43	100		
71	27.5	0.0	52.7
128	6.1	0.0	34.7

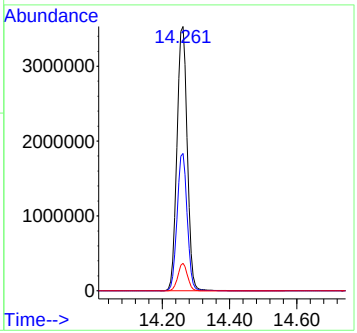


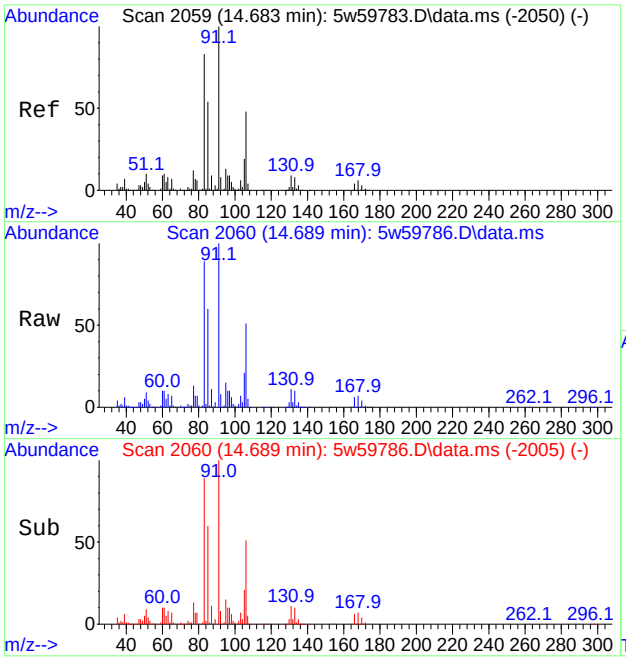


#84
BROMOFORM
Concen: 32.02 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:173 Resp: 7504388

Ion	Ratio	Lower	Upper
173	100		
175	51.0	19.6	79.6
254	9.8	0.0	39.0

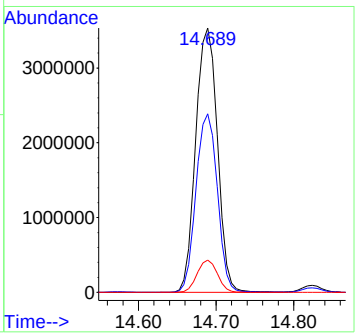


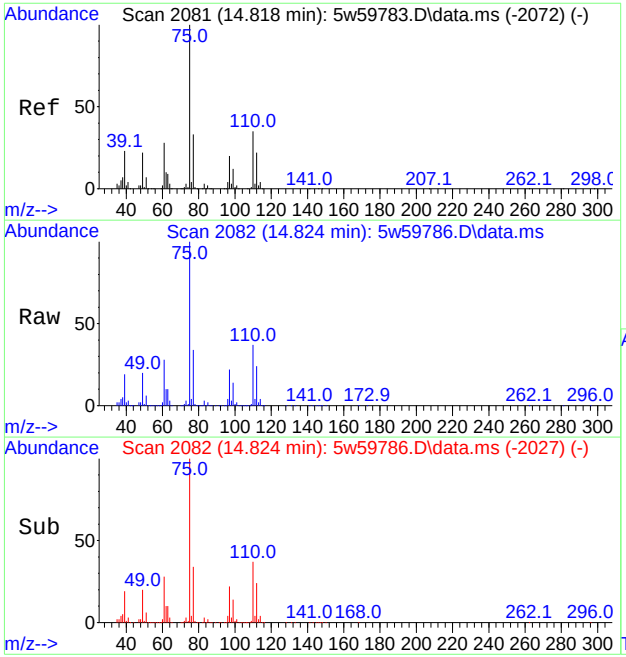


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 29.32 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 83 Resp: 6869258

Ion	Ratio	Lower	Upper
83	100		
85	66.6	35.2	95.2
131	11.5	0.0	40.3

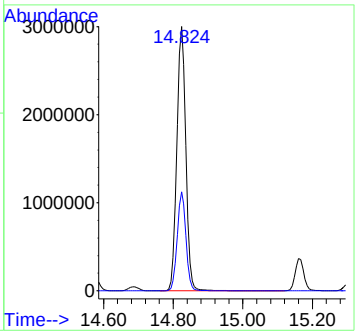


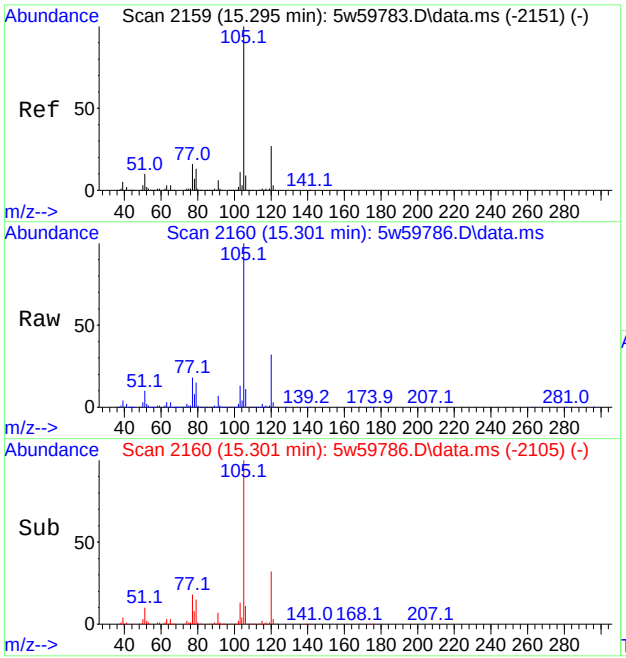


#87
1,2,3-TRICHLOROPROPANE
Concen: 29.33 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 75 Resp: 5400423

Ion	Ratio	Lower	Upper
75	100		
110	36.5	4.4	64.4

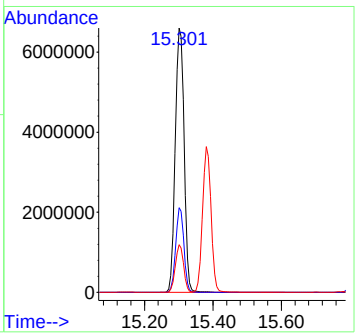


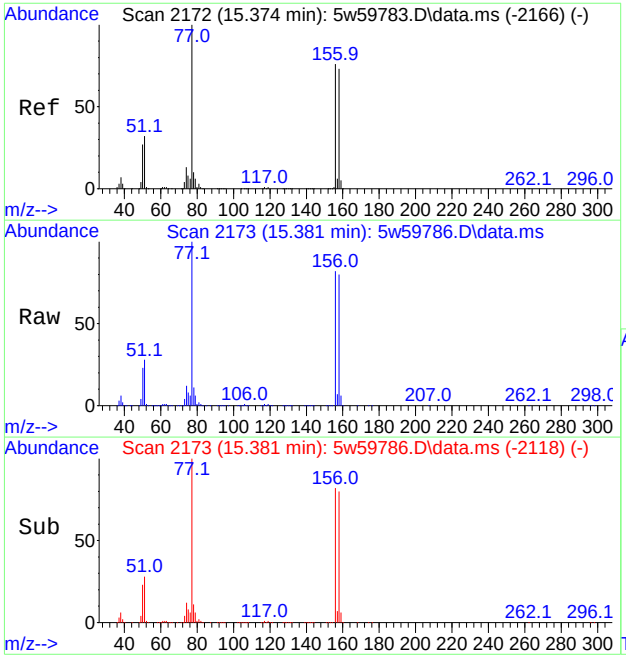


#88
ISOPROPYLBENZENE
Concen: 28.72 PPBV
RT: 15.301 min Scan# 2160
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11977220

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	56.0
77	16.8	0.0	45.6

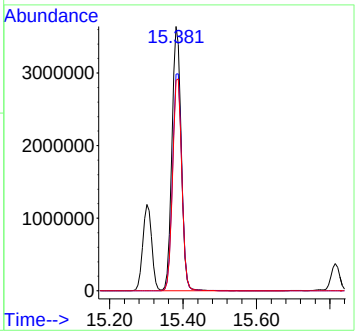


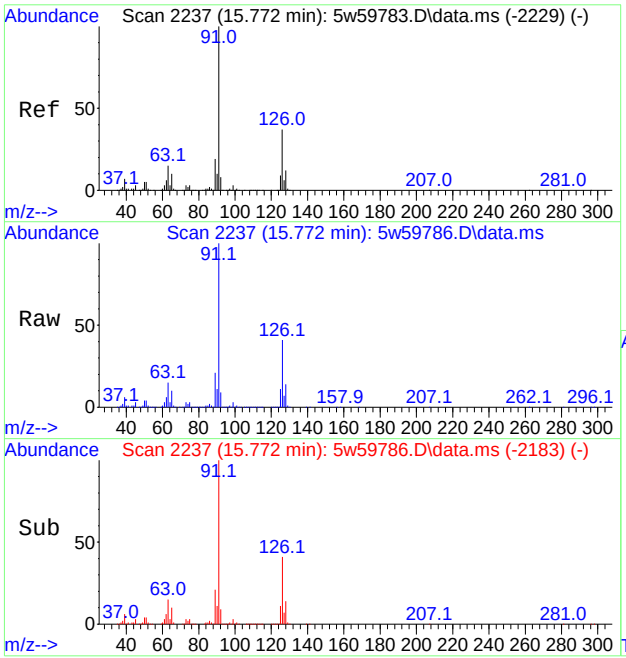


#89
BROMOBENZENE
Concen: 29.55 PPBV
RT: 15.381 min Scan# 2173
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 77 Resp: 6360723

Ion	Ratio	Lower	Upper
77	100		
156	82.5	54.9	101.9
158	80.2	53.5	99.3

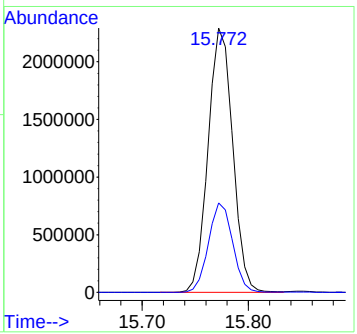


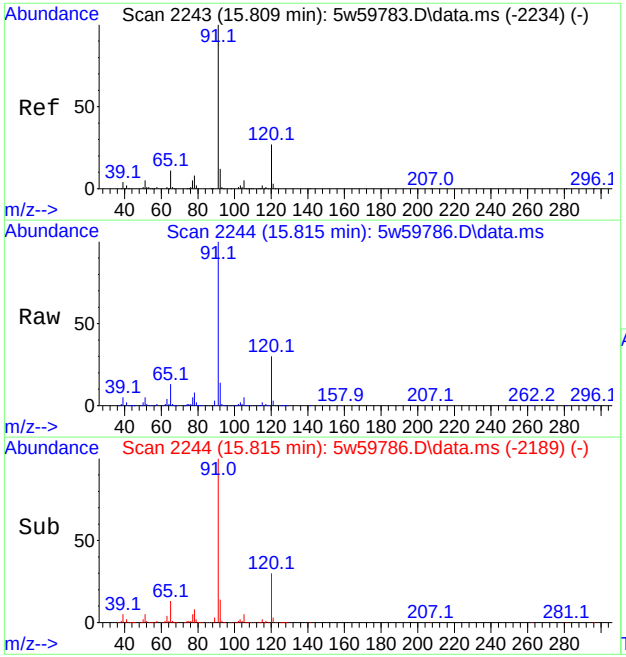


#90
2-CHLOROTOLUENE
Concen: 32.56 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:126 Resp: 3685448

Ion	Ratio	Lower	Upper
126	100		
128	33.2	2.7	62.7

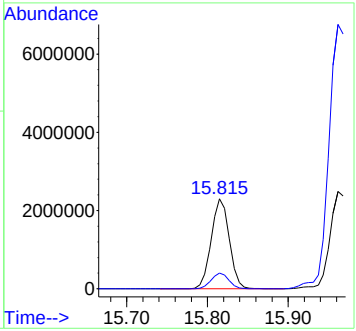


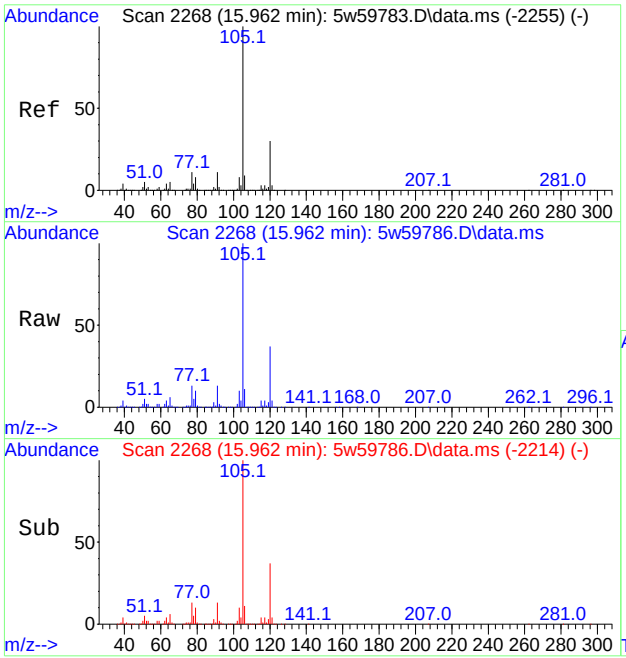


#91
n-PROPYLBENZENE
Concen: 31.94 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:120 Resp: 3584454

Ion	Ratio	Lower	Upper
120	100		
105	17.1	0.0	47.0

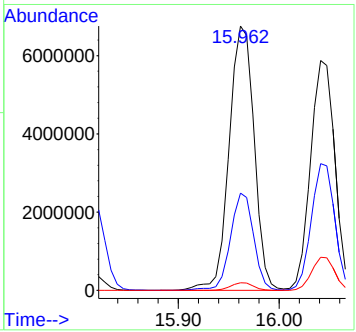


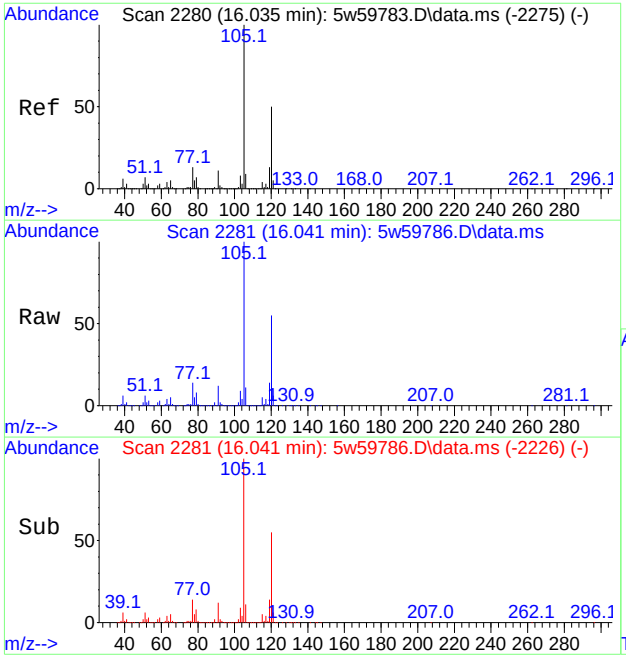


#92
4-ETHYLTOLUENE
Concen: 30.19 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp:11670979

Ion	Ratio	Lower	Upper
105	100		
120	34.0	0.0	59.9
119	2.7	0.0	32.3

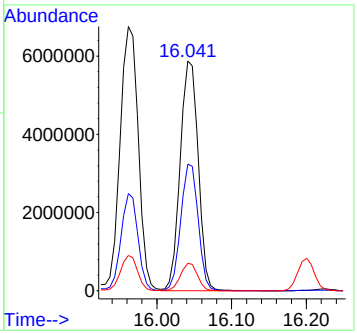


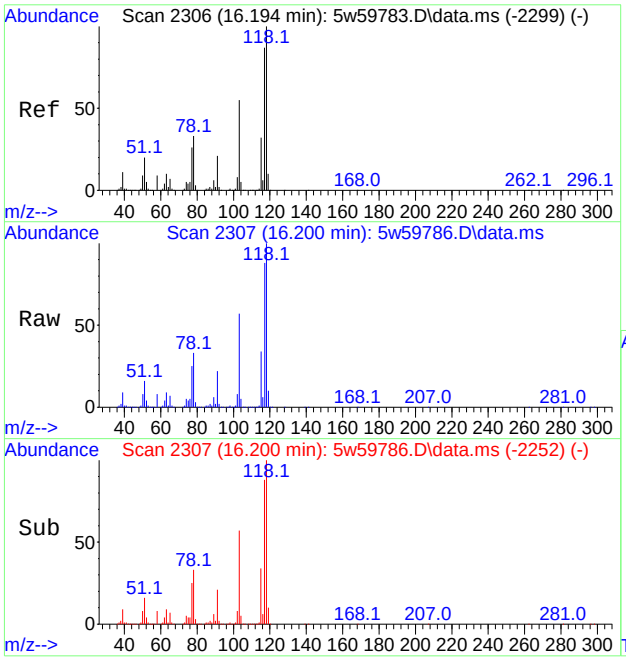


#93
1,3,5-TRIMETHYLBENZENE
Concen: 28.34 PPBV
RT: 16.041 min Scan# 2281
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9865714

Ion	Ratio	Lower	Upper
105	100		
120	53.1	19.4	79.4
91	11.4	0.0	40.8

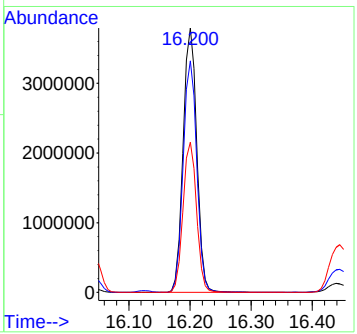


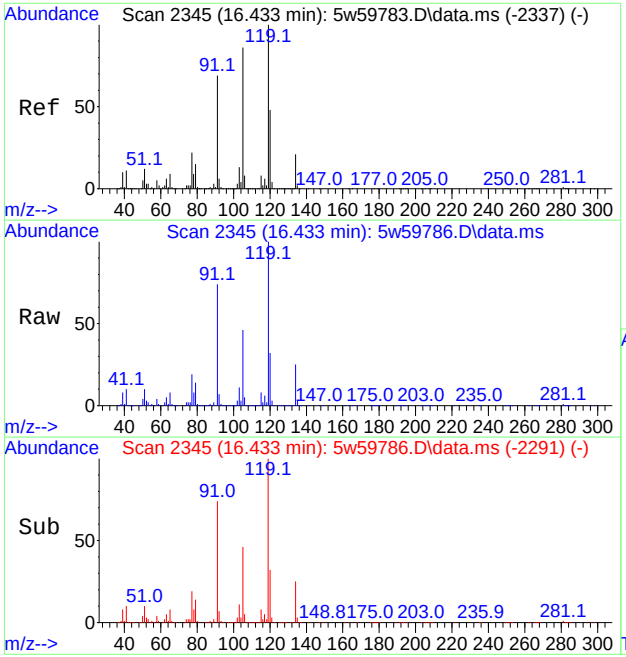


#94
ALPHA-METHYLSTYRENE
Concen: 33.71 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:118 Resp: 5900787

Ion	Ratio	Lower	Upper
118	100		
117	87.6	60.9	113.1
103	56.3	38.6	71.8

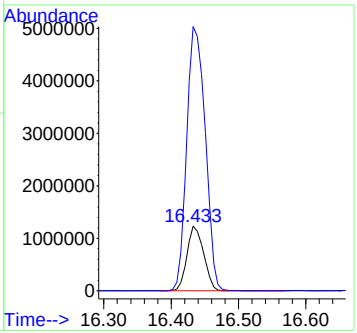


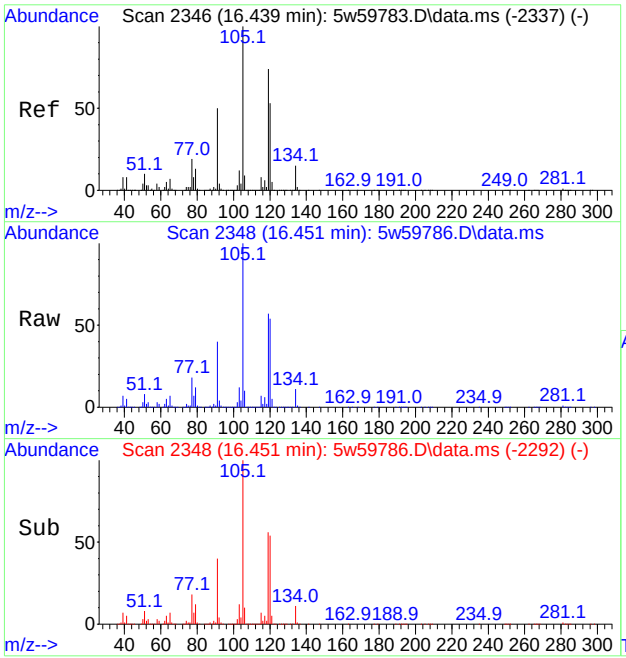


#95
tert-BUTYLBENZENE
Concen: 28.46 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2122779

Ion	Ratio	Lower	Upper
134	100		
119	455.7	459.3	519.3#

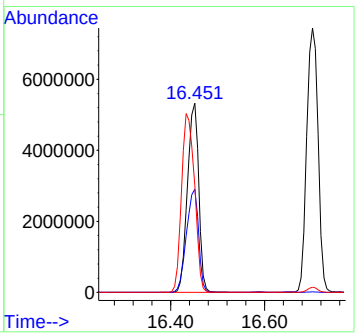


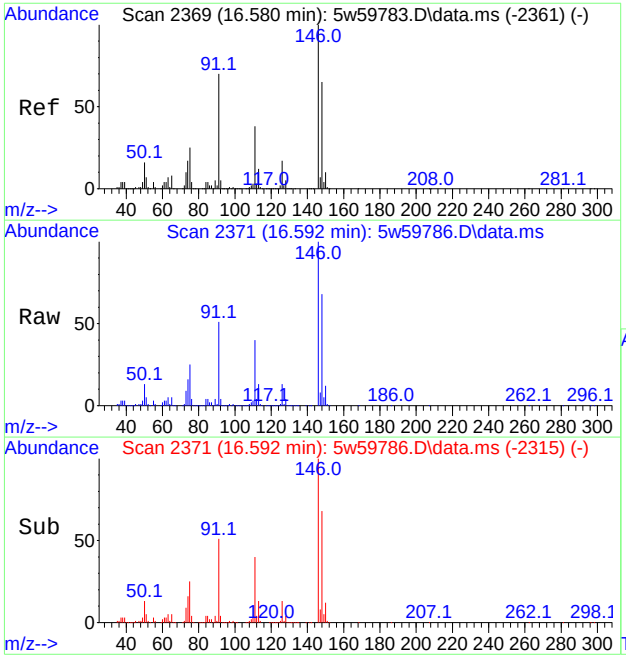


#96
1,2,4-TRIMETHYLBENZENE
Concen: 26.06 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 8886934

Ion	Ratio	Lower	Upper
105	100		
120	58.6	25.7	85.7
119	108.9	75.7	135.7

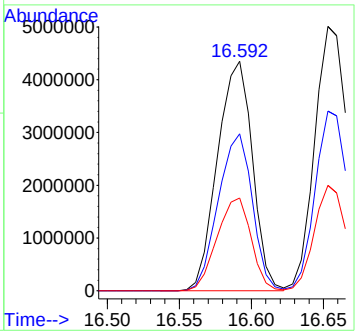


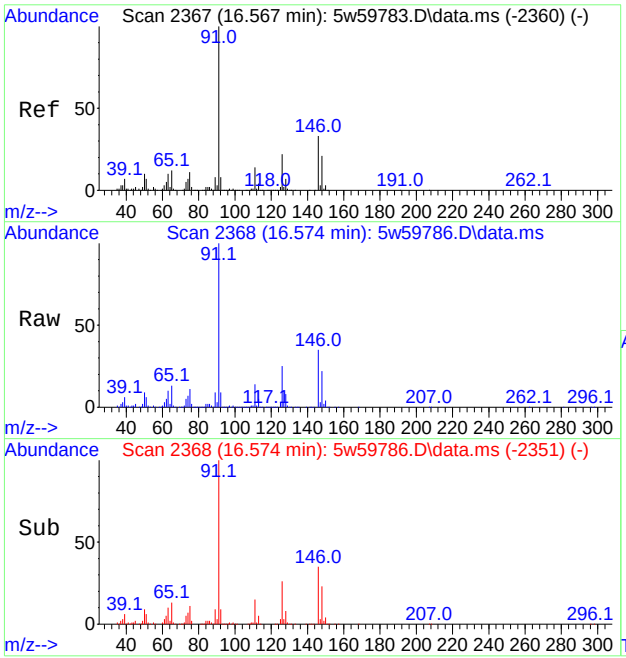


#97
m-DICHLOROBENZENE
Concen: 27.06 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7359121

Ion	Ratio	Lower	Upper
146	100		
148	66.5	34.8	94.8
111	39.4	8.2	68.2

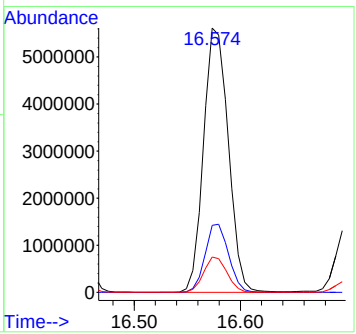


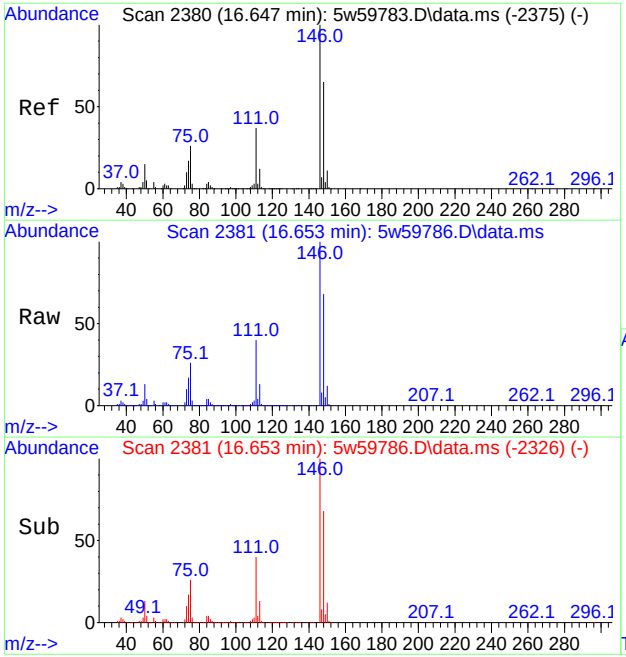


#98
BENZYL CHLORIDE
Concen: 28.12 PPBV
RT: 16.574 min Scan# 2368
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion: 91 Resp: 9095992

Ion	Ratio	Lower	Upper
91	100		
126	24.6	0.0	51.7
65	12.7	0.0	42.2

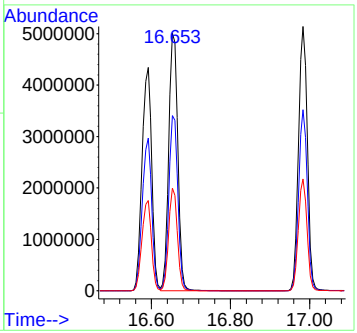


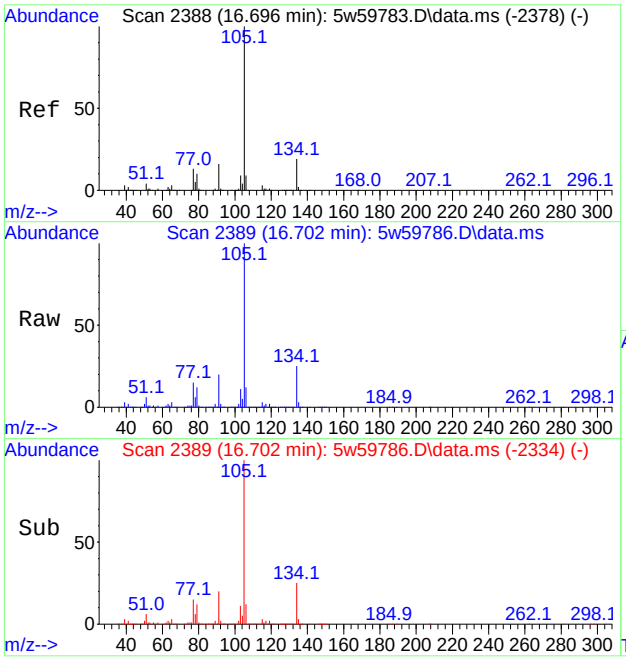


#99
p-DICHLOROBENZENE
Concen: 28.96 PPBV
RT: 16.653 min Scan# 2381
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7993903

Ion	Ratio	Lower	Upper
146	100		
148	67.0	34.6	94.6
111	38.3	6.7	66.7

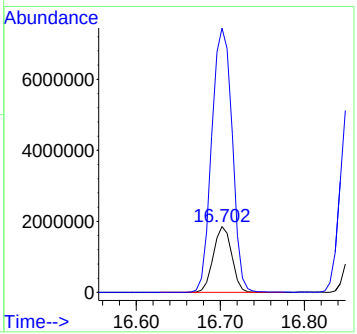


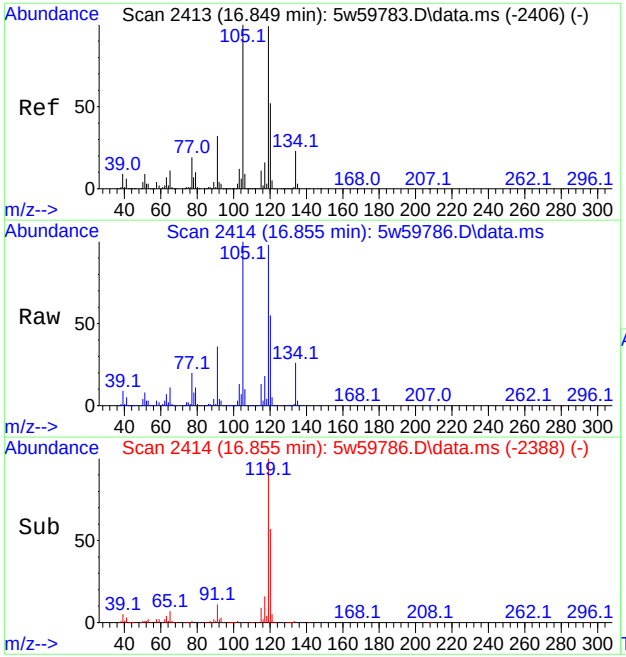


#100
sec-BUTYLBENZENE
Concen: 30.67 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2827725

Ion	Ratio	Lower	Upper
134	100		
105	445.7	502.5	562.5#

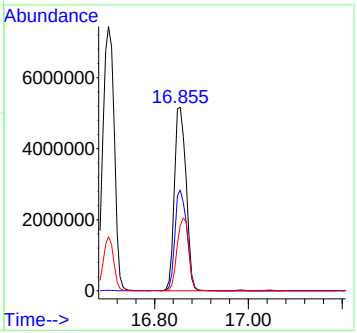


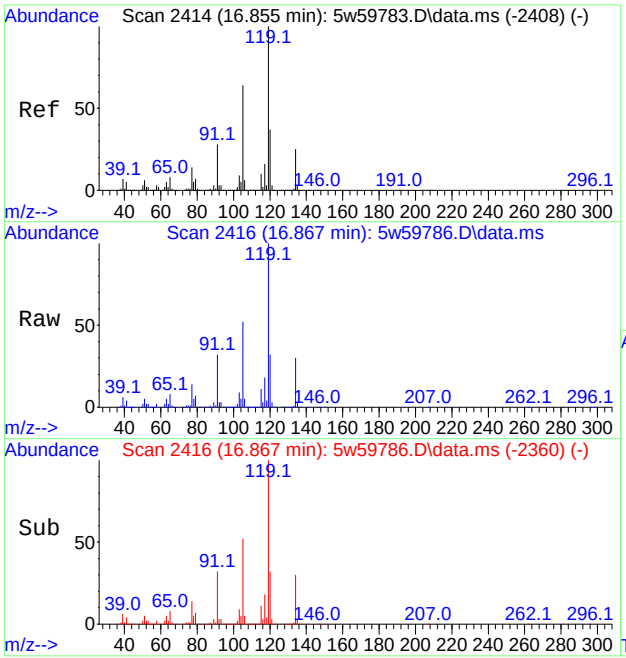


#101
1,2,3-TRIMETHYLBENZENE
Concen: 24.94 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:105 Resp: 9024748

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	39.4	7.4	67.4

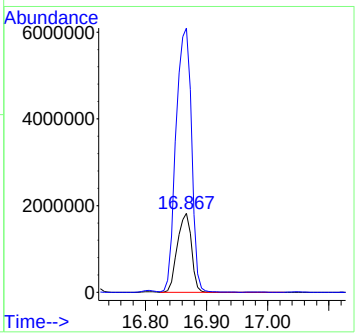


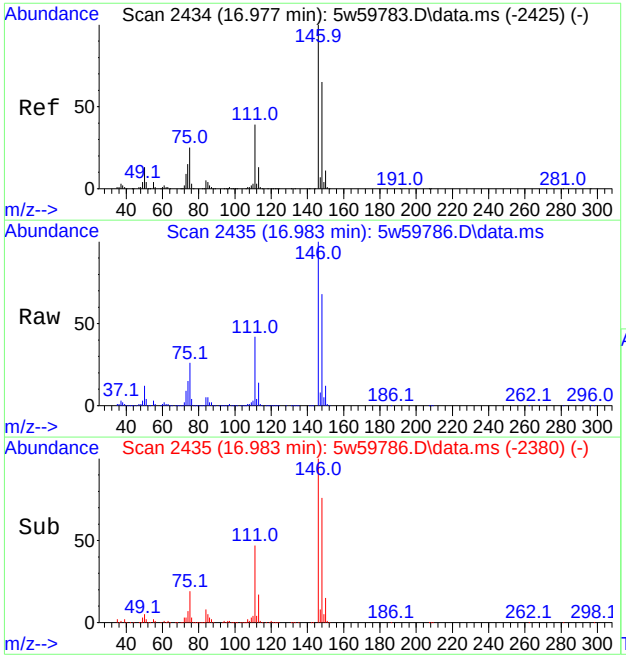


#102
p-ISOPROPYLTOLUENE
Concen: 27.10 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 2924462

Ion	Ratio	Lower	Upper
134	100		
119	367.4	377.7	437.7#

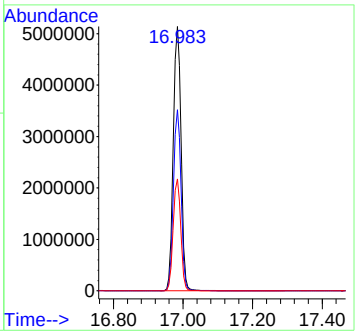


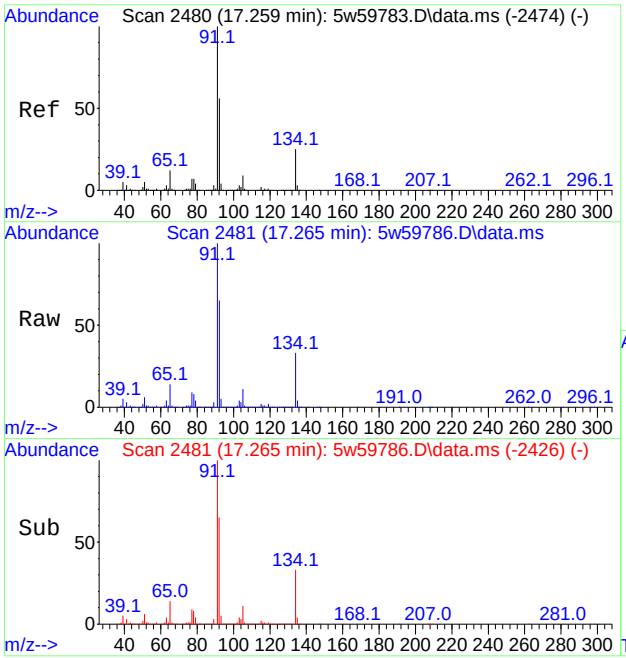


#103
o-DICHLOROBENZENE
Concen: 29.61 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:146 Resp: 7985671

Ion	Ratio	Lower	Upper
146	100		
148	67.1	34.3	94.3
111	41.2	9.2	69.2

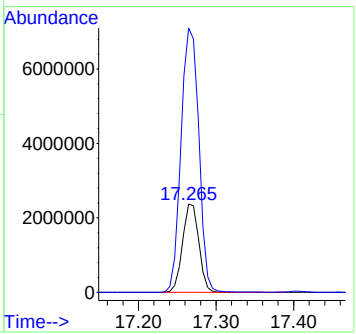


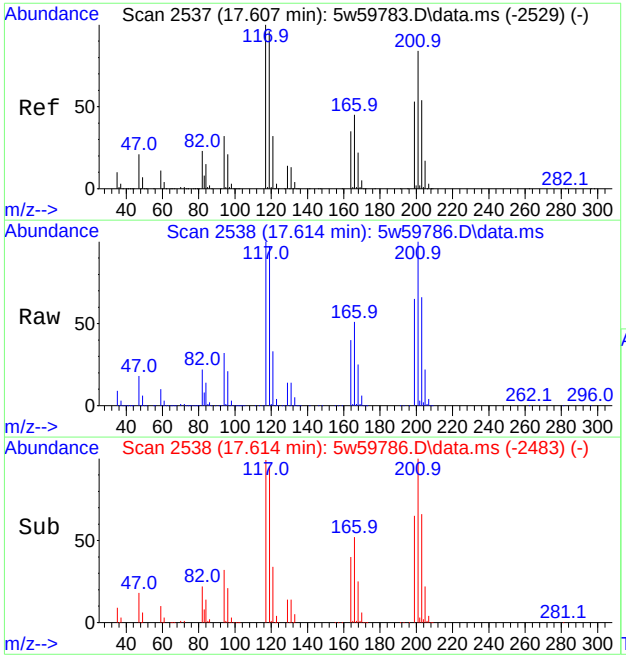


#104
n-BUTYLBENZENE
Concen: 34.55 PPBV
RT: 17.265 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:134 Resp: 3481921

Ion	Ratio	Lower	Upper
134	100		
91	327.2	363.1	423.1#

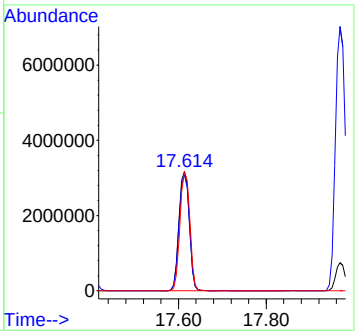


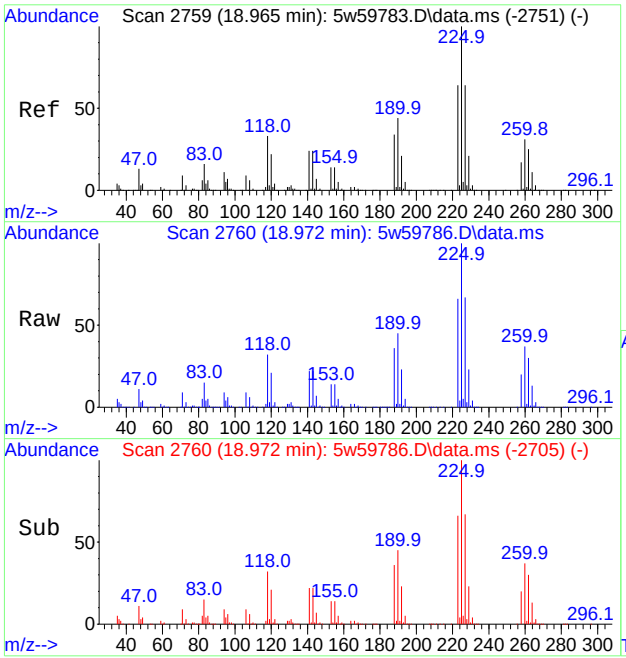


#105
HEXACHLOROETHANE
Concen: 28.92 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:117 Resp: 5208368

Ion	Ratio	Lower	Upper
117	100		
119	96.6	67.2	124.8
201	95.1	61.1	113.5

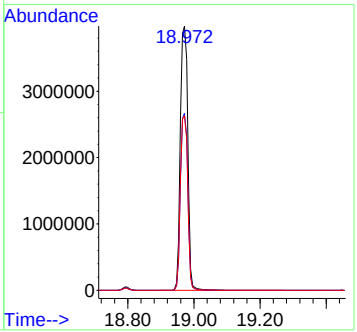


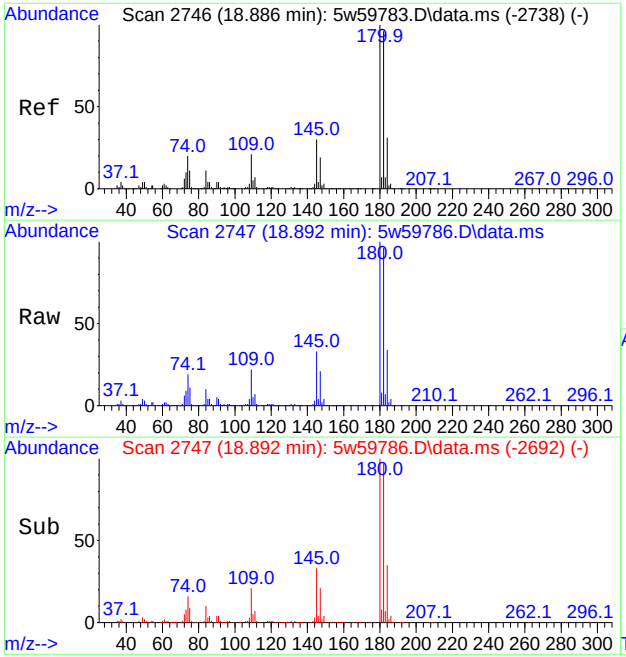


#106
HEXACHLOROBUTADIENE
Concen: 22.78 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:225 Resp: 6236008

Ion	Ratio	Lower	Upper
225	100		
227	66.2	34.2	94.2
223	65.6	33.3	93.3

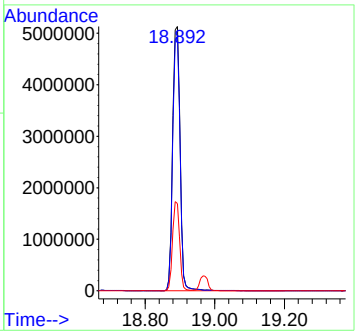


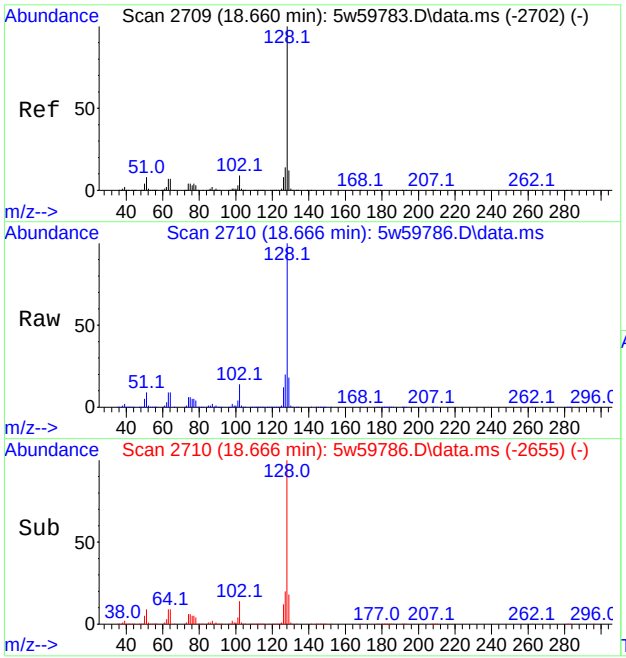


#107
1,2,4-TRICHLOROBENZENE
Concen: 32.01 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:180 Resp: 7600427

Ion	Ratio	Lower	Upper
180	100		
182	95.8	65.4	125.4
145	32.0	0.0	59.4

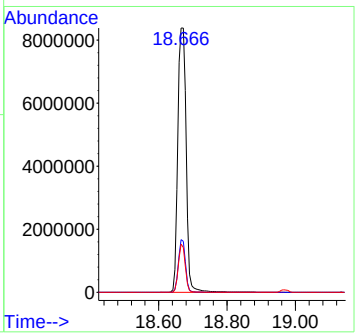


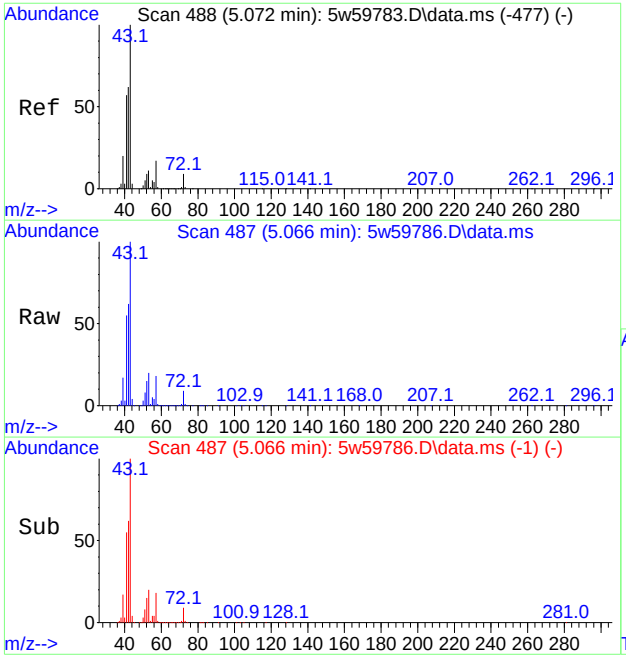


#108
NAPHTHALENE
Concen: 26.02 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:128 Resp:14205927

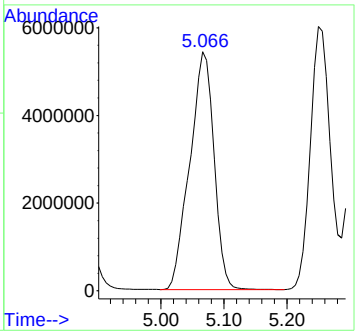
Ion	Ratio	Lower	Upper
128	100		
127	16.9	0.0	43.3
129	15.1	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 31.68 PPBV
RT: 5.066 min Scan# 487
Delta R.T. -0.006 min
Lab File: 5w59786.D
Acq: 7 Nov 2025 9:38 am

Tgt Ion:TIC Resp:14466620



Manual Integration Approval Summary

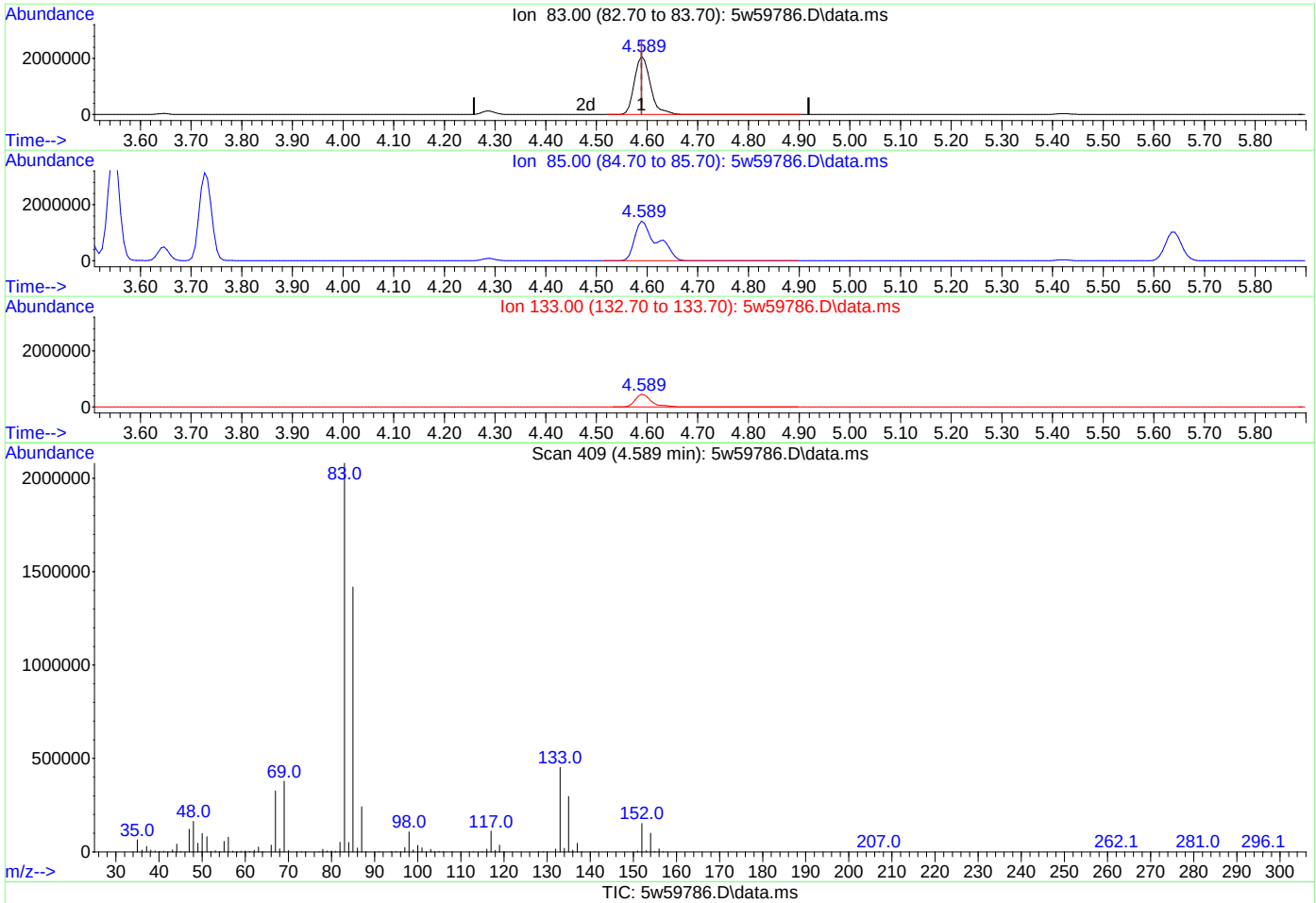
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59786.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 09:38 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.59	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV

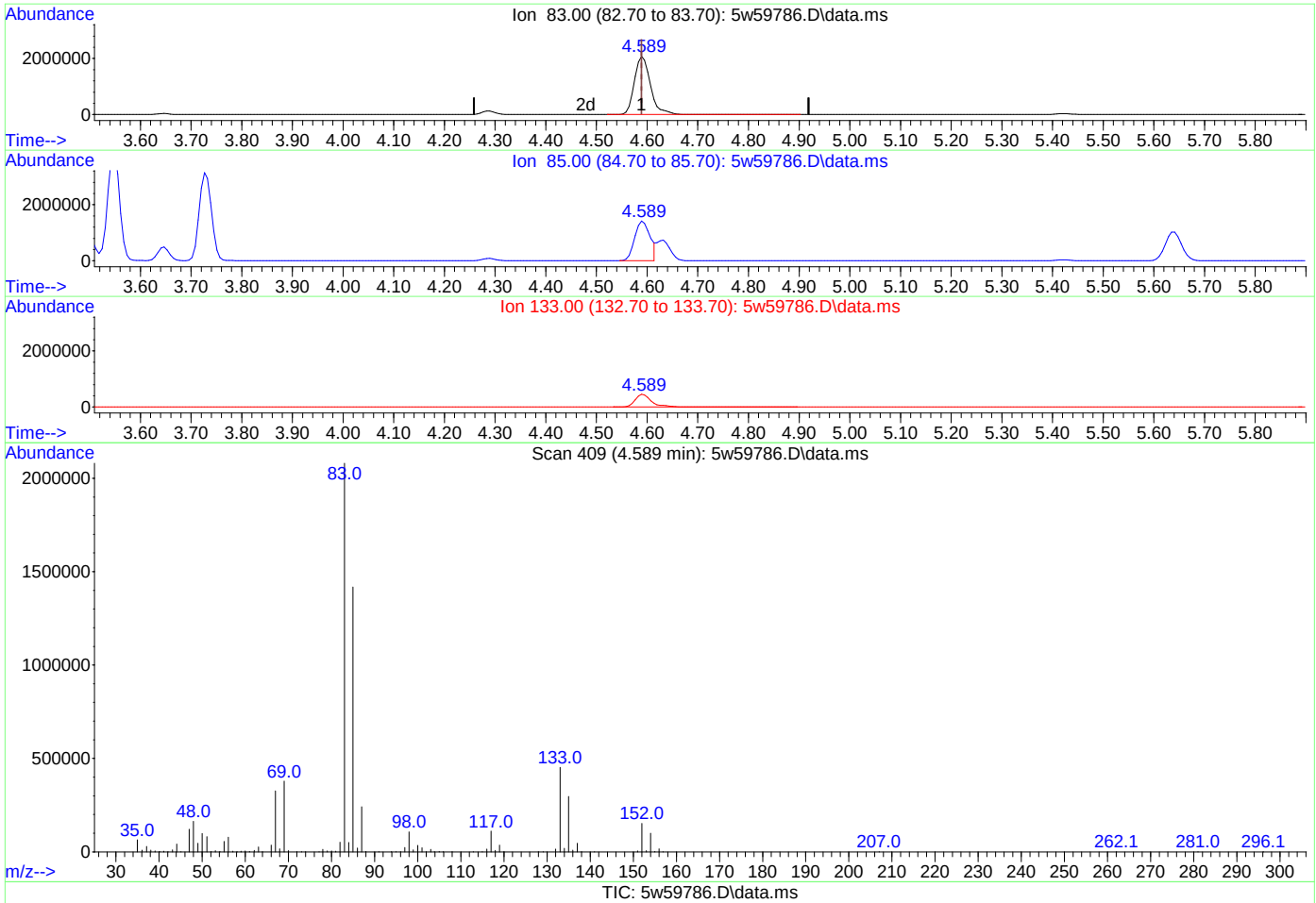
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	95.64#
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(19) FREON 123

4.589min (-0.000) 27.57PPBV m

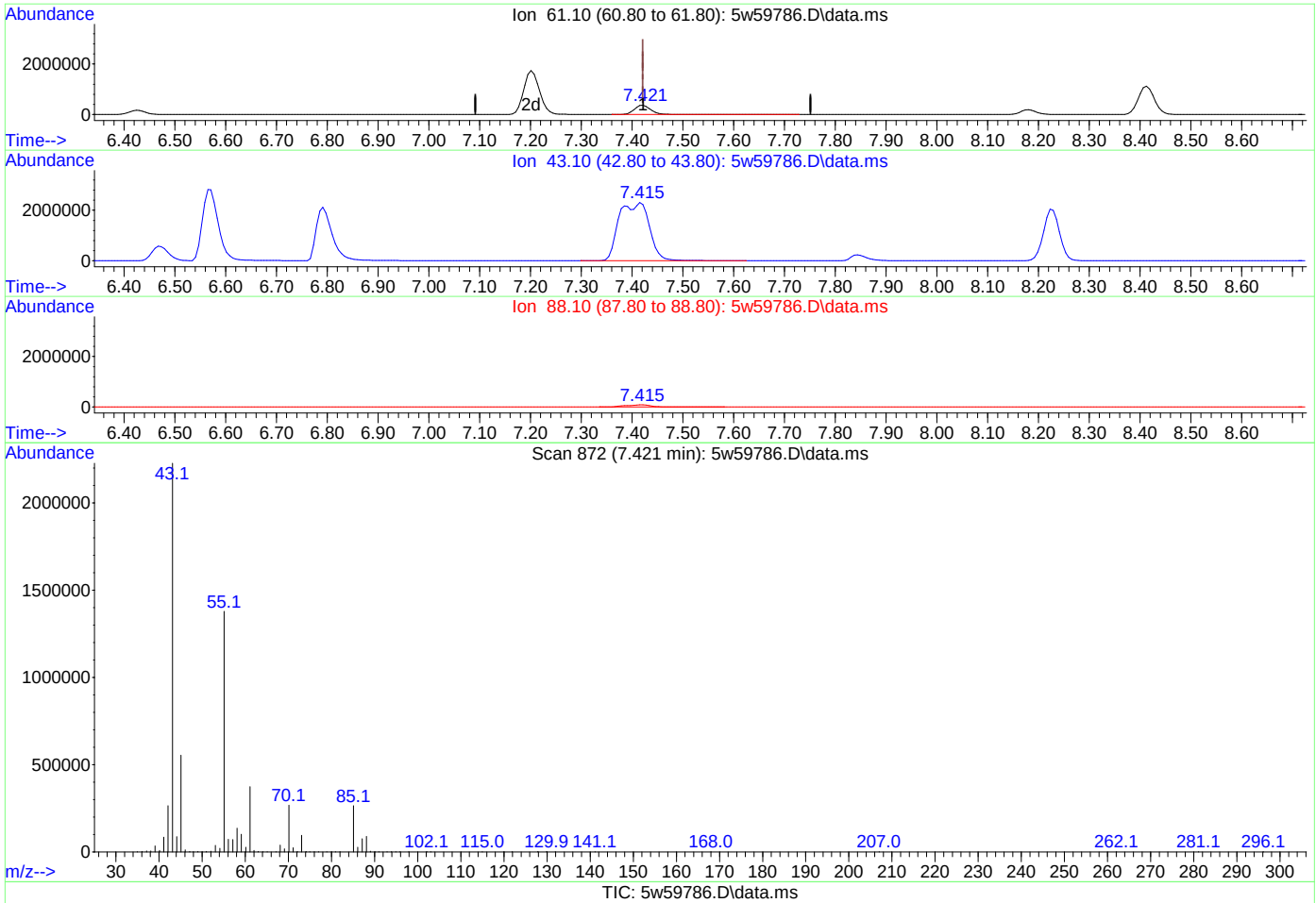
response 4570353

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	65.67
133.00	20.70	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV

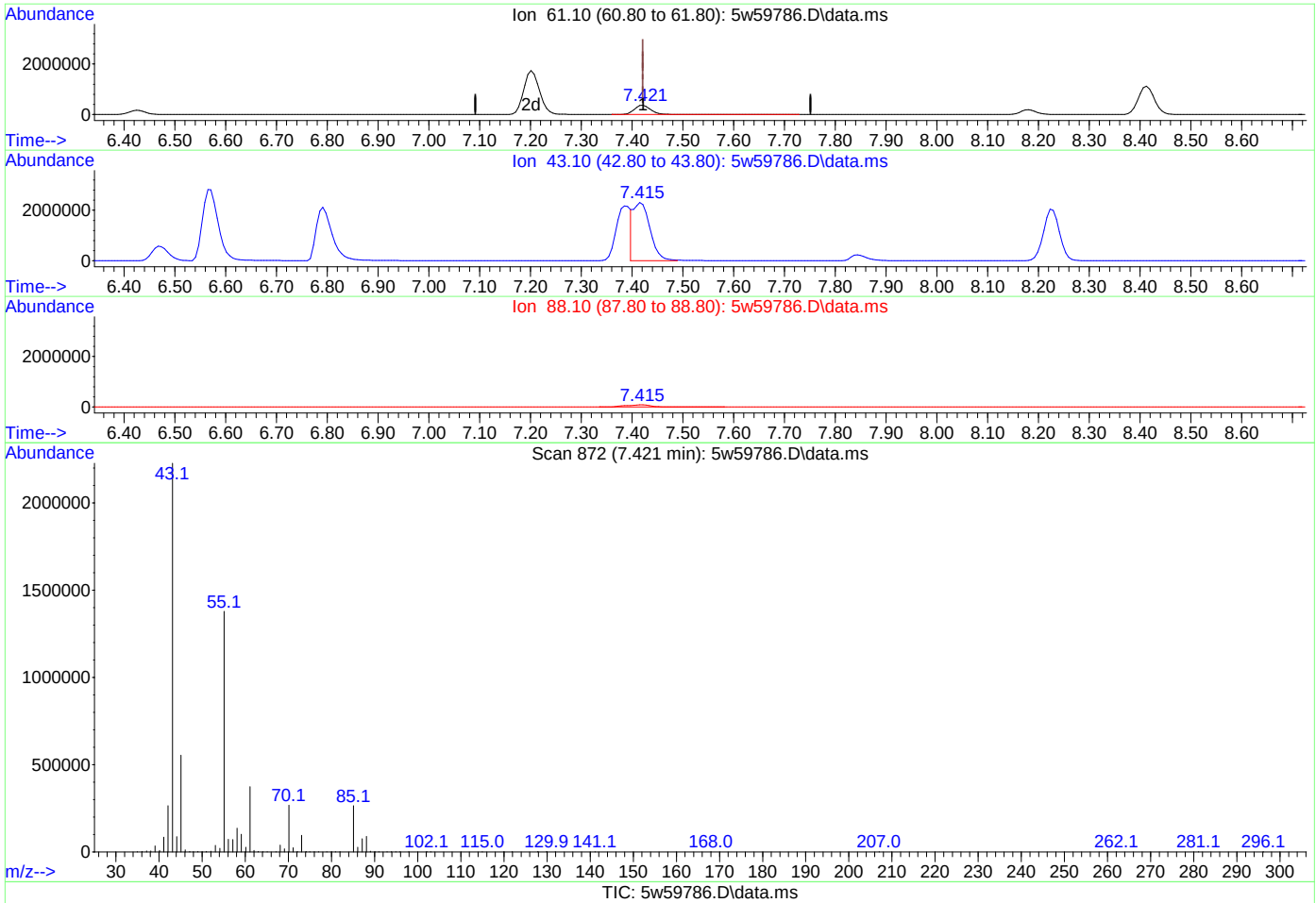
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1136.24#
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(44) ETHYL ACETATE

7.421min (+0.000) 34.91PPBV m

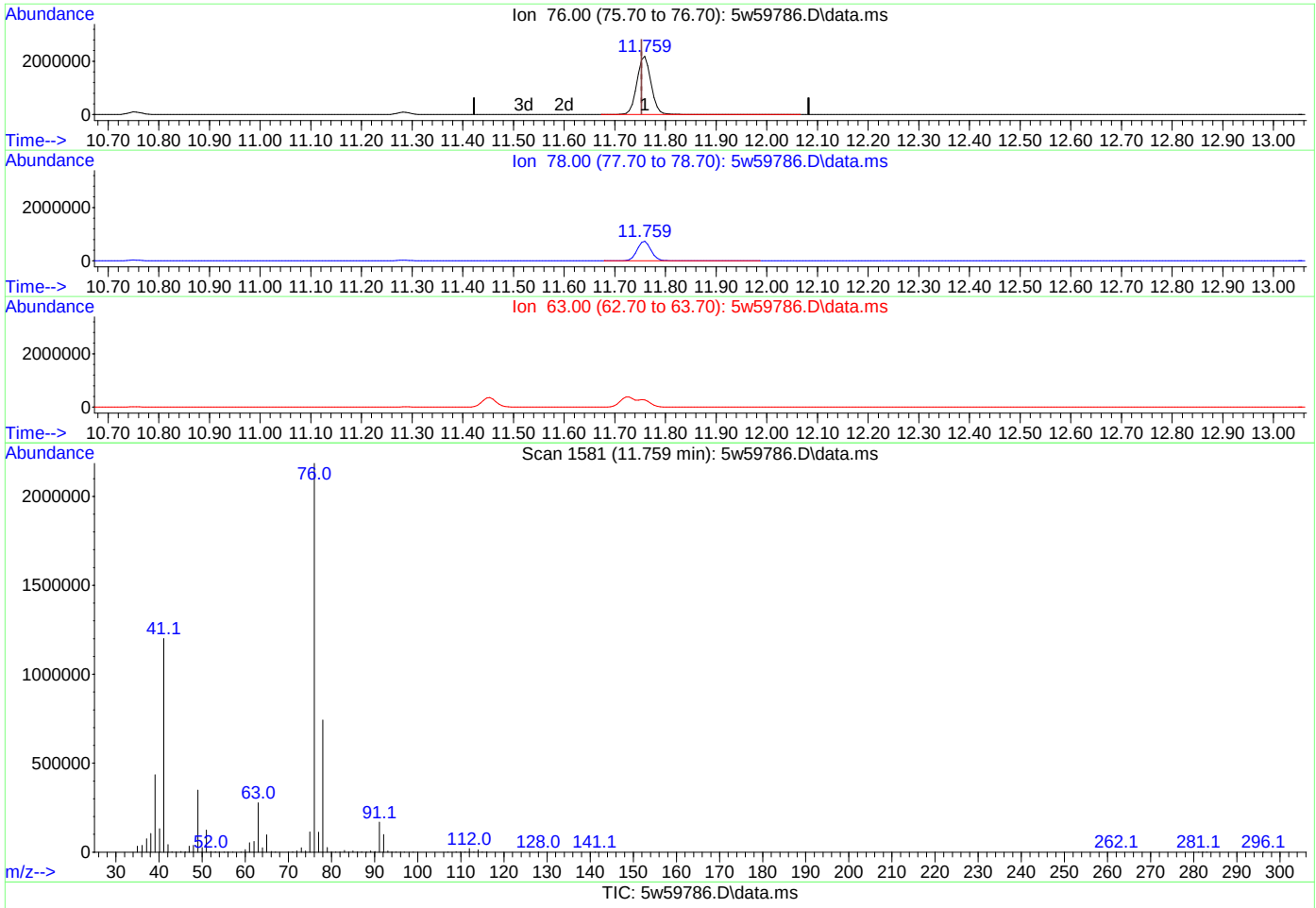
response 845012

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	618.03
88.10	34.50	36.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV

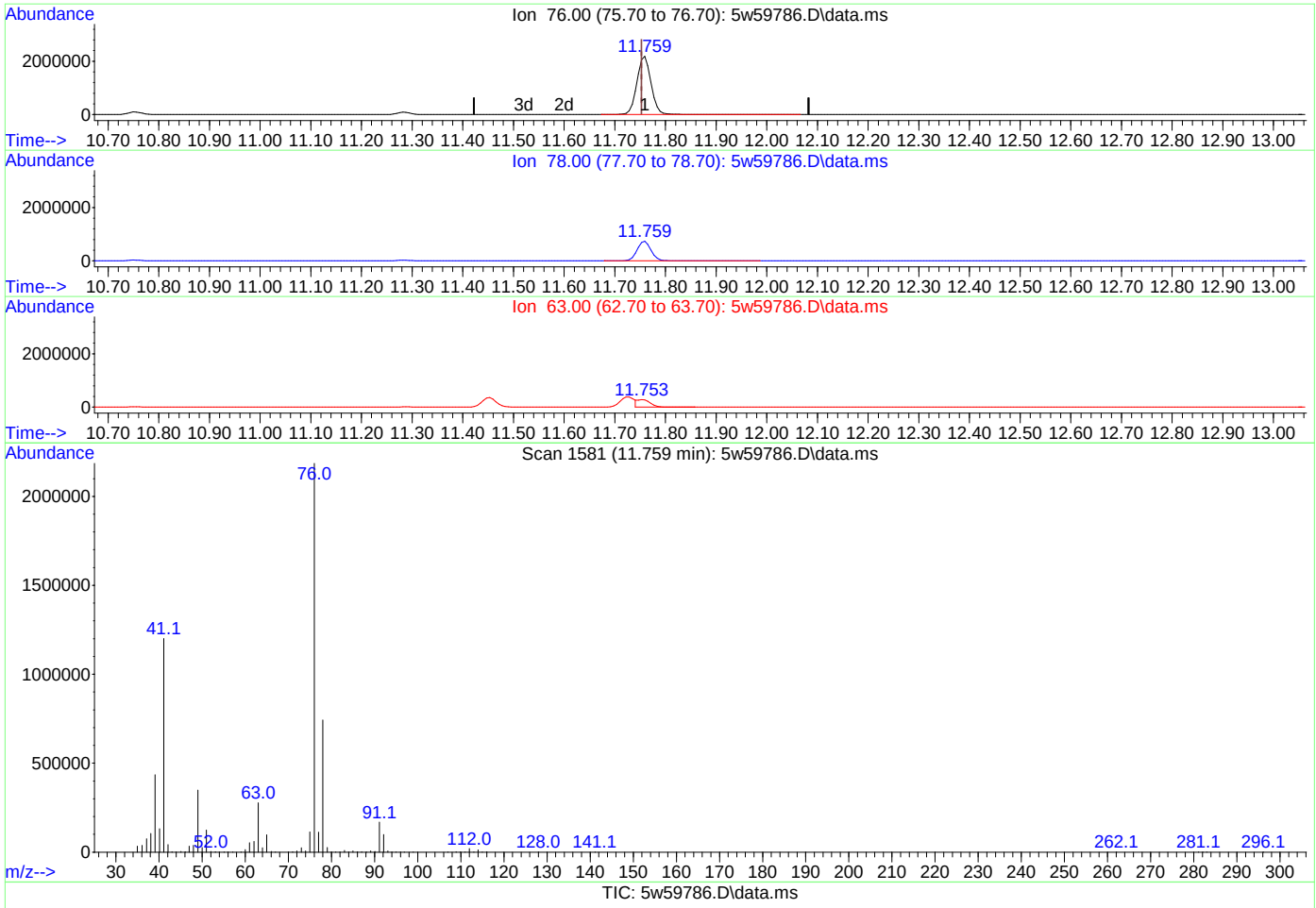
response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59786.D
Acq On : 7 Nov 2025 9:38 am
Operator : benk
Sample : ic2292-50
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:03:47 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59786.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 38.74PPBV m

response 4271872

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.42
63.00	10.10	11.61
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/25 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.366	128	467614	10.00	PPBV		0.01
51) 1,4-DIFLUOROBENZENE	9.220	114	1973593	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.545	82	1346242	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.366	128	467614	10.00	PPBV		0.01
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.167	95	1432127	8.79	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 87.90%				
Target Compounds							Qvalue
2) FREON 115	3.365	119	581031	25.61	PPBV		100
3) FREON 152A	3.445	65	2109561	69.10	PPBV		94
4) CHLORODIFLUOROMETHANE	3.476	67	930907	63.03	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.506	116	4660403	63.22	PPBV		97
6) DICHLORODIFLUOROMETHANE	3.549	85	7605378	57.48	PPBV		96
7) PROPYLENE	3.500	41	1977365	62.50	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	5527171	55.41	PPBV		98
9) FREON 114	3.733	85	6296072	53.88	PPBV		96
10) CHLOROMETHANE	3.665	52	706786	54.00	PPBV		96
11) VINYL CHLORIDE	3.818	62	2396129	54.50	PPBV		99
12) 1,3-BUTADIENE	3.910	54	1434792	57.20	PPBV		98
13) n-BUTANE	3.947	43	2229721	56.04	PPBV		98
14) BROMOMETHANE	4.106	94	2666902	57.99	PPBV		100
15) CHLOROETHANE	4.228	64	1048912	54.16	PPBV		99
16) DICHLOROFLUOROMETHANE	4.289	67	5025383	54.94	PPBV		98
17) ACETONITRILE	4.479	41	1245621	52.74	PPBV		99
18) ACROLEIN	4.571	56	762905	54.68	PPBV		95
19) FREON 123	4.595	83	5407858m	53.17	PPBV		
20) FREON 123A	4.638	117	3495792	57.82	PPBV		92
21) TRICHLOROFLUOROMETHANE	4.797	101	6263951	56.50	PPBV		99
22) ISOPROPYL ALCOHOL	4.877	45	4774264	59.23	PPBV		99
23) ACETONE	4.669	58	909361	55.35	PPBV		98
24) PENTANE	5.072	42	2631624	64.00	PPBV		96
25) IODOMETHANE	5.256	142	9114140	64.39	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	2972573	64.07	PPBV		93
27) CARBON DISULFIDE	5.672	76	7844304	61.73	PPBV		97
28) ETHANOL	4.320	45	782956	51.79	PPBV		100
29) BROMOETHENE	4.479	106	2638149	57.30	PPBV		100
30) ACRYLONITRILE	5.048	52	1983513	68.16	PPBV		99
31) METHYLENE CHLORIDE	5.427	84	2586702	62.87	PPBV		95
32) 3-CHLOROPROPENE	5.525	76	1356999	64.21	PPBV	#	88
33) FREON 113	5.641	151	5255099	62.99	PPBV		98
34) TRANS-1,2-DICHLOROETHY...	6.241	96	3195584	65.25	PPBV		96
35) TERTIARY BUTYL ALCOHOL	5.372	59	4989539	52.68	PPBV		98
36) METHYL TERTIARY BUTYL ...	6.473	73	7764187	63.24	PPBV		99
37) TETRAHYDROFURAN	7.844	72	1279396	65.77	PPBV		96
38) HEXANE	7.385	57	4098725	58.34	PPBV		91
39) VINYL ACETATE	6.571	86	595335	69.16	PPBV	#	73
40) 1,1-DICHLOROETHANE	6.430	63	5580661	63.37	PPBV		98
41) METHYL ETHYL KETONE	6.791	72	1403846	68.19	PPBV	#	81
42) cis-1,2-DICHLOROETHYLENE	7.207	96	3406006	66.53	PPBV		96
43) DIISOPROPYL ETHER	7.391	59	1304563	59.80	PPBV	#	72
44) ETHYL ACETATE	7.422	61	1009100m	62.87	PPBV		
45) METHYL ACRYLATE	7.409	55	5147084	59.04	PPBV		96
46) CHLOROFORM	7.489	83	6393103	62.45	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.229	57	5181431	62.87	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.413	97	6744194	62.23	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	9.000	117	7391895	61.67	PPBV		99
50)	1,2-DICHLOROETHANE	8.180	62	4560398	62.85	PPBV		98
52)	BENZENE	8.859	78	8949189	67.41	PPBV		99
53)	CYCLOHEXANE	9.110	84	3590293	67.59	PPBV		97
54)	2,3-DIMETHYLPENTANE	9.355	71	1853301	67.86	PPBV		90
55)	TRICHLOROETHYLENE	9.893	95	4247994	61.05	PPBV		98
56)	1,2-DICHLOROPROPANE	9.661	63	3414269	61.24	PPBV		99
57)	DIBROMOMETHANE	9.642	174	4863346	64.66	PPBV		97
58)	ETHYL ACRYLATE	9.685	55	6797917	63.67	PPBV		98
59)	BROMODICHLOROMETHANE	9.862	83	7417663	61.30	PPBV		97
60)	2,2,4-TRIMETHYLPENTANE	9.924	57	11658719	56.13	PPBV		96
61)	1,4-DIOXANE	9.893	88	1844331	60.00	PPBV	#	1
62)	HEPTANE	10.193	43	4474034	63.31	PPBV		93
63)	METHYL METHACRYLATE	10.113	69	3101307	67.79	PPBV		94
64)	METHYL ISOBUTYL KETONE	10.792	58	2975343	66.58	PPBV		88
65)	cis-1,3-DICHLOROPROPENE	10.756	75	6183357	66.43	PPBV		90
66)	TOLUENE	11.728	92	6766589	65.67	PPBV		93
67)	1,3-DICHLOROPROPANE	11.759	76	5183507m	63.52	PPBV		
68)	trans-1,3-DICHLOROPROPENE	11.288	75	5535715	63.59	PPBV		93
69)	1,1,2-TRICHLOROETHANE	11.453	83	3736885	66.35	PPBV		100
71)	2-HEXANONE	12.010	58	4158676	54.00	PPBV		87
72)	ETHYL METHACRYLATE	12.034	69	5321053	53.39	PPBV		89
73)	TETRACHLOROETHYLENE	12.878	164	5112644	56.17	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.157	129	8396348	52.38	PPBV		98
75)	1,2-DIBROMOETHANE	12.401	107	7189005	57.04	PPBV		100
76)	OCTANE	12.750	43	6099138	51.61	PPBV		89
77)	1,1,1,2-TETRACHLOROETHANE	13.576	131	5539677	54.07	PPBV		100
78)	CHLOROBENZENE	13.594	112	8685700	52.99	PPBV		98
79)	ETHYLBENZENE	13.992	91	13293280	52.78	PPBV		93
80)	m,p-XYLENE	14.194	106	10660694	104.01	PPBV		86
81)	o-XYLENE	14.689	106	4828440	49.93	PPBV		93
82)	STYRENE	14.579	104	8801086	56.42	PPBV		98
83)	NONANE	14.940	43	5544485	46.77	PPBV		89
84)	BROMOFORM	14.261	173	8954982	53.58	PPBV		97
86)	1,1,2,2-TETRACHLOROETHANE	14.689	83	7680268	46.70	PPBV		98
87)	1,2,3-TRICHLOROPROPANE	14.824	75	6463476	53.62	PPBV		96
88)	ISOPROPYLBENZENE	15.307	105	13782072	47.61	PPBV		93
89)	BROMOBENZENE	15.387	77	7438070	50.72	PPBV		95
90)	2-CHLOROTOLUENE	15.772	126	4362530	53.10	PPBV		99
91)	n-PROPYLBENZENE	15.815	120	4269312	52.74	PPBV		100
92)	4-ETHYLTOLUENE	15.962	105	13388380	48.02	PPBV		91
93)	1,3,5-TRIMETHYLBENZENE	16.047	105	11253685	47.79	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.200	118	6738901	50.76	PPBV		98
95)	tert-BUTYLBENZENE	16.433	134	2429034	46.98	PPBV	#	85
96)	1,2,4-TRIMETHYLBENZENE	16.451	105	9912721	42.68	PPBV		96
97)	m-DICHLOROBENZENE	16.592	146	8350505	44.49	PPBV		97
98)	BENZYL CHLORIDE	16.580	91	10182019	42.40	PPBV		95
99)	p-DICHLOROBENZENE	16.659	146	9434738	51.05	PPBV		96
100)	sec-BUTYLBENZENE	16.702	134	3389691	52.25	PPBV	#	63
101)	1,2,3-TRIMETHYLBENZENE	16.855	105	9964483	41.33	PPBV		97
102)	p-ISOPROPYLTOLUENE	16.867	134	3209884	42.88	PPBV	#	83
103)	o-DICHLOROBENZENE	16.983	146	9264152	51.54	PPBV		96
104)	n-BUTYLBENZENE	17.271	134	4068110	53.04	PPBV	#	67
105)	HEXACHLOROETHANE	17.614	117	5943910	48.19	PPBV		95
106)	HEXACHLOROBUTADIENE	18.972	225	6941797	42.04	PPBV		97
107)	1,2,4-TRICHLOROBENZENE	18.892	180	8668660	50.18	PPBV		98
108)	NAPHTHALENE	18.666	128	15644412	41.73	PPBV		88
110)	TVHC as equiv Pentane	5.072	TIC	17678397	64.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

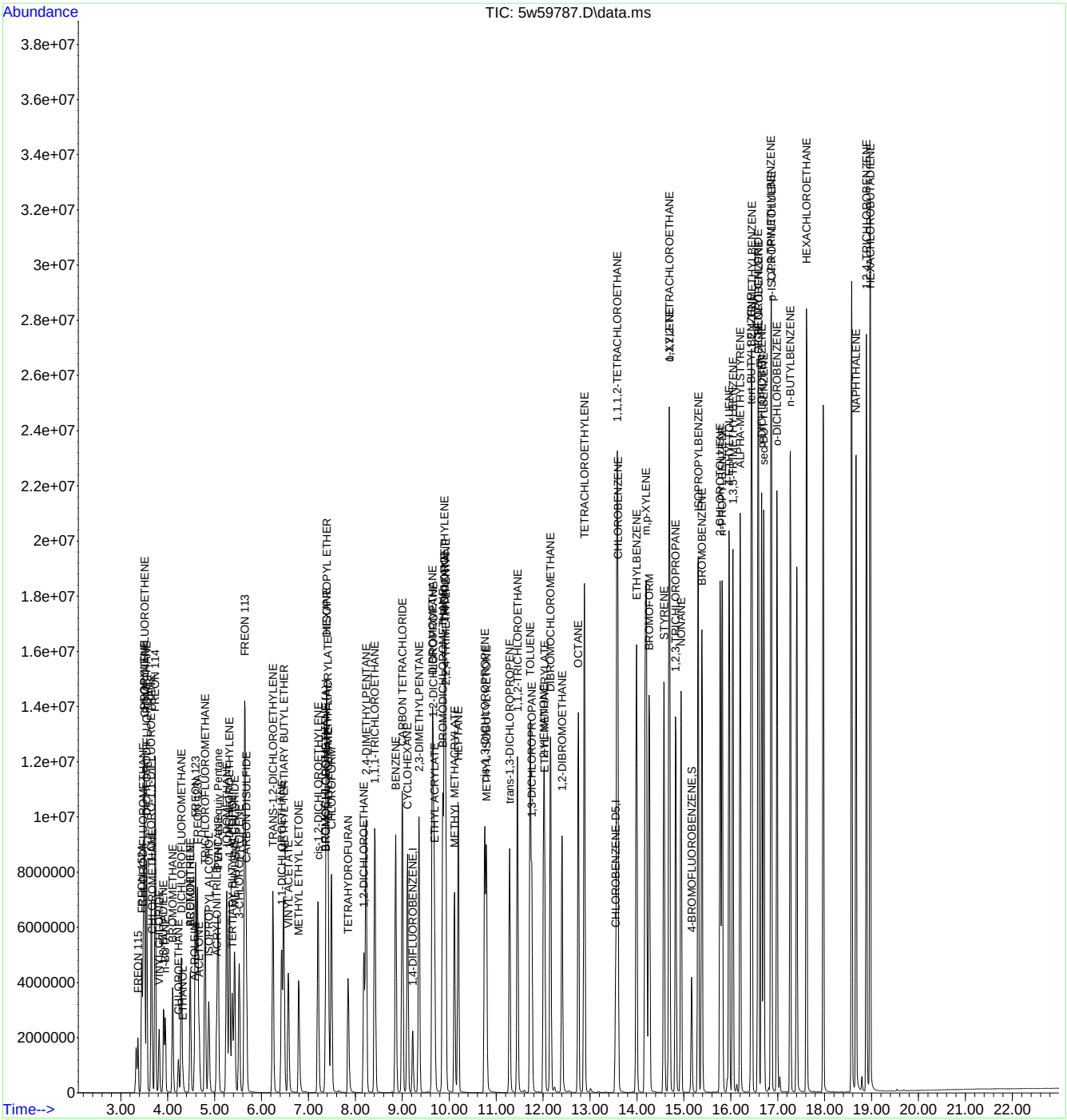
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

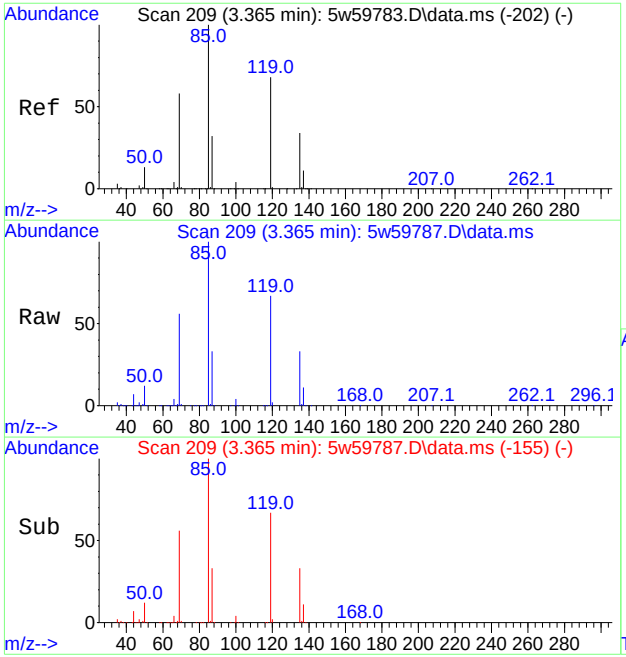
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:45:13 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration

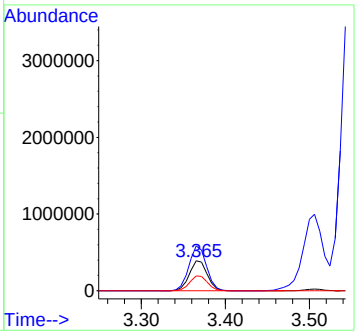


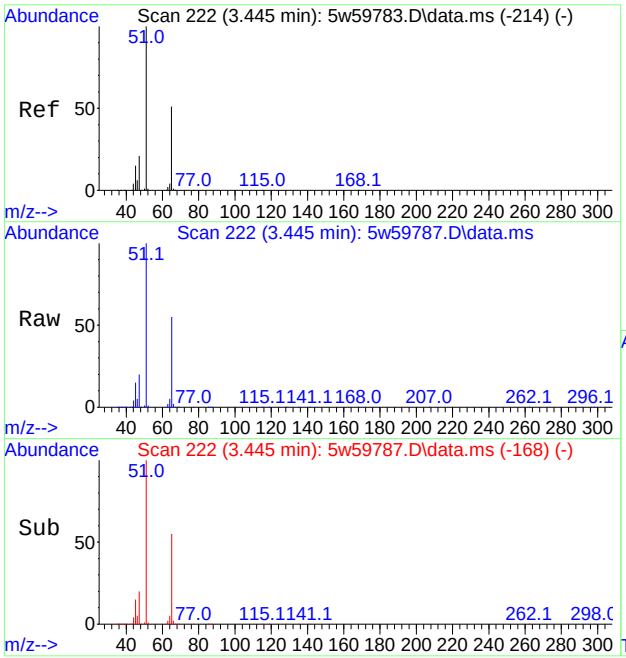


#2
FREON 115
Concen: 25.61 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:119 Resp: 581031

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.1	20.6	80.6

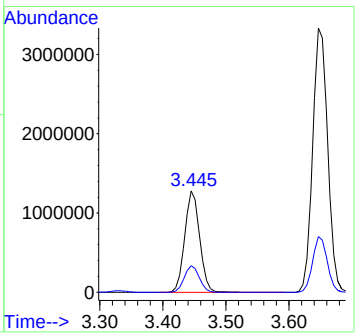


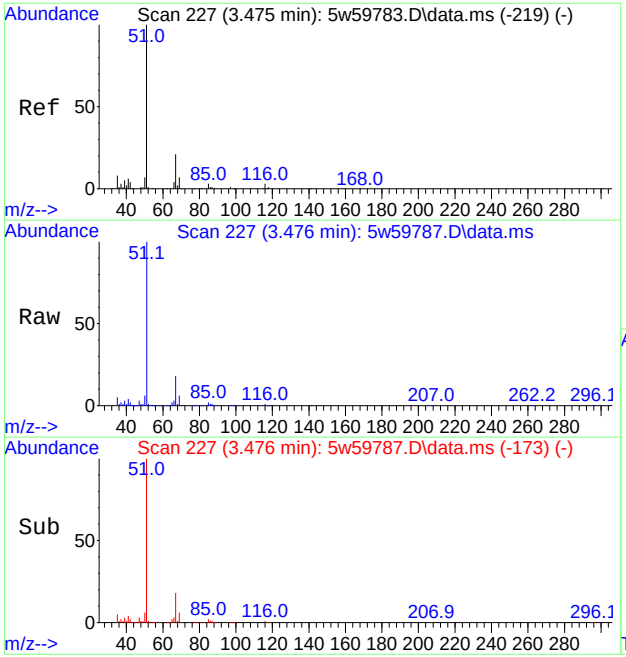


#3
FREON 152A
Concen: 69.10 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 2109561

Ion	Ratio	Lower	Upper
65	100		
45	26.7	0.0	60.0

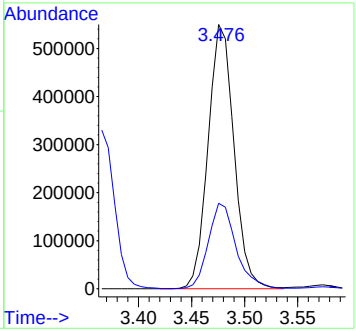


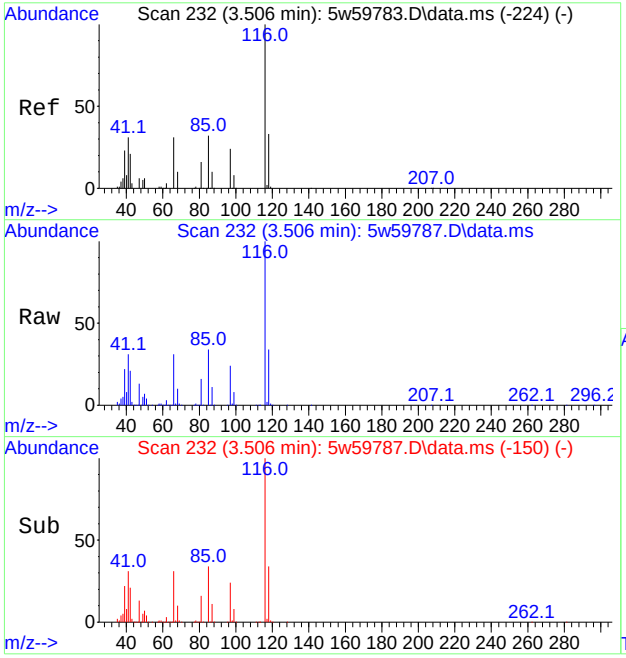


#4
CHLORODIFLUOROMETHANE
Concen: 63.03 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 930907

Ion	Ratio	Lower	Upper
67	100		
69	32.3	1.0	61.0

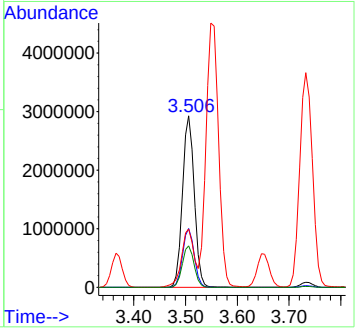


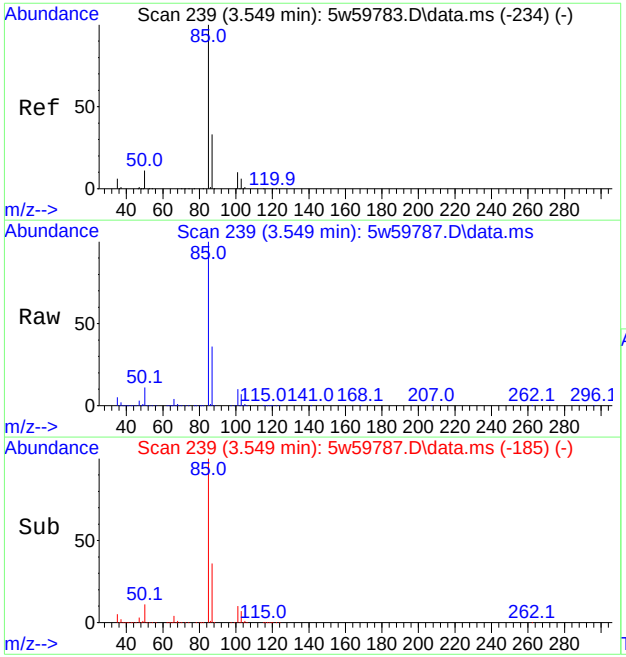


#5
CHLOROTRIFLUOROETHENE
Concen: 63.22 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:116 Resp: 4660403

Ion	Ratio	Lower	Upper
116	100		
118	33.9	22.9	42.5
85	36.8	23.7	44.1
97	24.2	17.0	31.6

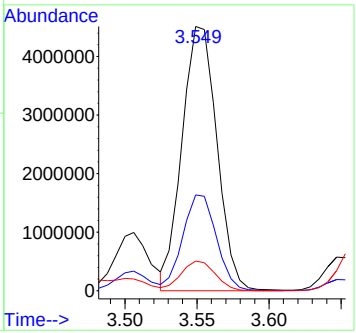


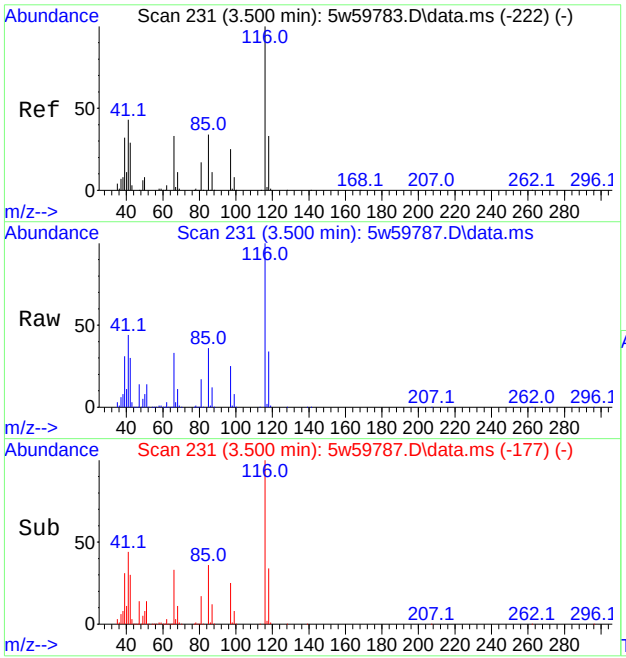


#6
DICHLORODIFLUOROMETHANE
Concen: 57.48 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 7605378

Ion	Ratio	Lower	Upper
85	100		
87	35.1	2.5	62.5
50	11.1	0.0	41.7

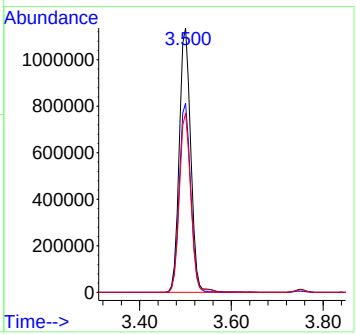


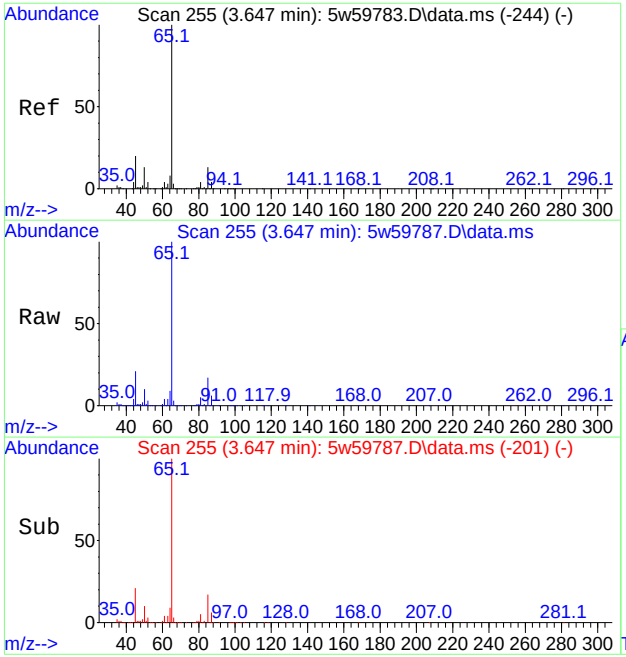


#7
PROPYLENE
Concen: 62.50 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1977365

Ion	Ratio	Lower	Upper
41	100		
39	71.6	45.1	105.1
42	67.3	36.3	96.3

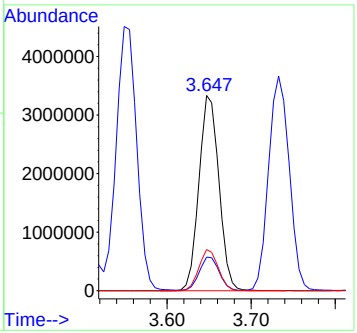


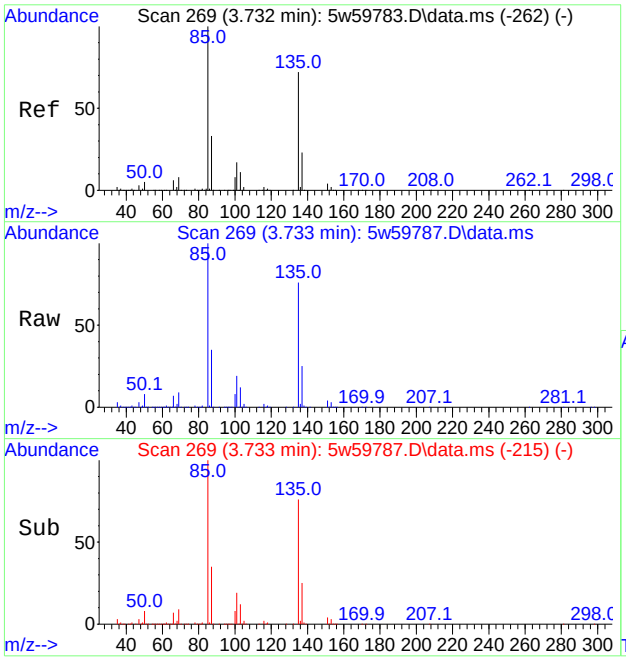


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 55.41 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 65 Resp: 5527171

Ion	Ratio	Lower	Upper
65	100		
85	17.3	11.5	21.3
45	20.6	14.0	26.0

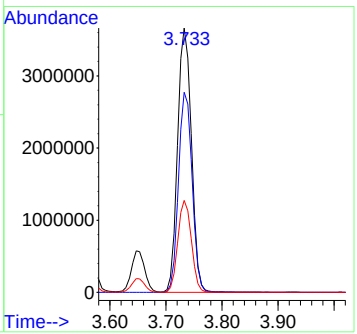


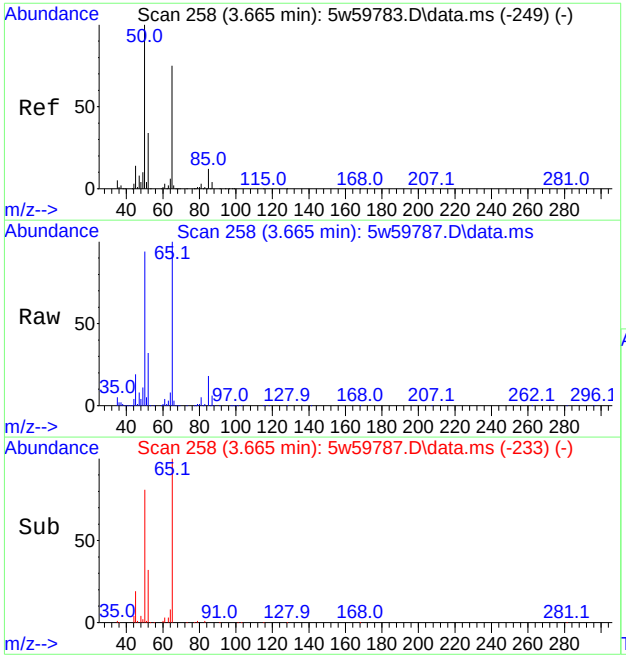


#9
FREON 114
Concen: 53.88 PPBV
RT: 3.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 85 Resp: 6296072

Ion	Ratio	Lower	Upper
85	100		
135	74.5	40.5	100.5
87	34.1	3.0	63.0

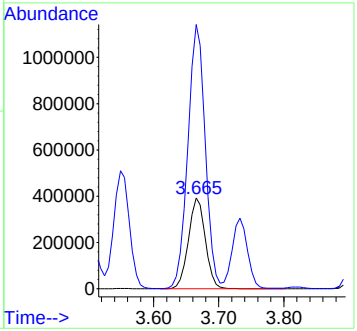


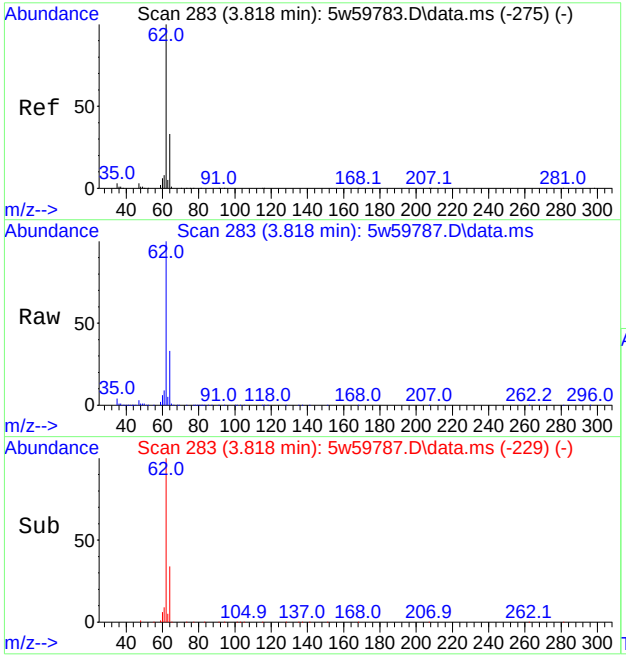


#10
CHLOROMETHANE
Concen: 54.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 706786

Ion	Ratio	Lower	Upper
52	100		
50	290.3	267.9	327.9

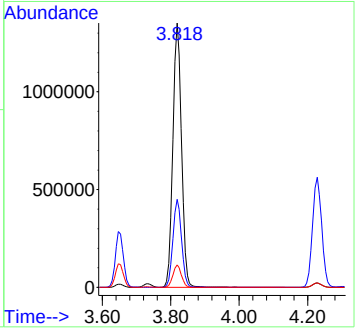


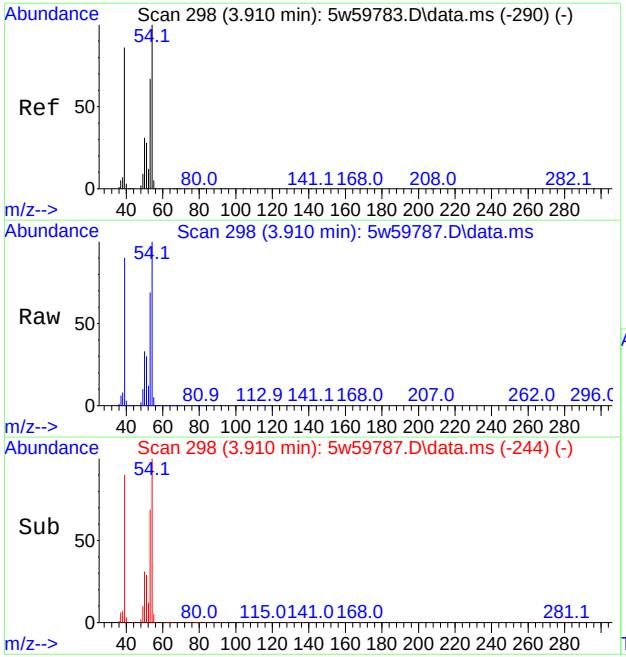


#11
VINYL CHLORIDE
Concen: 54.50 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 2396129

Ion	Ratio	Lower	Upper
62	100		
64	33.2	3.6	63.6
61	8.4	0.0	38.2

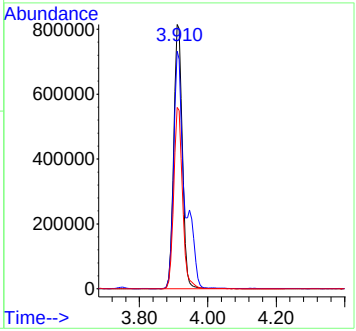


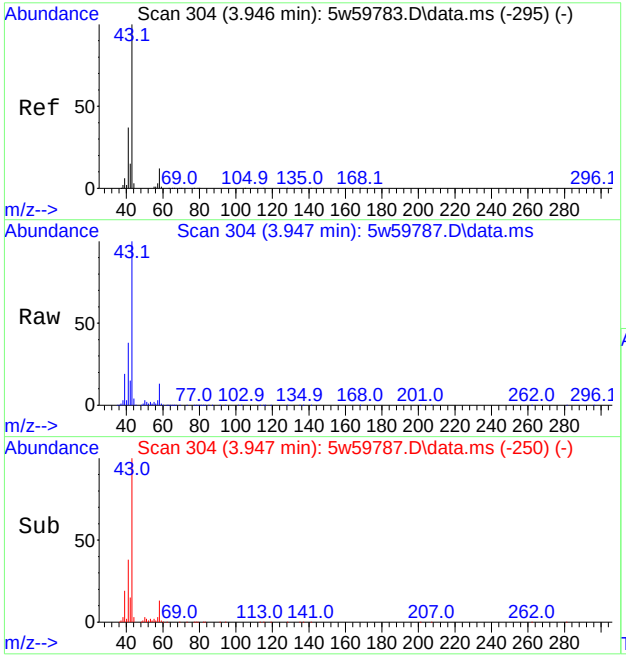


#12
1,3-BUTADIENE
Concen: 57.20 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 54 Resp: 1434792

Ion	Ratio	Lower	Upper
54	100		
39	115.1	82.0	142.0
53	70.3	40.2	100.2

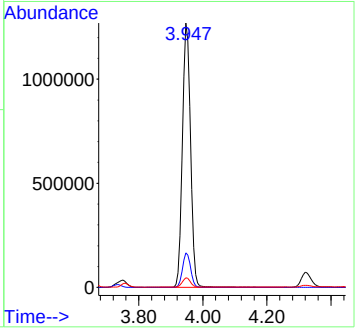


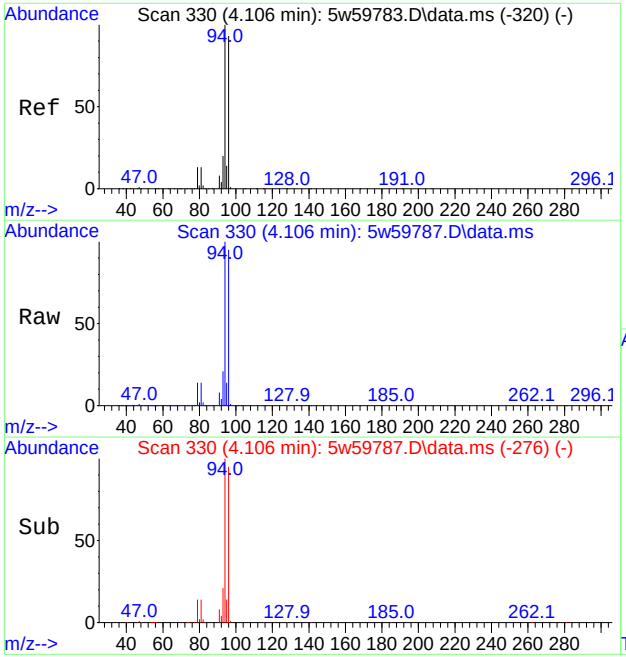


#13
n-BUTANE
Concen: 56.04 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 2229721

Ion	Ratio	Lower	Upper
43	100		
58	13.0	0.0	42.6
44	3.6	0.0	34.9

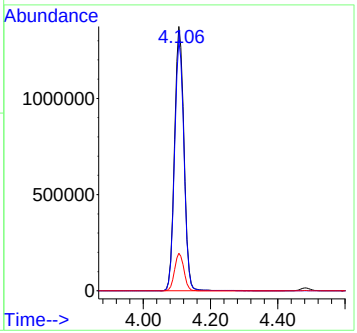


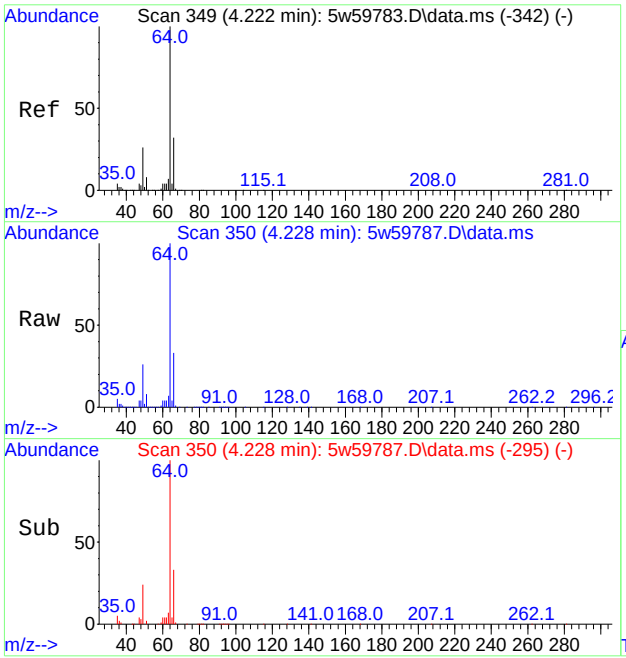


#14
BROMOMETHANE
Concen: 57.99 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 94 Resp: 2666902

Ion	Ratio	Lower	Upper
94	100		
96	94.9	65.3	125.3
95	14.2	0.0	44.1

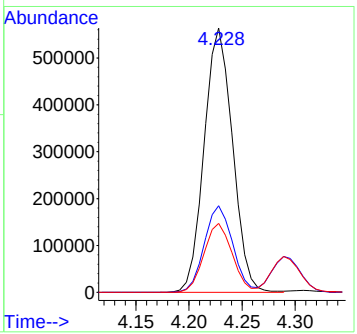


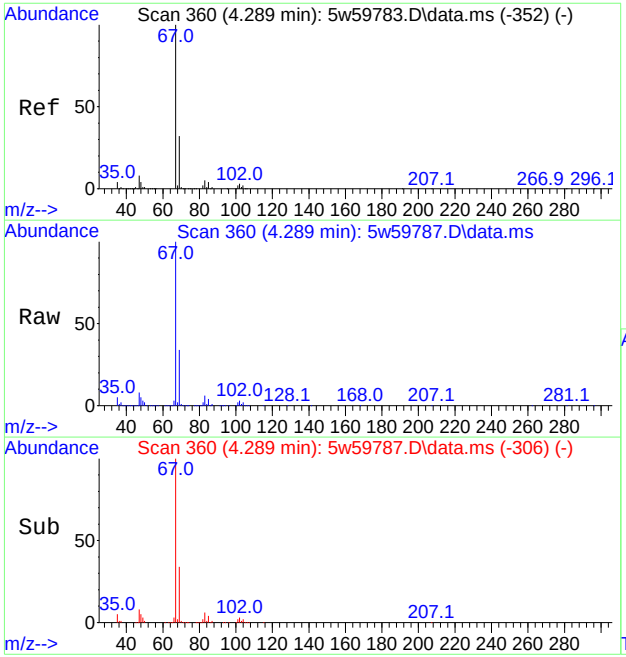


#15
CHLOROETHANE
Concen: 54.16 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 64 Resp: 1048912

Ion	Ratio	Lower	Upper
64	100		
66	32.8	3.1	63.1
49	25.8	0.0	55.3

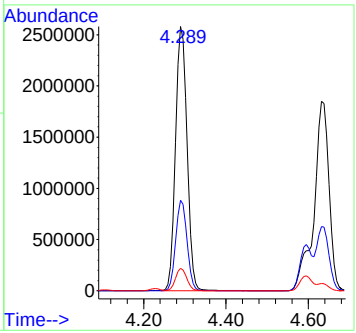


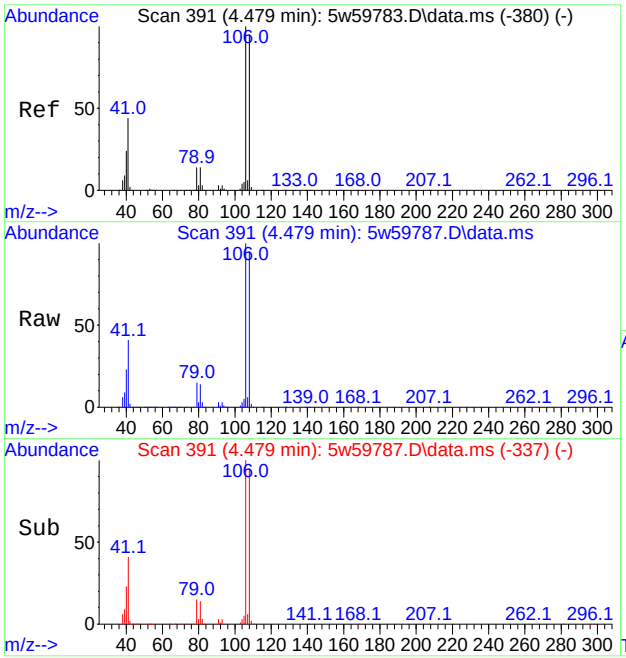


#16
DICHLOROFLUOROMETHANE
Concen: 54.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 67 Resp: 5025383

Ion	Ratio	Lower	Upper
67	100		
69	33.7	22.7	42.3
47	8.4	5.6	10.4

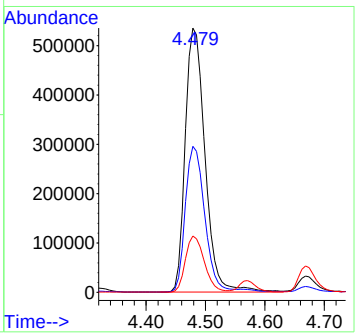


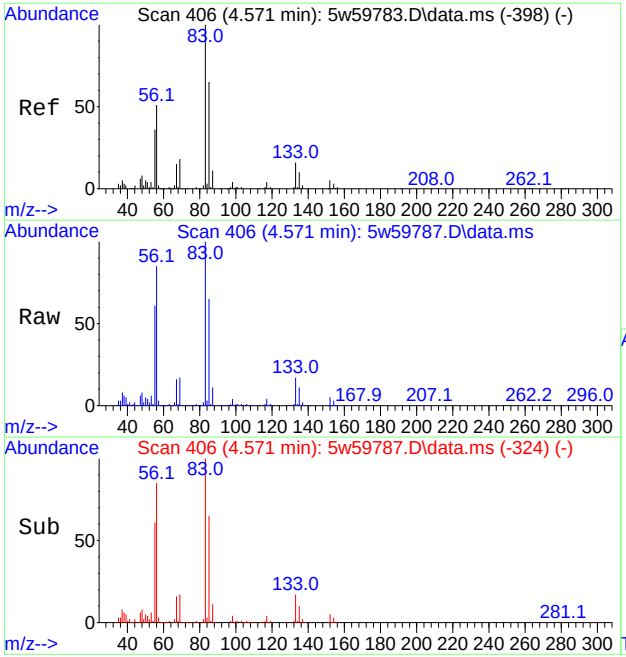


#17
ACETONITRILE
Concen: 52.74 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 41 Resp: 1245621

Ion	Ratio	Lower	Upper
41	100		
40	54.9	37.9	70.5
39	20.3	13.4	24.8

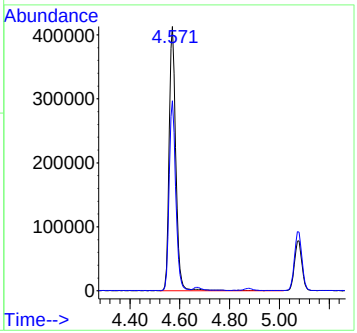


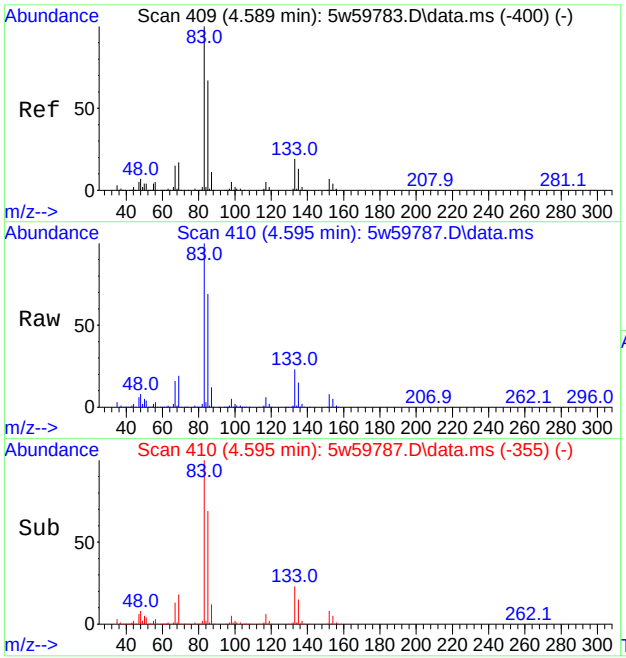


#18
ACROLEIN
Concen: 54.68 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 56 Resp: 762905

Ion	Ratio	Lower	Upper
56	100		
55	70.9	46.6	86.6

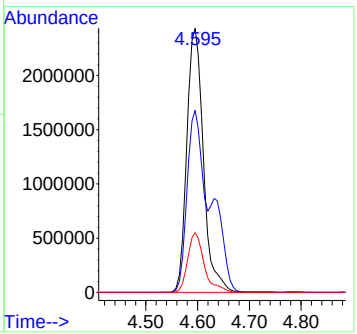


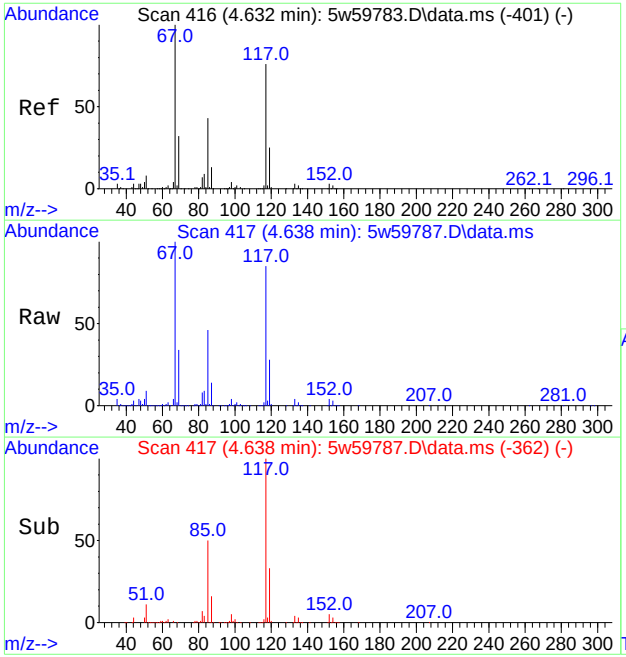


#19
FREON 123
Concen: 53.17 PPBV m
RT: 4.595 min Scan# 410
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 5407858

Ion	Ratio	Lower	Upper
83	100		
85	67.6	34.0	94.0
133	22.7	0.0	50.7

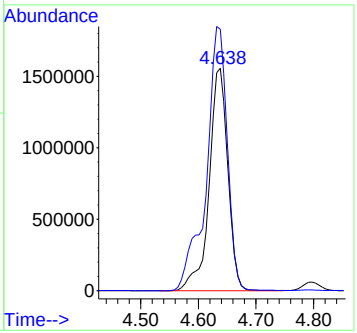


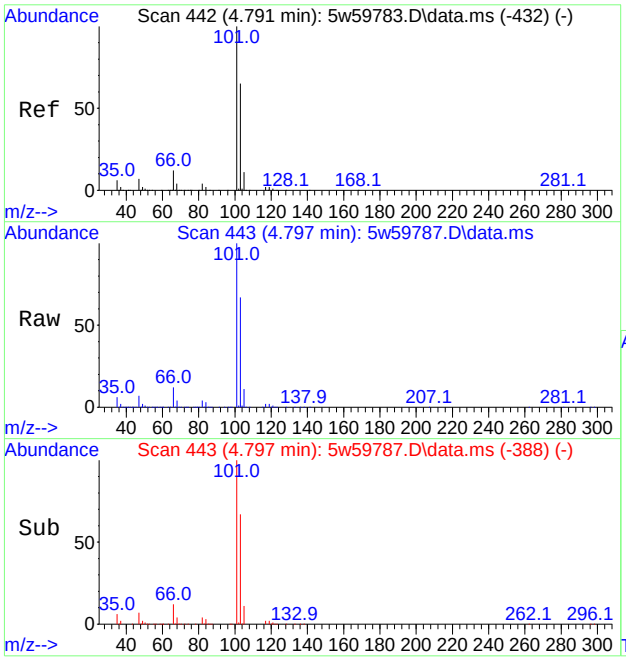


#20
FREON 123A
Concen: 57.82 PPBV
RT: 4.638 min Scan# 417
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 3495792

Ion	Ratio	Lower	Upper
117	100		
67	134.2	114.6	174.6

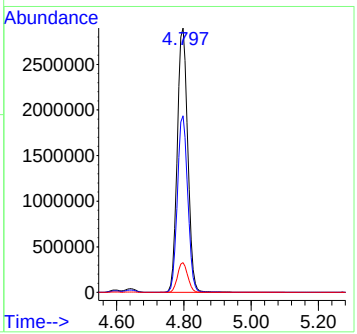




#21
TRICHLOROFLUOROMETHANE
Concen: 56.50 PPBV
RT: 4.797 min Scan# 443
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

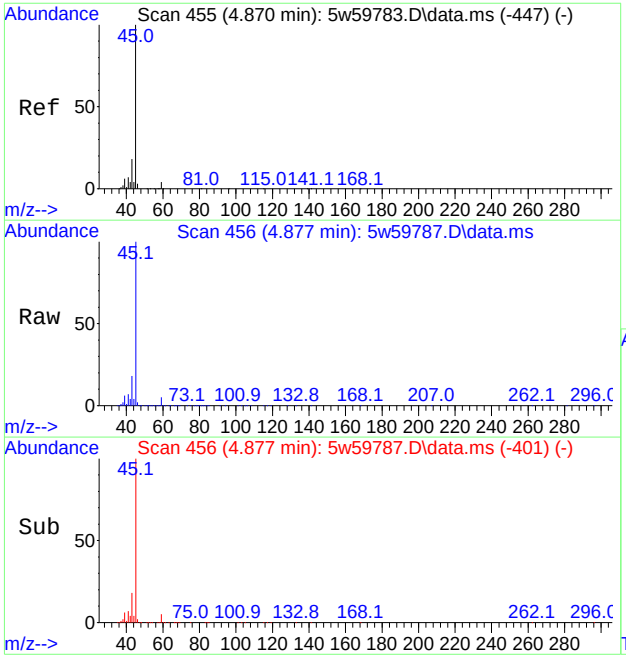
Tgt Ion:101 Resp: 6263951

Ion	Ratio	Lower	Upper
101	100		
103	66.2	35.0	95.0
105	11.1	0.0	40.7



7.7.10

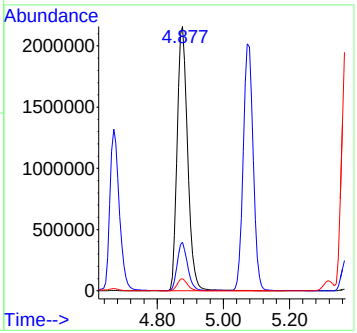
7

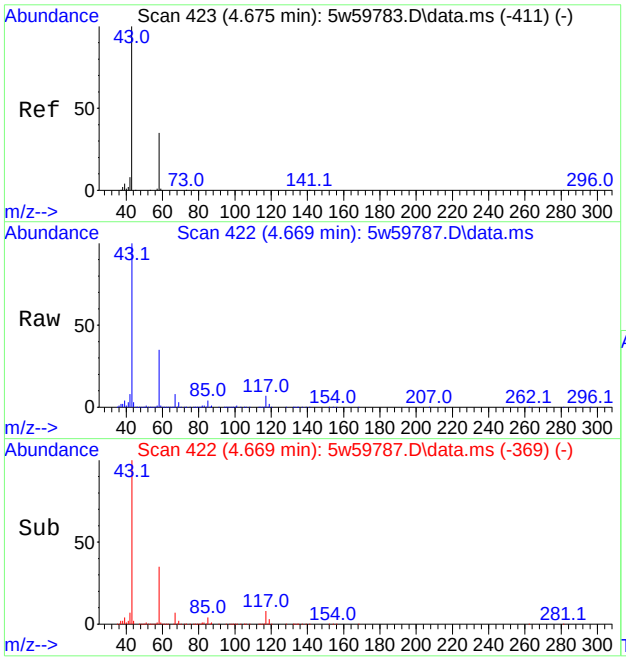


#22
ISOPROPYL ALCOHOL
Concen: 59.23 PPBV
RT: 4.877 min Scan# 456
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 4774264

Ion	Ratio	Lower	Upper
45	100		
43	18.3	0.0	47.8
59	4.5	0.0	34.1

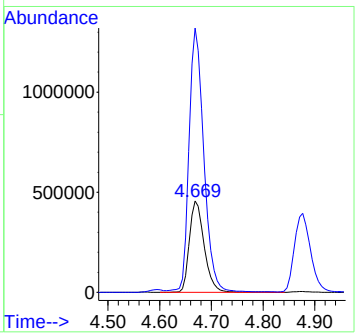


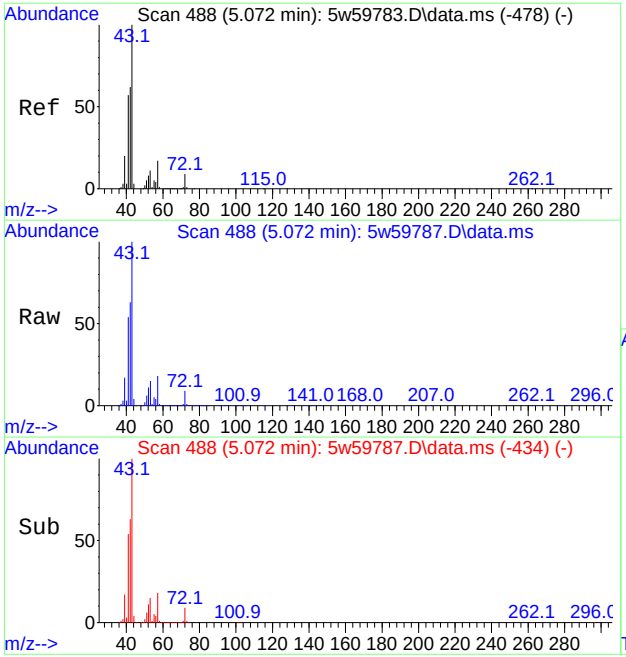


#23
ACETONE
Concen: 55.35 PPBV
RT: 4.669 min Scan# 422
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 909361

Ion	Ratio	Lower	Upper
58	100		
43	286.4	252.3	312.3

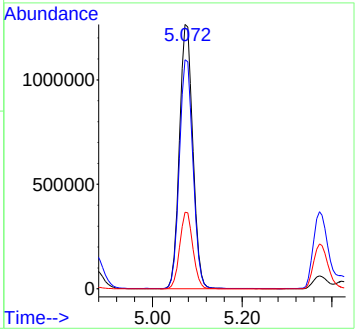


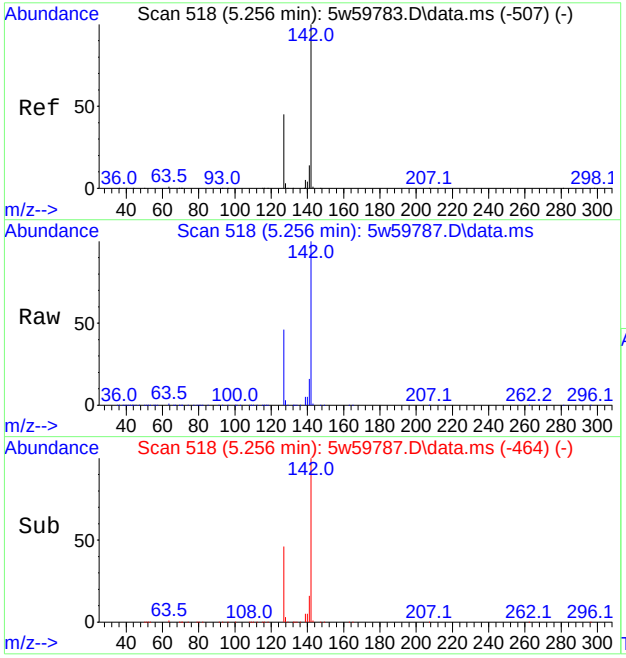


#24
PENTANE
Concen: 64.00 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 42 Resp: 2631624

Ion	Ratio	Lower	Upper
42	100		
41	88.0	62.3	122.3
57	28.7	0.0	57.7

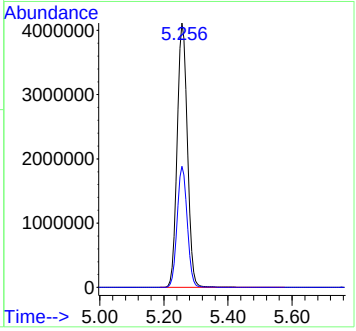


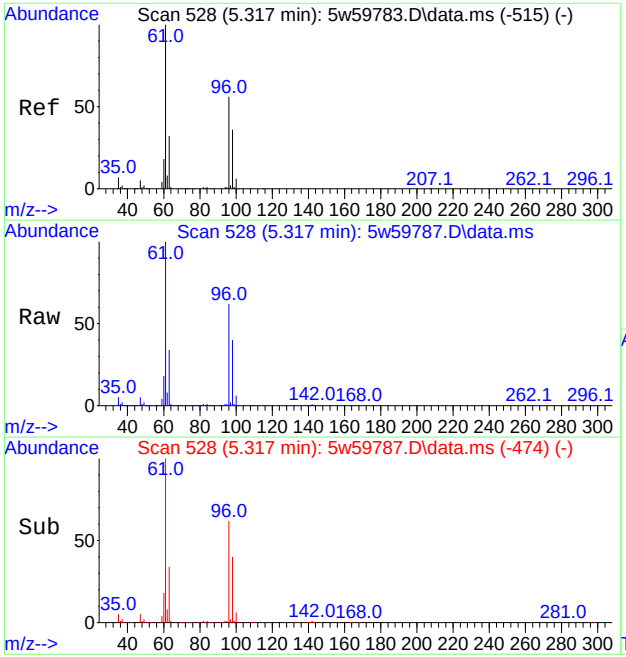


#25
IODOMETHANE
Concen: 64.39 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:142 Resp: 9114140

Ion	Ratio	Lower	Upper
142	100		
127	45.3	16.0	76.0

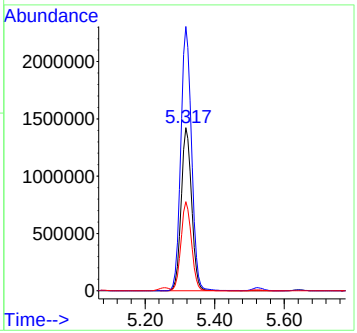


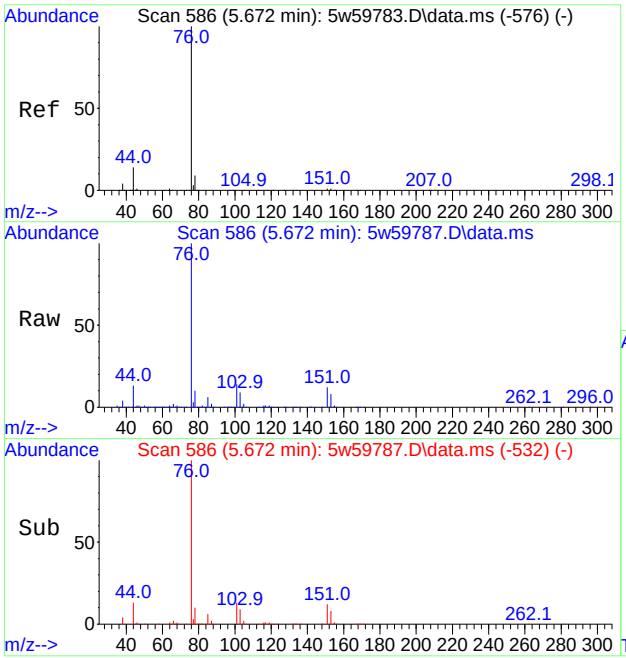


#26
1,1-DICHLOROETHYLENE
Concen: 64.07 PPBV
RT: 5.317 min Scan# 528
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 2972573

Ion	Ratio	Lower	Upper
96	100		
61	166.3	148.5	208.5
63	55.0	27.4	87.4

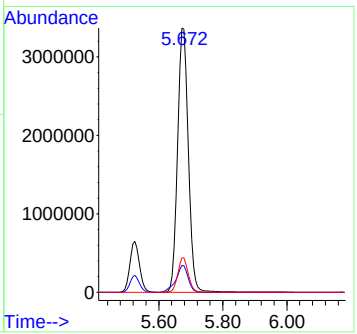


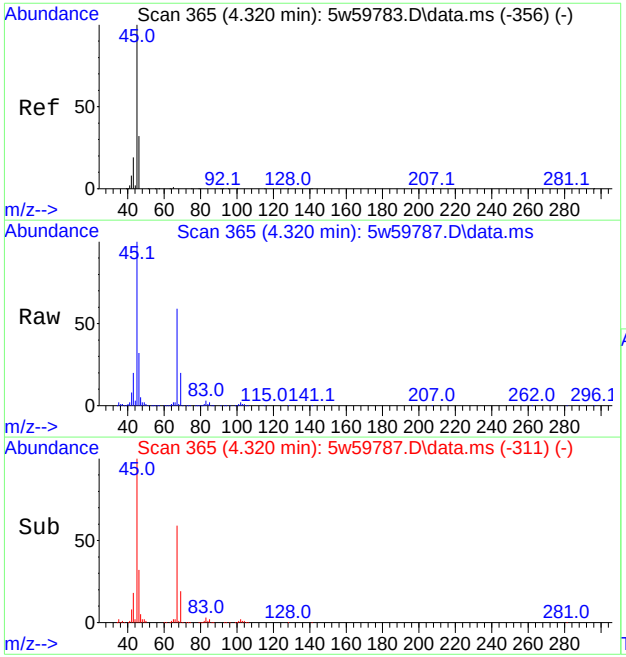


#27
CARBON DISULFIDE
Concen: 61.73 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 7844304

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	12.8	0.0	44.6

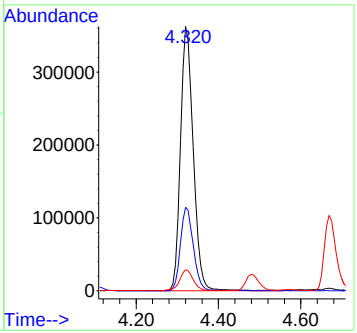


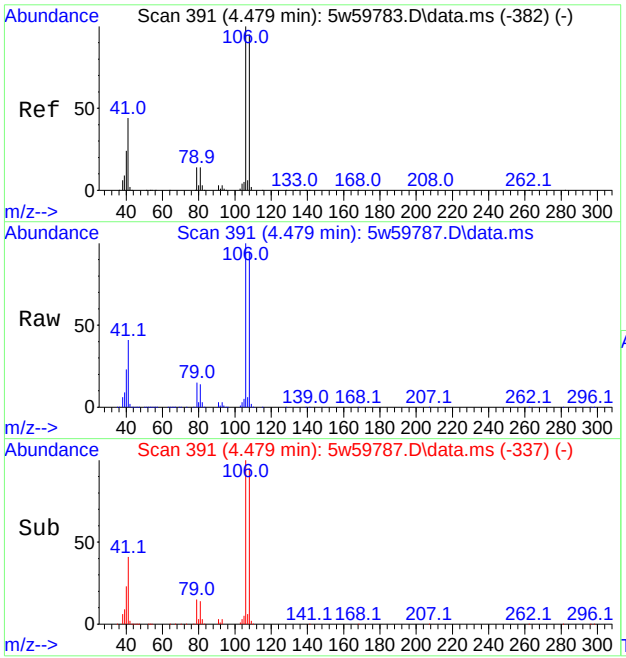


#28
ETHANOL
Concen: 51.79 PPBV
RT: 4.320 min Scan# 365
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 45 Resp: 782956

Ion	Ratio	Lower	Upper
45	100		
46	31.9	2.0	62.0
42	8.5	0.0	38.5

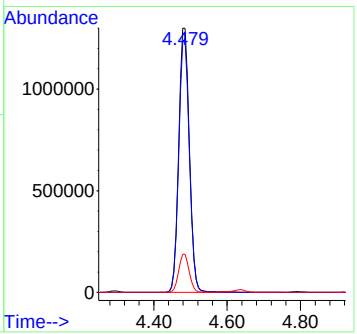


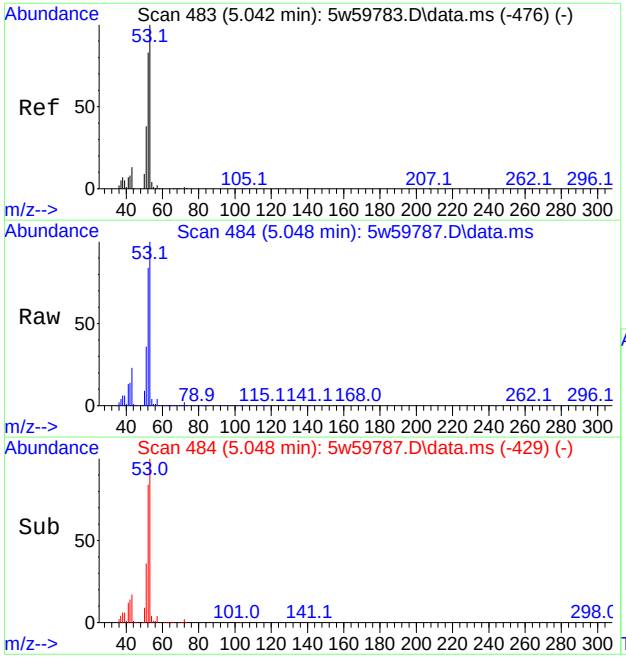


#29
BROMOETHENE
Concen: 57.30 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 2638149

Ion	Ratio	Lower	Upper
106	100		
108	95.2	65.6	125.6
81	14.3	0.0	43.9

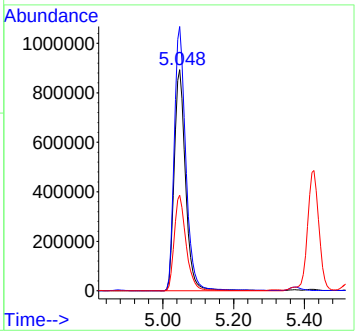


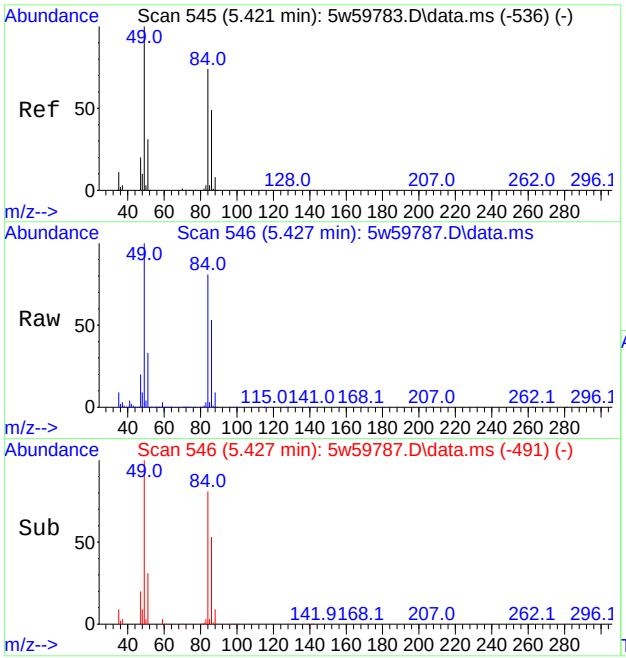


#30
ACRYLONITRILE
Concen: 68.16 PPBV
RT: 5.048 min Scan# 484
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 52 Resp: 1983513

Ion	Ratio	Lower	Upper
52	100		
53	121.8	85.8	159.4
51	45.1	32.3	60.1

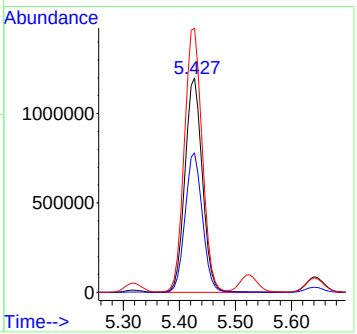


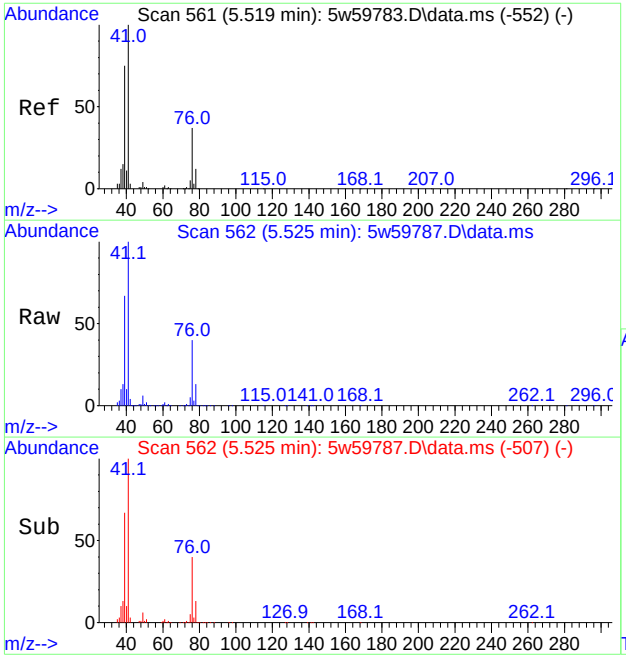


#31
METHYLENE CHLORIDE
Concen: 62.87 PPBV
RT: 5.427 min Scan# 546
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 2586702

Ion	Ratio	Lower	Upper
84	100		
86	65.0	35.2	95.2
49	126.9	105.3	165.3

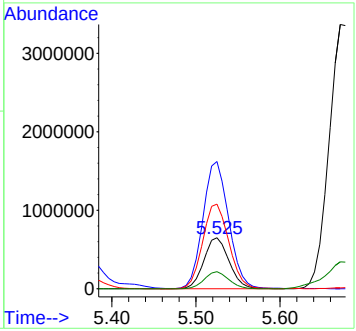


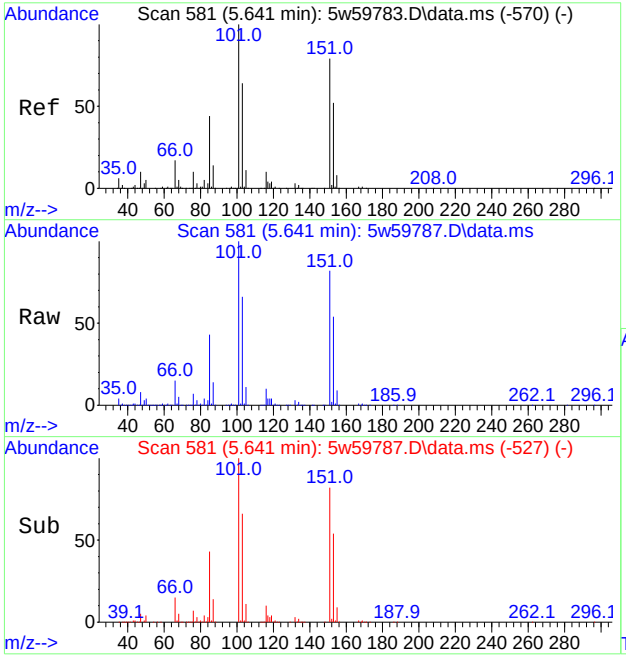


#32
3-CHLOROPROPENE
Concen: 64.21 PPBV
RT: 5.525 min Scan# 562
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 1356999

Ion	Ratio	Lower	Upper
76	100		
41	255.7	240.8	300.8
39	172.9	173.6	233.6#
78	32.9	2.8	62.8

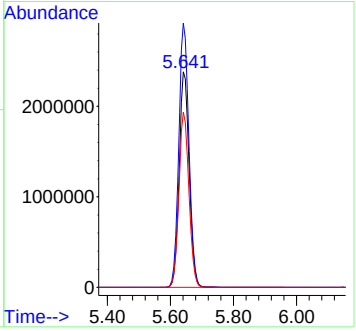


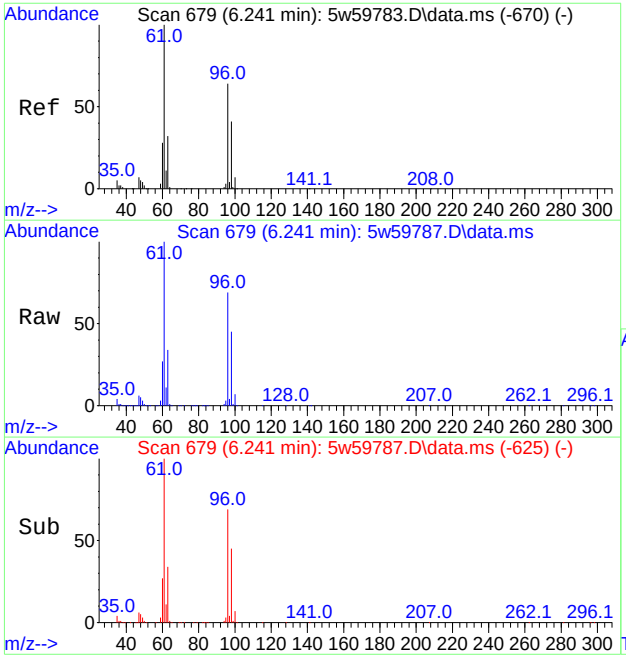


#33
FREON 113
Concen: 62.99 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:151 Resp: 5255099

Ion	Ratio	Lower	Upper
151	100		
101	124.0	97.5	157.5
103	81.5	52.5	112.5

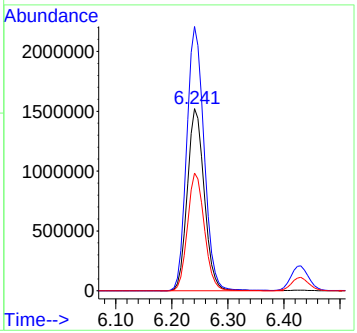


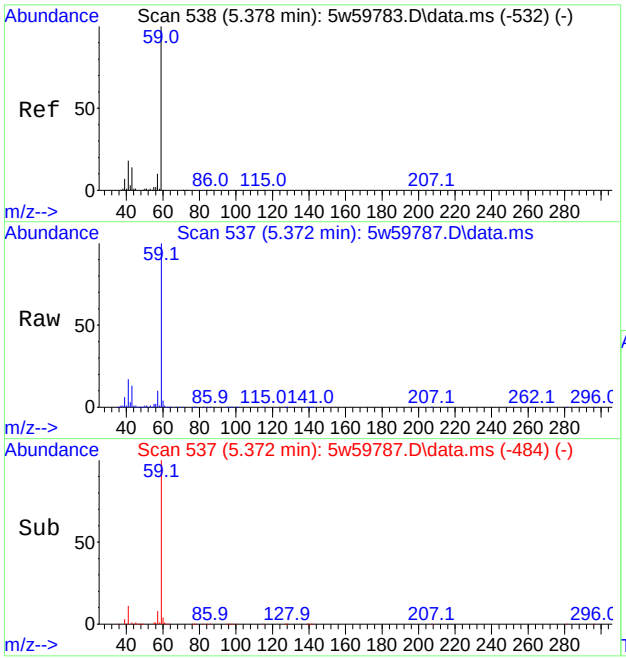


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 65.25 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3195584

Ion	Ratio	Lower	Upper
96	100		
61	148.6	126.4	186.4
98	64.5	34.1	94.1

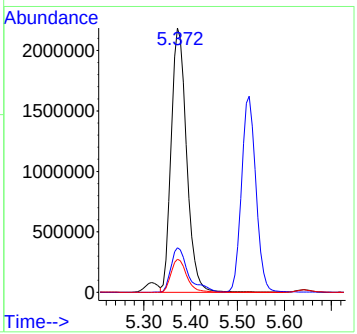


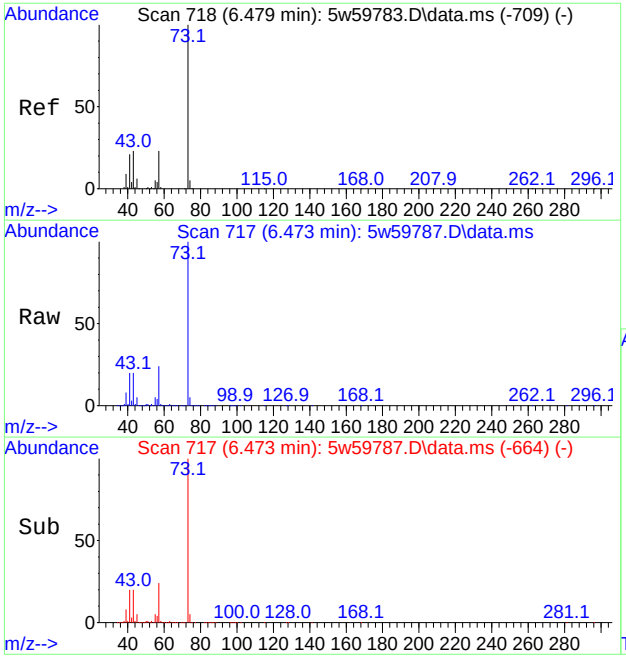


#35
TERTIARY BUTYL ALCOHOL
Concen: 52.68 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 4989539

Ion	Ratio	Lower	Upper
59	100		
41	18.9	0.0	49.3
43	12.7	0.0	44.1

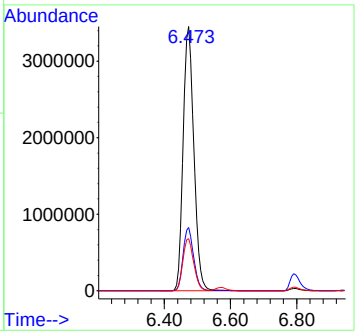


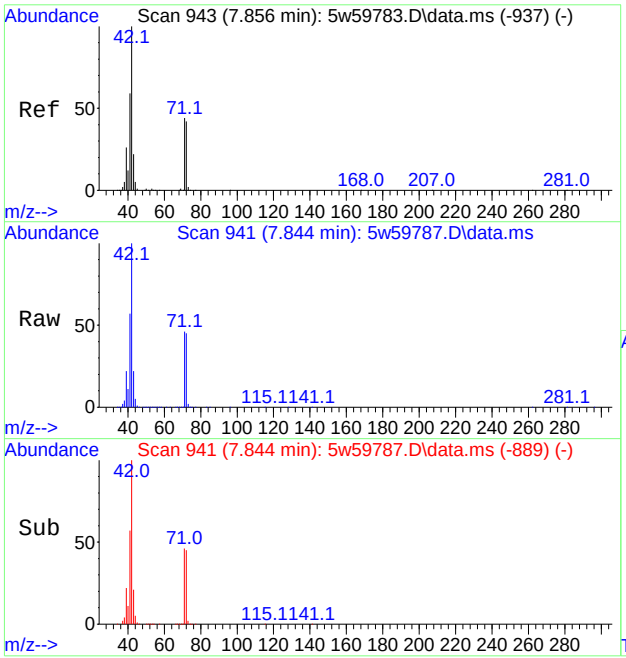


#36
METHYL TERTIARY BUTYL ETHER
Concen: 63.24 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 73 Resp: 7764187

Ion	Ratio	Lower	Upper
73	100		
57	23.5	0.0	53.1
41	19.8	0.0	50.6

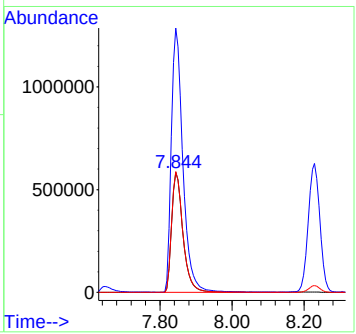


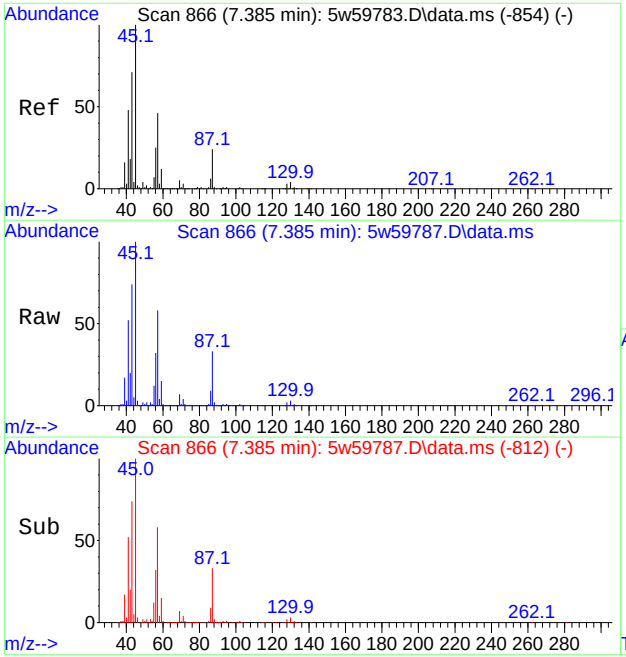


#37
TETRAHYDROFURAN
Concen: 65.77 PPBV
RT: 7.844 min Scan# 941
Delta R.T. -0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1279396

Ion	Ratio	Lower	Upper
72	100		
42	223.5	202.4	262.4
71	100.6	71.1	131.1

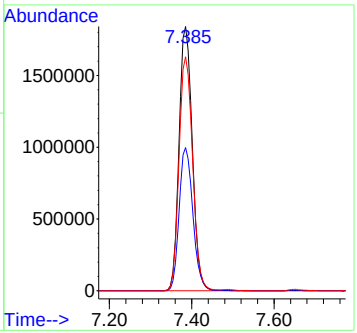


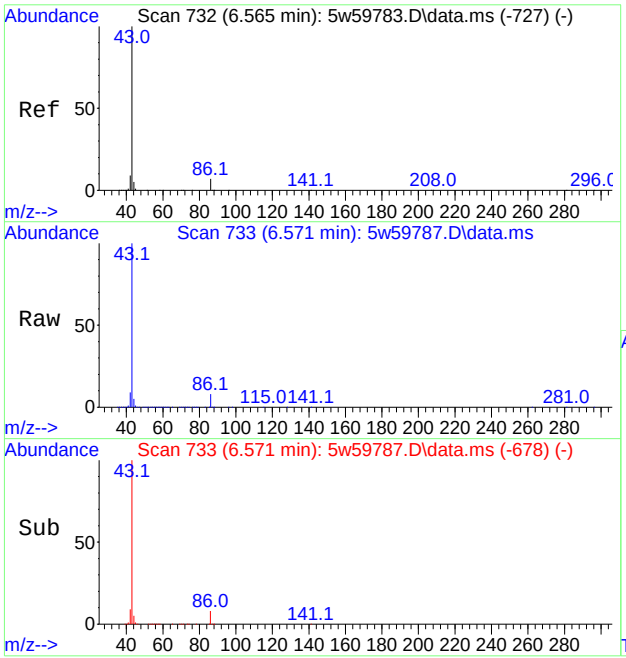


#38
HEXANE
Concen: 58.34 PPBV
RT: 7.385 min Scan# 866
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 4098725

Ion	Ratio	Lower	Upper
57	100		
56	56.6	25.9	85.9
41	91.2	74.7	134.7

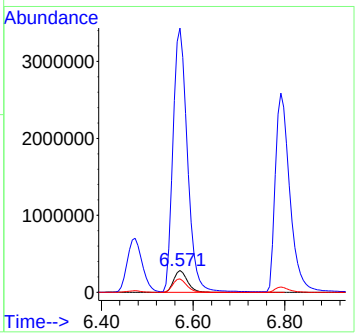


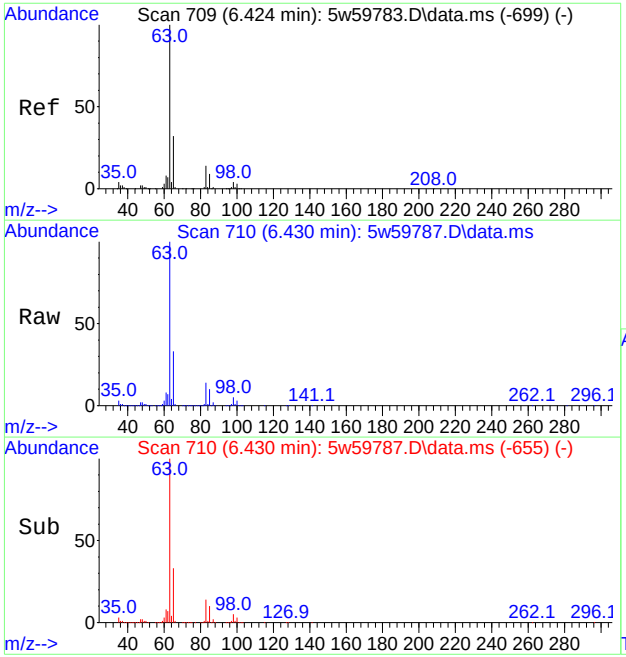


#39
VINYL ACETATE
Concen: 69.16 PPBV
RT: 6.571 min Scan# 733
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 86 Resp: 595335

Ion	Ratio	Lower	Upper
86	100		
43	1251.0	1379.7	1439.7#
44	62.3	36.9	96.9

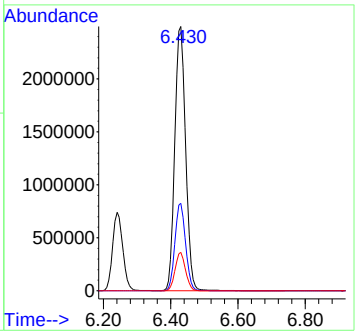


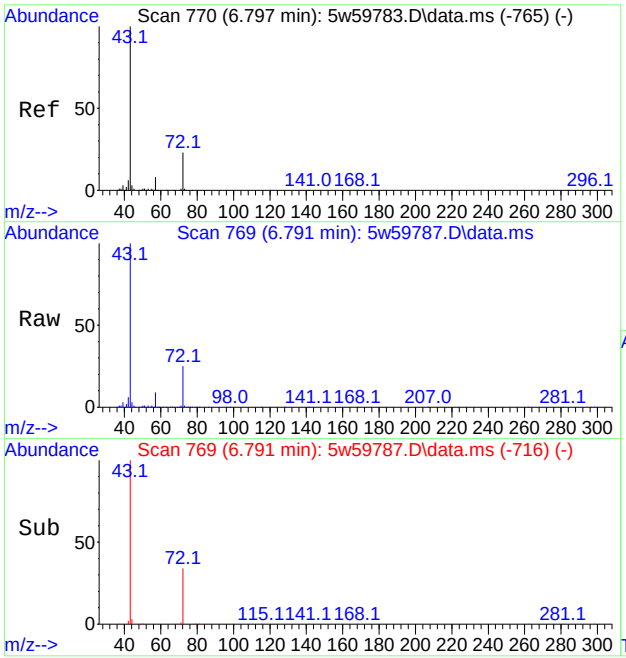


#40
1,1-DICHLOROETHANE
Concen: 63.37 PPBV
RT: 6.430 min Scan# 710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 5580661

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.7	61.7
83	14.0	0.0	43.5

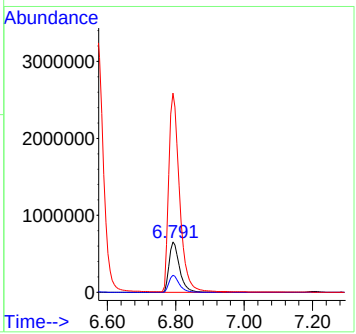


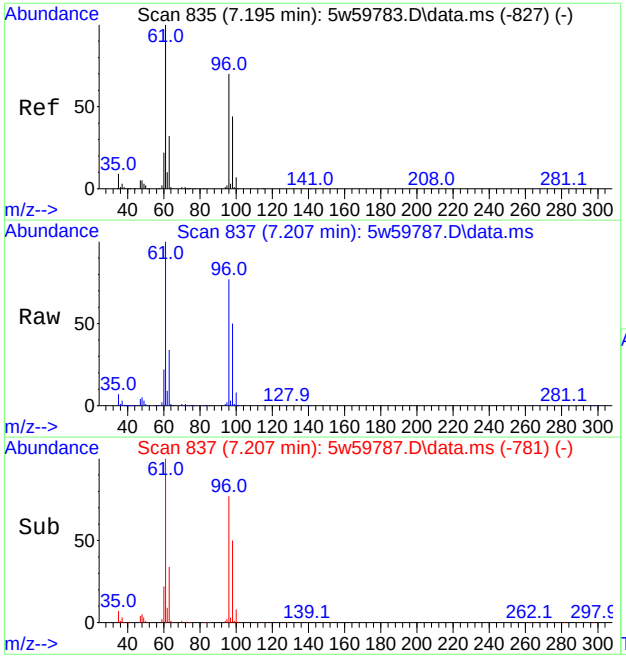


#41
METHYL ETHYL KETONE
Concen: 68.19 PPBV
RT: 6.791 min Scan# 769
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 72 Resp: 1403846

Ion	Ratio	Lower	Upper
72	100		
57	34.0	4.8	64.8
43	394.5	415.9	475.9#

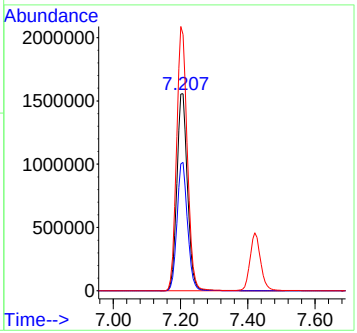


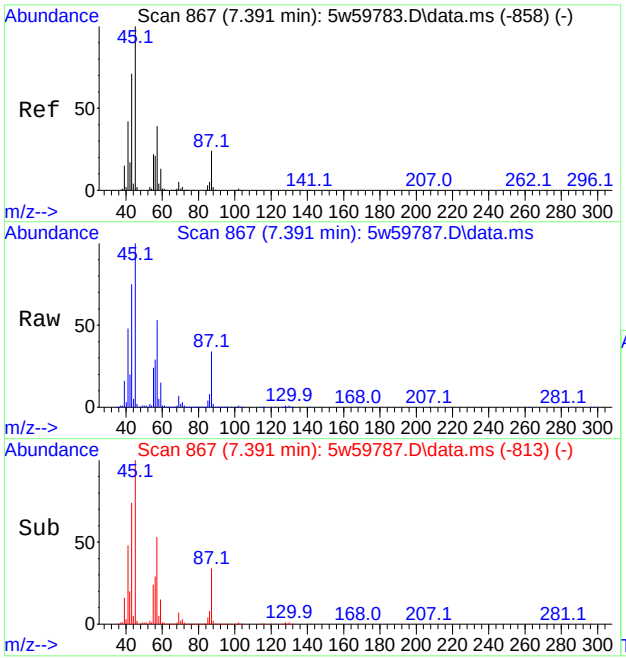


#42
cis-1,2-DICHLOROETHYLENE
Concen: 66.53 PPBV
RT: 7.207 min Scan# 837
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 96 Resp: 3406006

Ion	Ratio	Lower	Upper
96	100		
98	64.6	34.0	94.0
61	134.9	111.5	171.5

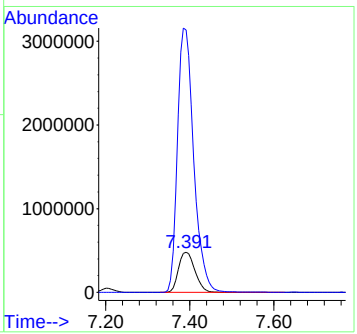


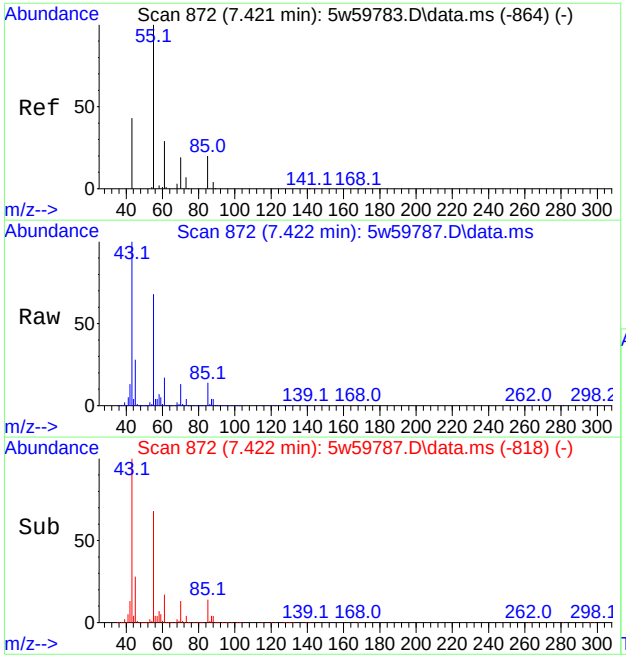


#43
DIISOPROPYL ETHER
Concen: 59.80 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 59 Resp: 1304563

Ion	Ratio	Lower	Upper
59	100		
45	649.0	720.9	780.9#

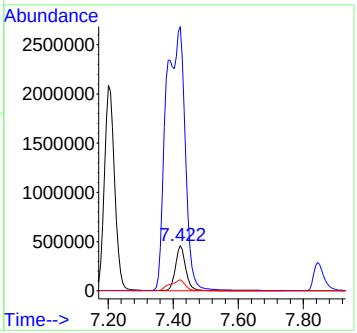


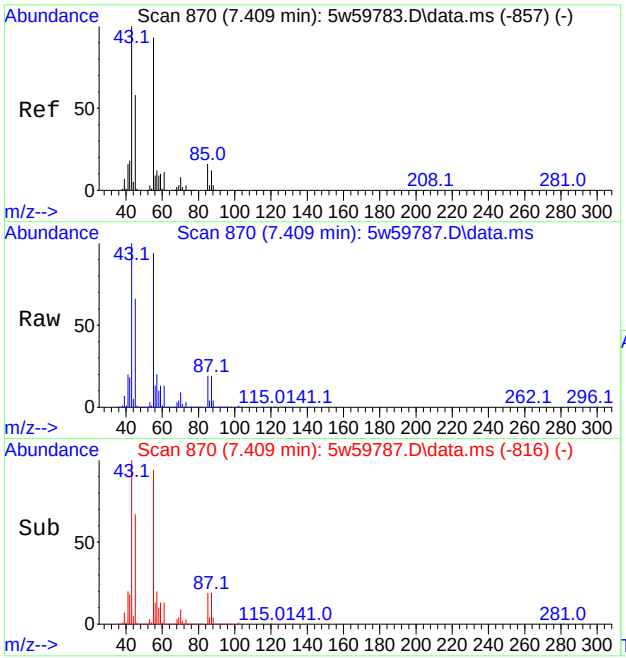


#44
ETHYL ACETATE
Concen: 62.87 PPBV m
RT: 7.422 min Scan# 872
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 61 Resp: 1009100

Ion	Ratio	Lower	Upper
61	100		
43	545.0	560.5	620.5#
88	36.8	4.5	64.5

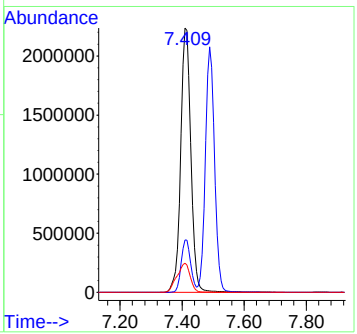


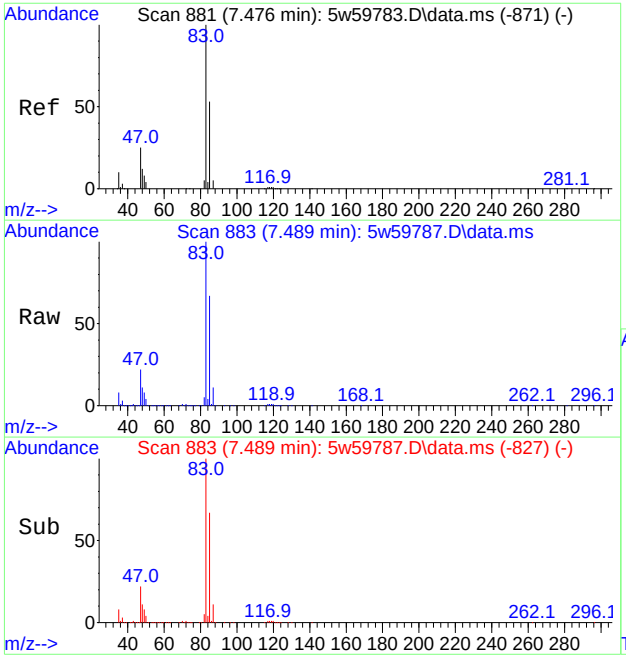


#45
METHYL ACRYLATE
Concen: 59.04 PPBV
RT: 7.409 min Scan# 870
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 5147084

Ion	Ratio	Lower	Upper
55	100		
85	18.4	10.9	20.3
58	14.2	9.4	17.6

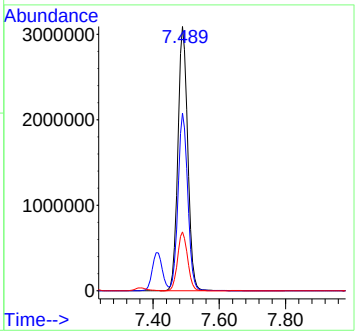


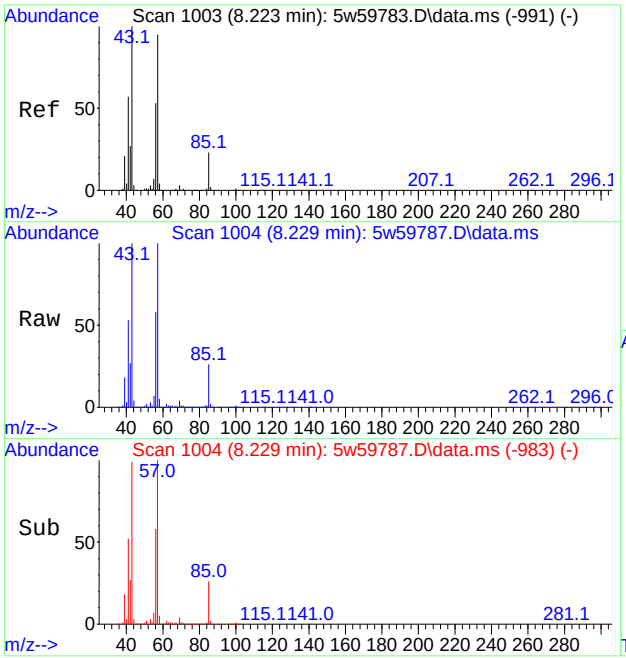


#46
CHLOROFORM
Concen: 62.45 PPBV
RT: 7.489 min Scan# 883
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 6393103

Ion	Ratio	Lower	Upper
83	100		
85	66.7	35.6	95.6
47	22.7	0.0	55.2

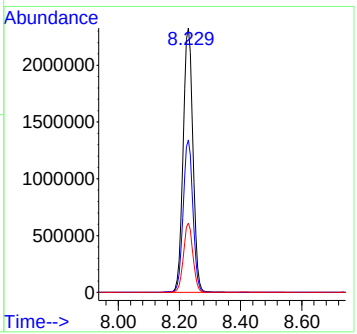


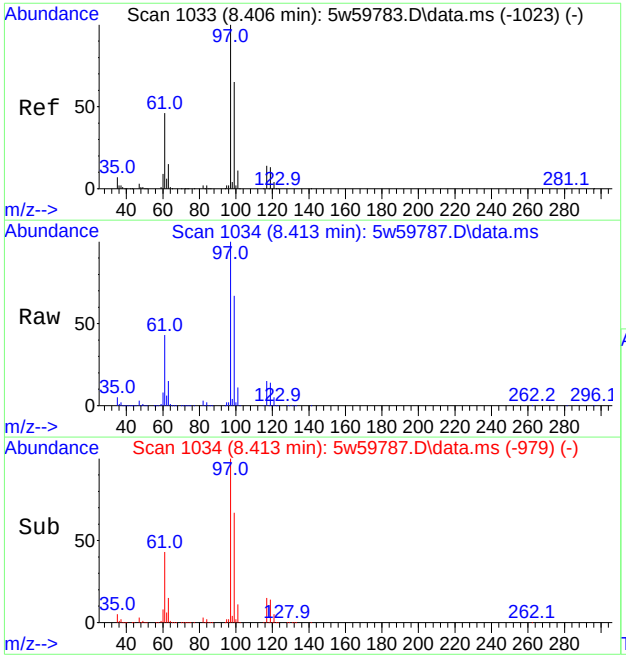


#47
2,4-DIMETHYLPENTANE
Concen: 62.87 PPBV
RT: 8.229 min Scan# 1004
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp: 5181431

Ion	Ratio	Lower	Upper
57	100		
56	57.5	26.5	86.5
85	25.4	0.0	53.8

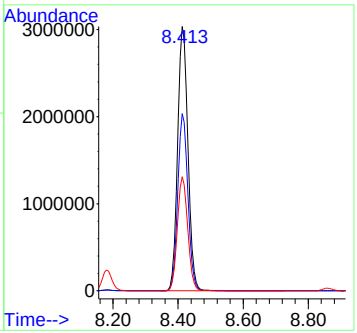


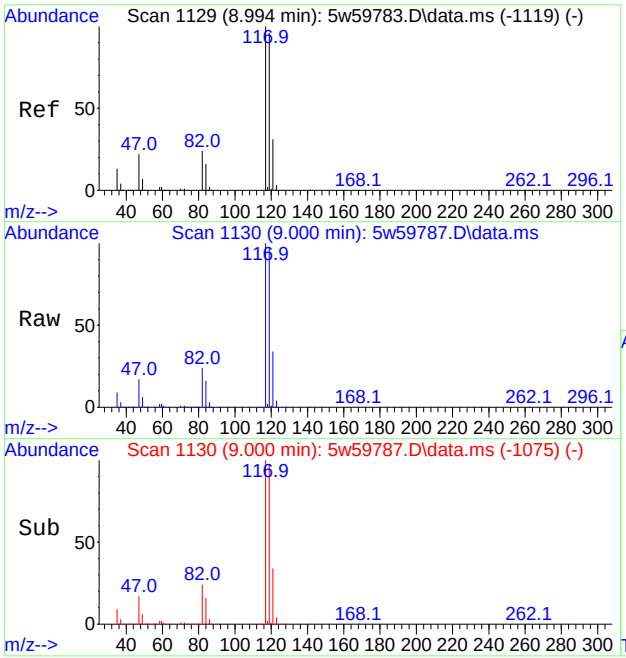


#48
1,1,1-TRICHLOROETHANE
Concen: 62.23 PPBV
RT: 8.413 min Scan# 1034
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 97 Resp: 6744194

Ion	Ratio	Lower	Upper
97	100		
99	66.0	34.8	94.8
61	43.4	15.8	75.8

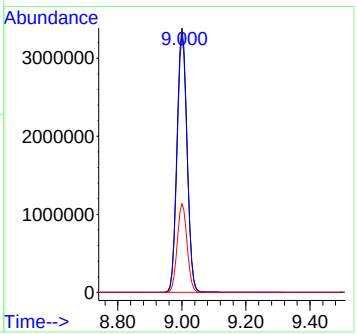


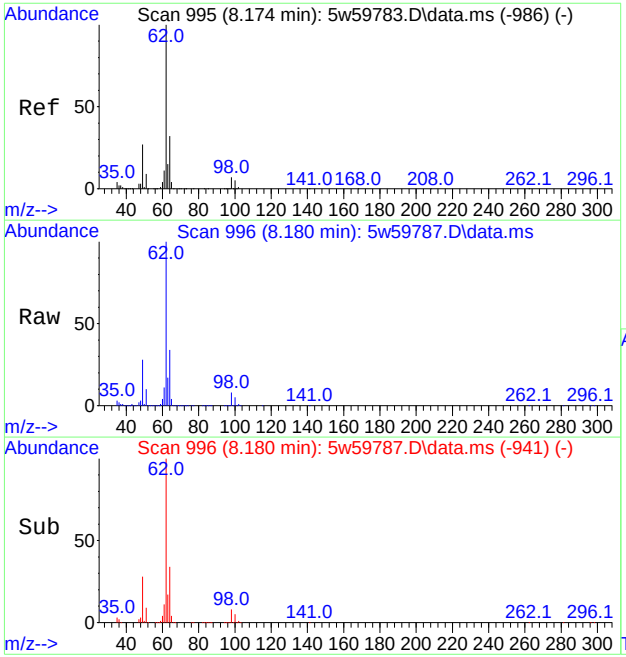


#49
CARBON TETRACHLORIDE
Concen: 61.67 PPBV
RT: 9.000 min Scan# 1130
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 7391895

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.9	126.9
121	32.8	1.3	61.3

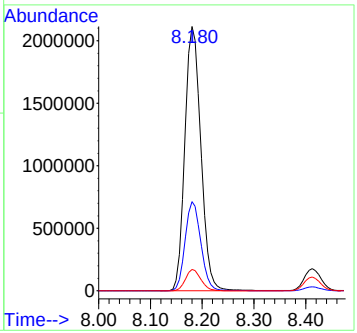


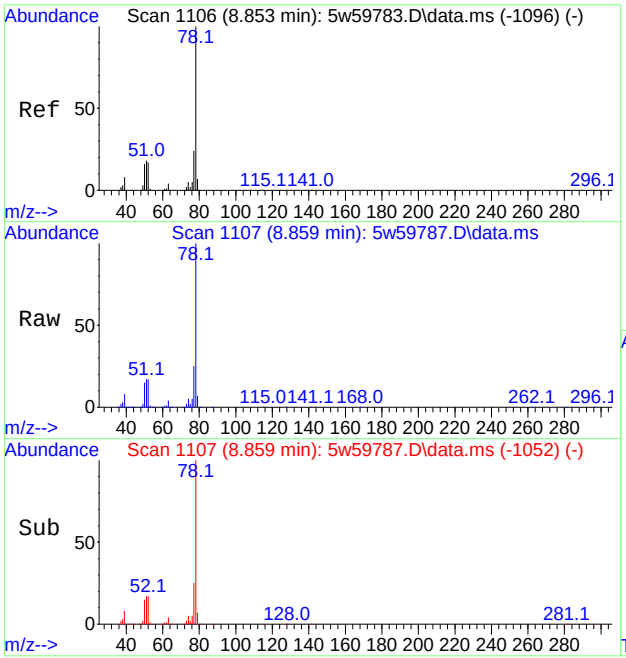


#50
1,2-DICHLOROETHANE
Concen: 62.85 PPBV
RT: 8.180 min Scan# 996
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 62 Resp: 4560398

Ion	Ratio	Lower	Upper
62	100		
64	33.2	2.3	62.3
98	7.7	0.0	36.9

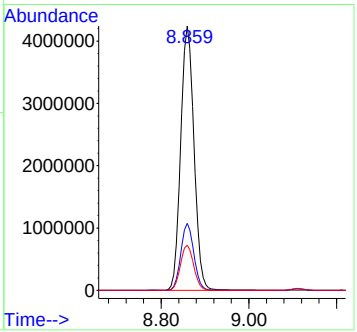


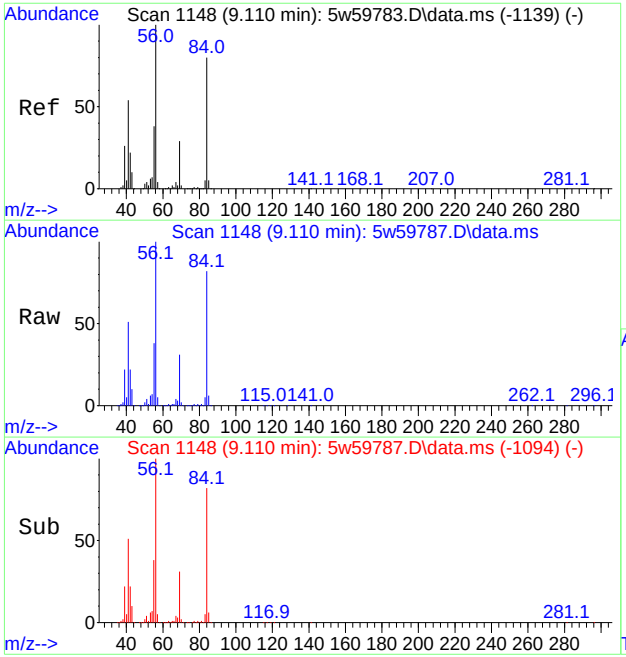


#52
BENZENE
Concen: 67.41 PPBV
RT: 8.859 min Scan# 1107
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 78 Resp: 8949189

Ion	Ratio	Lower	Upper
78	100		
77	24.7	0.0	53.8
52	17.1	0.0	46.9

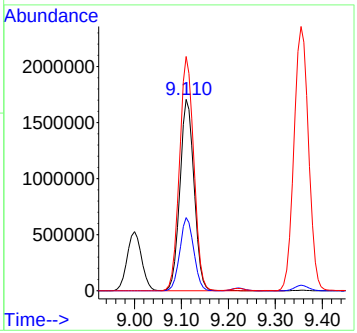


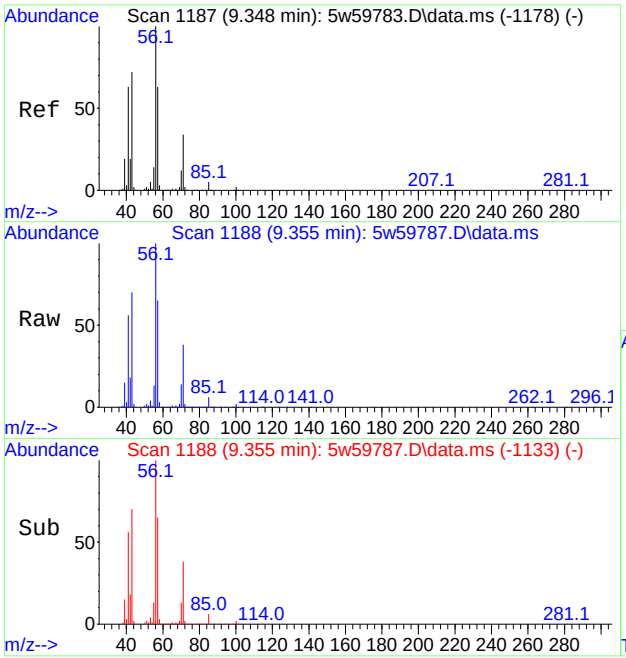


#53
CYCLOHEXANE
Concen: 67.59 PPBV
RT: 9.110 min Scan# 1148
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 84 Resp: 3590293

Ion	Ratio	Lower	Upper
84	100		
69	37.6	6.9	66.9
56	123.7	98.2	158.2

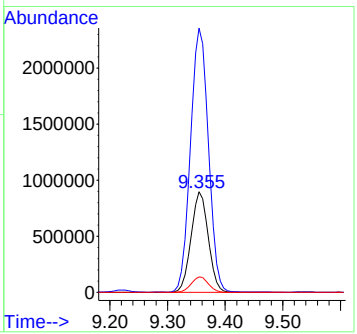


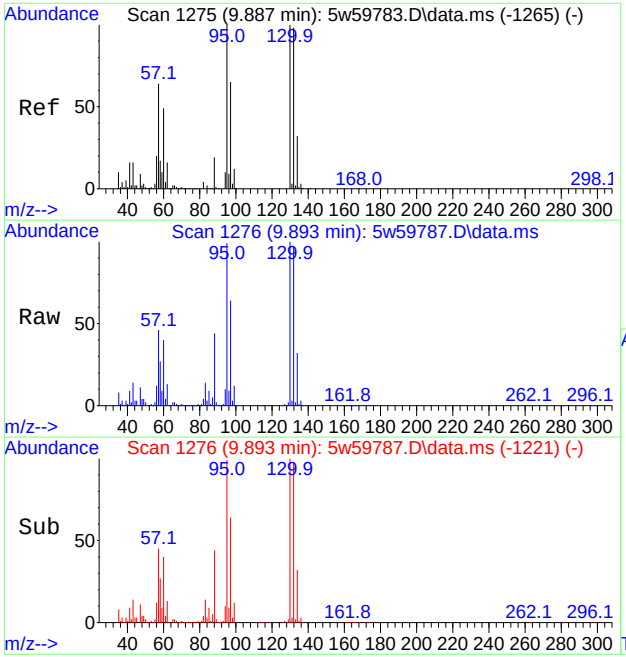


#54
2,3-DIMETHYLPENTANE
Concen: 67.86 PPBV
RT: 9.355 min Scan# 1188
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 71 Resp: 1853301

Ion	Ratio	Lower	Upper
71	100		
56	275.2	264.6	324.6
85	15.5	0.0	45.3

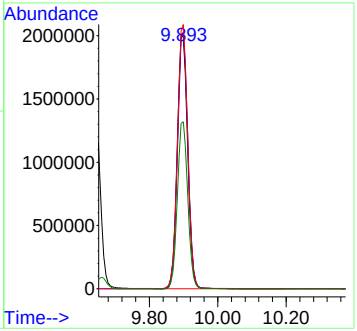


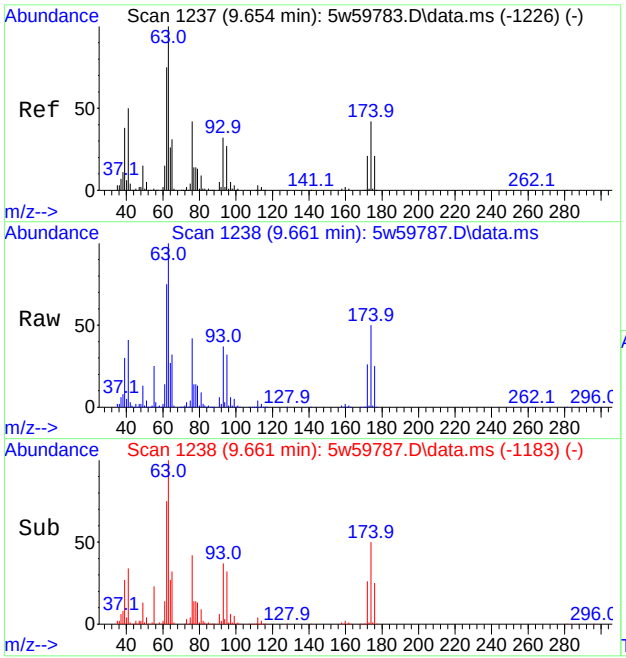


#55
TRICHLOROETHYLENE
Concen: 61.05 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 95 Resp: 4247994

Ion	Ratio	Lower	Upper
95	100		
132	100.4	69.0	129.0
130	103.4	70.6	130.6
97	65.6	34.6	94.6

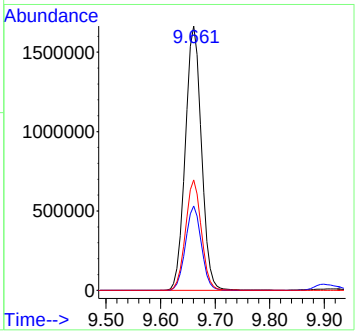


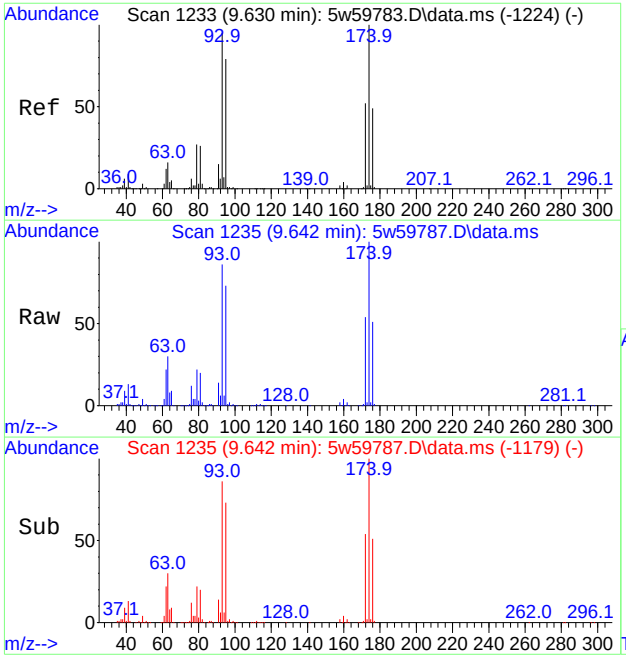


#56
1,2-DICHLOROPROPANE
Concen: 61.24 PPBV
RT: 9.661 min Scan# 1238
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 63 Resp: 3414269

Ion	Ratio	Lower	Upper
63	100		
65	31.5	0.5	60.5
76	41.1	11.5	71.5

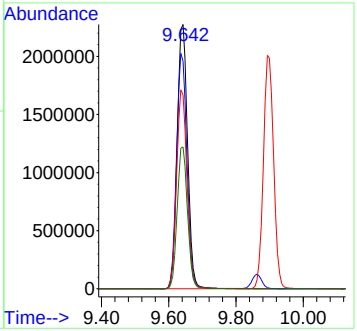


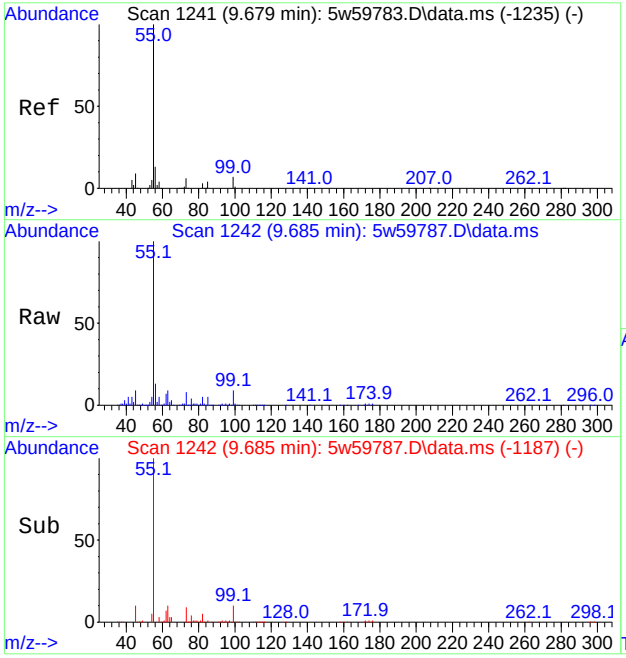


#57
DIBROMOMETHANE
Concen: 64.66 PPBV
RT: 9.642 min Scan# 1235
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:174 Resp: 4863346

Ion	Ratio	Lower	Upper
174	100		
93	89.4	65.0	120.6
95	75.5	54.5	101.1
172	53.4	36.3	67.5

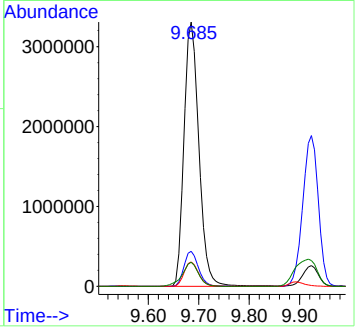


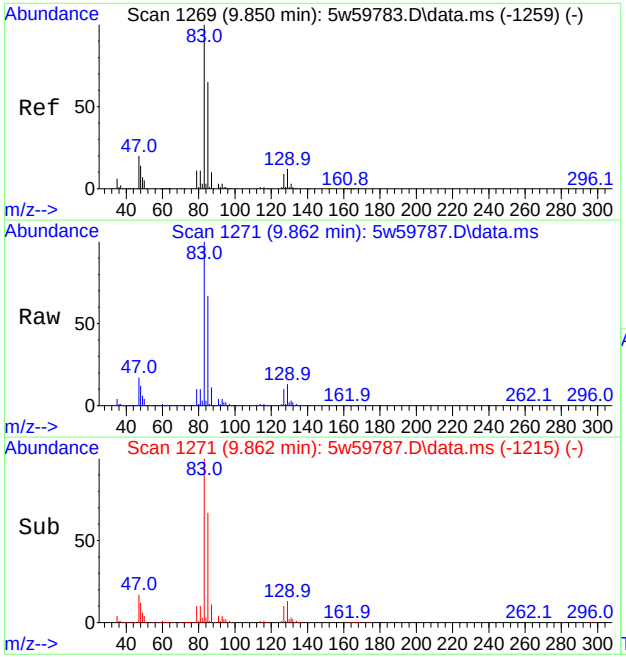


#58
ETHYL ACRYLATE
Concen: 63.67 PPBV
RT: 9.685 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 55 Resp: 6797917

Ion	Ratio	Lower	Upper
55	100		
56	12.9	8.6	16.0
45	9.0	6.6	12.2
99	10.0	6.4	12.0

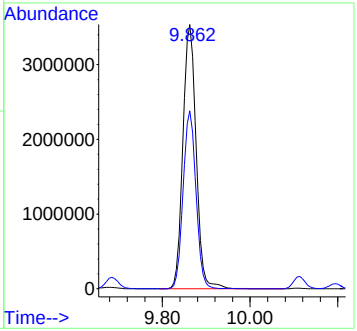


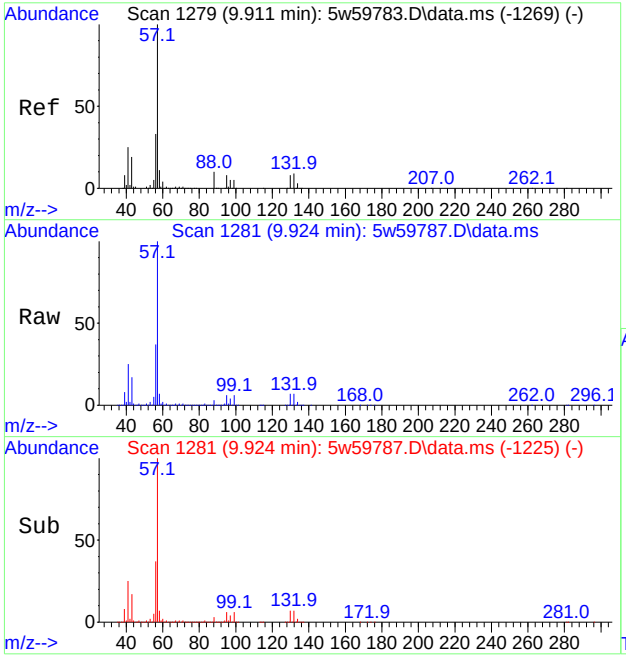


#59
BROMODICHLOROMETHANE
Concen: 61.30 PPBV
RT: 9.862 min Scan# 1271
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7417663

Ion	Ratio	Lower	Upper
83	100		
85	65.4	33.4	93.4

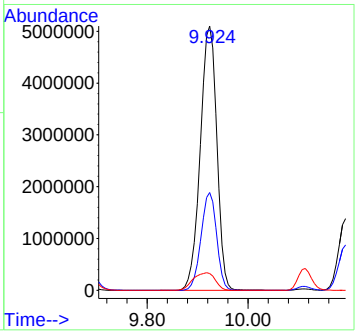


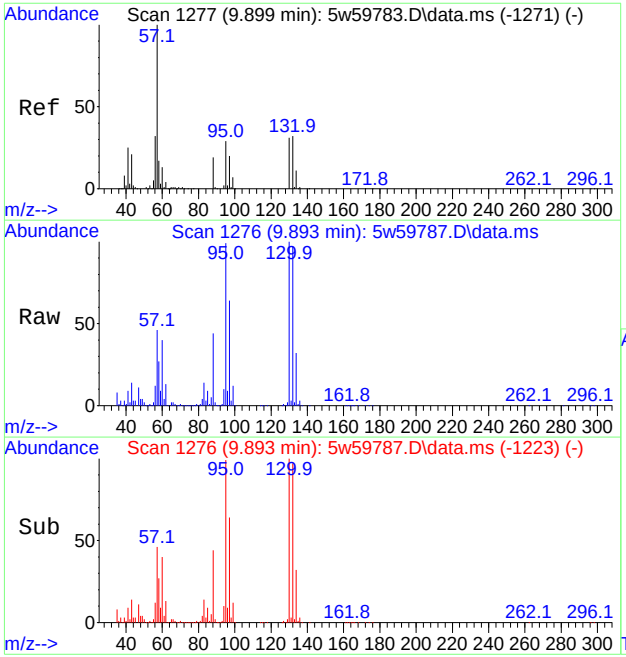


#60
2,2,4-TRIMETHYLPENTANE
Concen: 56.13 PPBV
RT: 9.924 min Scan# 1281
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 57 Resp:11658719

Ion	Ratio	Lower	Upper
57	100		
56	34.7	2.5	62.5
99	8.9	0.0	37.3

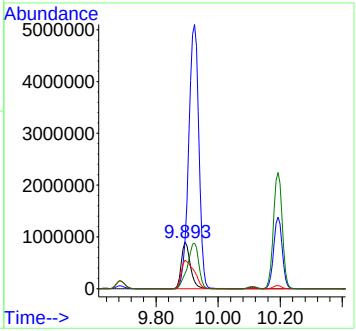


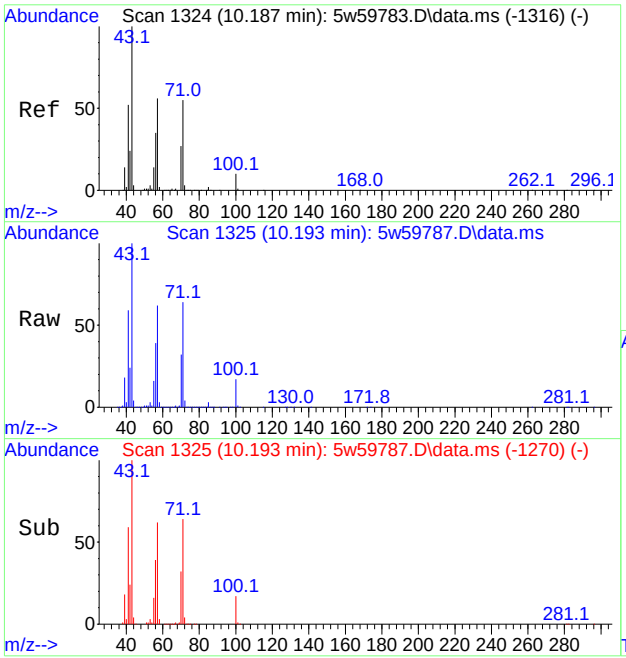


#61
1,4-DIOXANE
Concen: 60.00 PPBV
RT: 9.893 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 88 Resp: 1844331

Ion	Ratio	Lower	Upper
88	100		
57	102.5	494.2	554.2#
58	61.2	58.9	118.9
43	32.1	78.3	138.3#

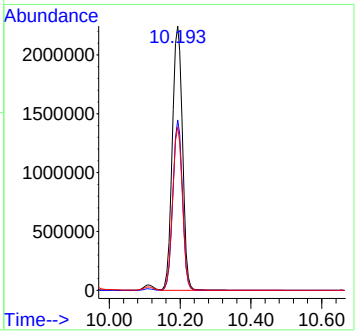


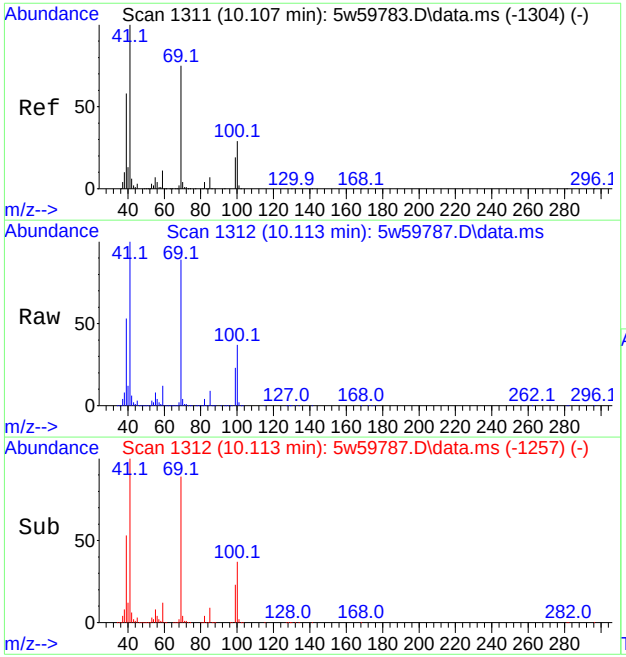


#62
HEPTANE
Concen: 63.31 PPBV
RT: 10.193 min Scan# 1325
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 4474034

Ion	Ratio	Lower	Upper
43	100		
71	61.1	24.5	84.5
57	59.9	26.2	86.2

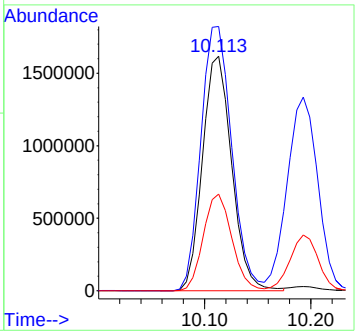


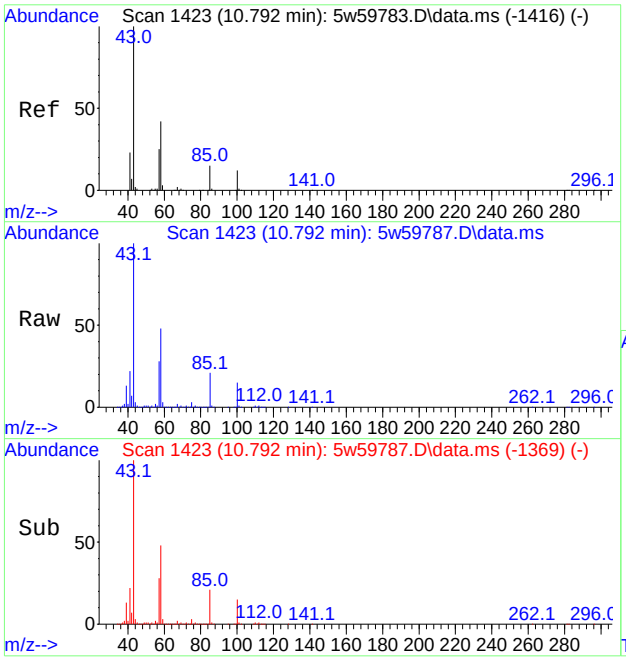


#63
METHYL METHACRYLATE
Concen: 67.79 PPBV
RT: 10.113 min Scan# 1312
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 3101307

Ion	Ratio	Lower	Upper
69	100		
41	118.8	95.3	155.3
100	40.2	6.3	66.3

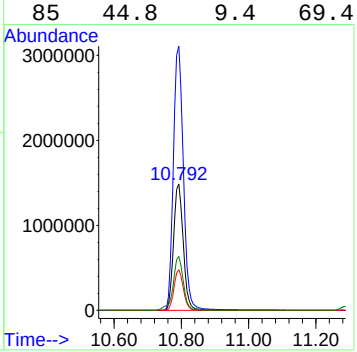


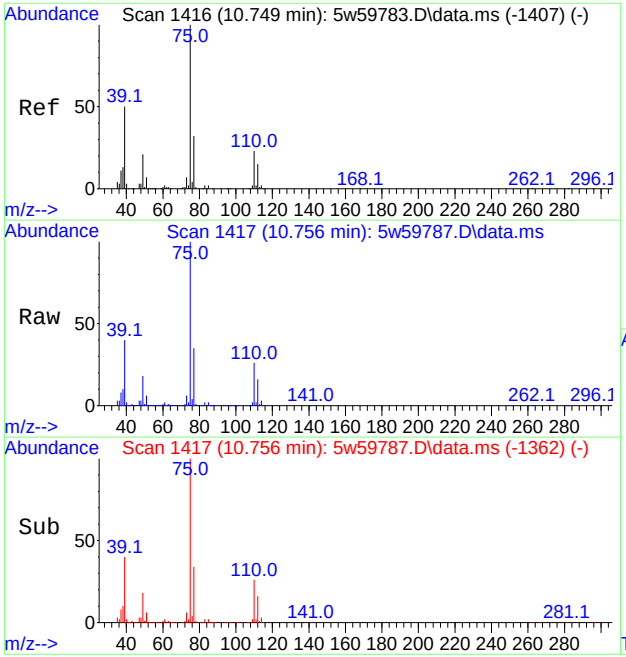


#64
METHYL ISOBUTYL KETONE
Concen: 66.58 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 2975343

Ion	Ratio	Lower	Upper
58	100		
43	216.5	209.2	269.2
100	31.2	0.0	58.8
85	44.8	9.4	69.4

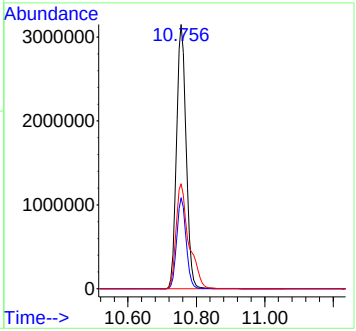


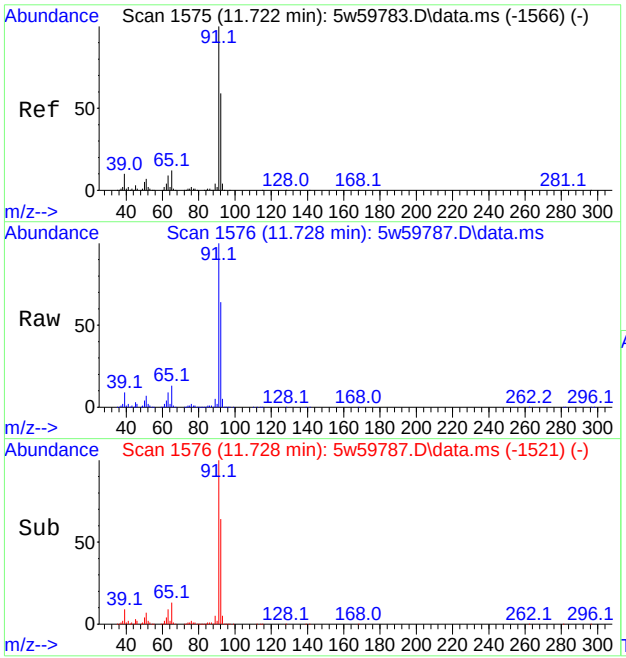


#65
cis-1,3-DICHLOROPROPENE
Concen: 66.43 PPBV
RT: 10.756 min Scan# 1417
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6183357

Ion	Ratio	Lower	Upper
75	100		
77	33.7	2.2	62.2
39	53.0	34.3	94.3

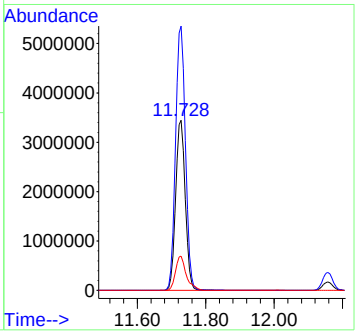


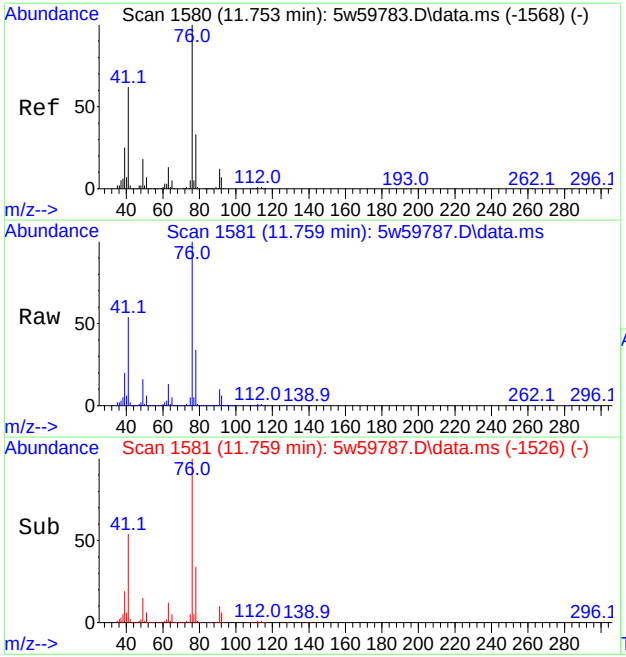


#66
TOLUENE
Concen: 65.67 PPBV
RT: 11.728 min Scan# 1576
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 92 Resp: 6766589

Ion	Ratio	Lower	Upper
92	100		
91	160.0	140.1	200.1
65	22.6	0.0	53.1

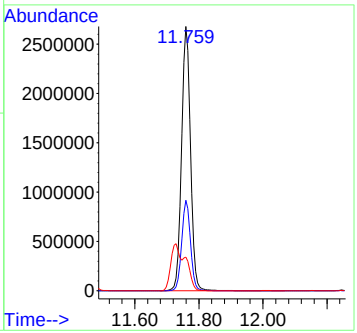


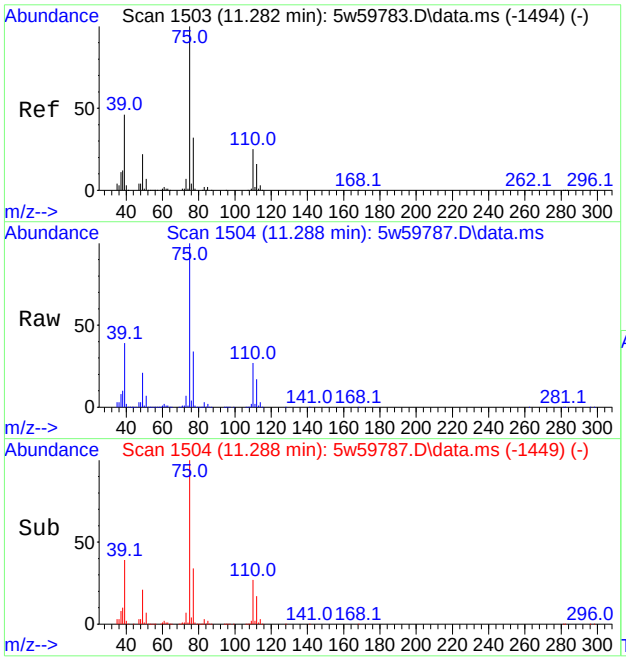


#67
1,3-DICHLOROPROPANE
Concen: 63.52 PPBV m
RT: 11.759 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 76 Resp: 5183507

Ion	Ratio	Lower	Upper
76	100		
78	33.7	23.2	43.0
63	12.1	7.1	13.1

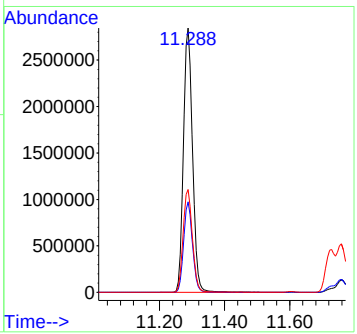


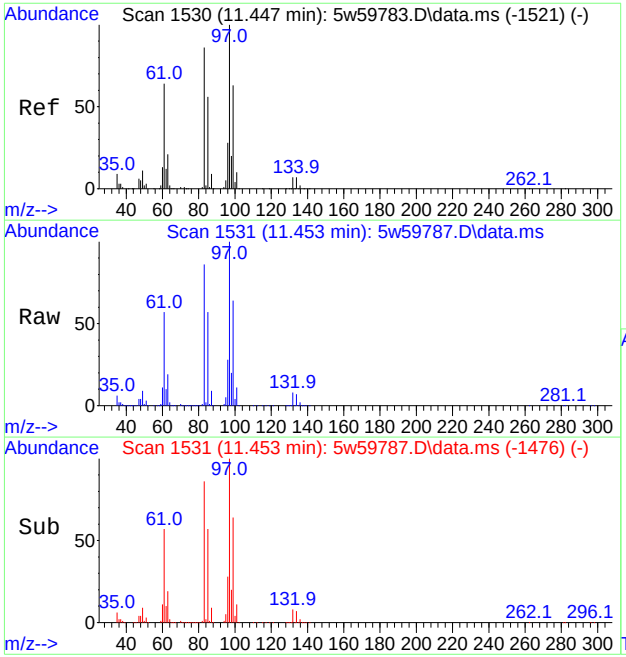


#68
trans-1,3-DICHLOROPROPENE
Concen: 63.59 PPBV
RT: 11.288 min Scan# 1504
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 5535715

Ion	Ratio	Lower	Upper
75	100		
77	33.3	1.6	61.6
39	40.1	16.1	76.1

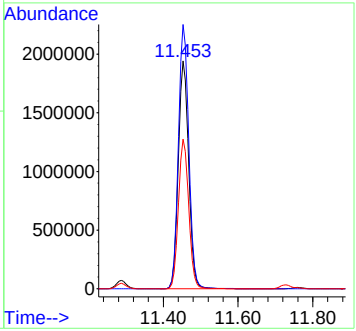


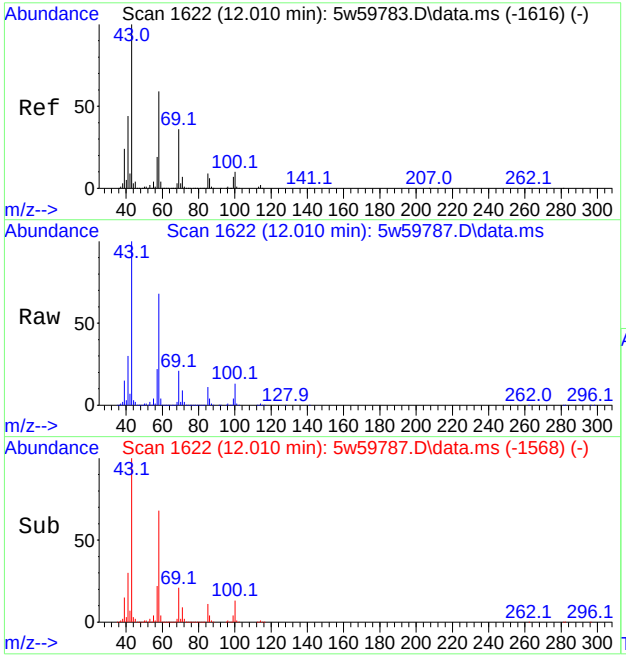


#69
1,1,2-TRICHLOROETHANE
Concen: 66.35 PPBV
RT: 11.453 min Scan# 1531
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 3736885

Ion	Ratio	Lower	Upper
83	100		
97	116.2	86.3	146.3
85	65.4	35.3	95.3

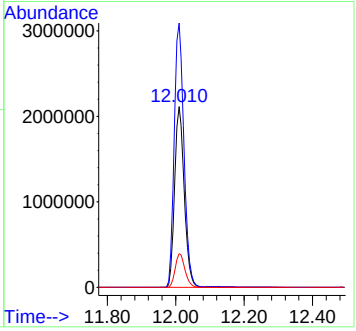


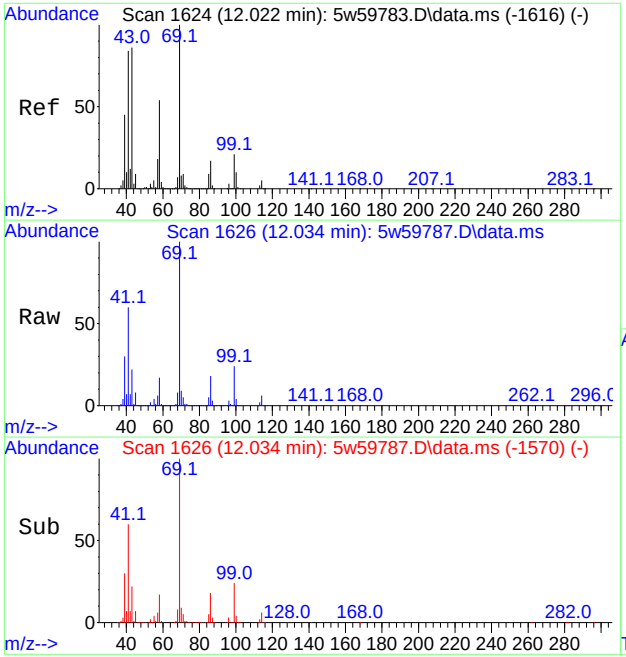


#71
2-HEXANONE
Concen: 54.00 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 58 Resp: 4158676

Ion	Ratio	Lower	Upper
58	100		
43	147.9	137.2	197.2
100	18.9	0.0	46.9

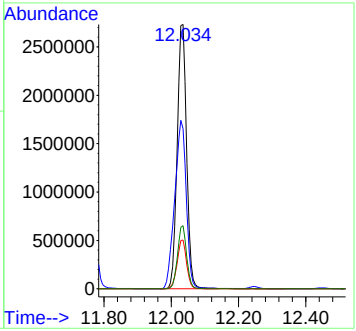


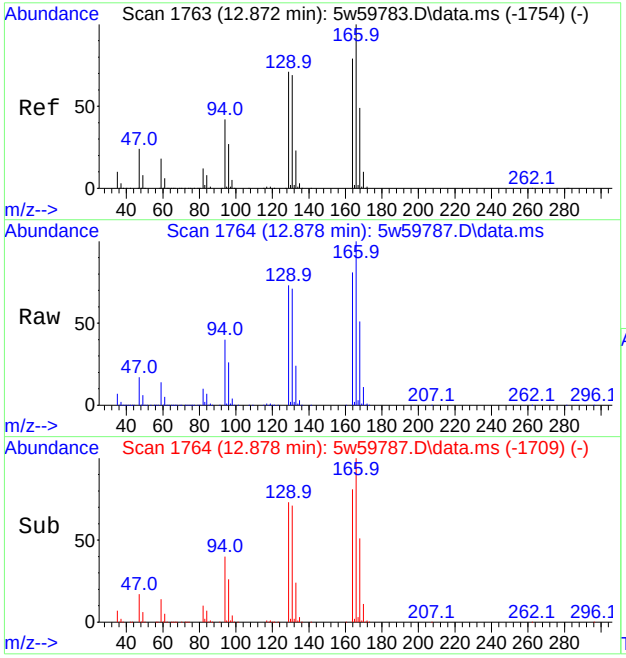


#72
ETHYL METHACRYLATE
Concen: 53.39 PPBV
RT: 12.034 min Scan# 1626
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 69 Resp: 5321053

Ion	Ratio	Lower	Upper
69	100		
41	77.8	64.0	119.0
86	18.4	12.0	22.4
99	23.1	15.0	27.8

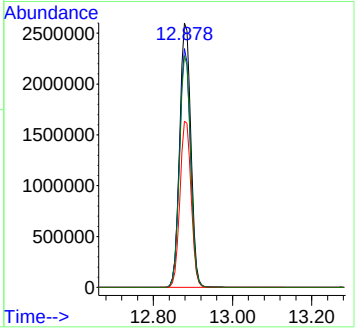


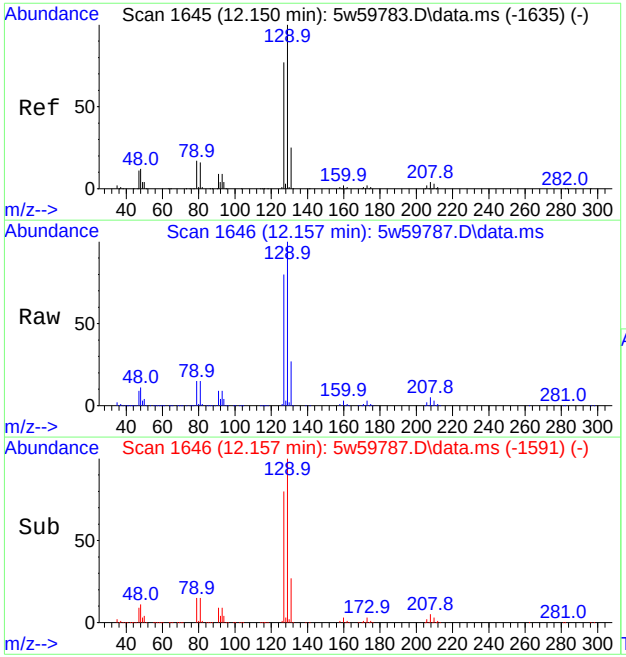


#73
TETRACHLOROETHYLENE
Concen: 56.17 PPBV
RT: 12.878 min Scan# 1764
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:164 Resp: 5112644

Ion	Ratio	Lower	Upper
164	100		
129	89.2	59.7	119.7
168	62.8	32.2	92.2
131	87.3	57.8	117.8

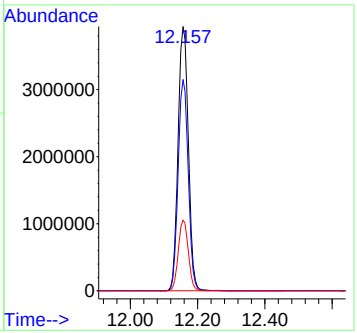


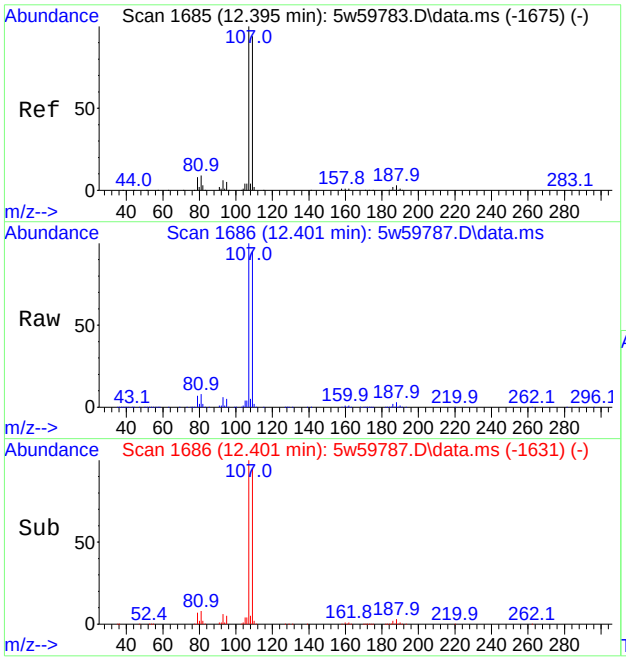


#74
DIBROMOCHLOROMETHANE
Concen: 52.38 PPBV
RT: 12.157 min Scan# 1646
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:129 Resp: 8396348

Ion	Ratio	Lower	Upper
129	100		
127	78.8	47.1	107.1
131	26.1	0.0	54.5

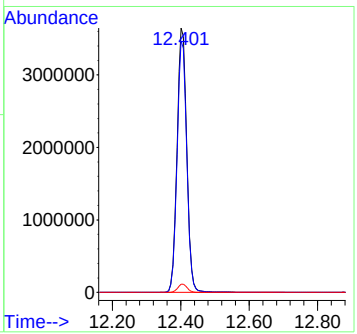


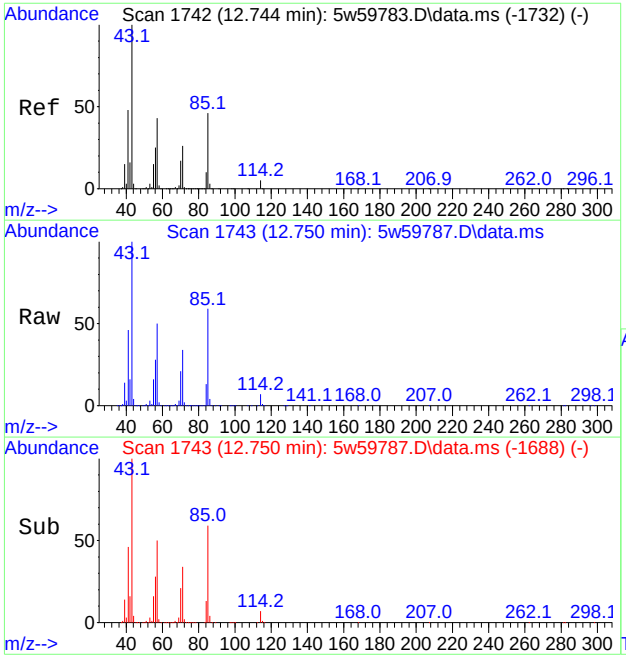


#75
1,2-DIBROMOETHANE
Concen: 57.04 PPBV
RT: 12.401 min Scan# 1686
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:107 Resp: 7189005

Ion	Ratio	Lower	Upper
107	100		
109	95.3	64.8	124.8
188	3.0	0.0	32.8

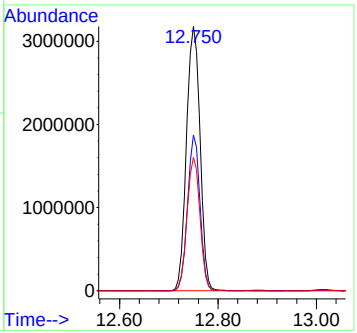


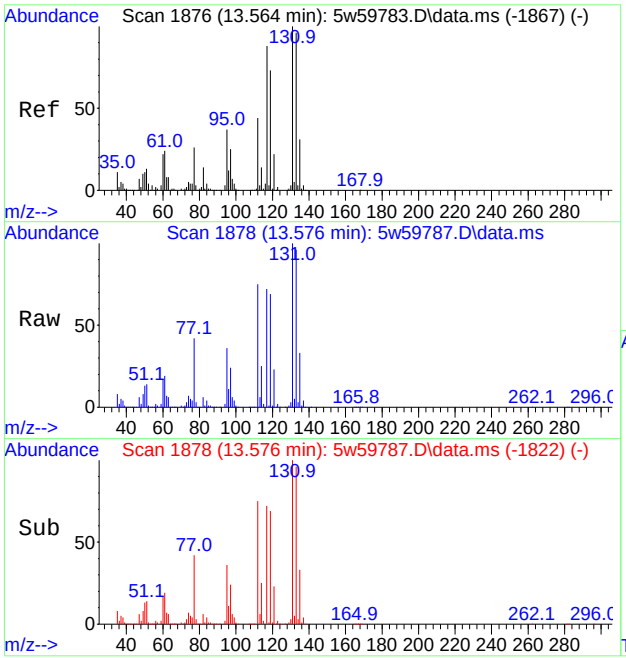


#76
OCTANE
Concen: 51.61 PPBV
RT: 12.750 min Scan# 1743
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 6099138

Ion	Ratio	Lower	Upper
43	100		
85	53.9	14.6	74.6
57	48.0	13.7	73.7

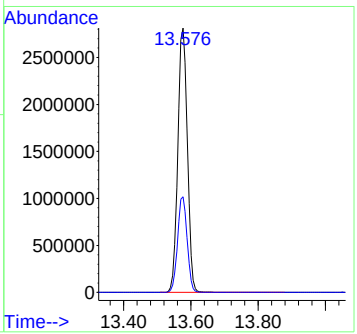


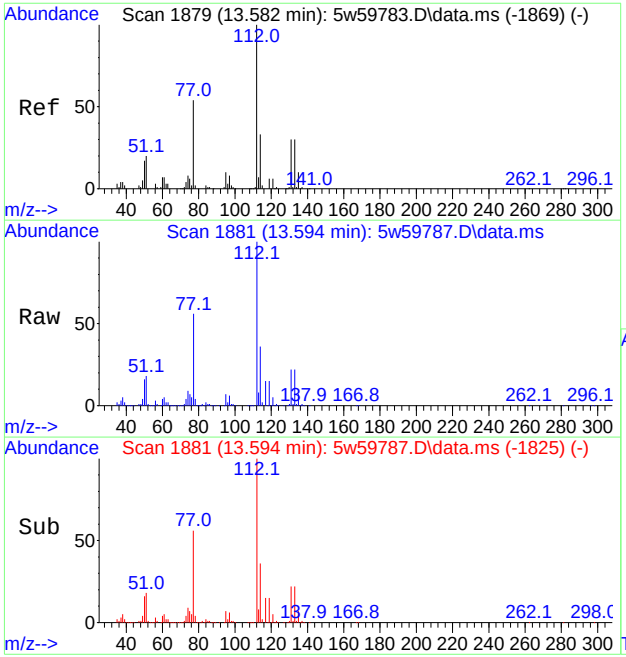


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 54.07 PPBV
RT: 13.576 min Scan# 1878
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:131 Resp: 5539677

Ion	Ratio	Lower	Upper
131	100		
95	36.2	6.5	66.5

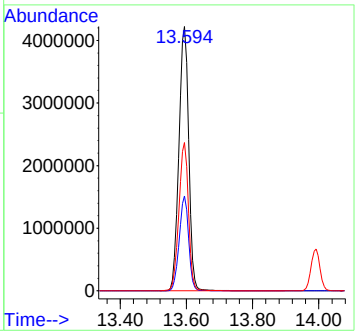


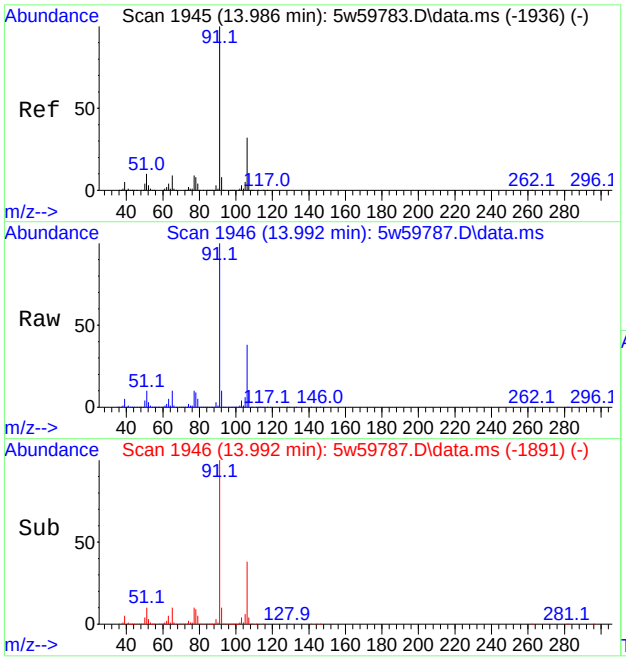


#78
CHLOROBENZENE
Concen: 52.99 PPBV
RT: 13.594 min Scan# 1881
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:112 Resp: 8685700

Ion	Ratio	Lower	Upper
112	100		
114	34.4	2.6	62.6
77	55.0	25.4	85.4

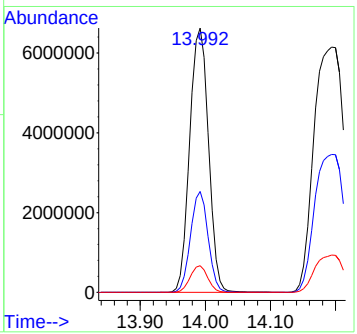


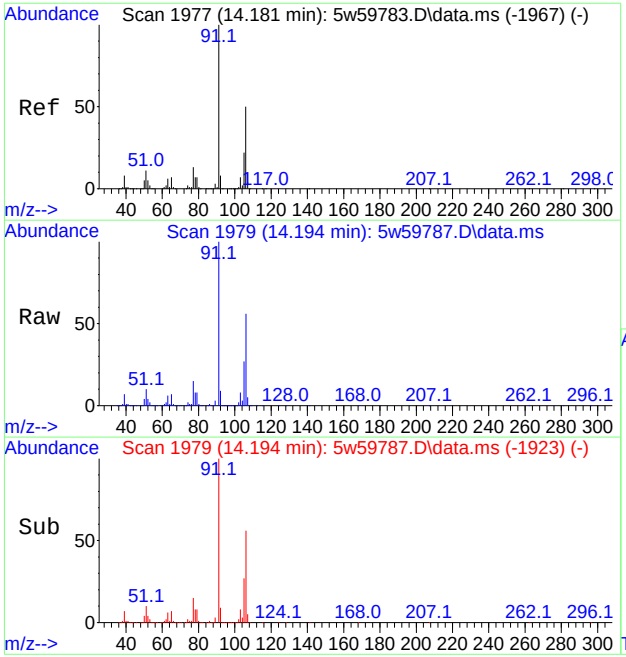


#79
ETHYLBENZENE
Concen: 52.78 PPBV
RT: 13.992 min Scan# 1946
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:13293280

Ion	Ratio	Lower	Upper
91	100		
106	35.6	1.3	61.3
77	9.4	0.0	38.6

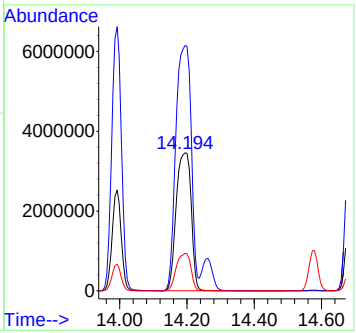


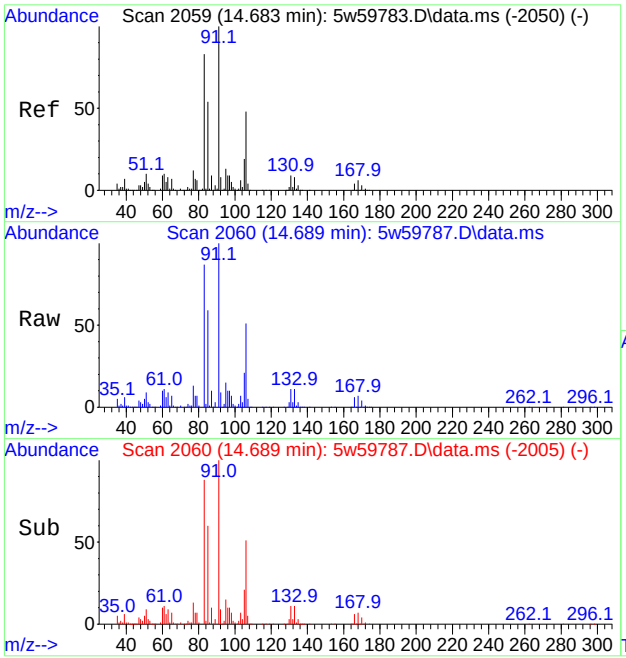


#80
m,p-XYLENE
Concen: 104.01 PPBV
RT: 14.194 min Scan# 1979
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp:10660694

Ion	Ratio	Lower	Upper
106	100		
91	177.8	171.0	231.0
77	27.1	0.0	56.7

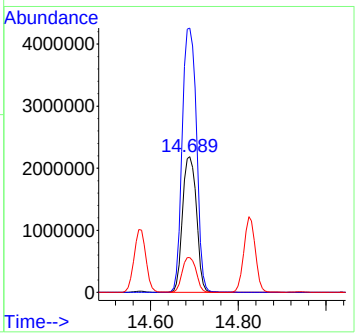


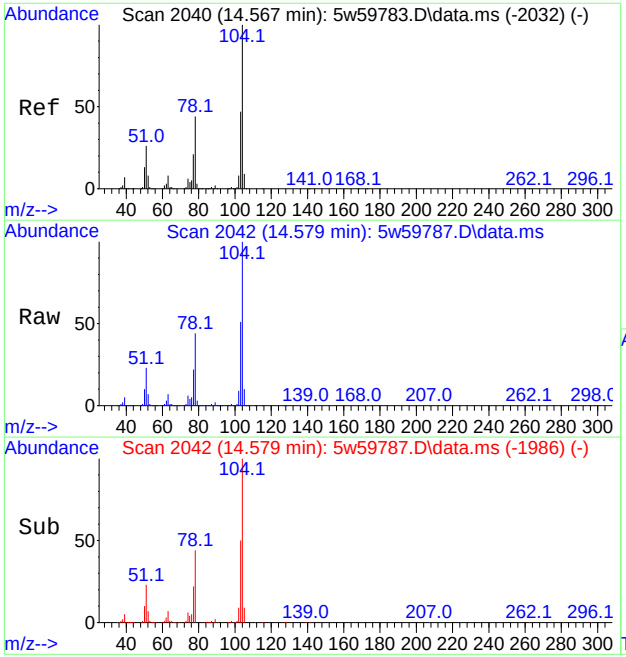


#81
o-XYLENE
Concen: 49.93 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:106 Resp: 4828440

Ion	Ratio	Lower	Upper
106	100		
91	199.8	181.6	241.6
77	25.8	0.0	56.6

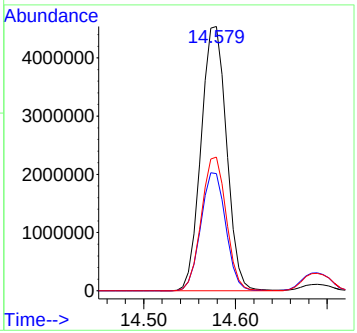


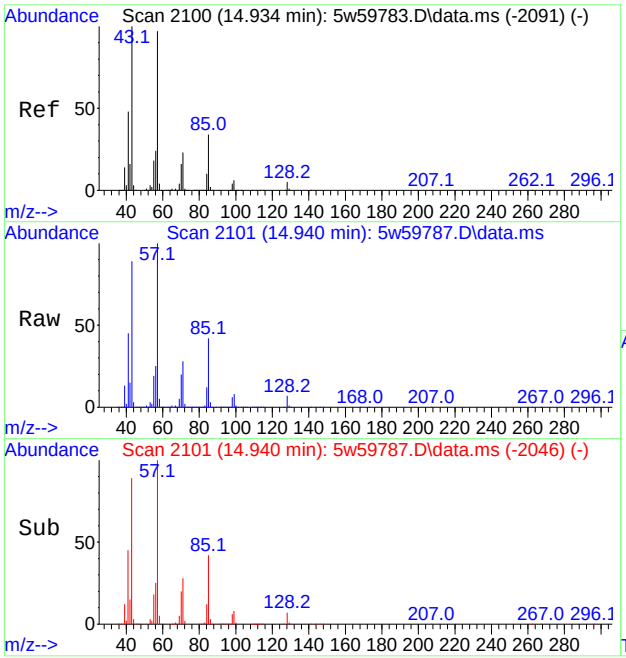


#82
STYRENE
Concen: 56.42 PPBV
RT: 14.579 min Scan# 2042
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:104 Resp: 8801086

Ion	Ratio	Lower	Upper
104	100		
78	43.7	13.3	73.3
103	49.3	17.2	77.2

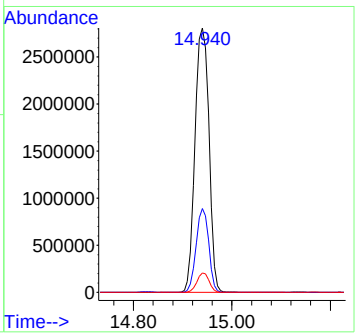


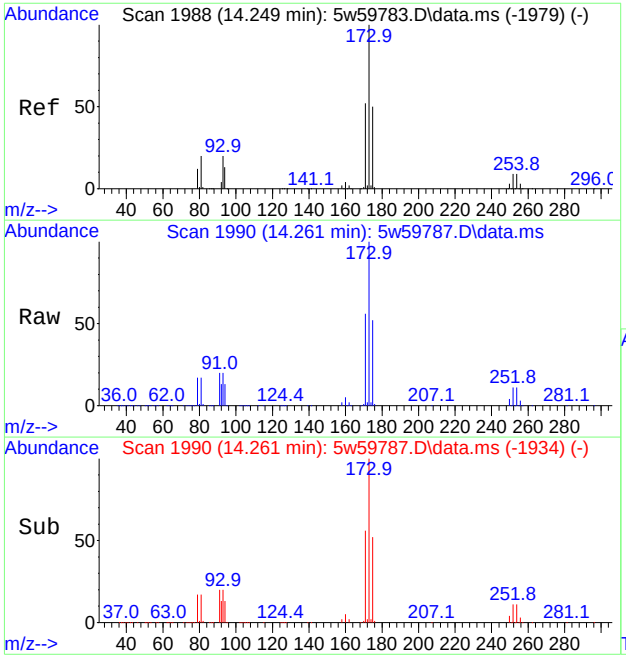


#83
NONANE
Concen: 46.77 PPBV
RT: 14.940 min Scan# 2101
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 43 Resp: 5544485

Ion	Ratio	Lower	Upper
43	100		
71	28.5	0.0	52.7
128	6.4	0.0	34.7

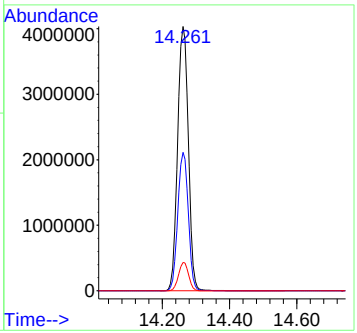


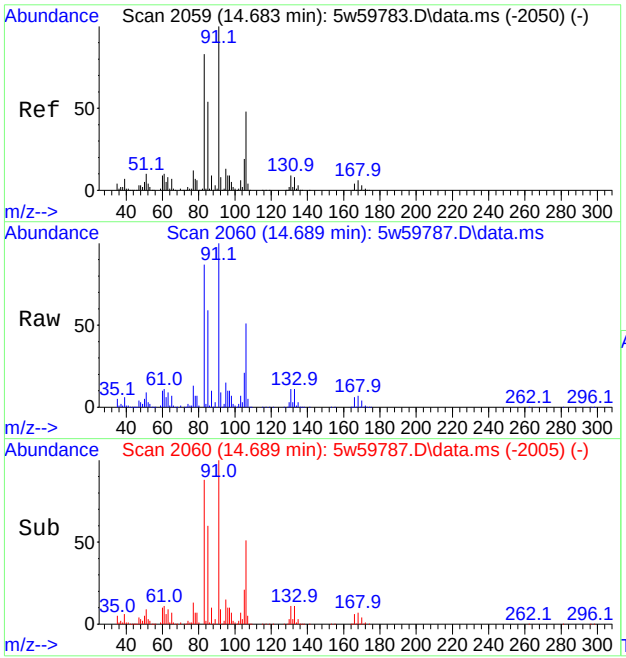


#84
BROMOFORM
Concen: 53.58 PPBV
RT: 14.261 min Scan# 1990
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:173 Resp: 8954982

Ion	Ratio	Lower	Upper
173	100		
175	51.3	19.6	79.6
254	10.1	0.0	39.0

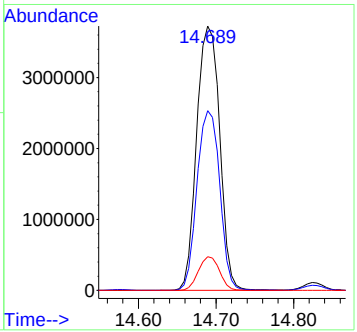


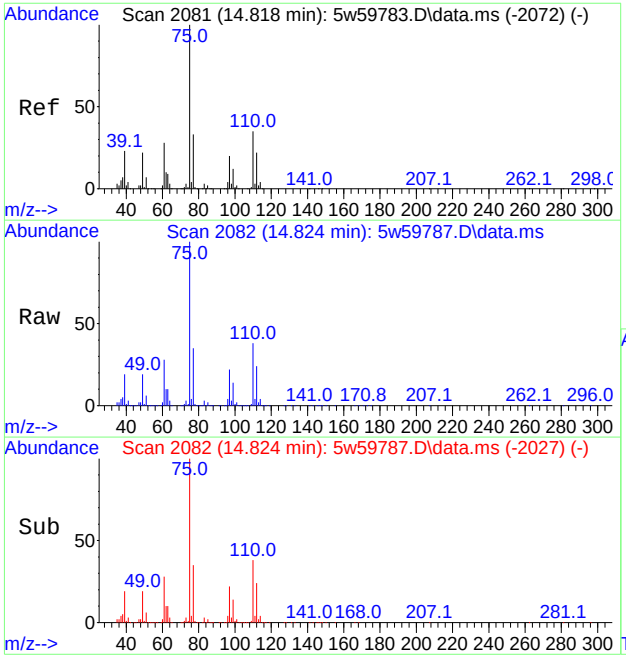


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 46.70 PPBV
RT: 14.689 min Scan# 2060
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 83 Resp: 7680268

Ion	Ratio	Lower	Upper
83	100		
85	67.0	35.2	95.2
131	11.7	0.0	40.3

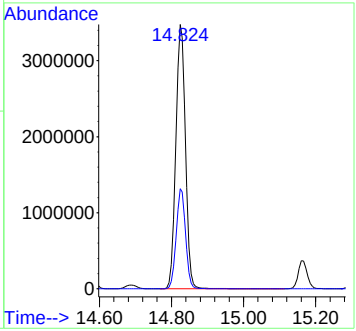


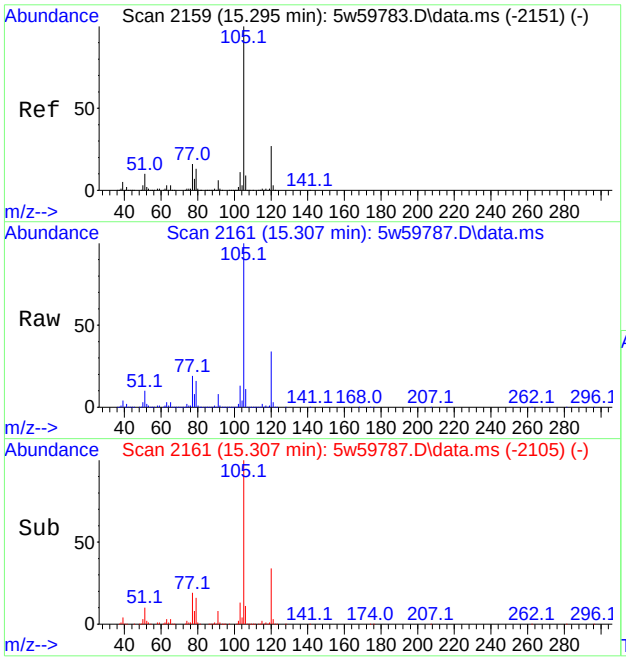


#87
1,2,3-TRICHLOROPROPANE
Concen: 53.62 PPBV
RT: 14.824 min Scan# 2082
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 75 Resp: 6463476

Ion	Ratio	Lower	Upper
75	100		
110	36.9	4.4	64.4

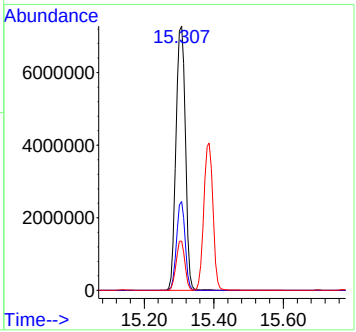


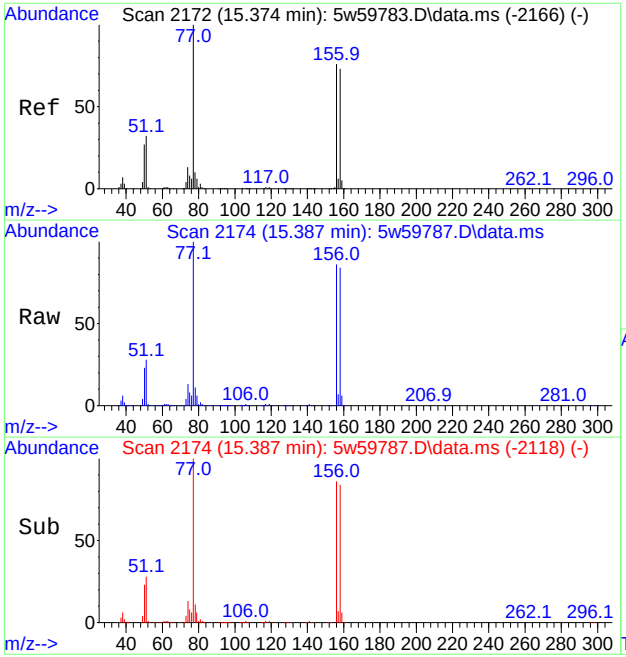


#88
ISOPROPYLBENZENE
Concen: 47.61 PPBV
RT: 15.307 min Scan# 2161
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13782072

Ion	Ratio	Lower	Upper
105	100		
120	30.8	0.0	56.0
77	17.4	0.0	45.6

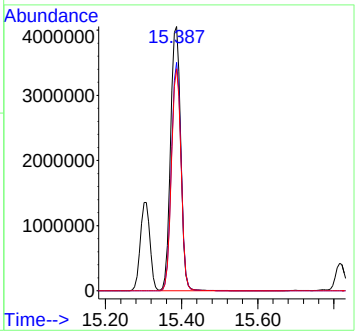


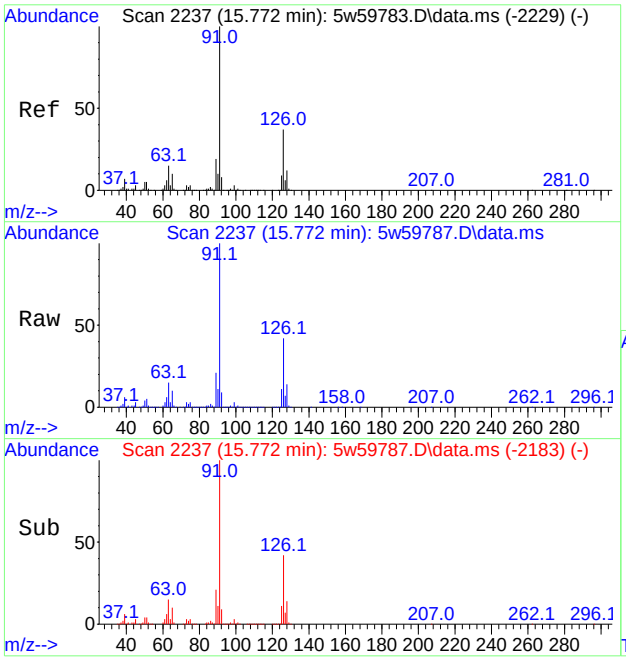


#89
BROMOBENZENE
Concen: 50.72 PPBV
RT: 15.387 min Scan# 2174
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 77 Resp: 7438070

Ion	Ratio	Lower	Upper
77	100		
156	83.1	54.9	101.9
158	80.8	53.5	99.3

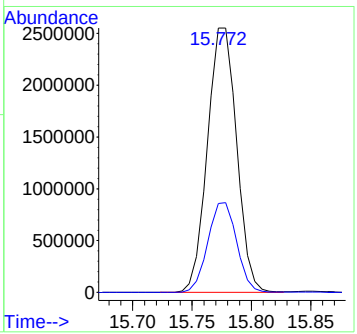


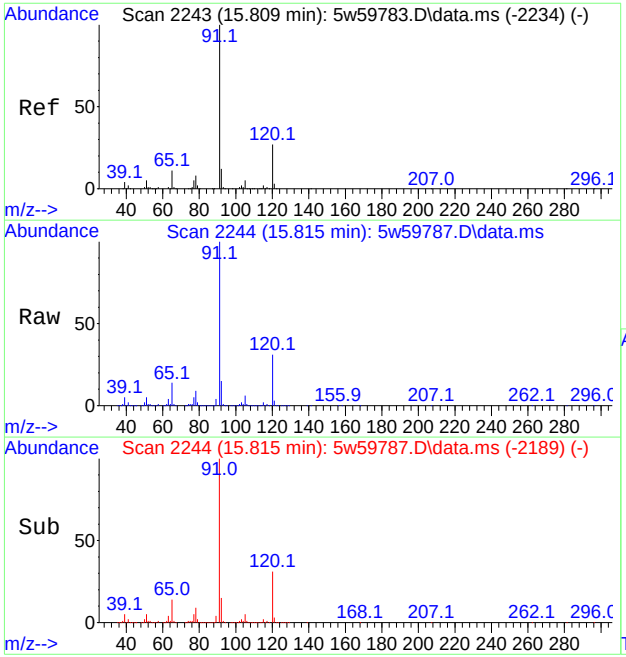


#90
2-CHLOROTOLUENE
Concen: 53.10 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:126 Resp: 4362530

Ion	Ratio	Lower	Upper
126	100		
128	33.5	2.7	62.7

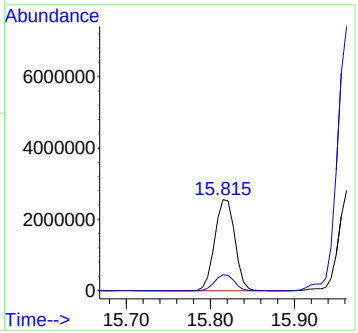


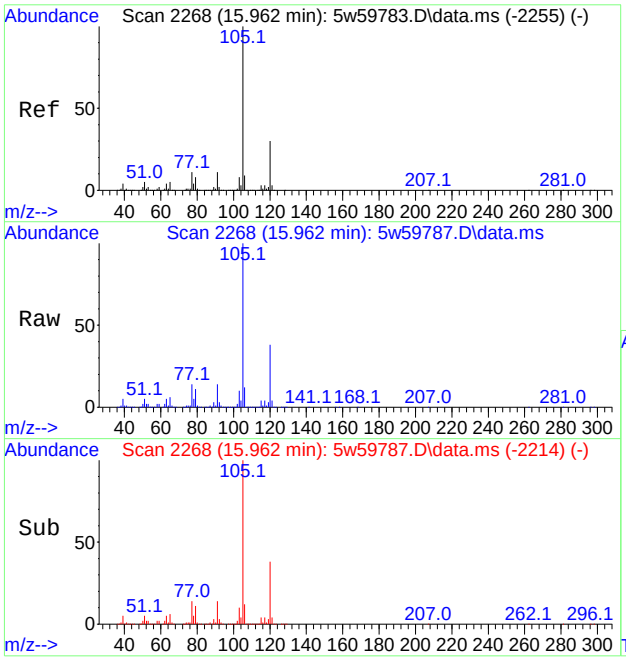


#91
n-PROPYLBENZENE
Concen: 52.74 PPBV
RT: 15.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:120 Resp: 4269312

Ion	Ratio	Lower	Upper
120	100		
105	17.2	0.0	47.0

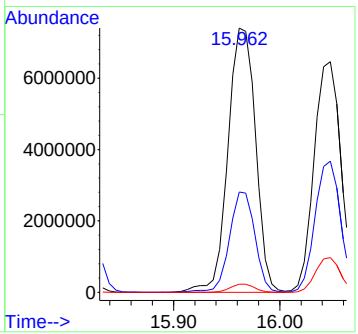


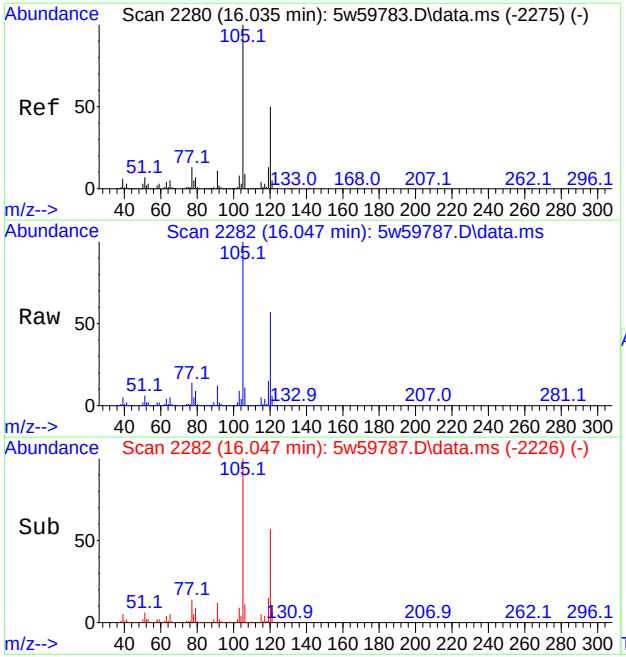


#92
4-ETHYLTOLUENE
Concen: 48.02 PPBV
RT: 15.962 min Scan# 2268
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:13388380

Ion	Ratio	Lower	Upper
105	100		
120	35.0	0.0	59.9
119	2.8	0.0	32.3

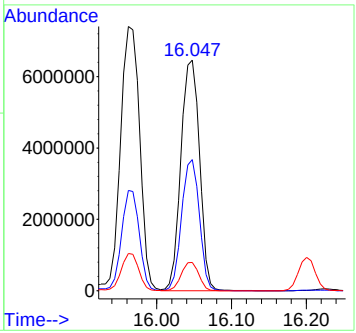


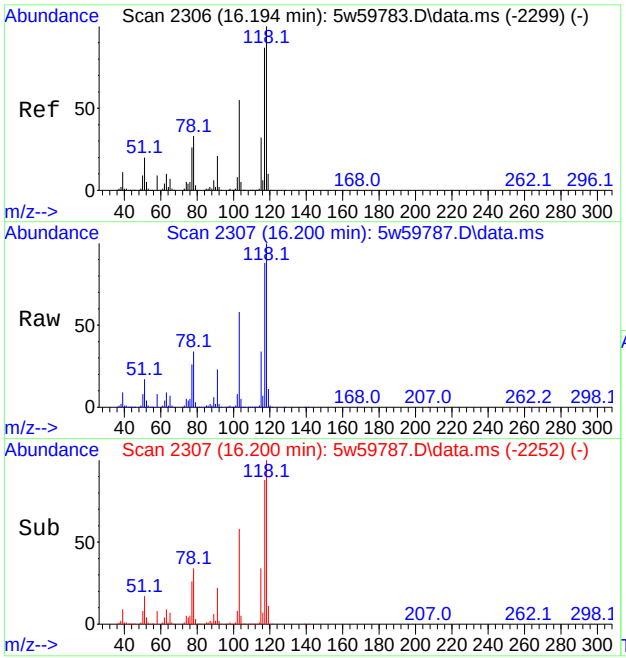


#93
1,3,5-TRIMETHYLBENZENE
Concen: 47.79 PPBV
RT: 16.047 min Scan# 2282
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp:11253685

Ion	Ratio	Lower	Upper
105	100		
120	54.0	19.4	79.4
91	11.6	0.0	40.8

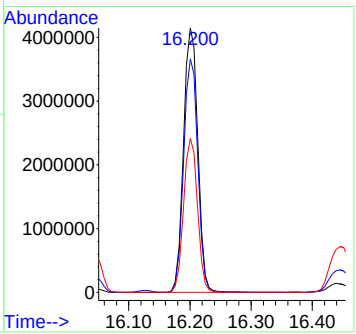


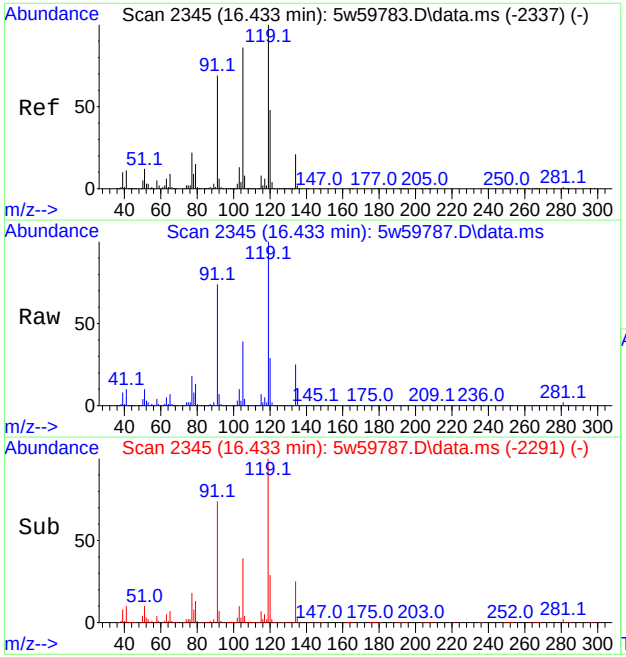


#94
ALPHA-METHYLSTYRENE
Concen: 50.76 PPBV
RT: 16.200 min Scan# 2307
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:118 Resp: 6738901

Ion	Ratio	Lower	Upper
118	100		
117	88.0	60.9	113.1
103	56.8	38.6	71.8

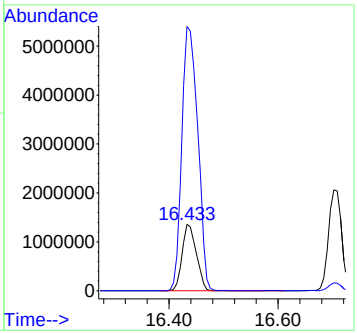


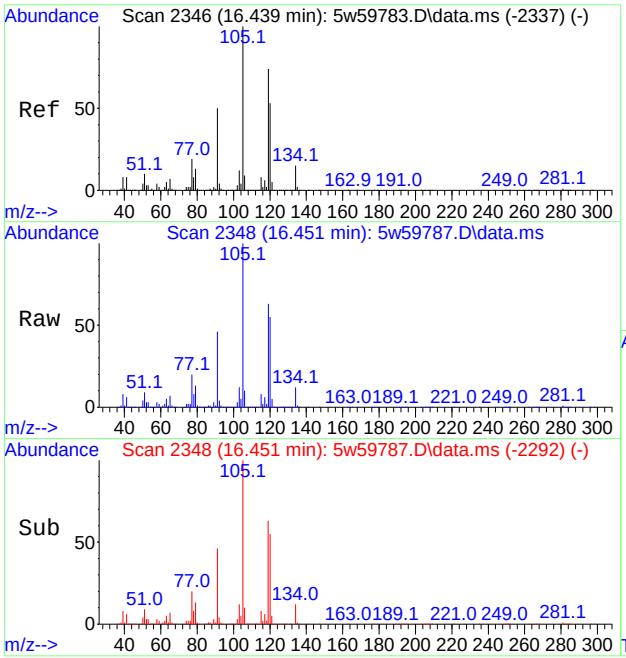


#95
tert-BUTYLBENZENE
Concen: 46.98 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 2429034

Ion	Ratio	Lower	Upper
134	100		
119	449.7	459.3	519.3#

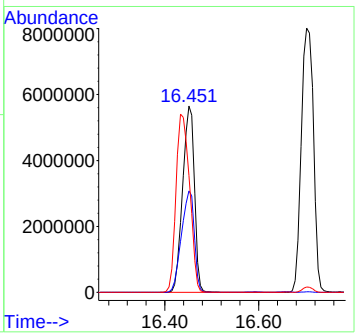


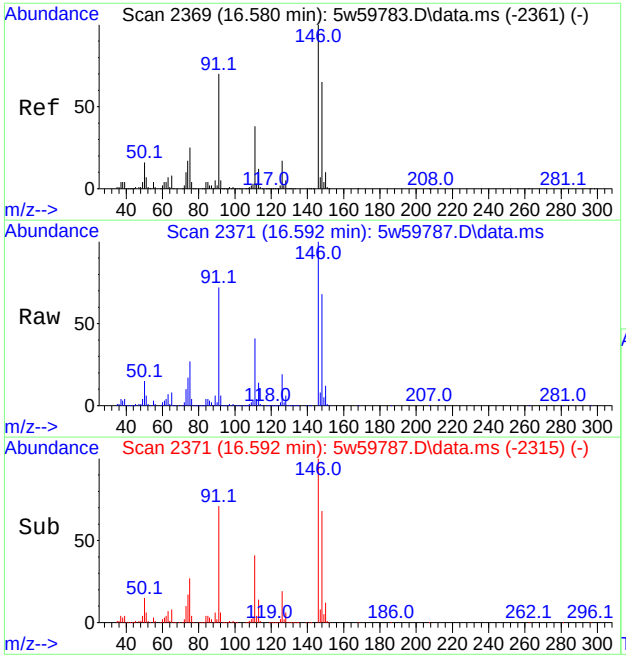


#96
1,2,4-TRIMETHYLBENZENE
Concen: 42.68 PPBV
RT: 16.451 min Scan# 2348
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9912721

Ion	Ratio	Lower	Upper
105	100		
120	59.1	25.7	85.7
119	110.2	75.7	135.7

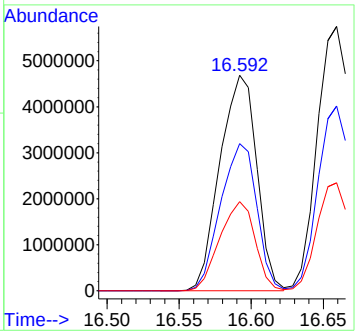


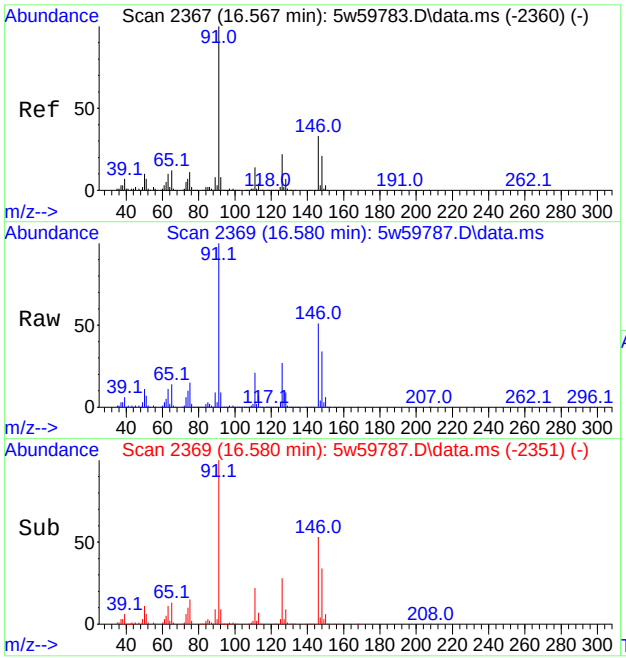


#97
m-DICHLOROBENZENE
Concen: 44.49 PPBV
RT: 16.592 min Scan# 2371
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 8350505

Ion	Ratio	Lower	Upper
146	100		
148	66.9	34.8	94.8
111	39.8	8.2	68.2

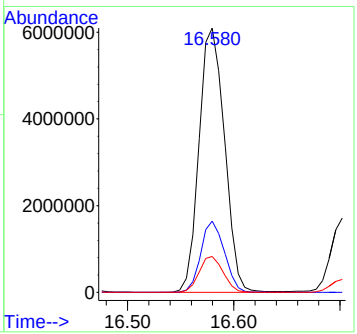


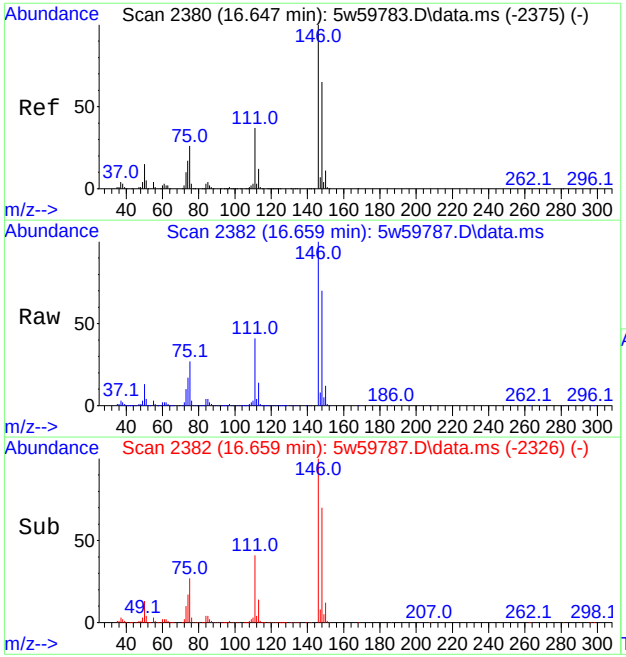


#98
BENZYL CHLORIDE
Concen: 42.40 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion: 91 Resp:10182019

Ion	Ratio	Lower	Upper
91	100		
126	25.0	0.0	51.7
65	12.9	0.0	42.2

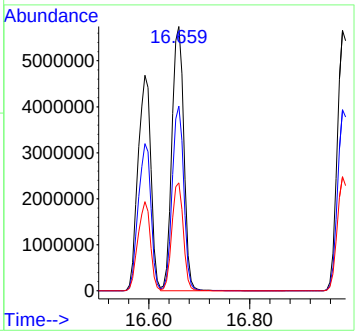


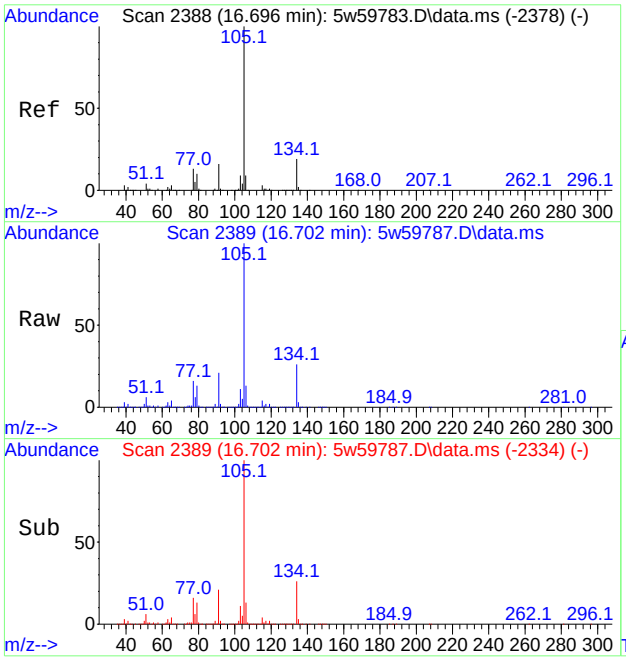


#99
p-DICHLOROBENZENE
Concen: 51.05 PPBV
RT: 16.659 min Scan# 2382
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9434738

Ion	Ratio	Lower	Upper
146	100		
148	67.8	34.6	94.6
111	39.2	6.7	66.7

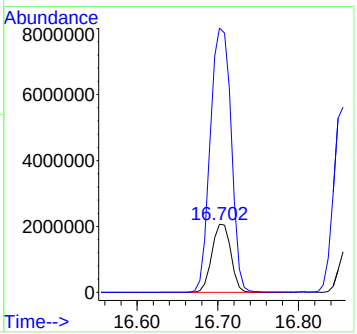


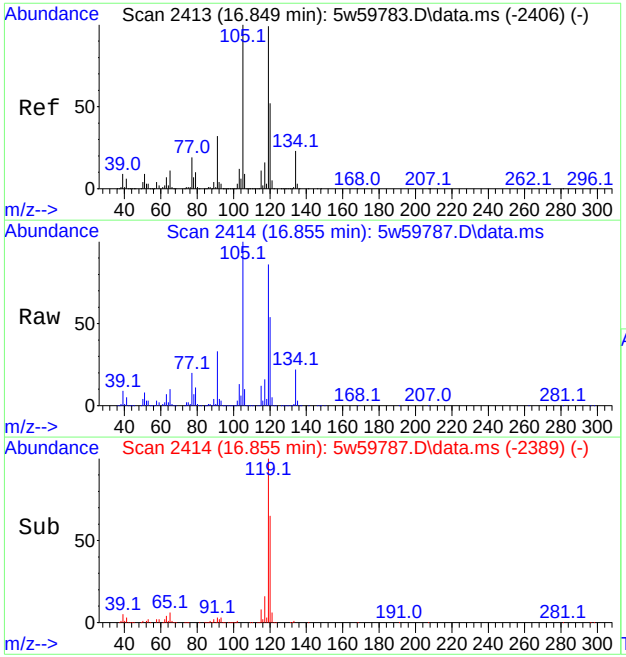


#100
sec-BUTYLBENZENE
Concen: 52.25 PPBV
RT: 16.702 min Scan# 2389
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3389691

Ion	Ratio	Lower	Upper
134	100		
105	427.3	502.5	562.5#

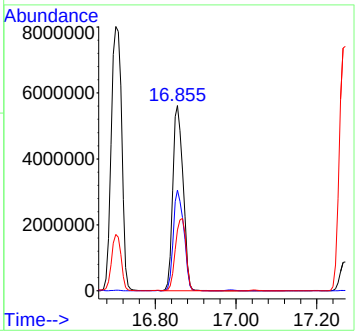


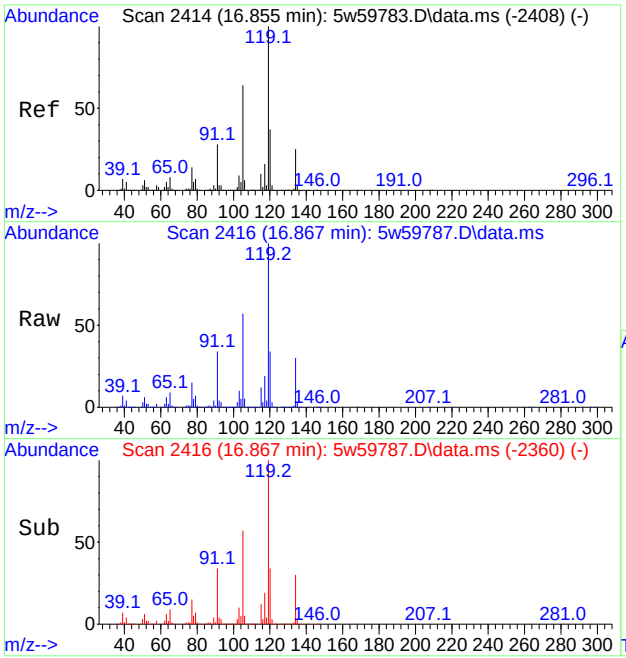


#101
1,2,3-TRIMETHYLBENZENE
Concen: 41.33 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:105 Resp: 9964483

Ion	Ratio	Lower	Upper
105	100		
120	55.5	23.5	83.5
91	40.0	7.4	67.4

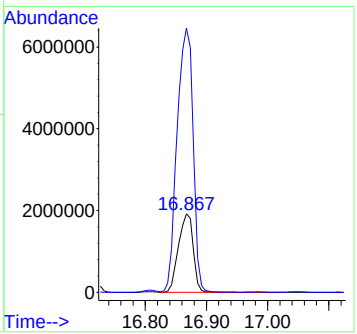


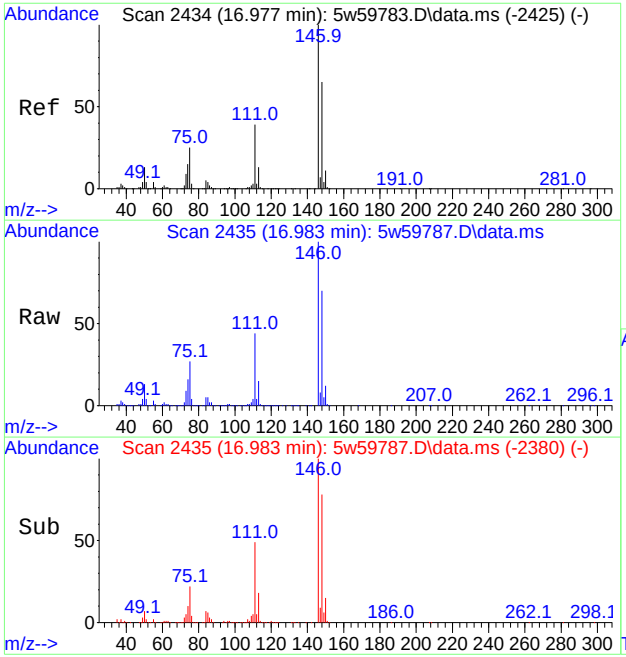


#102
p-ISOPROPYLTOLUENE
Concen: 42.88 PPBV
RT: 16.867 min Scan# 2416
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 3209884

Ion	Ratio	Lower	Upper
134	100		
119	366.4	377.7	437.7#

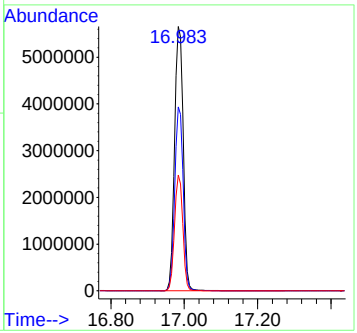


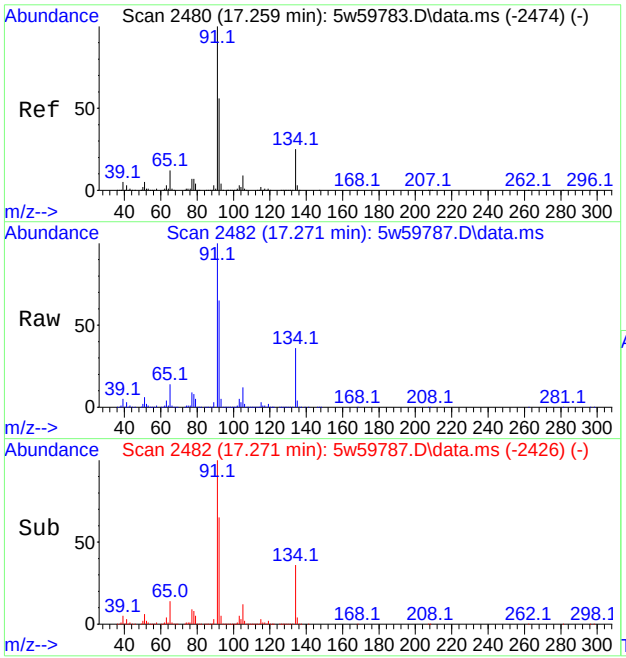


#103
o-DICHLOROBENZENE
Concen: 51.54 PPBV
RT: 16.983 min Scan# 2435
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:146 Resp: 9264152

Ion	Ratio	Lower	Upper
146	100		
148	67.6	34.3	94.3
111	41.8	9.2	69.2

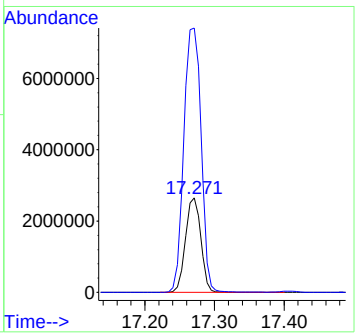


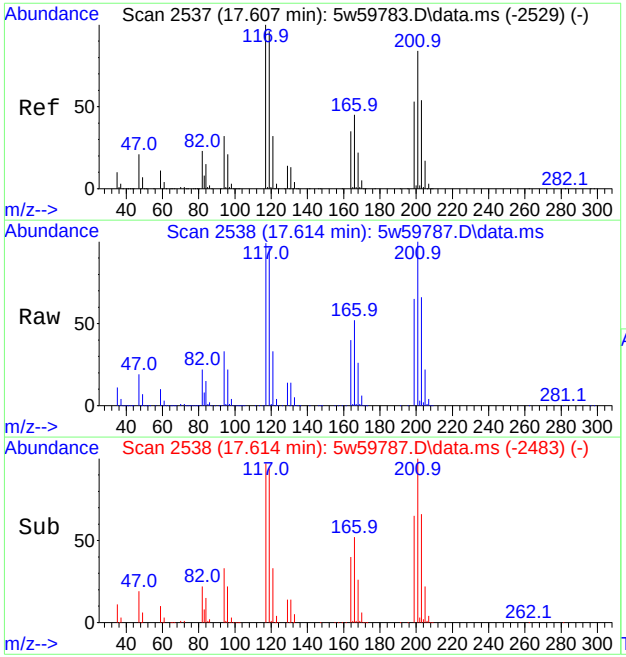


#104
n-BUTYLBENZENE
Concen: 53.04 PPBV
RT: 17.271 min Scan# 2482
Delta R.T. 0.012 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:134 Resp: 4068110

Ion	Ratio	Lower	Upper
134	100		
91	315.5	363.1	423.1#

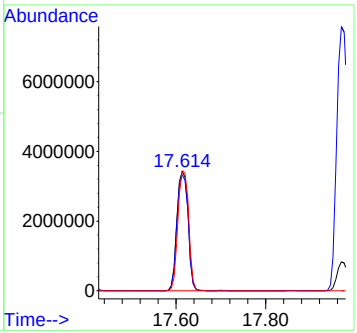


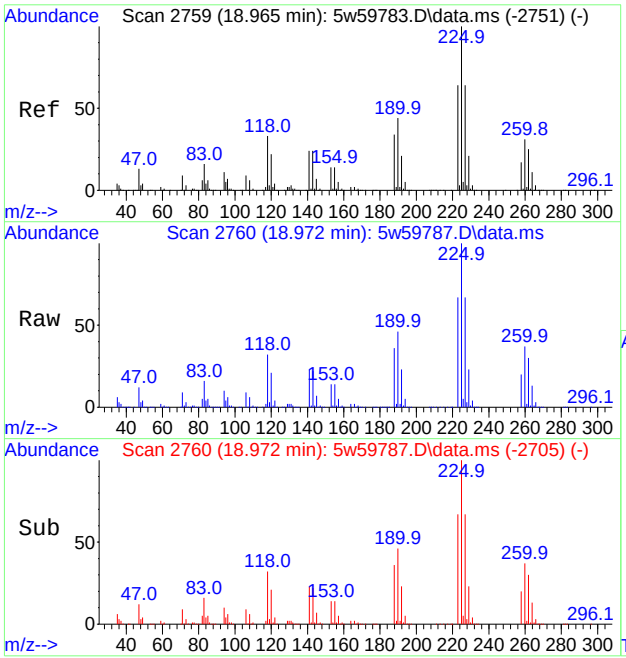


#105
HEXACHLOROETHANE
Concen: 48.19 PPBV
RT: 17.614 min Scan# 2538
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:117 Resp: 5943910

Ion	Ratio	Lower	Upper
117	100		
119	96.7	67.2	124.8
201	96.6	61.1	113.5

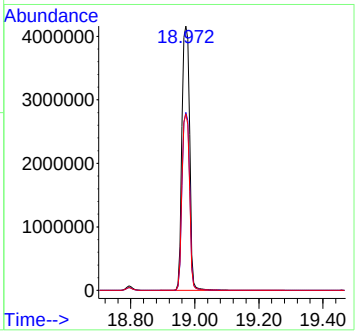


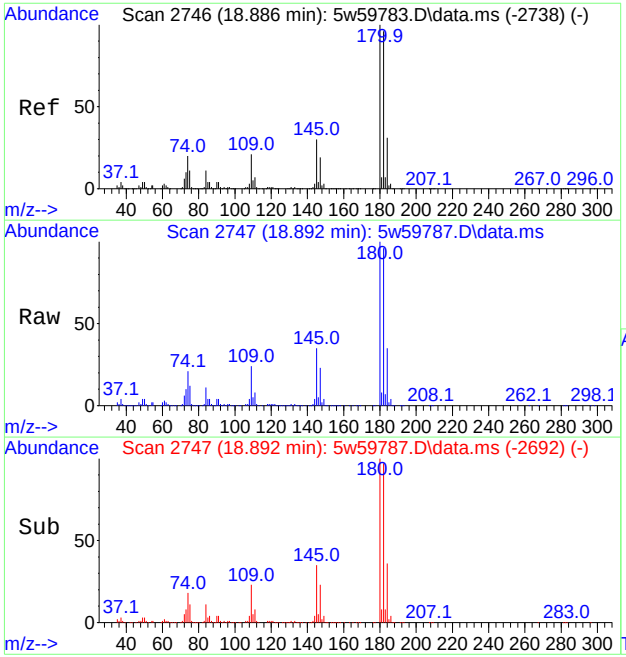


#106
HEXACHLOROBUTADIENE
Concen: 42.04 PPBV
RT: 18.972 min Scan# 2760
Delta R.T. 0.007 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:225 Resp: 6941797

Ion	Ratio	Lower	Upper
225	100		
227	66.3	34.2	94.2
223	65.7	33.3	93.3

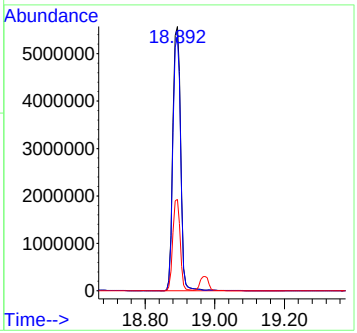


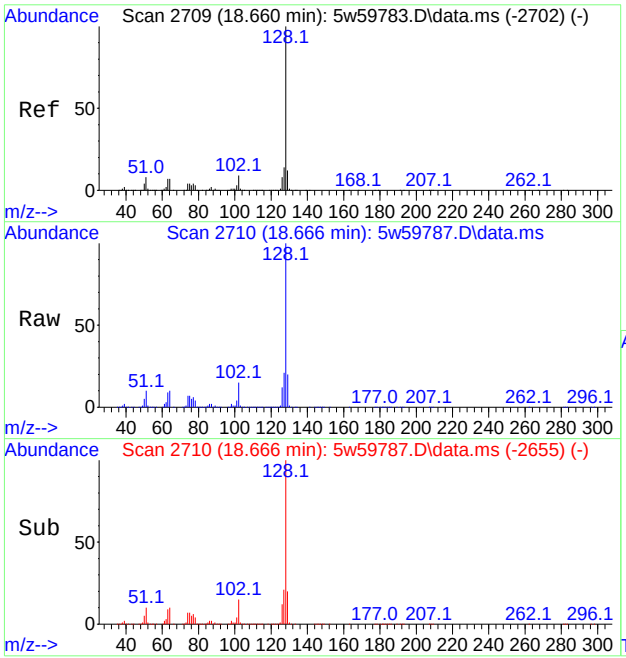


#107
1,2,4-TRICHLOROBENZENE
Concen: 50.18 PPBV
RT: 18.892 min Scan# 2747
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:180 Resp: 8668660

Ion	Ratio	Lower	Upper
180	100		
182	95.6	65.4	125.4
145	32.7	0.0	59.4

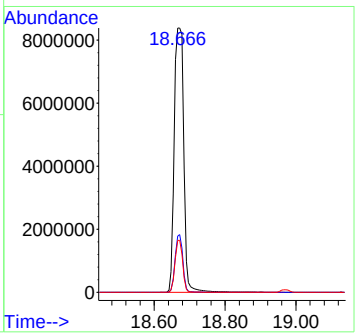


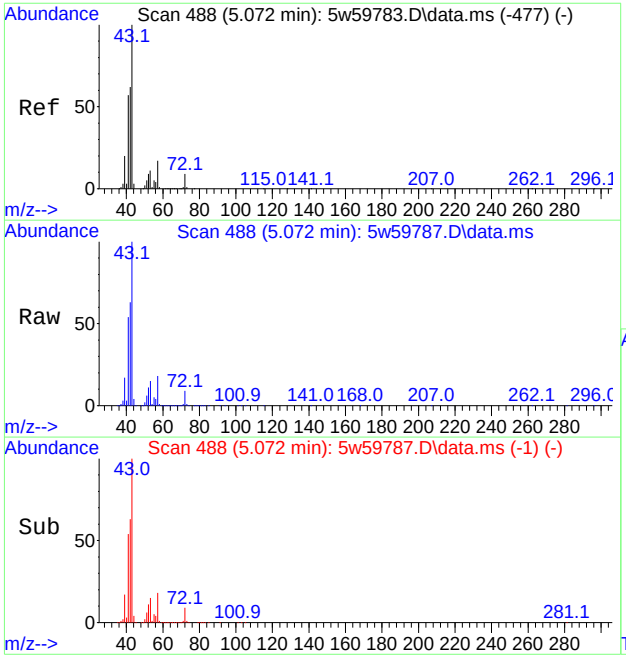


#108
NAPHTHALENE
Concen: 41.73 PPBV
RT: 18.666 min Scan# 2710
Delta R.T. 0.006 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:128 Resp:15644412

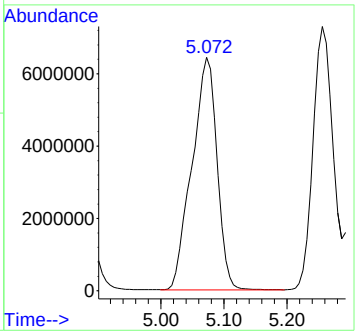
Ion	Ratio	Lower	Upper
128	100		
127	17.9	0.0	43.3
129	16.0	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 64.59 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59787.D
Acq: 7 Nov 2025 10:24 am

Tgt Ion:TIC Resp:17678397



Manual Integration Approval Summary

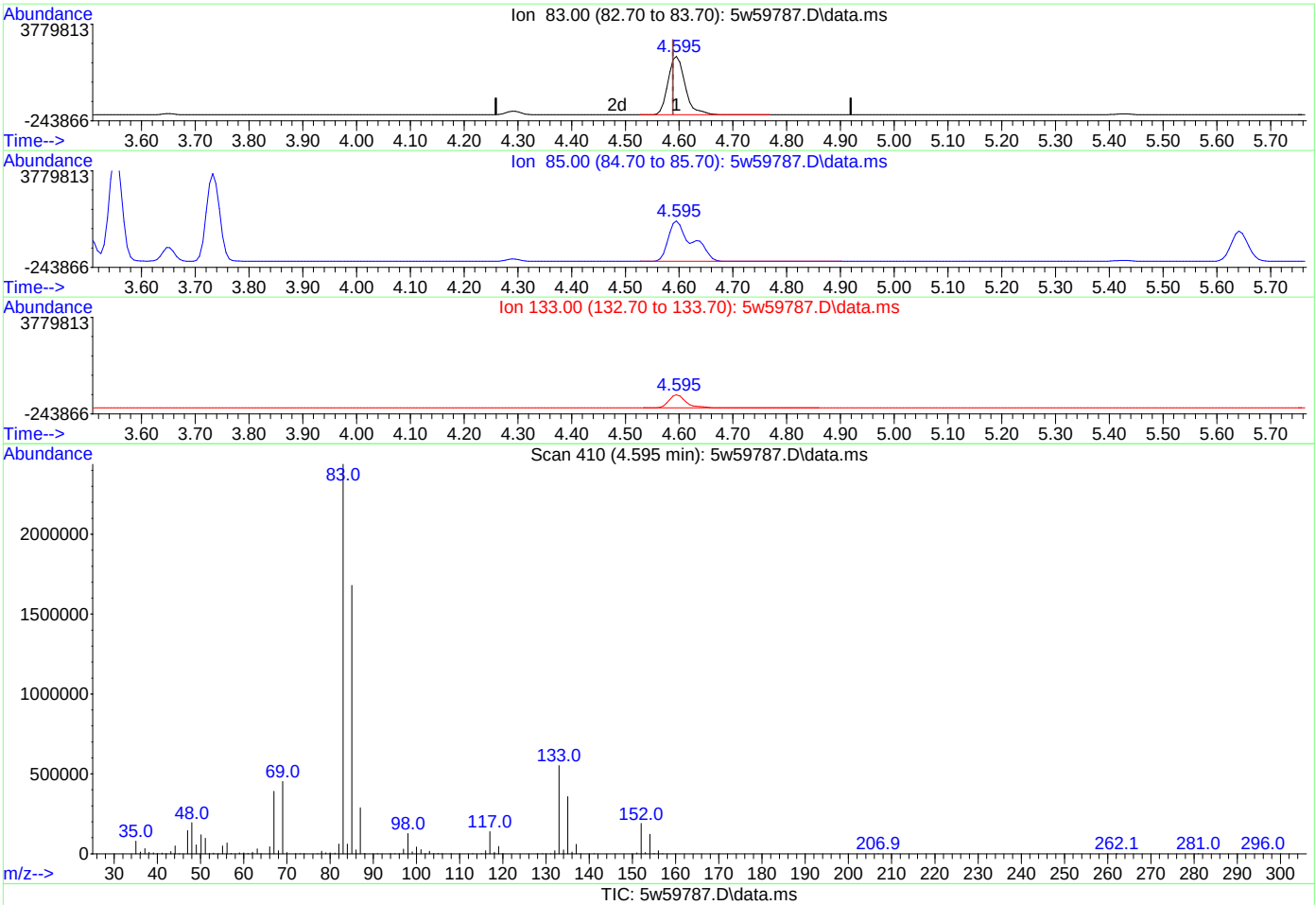
Sample Number: V5W2292-IC2292 **Method:** TO-15
Lab FileID: 5W59787.D **Analyst approved:** 11/07/25 21:30 Benjamin Kim
Injection Time: 11/07/25 10:24 **Supervisor approved:** 11/10/25 12:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 123	306-83-2		4.60	Poor instrument integration
Ethyl Acetate	141-78-6		7.42	Poor instrument integration
1,3-Dichloropropane	142-28-9		11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV

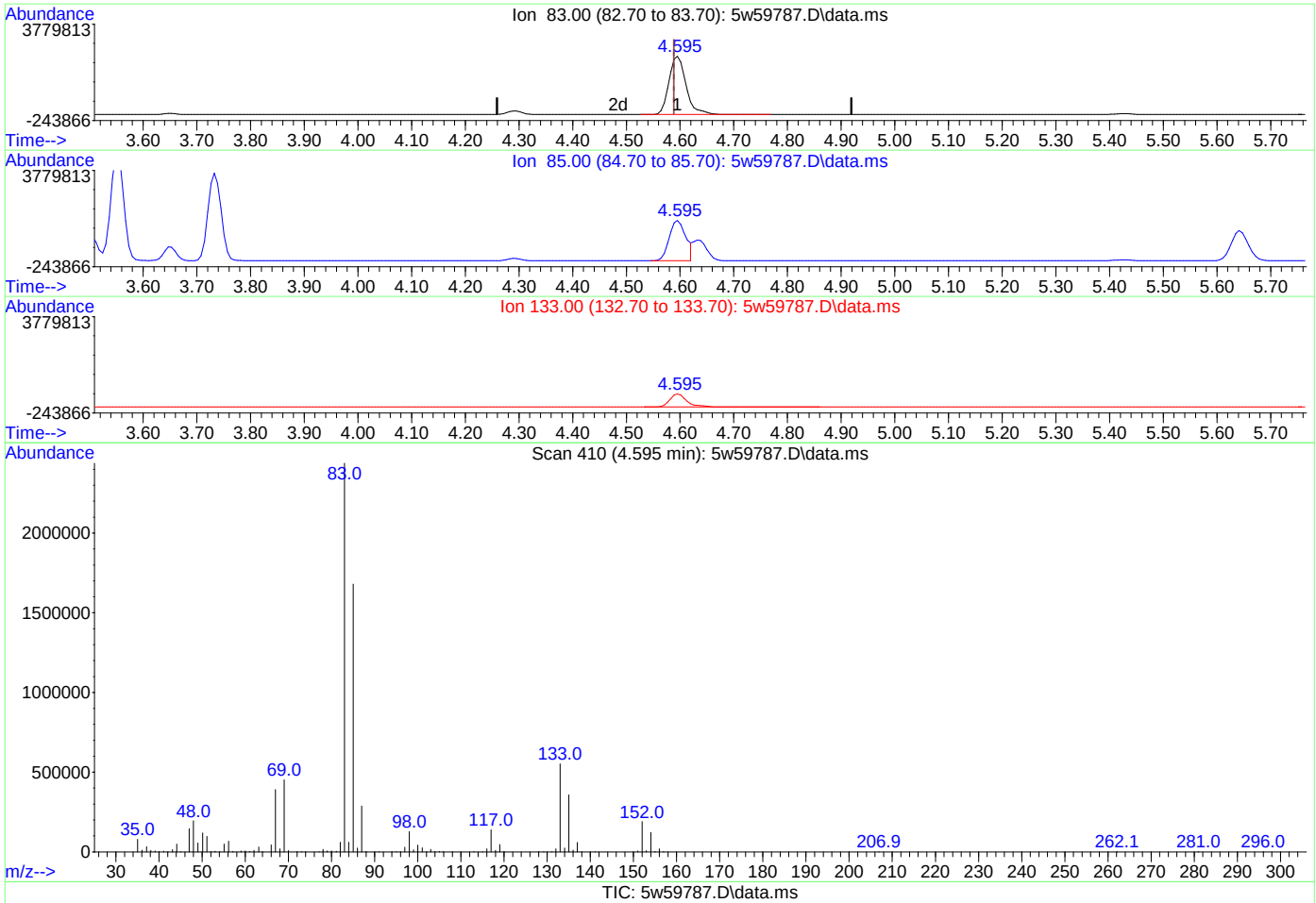
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	96.25#
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(19) FREON 123

4.595min (+0.006) 53.17PPBV m

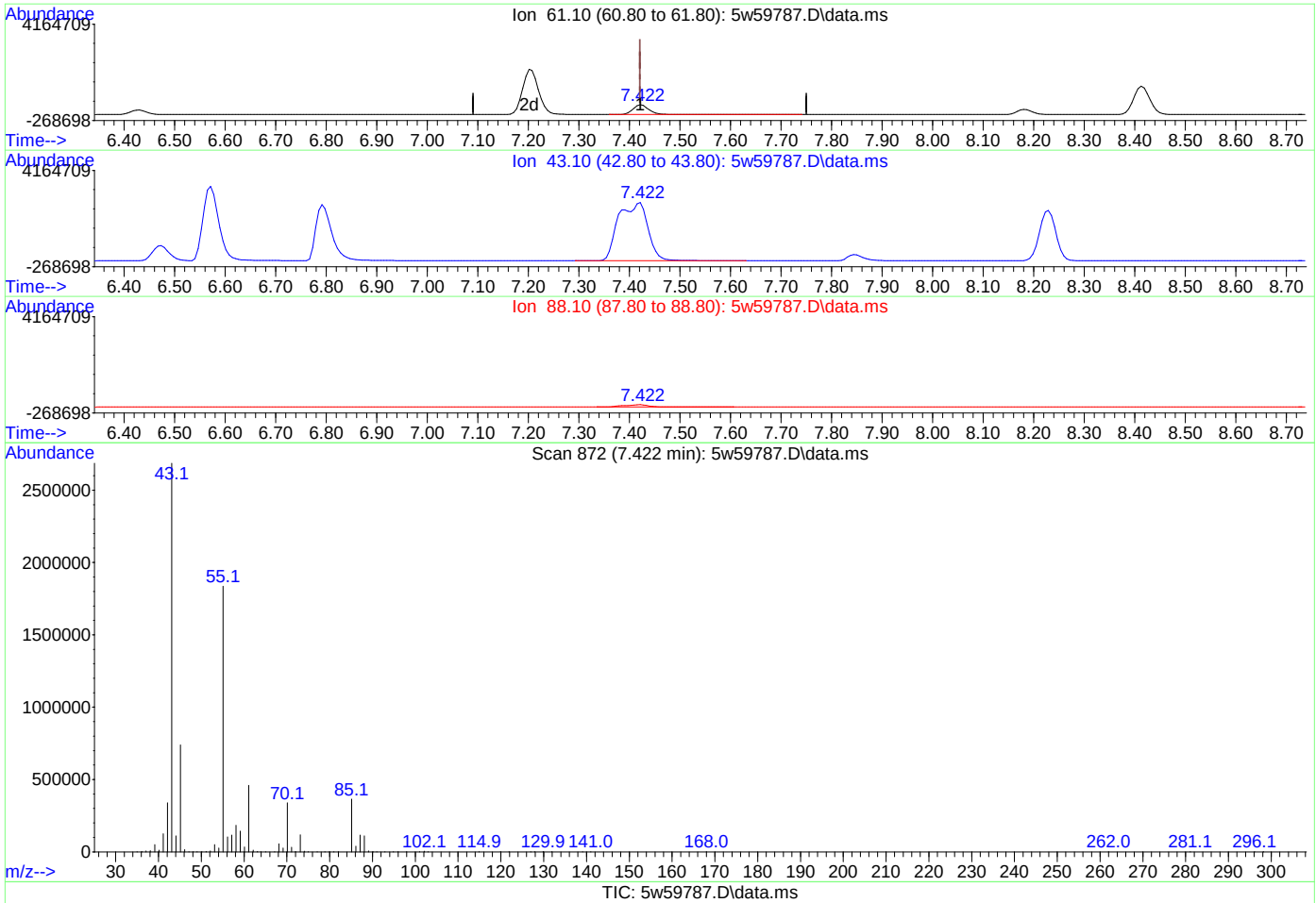
response 5407858

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	67.57
133.00	20.70	22.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV

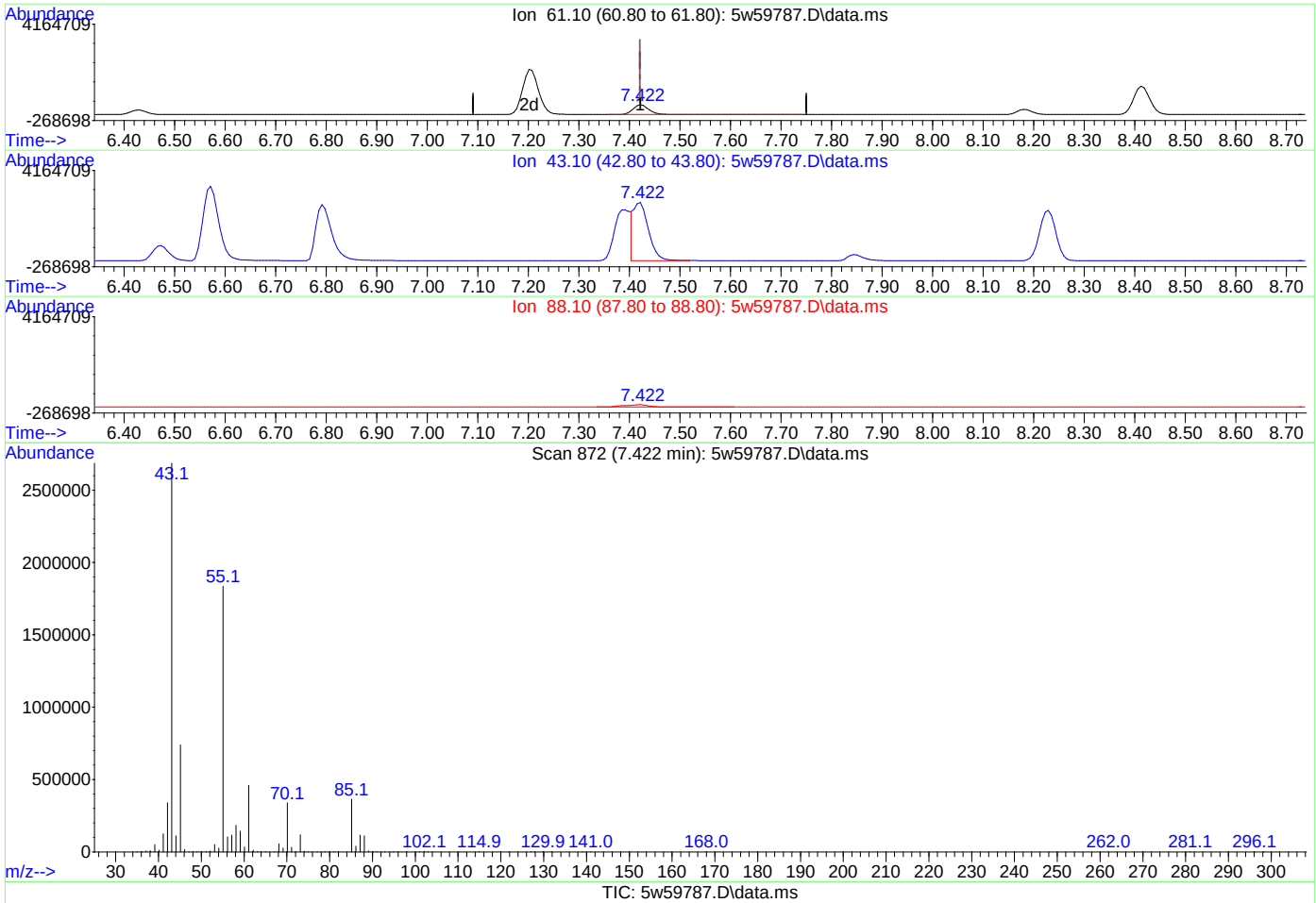
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	1080.14#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(44) ETHYL ACETATE

7.422min (+0.000) 62.87PPBV m

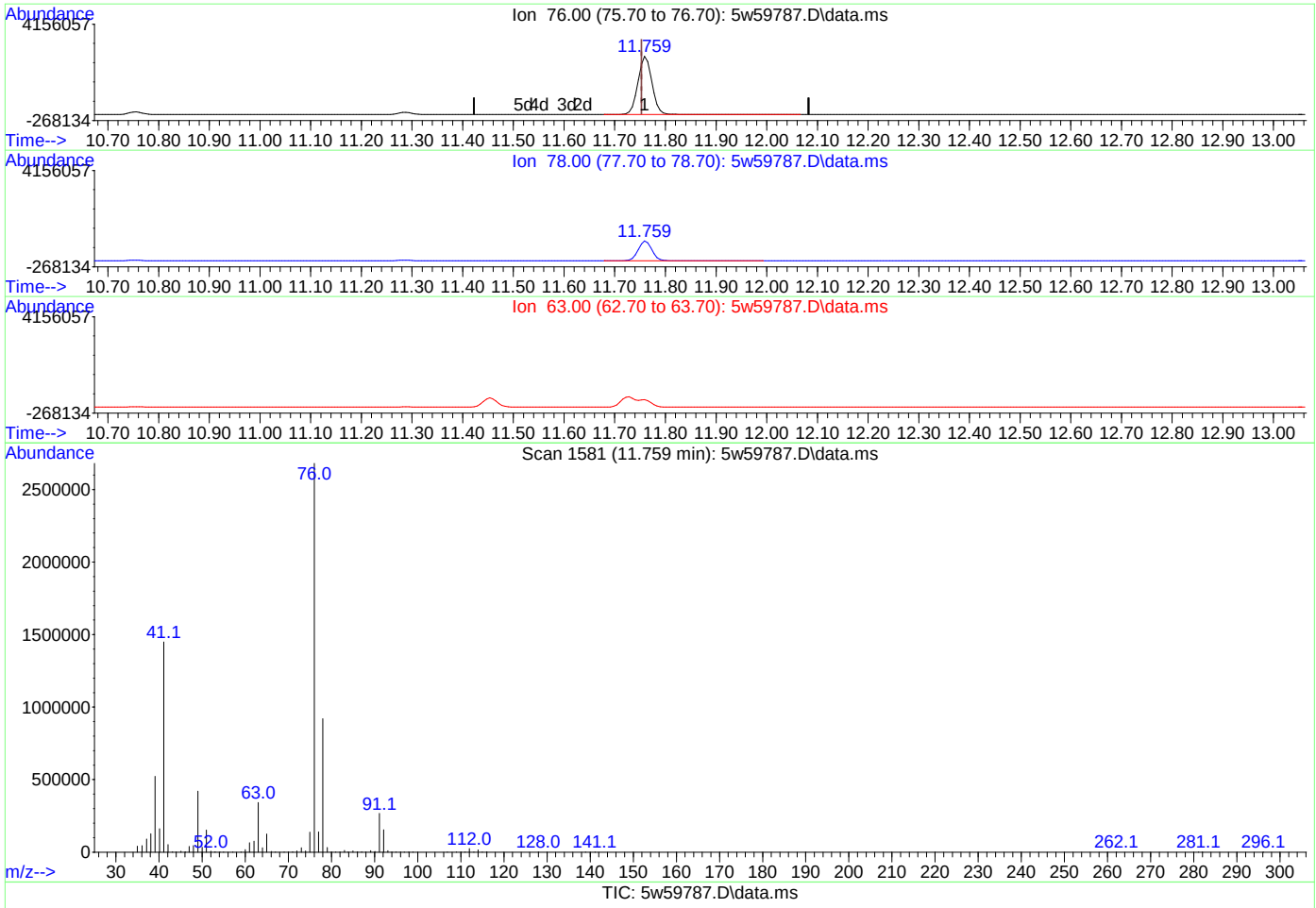
response 1009100

Ion	Exp%	Act%
61.10	100	100
43.10	590.50	545.04#
88.10	34.50	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV

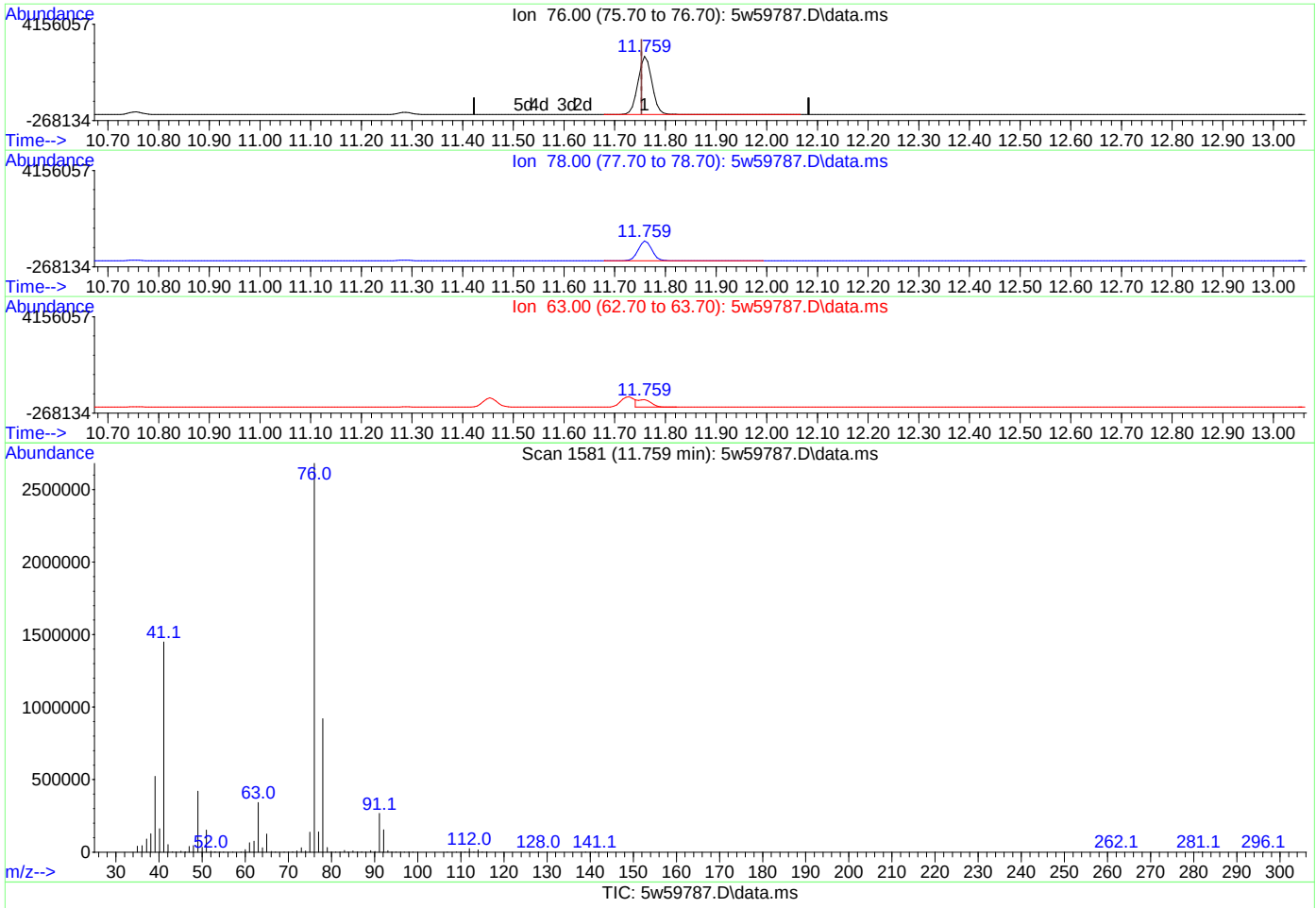
response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w59787.D
Acq On : 7 Nov 2025 10:24 am
Operator : benk
Sample : ic2292-60
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 12:43:10 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Fri Nov 07 09:56:45 2025
Response via : Initial Calibration



TIC: 5w59787.D\data.ms

(67) 1,3-DICHLOROPROPANE

11.759min (+0.006) 63.52PPBV m

response 5183507

Ion	Exp%	Act%
76.00	100	100
78.00	33.10	33.71
63.00	10.10	12.12
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.354	128	498212	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2163467	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	13.539	82	1167536	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	498212	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	15.160	95	1483789	10.17	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.70%			
Target Compounds						Qvalue
2) FREON 115	3.365	119	415215	12.16	PPBV	100
3) FREON 152A	3.445	65	342794	9.28	PPBV	99
4) CHLORODIFLUOROMETHANE	3.476	67	168320	10.89	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.506	116	800294	10.34	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.549	85	1577776	11.07	PPBV	99
7) PROPYLENE	3.500	41	381437	9.97	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1137041	9.85	PPBV	100
9) FREON 114	3.732	85	1508684	11.57	PPBV	99
10) CHLOROMETHANE	3.665	52	156659	10.00	PPBV	98
11) VINYL CHLORIDE	3.818	62	498882	10.34	PPBV	99
12) 1,3-BUTADIENE	3.910	54	299983	10.32	PPBV	99
13) n-BUTANE	3.947	43	491620	10.35	PPBV	99
14) BROMOMETHANE	4.106	94	546593	10.65	PPBV	100
15) CHLOROETHANE	4.228	64	217760	9.25	PPBV	99
16) DICHLOROFLUOROMETHANE	4.289	67	1122027	10.94	PPBV	100
17) ACETONITRILE	4.479	41	273749	10.09	PPBV	100
18) ACROLEIN	4.571	56	174000	11.29	PPBV	98
19) FREON 123	4.589	83	1172331	9.88	PPBV	73
20) FREON 123A	4.632	117	658691	9.67	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.791	101	1322128	10.86	PPBV	100
22) ISOPROPYL ALCOHOL	4.870	45	957946	9.81	PPBV	99
23) ACETONE	4.675	58	182115	9.32	PPBV	97
24) PENTANE	5.072	42	485024	9.56	PPBV	99
25) IODOMETHANE	5.256	142	1656951	10.92	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.317	96	514235	9.62	PPBV	99
27) CARBON DISULFIDE	5.672	76	1333722	9.53	PPBV	99
28) ETHANOL	4.314	45	175873	10.75	PPBV	99
29) BROMOETHENE	4.479	106	523753	10.35	PPBV	100
30) ACRYLONITRILE	5.042	52	335497	10.15	PPBV	100
31) METHYLENE CHLORIDE	5.421	84	460743	9.22	PPBV	100
32) 3-CHLOROPROPENE	5.519	76	235062	9.77	PPBV	98
33) FREON 113	5.641	151	936508	10.53	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.241	96	523452	9.34	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.372	59	1150749	11.52	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.473	73	1424107	10.10	PPBV	100
37) TETRAHYDROFURAN	7.856	72	236078	12.20	PPBV	99
38) HEXANE	7.379	57	814752	10.24	PPBV	100
39) VINYL ACETATE	6.565	86	92915	11.55	PPBV #	94
40) 1,1-DICHLOROETHANE	6.424	63	1012856	9.85	PPBV	100
41) METHYL ETHYL KETONE	6.797	72	231727	12.04	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.195	96	576053	9.43	PPBV	99
43) DIISOPROPYL ETHER	7.391	59	255743	12.23	PPBV	99
44) ETHYL ACETATE	7.415	61	170036	11.56	PPBV #	1
45) METHYL ACRYLATE	7.403	55	1019941	12.95	PPBV	100
46) CHLOROFORM	7.477	83	1206541	10.89	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.223	57	967097	10.74	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.406	97	1259183	10.90	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1361951	10.85	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	857881	11.15	PPBV		100
52)	BENZENE	8.853	78	1601042	11.05	PPBV		100
53)	CYCLOHEXANE	9.104	84	624324	10.78	PPBV		100
54)	2,3-DIMETHYLPENTANE	9.349	71	314676	10.75	PPBV		98
55)	TRICHLOROETHYLENE	9.887	95	782511	10.60	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	634380	9.43	PPBV		100
57)	DIBROMOMETHANE	9.630	174	826704	10.02	PPBV		100
58)	ETHYL ACRYLATE	9.679	55	1259813	11.98	PPBV		100
59)	BROMODICHLOROMETHANE	9.850	83	1390089	10.86	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2555629	11.14	PPBV		100
61)	1,4-DIOXANE	9.899	88	390530	11.81	PPBV	#	89
62)	HEPTANE	10.187	43	861635	10.33	PPBV		99
63)	METHYL METHACRYLATE	10.107	69	552495	11.70	PPBV		100
64)	METHYL ISOBUTYL KETONE	10.792	58	532725	12.46	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	10.749	75	990327	9.61	PPBV		100
66)	TOLUENE	11.722	92	1196655	11.05	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	950675	10.77	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	940495	9.66	PPBV		99
69)	1,1,2-TRICHLOROETHANE	11.447	83	646298	10.99	PPBV		100
71)	2-HEXANONE	12.010	58	770539	12.62	PPBV		99
72)	ETHYL METHACRYLATE	12.022	69	966723	11.99	PPBV		99
73)	TETRACHLOROETHYLENE	12.872	164	915172	11.49	PPBV		100
74)	DIBROMOCHLOROMETHANE	12.150	129	1566467	11.39	PPBV		100
75)	1,2-DIBROMOETHANE	12.395	107	1272221	11.89	PPBV		100
76)	OCTANE	12.744	43	1249572	11.27	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1017442	11.62	PPBV		99
78)	CHLOROBENZENE	13.582	112	1647850	11.30	PPBV		100
79)	ETHYLBENZENE	13.986	91	2597260	11.61	PPBV		100
80)	m,p-XYLENE	14.182	106	2050019	23.24	PPBV		100
81)	o-XYLENE	14.677	106	1016013	12.30	PPBV		99
82)	STYRENE	14.567	104	1531560	11.88	PPBV		100
83)	NONANE	14.934	43	1246325	11.11	PPBV		100
84)	BROMOFORM	14.249	173	1671641	12.32	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	14.683	83	1743965	12.14	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.818	75	1202955	10.42	PPBV		99
88)	ISOPROPYLBENZENE	15.295	105	2910298	11.51	PPBV		100
89)	BROMOBENZENE	15.374	77	1429493	10.87	PPBV		100
90)	2-CHLOROTOLUENE	15.772	126	779180	11.13	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	807953	11.92	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2990249	12.93	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2480601	11.54	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.194	118	1177774	11.12	PPBV		100
95)	tert-BUTYLBENZENE	16.433	134	570968	13.08	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2612198	13.02	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1916772	12.50	PPBV		100
98)	BENZYL CHLORIDE	16.567	91	2335931	12.63	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1889997	11.46	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	670798	12.13	PPBV		99
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2623929	12.36	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	794033	12.67	PPBV		100
103)	o-DICHLOROBENZENE	16.977	146	1807576	11.75	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	753590	12.27	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1153176	10.90	PPBV		100
106)	HEXACHLOROBUTADIENE	18.966	225	1732361	12.11	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.886	180	1717833	12.05	PPBV		99
108)	NAPHTHALENE	18.660	128	3898122	12.54	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	3177953	10.55	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

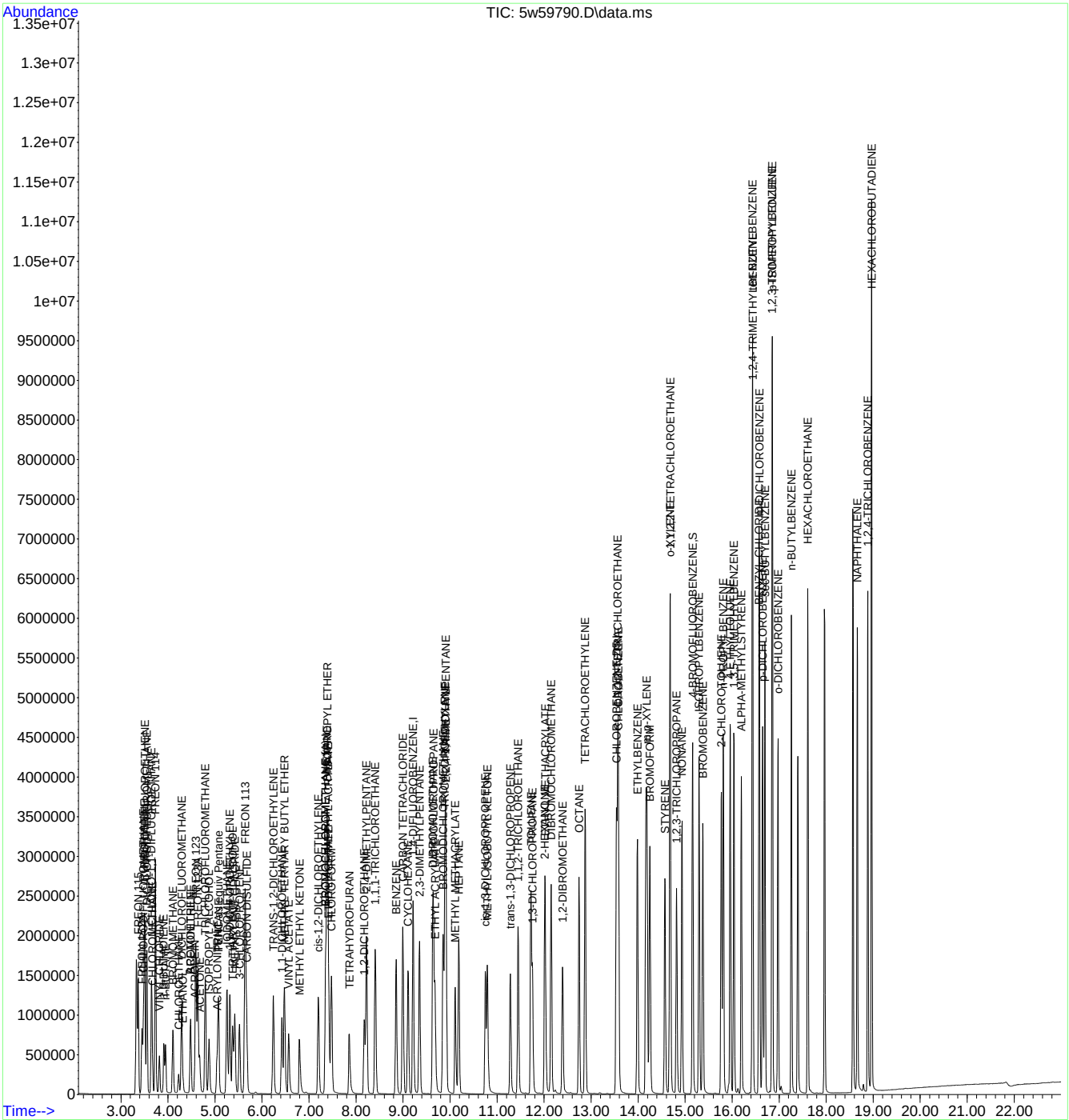
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

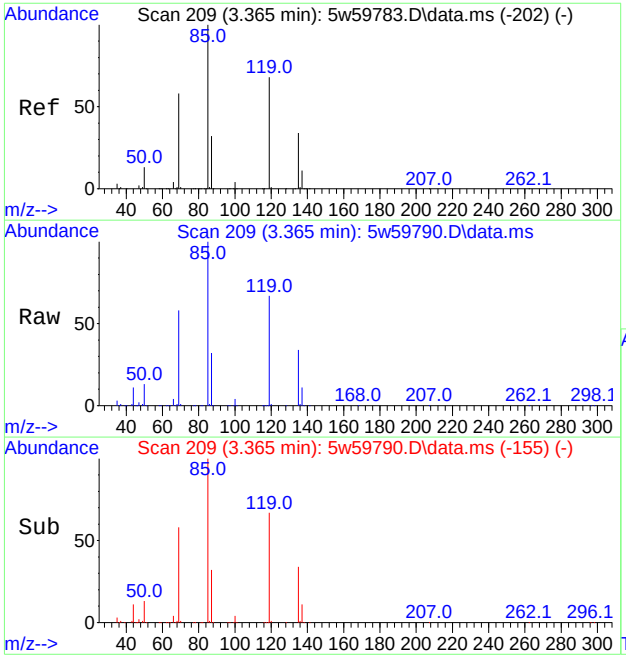
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w59790.D
Acq On : 7 Nov 2025 12:25 pm
Operator : benk
Sample : icv2292-10
Misc : MS96315,V5W2292,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 09:43:52 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

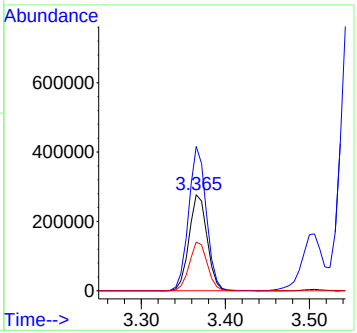


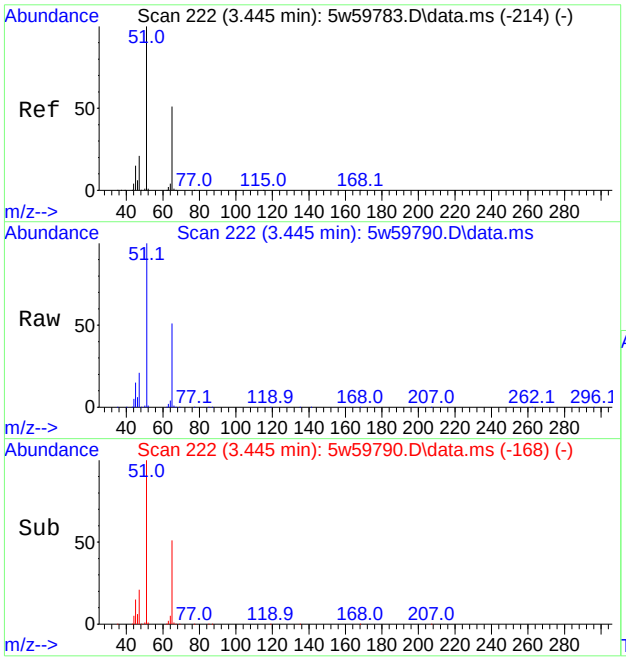


#2
FREON 115
Concen: 12.16 PPBV
RT: 3.365 min Scan# 209
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:119 Resp: 415215

Ion	Ratio	Lower	Upper
119	100		
85	146.5	116.2	176.2
135	50.4	20.6	80.6

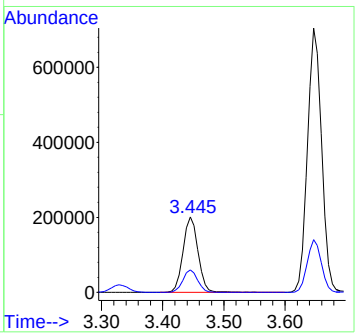


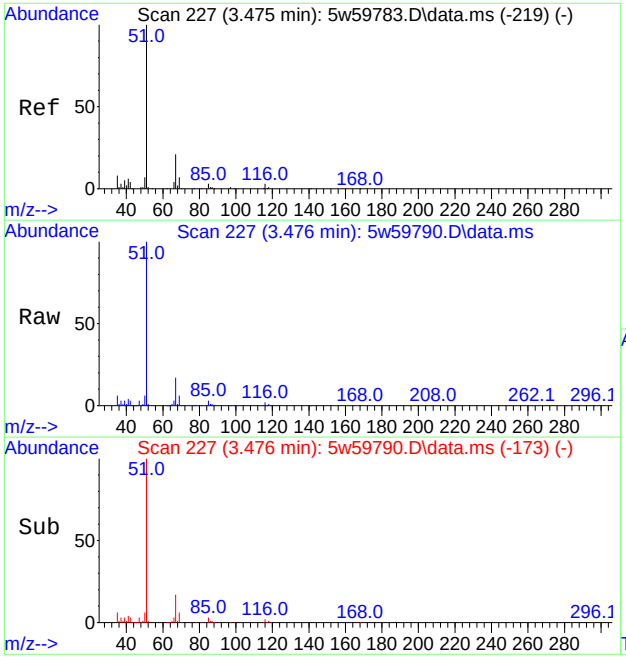


#3
FREON 152A
Concen: 9.28 PPBV
RT: 3.445 min Scan# 222
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 342794

Ion	Ratio	Lower	Upper
65	100		
45	29.5	0.0	60.0

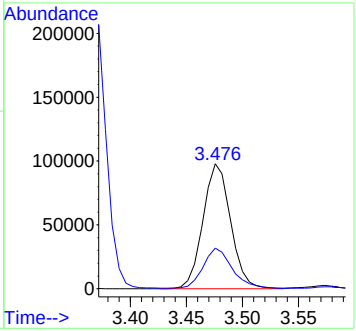


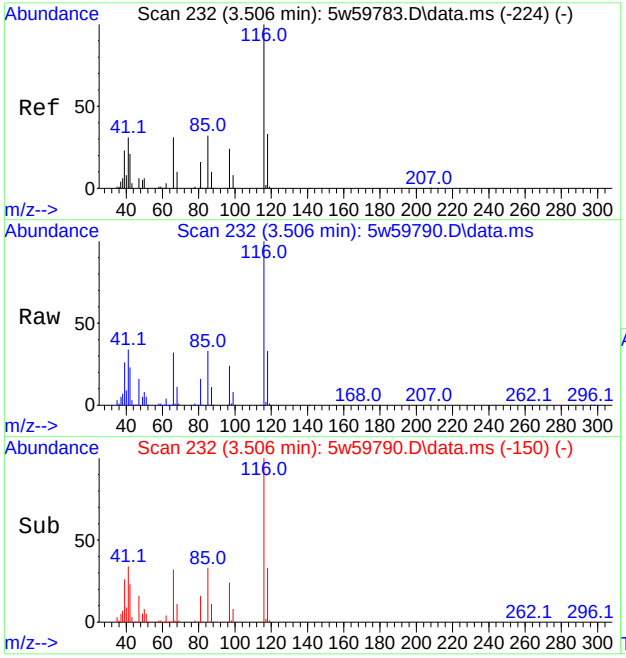


#4
CHLORODIFLUOROMETHANE
Concen: 10.89 PPBV
RT: 3.476 min Scan# 227
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 168320

Ion	Ratio	Lower	Upper
67	100		
69	32.5	1.0	61.0

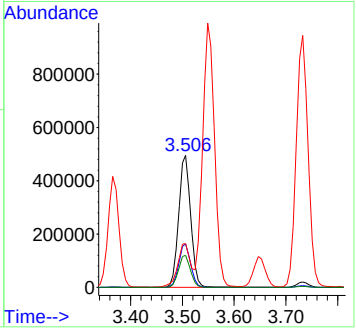


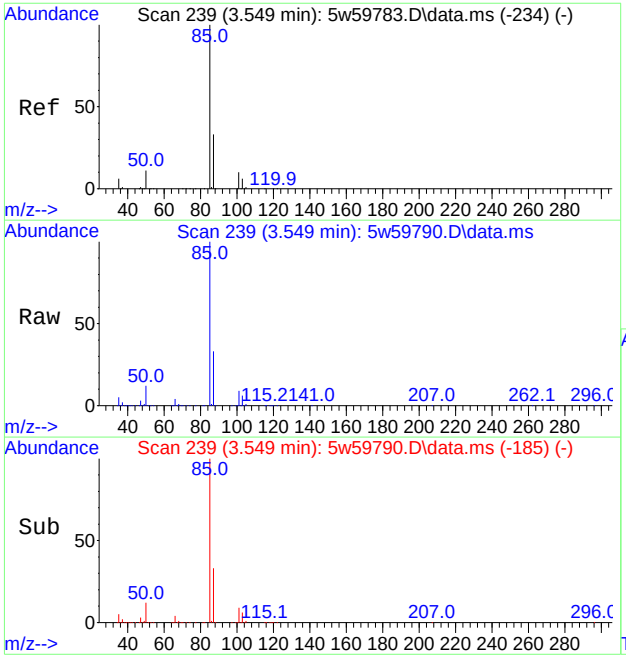


#5
CHLOROTRIFLUOROETHENE
Concen: 10.34 PPBV
RT: 3.506 min Scan# 232
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:116 Resp: 800294

Ion	Ratio	Lower	Upper
116	100		
118	32.6	22.9	42.5
85	37.1	23.7	44.1
97	24.1	17.0	31.6

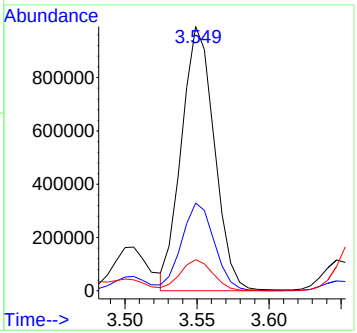


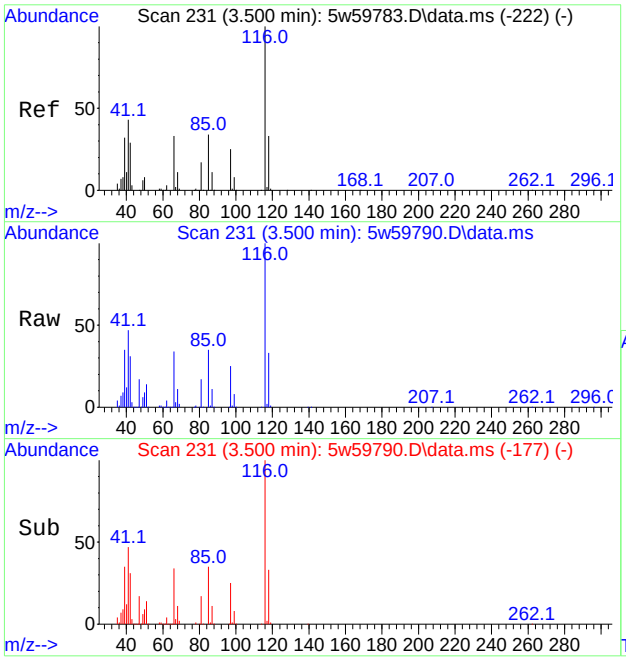


#6
DICHLORODIFLUOROMETHANE
Concen: 11.07 PPBV
RT: 3.549 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1577776

Ion	Ratio	Lower	Upper
85	100		
87	33.0	2.5	62.5
50	11.7	0.0	41.7

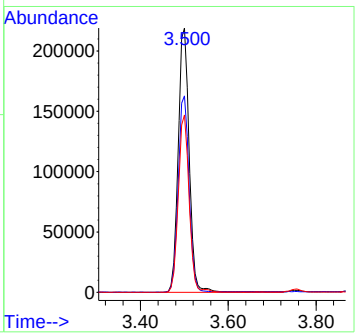


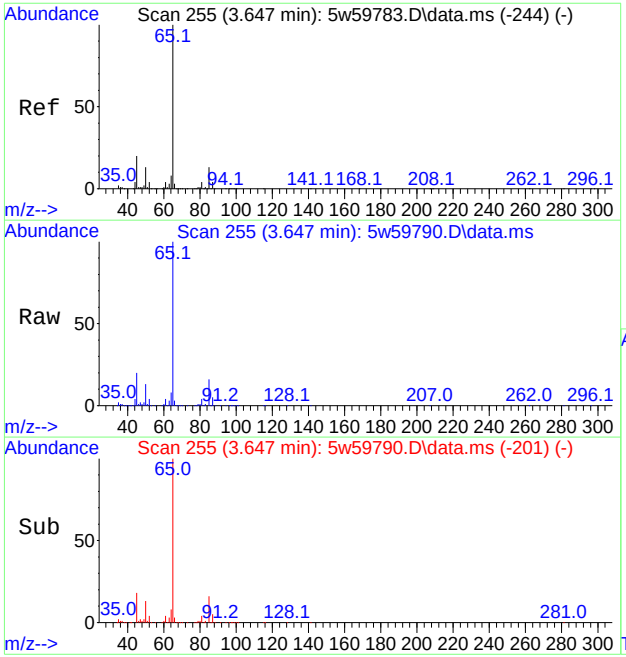


#7
PROPYLENE
Concen: 9.97 PPBV
RT: 3.500 min Scan# 231
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 381437

Ion	Ratio	Lower	Upper
41	100		
39	75.5	45.1	105.1
42	66.3	36.3	96.3

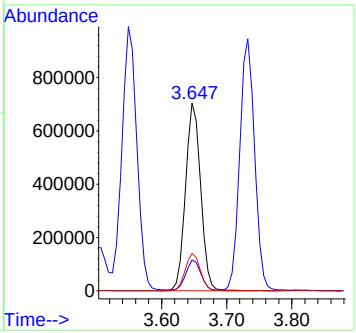


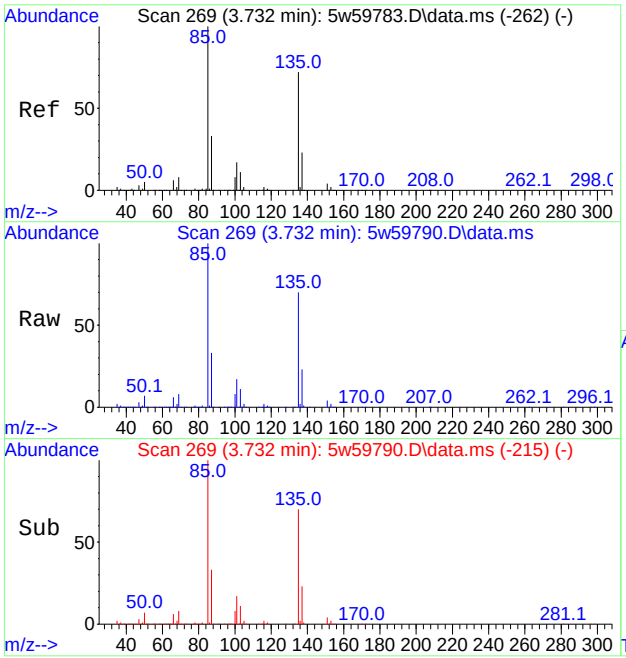


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 9.85 PPBV
RT: 3.647 min Scan# 255
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 65 Resp: 1137041

Ion	Ratio	Lower	Upper
65	100		
85	16.5	11.5	21.3
45	20.0	14.0	26.0

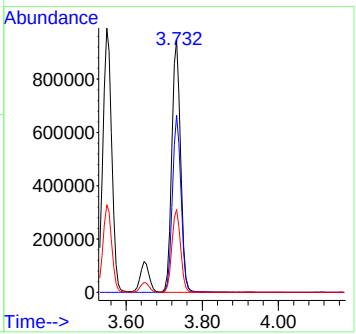


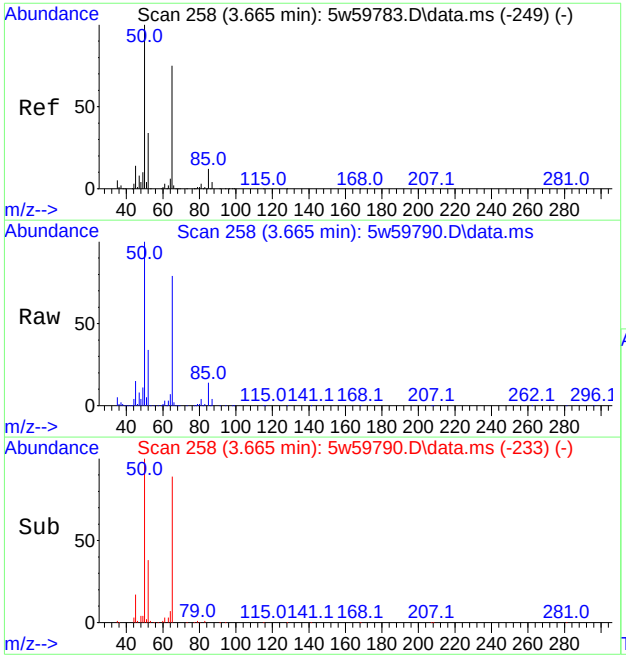


#9
FREON 114
Concen: 11.57 PPBV
RT: 3.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 85 Resp: 1508684

Ion	Ratio	Lower	Upper
85	100		
135	69.6	40.5	100.5
87	32.8	3.0	63.0

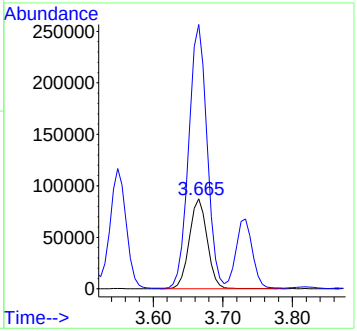


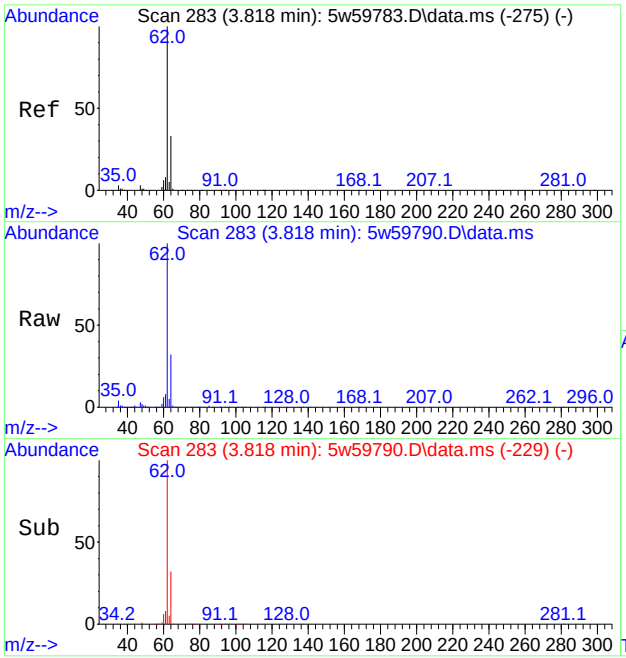


#10
CHLOROMETHANE
Concen: 10.00 PPBV
RT: 3.665 min Scan# 258
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 156659

Ion	Ratio	Lower	Upper
52	100		
50	293.1	267.9	327.9

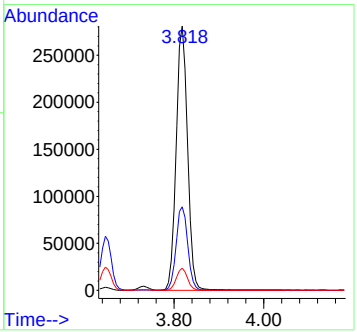


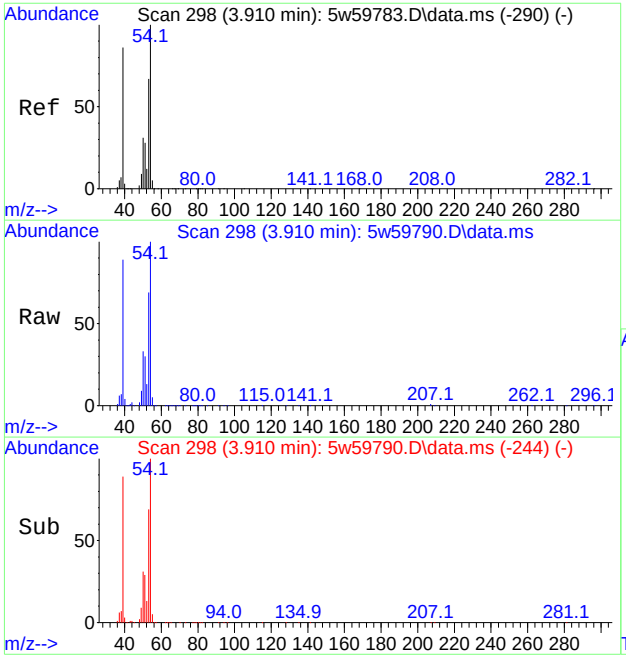


#11
VINYL CHLORIDE
Concen: 10.34 PPBV
RT: 3.818 min Scan# 283
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 498882

Ion	Ratio	Lower	Upper
62	100		
64	32.9	3.6	63.6
61	8.2	0.0	38.2

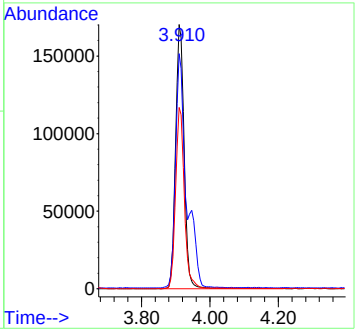


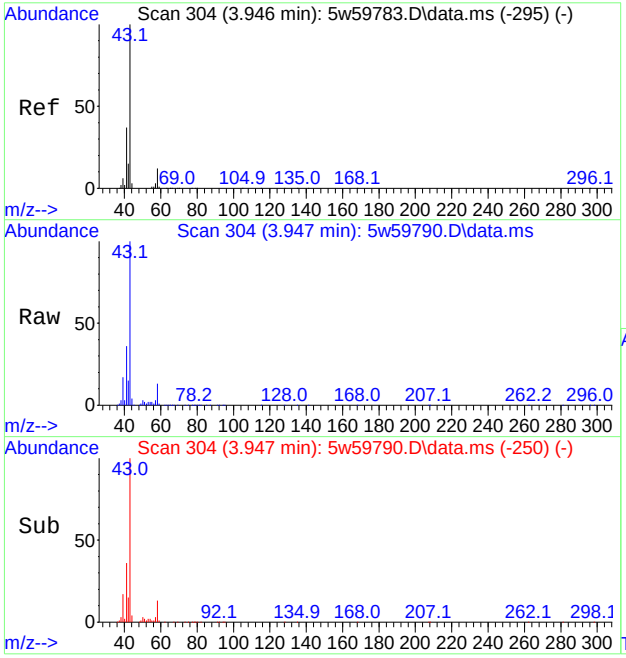


#12
1,3-BUTADIENE
Concen: 10.32 PPBV
RT: 3.910 min Scan# 298
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 54 Resp: 299983

Ion	Ratio	Lower	Upper
54	100		
39	113.6	82.0	142.0
53	71.1	40.2	100.2

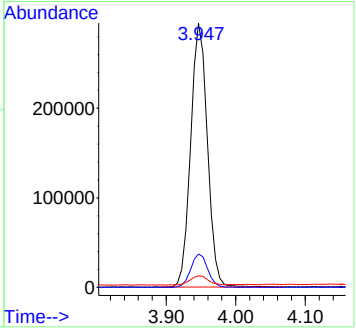


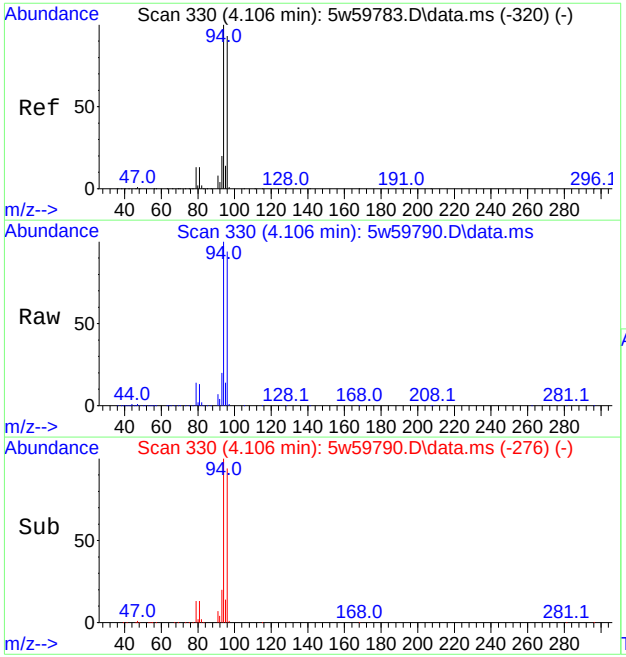


#13
n-BUTANE
Concen: 10.35 PPBV
RT: 3.947 min Scan# 304
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 491620

Ion	Ratio	Lower	Upper
43	100		
58	12.8	0.0	42.6
44	3.8	0.0	34.9

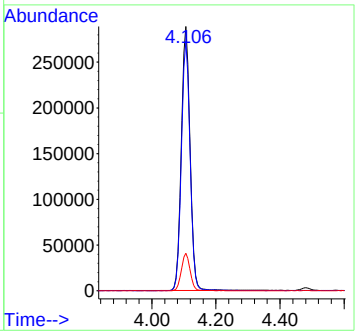


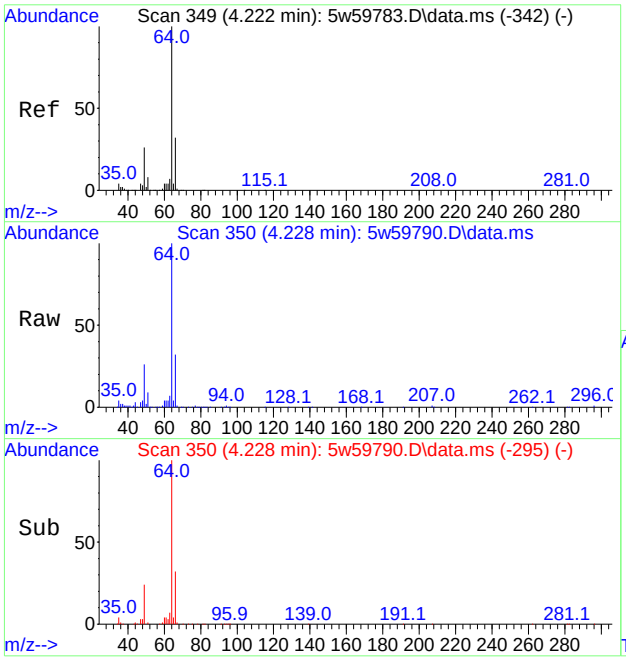


#14
BROMOMETHANE
Concen: 10.65 PPBV
RT: 4.106 min Scan# 330
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 94 Resp: 546593

Ion	Ratio	Lower	Upper
94	100		
96	95.2	65.3	125.3
95	14.3	0.0	44.1

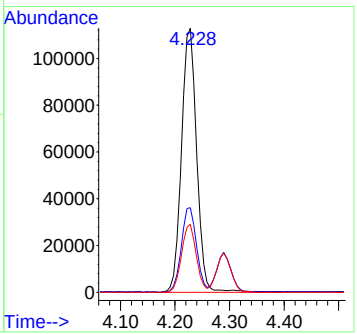


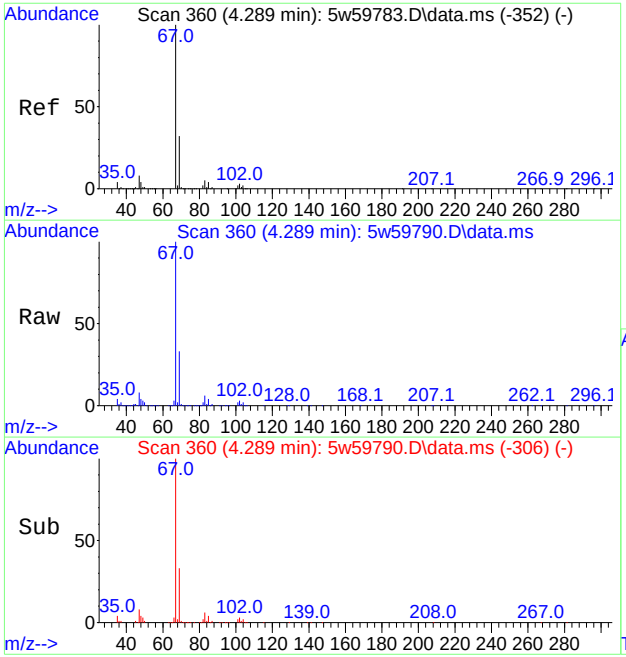


#15
CHLOROETHANE
Concen: 9.25 PPBV
RT: 4.228 min Scan# 350
Delta R.T. 0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 64 Resp: 217760

Ion	Ratio	Lower	Upper
64	100		
66	32.0	3.1	63.1
49	25.0	0.0	55.3

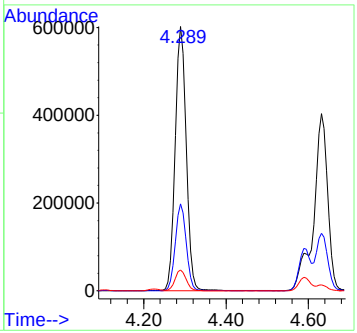


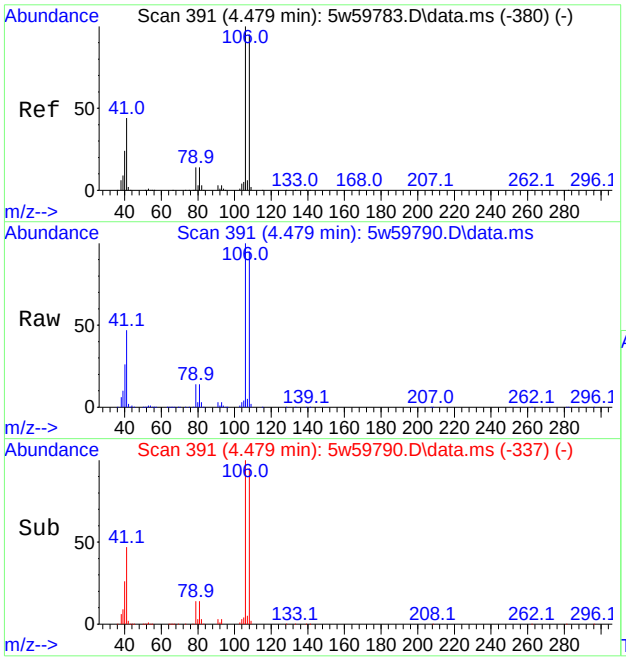


#16
DICHLOROFLUOROMETHANE
Concen: 10.94 PPBV
RT: 4.289 min Scan# 360
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 67 Resp: 1122027

Ion	Ratio	Lower	Upper
67	100		
69	32.6	22.7	42.3
47	8.0	5.6	10.4

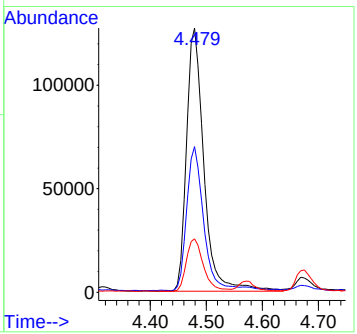


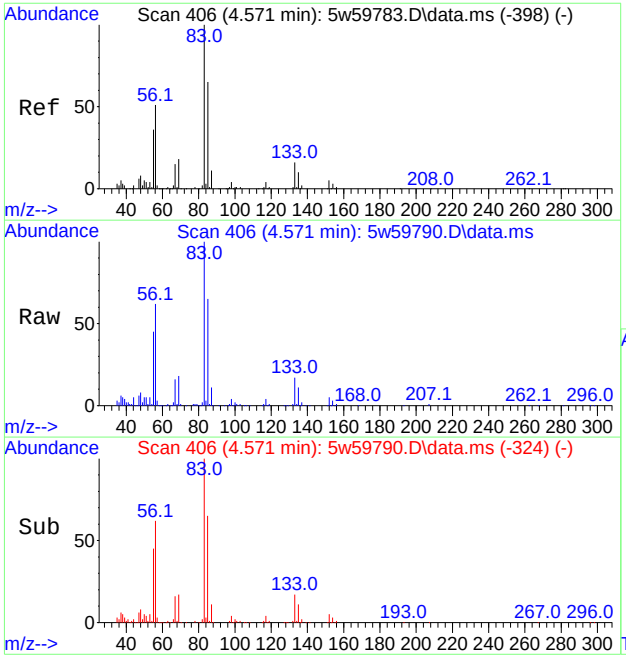


#17
ACETONITRILE
Concen: 10.09 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 41 Resp: 273749

Ion	Ratio	Lower	Upper
41	100		
40	54.2	37.9	70.5
39	19.5	13.4	24.8

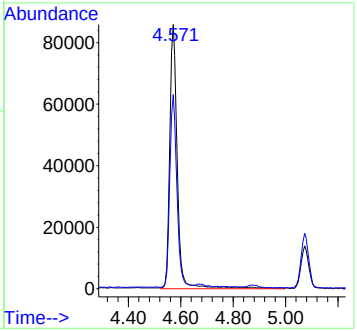


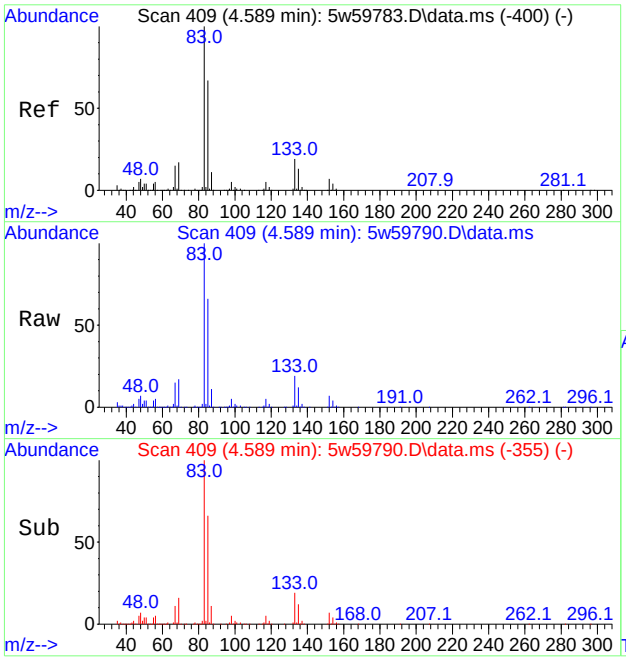


#18
ACROLEIN
Concen: 11.29 PPBV
RT: 4.571 min Scan# 406
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 56 Resp: 174000

Ion	Ratio	Lower	Upper
56	100		
55	68.2	46.6	86.6

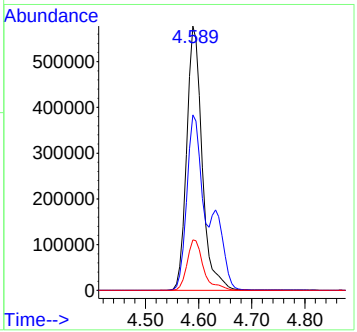


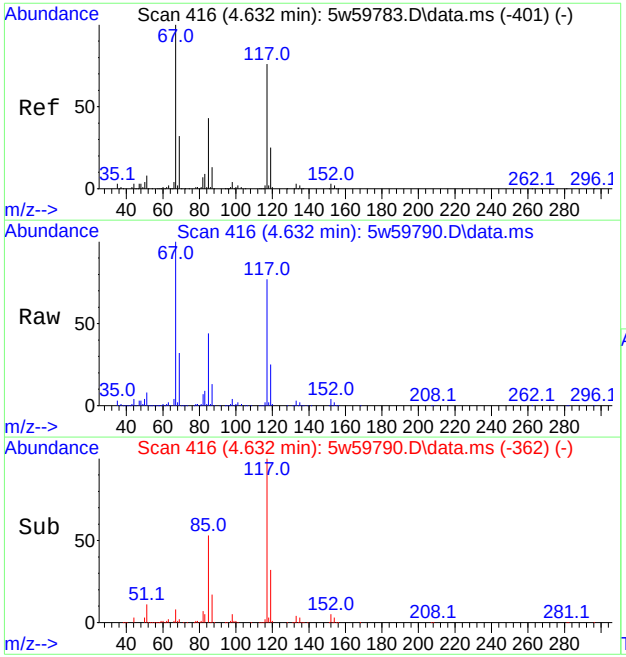


#19
FREON 123
Concen: 9.88 PPBV
RT: 4.589 min Scan# 409
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1172331

Ion	Ratio	Lower	Upper
83	100		
85	92.1	34.0	94.0
133	20.4	0.0	50.7

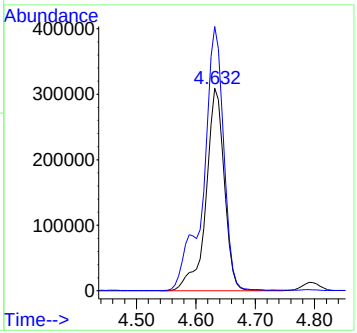


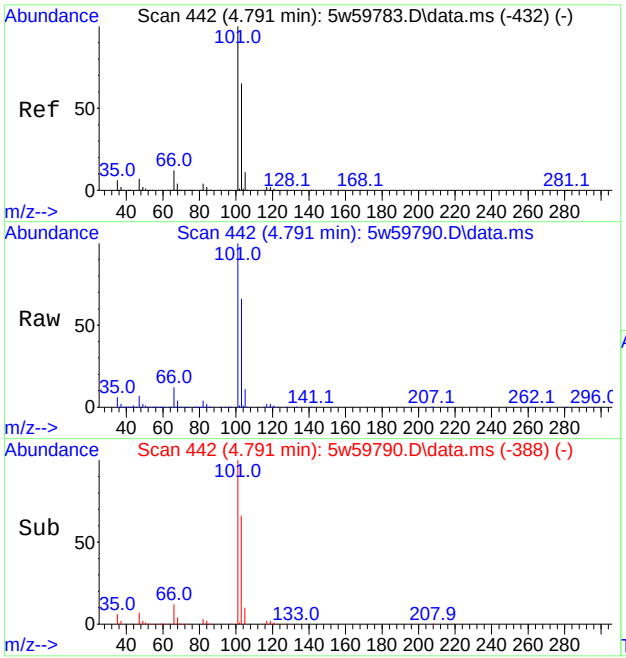


#20
FREON 123A
Concen: 9.67 PPBV
RT: 4.632 min Scan# 416
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 658691

Ion	Ratio	Lower	Upper
117	100		
67	145.1	114.6	174.6

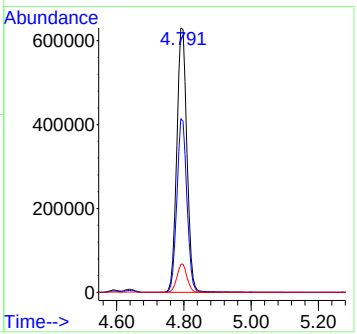


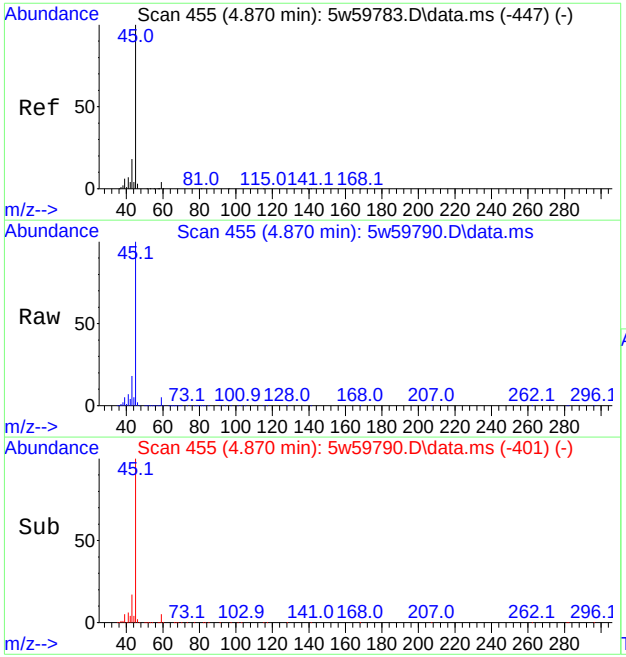


#21
TRICHLOROFLUOROMETHANE
Concen: 10.86 PPBV
RT: 4.791 min Scan# 442
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:101 Resp: 1322128

Ion	Ratio	Lower	Upper
101	100		
103	65.1	35.0	95.0
105	10.7	0.0	40.7

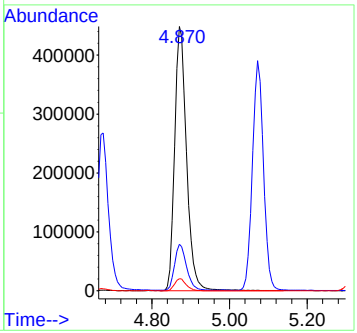


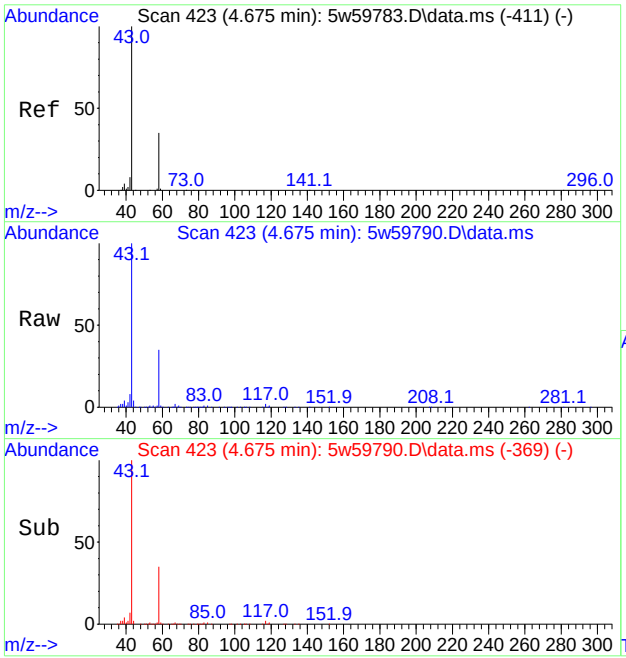


#22
ISOPROPYL ALCOHOL
Concen: 9.81 PPBV
RT: 4.870 min Scan# 455
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 957946

Ion	Ratio	Lower	Upper
45	100		
43	17.6	0.0	47.8
59	4.6	0.0	34.1

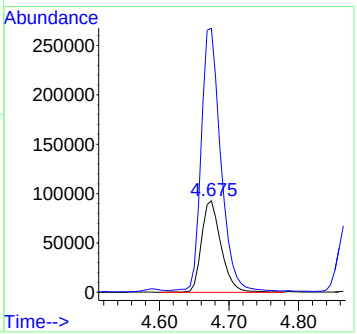


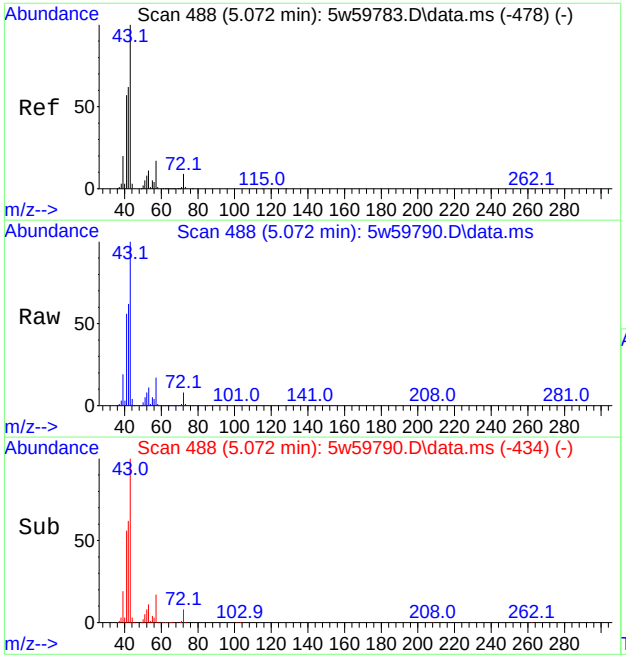


#23
ACETONE
Concen: 9.32 PPBV
RT: 4.675 min Scan# 423
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 182115

Ion	Ratio	Lower	Upper
58	100		
43	287.5	252.3	312.3

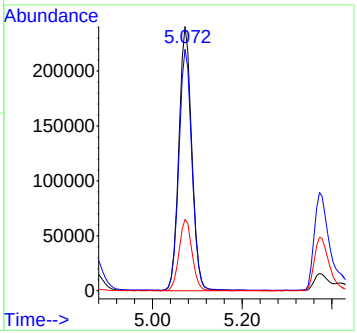


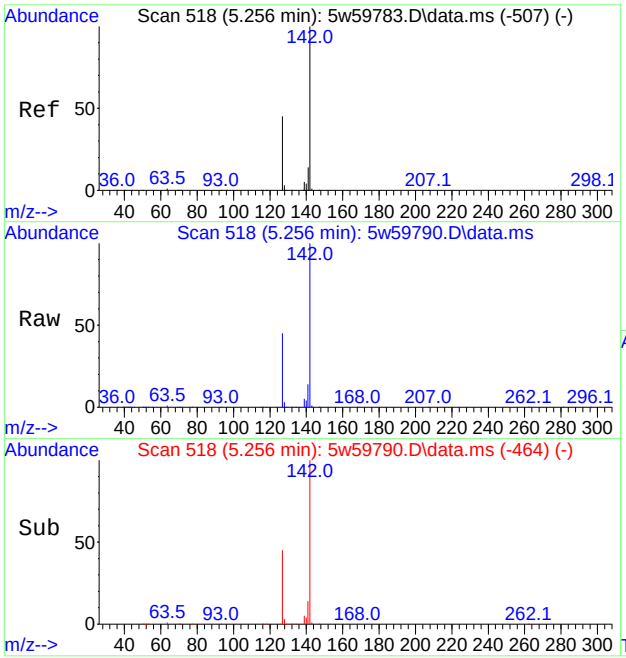


#24
PENTANE
Concen: 9.56 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 42 Resp: 485024

Ion	Ratio	Lower	Upper
42	100		
41	91.0	62.3	122.3
57	27.3	0.0	57.7

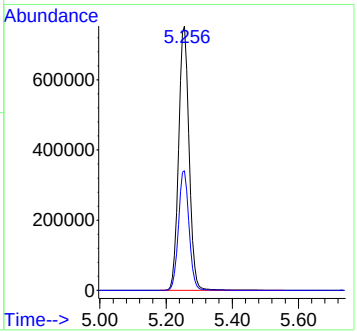


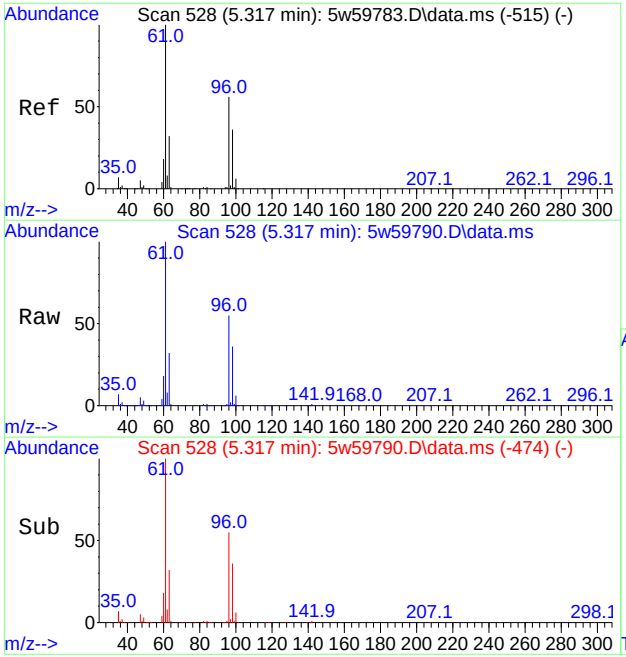


#25
IODOMETHANE
Concen: 10.92 PPBV
RT: 5.256 min Scan# 518
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:142 Resp: 1656951

Ion	Ratio	Lower	Upper
142	100		
127	45.8	16.0	76.0

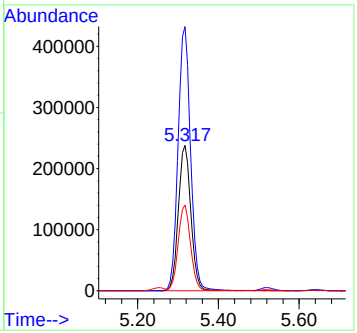


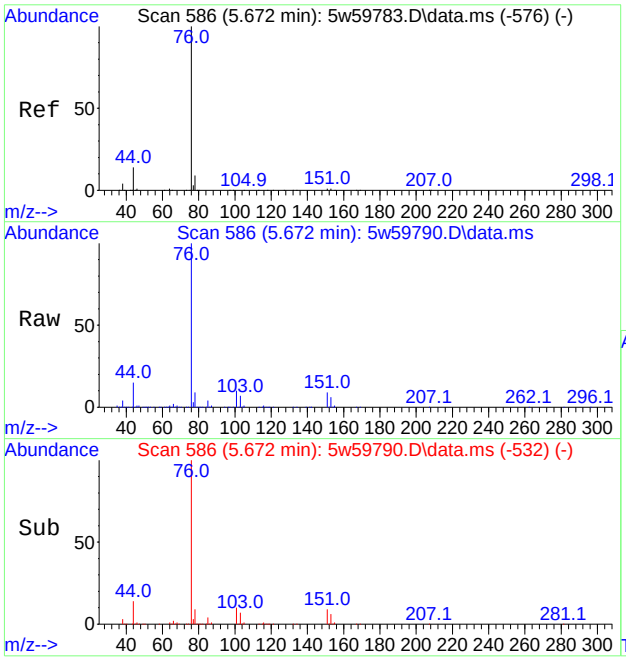


#26
1,1-DICHLOROETHYLENE
Concen: 9.62 PPBV
RT: 5.317 min Scan# 528
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 514235

Ion	Ratio	Lower	Upper
96	100		
61	180.7	148.5	208.5
63	58.0	27.4	87.4

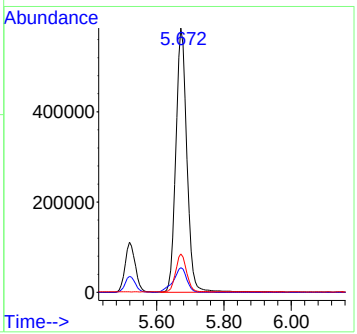


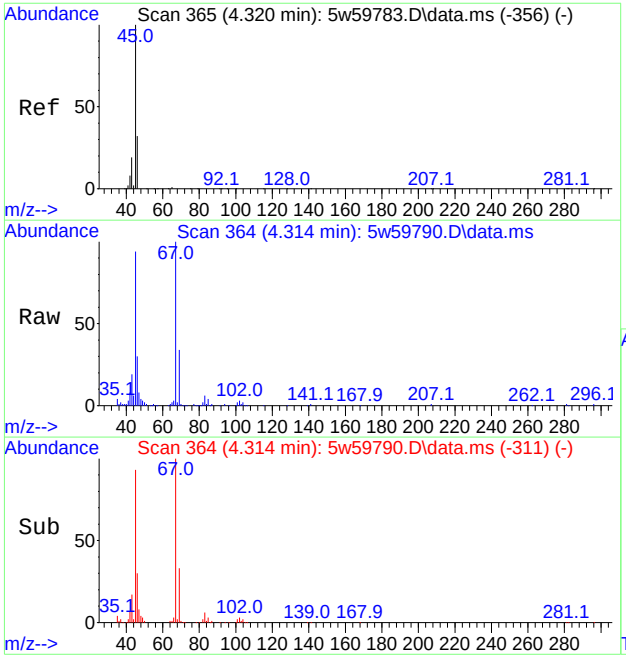


#27
CARBON DISULFIDE
Concen: 9.53 PPBV
RT: 5.672 min Scan# 586
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 1333722

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	41.5
44	14.3	0.0	44.6

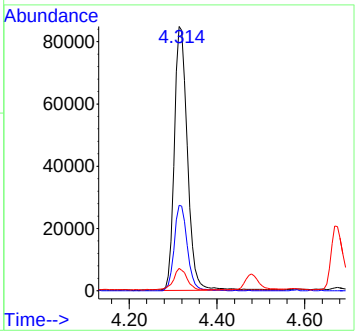


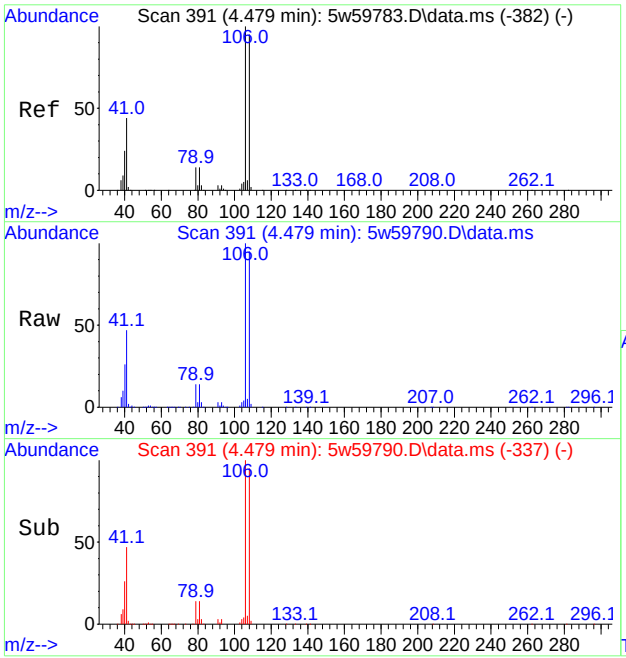


#28
ETHANOL
Concen: 10.75 PPBV
RT: 4.314 min Scan# 364
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 45 Resp: 175873

Ion	Ratio	Lower	Upper
45	100		
46	32.5	2.0	62.0
42	8.3	0.0	38.5

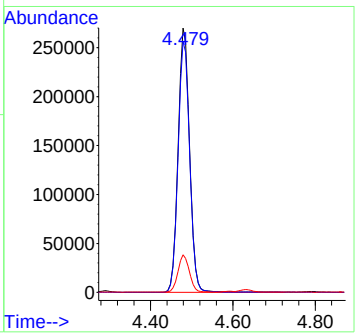


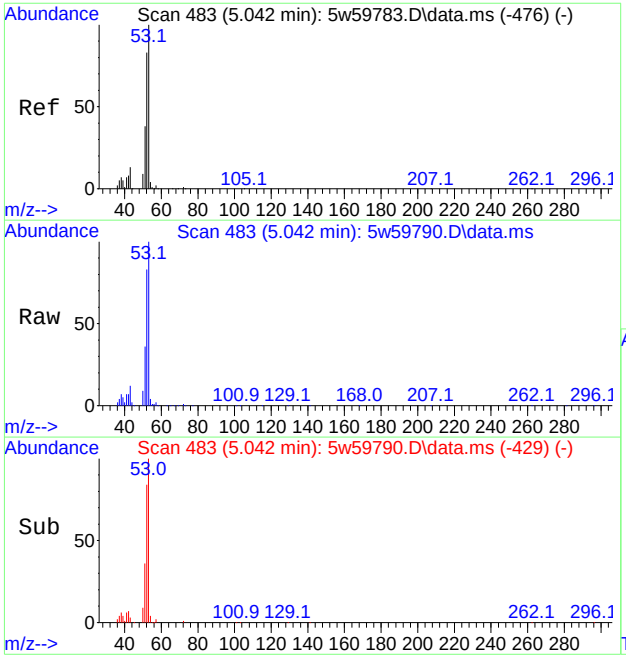


#29
BROMOETHENE
Concen: 10.35 PPBV
RT: 4.479 min Scan# 391
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 523753

Ion	Ratio	Lower	Upper
106	100		
108	95.9	65.6	125.6
81	14.0	0.0	43.9

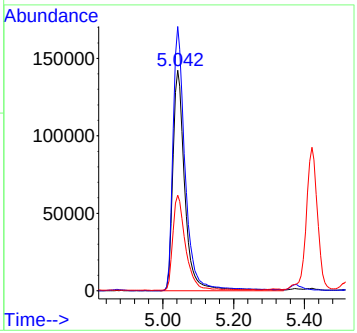


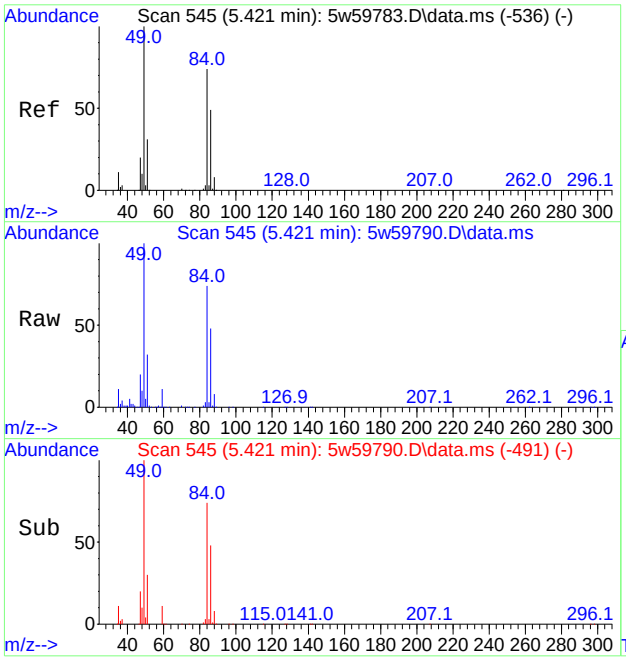


#30
ACRYLONITRILE
Concen: 10.15 PPBV
RT: 5.042 min Scan# 483
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 52 Resp: 335497

Ion	Ratio	Lower	Upper
52	100		
53	122.5	85.8	159.4
51	46.4	32.3	60.1

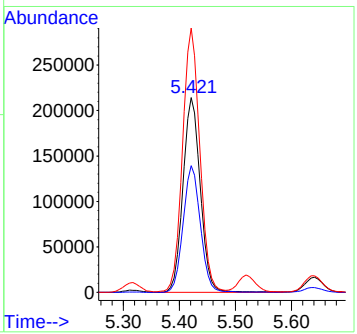


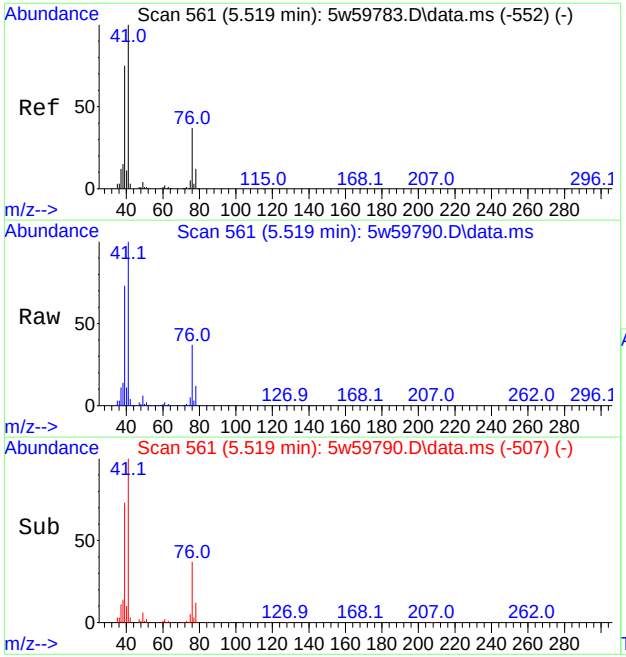


#31
METHYLENE CHLORIDE
Concen: 9.22 PPBV
RT: 5.421 min Scan# 545
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 460743

Ion	Ratio	Lower	Upper
84	100		
86	64.8	35.2	95.2
49	134.8	105.3	165.3

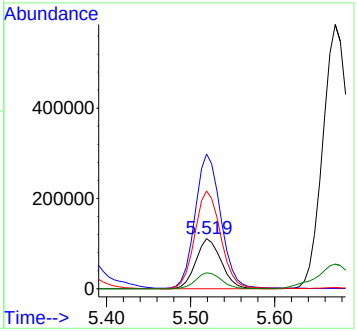


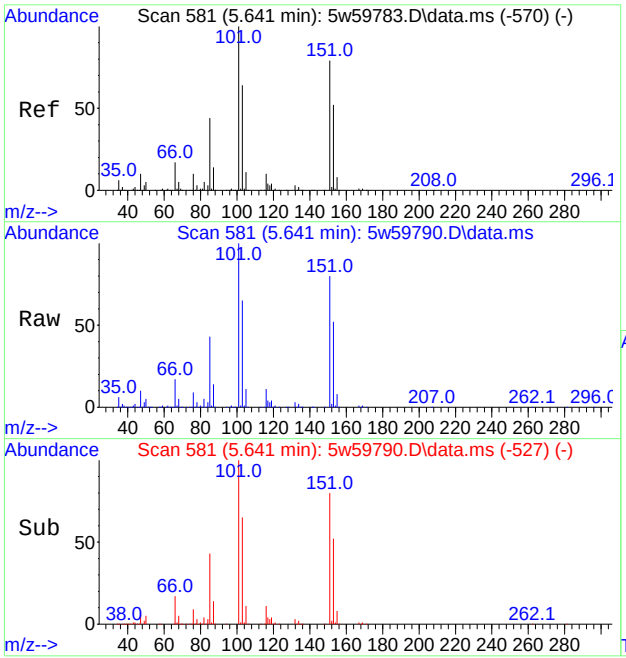


#32
3-CHLOROPROPENE
Concen: 9.77 PPBV
RT: 5.519 min Scan# 561
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 235062

Ion	Ratio	Lower	Upper
76	100		
41	271.7	240.8	300.8
39	197.9	173.6	233.6
78	32.5	2.8	62.8

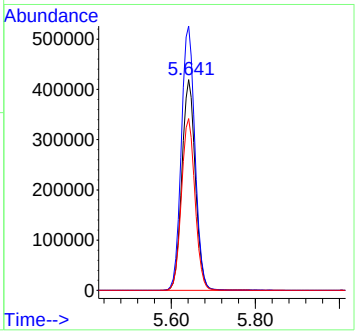


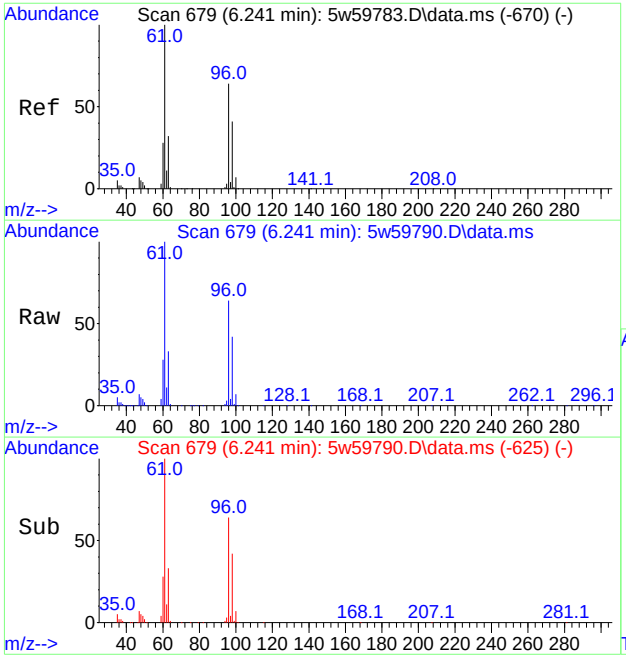


#33
FREON 113
Concen: 10.53 PPBV
RT: 5.641 min Scan# 581
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:151 Resp: 936508

Ion	Ratio	Lower	Upper
151	100		
101	126.4	97.5	157.5
103	82.0	52.5	112.5

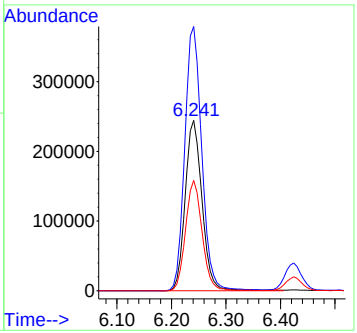


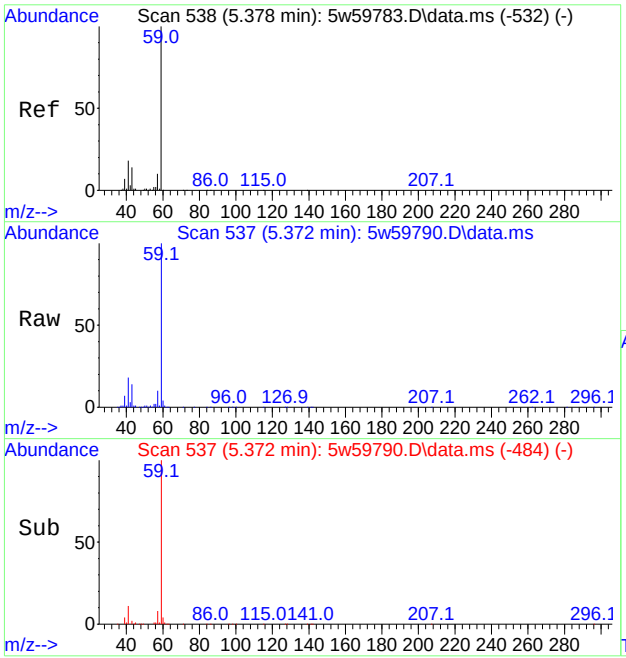


#34
TRANS-1,2-DICHLOROETHYLENE
Concen: 9.34 PPBV
RT: 6.241 min Scan# 679
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 523452

Ion	Ratio	Lower	Upper
96	100		
61	156.5	126.4	186.4
98	63.9	34.1	94.1

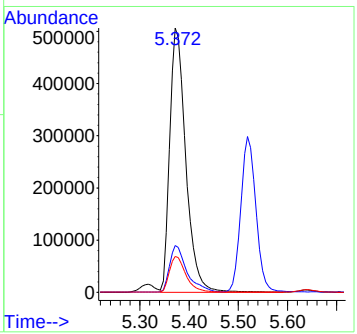


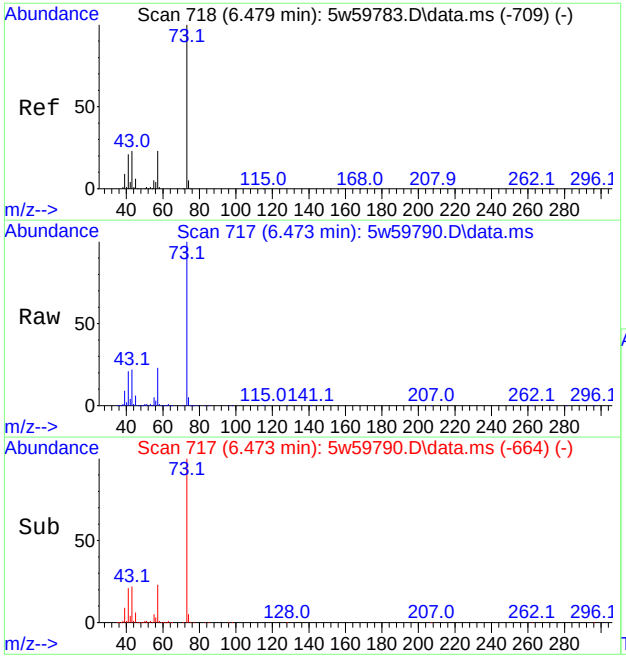


#35
TERTIARY BUTYL ALCOHOL
Concen: 11.52 PPBV
RT: 5.372 min Scan# 537
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 1150749

Ion	Ratio	Lower	Upper
59	100		
41	19.0	0.0	49.3
43	13.9	0.0	44.1

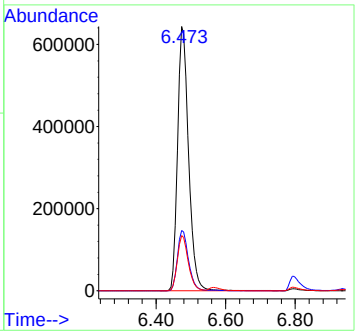


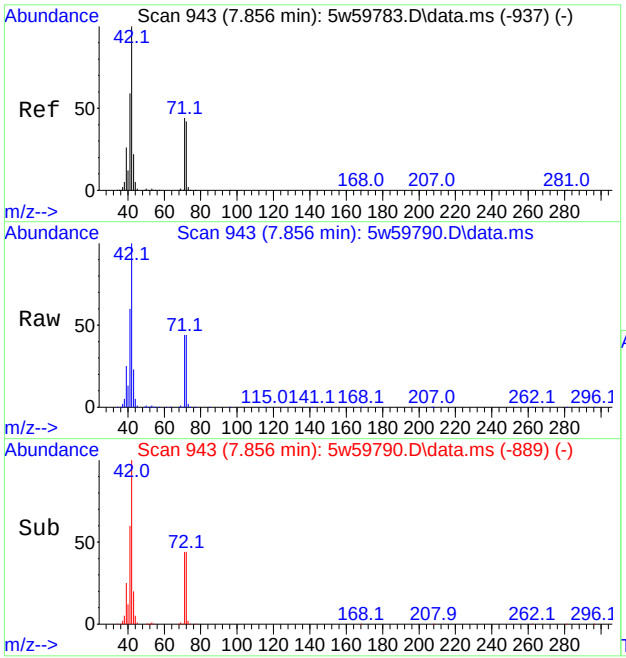


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.10 PPBV
RT: 6.473 min Scan# 717
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 73 Resp: 1424107

Ion	Ratio	Lower	Upper
73	100		
57	23.2	0.0	53.1
41	20.7	0.0	50.6

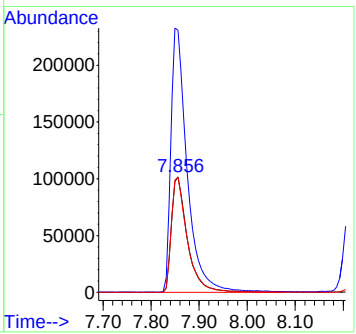


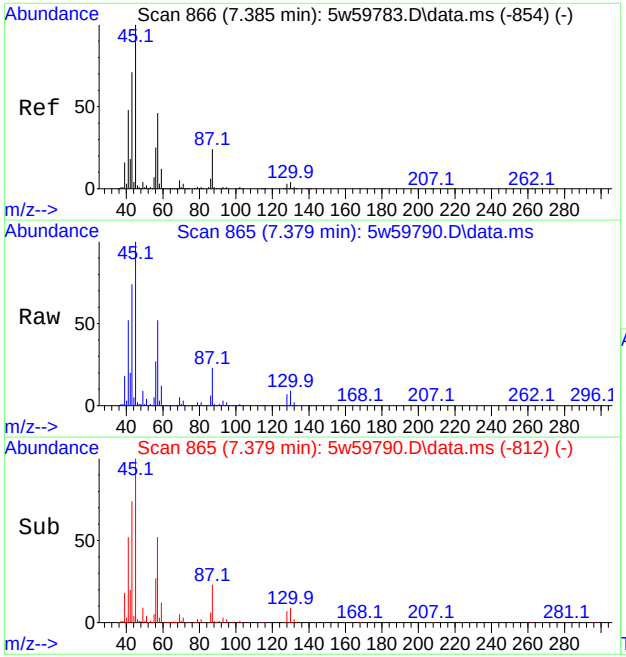


#37
TETRAHYDROFURAN
Concen: 12.20 PPBV
RT: 7.856 min Scan# 943
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 236078

Ion	Ratio	Lower	Upper
72	100		
42	233.9	202.4	262.4
71	99.8	71.1	131.1

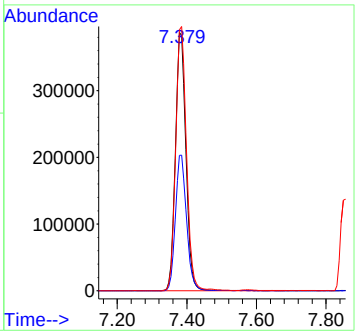


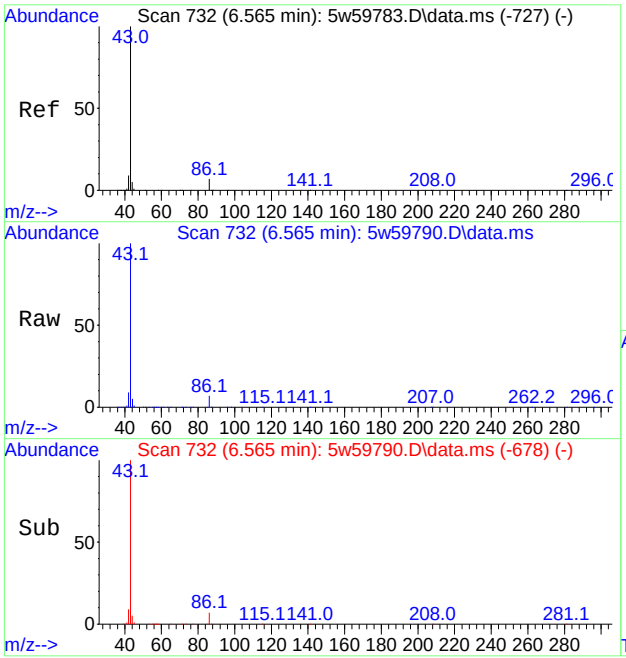


#38
HEXANE
Concen: 10.24 PPBV
RT: 7.379 min Scan# 865
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 814752

Ion	Ratio	Lower	Upper
57	100		
56	55.7	25.9	85.9
41	104.6	74.7	134.7

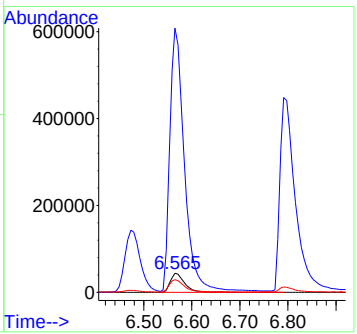


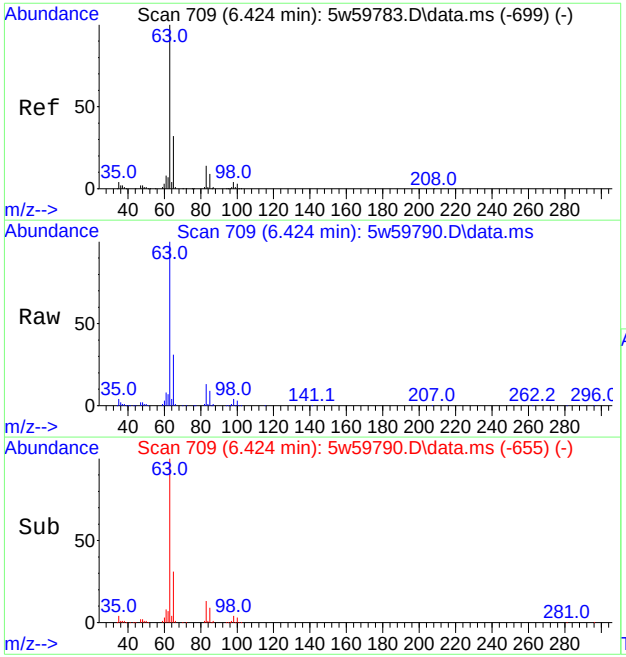


#39
VINYL ACETATE
Concen: 11.55 PPBV
RT: 6.565 min Scan# 732
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 86 Resp: 92915

Ion	Ratio	Lower	Upper
86	100		
43	1372.6	1379.7	1439.7#
44	66.6	36.9	96.9

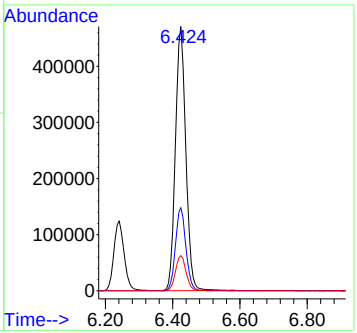


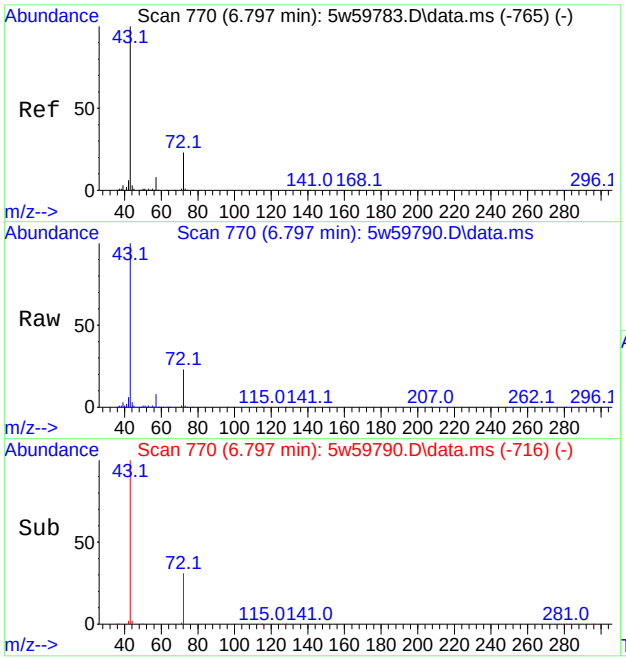


#40
1,1-DICHLOROETHANE
Concen: 9.85 PPBV
RT: 6.424 min Scan# 709
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 1012856

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.7	61.7
83	13.5	0.0	43.5

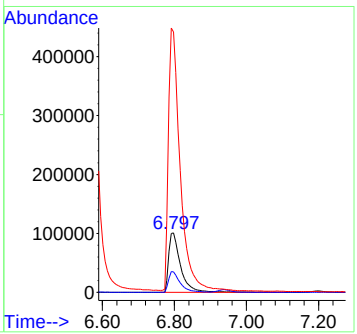


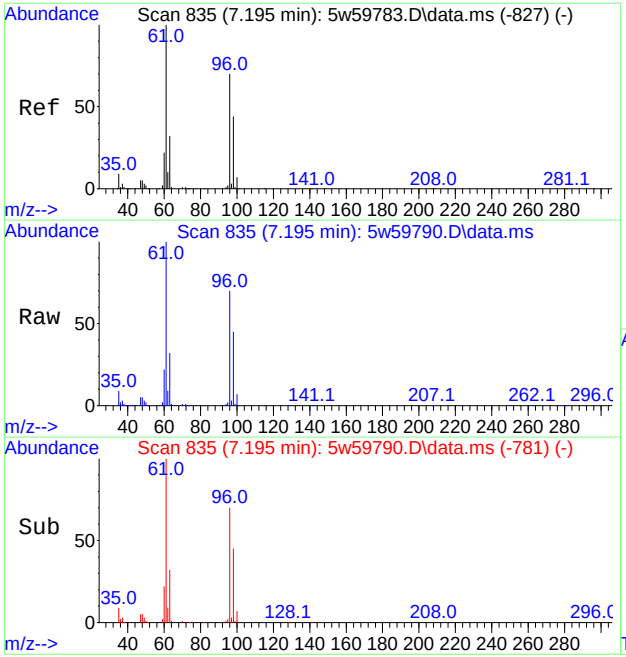


#41
METHYL ETHYL KETONE
Concen: 12.04 PPBV
RT: 6.797 min Scan# 770
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 72 Resp: 231727

Ion	Ratio	Lower	Upper
72	100		
57	34.8	4.8	64.8
43	438.5	415.9	475.9

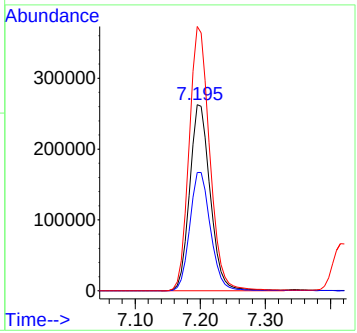


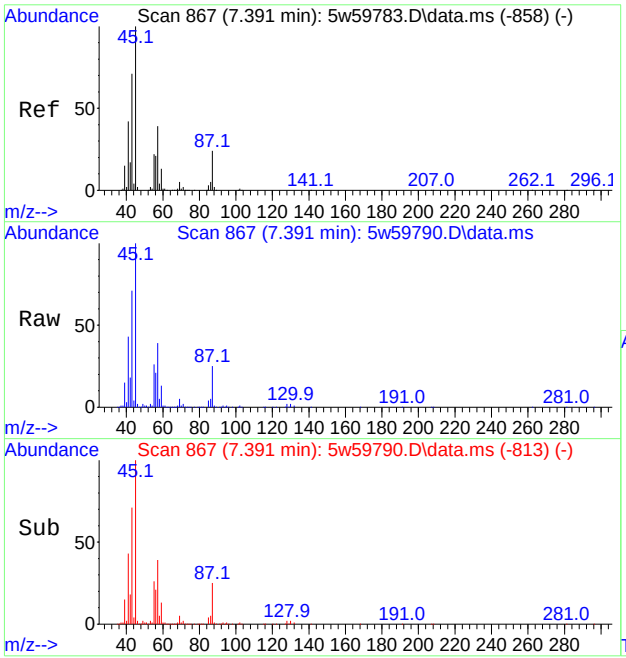


#42
cis-1,2-DICHLOROETHYLENE
Concen: 9.43 PPBV
RT: 7.195 min Scan# 835
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 96 Resp: 576053

Ion	Ratio	Lower	Upper
96	100		
98	64.4	34.0	94.0
61	142.6	111.5	171.5

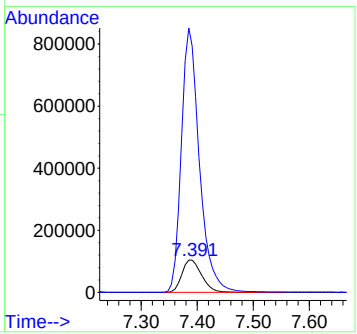


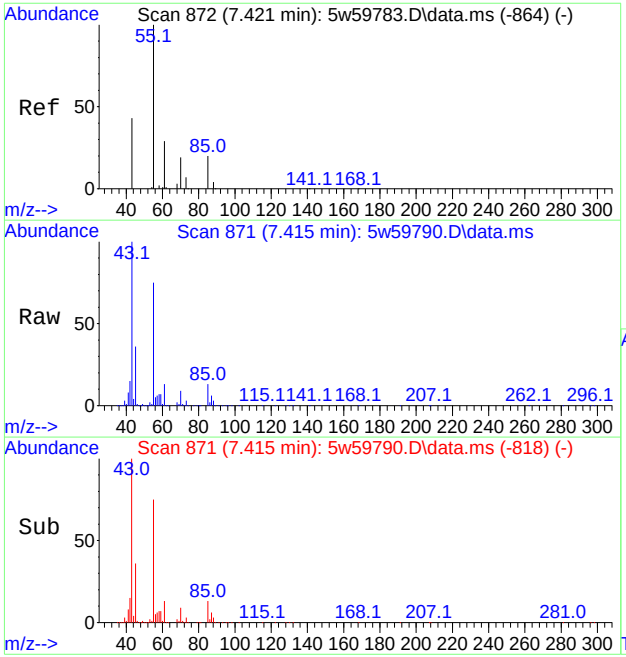


#43
DIISOPROPYL ETHER
Concen: 12.23 PPBV
RT: 7.391 min Scan# 867
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 59 Resp: 255743

Ion	Ratio	Lower	Upper
59	100		
45	748.7	720.9	780.9

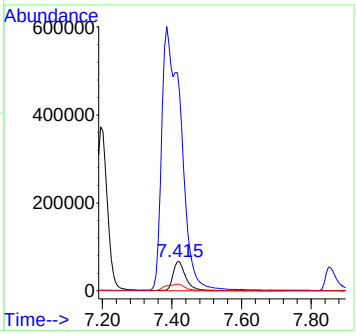


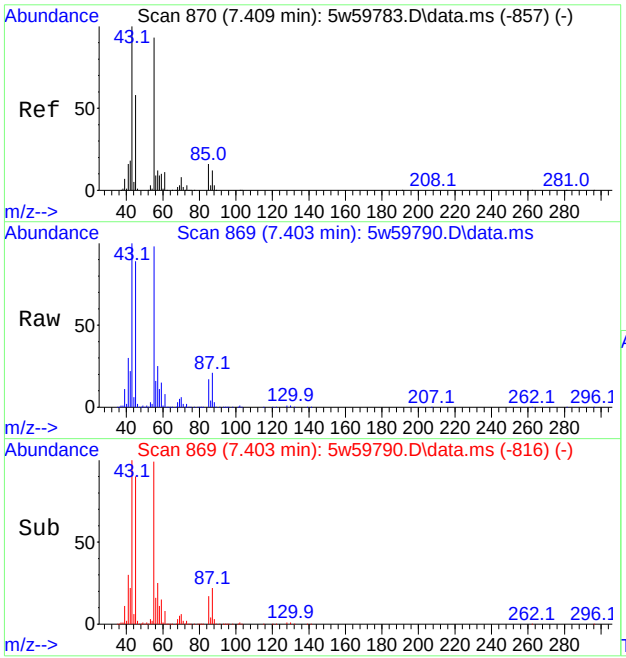


#44
ETHYL ACETATE
Concen: 11.56 PPBV
RT: 7.415 min Scan# 871
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 61 Resp: 170036

Ion	Ratio	Lower	Upper
61	100		
43	0.0	560.5	620.5#
88	35.7	4.5	64.5

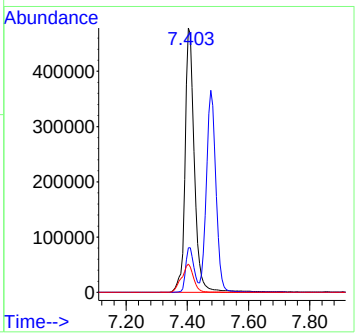


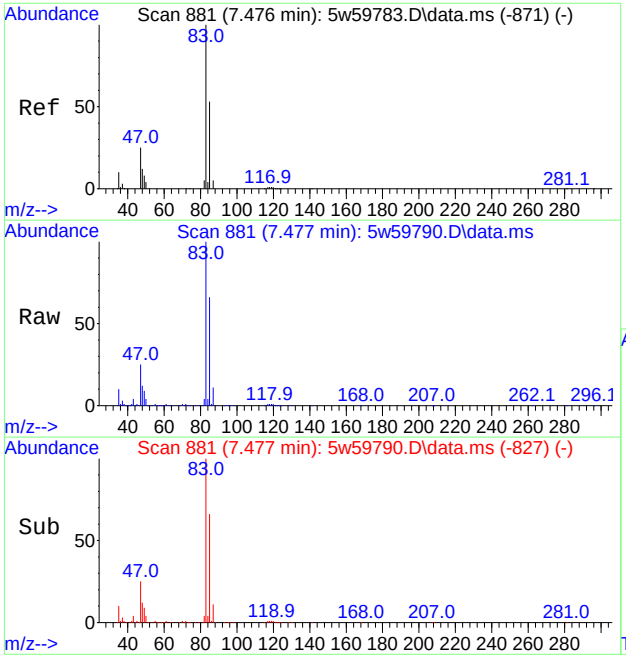


#45
METHYL ACRYLATE
Concen: 12.95 PPBV
RT: 7.403 min Scan# 869
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1019941

Ion	Ratio	Lower	Upper
55	100		
85	15.6	10.9	20.3
58	13.7	9.4	17.6

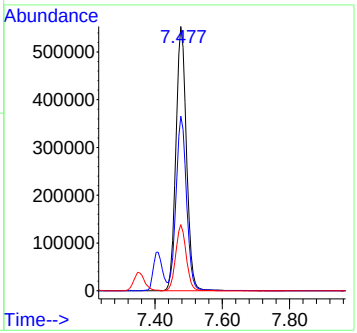


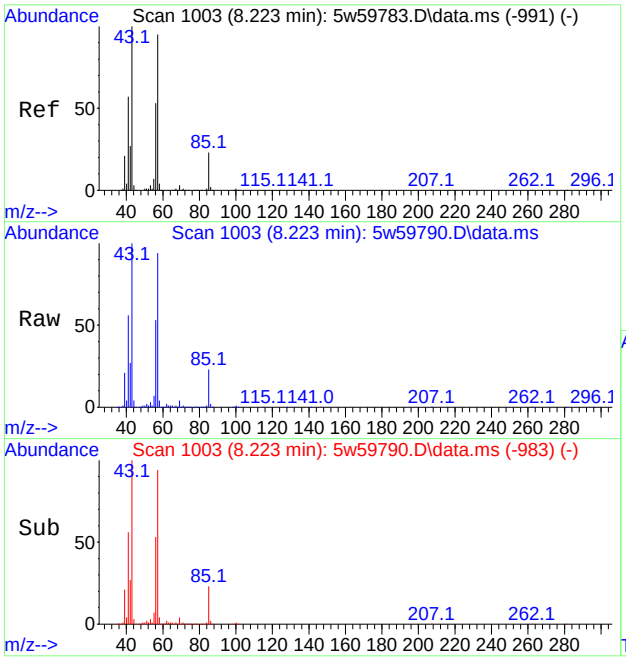


#46
CHLOROFORM
Concen: 10.89 PPBV
RT: 7.477 min Scan# 881
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1206541

Ion	Ratio	Lower	Upper
83	100		
85	65.8	35.6	95.6
47	24.9	0.0	55.2

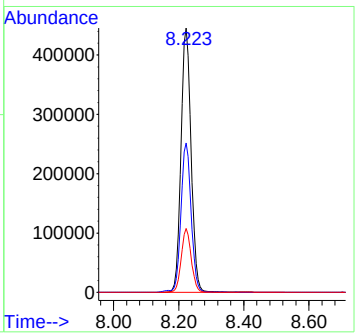


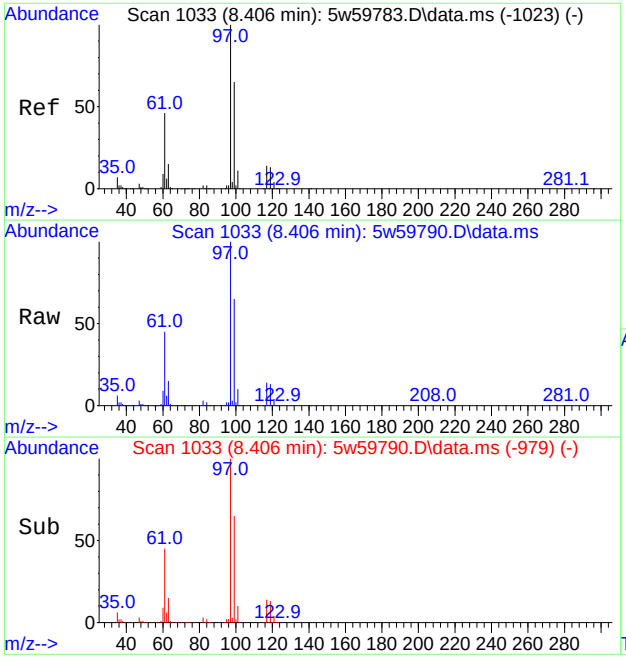


#47
2,4-DIMETHYLPENTANE
Concen: 10.74 PPBV
RT: 8.223 min Scan# 1003
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 967097

Ion	Ratio	Lower	Upper
57	100		
56	57.2	26.5	86.5
85	23.9	0.0	53.8

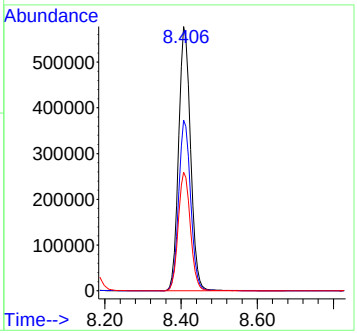


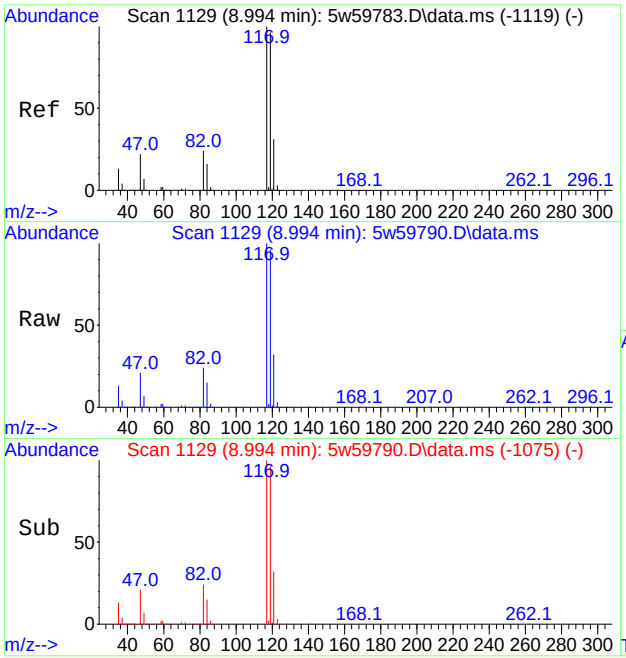


#48
1,1,1-TRICHLOROETHANE
Concen: 10.90 PPBV
RT: 8.406 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 97 Resp: 1259183

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.8	94.8
61	45.8	15.8	75.8

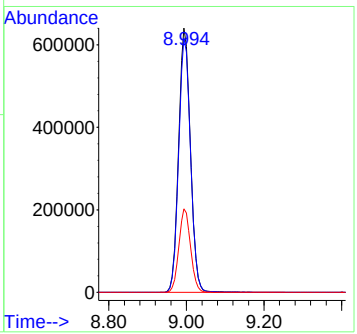


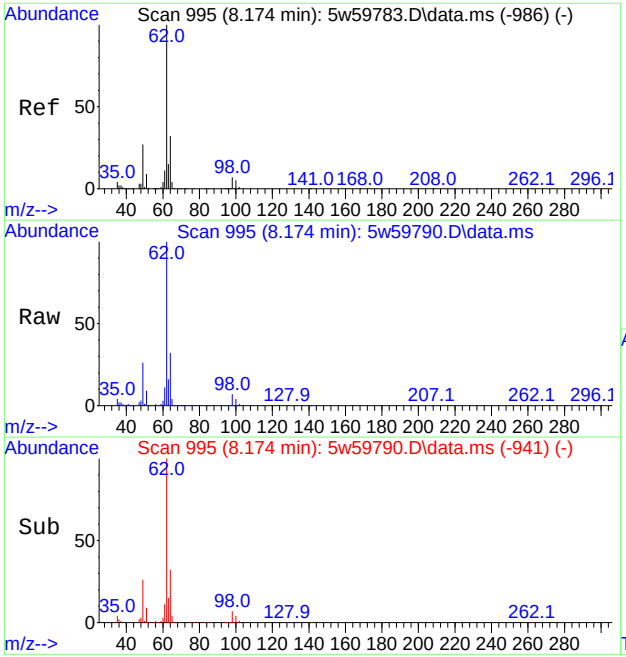


#49
CARBON TETRACHLORIDE
Concen: 10.85 PPBV
RT: 8.994 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1361951

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.9	126.9
121	31.3	1.3	61.3

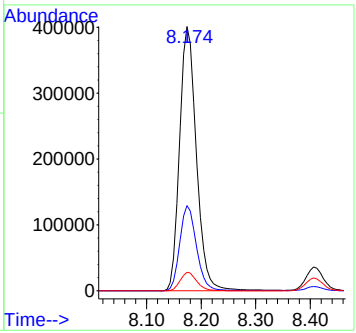


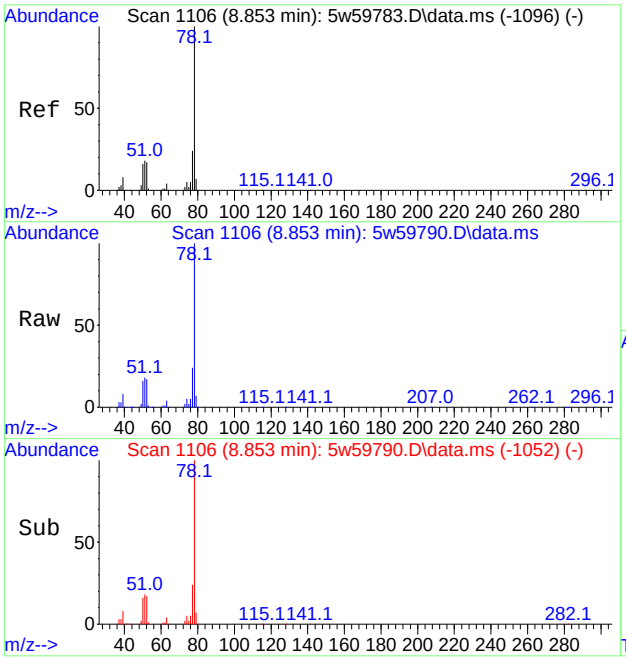


#50
1,2-DICHLOROETHANE
Concen: 11.15 PPBV
RT: 8.174 min Scan# 995
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 62 Resp: 857881

Ion	Ratio	Lower	Upper
62	100		
64	32.2	2.3	62.3
98	6.9	0.0	36.9

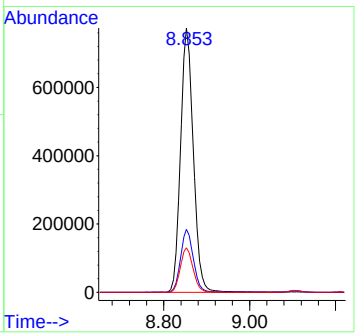


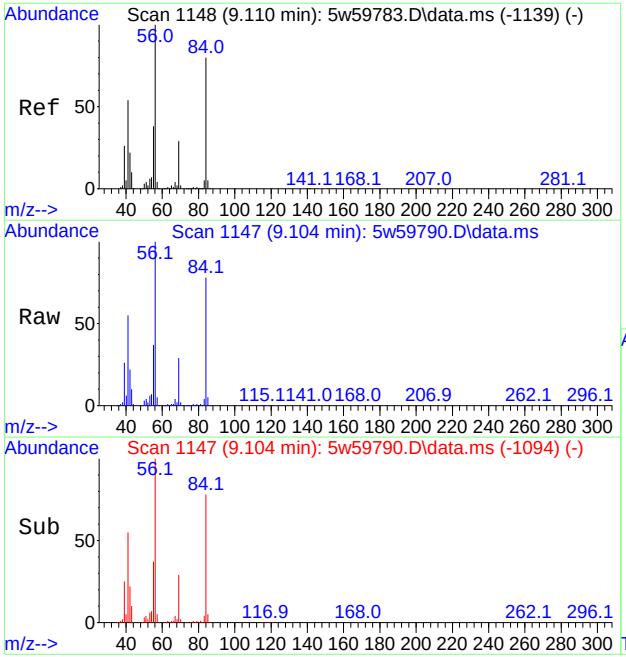


#52
BENZENE
Concen: 11.05 PPBV
RT: 8.853 min Scan# 1106
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 78 Resp: 1601042

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.8
52	16.9	0.0	46.9

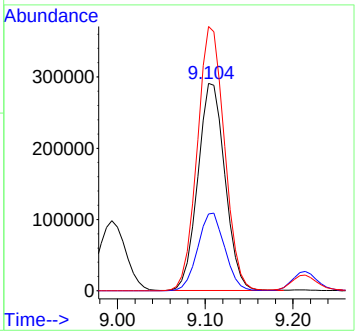


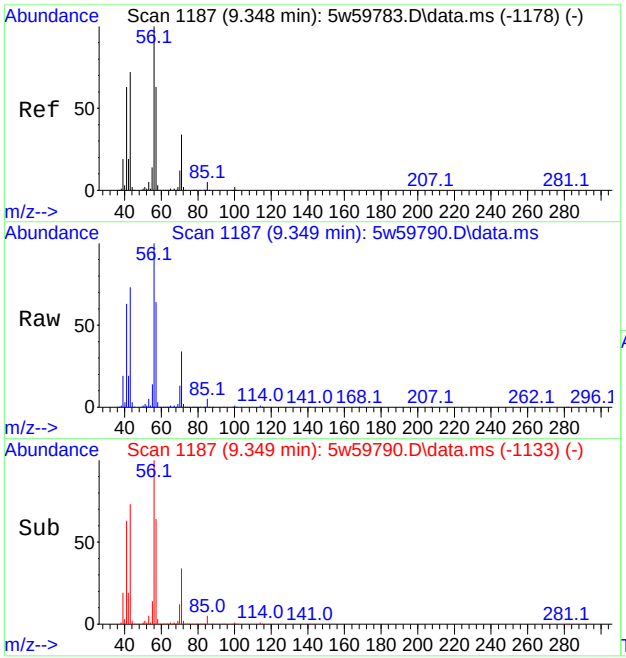


#53
CYCLOHEXANE
Concen: 10.78 PPBV
RT: 9.104 min Scan# 1147
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 84 Resp: 624324

Ion	Ratio	Lower	Upper
84	100		
69	37.5	6.9	66.9
56	128.3	98.2	158.2

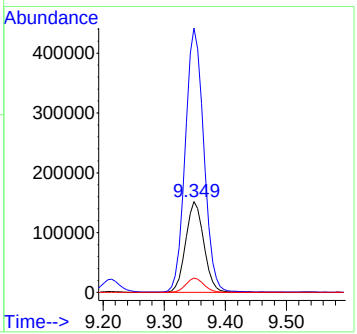


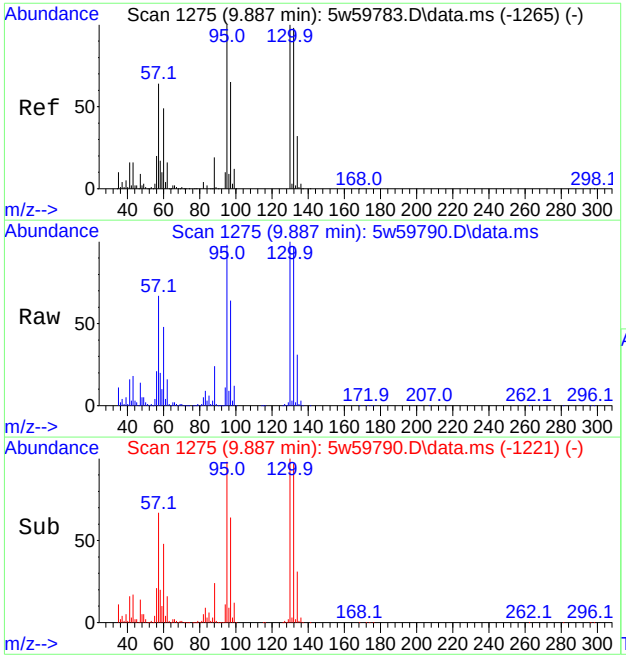


#54
2,3-DIMETHYLPENTANE
Concen: 10.75 PPBV
RT: 9.349 min Scan# 1187
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 71 Resp: 314676

Ion	Ratio	Lower	Upper
71	100		
56	298.0	264.6	324.6
85	15.5	0.0	45.3

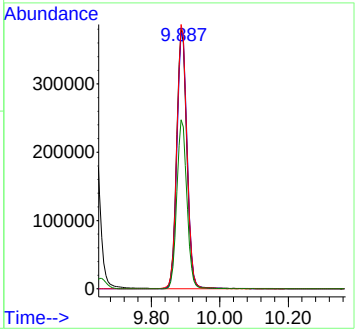


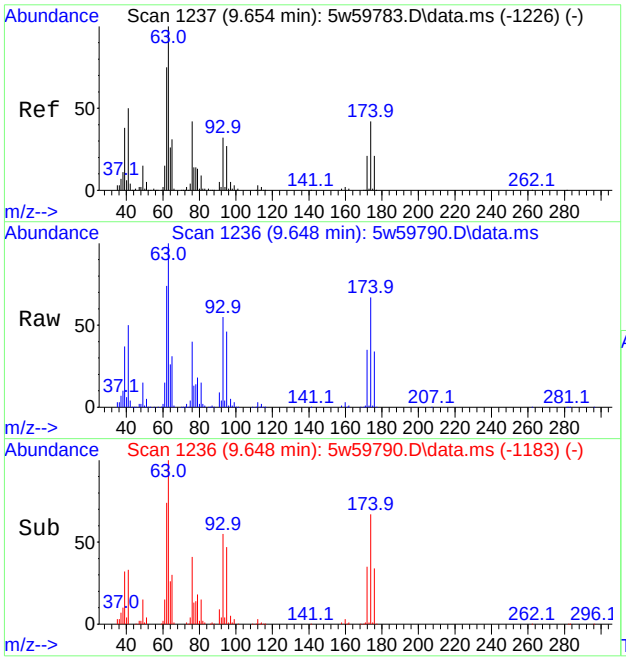


#55
TRICHLOROETHYLENE
Concen: 10.60 PPBV
RT: 9.887 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 95 Resp: 782511

Ion	Ratio	Lower	Upper
95	100		
132	99.7	69.0	129.0
130	101.7	70.6	130.6
97	65.0	34.6	94.6

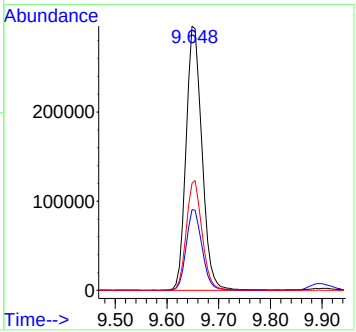


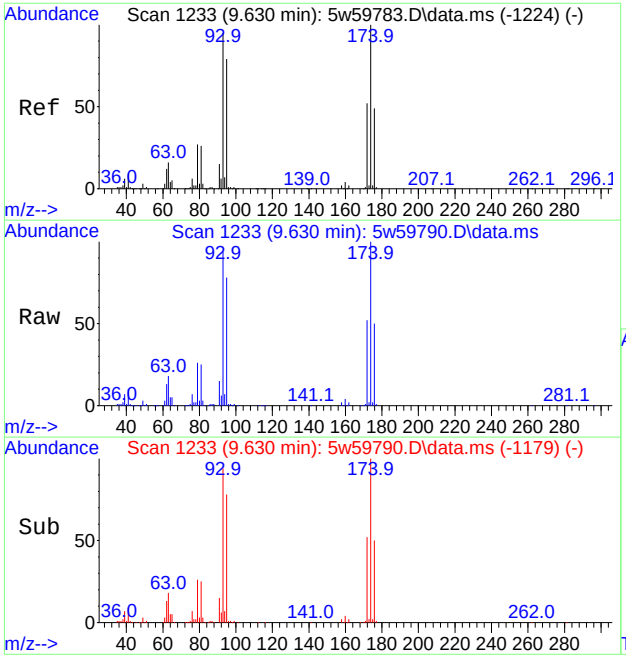


#56
1,2-DICHLOROPROPANE
Concen: 9.43 PPBV
RT: 9.648 min Scan# 1236
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 63 Resp: 634380

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5
76	41.1	11.5	71.5

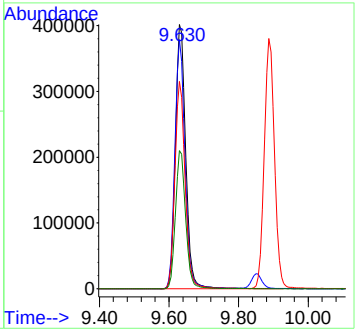


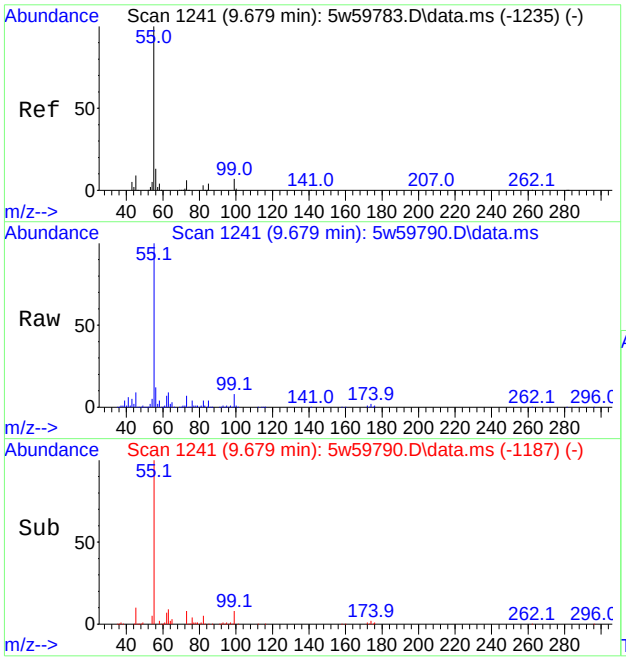


#57
DIBROMOMETHANE
Concen: 10.02 PPBV
RT: 9.630 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:174 Resp: 826704

Ion	Ratio	Lower	Upper
174	100		
93	93.2	65.0	120.6
95	78.3	54.5	101.1
172	52.1	36.3	67.5

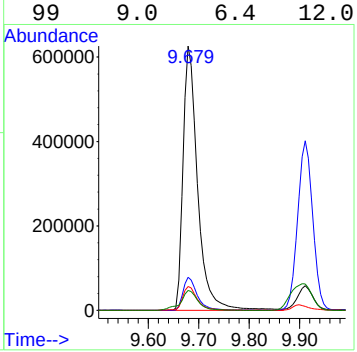


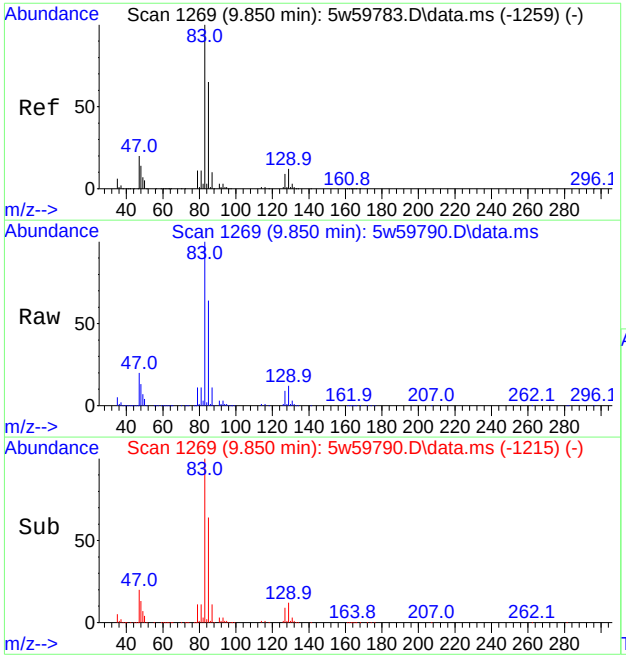


#58
ETHYL ACRYLATE
Concen: 11.98 PPBV
RT: 9.679 min Scan# 1241
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 55 Resp: 1259813

Ion	Ratio	Lower	Upper
55	100		
56	12.4	8.6	16.0
45	9.4	6.6	12.2
99	9.0	6.4	12.0

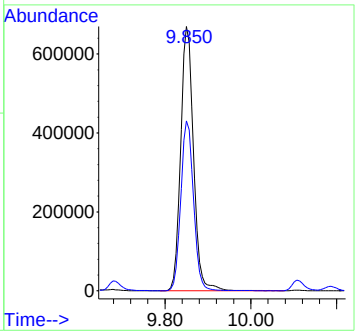


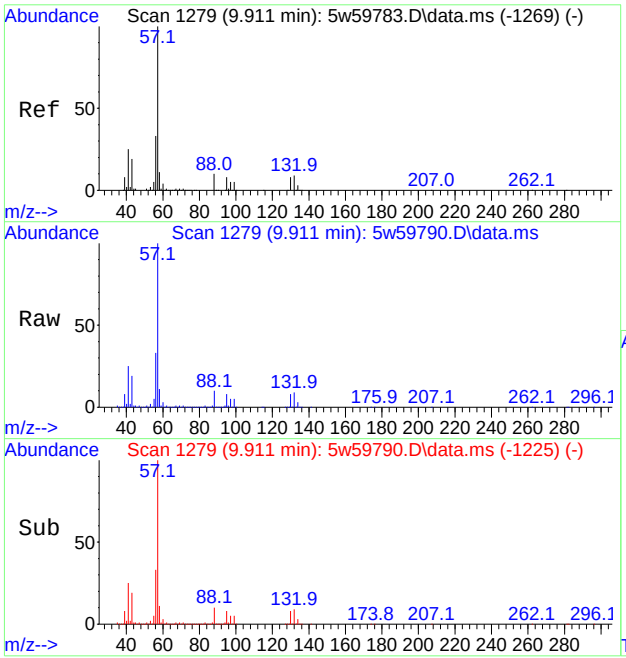


#59
BROMODICHLOROMETHANE
Concen: 10.86 PPBV
RT: 9.850 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1390089

Ion	Ratio	Lower	Upper
83	100		
85	63.5	33.4	93.4

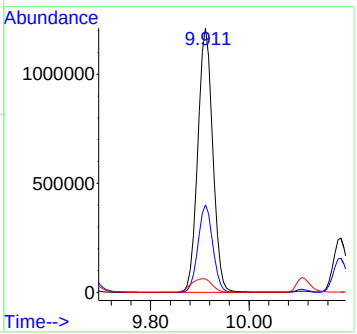


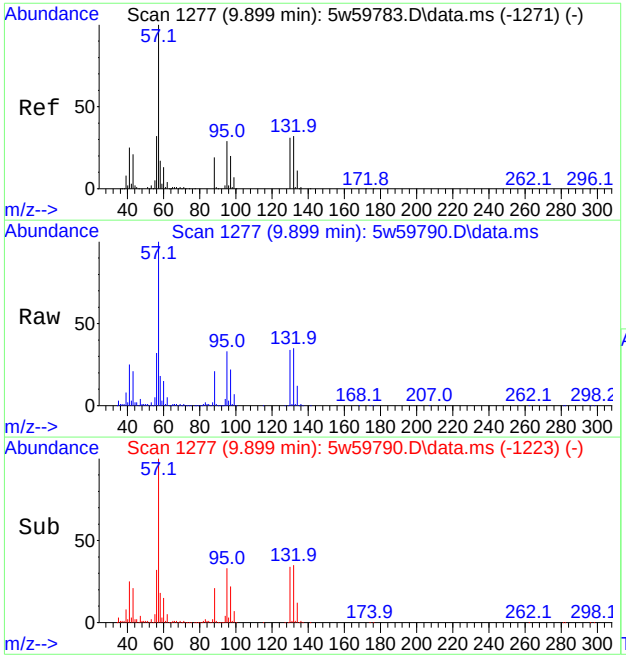


#60
2,2,4-TRIMETHYLPENTANE
Concen: 11.14 PPBV
RT: 9.911 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 57 Resp: 2555629

Ion	Ratio	Lower	Upper
57	100		
56	32.6	2.5	62.5
99	7.3	0.0	37.3

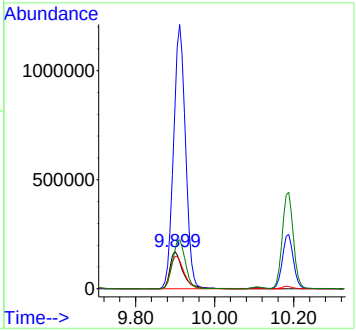


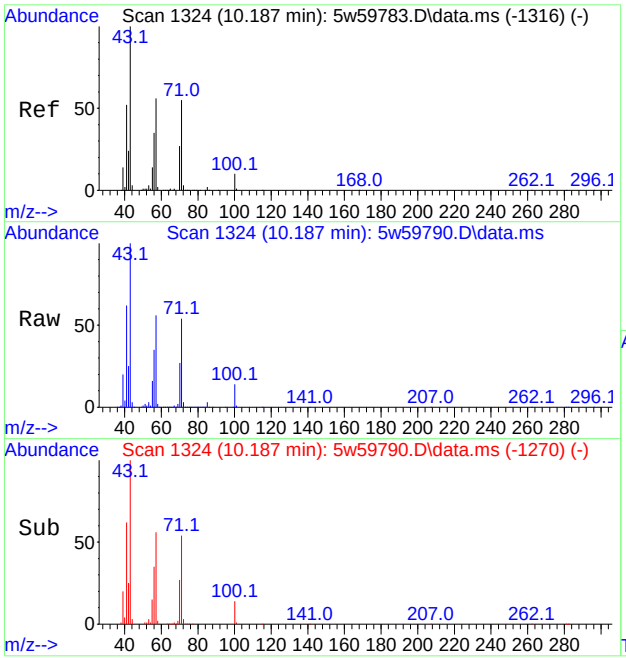


#61
1,4-DIOXANE
Concen: 11.81 PPBV
RT: 9.899 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 88 Resp: 390530

Ion	Ratio	Lower	Upper
88	100		
57	486.3	494.2	554.2#
58	86.9	58.9	118.9
43	103.0	78.3	138.3

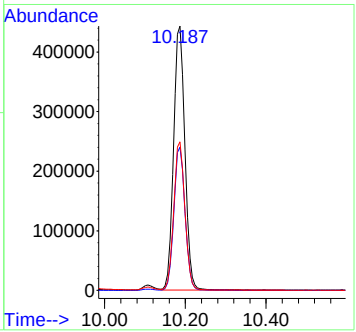


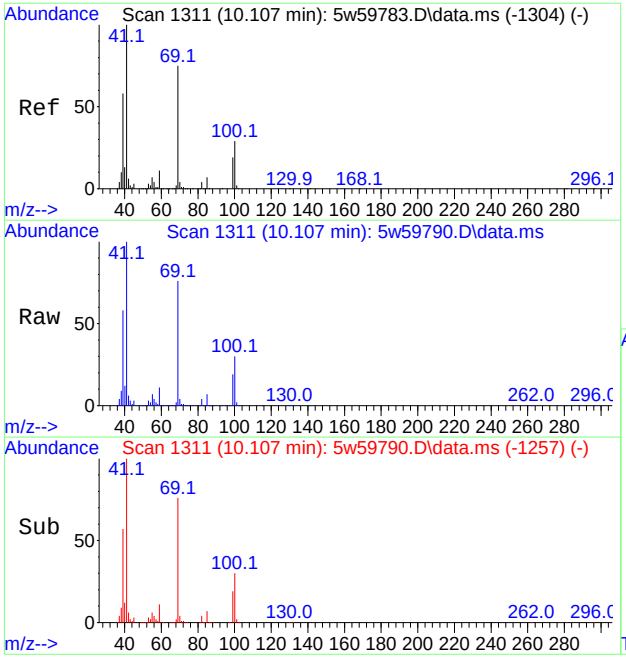


#62
HEPTANE
Concen: 10.33 PPBV
RT: 10.187 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 861635

Ion	Ratio	Lower	Upper
43	100		
71	53.8	24.5	84.5
57	56.1	26.2	86.2

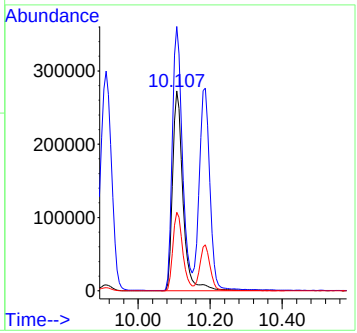


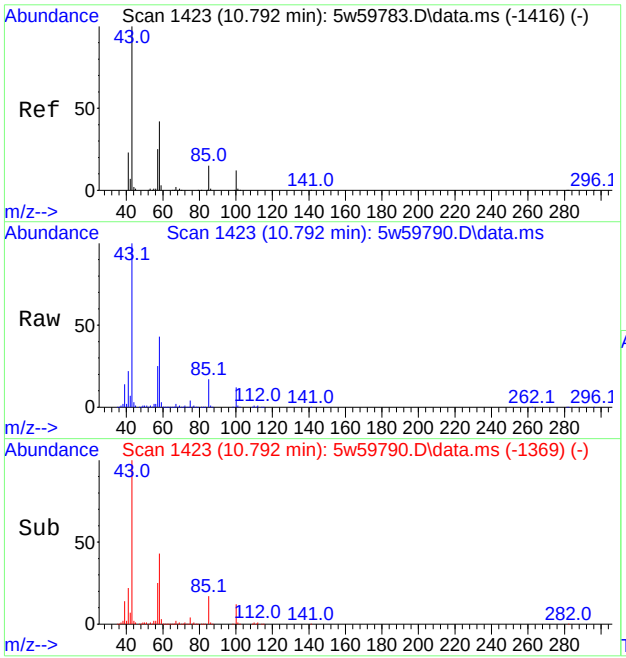


#63
METHYL METHACRYLATE
Concen: 11.70 PPBV
RT: 10.107 min Scan# 1311
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 552495

Ion	Ratio	Lower	Upper
69	100		
41	125.2	95.3	155.3
100	36.8	6.3	66.3

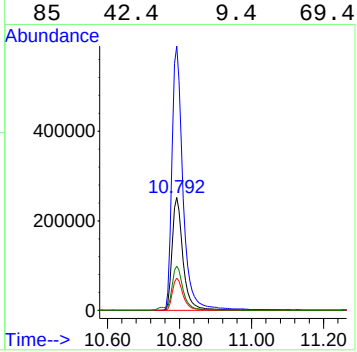


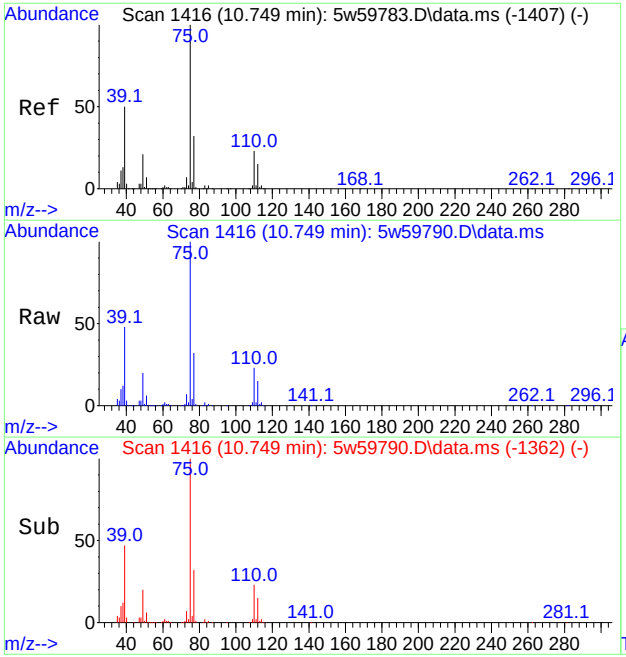


#64
METHYL ISOBUTYL KETONE
Concen: 12.46 PPBV
RT: 10.792 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 532725

Ion	Ratio	Lower	Upper
58	100		
43	237.9	209.2	269.2
100	28.7	0.0	58.8
85	42.4	9.4	69.4

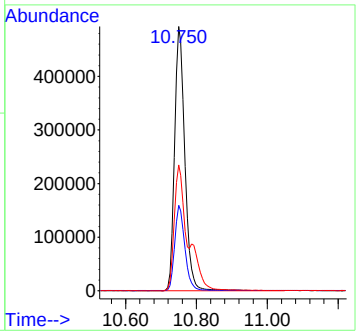


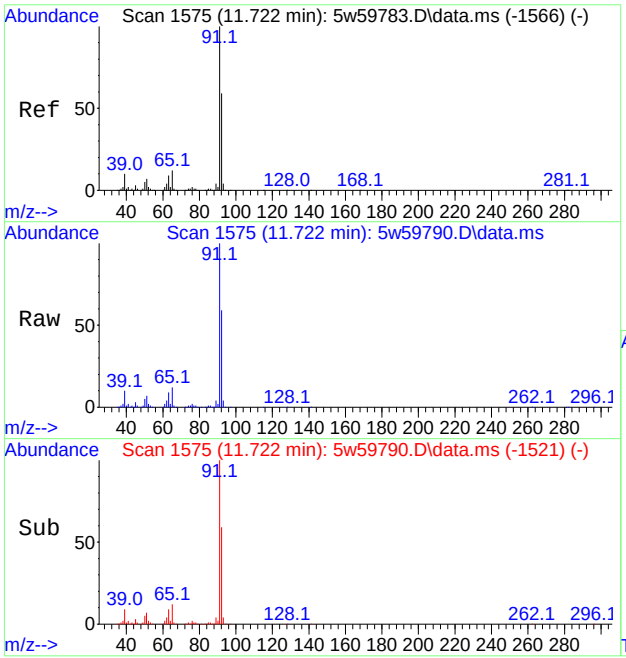


#65
cis-1,3-DICHLOROPROPENE
Concen: 9.61 PPBV
RT: 10.749 min Scan# 1416
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 990327

Ion	Ratio	Lower	Upper
75	100		
77	32.2	2.2	62.2
39	64.0	34.3	94.3

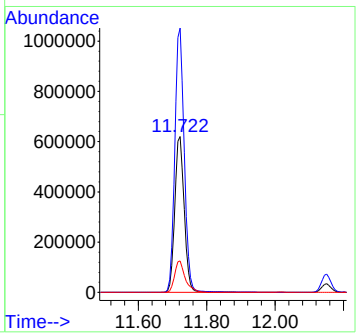


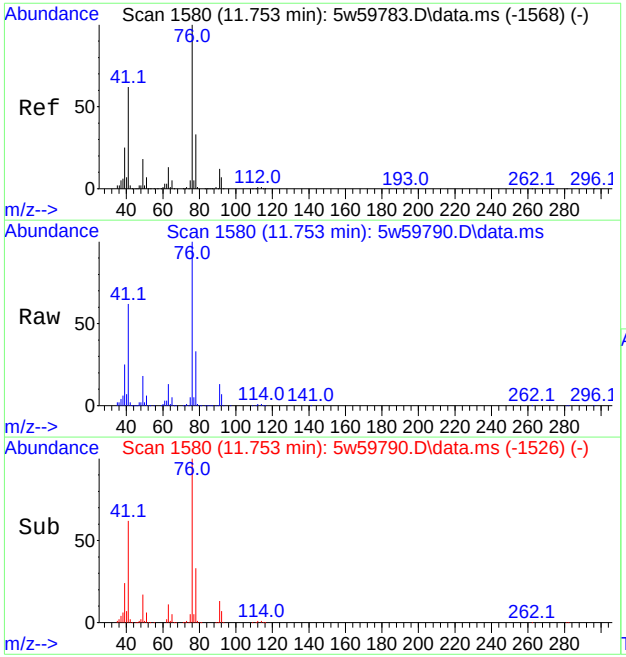


#66
TOLUENE
Concen: 11.05 PPBV
RT: 11.722 min Scan# 1575
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 92 Resp: 1196655

Ion	Ratio	Lower	Upper
92	100		
91	169.3	140.1	200.1
65	22.9	0.0	53.1

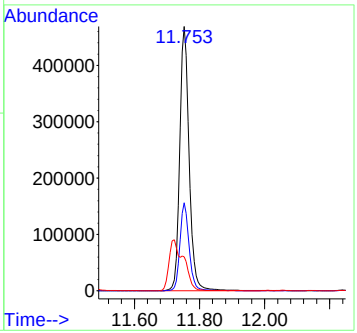


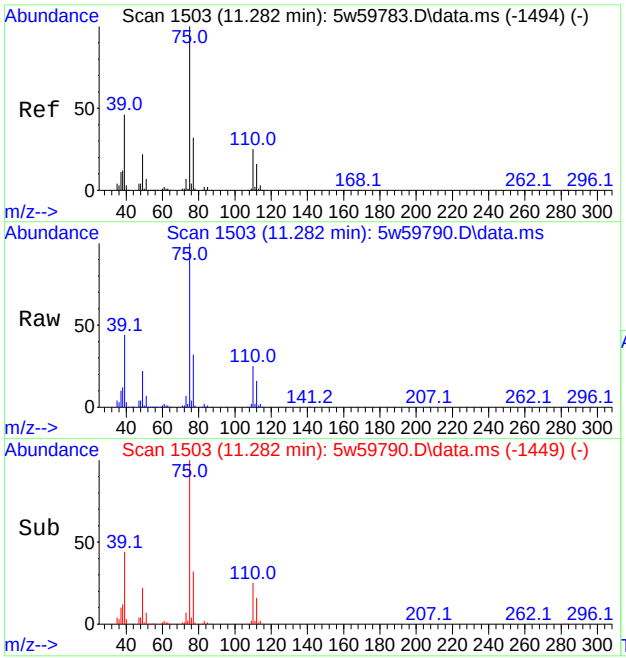


#67
1,3-DICHLOROPROPANE
Concen: 10.77 PPBV
RT: 11.753 min Scan# 1580
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 76 Resp: 950675

Ion	Ratio	Lower	Upper
76	100		
78	32.6	23.2	43.0
63	0.0	7.1	13.1#

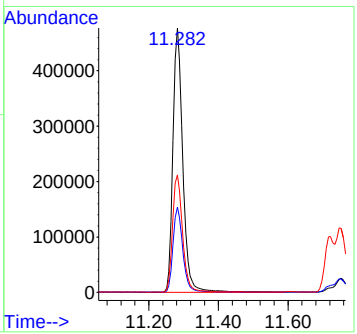


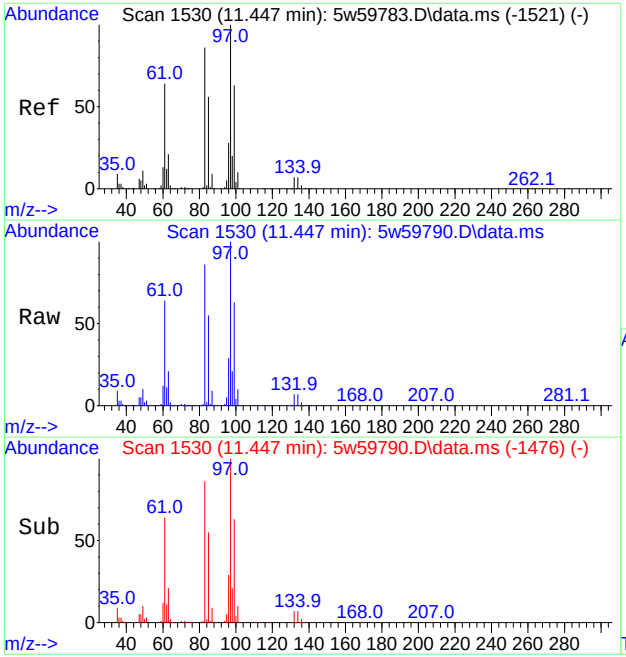


#68
trans-1,3-DICHLOROPROPENE
Concen: 9.66 PPBV
RT: 11.282 min Scan# 1503
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 940495

Ion	Ratio	Lower	Upper
75	100		
77	32.2	1.6	61.6
39	45.6	16.1	76.1

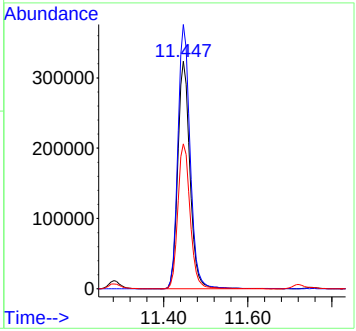


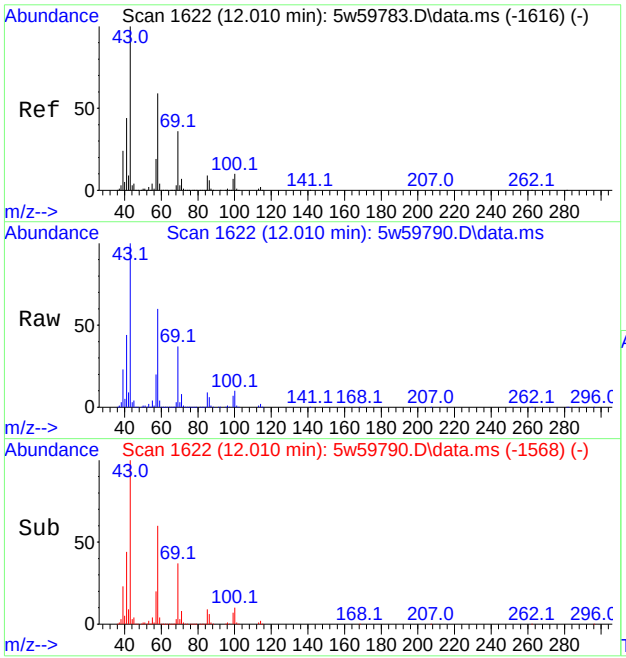


#69
1,1,2-TRICHLOROETHANE
Concen: 10.99 PPBV
RT: 11.447 min Scan# 1530
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 646298

Ion	Ratio	Lower	Upper
83	100		
97	116.7	86.3	146.3
85	64.9	35.3	95.3

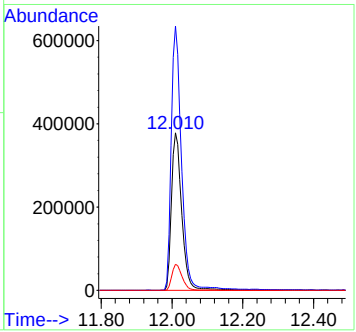


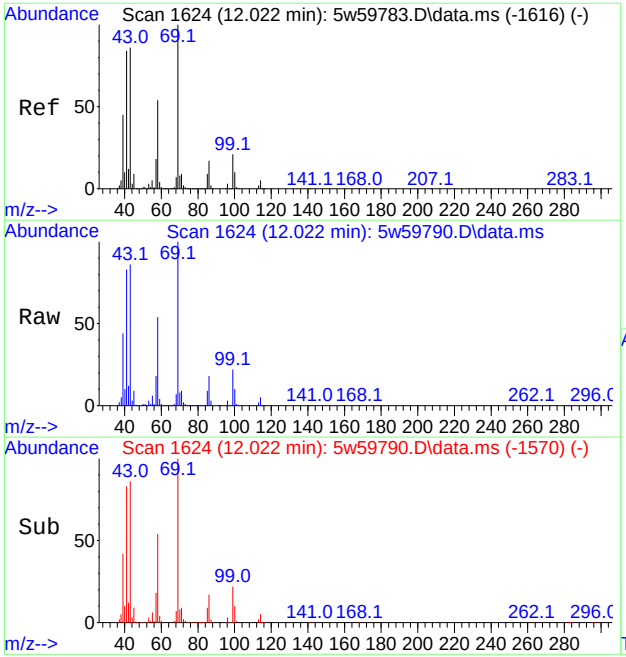


#71
2-HEXANONE
Concen: 12.62 PPBV
RT: 12.010 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 58 Resp: 770539

Ion	Ratio	Lower	Upper
58	100		
43	166.2	137.2	197.2
100	16.7	0.0	46.9

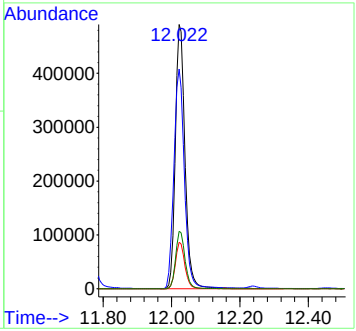


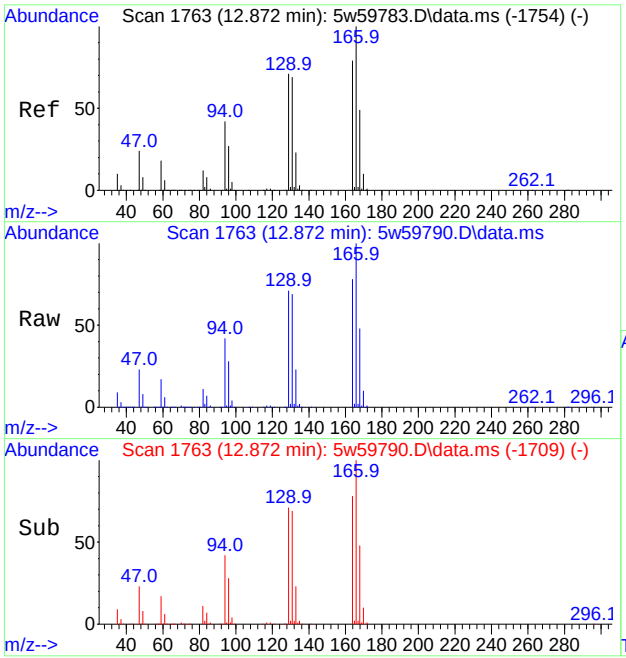


#72
ETHYL METHACRYLATE
Concen: 11.99 PPBV
RT: 12.022 min Scan# 1624
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 69 Resp: 966723

Ion	Ratio	Lower	Upper
69	100		
41	90.6	64.0	119.0
86	17.3	12.0	22.4
99	21.4	15.0	27.8

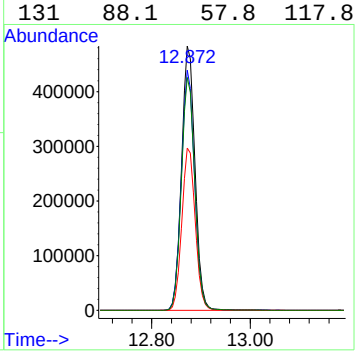


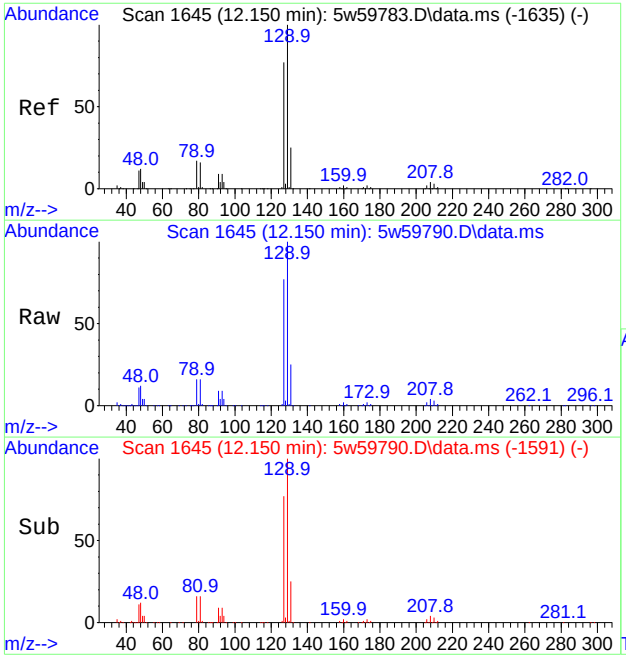


#73
TETRACHLOROETHYLENE
Concen: 11.49 PPBV
RT: 12.872 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:164 Resp: 915172

Ion	Ratio	Lower	Upper
164	100		
129	90.3	59.7	119.7
168	62.0	32.2	92.2
131	88.1	57.8	117.8

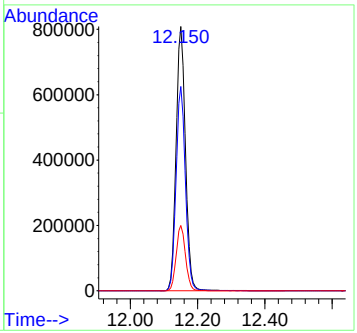


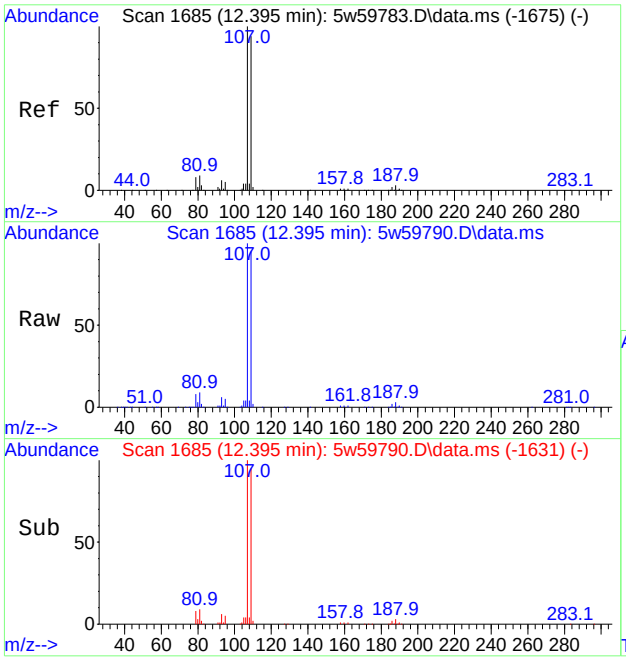


#74
DIBROMOCHLOROMETHANE
Concen: 11.39 PPBV
RT: 12.150 min Scan# 1645
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:129 Resp: 1566467

Ion	Ratio	Lower	Upper
129	100		
127	77.4	47.1	107.1
131	24.7	0.0	54.5

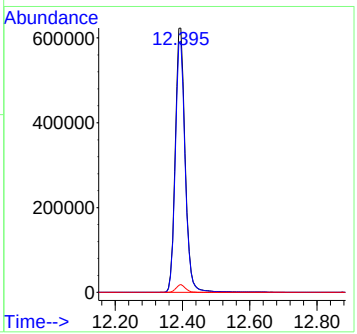


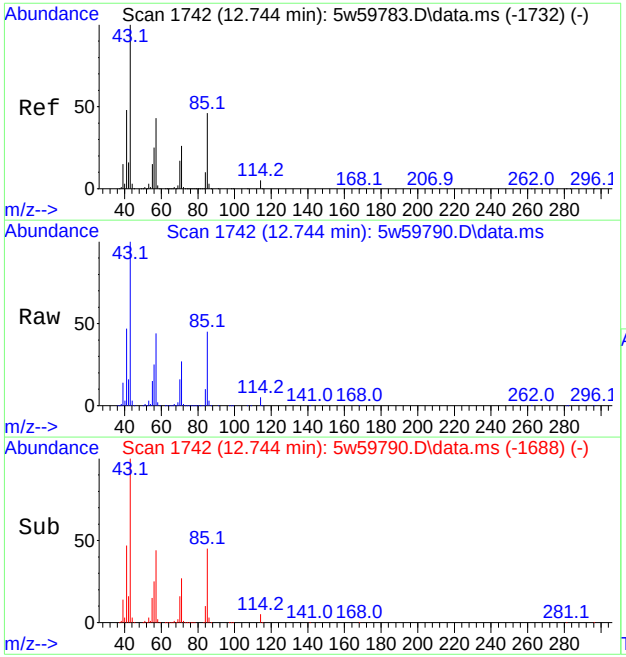


#75
1,2-DIBROMOETHANE
Concen: 11.89 PPBV
RT: 12.395 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:107 Resp: 1272221

Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.8	124.8
188	2.8	0.0	32.8

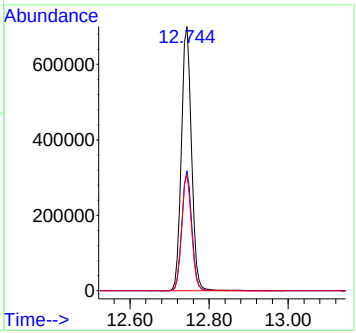


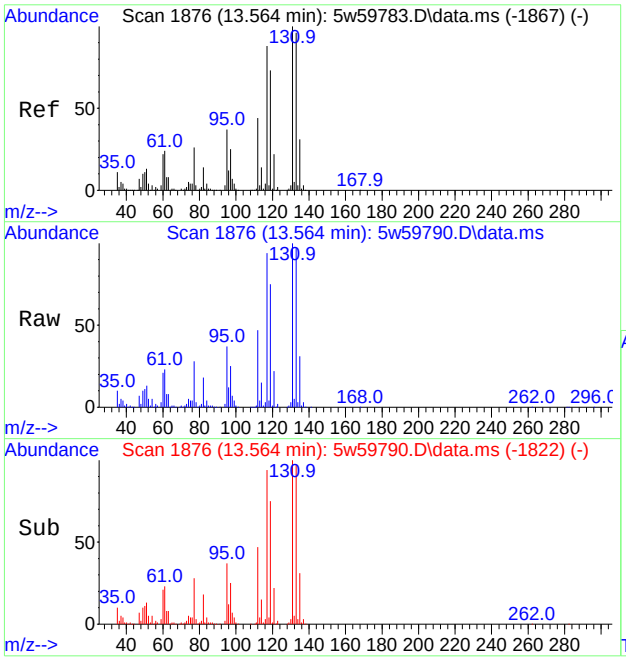


#76
OCTANE
Concen: 11.27 PPBV
RT: 12.744 min Scan# 1742
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1249572

Ion	Ratio	Lower	Upper
43	100		
85	44.7	14.6	74.6
57	43.4	13.7	73.7

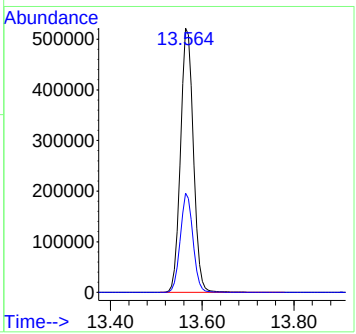


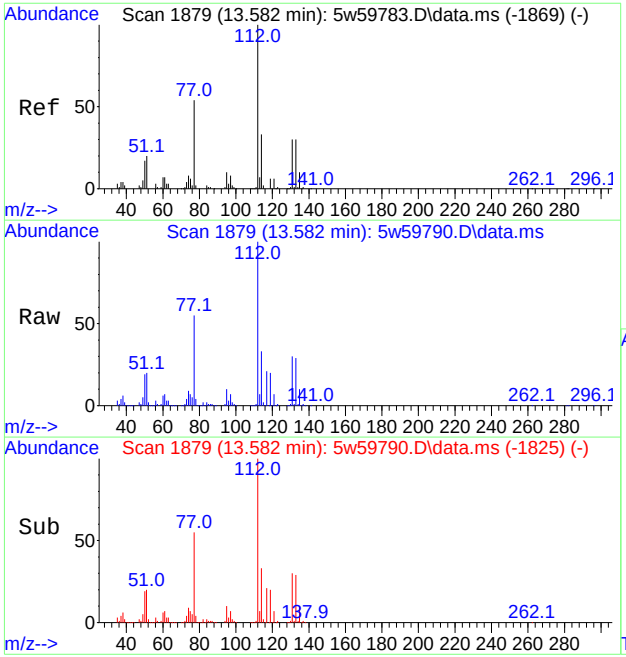


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 11.62 PPBV
RT: 13.564 min Scan# 1876
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:131 Resp: 1017442

Ion	Ratio	Lower	Upper
131	100		
95	36.9	6.5	66.5

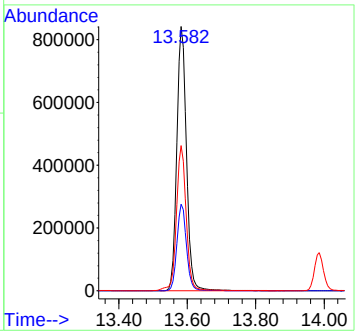


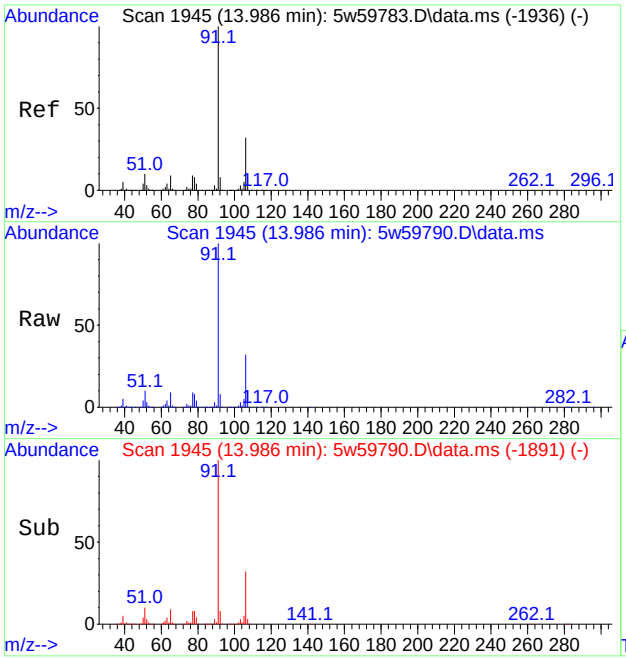


#78
CHLOROBENZENE
Concen: 11.30 PPBV
RT: 13.582 min Scan# 1879
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:112 Resp: 1647850

Ion	Ratio	Lower	Upper
112	100		
114	32.6	2.6	62.6
77	55.5	25.4	85.4

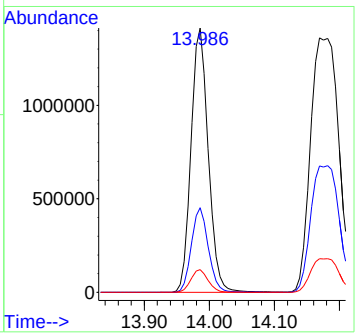


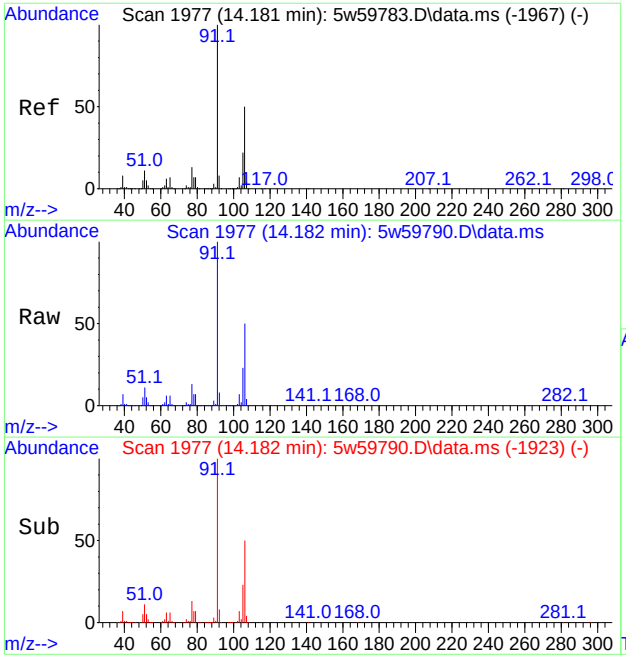


#79
ETHYLBENZENE
Concen: 11.61 PPBV
RT: 13.986 min Scan# 1945
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2597260

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.3	61.3
77	8.6	0.0	38.6

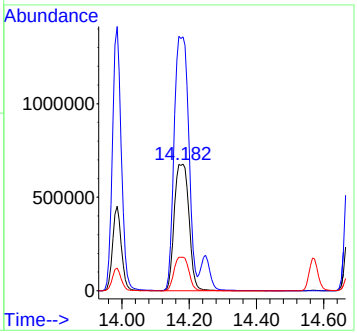


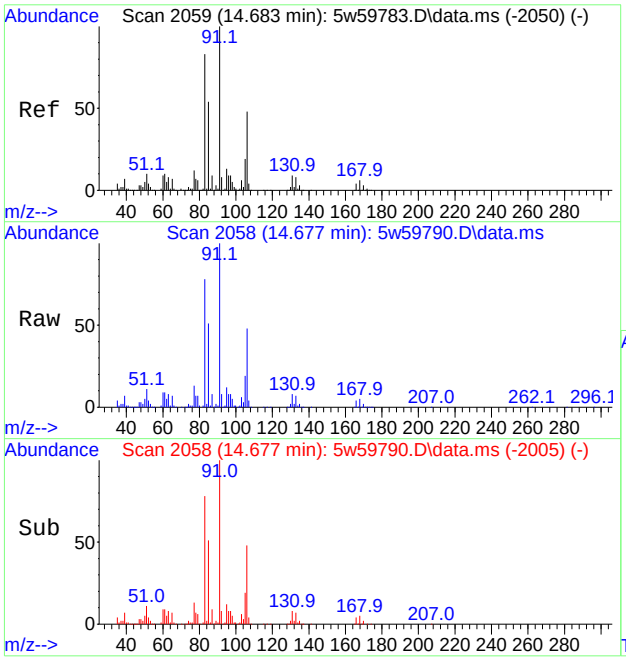


#80
m,p-XYLENE
Concen: 23.24 PPBV
RT: 14.182 min Scan# 1977
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 2050019

Ion	Ratio	Lower	Upper
106	100		
91	200.2	171.0	231.0
77	26.6	0.0	56.7

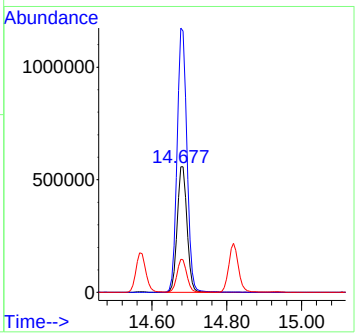


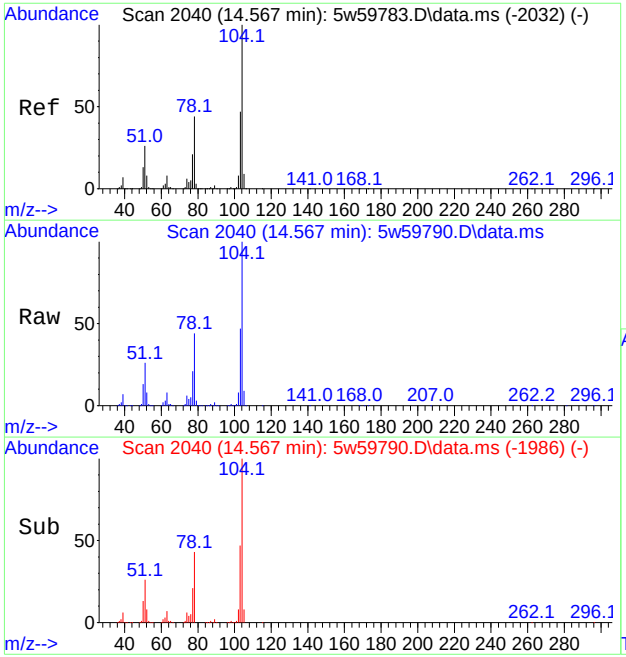


#81
o-XYLENE
Concen: 12.30 PPBV
RT: 14.677 min Scan# 2058
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:106 Resp: 1016013

Ion	Ratio	Lower	Upper
106	100		
91	209.6	181.6	241.6
77	26.2	0.0	56.6

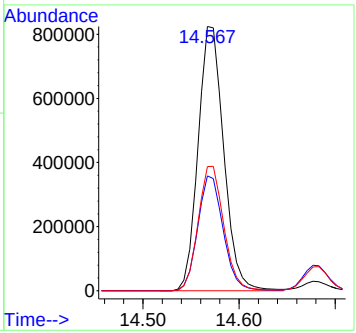


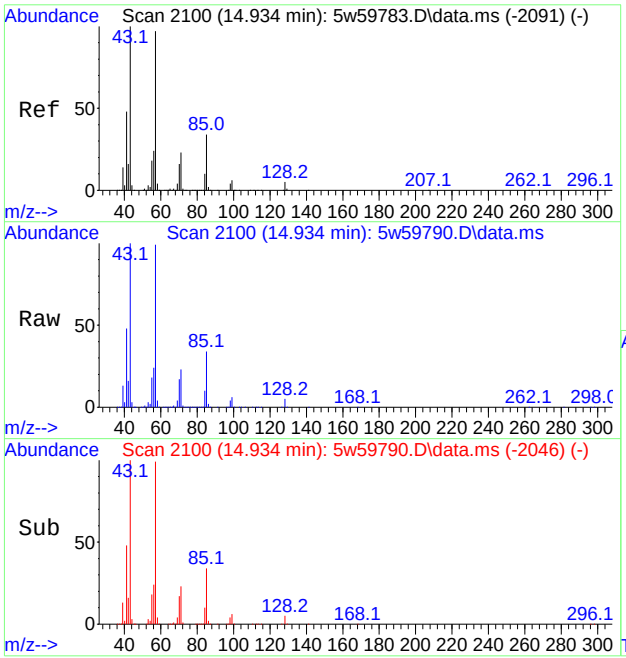


#82
STYRENE
Concen: 11.88 PPBV
RT: 14.567 min Scan# 2040
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:104 Resp: 1531560

Ion	Ratio	Lower	Upper
104	100		
78	43.0	13.3	73.3
103	47.1	17.2	77.2

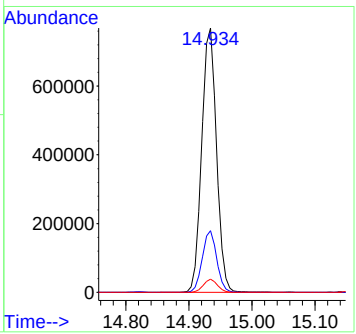


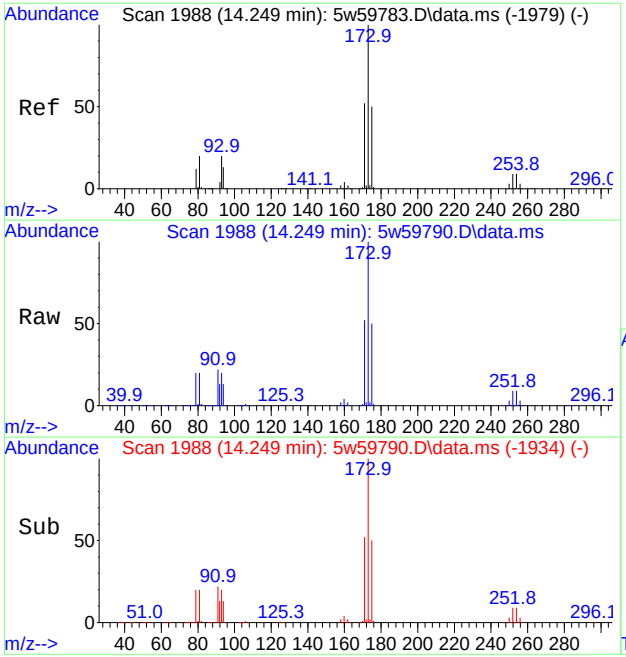


#83
NONANE
Concen: 11.11 PPBV
RT: 14.934 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 43 Resp: 1246325

Ion	Ratio	Lower	Upper
43	100		
71	22.9	0.0	52.7
128	4.8	0.0	34.7

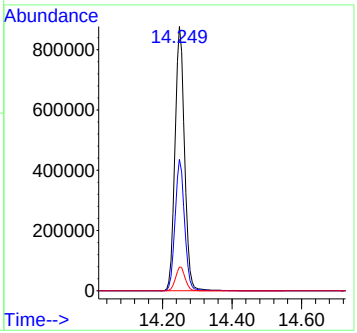


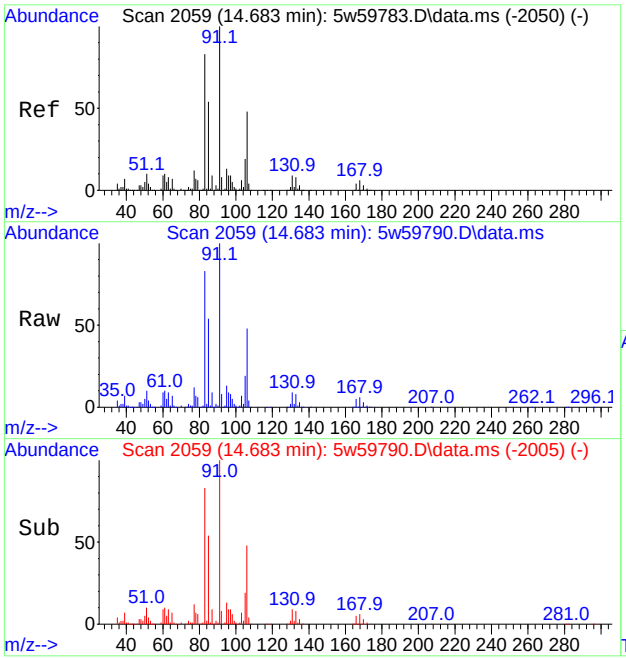


#84
BROMOFORM
Concen: 12.32 PPBV
RT: 14.249 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:173 Resp: 1671641

Ion	Ratio	Lower	Upper
173	100		
175	49.5	19.6	79.6
254	9.0	0.0	39.0

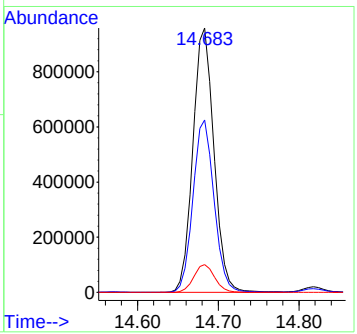


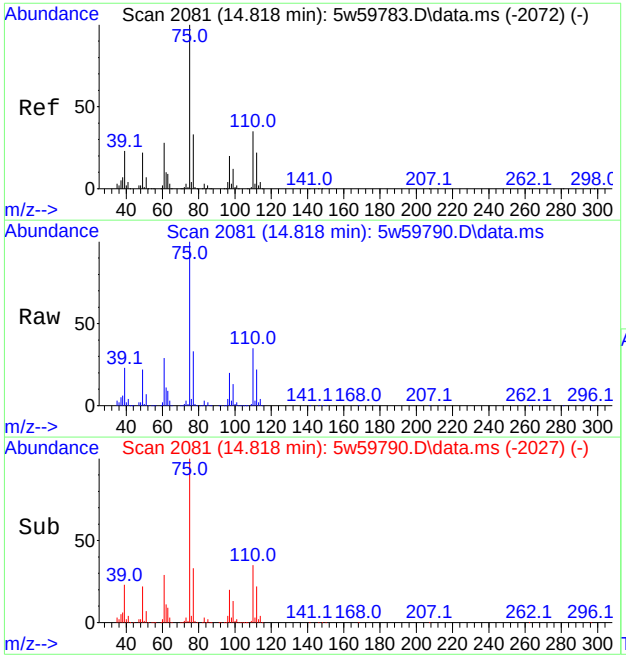


#86
1,1,2,2-TETRACHLOROETHANE
Concen: 12.14 PPBV
RT: 14.683 min Scan# 2059
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 83 Resp: 1743965

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.2	95.2
131	10.5	0.0	40.3

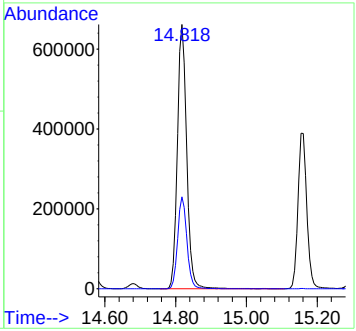


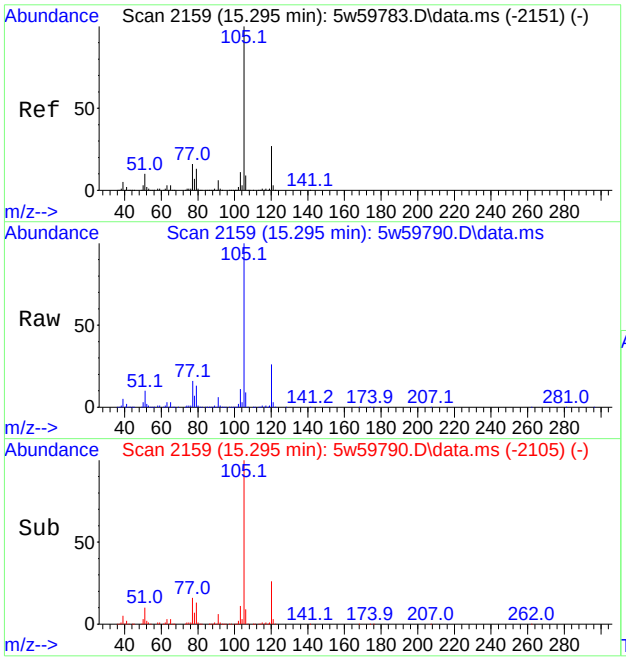


#87
1,2,3-TRICHLOROPROPANE
Concen: 10.42 PPBV
RT: 14.818 min Scan# 2081
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 75 Resp: 1202955

Ion	Ratio	Lower	Upper
75	100		
110	34.7	4.4	64.4

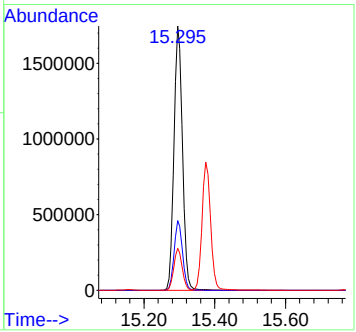


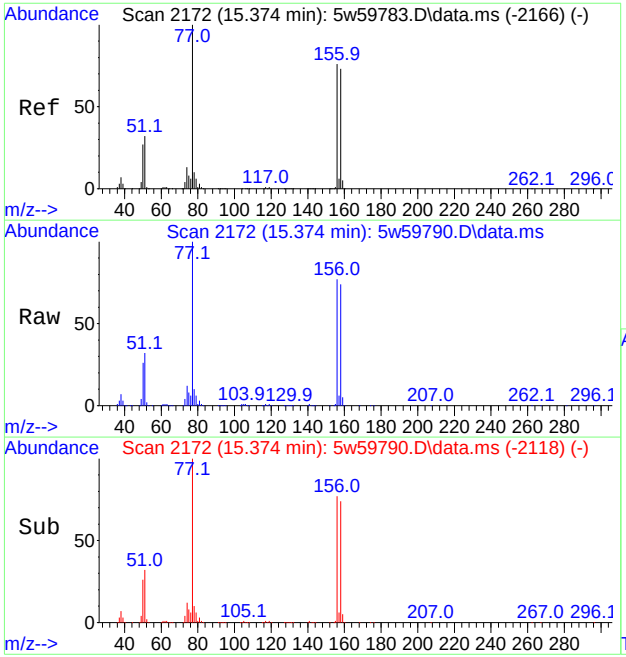


#88
ISOPROPYLBENZENE
Concen: 11.51 PPBV
RT: 15.295 min Scan# 2159
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2910298

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	56.0
77	15.6	0.0	45.6

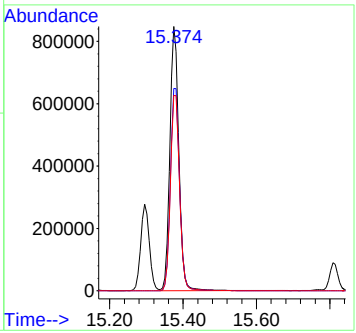


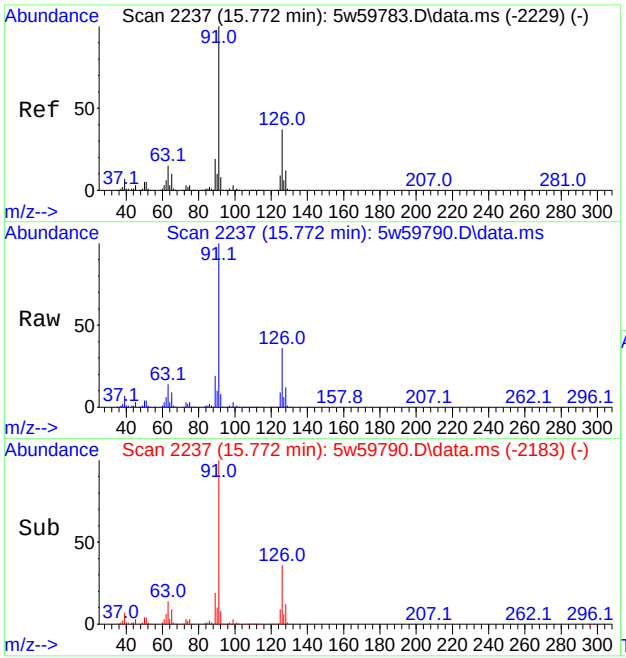


#89
BROMOBENZENE
Concen: 10.87 PPBV
RT: 15.374 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 77 Resp: 1429493

Ion	Ratio	Lower	Upper
77	100		
156	78.9	54.9	101.9
158	76.6	53.5	99.3

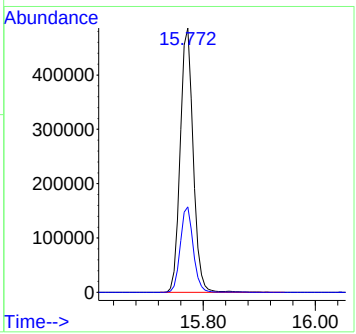


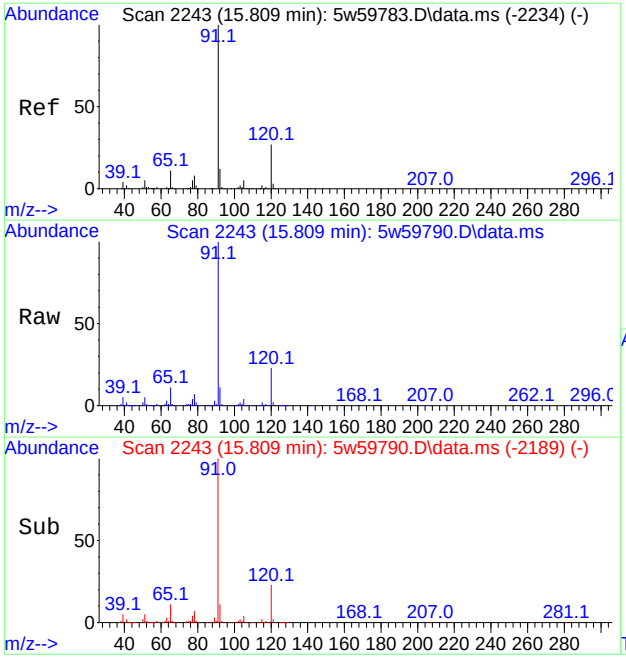


#90
2-CHLOROTOLUENE
Concen: 11.13 PPBV
RT: 15.772 min Scan# 2237
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:126 Resp: 779180

Ion	Ratio	Lower	Upper
126	100		
128	32.5	2.7	62.7

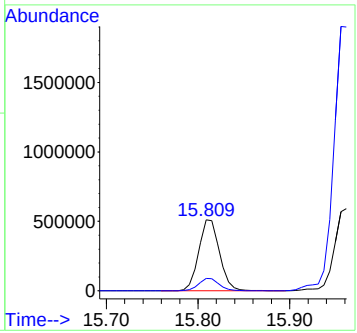


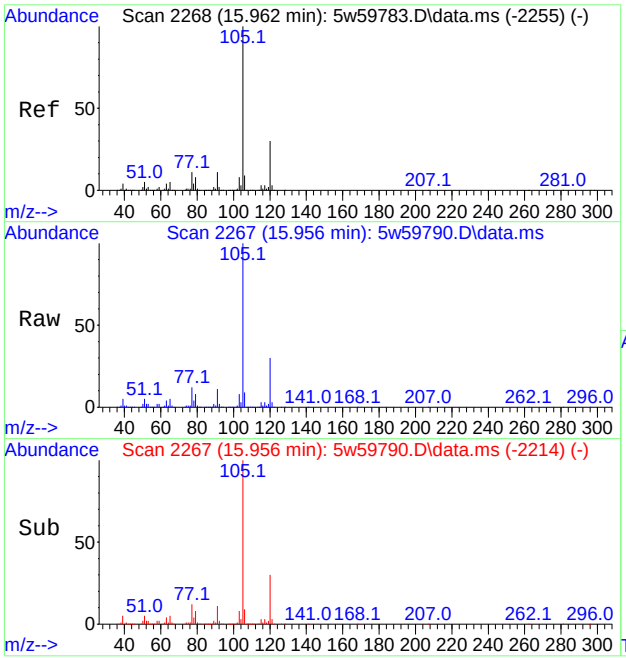


#91
n-PROPYLBENZENE
Concen: 11.92 PPBV
RT: 15.809 min Scan# 2243
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:120 Resp: 807953

Ion	Ratio	Lower	Upper
120	100		
105	16.8	0.0	47.0

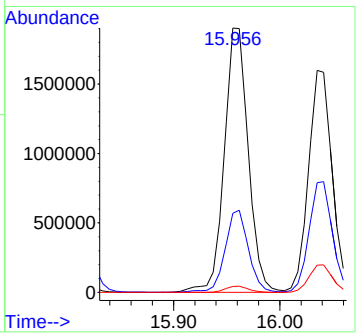


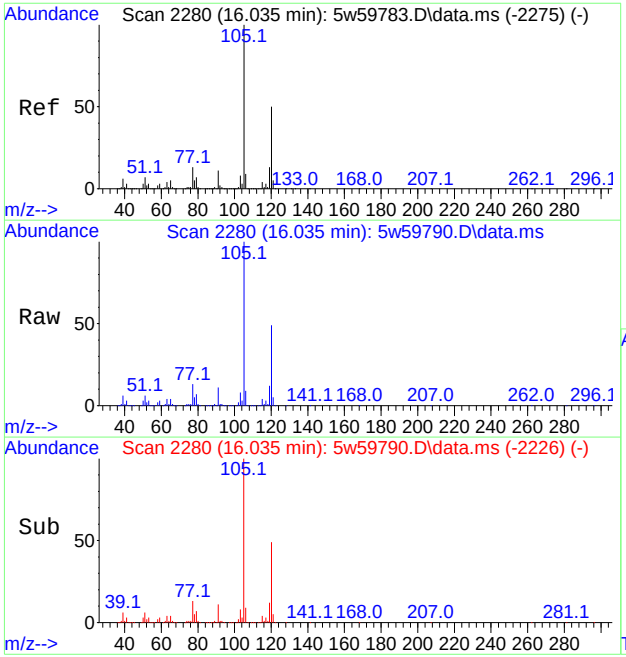


#92
4-ETHYLTOLUENE
Concen: 12.93 PPBV
RT: 15.956 min Scan# 2267
Delta R.T. -0.006 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2990249

Ion	Ratio	Lower	Upper
105	100		
120	30.3	0.0	59.9
119	2.3	0.0	32.3

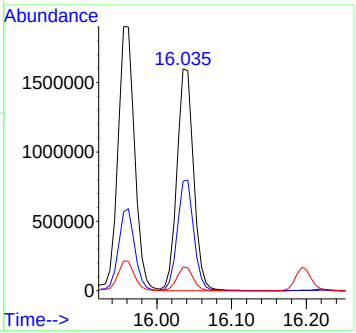


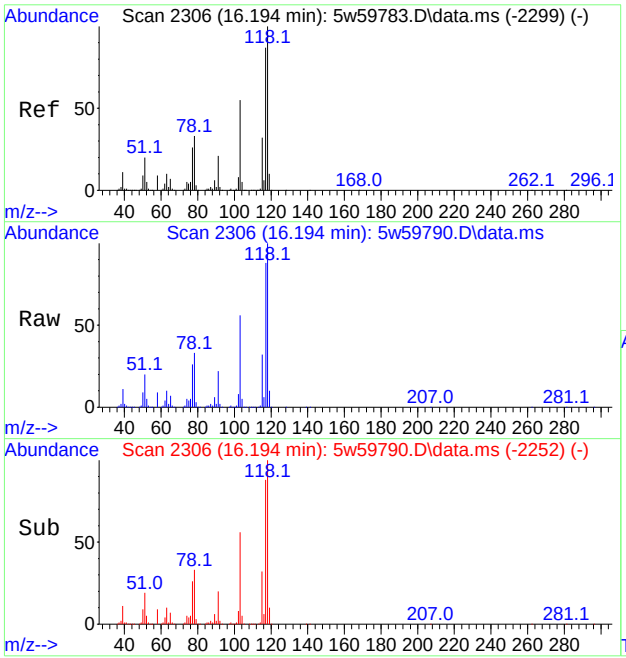


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.54 PPBV
RT: 16.035 min Scan# 2280
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2480601

Ion	Ratio	Lower	Upper
105	100		
120	49.3	19.4	79.4
91	10.7	0.0	40.8

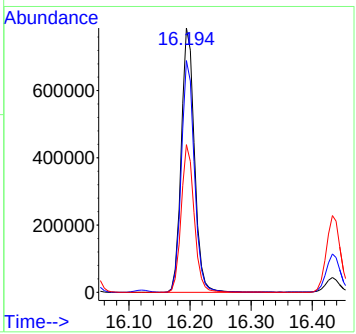


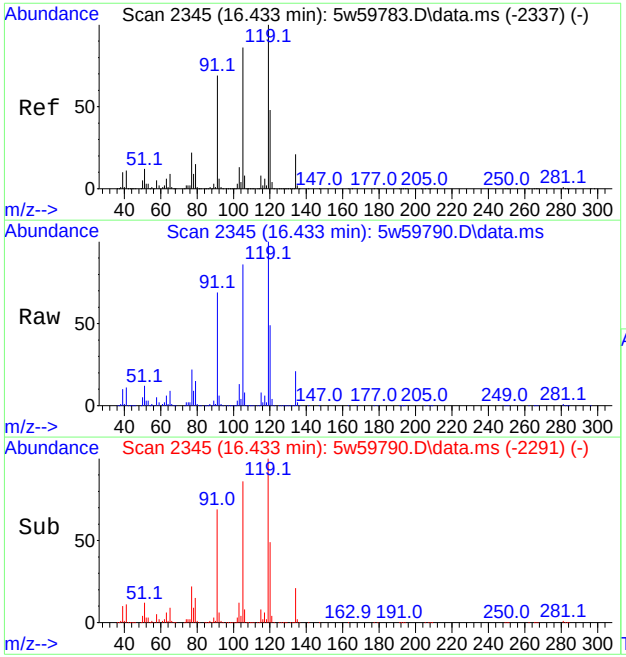


#94
ALPHA-METHYLSTYRENE
Concen: 11.12 PPBV
RT: 16.194 min Scan# 2306
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:118 Resp: 1177774

Ion	Ratio	Lower	Upper
118	100		
117	87.3	60.9	113.1
103	55.4	38.6	71.8

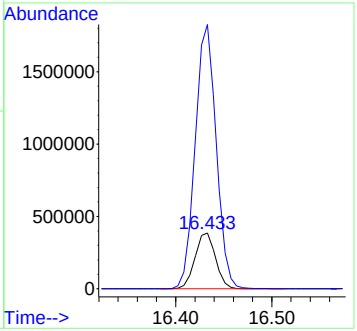


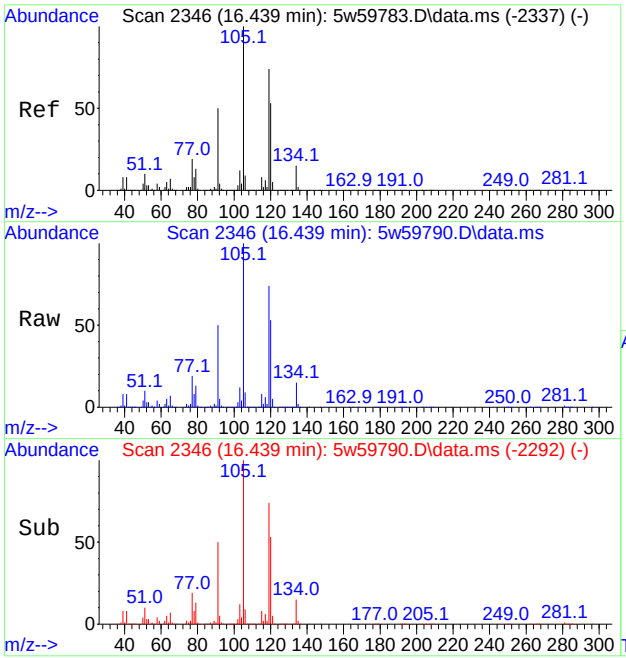


#95
tert-BUTYLBENZENE
Concen: 13.08 PPBV
RT: 16.433 min Scan# 2345
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 570968

Ion	Ratio	Lower	Upper
134	100		
119	485.6	459.3	519.3

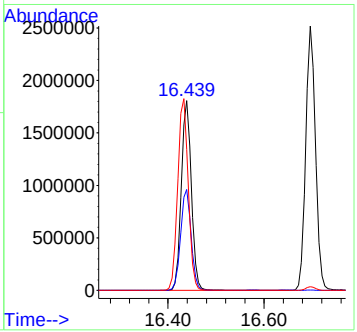


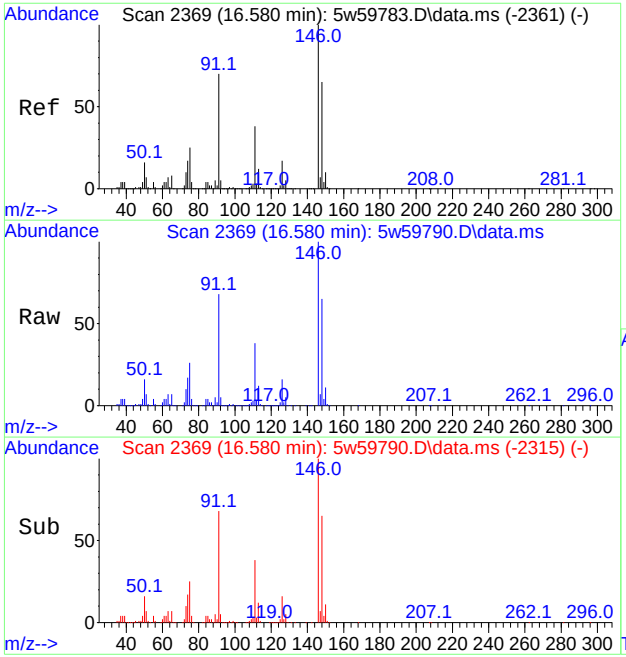


#96
1,2,4-TRIMETHYLBENZENE
Concen: 13.02 PPBV
RT: 16.439 min Scan# 2346
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2612198

Ion	Ratio	Lower	Upper
105	100		
120	55.9	25.7	85.7
119	106.1	75.7	135.7

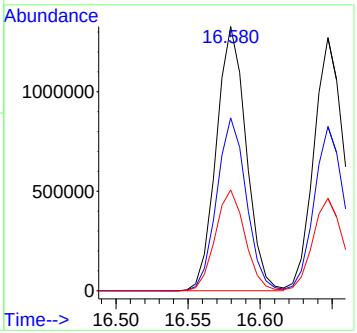


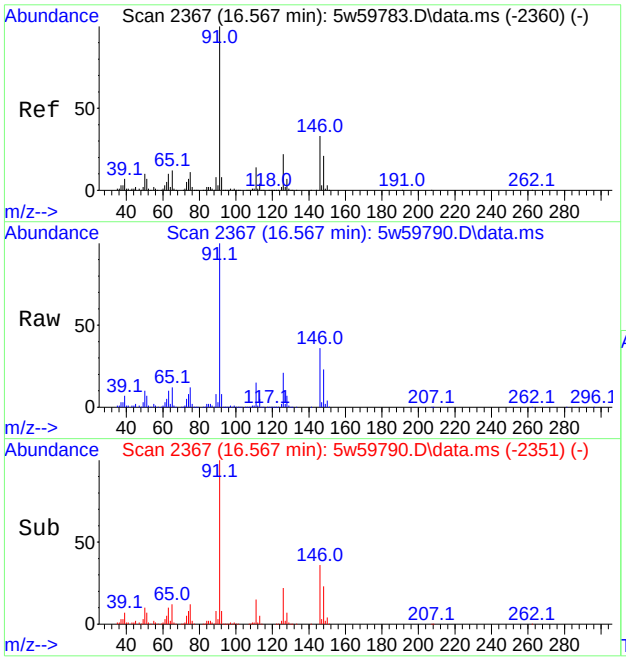


#97
m-DICHLOROBENZENE
Concen: 12.50 PPBV
RT: 16.580 min Scan# 2369
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1916772

Ion	Ratio	Lower	Upper
146	100		
148	64.9	34.8	94.8
111	38.1	8.2	68.2

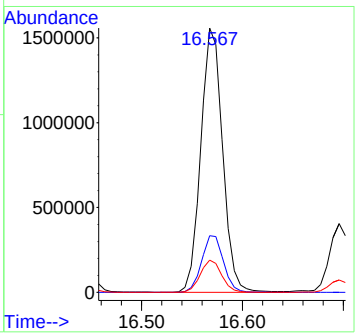


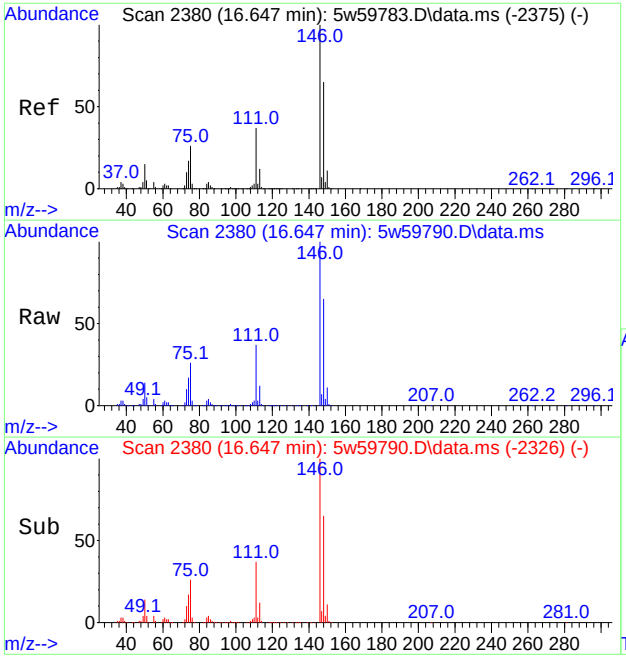


#98
BENZYL CHLORIDE
Concen: 12.63 PPBV
RT: 16.567 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion: 91 Resp: 2335931

Ion	Ratio	Lower	Upper
91	100		
126	21.7	0.0	51.7
65	12.1	0.0	42.2

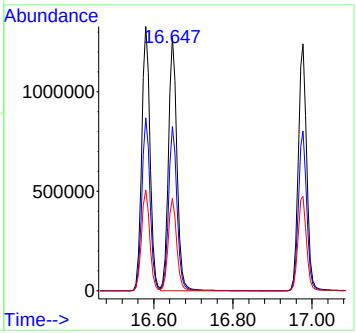


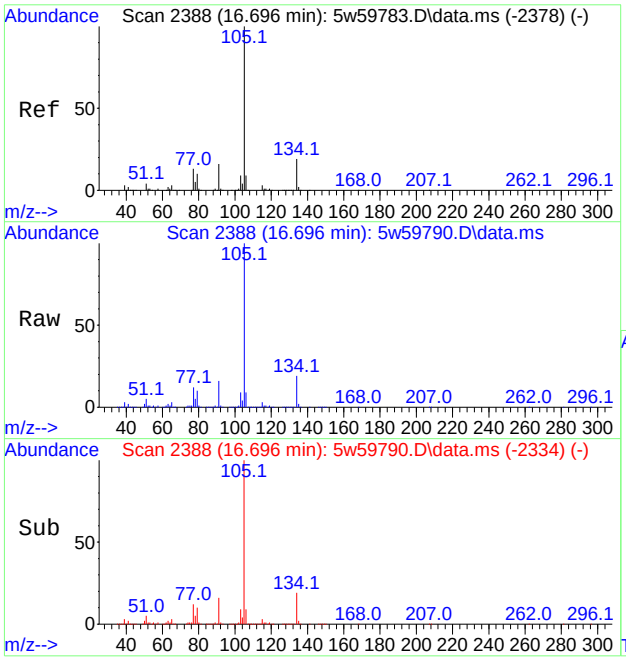


#99
p-DICHLOROBENZENE
Concen: 11.46 PPBV
RT: 16.647 min Scan# 2380
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1889997

Ion	Ratio	Lower	Upper
146	100		
148	64.7	34.6	94.6
111	36.6	6.7	66.7

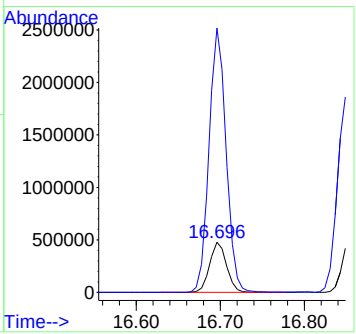


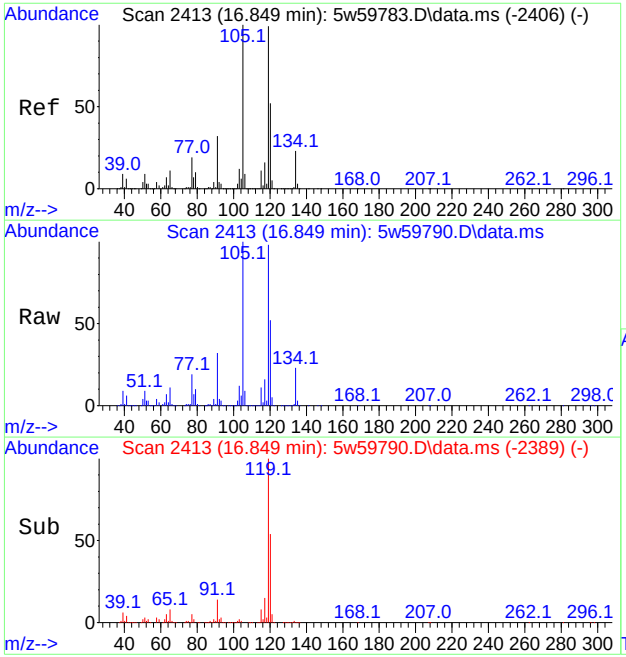


#100
sec-BUTYLBENZENE
Concen: 12.13 PPBV
RT: 16.696 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 670798

Ion	Ratio	Lower	Upper
134	100		
105	530.0	502.5	562.5

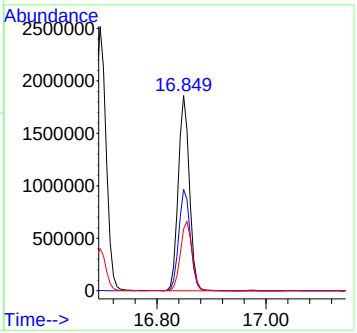


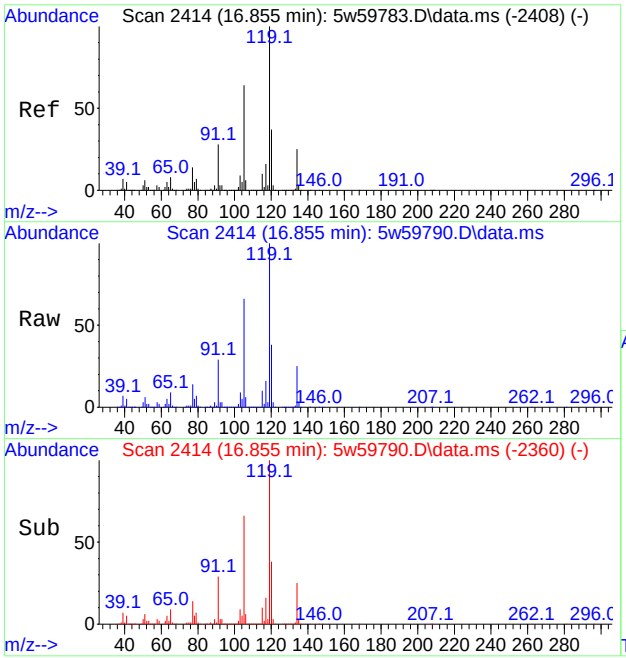


#101
1,2,3-TRIMETHYLBENZENE
Concen: 12.36 PPBV
RT: 16.849 min Scan# 2413
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:105 Resp: 2623929

Ion	Ratio	Lower	Upper
105	100		
120	53.6	23.5	83.5
91	37.1	7.4	67.4

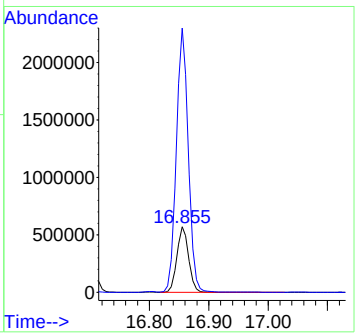


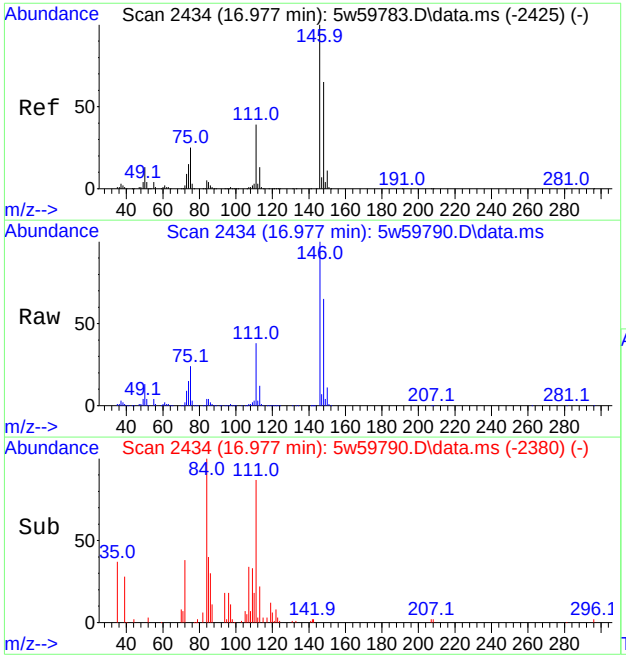


#102
p-ISOPROPYLTOLUENE
Concen: 12.67 PPBV
RT: 16.855 min Scan# 2414
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 794033

Ion	Ratio	Lower	Upper
134	100		
119	408.5	377.7	437.7

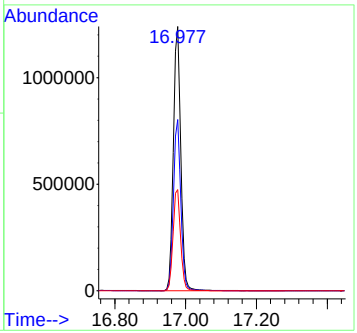


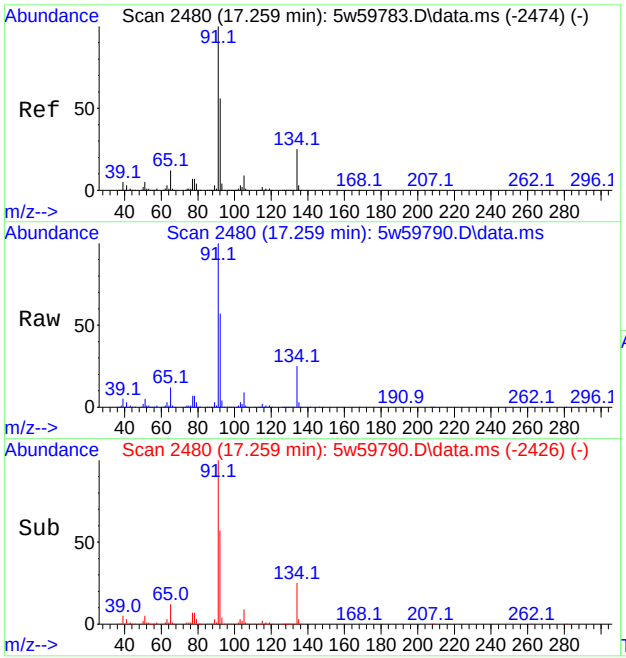


#103
o-DICHLOROBENZENE
Concen: 11.75 PPBV
RT: 16.977 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:146 Resp: 1807576

Ion	Ratio	Lower	Upper
146	100		
148	64.5	34.3	94.3
111	38.9	9.2	69.2

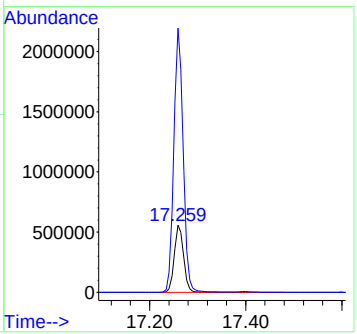


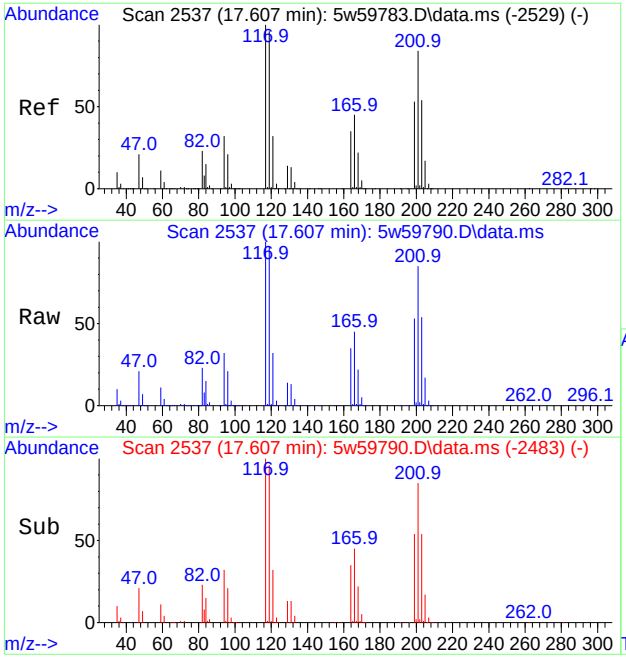


#104
n-BUTYLBENZENE
Concen: 12.27 PPBV
RT: 17.259 min Scan# 2480
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:134 Resp: 753590

Ion	Ratio	Lower	Upper
134	100		
91	392.6	363.1	423.1

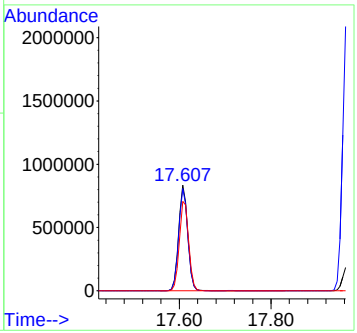


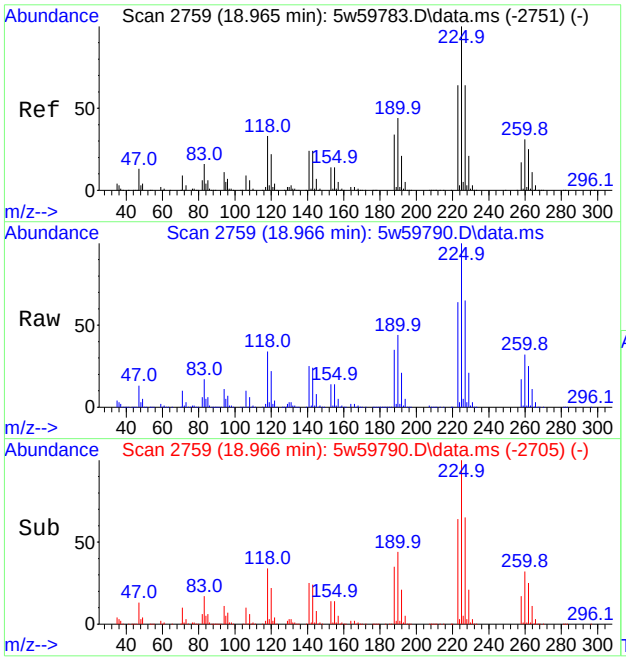


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.607 min Scan# 2537
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:117 Resp: 1153176

Ion	Ratio	Lower	Upper
117	100		
119	96.2	67.2	124.8
201	86.7	61.1	113.5

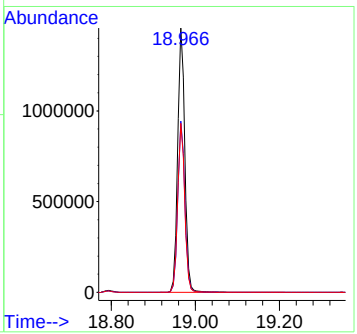


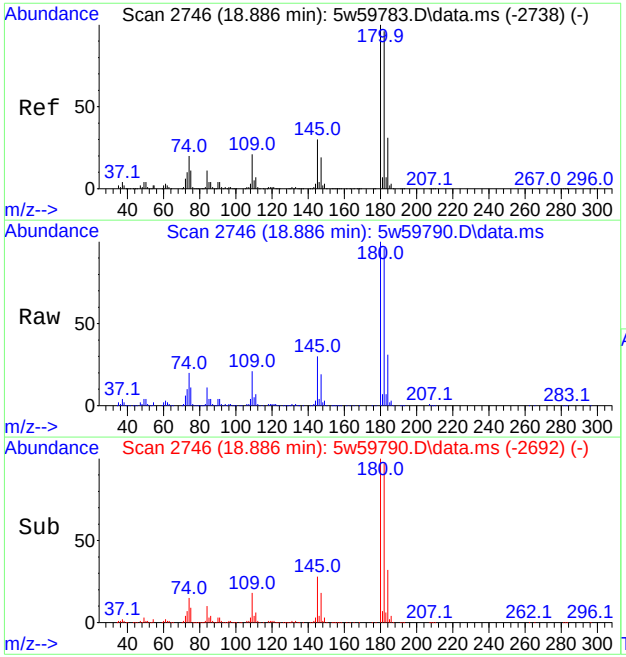


#106
HEXACHLOROBUTADIENE
Concen: 12.11 PPBV
RT: 18.966 min Scan# 2759
Delta R.T. 0.001 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:225 Resp: 1732361

Ion	Ratio	Lower	Upper
225	100		
227	64.2	34.2	94.2
223	63.4	33.3	93.3

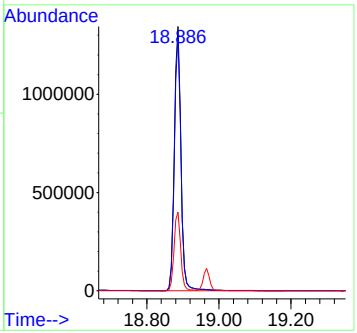


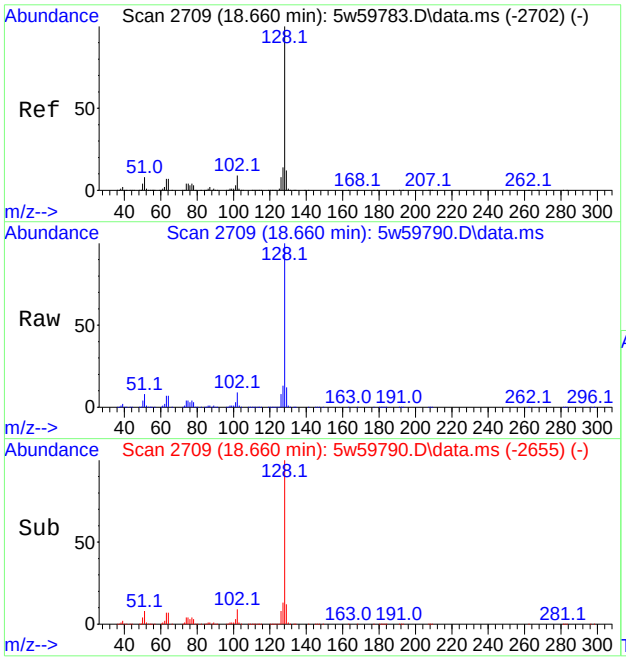


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.05 PPBV
RT: 18.886 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:180 Resp: 1717833

Ion	Ratio	Lower	Upper
180	100		
182	95.9	65.4	125.4
145	29.7	0.0	59.4

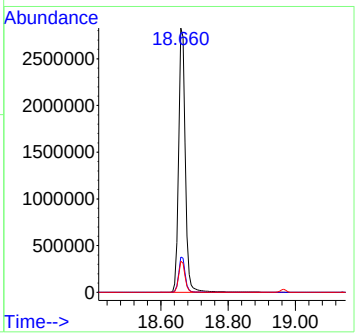


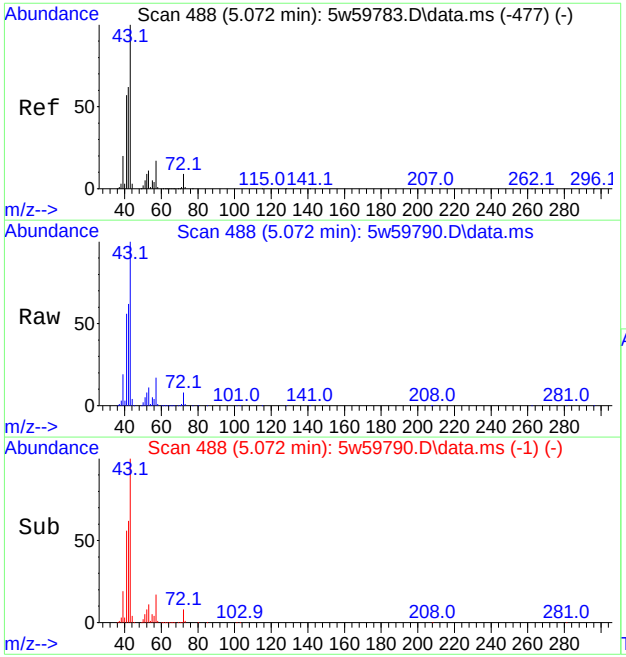


#108
NAPHTHALENE
Concen: 12.54 PPBV
RT: 18.660 min Scan# 2709
Delta R.T. -0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:128 Resp: 3898122

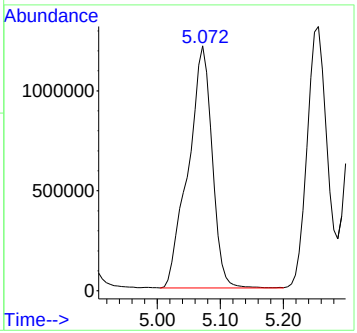
Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	43.3
129	11.5	0.0	41.4





#110
TVHC as equiv Pentane
Concen: 10.55 PPBV
RT: 5.072 min Scan# 488
Delta R.T. 0.000 min
Lab File: 5w59790.D
Acq: 7 Nov 2025 12:25 pm

Tgt Ion:TIC Resp: 3177953



7.7.11

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	7.354	128	470220	10.00	PPBV		0.00
51) 1,4-DIFLUOROBENZENE	9.214	114	2049823	10.00	PPBV		0.00
70) CHLOROBENZENE-D5	13.533	82	1097928	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	7.354	128	470220	10.00	PPBV		0.00
System Monitoring Compounds							
85) 4-BROMOFLUOROBENZENE	15.154	95	1392885	10.15	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.50%				
Target Compounds							Qvalue
2) FREON 115	3.371	119	326866	10.1459	PPBV		99
3) FREON 152A	3.445	65	308096	8.8346	PPBV		97
4) CHLORODIFLUOROMETHANE	3.475	67	159233	10.9155	PPBV		98
5) CHLOROTRIFLUOROETHENE	3.506	116	818335	11.2032	PPBV		99
6) DICHLORODIFLUOROMETHANE	3.549	85	1510102	11.2218	PPBV		98
7) PROPYLENE	3.500	41	319179	8.8431	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	3.647	65	1145136	10.5076	PPBV		97
9) FREON 114	3.732	85	1491348	12.1231	PPBV		98
10) CHLOROMETHANE	3.665	52	137482	9.3028	PPBV		99
11) VINYL CHLORIDE	3.818	62	481278	10.5650	PPBV		99
12) 1,3-BUTADIENE	3.910	54	283401	10.3340	PPBV		98
13) n-BUTANE	3.946	43	441343	9.8480	PPBV		98
14) BROMOMETHANE	4.106	94	546023	11.2707	PPBV		100
15) CHLOROETHANE	4.228	64	210971	9.4930	PPBV		98
16) DICHLOROFLUOROMETHANE	4.289	67	1072755	11.0813	PPBV		99
17) ACETONITRILE	4.479	41	247921	9.6837	PPBV		100
18) ACROLEIN	4.570	56	151722	10.4286	PPBV		96
19) FREON 123	4.589	83	1267783	11.3202	PPBV	#	71
20) FREON 123A	4.632	117	778337	12.1007	PPBV		96
21) TRICHLOROFLUOROMETHANE	4.791	101	1341181	11.6680	PPBV		100
22) ISOPROPYL ALCOHOL	4.870	45	834842	9.0540	PPBV		97
23) ACETONE	4.674	58	187128	10.1467	PPBV		90
24) PENTANE	5.072	42	413834	8.6386	PPBV		99
25) IODOMETHANE	5.256	142	1685190	11.7624	PPBV		99
26) 1,1-DICHLOROETHYLENE	5.317	96	518986	10.2907	PPBV		92
27) CARBON DISULFIDE	5.672	76	1376641	10.4175	PPBV		98
28) ETHANOL	4.320	45	171992	11.1335	PPBV		99
29) BROMOETHENE	4.479	106	567142	11.8700	PPBV		100
30) ACRYLONITRILE	5.042	52	297460	9.5306	PPBV		99
31) METHYLENE CHLORIDE	5.421	84	451379	9.5667	PPBV		91
32) 3-CHLOROPROPENE	5.519	76	215893	9.5054	PPBV		87
33) FREON 113	5.641	151	951655	11.3406	PPBV		97
34) TRANS-1,2-DICHLOROETHY...	6.241	96	526395	9.9548	PPBV		93
35) TERTIARY BUTYL ALCOHOL	5.378	59	919943	9.7568	PPBV		99
36) METHYL TERTIARY BUTYL ...	6.473	73	1337117	10.0464	PPBV		97
37) TETRAHYDROFURAN	7.856	72	200962	11.0075	PPBV		91
38) HEXANE	7.379	57	724495	9.6508	PPBV		98
39) VINYL ACETATE	6.565	86	82739	10.8977	PPBV	#	70
40) 1,1-DICHLOROETHANE	6.424	63	921820	9.5004	PPBV		99
41) METHYL ETHYL KETONE	6.797	72	211335	11.6357	PPBV	#	85
42) cis-1,2-DICHLOROETHYLENE	7.195	96	554718	9.6249	PPBV		95
43) DIISOPROPYL ETHER	7.385	59	226741	11.4869	PPBV		95
44) ETHYL ACETATE	7.415	61	165646	11.9353	PPBV	#	1
45) METHYL ACRYLATE	7.403	55	907802	12.2101	PPBV		98
46) CHLOROFORM	7.476	83	1168778	11.1790	PPBV		98
47) 2,4-DIMETHYLPENTANE	8.223	57	832763	9.8014	PPBV		98
48) 1,1,1-TRICHLOROETHANE	8.406	97	1211580	11.1104	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CARBON TETRACHLORIDE	8.994	117	1349067	11.3900	PPBV		100
50)	1,2-DICHLOROETHANE	8.174	62	775572	10.6757	PPBV		99
52)	BENZENE	8.853	78	1495903	10.8929	PPBV		98
53)	CYCLOHEXANE	9.104	84	581961	10.6075	PPBV		93
54)	2,3-DIMETHYLPENTANE	9.348	71	291255	10.5057	PPBV		94
55)	TRICHLOROETHYLENE	9.887	95	792757	11.3323	PPBV		99
56)	1,2-DICHLOROPROPANE	9.648	63	576732	9.0459	PPBV		99
57)	DIBROMOMETHANE	9.630	174	860591	11.0058	PPBV		97
58)	ETHYL ACRYLATE	9.679	55	1100529	11.0454	PPBV		99
59)	BROMODICHLOROMETHANE	9.850	83	1346052	11.0969	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	9.911	57	2287516	10.5261	PPBV		99
61)	1,4-DIOXANE	9.899	88	347837	11.1041	PPBV		92
62)	HEPTANE	10.180	43	728662	9.2215	PPBV		96
63)	METHYL METHACRYLATE	10.107	69	501935	11.2148	PPBV		92
64)	METHYL ISOBUTYL KETONE	10.786	58	463649	11.4439	PPBV		95
65)	cis-1,3-DICHLOROPROPENE	10.749	75	999428	10.2319	PPBV		95
66)	TOLUENE	11.716	92	1111812	10.8312	PPBV		99
67)	1,3-DICHLOROPROPANE	11.753	76	888447	10.6183	PPBV	#	93
68)	trans-1,3-DICHLOROPROPENE	11.282	75	902397	9.7868	PPBV		95
69)	1,1,2-TRICHLOROETHANE	11.447	83	624758	11.2090	PPBV		100
71)	2-HEXANONE	12.010	58	674815	11.7504	PPBV		97
72)	ETHYL METHACRYLATE	12.022	69	901895	11.8904	PPBV		95
73)	TETRACHLOROETHYLENE	12.872	164	962806	12.8556	PPBV		99
74)	DIBROMOCHLOROMETHANE	12.150	129	1573733	12.1695	PPBV		100
75)	1,2-DIBROMOETHANE	12.389	107	1269369	12.6163	PPBV		100
76)	OCTANE	12.738	43	1053564	10.1020	PPBV		96
77)	1,1,1,2-TETRACHLOROETHANE	13.564	131	1003830	12.1912	PPBV		99
78)	CHLOROBENZENE	13.582	112	1619008	11.8010	PPBV		100
79)	ETHYLBENZENE	13.980	91	2508035	11.9174	PPBV		100
80)	m,p-XYLENE	14.181	106	1924720	23.2075	PPBV		99
81)	o-XYLENE	14.677	106	949484	12.2264	PPBV		100
82)	STYRENE	14.567	104	1494724	12.3322	PPBV		99
83)	NONANE	14.928	43	1096357	10.3927	PPBV		97
84)	BROMOFORM	14.249	173	1685100	13.2101	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	14.677	83	1656478	12.2657	PPBV		100
87)	1,2,3-TRICHLOROPROPANE	14.812	75	1130272	10.4090	PPBV		97
88)	ISOPROPYLBENZENE	15.295	105	2741340	11.5284	PPBV		100
89)	BROMOBENZENE	15.374	77	1335269	10.7933	PPBV		96
90)	2-CHLOROTOLUENE	15.766	126	750782	11.4000	PPBV		100
91)	n-PROPYLBENZENE	15.809	120	767167	12.0340	PPBV		100
92)	4-ETHYLTOLUENE	15.956	105	2799486	12.8708	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.035	105	2378299	11.7612	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.194	118	1185359	11.8976	PPBV		99
95)	tert-BUTYLBENZENE	16.427	134	543620	13.2410	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.439	105	2520167	13.3550	PPBV		100
97)	m-DICHLOROBENZENE	16.580	146	1855781	12.8649	PPBV		99
98)	BENZYL CHLORIDE	16.567	91	2204108	12.6776	PPBV		100
99)	p-DICHLOROBENZENE	16.647	146	1844102	11.8897	PPBV		100
100)	sec-BUTYLBENZENE	16.696	134	617709	11.8779	PPBV		100
101)	1,2,3-TRIMETHYLBENZENE	16.849	105	2525370	12.6546	PPBV		100
102)	p-ISOPROPYLTOLUENE	16.855	134	778885	13.2130	PPBV		99
103)	o-DICHLOROBENZENE	16.971	146	1713925	11.8444	PPBV		100
104)	n-BUTYLBENZENE	17.259	134	715520	12.3936	PPBV		100
105)	HEXACHLOROETHANE	17.607	117	1003668	10.0858	PPBV		99
106)	HEXACHLOROBUTADIENE	18.965	225	1793051	13.3307	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.880	180	1773089	13.2234	PPBV		100
108)	NAPHTHALENE	18.660	128	3918365	13.4079	PPBV		100
110)	TVHC as equiv Pentane	5.072	TIC	2785944	9.7977	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration

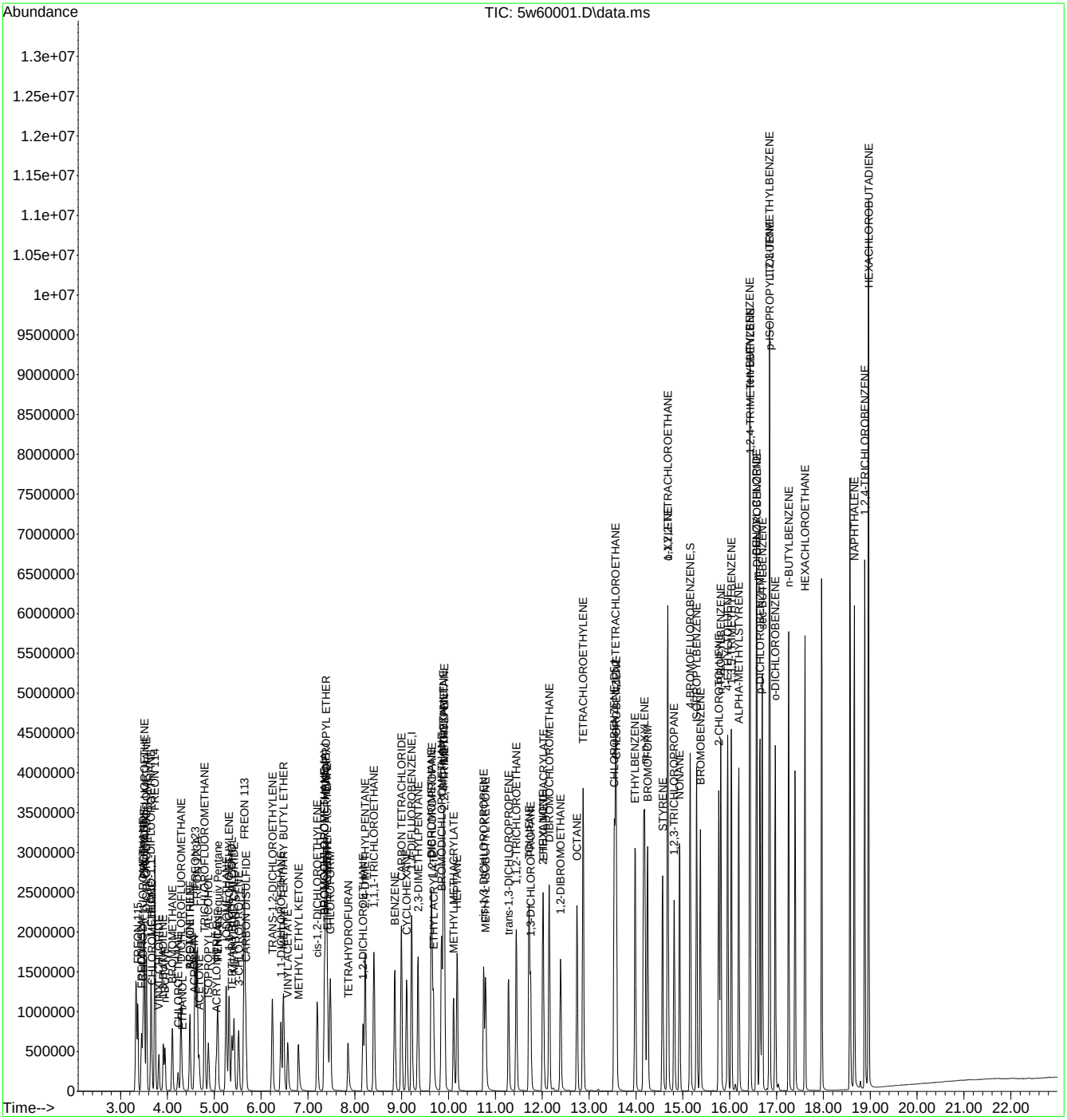
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V5W2301\
Data File : 5w60001.D
Acq On : 24 Nov 2025 9:49 am
Operator : benk
Sample : cc2292-10 Inst : GCMS5W
Misc : MS99064,V5W2301,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 22:59:15 2025
Quant Method : C:\msdchem\1\methods\M5w2292.M
Quant Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Nov 10 09:40:30 2025
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	114117	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	582166	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	538138	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	114117	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	427692	9.77	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	571	0.04	PPBV		82
3) FREON 152A	1.602	65	357	0.05	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	127	0.04	PPBV	#	79
5) CHLOROTRIFLUOROETHENE	1.631	116	598	0.04	PPBV		77
6) DICHLORODIFLUOROMETHANE	1.647	85	1176m	0.03	PPBV		
7) PROPYLENE	1.628	41	518	0.06	PPBV	#	80
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1089	0.04	PPBV		93
9) FREON 114	1.714	85	1188	0.04	PPBV		81
10) CHLOROMETHANE	1.689	52	220	0.06	PPBV		60
11) VINYL CHLORIDE	1.747	62	679	0.05	PPBV	#	92
12) 1,3-BUTADIENE	1.785	54	573	0.05	PPBV	#	62
14) BROMOMETHANE	1.859	94	558	0.05	PPBV	#	95
15) CHLOROETHANE	1.907	64	393	0.05	PPBV		91
16) DICHLOROFLUOROMETHANE	1.930	67	1164	0.04	PPBV	#	56
17) ACETONITRILE	2.001	41	762	0.06	PPBV	#	43
19) FREON 123	2.049	83	1179	0.04	PPBV		97
20) FREON 123A	2.062	117	787	0.05	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.129	101	1269	0.04	PPBV	#	98
24) PENTANE	2.239	42	777	0.06	PPBV	#	82
25) IODOMETHANE	2.300	142	1191	0.04	PPBV		93
26) 1,1-DICHLOROETHYLENE	2.332	96	522	0.04	PPBV	#	59
27) CARBON DISULFIDE	2.460	76	1446	0.04	PPBV	#	4
29) BROMOETHENE	2.001	106	466	0.04	PPBV	#	94
32) 3-CHLOROPROPENE	2.409	76	263	0.04	PPBV	#	64
33) FREON 113	2.460	151	709	0.04	PPBV		83
34) TRANS-1,2-DICHLOROETHENE	2.685	96	555	0.04	PPBV	#	58
35) TERTIARY BUTYL ALCOHOL	2.348	59	1458	0.05	PPBV	#	71
36) METHYL TERTIARY BUTYL ...	2.795	73	1635	0.04	PPBV	#	50
37) TETRAHYDROFURAN	3.499	72	205	0.03	PPBV	#	48
38) HEXANE	3.242	57	1163	0.05	PPBV		87
39) VINYL ACETATE	2.833	86	161	0.05	PPBV	#	13
40) 1,1-DICHLOROETHANE	2.759	63	1028	0.04	PPBV		99
41) METHYL ETHYL KETONE	2.930	72	323	0.05	PPBV	#	25
42) CIS-1,2-DICHLOROETHENE	3.116	96	586	0.04	PPBV		81
43) DIISOPROPYL ETHER	3.245	59	314	0.05	PPBV		88
44) ETHYL ACETATE	3.251	61	203	0.04	PPBV	#	97
45) METHYL ACRYLATE	3.242	55	1383	0.05	PPBV	#	86
46) CHLOROFORM	3.261	83	1053	0.04	PPBV	#	86
47) 2,4-DIMETHYLPENTANE	3.740	57	1228	0.04	PPBV	#	92
48) 1,1,1-TRICHLOROETHANE	3.820	97	1132	0.04	PPBV		92
49) CARBON TETRACHLORIDE	4.235	117	1061	0.04	PPBV		88
50) 1,2-DICHLOROETHANE	3.656	62	712	0.03	PPBV	#	93
51) BENZENE	4.132	78	1781	0.05	PPBV		94
53) CYCLOHEXANE	4.332	84	700	0.04	PPBV	#	56
54) 2,3-DIMETHYLPENTANE	4.586	71	330	0.04	PPBV	#	6
55) TRICHLOROETHENE	5.013	95	741	0.04	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	703	0.04	PPBV	#	77
57) DIBROMOMETHANE	4.740	174	802	0.05	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

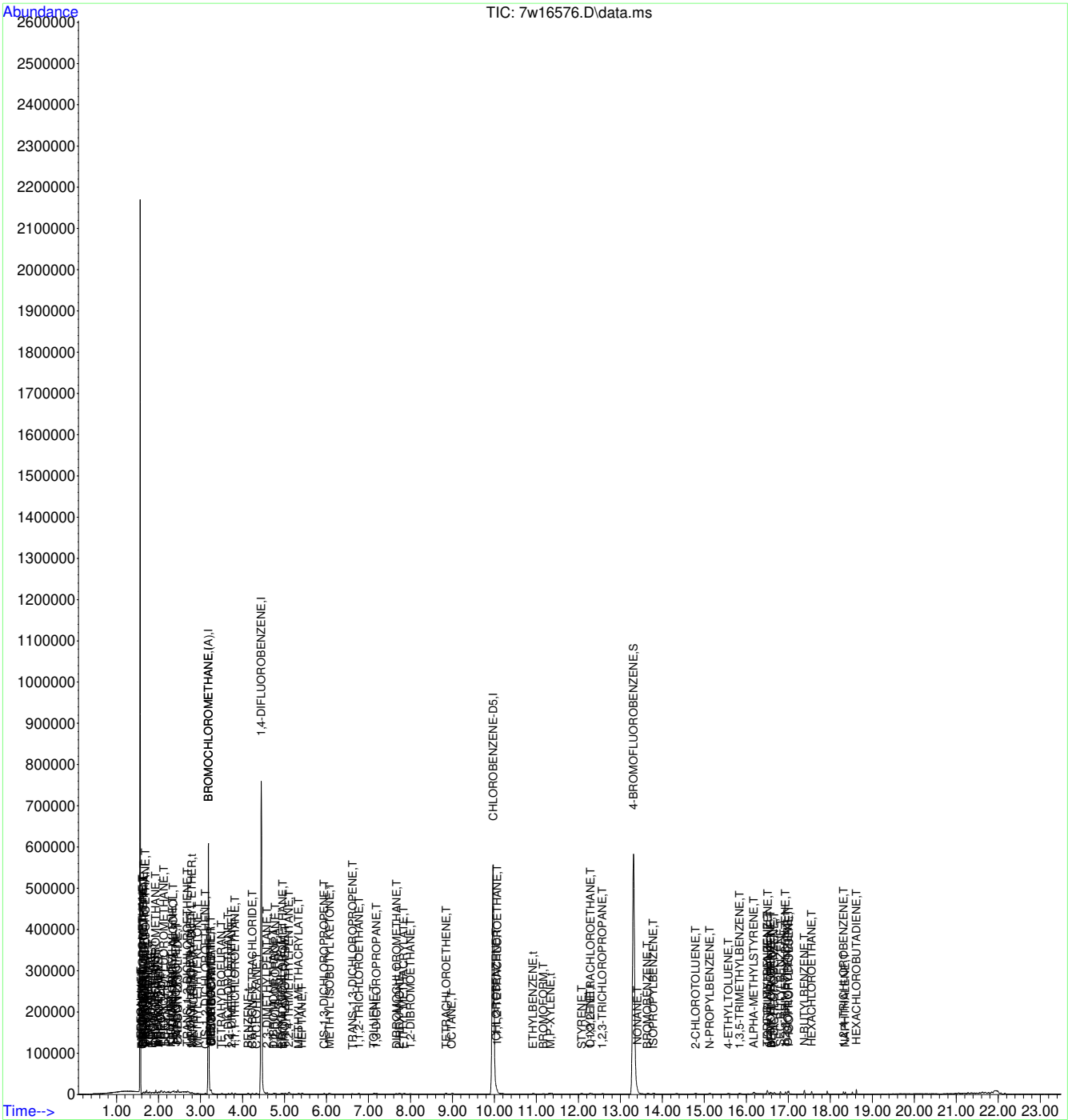
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) ETHYL ACRYLATE	4.920	55	1547	0.04	PPBV #	87
59) BROMODICHLOROMETHANE	4.959	83	1145	0.04	PPBV	97
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	3683	0.05	PPBV #	90
62) HEPTANE	5.418	43	1262	0.05	PPBV	89
63) METHYL METHACRYLATE	5.332	69	659	0.04	PPBV #	71
64) METHYL ISOBUTYL KETONE	6.074	58	776	0.05	PPBV #	93
65) CIS-1,3-DICHLOROPROPENE	5.939	75	908	0.03	PPBV	89
66) TOLUENE	7.129	91	1961	0.04	PPBV	94
67) 1,3-DICHLOROPROPANE	7.187	76	917	0.04	PPBV #	90
68) TRANS-1,3-DICHLOROPROPENE	6.624	75	685	0.03	PPBV #	73
69) 1,1,2-TRICHLOROETHANE	6.775	83	432	0.03	PPBV	88
70) 2-HEXANONE	7.733	58	1334	0.06	PPBV #	1
71) ETHYL METHACRYLATE	7.836	69	991	0.04	PPBV #	33
72) TETRACHLOROETHENE	8.852	164	707	0.04	PPBV #	62
73) DIBROMOCHLOROMETHANE	7.669	129	938	0.03	PPBV #	21
74) 1,2-DIBROMOETHANE	8.004	107	998	0.04	PPBV #	98
75) OCTANE	8.981	43	1632	0.04	PPBV #	30
77) 1,1,1,2-TETRACHLOROETHANE	10.065	131	804	0.04	PPBV	100
78) CHLOROBENZENE	10.039	112	1584	0.04	PPBV #	75
79) ETHYLBENZENE	10.917	91	2610	0.04	PPBV	87
80) M,P-XYLENE	11.335	91	4291	0.08	PPBV	90
81) O-XYLENE	12.280	91	2009	0.04	PPBV #	64
82) STYRENE	12.077	104	1372	0.04	PPBV	94
83) NONANE	13.408	43	1708	0.04	PPBV #	21
84) BROMOFORM	11.164	173	746	0.03	PPBV #	92
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	1386	0.04	PPBV #	91
86) 1,2,3-TRICHLOROPROPANE	12.566	75	1086	0.04	PPBV #	99
88) ISOPROPYLBENZENE	13.778	120	720	0.04	PPBV	100
89) BROMOBENZENE	13.643	77	1476	0.04	PPBV #	72
90) 2-CHLOROTOLUENE	14.788	126	652	0.04	PPBV #	66
91) N-PROPYLBENZENE	15.125	120	688	0.03	PPBV #	64
92) 4-ETHYLTOLUENE	15.569	105	2796	0.04	PPBV #	93
93) 1,3,5-TRIMETHYLBENZENE	15.842	105	2434	0.04	PPBV	88
94) ALPHA-METHYLSTYRENE	16.180	118	1042	0.03	PPBV	91
95) TERT-BUTYLBENZENE	16.495	134	685	0.05	PPBV	91
96) 1,2,4-TRIMETHYLBENZENE	16.508	105	2331	0.04	PPBV	91
97) BENZYL CHLORIDE	16.601	91	1503	0.03	PPBV	89
98) M-DICHLOROBENZENE	16.572	146	1758	0.04	PPBV	98
99) P-DICHLOROBENZENE	16.666	146	1701	0.04	PPBV	93
100) O-DICHLOROBENZENE	16.987	146	1470	0.04	PPBV	92
101) SEC-BUTYLBENZENE	16.810	134	660	0.04	PPBV	63
102) 1,2,3-TRIMETHYLBENZENE	16.932	105	2483	0.04	PPBV	94
103) P-ISOPROPYLTOLUENE	17.013	134	767	0.04	PPBV	86
104) N-BUTYLBENZENE	17.376	134	703	0.04	PPBV	66
105) HEXACHLOROETHANE	17.556	117	895	0.04	PPBV	97
106) HEXACHLOROBUTADIENE	18.620	225	1203	0.04	PPBV	98
107) 1,2,4-TRICHLOROBENZENE	18.312	180	1219	0.03	PPBV	94
108) NAPHTHALENE	18.357	128	2545	0.03	PPBV	94

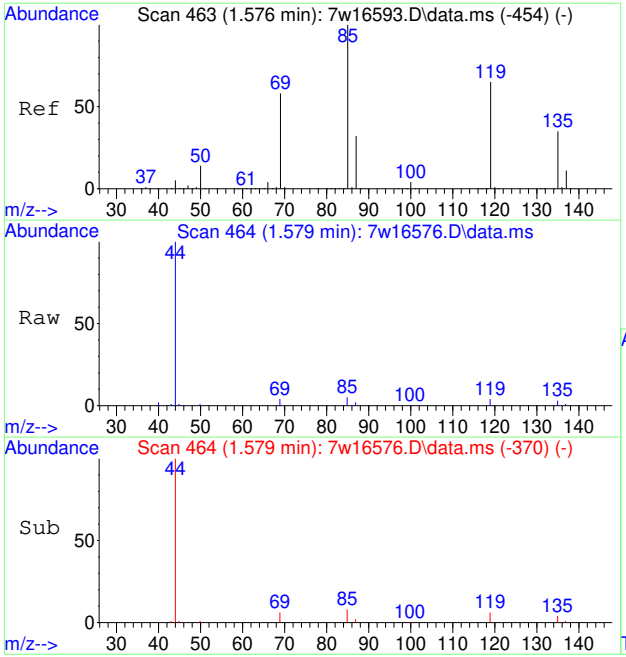
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:57:58 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

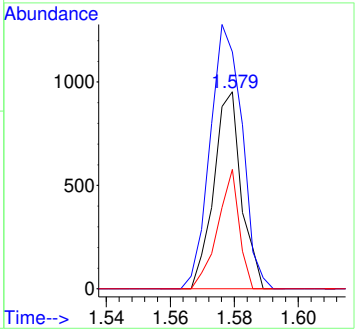


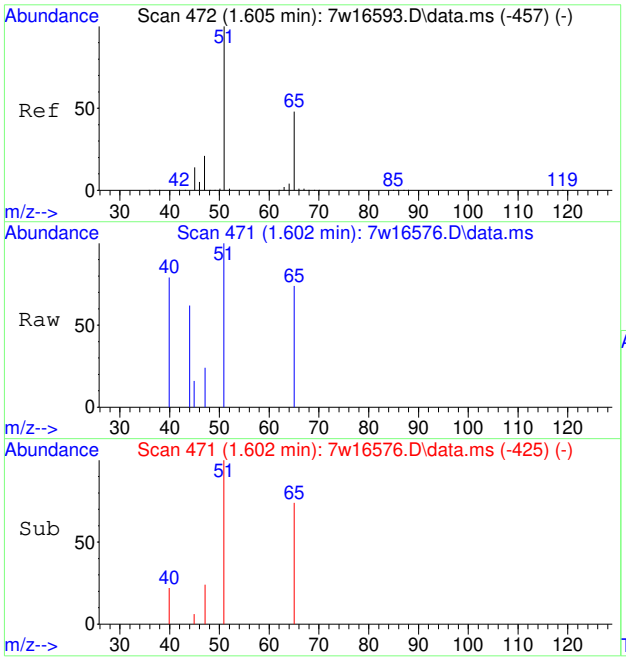


#2
FREON 115
Concen: 0.04 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:119 Resp: 571

Ion	Ratio	Lower	Upper
119	100		
85	155.3	90.9	168.7
135	47.3	38.2	71.0

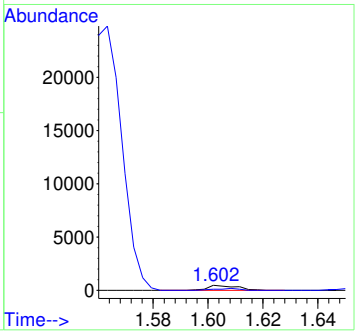


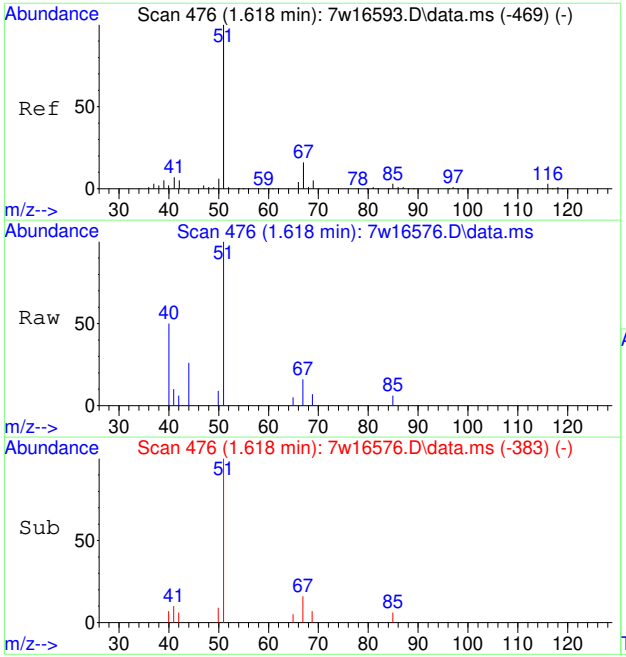


#3
FREON 152A
Concen: 0.05 PPBV
RT: 1.602 min Scan# 471
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 357

Ion	Ratio	Lower	Upper
65	100		
45	30.5	20.6	38.4

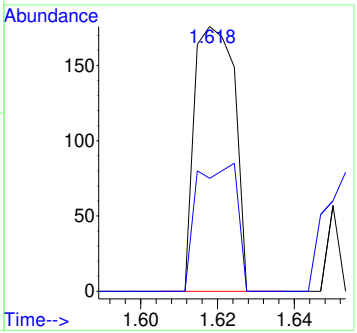


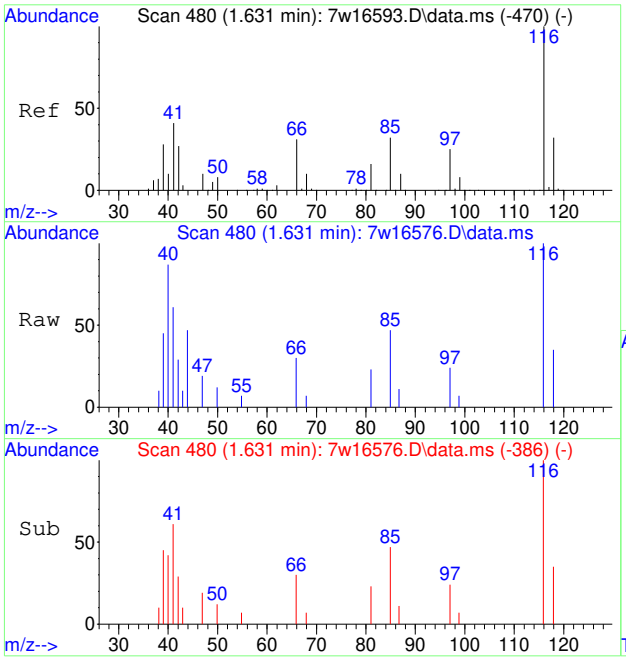


#4
CHLORODIFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 127

Ion	Ratio	Lower	Upper
67	100		
69	48.8	25.4	47.2#

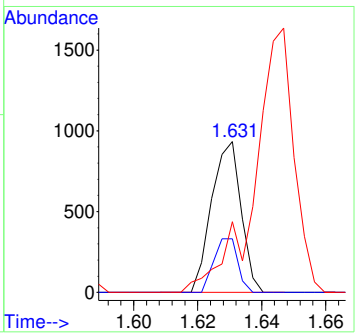


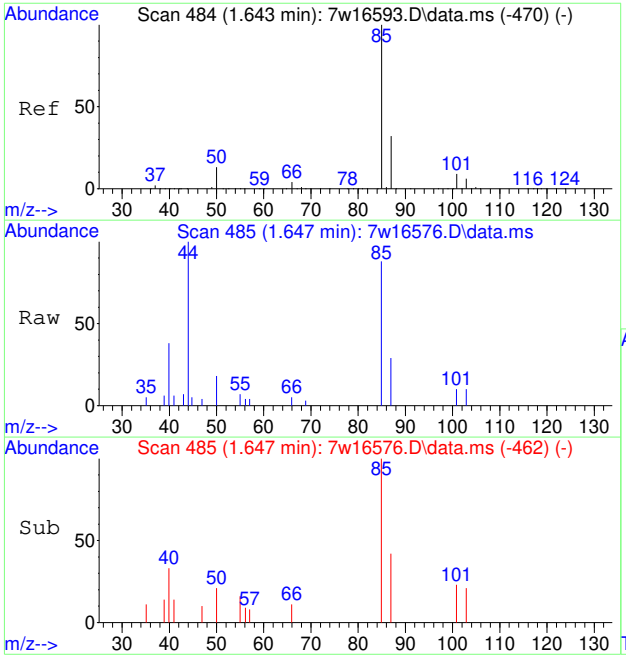


#5
CHLOROTRIFLUOROETHENE
Concen: 0.04 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:116 Resp: 598

Ion	Ratio	Lower	Upper
116	100		
118	28.9	22.7	42.1
85	232.1	194.7	361.7

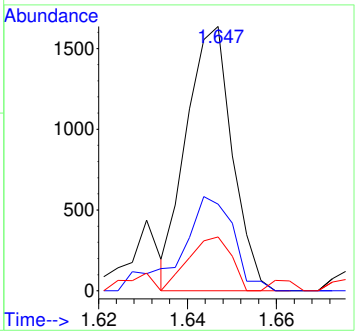


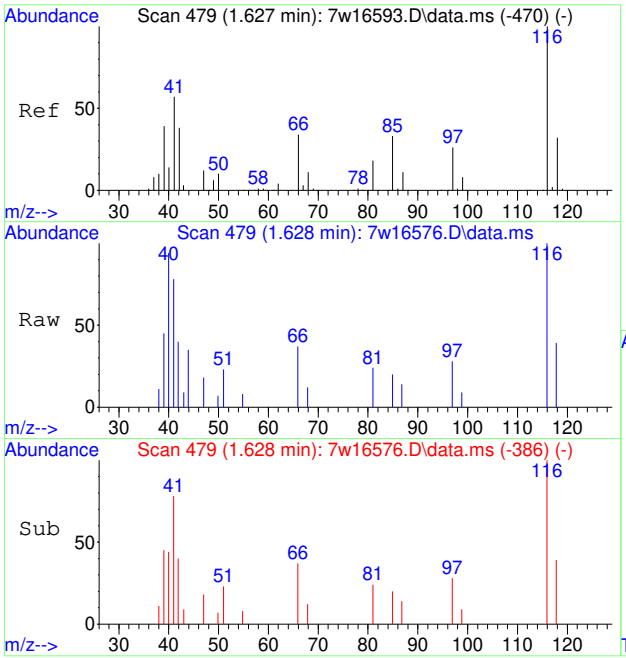


#6
DICHLORODIFLUOROMETHANE
Concen: 0.03 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1176

Ion	Ratio	Lower	Upper
85	100		
87	40.9	23.1	42.9
50	27.6	12.1	22.5#

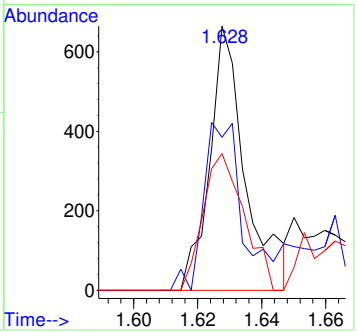


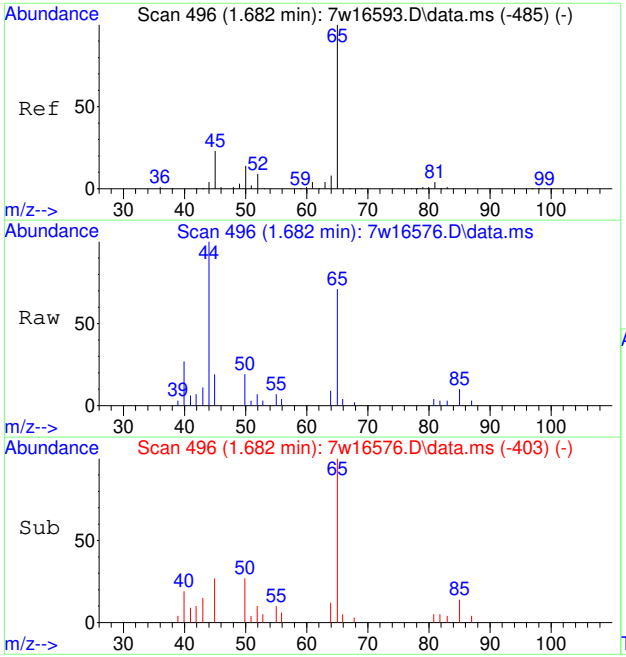


#7
PROPYLENE
Concen: 0.06 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 518

Ion	Ratio	Lower	Upper
41	100		
39	98.5	51.0	94.8#
42	59.3	46.6	86.6

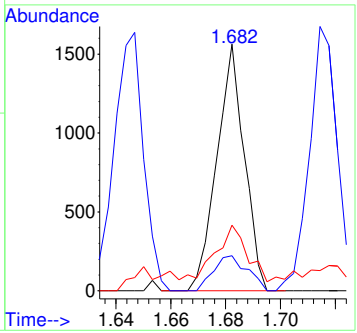


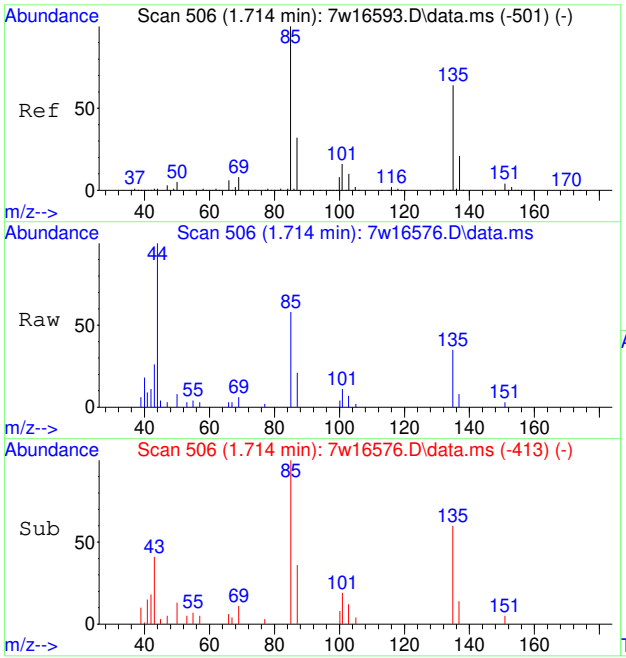


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.04 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 65 Resp: 1089

Ion	Ratio	Lower	Upper
65	100		
85	17.5	9.7	17.9
45	27.3	17.0	31.6

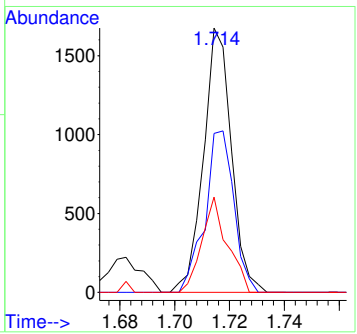


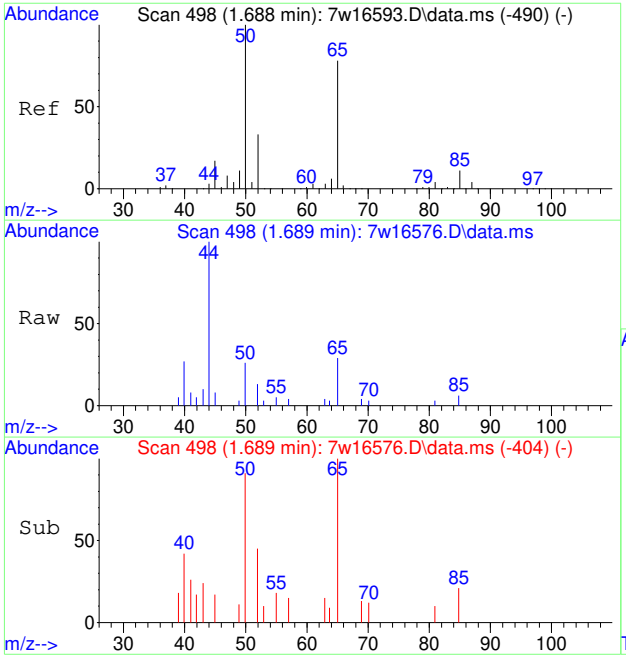


#9
FREON 114
Concen: 0.04 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 85 Resp: 1188

Ion	Ratio	Lower	Upper
85	100		
135	63.0	61.3	113.9
87	32.9	23.2	43.0

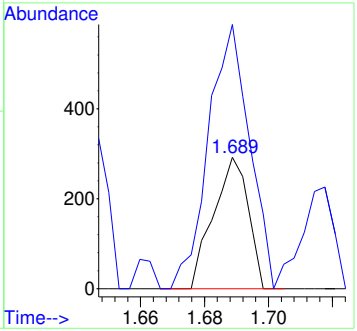


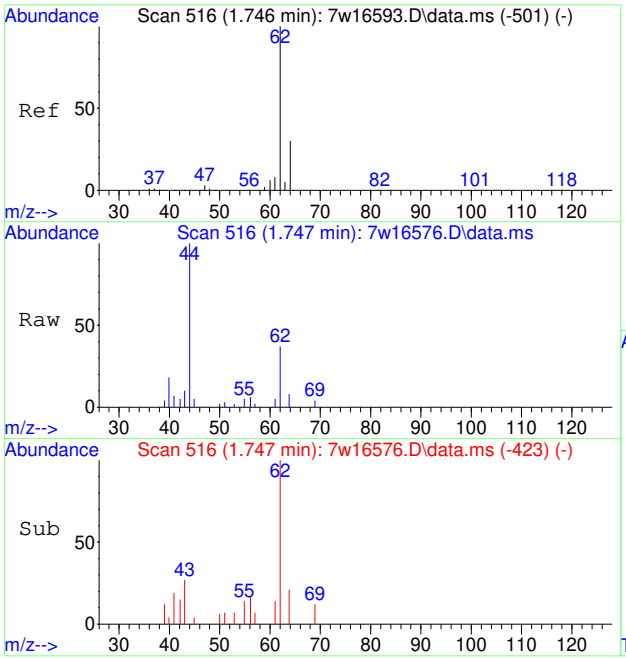


#10
CHLOROMETHANE
Concen: 0.06 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 52 Resp: 220

Ion	Ratio	Lower	Upper
52	100		
50	242.3	227.6	422.6

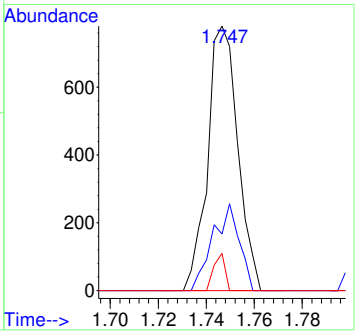


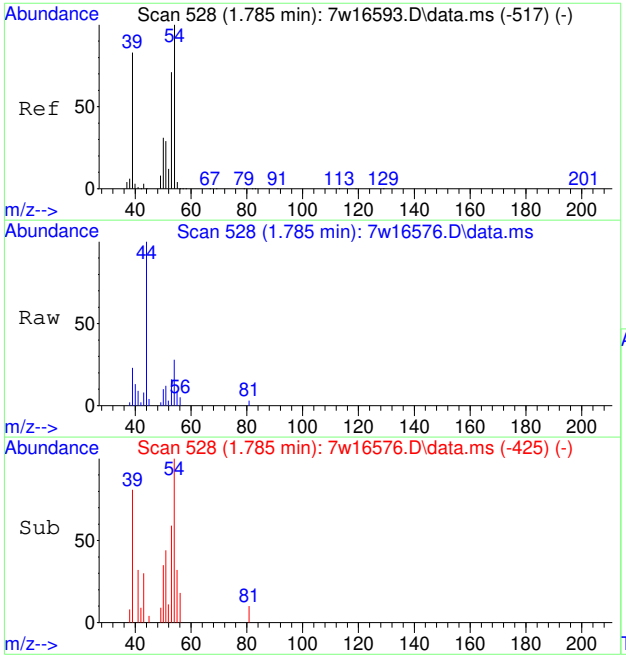


#11
VINYL CHLORIDE
Concen: 0.05 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 679

Ion	Ratio	Lower	Upper
62	100		
64	28.9	21.6	40.2
61	0.0	5.7	10.7#

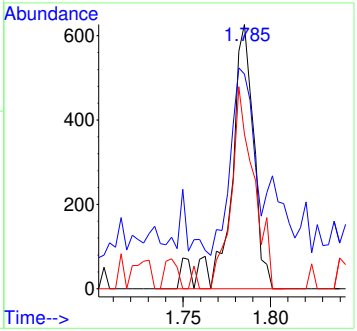


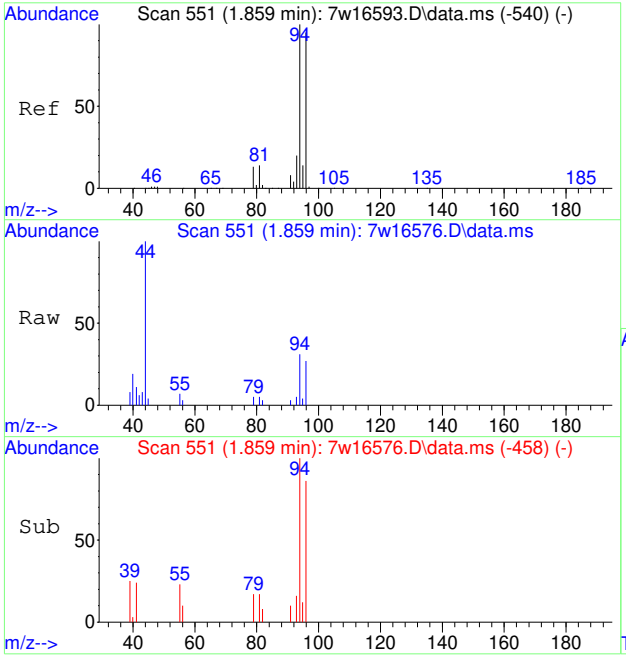


#12
1,3-BUTADIENE
Concen: 0.05 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 54 Resp: 573

Ion	Ratio	Lower	Upper
54	100		
39	88.8	125.6	185.6#
53	76.8	40.7	100.7

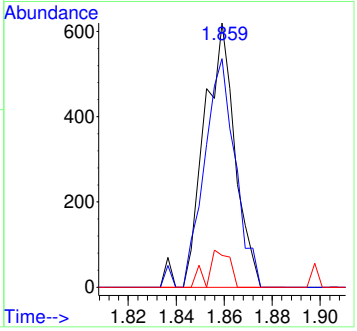


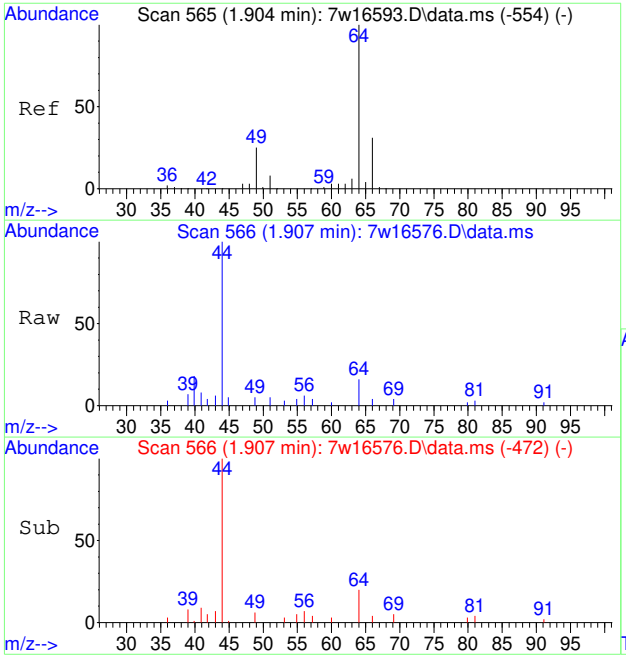


#14
BROMOMETHANE
Concen: 0.05 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 94 Resp: 558

Ion	Ratio	Lower	Upper
94	100		
96	87.3	63.6	118.0
95	9.9	10.0	18.6#

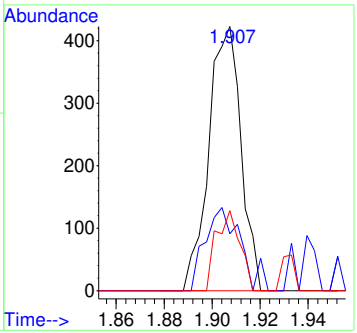


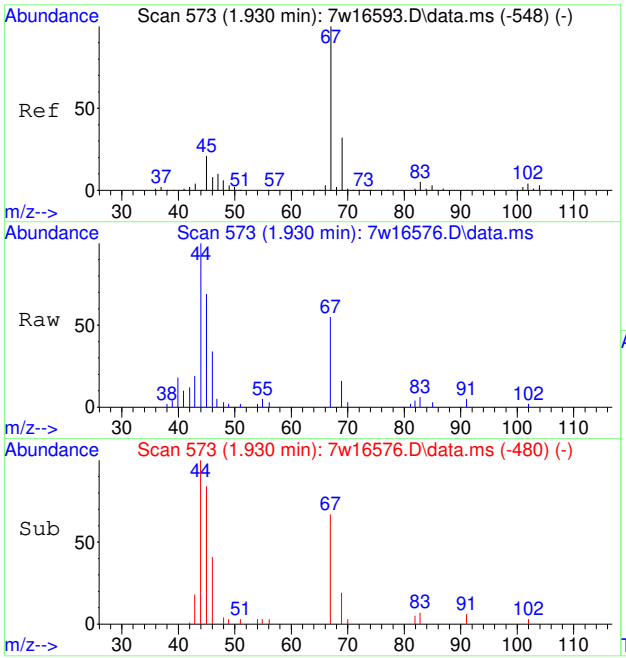


#15
CHLOROETHANE
Concen: 0.05 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 64 Resp: 393

Ion	Ratio	Lower	Upper
64	100		
66	34.9	23.0	42.6
49	22.4	21.5	39.9

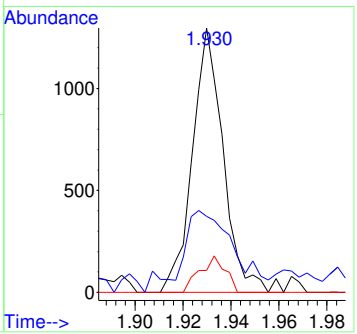


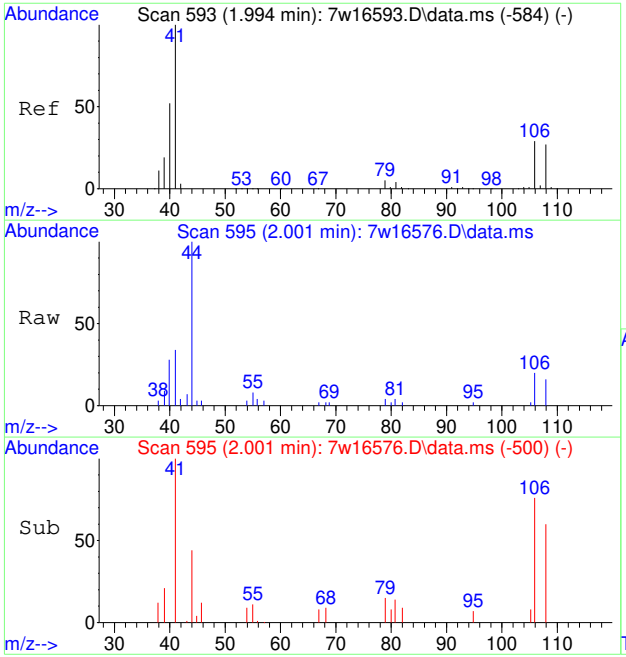


#16
DICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 67 Resp: 1164

Ion	Ratio	Lower	Upper
67	100		
69	67.2	23.2	43.0#
47	11.3	9.6	17.8

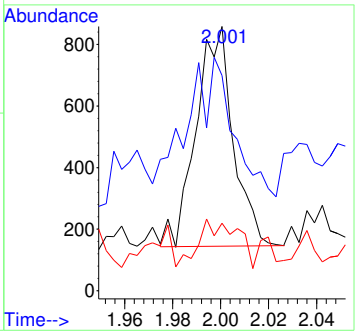


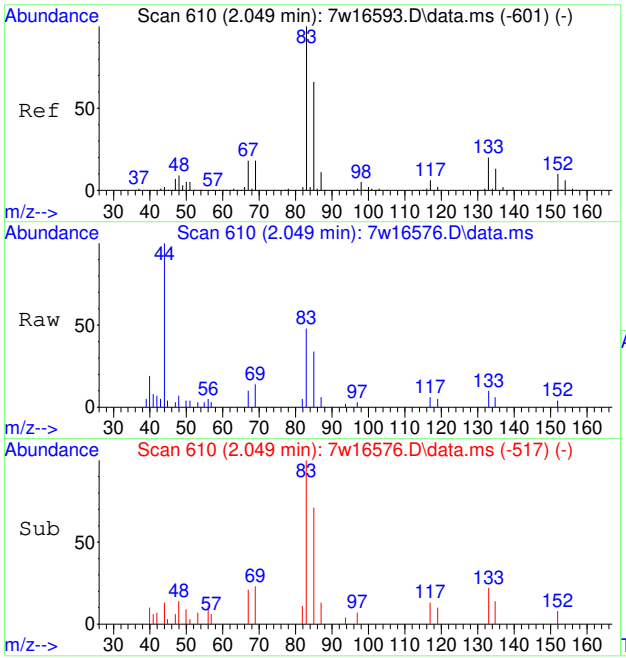


#17
ACETONITRILE
Concen: 0.06 PPBV
RT: 2.001 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 41 Resp: 762

Ion	Ratio	Lower	Upper
41	100		
40	110.5	38.4	71.4#
39	23.4	14.5	26.9

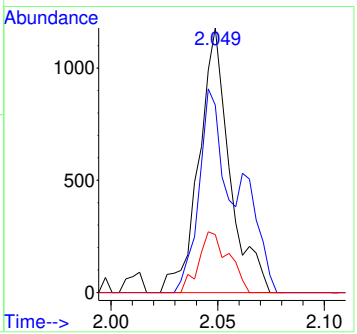


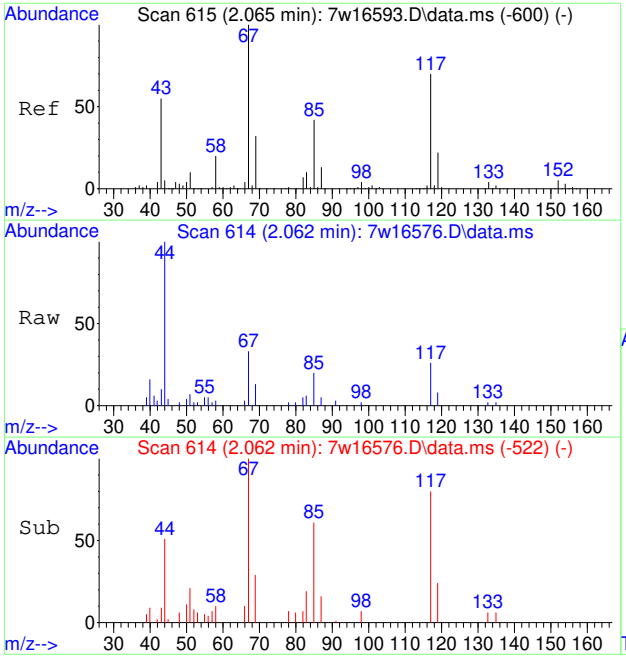


#19
FREON 123
Concen: 0.04 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1179

Ion	Ratio	Lower	Upper
83	100		
85	94.0	65.7	121.9
133	22.4	19.9	36.9

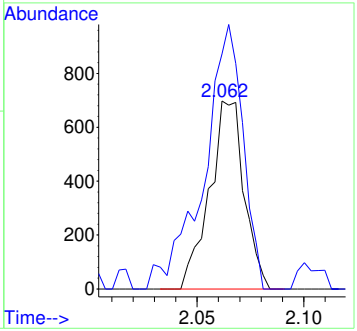


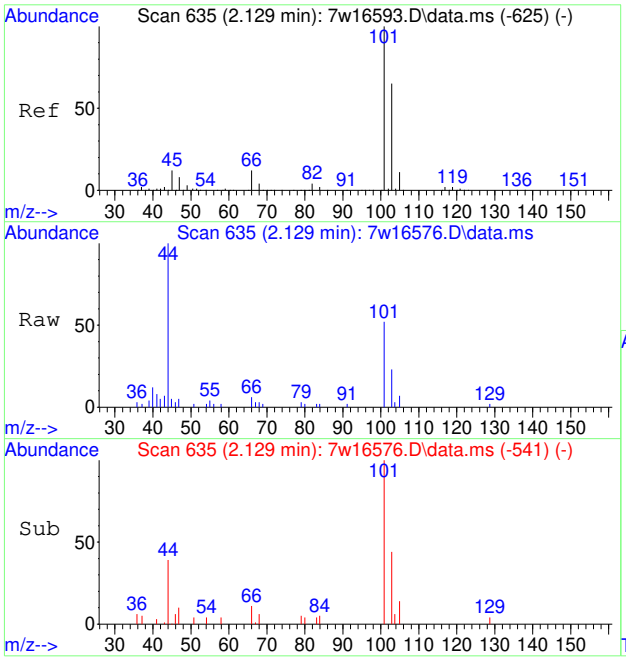


#20
FREON 123A
Concen: 0.05 PPBV
RT: 2.062 min Scan# 614
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 787

Ion	Ratio	Lower	Upper
117	100		
67	158.8	78.8	146.4#

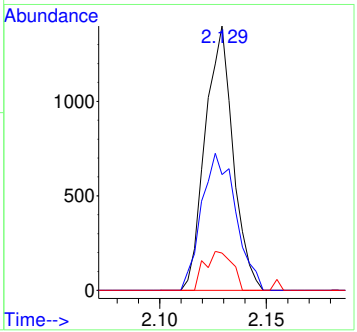


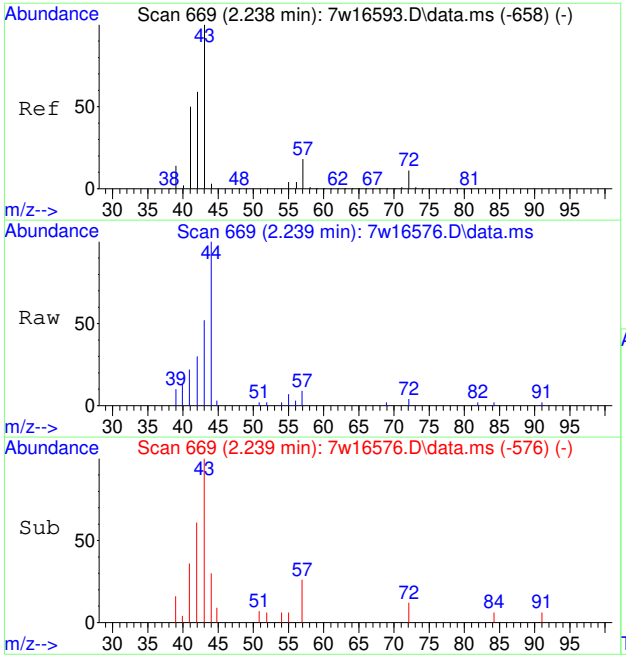


#21
TRICHLOROFLUOROMETHANE
Concen: 0.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:101 Resp: 1269

Ion	Ratio	Lower	Upper
101	100		
103	64.0	44.3	82.3
105	14.7	7.3	13.7#

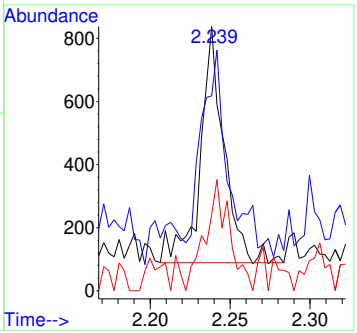


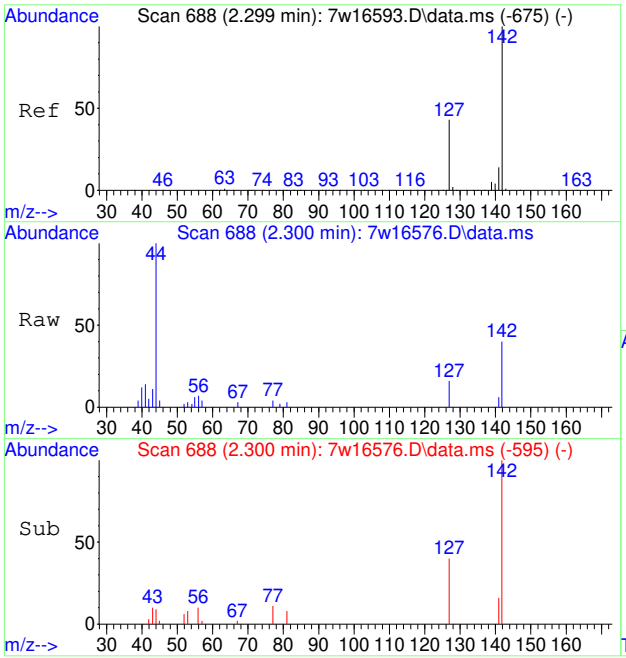


#24
PENTANE
Concen: 0.06 PPBV
RT: 2.239 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 42 Resp: 777

Ion	Ratio	Lower	Upper
42	100		
41	109.0	69.2	128.6
57	51.7	18.6	34.6#

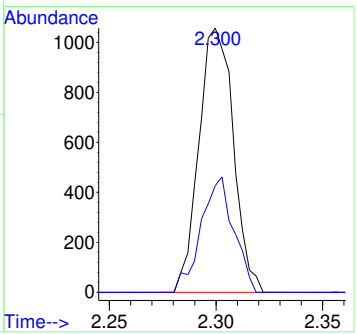


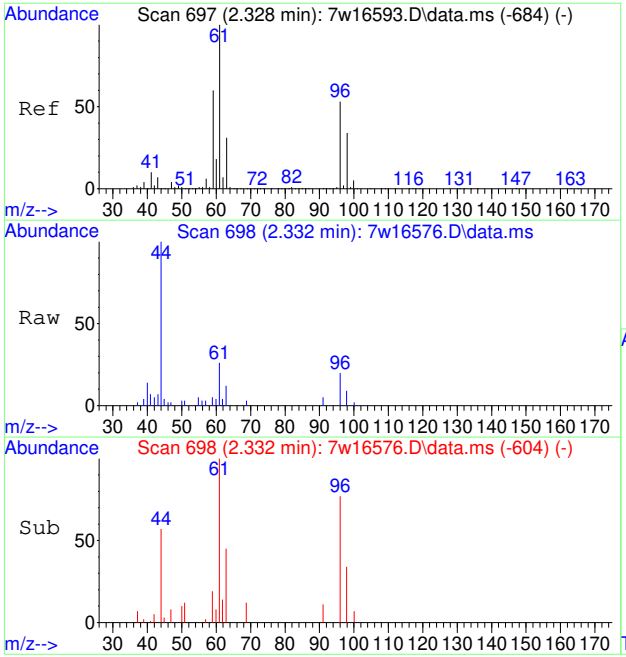


#25
IODOMETHANE
Concen: 0.04 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:142 Resp: 1191

Ion	Ratio	Lower	Upper
142	100		
127	41.4	32.1	59.7

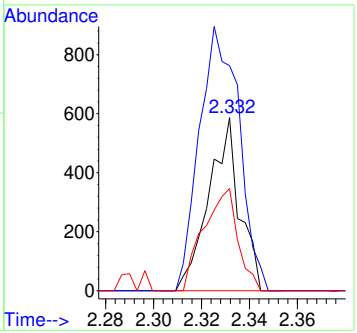


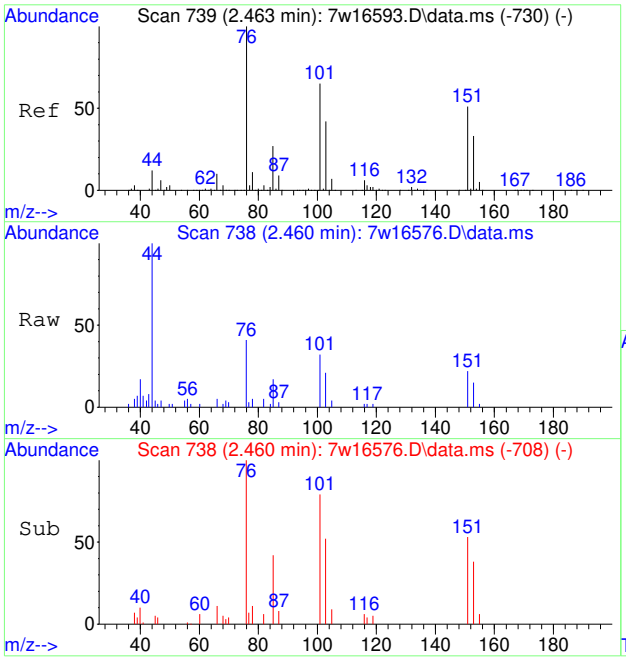


#26
1,1-DICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 2.332 min Scan# 698
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 522

Ion	Ratio	Lower	Upper
96	100		
61	196.4	98.3	182.5#
63	65.7	33.2	61.7#

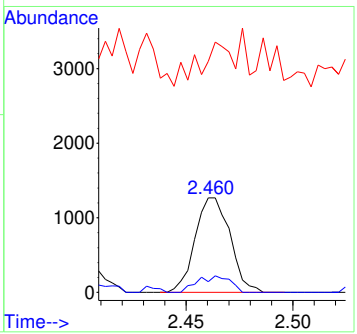


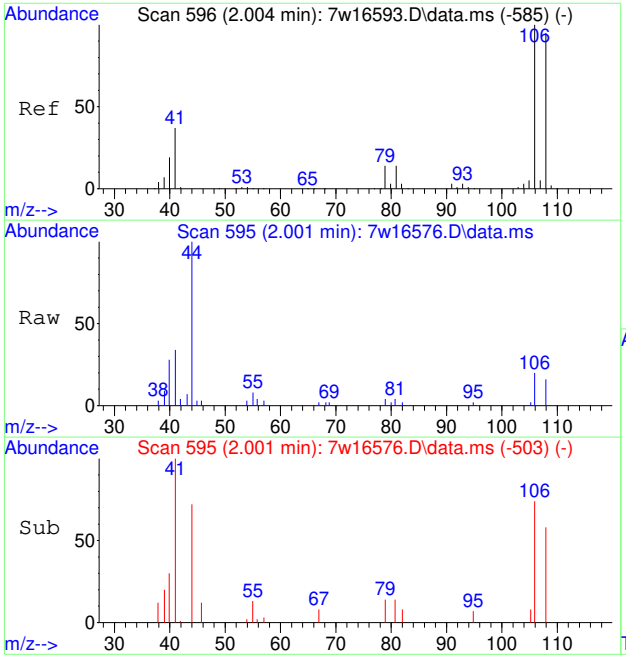


#27
CARBON DISULFIDE
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 1446

Ion	Ratio	Lower	Upper
76	100		
78	16.3	8.3	15.3#
44	85.3	13.0	24.1#

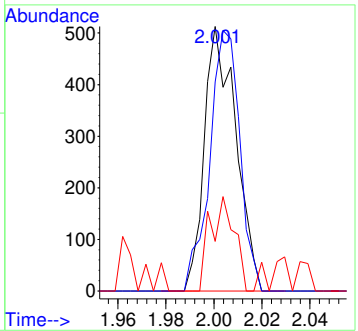


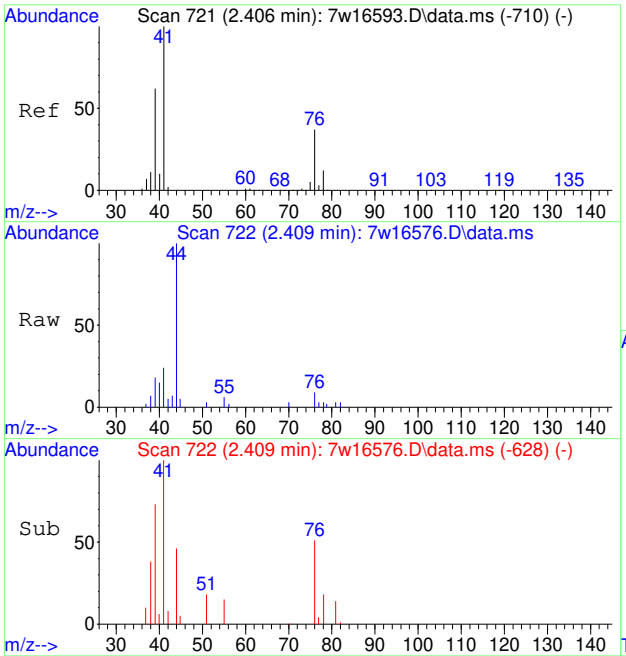


#29
BROMOETHENE
Concen: 0.04 PPBV
RT: 2.001 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:106 Resp: 466

Ion	Ratio	Lower	Upper
106	100		
108	94.2	68.3	126.8
81	29.8	14.7	27.3#

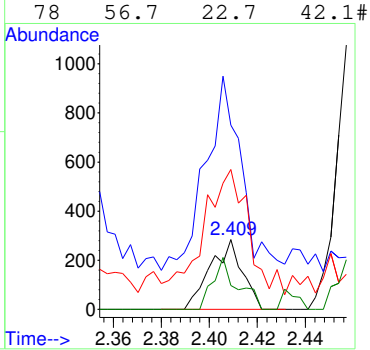


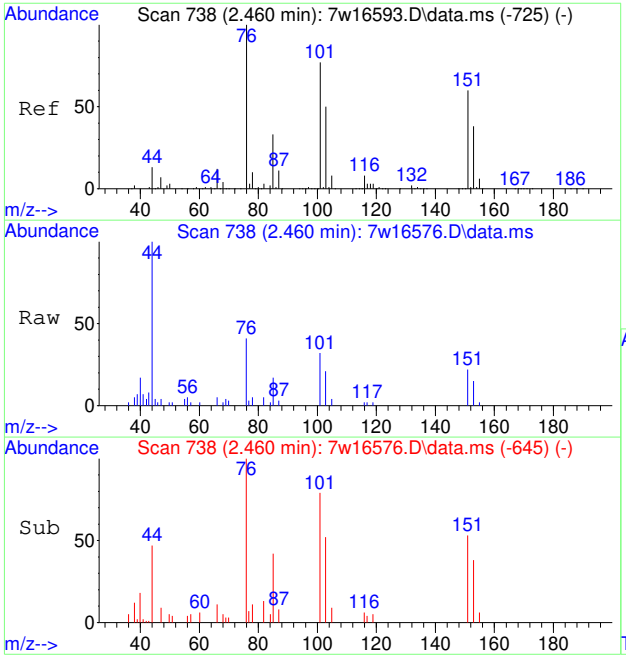


#32
3-CHLOROPROPENE
Concen: 0.04 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 263

Ion	Ratio	Lower	Upper
76	100		
41	309.5	160.9	298.9#
39	248.7	150.7	279.9
78	56.7	22.7	42.1#

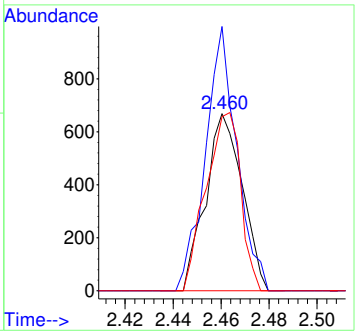


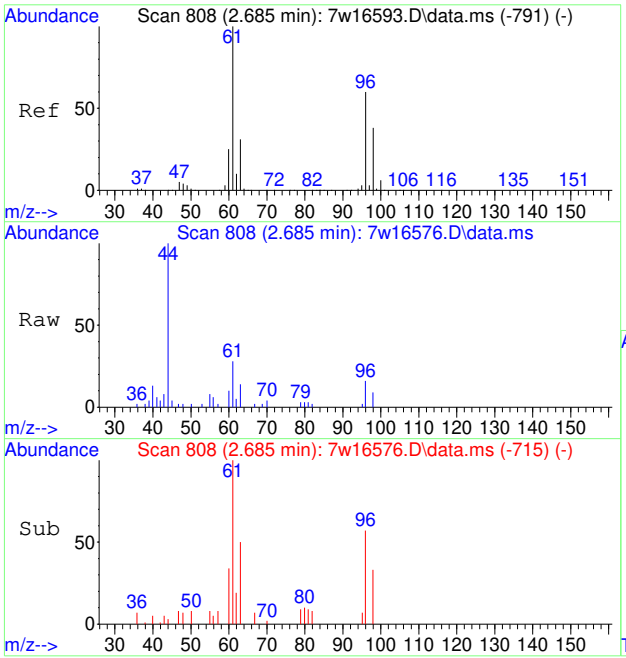


#33
FREON 113
Concen: 0.04 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:151 Resp: 709

Ion	Ratio	Lower	Upper
151	100		
101	127.8	81.1	150.7
103	95.2	51.4	95.4

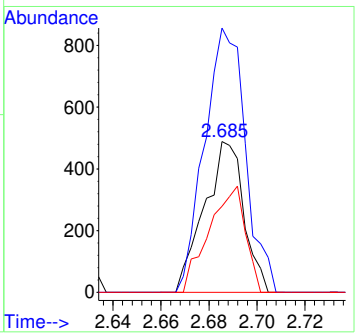


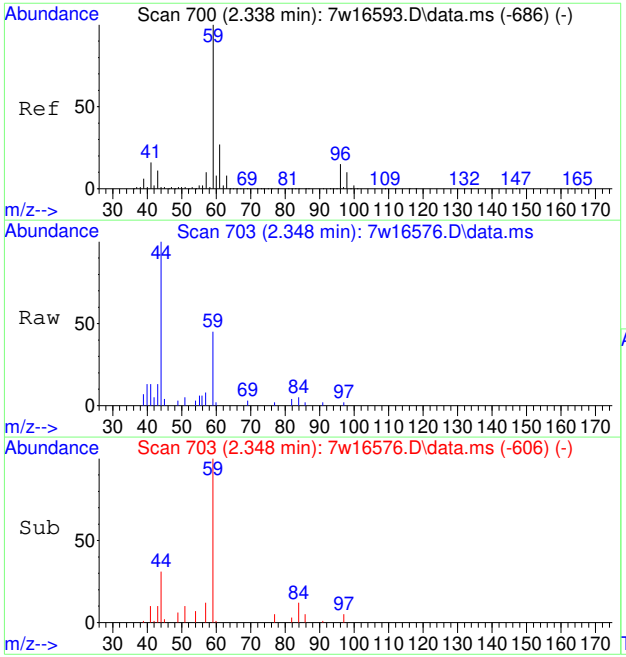


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 555

Ion	Ratio	Lower	Upper
96	100		
61	182.7	78.5	145.9#
98	65.2	46.5	86.3

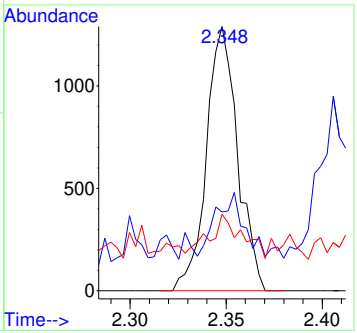


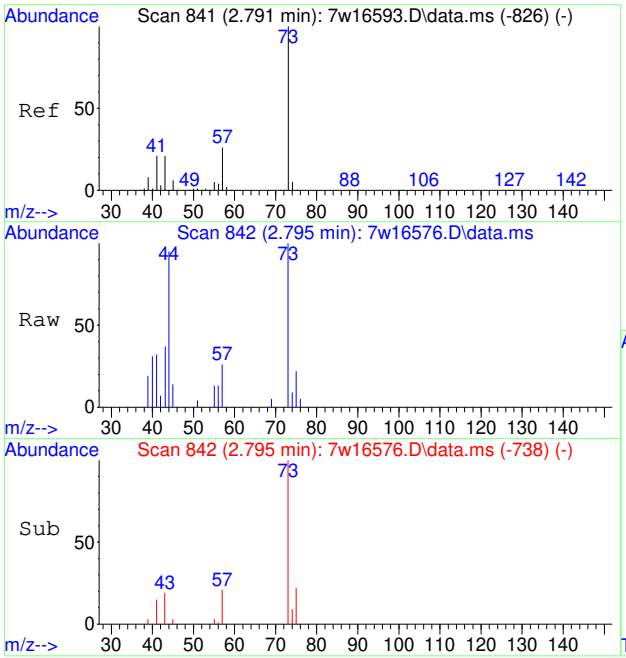


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.05 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 1458

Ion	Ratio	Lower	Upper
59	100		
41	32.6	15.3	28.5#
43	33.5	12.3	22.9#

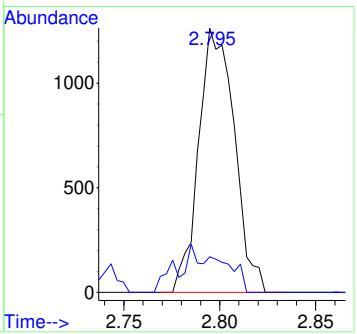


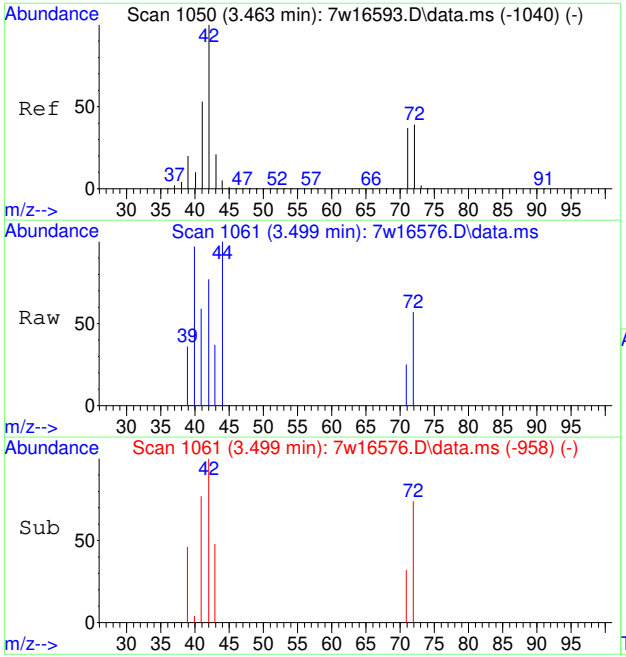


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.04 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 73 Resp: 1635

Ion	Ratio	Lower	Upper
73	100		
45	21.6	3.4	6.4#

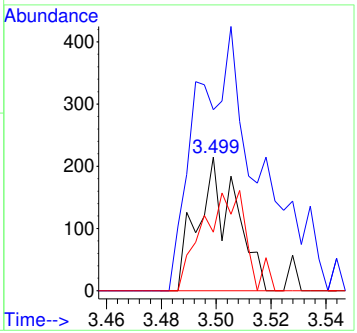


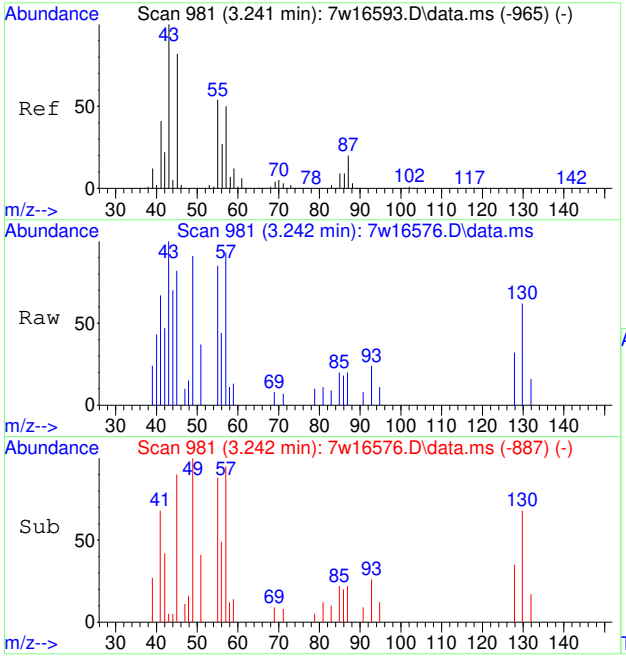


#37
TETRAHYDROFURAN
Concen: 0.03 PPBV
RT: 3.499 min Scan# 1061
Delta R.T. 0.032 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 205

Ion	Ratio	Lower	Upper
72	100		
42	334.1	153.0	284.2#
71	85.9	62.7	116.5

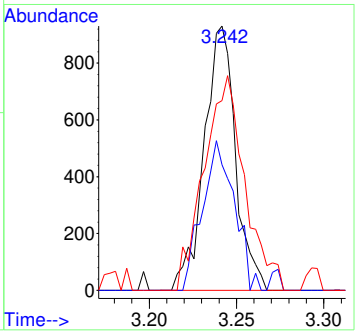


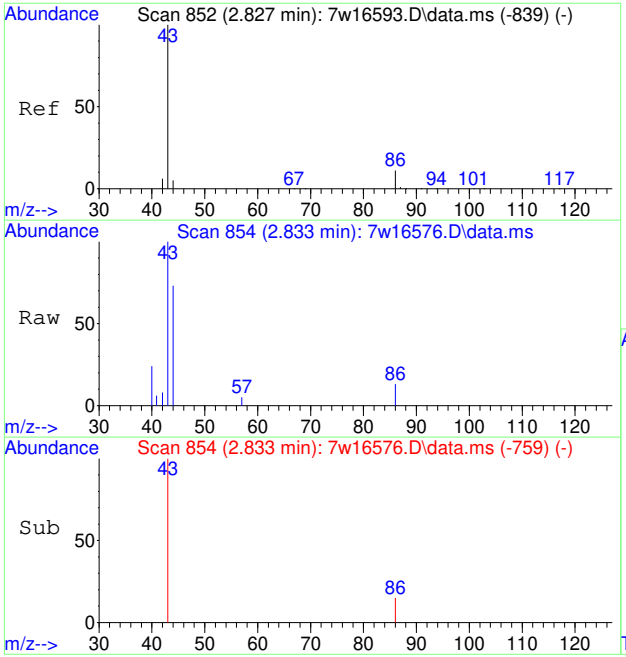


#38
HEXANE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1163

Ion	Ratio	Lower	Upper
57	100		
56	58.0	37.3	69.3
41	105.6	86.7	161.1

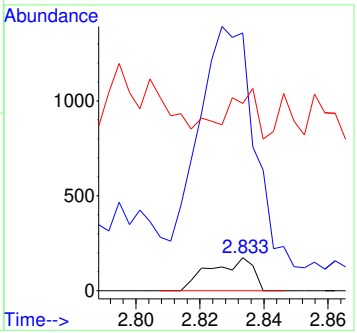


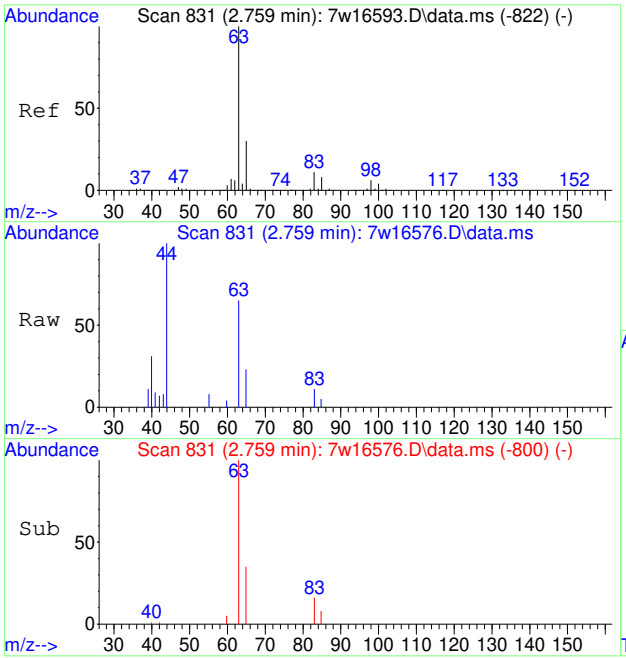


#39
VINYL ACETATE
Concen: 0.05 PPBV
RT: 2.833 min Scan# 854
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 86 Resp: 161

Ion	Ratio	Lower	Upper
86	100		
43	1339.1	667.9	1240.3#
44	80.7	32.7	60.7#

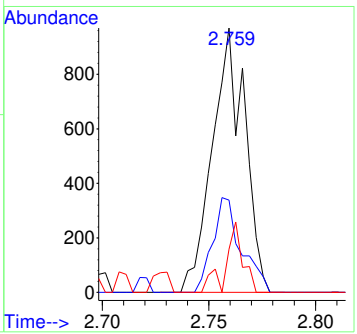


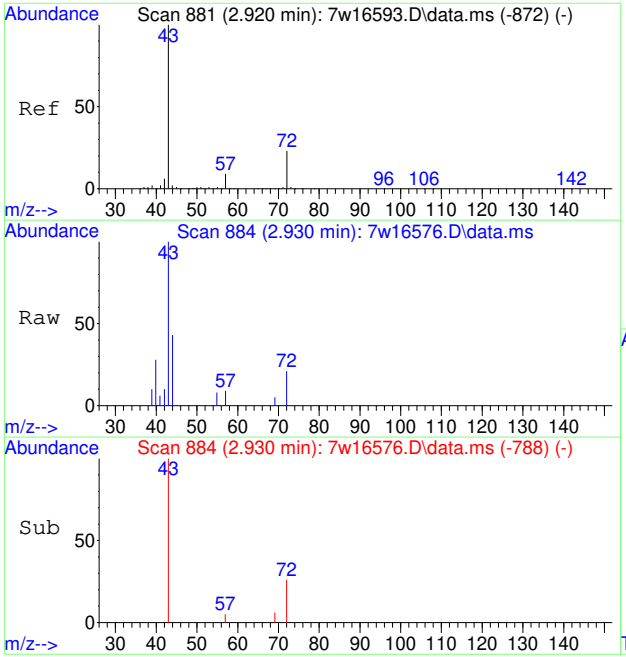


#40
1,1-DICHLOROETHANE
Concen: 0.04 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 1028

Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.8	40.6
83	14.1	10.6	19.6

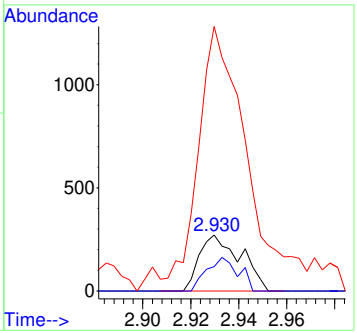


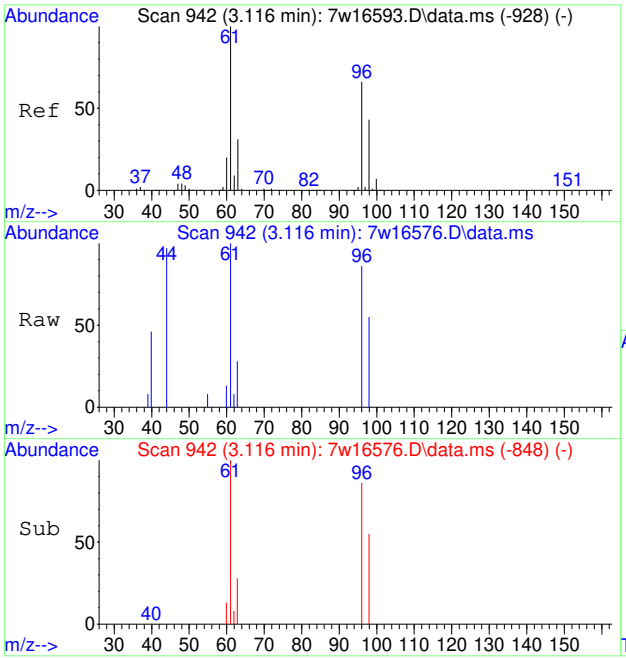


#41
METHYL ETHYL KETONE
Concen: 0.05 PPBV
RT: 2.930 min Scan# 884
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 72 Resp: 323

Ion	Ratio	Lower	Upper
72	100		
57	45.8	20.3	37.7#
43	590.4	282.8	525.2#

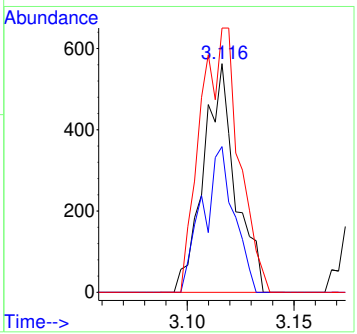


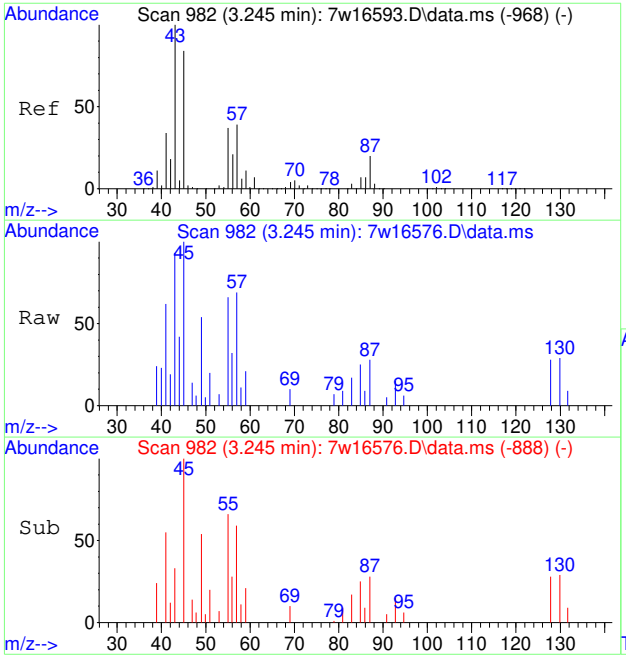


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.04 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 96 Resp: 586

Ion	Ratio	Lower	Upper
96	100		
98	63.0	46.8	86.8
61	140.8	78.3	145.5

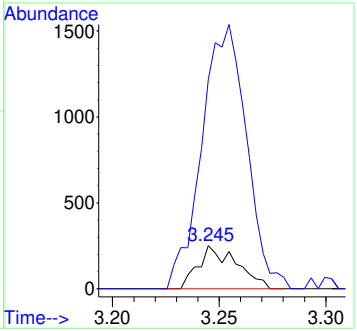


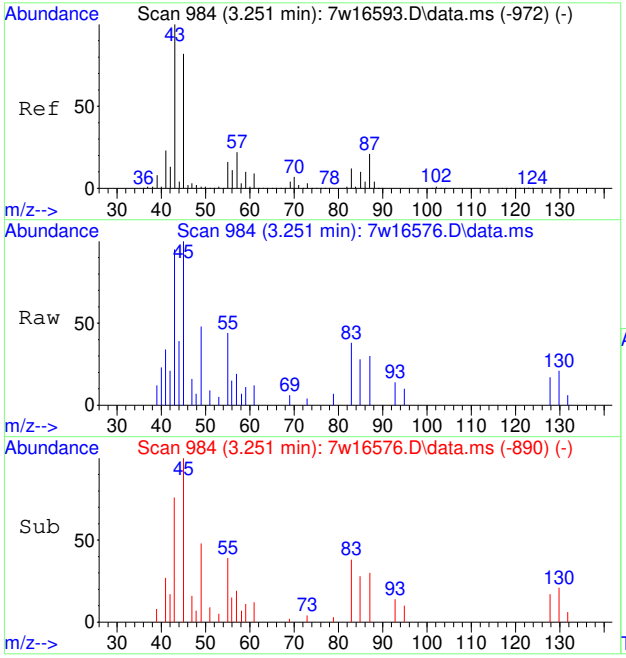


#43
DIISOPROPYL ETHER
Concen: 0.05 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 59 Resp: 314

Ion	Ratio	Lower	Upper
59	100		
45	714.3	532.1	988.1

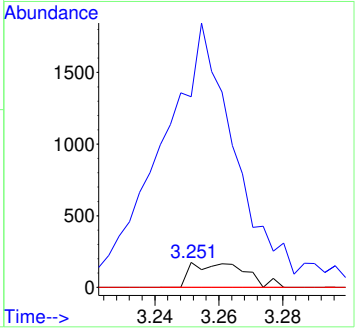


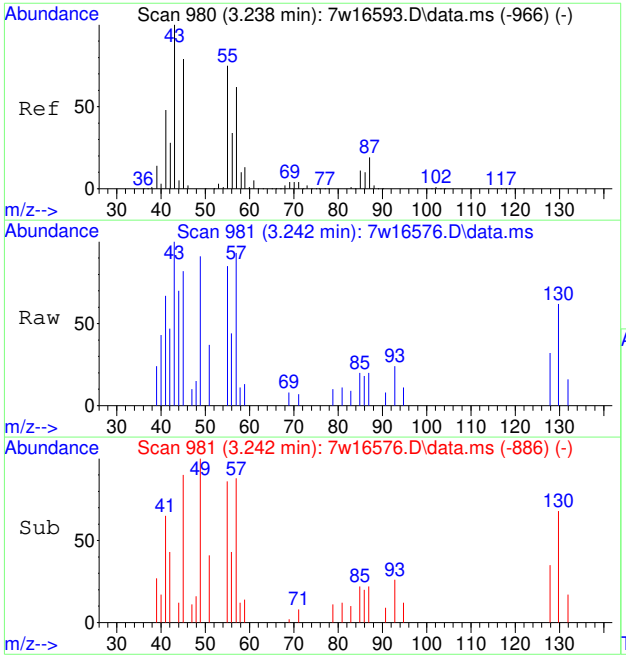


#44
ETHYL ACETATE
Concen: 0.04 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 61 Resp: 203

Ion	Ratio	Lower	Upper
61	100		
43	1613.8	1127.5	2093.9
88	0.0	36.2	67.2#

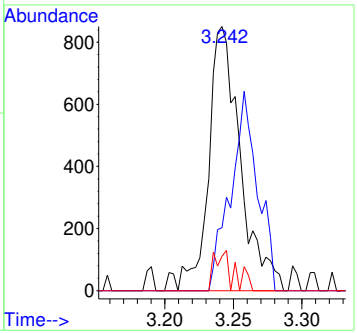


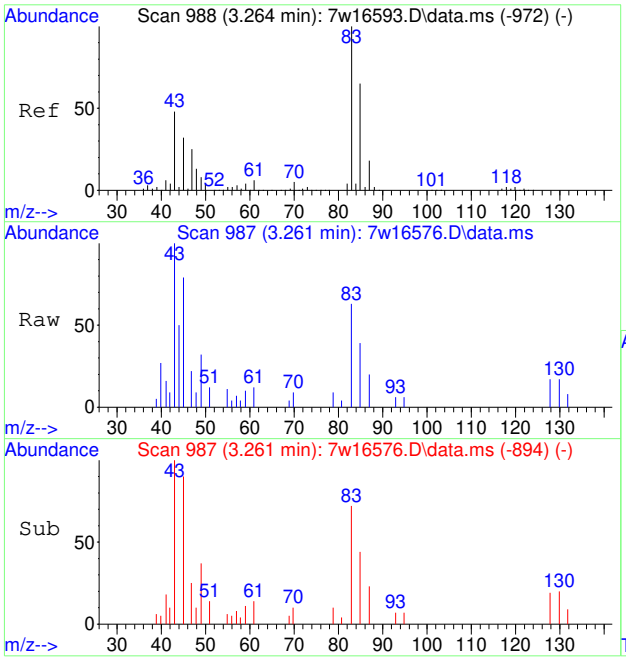


#45
METHYL ACRYLATE
Concen: 0.05 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1383

Ion	Ratio	Lower	Upper
55	100		
85	63.6	0.0	0.0#
58	7.4	9.2	17.0#

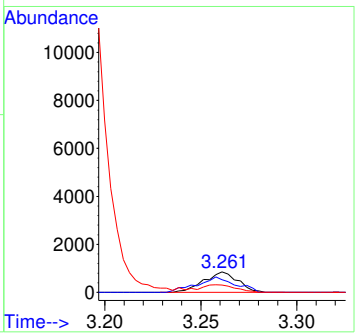


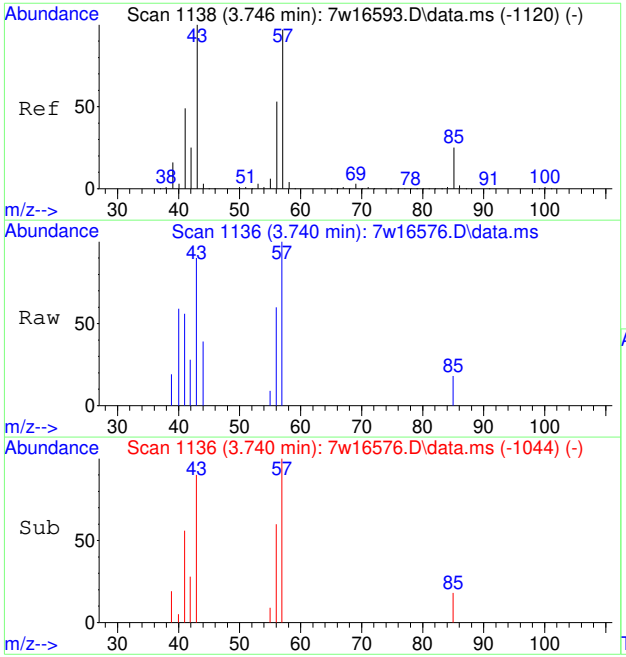


#46
CHLOROFORM
Concen: 0.04 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1053

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	44.6	17.9	33.3#

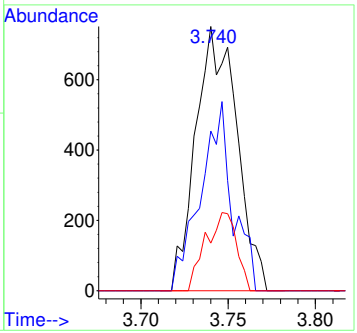


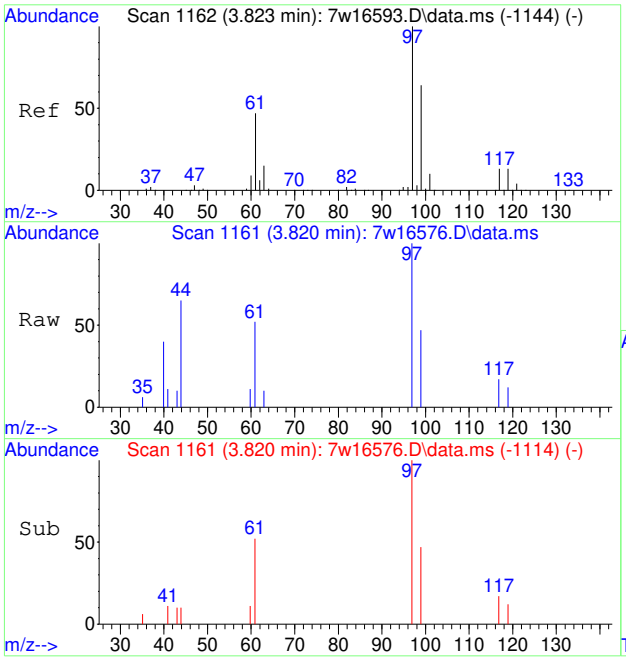


#47
2,4-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 1228

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	22.1	24.1	44.7#

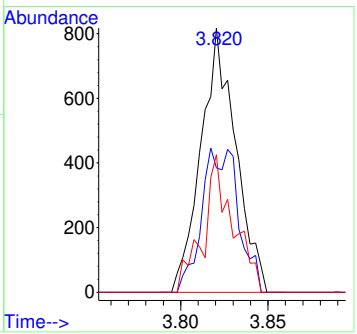


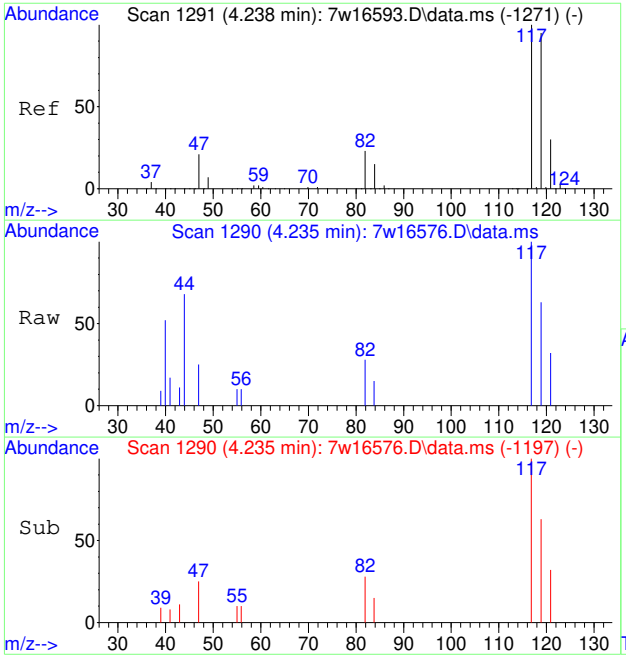


#48
1,1,1-TRICHLOROETHANE
Concen: 0.04 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 97 Resp: 1132

Ion	Ratio	Lower	Upper
97	100		
99	57.4	44.9	83.5
61	44.7	28.6	53.0

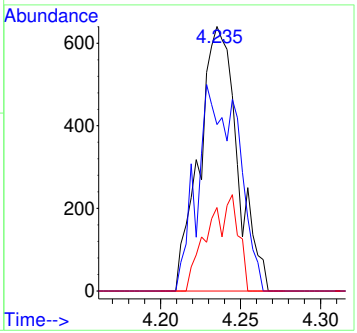


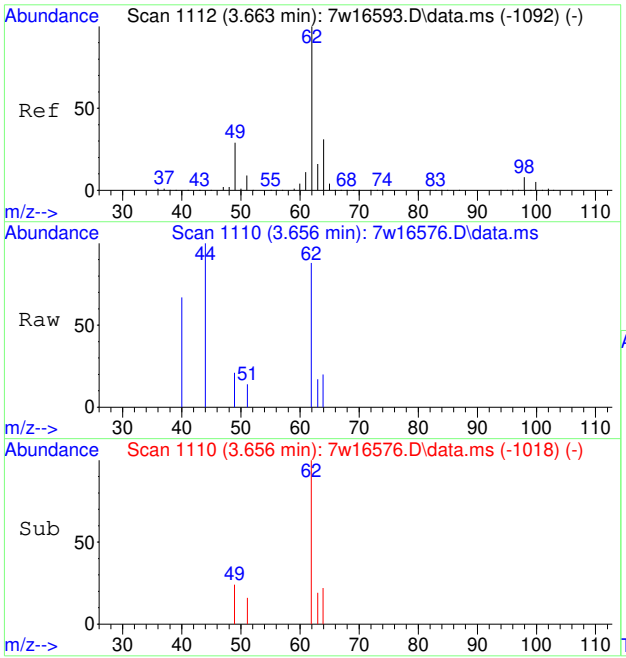


#49
CARBON TETRACHLORIDE
Concen: 0.04 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 1061

Ion	Ratio	Lower	Upper
117	100		
119	83.8	68.8	127.8
121	29.1	22.2	41.2

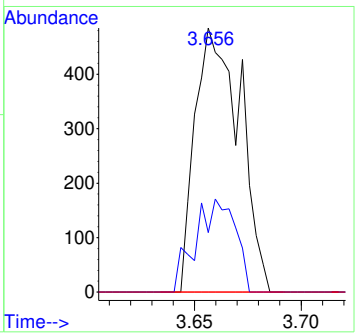


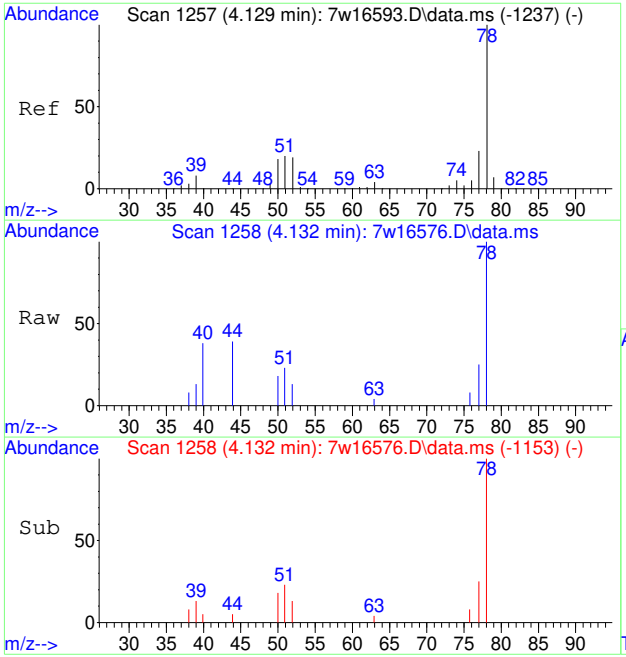


#50
1,2-DICHLOROETHANE
Concen: 0.03 PPBV
RT: 3.656 min Scan# 1110
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 62 Resp: 712

Ion	Ratio	Lower	Upper
62	100		
64	31.3	22.5	41.7
98	0.0	6.8	12.6#

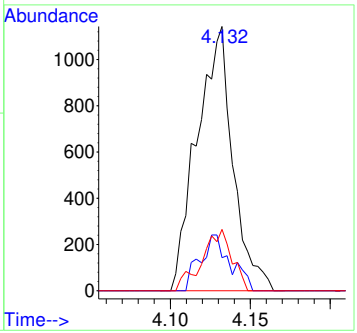


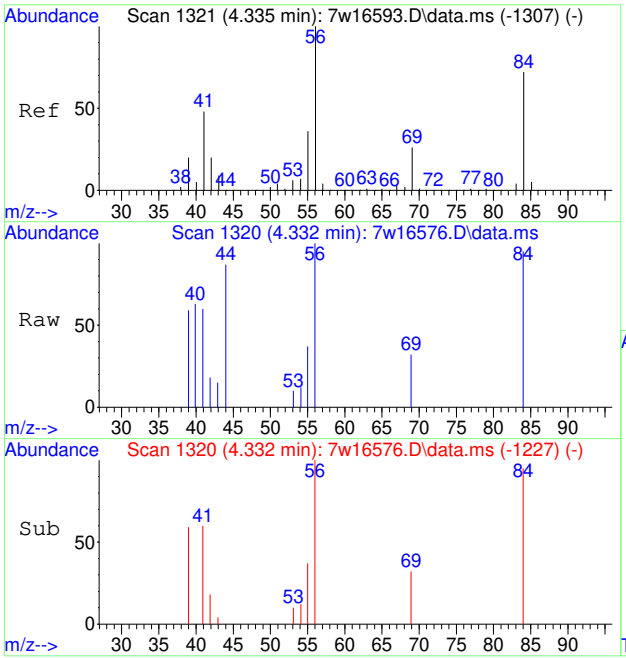


#51
BENZENE
Concen: 0.05 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 78 Resp: 1781

Ion	Ratio	Lower	Upper
78	100		
52	17.9	0.0	44.6
51	19.4	0.0	47.3

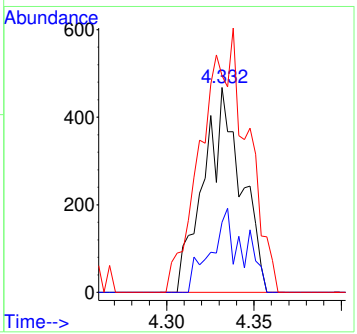


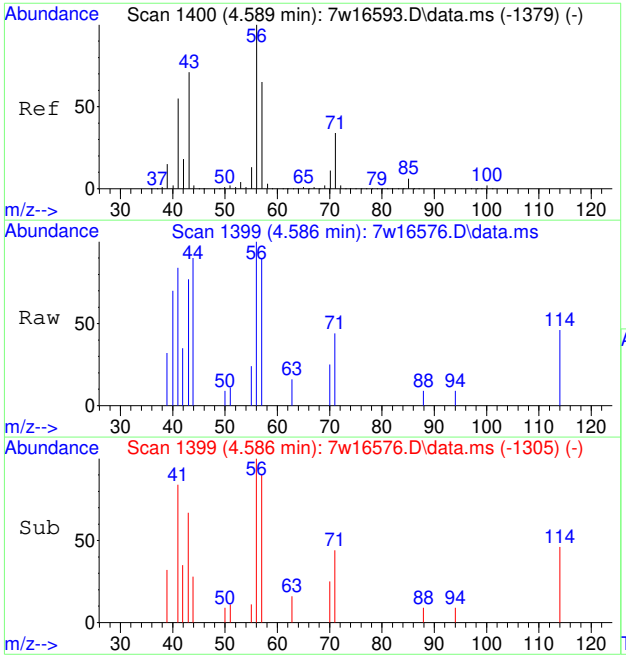


#53
CYCLOHEXANE
Concen: 0.04 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 84 Resp: 700

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	156.6	70.2	130.4#

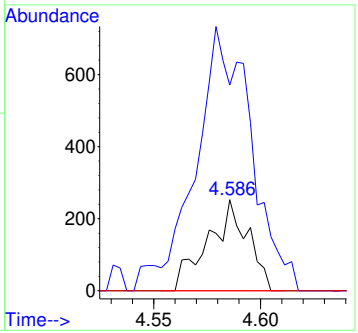


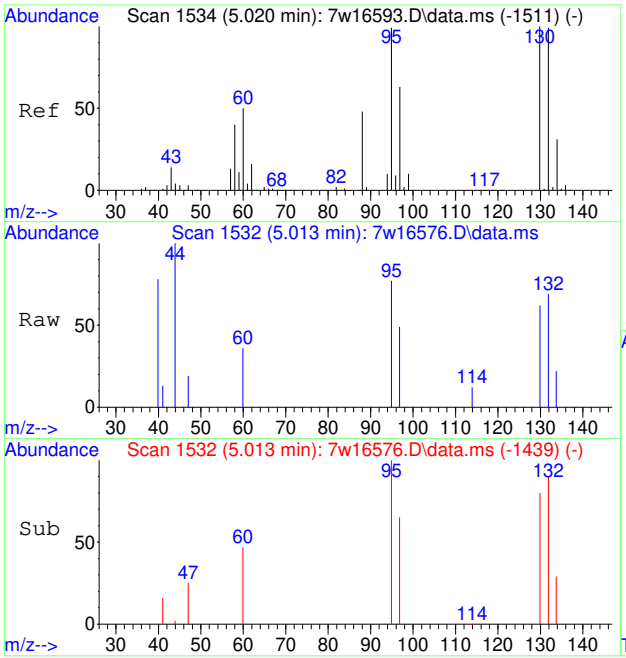


#54
2,3-DIMETHYLPENTANE
Concen: 0.04 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 71 Resp: 330

Ion	Ratio	Lower	Upper
71	100		
56	412.7	171.4	318.4#
85	0.0	12.6	23.4#

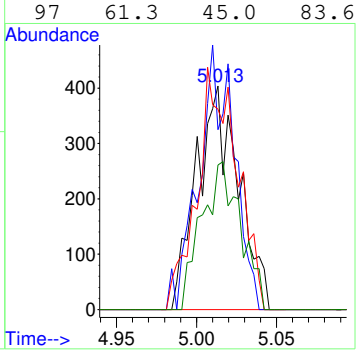


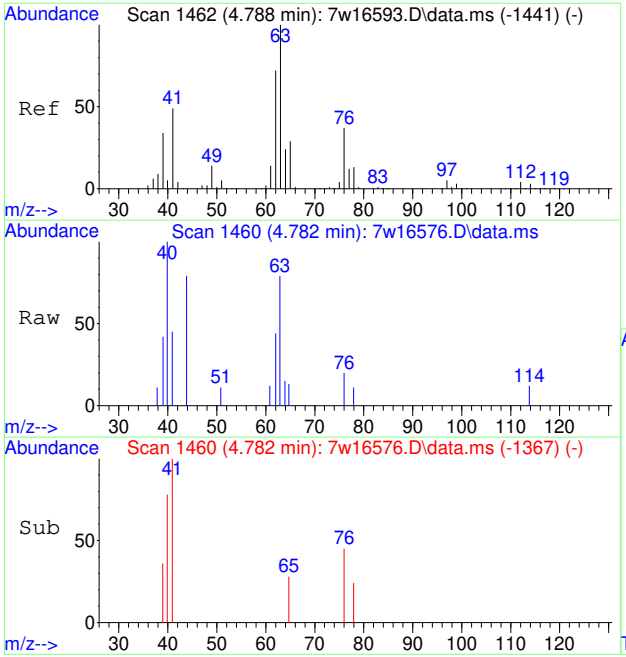


#55
TRICHLOROETHENE
Concen: 0.04 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 95 Resp: 741

Ion	Ratio	Lower	Upper
95	100		
130	98.4	85.9	159.5
132	101.9	79.4	147.4
97	61.3	45.0	83.6

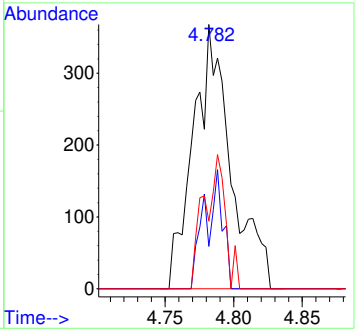


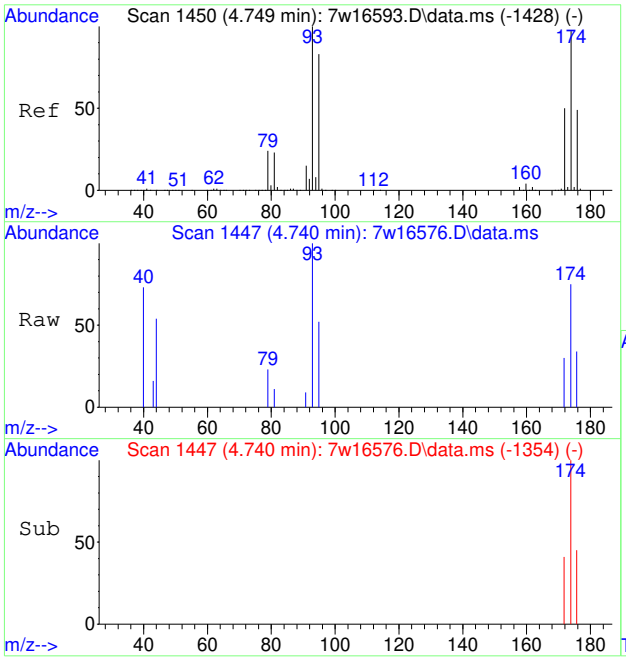


#56
1,2-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 63 Resp: 703

Ion	Ratio	Lower	Upper
63	100		
65	21.5	22.6	42.0#
76	28.7	31.8	59.0#

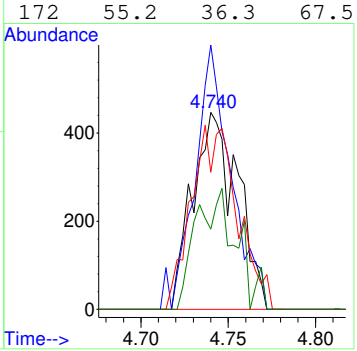


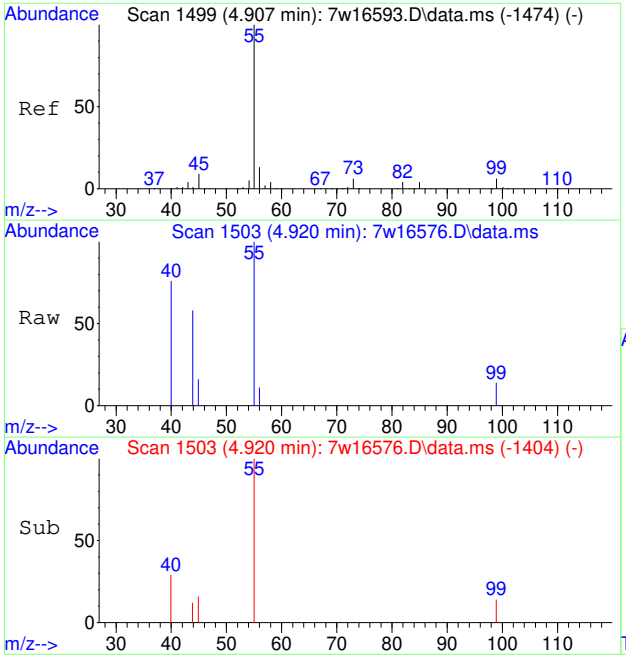


#57
DIBROMOMETHANE
Concen: 0.05 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:174 Resp: 802

Ion	Ratio	Lower	Upper
174	100		
93	108.0	67.3	125.1
95	95.5	56.8	105.6
172	55.2	36.3	67.5

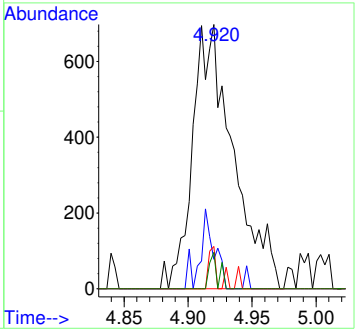


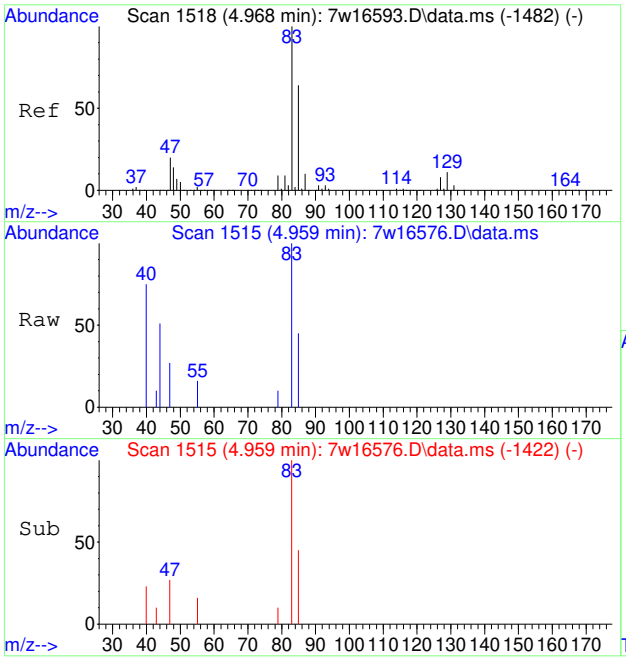


#58
ETHYL ACRYLATE
Concen: 0.04 PPBV
RT: 4.920 min Scan# 1503
Delta R.T. 0.020 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 55 Resp: 1547

Ion	Ratio	Lower	Upper
55	100		
56	10.5	7.9	14.7
45	4.1	6.6	12.2#
99	0.0	6.2	11.6#

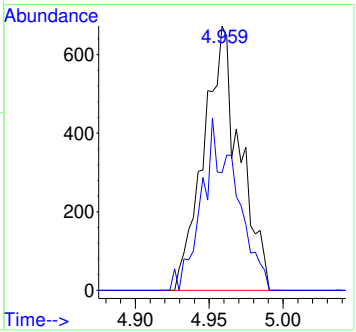


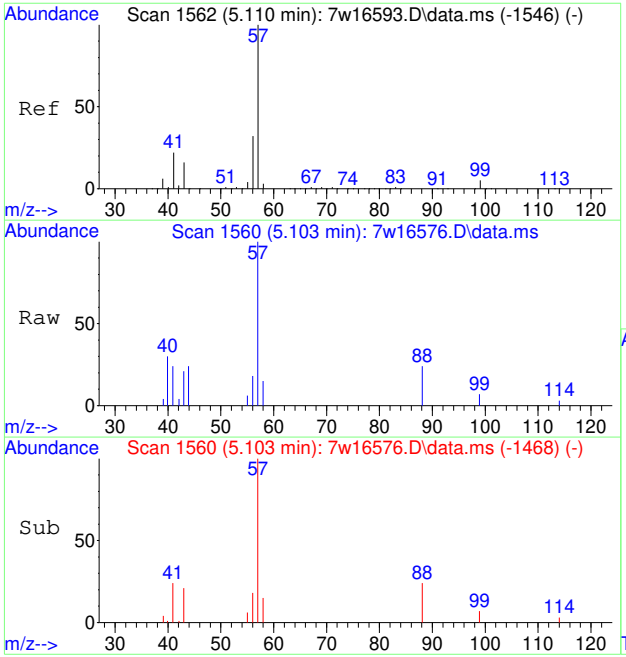


#59
BROMODICHLOROMETHANE
Concen: 0.04 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1145

Ion	Ratio	Lower	Upper
83	100		
85	62.1	44.9	83.5

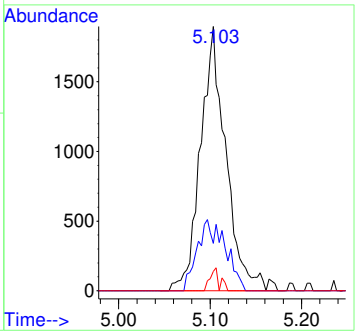


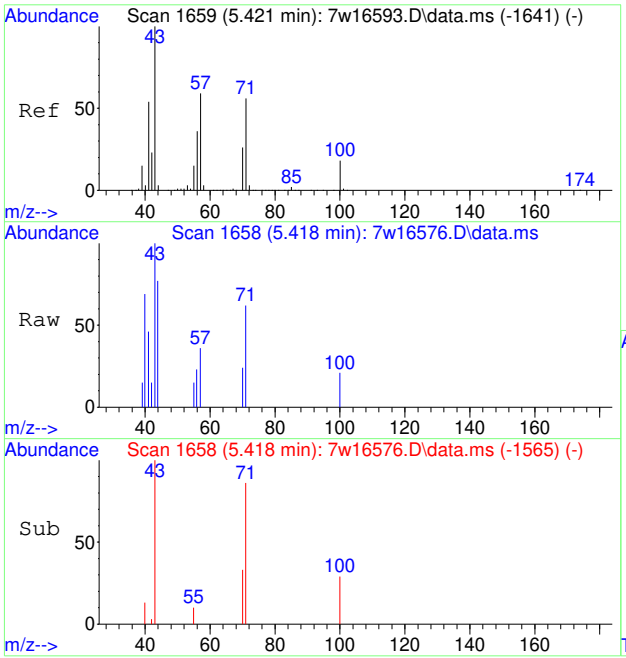


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 57 Resp: 3683

Ion	Ratio	Lower	Upper
57	100		
56	29.4	24.4	45.2
99	3.2	5.2	9.6#

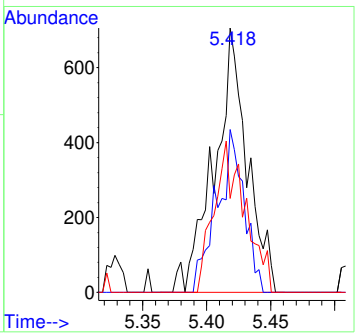


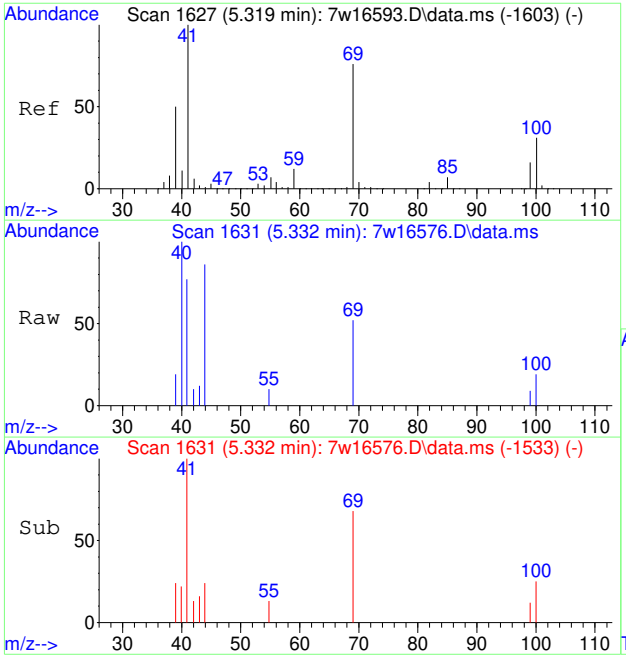


#62
HEPTANE
Concen: 0.05 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1262

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	54.4	37.2	69.0

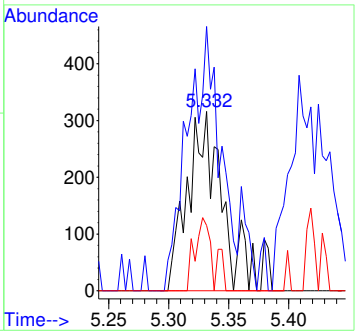


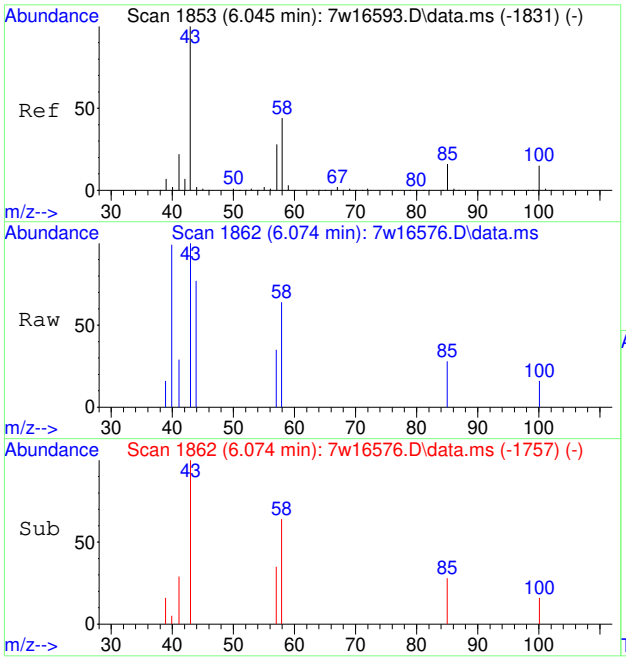


#63
METHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 5.332 min Scan# 1631
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 659

Ion	Ratio	Lower	Upper
69	100		
41	150.2	84.3	156.5
100	20.9	30.8	57.2#

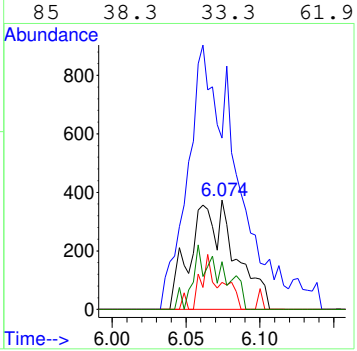


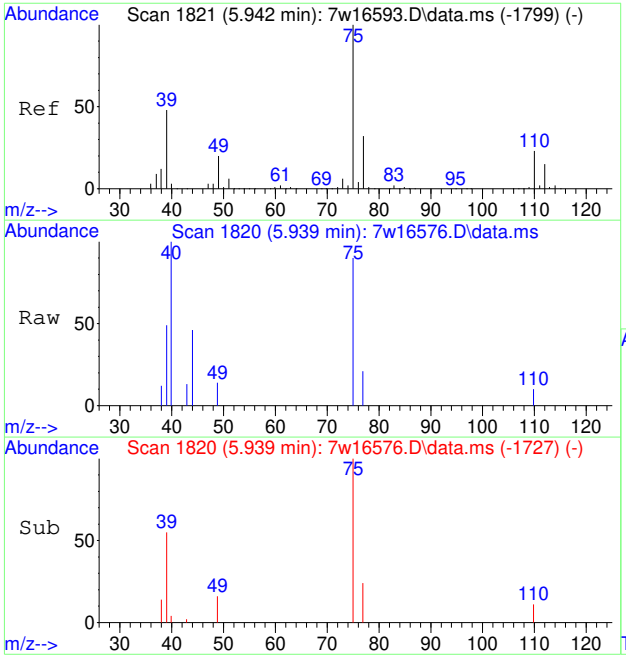


#64
METHYL ISOBUTYL KETONE
Concen: 0.05 PPBV
RT: 6.074 min Scan# 1862
Delta R.T. 0.039 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 776

Ion	Ratio	Lower	Upper
58	100		
43	276.2	193.8	360.0
100	23.3	32.8	60.8#
85	38.3	33.3	61.9

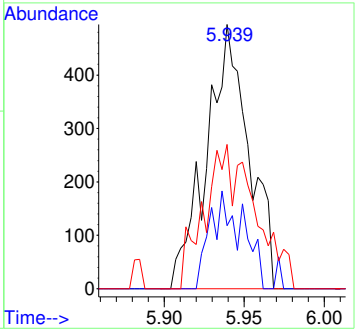


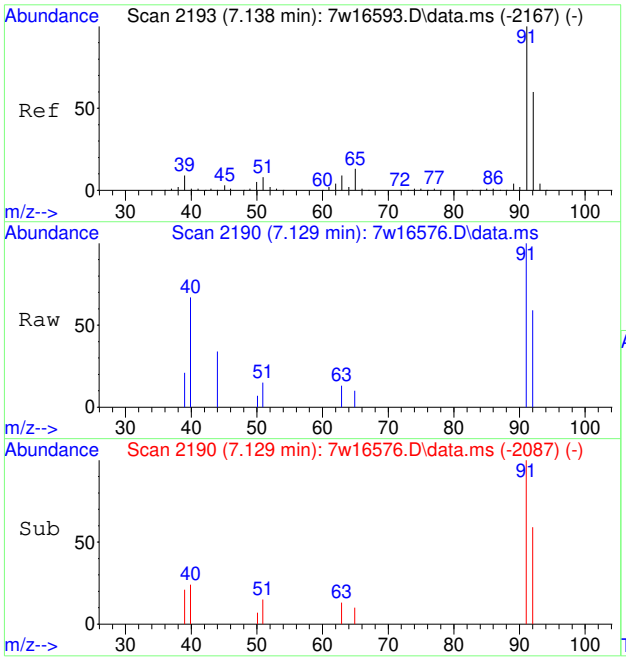


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 908

Ion	Ratio	Lower	Upper
75	100		
77	28.3	22.0	40.8
39	65.5	38.5	71.5

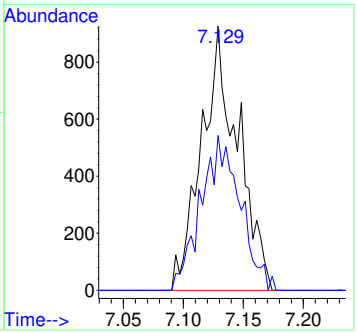


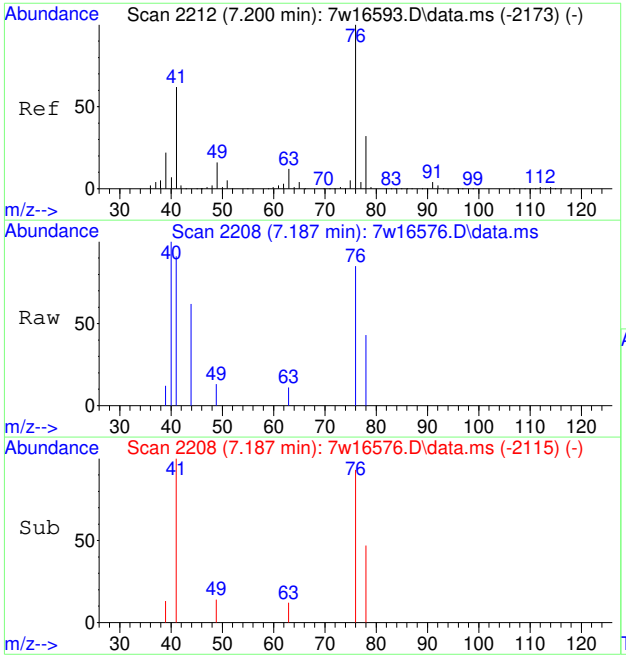


#66
TOLUENE
Concen: 0.04 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1961

Ion	Ratio	Lower	Upper
91	100		
92	62.6	28.1	88.1

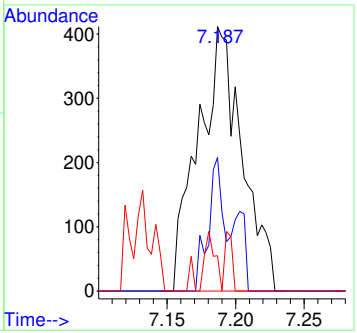


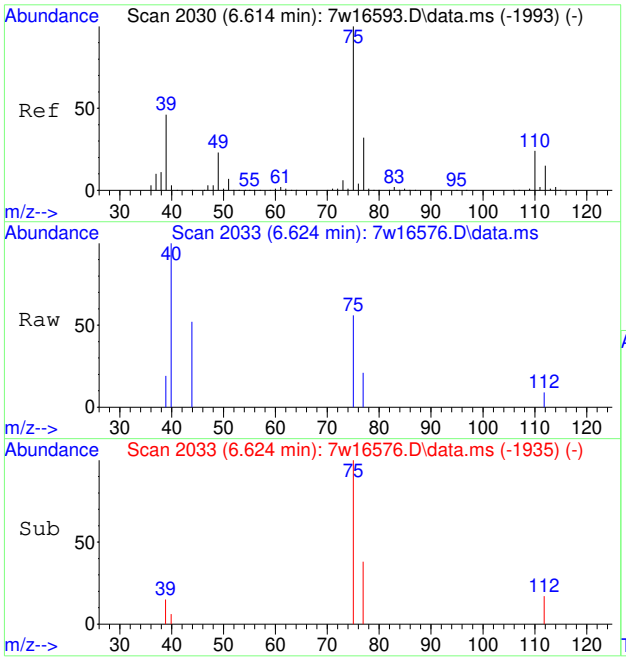


#67
1,3-DICHLOROPROPANE
Concen: 0.04 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 76 Resp: 917

Ion	Ratio	Lower	Upper
76	100		
78	26.3	22.1	41.1
63	6.5	8.0	14.8#

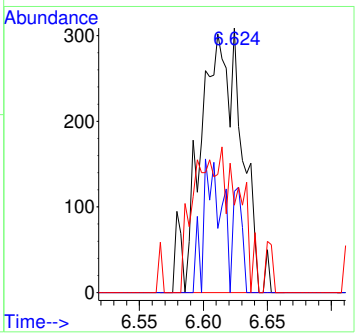


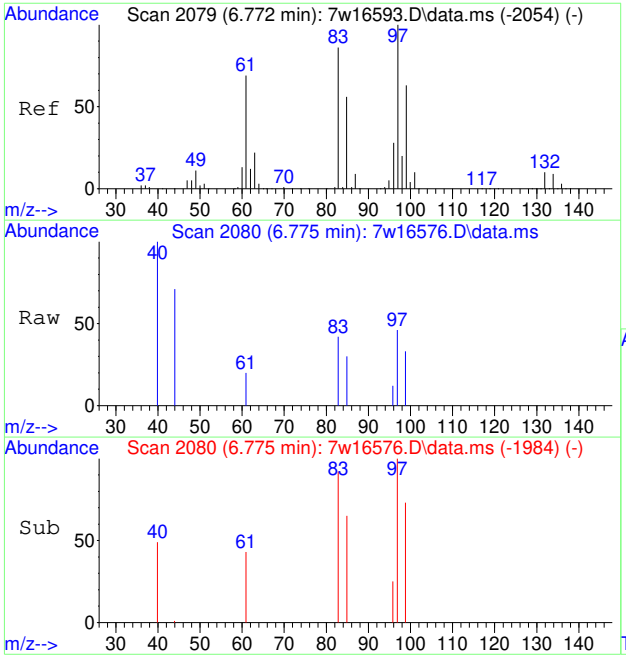


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.03 PPBV
RT: 6.624 min Scan# 2033
Delta R.T. 0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 685

Ion	Ratio	Lower	Upper
75	100		
77	0.0	22.5	41.7#
39	59.0	37.2	69.0

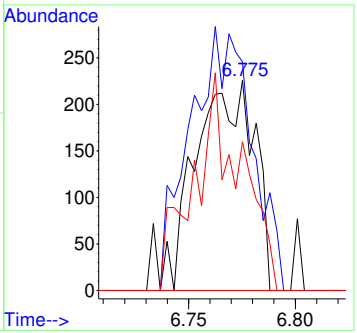


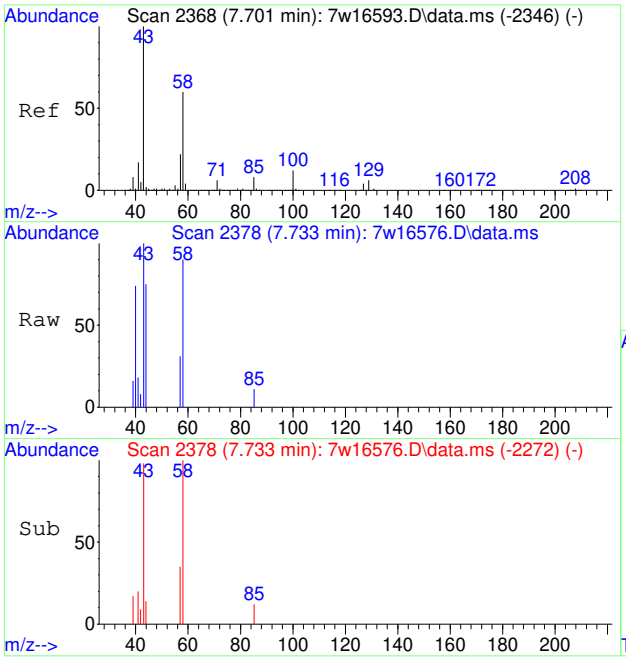


#69
1,1,2-TRICHLOROETHANE
Concen: 0.03 PPBV
RT: 6.775 min Scan# 2080
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 432

Ion	Ratio	Lower	Upper
83	100		
97	131.5	86.7	160.9
85	82.9	45.5	84.5

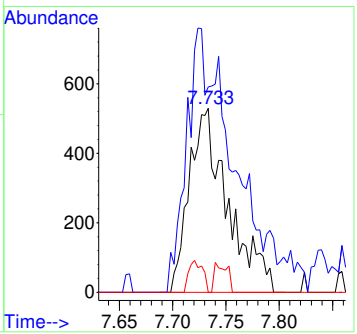


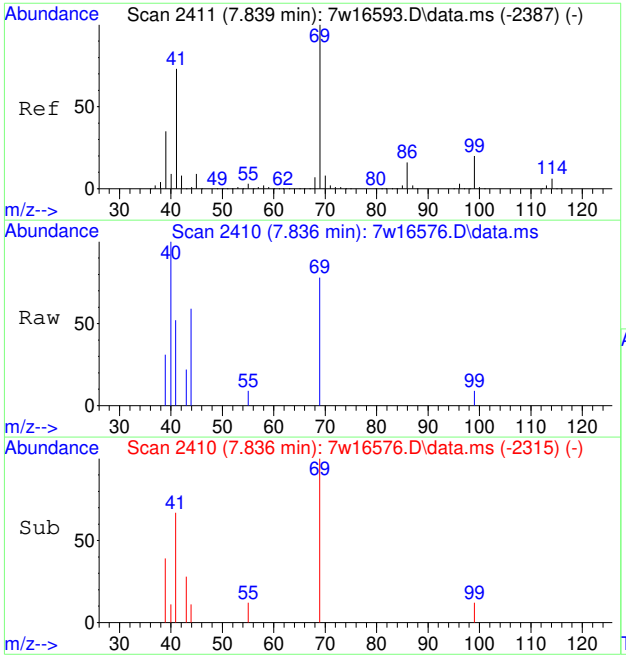


#70
2-HEXANONE
Concen: 0.06 PPBV
RT: 7.733 min Scan# 2378
Delta R.T. 0.042 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 58 Resp: 1334

Ion	Ratio	Lower	Upper
58	100		
43	0.0	141.7	263.3#
100	5.2	18.9	35.1#

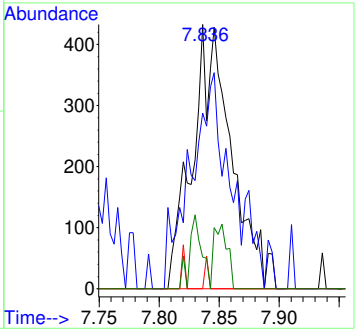


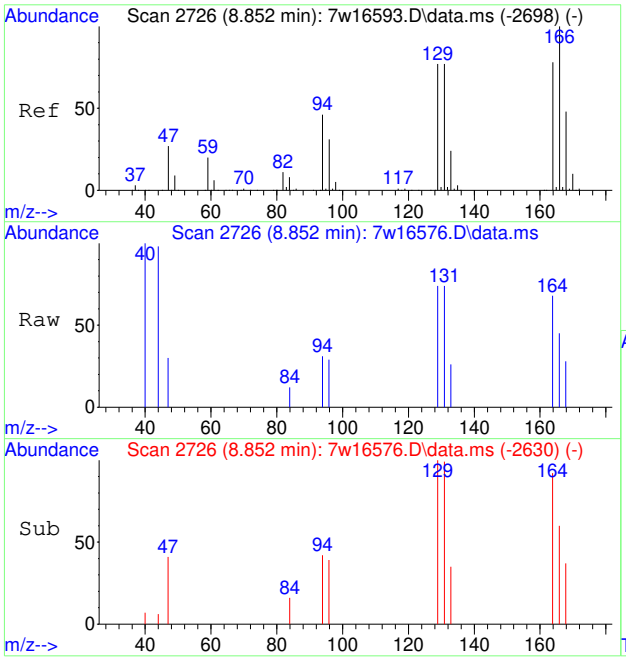


#71
ETHYL METHACRYLATE
Concen: 0.04 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 69 Resp: 991

Ion	Ratio	Lower	Upper
69	100		
41	0.0	49.3	91.6#
86	0.0	11.6	21.6#
99	8.7	13.4	24.8#

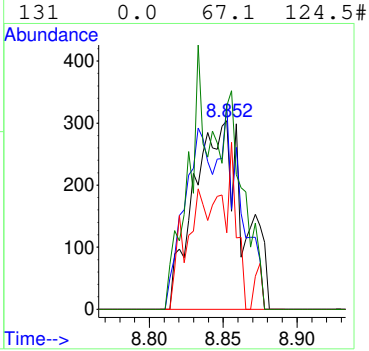


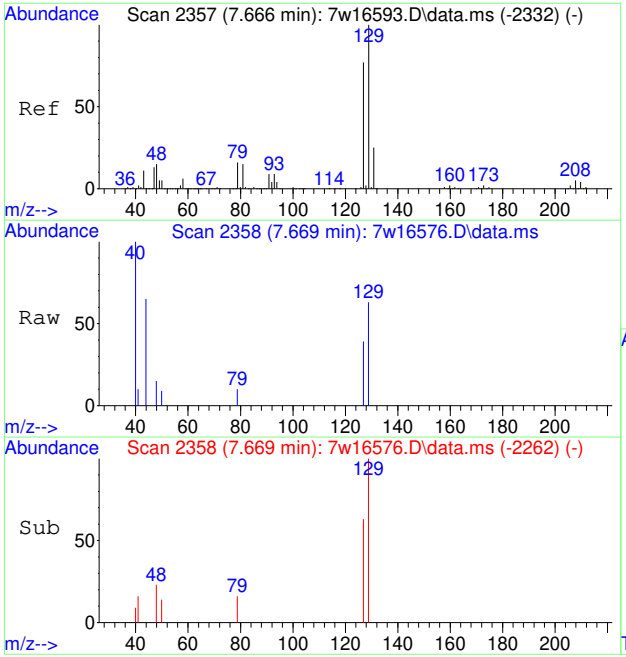


#72
TETRACHLOROETHENE
Concen: 0.04 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:164 Resp: 707

Ion	Ratio	Lower	Upper
164	100		
129	101.7	69.7	129.5
168	63.5	43.4	80.6
131	0.0	67.1	124.5#

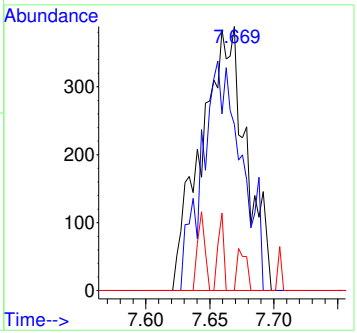


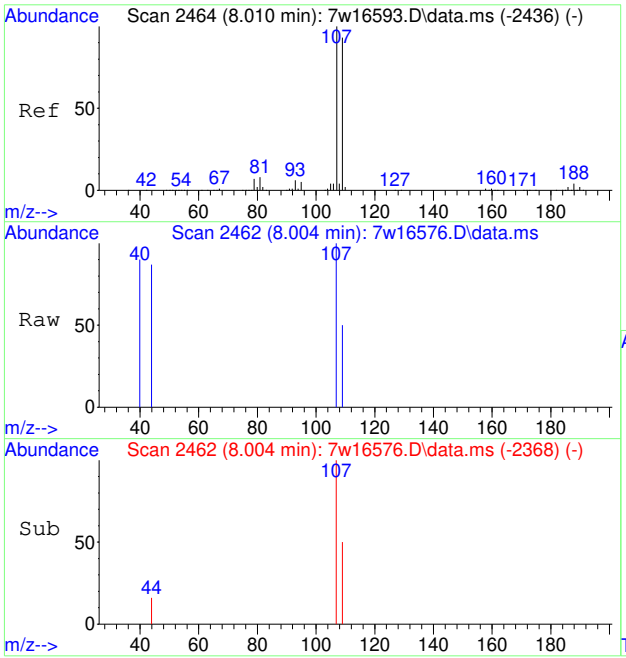


#73
DIBROMOCHLOROMETHANE
Concen: 0.03 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:129 Resp: 938

Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.0	98.4#
131	0.0	16.9	31.3#

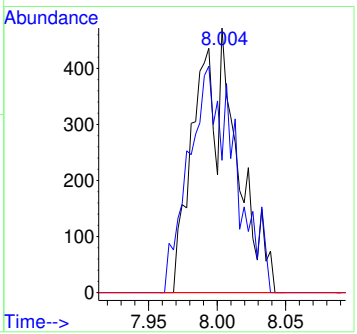


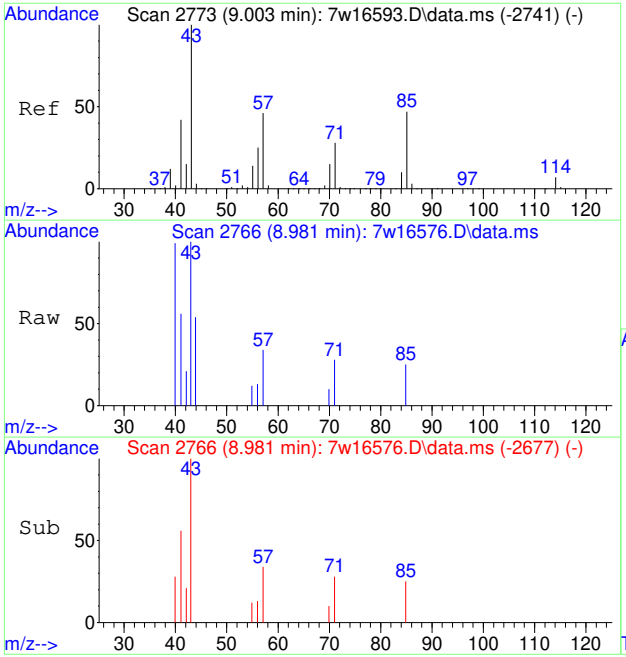


#74
1,2-DIBROMOETHANE
Concen: 0.04 PPBV
RT: 8.004 min Scan# 2462
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:107 Resp: 998

Ion	Ratio	Lower	Upper
107	100		
109	95.5	65.7	122.1
188	0.0	2.4	4.4#

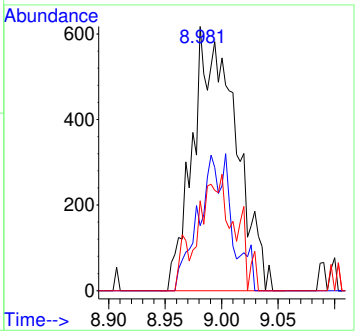


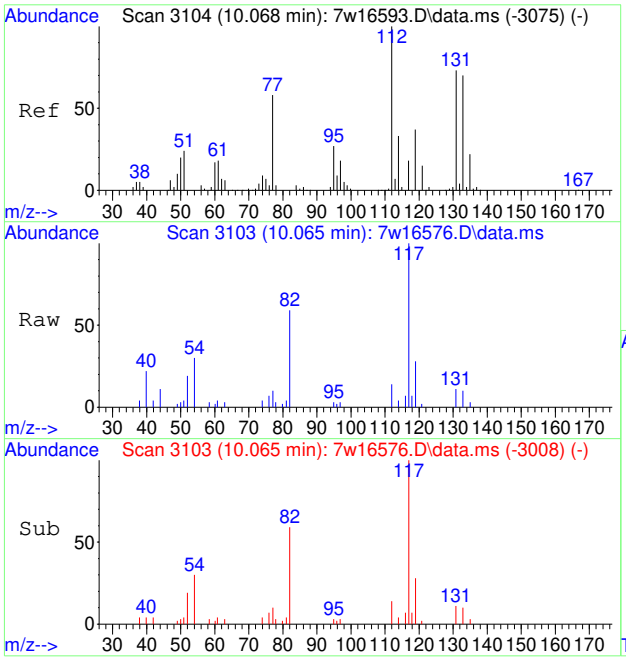


#75
OCTANE
Concen: 0.04 PPBV
RT: 8.981 min Scan# 2766
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1632

Ion	Ratio	Lower	Upper
43	100		
85	0.0	36.5	67.9#
57	0.0	27.6	51.2#

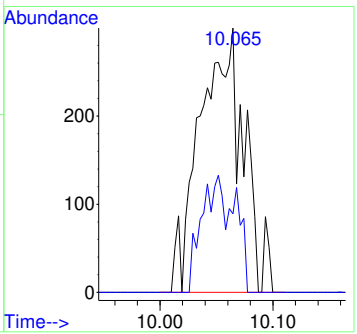


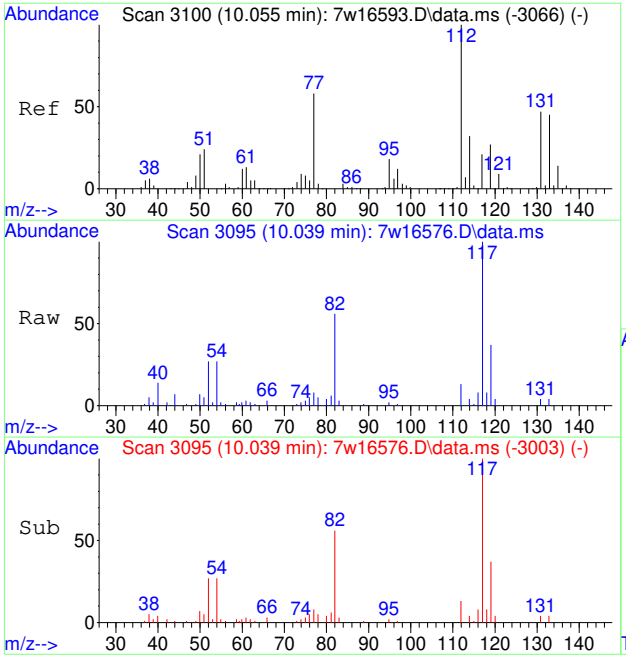


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 10.065 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:131 Resp: 804

Ion	Ratio	Lower	Upper
131	100		
95	33.6	23.7	43.9

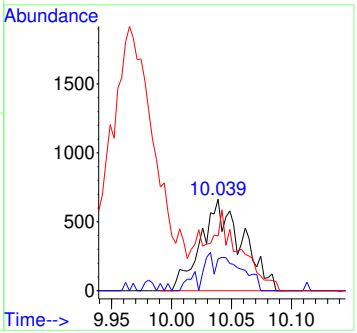


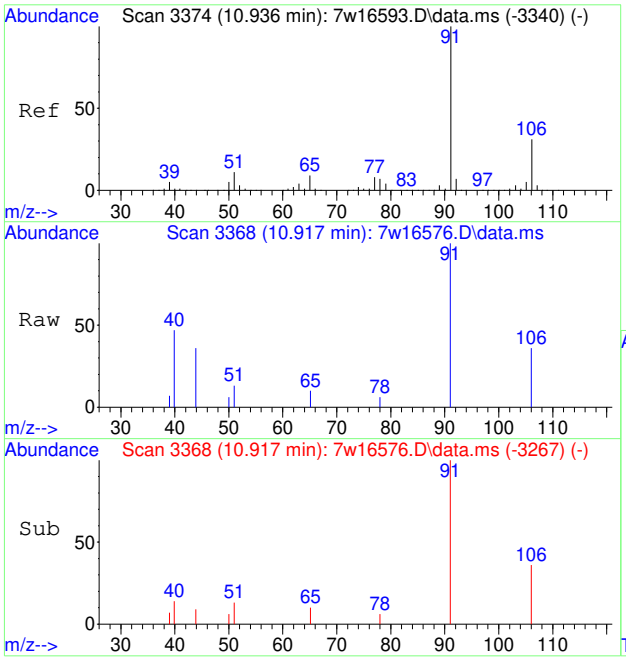


#78
CHLOROBENZENE
Concen: 0.04 PPBV
RT: 10.039 min Scan# 3095
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:112 Resp: 1584

Ion	Ratio	Lower	Upper
112	100		
114	37.2	22.9	42.5
77	74.4	34.4	63.8#

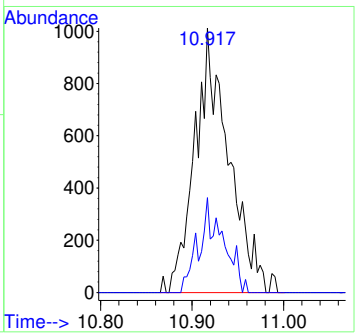


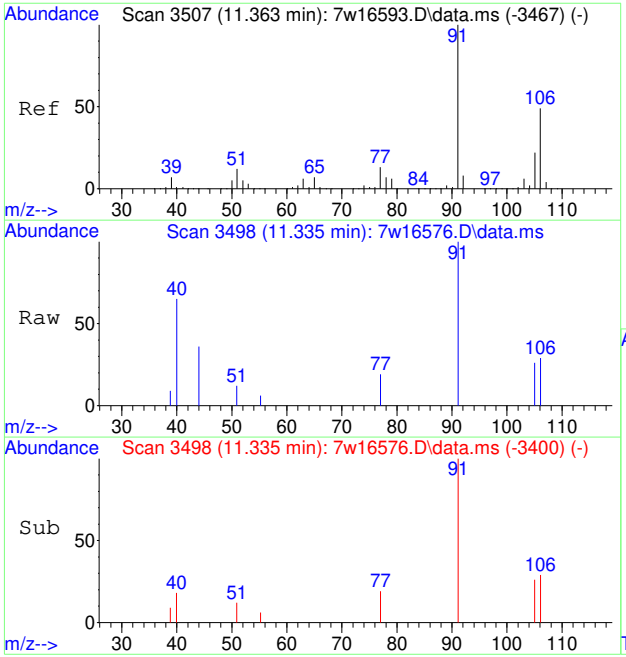


#79
ETHYLBENZENE
Concen: 0.04 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2610

Ion	Ratio	Lower	Upper
91	100		
106	25.6	2.8	62.8

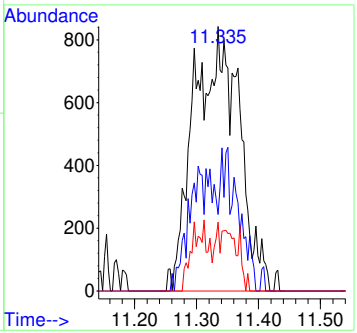


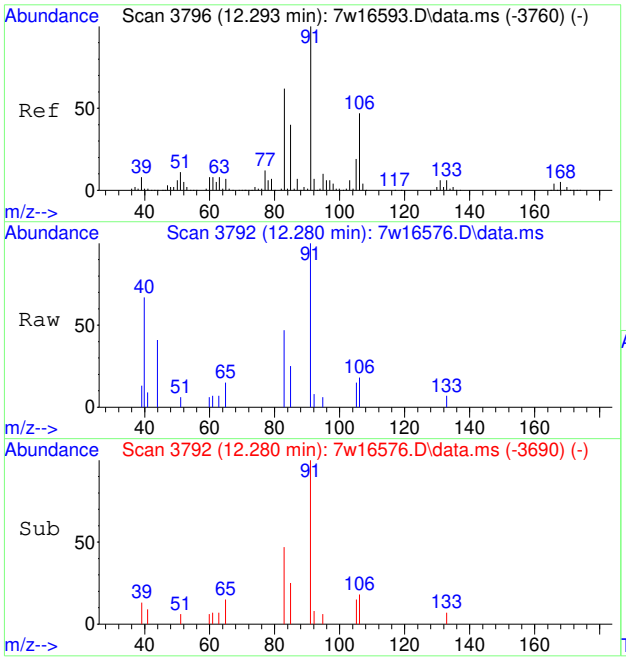


#80
M,P-XYLENE
Concen: 0.08 PPBV
RT: 11.335 min Scan# 3498
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 4291

Ion	Ratio	Lower	Upper
91	100		
106	22.1	0.0	58.7
105	11.4	0.0	43.2

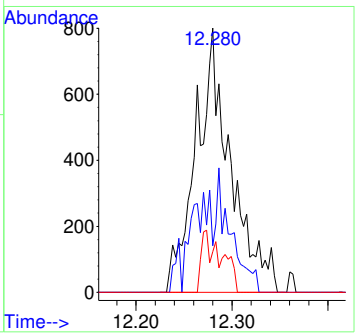


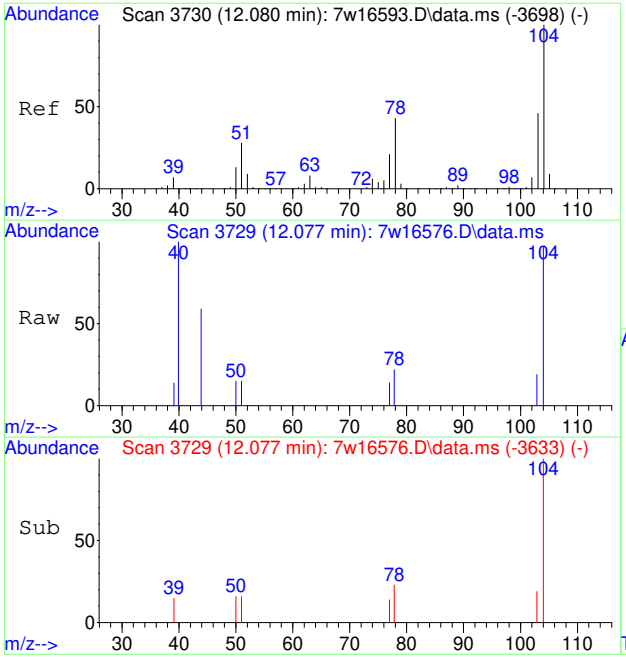


#81
O-XYLENE
Concen: 0.04 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 2009

Ion	Ratio	Lower	Upper
91	100		
106	17.6	34.1	63.3#
105	15.4	14.6	27.2

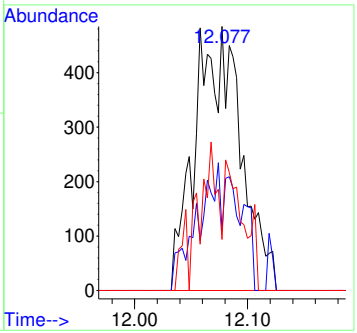


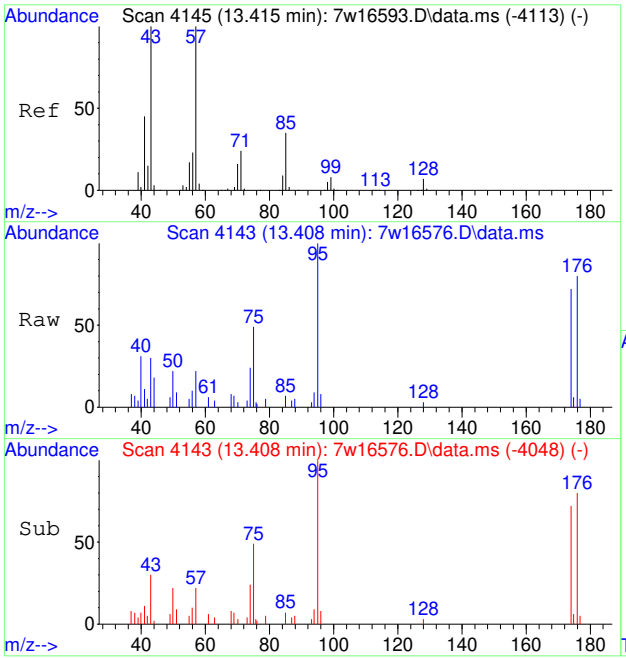


#82
STYRENE
Concen: 0.04 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:104 Resp: 1372

Ion	Ratio	Lower	Upper
104	100		
78	43.2	25.3	46.9
103	46.0	33.2	61.7

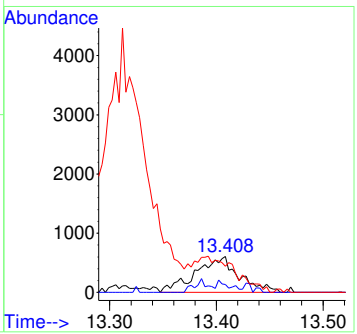


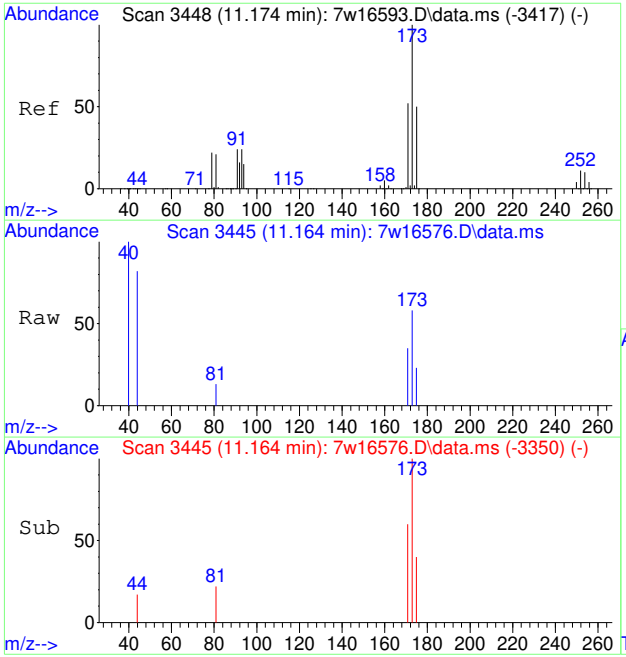


#83
NONANE
Concen: 0.04 PPBV
RT: 13.408 min Scan# 4143
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 43 Resp: 1708

Ion	Ratio	Lower	Upper
43	100		
85	6.0	27.6	51.2#
57	0.0	56.4	104.7#

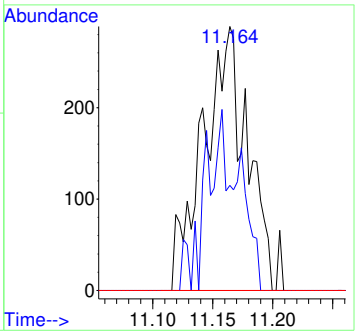


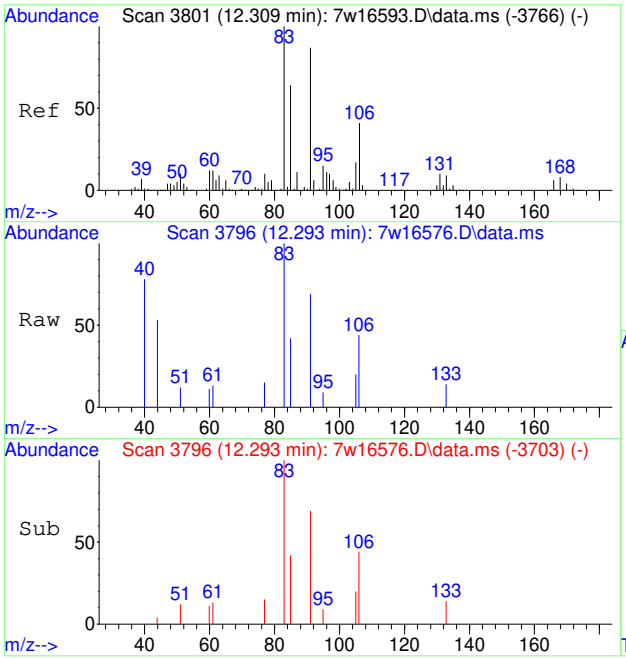


#84
BROMOFORM
Concen: 0.03 PPBV
RT: 11.164 min Scan# 3445
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:173 Resp: 746

Ion	Ratio	Lower	Upper
173	100		
175	50.7	33.0	61.4
254	0.0	5.9	10.9#

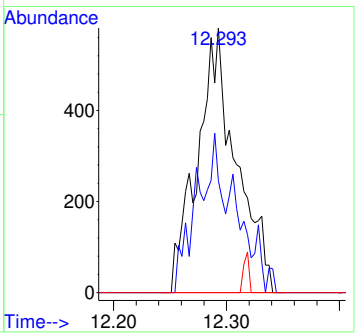


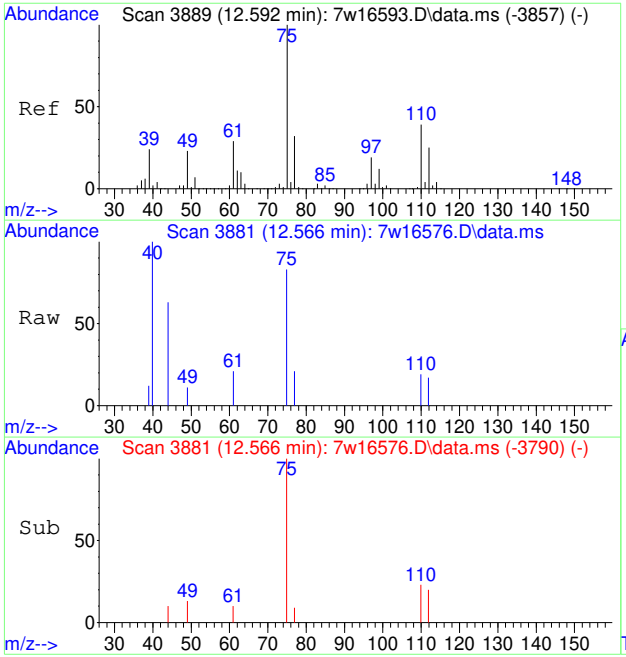


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.04 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 83 Resp: 1386

Ion	Ratio	Lower	Upper
83	100		
85	59.8	44.6	82.8
131	0.0	8.0	14.8#

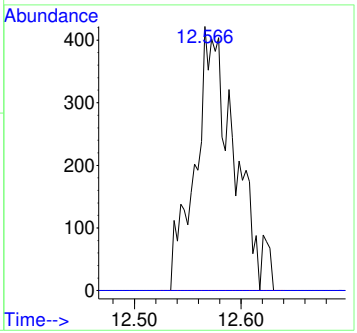


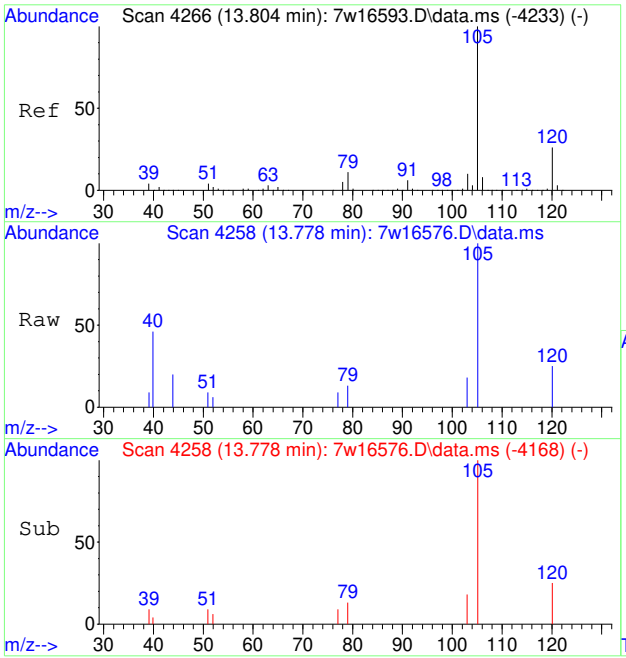


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.04 PPBV
RT: 12.566 min Scan# 3881
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 75 Resp: 1086

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

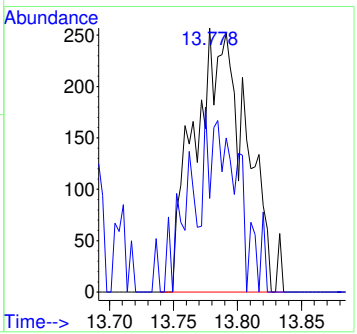


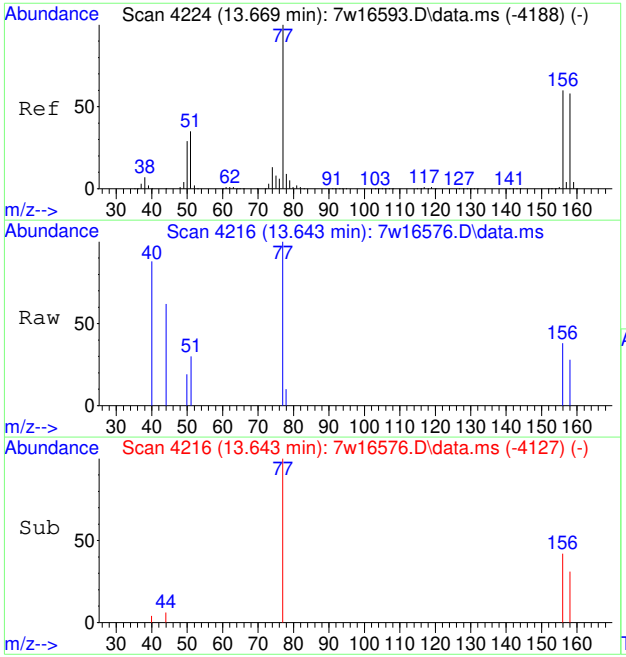


#88
ISOPROPYLBENZENE
Concen: 0.04 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 720

Ion	Ratio	Lower	Upper
120	100		
77	51.5	36.0	67.0

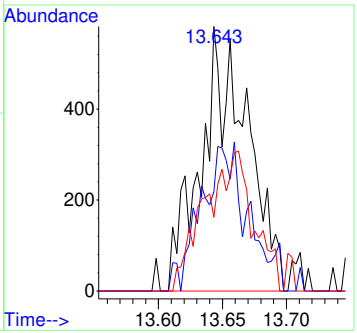


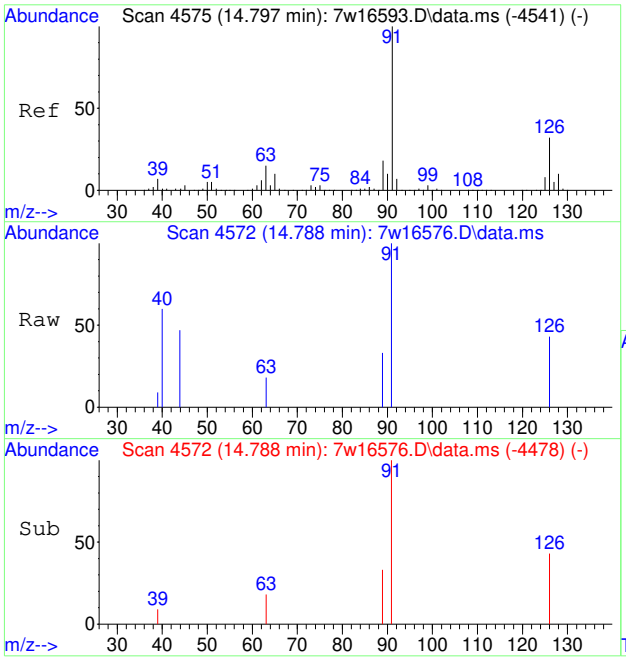


#89
BROMOBENZENE
Concen: 0.04 PPBV
RT: 13.643 min Scan# 4216
Delta R.T. -0.013 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 77 Resp: 1476

Ion	Ratio	Lower	Upper
77	100		
156	56.1	57.9	107.5#
158	57.3	55.7	103.5

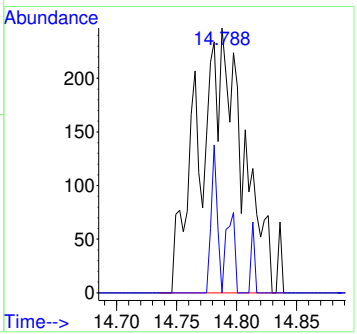


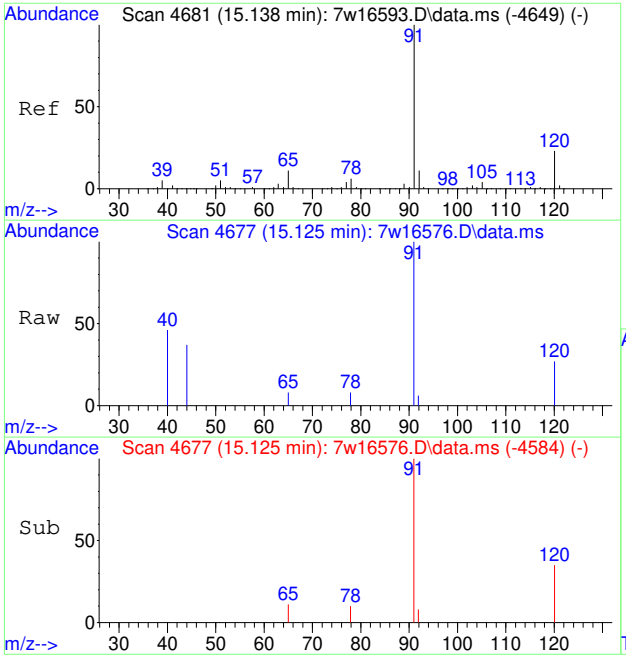


#90
2-CHLOROTOLUENE
Concen: 0.04 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:126 Resp: 652

Ion	Ratio	Lower	Upper
126	100		
128	13.3	22.7	42.1#

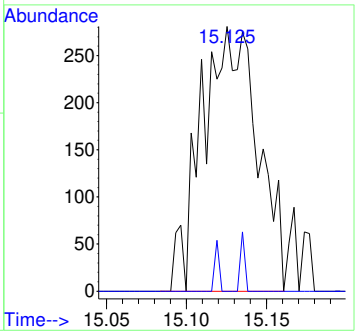


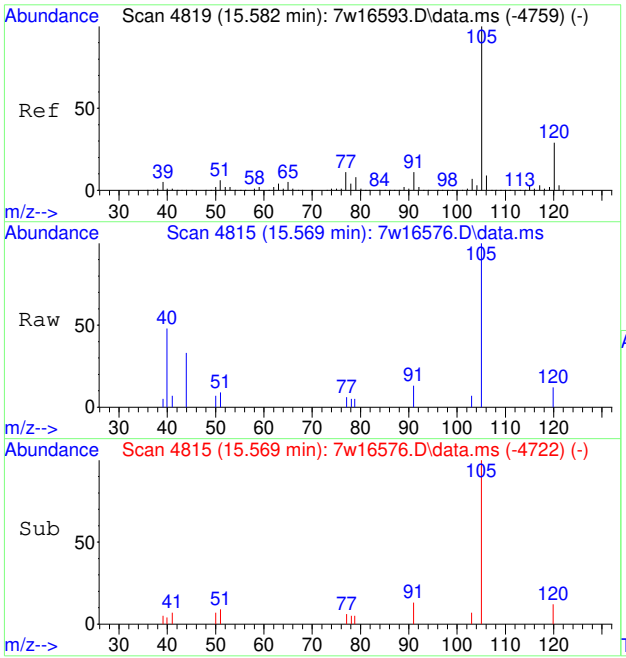


#91
N-PROPYLBENZENE
Concen: 0.03 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:120 Resp: 688

Ion	Ratio	Lower	Upper
120	100		
105	0.0	10.6	19.6#

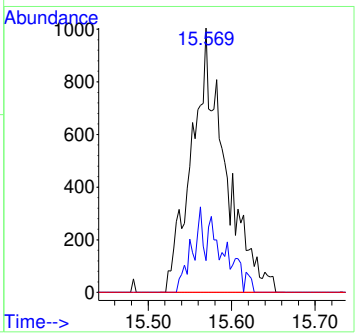


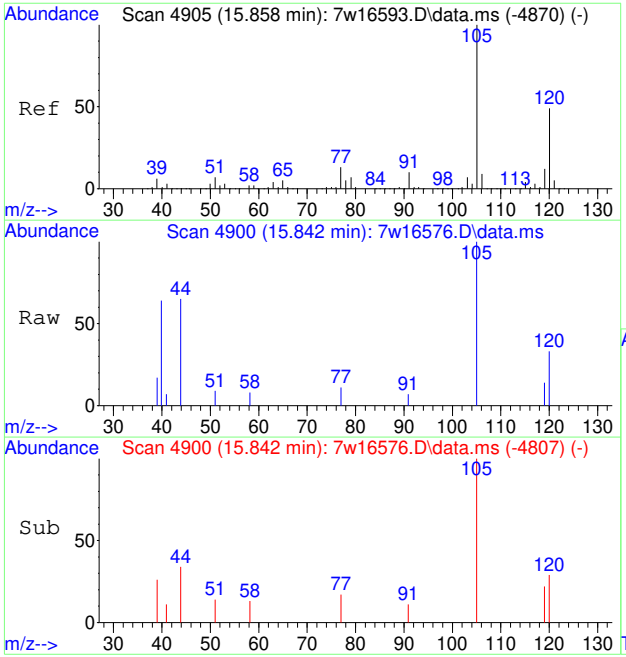


#92
4-ETHYLTOLUENE
Concen: 0.04 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2796

Ion	Ratio	Lower	Upper
105	100		
120	27.0	21.8	40.4
119	0.0	1.7	3.1#

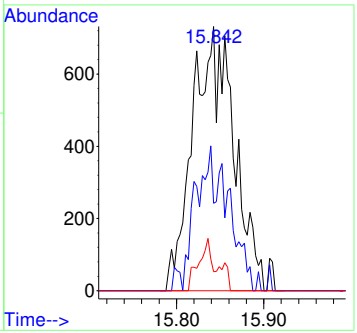


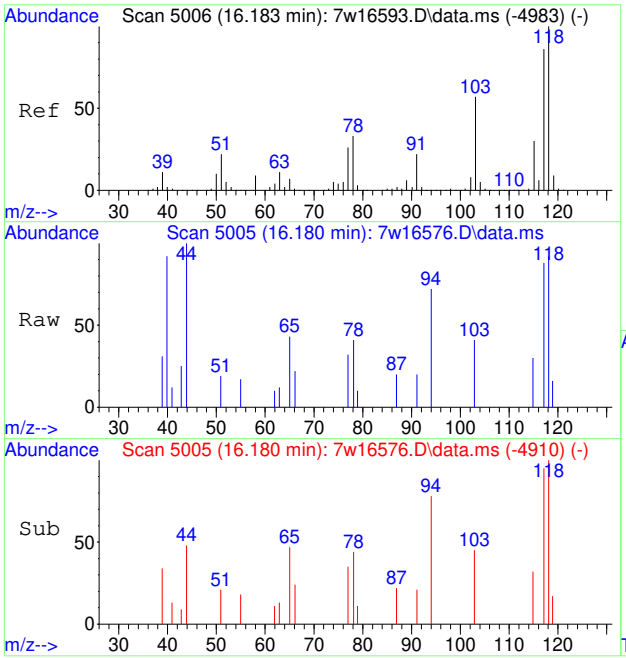


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2434

Ion	Ratio	Lower	Upper
105	100		
120	43.9	37.2	69.2
91	8.6	7.5	13.9

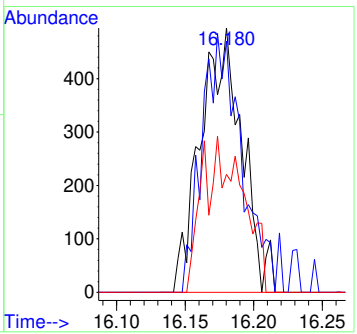


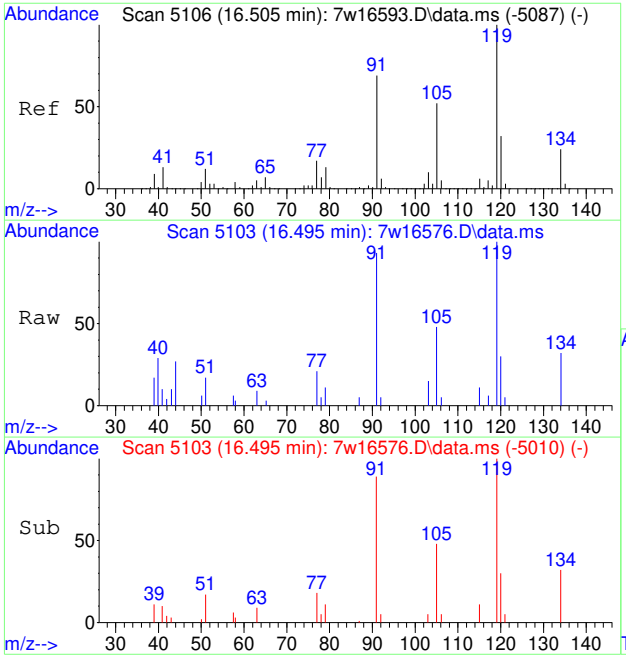


#94
ALPHA-METHYLSTYRENE
Concen: 0.03 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:118 Resp: 1042

Ion	Ratio	Lower	Upper
118	100		
117	94.9	59.9	111.3
103	57.4	36.2	67.2

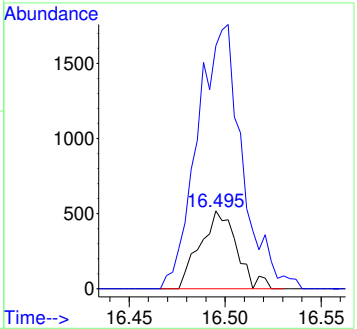


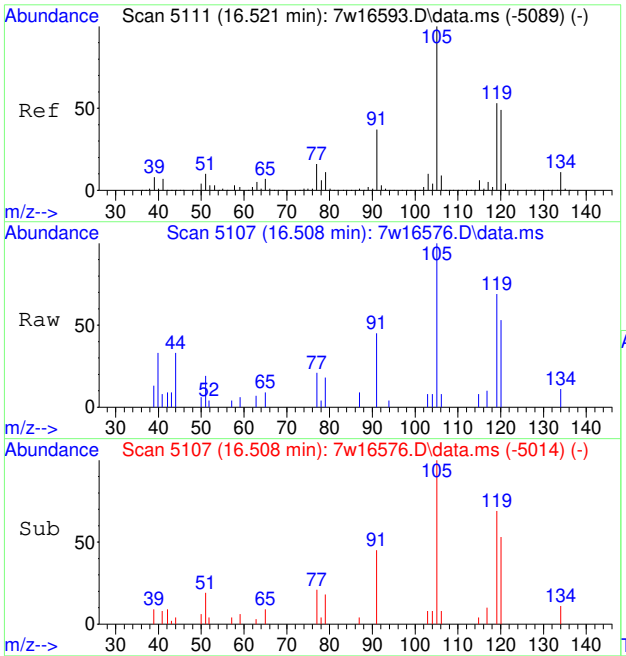


#95
TERT-BUTYLBENZENE
Concen: 0.05 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 685

Ion	Ratio	Lower	Upper
134	100		
119	417.1	307.9	571.7

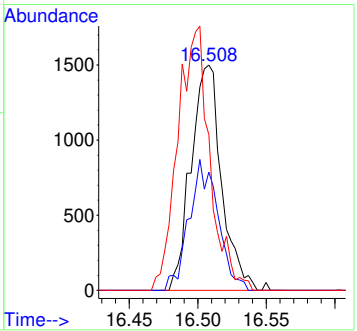


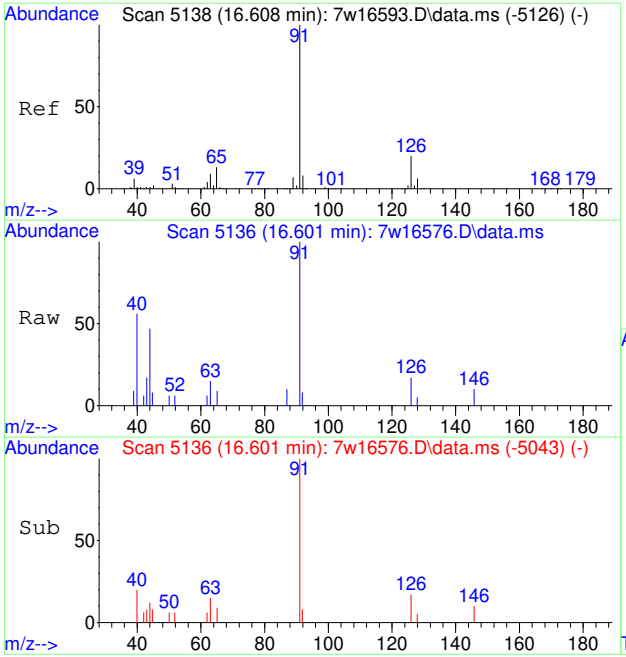


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2331

Ion	Ratio	Lower	Upper
105	100		
120	54.7	40.9	75.9
119	122.6	78.0	144.8

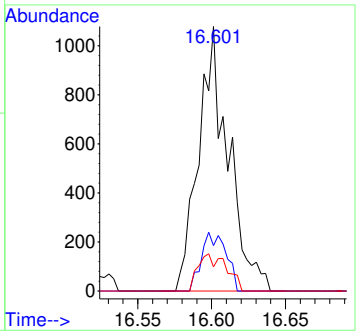


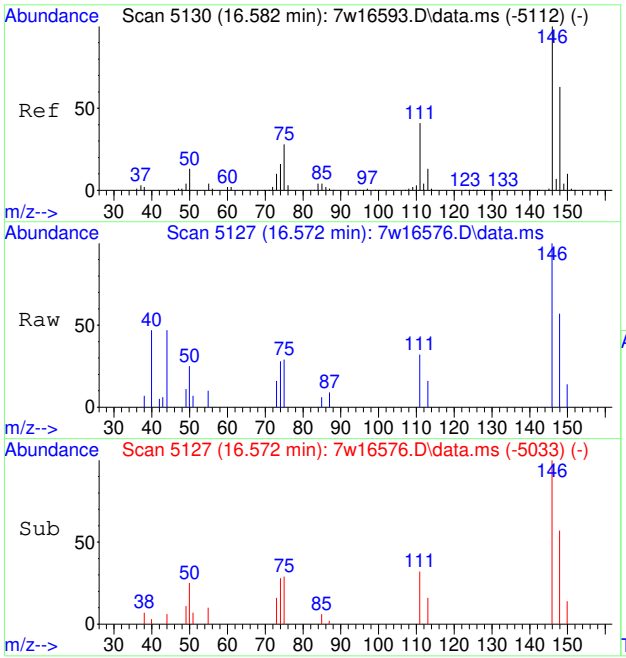


#97
BENZYL CHLORIDE
Concen: 0.03 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion: 91 Resp: 1503

Ion	Ratio	Lower	Upper
91	100		
126	18.2	17.2	32.0
65	13.4	7.3	13.7

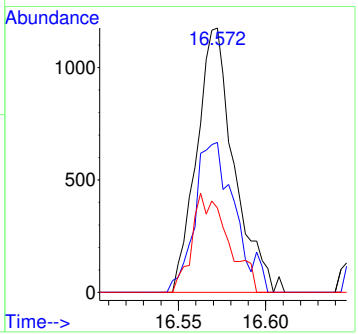


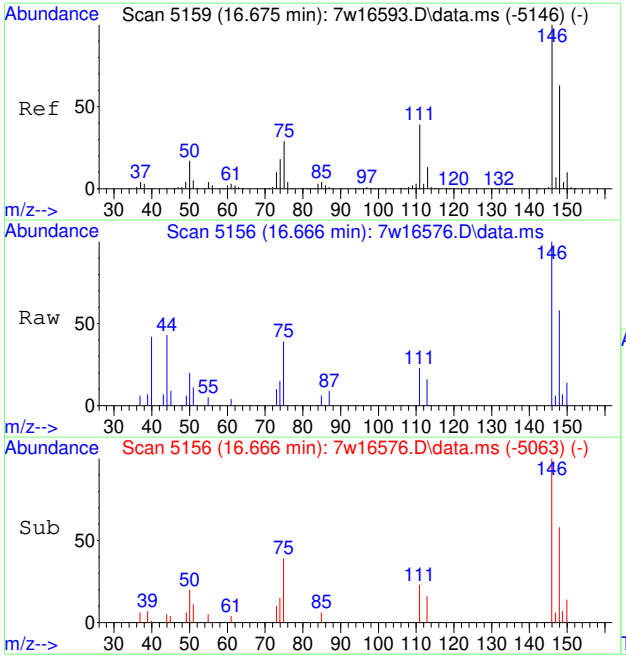


#98
M-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1758

Ion	Ratio	Lower	Upper
146	100		
148	60.6	44.2	82.2
111	35.9	25.4	47.2

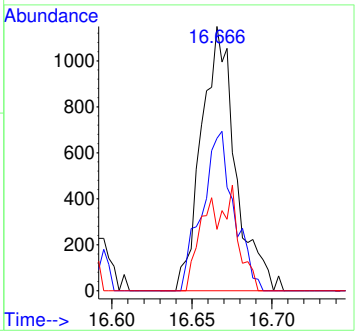


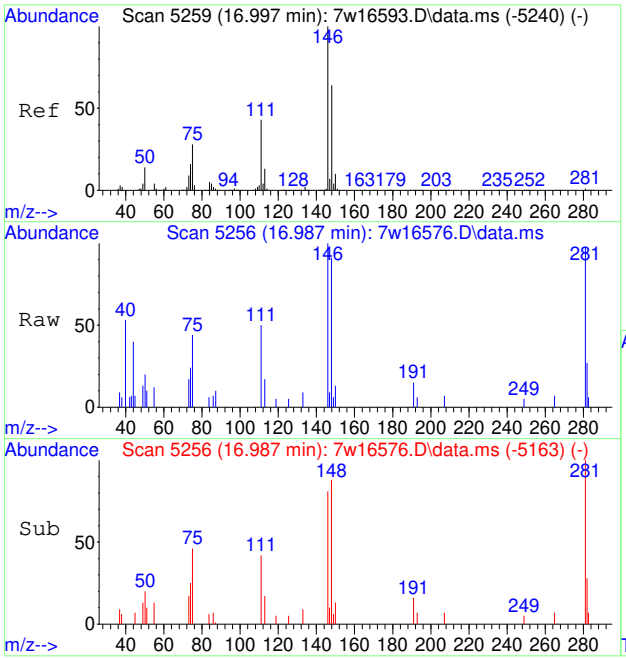


#99
P-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1701

Ion	Ratio	Lower	Upper
146	100		
148	56.6	44.7	82.9
111	37.6	24.8	46.1

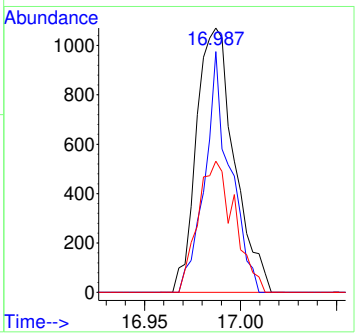


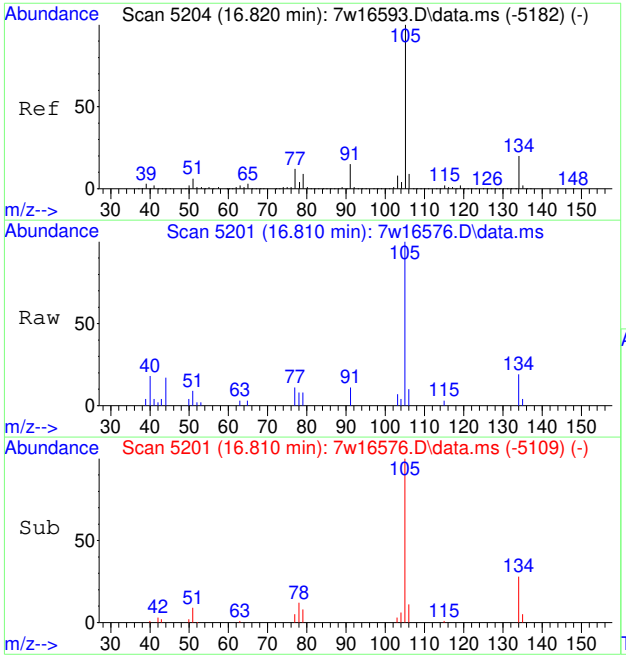


#100
O-DICHLOROBENZENE
Concen: 0.04 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:146 Resp: 1470

Ion	Ratio	Lower	Upper
146	100		
148	60.7	44.6	82.8
111	48.1	26.9	50.1

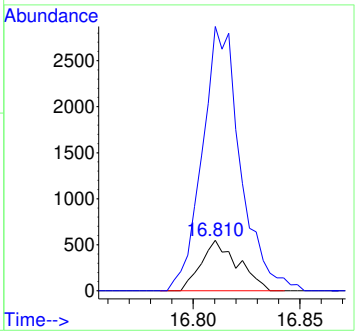


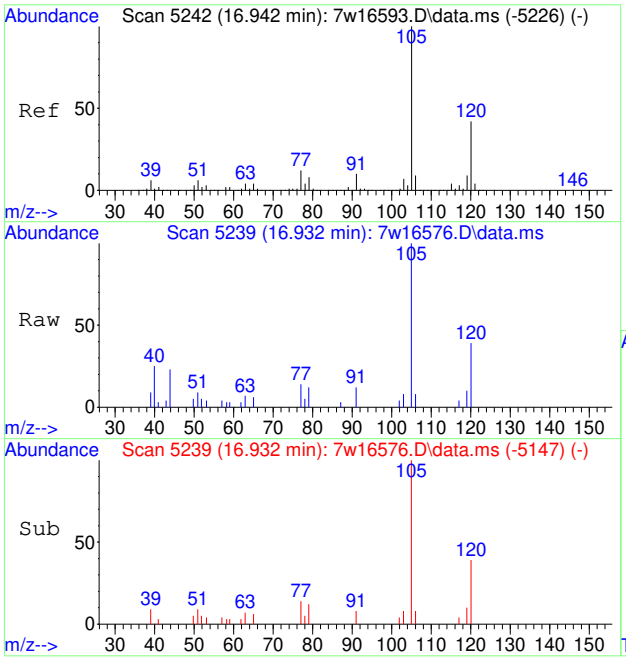


#101
SEC-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 16.810 min Scan# 5201
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 660

Ion	Ratio	Lower	Upper
134	100		
105	543.6	314.4	584.0

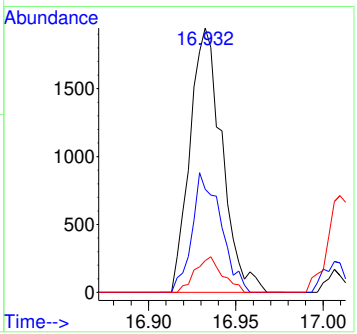


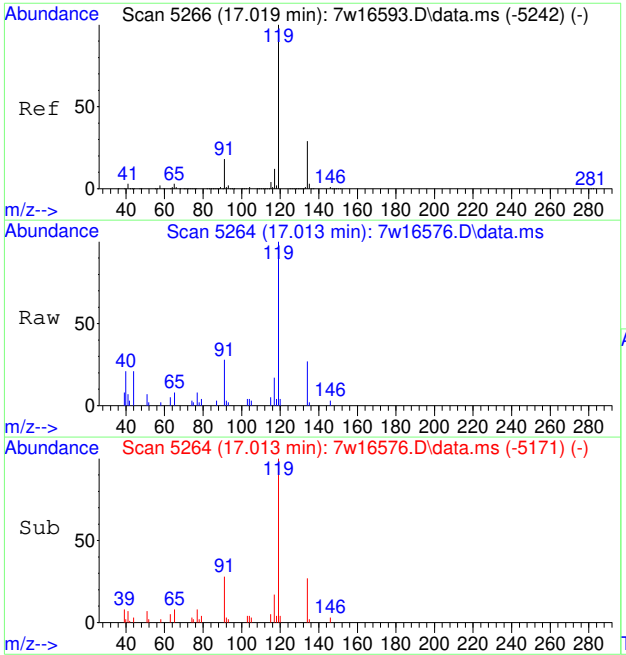


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.04 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:105 Resp: 2483

Ion	Ratio	Lower	Upper
105	100		
120	40.8	31.9	59.2
91	11.6	7.3	13.5

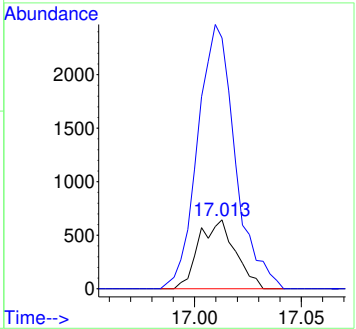


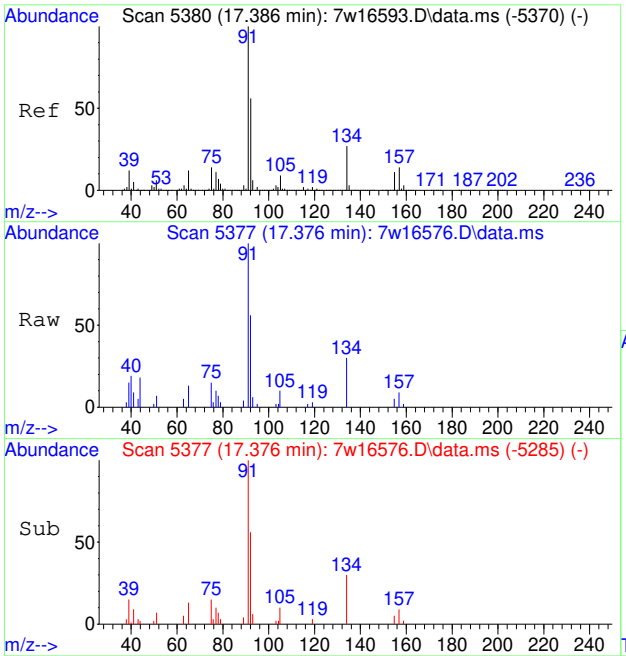


#103
P-ISOPROPYLTOLUENE
Concen: 0.04 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 767

Ion	Ratio	Lower	Upper
134	100		
119	394.7	253.7	471.3

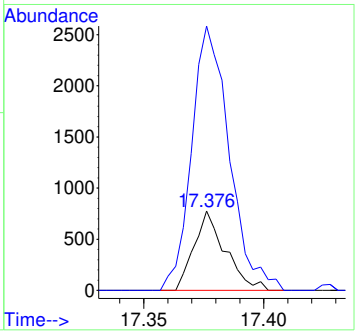


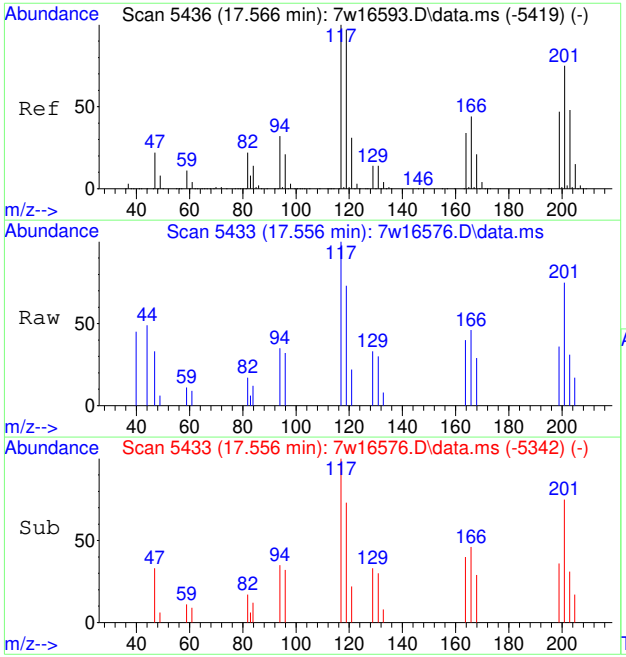


#104
N-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:134 Resp: 703

Ion	Ratio	Lower	Upper
134	100		
91	401.0	231.1	429.1

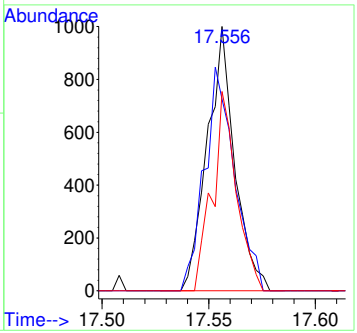


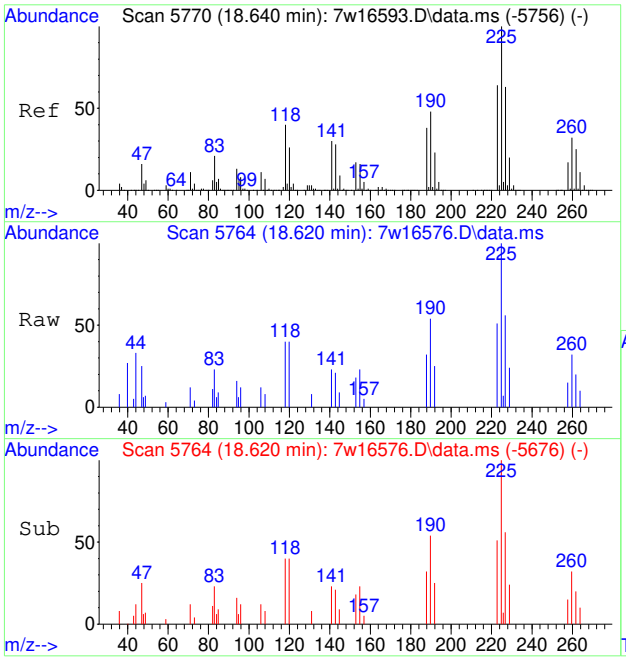


#105
HEXACHLOROETHANE
Concen: 0.04 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:117 Resp: 895

Ion	Ratio	Lower	Upper
117	100		
119	92.8	68.3	126.9
201	66.3	45.9	85.3

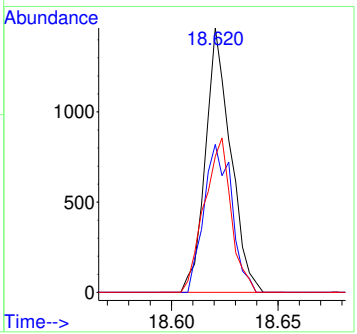


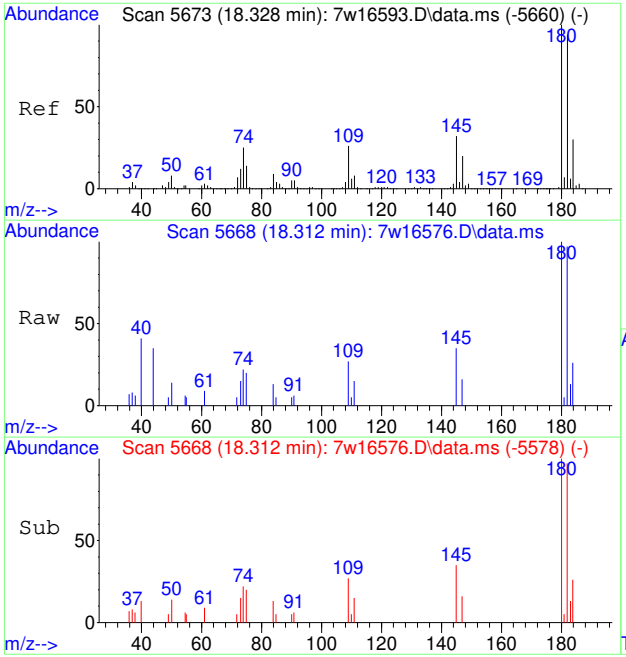


#106
HEXACHLOROBUTADIENE
Concen: 0.04 PPBV
RT: 18.620 min Scan# 5764
Delta R.T. -0.016 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:225 Resp: 1203

Ion	Ratio	Lower	Upper
225	100		
227	62.2	44.4	82.5
223	62.3	44.7	83.1

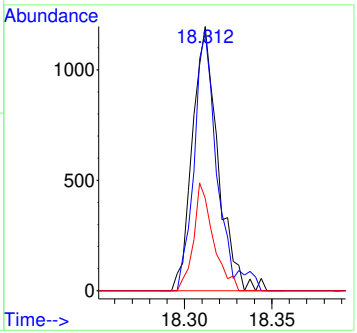


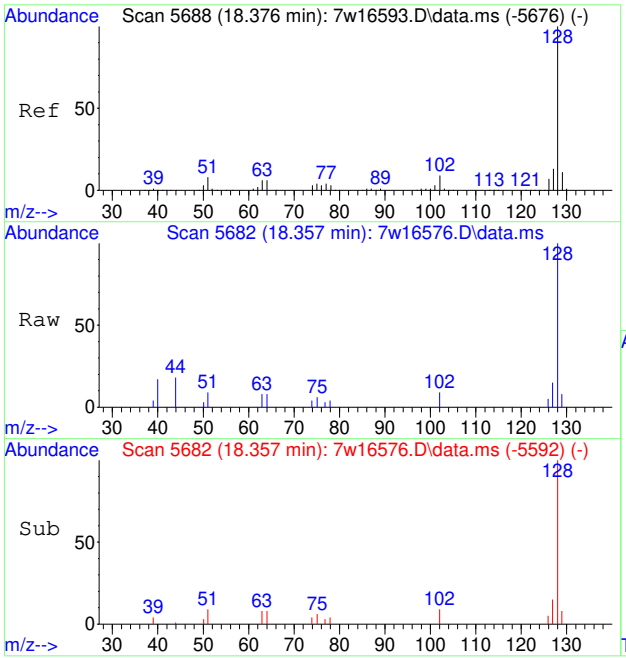


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.03 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:180 Resp: 1219

Ion	Ratio	Lower	Upper
180	100		
182	88.5	66.8	124.0
145	31.4	23.1	42.9

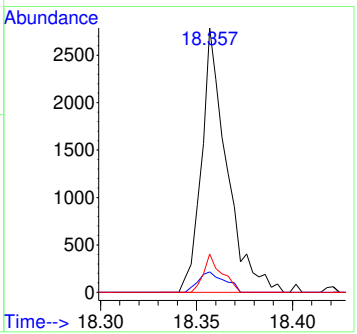




#108
NAPHTHALENE
Concen: 0.03 PPBV
RT: 18.357 min Scan# 5682
Delta R.T. -0.009 min
Lab File: 7w16576.D
Acq: 7 Aug 2025 4:00 am

Tgt Ion:128 Resp: 2545

Ion	Ratio	Lower	Upper
128	100		
129	8.1	7.3	13.7
127	10.4	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16576.D
Injection Time: 08/07/25 04:00

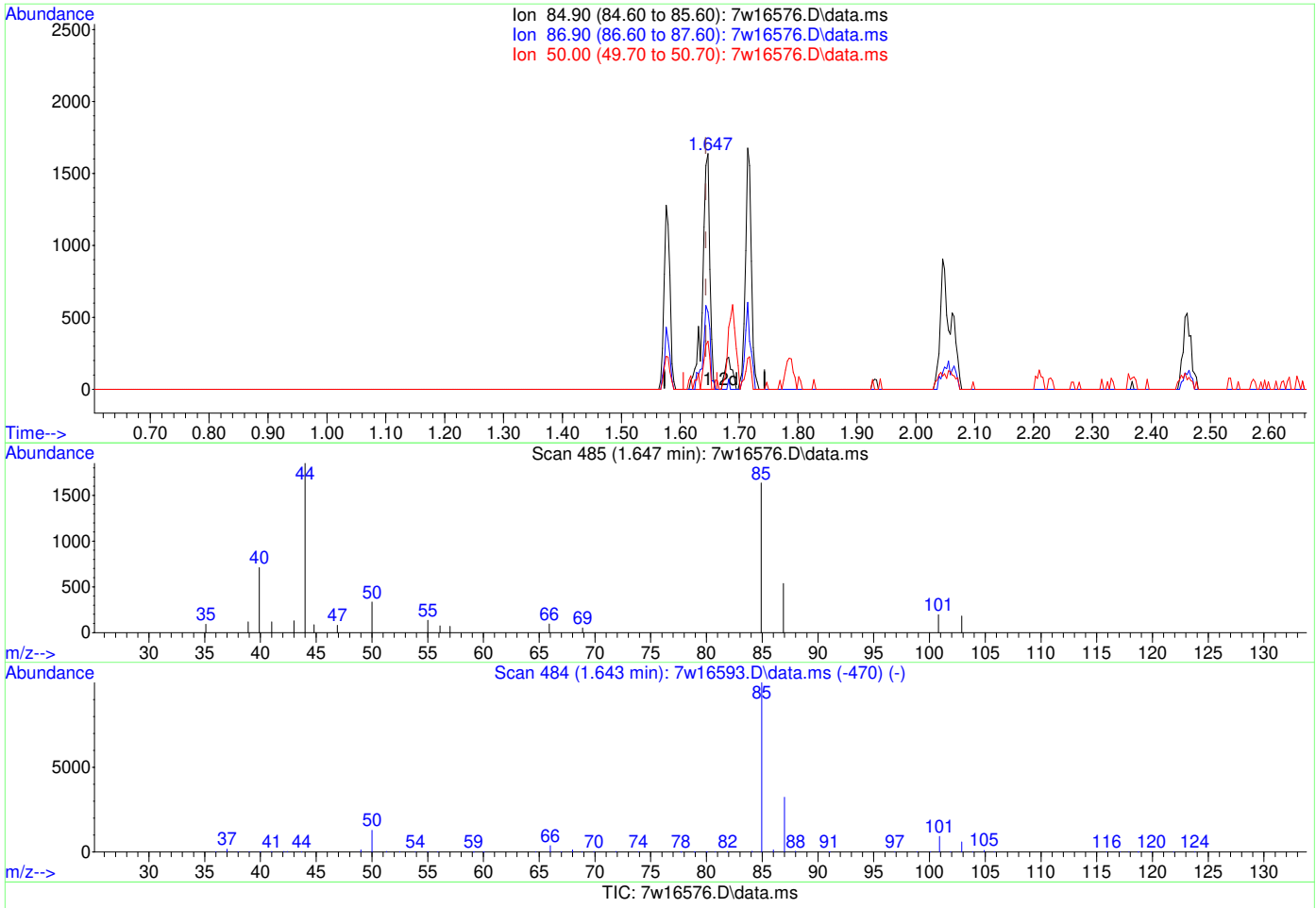
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.04PPBV

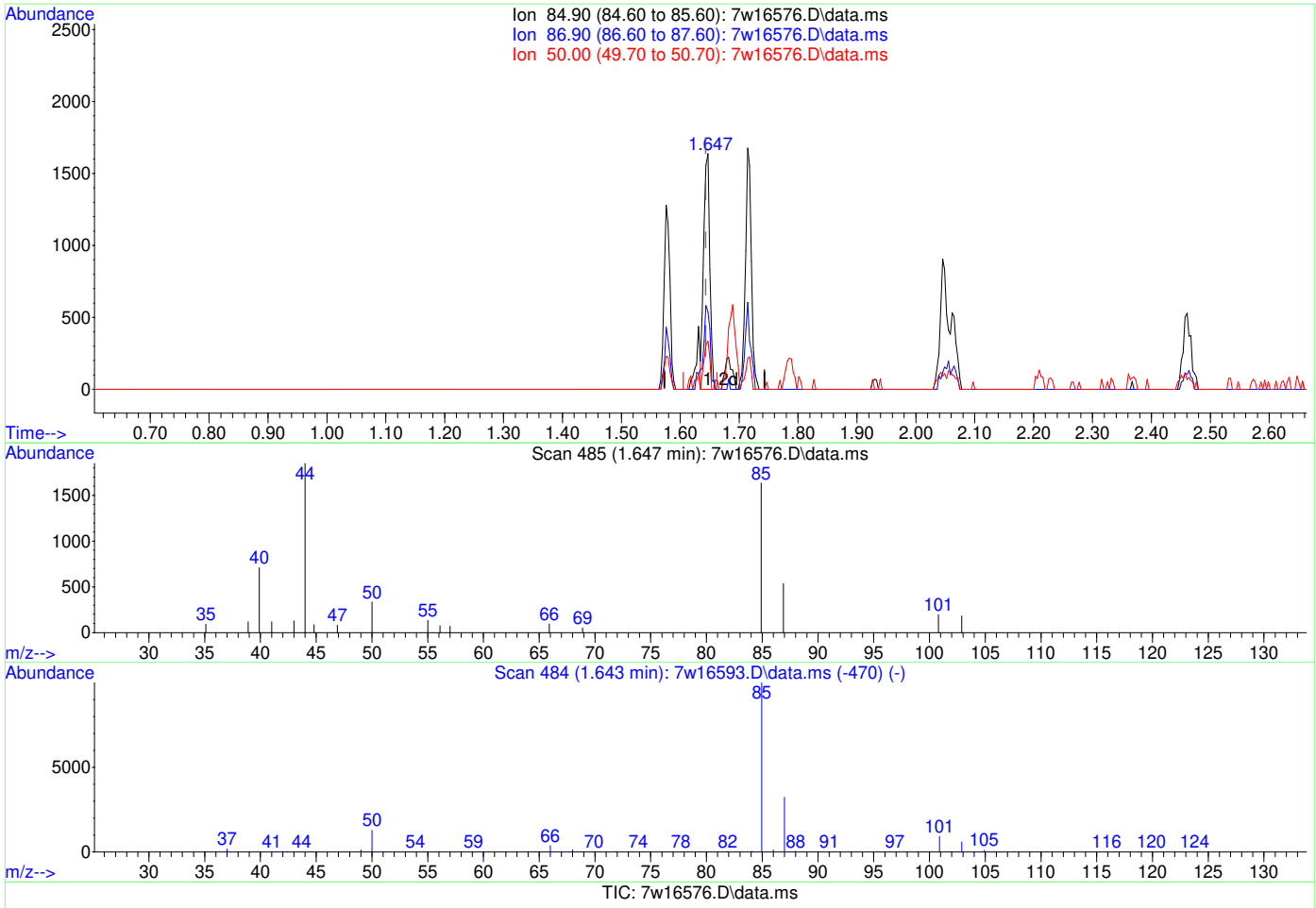
response 1388

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.65
50.00	17.30	23.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16576.D
Acq On : 7 Aug 2025 4:00 am
Operator : benk
Sample : ic577-0.04
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16576.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.03PPBV m

response 1176

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	40.90
50.00	17.30	27.64#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	113084	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	573427	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	530262	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	113084	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	422829	9.80	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	1638	0.11	PPBV		98
3) FREON 152A	1.608	65	909	0.13	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	372	0.12	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	1574	0.10	PPBV		76
6) DICHLORODIFLUOROMETHANE	1.647	85	3122m	0.09	PPBV		
7) PROPYLENE	1.627	41	1060	0.12	PPBV		84
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	2846	0.11	PPBV	#	86
9) FREON 114	1.717	85	3009	0.10	PPBV		85
10) CHLOROMETHANE	1.689	52	465	0.12	PPBV		93
11) VINYL CHLORIDE	1.746	62	1526	0.11	PPBV		97
12) 1,3-BUTADIENE	1.785	54	1299	0.12	PPBV		88
13) N-BUTANE	1.801	43	2465	0.13	PPBV	#	49
14) BROMOMETHANE	1.859	94	1194	0.11	PPBV		98
15) CHLOROETHANE	1.907	64	800	0.11	PPBV		95
16) DICHLOROFLUOROMETHANE	1.933	67	2916	0.11	PPBV		92
17) ACETONITRILE	2.000	41	1673	0.14	PPBV	#	91
18) ACROLEIN	2.036	56	823	0.13	PPBV		86
19) FREON 123	2.049	83	2970	0.11	PPBV		96
20) FREON 123A	2.065	117	1678	0.10	PPBV	#	33
21) TRICHLOROFLUOROMETHANE	2.129	101	3103	0.10	PPBV		96
24) PENTANE	2.242	42	1687	0.13	PPBV	#	90
25) IODOMETHANE	2.299	142	3122	0.11	PPBV		92
26) 1,1-DICHLOROETHYLENE	2.328	96	1351	0.12	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	3643	0.11	PPBV	#	75
29) BROMOETHENE	2.007	106	1160	0.10	PPBV		93
31) METHYLENE CHLORIDE	2.364	84	1574	0.14	PPBV	#	76
32) 3-CHLOROPROPENE	2.406	76	631	0.10	PPBV	#	54
33) FREON 113	2.460	151	1876	0.10	PPBV		81
34) TRANS-1,2-DICHLOROETHENE	2.685	96	1480	0.12	PPBV	#	73
35) TERTIARY BUTYL ALCOHOL	2.348	59	3930	0.12	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.798	73	4162	0.11	PPBV	#	71
37) TETRAHYDROFURAN	3.496	72	660	0.11	PPBV		88
38) HEXANE	3.238	57	2906	0.12	PPBV		87
39) VINYL ACETATE	2.824	86	343	0.10	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.759	63	2595	0.10	PPBV		96
41) METHYL ETHYL KETONE	2.933	72	844	0.13	PPBV	#	85
42) CIS-1,2-DICHLOROETHENE	3.113	96	1430	0.11	PPBV		80
43) DIISOPROPYL ETHER	3.248	59	742	0.11	PPBV		95
44) ETHYL ACETATE	3.258	61	462	0.09	PPBV		87
45) METHYL ACRYLATE	3.241	55	3222	0.11	PPBV	#	96
46) CHLOROFORM	3.258	83	2745	0.10	PPBV	#	90
47) 2,4-DIMETHYLPENTANE	3.740	57	3064	0.11	PPBV		95
48) 1,1,1-TRICHLOROETHANE	3.820	97	2869	0.10	PPBV		93
49) CARBON TETRACHLORIDE	4.235	117	2721	0.09	PPBV		97
50) 1,2-DICHLOROETHANE	3.663	62	2043	0.10	PPBV		96
51) BENZENE	4.126	78	4491	0.12	PPBV		95
53) CYCLOHEXANE	4.328	84	1883	0.11	PPBV	#	65
54) 2,3-DIMETHYLPENTANE	4.582	71	954	0.11	PPBV	#	54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

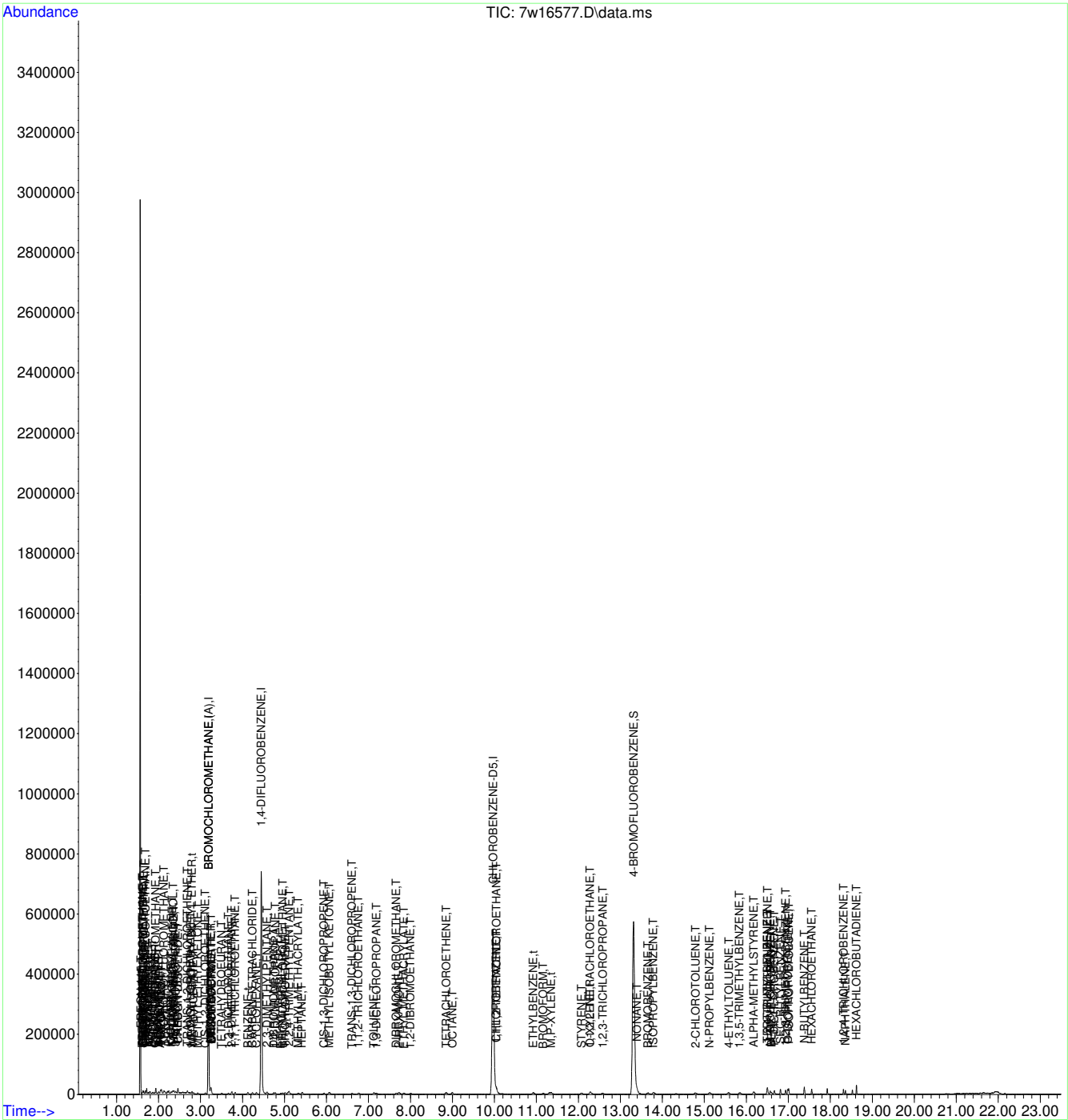
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) TRICHLOROETHENE	5.016	95	1997	0.11	PPBV		83
56) 1,2-DICHLOROPROPANE	4.785	63	1753	0.11	PPBV		85
57) DIBROMOMETHANE	4.746	174	1723	0.11	PPBV		90
58) ETHYL ACRYLATE	4.910	55	3841	0.10	PPBV	#	93
59) BROMODICHLOROMETHANE	4.958	83	2818	0.09	PPBV		96
60) 2,2,4-TRIMETHYLPENTANE	5.106	57	9397	0.12	PPBV	#	91
62) HEPTANE	5.415	43	2892	0.11	PPBV		85
63) METHYL METHACRYLATE	5.322	69	1510	0.10	PPBV		78
64) METHYL ISOBUTYL KETONE	6.061	58	2096	0.14	PPBV	#	87
65) CIS-1,3-DICHLOROPROPENE	5.936	75	2385	0.09	PPBV		97
66) TOLUENE	7.129	91	5187	0.11	PPBV		95
67) 1,3-DICHLOROPROPANE	7.187	76	2497	0.10	PPBV	#	93
68) TRANS-1,3-DICHLOROPROPENE	6.605	75	1972	0.08	PPBV		93
69) 1,1,2-TRICHLOROETHANE	6.759	83	1417	0.10	PPBV		93
70) 2-HEXANONE	7.714	58	3348	0.17	PPBV	#	87
71) ETHYL METHACRYLATE	7.843	69	2476	0.10	PPBV	#	74
72) TETRACHLOROETHENE	8.849	164	1845	0.11	PPBV		97
73) DIBROMOCHLOROMETHANE	7.663	129	2664	0.09	PPBV		97
74) 1,2-DIBROMOETHANE	7.991	107	2697	0.11	PPBV	#	94
75) OCTANE	9.000	43	3873	0.11	PPBV		88
77) 1,1,1,2-TETRACHLOROETHANE	10.045	131	2123	0.10	PPBV		97
78) CHLOROBENZENE	10.035	112	4090	0.11	PPBV	#	79
79) ETHYLBENZENE	10.923	91	6930	0.11	PPBV		100
80) M,P-XYLENE	11.347	91	10889	0.22	PPBV	#	87
81) O-XYLENE	12.277	91	5536	0.11	PPBV	#	76
82) STYRENE	12.071	104	3856	0.10	PPBV	#	49
83) NONANE	13.389	43	4193	0.11	PPBV		81
84) BROMOFORM	11.158	173	2131	0.08	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.277	83	3686	0.10	PPBV	#	95
86) 1,2,3-TRICHLOROPROPANE	12.579	75	2860	0.10	PPBV	#	99
88) ISOPROPYLBENZENE	13.778	120	2075	0.11	PPBV		81
89) BROMOBENZENE	13.649	77	4058	0.11	PPBV	#	70
90) 2-CHLOROTOLUENE	14.788	126	1780	0.10	PPBV	#	61
91) N-PROPYLBENZENE	15.122	120	1971	0.10	PPBV		94
92) 4-ETHYLTOLUENE	15.582	105	7463	0.10	PPBV	#	96
93) 1,3,5-TRIMETHYLBENZENE	15.829	105	6383	0.10	PPBV	#	34
94) ALPHA-METHYLSTYRENE	16.170	118	2929	0.09	PPBV		96
95) TERT-BUTYLBENZENE	16.495	134	1569	0.10	PPBV		94
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	6125	0.10	PPBV		95
97) BENZYL CHLORIDE	16.598	91	3788	0.07	PPBV	#	87
98) M-DICHLOROBENZENE	16.566	146	4159	0.10	PPBV		96
99) P-DICHLOROBENZENE	16.662	146	4312	0.10	PPBV		95
100) O-DICHLOROBENZENE	16.987	146	4193	0.11	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	2000	0.11	PPBV		89
102) 1,2,3-TRIMETHYLBENZENE	16.935	105	6206	0.10	PPBV		94
103) P-ISOPROPYLTOLUENE	17.009	134	2027	0.10	PPBV		86
104) N-BUTYLBENZENE	17.376	134	1794	0.09	PPBV		70
105) HEXACHLOROETHANE	17.556	117	2143	0.09	PPBV		99
106) HEXACHLOROBUTADIENE	18.624	225	3071	0.12	PPBV		96
107) 1,2,4-TRICHLOROBENZENE	18.312	180	2908	0.08	PPBV		97
108) NAPHTHALENE	18.360	128	6418	0.08	PPBV		99

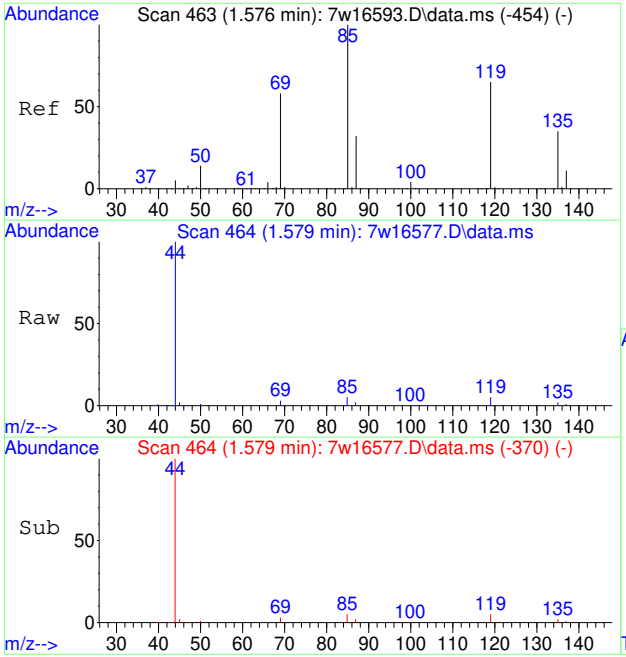
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 14:58:34 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

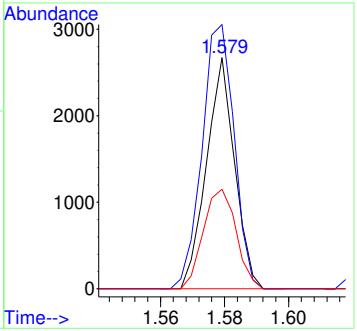


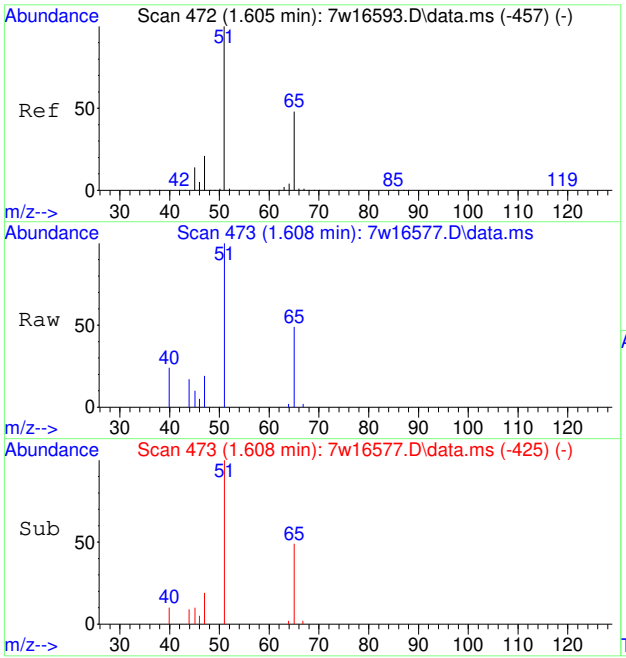


#2
FREON 115
Concen: 0.11 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:119 Resp: 1638

Ion	Ratio	Lower	Upper
119	100		
85	130.1	90.9	168.7
135	50.1	38.2	71.0

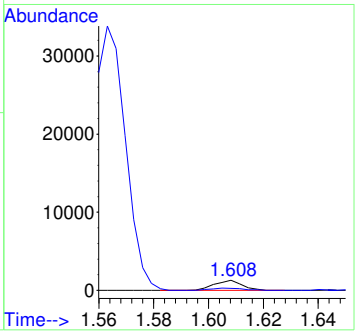


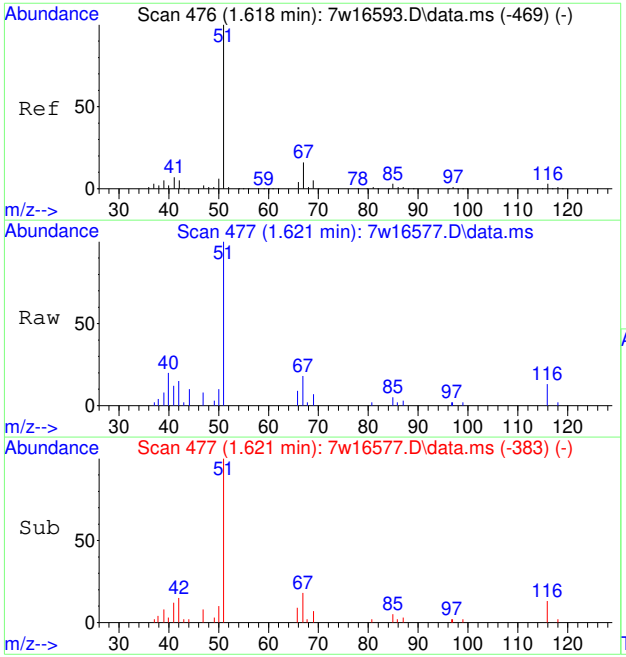


#3
FREON 152A
Concen: 0.13 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 909

Ion	Ratio	Lower	Upper
65	100		
45	25.6	20.6	38.4

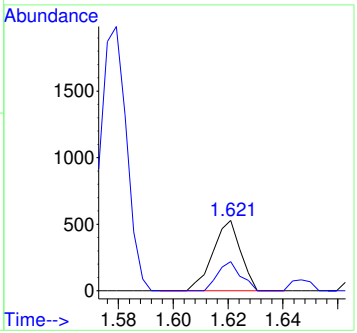


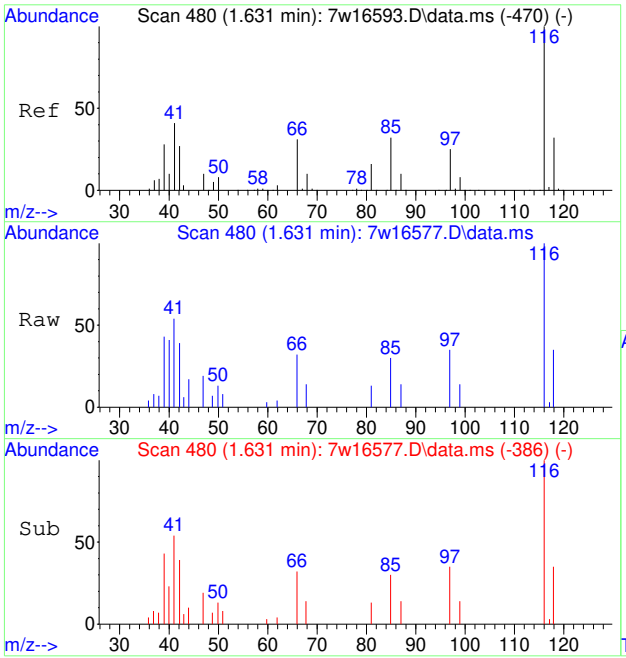


#4
CHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 372

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

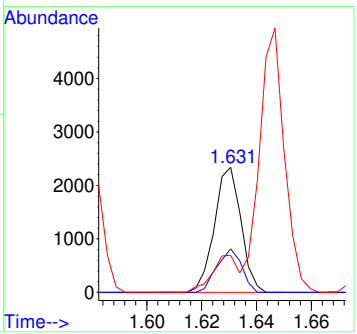


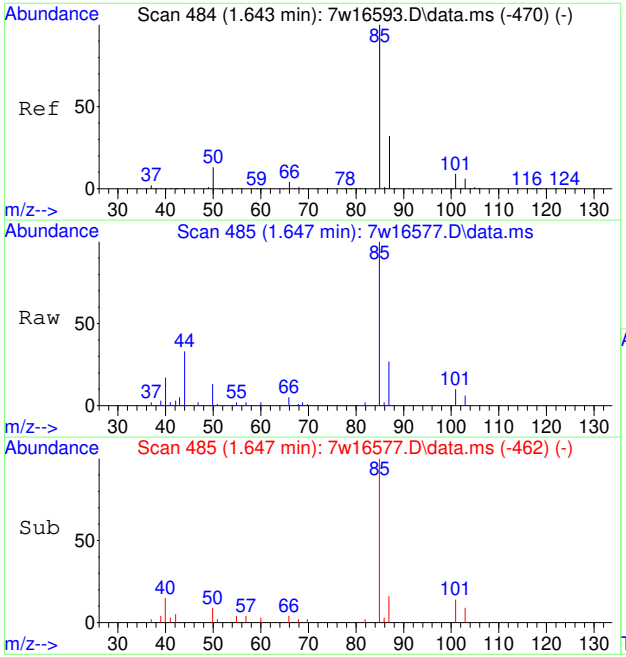


#5
CHLOROTRIFLUOROETHENE
Concen: 0.10 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:116 Resp: 1574

Ion	Ratio	Lower	Upper
116	100		
118	32.5	22.7	42.1
85	227.6	194.7	361.7

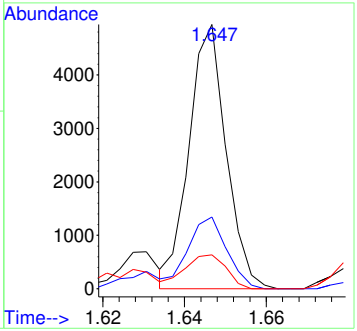


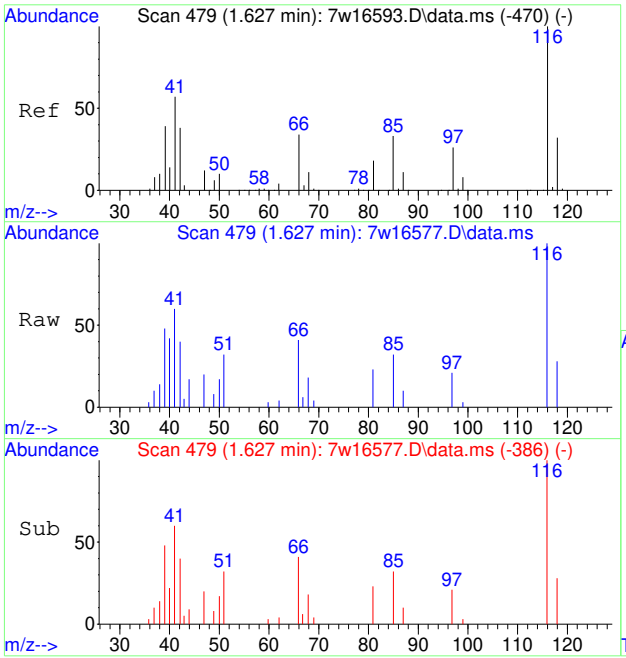


#6
DICHLORODIFLUOROMETHANE
Concen: 0.09 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3122

Ion	Ratio	Lower	Upper
85	100		
87	34.8	23.1	42.9
50	24.8	12.1	22.5#

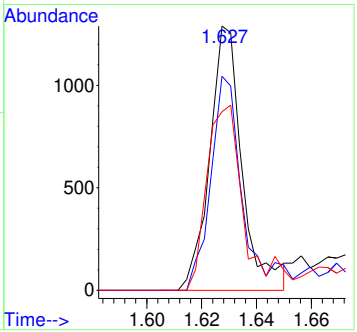


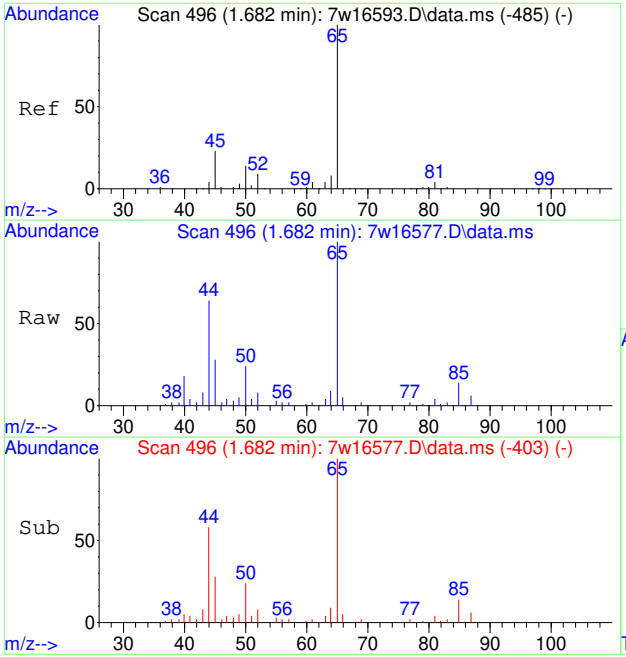


#7
PROPYLENE
Concen: 0.12 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1060

Ion	Ratio	Lower	Upper
41	100		
39	84.6	51.0	94.8
42	80.7	46.6	86.6

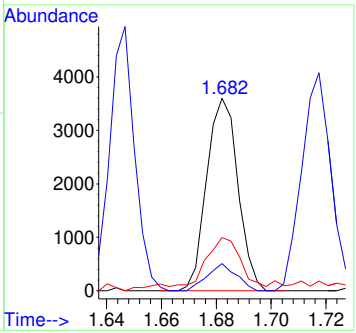


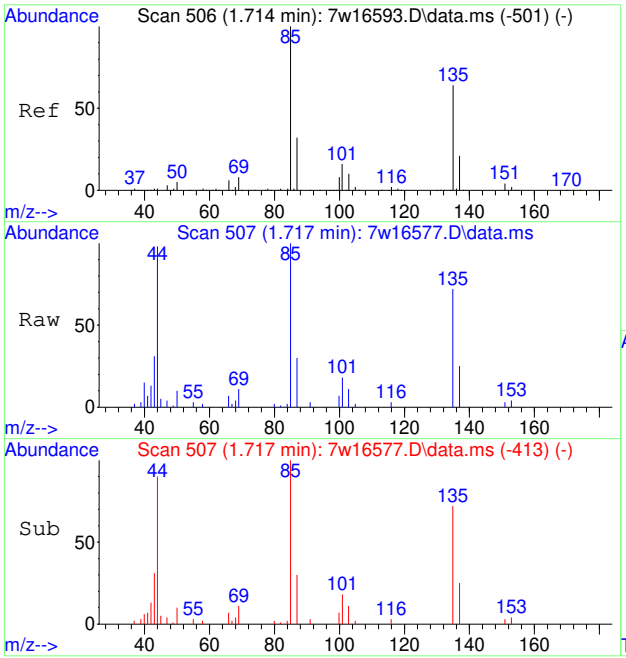


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.11 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 65 Resp: 2846

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	35.0	17.0	31.6#

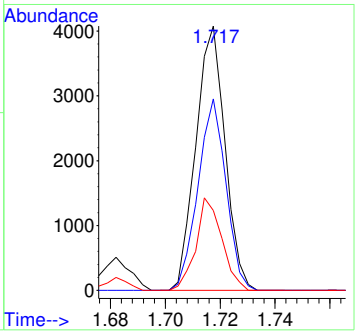


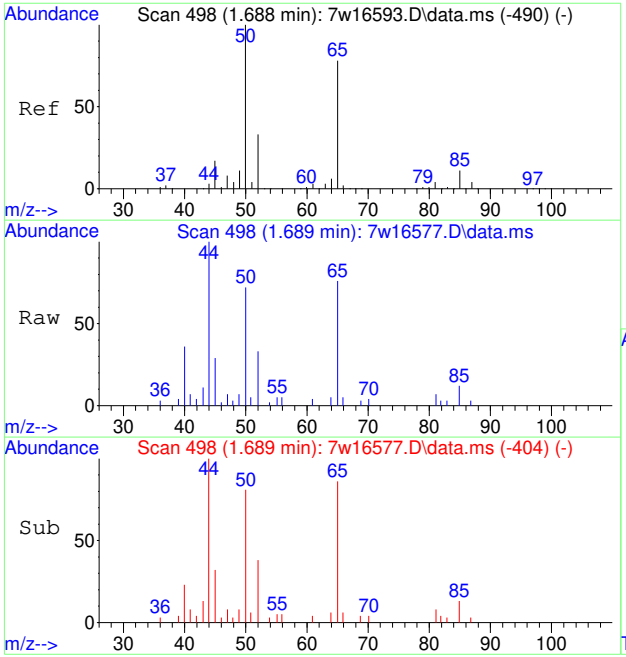


#9
FREON 114
Concen: 0.10 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 85 Resp: 3009

Ion	Ratio	Lower	Upper
85	100		
135	69.5	61.3	113.9
87	31.1	23.2	43.0

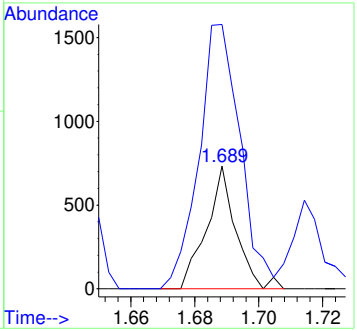


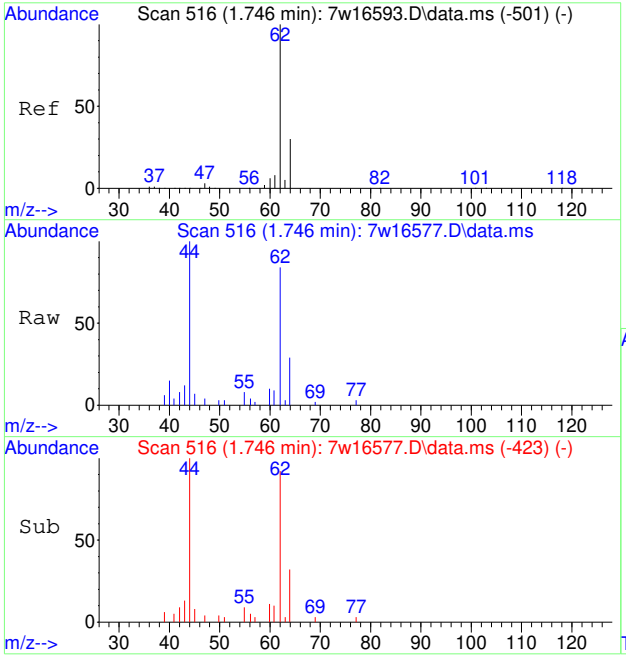


#10
CHLOROMETHANE
Concen: 0.12 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 52 Resp: 465

Ion	Ratio	Lower	Upper
52	100		
50	309.9	227.6	422.6

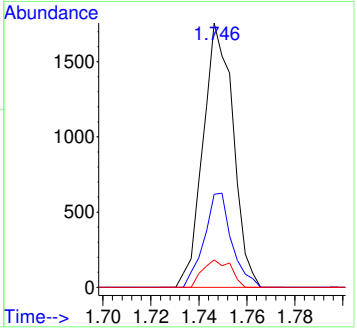


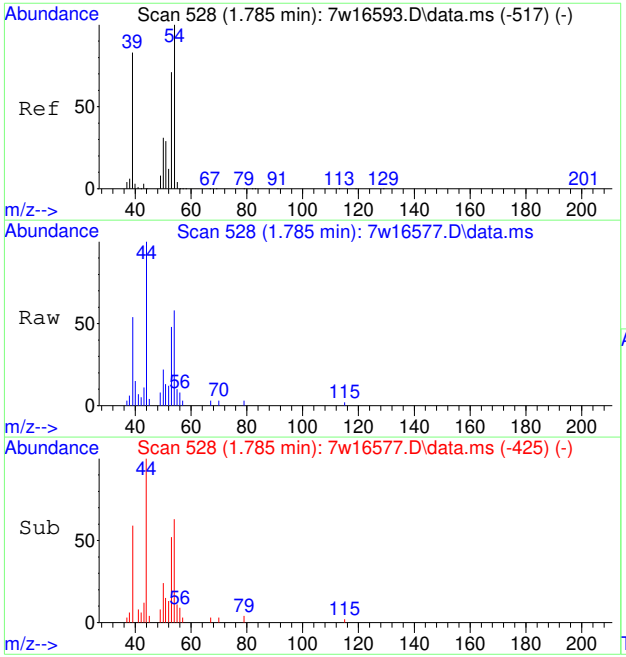


#11
VINYL CHLORIDE
Concen: 0.11 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 1526

Ion	Ratio	Lower	Upper
62	100		
64	32.6	21.6	40.2
61	9.8	5.7	10.7

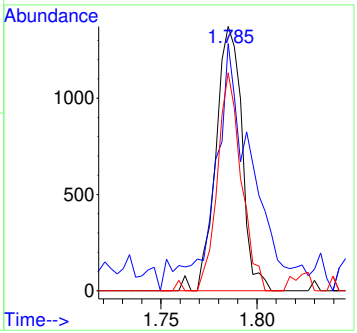


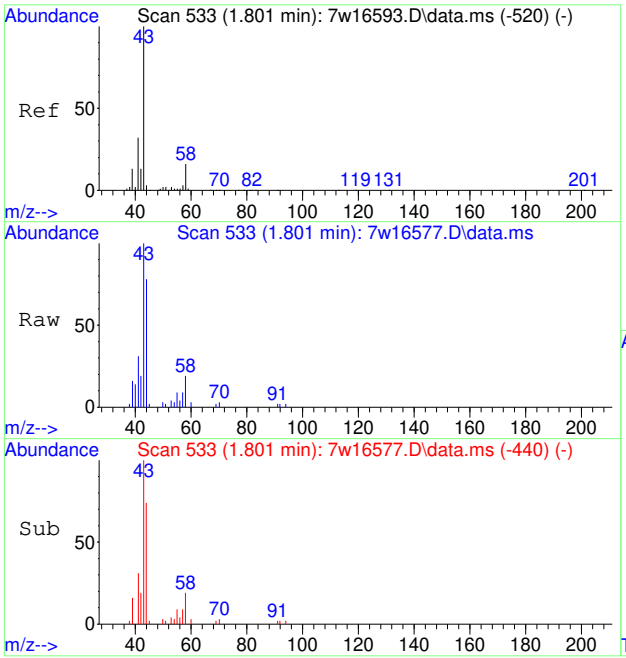


#12
1,3-BUTADIENE
Concen: 0.12 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 54 Resp: 1299

Ion	Ratio	Lower	Upper
54	100		
39	136.5	125.6	185.6
53	75.2	40.7	100.7

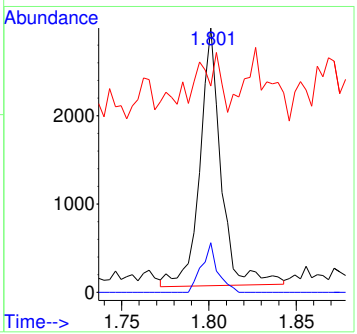


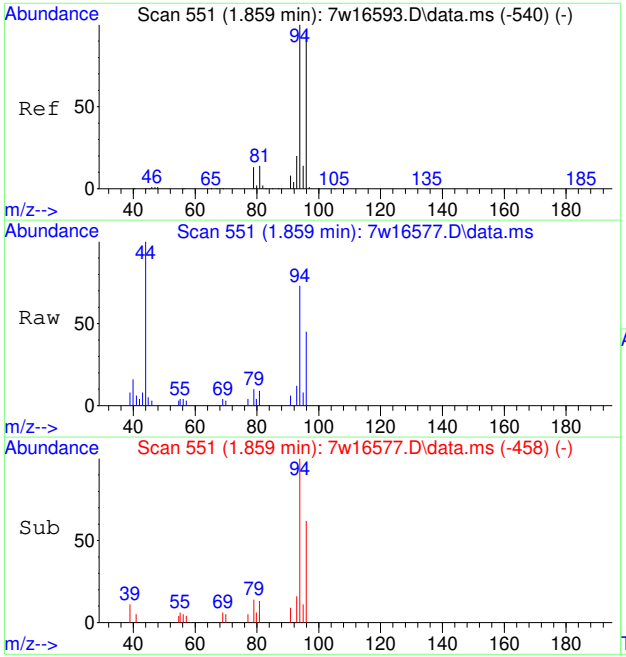


#13
N-BUTANE
Concen: 0.13 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2465

Ion	Ratio	Lower	Upper
43	100		
58	14.6	10.4	19.4
44	79.0	3.0	5.6#

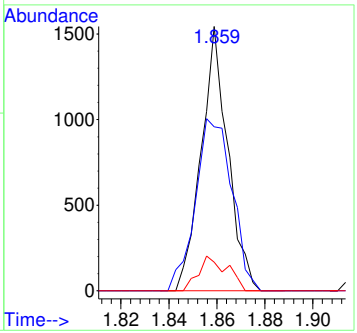


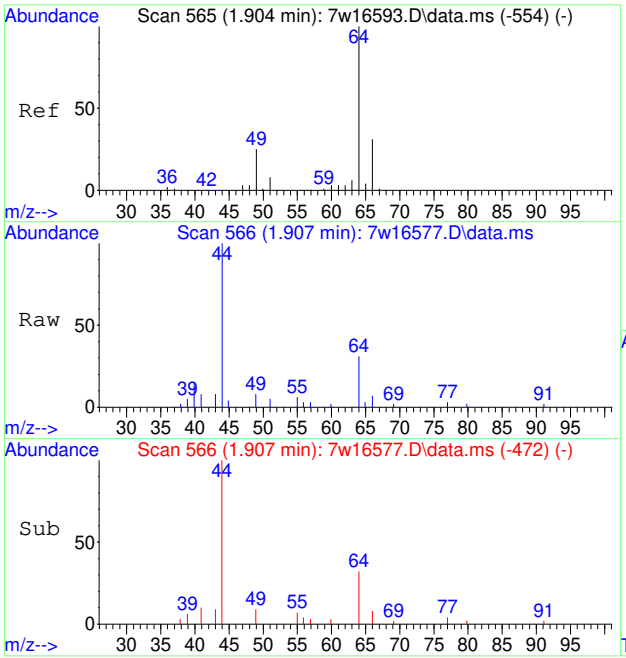


#14
BROMOMETHANE
Concen: 0.11 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 94 Resp: 1194

Ion	Ratio	Lower	Upper
94	100		
96	89.2	63.6	118.0
95	14.1	10.0	18.6

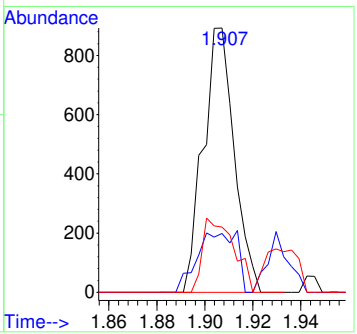


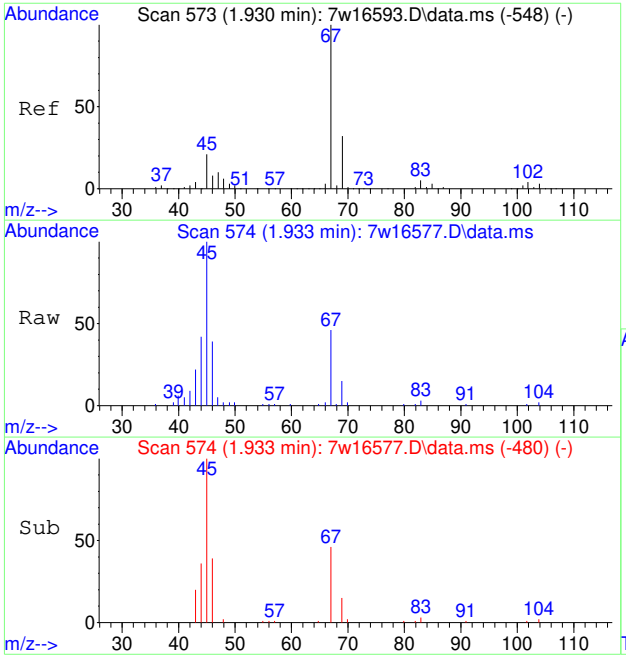


#15
CHLOROETHANE
Concen: 0.11 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 64 Resp: 800

Ion	Ratio	Lower	Upper
64	100		
66	29.4	23.0	42.6
49	28.2	21.5	39.9

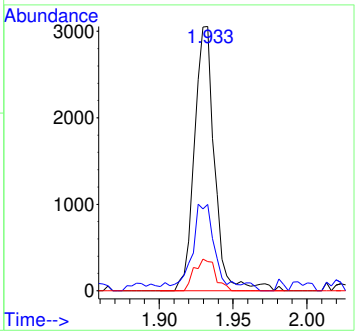


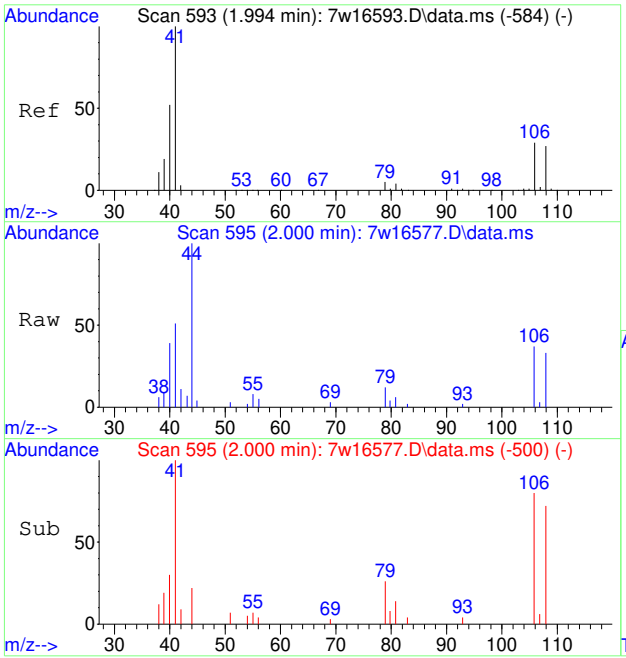


#16
DICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 67 Resp: 2916

Ion	Ratio	Lower	Upper
67	100		
69	39.0	23.2	43.0
47	12.6	9.6	17.8

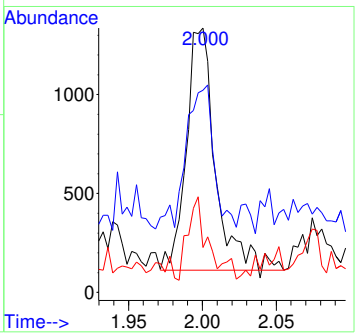


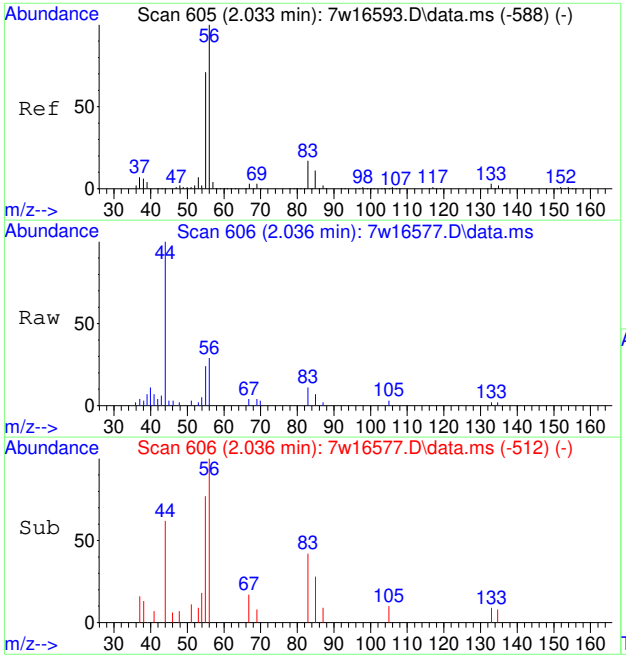


#17
ACETONITRILE
Concen: 0.14 PPBV
RT: 2.000 min Scan# 595
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 41 Resp: 1673

Ion	Ratio	Lower	Upper
41	100		
40	54.7	38.4	71.4
39	36.0	14.5	26.9#

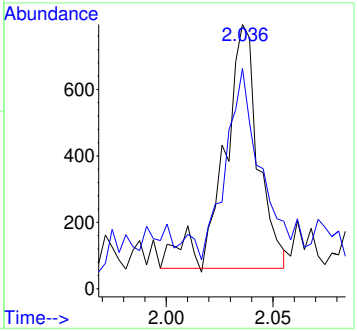


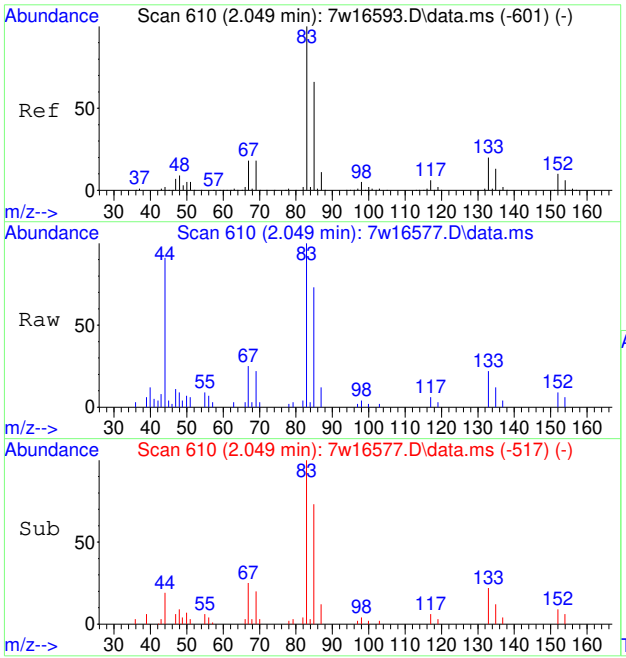


#18
ACROLEIN
Concen: 0.13 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 56 Resp: 823

Ion	Ratio	Lower	Upper
56	100		
55	85.2	51.2	95.2

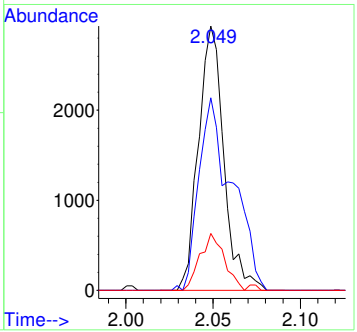


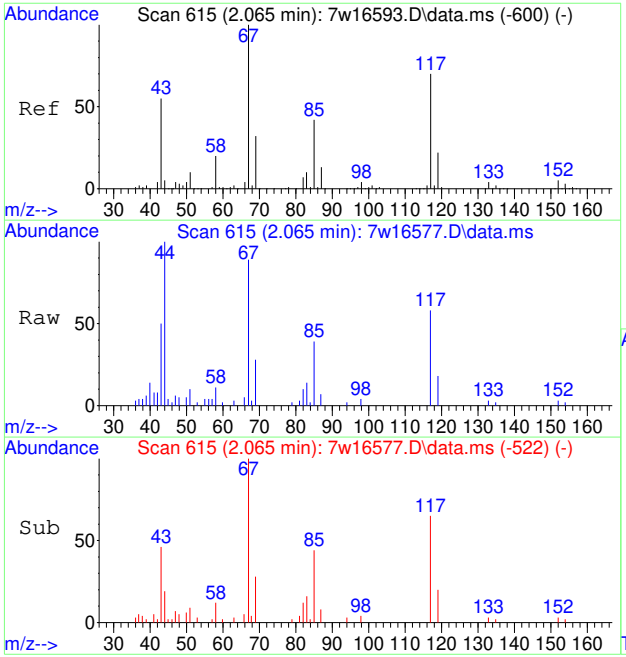


#19
FREON 123
Concen: 0.11 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2970

Ion	Ratio	Lower	Upper
83	100		
85	95.5	65.7	121.9
133	21.5	19.9	36.9

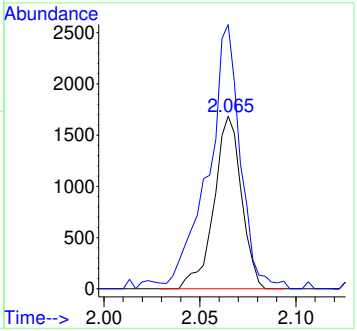


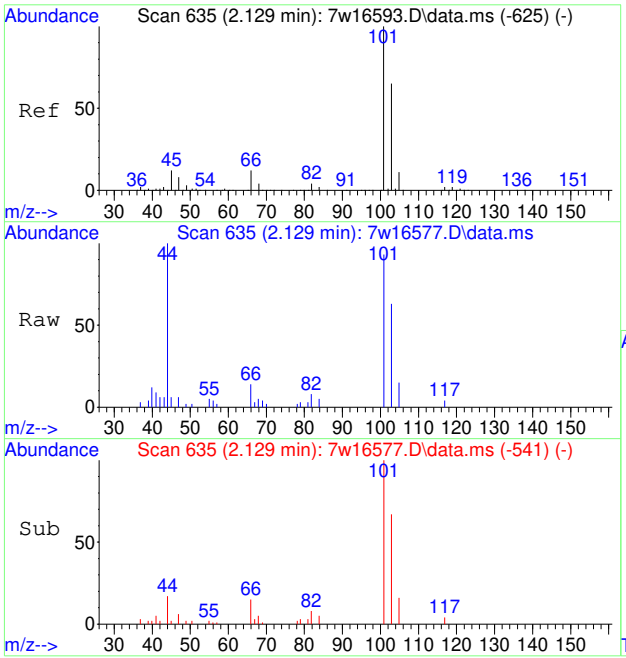


#20
FREON 123A
Concen: 0.10 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 1678

Ion	Ratio	Lower	Upper
117	100		
67	184.8	78.8	146.4#

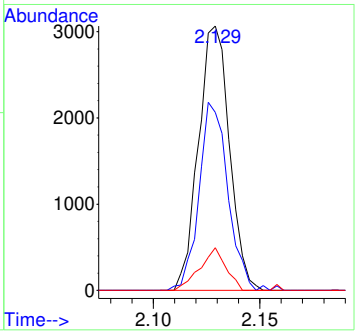


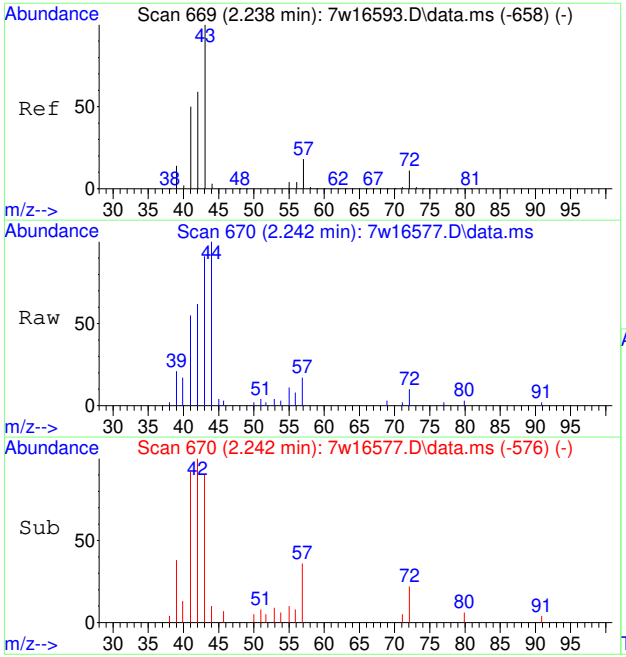


#21
TRICHLOROFLUOROMETHANE
Concen: 0.10 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:101 Resp: 3103

Ion	Ratio	Lower	Upper
101	100		
103	66.1	44.3	82.3
105	13.6	7.3	13.7

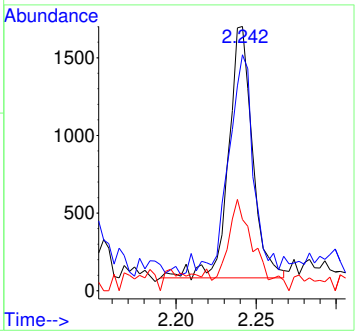


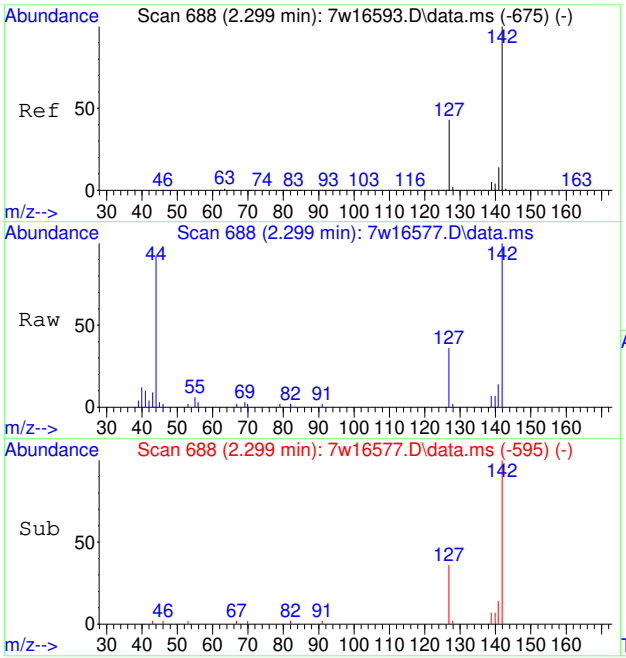


#24
PENTANE
Concen: 0.13 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 42 Resp: 1687

Ion	Ratio	Lower	Upper
42	100		
41	96.6	69.2	128.6
57	46.8	18.6	34.6#

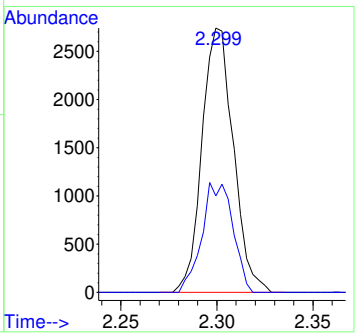


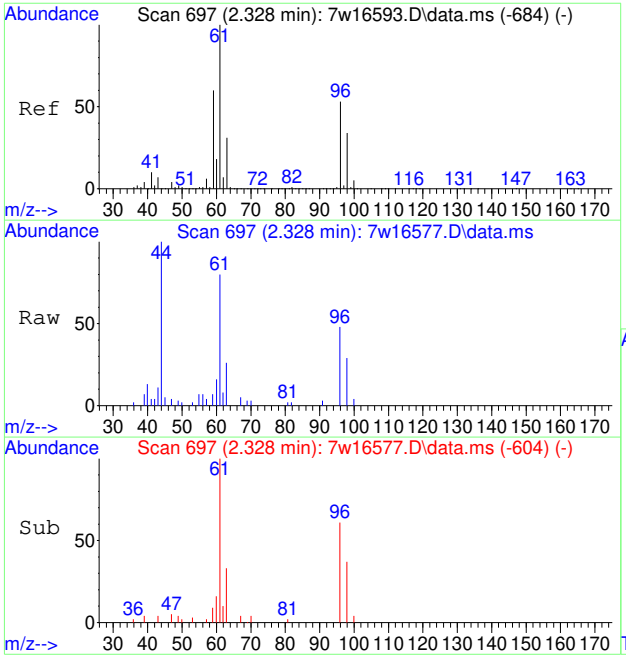


#25
IODOMETHANE
Concen: 0.11 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:142 Resp: 3122

Ion	Ratio	Lower	Upper
142	100		
127	40.9	32.1	59.7

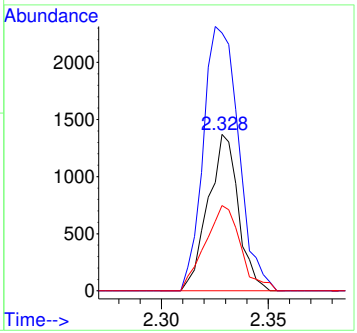


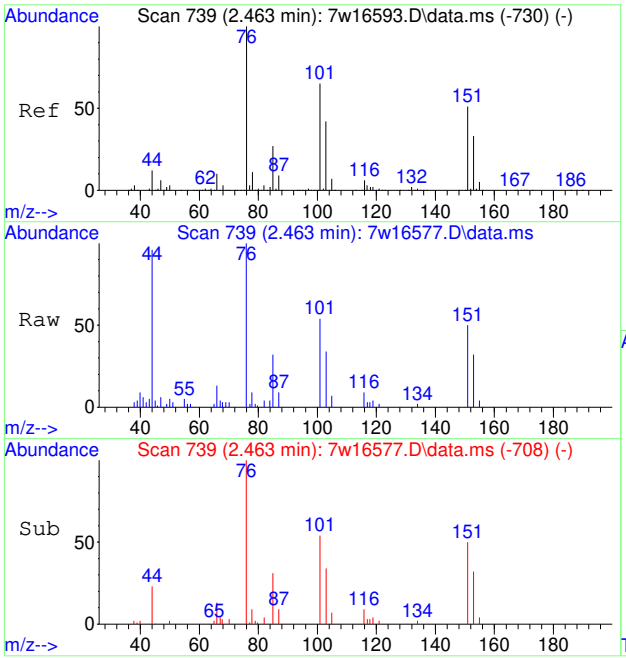


#26
1,1-DICHLOROETHYLENE
Concen: 0.12 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1351

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	64.3	33.2	61.7#

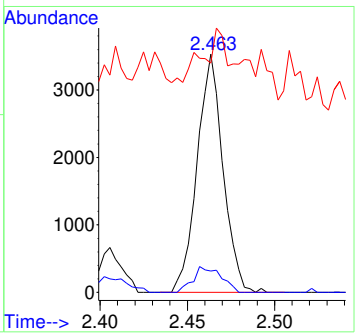


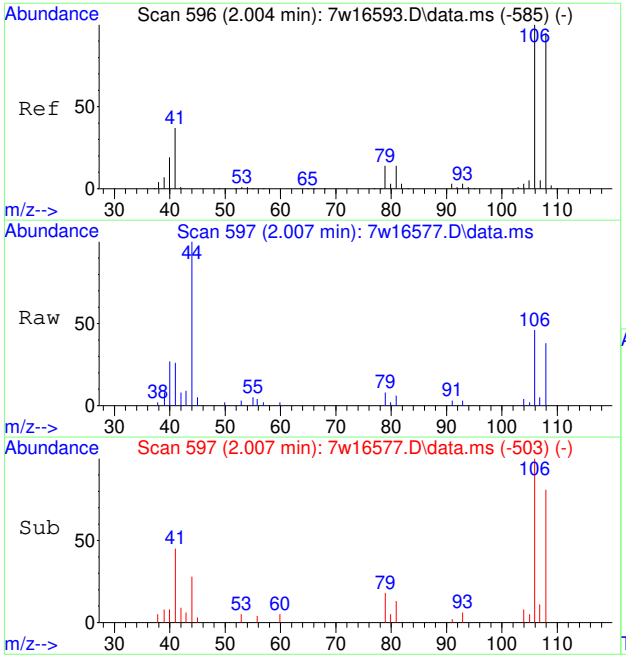


#27
CARBON DISULFIDE
Concen: 0.11 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 3643

Ion	Ratio	Lower	Upper
76	100		
78	11.6	8.3	15.3
44	36.6	13.0	24.1#

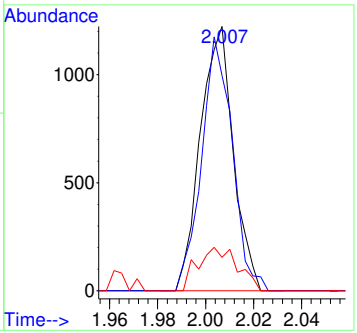


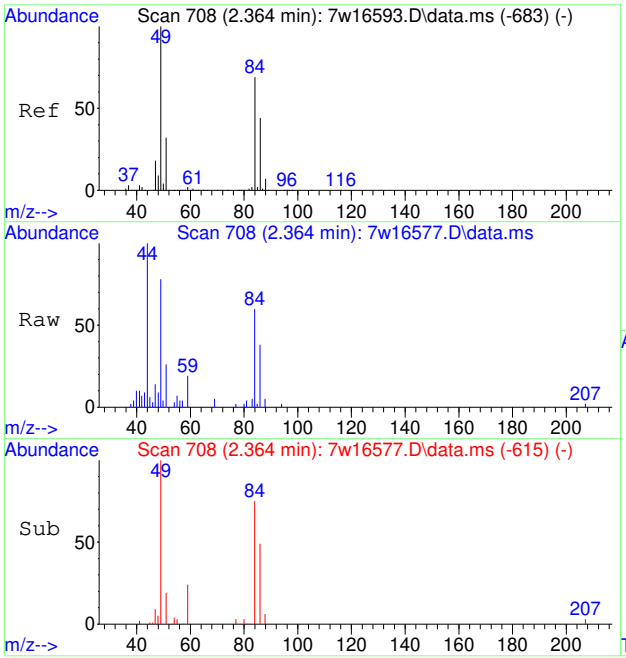


#29
BROMOETHENE
Concen: 0.10 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:106 Resp: 1160

Ion	Ratio	Lower	Upper
106	100		
108	90.0	68.3	126.8
81	20.0	14.7	27.3

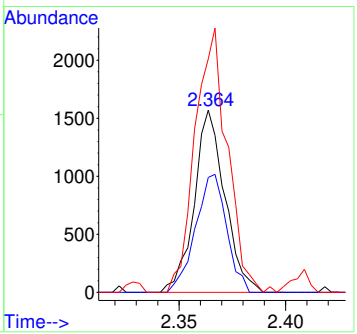


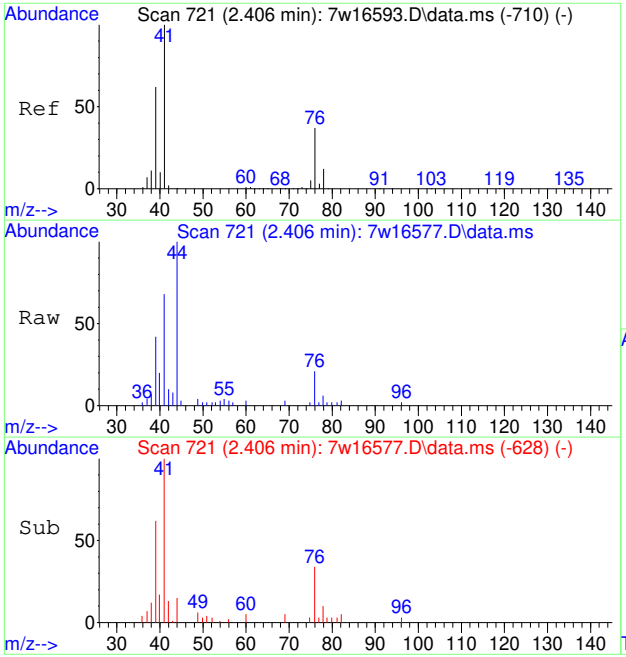


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1574

Ion	Ratio	Lower	Upper
84	100		
86	65.7	44.9	83.5
49	152.7	79.7	148.1#

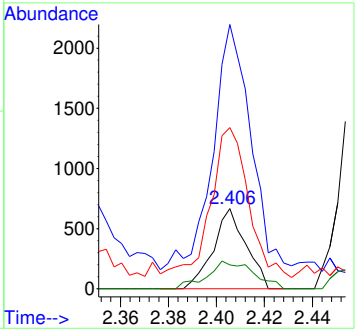


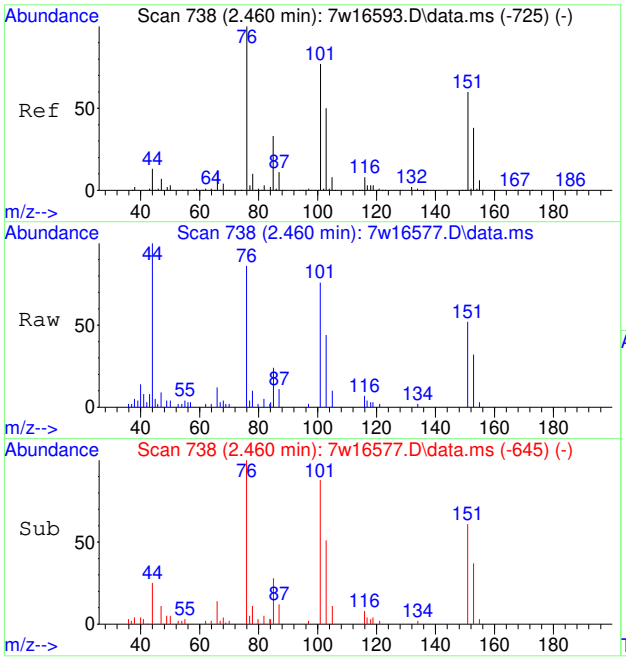


#32
3-CHLOROPROPENE
Concen: 0.10 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 631

Ion	Ratio	Lower	Upper
76	100		
41	375.9	160.9	298.9#
39	221.1	150.7	279.9
78	48.3	22.7	42.1#

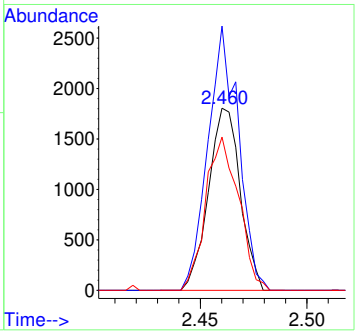


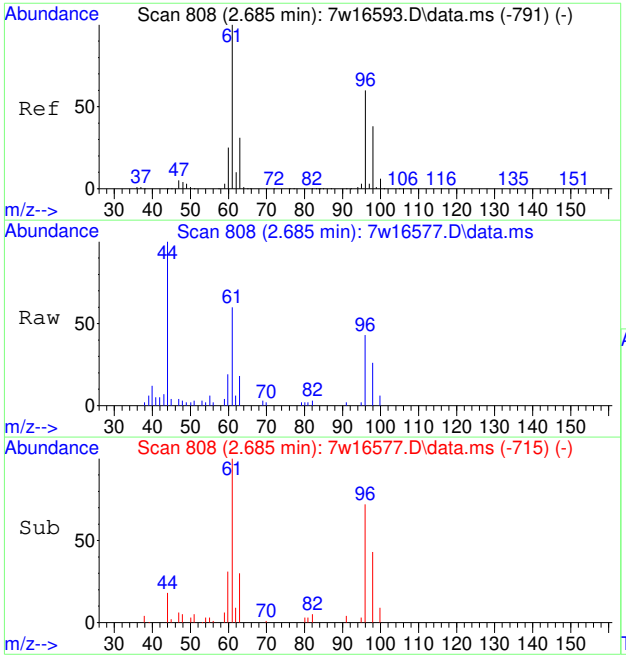


#33
FREON 113
Concen: 0.10 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:151 Resp: 1876

Ion	Ratio	Lower	Upper
151	100		
101	139.1	81.1	150.7
103	86.9	51.4	95.4

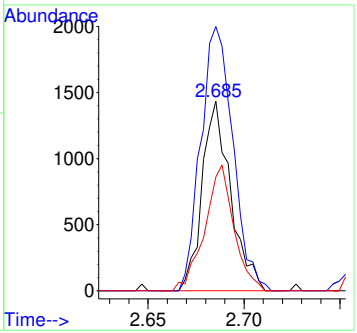


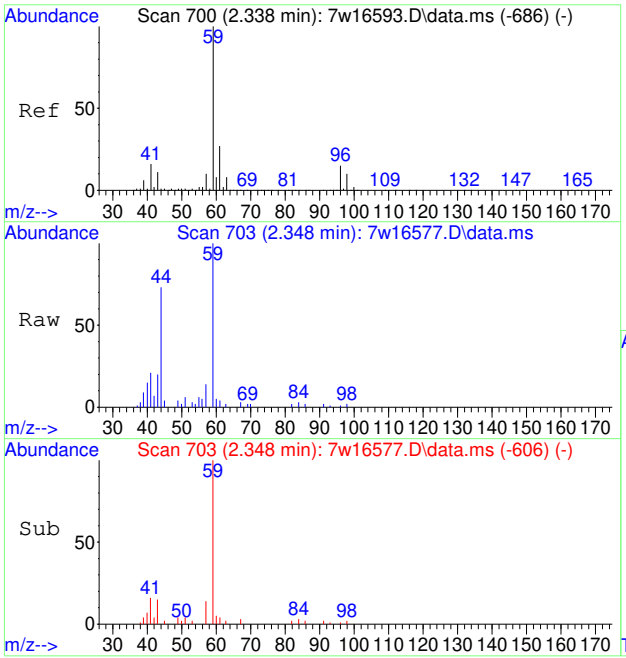


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.12 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1480

Ion	Ratio	Lower	Upper
96	100		
61	157.9	78.5	145.9#
98	67.7	46.5	86.3

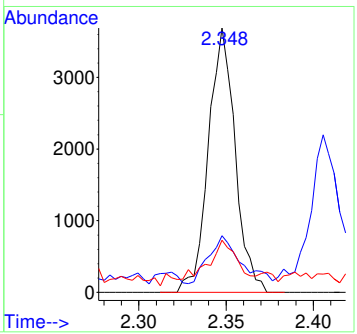


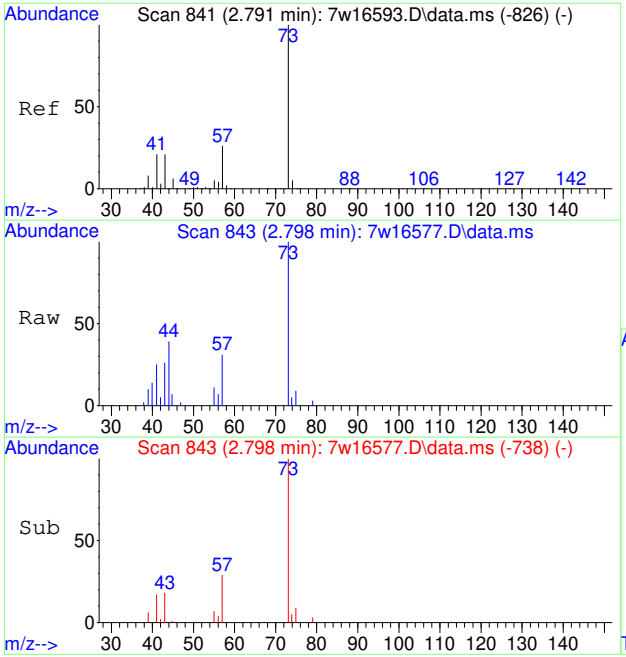


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.12 PPBV
RT: 2.348 min Scan# 703
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 3930

Ion	Ratio	Lower	Upper
59	100		
41	20.7	15.3	28.5
43	26.0	12.3	22.9#

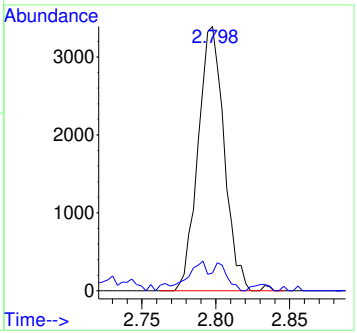


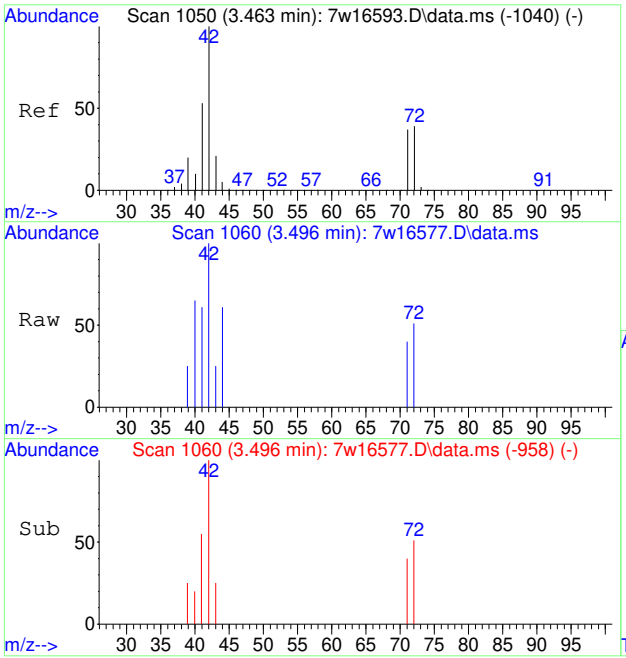


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.11 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 73 Resp: 4162

Ion	Ratio	Lower	Upper
73	100		
45	14.6	3.4	6.4#

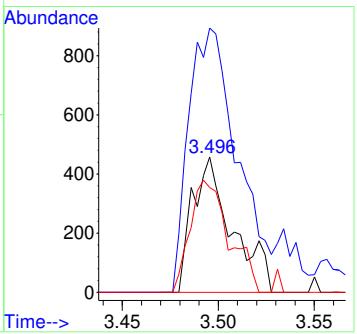


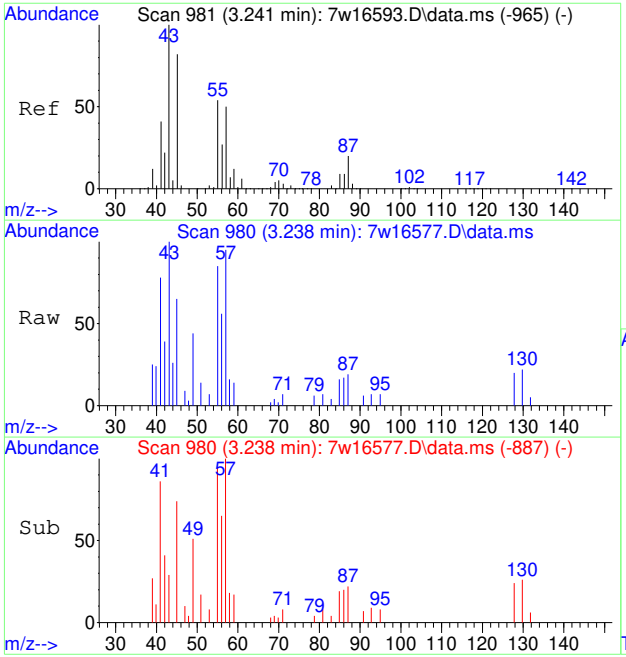


#37
TETRAHYDROFURAN
Concen: 0.11 PPBV
RT: 3.496 min Scan# 1060
Delta R.T. 0.029 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 660

Ion	Ratio	Lower	Upper
72	100		
42	239.2	153.0	284.2
71	81.4	62.7	116.5

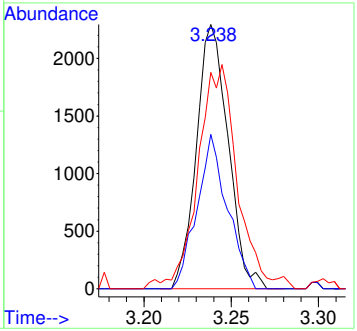


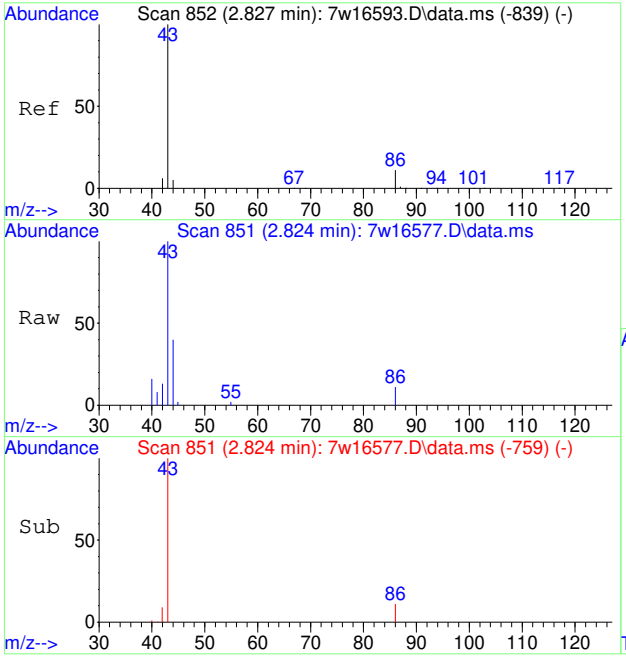


#38
HEXANE
Concen: 0.12 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 2906

Ion	Ratio	Lower	Upper
57	100		
56	55.8	37.3	69.3
41	105.2	86.7	161.1

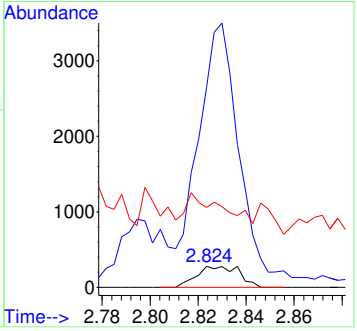


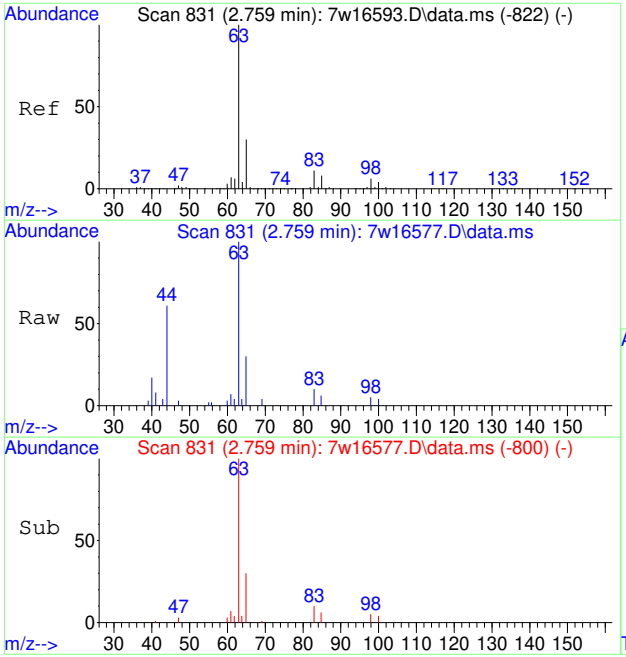


#39
VINYL ACETATE
Concen: 0.10 PPBV
RT: 2.824 min Scan# 851
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 86 Resp: 343

Ion	Ratio	Lower	Upper
86	100		
43	1525.9	667.9	1240.3#
44	241.7	32.7	60.7#

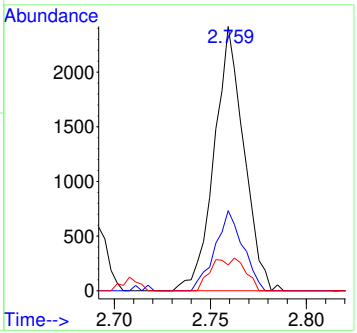


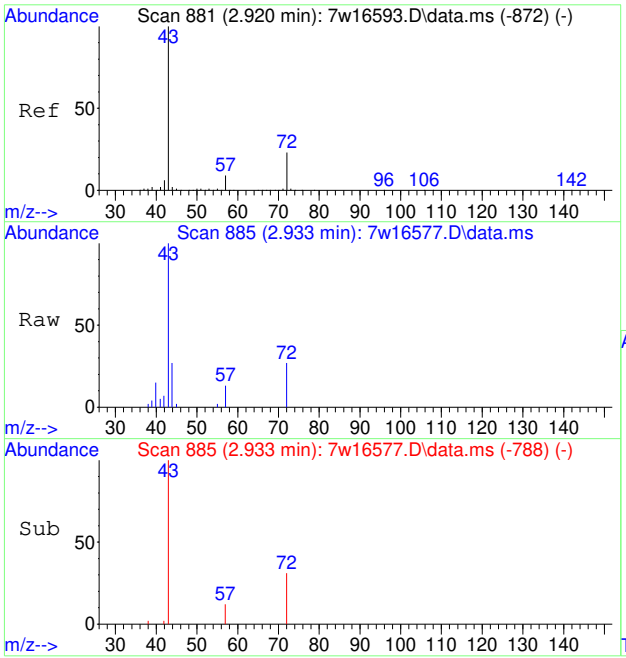


#40
1,1-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 2595

Ion	Ratio	Lower	Upper
63	100		
65	28.6	21.8	40.6
83	14.2	10.6	19.6

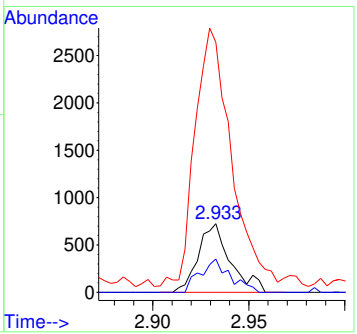


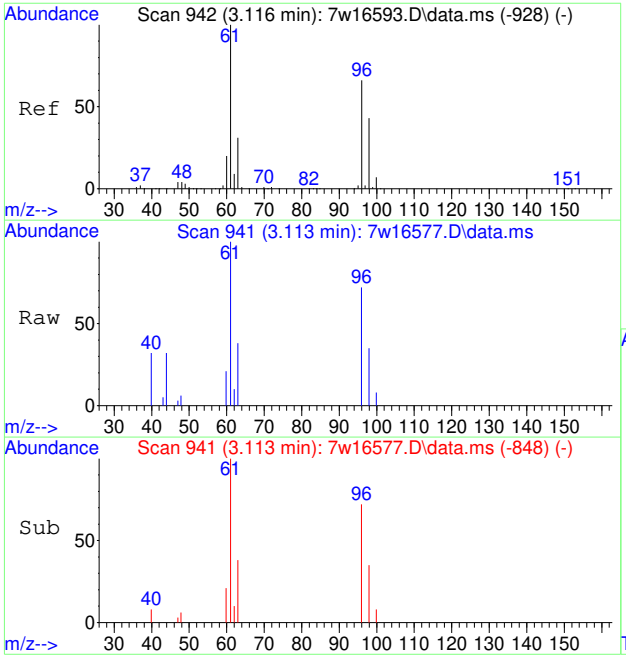


#41
METHYL ETHYL KETONE
Concen: 0.13 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 72 Resp: 844

Ion	Ratio	Lower	Upper
72	100		
57	45.5	20.3	37.7#
43	437.0	282.8	525.2

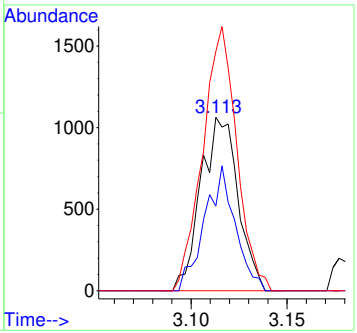


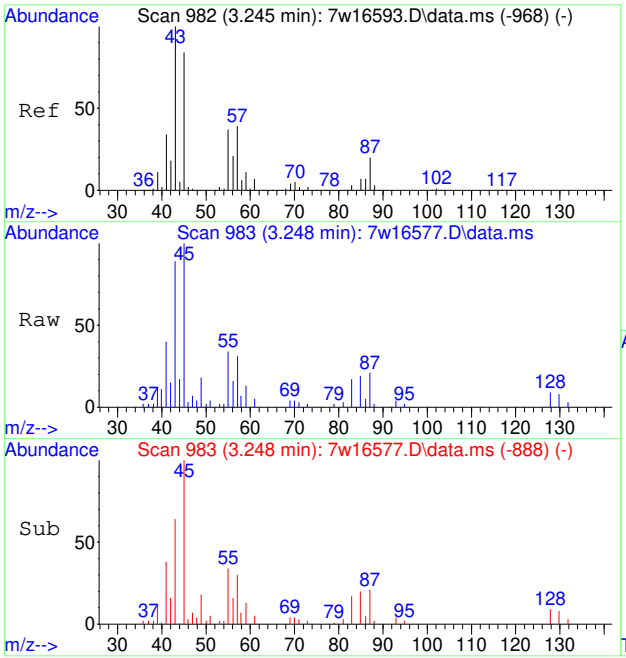


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.11 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 96 Resp: 1430

Ion	Ratio	Lower	Upper
96	100		
98	59.2	46.8	86.8
61	140.1	78.3	145.5

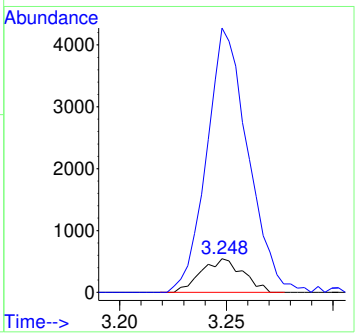


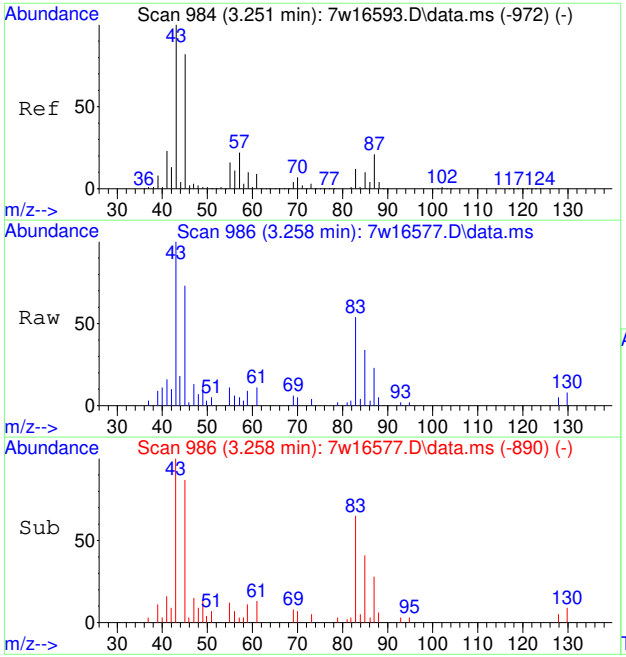


#43
DIISOPROPYL ETHER
Concen: 0.11 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 59 Resp: 742

Ion	Ratio	Lower	Upper
59	100		
45	777.4	532.1	988.1

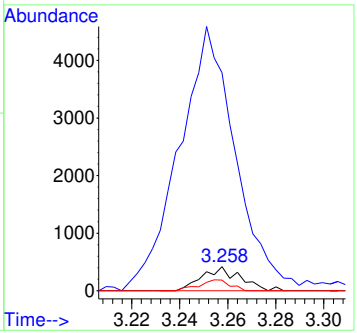


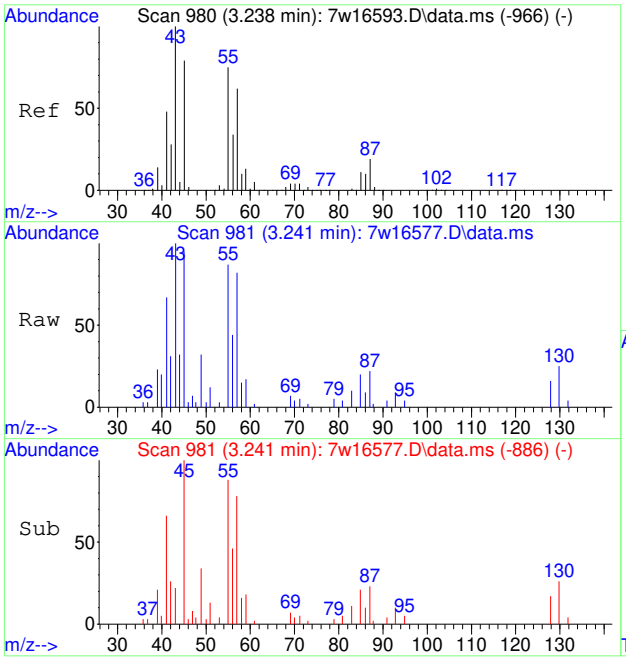


#44
ETHYL ACETATE
Concen: 0.09 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 61 Resp: 462

Ion	Ratio	Lower	Upper
61	100		
43	1690.7	1127.5	2093.9
88	36.8	36.2	67.2

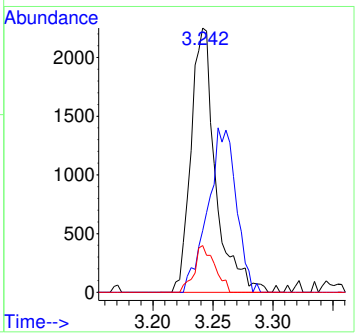


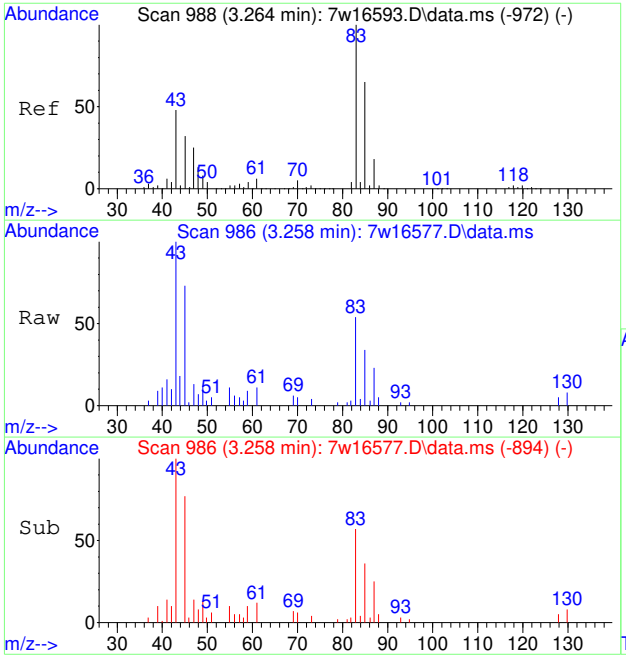


#45
METHYL ACRYLATE
Concen: 0.11 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3222

Ion	Ratio	Lower	Upper
55	100		
85	71.3	0.0	0.0#
58	14.6	9.2	17.0

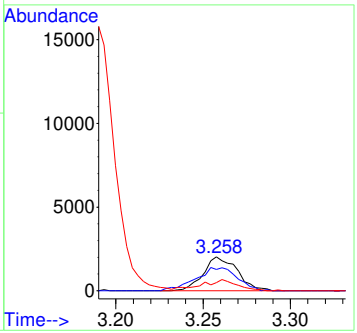


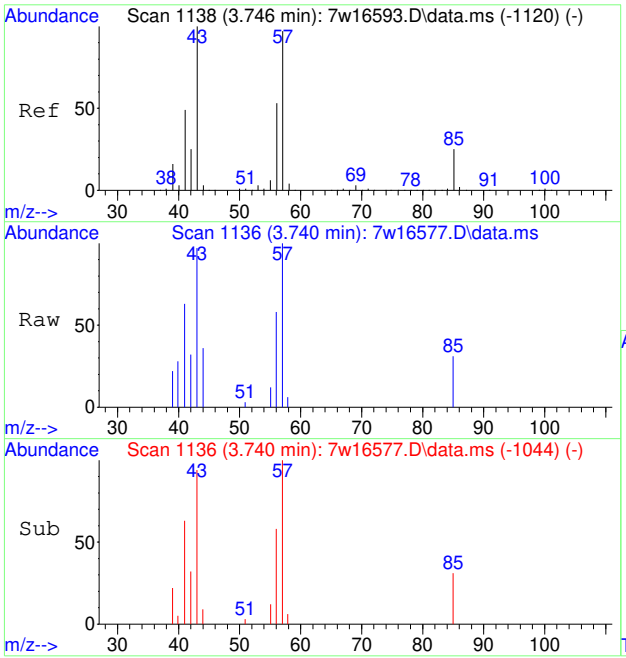


#46
CHLOROFORM
Concen: 0.10 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2745

Ion	Ratio	Lower	Upper
83	100		
85	83.6	54.6	101.4
47	35.4	17.9	33.3#

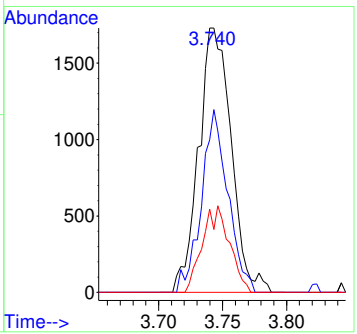


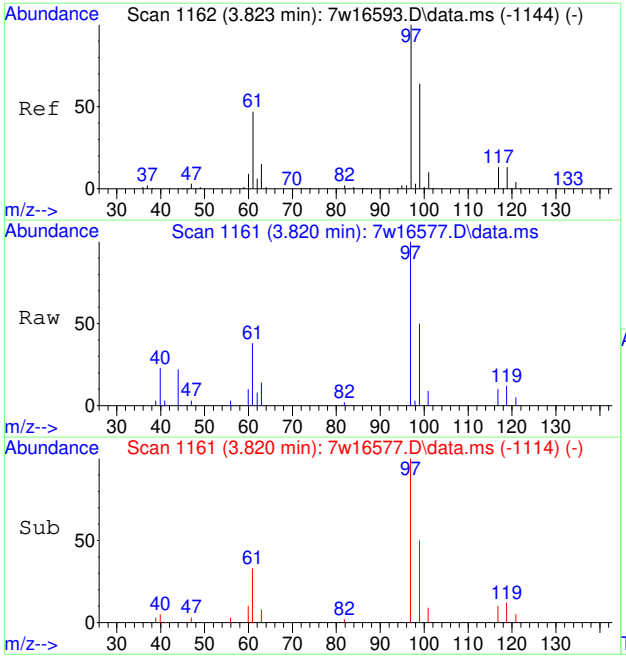


#47
2,4-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 3.740 min Scan# 1136
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 3064

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	27.2	24.1	44.7

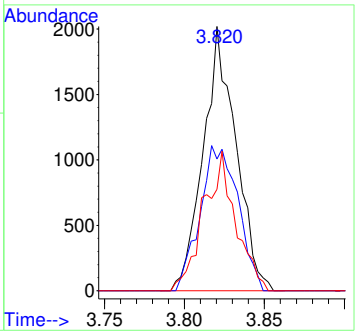


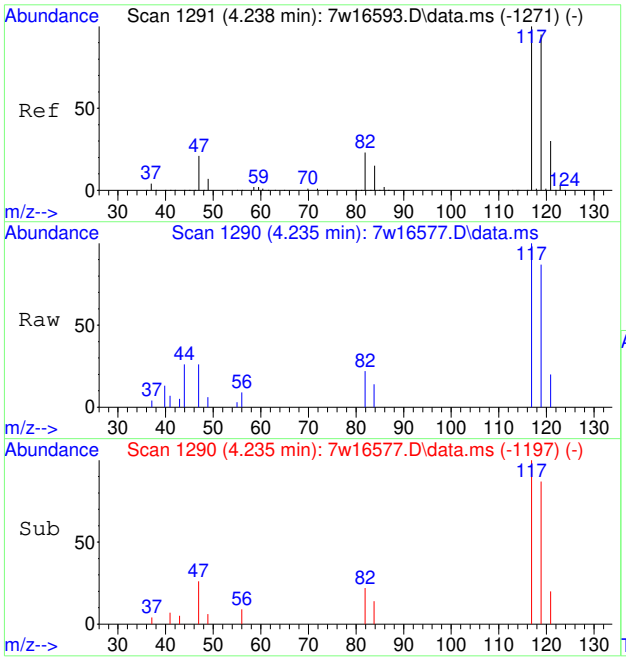


#48
1,1,1-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 97 Resp: 2869

Ion	Ratio	Lower	Upper
97	100		
99	63.8	44.9	83.5
61	51.8	28.6	53.0

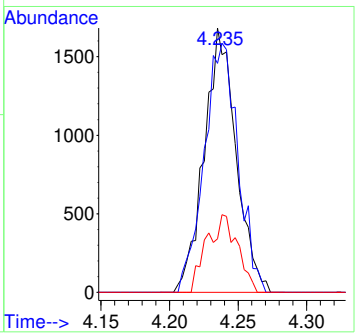


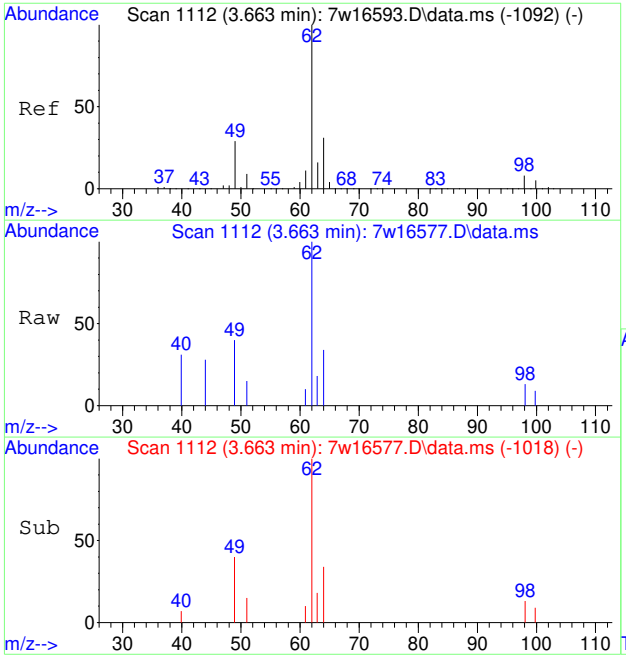


#49
CARBON TETRACHLORIDE
Concen: 0.09 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2721

Ion	Ratio	Lower	Upper
117	100		
119	100.0	68.8	127.8
121	28.2	22.2	41.2

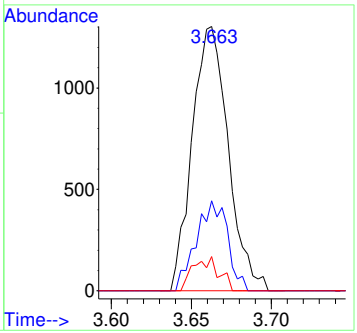


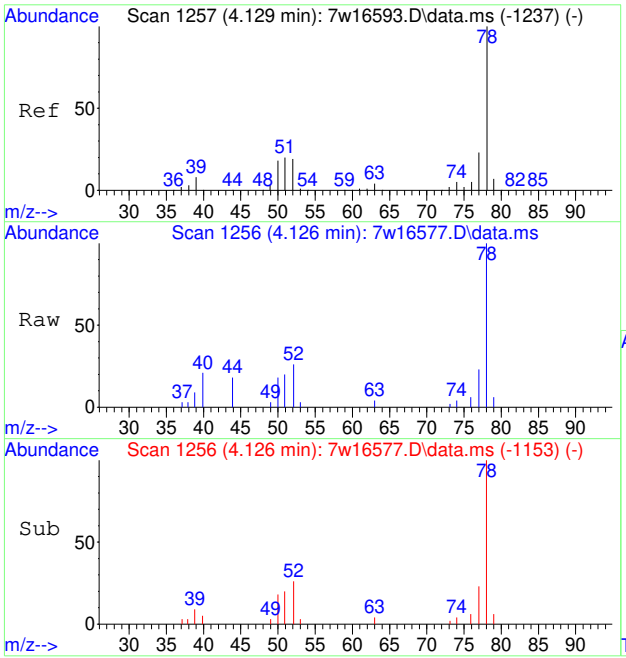


#50
1,2-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 62 Resp: 2043

Ion	Ratio	Lower	Upper
62	100		
64	29.5	22.5	41.7
98	9.2	6.8	12.6

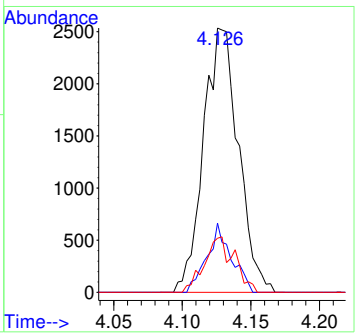


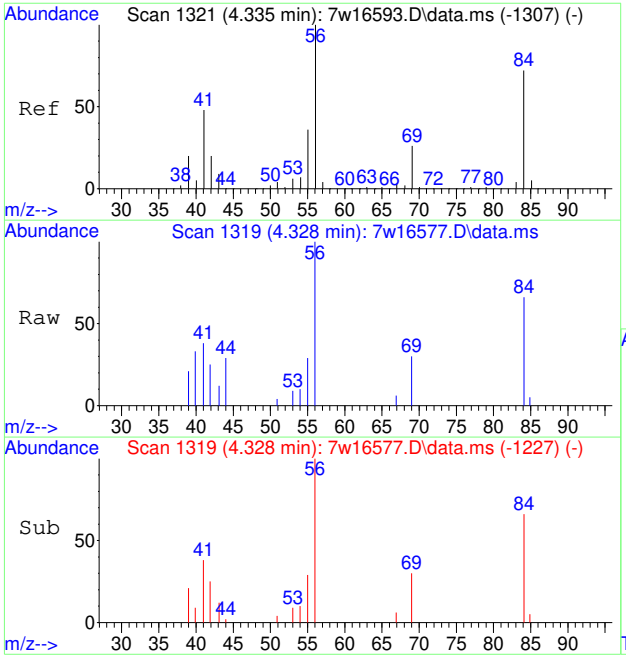


#51
BENZENE
Concen: 0.12 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 78 Resp: 4491

Ion	Ratio	Lower	Upper
78	100		
52	18.1	0.0	44.6
51	18.1	0.0	47.3

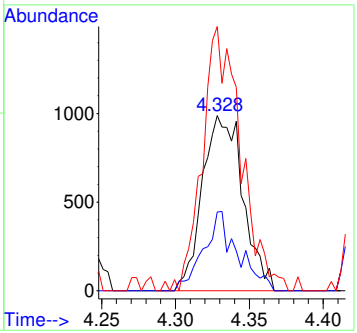


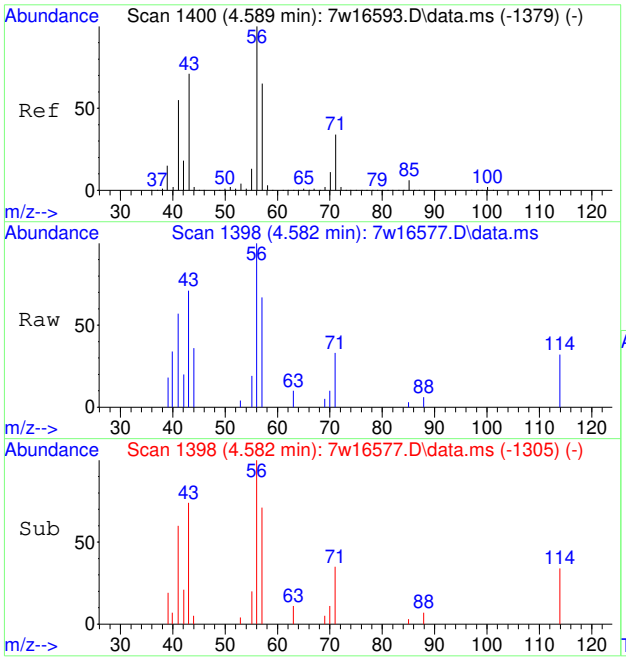


#53
CYCLOHEXANE
Concen: 0.11 PPBV
RT: 4.328 min Scan# 1319
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 84 Resp: 1883

Ion	Ratio	Lower	Upper
84	100		
69	37.8	22.3	41.5
56	143.3	70.2	130.4#

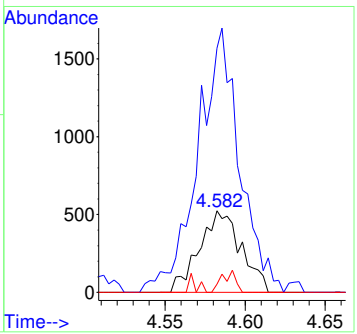


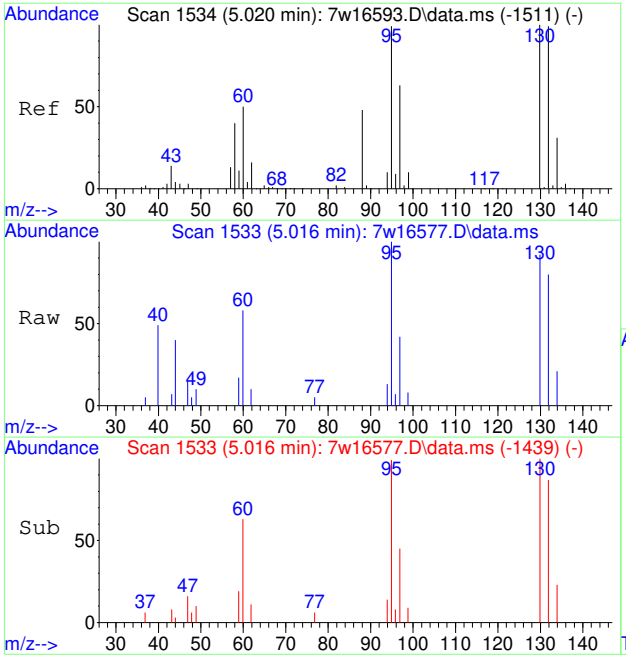


#54
2,3-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 71 Resp: 954

Ion	Ratio	Lower	Upper
71	100		
56	327.5	171.4	318.4#
85	8.9	12.6	23.4#

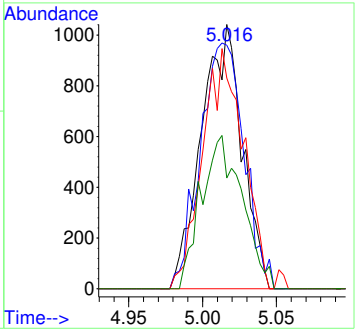


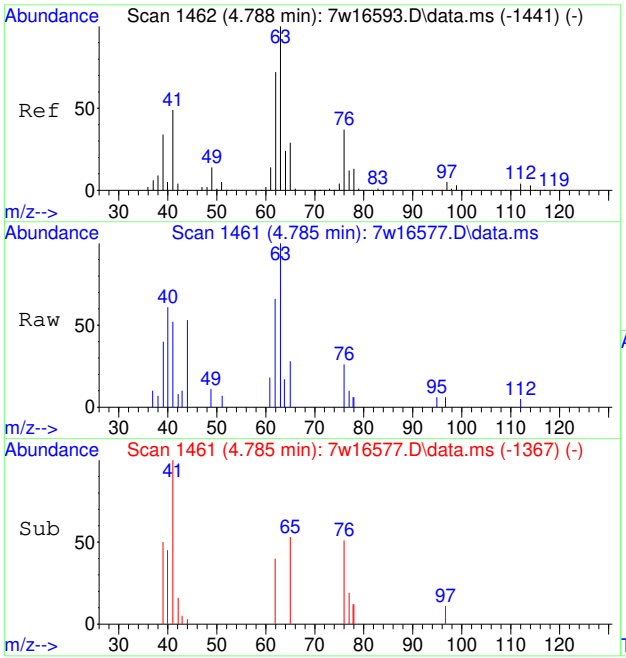


#55
TRICHLOROETHENE
Concen: 0.11 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 95 Resp: 1997

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	92.2	79.4	147.4
97	58.3	45.0	83.6

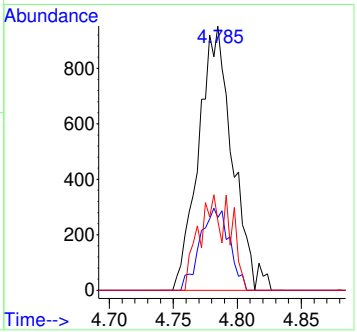


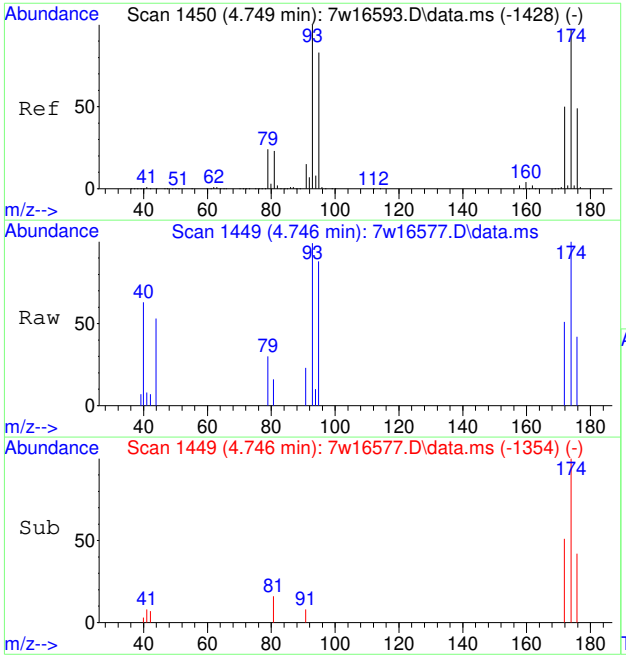


#56
1,2-DICHLOROPROPANE
Concen: 0.11 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 63 Resp: 1753

Ion	Ratio	Lower	Upper
63	100		
65	26.8	22.6	42.0
76	32.9	31.8	59.0

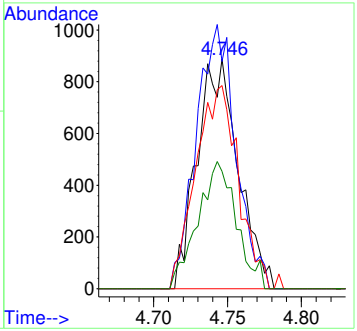


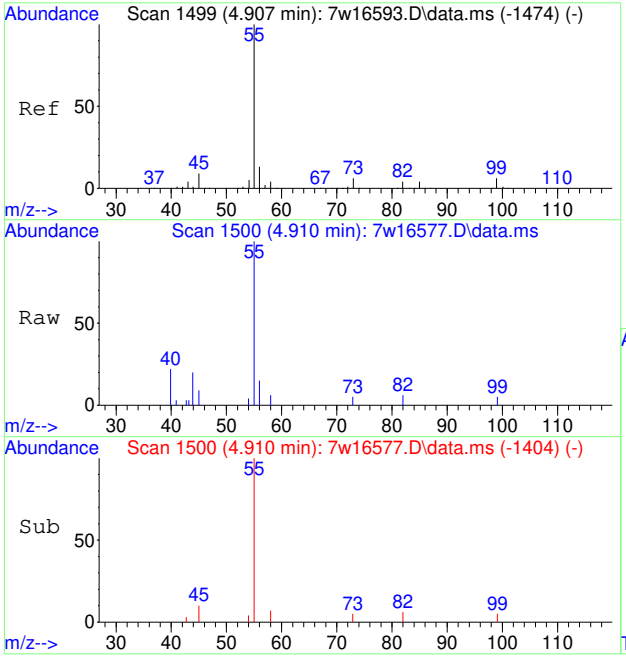


#57
DIBROMOMETHANE
Concen: 0.11 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:174 Resp: 1723

Ion	Ratio	Lower	Upper
174	100		
93	110.2	67.3	125.1
95	91.9	56.8	105.6
172	51.7	36.3	67.5

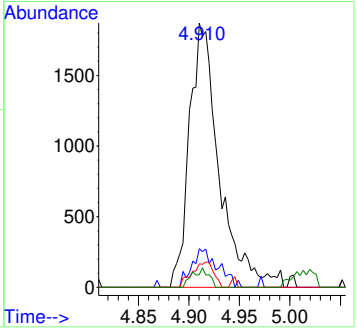


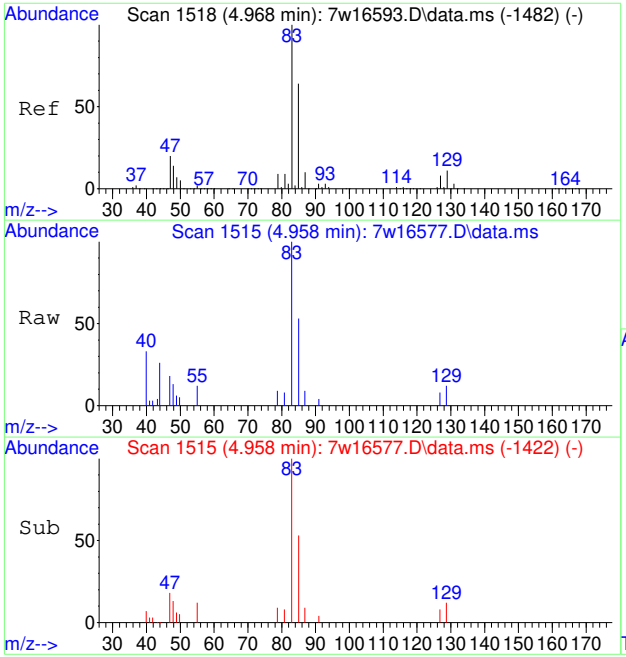


#58
ETHYL ACRYLATE
Concen: 0.10 PPBV
RT: 4.910 min Scan# 1500
Delta R.T. 0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 55 Resp: 3841

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	7.6	6.6	12.2
99	4.0	6.2	11.6#

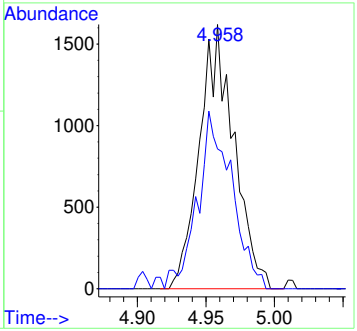


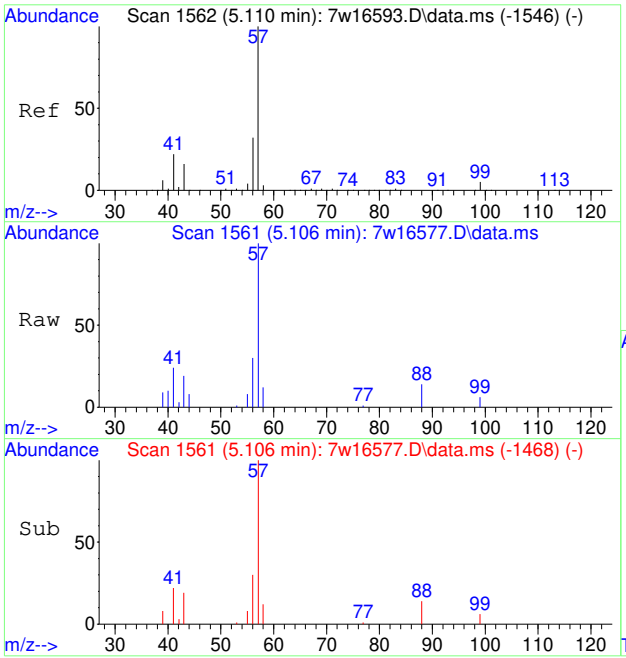


#59
BROMODICHLOROMETHANE
Concen: 0.09 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 2818

Ion	Ratio	Lower	Upper
83	100		
85	67.7	44.9	83.5

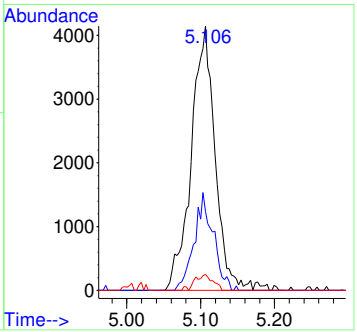


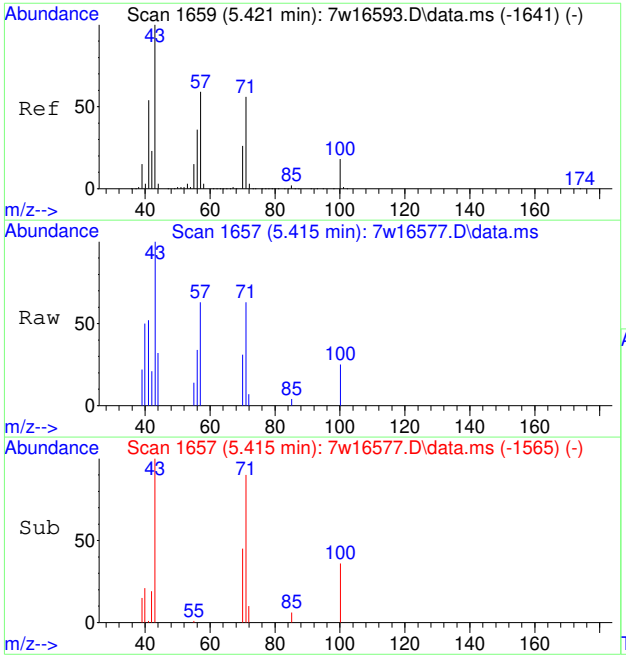


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.12 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 57 Resp: 9397

Ion	Ratio	Lower	Upper
57	100		
56	29.2	24.4	45.2
99	4.5	5.2	9.6#

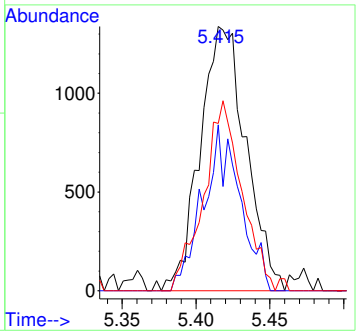


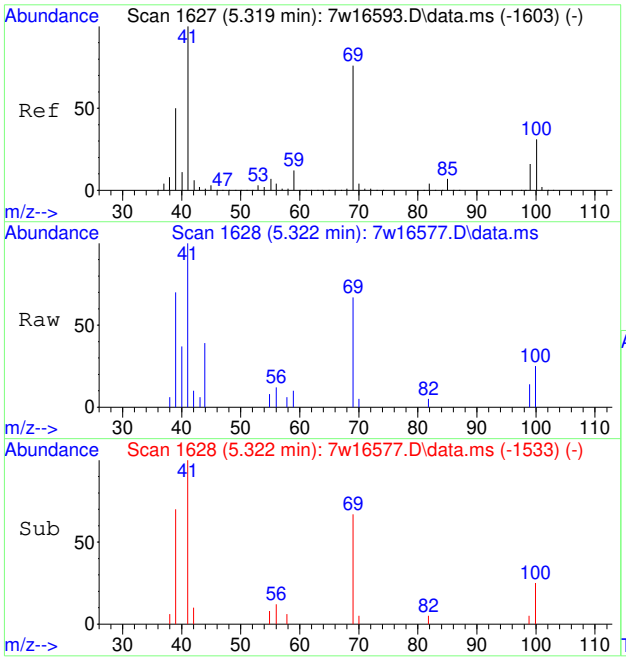


#62
HEPTANE
Concen: 0.11 PPBV
RT: 5.415 min Scan# 1657
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 2892

Ion	Ratio	Lower	Upper
43	100		
71	50.4	45.0	83.6
57	60.8	37.2	69.0

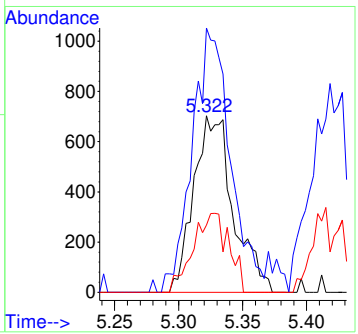


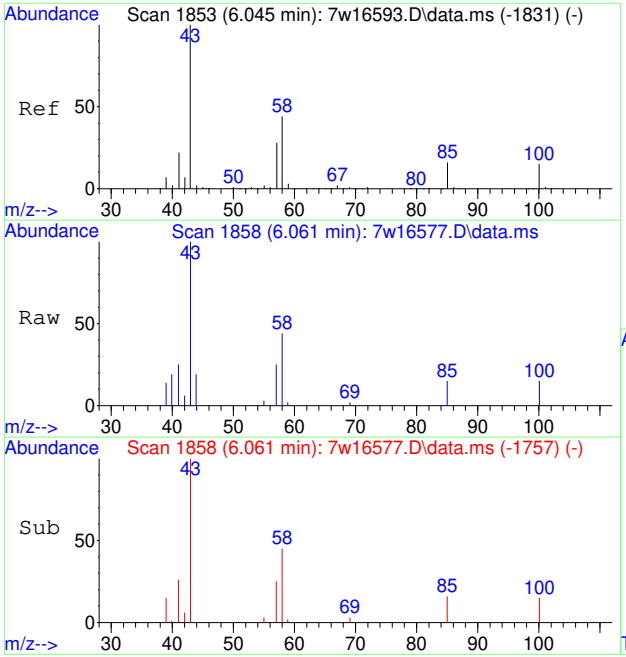


#63
METHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 1510

Ion	Ratio	Lower	Upper
69	100		
41	151.7	84.3	156.5
100	40.5	30.8	57.2

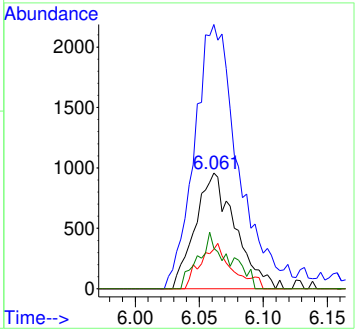


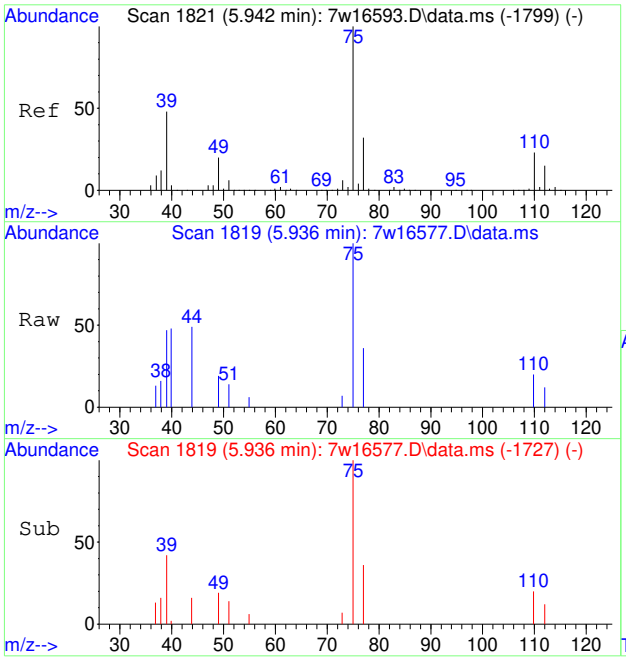


#64
METHYL ISOBUTYL KETONE
Concen: 0.14 PPBV
RT: 6.061 min Scan# 1858
Delta R.T. 0.026 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 2096

Ion	Ratio	Lower	Upper
58	100		
43	258.2	193.8	360.0
100	30.6	32.8	60.8#
85	37.5	33.3	61.9

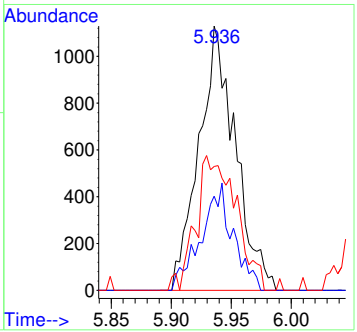


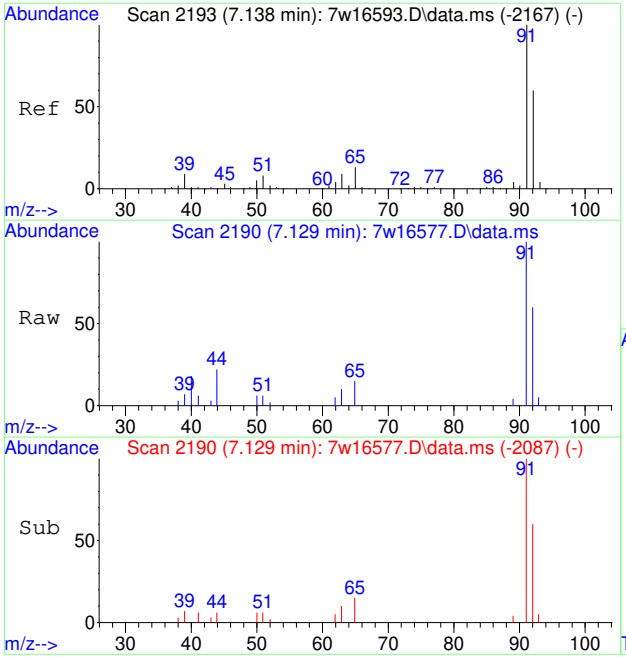


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.09 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2385

Ion	Ratio	Lower	Upper
75	100		
77	35.4	22.0	40.8
39	55.9	38.5	71.5

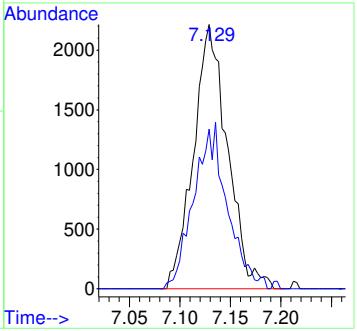


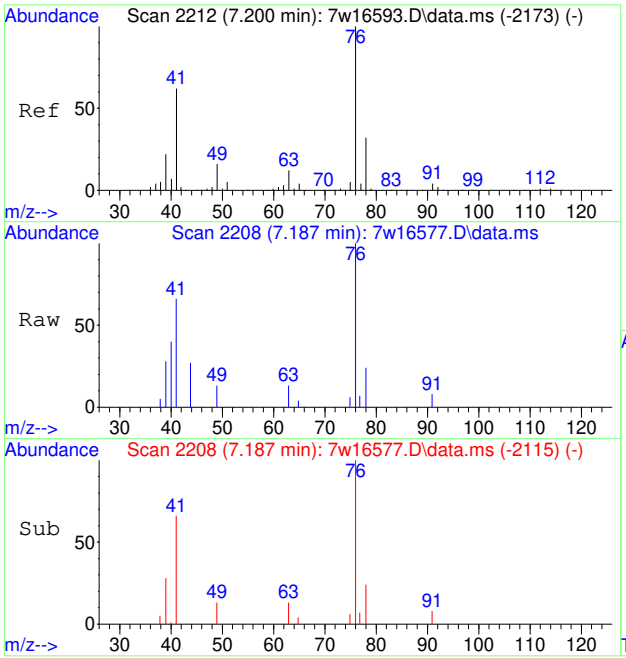


#66
TOLUENE
Concen: 0.11 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5187

Ion	Ratio	Lower	Upper
91	100		
92	62.0	28.1	88.1

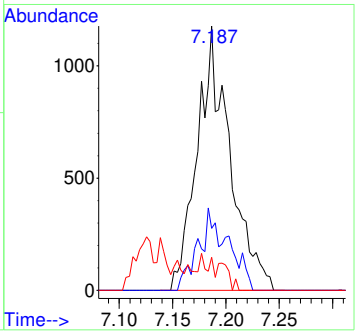


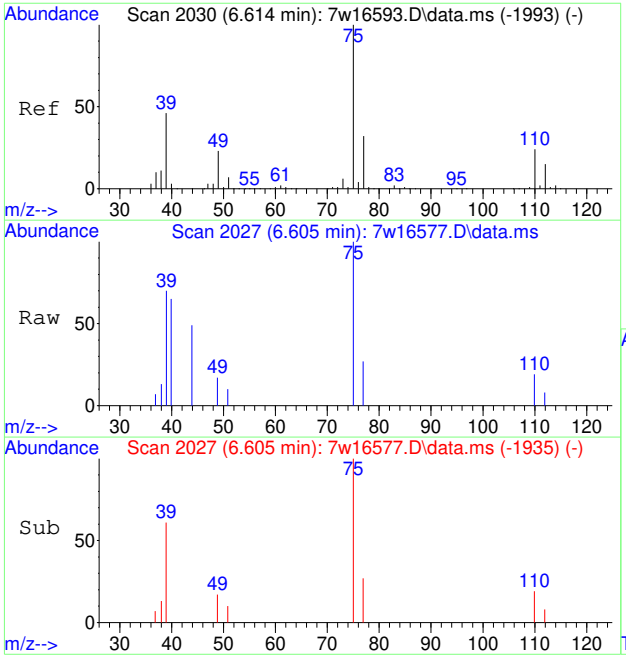


#67
1,3-DICHLOROPROPANE
Concen: 0.10 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 76 Resp: 2497

Ion	Ratio	Lower	Upper
76	100		
78	28.4	22.1	41.1
63	7.7	8.0	14.8#

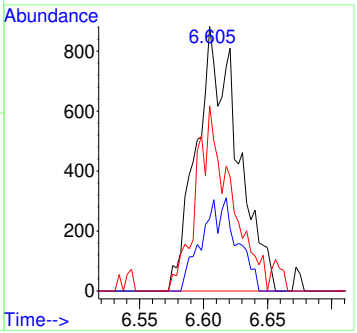


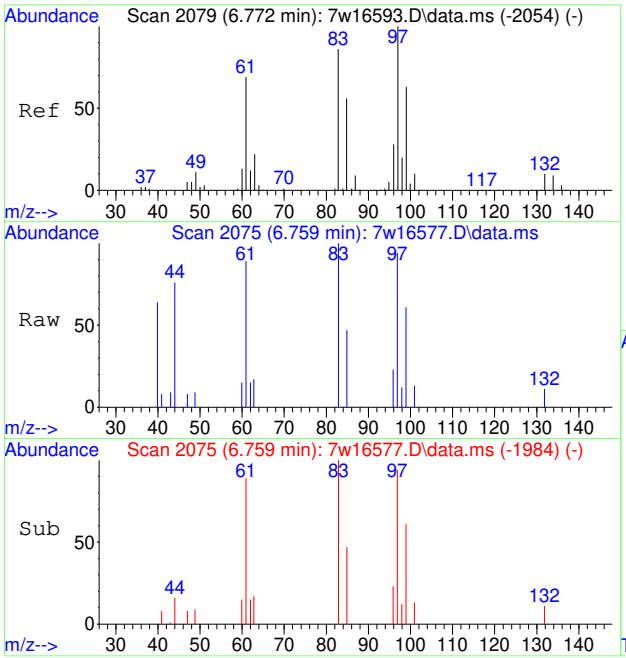


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.08 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 1972

Ion	Ratio	Lower	Upper
75	100		
77	30.0	22.5	41.7
39	59.3	37.2	69.0

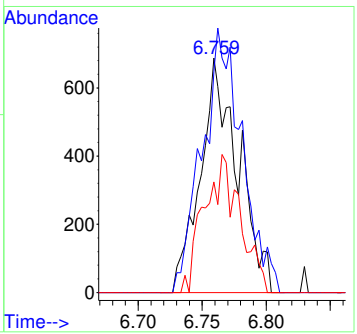


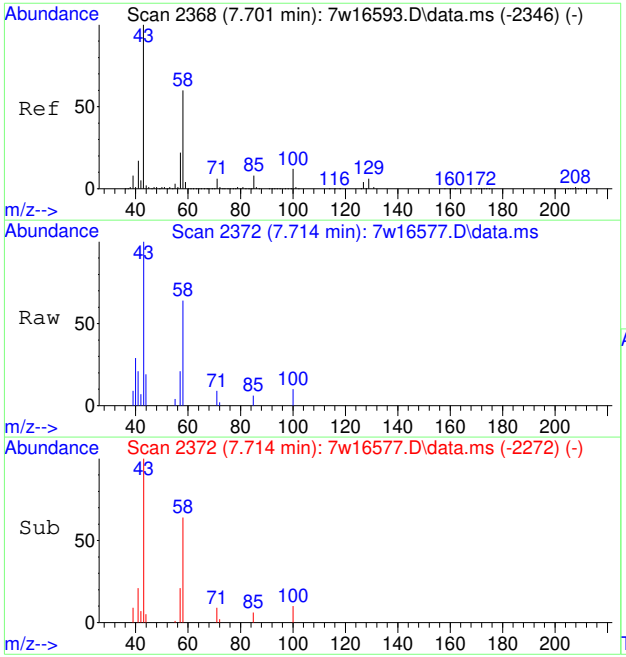


#69
1,1,2-TRICHLOROETHANE
Concen: 0.10 PPBV
RT: 6.759 min Scan# 2075
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 1417

Ion	Ratio	Lower	Upper
83	100		
97	118.6	86.7	160.9
85	55.3	45.5	84.5

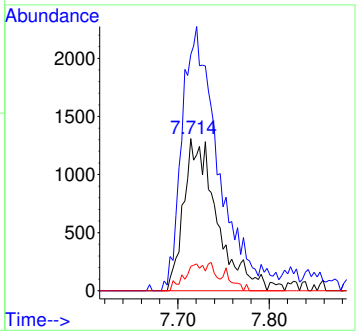


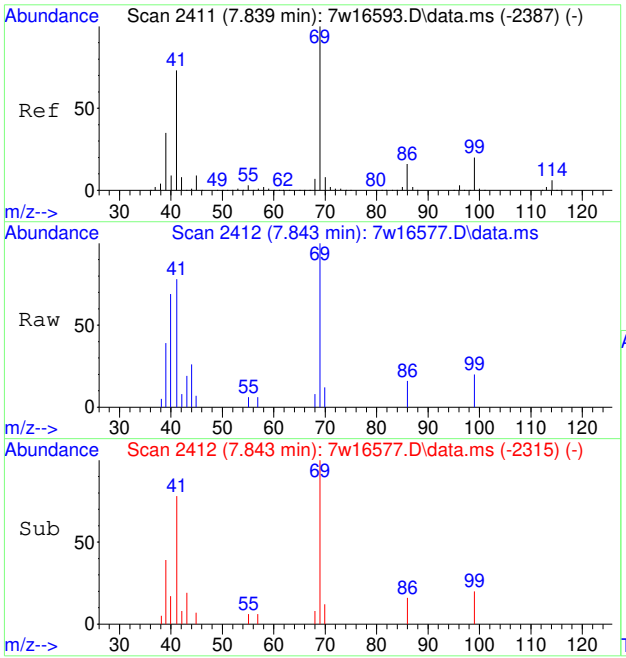


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.714 min Scan# 2372
Delta R.T. 0.023 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 58 Resp: 3348

Ion	Ratio	Lower	Upper
58	100		
43	190.0	141.7	263.3
100	0.0	18.9	35.1#

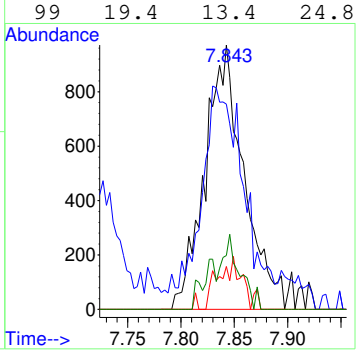


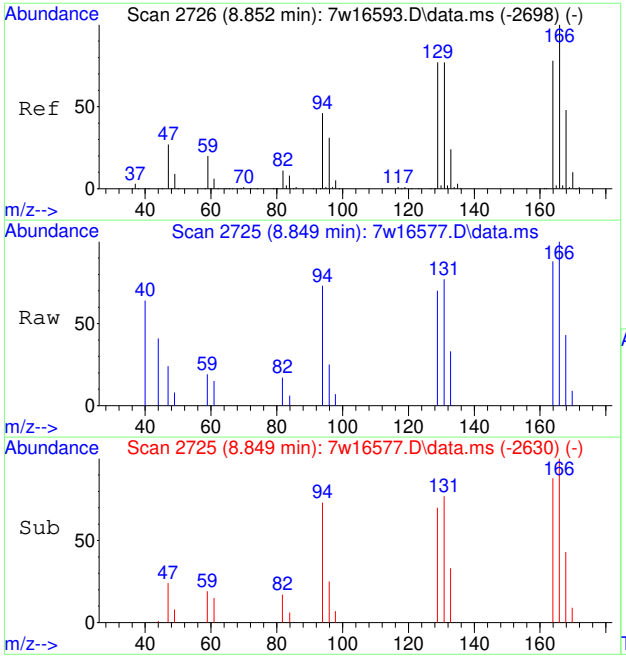


#71
ETHYL METHACRYLATE
Concen: 0.10 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 69 Resp: 2476

Ion	Ratio	Lower	Upper
69	100		
41	101.2	49.3	91.6#
86	12.9	11.6	21.6
99	19.4	13.4	24.8

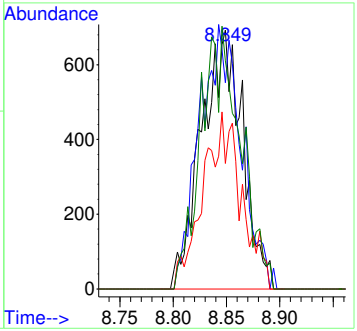


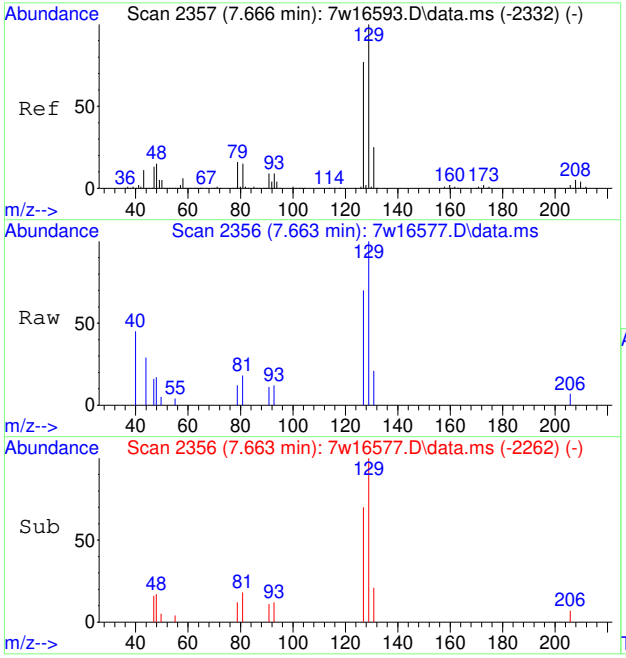


#72
TETRACHLOROETHENE
Concen: 0.11 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:164 Resp: 1845

Ion	Ratio	Lower	Upper
164	100		
129	103.4	69.7	129.5
168	63.9	43.4	80.6
131	98.6	67.1	124.5

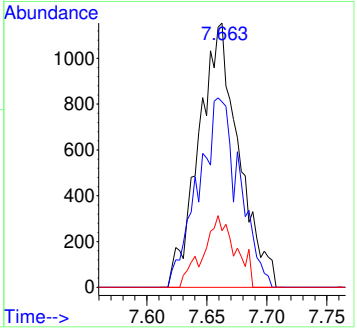


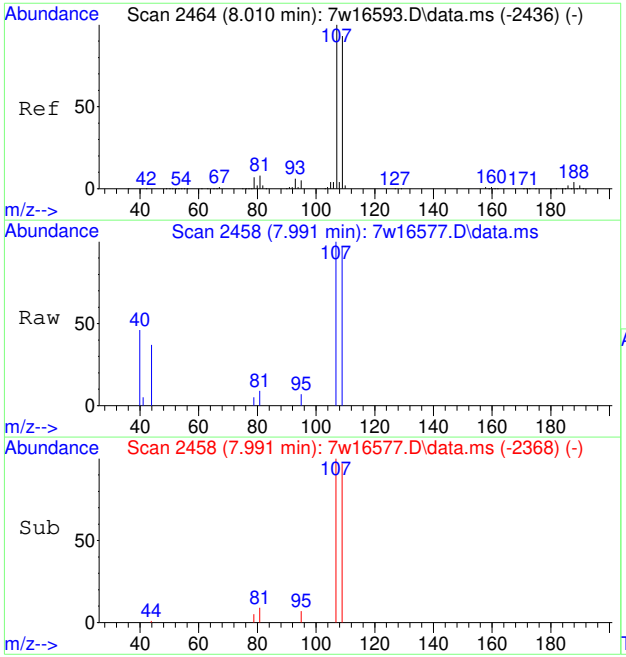


#73
DIBROMOCHLOROMETHANE
Concen: 0.09 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:129 Resp: 2664

Ion	Ratio	Lower	Upper
129	100		
127	73.7	53.0	98.4
131	21.8	16.9	31.3

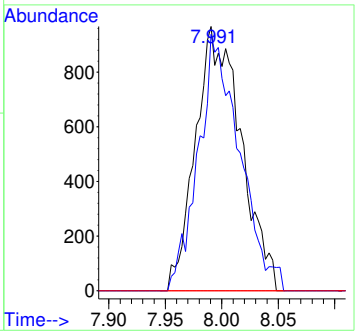


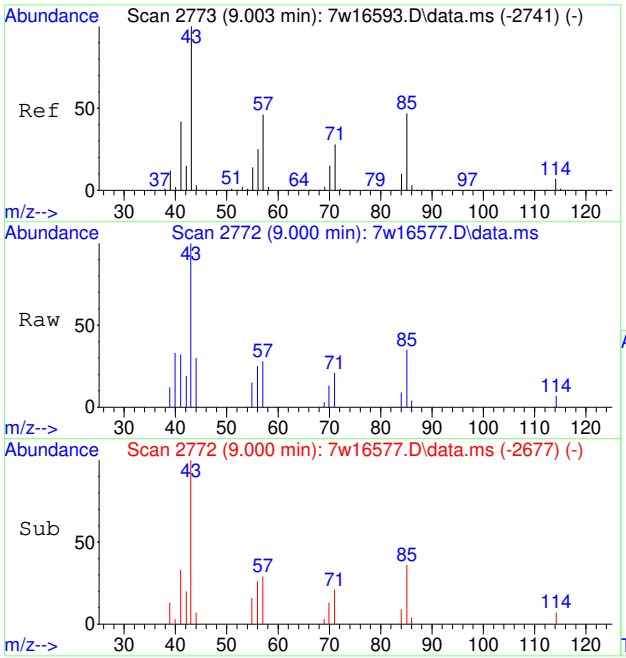


#74
1,2-DIBROMOETHANE
Concen: 0.11 PPBV
RT: 7.991 min Scan# 2458
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:107 Resp: 2697

Ion	Ratio	Lower	Upper
107	100		
109	88.3	65.7	122.1
188	0.0	2.4	4.4#

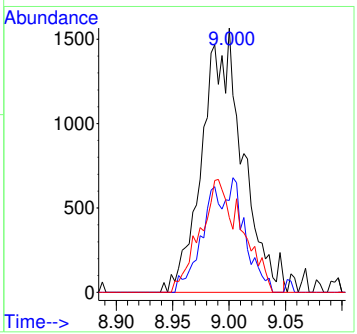


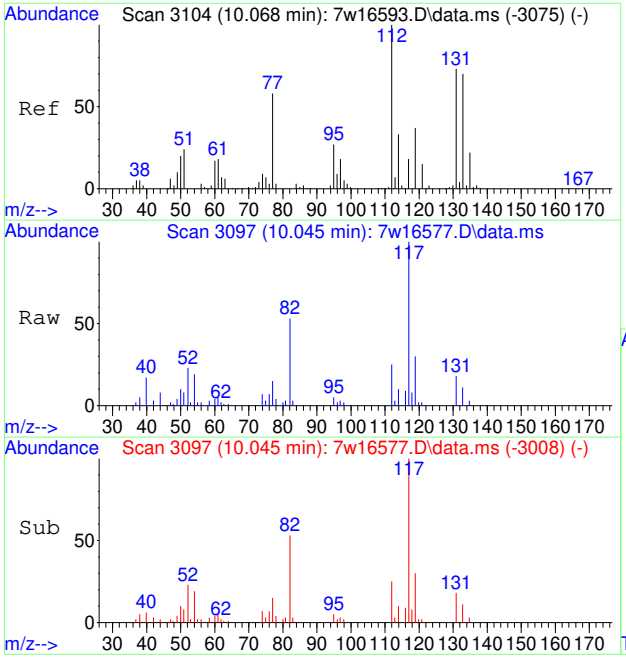


#75
OCTANE
Concen: 0.11 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
85	42.0	36.5	67.9
57	44.2	27.6	51.2

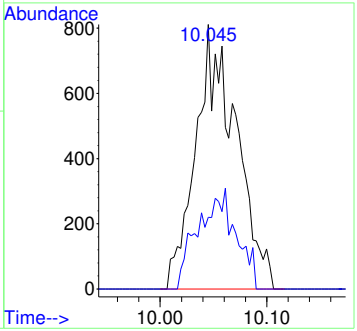


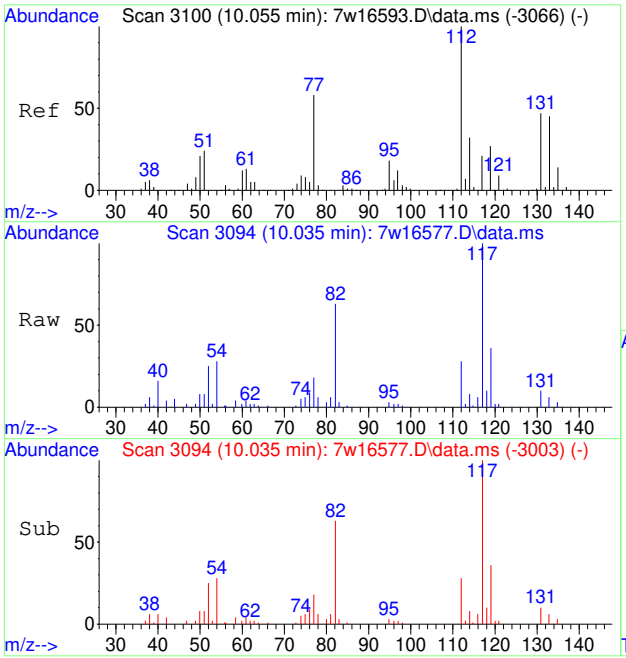


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:131 Resp: 2123

Ion	Ratio	Lower	Upper
131	100		
95	35.4	23.7	43.9

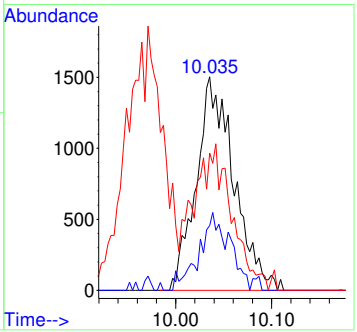


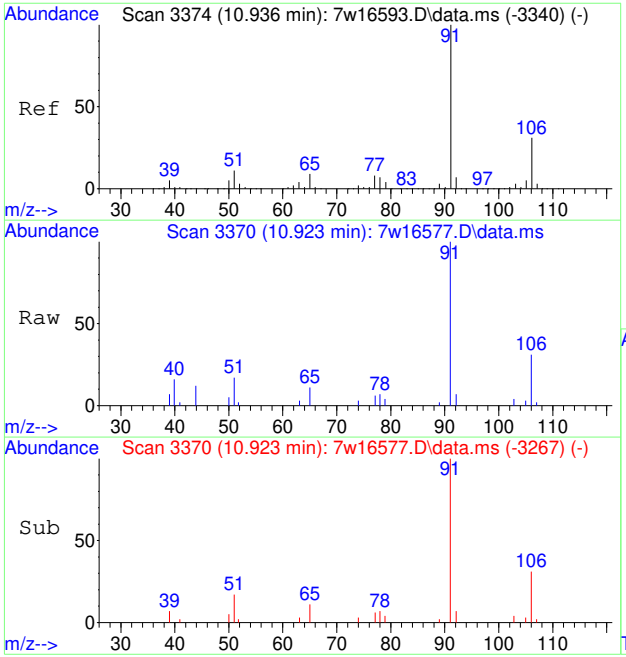


#78
CHLOROBENZENE
Concen: 0.11 PPBV
RT: 10.035 min Scan# 3094
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:112 Resp: 4090

Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.9	42.5
77	71.1	34.4	63.8#

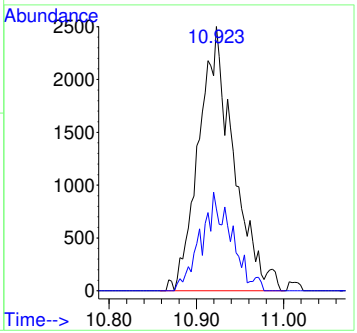


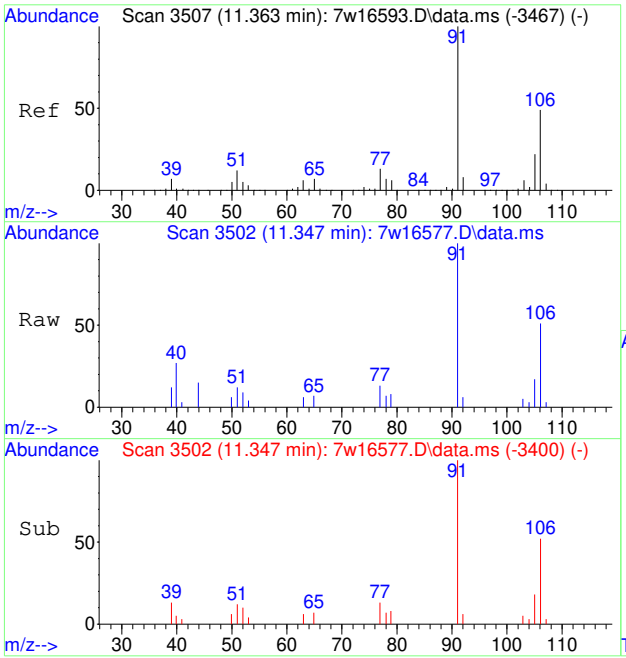


#79
ETHYLBENZENE
Concen: 0.11 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 6930

Ion	Ratio	Lower	Upper
91	100		
106	32.8	2.8	62.8

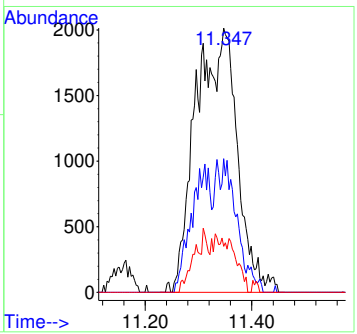


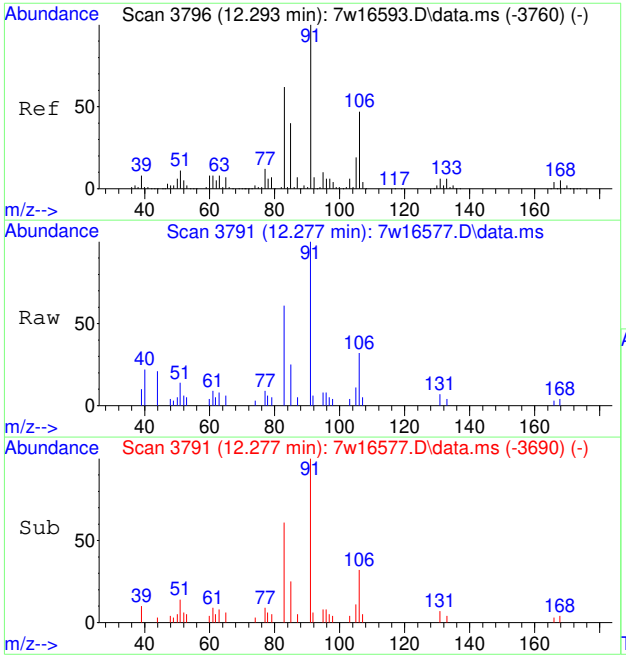


#80
M,P-XYLENE
Concen: 0.22 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 10889

Ion	Ratio	Lower	Upper
91	100		
106	26.3	0.0	58.7
105	0.0	0.0	43.2

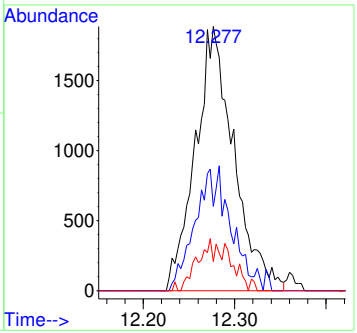


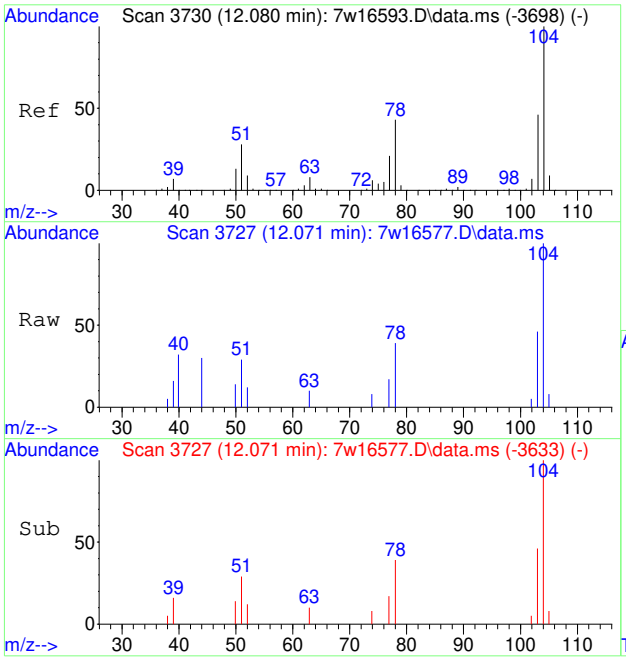


#81
O-XYLENE
Concen: 0.11 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 5536

Ion	Ratio	Lower	Upper
91	100		
106	31.9	34.1	63.3#
105	11.1	14.6	27.2#

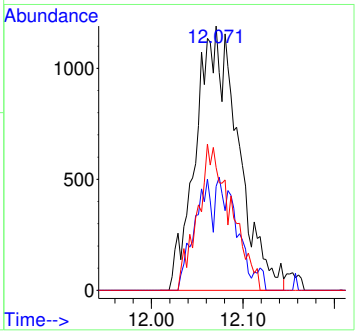


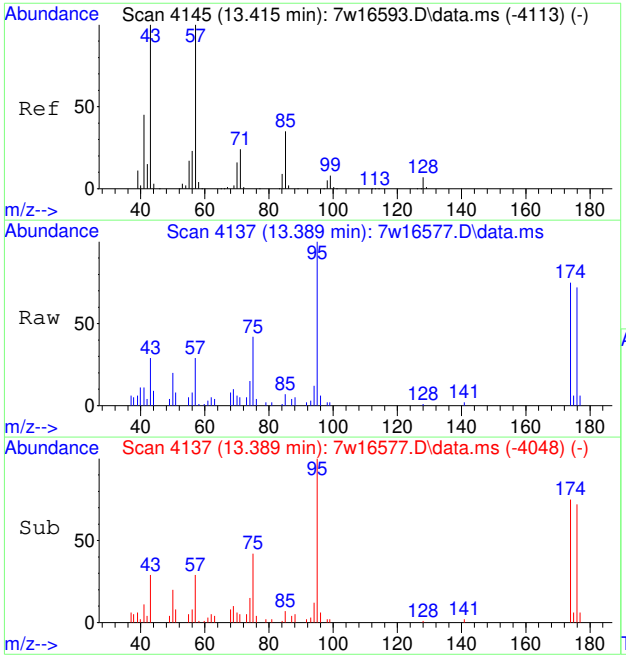


#82
STYRENE
Concen: 0.10 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:104 Resp: 3856

Ion	Ratio	Lower	Upper
104	100		
78	22.0	25.3	46.9#
103	0.0	33.2	61.7#

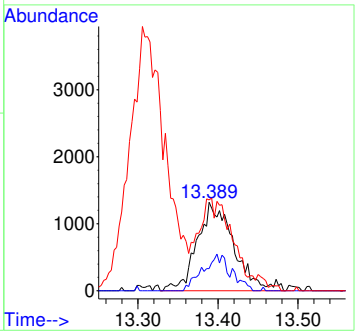


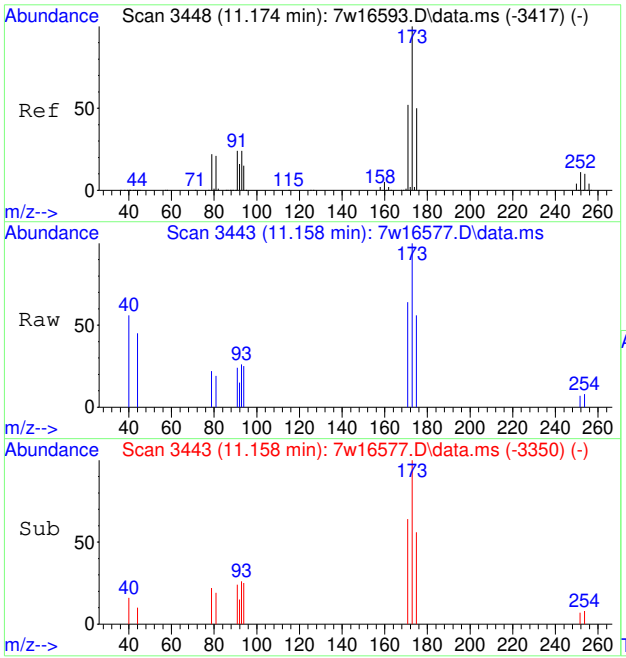


#83
NONANE
Concen: 0.11 PPBV
RT: 13.389 min Scan# 4137
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 43 Resp: 4193

Ion	Ratio	Lower	Upper
43	100		
85	31.9	27.6	51.2
57	100.3	56.4	104.7

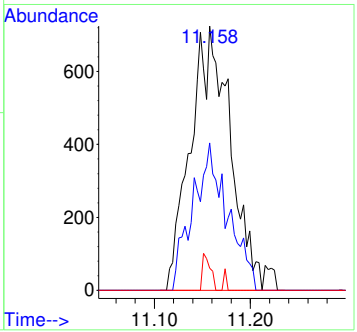


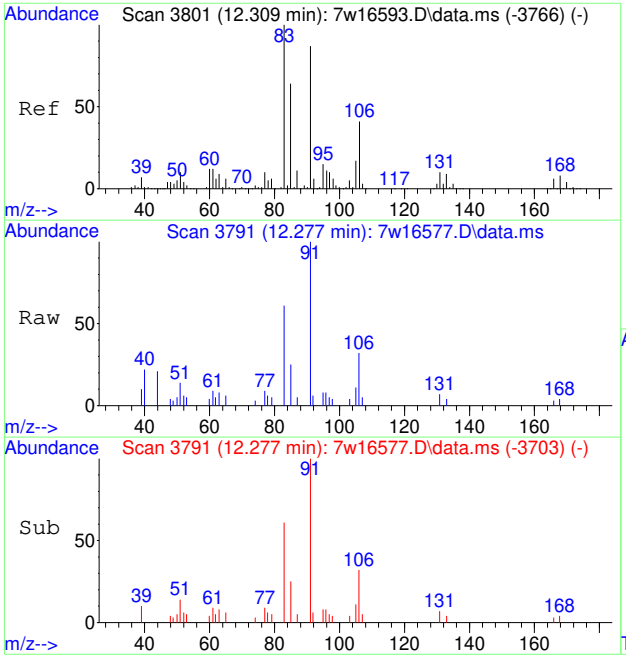


#84
BROMOFORM
Concen: 0.08 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:173 Resp: 2131

Ion	Ratio	Lower	Upper
173	100		
175	47.8	33.0	61.4
254	2.7	5.9	10.9#

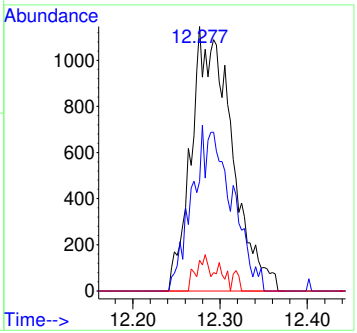


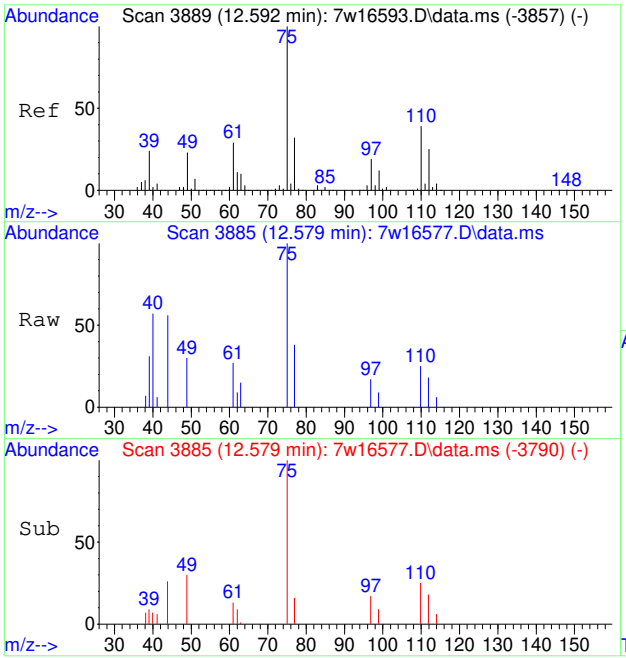


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.10 PPBV
RT: 12.277 min Scan# 3791
Delta R.T. -0.016 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 83 Resp: 3686

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	6.1	8.0	14.8#

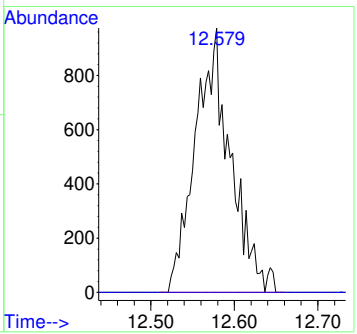


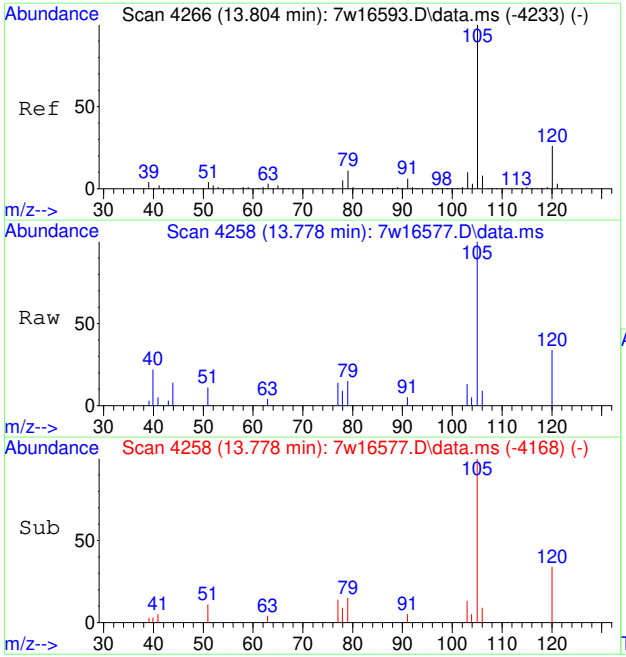


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.10 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 75 Resp: 2860

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

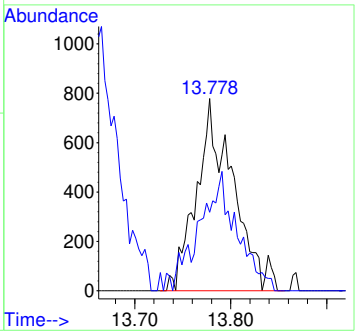


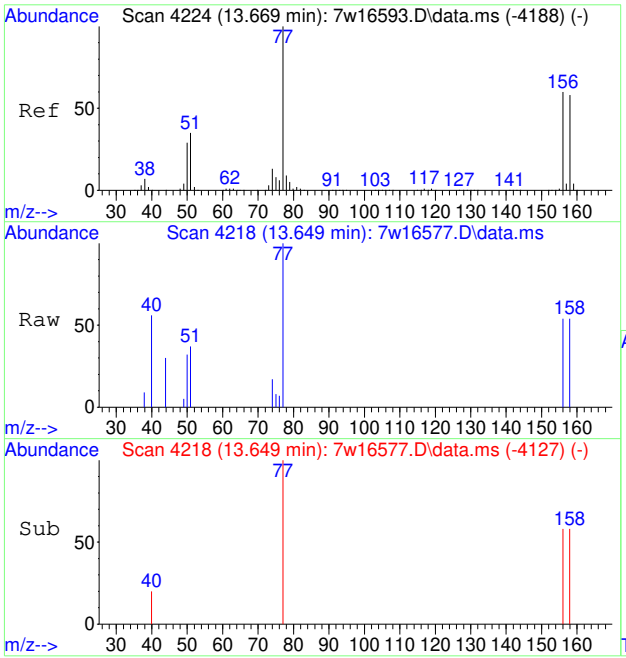


#88
ISOPROPYLBENZENE
Concen: 0.11 PPBV
RT: 13.778 min Scan# 4258
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 2075

Ion	Ratio	Lower	Upper
120	100		
77	64.6	36.0	67.0

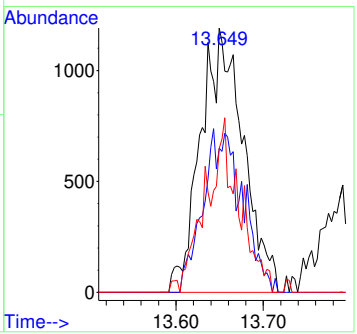


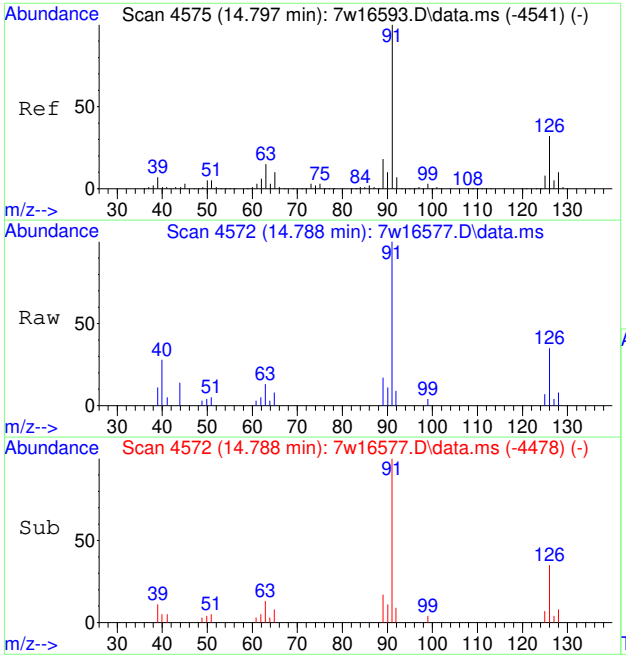


#89
BROMOBENZENE
Concen: 0.11 PPBV
RT: 13.649 min Scan# 4218
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 77 Resp: 4058

Ion	Ratio	Lower	Upper
77	100		
156	56.9	57.9	107.5#
158	51.5	55.7	103.5#

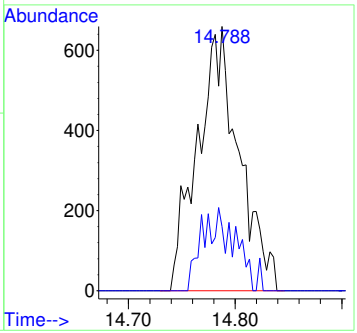


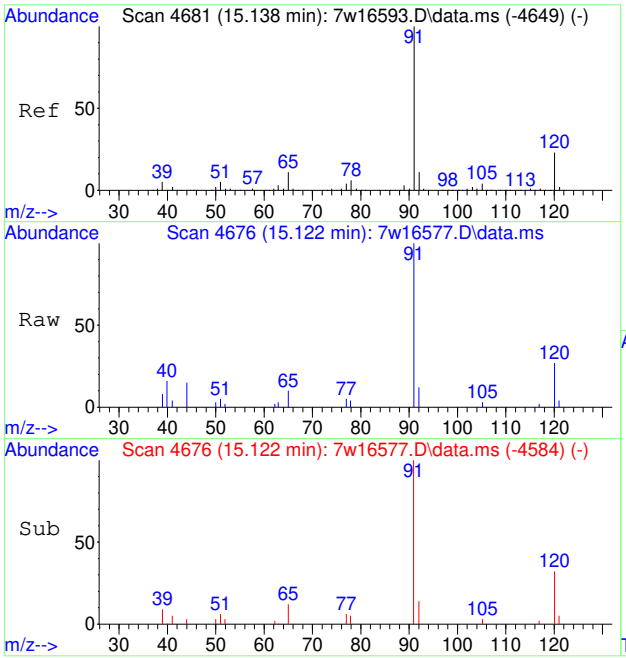


#90
2-CHLOROTOLUENE
Concen: 0.10 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:126 Resp: 1780

Ion	Ratio	Lower	Upper
126	100		
128	10.4	22.7	42.1#

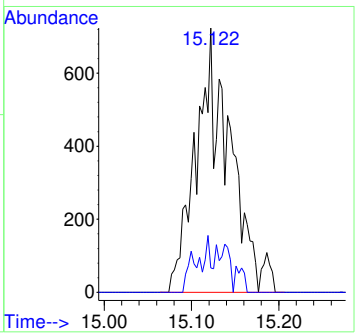


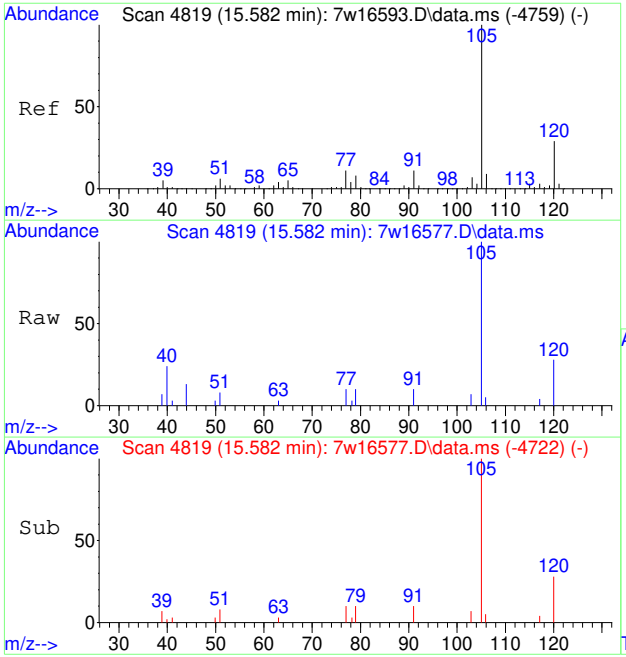


#91
N-PROPYLBENZENE
Concen: 0.10 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:120 Resp: 1971

Ion	Ratio	Lower	Upper
120	100		
105	17.7	10.6	19.6

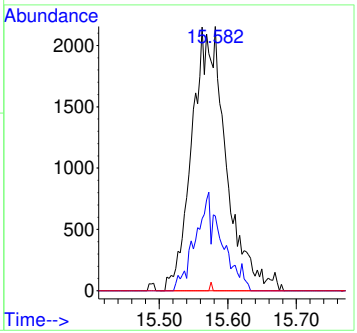


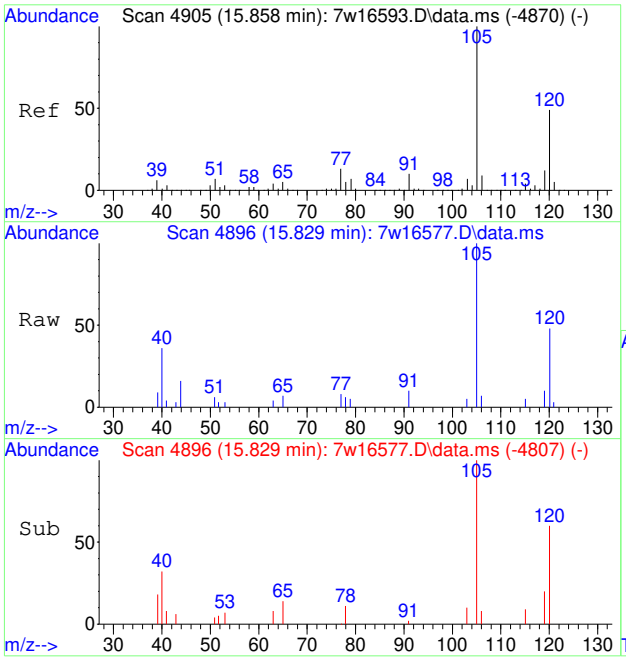


#92
4-ETHYLTOLUENE
Concen: 0.10 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 7463

Ion	Ratio	Lower	Upper
105	100		
120	28.8	21.8	40.4
119	0.0	1.7	3.1#

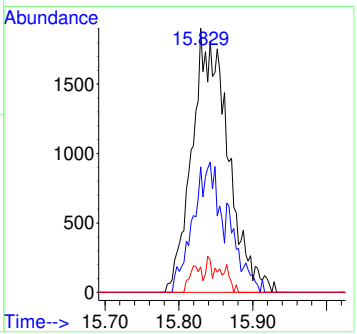


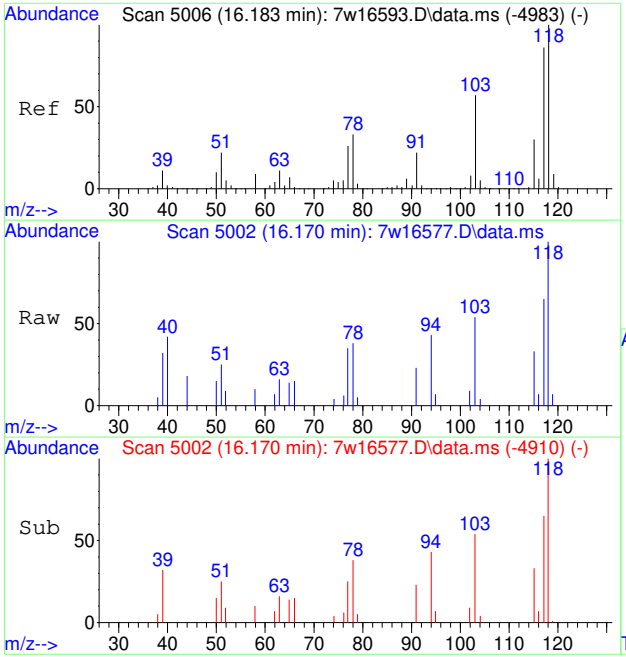


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 15.829 min Scan# 4896
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6383

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.2	69.2#
91	3.4	7.5	13.9#

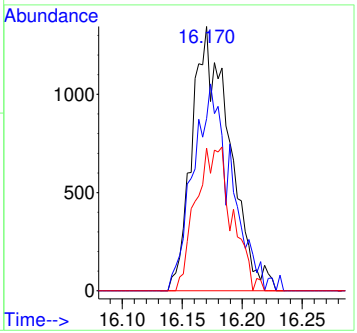


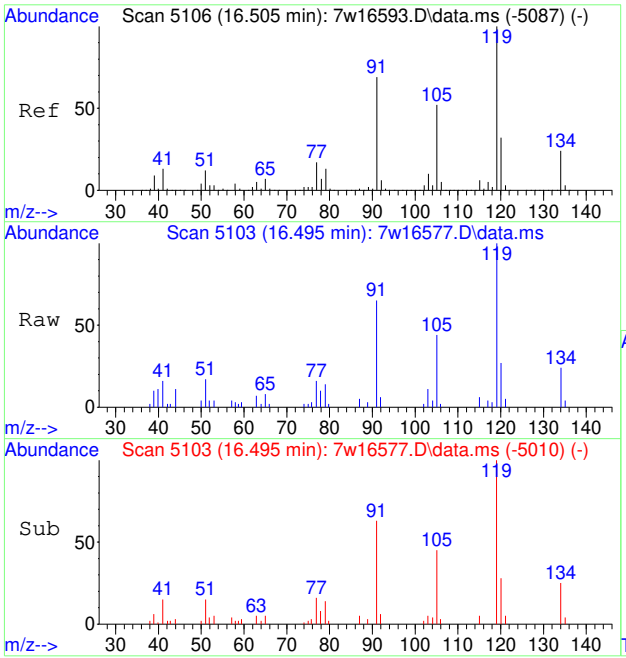


#94
ALPHA-METHYLSTYRENE
Concen: 0.09 PPBV
RT: 16.170 min Scan# 5002
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:118 Resp: 2929

Ion	Ratio	Lower	Upper
118	100		
117	80.1	59.9	111.3
103	52.7	36.2	67.2

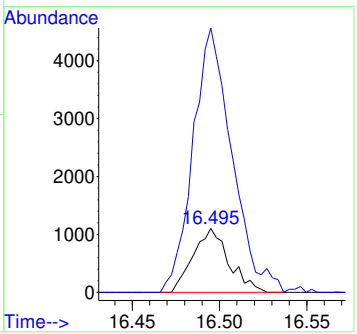


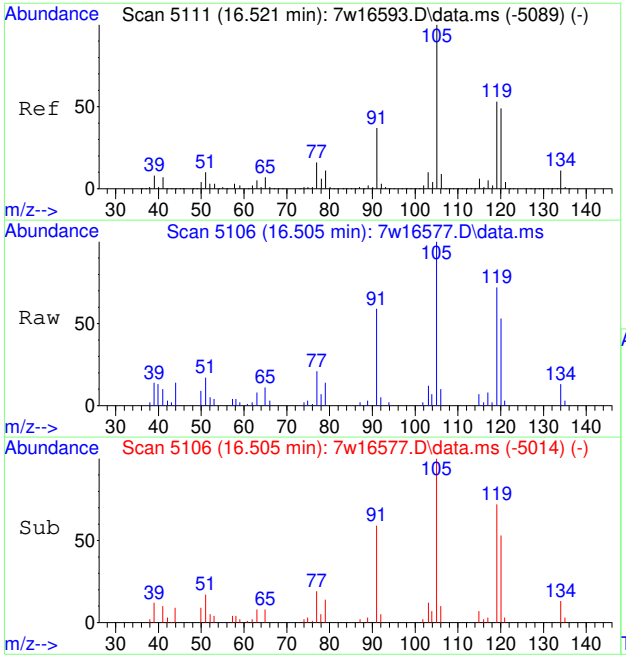


#95
TERT-BUTYLBENZENE
Concen: 0.10 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1569

Ion	Ratio	Lower	Upper
134	100		
119	455.9	307.9	571.7

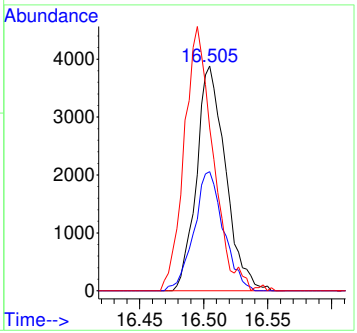


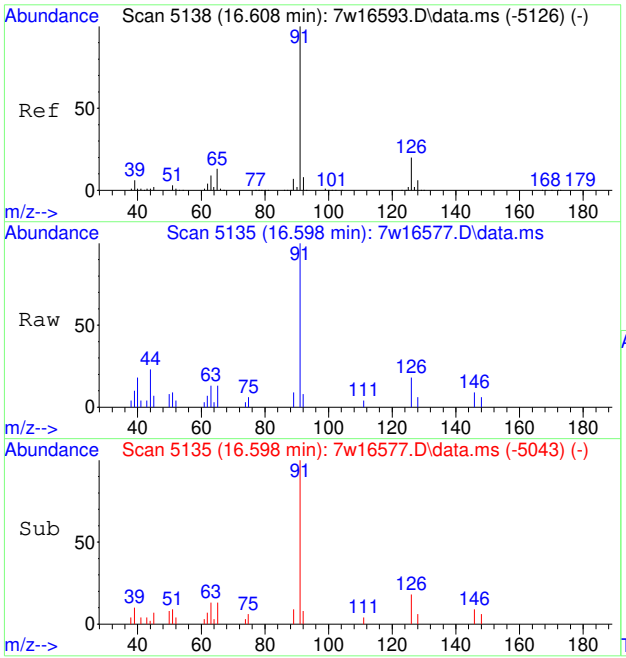


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6125

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	116.8	78.0	144.8

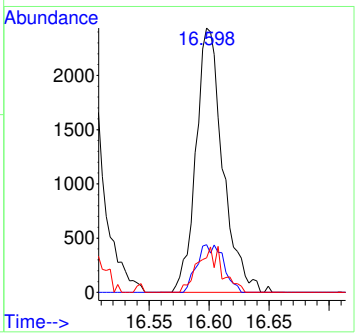


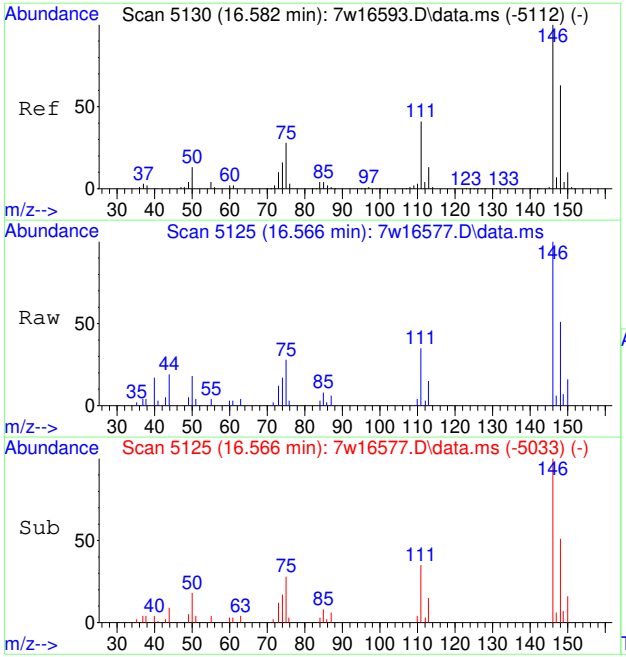


#97
BENZYL CHLORIDE
Concen: 0.07 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion: 91 Resp: 3788

Ion	Ratio	Lower	Upper
91	100		
126	18.1	17.2	32.0
65	15.8	7.3	13.7#

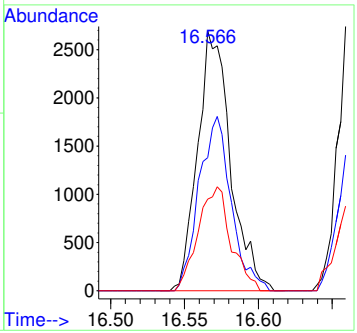


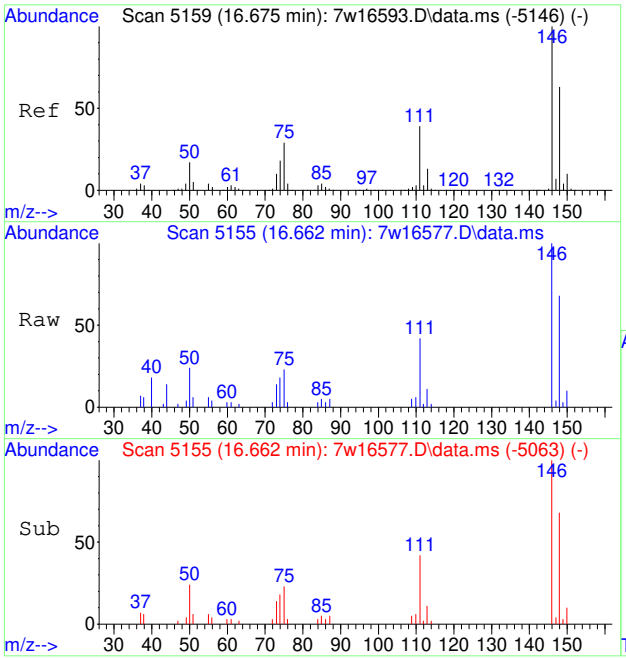


#98
M-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.566 min Scan# 5125
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4159

Ion	Ratio	Lower	Upper
146	100		
148	65.3	44.2	82.2
111	40.1	25.4	47.2

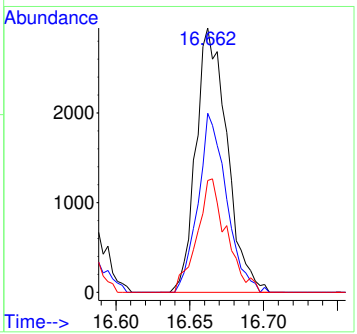


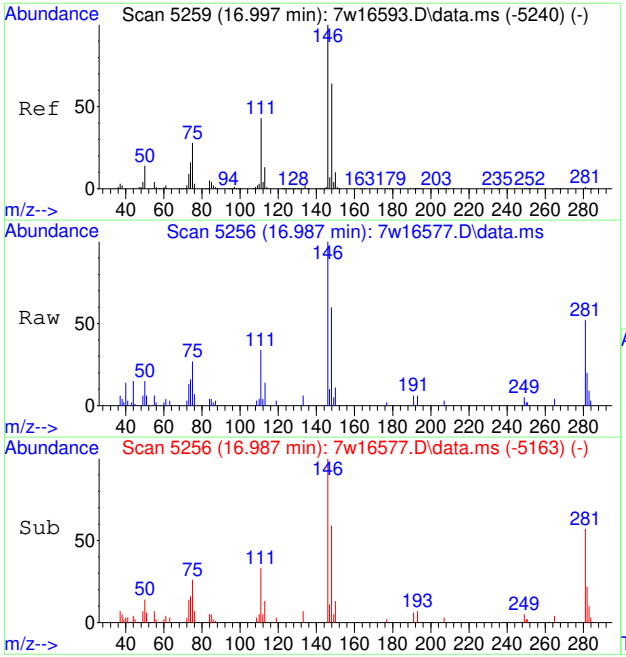


#99
P-DICHLOROBENZENE
Concen: 0.10 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4312

Ion	Ratio	Lower	Upper
146	100		
148	61.9	44.7	82.9
111	40.9	24.8	46.1

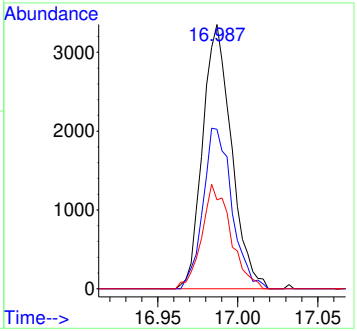


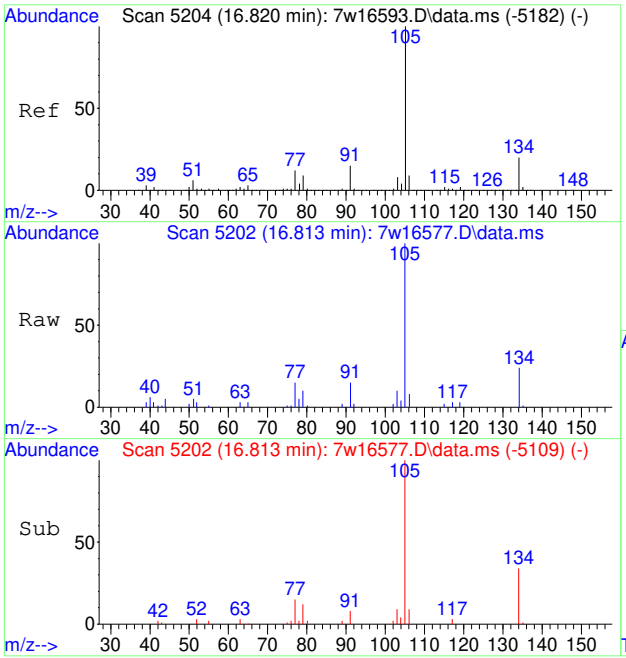


#100
O-DICHLOROBENZENE
Concen: 0.11 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:146 Resp: 4193

Ion	Ratio	Lower	Upper
146	100		
148	60.9	44.6	82.8
111	39.6	26.9	50.1

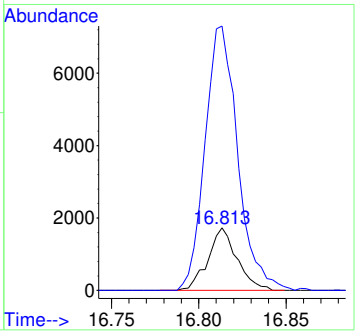


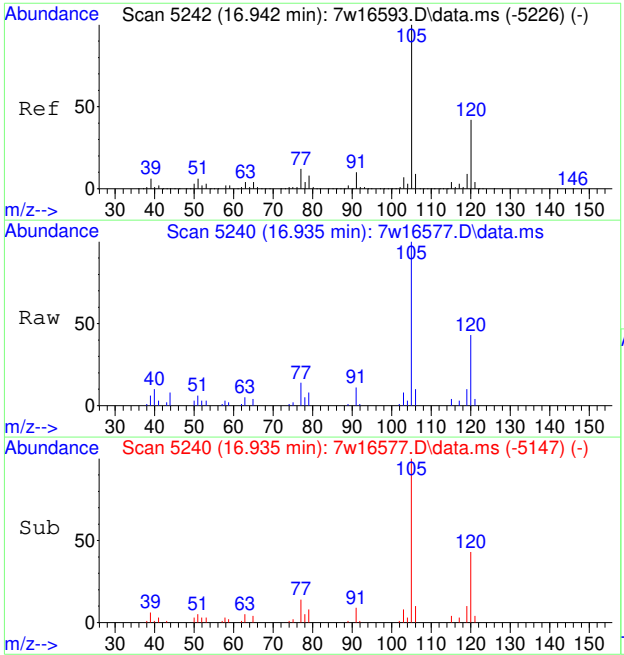


#101
SEC-BUTYLBENZENE
Concen: 0.11 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2000

Ion	Ratio	Lower	Upper
134	100		
105	476.9	314.4	584.0

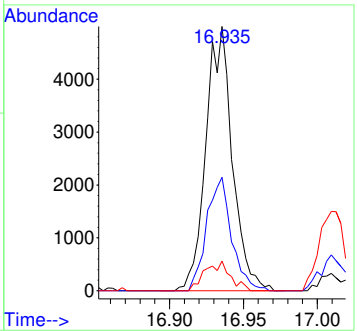


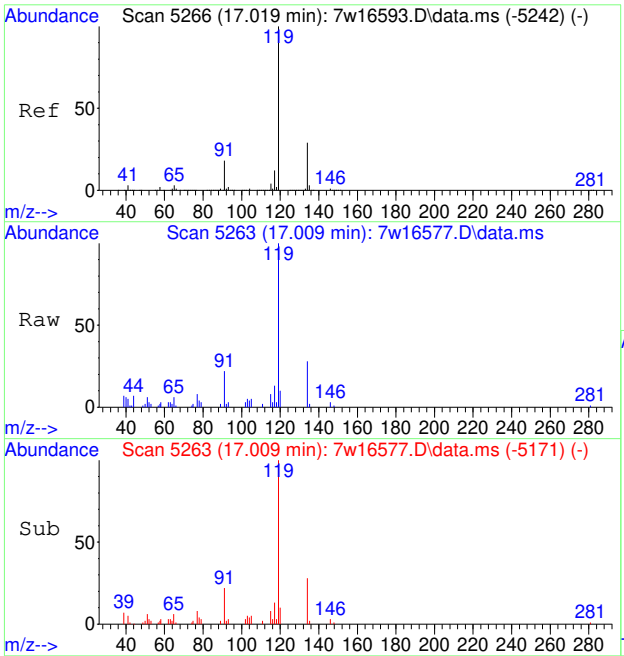


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:105 Resp: 6206

Ion	Ratio	Lower	Upper
105	100		
120	40.4	31.9	59.2
91	10.7	7.3	13.5

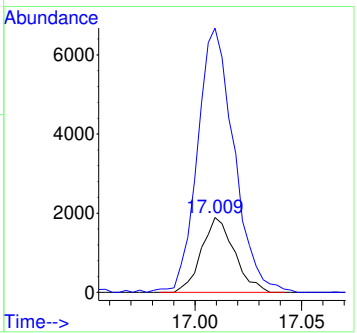


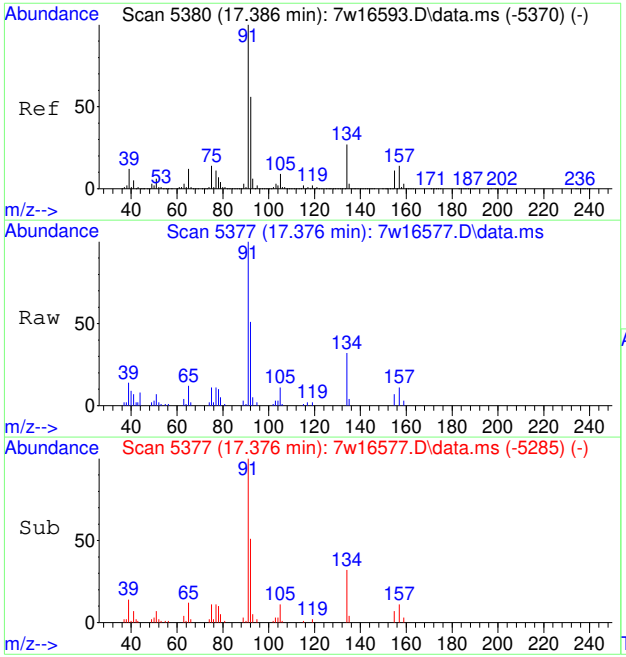


#103
P-ISOPROPYLTOLUENE
Concen: 0.10 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 2027

Ion	Ratio	Lower	Upper
134	100		
119	394.0	253.7	471.3

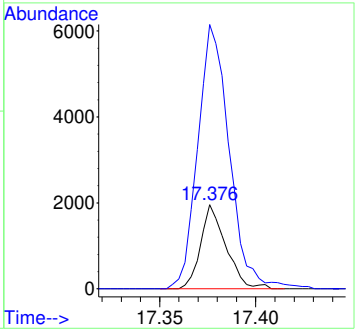


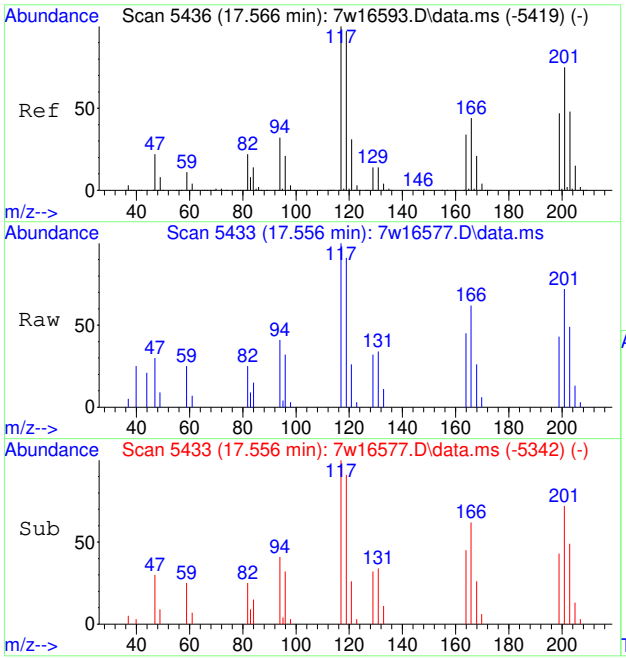


#104
N-BUTYLBENZENE
Concen: 0.09 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:134 Resp: 1794

Ion	Ratio	Lower	Upper
134	100		
91	392.4	231.1	429.1

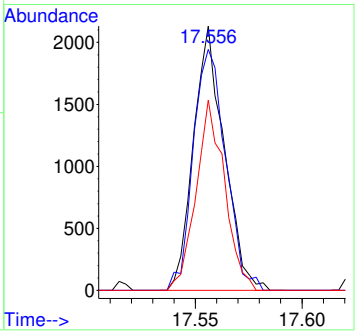


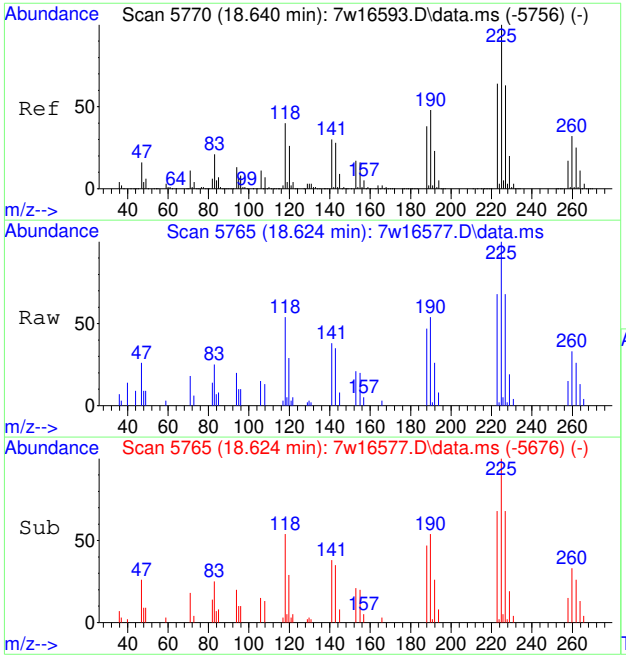


#105
HEXACHLOROETHANE
Concen: 0.09 PPBV
RT: 17.556 min Scan# 5433
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:117 Resp: 2143

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	66.7	45.9	85.3

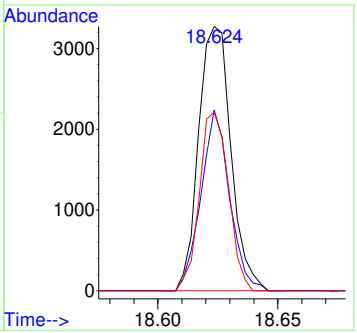


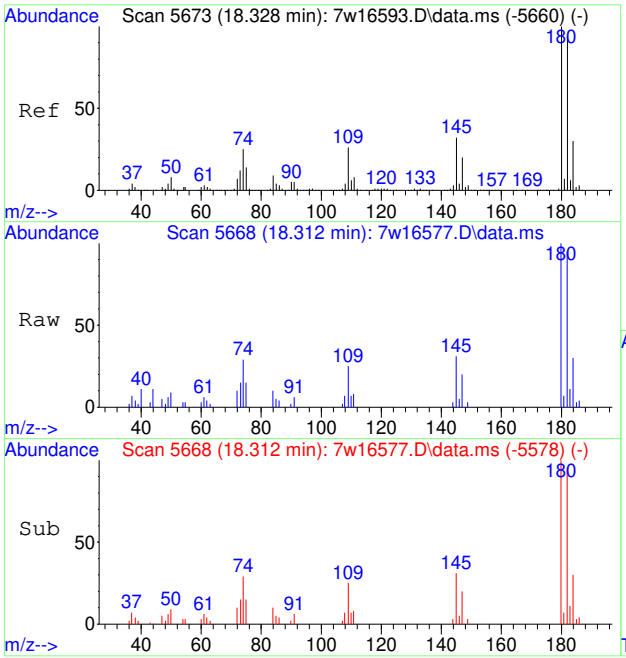


#106
HEXACHLOROBUTADIENE
Concen: 0.12 PPBV
RT: 18.624 min Scan# 5765
Delta R.T. -0.013 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:225 Resp: 3071

Ion	Ratio	Lower	Upper
225	100		
227	60.4	44.4	82.5
223	60.5	44.7	83.1

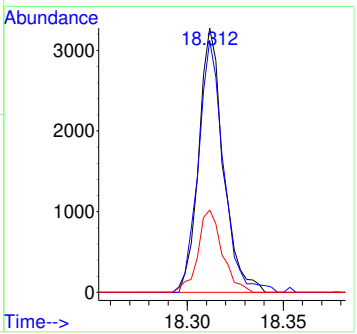


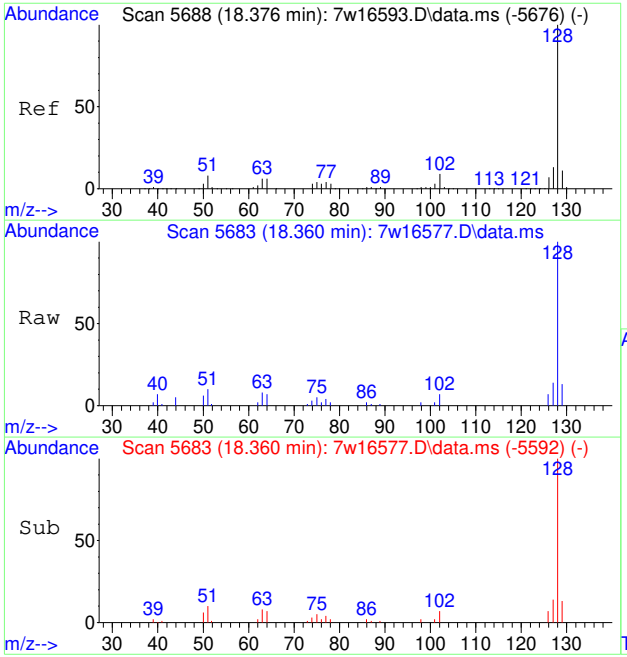


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.08 PPBV
RT: 18.312 min Scan# 5668
Delta R.T. -0.010 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:180 Resp: 2908

Ion	Ratio	Lower	Upper
180	100		
182	97.8	66.8	124.0
145	31.0	23.1	42.9

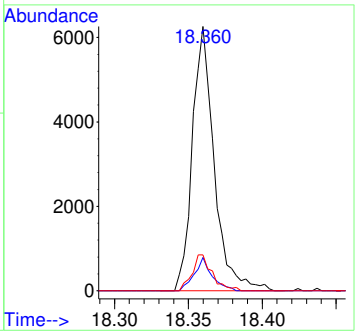




#108
NAPHTHALENE
Concen: 0.08 PPBV
RT: 18.360 min Scan# 5683
Delta R.T. -0.006 min
Lab File: 7w16577.D
Acq: 7 Aug 2025 4:38 am

Tgt Ion:128 Resp: 6418

Ion	Ratio	Lower	Upper
128	100		
129	10.1	7.3	13.7
127	12.5	8.8	16.4



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16577.D
Injection Time: 08/07/25 04:38

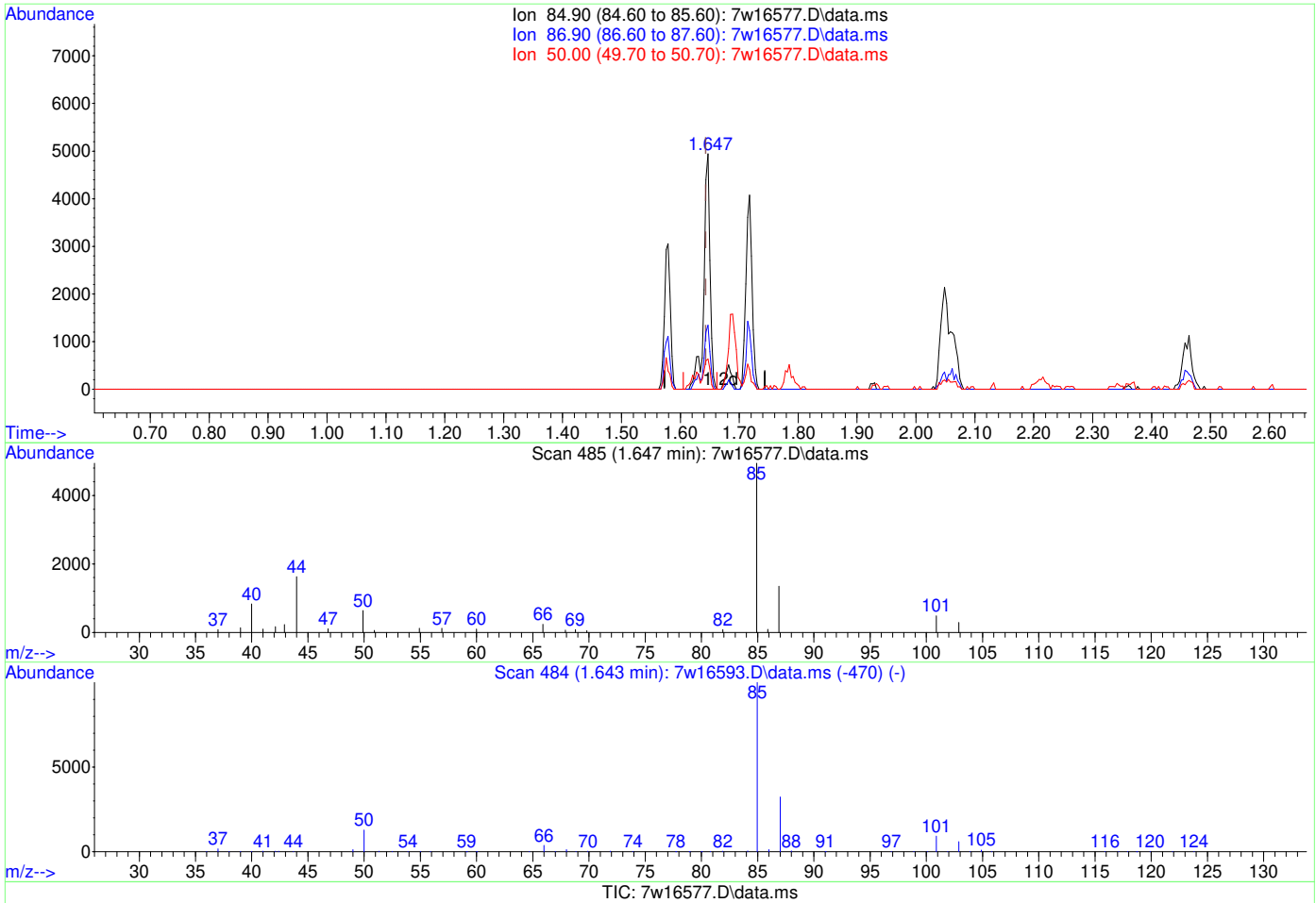
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.11PPBV

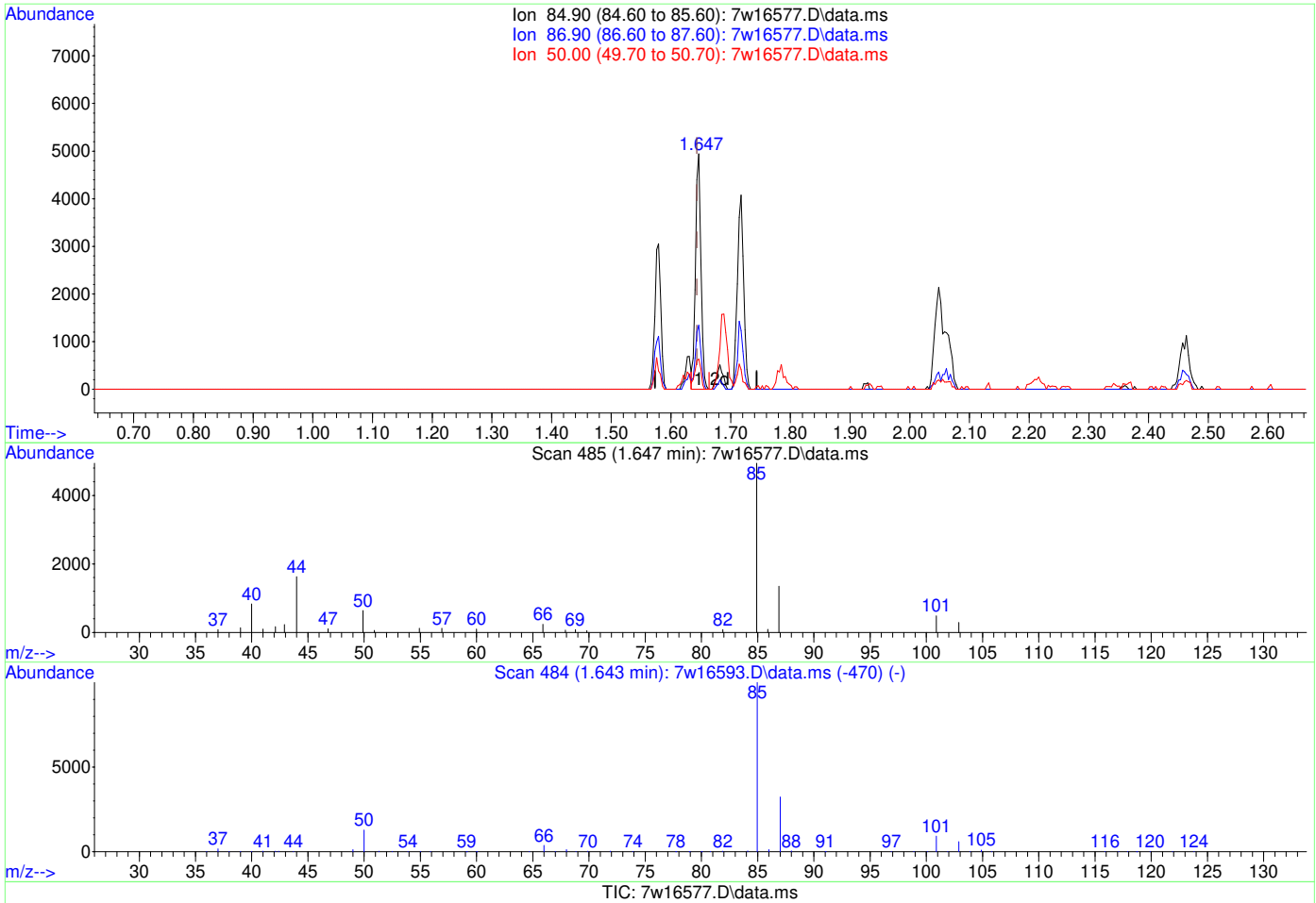
response 3582

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	30.29
50.00	17.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16577.D
Acq On : 7 Aug 2025 4:38 am
Operator : benk
Sample : ic577-0.1
Misc : MS93209,v7w577,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:31:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16577.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 0.09PPBV m

response 3122

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	34.75
50.00	17.30	24.76#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114690	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	581918	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	540272	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114690	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.312	95	425835	9.69	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	2657	0.18	PPBV		86
3) FREON 152A	1.605	65	1240	0.18	PPBV		85
4) CHLORODIFLUOROMETHANE	1.618	67	552	0.17	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	2985	0.19	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.644	85	5428m	0.16	PPBV		
7) PROPYLENE	1.627	41	1949	0.21	PPBV		93
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	5125	0.20	PPBV	#	88
9) FREON 114	1.714	85	5306	0.18	PPBV		85
10) CHLOROMETHANE	1.685	52	806	0.21	PPBV		85
11) VINYL CHLORIDE	1.746	62	2445	0.17	PPBV		96
12) 1,3-BUTADIENE	1.785	54	2011	0.18	PPBV	#	73
13) N-BUTANE	1.801	43	4132	0.22	PPBV	#	41
14) BROMOMETHANE	1.859	94	2032	0.19	PPBV		98
15) CHLOROETHANE	1.904	64	1408	0.19	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	4948	0.18	PPBV		95
17) ACETONITRILE	1.997	41	2687	0.23	PPBV		99
18) ACROLEIN	2.033	56	1361	0.22	PPBV		87
19) FREON 123	2.045	83	5339	0.19	PPBV		97
20) FREON 123A	2.065	117	3198	0.20	PPBV	#	51
21) TRICHLOROFLUOROMETHANE	2.126	101	5808	0.18	PPBV		99
22) ISOPROPYL ALCOHOL	2.145	45	6133	0.23	PPBV		91
23) ACETONE	2.074	58	1566	0.22	PPBV		69
24) PENTANE	2.238	42	2893	0.21	PPBV	#	82
25) IODOMETHANE	2.303	142	5560	0.19	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.325	96	2379	0.20	PPBV	#	70
27) CARBON DISULFIDE	2.460	76	6298	0.18	PPBV	#	80
28) ETHANOL	1.933	45	1573	0.23	PPBV		95
29) BROMOETHENE	2.000	106	2033	0.18	PPBV		99
30) ACRYLONITRILE	2.213	52	2213	0.22	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	2222	0.20	PPBV	#	78
32) 3-CHLOROPROPENE	2.406	76	1202	0.19	PPBV		77
33) FREON 113	2.457	151	3430	0.19	PPBV		82
34) TRANS-1,2-DICHLOROETHENE	2.685	96	2282	0.18	PPBV	#	60
35) TERTIARY BUTYL ALCOHOL	2.345	59	5515	0.17	PPBV		97
36) METHYL TERTIARY BUTYL ...	2.798	73	6887	0.19	PPBV	#	88
37) TETRAHYDROFURAN	3.489	72	887	0.14	PPBV	#	49
38) HEXANE	3.238	57	4468	0.18	PPBV		87
39) VINYL ACETATE	2.830	86	581	0.16	PPBV	#	53
40) 1,1-DICHLOROETHANE	2.759	63	4599	0.18	PPBV		97
41) METHYL ETHYL KETONE	2.926	72	1205	0.18	PPBV	#	81
42) CIS-1,2-DICHLOROETHENE	3.113	96	2527	0.19	PPBV	#	78
43) DIISOPROPYL ETHER	3.248	59	1371	0.20	PPBV		89
44) ETHYL ACETATE	3.261	61	871	0.18	PPBV	#	77
45) METHYL ACRYLATE	3.238	55	5488	0.18	PPBV	#	96
46) CHLOROFORM	3.258	83	5027	0.19	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	5307	0.19	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	5006	0.18	PPBV		95
49) CARBON TETRACHLORIDE	4.232	117	4884	0.16	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.660	62	3746	0.18	PPBV	#	96
51)	BENZENE	4.126	78	7569	0.19	PPBV		91
53)	CYCLOHEXANE	4.338	84	3276	0.18	PPBV	#	64
54)	2,3-DIMETHYLPENTANE	4.582	71	1571	0.17	PPBV	#	52
55)	TRICHLOROETHENE	5.010	95	3186	0.17	PPBV		84
56)	1,2-DICHLOROPROPANE	4.785	63	2832	0.17	PPBV		93
57)	DIBROMOMETHANE	4.740	174	2923	0.19	PPBV		89
58)	ETHYL ACRYLATE	4.907	55	6937	0.18	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.959	83	5187	0.16	PPBV		92
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	15119	0.19	PPBV	#	94
61)	1,4-DIOXANE	5.090	88	1375	0.15	PPBV	#	1
62)	HEPTANE	5.425	43	5077	0.19	PPBV		91
63)	METHYL METHACRYLATE	5.328	69	2638	0.17	PPBV		84
64)	METHYL ISOBUTYL KETONE	6.058	58	2634	0.17	PPBV	#	88
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	4430	0.17	PPBV		99
66)	TOLUENE	7.129	91	9065	0.19	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	4438	0.18	PPBV		98
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	3506	0.14	PPBV		95
69)	1,1,2-TRICHLOROETHANE	6.766	83	2630	0.18	PPBV		94
70)	2-HEXANONE	7.724	58	3463	0.17	PPBV	#	84
71)	ETHYL METHACRYLATE	7.839	69	4472	0.17	PPBV	#	87
72)	TETRACHLOROETHENE	8.846	164	3315	0.19	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.656	129	4563	0.15	PPBV		96
74)	1,2-DIBROMOETHANE	7.994	107	4734	0.19	PPBV	#	97
75)	OCTANE	8.994	43	6956	0.19	PPBV		89
77)	1,1,1,2-TETRACHLOROETHANE	10.048	131	3463	0.16	PPBV		87
78)	CHLOROBENZENE	10.045	112	7506	0.19	PPBV		87
79)	ETHYLBENZENE	10.923	91	12148	0.19	PPBV		93
80)	M,P-XYLENE	11.344	91	19306	0.37	PPBV		87
81)	O-XYLENE	12.280	91	9544	0.19	PPBV		92
82)	STYRENE	12.064	104	6329	0.16	PPBV	#	90
83)	NONANE	13.396	43	7642	0.20	PPBV		86
84)	BROMOFORM	11.151	173	3912	0.15	PPBV		98
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	7071	0.19	PPBV		96
86)	1,2,3-TRICHLOROPROPANE	12.569	75	5376	0.19	PPBV	#	99
88)	ISOPROPYLBENZENE	13.791	120	3578	0.19	PPBV	#	69
89)	BROMOBENZENE	13.646	77	6796	0.19	PPBV		75
90)	2-CHLOROTOLUENE	14.781	126	2989	0.16	PPBV		99
91)	N-PROPYLBENZENE	15.129	120	3735	0.18	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	13365	0.18	PPBV		96
93)	1,3,5-TRIMETHYLBENZENE	15.836	105	11247	0.18	PPBV	#	89
94)	ALPHA-METHYLSTYRENE	16.180	118	4973	0.15	PPBV		95
95)	TERT-BUTYLBENZENE	16.498	134	2760	0.18	PPBV		91
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	11478	0.18	PPBV		98
97)	BENZYL CHLORIDE	16.595	91	6914	0.13	PPBV	#	90
98)	M-DICHLOROBENZENE	16.569	146	7589	0.18	PPBV		96
99)	P-DICHLOROBENZENE	16.665	146	7856	0.19	PPBV		96
100)	O-DICHLOROBENZENE	16.987	146	7325	0.19	PPBV		96
101)	SEC-BUTYLBENZENE	16.813	134	3439	0.19	PPBV		82
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	11073	0.18	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.009	134	3722	0.18	PPBV		95
104)	N-BUTYLBENZENE	17.379	134	3557	0.18	PPBV		86
105)	HEXACHLOROETHANE	17.559	117	3887	0.16	PPBV		97
106)	HEXACHLOROBUTADIENE	18.630	225	5583	0.21	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.315	180	5618	0.16	PPBV		98
108)	NAPHTHALENE	18.363	128	11029	0.14	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	17908	0.28	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

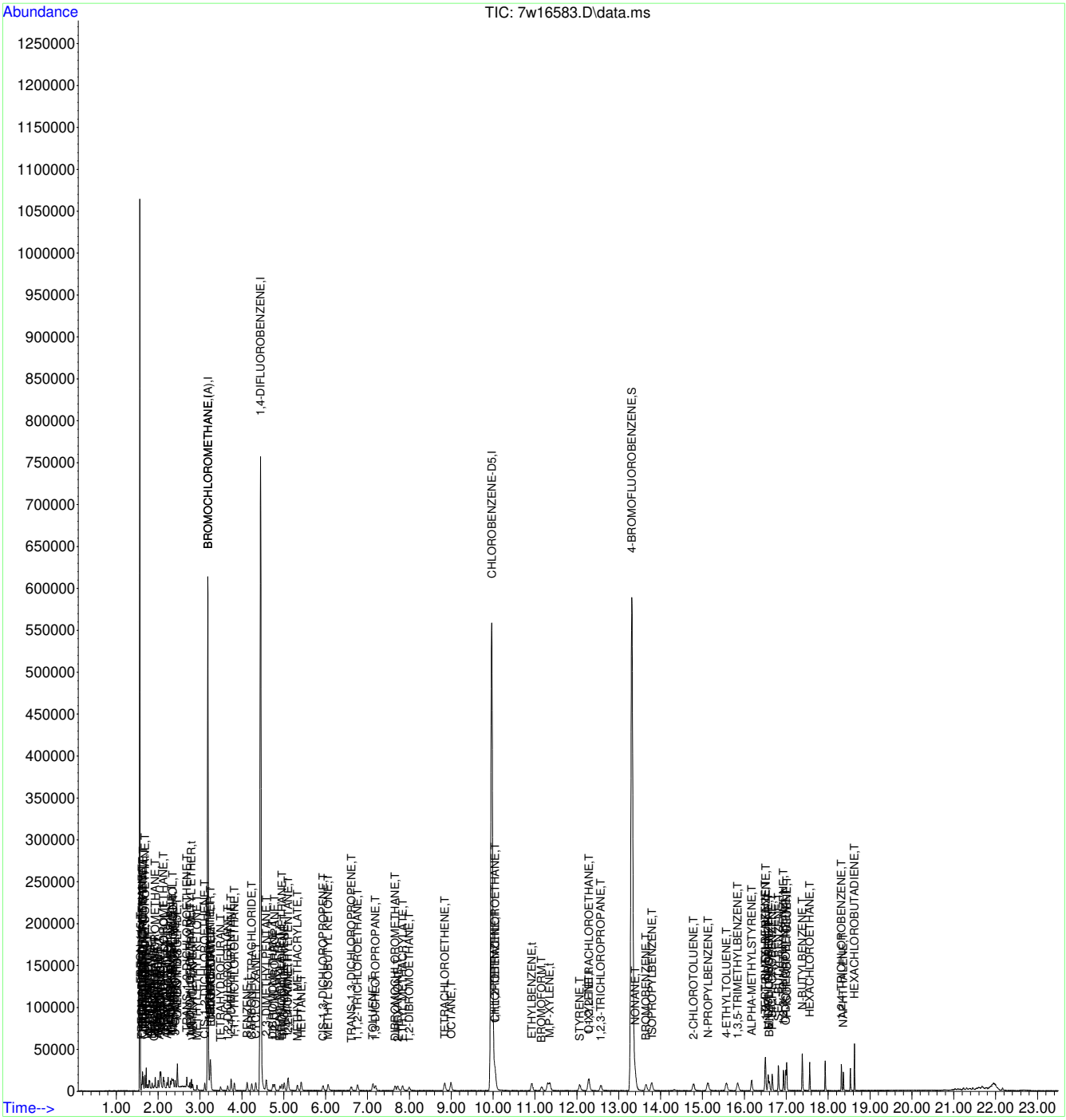
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

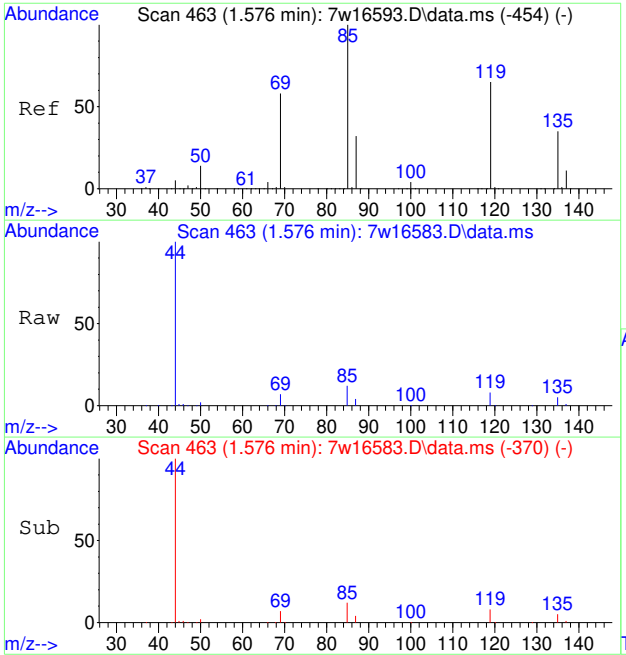
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 14:59:25 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

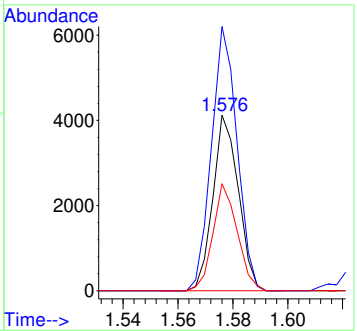


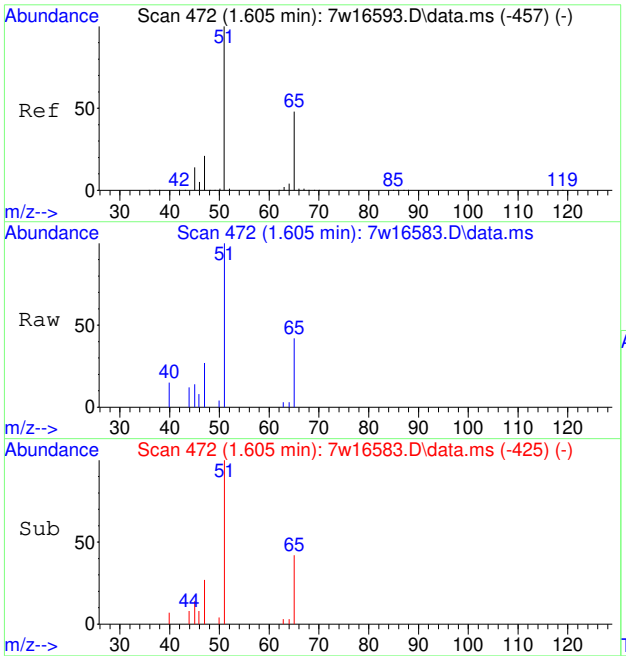


#2
FREON 115
Concen: 0.18 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:119 Resp: 2657

Ion	Ratio	Lower	Upper
119	100		
85	151.2	90.9	168.7
135	58.3	38.2	71.0

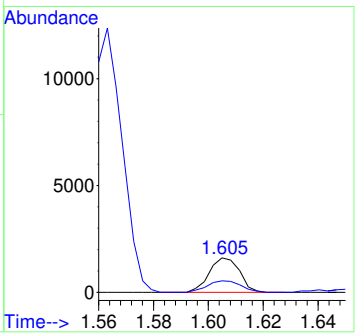


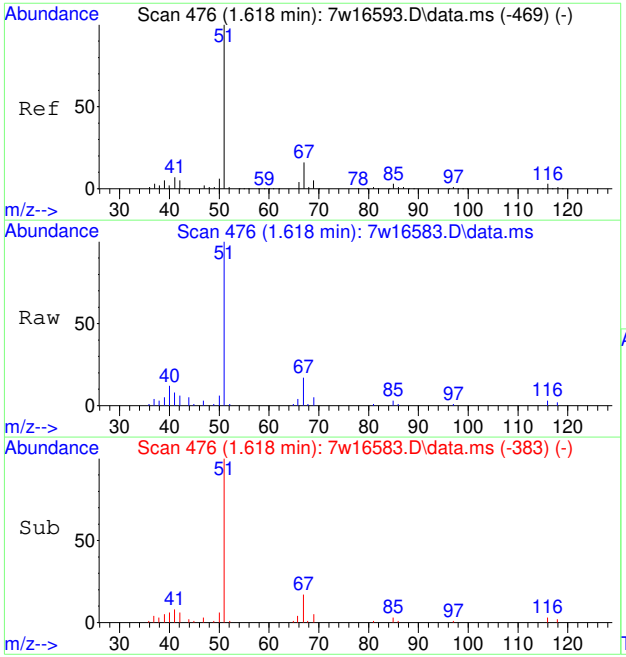


#3
FREON 152A
Concen: 0.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 1240

Ion	Ratio	Lower	Upper
65	100		
45	37.4	20.6	38.4

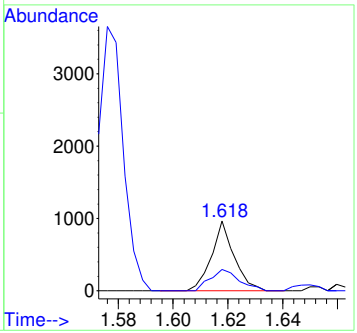


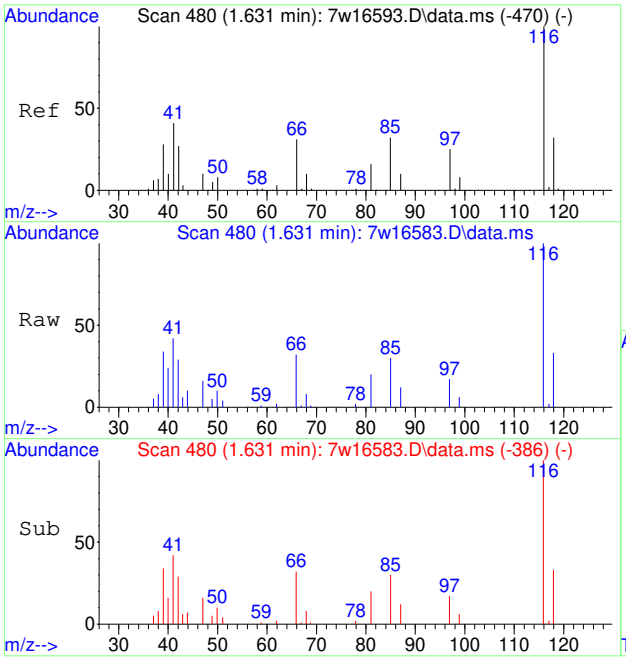


#4
CHLORODIFLUOROMETHANE
Concen: 0.17 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 552

Ion	Ratio	Lower	Upper
67	100		
69	39.3	25.4	47.2

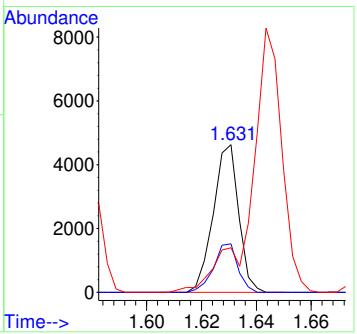


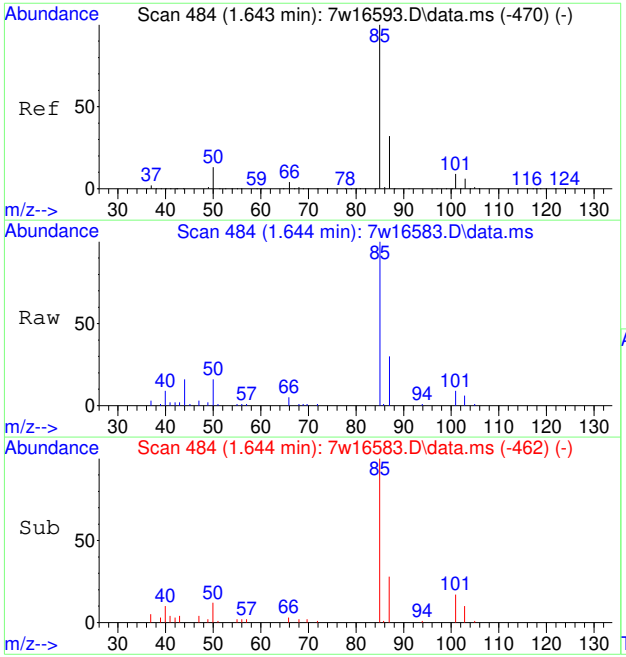


#5
CHLOROTRIFLUOROETHENE
Concen: 0.19 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:116 Resp: 2985

Ion	Ratio	Lower	Upper
116	100		
118	31.6	22.7	42.1
85	215.0	194.7	361.7

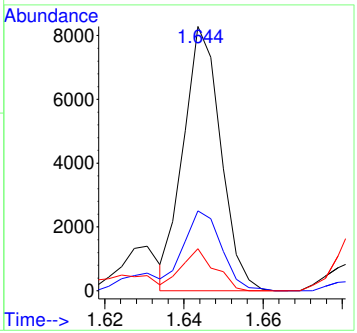


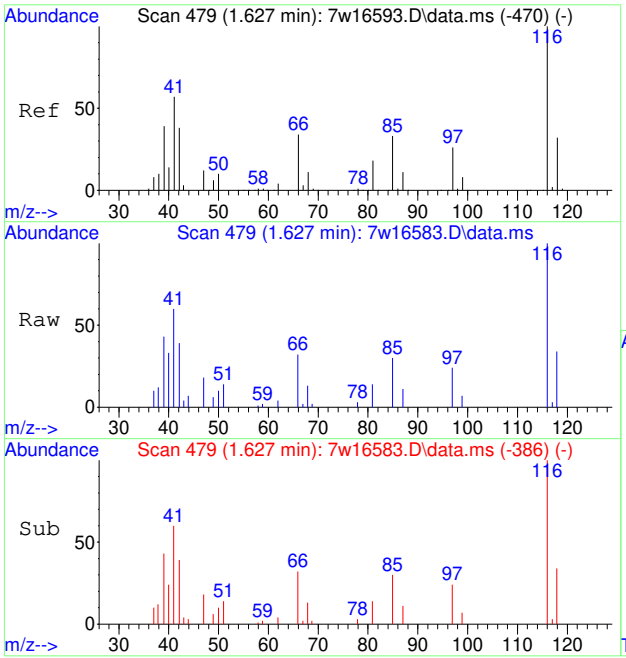


#6
DICHLORODIFLUOROMETHANE
Concen: 0.16 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5428

Ion	Ratio	Lower	Upper
85	100		
87	37.7	23.1	42.9
50	25.0	12.1	22.5#

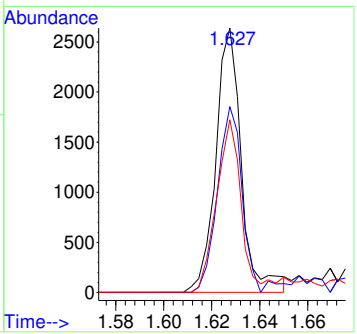


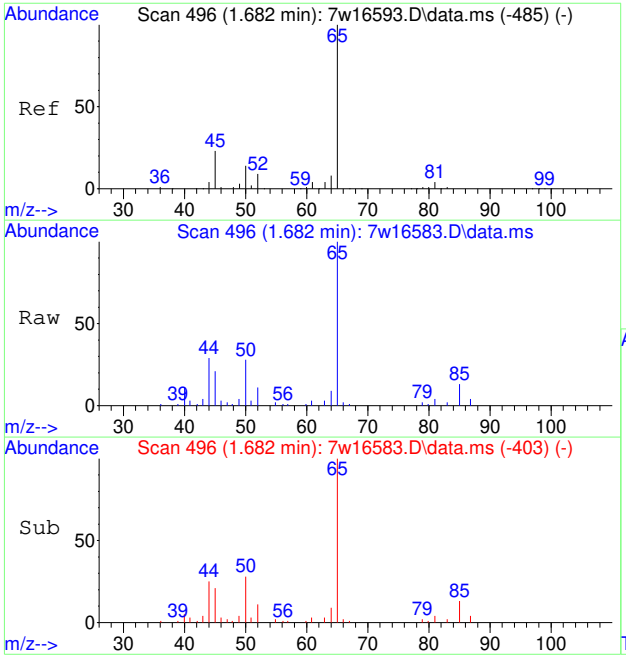


#7
PROPYLENE
Concen: 0.21 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 1949

Ion	Ratio	Lower	Upper
41	100		
39	69.6	51.0	94.8
42	74.5	46.6	86.6

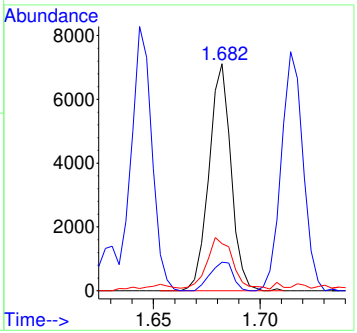


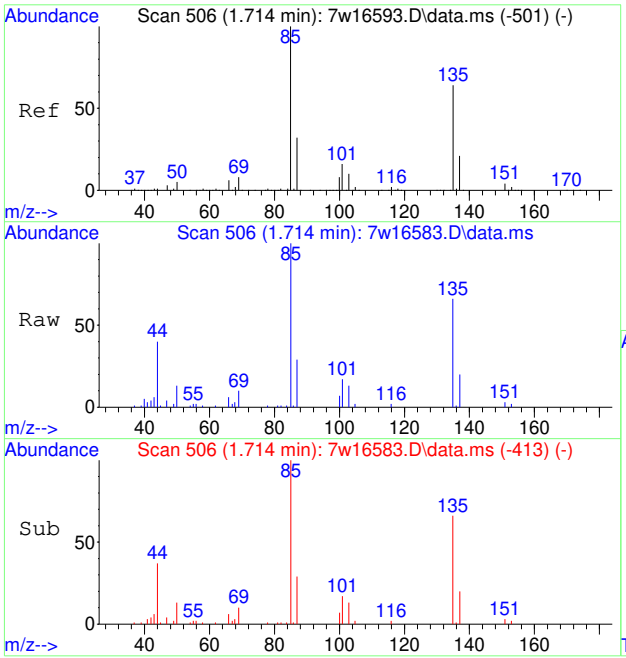


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.20 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 65 Resp: 5125

Ion	Ratio	Lower	Upper
65	100		
85	13.1	9.7	17.9
45	33.1	17.0	31.6#

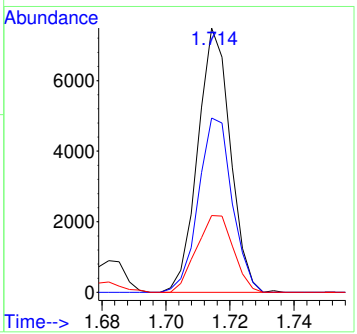


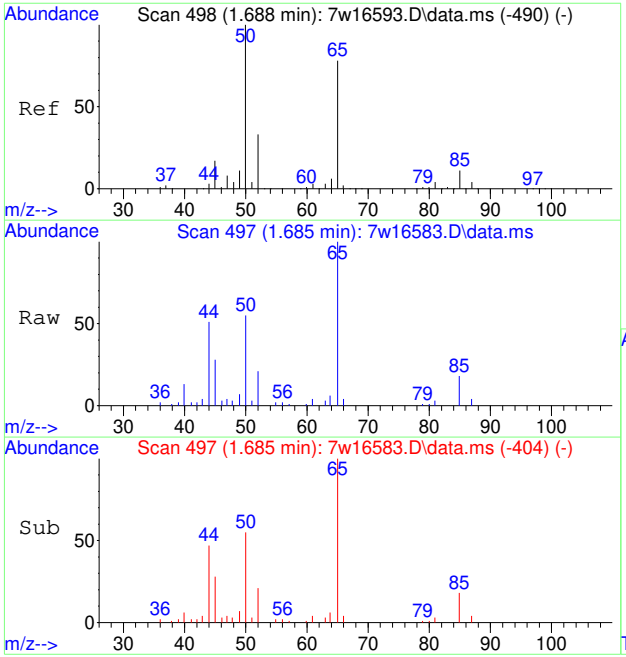


#9
FREON 114
Concen: 0.18 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 85 Resp: 5306

Ion	Ratio	Lower	Upper
85	100		
135	68.3	61.3	113.9
87	32.8	23.2	43.0

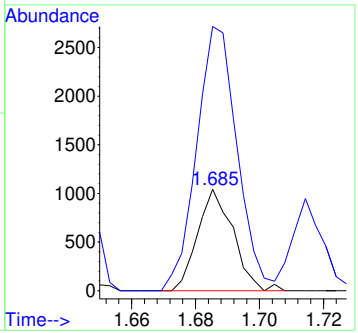


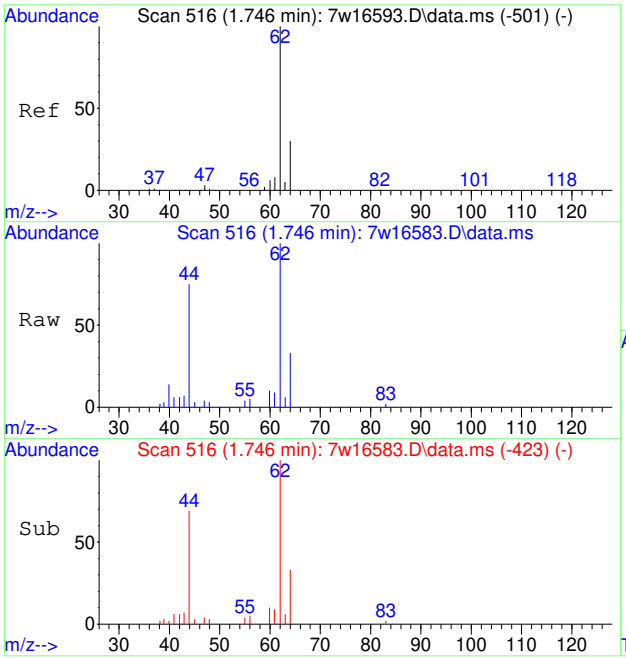


#10
CHLOROMETHANE
Concen: 0.21 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 806

Ion	Ratio	Lower	Upper
52	100		
50	294.8	227.6	422.6

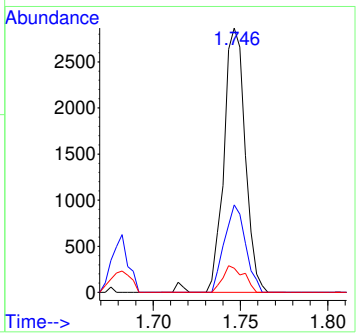


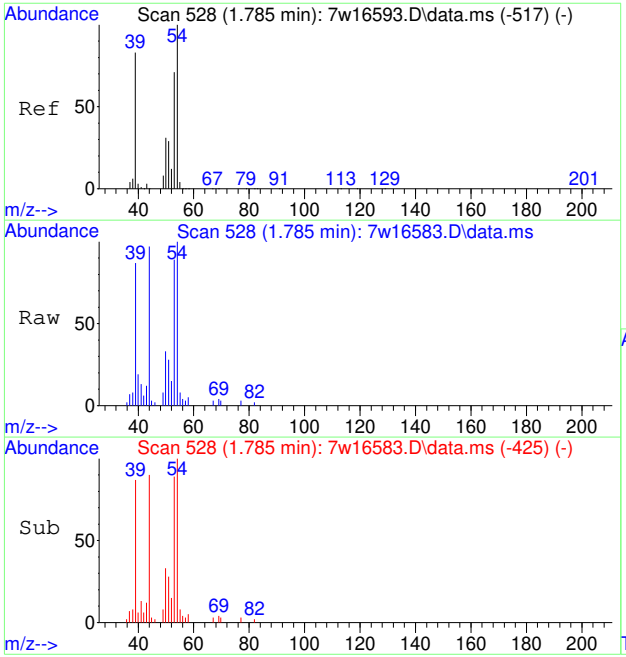


#11
VINYL CHLORIDE
Concen: 0.17 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 2445

Ion	Ratio	Lower	Upper
62	100		
64	32.8	21.6	40.2
61	9.9	5.7	10.7

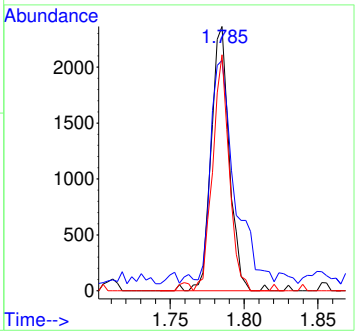


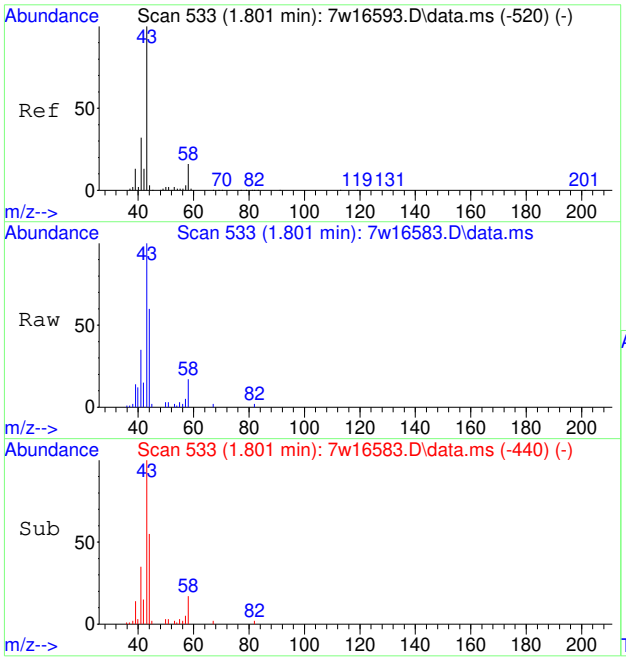


#12
1,3-BUTADIENE
Concen: 0.18 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 54 Resp: 2011

Ion	Ratio	Lower	Upper
54	100		
39	113.5	125.6	185.6#
53	83.8	40.7	100.7

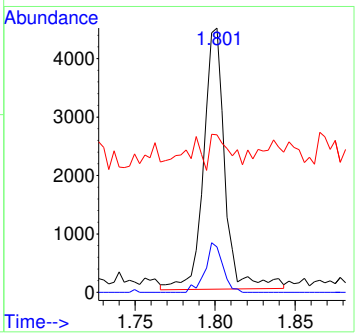


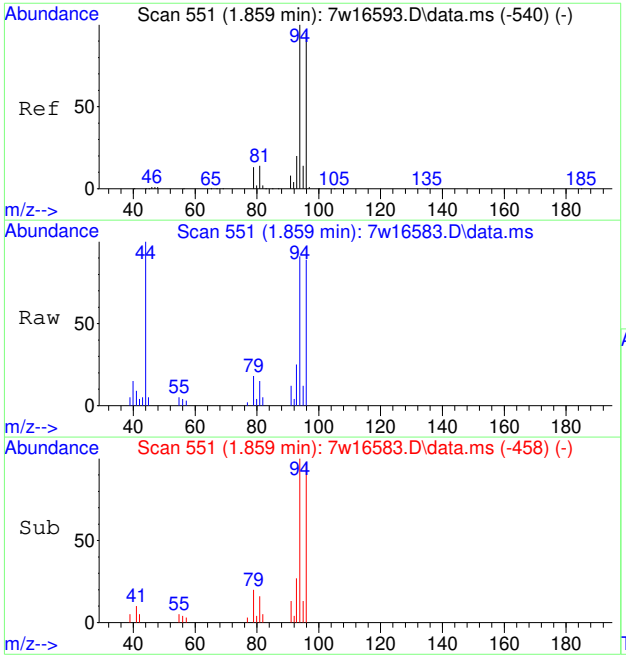


#13
N-BUTANE
Concen: 0.22 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 4132

Ion	Ratio	Lower	Upper
43	100		
58	15.6	10.4	19.4
44	88.8	3.0	5.6#

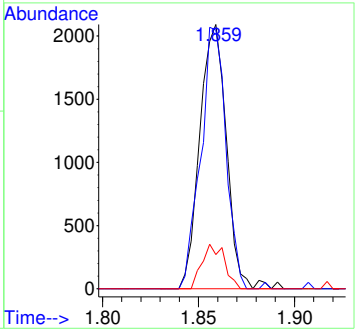


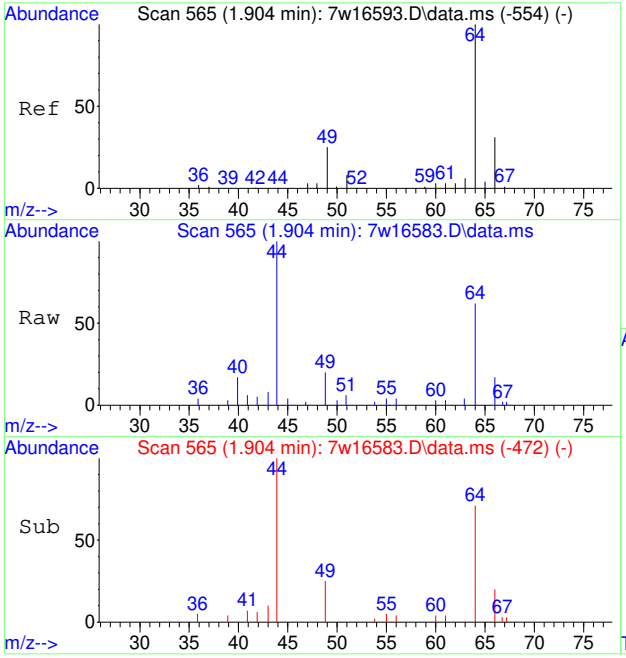


#14
BROMOMETHANE
Concen: 0.19 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 94 Resp: 2032

Ion	Ratio	Lower	Upper
94	100		
96	93.0	63.6	118.0
95	14.1	10.0	18.6

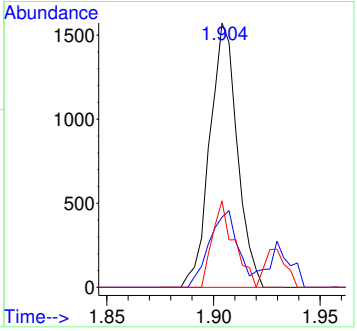


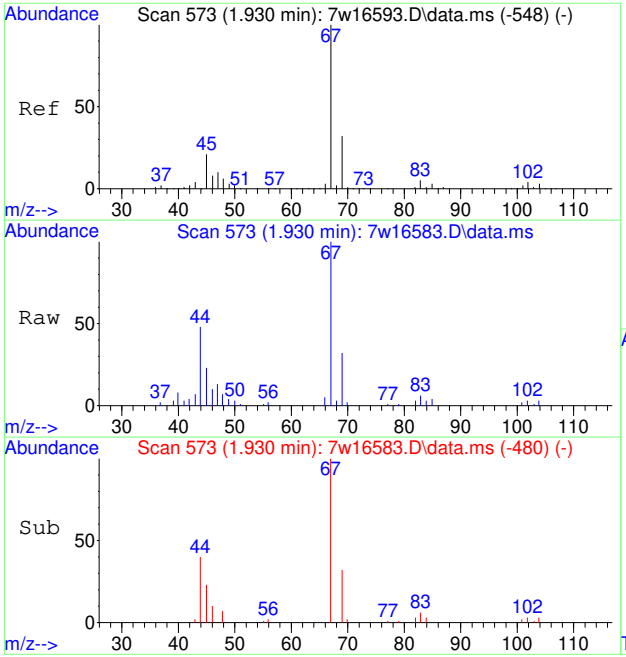


#15
CHLOROETHANE
Concen: 0.19 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 64 Resp: 1408

Ion	Ratio	Lower	Upper
64	100		
66	31.4	23.0	42.6
49	26.1	21.5	39.9

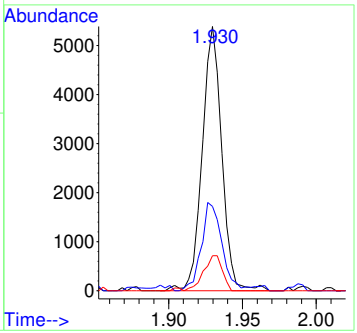


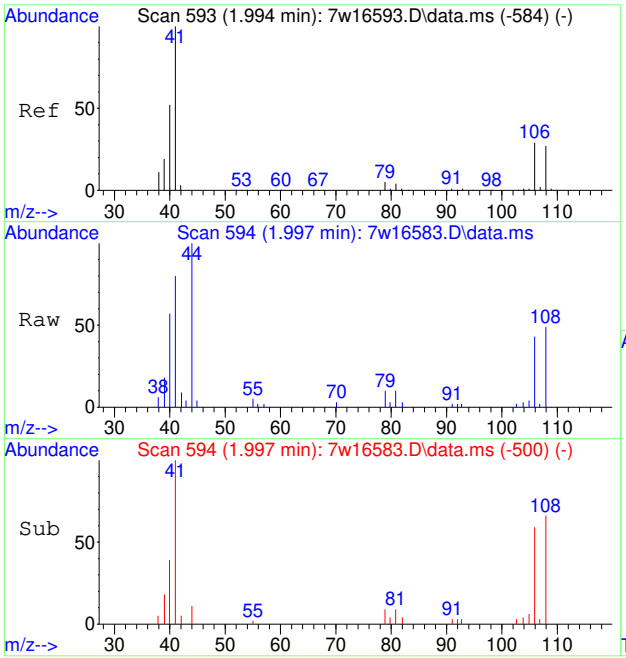


#16
DICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 67 Resp: 4948

Ion	Ratio	Lower	Upper
67	100		
69	36.5	23.2	43.0
47	13.1	9.6	17.8

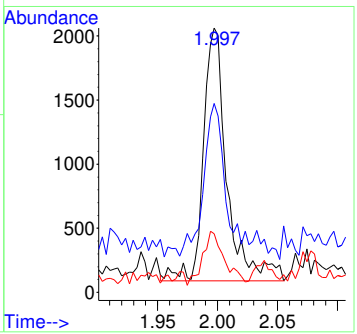


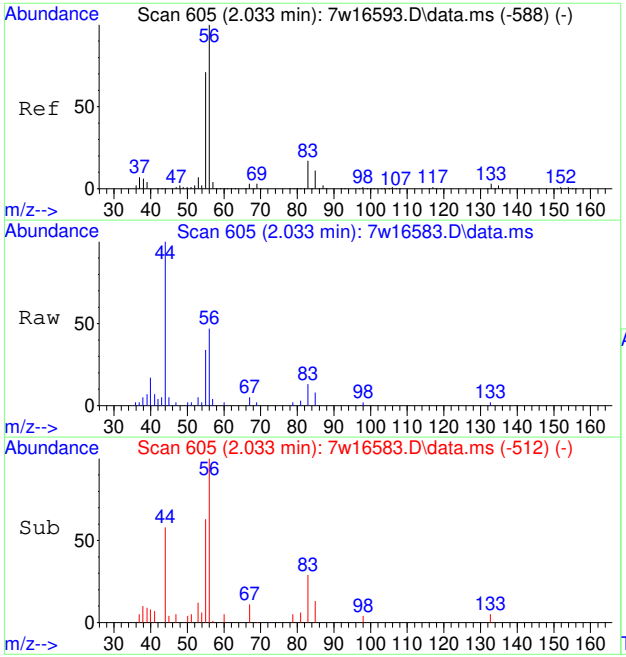


#17
ACETONITRILE
Concen: 0.23 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 41 Resp: 2687

Ion	Ratio	Lower	Upper
41	100		
40	55.7	38.4	71.4
39	20.2	14.5	26.9

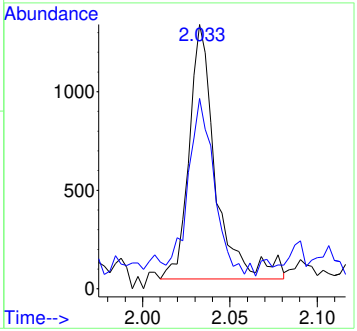


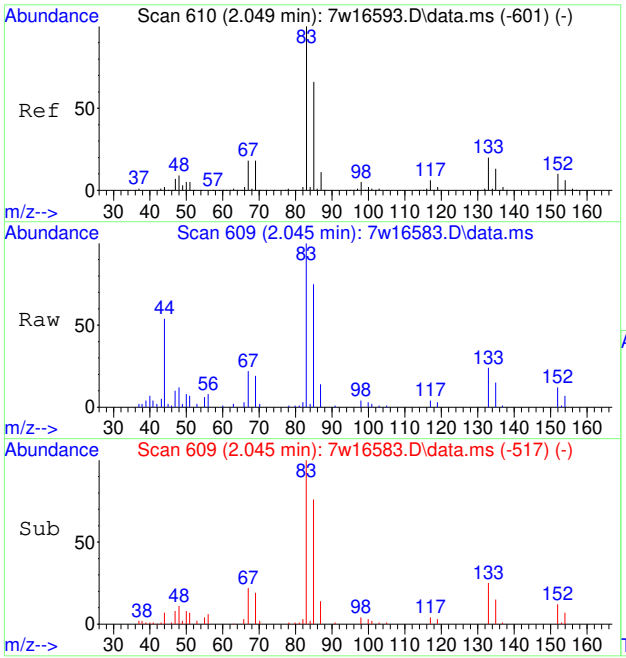


#18
ACROLEIN
Concen: 0.22 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 56 Resp: 1361

Ion	Ratio	Lower	Upper
56	100		
55	62.1	51.2	95.2

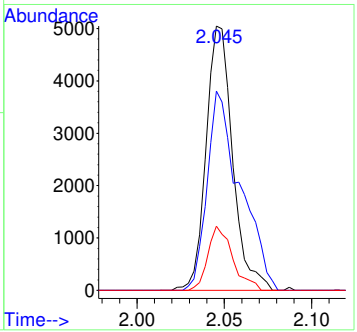


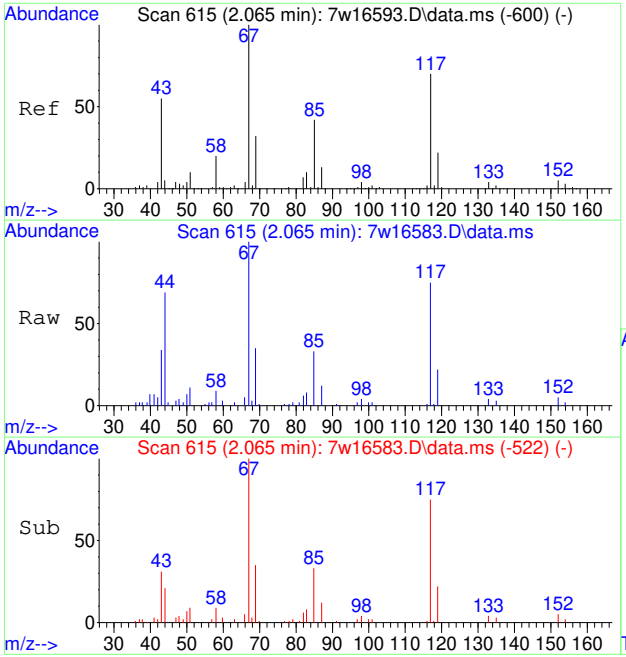


#19
FREON 123
Concen: 0.19 PPBV
RT: 2.045 min Scan# 609
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5339

Ion	Ratio	Lower	Upper
83	100		
85	94.1	65.7	121.9
133	22.7	19.9	36.9

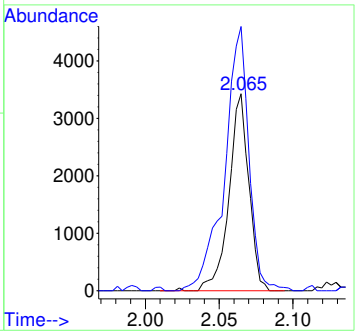


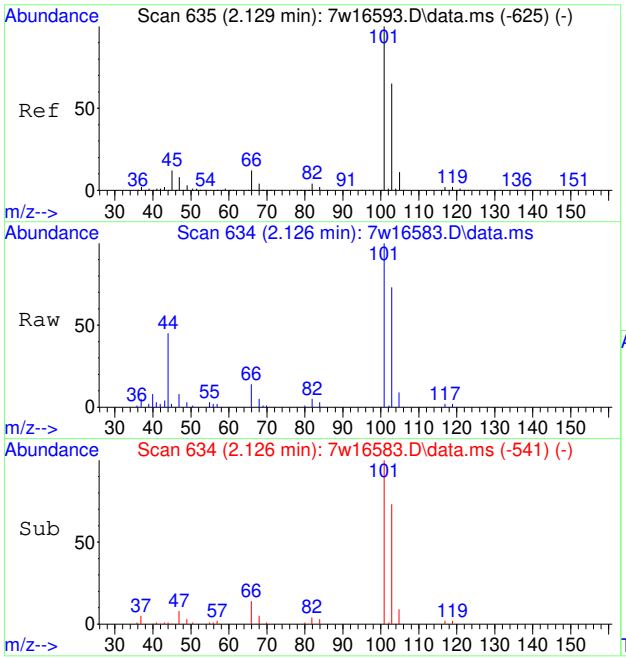


#20
FREON 123A
Concen: 0.20 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3198

Ion	Ratio	Lower	Upper
117	100		
67	164.6	78.8	146.4#

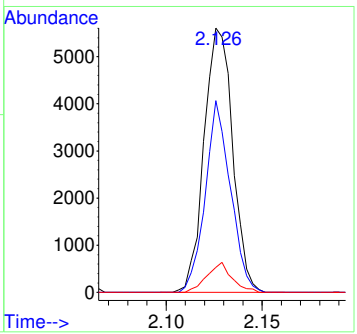


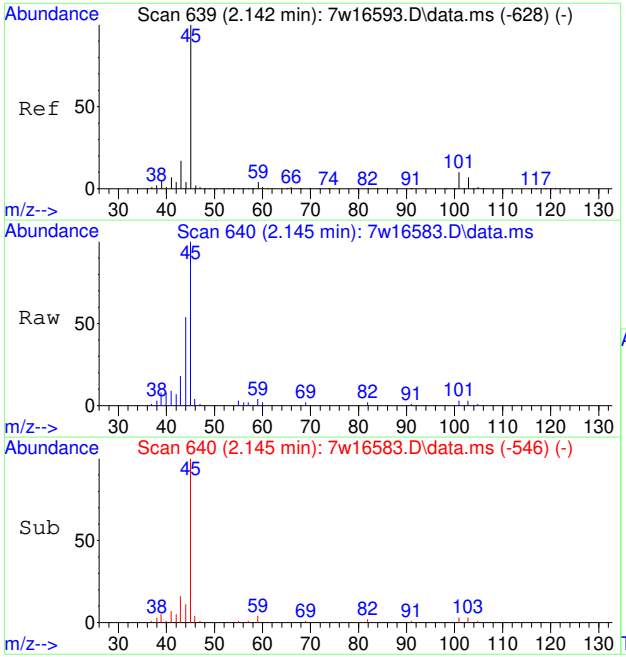


#21
TRICHLOROFLUOROMETHANE
Concen: 0.18 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:101 Resp: 5808

Ion	Ratio	Lower	Upper
101	100		
103	63.9	44.3	82.3
105	9.9	7.3	13.7

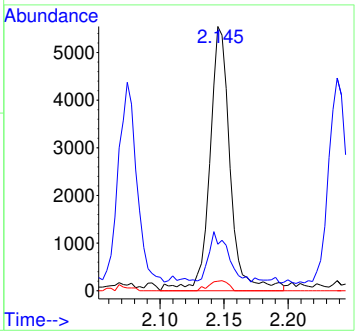


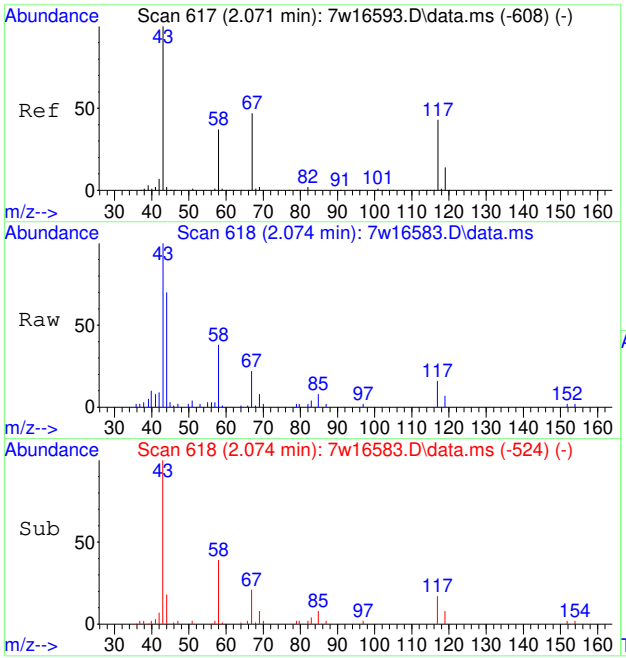


#22
ISOPROPYL ALCOHOL
Concen: 0.23 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 6133

Ion	Ratio	Lower	Upper
45	100		
43	19.2	17.1	31.9
59	3.7	3.1	5.8

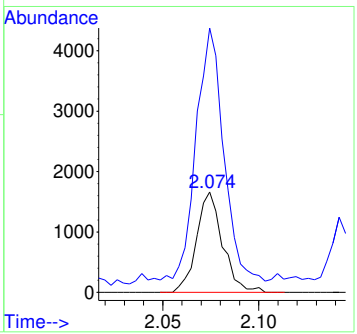


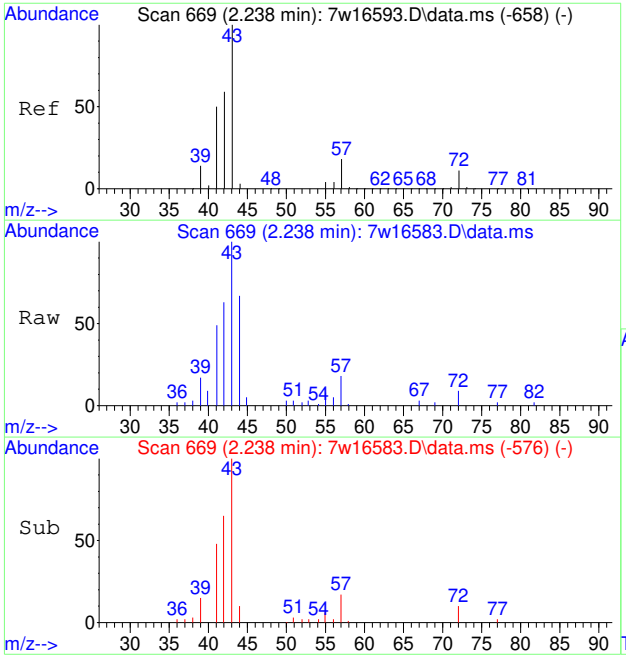


#23
ACETONE
Concen: 0.22 PPBV
RT: 2.074 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 1566

Ion	Ratio	Lower	Upper
58	100		
43	294.4	254.0	471.6

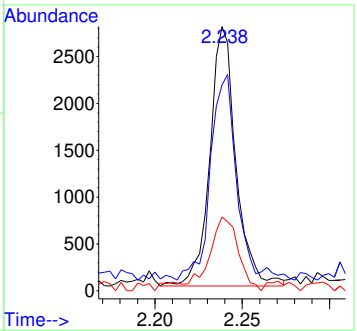


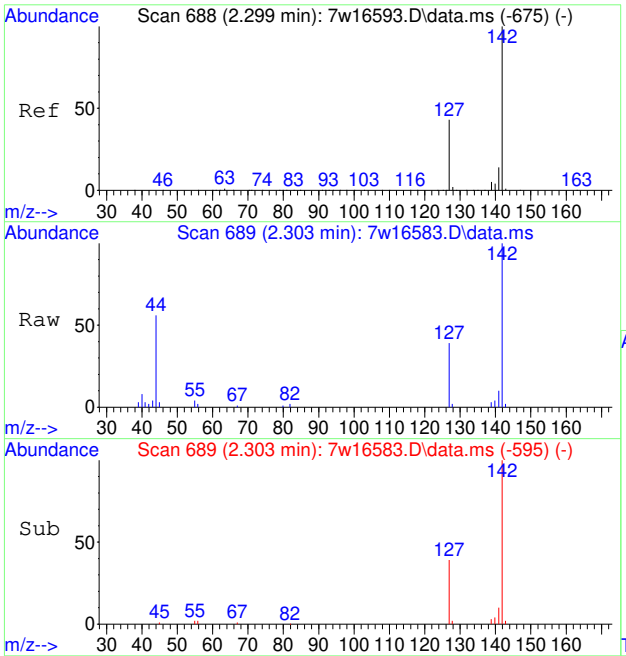


#24
PENTANE
Concen: 0.21 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 42 Resp: 2893

Ion	Ratio	Lower	Upper
42	100		
41	80.3	69.2	128.6
57	35.3	18.6	34.6#

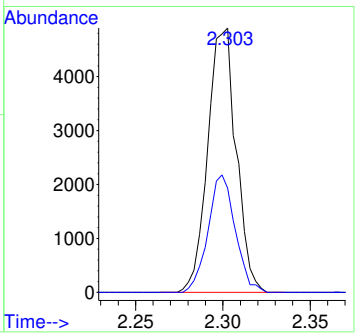


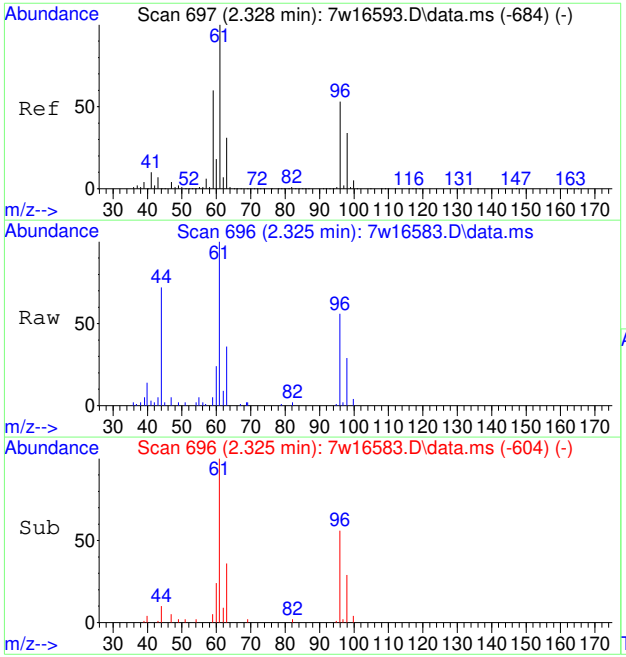


#25
IODOMETHANE
Concen: 0.19 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:142 Resp: 5560

Ion	Ratio	Lower	Upper
142	100		
127	42.5	32.1	59.7

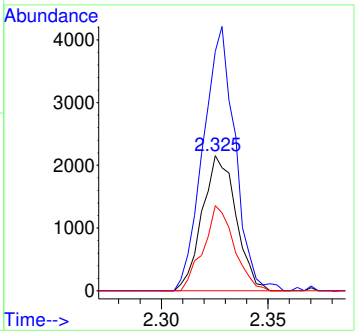


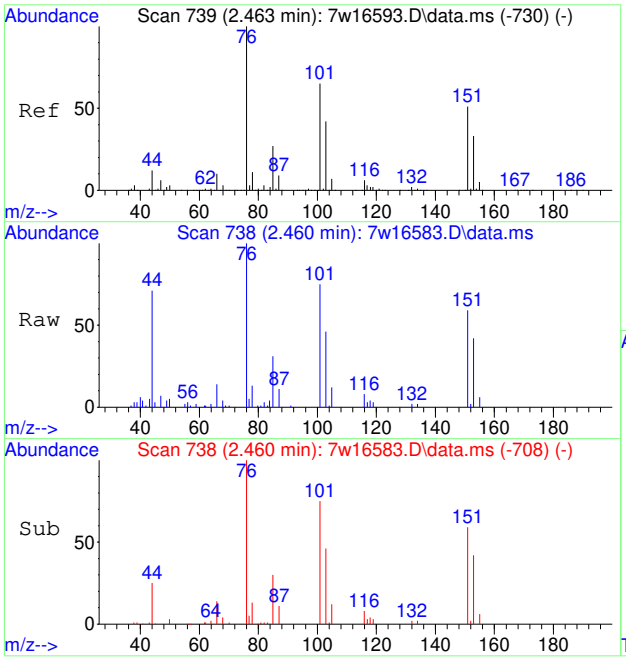


#26
1,1-DICHLOROETHYLENE
Concen: 0.20 PPBV
RT: 2.325 min Scan# 696
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2379

Ion	Ratio	Lower	Upper
96	100		
61	184.2	98.3	182.5#
63	57.3	33.2	61.7

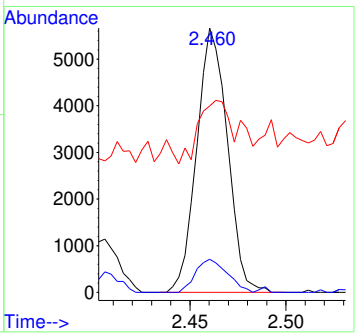


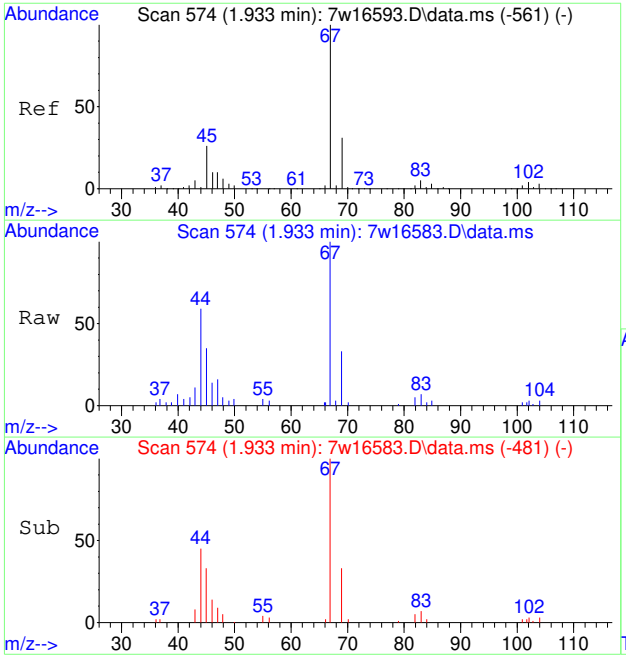


#27
CARBON DISULFIDE
Concen: 0.18 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 6298

Ion	Ratio	Lower	Upper
76	100		
78	13.5	8.3	15.3
44	32.0	13.0	24.1#

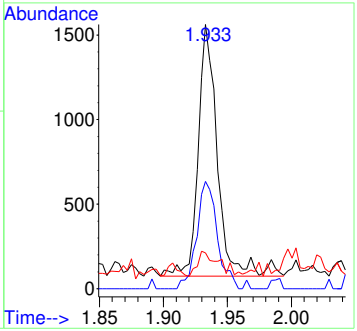


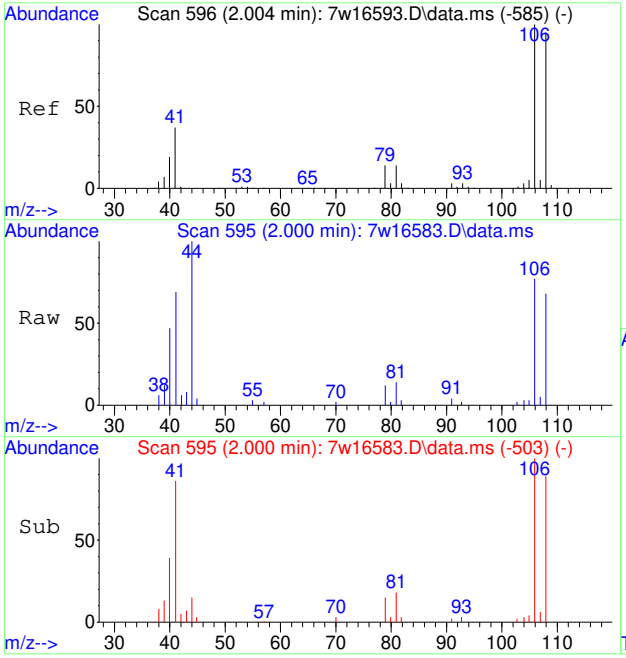


#28
ETHANOL
Concen: 0.23 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 45 Resp: 1573

Ion	Ratio	Lower	Upper
45	100		
46	45.7	29.7	55.1
42	11.8	7.3	13.5

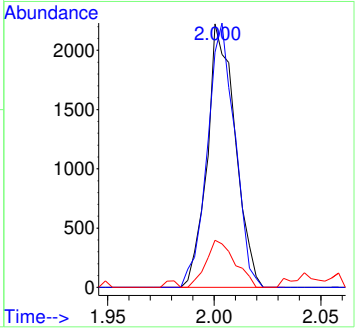


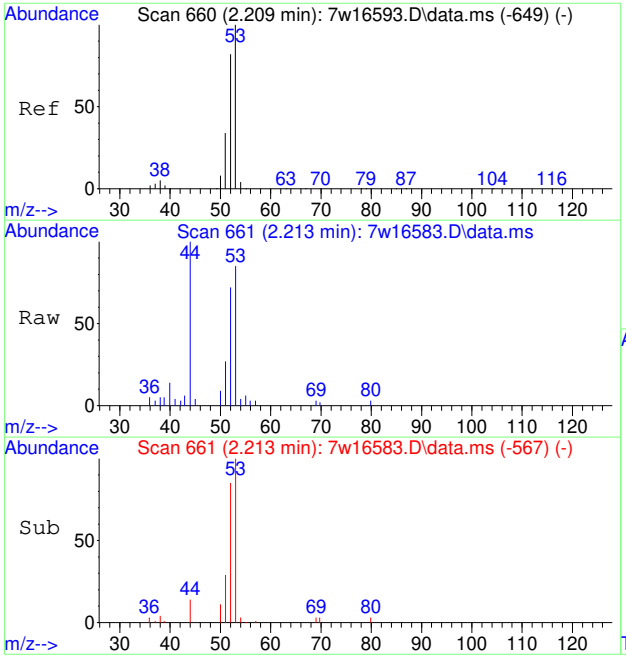


#29
BROMOETHENE
Concen: 0.18 PPBV
RT: 2.000 min Scan# 595
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:106 Resp: 2033

Ion	Ratio	Lower	Upper
106	100		
108	98.3	68.3	126.8
81	19.5	14.7	27.3

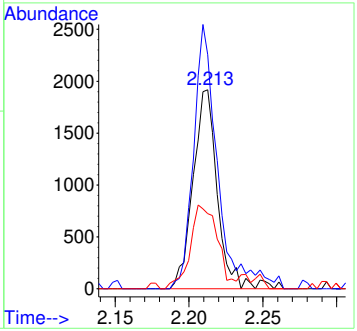


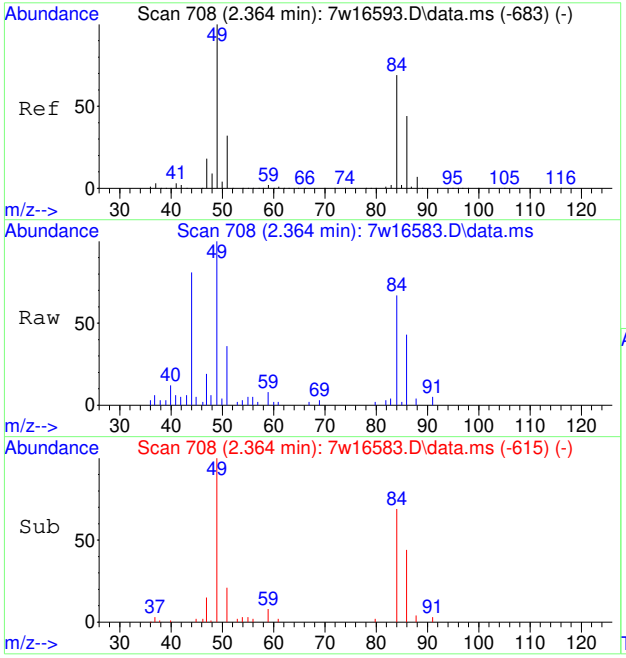


#30
ACRYLONITRILE
Concen: 0.22 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 52 Resp: 2213

Ion	Ratio	Lower	Upper
52	100		
53	130.7	86.3	160.3
51	48.0	33.6	62.4

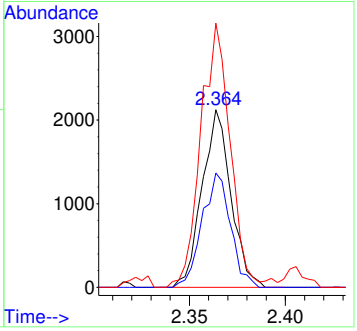


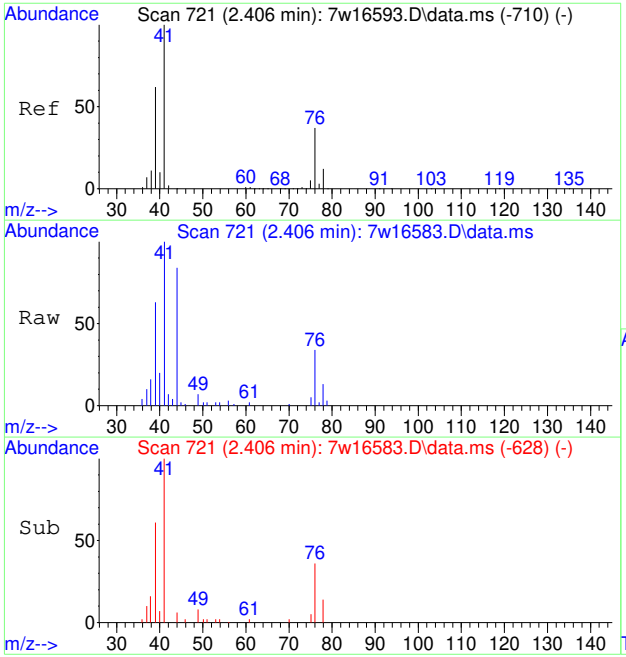


#31
METHYLENE CHLORIDE
Concen: 0.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 2222

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.9	83.5
49	150.6	79.7	148.1#

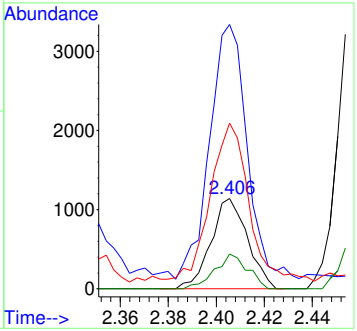


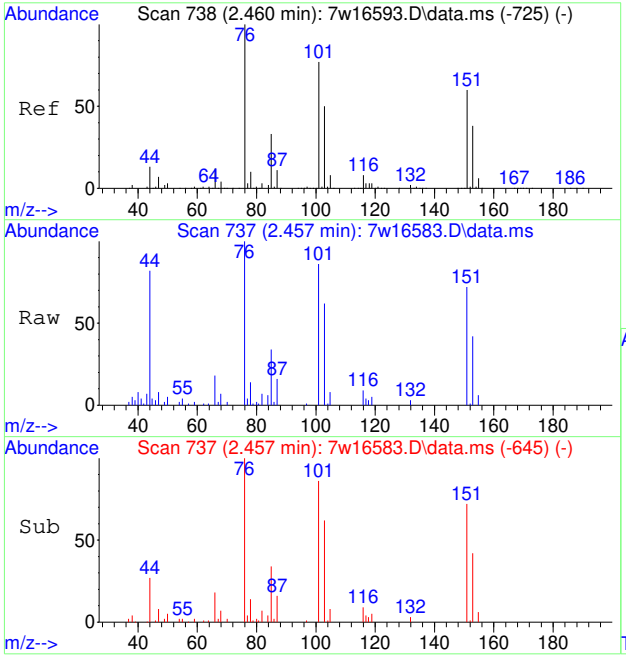


#32
3-CHLOROPROPENE
Concen: 0.19 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 1202

Ion	Ratio	Lower	Upper
76	100		
41	279.0	160.9	298.9
39	185.3	150.7	279.9
78	34.5	22.7	42.1

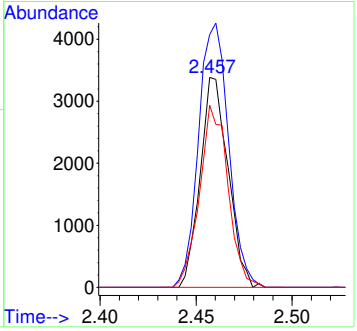


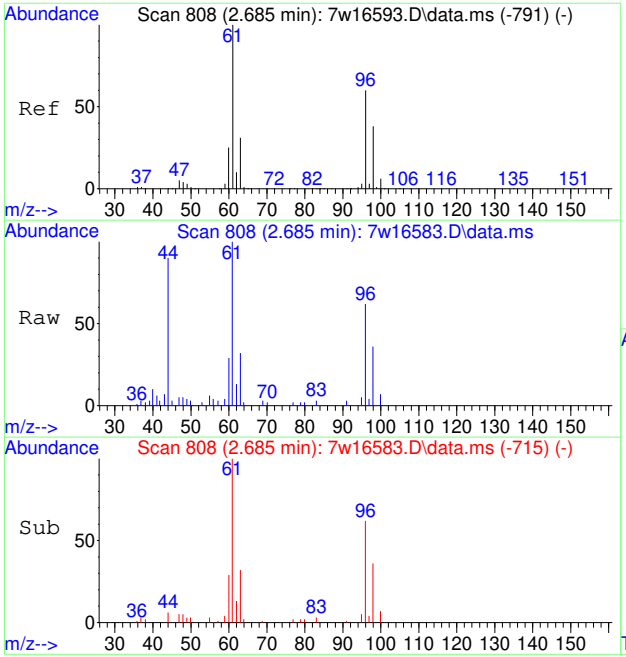


#33
FREON 113
Concen: 0.19 PPBV
RT: 2.457 min Scan# 737
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:151 Resp: 3430

Ion	Ratio	Lower	Upper
151	100		
101	135.4	81.1	150.7
103	88.3	51.4	95.4

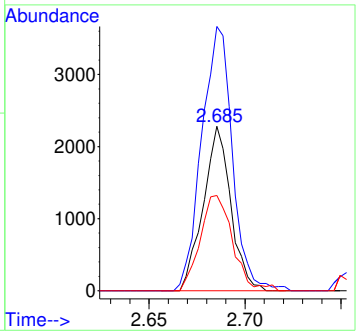


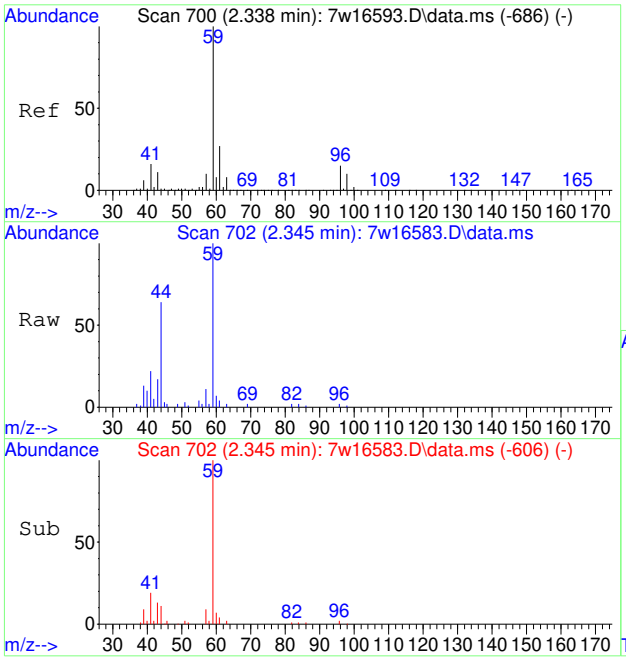


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.18 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2282

Ion	Ratio	Lower	Upper
96	100		
61	178.7	78.5	145.9#
98	68.1	46.5	86.3

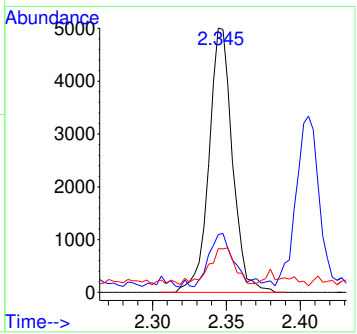


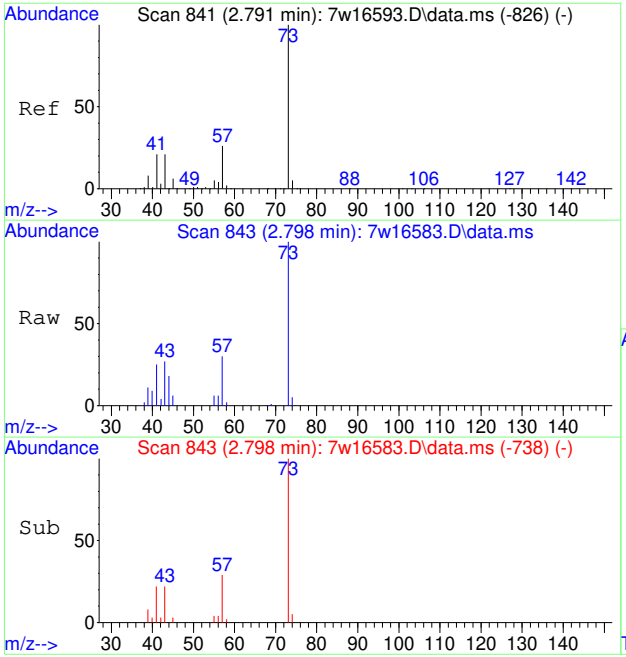


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.17 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 5515

Ion	Ratio	Lower	Upper
59	100		
41	22.6	15.3	28.5
43	15.4	12.3	22.9

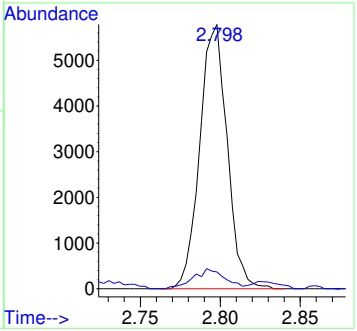


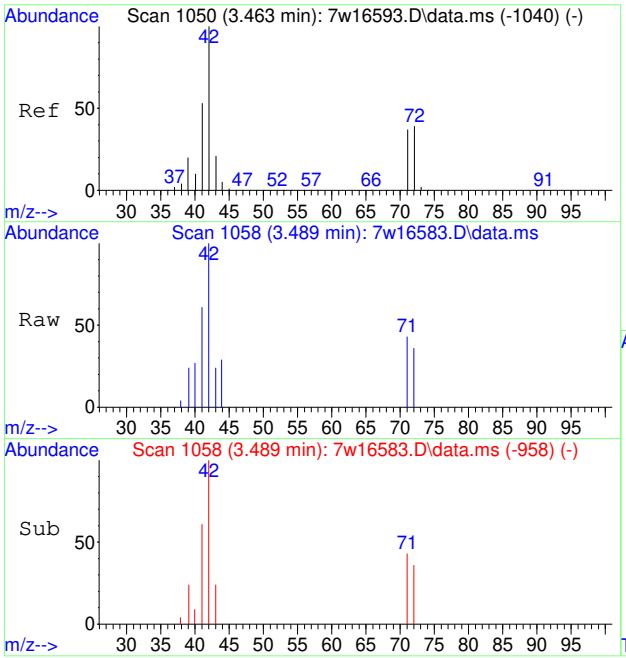


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.19 PPBV
RT: 2.798 min Scan# 843
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 73 Resp: 6887

Ion	Ratio	Lower	Upper
73	100		
45	8.7	3.4	6.4#

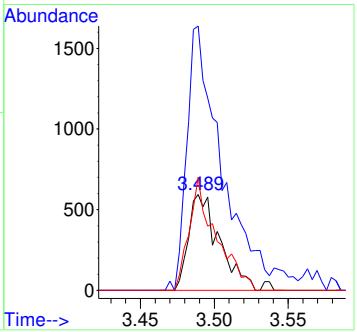


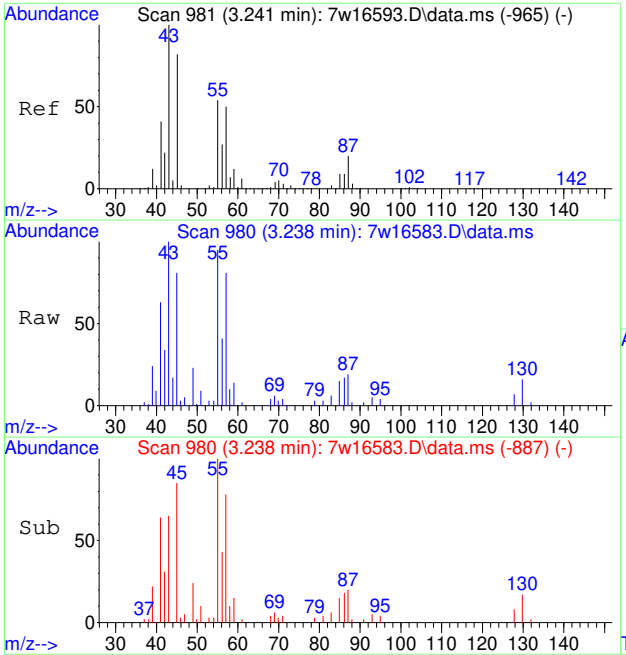


#37
TETRAHYDROFURAN
Concen: 0.14 PPBV
RT: 3.489 min Scan# 1058
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 887

Ion	Ratio	Lower	Upper
72	100		
42	327.1	153.0	284.2#
71	100.5	62.7	116.5

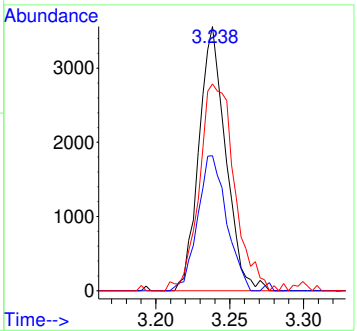


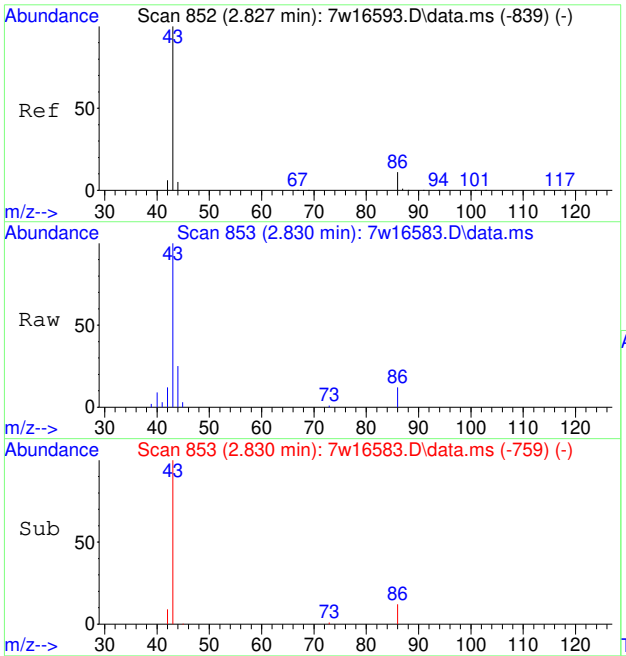


#38
HEXANE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 4468

Ion	Ratio	Lower	Upper
57	100		
56	56.0	37.3	69.3
41	104.9	86.7	161.1

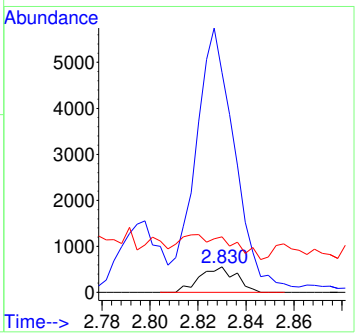


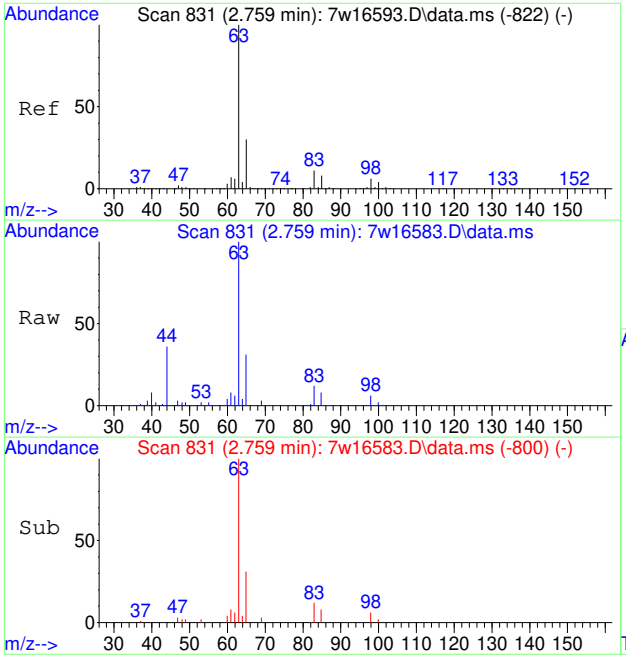


#39
VINYL ACETATE
Concen: 0.16 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 86 Resp: 581

Ion	Ratio	Lower	Upper
86	100		
43	1147.3	667.9	1240.3
44	110.5	32.7	60.7#

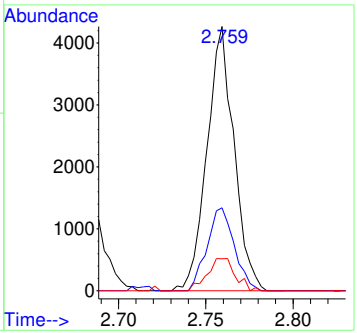


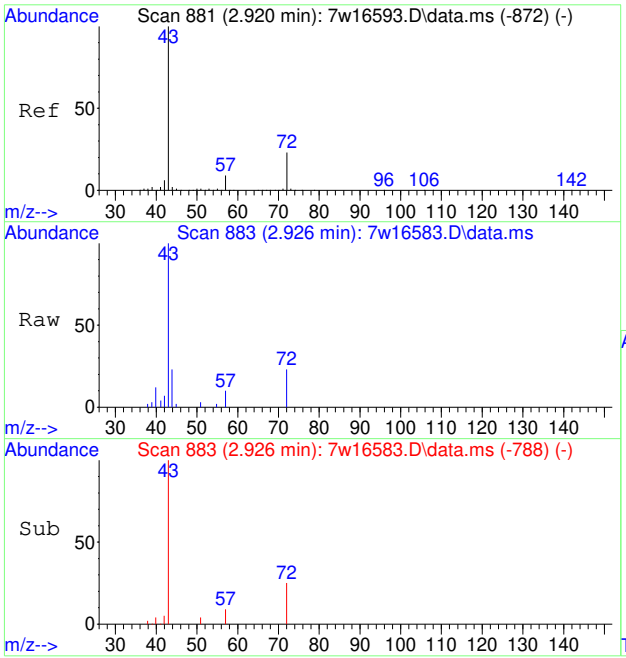


#40
1,1-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 4599

Ion	Ratio	Lower	Upper
63	100		
65	31.7	21.8	40.6
83	12.7	10.6	19.6

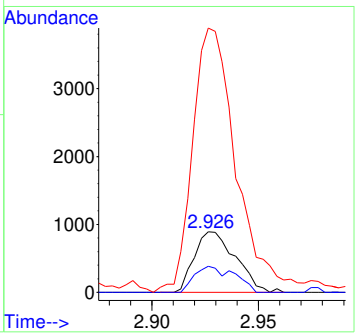


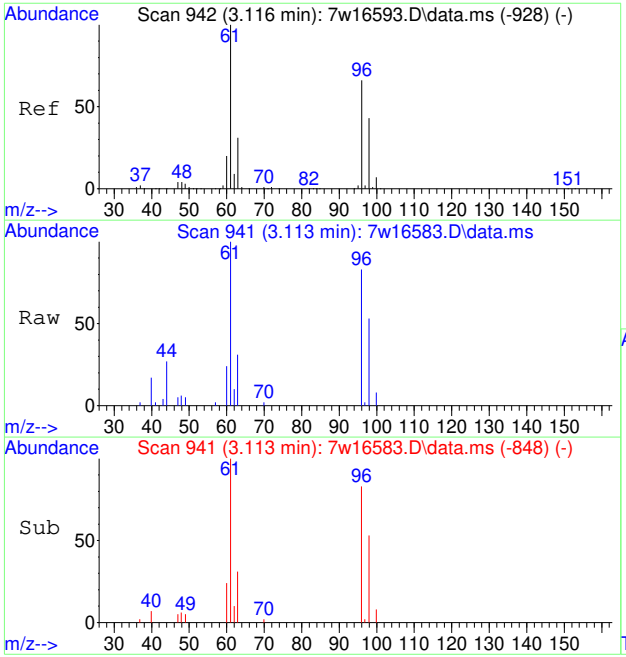


#41
METHYL ETHYL KETONE
Concen: 0.18 PPBV
RT: 2.926 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 72 Resp: 1205

Ion	Ratio	Lower	Upper
72	100		
57	41.7	20.3	37.7#
43	447.8	282.8	525.2

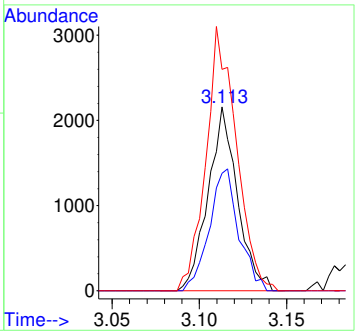


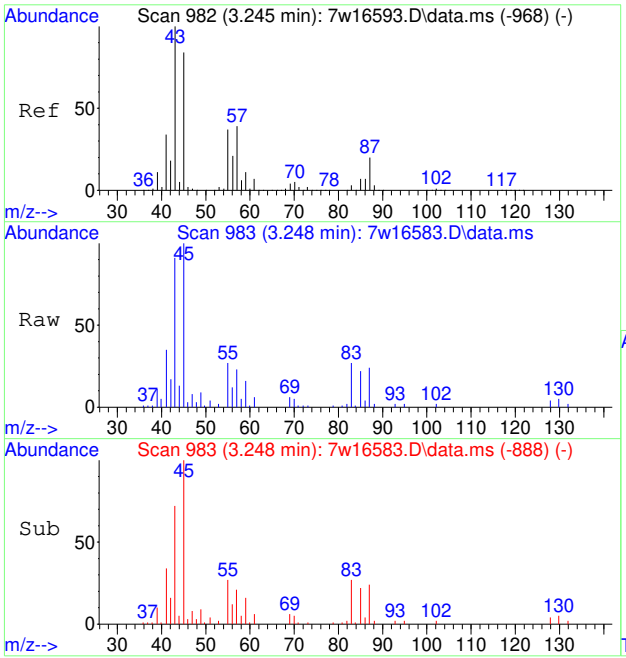


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.19 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 96 Resp: 2527

Ion	Ratio	Lower	Upper
96	100		
98	66.4	46.8	86.8
61	148.8	78.3	145.5#

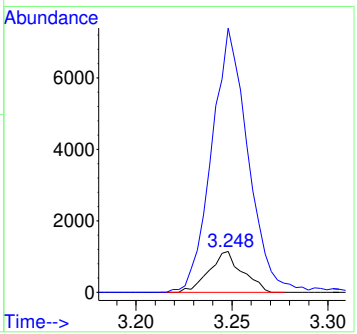


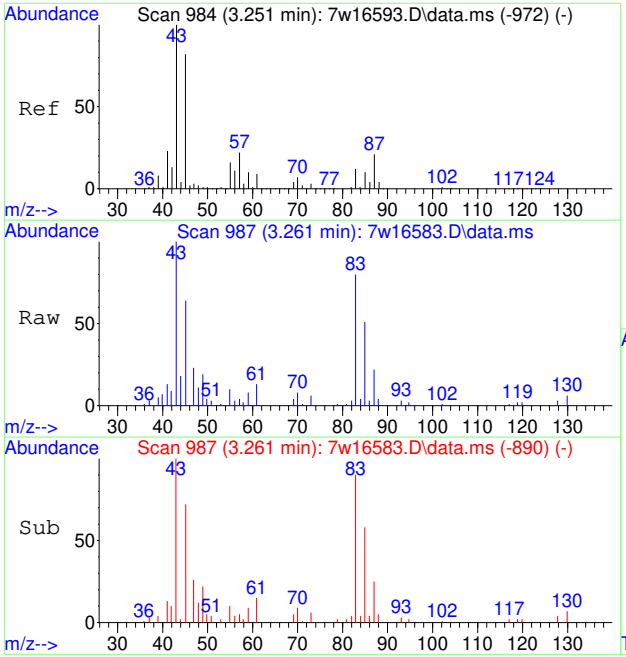


#43
DIISOPROPYL ETHER
Concen: 0.20 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 59 Resp: 1371

Ion	Ratio	Lower	Upper
59	100		
45	718.4	532.1	988.1

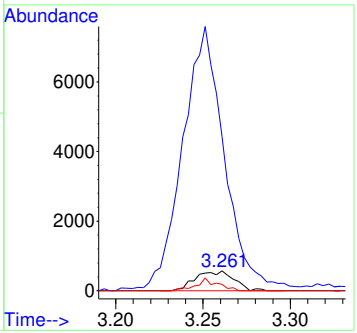


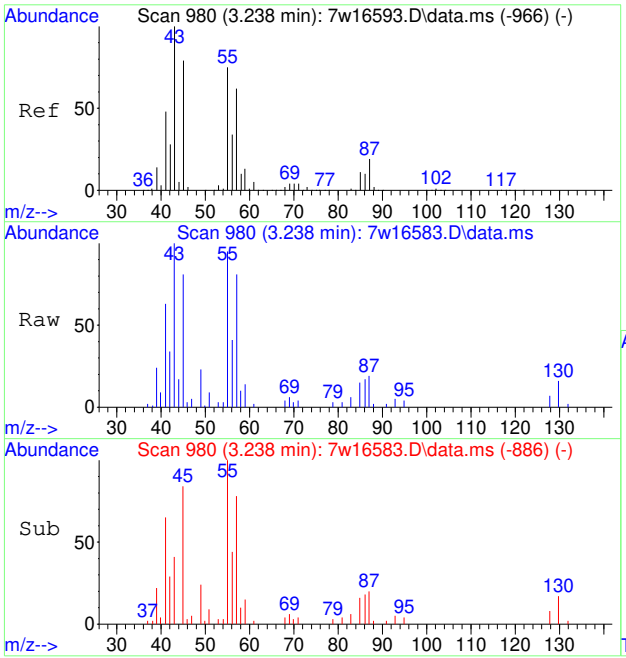


#44
ETHYL ACETATE
Concen: 0.18 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 61 Resp: 871

Ion	Ratio	Lower	Upper
61	100		
43	1463.9	1127.5	2093.9
88	36.2	36.2	67.2#

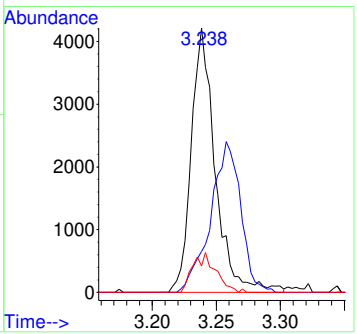


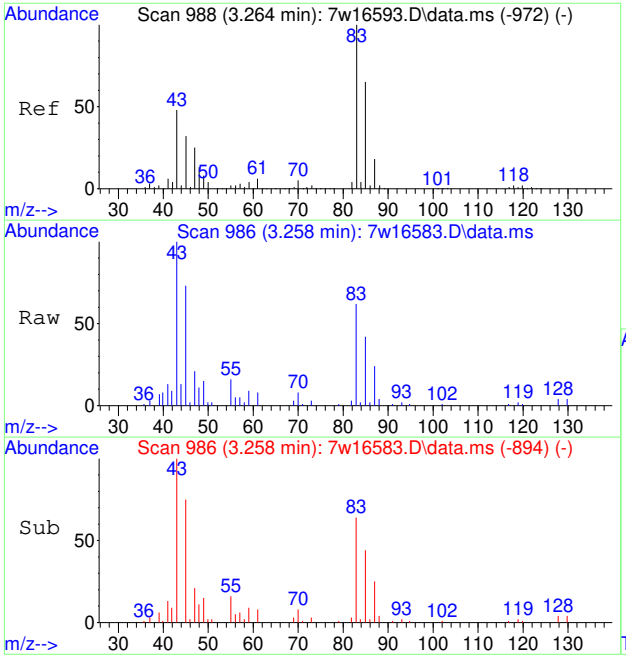


#45
METHYL ACRYLATE
Concen: 0.18 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 5488

Ion	Ratio	Lower	Upper
55	100		
85	71.8	0.0	0.0#
58	14.5	9.2	17.0

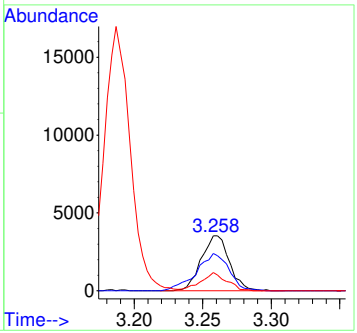


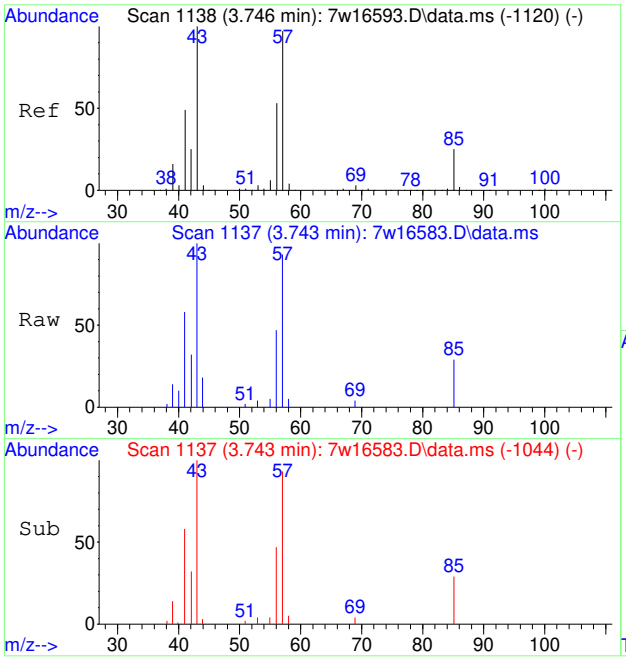


#46
CHLOROFORM
Concen: 0.19 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5027

Ion	Ratio	Lower	Upper
83	100		
85	78.4	54.6	101.4
47	30.5	17.9	33.3

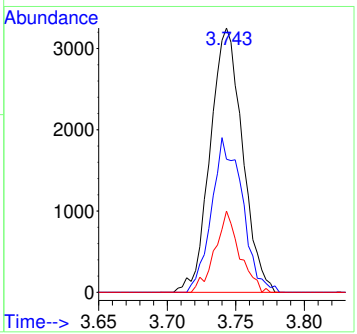


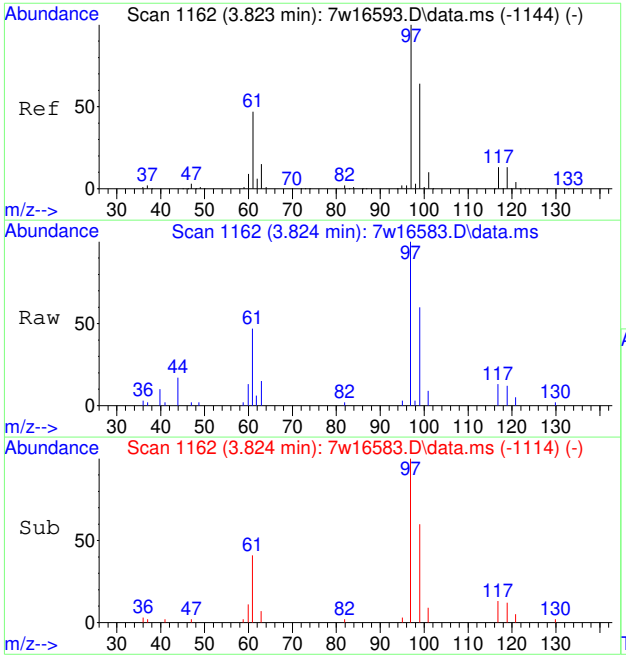


#47
2,4-DIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 5307

Ion	Ratio	Lower	Upper
57	100		
56	55.9	39.2	72.8
85	23.6	24.1	44.7#

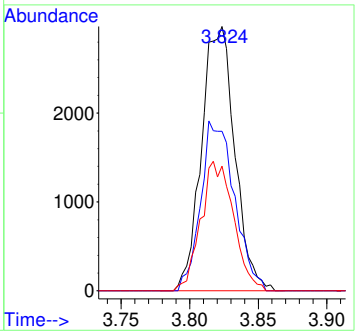


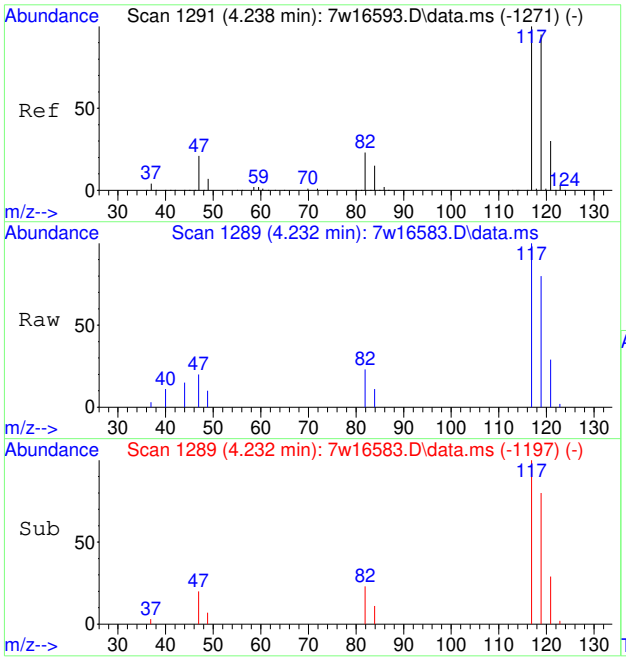


#48
1,1,1-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 97 Resp: 5006

Ion	Ratio	Lower	Upper
97	100		
99	64.9	44.9	83.5
61	48.3	28.6	53.0

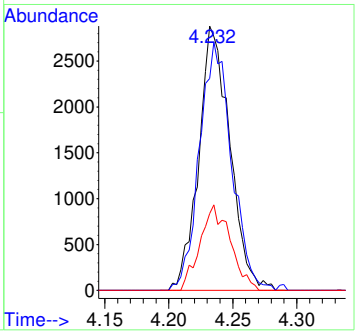


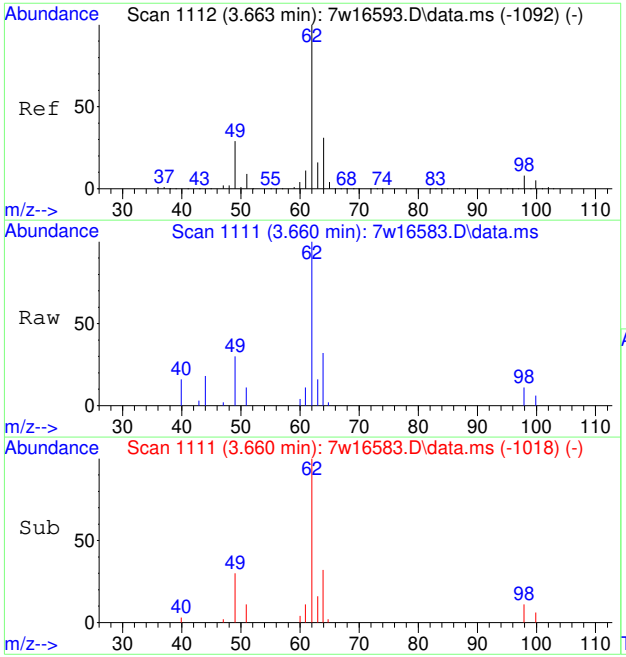


#49
CARBON TETRACHLORIDE
Concen: 0.16 PPBV
RT: 4.232 min Scan# 1289
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 4884

Ion	Ratio	Lower	Upper
117	100		
119	97.2	68.8	127.8
121	31.6	22.2	41.2

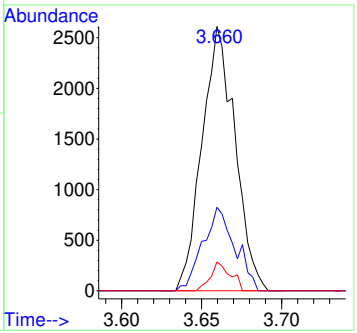


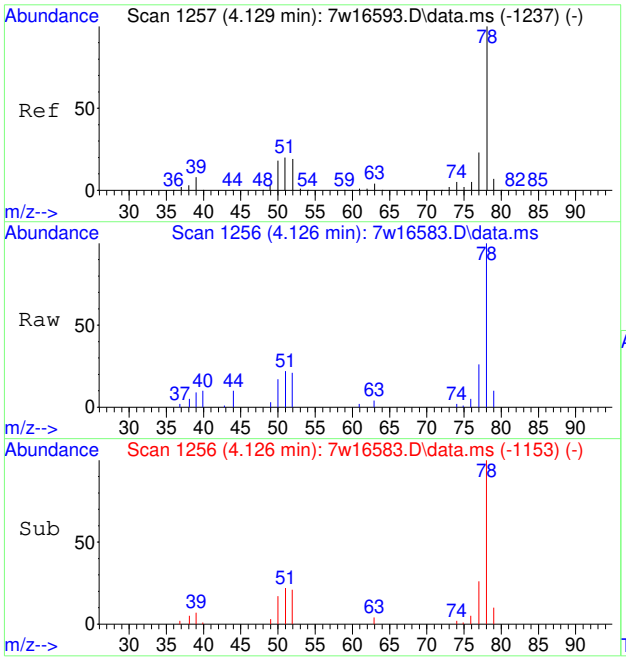


#50
1,2-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 3.660 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 62 Resp: 3746

Ion	Ratio	Lower	Upper
62	100		
64	30.7	22.5	41.7
98	6.6	6.8	12.6#

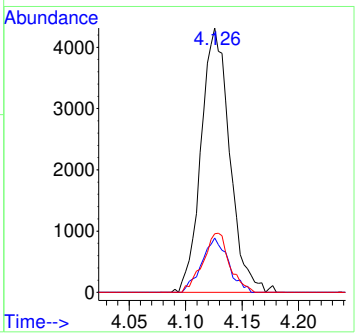


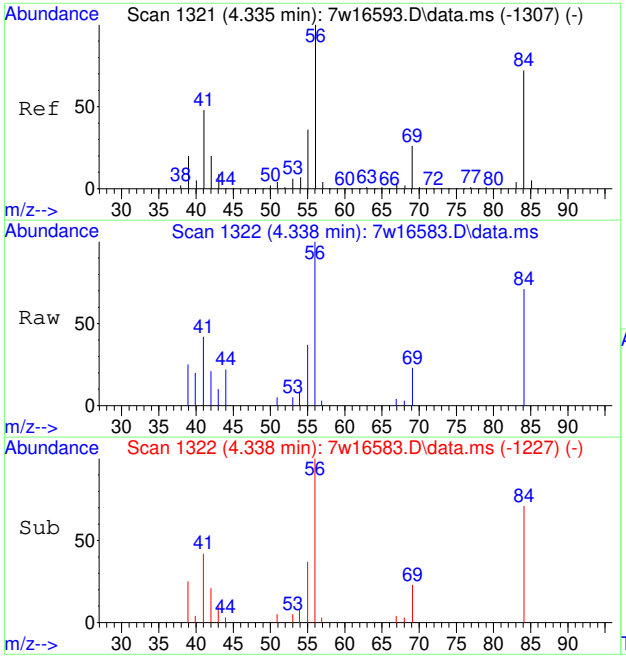


#51
BENZENE
Concen: 0.19 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 78 Resp: 7569

Ion	Ratio	Lower	Upper
78	100		
52	19.2	0.0	44.6
51	20.8	0.0	47.3

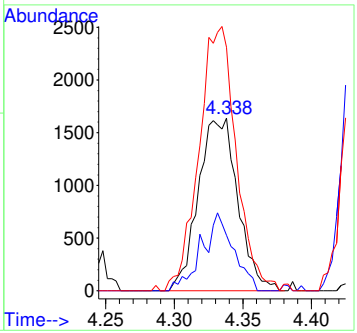


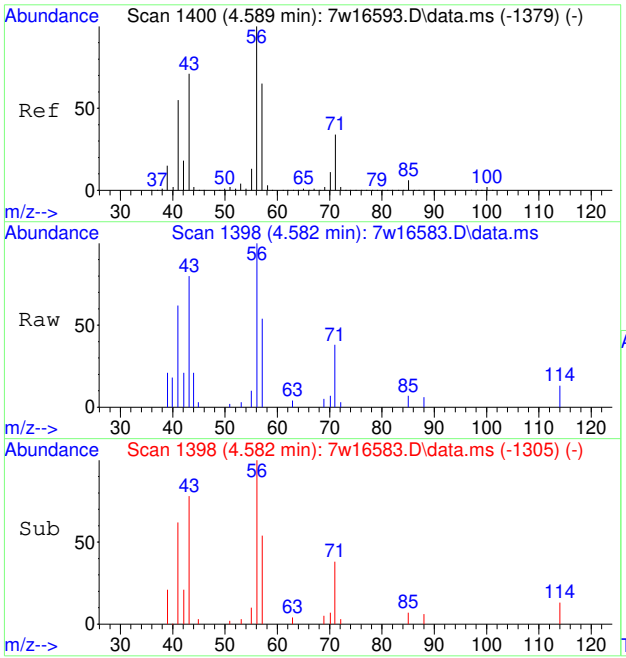


#53
CYCLOHEXANE
Concen: 0.18 PPBV
RT: 4.338 min Scan# 1322
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 84 Resp: 3276

Ion	Ratio	Lower	Upper
84	100		
69	36.2	22.3	41.5
56	145.6	70.2	130.4#

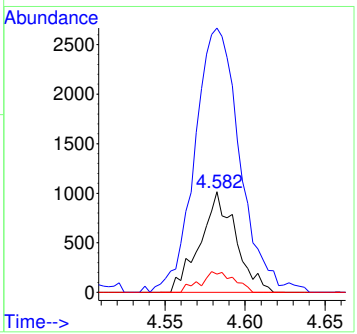


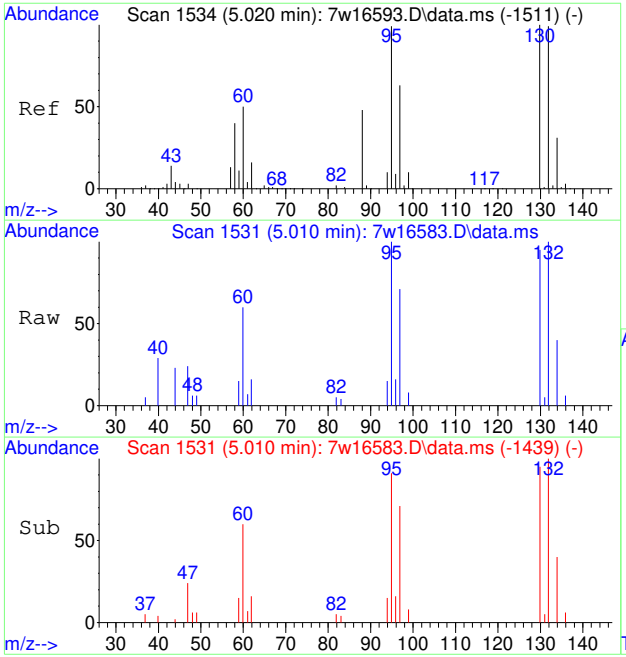


#54
2,3-DIMETHYLPENTANE
Concen: 0.17 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 71 Resp: 1571

Ion	Ratio	Lower	Upper
71	100		
56	333.0	171.4	318.4#
85	19.6	12.6	23.4

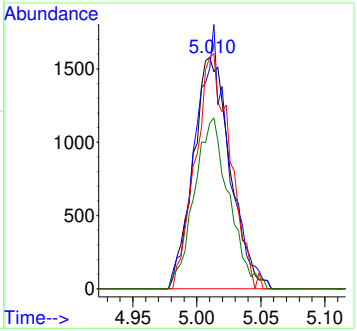


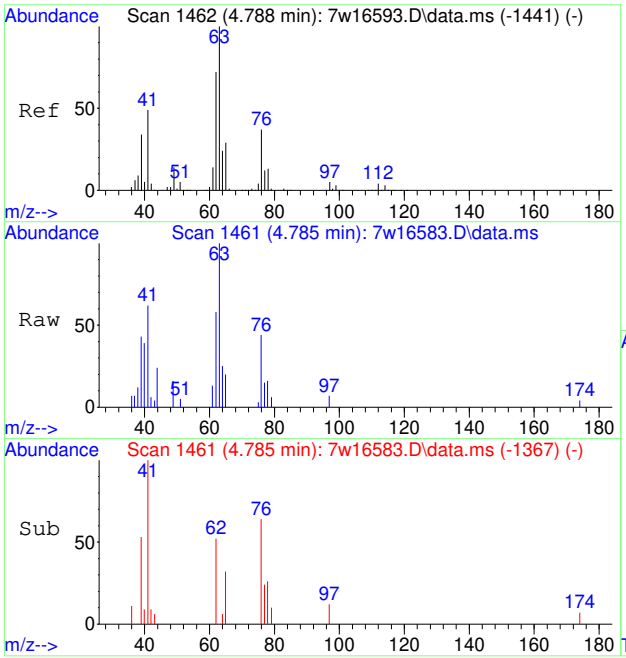


#55
TRICHLOROETHENE
Concen: 0.17 PPBV
RT: 5.010 min Scan# 1531
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 95 Resp: 3186

Ion	Ratio	Lower	Upper
95	100		
130	100.2	85.9	159.5
132	95.3	79.4	147.4
97	69.5	45.0	83.6

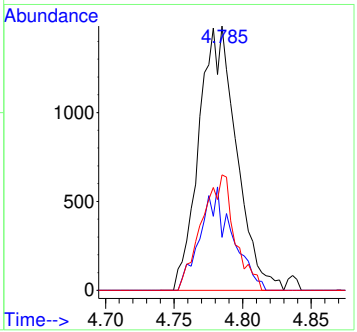


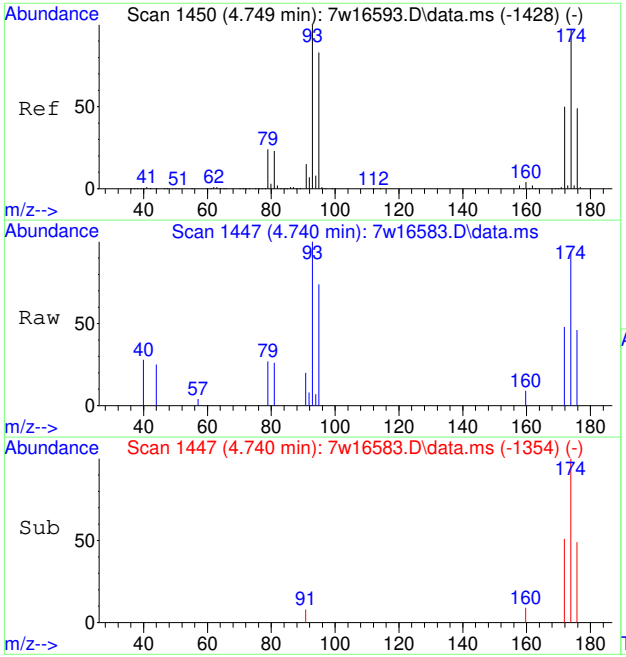


#56
1,2-DICHLOROPROPANE
Concen: 0.17 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 63 Resp: 2832

Ion	Ratio	Lower	Upper
63	100		
65	33.3	22.6	42.0
76	38.5	31.8	59.0

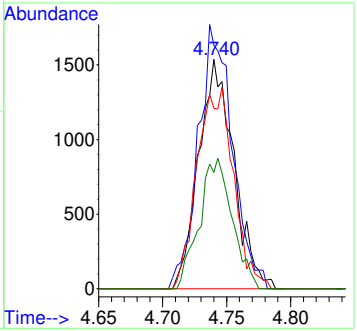


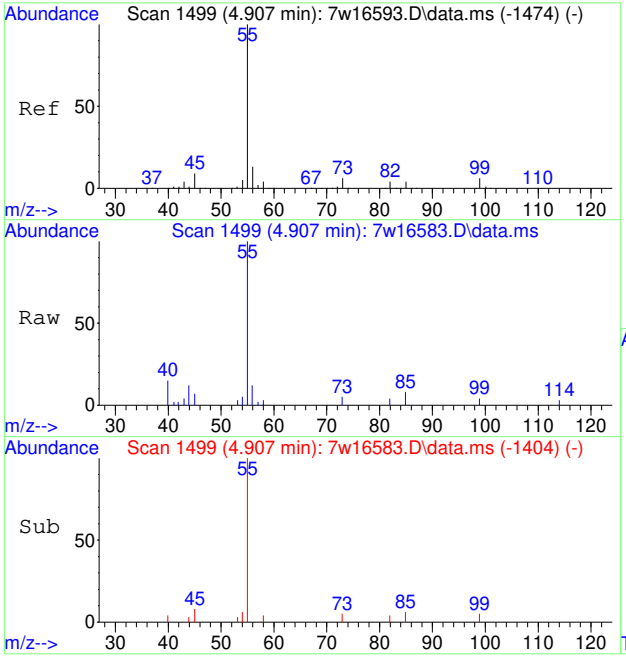


#57
DIBROMOMETHANE
Concen: 0.19 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:174 Resp: 2923

Ion	Ratio	Lower	Upper
174	100		
93	112.0	67.3	125.1
95	91.2	56.8	105.6
172	53.5	36.3	67.5

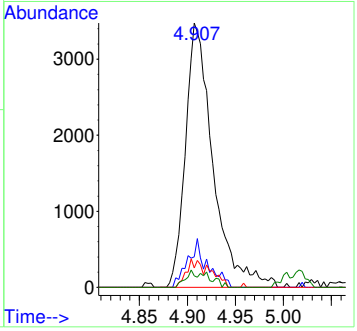


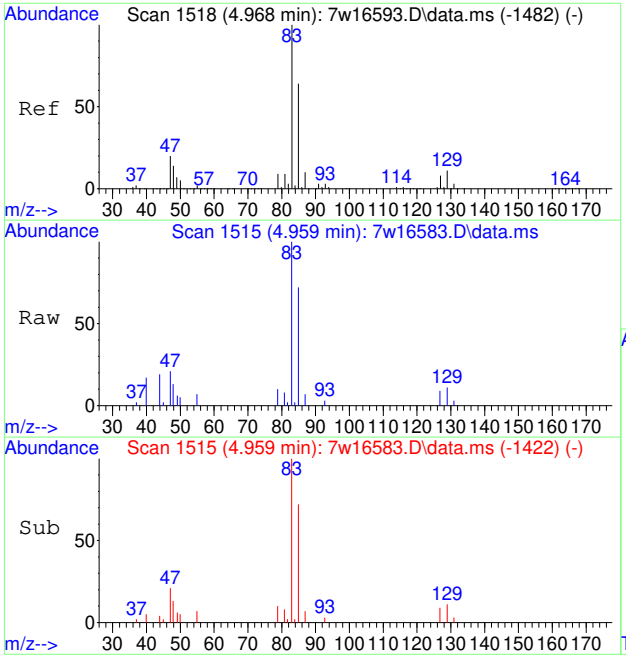


#58
ETHYL ACRYLATE
Concen: 0.18 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 55 Resp: 6937

Ion	Ratio	Lower	Upper
55	100		
56	13.2	7.9	14.7
45	9.0	6.6	12.2
99	5.3	6.2	11.6#

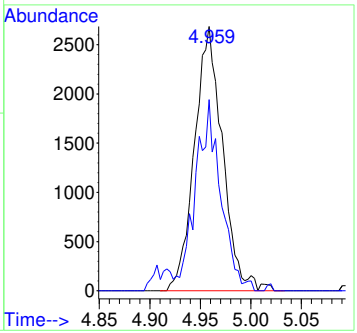


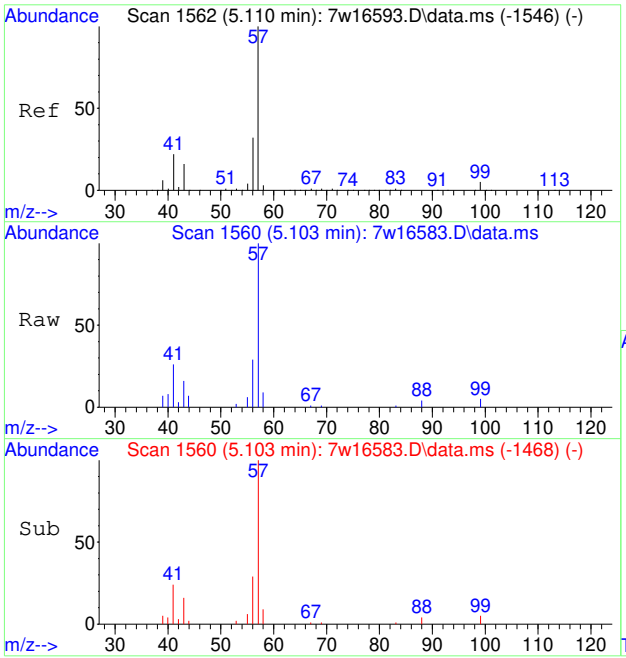


#59
BROMODICHLOROMETHANE
Concen: 0.16 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 5187

Ion	Ratio	Lower	Upper
83	100		
85	70.2	44.9	83.5

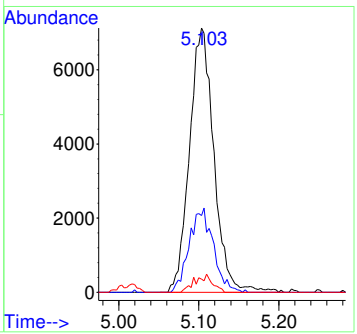


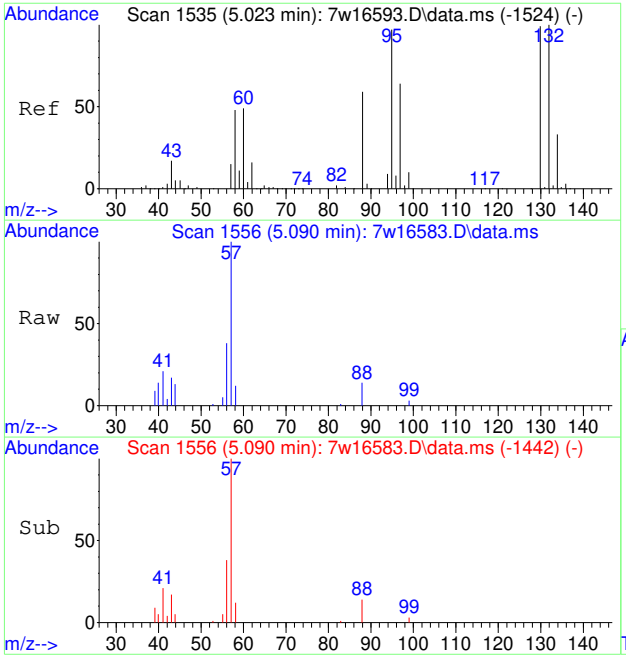


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.19 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 57 Resp: 15119

Ion	Ratio	Lower	Upper
57	100		
56	31.5	24.4	45.2
99	4.9	5.2	9.6#

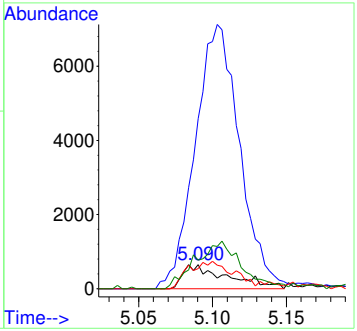


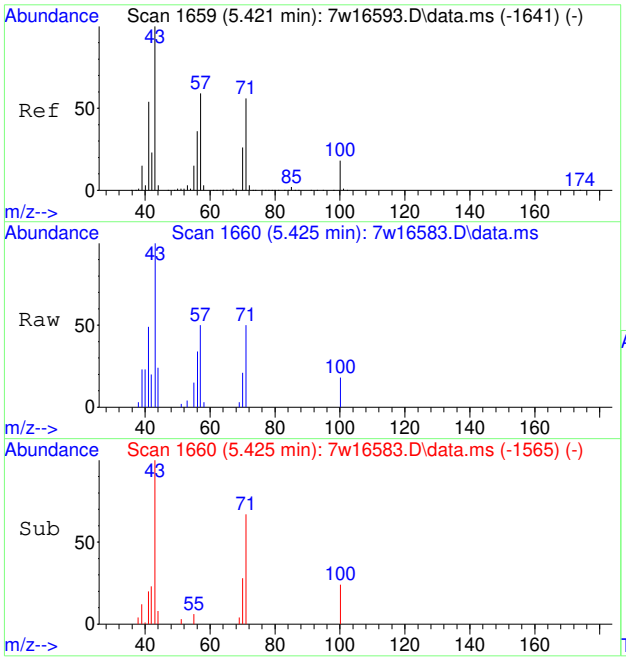


#61
1,4-DIOXANE
Concen: 0.15 PPBV
RT: 5.090 min Scan# 1556
Delta R.T. 0.068 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 88 Resp: 1375

Ion	Ratio	Lower	Upper
88	100		
57	1099.6	13.1	24.3#
58	117.7	39.1	72.5#
43	219.3	18.3	33.9#

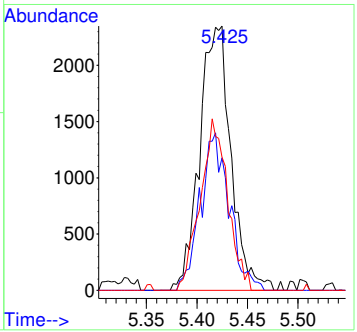


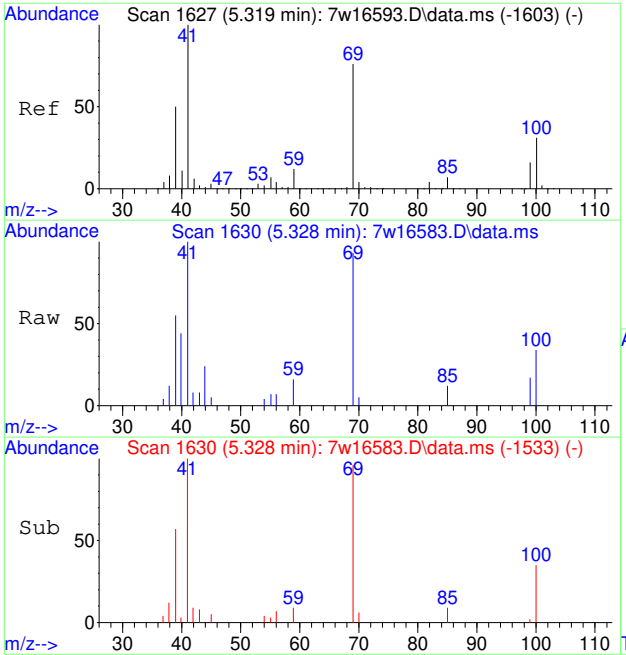


#62
HEPTANE
Concen: 0.19 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 5077

Ion	Ratio	Lower	Upper
43	100		
71	55.1	45.0	83.6
57	56.5	37.2	69.0

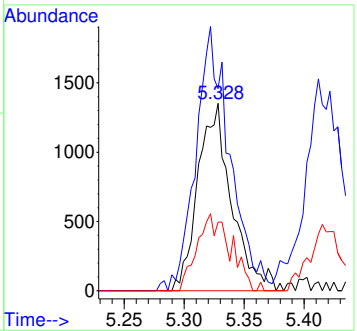


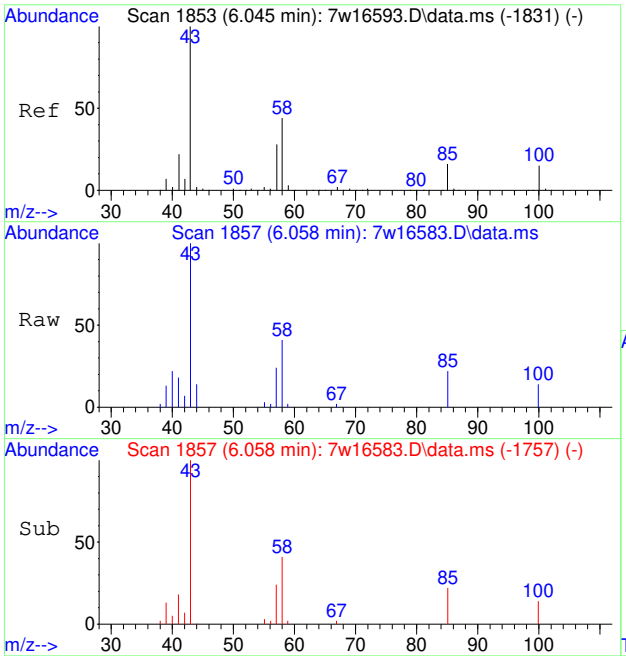


#63
METHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 5.328 min Scan# 1630
Delta R.T. 0.013 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 2638

Ion	Ratio	Lower	Upper
69	100		
41	142.4	84.3	156.5
100	41.0	30.8	57.2

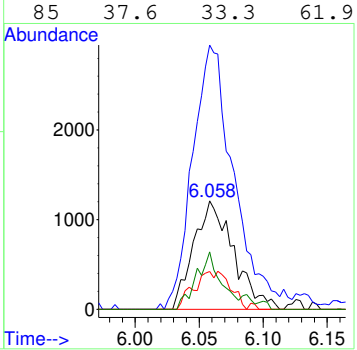


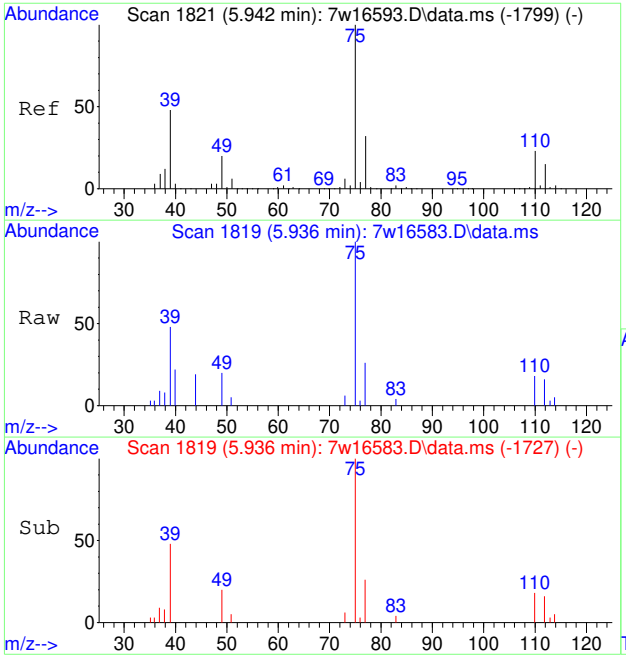


#64
METHYL ISOBUTYL KETONE
Concen: 0.17 PPBV
RT: 6.058 min Scan# 1857
Delta R.T. 0.023 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 2634

Ion	Ratio	Lower	Upper
58	100		
43	259.0	193.8	360.0
100	32.5	32.8	60.8#
85	37.6	33.3	61.9

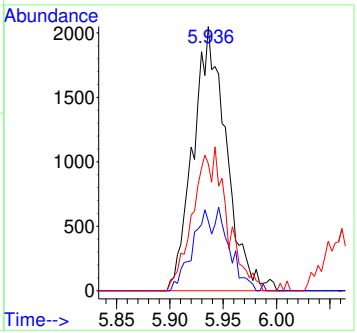


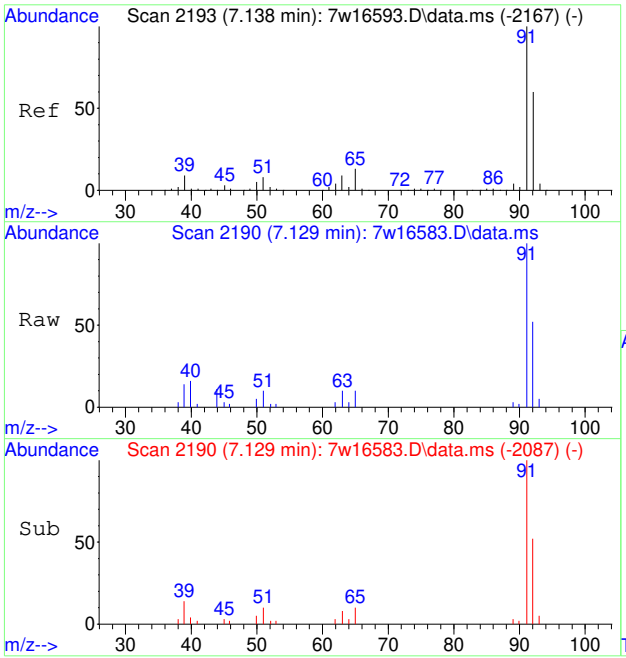


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.17 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 4430

Ion	Ratio	Lower	Upper
75	100		
77	32.6	22.0	40.8
39	55.6	38.5	71.5

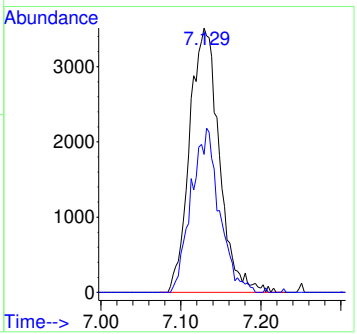


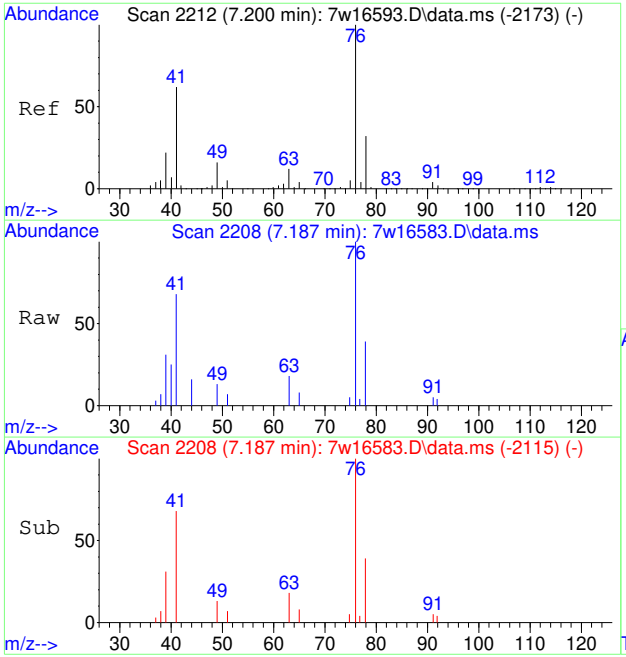


#66
TOLUENE
Concen: 0.19 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9065

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

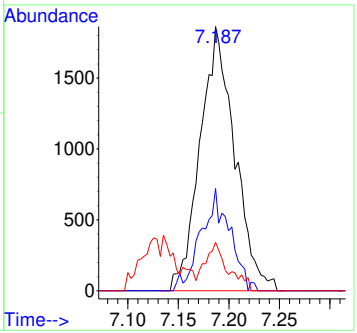


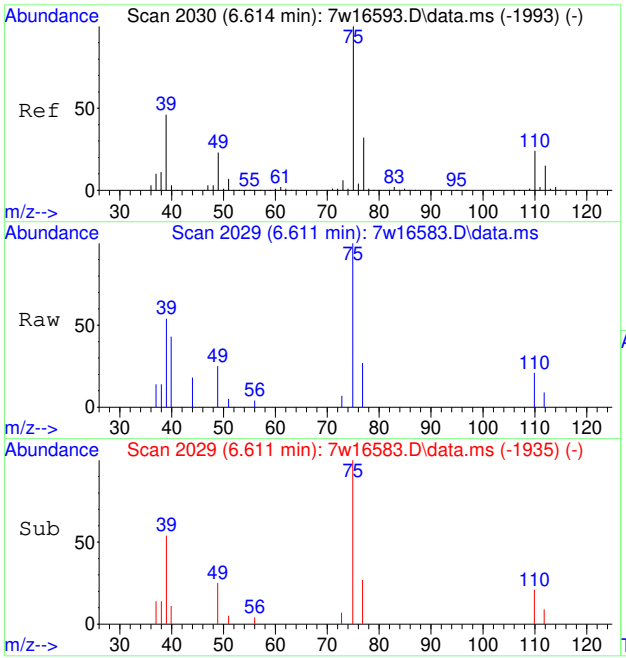


#67
1,3-DICHLOROPROPANE
Concen: 0.18 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 76 Resp: 4438

Ion	Ratio	Lower	Upper
76	100		
78	32.2	22.1	41.1
63	12.5	8.0	14.8

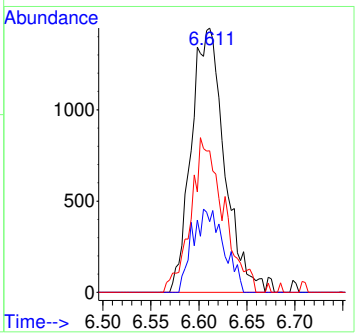


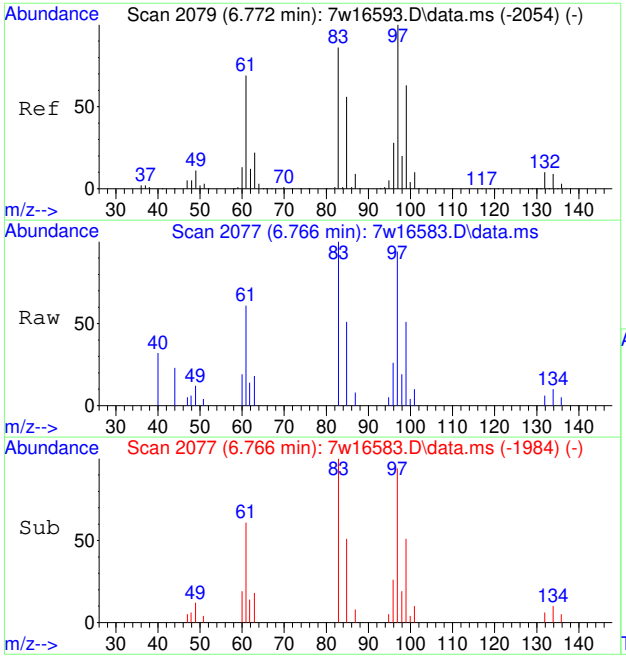


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.14 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 3506

Ion	Ratio	Lower	Upper
75	100		
77	29.5	22.5	41.7
39	57.2	37.2	69.0

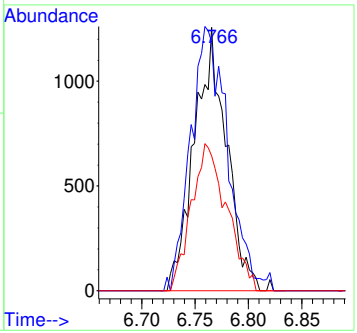


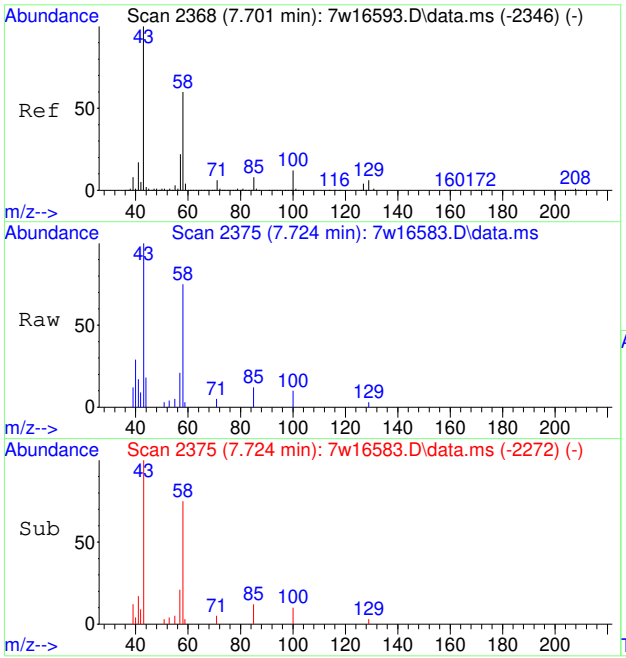


#69
1,1,2-TRICHLOROETHANE
Concen: 0.18 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
97	116.1	86.7	160.9
85	61.6	45.5	84.5

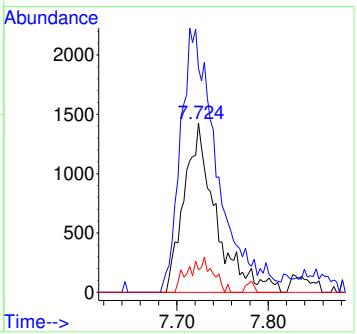


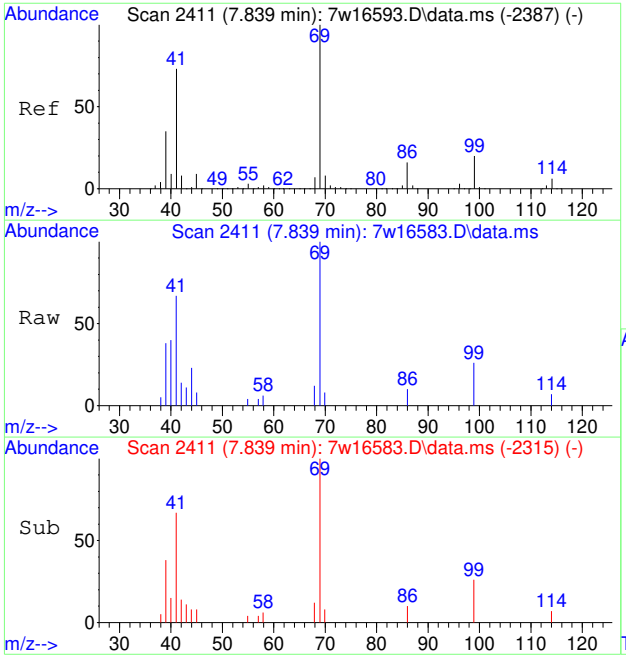


#70
2-HEXANONE
Concen: 0.17 PPBV
RT: 7.724 min Scan# 2375
Delta R.T. 0.032 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 58 Resp: 3463

Ion	Ratio	Lower	Upper
58	100		
43	179.8	141.7	263.3
100	15.7	18.9	35.1#

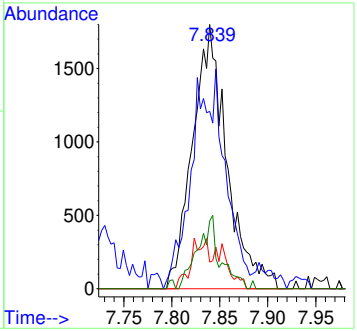


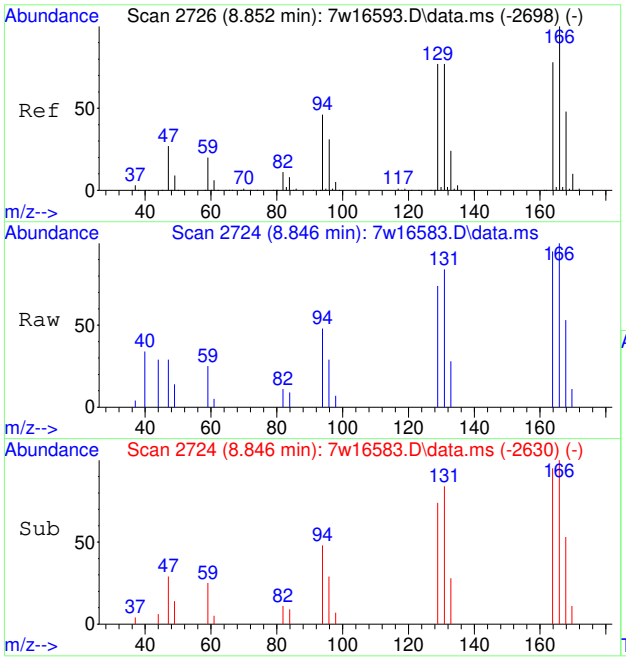


#71
ETHYL METHACRYLATE
Concen: 0.17 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 69 Resp: 4472

Ion	Ratio	Lower	Upper
69	100		
41	82.5	49.3	91.6
86	7.3	11.6	21.6#
99	18.8	13.4	24.8

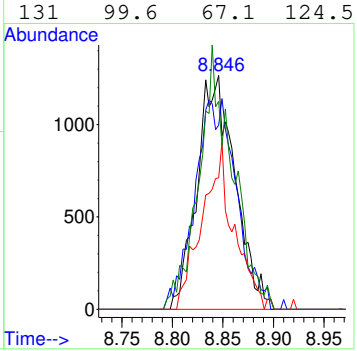


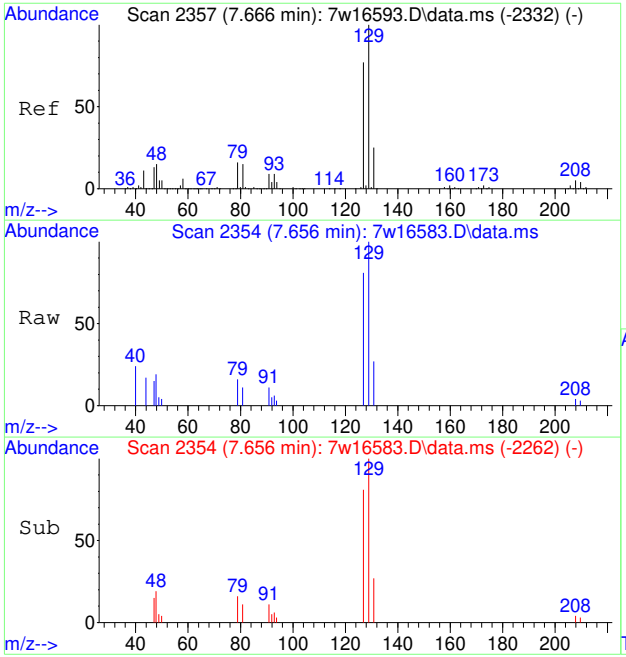


#72
TETRACHLOROETHENE
Concen: 0.19 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:164 Resp: 3315

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.7	129.5
168	59.1	43.4	80.6
131	99.6	67.1	124.5

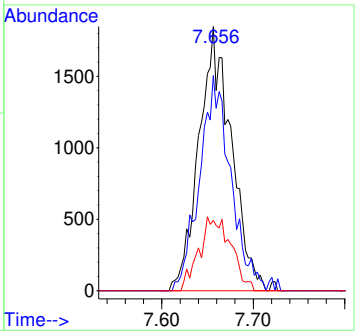


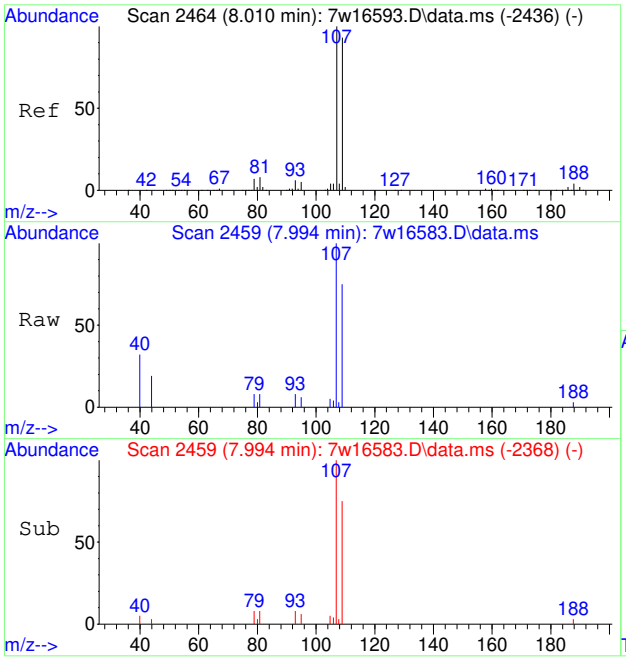


#73
DIBROMOCHLOROMETHANE
Concen: 0.15 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:129 Resp: 4563

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	27.4	16.9	31.3

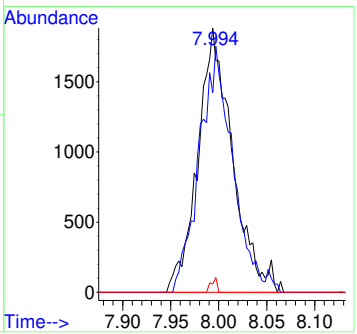


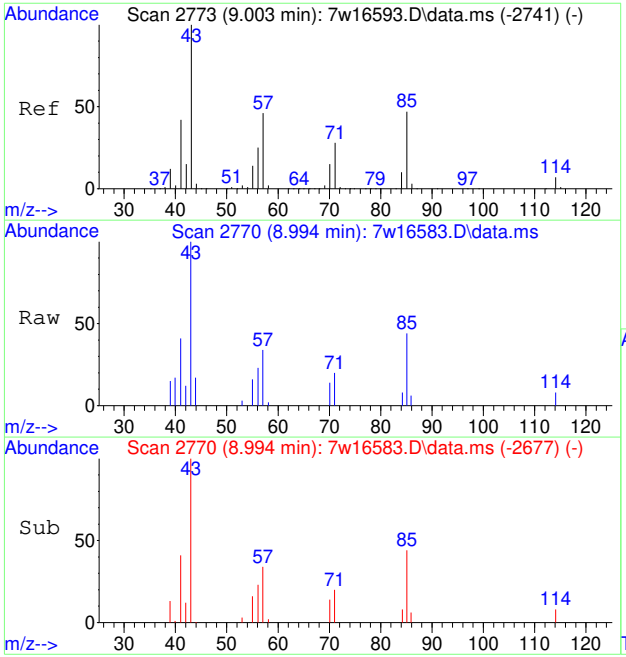


#74
1,2-DIBROMOETHANE
Concen: 0.19 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:107 Resp: 4734

Ion	Ratio	Lower	Upper
107	100		
109	91.0	65.7	122.1
188	0.0	2.4	4.4#

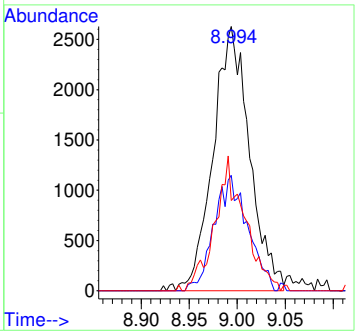


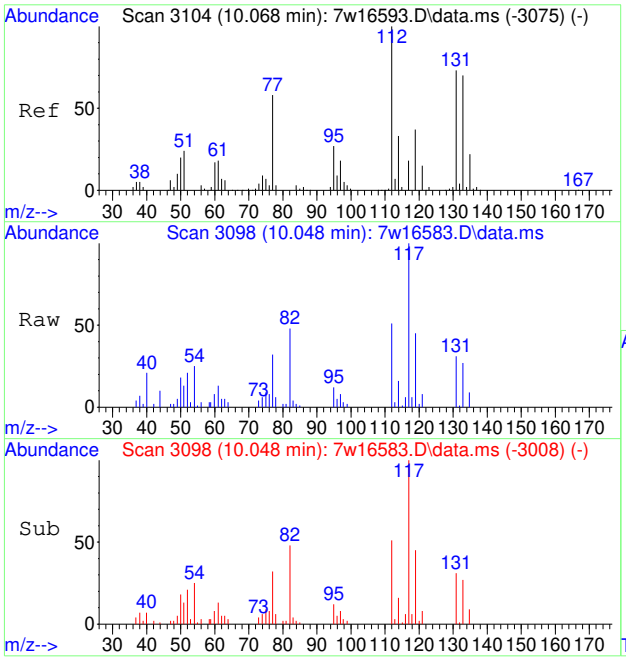


#75
OCTANE
Concen: 0.19 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 6956

Ion	Ratio	Lower	Upper
43	100		
85	40.7	36.5	67.9
57	41.8	27.6	51.2

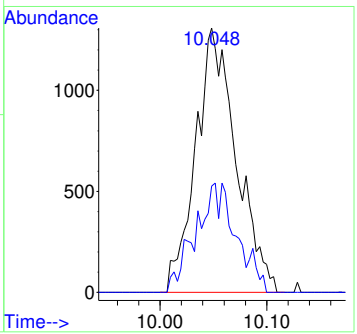


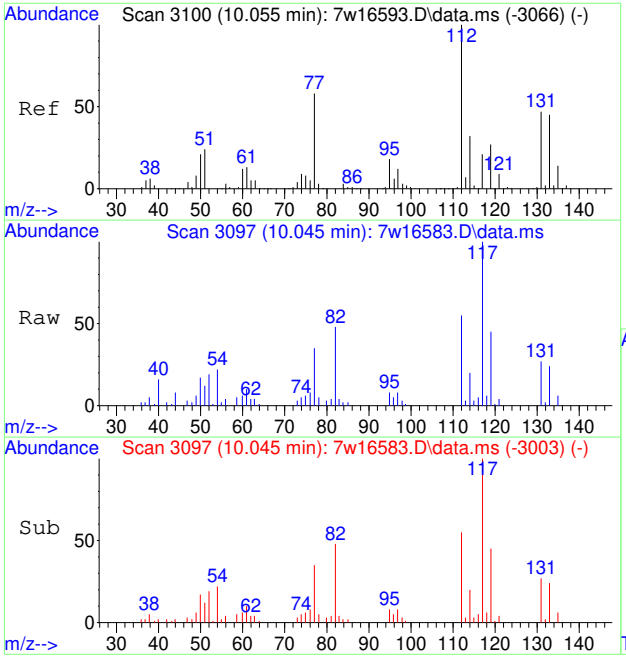


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.16 PPBV
RT: 10.048 min Scan# 3098
Delta R.T. -0.009 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:131 Resp: 3463

Ion	Ratio	Lower	Upper
131	100		
95	41.4	23.7	43.9

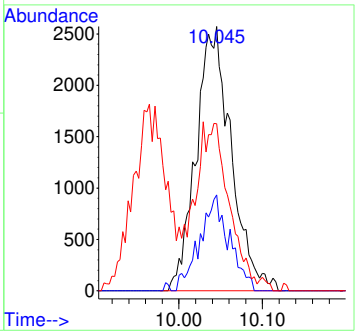


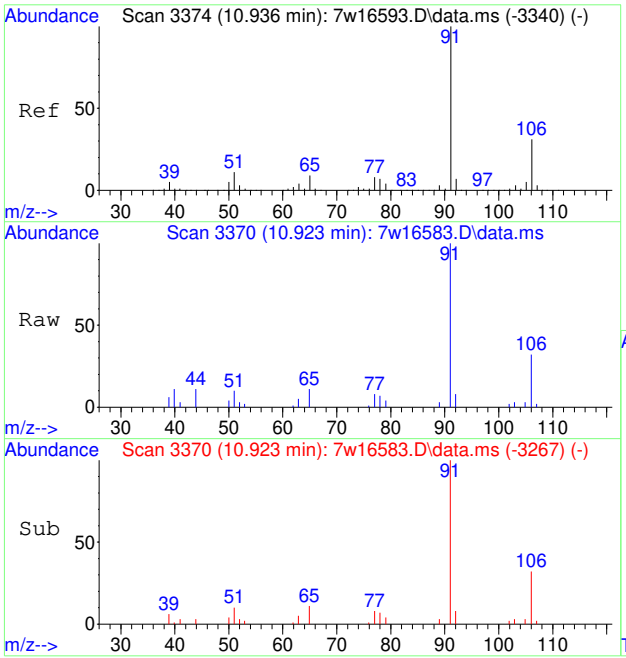


#78
CHLOROBENZENE
Concen: 0.19 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:112 Resp: 7506

Ion	Ratio	Lower	Upper
112	100		
114	30.5	22.9	42.5
77	62.6	34.4	63.8

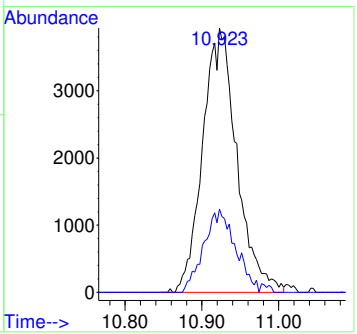


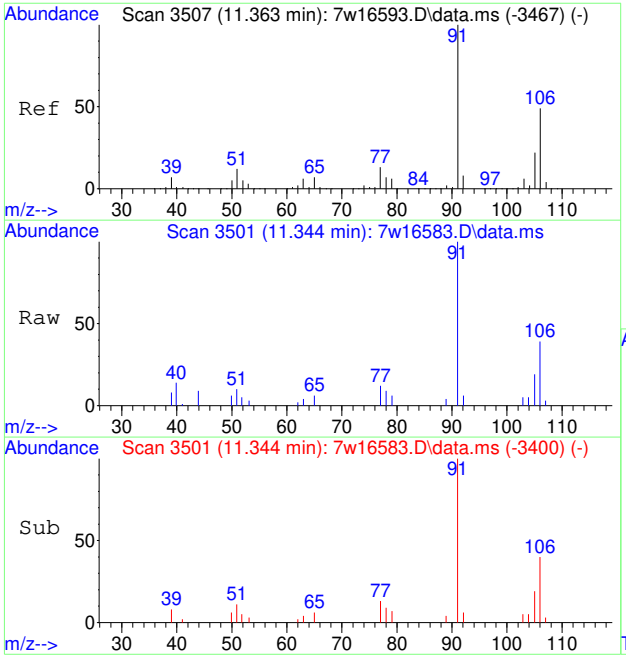


#79
ETHYLBENZENE
Concen: 0.19 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 12148

Ion	Ratio	Lower	Upper
91	100		
106	29.0	2.8	62.8

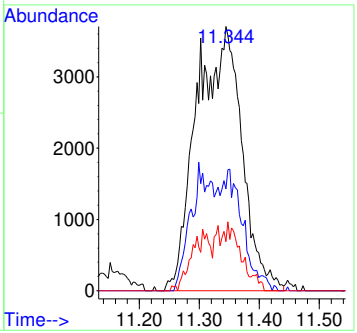


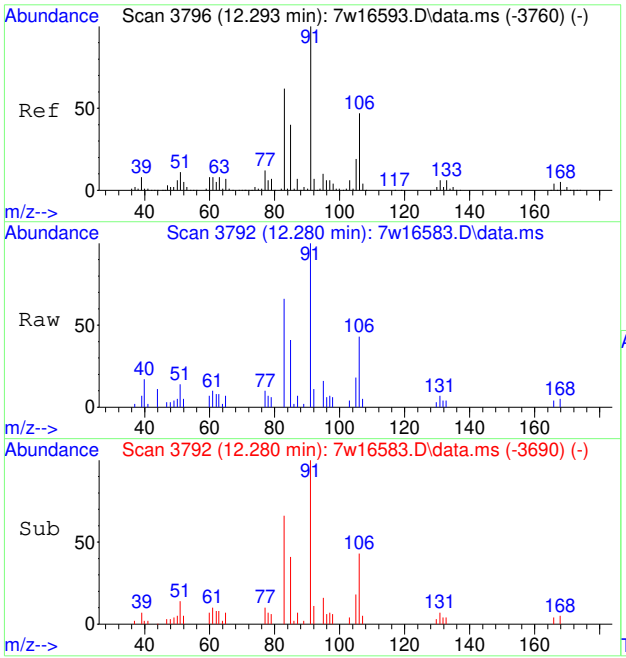


#80
M,P-XYLENE
Concen: 0.37 PPBV
RT: 11.344 min Scan# 3501
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 19306

Ion	Ratio	Lower	Upper
91	100		
106	19.5	0.0	58.7
105	14.1	0.0	43.2

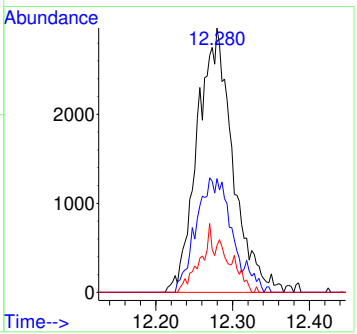


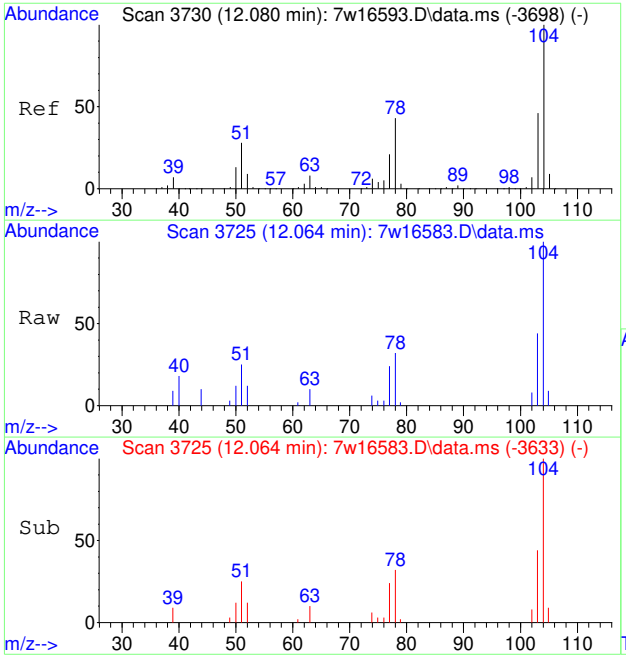


#81
O-XYLENE
Concen: 0.19 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 9544

Ion	Ratio	Lower	Upper
91	100		
106	43.0	34.1	63.3
105	17.7	14.6	27.2

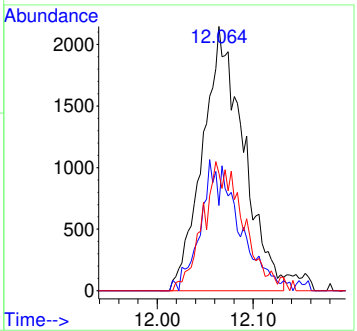


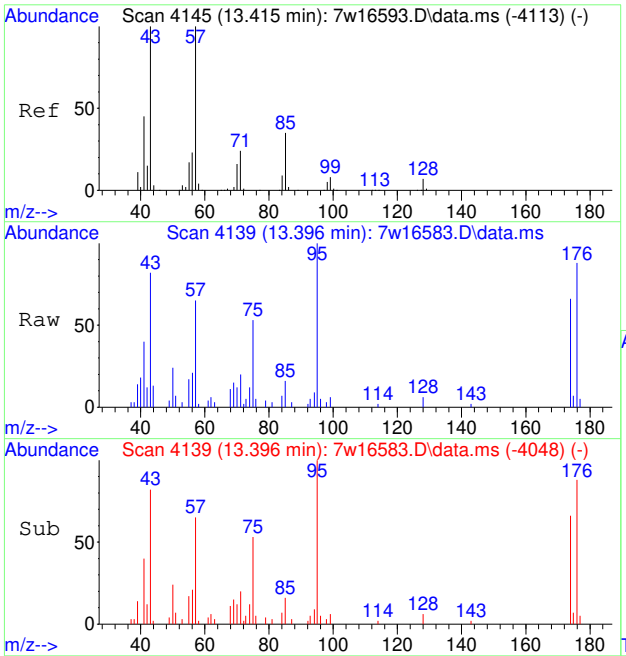


#82
STYRENE
Concen: 0.16 PPBV
RT: 12.064 min Scan# 3725
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:104 Resp: 6329

Ion	Ratio	Lower	Upper
104	100		
78	47.9	25.3	46.9#
103	48.8	33.2	61.7

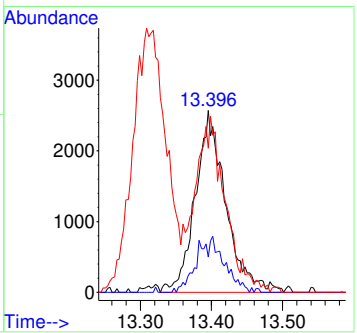


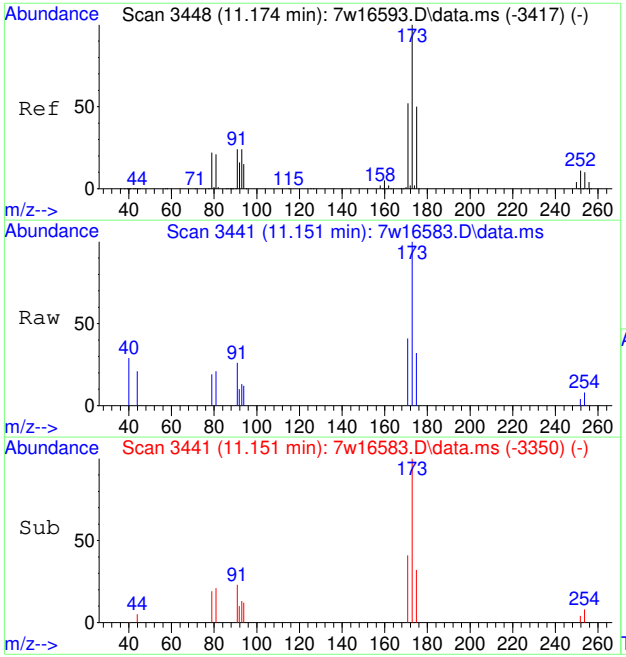


#83
NONANE
Concen: 0.20 PPBV
RT: 13.396 min Scan# 4139
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 43 Resp: 7642

Ion	Ratio	Lower	Upper
43	100		
85	28.4	27.6	51.2
57	91.2	56.4	104.7

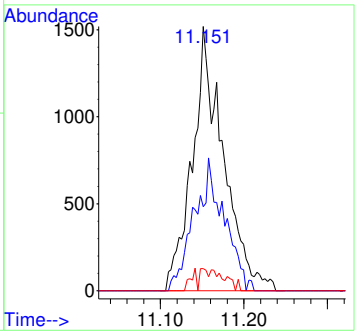


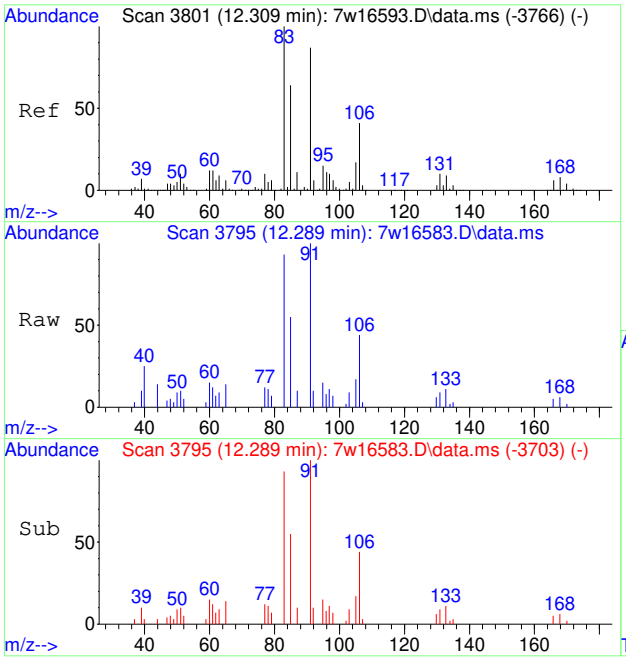


#84
BROMOFORM
Concen: 0.15 PPBV
RT: 11.151 min Scan# 3441
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:173 Resp: 3912

Ion	Ratio	Lower	Upper
173	100		
175	48.4	33.0	61.4
254	7.9	5.9	10.9

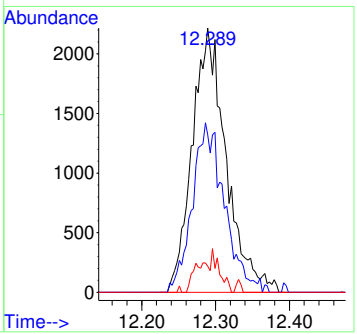


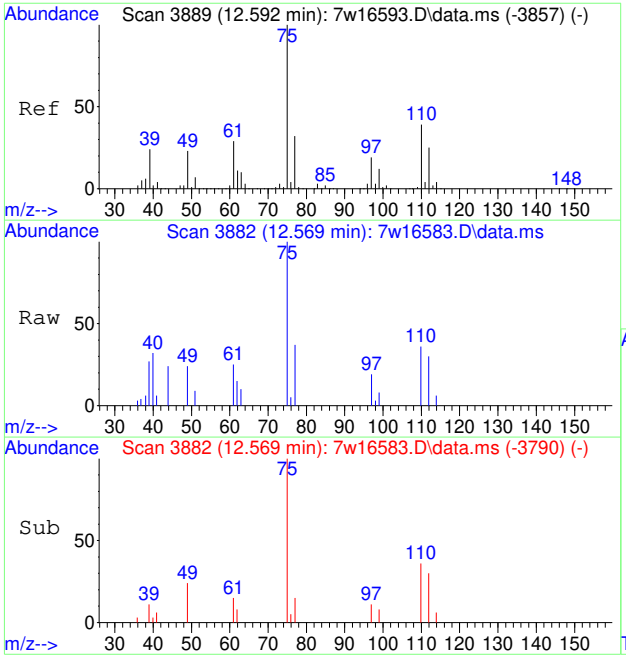


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.19 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 83 Resp: 7071

Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.6	82.8
131	9.9	8.0	14.8

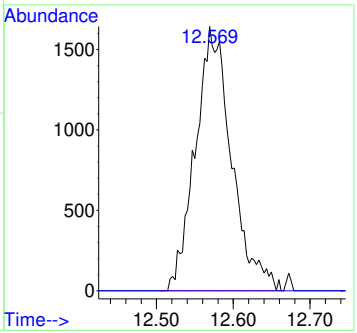


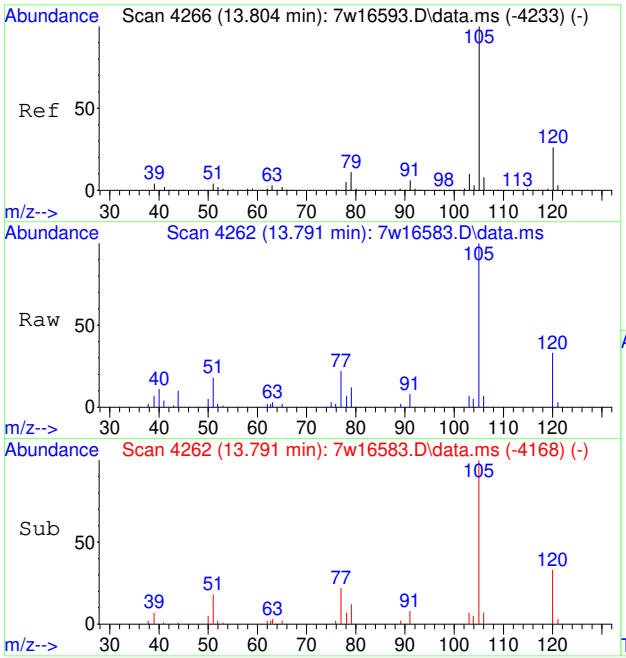


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.19 PPBV
RT: 12.569 min Scan# 3882
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 75 Resp: 5376

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

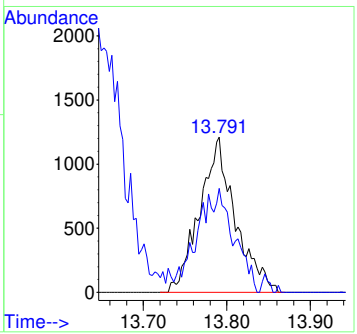


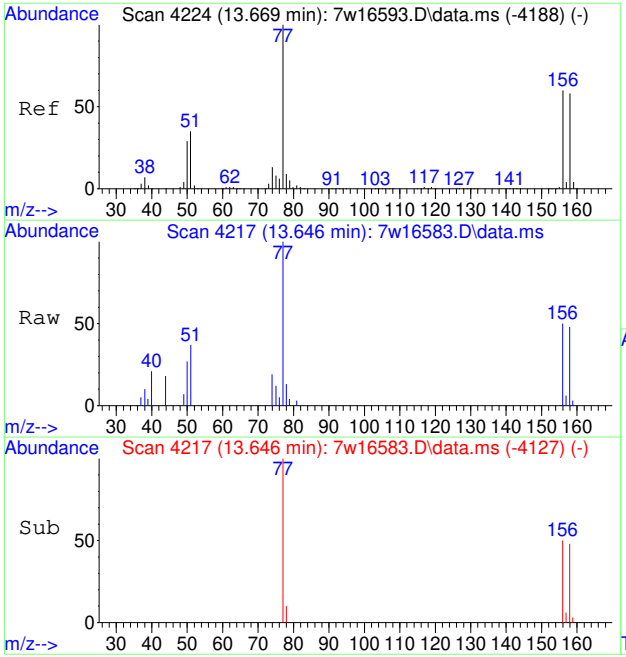


#88
ISOPROPYLBENZENE
Concen: 0.19 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3578

Ion	Ratio	Lower	Upper
120	100		
77	73.3	36.0	67.0#

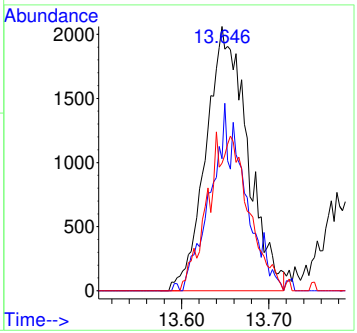


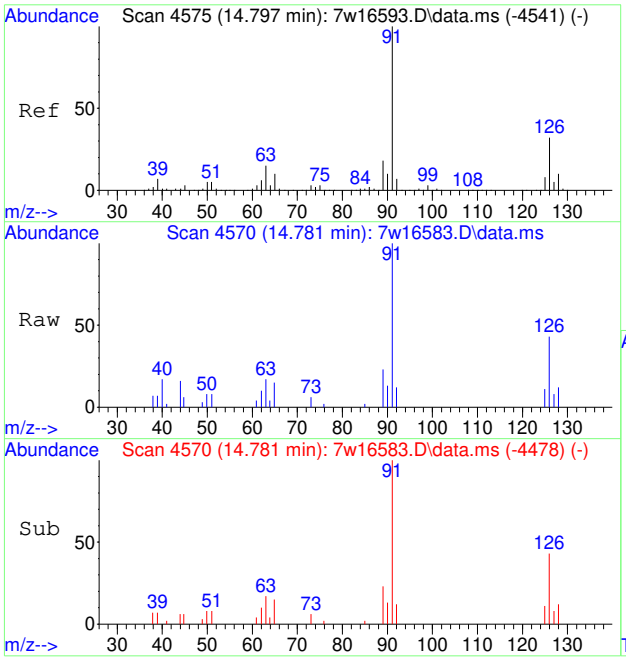


#89
BROMOBENZENE
Concen: 0.19 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 77 Resp: 6796

Ion	Ratio	Lower	Upper
77	100		
156	59.2	57.9	107.5
158	58.4	55.7	103.5

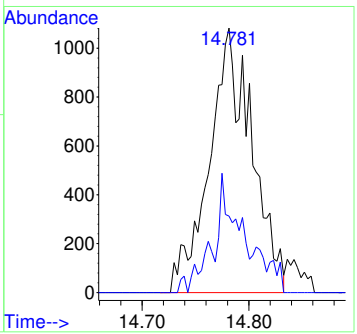


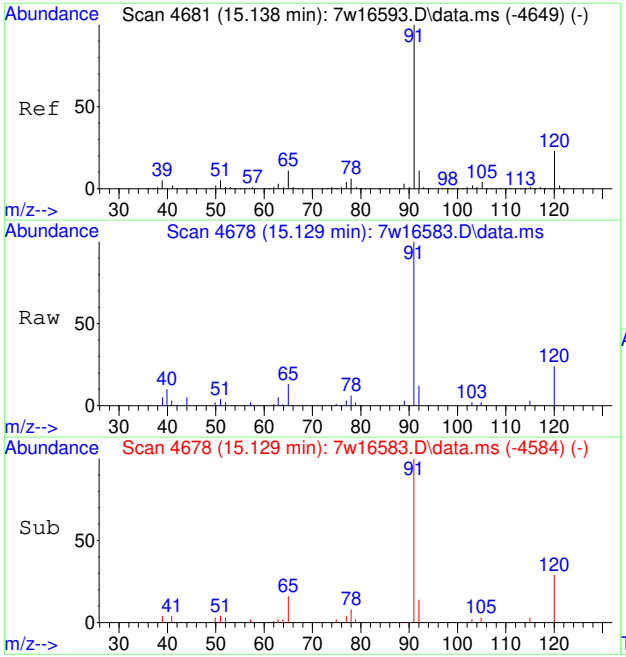


#90
2-CHLOROTOLUENE
Concen: 0.16 PPBV
RT: 14.781 min Scan# 4570
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:126 Resp: 2989

Ion	Ratio	Lower	Upper
126	100		
128	33.2	22.7	42.1

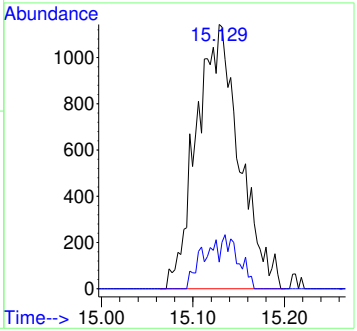


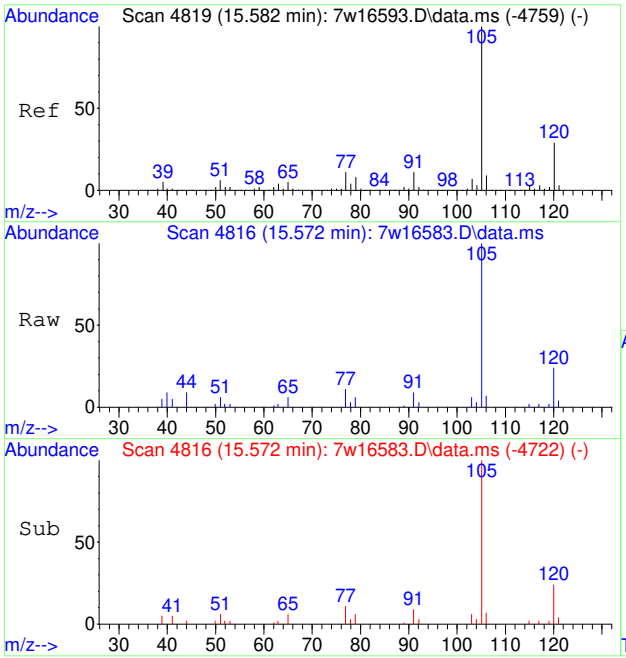


#91
N-PROPYLBENZENE
Concen: 0.18 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:120 Resp: 3735

Ion	Ratio	Lower	Upper
120	100		
105	15.7	10.6	19.6

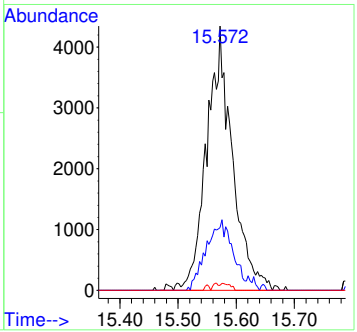


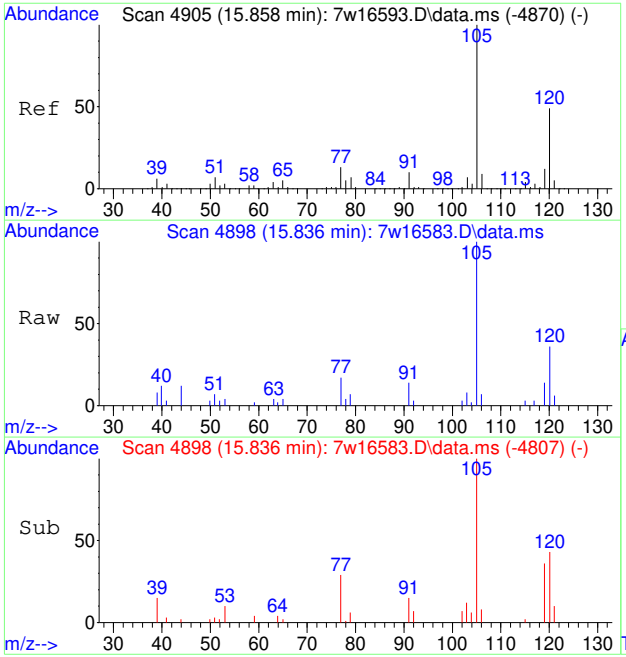


#92
4-ETHYLTOLUENE
Concen: 0.18 PPBV
RT: 15.572 min Scan# 4816
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 13365

Ion	Ratio	Lower	Upper
105	100		
120	28.9	21.8	40.4
119	1.9	1.7	3.1

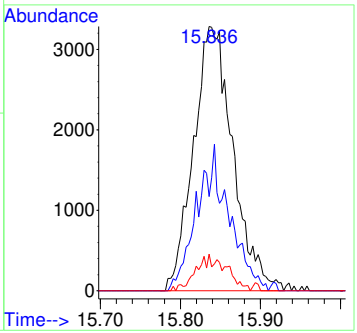


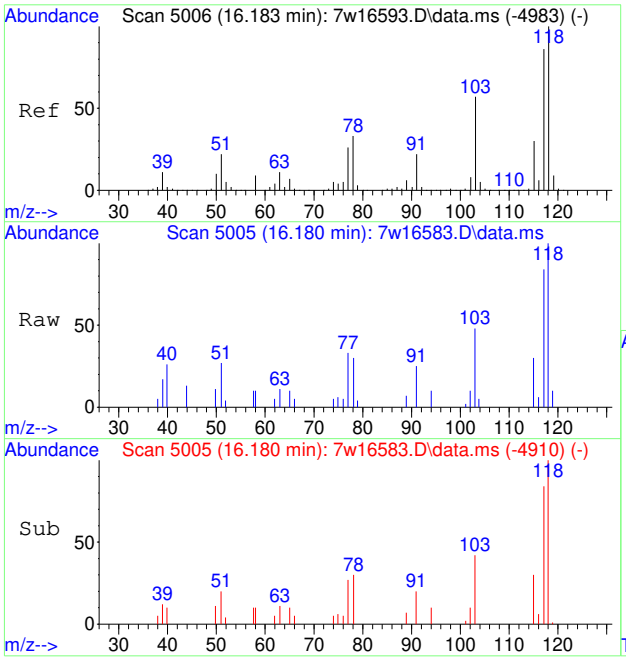


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 15.836 min Scan# 4898
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11247

Ion	Ratio	Lower	Upper
105	100		
120	45.0	37.2	69.2
91	6.7	7.5	13.9#

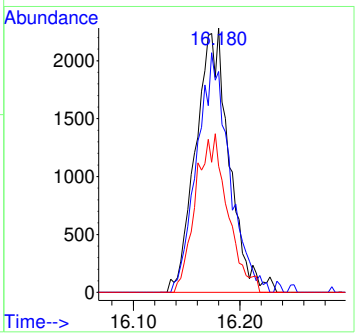


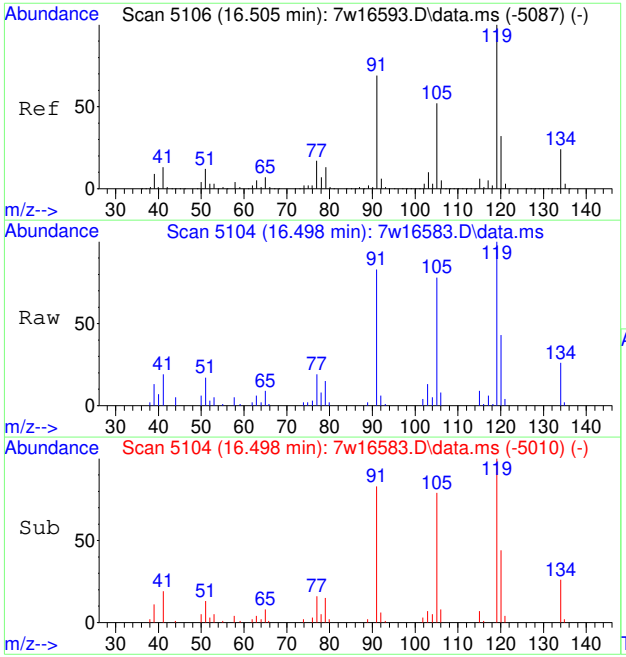


#94
ALPHA-METHYLSTYRENE
Concen: 0.15 PPBV
RT: 16.180 min Scan# 5005
Delta R.T. 0.007 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:118 Resp: 4973

Ion	Ratio	Lower	Upper
118	100		
117	88.5	59.9	111.3
103	57.2	36.2	67.2

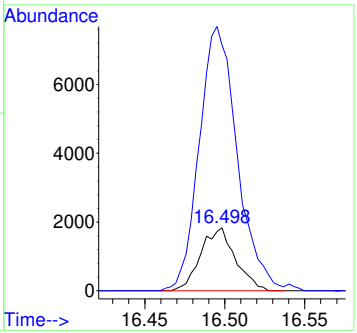


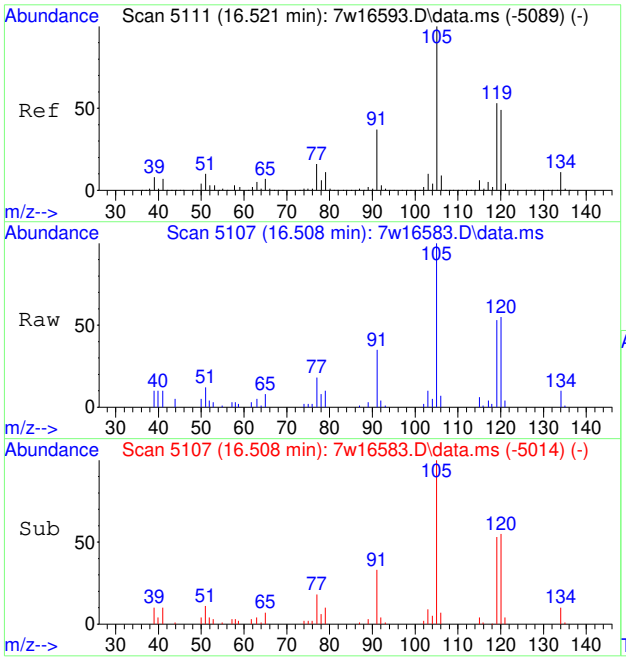


#95
TERT-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 2760

Ion	Ratio	Lower	Upper
134	100		
119	461.8	307.9	571.7

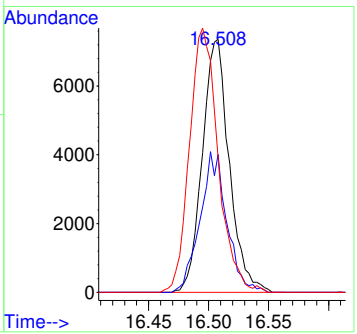


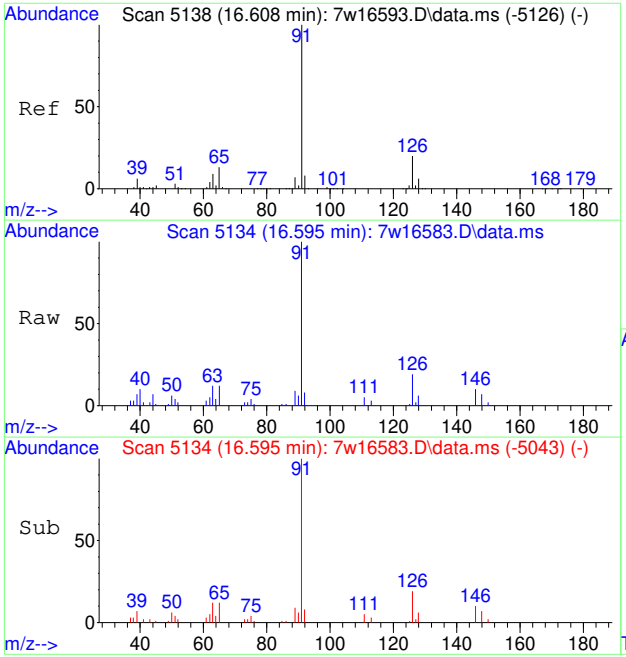


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11478

Ion	Ratio	Lower	Upper
105	100		
120	55.1	40.9	75.9
119	111.0	78.0	144.8

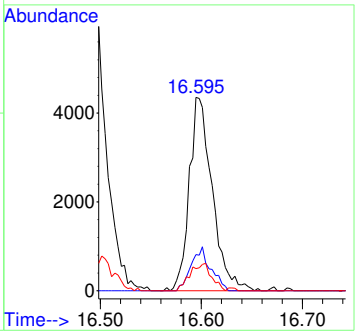


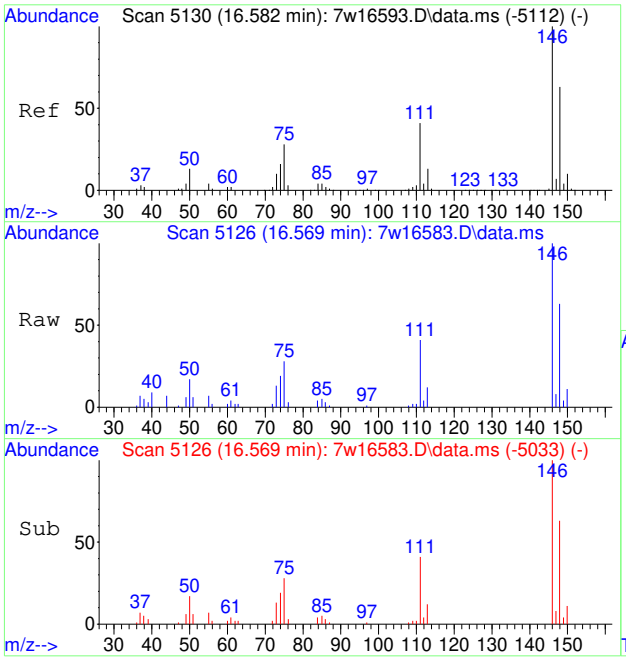


#97
BENZYL CHLORIDE
Concen: 0.13 PPBV
RT: 16.595 min Scan# 5134
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion: 91 Resp: 6914

Ion	Ratio	Lower	Upper
91	100		
126	19.2	17.2	32.0
65	13.7	7.3	13.7#

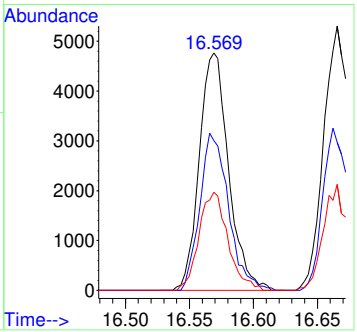


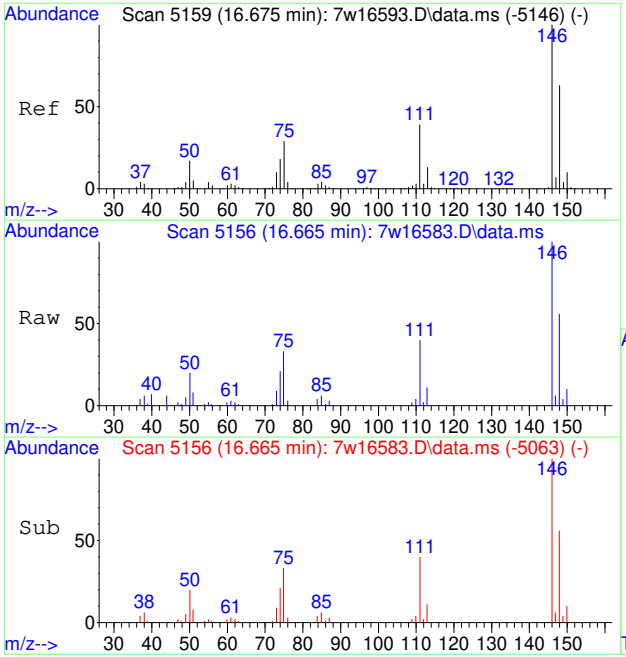


#98
M-DICHLOROBENZENE
Concen: 0.18 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7589

Ion	Ratio	Lower	Upper
146	100		
148	64.8	44.2	82.2
111	40.8	25.4	47.2

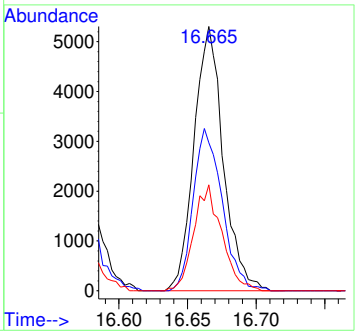


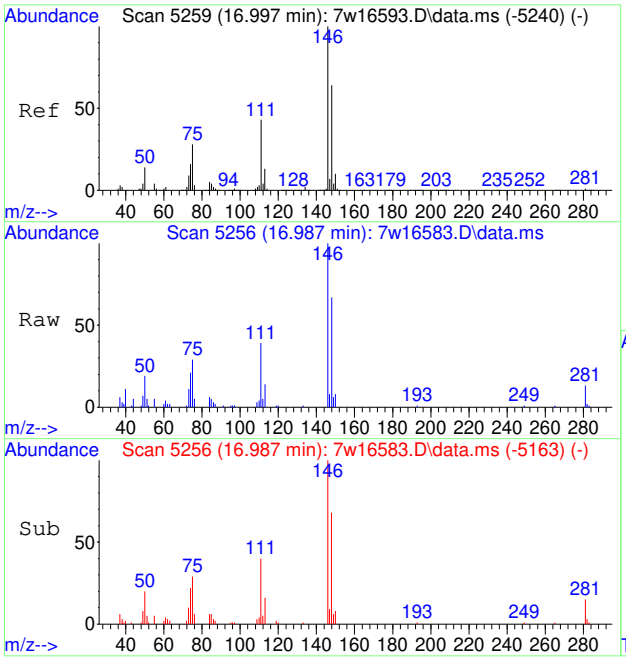


#99
P-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7856

Ion	Ratio	Lower	Upper
146	100		
148	61.0	44.7	82.9
111	38.6	24.8	46.1

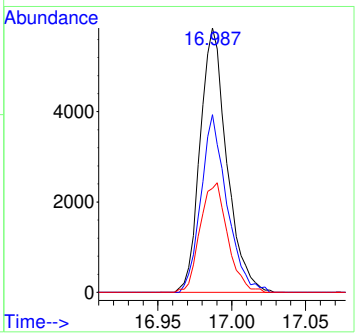


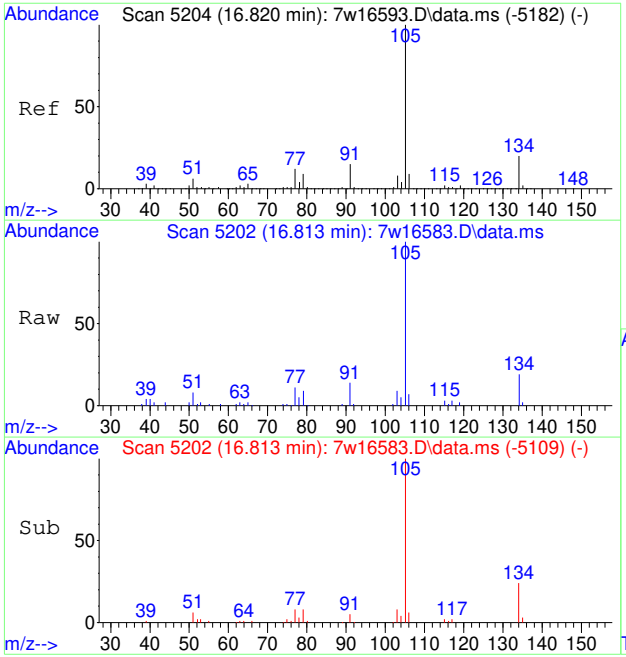


#100
O-DICHLOROBENZENE
Concen: 0.19 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:146 Resp: 7325

Ion	Ratio	Lower	Upper
146	100		
148	65.4	44.6	82.8
111	42.7	26.9	50.1

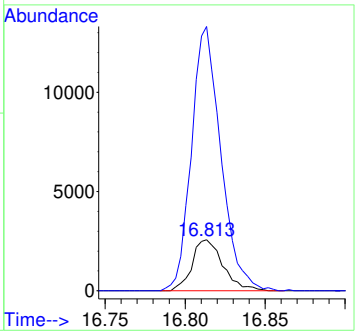


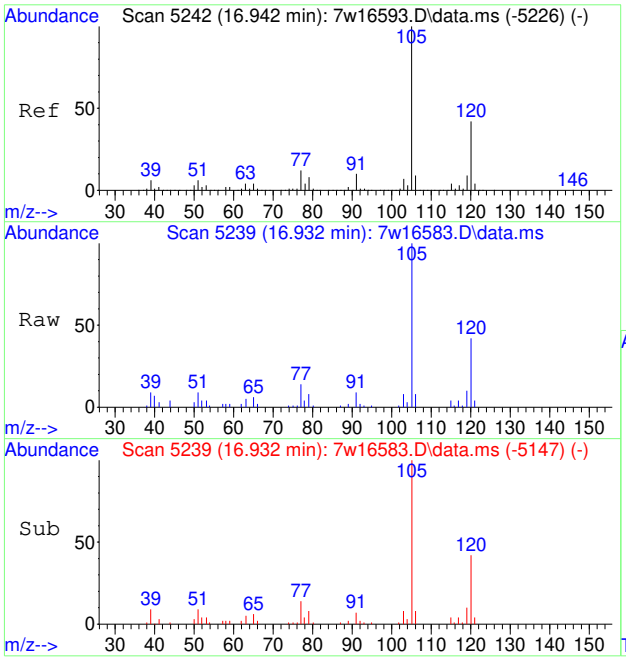


#101
SEC-BUTYLBENZENE
Concen: 0.19 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3439

Ion	Ratio	Lower	Upper
134	100		
105	494.3	314.4	584.0

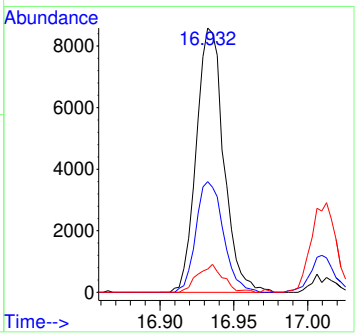


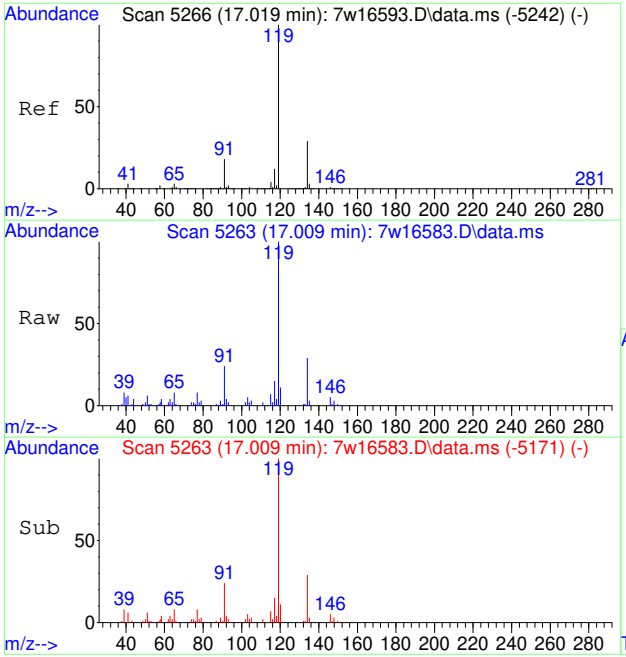


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.18 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:105 Resp: 11073

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

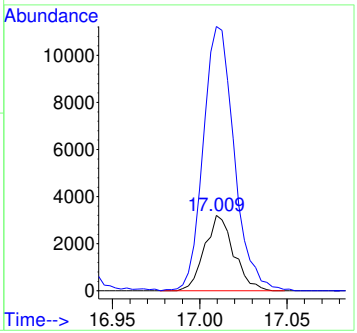


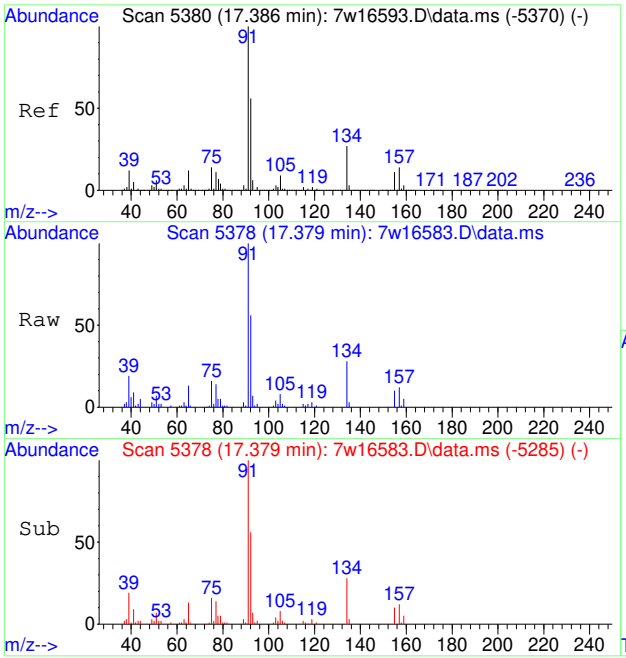


#103
P-ISOPROPYLTOLUENE
Concen: 0.18 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3722

Ion	Ratio	Lower	Upper
134	100		
119	372.9	253.7	471.3

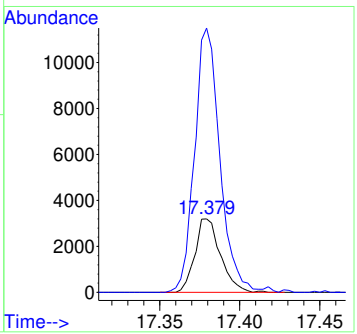


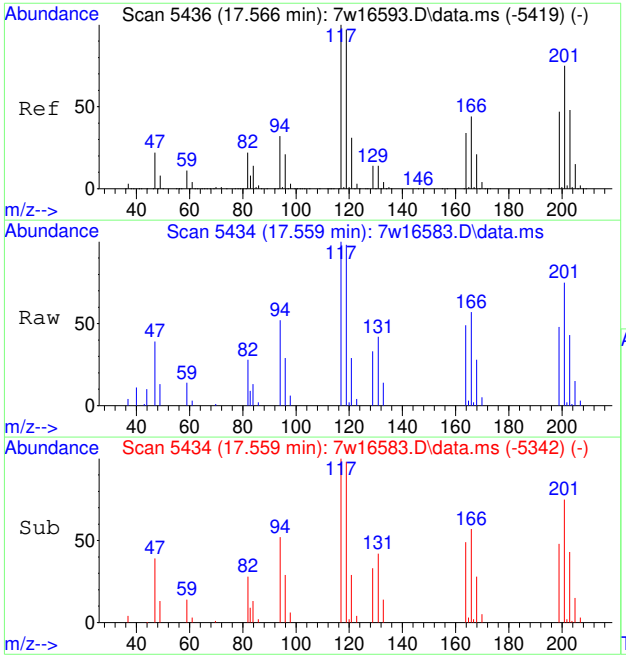


#104
N-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:134 Resp: 3557

Ion	Ratio	Lower	Upper
134	100		
91	358.3	231.1	429.1

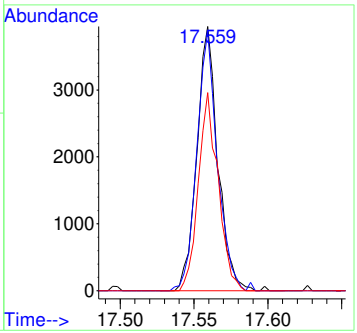


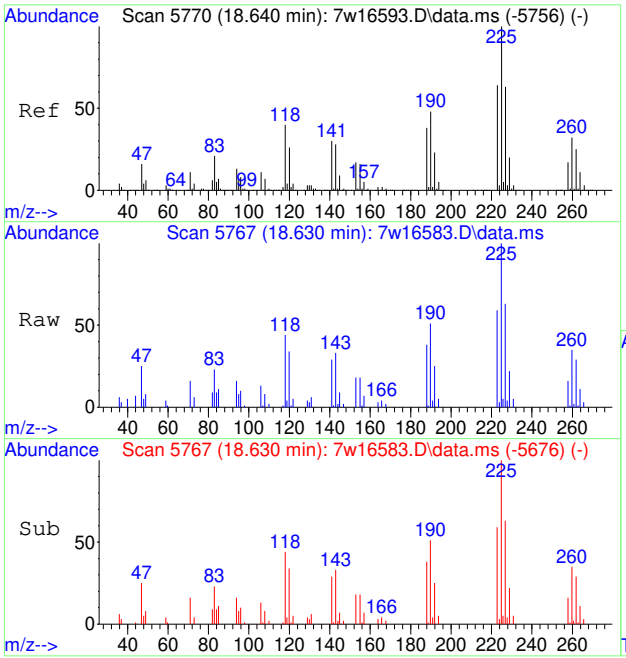


#105
HEXACHLOROETHANE
Concen: 0.16 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:117 Resp: 3887

Ion	Ratio	Lower	Upper
117	100		
119	96.9	68.3	126.9
201	70.9	45.9	85.3

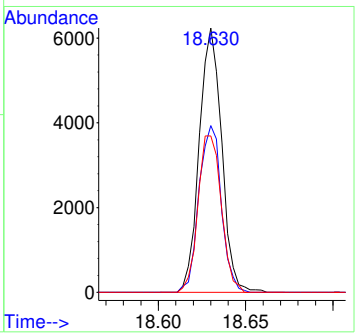


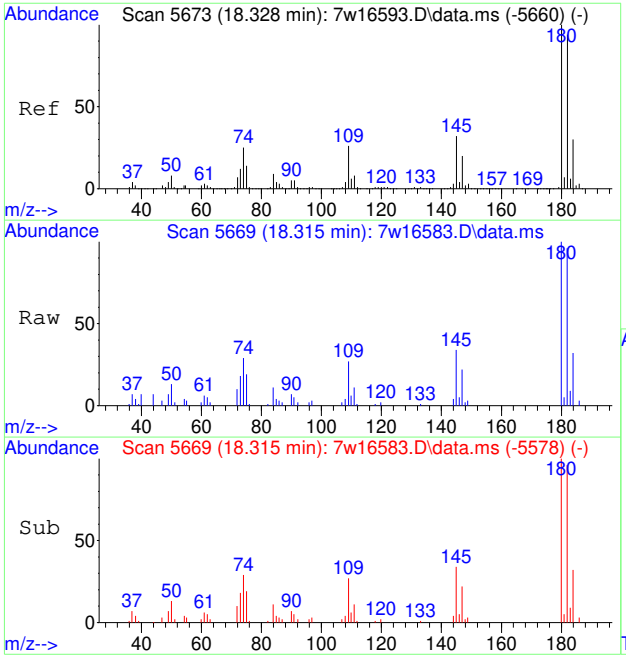


#106
HEXACHLOROBUTADIENE
Concen: 0.21 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:225 Resp: 5583

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.4	82.5
223	61.5	44.7	83.1

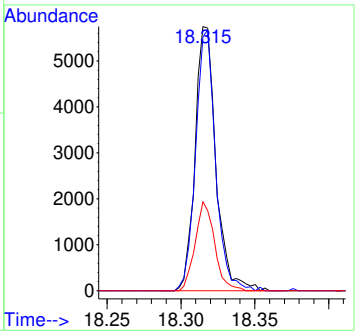


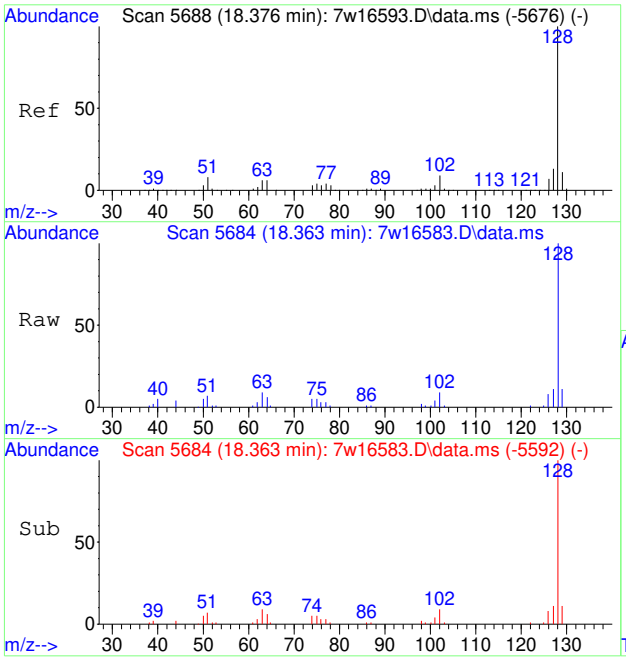


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.16 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:180 Resp: 5618

Ion	Ratio	Lower	Upper
180	100		
182	94.3	66.8	124.0
145	31.6	23.1	42.9

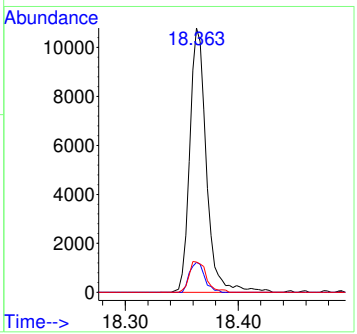


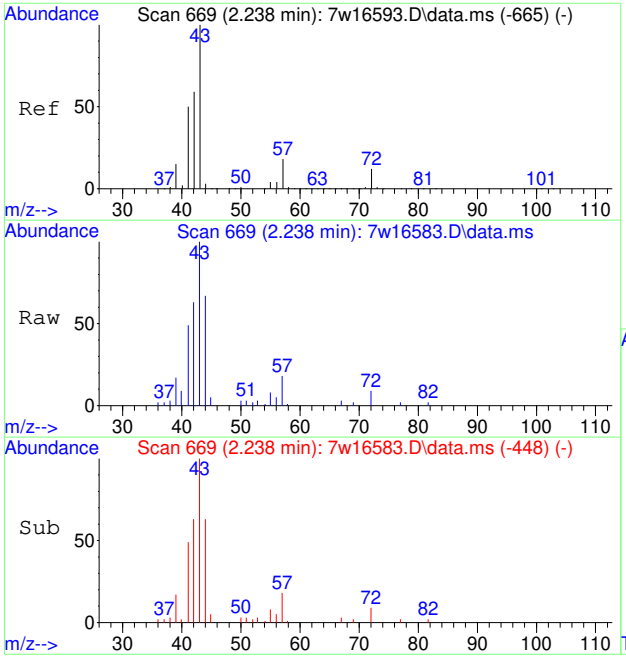


#108
NAPHTHALENE
Concen: 0.14 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:128 Resp: 11029

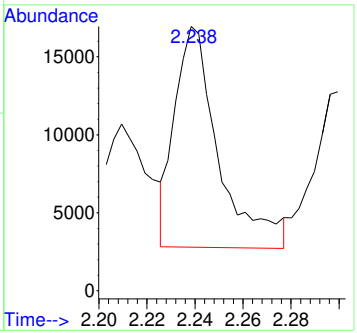
Ion	Ratio	Lower	Upper
128	100		
129	10.4	7.3	13.7
127	12.1	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.28 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16583.D
Acq: 7 Aug 2025 8:36 am

Tgt Ion:TIC Resp: 17908



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16583.D
Injection Time: 08/07/25 08:36

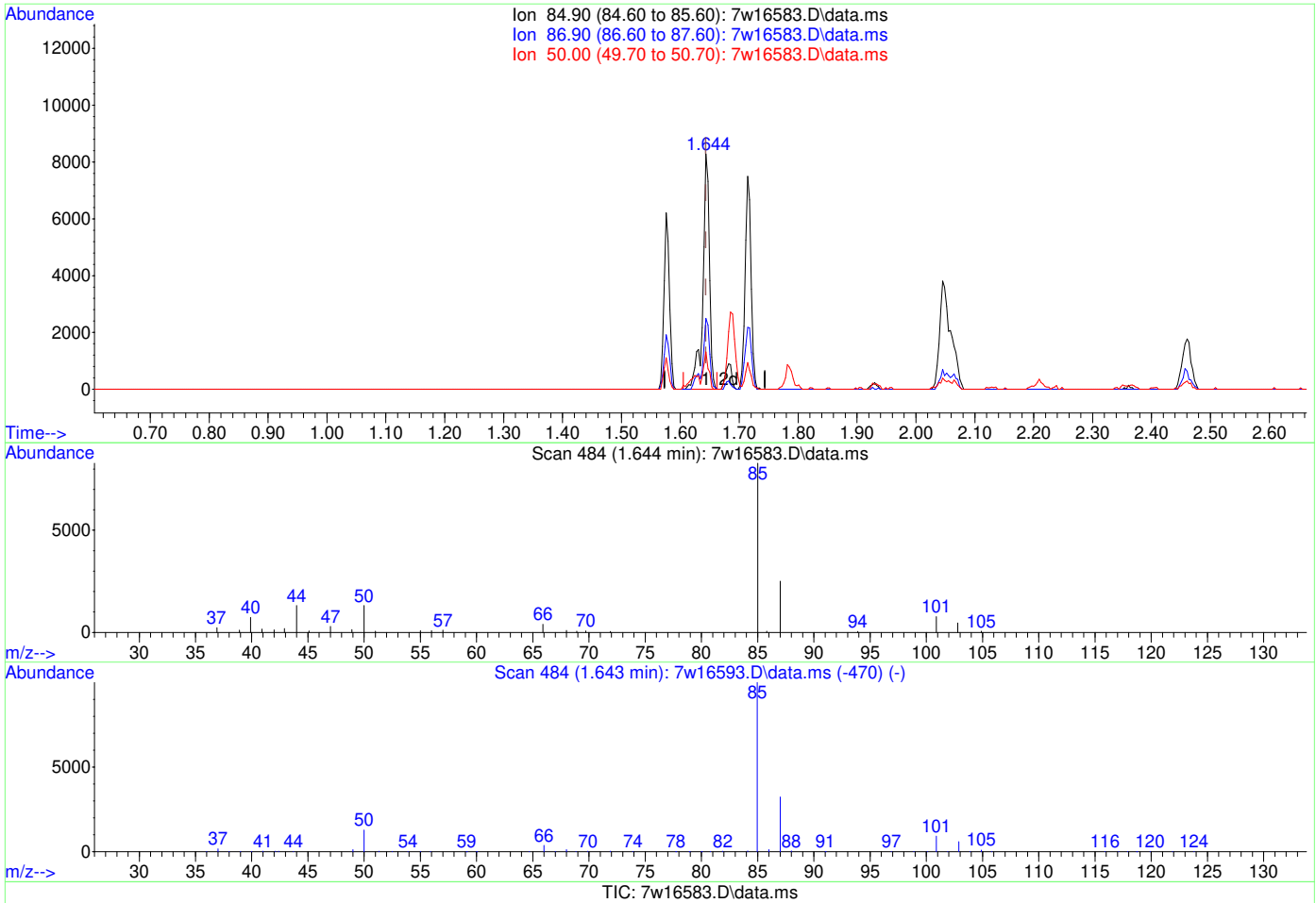
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.19PPBV

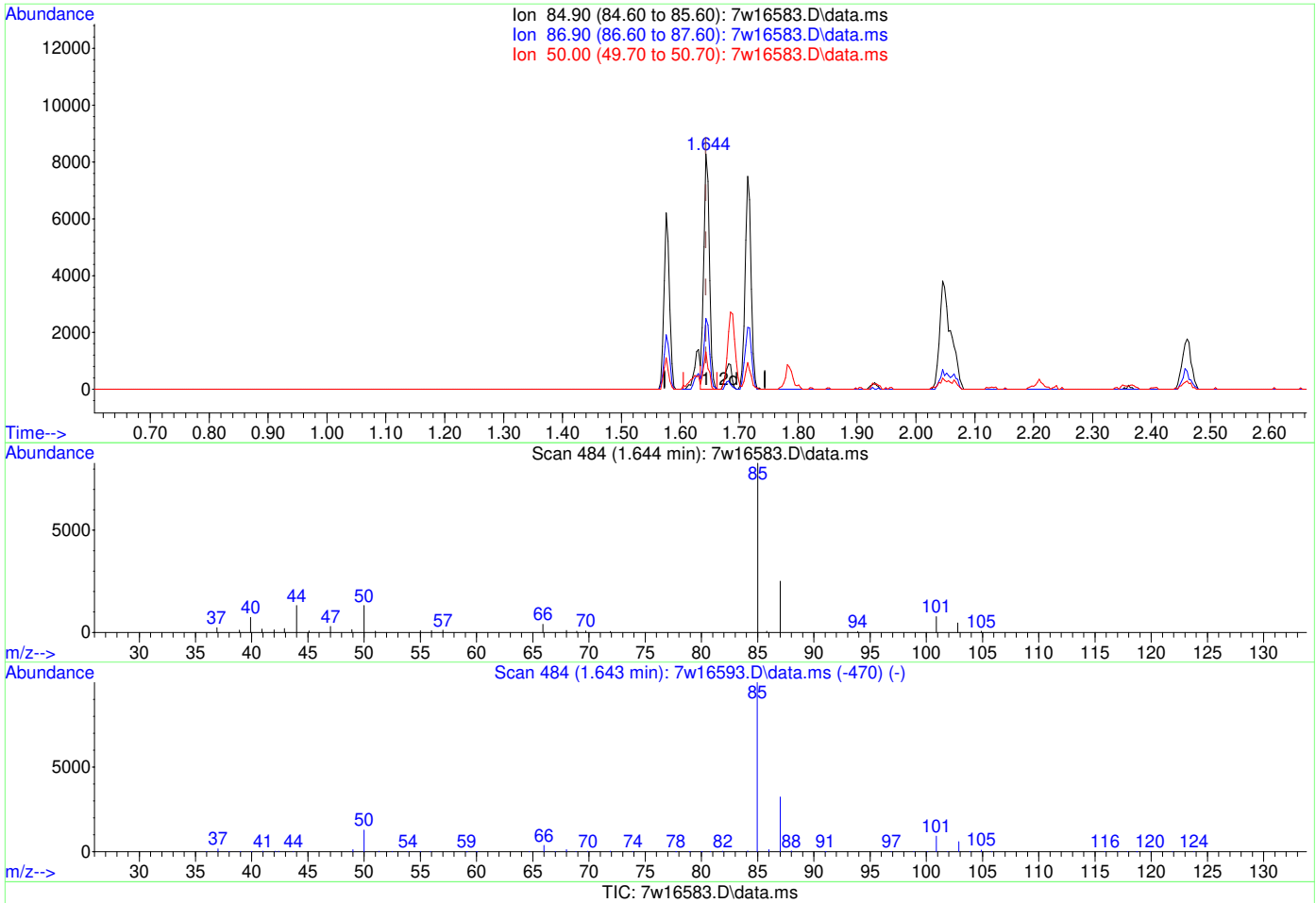
response 6418

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	31.93
50.00	17.30	21.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16583.D
Acq On : 7 Aug 2025 8:36 am
Operator : benk
Sample : ic577-0.2
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:31:32 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16583.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.16PPBV m

response 5428

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	37.75
50.00	17.30	25.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	114041	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	577981	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	540711	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	114041	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	422778	9.61	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	6776	0.46	PPBV		84
3) FREON 152A	1.608	65	3692	0.53	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	1804	0.56	PPBV		94
5) CHLOROTRIFLUOROETHENE	1.628	116	7994	0.51	PPBV		73
6) DICHLORODIFLUOROMETHANE	1.644	85	14890m	0.44	PPBV		
7) PROPYLENE	1.628	41	4672	0.52	PPBV		94
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	13815	0.54	PPBV		96
9) FREON 114	1.714	85	15094	0.51	PPBV		84
10) CHLOROMETHANE	1.685	52	1982	0.52	PPBV		98
11) VINYL CHLORIDE	1.747	62	7044	0.49	PPBV		97
12) 1,3-BUTADIENE	1.785	54	5673	0.51	PPBV	#	73
13) N-BUTANE	1.798	43	10254	0.54	PPBV	#	83
14) BROMOMETHANE	1.856	94	5311	0.49	PPBV		94
15) CHLOROETHANE	1.904	64	3739	0.50	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	13156	0.49	PPBV		97
17) ACETONITRILE	1.997	41	6126	0.52	PPBV		93
18) ACROLEIN	2.033	56	3496	0.57	PPBV		99
19) FREON 123	2.049	83	14538	0.53	PPBV		97
20) FREON 123A	2.065	117	8271	0.51	PPBV	#	48
21) TRICHLOROFLUOROMETHANE	2.129	101	16036	0.51	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	14702	0.56	PPBV		89
23) ACETONE	2.075	58	4031	0.56	PPBV		67
24) PENTANE	2.242	42	7252	0.54	PPBV	#	86
25) IODOMETHANE	2.300	142	15067	0.52	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.329	96	6087	0.52	PPBV	#	55
27) CARBON DISULFIDE	2.460	76	17823	0.53	PPBV		96
28) ETHANOL	1.936	45	3995	0.60	PPBV	#	94
29) BROMOETHENE	2.004	106	5459	0.48	PPBV		98
30) ACRYLONITRILE	2.210	52	5767	0.58	PPBV		95
31) METHYLENE CHLORIDE	2.364	84	5842	0.53	PPBV	#	74
32) 3-CHLOROPROPENE	2.406	76	3137	0.50	PPBV	#	72
33) FREON 113	2.460	151	9645	0.53	PPBV		86
34) TRANS-1,2-DICHLOROETHENE	2.689	96	6513	0.51	PPBV	#	61
35) TERTIARY BUTYL ALCOHOL	2.345	59	15020	0.47	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.795	73	18863	0.52	PPBV	#	90
37) TETRAHYDROFURAN	3.483	72	2906	0.48	PPBV		79
38) HEXANE	3.242	57	12572	0.52	PPBV		83
39) VINYL ACETATE	2.827	86	1605	0.45	PPBV	#	82
40) 1,1-DICHLOROETHANE	2.759	63	12723	0.50	PPBV		98
41) METHYL ETHYL KETONE	2.927	72	3223	0.49	PPBV	#	79
42) CIS-1,2-DICHLOROETHENE	3.116	96	6837	0.51	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	3577	0.51	PPBV		100
44) ETHYL ACETATE	3.255	61	2292	0.47	PPBV		85
45) METHYL ACRYLATE	3.238	55	15089	0.50	PPBV	#	98
46) CHLOROFORM	3.258	83	14039	0.53	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	14638	0.53	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	3.824	97	13952	0.51	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	13931	0.47	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	10566	0.51	PPBV		99
51)	BENZENE	4.126	78	19953	0.51	PPBV		90
53)	CYCLOHEXANE	4.332	84	9049	0.51	PPBV	#	72
54)	2,3-DIMETHYLPENTANE	4.582	71	4648	0.51	PPBV		64
55)	TRICHLOROETHENE	5.017	95	9226	0.49	PPBV		85
56)	1,2-DICHLOROPROPANE	4.782	63	8549	0.51	PPBV		91
57)	DIBROMOMETHANE	4.743	174	7819	0.51	PPBV		91
58)	ETHYL ACRYLATE	4.904	55	18149	0.48	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.959	83	14412	0.46	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	40435	0.51	PPBV	#	93
61)	1,4-DIOXANE	5.062	88	4245	0.45	PPBV	#	72
62)	HEPTANE	5.418	43	13738	0.52	PPBV		88
63)	METHYL METHACRYLATE	5.322	69	7482	0.49	PPBV		87
64)	METHYL ISOBUTYL KETONE	6.049	58	7119	0.46	PPBV		87
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	11946	0.45	PPBV		99
66)	TOLUENE	7.126	91	24682	0.51	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	12380	0.50	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	10011	0.41	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.766	83	7248	0.51	PPBV		92
70)	2-HEXANONE	7.708	58	9642	0.47	PPBV	#	81
71)	ETHYL METHACRYLATE	7.833	69	12576	0.48	PPBV		91
72)	TETRACHLOROETHENE	8.836	164	9191	0.52	PPBV		97
73)	DIBROMOCHLOROMETHANE	7.663	129	12752	0.43	PPBV		97
74)	1,2-DIBROMOETHANE	7.994	107	13213	0.52	PPBV		99
75)	OCTANE	8.994	43	18440	0.51	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.052	131	9977	0.47	PPBV		90
78)	CHLOROBENZENE	10.045	112	20418	0.52	PPBV		90
79)	ETHYLBENZENE	10.917	91	33108	0.52	PPBV		96
80)	M,P-XYLENE	11.347	91	51511	1.00	PPBV		98
81)	O-XYLENE	12.273	91	26468	0.52	PPBV		97
82)	STYRENE	12.068	104	18750	0.48	PPBV		94
83)	NONANE	13.402	43	19802	0.51	PPBV		81
84)	BROMOFORM	11.155	173	10827	0.42	PPBV		95
85)	1,1,2,2-TETRACHLOROETHANE	12.286	83	18876	0.51	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.563	75	15262	0.53	PPBV	#	99
88)	ISOPROPYLBENZENE	13.791	120	9713	0.50	PPBV		80
89)	BROMOBENZENE	13.640	77	18640	0.51	PPBV		75
90)	2-CHLOROTOLUENE	14.778	126	8526	0.47	PPBV	#	74
91)	N-PROPYLBENZENE	15.129	120	9669	0.46	PPBV		98
92)	4-ETHYLTOLUENE	15.569	105	36862	0.48	PPBV	#	47
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	30468	0.48	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.174	118	14307	0.44	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	7825	0.51	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.502	105	31128	0.49	PPBV		98
97)	BENZYL CHLORIDE	16.598	91	19459	0.35	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	20646	0.48	PPBV		96
99)	P-DICHLOROBENZENE	16.662	146	20868	0.49	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	19799	0.50	PPBV		95
101)	SEC-BUTYLBENZENE	16.813	134	9482	0.51	PPBV		86
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	30663	0.49	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	10237	0.49	PPBV		94
104)	N-BUTYLBENZENE	17.376	134	9347	0.47	PPBV		76
105)	HEXACHLOROETHANE	17.559	117	10816	0.44	PPBV		97
106)	HEXACHLOROBUTADIENE	18.633	225	14662	0.54	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.318	180	15355	0.44	PPBV		97
108)	NAPHTHALENE	18.366	128	32243	0.40	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	43130	0.69	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

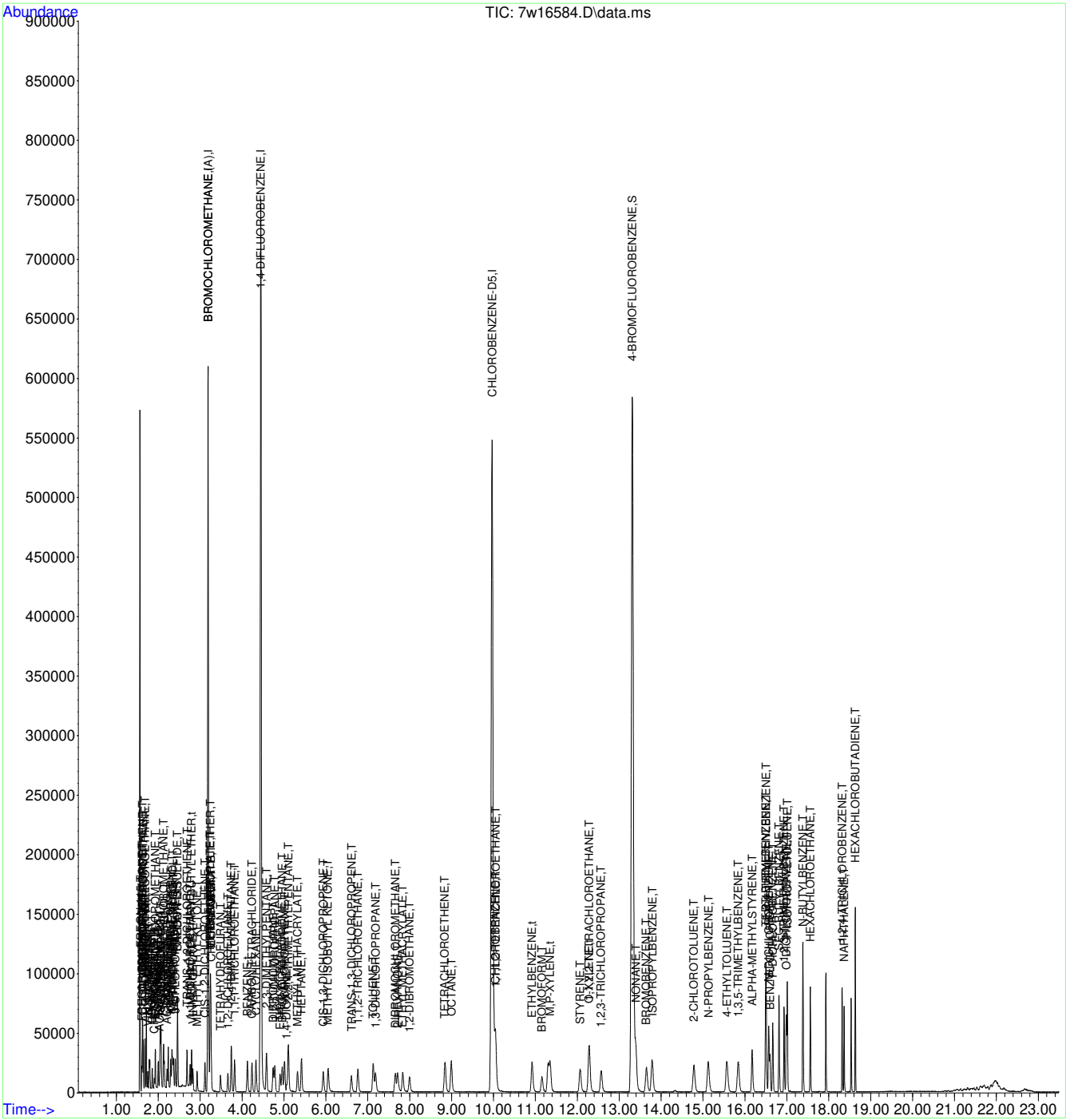
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

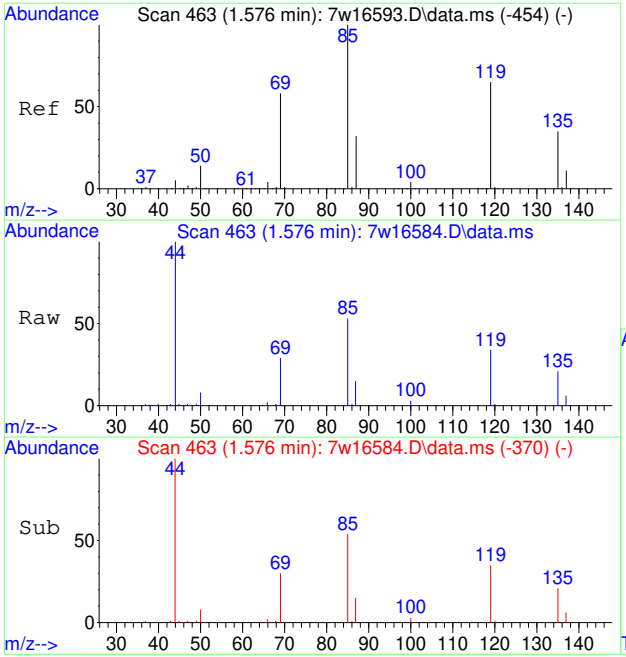
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 15:00:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

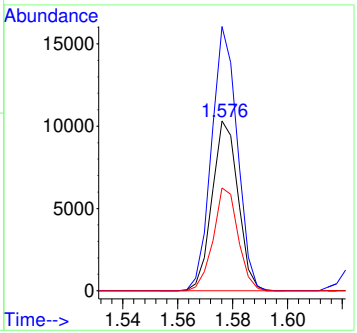


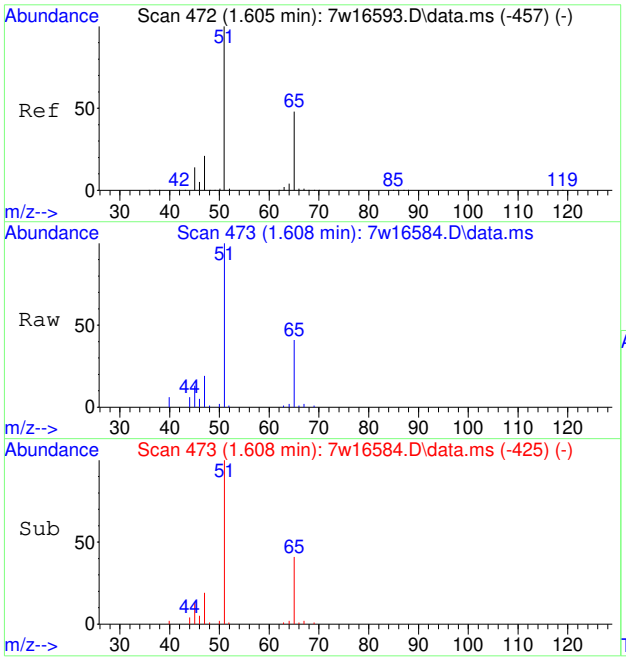


#2
FREON 115
Concen: 0.46 PPBV
RT: 1.576 min Scan# 463
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:119 Resp: 6776

Ion	Ratio	Lower	Upper
119	100		
85	154.0	90.9	168.7
135	58.1	38.2	71.0

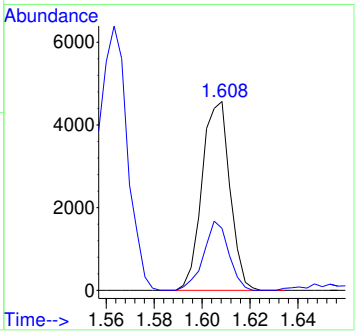


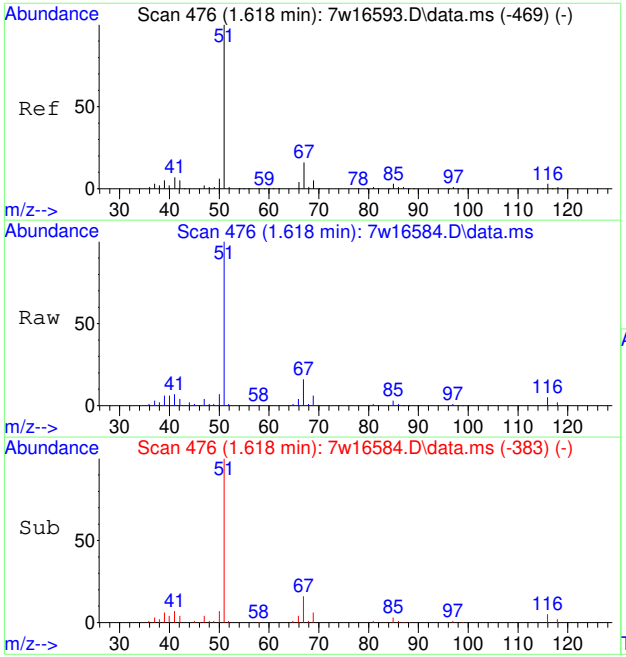


#3
FREON 152A
Concen: 0.53 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 3692

Ion	Ratio	Lower	Upper
65	100		
45	33.0	20.6	38.4

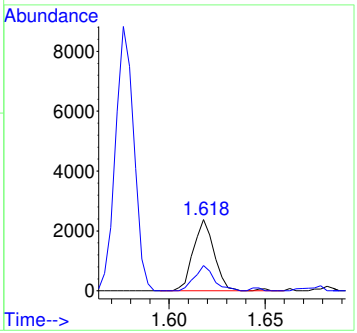


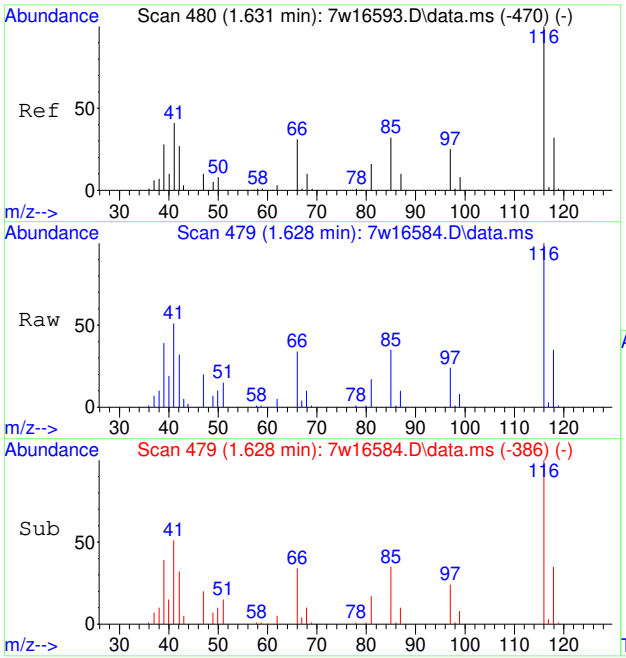


#4
CHLORODIFLUOROMETHANE
Concen: 0.56 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 1804

Ion	Ratio	Lower	Upper
67	100		
69	33.0	25.4	47.2

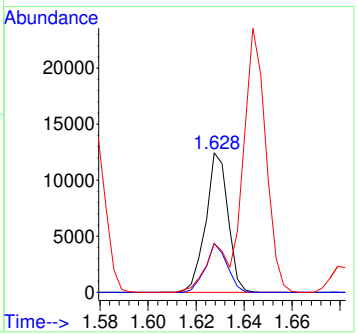


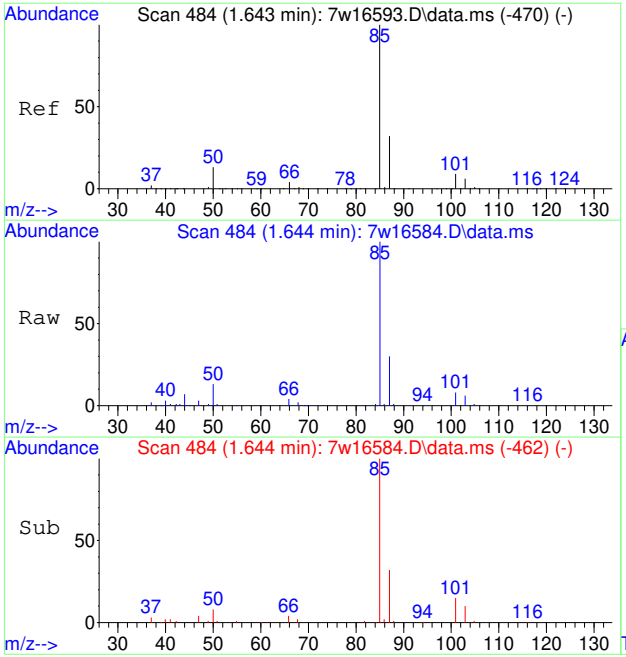


#5
CHLOROTRIFLUOROETHENE
Concen: 0.51 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:116 Resp: 7994

Ion	Ratio	Lower	Upper
116	100		
118	33.8	22.7	42.1
85	221.5	194.7	361.7

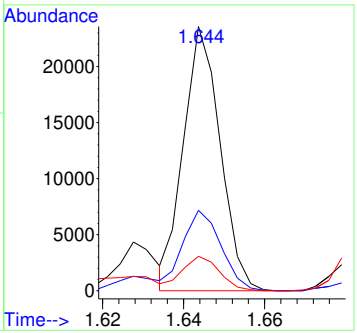


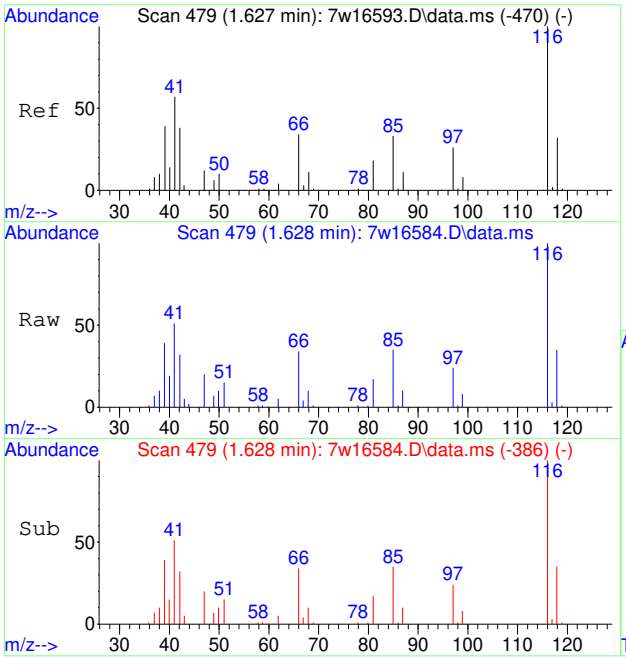


#6
DICHLORODIFLUOROMETHANE
Concen: 0.44 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 14890

Ion	Ratio	Lower	Upper
85	100		
87	38.2	23.1	42.9
50	23.9	12.1	22.5#

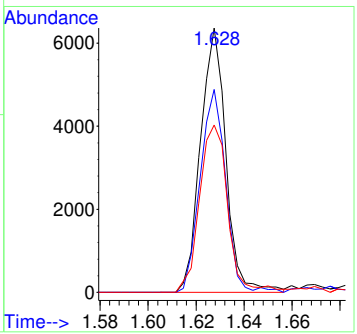


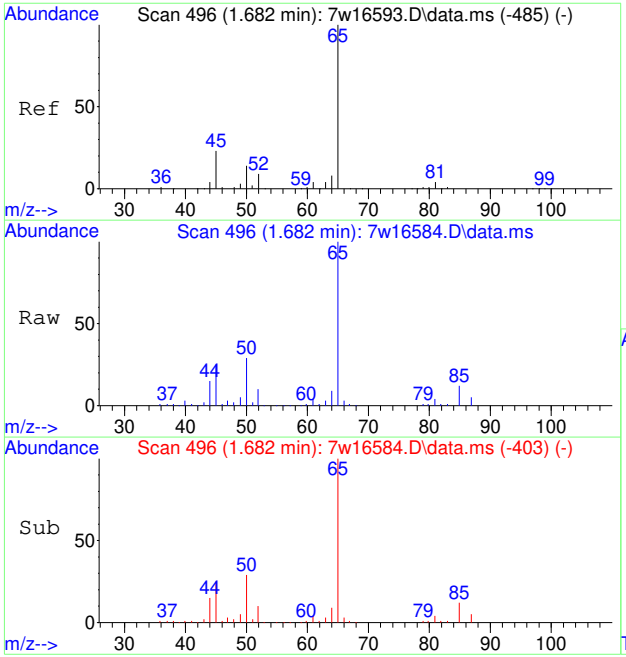


#7
PROPYLENE
Concen: 0.52 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 4672

Ion	Ratio	Lower	Upper
41	100		
39	76.8	51.0	94.8
42	71.9	46.6	86.6

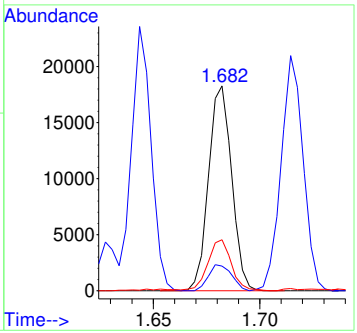


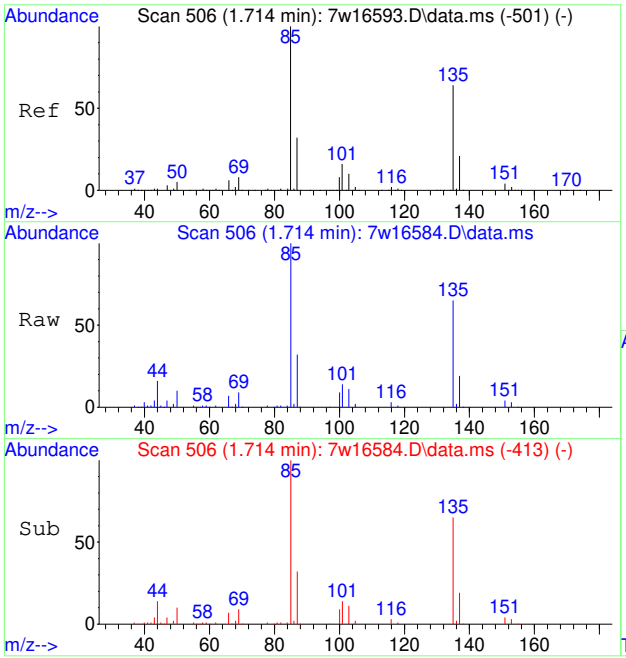


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.54 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 65 Resp: 13815

Ion	Ratio	Lower	Upper
65	100		
85	13.0	9.7	17.9
45	26.7	17.0	31.6

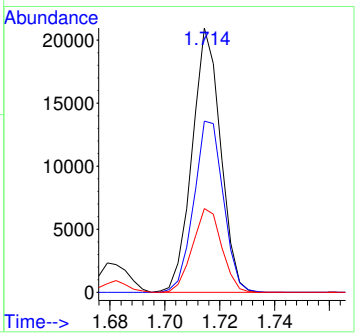


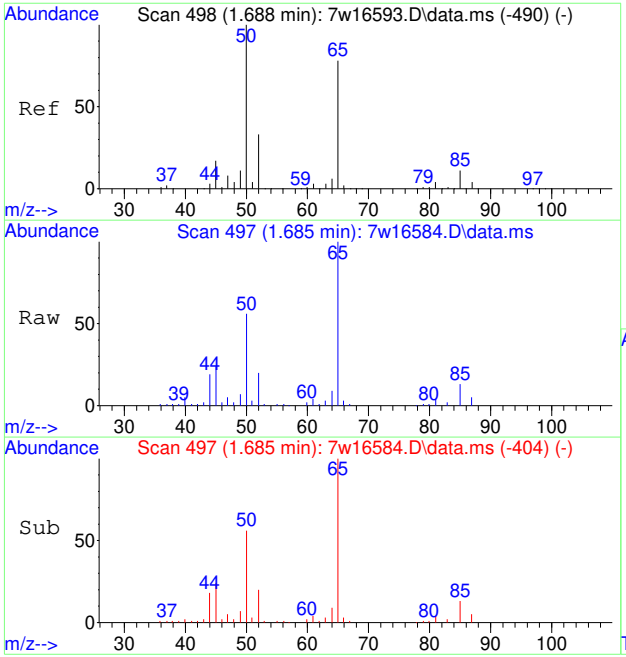


#9
FREON 114
Concen: 0.51 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 85 Resp: 15094

Ion	Ratio	Lower	Upper
85	100		
135	67.3	61.3	113.9
87	32.6	23.2	43.0

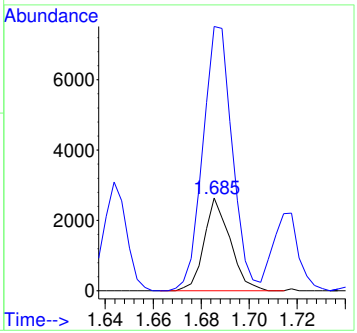


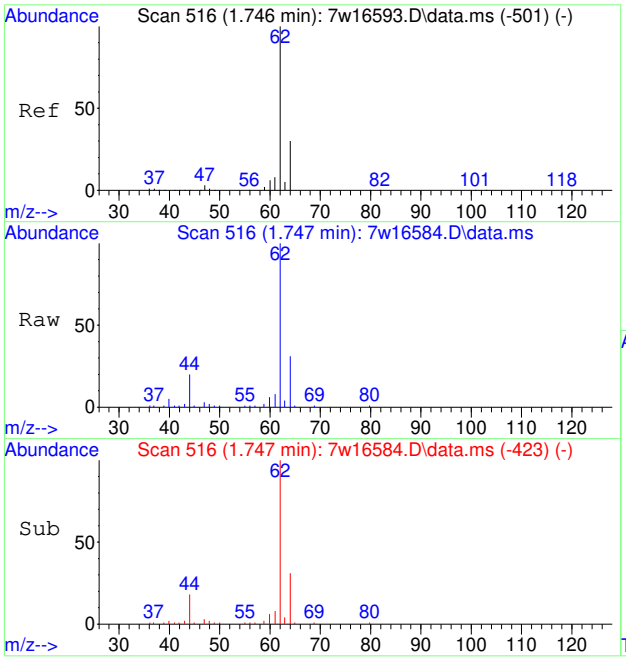


#10
CHLOROMETHANE
Concen: 0.52 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 1982

Ion	Ratio	Lower	Upper
52	100		
50	321.8	227.6	422.6

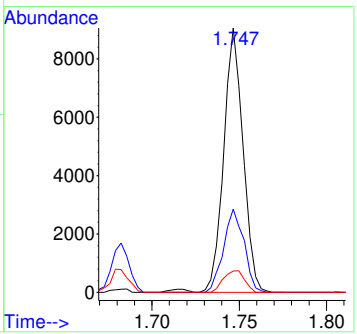


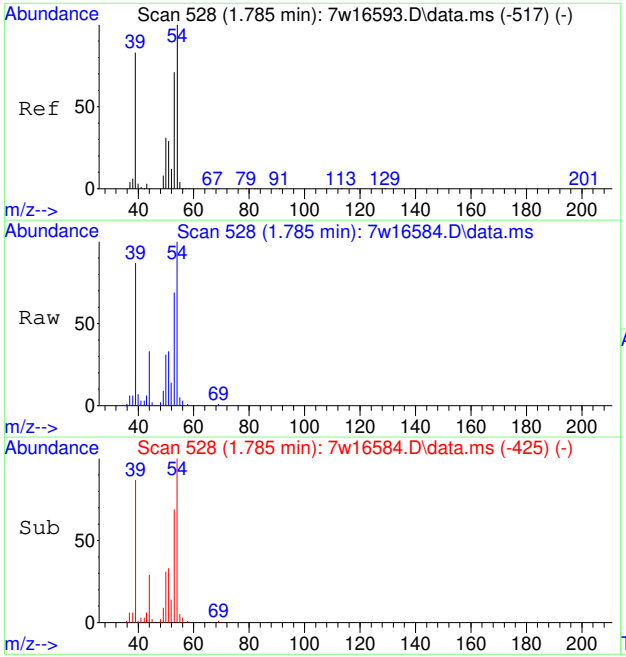


#11
VINYL CHLORIDE
Concen: 0.49 PPBV
RT: 1.747 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 7044

Ion	Ratio	Lower	Upper
62	100		
64	33.0	21.6	40.2
61	8.9	5.7	10.7

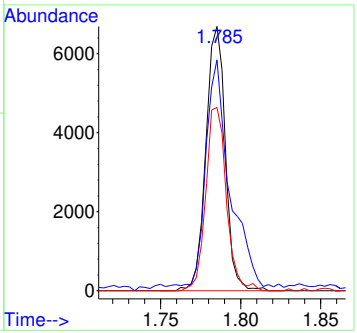


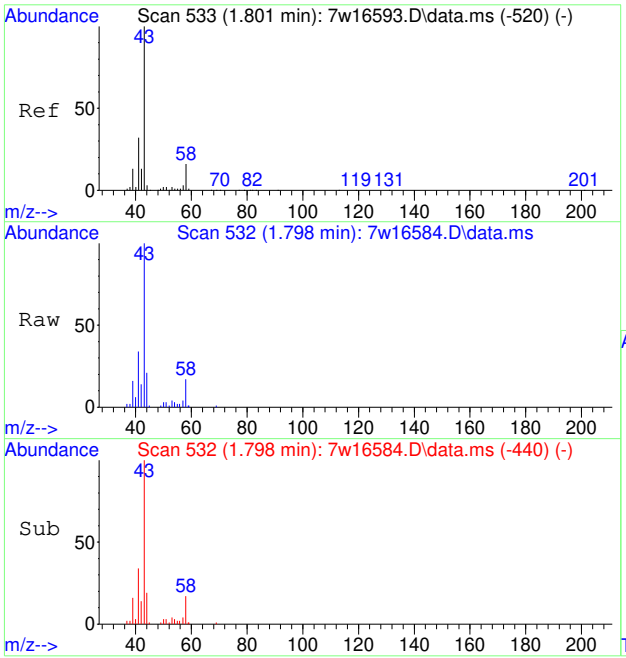


#12
1,3-BUTADIENE
Concen: 0.51 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 54 Resp: 5673

Ion	Ratio	Lower	Upper
54	100		
39	106.7	125.6	185.6#
53	73.4	40.7	100.7

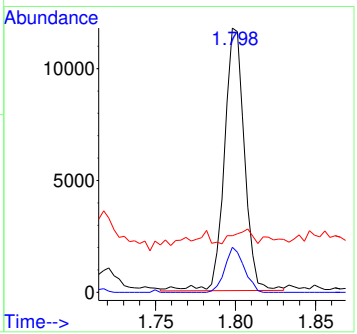


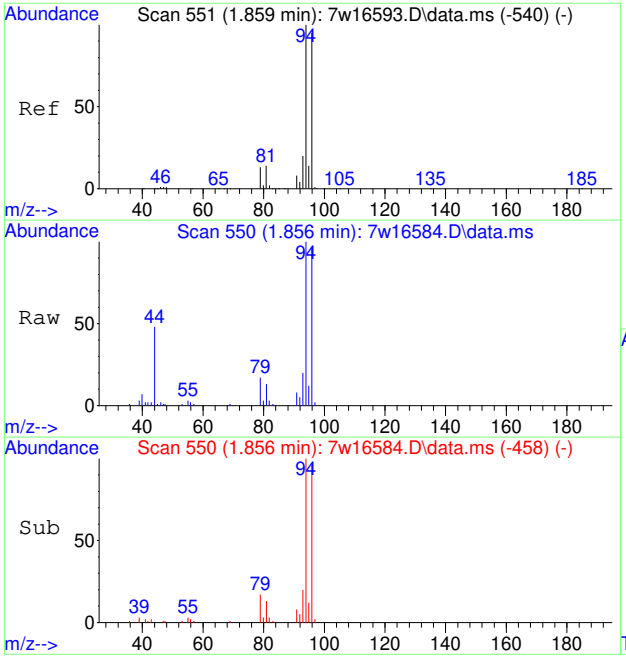


#13
N-BUTANE
Concen: 0.54 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 10254

Ion	Ratio	Lower	Upper
43	100		
58	16.4	10.4	19.4
44	24.5	3.0	5.6#

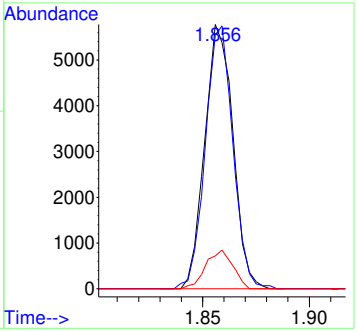


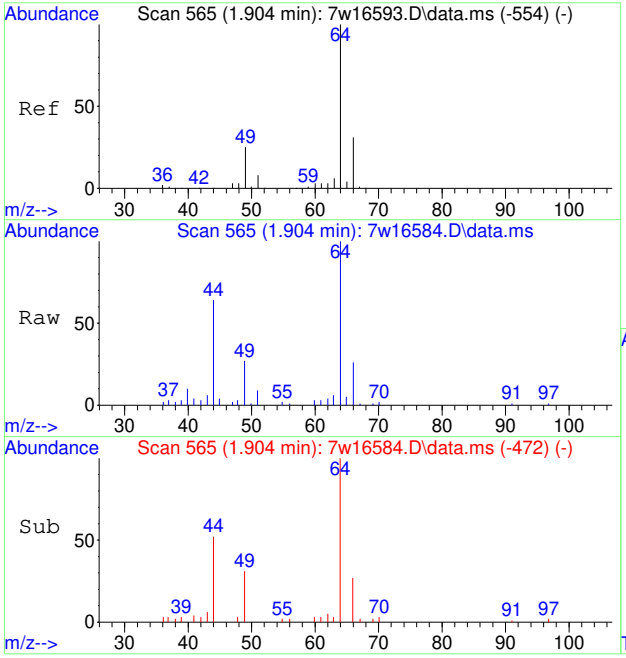


#14
BROMOMETHANE
Concen: 0.49 PPBV
RT: 1.856 min Scan# 550
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 94 Resp: 5311

Ion	Ratio	Lower	Upper
94	100		
96	97.2	63.6	118.0
95	14.2	10.0	18.6

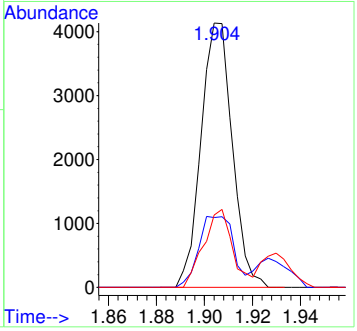


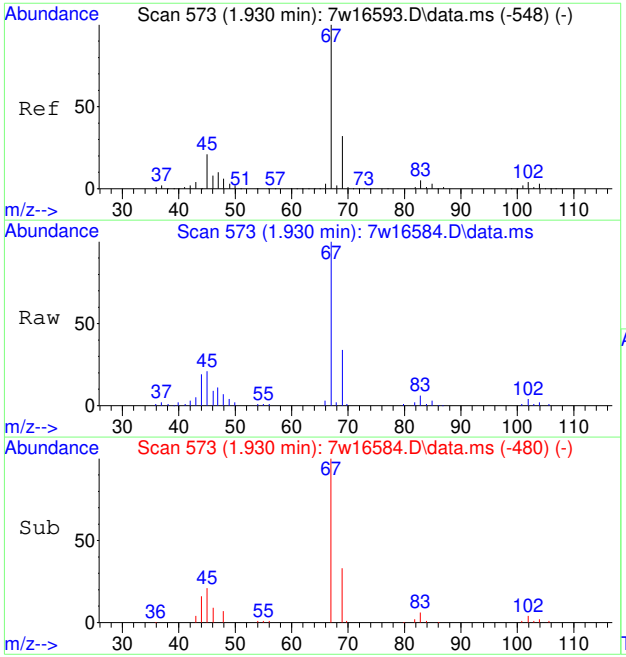


#15
CHLOROETHANE
Concen: 0.50 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 64 Resp: 3739

Ion	Ratio	Lower	Upper
64	100		
66	31.0	23.0	42.6
49	27.5	21.5	39.9

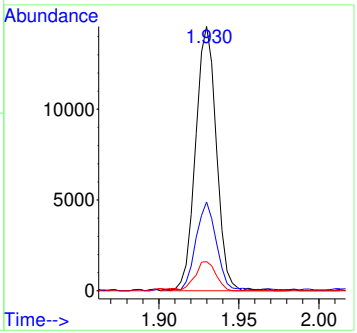


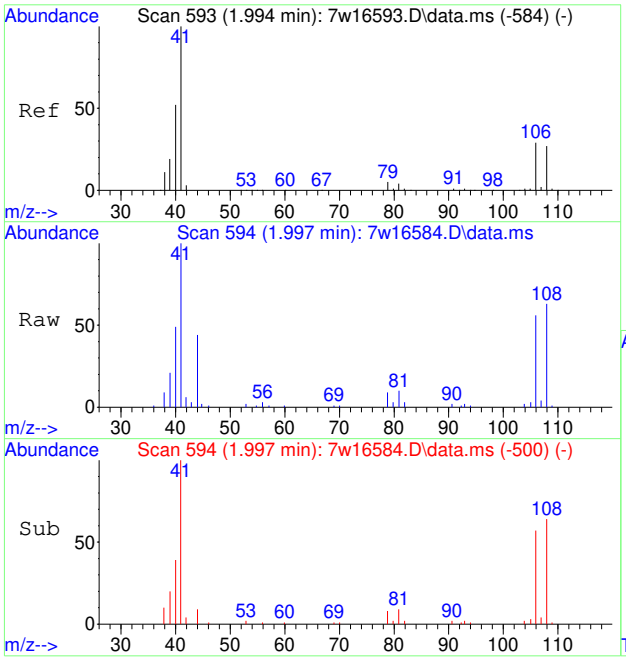


#16
DICHLOROFLUOROMETHANE
Concen: 0.49 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 67 Resp: 13156

Ion	Ratio	Lower	Upper
67	100		
69	34.1	23.2	43.0
47	11.9	9.6	17.8

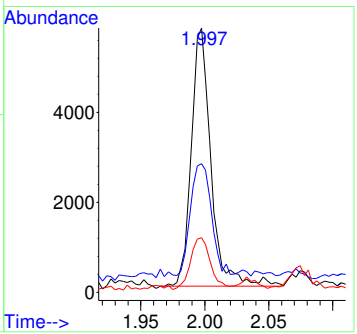


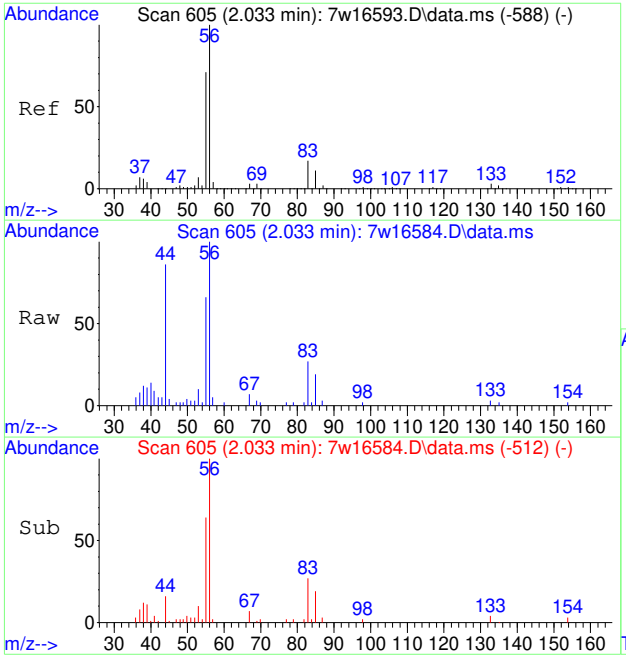


#17
ACETONITRILE
Concen: 0.52 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 41 Resp: 6126

Ion	Ratio	Lower	Upper
41	100		
40	61.6	38.4	71.4
39	19.6	14.5	26.9

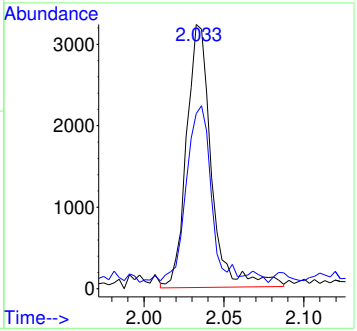


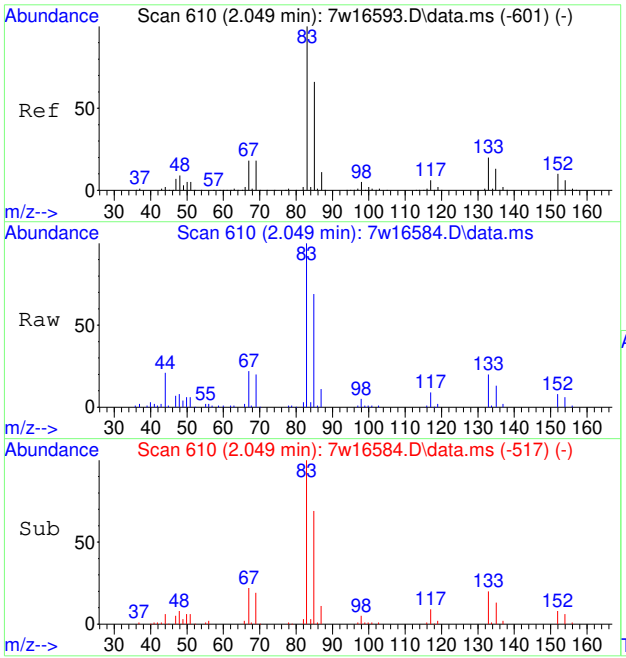


#18
ACROLEIN
Concen: 0.57 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 56 Resp: 3496

Ion	Ratio	Lower	Upper
56	100		
55	72.0	51.2	95.2

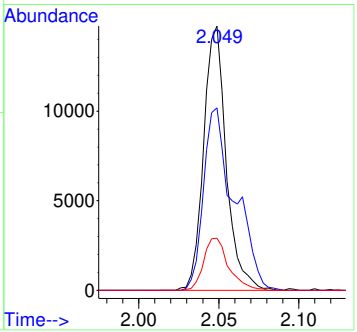


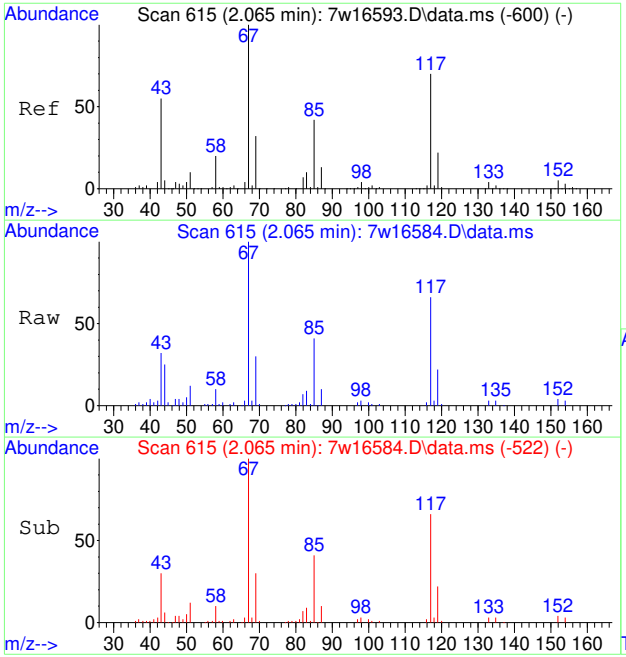


#19
FREON 123
Concen: 0.53 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14538

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.8	19.9	36.9

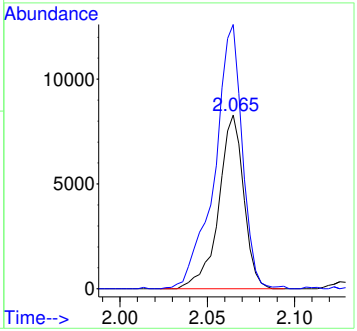


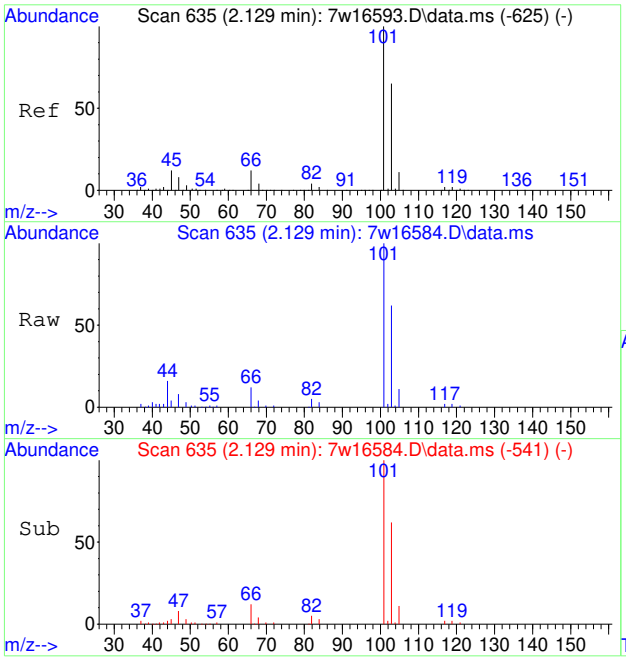


#20
FREON 123A
Concen: 0.51 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 8271

Ion	Ratio	Lower	Upper
117	100		
67	168.6	78.8	146.4#

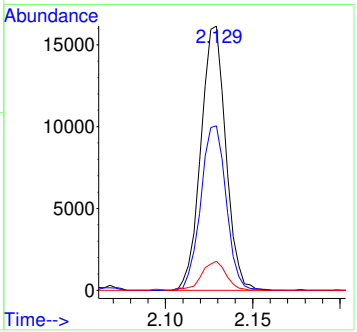


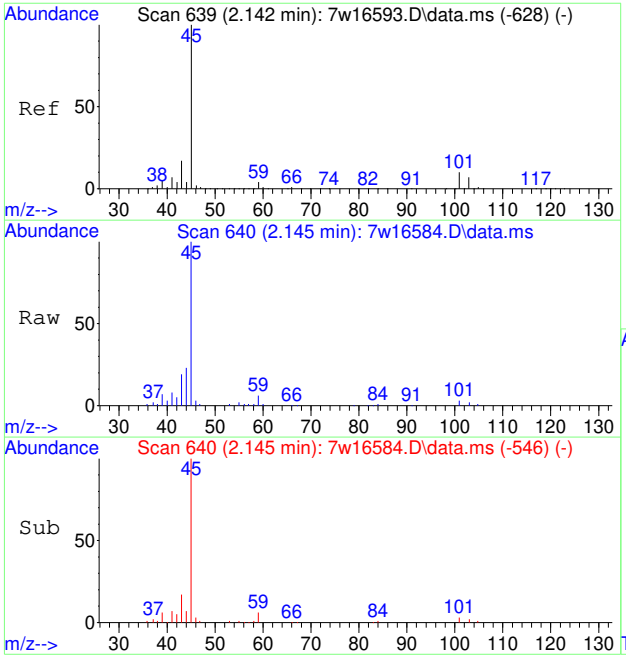


#21
TRICHLOROFLUOROMETHANE
Concen: 0.51 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:101 Resp: 16036

Ion	Ratio	Lower	Upper
101	100		
103	63.5	44.3	82.3
105	11.1	7.3	13.7

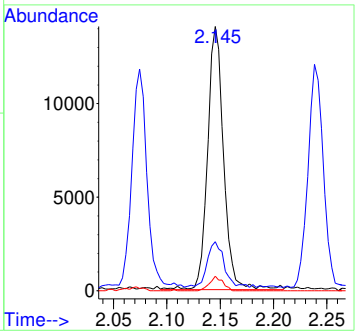


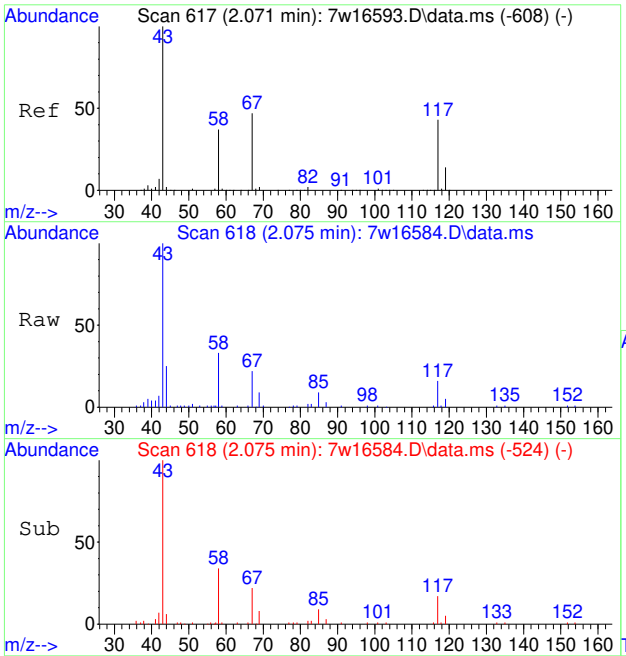


#22
ISOPROPYL ALCOHOL
Concen: 0.56 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 14702

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.5	3.1	5.8

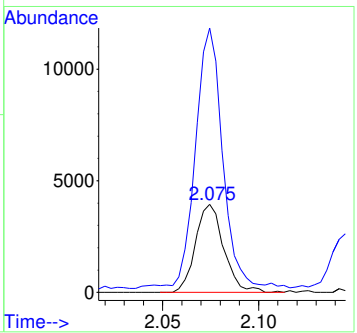


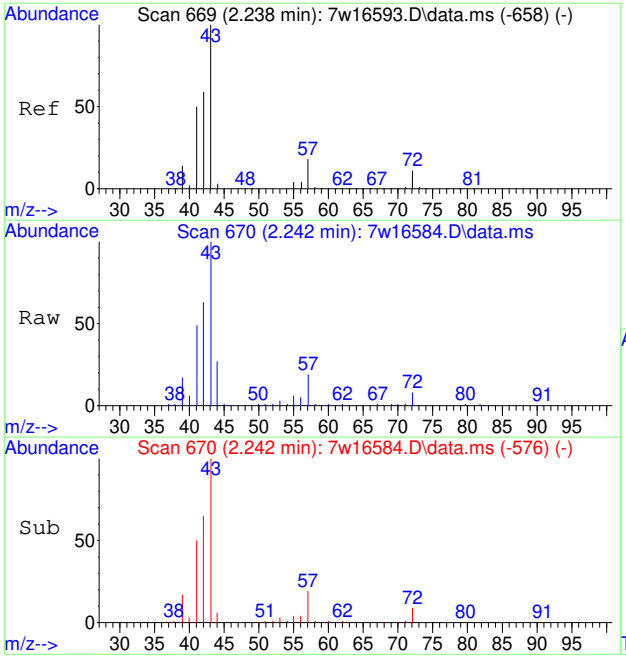


#23
ACETONE
Concen: 0.56 PPBV
RT: 2.075 min Scan# 618
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 4031

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

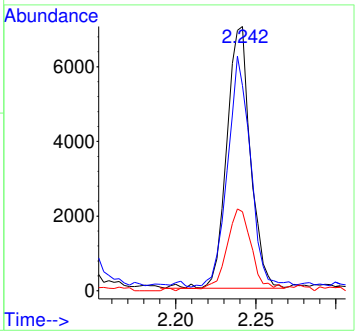


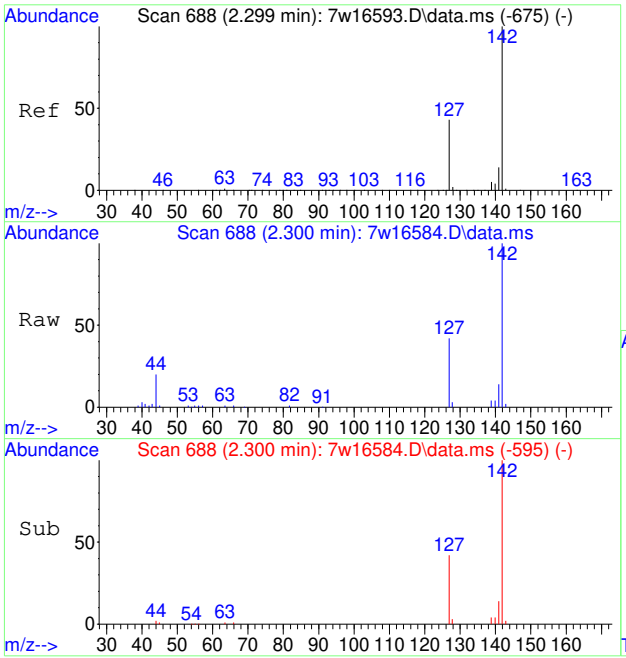


#24
PENTANE
Concen: 0.54 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 42 Resp: 7252

Ion	Ratio	Lower	Upper
42	100		
41	86.5	69.2	128.6
57	35.6	18.6	34.6#

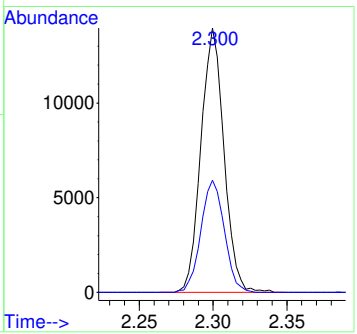


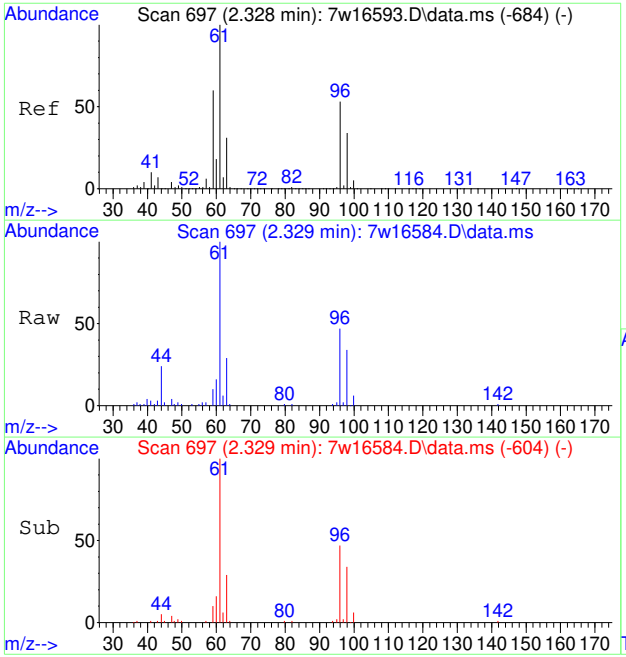


#25
IODOMETHANE
Concen: 0.52 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:142 Resp: 15067

Ion	Ratio	Lower	Upper
142	100		
127	43.2	32.1	59.7

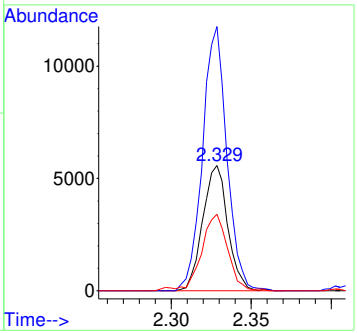


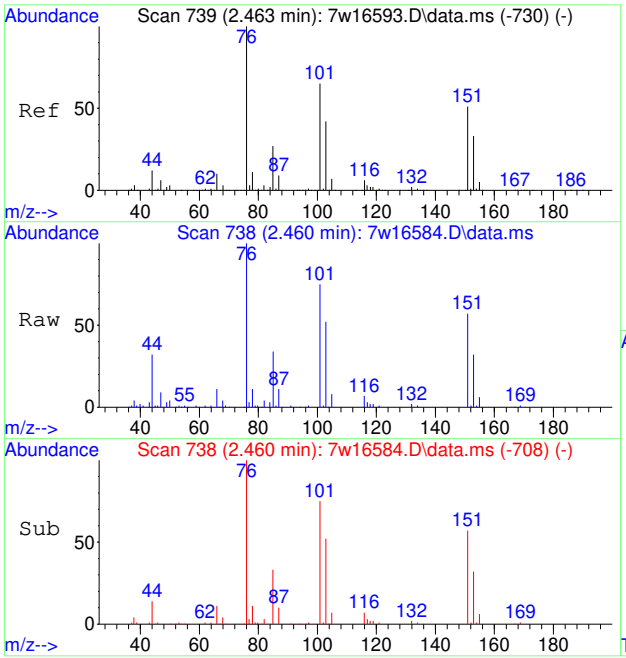


#26
1,1-DICHLOROETHYLENE
Concen: 0.52 PPBV
RT: 2.329 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6087

Ion	Ratio	Lower	Upper
96	100		
61	204.2	98.3	182.5#
63	64.2	33.2	61.7#

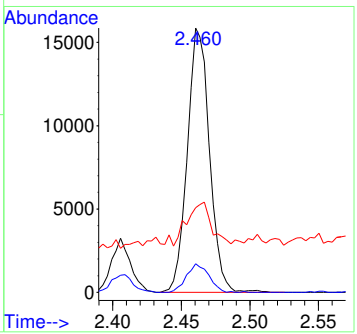


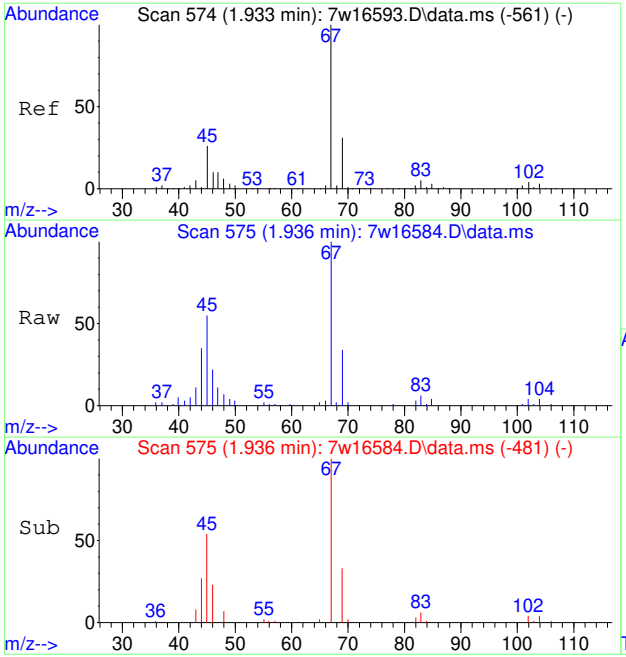


#27
CARBON DISULFIDE
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 17823

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	21.1	13.0	24.1

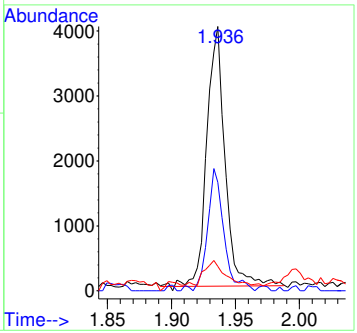


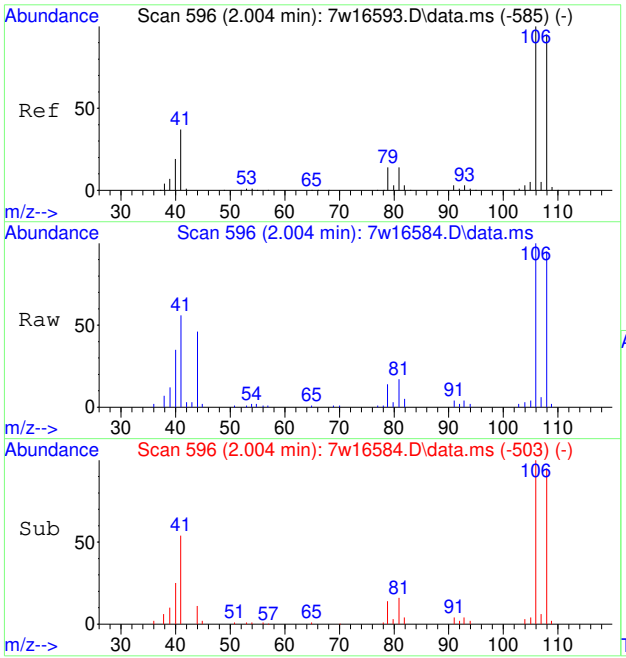


#28
ETHANOL
Concen: 0.60 PPBV
RT: 1.936 min Scan# 575
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 45 Resp: 3995

Ion	Ratio	Lower	Upper
45	100		
46	43.2	29.7	55.1
42	19.9	7.3	13.5#

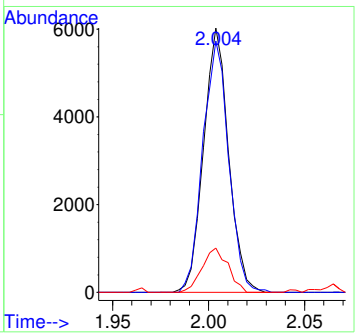


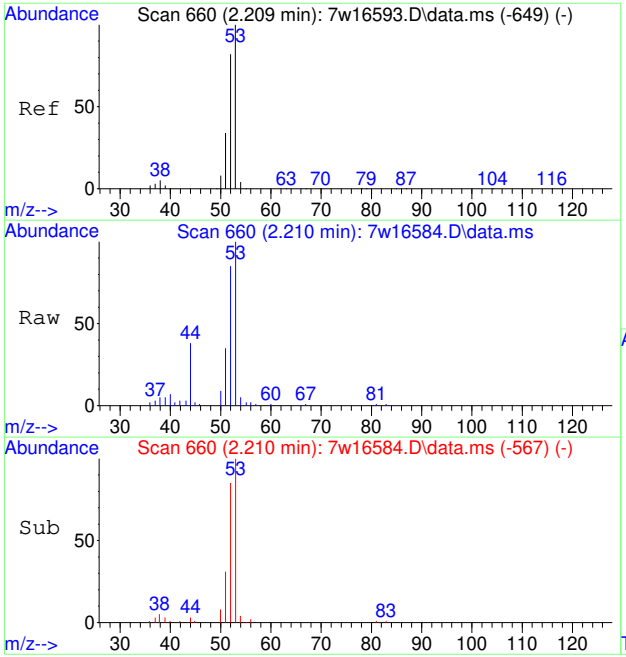


#29
BROMOETHENE
Concen: 0.48 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:106 Resp: 5459

Ion	Ratio	Lower	Upper
106	100		
108	98.1	68.3	126.8
81	17.4	14.7	27.3

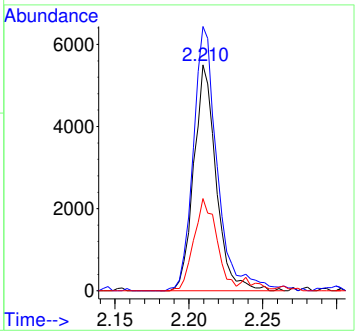


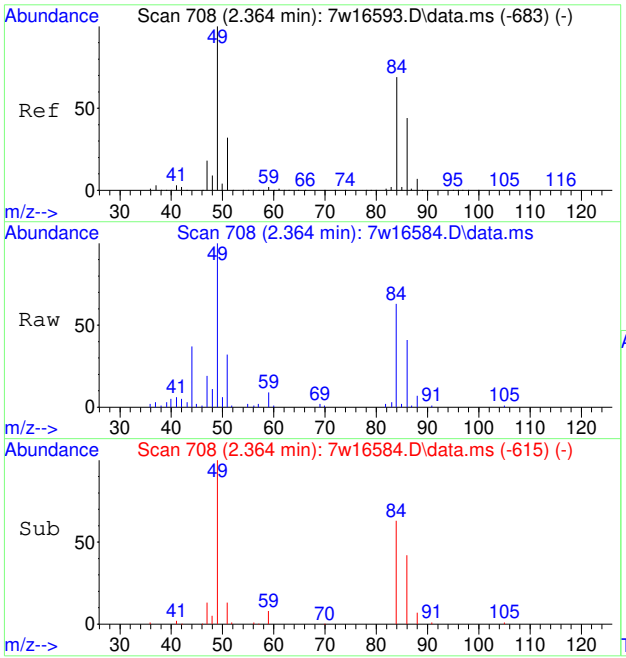


#30
ACRYLONITRILE
Concen: 0.58 PPBV
RT: 2.210 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 52 Resp: 5767

Ion	Ratio	Lower	Upper
52	100		
53	126.8	86.3	160.3
51	41.9	33.6	62.4

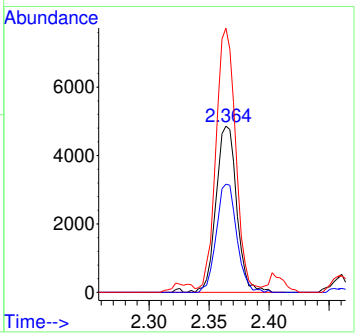


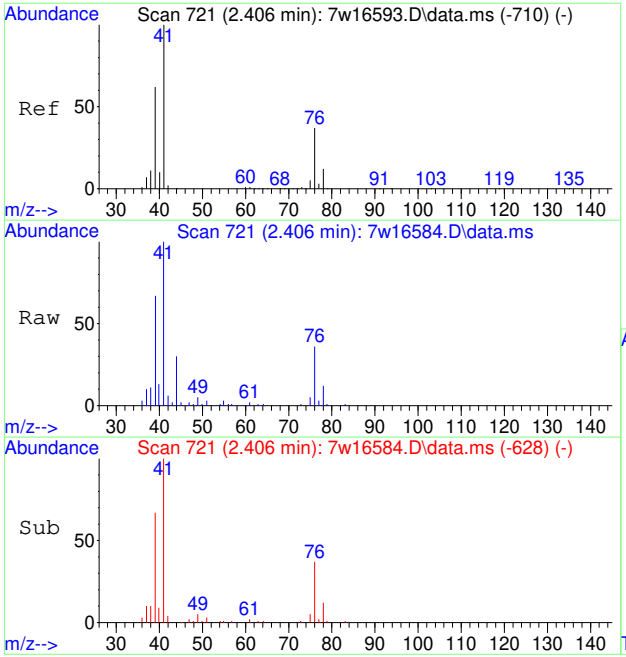


#31
METHYLENE CHLORIDE
Concen: 0.53 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 5842

Ion	Ratio	Lower	Upper
84	100		
86	64.4	44.9	83.5
49	156.9	79.7	148.1#

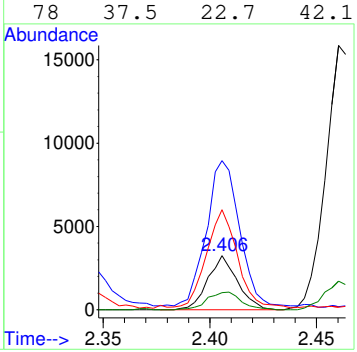


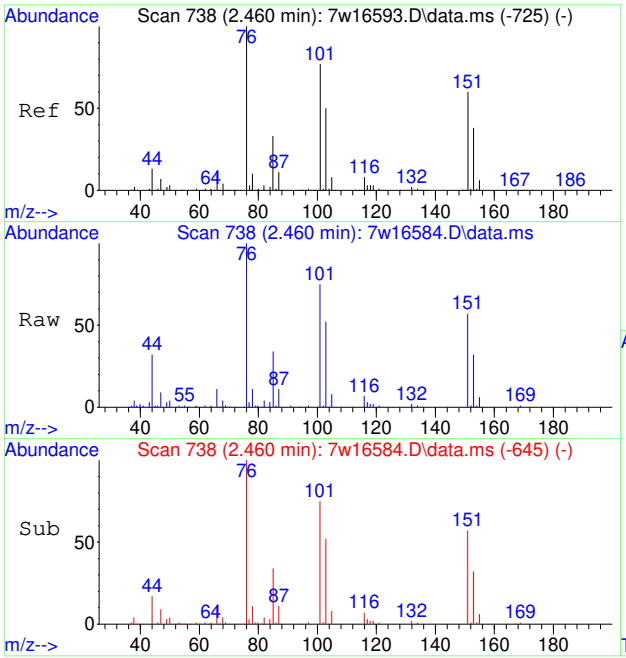


#32
3-CHLOROPROPENE
Concen: 0.50 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 3137

Ion	Ratio	Lower	Upper
76	100		
41	305.0	160.9	298.9#
39	194.1	150.7	279.9
78	37.5	22.7	42.1

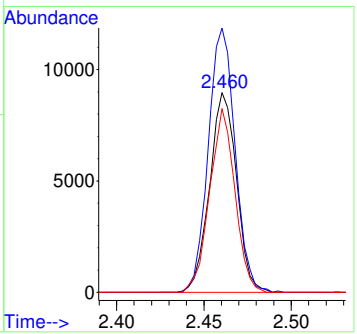


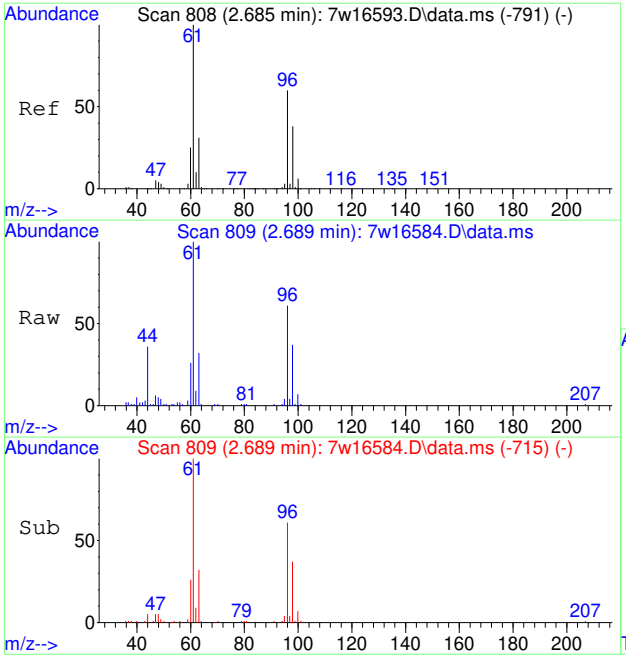


#33
FREON 113
Concen: 0.53 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:151 Resp: 9645

Ion	Ratio	Lower	Upper
151	100		
101	131.3	81.1	150.7
103	86.0	51.4	95.4

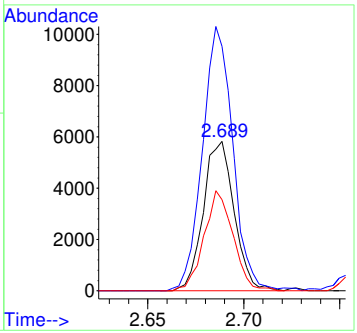


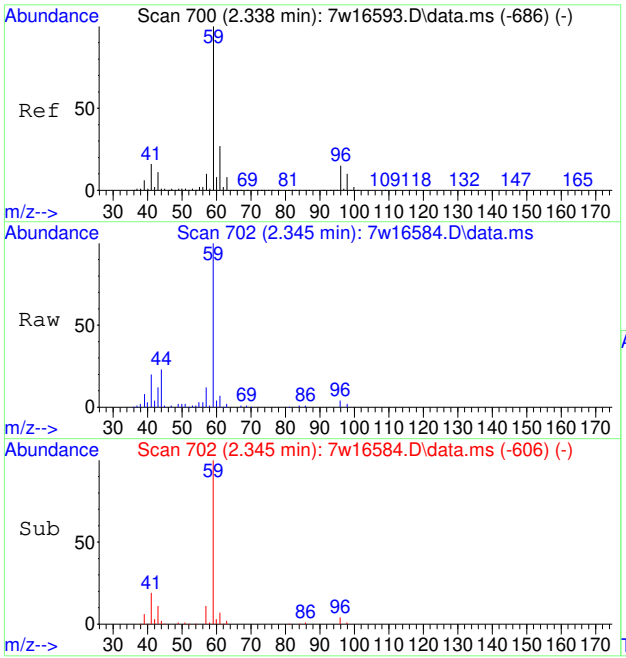


#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6513

Ion	Ratio	Lower	Upper
96	100		
61	175.4	78.5	145.9#
98	63.1	46.5	86.3

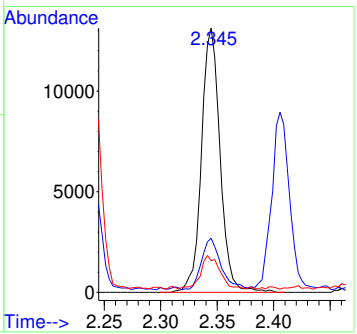


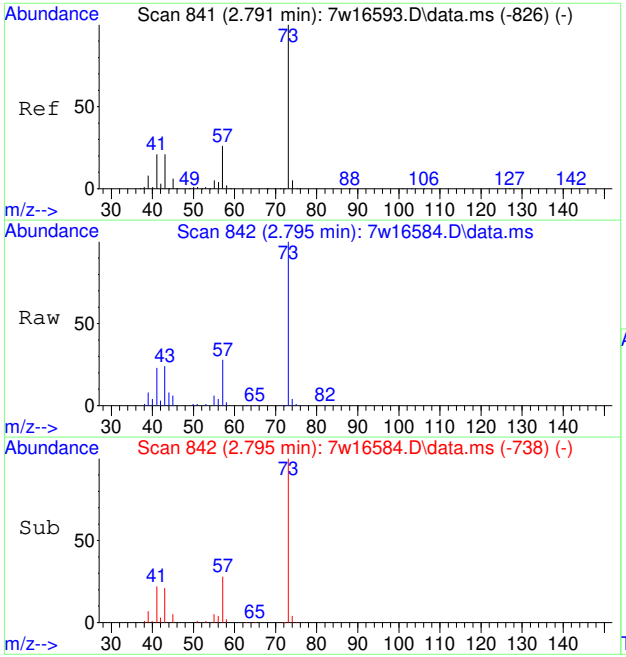


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.47 PPBV
RT: 2.345 min Scan# 702
Delta R.T. 0.010 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 15020

Ion	Ratio	Lower	Upper
59	100		
41	20.4	15.3	28.5
43	12.8	12.3	22.9

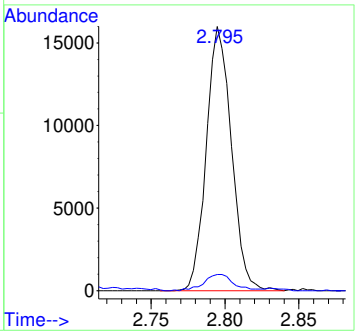


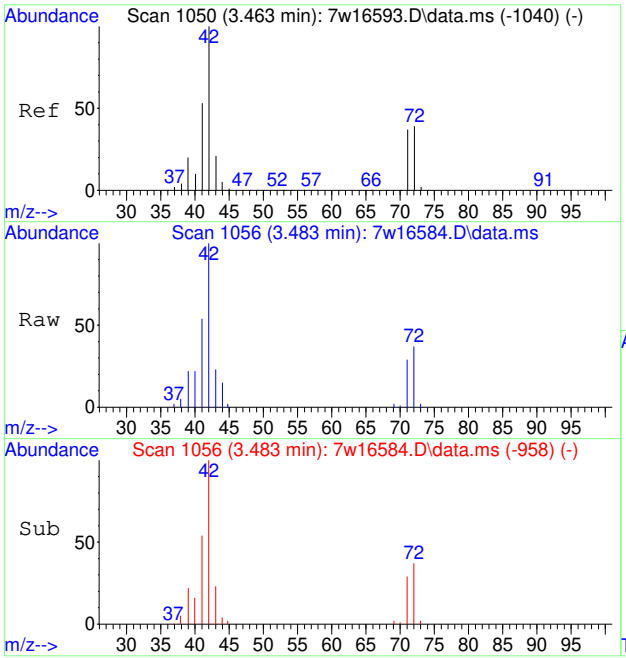


#36
METHYL TERTIARY BUTYL ETHER
Concen: 0.52 PPBV
RT: 2.795 min Scan# 842
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 73 Resp: 18863

Ion	Ratio	Lower	Upper
73	100		
45	8.1	3.4	6.4#

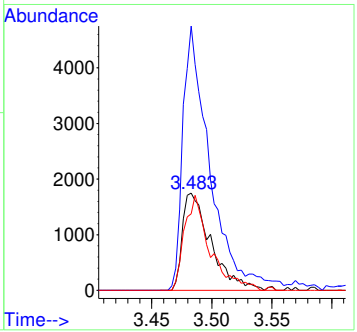


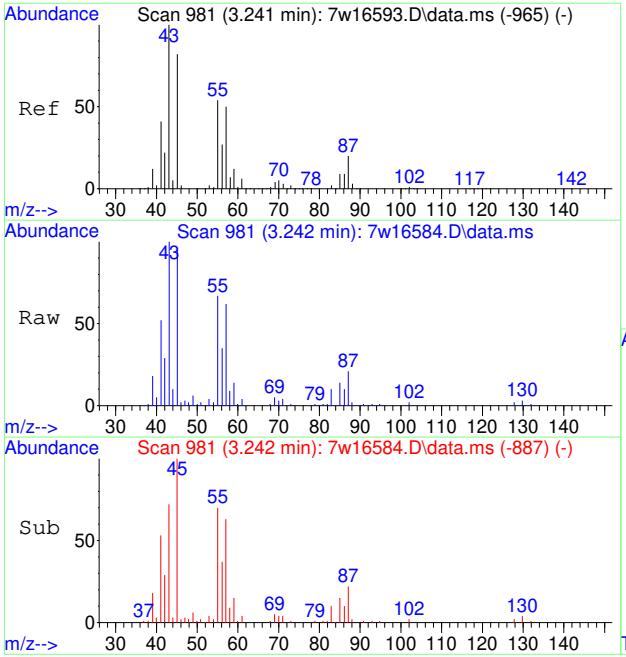


#37
TETRAHYDROFURAN
Concen: 0.48 PPBV
RT: 3.483 min Scan# 1056
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 2906

Ion	Ratio	Lower	Upper
72	100		
42	264.6	153.0	284.2
71	88.4	62.7	116.5

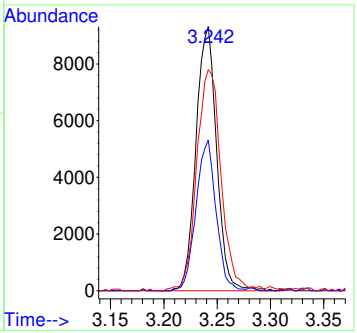


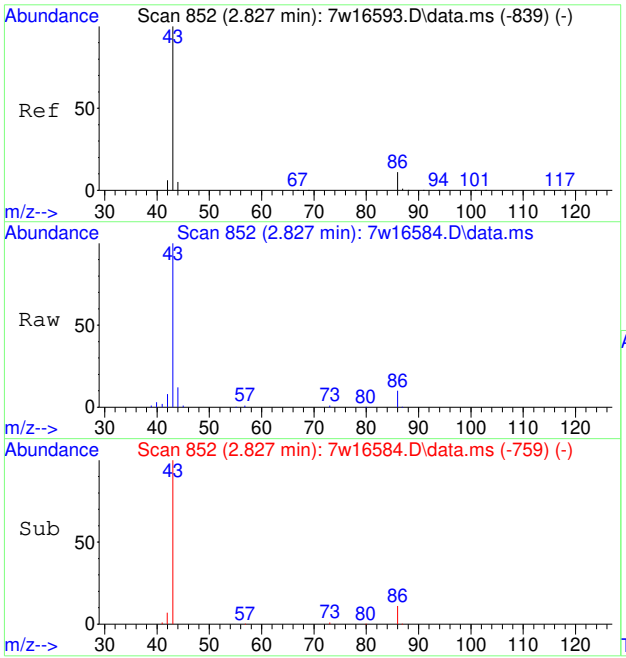


#38
HEXANE
Concen: 0.52 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 12572

Ion	Ratio	Lower	Upper
57	100		
56	55.7	37.3	69.3
41	98.4	86.7	161.1

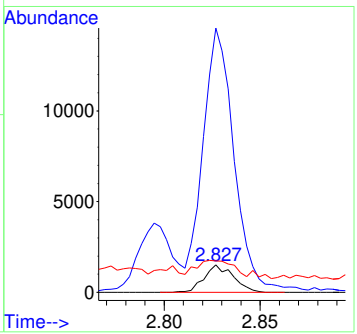


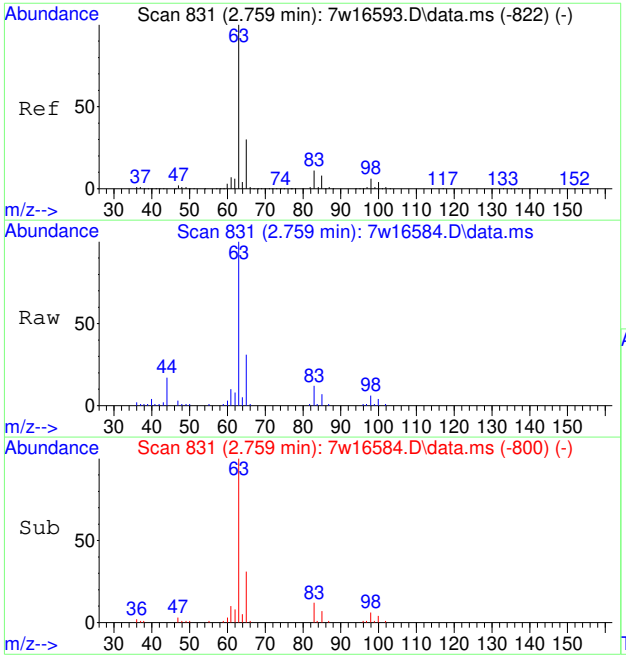


#39
VINYL ACETATE
Concen: 0.45 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 86 Resp: 1605

Ion	Ratio	Lower	Upper
86	100		
43	1019.3	667.9	1240.3
44	95.6	32.7	60.7#

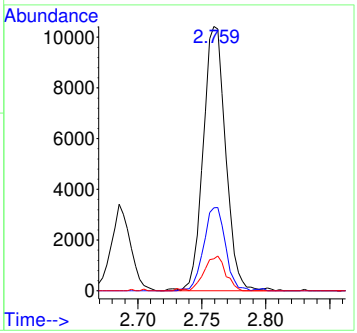


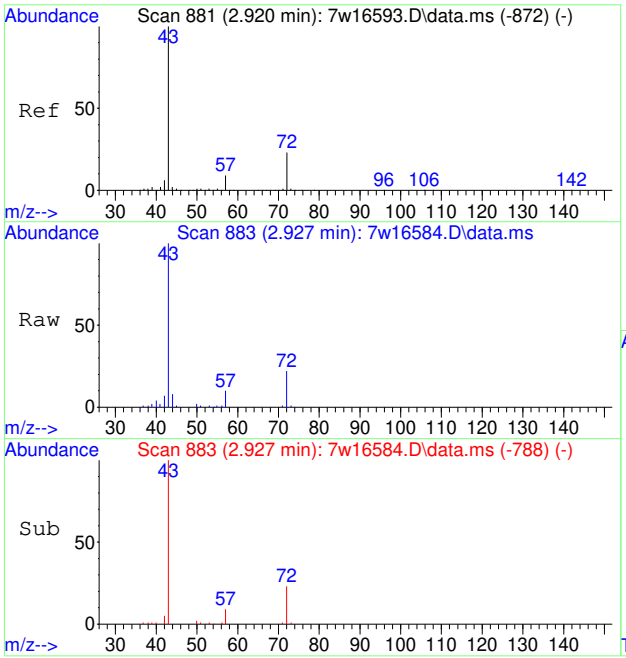


#40
1,1-DICHLOROETHANE
Concen: 0.50 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 12723

Ion	Ratio	Lower	Upper
63	100		
65	30.9	21.8	40.6
83	12.8	10.6	19.6

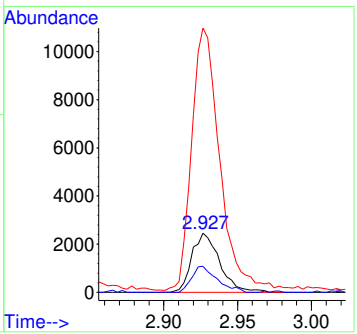


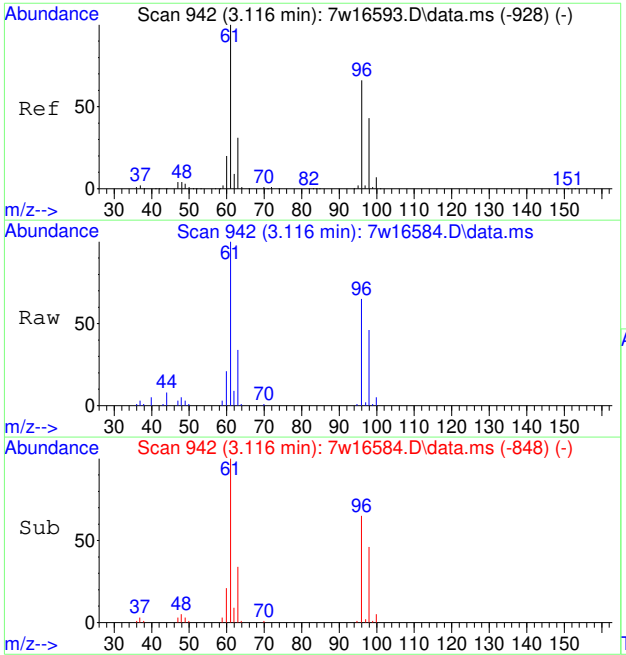


#41
METHYL ETHYL KETONE
Concen: 0.49 PPBV
RT: 2.927 min Scan# 883
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 72 Resp: 3223

Ion	Ratio	Lower	Upper
72	100		
57	40.2	20.3	37.7#
43	453.6	282.8	525.2

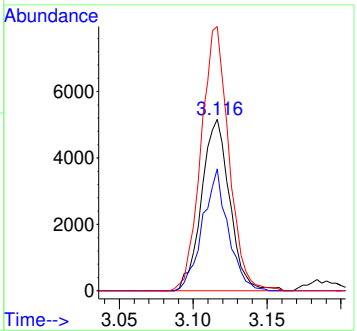


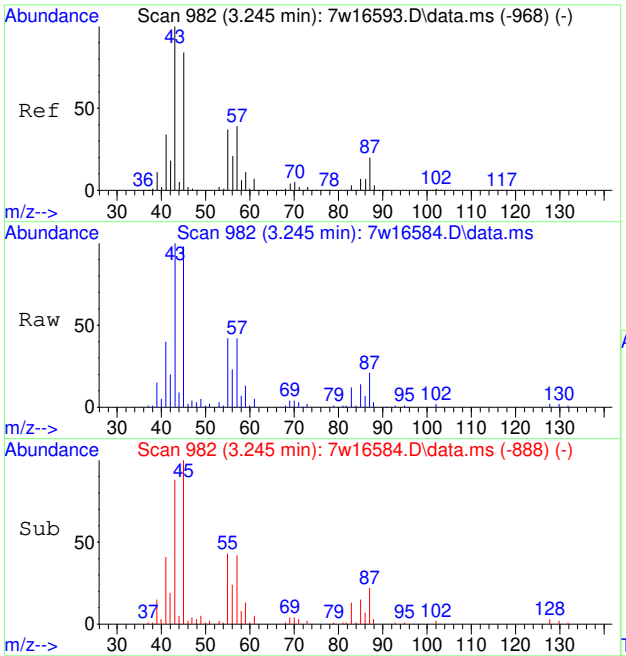


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.51 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 96 Resp: 6837

Ion	Ratio	Lower	Upper
96	100		
98	64.4	46.8	86.8
61	152.1	78.3	145.5#

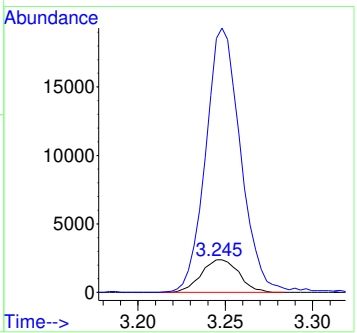


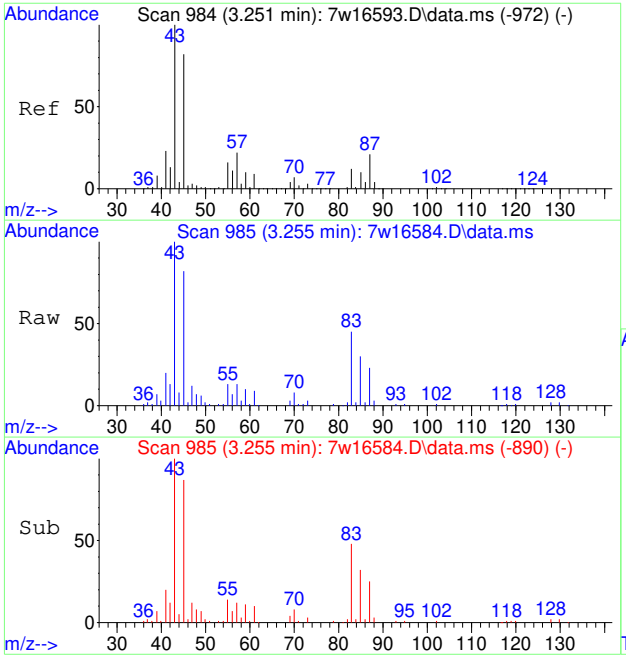


#43
DIISOPROPYL ETHER
Concen: 0.51 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 59 Resp: 3577

Ion	Ratio	Lower	Upper
59	100		
45	758.7	532.1	988.1

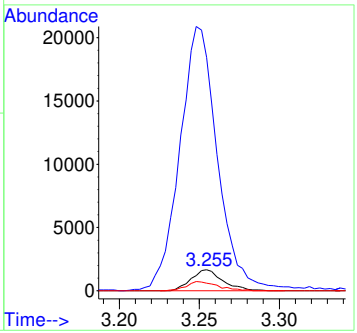


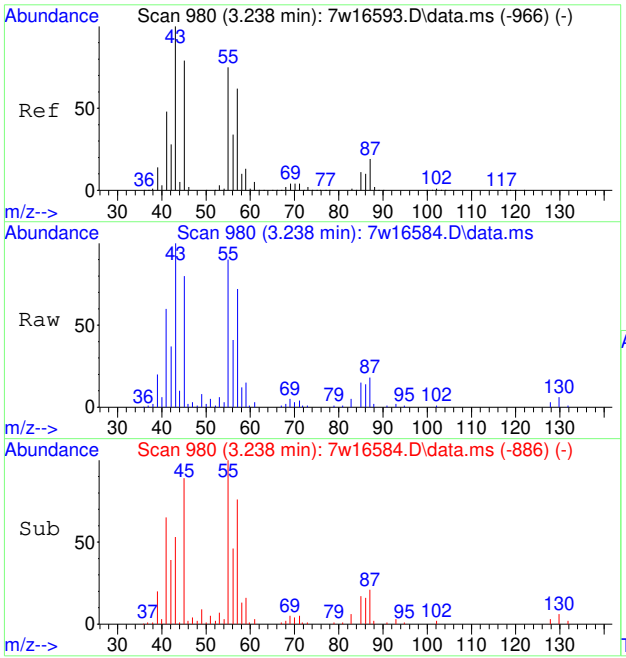


#44
ETHYL ACETATE
Concen: 0.47 PPBV
RT: 3.255 min Scan# 985
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 61 Resp: 2292

Ion	Ratio	Lower	Upper
61	100		
43	1515.1	1127.5	2093.9
88	43.9	36.2	67.2

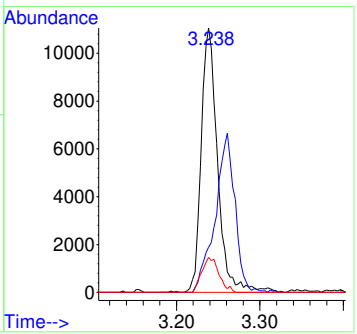


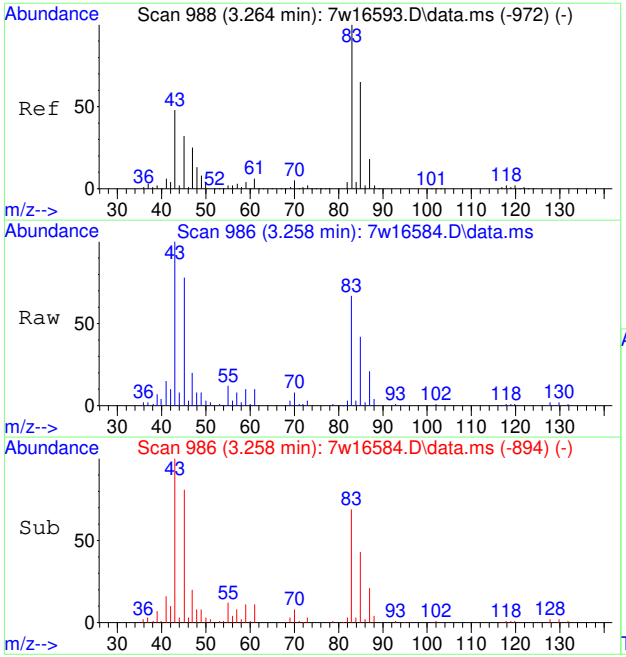


#45
METHYL ACRYLATE
Concen: 0.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 15089

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

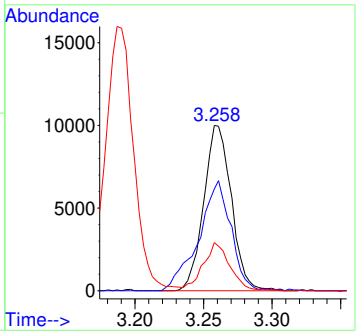


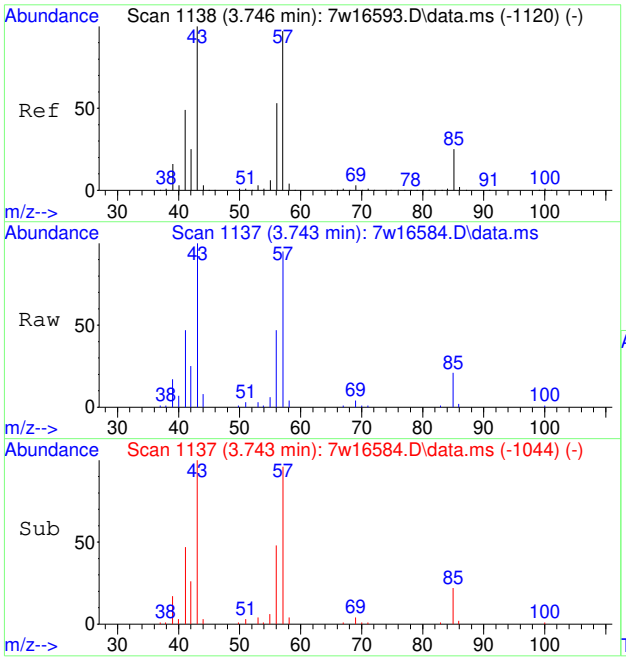


#46
CHLOROFORM
Concen: 0.53 PPBV
RT: 3.258 min Scan# 986
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14039

Ion	Ratio	Lower	Upper
83	100		
85	78.2	54.6	101.4
47	28.4	17.9	33.3

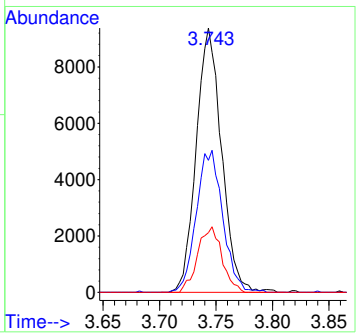


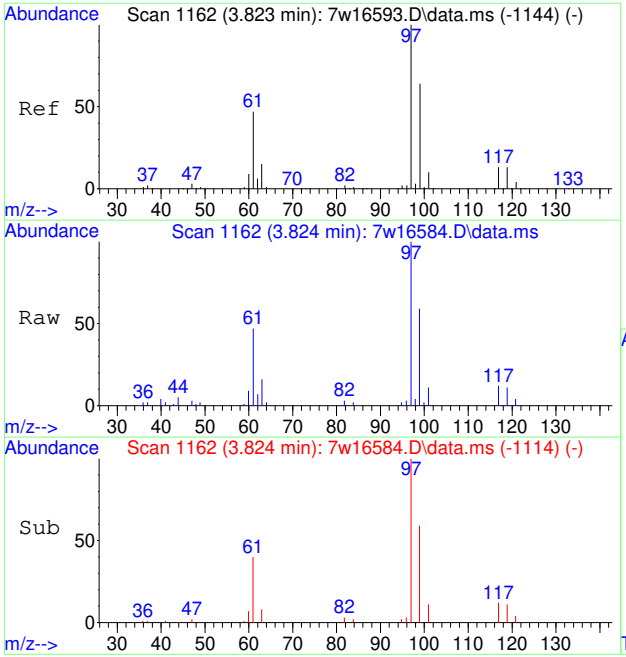


#47
2,4-DIMETHYLPENTANE
Concen: 0.53 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 14638

Ion	Ratio	Lower	Upper
57	100		
56	56.1	39.2	72.8
85	23.7	24.1	44.7#

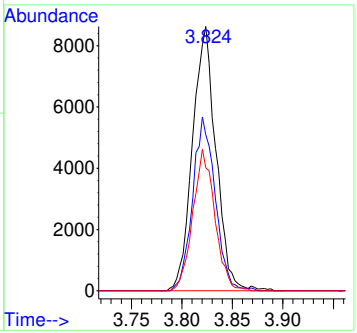


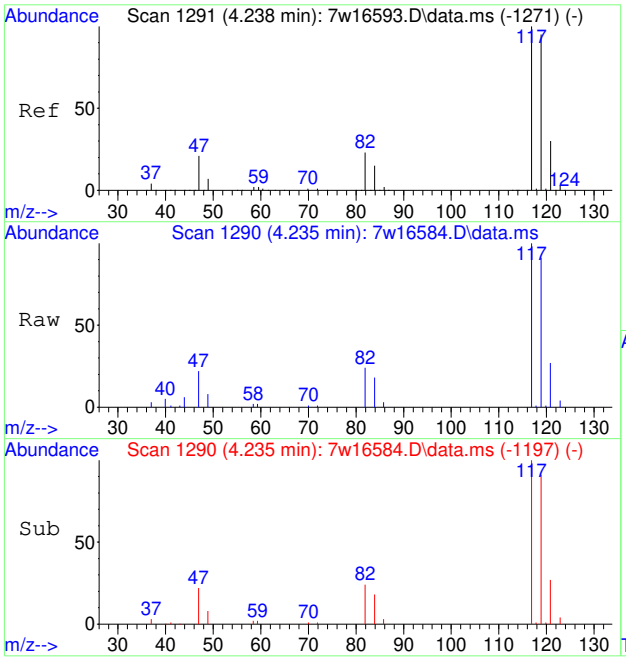


#48
1,1,1-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 97 Resp: 13952

Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.9	83.5
61	50.0	28.6	53.0

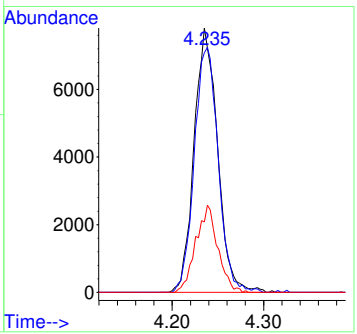


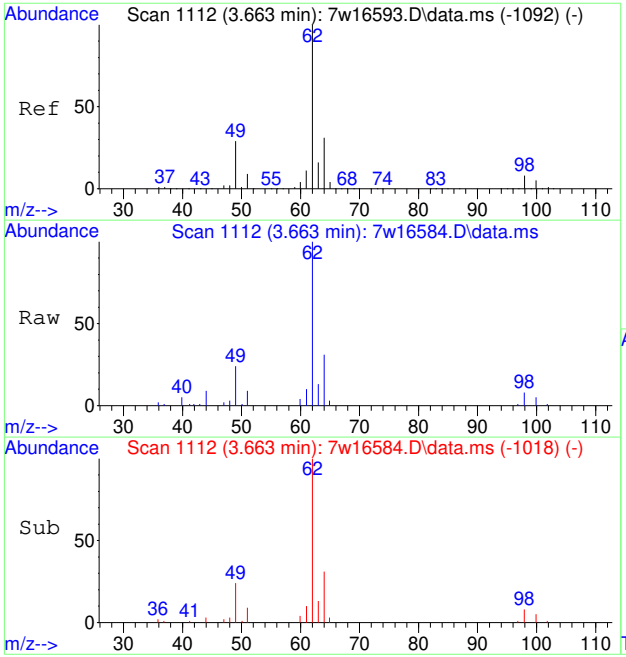


#49
CARBON TETRACHLORIDE
Concen: 0.47 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 13931

Ion	Ratio	Lower	Upper
117	100		
119	94.6	68.8	127.8
121	30.7	22.2	41.2

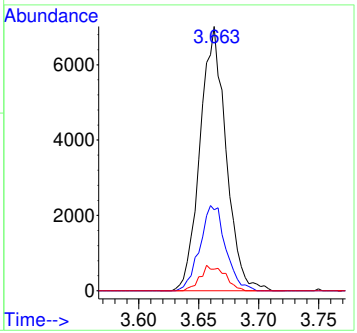


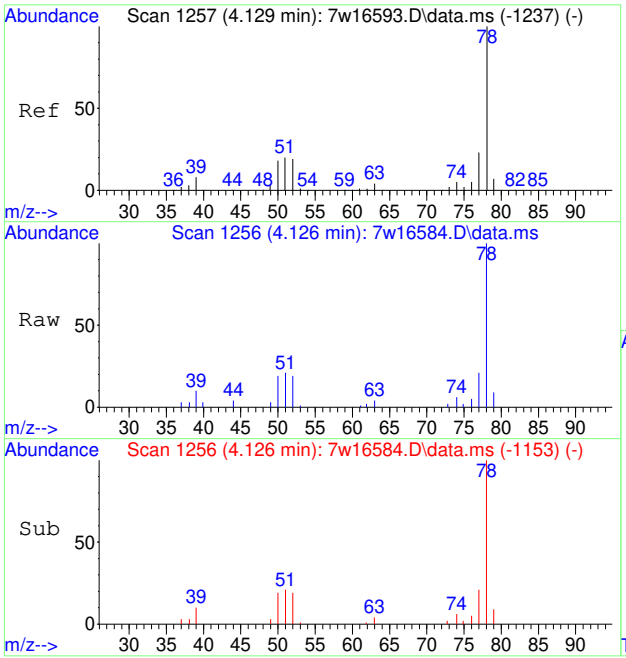


#50
1,2-DICHLOROETHANE
Concen: 0.51 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 62 Resp: 10566

Ion	Ratio	Lower	Upper
62	100		
64	32.0	22.5	41.7
98	9.0	6.8	12.6

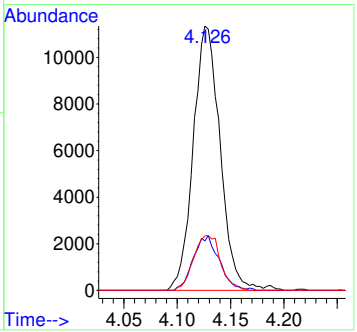


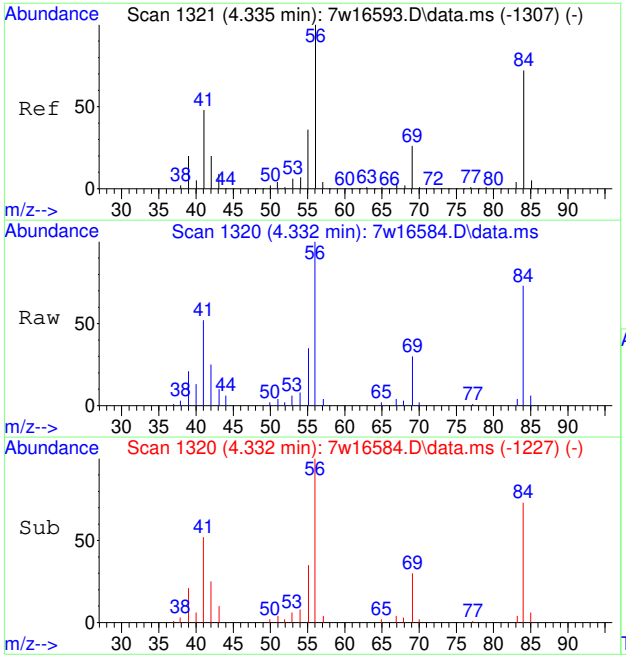


#51
BENZENE
Concen: 0.51 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 78 Resp: 19953

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	44.6
51	20.9	0.0	47.3

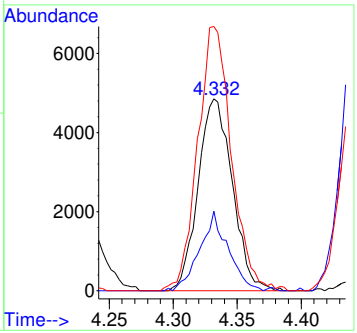


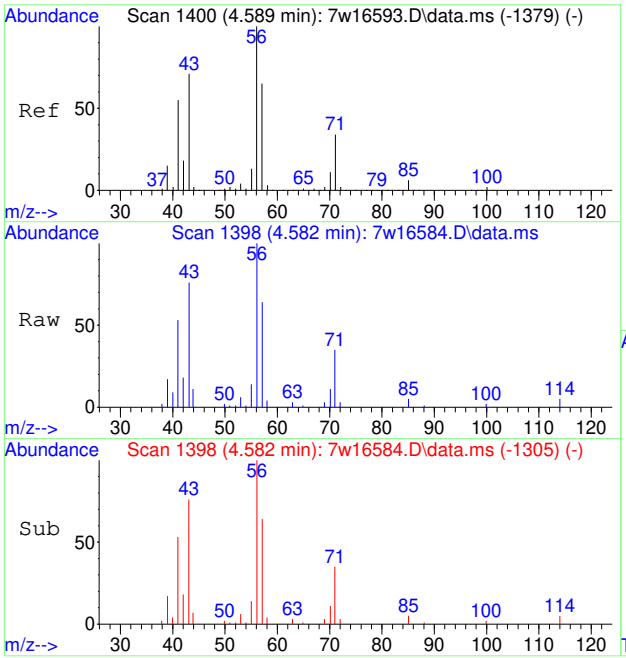


#53
CYCLOHEXANE
Concen: 0.51 PPBV
RT: 4.332 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 84 Resp: 9049

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	136.0	70.2	130.4#

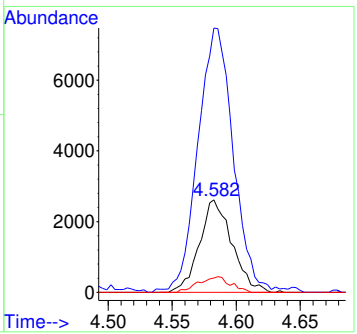


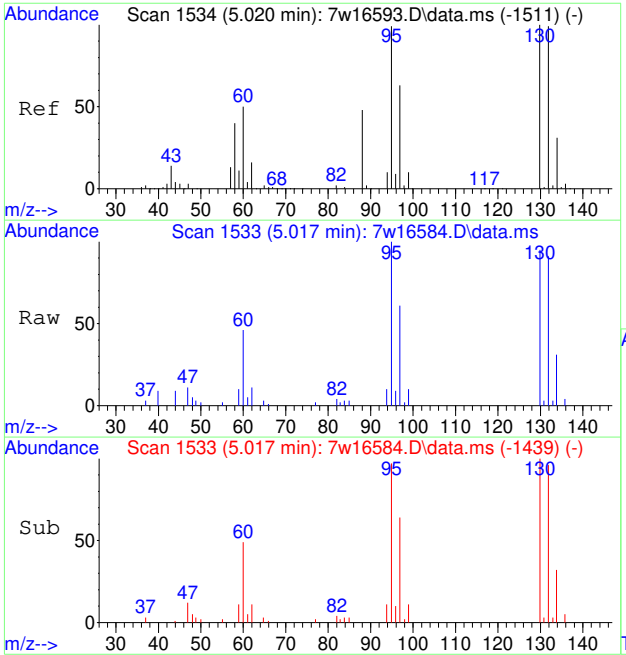


#54
2,3-DIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 71 Resp: 4648

Ion	Ratio	Lower	Upper
71	100		
56	311.5	171.4	318.4
85	16.7	12.6	23.4

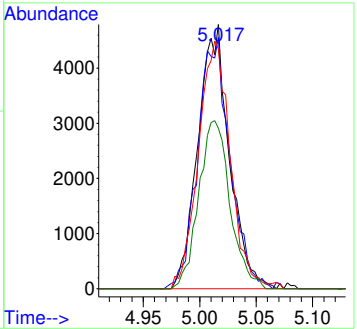


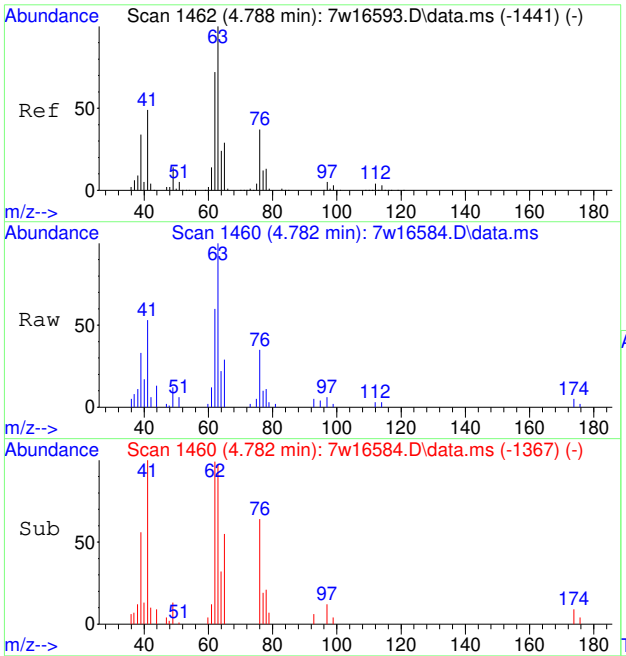


#55
TRICHLOROETHENE
Concen: 0.49 PPBV
RT: 5.017 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 95 Resp: 9226

Ion	Ratio	Lower	Upper
95	100		
130	97.8	85.9	159.5
132	95.6	79.4	147.4
97	63.7	45.0	83.6

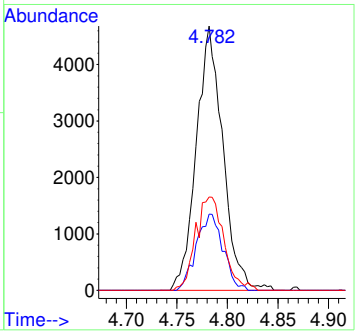


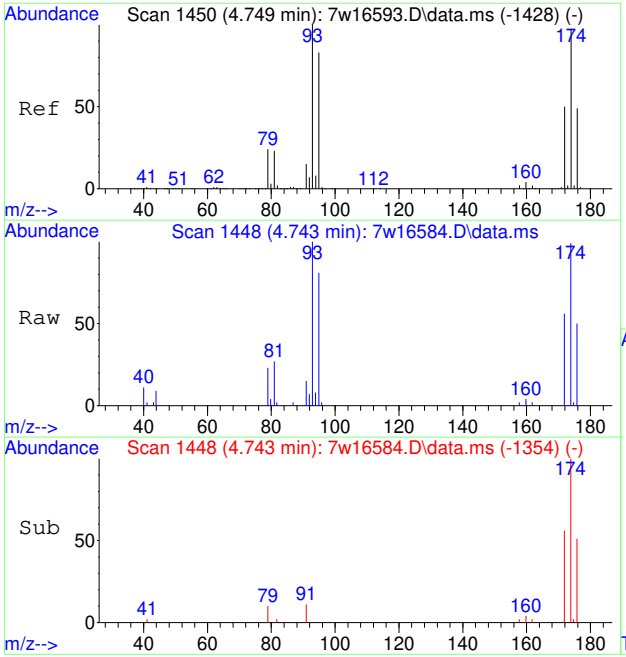


#56
1,2-DICHLOROPROPANE
Concen: 0.51 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 63 Resp: 8549

Ion	Ratio	Lower	Upper
63	100		
65	29.1	22.6	42.0
76	37.7	31.8	59.0

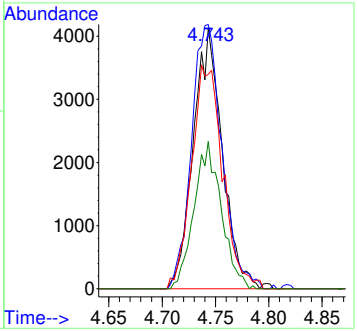


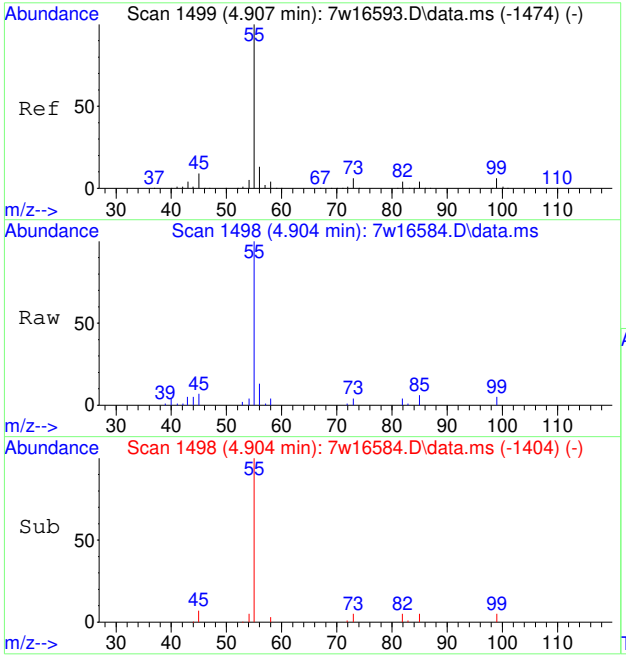


#57
DIBROMOMETHANE
Concen: 0.51 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:174 Resp: 7819

Ion	Ratio	Lower	Upper
174	100		
93	106.5	67.3	125.1
95	91.9	56.8	105.6
172	52.9	36.3	67.5

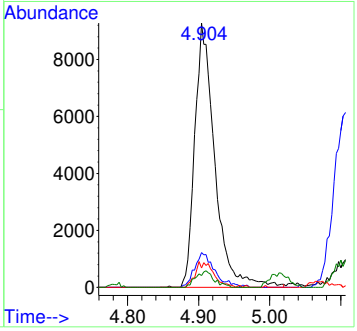


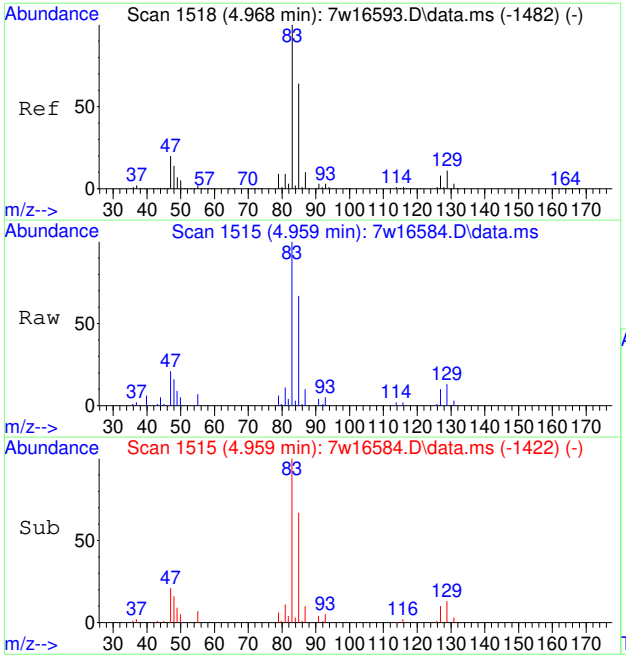


#58
ETHYL ACRYLATE
Concen: 0.48 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 55 Resp: 18149

Ion	Ratio	Lower	Upper
55	100		
56	13.3	7.9	14.7
45	9.0	6.6	12.2
99	5.7	6.2	11.6#

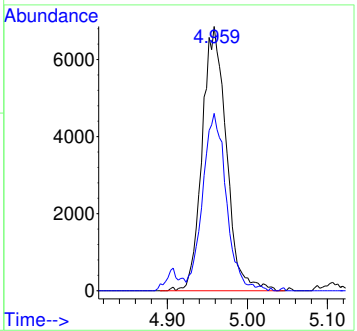


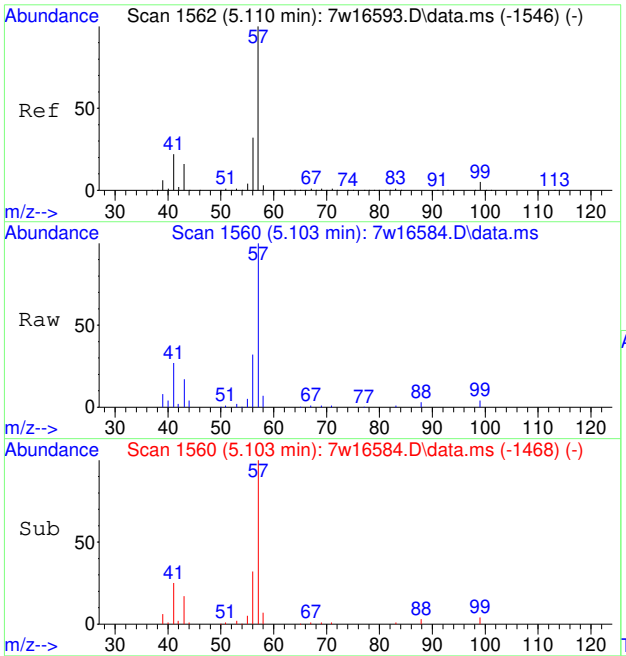


#59
BROMODICHLOROMETHANE
Concen: 0.46 PPBV
RT: 4.959 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 14412

Ion	Ratio	Lower	Upper
83	100		
85	65.8	44.9	83.5

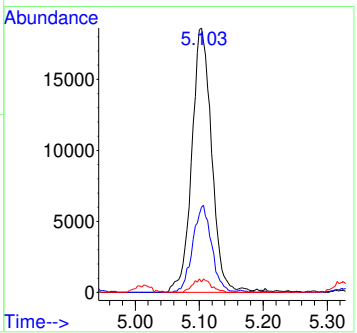


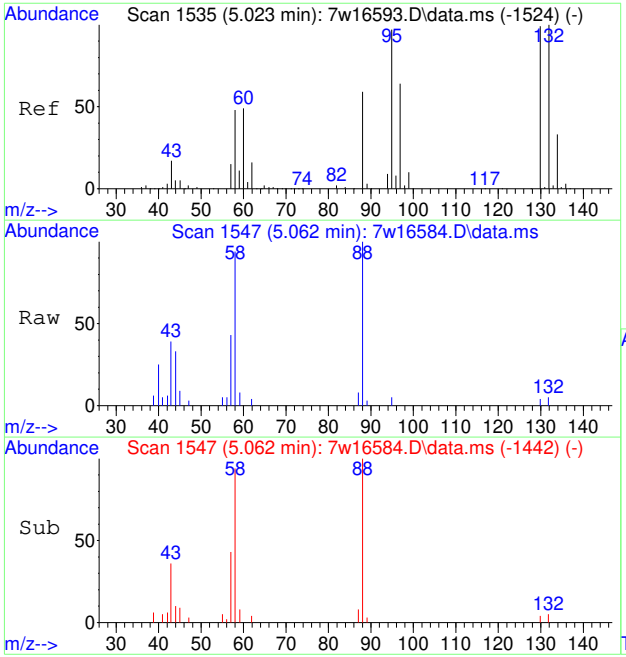


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.51 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 57 Resp: 40435

Ion	Ratio	Lower	Upper
57	100		
56	31.0	24.4	45.2
99	4.6	5.2	9.6#

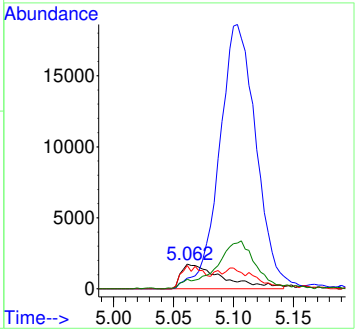


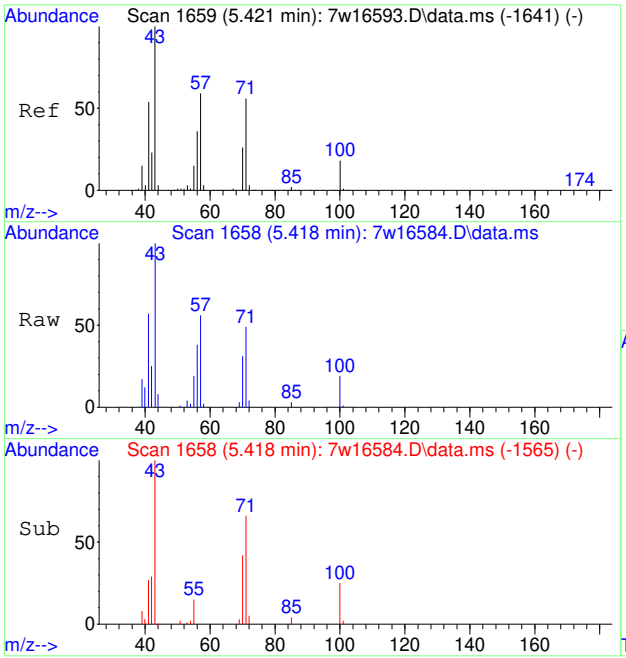


#61
1,4-DIOXANE
Concen: 0.45 PPBV
RT: 5.062 min Scan# 1547
Delta R.T. 0.039 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 88 Resp: 4245

Ion	Ratio	Lower	Upper
88	100		
57	0.0	13.1	24.3#
58	47.1	39.1	72.5
43	0.0	18.3	33.9#

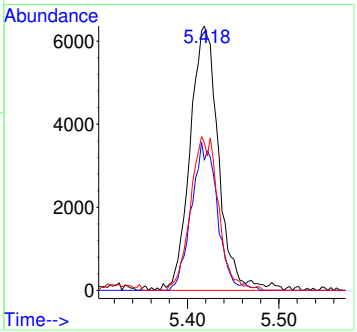


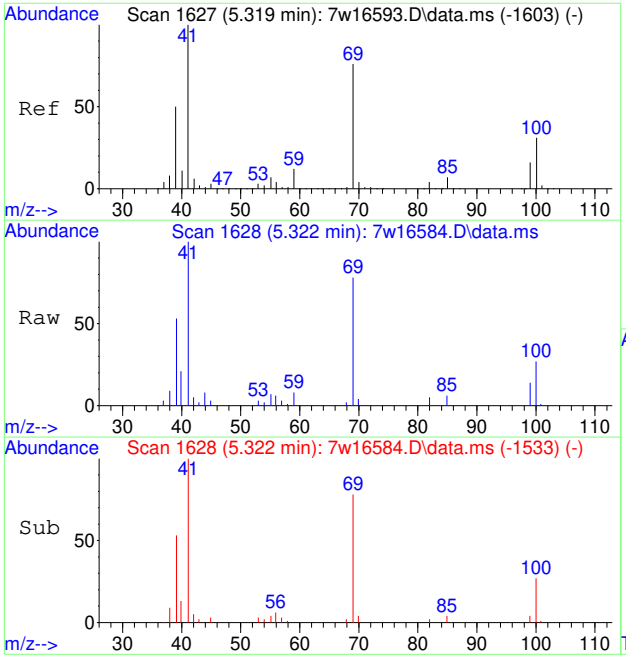


#62
HEPTANE
Concen: 0.52 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 13738

Ion	Ratio	Lower	Upper
43	100		
71	51.3	45.0	83.6
57	57.2	37.2	69.0

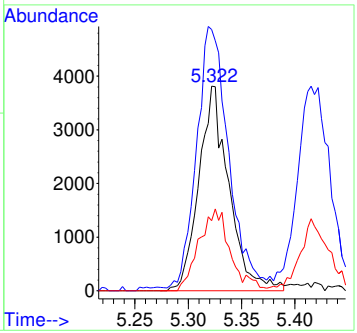


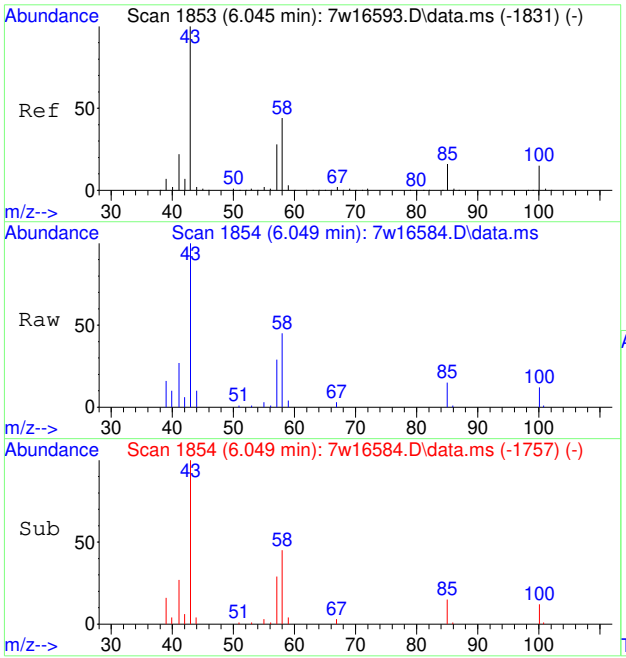


#63
METHYL METHACRYLATE
Concen: 0.49 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 7482

Ion	Ratio	Lower	Upper
69	100		
41	138.4	84.3	156.5
100	41.6	30.8	57.2

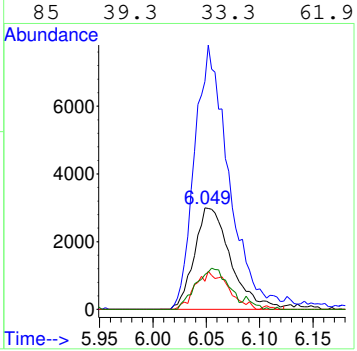


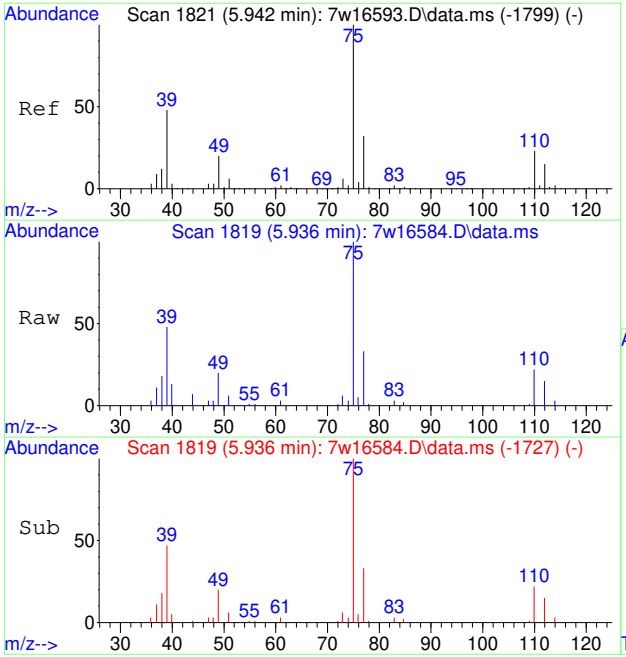


#64
METHYL ISOBUTYL KETONE
Concen: 0.46 PPBV
RT: 6.049 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 7119

Ion	Ratio	Lower	Upper
58	100		
43	253.5	193.8	360.0
100	34.7	32.8	60.8
85	39.3	33.3	61.9

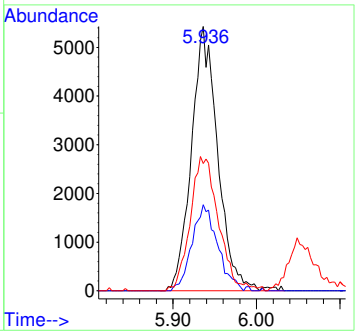


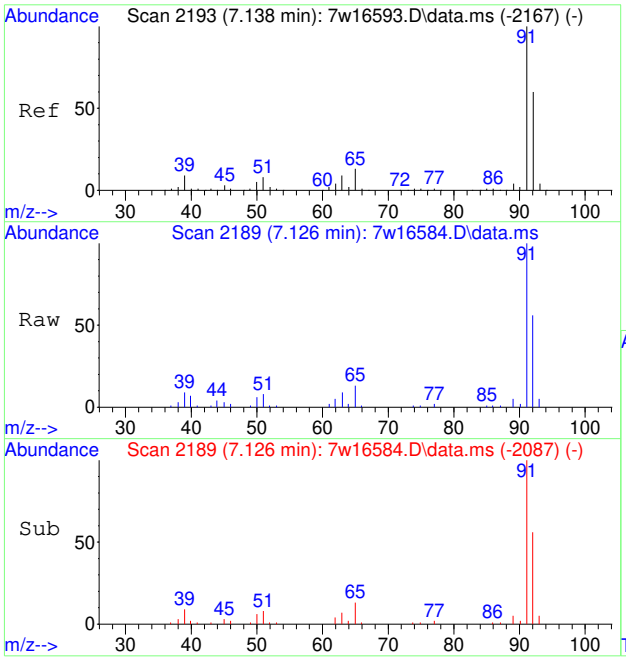


#65
CIS-1,3-DICHLOROPROPENE
Concen: 0.45 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 11946

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.0	40.8
39	54.5	38.5	71.5

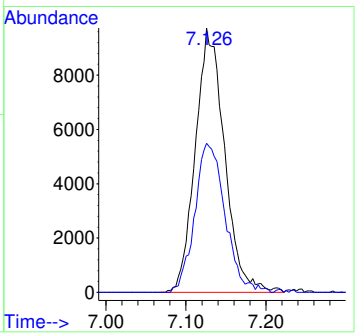


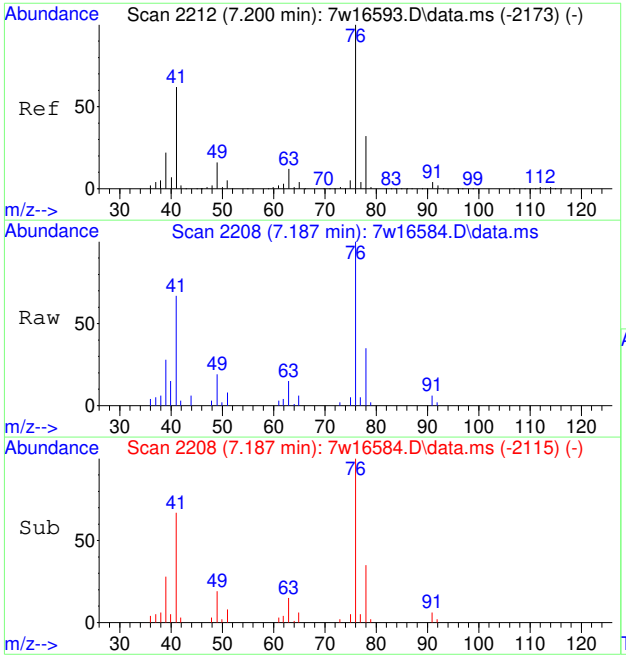


#66
TOLUENE
Concen: 0.51 PPBV
RT: 7.126 min Scan# 2189
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 24682

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.1	88.1

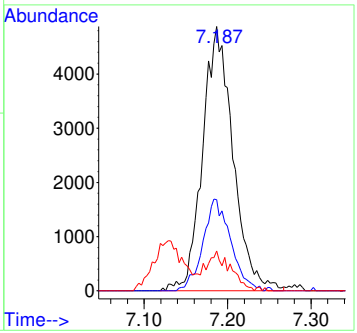


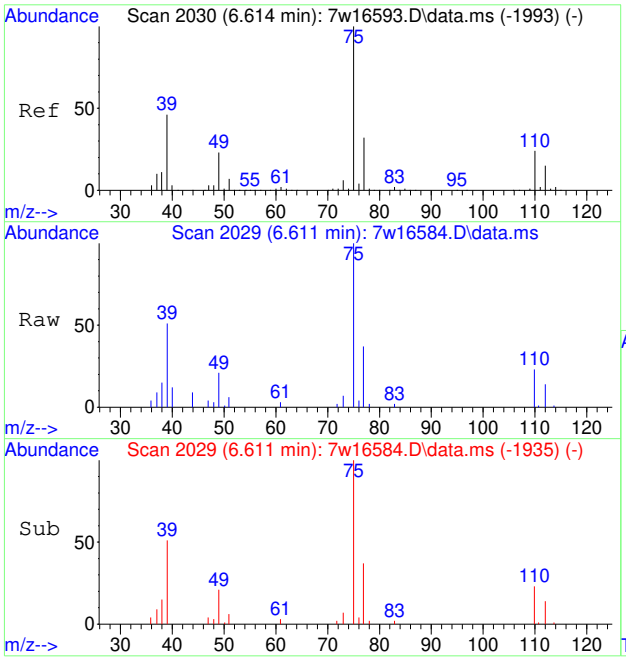


#67
1,3-DICHLOROPROPANE
Concen: 0.50 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 76 Resp: 12380

Ion	Ratio	Lower	Upper
76	100		
78	31.6	22.1	41.1
63	13.2	8.0	14.8

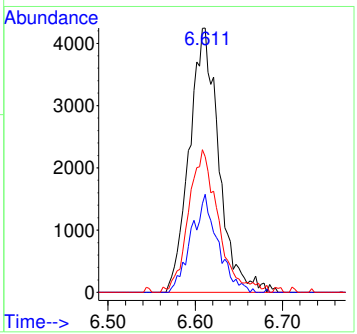


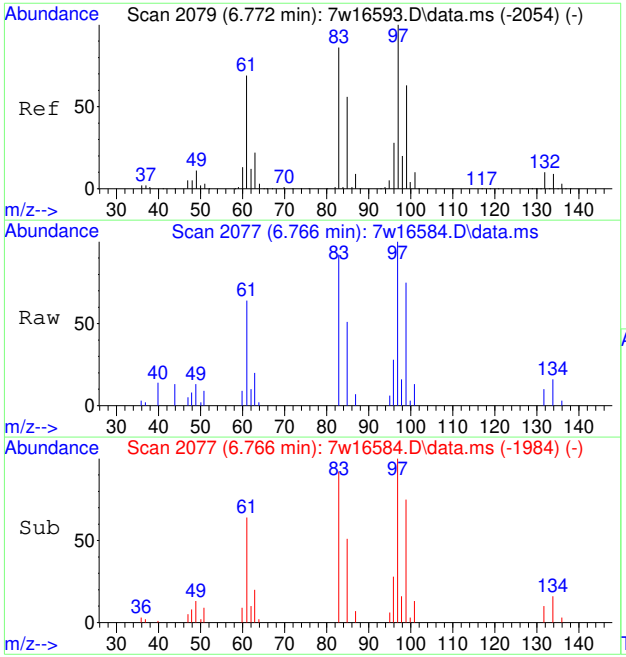


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 0.41 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 10011

Ion	Ratio	Lower	Upper
75	100		
77	33.6	22.5	41.7
39	55.1	37.2	69.0

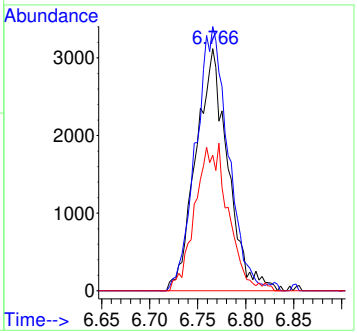


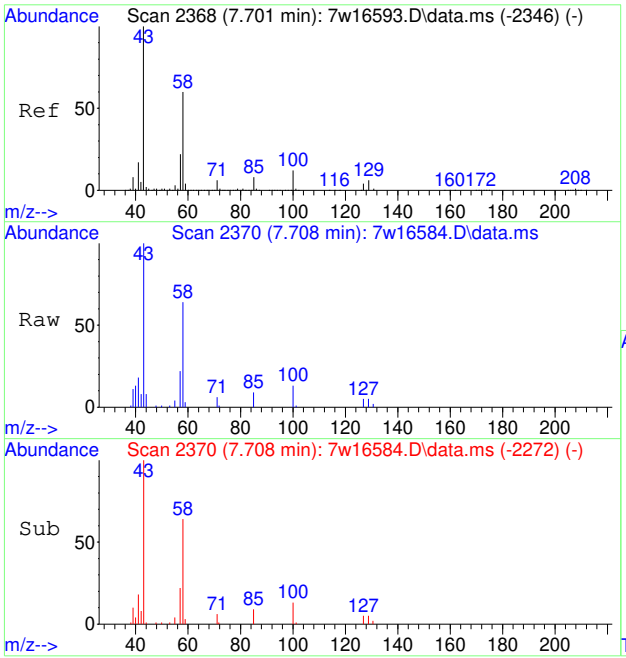


#69
1,1,2-TRICHLOROETHANE
Concen: 0.51 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 7248

Ion	Ratio	Lower	Upper
83	100		
97	111.0	86.7	160.9
85	62.6	45.5	84.5

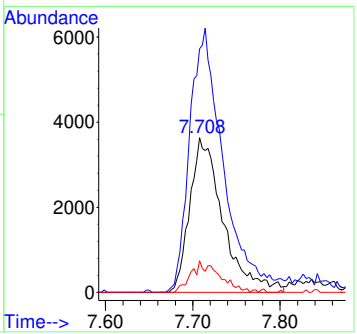


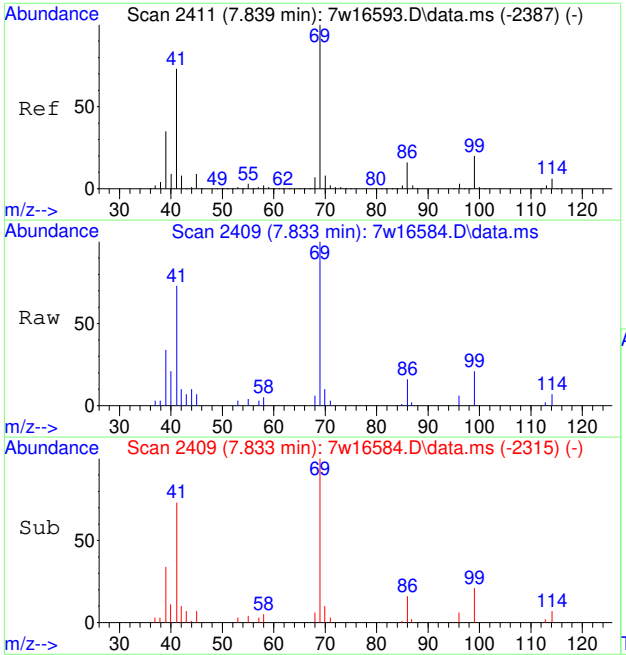


#70
2-HEXANONE
Concen: 0.47 PPBV
RT: 7.708 min Scan# 2370
Delta R.T. 0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 58 Resp: 9642

Ion	Ratio	Lower	Upper
58	100		
43	173.7	141.7	263.3
100	17.2	18.9	35.1#

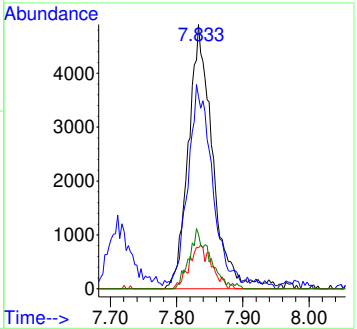


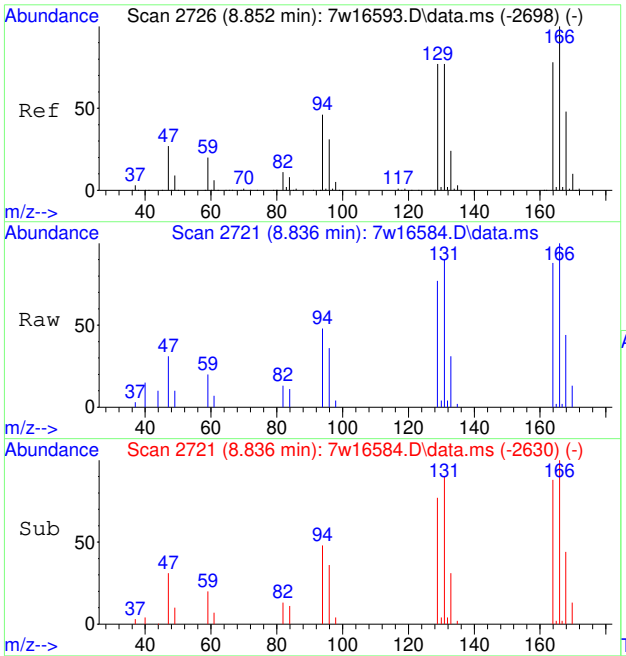


#71
ETHYL METHACRYLATE
Concen: 0.48 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 69 Resp: 12576

Ion	Ratio	Lower	Upper
69	100		
41	81.1	49.3	91.6
86	15.5	11.6	21.6
99	19.4	13.4	24.8

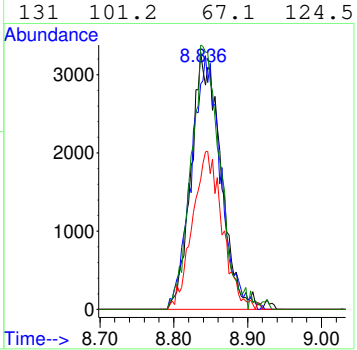


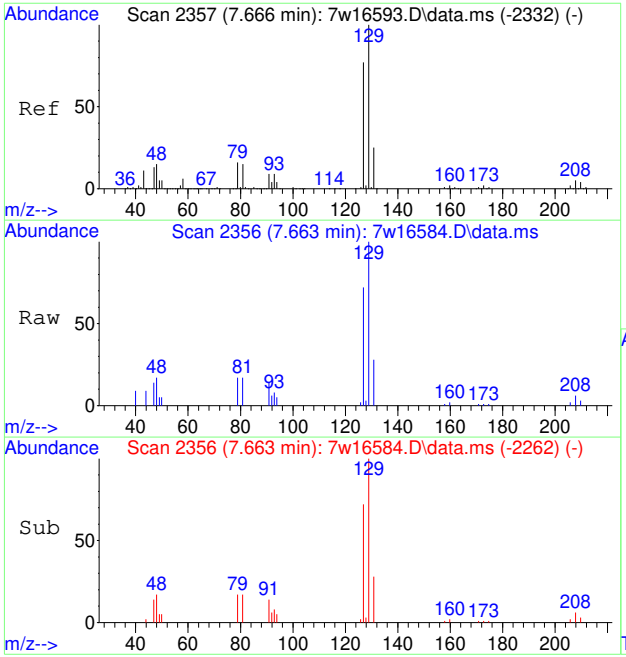


#72
TETRACHLOROETHENE
Concen: 0.52 PPBV
RT: 8.836 min Scan# 2721
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:164 Resp: 9191

Ion	Ratio	Lower	Upper
164	100		
129	97.9	69.7	129.5
168	61.9	43.4	80.6
131	101.2	67.1	124.5

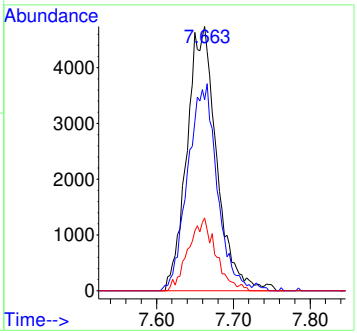


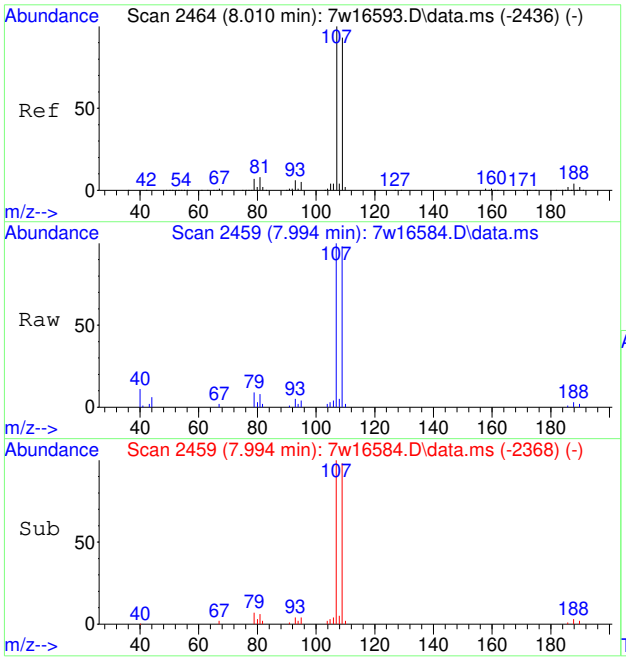


#73
DIBROMOCHLOROMETHANE
Concen: 0.43 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:129 Resp: 12752

Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.0	98.4
131	25.4	16.9	31.3

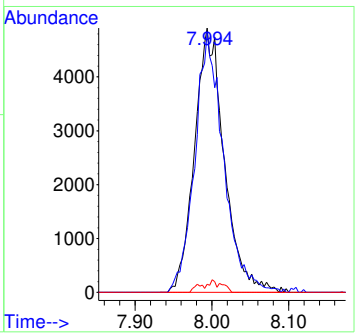


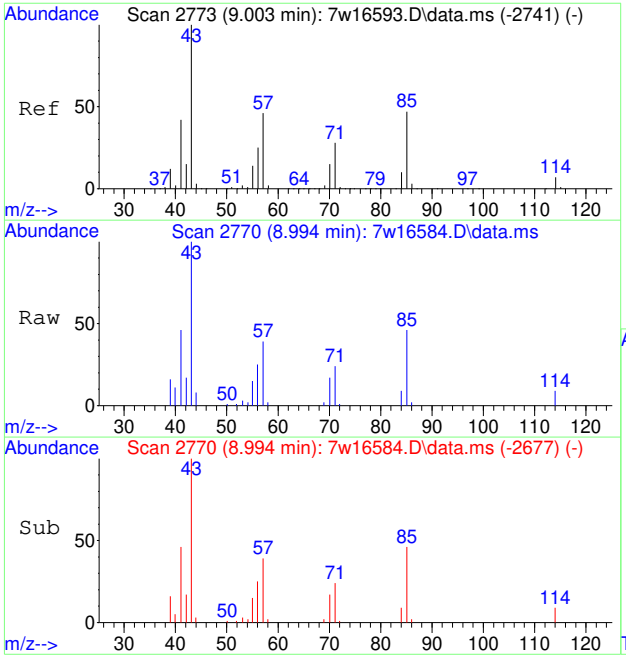


#74
1,2-DIBROMOETHANE
Concen: 0.52 PPBV
RT: 7.994 min Scan# 2459
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:107 Resp: 13213

Ion	Ratio	Lower	Upper
107	100		
109	95.1	65.7	122.1
188	3.1	2.4	4.4

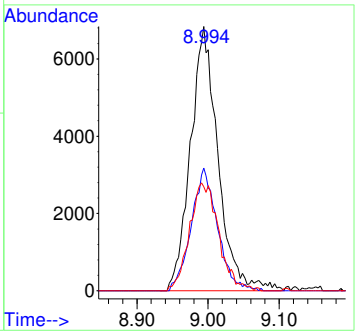


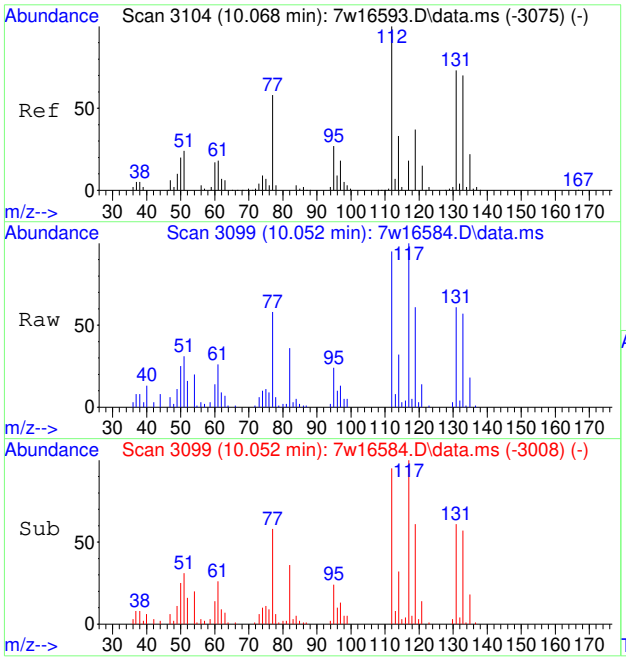


#75
OCTANE
Concen: 0.51 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 18440

Ion	Ratio	Lower	Upper
43	100		
85	44.3	36.5	67.9
57	43.3	27.6	51.2

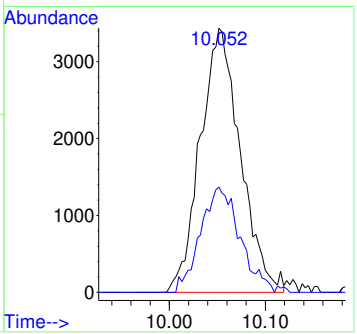


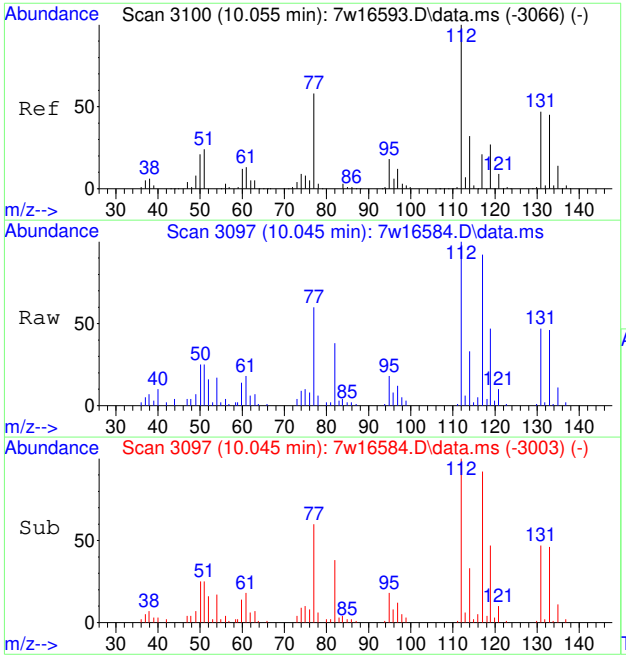


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 0.47 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:131 Resp: 9977

Ion	Ratio	Lower	Upper
131	100		
95	39.6	23.7	43.9

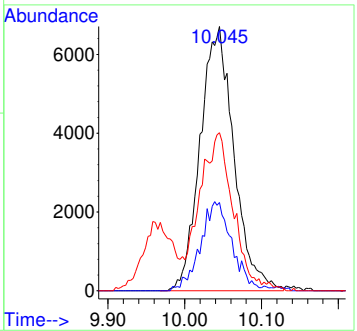


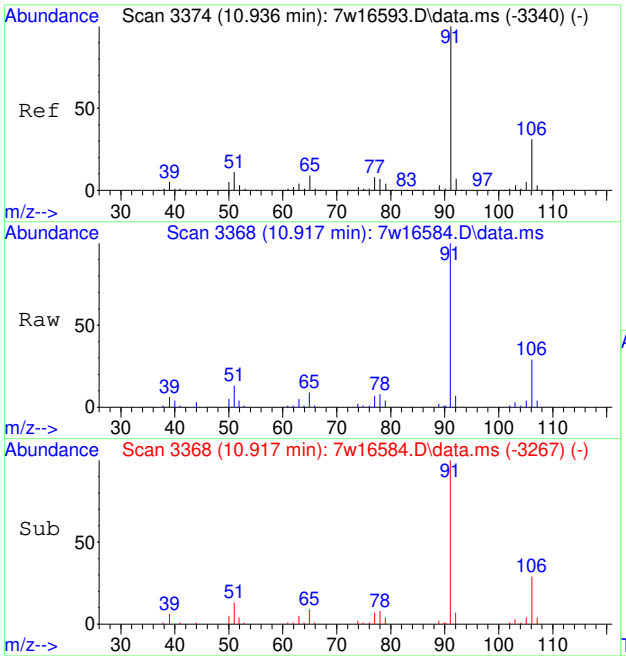


#78
CHLOROBENZENE
Concen: 0.52 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:112 Resp: 20418

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.7	34.4	63.8

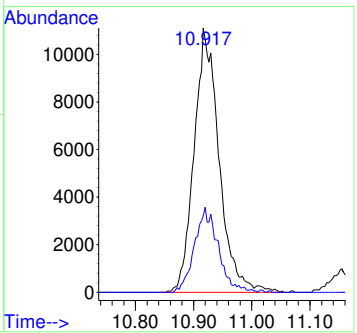


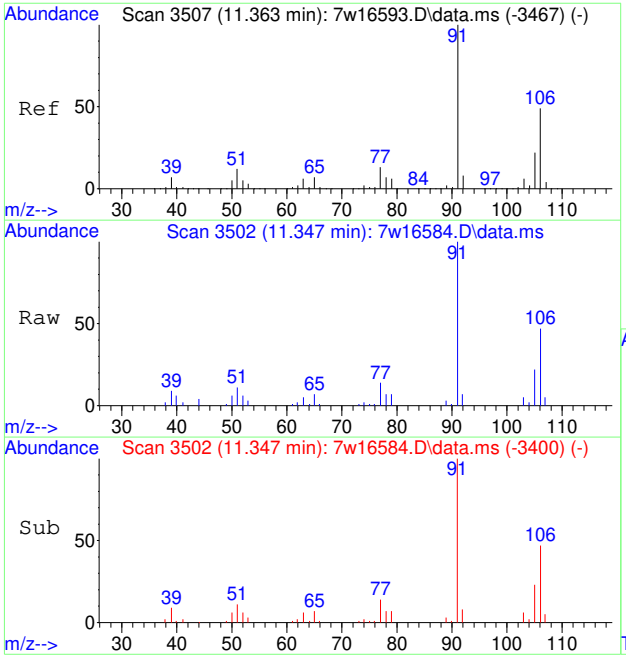


#79
ETHYLBENZENE
Concen: 0.52 PPBV
RT: 10.917 min Scan# 3368
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 33108

Ion	Ratio	Lower	Upper
91	100		
106	30.4	2.8	62.8

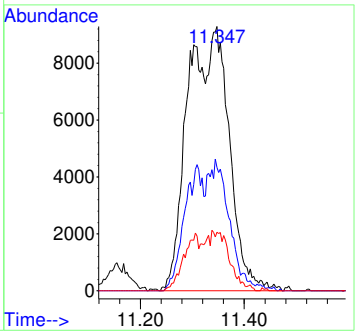


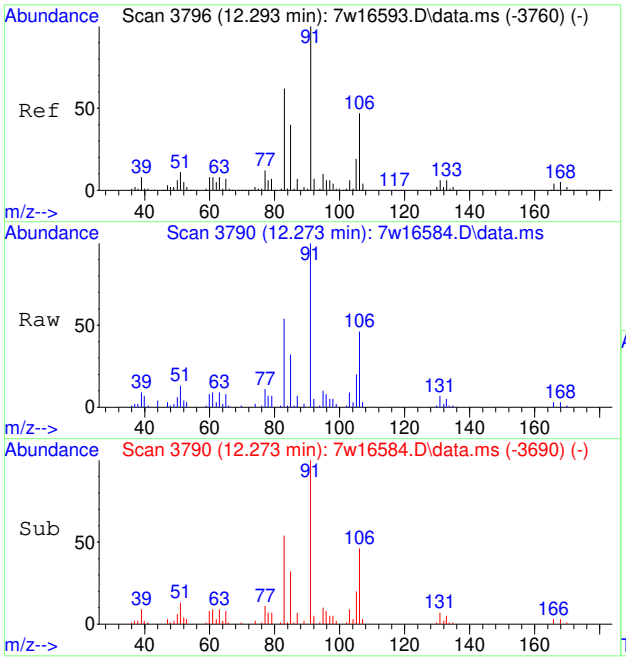


#80
M,P-XYLENE
Concen: 1.00 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 51511

Ion	Ratio	Lower	Upper
91	100		
106	27.3	0.0	58.7
105	12.4	0.0	43.2

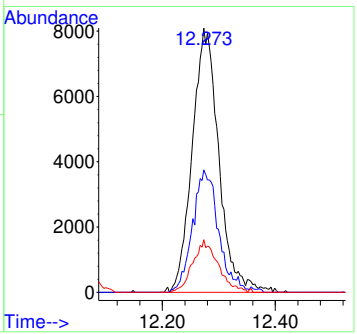


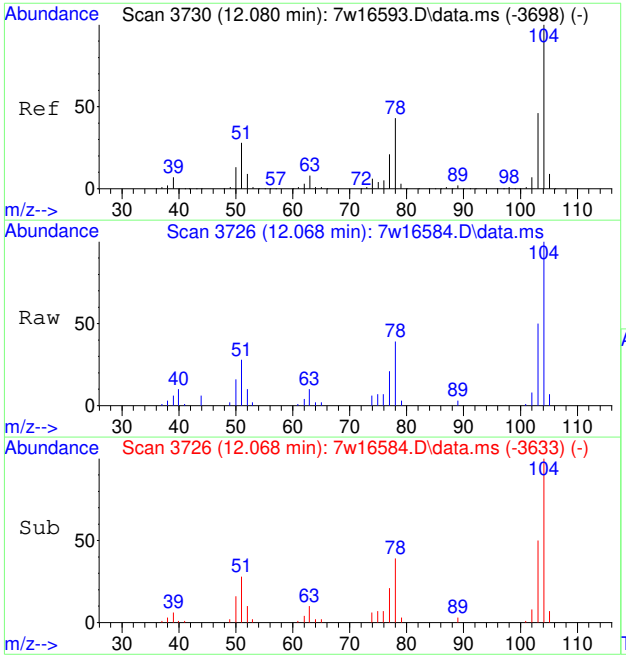


#81
O-XYLENE
Concen: 0.52 PPBV
RT: 12.273 min Scan# 3790
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 26468

Ion	Ratio	Lower	Upper
91	100		
106	46.3	34.1	63.3
105	19.9	14.6	27.2

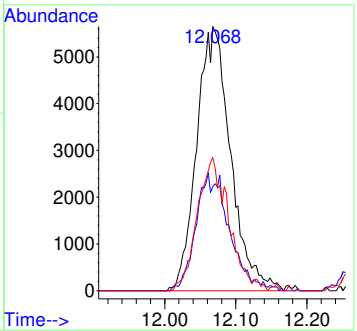


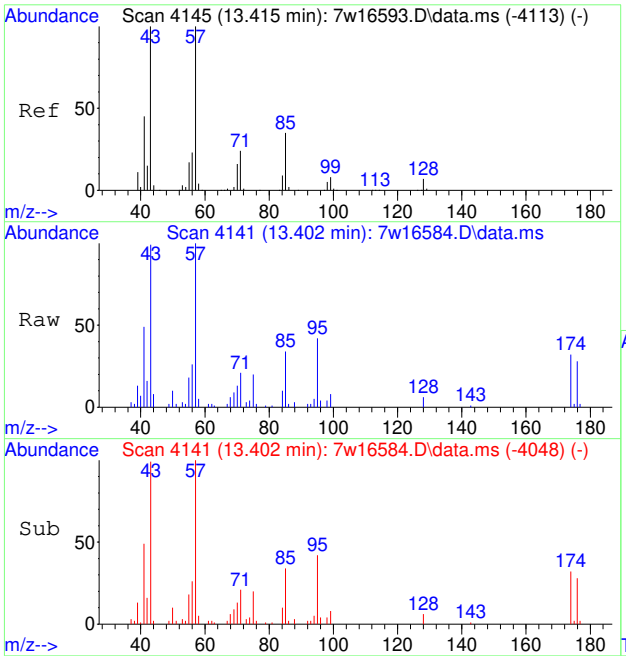


#82
STYRENE
Concen: 0.48 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:104 Resp: 18750

Ion	Ratio	Lower	Upper
104	100		
78	44.1	25.3	46.9
103	47.1	33.2	61.7

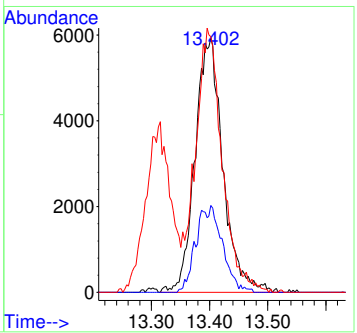


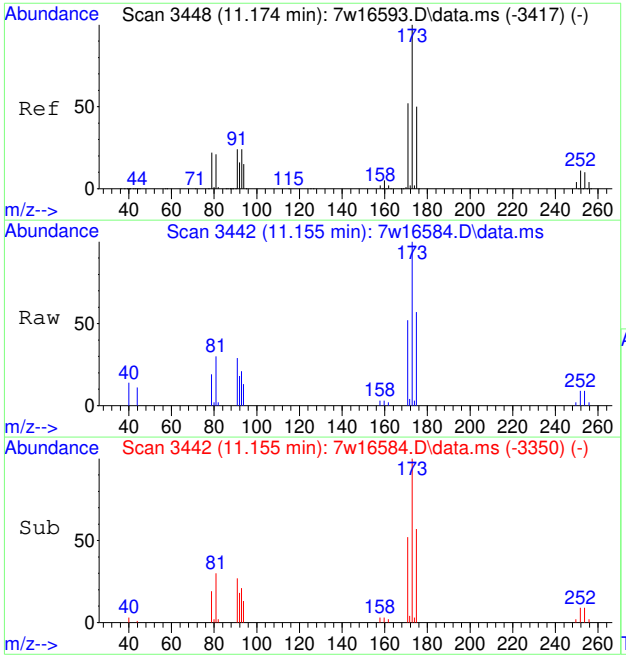


#83
NONANE
Concen: 0.51 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 43 Resp: 19802

Ion	Ratio	Lower	Upper
43	100		
85	32.5	27.6	51.2
57	100.6	56.4	104.7

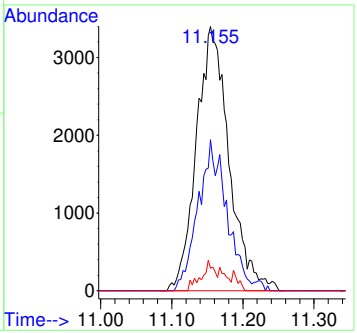


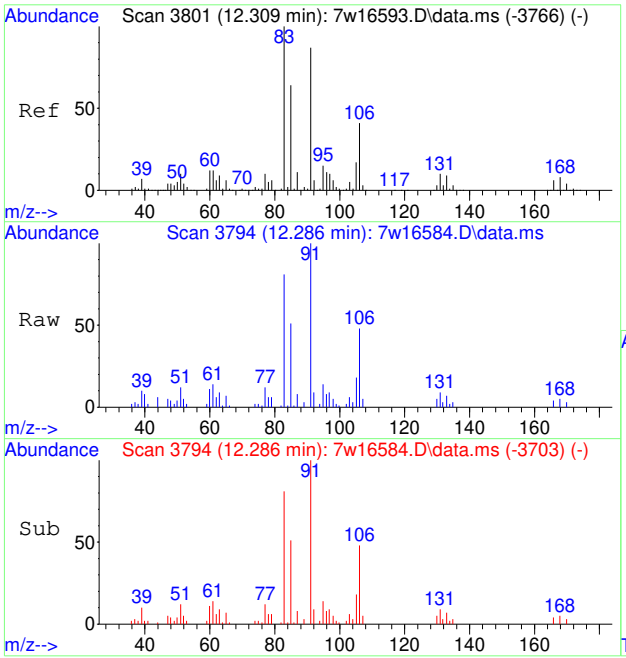


#84
BROMOFORM
Concen: 0.42 PPBV
RT: 11.155 min Scan# 3442
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:173 Resp: 10827

Ion	Ratio	Lower	Upper
173	100		
175	51.0	33.0	61.4
254	8.1	5.9	10.9

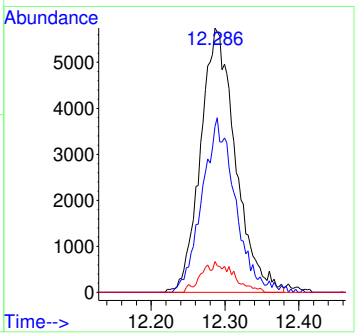


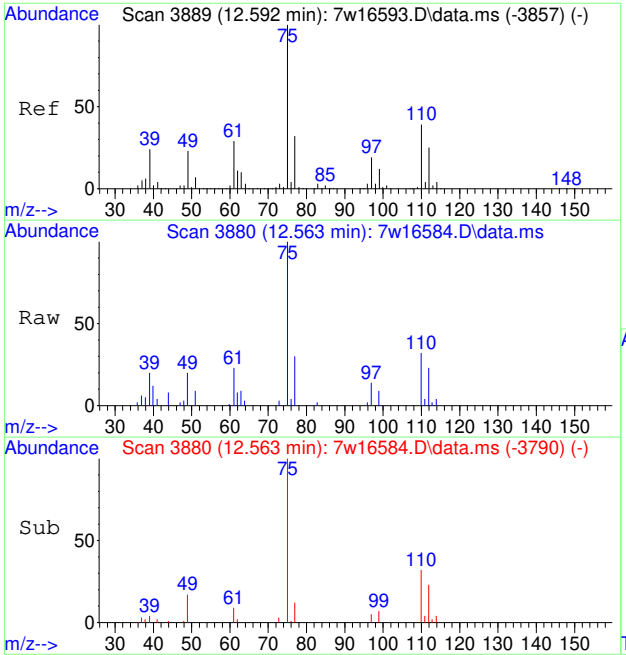


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 0.51 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 83 Resp: 18876

Ion	Ratio	Lower	Upper
83	100		
85	63.1	44.6	82.8
131	10.6	8.0	14.8

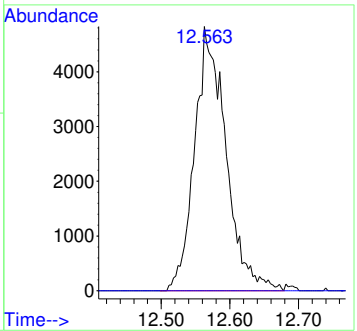


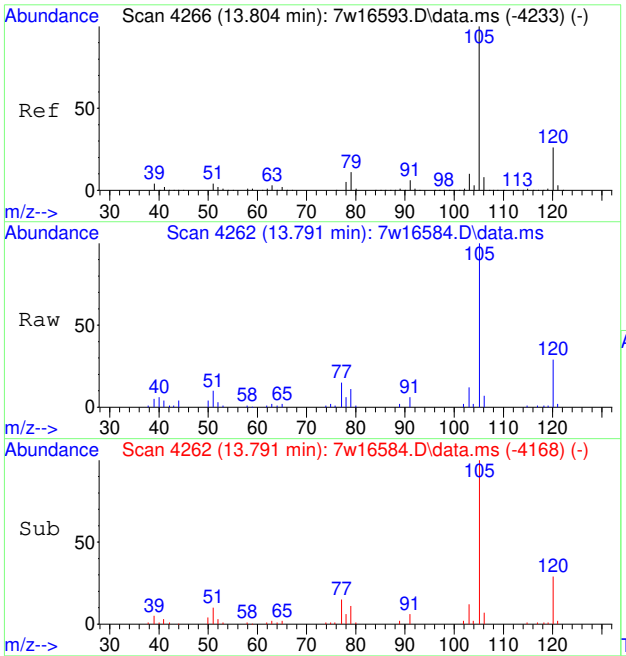


#86
1,2,3-TRICHLOROPROPANE
Concen: 0.53 PPBV
RT: 12.563 min Scan# 3880
Delta R.T. -0.009 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 75 Resp: 15262

Ion	Ratio	Lower	Upper
75	100		
100	0.0	0.4	0.8#

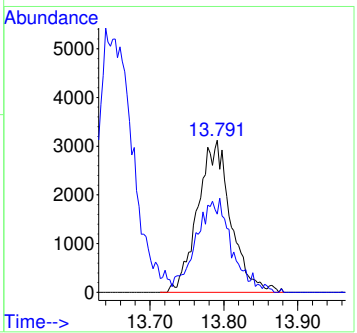


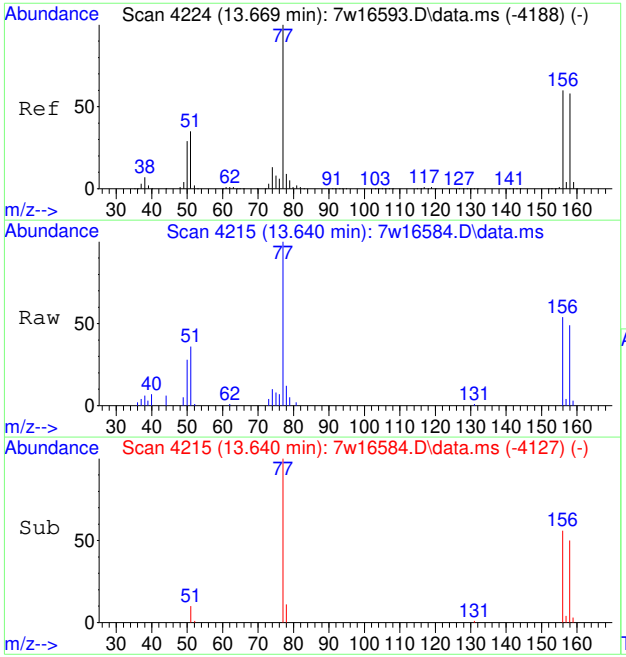


#88
ISOPROPYLBENZENE
Concen: 0.50 PPBV
RT: 13.791 min Scan# 4262
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9713

Ion	Ratio	Lower	Upper
120	100		
77	65.8	36.0	67.0

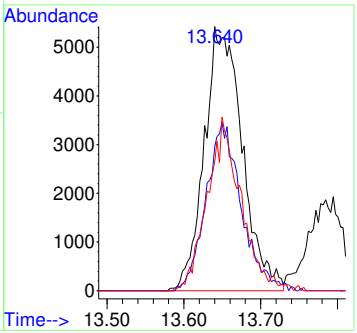


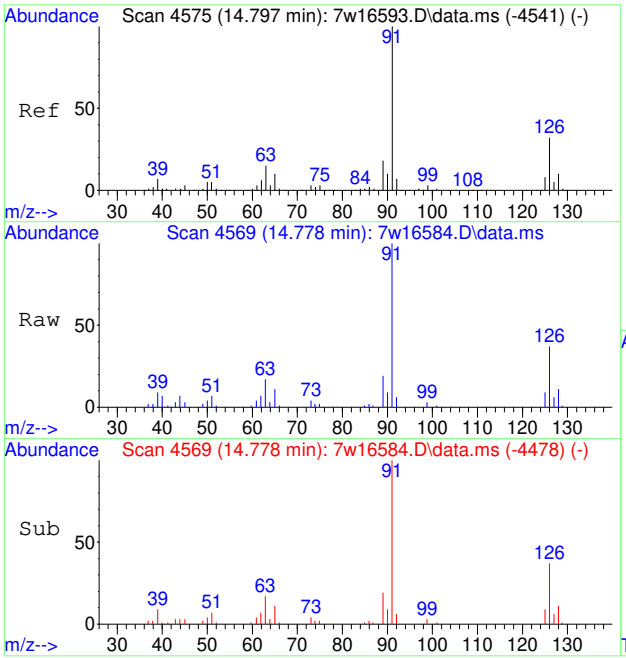


#89
BROMOBENZENE
Concen: 0.51 PPBV
RT: 13.640 min Scan# 4215
Delta R.T. -0.016 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 77 Resp: 18640

Ion	Ratio	Lower	Upper
77	100		
156	59.5	57.9	107.5
158	57.9	55.7	103.5

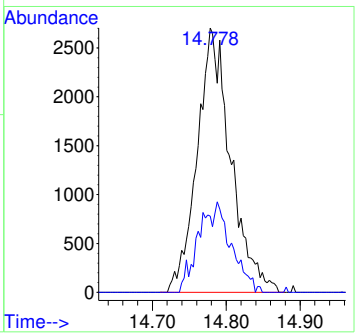


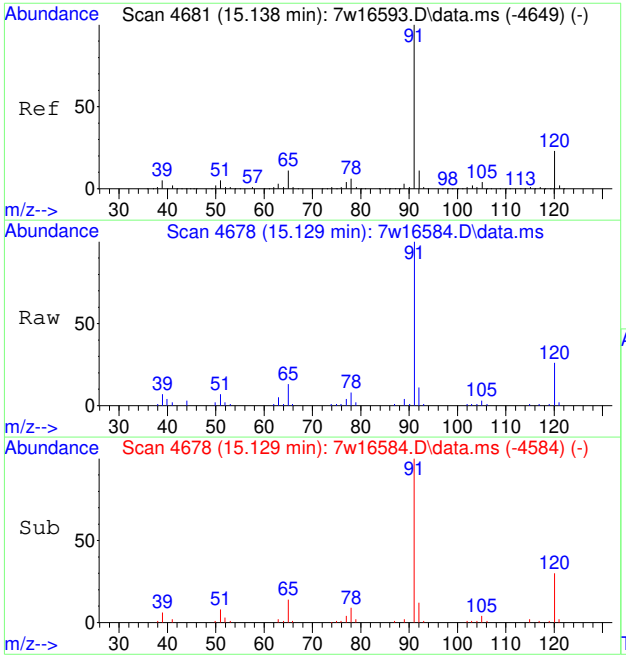


#90
2-CHLOROTOLUENE
Concen: 0.47 PPBV
RT: 14.778 min Scan# 4569
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:126 Resp: 8526

Ion	Ratio	Lower	Upper
126	100		
128	17.9	22.7	42.1#

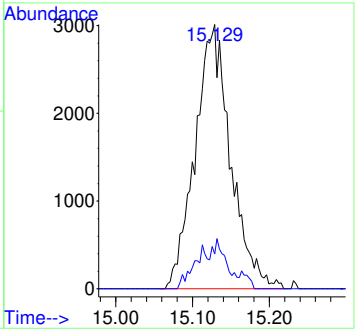


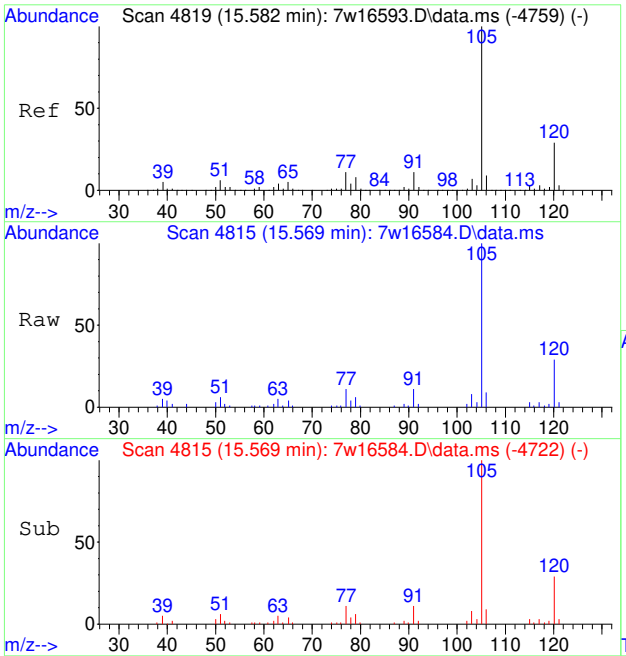


#91
N-PROPYLBENZENE
Concen: 0.46 PPBV
RT: 15.129 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:120 Resp: 9669

Ion	Ratio	Lower	Upper
120	100		
105	15.8	10.6	19.6

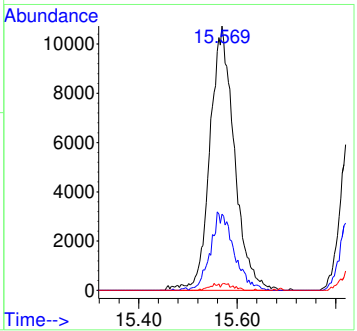


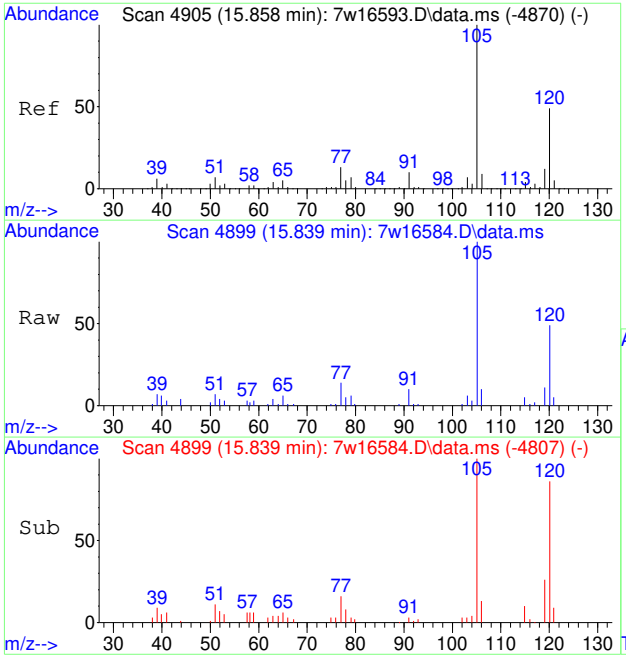


#92
4-ETHYLTOLUENE
Concen: 0.48 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 36862

Ion	Ratio	Lower	Upper
105	100		
120	0.0	21.8	40.4#
119	1.2	1.7	3.1#

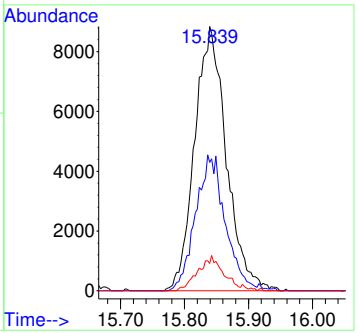


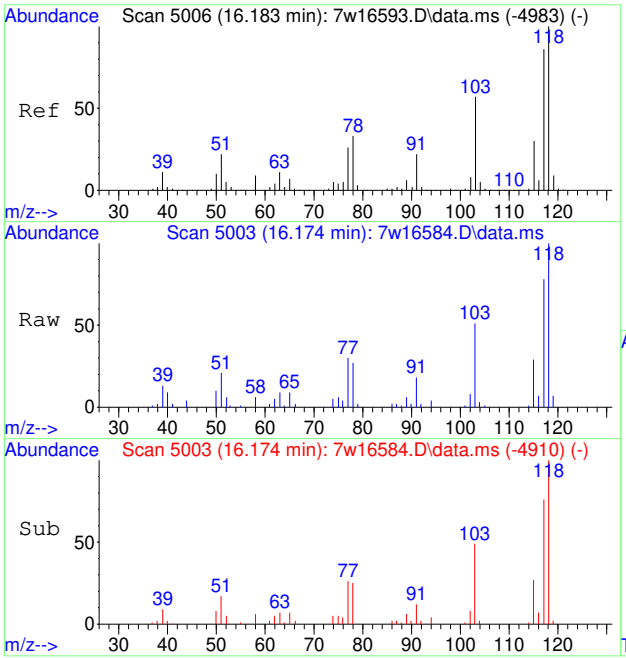


#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.48 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30468

Ion	Ratio	Lower	Upper
105	100		
120	48.5	37.2	69.2
91	11.0	7.5	13.9

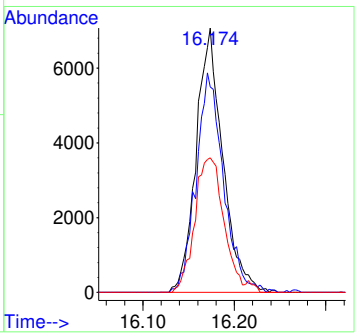


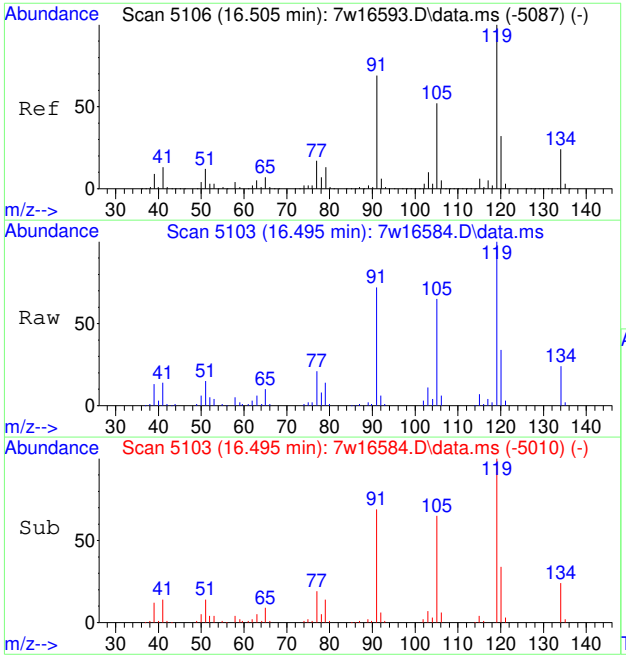


#94
ALPHA-METHYLSTYRENE
Concen: 0.44 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:118 Resp: 14307

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	56.7	36.2	67.2

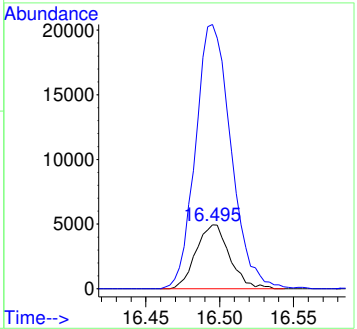


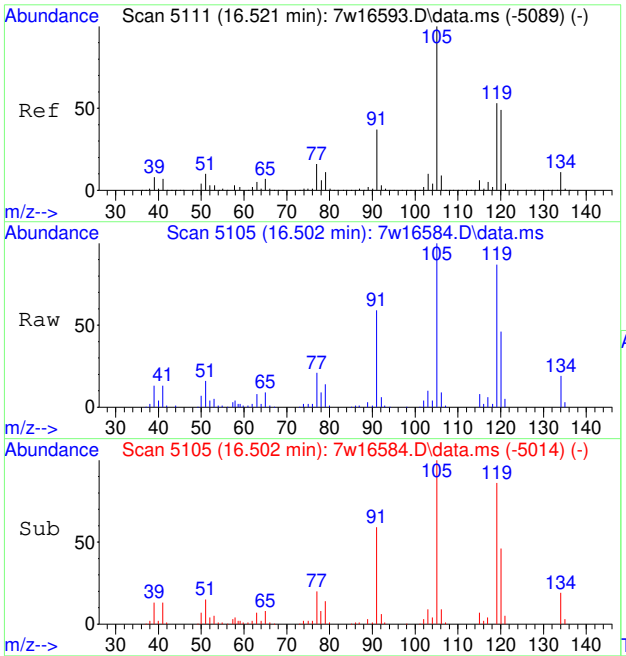


#95
TERT-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 7825

Ion	Ratio	Lower	Upper
134	100		
119	437.4	307.9	571.7

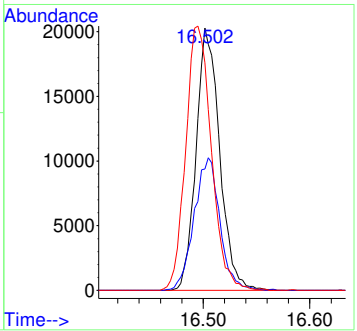


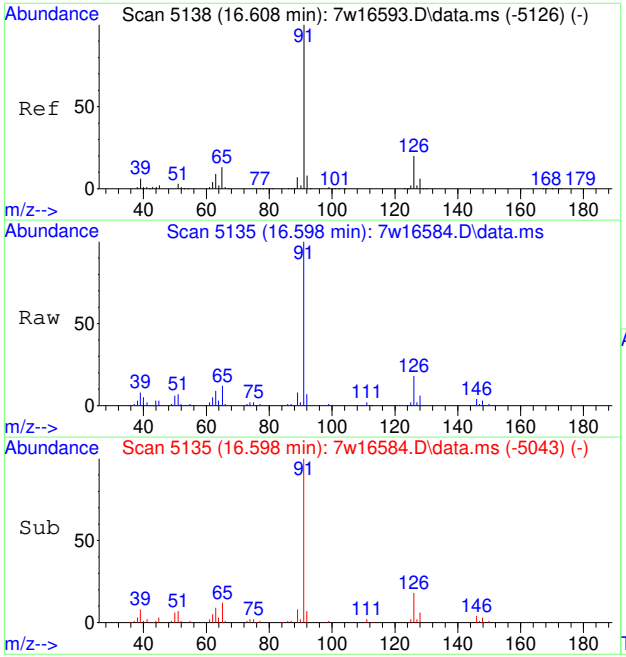


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.502 min Scan# 5105
Delta R.T. -0.006 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 31128

Ion	Ratio	Lower	Upper
105	100		
120	55.2	40.9	75.9
119	109.9	78.0	144.8

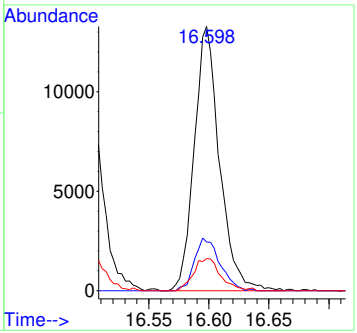


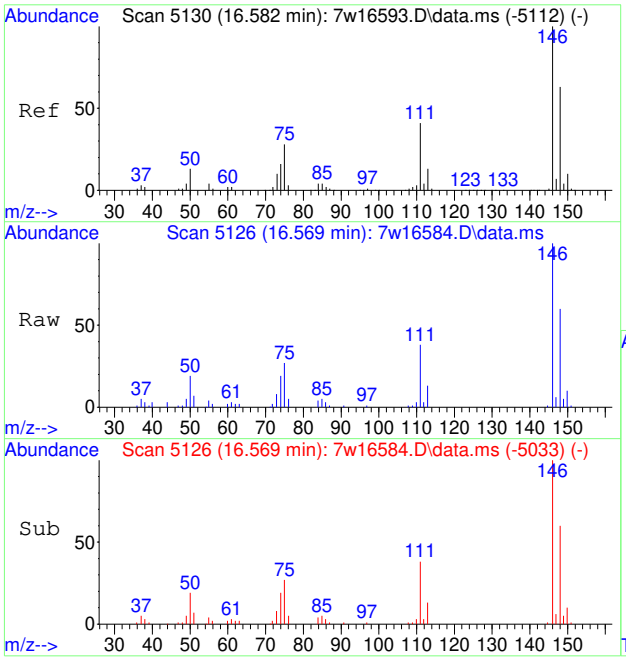


#97
BENZYL CHLORIDE
Concen: 0.35 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion: 91 Resp: 19459

Ion	Ratio	Lower	Upper
91	100		
126	20.1	17.2	32.0
65	13.2	7.3	13.7

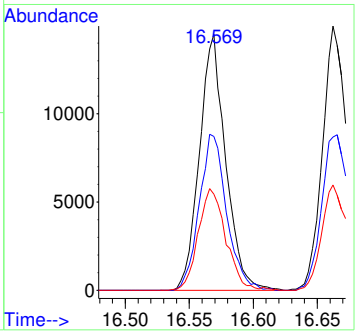


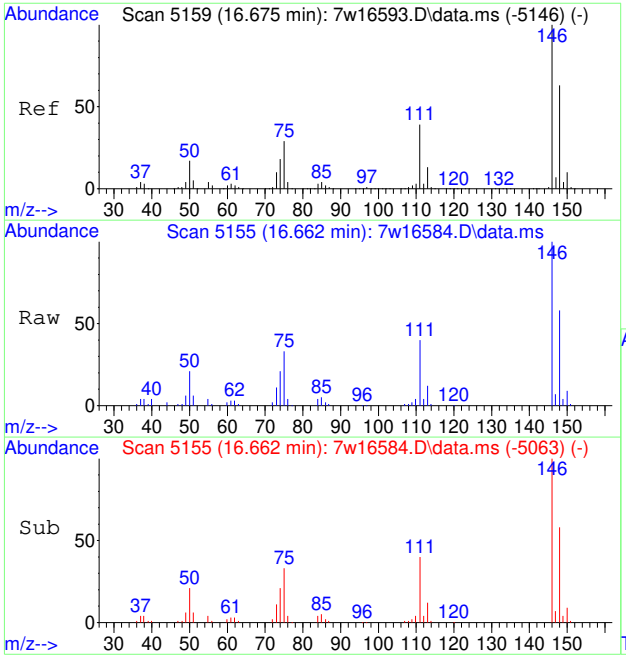


#98
M-DICHLOROBENZENE
Concen: 0.48 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20646

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	42.0	25.4	47.2

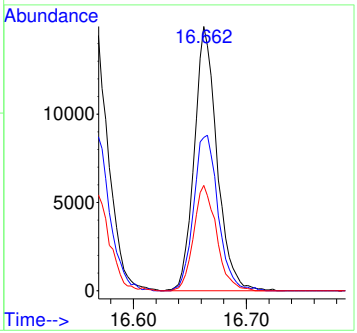


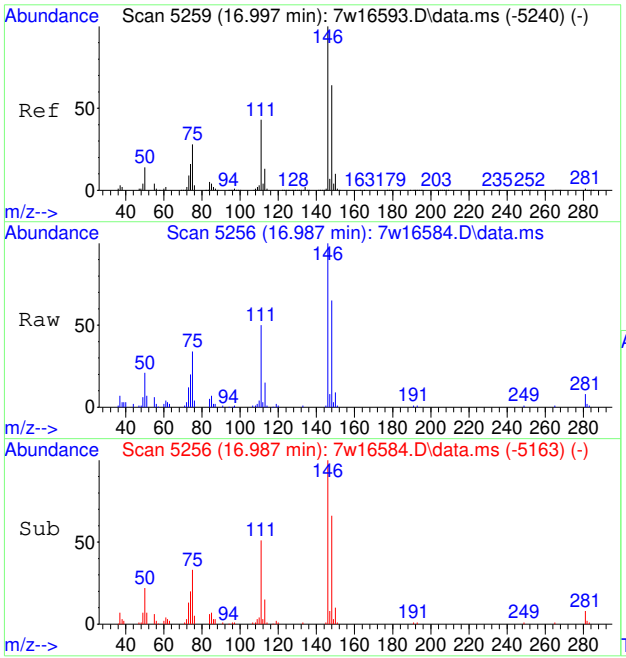


#99
P-DICHLOROBENZENE
Concen: 0.49 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 20868

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	40.2	24.8	46.1

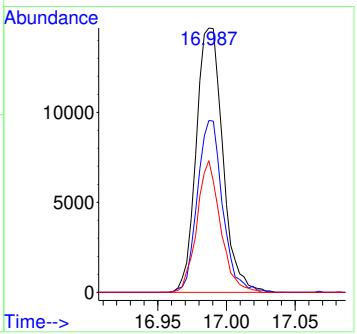


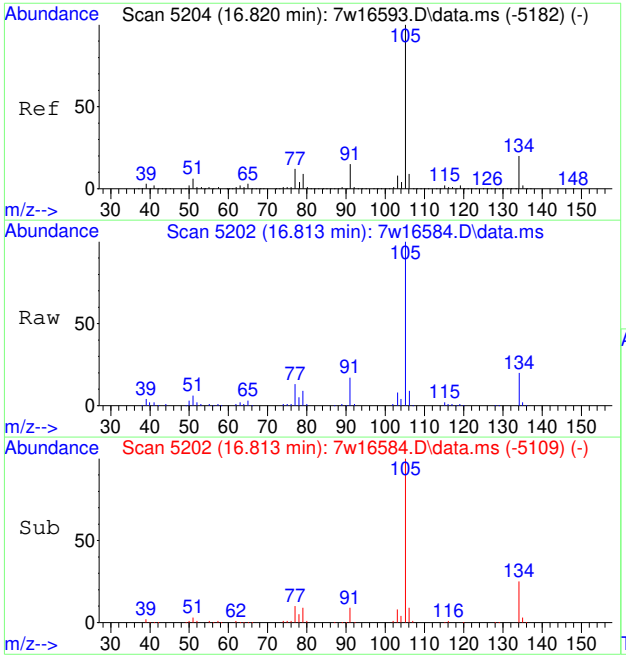


#100
O-DICHLOROBENZENE
Concen: 0.50 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:146 Resp: 19799

Ion	Ratio	Lower	Upper
146	100		
148	62.1	44.6	82.8
111	44.3	26.9	50.1

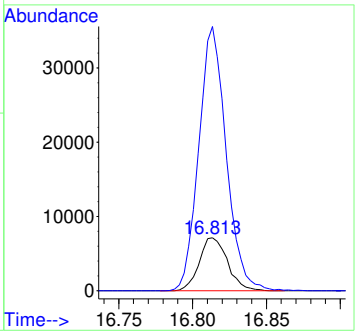


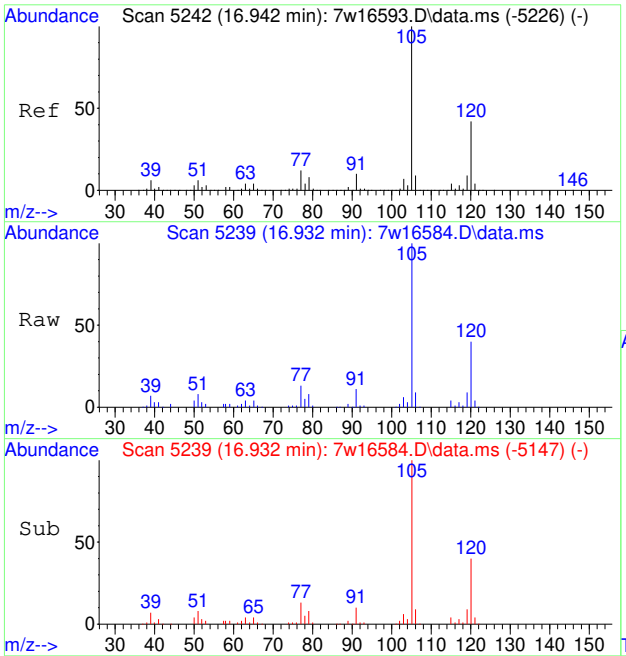


#101
SEC-BUTYLBENZENE
Concen: 0.51 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9482

Ion	Ratio	Lower	Upper
134	100		
105	484.9	314.4	584.0

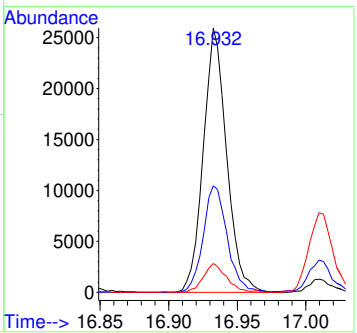


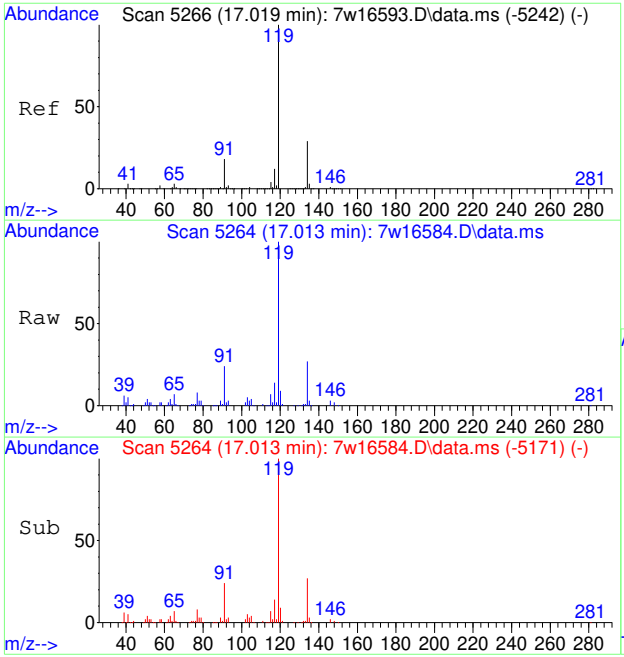


#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 16.932 min Scan# 5239
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:105 Resp: 30663

Ion	Ratio	Lower	Upper
105	100		
120	41.5	31.9	59.2
91	11.0	7.3	13.5

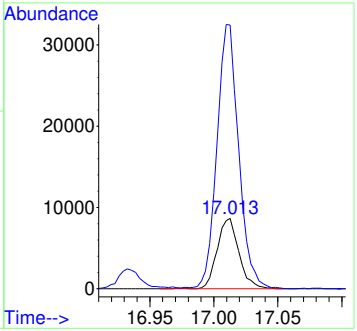


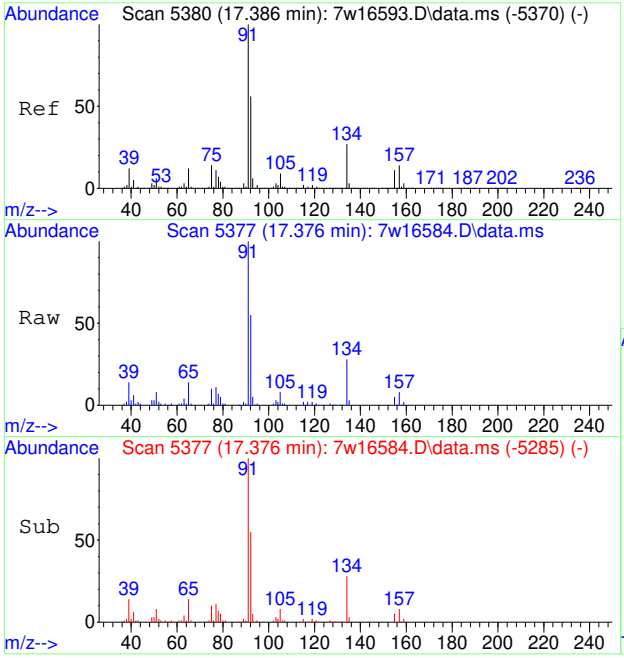


#103
P-ISOPROPYLTOLUENE
Concen: 0.49 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 10237

Ion	Ratio	Lower	Upper
134	100		
119	376.8	253.7	471.3

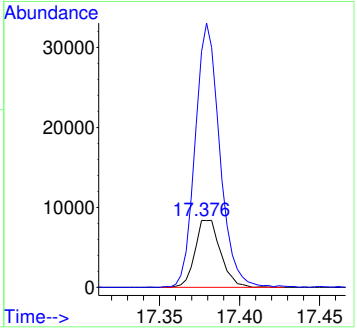


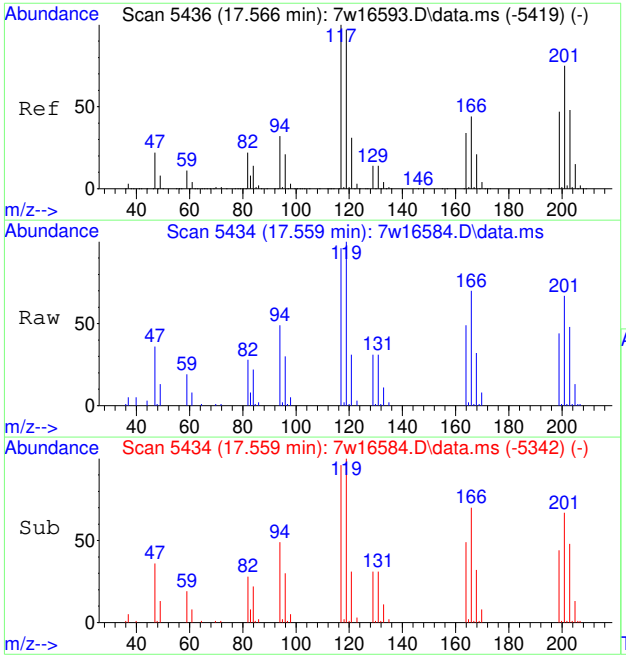


#104
N-BUTYLBENZENE
Concen: 0.47 PPBV
RT: 17.376 min Scan# 5377
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:134 Resp: 9347

Ion	Ratio	Lower	Upper
134	100		
91	380.4	231.1	429.1

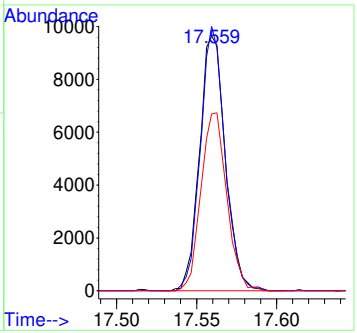


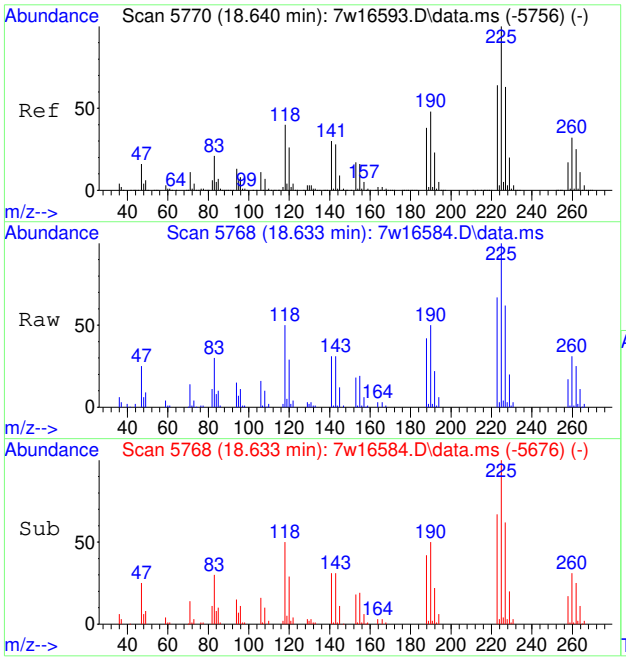


#105
HEXACHLOROETHANE
Concen: 0.44 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:117 Resp: 10816

Ion	Ratio	Lower	Upper
117	100		
119	98.3	68.3	126.9
201	69.8	45.9	85.3

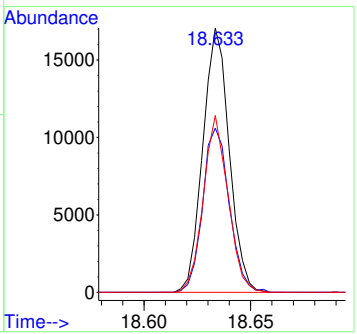


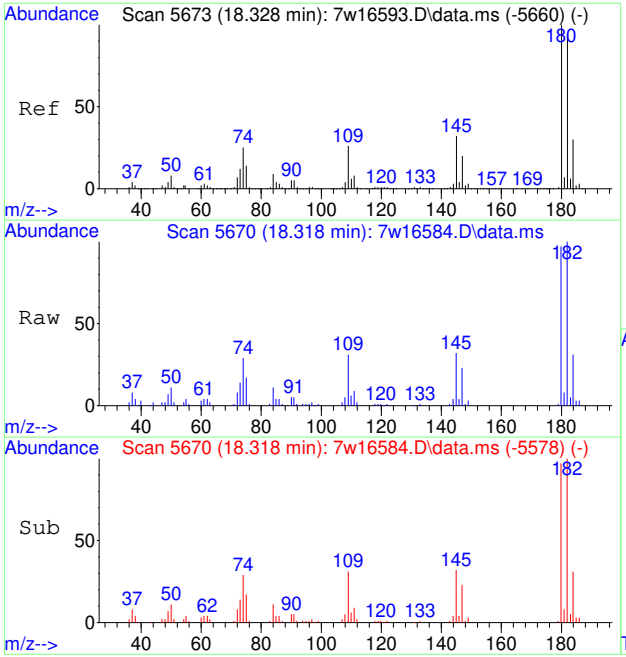


#106
HEXACHLOROBUTADIENE
Concen: 0.54 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:225 Resp: 14662

Ion	Ratio	Lower	Upper
225	100		
227	62.8	44.4	82.5
223	62.8	44.7	83.1

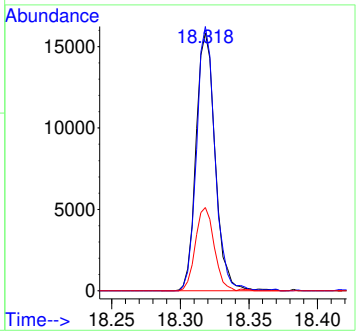


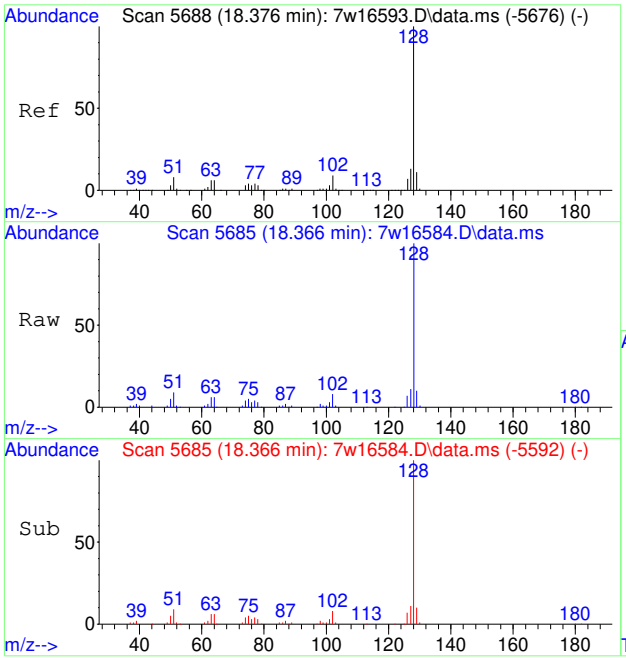


#107
1,2,4-TRICHLOROBENZENE
Concen: 0.44 PPBV
RT: 18.318 min Scan# 5670
Delta R.T. -0.003 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:180 Resp: 15355

Ion	Ratio	Lower	Upper
180	100		
182	98.7	66.8	124.0
145	32.0	23.1	42.9

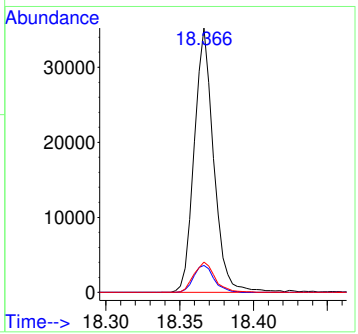


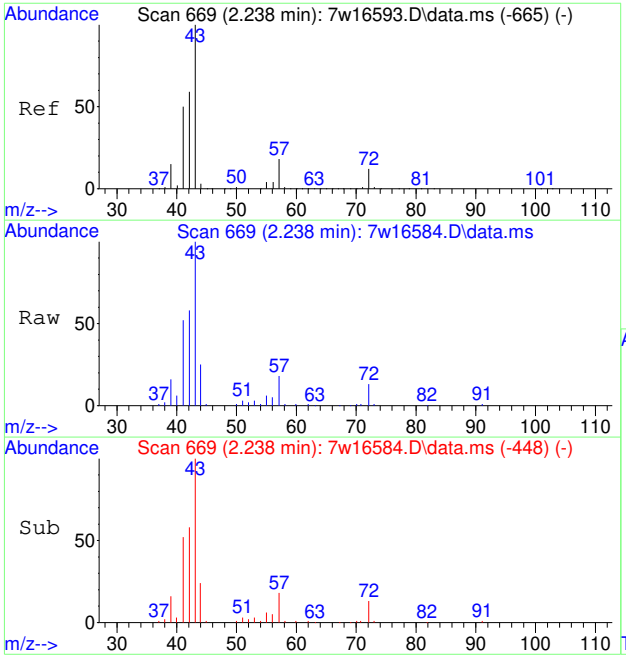


#108
NAPHTHALENE
Concen: 0.40 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:128 Resp: 32243

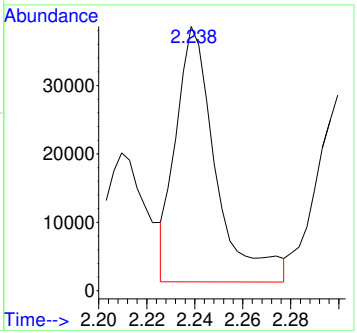
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.4	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 0.69 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16584.D
Acq: 7 Aug 2025 9:13 am

Tgt Ion:TIC Resp: 43130



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16584.D
Injection Time: 08/07/25 09:13

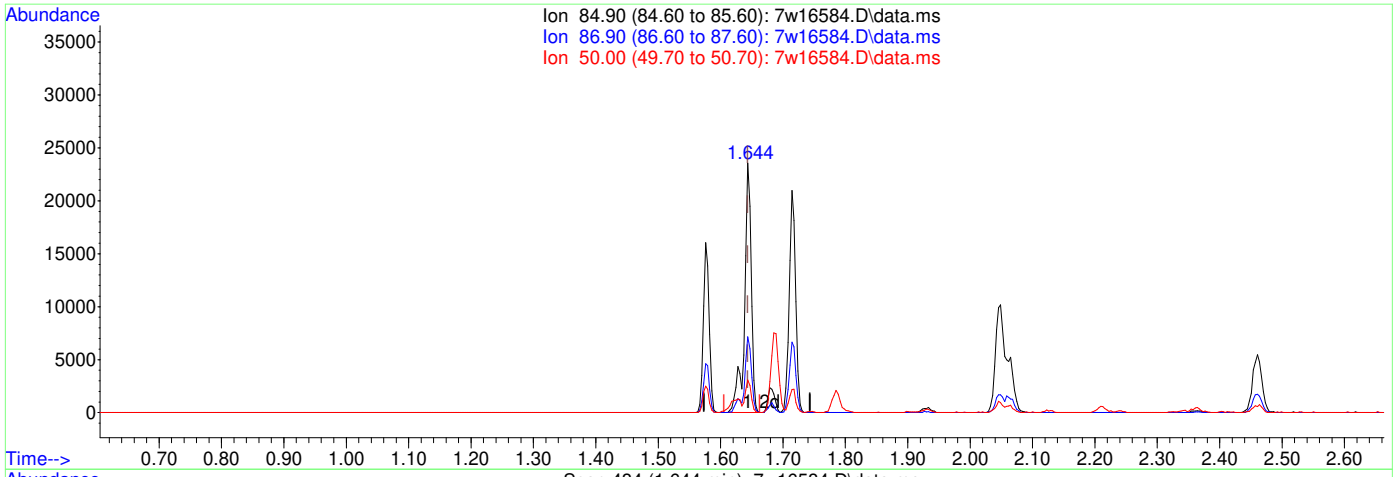
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

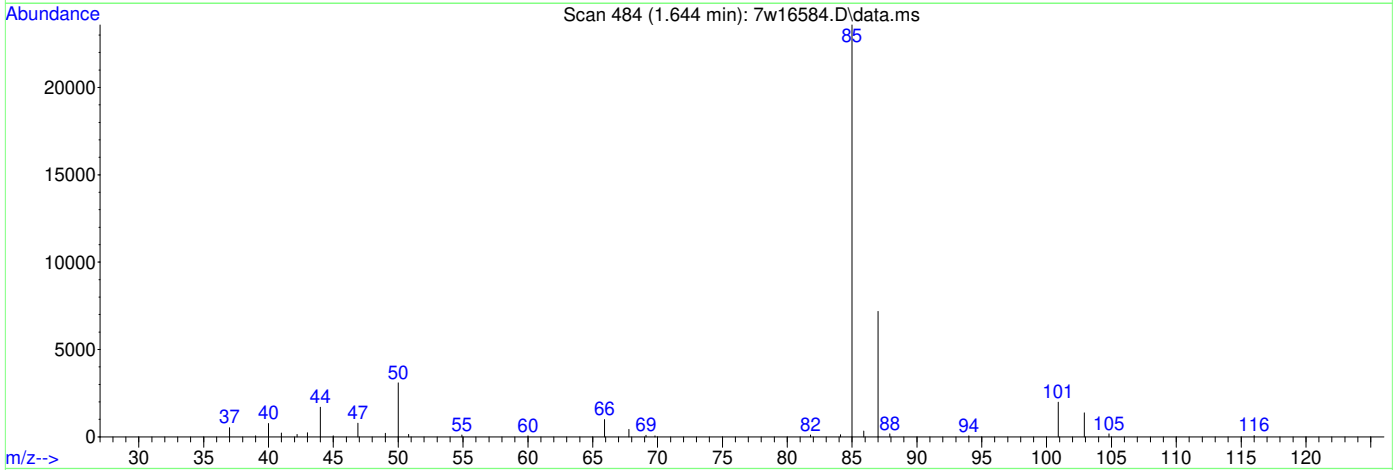
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.52PPBV

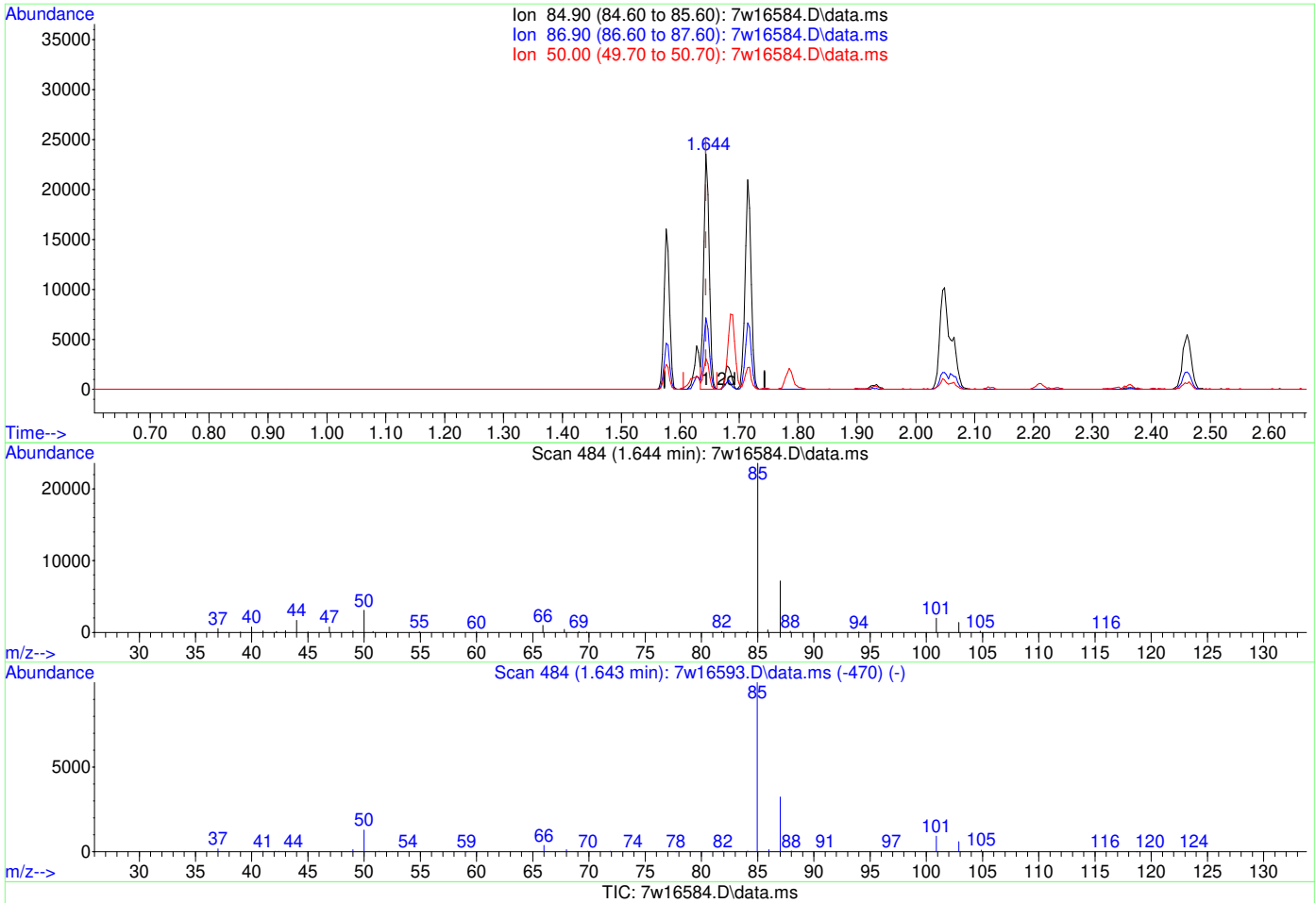
response 17704

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.09
50.00	17.30	20.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16584.D
Acq On : 7 Aug 2025 9:13 am
Operator : benk
Sample : ic577-0.5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:32:49 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16584.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 0.44PPBV m

response 14890

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.16
50.00	17.30	23.88#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110309	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	561645	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511167	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110309	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415987	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	71924	5.05	PPBV		88
3) FREON 152A	1.605	65	34756	5.11	PPBV		93
4) CHLORODIFLUOROMETHANE	1.618	67	16247	5.26	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.631	116	77653	5.13	PPBV		72
6) DICHLORODIFLUOROMETHANE	1.643	85	143733m	4.36	PPBV		
7) PROPYLENE	1.627	41	44998	5.15	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	131345	5.33	PPBV		99
9) FREON 114	1.714	85	147028	5.09	PPBV		83
10) CHLOROMETHANE	1.688	52	19944	5.36	PPBV		96
11) VINYL CHLORIDE	1.746	62	69360	5.02	PPBV		98
12) 1,3-BUTADIENE	1.785	54	53869	5.04	PPBV	#	74
13) N-BUTANE	1.801	43	95908	5.23	PPBV		98
14) BROMOMETHANE	1.859	94	52720	5.02	PPBV		97
15) CHLOROETHANE	1.904	64	35268	4.83	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	127414	4.88	PPBV		96
17) ACETONITRILE	1.994	41	54085	4.71	PPBV		97
18) ACROLEIN	2.032	56	30491	5.10	PPBV		97
19) FREON 123	2.049	83	138654	5.20	PPBV		97
20) FREON 123A	2.065	117	81977	5.24	PPBV	#	56
21) TRICHLOROFLUOROMETHANE	2.129	101	150765	4.96	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	131851	5.23	PPBV		89
23) ACETONE	2.071	58	34925	5.00	PPBV		67
24) PENTANE	2.241	42	67328	5.17	PPBV		89
25) IODOMETHANE	2.299	142	145418	5.22	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	59691	5.29	PPBV	#	61
27) CARBON DISULFIDE	2.463	76	169676	5.18	PPBV		94
28) ETHANOL	1.933	45	31099	4.82	PPBV		98
29) BROMOETHENE	2.004	106	53853	4.91	PPBV		95
30) ACRYLONITRILE	2.209	52	50954	5.27	PPBV		98
31) METHYLENE CHLORIDE	2.364	84	53489	5.00	PPBV	#	78
32) 3-CHLOROPROPENE	2.405	76	30822	5.04	PPBV		72
33) FREON 113	2.460	151	91200	5.19	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.685	96	62237	5.00	PPBV	#	64
35) TERTIARY BUTYL ALCOHOL	2.338	59	146023	4.75	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	180915	5.12	PPBV		97
37) TETRAHYDROFURAN	3.470	72	27419	4.64	PPBV		76
38) HEXANE	3.241	57	121135	5.18	PPBV		82
39) VINYL ACETATE	2.827	86	16334	4.75	PPBV		70
40) 1,1-DICHLOROETHANE	2.759	63	121863	4.97	PPBV		97
41) METHYL ETHYL KETONE	2.923	72	31986	5.07	PPBV	#	83
42) CIS-1,2-DICHLOROETHENE	3.113	96	64888	5.01	PPBV	#	74
43) DIISOPROPYL ETHER	3.245	59	35230	5.24	PPBV		90
44) ETHYL ACETATE	3.248	61	23700	4.98	PPBV		68
45) METHYL ACRYLATE	3.235	55	147700	5.10	PPBV	#	98
46) CHLOROFORM	3.261	83	130788	5.10	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	139904	5.24	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	135968	5.09	PPBV		95
49) CARBON TETRACHLORIDE	4.235	117	140153	4.91	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROETHANE	3.659	62	100577	5.00	PPBV		98
51) BENZENE	4.129	78	190147	5.07	PPBV		90
53) CYCLOHEXANE	4.335	84	86740	5.03	PPBV	#	69
54) 2,3-DIMETHYLPENTANE	4.585	71	44676	5.09	PPBV		68
55) TRICHLOROETHENE	5.013	95	87453	4.76	PPBV		86
56) 1,2-DICHLOROPROPANE	4.782	63	79932	4.94	PPBV		92
57) DIBROMOMETHANE	4.740	174	74130	4.94	PPBV		91
58) ETHYL ACRYLATE	4.901	55	184653	5.03	PPBV	#	96
59) BROMODICHLOROMETHANE	4.958	83	145254	4.78	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.103	57	376202	4.91	PPBV	#	95
61) 1,4-DIOXANE	5.029	88	43182	4.76	PPBV	#	83
62) HEPTANE	5.418	43	129447	5.06	PPBV		90
63) METHYL METHACRYLATE	5.315	69	72765	4.95	PPBV		88
64) METHYL ISOBUTYL KETONE	6.039	58	73624	4.88	PPBV		79
65) CIS-1,3-DICHLOROPROPENE	5.939	75	122774	4.78	PPBV		97
66) TOLUENE	7.129	91	237199	5.09	PPBV		98
67) 1,3-DICHLOROPROPANE	7.183	76	121971	5.06	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	6.605	75	107017	4.46	PPBV		97
69) 1,1,2-TRICHLOROETHANE	6.762	83	68995	5.00	PPBV		96
70) 2-HEXANONE	7.695	58	99491	5.01	PPBV	#	79
71) ETHYL METHACRYLATE	7.833	69	125849	4.97	PPBV		95
72) TETRACHLOROETHENE	8.846	164	87888	5.13	PPBV		97
73) DIBROMOCHLOROMETHANE	7.659	129	139976	4.88	PPBV		98
74) 1,2-DIBROMOETHANE	7.997	107	130464	5.30	PPBV		99
75) OCTANE	8.997	43	180997	5.16	PPBV		91
77) 1,1,1,2-TETRACHLOROETHANE	10.055	131	104080	5.17	PPBV		91
78) CHLOROBENZENE	10.042	112	194976	5.29	PPBV		89
79) ETHYLBENZENE	10.920	91	322003	5.30	PPBV		97
80) M,P-XYLENE	11.350	91	506054	10.38	PPBV		99
81) O-XYLENE	12.280	91	257748	5.40	PPBV		95
82) STYRENE	12.067	104	194546	5.23	PPBV		94
83) NONANE	13.402	43	192916	5.27	PPBV		83
84) BROMOFORM	11.158	173	119167	4.90	PPBV		94
85) 1,1,2,2-TETRACHLOROETHANE	12.293	83	186265	5.35	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	12.572	75	146270	5.34	PPBV		100
88) ISOPROPYLBENZENE	13.788	120	96509	5.28	PPBV		85
89) BROMOBENZENE	13.646	77	183496	5.30	PPBV		75
90) 2-CHLOROTOLUENE	14.784	126	86951	5.02	PPBV		100
91) N-PROPYLBENZENE	15.128	120	101472	5.12	PPBV		96
92) 4-ETHYLTOLUENE	15.569	105	373811	5.20	PPBV		97
93) 1,3,5-TRIMETHYLBENZENE	15.839	105	312677	5.22	PPBV		94
94) ALPHA-METHYLSTYRENE	16.173	118	154689	5.06	PPBV		96
95) TERT-BUTYLBENZENE	16.498	134	77024	5.33	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.505	105	320531	5.29	PPBV		95
97) BENZYL CHLORIDE	16.598	91	250636	4.80	PPBV		92
98) M-DICHLOROBENZENE	16.569	146	206691	5.11	PPBV		96
99) P-DICHLOROBENZENE	16.662	146	210041	5.27	PPBV		97
100) O-DICHLOROBENZENE	16.987	146	196281	5.24	PPBV		97
101) SEC-BUTYLBENZENE	16.813	134	94529	5.43	PPBV		84
102) 1,2,3-TRIMETHYLBENZENE	16.935	105	310890	5.23	PPBV		95
103) P-ISOPROPYLTOLUENE	17.009	134	102620	5.24	PPBV		93
104) N-BUTYLBENZENE	17.379	134	99471	5.28	PPBV		79
105) HEXACHLOROETHANE	17.559	117	121985	5.22	PPBV		97
106) HEXACHLOROBUTADIENE	18.630	225	144324	5.62	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.315	180	179655	5.43	PPBV		100
108) NAPHTHALENE	18.363	128	413175	5.36	PPBV		100
110) TVHC as equiv Pentane	2.238	TIC	315100	5.18	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

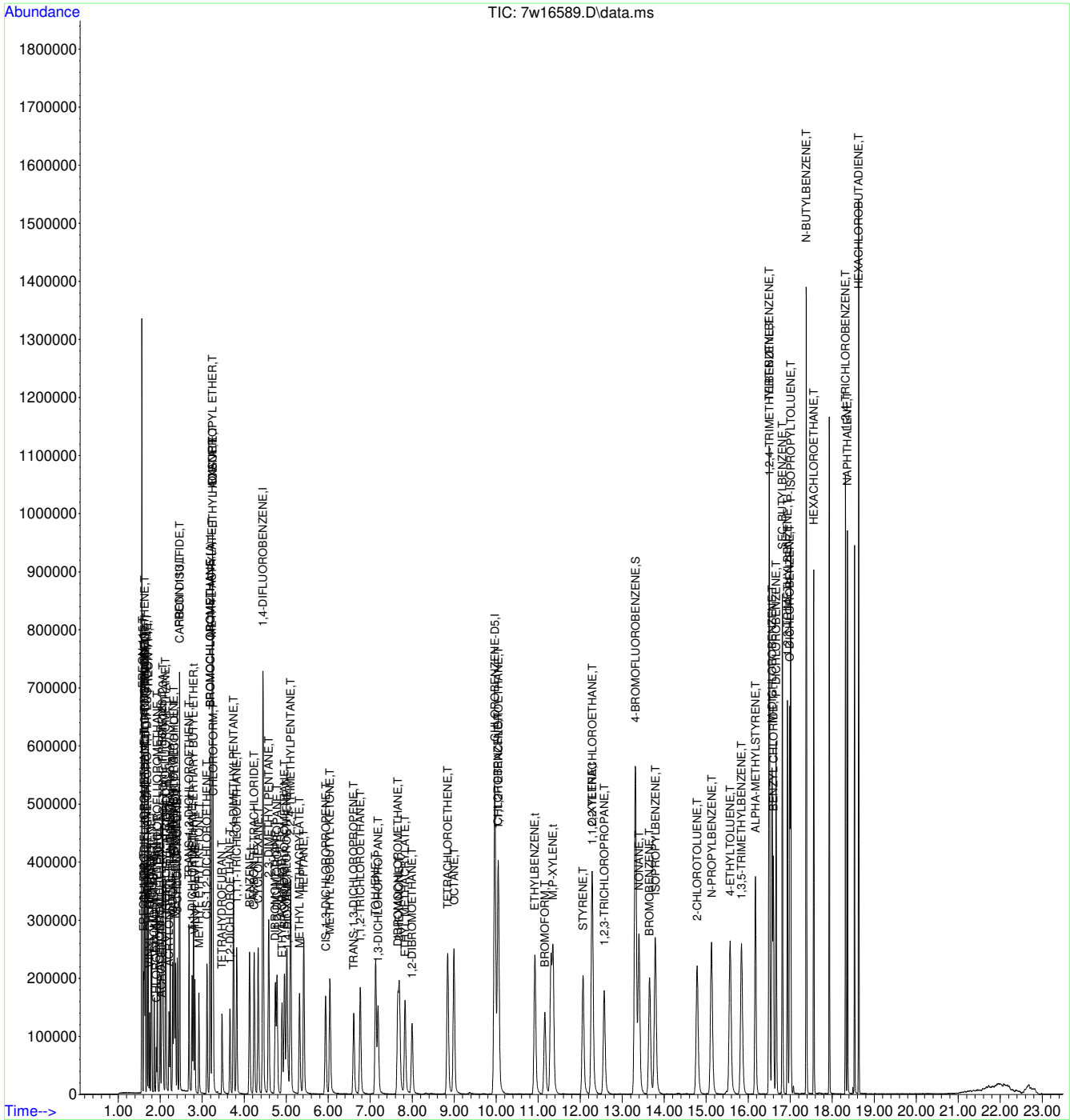
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

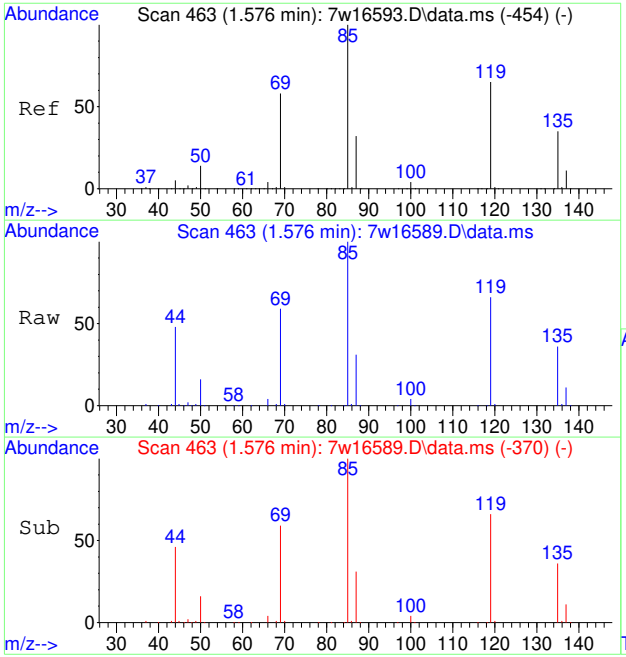
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:02:51 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

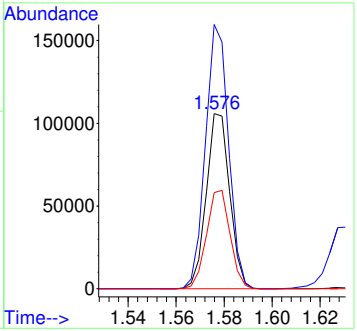


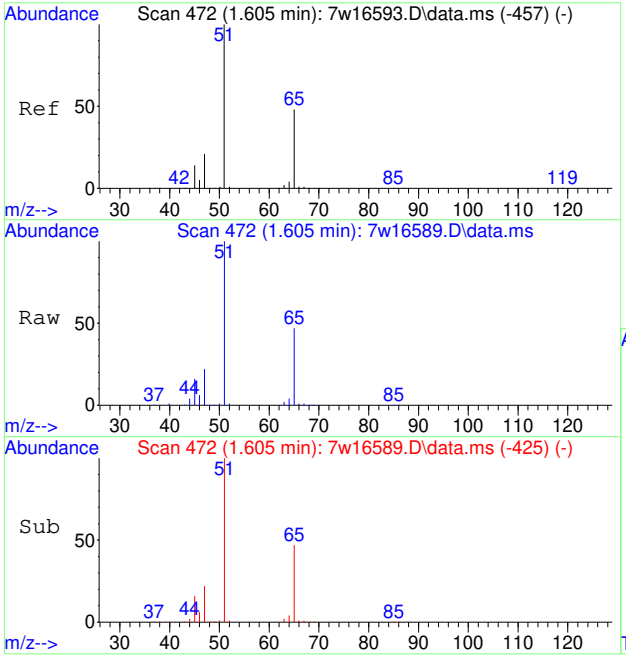


#2
FREON 115
Concen: 5.05 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:119 Resp: 71924

Ion	Ratio	Lower	Upper
119	100		
85	148.1	90.9	168.7
135	56.4	38.2	71.0

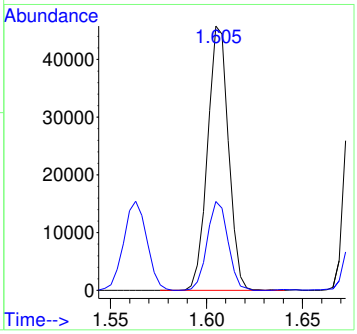


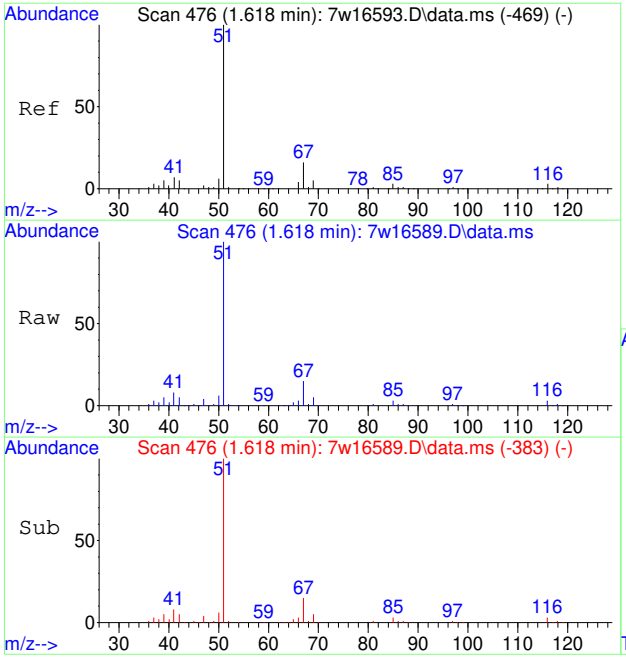


#3
FREON 152A
Concen: 5.11 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 34756

Ion	Ratio	Lower	Upper
65	100		
45	33.5	20.6	38.4

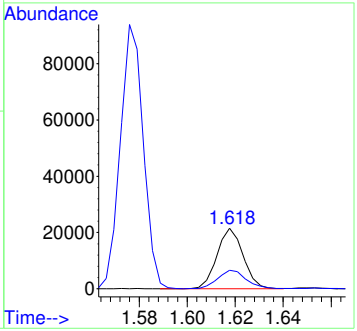


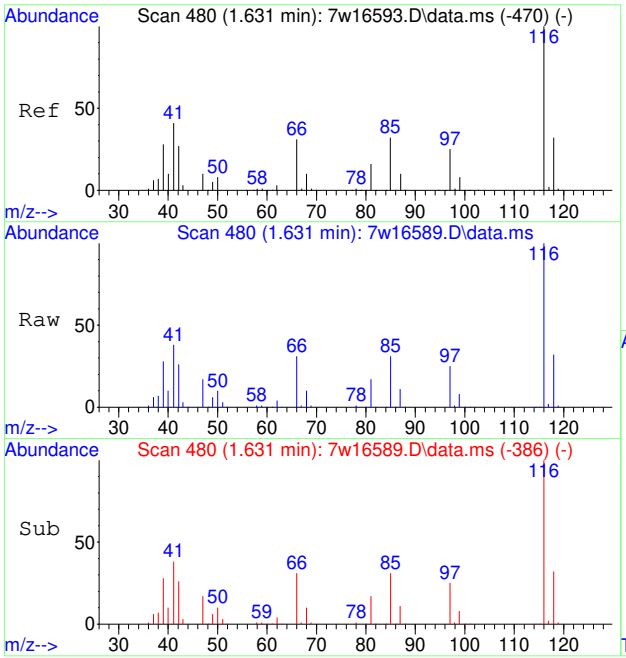


#4
CHLORODIFLUOROMETHANE
Concen: 5.26 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 16247

Ion	Ratio	Lower	Upper
67	100		
69	33.3	25.4	47.2

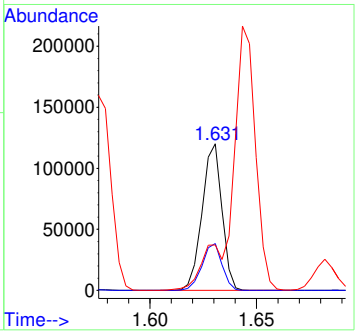


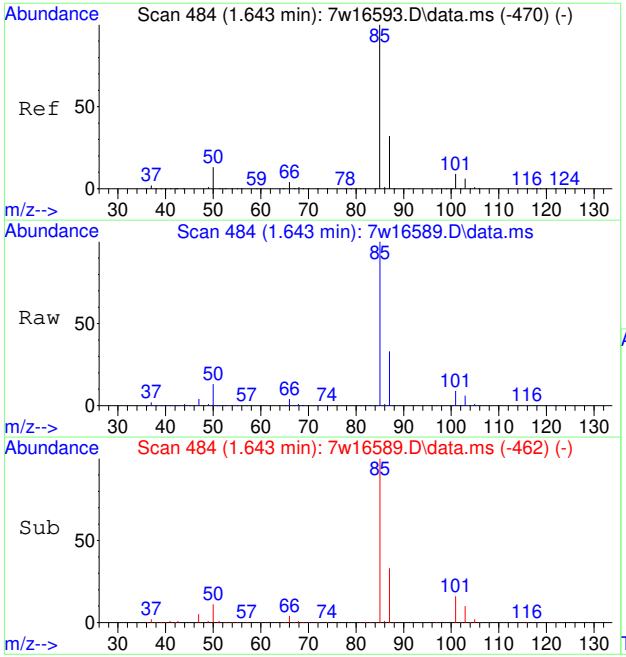


#5
CHLOROTRIFLUOROETHENE
Concen: 5.13 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:116 Resp: 77653

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.7	42.1
85	219.4	194.7	361.7

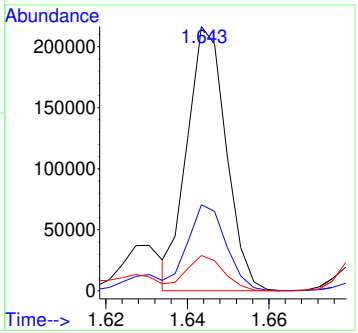


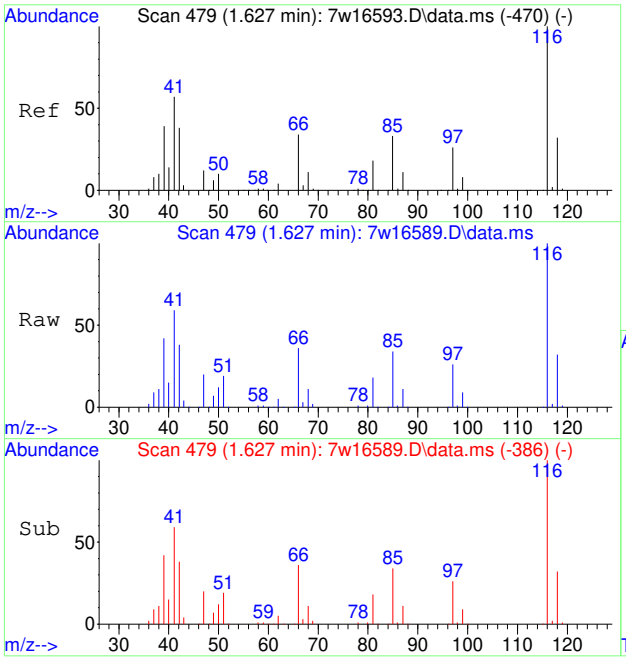


#6
DICHLORODIFLUOROMETHANE
Concen: 4.36 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 143733

Ion	Ratio	Lower	Upper
85	100		
87	38.6	23.1	42.9
50	22.8	12.1	22.5#

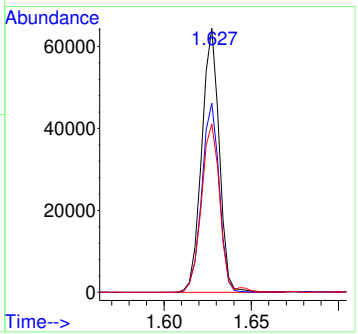


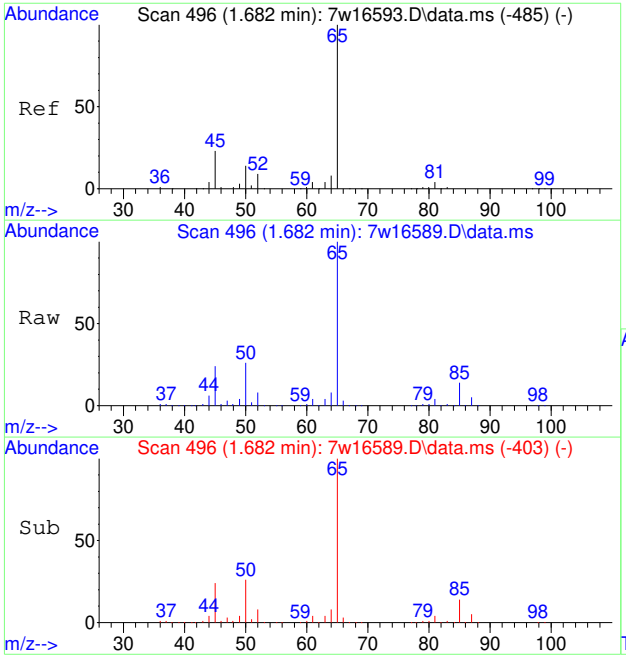


#7
PROPYLENE
Concen: 5.15 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 44998

Ion	Ratio	Lower	Upper
41	100		
39	71.7	51.0	94.8
42	67.5	46.6	86.6

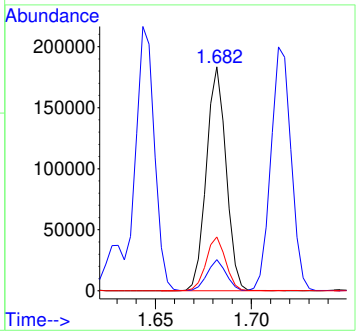


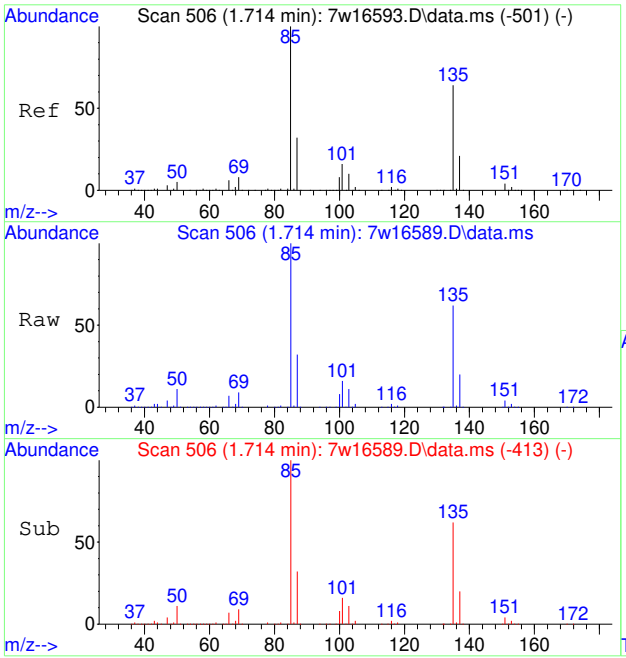


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 5.33 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 65 Resp: 131345

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.7	17.9
45	23.8	17.0	31.6

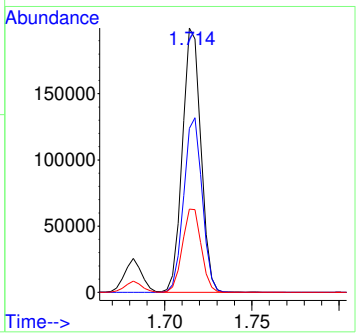


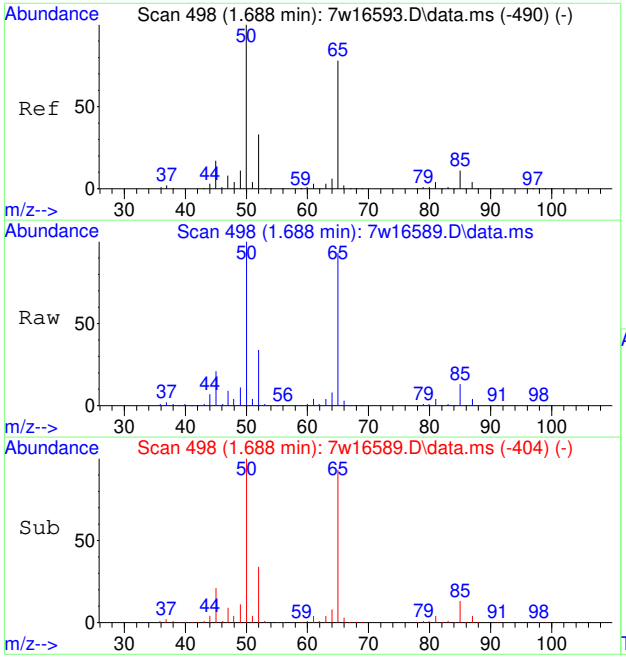


#9
FREON 114
Concen: 5.09 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 85 Resp: 147028

Ion	Ratio	Lower	Upper
85	100		
135	66.0	61.3	113.9
87	32.2	23.2	43.0

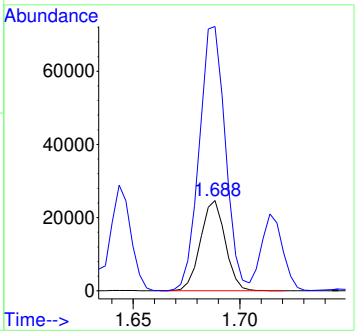


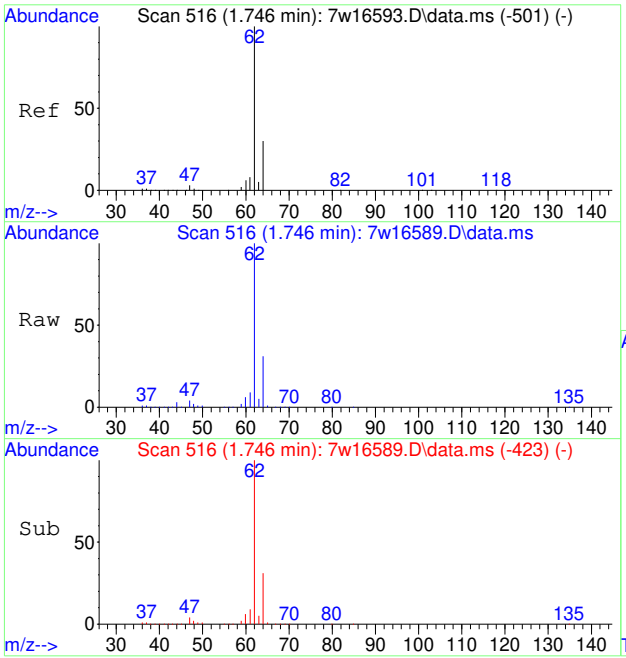


#10
CHLOROMETHANE
Concen: 5.36 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 19944

Ion	Ratio	Lower	Upper
52	100		
50	315.9	227.6	422.6

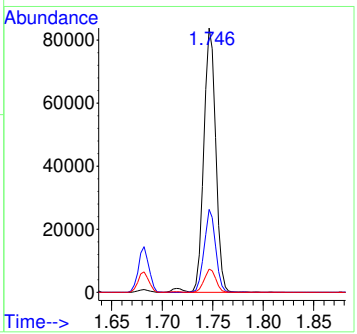


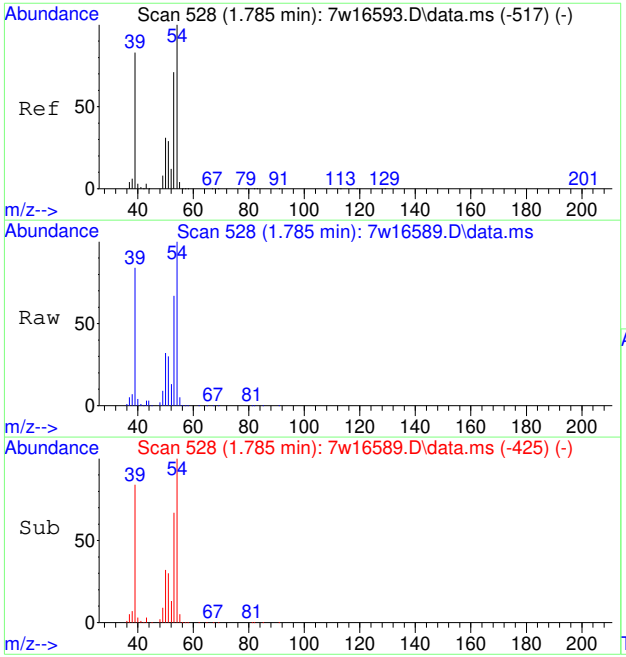


#11
VINYL CHLORIDE
Concen: 5.02 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 69360

Ion	Ratio	Lower	Upper
62	100		
64	29.9	21.6	40.2
61	8.5	5.7	10.7

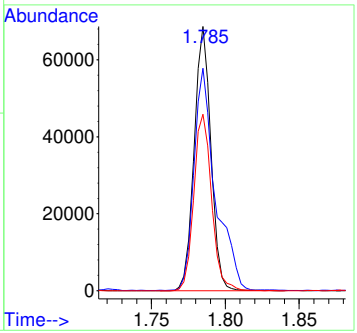


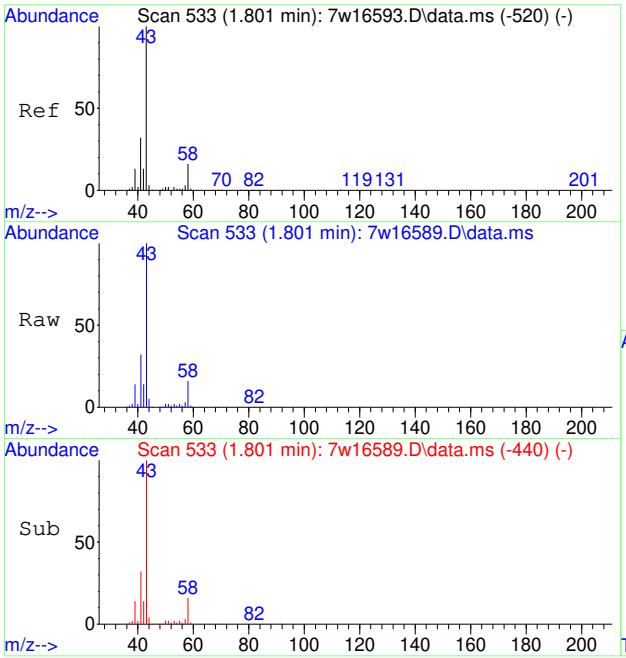


#12
1,3-BUTADIENE
Concen: 5.04 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 54 Resp: 53869

Ion	Ratio	Lower	Upper
54	100		
39	107.8	125.6	185.6#
53	71.3	40.7	100.7

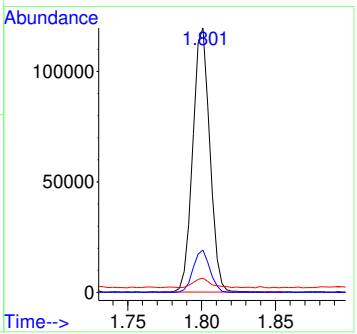


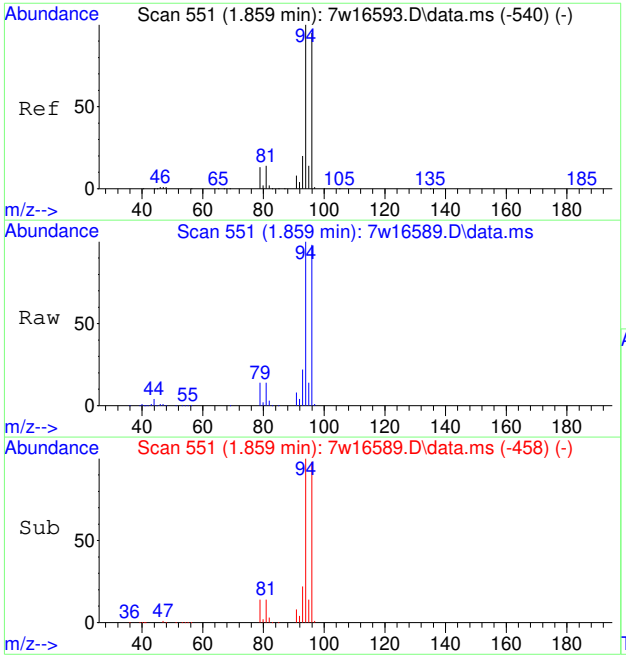


#13
N-BUTANE
Concen: 5.23 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 95908

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	4.1	3.0	5.6

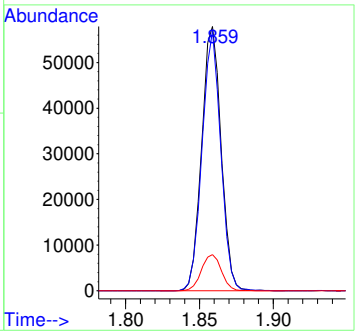


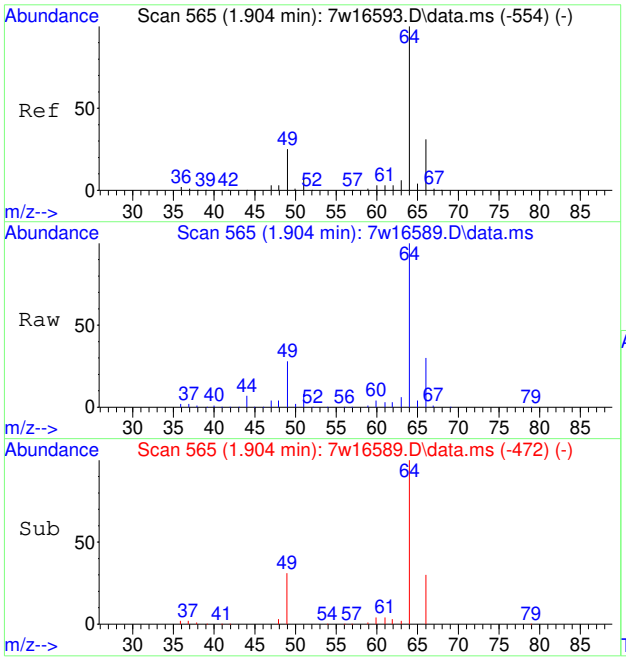


#14
BROMOMETHANE
Concen: 5.02 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 94 Resp: 52720

Ion	Ratio	Lower	Upper
94	100		
96	94.3	63.6	118.0
95	14.1	10.0	18.6

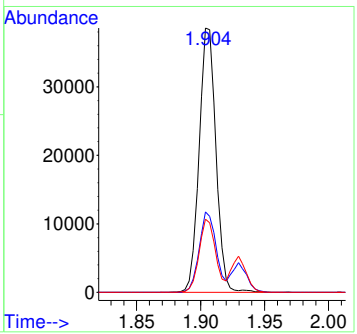


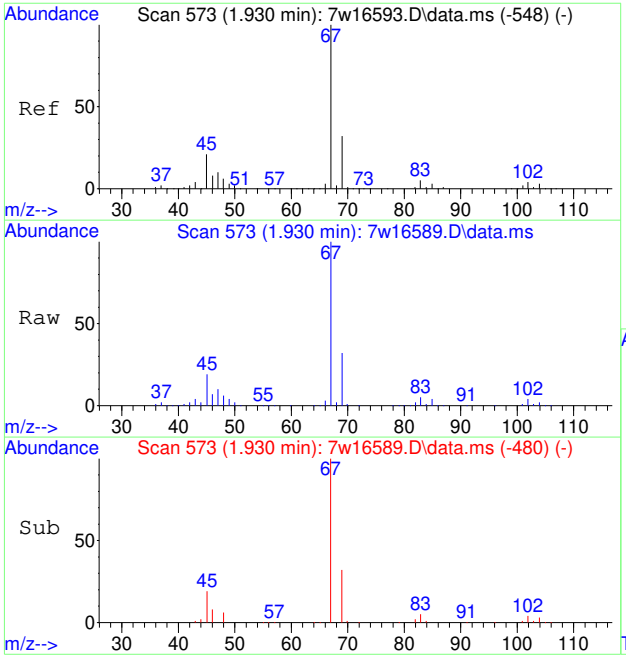


#15
CHLOROETHANE
Concen: 4.83 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 64 Resp: 35268

Ion	Ratio	Lower	Upper
64	100		
66	41.1	23.0	42.6
49	27.7	21.5	39.9

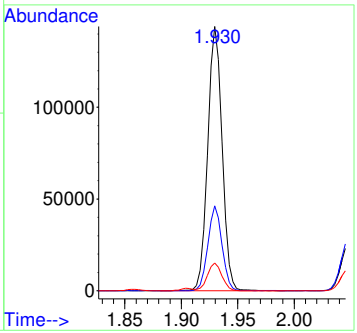


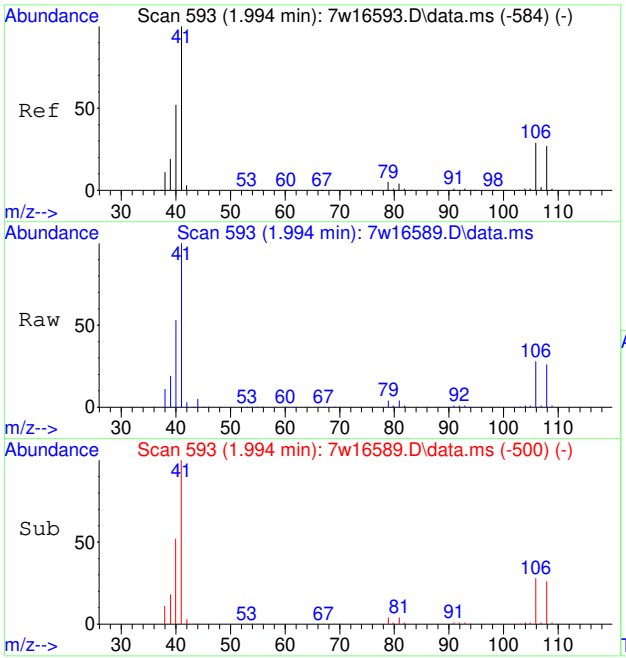


#16
DICHLOROFLUOROMETHANE
Concen: 4.88 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 67 Resp: 127414

Ion	Ratio	Lower	Upper
67	100		
69	31.5	23.2	43.0
47	11.4	9.6	17.8

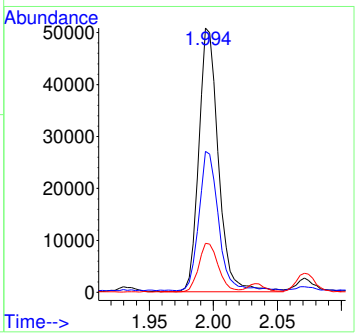


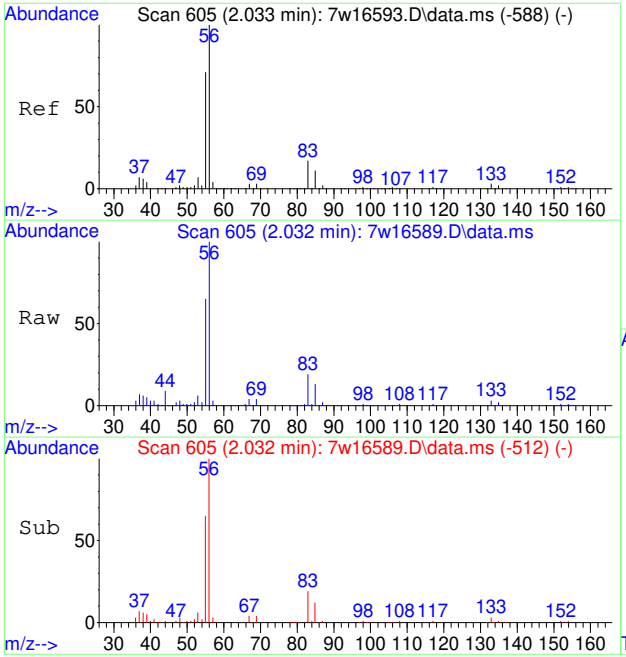


#17
ACETONITRILE
Concen: 4.71 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 41 Resp: 54085

Ion	Ratio	Lower	Upper
41	100		
40	53.0	38.4	71.4
39	18.5	14.5	26.9

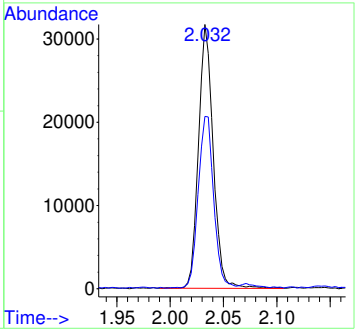


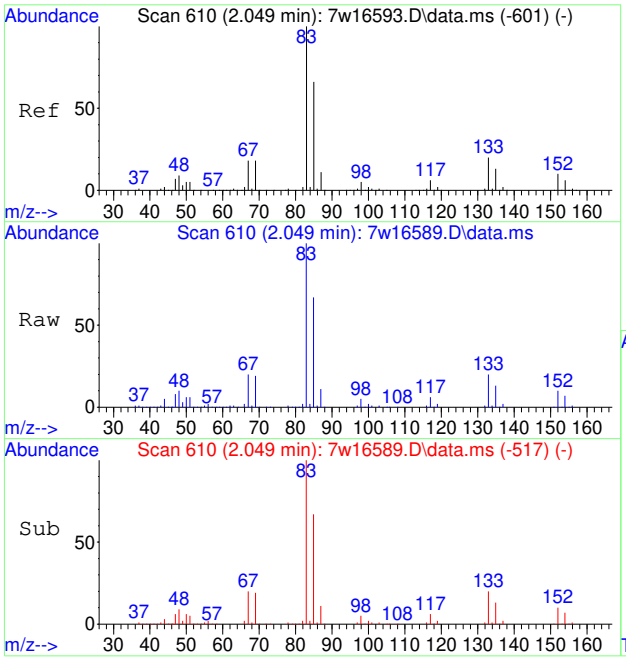


#18
ACROLEIN
Concen: 5.10 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 56 Resp: 30491

Ion	Ratio	Lower	Upper
56	100		
55	70.7	51.2	95.2

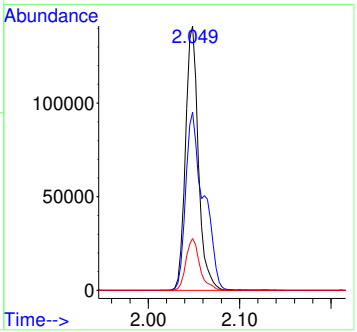


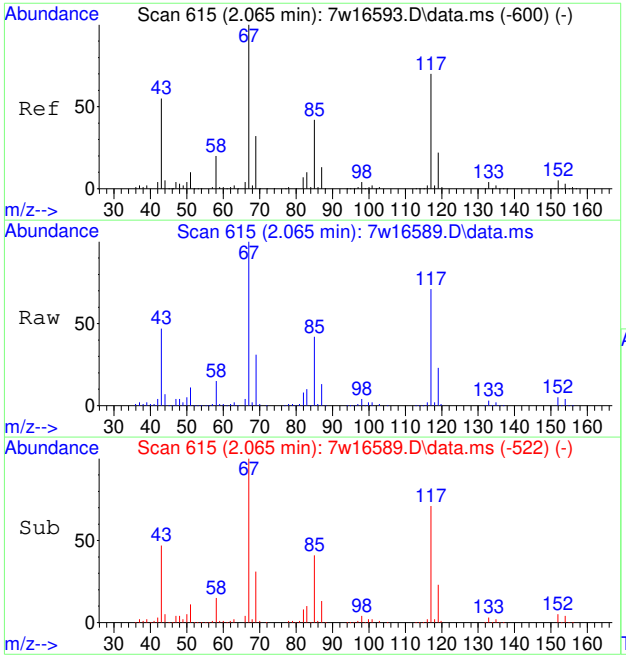


#19
FREON 123
Concen: 5.20 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 138654

Ion	Ratio	Lower	Upper
83	100		
85	93.6	65.7	121.9
133	21.1	19.9	36.9

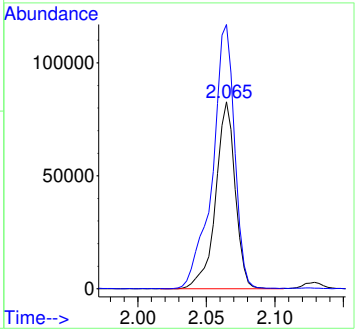


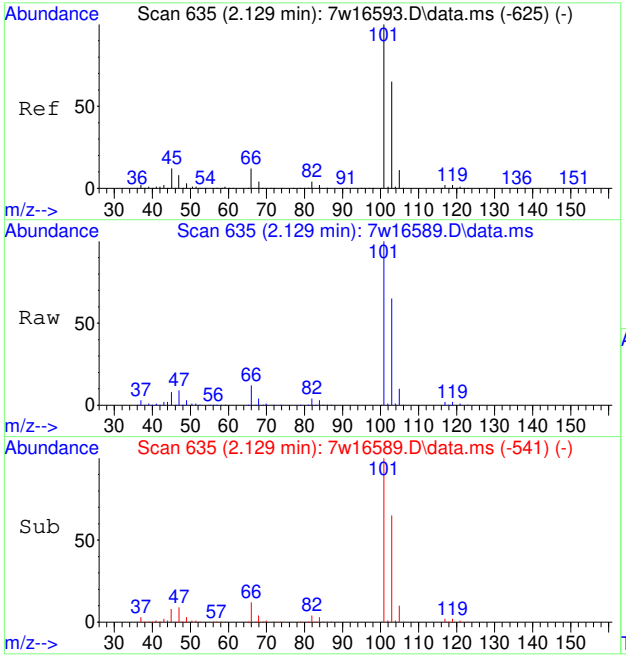


#20
FREON 123A
Concen: 5.24 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 81977

Ion	Ratio	Lower	Upper
117	100		
67	160.0	78.8	146.4#

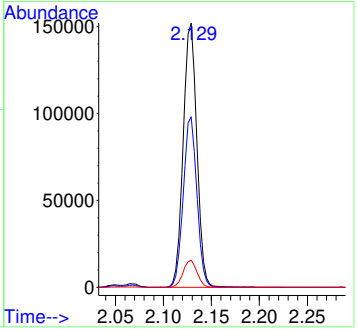


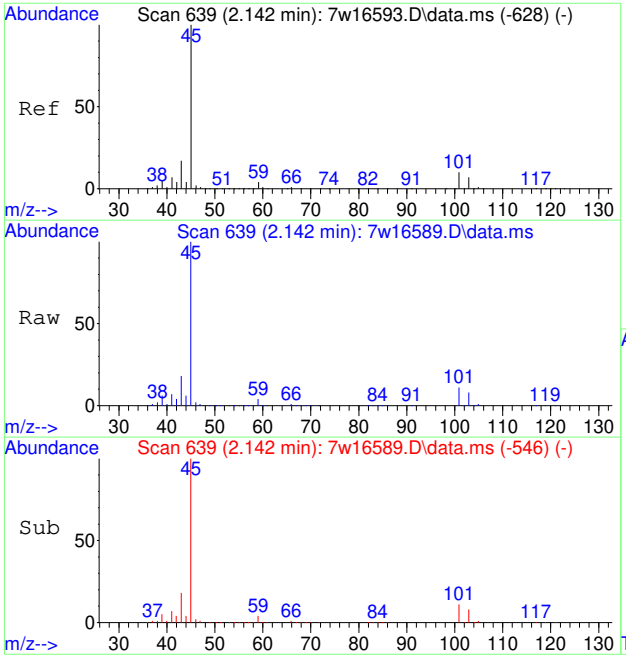


#21
TRICHLOROFLUOROMETHANE
Concen: 4.96 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:101 Resp: 150765

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.6	7.3	13.7

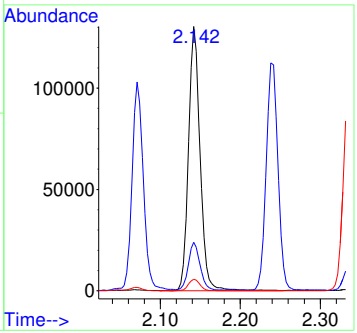


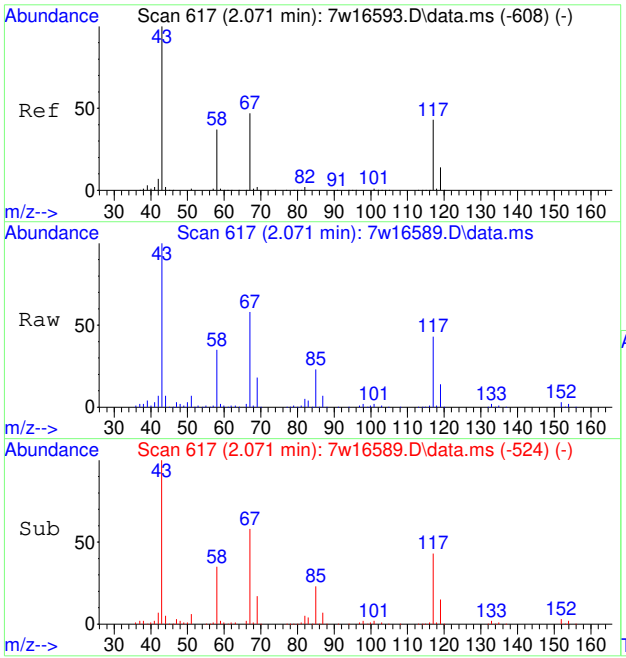


#22
ISOPROPYL ALCOHOL
Concen: 5.23 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 131851

Ion	Ratio	Lower	Upper
45	100		
43	18.3	17.1	31.9
59	4.4	3.1	5.8

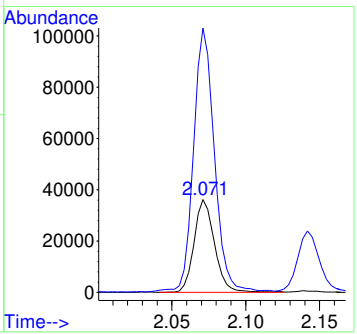


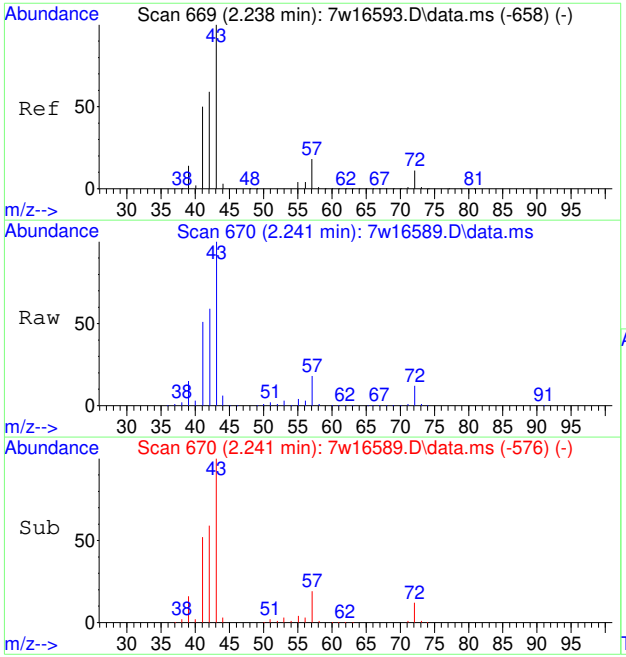


#23
ACETONE
Concen: 5.00 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 34925

Ion	Ratio	Lower	Upper
58	100		
43	288.8	254.0	471.6

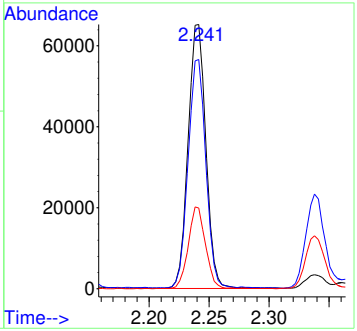


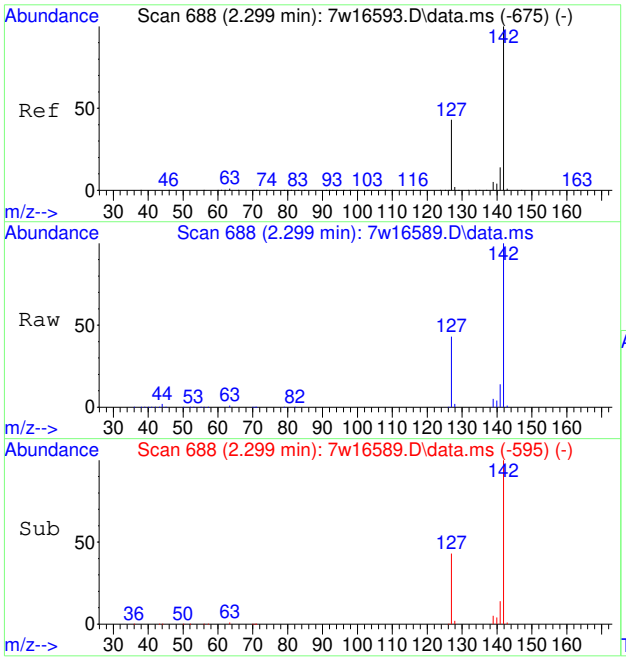


#24
PENTANE
Concen: 5.17 PPBV
RT: 2.241 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 42 Resp: 67328

Ion	Ratio	Lower	Upper
42	100		
41	86.9	69.2	128.6
57	30.5	18.6	34.6

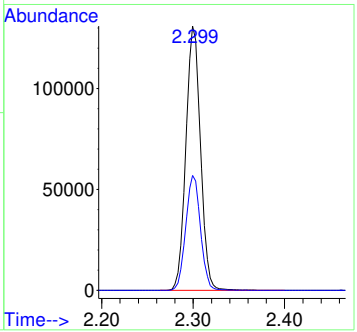


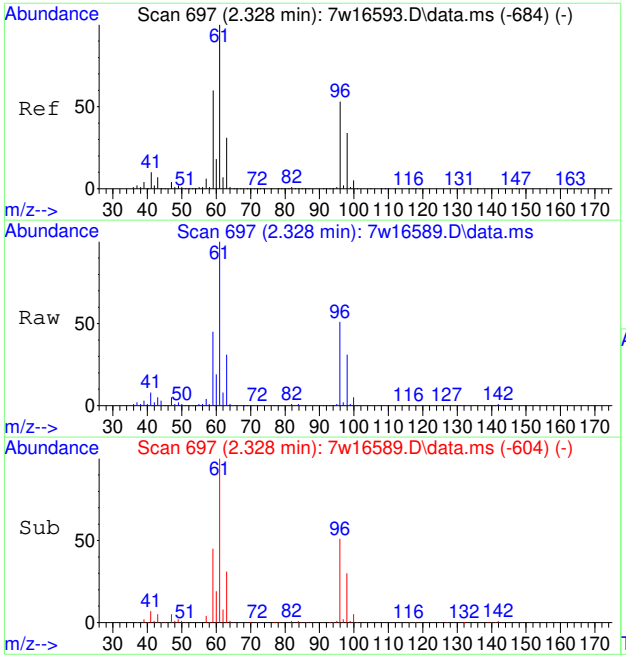


#25
IODOMETHANE
Concen: 5.22 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:142 Resp: 145418

Ion	Ratio	Lower	Upper
142	100		
127	43.8	32.1	59.7

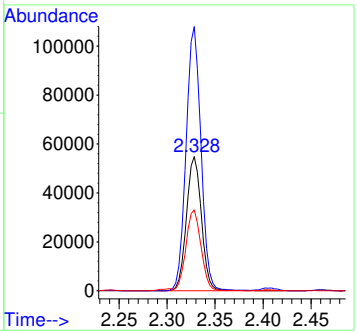


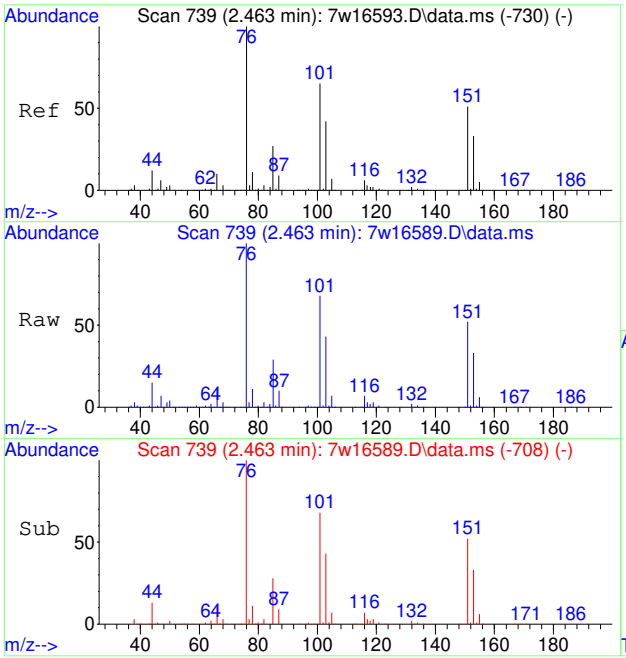


#26
1,1-DICHLOROETHYLENE
Concen: 5.29 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 59691

Ion	Ratio	Lower	Upper
96	100		
61	195.1	98.3	182.5#
63	61.9	33.2	61.7#

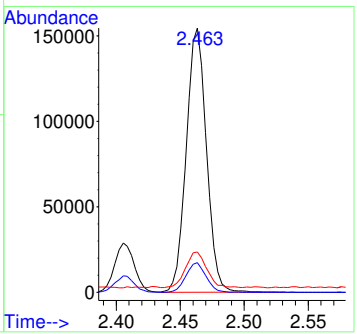


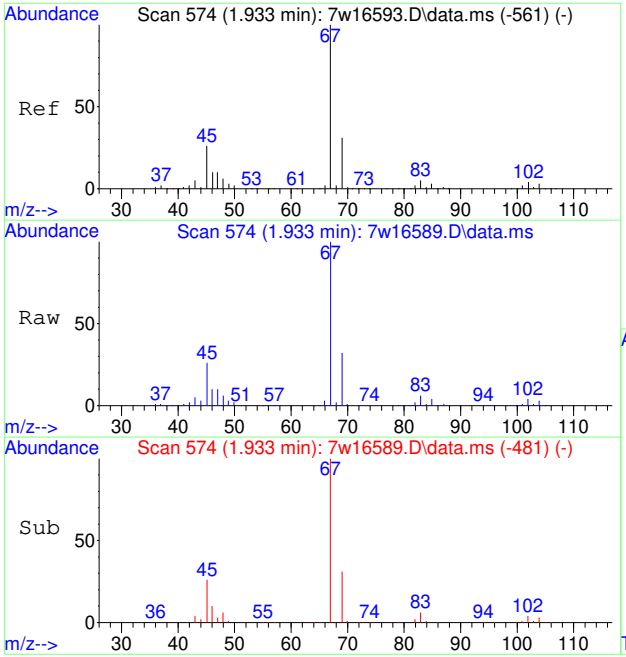


#27
CARBON DISULFIDE
Concen: 5.18 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 169676

Ion	Ratio	Lower	Upper
76	100		
78	11.2	8.3	15.3
44	14.4	13.0	24.1

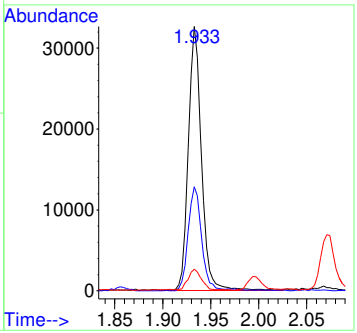


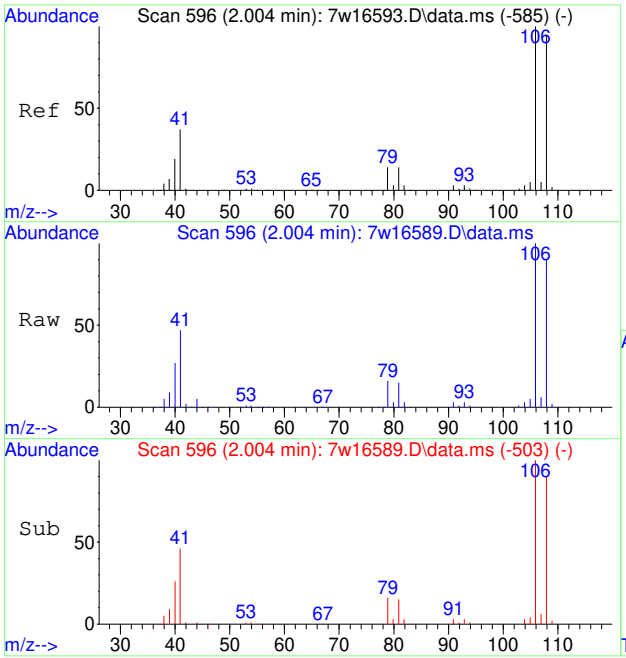


#28
ETHANOL
Concen: 4.82 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 45 Resp: 31099

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.7	55.1
42	9.0	7.3	13.5

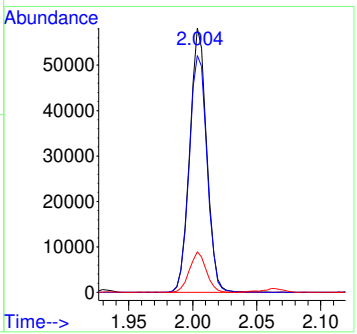


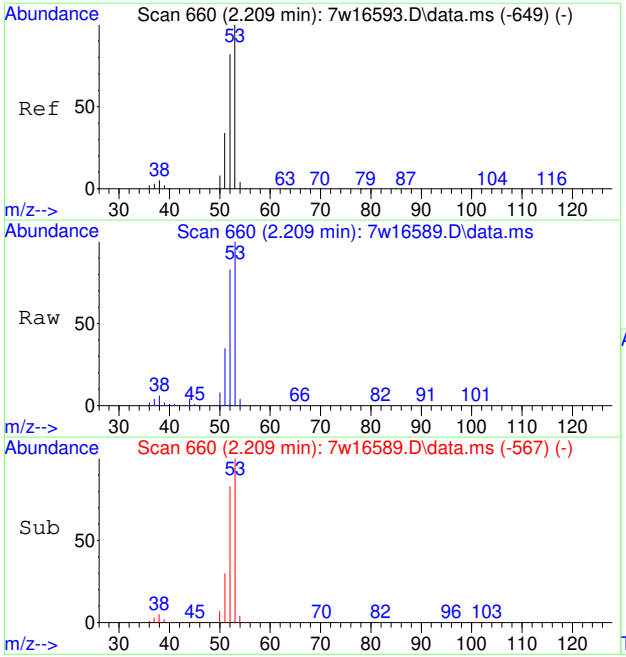


#29
BROMOETHENE
Concen: 4.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:106 Resp: 53853

Ion	Ratio	Lower	Upper
106	100		
108	93.9	68.3	126.8
81	15.2	14.7	27.3

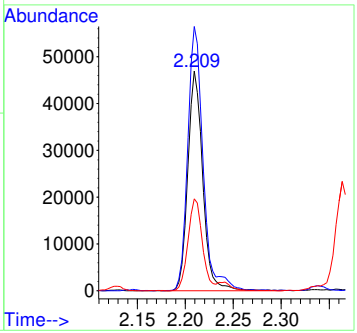


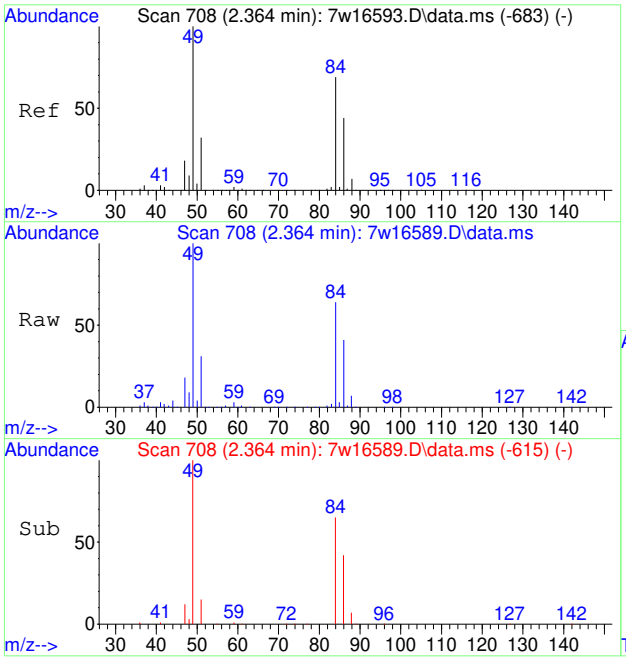


#30
ACRYLONITRILE
Concen: 5.27 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 52 Resp: 50954

Ion	Ratio	Lower	Upper
52	100		
53	124.0	86.3	160.3
51	44.3	33.6	62.4

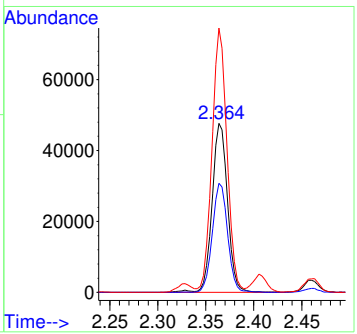


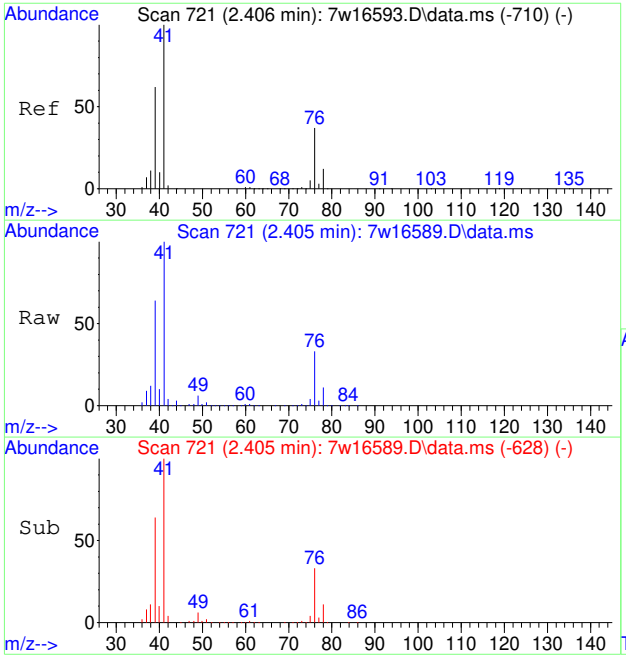


#31
METHYLENE CHLORIDE
Concen: 5.00 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 53489

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.9	83.5
49	151.5	79.7	148.1#

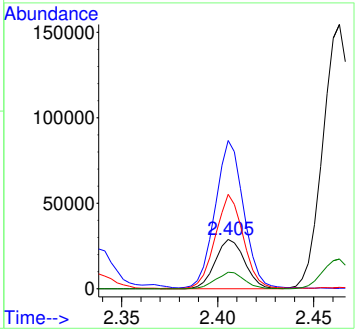


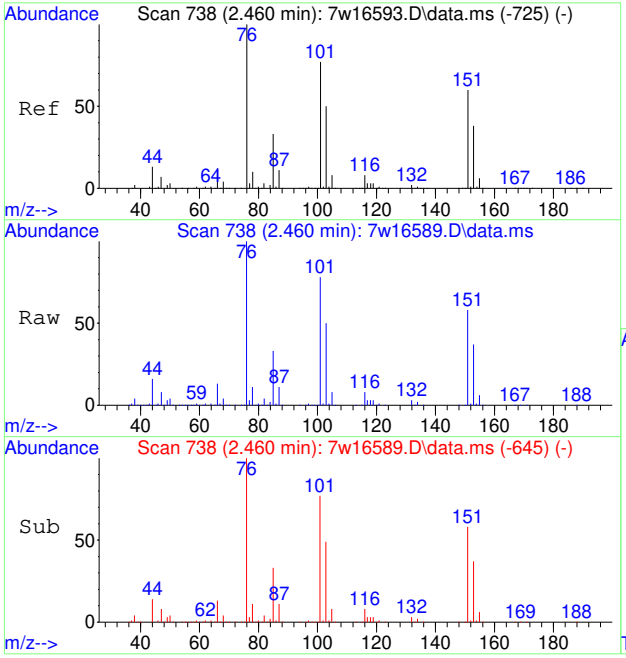


#32
3-CHLOROPROPENE
Concen: 5.04 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 30822

Ion	Ratio	Lower	Upper
76	100		
41	292.3	160.9	298.9
39	181.9	150.7	279.9
78	33.1	22.7	42.1

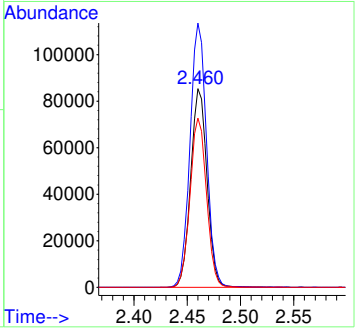


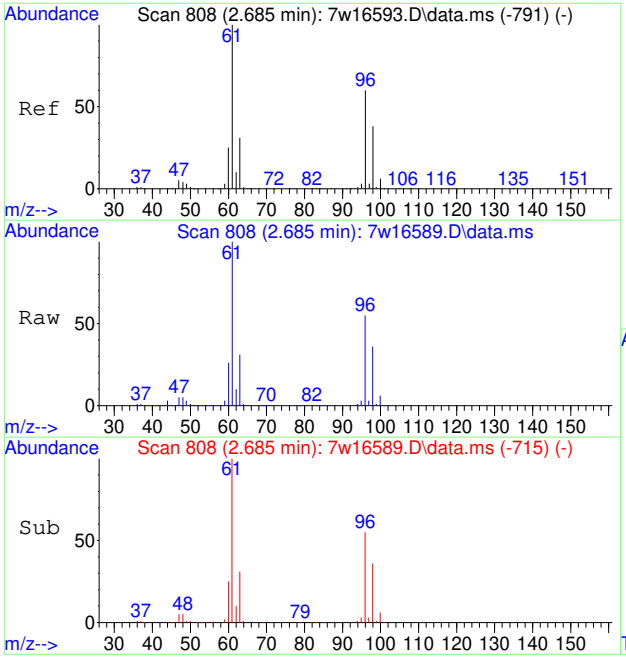


#33
FREON 113
Concen: 5.19 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:151 Resp: 91200

Ion	Ratio	Lower	Upper
151	100		
101	134.2	81.1	150.7
103	85.8	51.4	95.4

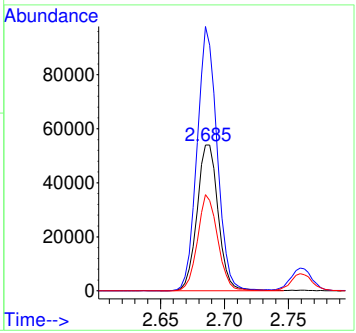


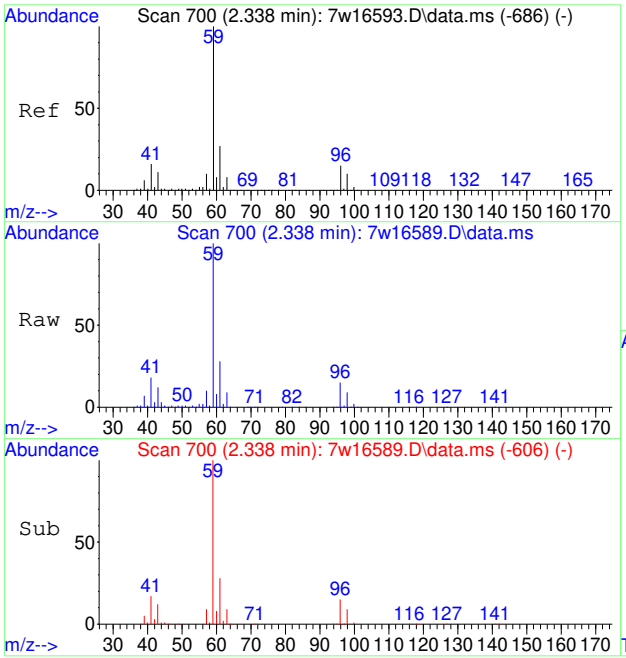


#34
TRANS-1,2-DICHLOROETHENE
Concen: 5.00 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 62237

Ion	Ratio	Lower	Upper
96	100		
61	171.0	78.5	145.9#
98	63.0	46.5	86.3

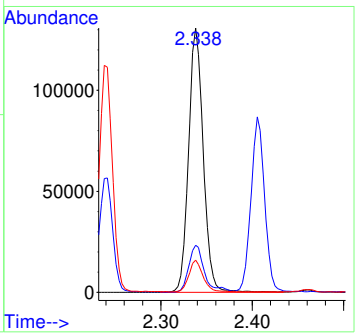


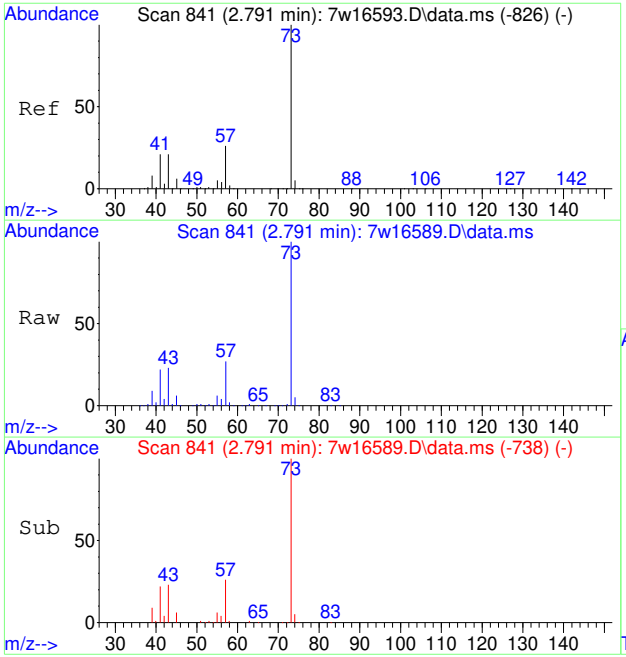


#35
TERTIARY BUTYL ALCOHOL
Concen: 4.75 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 146023

Ion	Ratio	Lower	Upper
59	100		
41	18.7	15.3	28.5
43	11.5	12.3	22.9#

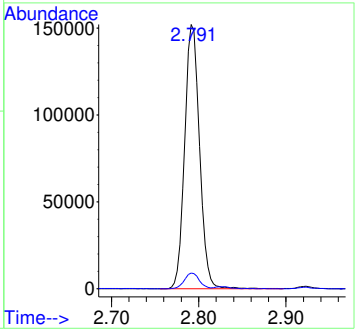


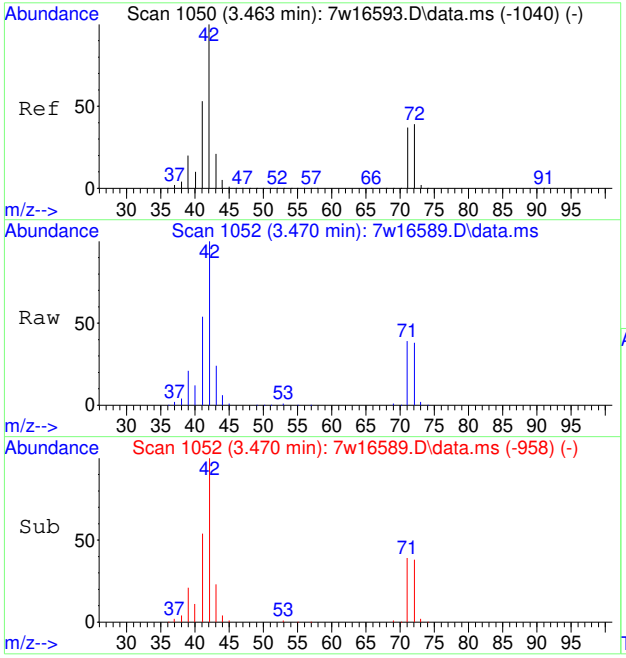


#36
METHYL TERTIARY BUTYL ETHER
Concen: 5.12 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 73 Resp: 180915

Ion	Ratio	Lower	Upper
73	100		
45	5.9	3.4	6.4

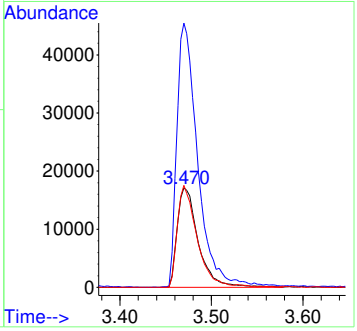


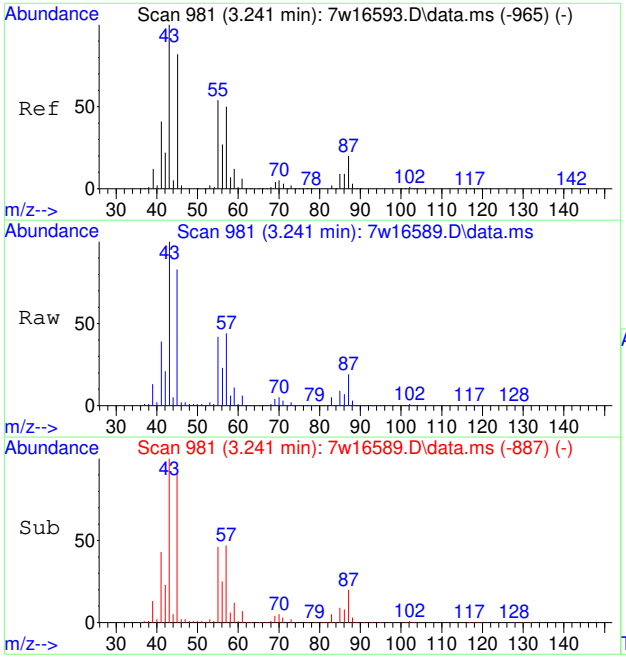


#37
TETRAHYDROFURAN
Concen: 4.64 PPBV
RT: 3.470 min Scan# 1052
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 27419

Ion	Ratio	Lower	Upper
72	100		
42	267.5	153.0	284.2
71	97.0	62.7	116.5

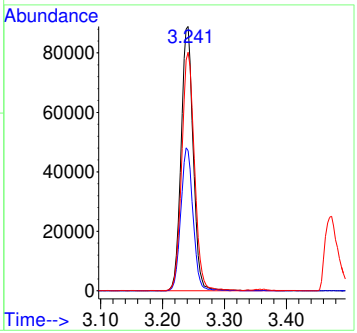


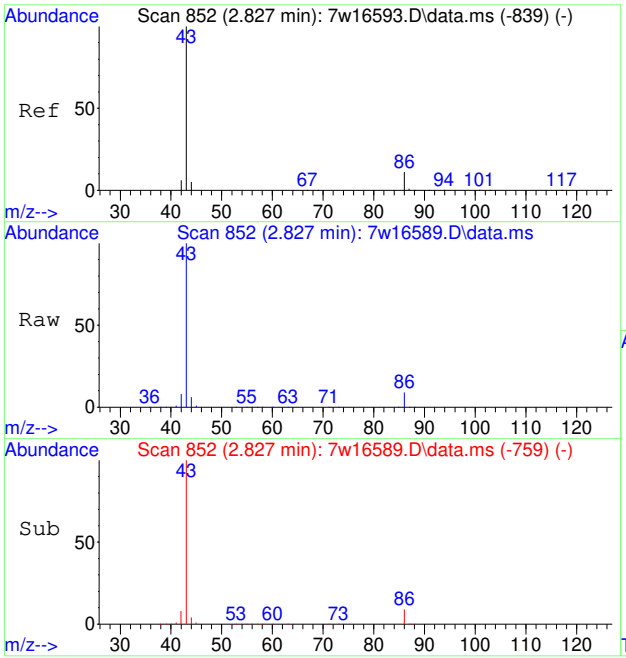


#38
HEXANE
Concen: 5.18 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 121135

Ion	Ratio	Lower	Upper
57	100		
56	54.5	37.3	69.3
41	95.1	86.7	161.1

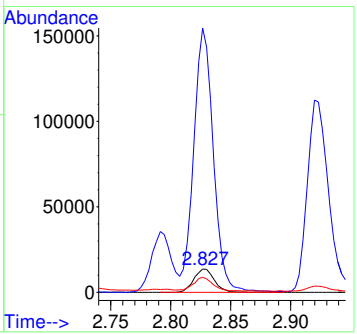


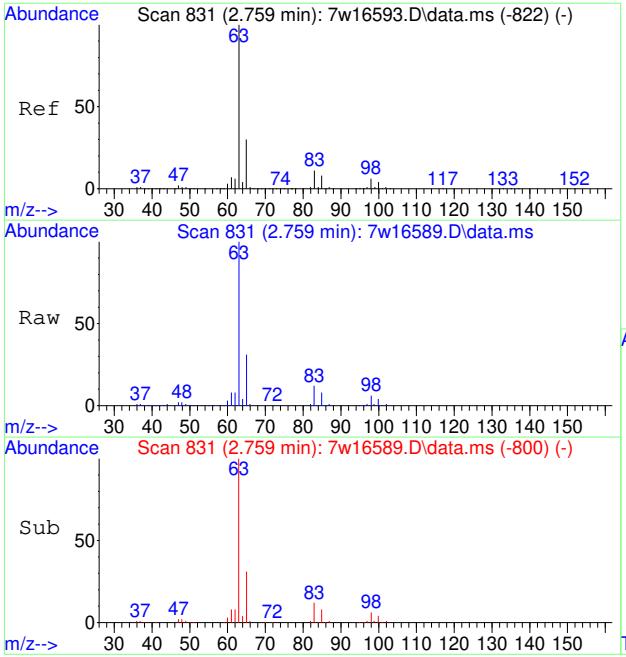


#39
VINYL ACETATE
Concen: 4.75 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 86 Resp: 16334

Ion	Ratio	Lower	Upper
86	100		
43	1085.5	667.9	1240.3
44	60.0	32.7	60.7

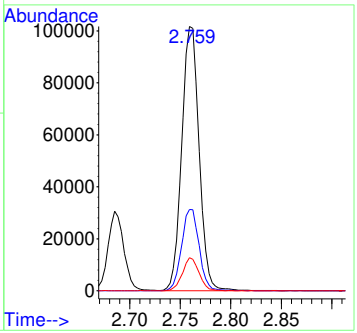


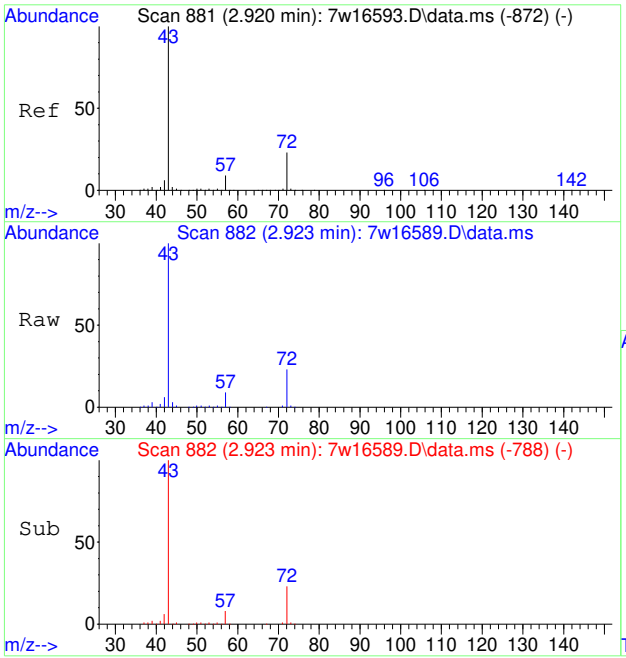


#40
1,1-DICHLOROETHANE
Concen: 4.97 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 121863

Ion	Ratio	Lower	Upper
63	100		
65	31.1	21.8	40.6
83	12.0	10.6	19.6

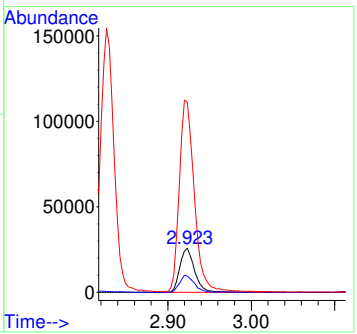


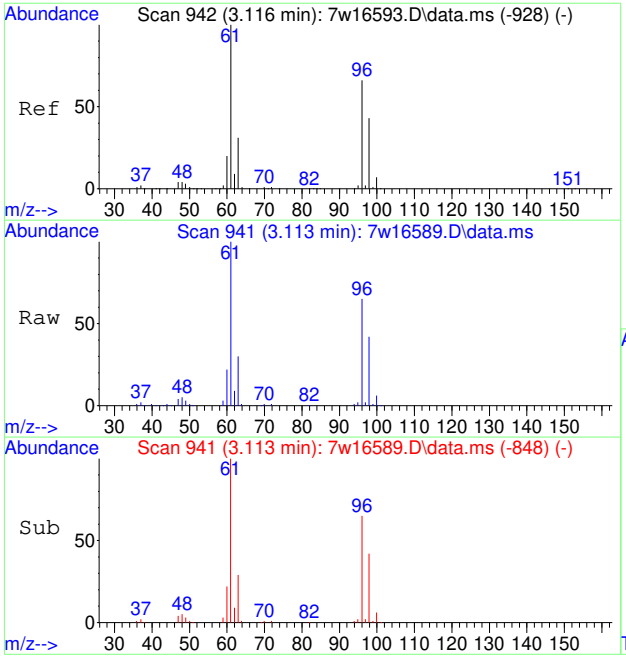


#41
METHYL ETHYL KETONE
Concen: 5.07 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 72 Resp: 31986

Ion	Ratio	Lower	Upper
72	100		
57	39.2	20.3	37.7#
43	443.0	282.8	525.2

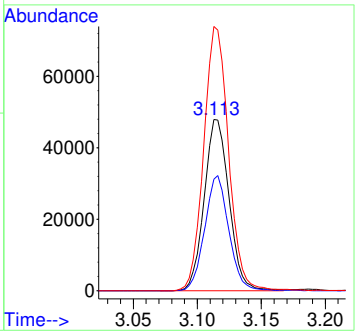


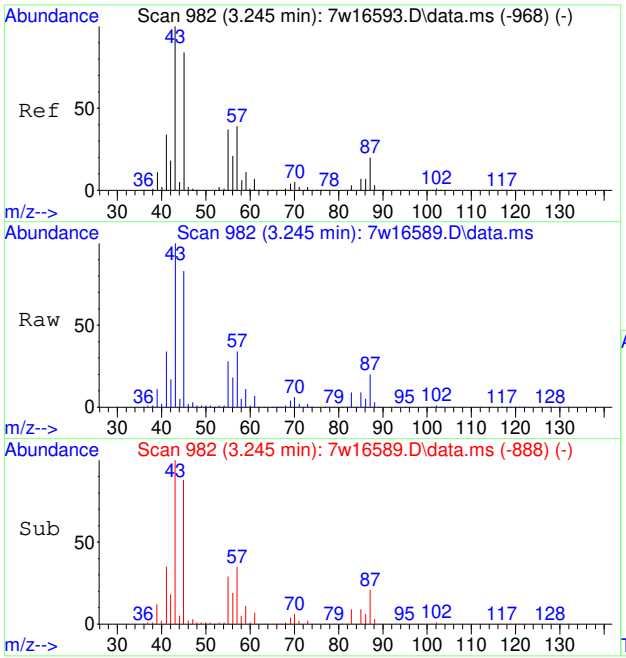


#42
CIS-1,2-DICHLOROETHENE
Concen: 5.01 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 96 Resp: 64888

Ion	Ratio	Lower	Upper
96	100		
98	65.5	46.8	86.8
61	154.3	78.3	145.5#

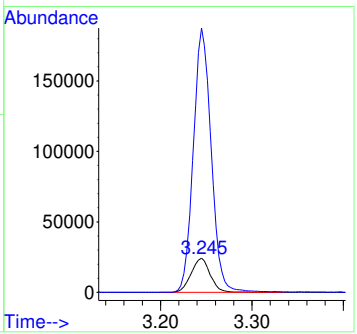


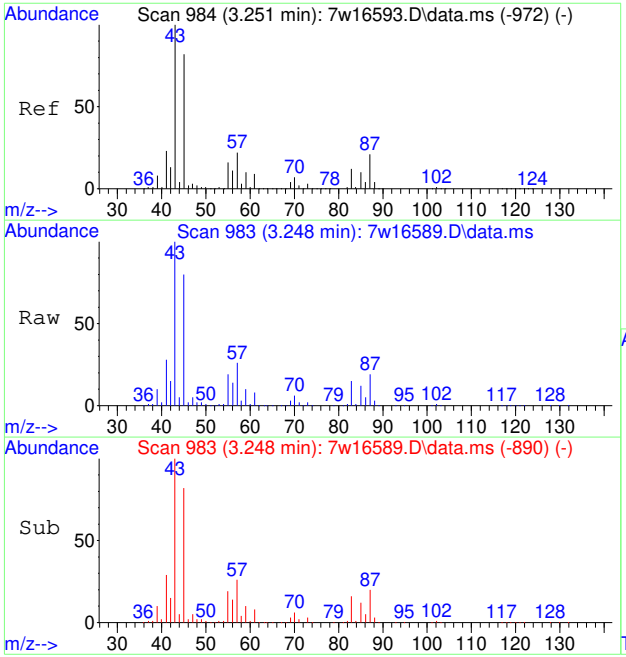


#43
DIISOPROPYL ETHER
Concen: 5.24 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 59 Resp: 35230

Ion	Ratio	Lower	Upper
59	100		
45	724.5	532.1	988.1

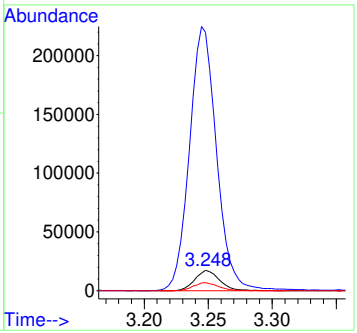


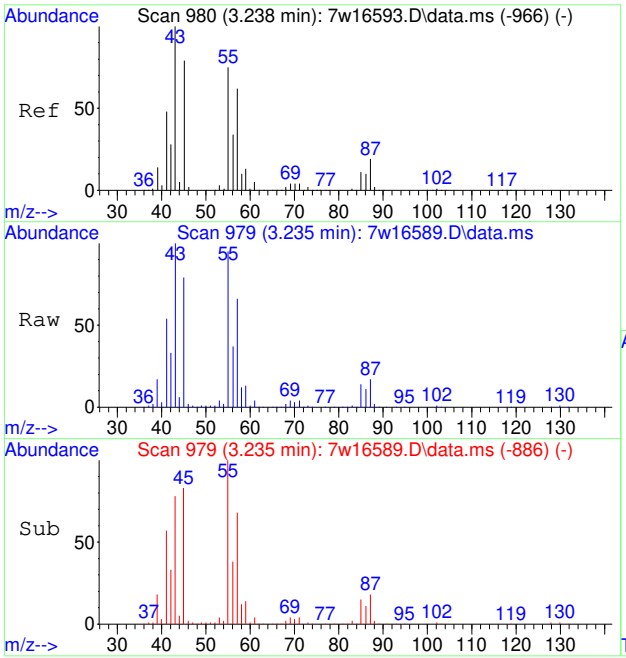


#44
ETHYL ACETATE
Concen: 4.98 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 61 Resp: 23700

Ion	Ratio	Lower	Upper
61	100		
43	1408.7	1127.5	2093.9
88	40.8	36.2	67.2

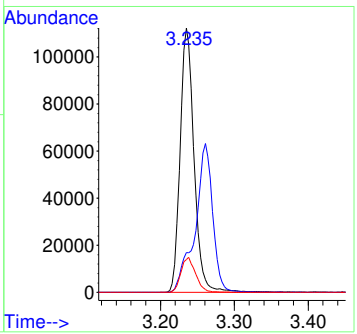


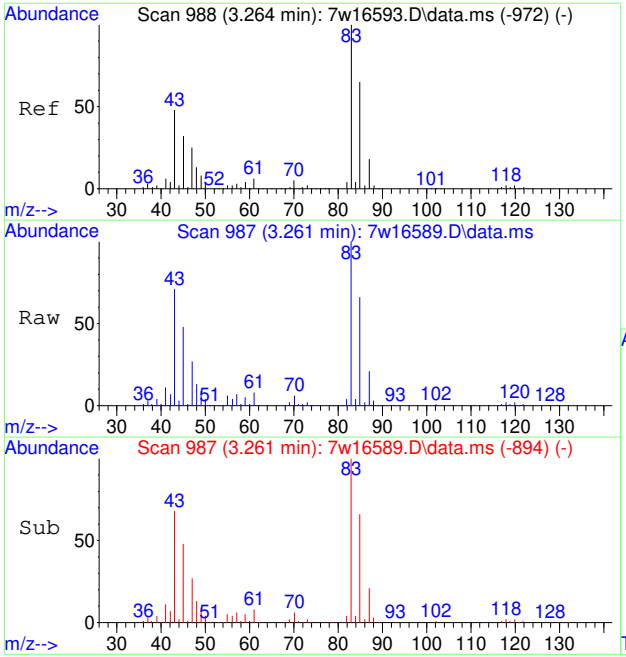


#45
METHYL ACRYLATE
Concen: 5.10 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 147700

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	14.0	9.2	17.0

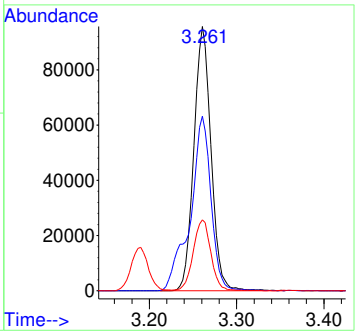


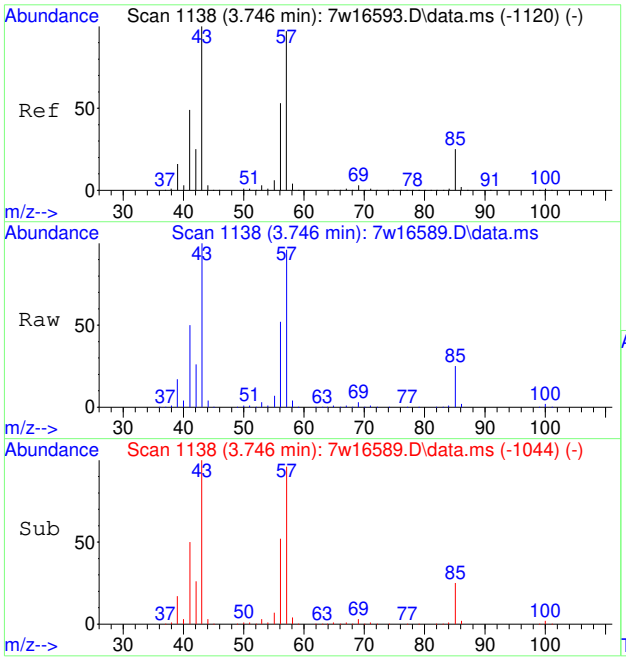


#46
CHLOROFORM
Concen: 5.10 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 130788

Ion	Ratio	Lower	Upper
83	100		
85	80.1	54.6	101.4
47	27.9	17.9	33.3

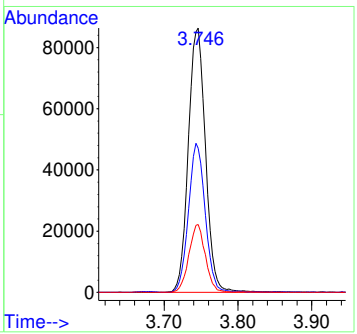


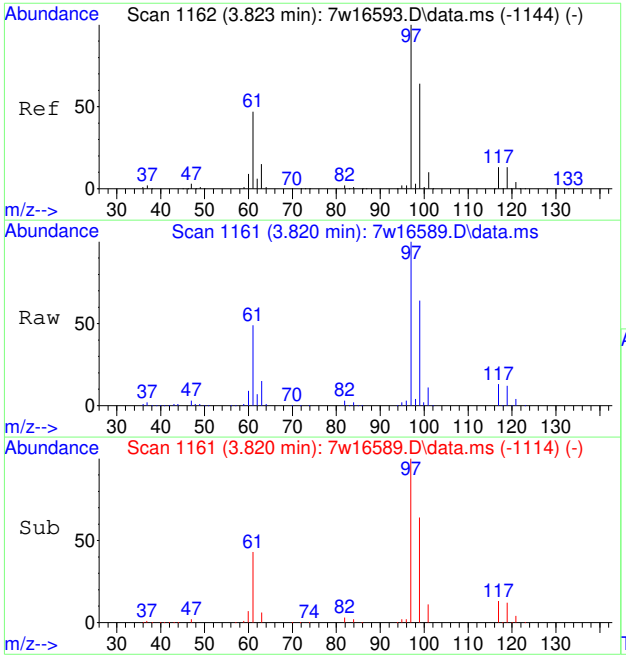


#47
2,4-DIMETHYLPENTANE
Concen: 5.24 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 139904

Ion	Ratio	Lower	Upper
57	100		
56	55.4	39.2	72.8
85	24.6	24.1	44.7

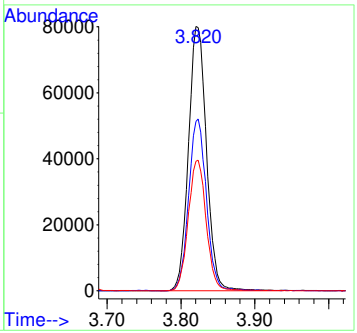


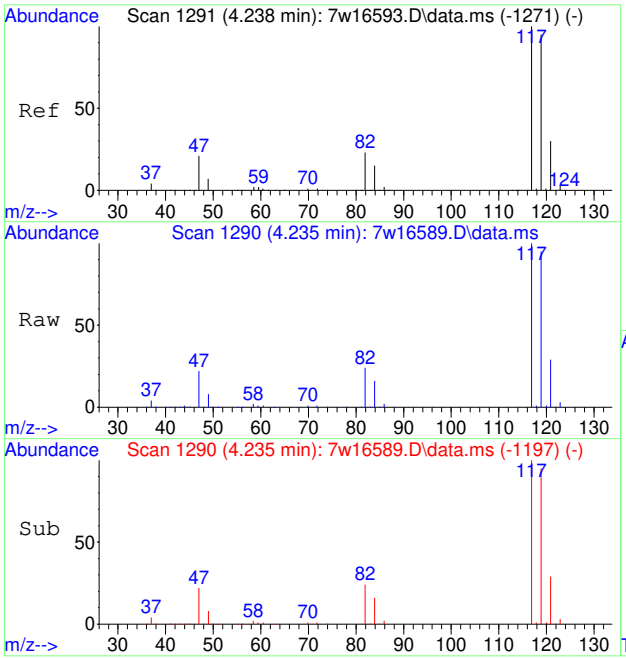


#48
1,1,1-TRICHLOROETHANE
Concen: 5.09 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 97 Resp: 135968

Ion	Ratio	Lower	Upper
97	100		
99	64.1	44.9	83.5
61	49.4	28.6	53.0

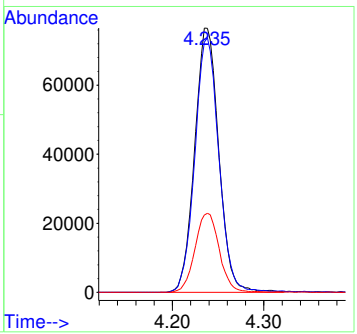


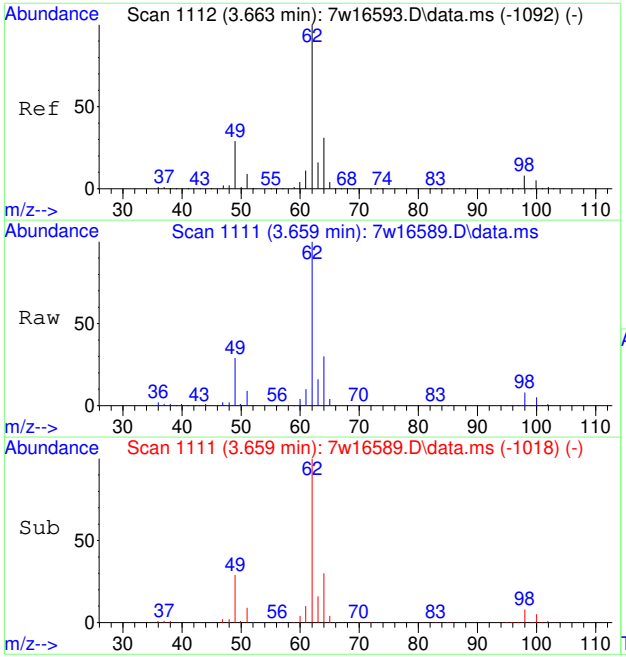


#49
CARBON TETRACHLORIDE
Concen: 4.91 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 140153

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

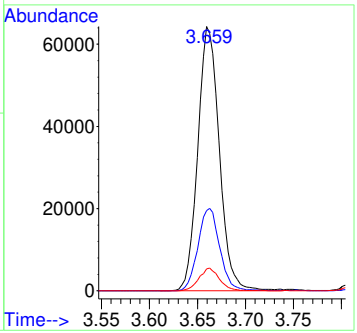


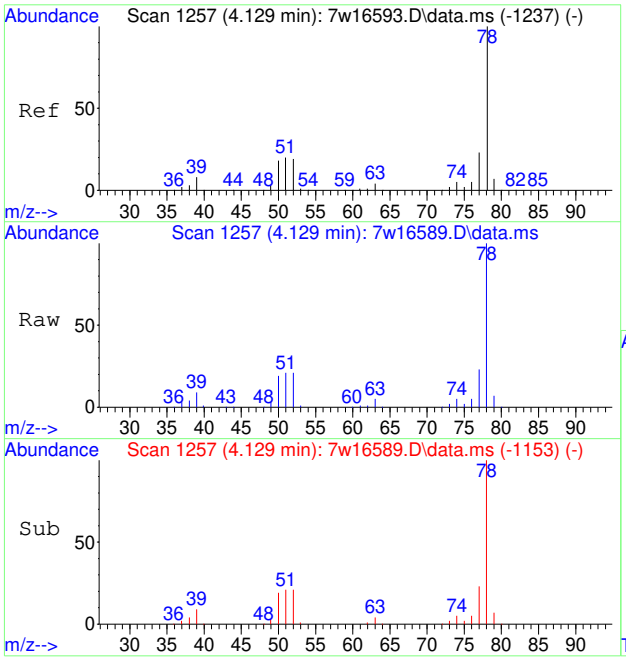


#50
1,2-DICHLOROETHANE
Concen: 5.00 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 62 Resp: 100577

Ion	Ratio	Lower	Upper
62	100		
64	31.6	22.5	41.7
98	8.2	6.8	12.6

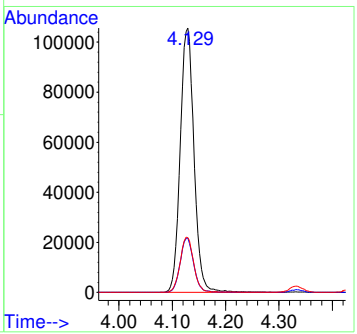


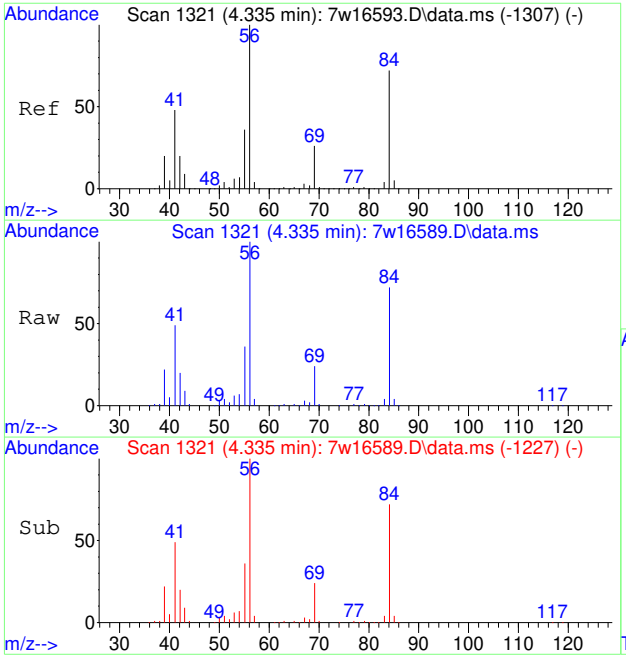


#51
BENZENE
Concen: 5.07 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 78 Resp: 190147

Ion	Ratio	Lower	Upper
78	100		
52	20.1	0.0	44.6
51	20.6	0.0	47.3

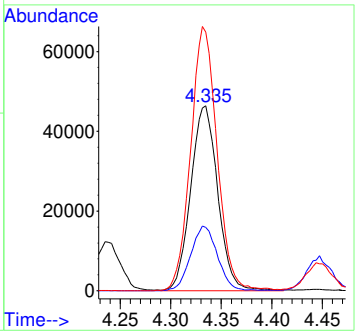


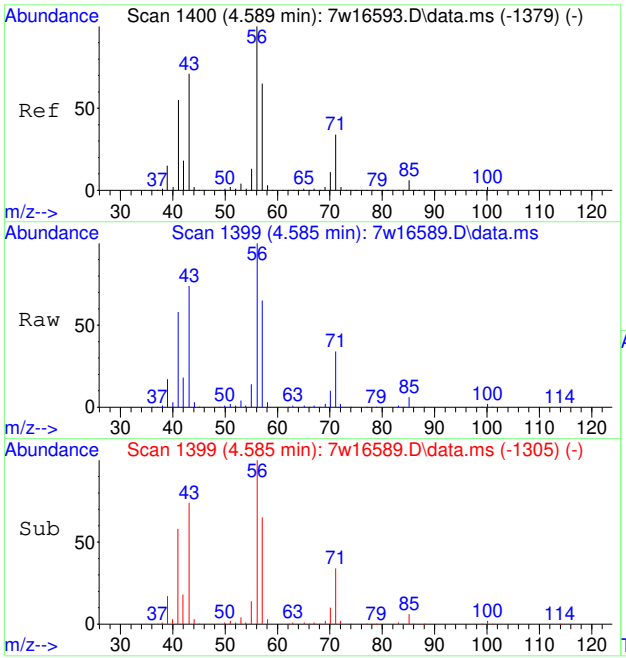


#53
CYCLOHEXANE
Concen: 5.03 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 84 Resp: 86740

Ion	Ratio	Lower	Upper
84	100		
69	34.6	22.3	41.5
56	139.2	70.2	130.4#

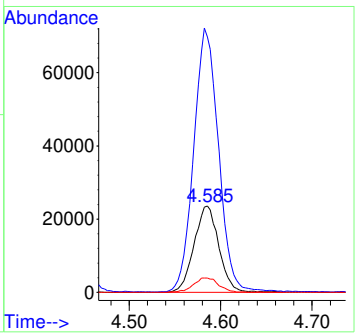


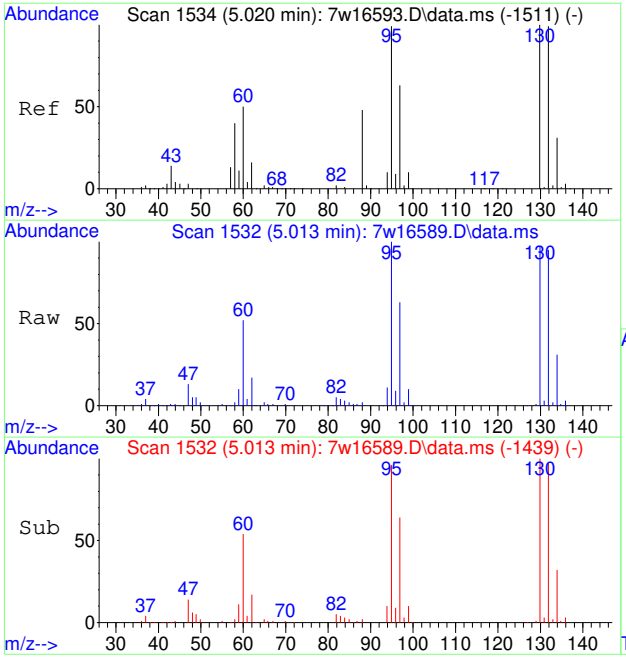


#54
2,3-DIMETHYLPENTANE
Concen: 5.09 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 71 Resp: 44676

Ion	Ratio	Lower	Upper
71	100		
56	304.2	171.4	318.4
85	17.1	12.6	23.4

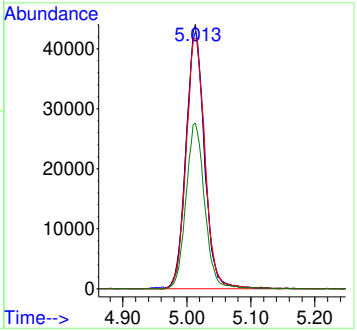


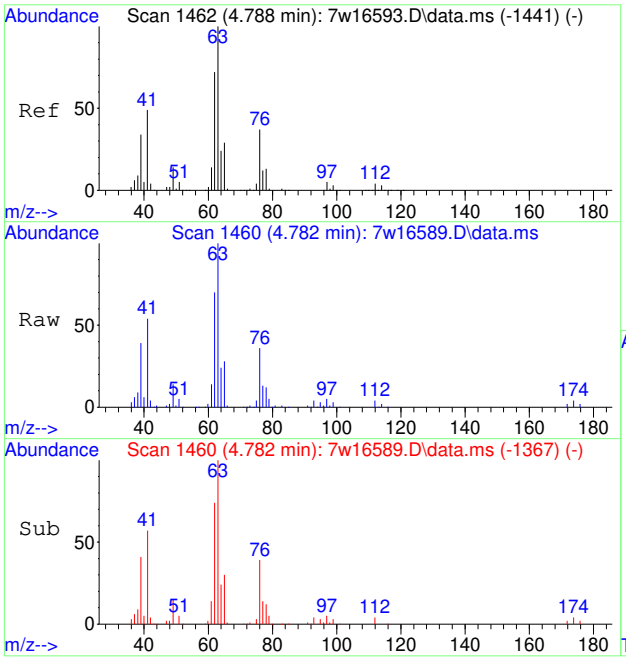


#55
TRICHLOROETHENE
Concen: 4.76 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 95 Resp: 87453

Ion	Ratio	Lower	Upper
95	100		
130	99.4	85.9	159.5
132	98.4	79.4	147.4
97	63.7	45.0	83.6

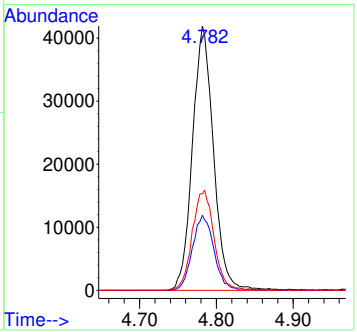


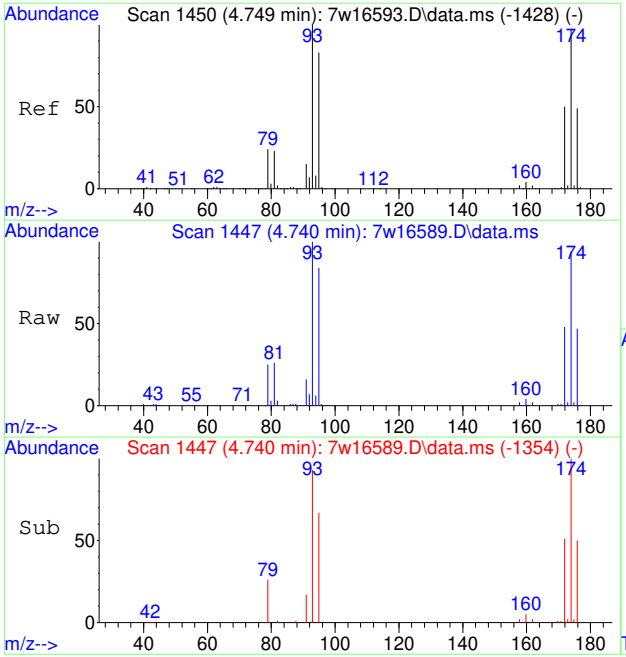


#56
1,2-DICHLOROPROPANE
Concen: 4.94 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 63 Resp: 79932

Ion	Ratio	Lower	Upper
63	100		
65	29.2	22.6	42.0
76	39.2	31.8	59.0

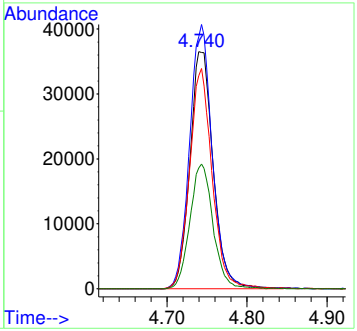


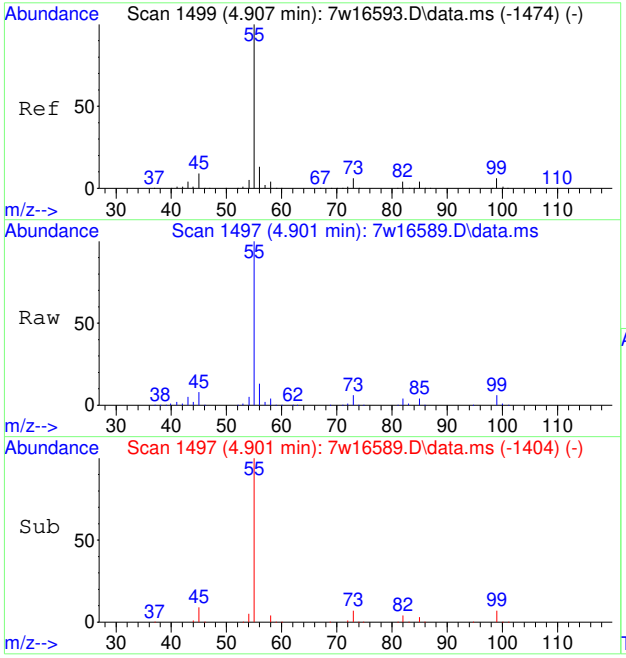


#57
DIBROMOMETHANE
Concen: 4.94 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:174 Resp: 74130

Ion	Ratio	Lower	Upper
174	100		
93	109.1	67.3	125.1
95	90.0	56.8	105.6
172	52.3	36.3	67.5

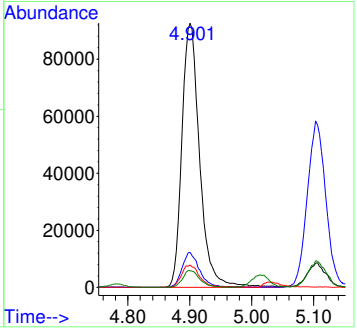


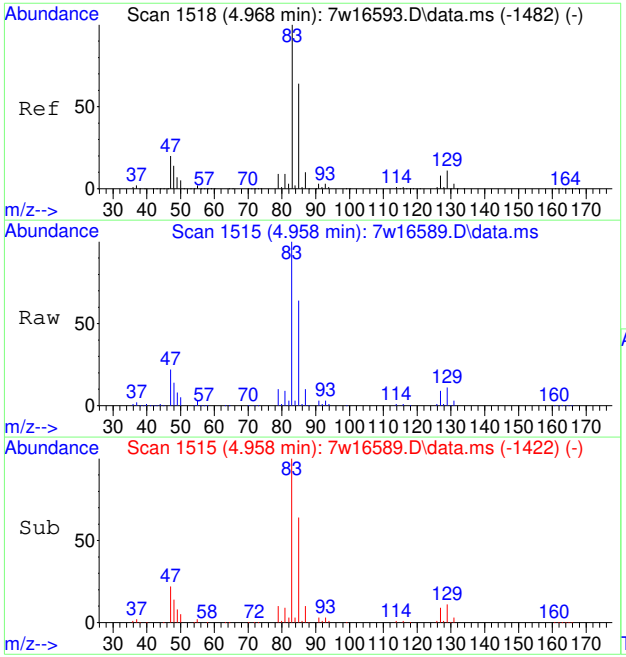


#58
ETHYL ACRYLATE
Concen: 5.03 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 55 Resp: 184653

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.8	6.6	12.2
99	6.2	6.2	11.6#

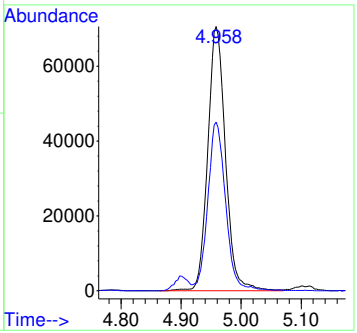


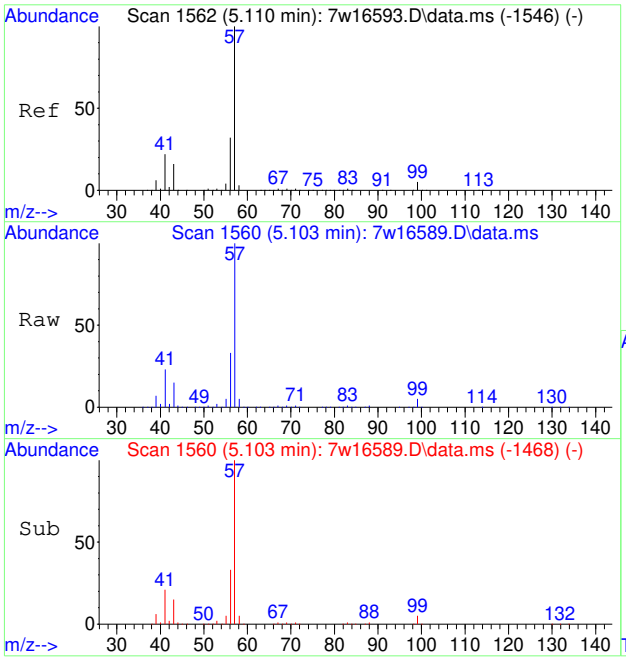


#59
BROMODICHLOROMETHANE
Concen: 4.78 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 145254

Ion	Ratio	Lower	Upper
83	100		
85	64.4	44.9	83.5

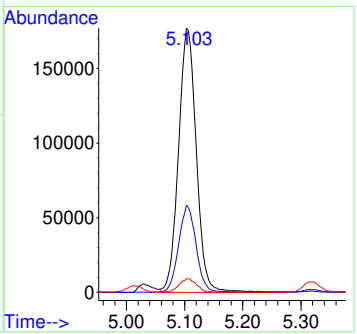


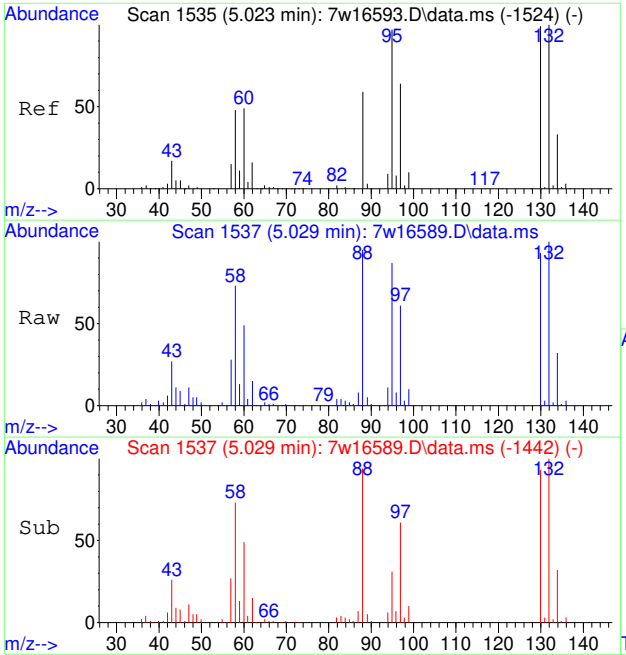


#60
2,2,4-TRIMETHYLPENTANE
Concen: 4.91 PPBV
RT: 5.103 min Scan# 1560
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 57 Resp: 376202

Ion	Ratio	Lower	Upper
57	100		
56	32.4	24.4	45.2
99	5.1	5.2	9.6#

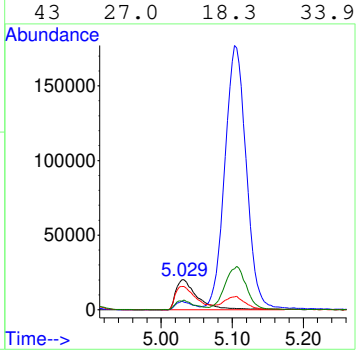


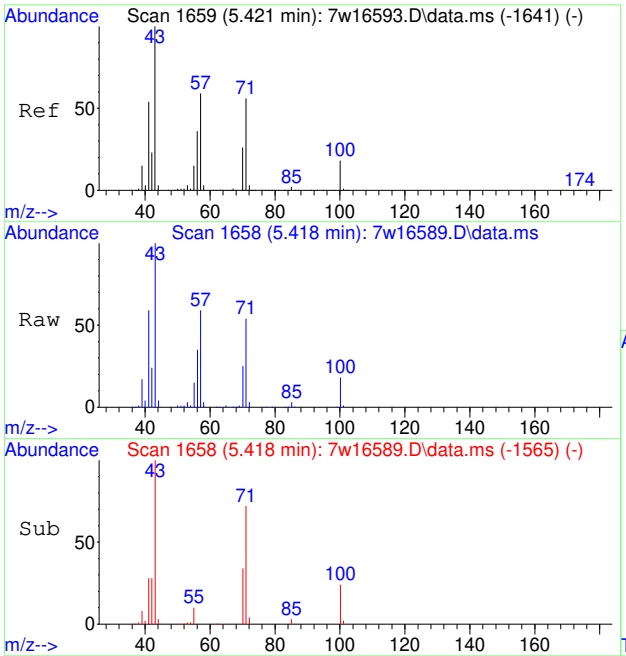


#61
1,4-DIOXANE
Concen: 4.76 PPBV
RT: 5.029 min Scan# 1537
Delta R.T. 0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 88 Resp: 43182

Ion	Ratio	Lower	Upper
88	100		
57	22.6	13.1	24.3
58	75.6	39.1	72.5#
43	27.0	18.3	33.9

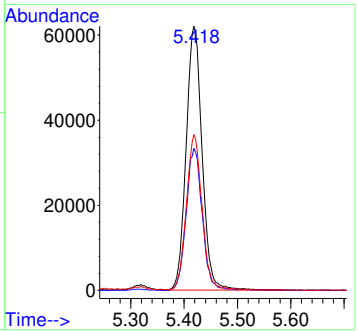


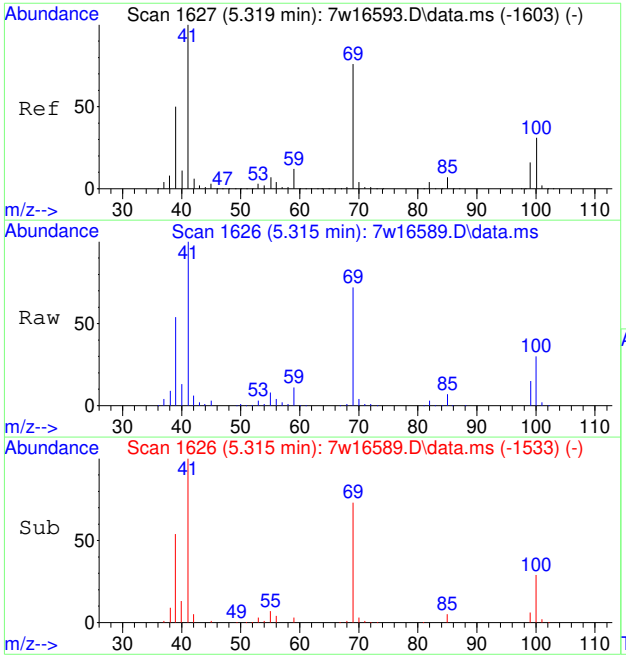


#62
HEPTANE
Concen: 5.06 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 129447

Ion	Ratio	Lower	Upper
43	100		
71	54.3	45.0	83.6
57	58.0	37.2	69.0

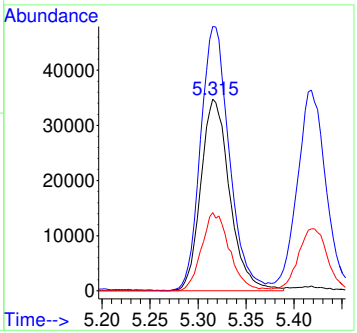


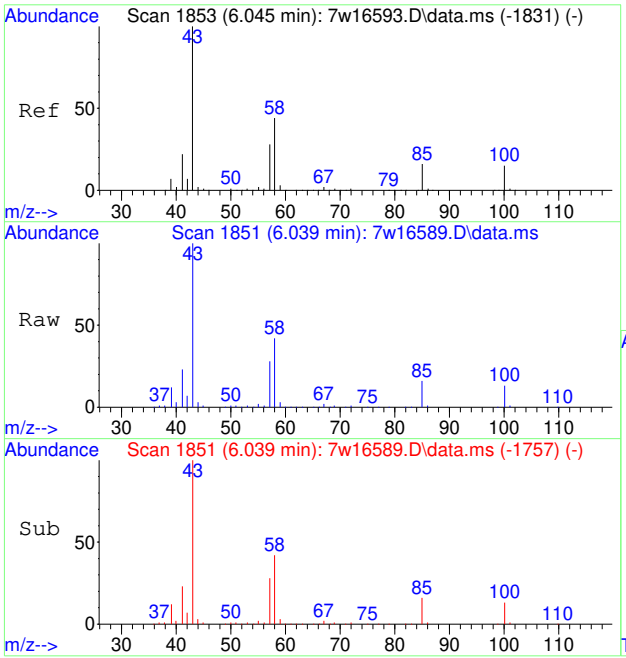


#63
METHYL METHACRYLATE
Concen: 4.95 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 72765

Ion	Ratio	Lower	Upper
69	100		
41	136.6	84.3	156.5
100	39.7	30.8	57.2

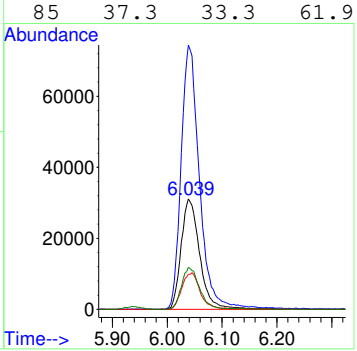


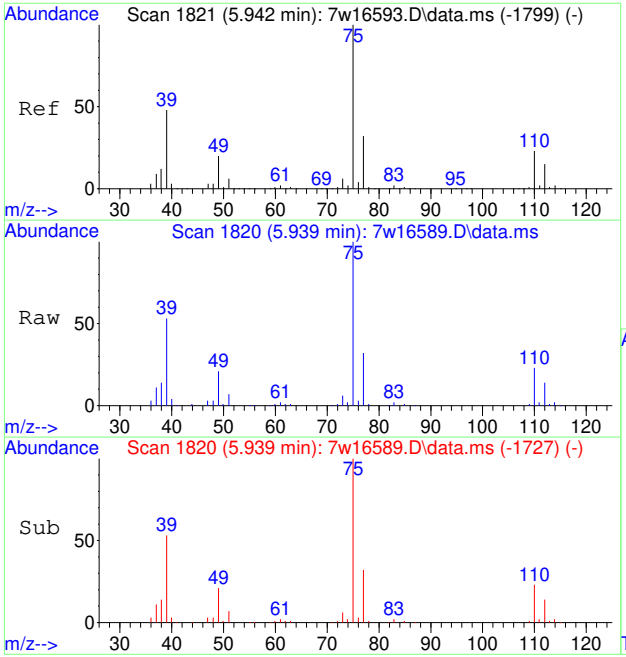


#64
METHYL ISOBUTYL KETONE
Concen: 4.88 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 73624

Ion	Ratio	Lower	Upper
58	100		
43	236.1	193.8	360.0
100	33.1	32.8	60.8
85	37.3	33.3	61.9

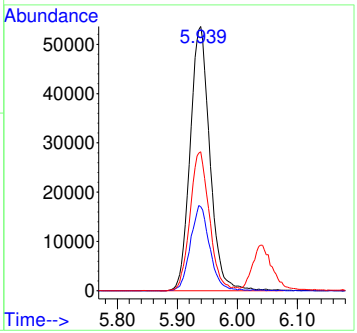


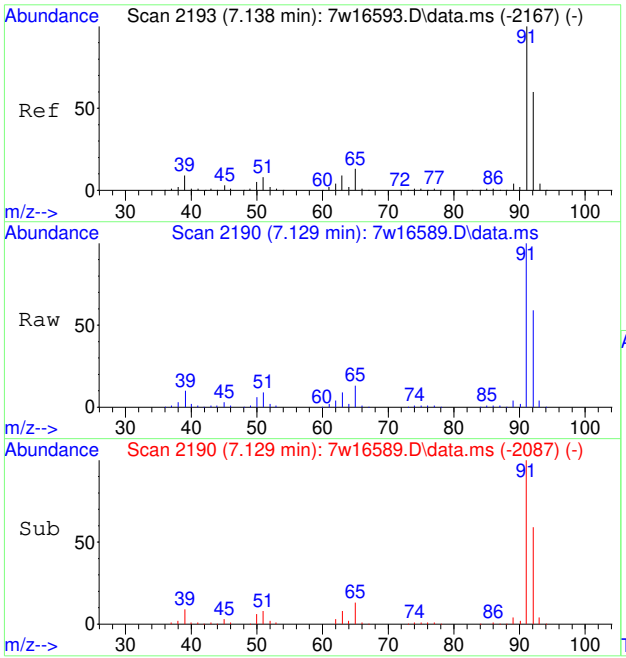


#65
CIS-1,3-DICHLOROPROPENE
Concen: 4.78 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 122774

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.8	38.5	71.5

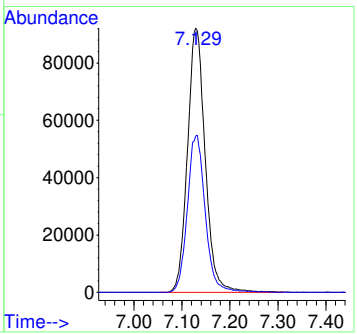


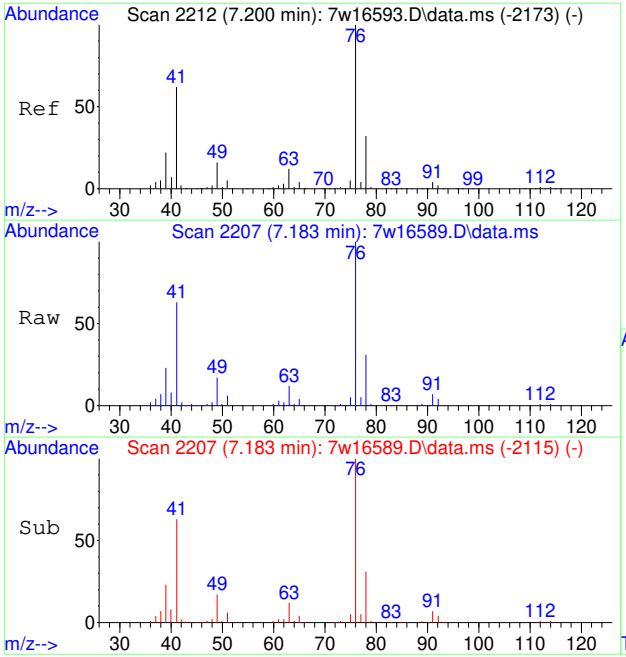


#66
TOLUENE
Concen: 5.09 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 237199

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

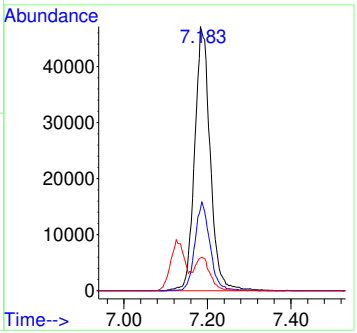


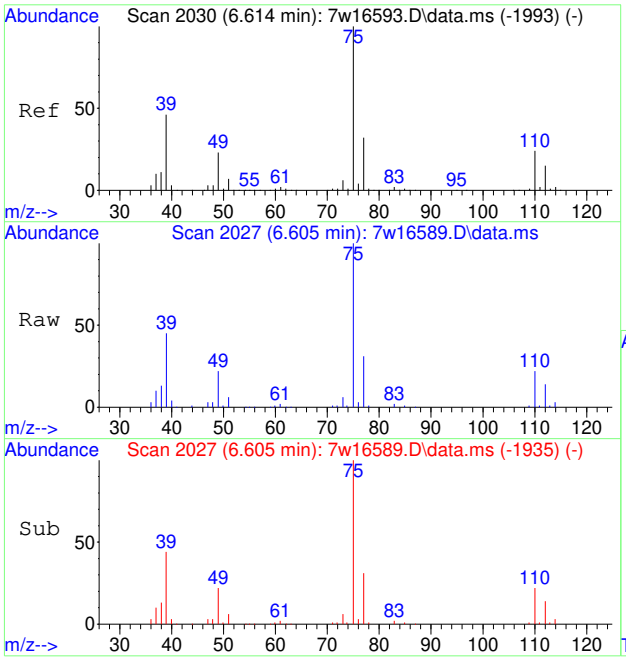


#67
1,3-DICHLOROPROPANE
Concen: 5.06 PPBV
RT: 7.183 min Scan# 2207
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 76 Resp: 121971

Ion	Ratio	Lower	Upper
76	100		
78	32.7	22.1	41.1
63	12.0	8.0	14.8

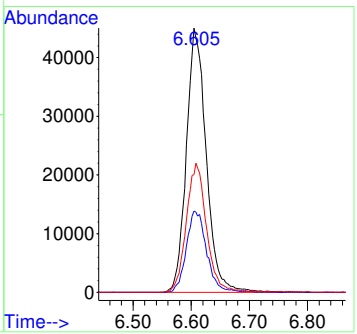


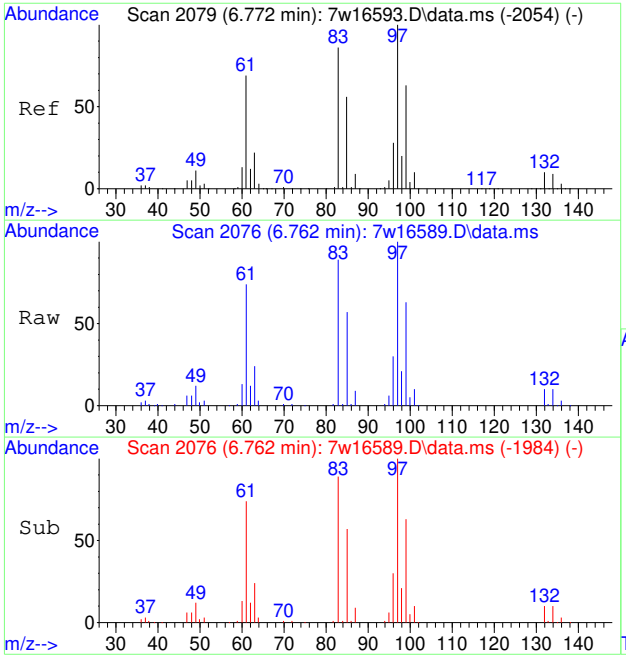


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 4.46 PPBV
RT: 6.605 min Scan# 2027
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 107017

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.5	41.7
39	50.0	37.2	69.0

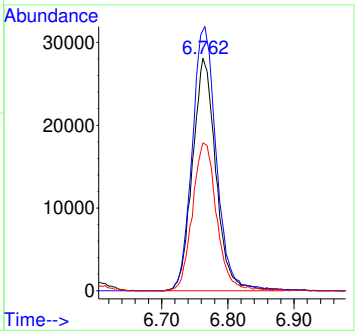


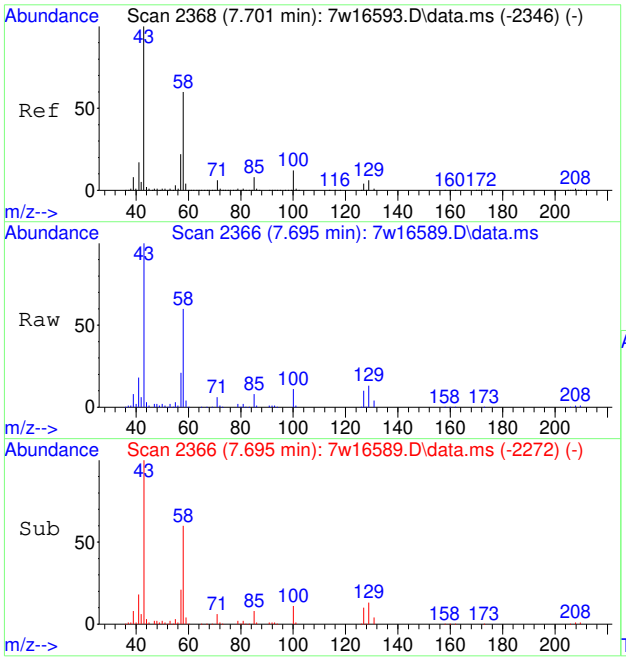


#69
1,1,2-TRICHLOROETHANE
Concen: 5.00 PPBV
RT: 6.762 min Scan# 2076
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 68995

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	65.6	45.5	84.5

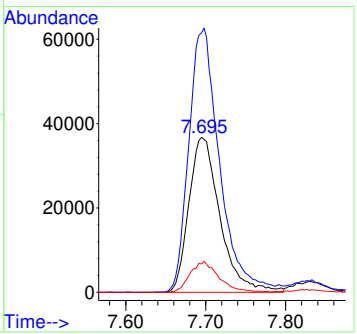


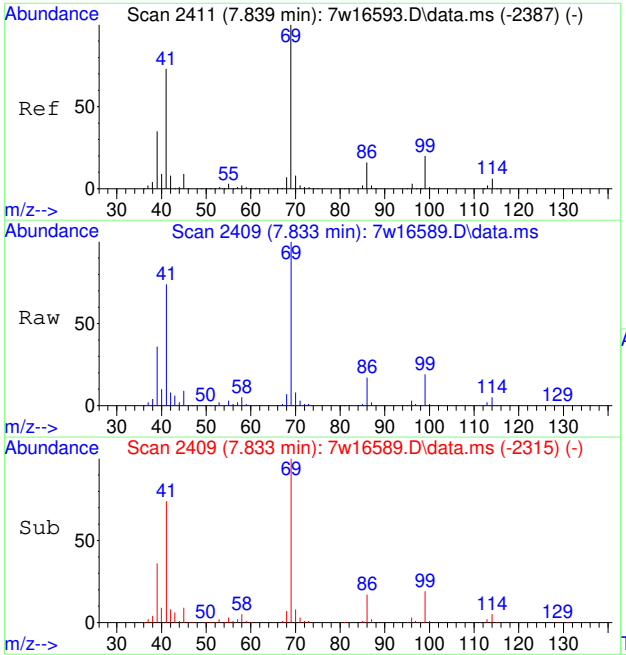


#70
2-HEXANONE
Concen: 5.01 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 58 Resp: 99491

Ion	Ratio	Lower	Upper
58	100		
43	169.1	141.7	263.3
100	18.7	18.9	35.1#

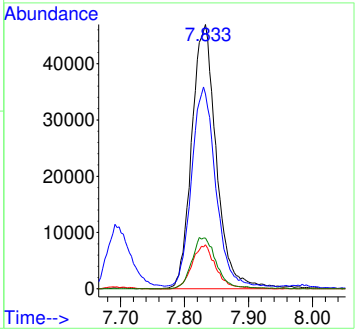


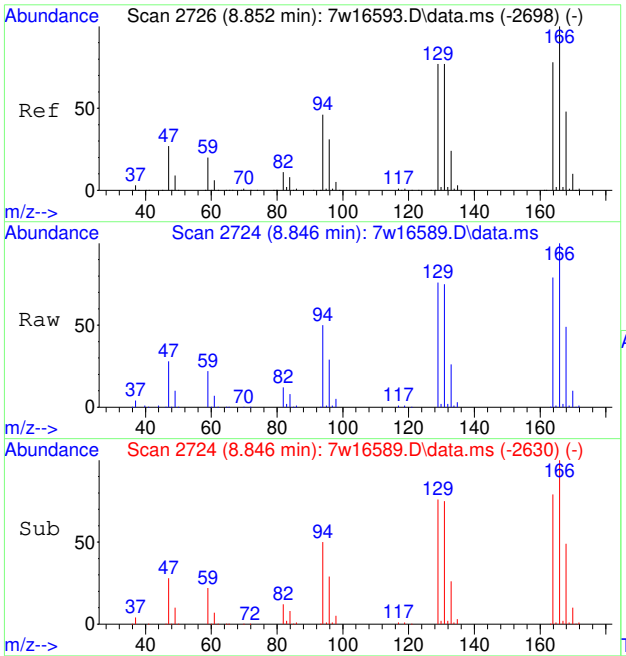


#71
ETHYL METHACRYLATE
Concen: 4.97 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 69 Resp: 125849

Ion	Ratio	Lower	Upper
69	100		
41	76.4	49.3	91.6
86	16.1	11.6	21.6
99	19.3	13.4	24.8

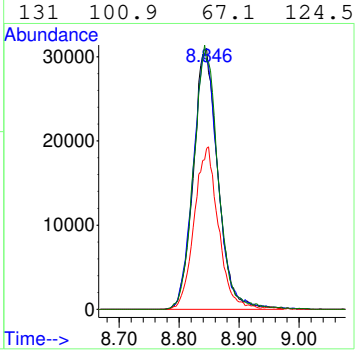


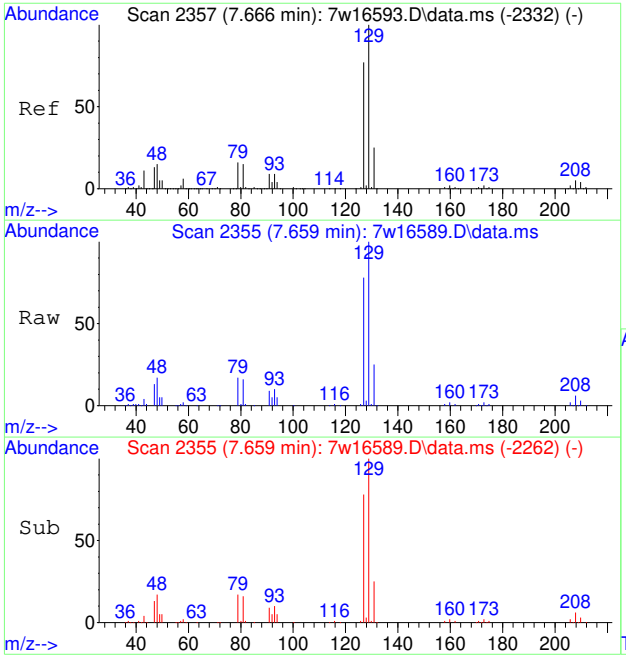


#72
TETRACHLOROETHENE
Concen: 5.13 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:164 Resp: 87888

Ion	Ratio	Lower	Upper
164	100		
129	100.6	69.7	129.5
168	61.3	43.4	80.6
131	100.9	67.1	124.5

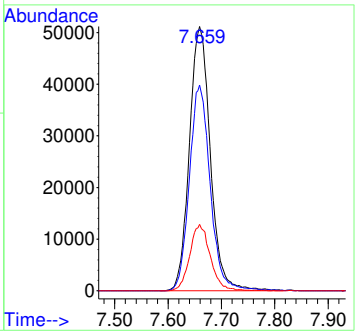


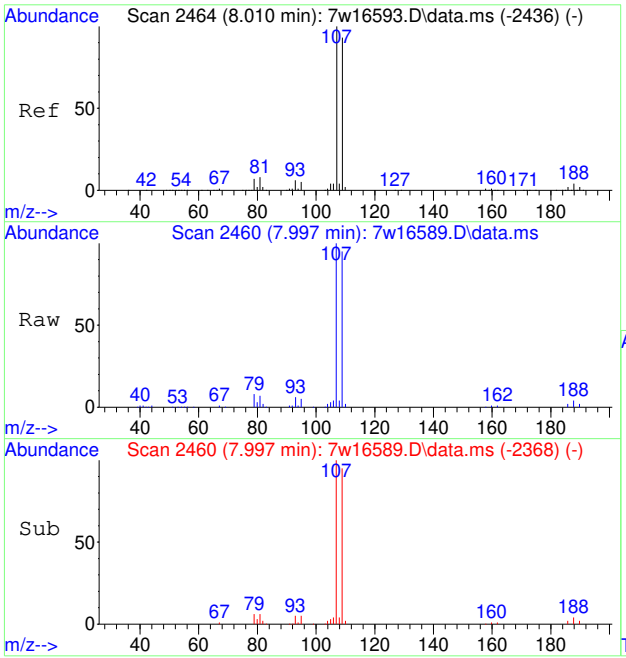


#73
DIBROMOCHLOROMETHANE
Concen: 4.88 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:129 Resp: 139976

Ion	Ratio	Lower	Upper
129	100		
127	77.4	53.0	98.4
131	24.6	16.9	31.3

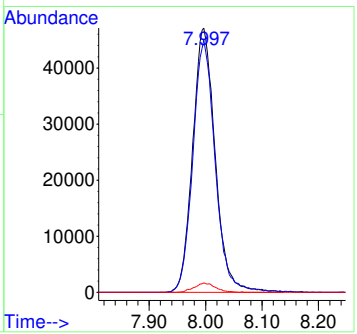


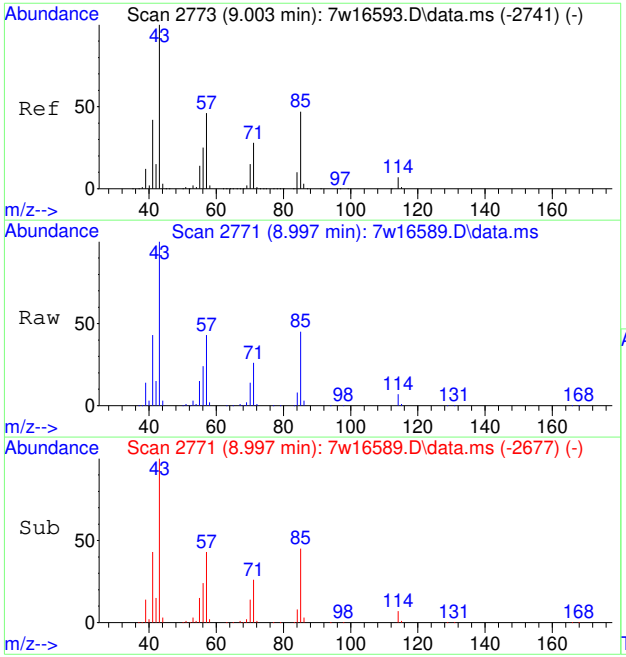


#74
1,2-DIBROMOETHANE
Concen: 5.30 PPBV
RT: 7.997 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:107 Resp: 130464

Ion	Ratio	Lower	Upper
107	100		
109	94.7	65.7	122.1
188	3.4	2.4	4.4

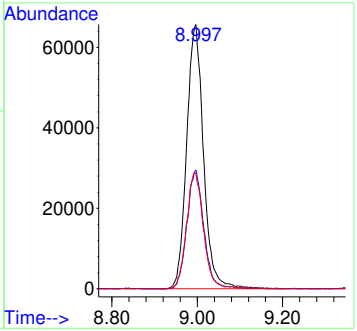


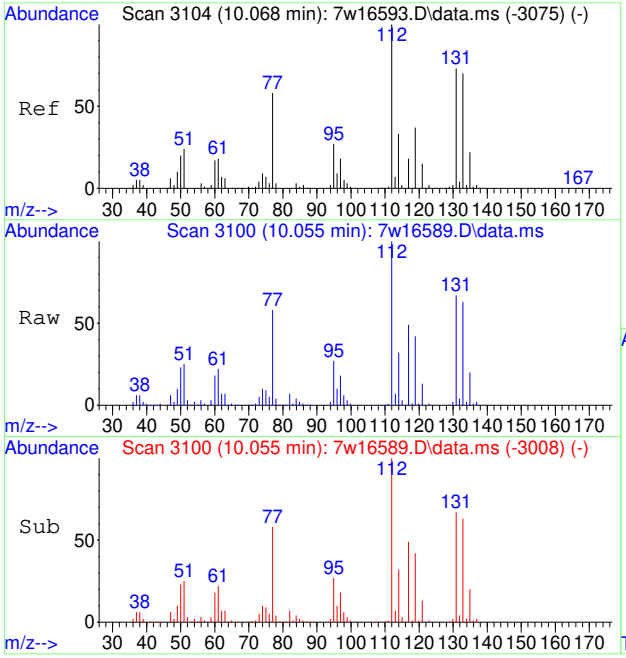


#75
OCTANE
Concen: 5.16 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 180997

Ion	Ratio	Lower	Upper
43	100		
85	45.1	36.5	67.9
57	44.3	27.6	51.2

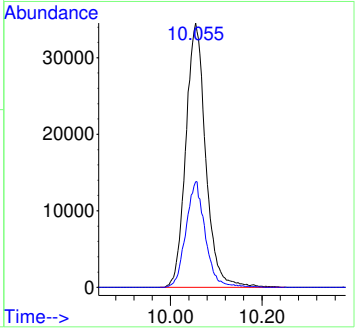


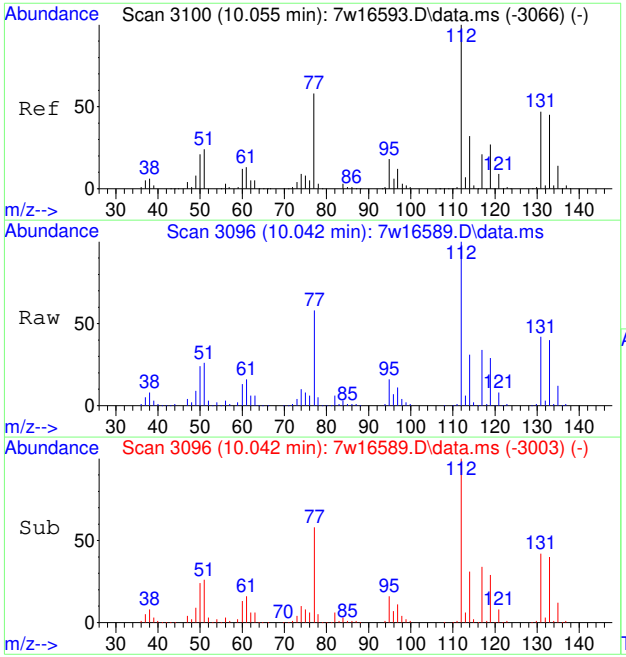


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 5.17 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:131 Resp: 104080

Ion	Ratio	Lower	Upper
131	100		
95	39.0	23.7	43.9

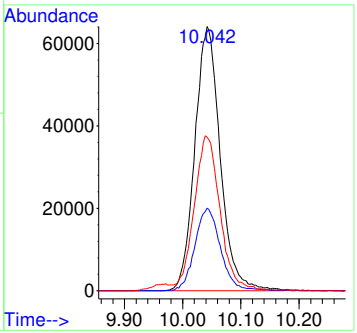


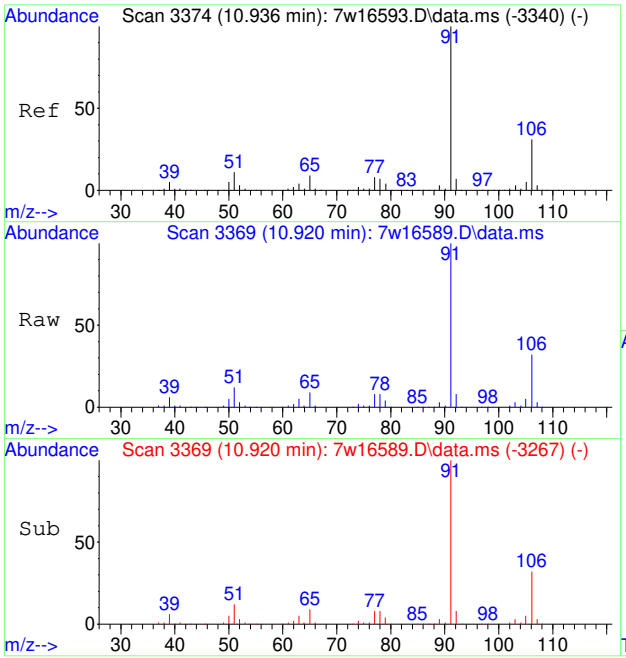


#78
CHLOROBENZENE
Concen: 5.29 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:112 Resp: 194976

Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.9	42.5
77	60.2	34.4	63.8

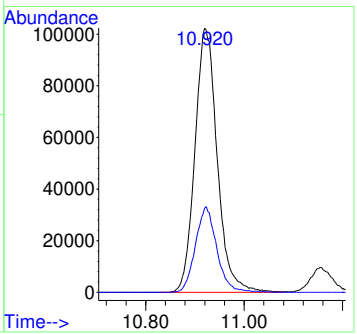


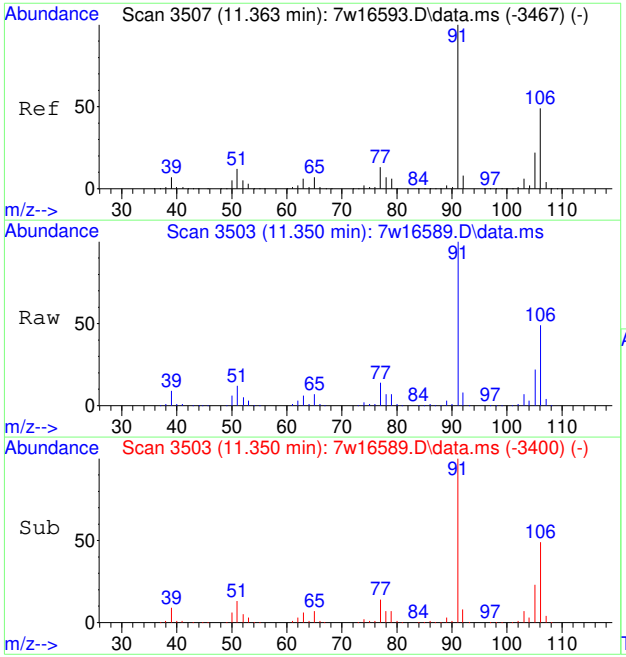


#79
ETHYLBENZENE
Concen: 5.30 PPBV
RT: 10.920 min Scan# 3369
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 322003

Ion	Ratio	Lower	Upper
91	100		
106	31.2	2.8	62.8

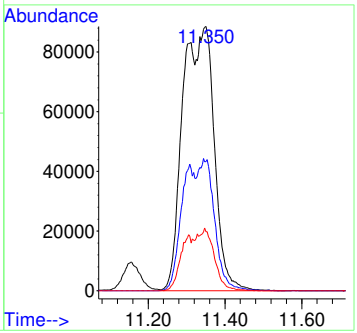


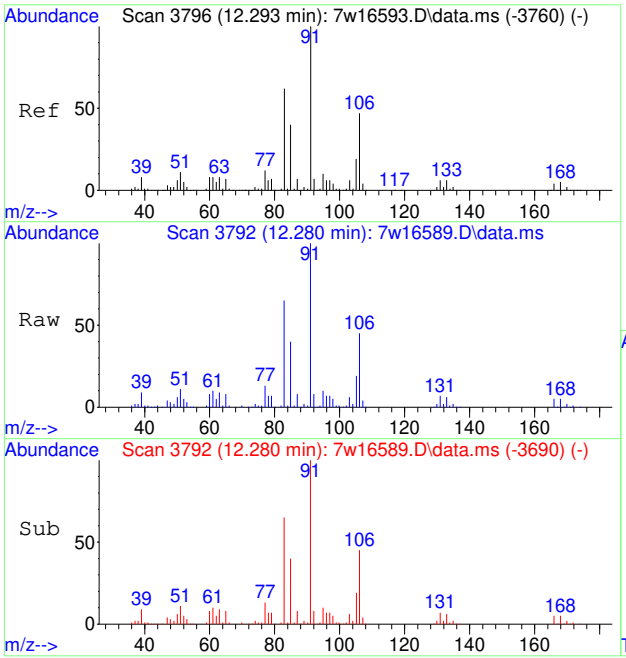


#80
M,P-XYLENE
Concen: 10.38 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 506054

Ion	Ratio	Lower	Upper
91	100		
106	28.2	0.0	58.7
105	12.9	0.0	43.2

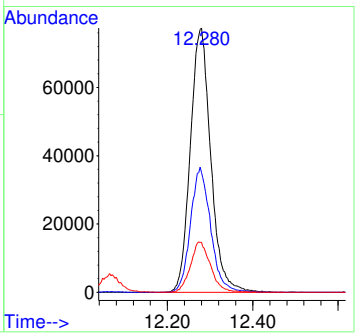


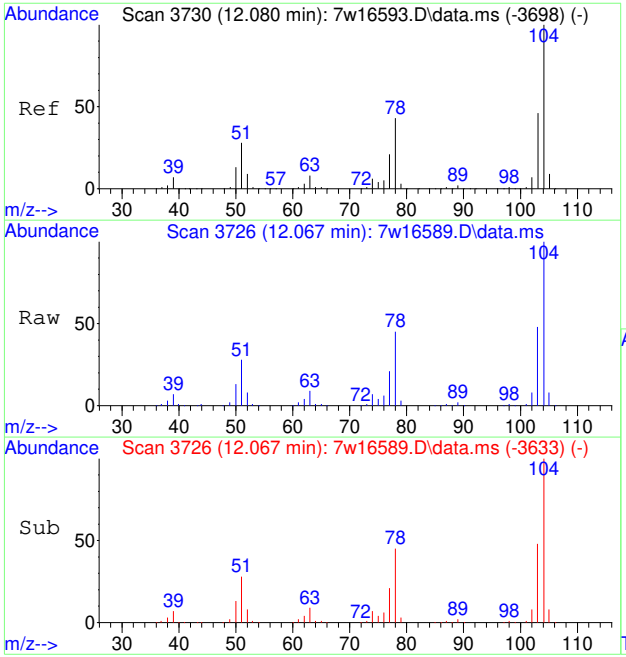


#81
O-XYLENE
Concen: 5.40 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 257748

Ion	Ratio	Lower	Upper
91	100		
106	45.3	34.1	63.3
105	19.0	14.6	27.2

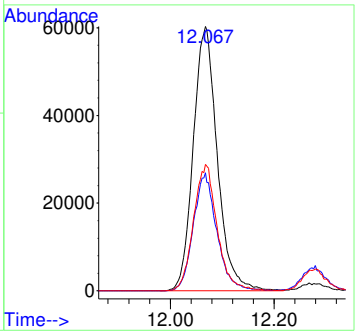


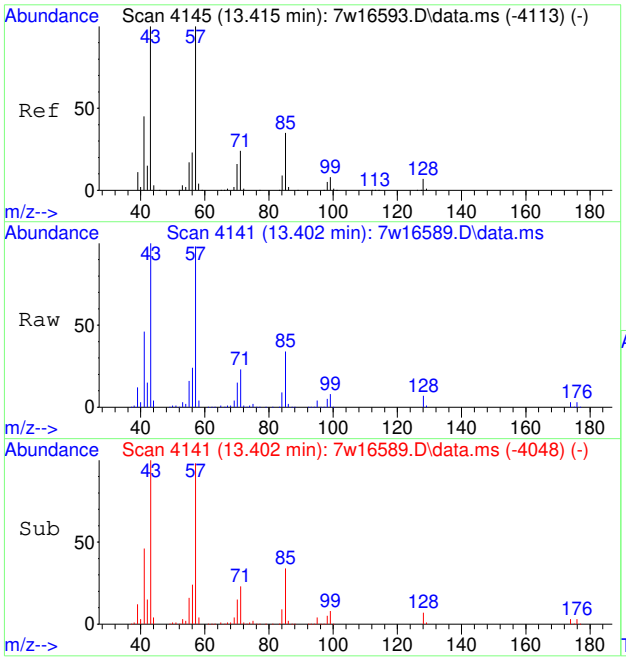


#82
STYRENE
Concen: 5.23 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:104 Resp: 194546

Ion	Ratio	Lower	Upper
104	100		
78	43.5	25.3	46.9
103	47.1	33.2	61.7

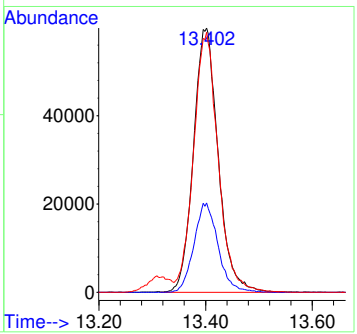


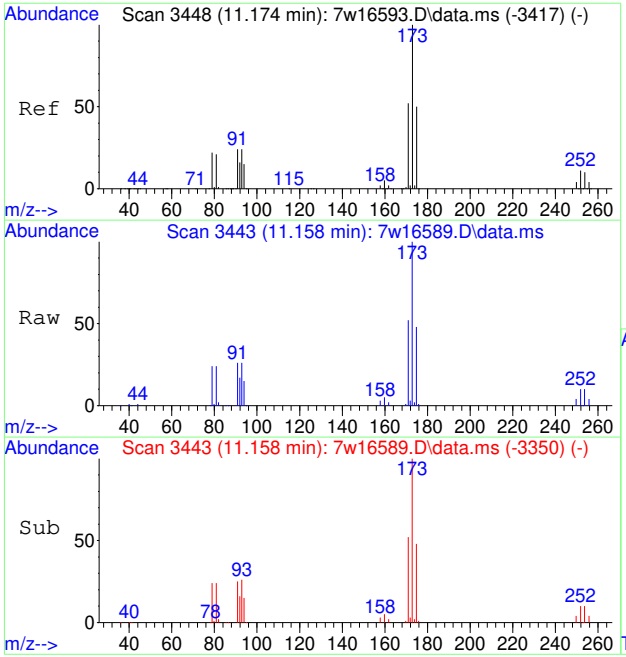


#83
NONANE
Concen: 5.27 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 43 Resp: 192916

Ion	Ratio	Lower	Upper
43	100		
85	33.0	27.6	51.2
57	98.1	56.4	104.7

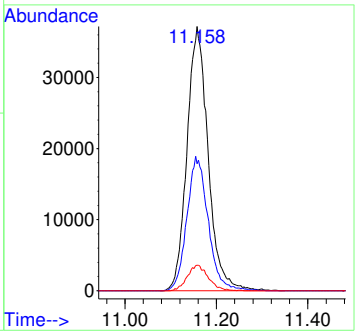


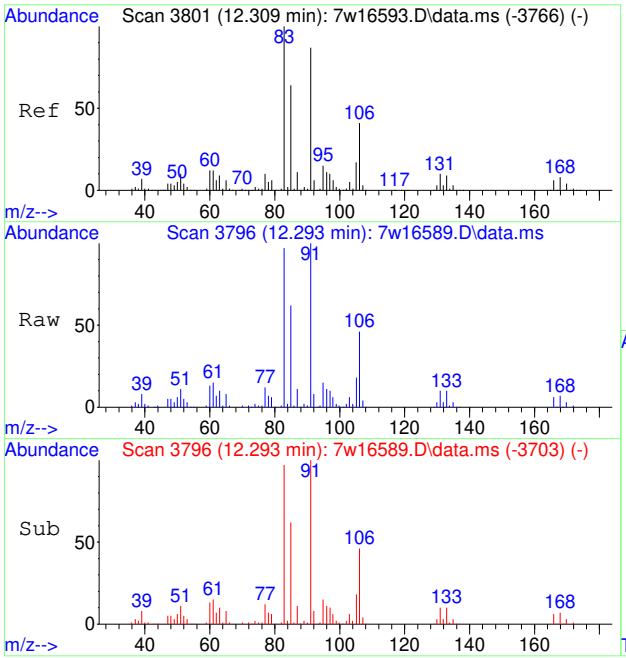


#84
BROMOFORM
Concen: 4.90 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:173 Resp: 119167

Ion	Ratio	Lower	Upper
173	100		
175	51.2	33.0	61.4
254	9.7	5.9	10.9

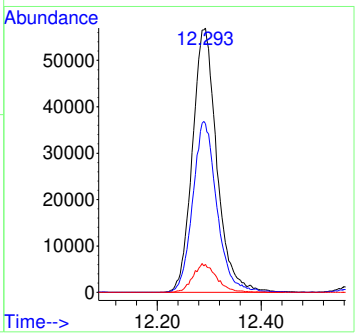


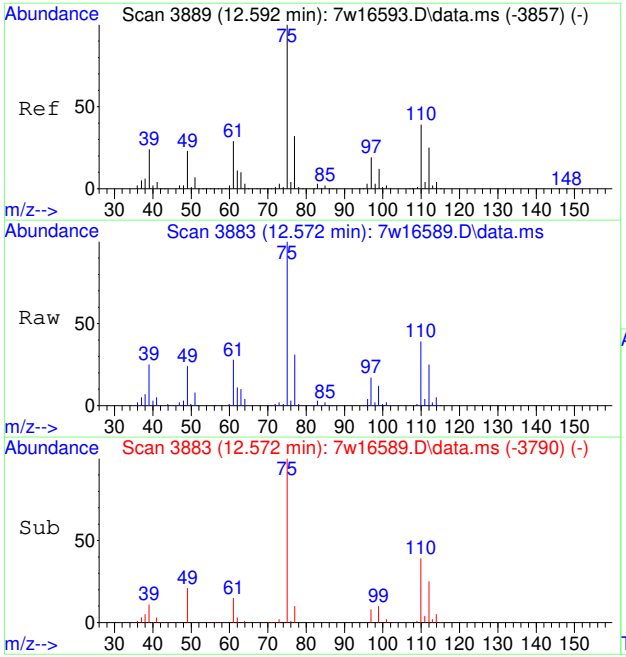


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 5.35 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 83 Resp: 186265

Ion	Ratio	Lower	Upper
83	100		
85	64.3	44.6	82.8
131	10.6	8.0	14.8

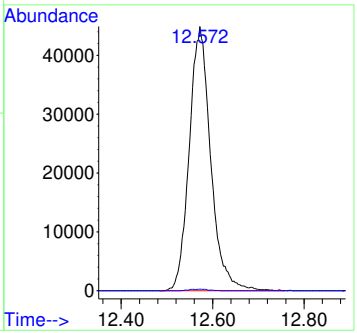


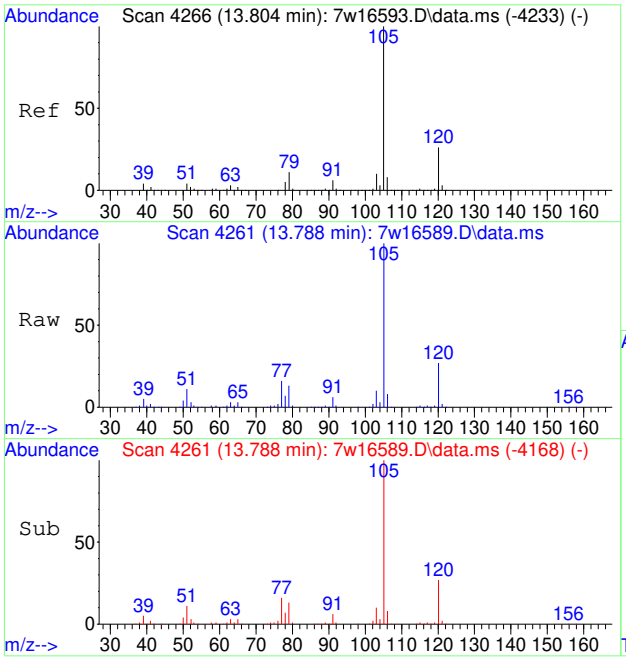


#86
1,2,3-TRICHLOROPROPANE
Concen: 5.34 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 75 Resp: 146270

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

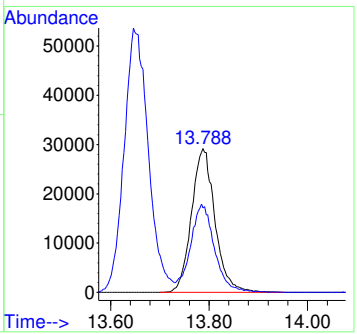


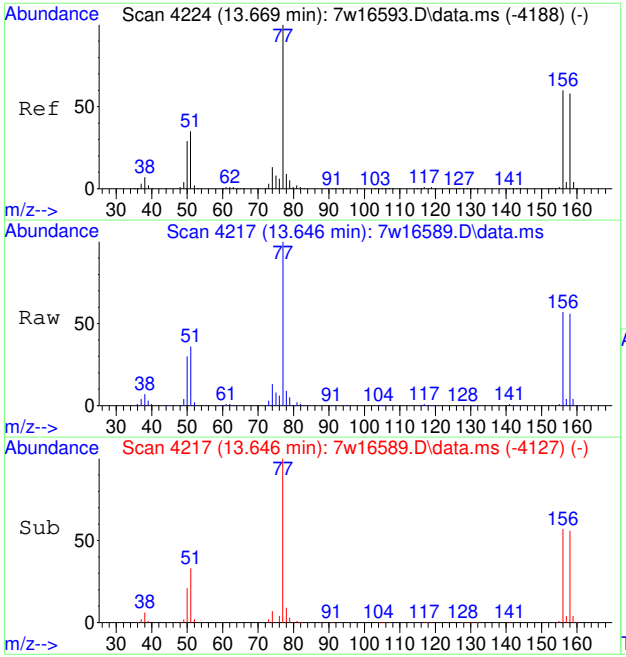


#88
ISOPROPYLBENZENE
Concen: 5.28 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 96509

Ion	Ratio	Lower	Upper
120	100		
77	62.3	36.0	67.0

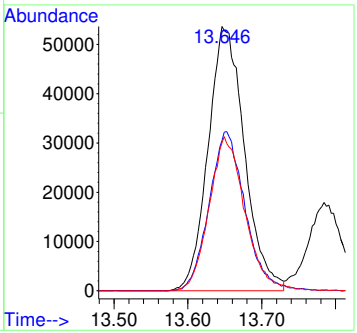


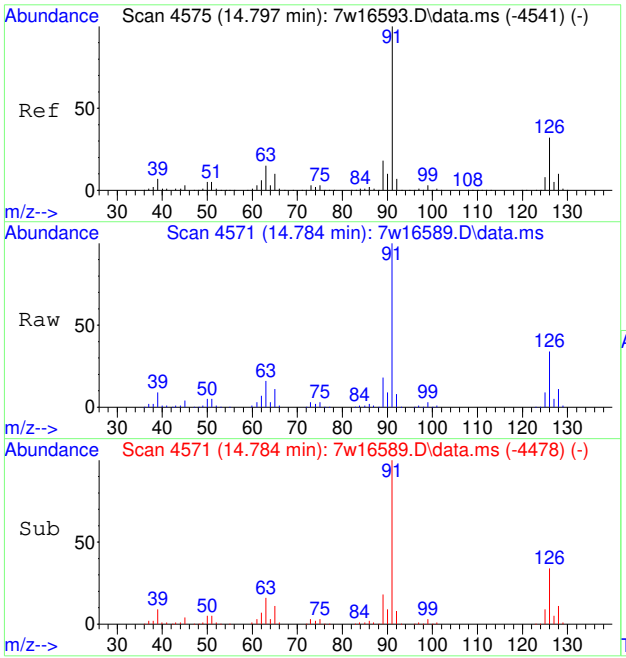


#89
BROMOBENZENE
Concen: 5.30 PPBV
RT: 13.646 min Scan# 4217
Delta R.T. -0.010 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 77 Resp: 183496

Ion	Ratio	Lower	Upper
77	100		
156	59.7	57.9	107.5
158	57.4	55.7	103.5

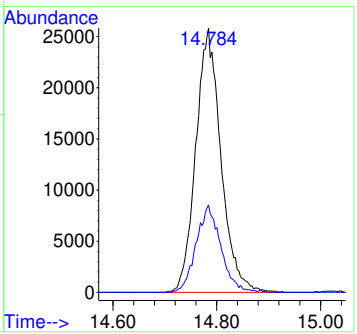


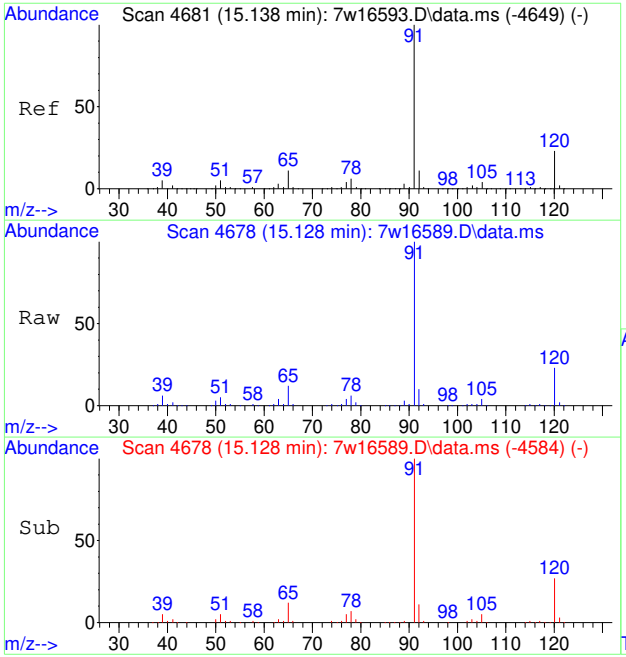


#90
2-CHLOROTOLUENE
Concen: 5.02 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:126 Resp: 86951

Ion	Ratio	Lower	Upper
126	100		
128	32.5	22.7	42.1

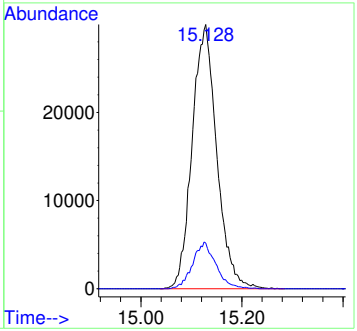


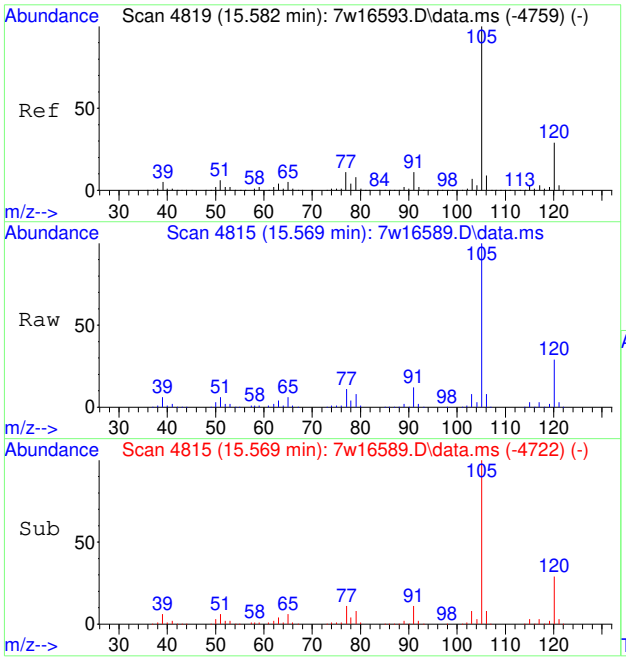


#91
N-PROPYLBENZENE
Concen: 5.12 PPBV
RT: 15.128 min Scan# 4678
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:120 Resp: 101472

Ion	Ratio	Lower	Upper
120	100		
105	16.7	10.6	19.6

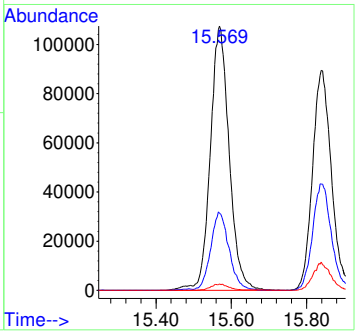


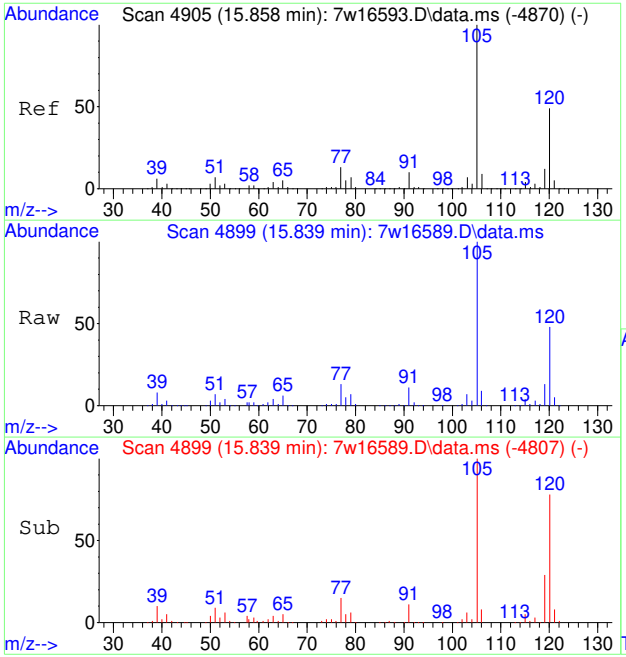


#92
4-ETHYLTOLUENE
Concen: 5.20 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 373811

Ion	Ratio	Lower	Upper
105	100		
120	29.3	21.8	40.4
119	2.4	1.7	3.1

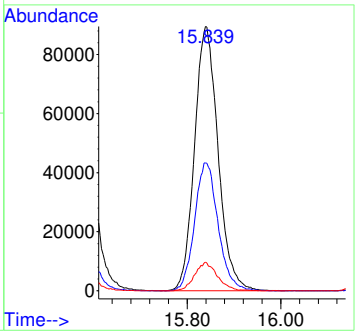


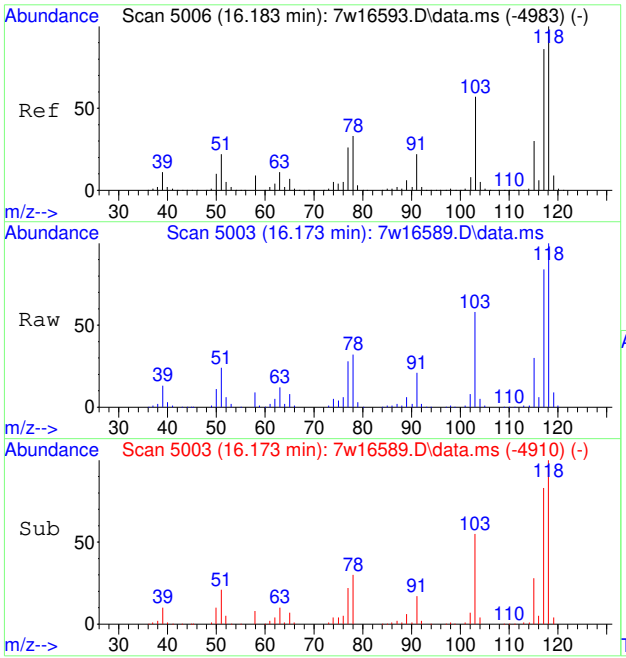


#93
1,3,5-TRIMETHYLBENZENE
Concen: 5.22 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 312677

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.5	7.5	13.9

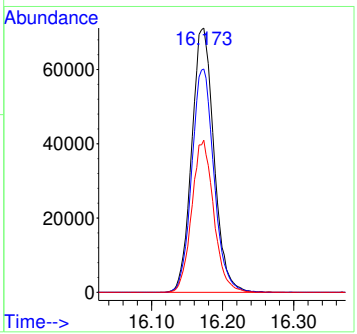


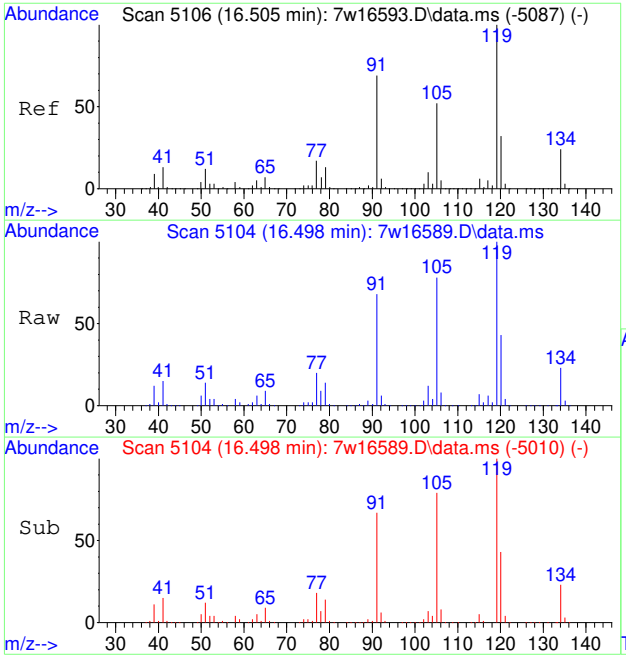


#94
ALPHA-METHYLSTYRENE
Concen: 5.06 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:118 Resp: 154689

Ion	Ratio	Lower	Upper
118	100		
117	84.3	59.9	111.3
103	56.7	36.2	67.2

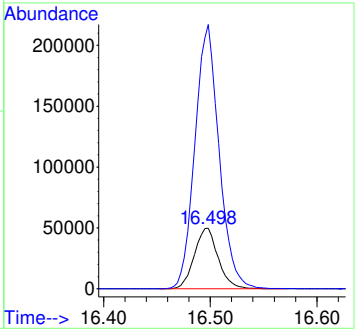


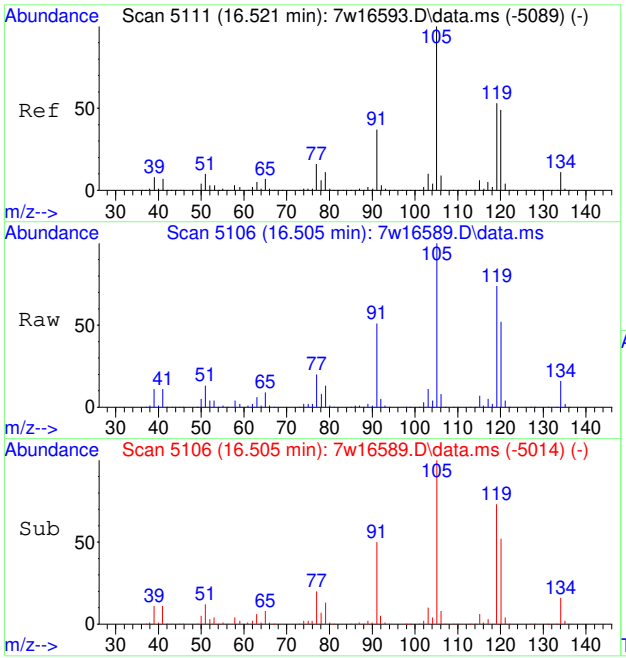


#95
TERT-BUTYLBENZENE
Concen: 5.33 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 77024

Ion	Ratio	Lower	Upper
134	100		
119	443.6	307.9	571.7

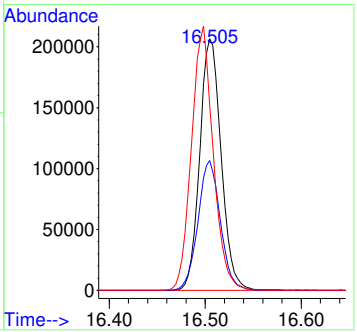


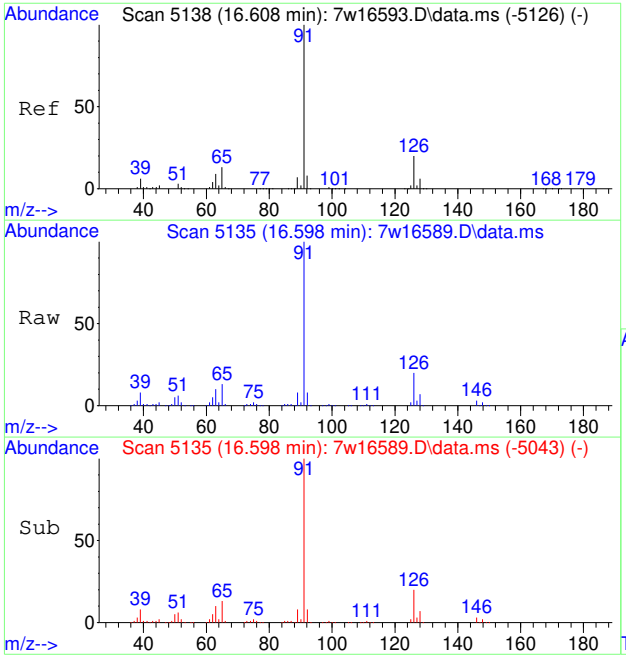


#96
1,2,4-TRIMETHYLBENZENE
Concen: 5.29 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 320531

Ion	Ratio	Lower	Upper
105	100		
120	53.9	40.9	75.9
119	106.6	78.0	144.8

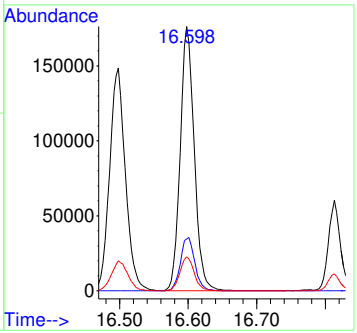


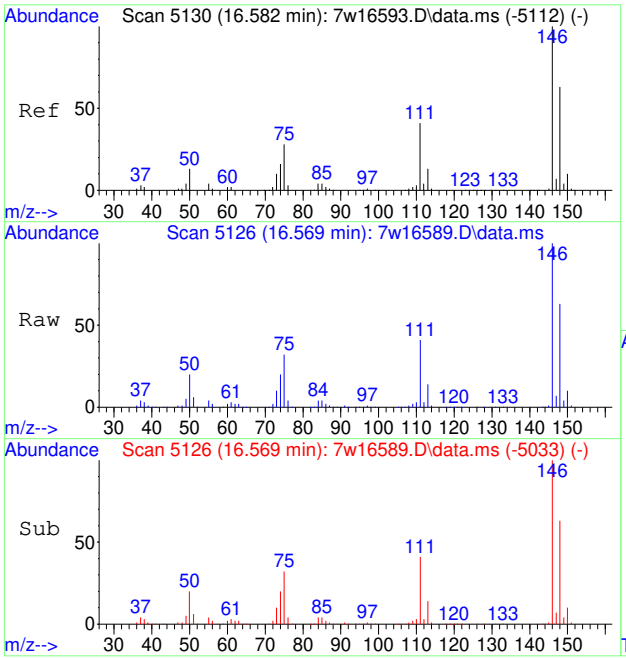


#97
BENZYL CHLORIDE
Concen: 4.80 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion: 91 Resp: 250636

Ion	Ratio	Lower	Upper
91	100		
126	20.7	17.2	32.0
65	13.1	7.3	13.7

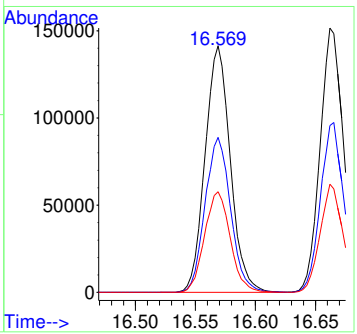


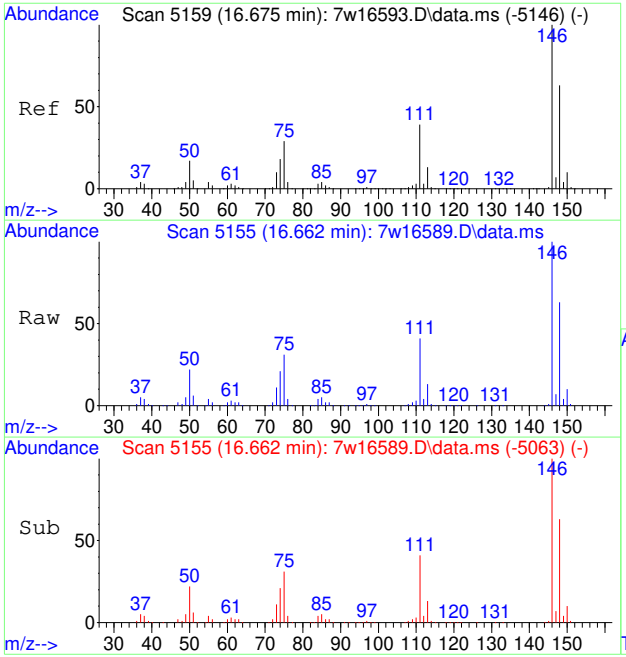


#98
M-DICHLOROBENZENE
Concen: 5.11 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 206691

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.7	25.4	47.2

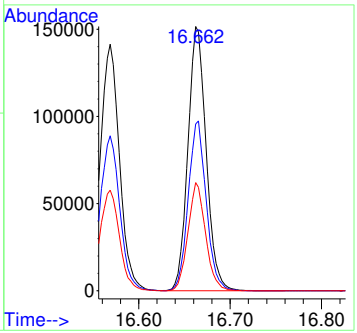


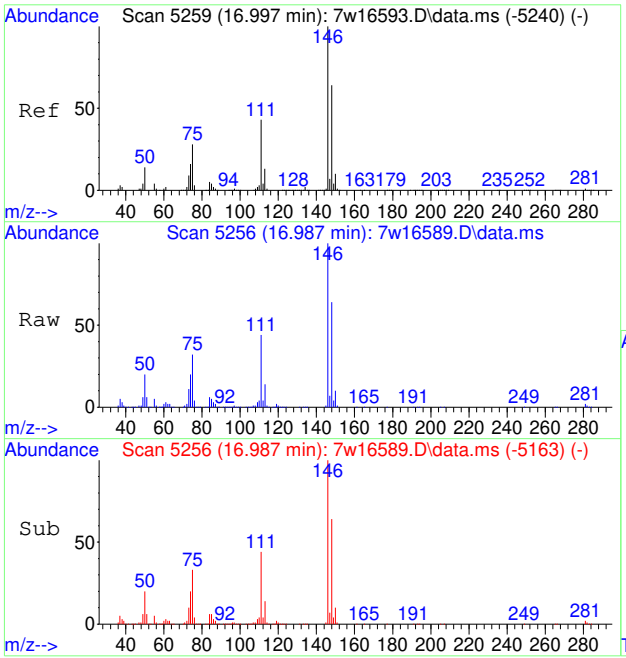


#99
P-DICHLOROBENZENE
Concen: 5.27 PPBV
RT: 16.662 min Scan# 5155
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 210041

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.7	82.9
111	39.5	24.8	46.1

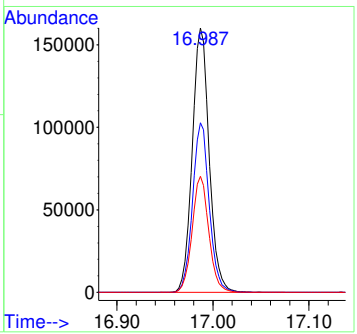


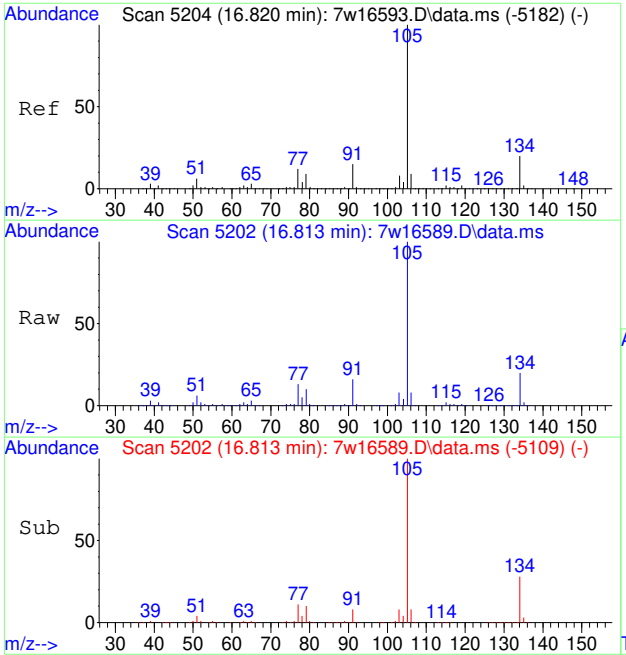


#100
O-DICHLOROBENZENE
Concen: 5.24 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:146 Resp: 196281

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.2	26.9	50.1

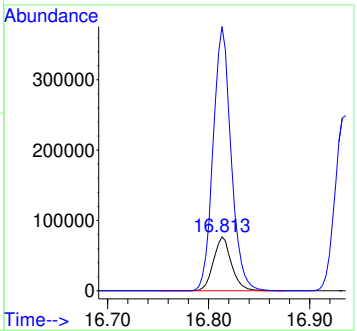


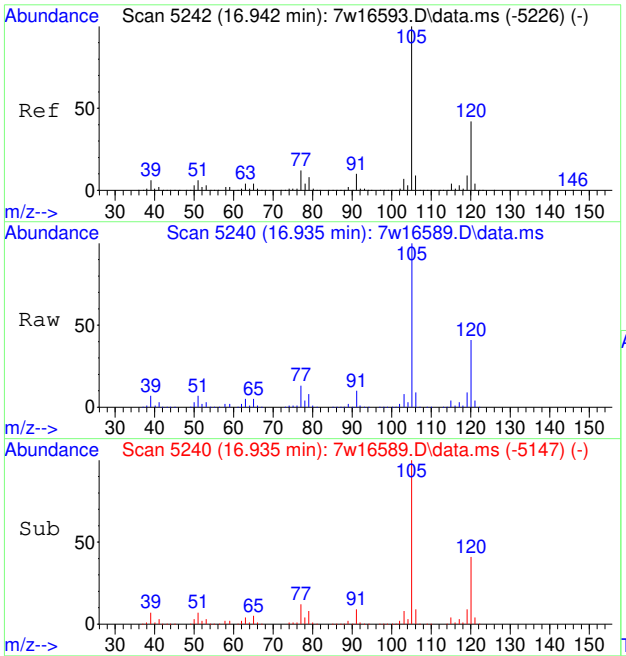


#101
SEC-BUTYLBENZENE
Concen: 5.43 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 94529

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

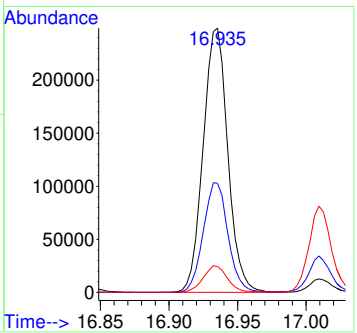


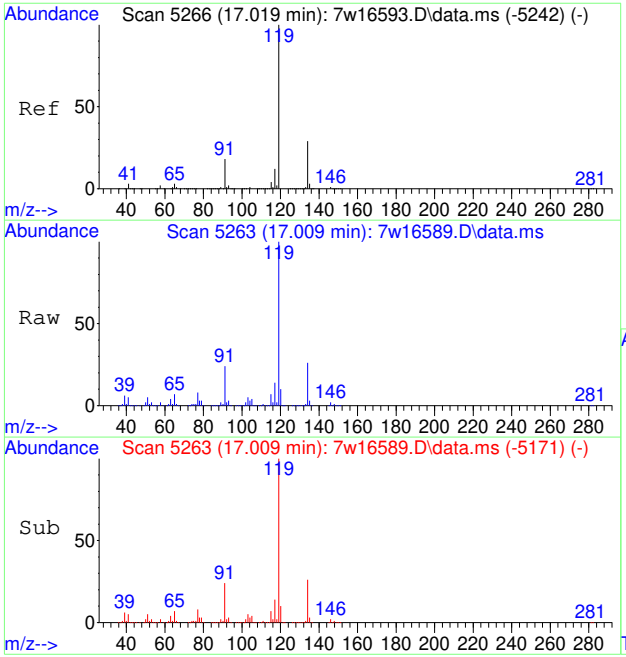


#102
1,2,3-TRIMETHYLBENZENE
Concen: 5.23 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:105 Resp: 310890

Ion	Ratio	Lower	Upper
105	100		
120	41.6	31.9	59.2
91	10.1	7.3	13.5

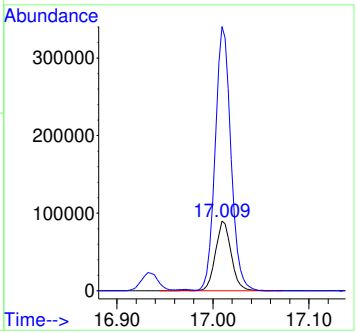


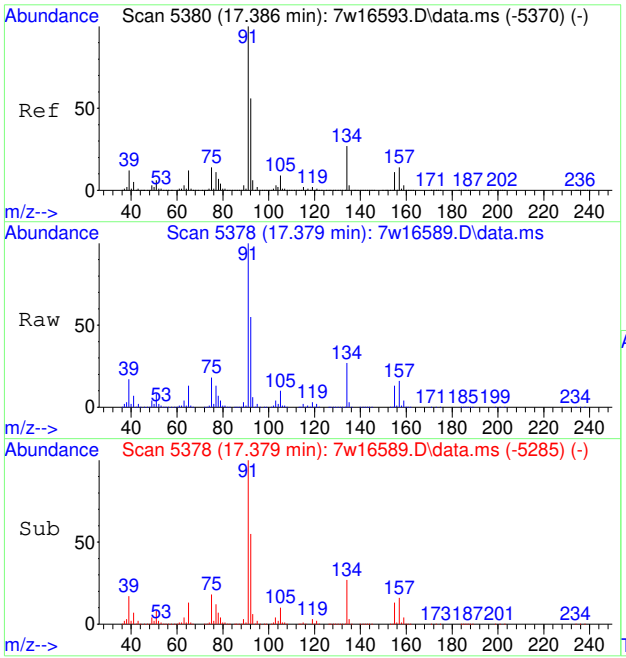


#103
P-ISOPROPYLTOLUENE
Concen: 5.24 PPBV
RT: 17.009 min Scan# 5263
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 102620

Ion	Ratio	Lower	Upper
134	100		
119	378.3	253.7	471.3

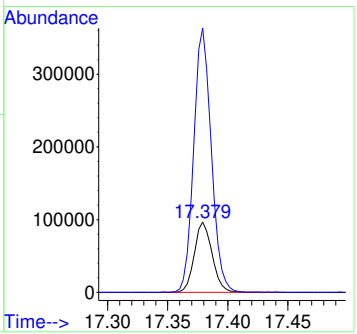


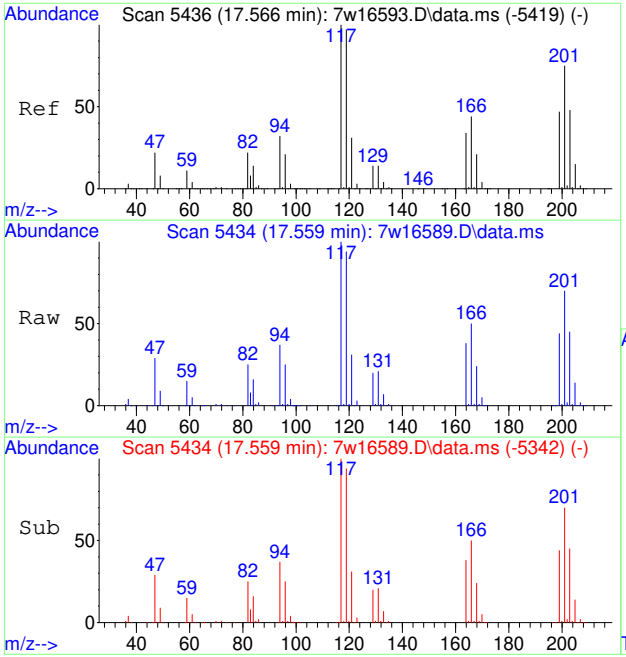


#104
N-BUTYLBENZENE
Concen: 5.28 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:134 Resp: 99471

Ion	Ratio	Lower	Upper
134	100		
91	373.3	231.1	429.1

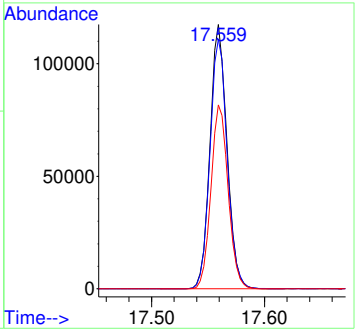


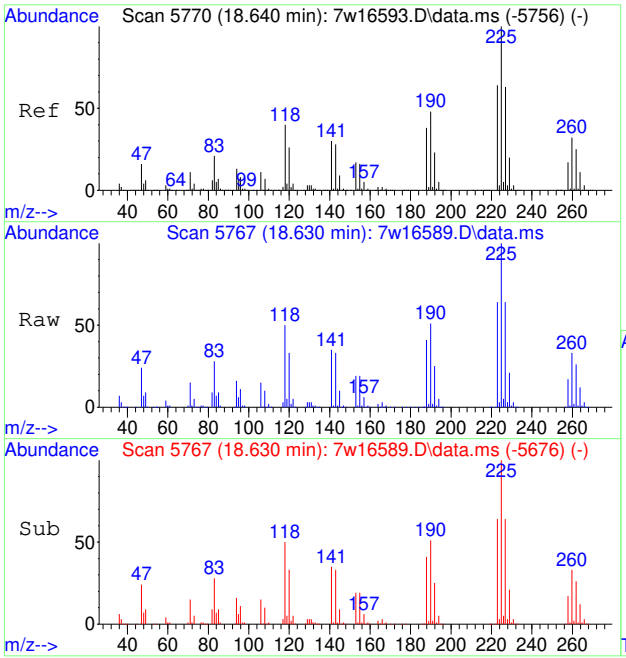


#105
HEXACHLOROETHANE
Concen: 5.22 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:117 Resp: 121985

Ion	Ratio	Lower	Upper
117	100		
119	96.3	68.3	126.9
201	70.5	45.9	85.3

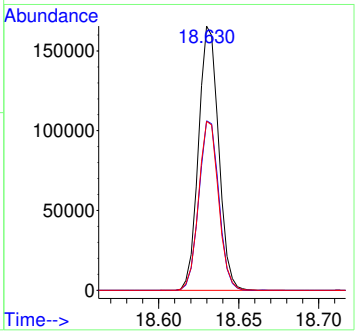


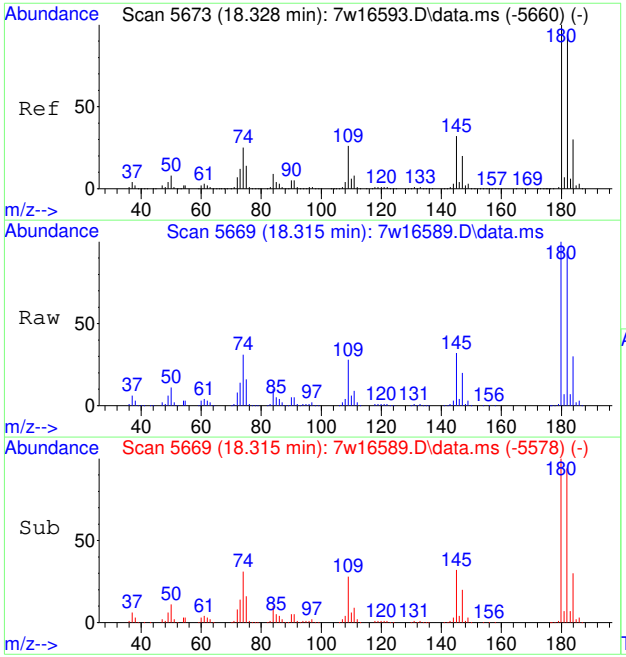


#106
HEXACHLOROBUTADIENE
Concen: 5.62 PPBV
RT: 18.630 min Scan# 5767
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:225 Resp: 144324

Ion	Ratio	Lower	Upper
225	100		
227	63.8	44.4	82.5
223	63.5	44.7	83.1

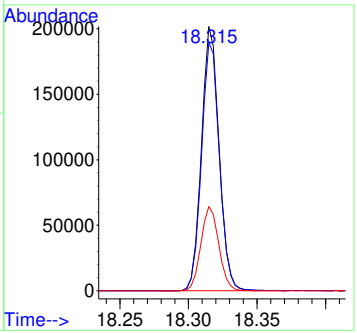


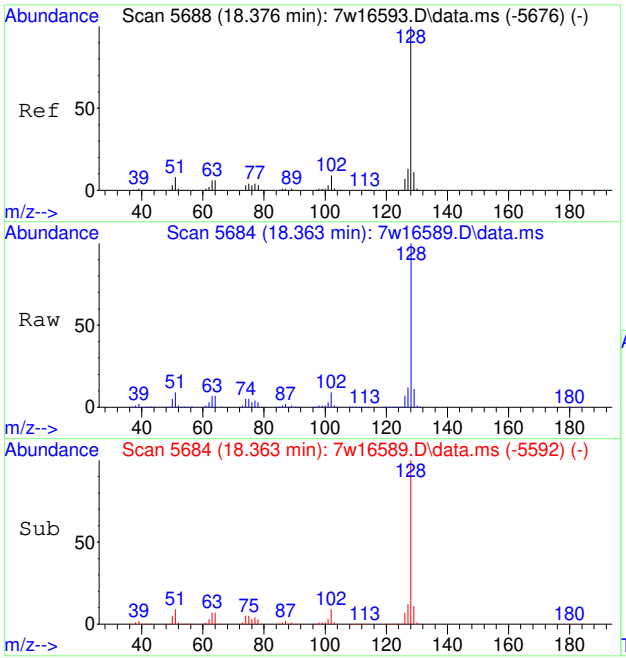


#107
1,2,4-TRICHLOROBENZENE
Concen: 5.43 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:180 Resp: 179655

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.5	23.1	42.9

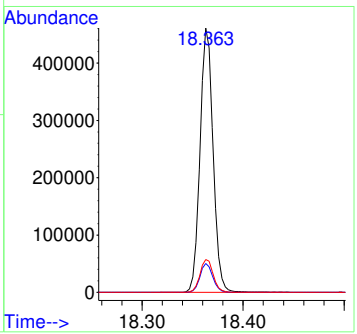


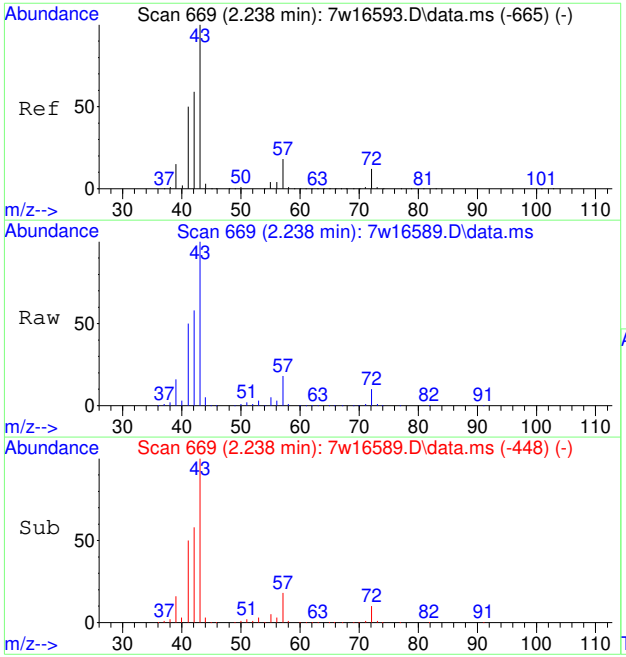


#108
NAPHTHALENE
Concen: 5.36 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:128 Resp: 413175

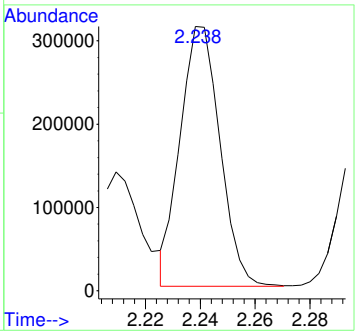
Ion	Ratio	Lower	Upper
128	100		
129	10.8	7.3	13.7
127	12.6	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 5.18 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16589.D
Acq: 7 Aug 2025 12:29 pm

Tgt Ion:TIC Resp: 315100



7.7.17

7

Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16589.D
Injection Time: 08/07/25 12:29

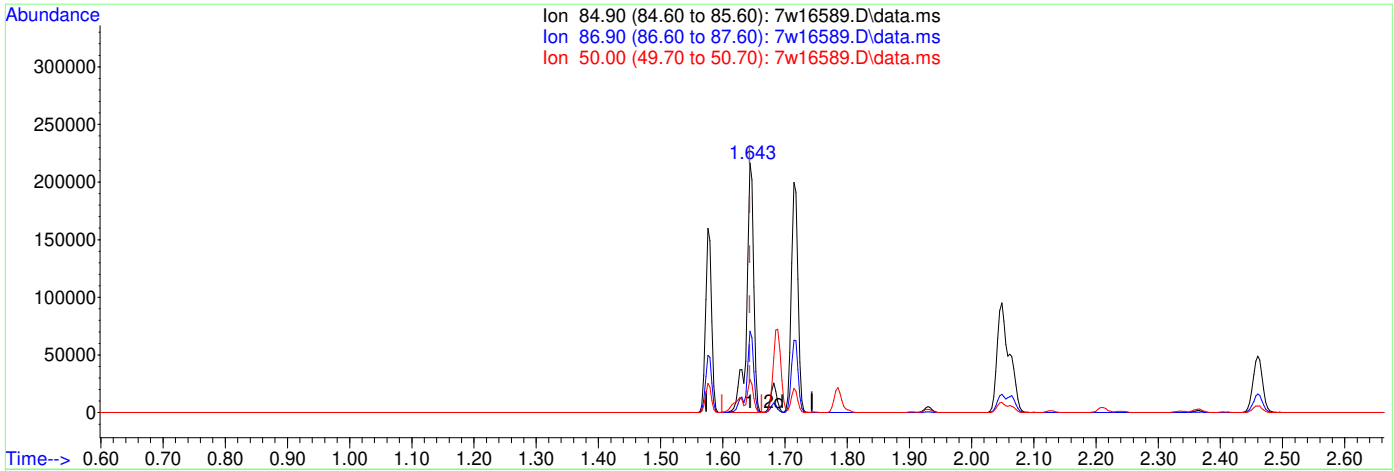
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

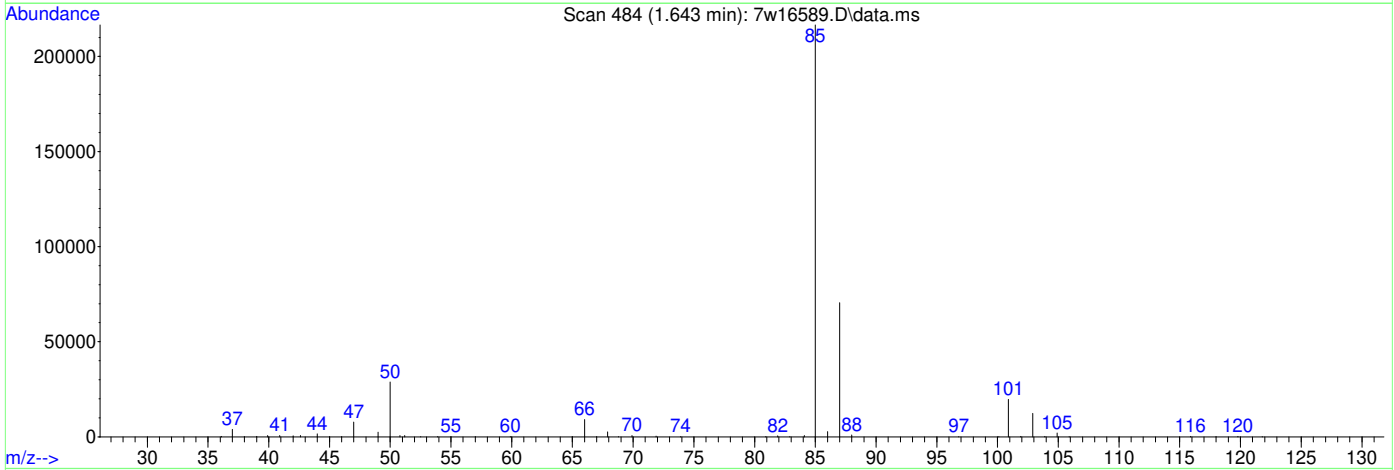
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 5.16PPBV

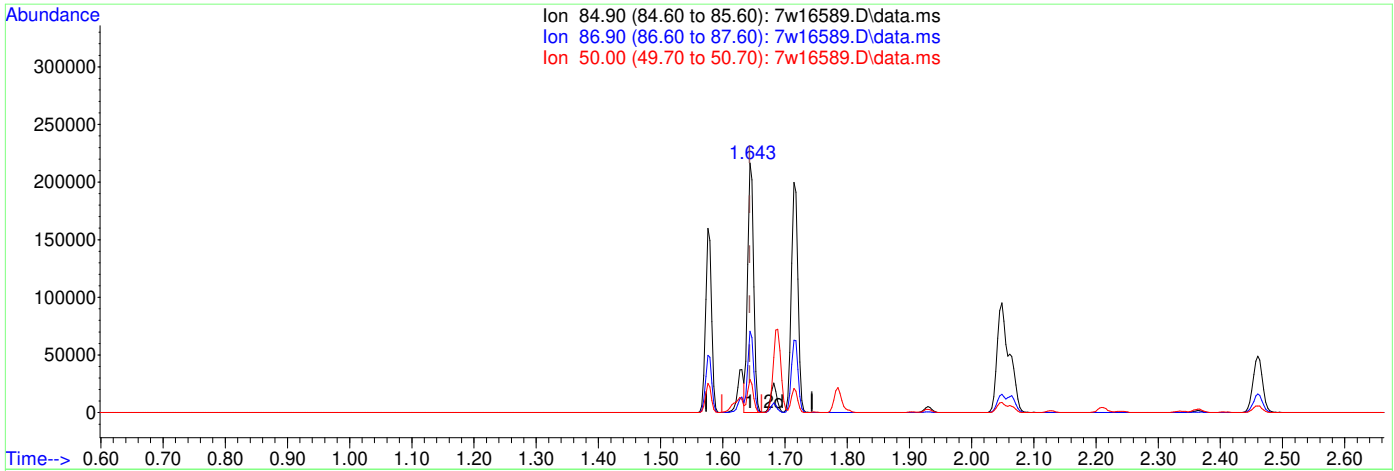
response 170335

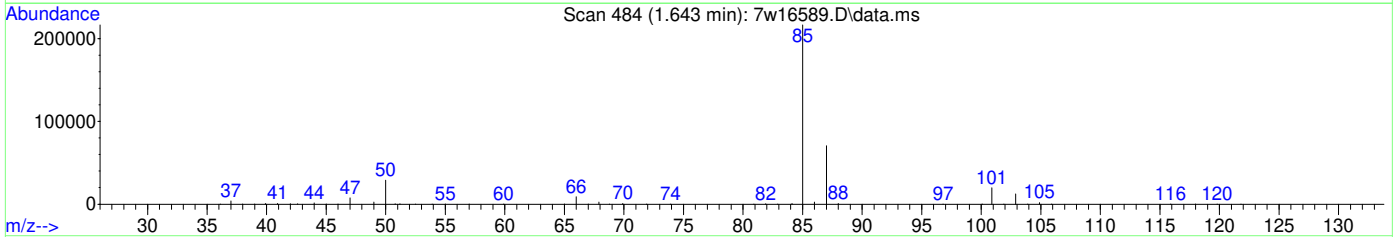
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.55
50.00	17.30	19.20
0.00	0.00	0.00

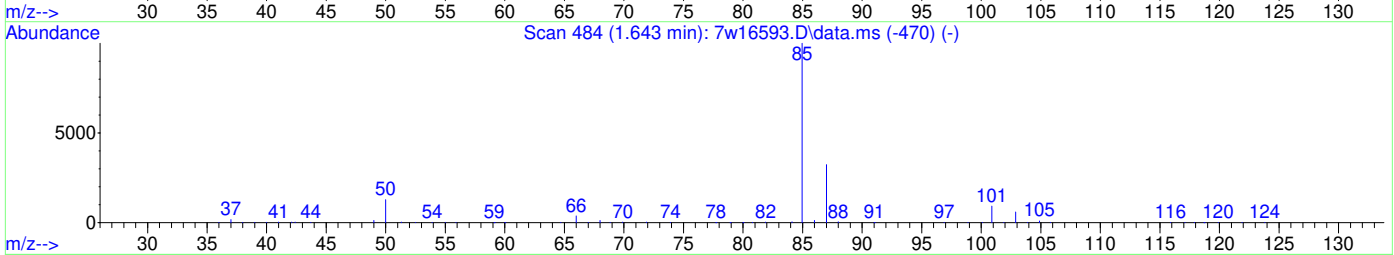
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16589.D
Acq On : 7 Aug 2025 12:29 pm
Operator : benk
Sample : ic577-5
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:22:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration







TIC: 7w16589.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 4.36PPBV m

response 143733

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	38.57
50.00	17.30	22.75#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	110672	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	555876	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	511162	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	110672	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	415854	10.00	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	148485	10.40	PPBV		88
3) FREON 152A	1.605	65	71639	10.50	PPBV		94
4) CHLORODIFLUOROMETHANE	1.618	67	32817	10.59	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.627	116	161129	10.60	PPBV		71
6) DICHLORODIFLUOROMETHANE	1.643	85	294067m	8.88	PPBV		
7) PROPYLENE	1.627	41	92922	10.60	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	267066	10.80	PPBV		99
9) FREON 114	1.714	85	301155	10.40	PPBV		83
10) CHLOROMETHANE	1.685	52	39544	10.60	PPBV		99
11) VINYL CHLORIDE	1.746	62	141282	10.20	PPBV		99
12) 1,3-BUTADIENE	1.785	54	110559	10.30	PPBV	#	75
13) N-BUTANE	1.801	43	196391	10.67	PPBV		98
14) BROMOMETHANE	1.859	94	107418	10.20	PPBV		97
15) CHLOROETHANE	1.904	64	73302	10.00	PPBV		95
16) DICHLOROFLUOROMETHANE	1.930	67	261718	10.00	PPBV		96
17) ACETONITRILE	1.994	41	111653	9.70	PPBV		96
18) ACROLEIN	2.032	56	63526	10.60	PPBV		96
19) FREON 123	2.049	83	286896	10.73	PPBV		96
20) FREON 123A	2.065	117	168072	10.70	PPBV	#	57
21) TRICHLOROFLUOROMETHANE	2.126	101	307938	10.10	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	265396	10.50	PPBV		89
23) ACETONE	2.071	58	72855	10.40	PPBV		64
24) PENTANE	2.238	42	138571	10.60	PPBV		88
25) IODOMETHANE	2.299	142	299236	10.70	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.328	96	121096	10.70	PPBV	#	59
27) CARBON DISULFIDE	2.463	76	348427	10.60	PPBV		94
28) ETHANOL	1.933	45	62817	9.70	PPBV		98
29) BROMOETHENE	2.004	106	111170	10.10	PPBV		95
30) ACRYLONITRILE	2.209	52	103886	10.70	PPBV		97
31) METHYLENE CHLORIDE	2.364	84	109559	10.20	PPBV	#	74
32) 3-CHLOROPROPENE	2.405	76	62528	10.20	PPBV		72
33) FREON 113	2.460	151	187009	10.60	PPBV		85
34) TRANS-1,2-DICHLOROETHENE	2.685	96	127301	10.20	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.335	59	296206	9.59	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	372073	10.49	PPBV		97
37) TETRAHYDROFURAN	3.466	72	57483	9.70	PPBV		81
38) HEXANE	3.238	57	246511	10.50	PPBV		81
39) VINYL ACETATE	2.827	86	35168	10.20	PPBV		71
40) 1,1-DICHLOROETHANE	2.759	63	250914	10.20	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	65983	10.43	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.113	96	134402	10.34	PPBV	#	74
43) DIISOPROPYL ETHER	3.241	59	70916	10.51	PPBV		94
44) ETHYL ACETATE	3.248	61	50059	10.49	PPBV		62
45) METHYL ACRYLATE	3.235	55	305217	10.50	PPBV	#	98
46) CHLOROFORM	3.261	83	269897	10.50	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.743	57	286654	10.70	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.820	97	278334	10.38	PPBV		94
49) CARBON TETRACHLORIDE	4.235	117	291854	10.20	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.659	62	205888	10.20	PPBV		98
51)	BENZENE	4.126	78	391334	10.41	PPBV		90
53)	CYCLOHEXANE	4.331	84	177560	10.40	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.582	71	92078	10.60	PPBV		68
55)	TRICHLOROETHENE	5.013	95	180016	9.90	PPBV		86
56)	1,2-DICHLOROPROPANE	4.782	63	164997	10.30	PPBV		92
57)	DIBROMOMETHANE	4.740	174	152742	10.28	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	381569	10.50	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.958	83	297999	9.90	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	772831	10.20	PPBV	#	95
61)	1,4-DIOXANE	5.023	88	89212	9.94	PPBV	#	83
62)	HEPTANE	5.418	43	263524	10.40	PPBV		91
63)	METHYL METHACRYLATE	5.315	69	149851	10.30	PPBV		88
64)	METHYL ISOBUTYL KETONE	6.035	58	152356	10.20	PPBV		78
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	257147	10.12	PPBV		96
66)	TOLUENE	7.129	91	488762	10.60	PPBV		97
67)	1,3-DICHLOROPROPANE	7.187	76	252760	10.60	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	227014	9.56	PPBV		96
69)	1,1,2-TRICHLOROETHANE	6.765	83	143412	10.50	PPBV		95
70)	2-HEXANONE	7.691	58	203944	10.38	PPBV	#	79
71)	ETHYL METHACRYLATE	7.830	69	260130	10.39	PPBV		95
72)	TETRACHLOROETHENE	8.842	164	181618	10.70	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.659	129	295382	10.40	PPBV		97
74)	1,2-DIBROMOETHANE	8.000	107	267727	10.99	PPBV		99
75)	OCTANE	8.994	43	371213	10.70	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	219545	10.90	PPBV		93
78)	CHLOROBENZENE	10.042	112	401465	10.90	PPBV		90
79)	ETHYLBENZENE	10.923	91	667794	11.00	PPBV		97
80)	M,P-XYLENE	11.350	91	1033120	21.20	PPBV		96
81)	O-XYLENE	12.283	91	525465	11.00	PPBV		95
82)	STYRENE	12.067	104	405889	10.90	PPBV		94
83)	NONANE	13.402	43	395697	10.80	PPBV		83
84)	BROMOFORM	11.157	173	257628	10.60	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	382601	10.99	PPBV		98
86)	1,2,3-TRICHLOROPROPANE	12.572	75	301186	11.00	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	197546	10.80	PPBV		87
89)	BROMOBENZENE	13.656	77	373873	10.80	PPBV		76
90)	2-CHLOROTOLUENE	14.784	126	179837	10.39	PPBV		99
91)	N-PROPYLBENZENE	15.125	120	208155	10.50	PPBV		97
92)	4-ETHYLTOLUENE	15.569	105	761814	10.60	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	641174	10.70	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.173	118	317898	10.40	PPBV		97
95)	TERT-BUTYLBENZENE	16.495	134	157456	10.90	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	660136	10.90	PPBV		95
97)	BENZYL CHLORIDE	16.601	91	547978	10.50	PPBV		92
98)	M-DICHLOROBENZENE	16.569	146	424825	10.50	PPBV		96
99)	P-DICHLOROBENZENE	16.665	146	430477	10.80	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	400770	10.70	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	191611	11.00	PPBV		83
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	636319	10.70	PPBV		95
103)	P-ISOPROPYLTOLUENE	17.013	134	211524	10.80	PPBV		95
104)	N-BUTYLBENZENE	17.379	134	205284	10.90	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	254836	10.90	PPBV		97
106)	HEXACHLOROBUTADIENE	18.636	225	300683	11.70	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.321	180	387303	11.70	PPBV		99
108)	NAPHTHALENE	18.366	128	909462	11.80	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	646941	10.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

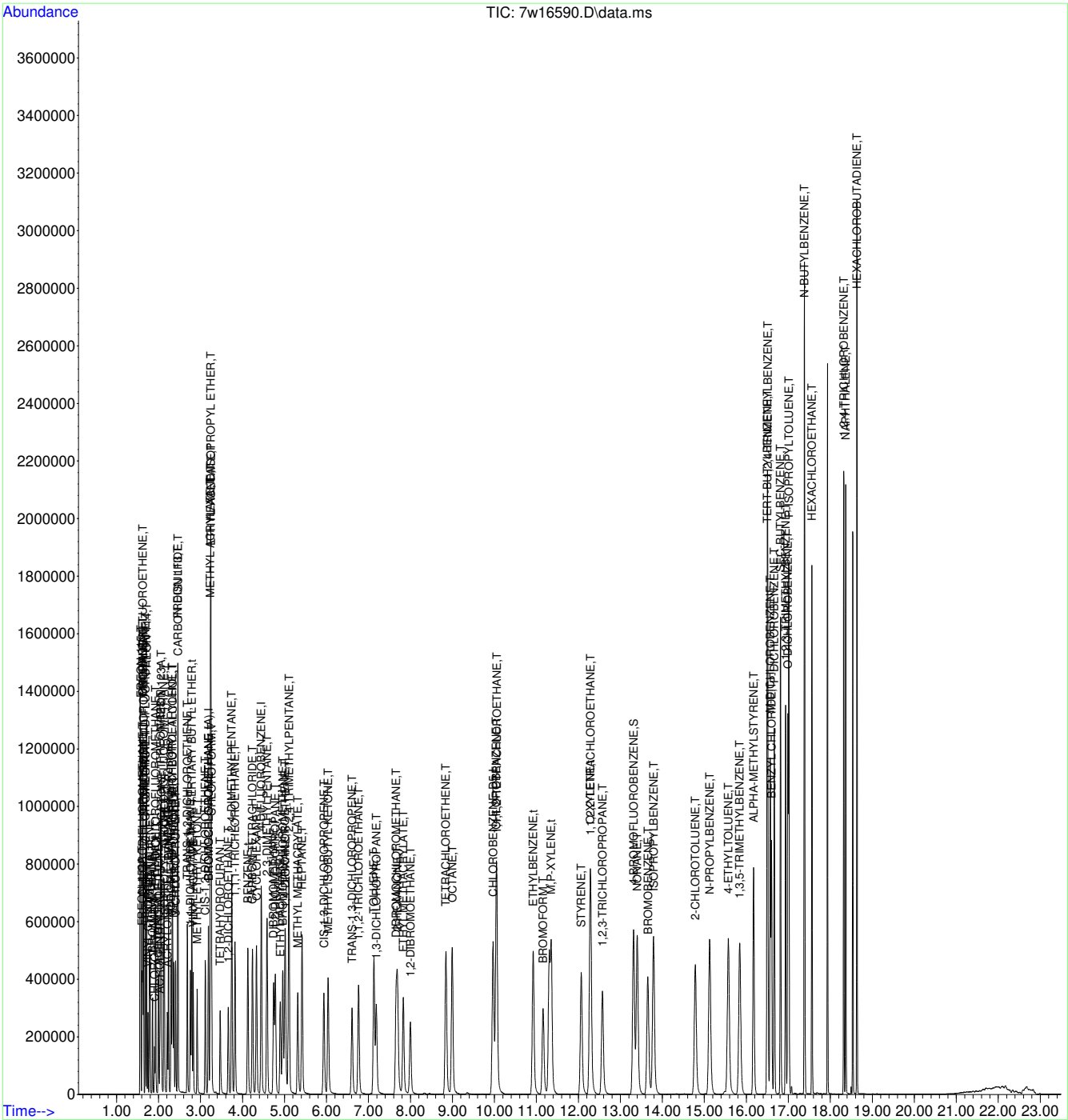
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

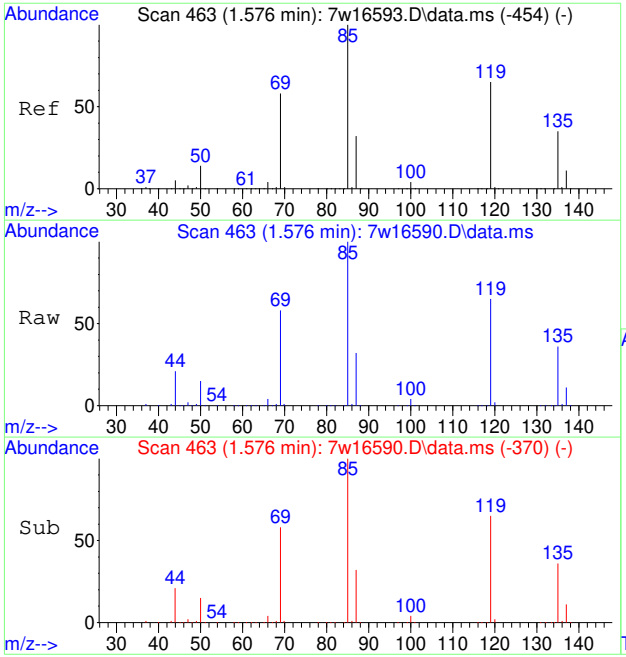
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:04:20 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

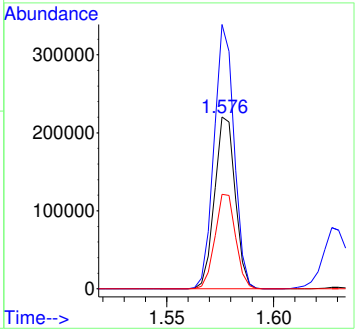


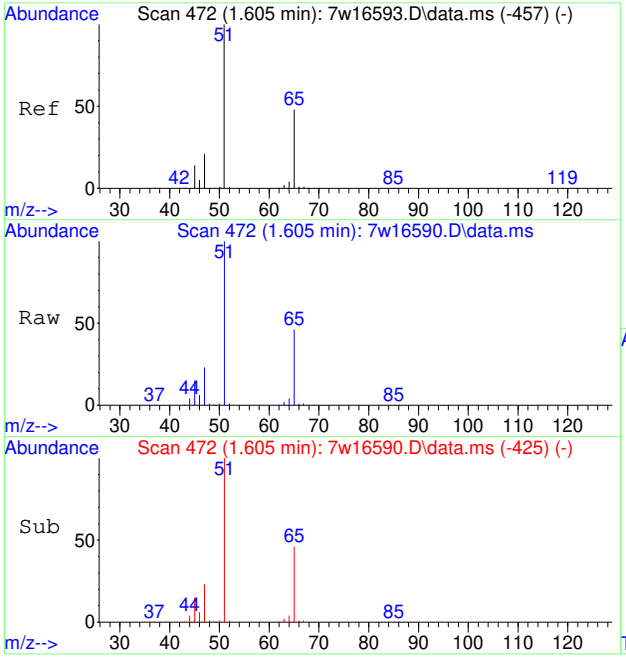


#2
FREON 115
Concen: 10.40 PPBV
RT: 1.576 min Scan# 463
Delta R.T. -0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:119 Resp: 148485

Ion	Ratio	Lower	Upper
119	100		
85	149.1	90.9	168.7
135	55.2	38.2	71.0

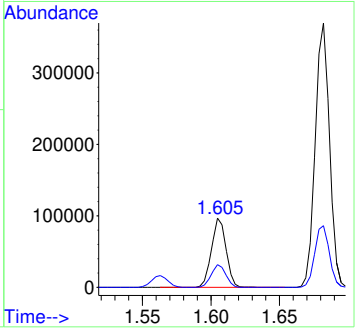


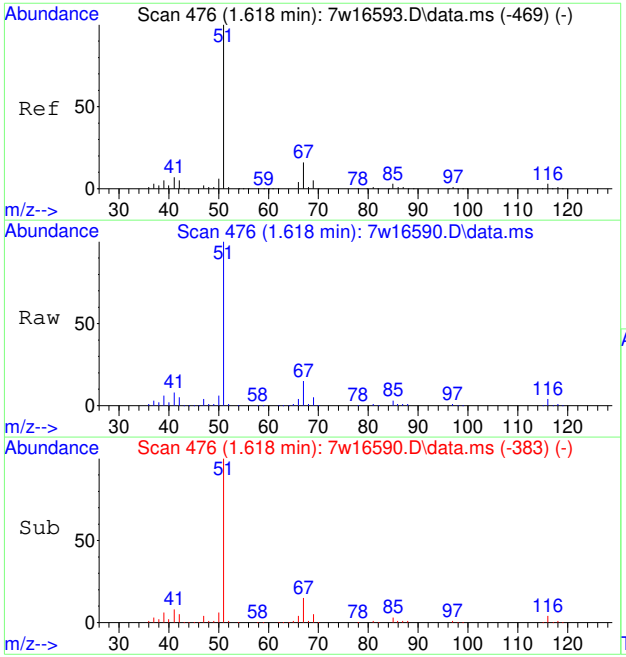


#3
FREON 152A
Concen: 10.50 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 71639

Ion	Ratio	Lower	Upper
65	100		
45	32.9	20.6	38.4

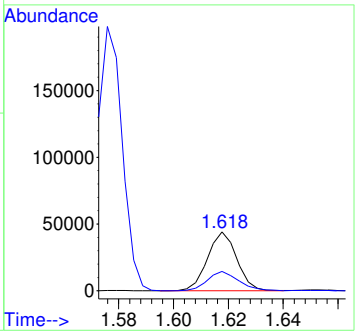


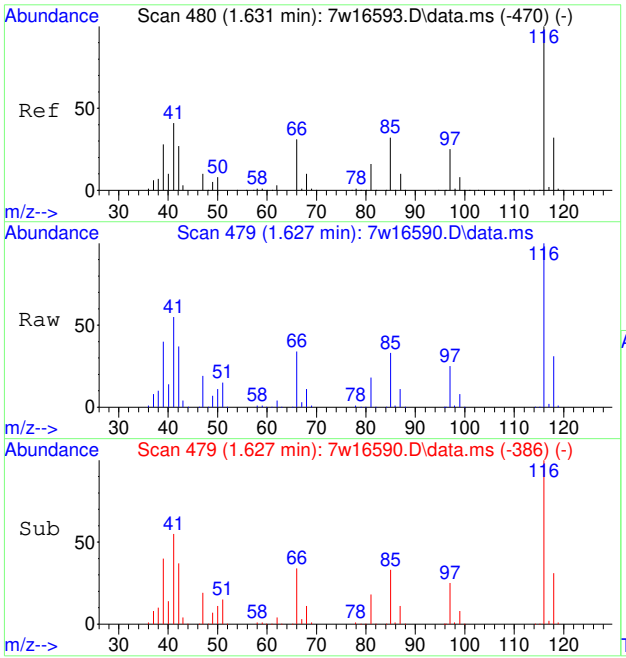


#4
CHLORODIFLUOROMETHANE
Concen: 10.59 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 32817

Ion	Ratio	Lower	Upper
67	100		
69	36.2	25.4	47.2

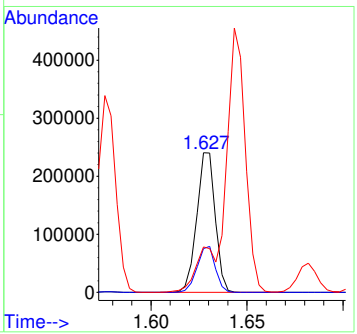


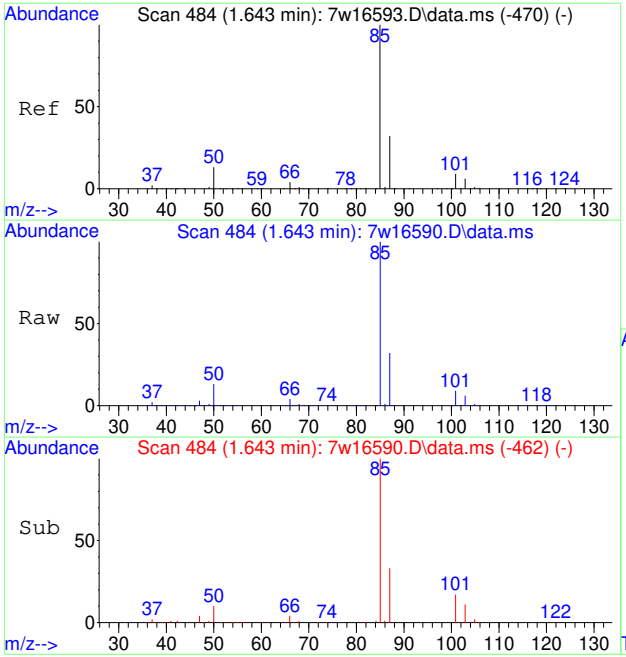


#5
CHLOROTRIFLUOROETHENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:116 Resp: 161129

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	217.7	194.7	361.7

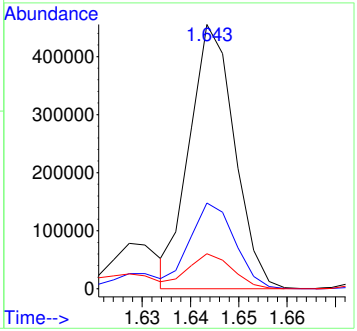


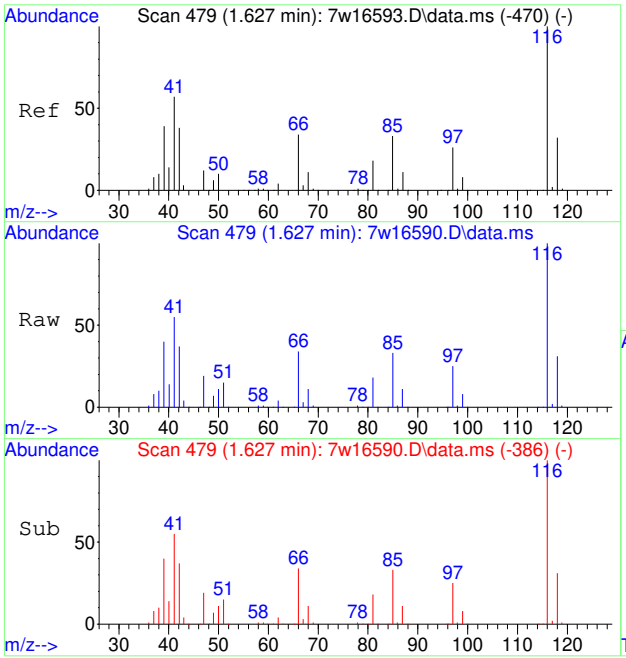


#6
DICHLORODIFLUOROMETHANE
Concen: 8.88 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 294067

Ion	Ratio	Lower	Upper
85	100		
87	39.2	23.1	42.9
50	23.1	12.1	22.5#

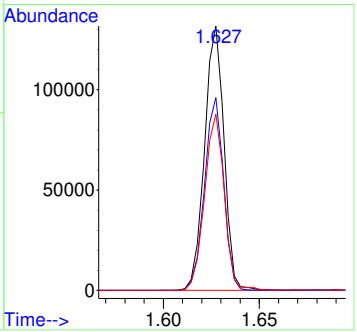


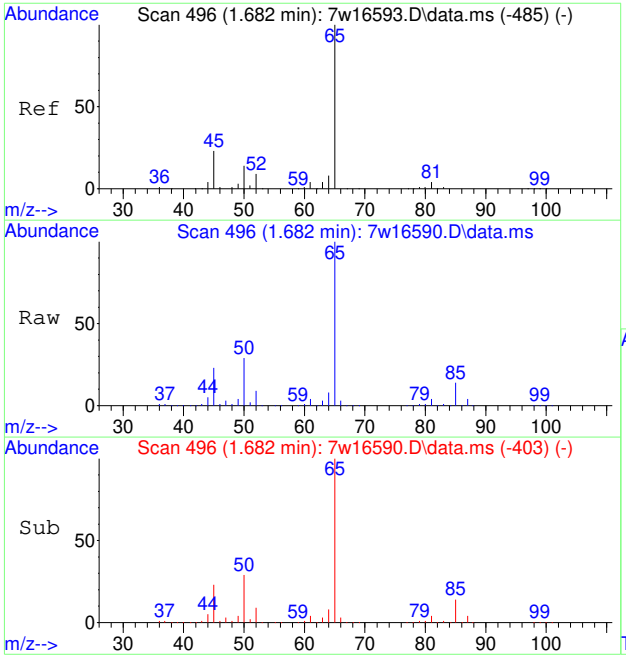


#7
PROPYLENE
Concen: 10.60 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 92922

Ion	Ratio	Lower	Upper
41	100		
39	72.1	51.0	94.8
42	67.2	46.6	86.6

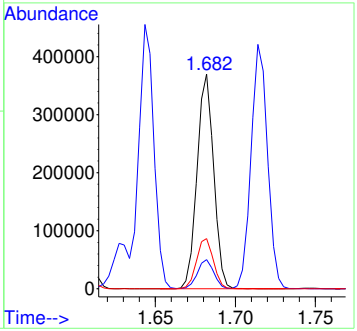


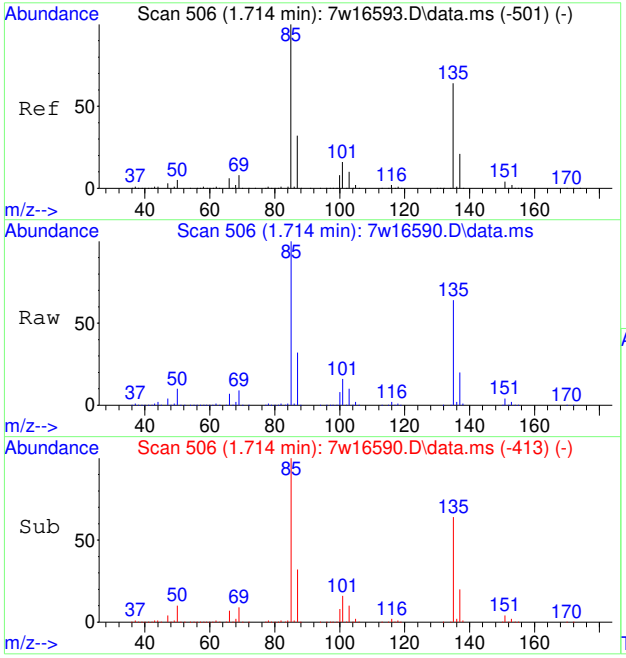


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.80 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 65 Resp: 267066

Ion	Ratio	Lower	Upper
65	100		
85	13.4	9.7	17.9
45	24.1	17.0	31.6

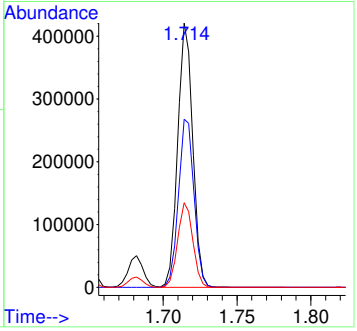


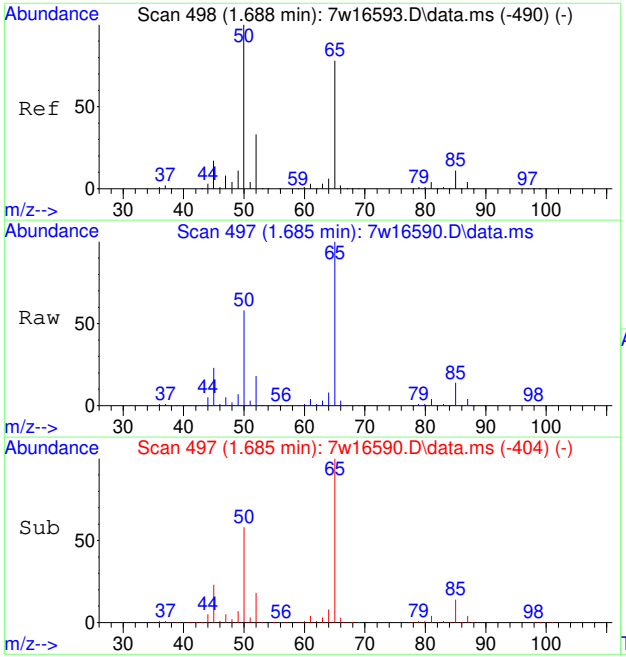


#9
FREON 114
Concen: 10.40 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 85 Resp: 301155

Ion	Ratio	Lower	Upper
85	100		
135	65.9	61.3	113.9
87	32.3	23.2	43.0

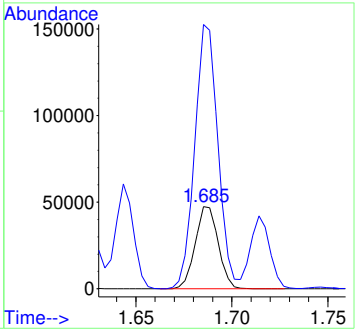


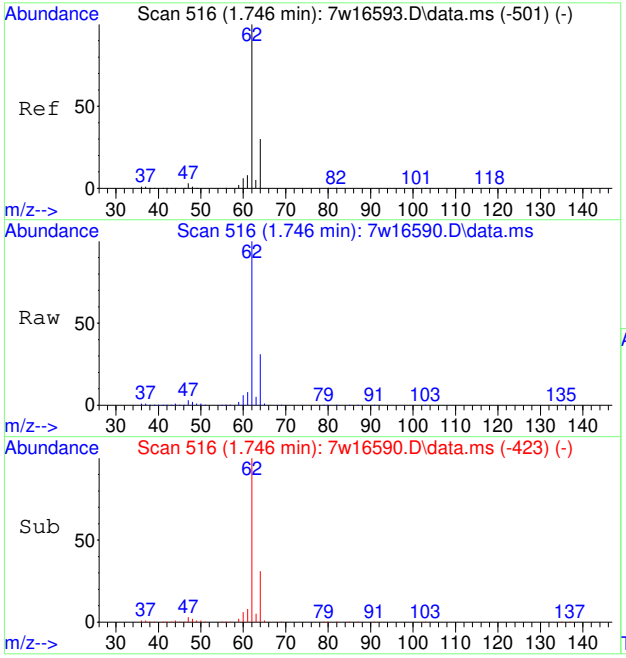


#10
CHLOROMETHANE
Concen: 10.60 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 39544

Ion	Ratio	Lower	Upper
52	100		
50	322.3	227.6	422.6

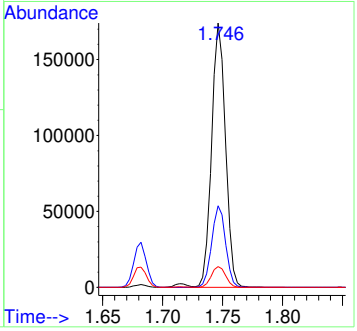


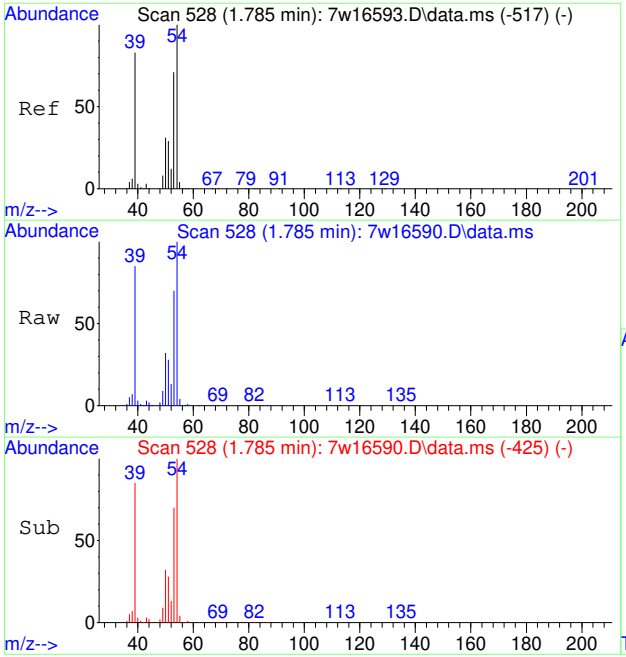


#11
VINYL CHLORIDE
Concen: 10.20 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 141282

Ion	Ratio	Lower	Upper
62	100		
64	30.5	21.6	40.2
61	8.1	5.7	10.7

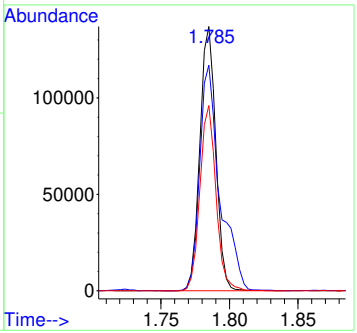


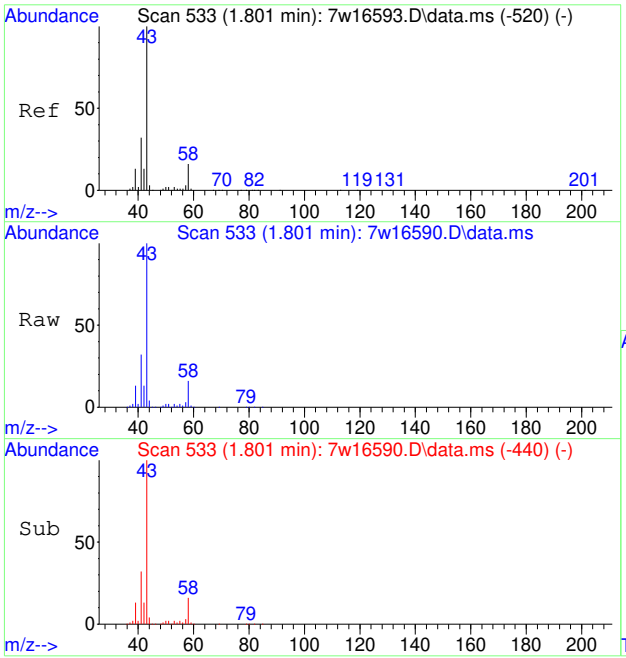


#12
1,3-BUTADIENE
Concen: 10.30 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 54 Resp: 110559

Ion	Ratio	Lower	Upper
54	100		
39	108.4	125.6	185.6#
53	70.9	40.7	100.7

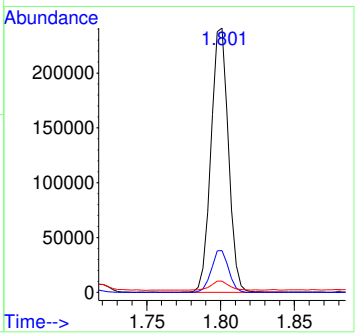


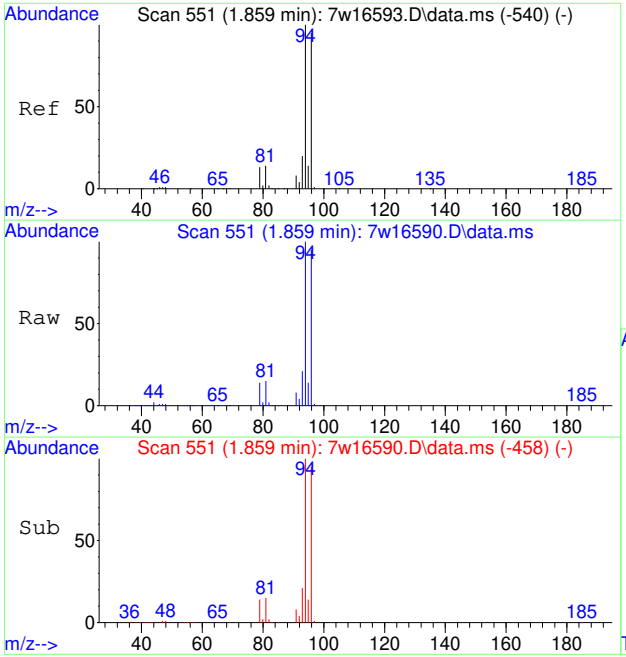


#13
N-BUTANE
Concen: 10.67 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 196391

Ion	Ratio	Lower	Upper
43	100		
58	15.7	10.4	19.4
44	3.7	3.0	5.6

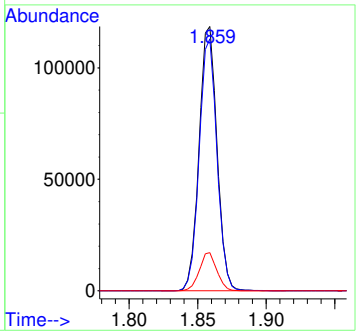


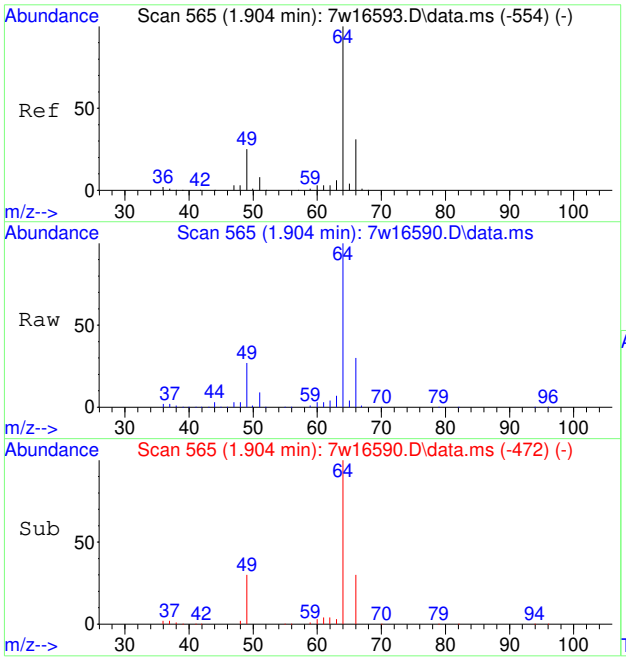


#14
BROMOMETHANE
Concen: 10.20 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 94 Resp: 107418

Ion	Ratio	Lower	Upper
94	100		
96	94.4	63.6	118.0
95	14.1	10.0	18.6

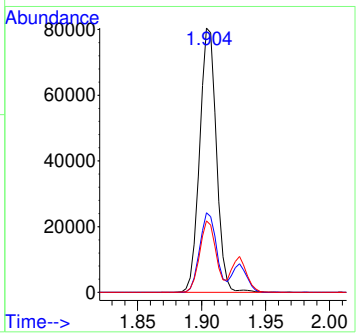


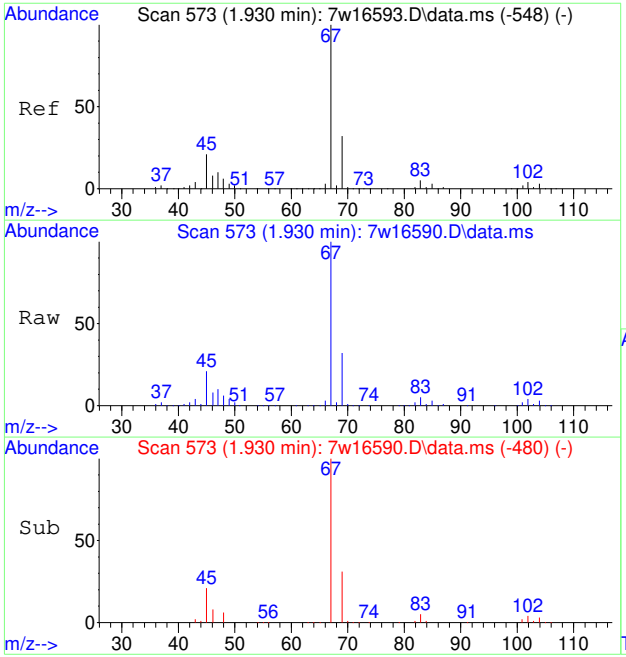


#15
CHLOROETHANE
Concen: 10.00 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 64 Resp: 73302

Ion	Ratio	Lower	Upper
64	100		
66	30.7	23.0	42.6
49	27.2	21.5	39.9

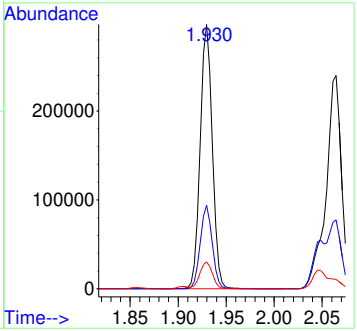


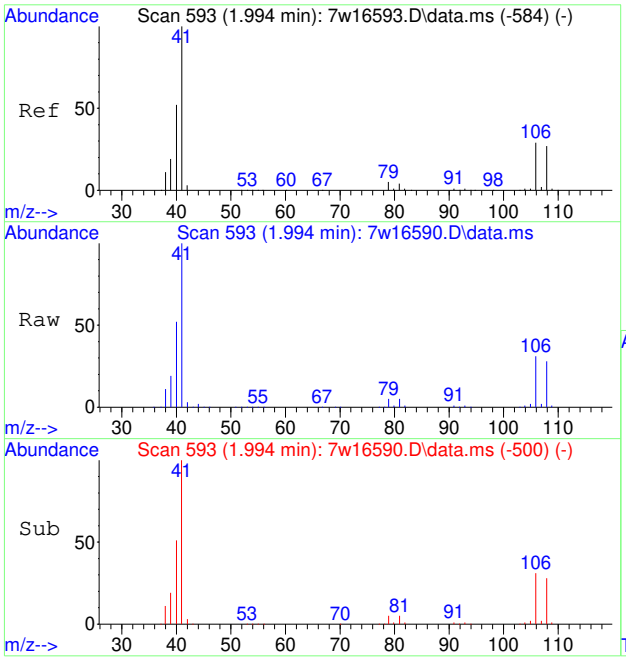


#16
DICHLOROFLUOROMETHANE
Concen: 10.00 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 67 Resp: 261718

Ion	Ratio	Lower	Upper
67	100		
69	31.2	23.2	43.0
47	11.4	9.6	17.8

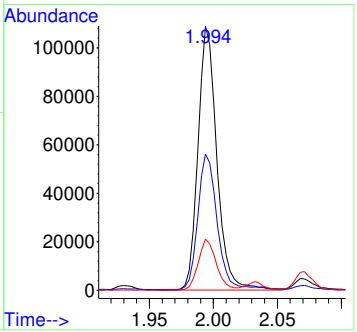


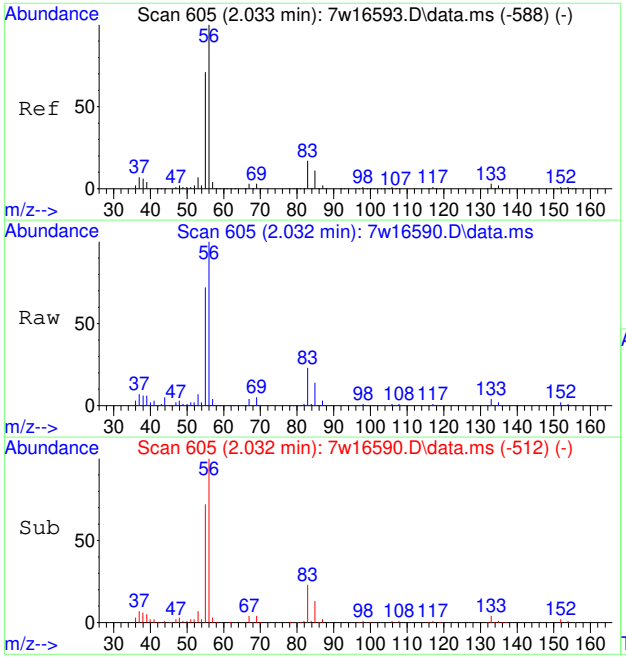


#17
ACETONITRILE
Concen: 9.70 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 41 Resp: 111653

Ion	Ratio	Lower	Upper
41	100		
40	52.4	38.4	71.4
39	18.7	14.5	26.9

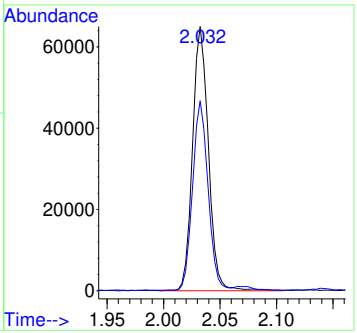


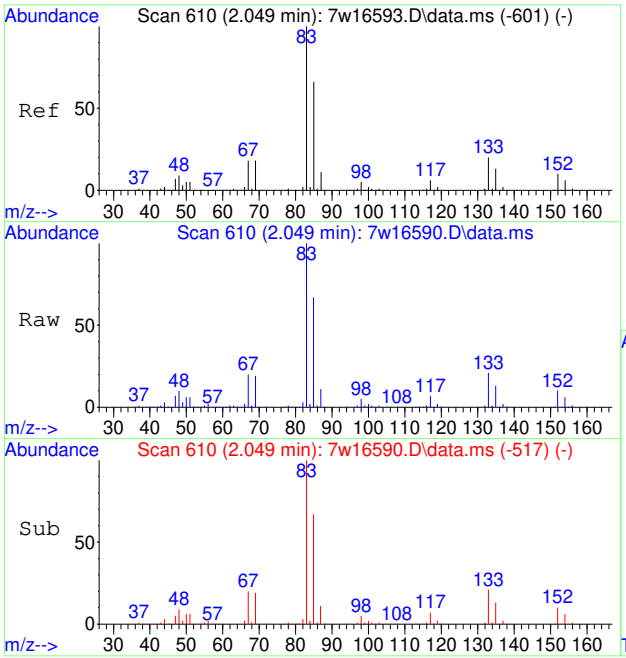


#18
ACROLEIN
Concen: 10.60 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 56 Resp: 63526

Ion	Ratio	Lower	Upper
56	100		
55	69.8	51.2	95.2

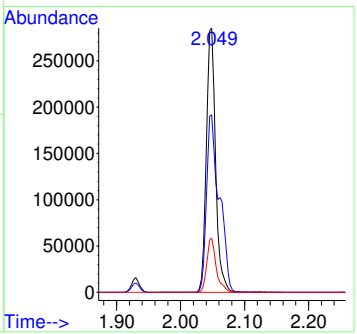


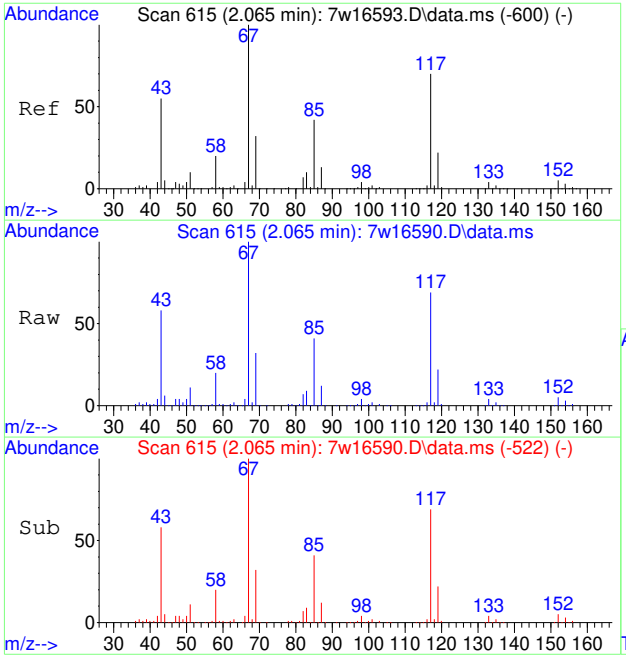


#19
FREON 123
Concen: 10.73 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 286896

Ion	Ratio	Lower	Upper
83	100		
85	92.7	65.7	121.9
133	21.0	19.9	36.9

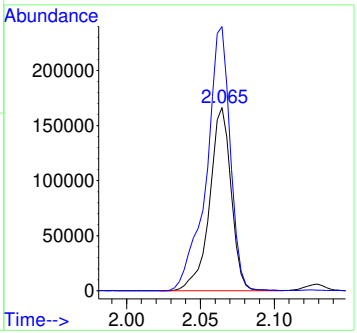


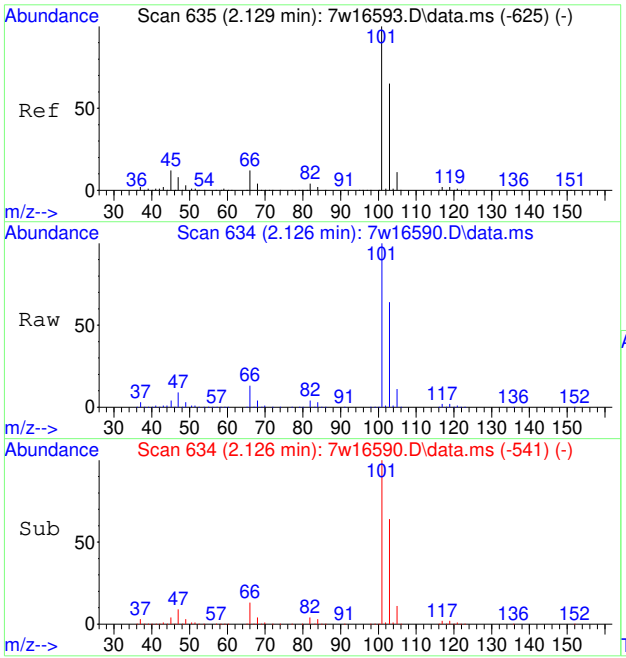


#20
FREON 123A
Concen: 10.70 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 168072

Ion	Ratio	Lower	Upper
117	100		
67	159.0	78.8	146.4#

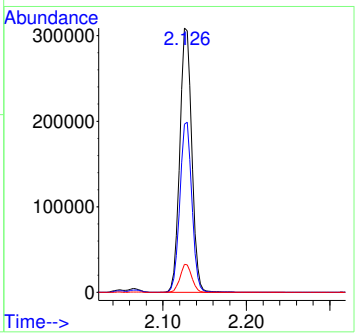


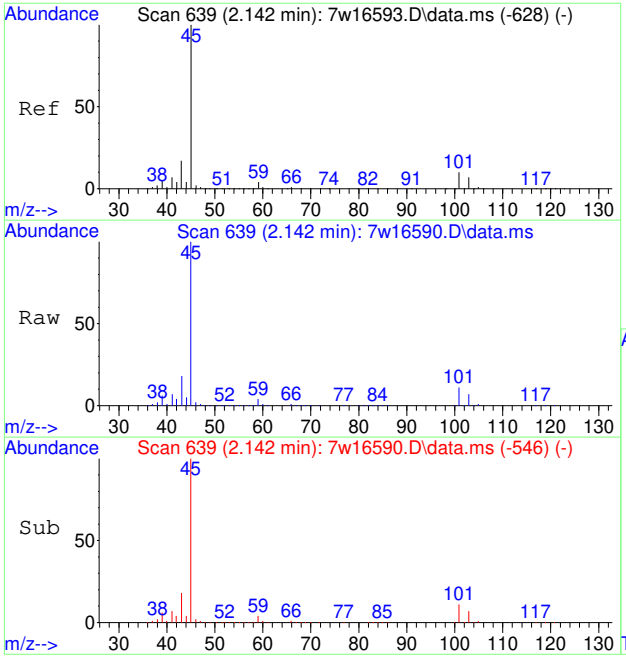


#21
TRICHLOROFLUOROMETHANE
Concen: 10.10 PPBV
RT: 2.126 min Scan# 634
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:101 Resp: 307938

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	82.3
105	10.4	7.3	13.7

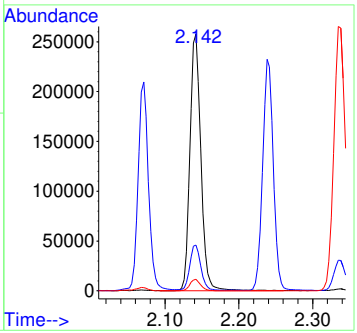


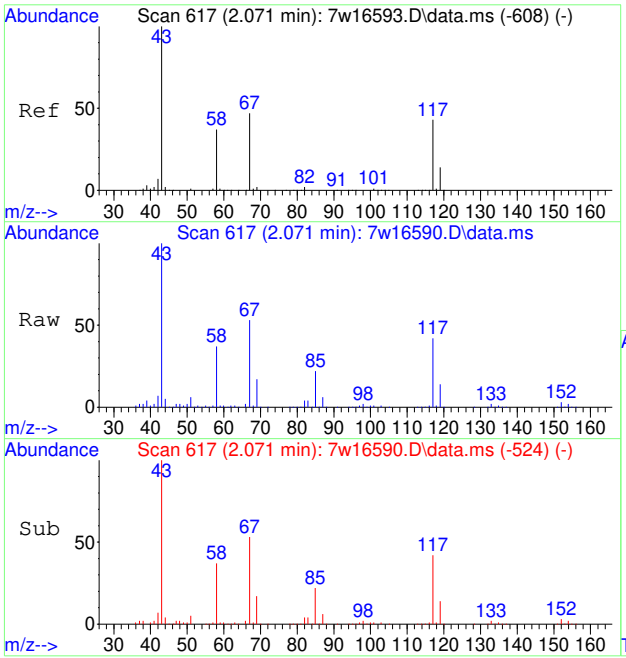


#22
ISOPROPYL ALCOHOL
Concen: 10.50 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 265396

Ion	Ratio	Lower	Upper
45	100		
43	17.9	17.1	31.9
59	4.4	3.1	5.8

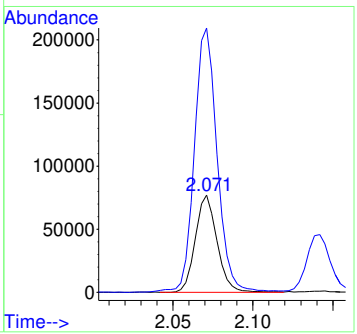


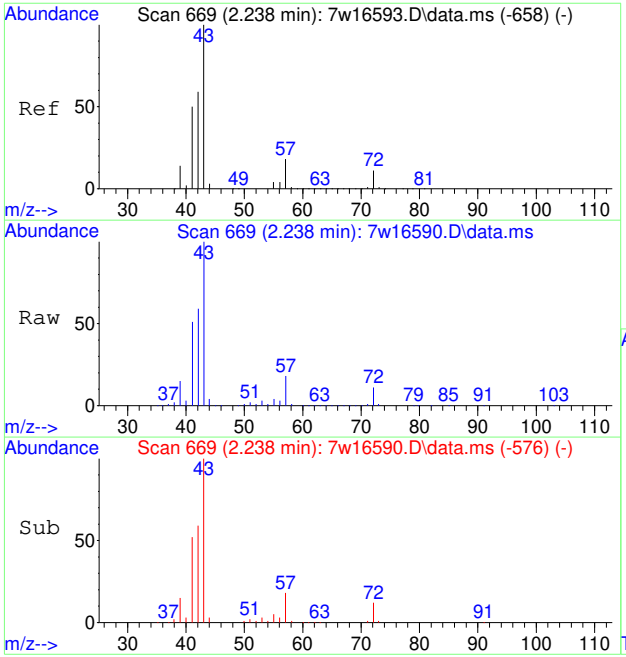


#23
ACETONE
Concen: 10.40 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 72855

Ion	Ratio	Lower	Upper
58	100		
43	283.7	254.0	471.6

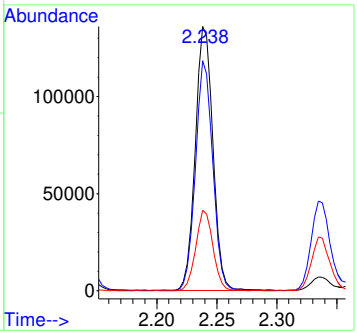


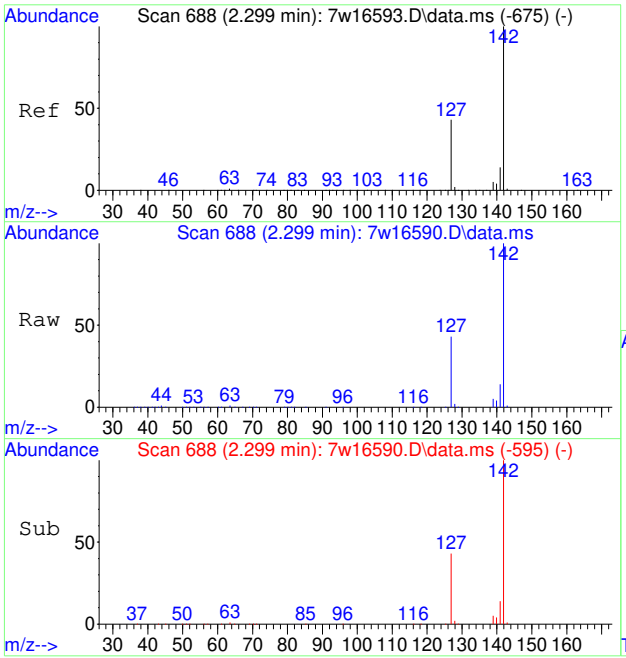


#24
PENTANE
Concen: 10.60 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 42 Resp: 138571

Ion	Ratio	Lower	Upper
42	100		
41	85.4	69.2	128.6
57	30.1	18.6	34.6

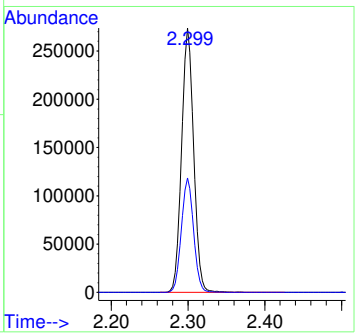


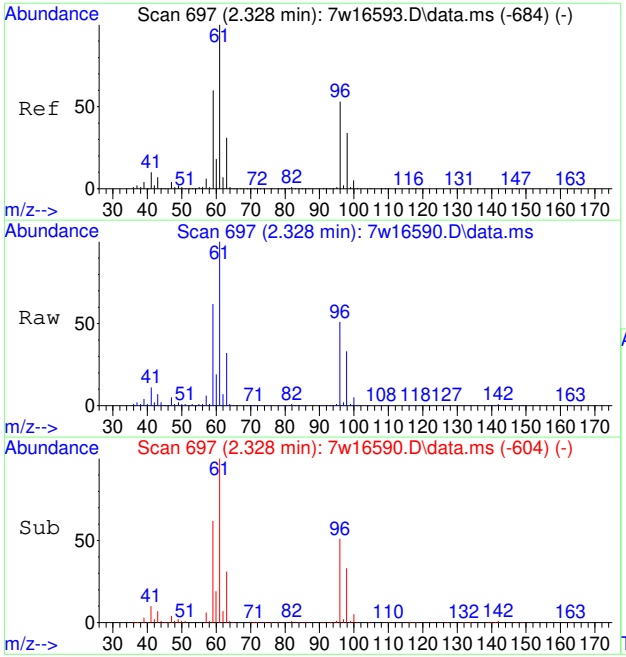


#25
IODOMETHANE
Concen: 10.70 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:142 Resp: 299236

Ion	Ratio	Lower	Upper
142	100		
127	43.7	32.1	59.7

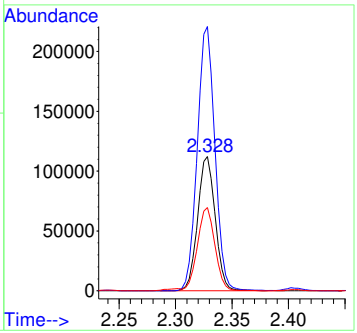


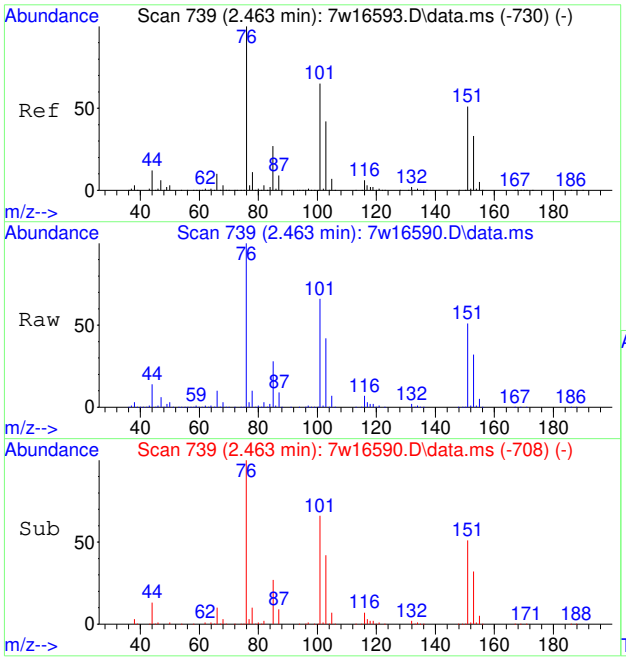


#26
1,1-DICHLOROETHYLENE
Concen: 10.70 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 121096

Ion	Ratio	Lower	Upper
96	100		
61	197.5	98.3	182.5#
63	63.1	33.2	61.7#

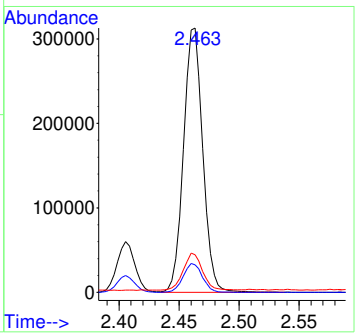


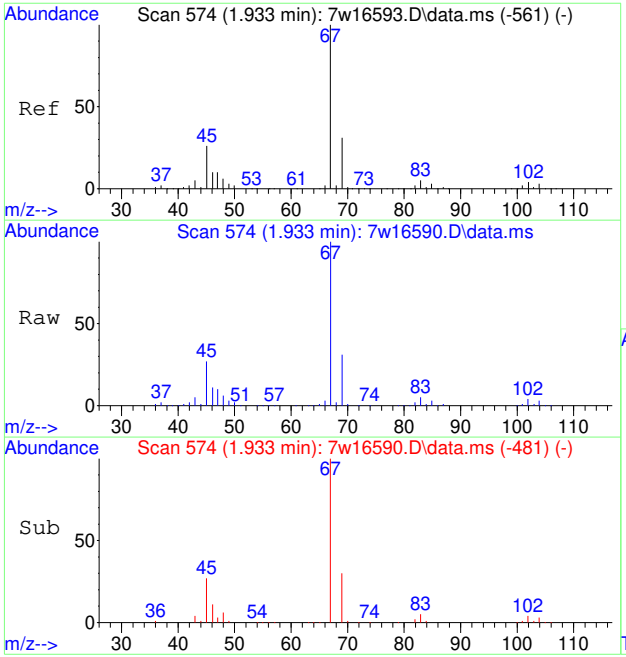


#27
CARBON DISULFIDE
Concen: 10.60 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 348427

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	14.6	13.0	24.1

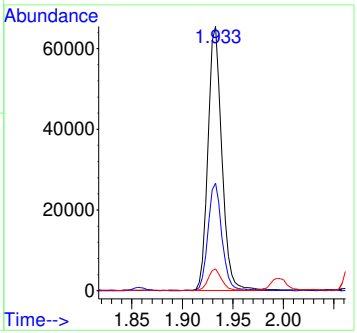


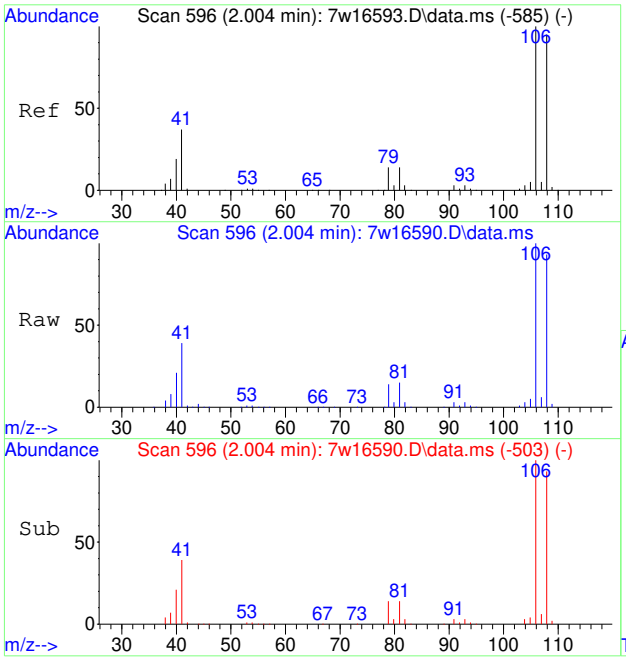


#28
ETHANOL
Concen: 9.70 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 45 Resp: 62817

Ion	Ratio	Lower	Upper
45	100		
46	41.5	29.7	55.1
42	8.1	7.3	13.5

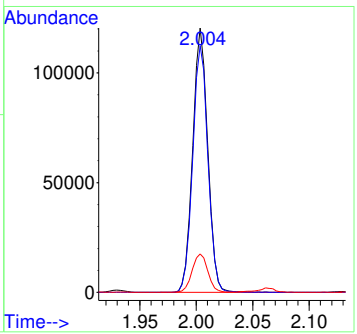


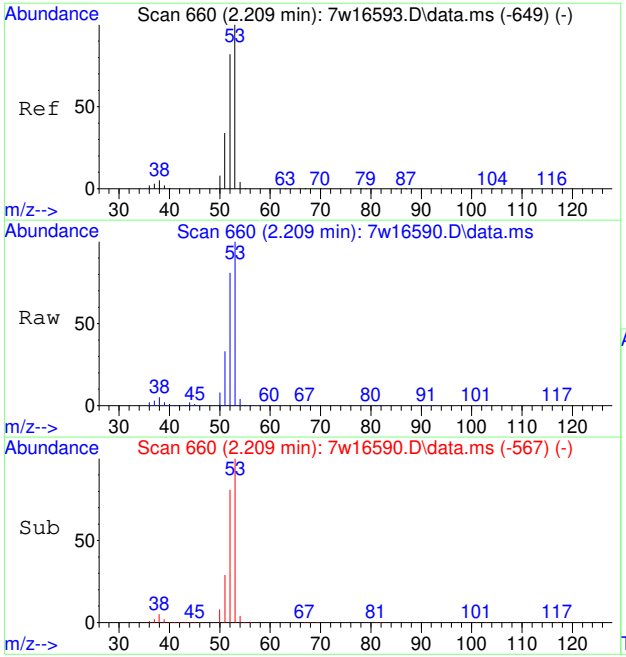


#29
BROMOETHENE
Concen: 10.10 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:106 Resp: 111170

Ion	Ratio	Lower	Upper
106	100		
108	94.4	68.3	126.8
81	15.2	14.7	27.3

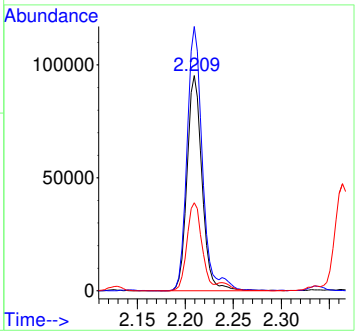


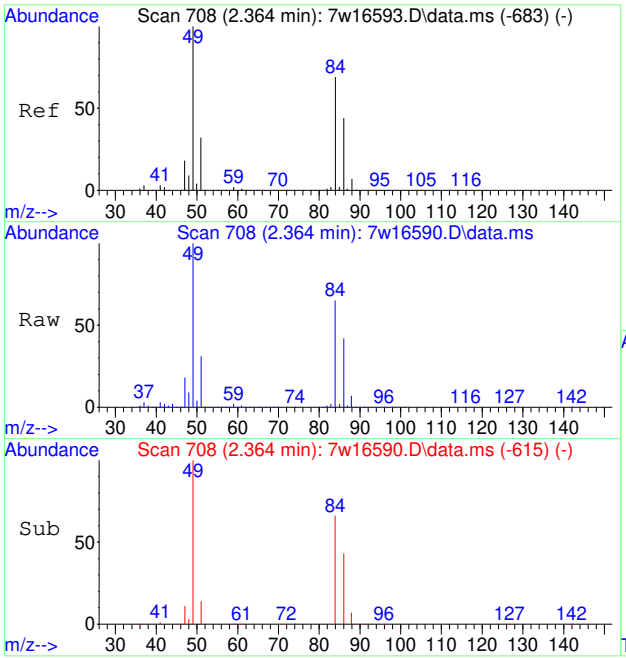


#30
ACRYLONITRILE
Concen: 10.70 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 52 Resp: 103886

Ion	Ratio	Lower	Upper
52	100		
53	126.0	86.3	160.3
51	44.7	33.6	62.4

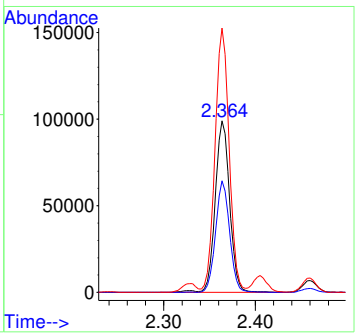


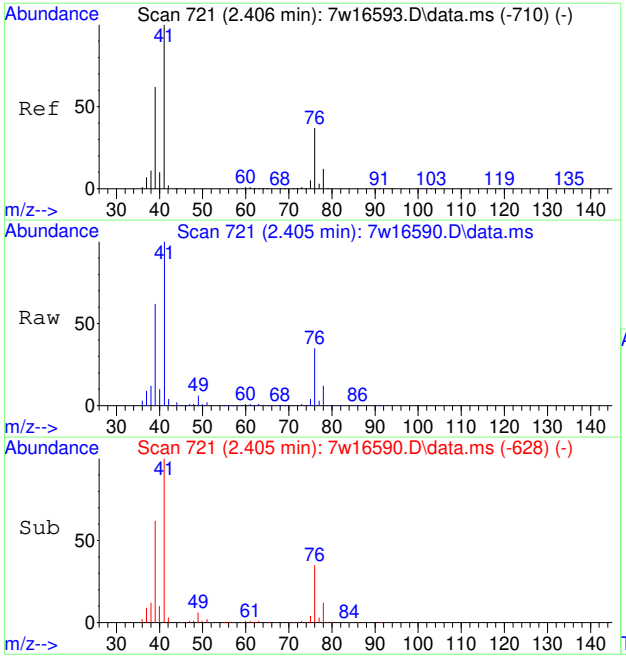


#31
METHYLENE CHLORIDE
Concen: 10.20 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 109559

Ion	Ratio	Lower	Upper
84	100		
86	63.3	44.9	83.5
49	156.4	79.7	148.1#

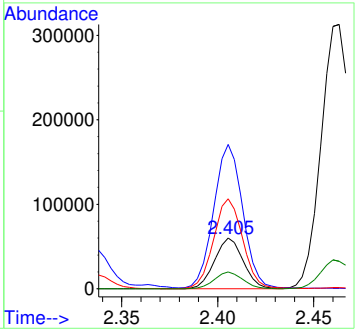


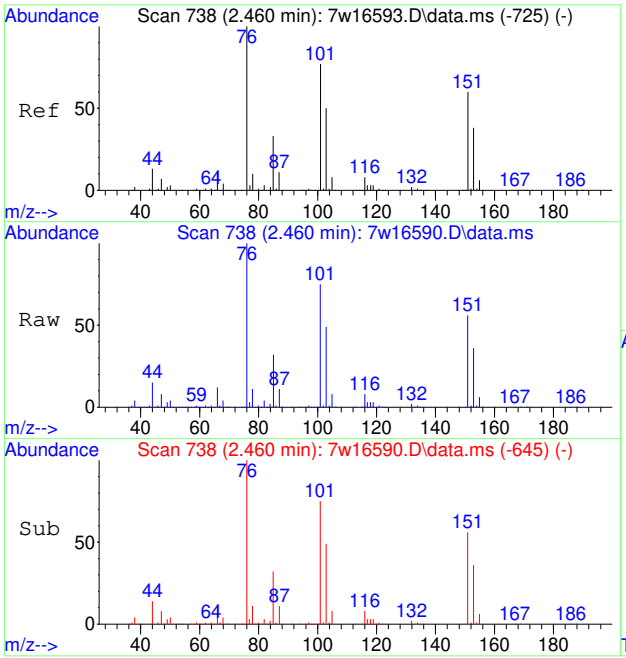


#32
3-CHLOROPROPENE
Concen: 10.20 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 62528

Ion	Ratio	Lower	Upper
76	100		
41	289.4	160.9	298.9
39	179.7	150.7	279.9
78	33.0	22.7	42.1

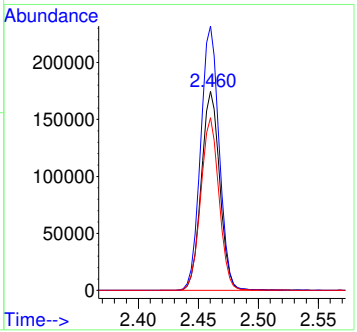


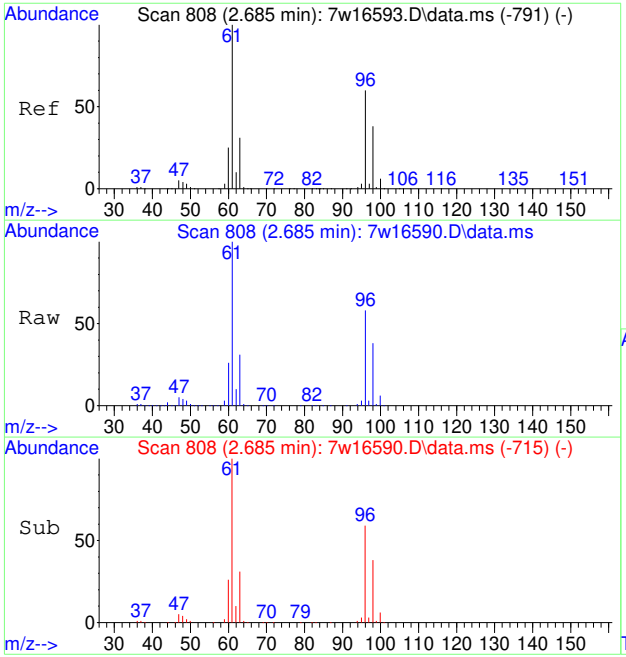


#33
FREON 113
Concen: 10.60 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:151 Resp: 187009

Ion	Ratio	Lower	Upper
151	100		
101	133.0	81.1	150.7
103	85.8	51.4	95.4

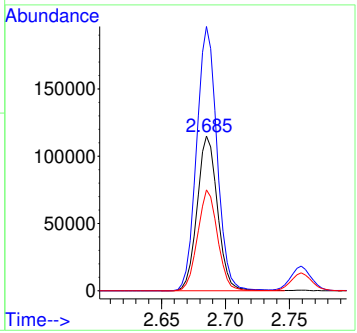


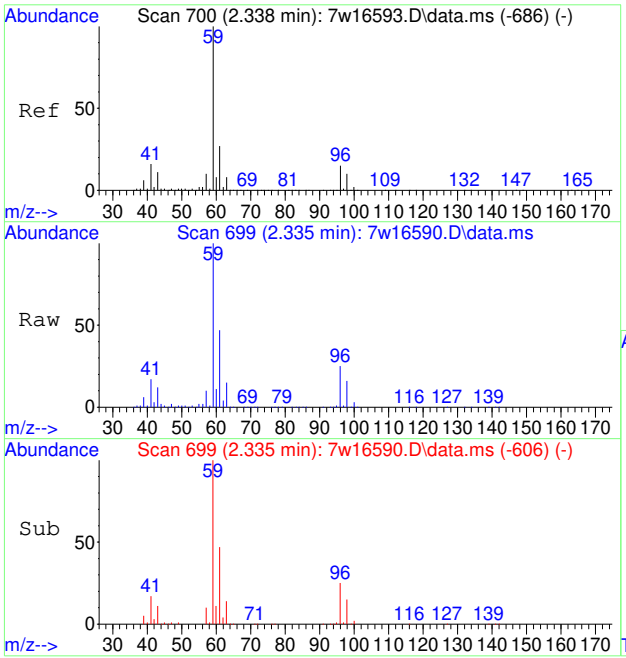


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.20 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 127301

Ion	Ratio	Lower	Upper
96	100		
61	170.8	78.5	145.9#
98	64.2	46.5	86.3

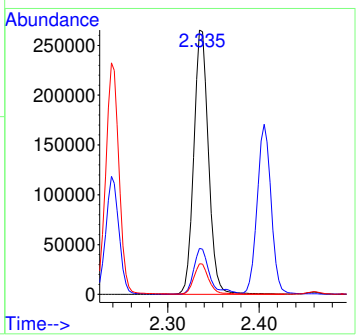


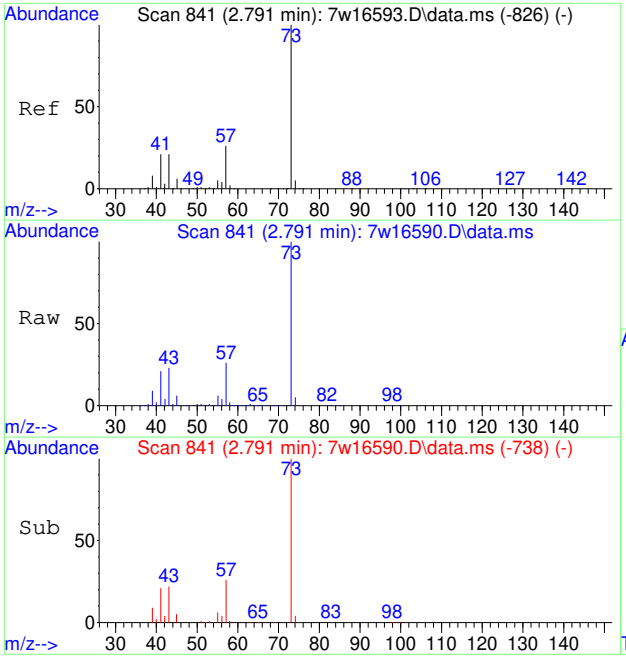


#35
TERTIARY BUTYL ALCOHOL
Concen: 9.59 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 59 Resp: 296206

Ion	Ratio	Lower	Upper
59	100		
41	18.4	15.3	28.5
43	11.4	12.3	22.9#

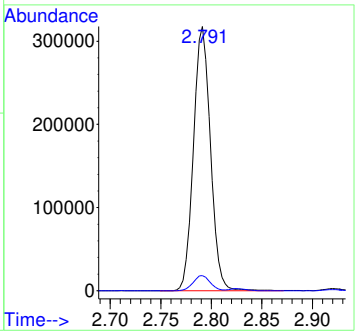


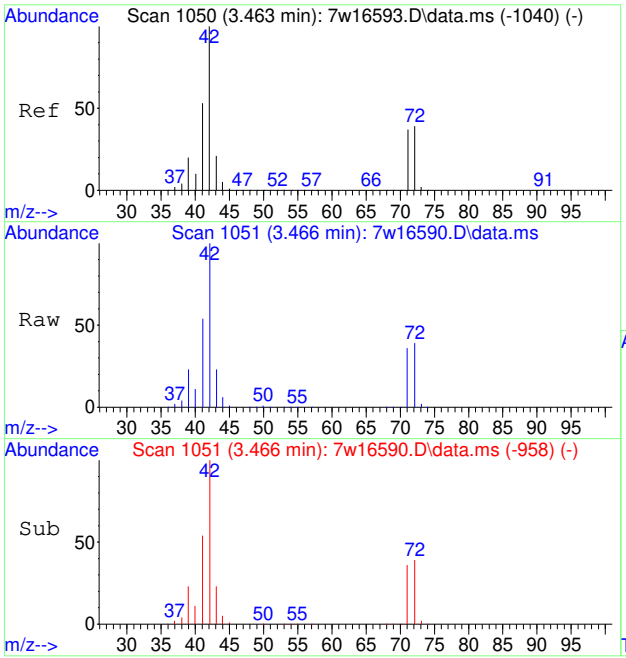


#36
METHYL TERTIARY BUTYL ETHER
Concen: 10.49 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 73 Resp: 372073

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

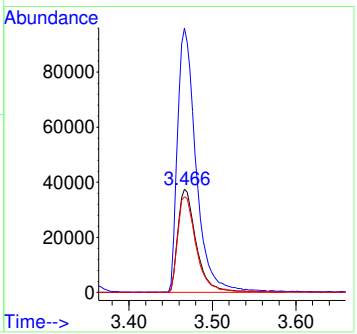


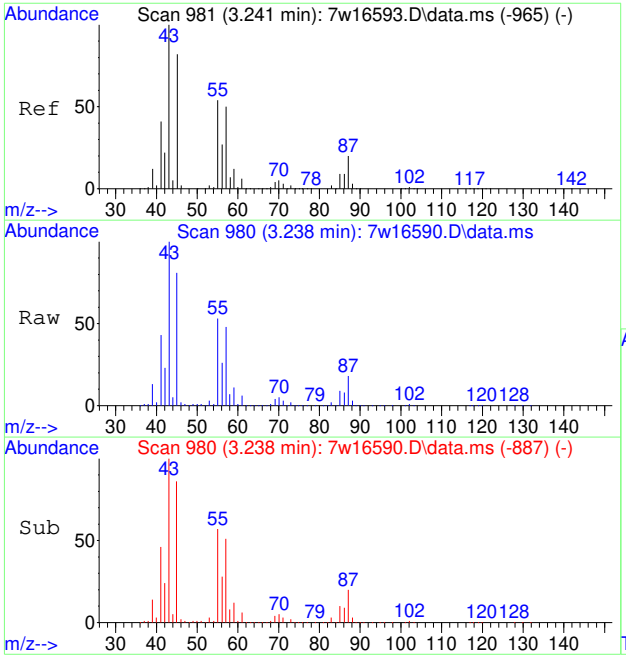


#37
TETRAHYDROFURAN
Concen: 9.70 PPBV
RT: 3.466 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 57483

Ion	Ratio	Lower	Upper
72	100		
42	257.5	153.0	284.2
71	94.0	62.7	116.5

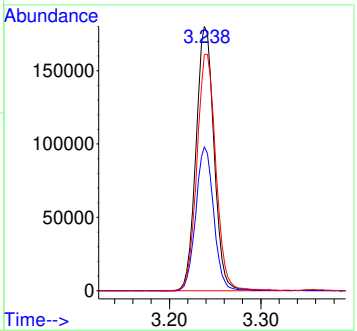


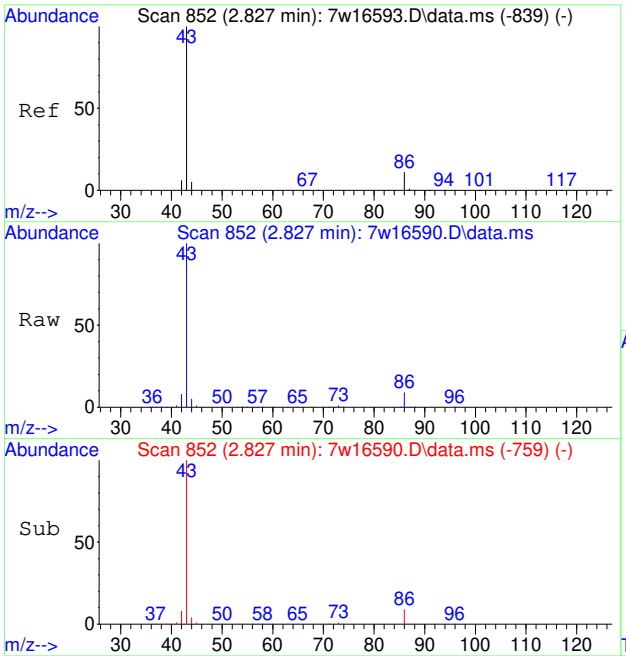


#38
HEXANE
Concen: 10.50 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 246511

Ion	Ratio	Lower	Upper
57	100		
56	54.3	37.3	69.3
41	94.2	86.7	161.1

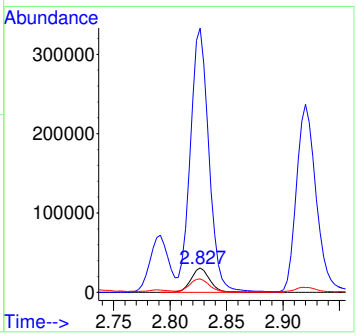


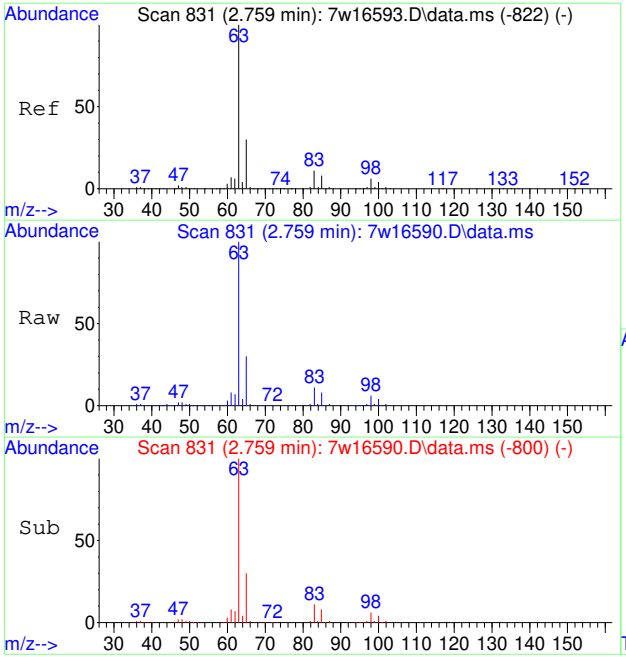


#39
VINYL ACETATE
Concen: 10.20 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 86 Resp: 35168

Ion	Ratio	Lower	Upper
86	100		
43	1083.8	667.9	1240.3
44	56.4	32.7	60.7

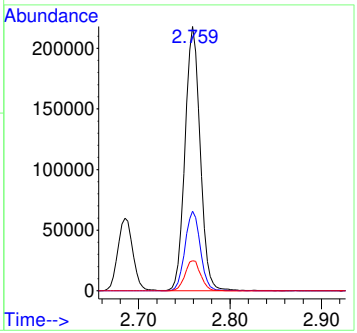


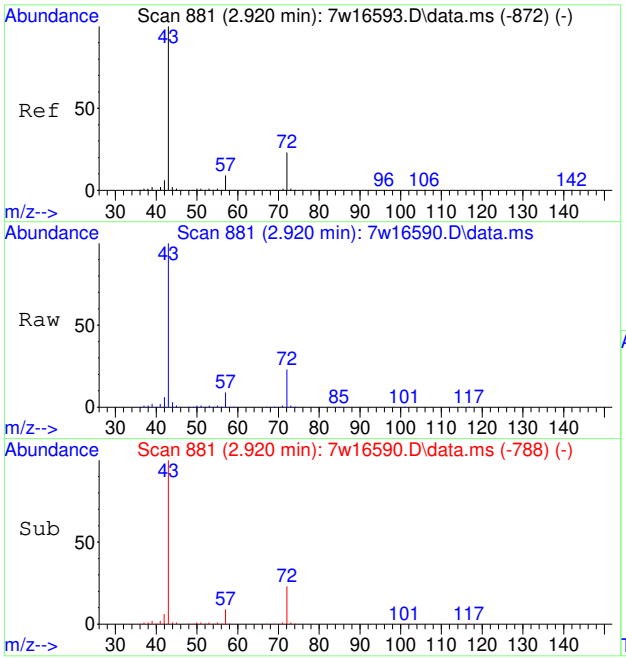


#40
1,1-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 250914

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.8	40.6
83	11.9	10.6	19.6

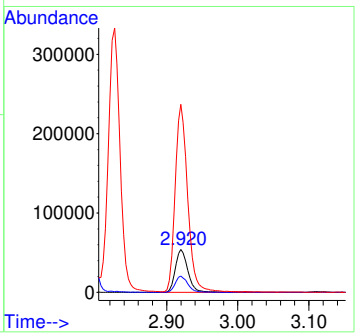


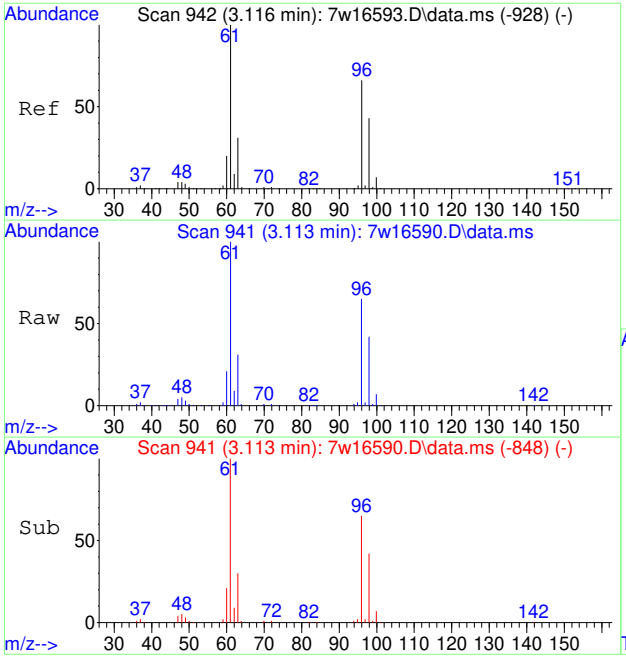


#41
METHYL ETHYL KETONE
Concen: 10.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 72 Resp: 65983

Ion	Ratio	Lower	Upper
72	100		
57	38.4	20.3	37.7#
43	442.0	282.8	525.2

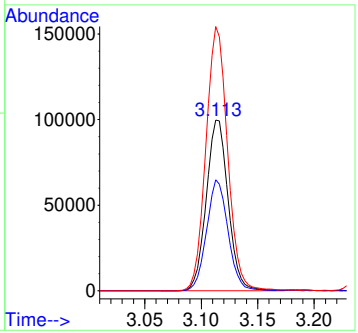


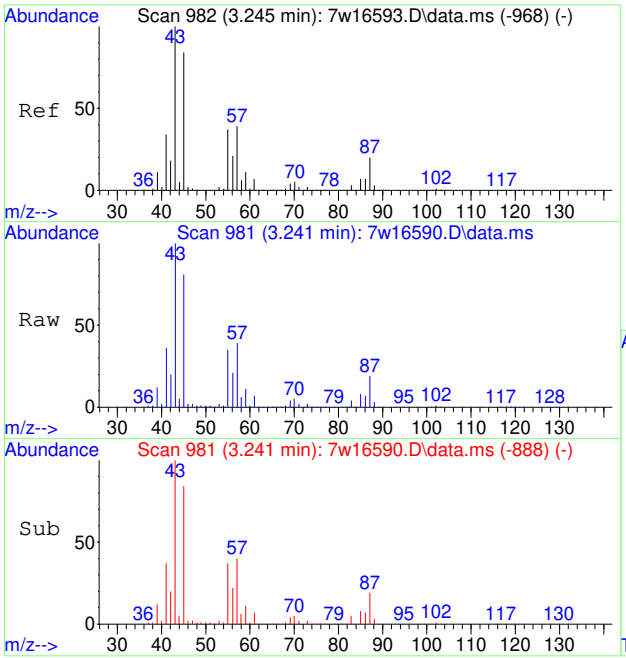


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.34 PPBV
RT: 3.113 min Scan# 941
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 96 Resp: 134402

Ion	Ratio	Lower	Upper
96	100		
98	63.9	46.8	86.8
61	153.3	78.3	145.5#

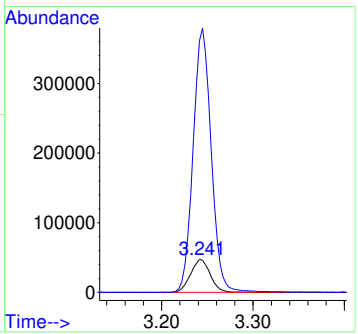




#43
DIISOPROPYL ETHER
Concen: 10.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

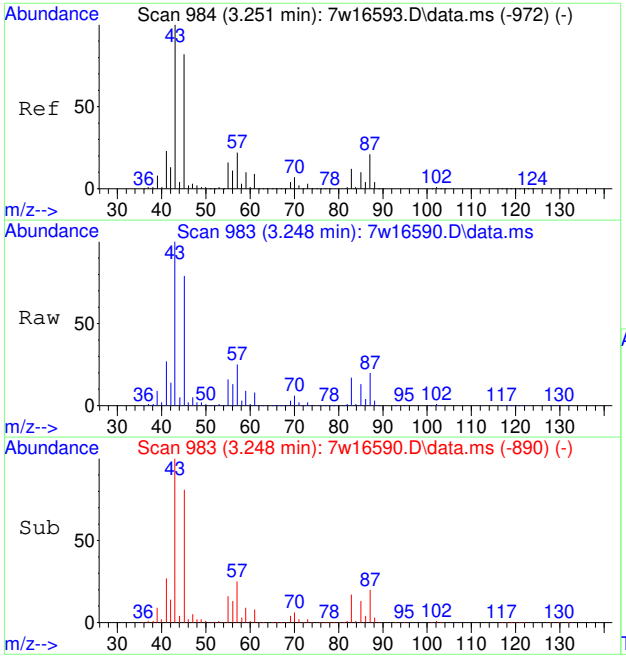
Tgt Ion: 59 Resp: 70916

Ion	Ratio	Lower	Upper
59	100		
45	739.4	532.1	988.1



7.7.18

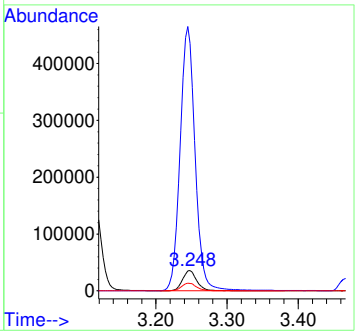
7

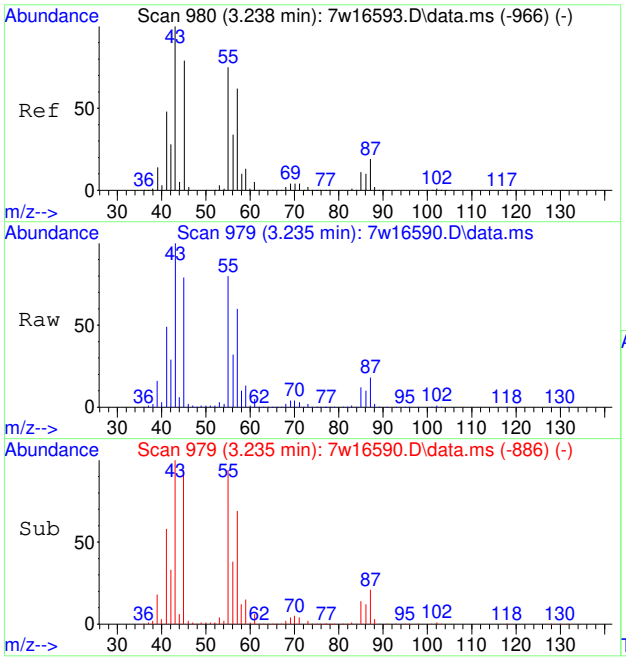


#44
ETHYL ACETATE
Concen: 10.49 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 61 Resp: 50059

Ion	Ratio	Lower	Upper
61	100		
43	1364.9	1127.5	2093.9
88	39.4	36.2	67.2

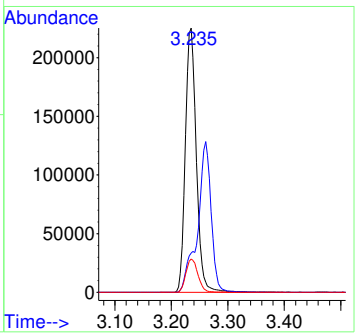


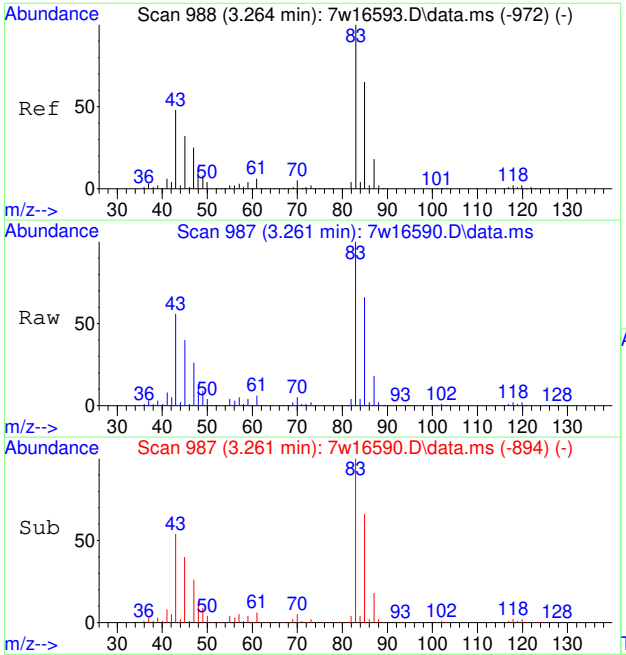


#45
METHYL ACRYLATE
Concen: 10.50 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 305217

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.8	9.2	17.0

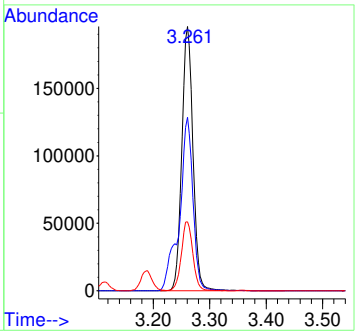


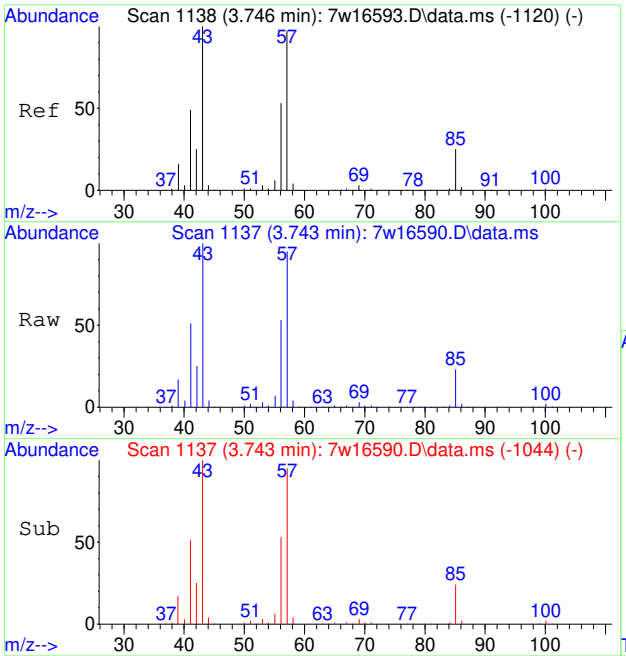


#46
CHLOROFORM
Concen: 10.50 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 269897

Ion	Ratio	Lower	Upper
83	100		
85	80.0	54.6	101.4
47	27.2	17.9	33.3

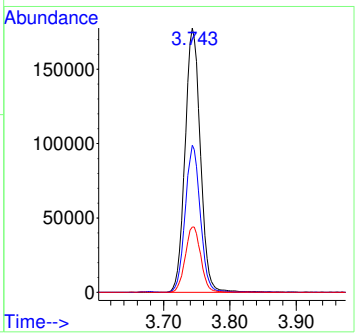


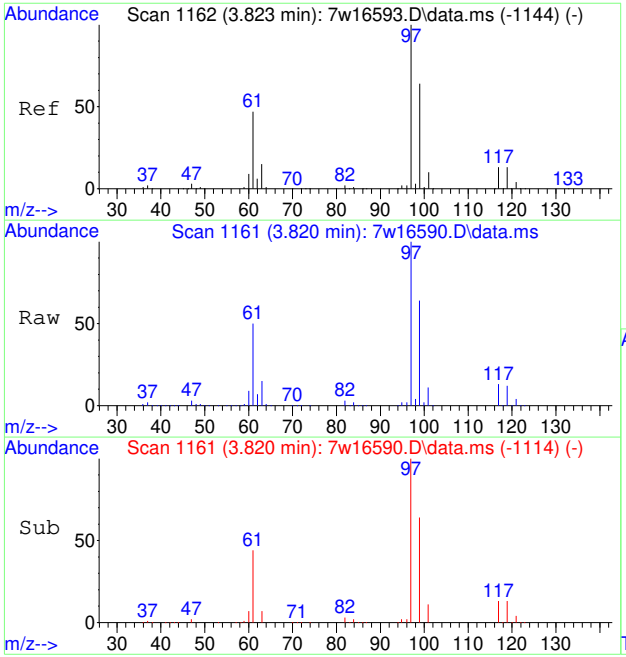


#47
2,4-DIMETHYLPENTANE
Concen: 10.70 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 286654

Ion	Ratio	Lower	Upper
57	100		
56	54.8	39.2	72.8
85	25.0	24.1	44.7

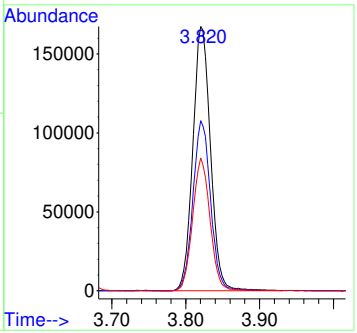


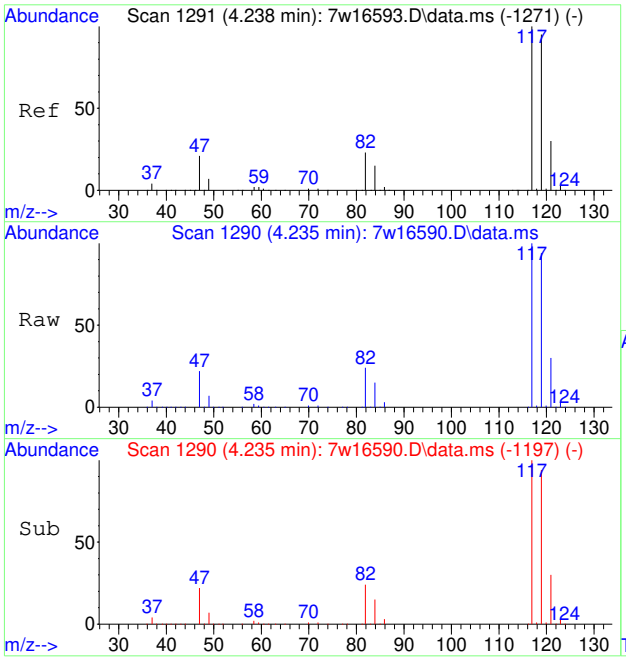


#48
1,1,1-TRICHLOROETHANE
Concen: 10.38 PPBV
RT: 3.820 min Scan# 1161
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 97 Resp: 278334

Ion	Ratio	Lower	Upper
97	100		
99	64.3	44.9	83.5
61	49.6	28.6	53.0

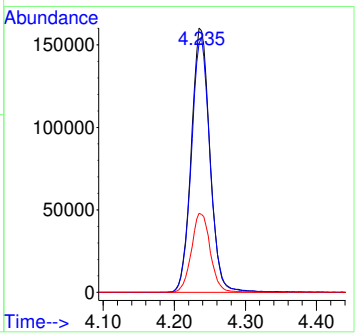


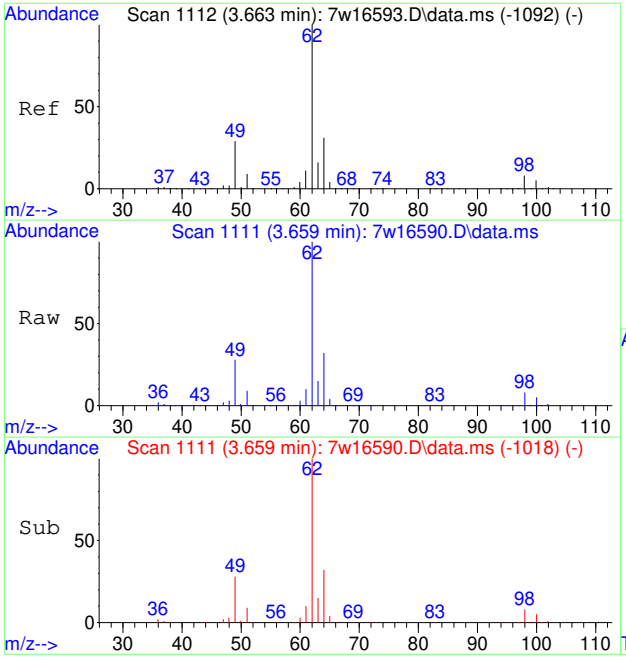


#49
CARBON TETRACHLORIDE
Concen: 10.20 PPBV
RT: 4.235 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 291854

Ion	Ratio	Lower	Upper
117	100		
119	96.4	68.8	127.8
121	30.4	22.2	41.2

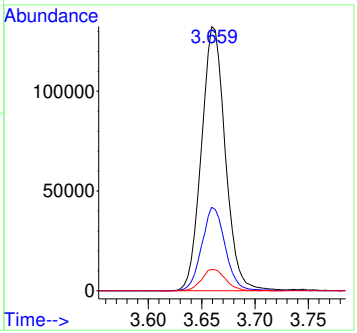


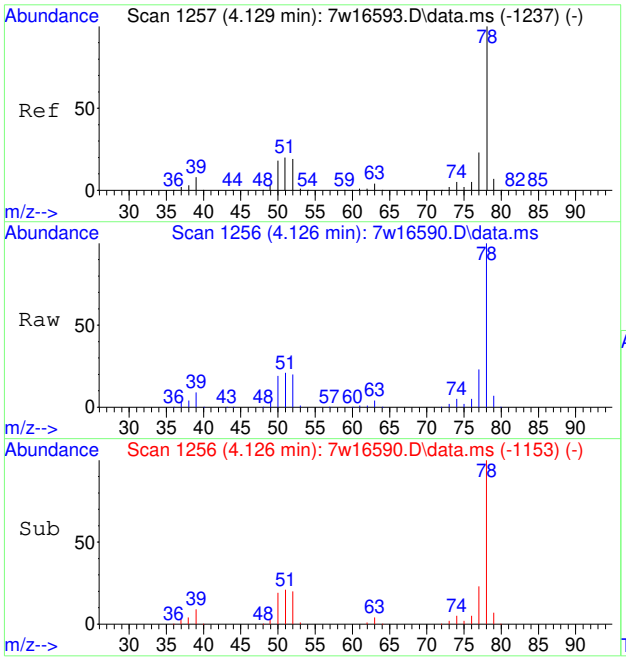


#50
1,2-DICHLOROETHANE
Concen: 10.20 PPBV
RT: 3.659 min Scan# 1111
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 62 Resp: 205888

Ion	Ratio	Lower	Upper
62	100		
64	31.2	22.5	41.7
98	8.3	6.8	12.6

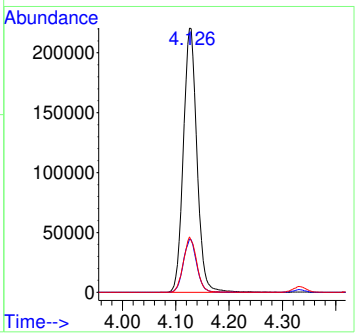


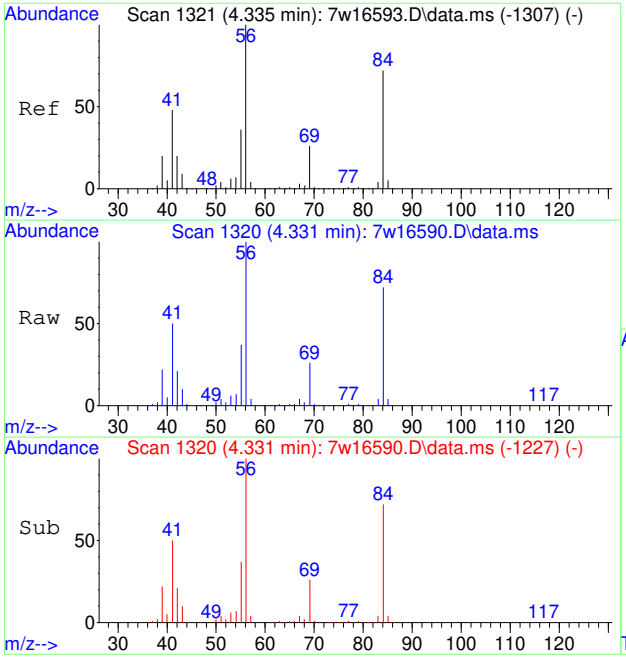


#51
BENZENE
Concen: 10.41 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 78 Resp: 391334

Ion	Ratio	Lower	Upper
78	100		
52	19.9	0.0	44.6
51	20.6	0.0	47.3

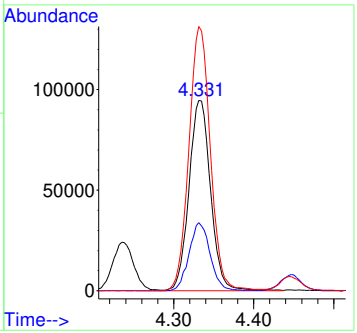


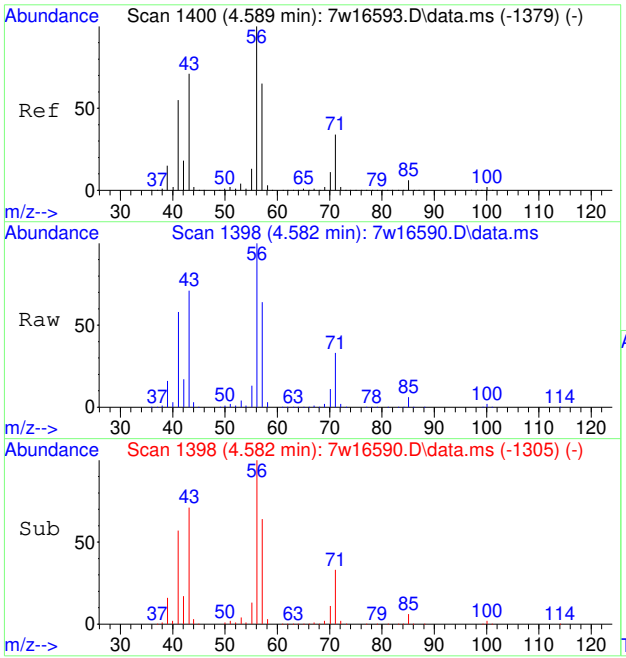


#53
CYCLOHEXANE
Concen: 10.40 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 84 Resp: 177560

Ion	Ratio	Lower	Upper
84	100		
69	35.1	22.3	41.5
56	137.7	70.2	130.4#

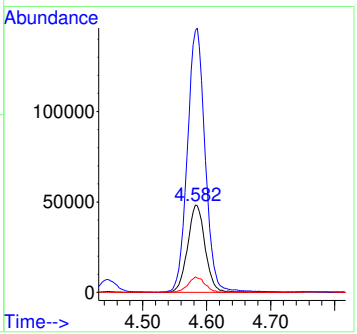


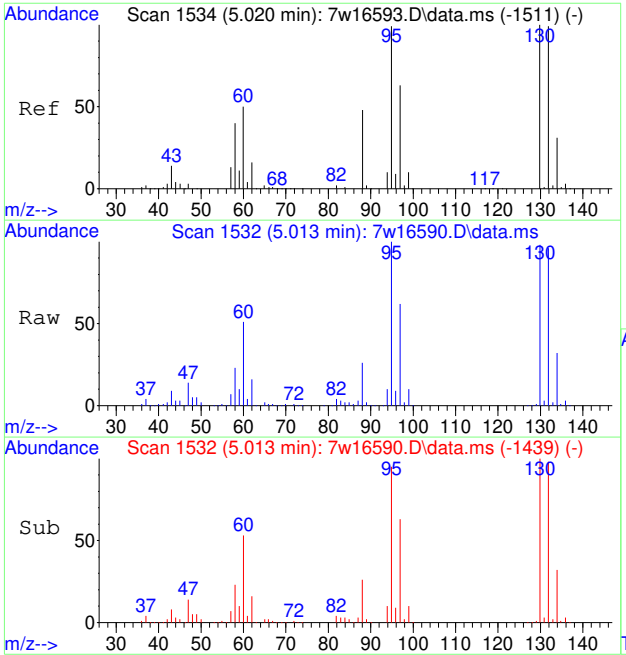


#54
2,3-DIMETHYLPENTANE
Concen: 10.60 PPBV
RT: 4.582 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 71 Resp: 92078

Ion	Ratio	Lower	Upper
71	100		
56	304.6	171.4	318.4
85	17.4	12.6	23.4

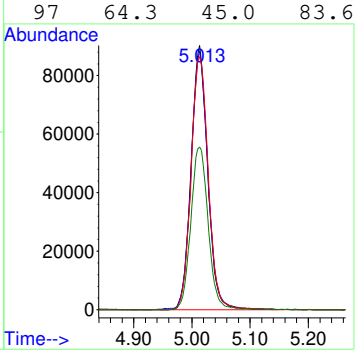


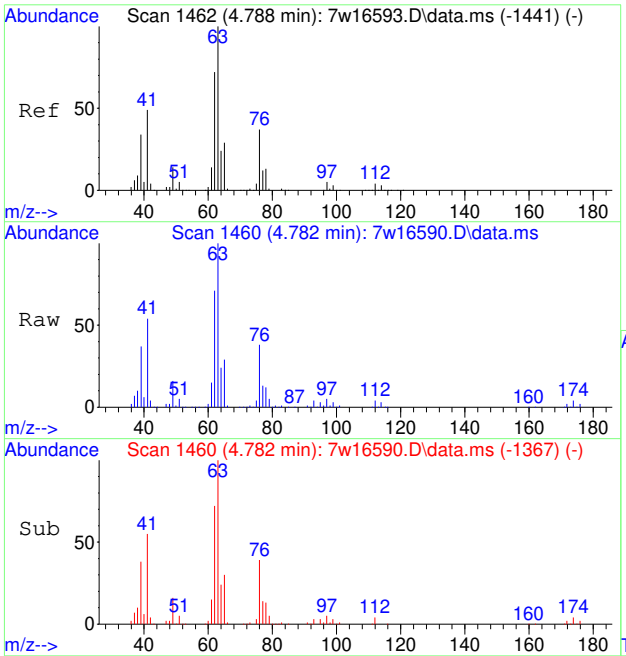


#55
TRICHLOROETHENE
Concen: 9.90 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 95 Resp: 180016

Ion	Ratio	Lower	Upper
95	100		
130	99.2	85.9	159.5
132	99.1	79.4	147.4
97	64.3	45.0	83.6

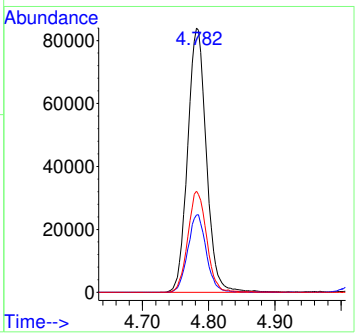


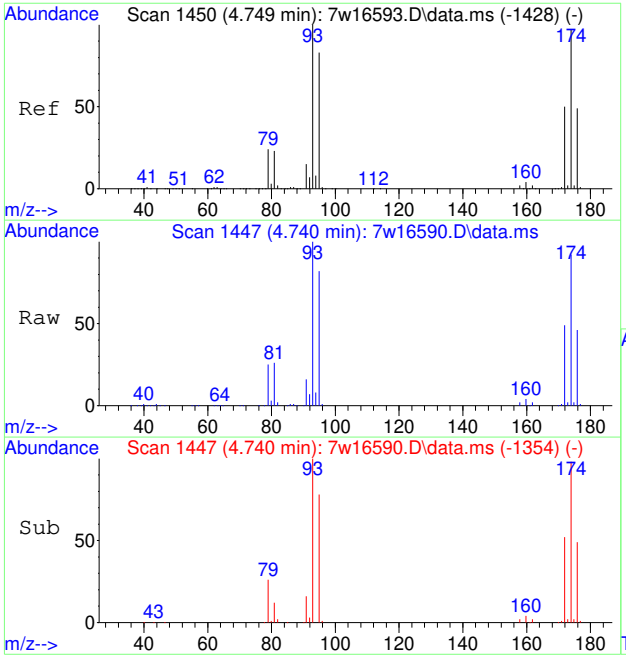


#56
1,2-DICHLOROPROPANE
Concen: 10.30 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 63 Resp: 164997

Ion	Ratio	Lower	Upper
63	100		
65	29.3	22.6	42.0
76	38.7	31.8	59.0

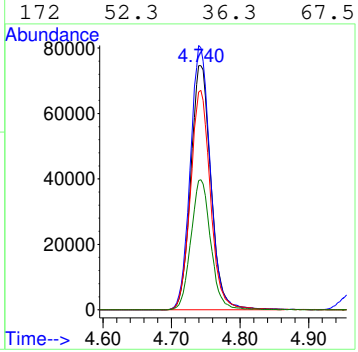


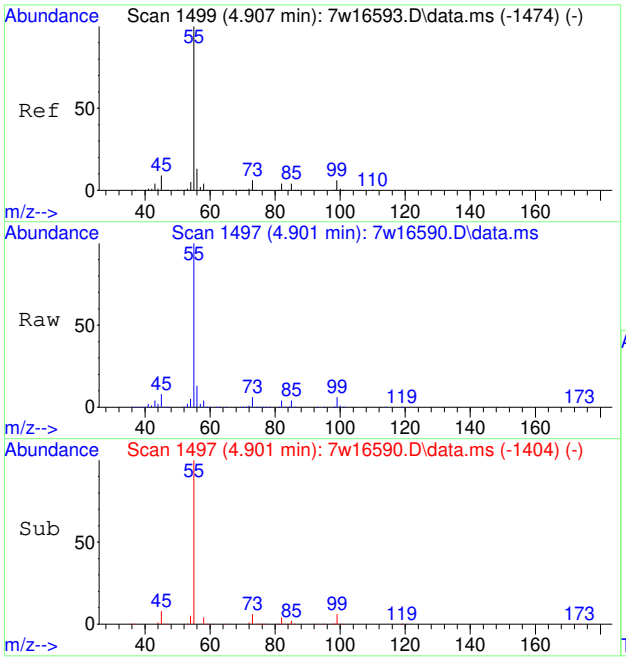


#57
DIBROMOMETHANE
Concen: 10.28 PPBV
RT: 4.740 min Scan# 1447
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:174 Resp: 152742

Ion	Ratio	Lower	Upper
174	100		
93	107.6	67.3	125.1
95	89.1	56.8	105.6
172	52.3	36.3	67.5

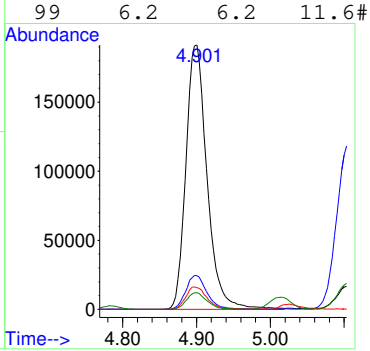


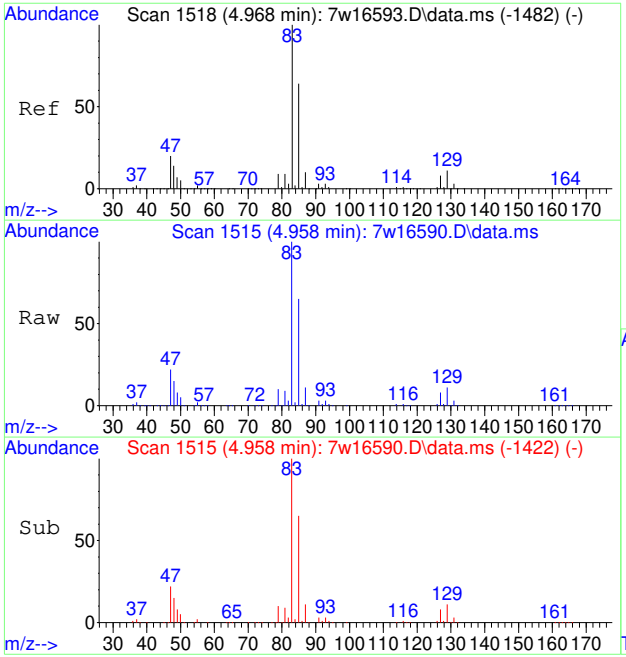


#58
ETHYL ACRYLATE
Concen: 10.50 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 55 Resp: 381569

Ion	Ratio	Lower	Upper
55	100		
56	13.0	7.9	14.7
45	8.7	6.6	12.2
99	6.2	6.2	11.6#

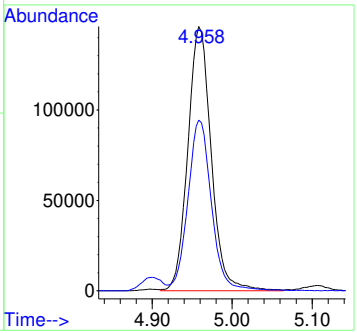


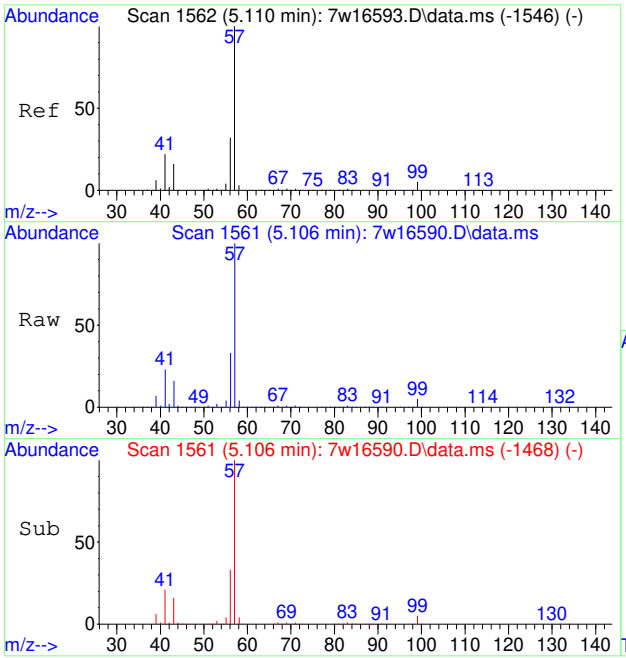


#59
BROMODICHLOROMETHANE
Concen: 9.90 PPBV
RT: 4.958 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 297999

Ion	Ratio	Lower	Upper
83	100		
85	65.2	44.9	83.5

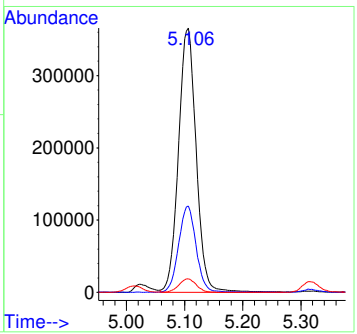


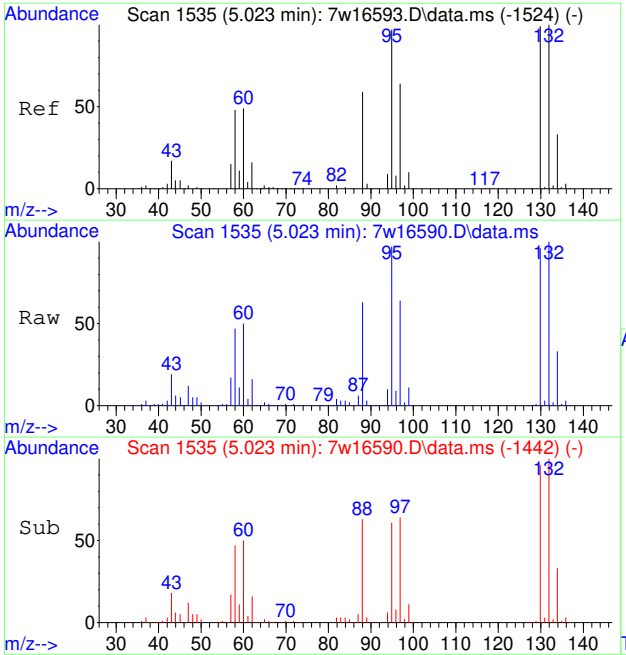


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.20 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 57 Resp: 772831

Ion	Ratio	Lower	Upper
57	100		
56	32.3	24.4	45.2
99	5.2	5.2	9.6#

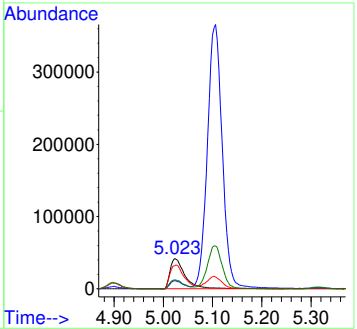


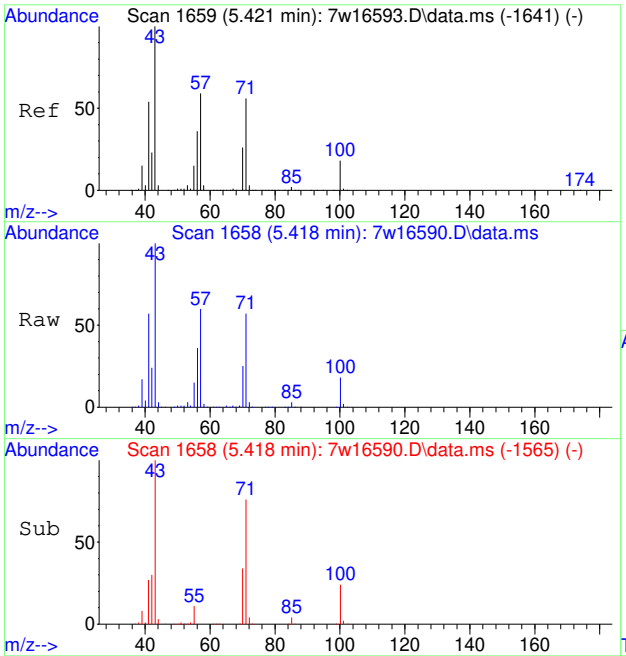


#61
1,4-DIOXANE
Concen: 9.94 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 88 Resp: 89212

Ion	Ratio	Lower	Upper
88	100		
57	23.8	13.1	24.3
58	74.9	39.1	72.5#
43	26.4	18.3	33.9

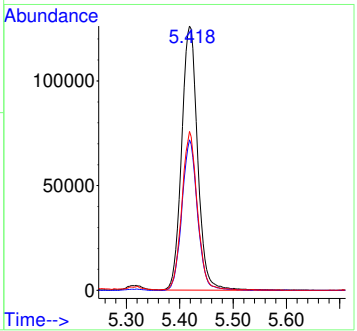


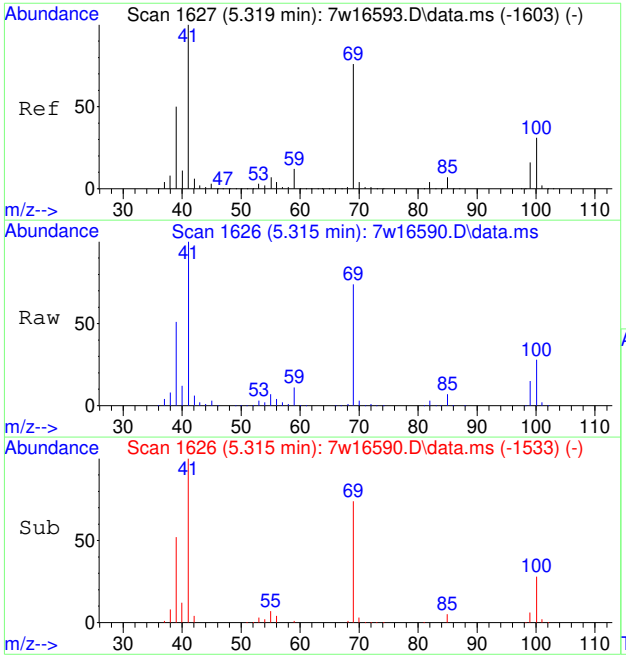


#62
HEPTANE
Concen: 10.40 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 263524

Ion	Ratio	Lower	Upper
43	100		
71	55.5	45.0	83.6
57	57.9	37.2	69.0

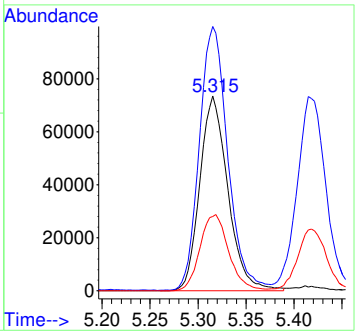


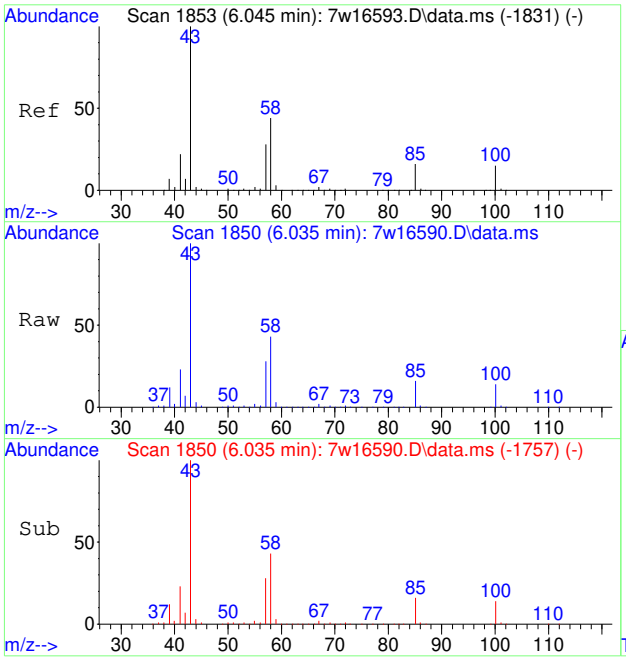


#63
METHYL METHACRYLATE
Concen: 10.30 PPBV
RT: 5.315 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 149851

Ion	Ratio	Lower	Upper
69	100		
41	136.5	84.3	156.5
100	40.1	30.8	57.2

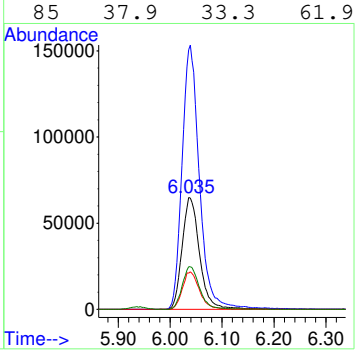


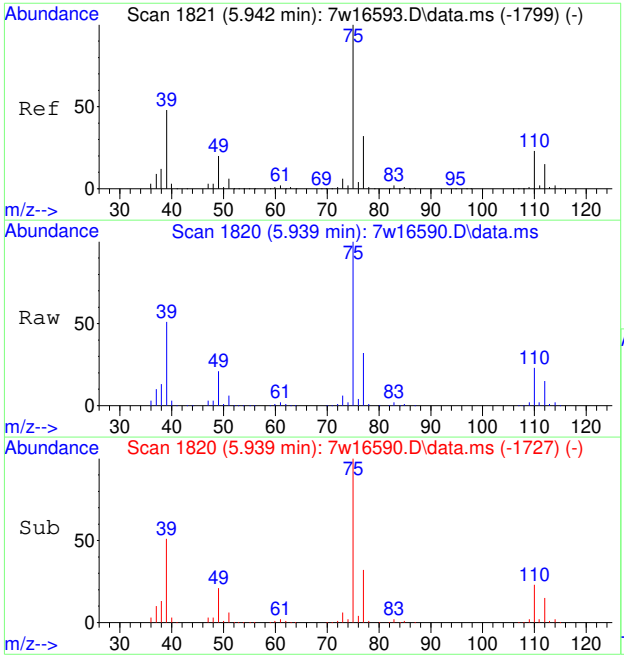


#64
METHYL ISOBUTYL KETONE
Concen: 10.20 PPBV
RT: 6.035 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 152356

Ion	Ratio	Lower	Upper
58	100		
43	234.0	193.8	360.0
100	33.2	32.8	60.8
85	37.9	33.3	61.9

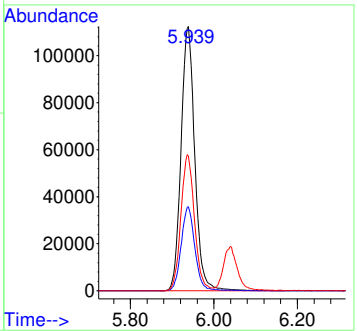


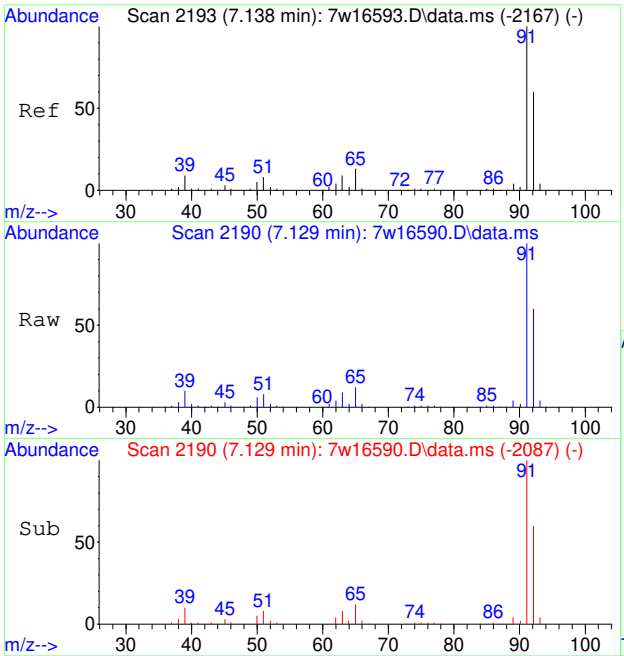


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.12 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 257147

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	40.8
39	51.0	38.5	71.5

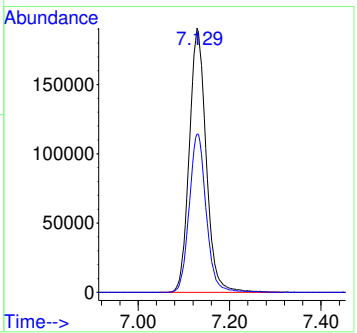


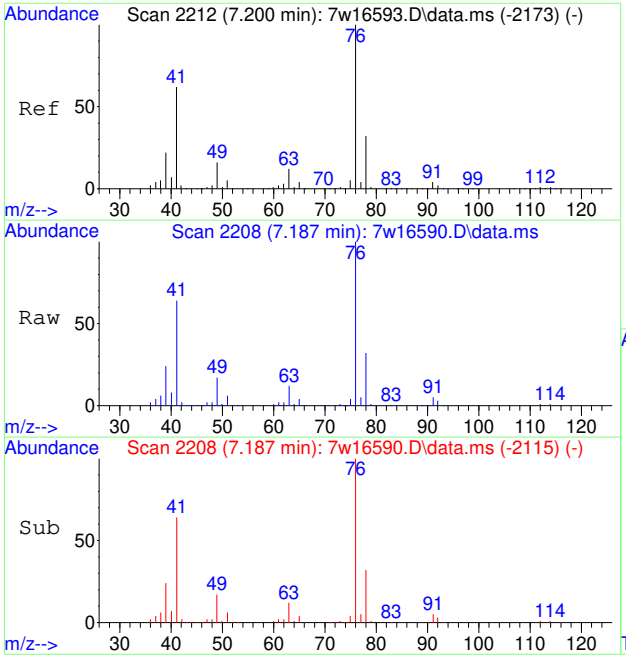


#66
TOLUENE
Concen: 10.60 PPBV
RT: 7.129 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 488762

Ion	Ratio	Lower	Upper
91	100		
92	60.3	28.1	88.1

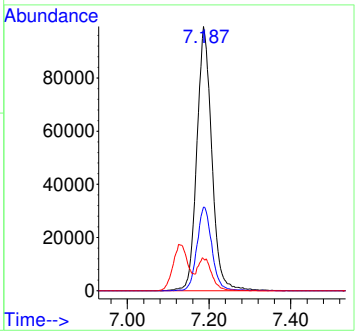


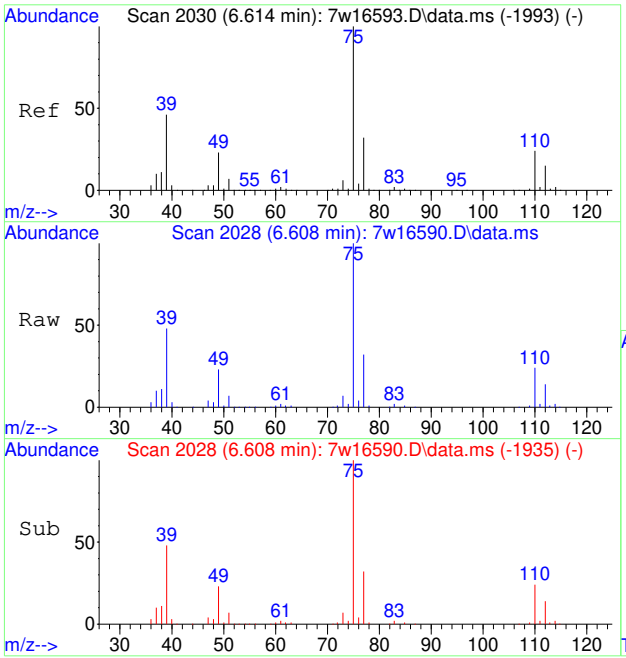


#67
1,3-DICHLOROPROPANE
Concen: 10.60 PPBV
RT: 7.187 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 76 Resp: 252760

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	11.9	8.0	14.8

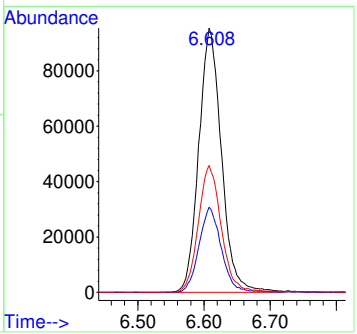


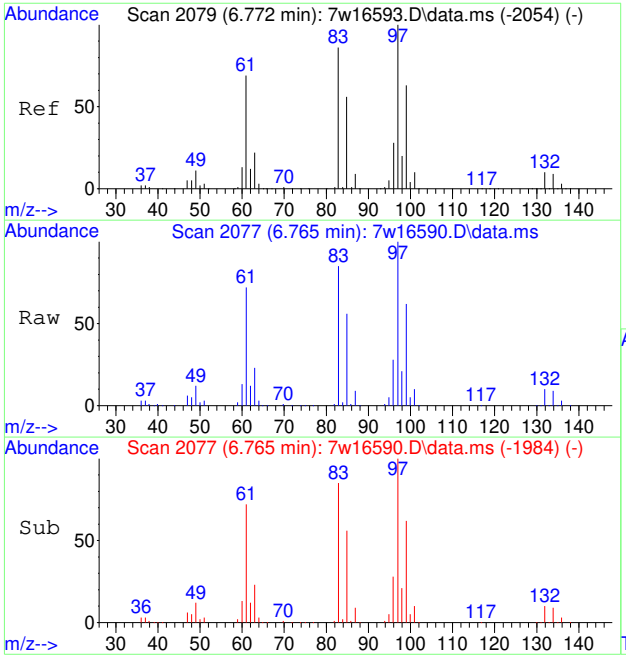


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 9.56 PPBV
RT: 6.608 min Scan# 2028
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 227014

Ion	Ratio	Lower	Upper
75	100		
77	31.9	22.5	41.7
39	48.5	37.2	69.0

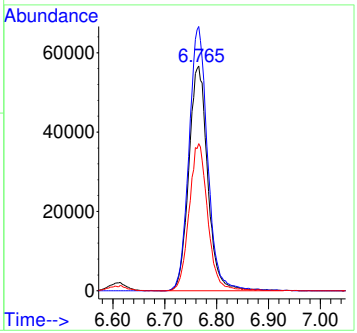


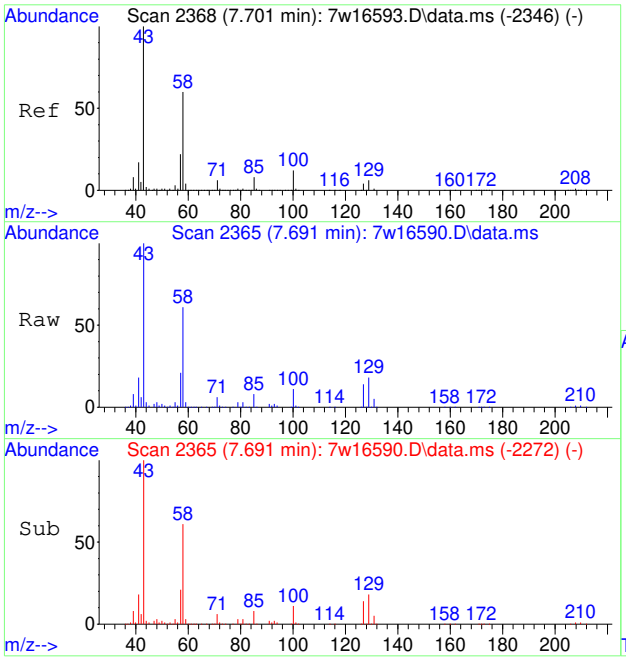


#69
1,1,2-TRICHLOROETHANE
Concen: 10.50 PPBV
RT: 6.765 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 143412

Ion	Ratio	Lower	Upper
83	100		
97	116.0	86.7	160.9
85	64.4	45.5	84.5

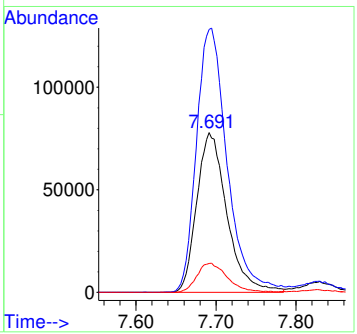


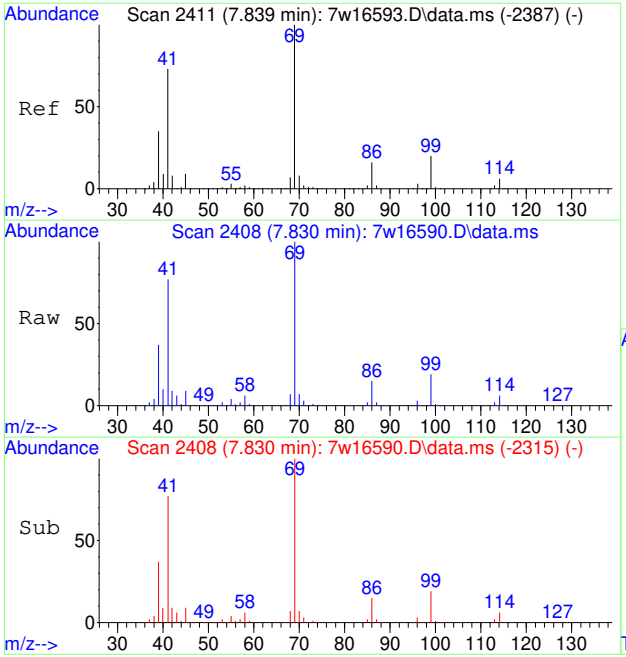


#70
2-HEXANONE
Concen: 10.38 PPBV
RT: 7.691 min Scan# 2365
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 58 Resp: 203944

Ion	Ratio	Lower	Upper
58	100		
43	169.4	141.7	263.3
100	18.6	18.9	35.1#

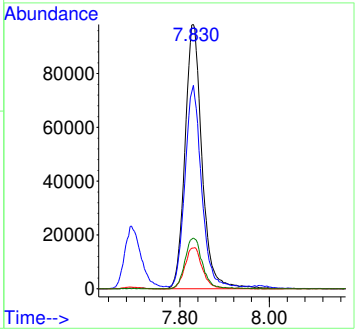


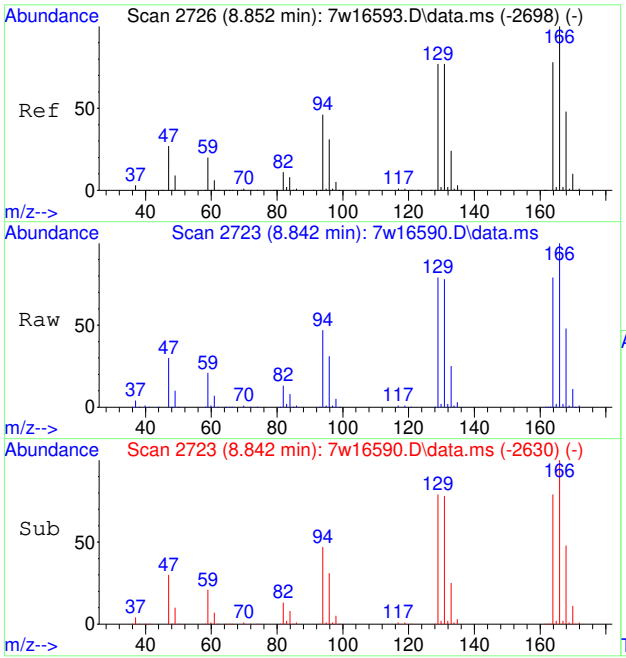


#71
ETHYL METHACRYLATE
Concen: 10.39 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 69 Resp: 260130

Ion	Ratio	Lower	Upper
69	100		
41	76.6	49.3	91.6
86	16.1	11.6	21.6
99	19.7	13.4	24.8

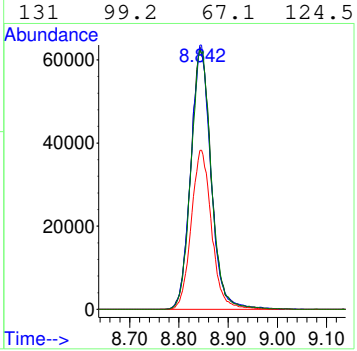


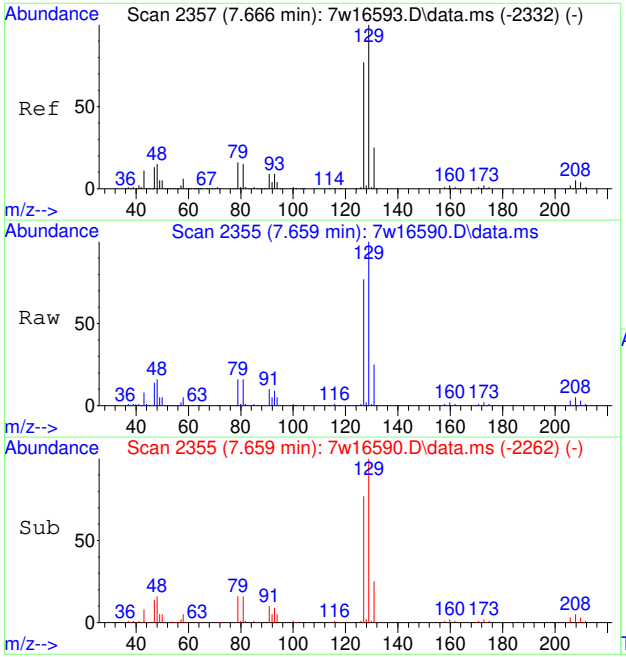


#72
TETRACHLOROETHENE
Concen: 10.70 PPBV
RT: 8.842 min Scan# 2723
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:164 Resp: 181618

Ion	Ratio	Lower	Upper
164	100		
129	99.4	69.7	129.5
168	60.7	43.4	80.6
131	99.2	67.1	124.5

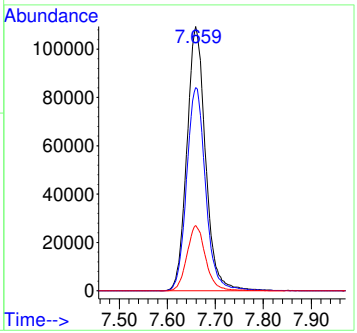


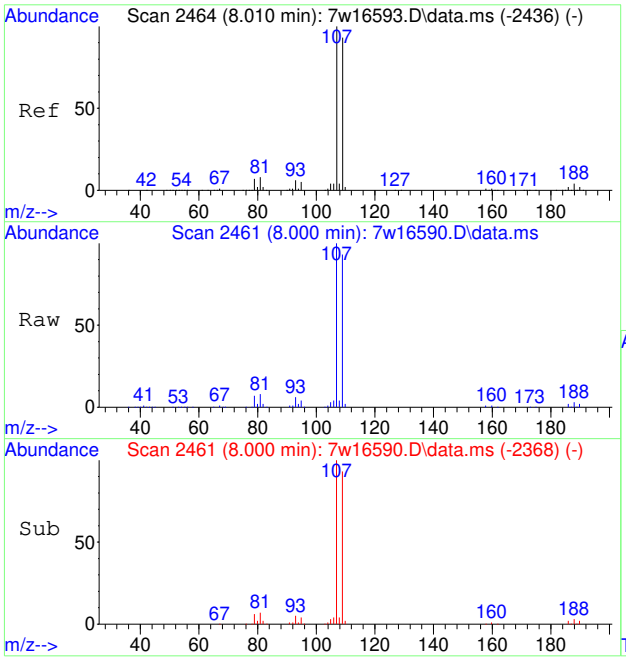


#73
DIBROMOCHLOROMETHANE
Concen: 10.40 PPBV
RT: 7.659 min Scan# 2355
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:129 Resp: 295382

Ion	Ratio	Lower	Upper
129	100		
127	78.2	53.0	98.4
131	24.9	16.9	31.3

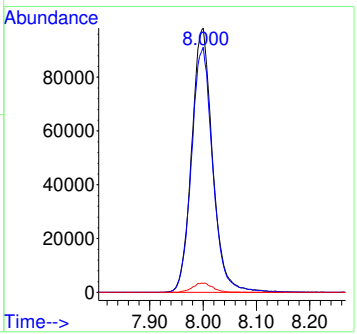


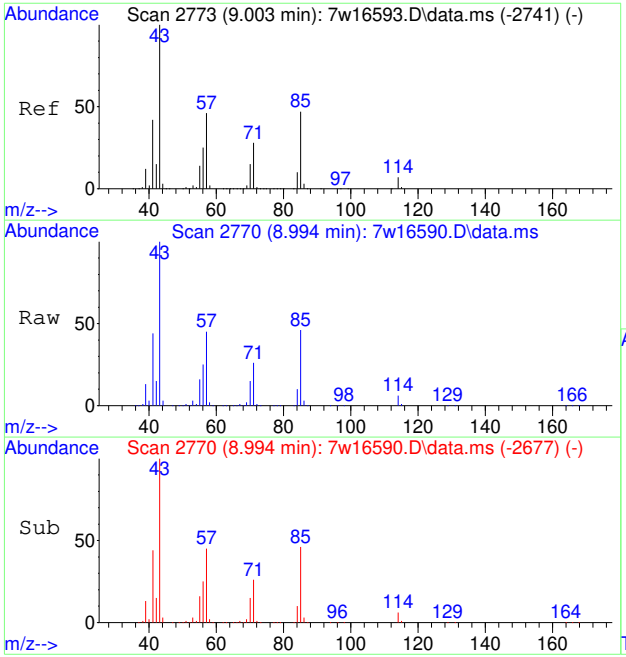


#74
1,2-DIBROMOETHANE
Concen: 10.99 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:107 Resp: 267727

Ion	Ratio	Lower	Upper
107	100		
109	94.5	65.7	122.1
188	3.5	2.4	4.4

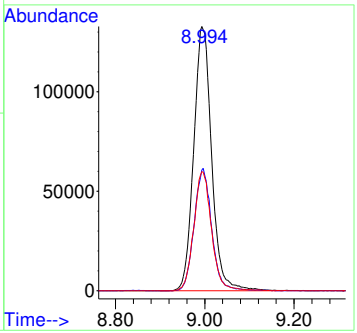


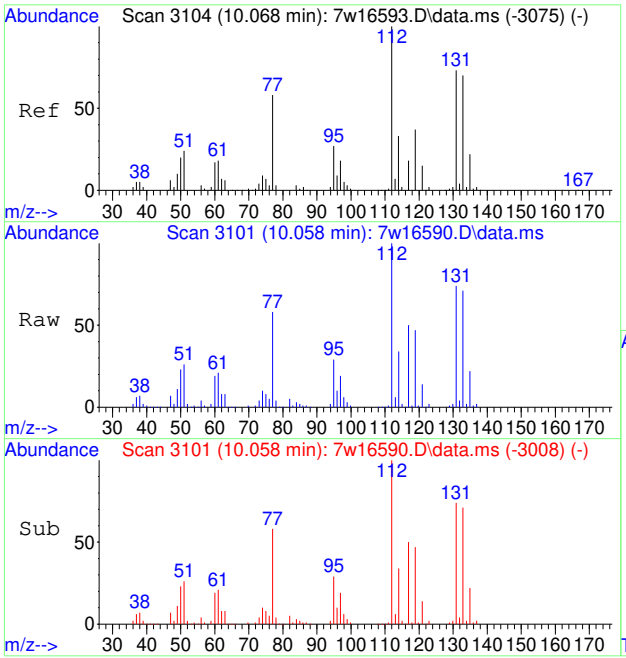


#75
OCTANE
Concen: 10.70 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 371213

Ion	Ratio	Lower	Upper
43	100		
85	45.4	36.5	67.9
57	44.8	27.6	51.2

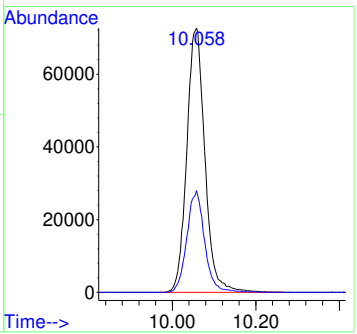


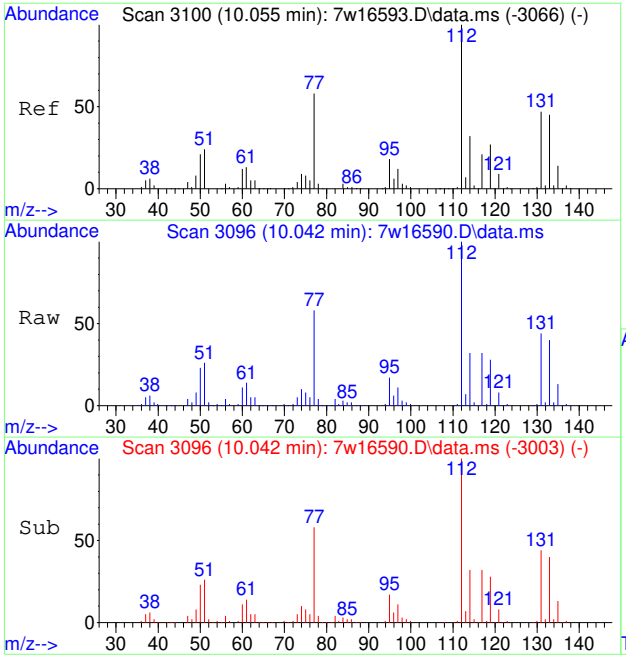


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 10.90 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:131 Resp: 219545

Ion	Ratio	Lower	Upper
131	100		
95	37.8	23.7	43.9

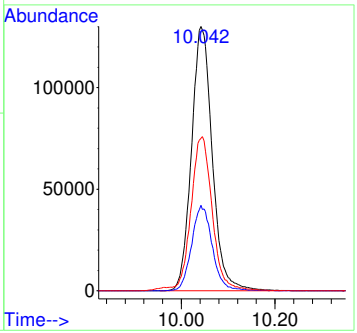


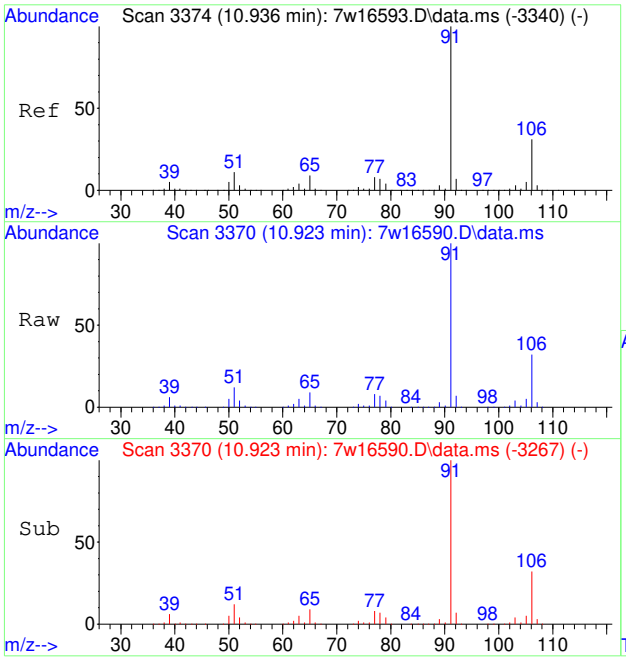


#78
CHLOROBENZENE
Concen: 10.90 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:112 Resp: 401465

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.9	42.5
77	60.1	34.4	63.8

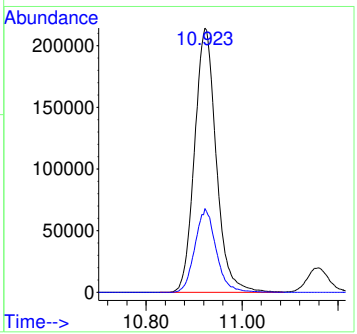


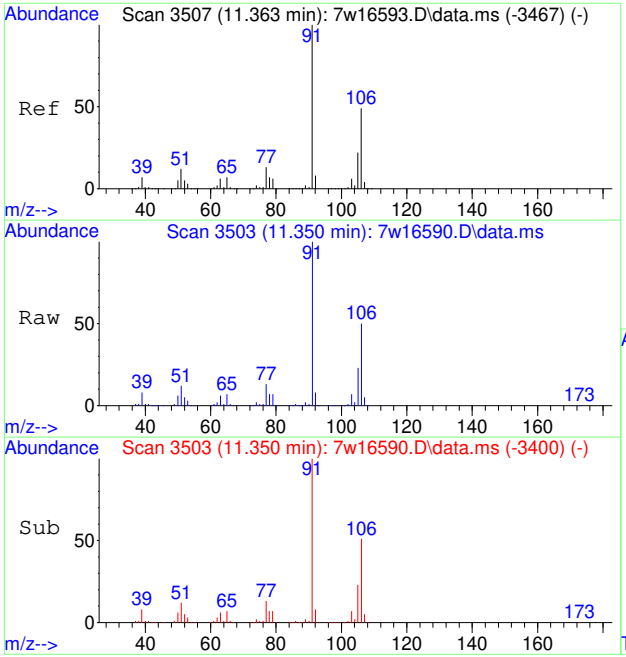


#79
ETHYLBENZENE
Concen: 11.00 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 667794

Ion	Ratio	Lower	Upper
91	100		
106	31.1	2.8	62.8

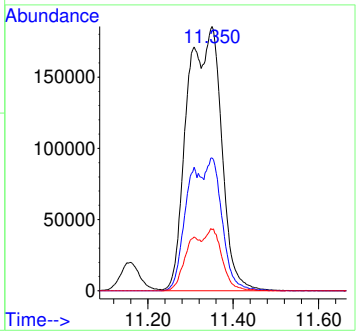


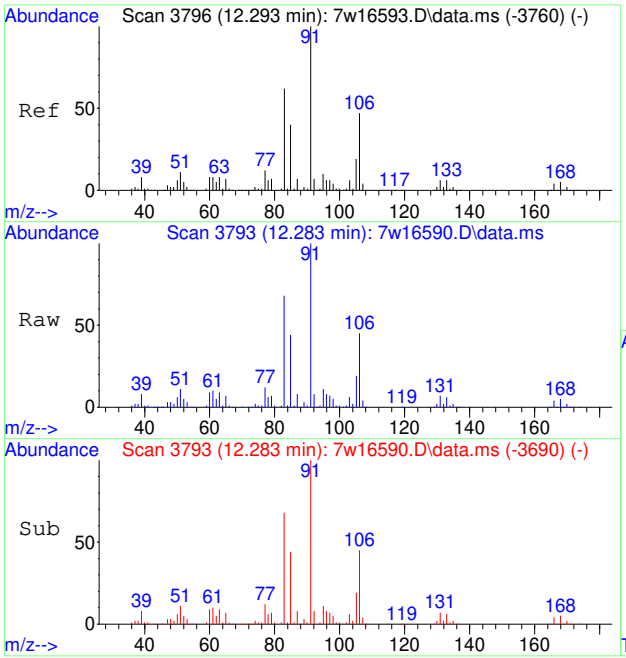


#80
M,P-XYLENE
Concen: 21.20 PPBV
RT: 11.350 min Scan# 3503
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 1033120

Ion	Ratio	Lower	Upper
91	100		
106	26.1	0.0	58.7
105	12.1	0.0	43.2

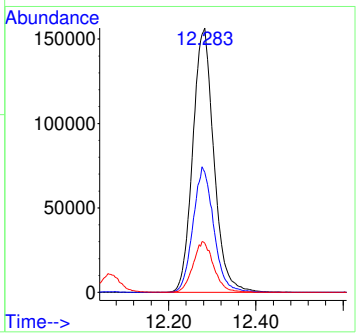


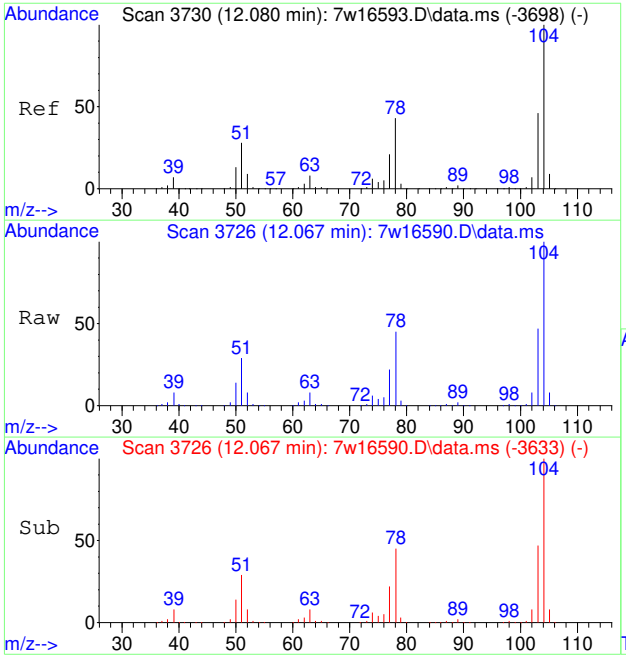


#81
O-XYLENE
Concen: 11.00 PPBV
RT: 12.283 min Scan# 3793
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 525465

Ion	Ratio	Lower	Upper
91	100		
106	45.4	34.1	63.3
105	18.6	14.6	27.2

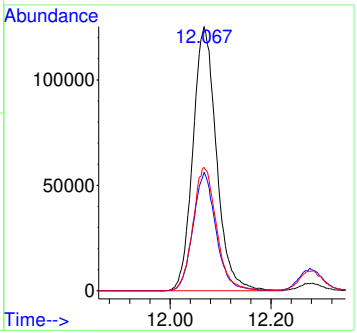


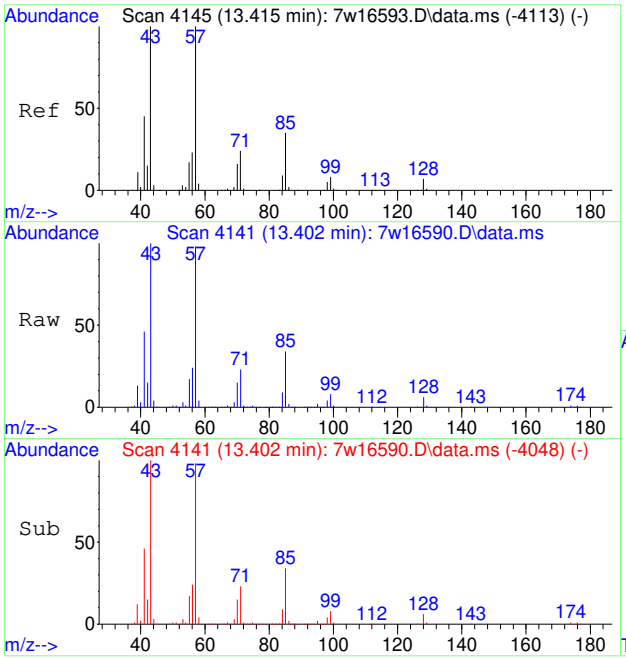


#82
STYRENE
Concen: 10.90 PPBV
RT: 12.067 min Scan# 3726
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:104 Resp: 405889

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	46.9	33.2	61.7

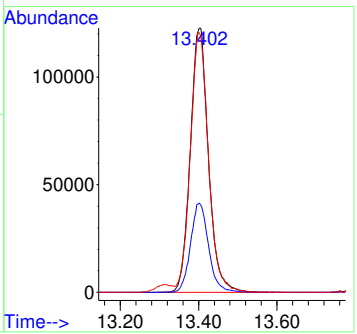


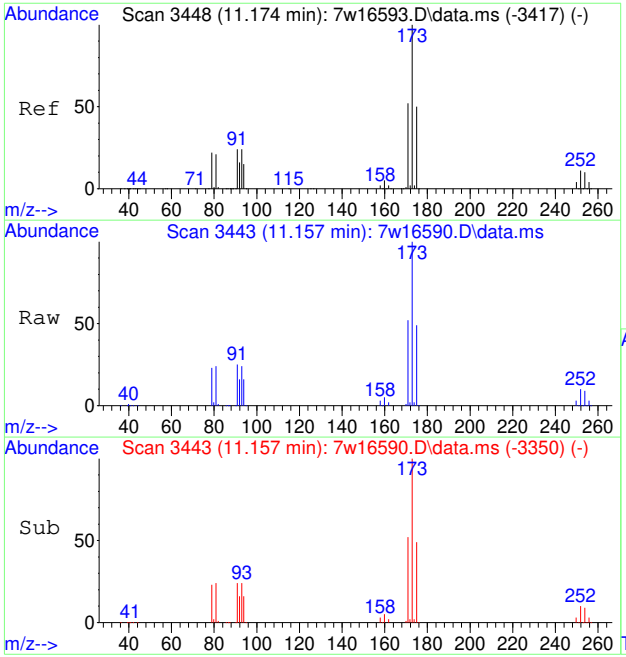


#83
NONANE
Concen: 10.80 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 43 Resp: 395697

Ion	Ratio	Lower	Upper
43	100		
85	33.4	27.6	51.2
57	98.9	56.4	104.7

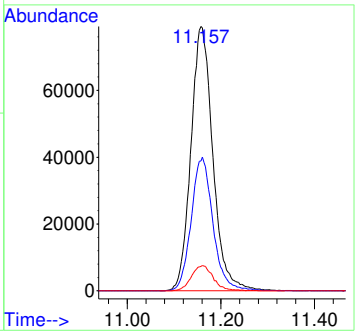


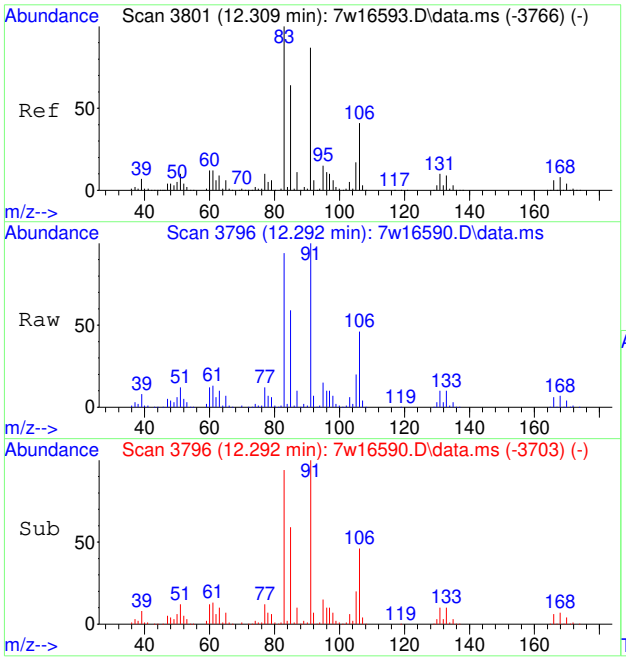


#84
BROMOFORM
Concen: 10.60 PPBV
RT: 11.157 min Scan# 3443
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:173 Resp: 257628

Ion	Ratio	Lower	Upper
173	100		
175	50.1	33.0	61.4
254	9.6	5.9	10.9

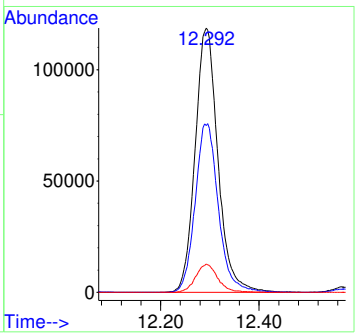


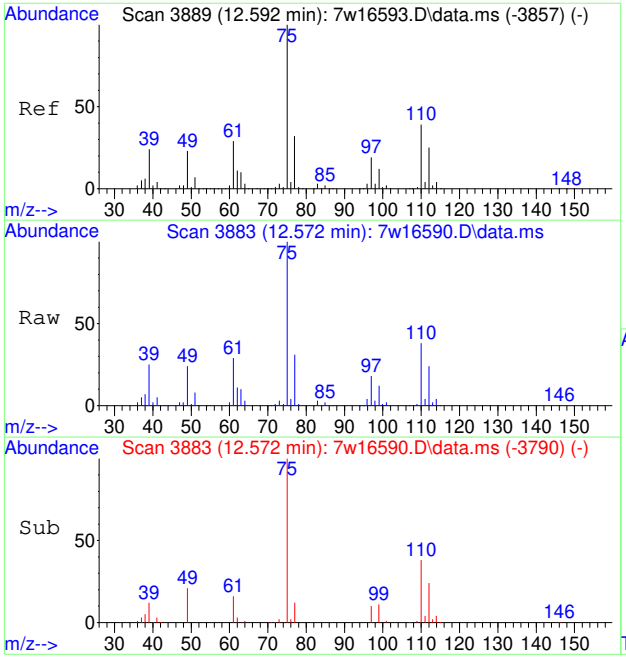


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 10.99 PPBV
RT: 12.292 min Scan# 3796
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 83 Resp: 382601

Ion	Ratio	Lower	Upper
83	100		
85	65.0	44.6	82.8
131	10.4	8.0	14.8

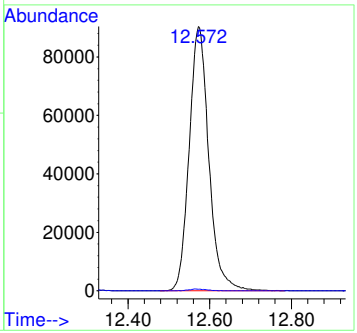


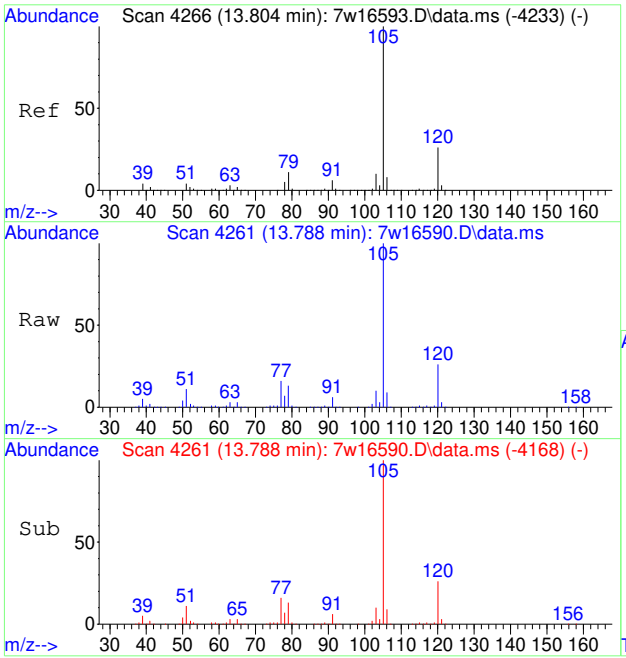


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.00 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 75 Resp: 301186

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

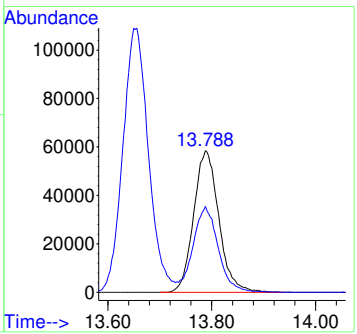


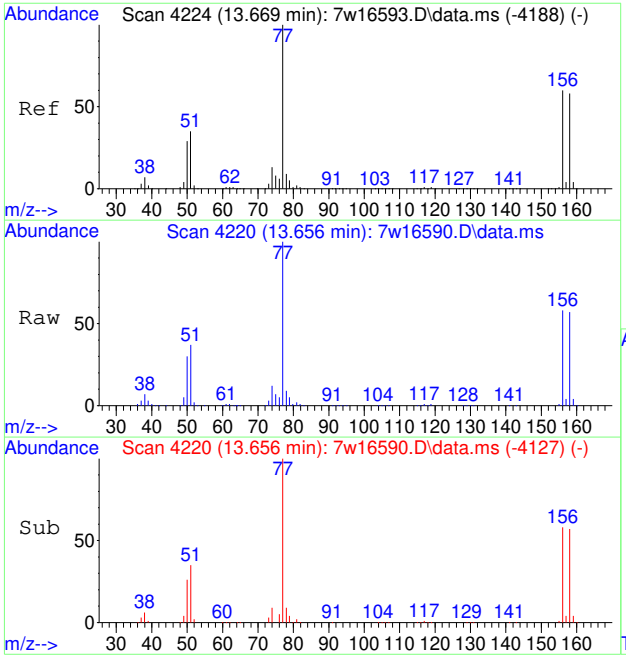


#88
ISOPROPYLBENZENE
Concen: 10.80 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 197546

Ion	Ratio	Lower	Upper
120	100		
77	60.7	36.0	67.0

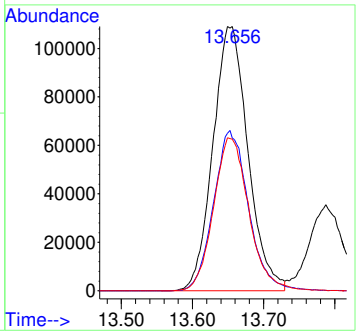


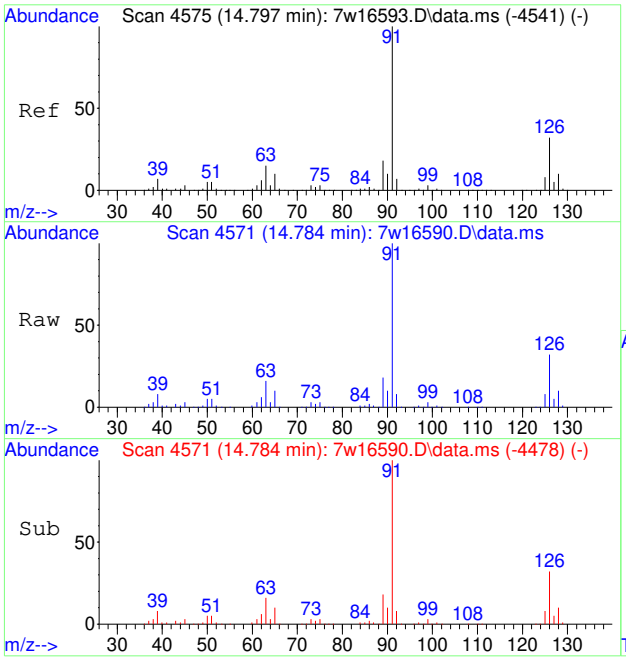


#89
BROMOBENZENE
Concen: 10.80 PPBV
RT: 13.656 min Scan# 4220
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 77 Resp: 373873

Ion	Ratio	Lower	Upper
77	100		
156	60.6	57.9	107.5
158	58.5	55.7	103.5

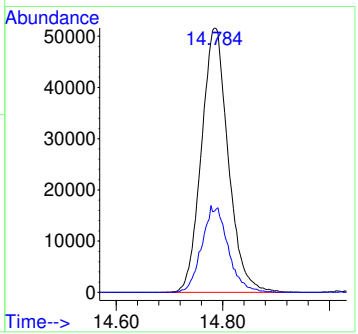


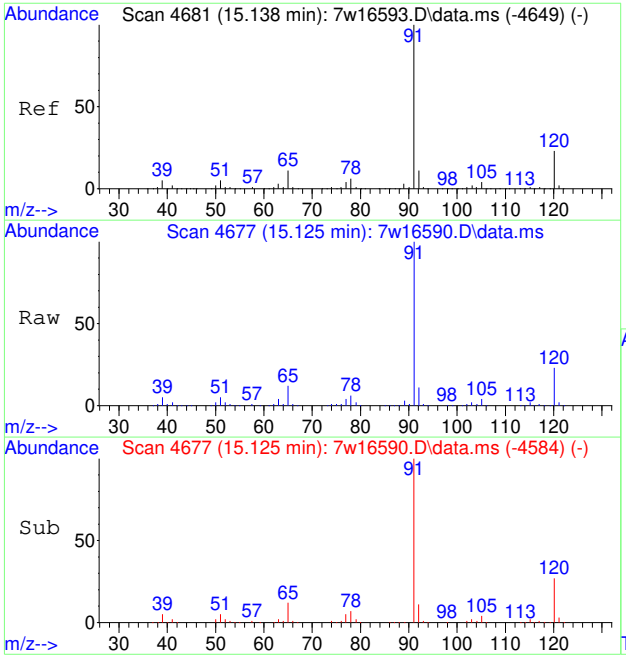


#90
2-CHLOROTOLUENE
Concen: 10.39 PPBV
RT: 14.784 min Scan# 4571
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:126 Resp: 179837

Ion	Ratio	Lower	Upper
126	100		
128	32.1	22.7	42.1

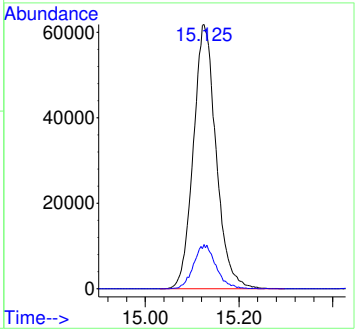


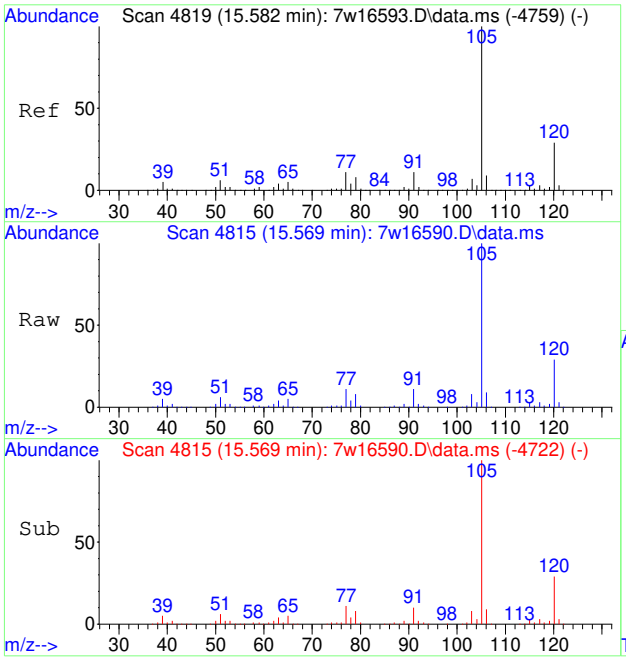


#91
N-PROPYLBENZENE
Concen: 10.50 PPBV
RT: 15.125 min Scan# 4677
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:120 Resp: 208155

Ion	Ratio	Lower	Upper
120	100		
105	16.5	10.6	19.6

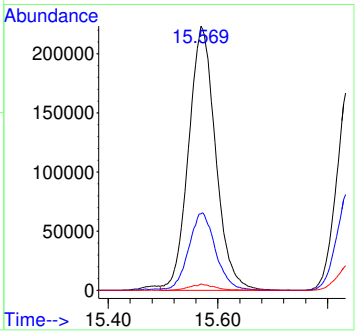


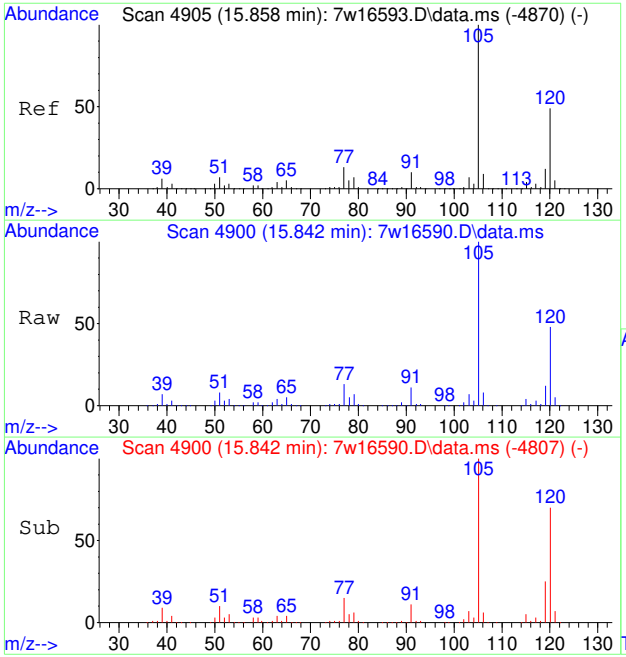


#92
4-ETHYLTOLUENE
Concen: 10.60 PPBV
RT: 15.569 min Scan# 4815
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 761814

Ion	Ratio	Lower	Upper
105	100		
120	29.6	21.8	40.4
119	2.3	1.7	3.1

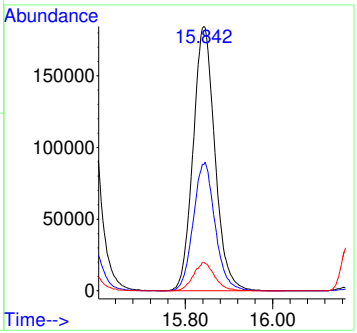


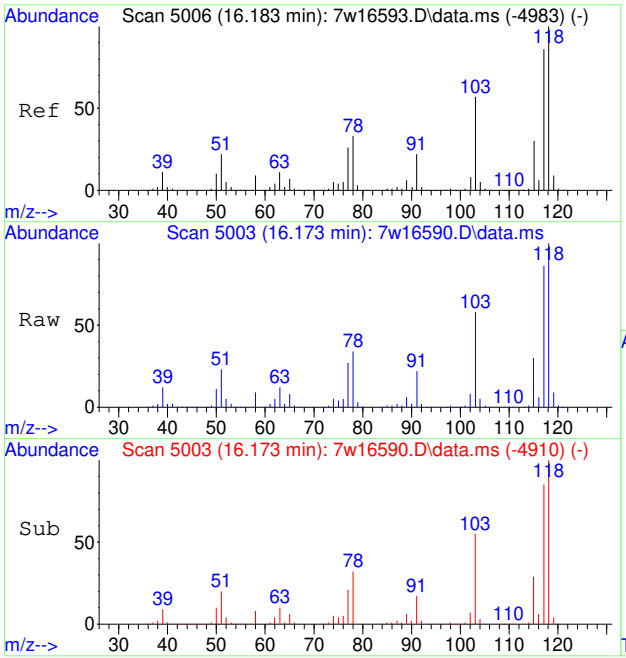


#93
1,3,5-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 15.842 min Scan# 4900
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 641174

Ion	Ratio	Lower	Upper
105	100		
120	48.6	37.2	69.2
91	10.5	7.5	13.9

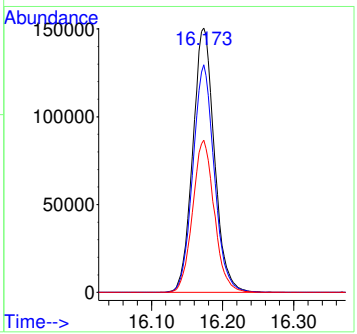


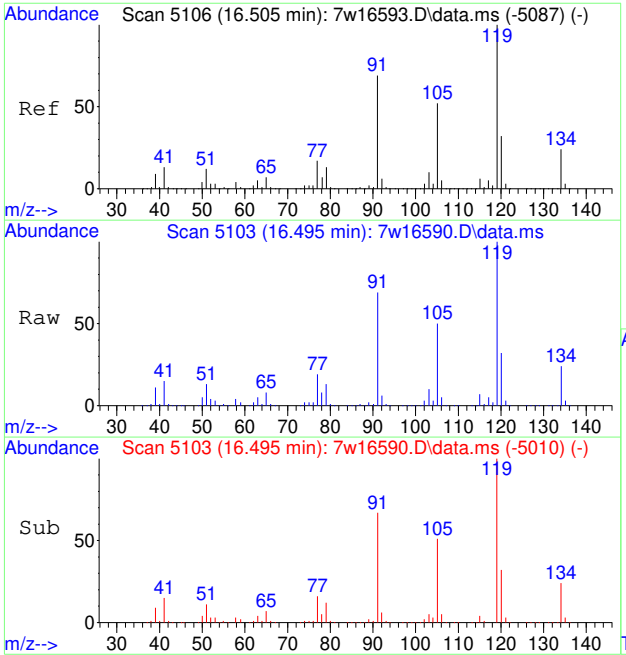


#94
ALPHA-METHYLSTYRENE
Concen: 10.40 PPBV
RT: 16.173 min Scan# 5003
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:118 Resp: 317898

Ion	Ratio	Lower	Upper
118	100		
117	85.2	59.9	111.3
103	57.6	36.2	67.2

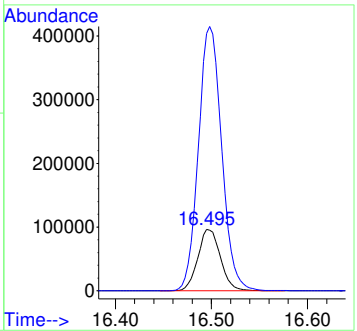


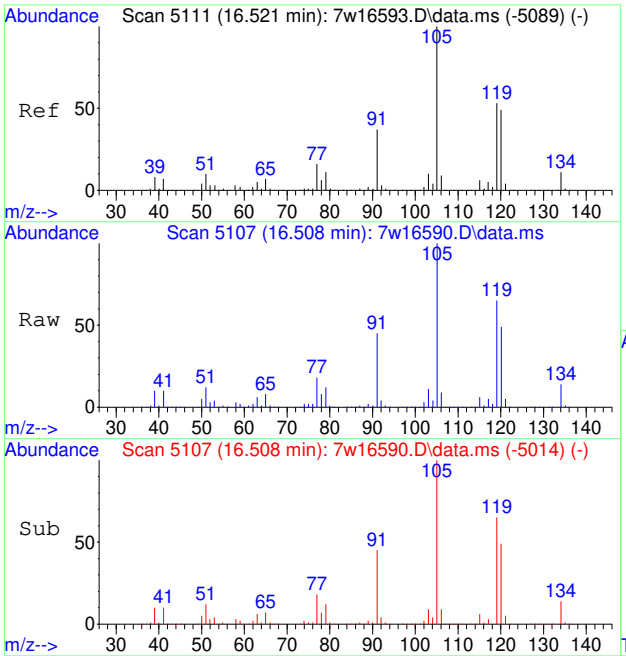


#95
TERT-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 16.495 min Scan# 5103
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 157456

Ion	Ratio	Lower	Upper
134	100		
119	444.7	307.9	571.7

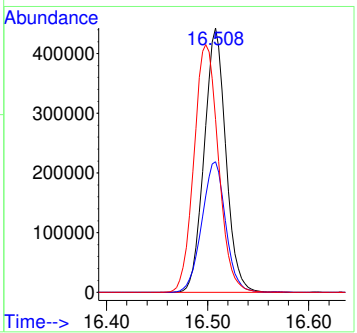


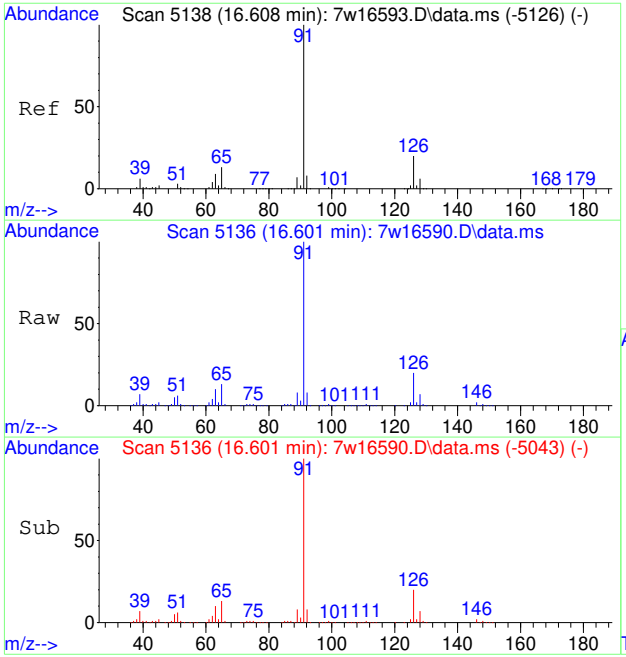


#96
1,2,4-TRIMETHYLBENZENE
Concen: 10.90 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 660136

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	106.1	78.0	144.8

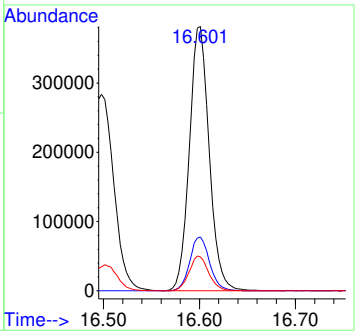


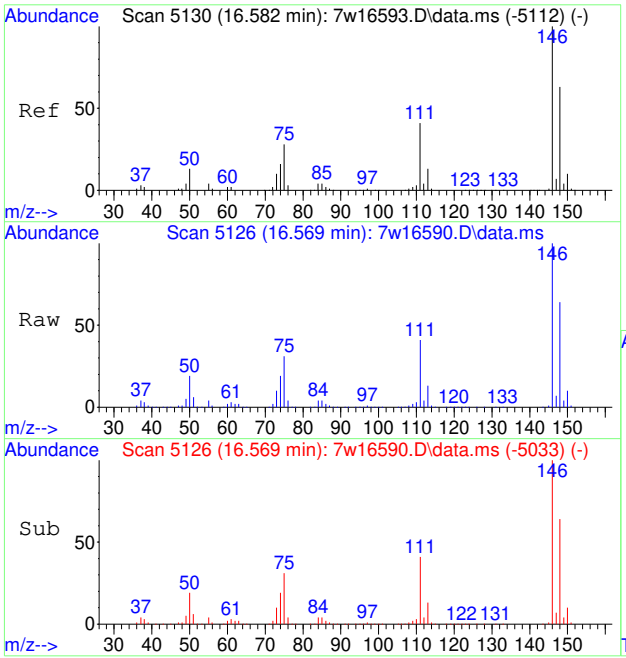


#97
BENZYL CHLORIDE
Concen: 10.50 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion: 91 Resp: 547978

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	13.1	7.3	13.7

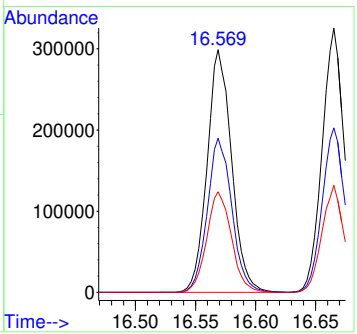


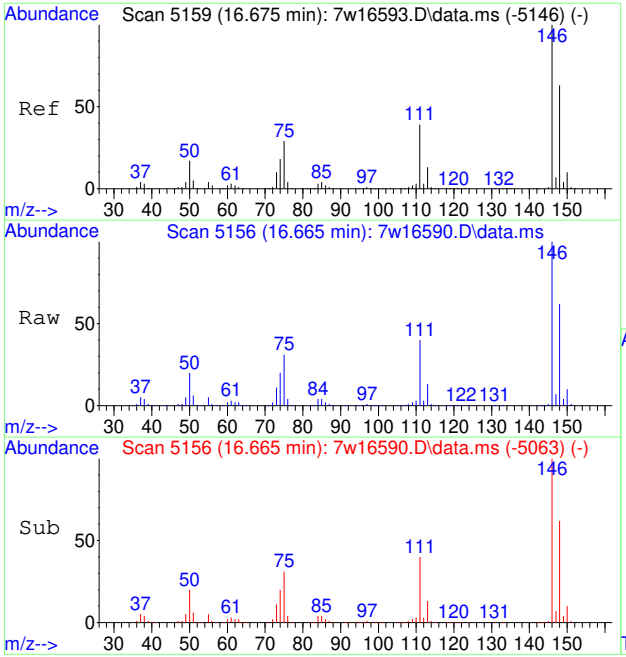


#98
M-DICHLOROBENZENE
Concen: 10.50 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 424825

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	41.8	25.4	47.2

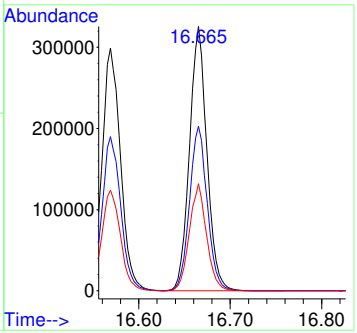


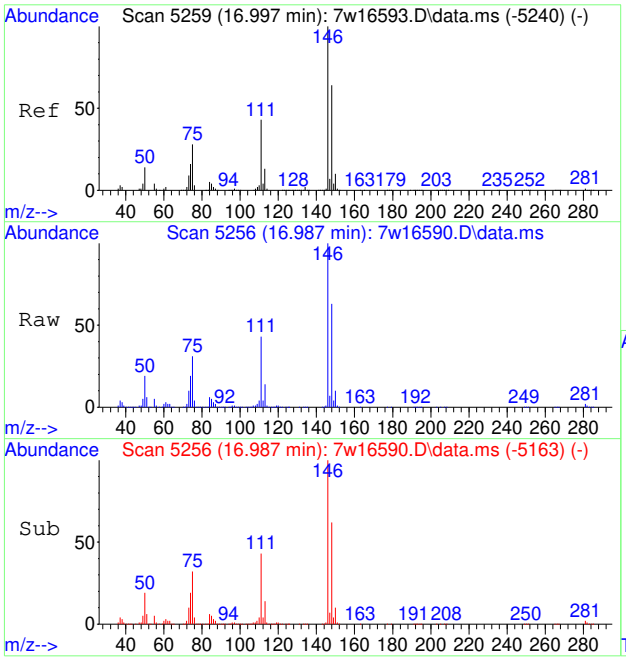


#99
P-DICHLOROBENZENE
Concen: 10.80 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 430477

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	40.0	24.8	46.1

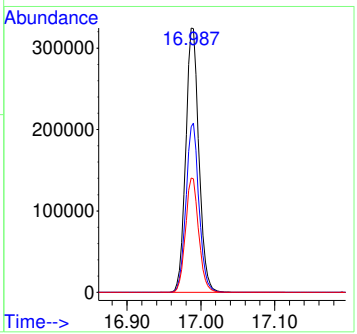


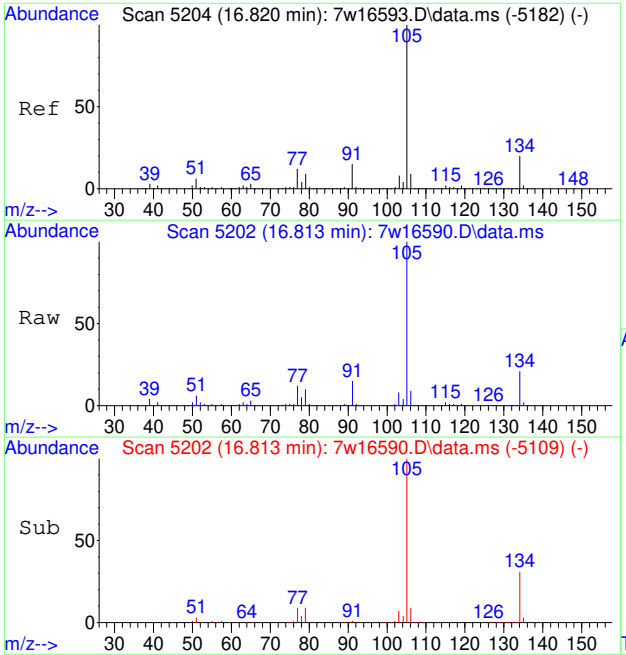


#100
O-DICHLOROBENZENE
Concen: 10.70 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:146 Resp: 400770

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.6	82.8
111	43.4	26.9	50.1

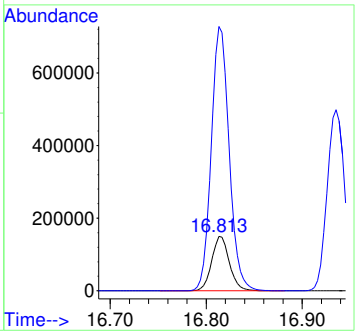


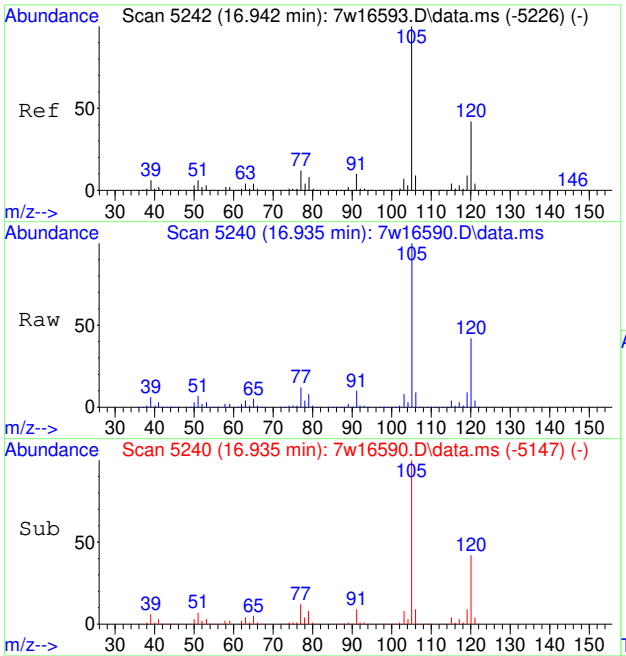


#101
SEC-BUTYLBENZENE
Concen: 11.00 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 191611

Ion	Ratio	Lower	Upper
134	100		
105	492.5	314.4	584.0

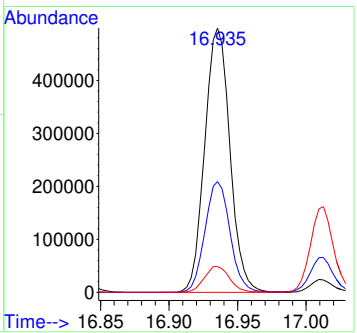


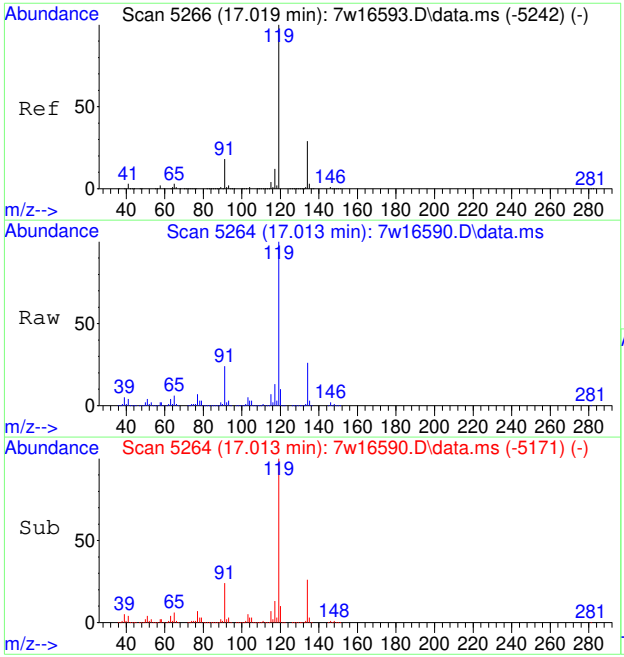


#102
1,2,3-TRIMETHYLBENZENE
Concen: 10.70 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:105 Resp: 636319

Ion	Ratio	Lower	Upper
105	100		
120	41.8	31.9	59.2
91	10.0	7.3	13.5

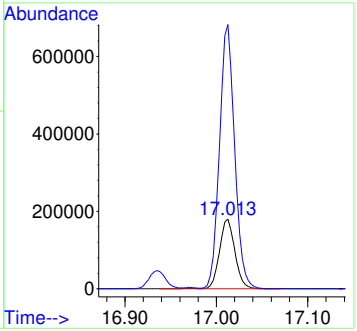


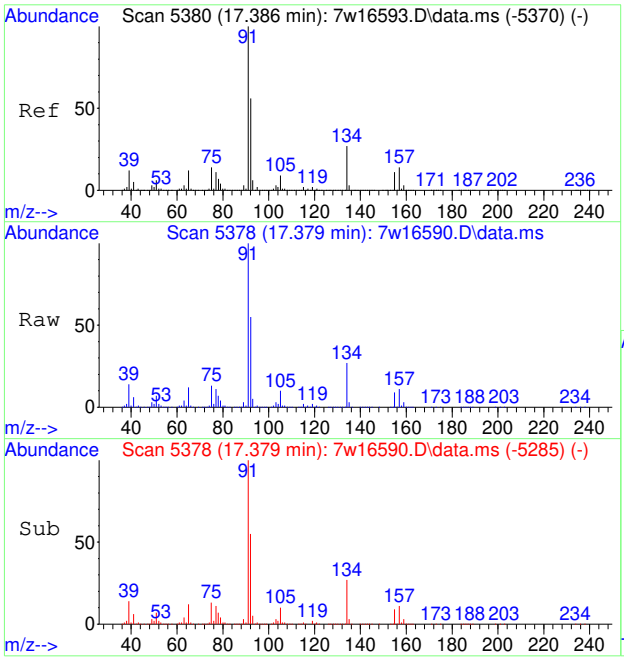


#103
P-ISOPROPYLTOLUENE
Concen: 10.80 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 211524

Ion	Ratio	Lower	Upper
134	100		
119	373.4	253.7	471.3

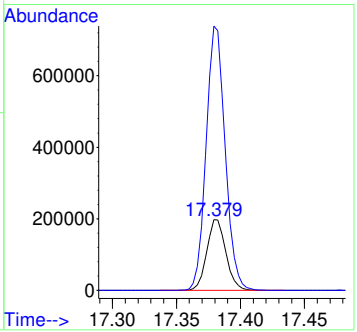


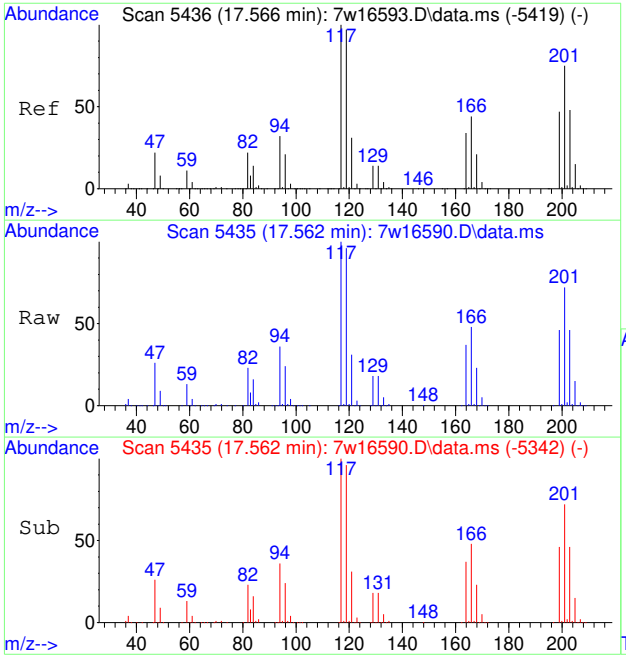


#104
N-BUTYLBENZENE
Concen: 10.90 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:134 Resp: 205284

Ion	Ratio	Lower	Upper
134	100		
91	372.9	231.1	429.1

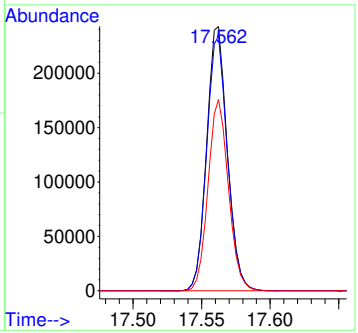


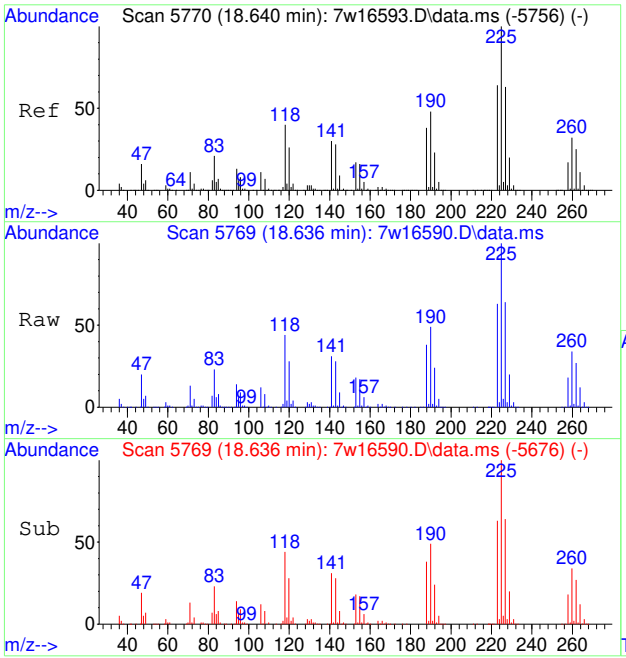


#105
HEXACHLOROETHANE
Concen: 10.90 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:117 Resp: 254836

Ion	Ratio	Lower	Upper
117	100		
119	96.7	68.3	126.9
201	71.2	45.9	85.3

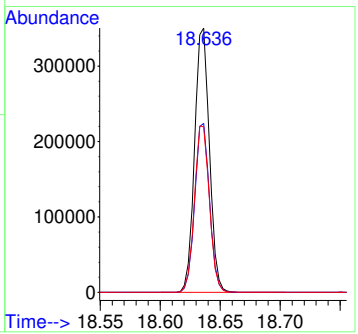


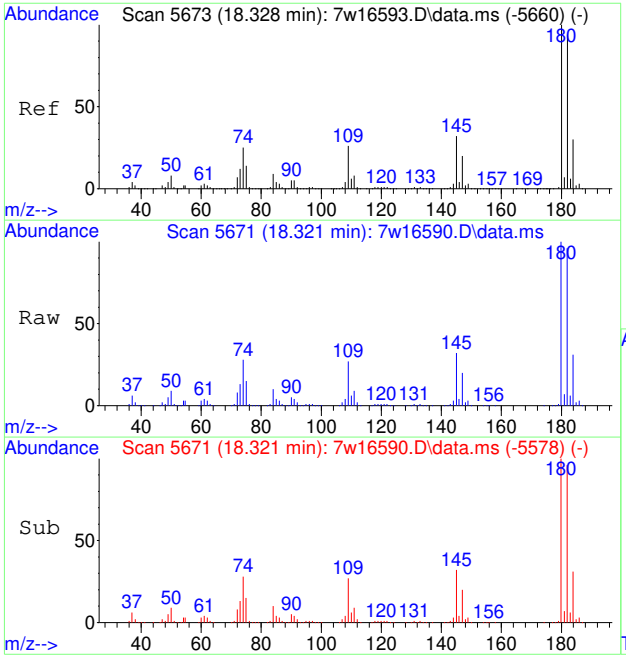


#106
HEXACHLOROBUTADIENE
Concen: 11.70 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:225 Resp: 300683

Ion	Ratio	Lower	Upper
225	100		
227	63.7	44.4	82.5
223	63.7	44.7	83.1

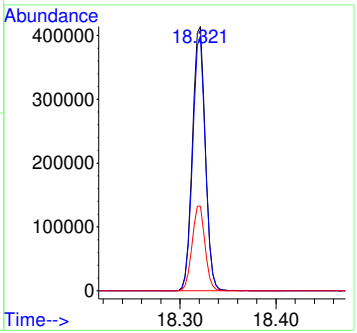


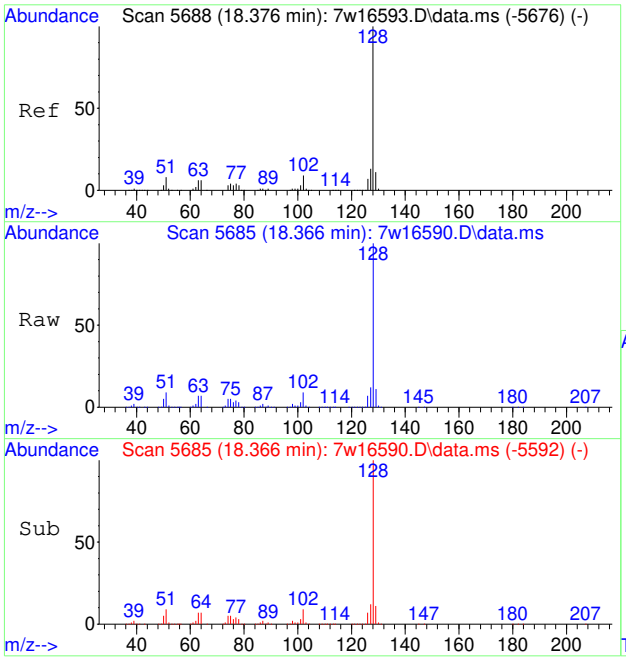


#107
1,2,4-TRICHLOROBENZENE
Concen: 11.70 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:180 Resp: 387303

Ion	Ratio	Lower	Upper
180	100		
182	95.1	66.8	124.0
145	32.2	23.1	42.9

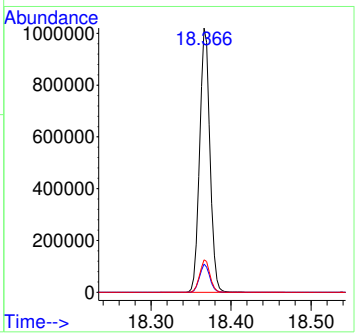


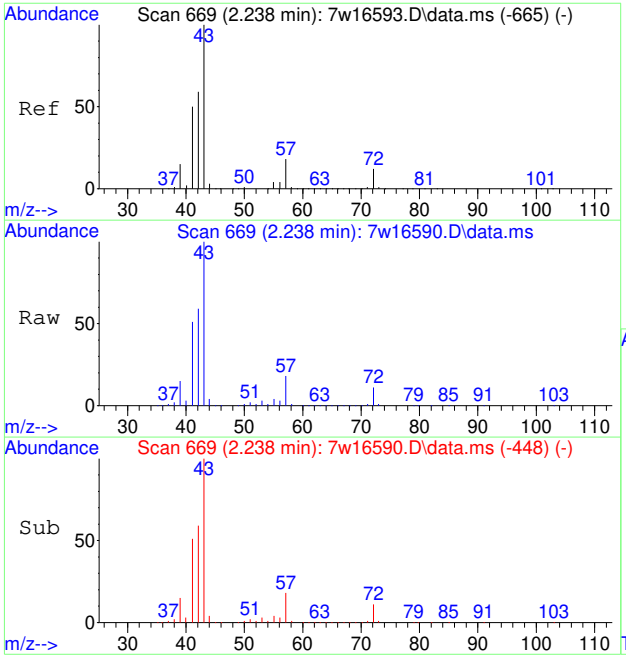


#108
NAPHTHALENE
Concen: 11.80 PPBV
RT: 18.366 min Scan# 5685
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:128 Resp: 909462

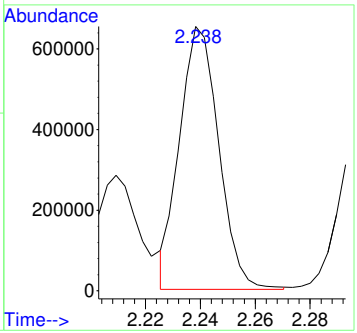
Ion	Ratio	Lower	Upper
128	100		
129	10.7	7.3	13.7
127	12.3	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 10.59 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16590.D
Acq: 7 Aug 2025 1:07 pm

Tgt Ion:TIC Resp: 646941



7.7.18

7

Manual Integration Approval Summary

Sample Number: V7W577-ICC577
Lab FileID: 7W16590.D
Injection Time: 08/07/25 13:07

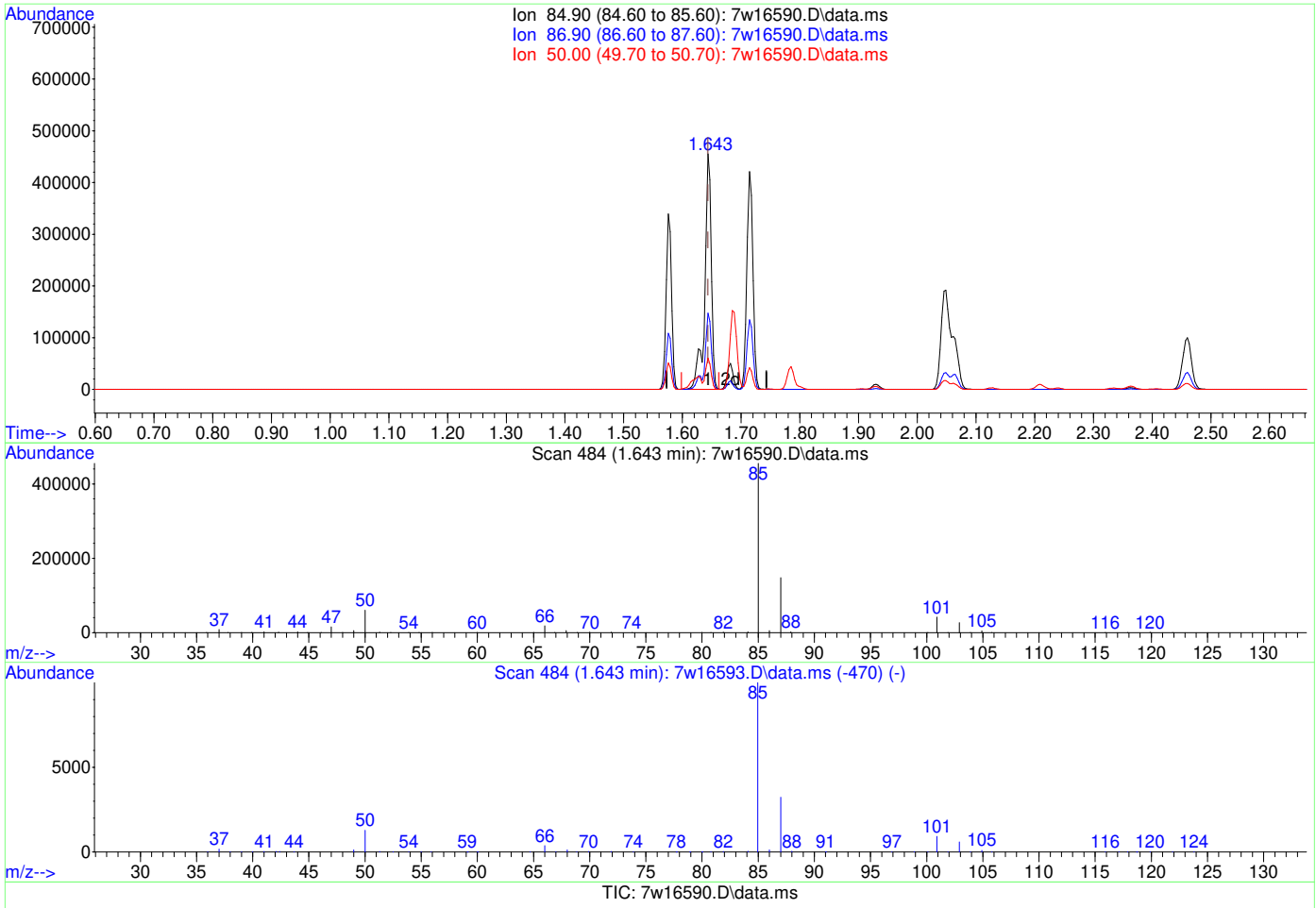
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 10.60PPBV

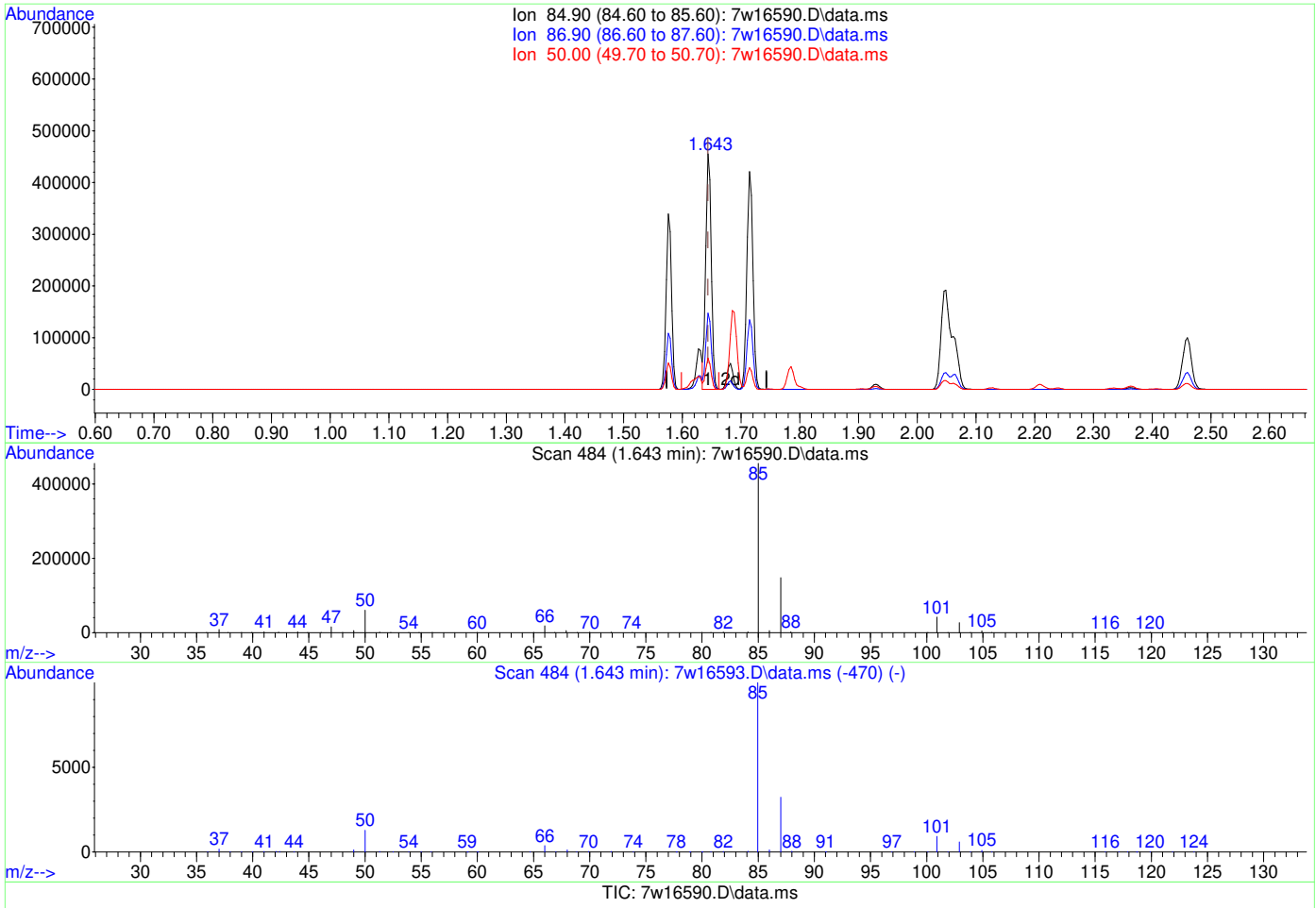
response 350784

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.84
50.00	17.30	19.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16590.D
Acq On : 7 Aug 2025 1:07 pm
Operator : benk
Sample : icc577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:15:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration



TIC: 7w16590.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (0.000) 8.88PPBV m

response 294067

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.18
50.00	17.30	23.06#
0.00	0.00	0.00

7W16591.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109480	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	545187	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	503767	10.00	PPBV	#	0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109480	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	408790	9.97	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	249521	17.67	PPBV		90
3) FREON 152A	1.608	65	134083	19.87	PPBV		94
4) CHLORODIFLUOROMETHANE	1.621	67	61032	19.91	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	298756	19.87	PPBV		70
6) DICHLORODIFLUOROMETHANE	1.647	85	530689m	16.21	PPBV		
7) PROPYLENE	1.627	41	171796	19.80	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	483910	19.78	PPBV		99
9) FREON 114	1.717	85	552603	19.29	PPBV		83
10) CHLOROMETHANE	1.688	52	73238	19.85	PPBV		96
11) VINYL CHLORIDE	1.750	62	258206	18.84	PPBV		99
12) 1,3-BUTADIENE	1.785	54	200205	18.85	PPBV	#	74
13) N-BUTANE	1.801	43	354476	19.48	PPBV		97
14) BROMOMETHANE	1.859	94	197085	18.92	PPBV		97
15) CHLOROETHANE	1.907	64	136427	18.81	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	473770	18.30	PPBV		96
17) ACETONITRILE	1.997	41	201387	17.69	PPBV		96
18) ACROLEIN	2.036	56	114846	19.37	PPBV		97
19) FREON 123	2.049	83	521378	19.72	PPBV		96
20) FREON 123A	2.065	117	305527m	19.66	PPBV		
21) TRICHLOROFLUOROMETHANE	2.129	101	556426	18.45	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	474515	18.98	PPBV		89
23) ACETONE	2.071	58	129681	18.71	PPBV		64
24) PENTANE	2.242	42	249050	19.26	PPBV		87
25) IODOMETHANE	2.303	142	541893	19.59	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.328	96	219577	19.61	PPBV	#	60
27) CARBON DISULFIDE	2.463	76	631688	19.43	PPBV		92
28) ETHANOL	1.933	45	114301	17.84	PPBV		97
29) BROMOETHENE	2.007	106	202351	18.58	PPBV		95
30) ACRYLONITRILE	2.213	52	187985	19.57	PPBV		98
31) METHYLENE CHLORIDE	2.367	84	196005	18.45	PPBV	#	78
32) 3-CHLOROPROPENE	2.409	76	114925	18.95	PPBV		73
33) FREON 113	2.460	151	337394	19.33	PPBV		84
34) TRANS-1,2-DICHLOROETHENE	2.688	96	231431	18.75	PPBV	#	65
35) TERTIARY BUTYL ALCOHOL	2.338	59	526848	17.25	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.791	73	677061	19.29	PPBV		97
37) TETRAHYDROFURAN	3.467	72	104573	17.84	PPBV		81
38) HEXANE	3.241	57	453219	19.51	PPBV		80
39) VINYL ACETATE	2.827	86	66441	19.48	PPBV		74
40) 1,1-DICHLOROETHANE	2.759	63	455143	18.70	PPBV		97
41) METHYL ETHYL KETONE	2.920	72	120276	19.21	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.116	96	246893	19.20	PPBV	#	75
43) DIISOPROPYL ETHER	3.245	59	130636	19.57	PPBV		91
44) ETHYL ACETATE	3.248	61	93045	19.72	PPBV		55
45) METHYL ACRYLATE	3.235	55	561273	19.52	PPBV	#	98
46) CHLOROFORM	3.264	83	484502	19.05	PPBV		97
47) 2,4-DIMETHYLPENTANE	3.746	57	525364	19.82	PPBV		93
48) 1,1,1-TRICHLOROETHANE	3.823	97	508992	19.19	PPBV		95
49) CARBON TETRACHLORIDE	4.238	117	536446	18.95	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	375248	18.79	PPBV		97
51)	BENZENE	4.129	78	718150	19.31	PPBV		91
53)	CYCLOHEXANE	4.331	84	325475	19.45	PPBV	#	70
54)	2,3-DIMETHYLPENTANE	4.585	71	167011	19.60	PPBV		67
55)	TRICHLOROETHENE	5.013	95	327435	18.36	PPBV		86
56)	1,2-DICHLOROPROPANE	4.785	63	302257	19.23	PPBV		92
57)	DIBROMOMETHANE	4.746	174	277930	19.08	PPBV		92
58)	ETHYL ACRYLATE	4.901	55	703238	19.73	PPBV	#	95
59)	BROMODICHLOROMETHANE	4.962	83	549357	18.61	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	1404688	18.90	PPBV	#	96
61)	1,4-DIOXANE	5.023	88	159487	18.11	PPBV	#	80
62)	HEPTANE	5.418	43	476905	19.19	PPBV		91
63)	METHYL METHACRYLATE	5.319	69	276982	19.41	PPBV		90
64)	METHYL ISOBUTYL KETONE	6.039	58	278396	19.00	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	474515	19.04	PPBV		96
66)	TOLUENE	7.132	91	898243	19.86	PPBV		98
67)	1,3-DICHLOROPROPANE	7.193	76	463972	19.84	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	425650	18.27	PPBV		95
69)	1,1,2-TRICHLOROETHANE	6.769	83	262141	19.57	PPBV		96
70)	2-HEXANONE	7.695	58	374273	19.43	PPBV	#	78
71)	ETHYL METHACRYLATE	7.833	69	477947	19.46	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	335304	20.14	PPBV		98
73)	DIBROMOCHLOROMETHANE	7.663	129	551638	19.81	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	487978	20.42	PPBV		99
75)	OCTANE	8.997	43	676810	19.89	PPBV		91
77)	1,1,1,2-TETRACHLOROETHANE	10.058	131	402558	20.28	PPBV		93
78)	CHLOROBENZENE	10.045	112	735731	20.26	PPBV		90
79)	ETHYLBENZENE	10.926	91	1222868	20.44	PPBV		98
80)	M,P-XYLENE	11.354	91	1892381	39.40	PPBV		98
81)	O-XYLENE	12.286	91	959093	20.37	PPBV		96
82)	STYRENE	12.071	104	744213	20.29	PPBV		94
83)	NONANE	13.405	43	723418	20.03	PPBV		83
84)	BROMOFORM	11.161	173	487585	20.35	PPBV		96
85)	1,1,2,2-TETRACHLOROETHANE	12.296	83	696701	20.31	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	12.579	75	544148	20.17	PPBV		100
88)	ISOPROPYLBENZENE	13.794	120	360209	19.98	PPBV		88
89)	BROMOBENZENE	13.659	77	684288	20.06	PPBV		76
90)	2-CHLOROTOLUENE	14.788	126	331208	19.42	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	382520	19.58	PPBV		97
92)	4-ETHYLTOLUENE	15.575	105	1412222	19.94	PPBV		97
93)	1,3,5-TRIMETHYLBENZENE	15.849	105	1177558	19.94	PPBV		94
94)	ALPHA-METHYLSTYRENE	16.177	118	587843	19.51	PPBV		97
95)	TERT-BUTYLBENZENE	16.501	134	284215	19.96	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	1206100	20.20	PPBV		94
97)	BENZYL CHLORIDE	16.601	91	1043995	20.31	PPBV		92
98)	M-DICHLOROBENZENE	16.572	146	777553	19.50	PPBV		97
99)	P-DICHLOROBENZENE	16.665	146	788870	20.08	PPBV		97
100)	O-DICHLOROBENZENE	16.990	146	731265	19.81	PPBV		97
101)	SEC-BUTYLBENZENE	16.817	134	351357	20.47	PPBV		84
102)	1,2,3-TRIMETHYLBENZENE	16.935	105	1159850	19.79	PPBV		96
103)	P-ISOPROPYLTOLUENE	17.013	134	385467	19.97	PPBV		94
104)	N-BUTYLBENZENE	17.382	134	378596	20.40	PPBV		79
105)	HEXACHLOROETHANE	17.562	117	477608	20.73	PPBV		96
106)	HEXACHLOROBUTADIENE	18.636	225	568005	22.43	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.321	180	737709	22.61	PPBV		100
108)	NAPHTHALENE	18.369	128	1742340	22.94	PPBV		99
110)	TVHC as equiv Pentane	2.242	TIC	1188767	19.68	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

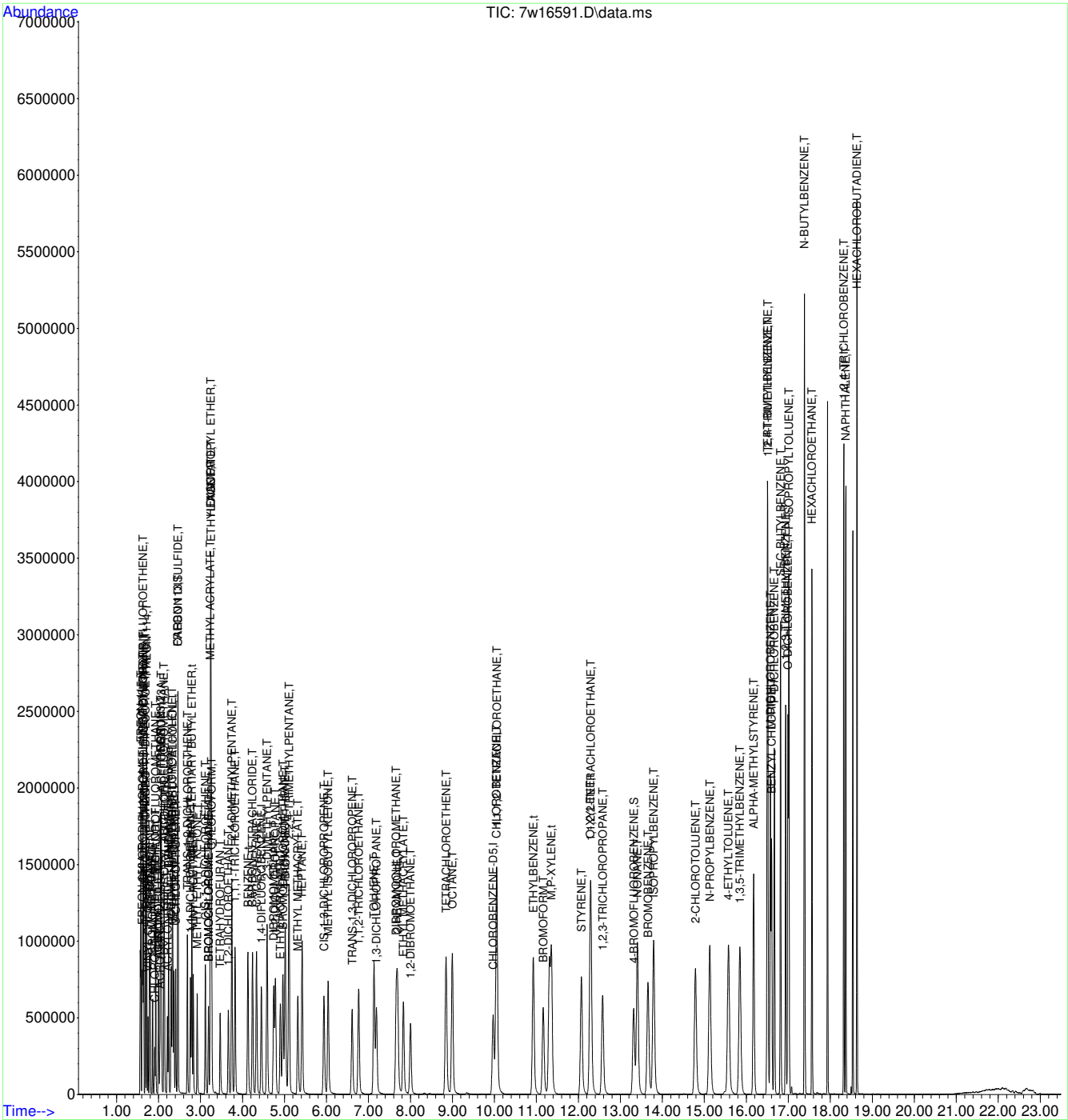
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

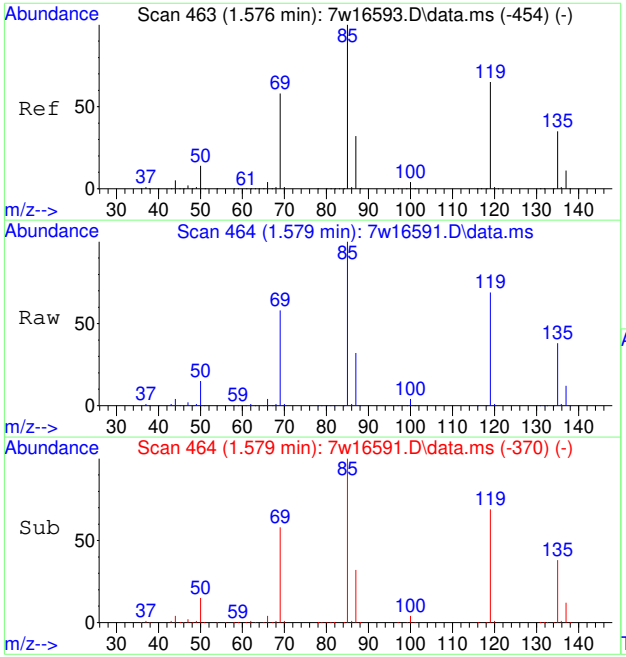
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration

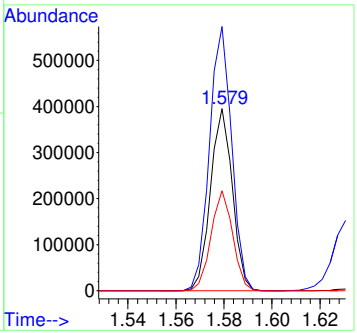


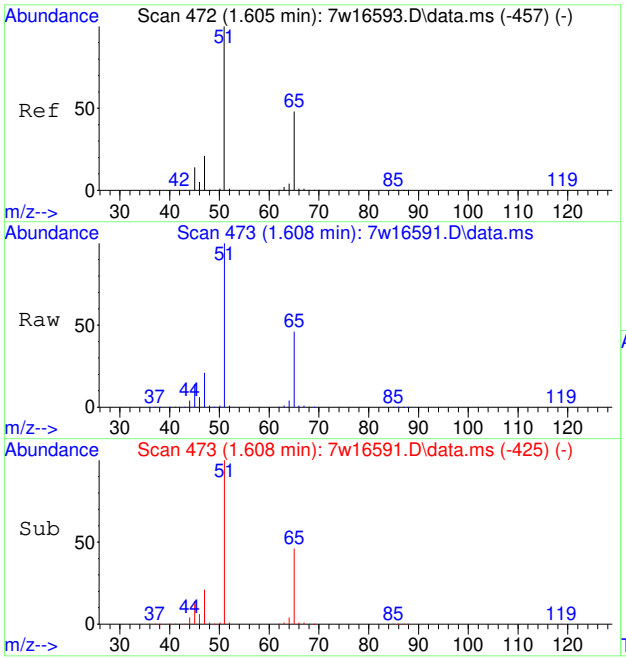


#2
FREON 115
Concen: 17.67 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:119 Resp: 249521

Ion	Ratio	Lower	Upper
119	100		
85	146.7	90.9	168.7
135	54.3	38.2	71.0

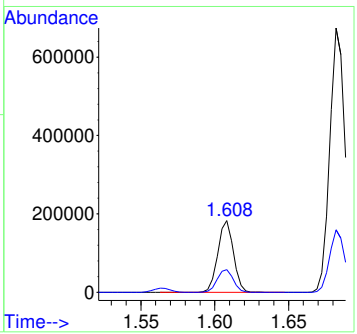


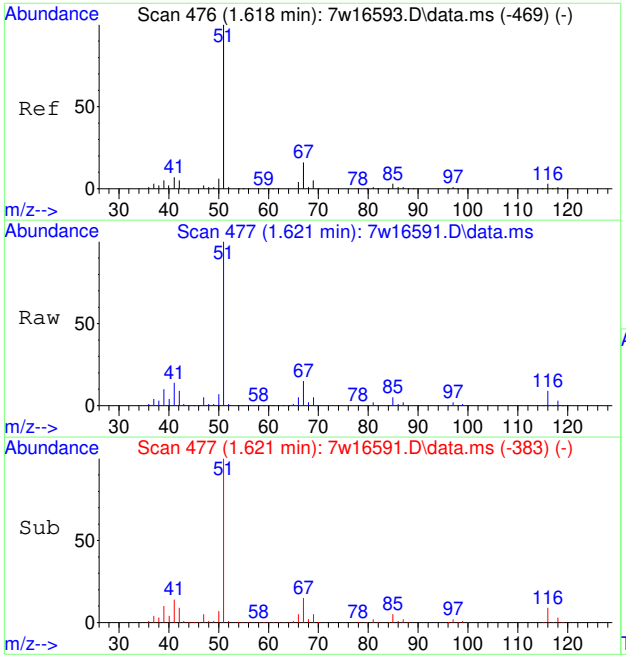


#3
FREON 152A
Concen: 19.87 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 134083

Ion	Ratio	Lower	Upper
65	100		
45	32.5	20.6	38.4

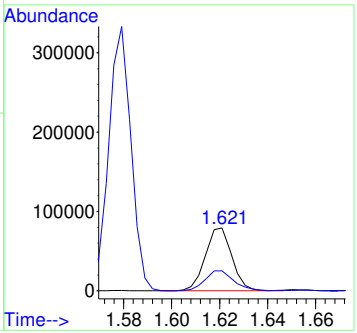


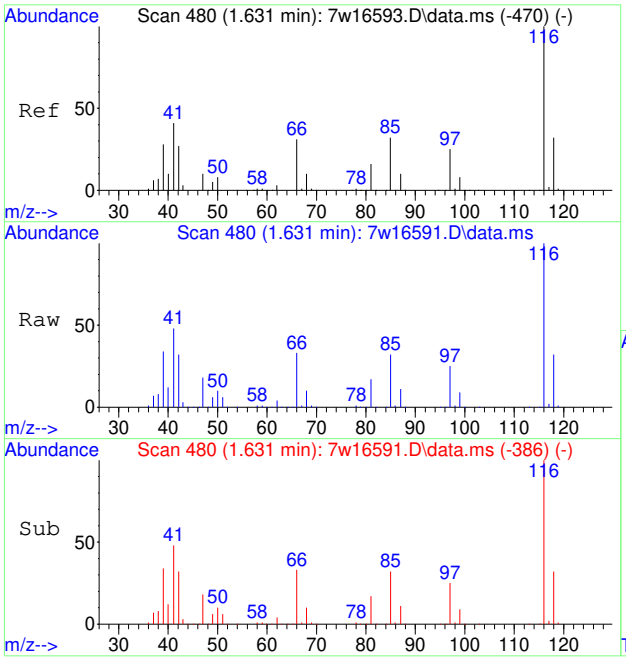


#4
CHLORODIFLUOROMETHANE
Concen: 19.91 PPBV
RT: 1.621 min Scan# 477
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 61032

Ion	Ratio	Lower	Upper
67	100		
69	34.4	25.4	47.2

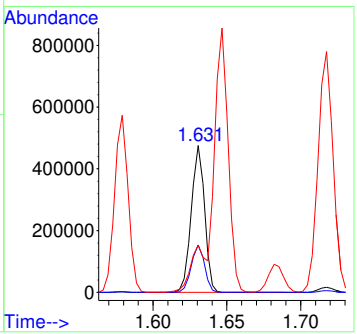


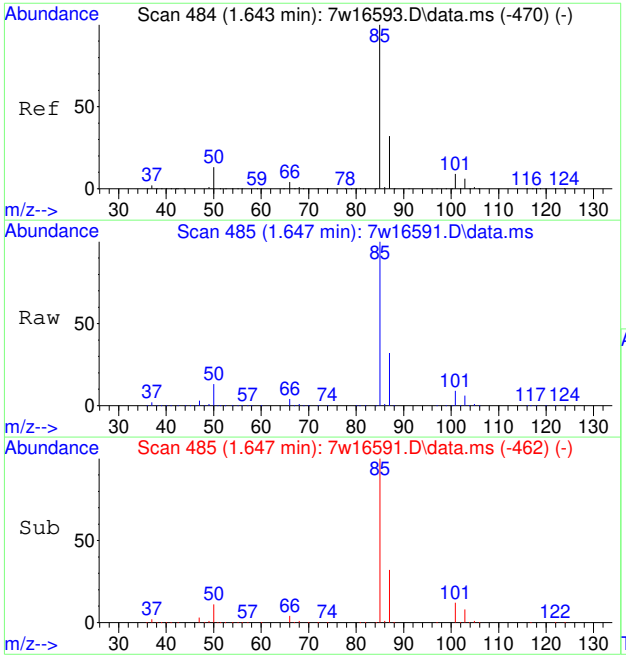


#5
CHLOROTRIFLUOROETHENE
Concen: 19.87 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:116 Resp: 298756

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.7	42.1
85	216.0	194.7	361.7

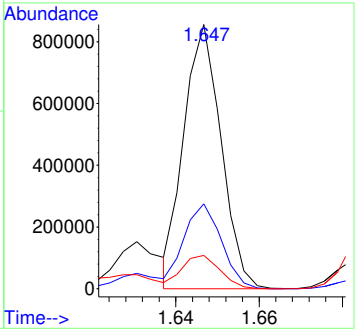


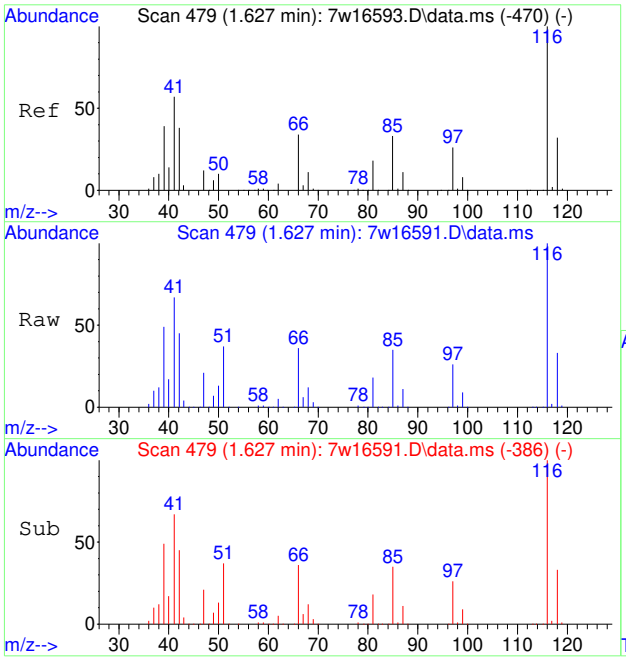


#6
DICHLORODIFLUOROMETHANE
Concen: 16.21 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 530689

Ion	Ratio	Lower	Upper
85	100		
87	39.5	23.1	42.9
50	23.2	12.1	22.5#

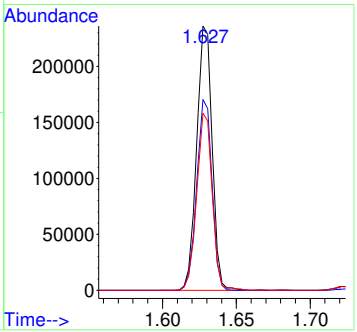


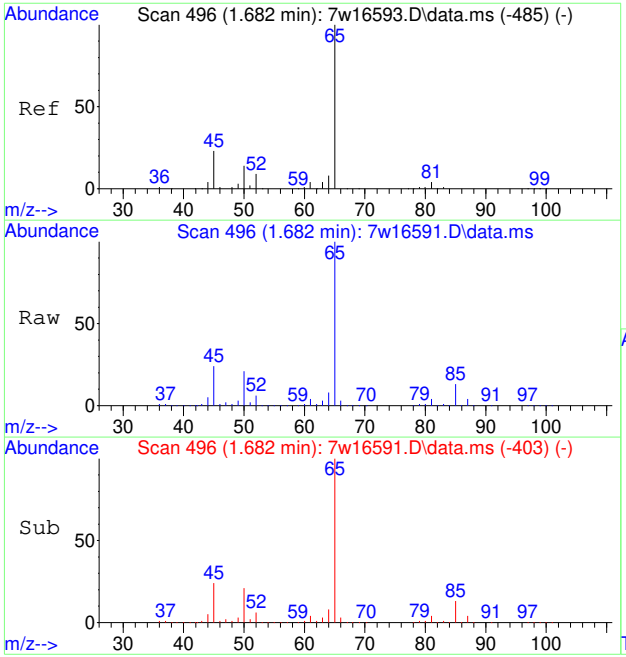


#7
PROPYLENE
Concen: 19.80 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 171796

Ion	Ratio	Lower	Upper
41	100		
39	71.5	51.0	94.8
42	66.7	46.6	86.6

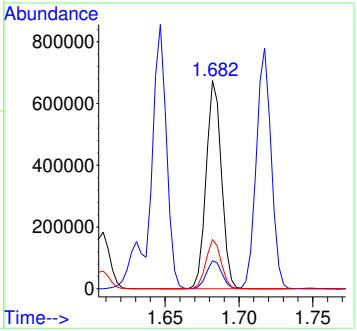


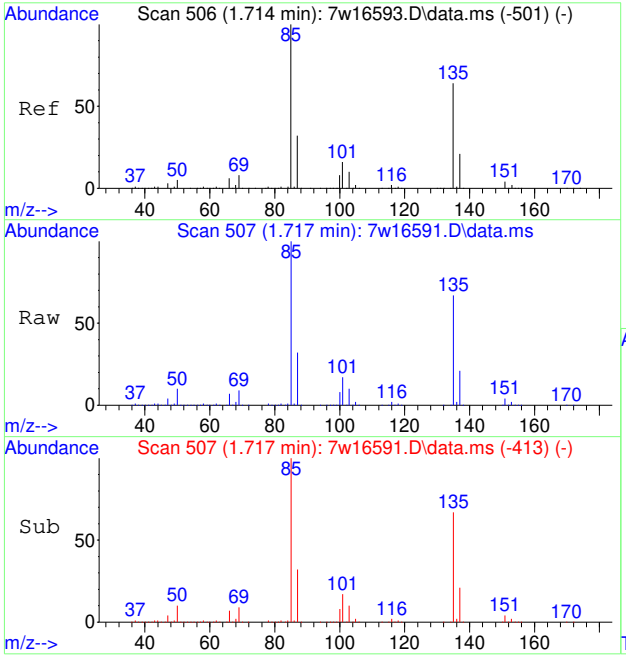


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 19.78 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 65 Resp: 483910

Ion	Ratio	Lower	Upper
65	100		
85	13.6	9.7	17.9
45	23.5	17.0	31.6

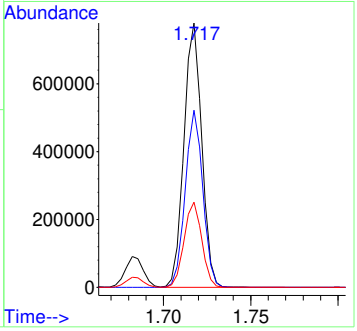


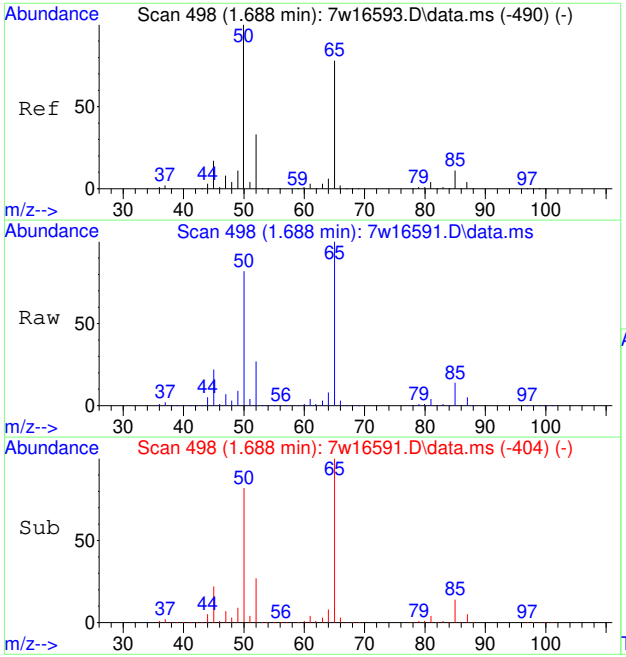


#9
FREON 114
Concen: 19.29 PPBV
RT: 1.717 min Scan# 507
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 85 Resp: 552603

Ion	Ratio	Lower	Upper
85	100		
135	66.3	61.3	113.9
87	32.2	23.2	43.0

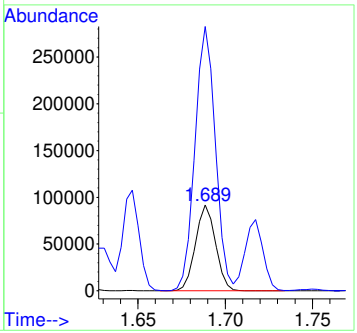


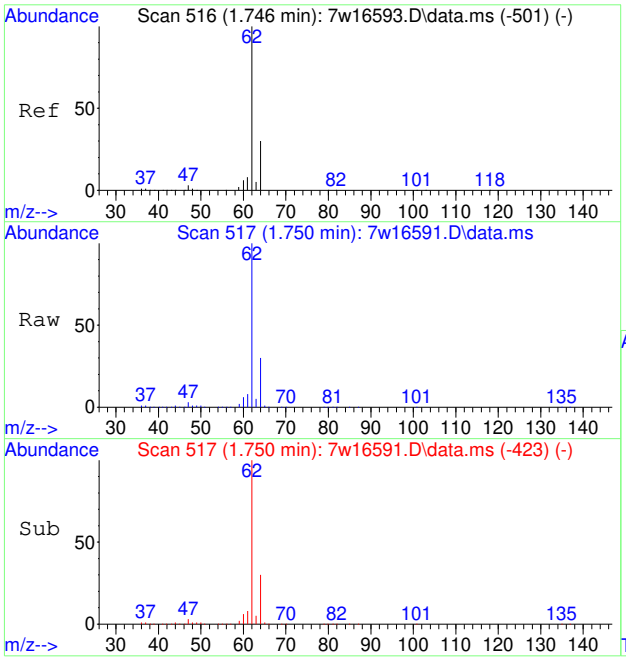


#10
CHLOROMETHANE
Concen: 19.85 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 73238

Ion	Ratio	Lower	Upper
52	100		
50	317.8	227.6	422.6

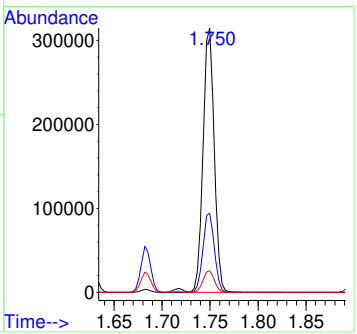


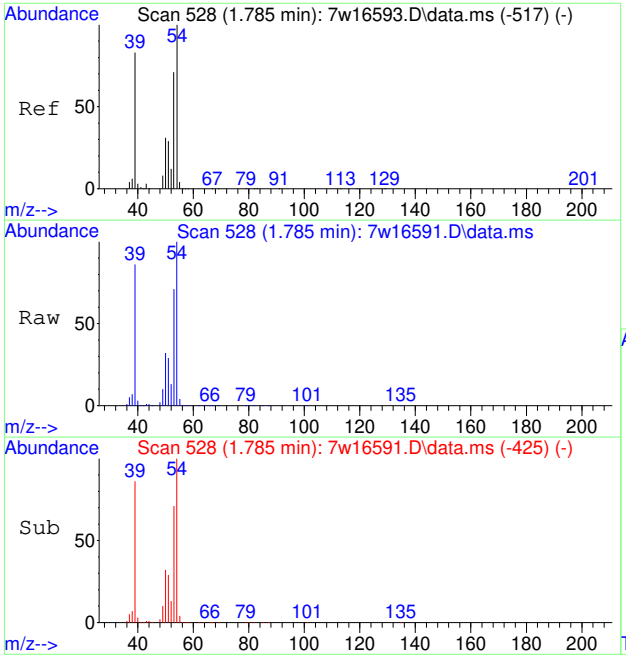


#11
VINYL CHLORIDE
Concen: 18.84 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 258206

Ion	Ratio	Lower	Upper
62	100		
64	30.4	21.6	40.2
61	8.5	5.7	10.7

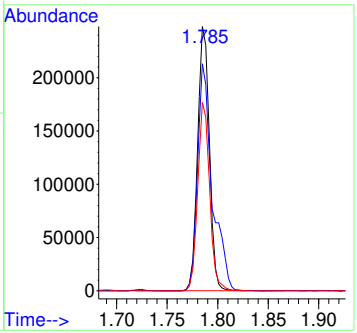


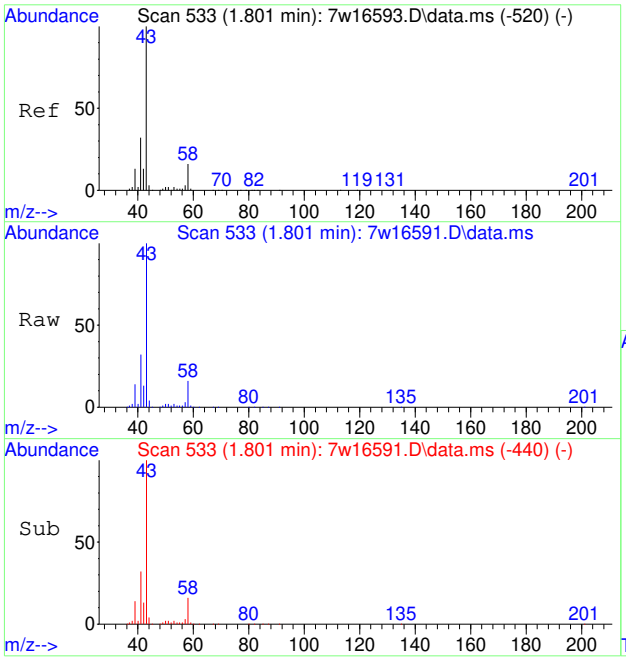


#12
1,3-BUTADIENE
Concen: 18.85 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 54 Resp: 200205

Ion	Ratio	Lower	Upper
54	100		
39	106.9	125.6	185.6#
53	72.3	40.7	100.7

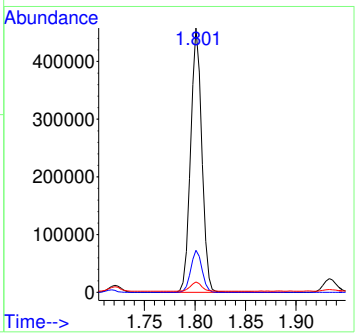


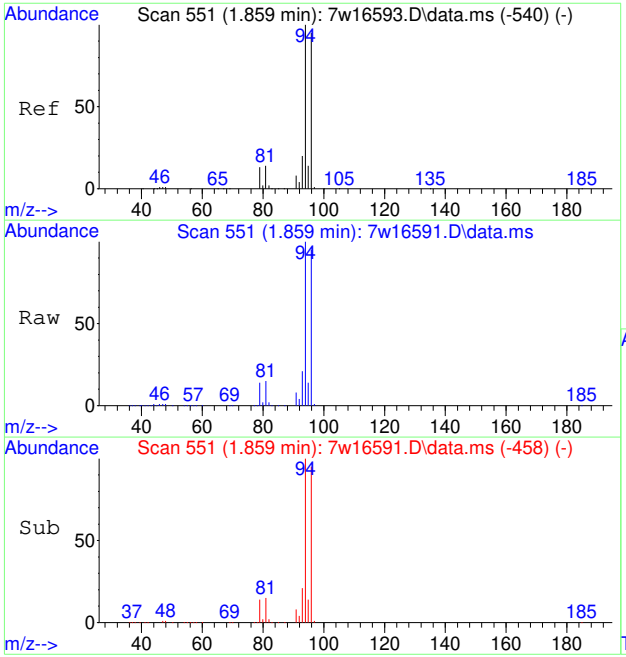


#13
N-BUTANE
Concen: 19.48 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 354476

Ion	Ratio	Lower	Upper
43	100		
58	16.0	10.4	19.4
44	3.6	3.0	5.6

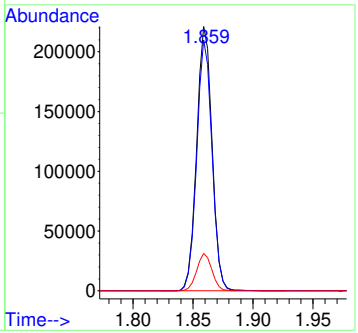


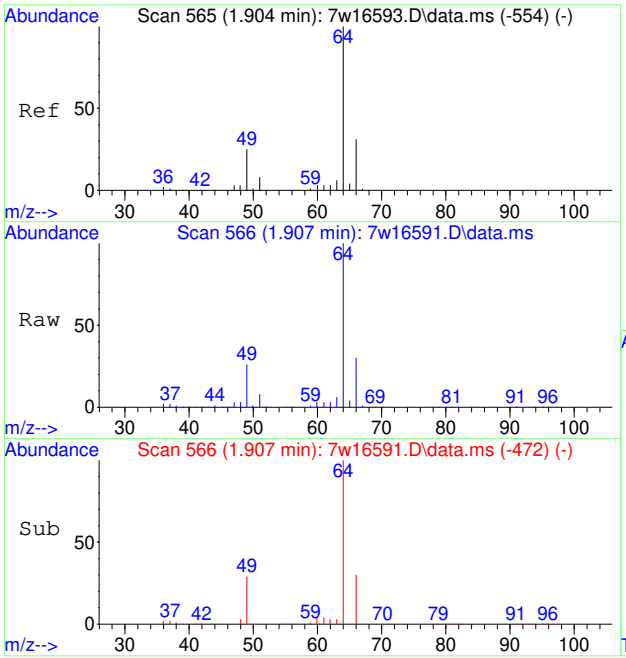


#14
BROMOMETHANE
Concen: 18.92 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 94 Resp: 197085

Ion	Ratio	Lower	Upper
94	100		
96	94.2	63.6	118.0
95	13.9	10.0	18.6

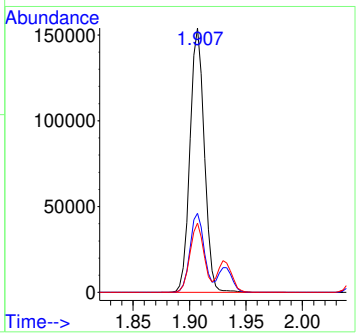


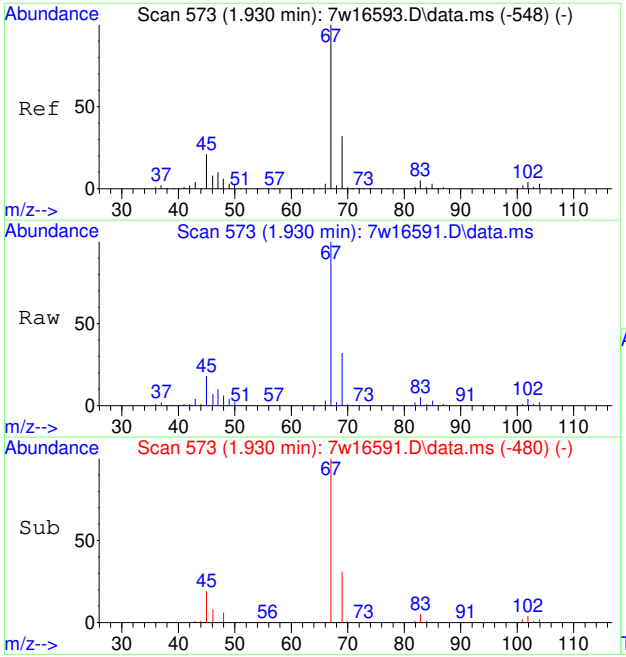


#15
CHLOROETHANE
Concen: 18.81 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 64 Resp: 136427

Ion	Ratio	Lower	Upper
64	100		
66	39.2	23.0	42.6
49	26.0	21.5	39.9

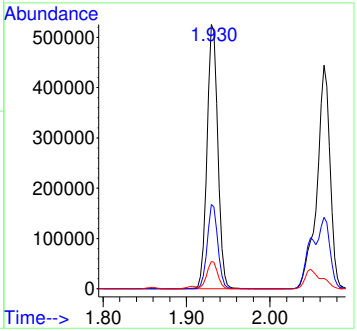


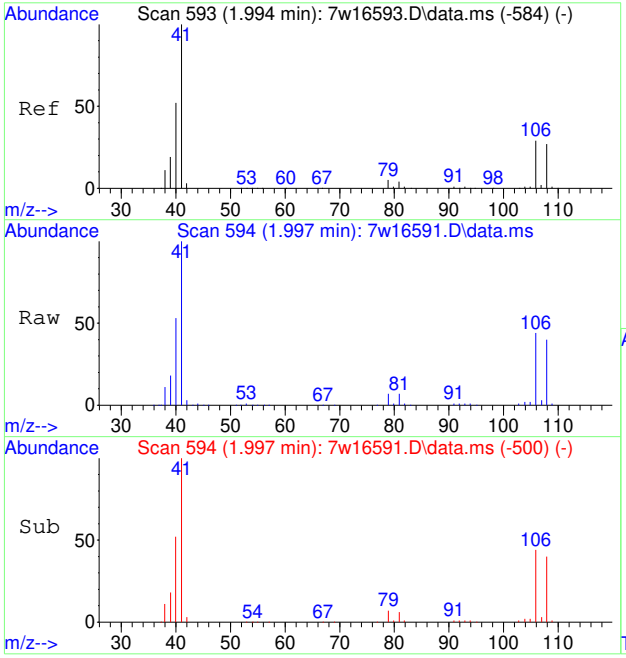


#16
DICHLOROFLUOROMETHANE
Concen: 18.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 67 Resp: 473770

Ion	Ratio	Lower	Upper
67	100		
69	31.3	23.2	43.0
47	11.3	9.6	17.8

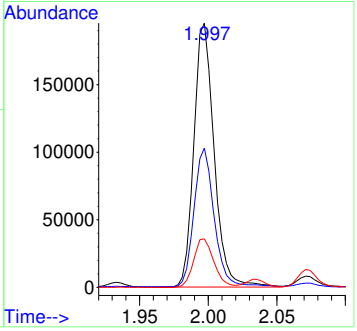


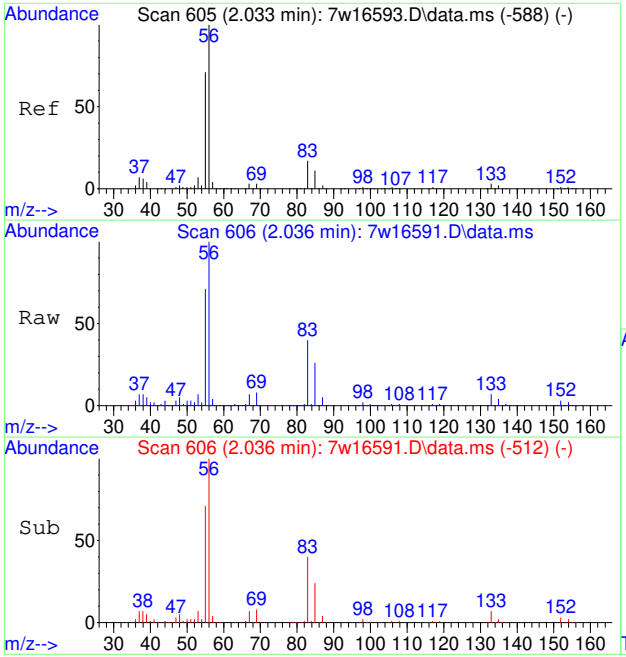


#17
ACETONITRILE
Concen: 17.69 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 41 Resp: 201387

Ion	Ratio	Lower	Upper
41	100		
40	52.5	38.4	71.4
39	18.4	14.5	26.9

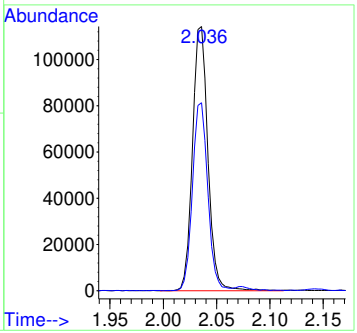


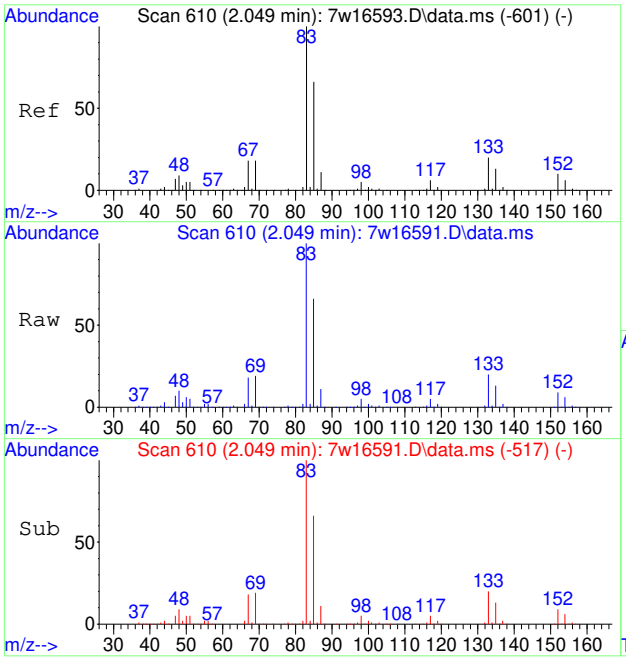


#18
ACROLEIN
Concen: 19.37 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 56 Resp: 114846

Ion	Ratio	Lower	Upper
56	100		
55	70.4	51.2	95.2

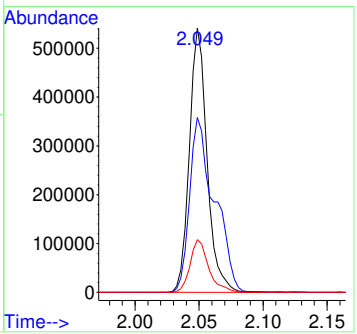


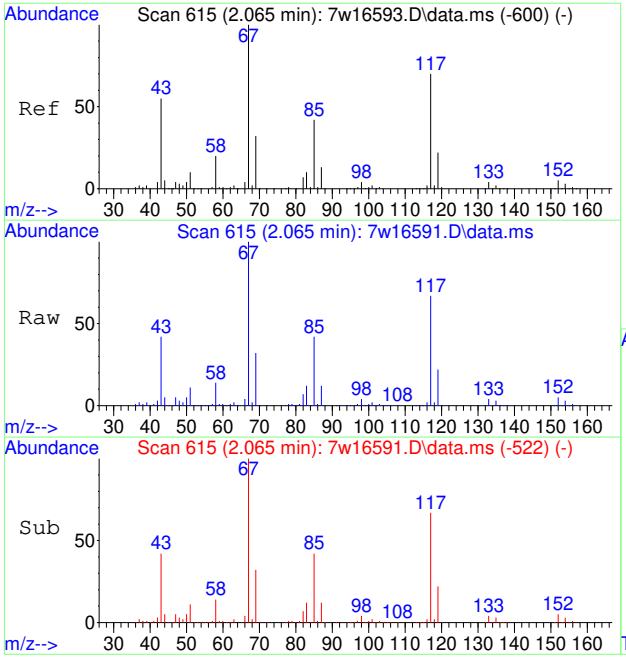


#19
FREON 123
Concen: 19.72 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 521378

Ion	Ratio	Lower	Upper
83	100		
85	92.8	65.7	121.9
133	21.0	19.9	36.9

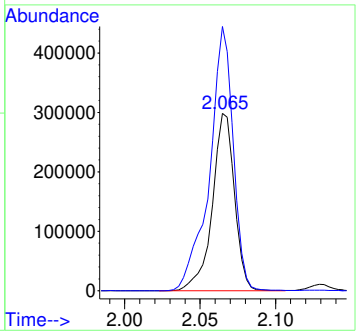


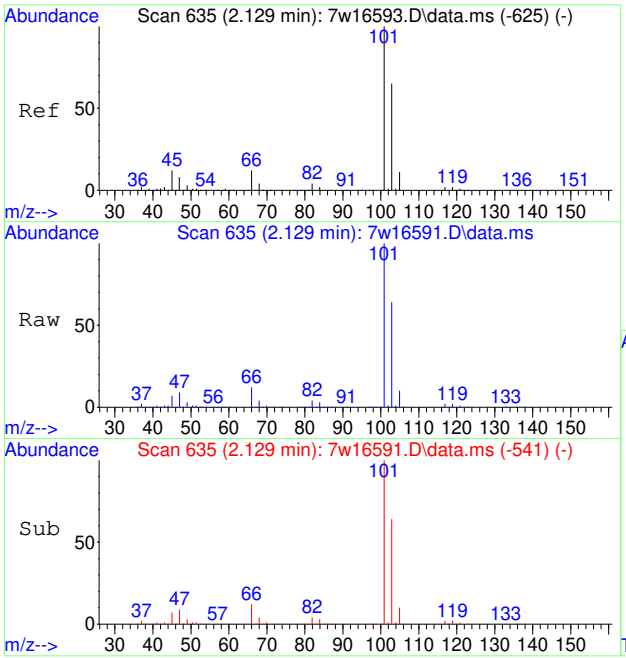


#20
FREON 123A
Concen: 19.66 PPBV m
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 305527

Ion	Ratio	Lower	Upper
117	100		
67	0.0	78.8	146.4#

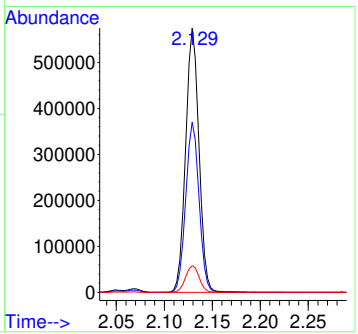


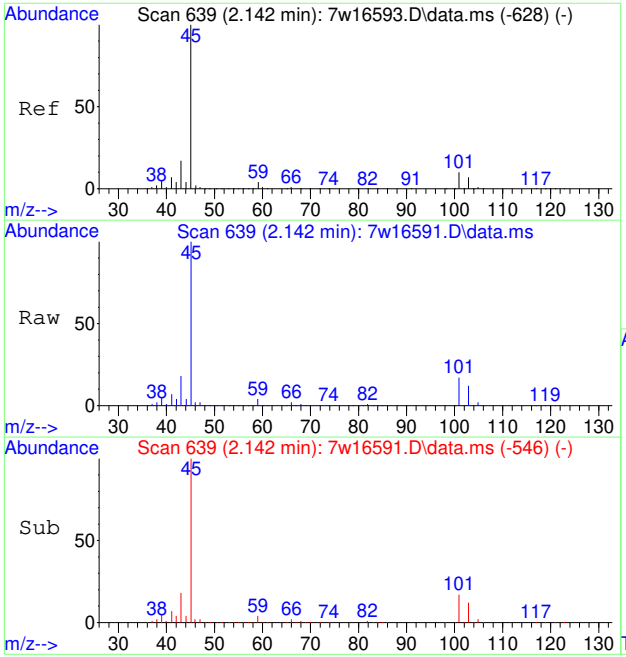


#21
TRICHLOROFLUOROMETHANE
Concen: 18.45 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:101 Resp: 556426

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.3	82.3
105	10.4	7.3	13.7

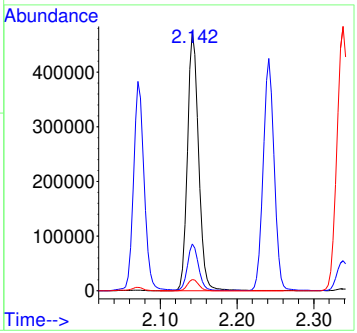


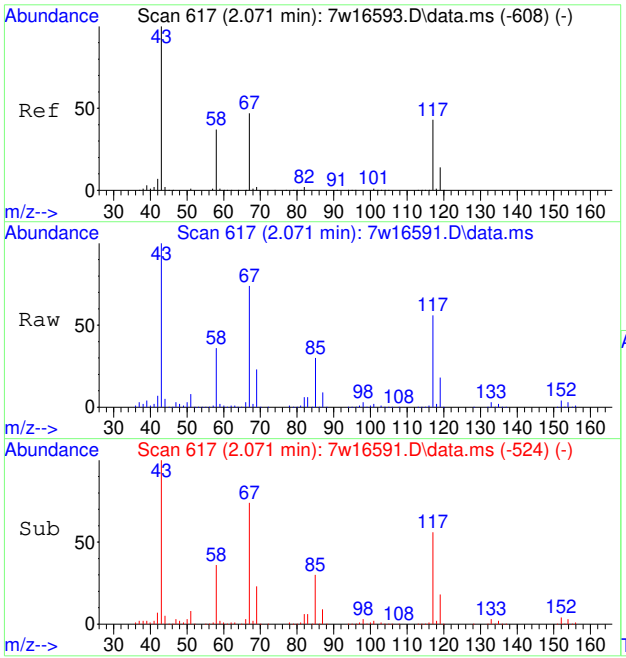


#22
ISOPROPYL ALCOHOL
Concen: 18.98 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 474515

Ion	Ratio	Lower	Upper
45	100		
43	18.1	17.1	31.9
59	4.5	3.1	5.8

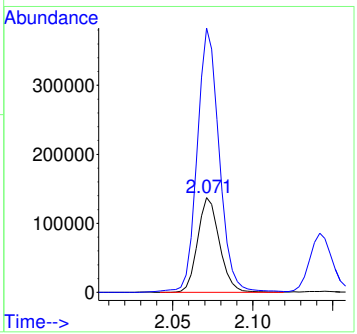


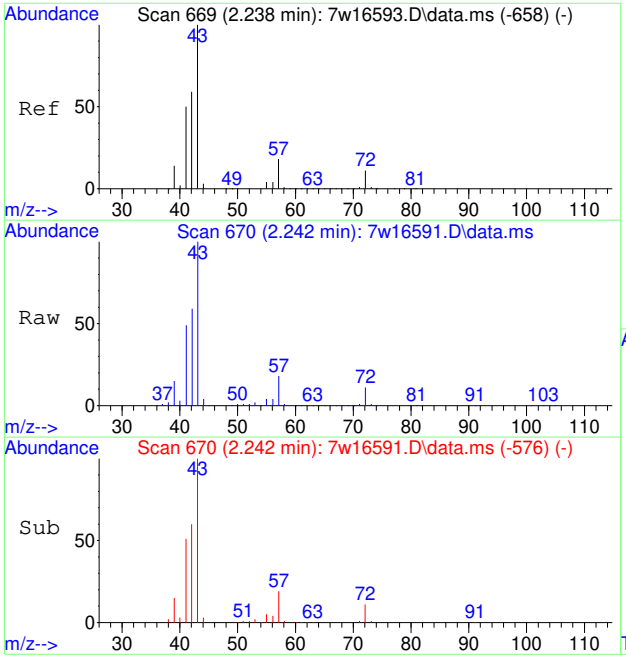


#23
ACETONE
Concen: 18.71 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 129681

Ion	Ratio	Lower	Upper
58	100		
43	282.9	254.0	471.6

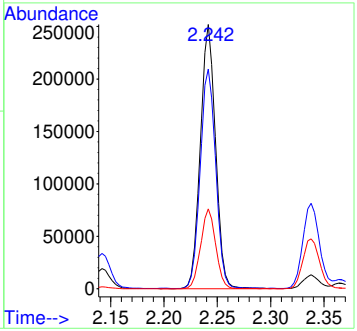


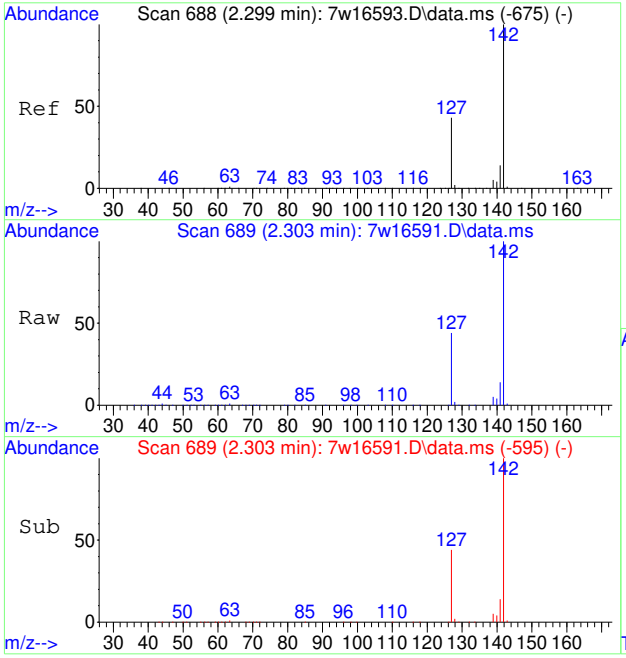


#24
PENTANE
Concen: 19.26 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 42 Resp: 249050

Ion	Ratio	Lower	Upper
42	100		
41	84.6	69.2	128.6
57	30.3	18.6	34.6

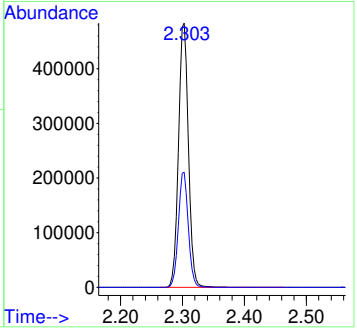


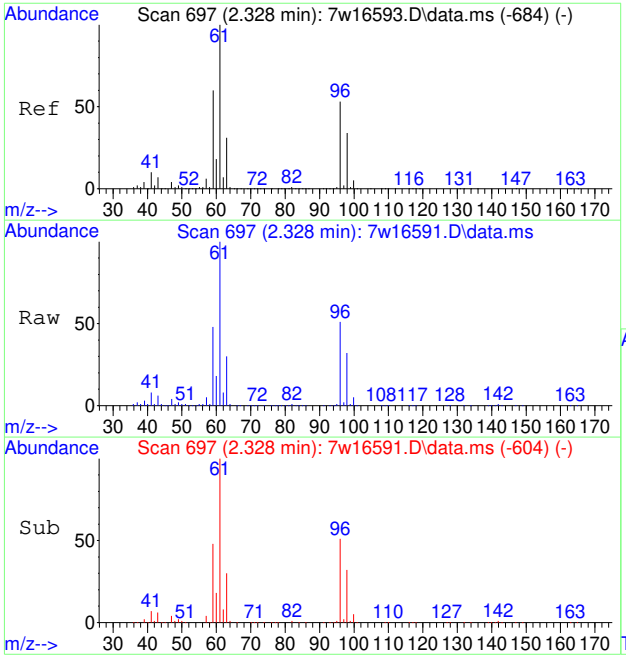


#25
IODOMETHANE
Concen: 19.59 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:142 Resp: 541893

Ion	Ratio	Lower	Upper
142	100		
127	43.5	32.1	59.7

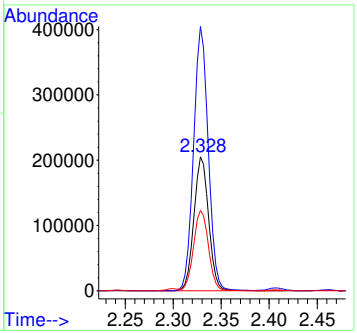


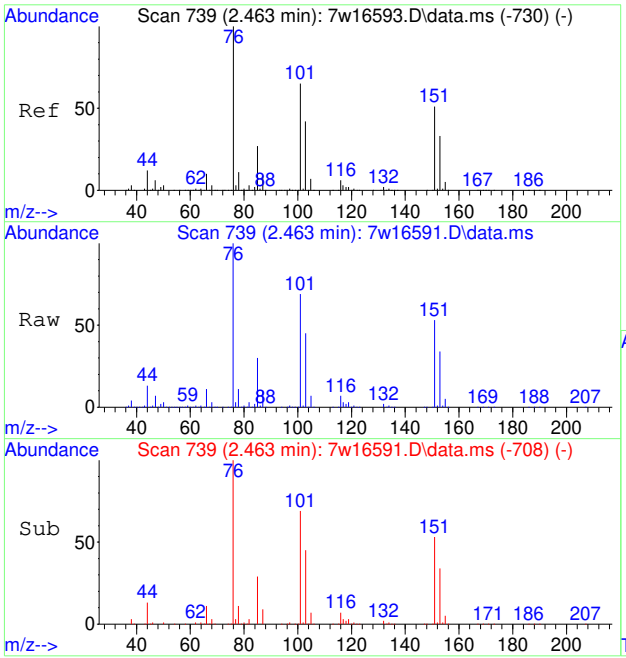


#26
1,1-DICHLOROETHYLENE
Concen: 19.61 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 219577

Ion	Ratio	Lower	Upper
96	100		
61	196.0	98.3	182.5#
63	62.1	33.2	61.7#

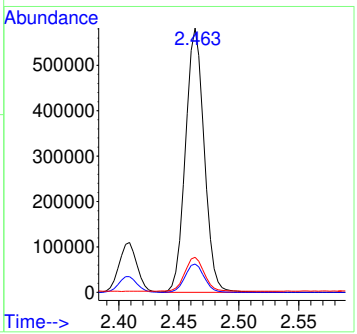


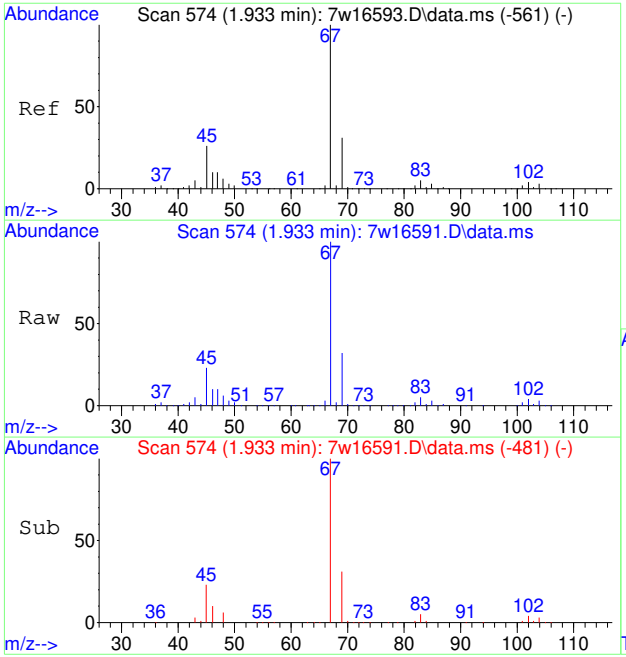


#27
CARBON DISULFIDE
Concen: 19.43 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 631688

Ion	Ratio	Lower	Upper
76	100		
78	11.0	8.3	15.3
44	13.5	13.0	24.1

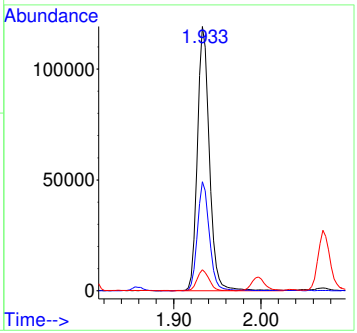


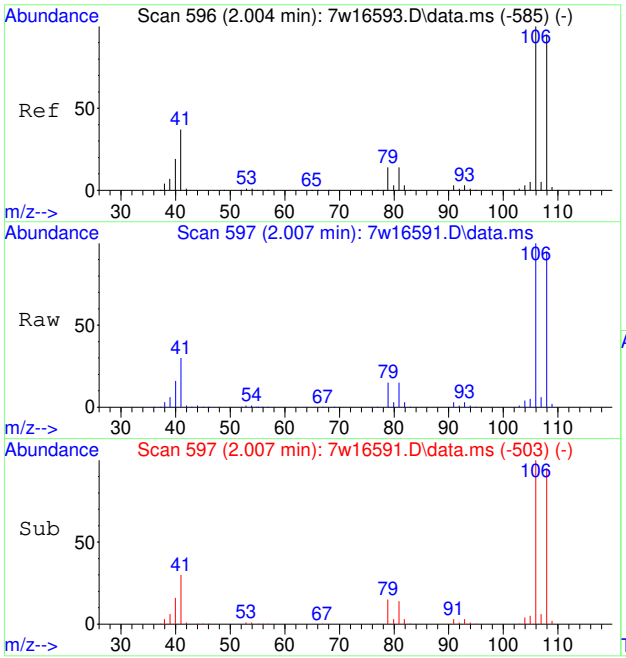


#28
ETHANOL
Concen: 17.84 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 45 Resp: 114301

Ion	Ratio	Lower	Upper
45	100		
46	41.1	29.7	55.1
42	7.9	7.3	13.5

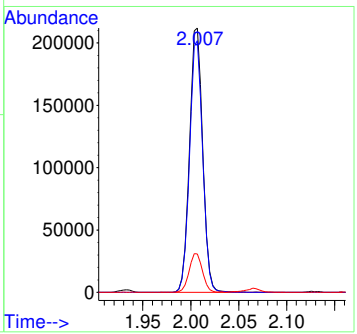


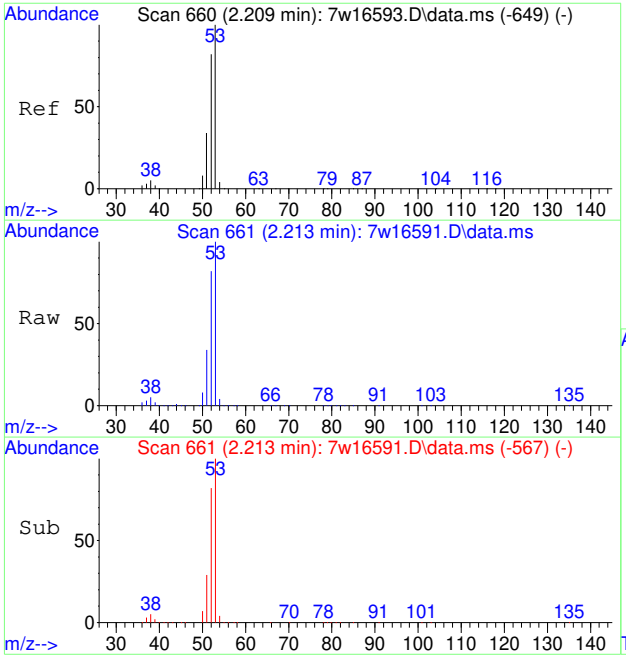


#29
BROMOETHENE
Concen: 18.58 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:106 Resp: 202351

Ion	Ratio	Lower	Upper
106	100		
108	94.8	68.3	126.8
81	15.0	14.7	27.3

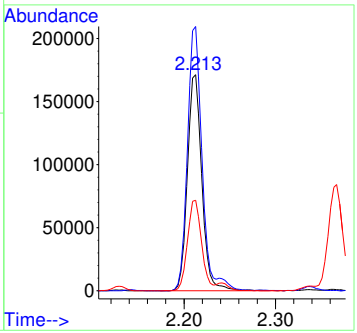


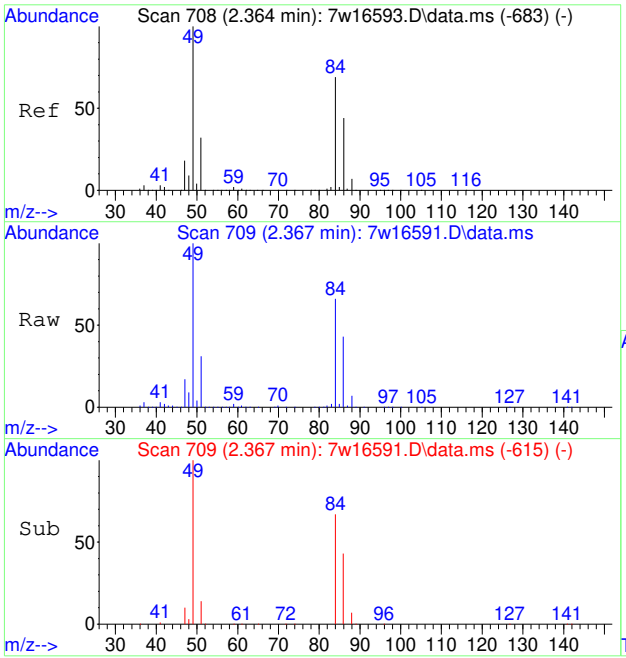


#30
ACRYLONITRILE
Concen: 19.57 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 52 Resp: 187985

Ion	Ratio	Lower	Upper
52	100		
53	124.7	86.3	160.3
51	44.3	33.6	62.4

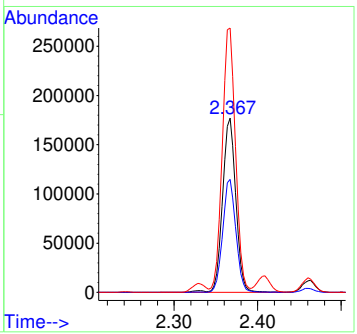


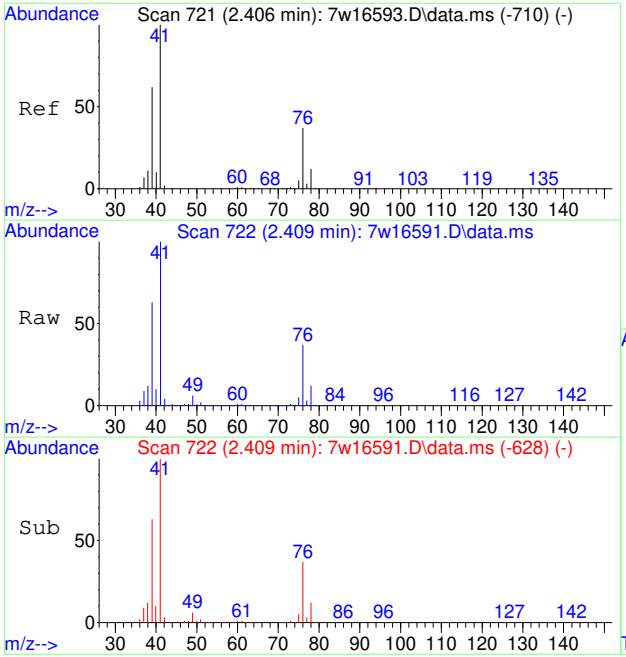


#31
METHYLENE CHLORIDE
Concen: 18.45 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 196005

Ion	Ratio	Lower	Upper
84	100		
86	64.3	44.9	83.5
49	151.2	79.7	148.1#

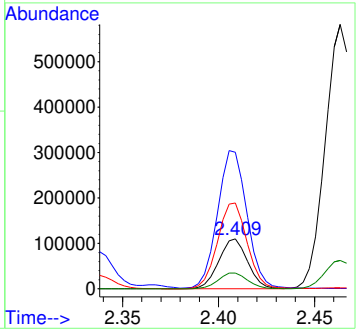


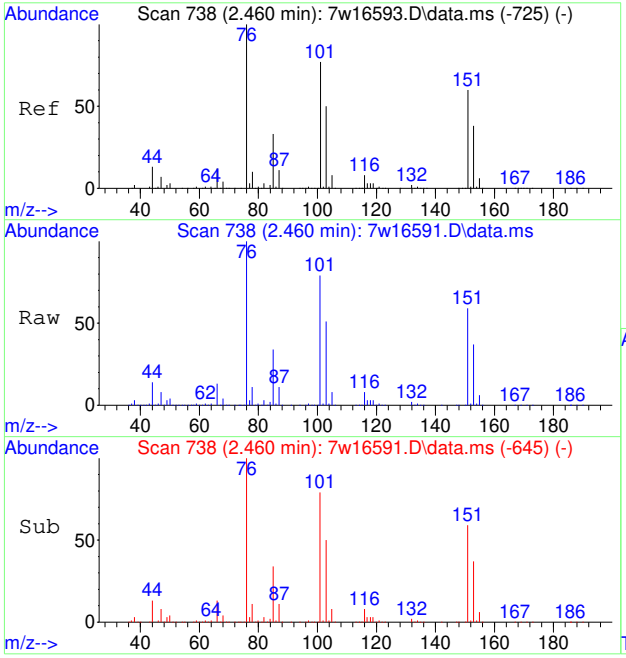


#32
3-CHLOROPROPENE
Concen: 18.95 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 114925

Ion	Ratio	Lower	Upper
76	100		
41	283.8	160.9	298.9
39	176.4	150.7	279.9
78	32.4	22.7	42.1

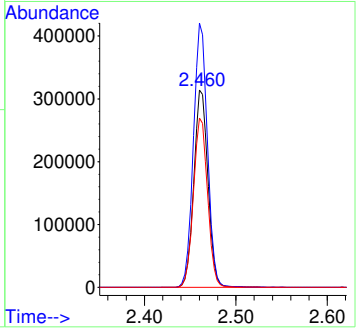


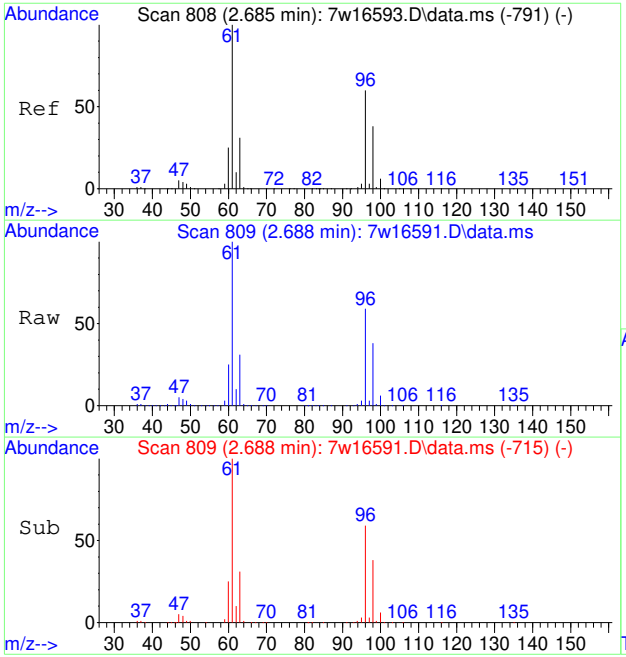


#33
FREON 113
Concen: 19.33 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:151 Resp: 337394

Ion	Ratio	Lower	Upper
151	100		
101	133.1	81.1	150.7
103	86.2	51.4	95.4

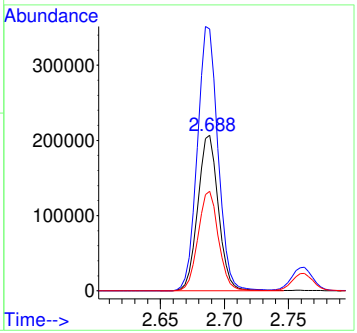


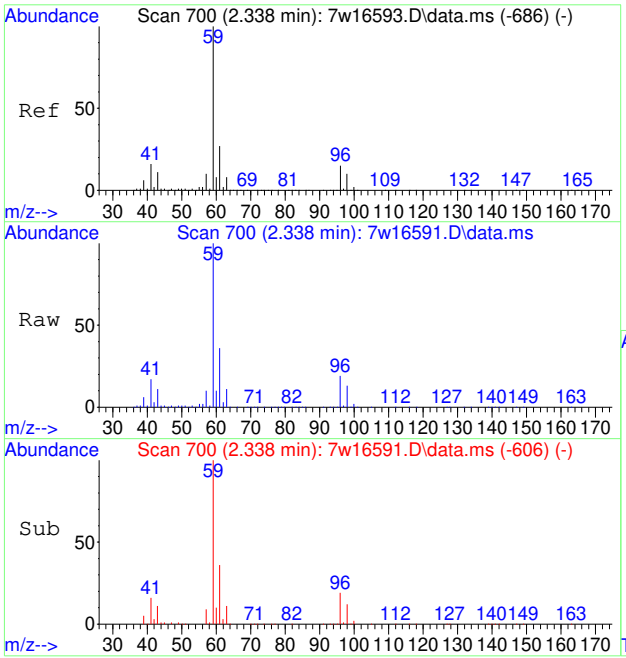


#34
TRANS-1,2-DICHLOROETHENE
Concen: 18.75 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 231431

Ion	Ratio	Lower	Upper
96	100		
61	170.1	78.5	145.9#
98	63.6	46.5	86.3

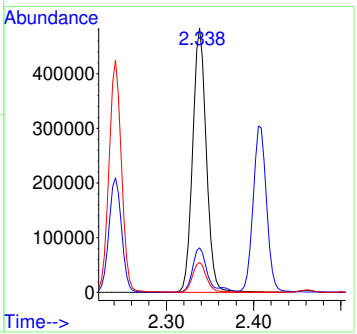


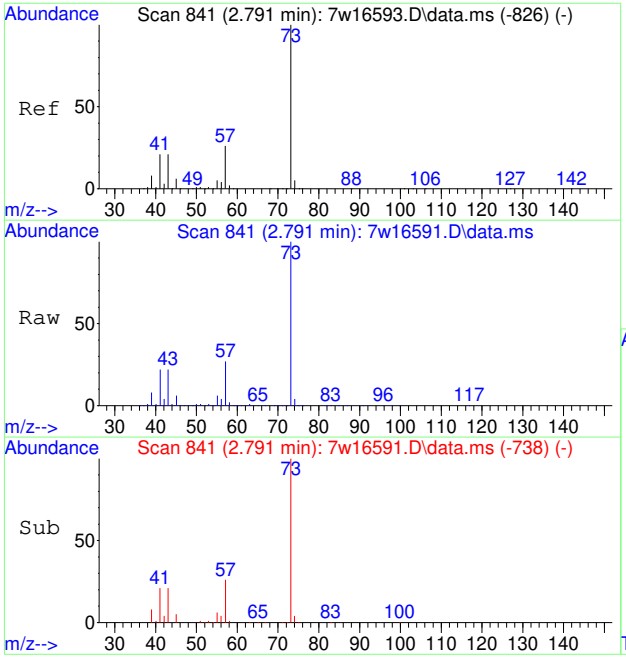


#35
TERTIARY BUTYL ALCOHOL
Concen: 17.25 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 526848

Ion	Ratio	Lower	Upper
59	100		
41	18.2	15.3	28.5
43	11.7	12.3	22.9#

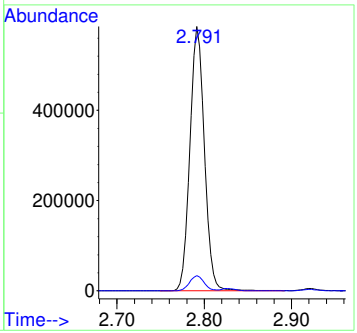


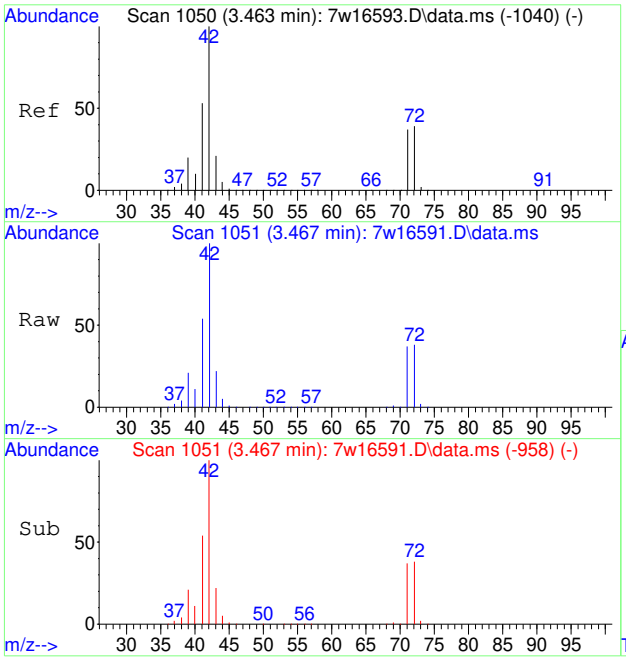


#36
METHYL TERTIARY BUTYL ETHER
Concen: 19.29 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 73 Resp: 677061

Ion	Ratio	Lower	Upper
73	100		
45	5.8	3.4	6.4

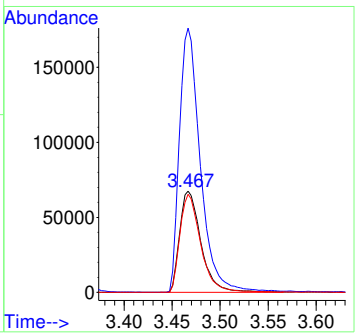




#37
TETRAHYDROFURAN
Concen: 17.84 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

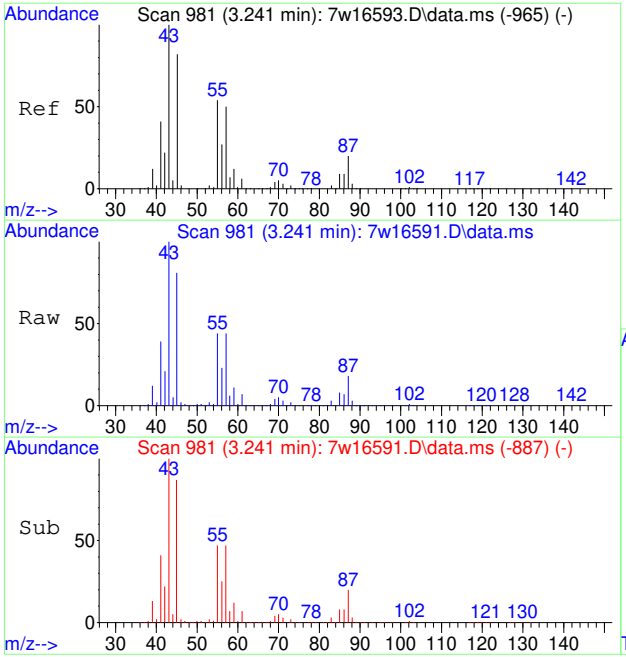
Tgt Ion: 72 Resp: 104573

Ion	Ratio	Lower	Upper
72	100		
42	257.1	153.0	284.2
71	95.4	62.7	116.5



7.7.19

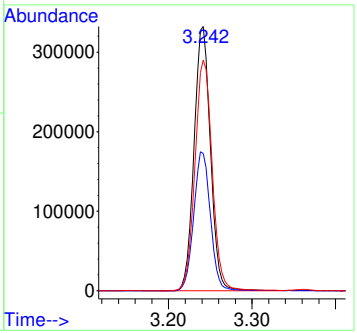
7

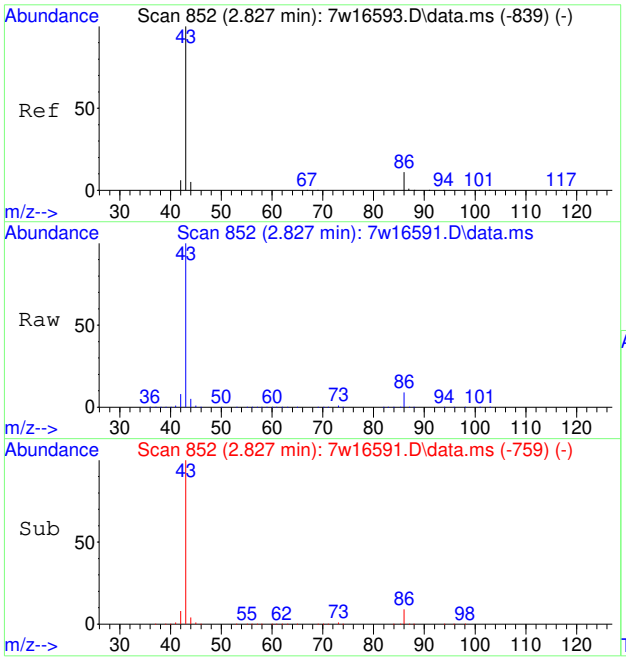


#38
HEXANE
Concen: 19.51 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 453219

Ion	Ratio	Lower	Upper
57	100		
56	53.6	37.3	69.3
41	92.0	86.7	161.1

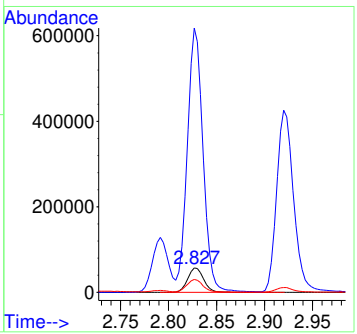


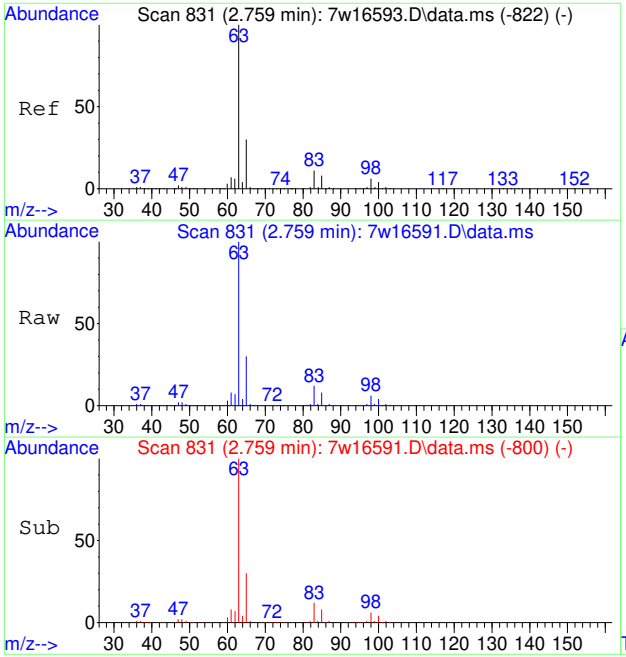


#39
VINYL ACETATE
Concen: 19.48 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 86 Resp: 66441

Ion	Ratio	Lower	Upper
86	100		
43	1069.2	667.9	1240.3
44	51.6	32.7	60.7

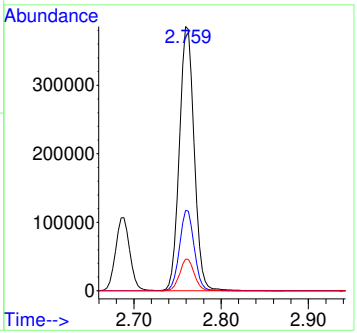


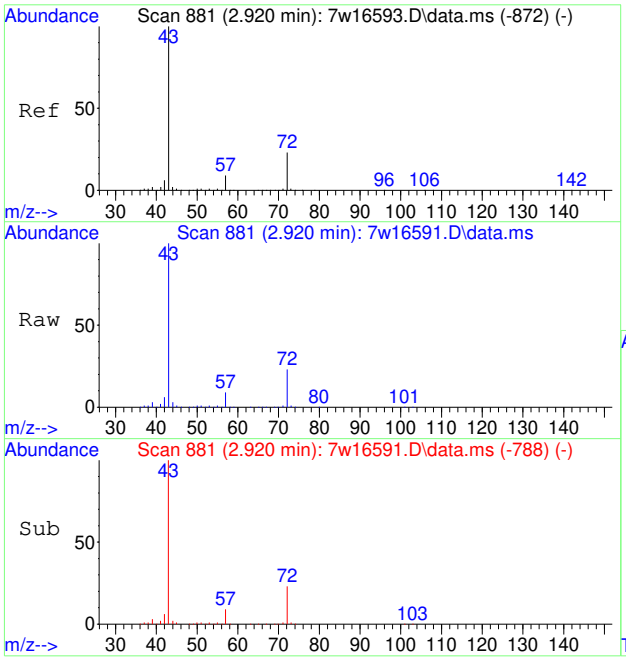


#40
1,1-DICHLOROETHANE
Concen: 18.70 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 455143

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.8	40.6
83	12.0	10.6	19.6

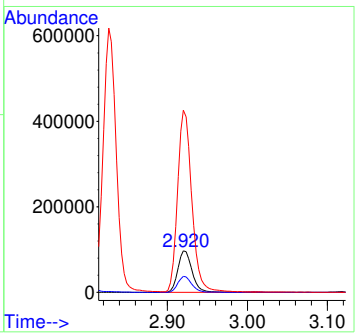


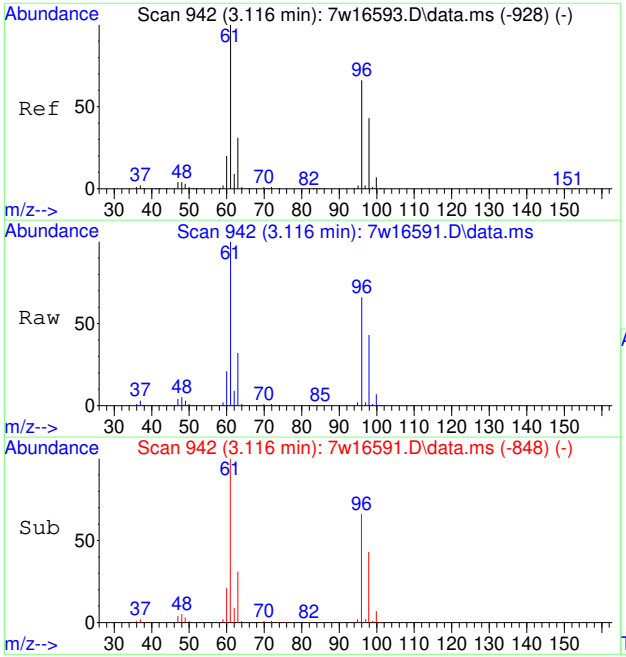


#41
METHYL ETHYL KETONE
Concen: 19.21 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 72 Resp: 120276

Ion	Ratio	Lower	Upper
72	100		
57	38.0	20.3	37.7#
43	440.9	282.8	525.2

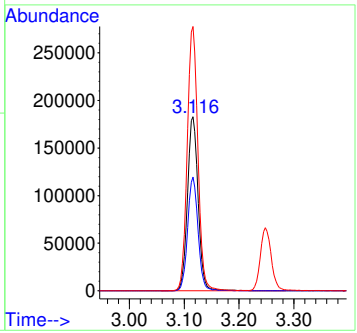


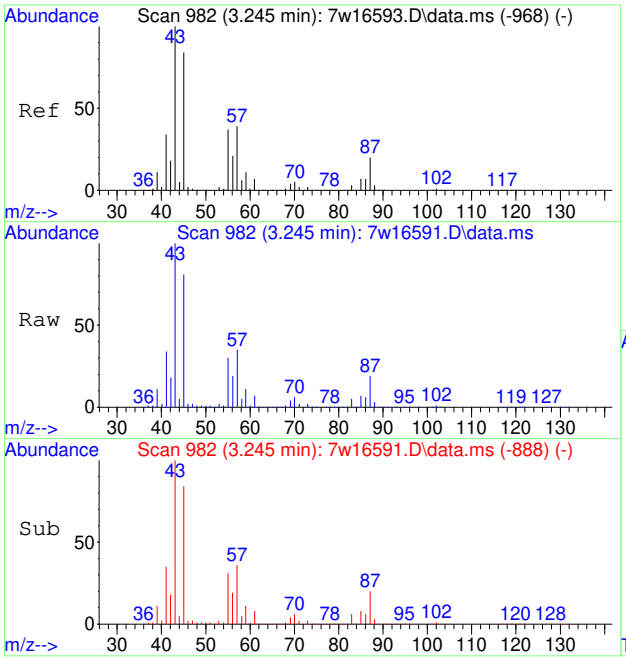


#42
CIS-1,2-DICHLOROETHENE
Concen: 19.20 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 96 Resp: 246893

Ion	Ratio	Lower	Upper
96	100		
98	64.1	46.8	86.8
61	152.2	78.3	145.5#

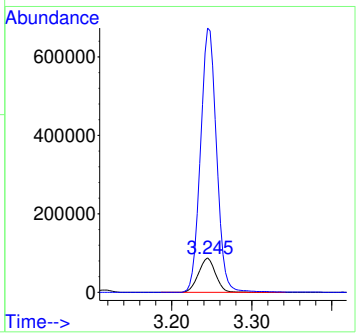


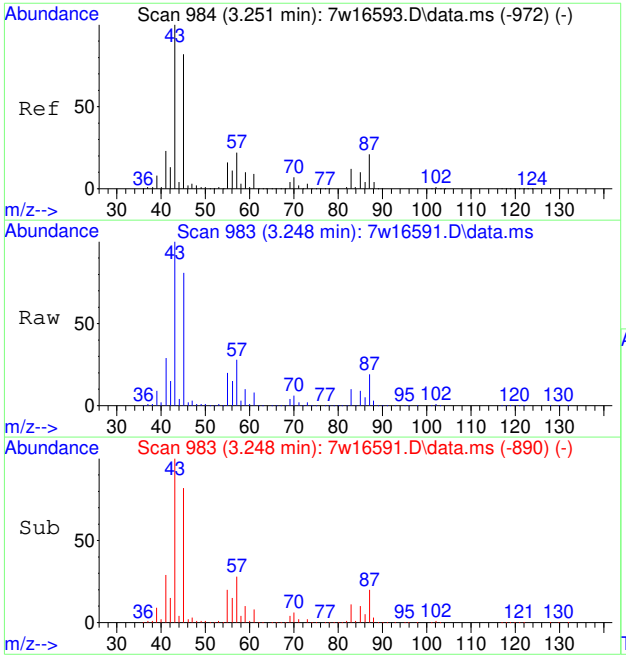


#43
DIISOPROPYL ETHER
Concen: 19.57 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 59 Resp: 130636

Ion	Ratio	Lower	Upper
59	100		
45	725.2	532.1	988.1

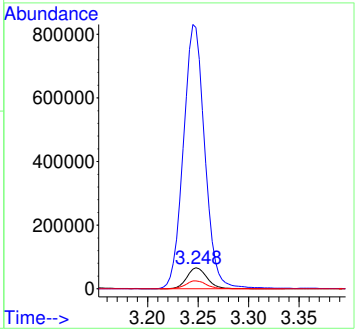


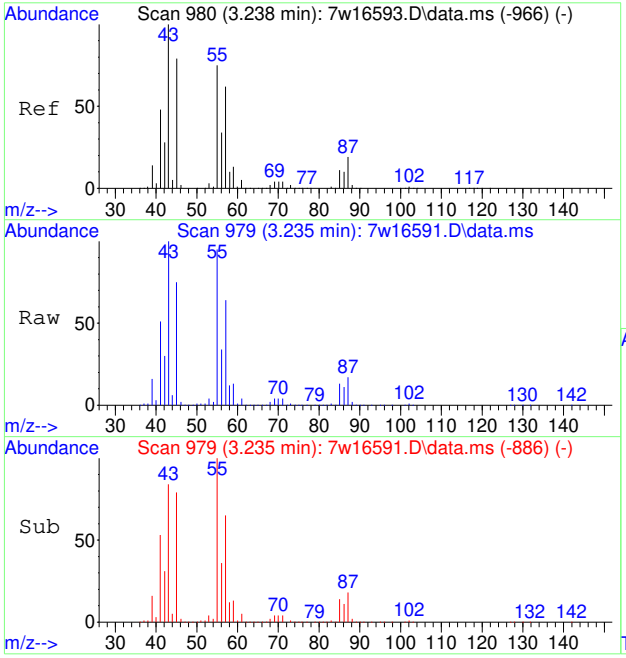


#44
ETHYL ACETATE
Concen: 19.72 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 61 Resp: 93045

Ion	Ratio	Lower	Upper
61	100		
43	1321.4	1127.5	2093.9
88	38.9	36.2	67.2

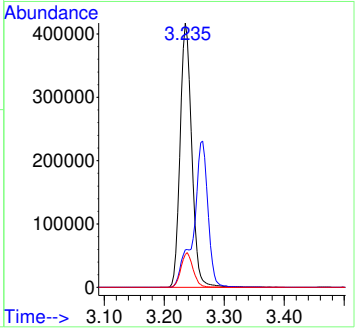


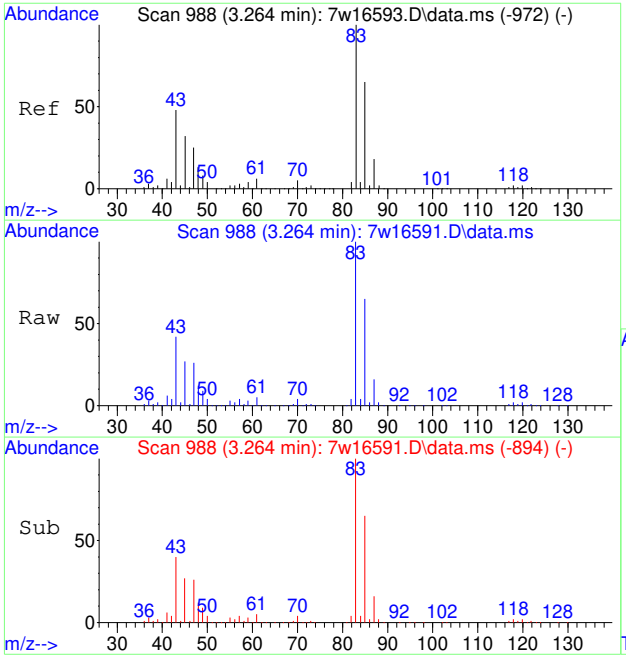


#45
METHYL ACRYLATE
Concen: 19.52 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 561273

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.2	17.0

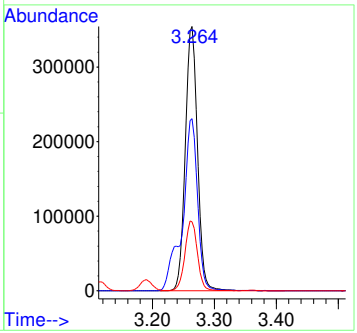


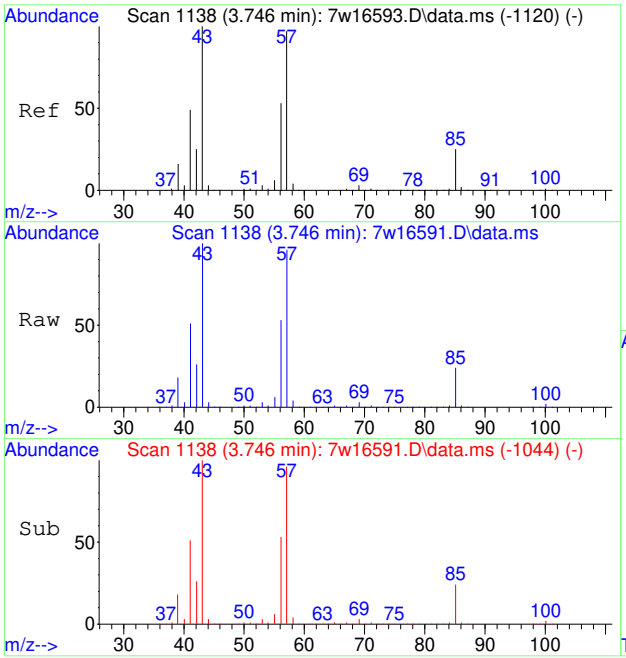


#46
CHLOROFORM
Concen: 19.05 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 484502

Ion	Ratio	Lower	Upper
83	100		
85	80.5	54.6	101.4
47	27.1	17.9	33.3

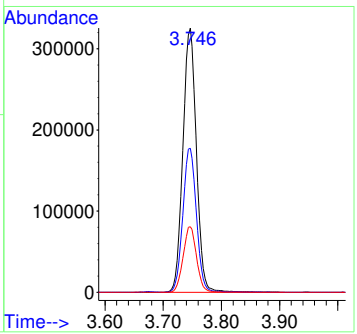


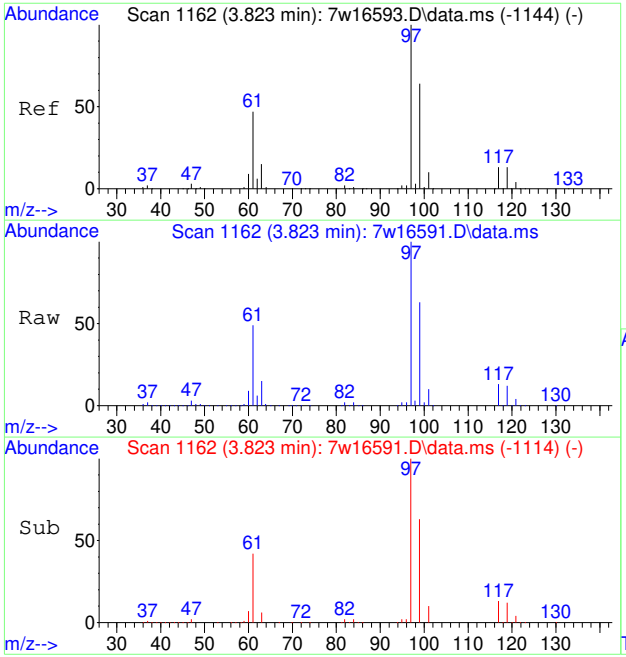


#47
2,4-DIMETHYLPENTANE
Concen: 19.82 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 525364

Ion	Ratio	Lower	Upper
57	100		
56	55.2	39.2	72.8
85	24.9	24.1	44.7

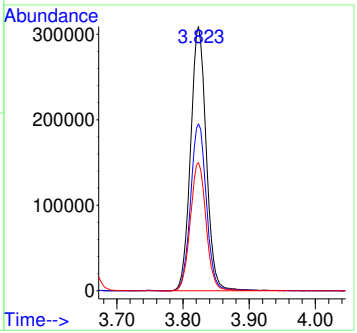


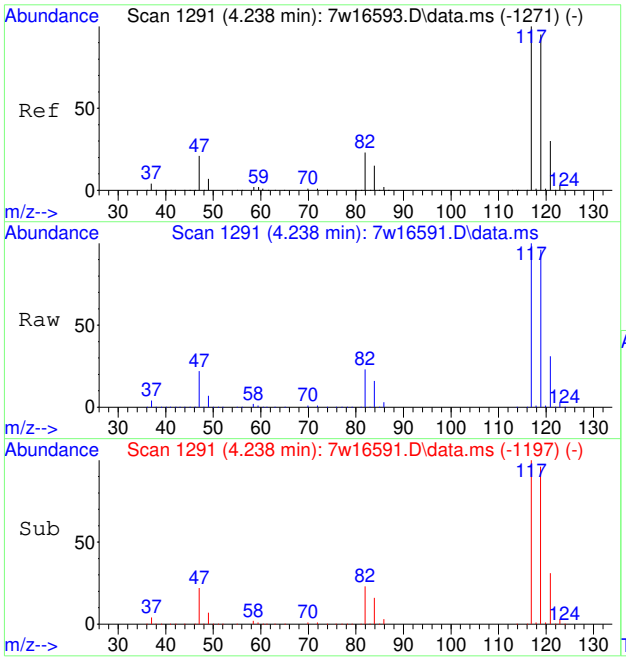


#48
1,1,1-TRICHLOROETHANE
Concen: 19.19 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 97 Resp: 508992

Ion	Ratio	Lower	Upper
97	100		
99	64.0	44.9	83.5
61	48.9	28.6	53.0

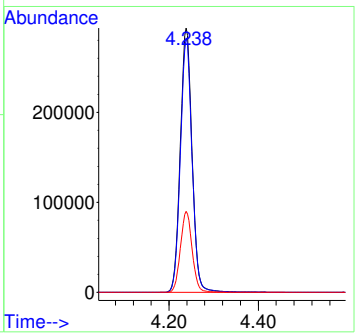


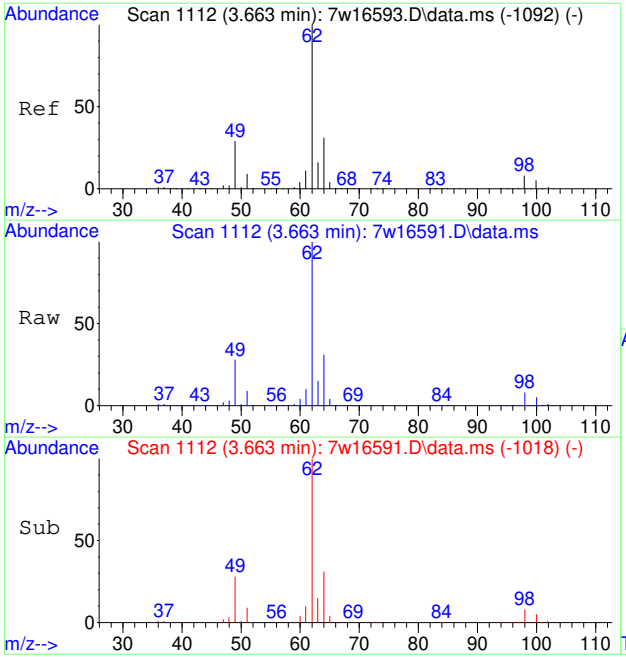


#49
CARBON TETRACHLORIDE
Concen: 18.95 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 536446

Ion	Ratio	Lower	Upper
117	100		
119	95.9	68.8	127.8
121	30.7	22.2	41.2

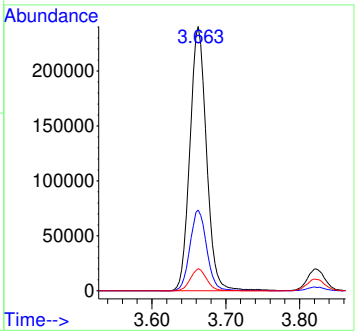


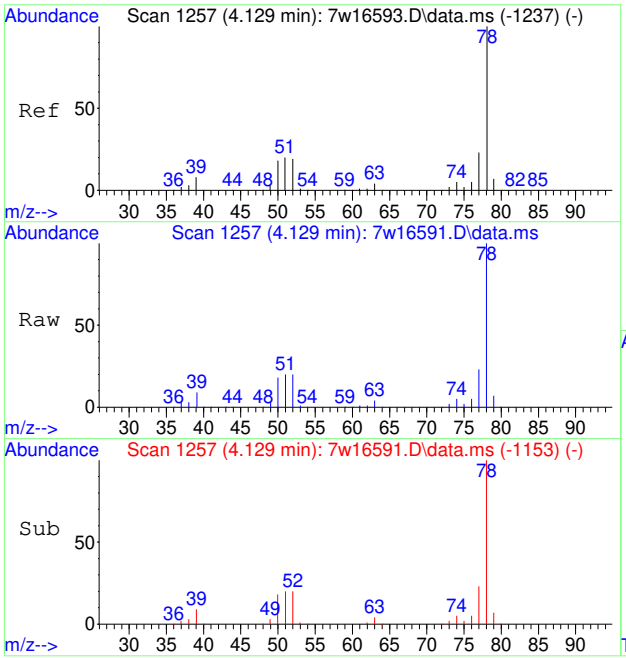


#50
1,2-DICHLOROETHANE
Concen: 18.79 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 62 Resp: 375248

Ion	Ratio	Lower	Upper
62	100		
64	31.0	22.5	41.7
98	8.2	6.8	12.6

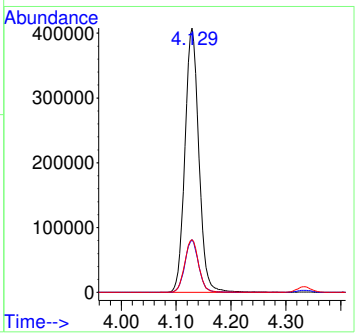


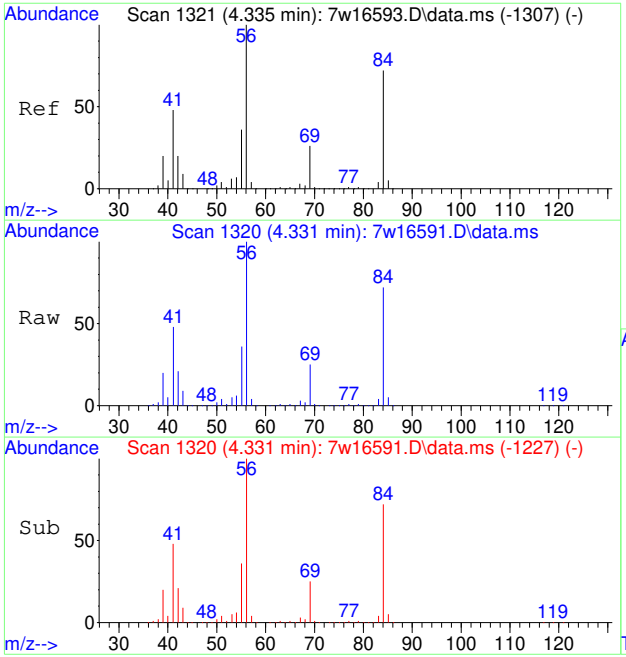


#51
BENZENE
Concen: 19.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 78 Resp: 718150

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	44.6
51	20.1	0.0	47.3

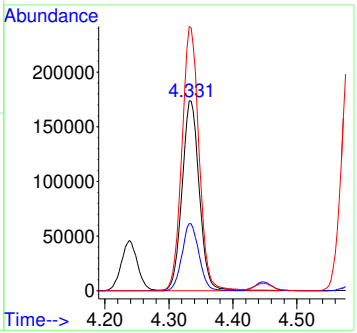


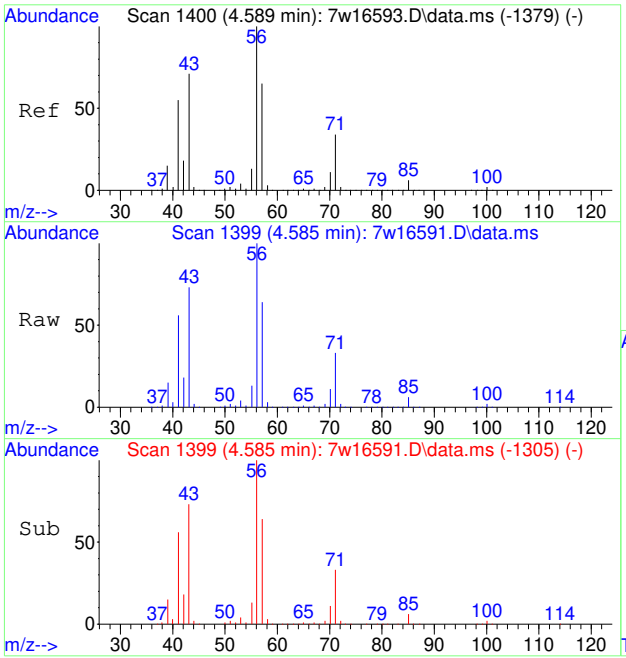


#53
CYCLOHEXANE
Concen: 19.45 PPBV
RT: 4.331 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 84 Resp: 325475

Ion	Ratio	Lower	Upper
84	100		
69	35.0	22.3	41.5
56	137.7	70.2	130.4#

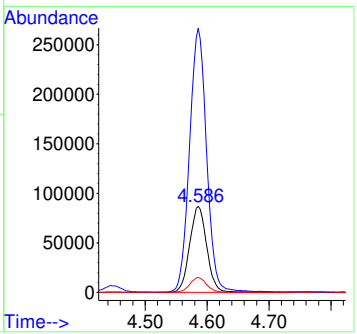


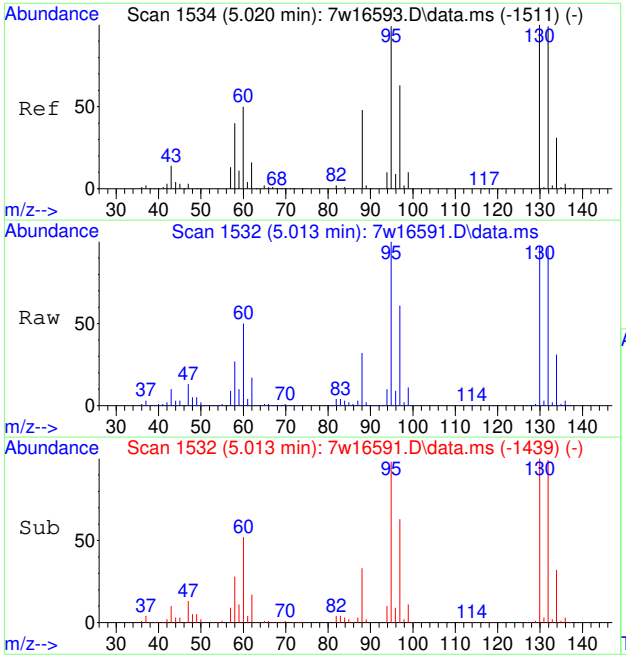


#54
2,3-DIMETHYLPENTANE
Concen: 19.60 PPBV
RT: 4.585 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 71 Resp: 167011

Ion	Ratio	Lower	Upper
71	100		
56	306.1	171.4	318.4
85	17.4	12.6	23.4

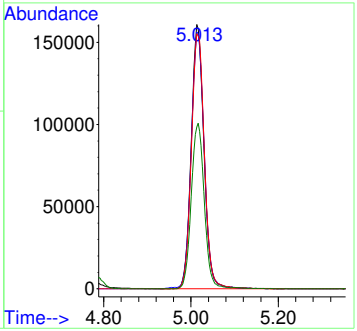


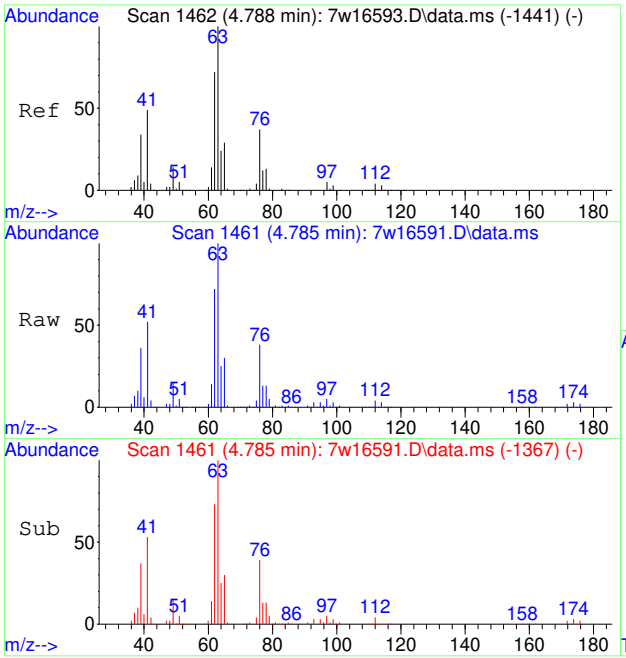


#55
TRICHLOROETHENE
Concen: 18.36 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 95 Resp: 327435

Ion	Ratio	Lower	Upper
95	100		
130	99.6	85.9	159.5
132	98.7	79.4	147.4
97	64.2	45.0	83.6

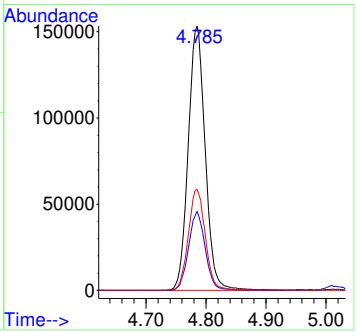


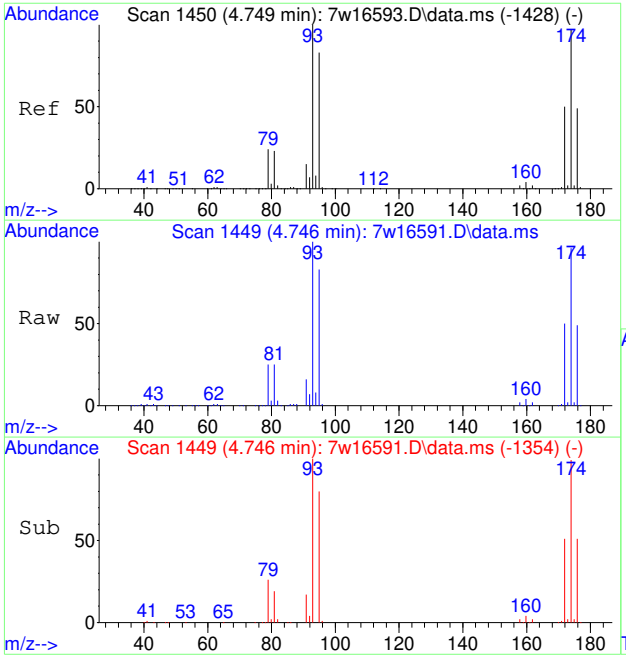


#56
1,2-DICHLOROPROPANE
Concen: 19.23 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 63 Resp: 302257

Ion	Ratio	Lower	Upper
63	100		
65	29.4	22.6	42.0
76	38.4	31.8	59.0

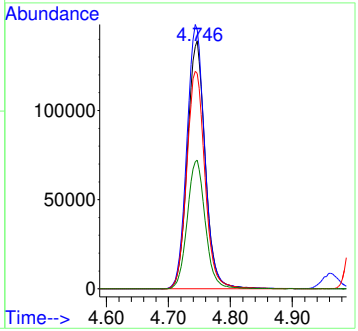


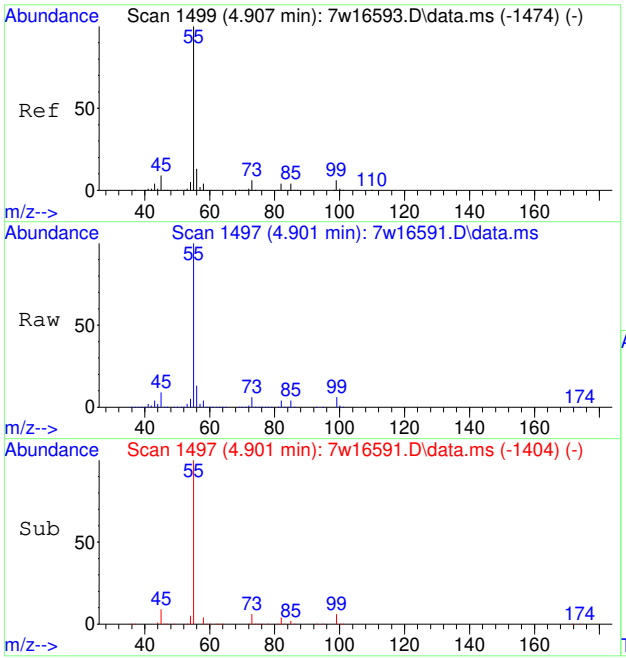


#57
DIBROMOMETHANE
Concen: 19.08 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:174 Resp: 277930

Ion	Ratio	Lower	Upper
174	100		
93	107.2	67.3	125.1
95	89.6	56.8	105.6
172	52.5	36.3	67.5

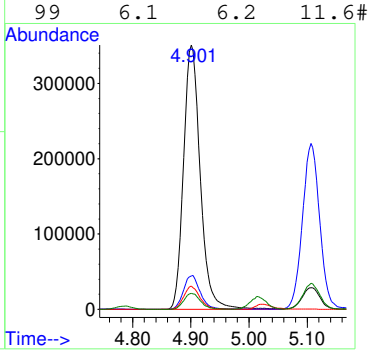


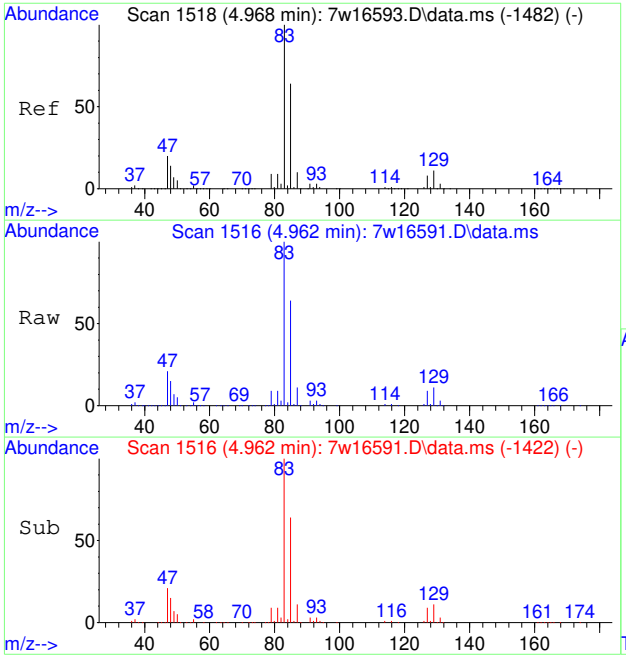


#58
ETHYL ACRYLATE
Concen: 19.73 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 55 Resp: 703238

Ion	Ratio	Lower	Upper
55	100		
56	12.8	7.9	14.7
45	8.7	6.6	12.2
99	6.1	6.2	11.6#

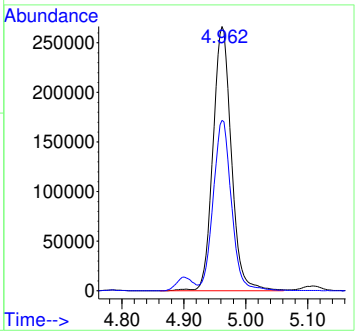


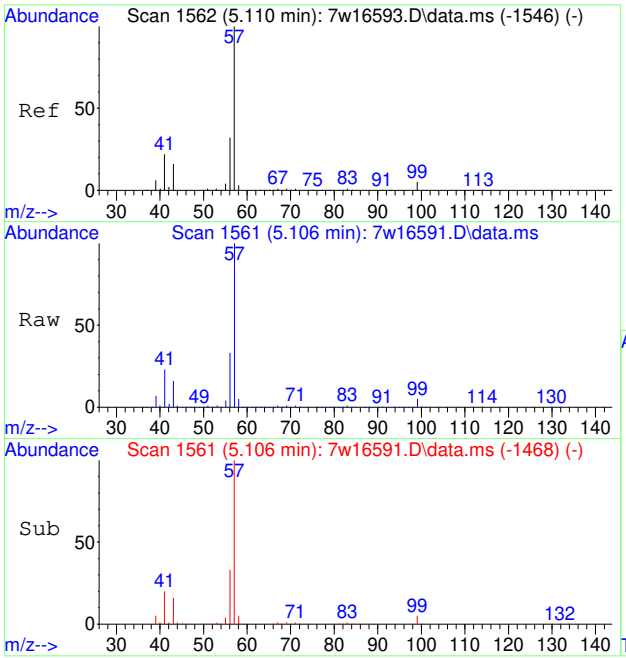


#59
BROMODICHLOROMETHANE
Concen: 18.61 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 549357

Ion	Ratio	Lower	Upper
83	100		
85	64.6	44.9	83.5

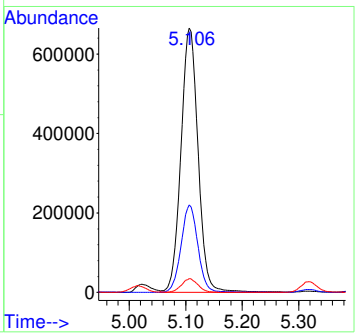


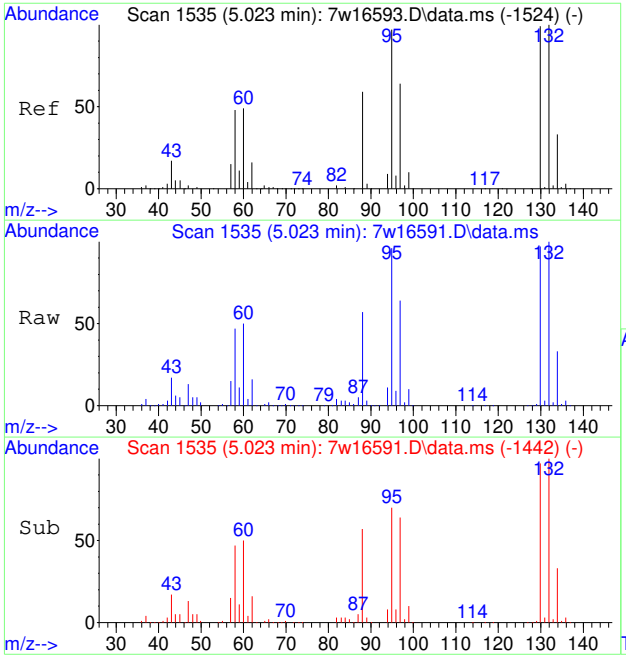


#60
2,2,4-TRIMETHYLPENTANE
Concen: 18.90 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 57 Resp: 1404688

Ion	Ratio	Lower	Upper
57	100		
56	32.6	24.4	45.2
99	5.1	5.2	9.6#

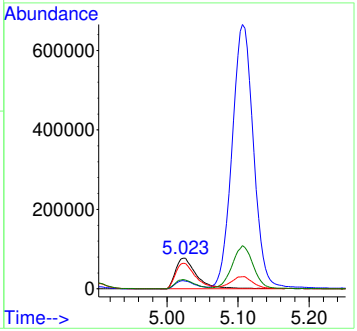


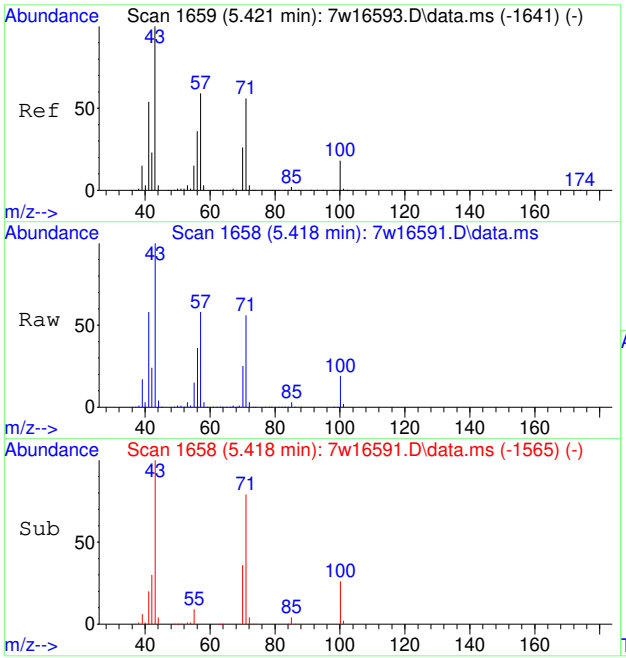


#61
1,4-DIOXANE
Concen: 18.11 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 88 Resp: 159487

Ion	Ratio	Lower	Upper
88	100		
57	24.0	13.1	24.3
58	77.6	39.1	72.5#
43	27.7	18.3	33.9

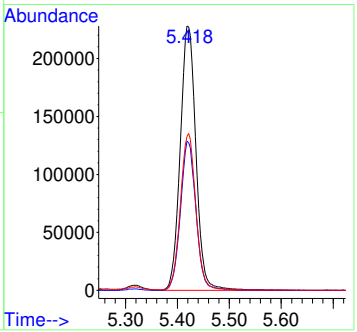


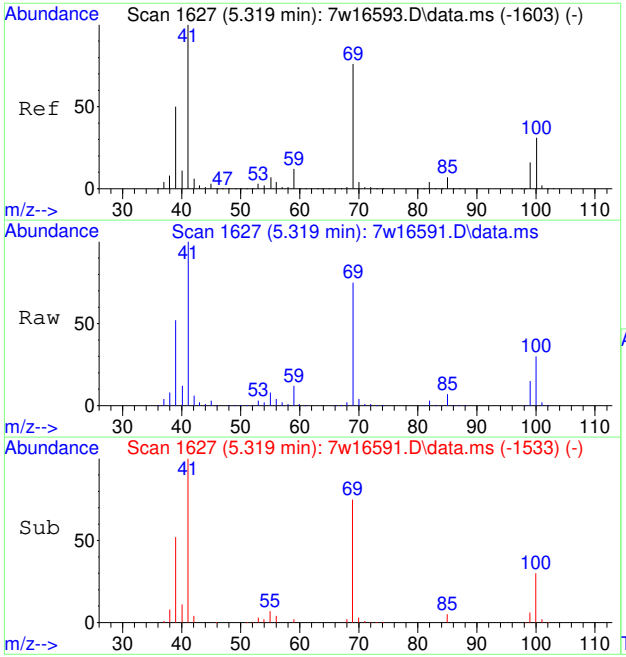


#62
HEPTANE
Concen: 19.19 PPBV
RT: 5.418 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 476905

Ion	Ratio	Lower	Upper
43	100		
71	55.8	45.0	83.6
57	58.6	37.2	69.0

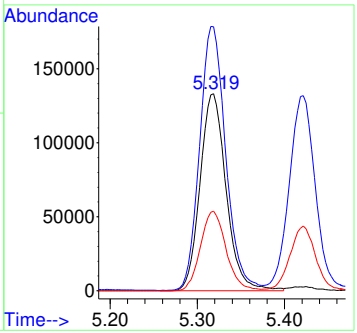


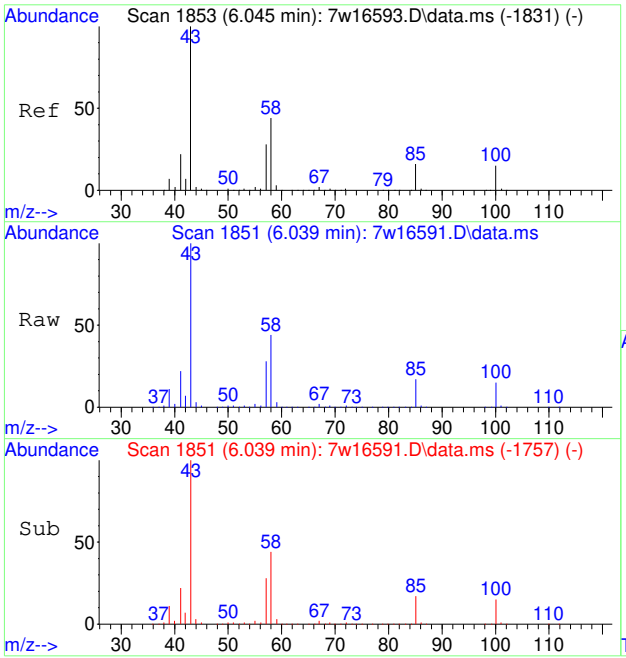


#63
METHYL METHACRYLATE
Concen: 19.41 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 276982

Ion	Ratio	Lower	Upper
69	100		
41	133.5	84.3	156.5
100	39.8	30.8	57.2

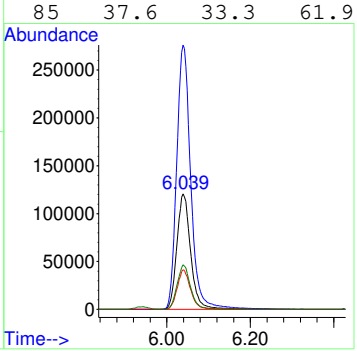


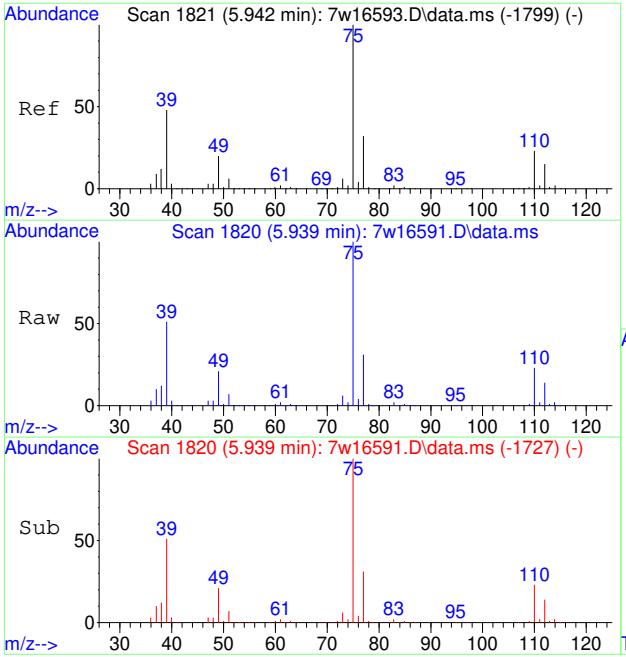


#64
METHYL ISOBUTYL KETONE
Concen: 19.00 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 278396

Ion	Ratio	Lower	Upper
58	100		
43	0.0	193.8	360.0#
100	33.4	32.8	60.8
85	37.6	33.3	61.9

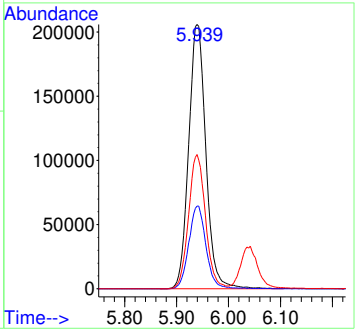


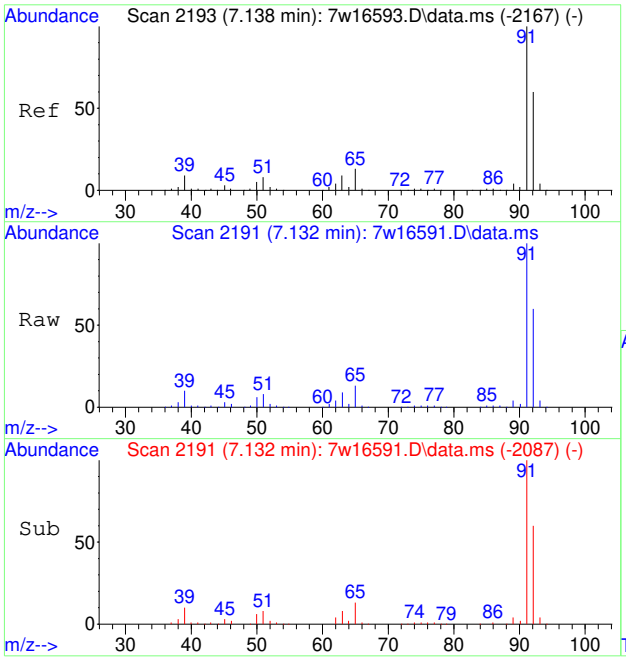


#65
CIS-1,3-DICHLOROPROPENE
Concen: 19.04 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 474515

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	40.8
39	50.0	38.5	71.5

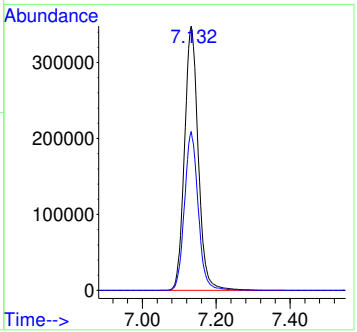


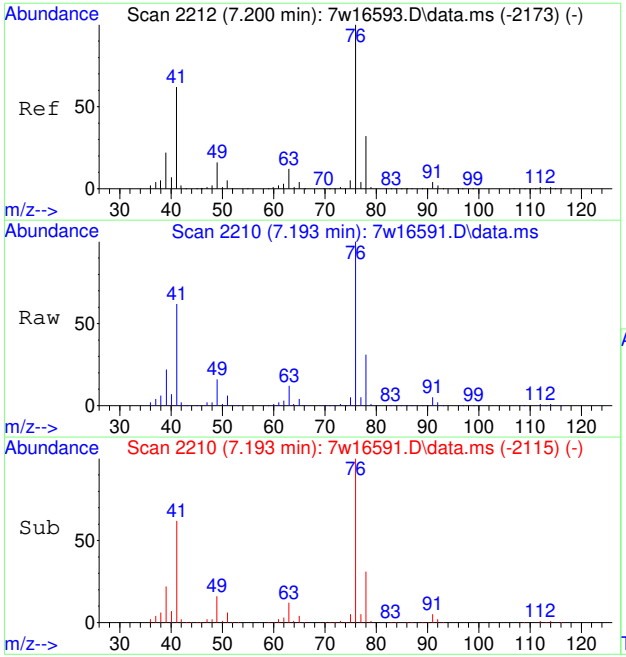


#66
TOLUENE
Concen: 19.86 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 898243

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.1	88.1

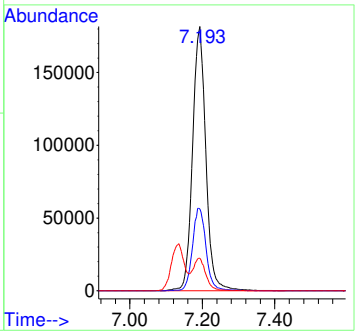


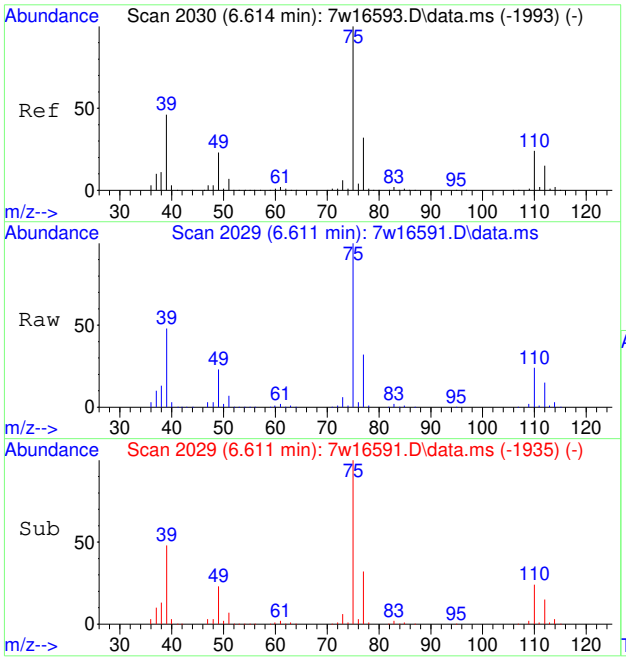


#67
1,3-DICHLOROPROPANE
Concen: 19.84 PPBV
RT: 7.193 min Scan# 2210
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 76 Resp: 463972

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.1	41.1
63	12.7	8.0	14.8

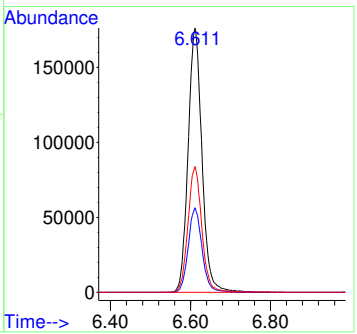


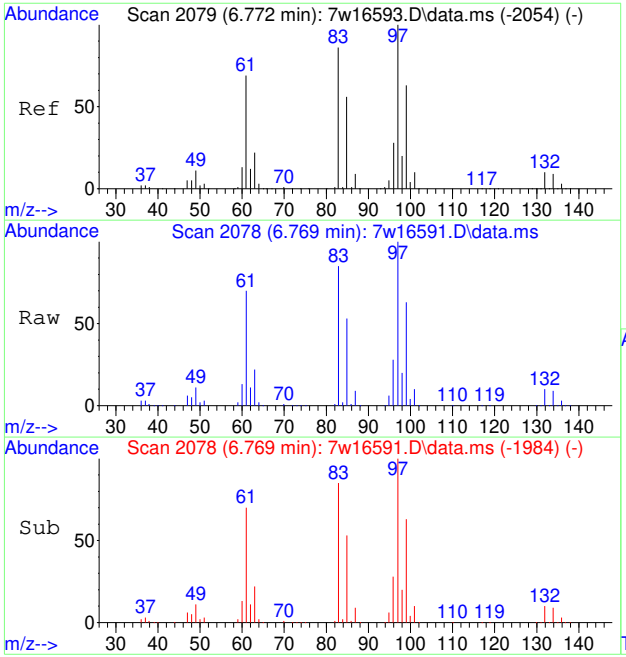


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 18.27 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 425650

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.5	41.7
39	47.6	37.2	69.0

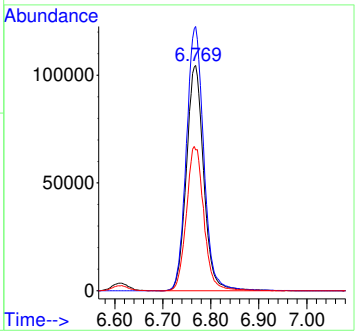


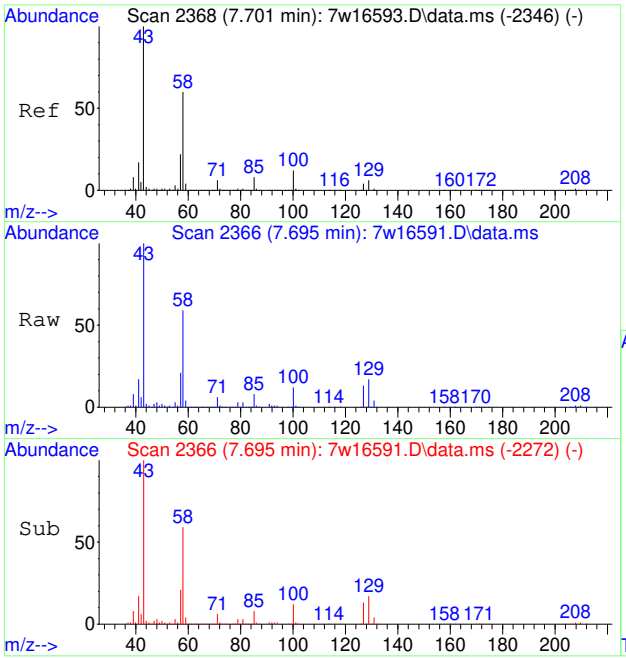


#69
1,1,2-TRICHLOROETHANE
Concen: 19.57 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 262141

Ion	Ratio	Lower	Upper
83	100		
97	117.5	86.7	160.9
85	64.8	45.5	84.5

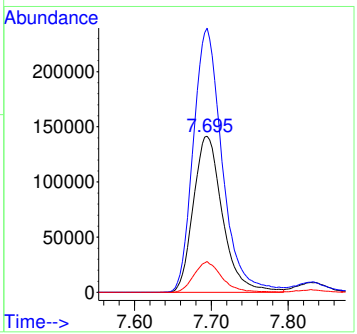


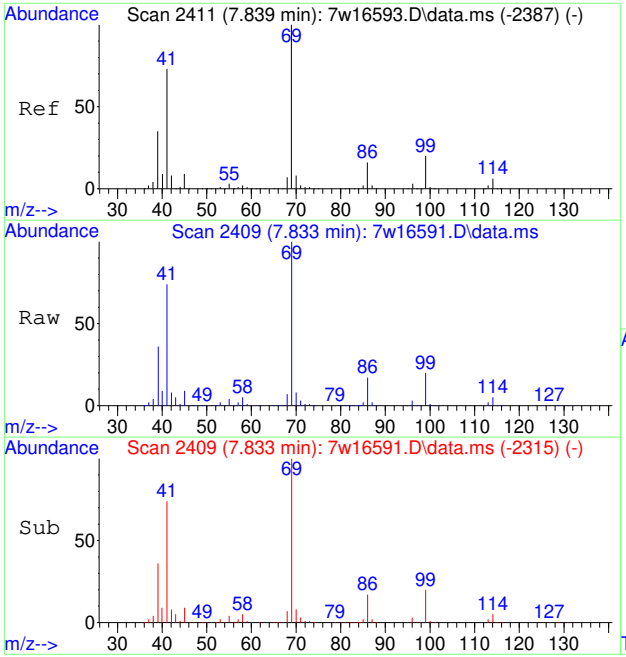


#70
2-HEXANONE
Concen: 19.43 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 58 Resp: 374273

Ion	Ratio	Lower	Upper
58	100		
43	167.3	141.7	263.3
100	18.8	18.9	35.1#

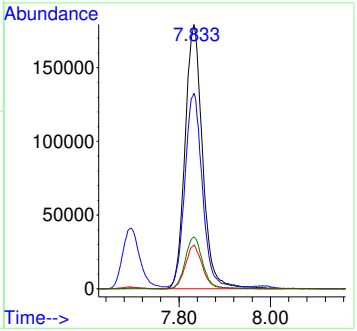


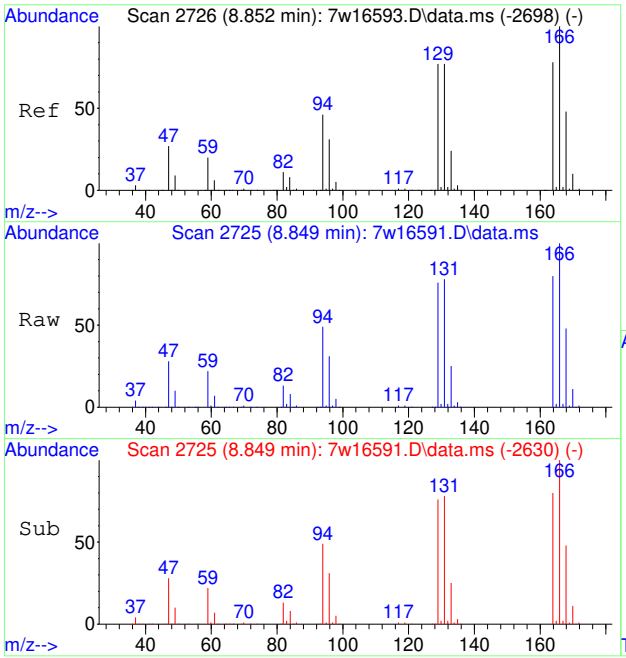


#71
ETHYL METHACRYLATE
Concen: 19.46 PPBV
RT: 7.833 min Scan# 2409
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 69 Resp: 477947

Ion	Ratio	Lower	Upper
69	100		
41	74.6	49.3	91.6
86	16.2	11.6	21.6
99	19.7	13.4	24.8

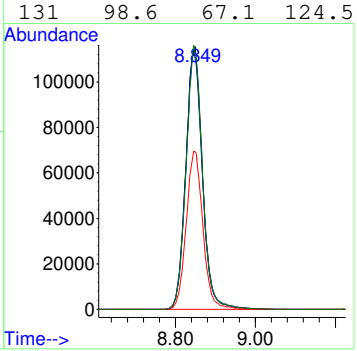


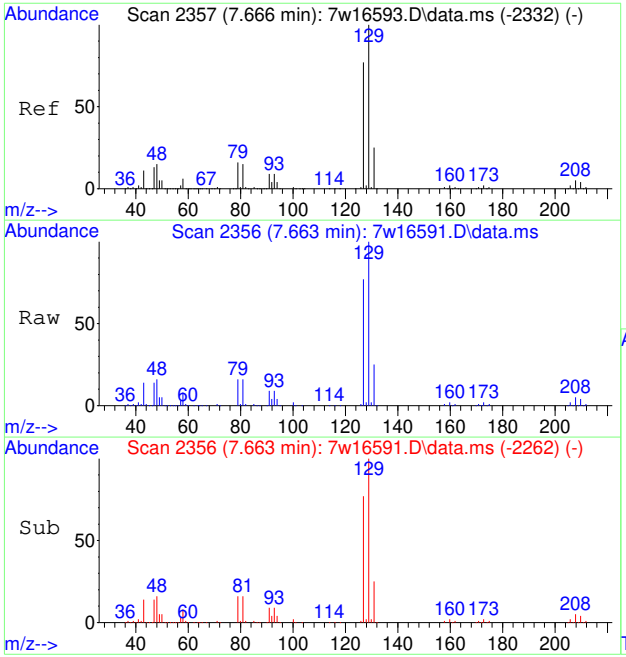


#72
TETRACHLOROETHENE
Concen: 20.14 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:164 Resp: 335304

Ion	Ratio	Lower	Upper
164	100		
129	98.3	69.7	129.5
168	60.2	43.4	80.6
131	98.6	67.1	124.5

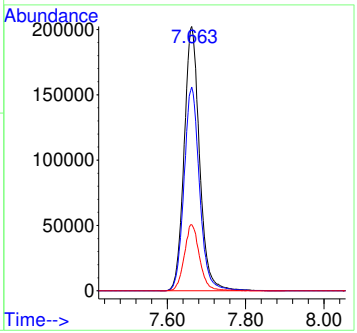


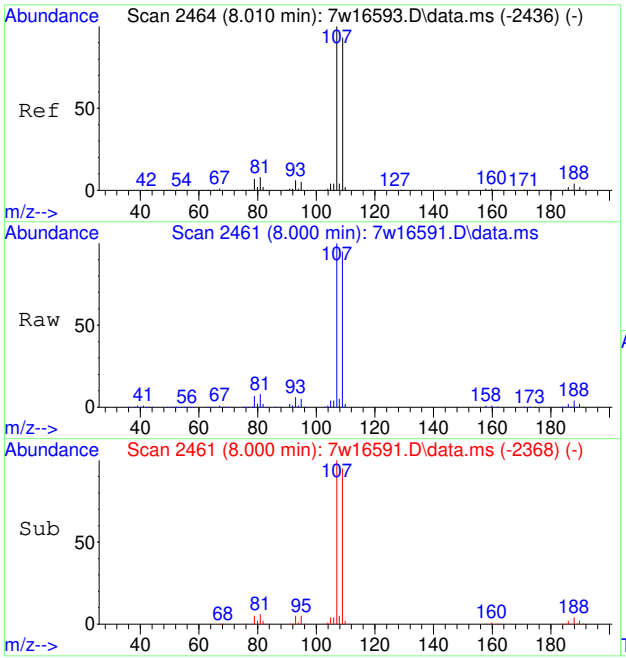


#73
DIBROMOCHLOROMETHANE
Concen: 19.81 PPBV
RT: 7.663 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:129 Resp: 551638

Ion	Ratio	Lower	Upper
129	100		
127	77.6	53.0	98.4
131	24.9	16.9	31.3

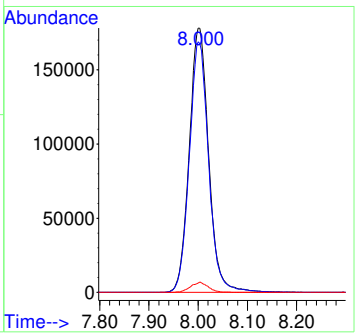


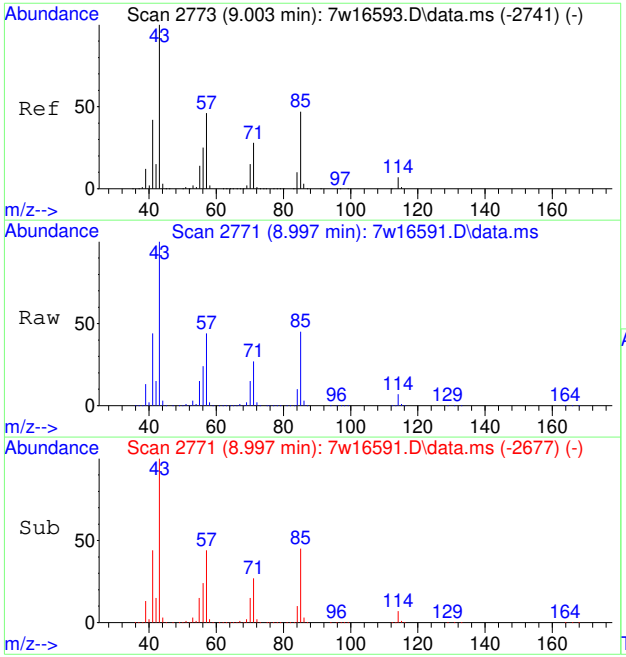


#74
1,2-DIBROMOETHANE
Concen: 20.42 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:107 Resp: 487978

Ion	Ratio	Lower	Upper
107	100		
109	94.6	65.7	122.1
188	3.6	2.4	4.4

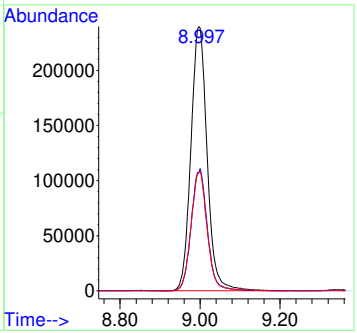


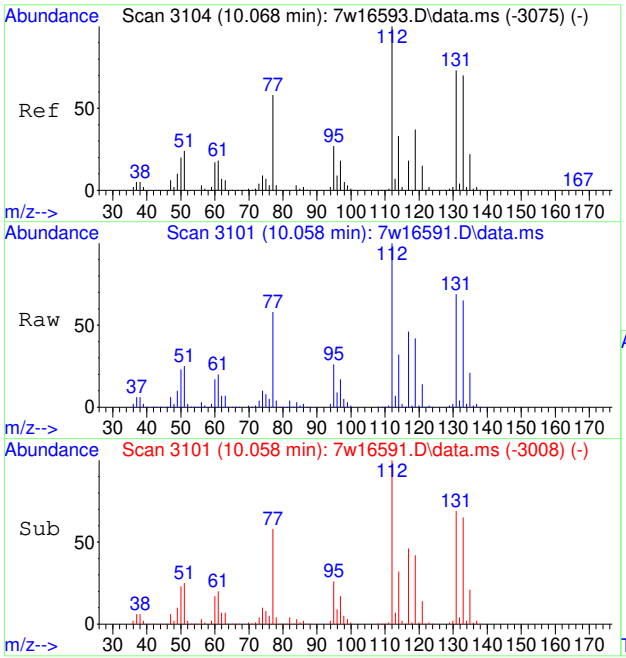


#75
OCTANE
Concen: 19.89 PPBV
RT: 8.997 min Scan# 2771
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 676810

Ion	Ratio	Lower	Upper
43	100		
85	45.8	36.5	67.9
57	44.8	27.6	51.2

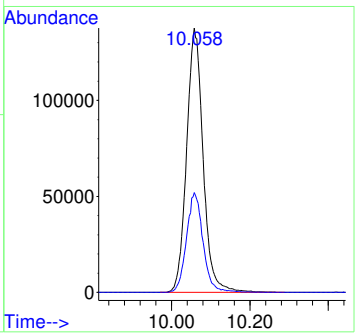


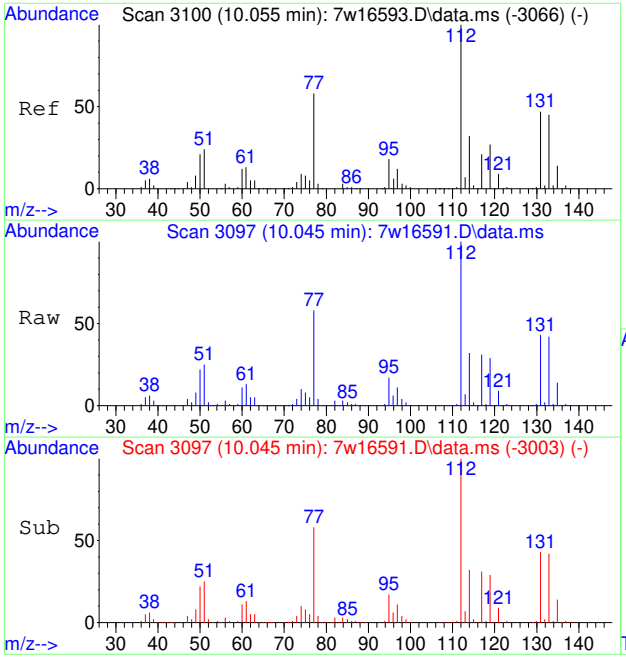


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 20.28 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:131 Resp: 402558

Ion	Ratio	Lower	Upper
131	100		
95	37.9	23.7	43.9

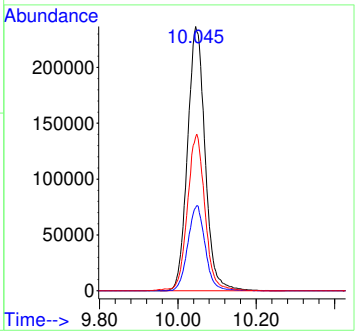


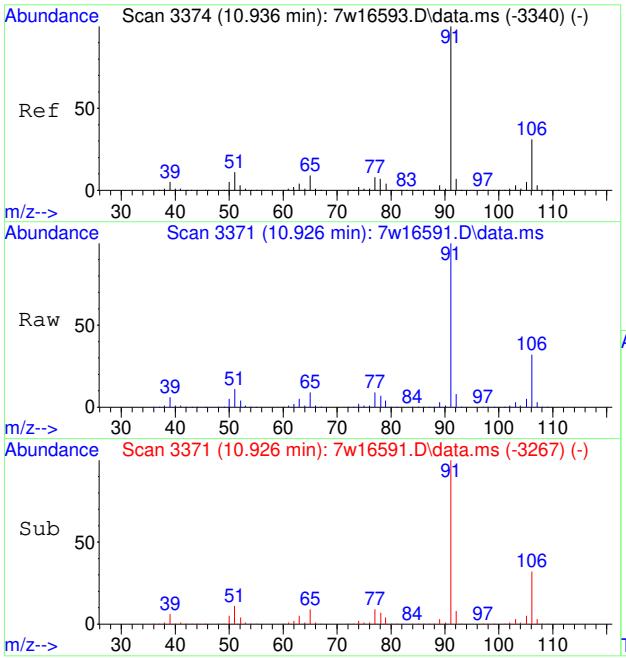


#78
CHLOROBENZENE
Concen: 20.26 PPBV
RT: 10.045 min Scan# 3097
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:112 Resp: 735731

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.9	42.5
77	59.4	34.4	63.8

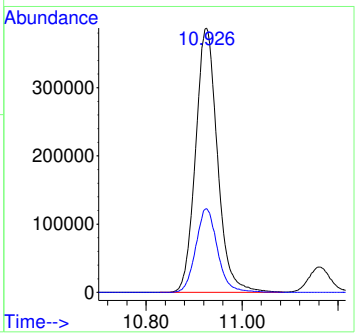


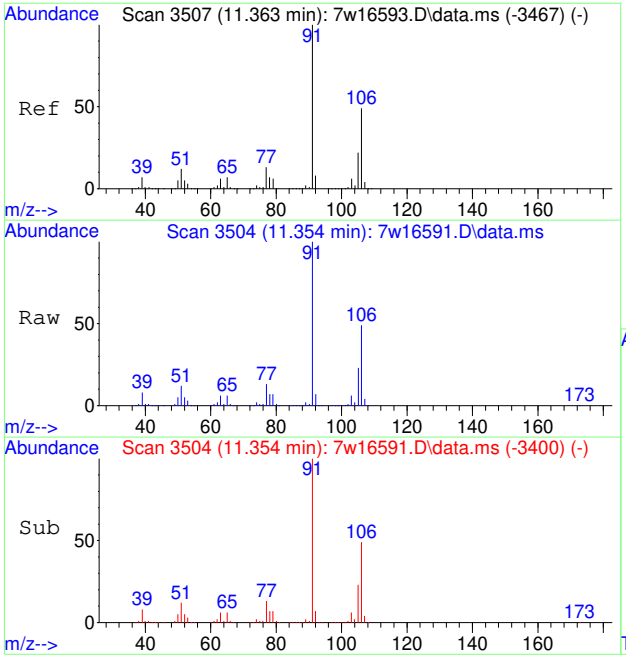


#79
ETHYLBENZENE
Concen: 20.44 PPBV
RT: 10.926 min Scan# 3371
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1222868

Ion	Ratio	Lower	Upper
91	100		
106	31.6	2.8	62.8

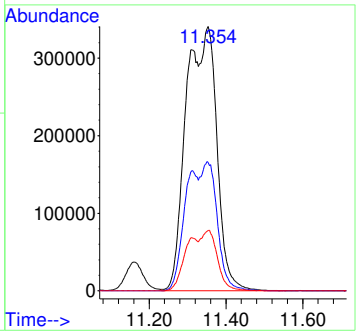


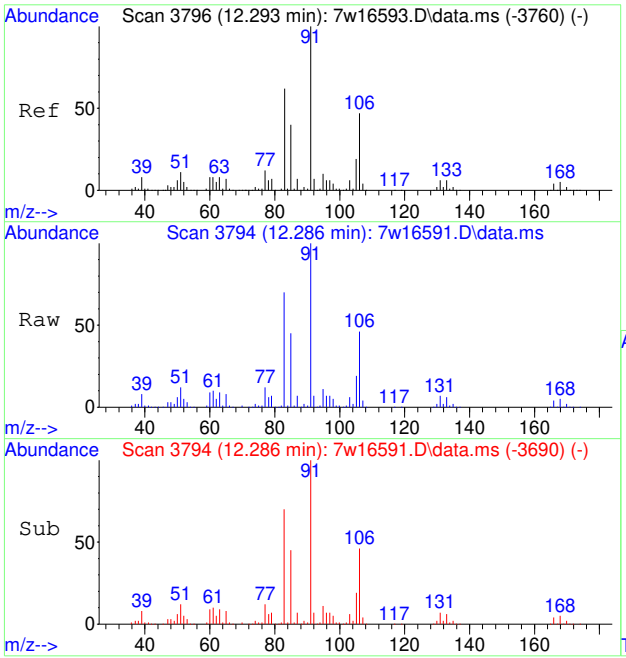


#80
M,P-XYLENE
Concen: 39.40 PPBV
RT: 11.354 min Scan# 3504
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1892381

Ion	Ratio	Lower	Upper
91	100		
106	27.4	0.0	58.7
105	12.7	0.0	43.2

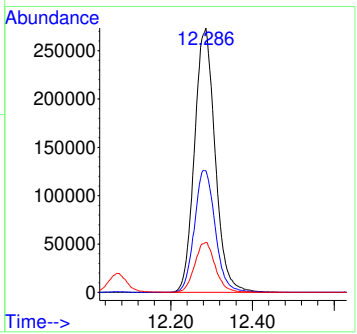


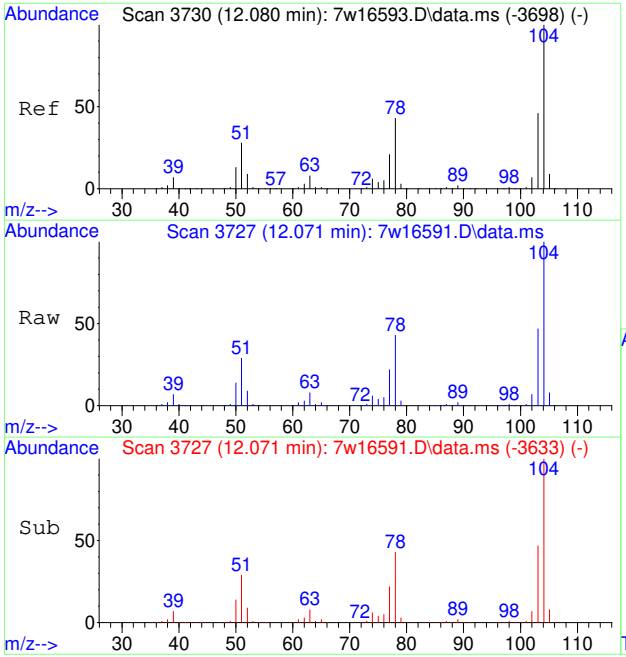


#81
O-XYLENE
Concen: 20.37 PPBV
RT: 12.286 min Scan# 3794
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 959093

Ion	Ratio	Lower	Upper
91	100		
106	46.0	34.1	63.3
105	18.8	14.6	27.2

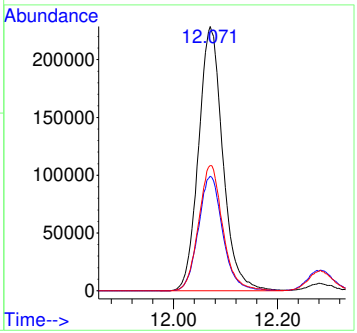


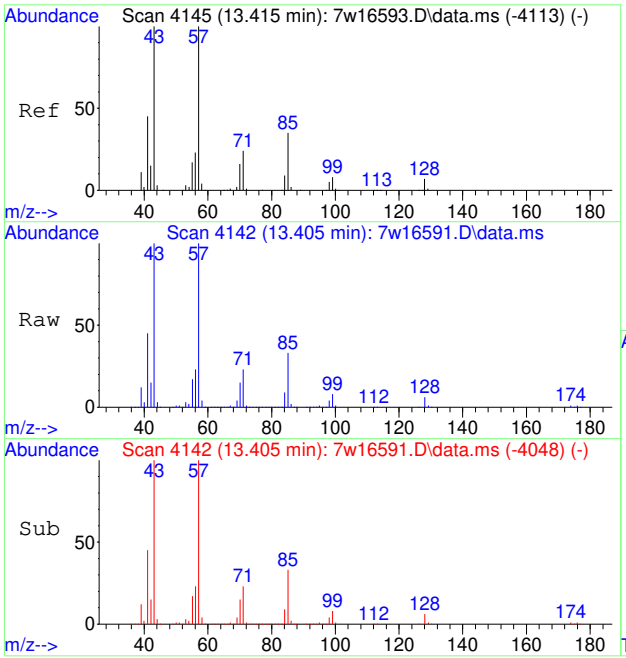


#82
STYRENE
Concen: 20.29 PPBV
RT: 12.071 min Scan# 3727
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:104 Resp: 744213

Ion	Ratio	Lower	Upper
104	100		
78	43.7	25.3	46.9
103	47.3	33.2	61.7

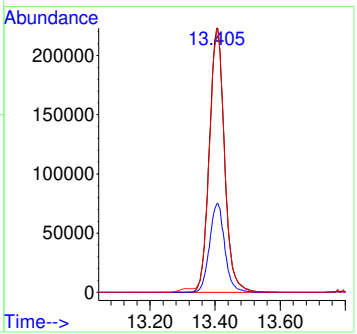


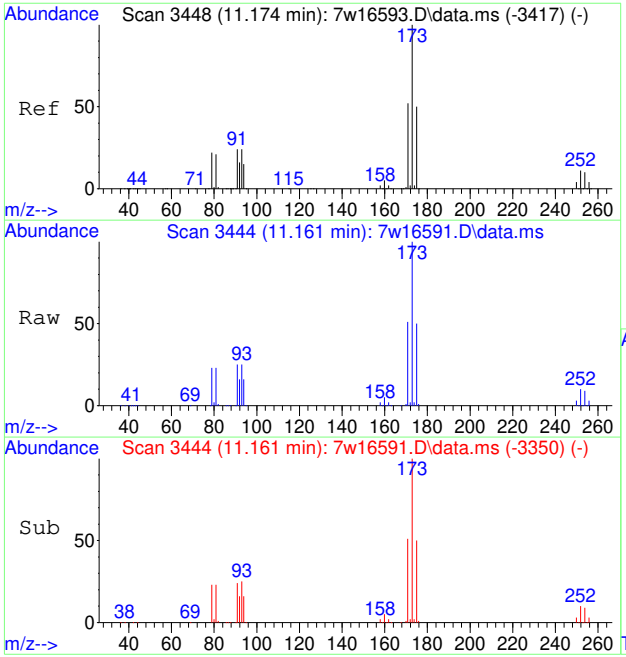


#83
NONANE
Concen: 20.03 PPBV
RT: 13.405 min Scan# 4142
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 43 Resp: 723418

Ion	Ratio	Lower	Upper
43	100		
85	33.6	27.6	51.2
57	99.4	56.4	104.7

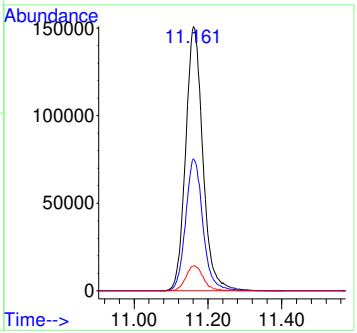


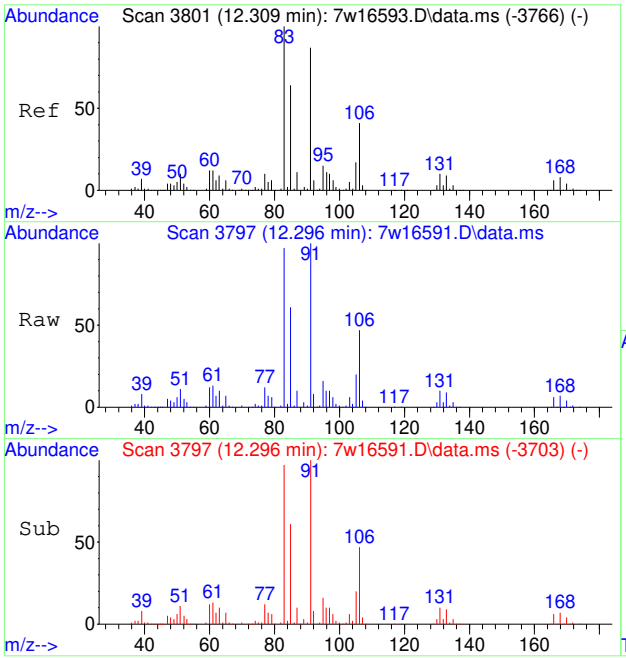


#84
BROMOFORM
Concen: 20.35 PPBV
RT: 11.161 min Scan# 3444
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:173 Resp: 487585

Ion	Ratio	Lower	Upper
173	100		
175	50.2	33.0	61.4
254	9.8	5.9	10.9

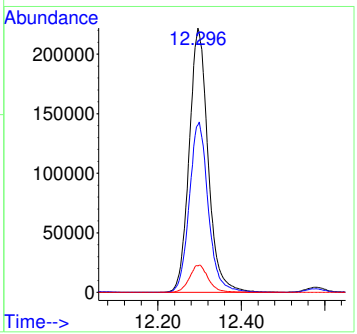


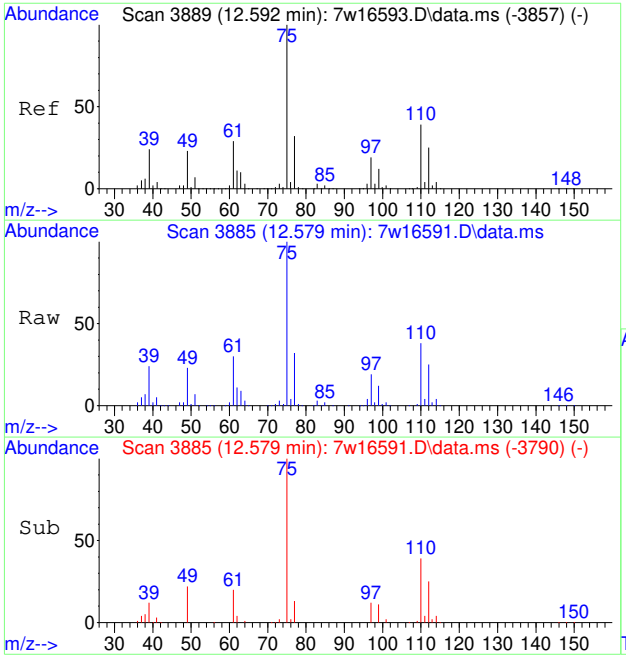


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 20.31 PPBV
RT: 12.296 min Scan# 3797
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 83 Resp: 696701

Ion	Ratio	Lower	Upper
83	100		
85	64.7	44.6	82.8
131	10.4	8.0	14.8

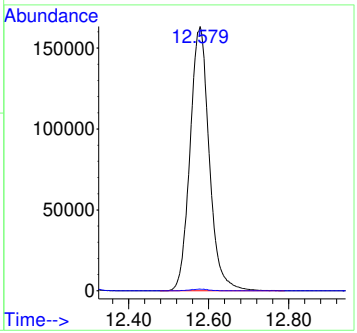


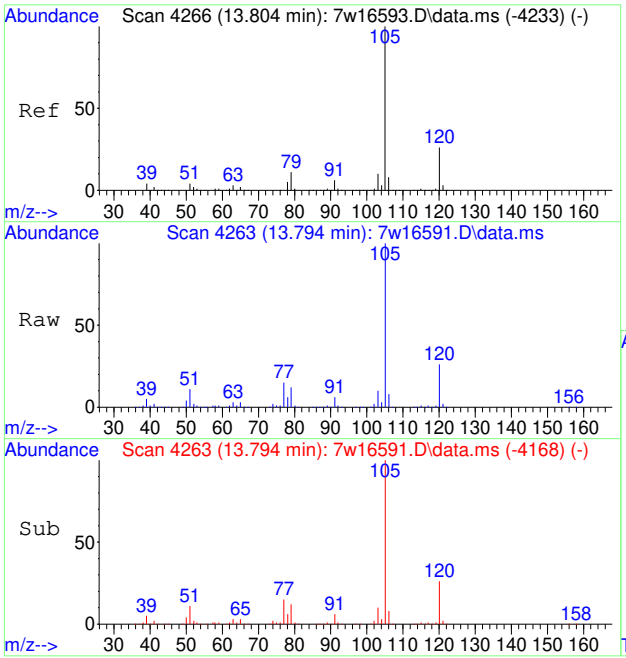


#86
1,2,3-TRICHLOROPROPANE
Concen: 20.17 PPBV
RT: 12.579 min Scan# 3885
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 75 Resp: 544148

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

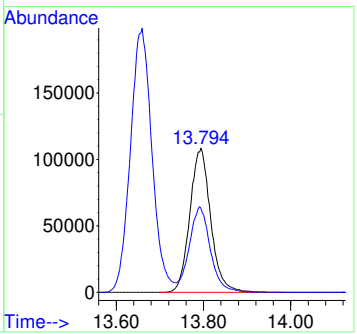


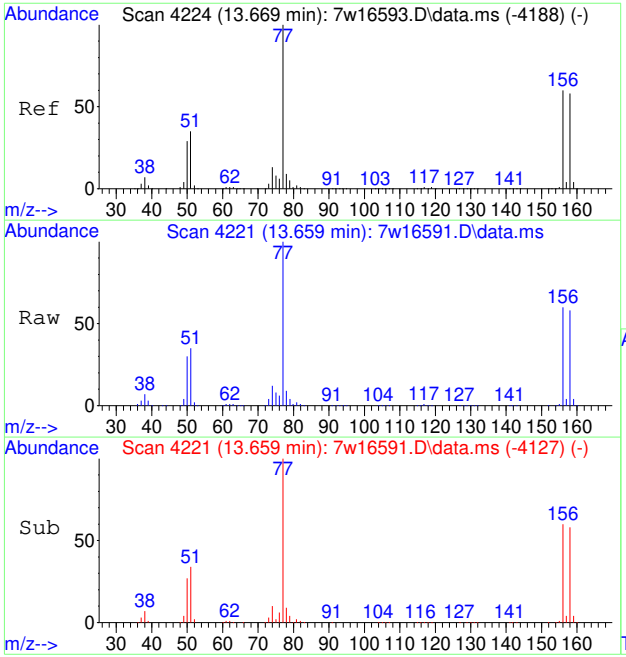


#88
ISOPROPYLBENZENE
Concen: 19.98 PPBV
RT: 13.794 min Scan# 4263
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 360209

Ion	Ratio	Lower	Upper
120	100		
77	59.8	36.0	67.0

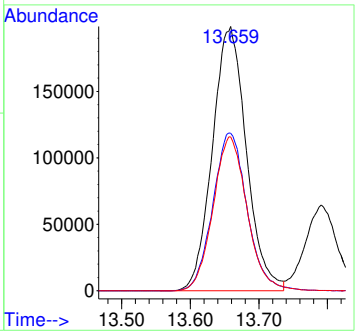


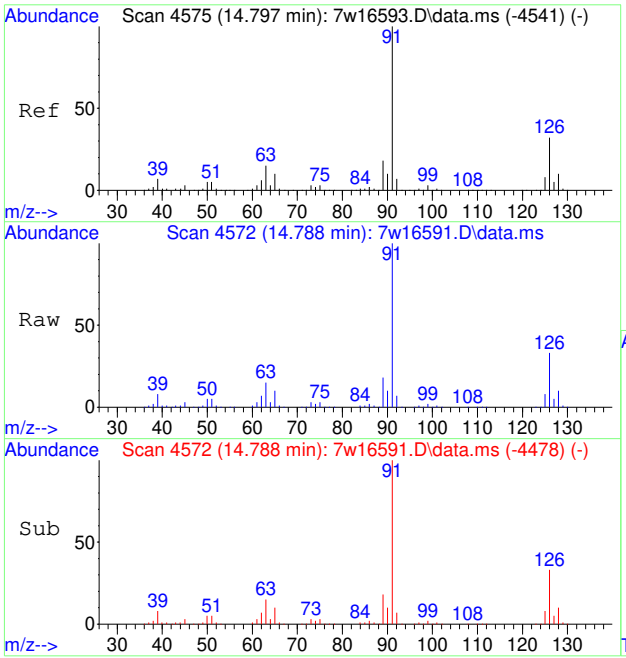


#89
BROMOBENZENE
Concen: 20.06 PPBV
RT: 13.659 min Scan# 4221
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 77 Resp: 684288

Ion	Ratio	Lower	Upper
77	100		
156	60.4	57.9	107.5
158	58.5	55.7	103.5

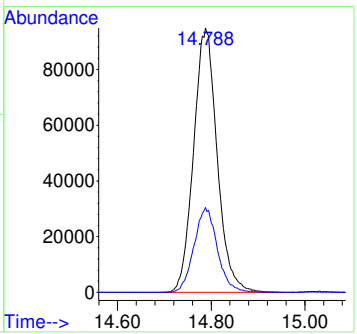


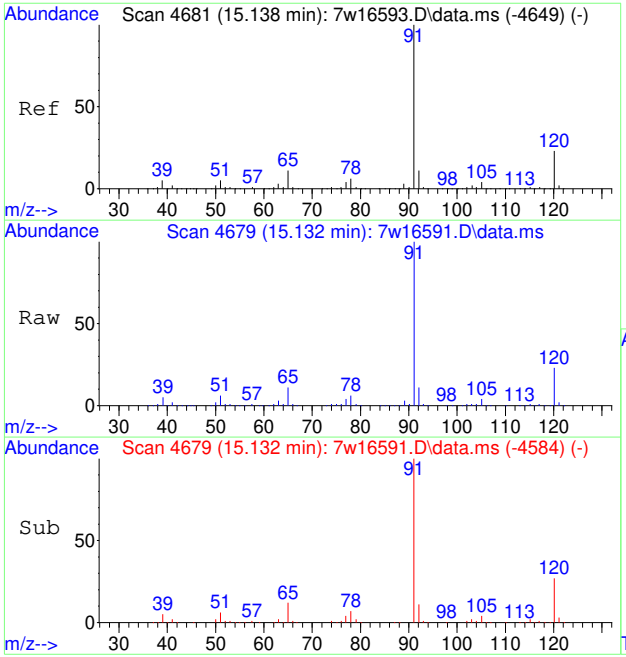


#90
2-CHLOROTOLUENE
Concen: 19.42 PPBV
RT: 14.788 min Scan# 4572
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:126 Resp: 331208

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.7	42.1

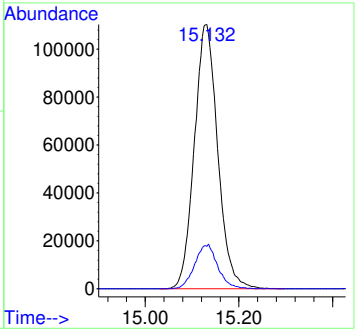


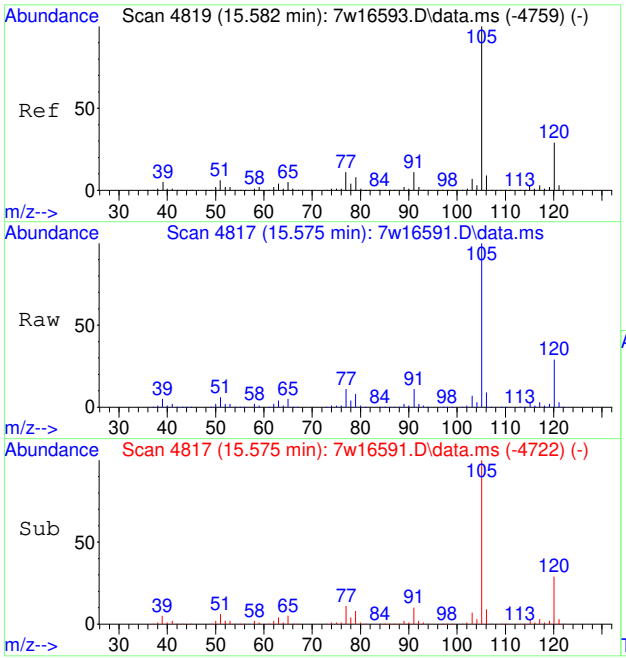


#91
N-PROPYLBENZENE
Concen: 19.58 PPBV
RT: 15.132 min Scan# 4679
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:120 Resp: 382520

Ion	Ratio	Lower	Upper
120	100		
105	16.6	10.6	19.6

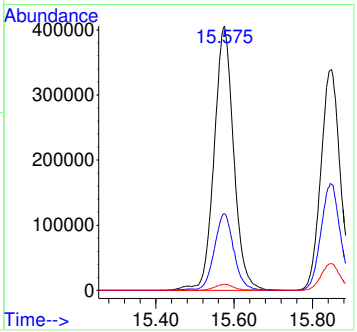


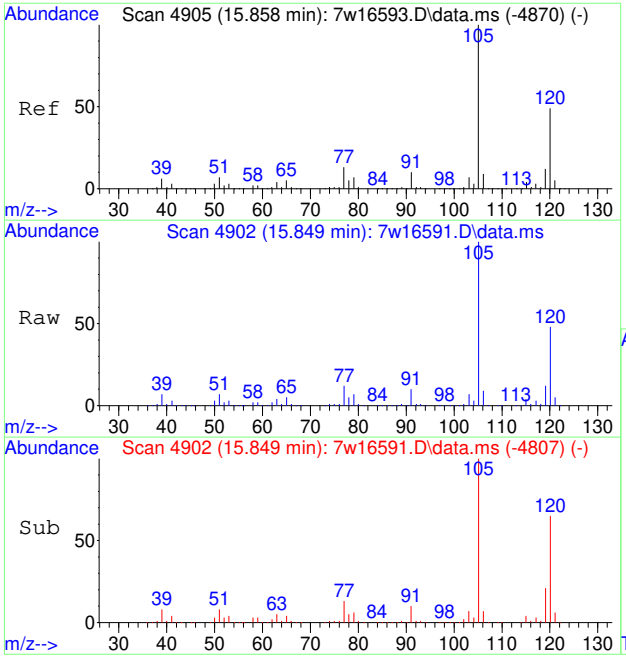


#92
4-ETHYLTOLUENE
Concen: 19.94 PPBV
RT: 15.575 min Scan# 4817
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1412222

Ion	Ratio	Lower	Upper
105	100		
120	29.2	21.8	40.4
119	2.2	1.7	3.1

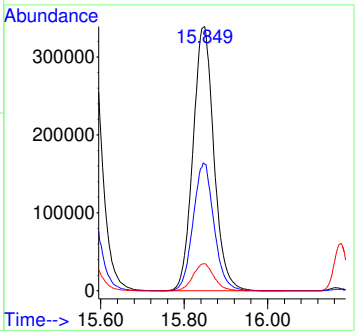


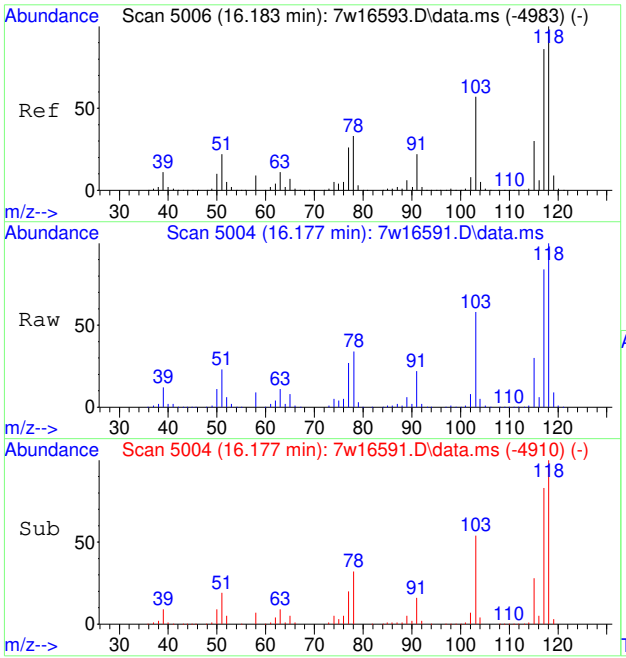


#93
1,3,5-TRIMETHYLBENZENE
Concen: 19.94 PPBV
RT: 15.849 min Scan# 4902
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1177558

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.2	69.2
91	10.4	7.5	13.9

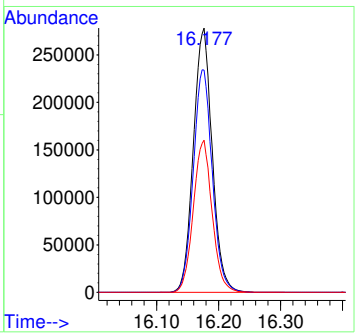


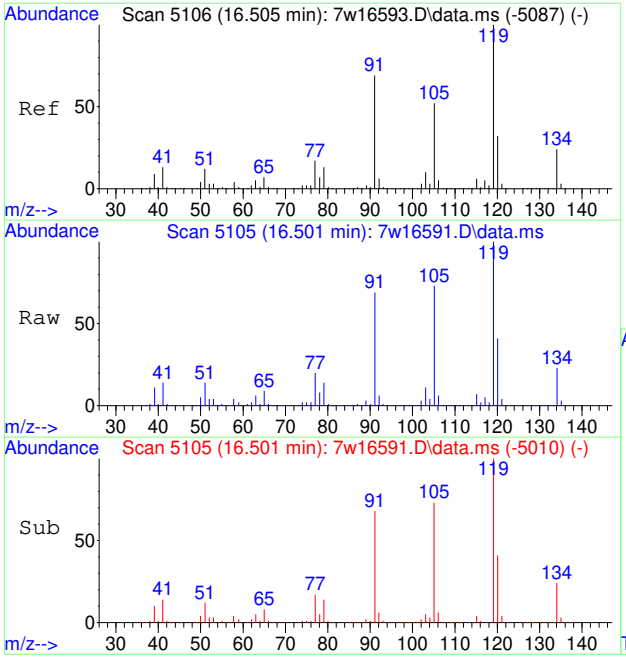


#94
ALPHA-METHYLSTYRENE
Concen: 19.51 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:118 Resp: 587843

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.9	111.3
103	57.5	36.2	67.2

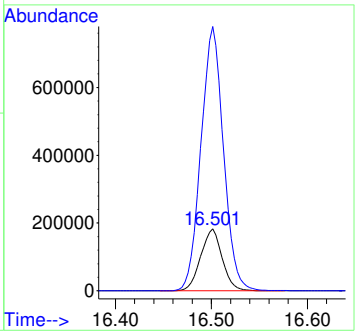


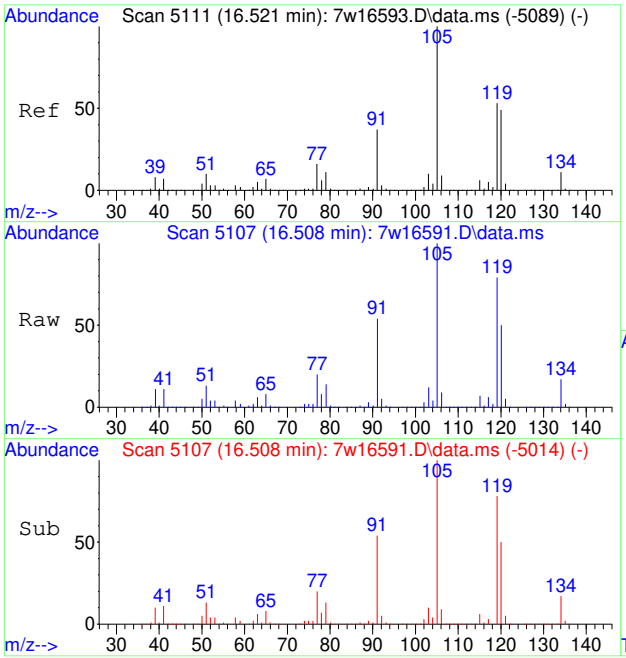


#95
TERT-BUTYLBENZENE
Concen: 19.96 PPBV
RT: 16.501 min Scan# 5105
Delta R.T. 0.007 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 284215

Ion	Ratio	Lower	Upper
134	100		
119	447.3	307.9	571.7

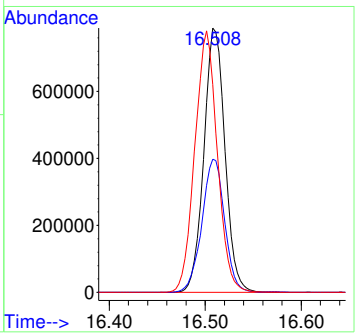


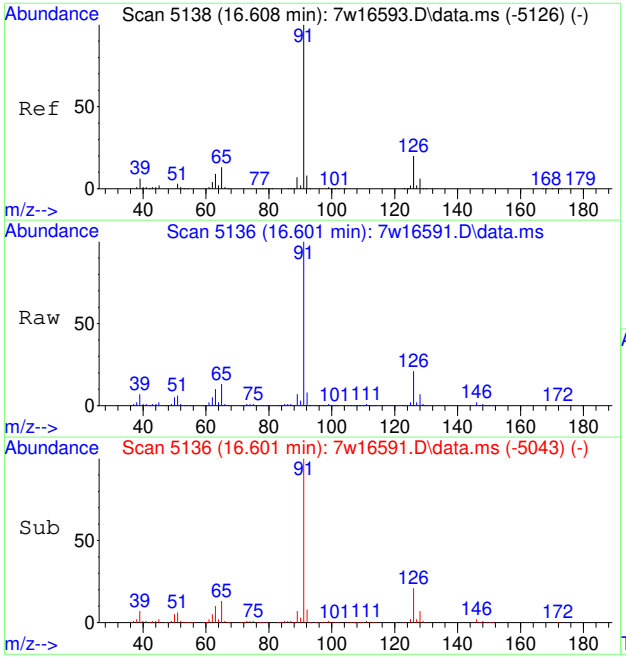


#96
1,2,4-TRIMETHYLBENZENE
Concen: 20.20 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1206100

Ion	Ratio	Lower	Upper
105	100		
120	54.2	40.9	75.9
119	105.4	78.0	144.8

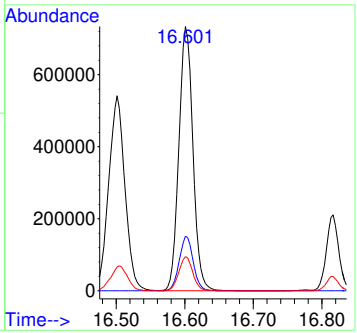


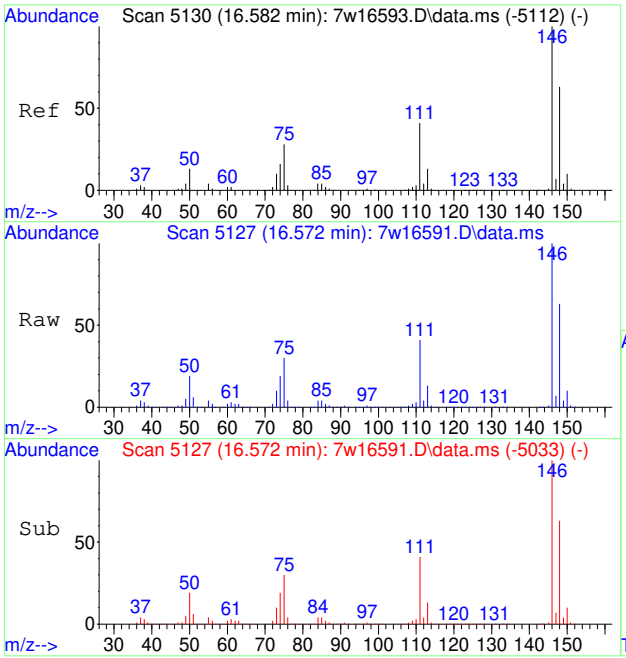


#97
BENZYL CHLORIDE
Concen: 20.31 PPBV
RT: 16.601 min Scan# 5136
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion: 91 Resp: 1043995

Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	32.0
65	12.9	7.3	13.7

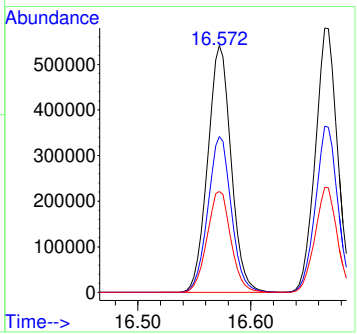


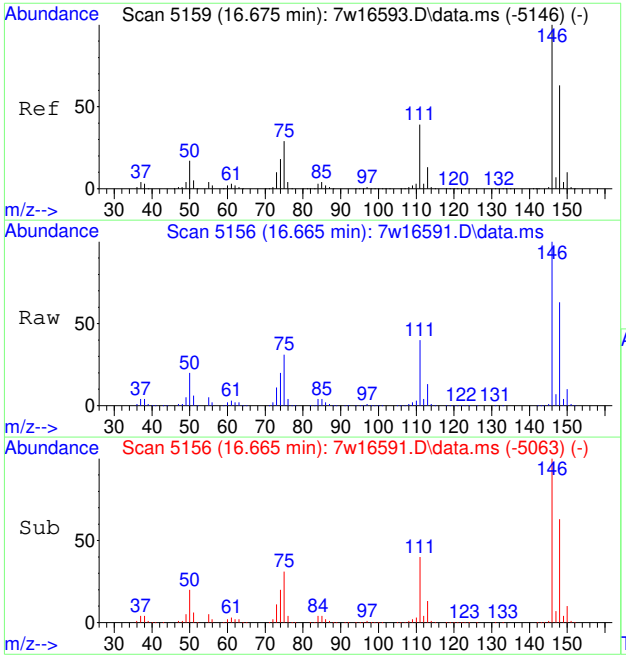


#98
M-DICHLOROBENZENE
Concen: 19.50 PPBV
RT: 16.572 min Scan# 5127
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 777553

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	41.5	25.4	47.2

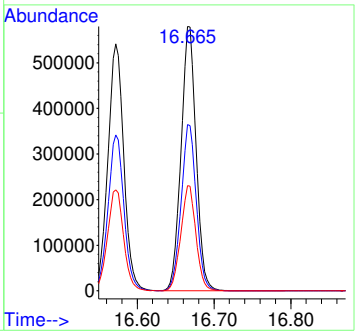


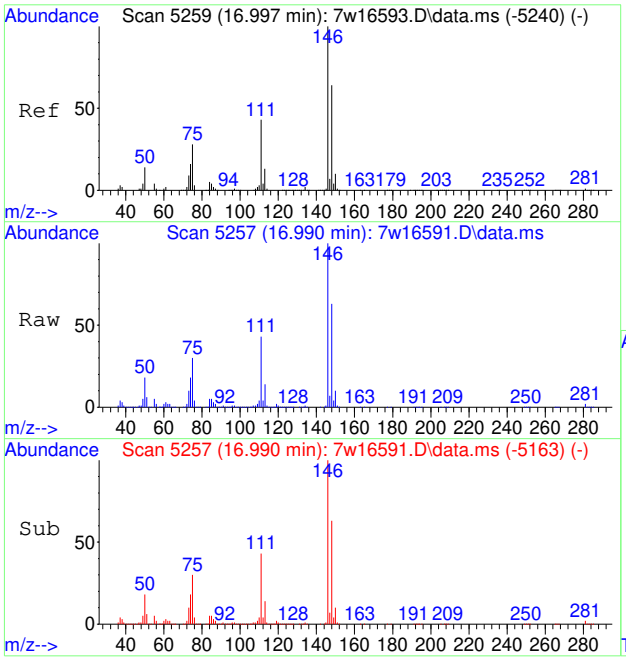


#99
P-DICHLOROBENZENE
Concen: 20.08 PPBV
RT: 16.665 min Scan# 5156
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 788870

Ion	Ratio	Lower	Upper
146	100		
148	63.2	44.7	82.9
111	39.8	24.8	46.1

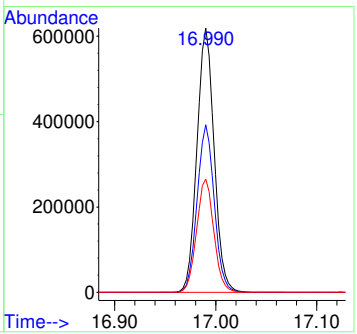


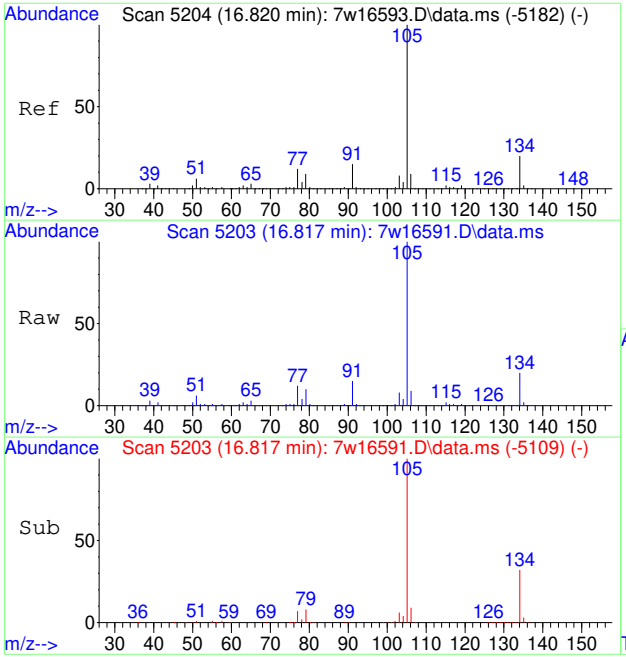


#100
O-DICHLOROBENZENE
Concen: 19.81 PPBV
RT: 16.990 min Scan# 5257
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:146 Resp: 731265

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	43.1	26.9	50.1

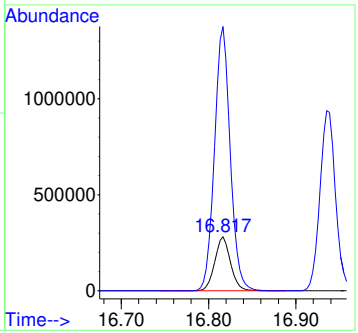


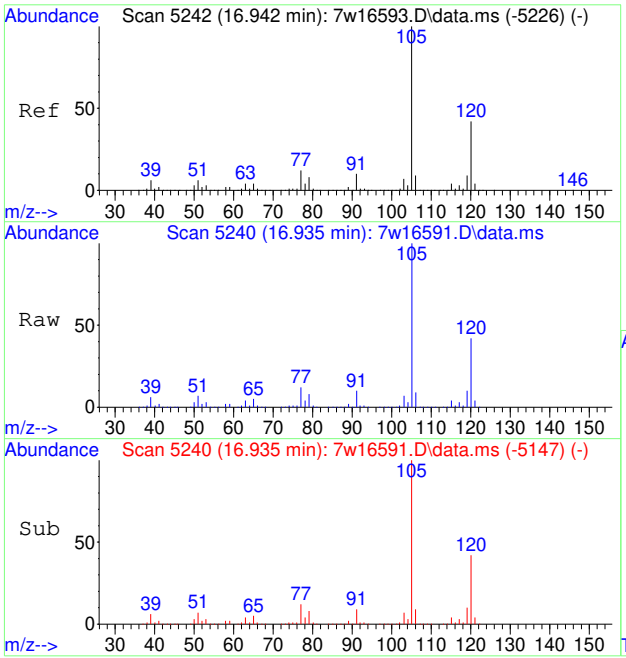


#101
SEC-BUTYLBENZENE
Concen: 20.47 PPBV
RT: 16.817 min Scan# 5203
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 351357

Ion	Ratio	Lower	Upper
134	100		
105	491.0	314.4	584.0

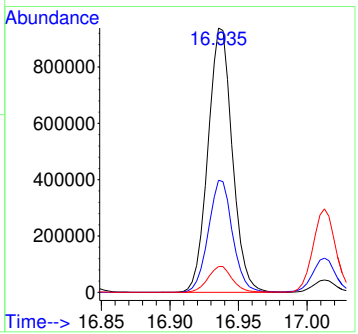


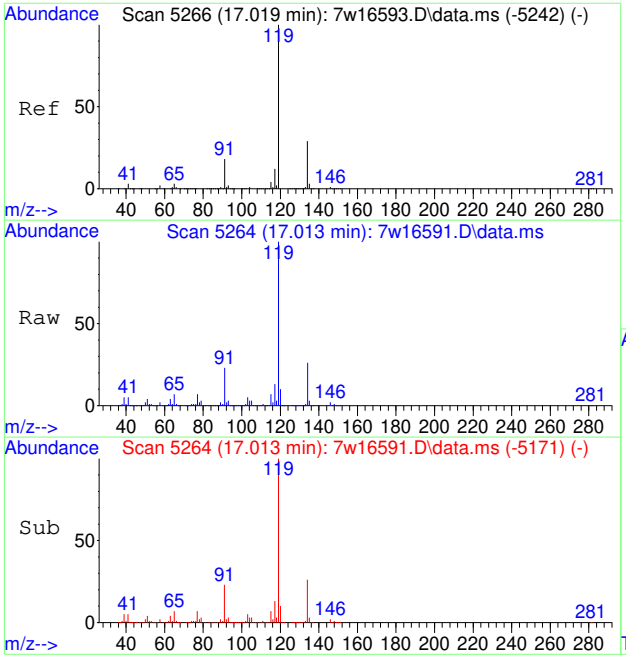


#102
1,2,3-TRIMETHYLBENZENE
Concen: 19.79 PPBV
RT: 16.935 min Scan# 5240
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:105 Resp: 1159850

Ion	Ratio	Lower	Upper
105	100		
120	42.2	31.9	59.2
91	9.9	7.3	13.5

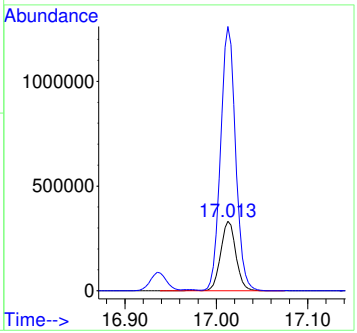


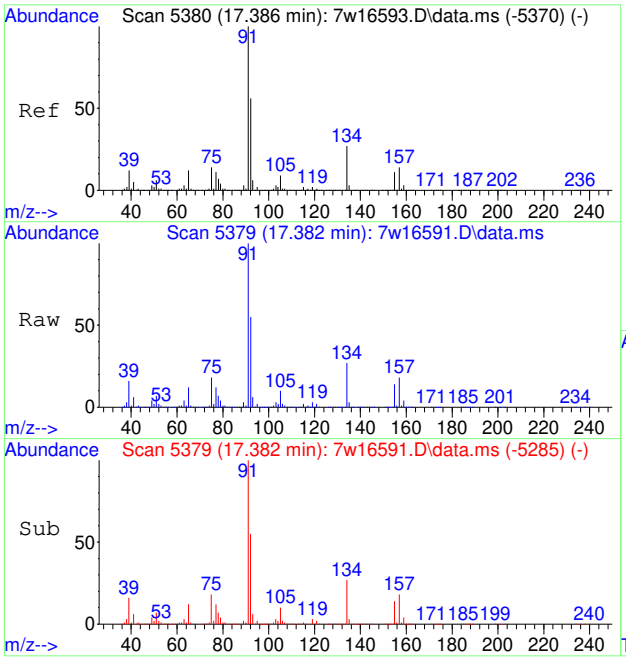


#103
P-ISOPROPYLTOLUENE
Concen: 19.97 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 385467

Ion	Ratio	Lower	Upper
134	100		
119	375.6	253.7	471.3

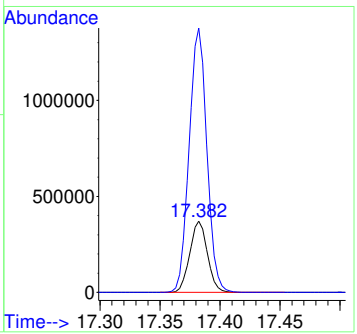


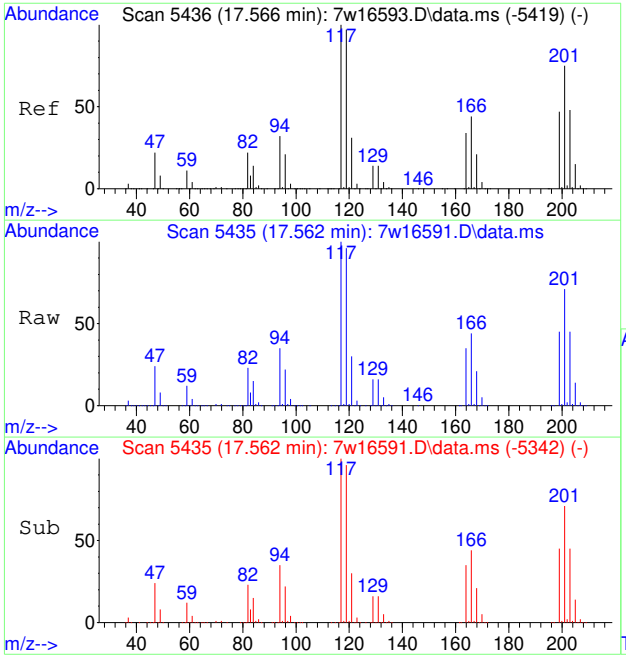


#104
N-BUTYLBENZENE
Concen: 20.40 PPBV
RT: 17.382 min Scan# 5379
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:134 Resp: 378596

Ion	Ratio	Lower	Upper
134	100		
91	373.4	231.1	429.1

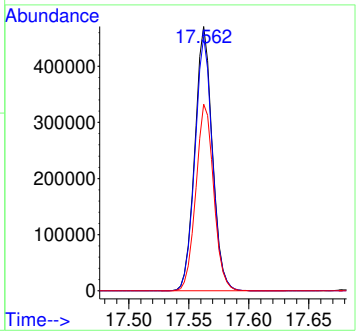


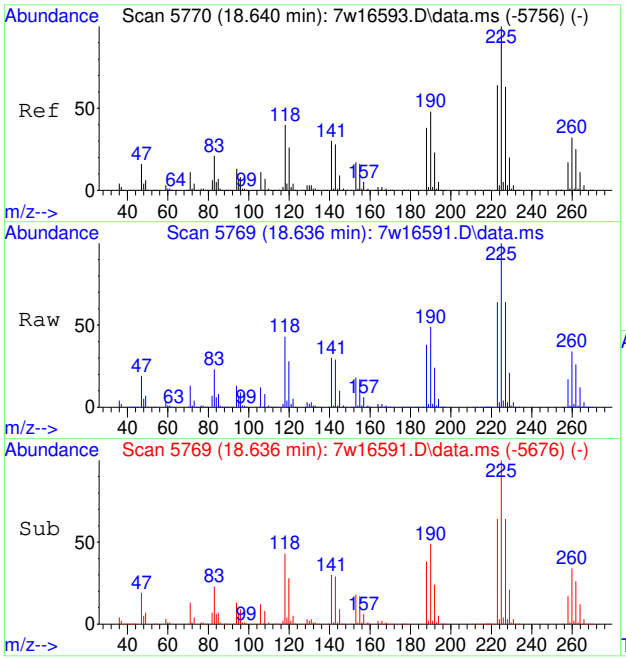


#105
HEXACHLOROETHANE
Concen: 20.73 PPBV
RT: 17.562 min Scan# 5435
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:117 Resp: 477608

Ion	Ratio	Lower	Upper
117	100		
119	96.1	68.3	126.9
201	71.6	45.9	85.3

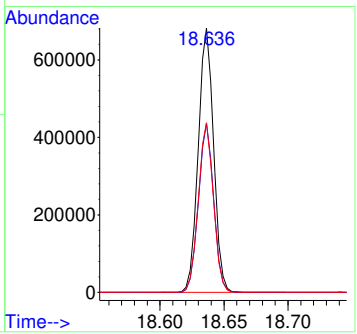


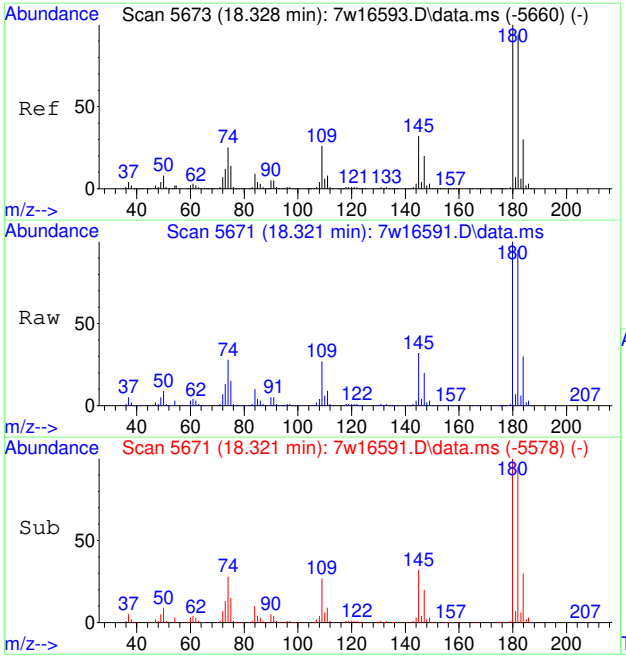


#106
HEXACHLOROBUTADIENE
Concen: 22.43 PPBV
RT: 18.636 min Scan# 5769
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:225 Resp: 568005

Ion	Ratio	Lower	Upper
225	100		
227	63.2	44.4	82.5
223	63.2	44.7	83.1

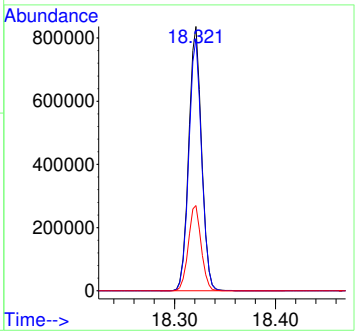


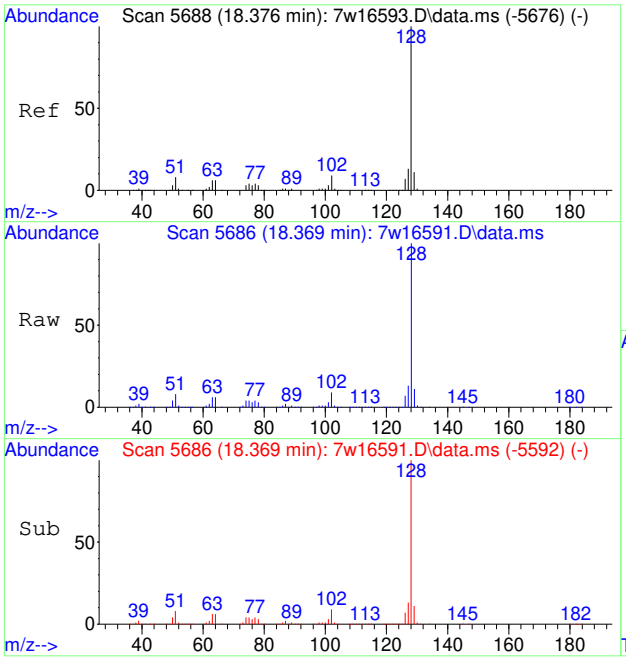


#107
1,2,4-TRICHLOROBENZENE
Concen: 22.61 PPBV
RT: 18.321 min Scan# 5671
Delta R.T. 0.000 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:180 Resp: 737709

Ion	Ratio	Lower	Upper
180	100		
182	95.2	66.8	124.0
145	32.4	23.1	42.9

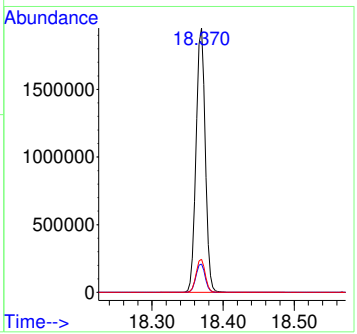


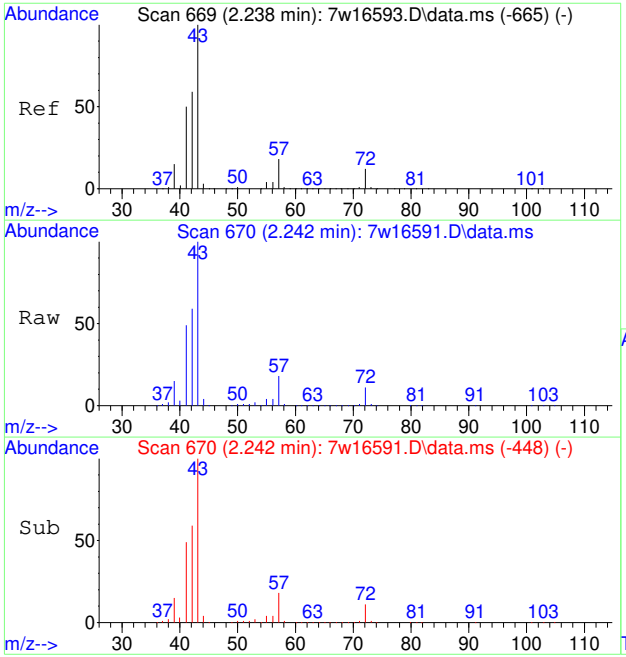


#108
NAPHTHALENE
Concen: 22.94 PPBV
RT: 18.369 min Scan# 5686
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:128 Resp: 1742340

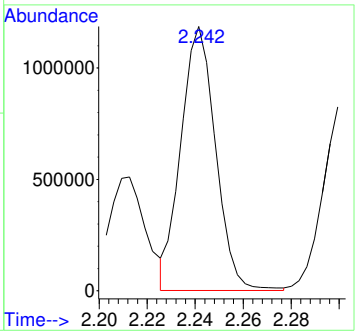
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.3	13.7
127	12.5	8.8	16.4





#110
TVHC as equiv Pentane
Concen: 19.68 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.003 min
Lab File: 7w16591.D
Acq: 7 Aug 2025 1:47 pm

Tgt Ion:TIC Resp: 1188767



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16591.D
Injection Time: 08/07/25 13:47

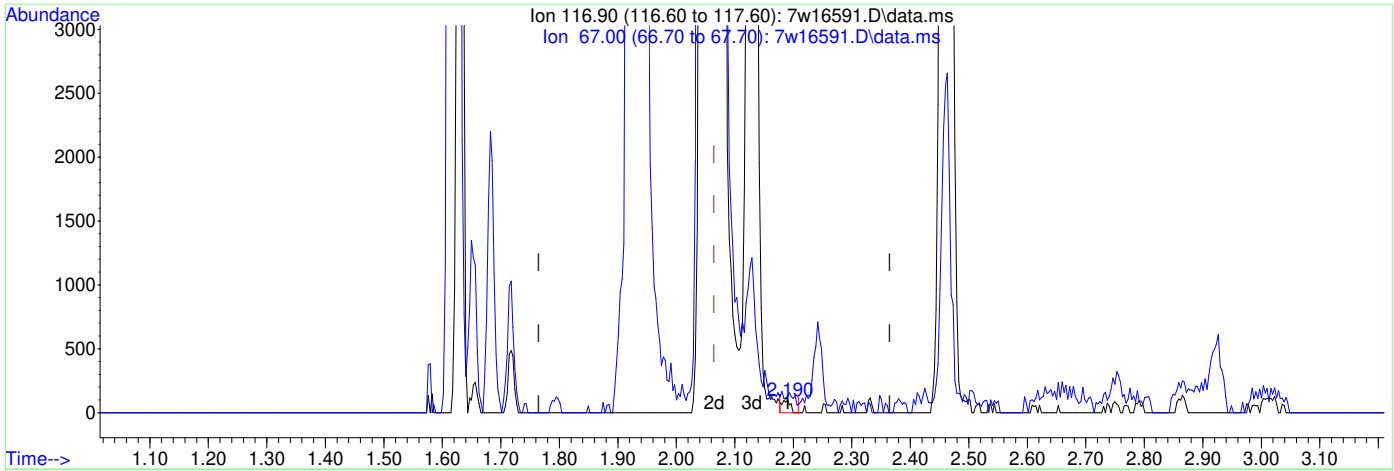
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

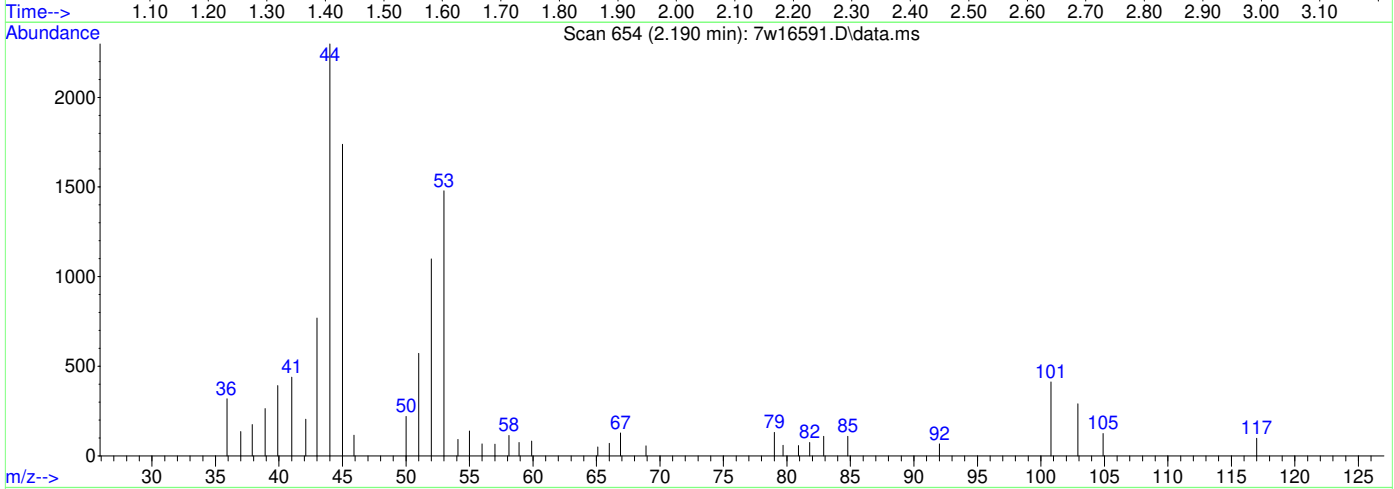
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Freon 123A	354-23-4		2.06	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.190min (+0.125) 0.01PPBV

response 91

Ion	Exp%	Act%
116.90	100	100
67.00	112.60	87.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:16 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
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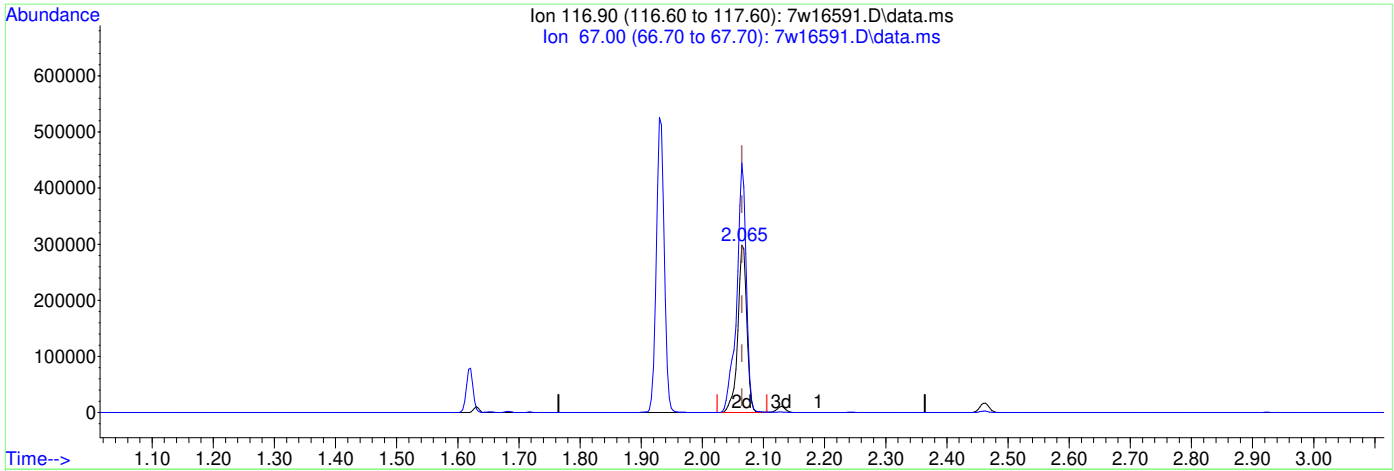
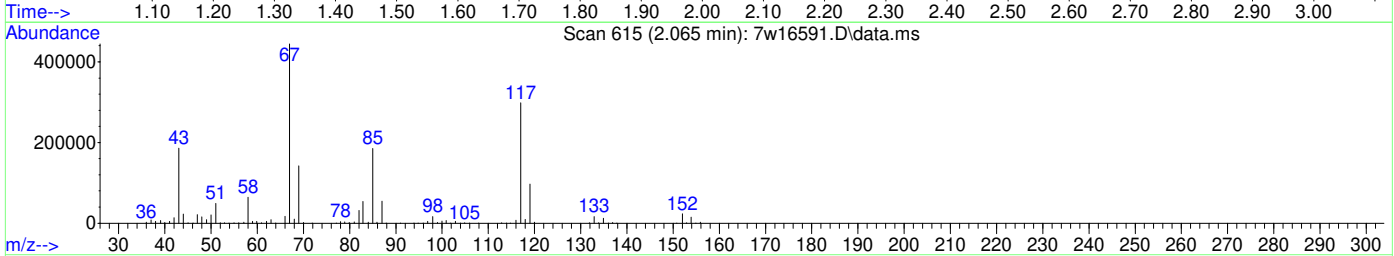
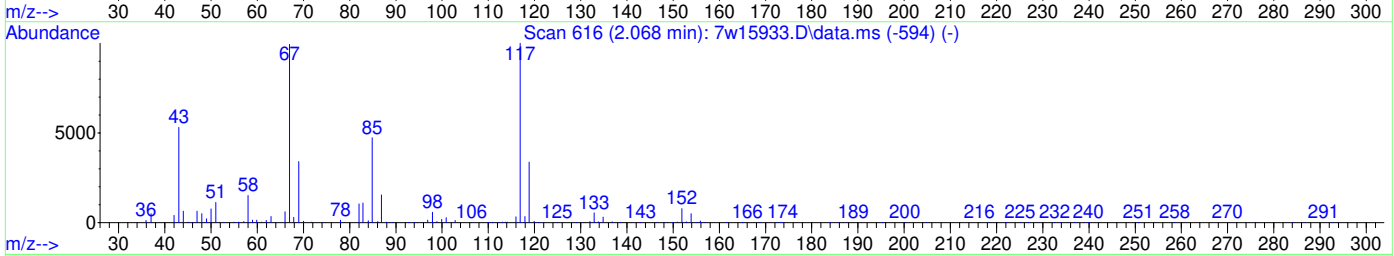






TIC: 7w16591.D\data.ms

(20) FREON 123A (T)

2.065min (+0.000) 19.66PPBV m

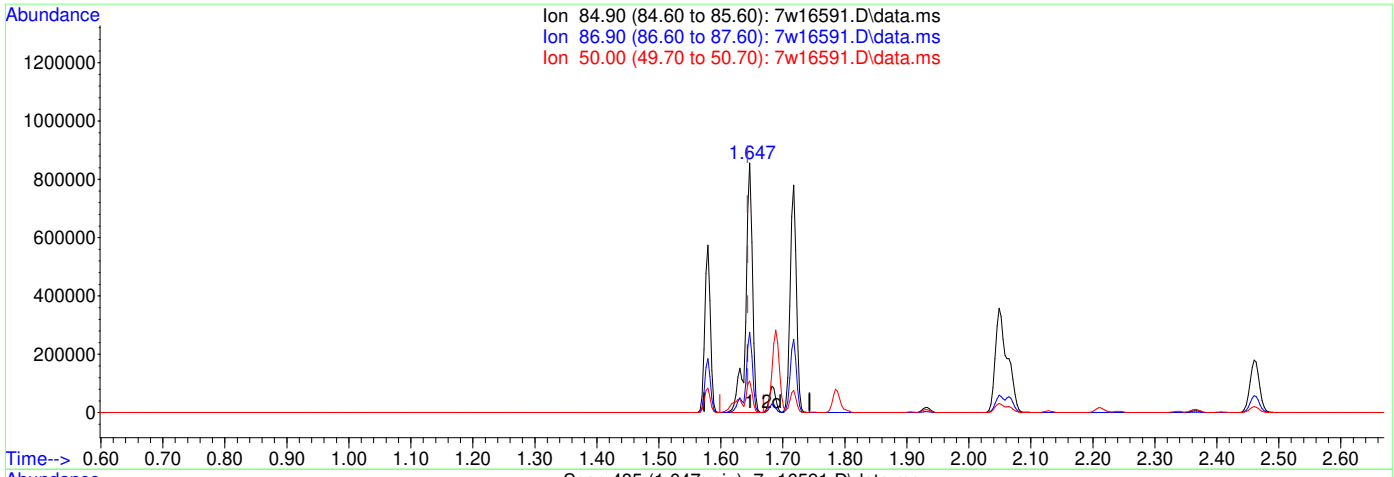
response 305527

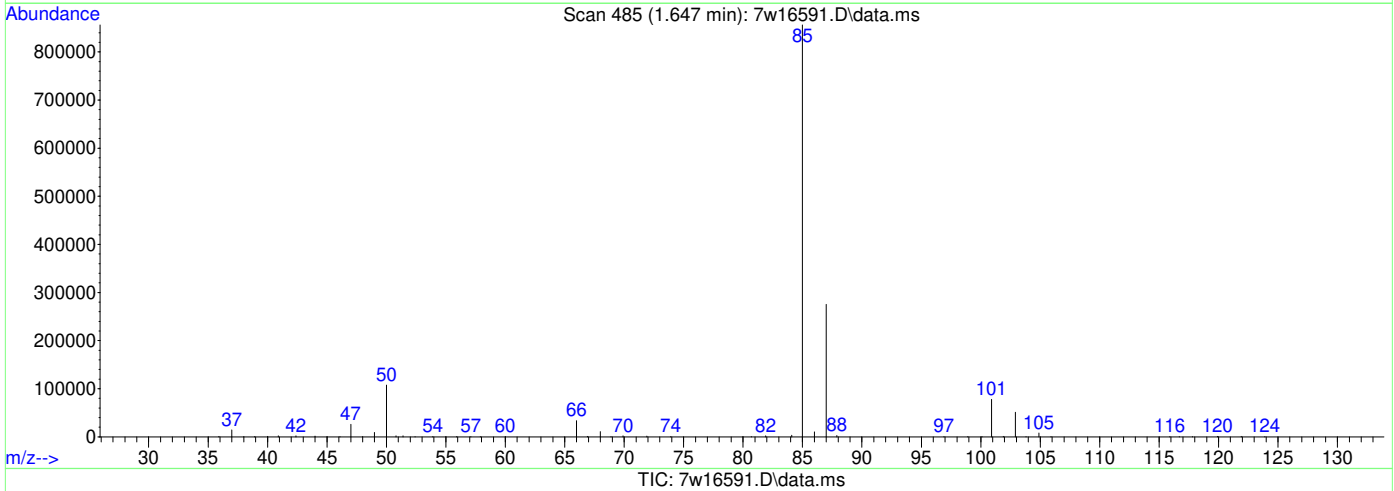
Ion	Exp%	Act%
116.90	100	100
67.00	112.60	0.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 19.70PPBV

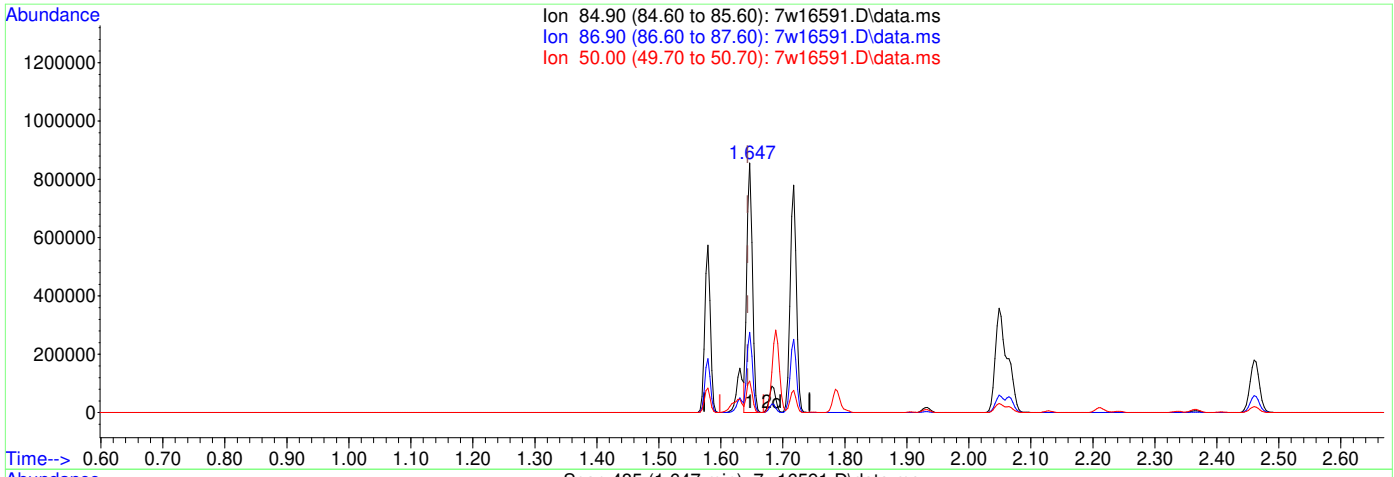
response 644952

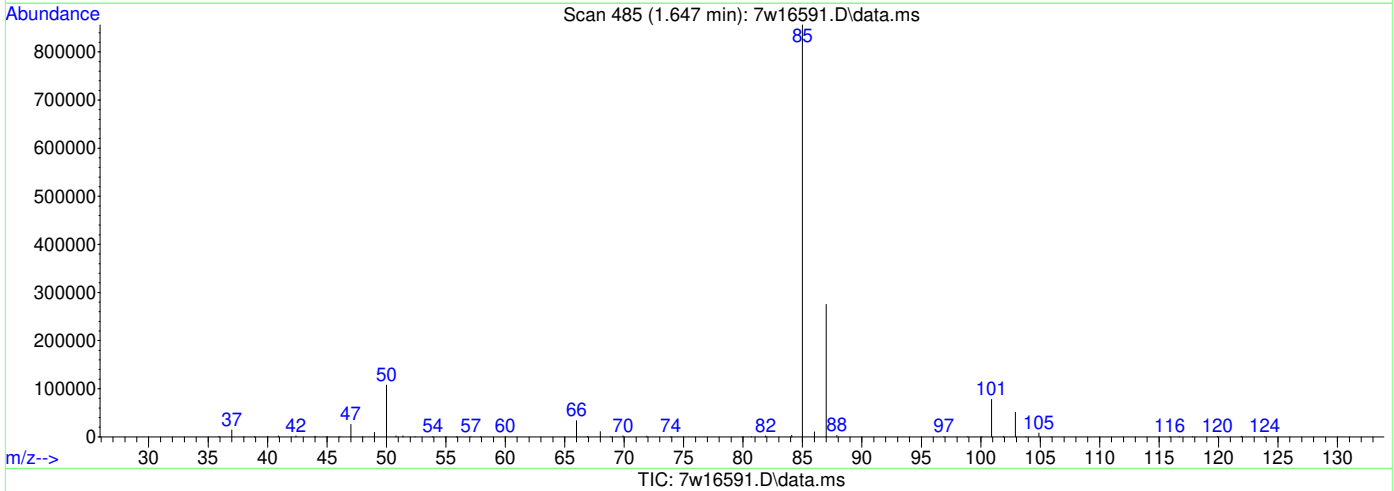
Ion	Exp%	Act%
84.90	100	100
86.90	33.00	32.48
50.00	17.30	19.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16591.D
Acq On : 7 Aug 2025 1:47 pm
Operator : benk
Sample : ic577-20
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:17:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:15:28 2025
Response via : Initial Calibration





TIC: 7w16591.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.003) 16.21PPBV m

response 530689

Ion	Exp%	Act%
84.90	100	100
86.90	33.00	39.48
50.00	17.30	23.23#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	109851	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.451	114	546669	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	501897	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	109805	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.318	95	410954	10.23	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	264206	37.90	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	119359	39.64	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.627	116	590023	41.37	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	1043482m	33.07	PPBV		
7) PROPYLENE	1.627	41	337148	36.84	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	920580	38.25	PPBV		99
9) FREON 114	1.714	85	1067029	38.99	PPBV		99
10) CHLOROMETHANE	1.685	52	141787	36.20	PPBV		95
11) VINYL CHLORIDE	1.746	62	502517	36.90	PPBV		99
12) 1,3-BUTADIENE	1.785	54	386481	35.40	PPBV		98
13) N-BUTANE	1.798	43	676218	36.22	PPBV		99
14) BROMOMETHANE	1.859	94	380493	35.73	PPBV		99
15) CHLOROETHANE	1.904	64	257541	34.46	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	910295	35.30	PPBV		100
17) ACETONITRILE	1.994	41	384504	28.62	PPBV		100
18) ACROLEIN	2.033	56	220730	35.64	PPBV		99
19) FREON 123	2.049	83	996862	38.68	PPBV		100
20) FREON 123A	2.065	117	586604	38.26	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1049426	35.69	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	888452	34.78	PPBV		100
23) ACETONE	2.071	58	248365	35.92	PPBV		96
24) PENTANE	2.238	42	472130	34.15	PPBV		100
25) IODOMETHANE	2.299	142	1038259	38.79	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	419658	37.54	PPBV		98
27) CARBON DISULFIDE	2.463	76	1201974	37.99	PPBV		97
28) ETHANOL	1.930	45	213512	31.01	PPBV		100
29) BROMOETHENE	2.004	106	389718	36.91	PPBV		100
30) ACRYLONITRILE	2.209	52	360634	37.39	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	378529	33.80	PPBV		95
32) 3-CHLOROPROPENE	2.406	76	219238	36.95	PPBV		95
33) FREON 113	2.460	151	643045	38.50	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	441405	35.87	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.335	59	985604	31.02	PPBV		100
36) METHYL TERTIARY BUTYL ...	2.791	73	1301474	37.36	PPBV		100
37) TETRAHYDROFURAN	3.463	72	204769	36.97	PPBV		98
38) HEXANE	3.242	57	870000	36.93	PPBV		97
39) VINYL ACETATE	2.830	86	130550	40.25	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	876273	37.13	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	232500	36.08	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	476500	37.74	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	251965	37.93	PPBV		92
44) ETHYL ACETATE	3.251	61	179704	40.87	PPBV		88
45) METHYL ACRYLATE	3.238	55	1081547	38.25	PPBV	#	100
46) CHLOROFORM	3.264	83	920953	37.55	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	1014851	38.86	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.824	97	979950	38.31	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1037151	39.82	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	713561	37.86	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.129	78	1384237	36.79	PPBV		99
53)	CYCLOHEXANE	4.335	84	620038	38.40	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.586	71	325381	40.82	PPBV		100
55)	TRICHLOROETHENE	5.016	95	627429	36.24	PPBV		100
56)	1,2-DICHLOROPROPANE	4.785	63	583236	38.36	PPBV		100
57)	DIBROMOMETHANE	4.746	174	542289	36.49	PPBV		99
58)	ETHYL ACRYLATE	4.904	55	1354109	40.04	PPBV		100
59)	BROMODICHLOROMETHANE	4.965	83	1056193	38.42	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	2697169	35.45	PPBV		100
61)	1,4-DIOXANE	5.023	88	307098m	38.33	PPBV		
62)	HEPTANE	5.422	43	919337	36.76	PPBV		99
63)	METHYL METHACRYLATE	5.319	69	535566	38.93	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.042	58	535813	35.65	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	931150	41.03	PPBV		98
66)	TOLUENE	7.135	91	1737506	39.79	PPBV		100
67)	1,3-DICHLOROPROPANE	7.196	76	888887	40.85	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	837419	41.75	PPBV		98
69)	1,1,2-TRICHLOROETHANE	6.769	83	506821	41.21	PPBV		99
70)	2-HEXANONE	7.698	58	721391	33.68	PPBV		98
71)	ETHYL METHACRYLATE	7.836	69	919855	40.41	PPBV		97
72)	TETRACHLOROETHENE	8.849	164	647021	40.75	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.666	129	1078202	44.36	PPBV		100
74)	1,2-DIBROMOETHANE	8.007	107	940297	41.96	PPBV		100
75)	OCTANE	9.000	43	1299991	39.19	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.064	131	780177	43.93	PPBV		100
78)	CHLOROBENZENE	10.052	112	1423127	41.32	PPBV		99
79)	ETHYLBENZENE	10.929	91	2363041	41.92	PPBV		100
80)	M,P-XYLENE	11.357	91	3630117	78.82	PPBV		99
81)	O-XYLENE	12.289	91	1842699	41.40	PPBV		98
82)	STYRENE	12.077	104	1452853	44.73	PPBV		99
83)	NONANE	13.412	43	1380586	39.45	PPBV		99
84)	BROMOFORM	11.167	173	961757	47.95	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	12.306	83	1339122	42.27	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.585	75	1047163	42.19	PPBV		100
88)	ISOPROPYLBENZENE	13.797	120	695388	41.27	PPBV		99
89)	BROMOBENZENE	13.666	77	1318537	40.55	PPBV		100
90)	2-CHLOROTOLUENE	14.794	126	639043	41.17	PPBV		100
91)	N-PROPYLBENZENE	15.135	120	740280	42.04	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	2747294	42.04	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.852	105	2286498	41.87	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.177	118	1155488	43.69	PPBV		100
95)	TERT-BUTYLBENZENE	16.505	134	554595	41.12	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.514	105	2336862	43.35	PPBV		100
97)	BENZYL CHLORIDE	16.608	91	2115310	52.85	PPBV		99
98)	M-DICHLOROBENZENE	16.575	146	1509487	40.35	PPBV		99
99)	P-DICHLOROBENZENE	16.672	146	1527061	41.45	PPBV		100
100)	O-DICHLOROBENZENE	16.993	146	1428015	41.29	PPBV		99
101)	SEC-BUTYLBENZENE	16.820	134	675130	42.40	PPBV		100
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2270987	41.87	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.016	134	742541	42.05	PPBV		100
104)	N-BUTYLBENZENE	17.386	134	743410	45.09	PPBV		99
105)	HEXACHLOROETHANE	17.566	117	951757	47.76	PPBV		99
106)	HEXACHLOROBUTADIENE	18.640	225	1162376	48.46	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.325	180	1534367	56.96	PPBV		99
108)	NAPHTHALENE	18.373	128	3606459	60.99	PPBV		99
110)	TVHC as equiv Pentane	2.238	TIC	2205824	32.90	PPBV		100

Quantitation Report (QT Reviewed)

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Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

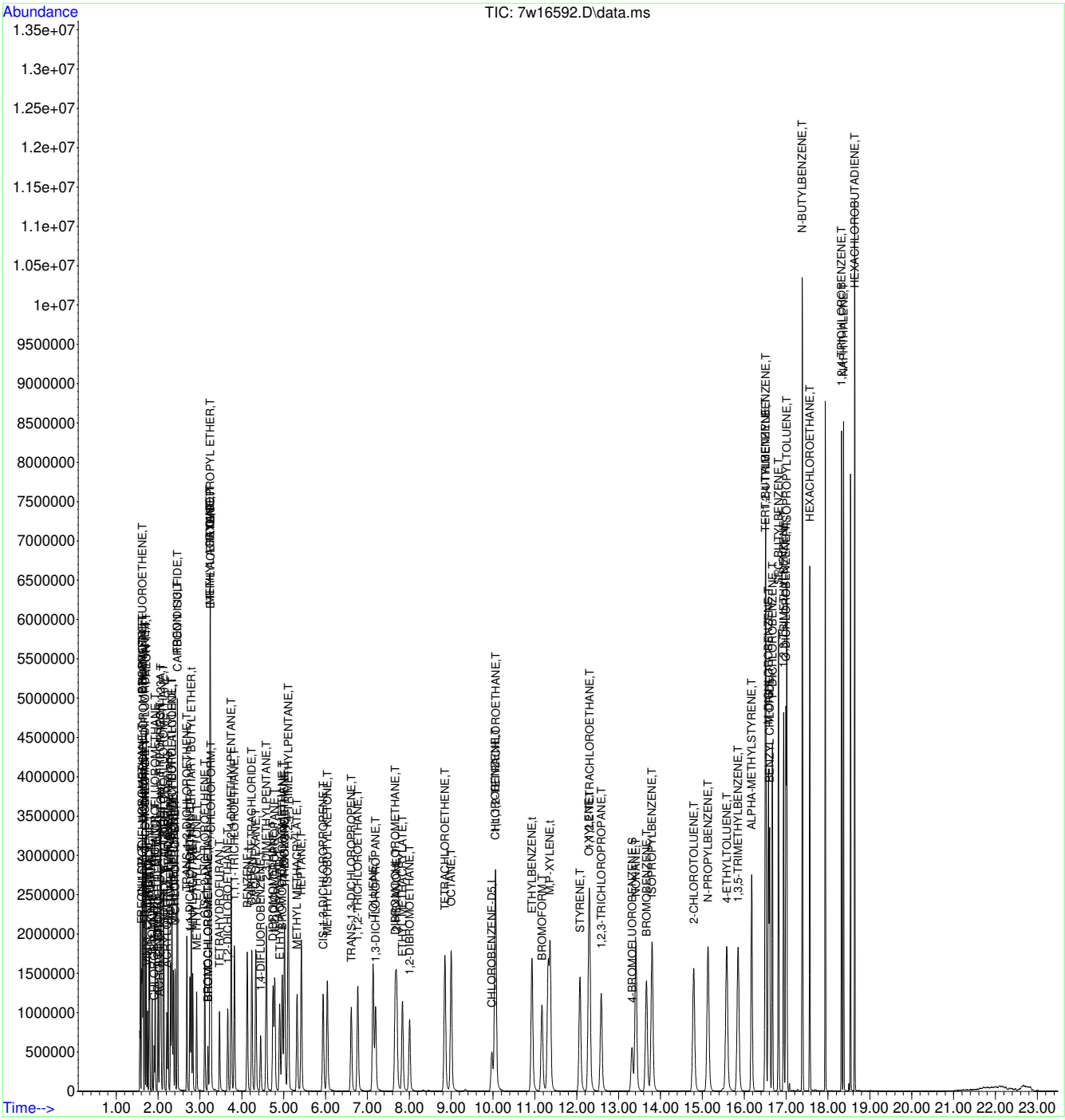
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

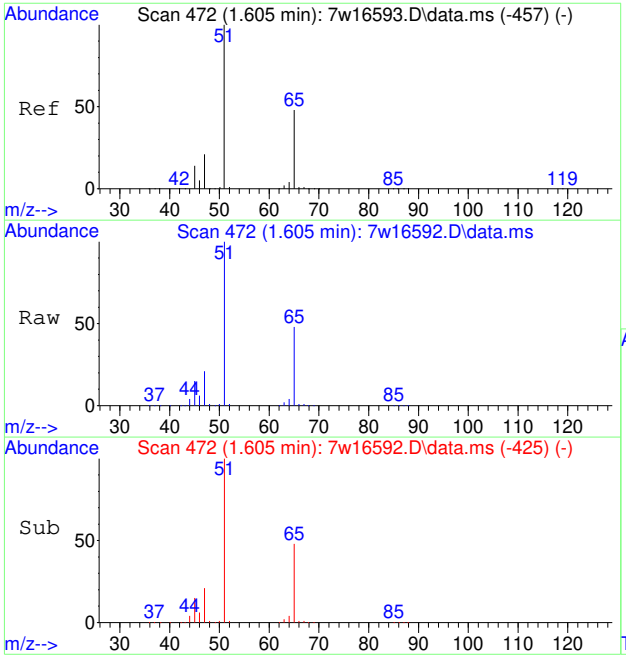
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 15:06:18 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration

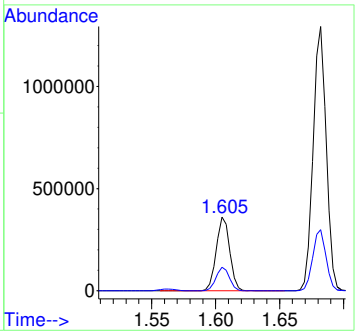


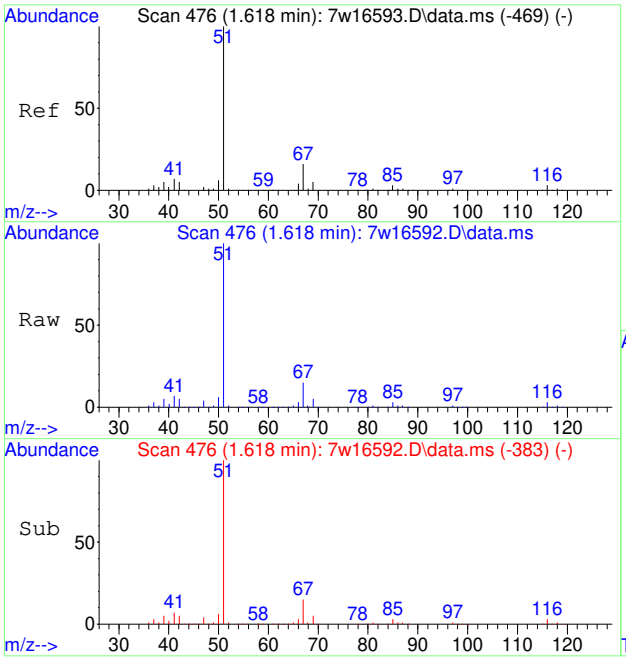


#3
FREON 152A
Concen: 37.90 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 264206

Ion	Ratio	Lower	Upper
65	100		
45	31.8	23.0	42.8

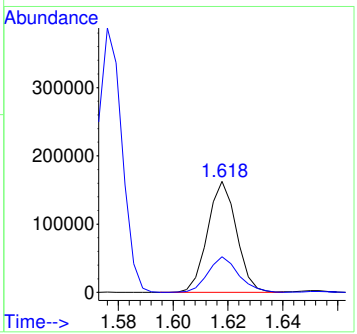


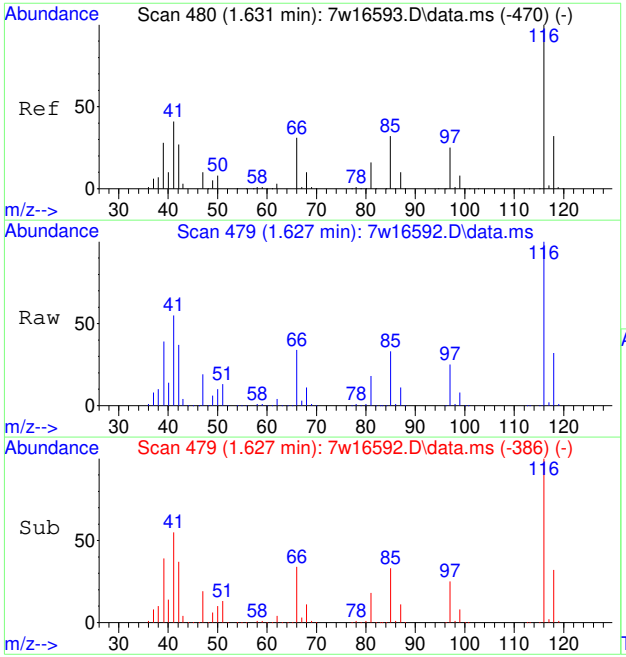


#4
CHLORODIFLUOROMETHANE
Concen: 39.64 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 119359

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

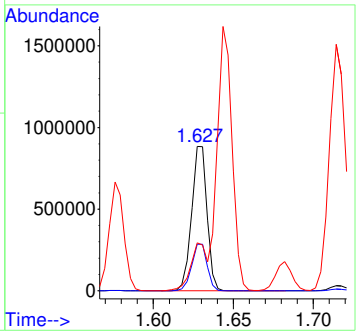


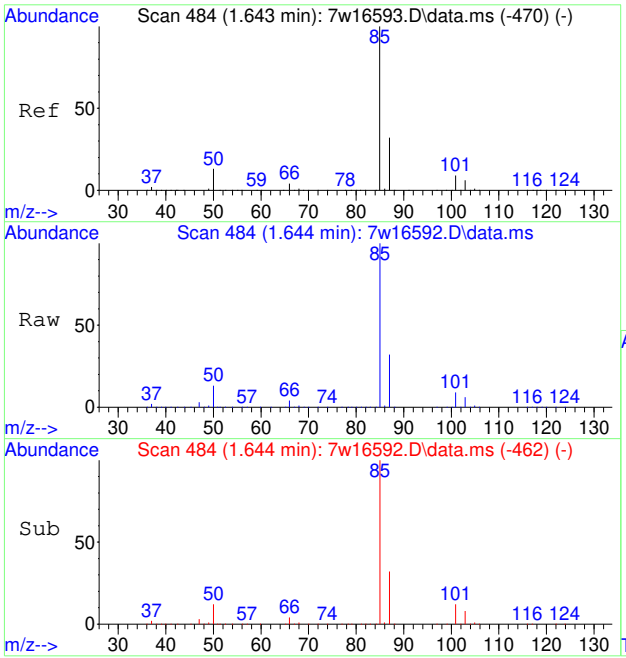


#5
CHLOROTRIFLUOROETHENE
Concen: 41.37 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:116 Resp: 590023

Ion	Ratio	Lower	Upper
116	100		
118	32.3	22.6	42.0
85	211.8	152.4	283.0

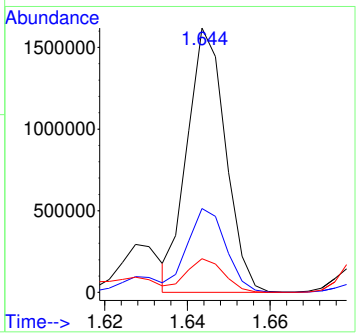


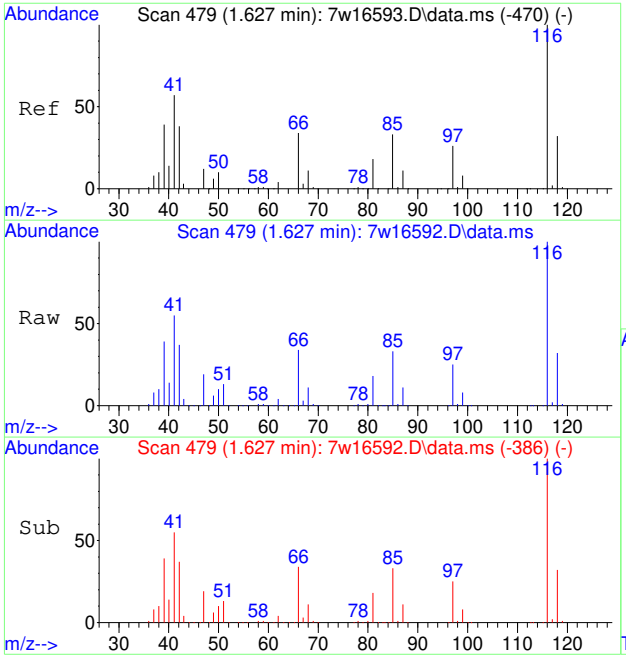


#6
DICHLORODIFLUOROMETHANE
Concen: 33.07 PPBV m
RT: 1.644 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1043482

Ion	Ratio	Lower	Upper
85	100		
87	38.5	23.0	42.6
50	22.4	13.5	25.1

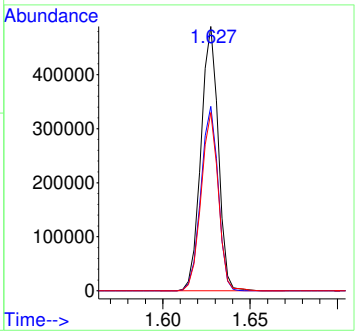


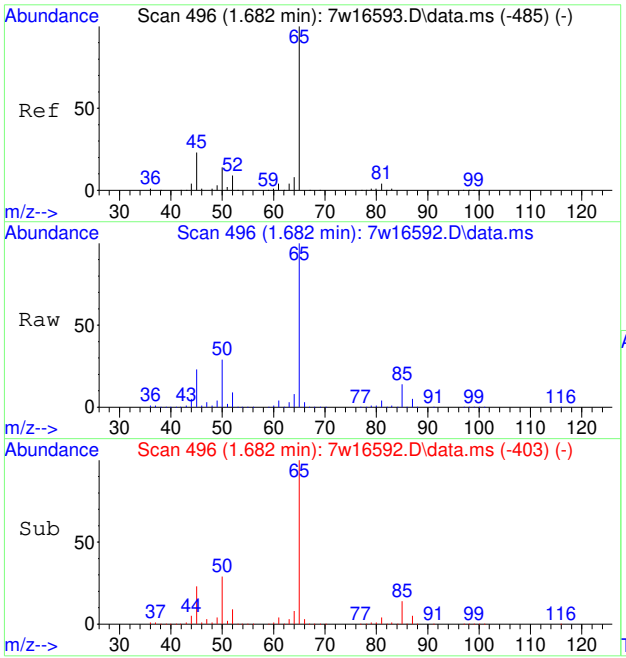


#7
PROPYLENE
Concen: 36.84 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 337148

Ion	Ratio	Lower	Upper
41	100		
39	69.6	50.5	93.7
42	66.9	47.0	87.4

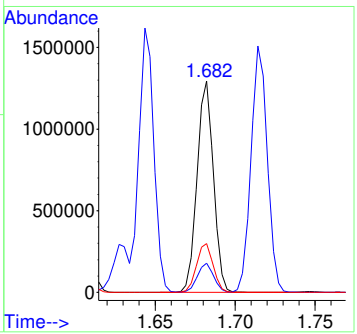


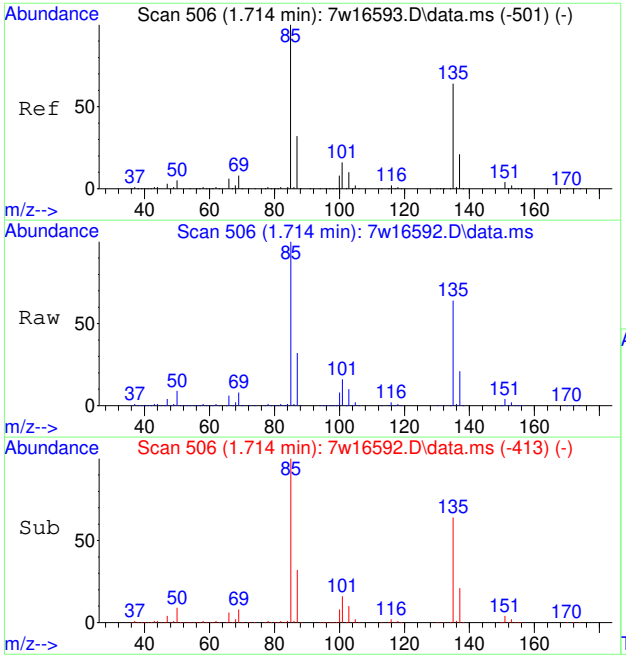


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 38.25 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 65 Resp: 920580

Ion	Ratio	Lower	Upper
65	100		
85	13.7	9.4	17.4
45	23.4	16.9	31.3

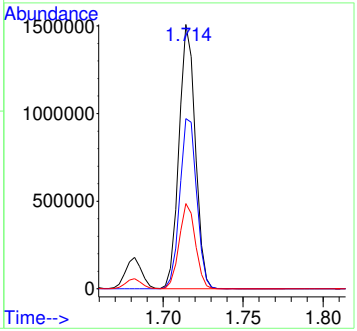


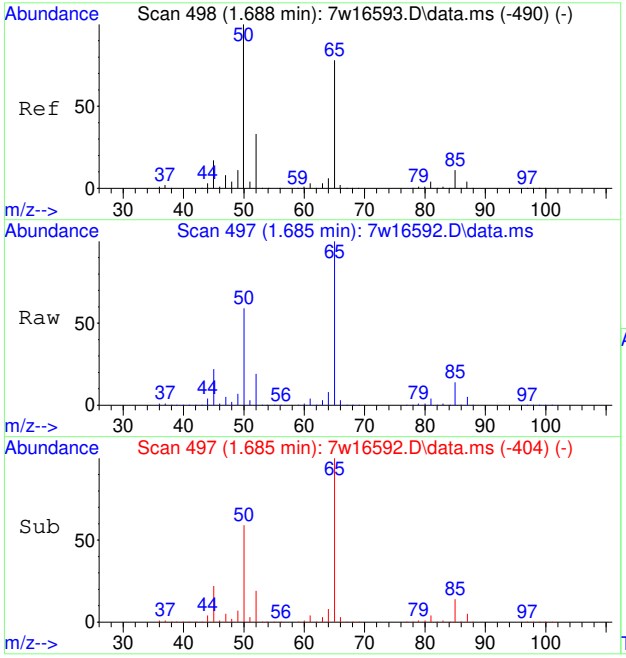


#9
FREON 114
Concen: 38.99 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 85 Resp: 1067029

Ion	Ratio	Lower	Upper
85	100		
135	66.8	46.1	85.7
87	32.1	22.6	42.0

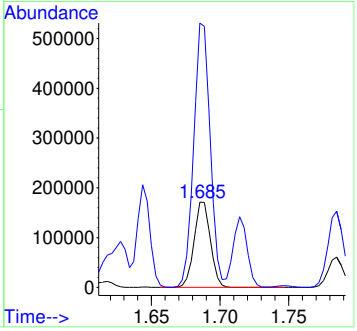


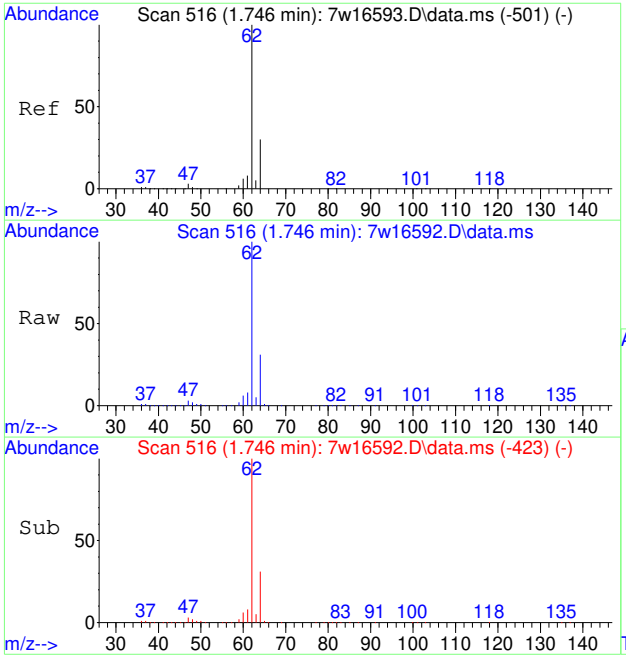


#10
CHLOROMETHANE
Concen: 36.20 PPBV
RT: 1.685 min Scan# 497
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 141787

Ion	Ratio	Lower	Upper
52	100		
50	311.9	225.6	419.0

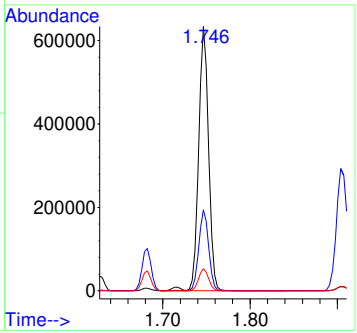


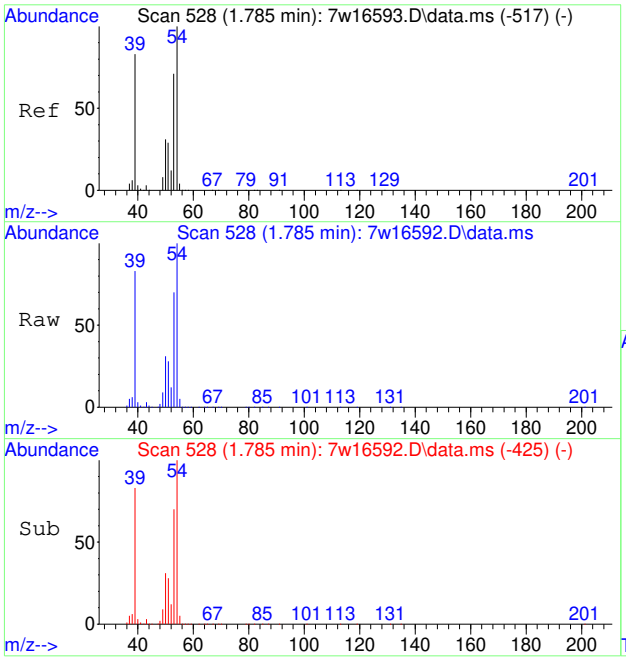


#11
VINYL CHLORIDE
Concen: 36.90 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 502517

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.3	5.7	10.5

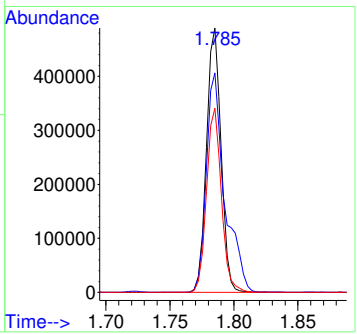


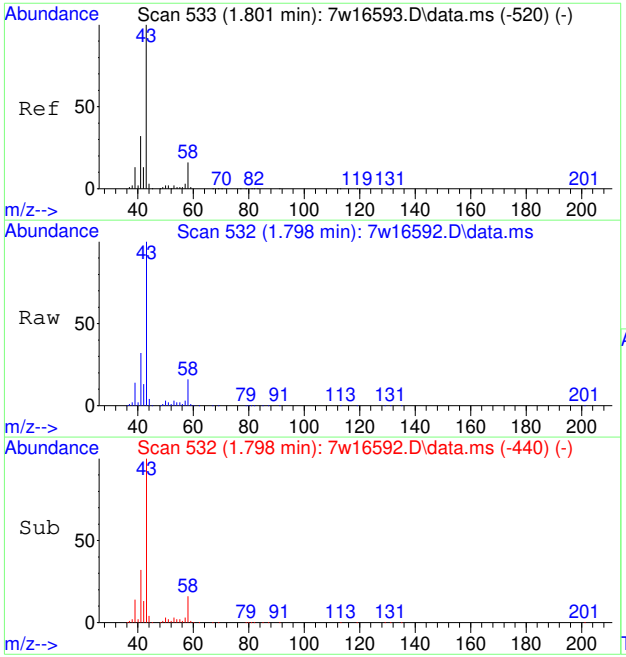


#12
1,3-BUTADIENE
Concen: 35.40 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 54 Resp: 386481

Ion	Ratio	Lower	Upper
54	100		
39	105.3	78.4	138.4
53	71.4	40.9	100.9

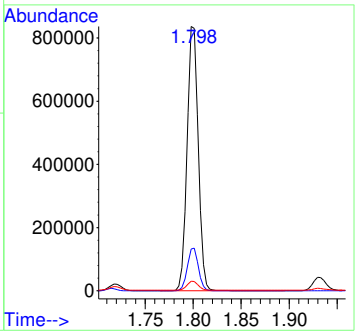


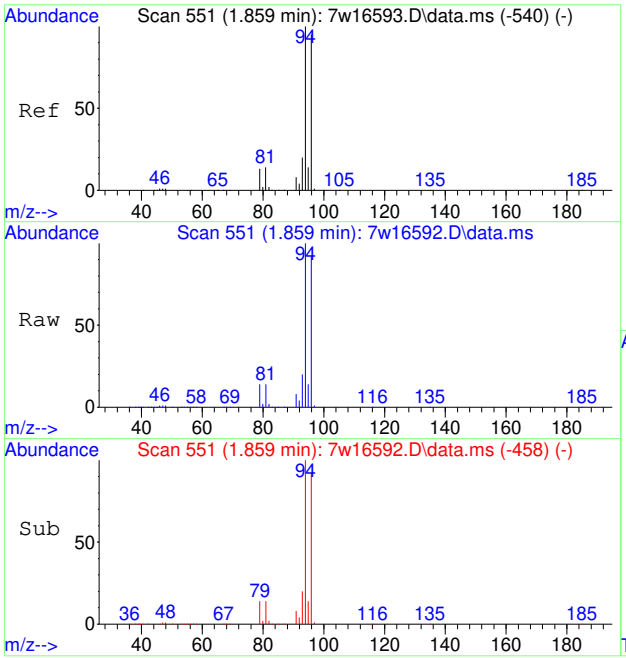


#13
N-BUTANE
Concen: 36.22 PPBV
RT: 1.798 min Scan# 532
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 676218

Ion	Ratio	Lower	Upper
43	100		
58	16.0	11.0	20.4
44	3.5	2.6	4.8

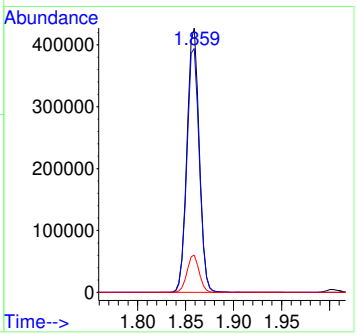


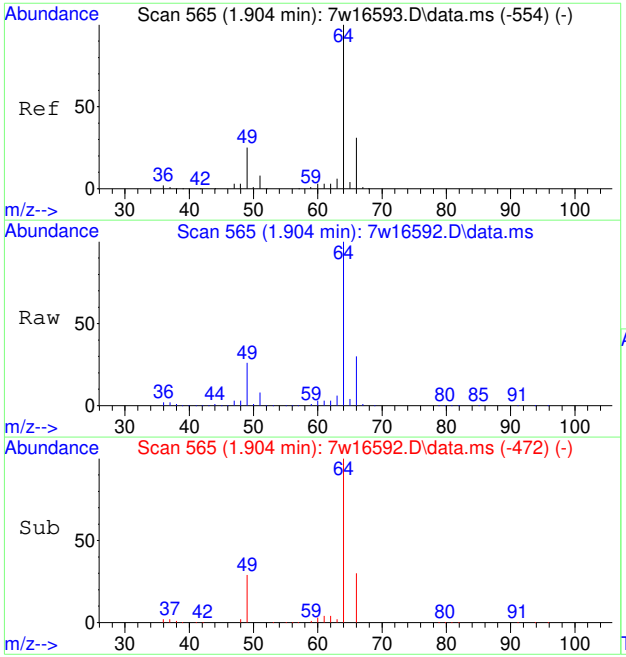


#14
BROMOMETHANE
Concen: 35.73 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 94 Resp: 380493

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	14.0	9.9	18.3

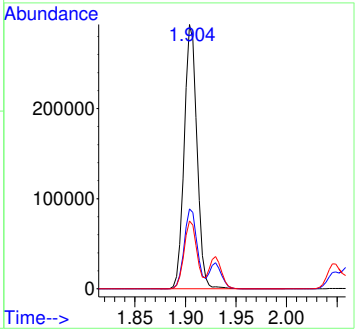


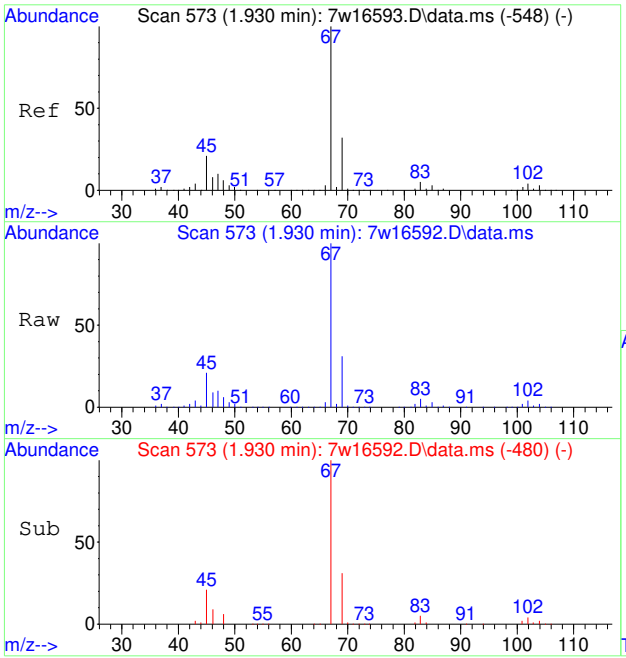


#15
CHLOROETHANE
Concen: 34.46 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 64 Resp: 257541

Ion	Ratio	Lower	Upper
64	100		
66	31.1	21.5	39.9
49	26.6	19.0	35.4

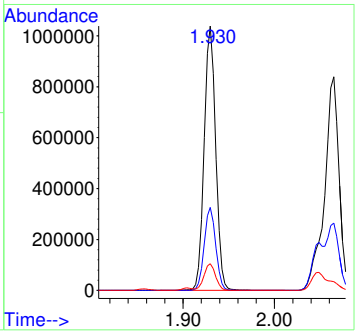


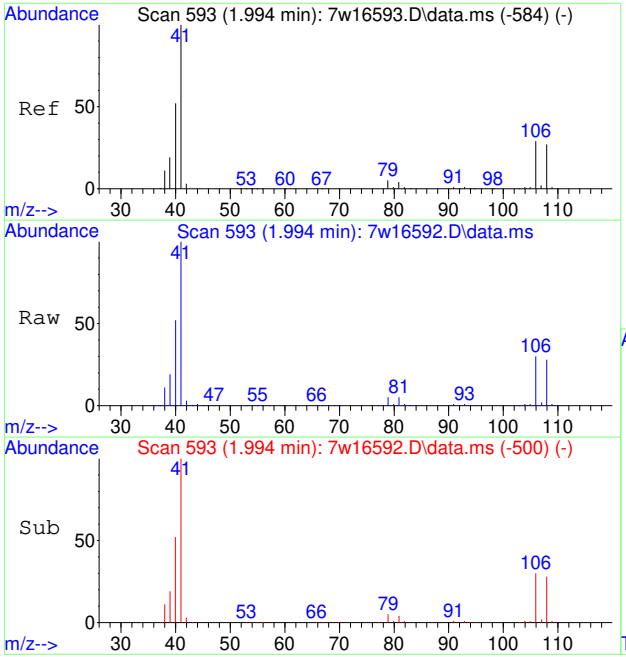


#16
DICHLOROFLUOROMETHANE
Concen: 35.30 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 67 Resp: 910295

Ion	Ratio	Lower	Upper
67	100		
69	31.4	21.8	40.6
47	11.0	8.0	14.8

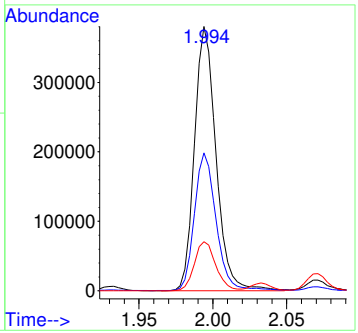


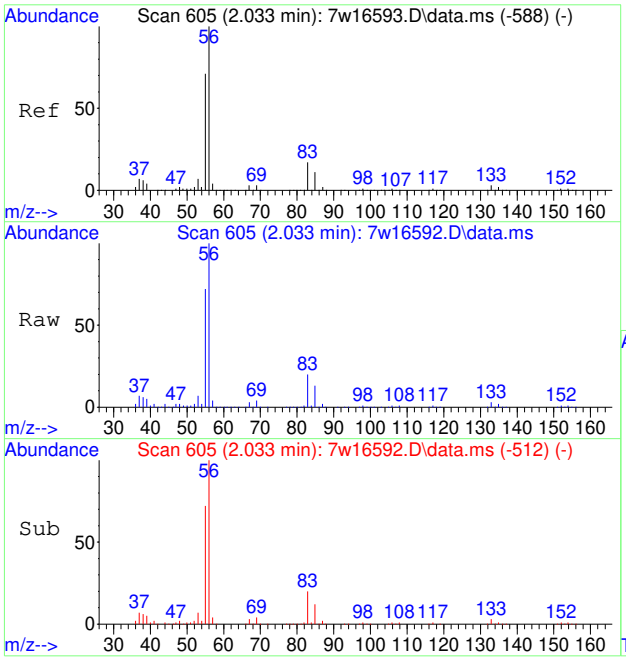


#17
ACETONITRILE
Concen: 28.62 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 41 Resp: 384504

Ion	Ratio	Lower	Upper
41	100		
40	52.6	36.7	68.1
39	18.4	13.1	24.3

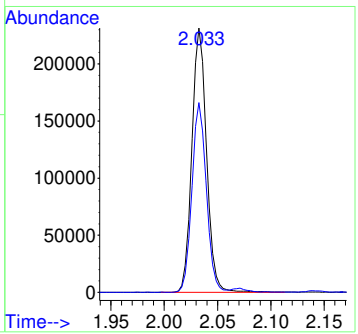


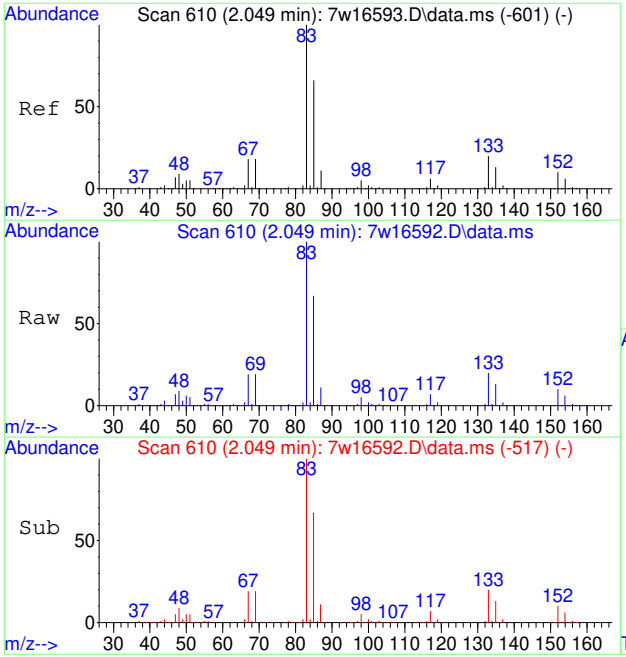


#18
ACROLEIN
Concen: 35.64 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 56 Resp: 220730

Ion	Ratio	Lower	Upper
56	100		
55	70.7	48.9	90.7

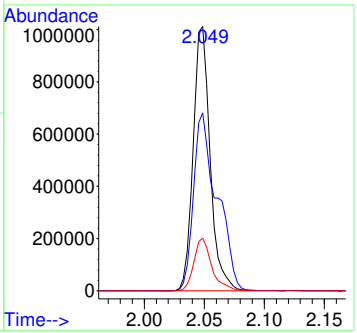


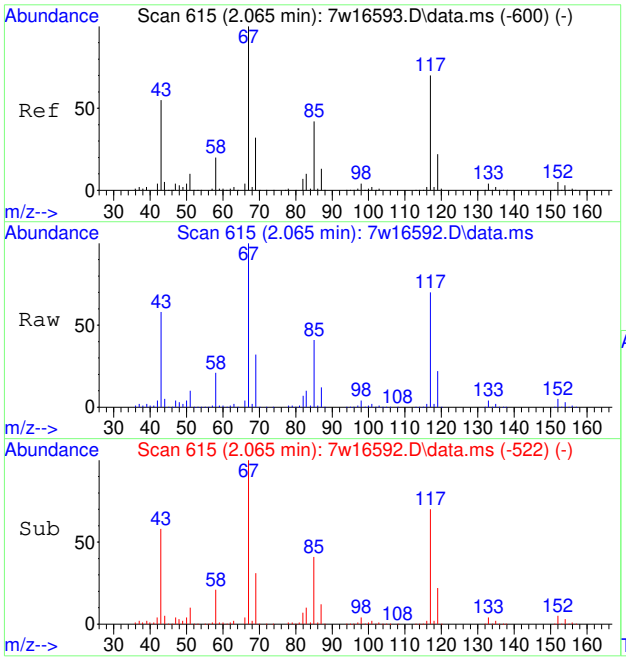


#19
FREON 123
Concen: 38.68 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 996862

Ion	Ratio	Lower	Upper
83	100		
85	93.1	64.9	120.5
133	20.9	14.7	27.3

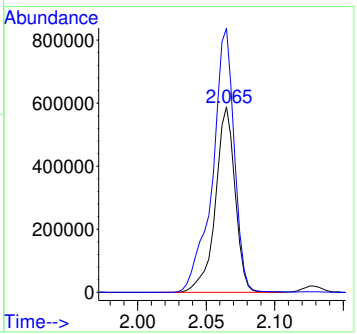


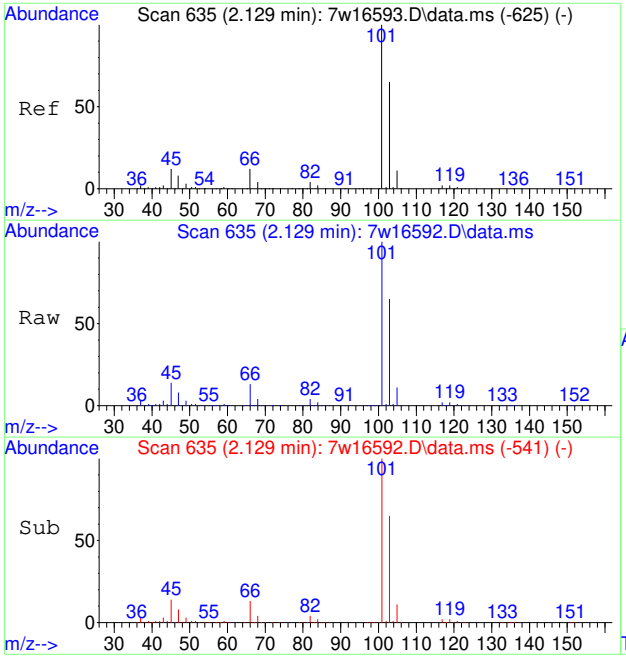


#20
FREON 123A
Concen: 38.26 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 586604

Ion	Ratio	Lower	Upper
117	100		
67	157.9	111.3	206.7

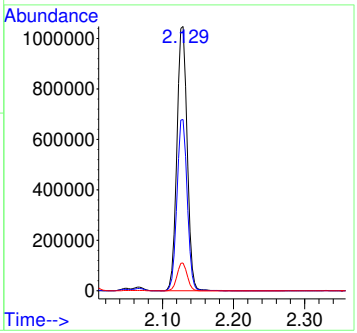


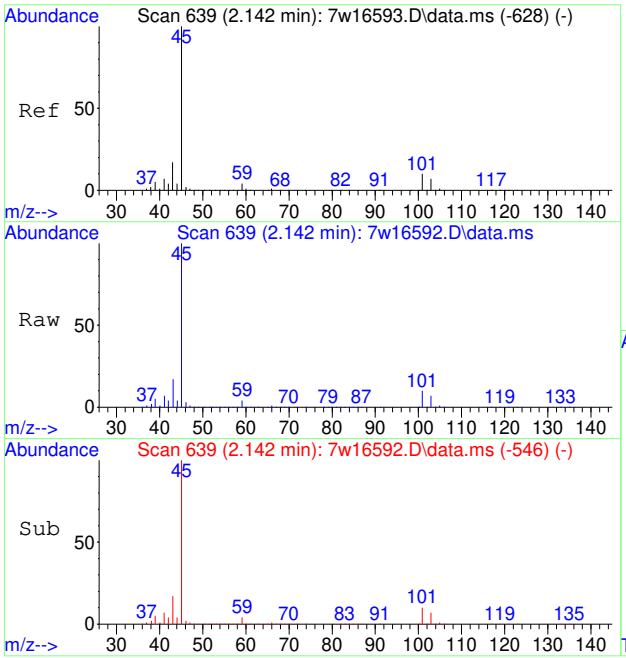


#21
TRICHLOROFLUOROMETHANE
Concen: 35.69 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:101 Resp: 1049426

Ion	Ratio	Lower	Upper
101	100		
103	64.8	45.2	84.0
105	10.5	7.3	13.5

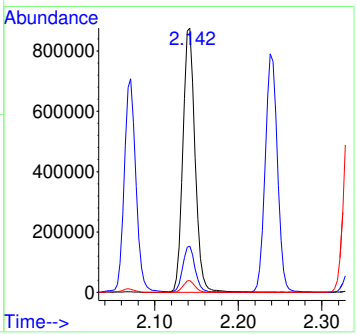


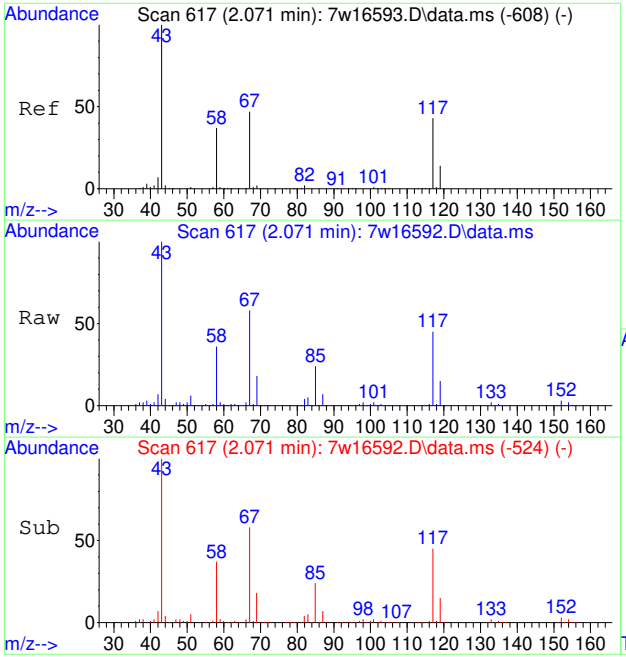


#22
ISOPROPYL ALCOHOL
Concen: 34.78 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 888452

Ion	Ratio	Lower	Upper
45	100		
43	17.7	12.5	23.3
59	4.5	3.1	5.7

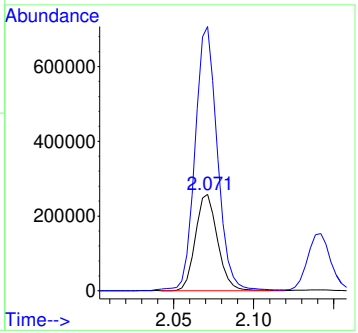


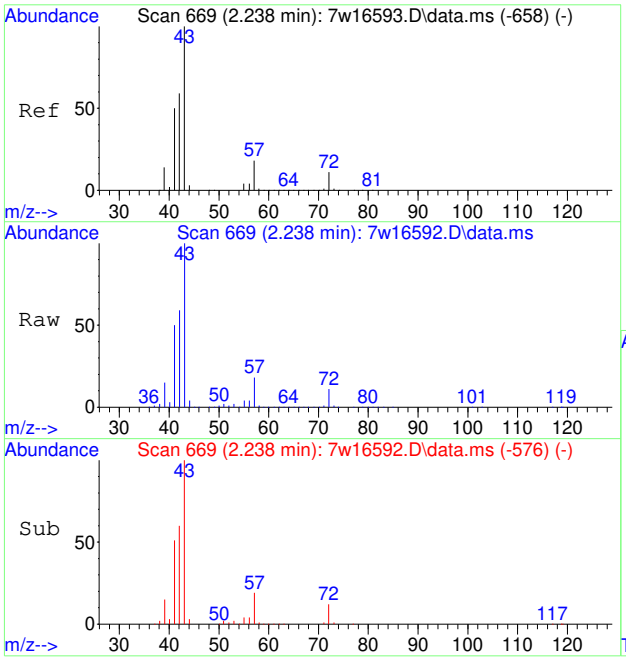


#23
ACETONE
Concen: 35.92 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 248365

Ion	Ratio	Lower	Upper
58	100		
43	276.2	198.6	368.8

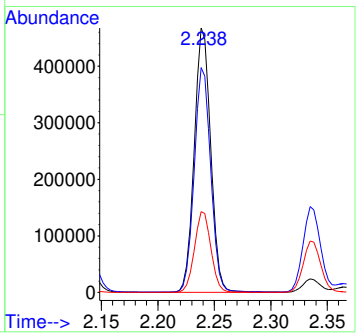


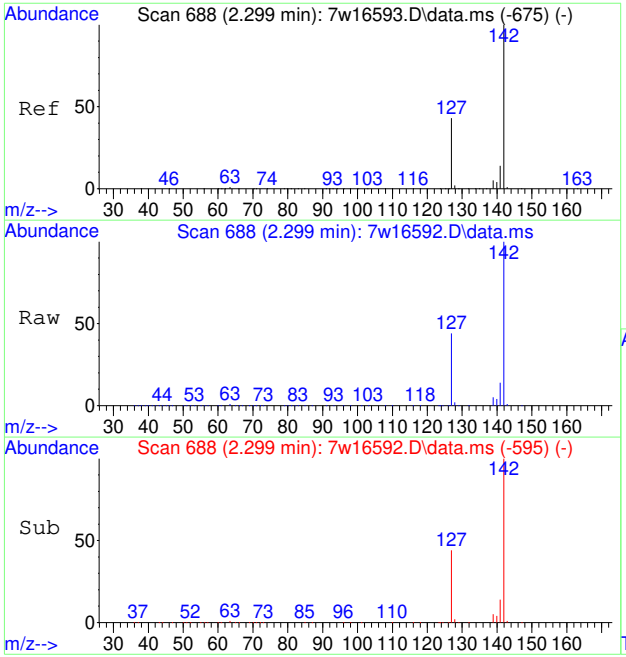


#24
PENTANE
Concen: 34.15 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 42 Resp: 472130

Ion	Ratio	Lower	Upper
42	100		
41	85.2	59.8	111.0
57	30.5	21.1	39.1

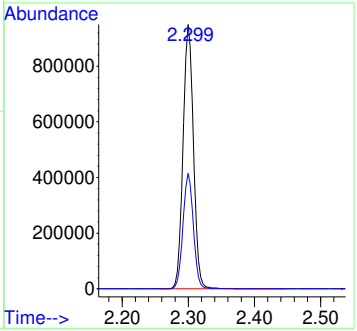


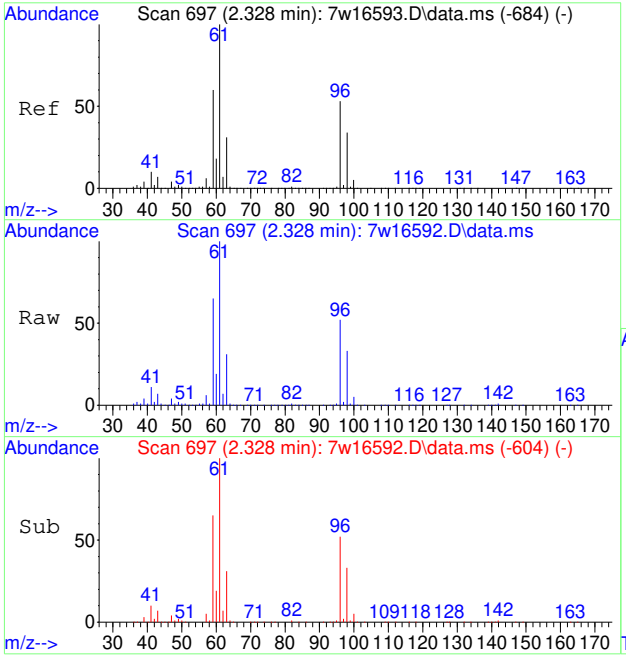


#25
IODOMETHANE
Concen: 38.79 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:142 Resp: 1038259

Ion	Ratio	Lower	Upper
142	100		
127	43.6	30.6	56.8

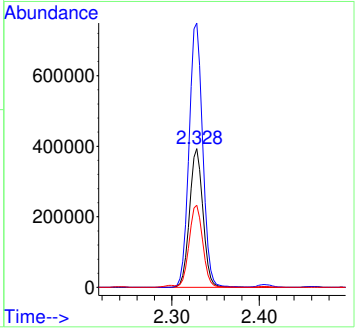


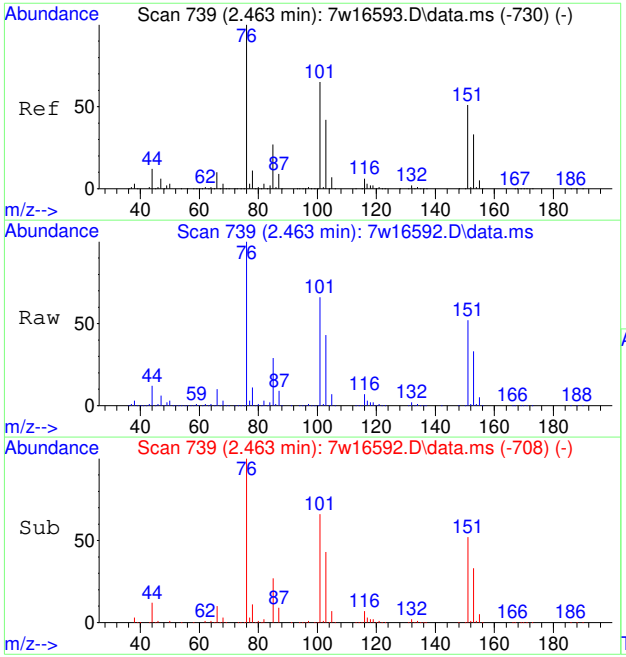


#26
1,1-DICHLOROETHYLENE
Concen: 37.54 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 419658

Ion	Ratio	Lower	Upper
96	100		
61	193.7	138.3	256.8
63	61.5	44.2	82.0

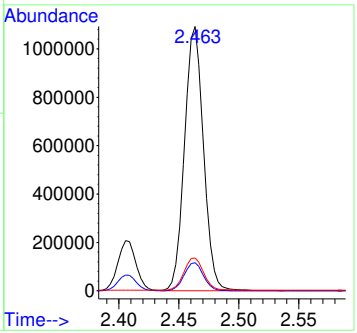


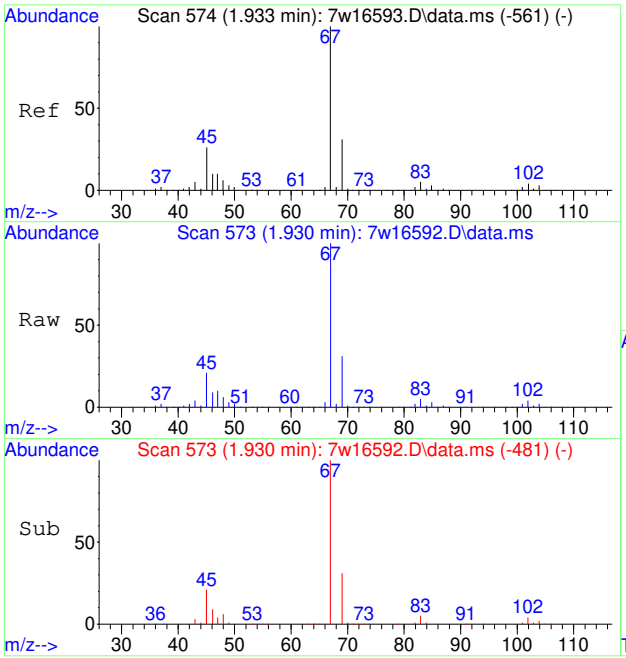


#27
CARBON DISULFIDE
Concen: 37.99 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 1201974

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.8	10.2	19.0

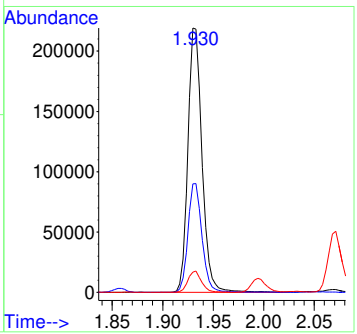


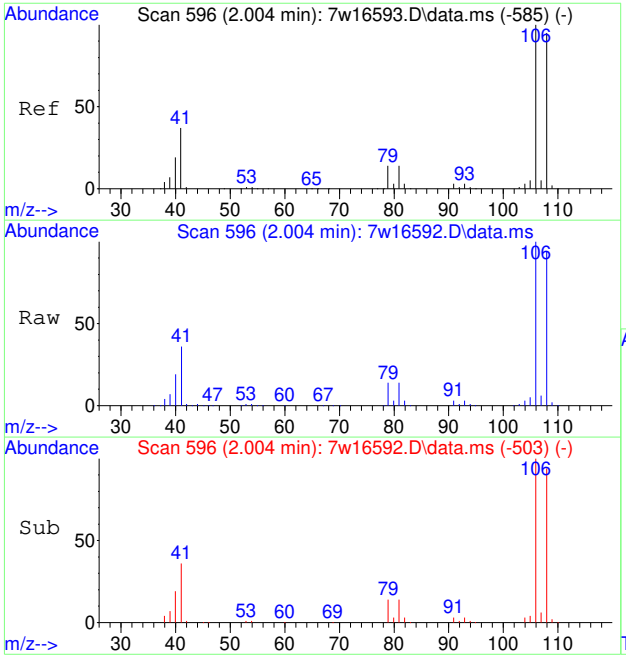


#28
ETHANOL
Concen: 31.01 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 45 Resp: 213512

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.9	5.7	10.5

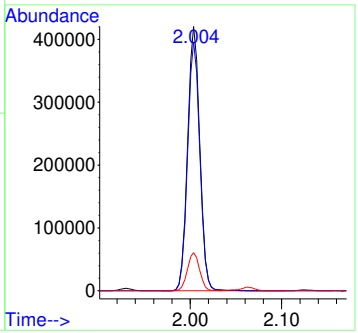


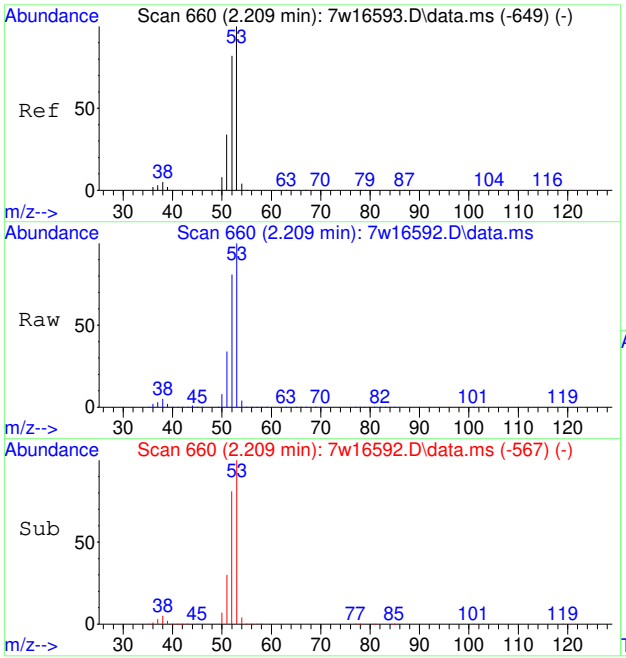


#29
BROMOETHENE
Concen: 36.91 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:106 Resp: 389718

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.5	10.6	19.8

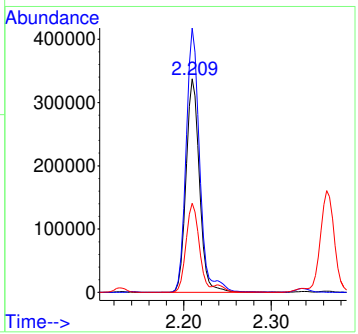


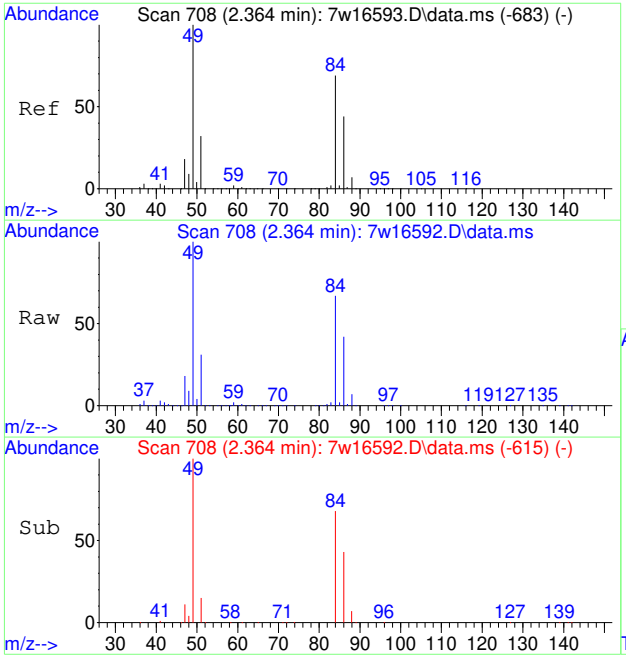


#30
ACRYLONITRILE
Concen: 37.39 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 52 Resp: 360634

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.2	31.3	58.1

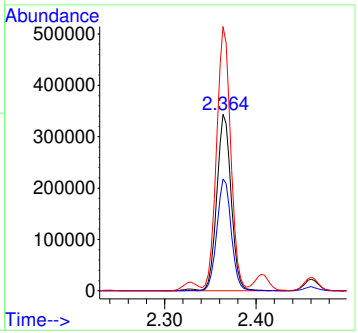


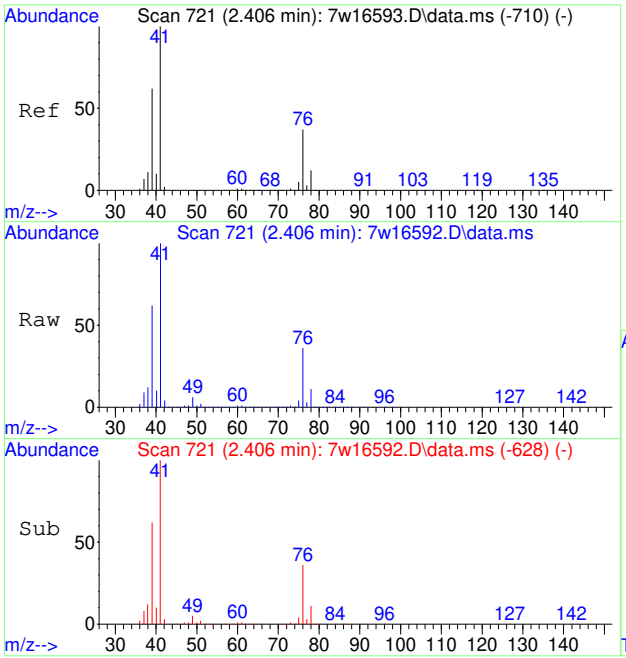


#31
METHYLENE CHLORIDE
Concen: 33.80 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 378529

Ion	Ratio	Lower	Upper
84	100		
86	63.2	44.3	82.3
49	147.1	109.5	203.3

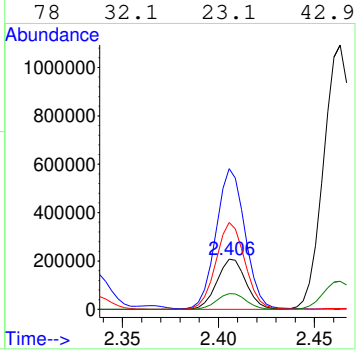


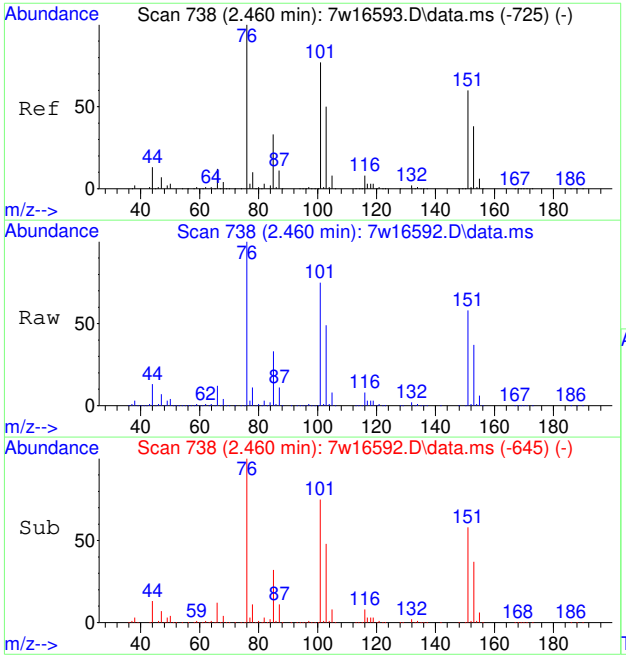


#32
3-CHLOROPROPENE
Concen: 36.95 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 219238

Ion	Ratio	Lower	Upper
76	100		
41	280.1	202.6	376.2
39	172.5	125.8	233.6
78	32.1	23.1	42.9

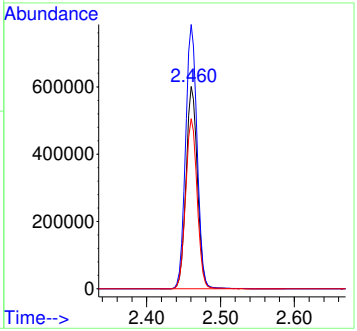


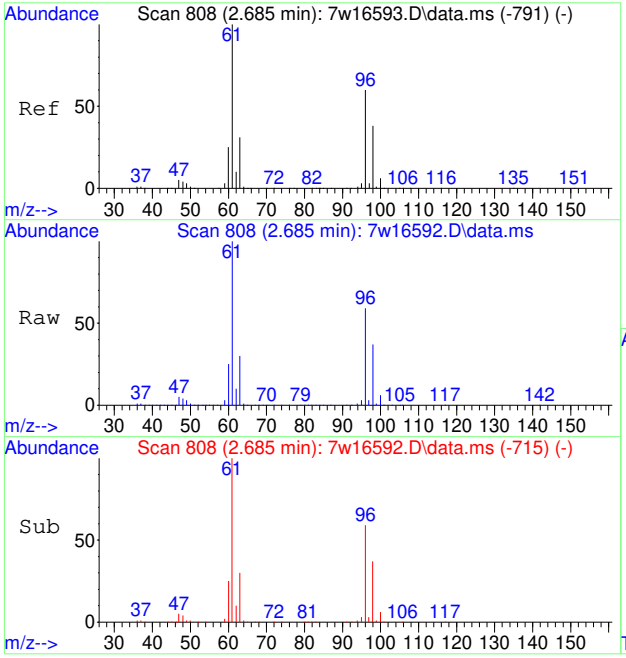


#33
FREON 113
Concen: 38.50 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:151 Resp: 643045

Ion	Ratio	Lower	Upper
151	100		
101	132.0	93.1	172.9
103	85.1	60.1	111.5

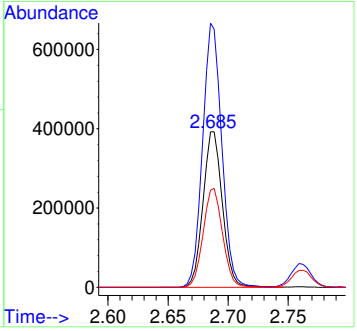


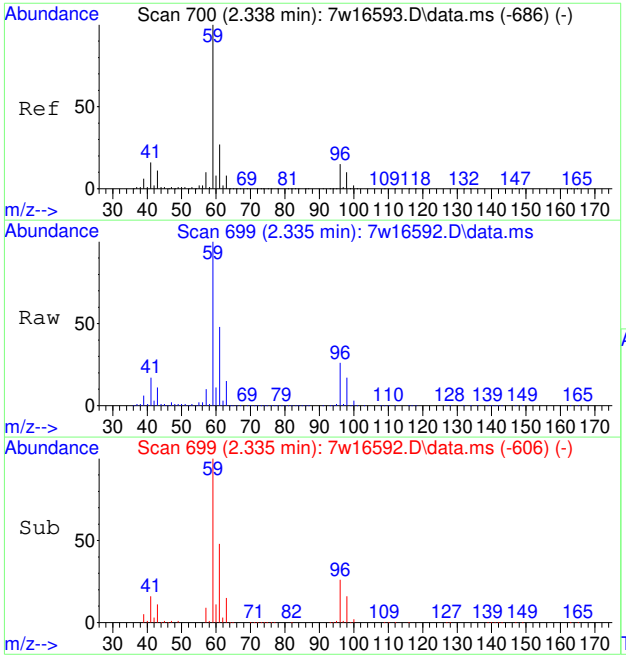


#34
TRANS-1,2-DICHLOROETHENE
Concen: 35.87 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 441405

Ion	Ratio	Lower	Upper
96	100		
61	167.8	119.6	222.0
98	63.6	44.9	83.5

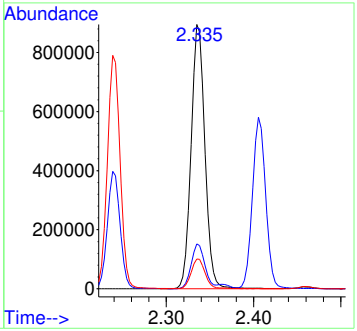


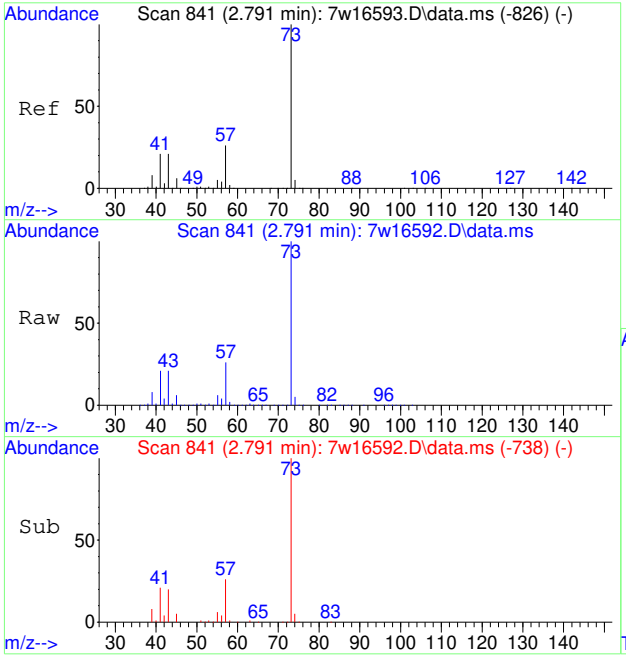


#35
TERTIARY BUTYL ALCOHOL
Concen: 31.02 PPBV
RT: 2.335 min Scan# 699
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 985604

Ion	Ratio	Lower	Upper
59	100		
41	18.1	12.9	23.9
43	11.4	8.0	14.8

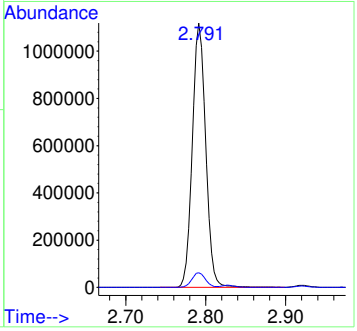


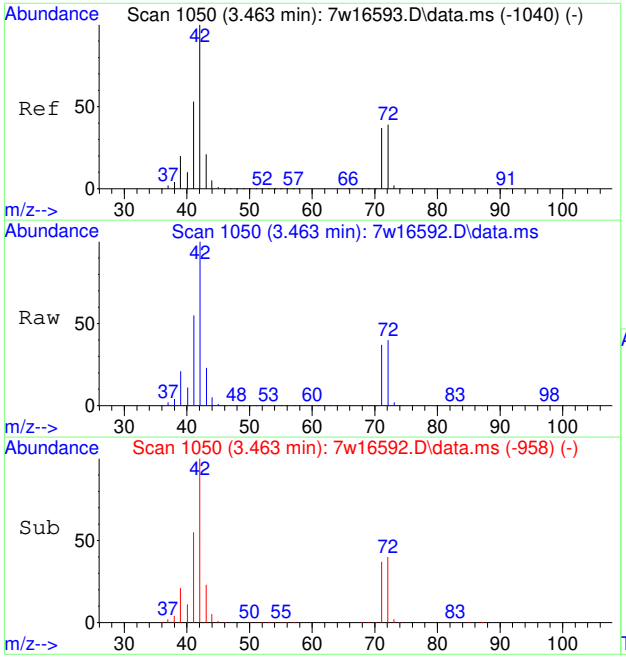


#36
METHYL TERTIARY BUTYL ETHER
Concen: 37.36 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 73 Resp: 1301474

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

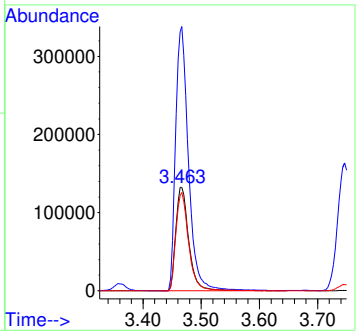


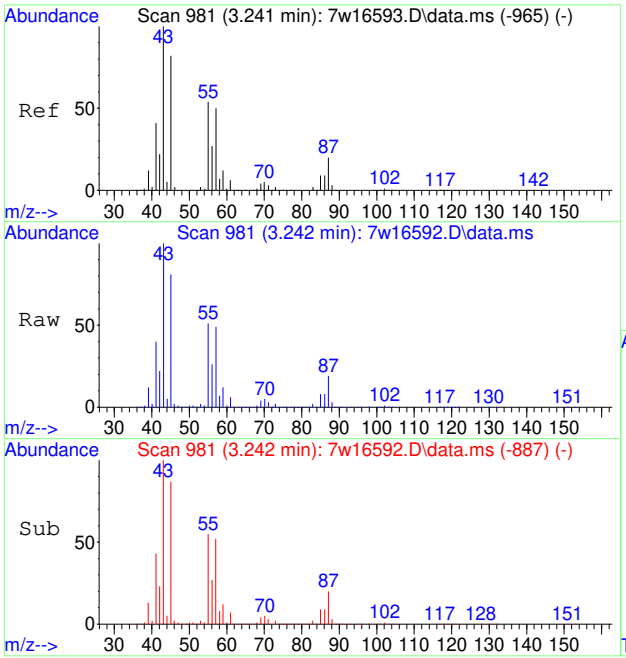


#37
TETRAHYDROFURAN
Concen: 36.97 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 204769

Ion	Ratio	Lower	Upper
72	100		
42	252.8	180.3	334.8
71	93.1	65.8	122.2

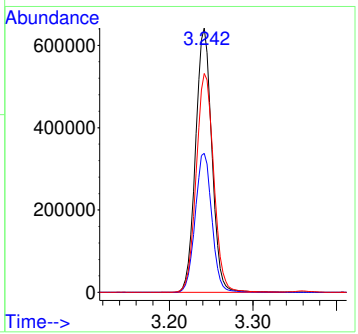


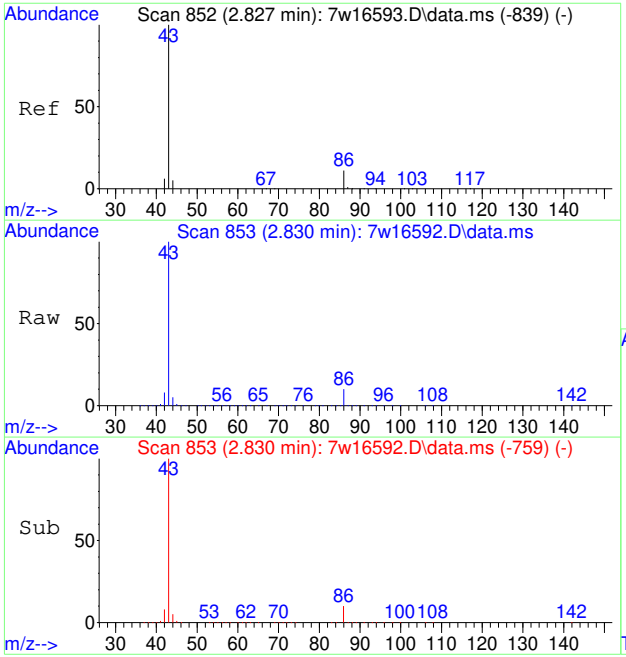


#38
HEXANE
Concen: 36.93 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 870000

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	89.4	65.9	122.5

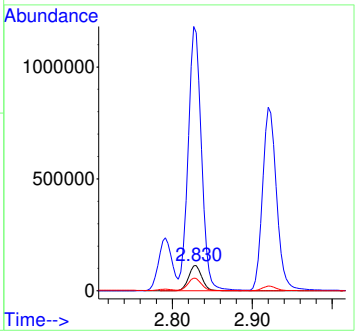


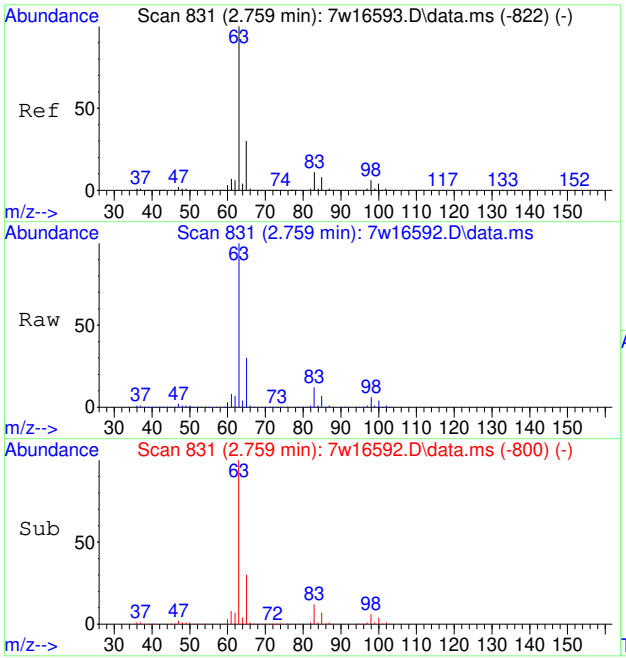


#39
VINYL ACETATE
Concen: 40.25 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 86 Resp: 130550

Ion	Ratio	Lower	Upper
86	100		
43	1050.6	758.7	1408.9
44	50.2	39.5	73.3

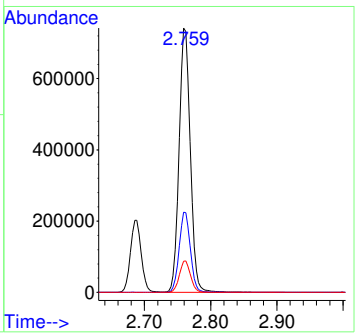


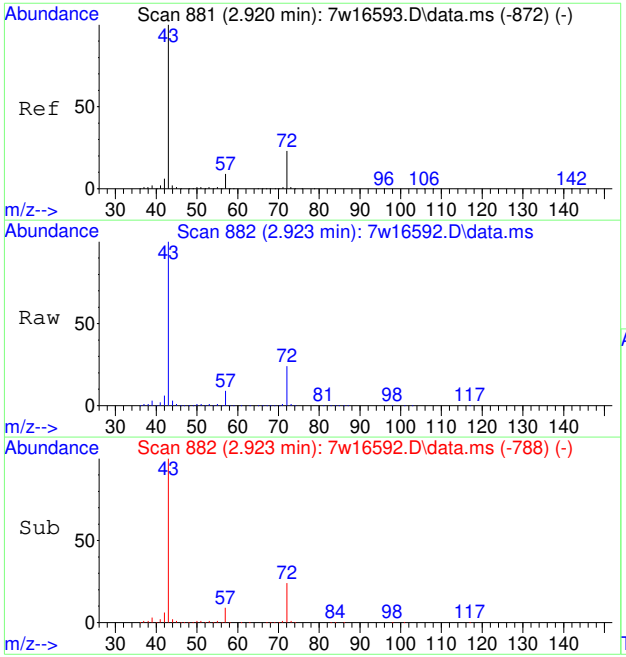


#40
1,1-DICHLOROETHANE
Concen: 37.13 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 876273

Ion	Ratio	Lower	Upper
63	100		
65	30.5	21.4	39.8
83	11.9	8.3	15.5

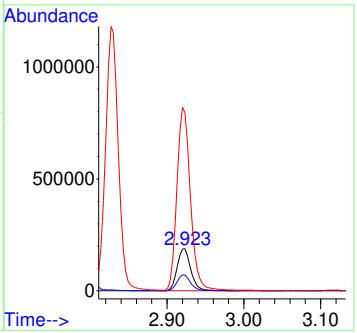


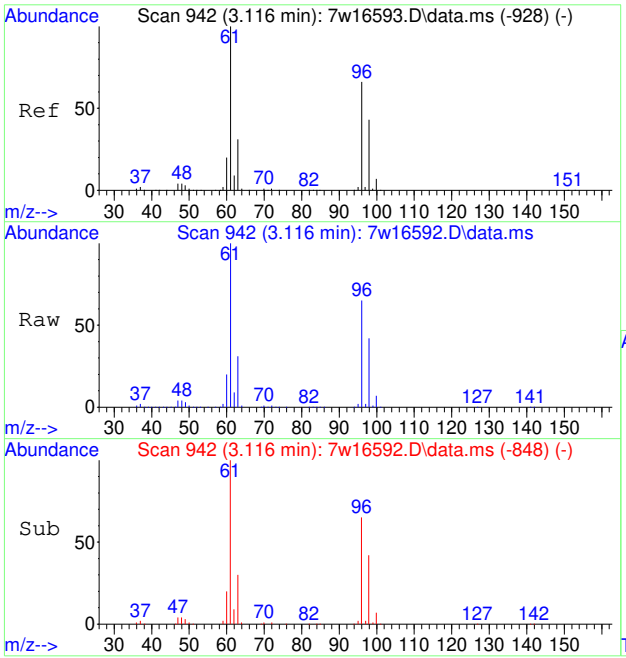


#41
METHYL ETHYL KETONE
Concen: 36.08 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 72 Resp: 232500

Ion	Ratio	Lower	Upper
72	100		
57	37.9	26.9	49.9
43	435.4	309.4	574.6

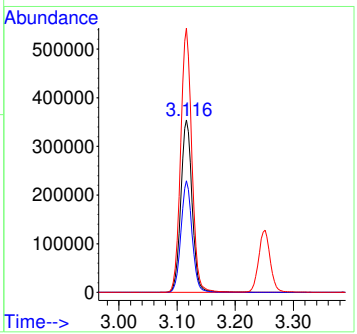


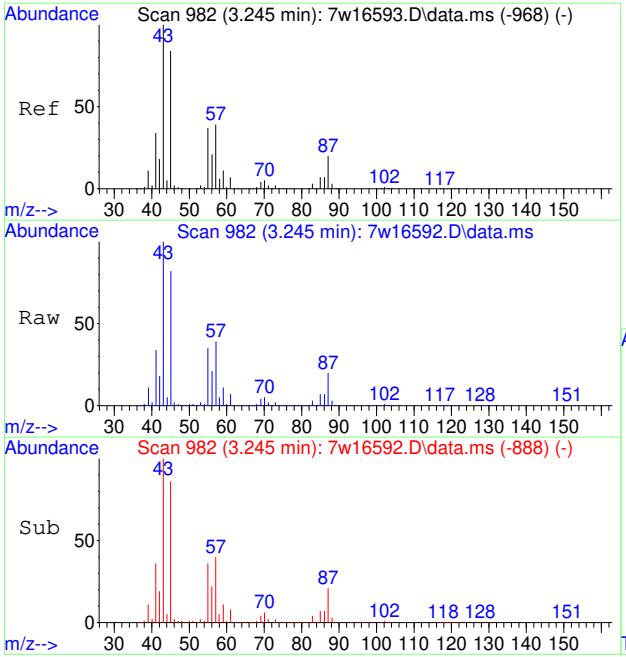


#42
CIS-1,2-DICHLOROETHENE
Concen: 37.74 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 96 Resp: 476500

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	151.3	107.3	199.3

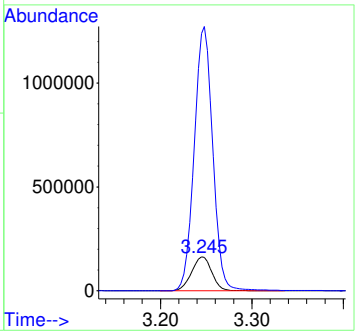


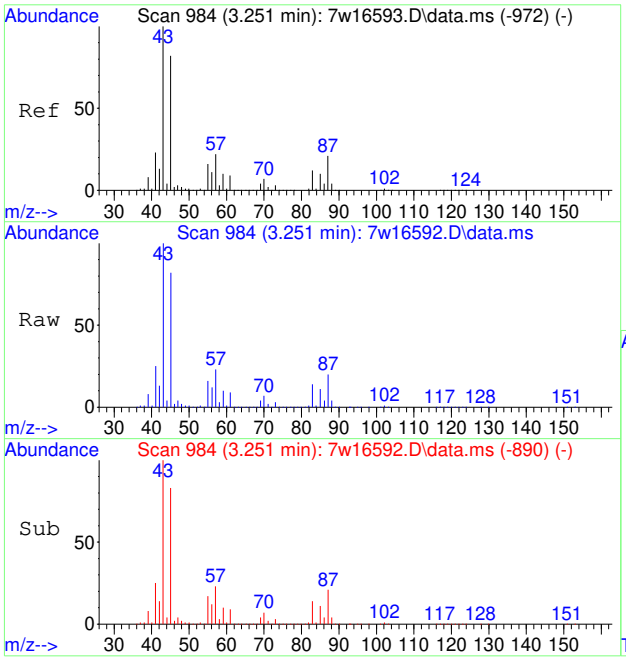


#43
DIISOPROPYL ETHER
Concen: 37.93 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 59 Resp: 251965

Ion	Ratio	Lower	Upper
59	100		
45	711.3	517.6	961.2

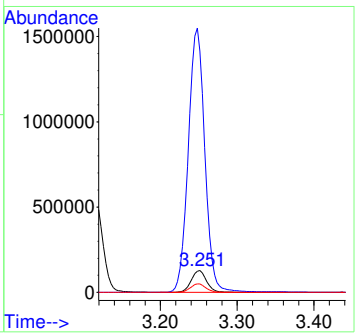


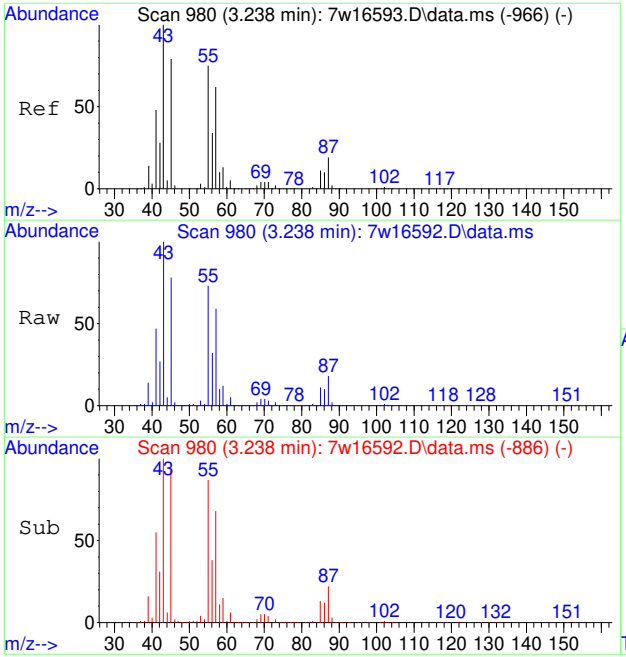


#44
ETHYL ACETATE
Concen: 40.87 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 61 Resp: 179704

Ion	Ratio	Lower	Upper
61	100		
43	1294.1	955.4	1774.4
88	39.7	27.6	51.2

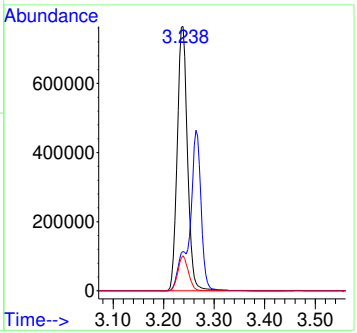


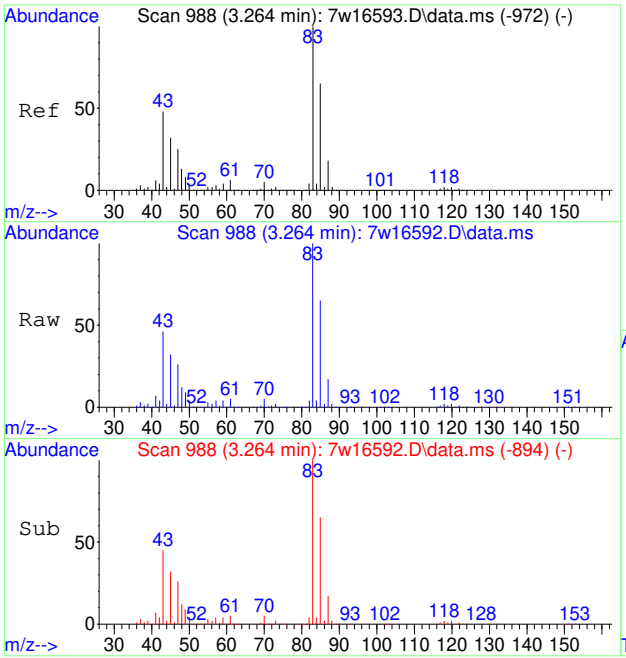


#45
METHYL ACRYLATE
Concen: 38.25 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1081547

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

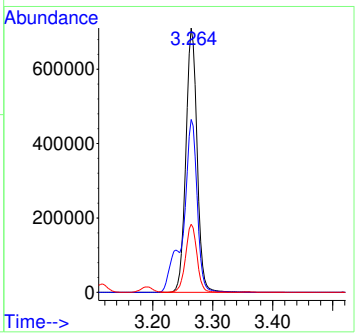


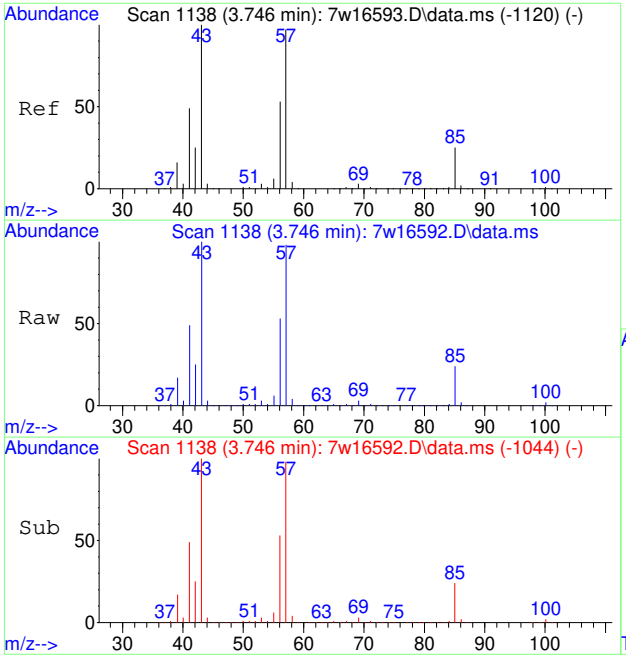


#46
CHLOROFORM
Concen: 37.55 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 920953

Ion	Ratio	Lower	Upper
83	100		
85	81.3	56.0	104.0
47	26.3	19.0	35.4

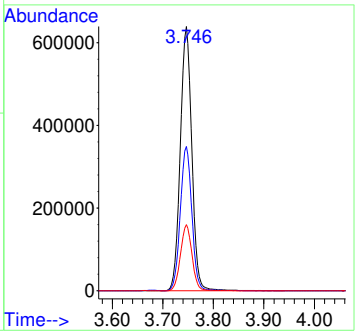


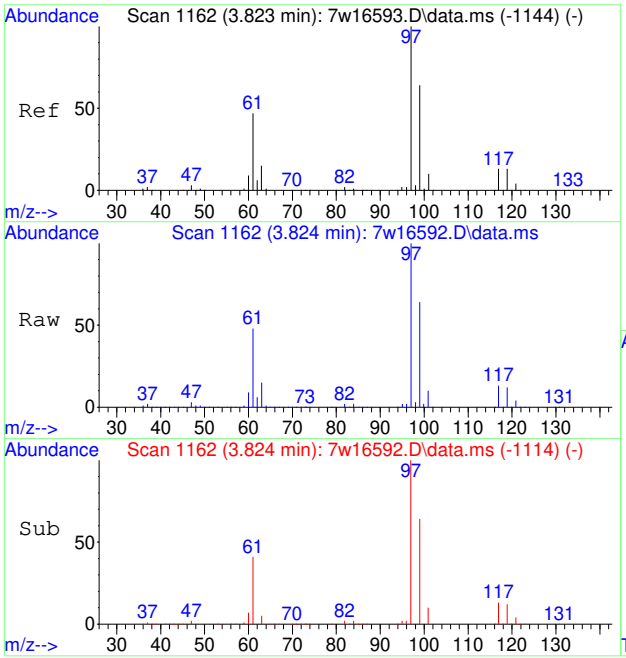


#47
2,4-DIMETHYLPENTANE
Concen: 38.86 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 1014851

Ion	Ratio	Lower	Upper
57	100		
56	54.9	38.4	71.2
85	25.2	17.5	32.5

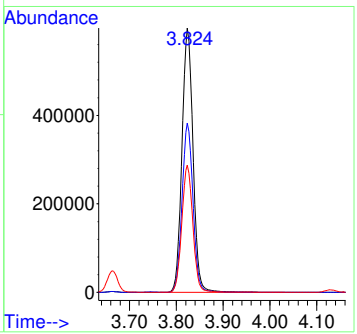


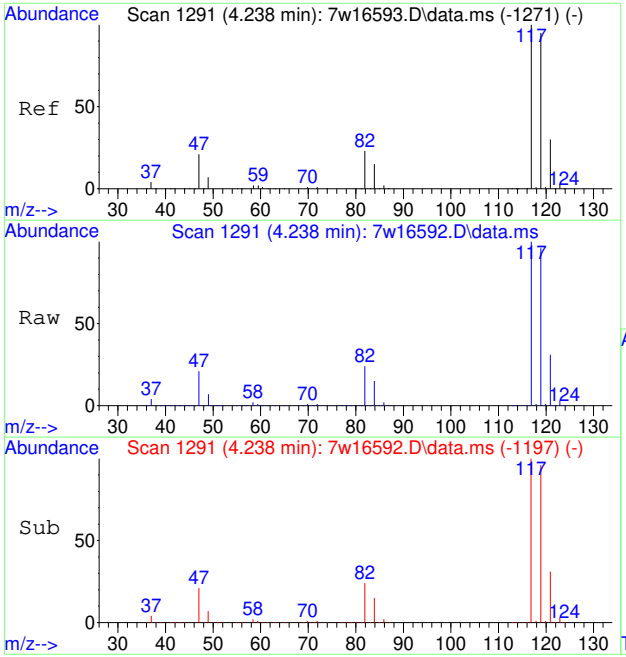


#48
1,1,1-TRICHLOROETHANE
Concen: 38.31 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 97 Resp: 979950

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	48.2	34.7	64.5

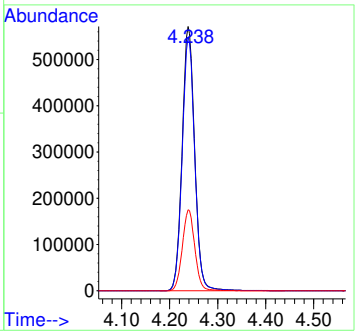


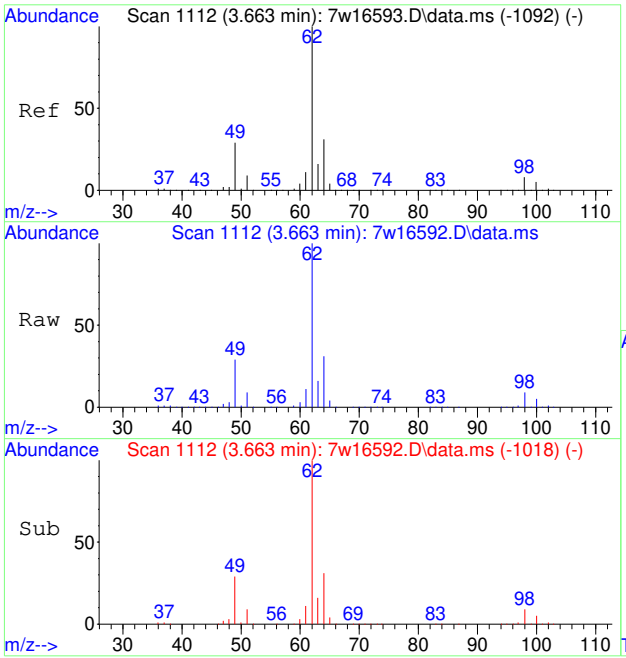


#49
CARBON TETRACHLORIDE
Concen: 39.82 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 1037151

Ion	Ratio	Lower	Upper
117	100		
119	96.3	67.5	125.3
121	30.6	21.3	39.5

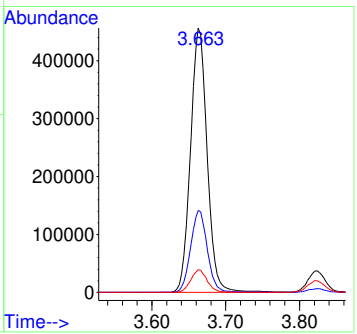


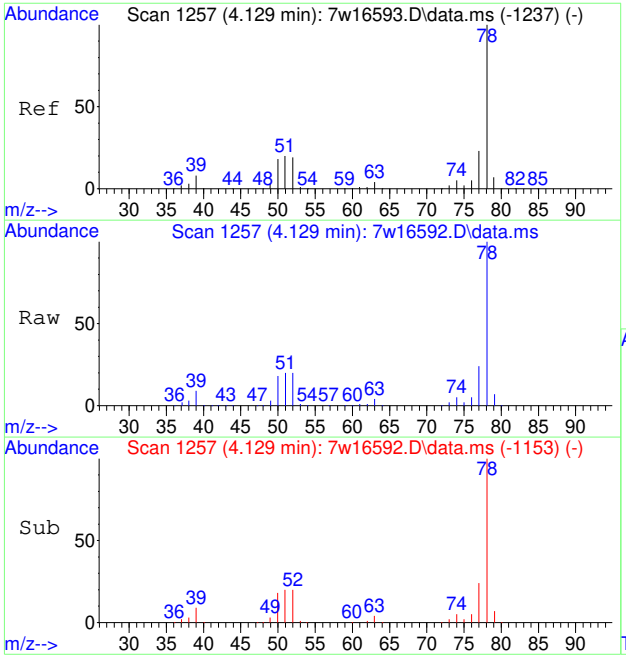


#50
1,2-DICHLOROETHANE
Concen: 37.86 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 62 Resp: 713561

Ion	Ratio	Lower	Upper
62	100		
64	31.2	21.8	40.6
98	8.5	5.8	10.8

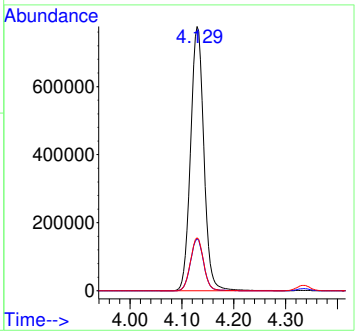


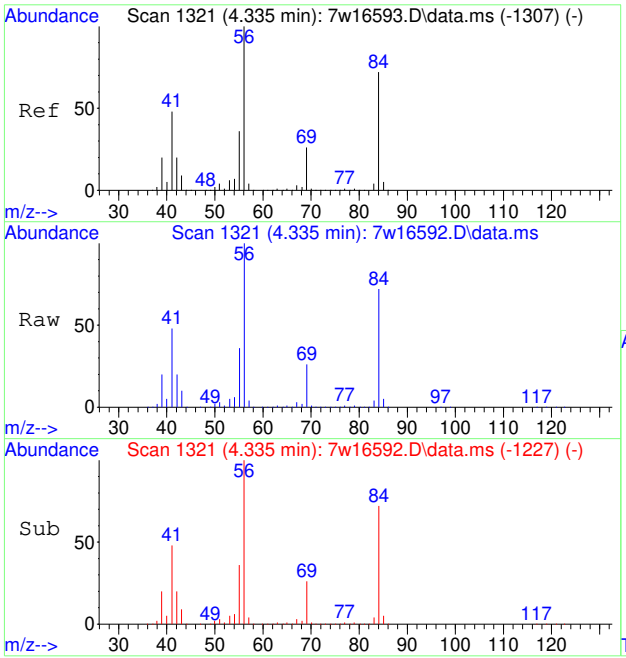


#51
BENZENE
Concen: 36.79 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 78 Resp: 1384237

Ion	Ratio	Lower	Upper
78	100		
52	19.7	0.0	49.9
51	20.0	0.0	50.6

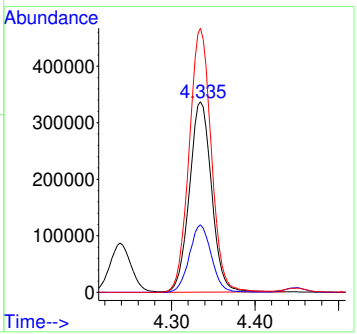


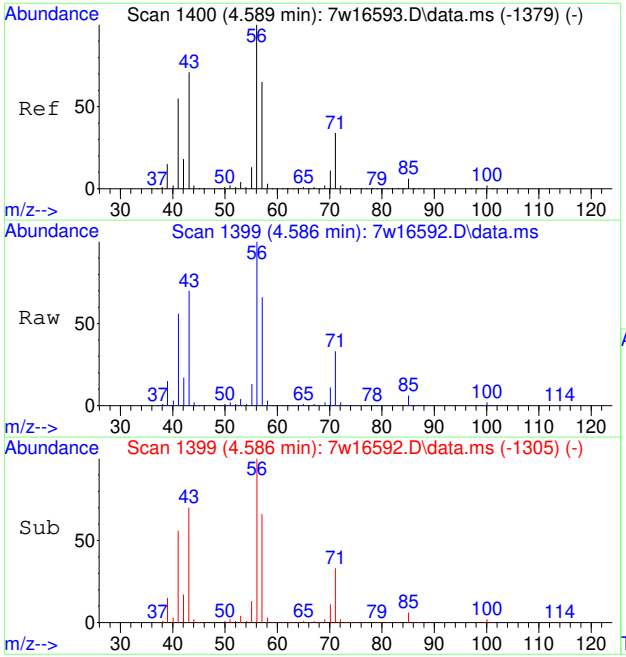


#53
CYCLOHEXANE
Concen: 38.40 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 84 Resp: 620038

Ion	Ratio	Lower	Upper
84	100		
69	35.4	24.6	45.6
56	139.1	96.4	179.0

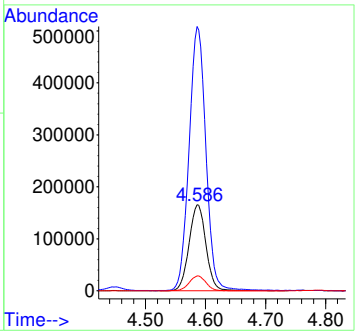


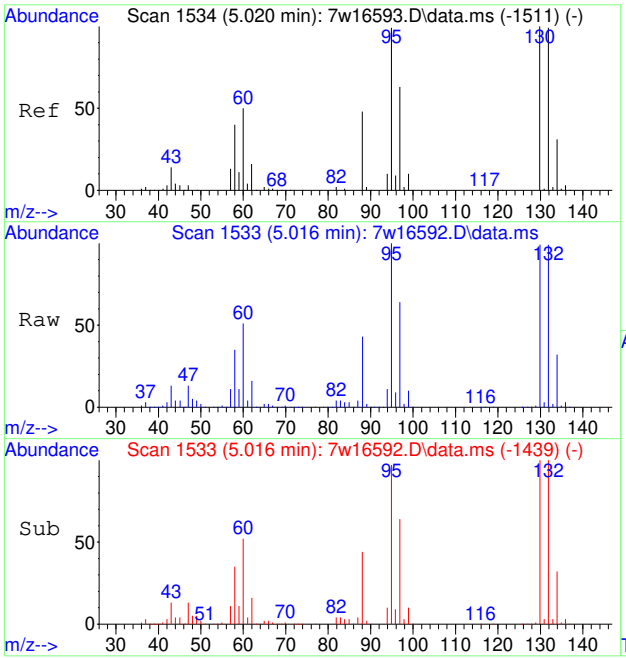


#54
2,3-DIMETHYLPENTANE
Concen: 40.82 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 71 Resp: 325381

Ion	Ratio	Lower	Upper
71	100		
56	304.4	213.2	396.0
85	17.4	12.2	22.6

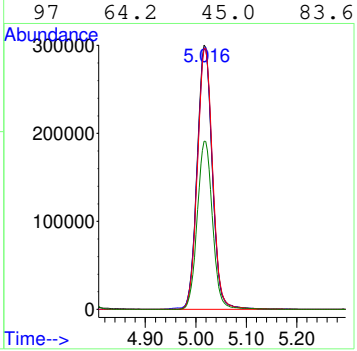


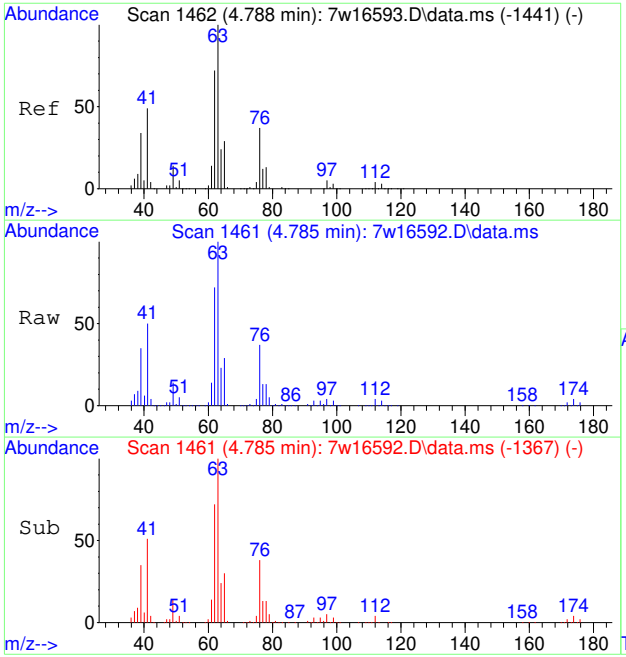


#55
TRICHLOROETHENE
Concen: 36.24 PPBV
RT: 5.016 min Scan# 1533
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 95 Resp: 627429

Ion	Ratio	Lower	Upper
95	100		
130	99.8	69.4	129.0
132	99.3	69.4	128.8
97	64.2	45.0	83.6

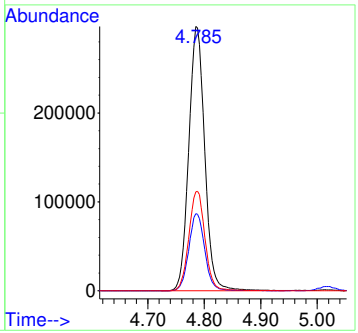


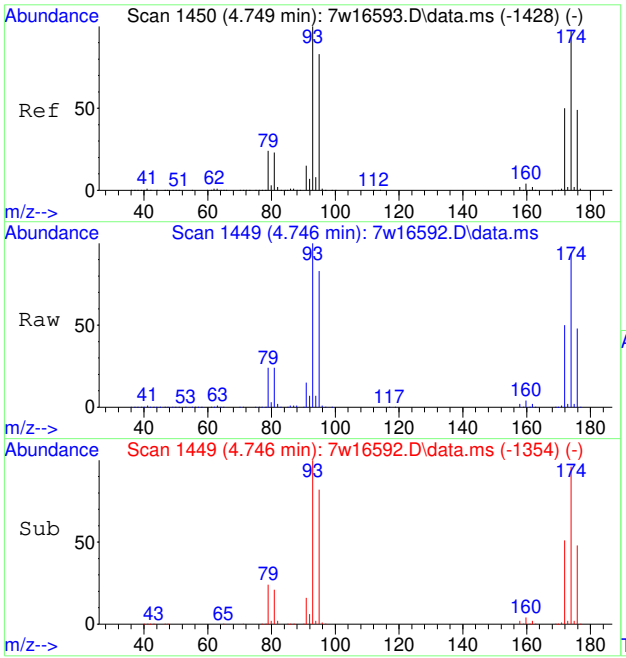


#56
1,2-DICHLOROPROPANE
Concen: 38.36 PPBV
RT: 4.785 min Scan# 1461
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 63 Resp: 583236

Ion	Ratio	Lower	Upper
63	100		
65	29.4	20.5	38.1
76	38.3	27.1	50.3

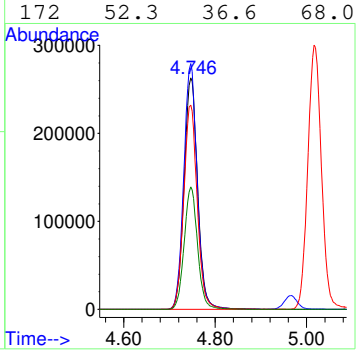


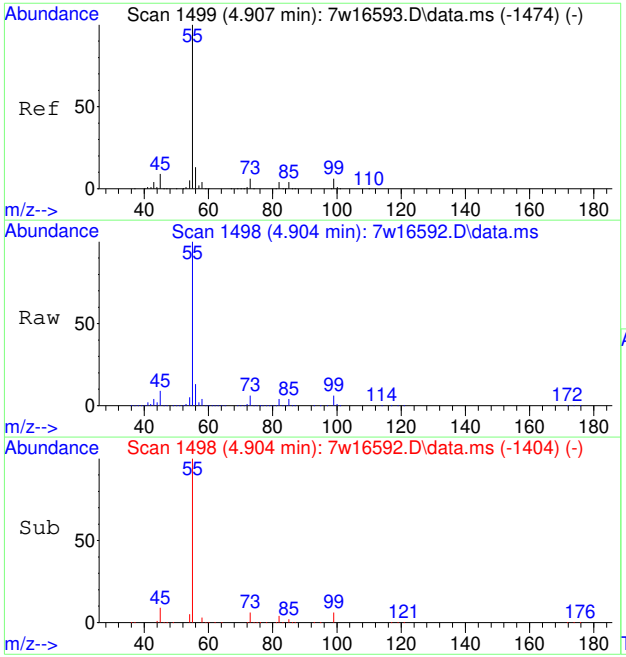


#57
DIBROMOMETHANE
Concen: 36.49 PPBV
RT: 4.746 min Scan# 1449
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:174 Resp: 542289

Ion	Ratio	Lower	Upper
174	100		
93	105.2	75.3	139.9
95	88.2	62.4	115.8
172	52.3	36.6	68.0

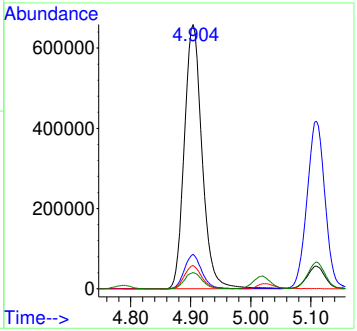


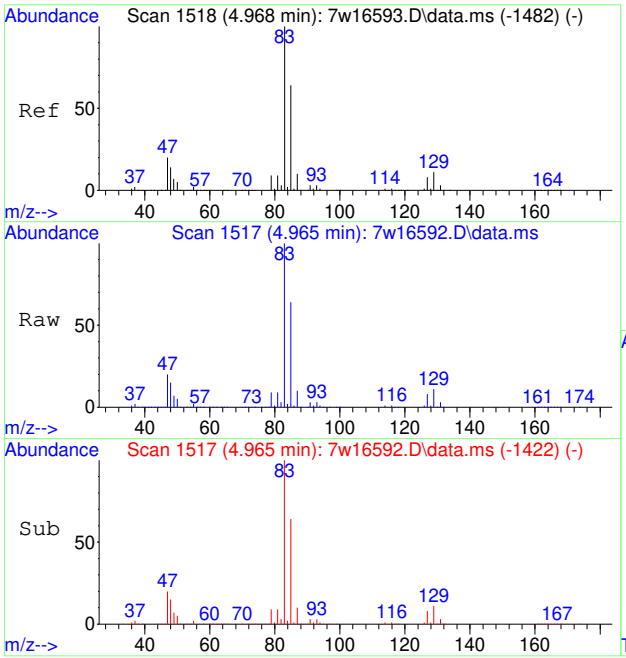


#58
ETHYL ACRYLATE
Concen: 40.04 PPBV
RT: 4.904 min Scan# 1498
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 55 Resp: 1354109

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.6	6.1	11.3
99	6.1	4.3	8.1

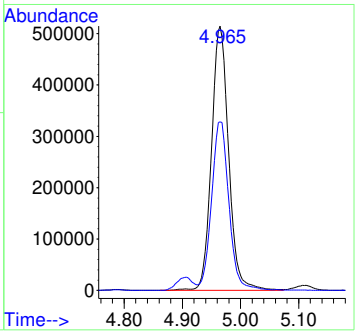


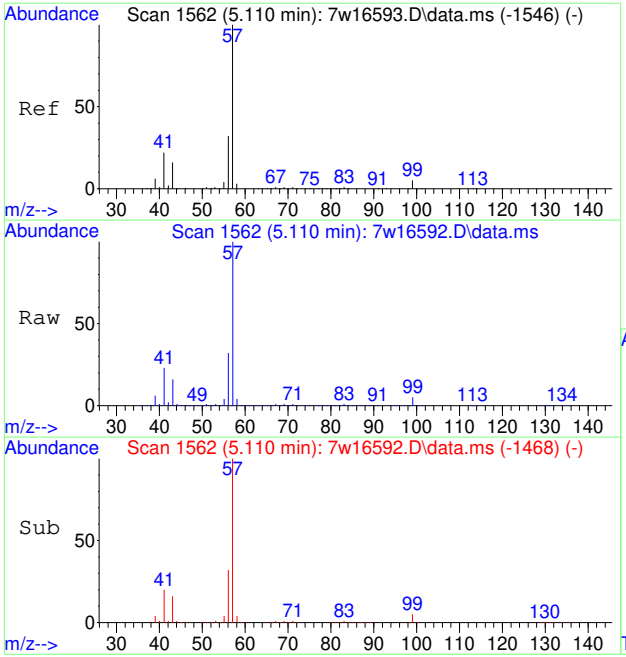


#59
BROMODICHLOROMETHANE
Concen: 38.42 PPBV
RT: 4.965 min Scan# 1517
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1056193

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

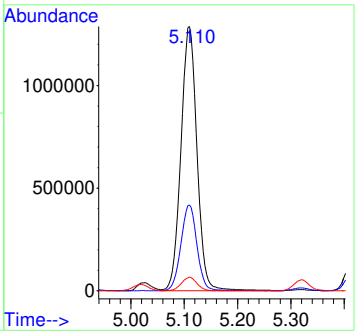


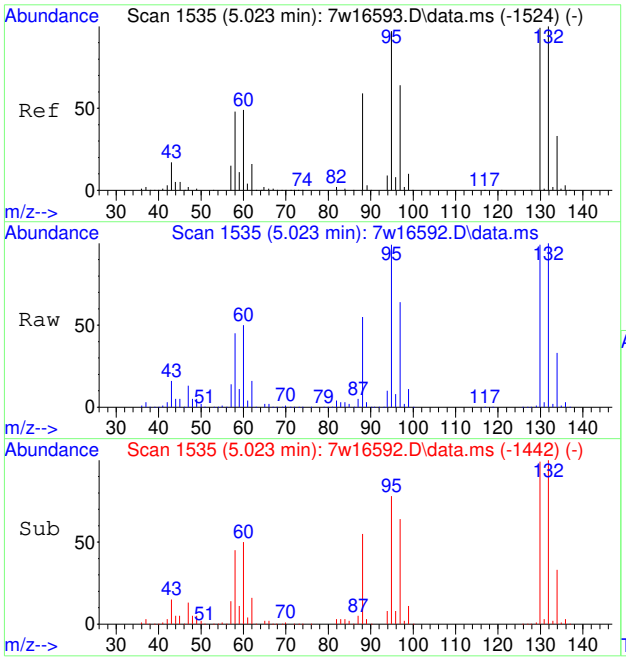


#60
2,2,4-TRIMETHYLPENTANE
Concen: 35.45 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 57 Resp: 2697169

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

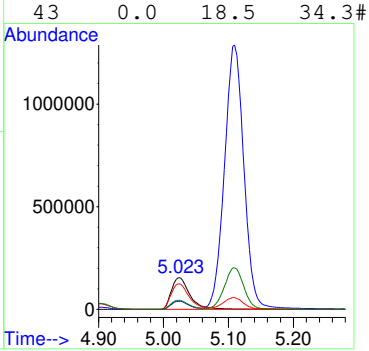


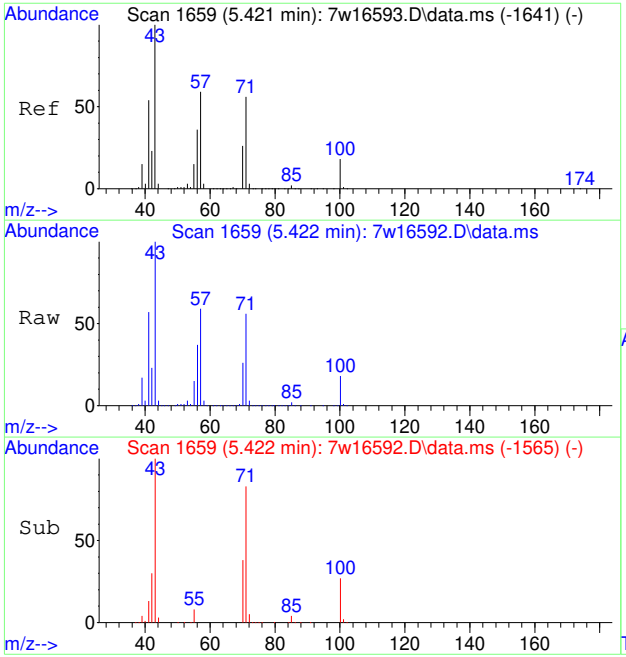


#61
1,4-DIOXANE
Concen: 38.33 PPBV m
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 88 Resp: 307098

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

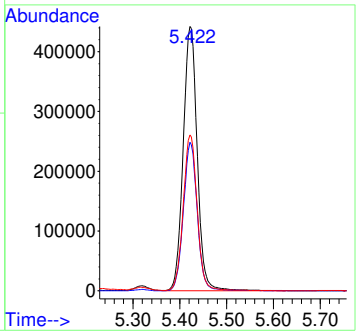


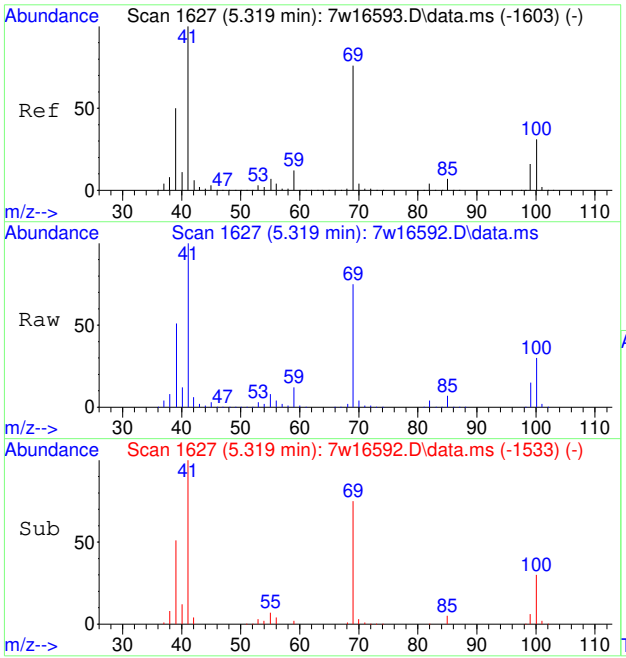


#62
HEPTANE
Concen: 36.76 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 919337

Ion	Ratio	Lower	Upper
43	100		
71	55.6	38.9	72.2
57	59.0	40.5	75.3

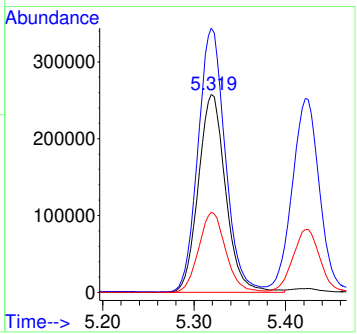


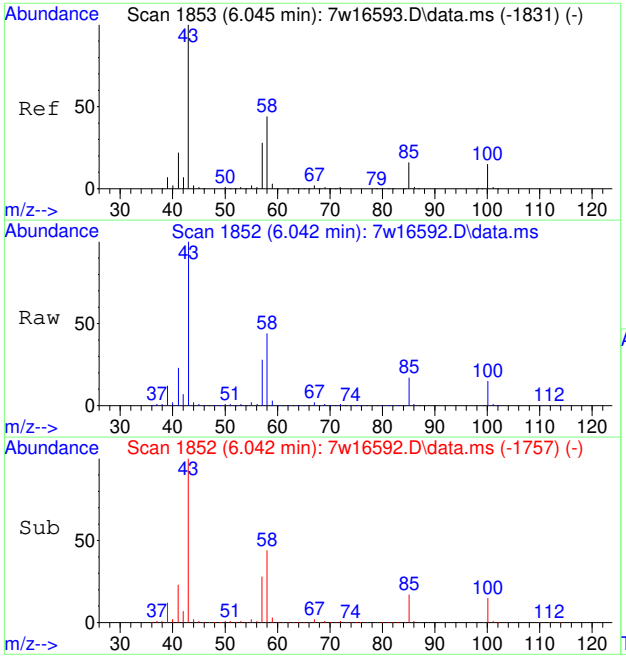


#63
METHYL METHACRYLATE
Concen: 38.93 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 535566

Ion	Ratio	Lower	Upper
69	100		
41	132.0	95.5	177.4
100	40.3	28.1	52.1

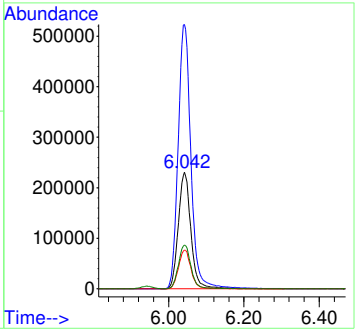


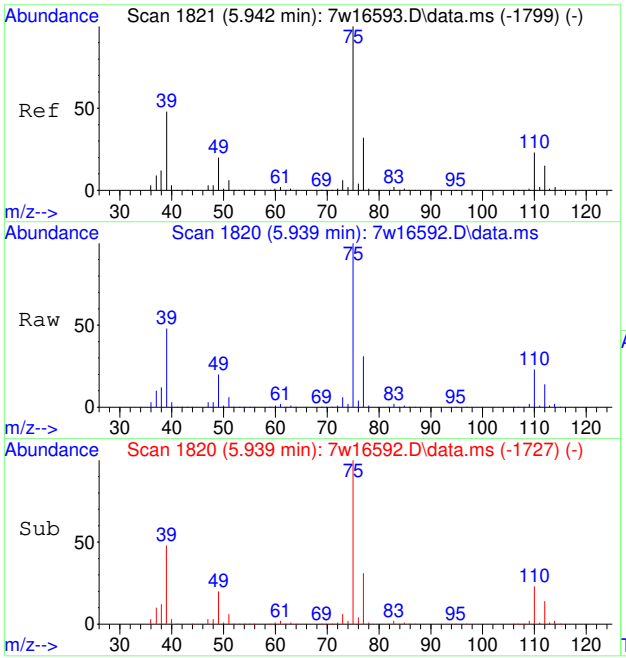


#64
METHYL ISOBUTYL KETONE
Concen: 35.65 PPBV
RT: 6.042 min Scan# 1852
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 535813

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.6	23.2	43.2
85	38.0	26.5	49.3

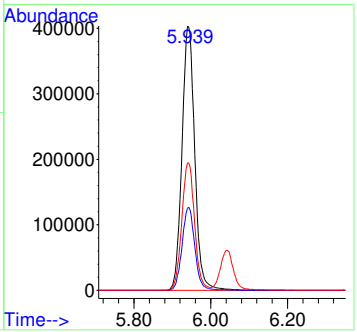


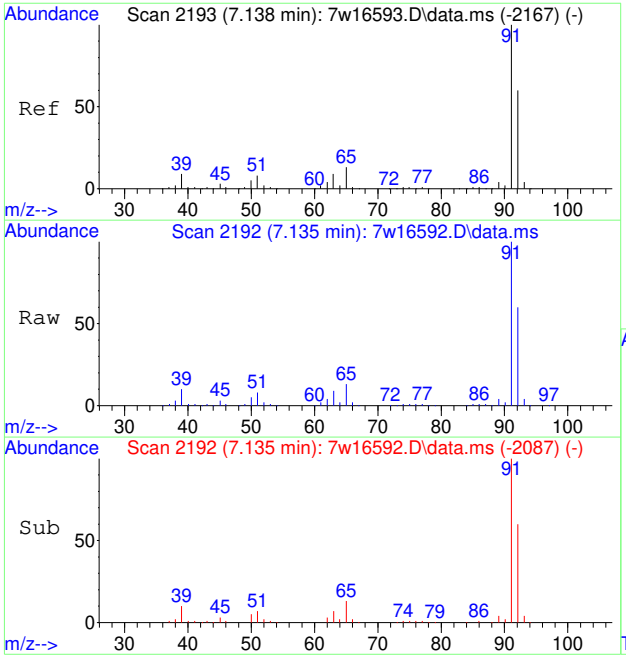


#65
CIS-1,3-DICHLOROPROPENE
Concen: 41.03 PPBV
RT: 5.939 min Scan# 1820
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 931150

Ion	Ratio	Lower	Upper
75	100		
77	31.5	22.0	41.0
39	48.3	35.7	66.3

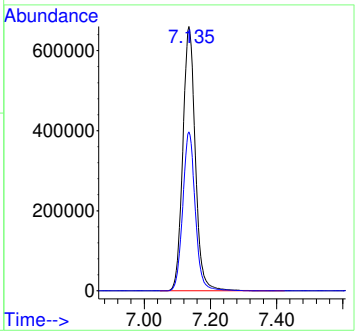


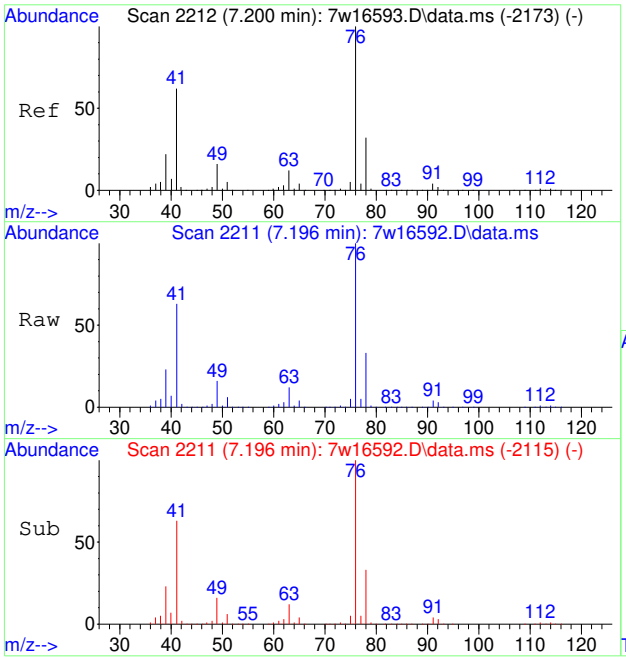


#66
TOLUENE
Concen: 39.79 PPBV
RT: 7.135 min Scan# 2192
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1737506

Ion	Ratio	Lower	Upper
91	100		
92	60.0	30.3	90.3

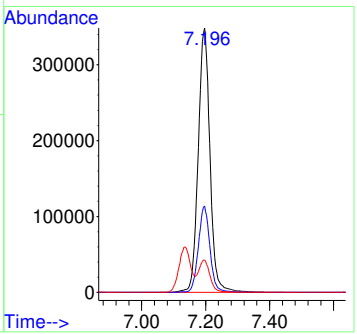


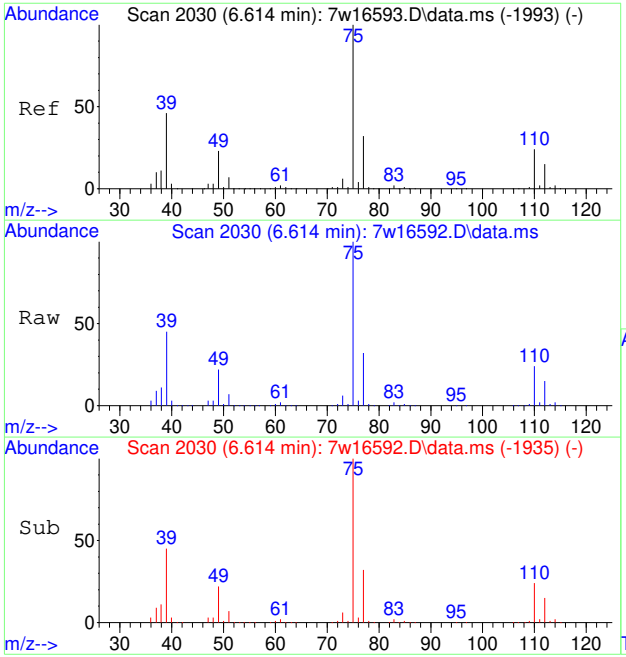


#67
1,3-DICHLOROPROPANE
Concen: 40.85 PPBV
RT: 7.196 min Scan# 2211
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 76 Resp: 888887

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.1	8.3	15.5

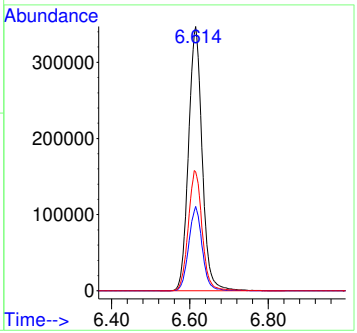


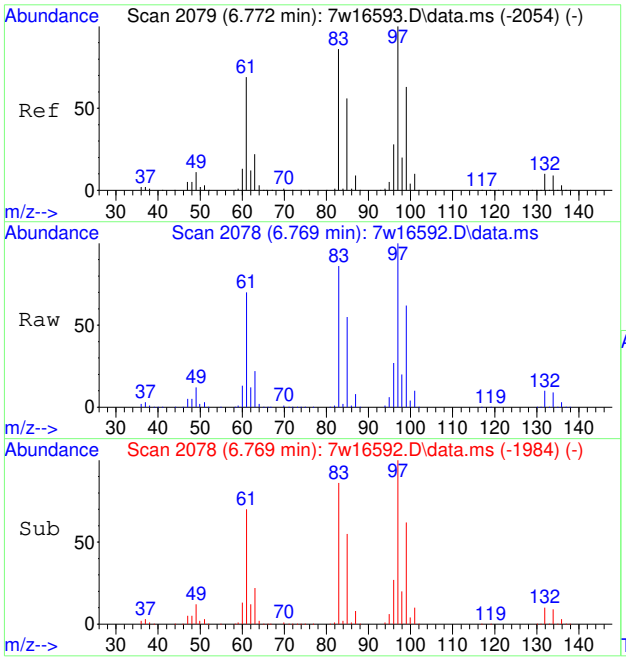


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 41.75 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 837419

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	46.3	33.9	63.0

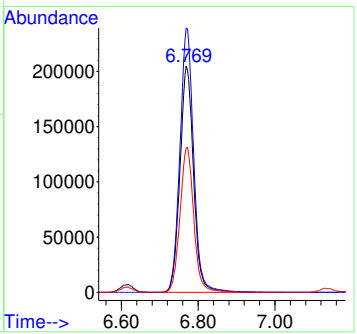


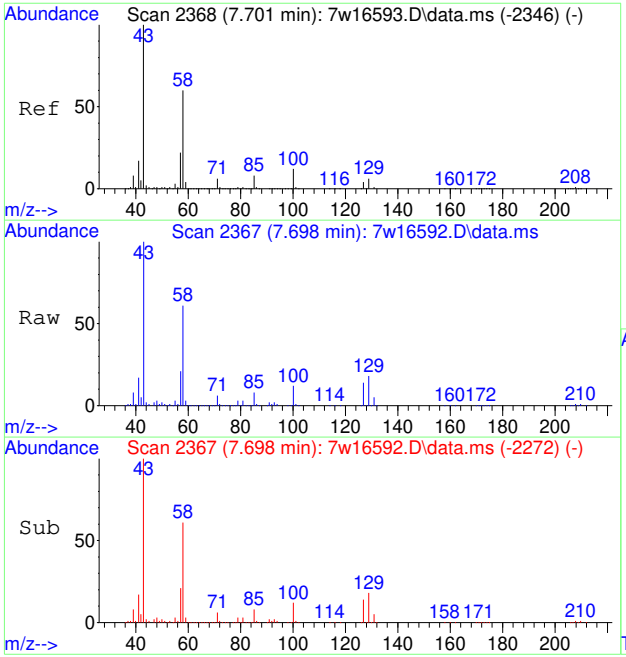


#69
1,1,2-TRICHLOROETHANE
Concen: 41.21 PPBV
RT: 6.769 min Scan# 2078
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 506821

Ion	Ratio	Lower	Upper
83	100		
97	117.2	81.2	150.8
85	64.6	45.1	83.7

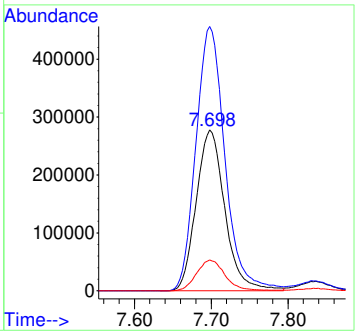


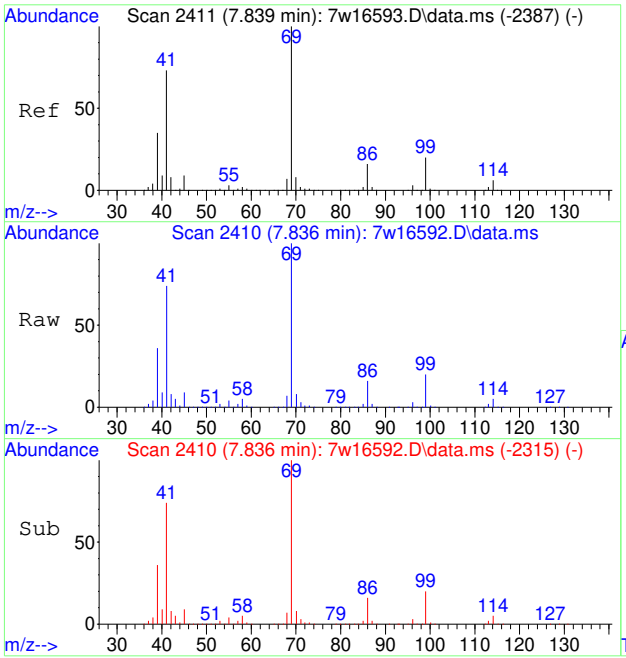


#70
2-HEXANONE
Concen: 33.68 PPBV
RT: 7.698 min Scan# 2367
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 58 Resp: 721391

Ion	Ratio	Lower	Upper
58	100		
43	166.0	118.6	220.2
100	19.1	13.0	24.2

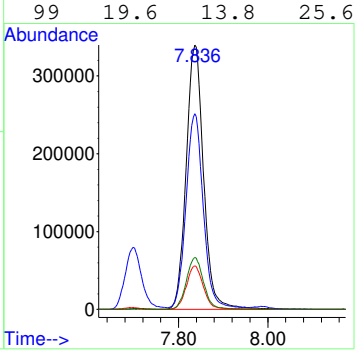


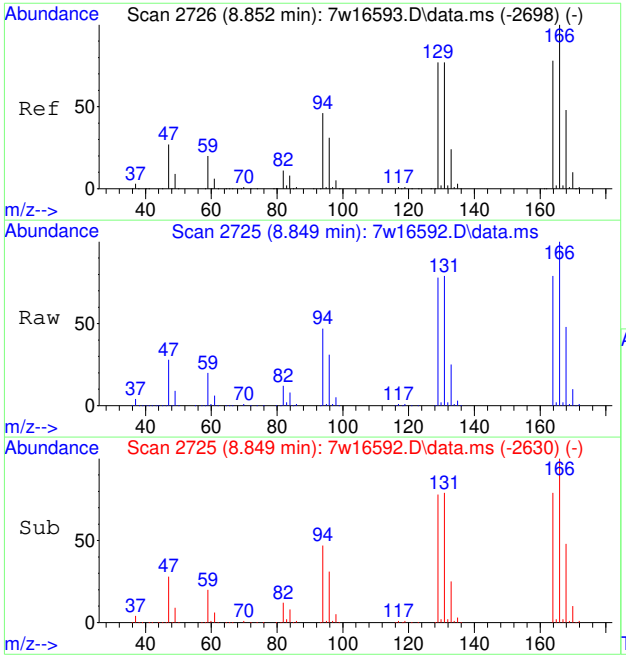


#71
ETHYL METHACRYLATE
Concen: 40.41 PPBV
RT: 7.836 min Scan# 2410
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 69 Resp: 919855

Ion	Ratio	Lower	Upper
69	100		
41	72.3	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

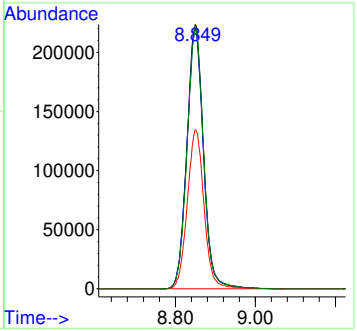


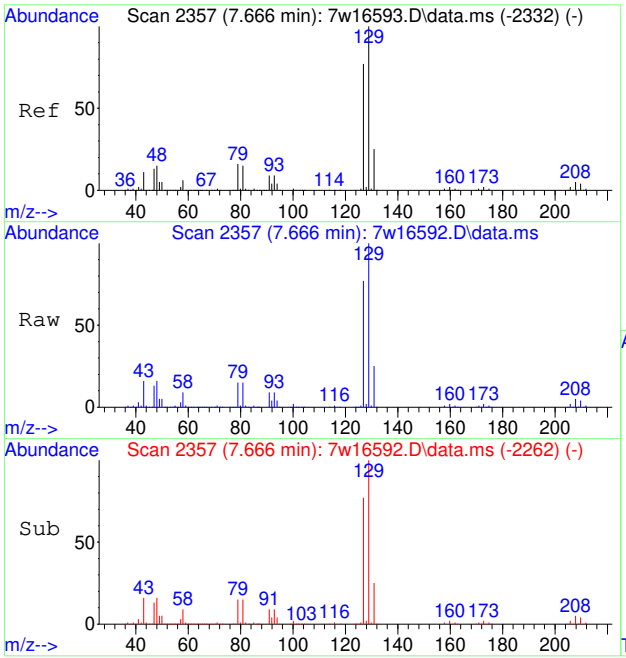


#72
TETRACHLOROETHENE
Concen: 40.75 PPBV
RT: 8.849 min Scan# 2725
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:164 Resp: 647021

Ion	Ratio	Lower	Upper
164	100		
129	98.1	69.6	129.2
168	60.5	42.5	78.9
131	98.3	69.4	129.0

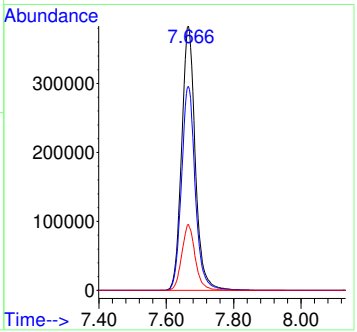


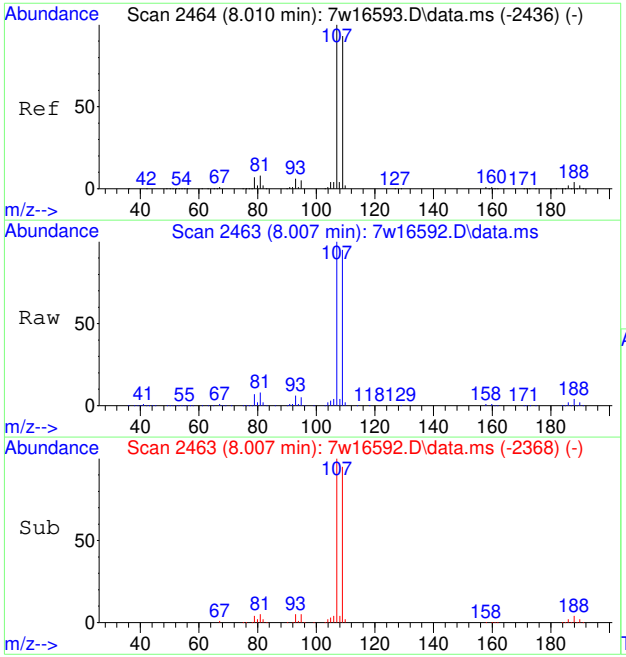


#73
DIBROMOCHLOROMETHANE
Concen: 44.36 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:129 Resp: 1078202

Ion	Ratio	Lower	Upper
129	100		
127	77.9	54.7	101.7
131	24.7	17.4	32.4

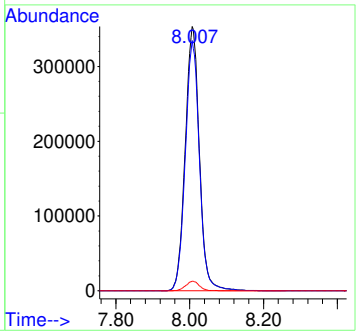


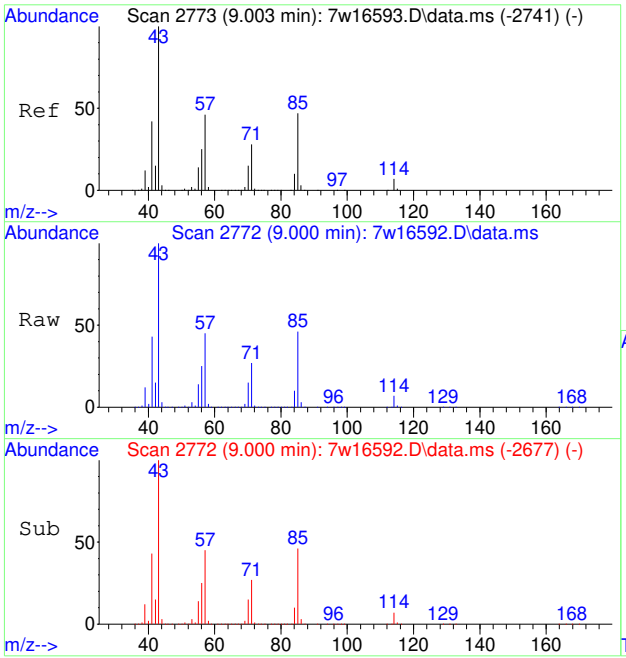


#74
1,2-DIBROMOETHANE
Concen: 41.96 PPBV
RT: 8.007 min Scan# 2463
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:107 Resp: 940297

Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.1	122.8
188	3.6	2.5	4.6

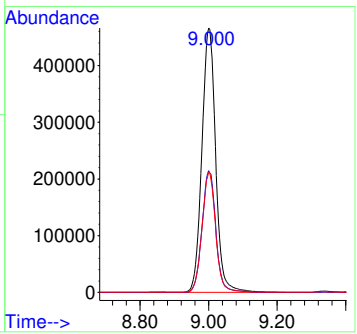


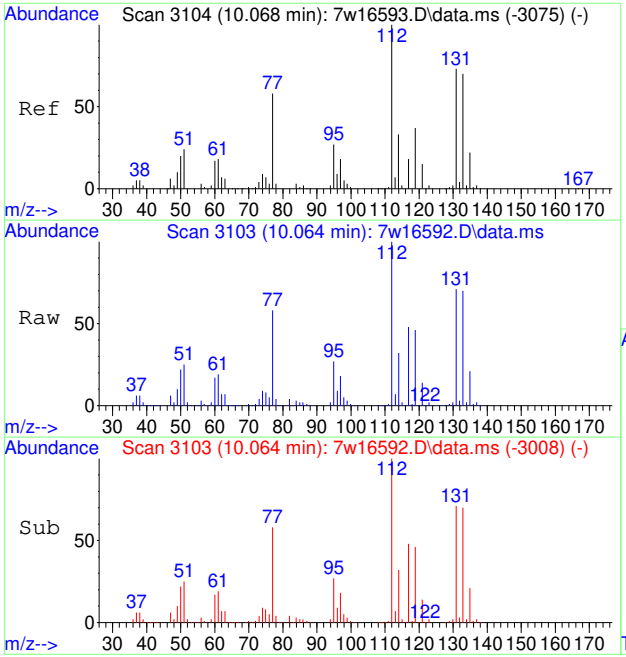


#75
OCTANE
Concen: 39.19 PPBV
RT: 9.000 min Scan# 2772
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1299991

Ion	Ratio	Lower	Upper
43	100		
85	46.1	31.8	59.0
57	45.0	31.4	58.2

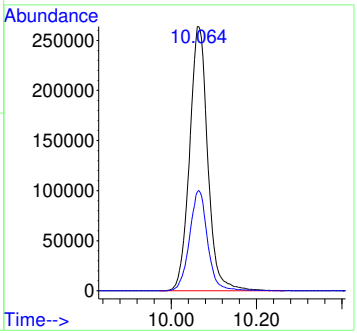


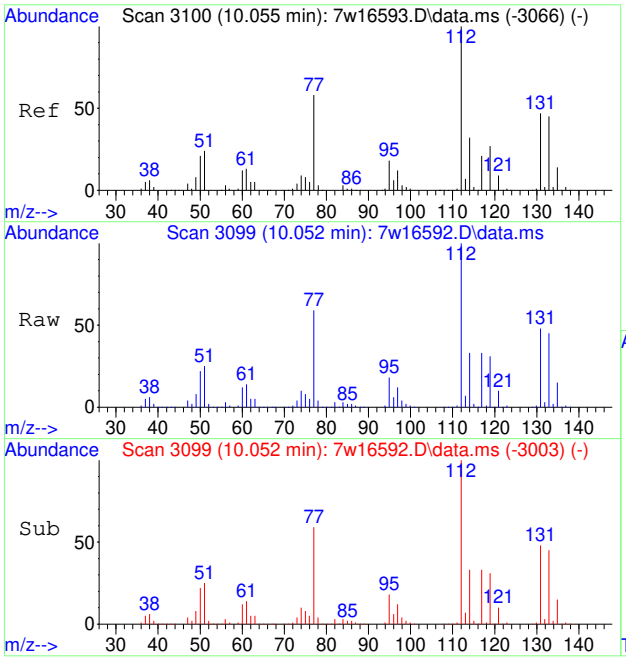


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 43.93 PPBV
RT: 10.064 min Scan# 3103
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:131 Resp: 780177

Ion	Ratio	Lower	Upper
131	100		
95	37.8	26.5	49.1

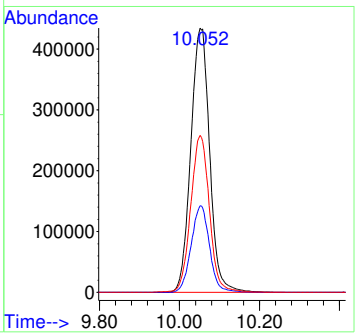


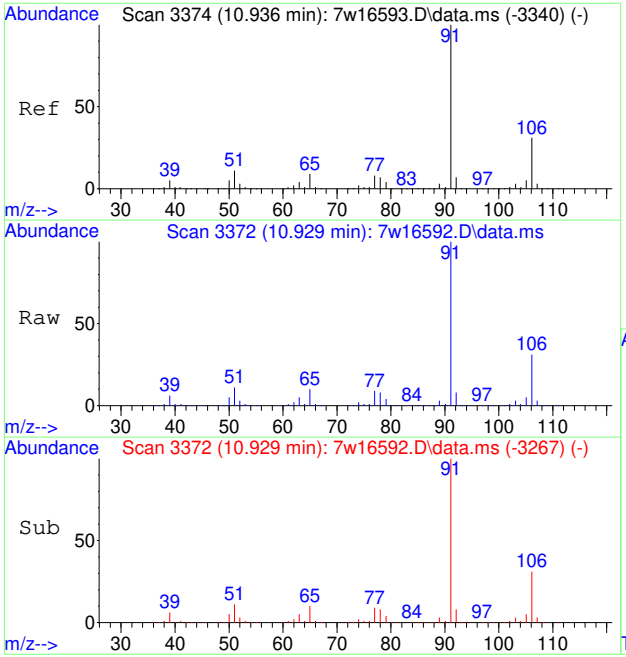


#78
CHLOROBENZENE
Concen: 41.32 PPBV
RT: 10.052 min Scan# 3099
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:112 Resp: 1423127

Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	59.0	42.1	78.1

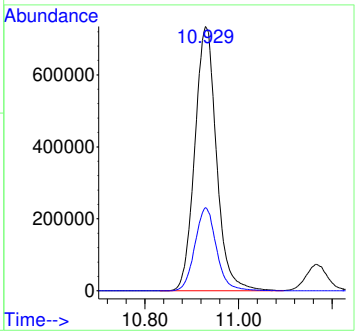


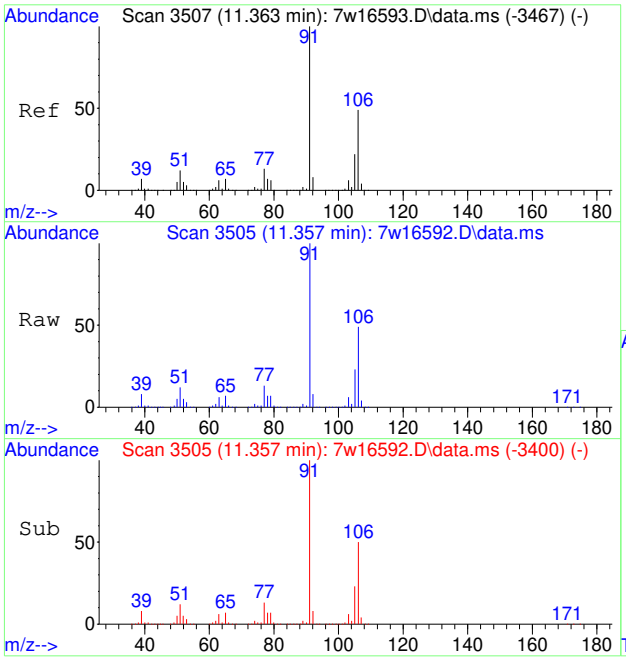


#79
ETHYLBENZENE
Concen: 41.92 PPBV
RT: 10.929 min Scan# 3372
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2363041

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

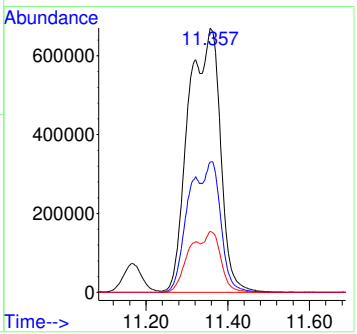


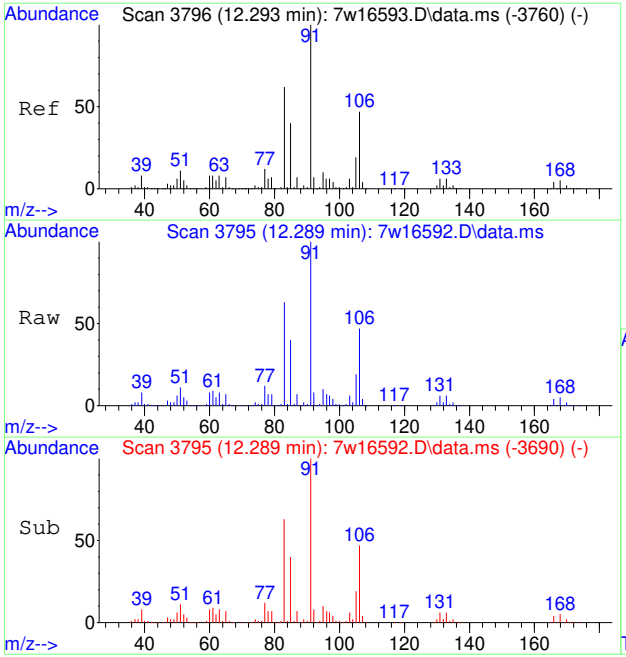


#80
M,P-XYLENE
Concen: 78.82 PPBV
RT: 11.357 min Scan# 3505
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 3630117

Ion	Ratio	Lower	Upper
91	100		
106	25.9	0.0	56.1
105	13.4	0.0	42.1

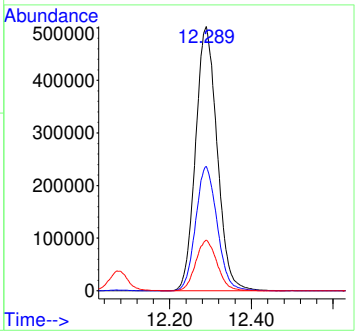


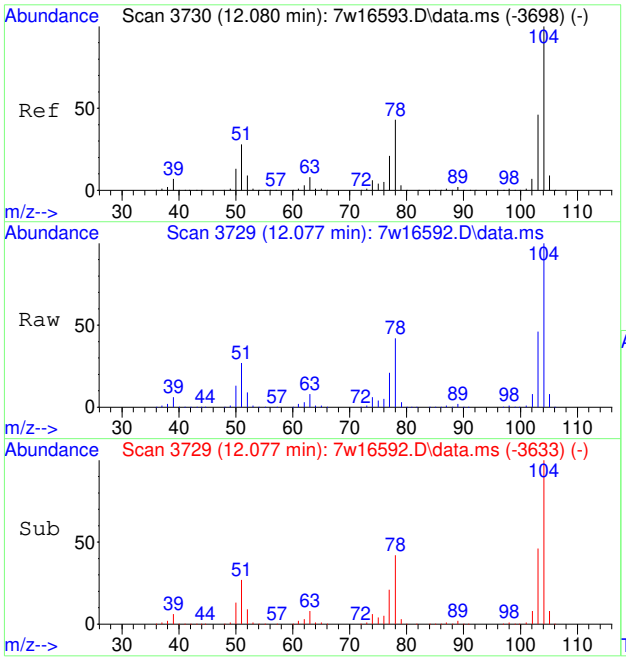


#81
O-XYLENE
Concen: 41.40 PPBV
RT: 12.289 min Scan# 3795
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 1842699

Ion	Ratio	Lower	Upper
91	100		
106	47.1	31.8	59.0
105	19.2	13.0	24.2

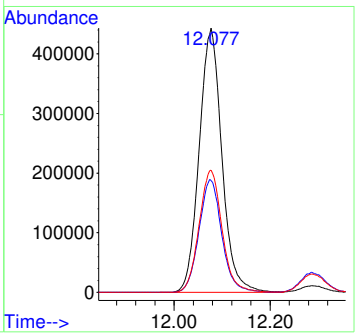


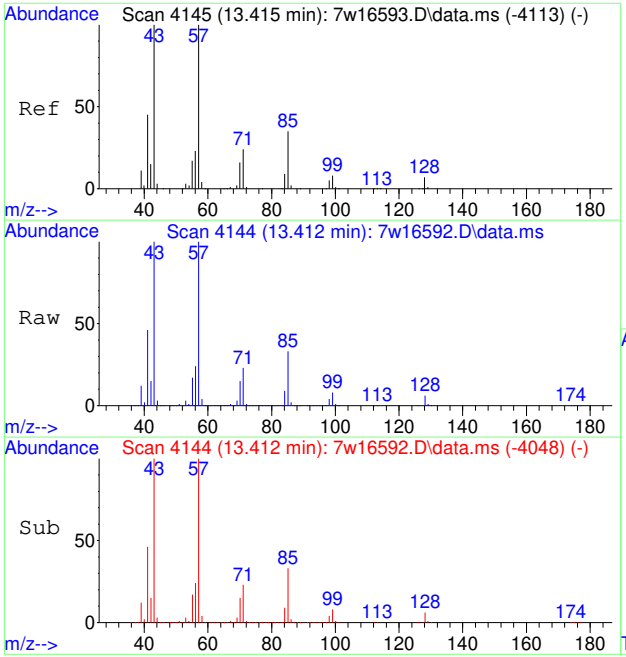


#82
STYRENE
Concen: 44.73 PPBV
RT: 12.077 min Scan# 3729
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:104 Resp: 1452853

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.8	32.8	61.0

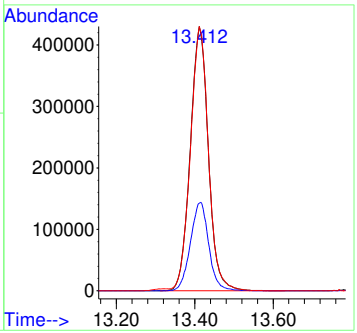


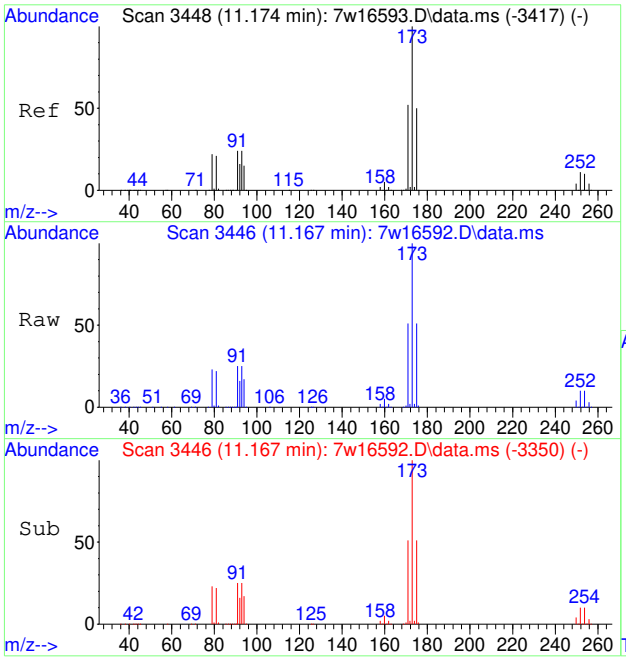


#83
NONANE
Concen: 39.45 PPBV
RT: 13.412 min Scan# 4144
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 43 Resp: 1380586

Ion	Ratio	Lower	Upper
43	100		
85	33.8	23.4	43.4
57	100.5	69.2	128.6

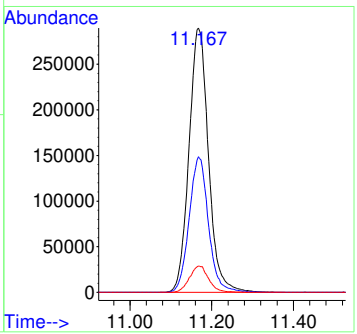


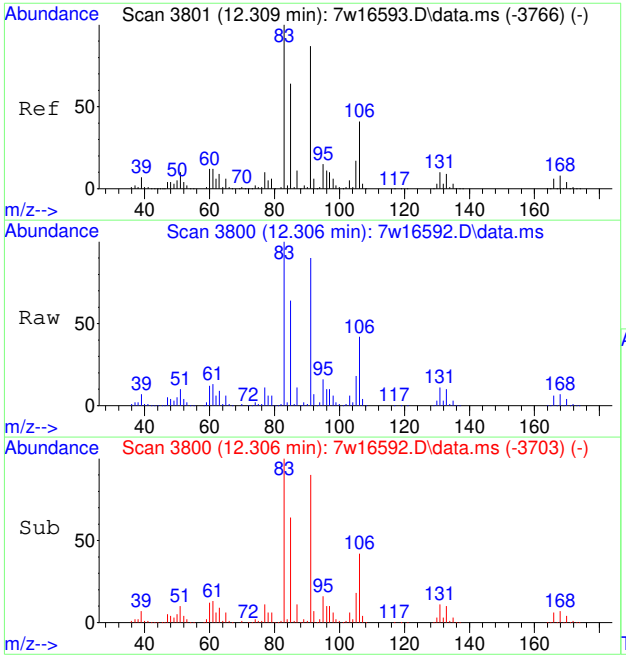


#84
BROMOFORM
Concen: 47.95 PPBV
RT: 11.167 min Scan# 3446
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:173 Resp: 961757

Ion	Ratio	Lower	Upper
173	100		
175	50.8	35.1	65.1
254	9.9	6.7	12.5

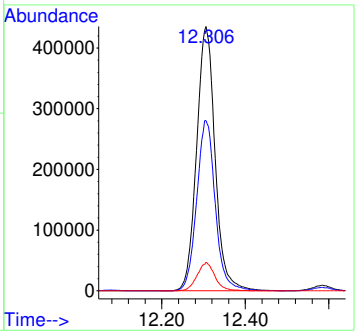


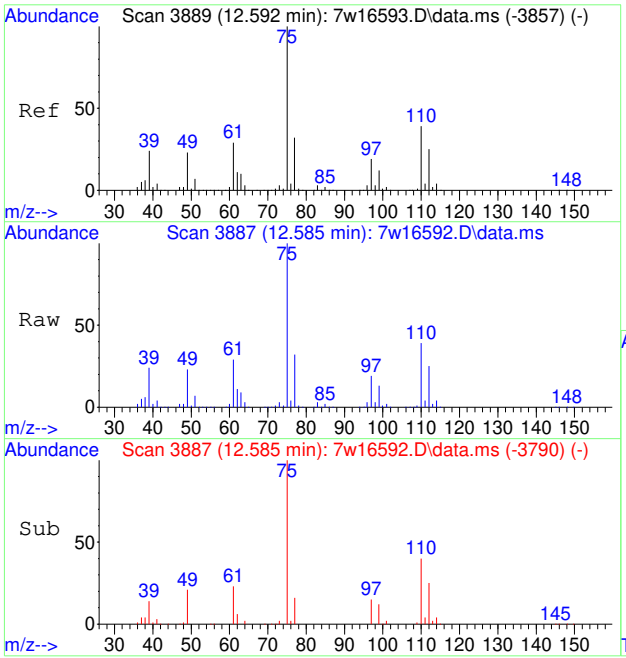


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 42.27 PPBV
RT: 12.306 min Scan# 3800
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 83 Resp: 1339122

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.4	7.3	13.5

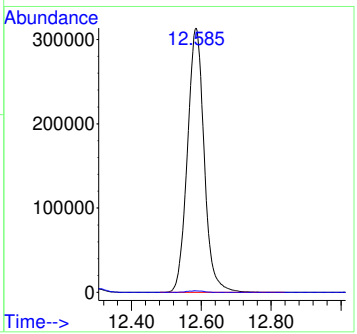


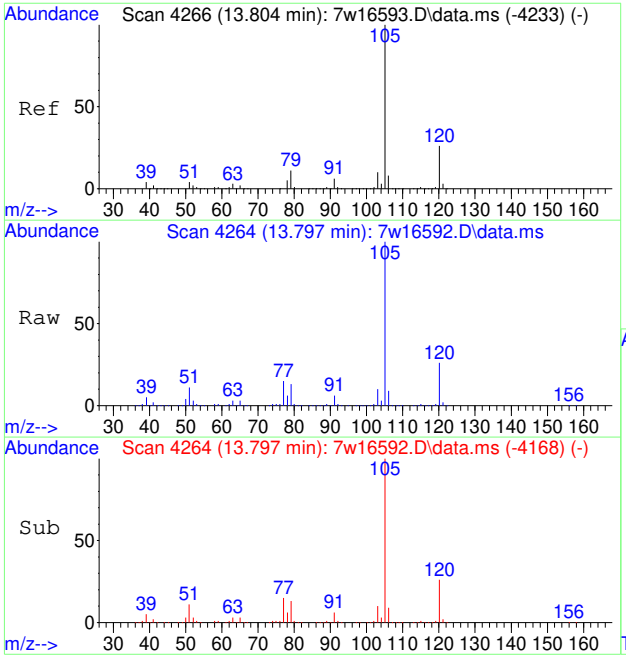


#86
1,2,3-TRICHLOROPROPANE
Concen: 42.19 PPBV
RT: 12.585 min Scan# 3887
Delta R.T. 0.013 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 75 Resp: 1047163

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

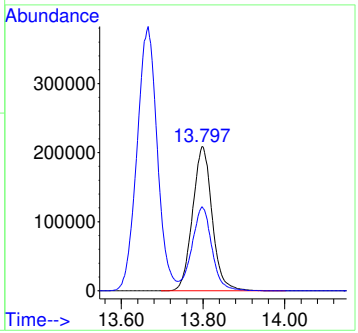


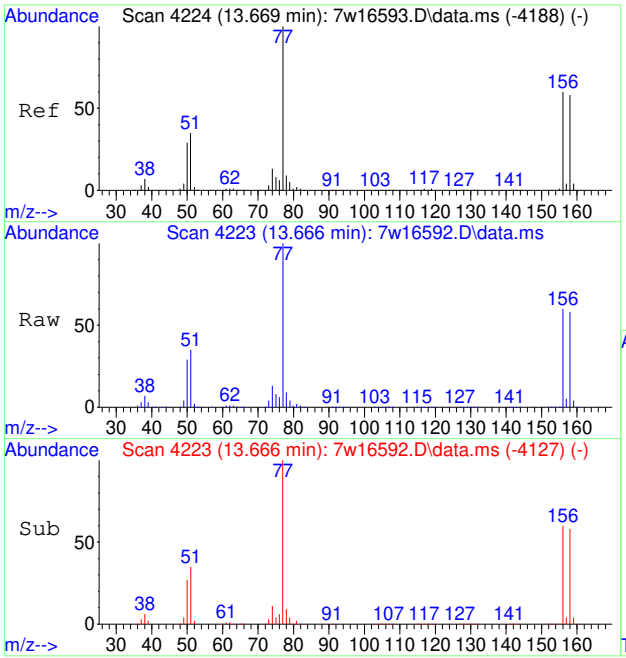


#88
ISOPROPYLBENZENE
Concen: 41.27 PPBV
RT: 13.797 min Scan# 4264
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 695388

Ion	Ratio	Lower	Upper
120	100		
77	59.7	42.5	78.9

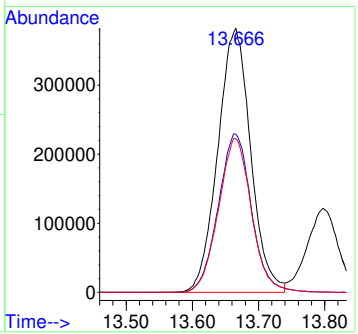


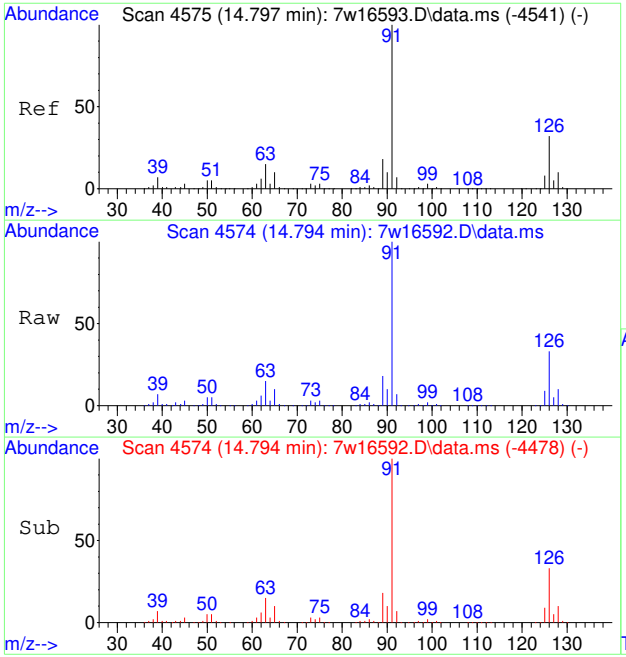


#89
BROMOBENZENE
Concen: 40.55 PPBV
RT: 13.666 min Scan# 4223
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 77 Resp: 1318537

Ion	Ratio	Lower	Upper
77	100		
156	60.7	42.4	78.8
158	58.7	40.9	76.0

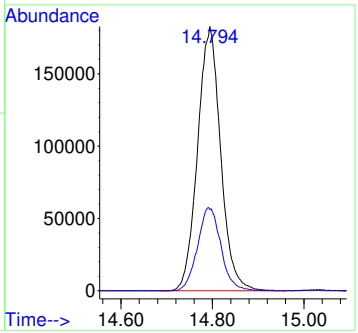


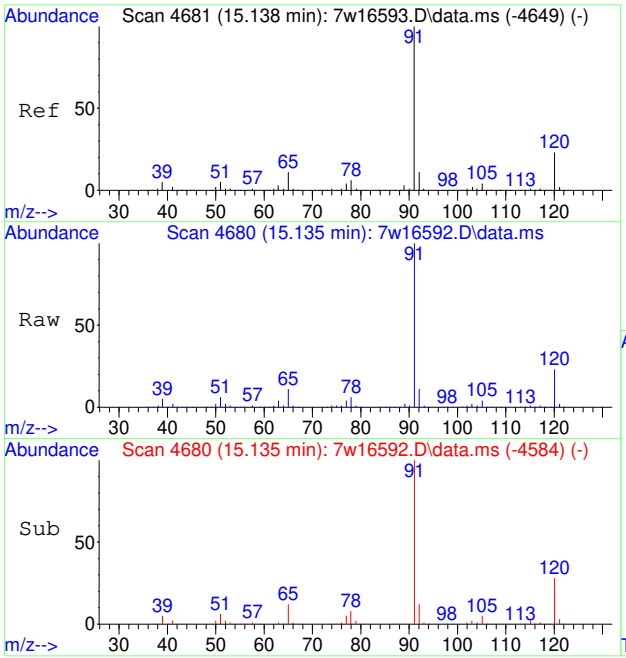


#90
2-CHLOROTOLUENE
Concen: 41.17 PPBV
RT: 14.794 min Scan# 4574
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:126 Resp: 639043

Ion	Ratio	Lower	Upper
126	100		
128	32.0	22.5	41.7

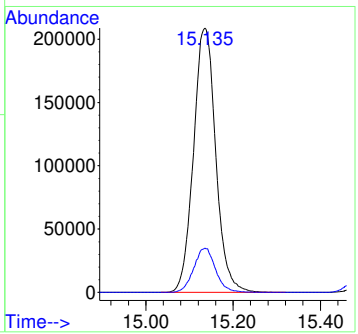


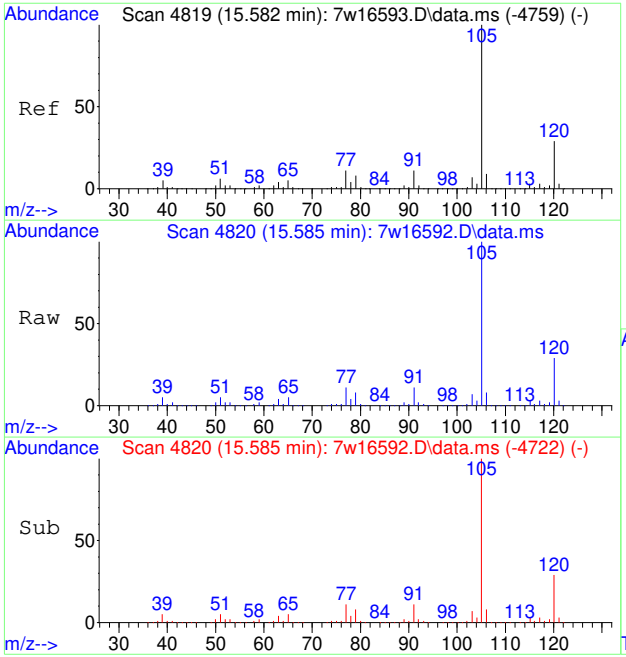


#91
N-PROPYLBENZENE
Concen: 42.04 PPBV
RT: 15.135 min Scan# 4680
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:120 Resp: 740280

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

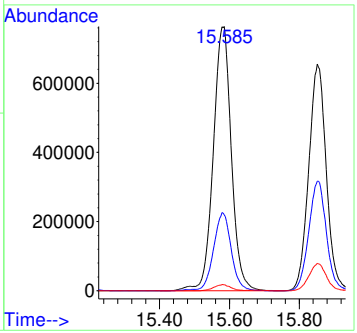


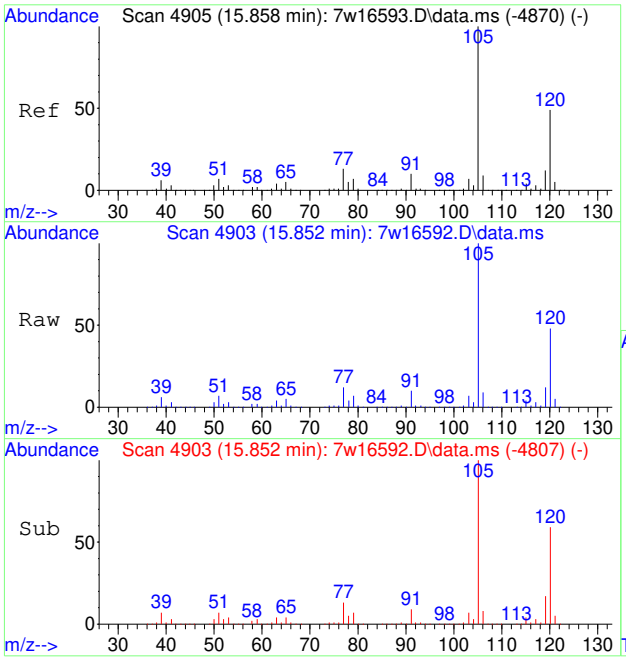


#92
4-ETHYLTOLUENE
Concen: 42.04 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2747294

Ion	Ratio	Lower	Upper
105	100		
120	29.2	20.7	38.5
119	2.2	1.6	3.0

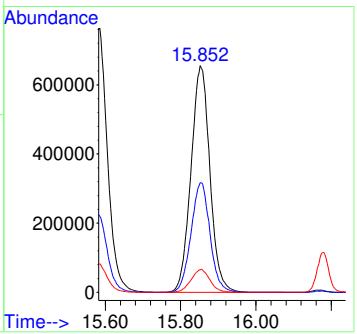


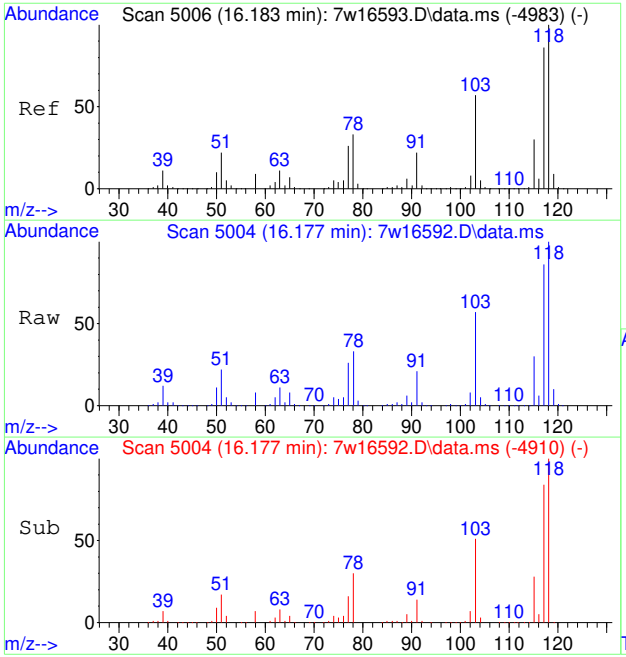


#93
1,3,5-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 15.852 min Scan# 4903
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2286498

Ion	Ratio	Lower	Upper
105	100		
120	48.6	34.0	63.2
91	10.1	7.3	13.7

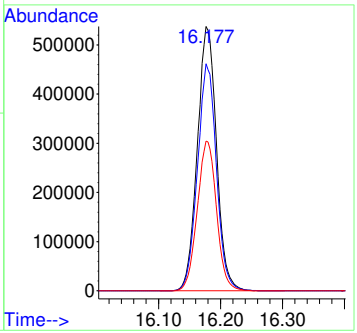


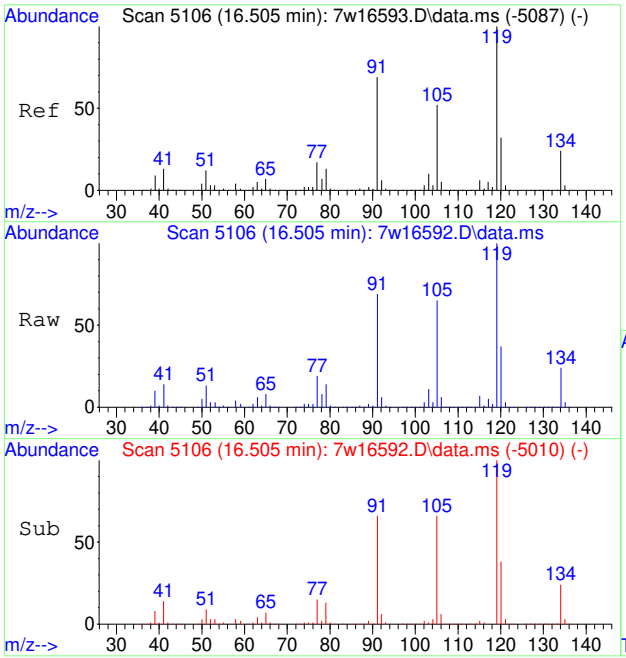


#94
ALPHA-METHYLSTYRENE
Concen: 43.69 PPBV
RT: 16.177 min Scan# 5004
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:118 Resp: 1155488

Ion	Ratio	Lower	Upper
118	100		
117	85.1	59.6	110.8
103	56.9	40.3	74.9

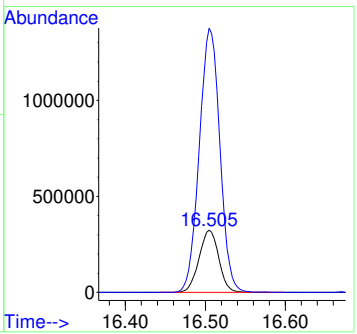


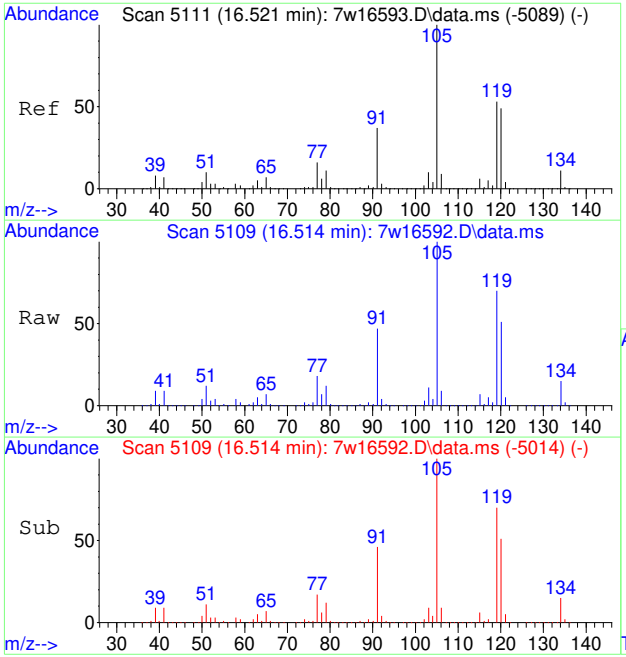


#95
TERT-BUTYLBENZENE
Concen: 41.12 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 554595

Ion	Ratio	Lower	Upper
134	100		
119	444.1	311.3	578.1

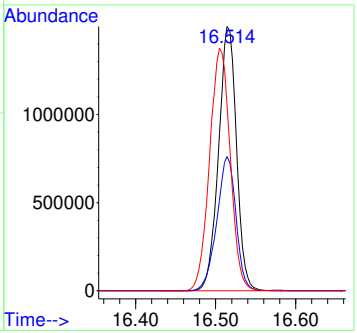


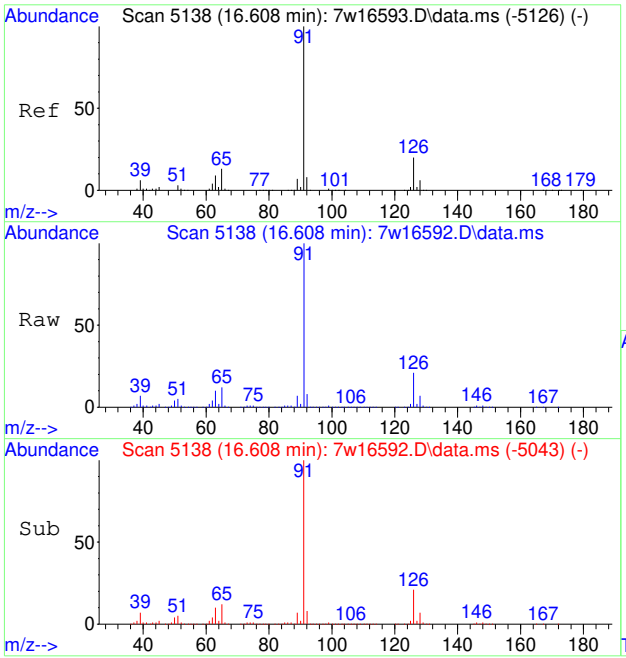


#96
1,2,4-TRIMETHYLBENZENE
Concen: 43.35 PPBV
RT: 16.514 min Scan# 5109
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2336862

Ion	Ratio	Lower	Upper
105	100		
120	54.3	37.9	70.5
119	105.4	74.3	137.9

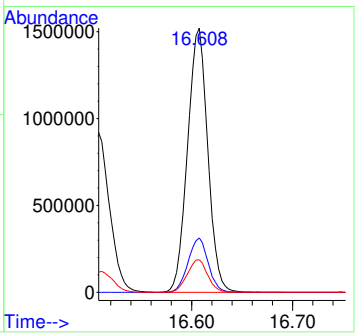


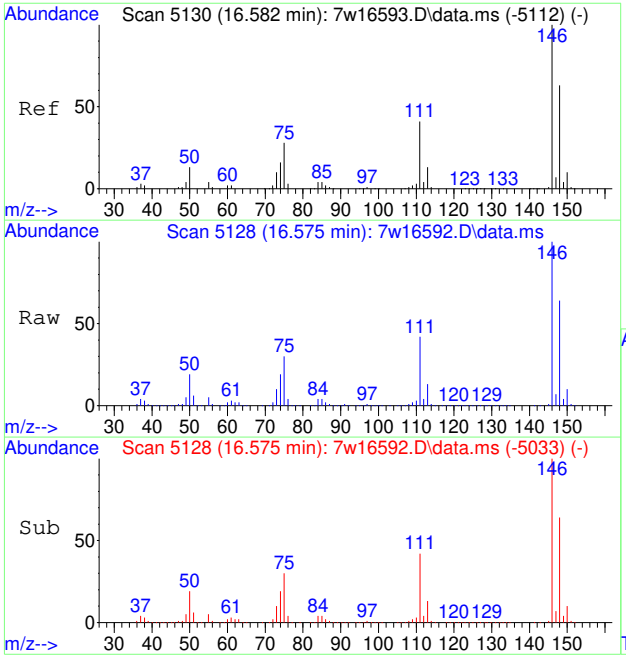


#97
BENZYL CHLORIDE
Concen: 52.85 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion: 91 Resp: 2115310

Ion	Ratio	Lower	Upper
91	100		
126	20.5	14.3	26.5
65	12.5	9.2	17.0

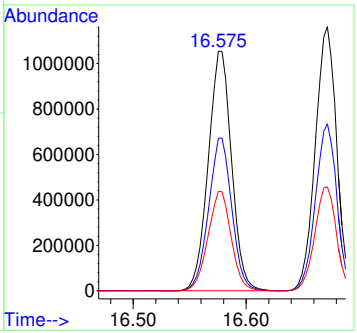


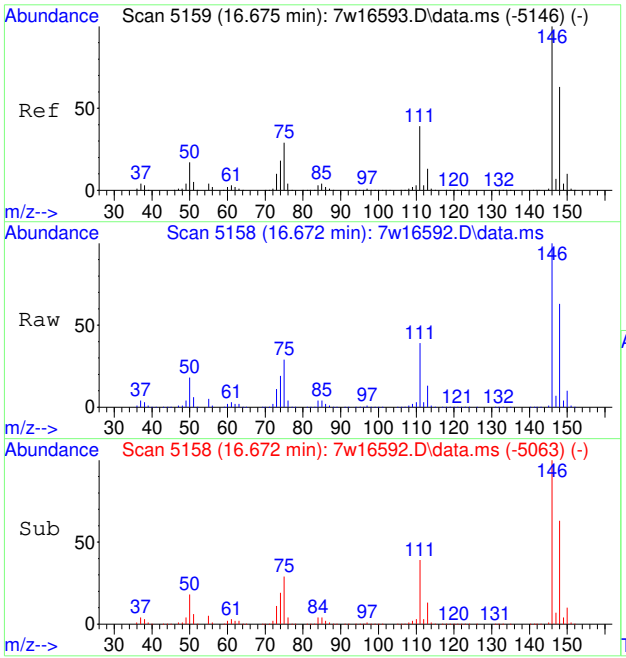


#98
M-DICHLOROBENZENE
Concen: 40.35 PPBV
RT: 16.575 min Scan# 5128
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1509487

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.6	82.8
111	41.3	29.3	54.3

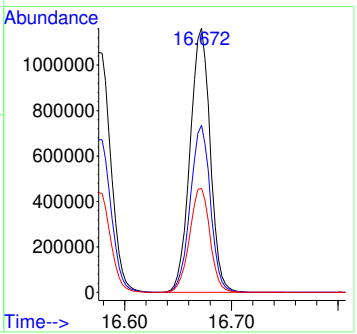


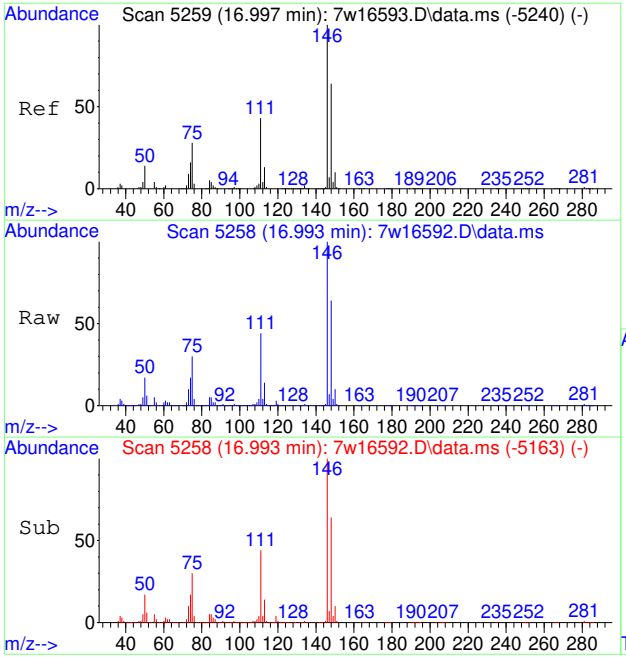


#99
P-DICHLOROBENZENE
Concen: 41.45 PPBV
RT: 16.672 min Scan# 5158
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1527061

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.2	82.2
111	39.9	28.0	52.0

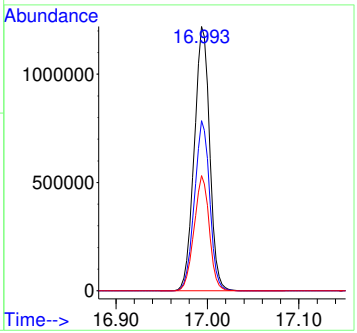


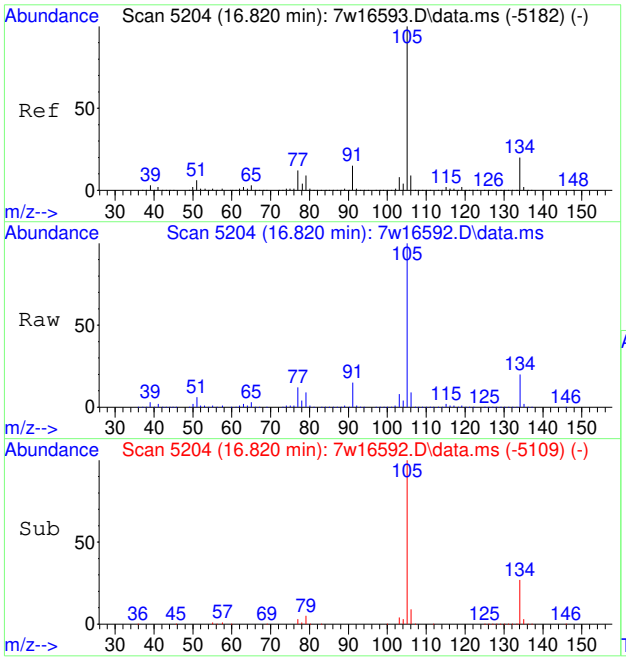


#100
O-DICHLOROBENZENE
Concen: 41.29 PPBV
RT: 16.993 min Scan# 5258
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:146 Resp: 1428015

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.2	82.2
111	42.9	30.4	56.4

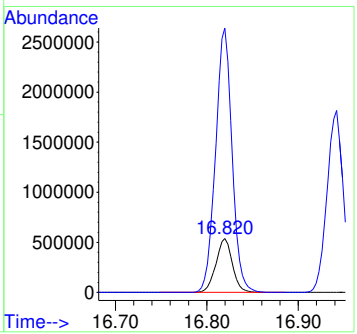


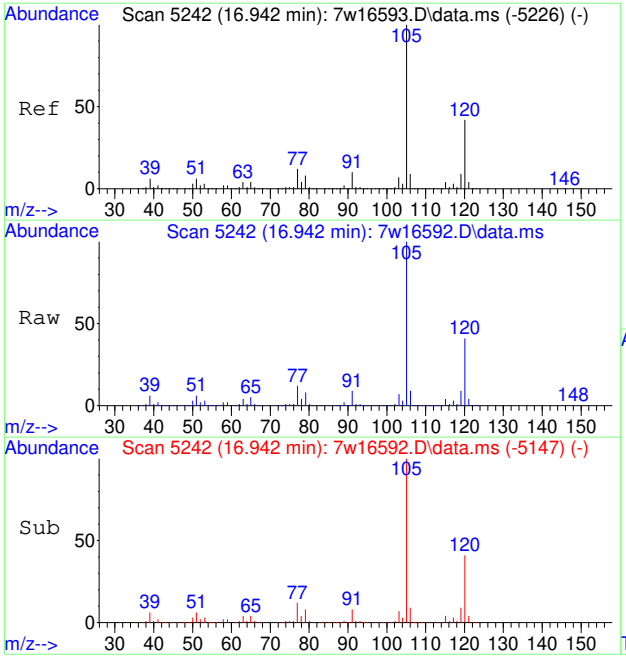


#101
SEC-BUTYLBENZENE
Concen: 42.40 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 675130

Ion	Ratio	Lower	Upper
134	100		
105	492.7	344.8	640.3

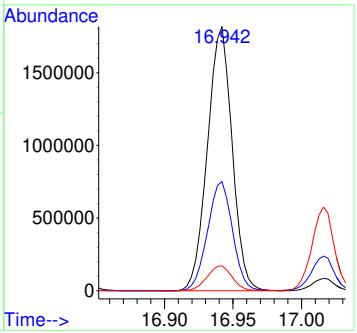


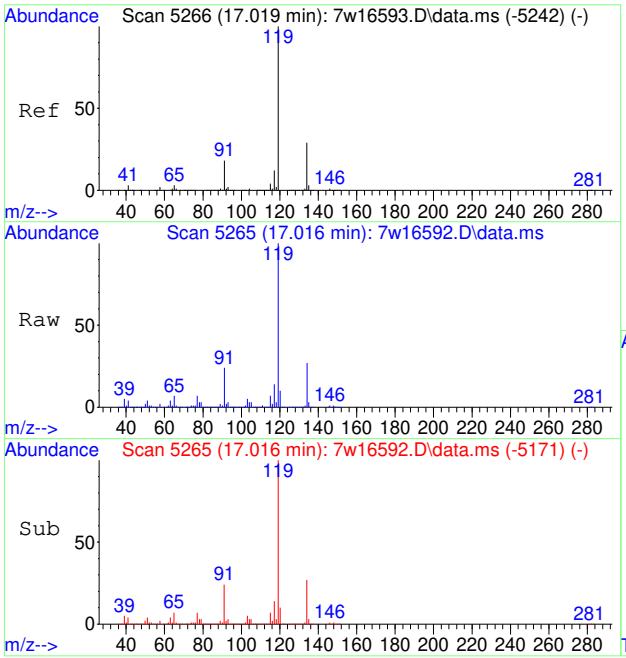


#102
1,2,3-TRIMETHYLBENZENE
Concen: 41.87 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:105 Resp: 2270987

Ion	Ratio	Lower	Upper
105	100		
120	41.9	29.3	54.3
91	9.8	7.0	13.0

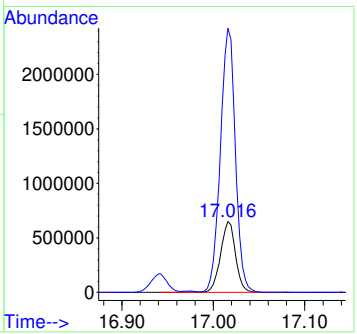


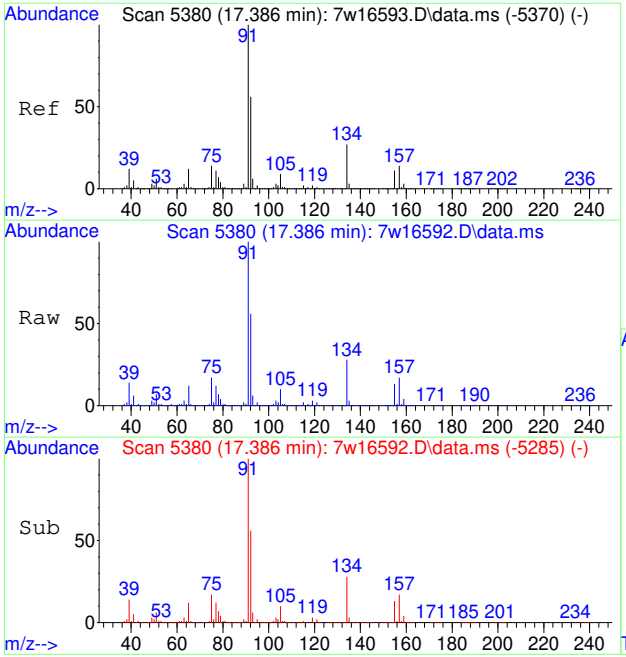


#103
P-ISOPROPYLTOLUENE
Concen: 42.05 PPBV
RT: 17.016 min Scan# 5265
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 742541

Ion	Ratio	Lower	Upper
134	100		
119	374.5	261.4	485.4

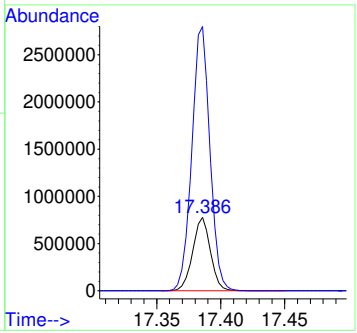


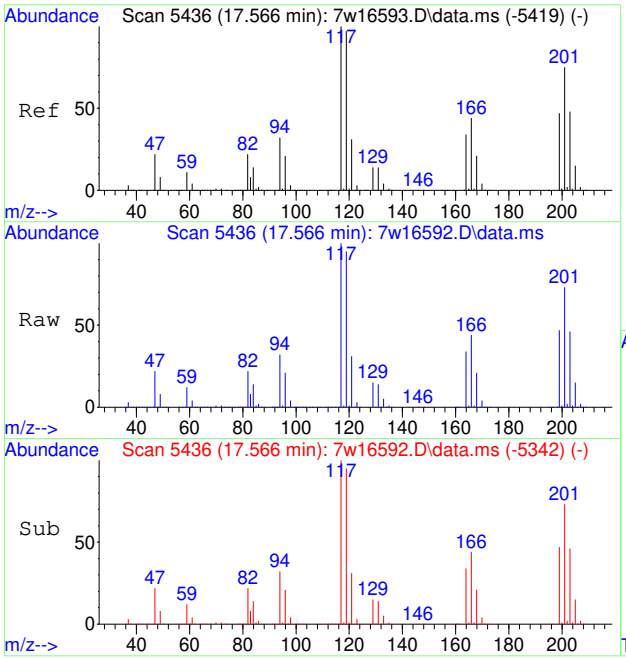


#104
N-BUTYLBENZENE
Concen: 45.09 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:134 Resp: 743410

Ion	Ratio	Lower	Upper
134	100		
91	369.5	261.0	484.8

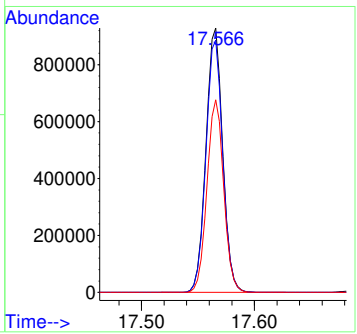


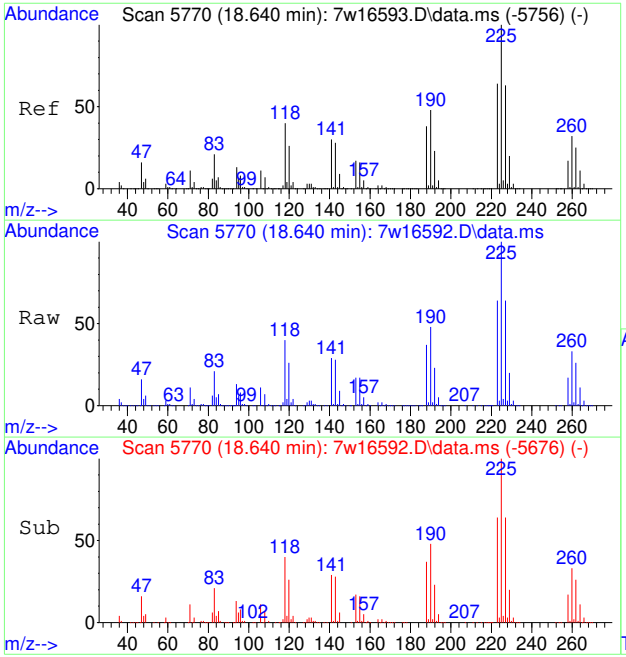


#105
HEXACHLOROETHANE
Concen: 47.76 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:117 Resp: 951757

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	72.8	49.8	92.6

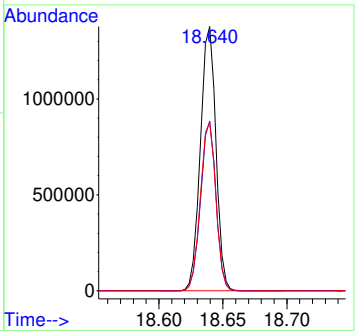


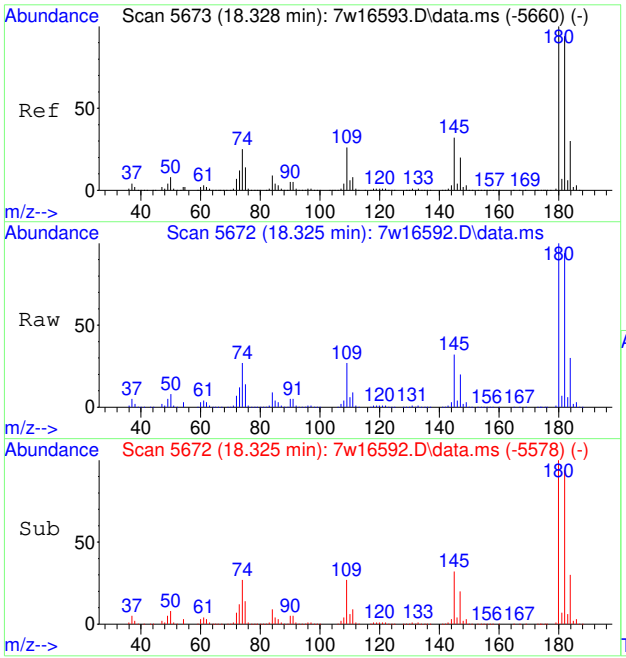


#106
HEXACHLOROBUTADIENE
Concen: 48.46 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:225 Resp: 1162376

Ion	Ratio	Lower	Upper
225	100		
227	63.3	44.6	82.8
223	63.6	44.6	82.8

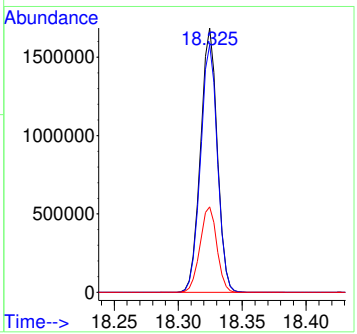


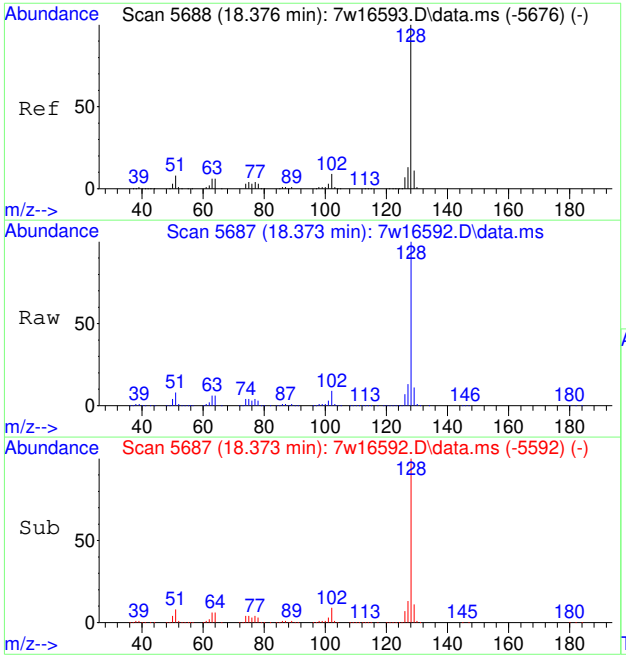


#107
1,2,4-TRICHLOROBENZENE
Concen: 56.96 PPBV
RT: 18.325 min Scan# 5672
Delta R.T. 0.003 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:180 Resp: 1534367

Ion	Ratio	Lower	Upper
180	100		
182	94.5	66.6	123.6
145	32.7	22.5	41.9

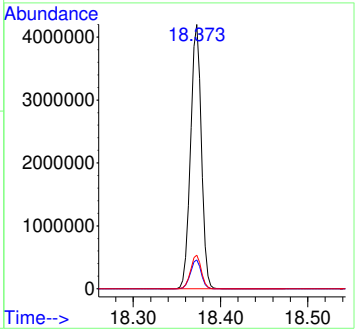


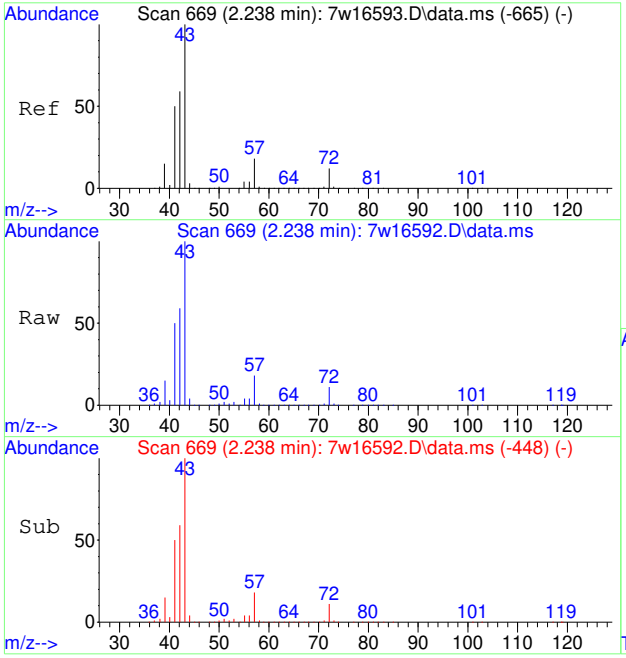


#108
NAPHTHALENE
Concen: 60.99 PPBV
RT: 18.373 min Scan# 5687
Delta R.T. 0.007 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:128 Resp: 3606459

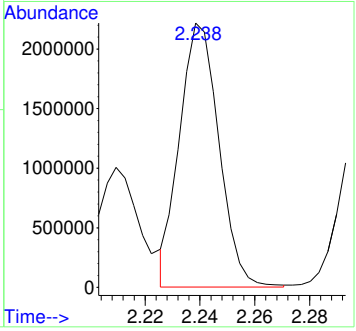
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.7	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 32.90 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16592.D
Acq: 7 Aug 2025 2:30 pm

Tgt Ion:TIC Resp: 2205824



Manual Integration Approval Summary

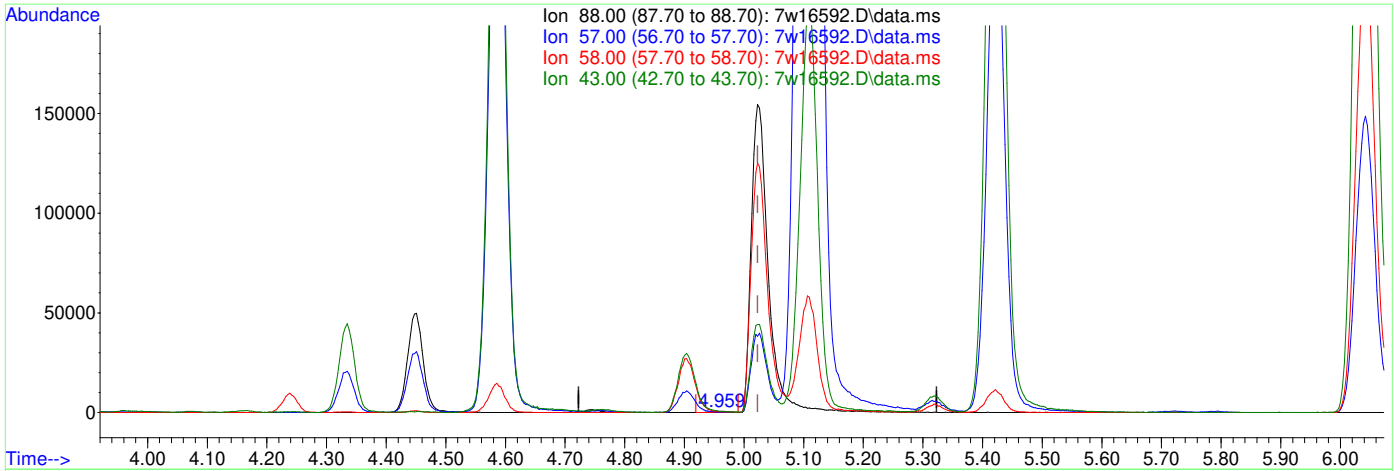
Sample Number: V7W577-IC577
Lab FileID: 7W16592.D
Injection Time: 08/07/25 14:30
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

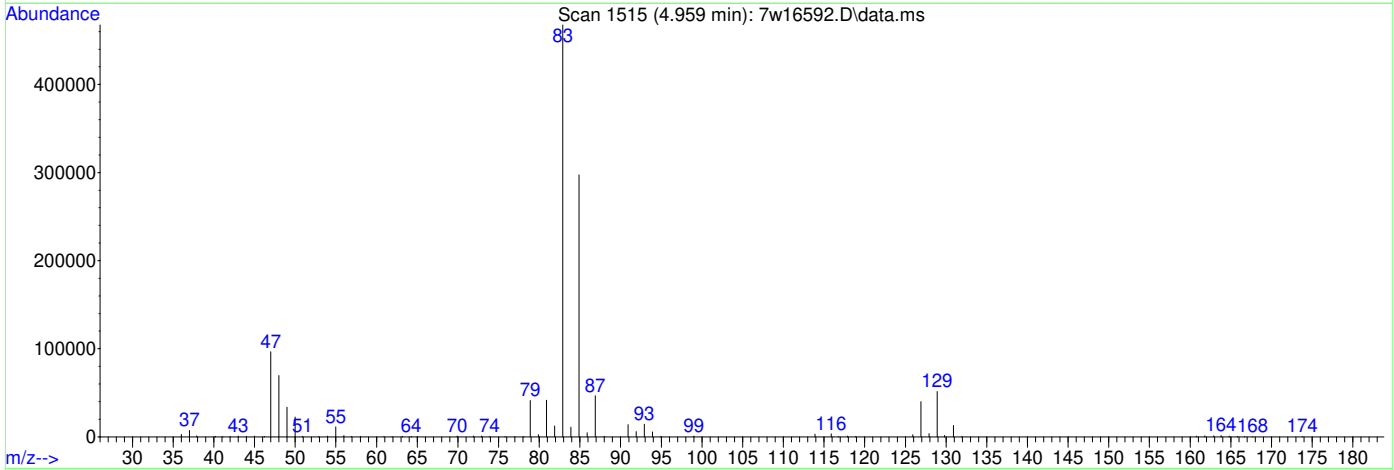
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.02	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

4.959min (-0.064) 0.14PPBV

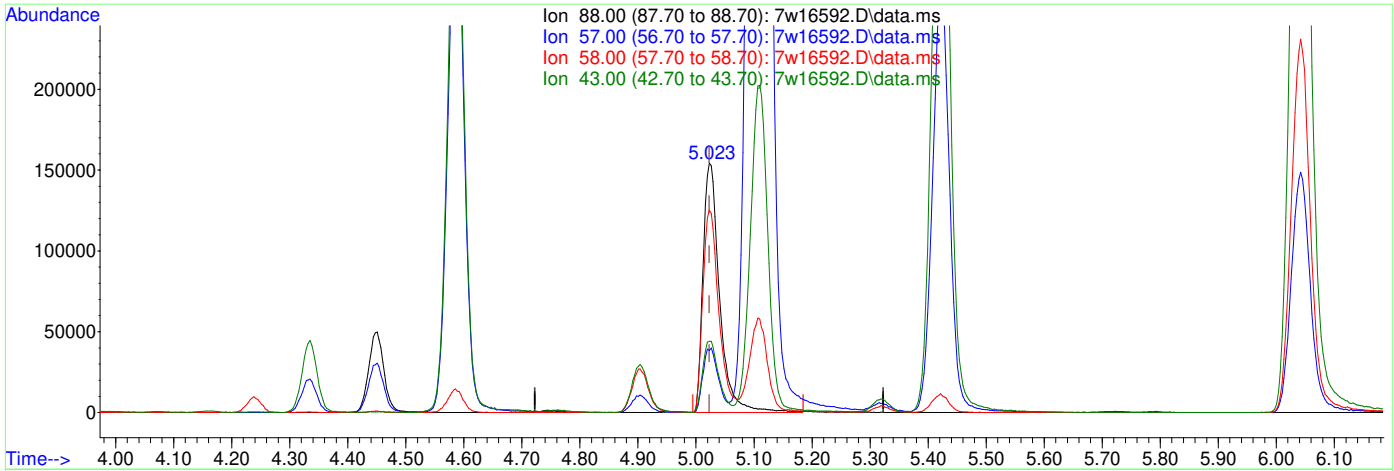
response 1156

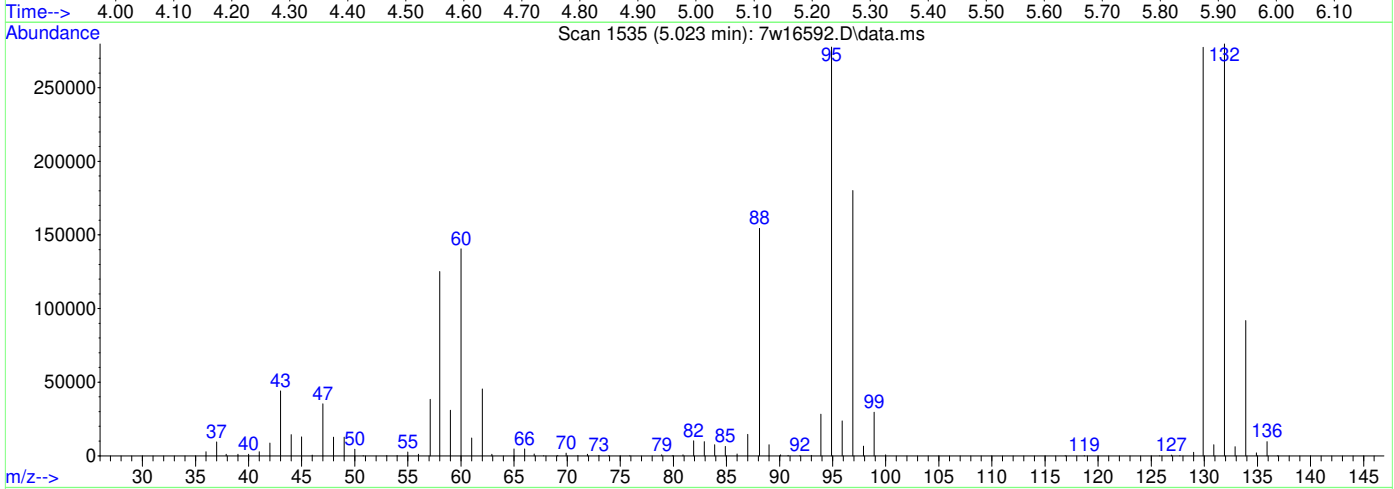
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:56:26 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(61) 1,4-DIOXANE (T)

5.023min (+0.000) 38.33PPBV m

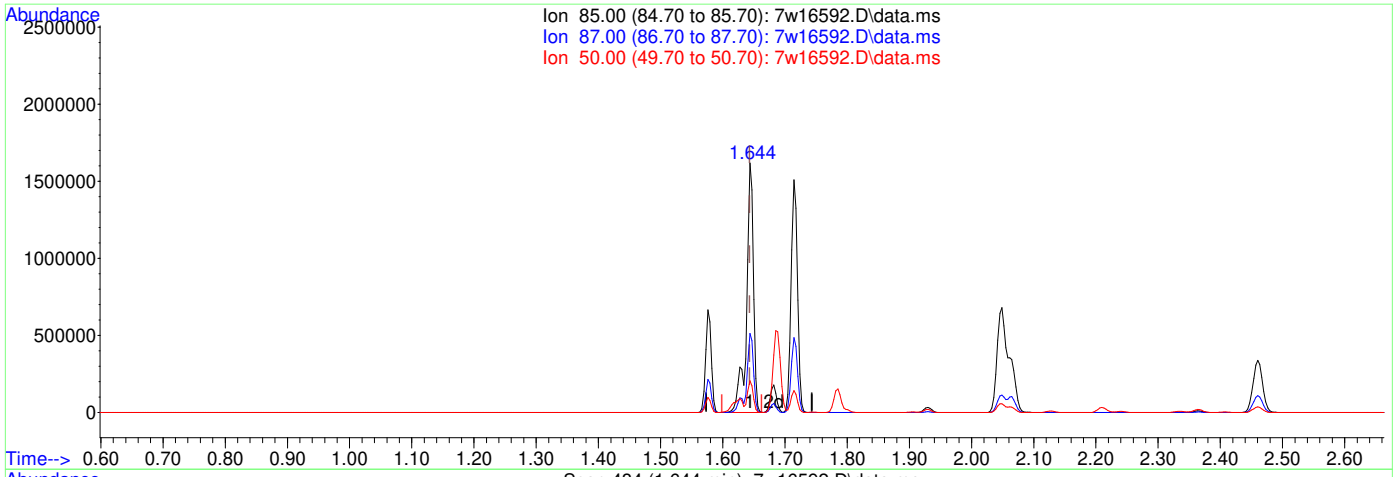
response 307098

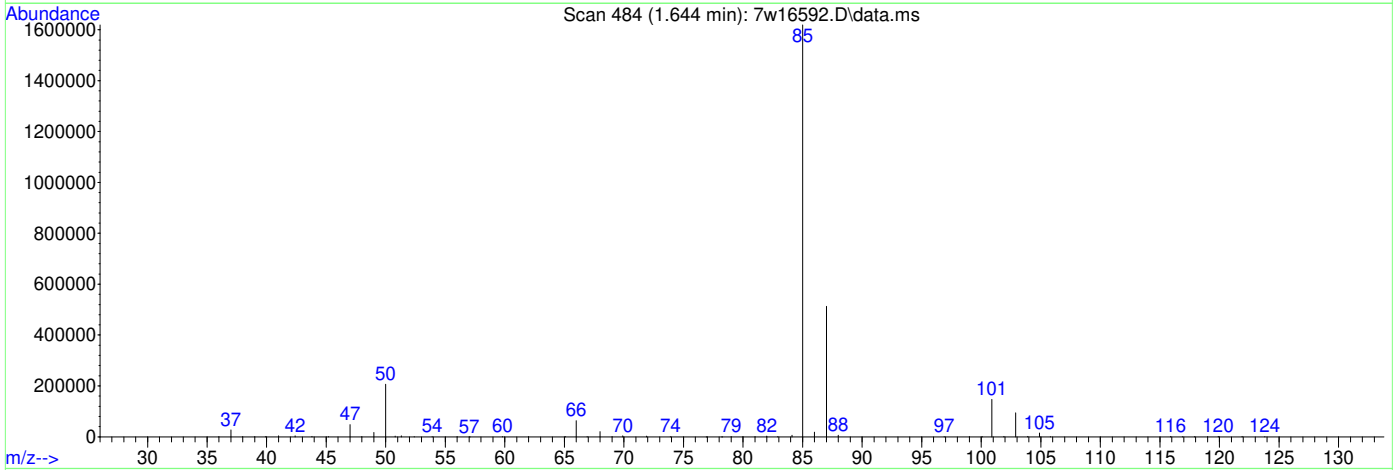
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 39.56PPBV

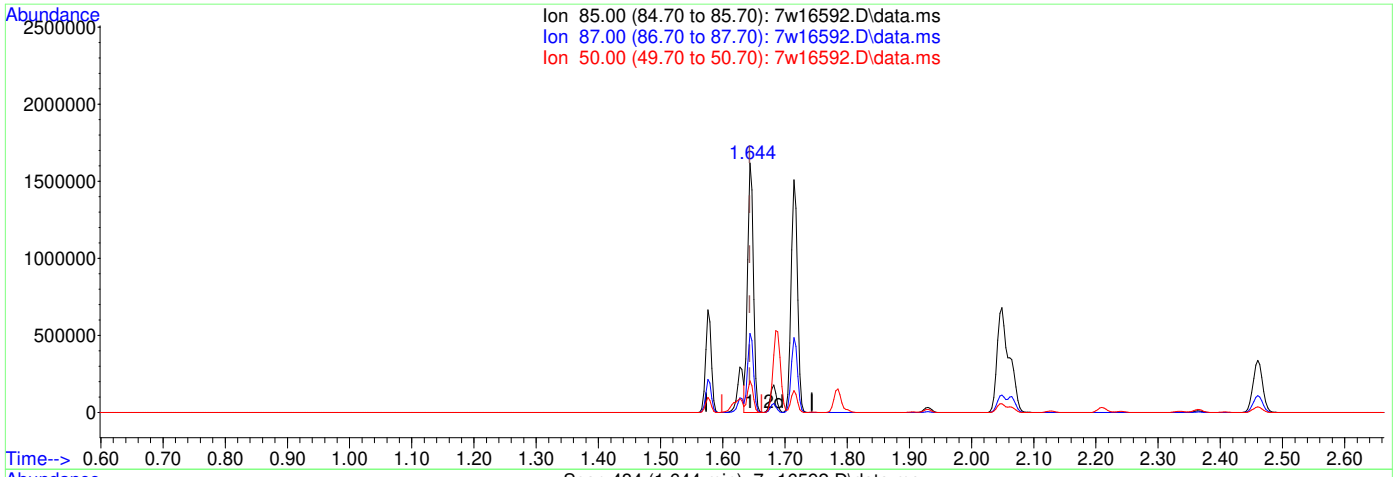
response 1248425

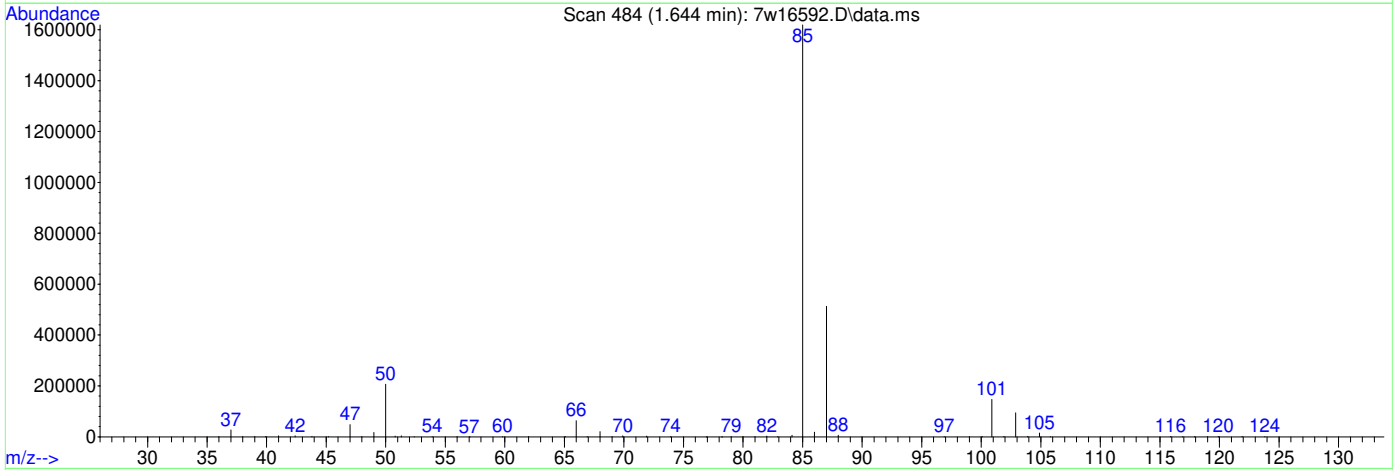
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.14
50.00	19.30	18.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16592.D
Acq On : 7 Aug 2025 2:30 pm
Operator : benk
Sample : ic577-40
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:57:14 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:36:15 2025
Response via : Initial Calibration





TIC: 7w16592.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.000) 33.07PPBV m

response 1043482

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.45
50.00	19.30	22.36
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	105717	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	531881	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	494368	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	105715	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	398017	10.03	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	347161	52.39	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	153687	53.47	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	766747	56.03	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	1341049m	44.53	PPBV		
7) PROPYLENE	1.627	41	437361	50.49	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1168248	51.17	PPBV		99
9) FREON 114	1.714	85	1366824	52.31	PPBV		99
10) CHLOROMETHANE	1.688	52	180379	48.75	PPBV		99
11) VINYL CHLORIDE	1.746	62	644820	49.80	PPBV		100
12) 1,3-BUTADIENE	1.785	54	492846	47.75	PPBV		98
13) N-BUTANE	1.801	43	861032	49.00	PPBV		99
14) BROMOMETHANE	1.859	94	489029	48.47	PPBV		99
15) CHLOROETHANE	1.904	64	335126	47.41	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	1165217	47.65	PPBV		99
17) ACETONITRILE	1.994	41	492619	39.40	PPBV		99
18) ACROLEIN	2.033	56	284178	48.79	PPBV		99
19) FREON 123	2.049	83	1284287	52.41	PPBV		100
20) FREON 123A	2.065	117	752289	51.67	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1332114	47.77	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1144041	47.91	PPBV		99
23) ACETONE	2.071	58	315550	48.52	PPBV		94
24) PENTANE	2.238	42	600441	46.26	PPBV		99
25) IODOMETHANE	2.299	142	1336999	52.52	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	541882	51.15	PPBV		96
27) CARBON DISULFIDE	2.463	76	1536663	51.13	PPBV		97
28) ETHANOL	1.933	45	274276	42.83	PPBV		100
29) BROMOETHENE	2.004	106	503032	50.05	PPBV		100
30) ACRYLONITRILE	2.209	52	465157	51.19	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	488512	46.46	PPBV		94
32) 3-CHLOROPROPENE	2.406	76	282447	50.05	PPBV		93
33) FREON 113	2.460	151	827135	52.05	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	2.685	96	567495	48.66	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	1271463	42.60	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	1685636	50.99	PPBV		99
37) TETRAHYDROFURAN	3.463	72	264475	49.92	PPBV		98
38) HEXANE	3.241	57	1126153	50.43	PPBV		95
39) VINYL ACETATE	2.827	86	168950	54.22	PPBV		93
40) 1,1-DICHLOROETHANE	2.759	63	1126676	50.17	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	301446	49.43	PPBV		97
42) CIS-1,2-DICHLOROETHENE	3.116	96	616786	51.36	PPBV		99
43) DIISOPROPYL ETHER	3.245	59	322160	51.01	PPBV		92
44) ETHYL ACETATE	3.251	61	229745	54.48	PPBV		86
45) METHYL ACRYLATE	3.238	55	1386411	51.53	PPBV	#	100
46) CHLOROFORM	3.264	83	1180563	50.69	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1310498	52.75	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1267195	51.99	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1338340	53.55	PPBV		100
50) 1,2-DICHLOROETHANE	3.663	62	918746	51.11	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	BENZENE	4.129	78	1795488	50.31	PPBV	99
53)	CYCLOHEXANE	4.335	84	810673	52.10	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.589	71	421378	54.59	PPBV	99
55)	TRICHLOROETHENE	5.020	95	808299	48.49	PPBV	99
56)	1,2-DICHLOROPROPANE	4.788	63	756985	51.61	PPBV	99
57)	DIBROMOMETHANE	4.749	174	703285	49.34	PPBV	98
58)	ETHYL ACRYLATE	4.907	55	1751040	53.53	PPBV	100
59)	BROMODICHLOROMETHANE	4.968	83	1363903	51.19	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.110	57	3474233	47.72	PPBV	100
61)	1,4-DIOXANE	5.023	88	402995	51.97	PPBV	98
62)	HEPTANE	5.421	43	1183014	49.34	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	696280	52.38	PPBV	96
64)	METHYL ISOBUTYL KETONE	6.045	58	692709	48.13	PPBV	98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	1209649	54.68	PPBV	97
66)	TOLUENE	7.138	91	2257380	53.54	PPBV	99
67)	1,3-DICHLOROPROPANE	7.200	76	1150031	54.57	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.614	75	1086853	55.09	PPBV	98
69)	1,1,2-TRICHLOROETHANE	6.772	83	657452	55.07	PPBV	99
70)	2-HEXANONE	7.701	58	931287	45.78	PPBV	97
71)	ETHYL METHACRYLATE	7.839	69	1191952	54.01	PPBV	98
72)	TETRACHLOROETHENE	8.852	164	838148	54.58	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.666	129	1403452	58.86	PPBV	100
74)	1,2-DIBROMOETHANE	8.010	107	1223967	56.46	PPBV	100
75)	OCTANE	9.003	43	1670114	52.30	PPBV	99
77)	1,1,1,2-TETRACHLOROETHANE	10.068	131	1014574	57.95	PPBV	100
78)	CHLOROBENZENE	10.055	112	1847440	54.82	PPBV	99
79)	ETHYLBENZENE	10.936	91	3062670	55.49	PPBV	100
80)	M,P-XYLENE	11.363	91	4688509	104.27	PPBV	90
81)	O-XYLENE	12.293	91	2383048	54.76	PPBV	98
82)	STYRENE	12.080	104	1884473	58.71	PPBV	99
83)	NONANE	13.415	43	1775546	52.08	PPBV	98
84)	BROMOFORM	11.174	173	1265430	63.02	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.309	83	1733579	55.83	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.592	75	1360230	55.93	PPBV	100
88)	ISOPROPYLBENZENE	13.804	120	894931	54.23	PPBV	98
89)	BROMOBENZENE	13.669	77	1702334	53.56	PPBV	99
90)	2-CHLOROTOLUENE	14.797	126	829710	54.34	PPBV	100
91)	N-PROPYLBENZENE	15.138	120	961239	55.42	PPBV	100
92)	4-ETHYLTOLUENE	15.582	105	3566781	55.47	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.858	105	2975442	55.47	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.183	118	1513322	57.73	PPBV	99
95)	TERT-BUTYLBENZENE	16.505	134	714841	54.19	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3037196	57.25	PPBV	99
97)	BENZYL CHLORIDE	16.608	91	2795409	68.69	PPBV	99
98)	M-DICHLOROBENZENE	16.582	146	1958237	53.40	PPBV	100
99)	P-DICHLOROBENZENE	16.675	146	1991134	55.15	PPBV	100
100)	O-DICHLOROBENZENE	16.997	146	1868131	55.08	PPBV	100
101)	SEC-BUTYLBENZENE	16.820	134	879244	56.32	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	16.942	105	2956799	55.49	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.019	134	964439	55.64	PPBV	99
104)	N-BUTYLBENZENE	17.386	134	974353	59.74	PPBV	97
105)	HEXACHLOROETHANE	17.566	117	1246101	62.73	PPBV	98
106)	HEXACHLOROBUTADIENE	18.640	225	1541106	64.95	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2093092	76.81	PPBV	99
108)	NAPHTHALENE	18.376	128	4901356	81.19	PPBV	99
110)	TVHC as equiv Pentane	2.238	TIC	2811423	45.25	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

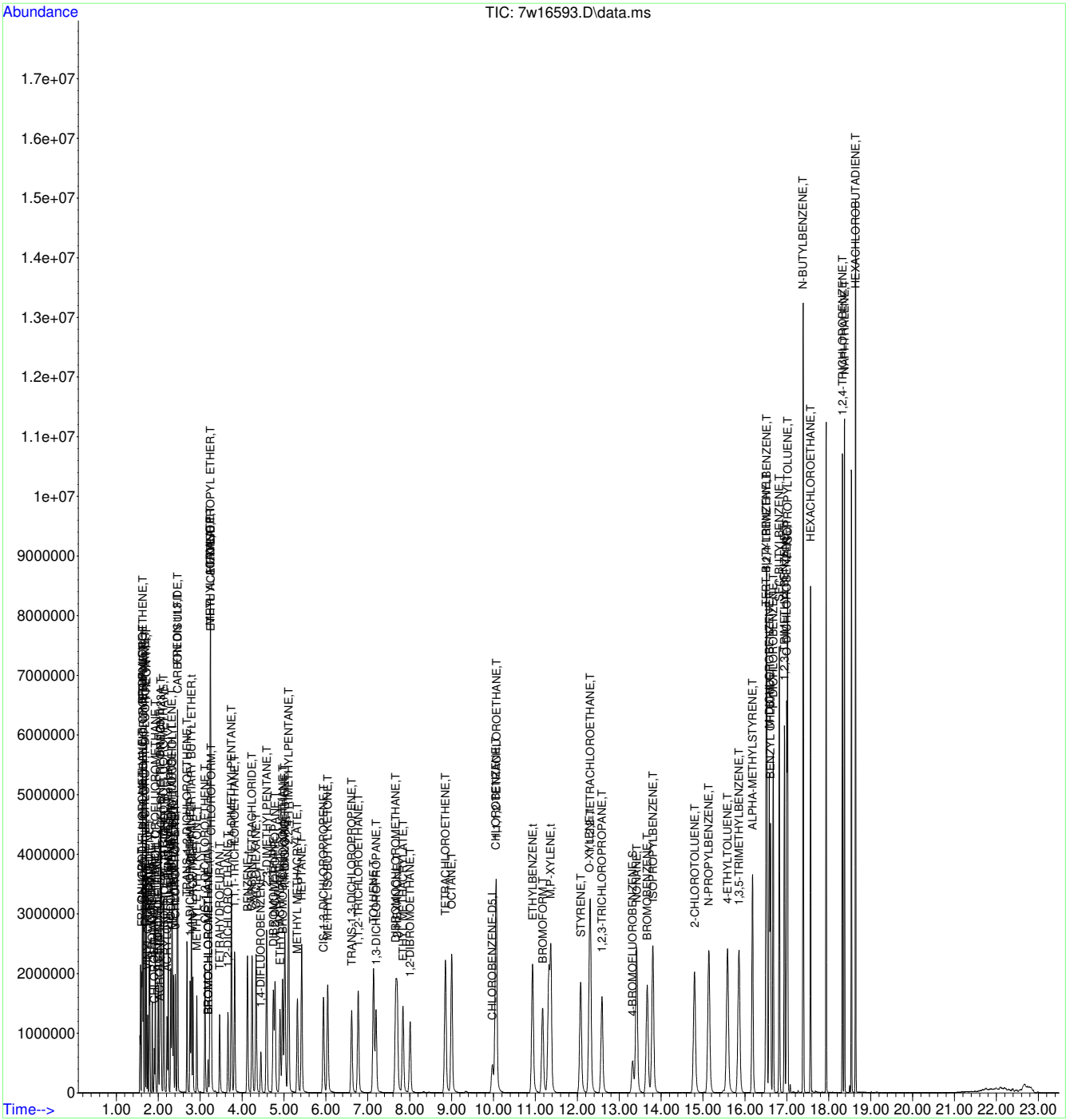
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

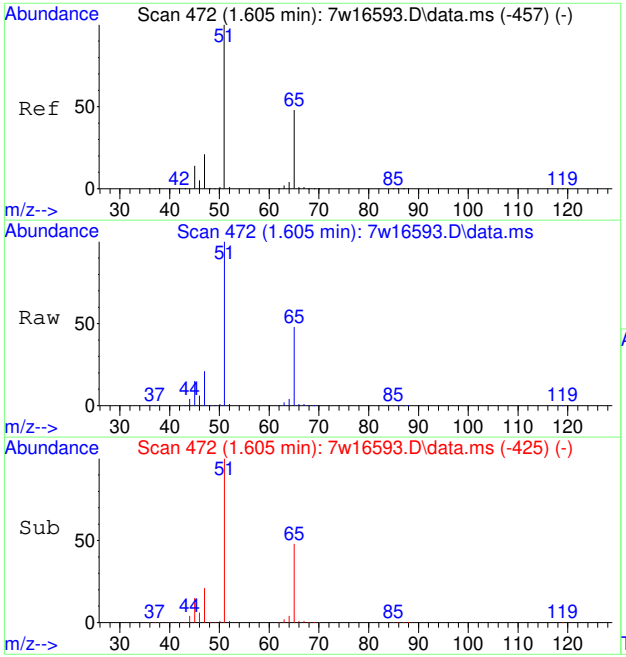
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:28 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration

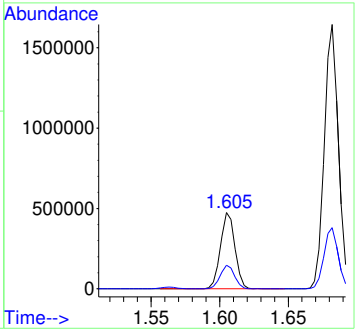


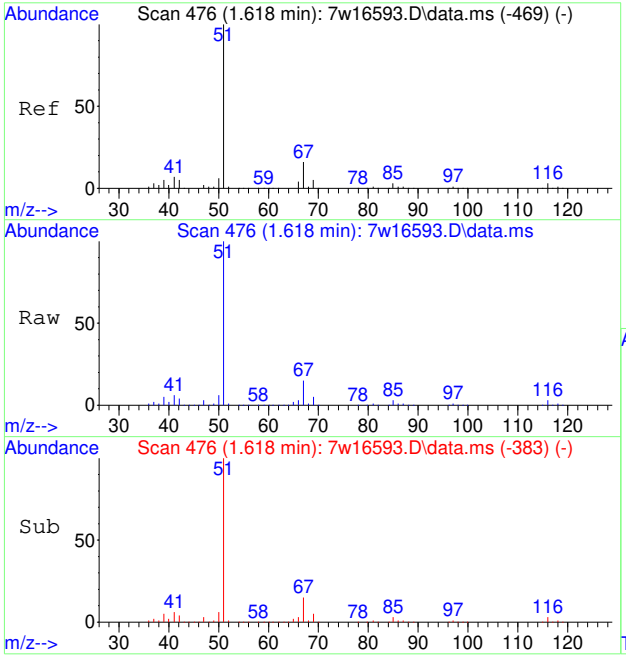


#3
FREON 152A
Concen: 52.39 PPBV
RT: 1.605 min Scan# 472
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 347161

Ion	Ratio	Lower	Upper
65	100		
45	30.7	23.0	42.8

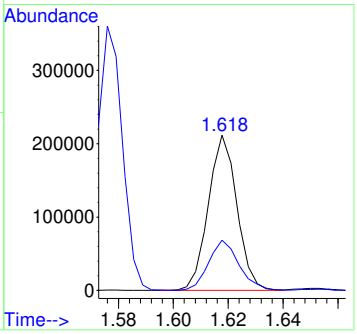


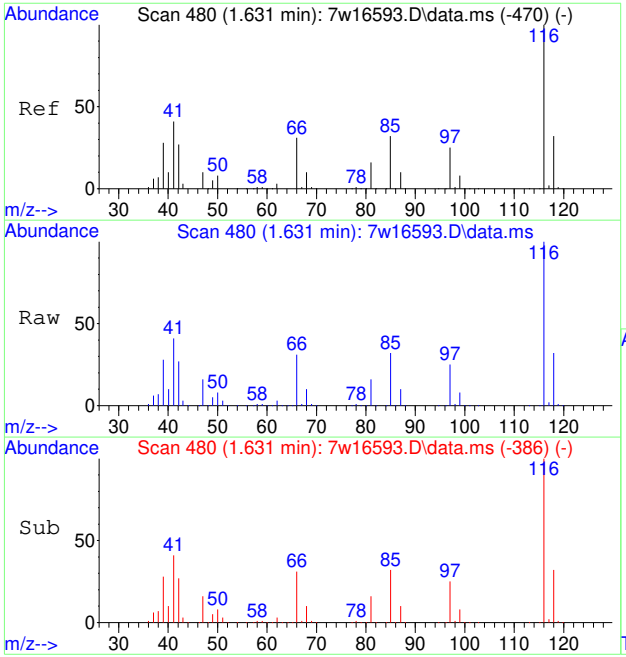


#4
CHLORODIFLUOROMETHANE
Concen: 53.47 PPBV
RT: 1.618 min Scan# 476
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 153687

Ion	Ratio	Lower	Upper
67	100		
69	34.0	25.3	47.1

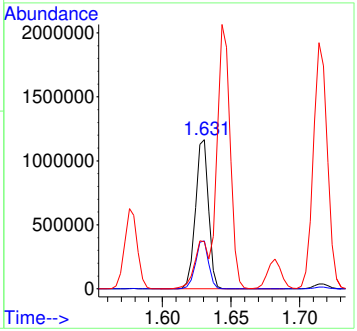


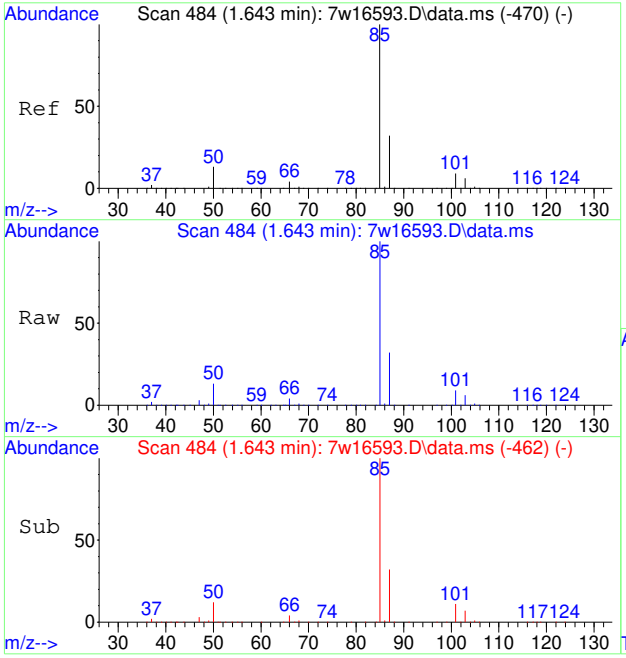


#5
CHLOROTRIFLUOROETHENE
Concen: 56.03 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:116 Resp: 766747

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	209.5	152.4	283.0

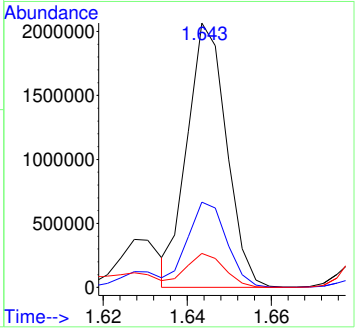


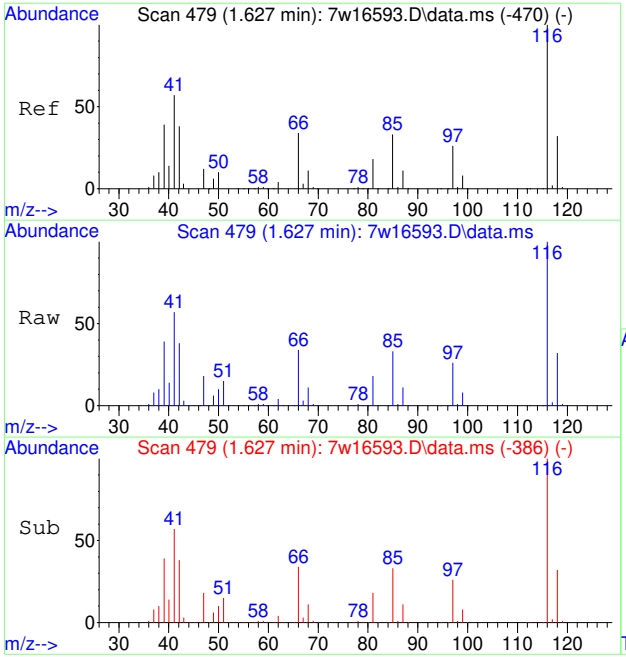


#6
DICHLORODIFLUOROMETHANE
Concen: 44.53 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1341049

Ion	Ratio	Lower	Upper
85	100		
87	38.9	23.0	42.6
50	22.3	13.5	25.1

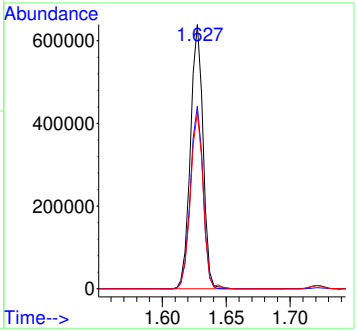


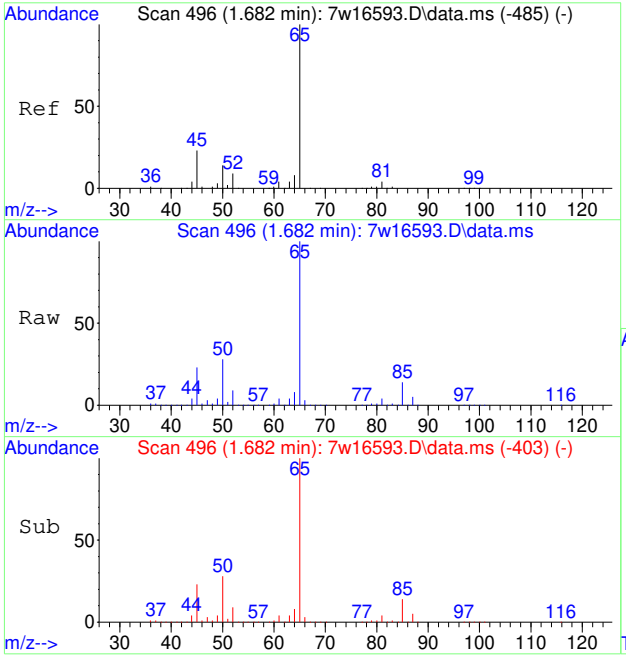


#7
PROPYLENE
Concen: 50.49 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 437361

Ion	Ratio	Lower	Upper
41	100		
39	69.4	50.5	93.7
42	67.7	47.0	87.4

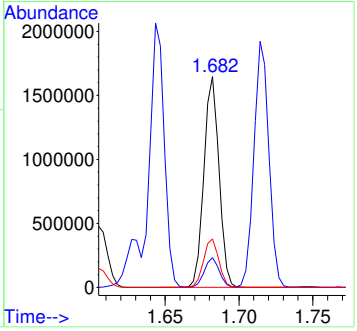


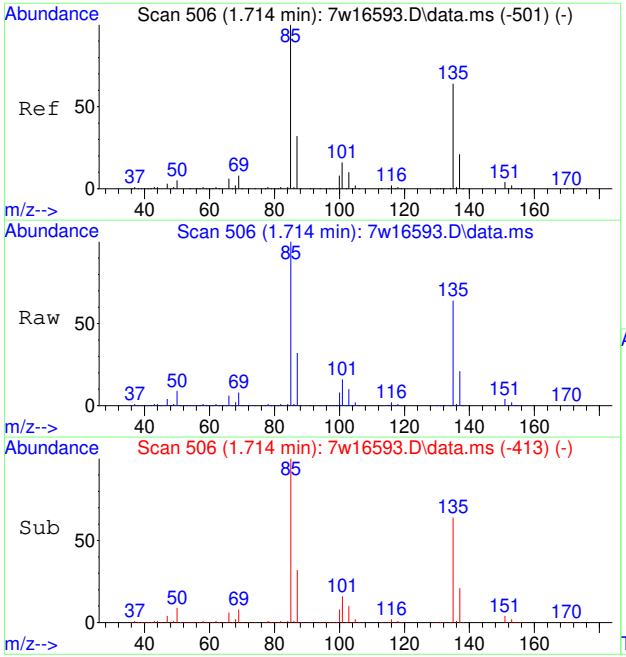


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 51.17 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 65 Resp: 1168248

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

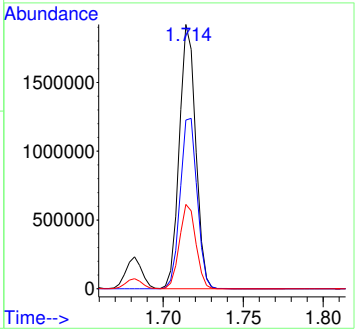


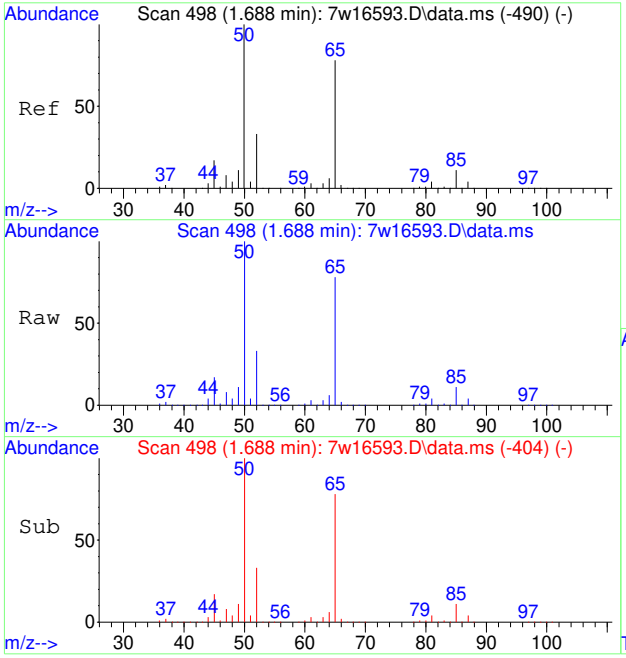


#9
FREON 114
Concen: 52.31 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 85 Resp: 1366824

Ion	Ratio	Lower	Upper
85	100		
135	66.9	46.1	85.7
87	32.1	22.6	42.0

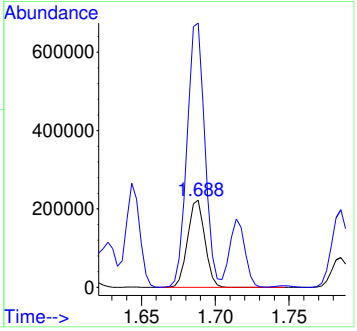


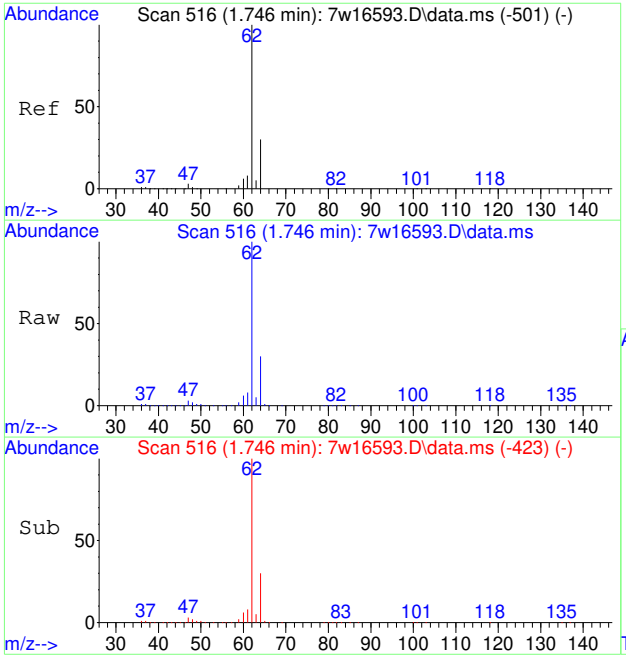


#10
CHLOROMETHANE
Concen: 48.75 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 180379

Ion	Ratio	Lower	Upper
52	100		
50	319.4	225.6	419.0

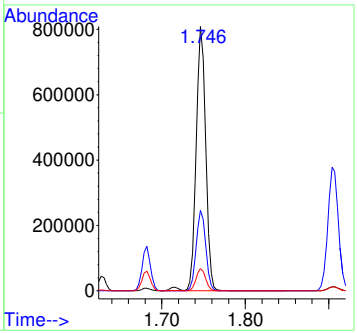


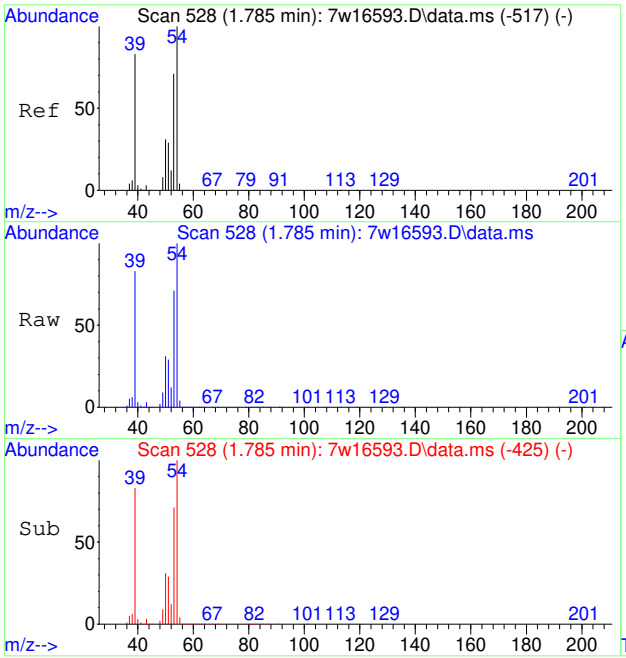


#11
VINYL CHLORIDE
Concen: 49.80 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 644820

Ion	Ratio	Lower	Upper
62	100		
64	30.3	21.3	39.6
61	8.5	5.7	10.5

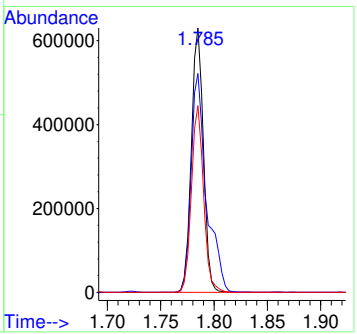


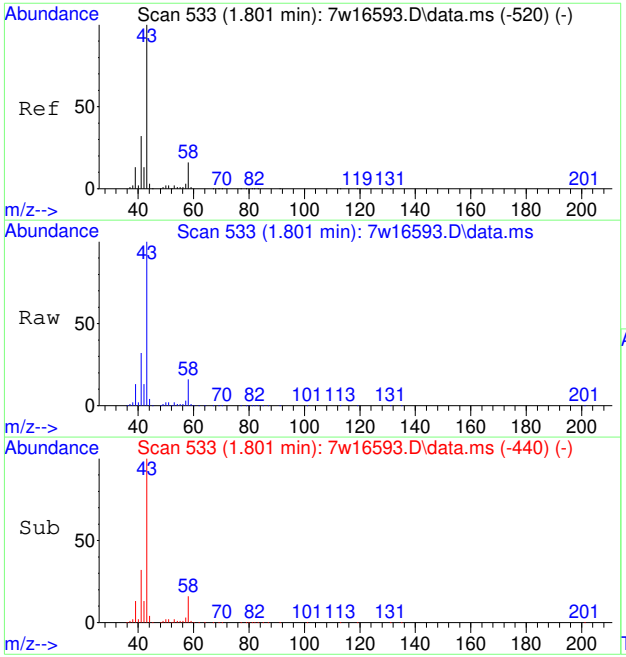


#12
1,3-BUTADIENE
Concen: 47.75 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 54 Resp: 492846

Ion	Ratio	Lower	Upper
54	100		
39	105.5	78.4	138.4
53	71.6	40.9	100.9

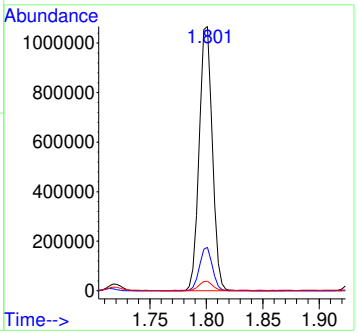


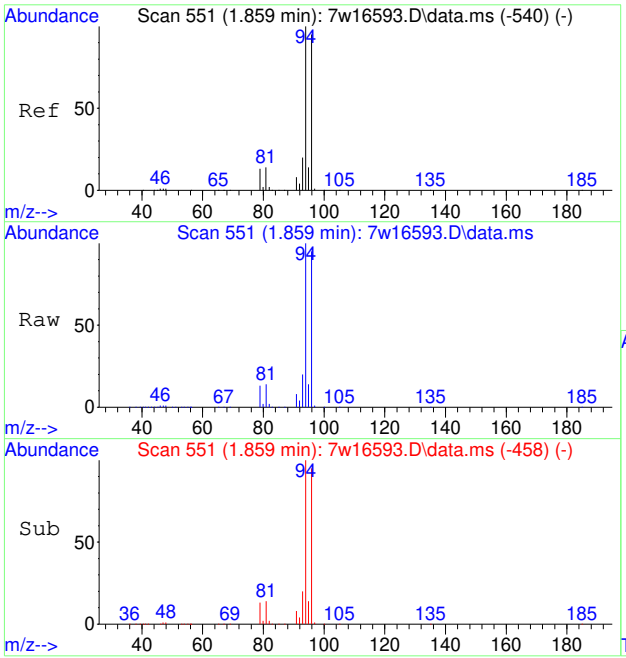


#13
N-BUTANE
Concen: 49.00 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 861032

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.6	2.6	4.8

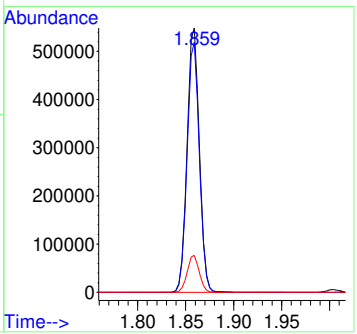


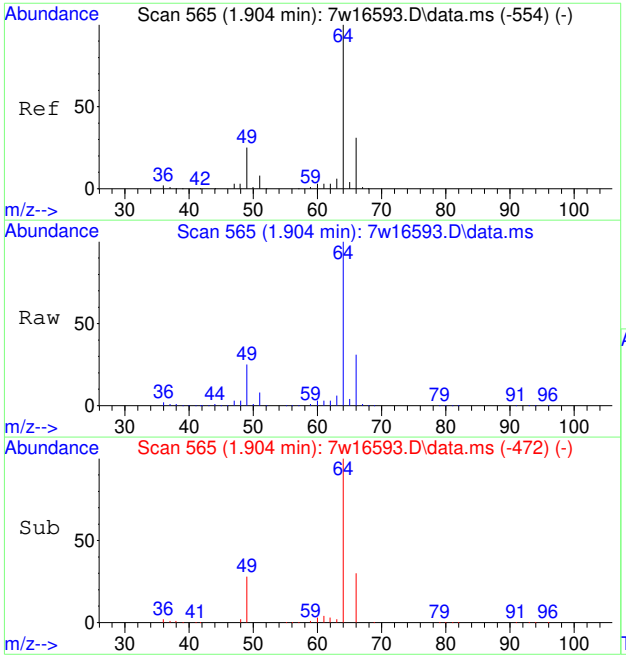


#14
BROMOMETHANE
Concen: 48.47 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 94 Resp: 489029

Ion	Ratio	Lower	Upper
94	100		
96	93.9	66.1	122.7
95	13.8	9.9	18.3

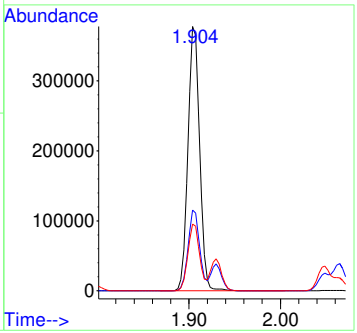


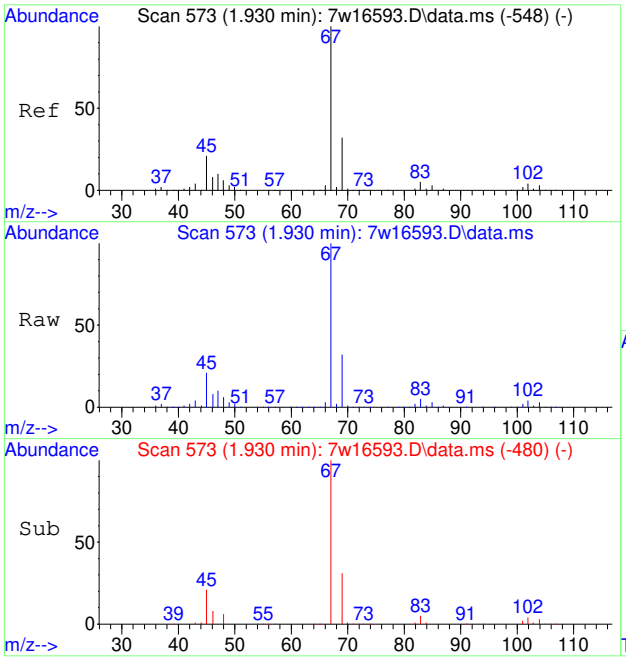


#15
CHLOROETHANE
Concen: 47.41 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 64 Resp: 335126

Ion	Ratio	Lower	Upper
64	100		
66	30.6	21.5	39.9
49	26.0	19.0	35.4

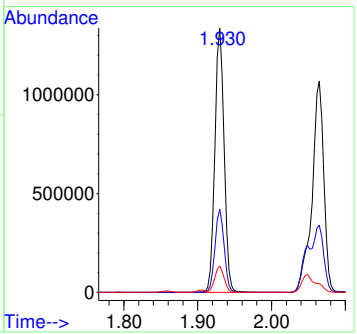


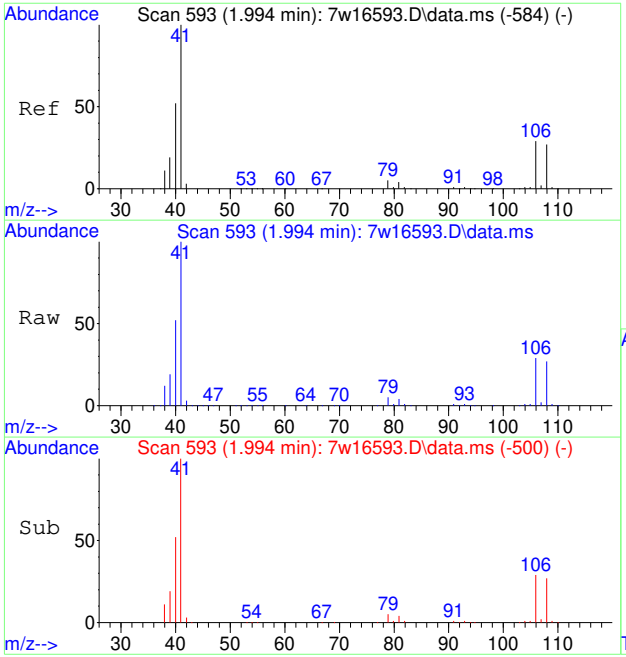


#16
DICHLOROFLUOROMETHANE
Concen: 47.65 PPBV
RT: 1.930 min Scan# 573
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 67 Resp: 1165217

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

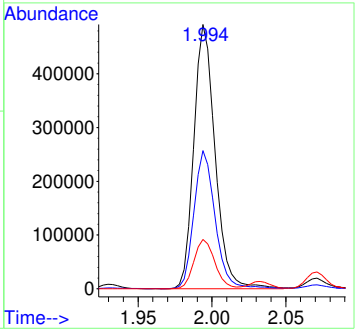


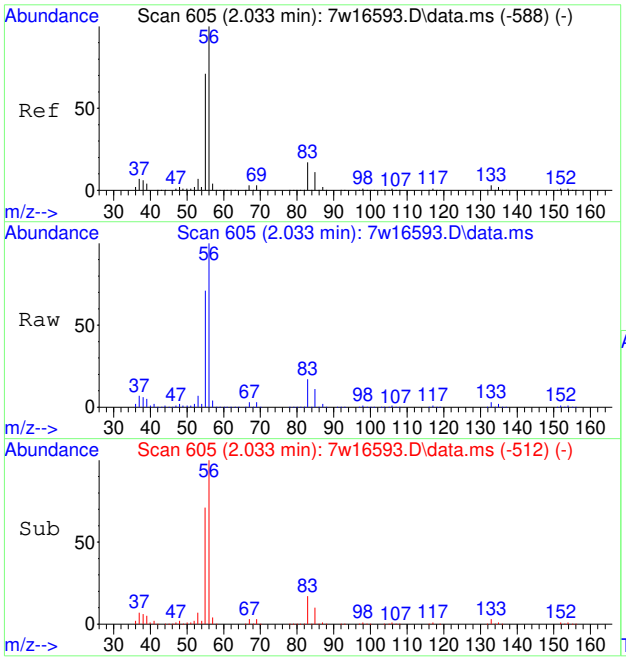


#17
ACETONITRILE
Concen: 39.40 PPBV
RT: 1.994 min Scan# 593
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 41 Resp: 492619

Ion	Ratio	Lower	Upper
41	100		
40	52.0	36.7	68.1
39	18.3	13.1	24.3

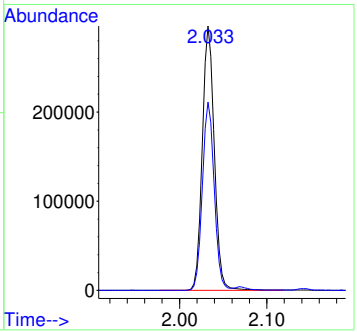


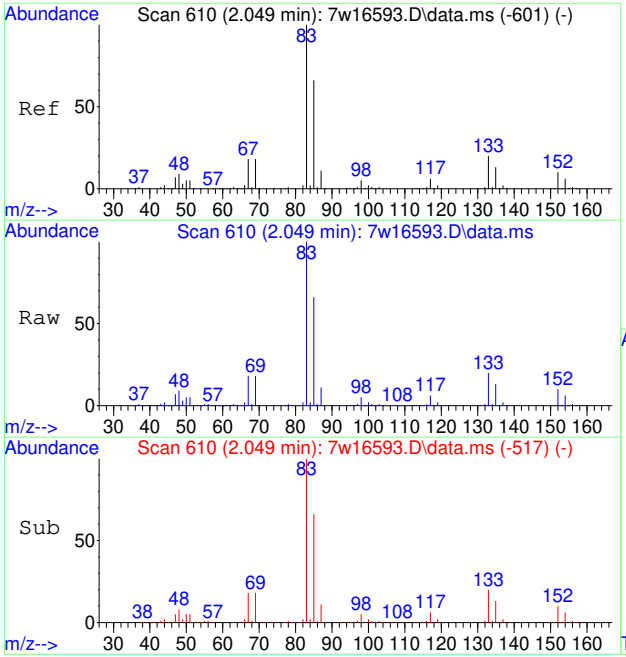


#18
ACROLEIN
Concen: 48.79 PPBV
RT: 2.033 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 56 Resp: 284178

Ion	Ratio	Lower	Upper
56	100		
55	70.2	48.9	90.7

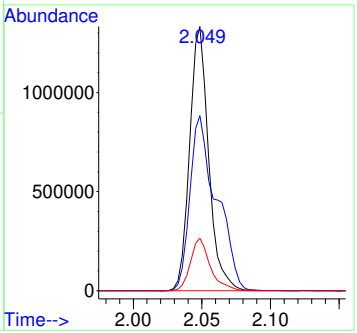


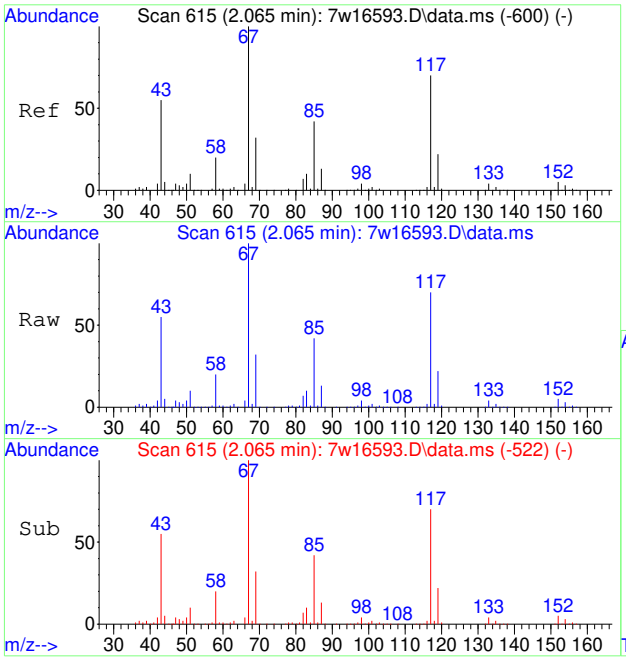


#19
FREON 123
Concen: 52.41 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1284287

Ion	Ratio	Lower	Upper
83	100		
85	92.9	64.9	120.5
133	20.7	14.7	27.3

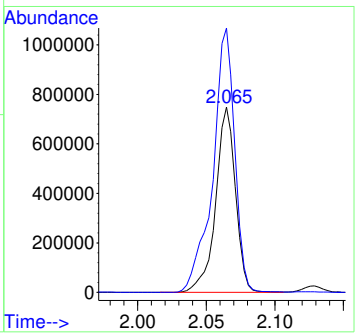


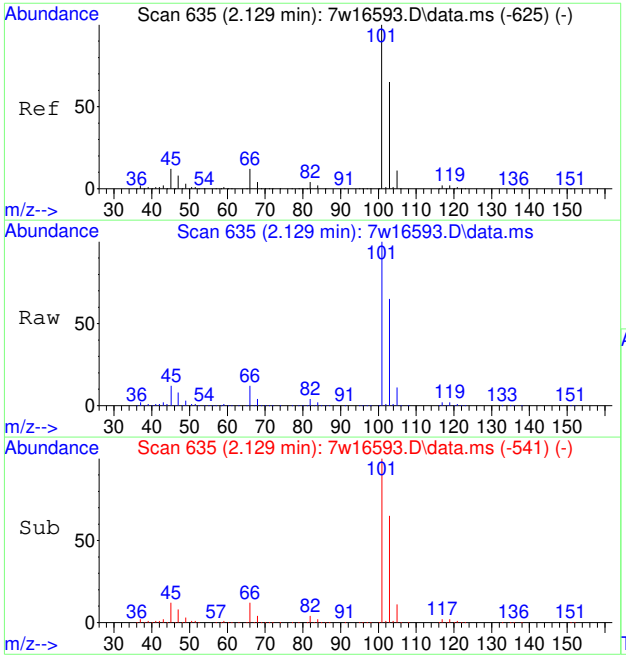


#20
FREON 123A
Concen: 51.67 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 752289

Ion	Ratio	Lower	Upper
117	100		
67	157.8	111.3	206.7

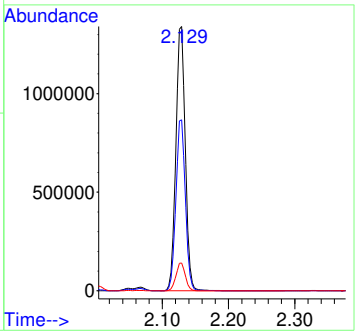


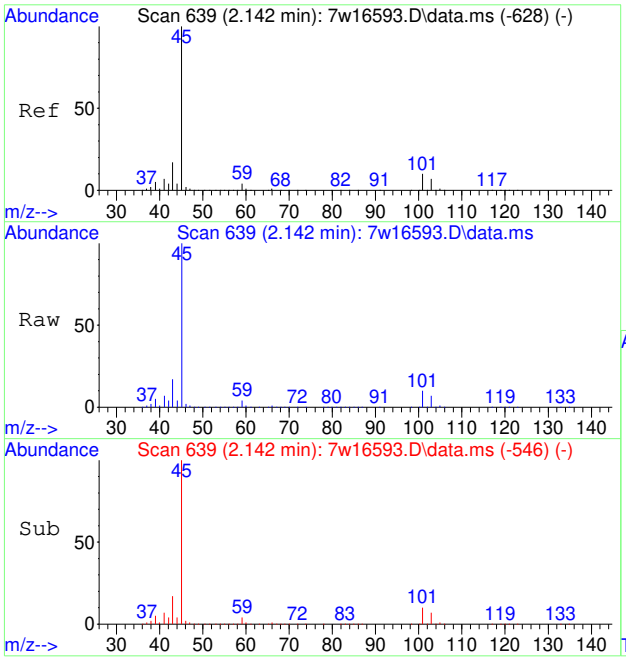


#21
TRICHLOROFLUOROMETHANE
Concen: 47.77 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:101 Resp: 1332114

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.5	7.3	13.5

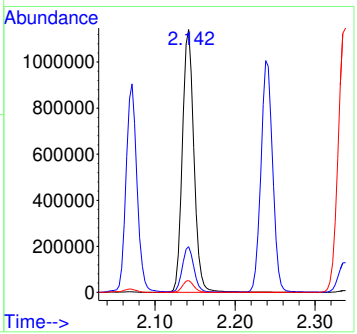


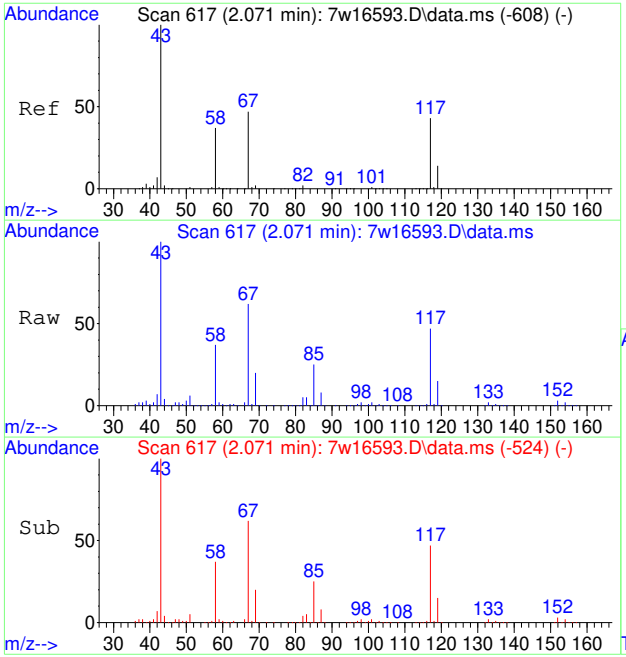


#22
ISOPROPYL ALCOHOL
Concen: 47.91 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 1144041

Ion	Ratio	Lower	Upper
45	100		
43	17.6	12.5	23.3
59	4.5	3.1	5.7

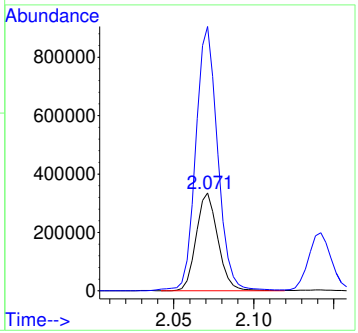


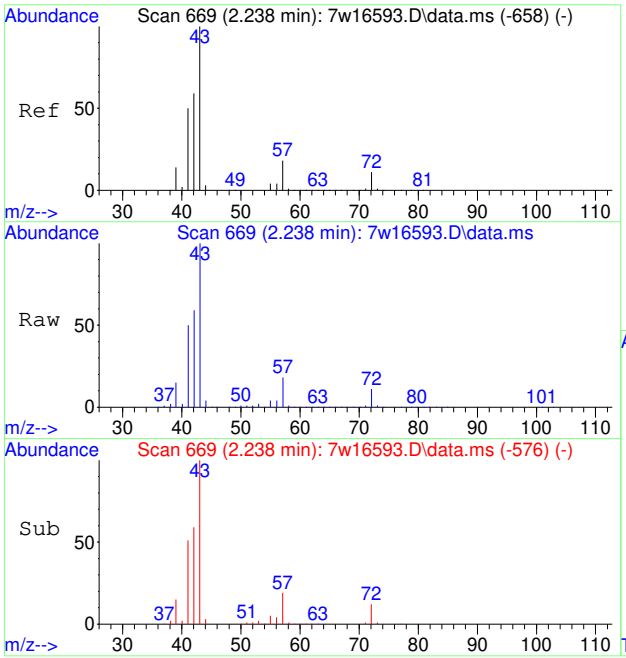


#23
ACETONE
Concen: 48.52 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 315550

Ion	Ratio	Lower	Upper
58	100		
43	272.7	198.6	368.8

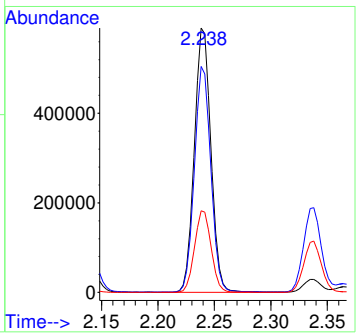


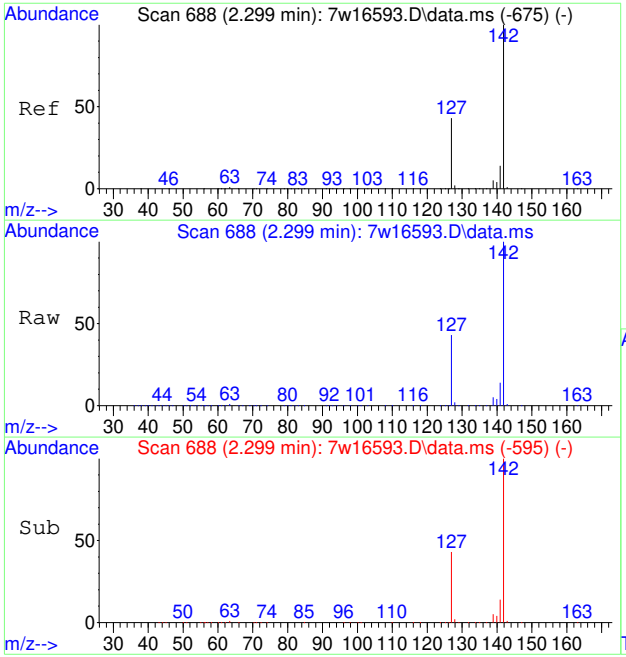


#24
PENTANE
Concen: 46.26 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 42 Resp: 600441

Ion	Ratio	Lower	Upper
42	100		
41	85.1	59.8	111.0
57	31.1	21.1	39.1

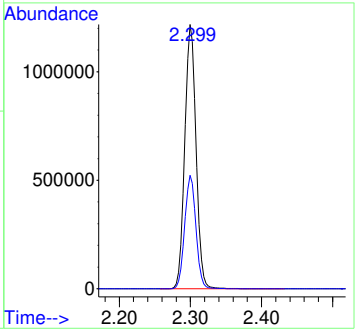


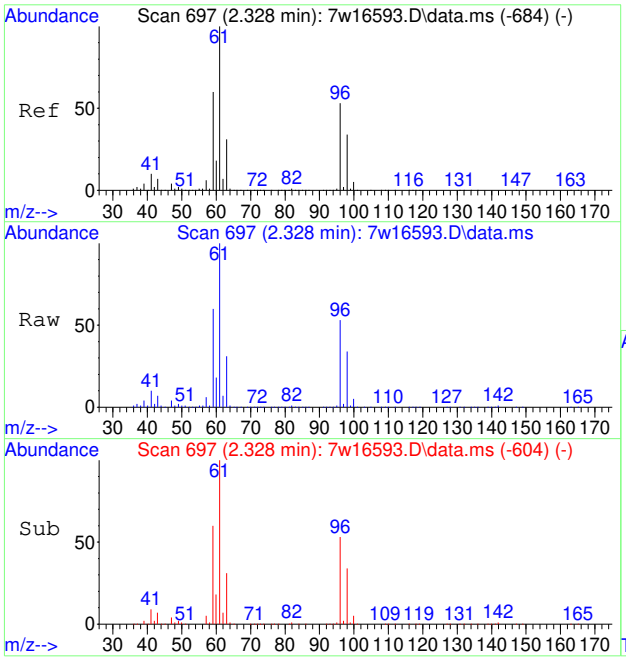


#25
IODOMETHANE
Concen: 52.52 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:142 Resp: 1336999

Ion	Ratio	Lower	Upper
142	100		
127	42.9	30.6	56.8

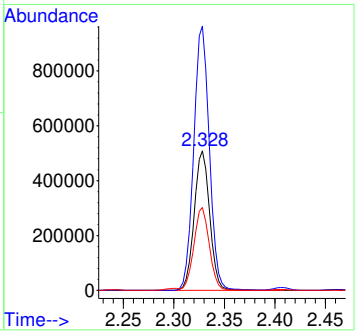


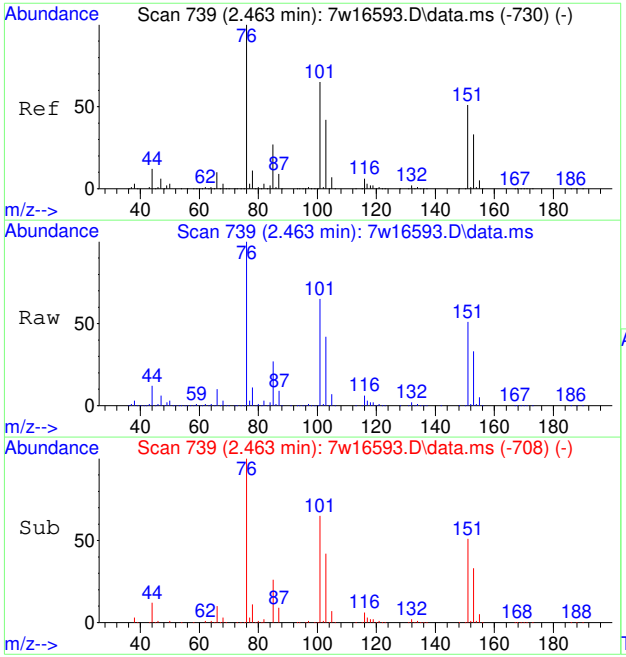


#26
1,1-DICHLOROETHYLENE
Concen: 51.15 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 541882

Ion	Ratio	Lower	Upper
96	100		
61	190.6	138.3	256.8
63	60.5	44.2	82.0

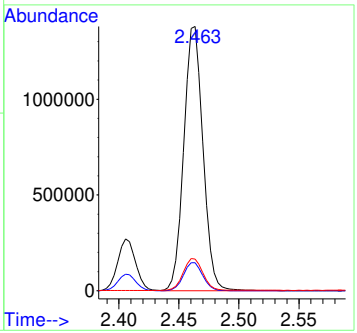


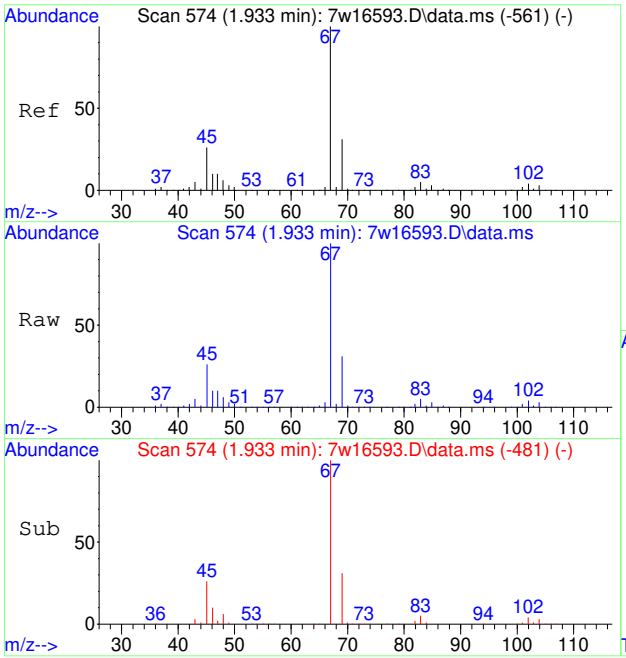


#27
CARBON DISULFIDE
Concen: 51.13 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1536663

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.4	10.2	19.0

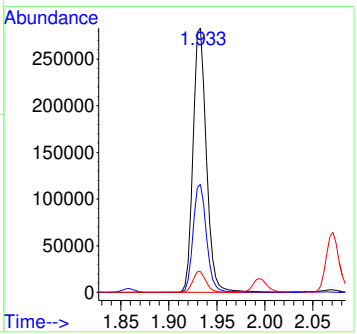


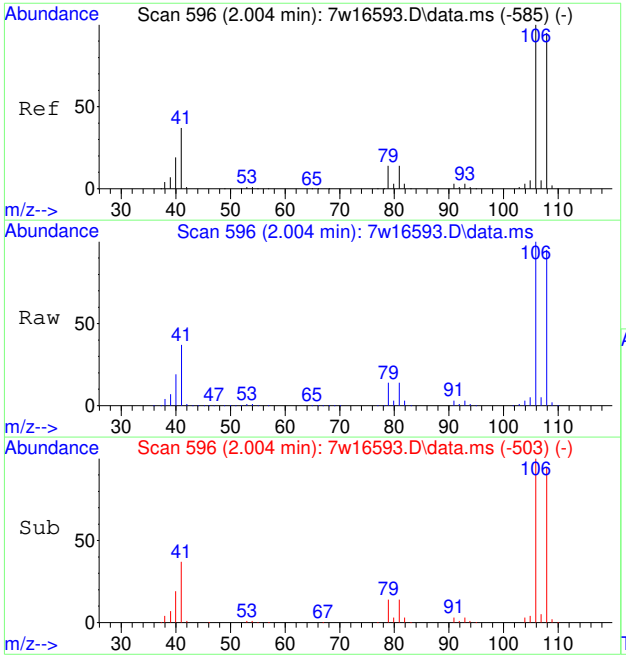


#28
ETHANOL
Concen: 42.83 PPBV
RT: 1.933 min Scan# 574
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 45 Resp: 274276

Ion	Ratio	Lower	Upper
45	100		
46	41.4	29.0	53.9
42	7.7	5.7	10.5

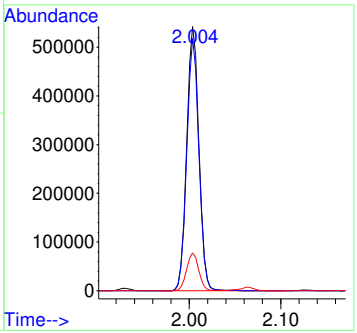


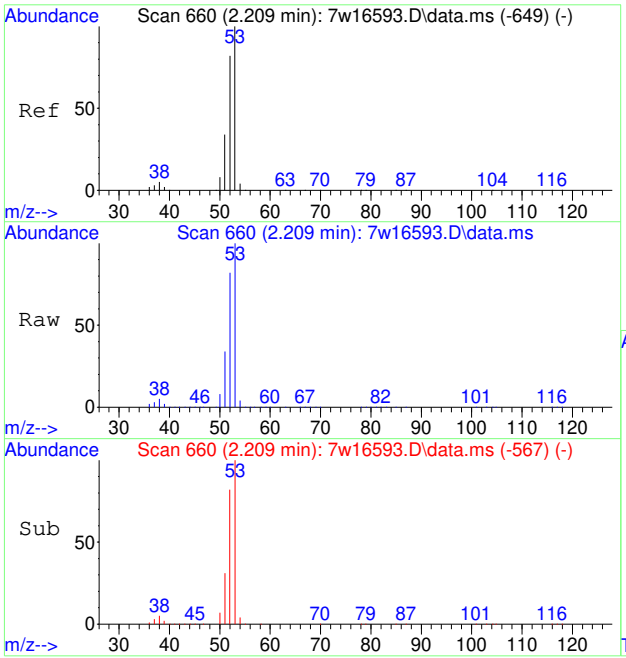


#29
BROMOETHENE
Concen: 50.05 PPBV
RT: 2.004 min Scan# 596
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:106 Resp: 503032

Ion	Ratio	Lower	Upper
106	100		
108	94.3	66.1	122.7
81	14.2	10.6	19.8

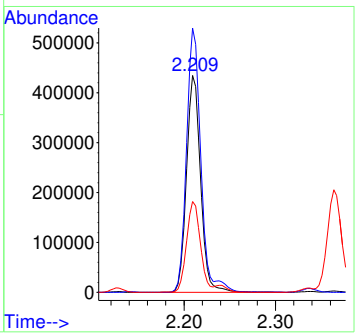


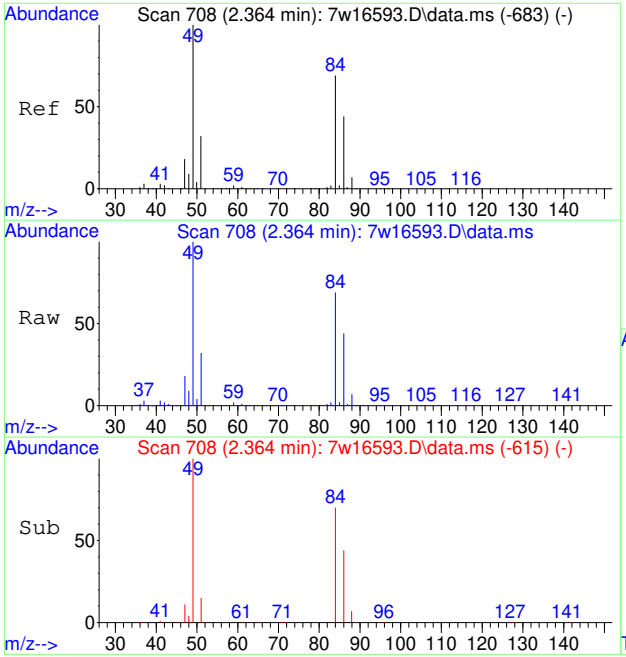


#30
ACRYLONITRILE
Concen: 51.19 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 52 Resp: 465157

Ion	Ratio	Lower	Upper
52	100		
53	124.1	88.2	163.8
51	44.3	31.3	58.1

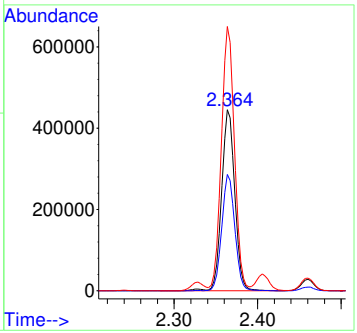


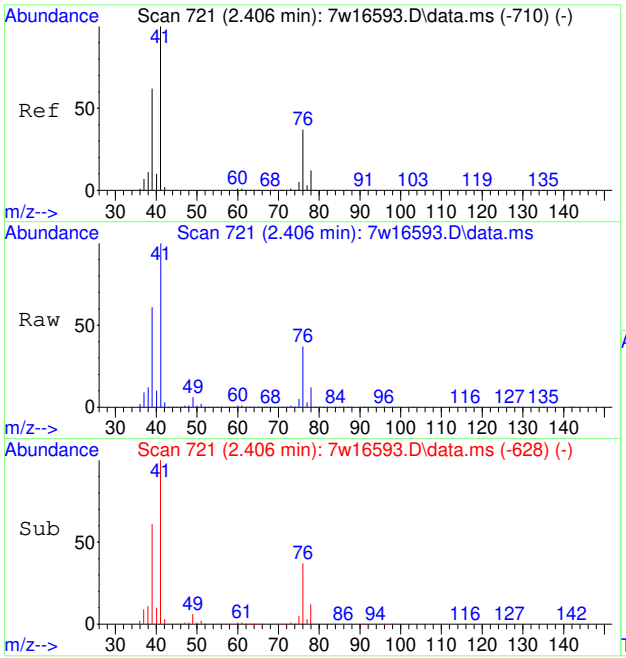


#31
METHYLENE CHLORIDE
Concen: 46.46 PPBV
RT: 2.364 min Scan# 708
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 488512

Ion	Ratio	Lower	Upper
84	100		
86	63.6	44.3	82.3
49	145.0	109.5	203.3

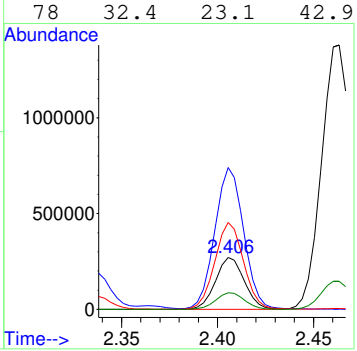


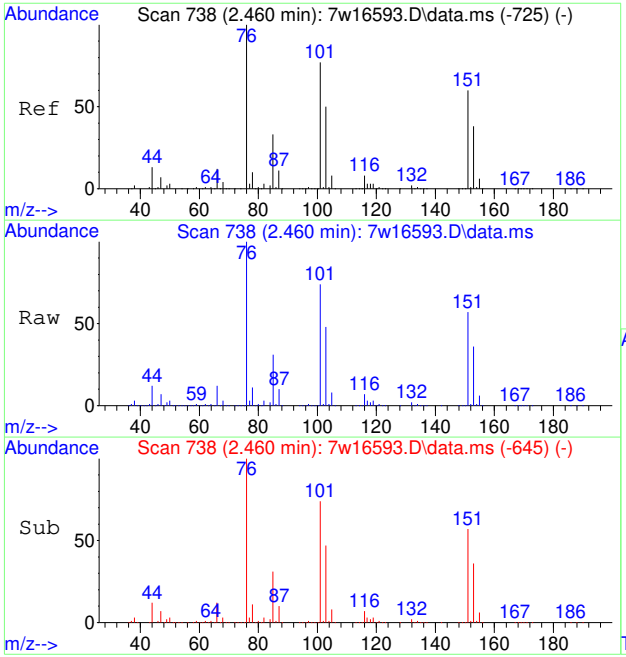


#32
3-CHLOROPROPENE
Concen: 50.05 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 282447

Ion	Ratio	Lower	Upper
76	100		
41	275.4	202.6	376.2
39	167.8	125.8	233.6
78	32.4	23.1	42.9

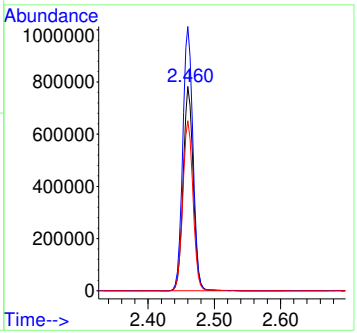


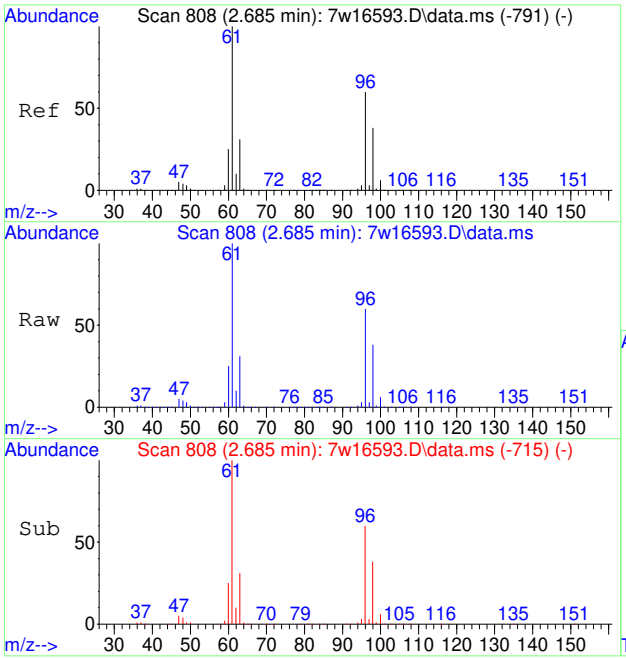


#33
FREON 113
Concen: 52.05 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:151 Resp: 827135

Ion	Ratio	Lower	Upper
151	100		
101	131.1	93.1	172.9
103	84.6	60.1	111.5

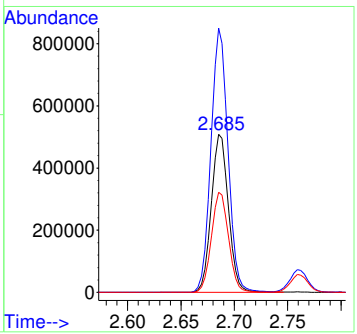


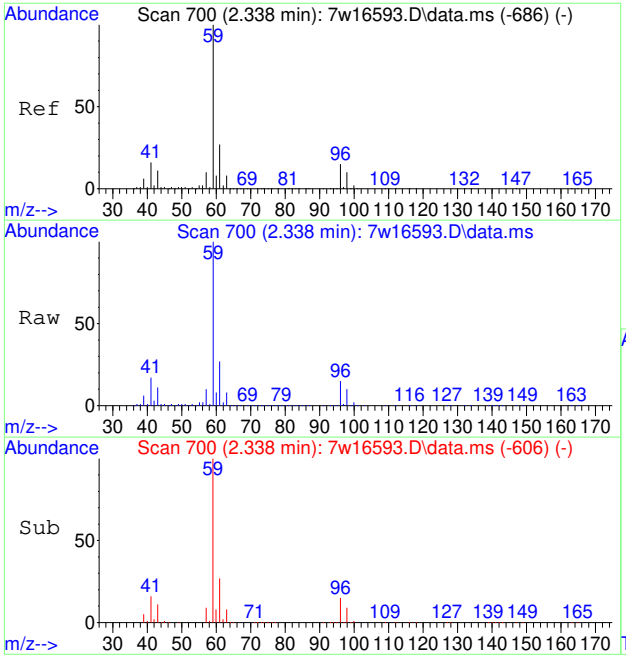


#34
TRANS-1,2-DICHLOROETHENE
Concen: 48.66 PPBV
RT: 2.685 min Scan# 808
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 567495

Ion	Ratio	Lower	Upper
96	100		
61	165.8	119.6	222.0
98	63.4	44.9	83.5

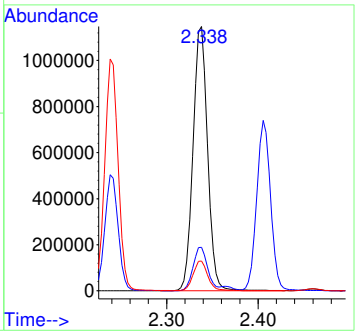


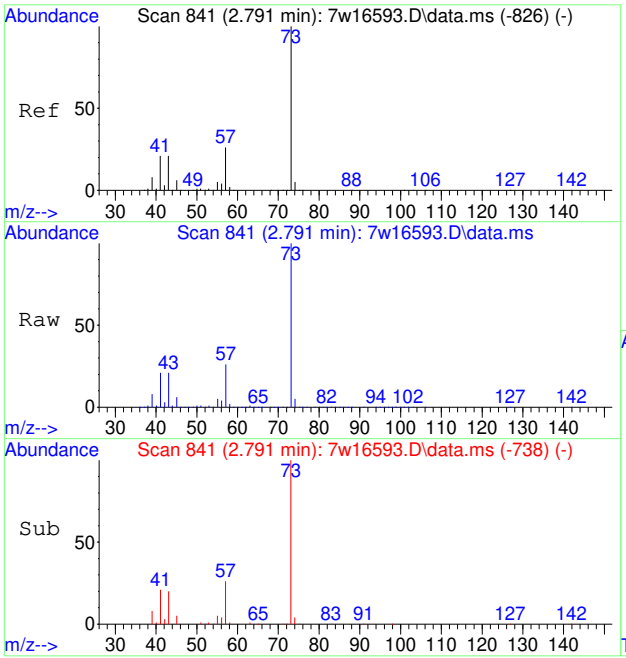


#35
TERTIARY BUTYL ALCOHOL
Concen: 42.60 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 1271463

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.3	8.0	14.8

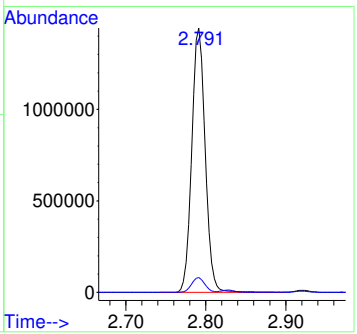


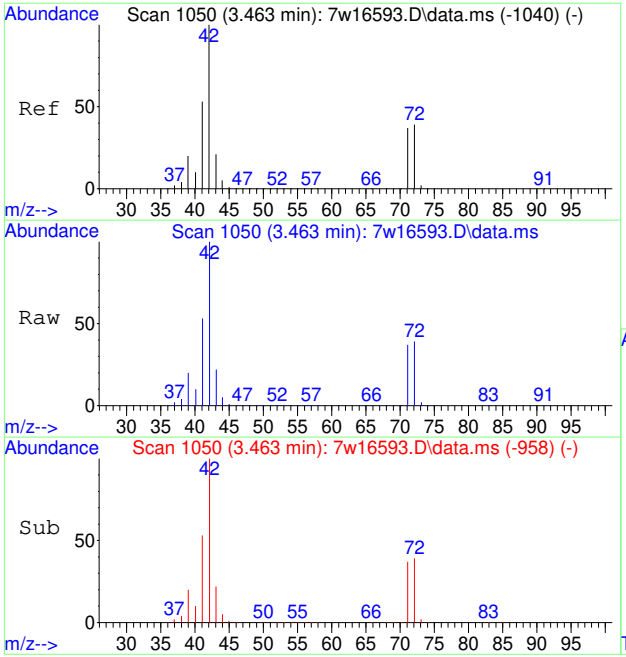


#36
METHYL TERTIARY BUTYL ETHER
Concen: 50.99 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 73 Resp: 1685636

Ion	Ratio	Lower	Upper
73	100		
45	5.6	4.1	7.5

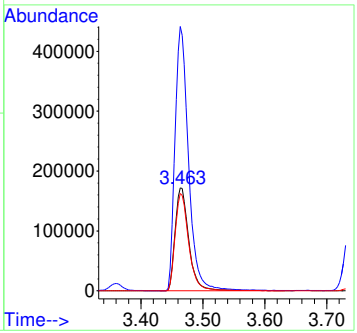


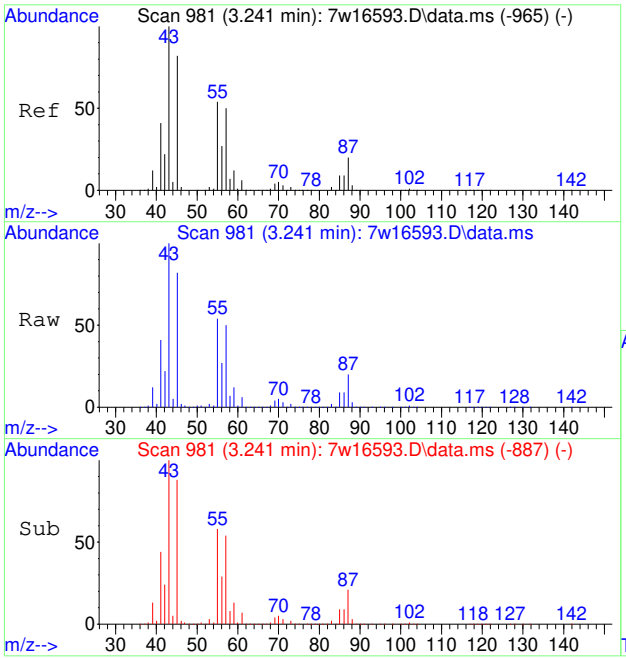


#37
TETRAHYDROFURAN
Concen: 49.92 PPBV
RT: 3.463 min Scan# 1050
Delta R.T. -0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 264475

Ion	Ratio	Lower	Upper
72	100		
42	253.2	180.3	334.8
71	93.9	65.8	122.2

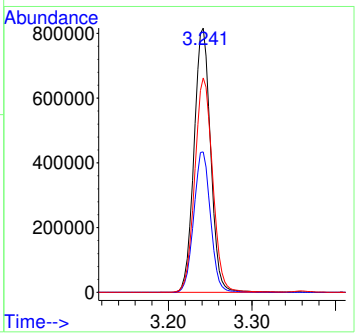


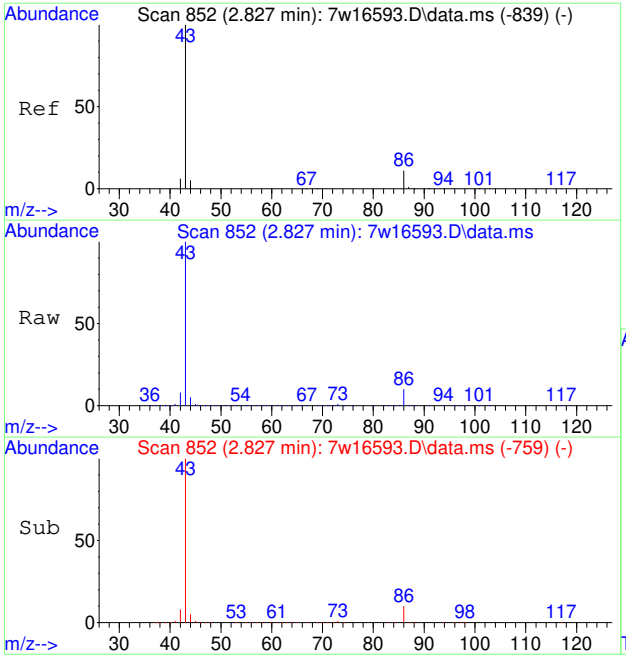


#38
HEXANE
Concen: 50.43 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1126153

Ion	Ratio	Lower	Upper
57	100		
56	53.9	38.0	70.6
41	87.4	65.9	122.5

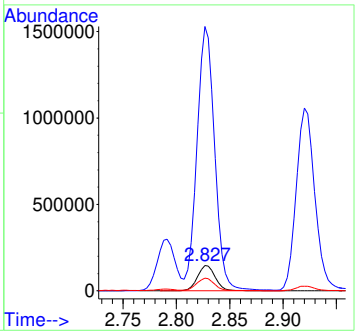


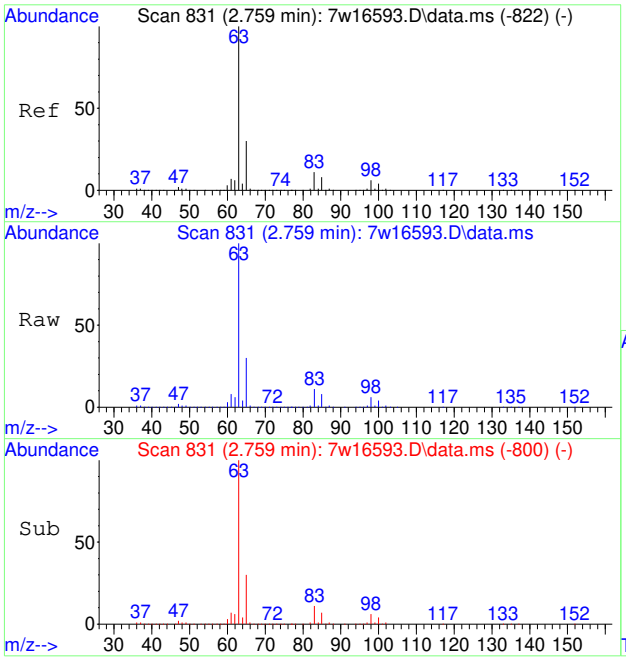


#39
VINYL ACETATE
Concen: 54.22 PPBV
RT: 2.827 min Scan# 852
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 86 Resp: 168950

Ion	Ratio	Lower	Upper
86	100		
43	1048.9	758.7	1408.9
44	50.4	39.5	73.3

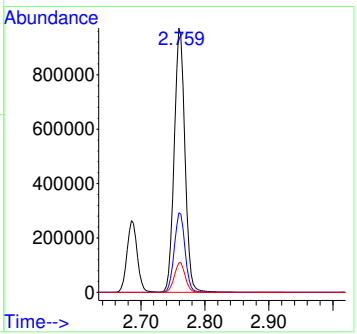


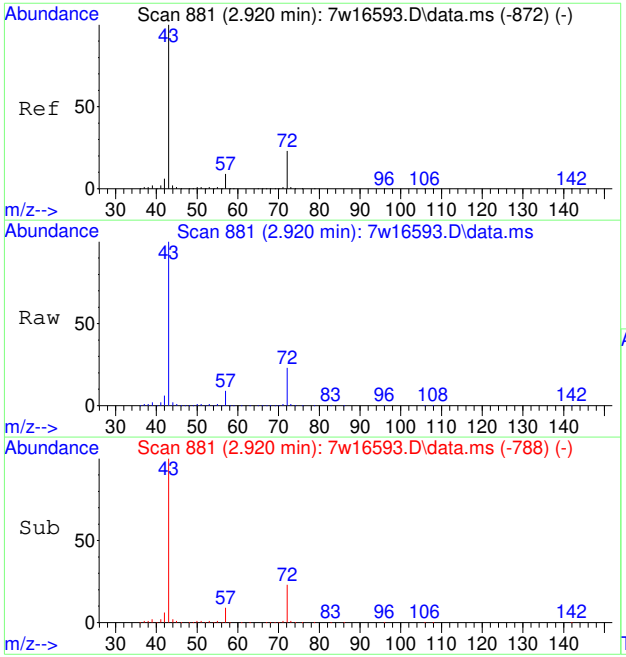


#40
1,1-DICHLOROETHANE
Concen: 50.17 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 1126676

Ion	Ratio	Lower	Upper
63	100		
65	30.4	21.4	39.8
83	11.6	8.3	15.5

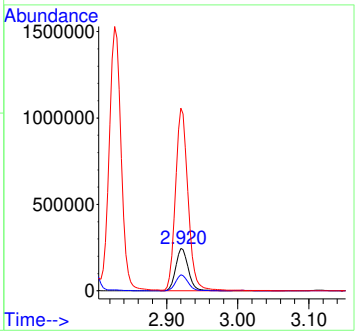


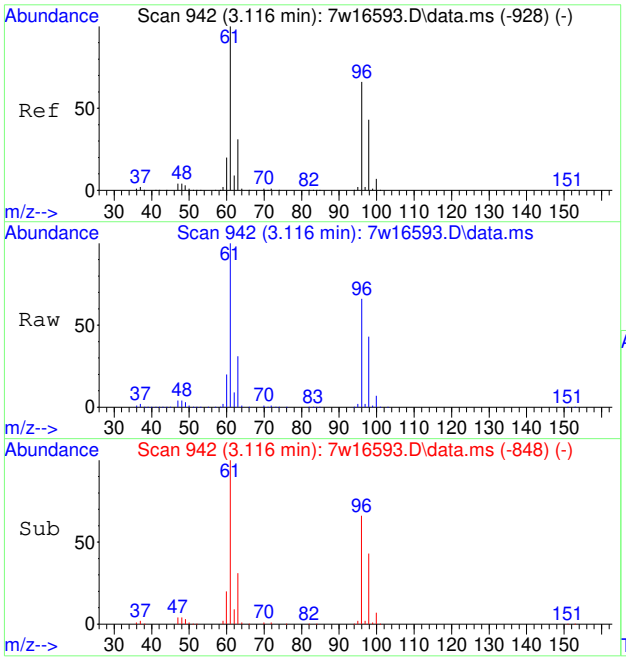


#41
METHYL ETHYL KETONE
Concen: 49.43 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 72 Resp: 301446

Ion	Ratio	Lower	Upper
72	100		
57	37.5	26.9	49.9
43	433.3	309.4	574.6

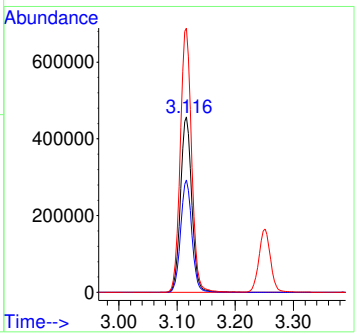


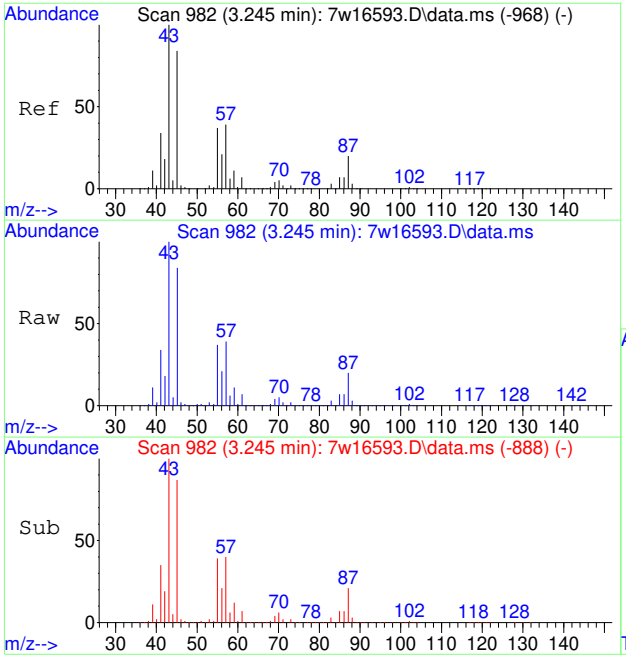


#42
CIS-1,2-DICHLOROETHENE
Concen: 51.36 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 96 Resp: 616786

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	151.0	107.3	199.3

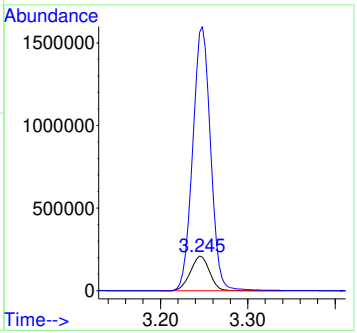


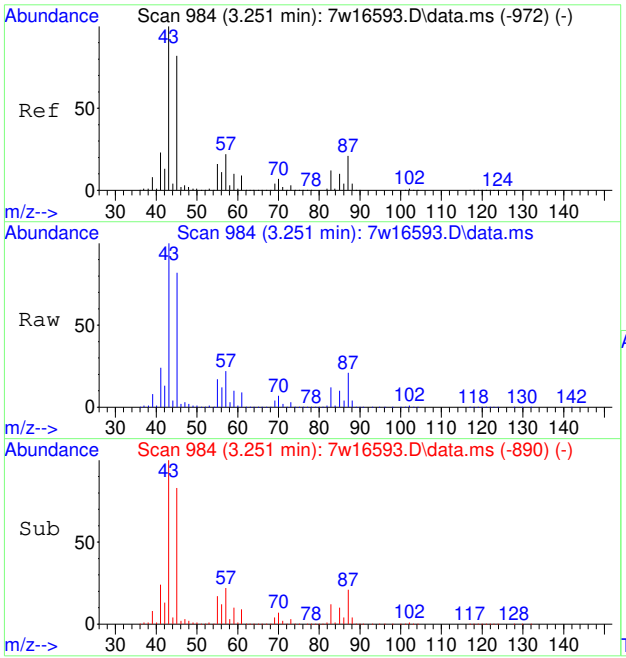


#43
DIISOPROPYL ETHER
Concen: 51.01 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 59 Resp: 322160

Ion	Ratio	Lower	Upper
59	100		
45	709.9	517.6	961.2

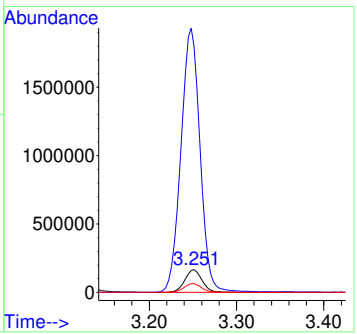


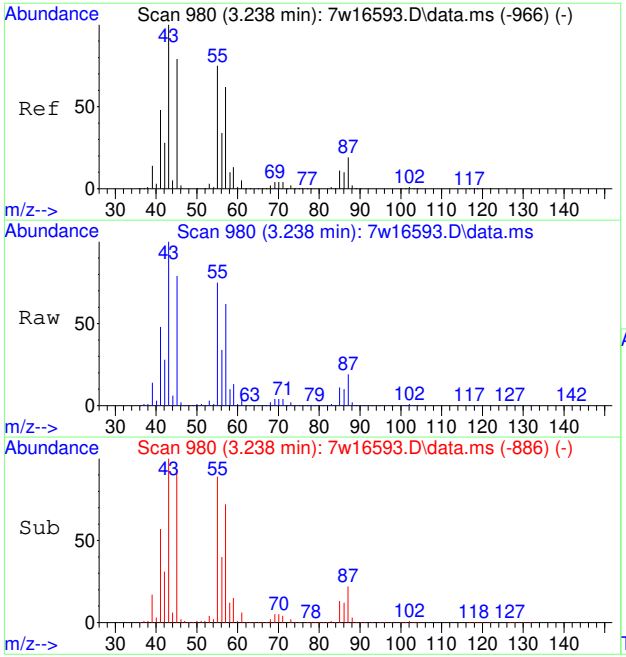


#44
ETHYL ACETATE
Concen: 54.48 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 61 Resp: 229745

Ion	Ratio	Lower	Upper
61	100		
43	1283.3	955.4	1774.4
88	40.0	27.6	51.2

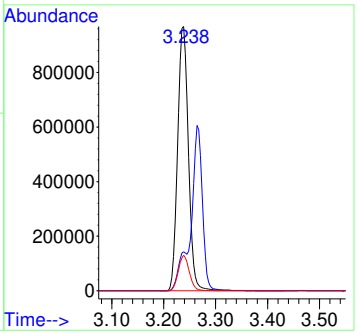


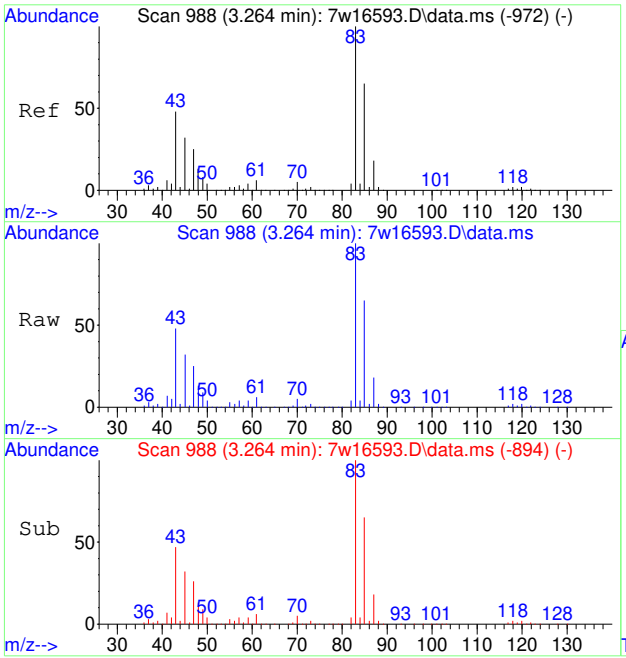


#45
METHYL ACRYLATE
Concen: 51.53 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1386411

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

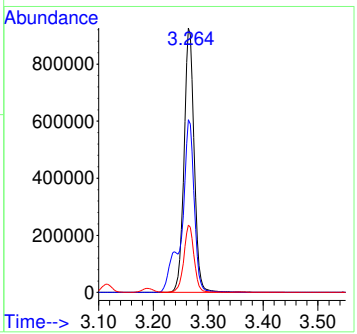


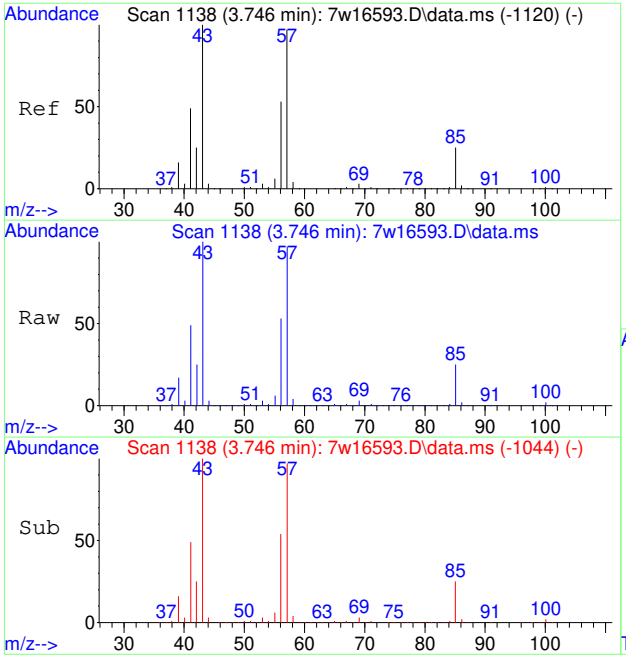


#46
CHLOROFORM
Concen: 50.69 PPBV
RT: 3.264 min Scan# 988
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1180563

Ion	Ratio	Lower	Upper
83	100		
85	81.2	56.0	104.0
47	25.9	19.0	35.4

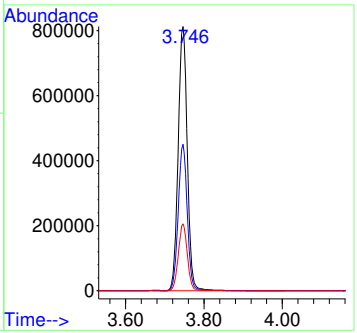


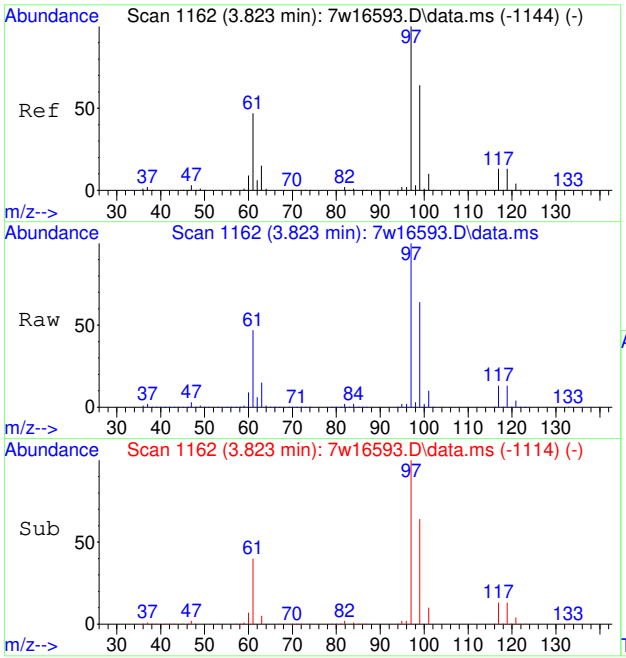


#47
2,4-DIMETHYLPENTANE
Concen: 52.75 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 1310498

Ion	Ratio	Lower	Upper
57	100		
56	55.2	38.4	71.2
85	25.0	17.5	32.5

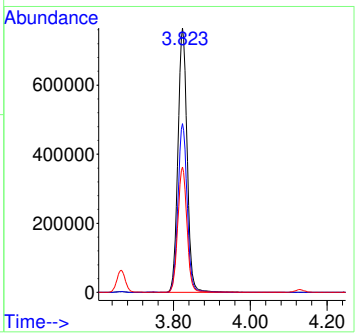


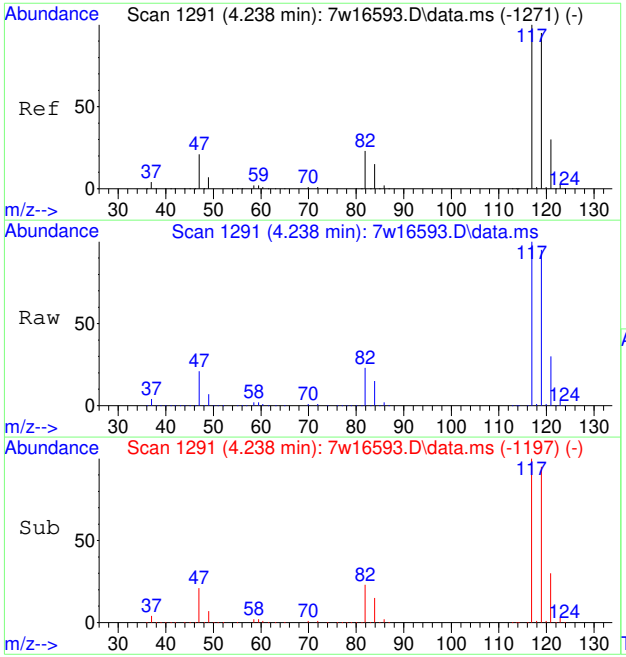


#48
1,1,1-TRICHLOROETHANE
Concen: 51.99 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 97 Resp: 1267195

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.0	83.6
61	47.8	34.7	64.5

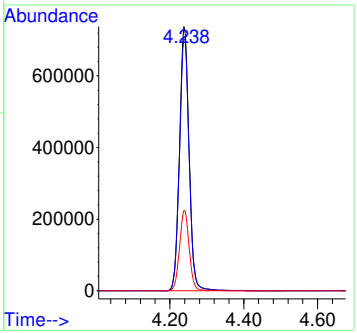


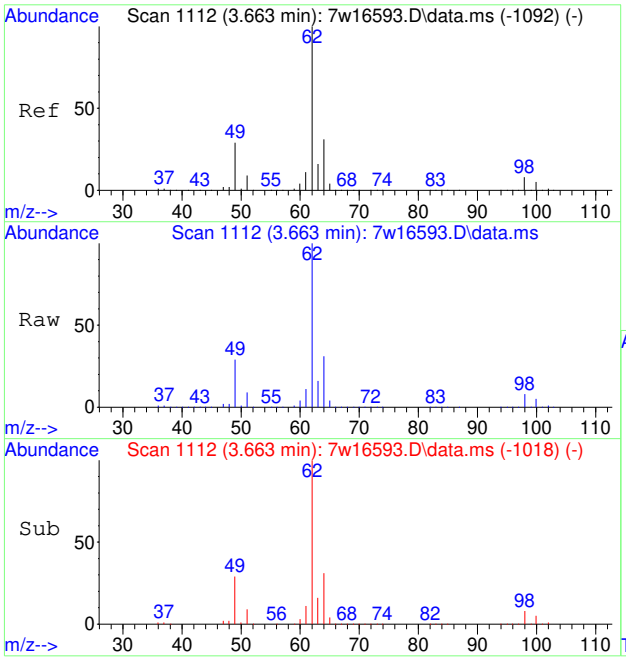


#49
CARBON TETRACHLORIDE
Concen: 53.55 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1338340

Ion	Ratio	Lower	Upper
117	100		
119	96.5	67.5	125.3
121	30.7	21.3	39.5

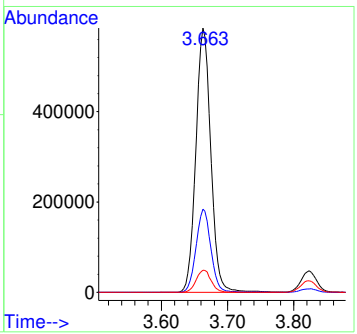


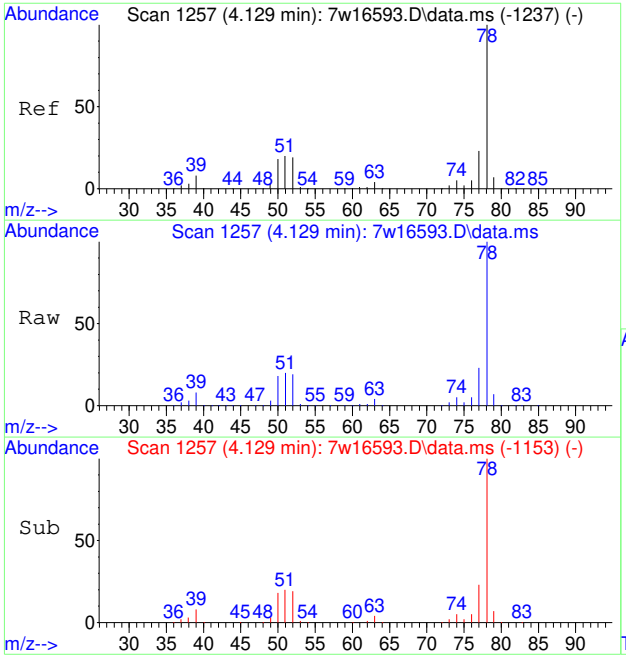


#50
1,2-DICHLOROETHANE
Concen: 51.11 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 62 Resp: 918746

Ion	Ratio	Lower	Upper
62	100		
64	31.3	21.8	40.6
98	8.5	5.8	10.8

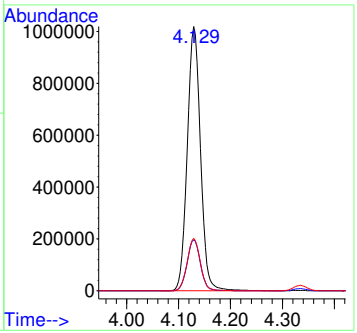


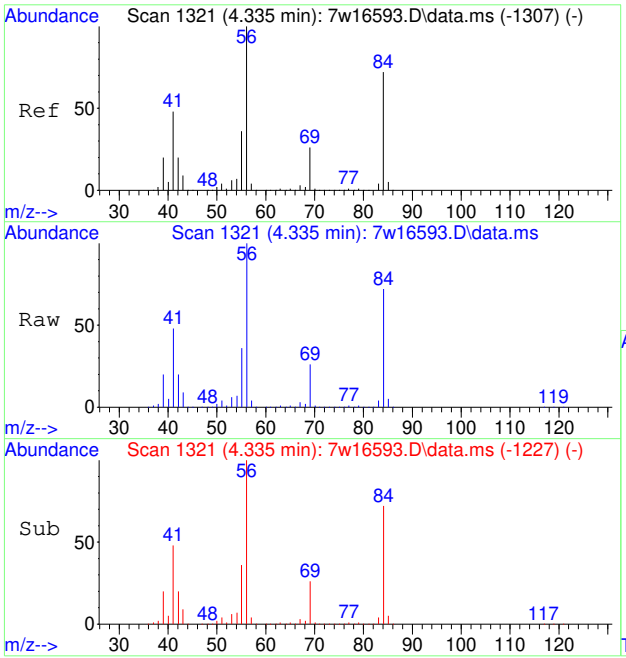


#51
BENZENE
Concen: 50.31 PPBV
RT: 4.129 min Scan# 1257
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 78 Resp: 1795488

Ion	Ratio	Lower	Upper
78	100		
52	19.6	0.0	49.9
51	19.9	0.0	50.6

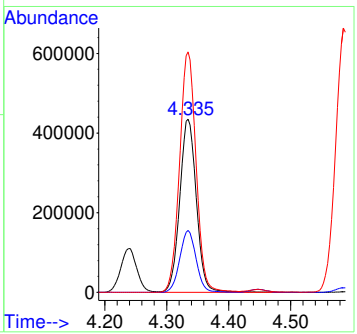


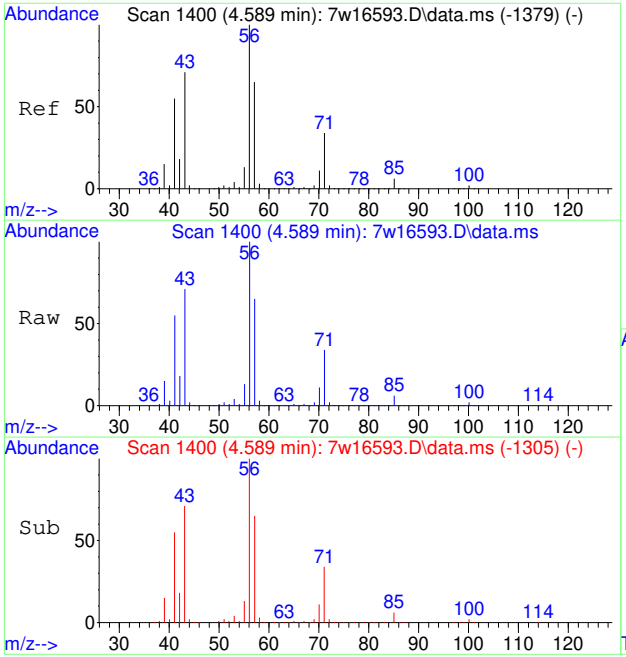


#53
CYCLOHEXANE
Concen: 52.10 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 84 Resp: 810673

Ion	Ratio	Lower	Upper
84	100		
69	35.2	24.6	45.6
56	138.1	96.4	179.0

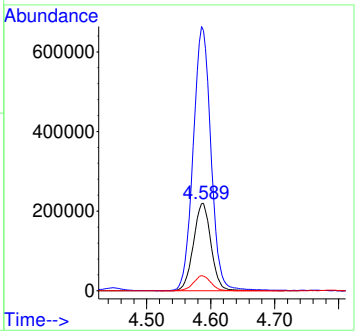


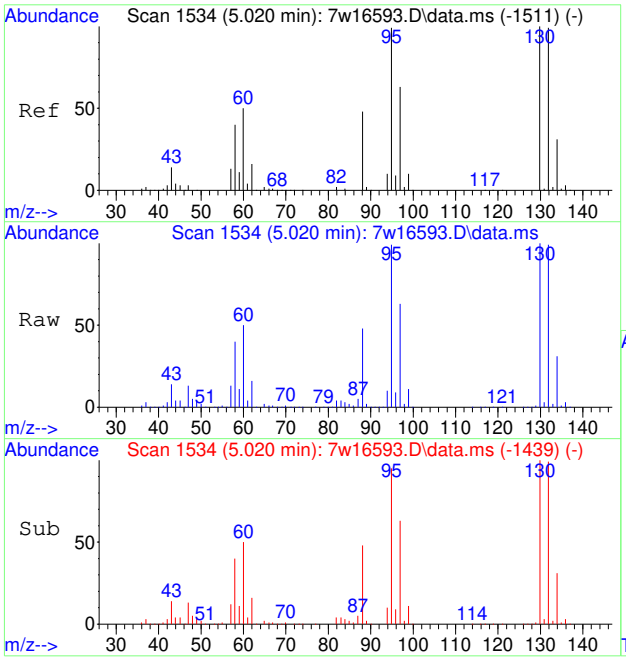


#54
2,3-DIMETHYLPENTANE
Concen: 54.59 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 71 Resp: 421378

Ion	Ratio	Lower	Upper
71	100		
56	303.1	213.2	396.0
85	17.4	12.2	22.6

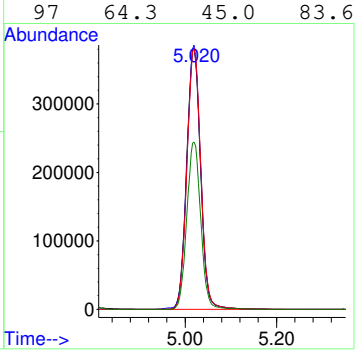


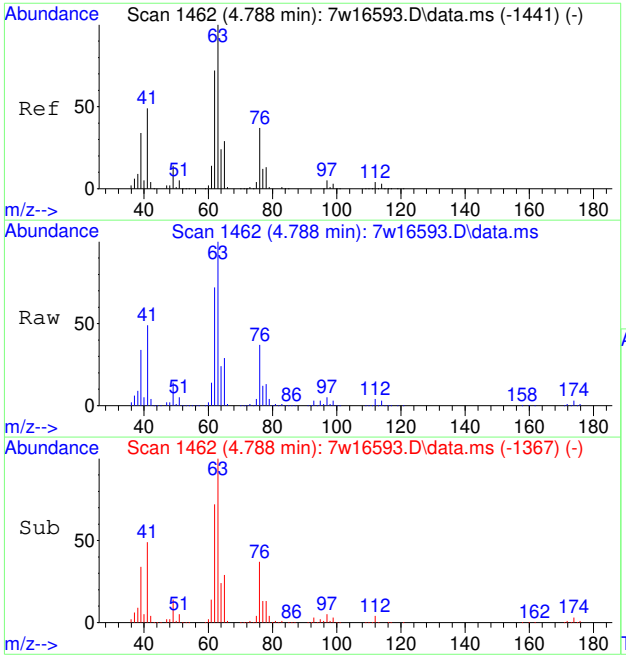


#55
TRICHLOROETHENE
Concen: 48.49 PPBV
RT: 5.020 min Scan# 1534
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 95 Resp: 808299

Ion	Ratio	Lower	Upper
95	100		
130	100.6	69.4	129.0
132	99.7	69.4	128.8
97	64.3	45.0	83.6

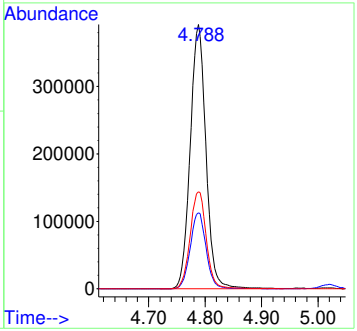


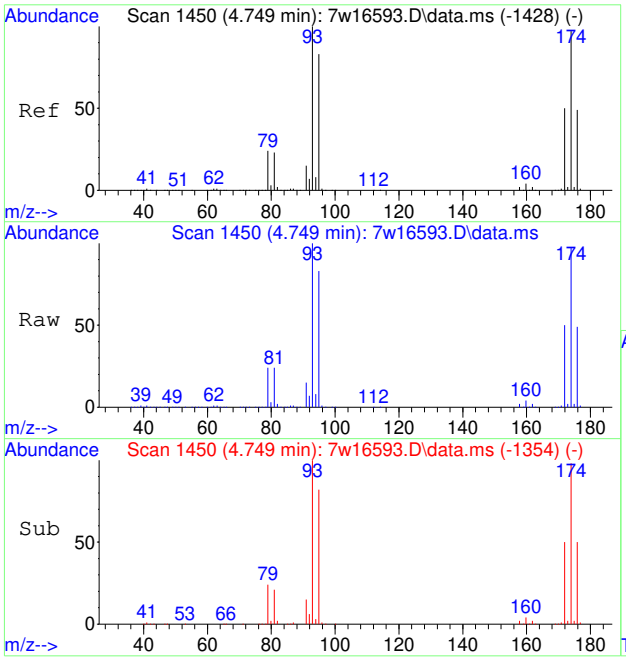


#56
1,2-DICHLOROPROPANE
Concen: 51.61 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 63 Resp: 756985

Ion	Ratio	Lower	Upper
63	100		
65	29.2	20.5	38.1
76	37.6	27.1	50.3

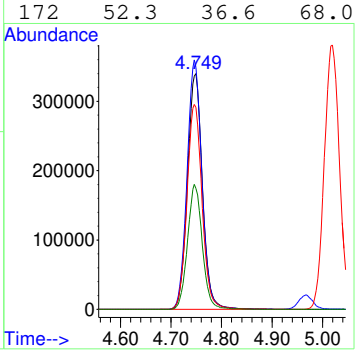


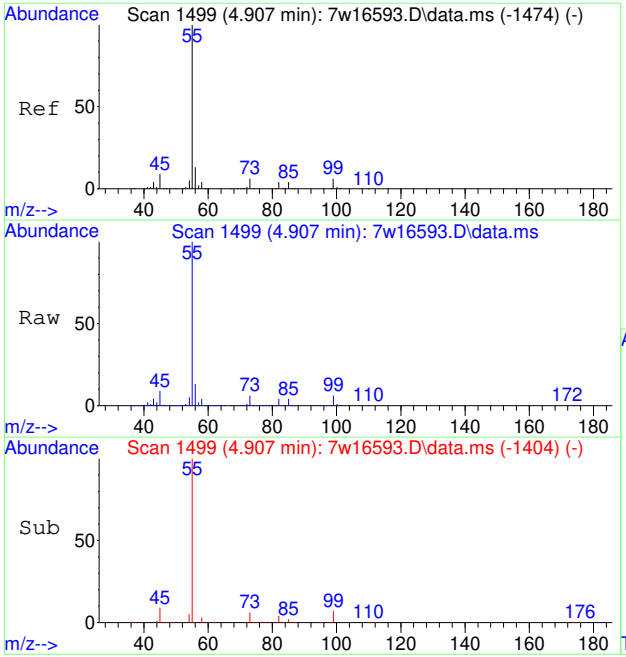


#57
DIBROMOMETHANE
Concen: 49.34 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:174 Resp: 703285

Ion	Ratio	Lower	Upper
174	100		
93	105.1	75.3	139.9
95	87.9	62.4	115.8
172	52.3	36.6	68.0

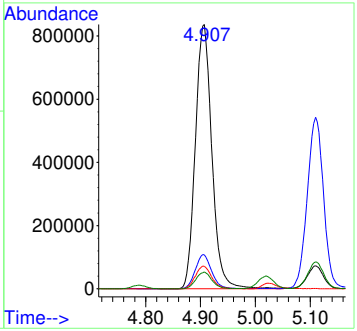


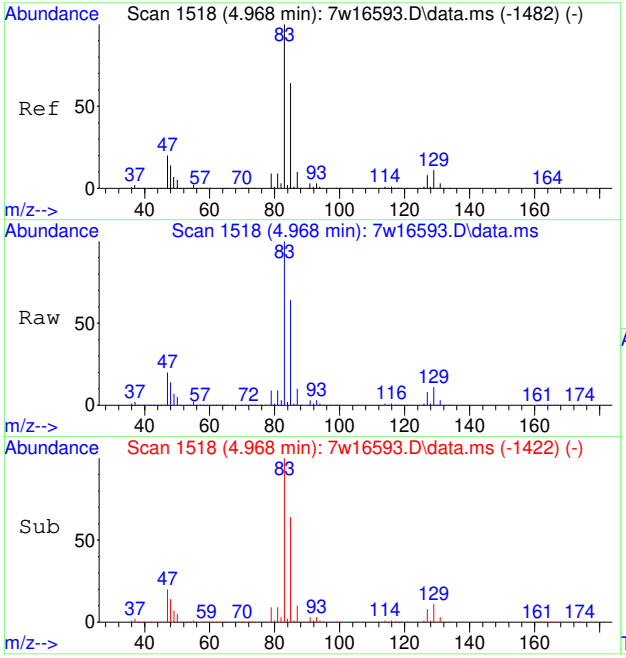


#58
ETHYL ACRYLATE
Concen: 53.53 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 55 Resp: 1751040

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.6	6.1	11.3
99	6.2	4.3	8.1

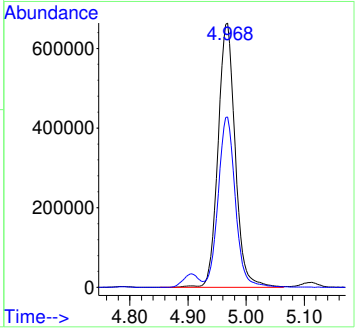


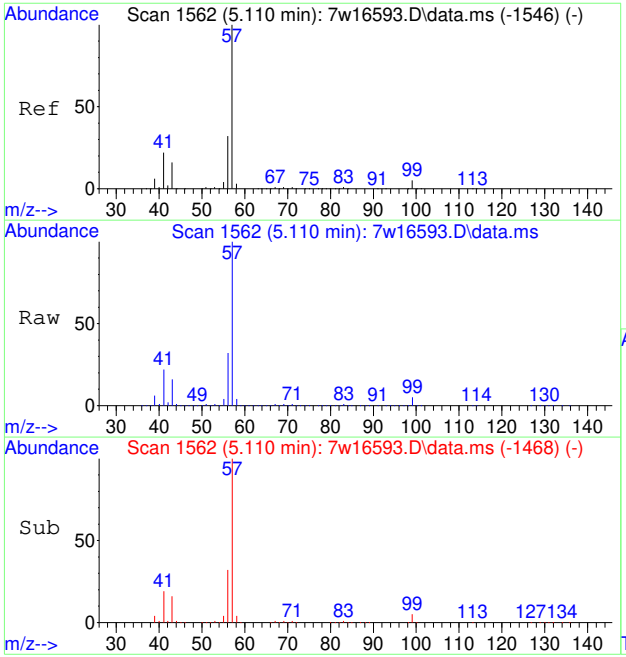


#59
BROMODICHLOROMETHANE
Concen: 51.19 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1363903

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.6	84.8

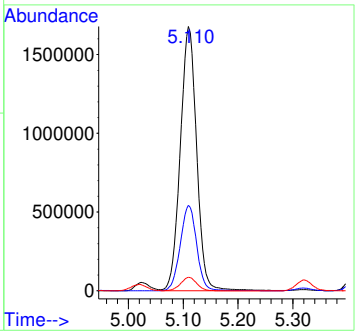


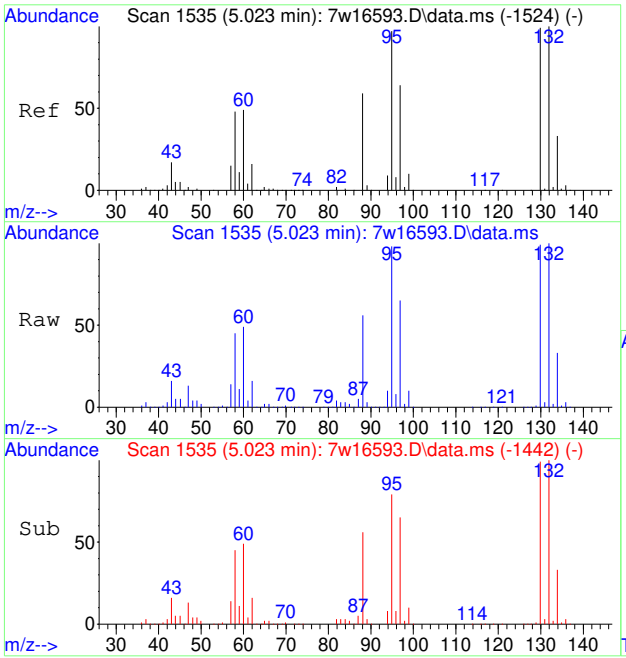


#60
2,2,4-TRIMETHYLPENTANE
Concen: 47.72 PPBV
RT: 5.110 min Scan# 1562
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 57 Resp: 3474233

Ion	Ratio	Lower	Upper
57	100		
56	32.4	22.6	42.0
99	5.1	3.6	6.8

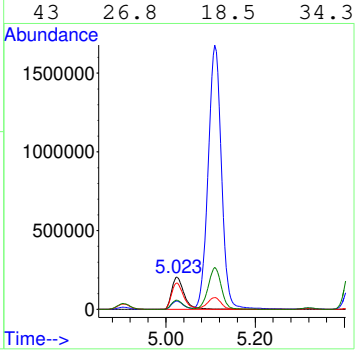


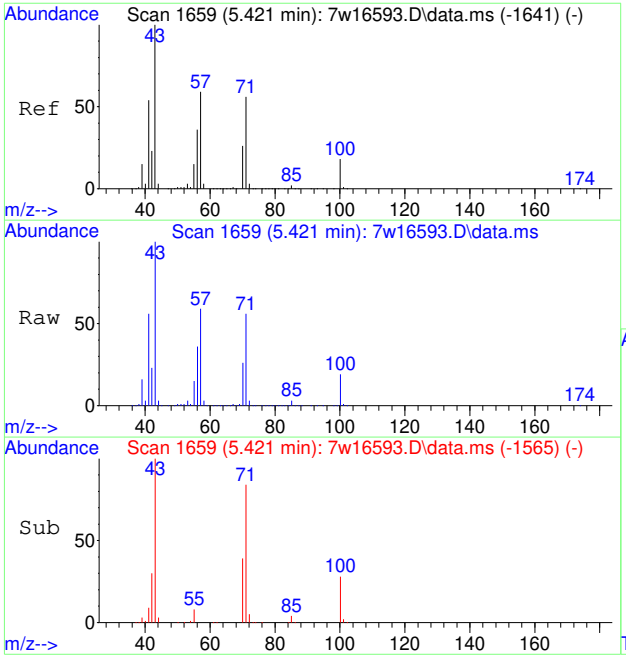


#61
1,4-DIOXANE
Concen: 51.97 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 88 Resp: 402995

Ion	Ratio	Lower	Upper
88	100		
57	24.0	16.7	30.9
58	77.9	52.4	97.4
43	26.8	18.5	34.3

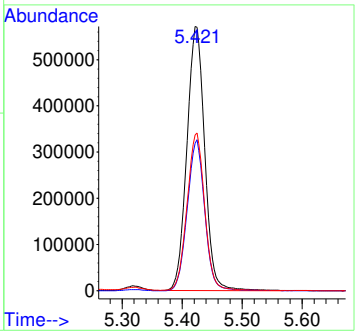


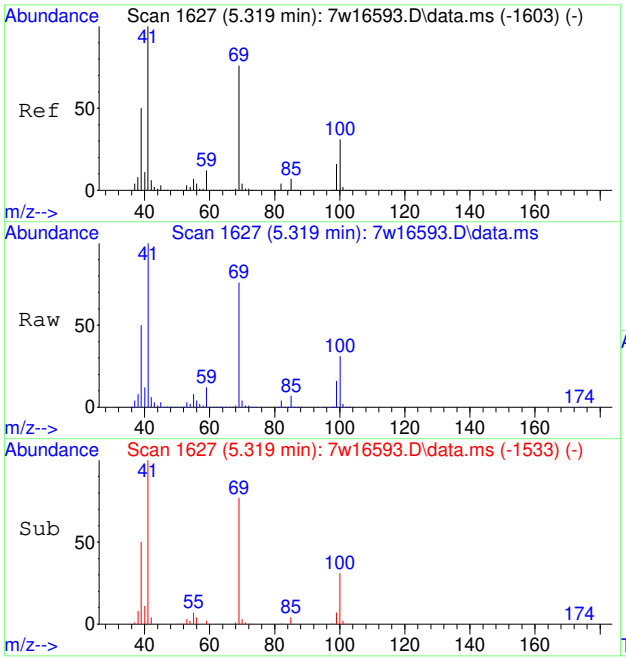


#62
HEPTANE
Concen: 49.34 PPBV
RT: 5.421 min Scan# 1659
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1183014

Ion	Ratio	Lower	Upper
43	100		
71	56.1	38.9	72.2
57	59.0	40.5	75.3

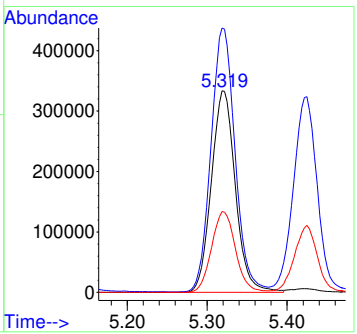


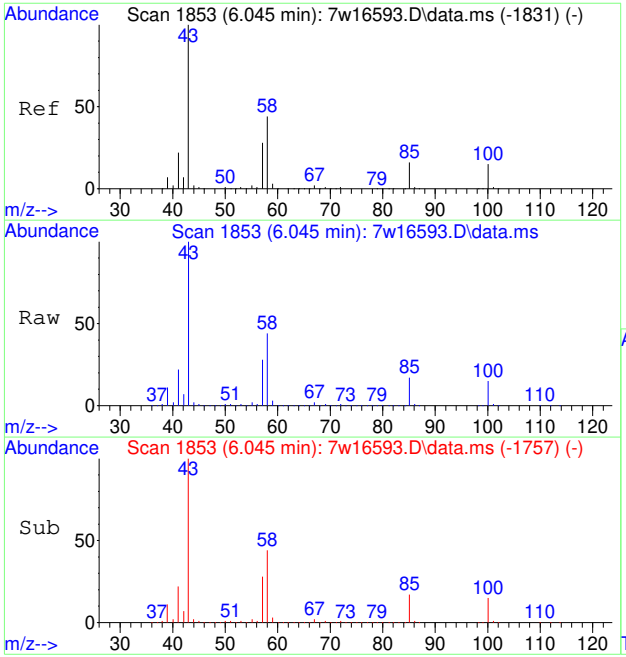


#63
METHYL METHACRYLATE
Concen: 52.38 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 696280

Ion	Ratio	Lower	Upper
69	100		
41	130.9	95.5	177.4
100	40.0	28.1	52.1

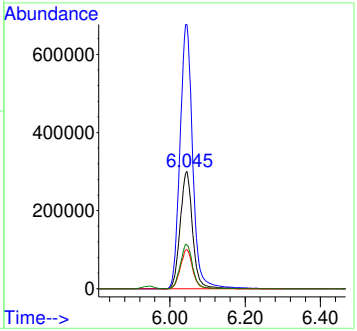


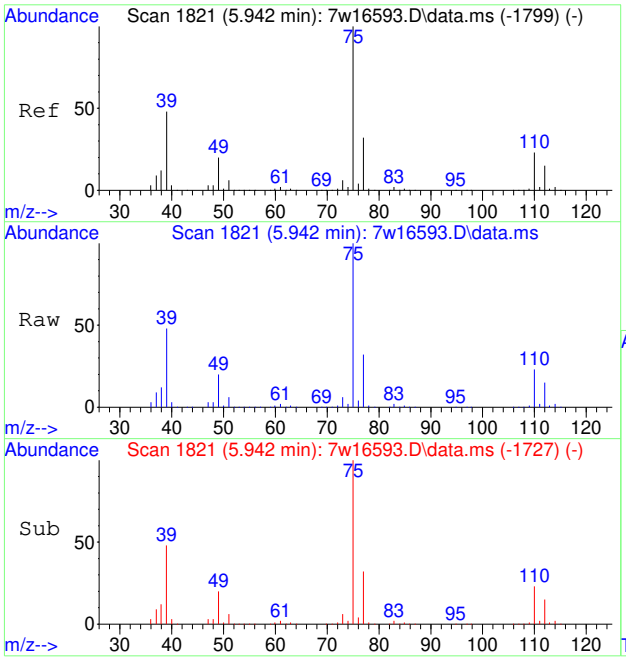


#64
METHYL ISOBUTYL KETONE
Concen: 48.13 PPBV
RT: 6.045 min Scan# 1853
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 692709

Ion	Ratio	Lower	Upper
58	100		
43	229.1	163.8	304.2
100	33.4	23.2	43.2
85	38.0	26.5	49.3

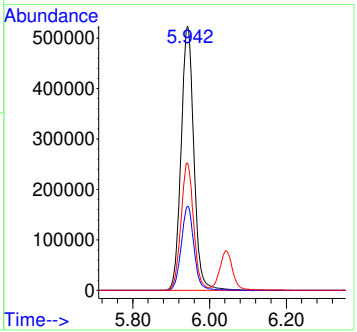


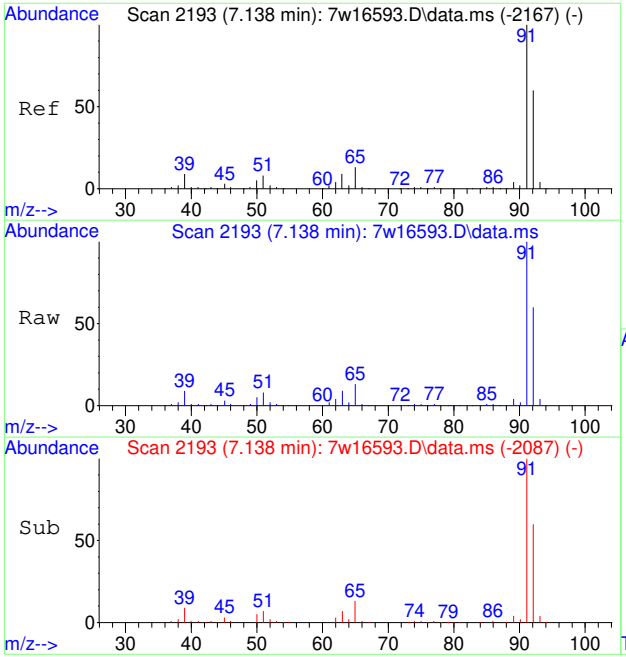


#65
CIS-1,3-DICHLOROPROPENE
Concen: 54.68 PPBV
RT: 5.942 min Scan# 1821
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1209649

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.0	41.0
39	47.8	35.7	66.3

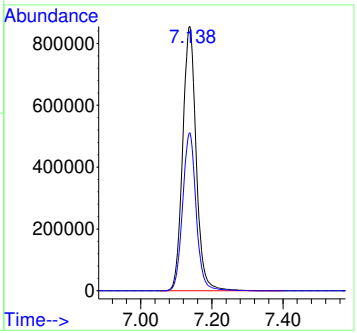


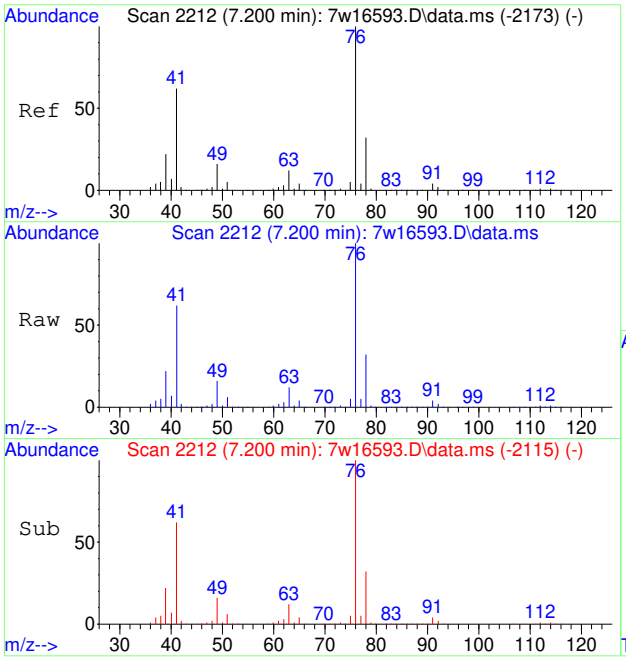


#66
TOLUENE
Concen: 53.54 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2257380

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

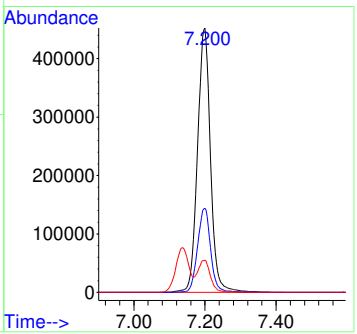


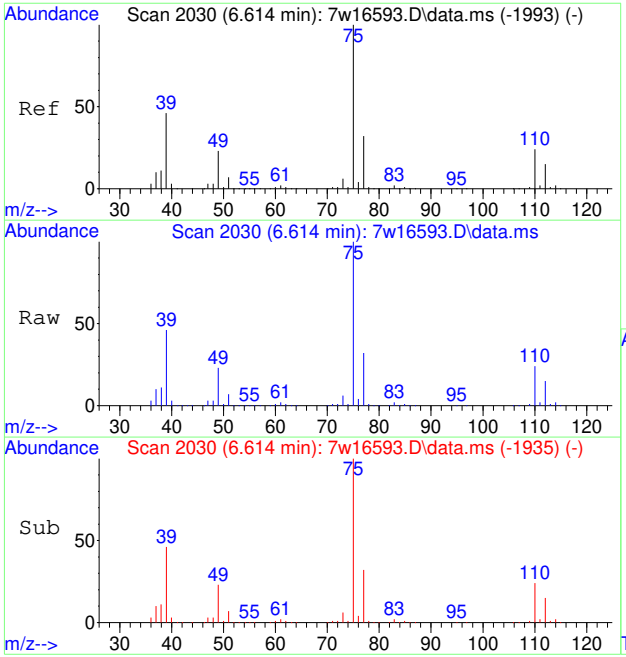


#67
1,3-DICHLOROPROPANE
Concen: 54.57 PPBV
RT: 7.200 min Scan# 2212
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 76 Resp: 1150031

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	11.7	8.3	15.5

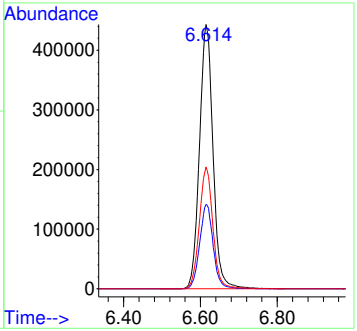


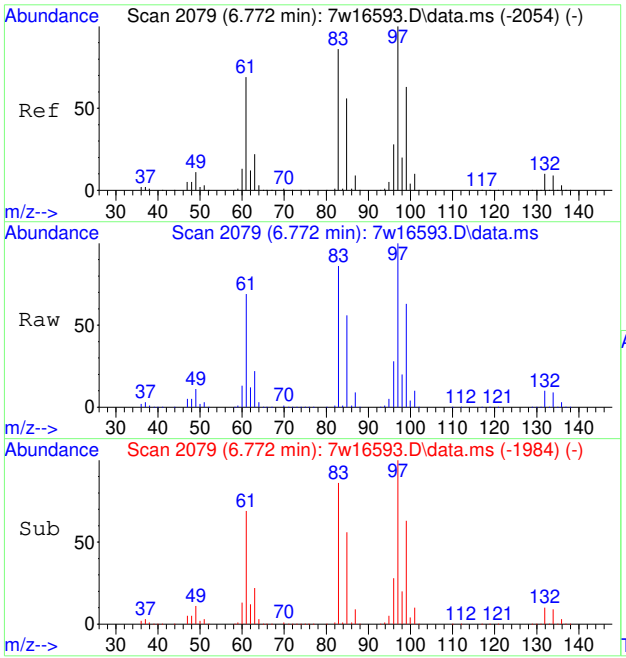


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 55.09 PPBV
RT: 6.614 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1086853

Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.3	41.5
39	46.3	33.9	63.0

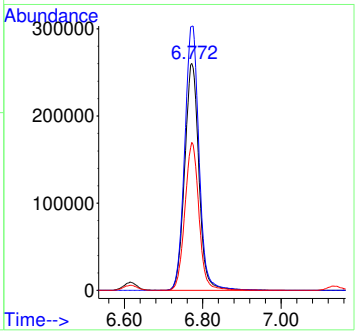


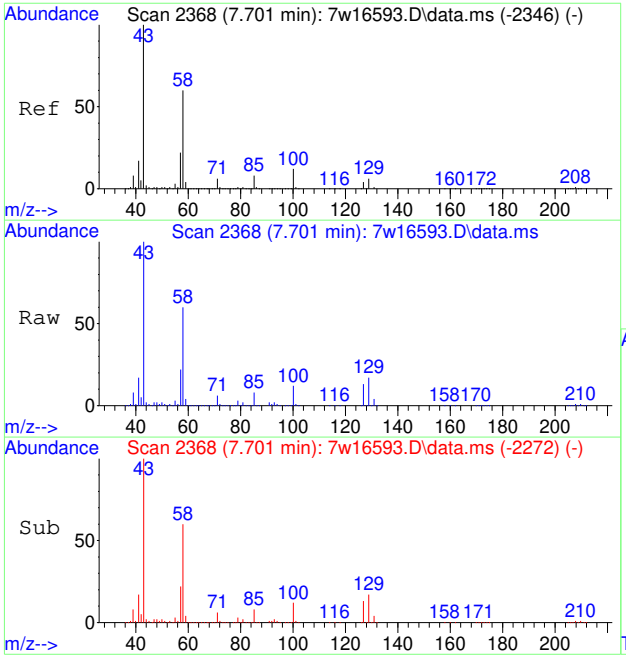


#69
1,1,2-TRICHLOROETHANE
Concen: 55.07 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 657452

Ion	Ratio	Lower	Upper
83	100		
97	117.1	81.2	150.8
85	64.6	45.1	83.7

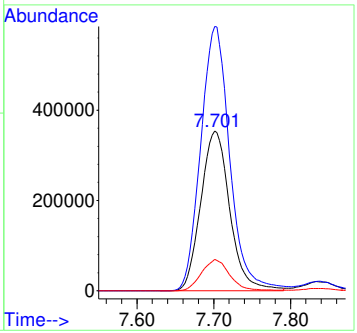


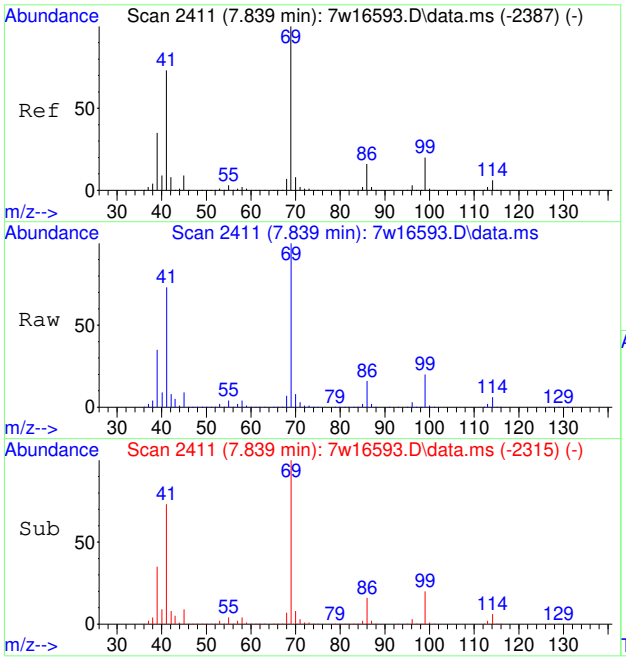


#70
2-HEXANONE
Concen: 45.78 PPBV
RT: 7.701 min Scan# 2368
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 58 Resp: 931287

Ion	Ratio	Lower	Upper
58	100		
43	165.4	118.6	220.2
100	19.1	13.0	24.2

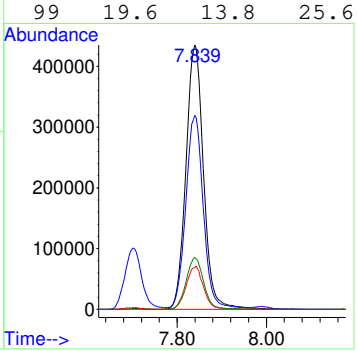


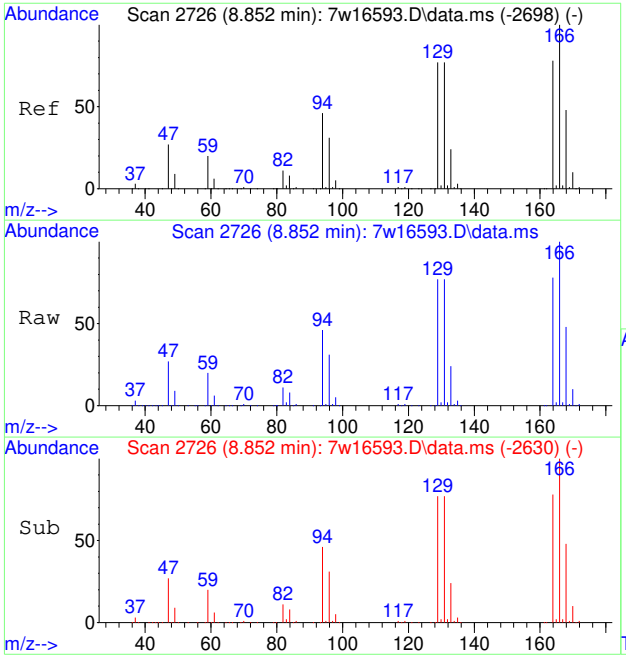


#71
ETHYL METHACRYLATE
Concen: 54.01 PPBV
RT: 7.839 min Scan# 2411
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 69 Resp: 1191952

Ion	Ratio	Lower	Upper
69	100		
41	73.7	53.6	99.6
86	16.2	11.3	20.9
99	19.6	13.8	25.6

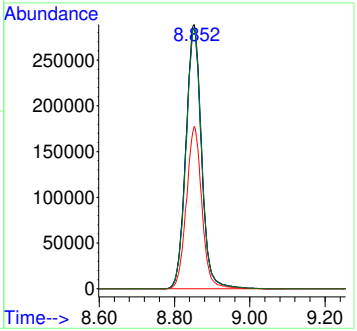


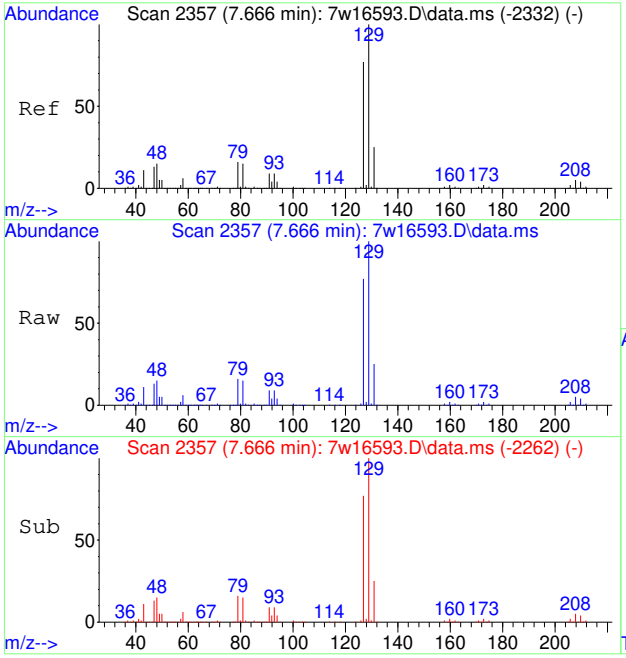


#72
TETRACHLOROETHENE
Concen: 54.58 PPBV
RT: 8.852 min Scan# 2726
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:164 Resp: 838148

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.1	69.4	129.0

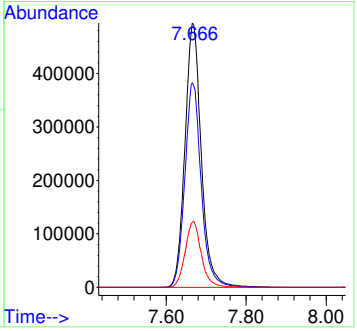


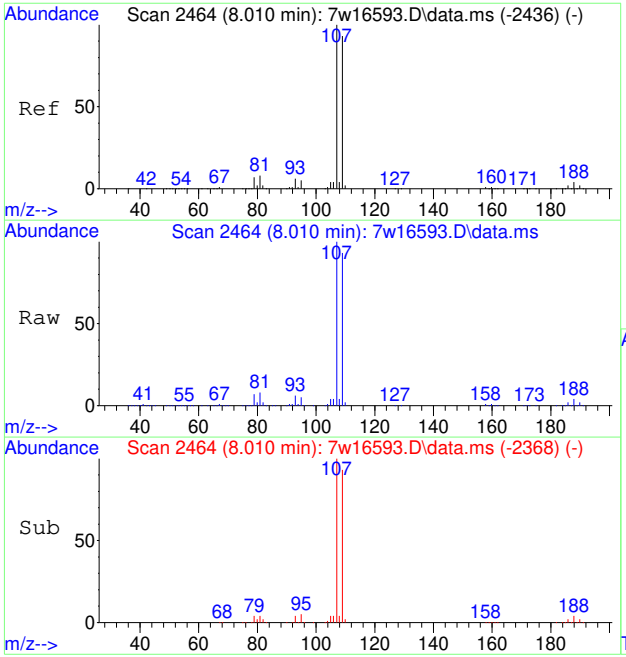


#73
DIBROMOCHLOROMETHANE
Concen: 58.86 PPBV
RT: 7.666 min Scan# 2357
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:129 Resp: 1403452

Ion	Ratio	Lower	Upper
129	100		
127	77.8	54.7	101.7
131	24.8	17.4	32.4

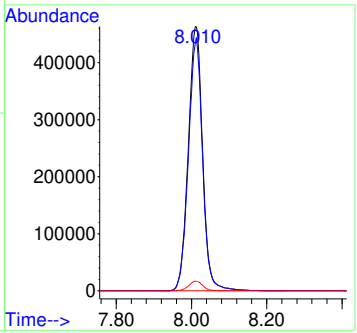


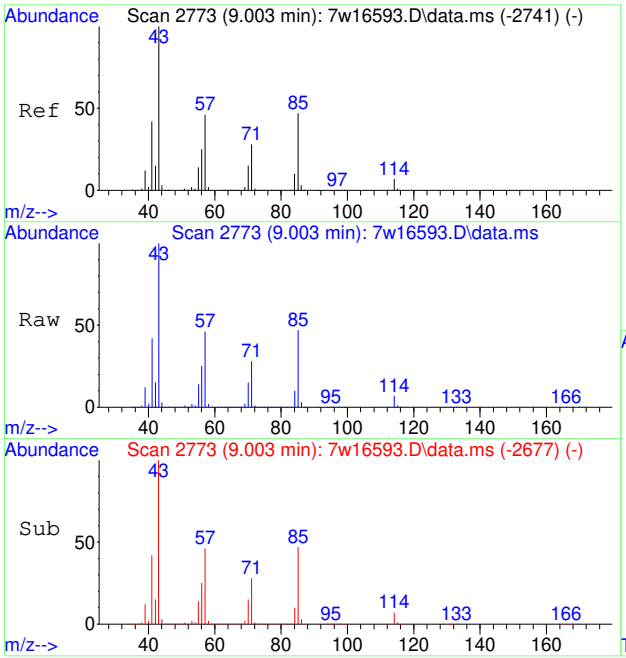


#74
1,2-DIBROMOETHANE
Concen: 56.46 PPBV
RT: 8.010 min Scan# 2464
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:107 Resp: 1223967

Ion	Ratio	Lower	Upper
107	100		
109	94.2	66.1	122.8
188	3.6	2.5	4.6

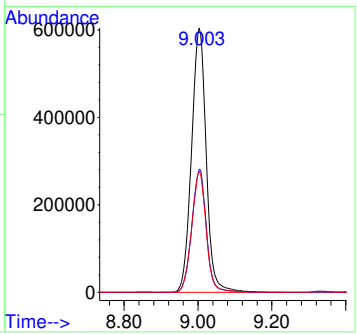


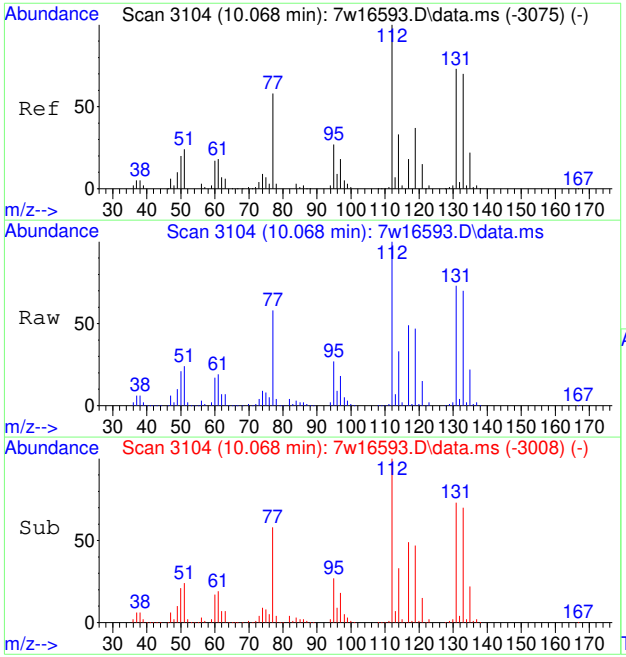


#75
OCTANE
Concen: 52.30 PPBV
RT: 9.003 min Scan# 2773
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1670114

Ion	Ratio	Lower	Upper
43	100		
85	46.2	31.8	59.0
57	45.2	31.4	58.2

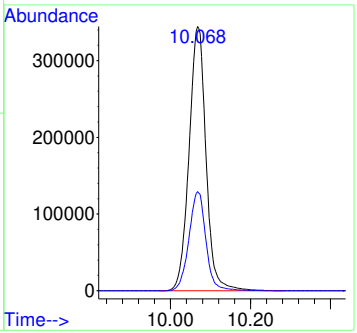


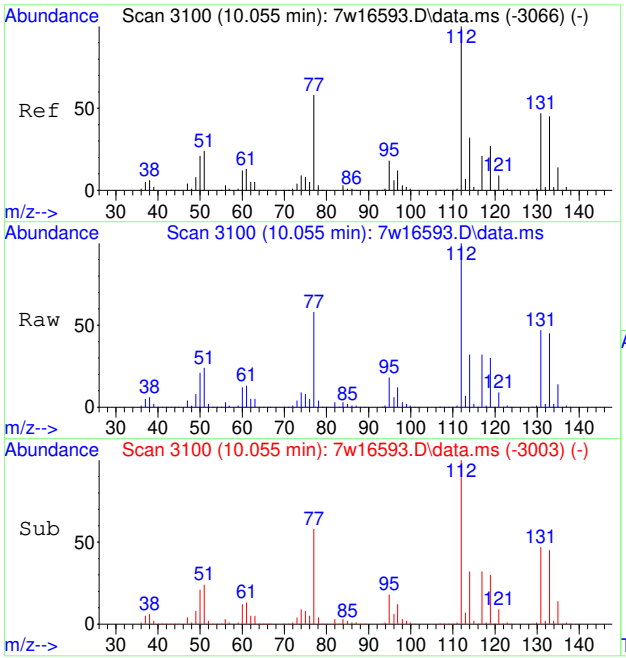


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 57.95 PPBV
RT: 10.068 min Scan# 3104
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:131 Resp: 1014574

Ion	Ratio	Lower	Upper
131	100		
95	37.6	26.5	49.1

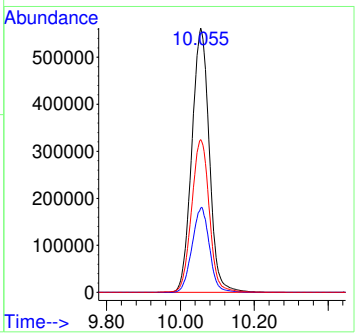


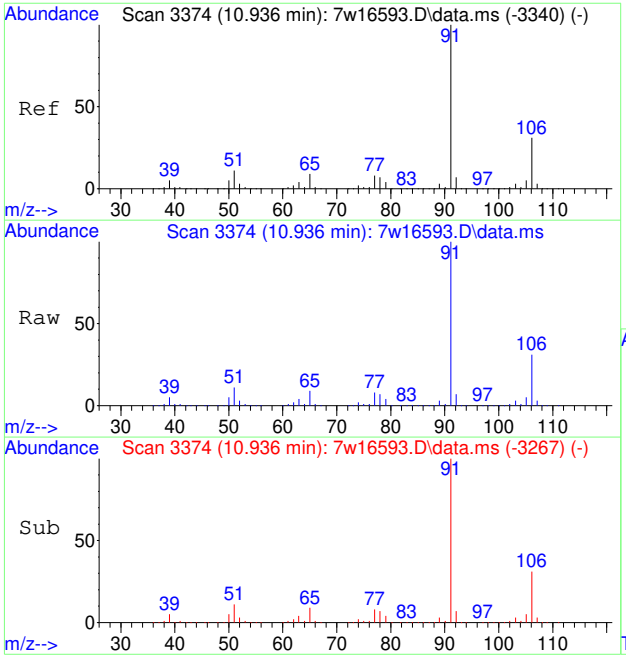


#78
CHLOROBENZENE
Concen: 54.82 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:112 Resp: 1847440

Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.5	41.7
77	58.8	42.1	78.1

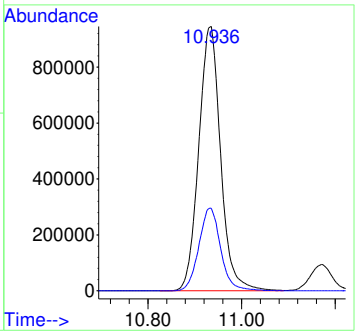


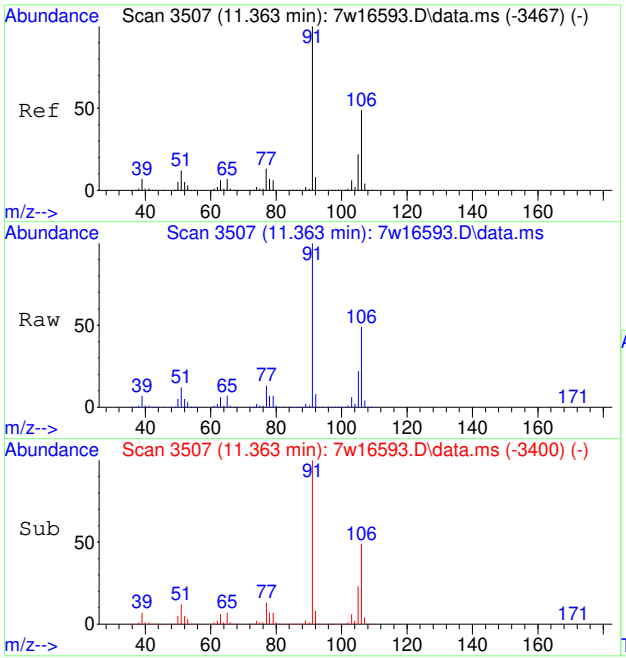


#79
ETHYLBENZENE
Concen: 55.49 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 3062670

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

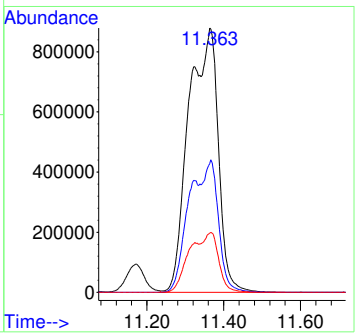


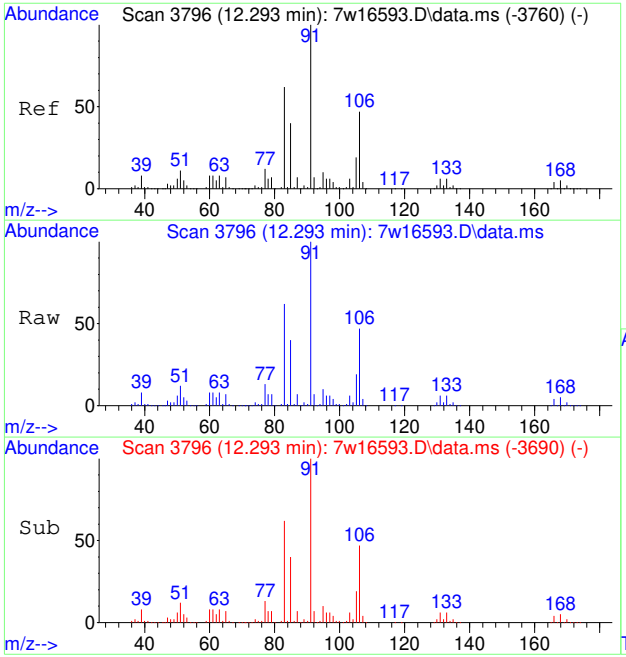


#80
M,P-XYLENE
Concen: 104.27 PPBV
RT: 11.363 min Scan# 3507
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 4688509

Ion	Ratio	Lower	Upper
91	100		
106	27.6	0.0	56.1
105	22.5	0.0	42.1

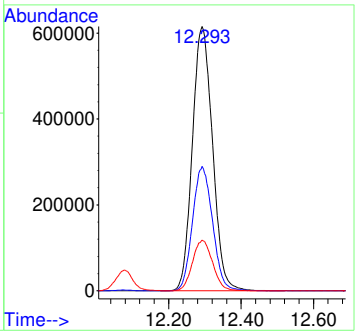


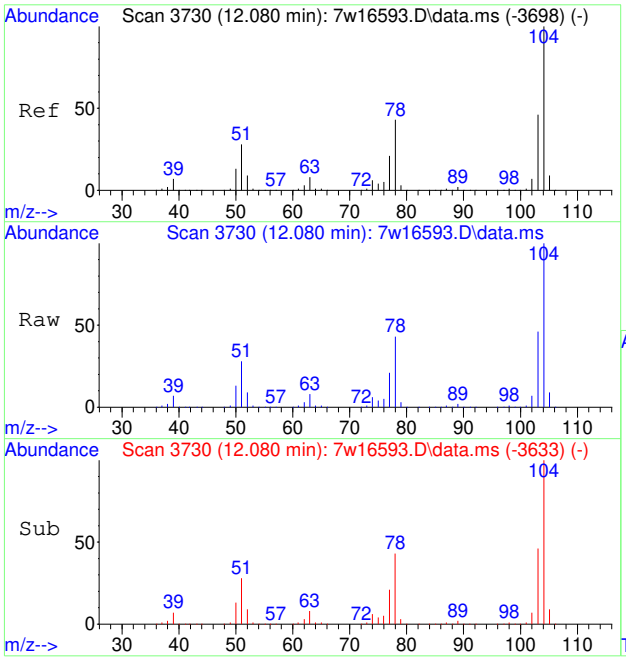


#81
O-XYLENE
Concen: 54.76 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2383048

Ion	Ratio	Lower	Upper
91	100		
106	47.0	31.8	59.0
105	19.2	13.0	24.2

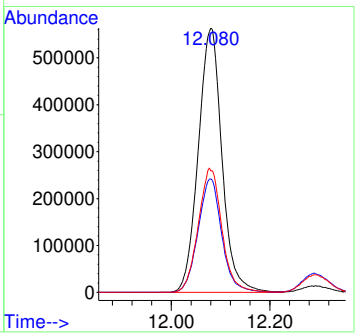


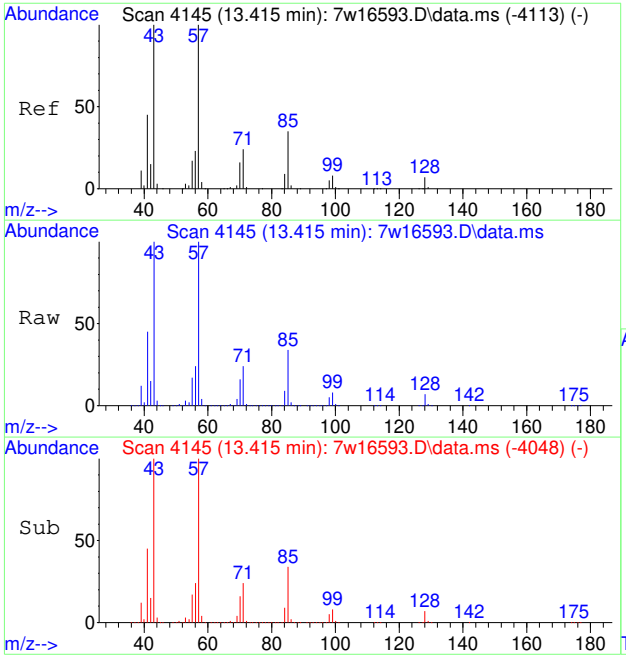


#82
STYRENE
Concen: 58.71 PPBV
RT: 12.080 min Scan# 3730
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:104 Resp: 1884473

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

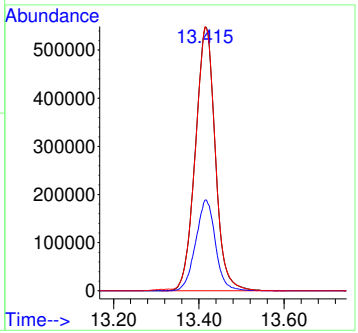


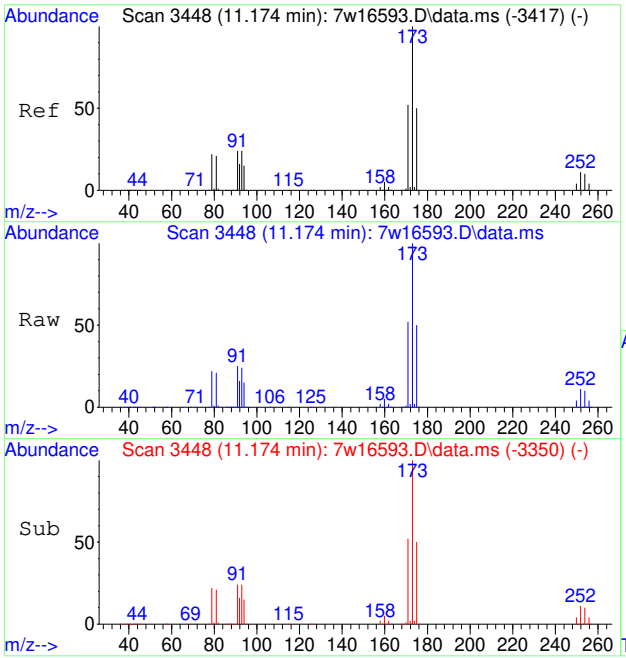


#83
NONANE
Concen: 52.08 PPBV
RT: 13.415 min Scan# 4145
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 43 Resp: 1775546

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.5	69.2	128.6

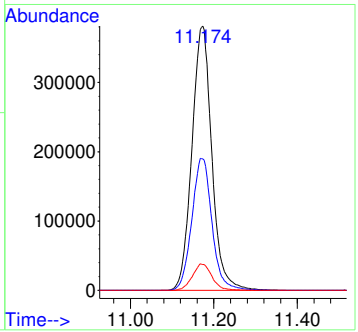


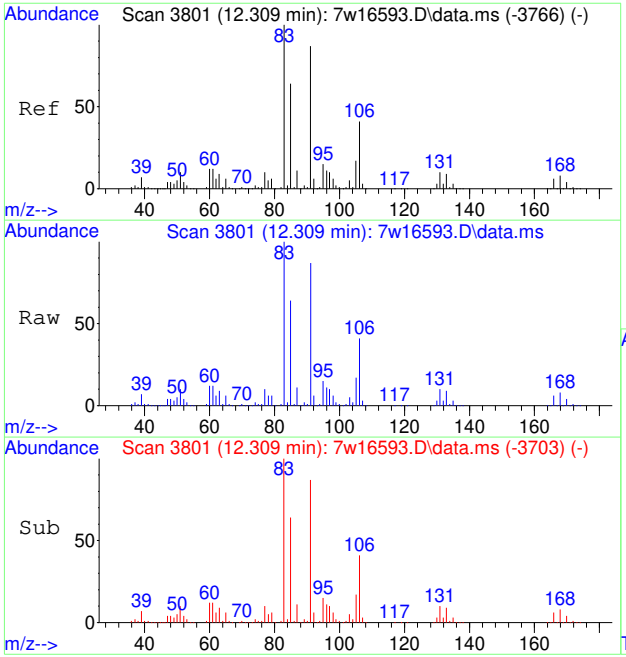


#84
BROMOFORM
Concen: 63.02 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:173 Resp: 1265430

Ion	Ratio	Lower	Upper
173	100		
175	50.6	35.1	65.1
254	10.0	6.7	12.5

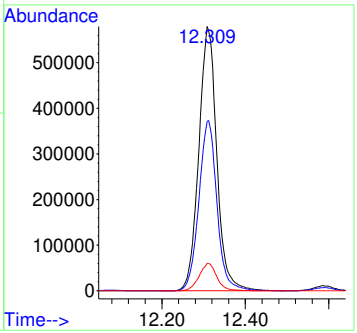


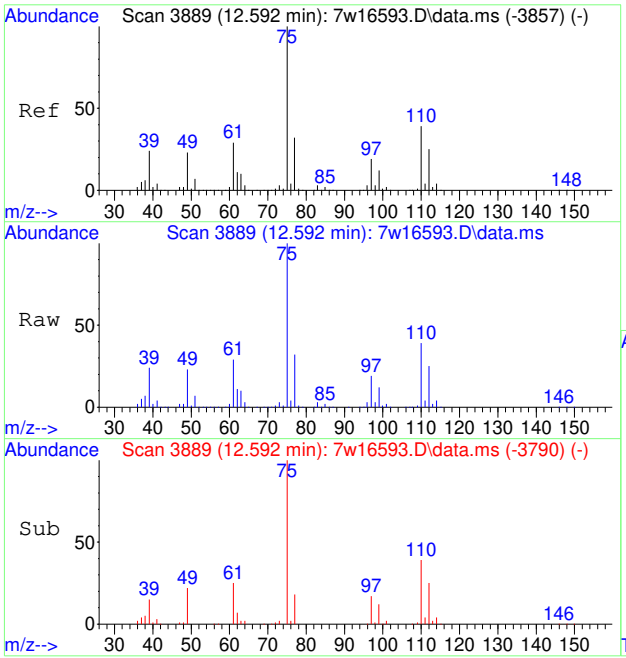


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 55.83 PPBV
RT: 12.309 min Scan# 3801
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 83 Resp: 1733579

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.3	7.3	13.5

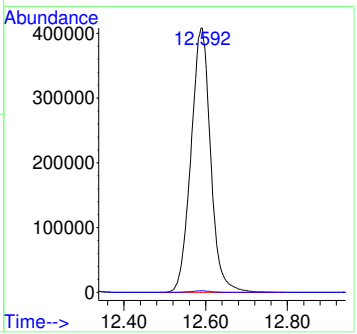


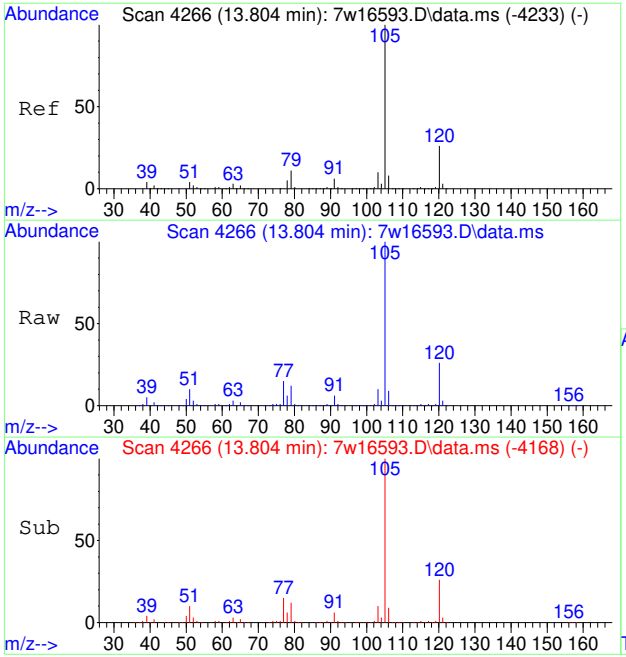


#86
1,2,3-TRICHLOROPROPANE
Concen: 55.93 PPBV
RT: 12.592 min Scan# 3889
Delta R.T. 0.019 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 75 Resp: 1360230

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

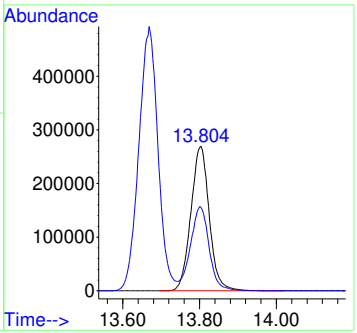


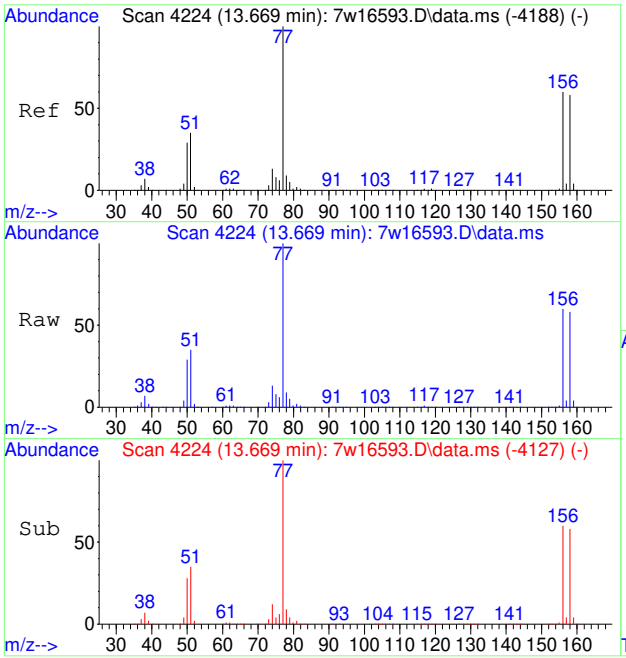


#88
ISOPROPYLBENZENE
Concen: 54.23 PPBV
RT: 13.804 min Scan# 4266
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 894931

Ion	Ratio	Lower	Upper
120	100		
77	59.5	42.5	78.9

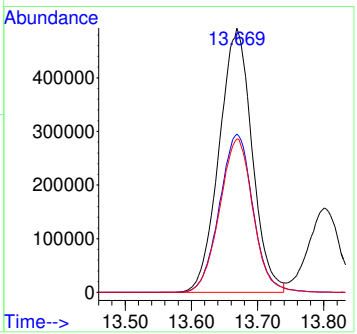


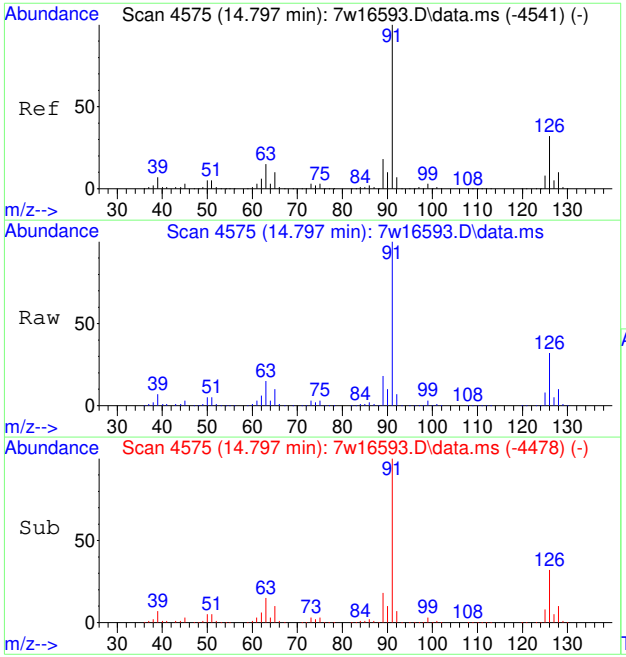


#89
BROMOBENZENE
Concen: 53.56 PPBV
RT: 13.669 min Scan# 4224
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 77 Resp: 1702334

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	59.1	40.9	76.0

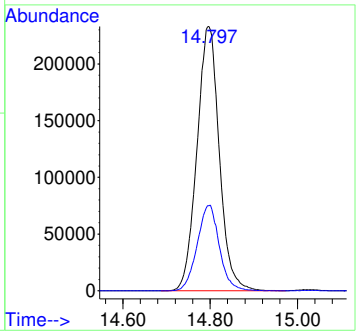


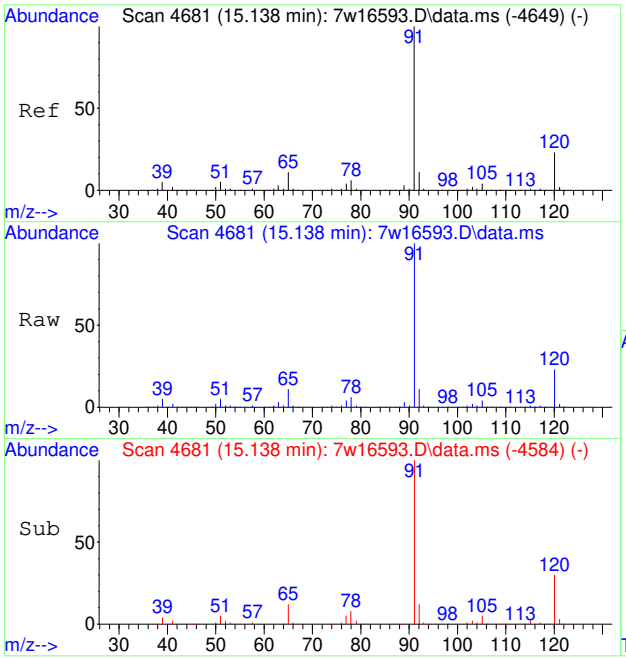


#90
2-CHLOROTOLUENE
Concen: 54.34 PPBV
RT: 14.797 min Scan# 4575
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:126 Resp: 829710

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

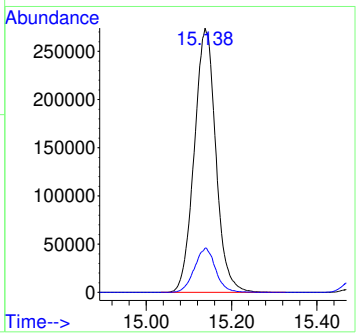


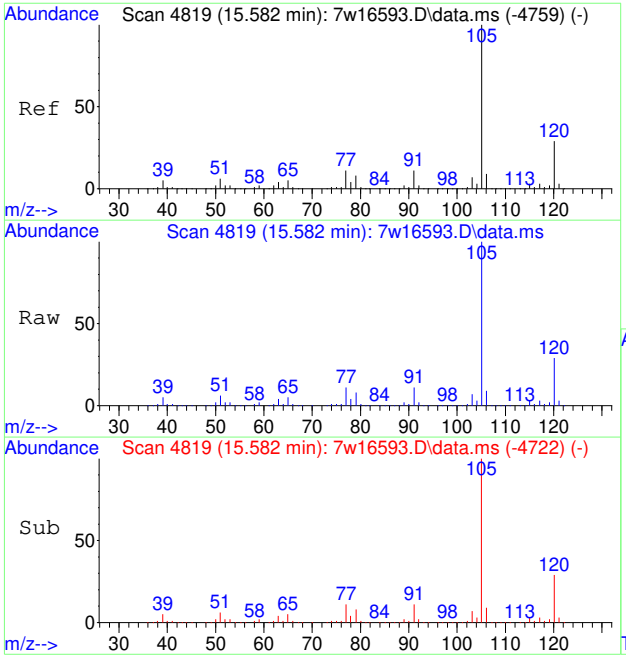


#91
N-PROPYLBENZENE
Concen: 55.42 PPBV
RT: 15.138 min Scan# 4681
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:120 Resp: 961239

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

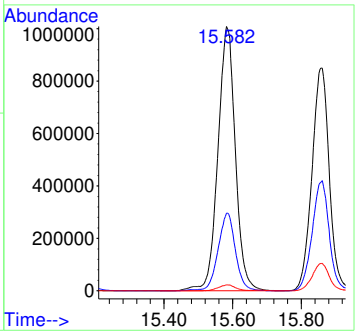


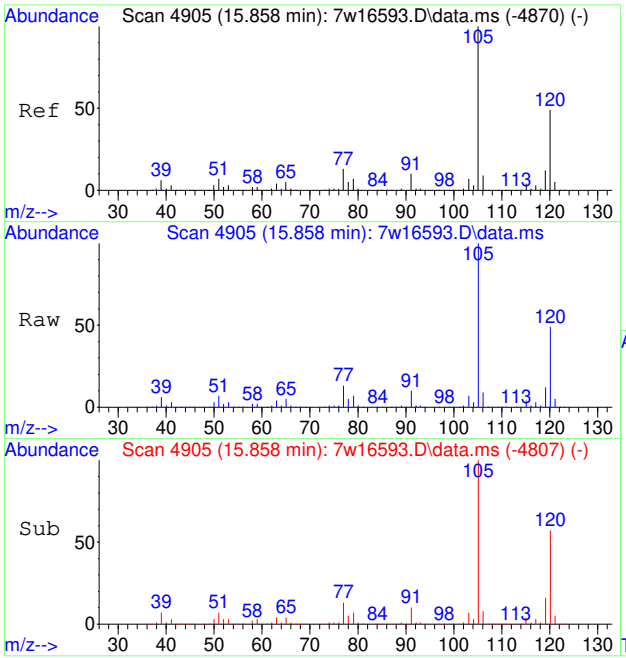


#92
4-ETHYLTOLUENE
Concen: 55.47 PPBV
RT: 15.582 min Scan# 4819
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3566781

Ion	Ratio	Lower	Upper
105	100		
120	29.3	20.7	38.5
119	2.2	1.6	3.0

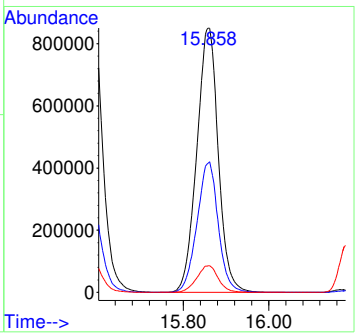


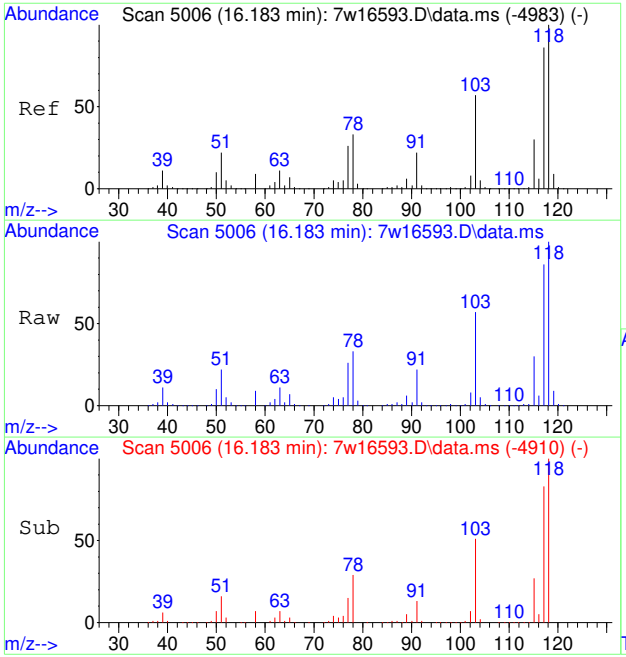


#93
1,3,5-TRIMETHYLBENZENE
Concen: 55.47 PPBV
RT: 15.858 min Scan# 4905
Delta R.T. 0.016 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2975442

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

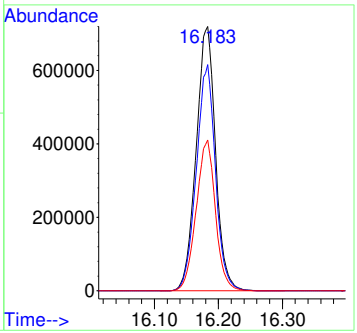


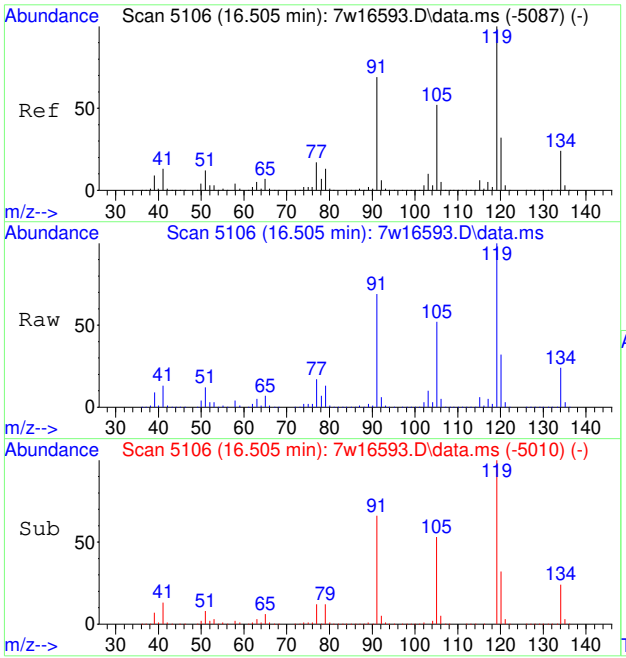


#94
ALPHA-METHYLSTYRENE
Concen: 57.73 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:118 Resp: 1513322

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.8	40.3	74.9

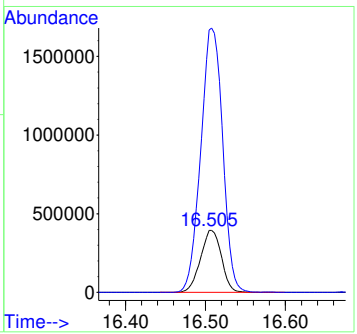


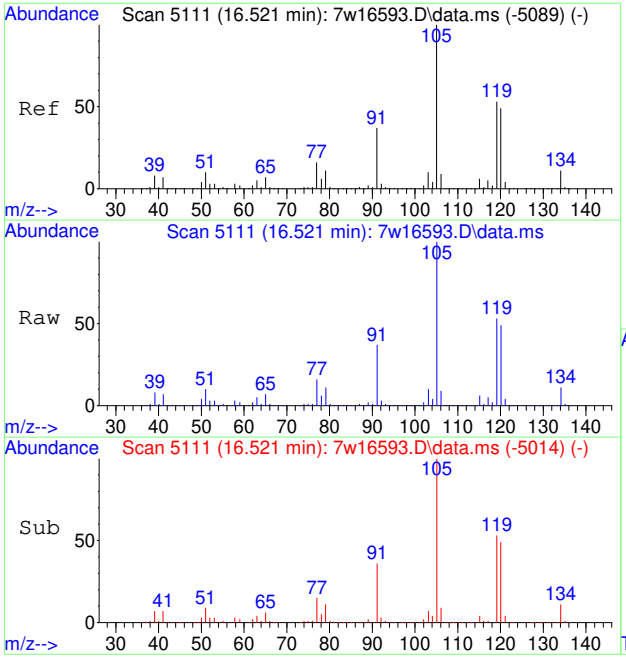


#95
TERT-BUTYLBENZENE
Concen: 54.19 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 714841

Ion	Ratio	Lower	Upper
134	100		
119	446.9	311.3	578.1

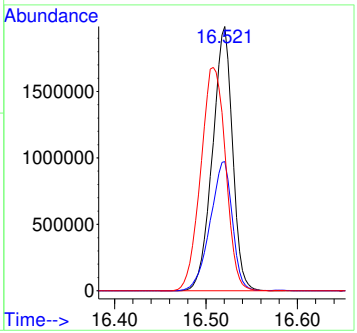


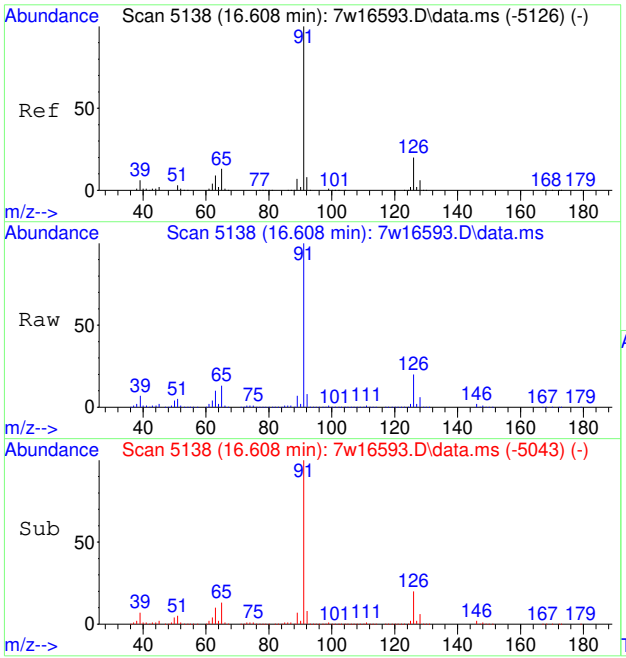


#96
1,2,4-TRIMETHYLBENZENE
Concen: 57.25 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 3037196

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

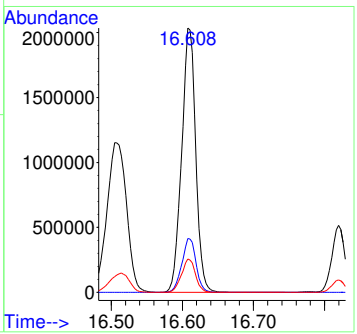


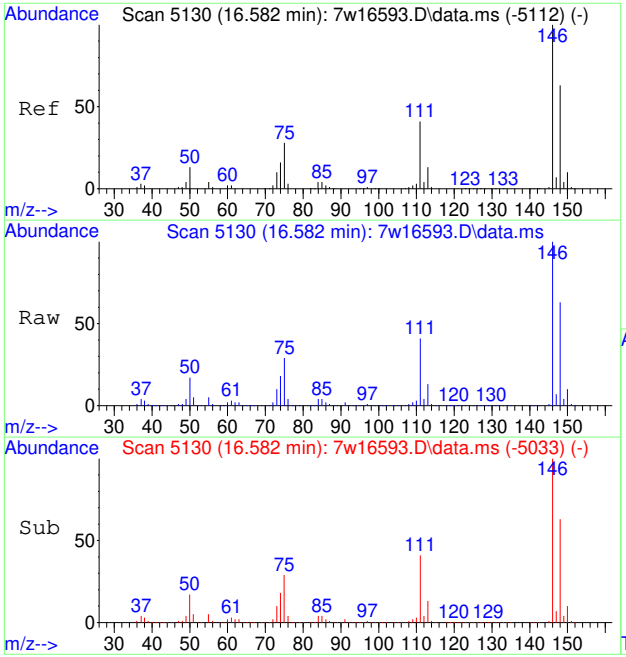


#97
BENZYL CHLORIDE
Concen: 68.69 PPBV
RT: 16.608 min Scan# 5138
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion: 91 Resp: 2795409

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.6	9.2	17.0

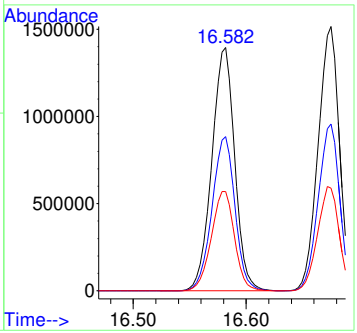


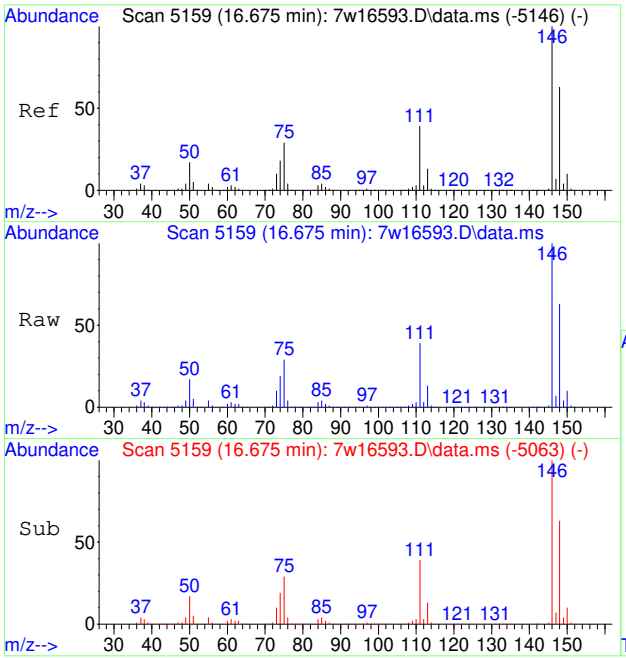


#98
M-DICHLOROBENZENE
Concen: 53.40 PPBV
RT: 16.582 min Scan# 5130
Delta R.T. 0.013 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1958237

Ion	Ratio	Lower	Upper
146	100		
148	63.6	44.6	82.8
111	41.4	29.3	54.3

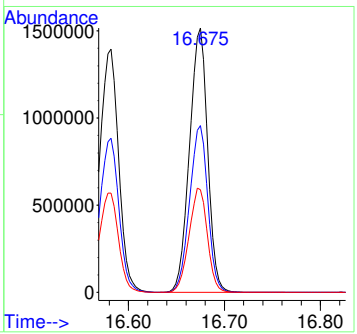


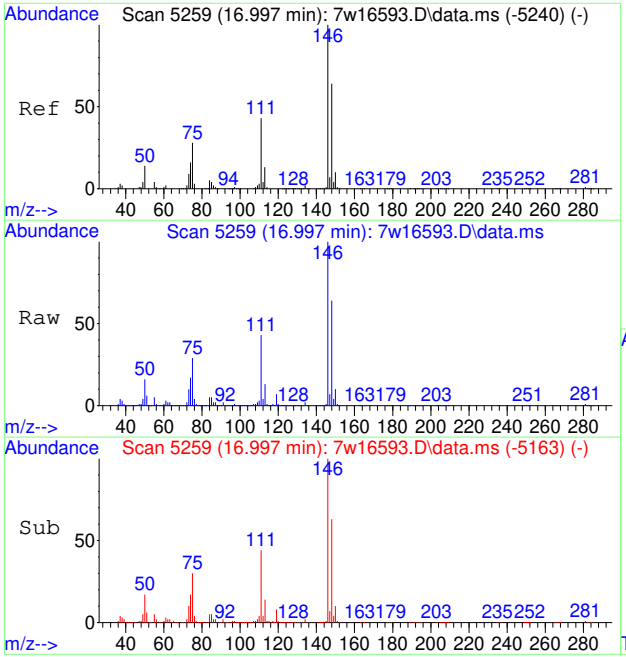


#99
P-DICHLOROBENZENE
Concen: 55.15 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1991134

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.2	82.2
111	39.9	28.0	52.0

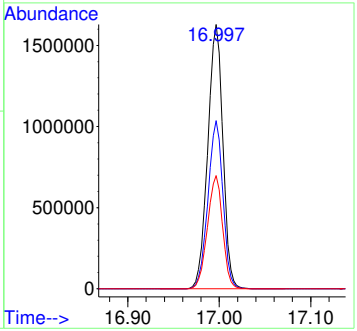


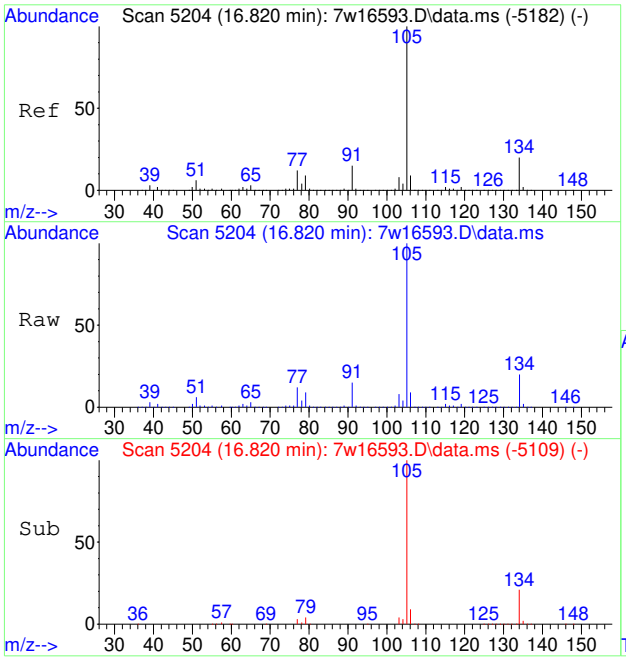


#100
O-DICHLOROBENZENE
Concen: 55.08 PPBV
RT: 16.997 min Scan# 5259
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:146 Resp: 1868131

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

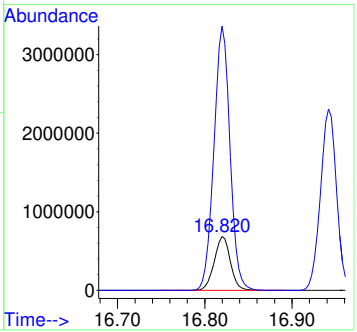


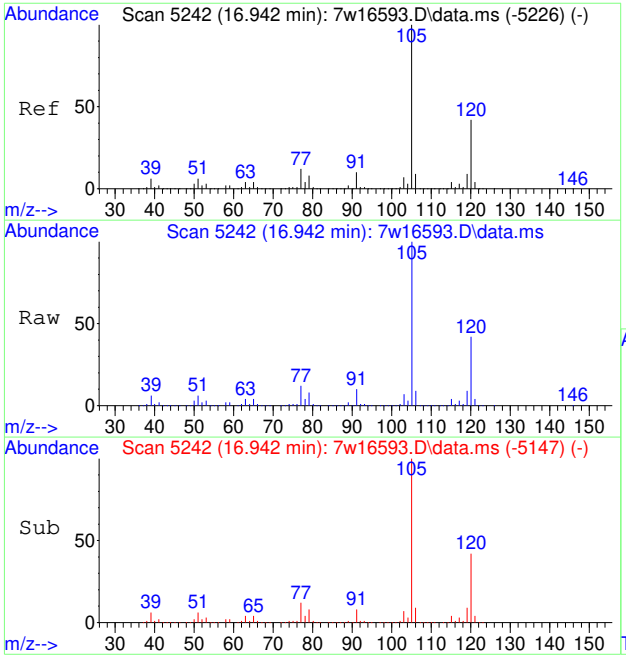


#101
SEC-BUTYLBENZENE
Concen: 56.32 PPBV
RT: 16.820 min Scan# 5204
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 879244

Ion	Ratio	Lower	Upper
134	100		
105	490.4	344.8	640.3

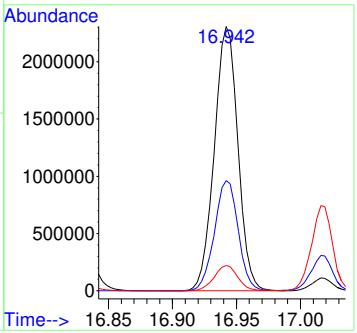


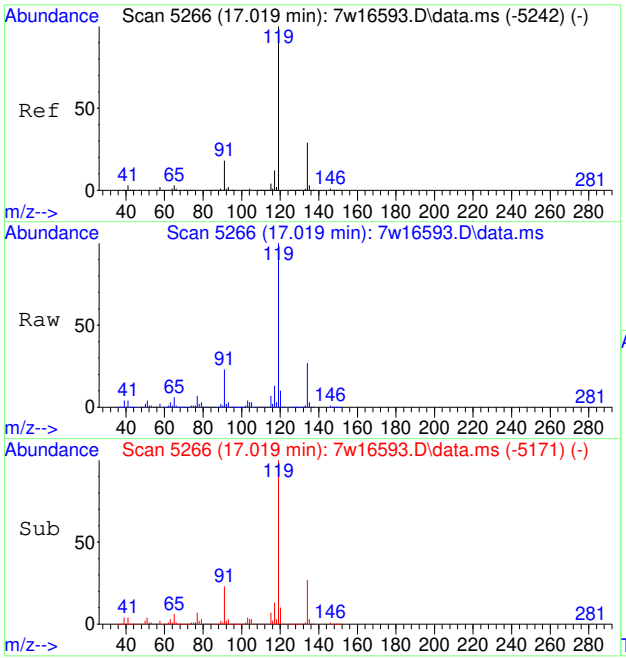


#102
1,2,3-TRIMETHYLBENZENE
Concen: 55.49 PPBV
RT: 16.942 min Scan# 5242
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:105 Resp: 2956799

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	9.7	7.0	13.0

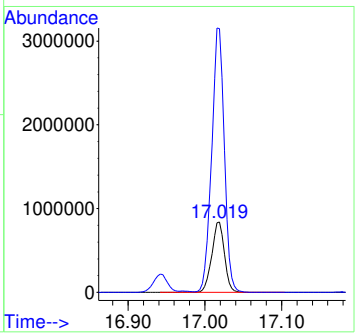


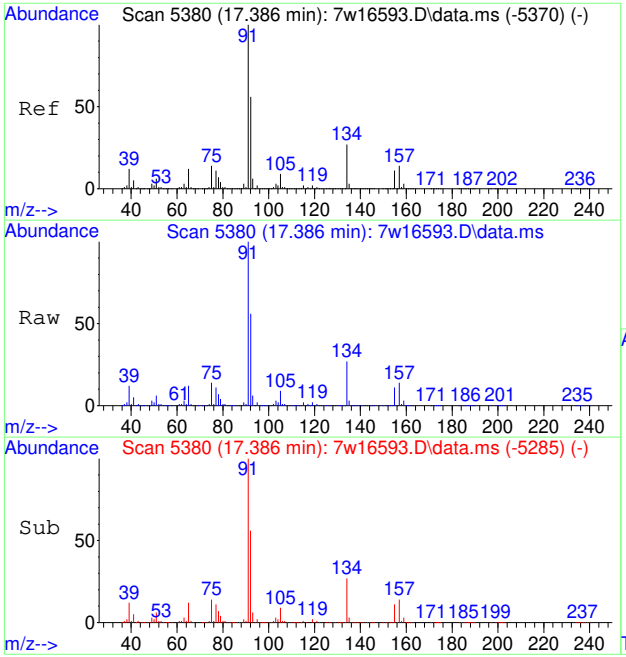


#103
P-ISOPROPYLTOLUENE
Concen: 55.64 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.007 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 964439

Ion	Ratio	Lower	Upper
134	100		
119	374.7	261.4	485.4

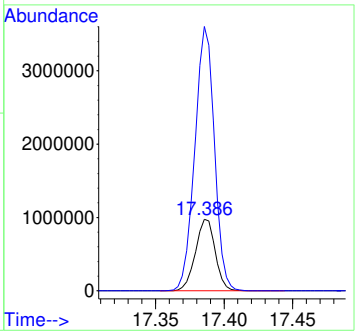


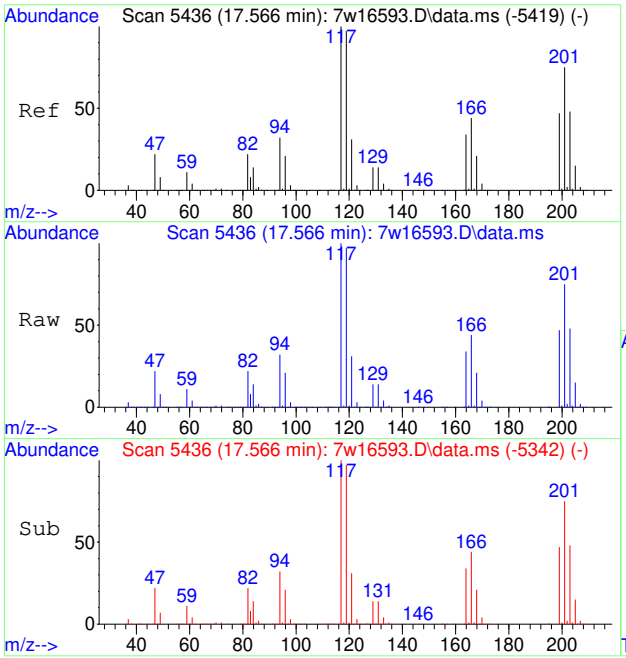


#104
N-BUTYLBENZENE
Concen: 59.74 PPBV
RT: 17.386 min Scan# 5380
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:134 Resp: 974353

Ion	Ratio	Lower	Upper
134	100		
91	366.6	261.0	484.8

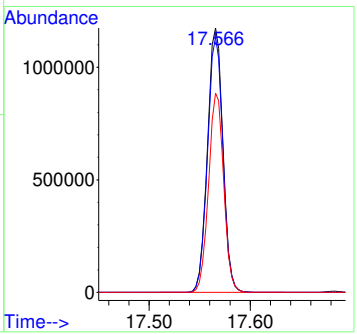


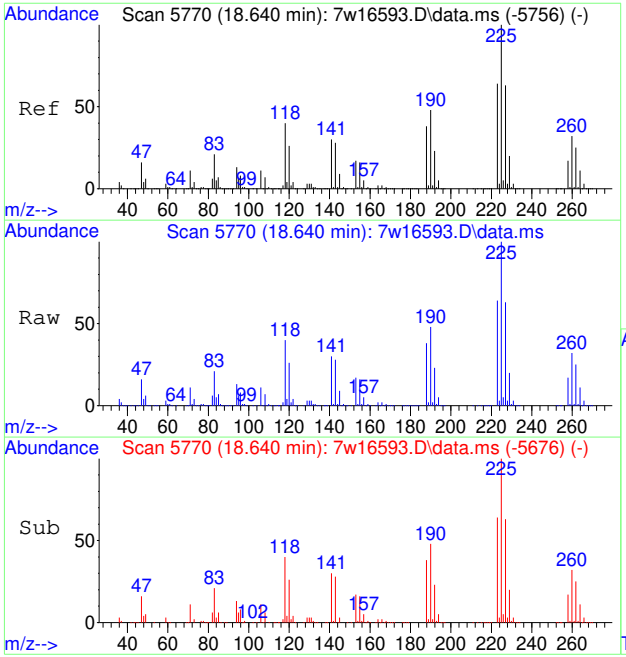


#105
HEXACHLOROETHANE
Concen: 62.73 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:117 Resp: 1246101

Ion	Ratio	Lower	Upper
117	100		
119	95.9	67.7	125.7
201	73.7	49.8	92.6

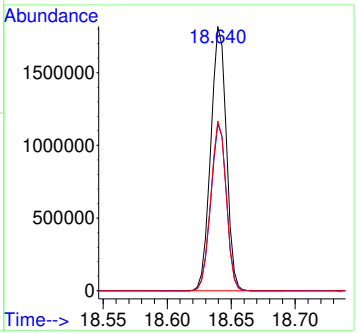


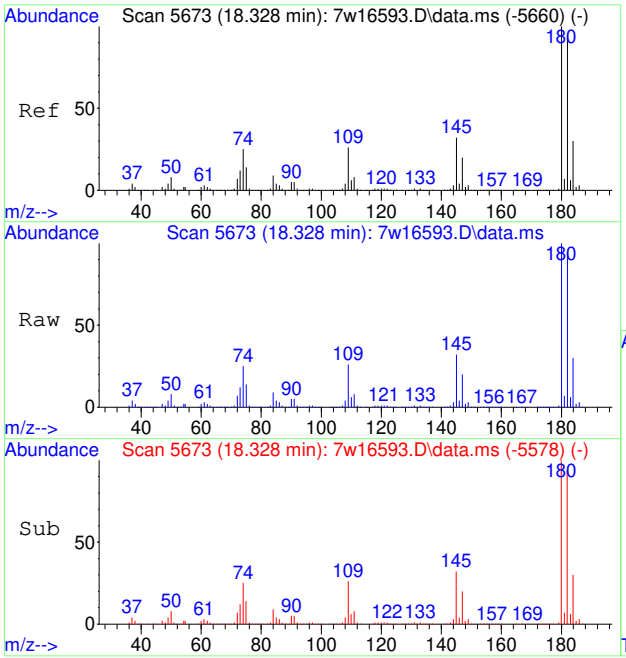


#106
HEXACHLOROBUTADIENE
Concen: 64.95 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.003 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:225 Resp: 1541106

Ion	Ratio	Lower	Upper
225	100		
227	63.0	44.6	82.8
223	63.6	44.6	82.8

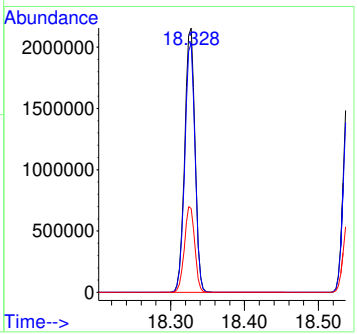


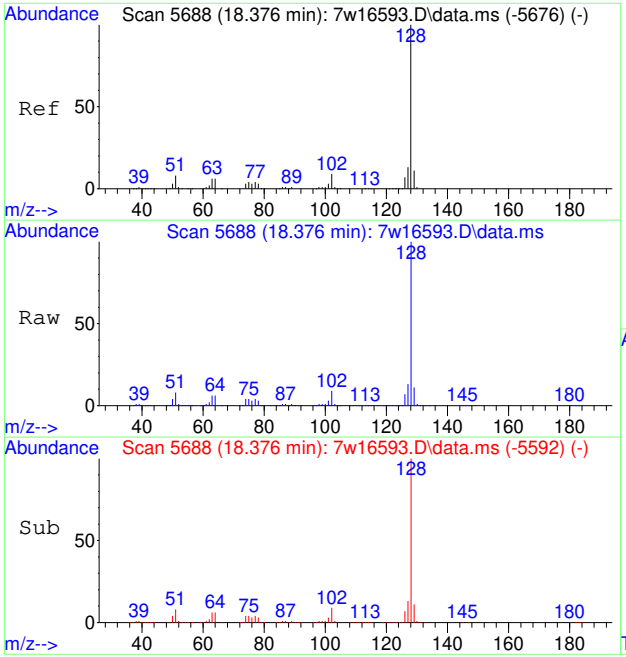


#107
1,2,4-TRICHLOROBENZENE
Concen: 76.81 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.006 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:180 Resp: 2093092

Ion	Ratio	Lower	Upper
180	100		
182	94.1	66.6	123.6
145	32.6	22.5	41.9

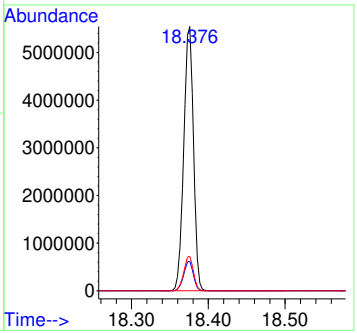


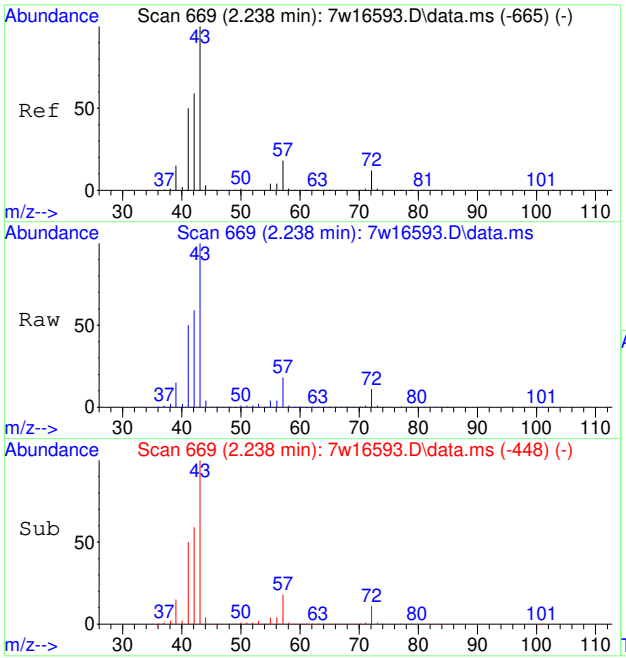


#108
NAPHTHALENE
Concen: 81.19 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:128 Resp: 4901356

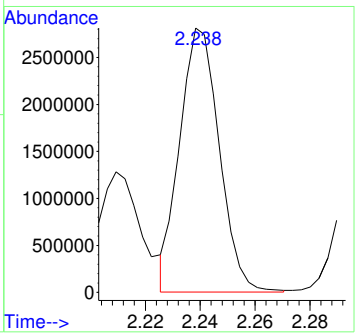
Ion	Ratio	Lower	Upper
128	100		
129	11.1	7.5	13.9
127	12.9	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 45.25 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16593.D
Acq: 7 Aug 2025 3:15 pm

Tgt Ion:TIC Resp: 2811423



Manual Integration Approval Summary

Sample Number: V7W577-IC577
Lab FileID: 7W16593.D
Injection Time: 08/07/25 15:15

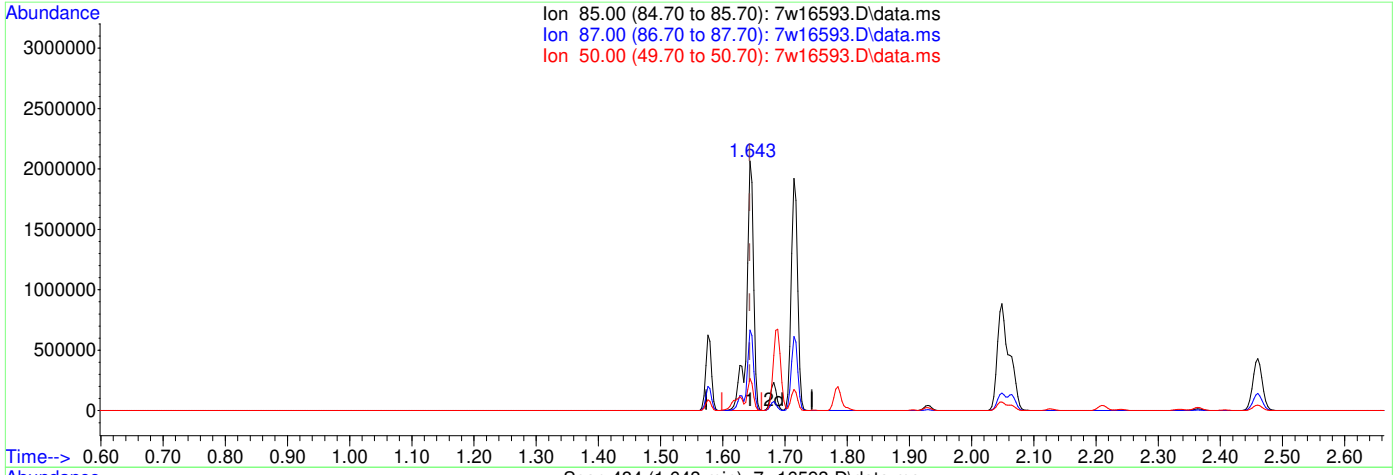
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

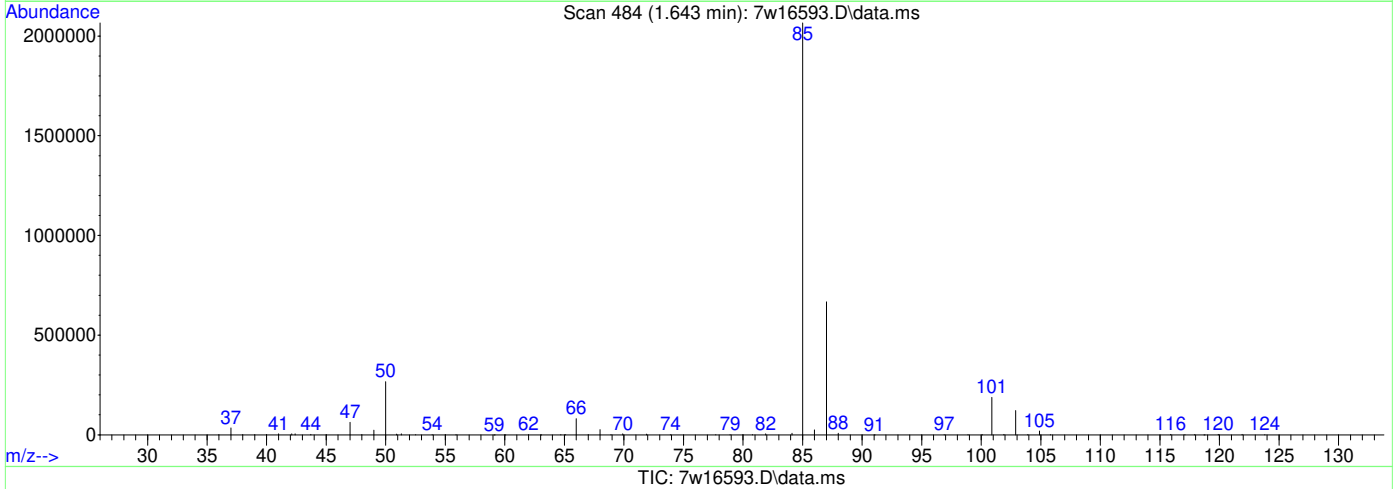
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 53.32PPBV

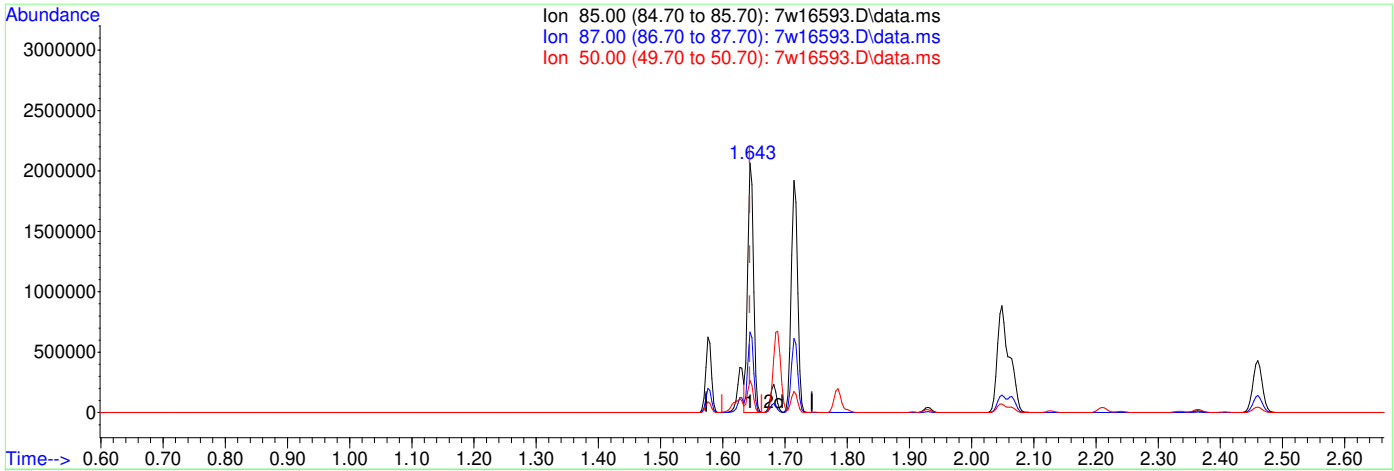
response 1605785

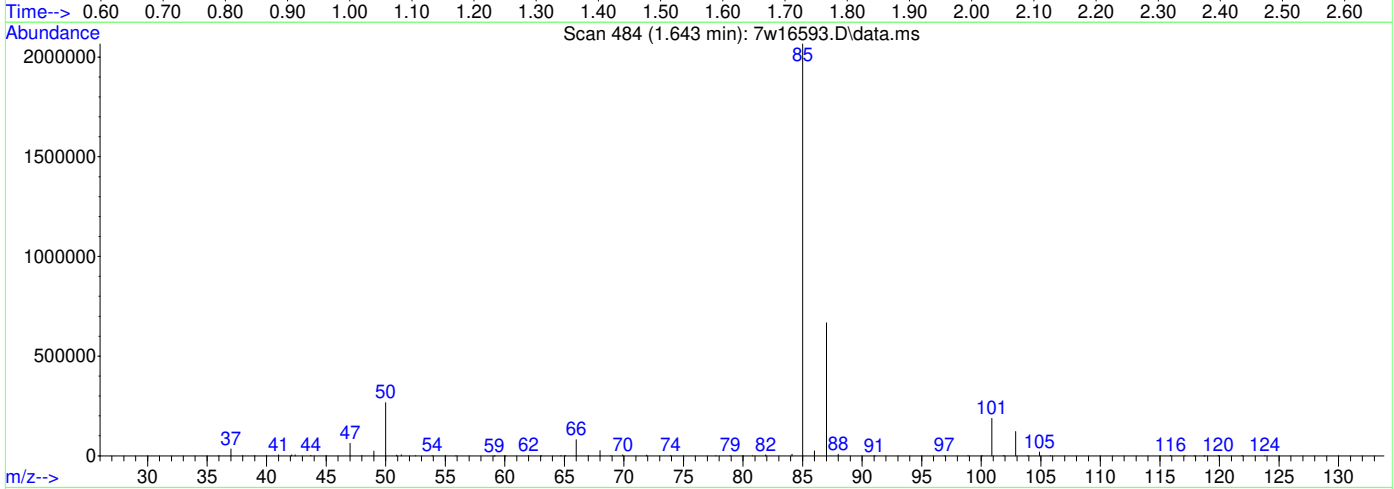
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.49
50.00	19.30	18.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16593.D
Acq On : 7 Aug 2025 3:15 pm
Operator : benk
Sample : ic577-50
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:47:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 14:58:20 2025
Response via : Initial Calibration





TIC: 7w16593.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 44.53PPBV m

response 1341049

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.90
50.00	19.30	22.31
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	106909	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	531012	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.971	117	486982	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	106911	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.321	95	402638	10.30	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.605	65	416591	62.18	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	181942	62.53	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.631	116	917974	65.92	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.643	85	1586079m	52.05	PPBV		
7) PROPYLENE	1.627	41	519681	59.64	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	1374618	59.89	PPBV		99
9) FREON 114	1.714	85	1619416	61.25	PPBV		99
10) CHLOROMETHANE	1.688	52	212421	57.28	PPBV		98
11) VINYL CHLORIDE	1.746	62	763152	58.43	PPBV		99
12) 1,3-BUTADIENE	1.785	54	588014	56.79	PPBV		97
13) N-BUTANE	1.801	43	1009195	57.39	PPBV		99
14) BROMOMETHANE	1.859	94	580953	57.25	PPBV		99
15) CHLOROETHANE	1.904	64	396609	55.81	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	1380281	56.11	PPBV		99
17) ACETONITRILE	1.994	41	581922	47.00	PPBV		99
18) ACROLEIN	2.032	56	334897	57.43	PPBV		100
19) FREON 123	2.049	83	1521669	61.54	PPBV		100
20) FREON 123A	2.065	117	890775	60.73	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.129	101	1563139	55.76	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	1360413	57.05	PPBV		99
23) ACETONE	2.071	58	370968	56.95	PPBV		93
24) PENTANE	2.238	42	709359	54.82	PPBV		99
25) IODOMETHANE	2.299	142	1579517	61.48	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	645693	60.57	PPBV		94
27) CARBON DISULFIDE	2.463	76	1800975	59.49	PPBV		96
28) ETHANOL	1.933	45	326453	51.26	PPBV		99
29) BROMOETHENE	2.004	106	595538	58.65	PPBV		100
30) ACRYLONITRILE	2.209	52	549118	60.13	PPBV		100
31) METHYLENE CHLORIDE	2.364	84	575223	54.71	PPBV		93
32) 3-CHLOROPROPENE	2.405	76	332976	58.47	PPBV		92
33) FREON 113	2.460	151	974461	60.76	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	2.688	96	674414	57.48	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.338	59	1507671	50.59	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	2004125	60.14	PPBV		99
37) TETRAHYDROFURAN	3.467	72	315623	58.71	PPBV		97
38) HEXANE	3.241	57	1329253	59.12	PPBV		95
39) VINYL ACETATE	2.830	86	203564	64.15	PPBV		90
40) 1,1-DICHLOROETHANE	2.762	63	1312399	57.90	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	360548	58.79	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.116	96	737182	60.78	PPBV		98
43) DIISOPROPYL ETHER	3.248	59	381162	59.86	PPBV		90
44) ETHYL ACETATE	3.251	61	270078	63.06	PPBV		85
45) METHYL ACRYLATE	3.238	55	1639035	60.36	PPBV	#	100
46) CHLOROFORM	3.267	83	1396609	59.52	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	1562455	62.29	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	1503844	61.02	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	1592865	62.67	PPBV		100
50) 1,2-DICHLOROETHANE	3.666	62	1086518	59.76	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	BENZENE	4.132	78	2141182	59.55	PPBV		99
53)	CYCLOHEXANE	4.335	84	968144	62.31	PPBV		100
54)	2,3-DIMETHYLPENTANE	4.589	71	501690	64.89	PPBV		100
55)	TRICHLOROETHENE	5.023	95	961087	57.89	PPBV		99
56)	1,2-DICHLOROPROPANE	4.788	63	899764	61.43	PPBV		99
57)	DIBROMOMETHANE	4.749	174	843168	59.53	PPBV		98
58)	ETHYL ACRYLATE	4.907	55	2081872	63.61	PPBV		100
59)	BROMODICHLOROMETHANE	4.968	83	1618277	60.60	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.113	57	4127531	57.19	PPBV		100
61)	1,4-DIOXANE	5.026	88	483214m	61.98	PPBV		
62)	HEPTANE	5.425	43	1404941	59.03	PPBV		98
63)	METHYL METHACRYLATE	5.322	69	825175	62.06	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.048	58	823387	57.66	PPBV	#	1
65)	CIS-1,3-DICHLOROPROPENE	5.946	75	1444587	64.81	PPBV		97
66)	TOLUENE	7.138	91	2694962	63.95	PPBV		100
67)	1,3-DICHLOROPROPANE	7.199	76	1360921	64.47	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.618	75	1302469	65.06	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.772	83	774964	64.67	PPBV	#	31
70)	2-HEXANONE	7.704	58	1106138	55.20	PPBV		97
71)	ETHYL METHACRYLATE	7.843	69	1420765	64.21	PPBV		97
72)	TETRACHLOROETHENE	8.855	164	995678	64.80	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.669	129	1671777	69.22	PPBV		100
74)	1,2-DIBROMOETHANE	8.016	107	1452027	66.89	PPBV		100
75)	OCTANE	9.006	43	1982903	62.35	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.071	131	1205798	69.43	PPBV		100
78)	CHLOROBENZENE	10.058	112	2204542	66.36	PPBV		98
79)	ETHYLBENZENE	10.936	91	3650660	67.08	PPBV		100
80)	M,P-XYLENE	11.370	91	5556486	125.67	PPBV		60
81)	O-XYLENE	12.293	91	2839567	66.28	PPBV		98
82)	STYRENE	12.084	104	2245416	70.41	PPBV		99
83)	NONANE	13.421	43	2110946	63.10	PPBV		98
84)	BROMOFORM	11.174	173	1514711	75.01	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	12.315	83	2064226	67.37	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.595	75	1624746	67.69	PPBV		100
88)	ISOPROPYLBENZENE	13.807	120	1073063	65.98	PPBV		97
89)	BROMOBENZENE	13.672	77	2035109	65.06	PPBV		99
90)	2-CHLOROTOLUENE	14.800	126	993540	65.73	PPBV		100
91)	N-PROPYLBENZENE	15.141	120	1146895	66.71	PPBV		100
92)	4-ETHYLTOLUENE	15.585	105	4258764	66.89	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.865	105	3539586	66.72	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.183	118	1802748	68.96	PPBV		99
95)	TERT-BUTYLBENZENE	16.508	134	849405	65.41	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.521	105	3598939	68.48	PPBV		99
97)	BENZYL CHLORIDE	16.611	91	3366305	81.19	PPBV		99
98)	M-DICHLOROBENZENE	16.585	146	2335430	64.53	PPBV		99
99)	P-DICHLOROBENZENE	16.675	146	2373563	66.58	PPBV		100
100)	O-DICHLOROBENZENE	17.000	146	2236033	66.71	PPBV		100
101)	SEC-BUTYLBENZENE	16.823	134	1046061	67.84	PPBV		98
102)	1,2,3-TRIMETHYLBENZENE	16.945	105	3529094	66.96	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.019	134	1145439	66.86	PPBV		100
104)	N-BUTYLBENZENE	17.389	134	1159070	71.38	PPBV		97
105)	HEXACHLOROETHANE	17.566	117	1491790	74.98	PPBV		98
106)	HEXACHLOROBUTADIENE	18.640	225	1851997	78.27	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2599589	93.58	PPBV		99
108)	NAPHTHALENE	18.376	128	6111699	98.65	PPBV		98
110)	TVHC as equiv Pentane	2.238	TIC	3312203	53.84	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

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

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

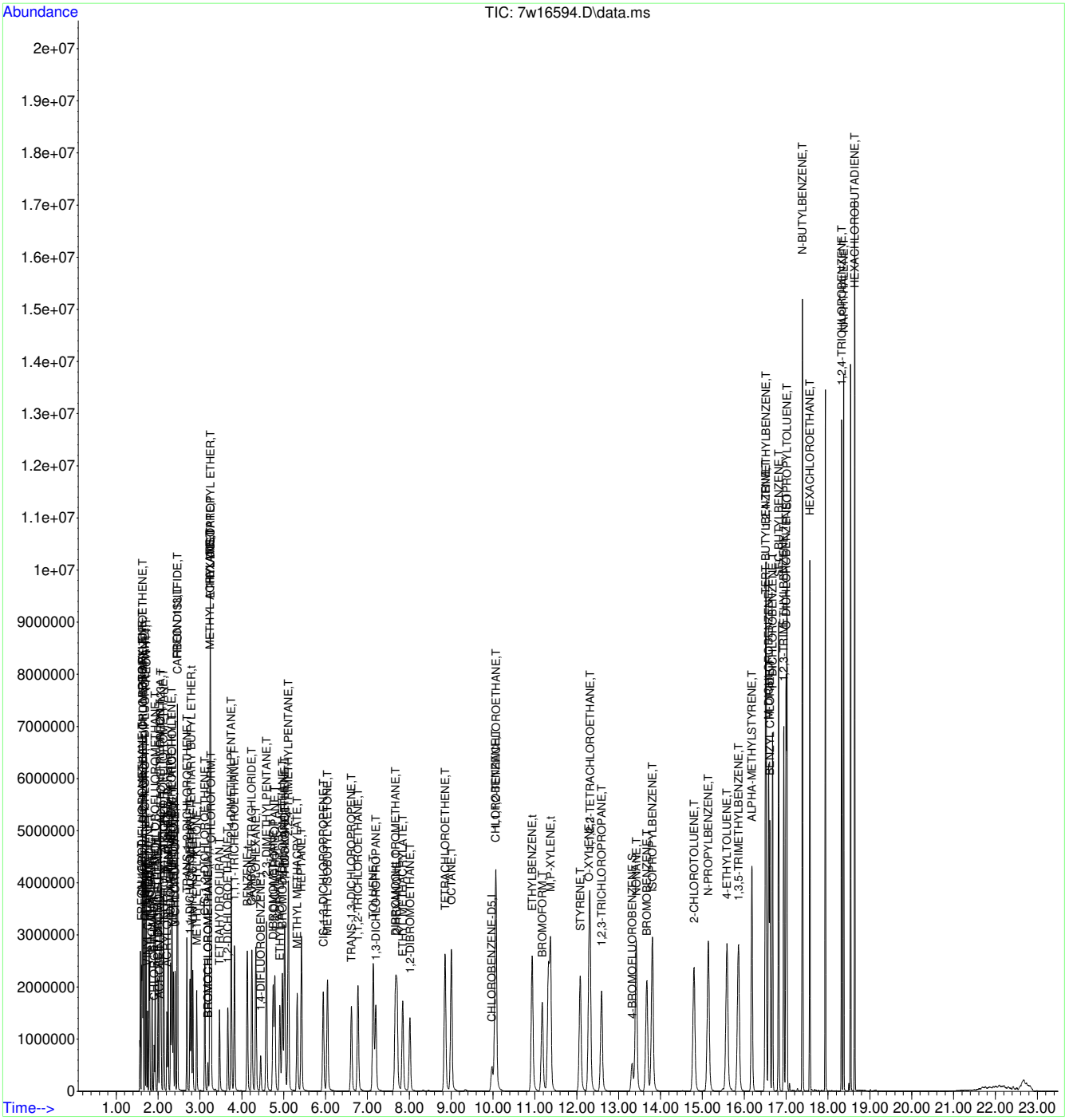
7.7.22

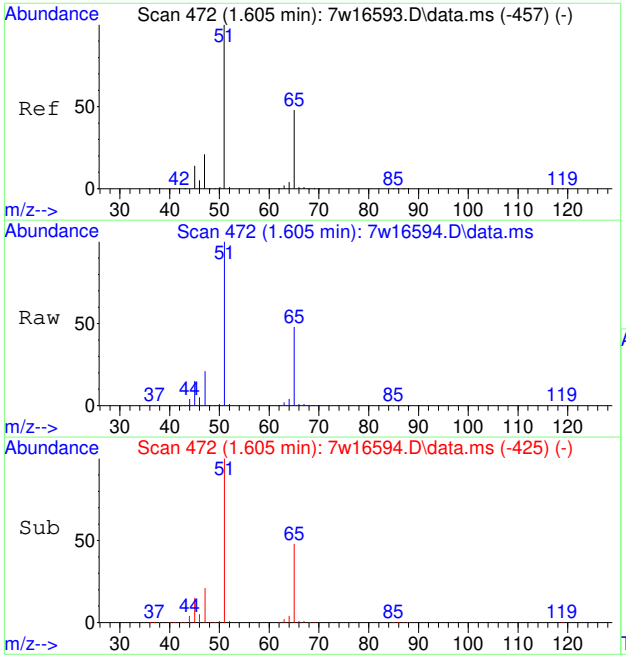
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 16:05:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration

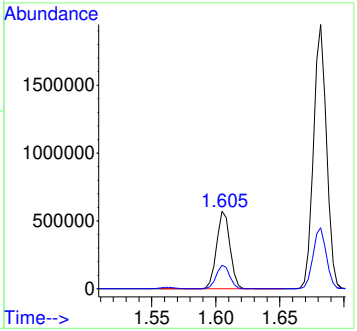


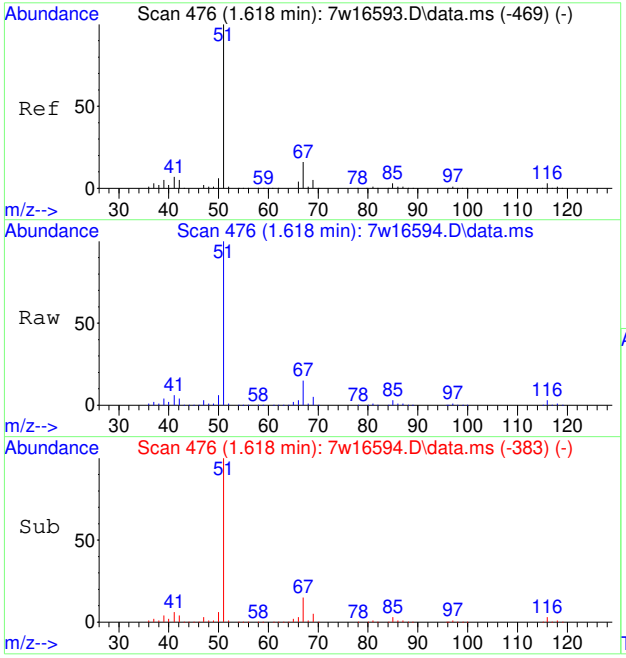


#3
FREON 152A
Concen: 62.18 PPBV
RT: 1.605 min Scan# 472
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 416591

Ion	Ratio	Lower	Upper
65	100		
45	30.5	23.0	42.8

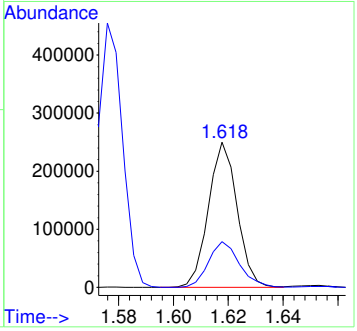


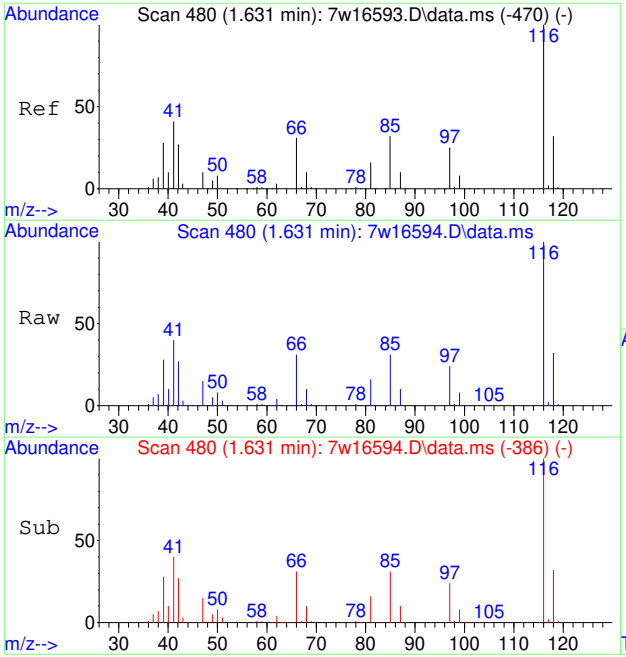


#4
CHLORODIFLUOROMETHANE
Concen: 62.53 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 181942

Ion	Ratio	Lower	Upper
67	100		
69	34.8	25.3	47.1

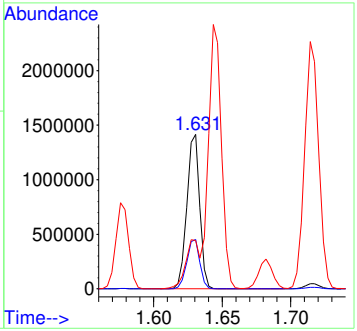


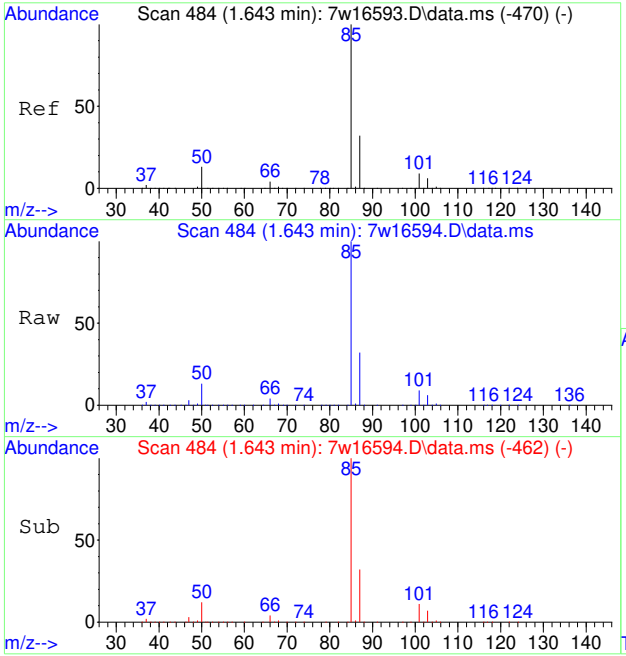


#5
CHLOROTRIFLUOROETHENE
Concen: 65.92 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:116 Resp: 917974

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	207.3	152.4	283.0

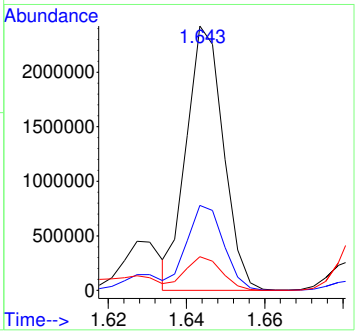


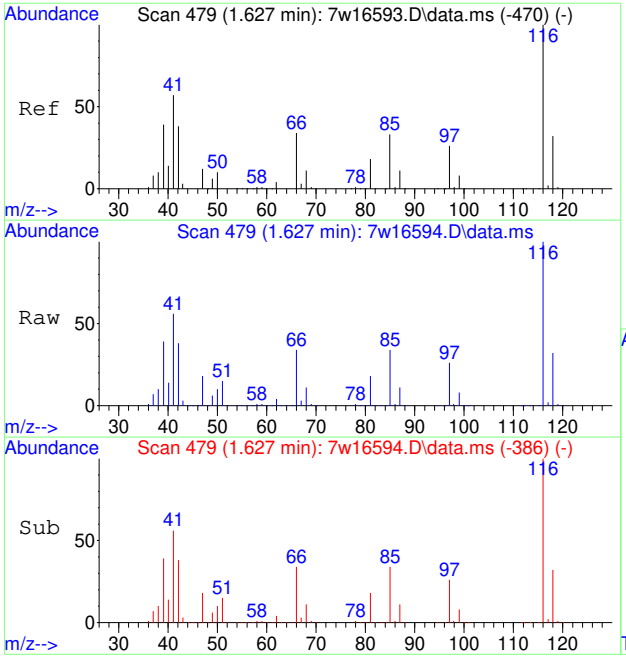


#6
DICHLORODIFLUOROMETHANE
Concen: 52.05 PPBV m
RT: 1.643 min Scan# 484
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1586079

Ion	Ratio	Lower	Upper
85	100		
87	38.8	23.0	42.6
50	22.3	13.5	25.1

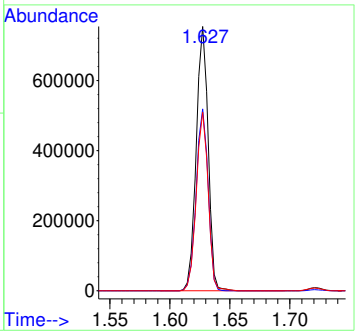


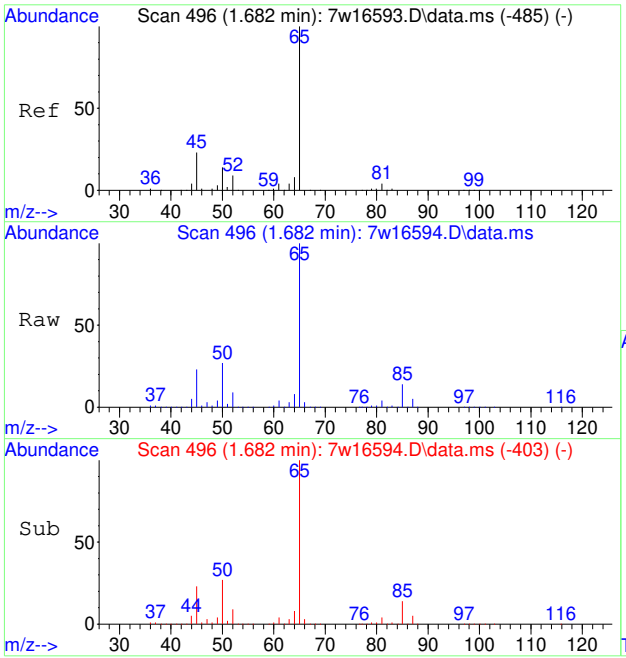


#7
PROPYLENE
Concen: 59.64 PPBV
RT: 1.627 min Scan# 479
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 519681

Ion	Ratio	Lower	Upper
41	100		
39	69.0	50.5	93.7
42	67.4	47.0	87.4

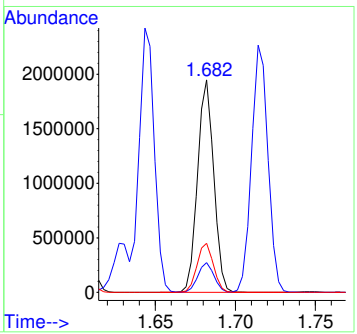


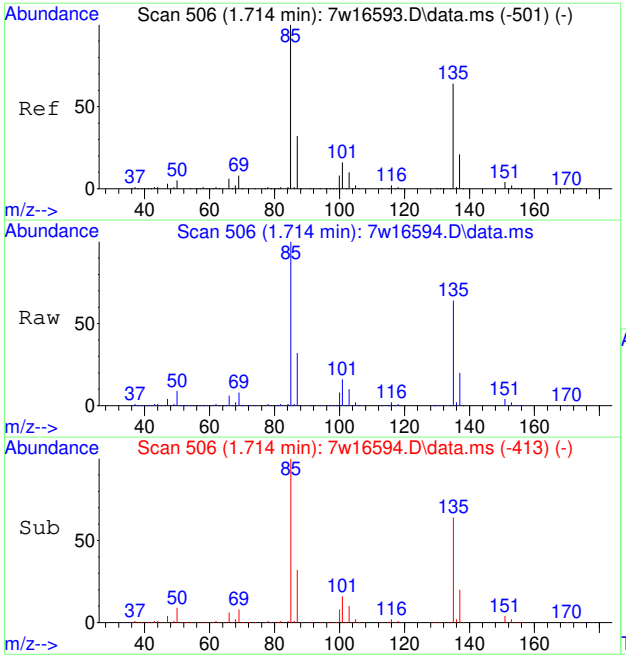


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 59.89 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 65 Resp: 1374618

Ion	Ratio	Lower	Upper
65	100		
85	13.9	9.4	17.4
45	23.4	16.9	31.3

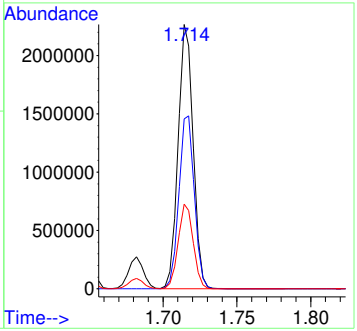


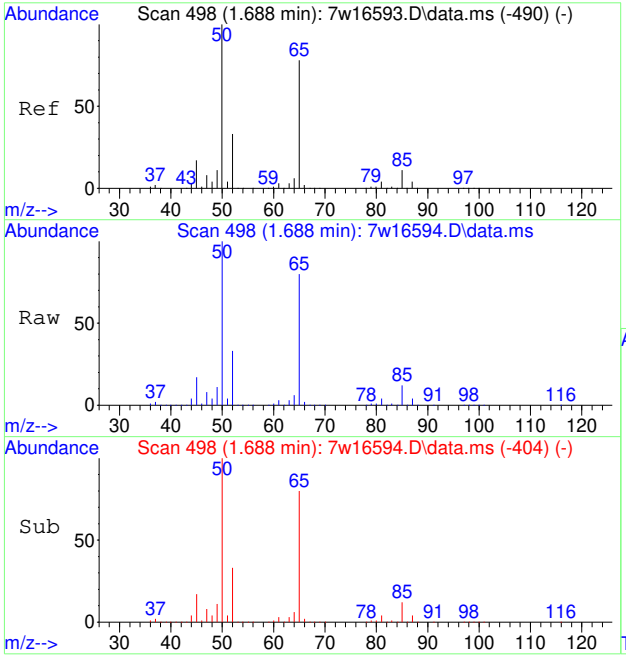


#9
FREON 114
Concen: 61.25 PPBV
RT: 1.714 min Scan# 506
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 85 Resp: 1619416

Ion	Ratio	Lower	Upper
85	100		
135	67.3	46.1	85.7
87	32.1	22.6	42.0

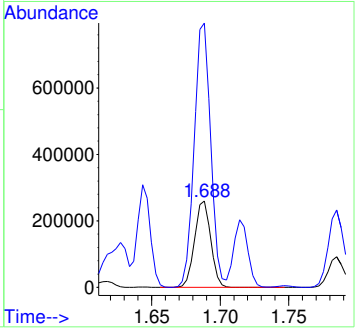


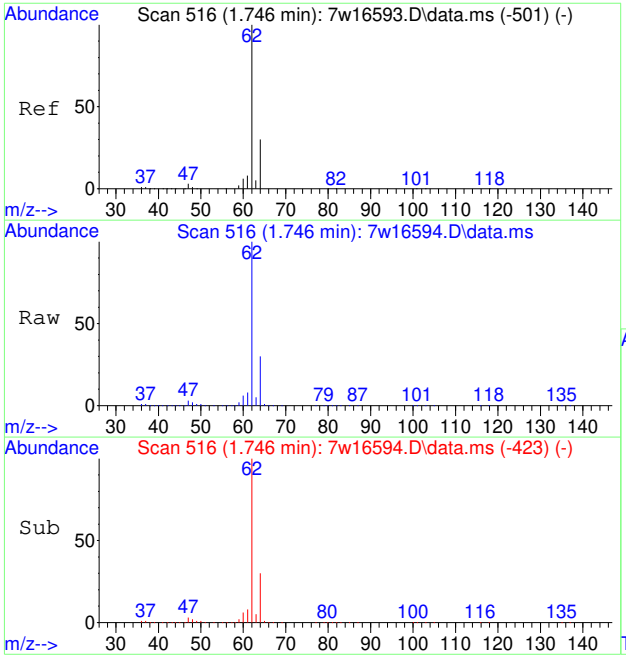


#10
CHLOROMETHANE
Concen: 57.28 PPBV
RT: 1.688 min Scan# 498
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 212421

Ion	Ratio	Lower	Upper
52	100		
50	318.6	225.6	419.0

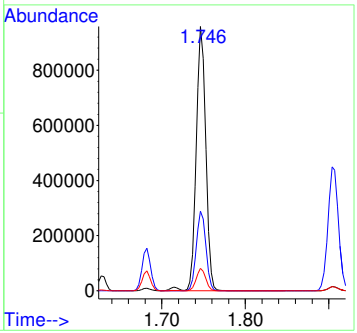


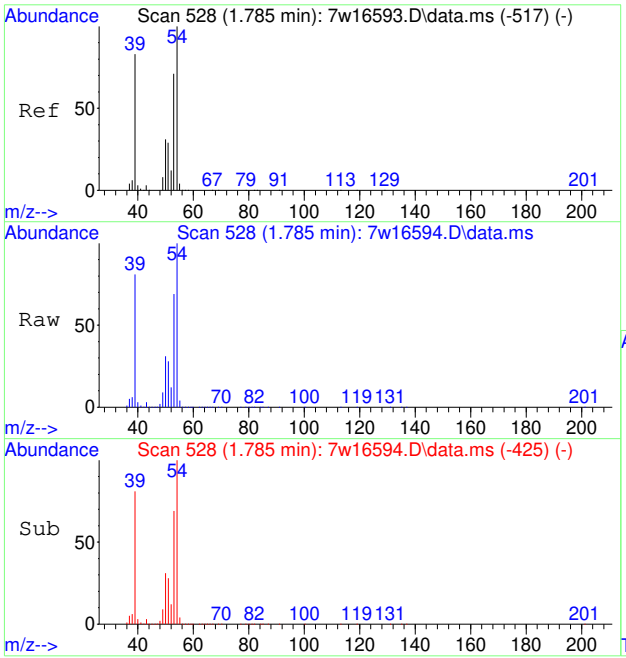


#11
VINYL CHLORIDE
Concen: 58.43 PPBV
RT: 1.746 min Scan# 516
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 763152

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.5	5.7	10.5

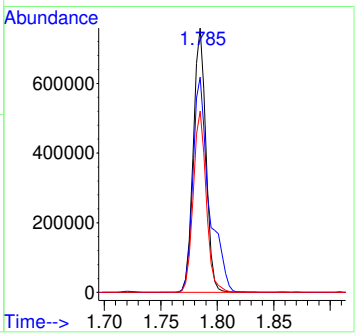


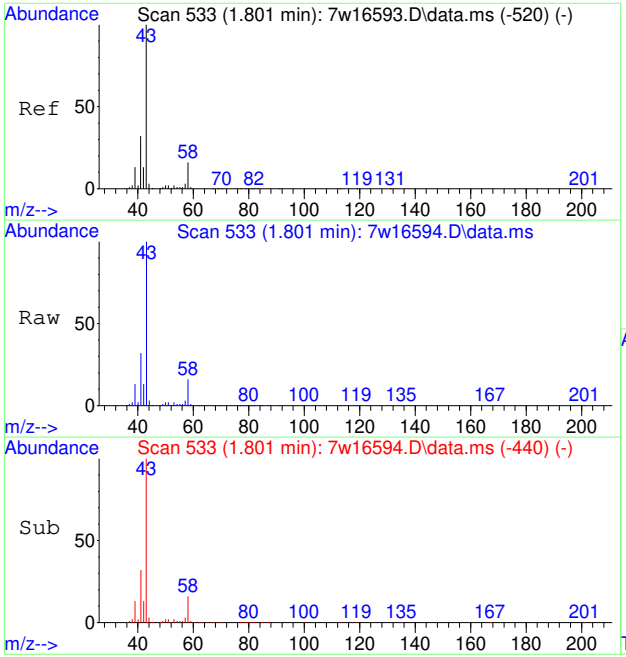


#12
1,3-BUTADIENE
Concen: 56.79 PPBV
RT: 1.785 min Scan# 528
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 54 Resp: 588014

Ion	Ratio	Lower	Upper
54	100		
39	103.8	78.4	138.4
53	70.6	40.9	100.9

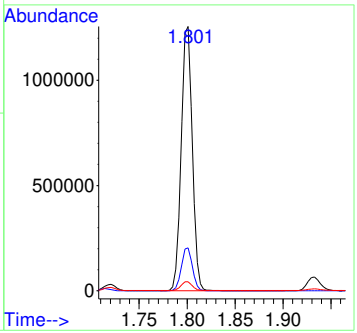


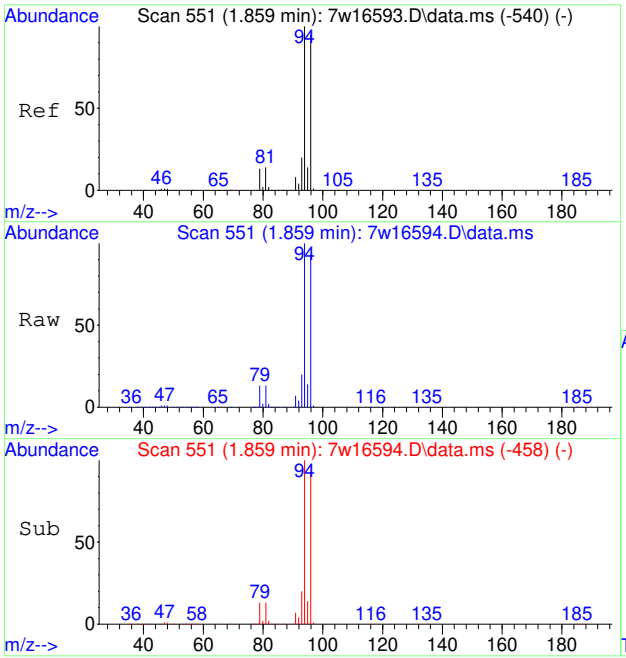


#13
N-BUTANE
Concen: 57.39 PPBV
RT: 1.801 min Scan# 533
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1009195

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.0	20.4
44	3.5	2.6	4.8

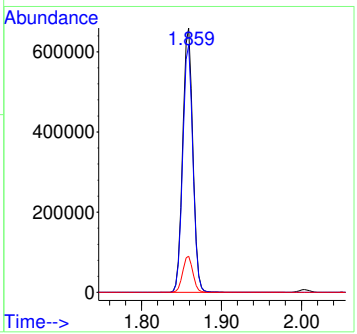


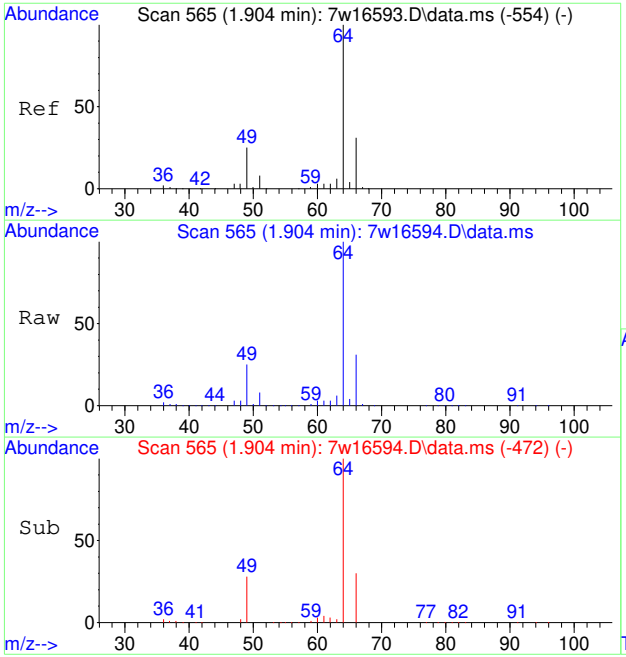


#14
BROMOMETHANE
Concen: 57.25 PPBV
RT: 1.859 min Scan# 551
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 94 Resp: 580953

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.8	9.9	18.3

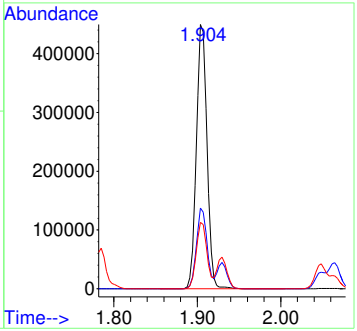


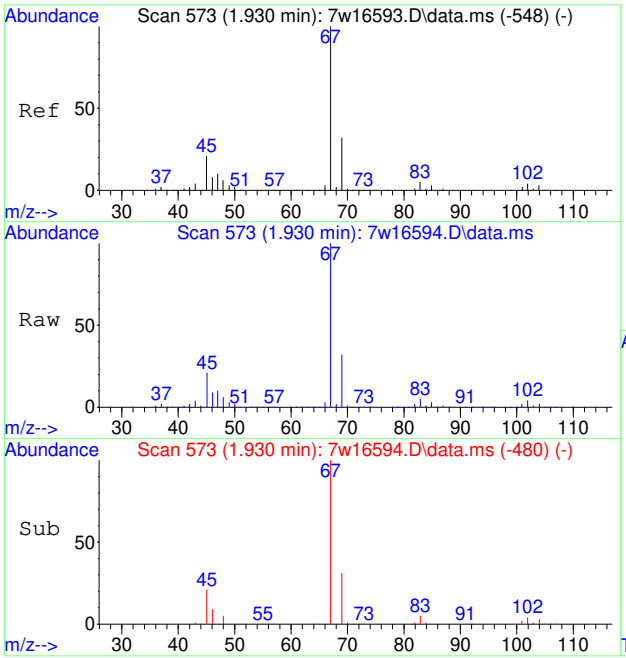


#15
CHLOROETHANE
Concen: 55.81 PPBV
RT: 1.904 min Scan# 565
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 64 Resp: 396609

Ion	Ratio	Lower	Upper
64	100		
66	40.0	21.5	39.9#
49	26.0	19.0	35.4

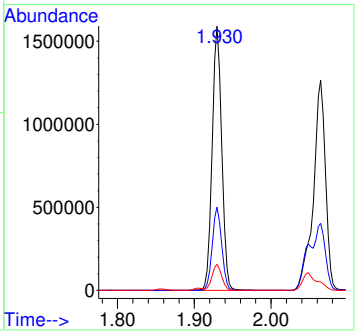


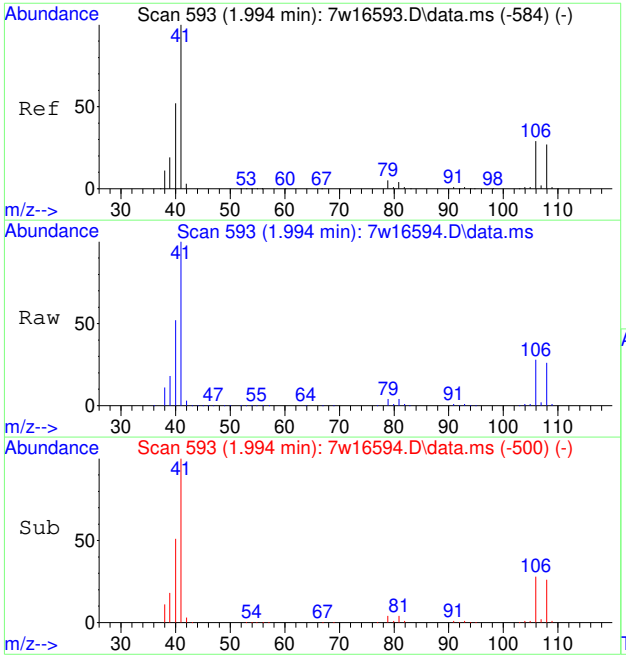


#16
DICHLOROFLUOROMETHANE
Concen: 56.11 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 67 Resp: 1380281

Ion	Ratio	Lower	Upper
67	100		
69	31.3	21.8	40.6
47	10.9	8.0	14.8

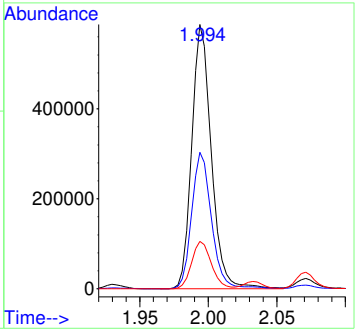


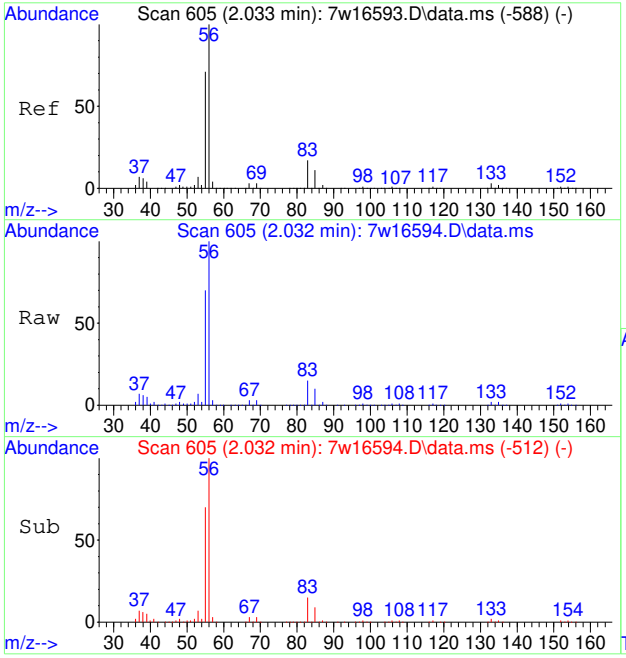


#17
ACETONITRILE
Concen: 47.00 PPBV
RT: 1.994 min Scan# 593
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 41 Resp: 581922

Ion	Ratio	Lower	Upper
41	100		
40	52.3	36.7	68.1
39	18.0	13.1	24.3

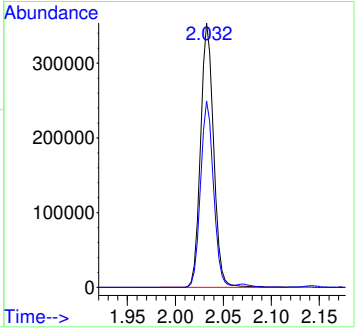


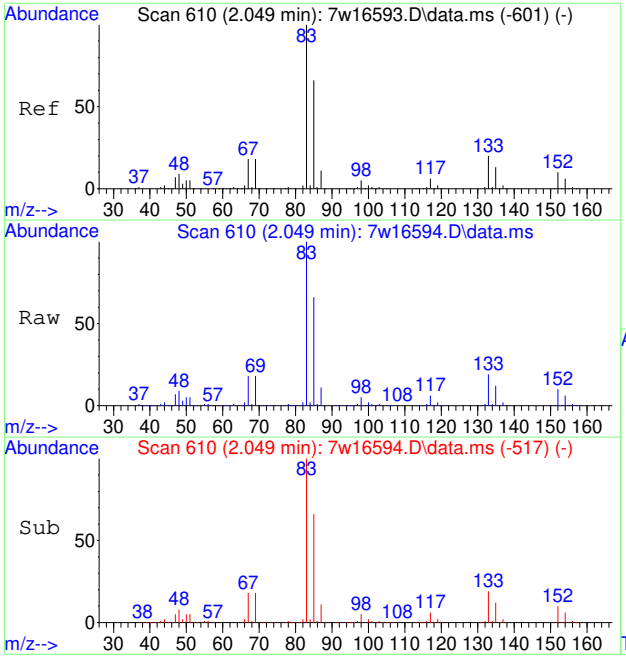


#18
ACROLEIN
Concen: 57.43 PPBV
RT: 2.032 min Scan# 605
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 56 Resp: 334897

Ion	Ratio	Lower	Upper
56	100		
55	69.9	48.9	90.7

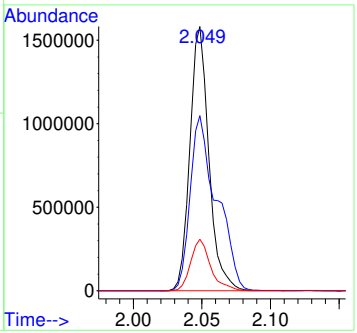


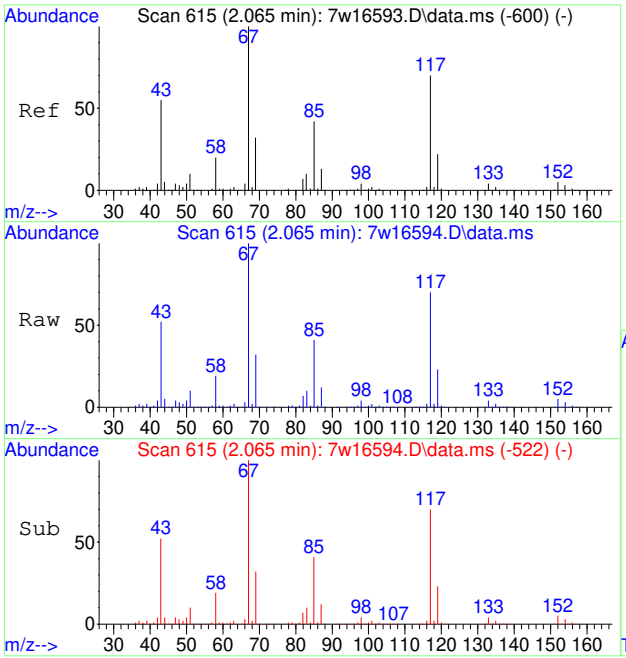


#19
FREON 123
Concen: 61.54 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1521669

Ion	Ratio	Lower	Upper
83	100		
85	92.7	64.9	120.5
133	20.6	14.7	27.3

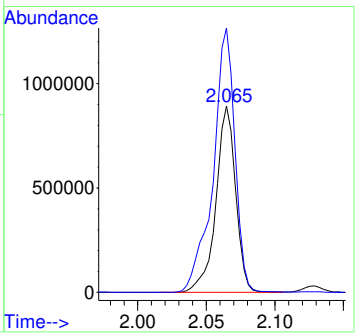


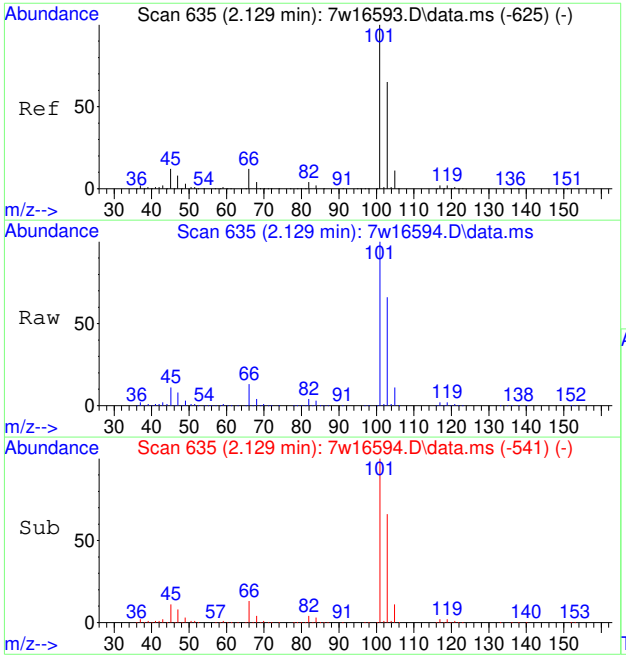


#20
FREON 123A
Concen: 60.73 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 890775

Ion	Ratio	Lower	Upper
117	100		
67	157.1	111.3	206.7

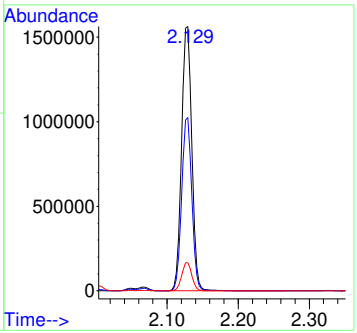


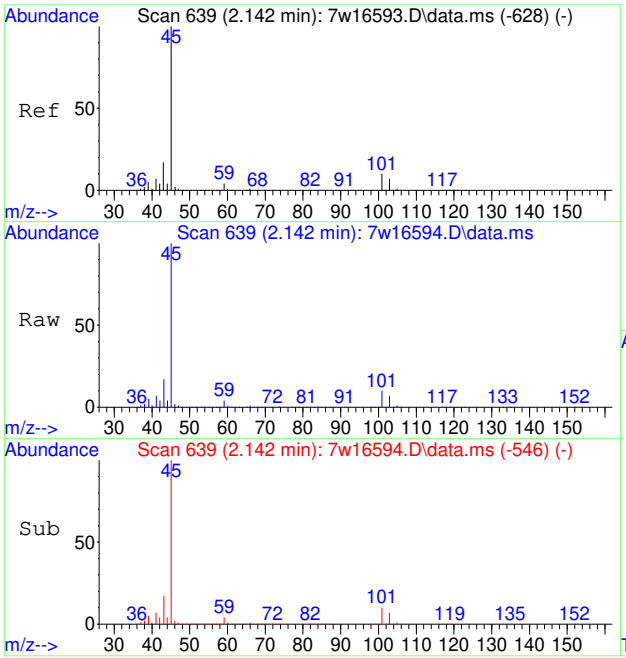


#21
TRICHLOROFLUOROMETHANE
Concen: 55.76 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:101 Resp: 1563139

Ion	Ratio	Lower	Upper
101	100		
103	64.9	45.2	84.0
105	10.6	7.3	13.5

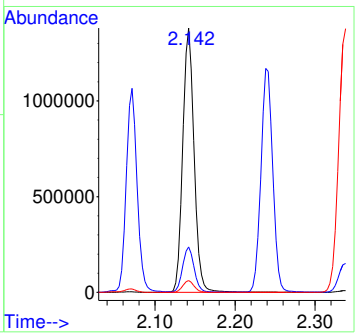


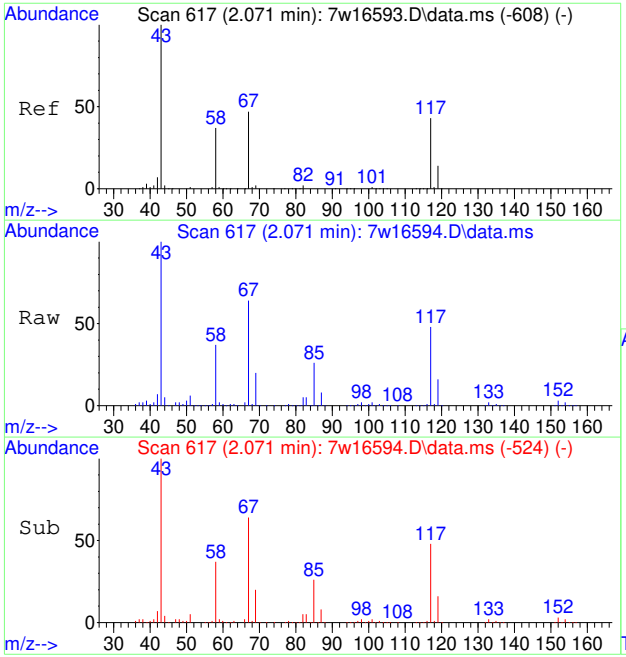


#22
ISOPROPYL ALCOHOL
Concen: 57.05 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 1360413

Ion	Ratio	Lower	Upper
45	100		
43	17.4	12.5	23.3
59	4.5	3.1	5.7

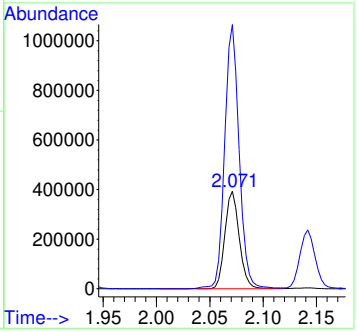


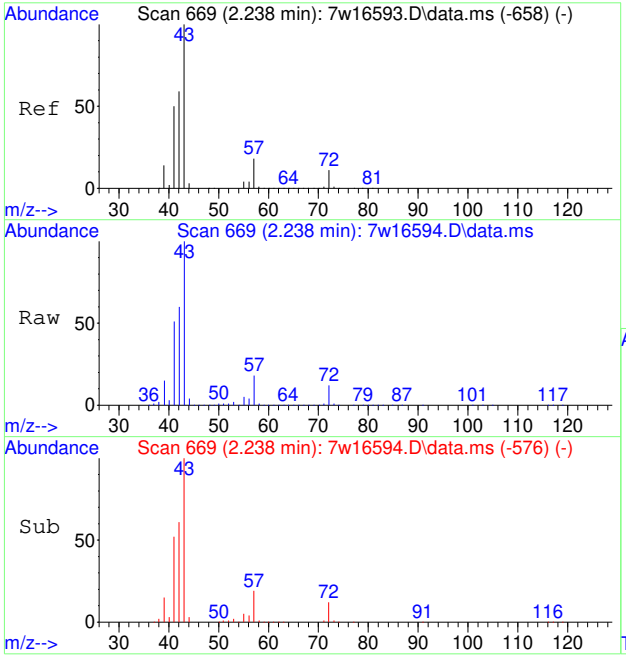


#23
ACETONE
Concen: 56.95 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 370968

Ion	Ratio	Lower	Upper
58	100		
43	271.3	198.6	368.8

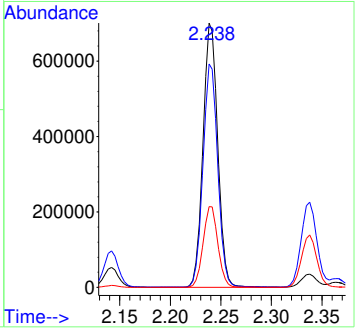


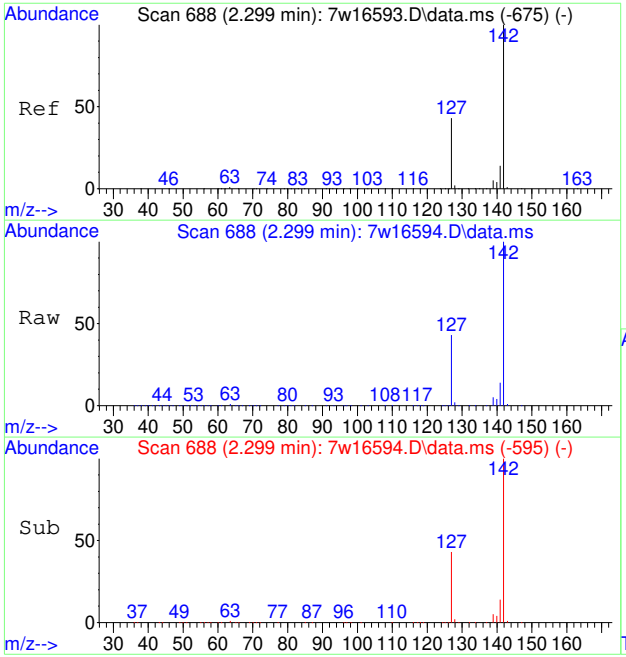


#24
PENTANE
Concen: 54.82 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 42 Resp: 709359

Ion	Ratio	Lower	Upper
42	100		
41	84.8	59.8	111.0
57	30.8	21.1	39.1

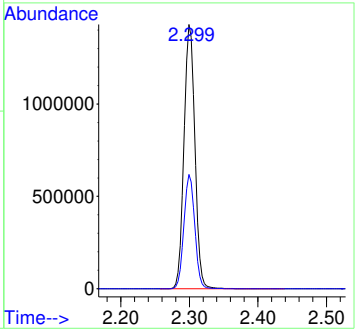


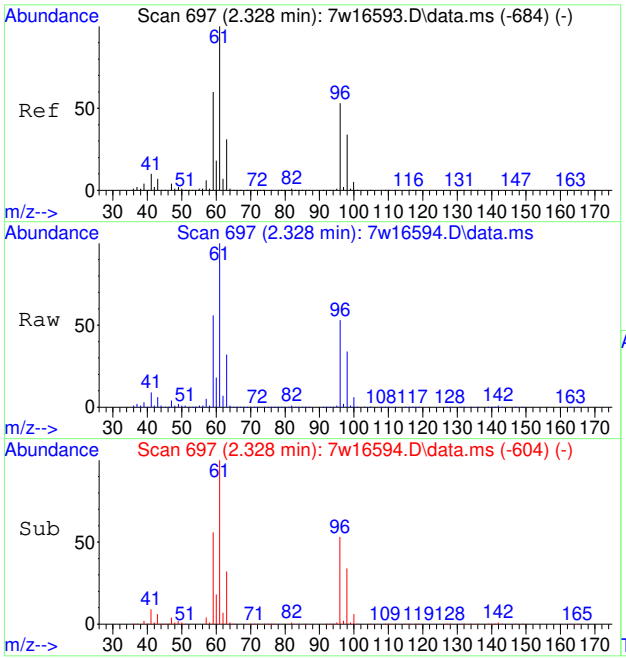


#25
IODOMETHANE
Concen: 61.48 PPBV
RT: 2.299 min Scan# 688
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:142 Resp: 1579517

Ion	Ratio	Lower	Upper
142	100		
127	43.0	30.6	56.8

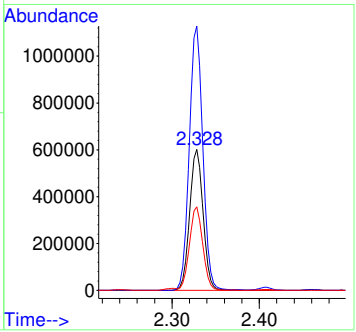


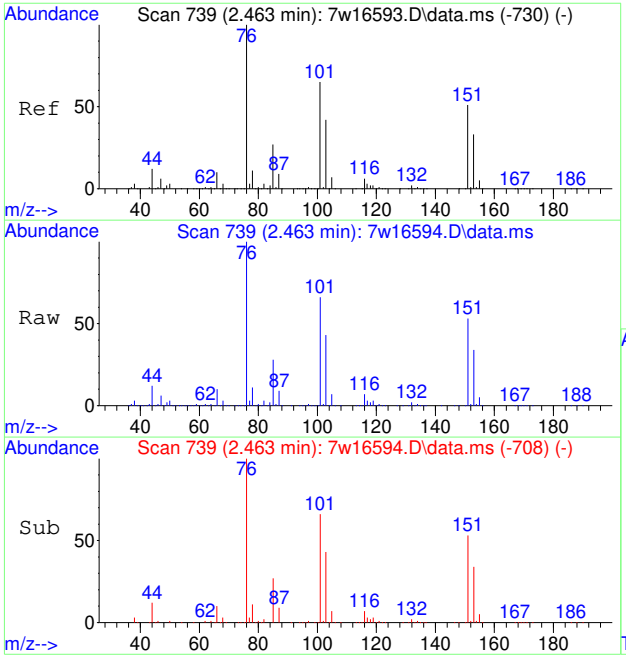


#26
1,1-DICHLOROETHYLENE
Concen: 60.57 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 645693

Ion	Ratio	Lower	Upper
96	100		
61	188.2	138.3	256.8
63	60.1	44.2	82.0

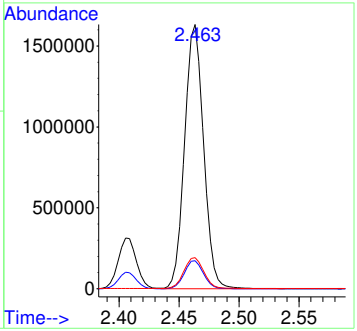


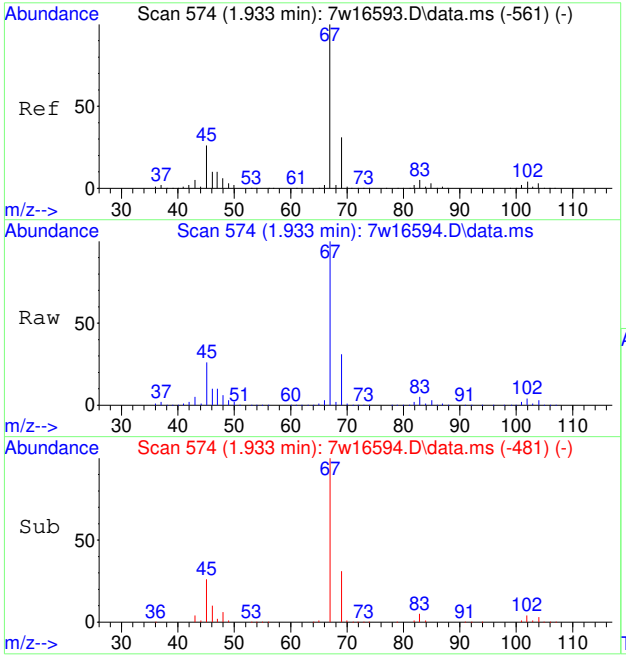


#27
CARBON DISULFIDE
Concen: 59.49 PPBV
RT: 2.463 min Scan# 739
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1800975

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.7	14.3
44	12.2	10.2	19.0

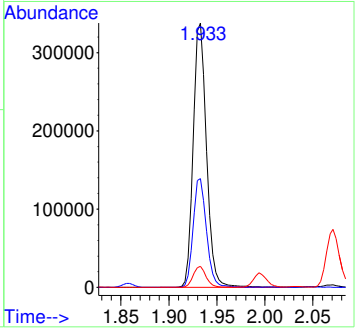


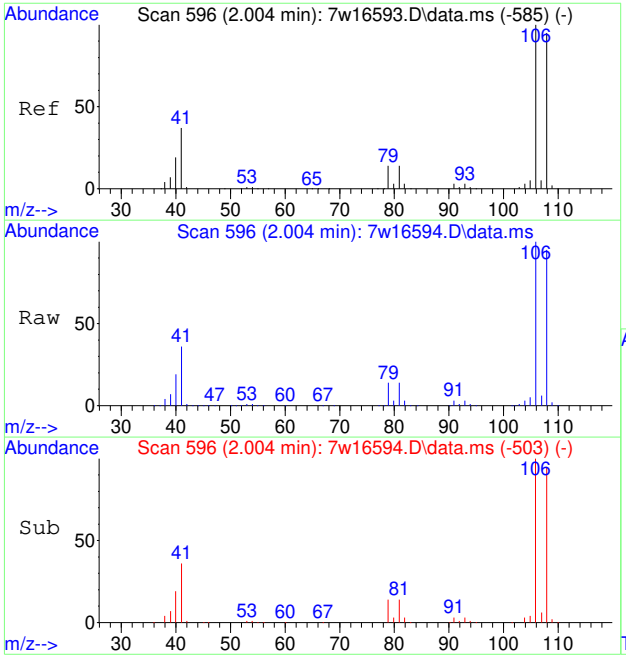


#28
ETHANOL
Concen: 51.26 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 45 Resp: 326453

Ion	Ratio	Lower	Upper
45	100		
46	41.2	29.0	53.9
42	7.7	5.7	10.5

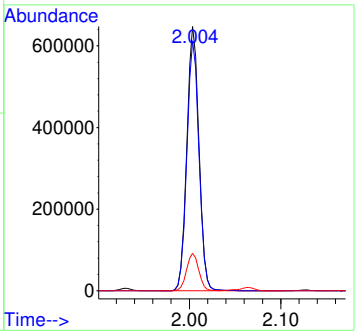


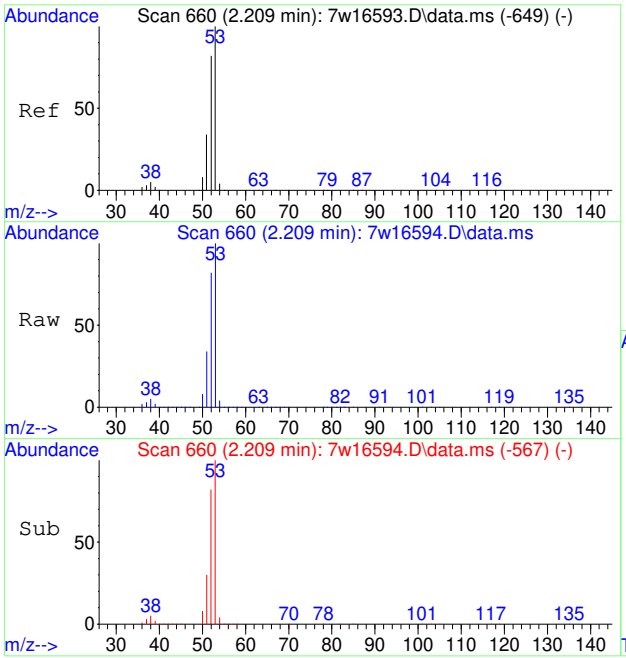


#29
BROMOETHENE
Concen: 58.65 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:106 Resp: 595538

Ion	Ratio	Lower	Upper
106	100		
108	94.5	66.1	122.7
81	14.2	10.6	19.8

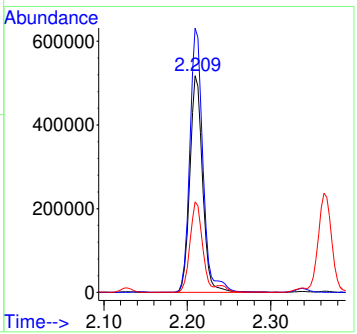


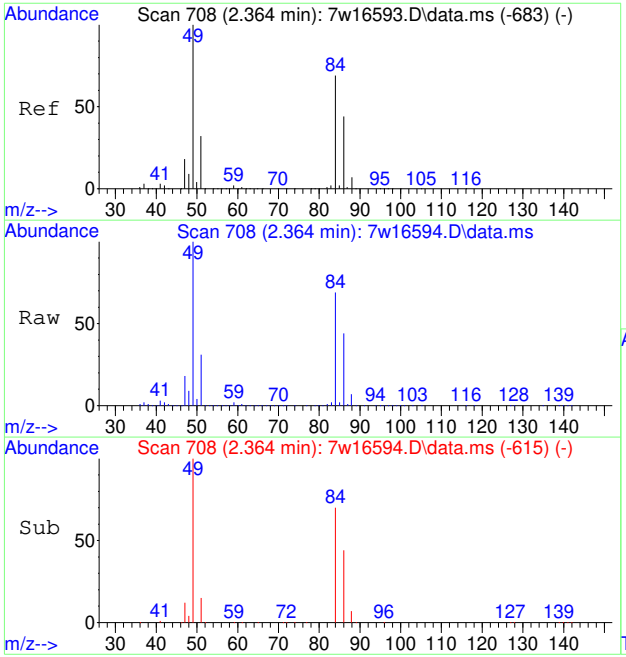


#30
ACRYLONITRILE
Concen: 60.13 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 52 Resp: 549118

Ion	Ratio	Lower	Upper
52	100		
53	125.6	88.2	163.8
51	44.2	31.3	58.1

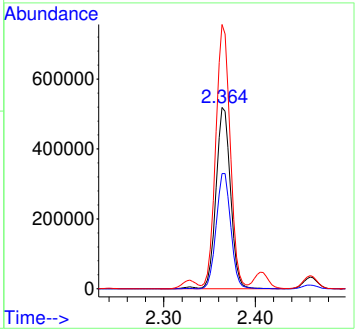


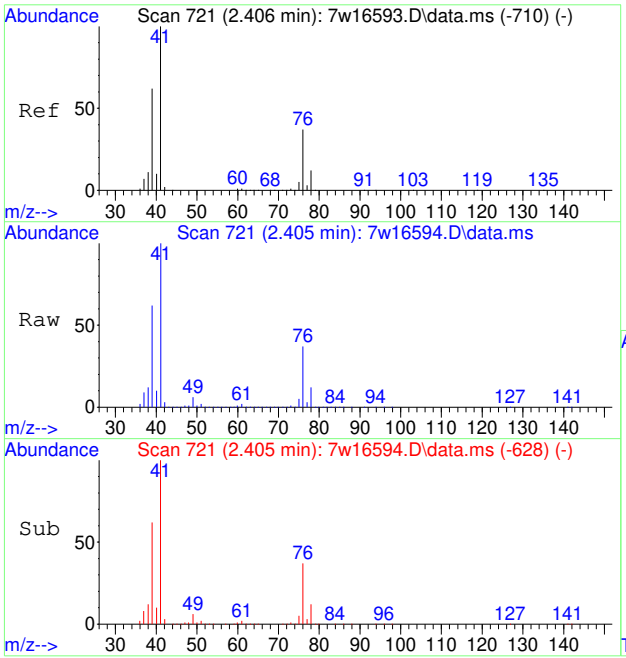


#31
METHYLENE CHLORIDE
Concen: 54.71 PPBV
RT: 2.364 min Scan# 708
Delta R.T. -0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 575223

Ion	Ratio	Lower	Upper
84	100		
86	63.8	44.3	82.3
49	144.7	109.5	203.3

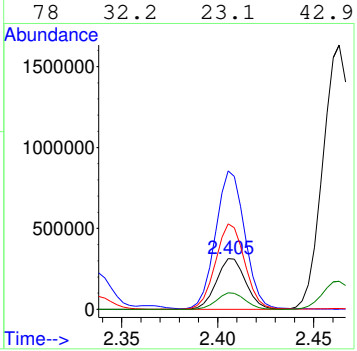


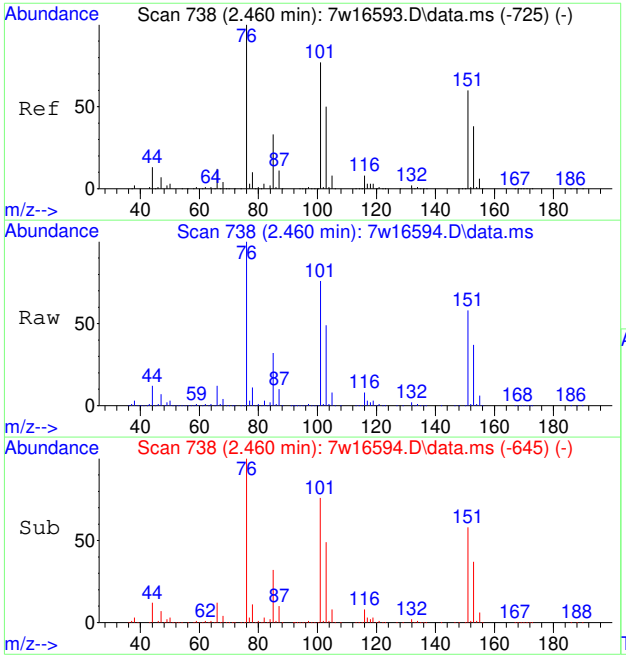


#32
3-CHLOROPROPENE
Concen: 58.47 PPBV
RT: 2.405 min Scan# 721
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 332976

Ion	Ratio	Lower	Upper
76	100		
41	273.7	202.6	376.2
39	168.8	125.8	233.6
78	32.2	23.1	42.9

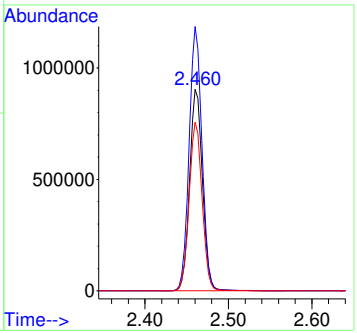


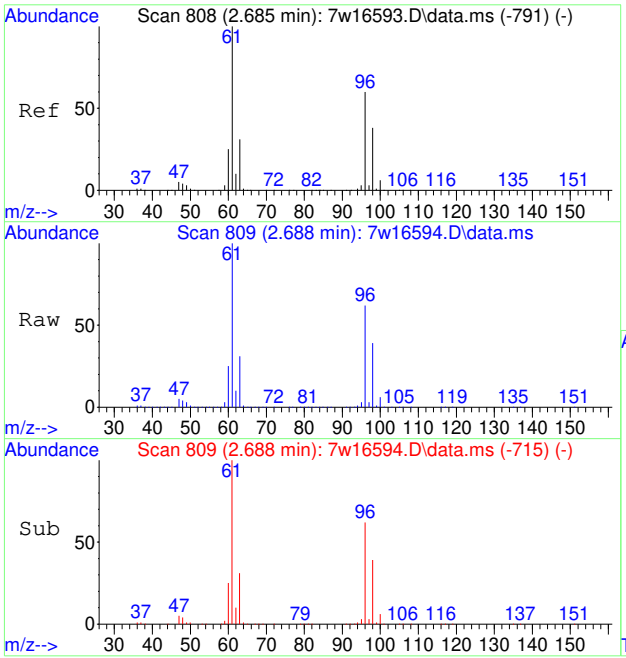


#33
FREON 113
Concen: 60.76 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:151 Resp: 974461

Ion	Ratio	Lower	Upper
151	100		
101	130.5	93.1	172.9
103	84.0	60.1	111.5

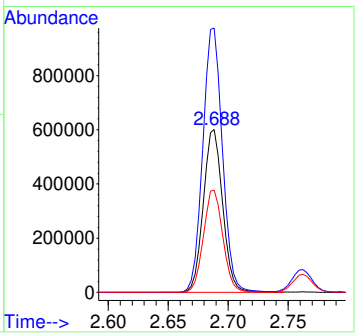


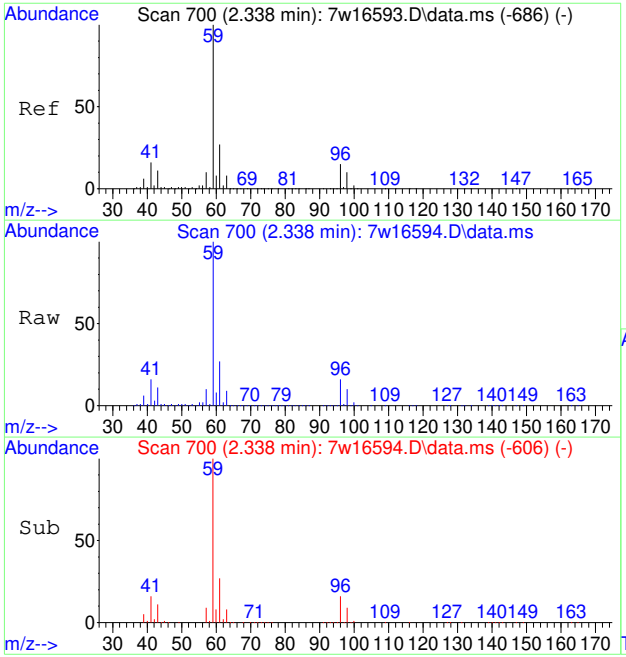


#34
TRANS-1,2-DICHLOROETHENE
Concen: 57.48 PPBV
RT: 2.688 min Scan# 809
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 674414

Ion	Ratio	Lower	Upper
96	100		
61	164.4	119.6	222.0
98	63.1	44.9	83.5

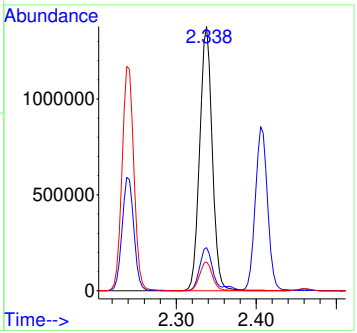


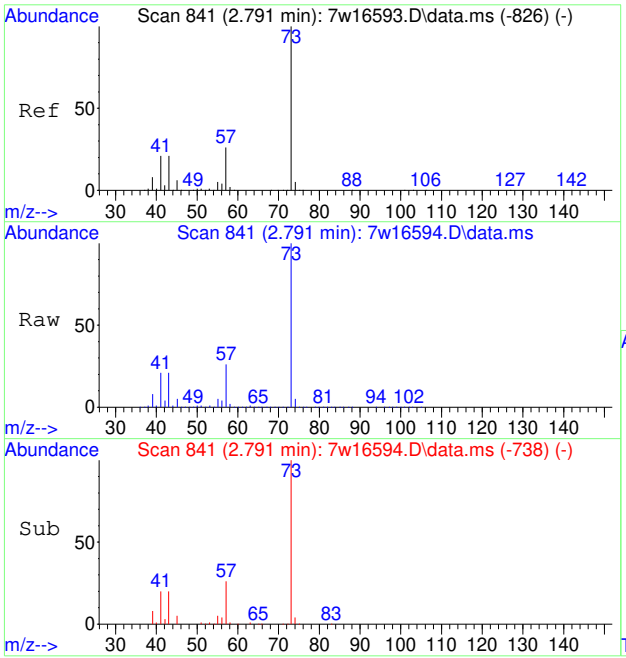


#35
TERTIARY BUTYL ALCOHOL
Concen: 50.59 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 1507671

Ion	Ratio	Lower	Upper
59	100		
41	17.8	12.9	23.9
43	11.0	8.0	14.8

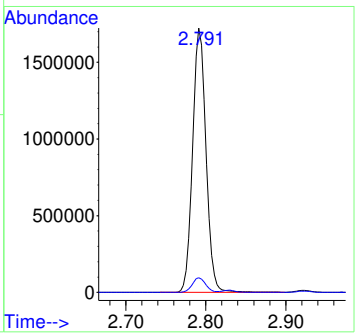


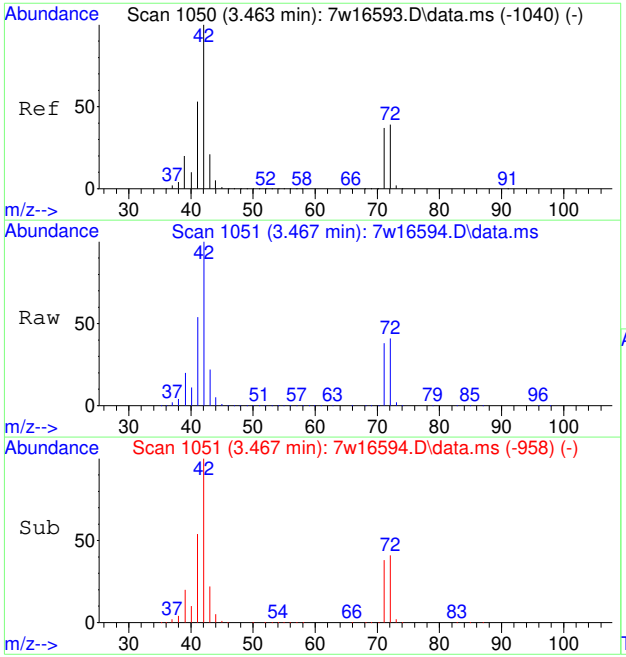


#36
METHYL TERTIARY BUTYL ETHER
Concen: 60.14 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 73 Resp: 2004125

Ion	Ratio	Lower	Upper
73	100		
45	5.5	4.1	7.5

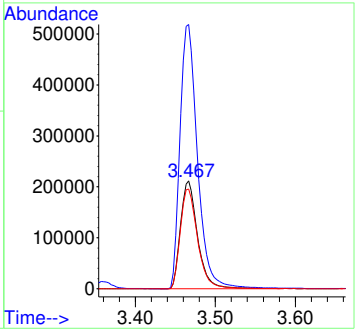


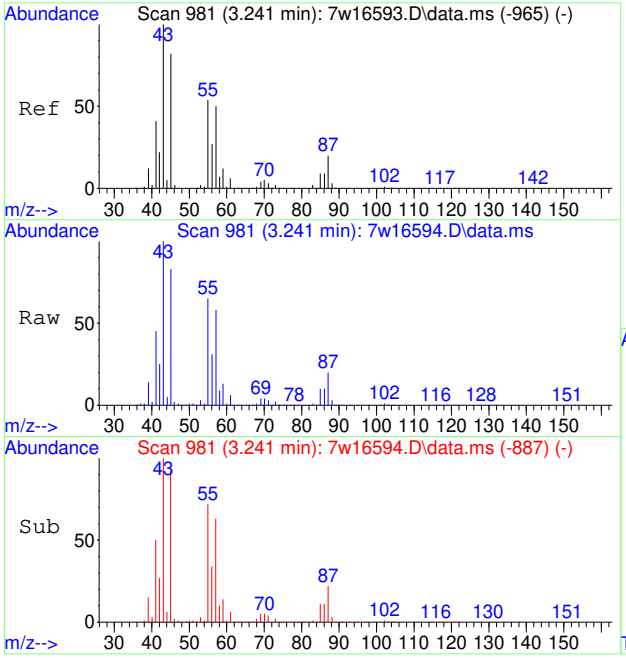


#37
TETRAHYDROFURAN
Concen: 58.71 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 315623

Ion	Ratio	Lower	Upper
72	100		
42	250.8	180.3	334.8
71	94.1	65.8	122.2

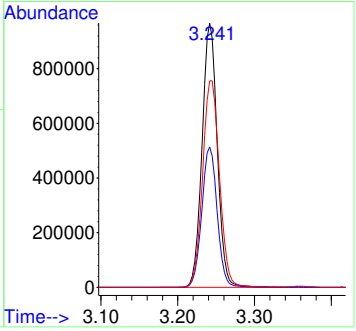


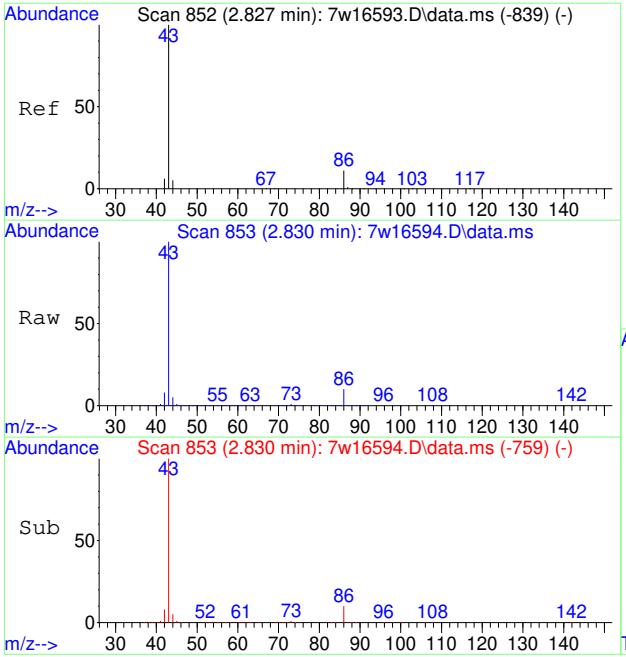


#38
HEXANE
Concen: 59.12 PPBV
RT: 3.241 min Scan# 981
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1329253

Ion	Ratio	Lower	Upper
57	100		
56	54.0	38.0	70.6
41	86.9	65.9	122.5

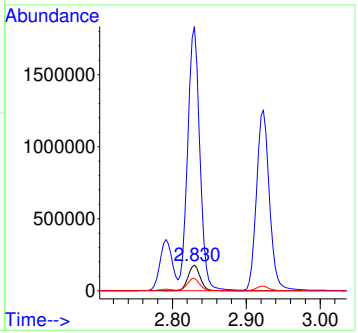


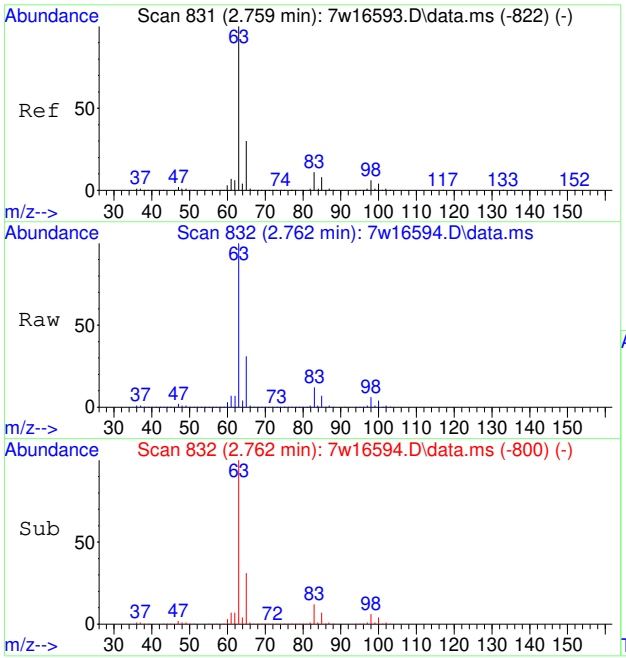


#39
VINYL ACETATE
Concen: 64.15 PPBV
RT: 2.830 min Scan# 853
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 86 Resp: 203564

Ion	Ratio	Lower	Upper
86	100		
43	1037.6	758.7	1408.9
44	49.0	39.5	73.3

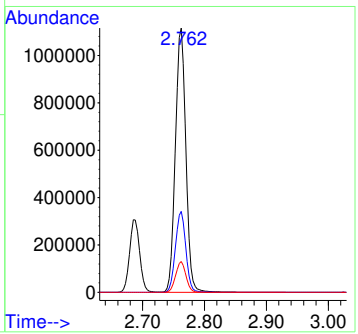


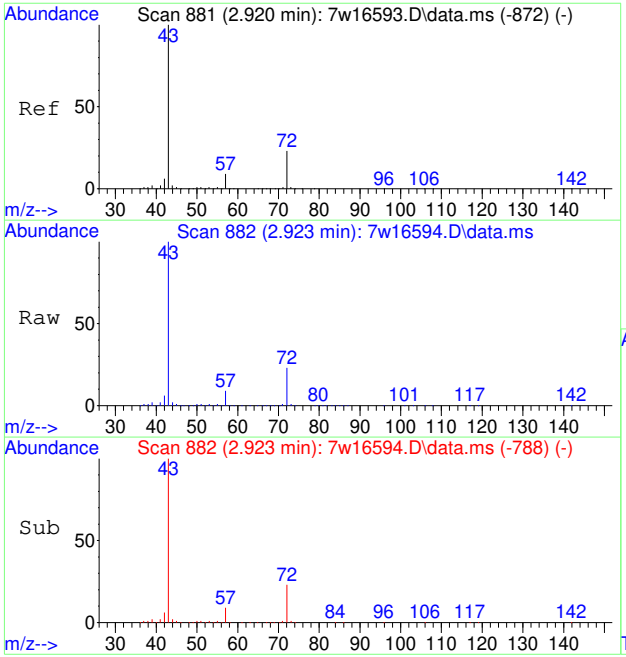


#40
1,1-DICHLOROETHANE
Concen: 57.90 PPBV
RT: 2.762 min Scan# 832
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 1312399

Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.4	39.8
83	11.6	8.3	15.5

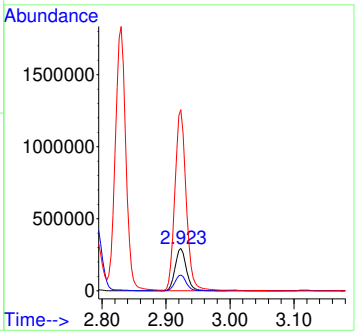


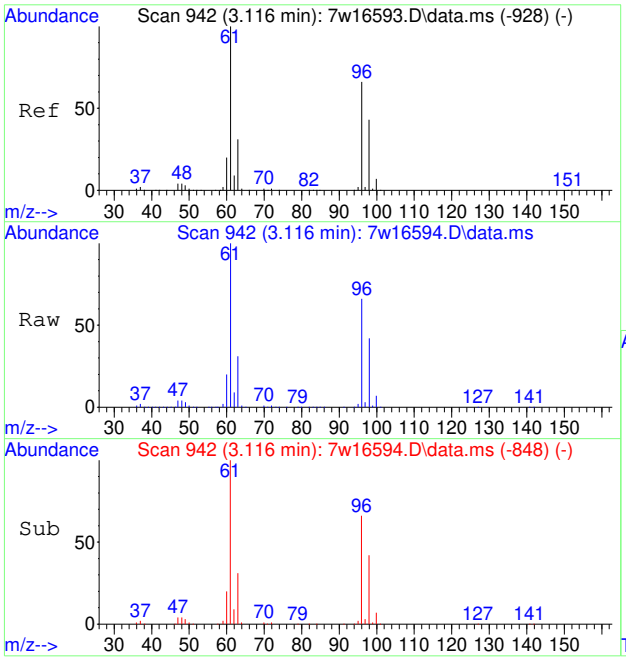


#41
METHYL ETHYL KETONE
Concen: 58.79 PPBV
RT: 2.923 min Scan# 882
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 72 Resp: 360548

Ion	Ratio	Lower	Upper
72	100		
57	37.4	26.9	49.9
43	429.0	309.4	574.6

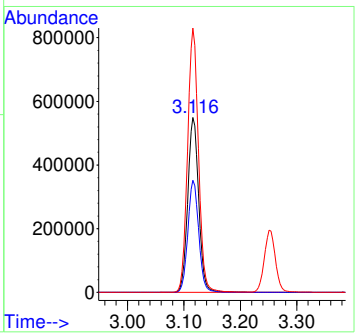


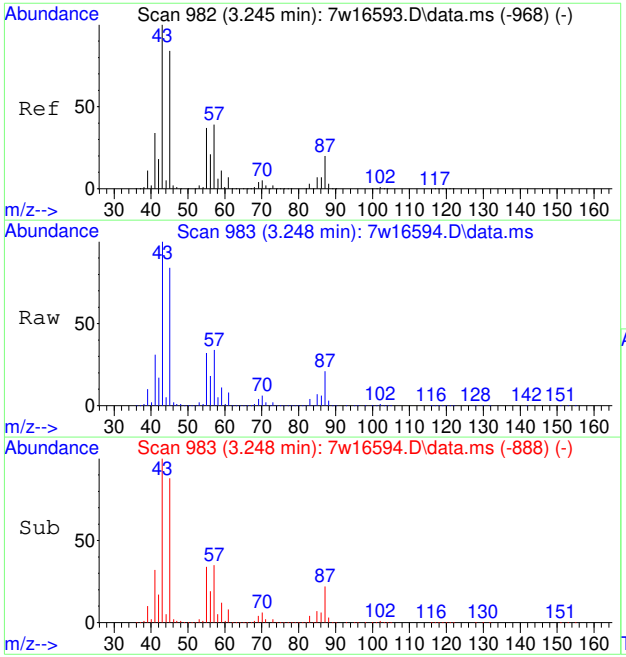


#42
CIS-1,2-DICHLOROETHENE
Concen: 60.78 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 96 Resp: 737182

Ion	Ratio	Lower	Upper
96	100		
98	63.9	44.7	83.1
61	150.4	107.3	199.3

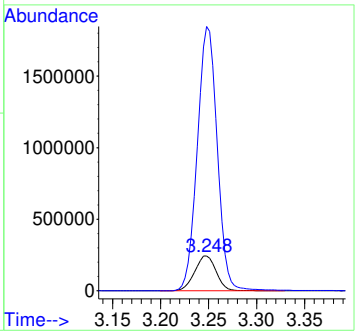


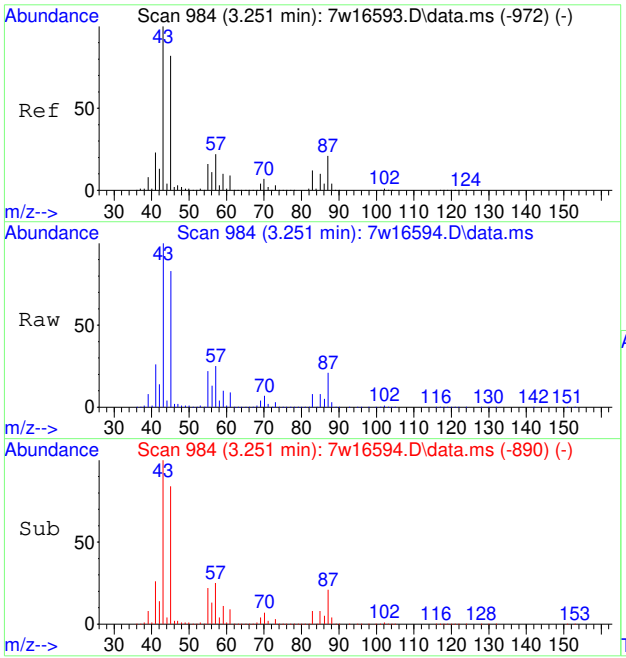


#43
DIISOPROPYL ETHER
Concen: 59.86 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 59 Resp: 381162

Ion	Ratio	Lower	Upper
59	100		
45	704.4	517.6	961.2

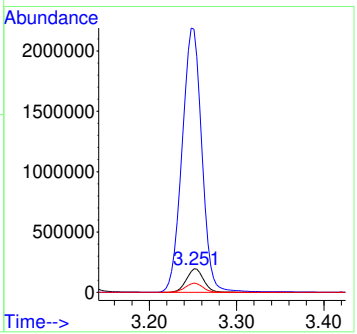


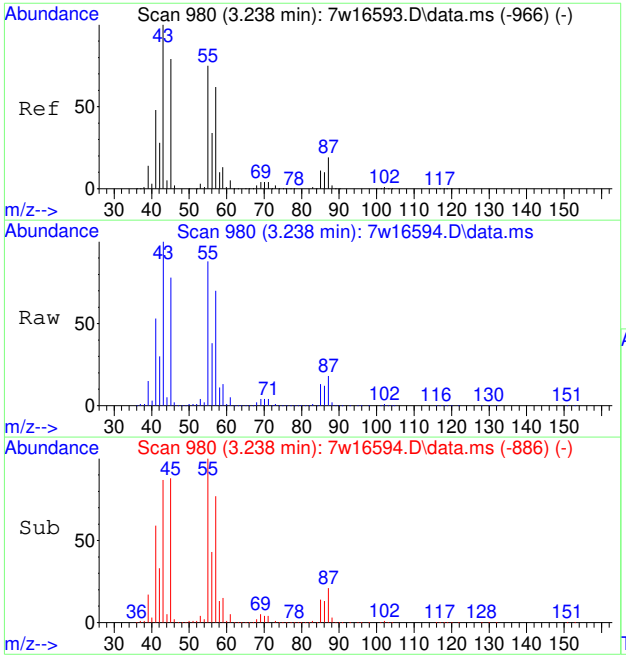


#44
ETHYL ACETATE
Concen: 63.06 PPBV
RT: 3.251 min Scan# 984
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 61 Resp: 270078

Ion	Ratio	Lower	Upper
61	100		
43	1278.6	955.4	1774.4
88	40.5	27.6	51.2

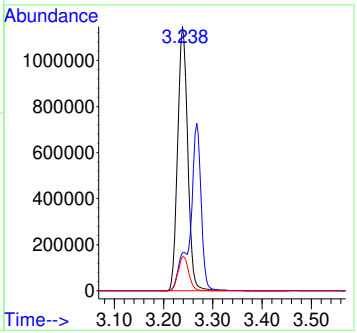


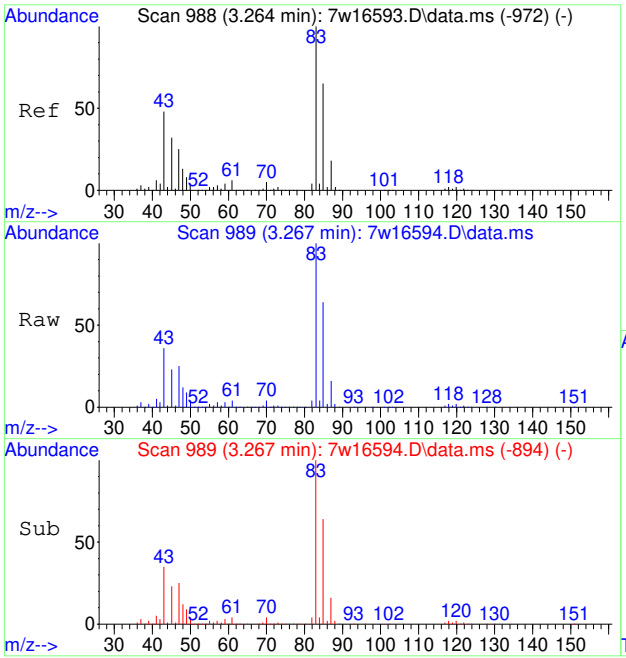


#45
METHYL ACRYLATE
Concen: 60.36 PPBV
RT: 3.238 min Scan# 980
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 1639035

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

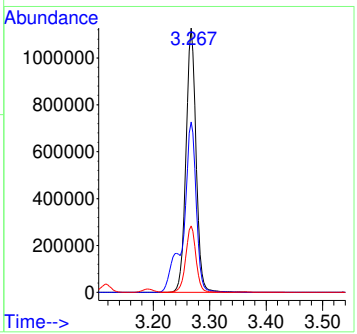


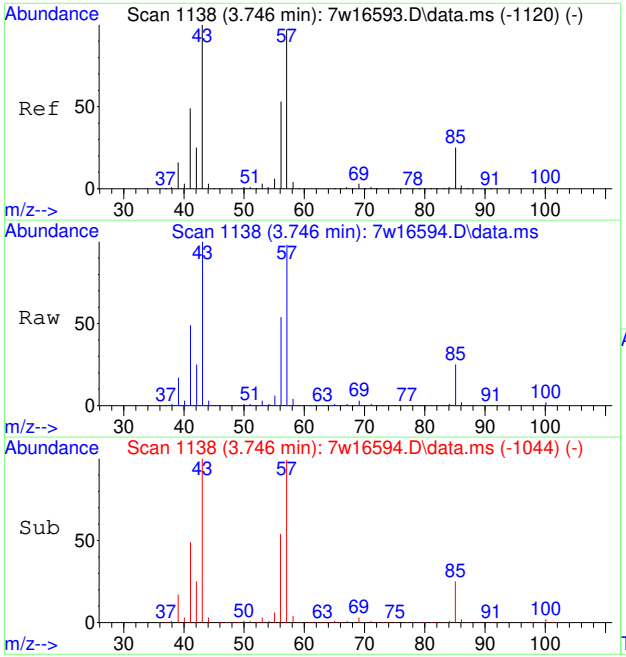


#46
CHLOROFORM
Concen: 59.52 PPBV
RT: 3.267 min Scan# 989
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1396609

Ion	Ratio	Lower	Upper
83	100		
85	81.5	56.0	104.0
47	25.8	19.0	35.4

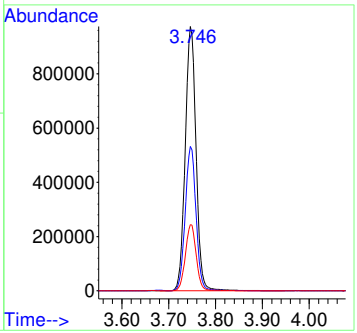


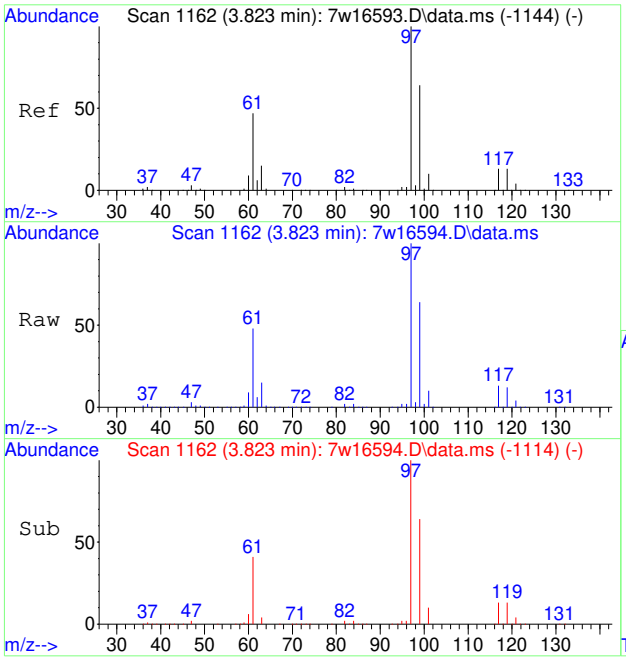


#47
2,4-DIMETHYLPENTANE
Concen: 62.29 PPBV
RT: 3.746 min Scan# 1138
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 1562455

Ion	Ratio	Lower	Upper
57	100		
56	54.7	38.4	71.2
85	25.2	17.5	32.5

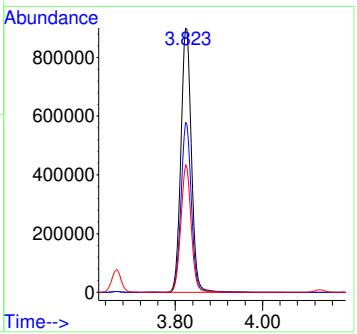


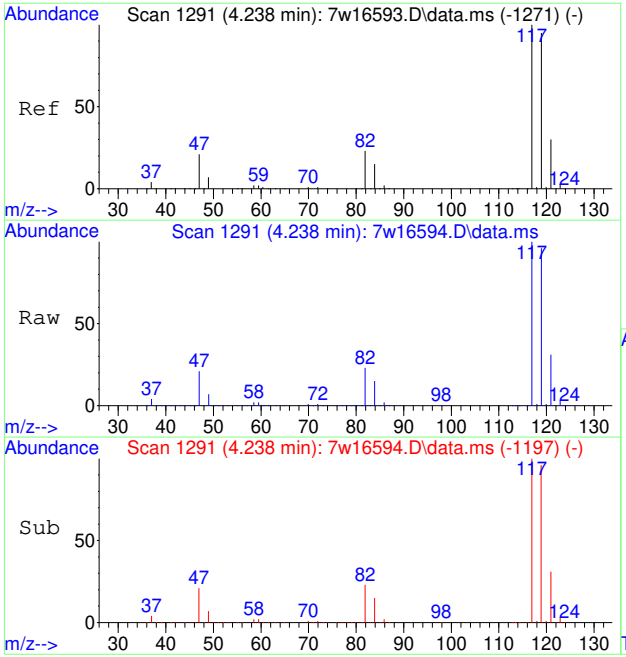


#48
1,1,1-TRICHLOROETHANE
Concen: 61.02 PPBV
RT: 3.823 min Scan# 1162
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 97 Resp: 1503844

Ion	Ratio	Lower	Upper
97	100		
99	63.9	45.0	83.6
61	47.7	34.7	64.5

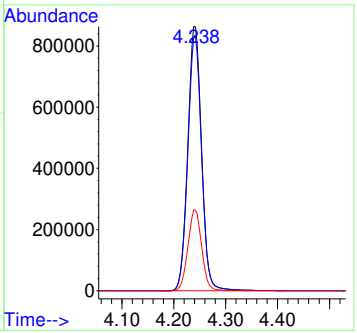


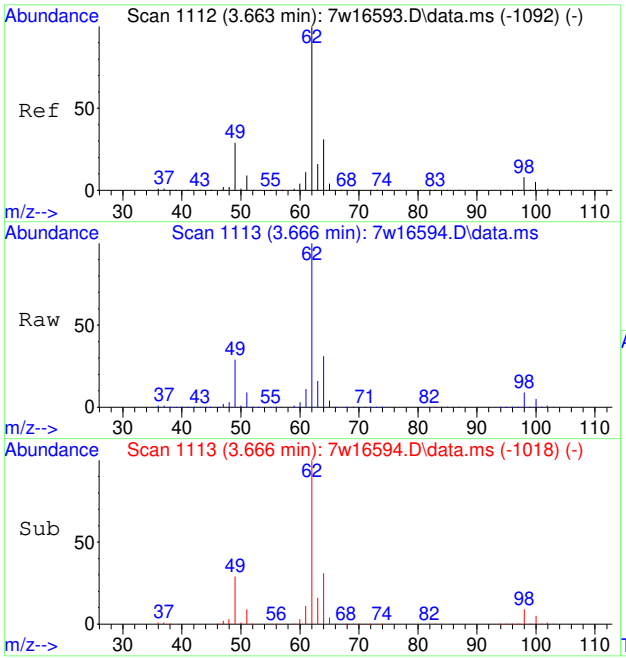


#49
CARBON TETRACHLORIDE
Concen: 62.67 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1592865

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.5	125.3
121	30.7	21.3	39.5

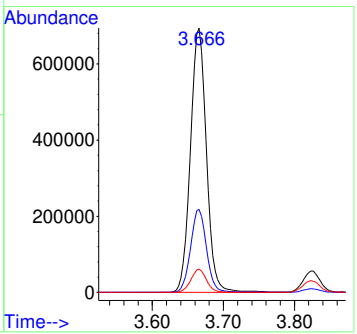


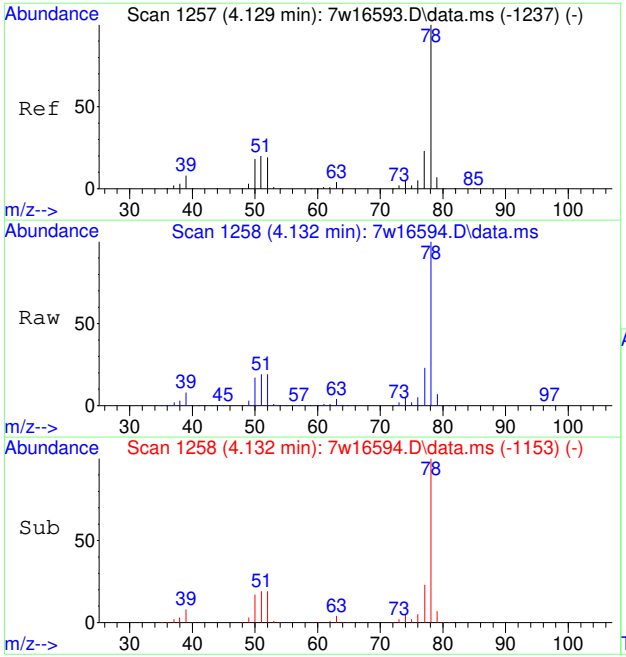


#50
1,2-DICHLOROETHANE
Concen: 59.76 PPBV
RT: 3.666 min Scan# 1113
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 62 Resp: 1086518

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.7	5.8	10.8

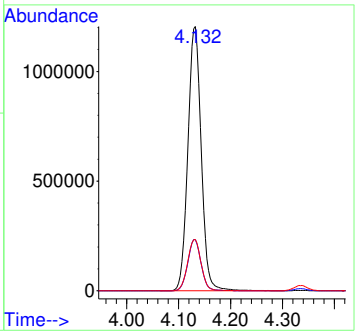


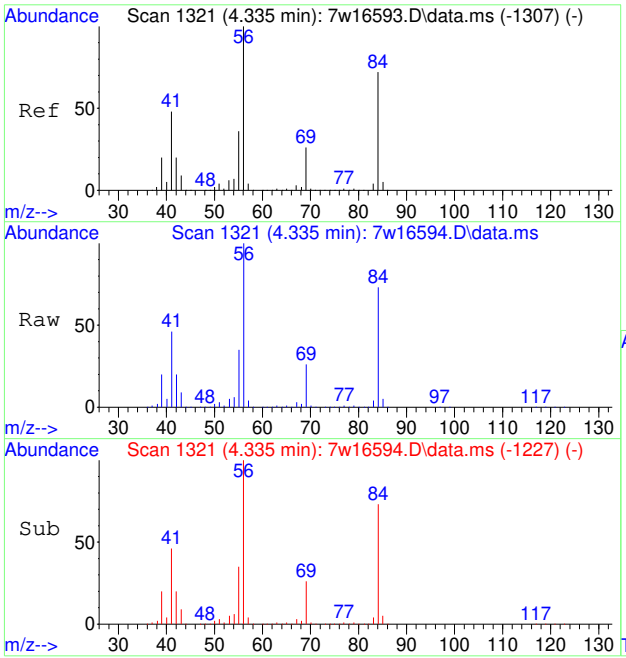


#51
BENZENE
Concen: 59.55 PPBV
RT: 4.132 min Scan# 1258
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 78 Resp: 2141182

Ion	Ratio	Lower	Upper
78	100		
52	19.5	0.0	49.9
51	19.7	0.0	50.6

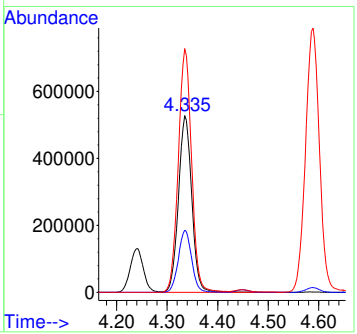


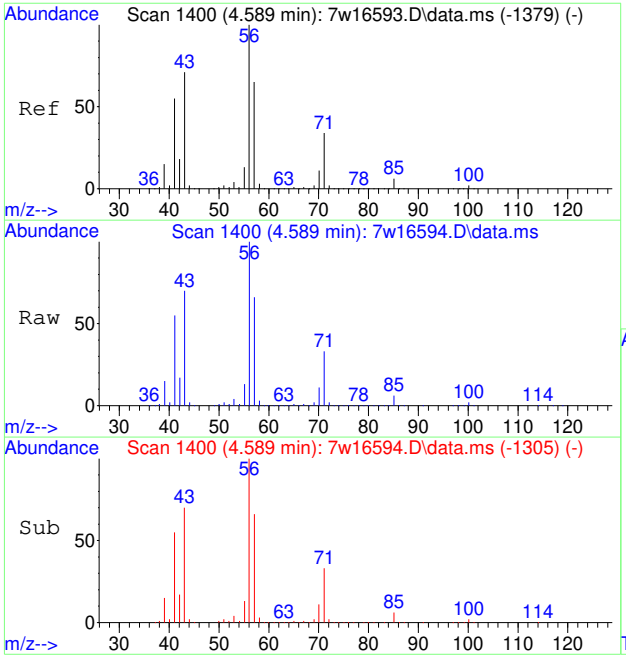


#53
CYCLOHEXANE
Concen: 62.31 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 84 Resp: 968144

Ion	Ratio	Lower	Upper
84	100		
69	35.1	24.6	45.6
56	137.7	96.4	179.0

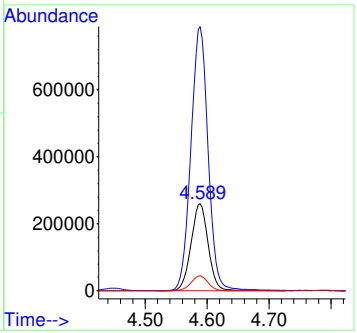


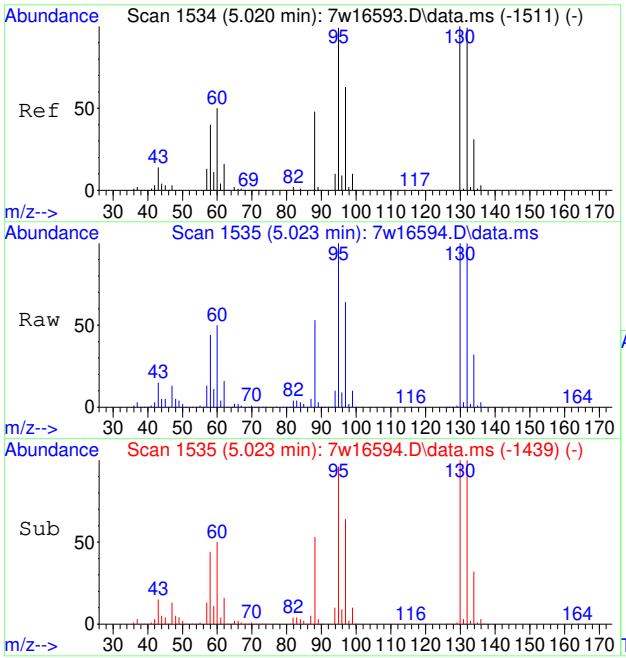


#54
2,3-DIMETHYLPENTANE
Concen: 64.89 PPBV
RT: 4.589 min Scan# 1400
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 71 Resp: 501690

Ion	Ratio	Lower	Upper
71	100		
56	303.6	213.2	396.0
85	17.4	12.2	22.6

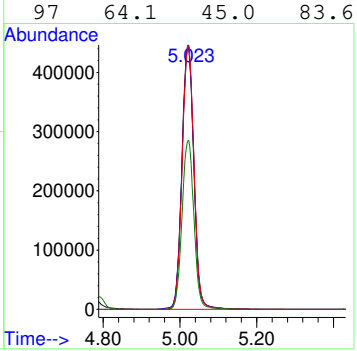


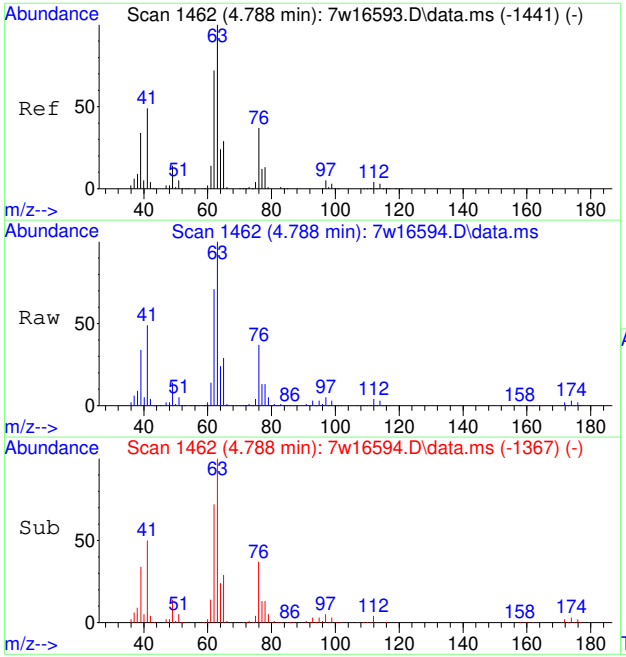


#55
TRICHLOROETHENE
Concen: 57.89 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 95 Resp: 961087

Ion	Ratio	Lower	Upper
95	100		
130	100.0	69.4	129.0
132	99.5	69.4	128.8
97	64.1	45.0	83.6

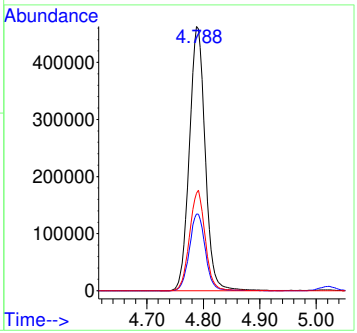


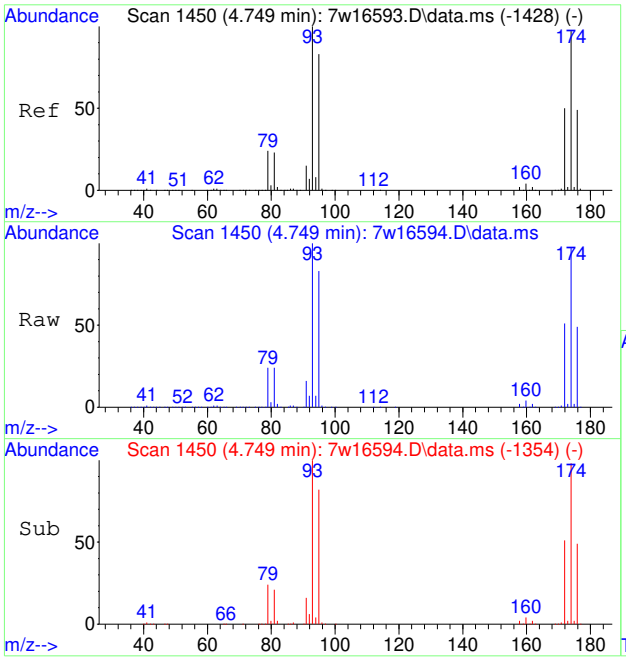


#56
1,2-DICHLOROPROPANE
Concen: 61.43 PPBV
RT: 4.788 min Scan# 1462
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 63 Resp: 899764

Ion	Ratio	Lower	Upper
63	100		
65	29.5	20.5	38.1
76	37.8	27.1	50.3

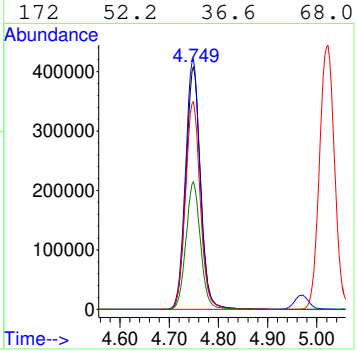


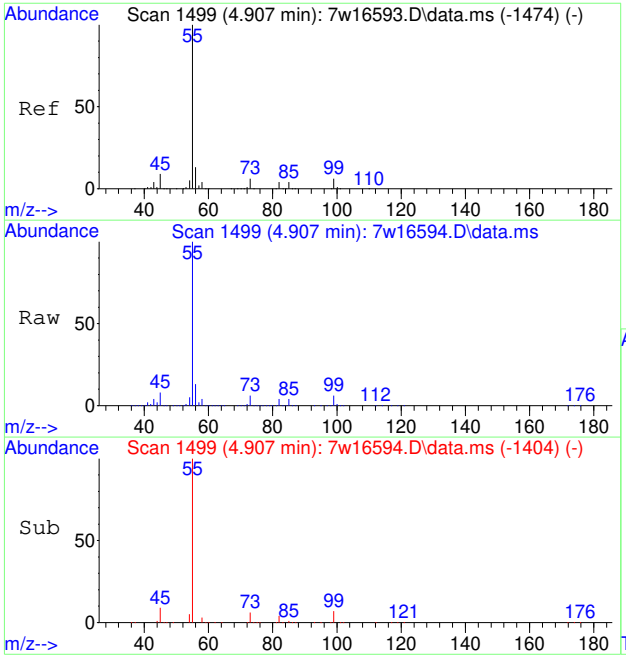


#57
DIBROMOMETHANE
Concen: 59.53 PPBV
RT: 4.749 min Scan# 1450
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:174 Resp: 843168

Ion	Ratio	Lower	Upper
174	100		
93	104.3	75.3	139.9
95	87.0	62.4	115.8
172	52.2	36.6	68.0

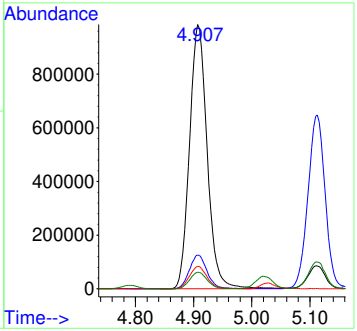


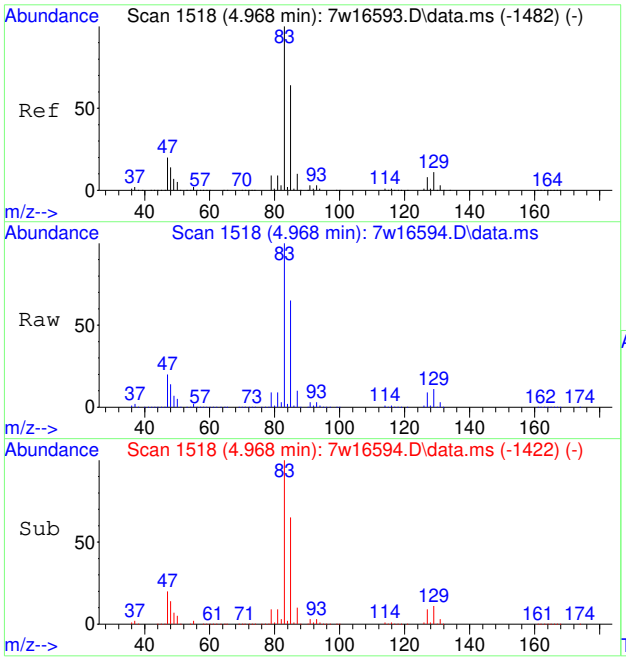


#58
ETHYL ACRYLATE
Concen: 63.61 PPBV
RT: 4.907 min Scan# 1499
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 55 Resp: 2081872

Ion	Ratio	Lower	Upper
55	100		
56	12.8	9.1	16.9
45	8.5	6.1	11.3
99	6.2	4.3	8.1

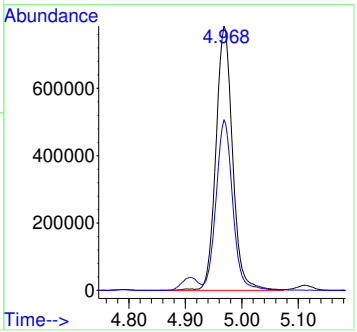


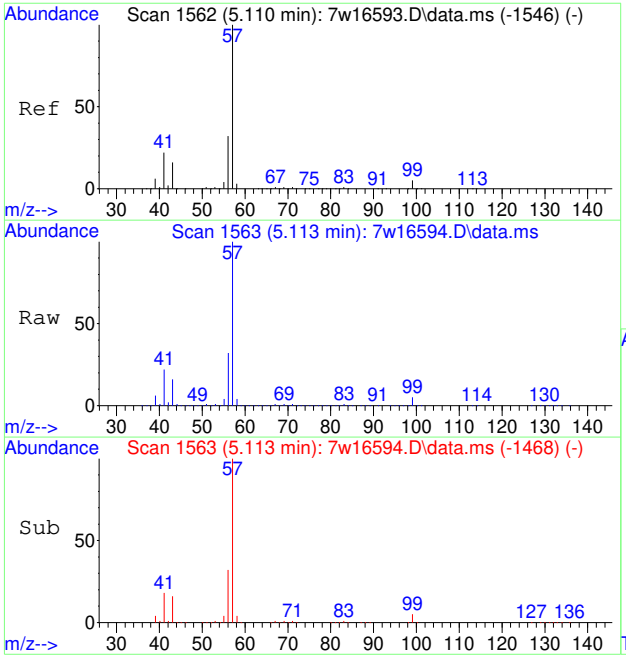


#59
BROMODICHLOROMETHANE
Concen: 60.60 PPBV
RT: 4.968 min Scan# 1518
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 1618277

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

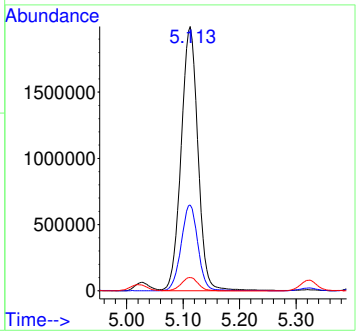


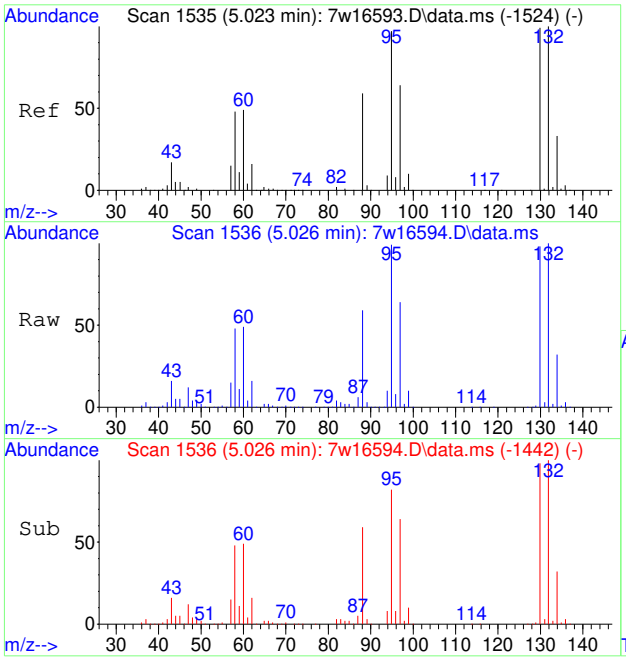


#60
2,2,4-TRIMETHYLPENTANE
Concen: 57.19 PPBV
RT: 5.113 min Scan# 1563
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 57 Resp: 4127531

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.1	3.6	6.8

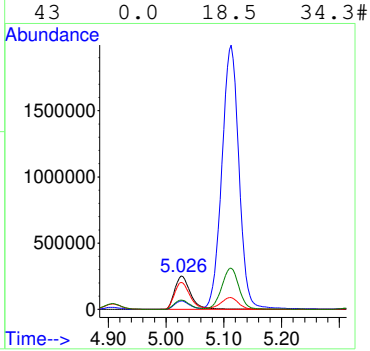


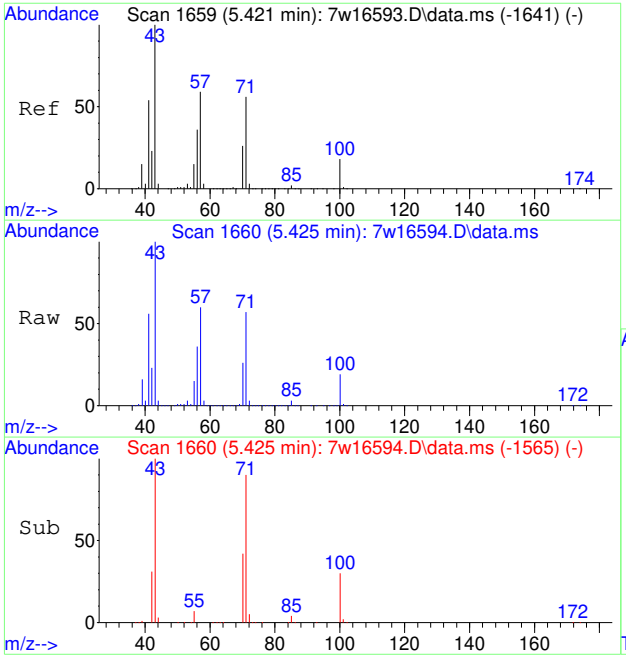


#61
1,4-DIOXANE
Concen: 61.98 PPBV m
RT: 5.026 min Scan# 1536
Delta R.T. 0.003 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 88 Resp: 483214

Ion	Ratio	Lower	Upper
88	100		
57	0.0	16.7	30.9#
58	0.0	52.4	97.4#
43	0.0	18.5	34.3#

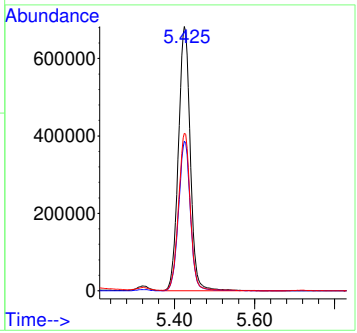


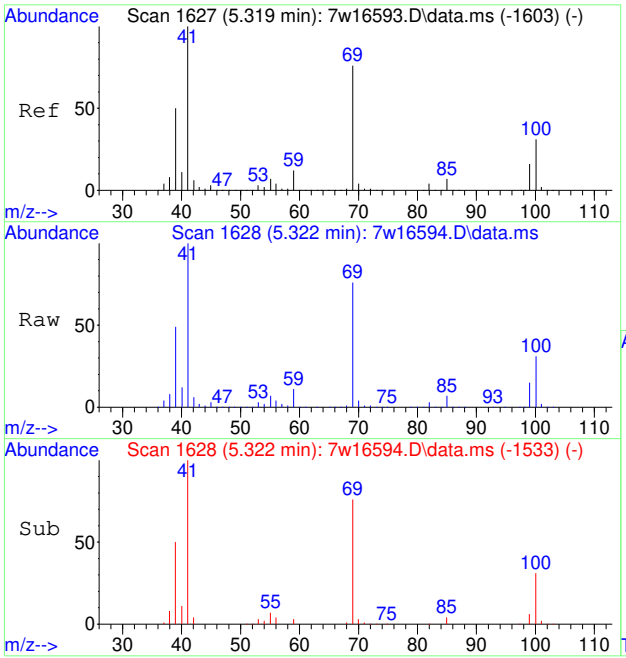


#62
HEPTANE
Concen: 59.03 PPBV
RT: 5.425 min Scan# 1660
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1404941

Ion	Ratio	Lower	Upper
43	100		
71	56.5	38.9	72.2
57	59.8	40.5	75.3

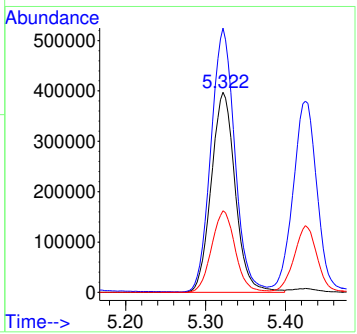


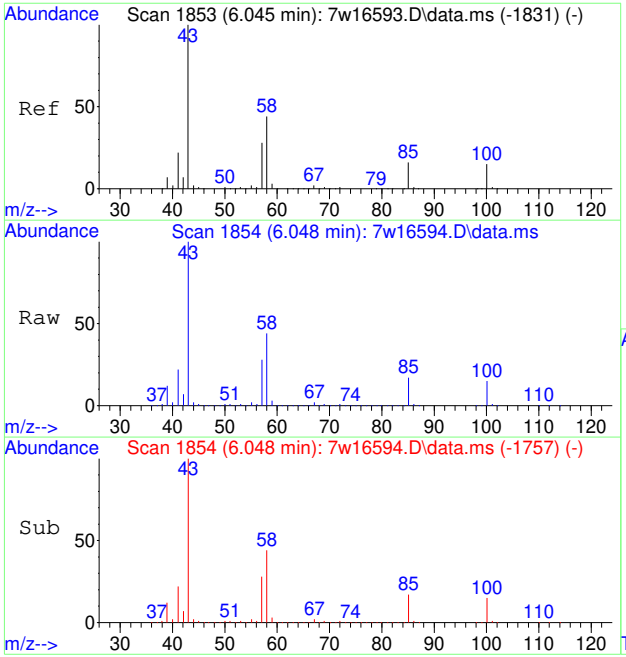


#63
METHYL METHACRYLATE
Concen: 62.06 PPBV
RT: 5.322 min Scan# 1628
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 825175

Ion	Ratio	Lower	Upper
69	100		
41	130.8	95.5	177.4
100	40.3	28.1	52.1

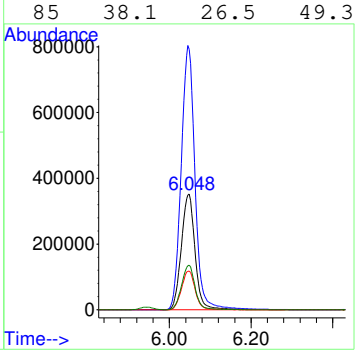


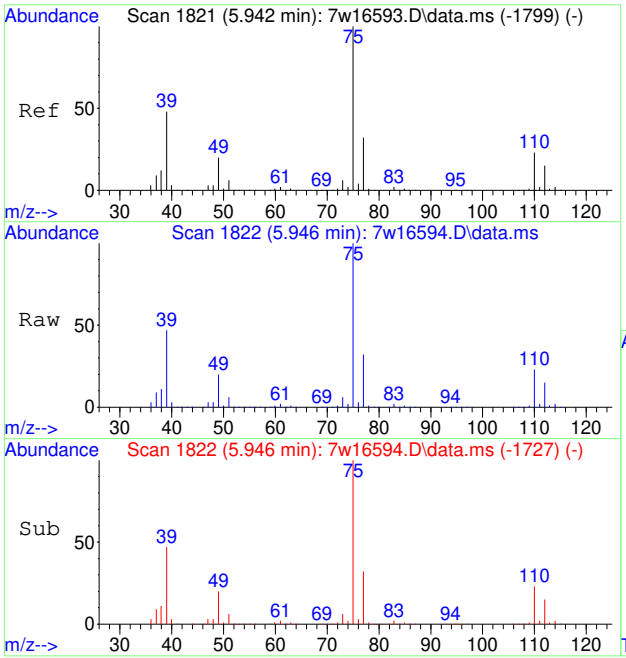


#64
METHYL ISOBUTYL KETONE
Concen: 57.66 PPBV
RT: 6.048 min Scan# 1854
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 823387

Ion	Ratio	Lower	Upper
58	100		
43	0.0	163.8	304.2#
100	33.8	23.2	43.2
85	38.1	26.5	49.3

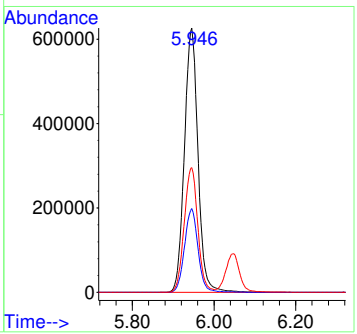


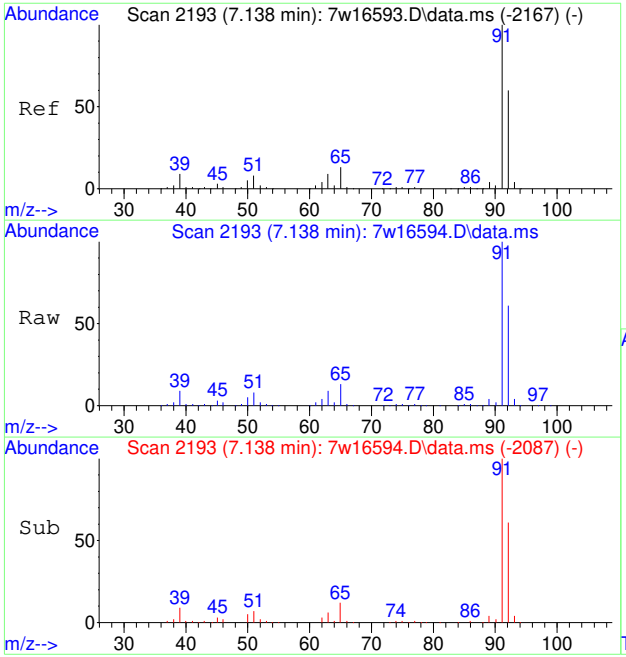


#65
CIS-1,3-DICHLOROPROPENE
Concen: 64.81 PPBV
RT: 5.946 min Scan# 1822
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1444587

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.0	41.0
39	47.4	35.7	66.3

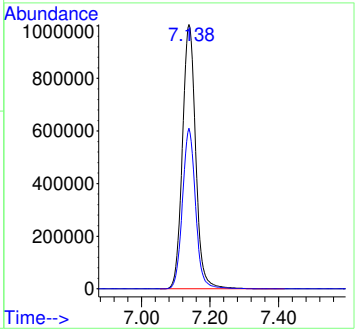


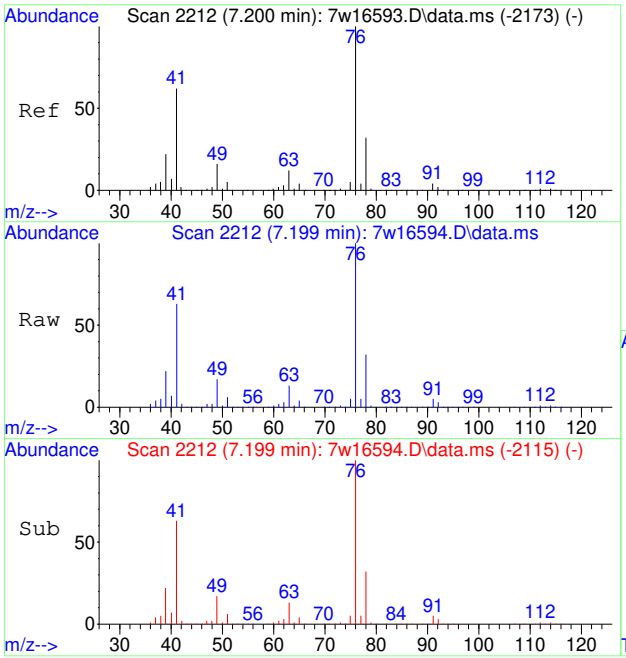


#66
TOLUENE
Concen: 63.95 PPBV
RT: 7.138 min Scan# 2193
Delta R.T. 0.009 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2694962

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

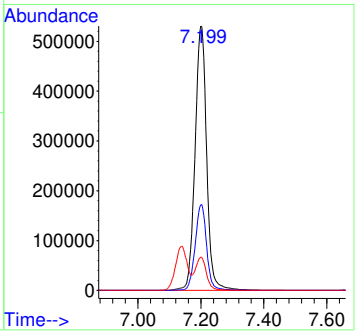


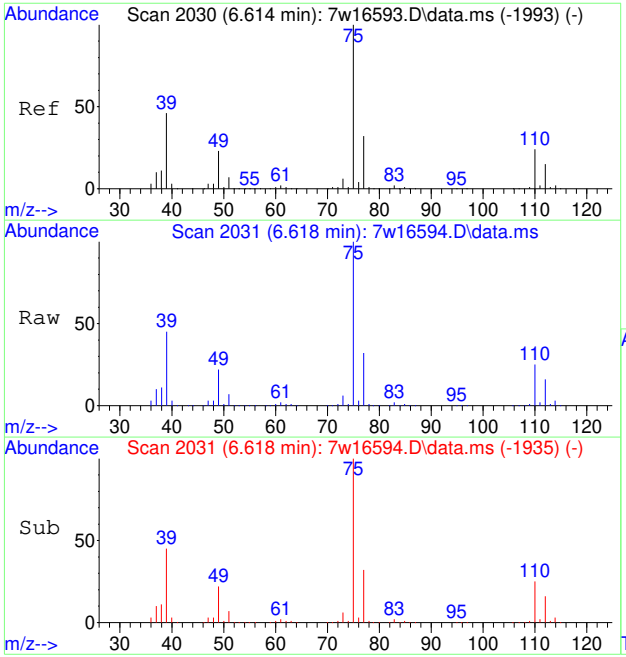


#67
1,3-DICHLOROPROPANE
Concen: 64.47 PPBV
RT: 7.199 min Scan# 2212
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 76 Resp: 1360921

Ion	Ratio	Lower	Upper
76	100		
78	32.3	22.4	41.6
63	12.7	8.3	15.5

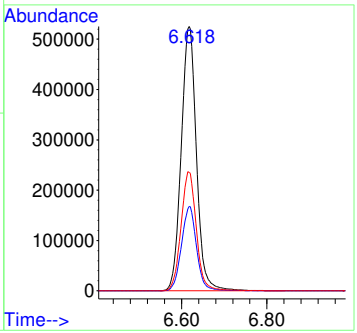


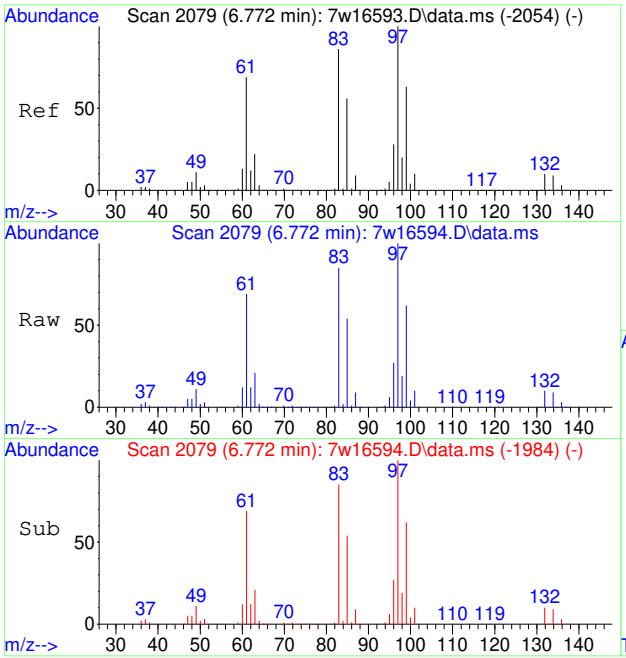


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 65.06 PPBV
RT: 6.618 min Scan# 2031
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1302469

Ion	Ratio	Lower	Upper
75	100		
77	31.7	22.3	41.5
39	45.4	33.9	63.0

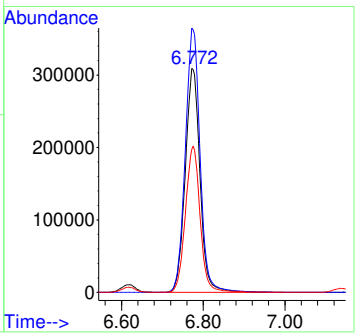


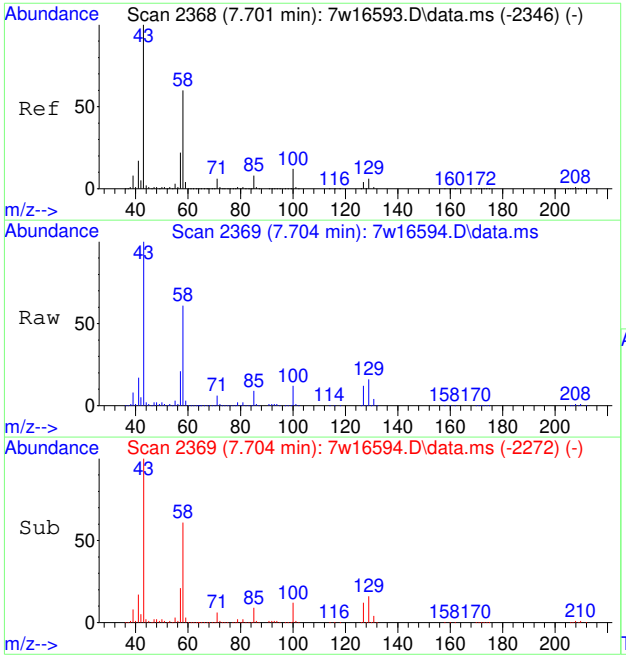


#69
1,1,2-TRICHLOROETHANE
Concen: 64.67 PPBV
RT: 6.772 min Scan# 2079
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 774964

Ion	Ratio	Lower	Upper
83	100		
97	0.0	81.2	150.8#
85	65.3	45.1	83.7

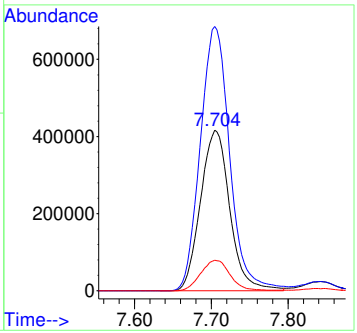


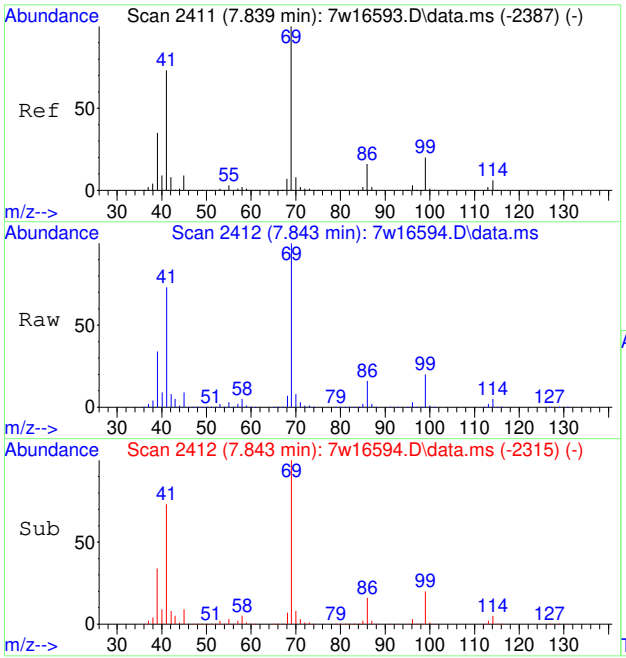


#70
2-HEXANONE
Concen: 55.20 PPBV
RT: 7.704 min Scan# 2369
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 58 Resp: 1106138

Ion	Ratio	Lower	Upper
58	100		
43	165.3	118.6	220.2
100	19.3	13.0	24.2

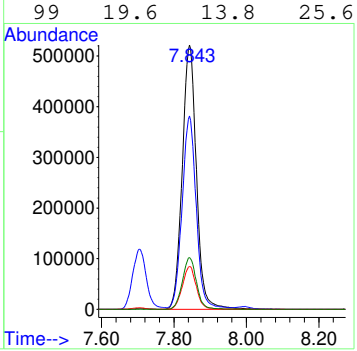


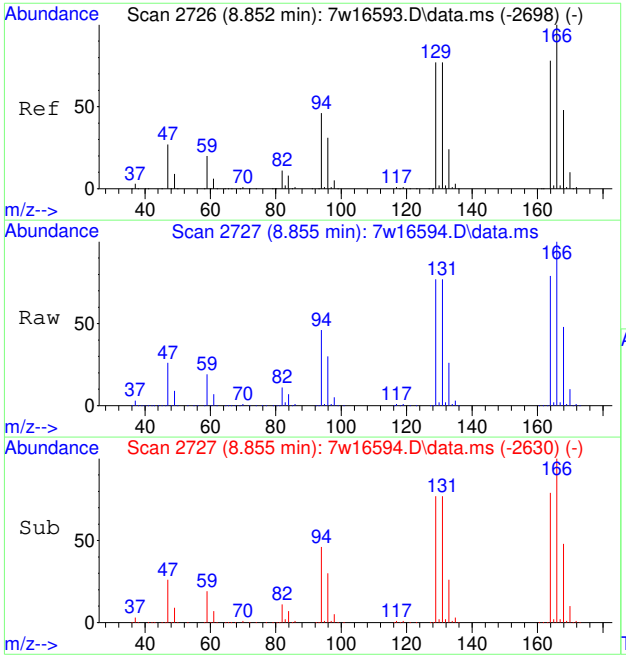


#71
ETHYL METHACRYLATE
Concen: 64.21 PPBV
RT: 7.843 min Scan# 2412
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 69 Resp: 1420765

Ion	Ratio	Lower	Upper
69	100		
41	73.2	53.6	99.6
86	16.3	11.3	20.9
99	19.6	13.8	25.6

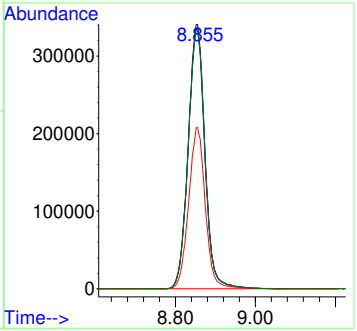


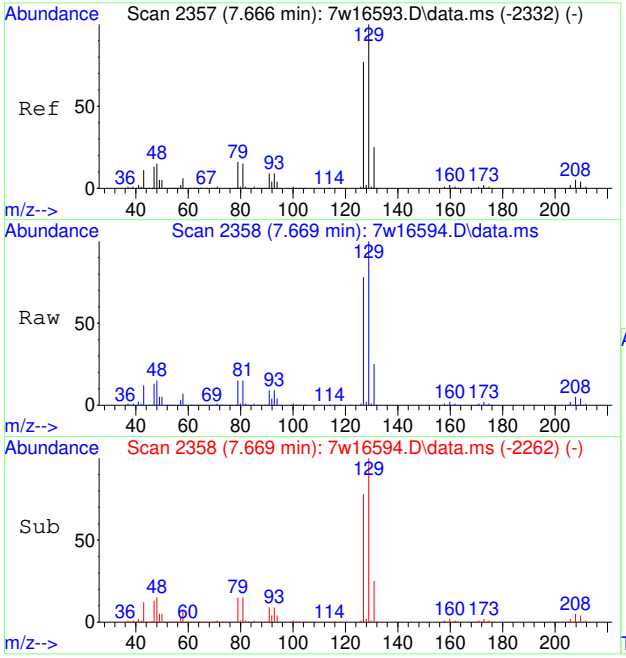


#72
TETRACHLOROETHENE
Concen: 64.80 PPBV
RT: 8.855 min Scan# 2727
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:164 Resp: 995678

Ion	Ratio	Lower	Upper
164	100		
129	98.2	69.6	129.2
168	60.4	42.5	78.9
131	98.4	69.4	129.0

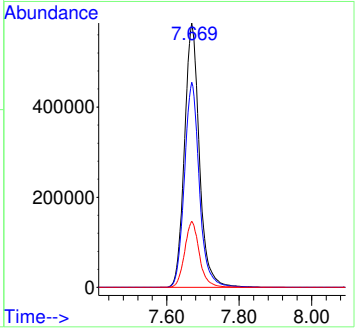


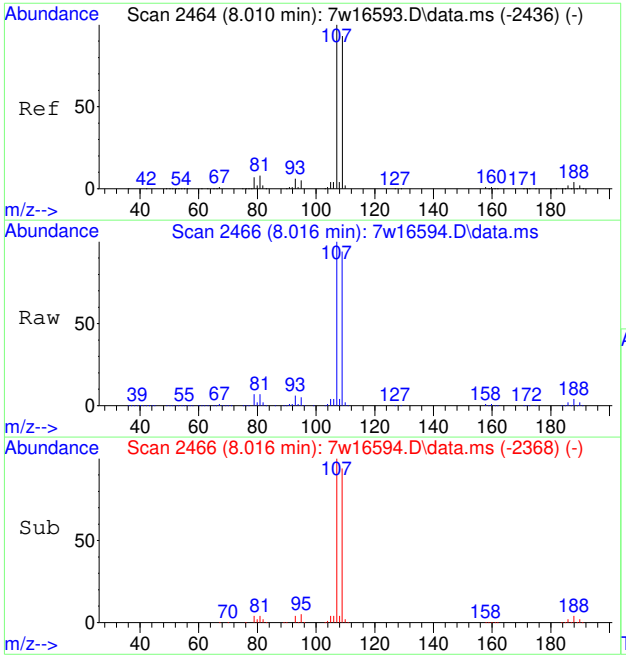


#73
DIBROMOCHLOROMETHANE
Concen: 69.22 PPBV
RT: 7.669 min Scan# 2358
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:129 Resp: 1671777

Ion	Ratio	Lower	Upper
129	100		
127	78.0	54.7	101.7
131	24.9	17.4	32.4

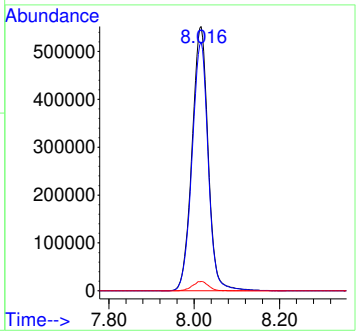


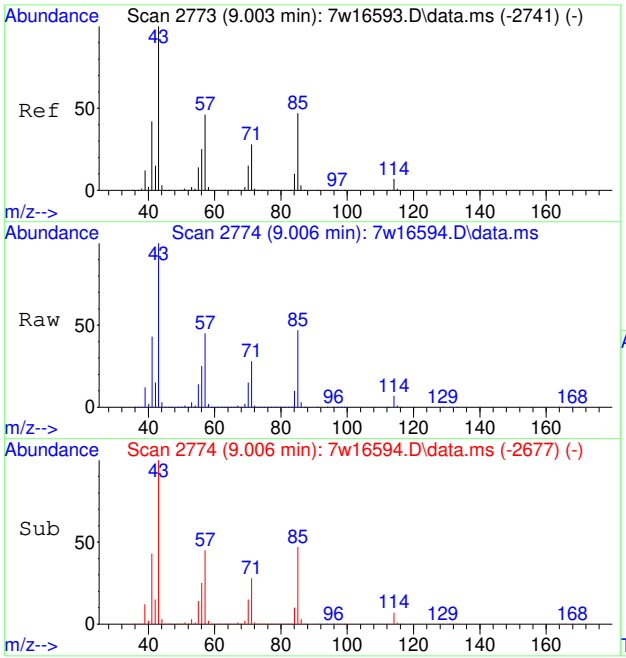


#74
1,2-DIBROMOETHANE
Concen: 66.89 PPBV
RT: 8.016 min Scan# 2466
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:107 Resp: 1452027

Ion	Ratio	Lower	Upper
107	100		
109	94.3	66.1	122.8
188	3.5	2.5	4.6

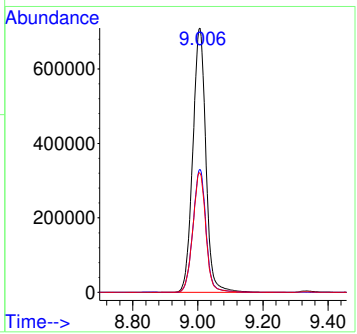


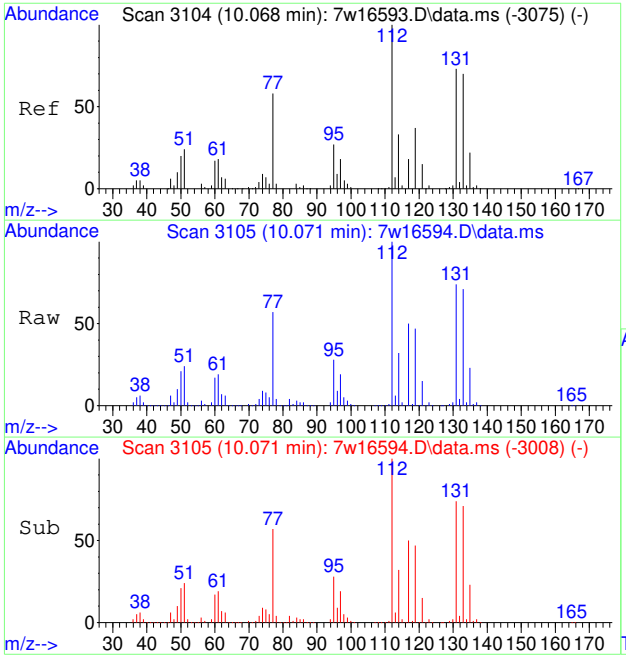


#75
OCTANE
Concen: 62.35 PPBV
RT: 9.006 min Scan# 2774
Delta R.T. 0.012 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 1982903

Ion	Ratio	Lower	Upper
43	100		
85	46.5	31.8	59.0
57	45.3	31.4	58.2

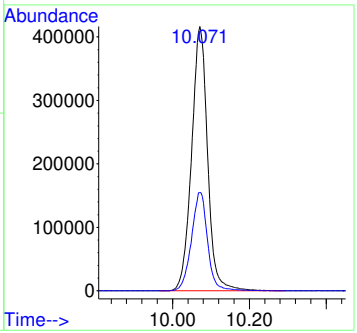


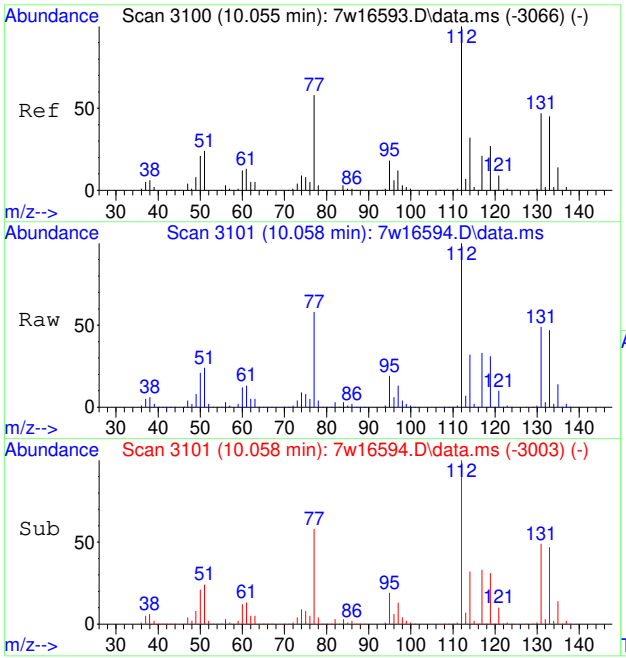


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 69.43 PPBV
RT: 10.071 min Scan# 3105
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:131 Resp: 1205798

Ion	Ratio	Lower	Upper
131	100		
95	37.5	26.5	49.1

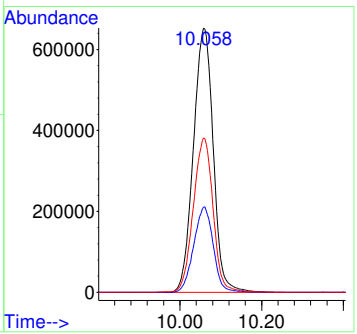


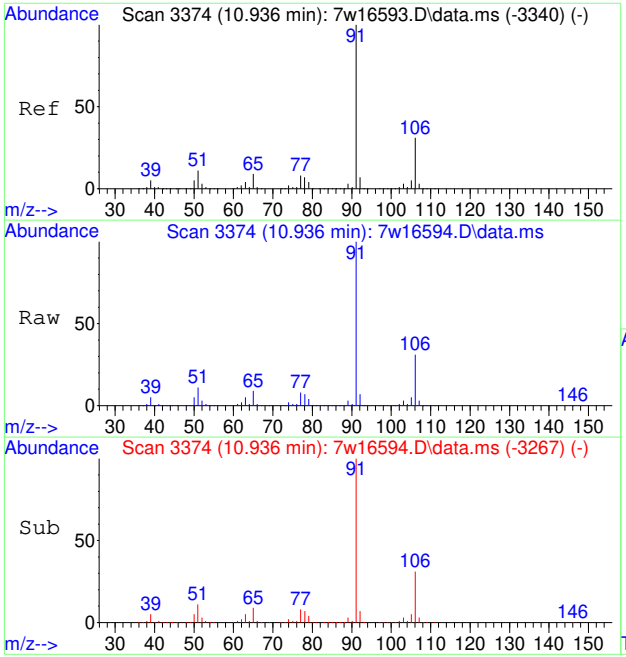


#78
CHLOROBENZENE
Concen: 66.36 PPBV
RT: 10.058 min Scan# 3101
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:112 Resp: 2204542

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.7
77	58.5	42.1	78.1

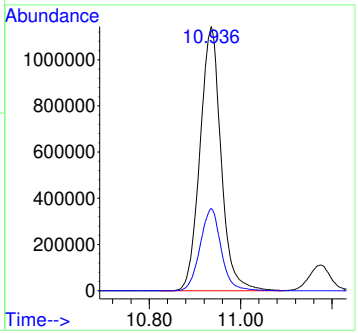


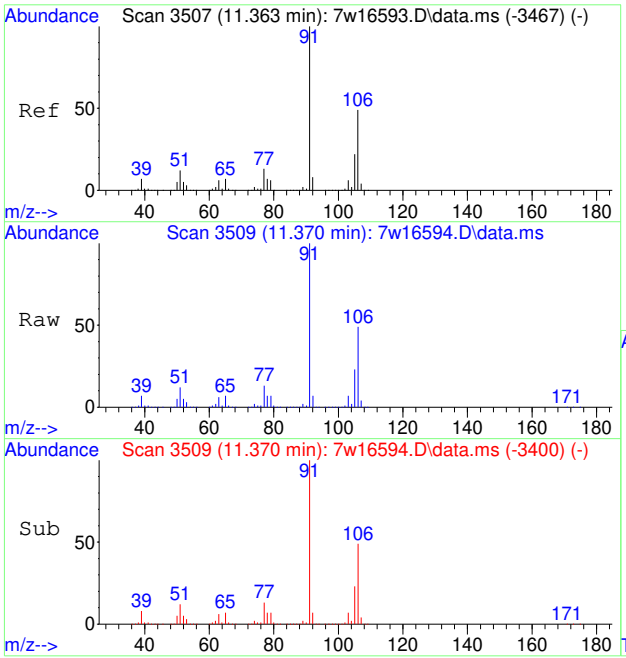


#79
ETHYLBENZENE
Concen: 67.08 PPBV
RT: 10.936 min Scan# 3374
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3650660

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.1	61.1

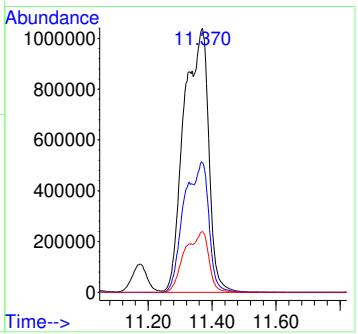


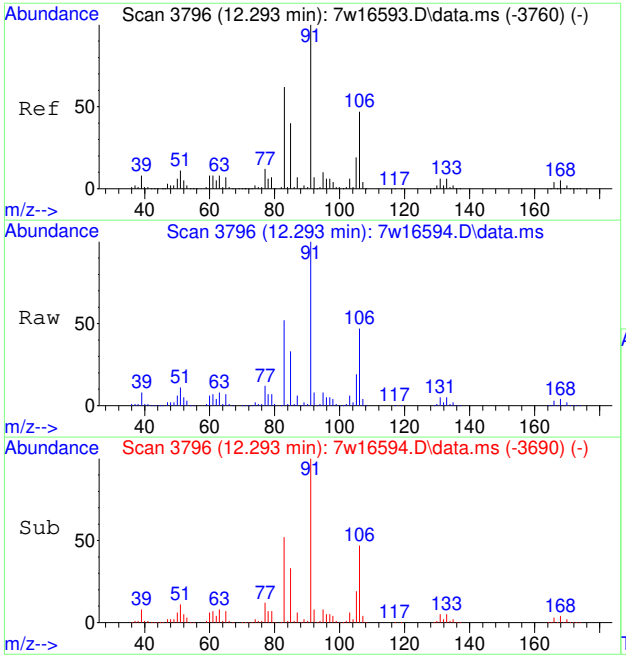


#80
M,P-XYLENE
Concen: 125.67 PPBV
RT: 11.370 min Scan# 3509
Delta R.T. 0.020 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 5556486

Ion	Ratio	Lower	Upper
91	100		
106	49.6	0.0	56.1
105	22.5	0.0	42.1

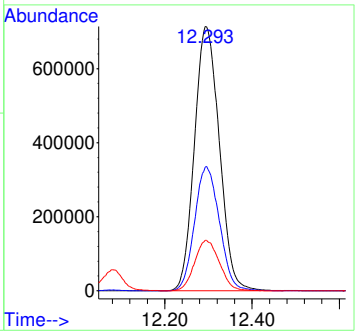


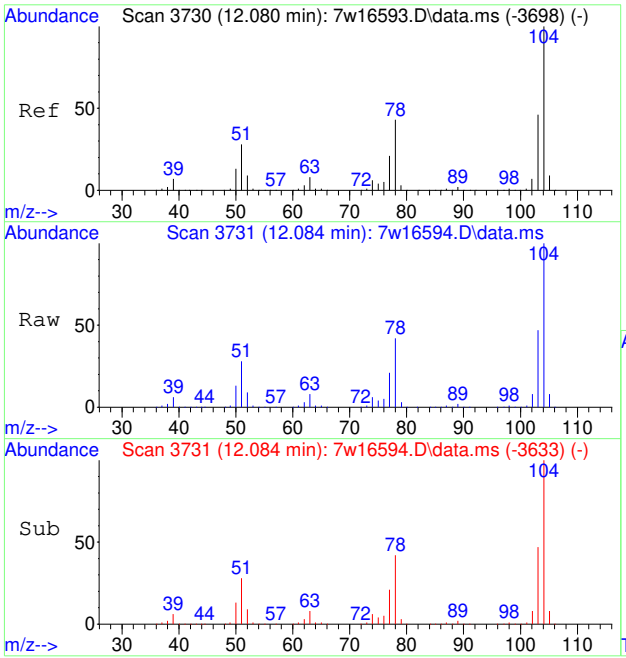


#81
O-XYLENE
Concen: 66.28 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 2839567

Ion	Ratio	Lower	Upper
91	100		
106	46.7	31.8	59.0
105	19.1	13.0	24.2

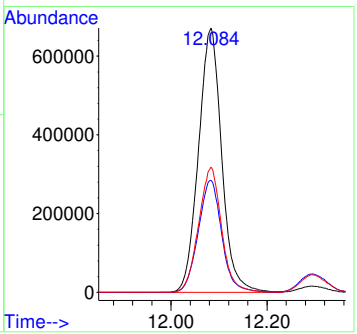


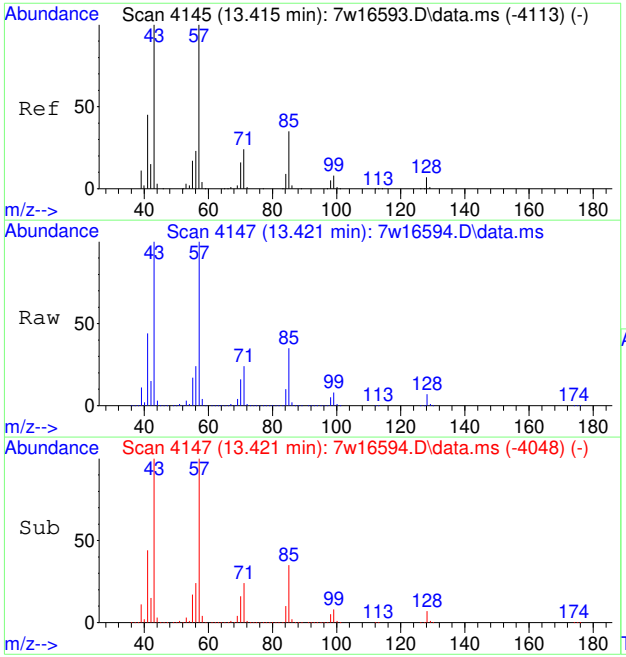


#82
STYRENE
Concen: 70.41 PPBV
RT: 12.084 min Scan# 3731
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:104 Resp: 2245416

Ion	Ratio	Lower	Upper
104	100		
78	43.0	30.6	56.8
103	46.9	32.8	61.0

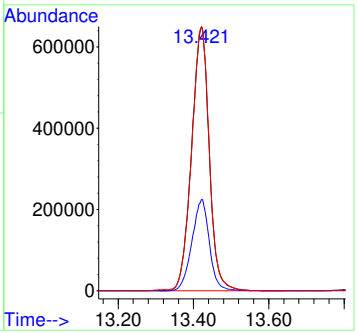


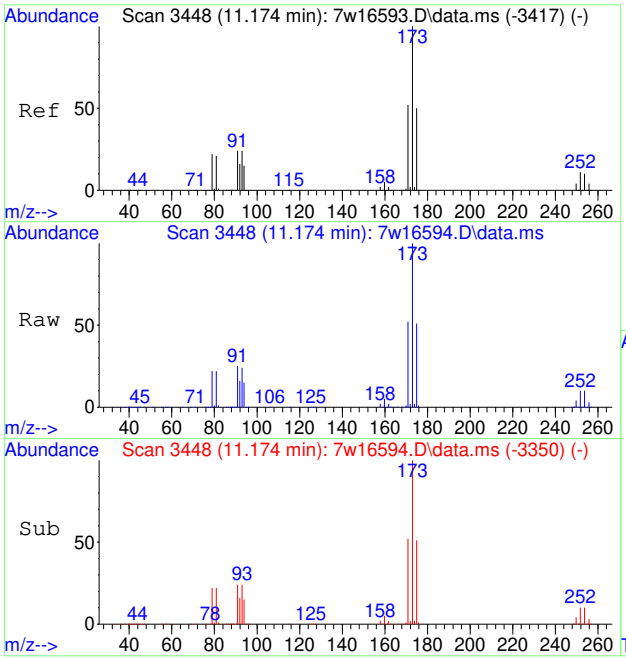


#83
NONANE
Concen: 63.10 PPBV
RT: 13.421 min Scan# 4147
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 43 Resp: 2110946

Ion	Ratio	Lower	Upper
43	100		
85	34.2	23.4	43.4
57	100.8	69.2	128.6

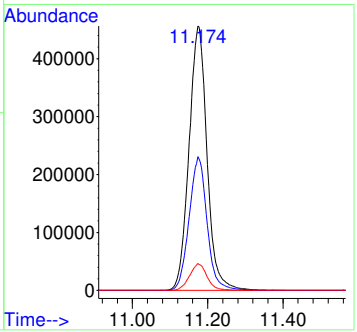


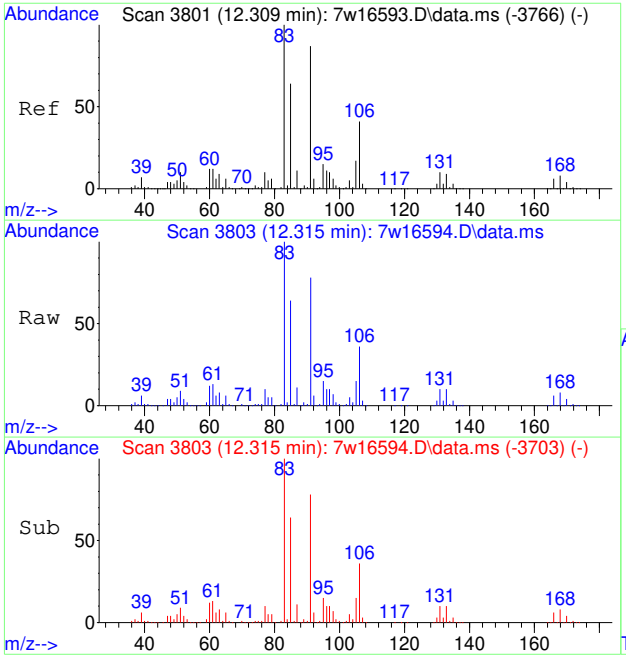


#84
BROMOFORM
Concen: 75.01 PPBV
RT: 11.174 min Scan# 3448
Delta R.T. 0.017 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:173 Resp: 1514711

Ion	Ratio	Lower	Upper
173	100		
175	50.3	35.1	65.1
254	9.9	6.7	12.5

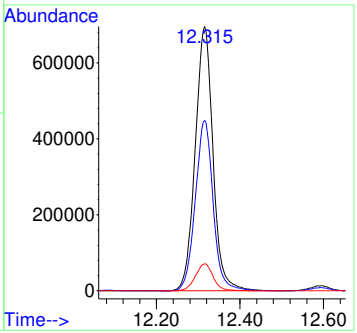


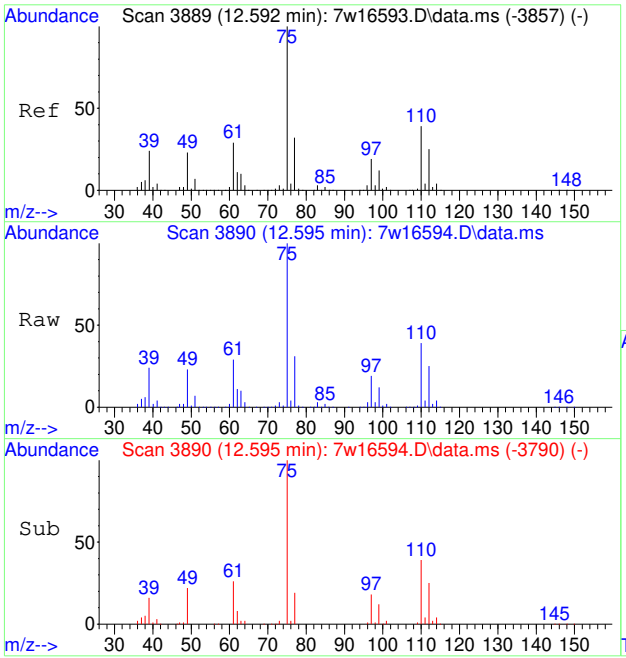


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 67.37 PPBV
RT: 12.315 min Scan# 3803
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 83 Resp: 2064226

Ion	Ratio	Lower	Upper
83	100		
85	64.6	45.5	84.5
131	10.3	7.3	13.5

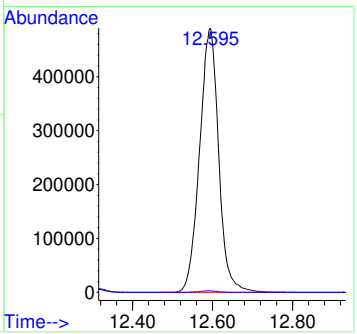


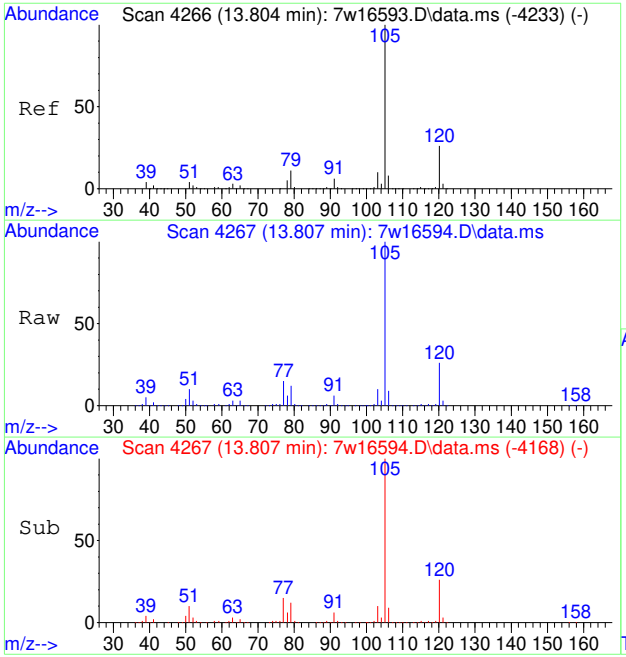


#86
1,2,3-TRICHLOROPROPANE
Concen: 67.69 PPBV
RT: 12.595 min Scan# 3890
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 75 Resp: 1624746

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

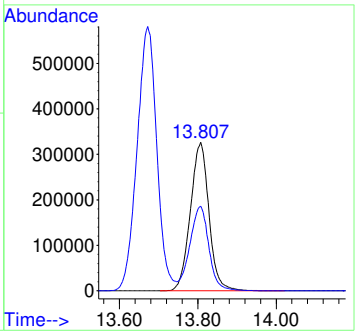


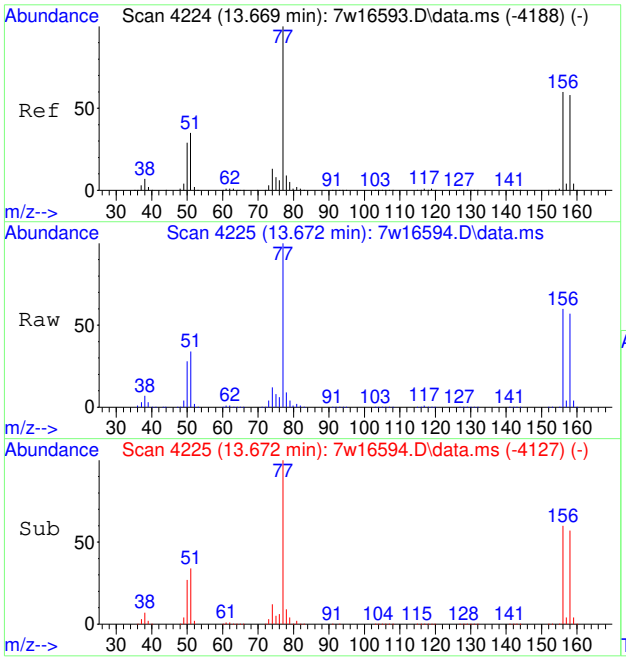


#88
ISOPROPYLBENZENE
Concen: 65.98 PPBV
RT: 13.807 min Scan# 4267
Delta R.T. 0.019 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1073063

Ion	Ratio	Lower	Upper
120	100		
77	58.2	42.5	78.9

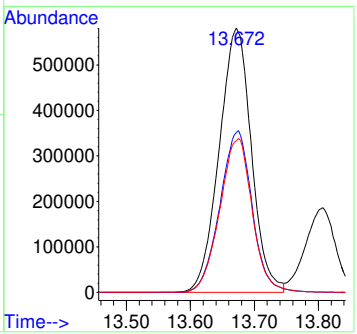


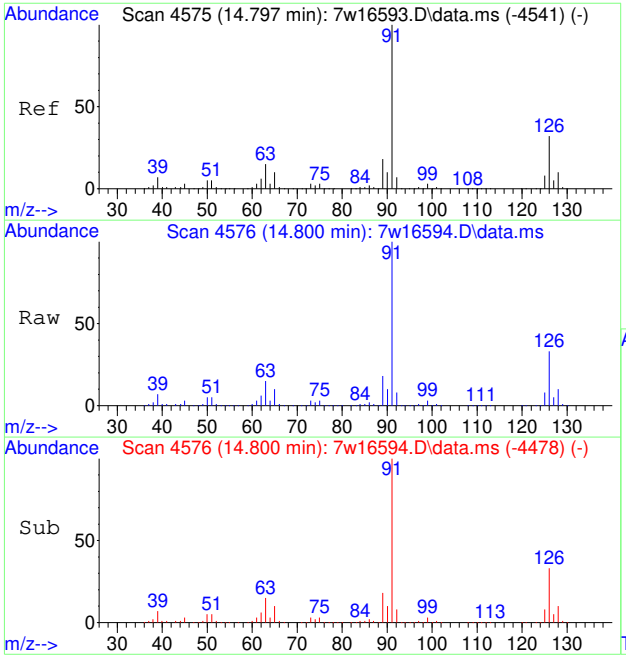


#89
BROMOBENZENE
Concen: 65.06 PPBV
RT: 13.672 min Scan# 4225
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 77 Resp: 2035109

Ion	Ratio	Lower	Upper
77	100		
156	61.2	42.4	78.8
158	58.7	40.9	76.0

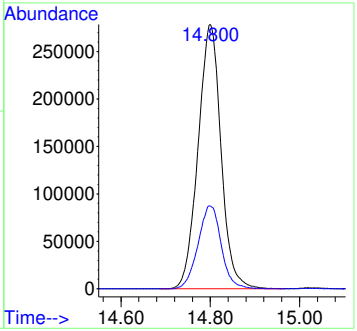


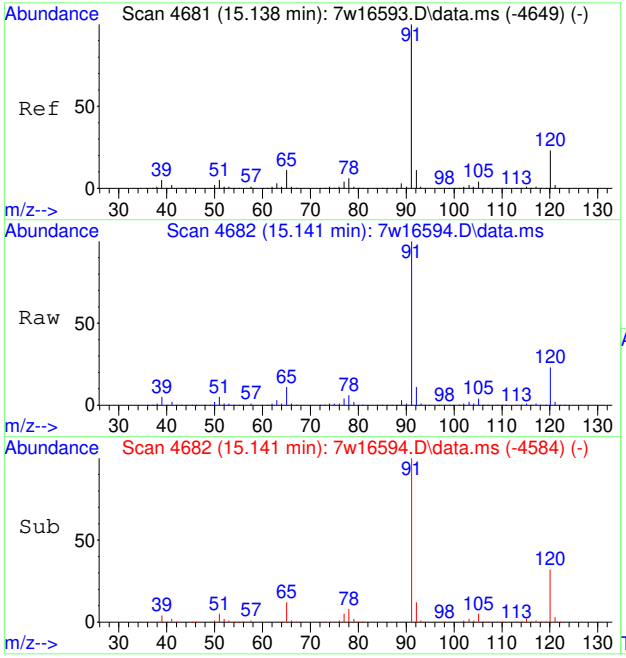


#90
2-CHLOROTOLUENE
Concen: 65.73 PPBV
RT: 14.800 min Scan# 4576
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:126 Resp: 993540

Ion	Ratio	Lower	Upper
126	100		
128	31.8	22.5	41.7

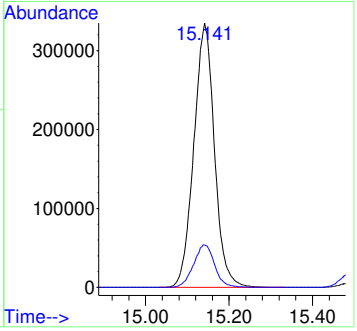


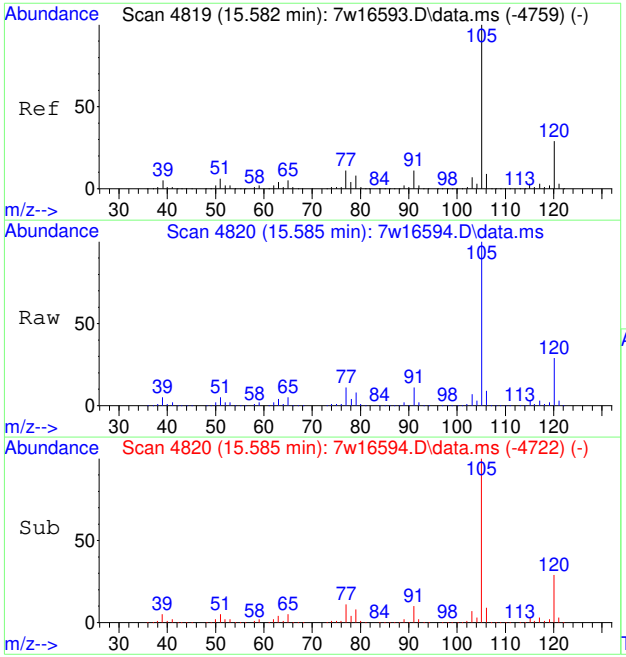


#91
N-PROPYLBENZENE
Concen: 66.71 PPBV
RT: 15.141 min Scan# 4682
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:120 Resp: 1146895

Ion	Ratio	Lower	Upper
120	100		
105	16.5	11.5	21.5

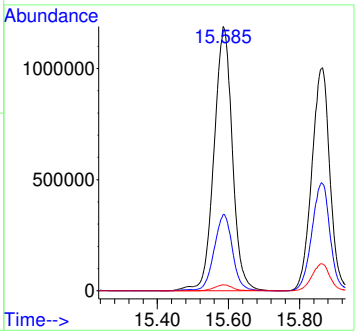


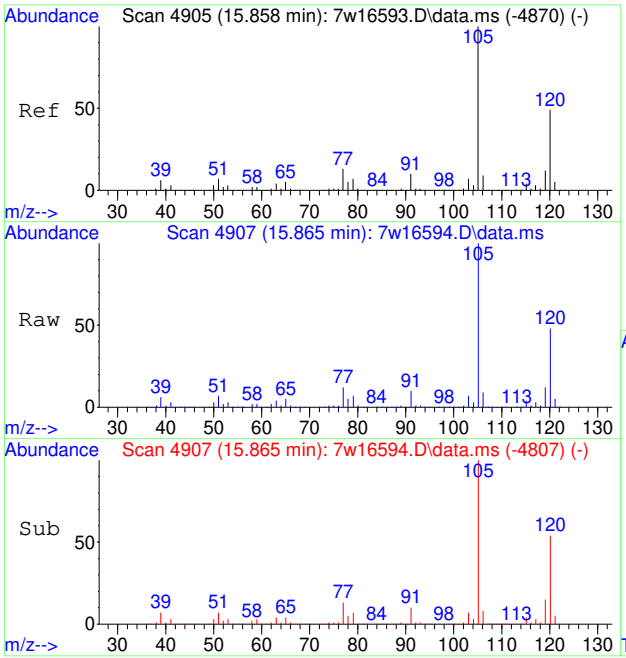


#92
4-ETHYLTOLUENE
Concen: 66.89 PPBV
RT: 15.585 min Scan# 4820
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 4258764

Ion	Ratio	Lower	Upper
105	100		
120	29.1	20.7	38.5
119	2.2	1.6	3.0

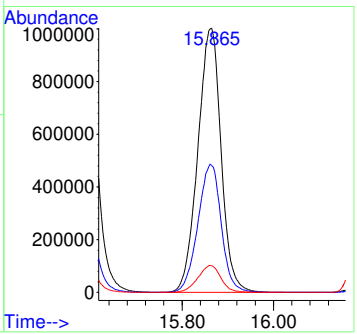


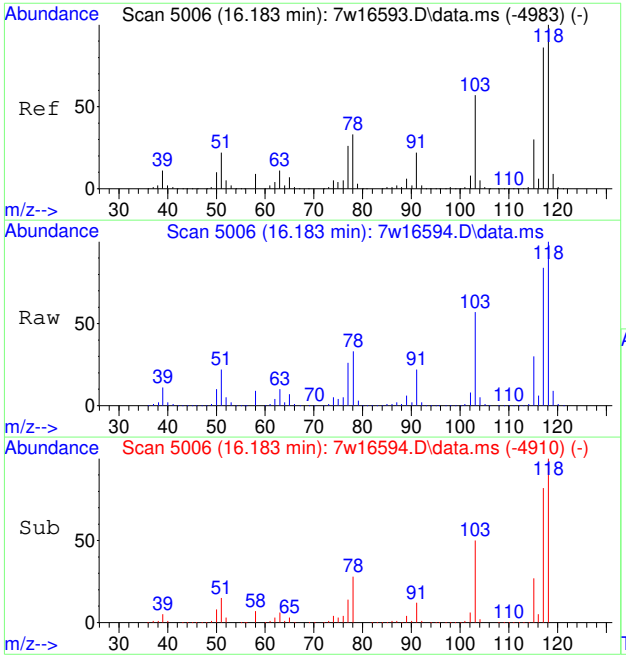


#93
1,3,5-TRIMETHYLBENZENE
Concen: 66.72 PPBV
RT: 15.865 min Scan# 4907
Delta R.T. 0.023 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3539586

Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.0	63.2
91	10.2	7.3	13.7

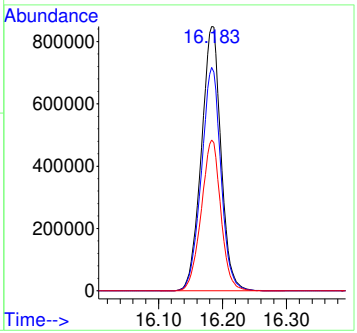


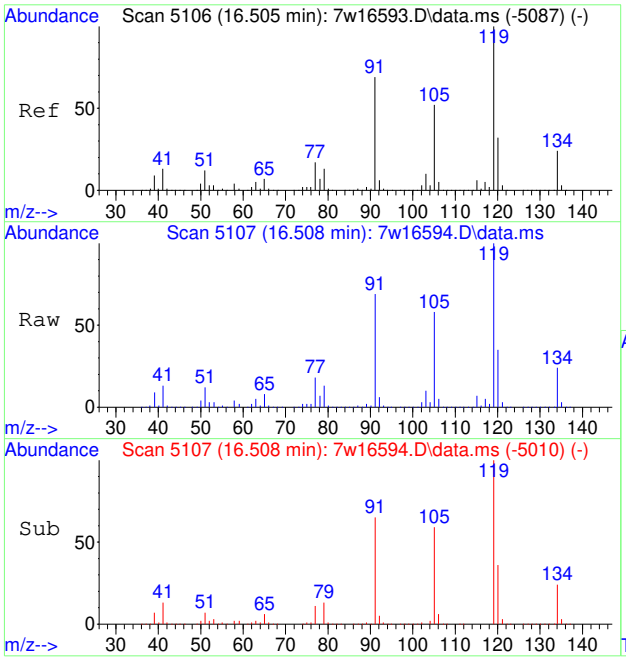


#94
ALPHA-METHYLSTYRENE
Concen: 68.96 PPBV
RT: 16.183 min Scan# 5006
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:118 Resp: 1802748

Ion	Ratio	Lower	Upper
118	100		
117	84.5	59.6	110.8
103	56.9	40.3	74.9

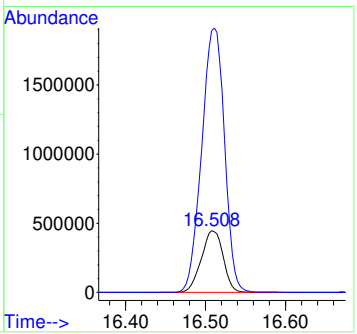


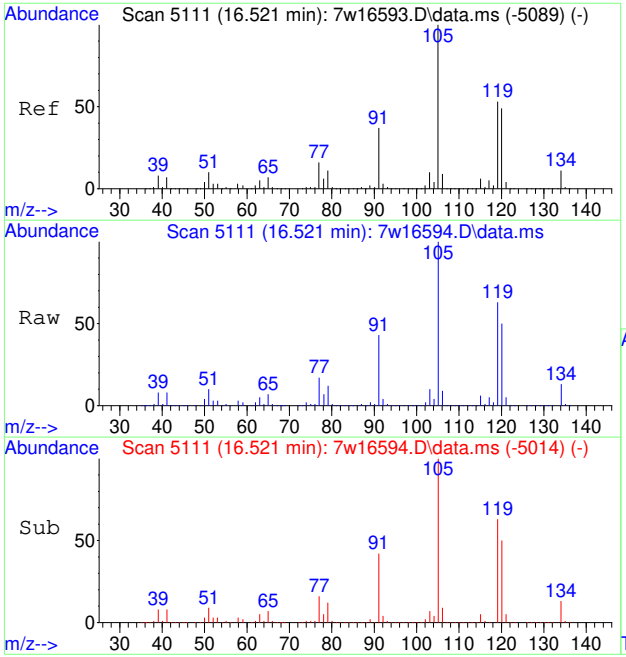


#95
TERT-BUTYLBENZENE
Concen: 65.41 PPBV
RT: 16.508 min Scan# 5107
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 849405

Ion	Ratio	Lower	Upper
134	100		
119	445.9	311.3	578.1

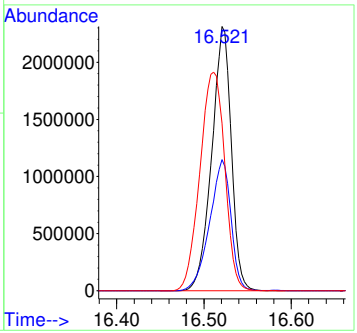


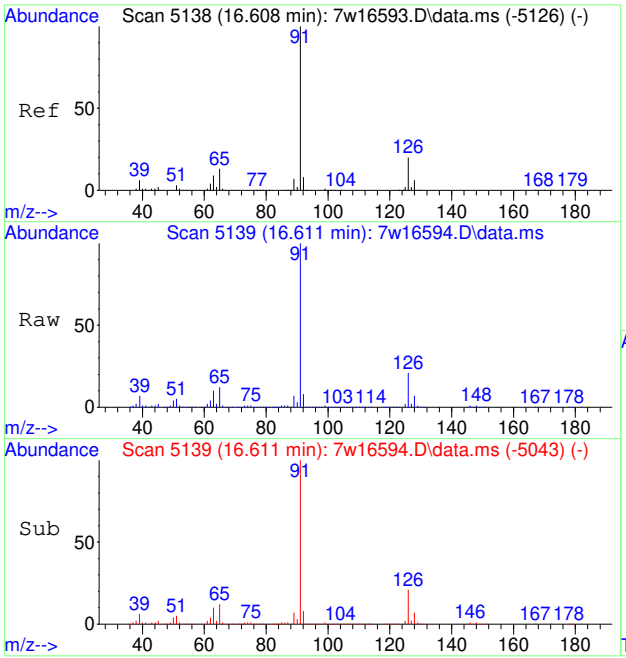


#96
1,2,4-TRIMETHYLBENZENE
Concen: 68.48 PPBV
RT: 16.521 min Scan# 5111
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3598939

Ion	Ratio	Lower	Upper
105	100		
120	54.1	37.9	70.5
119	105.2	74.3	137.9

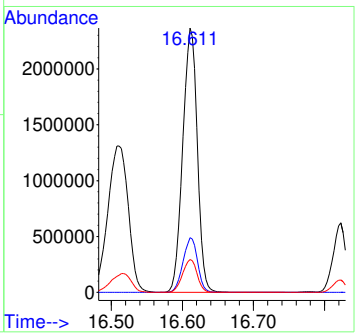


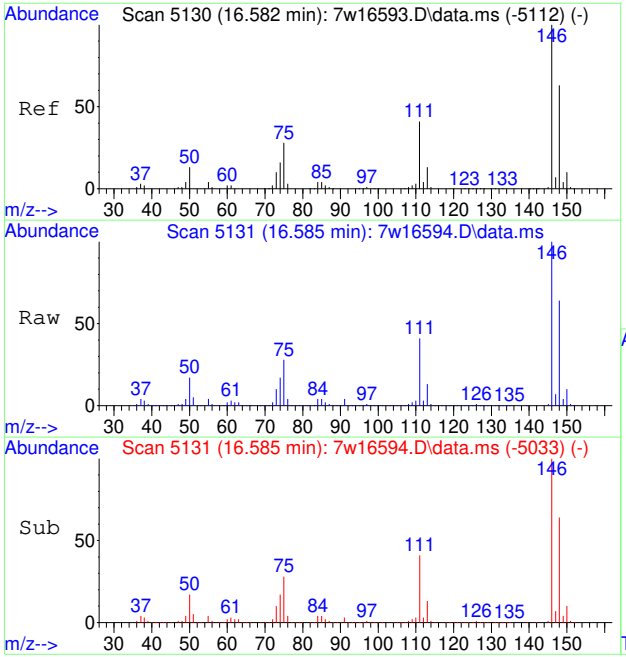


#97
BENZYL CHLORIDE
Concen: 81.19 PPBV
RT: 16.611 min Scan# 5139
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion: 91 Resp: 3366305

Ion	Ratio	Lower	Upper
91	100		
126	20.6	14.3	26.5
65	12.5	9.2	17.0

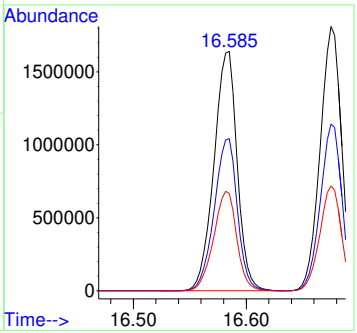


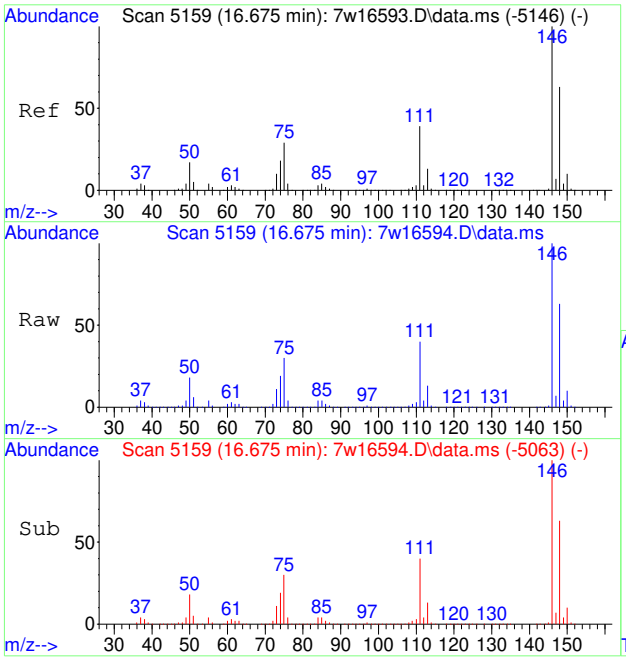


#98
M-DICHLOROBENZENE
Concen: 64.53 PPBV
RT: 16.585 min Scan# 5131
Delta R.T. 0.016 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2335430

Ion	Ratio	Lower	Upper
146	100		
148	63.4	44.6	82.8
111	41.4	29.3	54.3

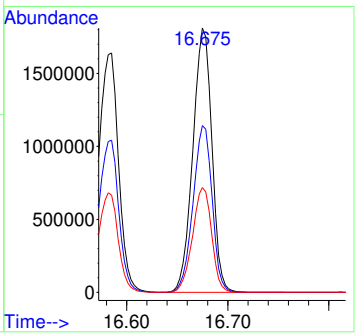


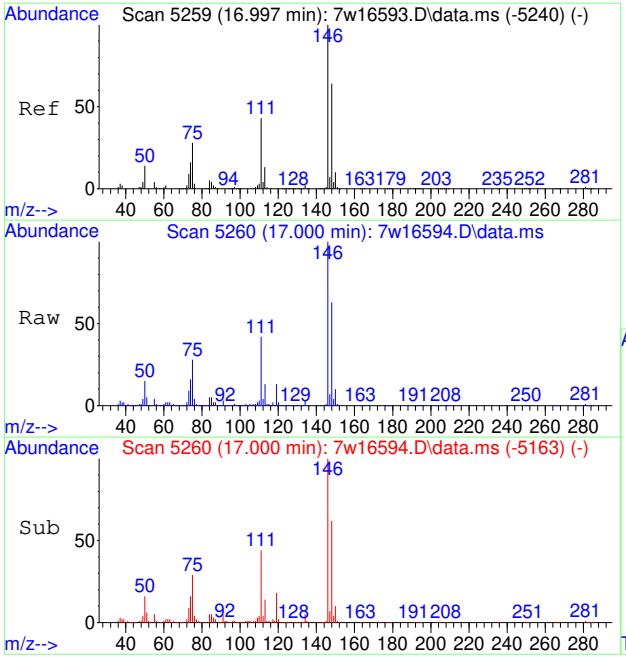


#99
P-DICHLOROBENZENE
Concen: 66.58 PPBV
RT: 16.675 min Scan# 5159
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2373563

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	39.9	28.0	52.0

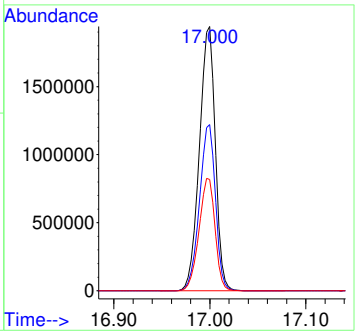


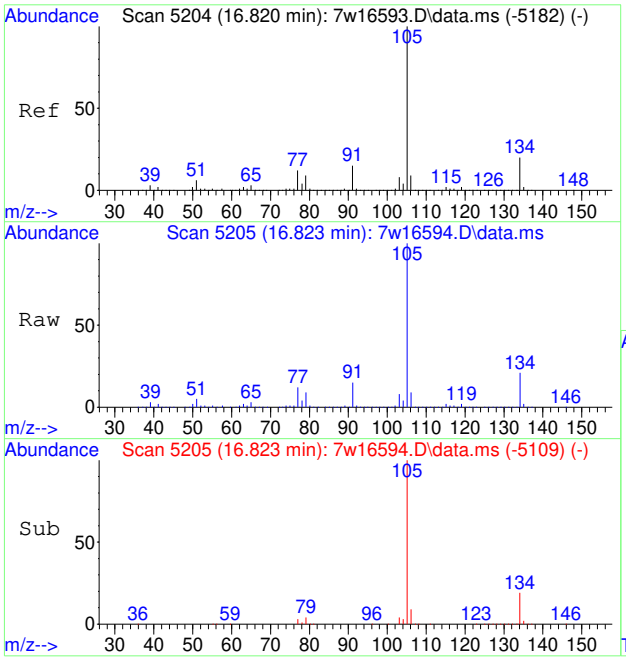


#100
O-DICHLOROBENZENE
Concen: 66.71 PPBV
RT: 17.000 min Scan# 5260
Delta R.T. 0.013 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:146 Resp: 2236033

Ion	Ratio	Lower	Upper
146	100		
148	63.1	44.2	82.2
111	43.0	30.4	56.4

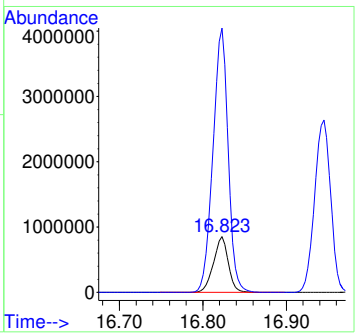


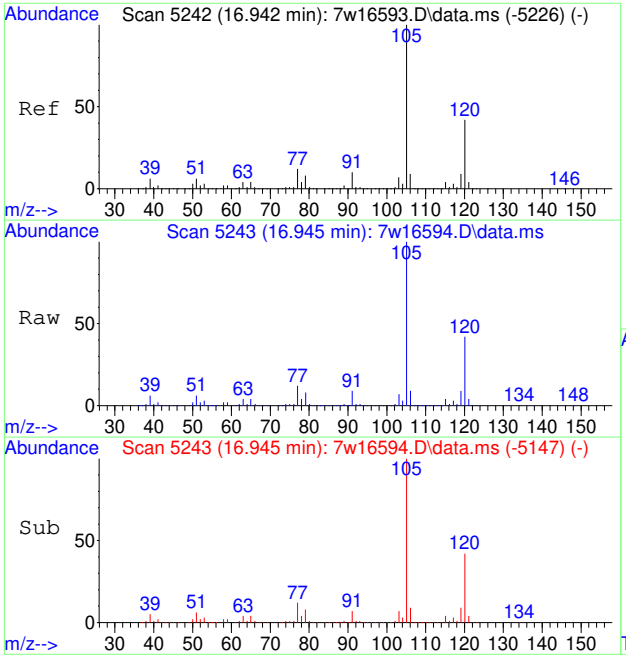


#101
SEC-BUTYLBENZENE
Concen: 67.84 PPBV
RT: 16.823 min Scan# 5205
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1046061

Ion	Ratio	Lower	Upper
134	100		
105	488.3	344.8	640.3

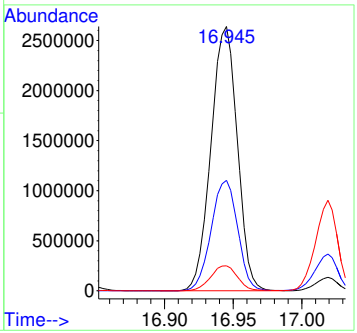


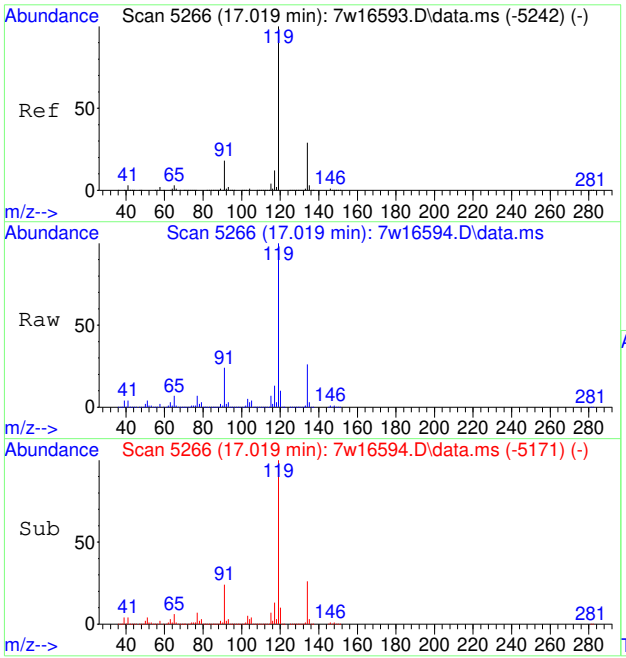


#102
1,2,3-TRIMETHYLBENZENE
Concen: 66.96 PPBV
RT: 16.945 min Scan# 5243
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:105 Resp: 3529094

Ion	Ratio	Lower	Upper
105	100		
120	42.1	29.3	54.3
91	9.7	7.0	13.0

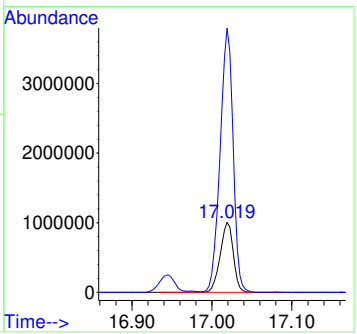


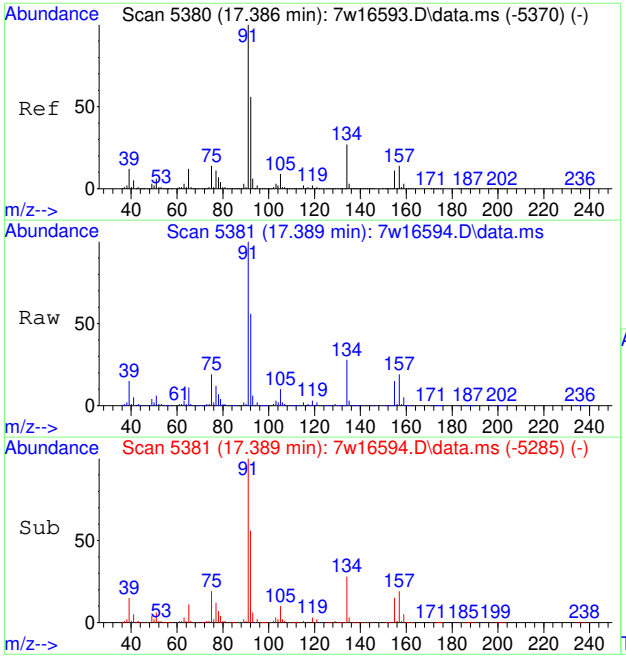


#103
P-ISOPROPYLTOLUENE
Concen: 66.86 PPBV
RT: 17.019 min Scan# 5266
Delta R.T. 0.006 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1145439

Ion	Ratio	Lower	Upper
134	100		
119	373.3	261.4	485.4

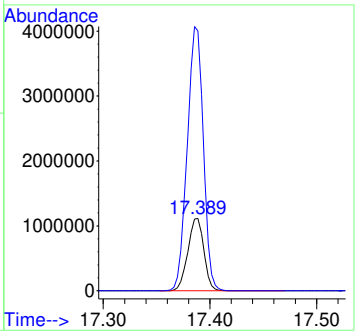


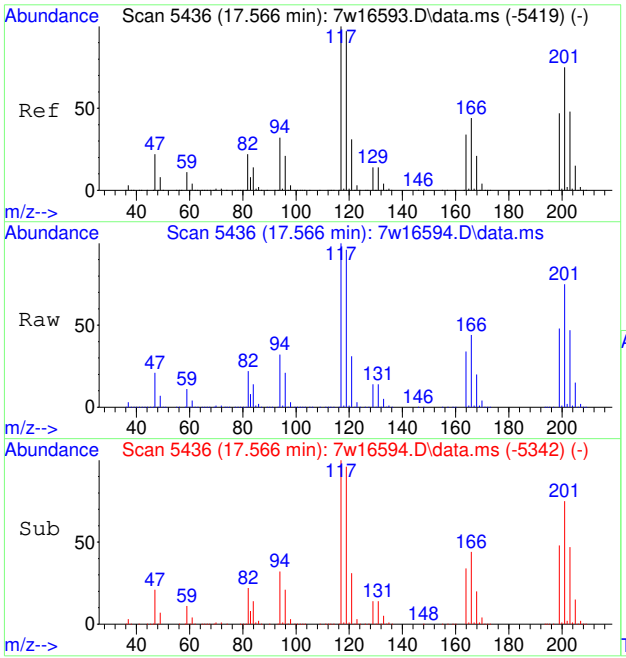


#104
N-BUTYLBENZENE
Concen: 71.38 PPBV
RT: 17.389 min Scan# 5381
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:134 Resp: 1159070

Ion	Ratio	Lower	Upper
134	100		
91	367.1	261.0	484.8

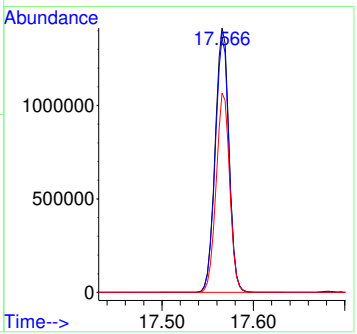


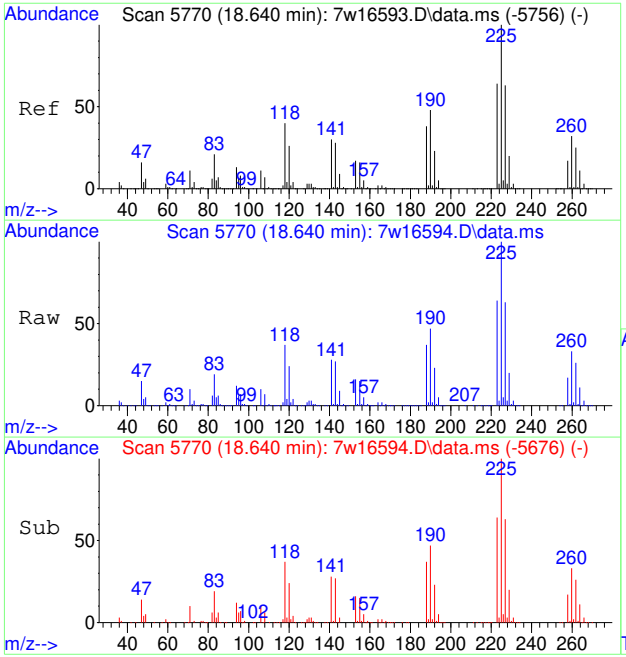


#105
HEXACHLOROETHANE
Concen: 74.98 PPBV
RT: 17.566 min Scan# 5436
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:117 Resp: 1491790

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	74.0	49.8	92.6

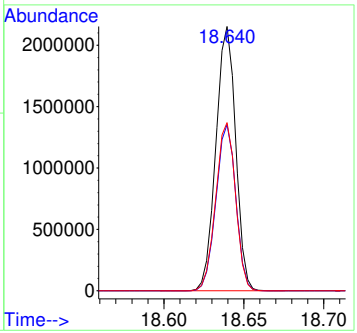


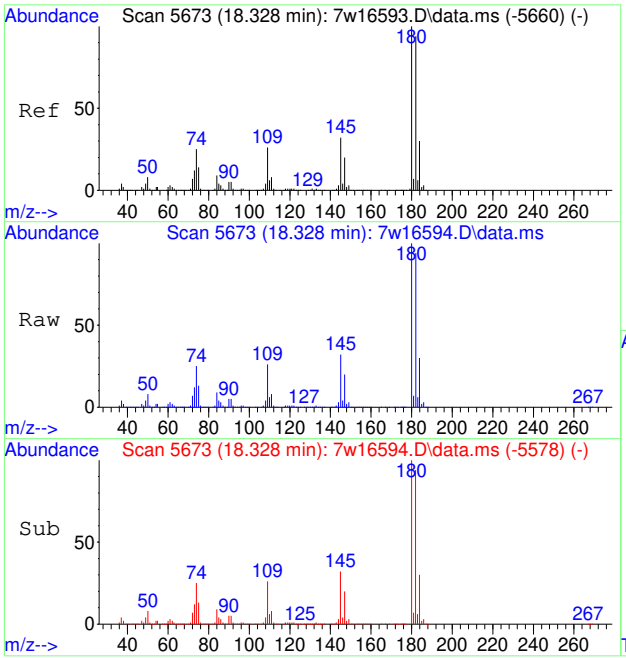


#106
HEXACHLOROBUTADIENE
Concen: 78.27 PPBV
RT: 18.640 min Scan# 5770
Delta R.T. 0.004 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:225 Resp: 1851997

Ion	Ratio	Lower	Upper
225	100		
227	62.9	44.6	82.8
223	63.8	44.6	82.8

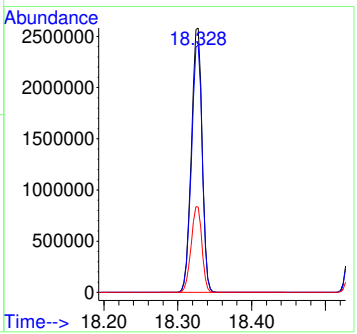


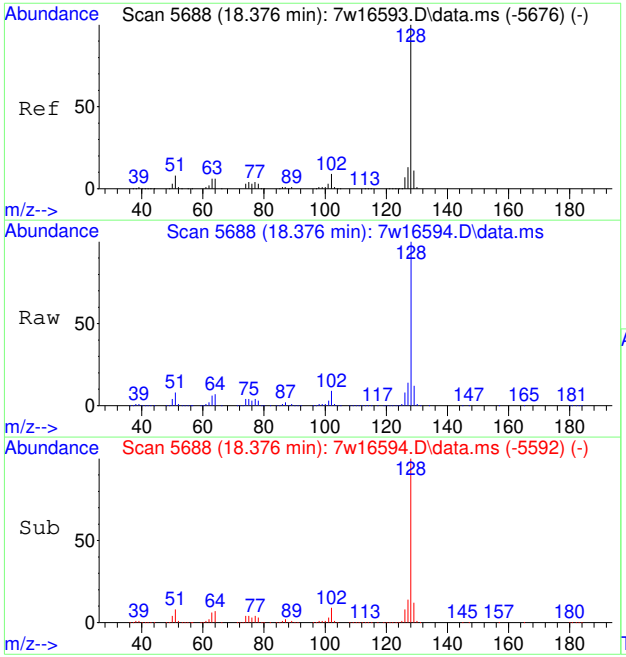


#107
1,2,4-TRICHLOROBENZENE
Concen: 93.58 PPBV
RT: 18.328 min Scan# 5673
Delta R.T. 0.007 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:180 Resp: 2599589

Ion	Ratio	Lower	Upper
180	100		
182	94.0	66.6	123.6
145	32.6	22.5	41.9

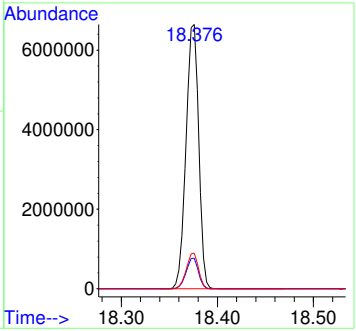


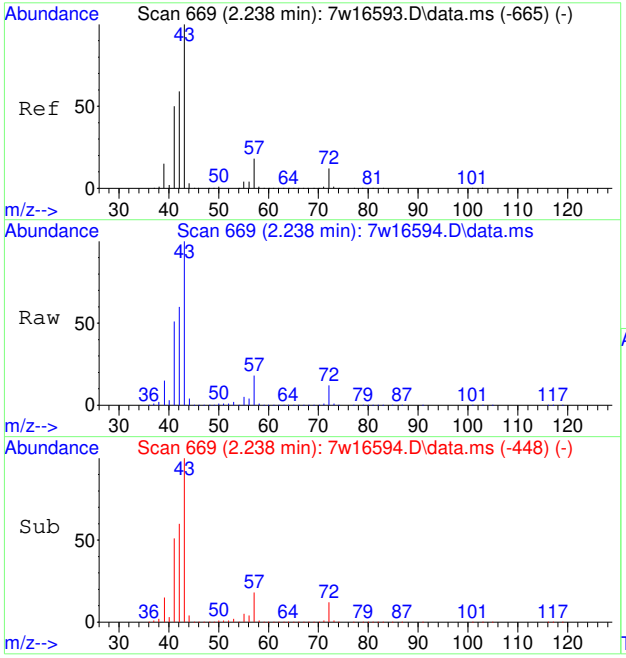


#108
NAPHTHALENE
Concen: 98.65 PPBV
RT: 18.376 min Scan# 5688
Delta R.T. 0.010 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:128 Resp: 6111699

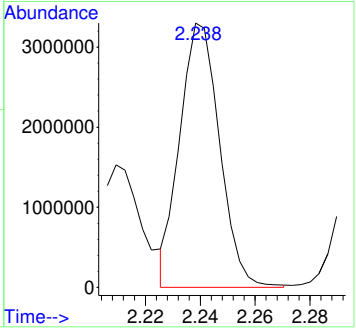
Ion	Ratio	Lower	Upper
128	100		
129	11.3	7.5	13.9
127	13.1	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 53.84 PPBV
RT: 2.238 min Scan# 669
Delta R.T. 0.000 min
Lab File: 7w16594.D
Acq: 7 Aug 2025 4:02 pm

Tgt Ion:TIC Resp: 3312203



Manual Integration Approval Summary

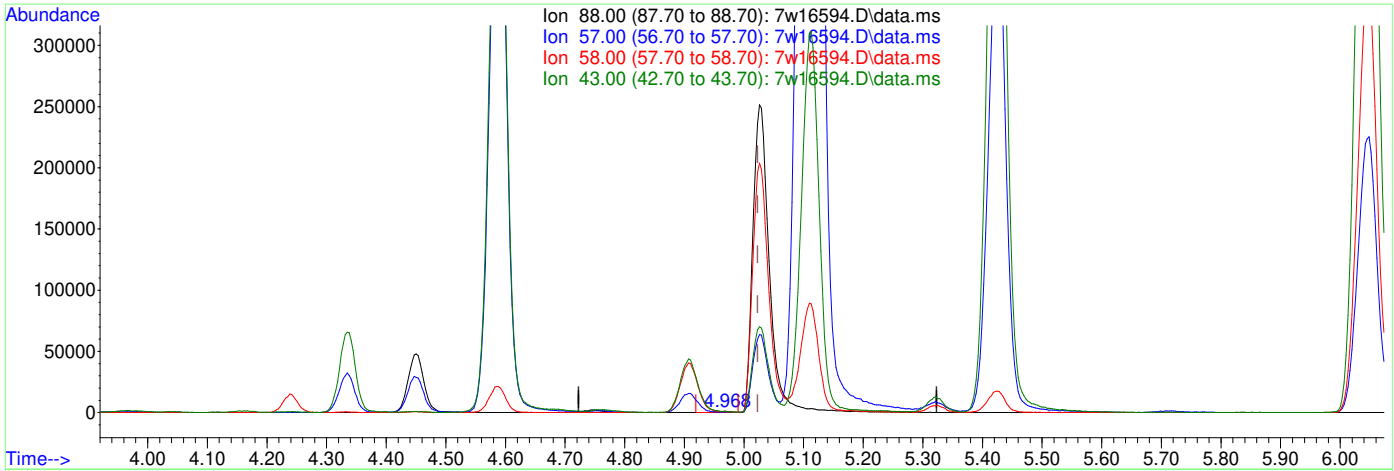
Sample Number: V7W577-IC577
Lab FileID: 7W16594.D
Injection Time: 08/07/25 16:02
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

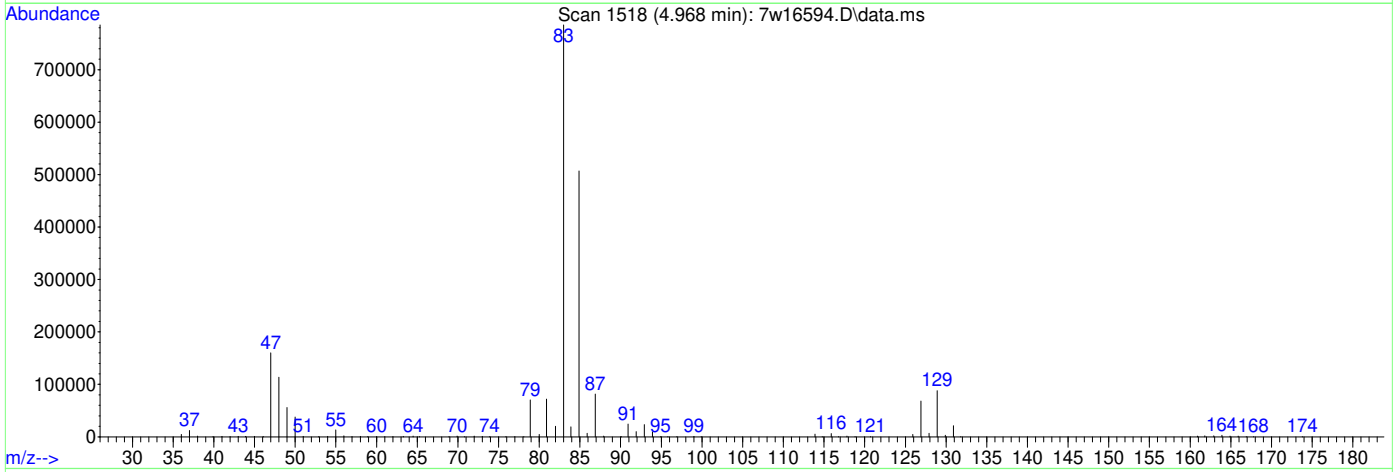
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
1,4-Dioxane	123-91-1		5.03	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

4.968min (-0.055) 0.23PPBV

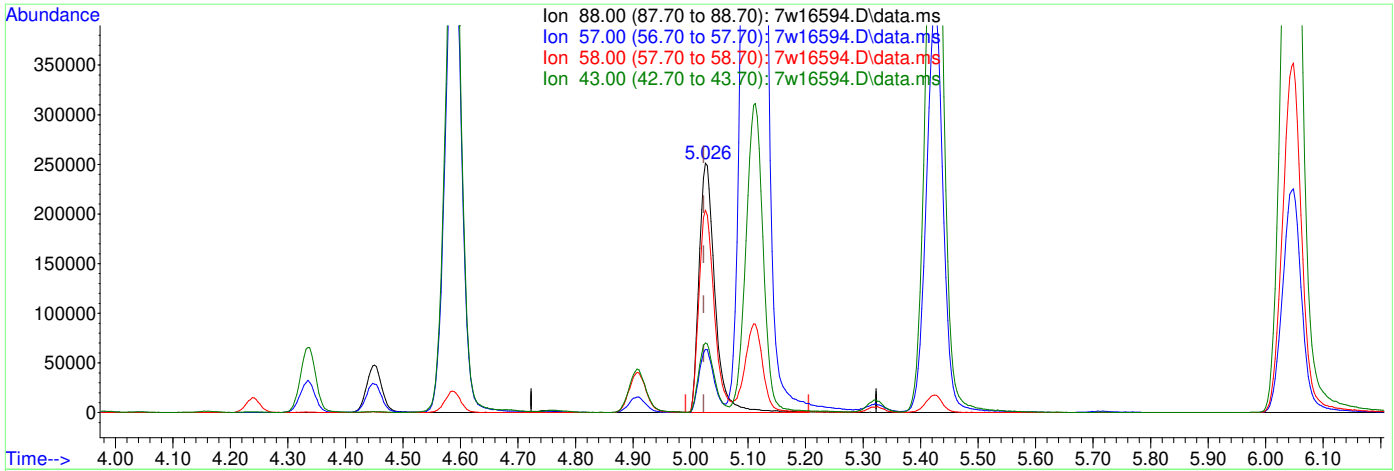
response 1814

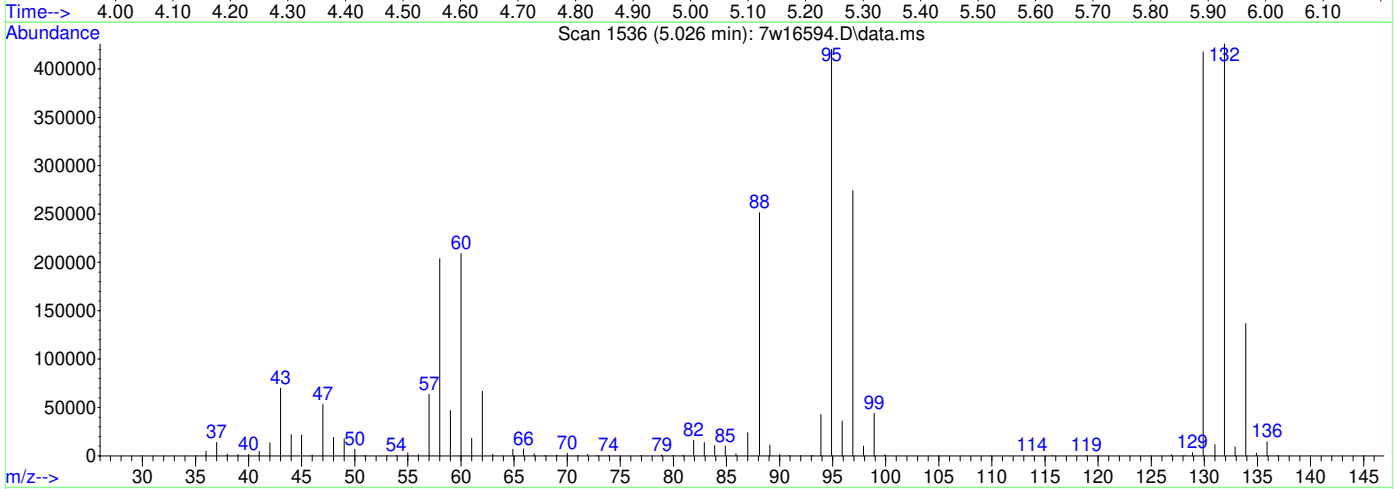
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ib
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:51:31 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(61) 1,4-DIOXANE (T)

5.026min (+0.003) 61.98PPBV m

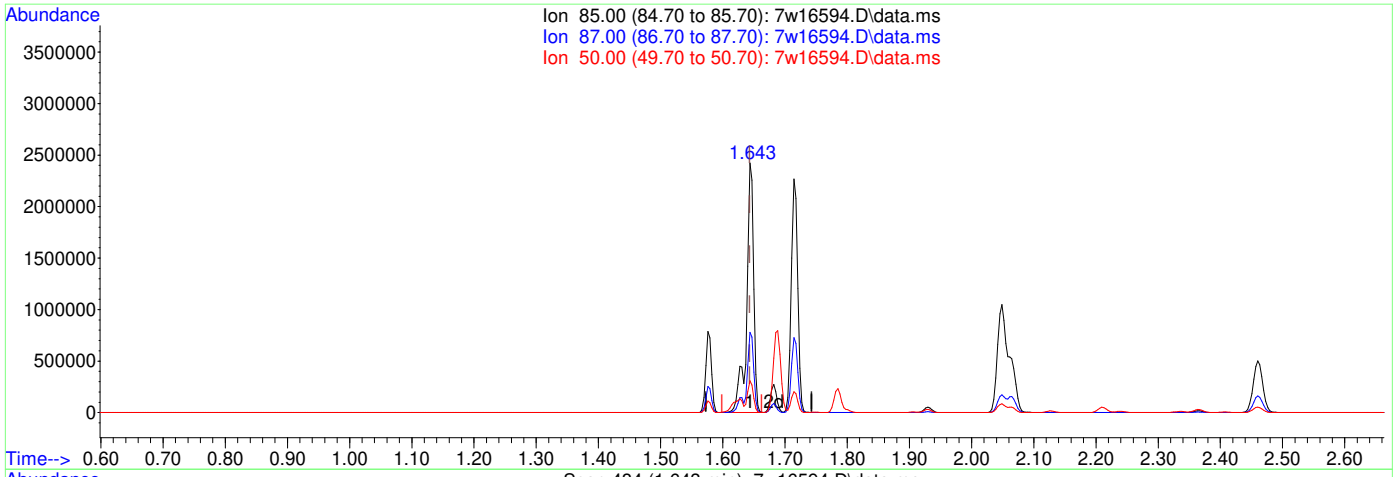
response 483214

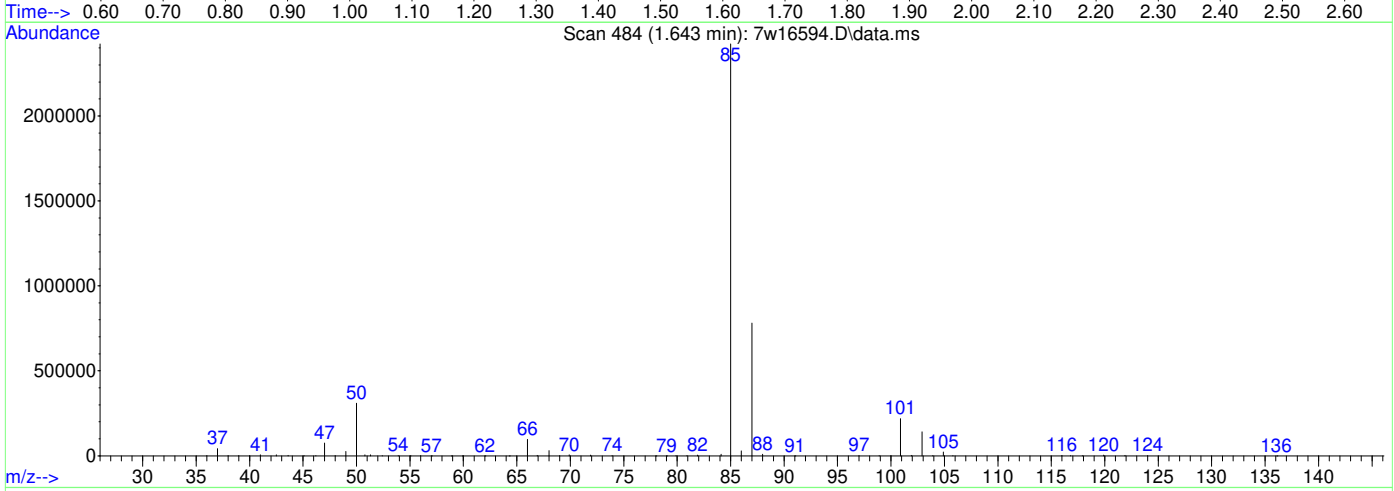
Ion	Exp%	Act%
88.00	100	100
57.00	23.80	0.00#
58.00	74.90	0.00#
43.00	26.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration





TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 62.42PPBV

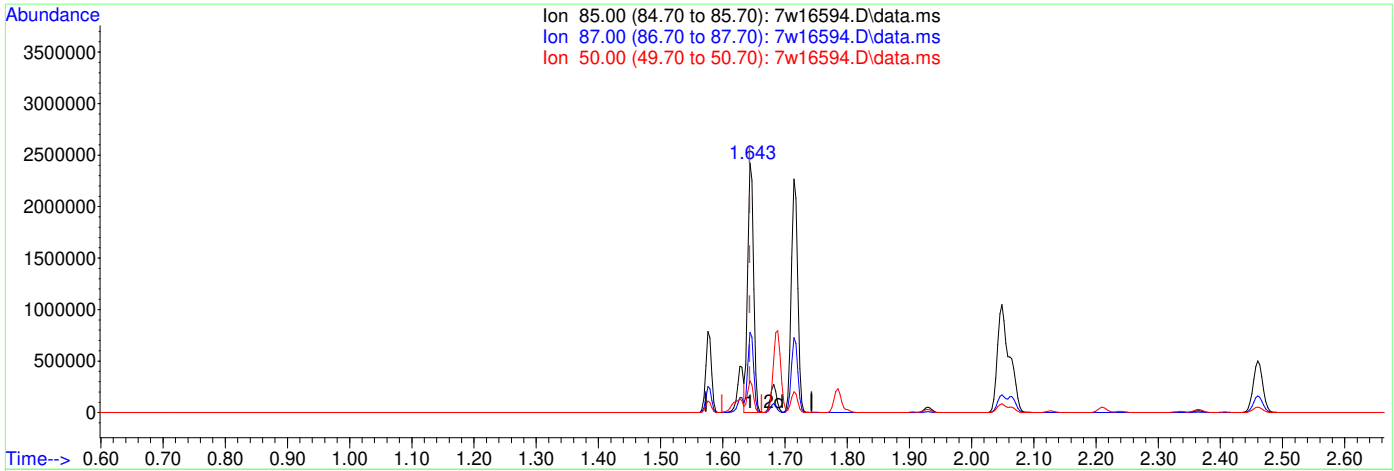
response 1902131

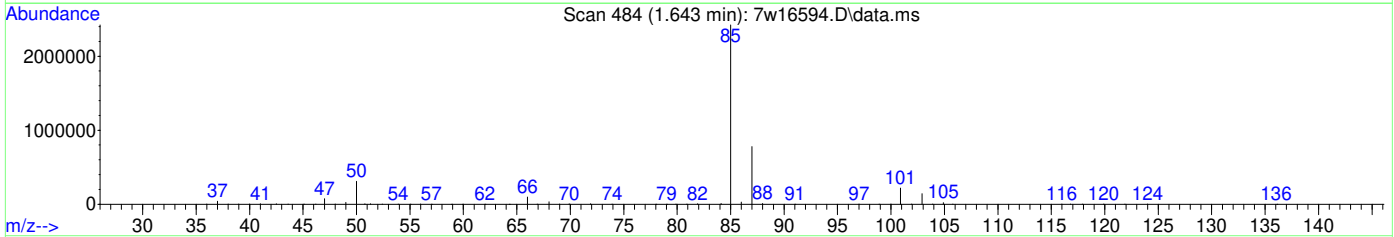
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.33
50.00	19.30	18.58
0.00	0.00	0.00

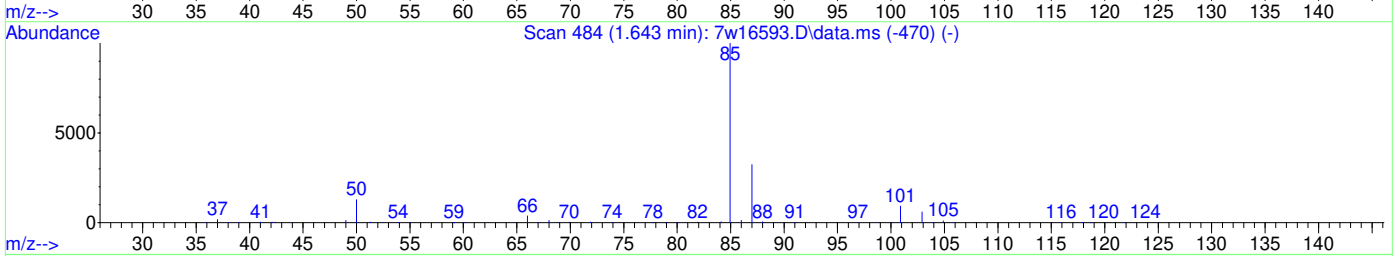
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16594.D
Acq On : 7 Aug 2025 4:02 pm
Operator : benk
Sample : ic577-60
Misc : MS93209,v7w577,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 16:52:36 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 07 16:51:05 2025
Response via : Initial Calibration







TIC: 7w16594.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 52.05PPBV m

response 1586079

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	22.28
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/25 18:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	108383	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	546930	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	500783	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	108383	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	408741	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	140448	10.68	PPBV		100
3) FREON 152A	1.608	65	69502	10.25	PPBV		99
4) CHLORODIFLUOROMETHANE	1.618	67	32765	11.13	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.631	116	152723	10.78	PPBV		94
6) DICHLORODIFLUOROMETHANE	1.647	85	300519m	11.58	PPBV		
7) PROPYLENE	1.628	41	90576	10.32	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	252062	10.91	PPBV		100
9) FREON 114	1.718	85	303615	11.35	PPBV		100
10) CHLOROMETHANE	1.689	52	40254	10.81	PPBV		98
11) VINYL CHLORIDE	1.750	62	140045	10.62	PPBV		99
12) 1,3-BUTADIENE	1.785	54	109649	10.53	PPBV		99
13) N-BUTANE	1.801	43	194903	11.06	PPBV		100
14) BROMOMETHANE	1.859	94	110308	10.79	PPBV		99
15) CHLOROETHANE	1.907	64	72483	10.13	PPBV	#	90
16) DICHLOROFLUOROMETHANE	1.930	67	268652	10.84	PPBV		99
17) ACETONITRILE	1.997	41	115239	9.36	PPBV		99
18) ACROLEIN	2.036	56	62655	10.71	PPBV		98
19) FREON 123	2.049	83	270679	10.84	PPBV		99
20) FREON 123A	2.065	117	148778	10.06	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.129	101	311135	11.04	PPBV		100
22) ISOPROPYL ALCOHOL	2.142	45	290247	12.15	PPBV		99
23) ACETONE	2.071	58	70408	10.78	PPBV		100
24) PENTANE	2.242	42	134988	10.43	PPBV		100
25) IODOMETHANE	2.303	142	287484	11.08	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.328	96	117061	10.89	PPBV		99
27) CARBON DISULFIDE	2.464	76	316603	10.38	PPBV		98
28) ETHANOL	1.933	45	64897	10.20	PPBV		100
29) BROMOETHENE	2.004	106	107141	10.44	PPBV		99
30) ACRYLONITRILE	2.209	52	100564	10.95	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	108156	10.27	PPBV		97
32) 3-CHLOROPROPENE	2.409	76	60492	10.52	PPBV		99
33) FREON 113	2.460	151	185131	11.44	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	2.689	96	122177	10.33	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.338	59	321878	10.78	PPBV		99
36) METHYL TERTIARY BUTYL ...	2.791	73	372091	11.06	PPBV		100
37) TETRAHYDROFURAN	3.467	72	61873	11.34	PPBV		99
38) HEXANE	3.242	57	241359	10.65	PPBV		100
39) VINYL ACETATE	2.827	86	34923	10.80	PPBV		97
40) 1,1-DICHLOROETHANE	2.759	63	247364	10.82	PPBV		100
41) METHYL ETHYL KETONE	2.920	72	65125	10.54	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.116	96	133909	10.92	PPBV		100
43) DIISOPROPYL ETHER	3.245	59	71425	11.12	PPBV		96
44) ETHYL ACETATE	3.248	61	46105	10.62	PPBV		90
45) METHYL ACRYLATE	3.235	55	298658	10.90	PPBV	#	100
46) CHLOROFORM	3.261	83	268569	11.35	PPBV		100
47) 2,4-DIMETHYLPENTANE	3.743	57	287870	11.35	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.824	97	279200	11.20	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	286618	11.10	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	205457	11.17	PPBV	100
51)	BENZENE	4.126	78	392045	10.80	PPBV	100
53)	CYCLOHEXANE	4.335	84	178042	11.13	PPBV	100
54)	2,3-DIMETHYLPENTANE	4.586	71	92136	11.55	PPBV	99
55)	TRICHLOROETHENE	5.013	95	177553	10.41	PPBV	100
56)	1,2-DICHLOROPROPANE	4.782	63	163448	10.84	PPBV	100
57)	DIBROMOMETHANE	4.743	174	150387	10.35	PPBV	99
58)	ETHYL ACRYLATE	4.901	55	376913	11.17	PPBV	99
59)	BROMODICHLOROMETHANE	4.962	83	300258	10.90	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	770282	10.43	PPBV	100
61)	1,4-DIOXANE	5.023	88	94601	11.72	PPBV	98
62)	HEPTANE	5.422	43	261506	10.72	PPBV	99
63)	METHYL METHACRYLATE	5.319	69	152007	11.09	PPBV	99
64)	METHYL ISOBUTYL KETONE	6.039	58	154590	10.57	PPBV	100
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	233811	10.11	PPBV	100
66)	TOLUENE	7.132	91	488543	11.25	PPBV	99
67)	1,3-DICHLOROPROPANE	7.190	76	246988	11.34	PPBV	100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	217661	10.42	PPBV	100
69)	1,1,2-TRICHLOROETHANE	6.766	83	141620	11.44	PPBV	99
70)	2-HEXANONE	7.695	58	209349	10.26	PPBV	99
71)	ETHYL METHACRYLATE	7.830	69	256728	11.23	PPBV	99
72)	TETRACHLOROETHENE	8.846	164	180607	11.40	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.656	129	297263	11.82	PPBV	99
74)	1,2-DIBROMOETHANE	8.000	107	263017	11.75	PPBV	100
75)	OCTANE	8.994	43	371823	11.38	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	217186	12.09	PPBV	100
78)	CHLOROBENZENE	10.042	112	397219	11.61	PPBV	100
79)	ETHYLBENZENE	10.923	91	659125	11.76	PPBV	100
80)	M,P-XYLENE	11.347	91	1021629	22.50	PPBV	99
81)	O-XYLENE	12.280	91	524115	11.89	PPBV	100
82)	STYRENE	12.068	104	383070	11.59	PPBV	100
83)	NONANE	13.402	43	389550	11.35	PPBV	100
84)	BROMOFORM	11.158	173	265221	12.55	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	376337	11.92	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.572	75	296228	11.97	PPBV	100
88)	ISOPROPYLBENZENE	13.788	120	196063	11.70	PPBV	100
89)	BROMOBENZENE	13.653	77	368714	11.46	PPBV	99
90)	2-CHLOROTOLUENE	14.785	126	175998	11.26	PPBV	100
91)	N-PROPYLBENZENE	15.122	120	204116	11.48	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	742534	11.28	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	622476	11.36	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.174	118	271625	10.00	PPBV	99
95)	TERT-BUTYLBENZENE	16.498	134	152633	11.43	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	633879	11.67	PPBV	99
97)	BENZYL CHLORIDE	16.598	91	464197	10.58	PPBV	99
98)	M-DICHLOROBENZENE	16.569	146	406824	10.91	PPBV	100
99)	P-DICHLOROBENZENE	16.666	146	408776	11.12	PPBV	100
100)	O-DICHLOROBENZENE	16.987	146	388114	11.22	PPBV	100
101)	SEC-BUTYLBENZENE	16.813	134	187876	11.81	PPBV	100
102)	1,2,3-TRIMETHYLBENZENE	16.936	105	621174	11.41	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.013	134	206409	11.68	PPBV	100
104)	N-BUTYLBENZENE	17.379	134	197029	11.69	PPBV	100
105)	HEXACHLOROETHANE	17.559	117	224249	10.80	PPBV	100
106)	HEXACHLOROBUTADIENE	18.633	225	277087	11.26	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.315	180	362853	12.29	PPBV	100
108)	NAPHTHALENE	18.363	128	837609	12.65	PPBV	99
110)	TVHC as equiv Pentane	2.242	TIC	634578	10.37	PPBV	100

Quantitation Report (QT Reviewed)

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Acq On : 7 Aug 2025 6:07 pm
Operator : benk
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Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
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Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

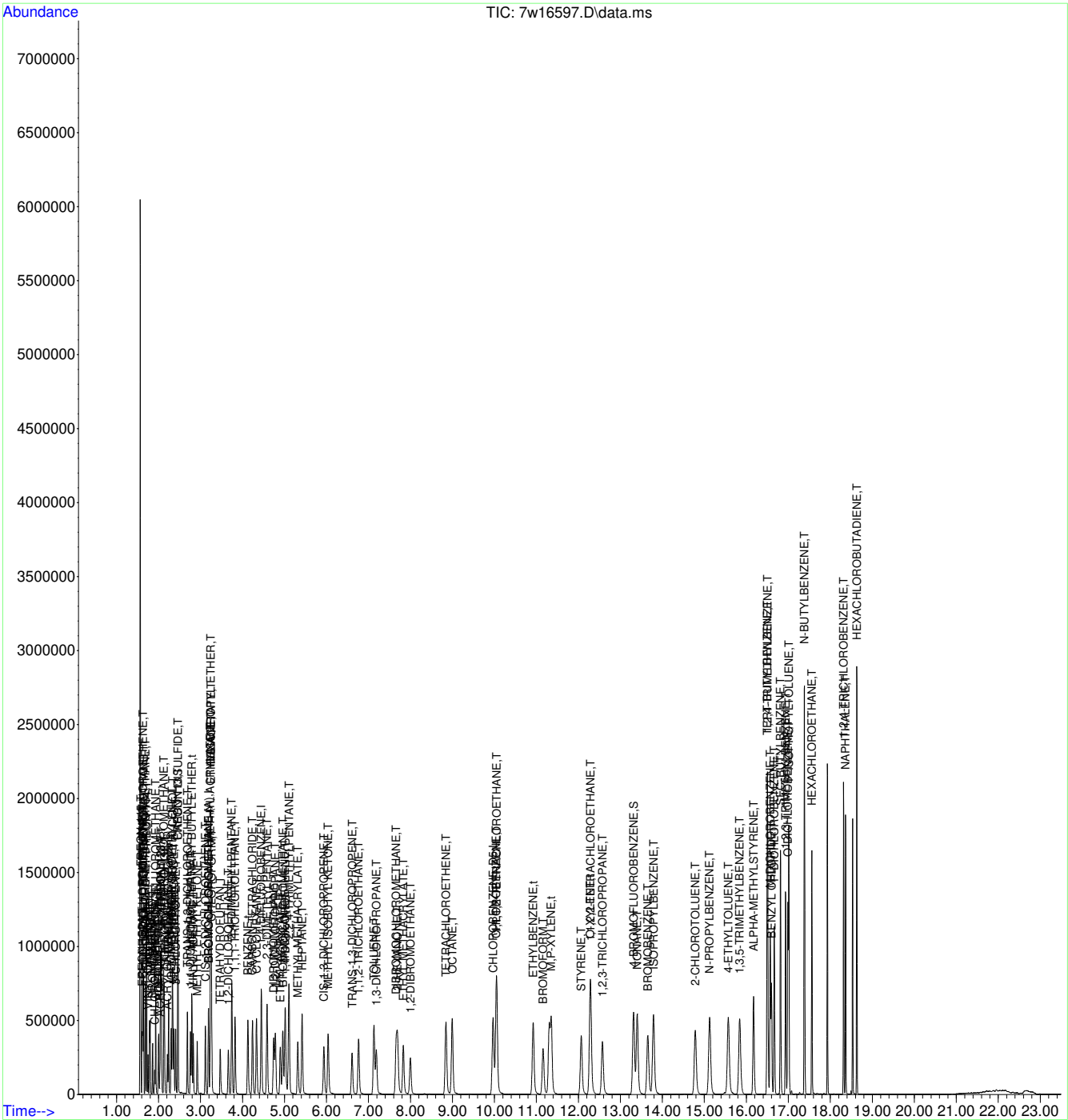
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

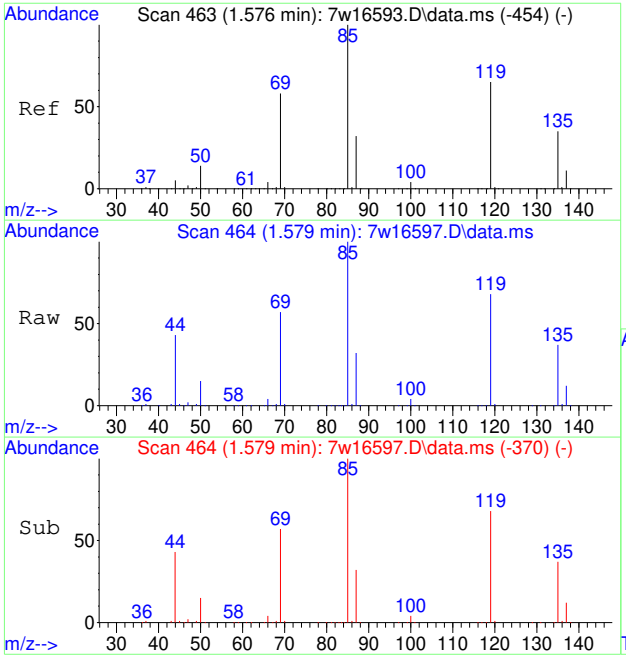
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:08:48 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

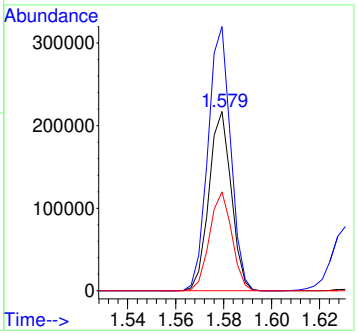


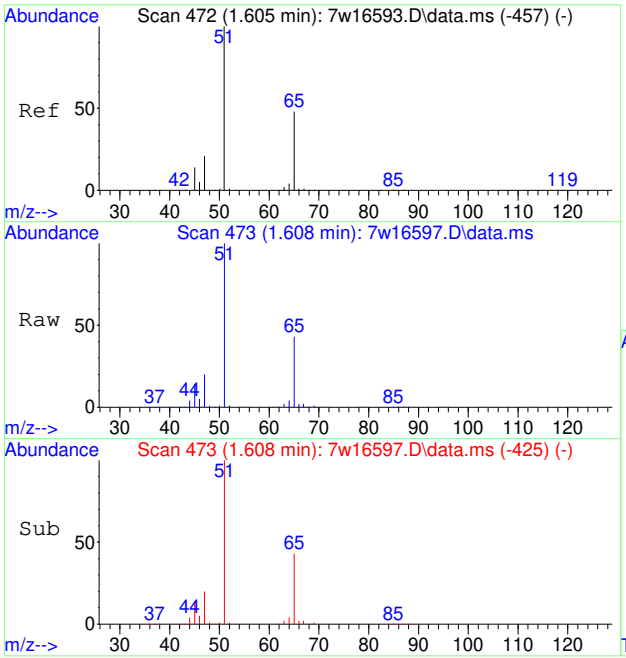


#2
FREON 115
Concen: 10.68 PPBV
RT: 1.579 min Scan# 464
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:119 Resp: 140448

Ion	Ratio	Lower	Upper
119	100		
85	149.3	104.4	193.8
135	55.3	38.6	71.8

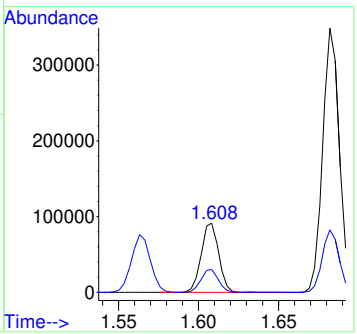


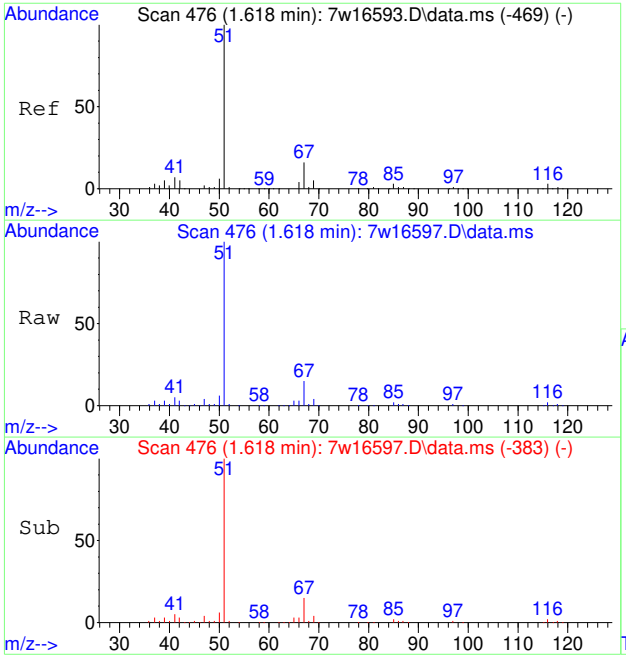


#3
FREON 152A
Concen: 10.25 PPBV
RT: 1.608 min Scan# 473
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 69502

Ion	Ratio	Lower	Upper
65	100		
45	32.5	23.0	42.8

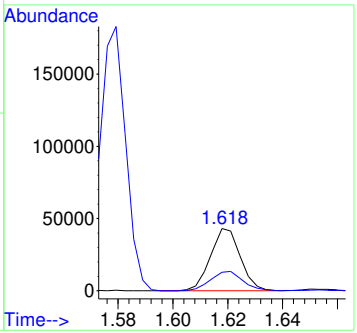


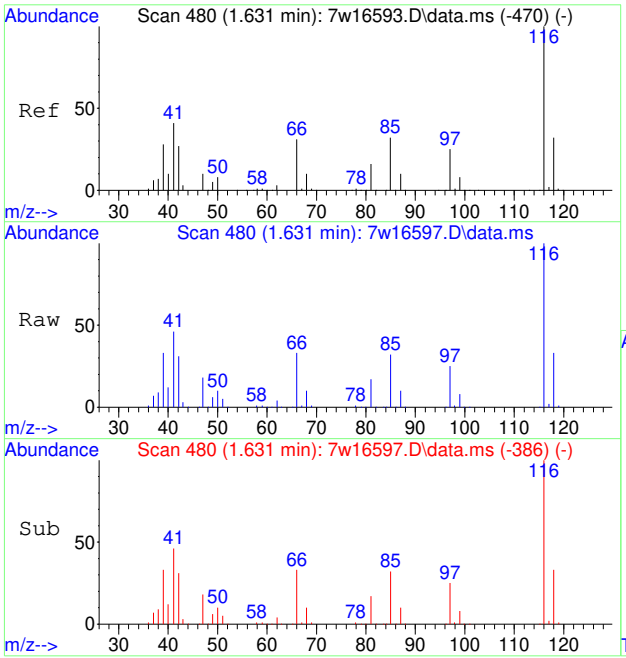


#4
CHLORODIFLUOROMETHANE
Concen: 11.13 PPBV
RT: 1.618 min Scan# 476
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 32765

Ion	Ratio	Lower	Upper
67	100		
69	33.8	25.3	47.1

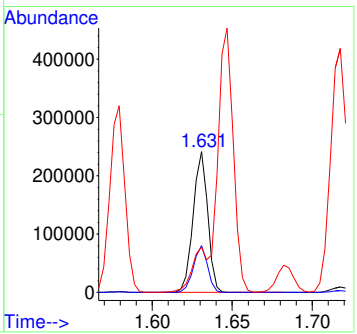


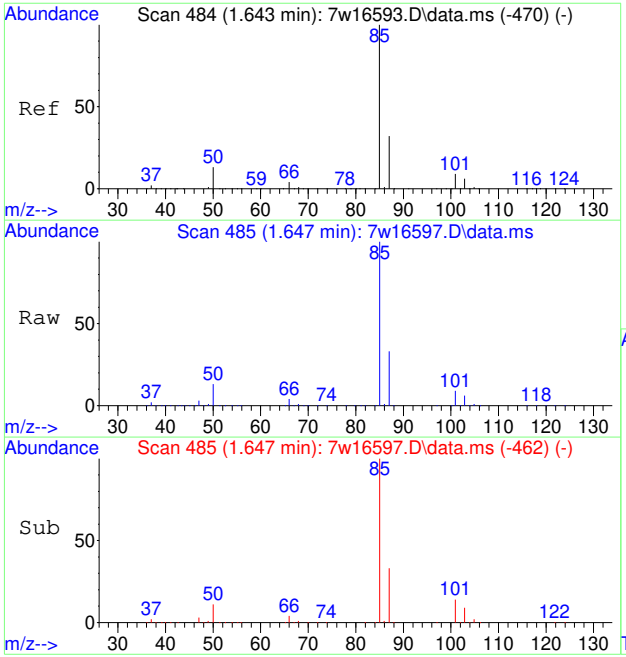


#5
CHLOROTRIFLUOROETHENE
Concen: 10.78 PPBV
RT: 1.631 min Scan# 480
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:116 Resp: 152723

Ion	Ratio	Lower	Upper
116	100		
118	32.2	22.6	42.0
85	229.5	152.4	283.0

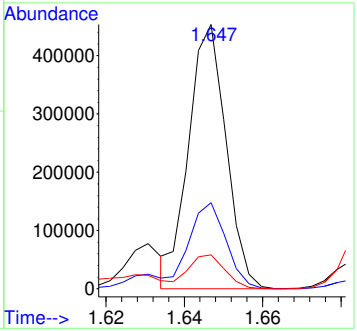


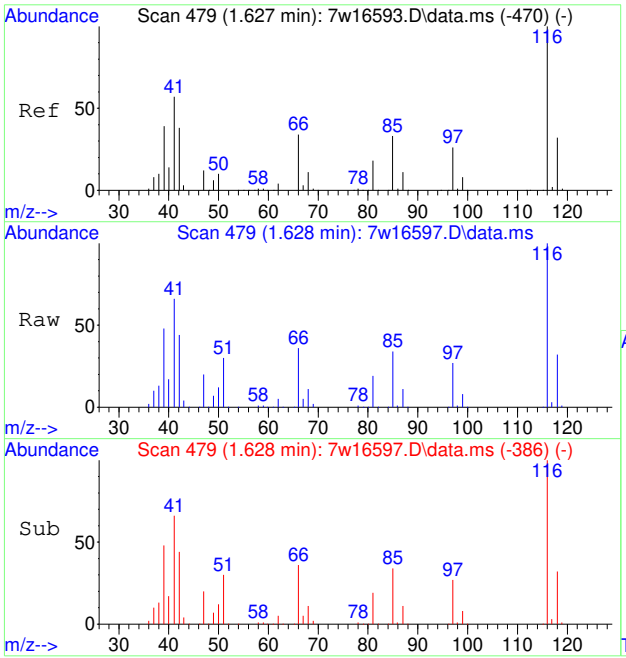


#6
DICHLORODIFLUOROMETHANE
Concen: 11.58 PPBV m
RT: 1.647 min Scan# 485
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 300519

Ion	Ratio	Lower	Upper
85	100		
87	37.8	23.0	42.6
50	21.9	13.5	25.1

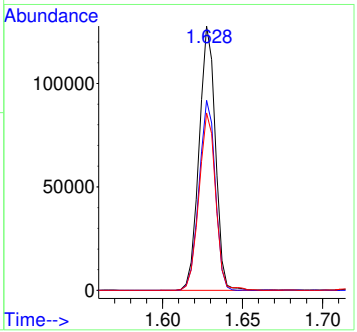


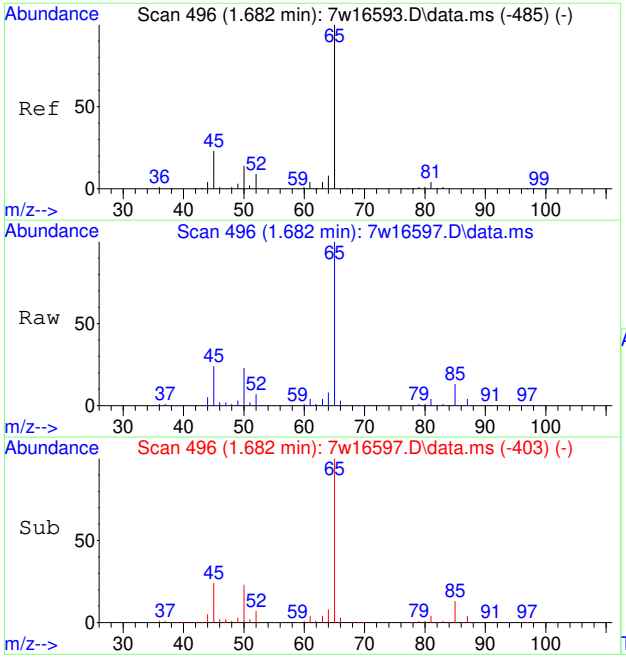


#7
PROPYLENE
Concen: 10.32 PPBV
RT: 1.628 min Scan# 479
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 90576

Ion	Ratio	Lower	Upper
41	100		
39	71.5	50.5	93.7
42	68.3	47.0	87.4

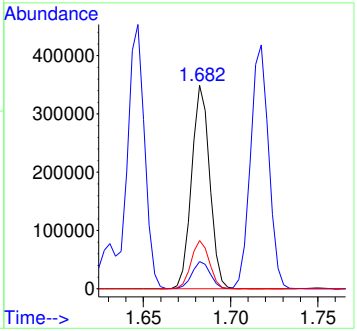


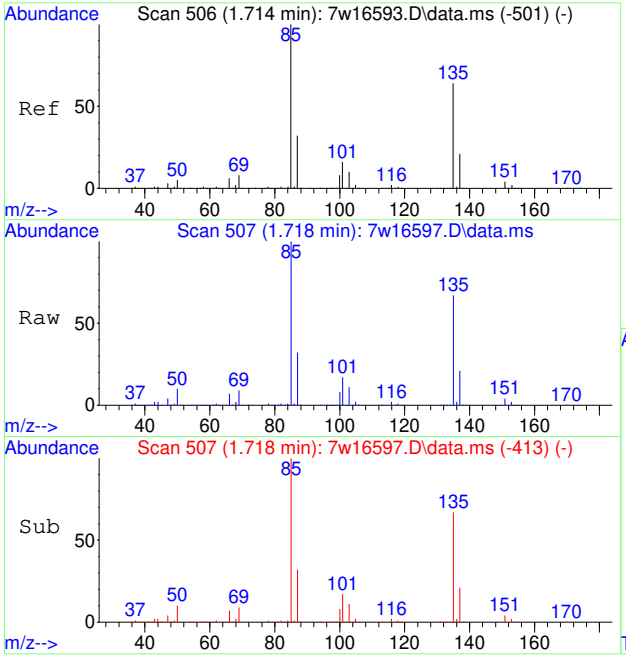


#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 10.91 PPBV
RT: 1.682 min Scan# 496
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 65 Resp: 252062

Ion	Ratio	Lower	Upper
65	100		
85	13.5	9.4	17.4
45	23.9	16.9	31.3

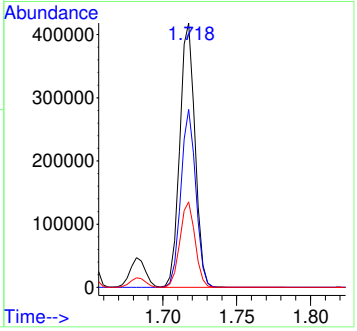


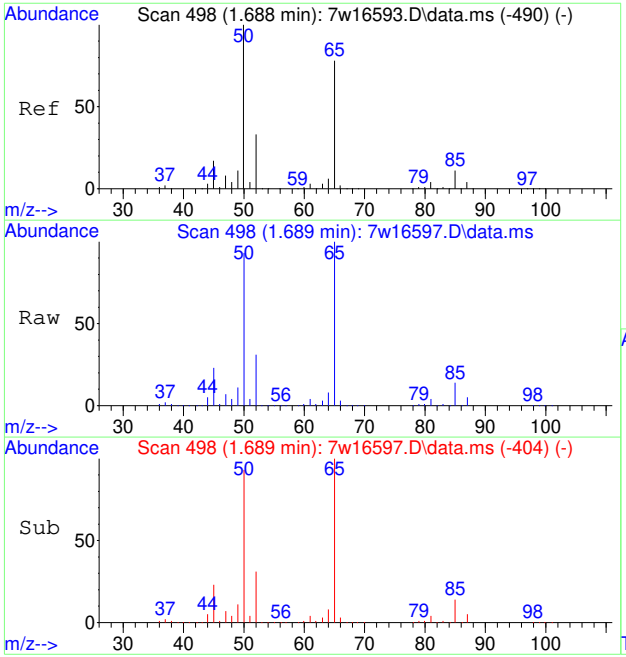


#9
FREON 114
Concen: 11.35 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 85 Resp: 303615

Ion	Ratio	Lower	Upper
85	100		
135	66.1	46.1	85.7
87	32.2	22.6	42.0

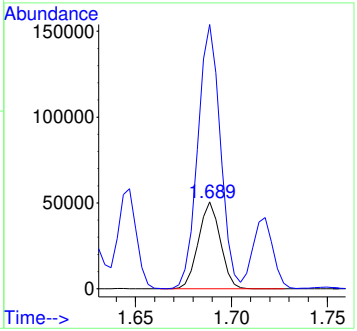


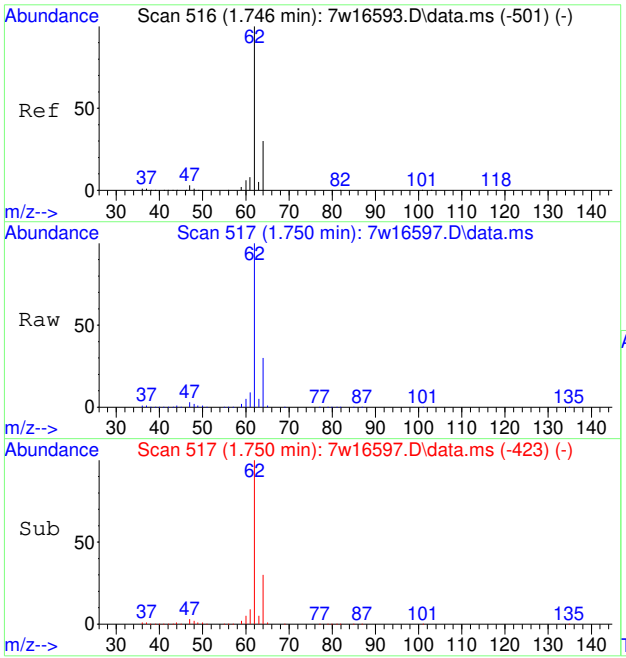


#10
CHLOROMETHANE
Concen: 10.81 PPBV
RT: 1.689 min Scan# 498
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 40254

Ion	Ratio	Lower	Upper
52	100		
50	317.7	225.6	419.0

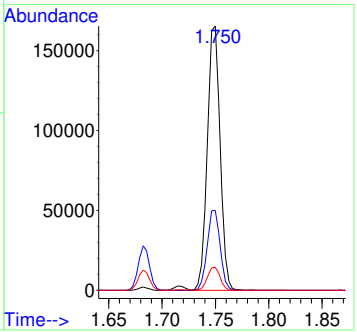


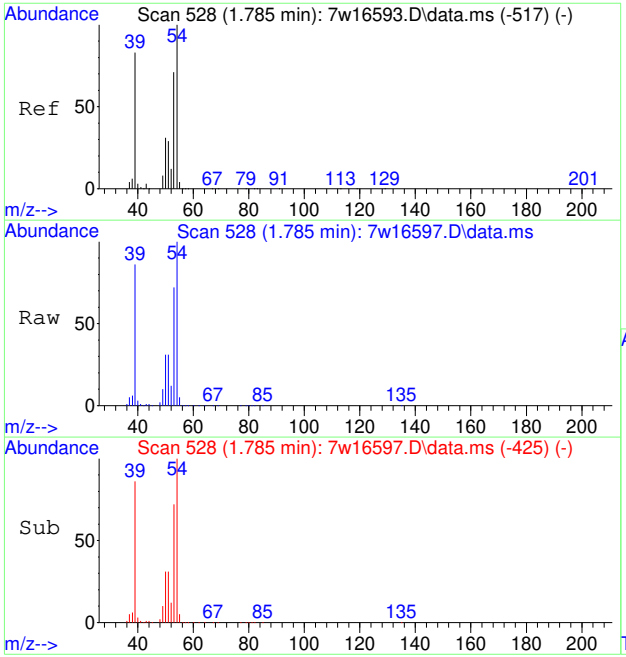


#11
VINYL CHLORIDE
Concen: 10.62 PPBV
RT: 1.750 min Scan# 517
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 140045

Ion	Ratio	Lower	Upper
62	100		
64	30.2	21.3	39.6
61	8.8	5.7	10.5

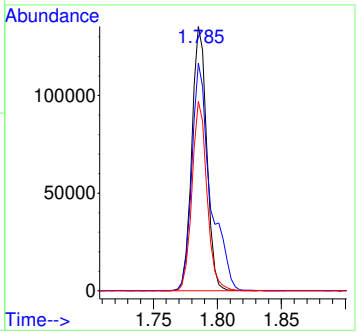


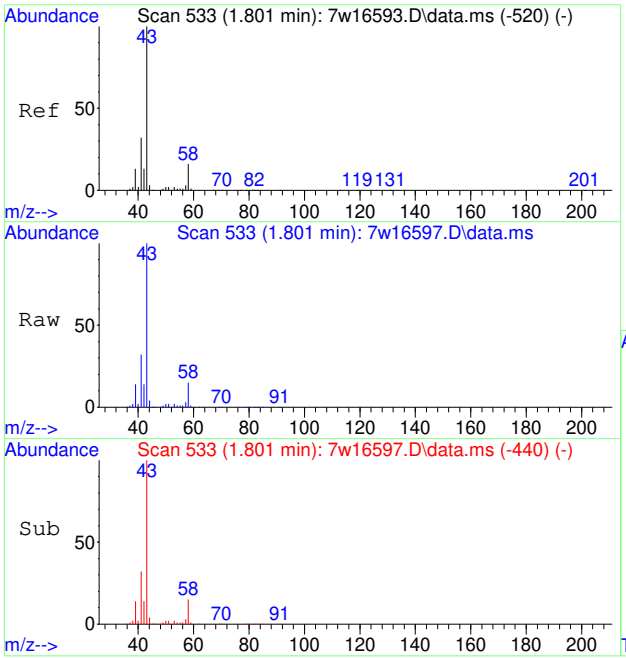


#12
1,3-BUTADIENE
Concen: 10.53 PPBV
RT: 1.785 min Scan# 528
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 54 Resp: 109649

Ion	Ratio	Lower	Upper
54	100		
39	107.1	78.4	138.4
53	71.9	40.9	100.9

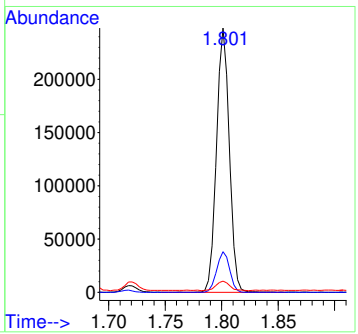


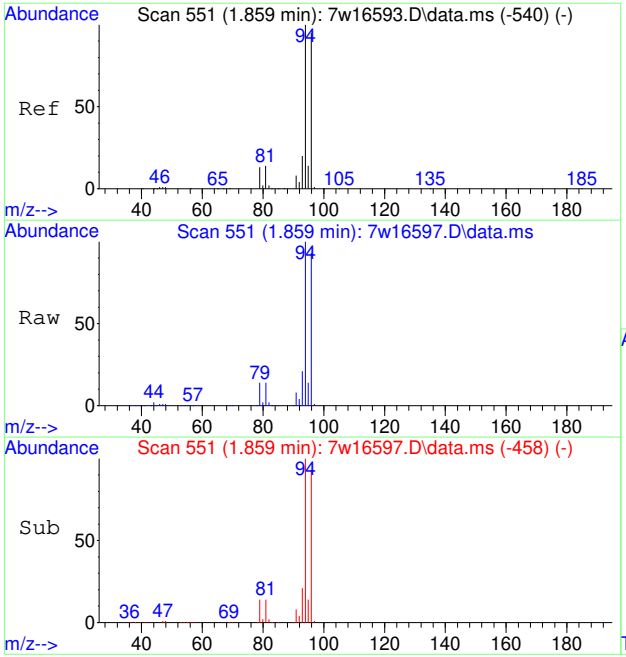


#13
N-BUTANE
Concen: 11.06 PPBV
RT: 1.801 min Scan# 533
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 194903

Ion	Ratio	Lower	Upper
43	100		
58	15.6	11.0	20.4
44	3.8	2.6	4.8

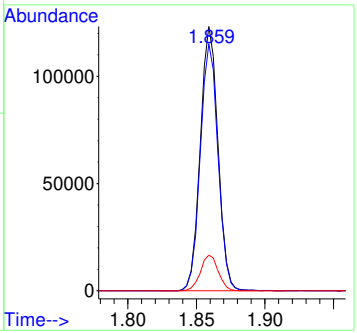


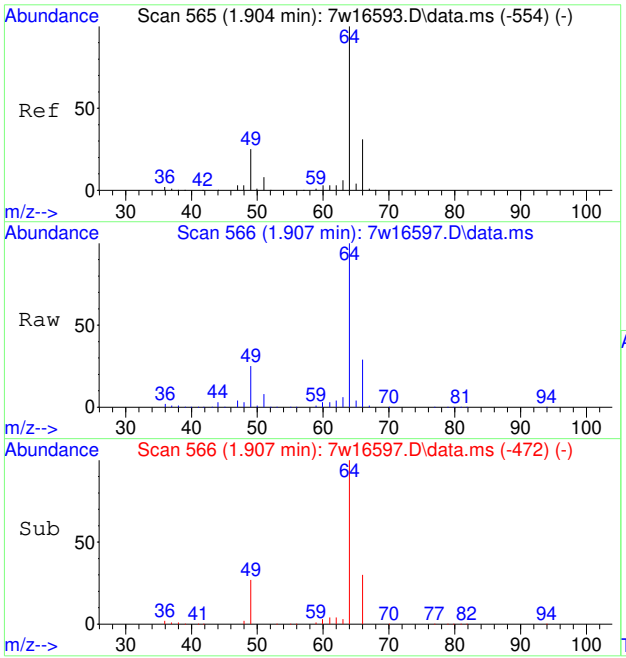


#14
BROMOMETHANE
Concen: 10.79 PPBV
RT: 1.859 min Scan# 551
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 94 Resp: 110308

Ion	Ratio	Lower	Upper
94	100		
96	93.6	66.1	122.7
95	13.6	9.9	18.3

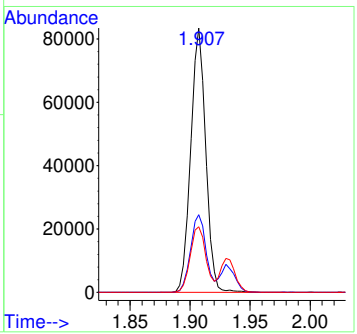


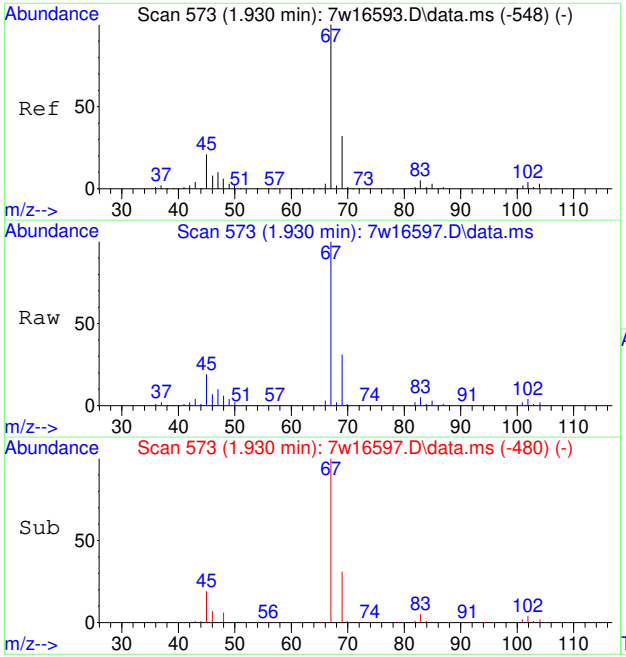


#15
CHLOROETHANE
Concen: 10.13 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 64 Resp: 72483

Ion	Ratio	Lower	Upper
64	100		
66	40.6	21.5	39.9#
49	26.3	19.0	35.4

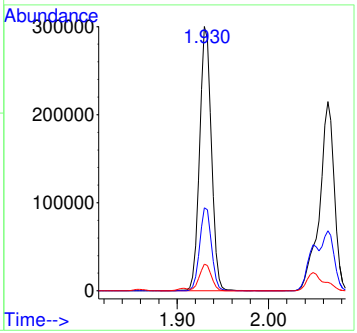


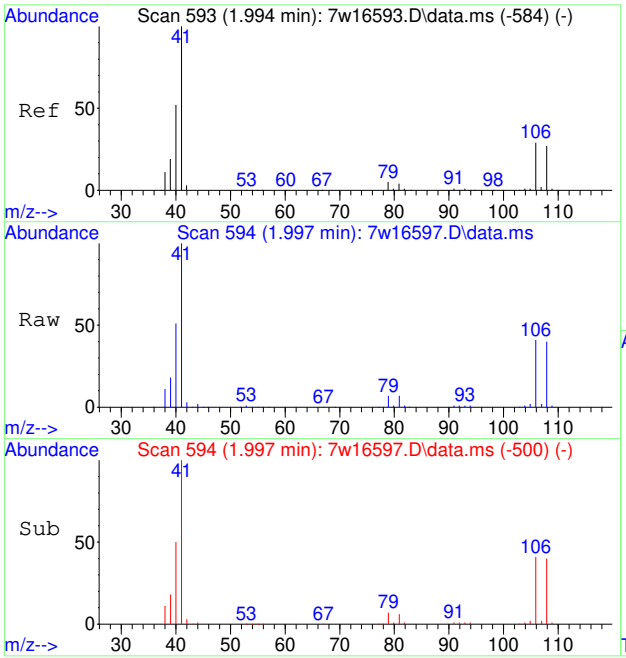


#16
DICHLOROFLUOROMETHANE
Concen: 10.84 PPBV
RT: 1.930 min Scan# 573
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 67 Resp: 268652

Ion	Ratio	Lower	Upper
67	100		
69	31.6	21.8	40.6
47	11.1	8.0	14.8

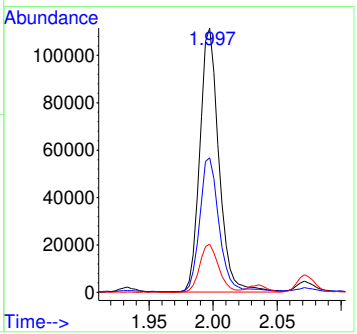


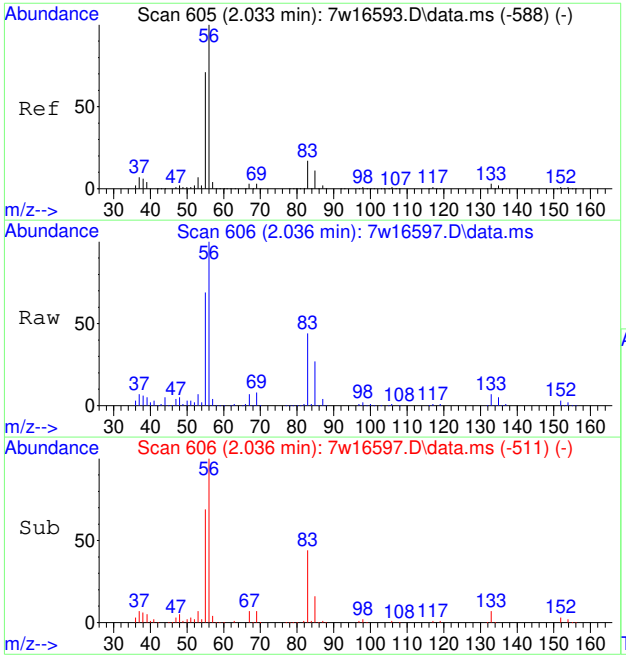


#17
ACETONITRILE
Concen: 9.36 PPBV
RT: 1.997 min Scan# 594
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 41 Resp: 115239

Ion	Ratio	Lower	Upper
41	100		
40	51.9	36.7	68.1
39	18.2	13.1	24.3

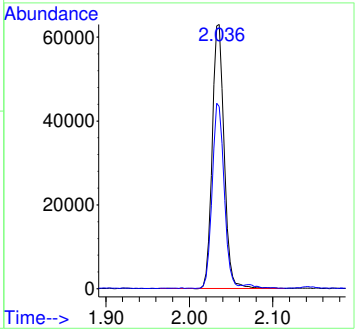


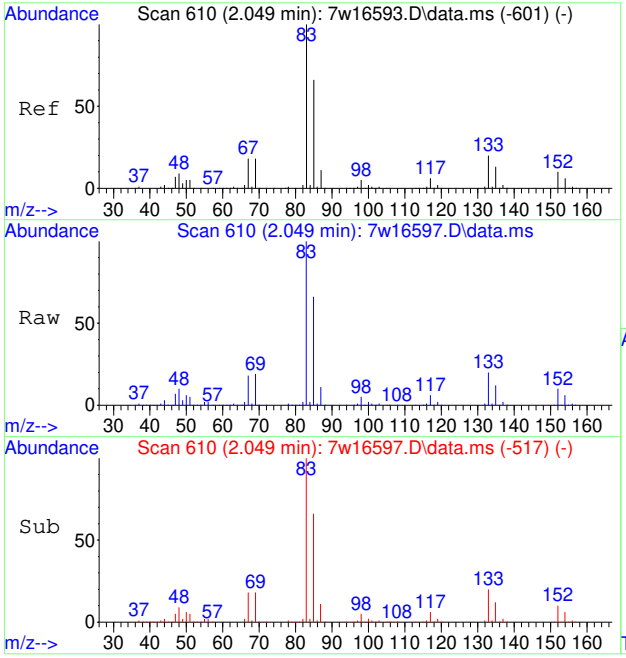


#18
ACROLEIN
Concen: 10.71 PPBV
RT: 2.036 min Scan# 606
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 56 Resp: 62655

Ion	Ratio	Lower	Upper
56	100		
55	71.8	48.9	90.7

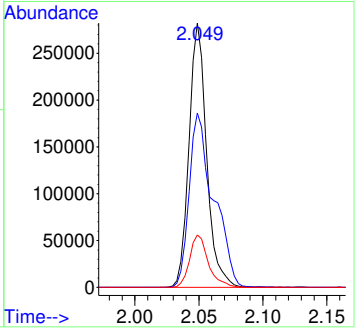


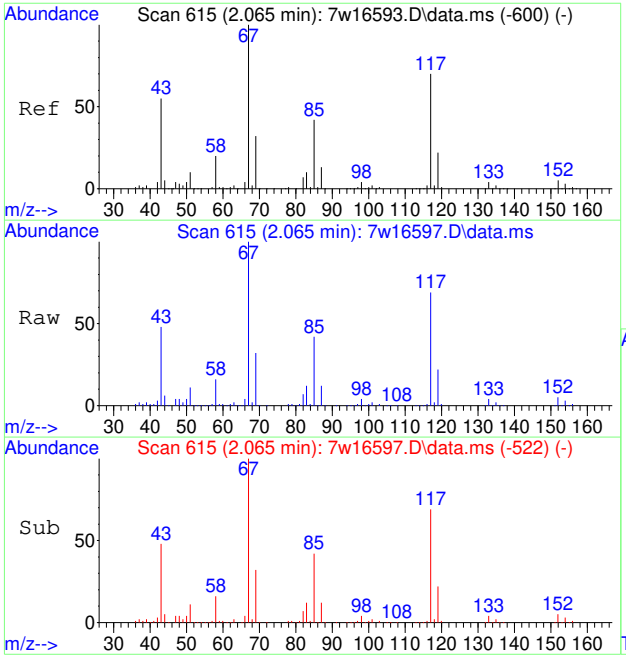


#19
FREON 123
Concen: 10.84 PPBV
RT: 2.049 min Scan# 610
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 270679

Ion	Ratio	Lower	Upper
83	100		
85	91.4	64.9	120.5
133	21.2	14.7	27.3

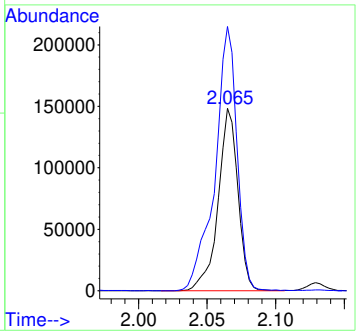


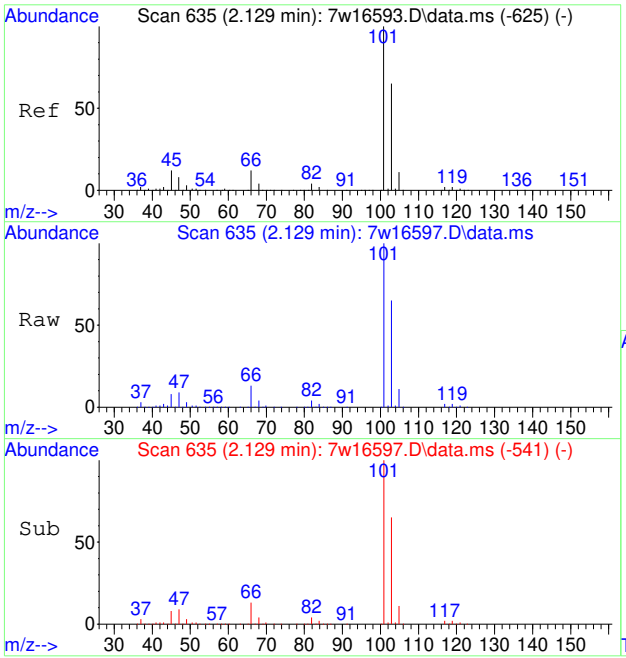


#20
FREON 123A
Concen: 10.06 PPBV
RT: 2.065 min Scan# 615
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 148778

Ion	Ratio	Lower	Upper
117	100		
67	161.4	111.3	206.7

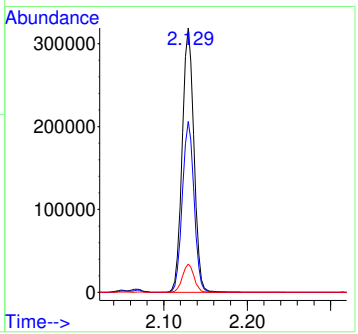


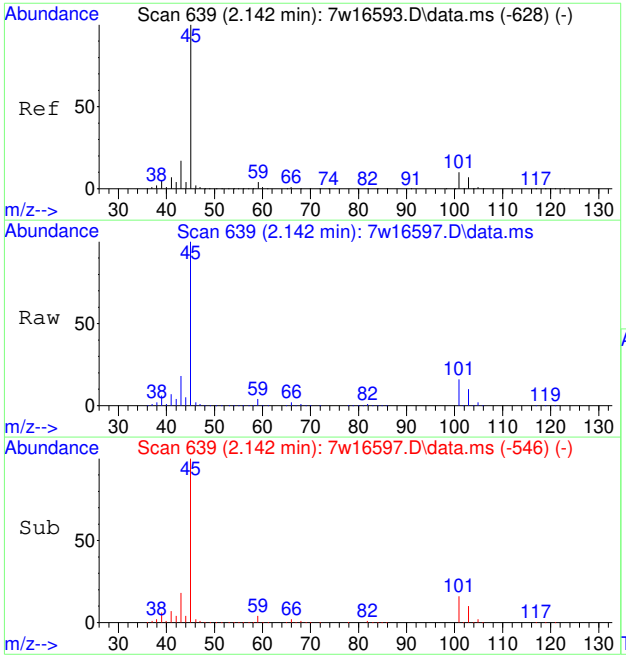


#21
TRICHLOROFLUOROMETHANE
Concen: 11.04 PPBV
RT: 2.129 min Scan# 635
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:101 Resp: 311135

Ion	Ratio	Lower	Upper
101	100		
103	64.7	45.2	84.0
105	10.6	7.3	13.5

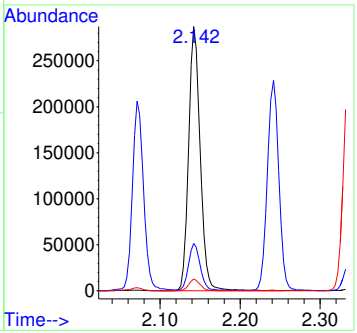


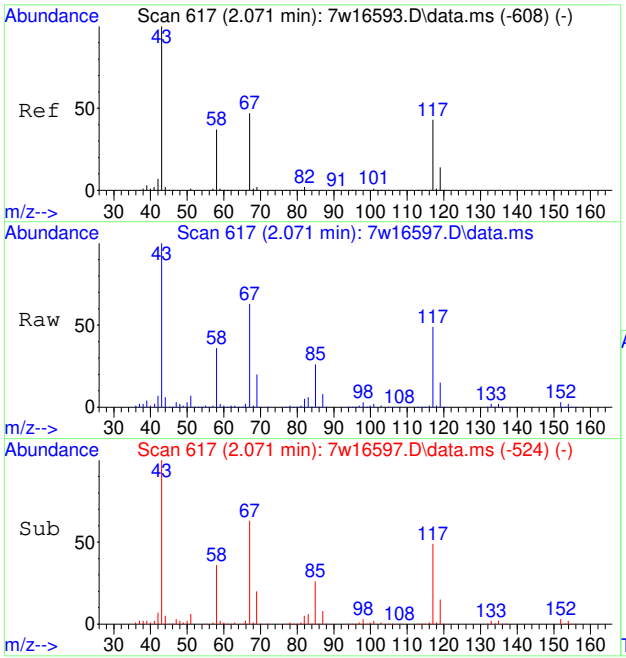


#22
ISOPROPYL ALCOHOL
Concen: 12.15 PPBV
RT: 2.142 min Scan# 639
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 290247

Ion	Ratio	Lower	Upper
45	100		
43	18.3	12.5	23.3
59	4.4	3.1	5.7

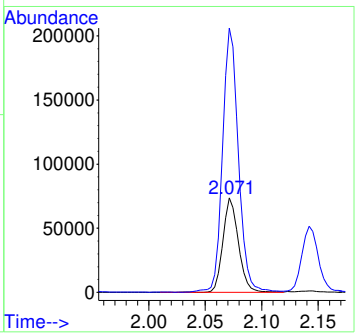


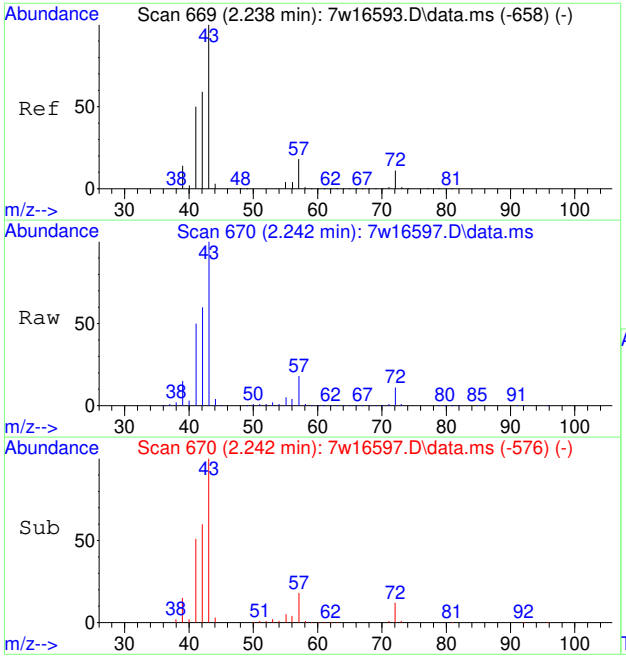


#23
ACETONE
Concen: 10.78 PPBV
RT: 2.071 min Scan# 617
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 70408

Ion	Ratio	Lower	Upper
58	100		
43	284.2	198.6	368.8

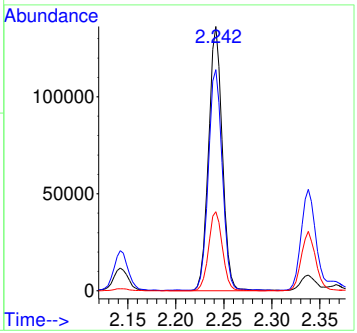


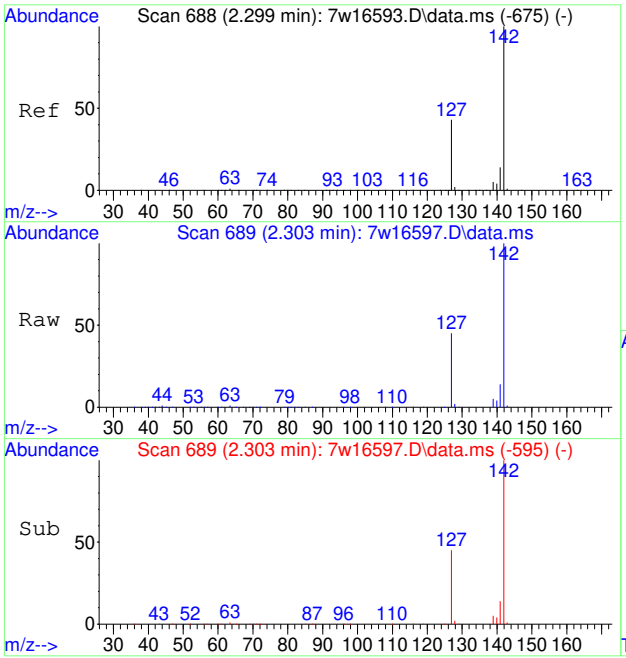


#24
PENTANE
Concen: 10.43 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 42 Resp: 134988

Ion	Ratio	Lower	Upper
42	100		
41	85.4	59.8	111.0
57	30.5	21.1	39.1

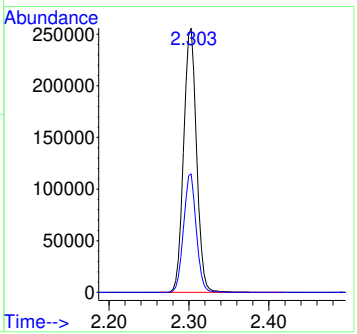


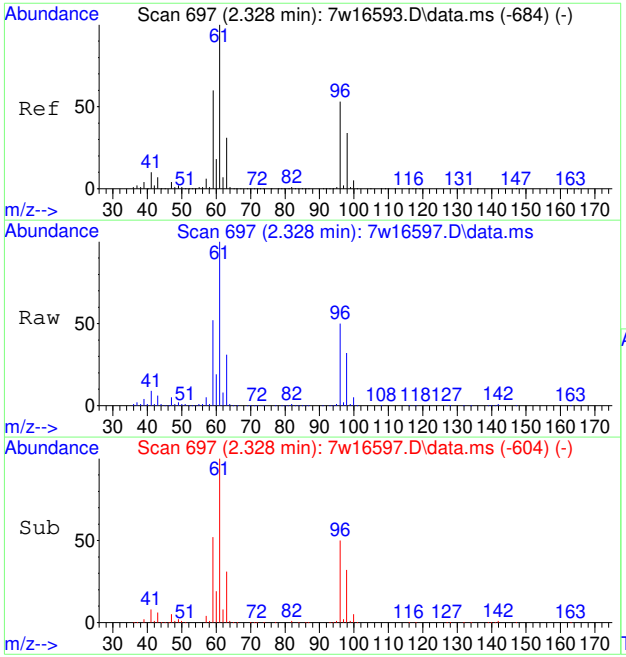


#25
IODOMETHANE
Concen: 11.08 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:142 Resp: 287484

Ion	Ratio	Lower	Upper
142	100		
127	44.2	30.6	56.8

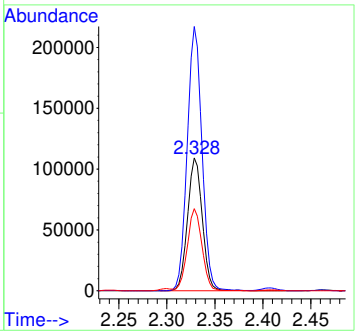


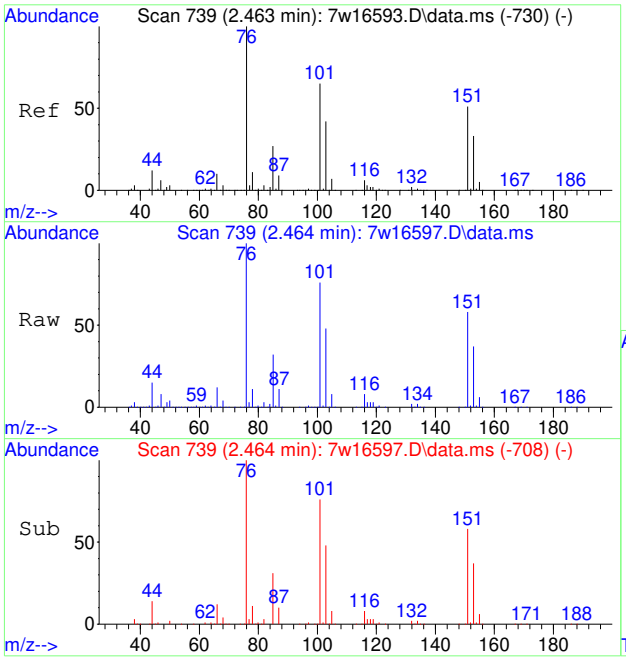


#26
1,1-DICHLOROETHYLENE
Concen: 10.89 PPBV
RT: 2.328 min Scan# 697
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 117061

Ion	Ratio	Lower	Upper
96	100		
61	198.6	138.3	256.8
63	62.7	44.2	82.0

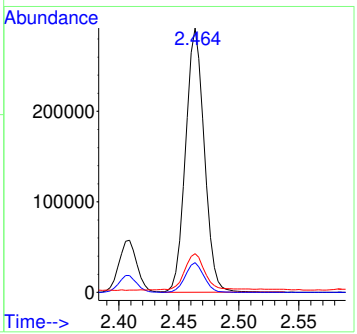


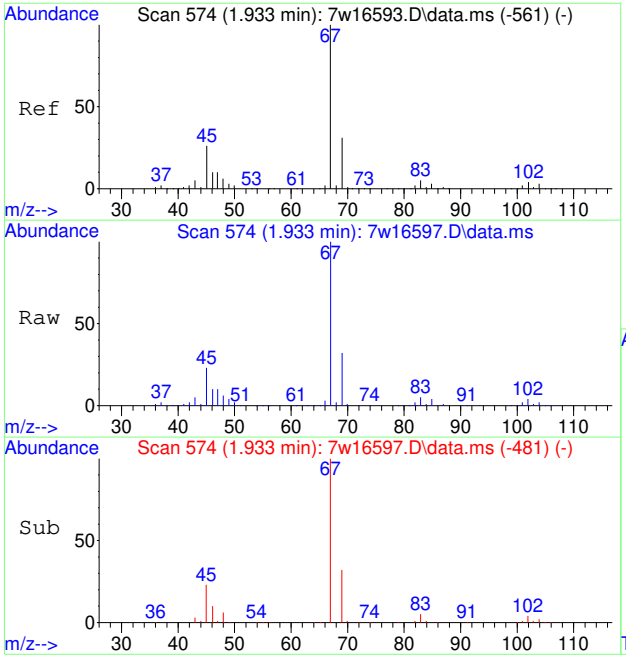


#27
CARBON DISULFIDE
Concen: 10.38 PPBV
RT: 2.464 min Scan# 739
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 316603

Ion	Ratio	Lower	Upper
76	100		
78	11.2	7.7	14.3
44	15.7	10.2	19.0

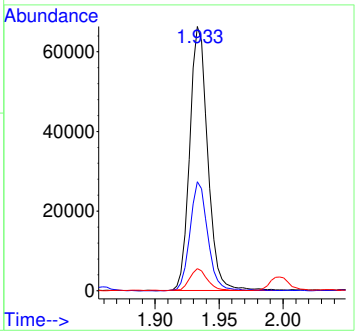


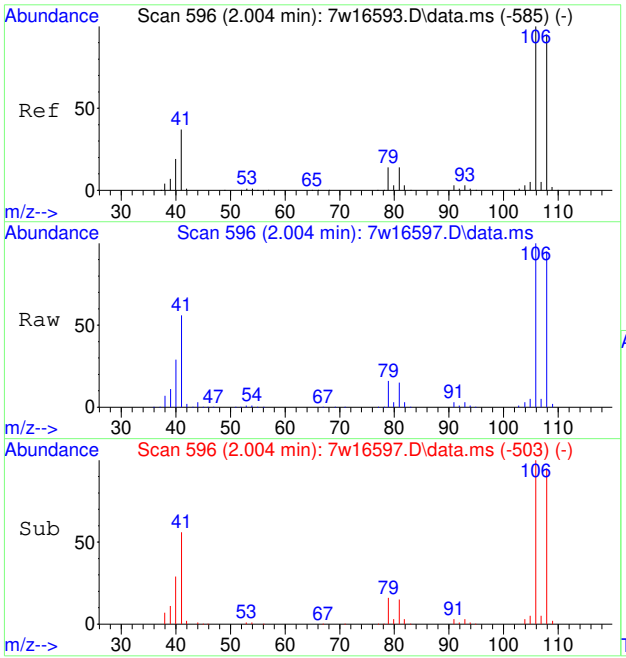


#28
ETHANOL
Concen: 10.20 PPBV
RT: 1.933 min Scan# 574
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 45 Resp: 64897

Ion	Ratio	Lower	Upper
45	100		
46	41.3	29.0	53.9
42	8.0	5.7	10.5

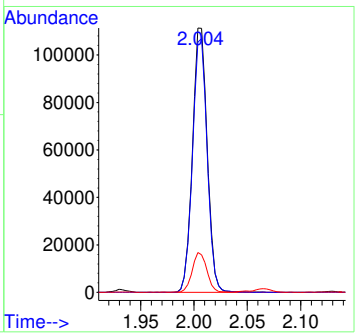


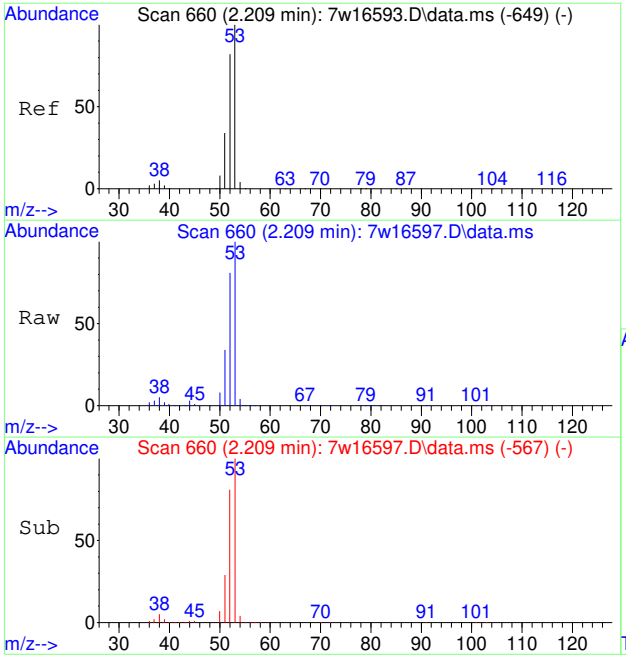


#29
BROMOETHENE
Concen: 10.44 PPBV
RT: 2.004 min Scan# 596
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:106 Resp: 107141

Ion	Ratio	Lower	Upper
106	100		
108	95.8	66.1	122.7
81	15.1	10.6	19.8

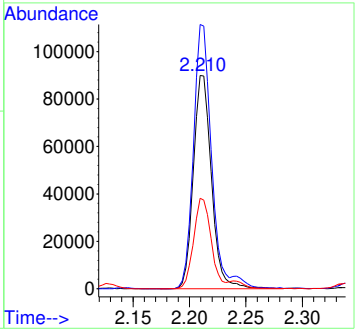


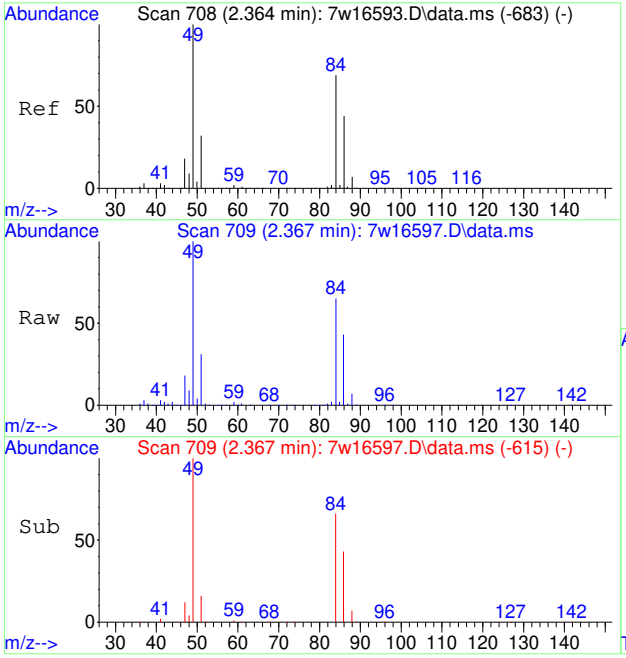


#30
ACRYLONITRILE
Concen: 10.95 PPBV
RT: 2.209 min Scan# 660
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 52 Resp: 100564

Ion	Ratio	Lower	Upper
52	100		
53	125.2	88.2	163.8
51	44.5	31.3	58.1

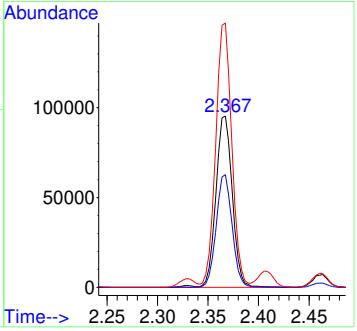


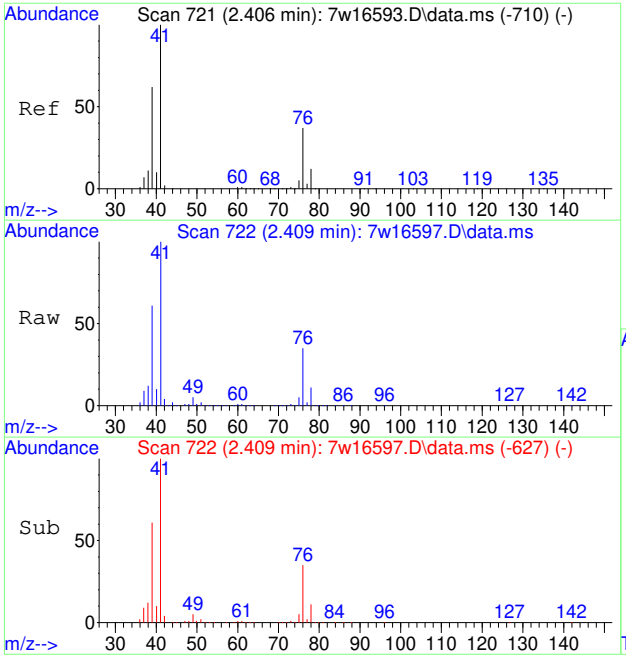


#31
METHYLENE CHLORIDE
Concen: 10.27 PPBV
RT: 2.367 min Scan# 709
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 108156

Ion	Ratio	Lower	Upper
84	100		
86	63.9	44.3	82.3
49	150.9	109.5	203.3

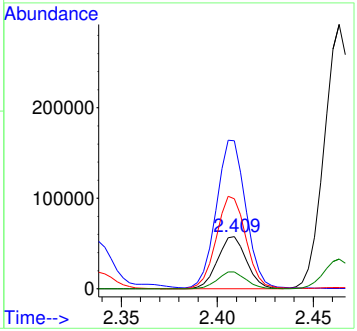


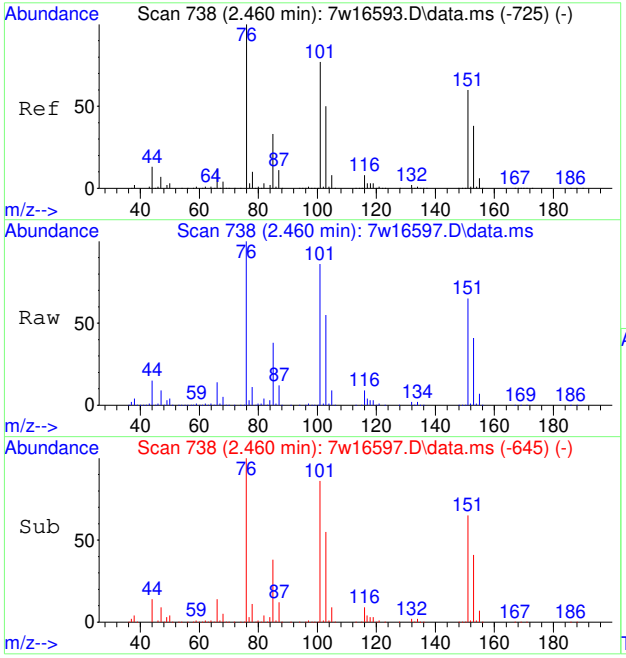


#32
3-CHLOROPROPENE
Concen: 10.52 PPBV
RT: 2.409 min Scan# 722
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 60492

Ion	Ratio	Lower	Upper
76	100		
41	291.7	202.6	376.2
39	181.6	125.8	233.6
78	32.4	23.1	42.9

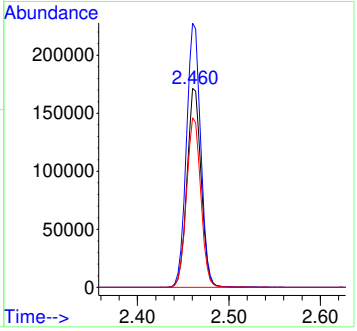


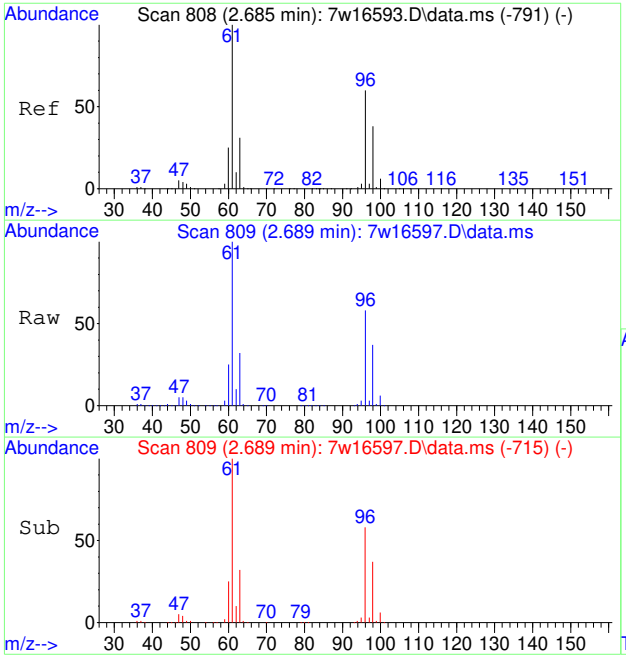


#33
FREON 113
Concen: 11.44 PPBV
RT: 2.460 min Scan# 738
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:151 Resp: 185131

Ion	Ratio	Lower	Upper
151	100		
101	133.4	93.1	172.9
103	85.8	60.1	111.5

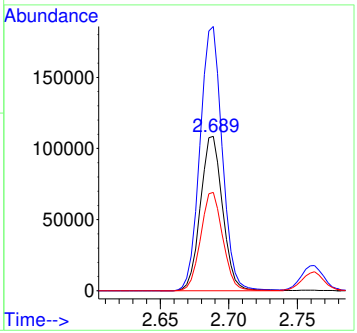


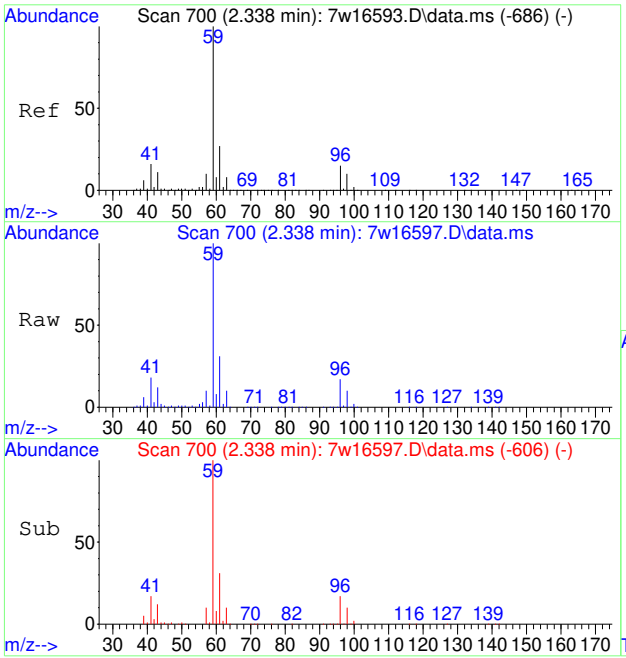


#34
TRANS-1,2-DICHLOROETHENE
Concen: 10.33 PPBV
RT: 2.689 min Scan# 809
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 122177

Ion	Ratio	Lower	Upper
96	100		
61	171.2	119.6	222.0
98	63.6	44.9	83.5

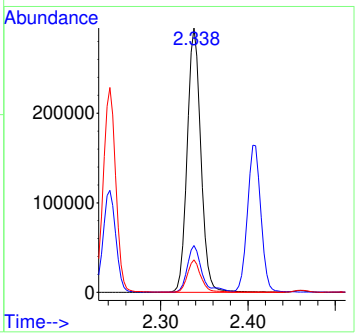


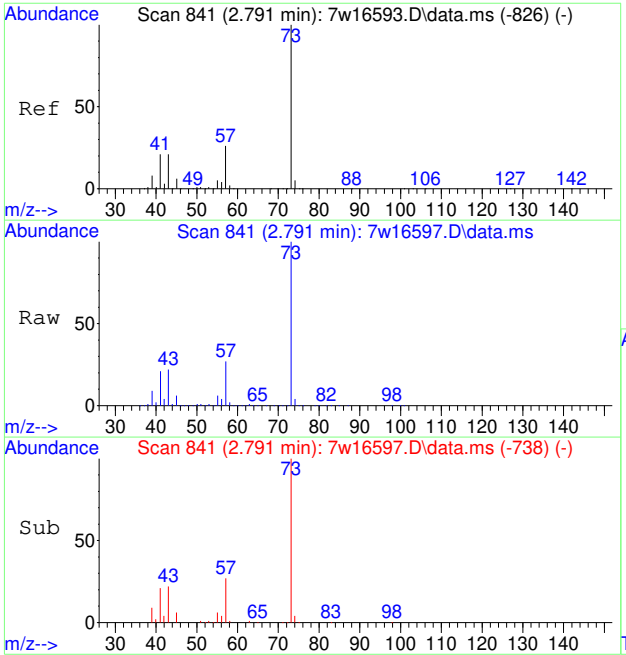


#35
TERTIARY BUTYL ALCOHOL
Concen: 10.78 PPBV
RT: 2.338 min Scan# 700
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 321878

Ion	Ratio	Lower	Upper
59	100		
41	18.6	12.9	23.9
43	12.1	8.0	14.8

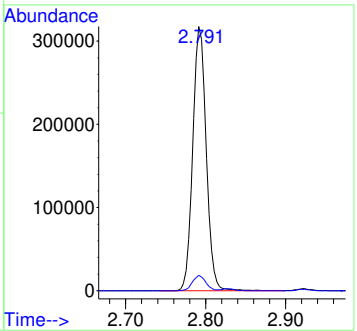


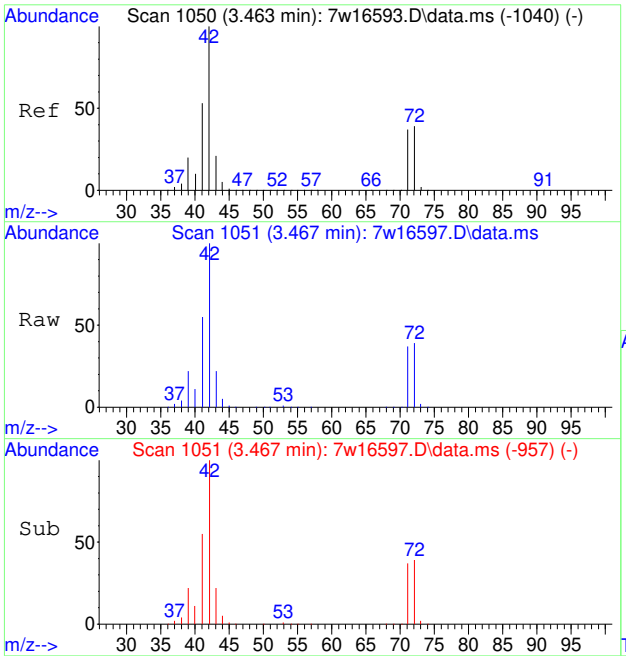


#36
METHYL TERTIARY BUTYL ETHER
Concen: 11.06 PPBV
RT: 2.791 min Scan# 841
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 73 Resp: 372091

Ion	Ratio	Lower	Upper
73	100		
45	5.8	4.1	7.5

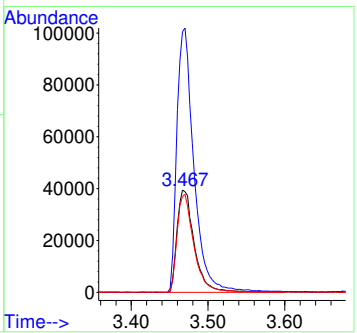


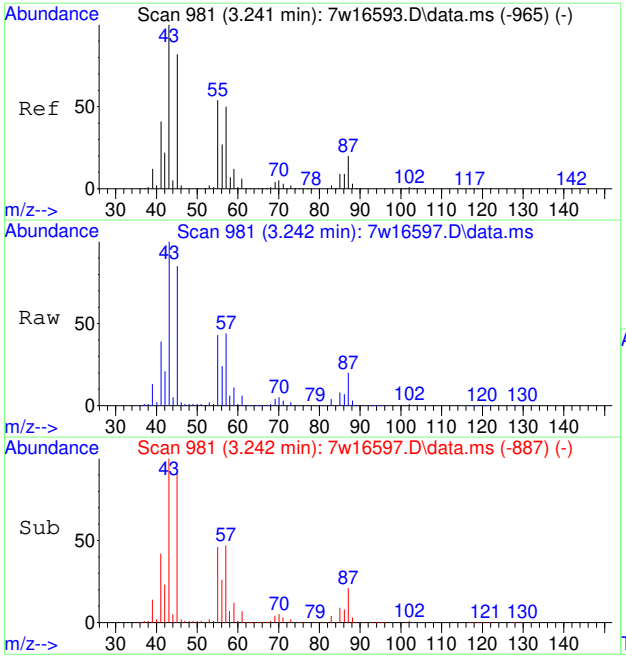


#37
TETRAHYDROFURAN
Concen: 11.34 PPBV
RT: 3.467 min Scan# 1051
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 61873

Ion	Ratio	Lower	Upper
72	100		
42	255.2	180.3	334.8
71	93.5	65.8	122.2

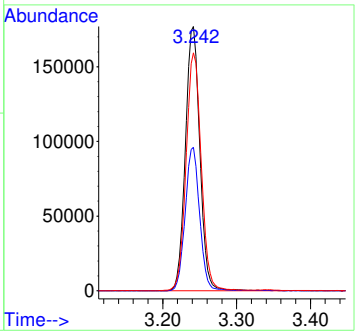


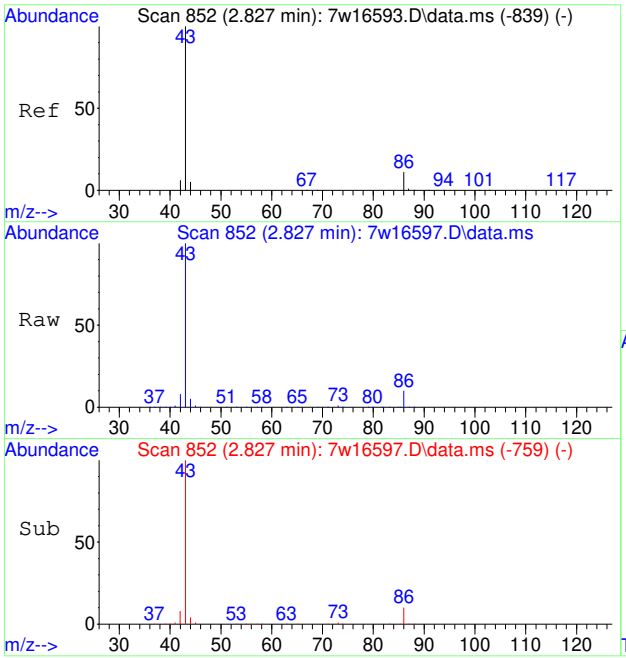


#38
HEXANE
Concen: 10.65 PPBV
RT: 3.242 min Scan# 981
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 241359

Ion	Ratio	Lower	Upper
57	100		
56	54.3	38.0	70.6
41	94.3	65.9	122.5

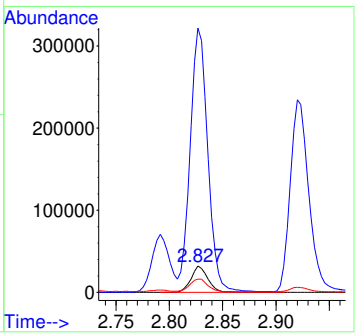


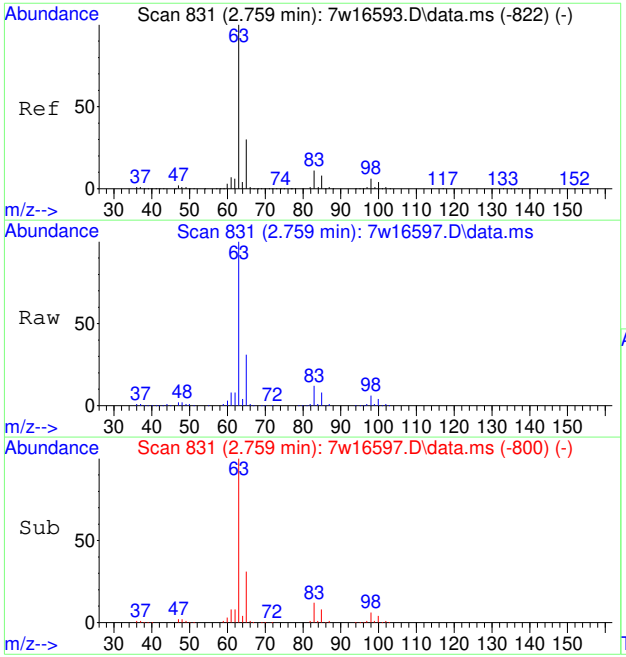


#39
VINYL ACETATE
Concen: 10.80 PPBV
RT: 2.827 min Scan# 852
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 86 Resp: 34923

Ion	Ratio	Lower	Upper
86	100		
43	1069.3	758.7	1408.9
44	53.9	39.5	73.3

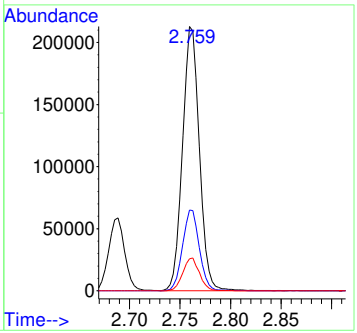


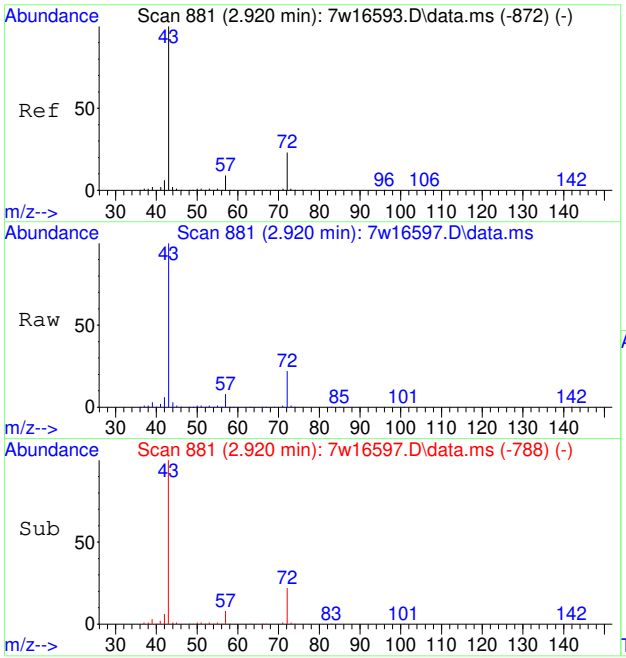


#40
1,1-DICHLOROETHANE
Concen: 10.82 PPBV
RT: 2.759 min Scan# 831
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 247364

Ion	Ratio	Lower	Upper
63	100		
65	30.7	21.4	39.8
83	12.4	8.3	15.5

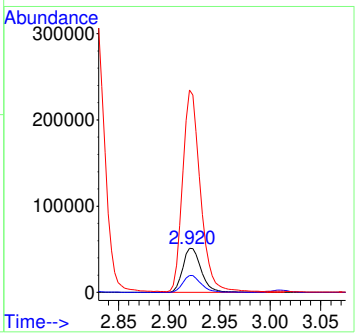


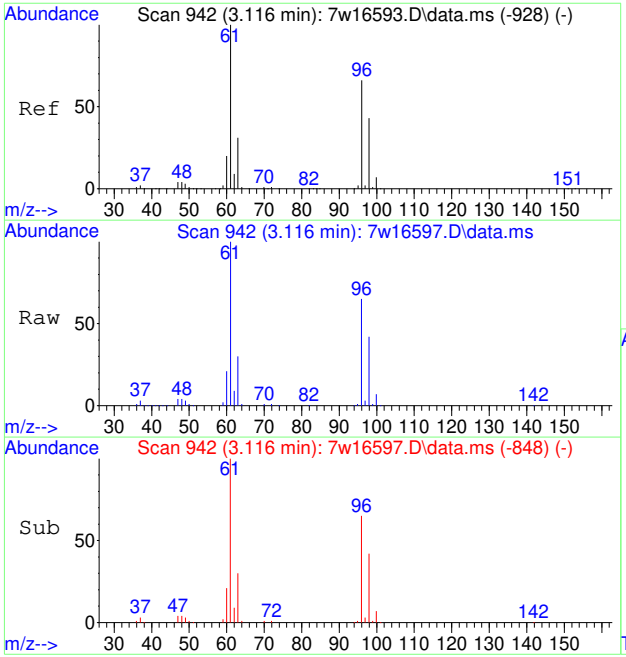


#41
METHYL ETHYL KETONE
Concen: 10.54 PPBV
RT: 2.920 min Scan# 881
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 72 Resp: 65125

Ion	Ratio	Lower	Upper
72	100		
57	38.2	26.9	49.9
43	435.4	309.4	574.6

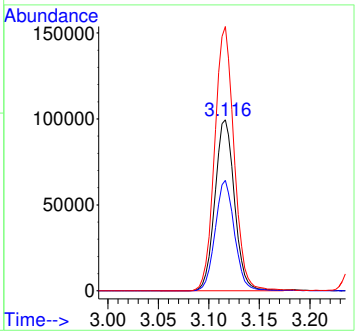


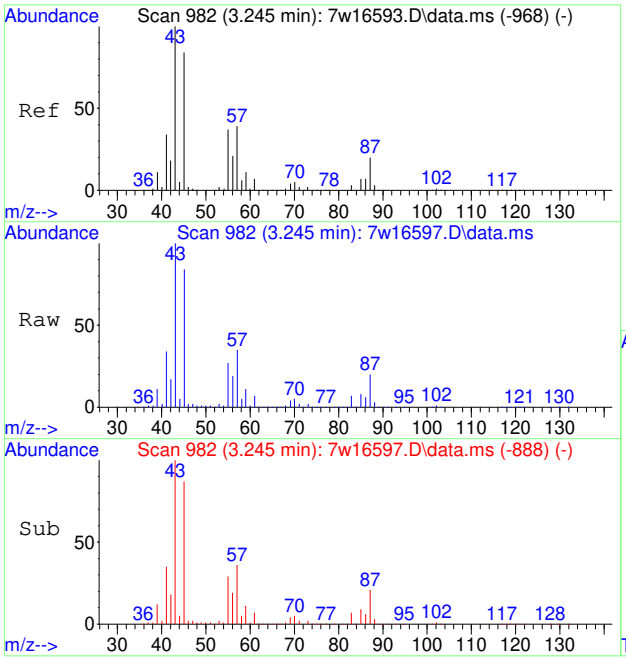


#42
CIS-1,2-DICHLOROETHENE
Concen: 10.92 PPBV
RT: 3.116 min Scan# 942
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 96 Resp: 133909

Ion	Ratio	Lower	Upper
96	100		
98	63.8	44.7	83.1
61	153.4	107.3	199.3

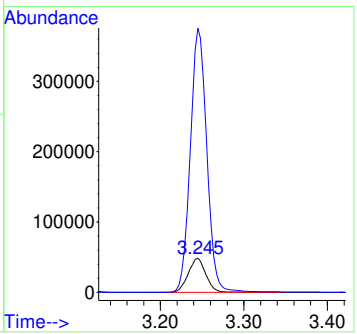


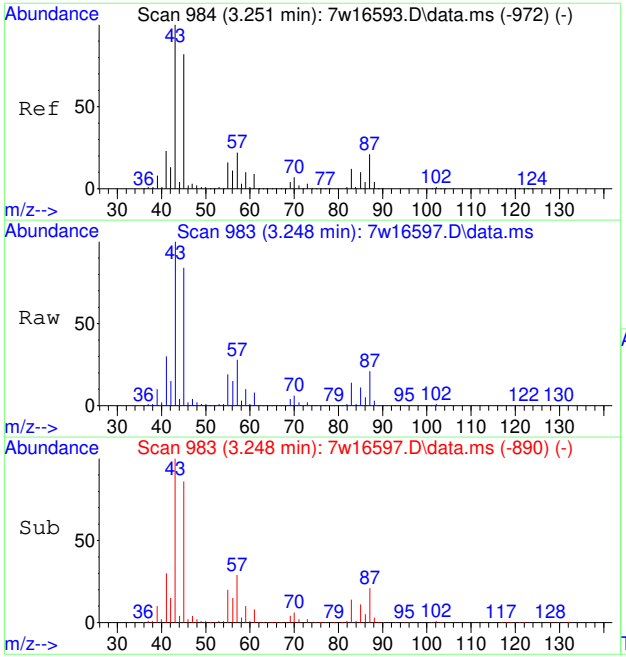


#43
DIISOPROPYL ETHER
Concen: 11.12 PPBV
RT: 3.245 min Scan# 982
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 59 Resp: 71425

Ion	Ratio	Lower	Upper
59	100		
45	726.0	517.6	961.2

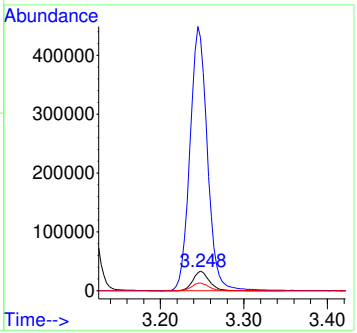


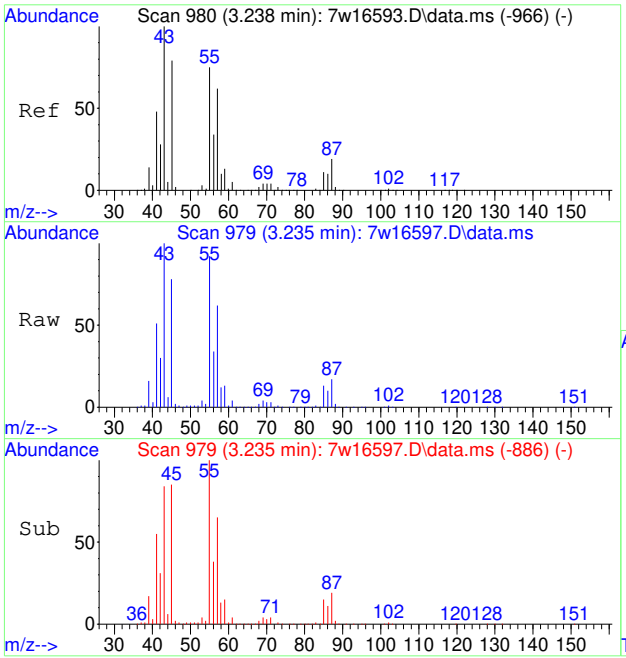


#44
ETHYL ACETATE
Concen: 10.62 PPBV
RT: 3.248 min Scan# 983
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 61 Resp: 46105

Ion	Ratio	Lower	Upper
61	100		
43	1420.7	955.4	1774.4
88	41.4	27.6	51.2

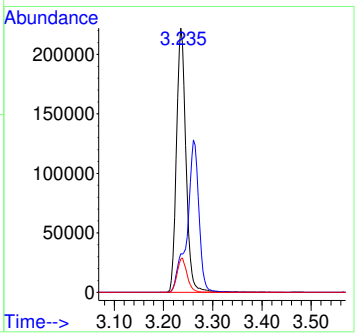


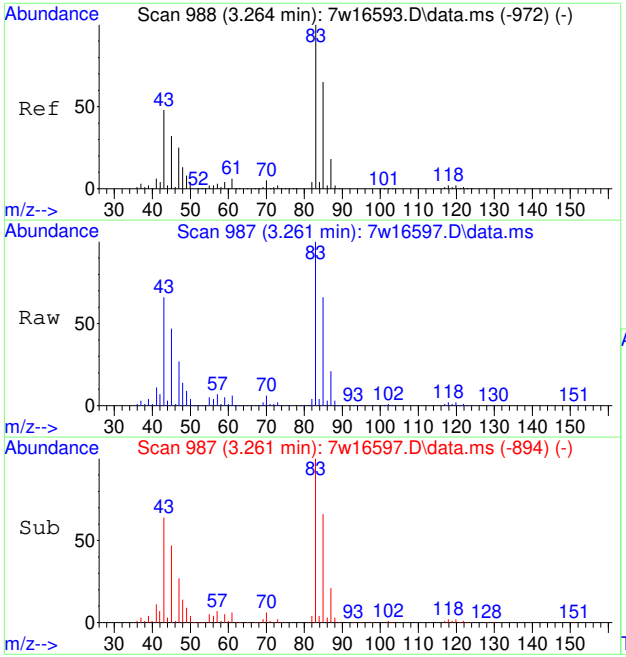


#45
METHYL ACRYLATE
Concen: 10.90 PPBV
RT: 3.235 min Scan# 979
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 298658

Ion	Ratio	Lower	Upper
55	100		
85	0.0	0.0	0.0
58	13.7	9.7	17.9

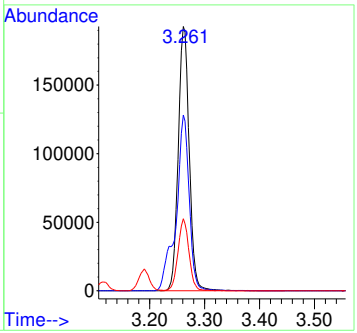


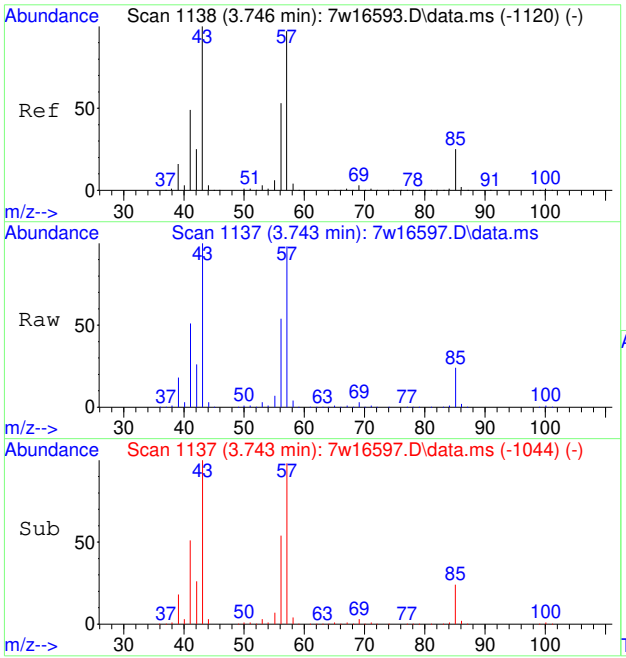


#46
CHLOROFORM
Concen: 11.35 PPBV
RT: 3.261 min Scan# 987
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 268569

Ion	Ratio	Lower	Upper
83	100		
85	79.6	56.0	104.0
47	27.5	19.0	35.4

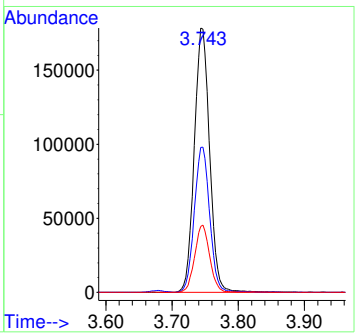


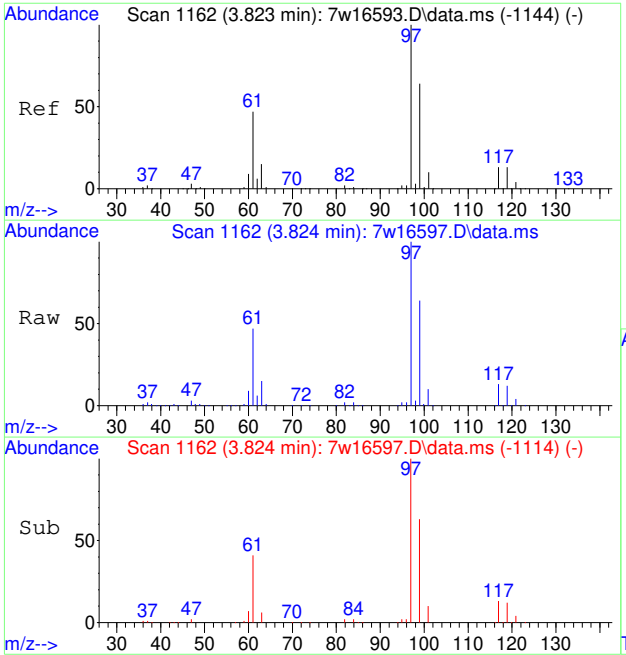


#47
2,4-DIMETHYLPENTANE
Concen: 11.35 PPBV
RT: 3.743 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 287870

Ion	Ratio	Lower	Upper
57	100		
56	55.4	38.4	71.2
85	25.0	17.5	32.5

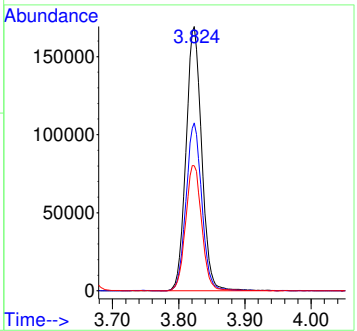


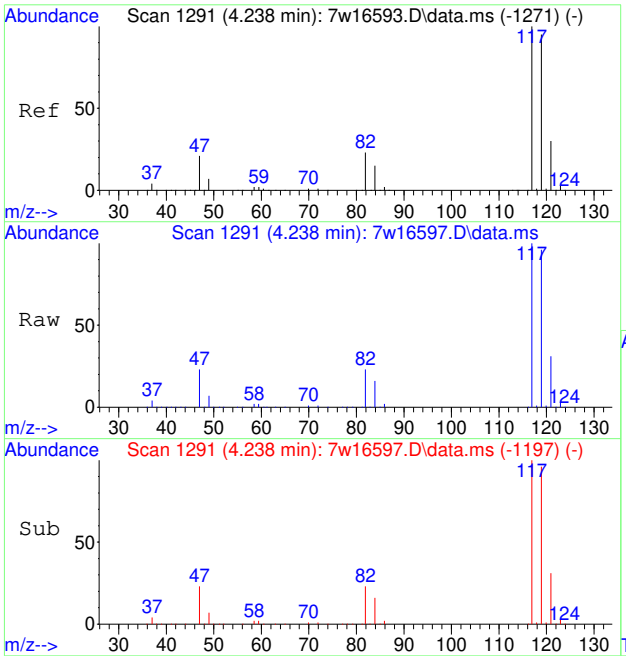


#48
1,1,1-TRICHLOROETHANE
Concen: 11.20 PPBV
RT: 3.824 min Scan# 1162
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 97 Resp: 279200

Ion	Ratio	Lower	Upper
97	100		
99	63.8	45.0	83.6
61	48.8	34.7	64.5

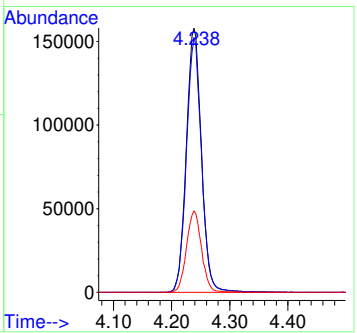


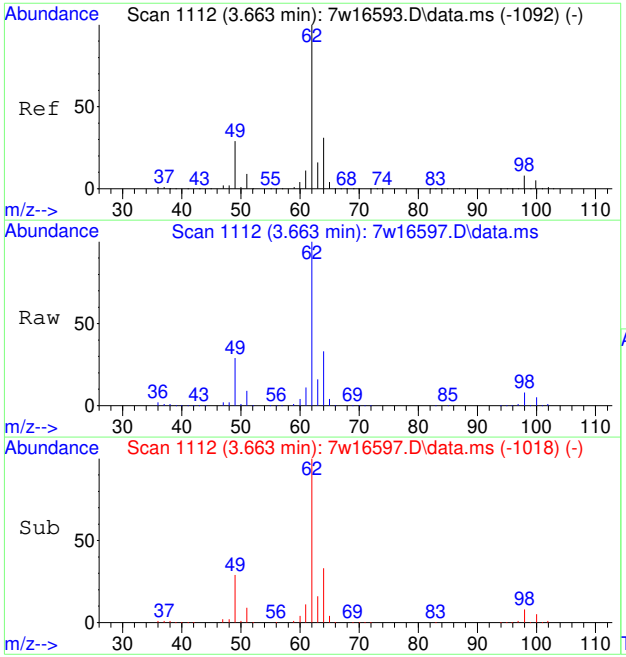


#49
CARBON TETRACHLORIDE
Concen: 11.10 PPBV
RT: 4.238 min Scan# 1291
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 286618

Ion	Ratio	Lower	Upper
117	100		
119	95.8	67.5	125.3
121	30.7	21.3	39.5

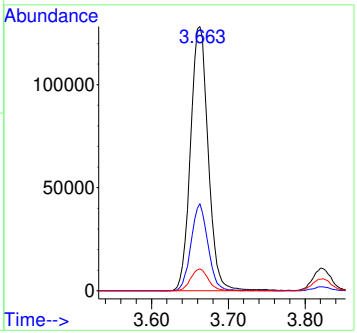


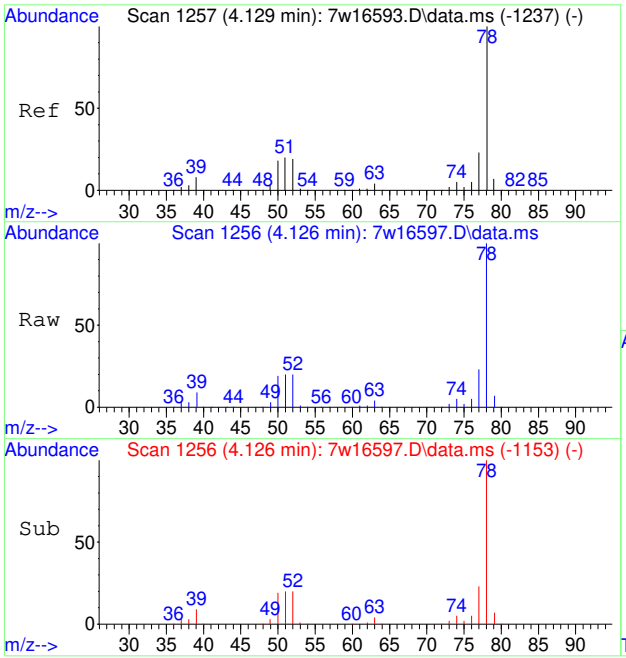


#50
1,2-DICHLOROETHANE
Concen: 11.17 PPBV
RT: 3.663 min Scan# 1112
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 62 Resp: 205457

Ion	Ratio	Lower	Upper
62	100		
64	31.4	21.8	40.6
98	8.3	5.8	10.8

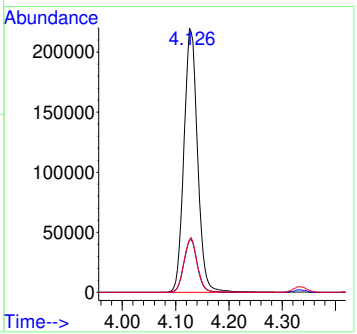


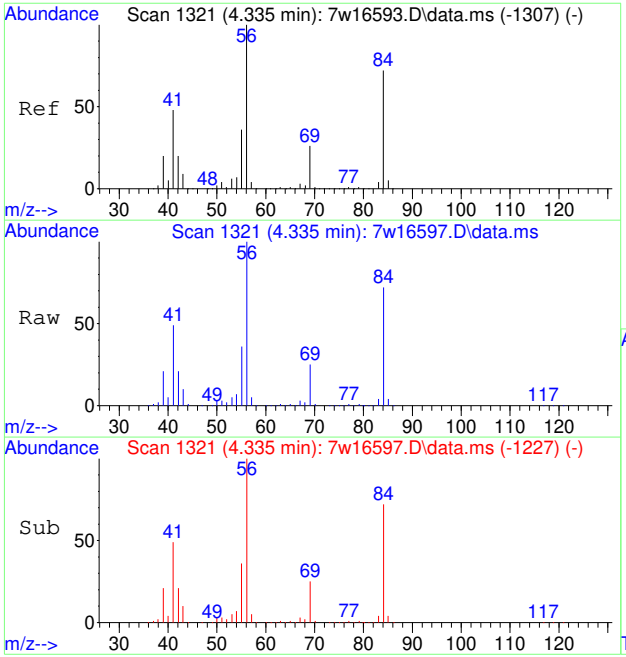


#51
BENZENE
Concen: 10.80 PPBV
RT: 4.126 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 78 Resp: 392045

Ion	Ratio	Lower	Upper
78	100		
52	19.8	0.0	49.9
51	20.3	0.0	50.6

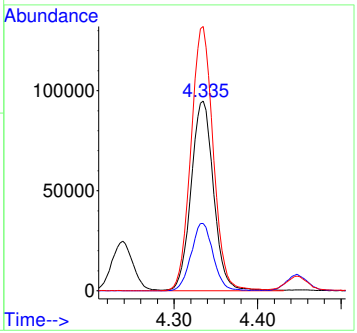


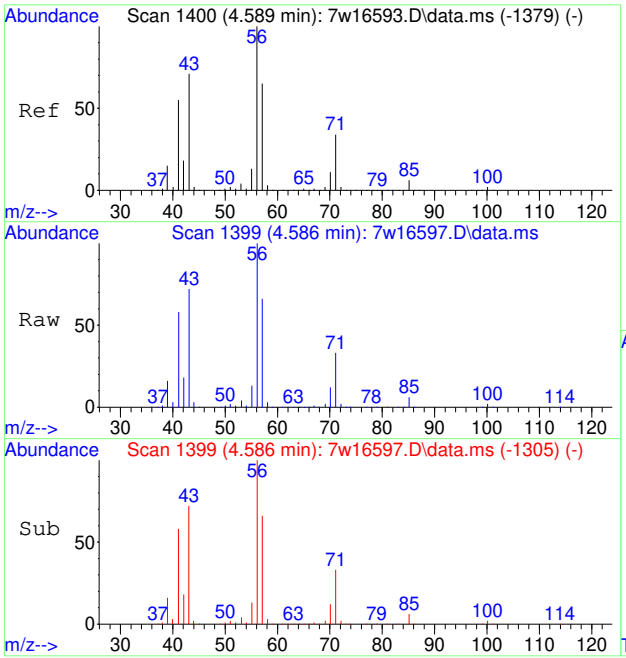


#53
CYCLOHEXANE
Concen: 11.13 PPBV
RT: 4.335 min Scan# 1321
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 84 Resp: 178042

Ion	Ratio	Lower	Upper
84	100		
69	34.9	24.6	45.6
56	137.7	96.4	179.0

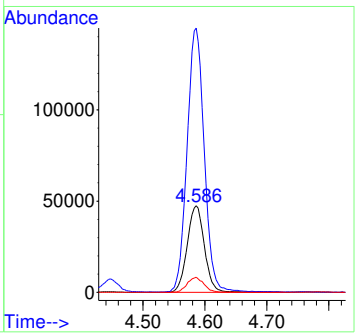


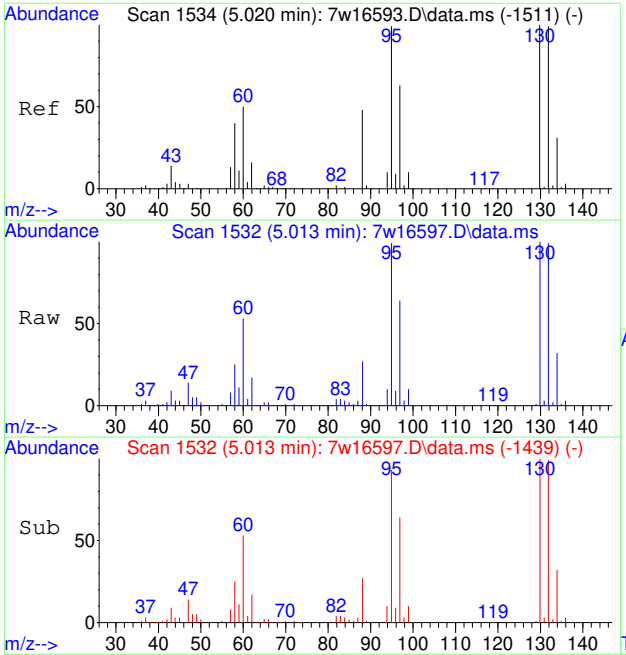


#54
2,3-DIMETHYLPENTANE
Concen: 11.55 PPBV
RT: 4.586 min Scan# 1399
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 71 Resp: 92136

Ion	Ratio	Lower	Upper
71	100		
56	303.3	213.2	396.0
85	17.0	12.2	22.6

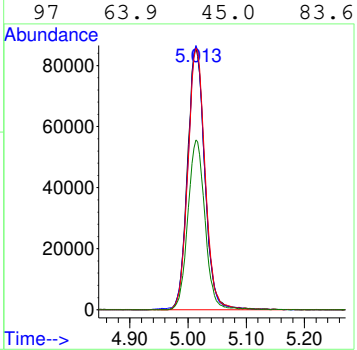


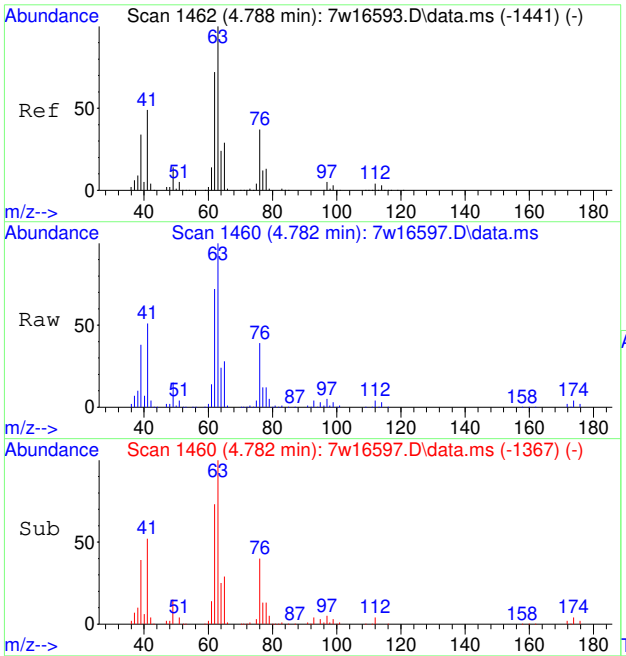


#55
TRICHLOROETHENE
Concen: 10.41 PPBV
RT: 5.013 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 95 Resp: 177553

Ion	Ratio	Lower	Upper
95	100		
130	99.6	69.4	129.0
132	99.5	69.4	128.8
97	63.9	45.0	83.6

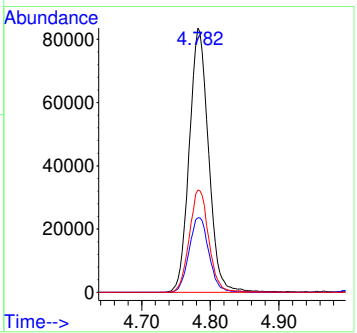


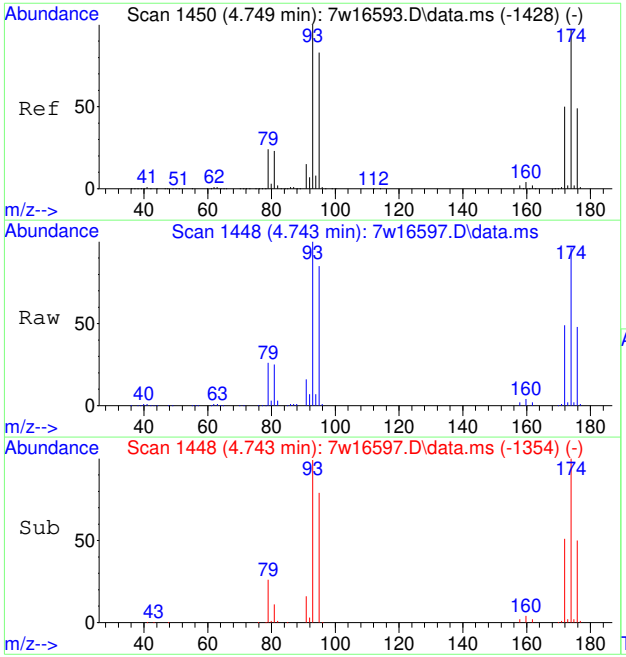


#56
1,2-DICHLOROPROPANE
Concen: 10.84 PPBV
RT: 4.782 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 63 Resp: 163448

Ion	Ratio	Lower	Upper
63	100		
65	29.3	20.5	38.1
76	39.1	27.1	50.3

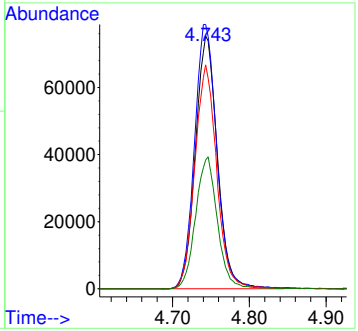


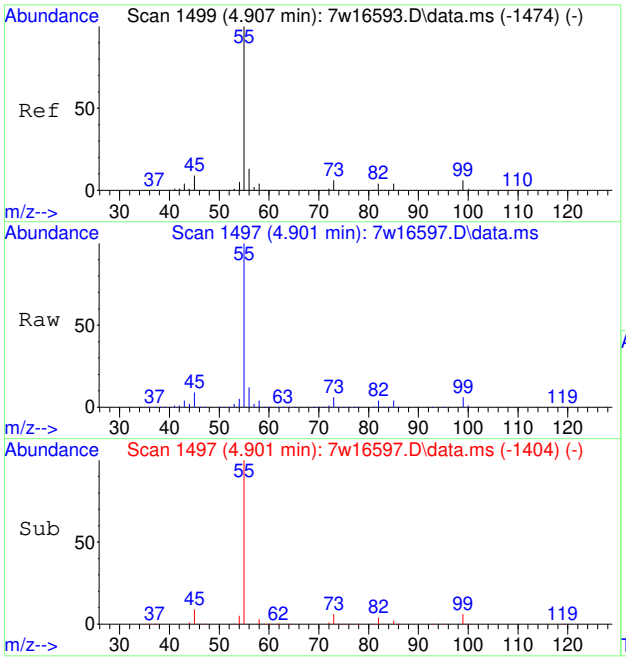


#57
DIBROMOMETHANE
Concen: 10.35 PPBV
RT: 4.743 min Scan# 1448
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:174 Resp: 150387

Ion	Ratio	Lower	Upper
174	100		
93	106.5	75.3	139.9
95	88.3	62.4	115.8
172	51.7	36.6	68.0

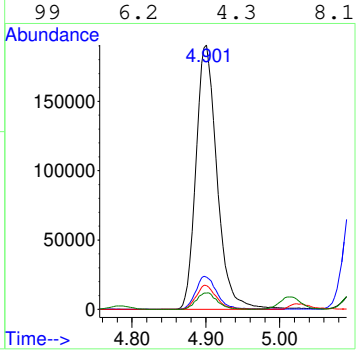


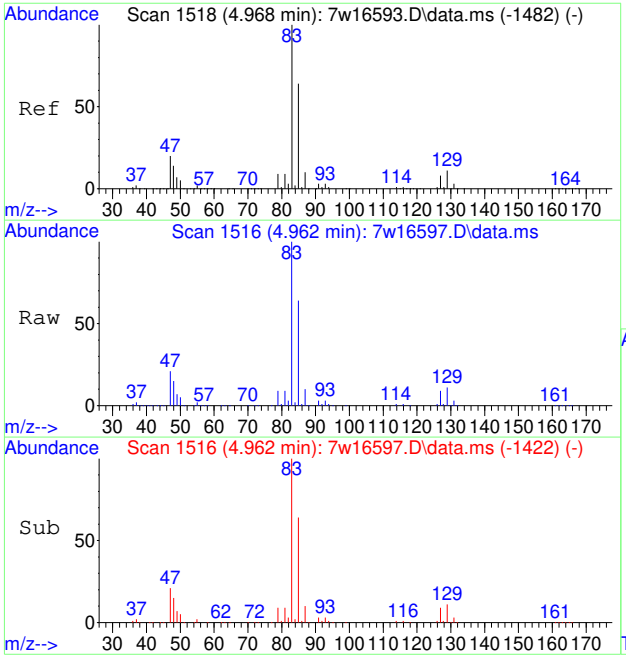


#58
ETHYL ACRYLATE
Concen: 11.17 PPBV
RT: 4.901 min Scan# 1497
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 55 Resp: 376913

Ion	Ratio	Lower	Upper
55	100		
56	12.7	9.1	16.9
45	8.8	6.1	11.3
99	6.2	4.3	8.1

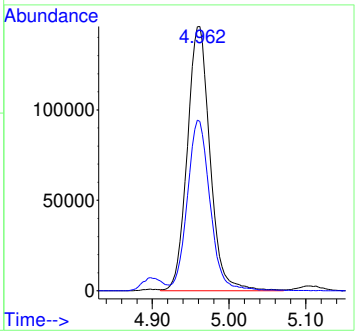


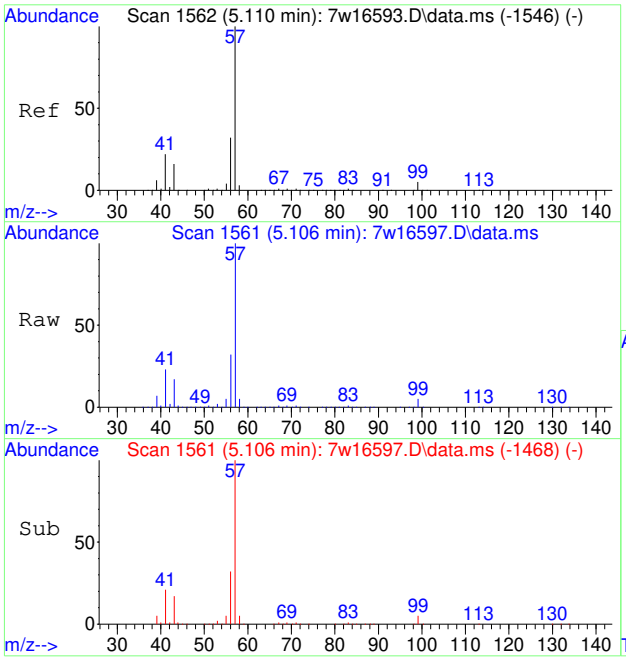


#59
BROMODICHLOROMETHANE
Concen: 10.90 PPBV
RT: 4.962 min Scan# 1516
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 300258

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.6	84.8

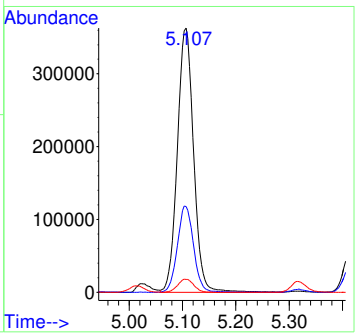


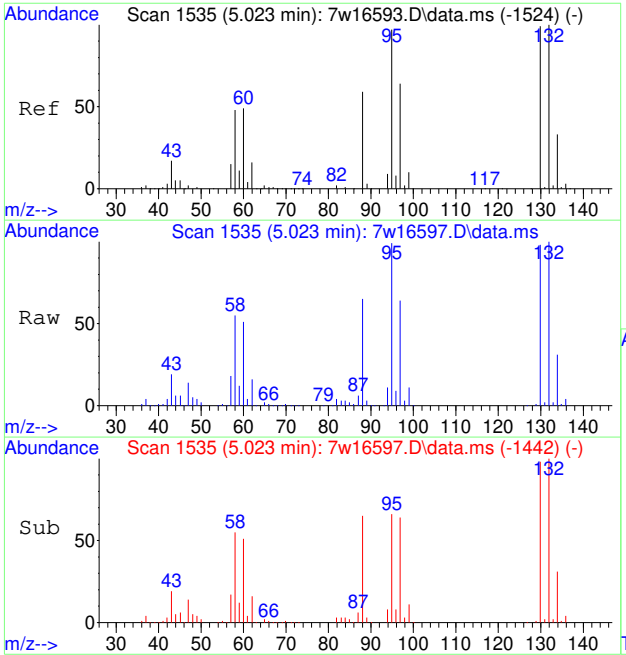


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.43 PPBV
RT: 5.106 min Scan# 1561
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 57 Resp: 770282

Ion	Ratio	Lower	Upper
57	100		
56	32.5	22.6	42.0
99	5.0	3.6	6.8

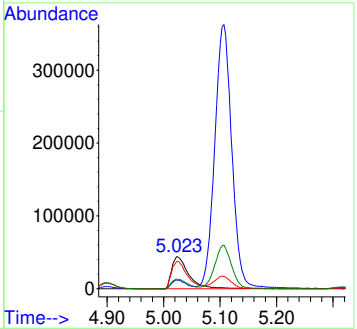


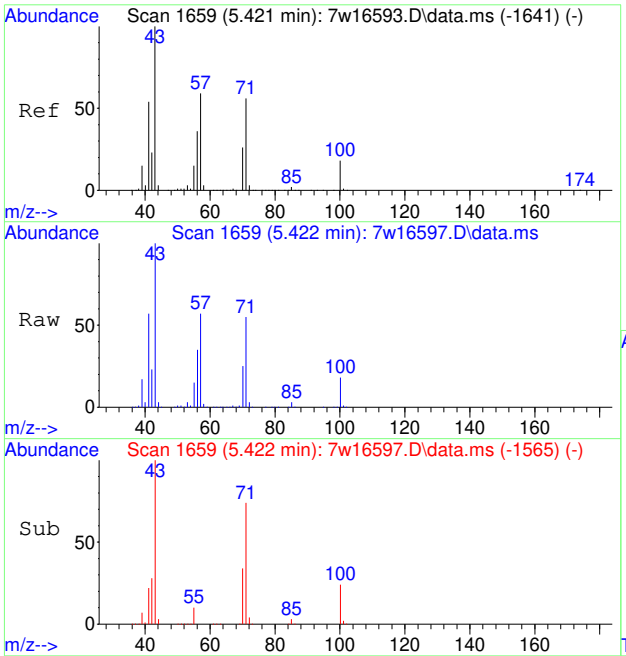


#61
1,4-DIOXANE
Concen: 11.72 PPBV
RT: 5.023 min Scan# 1535
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 88 Resp: 94601

Ion	Ratio	Lower	Upper
88	100		
57	23.9	16.7	30.9
58	77.5	52.4	97.4
43	26.8	18.5	34.3

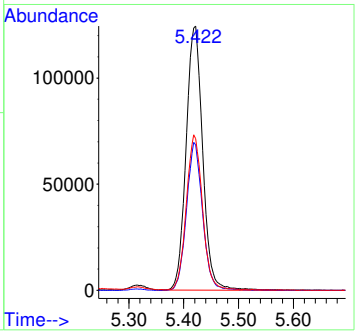


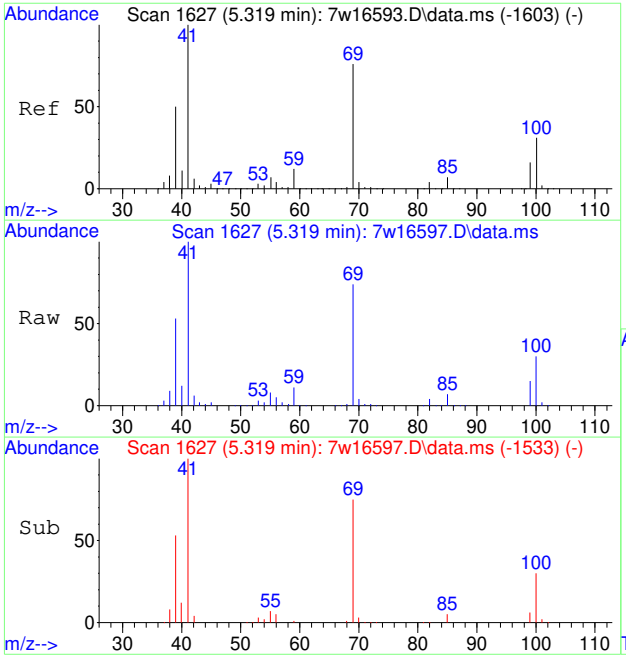


#62
HEPTANE
Concen: 10.72 PPBV
RT: 5.422 min Scan# 1659
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 261506

Ion	Ratio	Lower	Upper
43	100		
71	54.5	38.9	72.2
57	57.7	40.5	75.3

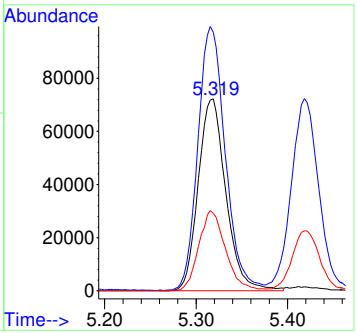


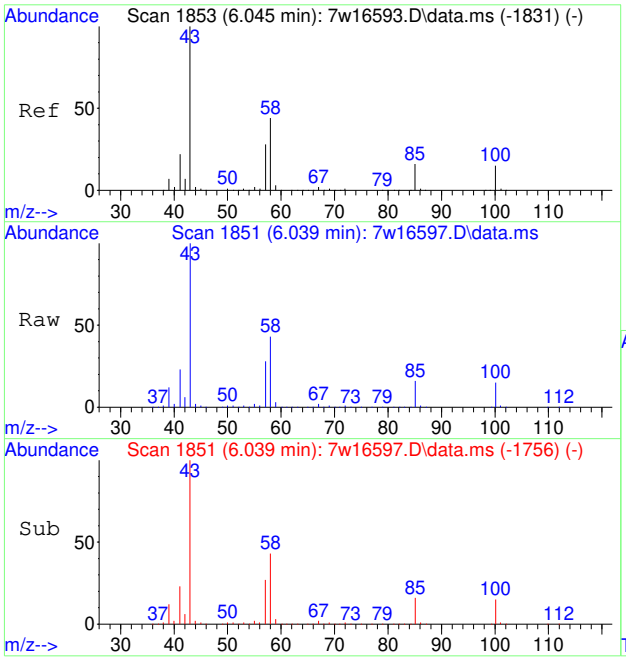


#63
METHYL METHACRYLATE
Concen: 11.09 PPBV
RT: 5.319 min Scan# 1627
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 152007

Ion	Ratio	Lower	Upper
69	100		
41	135.8	95.5	177.4
100	40.4	28.1	52.1

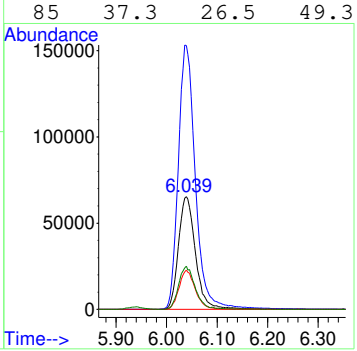


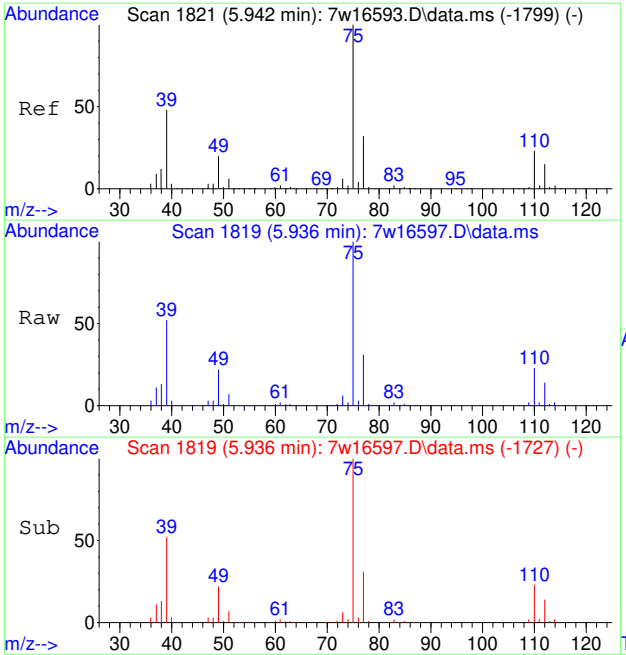


#64
METHYL ISOBUTYL KETONE
Concen: 10.57 PPBV
RT: 6.039 min Scan# 1851
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 154590

Ion	Ratio	Lower	Upper
58	100		
43	234.3	163.8	304.2
100	33.6	23.2	43.2
85	37.3	26.5	49.3

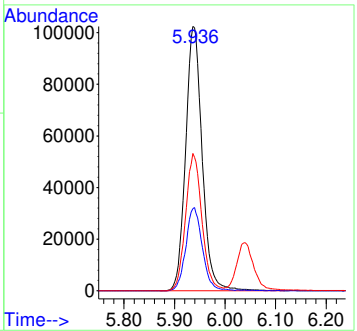


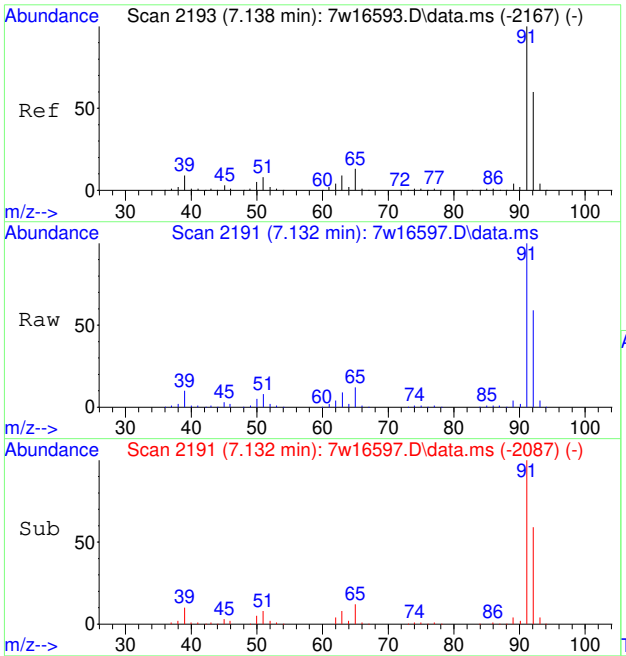


#65
CIS-1,3-DICHLOROPROPENE
Concen: 10.11 PPBV
RT: 5.936 min Scan# 1819
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 233811

Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	41.0
39	51.1	35.7	66.3

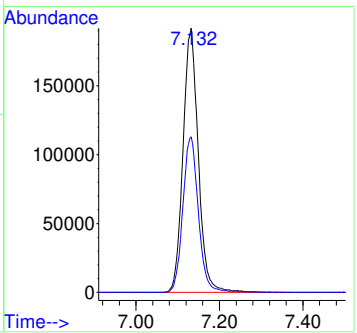


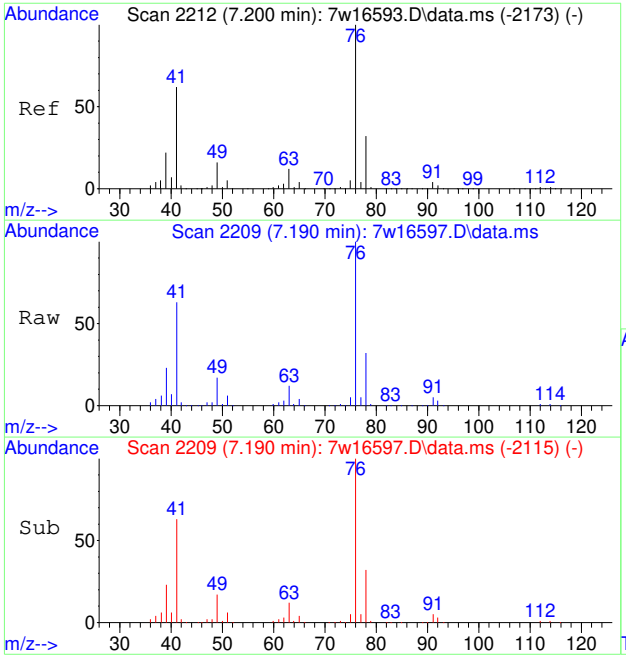


#66
TOLUENE
Concen: 11.25 PPBV
RT: 7.132 min Scan# 2191
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 488543

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.3	90.3

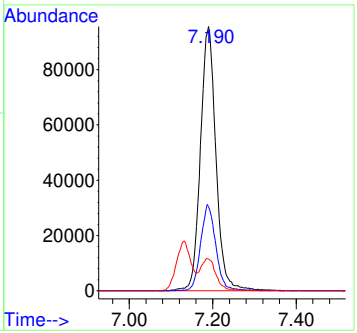


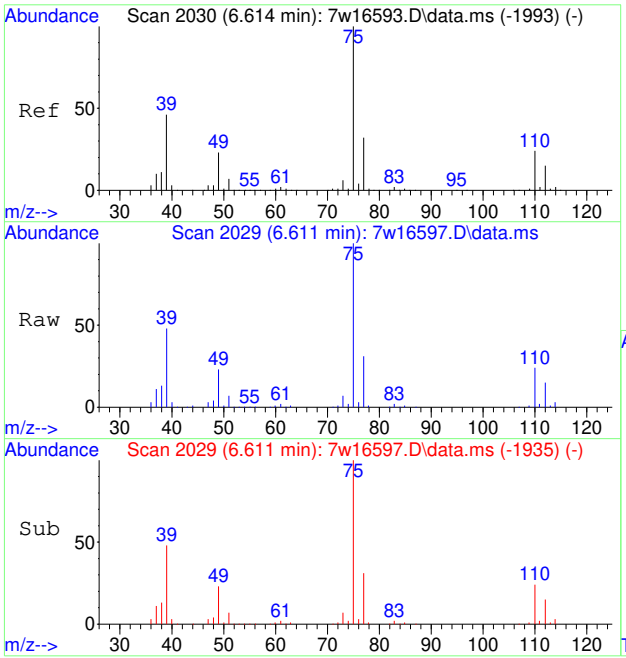


#67
1,3-DICHLOROPROPANE
Concen: 11.34 PPBV
RT: 7.190 min Scan# 2209
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 76 Resp: 246988

Ion	Ratio	Lower	Upper
76	100		
78	32.0	22.4	41.6
63	12.0	8.3	15.5

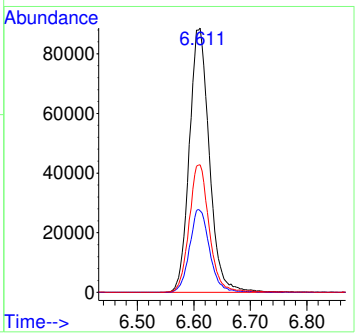


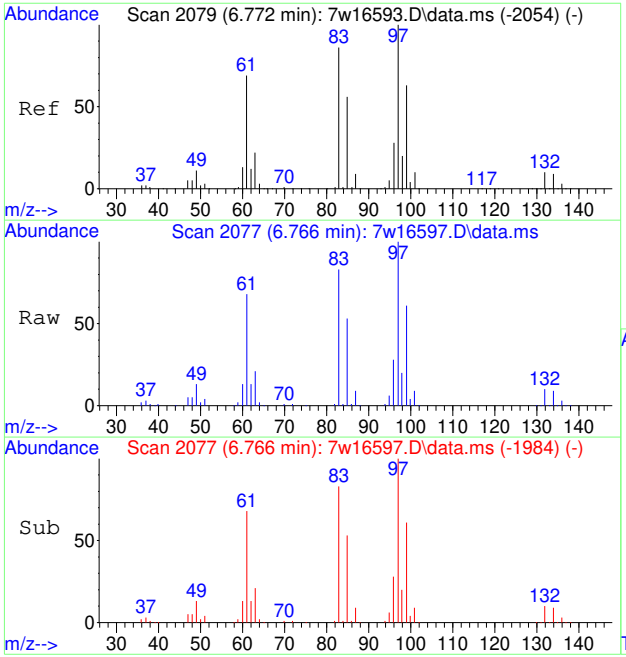


#68
TRANS-1,3-DICHLOROPROPENE
Concen: 10.42 PPBV
RT: 6.611 min Scan# 2029
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 217661

Ion	Ratio	Lower	Upper
75	100		
77	31.6	22.3	41.5
39	48.8	33.9	63.0

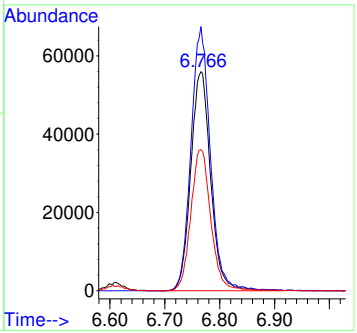


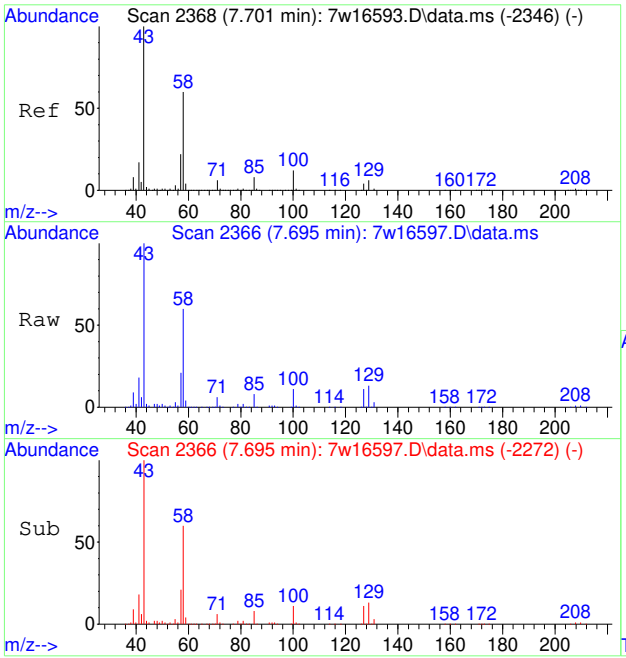


#69
1,1,2-TRICHLOROETHANE
Concen: 11.44 PPBV
RT: 6.766 min Scan# 2077
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 141620

Ion	Ratio	Lower	Upper
83	100		
97	117.7	81.2	150.8
85	64.6	45.1	83.7

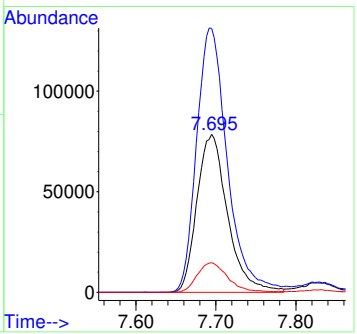


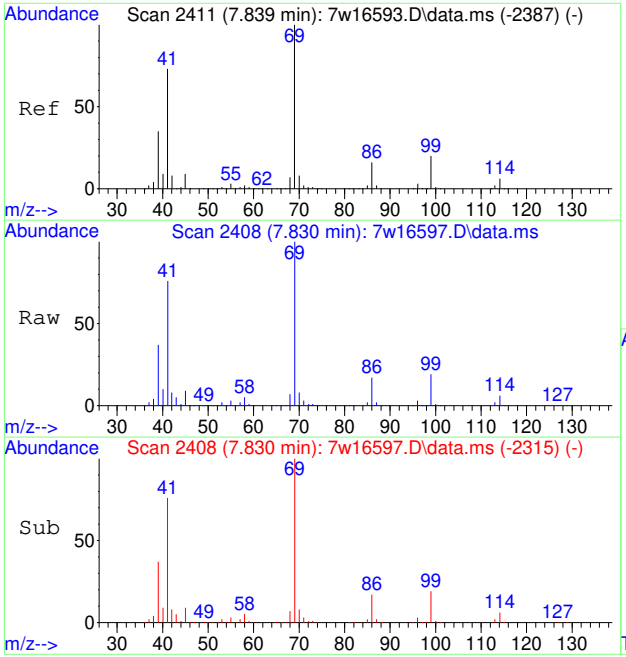


#70
2-HEXANONE
Concen: 10.26 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 58 Resp: 209349

Ion	Ratio	Lower	Upper
58	100		
43	167.7	118.6	220.2
100	19.1	13.0	24.2

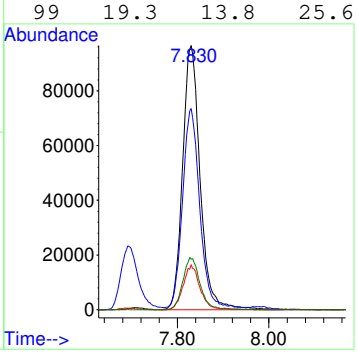


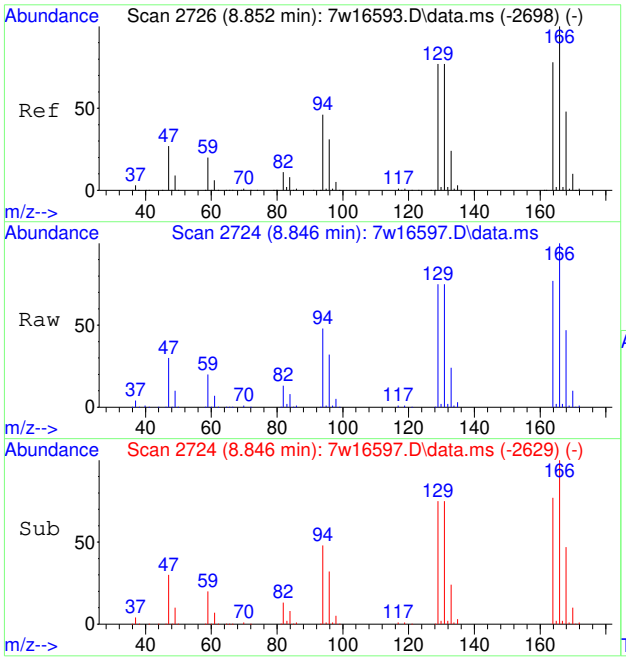


#71
ETHYL METHACRYLATE
Concen: 11.23 PPBV
RT: 7.830 min Scan# 2408
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 69 Resp: 256728

Ion	Ratio	Lower	Upper
69	100		
41	75.7	53.6	99.6
86	16.4	11.3	20.9
99	19.3	13.8	25.6

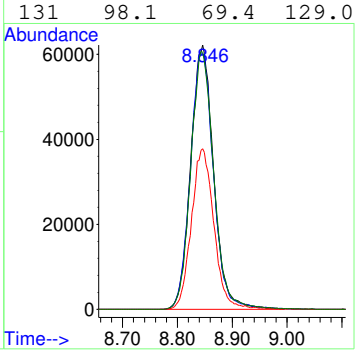


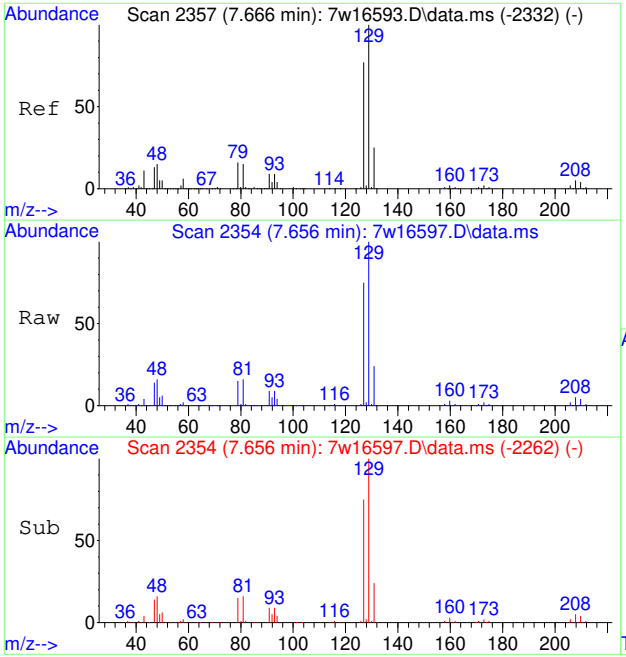


#72
TETRACHLOROETHENE
Concen: 11.40 PPBV
RT: 8.846 min Scan# 2724
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:164 Resp: 180607

Ion	Ratio	Lower	Upper
164	100		
129	98.9	69.6	129.2
168	60.0	42.5	78.9
131	98.1	69.4	129.0

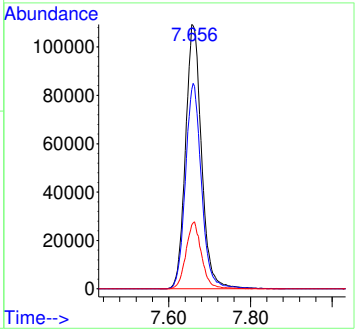


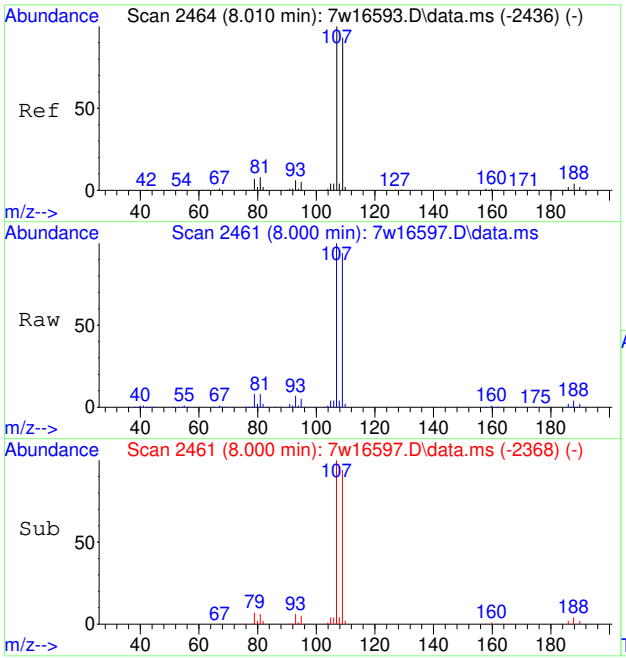


#73
DIBROMOCHLOROMETHANE
Concen: 11.82 PPBV
RT: 7.656 min Scan# 2354
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:129 Resp: 297263

Ion	Ratio	Lower	Upper
129	100		
127	77.7	54.7	101.7
131	24.7	17.4	32.4

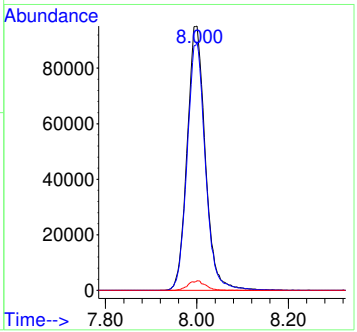


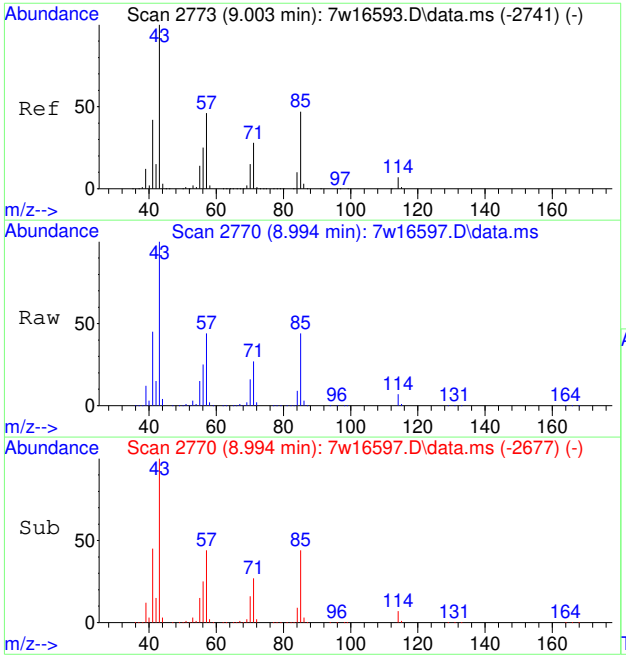


#74
1,2-DIBROMOETHANE
Concen: 11.75 PPBV
RT: 8.000 min Scan# 2461
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:107 Resp: 263017

Ion	Ratio	Lower	Upper
107	100		
109	94.1	66.1	122.8
188	3.5	2.5	4.6

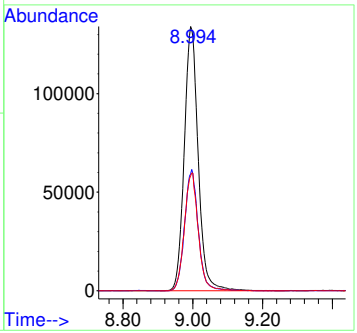


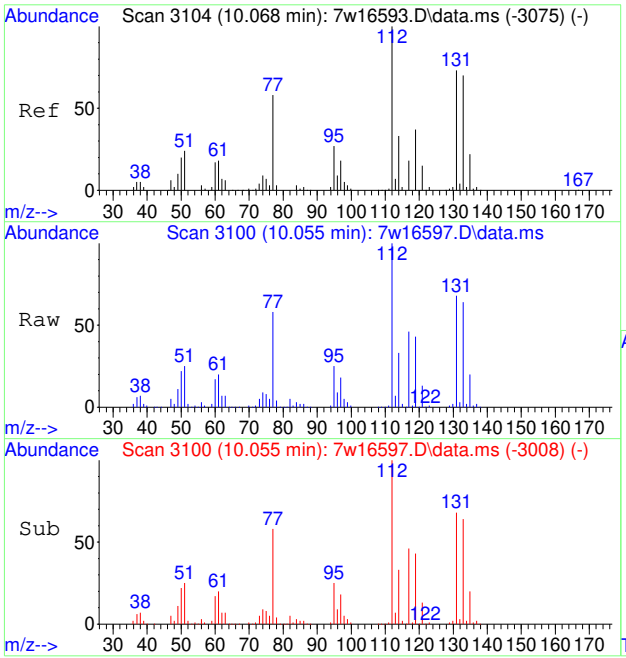


#75
OCTANE
Concen: 11.38 PPBV
RT: 8.994 min Scan# 2770
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 371823

Ion	Ratio	Lower	Upper
43	100		
85	45.2	31.8	59.0
57	44.5	31.4	58.2

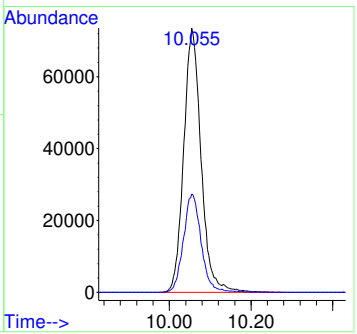


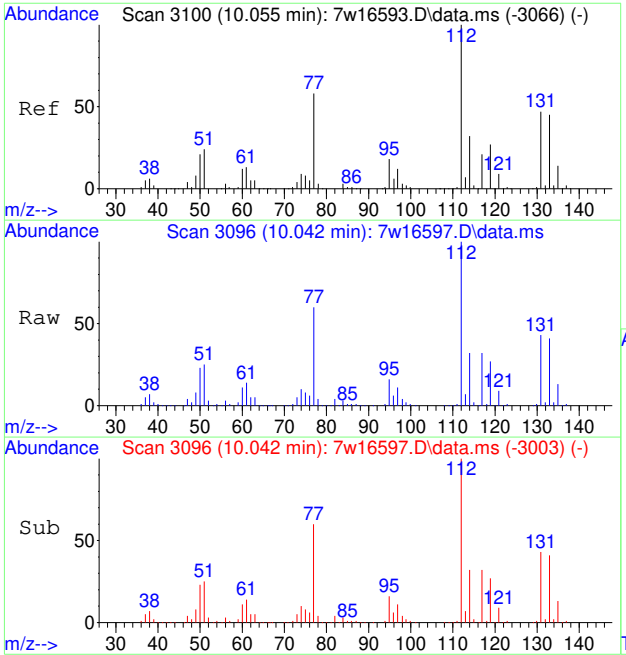


#77
1,1,1,2-TETRACHLOROETHANE
Concen: 12.09 PPBV
RT: 10.055 min Scan# 3100
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:131 Resp: 217186

Ion	Ratio	Lower	Upper
131	100		
95	38.0	26.5	49.1

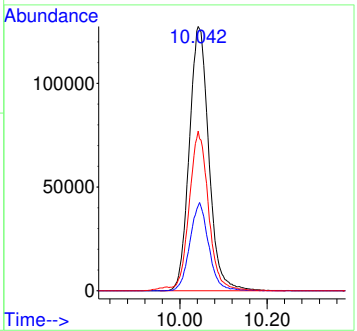


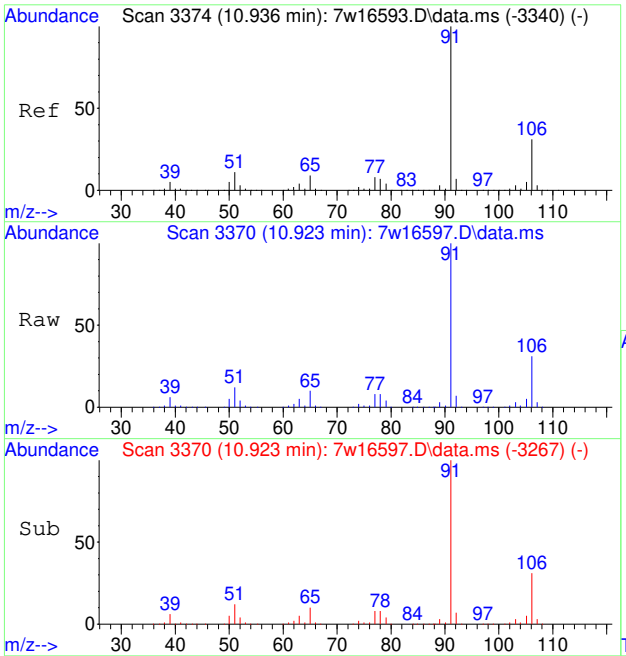


#78
CHLOROBENZENE
Concen: 11.61 PPBV
RT: 10.042 min Scan# 3096
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:112 Resp: 397219

Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.7
77	60.4	42.1	78.1

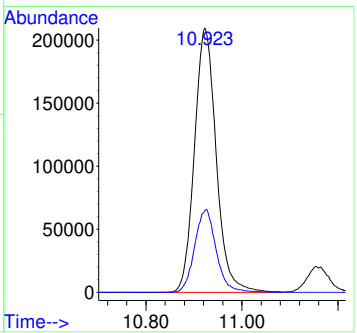


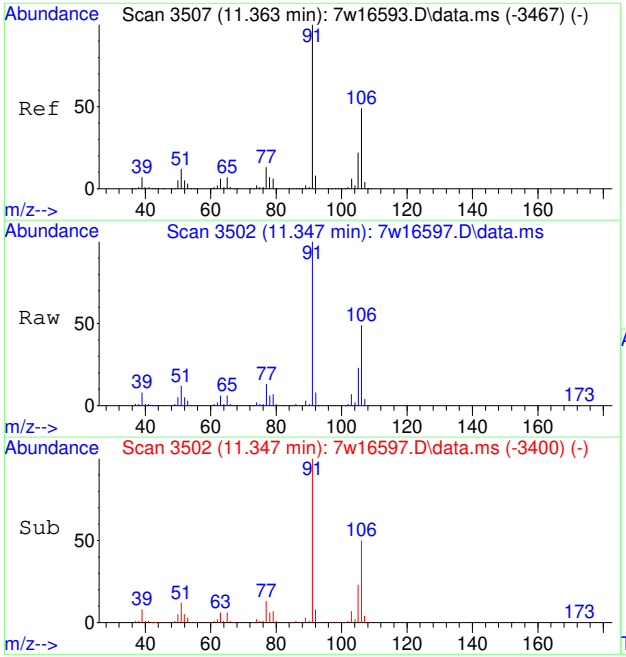


#79
ETHYLBENZENE
Concen: 11.76 PPBV
RT: 10.923 min Scan# 3370
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 659125

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.1	61.1

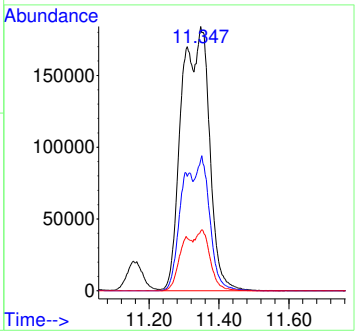


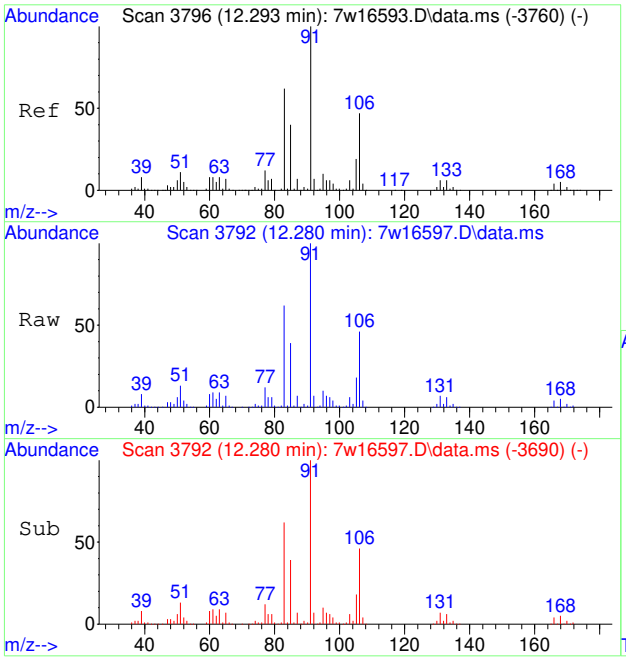


#80
M,P-XYLENE
Concen: 22.50 PPBV
RT: 11.347 min Scan# 3502
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 1021629

Ion	Ratio	Lower	Upper
91	100		
106	26.0	0.0	56.1
105	13.3	0.0	42.1

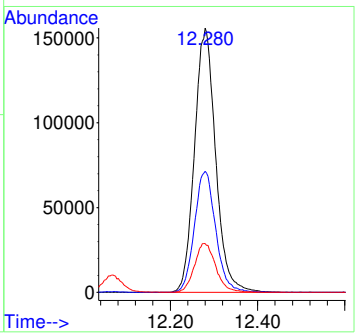


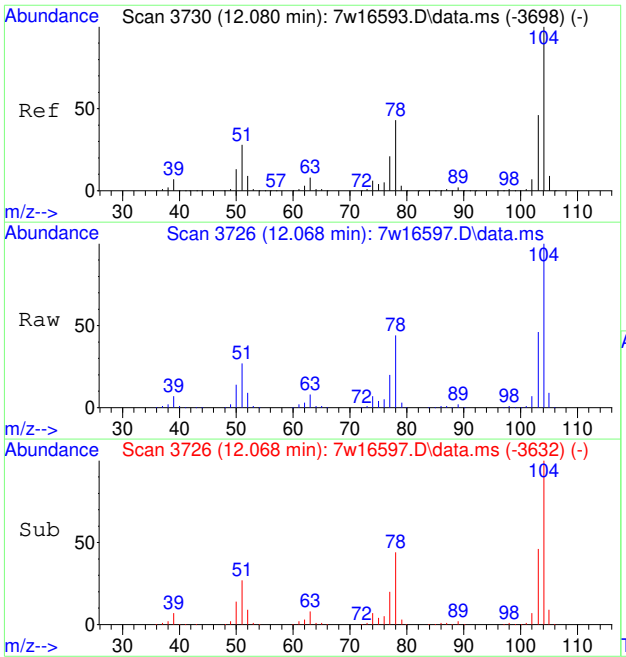


#81
O-XYLENE
Concen: 11.89 PPBV
RT: 12.280 min Scan# 3792
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 524115

Ion	Ratio	Lower	Upper
91	100		
106	45.8	31.8	59.0
105	18.5	13.0	24.2

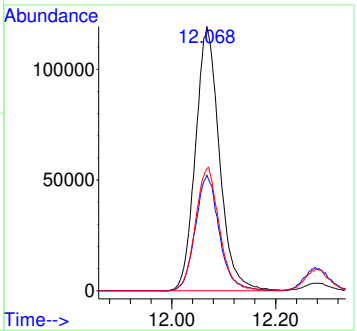


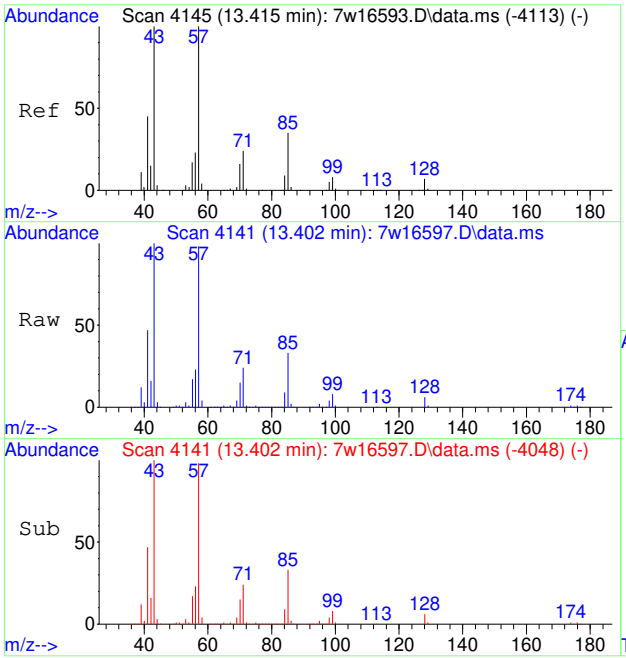


#82
STYRENE
Concen: 11.59 PPBV
RT: 12.068 min Scan# 3726
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:104 Resp: 383070

Ion	Ratio	Lower	Upper
104	100		
78	43.8	30.6	56.8
103	47.0	32.8	61.0

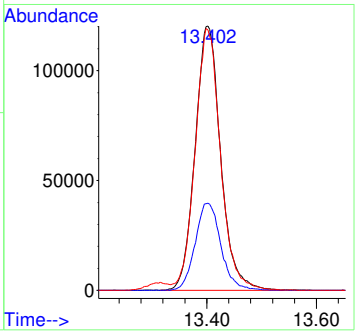


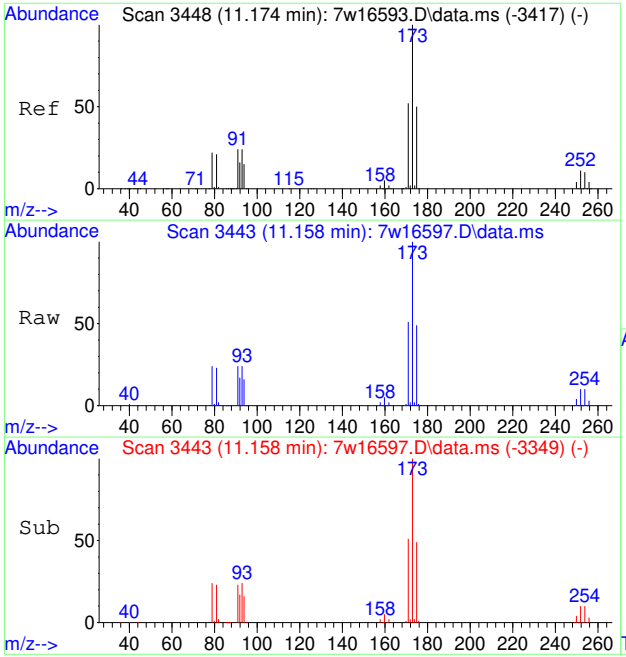


#83
NONANE
Concen: 11.35 PPBV
RT: 13.402 min Scan# 4141
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 43 Resp: 389550

Ion	Ratio	Lower	Upper
43	100		
85	33.3	23.4	43.4
57	98.5	69.2	128.6

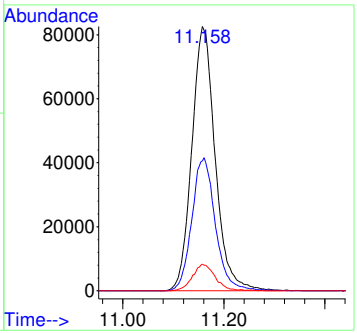


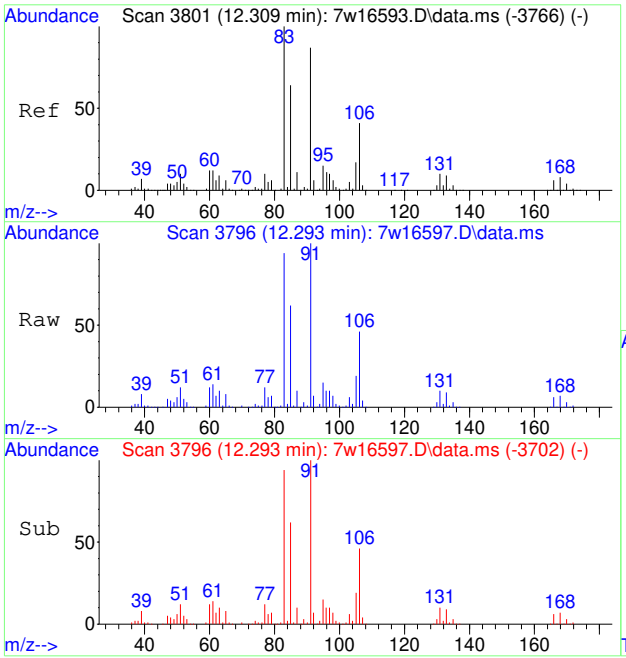


#84
BROMOFORM
Concen: 12.55 PPBV
RT: 11.158 min Scan# 3443
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:173 Resp: 265221

Ion	Ratio	Lower	Upper
173	100		
175	50.7	35.1	65.1
254	9.9	6.7	12.5

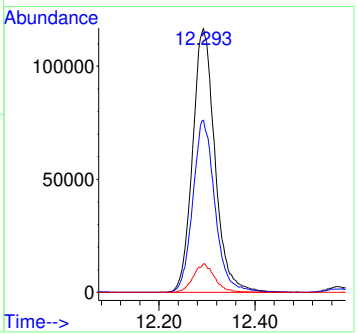


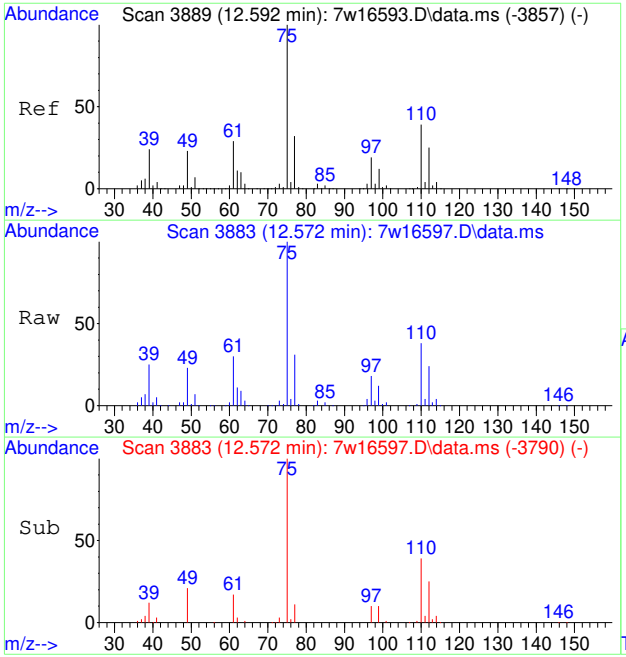


#85
1,1,2,2-TETRACHLOROETHANE
Concen: 11.92 PPBV
RT: 12.293 min Scan# 3796
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 83 Resp: 376337

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.5	84.5
131	10.5	7.3	13.5

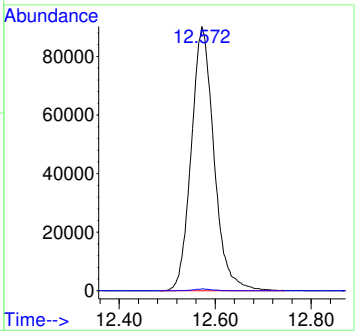


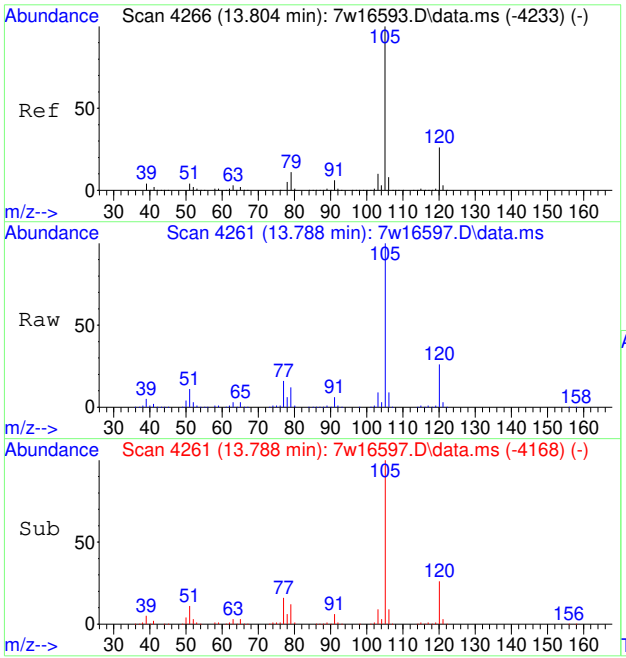


#86
1,2,3-TRICHLOROPROPANE
Concen: 11.97 PPBV
RT: 12.572 min Scan# 3883
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 75 Resp: 296228

Ion	Ratio	Lower	Upper
75	100		
100	0.6	0.4	0.8

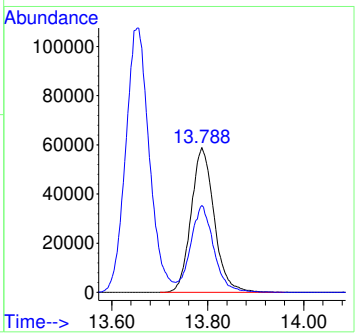


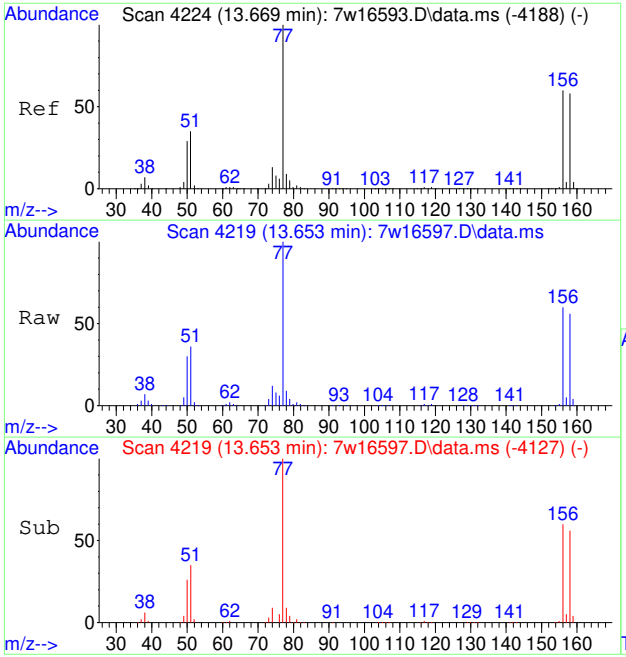


#88
ISOPROPYLBENZENE
Concen: 11.70 PPBV
RT: 13.788 min Scan# 4261
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 196063

Ion	Ratio	Lower	Upper
120	100		
77	60.5	42.5	78.9

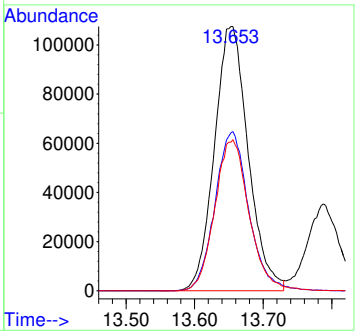


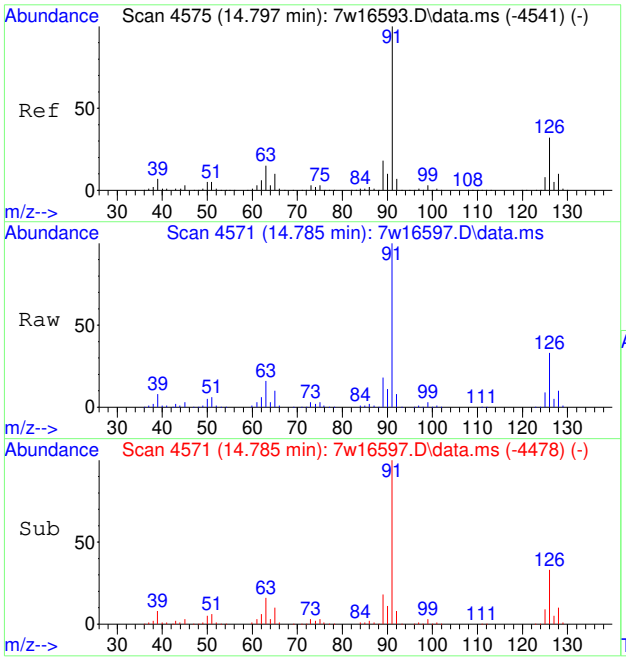


#89
BROMOBENZENE
Concen: 11.46 PPBV
RT: 13.653 min Scan# 4219
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 77 Resp: 368714

Ion	Ratio	Lower	Upper
77	100		
156	60.3	42.4	78.8
158	57.9	40.9	76.0

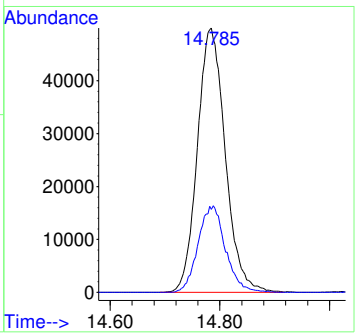


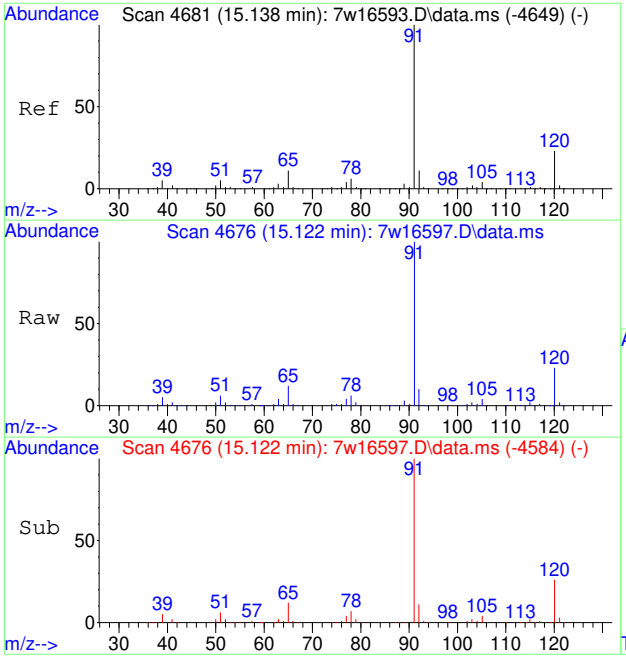


#90
2-CHLOROTOLUENE
Concen: 11.26 PPBV
RT: 14.785 min Scan# 4571
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:126 Resp: 175998

Ion	Ratio	Lower	Upper
126	100		
128	32.2	22.5	41.7

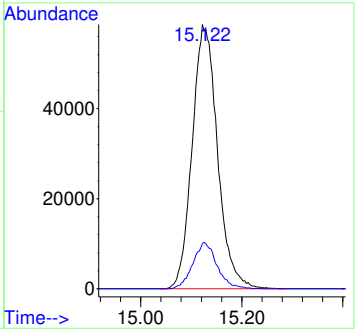


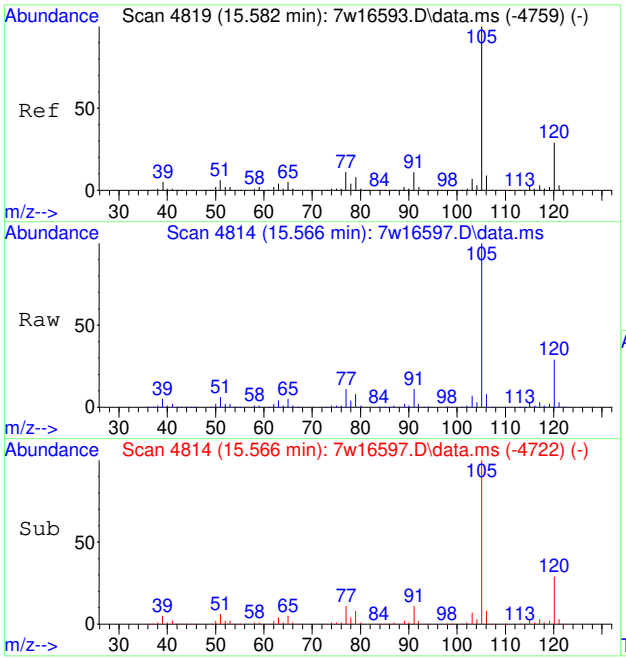


#91
N-PROPYLBENZENE
Concen: 11.48 PPBV
RT: 15.122 min Scan# 4676
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:120 Resp: 204116

Ion	Ratio	Lower	Upper
120	100		
105	16.8	11.5	21.5

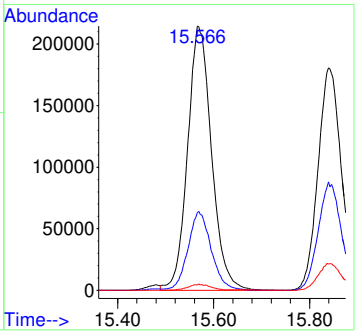


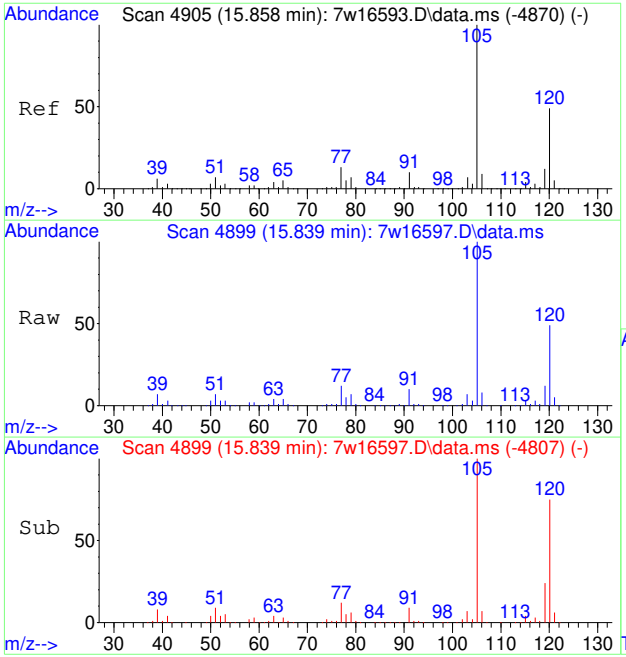


#92
4-ETHYLTOLUENE
Concen: 11.28 PPBV
RT: 15.566 min Scan# 4814
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 742534

Ion	Ratio	Lower	Upper
105	100		
120	29.5	20.7	38.5
119	2.3	1.6	3.0

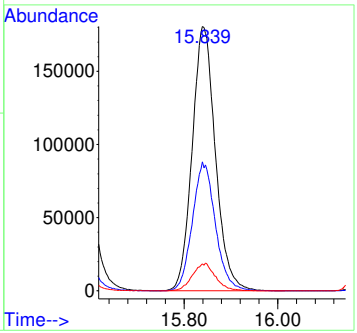


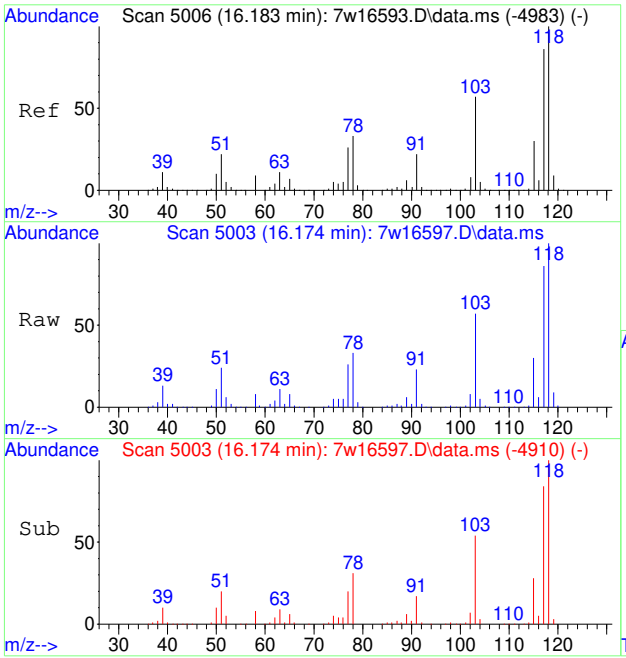


#93
1,3,5-TRIMETHYLBENZENE
Concen: 11.36 PPBV
RT: 15.839 min Scan# 4899
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 622476

Ion	Ratio	Lower	Upper
105	100		
120	48.2	34.0	63.2
91	10.4	7.3	13.7

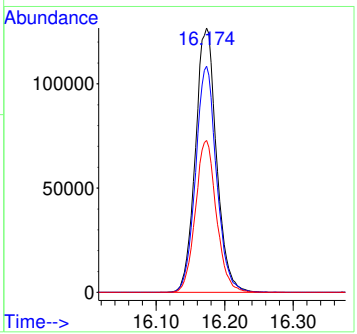


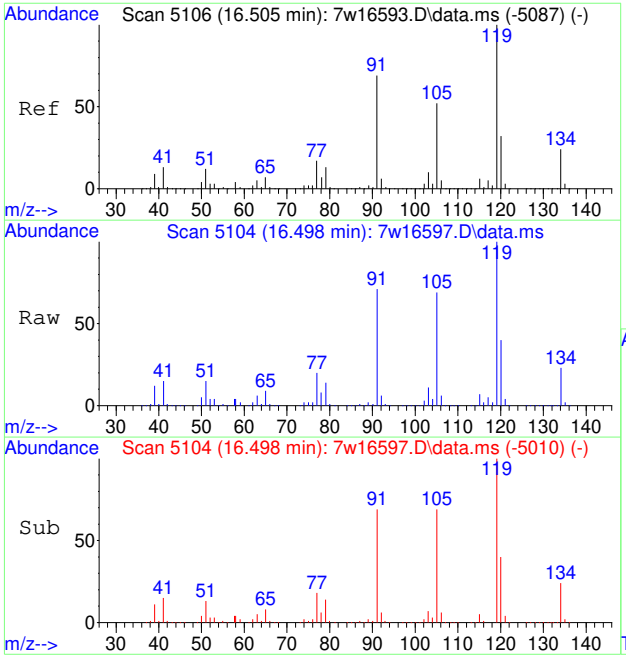


#94
ALPHA-METHYLSTYRENE
Concen: 10.00 PPBV
RT: 16.174 min Scan# 5003
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:118 Resp: 271625

Ion	Ratio	Lower	Upper
118	100		
117	84.6	59.6	110.8
103	57.1	40.3	74.9

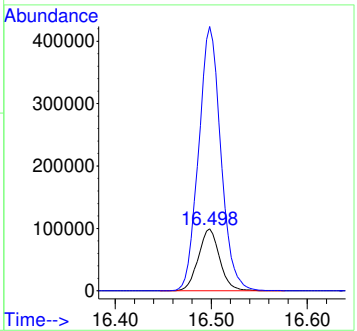


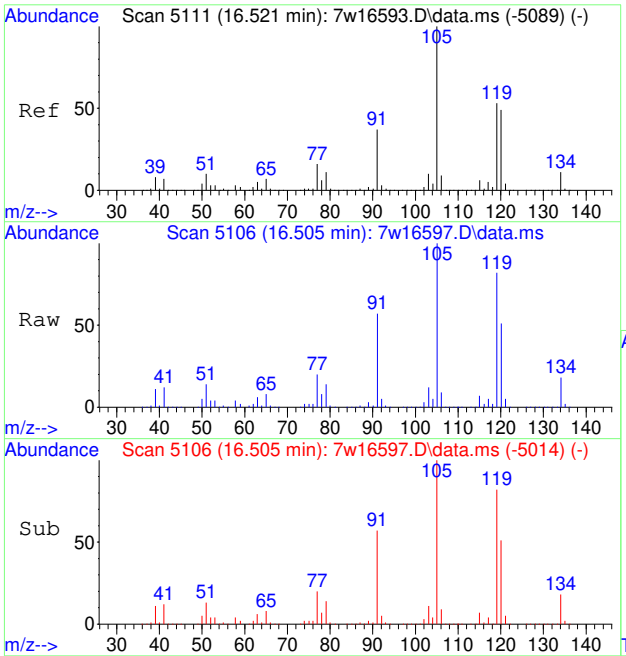


#95
TERT-BUTYLBENZENE
Concen: 11.43 PPBV
RT: 16.498 min Scan# 5104
Delta R.T. 0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 152633

Ion	Ratio	Lower	Upper
134	100		
119	446.8	311.3	578.1

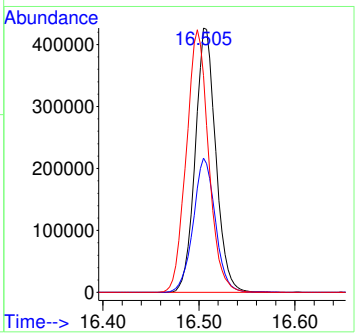


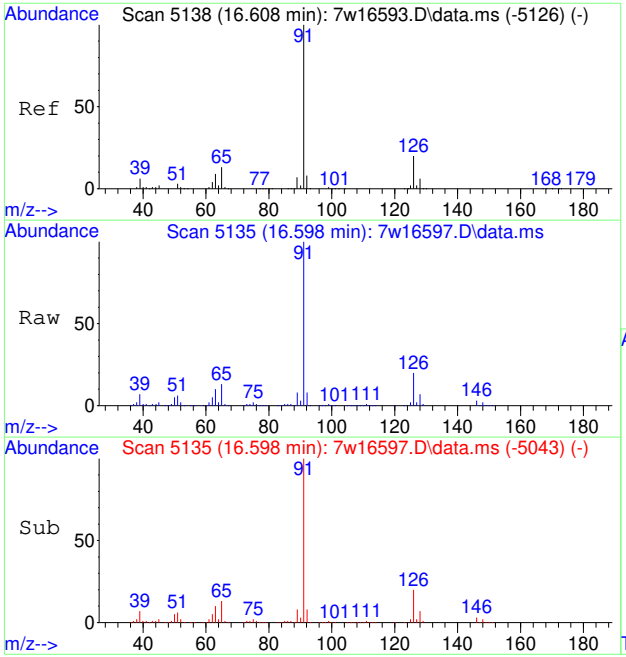


#96
1,2,4-TRIMETHYLBENZENE
Concen: 11.67 PPBV
RT: 16.505 min Scan# 5106
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 633879

Ion	Ratio	Lower	Upper
105	100		
120	54.8	37.9	70.5
119	107.6	74.3	137.9

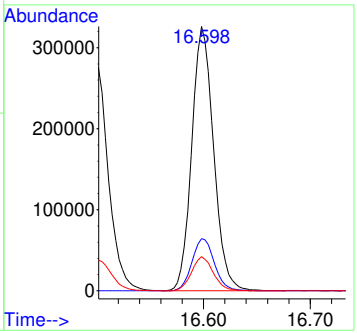


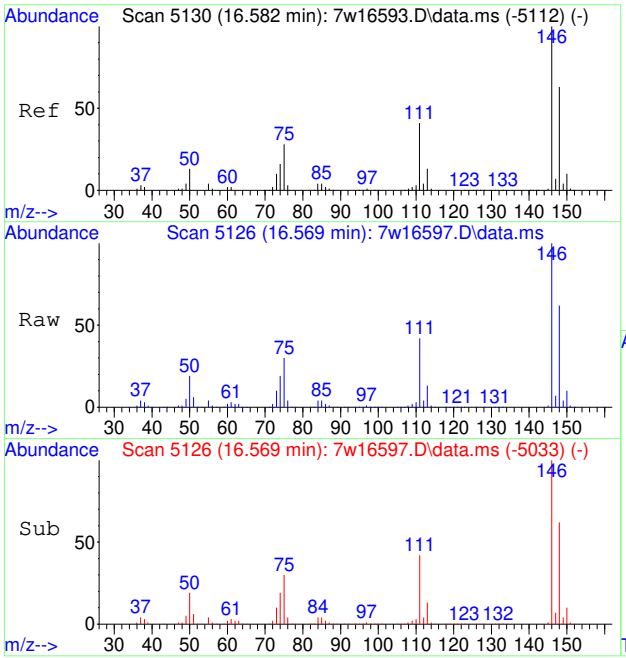


#97
BENZYL CHLORIDE
Concen: 10.58 PPBV
RT: 16.598 min Scan# 5135
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion: 91 Resp: 464197

Ion	Ratio	Lower	Upper
91	100		
126	20.2	14.3	26.5
65	12.8	9.2	17.0

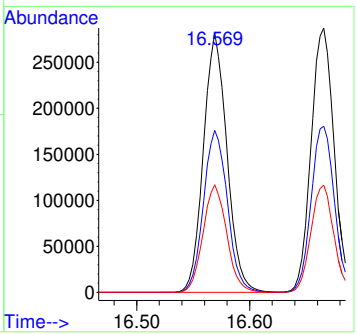


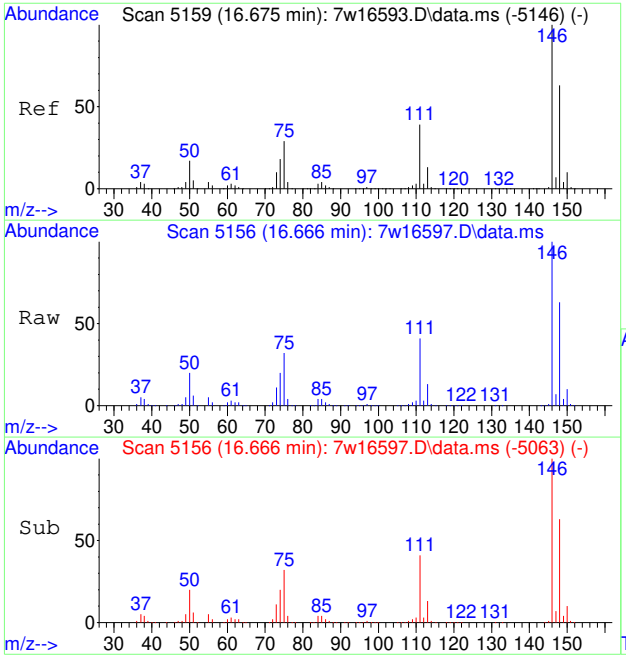


#98
M-DICHLOROBENZENE
Concen: 10.91 PPBV
RT: 16.569 min Scan# 5126
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 406824

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.6	82.8
111	41.7	29.3	54.3

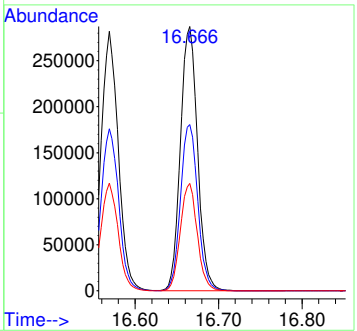


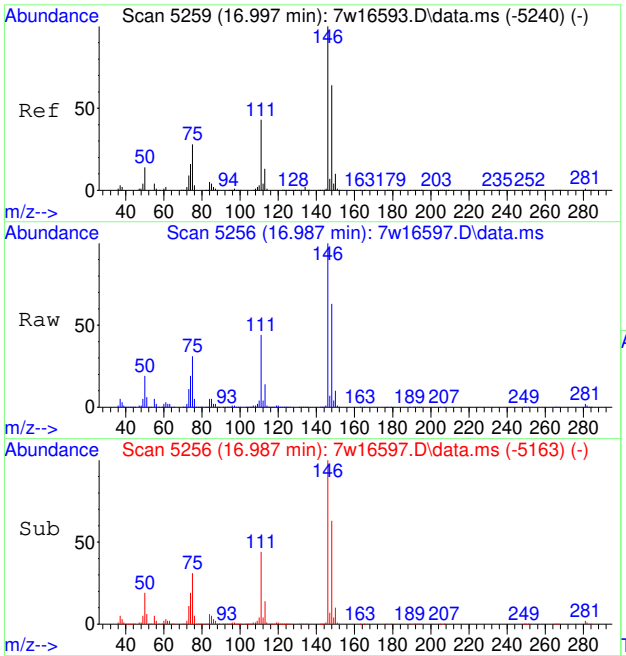


#99
P-DICHLOROBENZENE
Concen: 11.12 PPBV
RT: 16.666 min Scan# 5156
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 408776

Ion	Ratio	Lower	Upper
146	100		
148	63.5	44.2	82.2
111	40.2	28.0	52.0

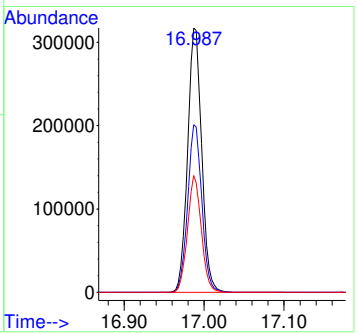


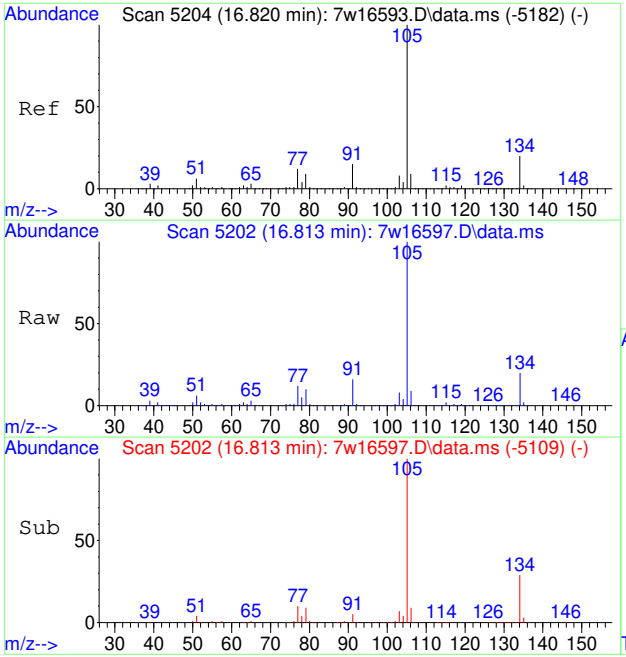


#100
O-DICHLOROBENZENE
Concen: 11.22 PPBV
RT: 16.987 min Scan# 5256
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:146 Resp: 388114

Ion	Ratio	Lower	Upper
146	100		
148	63.7	44.2	82.2
111	43.4	30.4	56.4

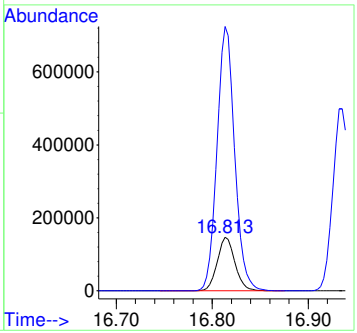


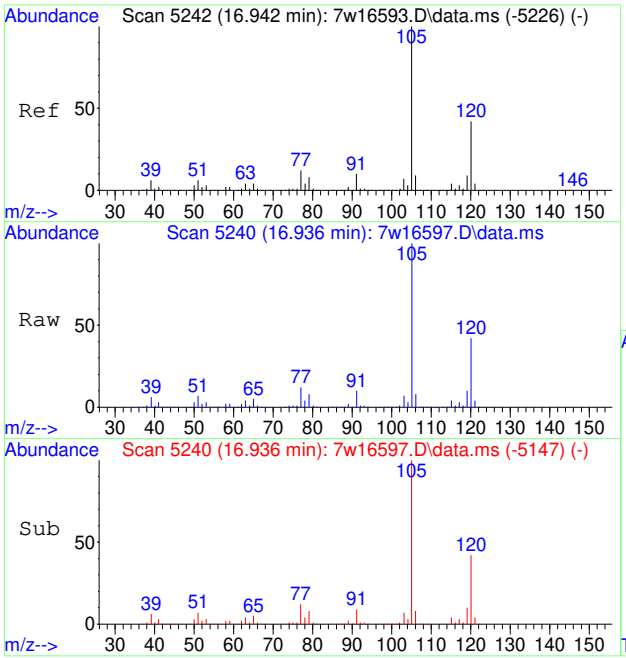


#101
SEC-BUTYLBENZENE
Concen: 11.81 PPBV
RT: 16.813 min Scan# 5202
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 187876

Ion	Ratio	Lower	Upper
134	100		
105	493.2	344.8	640.3

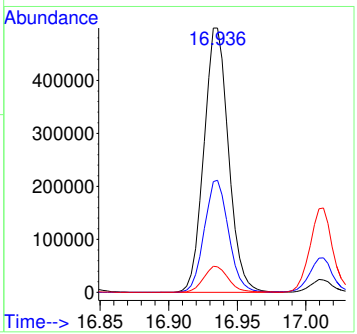


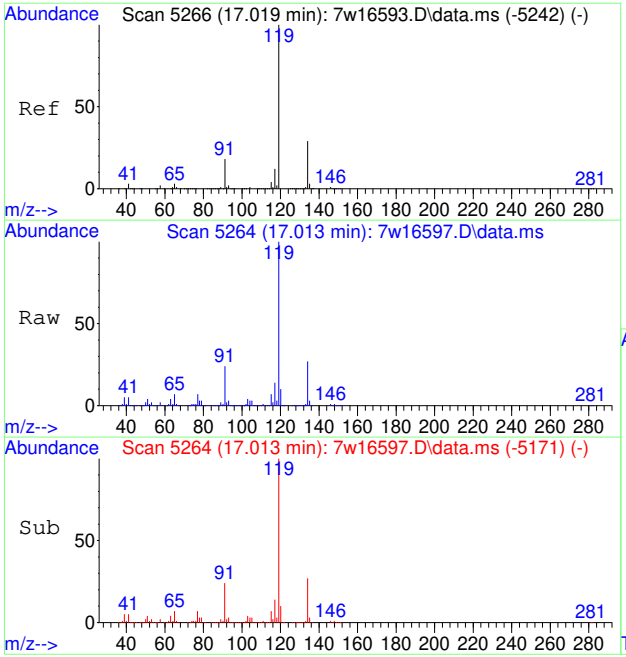


#102
1,2,3-TRIMETHYLBENZENE
Concen: 11.41 PPBV
RT: 16.936 min Scan# 5240
Delta R.T. 0.001 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:105 Resp: 621174

Ion	Ratio	Lower	Upper
105	100		
120	42.0	29.3	54.3
91	10.0	7.0	13.0

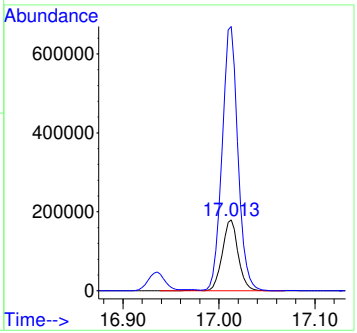


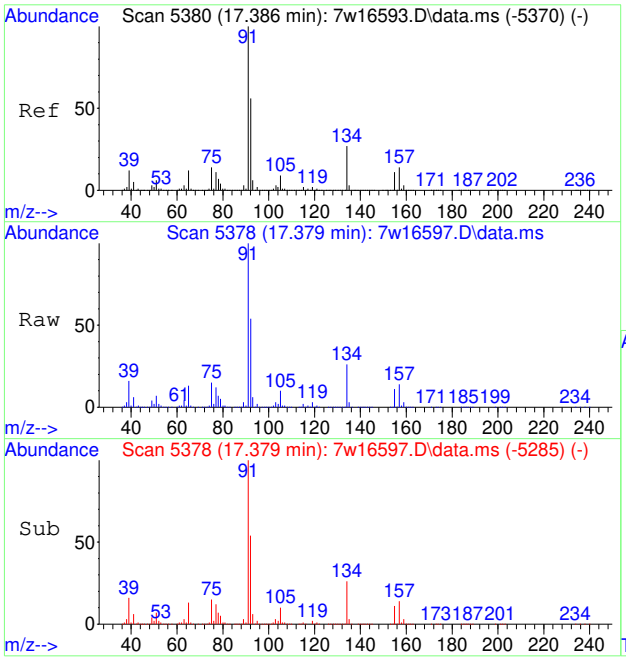


#103
P-ISOPROPYLTOLUENE
Concen: 11.68 PPBV
RT: 17.013 min Scan# 5264
Delta R.T. -0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 206409

Ion	Ratio	Lower	Upper
134	100		
119	372.6	261.4	485.4

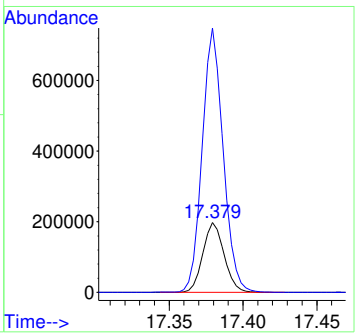


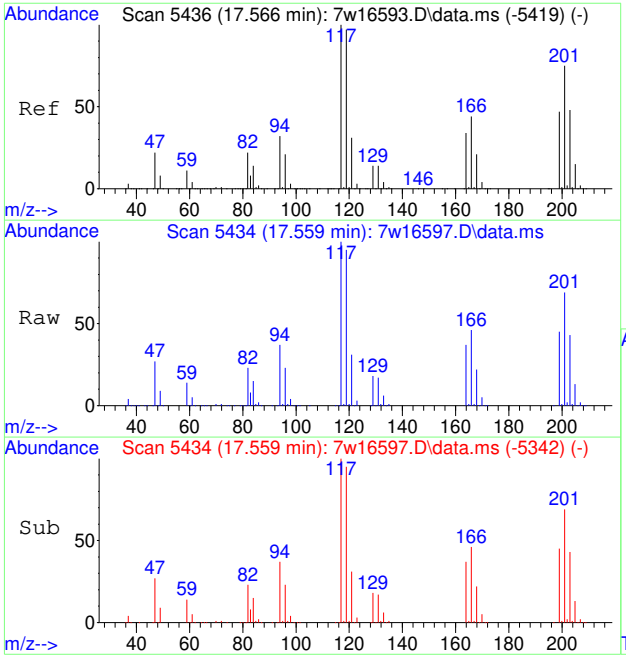


#104
N-BUTYLBENZENE
Concen: 11.69 PPBV
RT: 17.379 min Scan# 5378
Delta R.T. 0.000 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:134 Resp: 197029

Ion	Ratio	Lower	Upper
134	100		
91	373.5	261.0	484.8

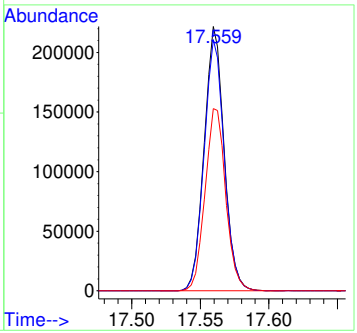


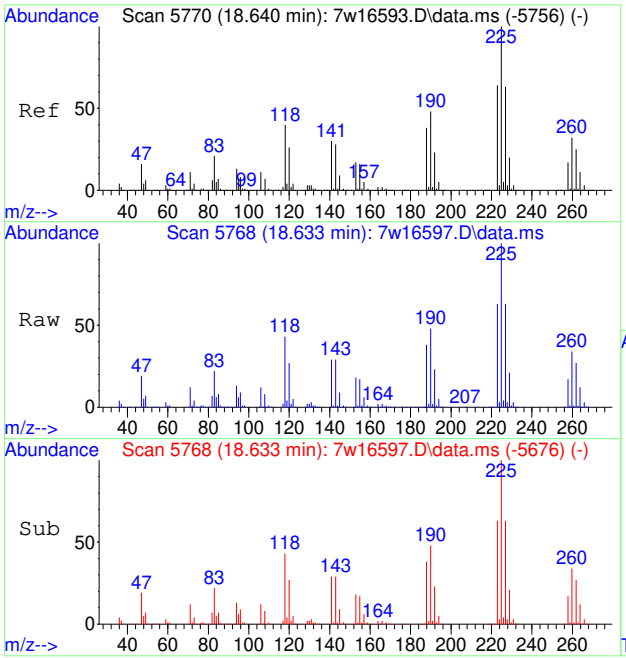


#105
HEXACHLOROETHANE
Concen: 10.80 PPBV
RT: 17.559 min Scan# 5434
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:117 Resp: 224249

Ion	Ratio	Lower	Upper
117	100		
119	96.1	67.7	125.7
201	71.3	49.8	92.6

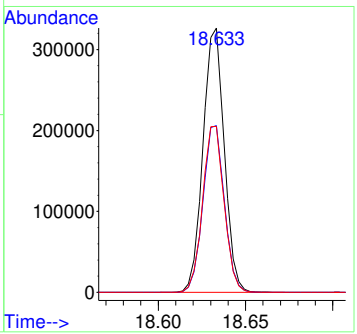


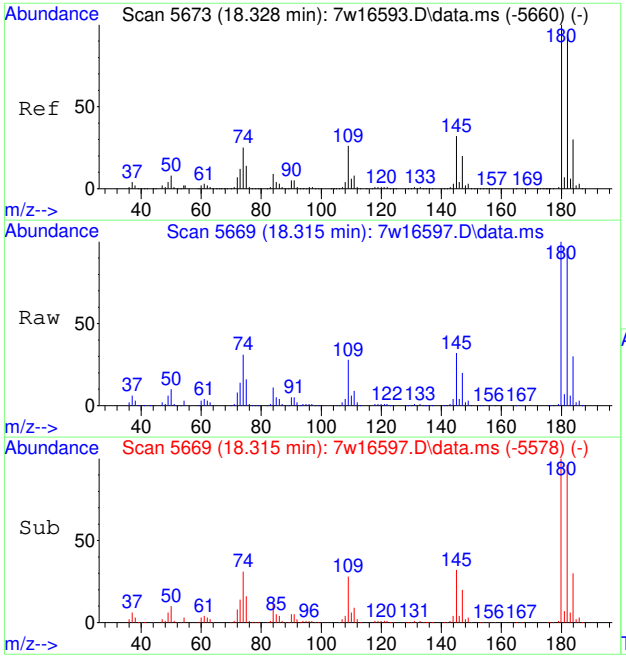


#106
HEXACHLOROBUTADIENE
Concen: 11.26 PPBV
RT: 18.633 min Scan# 5768
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:225 Resp: 277087

Ion	Ratio	Lower	Upper
225	100		
227	63.4	44.6	82.8
223	63.5	44.6	82.8

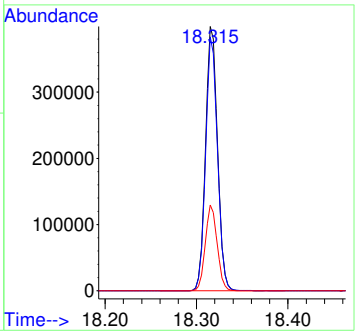


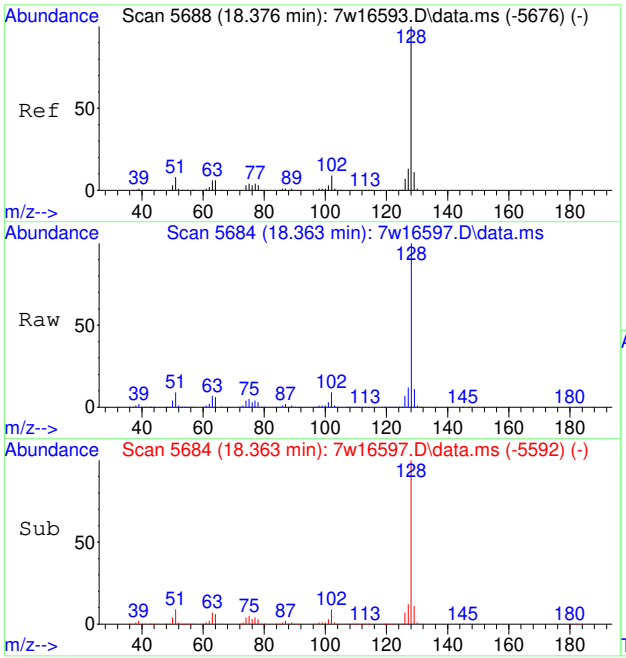


#107
1,2,4-TRICHLOROBENZENE
Concen: 12.29 PPBV
RT: 18.315 min Scan# 5669
Delta R.T. -0.006 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:180 Resp: 362853

Ion	Ratio	Lower	Upper
180	100		
182	95.0	66.6	123.6
145	32.1	22.5	41.9

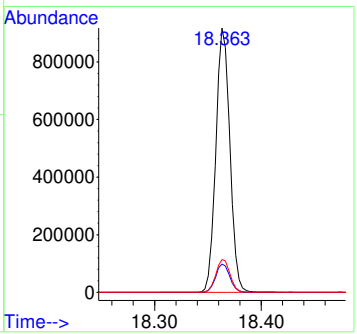


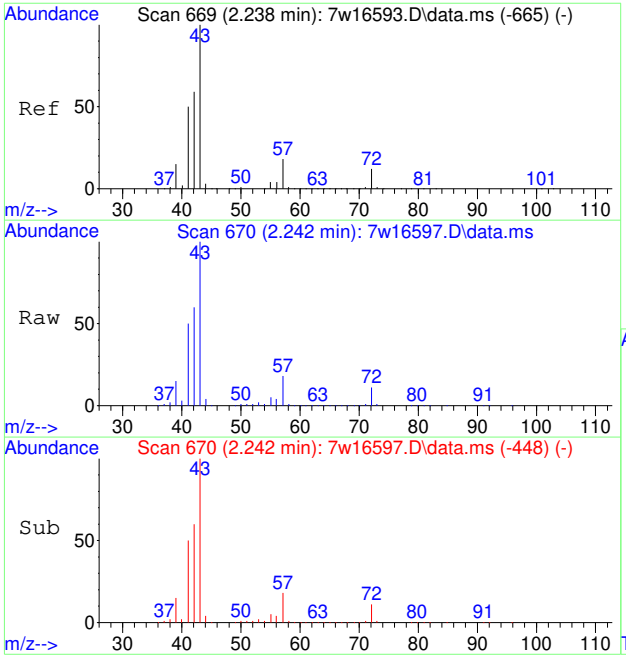


#108
NAPHTHALENE
Concen: 12.65 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.003 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:128 Resp: 837609

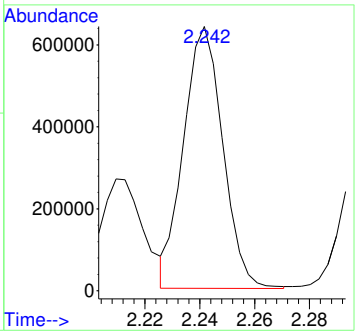
Ion	Ratio	Lower	Upper
128	100		
129	10.9	7.5	13.9
127	12.6	8.6	16.0





#110
TVHC as equiv Pentane
Concen: 10.37 PPBV
RT: 2.242 min Scan# 670
Delta R.T. 0.004 min
Lab File: 7w16597.D
Acq: 7 Aug 2025 6:07 pm

Tgt Ion:TIC Resp: 634578



Manual Integration Approval Summary

Sample Number: V7W577-ICV577
Lab FileID: 7W16597.D
Injection Time: 08/07/25 18:07

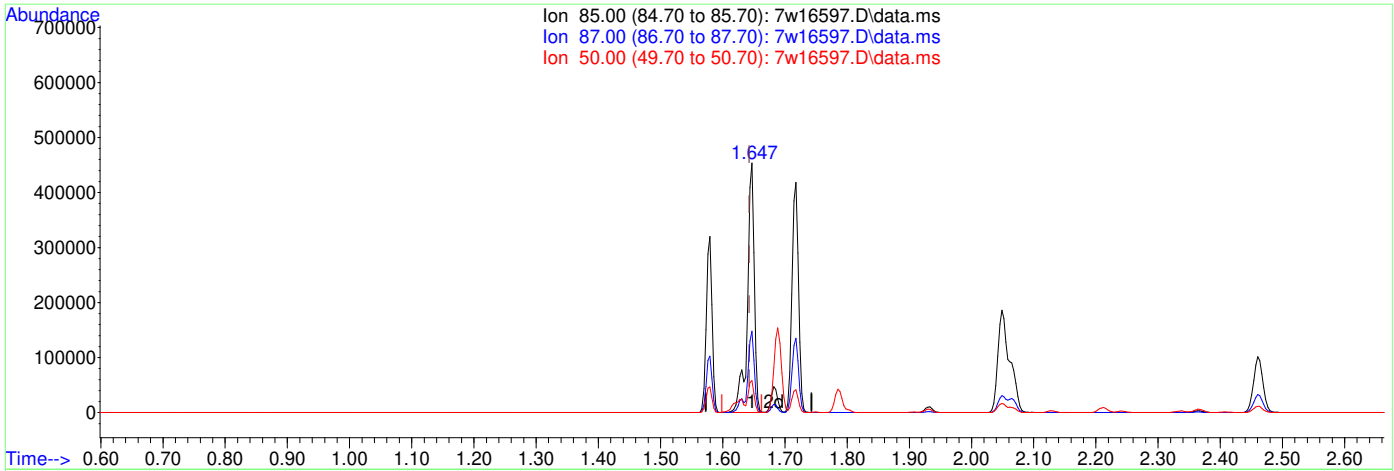
Method: TO-15
Analyst approved: 08/08/25 16:28 Thomas Hilbig
Supervisor approved: 08/08/25 18:31 Kanya Veerawat

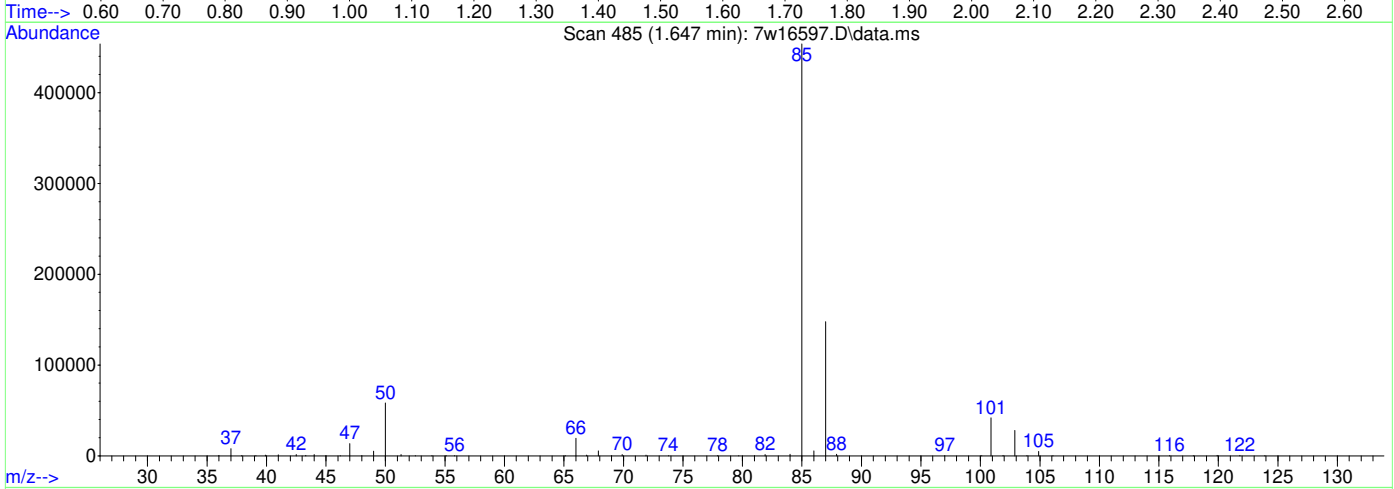
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 13.49PPBV

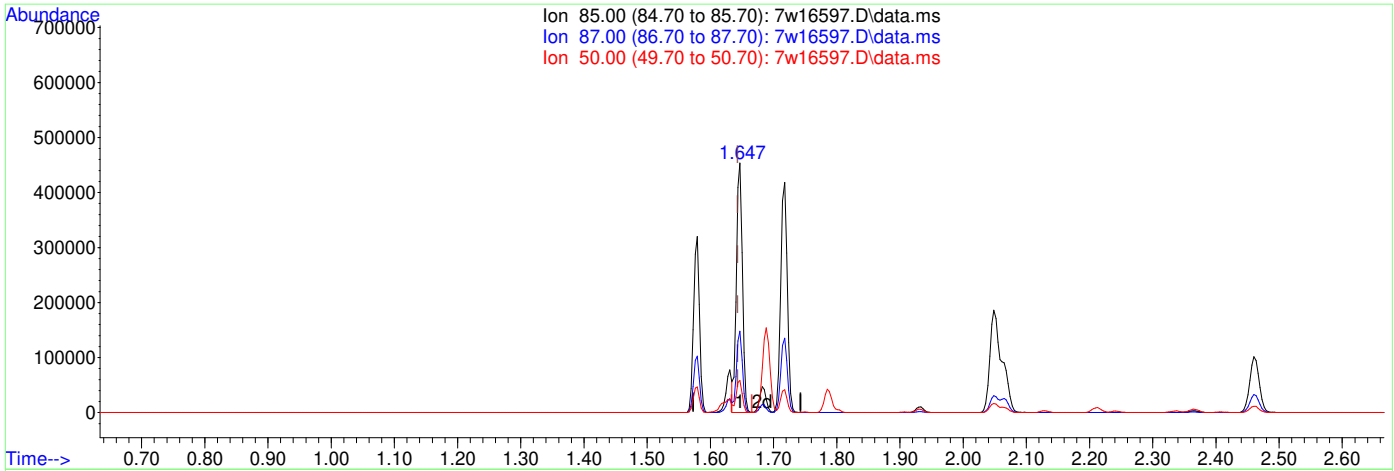
response 350117

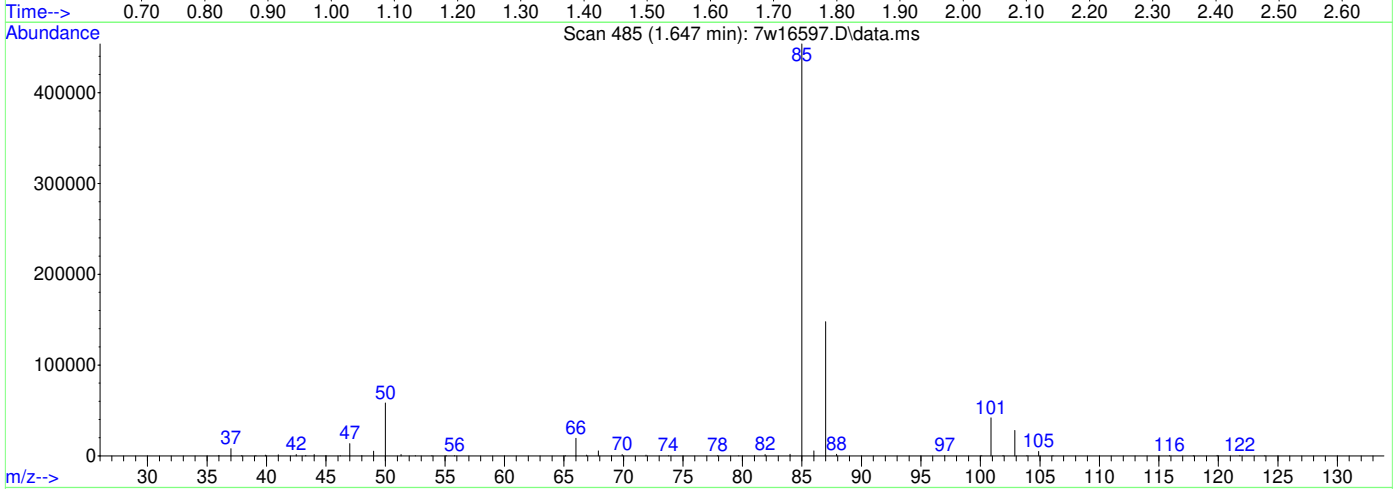
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.48
50.00	19.30	18.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w16597.D
Acq On : 7 Aug 2025 6:07 pm
Operator : benk
Sample : icv577-10
Misc : MS93209,v7w577,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 08 16:06:43 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:05:53 2025
Response via : Initial Calibration





TIC: 7w16597.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 11.58PPBV m

response 300519

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.84
50.00	19.30	21.93
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/25 15:16

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.193	128	116358	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.450	114	571811	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	520899	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.193	128	116358	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	419664	10.01	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.579	119	163088	11.5539	PPBV		99
3) FREON 152A	1.608	65	78406	10.7669	PPBV		93
4) CHLORODIFLUOROMETHANE	1.621	67	33446	10.5791	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.631	116	175760	11.5540	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.647	85	290630m	10.4293	PPBV		
7) PROPYLENE	1.631	41	95474	10.1297	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.685	65	251622	10.1488	PPBV		98
9) FREON 114	1.717	85	287996	10.0264	PPBV		99
10) CHLOROMETHANE	1.688	52	32928	8.2395	PPBV		99
11) VINYL CHLORIDE	1.750	62	117529m	8.3053	PPBV		
12) 1,3-BUTADIENE	1.788	54	94511	8.4555	PPBV		99
13) N-BUTANE	1.801	43	162747	8.6049	PPBV	#	99
14) BROMOMETHANE	1.862	94	104528	9.5260	PPBV		99
15) CHLOROETHANE	1.910	64	64945	8.4552	PPBV		98
16) DICHLOROFLUOROMETHANE	1.933	67	245173	9.2174	PPBV		99
17) ACETONITRILE	1.997	41	92860	7.0259	PPBV		100
18) ACROLEIN	2.039	56	51884	8.2638	PPBV		96
19) FREON 123	2.052	83	271349	10.1251	PPBV		99
20) FREON 123A	2.068	117	167245	10.5339	PPBV		92
21) TRICHLOROFLUOROMETHANE	2.132	101	315449	10.4227	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	235756	9.1923	PPBV		97
23) ACETONE	2.074	58	61465	8.7655	PPBV		95
24) PENTANE	2.245	42	119731	8.6199	PPBV		97
25) IODOMETHANE	2.306	142	302044	10.8471	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.331	96	113502	9.8382	PPBV		92
27) CARBON DISULFIDE	2.466	76	295672	9.0324	PPBV		99
28) ETHANOL	1.936	45	59610	8.7303	PPBV		99
29) BROMOETHENE	2.007	106	107454	9.7540	PPBV		99
30) ACRYLONITRILE	2.212	52	90680	9.1962	PPBV		99
31) METHYLENE CHLORIDE	2.370	84	100570	8.8927	PPBV		93
32) 3-CHLOROPROPENE	2.412	76	53228	8.6257	PPBV		93
33) FREON 113	2.463	151	192366	11.0698	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	109522	8.6284	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.341	59	225238	7.0292	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.794	73	341132	9.4479	PPBV		99
37) TETRAHYDROFURAN	3.470	72	54436	9.2961	PPBV		95
38) HEXANE	3.241	57	232201	9.5475	PPBV		98
39) VINYL ACETATE	2.830	86	33655	9.6975	PPBV		88
40) 1,1-DICHLOROETHANE	2.762	63	237635	9.6844	PPBV		100
41) METHYL ETHYL KETONE	2.923	72	63349	9.5459	PPBV		92
42) CIS-1,2-DICHLOROETHENE	3.119	96	132822	10.0880	PPBV		95
43) DIISOPROPYL ETHER	3.245	59	63810	9.2540	PPBV		100
44) ETHYL ACETATE	3.251	61	46222	9.9155	PPBV		95
45) METHYL ACRYLATE	3.238	55	279714	9.5047	PPBV	#	100
46) CHLOROFORM	3.264	83	263663	10.3820	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	269103	9.8861	PPBV		99
48) 1,1,1-TRICHLOROETHANE	3.823	97	276035	10.3131	PPBV		98
49) CARBON TETRACHLORIDE	4.241	117	297702	10.7365	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	188951	9.5709	PPBV		98
51)	BENZENE	4.129	78	381313	9.7878	PPBV		98
53)	CYCLOHEXANE	4.335	84	171831	10.2715	PPBV		97
54)	2,3-DIMETHYLPENTANE	4.589	71	88073	10.5570	PPBV		96
55)	TRICHLOROETHENE	5.016	95	178344	10.0006	PPBV		98
56)	1,2-DICHLOROPROPANE	4.782	63	154813	9.8220	PPBV		98
57)	DIBROMOMETHANE	4.743	174	188737	12.4198	PPBV		83
58)	ETHYL ACRYLATE	4.900	55	346044	9.8087	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	296039	10.2746	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	724407	9.3827	PPBV		100
61)	1,4-DIOXANE	5.026	88	84481	10.0079	PPBV		99
62)	HEPTANE	5.421	43	242704	9.5206	PPBV		99
63)	METHYL METHACRYLATE	5.318	69	141707	9.8923	PPBV		94
64)	METHYL ISOBUTYL KETONE	6.042	58	136844	8.9515	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	5.942	75	241996	10.0129	PPBV		96
66)	TOLUENE	7.132	91	473872	10.4370	PPBV		100
67)	1,3-DICHLOROPROPANE	7.190	76	243885	10.7144	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	209221	9.5814	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	138459	10.7019	PPBV		98
70)	2-HEXANONE	7.695	58	182994	8.5789	PPBV		98
71)	ETHYL METHACRYLATE	7.833	69	239373	10.0176	PPBV		96
72)	TETRACHLOROETHENE	8.849	164	212743	12.8459	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.659	129	308693	11.7409	PPBV		98
74)	1,2-DIBROMOETHANE	8.000	107	262168	11.2010	PPBV	#	100
75)	OCTANE	8.997	43	337681	9.8888	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	210593	11.2663	PPBV		98
78)	CHLOROBENZENE	10.048	112	390632	10.9774	PPBV		99
79)	ETHYLBENZENE	10.923	91	645828	11.0755	PPBV		100
80)	M,P-XYLENE	11.350	91	1003032	21.2340	PPBV		99
81)	O-XYLENE	12.280	91	508409	11.0892	PPBV		99
82)	STYRENE	12.067	104	391110	11.3791	PPBV		100
83)	NONANE	13.402	43	357527	10.0182	PPBV		99
84)	BROMOFORM	11.161	173	339077	15.4206	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	359106	10.9346	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	284105	11.0378	PPBV		100
88)	ISOPROPYLBENZENE	13.784	120	187852	10.7786	PPBV		100
89)	BROMOBENZENE	13.649	77	350259	10.4642	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	174412	10.7299	PPBV		100
91)	N-PROPYLBENZENE	15.122	120	200624	10.8459	PPBV		100
92)	4-ETHYLTOLUENE	15.572	105	742643	10.8486	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	627675	11.0172	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.177	118	303322	10.7352	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	142496	10.2586	PPBV		88
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	636713	11.2732	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	447528	9.8079	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	414699	10.6869	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	418016	10.9323	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	390320	10.8435	PPBV		97
101)	SEC-BUTYLBENZENE	16.813	134	174245	10.5345	PPBV		89
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	612606	10.8197	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	192380	10.4645	PPBV		89
104)	N-BUTYLBENZENE	17.379	134	188579	10.7594	PPBV		93
105)	HEXACHLOROETHANE	17.556	117	249595	11.5593	PPBV	#	84
106)	HEXACHLOROBUTADIENE	18.623	225	486999	19.0236	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.312	180	498080	16.2228	PPBV		97
108)	NAPHTHALENE	18.360	128	949889	13.7917	PPBV		99
110)	TVHC as equiv Pentane	2.245	TIC	588522	8.9611	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

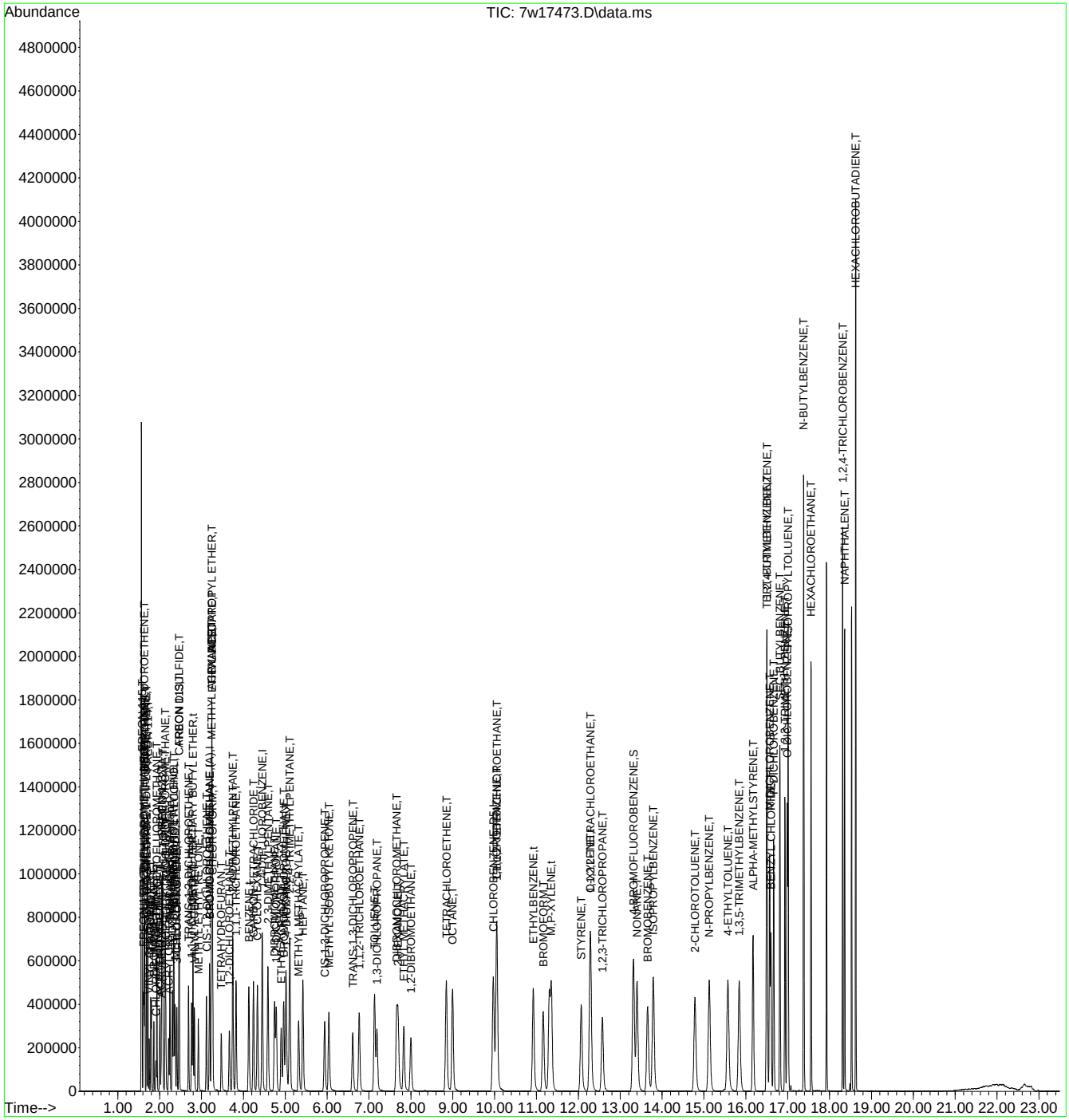
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 17:08:22 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

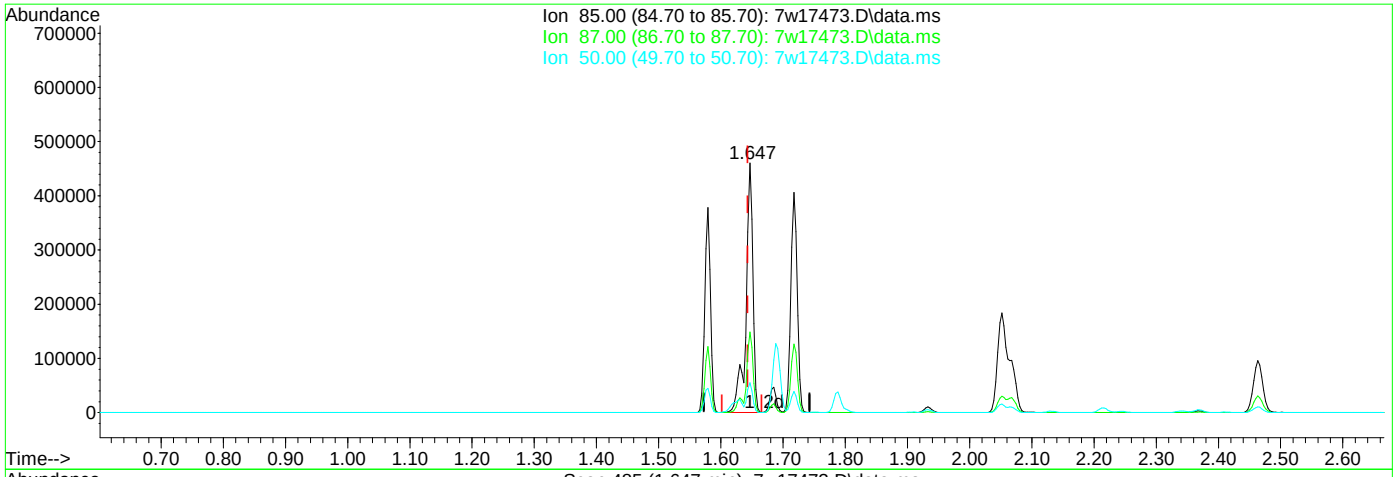
Sample Number: V7W613-CC577 **Method:** TO-15
Lab FileID: 7W17473.D **Analyst approved:** 09/29/25 13:49 Kristel Valladolid
Injection Time: 09/26/25 11:04 **Supervisor approved:** 09/29/25 15:16 Kanya Veerawat

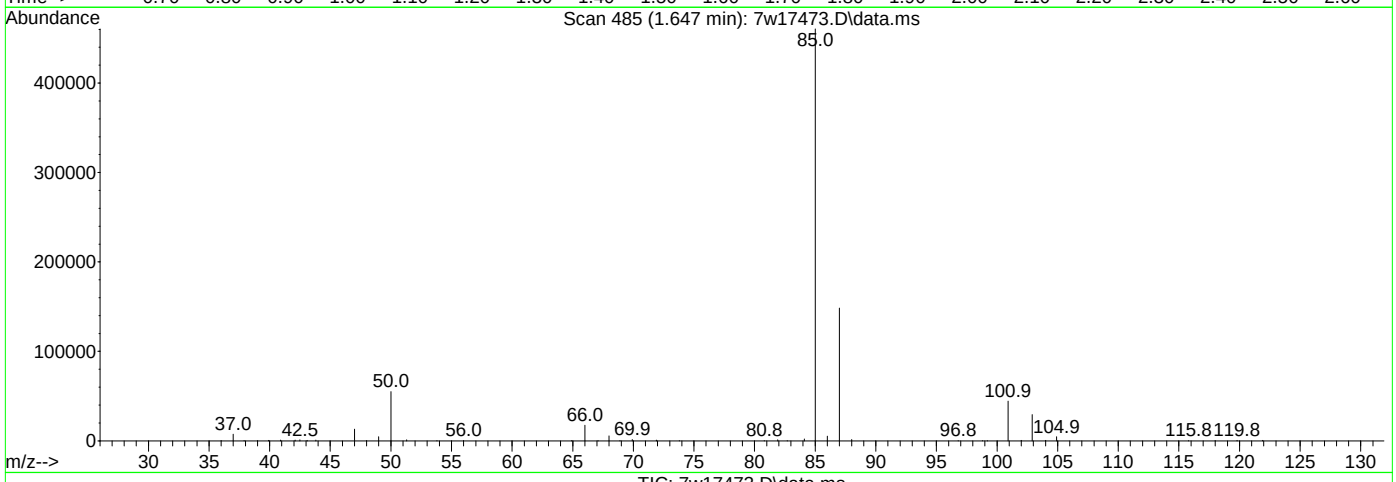
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.65	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 12.75PPBV

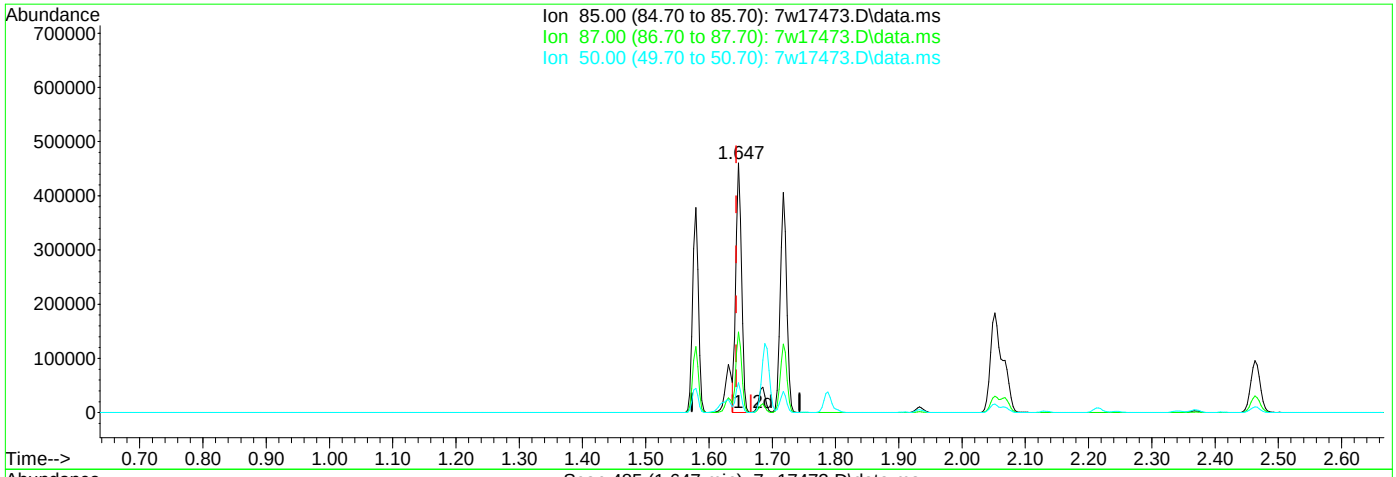
response 355281

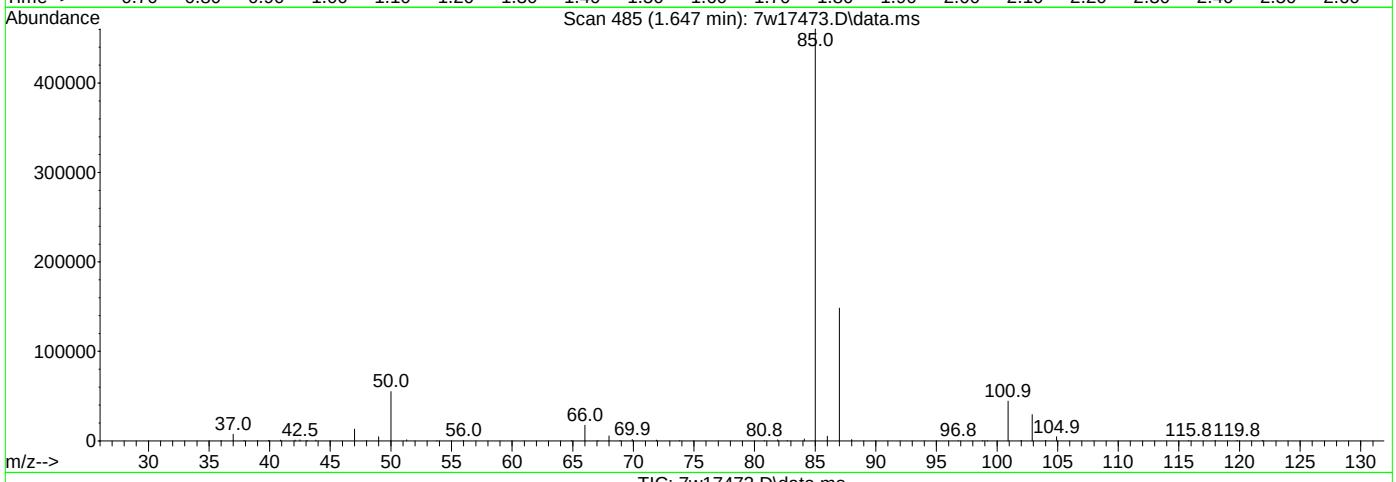
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.57
50.00	19.30	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.647min (+0.004) 10.43PPBV m

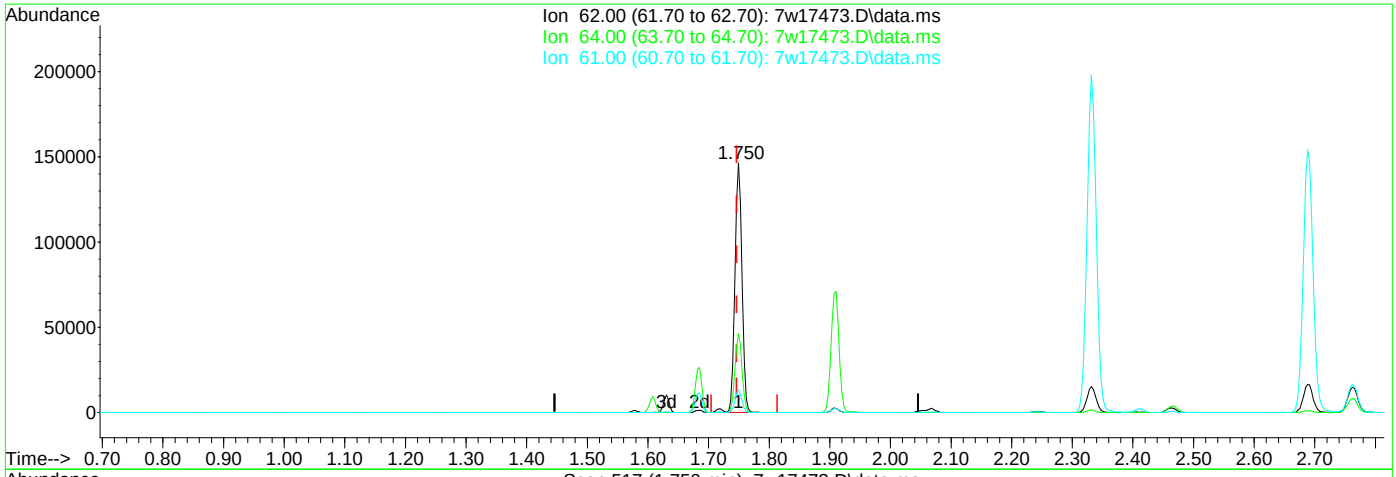
response 290630

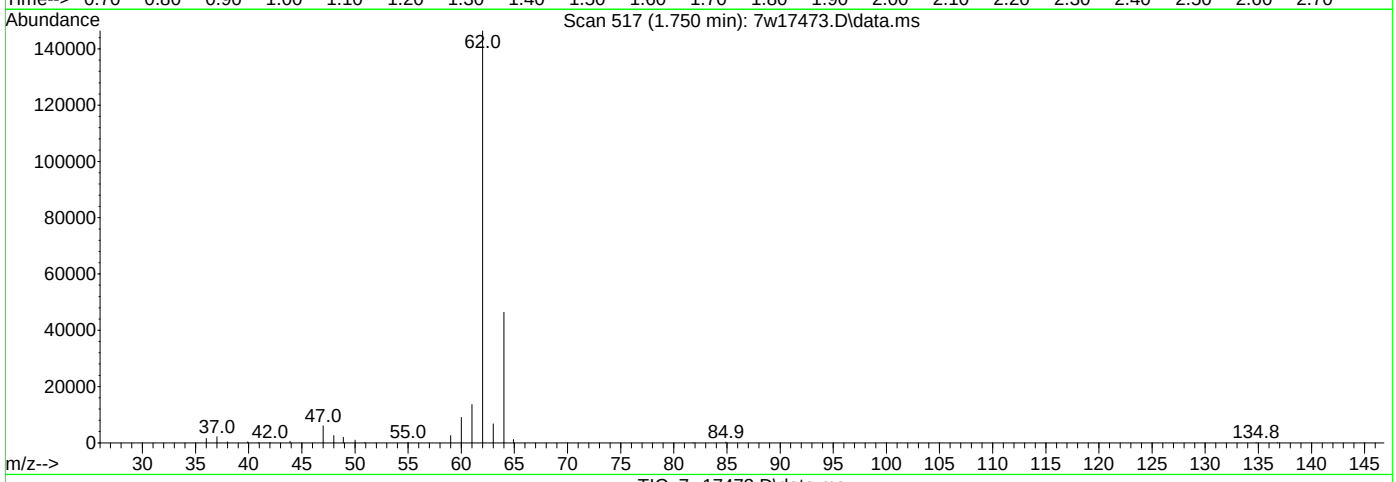
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	39.81
50.00	19.30	21.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.43PPBV

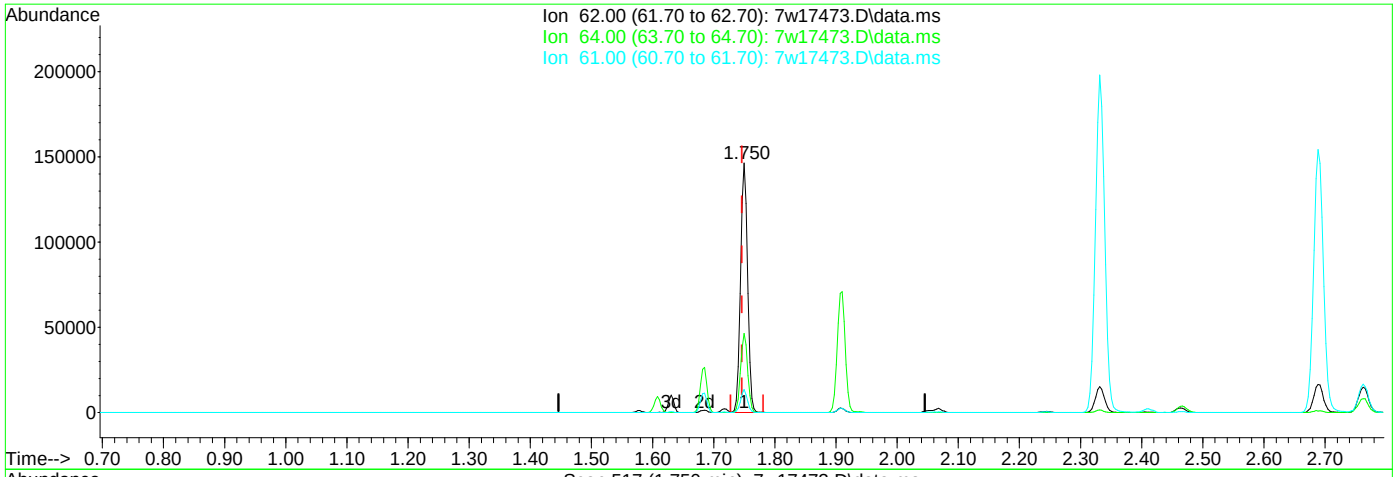
response 119282

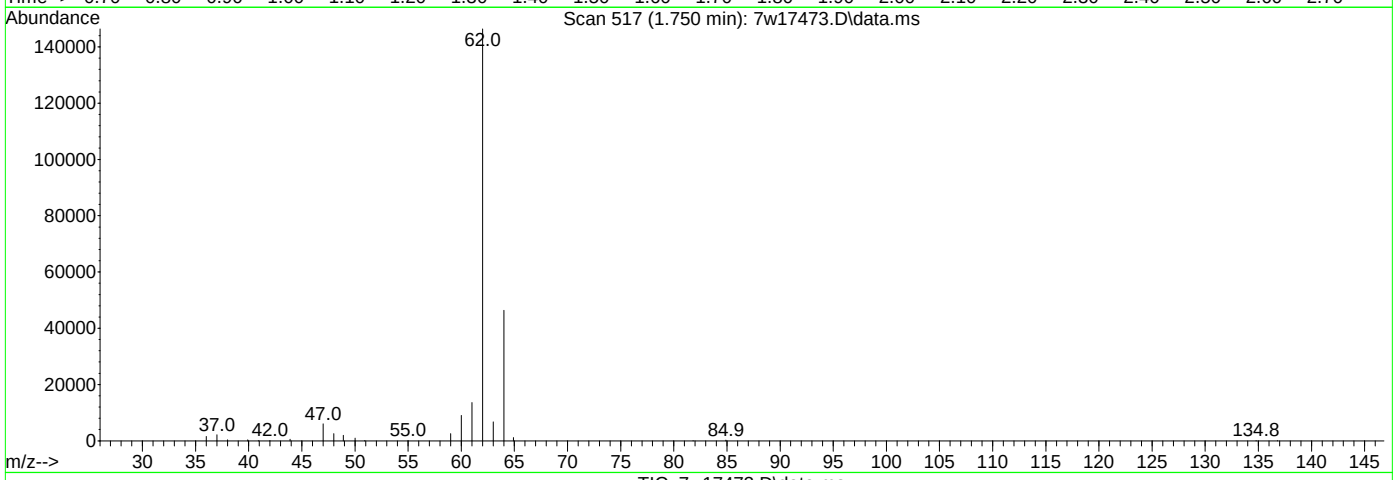
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.24
61.00	8.10	8.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\kristelv\092925\v7w613\
Data File : 7w17473.D
Acq On : 26 Sep 2025 11:04 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97385,v7w613,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:55:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17473.D\data.ms

(11) VINYL CHLORIDE (T)

1.750min (+0.004) 8.31PPBV m

response 117529

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.70
61.00	8.10	8.97
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Benjamin Kim
10/14/25 16:42

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	133953	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	659891	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	616286	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	133953	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	503374	10.14	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	177470	10.9213	PPBV		100
3) FREON 152A	1.605	65	90758	10.8260	PPBV		92
4) CHLORODIFLUOROMETHANE	1.618	67	39420	10.8310	PPBV		95
5) CHLOROTRIFLUOROETHENE	1.627	116	194541	11.1088	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	337777m	10.5290	PPBV		
7) PROPYLENE	1.627	41	108538	10.0032	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	299323	10.4870	PPBV		99
9) FREON 114	1.714	85	325416	9.8410	PPBV		98
10) CHLOROMETHANE	1.688	52	38366	8.3392	PPBV		97
11) VINYL CHLORIDE	1.746	62	139139m	8.5409	PPBV		
12) 1,3-BUTADIENE	1.785	54	109057	8.4753	PPBV		98
13) N-BUTANE	1.801	43	189643	8.7099	PPBV		100
14) BROMOMETHANE	1.859	94	118438	9.3759	PPBV		100
15) CHLOROETHANE	1.907	64	75846	8.5774	PPBV		99
16) DICHLOROFLUOROMETHANE	1.930	67	291881	9.5320	PPBV		99
17) ACETONITRILE	1.997	41	106769	7.0172	PPBV		99
18) ACROLEIN	2.032	56	59014	8.1648	PPBV		97
19) FREON 123	2.049	83	307928	9.9807	PPBV		98
20) FREON 123A	2.065	117	191785	10.4929	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.129	101	361225	10.3675	PPBV		100
22) ISOPROPYL ALCOHOL	2.145	45	295804	10.0186	PPBV		98
23) ACETONE	2.071	58	72600	8.9935	PPBV		94
24) PENTANE	2.241	42	134532	8.4133	PPBV		94
25) IODOMETHANE	2.303	142	343257	10.7080	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.328	96	131850	9.9274	PPBV		96
27) CARBON DISULFIDE	2.463	76	340942	9.0473	PPBV		99
28) ETHANOL	1.936	45	58995	7.5054	PPBV		99
29) BROMOETHENE	2.004	106	122429	9.6535	PPBV		99
30) ACRYLONITRILE	2.213	52	102848	9.0602	PPBV		99
31) METHYLENE CHLORIDE	2.367	84	114935	8.8279	PPBV		92
32) 3-CHLOROPROPENE	2.409	76	61802	8.6996	PPBV		93
33) FREON 113	2.463	151	221690	11.0816	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.688	96	125441	8.5845	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.338	59	280149	7.5945	PPBV		93
36) METHYL TERTIARY BUTYL ...	2.791	73	399208	9.6040	PPBV		100
37) TETRAHYDROFURAN	3.470	72	61872	9.1781	PPBV		98
38) HEXANE	3.241	57	266824	9.5301	PPBV		99
39) VINYL ACETATE	2.827	86	38741	9.6968	PPBV		94
40) 1,1-DICHLOROETHANE	2.762	63	263022	9.3110	PPBV		99
41) METHYL ETHYL KETONE	2.923	72	70574	9.2377	PPBV		100
42) CIS-1,2-DICHLOROETHENE	3.116	96	150241	9.9121	PPBV		98
43) DIISOPROPYL ETHER	3.245	59	75359	9.4934	PPBV		96
44) ETHYL ACETATE	3.251	61	54193	10.0984	PPBV		90
45) METHYL ACRYLATE	3.235	55	329510	9.7261	PPBV	#	100
46) CHLOROFORM	3.264	83	301131	10.2998	PPBV		99
47) 2,4-DIMETHYLPENTANE	3.746	57	313300	9.9979	PPBV		100
48) 1,1,1-TRICHLOROETHANE	3.823	97	319066	10.3549	PPBV		98
49) CARBON TETRACHLORIDE	4.238	117	341442	10.6965	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	224067	9.8589	PPBV		99
51)	BENZENE	4.129	78	427351	9.5286	PPBV		99
53)	CYCLOHEXANE	4.335	84	192042	9.9473	PPBV		99
54)	2,3-DIMETHYLPENTANE	4.585	71	99357	10.3199	PPBV		99
55)	TRICHLOROETHENE	5.013	95	200744	9.7542	PPBV		98
56)	1,2-DICHLOROPROPANE	4.785	63	181431	9.9743	PPBV		99
57)	DIBROMOMETHANE	4.746	174	218086	12.4356	PPBV		82
58)	ETHYL ACRYLATE	4.901	55	407383	10.0060	PPBV		100
59)	BROMODICHLOROMETHANE	4.962	83	336180	10.1104	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	841343	9.4428	PPBV		100
61)	1,4-DIOXANE	5.026	88	98685	10.1301	PPBV		99
62)	HEPTANE	5.418	43	279169	9.4893	PPBV		98
63)	METHYL METHACRYLATE	5.319	69	162132	9.8075	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.039	58	162679	9.2211	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	278200	9.9744	PPBV		97
66)	TOLUENE	7.129	91	538193	10.2715	PPBV		99
67)	1,3-DICHLOROPROPANE	7.187	76	272716	10.3818	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	244994	9.7221	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.769	83	157387	10.5412	PPBV		98
70)	2-HEXANONE	7.695	58	218019	8.8566	PPBV		97
71)	ETHYL METHACRYLATE	7.833	69	275154	9.9781	PPBV		97
72)	TETRACHLOROETHENE	8.846	164	251471	13.1576	PPBV		87
73)	DIBROMOCHLOROMETHANE	7.662	129	353185	11.6401	PPBV		99
74)	1,2-DIBROMOETHANE	8.000	107	300394	11.1211	PPBV	#	99
75)	OCTANE	8.997	43	388518	9.8589	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	242787	10.9783	PPBV		97
78)	CHLOROBENZENE	10.045	112	443864	10.5427	PPBV		99
79)	ETHYLBENZENE	10.923	91	739788	10.7232	PPBV		99
80)	M,P-XYLENE	11.347	91	1153457	20.6391	PPBV		98
81)	O-XYLENE	12.273	91	584599	10.7774	PPBV		99
82)	STYRENE	12.067	104	445360	10.9519	PPBV		99
83)	NONANE	13.402	43	410336	9.7183	PPBV		98
84)	BROMOFORM	11.161	173	398925	15.3343	PPBV	#	96
85)	1,1,2,2-TETRACHLOROETHANE	12.289	83	414118	10.6580	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	12.575	75	327867	10.7664	PPBV		100
88)	ISOPROPYLBENZENE	13.788	120	214666	10.4107	PPBV		99
89)	BROMOBENZENE	13.649	77	401712	10.1439	PPBV		87
90)	2-CHLOROTOLUENE	14.784	126	197839	10.2874	PPBV		99
91)	N-PROPYLBENZENE	15.132	120	227675	10.4033	PPBV		99
92)	4-ETHYLTOLUENE	15.572	105	857338	10.5856	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	716951	10.6365	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.173	118	346037	10.3514	PPBV		99
95)	TERT-BUTYLBENZENE	16.498	134	159454	9.7027	PPBV		83
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	732817	10.9666	PPBV		100
97)	BENZYL CHLORIDE	16.601	91	536086	9.9303	PPBV		99
98)	M-DICHLOROBENZENE	16.569	146	474032	10.3252	PPBV		98
99)	P-DICHLOROBENZENE	16.665	146	478030	10.5669	PPBV		97
100)	O-DICHLOROBENZENE	16.987	146	449579	10.5567	PPBV		98
101)	SEC-BUTYLBENZENE	16.813	134	199209	10.1797	PPBV		90
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	704353	10.5147	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	218072	10.0260	PPBV		87
104)	N-BUTYLBENZENE	17.376	134	212975	10.2706	PPBV		90
105)	HEXACHLOROETHANE	17.556	117	276086	10.8071	PPBV	#	85
106)	HEXACHLOROBUTADIENE	18.620	225	558862	18.4519	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.308	180	562805	15.4937	PPBV		97
108)	NAPHTHALENE	18.357	128	1051771	12.9074	PPBV		99
110)	TVHC as equiv Pentane	2.241	TIC	662208	8.7586	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:33:03 2025
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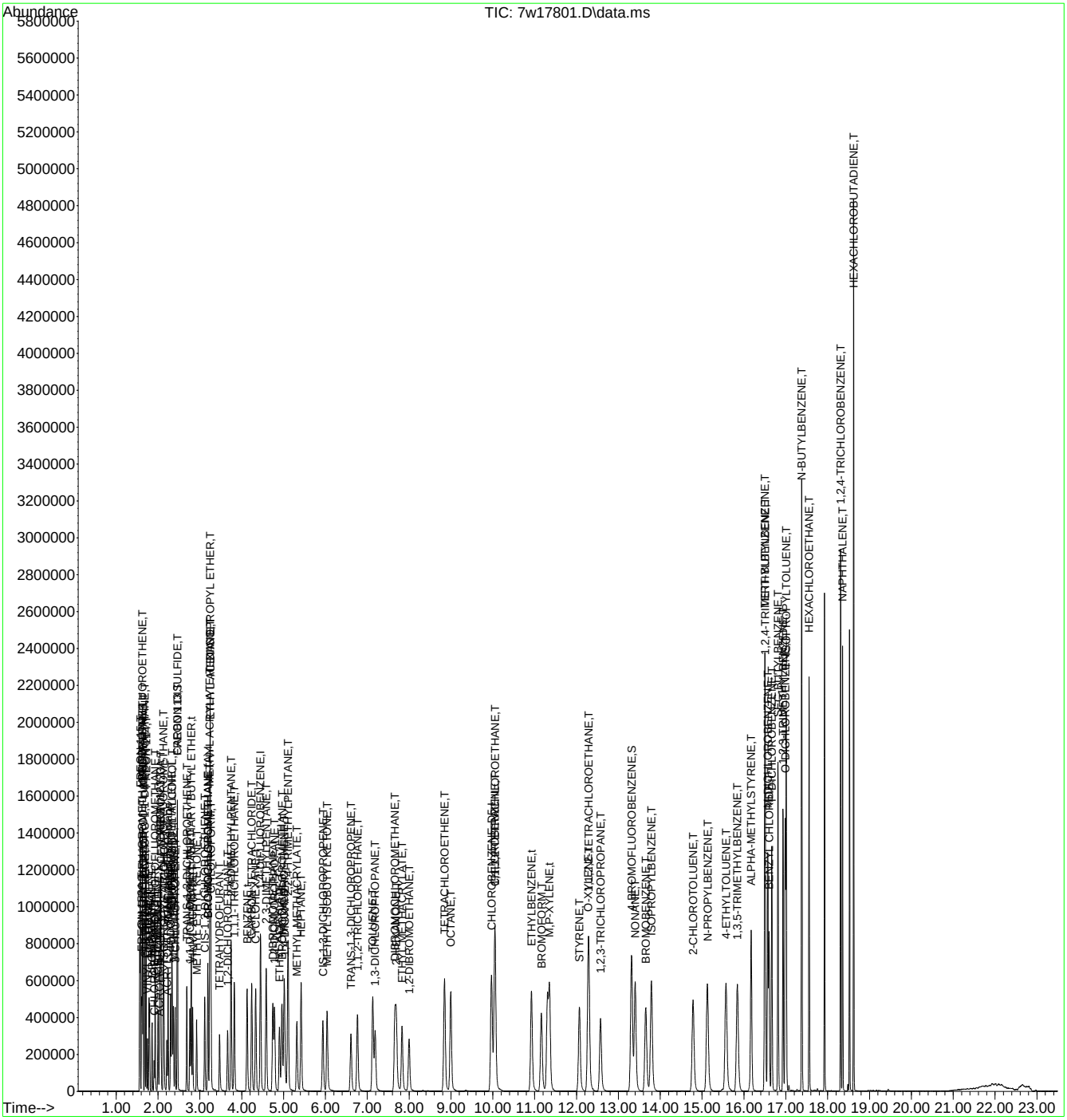
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

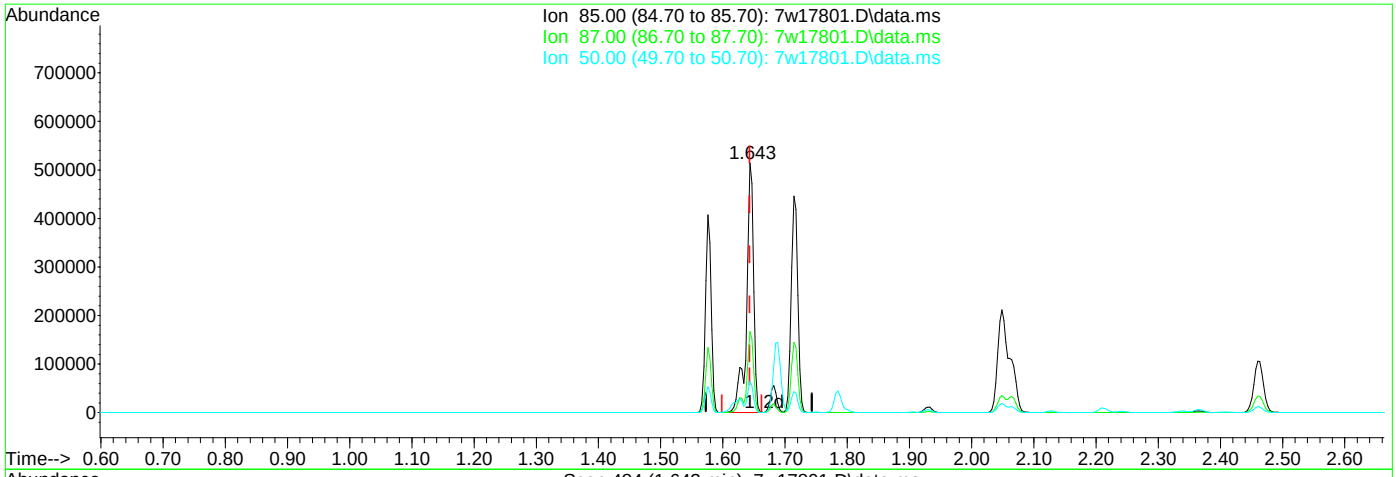
Sample Number: V7W624-CC577
Lab FileID: 7W17801.D
Injection Time: 10/13/25 11:18
Method: TO-15
Analyst approved: 10/13/25 17:49 Michaella Balido
Supervisor approved: 10/14/25 16:42 Benjamin Kim

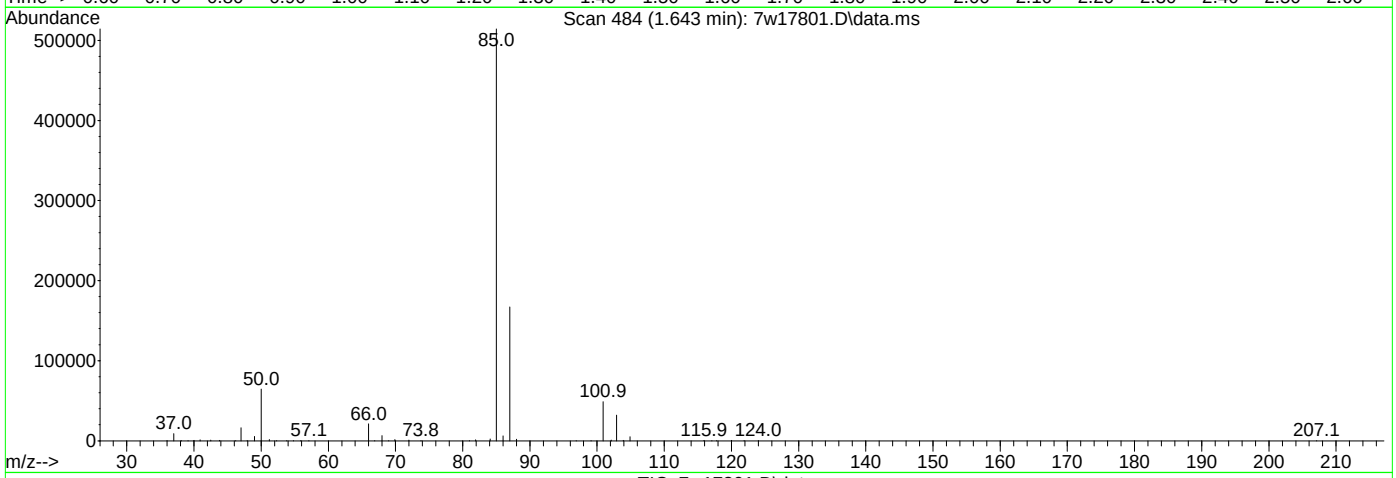
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 12.63PPBV

response 405326

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.32
50.00	19.30	18.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
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Misc : MS97882,v7w624,,,,,1
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Quant Time: Oct 13 21:28:54 2025
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Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
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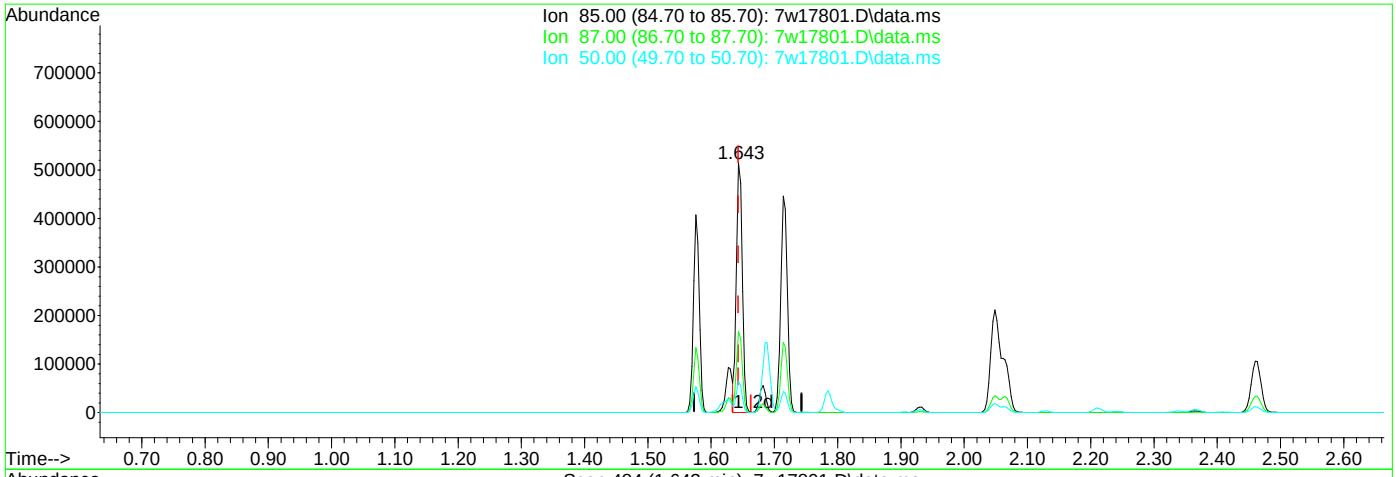
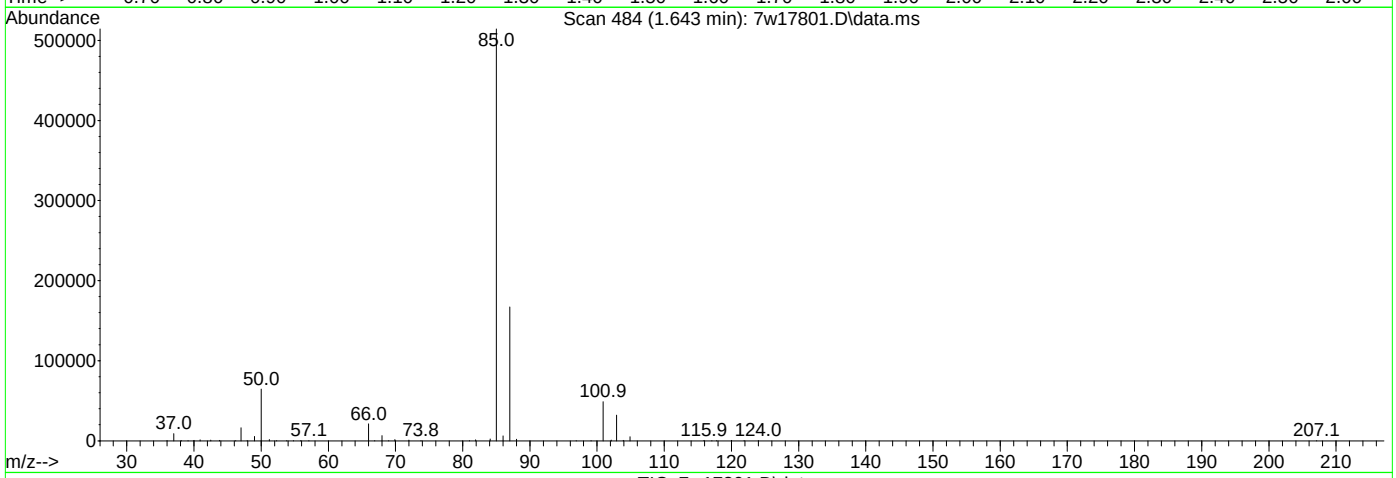




TIC: 7w17801.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 10.53PPBV m

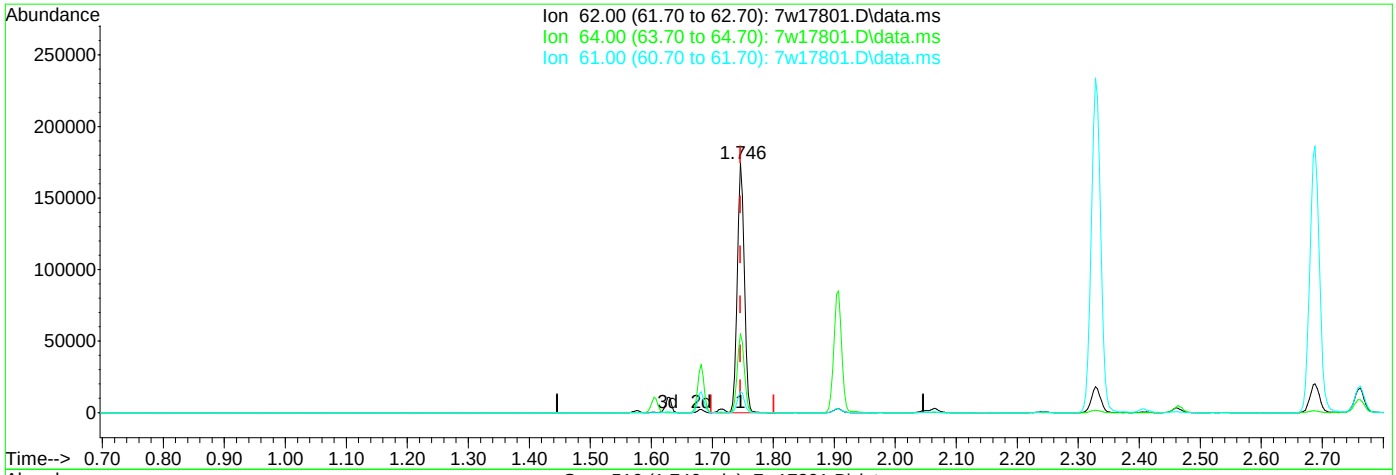
response 337777

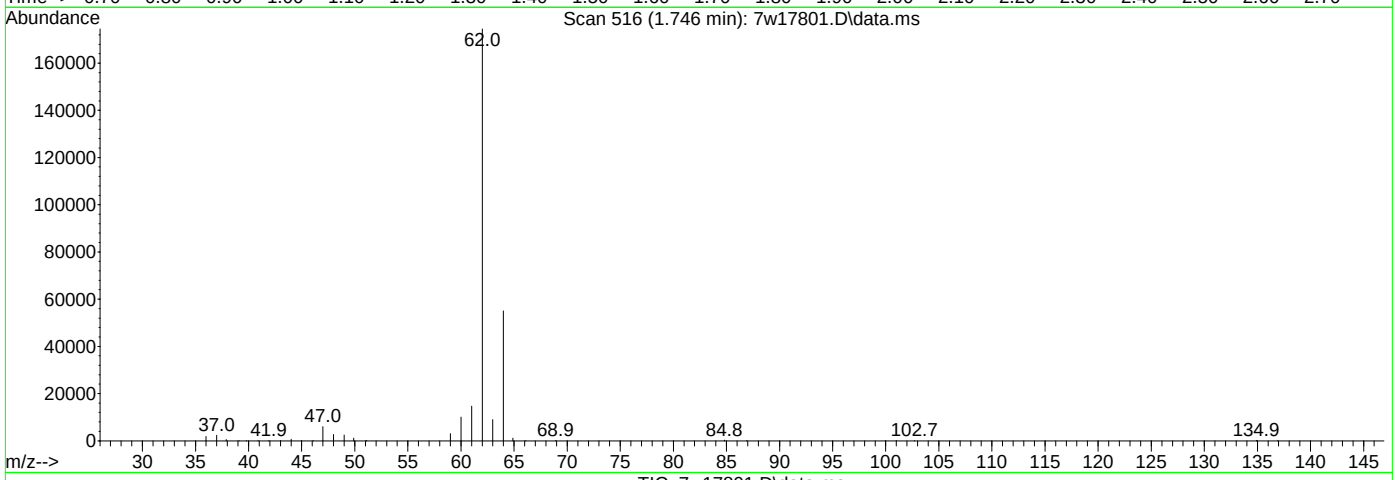
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.78
50.00	19.30	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.66PPBV

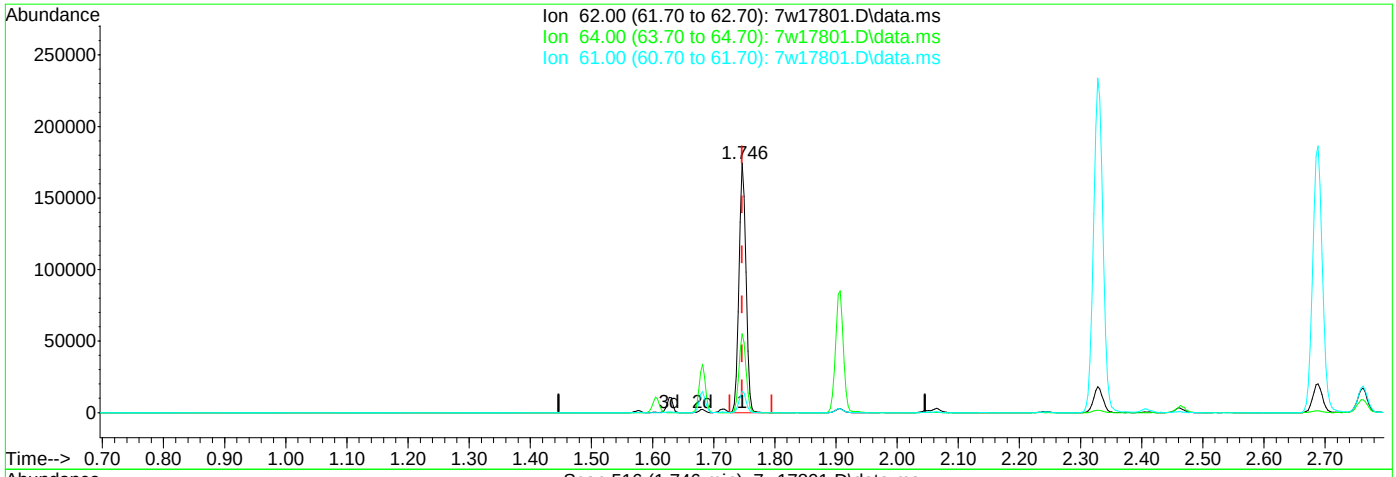
response 141102

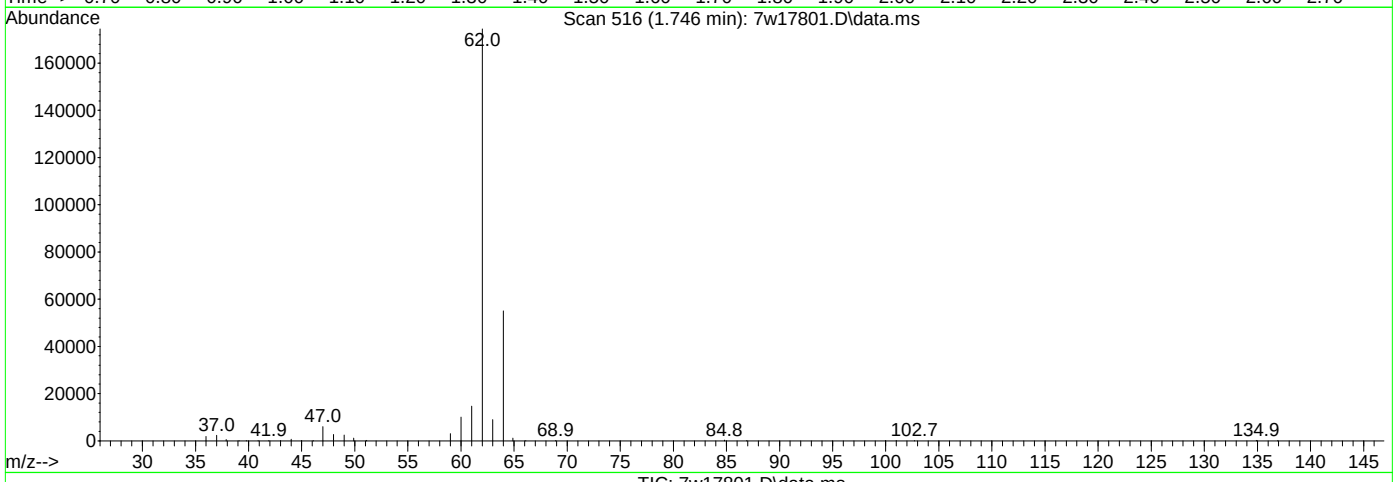
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.50
61.00	8.10	8.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\michaellab\10-13-2025\V7W624\
Data File : 7w17801.D
Acq On : 13 Oct 2025 11:18 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS97882,v7w624,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 21:28:54 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w17801.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 8.54PPBV m

response 139139

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	31.95
61.00	8.10	8.53
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/13/25 17:36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18504.D
Acq On : 12 Nov 2025 11:33 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:15:38 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	121060	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	559042	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.968	117	540854	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	121060	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	394549	9.06	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	171135	11.6531	PPBV		88
3) FREON 152A	1.605	65	77494	10.2283	PPBV		98
4) CHLORODIFLUOROMETHANE	1.618	67	35741	10.8660	PPBV		94
5) CHLOROTRIFLUOROETHENE	1.627	116	181322	11.4566	PPBV		95
6) DICHLORODIFLUOROMETHANE	1.643	85	322402m	11.1201	PPBV		
7) PROPYLENE	1.627	41	102351	10.4376	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	305028	11.8251	PPBV		97
9) FREON 114	1.714	85	297273	9.9474	PPBV		89
10) CHLOROMETHANE	1.685	52	44241	10.6403	PPBV		94
11) VINYL CHLORIDE	1.746	62	141920m	9.6394	PPBV		
12) 1,3-BUTADIENE	1.785	54	124946	10.7442	PPBV		95
13) N-BUTANE	1.801	43	203908	10.3625	PPBV		99
14) BROMOMETHANE	1.859	94	104627	9.1647	PPBV		100
15) CHLOROETHANE	1.907	64	72681	9.0949	PPBV		96
16) DICHLOROFLUOROMETHANE	1.930	67	259804	9.3881	PPBV		98
17) ACETONITRILE	1.997	41	113449	8.2503	PPBV		100
18) ACROLEIN	2.033	56	69817	10.6882	PPBV		98
19) FREON 123	2.049	83	258886	9.2848	PPBV	#	92
20) FREON 123A	2.065	117	191187	11.5742	PPBV		81
21) TRICHLOROFLUOROMETHANE	2.129	101	361397	11.4771	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	288850	10.8250	PPBV		97
23) ACETONE	2.071	58	79247	10.8624	PPBV		97
24) PENTANE	2.242	42	145755	10.0859	PPBV		97
25) IODOMETHANE	2.303	142	336392	11.6114	PPBV		95
26) 1,1-DICHLOROETHYLENE	2.328	96	114819	9.5658	PPBV		82
27) CARBON DISULFIDE	2.463	76	282418	8.2924	PPBV		94
28) ETHANOL	1.933	45	65460	9.2148	PPBV		98
29) BROMOETHENE	2.004	106	114437	9.9844	PPBV		100
30) ACRYLONITRILE	2.213	52	120870	11.7818	PPBV		100
31) METHYLENE CHLORIDE	2.367	84	94358	8.0193	PPBV		79
32) 3-CHLOROPROPENE	2.409	76	50024	7.7916	PPBV	#	63
33) FREON 113	2.463	151	208505	11.5325	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.688	96	111438	8.4384	PPBV		87
35) TERTIARY BUTYL ALCOHOL	2.338	59	279734	8.3909	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.795	73	307764	8.1926	PPBV		97
37) TETRAHYDROFURAN	3.470	72	46590	7.6472	PPBV		74
38) HEXANE	3.241	57	267447	10.5696	PPBV		95
39) VINYL ACETATE	2.830	86	29354	8.1297	PPBV		52
40) 1,1-DICHLOROETHANE	2.762	63	251386	9.8469	PPBV		97
41) METHYL ETHYL KETONE	2.923	72	52776	7.6438	PPBV	#	51
42) CIS-1,2-DICHLOROETHENE	3.116	96	121141	8.8434	PPBV		87
43) DIISOPROPYL ETHER	3.245	59	73691	10.2719	PPBV		94
44) ETHYL ACETATE	3.248	61	50331	10.3776	PPBV		98
45) METHYL ACRYLATE	3.235	55	336581	10.9928	PPBV	#	98
46) CHLOROFORM	3.264	83	249787	9.4536	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.746	57	311048	10.9832	PPBV		95
48) 1,1,1-TRICHLOROETHANE	3.823	97	281710	10.1163	PPBV		99
49) CARBON TETRACHLORIDE	4.238	117	333884	11.5737	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18504.D
Acq On : 12 Nov 2025 11:33 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:15:38 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50)	1,2-DICHLOROETHANE	3.663	62	215955	10.5139	PPBV		99
51)	BENZENE	4.129	78	319033	7.8711	PPBV		86
53)	CYCLOHEXANE	4.331	84	144020	8.8056	PPBV	#	67
54)	2,3-DIMETHYLPENTANE	4.589	71	72514	8.8905	PPBV	#	44
55)	TRICHLOROETHENE	5.016	95	166082	9.5258	PPBV		92
56)	1,2-DICHLOROPROPANE	4.785	63	157601	10.2272	PPBV		99
57)	DIBROMOMETHANE	4.746	174	162460	10.9348	PPBV		91
58)	ETHYL ACRYLATE	4.901	55	413573	11.9905	PPBV		99
59)	BROMODICHLOROMETHANE	4.962	83	283110	10.0503	PPBV		97
60)	2,2,4-TRIMETHYLPENTANE	5.106	57	834328	11.0533	PPBV		99
61)	1,4-DIOXANE	5.026	88	76801	9.3059	PPBV		84
62)	HEPTANE	5.418	43	268997	10.7930	PPBV		89
63)	METHYL METHACRYLATE	5.319	69	121709	8.6904	PPBV		82
64)	METHYL ISOBUTYL KETONE	6.039	58	159775	10.6903	PPBV		92
65)	CIS-1,3-DICHLOROPROPENE	5.939	75	213633	9.0412	PPBV		95
66)	TOLUENE	7.129	91	428491	9.6531	PPBV		99
67)	1,3-DICHLOROPROPANE	7.190	76	210254	9.4479	PPBV		97
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	195477	9.1565	PPBV		97
69)	1,1,2-TRICHLOROETHANE	6.762	83	119033	9.4105	PPBV		91
70)	2-HEXANONE	7.695	58	211094	10.1223	PPBV		93
71)	ETHYL METHACRYLATE	7.830	69	207292	8.8732	PPBV		88
72)	TETRACHLOROETHENE	8.846	164	196372	12.1282	PPBV		99
73)	DIBROMOCHLOROMETHANE	7.663	129	329966	12.8366	PPBV		99
74)	1,2-DIBROMOETHANE	7.994	107	259765	11.3518	PPBV		100
75)	OCTANE	8.994	43	374894	11.2293	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	10.055	131	234874	12.1017	PPBV		96
78)	CHLOROBENZENE	10.042	112	379129	10.2611	PPBV		95
79)	ETHYLBENZENE	10.920	91	600287	9.9147	PPBV		98
80)	M,P-XYLENE	11.347	91	941790	19.2019	PPBV		96
81)	O-XYLENE	12.276	91	482114	10.1277	PPBV		100
82)	STYRENE	12.068	104	376513	10.5502	PPBV		99
83)	NONANE	13.395	43	398905	10.7652	PPBV		94
84)	BROMOFORM	11.154	173	297441	13.0280	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	317021	9.2970	PPBV		95
86)	1,2,3-TRICHLOROPROPANE	12.569	75	257722	9.6433	PPBV	#	100
88)	ISOPROPYLBENZENE	13.788	120	195969	10.8295	PPBV		92
89)	BROMOBENZENE	13.649	77	316371	9.1031	PPBV		81
90)	2-CHLOROTOLUENE	14.781	126	181607	10.7604	PPBV		99
91)	N-PROPYLBENZENE	15.125	120	207822	10.8205	PPBV		99
92)	4-ETHYLTOLUENE	15.569	105	738785	10.3941	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	629922	10.6487	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.173	118	317137	10.8100	PPBV		100
95)	TERT-BUTYLBENZENE	16.495	134	158092	10.9615	PPBV		96
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	648415	11.0568	PPBV		96
97)	BENZYL CHLORIDE	16.598	91	456495	9.6353	PPBV		98
98)	M-DICHLOROBENZENE	16.569	146	442111	10.9730	PPBV		98
99)	P-DICHLOROBENZENE	16.662	146	451836	11.3808	PPBV		98
100)	O-DICHLOROBENZENE	16.987	146	420376	11.2476	PPBV		98
101)	SEC-BUTYLBENZENE	16.813	134	193551	11.2700	PPBV		93
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	628363	10.6885	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.009	134	212476	11.1311	PPBV		94
104)	N-BUTYLBENZENE	17.376	134	210634	11.5744	PPBV		86
105)	HEXACHLOROETHANE	17.556	117	263729	11.7632	PPBV		99
106)	HEXACHLOROBUTADIENE	18.620	225	330739	12.4430	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.308	180	403564	12.6594	PPBV		99
108)	NAPHTHALENE	18.357	128	1001926	14.0106	PPBV		100
110)	TVHC as equiv Pentane	2.242	TIC	697879	10.2134	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18504.D
Acq On : 12 Nov 2025 11:33 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:15:38 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

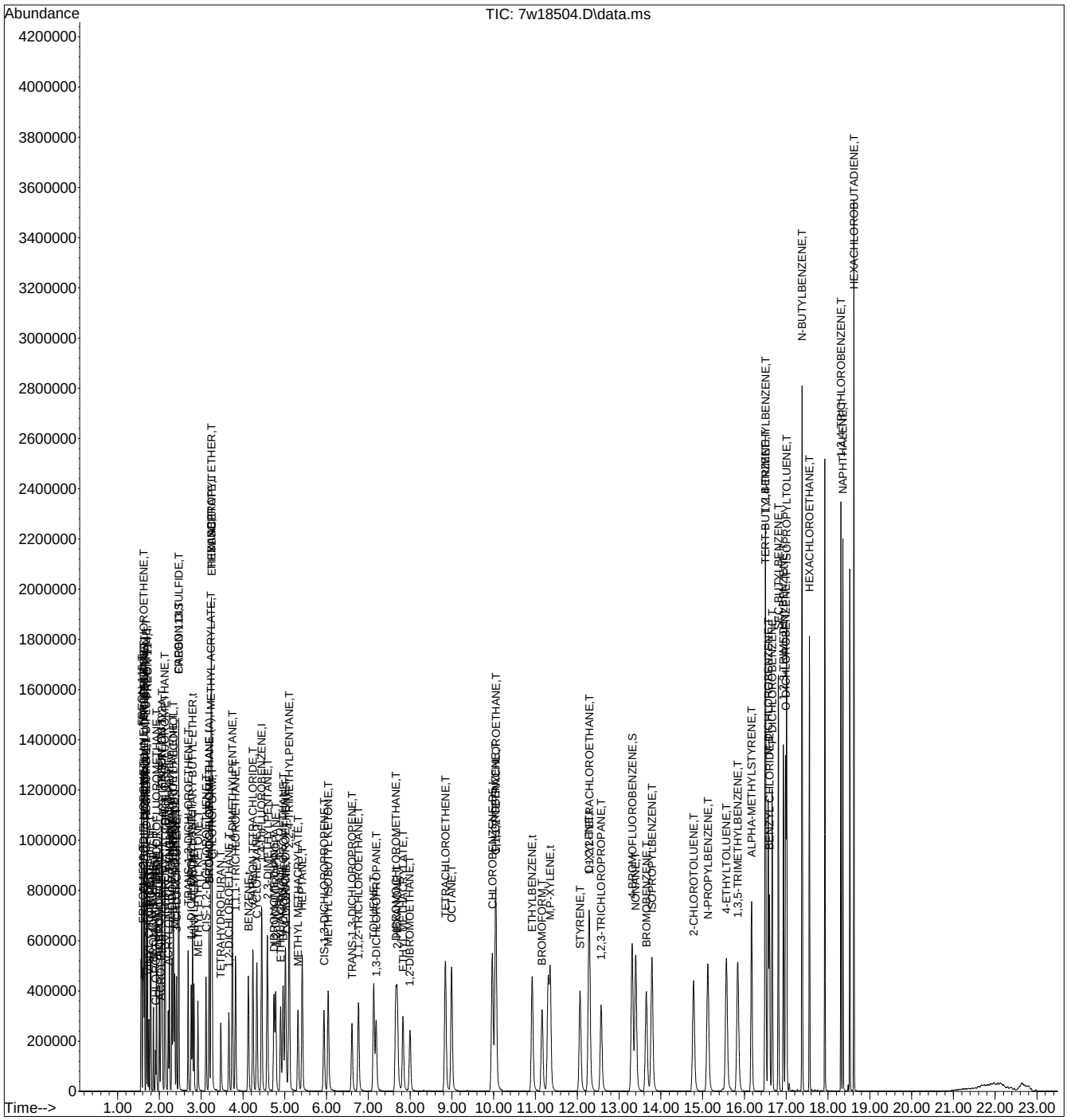
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18504.D
Acq On : 12 Nov 2025 11:33 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:15:38 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

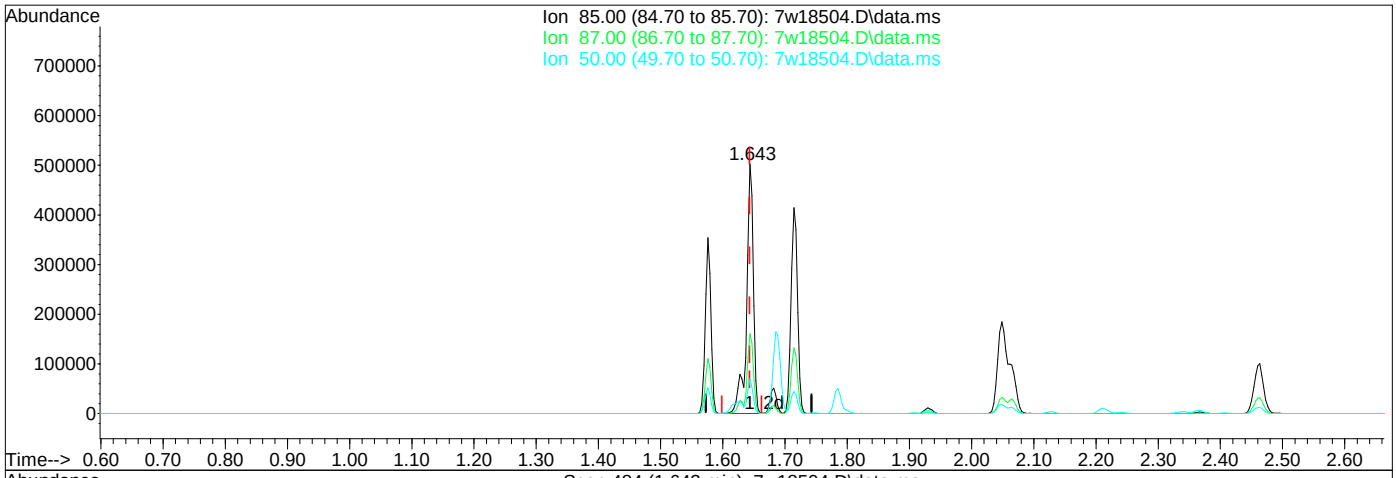
Sample Number: V7W647-CC577
Lab FileID: 7W18504.D
Injection Time: 11/12/25 11:33
Method: TO-15
Analyst approved: 11/13/25 05:23 Geralyn Gomez
Supervisor approved: 11/13/25 17:36 Kanya Veerawat

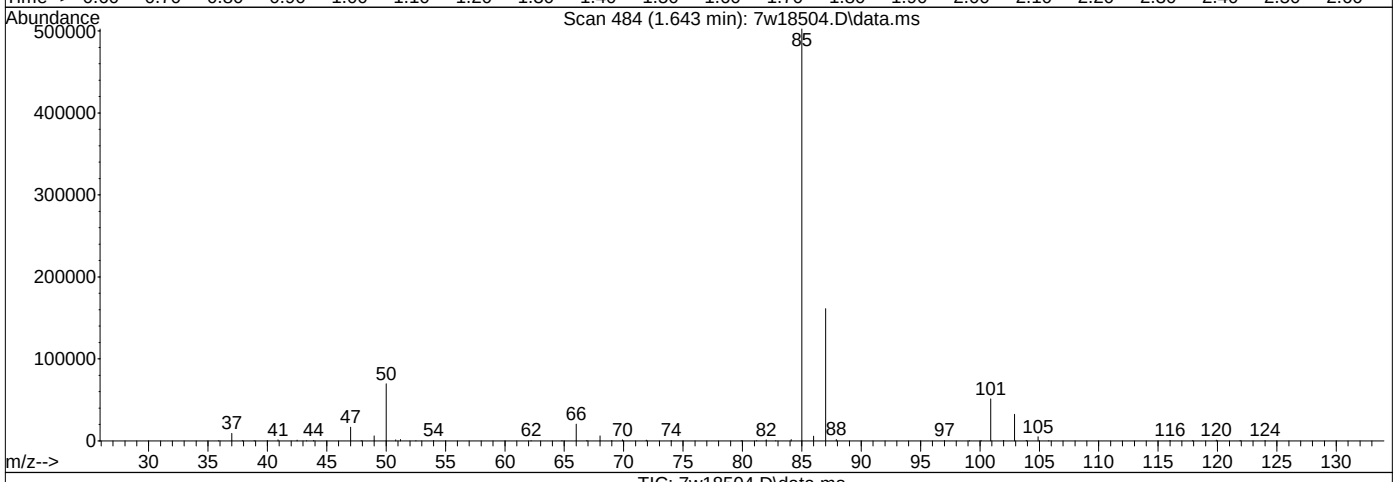
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak
Vinyl chloride	75-01-4		1.75	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18504.D
Acq On : 12 Nov 2025 11:33 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:06:40 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18504.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 13.05PPBV

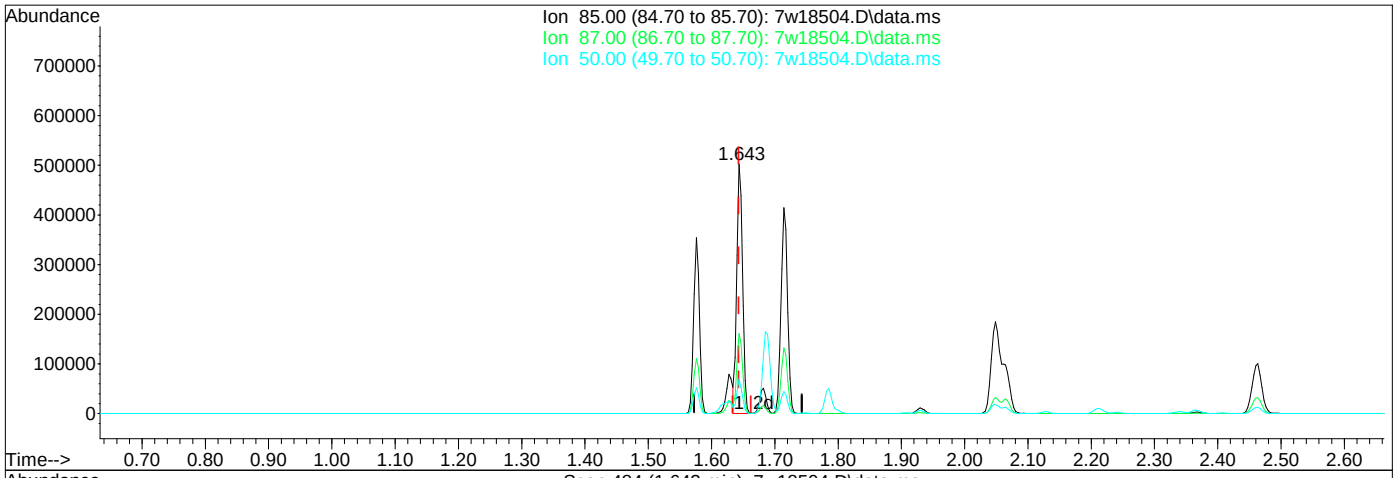
response 378352

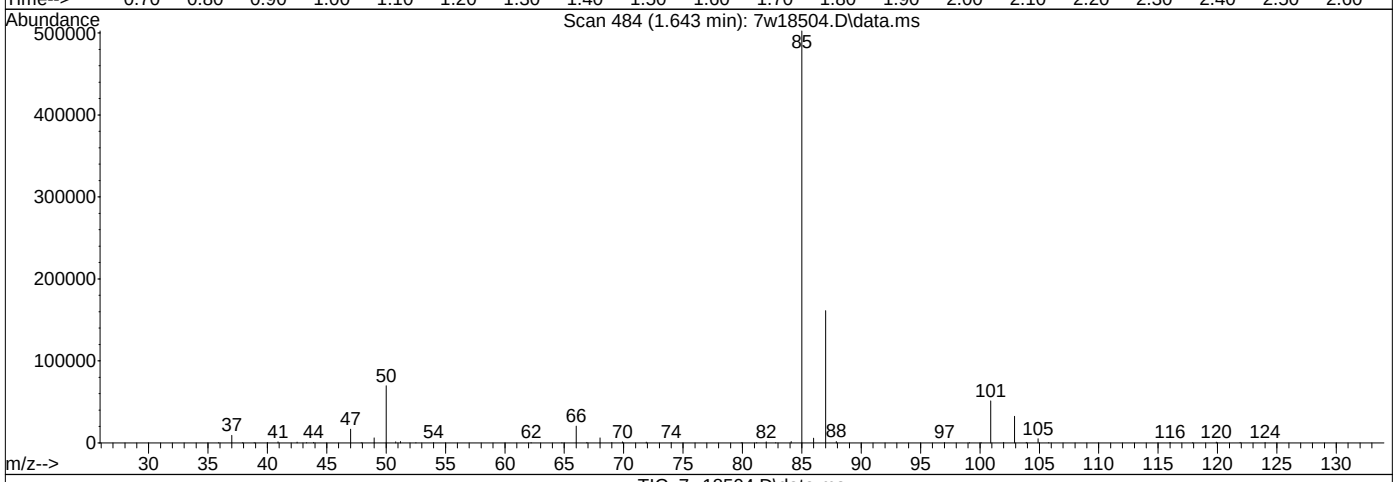
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.61
50.00	19.30	19.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18504.D
Acq On : 12 Nov 2025 11:33 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:06:40 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18504.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 11.12PPBV m

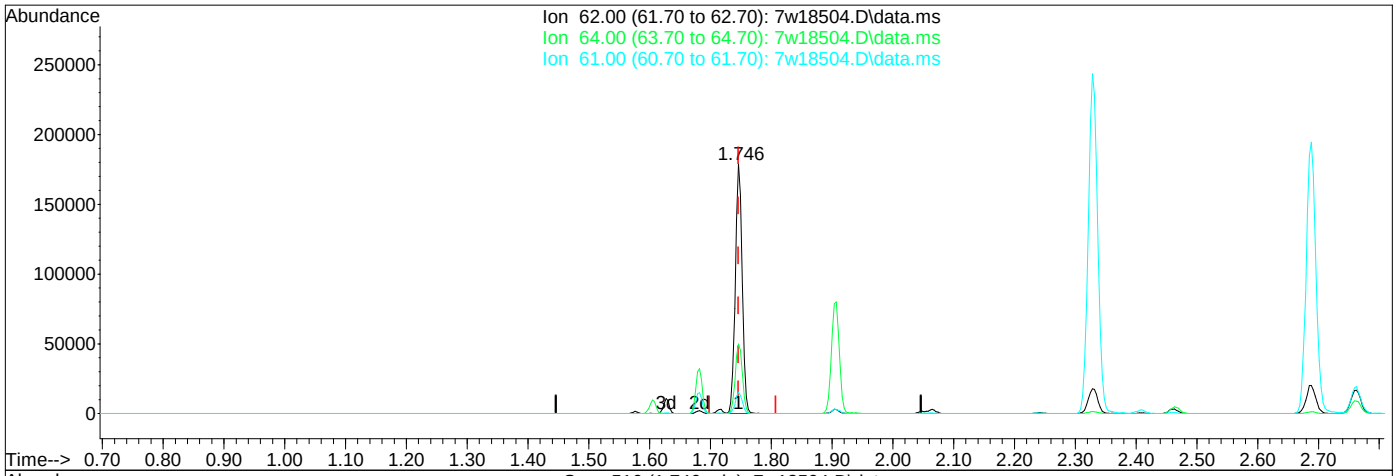
response 322402

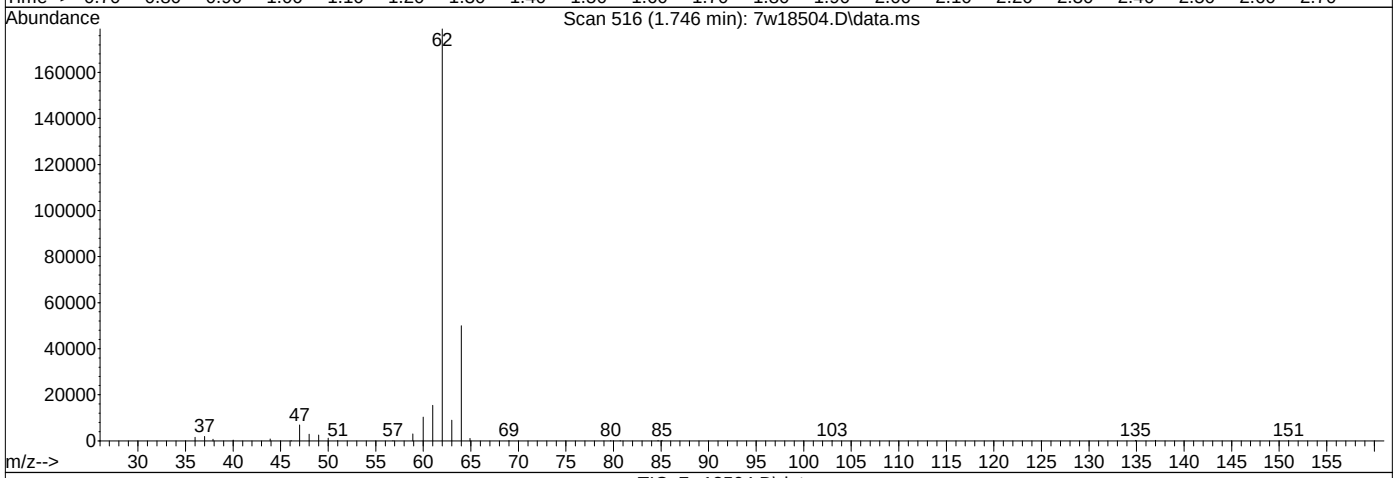
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	38.27
50.00	19.30	22.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18504.D
Acq On : 12 Nov 2025 11:33 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:06:40 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18504.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 9.79PPBV

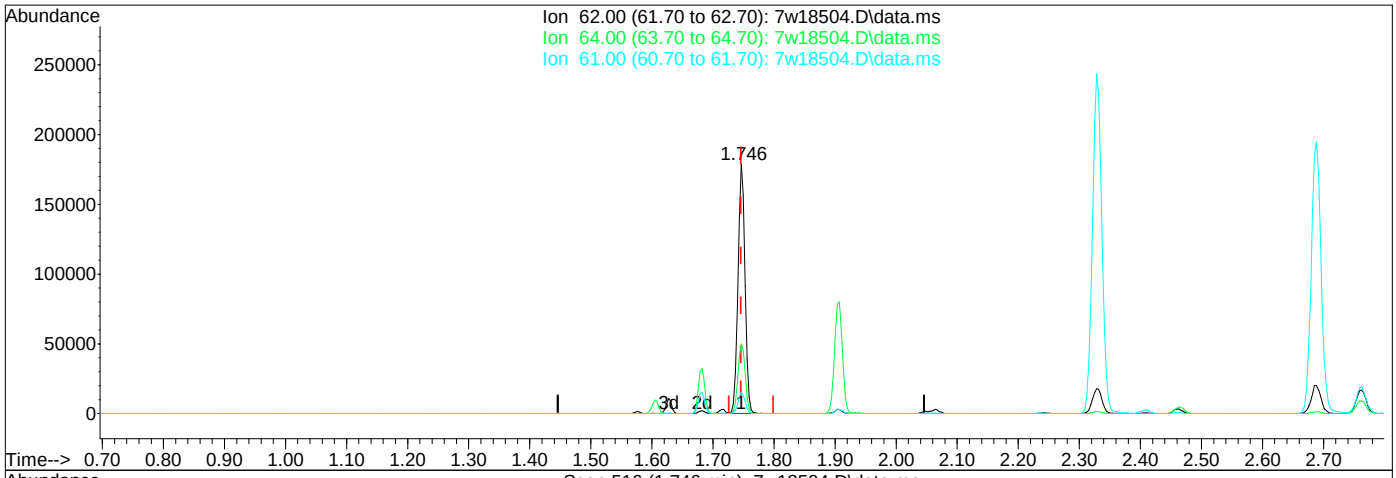
response 144158

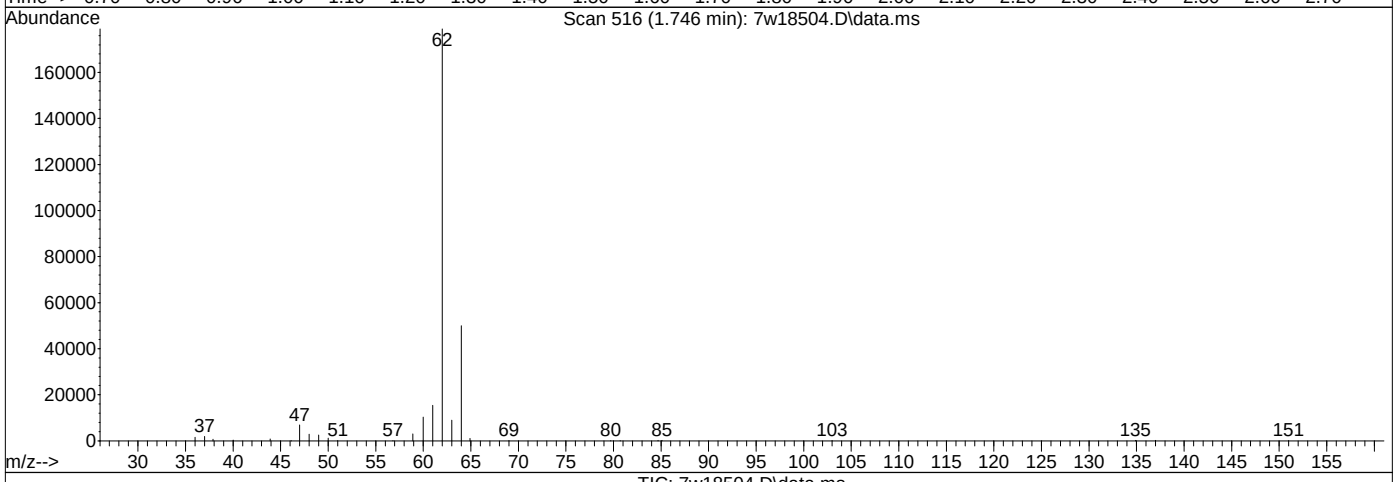
Ion	Exp%	Act%
62.00	100	100
64.00	30.50	28.71
61.00	8.10	8.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\geralyng\11-13-2025\V7W647\
Data File : 7w18504.D
Acq On : 12 Nov 2025 11:33 am
Operator : thomash
Sample : cc577-10 Inst : MS7W
Misc : MS99029,v7w647,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 13 17:06:40 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18504.D\data.ms

(11) VINYL CHLORIDE (T)

1.746min (+0.000) 9.64PPBV m

response 141920

Ion	Exp%	Act%
62.00	100	100
64.00	30.50	29.16
61.00	8.10	8.96
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/25/25 18:38

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:54:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.190	128	121736	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	577477	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.965	117	541499	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.190	128	121736	10.00	PPBV	#	0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.315	95	411407	9.44	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	163218	11.0523	PPBV		84
3) FREON 152A	1.605	65	66946	8.7870	PPBV		96
4) CHLORODIFLUOROMETHANE	1.618	67	34506	10.4323	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.628	116	173363	10.8929	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.644	85	336062m	11.5269	PPBV		
7) PROPYLENE	1.628	41	77638	7.8734	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	316662	12.2079	PPBV		95
9) FREON 114	1.714	85	305749	10.1742	PPBV		89
10) CHLOROMETHANE	1.685	52	40501	9.6868	PPBV		88
11) VINYL CHLORIDE	1.747	62	143784	9.7118	PPBV		99
12) 1,3-BUTADIENE	1.785	54	115935	9.9140	PPBV		92
13) N-BUTANE	1.798	43	176392	8.9143	PPBV		96
14) BROMOMETHANE	1.856	94	115966	10.1015	PPBV		99
15) CHLOROETHANE	1.904	64	72717	9.0488	PPBV		98
16) DICHLOROFLUOROMETHANE	1.930	67	275722	9.9080	PPBV		98
17) ACETONITRILE	1.994	41	105246	7.6113	PPBV		100
18) ACROLEIN	2.033	56	68255	10.3910	PPBV		98
19) FREON 123	2.046	83	281916	10.0546	PPBV	#	96
20) FREON 123A	2.065	117	209037	12.5846	PPBV		78
21) TRICHLOROFLUOROMETHANE	2.126	101	388555	12.2710	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	288126	10.7379	PPBV		97
23) ACETONE	2.071	58	80216	10.9342	PPBV		89
24) PENTANE	2.238	42	133496	9.1863	PPBV		94
25) IODOMETHANE	2.300	142	351355	12.0605	PPBV		93
26) 1,1-DICHLOROETHYLENE	2.325	96	128854	10.6755	PPBV		93
27) CARBON DISULFIDE	2.460	76	313951	9.1671	PPBV		97
28) ETHANOL	1.933	45	60248	8.4340	PPBV		99
29) BROMOETHENE	2.004	106	121517	10.5432	PPBV		99
30) ACRYLONITRILE	2.210	52	115506	11.1965	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	105578	8.9231	PPBV		94
32) 3-CHLOROPROPENE	2.406	76	54715	8.4750	PPBV		84
33) FREON 113	2.460	151	220065	12.1043	PPBV		93
34) TRANS-1,2-DICHLOROETHENE	2.685	96	126438	9.5211	PPBV		95
35) TERTIARY BUTYL ALCOHOL	2.335	59	292273	8.7183	PPBV		94
36) METHYL TERTIARY BUTYL ...	2.792	73	326551	8.6445	PPBV		99
37) TETRAHYDROFURAN	3.470	72	44483	7.2608	PPBV		98
38) HEXANE	3.238	57	230810	9.0711	PPBV		93
39) VINYL ACETATE	2.827	86	28321	7.8001	PPBV		87
40) 1,1-DICHLOROETHANE	2.759	63	258137	10.0551	PPBV		98
41) METHYL ETHYL KETONE	2.920	72	51401	7.4033	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.113	96	120966	8.7816	PPBV		96
43) DIISOPROPYL ETHER	3.245	59	65243	9.0438	PPBV		73
44) ETHYL ACETATE	3.248	61	44259	9.0750	PPBV		76
45) METHYL ACRYLATE	3.235	55	279228	9.0690	PPBV	#	99
46) CHLOROFORM	3.261	83	253094	9.5255	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	268205	9.4178	PPBV		97
48) 1,1,1-TRICHLOROETHANE	3.824	97	297418	10.6211	PPBV		97
49) CARBON TETRACHLORIDE	4.238	117	336364	11.5949	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:54:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.660	62	207500	10.0462	PPBV	98
51)	BENZENE	4.126	78	309117	7.5841	PPBV	94
53)	CYCLOHEXANE	4.332	84	141568	8.3794	PPBV	84
54)	2,3-DIMETHYLPENTANE	4.582	71	68696	8.1536	PPBV	65
55)	TRICHLOROETHENE	5.013	95	170433	9.4633	PPBV	96
56)	1,2-DICHLOROPROPANE	4.782	63	142389	8.9451	PPBV	95
57)	DIBROMOMETHANE	4.740	174	162885	10.6135	PPBV	90
58)	ETHYL ACRYLATE	4.898	55	344150	9.6593	PPBV	99
59)	BROMODICHLOROMETHANE	4.959	83	285146	9.7994	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	714173	9.1594	PPBV	99
61)	1,4-DIOXANE	5.023	88	71502	8.3872	PPBV	88
62)	HEPTANE	5.415	43	216644	8.4150	PPBV	92
63)	METHYL METHACRYLATE	5.312	69	116300	8.0391	PPBV	97
64)	METHYL ISOBUTYL KETONE	6.039	58	136172	8.8202	PPBV	86
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	212264	8.6965	PPBV	98
66)	TOLUENE	7.126	91	434856	9.4837	PPBV	98
67)	1,3-DICHLOROPROPANE	7.187	76	208991	9.0913	PPBV	98
68)	TRANS-1,3-DICHLOROPROPENE	6.608	75	195424	8.8618	PPBV	97
69)	1,1,2-TRICHLOROETHANE	6.766	83	116969	8.9522	PPBV	92
70)	2-HEXANONE	7.692	58	182109	8.4536	PPBV	87
71)	ETHYL METHACRYLATE	7.827	69	200971	8.3280	PPBV	98
72)	TETRACHLOROETHENE	8.843	164	200969	12.0159	PPBV	100
73)	DIBROMOCHLOROMETHANE	7.656	129	335714	12.6433	PPBV	98
74)	1,2-DIBROMOETHANE	7.997	107	256880	10.8674	PPBV	100
75)	OCTANE	8.994	43	299636	8.6886	PPBV	94
77)	1,1,1,2-TETRACHLOROETHANE	10.052	131	233052	11.9935	PPBV	97
78)	CHLOROBENZENE	10.042	112	392804	10.6185	PPBV	94
79)	ETHYLBENZENE	10.920	91	603300	9.9526	PPBV	99
80)	M,P-XYLENE	11.347	91	969920	19.7519	PPBV	99
81)	O-XYLENE	12.273	91	494786	10.3815	PPBV	99
82)	STYRENE	12.064	104	365107	10.2184	PPBV	100
83)	NONANE	13.399	43	320915	8.6502	PPBV	89
84)	BROMOFORM	11.158	173	295504	12.9277	PPBV	98
85)	1,1,2,2-TETRACHLOROETHANE	12.293	83	314107	9.2006	PPBV	98
86)	1,2,3-TRICHLOROPROPANE	12.572	75	255232	9.5388	PPBV	100
88)	ISOPROPYLBENZENE	13.781	120	195452	10.7880	PPBV	91
89)	BROMOBENZENE	13.650	77	315392	9.0641	PPBV	82
90)	2-CHLOROTOLUENE	14.775	126	179590	10.6282	PPBV	100
91)	N-PROPYLBENZENE	15.119	120	206909	10.7602	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	730050	10.2589	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.842	105	626747	10.5824	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.170	118	314364	10.7027	PPBV	99
95)	TERT-BUTYLBENZENE	16.495	134	152956	10.5927	PPBV	87
96)	1,2,4-TRIMETHYLBENZENE	16.508	105	658740	11.2195	PPBV	96
97)	BENZYL CHLORIDE	16.598	91	478022	10.0776	PPBV	99
98)	M-DICHLOROBENZENE	16.569	146	439667	10.8993	PPBV	100
99)	P-DICHLOROBENZENE	16.662	146	446018	11.2209	PPBV	99
100)	O-DICHLOROBENZENE	16.984	146	415961	11.1162	PPBV	99
101)	SEC-BUTYLBENZENE	16.810	134	187112	10.8821	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	633038	10.7552	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.006	134	206922	10.8273	PPBV	86
104)	N-BUTYLBENZENE	17.376	134	203488	11.1684	PPBV	95
105)	HEXACHLOROETHANE	17.553	117	251454	11.2024	PPBV	99
106)	HEXACHLOROBUTADIENE	18.617	225	338194	12.7083	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.305	180	419039	13.1291	PPBV	99
108)	NAPHTHALENE	18.354	128	1041304	14.5439	PPBV	99
110)	TVHC as equiv Pentane	2.238	TIC	675269	9.8277	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:54:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

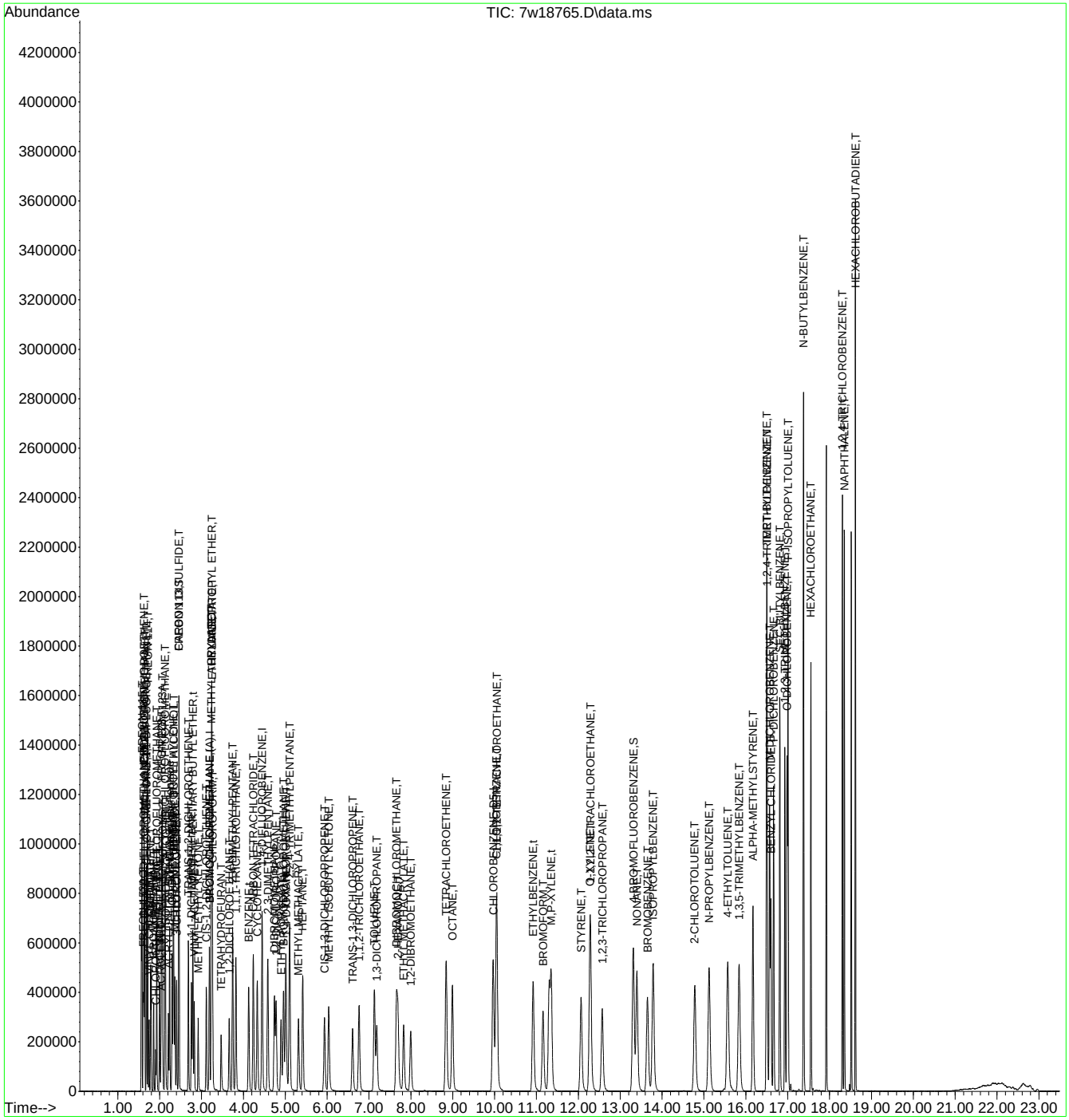
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 01:54:11 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V7W655-CC577
Lab FileID: 7W18765.D
Injection Time: 11/24/25 09:52

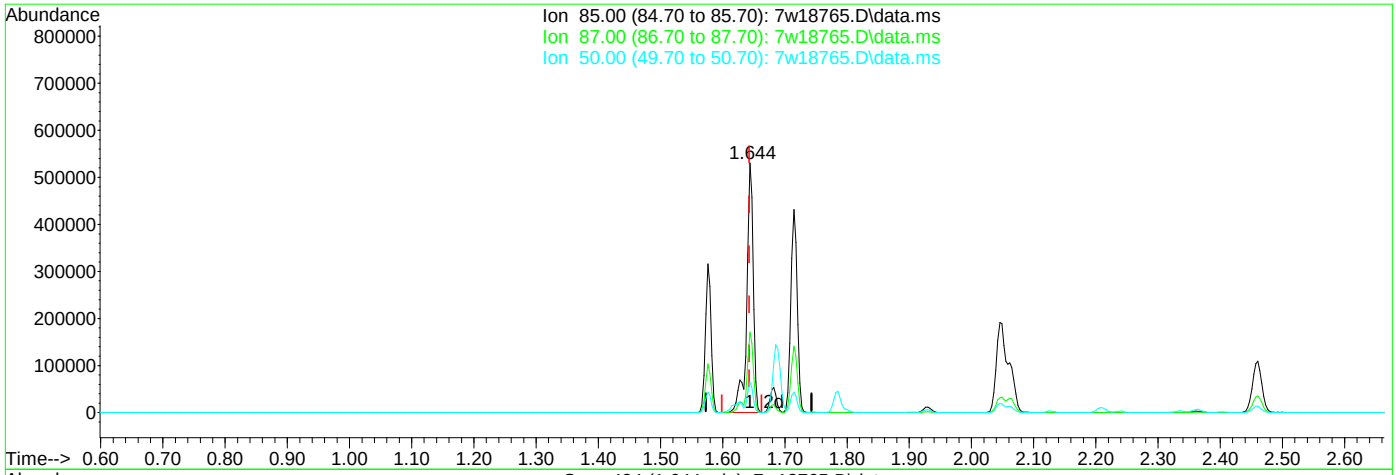
Method: TO-15
Analyst approved: 11/25/25 12:59 Claire Basilio
Supervisor approved: 11/25/25 18:38 Kanya Veerawat

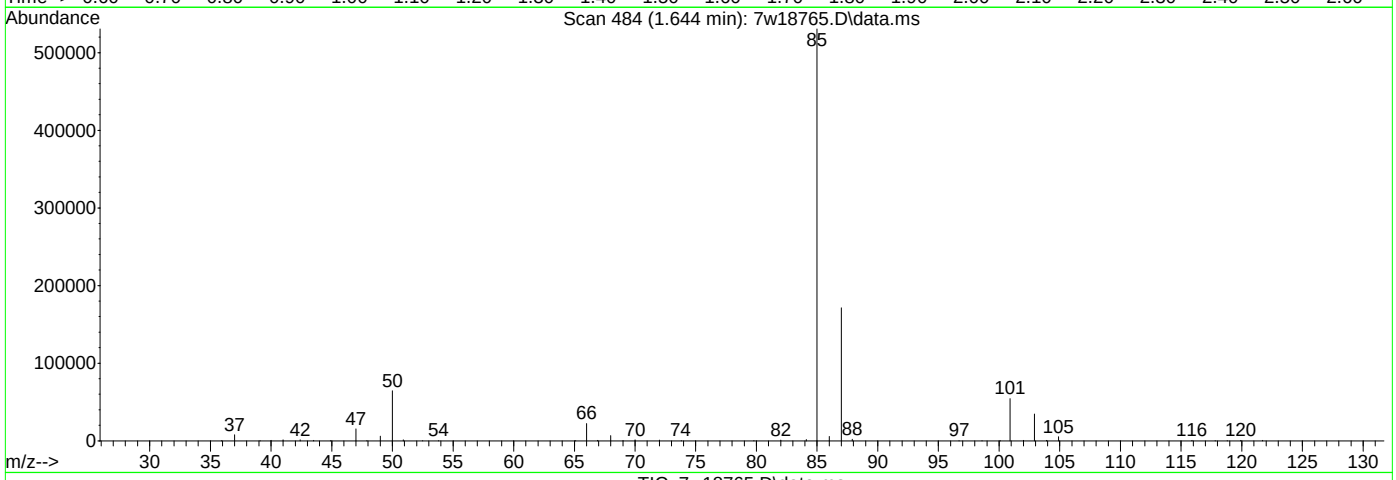
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:01:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18765.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 13.28PPBV

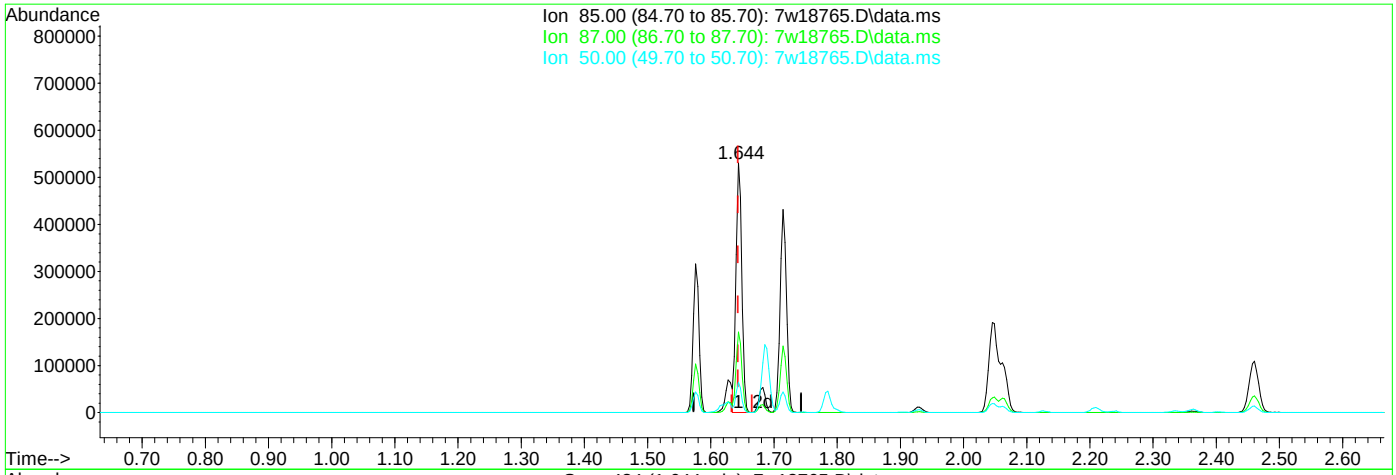
response 387246

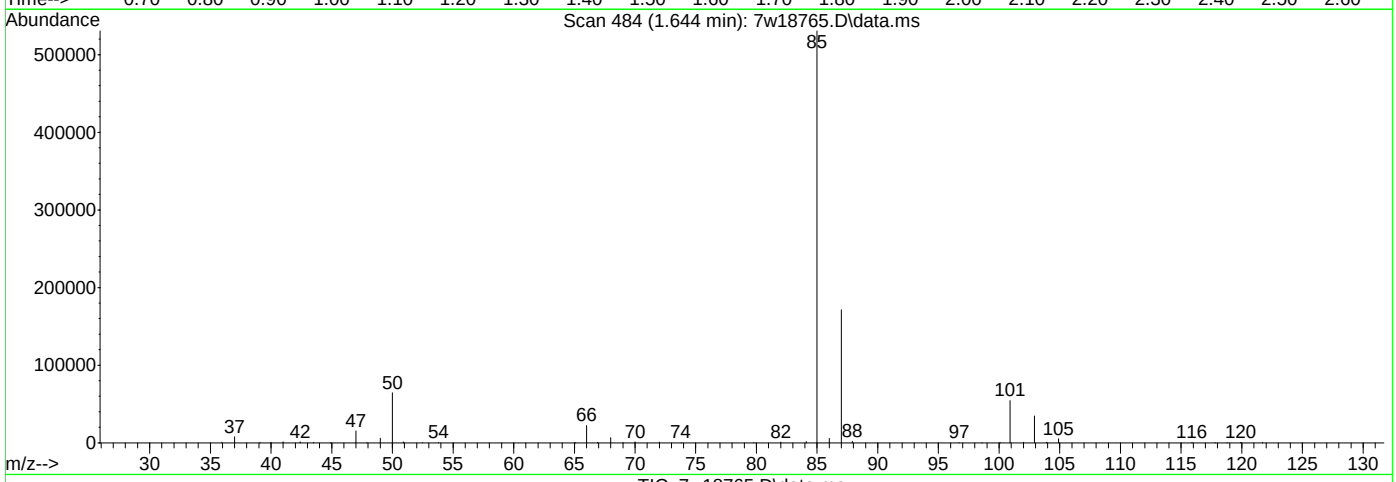
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.38
50.00	19.30	16.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-25-2025\V7W655\
Data File : 7w18765.D
Acq On : 24 Nov 2025 9:52 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w655,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 25 23:01:42 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration





TIC: 7w18765.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.644min (+0.001) 11.53PPBV m

response 336062

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.31
50.00	19.30	19.47
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/26/25 13:58

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025
Data File : 7w18798.D
Acq On : 25 Nov 2025 10:39 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:13:06 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.187	128	114749	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.447	114	530752	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	9.961	117	489106	10.00	PPBV		0.00
109) BROMOCHLOROMETHANE (A)	3.187	128	114749	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.309	95	376111	9.55	PPBV		0.00
Target Compounds							Qvalue
2) FREON 115	1.576	119	159215	11.4377	PPBV		83
3) FREON 152A	1.605	65	65708	9.1497	PPBV		100
4) CHLORODIFLUOROMETHANE	1.618	67	34459	11.0524	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.627	116	165484	11.0310	PPBV		99
6) DICHLORODIFLUOROMETHANE	1.643	85	306862m	11.1662	PPBV		
7) PROPYLENE	1.627	41	80833	8.6966	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.682	65	284226	11.6246	PPBV		94
9) FREON 114	1.714	85	275594	9.7291	PPBV		88
10) CHLOROMETHANE	1.685	52	33038	8.3829	PPBV		92
11) VINYL CHLORIDE	1.746	62	125311	8.9794	PPBV		98
12) 1,3-BUTADIENE	1.782	54	96983	8.7983	PPBV		91
13) N-BUTANE	1.798	43	144447	7.7444	PPBV		93
14) BROMOMETHANE	1.856	94	103946	9.6058	PPBV		100
15) CHLOROETHANE	1.904	64	64330	8.4926	PPBV		90
16) DICHLOROFLUOROMETHANE	1.930	67	244894	9.3360	PPBV		99
17) ACETONITRILE	1.994	41	78547	6.0263	PPBV		99
18) ACROLEIN	2.032	56	54646	8.8257	PPBV		99
19) FREON 123	2.045	83	252388	9.5496	PPBV	#	97
20) FREON 123A	2.061	117	188992	12.0706	PPBV		74
21) TRICHLOROFLUOROMETHANE	2.126	101	348290	11.6691	PPBV		99
22) ISOPROPYL ALCOHOL	2.142	45	216757	8.5700	PPBV		93
23) ACETONE	2.071	58	65006	9.4004	PPBV		83
24) PENTANE	2.238	42	103020	7.5208	PPBV		92
25) IODOMETHANE	2.299	142	322136	11.7309	PPBV		94
26) 1,1-DICHLOROETHYLENE	2.325	96	114683	10.0800	PPBV		98
27) CARBON DISULFIDE	2.460	76	275580	8.5367	PPBV		99
28) ETHANOL	1.933	45	48847	7.2543	PPBV		98
29) BROMOETHENE	2.003	106	109912	10.1170	PPBV		99
30) ACRYLONITRILE	2.209	52	89835	9.2383	PPBV		99
31) METHYLENE CHLORIDE	2.364	84	93623	8.3945	PPBV		92
32) 3-CHLOROPROPENE	2.405	76	48840	8.0256	PPBV		91
33) FREON 113	2.460	151	202503	11.8166	PPBV		91
34) TRANS-1,2-DICHLOROETHENE	2.685	96	115530	9.2294	PPBV		99
35) TERTIARY BUTYL ALCOHOL	2.338	59	243999	7.7215	PPBV		95
36) METHYL TERTIARY BUTYL ...	2.791	73	298790	8.3912	PPBV		98
37) TETRAHYDROFURAN	3.466	72	41105	7.1180	PPBV		84
38) HEXANE	3.238	57	233056	9.7171	PPBV		95
39) VINYL ACETATE	2.827	86	26022	7.6033	PPBV		74
40) 1,1-DICHLOROETHANE	2.759	63	226328	9.3529	PPBV		99
41) METHYL ETHYL KETONE	2.920	72	48977	7.4837	PPBV		75
42) CIS-1,2-DICHLOROETHENE	3.113	96	116204	8.9496	PPBV		92
43) DIISOPROPYL ETHER	3.241	59	64439	9.4763	PPBV		84
44) ETHYL ACETATE	3.248	61	44016	9.5747	PPBV		89
45) METHYL ACRYLATE	3.232	55	290102	9.9959	PPBV	#	99
46) CHLOROFORM	3.257	83	246402	9.8383	PPBV		98
47) 2,4-DIMETHYLPENTANE	3.743	57	265275	9.8821	PPBV		96
48) 1,1,1-TRICHLOROETHANE	3.820	97	288874	10.9441	PPBV		98
49) CARBON TETRACHLORIDE	4.235	117	319951	11.7007	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18798.D
Acq On : 25 Nov 2025 10:39 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:13:06 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.659	62	208855	10.7275	PPBV	98
51)	BENZENE	4.126	78	290877	7.5711	PPBV	92
53)	CYCLOHEXANE	4.331	84	129412	8.3342	PPBV	82
54)	2,3-DIMETHYLPENTANE	4.582	71	63441	8.1927	PPBV	68
55)	TRICHLOROETHENE	5.013	95	156043	9.4270	PPBV	95
56)	1,2-DICHLOROPROPANE	4.782	63	129814	8.8731	PPBV	93
57)	DIBROMOMETHANE	4.743	174	150310	10.6563	PPBV	91
58)	ETHYL ACRYLATE	4.897	55	315741	9.6421	PPBV	99
59)	BROMODICHLOROMETHANE	4.955	83	265658	9.9334	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.103	57	651173	9.0867	PPBV	99
61)	1,4-DIOXANE	5.026	88	66180	8.4464	PPBV	92
62)	HEPTANE	5.415	43	194906	8.2371	PPBV	91
63)	METHYL METHACRYLATE	5.315	69	104839	7.8848	PPBV	95
64)	METHYL ISOBUTYL KETONE	6.039	58	124584	8.7800	PPBV	86
65)	CIS-1,3-DICHLOROPROPENE	5.936	75	192827	8.5957	PPBV	99
66)	TOLUENE	7.129	91	392271	9.3081	PPBV	99
67)	1,3-DICHLOROPROPANE	7.183	76	190702	9.0261	PPBV	98
68)	TRANS-1,3-DICHLOROPROPENE	6.611	75	177594	8.7622	PPBV	97
69)	1,1,2-TRICHLOROETHANE	6.765	83	108206	9.0106	PPBV	92
70)	2-HEXANONE	7.691	58	164896	8.3285	PPBV	86
71)	ETHYL METHACRYLATE	7.830	69	181633	8.1893	PPBV	98
72)	TETRACHLOROETHENE	8.839	164	181393	11.8003	PPBV	97
73)	DIBROMOCHLOROMETHANE	7.659	129	308664	12.6479	PPBV	99
74)	1,2-DIBROMOETHANE	7.994	107	237453	10.9299	PPBV	100
75)	OCTANE	8.994	43	272013	8.5820	PPBV	94
77)	1,1,1,2-TETRACHLOROETHANE	10.048	131	216090	12.3119	PPBV	98
78)	CHLOROBENZENE	10.042	112	362243	10.8413	PPBV	93
79)	ETHYLBENZENE	10.920	91	558773	10.2055	PPBV	99
80)	M,P-XYLENE	11.347	91	890406	20.0750	PPBV	99
81)	O-XYLENE	12.276	91	457585	10.6294	PPBV	99
82)	STYRENE	12.064	104	335863	10.4069	PPBV	100
83)	NONANE	13.402	43	293995	8.7735	PPBV	89
84)	BROMOFORM	11.154	173	271414	13.1458	PPBV	97
85)	1,1,2,2-TETRACHLOROETHANE	12.292	83	288007	9.3397	PPBV	99
86)	1,2,3-TRICHLOROPROPANE	12.572	75	239547	9.9116	PPBV	100
88)	ISOPROPYLBENZENE	13.784	120	181579	11.0959	PPBV	94
89)	BROMOBENZENE	13.646	77	292711	9.3134	PPBV	82
90)	2-CHLOROTOLUENE	14.788	126	165863	10.8673	PPBV	98
91)	N-PROPYLBENZENE	15.119	120	190082	10.9440	PPBV	99
92)	4-ETHYLTOLUENE	15.566	105	678956	10.5630	PPBV	98
93)	1,3,5-TRIMETHYLBENZENE	15.839	105	582471	10.8884	PPBV	99
94)	ALPHA-METHYLSTYRENE	16.173	118	295069	11.1219	PPBV	99
95)	TERT-BUTYLBENZENE	16.498	134	143398	10.9946	PPBV	84
96)	1,2,4-TRIMETHYLBENZENE	16.505	105	620628	11.7027	PPBV	96
97)	BENZYL CHLORIDE	16.598	91	444622	10.3776	PPBV	99
98)	M-DICHLOROBENZENE	16.569	146	413206	11.3406	PPBV	99
99)	P-DICHLOROBENZENE	16.662	146	419680	11.6893	PPBV	99
100)	O-DICHLOROBENZENE	16.987	146	390731	11.5605	PPBV	99
101)	SEC-BUTYLBENZENE	16.813	134	176441	11.3607	PPBV	95
102)	1,2,3-TRIMETHYLBENZENE	16.932	105	594352	11.1797	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.009	134	195035	11.2985	PPBV	88
104)	N-BUTYLBENZENE	17.376	134	189675	11.5254	PPBV	95
105)	HEXACHLOROETHANE	17.553	117	234061	11.5445	PPBV	100
106)	HEXACHLOROBUTADIENE	18.620	225	305359	12.7036	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.308	180	382178	13.2569	PPBV	99
108)	NAPHTHALENE	18.353	128	949845	14.6876	PPBV	99
110)	TVHC as equiv Pentane	2.238	TIC	520401	8.0349	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18798.D
Acq On : 25 Nov 2025 10:39 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:13:06 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration

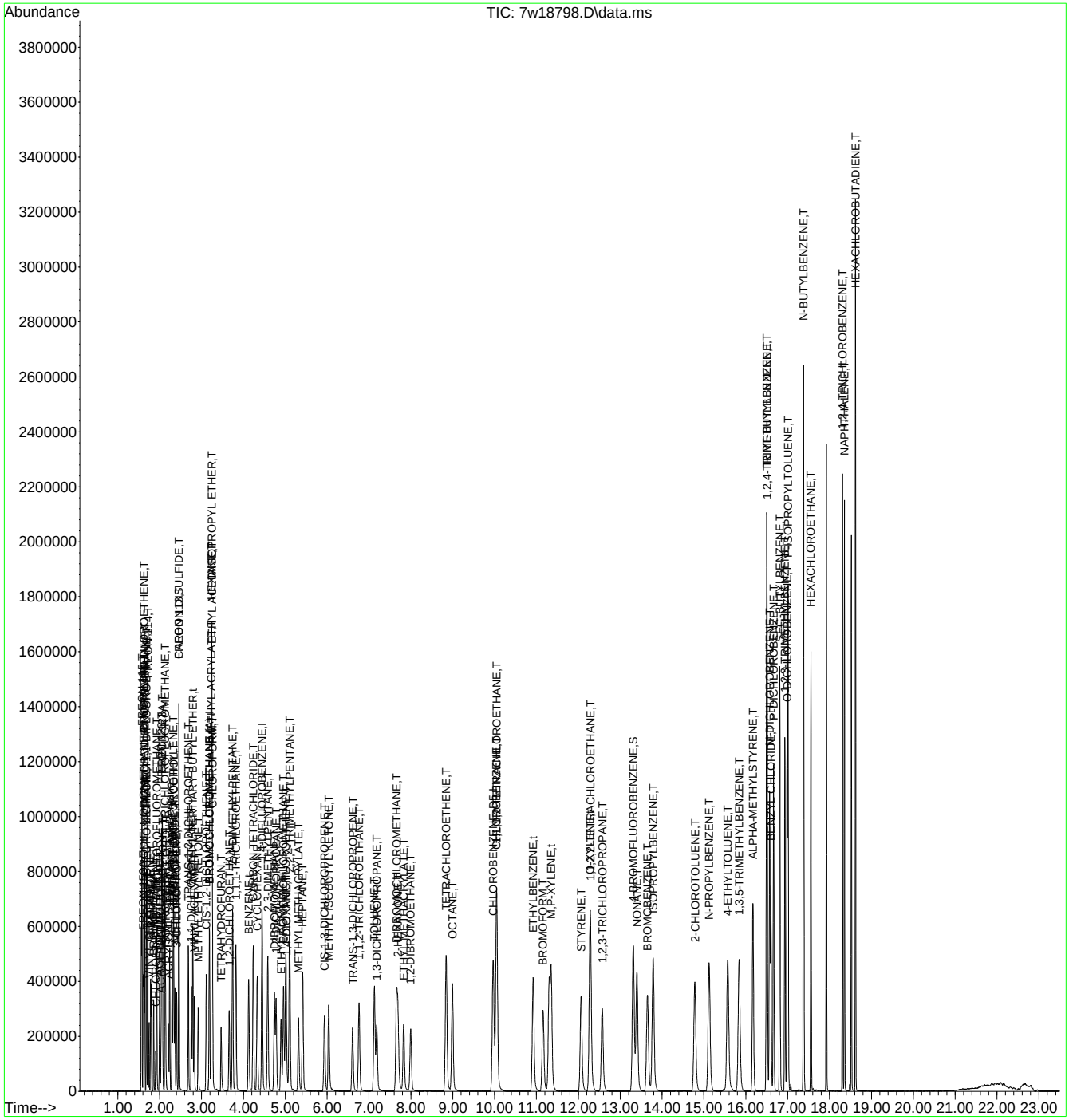
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18798.D
Acq On : 25 Nov 2025 10:39 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 01:13:06 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration



Manual Integration Approval Summary

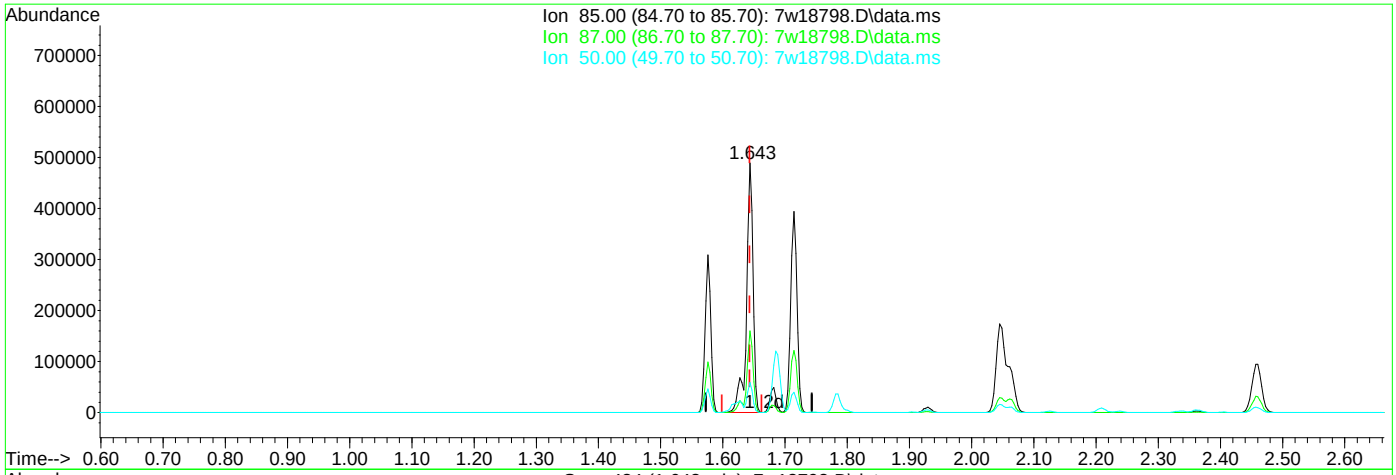
Sample Number: V7W656-CC577
Lab FileID: 7W18798.D
Injection Time: 11/25/25 10:39
Method: TO-15
Analyst approved: 11/26/25 12:45 Claire Basilio
Supervisor approved: 11/26/25 13:58 Kanya Veerawat

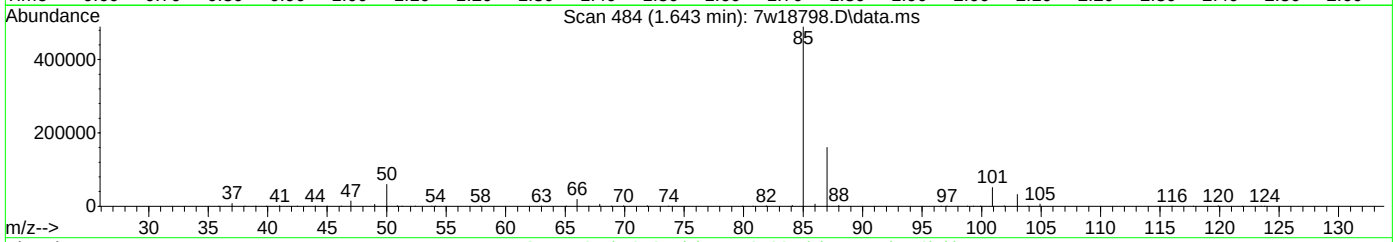
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.64	Overlapping peak

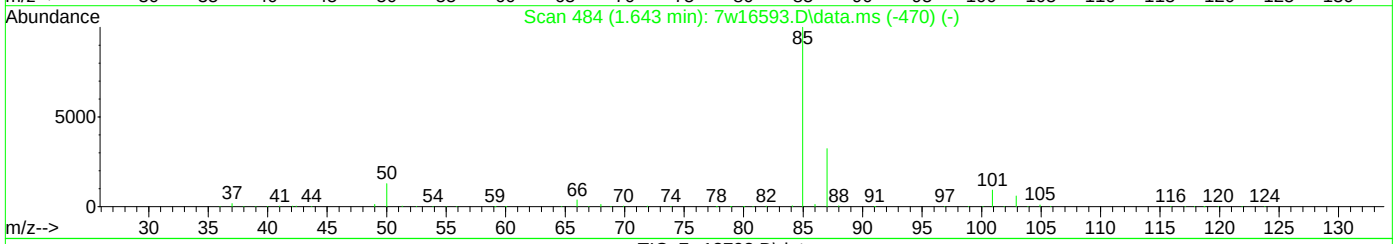
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18798.D
Acq On : 25 Nov 2025 10:39 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:25:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration







TIC: 7w18798.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 12.98PPBV

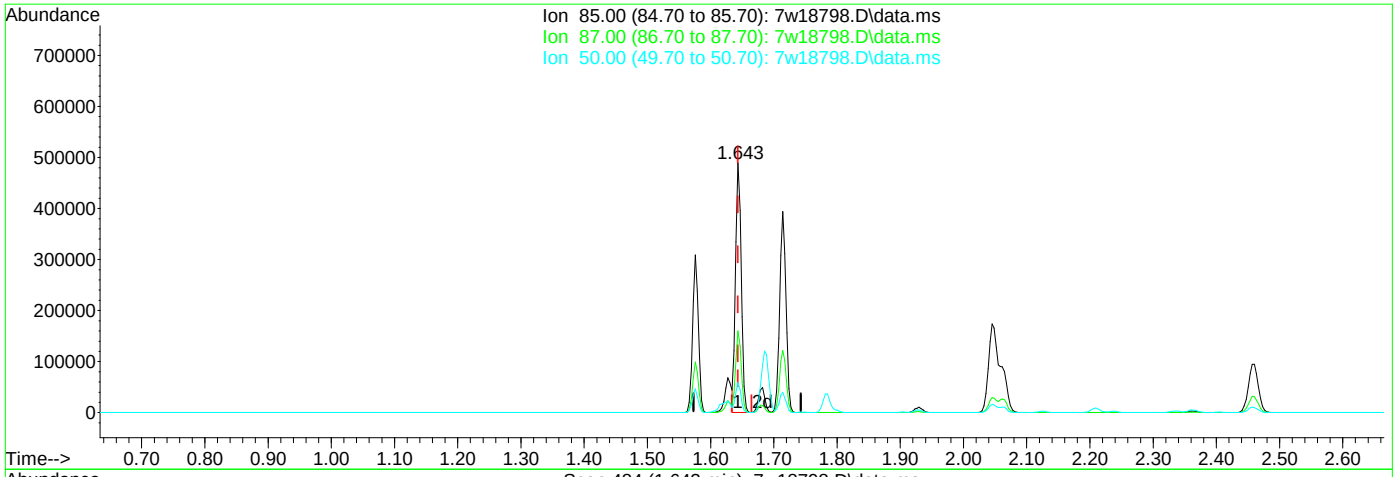
response 356593

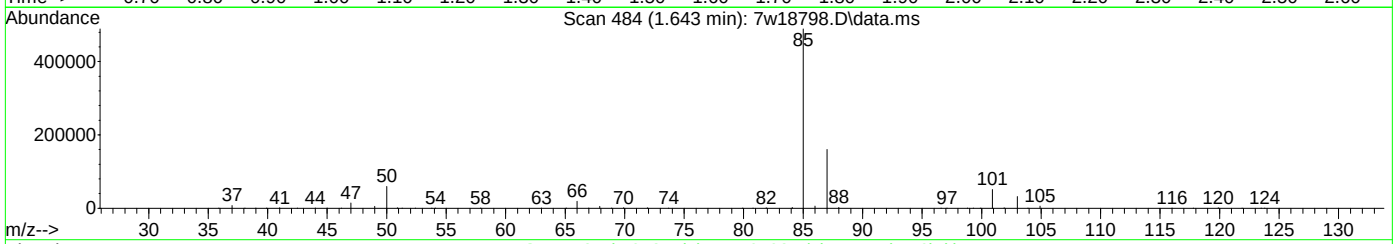
Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.31
50.00	19.30	17.48
0.00	0.00	0.00

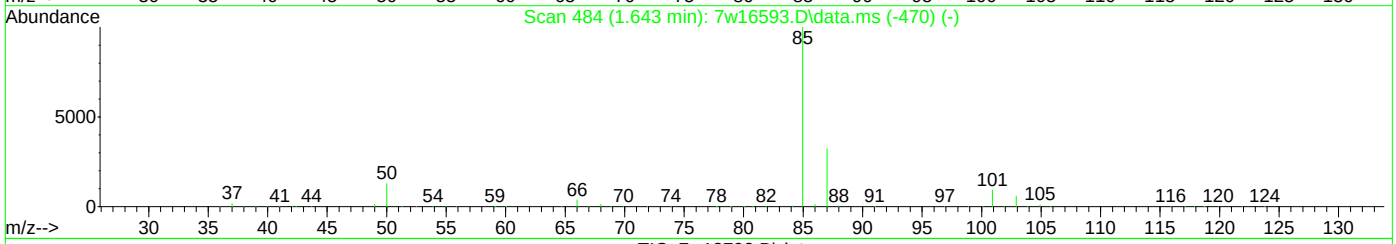
Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\Claireb\1. Batches\2025\11. November\11-26-2025\V7W656\
Data File : 7w18798.D
Acq On : 25 Nov 2025 10:39 am
Operator : williamc
Sample : cc577-10 Inst : MS7W
Misc : MS99437,v7w656,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 27 00:25:52 2025
Quant Method : C:\msdchem\1\methods\M7W577.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 08 16:08:21 2025
Response via : Initial Calibration







TIC: 7w18798.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.643min (+0.000) 11.17PPBV m

response 306862

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	37.55
50.00	19.30	20.31
0.00	0.00	0.00

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1796	AS10783	12/5/2025	0.40
TO-15 STD	A2035	AS10781	12/4/2025	4.0
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS	A1810	AS10784	12/6/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2292
Date: 11/6/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251106ical.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Benjamin Kim
Data Validator(s):
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	000	5w59763			A2039	0					-	
1-1	000	5w59764			A2039	0					-	
1-1	000	5w59765			A2039	0					-	
1-1	istd only	5w59766			A2039	0					-	
1-1	ib	5w59767			A2039	400					-	
1-2	bfb	5w59768			A1796	5					OK	T = 21:59
1-2	ic2292-0.04	5w59769			A1796	40			√	√	OK	
1-2	ic2292-0.1	5w59770			A1796	100			√	√	OK	
1-2	ic2292-0.2	5w59771			A1796	200			√	√	OK	
1-2	ic2292-0.5	5w59772			A1796	500					NOT USED	Method Development
1-1	ib	5w59773			A2039	200					-	
1-1	ib	5w59774			A2039	400					-	
1-3	ic2292-0.1	5w59775			A2035	10					NOT USED	Method Development
1-3	ic2292-0.2	5w59776			A2035	20					NOT USED	Method Development
1-3	ic2292-0.5	5w59777			A2035	50			√	√	OK	
1-3	ic2292-5	5w59778			A2035	500					NOT USED	Method Development
1-1	ib	5w59779			A2039	200					-	
1-1	ib	5w59780			A2039	400					-	
1-4	ic2292-0.5	5w59781			A1788	5					NOT USED	Method Development
1-4	ic2292-5	5w59782			A1788	50			√	√	OK	
1-4	icc2292-10	5w59783			A1788	100			√	√	OK	
1-4	ic2292-20	5w59784			A1788	200			√	√	OK	
1-4	ic2292-40	5w59785			A1788	400			√	√	OK	
1-4	ic2292-50	5w59786			A1788	500			√	√	OK	
1-4	ic2292-60	5w59787			A1788	500			√	√	OK	
1-1	ib	5w59788			A2039	400					-	
1-1	ib	5w59789			A2039	400					-	
1-5	icv2292-10	5w59790			A1810	100			√	√	OK	
1-1	ib	5w59791			A2039	200					-	
1-1	ib	5w59792			A2039	400					-	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V5W2301
Date: 11/24/2025
Laboratory Analyst: Benjamin Kim
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): Claire Basilio
Data Validator(s): Geralyn Gomez
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
1-1	bfb	5w60000			A1788	100					OK	T = 10:05
SS-4	cc2292-10	5w60001			A1788	100			√	√	OK	
SS-4	bs	5w60002			A1788	100			√	√	OK	
SS-4	bsd	5w60003			A1788	100			√	√	OK	
1-1	ib	5w60004			A2039	400					-	
1-1	mb	5w60005			A2039	400		+	√	√	OK	
1-2	je23789-1	5w60006	MS99437	NYSVLL, NAP	A1625	40	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3	5w60007	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK/DL	RR = 400cc
1-3	je23789-3dup	5w60008	MS99437	NYSVLL, NAP	A1590	100	1		√	√	OK	
1-4	je23790-1	5w60009	MS99437	NYSVLL, NAP	A259	400	1		√	√	OK	
1-5	je23790-3	5w60010	MS99437	NYSVLL, NAP	A1703	400	1		√	√	OK	
1-6	je23791-1	5w60011	MS99437	NYSVLL, NAP	A1167	400	1		√	√	OK/DL	↑ TCFM, RR = 4x
1-7	je23791-2	5w60012	MS99437	NYLL, NAP	A1657	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-8	je23791-3	5w60013	MS99437	NYSVLL, NAP	A655	400	1		√	√	OK	
1-9	je23791-4	5w60014	MS99437	NYLL, NAP	A215	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-10	je23793-1	5w60015	MS99437	NYSVLL, NAP	A1627	400	1		√	√	OK/DL	↑ Acetone, RR = 4x
1-11	je23793-2	5w60016	MS99437	NYLL, NAP	A1687	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-12	je23793-3	5w60017	MS99437	NYSVLL, NAP	A1764	400	1		√	√	OK	
1-13	je23793-4	5w60018	MS99437	NYLL, NAP	A1472	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-14	je23793-5	5w60019	MS99437	NYSVLL, NAP	M163	400	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-15	je23793-6	5w60020	MS99437	NYLL, NAP	A2086	500	1		√	√	OK/DL	↑ Acetone, RR = 10x
1-16	je23794-1	5w60021	MS99437	NYLL, NAP	A1654	500	1		√	√	OK	
1-4	je23794-2	5w60022	MS99437	NYLL, NAP	A247	500	1		√	√	OK	
1-5	je23940-1	5w60023	MS99497	NYLL	A2164	500	1		√	√	OK	
1-8	je23940-2	5w60024	MS99497	NYLL	A2097	500	1		√	√	OK	
1-12	je23836-1	5w60025	MS99497	STD+, NAP	A1333	400	1	+	√	√	RR	No Can Attached.
1-1	je23836-2	5w60026	MS99497	STD+, NAP	M262	400	1	+	√	√	OK	
1-2	je23789-1	5w60027	MS99437	NYSVLL, NAP	A1625	400	1		√	√	OK	
1-3	je23789-3	5w60028	MS99437	NYSVLL, NAP	A1590	400	1		√	√	OK	
1-6	je23791-1	5w60029	MS99437	NYSVLL, NAP	A1167	100	1		√	√	OK	
1-7	je23791-2	5w60030	MS99437	NYLL, NAP	A1657	50	1		√	√	OK/DL	↑ Acetone, RR = 20x
1-9	je23791-4	5w60031	MS99437	NYLL, NAP	A215	50	1				NOT USED	Past BFB Tune
1-10	je23793-1	5w60032	MS99437	NYSVLL, NAP	A1627	100	1				NOT USED	
1-11	je23793-2	5w60033	MS99437	NYLL, NAP	A1687	50	1				NOT USED	
1-13	je23793-4	5w60034	MS99437	NYLL, NAP	A1472	50	1				NOT USED	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	A1739	AS10551	12/17/2025	100
TO-15 STD	A1788	AS10771	11/27/2025	40
TO-15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: **V5W2301**
Date: **11/24/2025**
Laboratory Analyst: **Benjamin Kim**
Columns: Rtx-1 (60m x 0.32mm x 1.0um)
GCMS Method: 5WTO15A.M
Sequence File: 5W20251124.S
Initial Calibration Method: M5W2292.M
Concentrator Method: 5WTO15E.CTD3
Data Validator(s): **Claire Basilio**
Data Validator(s): **Geralyn Gomez**
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-5	prime-40std	7w16562			A967	20						
2-4	prime-4std	7w16563			A1806	20						
2-3	prime-0.4std	7w16564			A2035	20						
2-2	prime-40lcs	7w16565			A1796	20						
2-1	0	7w16566			A2039	0						
2-1	0	7w16567			A2039	0						
2-1	0	7w16568			A2039	0						
2-1	istd only	7w16569			A2039	0						
2-1	istd only	7w16570			A2039	0						
2-1	istd only	7w16571			A2039	0						
2-1	ib	7w16572			A2039	400						
2-1	bfb	7w16573			A2039	400					OK	T = 2:05 (8/7/25)
2-1	ib	7w16574			A2039	400						
2-1	ib	7w16575			A1796	1						
2-2	ic577-0.04	7w16576			A1796	40			√	√	OK	
2-2	ic577-0.1	7w16577			A1796	100			√	√	OK	
2-2	ic577-0.2	7w16578			A1796	200					NOT USED	Method development
2-2	ic577-0.5	7w16579			A1796	500					NOT USED	Method development
2-1	ib	7w16580			A2039	400					NOT USED	Method development
2-3	ib	7w16581			A2035	1						
2-3	ic577-0.1	7w16582			A2035	10					NOT USED	Method development
2-3	ic577-0.2	7w16583			A2035	20			√	√	OK	
2-3	ic577-0.5	7w16584			A2035	50			√	√	OK	
2-3	ic577-5.0	7w16585			A2035	500					NOT USED	Method development
2-1	ib	7w16586			A2039	400						
2-4	ib	7w16587			A1806	1						
2-4	ic577-0.5	7w16588			A1806	5					NOT USED	Method development
2-4	ic577-5.0	7w16589			A1806	50			√	√	OK	
2-4	icc577-10	7w16590			A1806	100			√	√	OK	
2-4	ic577-20	7w16591			A1806	200			√	√	OK	
2-4	ic577-40	7w16592			A1806	400			√	√	OK	
2-4	ic577-50	7w16593			A1806	500			√	√	OK	
2-4	ic577-60	7w16594			A1806	600			√	√	OK	
2-1	ib	7w16595			A2039	400						
2-1	ib	7w16596			A2039	400						
2-5	icv577-10	7w16597			A967	100			√	√	OK	
2-1	ib	7w16598			A2039	100						
2-1	ib	7w16599			A2039	100						
SS4	ib	7w16600			A1798	100						
2-1	ib	7w16601			A2039	100						

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1796	AS10721	9/5/2025	0.4
TO15 STD	A2035	AS10719	9/4/2025	4.0
TO15 STD	A1806	AS10716	8/28/2025	40
TO15 LCS	A967	AS10723	9/5/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W577
Date: 8/6/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250806ical.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Thomas Hilbig
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
	Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]											
Example:	Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.											
Notes:												

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	a1788	AS10741	10/8/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W613
Date: 9/26/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20250926.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Kristel Valladolid
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w17472			A1827	20					OK	t=10:25
SS4	cc577-10	7w17473			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bs	7w17474			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
SS4	bsd	7w17475			A1788	100			√	√	OK	BMF↑, HCBD↑,124TCB↑
2-1	ib	7w17476			A1827	100					-	
2-1	mb	7w17477			A1827	400		+	√	√	OK	
2-2	je19194-2	7w17478	ms97046	CHLFRM	A328	620	1.55		√	√	OK	
2-3	je19194-3	7w17479	ms97046	CHLFRM	A188	680	1.7		√	√	OK	
2-4	je19193-1	7w17480	ms97046	CHLFRM	A452	608	1.52		√	√	OK	
2-5	je19193-2	7w17481	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-5	je19193-2dup	7w17482	ms97046	CHLFRM	M112	640	1.6		√	√	OK	
2-11	scc,cp13198	7w17483			A053	400			√	√	OK	
2-12	scc,cp13198	7w17484			A1765	400			√	√	OK	
2-13	scc,cp13198	7w17485			A1644	400			√	√	OK	
2-14	scc,cp13199	7w17486			A1594	400			√	√	OK	
2-15	scc,cp13199	7w17487			A2121	400			√	√	OK	
2-16	scc,cp13199	7w17488			A737	400			√	√	OK	
A1	scc,cp13200	7w17489			A1412	100			√	√	OK	
A2	scc,cp13200	7w17490			A1428	100			√	√	OK	
A3	scc,cp13200	7w17491			A1439	100			√	√	OK	
A4	scc,cp13200	7w17492			A1881	100			√	√	OK	
A5	scc,cp13196	7w17493			A2380	100			√	√	OK	
A6	scc,cp13196	7w17494			A1574	100			√	√	OK	
A7	scc,cp13196	7w17495			A2211	100			√	√	OK	
A8	scc,cp13196	7w17496			A2321	100			√	√	OK	4:48

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	Initial	Sample ID	Canister SN	Vacuum at Time of Dilution (inHg)	Final Pressure (psig)	Dilution Factor	Canister SN	Canister Volume (cc)	Sample Volume Added (cc)	Final Pressure (psig)	Equivalent Total Volume (cc)	Dilution Factor	Final Canister Dilution Factor

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A977	AS10746	10/22/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W624
Date: 10/13/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251013.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Michaella Balido
Data Validator(s): Braian Casallas
Data Validator(s): Natalia Liberato

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-4	bfb	7w17800			Open position	400			v	v	OK	t = 10:41
SS4	cc577-10	7w17801			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bs	7w17802			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
SS4	bsd	7w17803			A977	100			v	v	OK	BMF↑, HCBD↑, 124TCB↑
2-1	ib	7w17804			A1827	100					-	
2-1	mb	7w17805			A1827	400		+	v	v	OK	
C1	je20658-5	7w17806	MS97882	NYSVLL	A1762	10	1.35		v	v	RR	Combine with previous data from batch v7w623
2-2	je20702-1	7w17807	MS97930	STD	A902	400	1		v	v	OK	
2-2	je20702-1dup	7w17808	MS97930	STD	A902	400	1		v	v	OK	
2-3	je20654-1	7w17809	MS97882	NYLL	M311	760	1.52		v	v	OK	
2-4	je20654-2	7w17810	MS97882	NYLL	A1168	790	1.58		v	v	OK	
2-5	je20654-3	7w17811	MS97882	NYLL	A1708	500	1		v	v	OK	
2-6	je20654-5	7w17812	MS97882	NYLL	A743	500	1		v	v	OK	
2-7	je20654-6	7w17813	MS97882	NYLL	A2109	800	1.6		v	v	OK	
2-8	je20654-8	7w17814	MS97882	NYLL	M272	800	1.65		v	v	OK	
2-9	je20654-9	7w17815	MS97882	NYLL	A1081	800	1.6		v	v	OK	
2-10	je20654-13	7w17816	MS97882	NYLL	A1357	800	1.7		v	v	OK	
2-11	je20700-1	7w17817	MS98033	STD	M127	400	1		v	v	OK	
C2	je20654-4	7w17818	MS97882	NYSVLL	M237	632	1.58		v	v	OK	
C3	je20654-10	7w17819	MS97882	NYSVLL	A1323	400	1		v	v	OK	
C4	je20654-11	7w17820	MS97882	NYSVLL	M053	660	1.65		v	v	OK	
C5	je20654-12	7w17821	MS97882	NYSVLL	A1194	640	1.6		v	v	OK	
C6	je20654-7	7w17822	MS97882	NYSVLL	A1055	40	1		v	v	OK	
A1	je20697-1	7w17823	MS98033	SL	A1963	100	1		v	v	OK	
A2	je20697-2	7w17824	MS98033	SL	A1569	100	1		v	v	OK	
A3	je20646-1	7w17825	MS97882	SL	A2442	40	1		v	v	/DL	Acetone ↑; RR = 10cc
A4	je20646-2	7w17826	MS97882	SL	A1925	10	1		v	v	OK	t = 6:55 am
2-13	scc,cp13206	7w17827			A1088	400			v	v	OK	
2-14	scc,cp13206	7w17828			A457	400			v	v	OK	
2-15	scc,cp13206	7w17829			A638	400			v	v	OK	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**
											0	#DIV/0!	**#DIV/0!**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1806	AS10770	11/27/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W647
Date: 11/12/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251112.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Geralyn Gomez
Data Validator(s): Braian Casallas

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w18502			A1827	20					RETUNE	
2-1	bfb	7w18503			A1827	20					OK	T = 10:56
SS4	cc577-10	7w18504			A1806	100			√	√	OK	
SS4	bs	7w18505			A1806	100			√	√	OK	
SS4	bsd	7w18506			A1806	100			√	√	OK	
2-1	ib	7w18507			A1827	400					-	
2-1	mb	7w18508			A1827	400		+	√	√	OK	
C1	scc,cp13217	7w18509			A793	100			√	√	OK	
C2	scc,cp13217	7w18510			M458	100			√	√	OK	
C3	scc,cp13217	7w18511			A625	100			√	√	OK	
C4	scc,cp13217	7w18512			A404	100			√	√	OK	
C5	scc,cp13217	7w18513			M449	100			√	√	OK	
C6	scc,cp13217	7w18514			A1234	100			√	√	OK	
A1	je22387-2	7w18515	MS98885	SL	A2352	240	2.40		√	√	OK	
A2	je22387-3	7w18516	MS98885	SL	A1404	221	2.21		√	√	OK	
A3	je22625-1	7w18517	MS99029	STD+, Nap	A2547	100	1	+	√	√	OK	
A3	je22625-1dup	7w18518	MS99029	STD+, Nap	A2547	100	1		√	√	OK	
A4	je22625-2	7w18519	MS99029	STD+, Nap	A2292	100	1	+	√	√	OK	
A5	je22625-3	7w18520	MS99029	STD+, Nap	A2303	100	1	+	√	√	OK	
A6	je22625-4	7w18521	MS99029	STD+, Nap	A2205	100	1	+	√	√	OK	
A7	je22625-5	7w18522	MS99029	STD+, Nap	A1558	100	1	+	√	√	OK	
A8	je22625-6	7w18523	MS99029	STD+, Nap	A2572	100	1	+	√	√	OK	
A9	je22625-7	7w18524	MS99029	STD+, Nap	A2277	100	1	+	√	√	OK	
A10	je22625-8	7w18525	MS99029	STD+, Nap	A1953	100	1	+	√	√	OK	
B1	je22776-1	7w18526	MS99064	NYSVLL, Nap	A2258	100	1		√	√	OK	
B2	je22776-2	7w18527	MS99064	NYSVLL, Nap	A2296	100	1		√	√	OK	
B3	je22776-3	7w18528	MS99064	NYSVLL, Nap	A2392	100	1		√	√	RR	PROPYLENE ↑
B4	je22776-4	7w18529	MS99064	NYSVLL, Nap	A1907	100	1		√	√	OK	
B5	je22253-1	7w18530	MS98855	STD	A1373	100	1		√	√	OK	
B6	je22253-2	7w18531	MS98855	STD	A2592	100	1		√	√	OK	
D5	je22874-1	7w18532	MS99094	NYLL3NG42A+20, F142B	A663	200	1	+	√	√	OK	
D7	je22234-1	7w18533	MS98775	SL	tbag,tbag	100	500		√	√	OK	
D8	je22234-2	7w18534	MS98775	SL	tbag,tbag	40	100		√	√	OK	
D9	je22234-3	7w18535	MS98775	SL	tbag,tbag	100	500		√	√	OK	T =8:19 am

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**
11/12/2025	TH	je22234-1	tbag			1.00	tbag		1		500	500	**500**
11/12/2025	TH	je22234-2	tbag			1.00	tbag		5		500	100	**100**
11/12/2025	TH	je22234-3	tbag			1.00	tbag		1		500	500	**500**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1806	AS10770	11/27/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W647
Date: 11/12/2025
Laboratory Analyst: Thomas Hilbig
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251112.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Geralyn Gomez
Data Validator(s): Braian Casallas

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1806	AS10770	11/27/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W655
Date: 11/24/2025
Laboratory Analyst: William Cruser
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251124.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Claire Basilio
Data Validator(s):
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w18764			open position	20			√	√	OK	t = 9:14
SS4	cc577-10	7w18765			a1806	100			√	√	OK	
SS4	bs	7w18766			A1806	100			√	√	OK	
SS4	bsd	7w18767			A1806	100			√	√	OK	
2-1	ib	7w18768			a2039	100					-	
2-1	mb	7w18769			a2039	400		+	√	√	OK	
2-2	scc,cp13240	7w18770			a1790	400					NG	PCE hit
2-3	scc,cp13240	7w18771			a1091	400					NG	PCE hit
2-4	scc,cp13240	7w18772			a2154	400			√	√	NG	PCE hit
2-5	scc,cp13241	7w18773			a1582	400			√	√	NG	PCE hit
2-6	scc,cp13241	7w18774			a081	400			√	√	NG	PCE hit
2-7	scc,cp13241	7w18775			a003	400			√	√	NG	PCE hit
a1	je23787-3	7w18776	MS99437	NYSVLL	a2219	100	1		√	√	OK	
a1	je23787-3dup	7w18777	MS99437	NYSVLL	a2219	100	1		√	√	OK	
2-8	je23493-2	7w18778	MS99316	STD	a1783	400	1		√	√	OK	
2-9	je23493-3	7w18779	MS99316	STD	m141	400	1		√	√	OK	
2-10	je23494-1	7w18780	MS99316	STD+, NAP	a1320	100	1	+	√	√	OK	
2-11	je23494-2	7w18781	MS99316	STD+, NAP	a1581	400	1	+	√	√	RR/DL	↑ PCE, RR = 10x
2-13	je23494-3	7w18782	MS99316	STD+, NAP	a086	400	1	+	√	√	OK	
2-14	je23789-2	7w18783	MS99437	NYLL, NAP	m097	500	1		√	√	RR/DL	↑ Acetone, RR = 5cc
2-15	je23789-4	7w18784	MS99437	NYLL, NAP	a2165	500	1		√	√	OK	
2-16	je23790-2	7w18785	MS99437	NYLL, NAP	a1705	500	1		√	√	OK	
2-1	je23790-4	7w18786	MS99437	NYLL, NAP	a748	500	1		√	√	OK	
a2	je23495-1	7w18787	MS99316	STD+	a1533	100	1	+	√	√	OK	
a3	je23495-2	7w18788	MS99316	STD+	a1957	100	1	+	√	√	OK	
a4	je23495-3	7w18789	MS99316	STD+	a1902	100	1	+	√	√	OK	
a5	je23785-1	7w18790	MS99437	STD	a2394	100	1		√	√	OK	
a6	je23785-2	7w18791	MS99437	STD	a1983	100	1		√	√	OK	
a7	je23785-3	7w18792	MS99437	STD	a2267	100	1		√	√	OK	
a8	je23785-4	7w18793	MS99437	STD	a1548	100	1		√	√	OK	
C2	je23744-1	7w18794	MS99437	NYLL3NG42A+20, F142B	A2160	500	1		√	√	OK	
2-11	je23494-2	7w18795	MS99316	STD+, NAP	a1581	40	1	+	√	√	OK	
2-14	je23789-2	7w18796	MS99437	NYLL, NAP	m097	5	1		√	√	OK	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

SGS

MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	**SN**	**Lot Number**	**Expiration Date**	**Concentration (ppbv)**
Internal/Surrogate	1738	AS10585	2/11/2026	100
TO15 STD	A1806	AS10770	11/27/2025	40
TO15 LCS (Stock)	CC-237343	AS10673	5/29/2026	1000
TO-15 STD (Stock)	CC-143274	AS10672	5/29/2026	1000

Batch ID: V7W656
Date: 11/25/2025
Laboratory Analyst: William Cruser
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SPLIT.M
Sequence File: 7W20251125.S
Initial Calibration Method: M7W577.M
Concentrator Method: 7WTO15G.7200A.CTD
Data Validator(s): Claire Basilio
Data Validator(s):
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	Areas SS	STATUS	COMMENTS
2-1	bfb	7w18797			open position	20			√	√	OK	t=10:02
SS4	cc577-10	7w18798			a1806	100			√	√	OK	
SS4	bs	7w18799			a1806	100			√	√	OK	
SS4	bsd	7w18800			a1806	100			√	√	OK	
2-1	ib	7w18801			a2039	100					-	
2-1	mb	7w18802			a2039	400			√	√	OK	
2-2	je24006-1	7w18803	MS99535	STD	a2057	400	1		√	√	OK	
2-2	je24006-1dup	7w18804	MS99535	STD	a2057	400	1		√	√	OK	
c1	je23789-2	7w18805	MS99437	NYLL	m097,m327	200	160		√	√	OK	
c2	je23789-4	7w18806	MS99437	NYLL	a2165,m332	400	155		√	√	OK	
c3	je23787-1	7w18807	MS99437	NYSVLL	a1569,m206	80	236		√	√	OK	
c4	je23787-2	7w18808	MS99437	NYSVLL	a1566,a551	80	230		√	√	OK	
2-1	ib	7w18809			a2039	20					-	
c5	je23494-3	7w18810	MS99316	STD+, NAP	a086	400	1	+	√	√	OK	
2-3	je24005-1	7w18811	MS99533	STD+, NAP	m033	400	1	+	√	√	OK	
2-4	je24005-2	7w18812	MS99533	STD+, NAP	a2068	400	1	+	√	√	OK	
2-5	je24005-3	7w18813	MS99533	STD+, NAP	a640	400	1	+	√	√	OK	
2-6	je24005-4	7w18814	MS99533	STD+, NAP	a1780	400	1	+	√	√	OK	
2-7	je24005-5	7w18815	MS99533	STD+, NAP	a377	400	1	+	√	√	OK	
2-8	je24005-6	7w18816	MS99533	STD+, NAP	a1172	400	1	+	√	√	OK	
2-9	je24005-7	7w18817	MS99533	STD+, NAP	a2081	400	1	+	√	√	OK	
2-10	je24005-8	7w18818	MS99533	STD+, NAP	a1085	400	1	+	√	√	OK	
2-11	je24005-9	7w18819	MS99533	STD+, NAP	a2137	400	1	+	√	√	OK	
a1	je24005-10	7w18820	MS99533	STD+, NAP	a2389	20	1	+	√	√	RR/DL	†THF
a2	je24005-11	7w18821	MS99533	STD+, NAP	a2426	20	1	+	√	√	RR/DL	†THF
a3	je24005-13	7w18822	MS99533	STD+, NAP	a1368	20	1	+	√	√	RR/DL	†THF
a4	je24005-14	7w18823	MS99533	STD+, NAP	a2577	20	1	+	√	√	RR/DL	†THF
a5	je24005-16	7w18824	MS99533	STD+, NAP	a2559	20	1	+	√	√	OK	
1-1	ib	7w18825			a2039	20					DID NOT RUN	Analyst stopped sequence, did not run
1-1	ib	7w18826			a2039	20					DID NOT RUN	

CANISTER SECONDARY DILUTION LOG

Pressure Gauge ID: TG -		5	Original Canister Dilution				Secondary Canister Dilution						
Date	**Initial**	**Sample ID**	**Canister SN**	**Vacuum at Time of Dilution (inHg)**	**Final Pressure (psig)**	**Dilution Factor**	**Canister SN**	**Canister Volume (cc)**	**Sample Volume Added (cc)**	**Final Pressure (psig)**	**Equivalent Total Volume (cc)**	**Dilution Factor**	**Final Canister Dilution Factor**
11/25/25	wc	je23789-2	m097	10.0	1.0	1.60	m327	1000	20	14.7	2000	100	**160**
11/25/25	wc	je23789-4	a2165	9.0	1.2	1.55	m332	1000	20	14.7	2000	100	**155**
11/25/25	wc	je23787-1	a1569	2.5	1.1	1.18	m206	1000	10	14.7	2000	200	**236**
11/25/25	wc	je23787-2	a1566	2.0	1.1	1.15	a551	1000	10	14.7	2000	200	**230**

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF)
Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:

Appendix E – Data Usability Summary Report

Groundwater & Environmental Services, Inc.

Data Usability Report for Regency Centers

November 2025 Sampling Event

Prepared for

Prepared by

Groundwater & Environmental Services
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December 2025

The GES Advantage

Knowledge. Innovation. Results

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1. Introduction

Groundwater & Environmental Services, Inc. (GES) is pleased to submit this data validation report regarding the sampling event conducted at the Carmel ShopRite Plaza (site) on November 18, 2025. Twenty (20) air samples were collected in 6-Liter Summa Canisters. The samples were sent to SGS located in Dayton, New Jersey. The samples were analyzed for Volatile Organic Compounds (VOCs) via EPA Method TO-15 using GC/MS in the Full Scan Mode.

The analytical results were validated using laboratory acceptance criteria, procedures and guidelines contained in the following documents: The United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (USEPA November, 2020). Also referenced for procedures were the Hazardous Waste Support Section EPA Method TO-15 data validation checklist (USEPA, 2016). Items reviewed were sample dilutions, instrument performance checks, system monitoring compounds, method blanks and equipment blanks, and duplicate analyses. Results were qualified as estimated detected ("J"), estimated high ("J+"), estimated low ("J-"), estimated non-detected ("UJ"), non-detect ("U"), or questionable ("X"), based on the guidelines referenced above.

The following sections outline the criteria which were evaluated for data validity.
Data Validation Qualifiers

Data validation qualifiers were assigned to analytes due to compliance issues. **Table 1** lists the analytes, qualifiers, and compliance failures.

Table 1. Data Qualifiers

Sample ID	Analytes	Qualifier	Compliance Issue
SS-5/DUP SS	Hexane Methylene Chloride Vinyl Acetate	J	Field Duplicate RPD > 30%

2. Sample Receipt

2.1. Pre-sampling Canister Preparation

All canisters used in the sampling were demonstrated by the laboratory to be clean and leak free prior to sample collection with the following exception:

2.2. COC and Field Documentation

The COC and field documentation clearly noted the following required information:

- The Region where the samples were taken,
- The Case number,
- The complete list of samples with information on:
    - Sample locations
    - Sample matrix.
    - QC audit samples.
    - Shipping dates.
    - Laboratories involved.
    - Initial/final canister pressure

The COC documentation includes sample descriptions, date(s) of sampling, starting canister pressure, ending canister temperature and time, laboratory receipt pressure, and canister ID.

Review of the chain of custody (COC) form and log-in documentation indicates that all the samples were collected on November 18, 2025 and were delivered November 20, 2025 to the laboratory. The samples were delivered by Federal Express (the courier used to deliver the samples to the laboratory). The samples were shipped appropriately; the pressure upon receipt was acceptable for the detection limits (DL) requested as noted in **Table 2**. There were no compliance issues noted at log-in.

Table 2. Summary of Summa Canister Pressures
November 18, 2025 Sampling Event

Sample Type	Sample Name	Lab SDG	Receipt Vac./Pres.	Acceptable Pressure?
Soil Vapor Comp.	SS-5	**JE23793-1**	6.5	Yes
Indoor Air Comp.	IA-5	**JE23793-2**	4.5	Yes
Indoor Air Comp.	IA-6	**JE23793-3**	4	Yes
Soil Vapor Comp.	SS-6	**JE23793-4**	5.5	Yes
Indoor Air Comp.	DUP IA	**JE23793-6**	6	Yes
Soil Vapor Comp.	SS-7	**JE23790-1**	5	Yes
Indoor Air Comp.	IA-7	**JE23790-2**	5	Yes
Soil Vapor Comp.	SS-8	**JE23790-3**	4.5	Yes
Indoor Air Comp.	IA-8	**JE23790-4**	4.5	Yes
Soil Vapor Comp.	SS-1	**JE23791-1**	5.5	Yes
Indoor Air Comp.	IA-1	**JE23791-2**	6	Yes
Soil Vapor Comp.	SS-2	**JE23791-3**	5.5	Yes
Indoor Air Comp.	IA-2	**JE23791-4**	1.5	Yes
Indoor Air Comp.	IA-4	**JE23789-4**	6	Yes
Soil Vapor Comp.	SS-4	**JE23789-3**	1.5	Yes
Soil Vapor Comp.	DUP SS	**JE23793-5**	6	Yes
Indoor Air Comp.	IA-3	**JE23789-2**	6	Yes
Soil Vapor Comp.	SS-3	**JE23789-1**	6	Yes
Ambient Air	OA2	**JE23794-2**	3.5	Yes
Ambient Air	OA1	**JE23794-1**	3.5	Yes

3. Validation Criteria

3.1. Initial Calibration and Continuing Calibration Criteria

There were ten calibration standards utilized in the initial VOC calibration on November 6 and November 7, 2025. Initial calibrations standards show acceptable responses within analytical protocol and validation action limits. The initial calibration verification standard returned recoveries within project and EPA criteria.

Continuing calibration verification (CCV) responses associated with reported detections were within the required variance per laboratory-established limits (%D = ± 30%) for accurate data, with the following exception:

- JE23789:
  - Acetonitrile CCV recovered high – no detections. High bias does not affect non-detect results, no qualifiers required

3.2. Evaluating Instrument Performance Check Results

The instrument performance check standard should be analyzed before calibration standards and then as required by the analytical method. Method TO-15 requires the analysis and evaluation of the mass spectrum of BFB every 24 hours following the initial run. GC/MS instrument performance check results were reported before each calibration and within 24 hours of each site sample instrument analysis. Abundance acceptance criteria employed by SGS for performance check compound Bromofluorobenzene (BFB) met ion abundance acceptance criteria provided in Table 14 of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review as presented in **Table 3**. GES verified that ion abundance results were within each set of acceptance criteria provided in **Table 3**.

Table 3: BFB Ion Abundance Acceptance Criteria

Mass	Ion Abundance Criteria
50	8.0 to 40.0% of m/e 95
75	30.0 to 66.0% of m/e 95
95	Base Peak, 100% Relative Abundance
96	5.0 to 9.0% of m/e 95
173	Less than 2.0% of m/e 174
174	50.0 to 120.0% of m/e 95
175	4.0 to 9.0% of m/e 174
176	93.0 to 101.0% of m/e 174
177	5.0 to 9.0% of m/e 176

3.3. Method Blank Samples

3.3.1. TO-15

TO-15 laboratory method blanks were reported at the recommended frequency of one per analytical batch or one per 20 samples. Method blank results were reported as non-detect by the laboratory. Using raw data, GES verified that all analytes were non-detect in the method blank samples. No qualifications were required based on method blank results.

3.4. Laboratory Accuracy

Laboratory accuracy is a measure of system bias and can be measured by evaluating laboratory control samples and deuterated monitoring compounds (DMC) percent recoveries.

3.4.1. TO-15 LCS

LCS samples were analyzed with the samples at the SOP-required frequency and were reported using TO-15 methodology. The analytical laboratory had established in-house LCS performance criteria (recovery limits) for evaluation of LCS recovery results prior to analysis of samples. Percent recoveries for the analytes in the LCS pair associated with the site samples were within 70% to 130%.

3.4.2. TO-15 Deuterated Monitoring Compounds

DMCs were run with the samples according to the USEPA Region 2 required usage of DMCs for Method TO-15 (USEPA Region 9, 2000). Although not required, the analytical laboratory established in-house performance criteria (recovery limits) for evaluation of DMC recovery results prior to analysis of samples. Upon review by GES personnel, all DMCs were verified to be within the laboratory-provided criteria for1,2-Dichloroethane-4-bromofluorobenzene (65% to 128%). No qualifications were required due to DMS recoveries.

3.5. Precision, Measured by Relative Percent Differences (RPDs)

The sample locations IA-6 and SS-5 was collected in duplicate. The RPDs for the duplicate analysis were calculated for all analytes where both concentrations were greater than 5 times the reporting limit. The calculations and resultant RPDs are noted below.

Table 4. Field Duplicate Precision
November 18, 2025 Sampling Event

Analyte (µg/m3)	IA-6	DUP IA	RPD <30%	Acceptable? Yes/No
Acetone (2-Propanone)	2,200	2,800	24.0	Yes
1,3-Butadiene	0.53	ND	NC	Yes
Benzene	2.0	1.9	5.1	Yes
Chloroform	2.8	1.9	Nc	Yes
Chloromethane	1.2	1.2	0.0	Yes
Carbon tetrachloride	1.0	0.63	NC	Yes
Dichlorodifluoromethane	2.6	2.6	0.0	Yes
Ethanol	1,220	1,100	10.3	Yes
Ethyl Acetate	71.6	94.7	27.8	Yes
Heptane	11	12	8.7	Yes
Hexane	0.85	0.88	3.5	Yes
Isopropyl Alcohol	90.0	90.9	1.0	Yes
Methylene chloride	1.6	1.1	NC	Yes
Methyl ethyl ketone	1.5	1.6	6.5	Yes
Methylmethacrylate	28	27	3.6	Yes
Tertiary Butyl Alcohol	1.3	1.2	8.0	Yes
Tetrachloroethylene	1.2	0.59	NC	Yes
Toluene	2.7	2.3	16.0	Yes
Trichlorofluoromethane	4.0	4.2	4.9	Yes
m,p-Xylene	0.78	0.74	5.3	Yes
Xylenes (total)	1.1	1	9.5	Yes

Table 4. Field Duplicate Precision (continued)
November 18, 2025 Sampling Event

Analyte (µg/m3)	SS-5	DUP SS	RPD <30%	Acceptable? Yes/No
Acetone (2-Propanone)	675	758	11.6	Yes
Benzene	1.5	1.5	0.0	Yes
Chloroform	1.5	1.4	6.9	Yes
Chloromethane	0.85	1.1	25.6	Yes
Dichlorodifluoromethane	2.6	2.4	8.0	Yes
m-Dichlorobenzene	1.6	1.3	20.7	Yes
Ethanol	969	929	4.2	Yes
Ethyl Acetate	52.9	56.9	7.3	Yes
Heptane	25	ND	NC	Yes
Hexane	1.3	1.9	37.5	No
Isopropyl Alcohol	47.9	44.5	7.4	Yes
Methylene chloride	1.4	2.2	44.4	No
Methyl ethyl ketone	4.1	4.4	7.1	Yes
Methylmethacrylate	9.8	9.4	4.2	Yes
Propylene	ND	1.1	NC	Yes
Tertiary Butyl Alcohol	7.3	8.2	11.6	Yes
Tetrachloroethylene	11	11	0.0	Yes
Toluene	3.0	3.0	0.0	Yes
Trichloroethylene	17	16	6.1	Yes
Trichlorofluoromethane	16	15	6.5	Yes
Vinyl Acetate	3.0	9.1	100.8	No
m,p-Xylene	2.4	2.5	4.1	Yes
o-Xylene	1.1	1.1	0.0	Yes
Xylenes (total)	3.5	3.6	2.8	Yes

NC: not calculated
ND: not detected
E: above calibration range, concentration is not accurate or precise

Laboratory duplicates using site samples, where analyte concentrations fell within the calibration range and were at least 5x the RL, had precision reported within laboratory criteria with exceptions noted in the table above. Data associated with out-of-specification RPDs are qualified as estimated "J" and noted in **Table 1**.

4. Data Package Completeness

NYSDEC Category B deliverables were included in the laboratory data package.

Please do not hesitate to contact me if you have comments or questions regarding this report.



Bonnie Janowiak, Ph.D.

NRCC Environmental Chemist

Appendix F – NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York

Soil Vapor / Indoor Air Matrix A

May 2017

Analytes Assigned:
Trichloroethene (TCE), *cis*-1,2-Dichloroethene (*c*-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), Carbon Tetrachloride

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 0.2	0.2 to < 1	1 and above
< 6	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX A

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix B

May 2017

Analytes Assigned:
Tetrachloroethene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), Methylene Chloride

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 3	3 to < 10	10 and above
< 100	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
100 to < 1,000	4. No further action	5. MONITOR	6. MITIGATE
1,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX B

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix C

May 2017

Analytes Assigned:
Vinyl Chloride

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)	
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 0.2	0.2 and above
< 6	1. No further action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX C

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix D

February 2024

Analytes Assigned:
Benzene, ethylbenzene, naphthalene, cyclohexane, isooctane (2,2,4-trimethylpentane), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, *o*-xylene

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 2	2 to < 10	10 and above
< 60	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
60 to < 600	4. No further action	5. MONITOR	6. MITIGATE
600 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX D

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix E

February 2024

Analytes Assigned:
m,p-xylene, heptane, hexane

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 6	6 to < 20	20 and above
< 200	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
200 to < 2,000	4. No further action	5. MONITOR	6. MITIGATE
2,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX E

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix F

February 2024

Analytes Assigned:
Toluene

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 10	10 to < 50	50 and above
< 300	1. No Further Action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
300 to < 3,000	4. No Further Action	5. MONITOR	6. MITIGATE
3,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX F

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.